

Pantheon Report

Generated at 2019-09-18 17:59:26 (UTC).

Data path: Brazil on p4p1 (*remote*) → AWS Brazil 1 on ens5 (*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 `gps.ntp.br` and have been applied to correct the timestamps in logs.

System info:

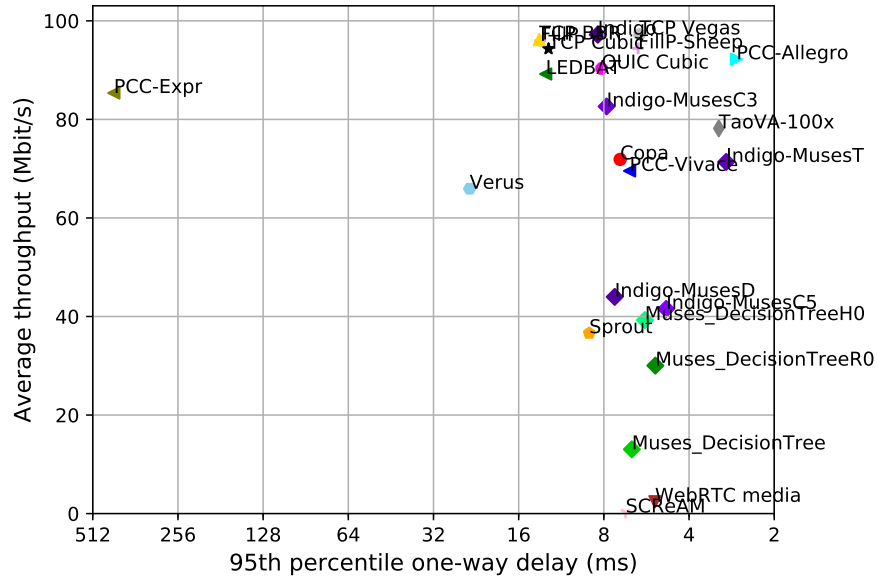
```
Linux 4.15.0-1045-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

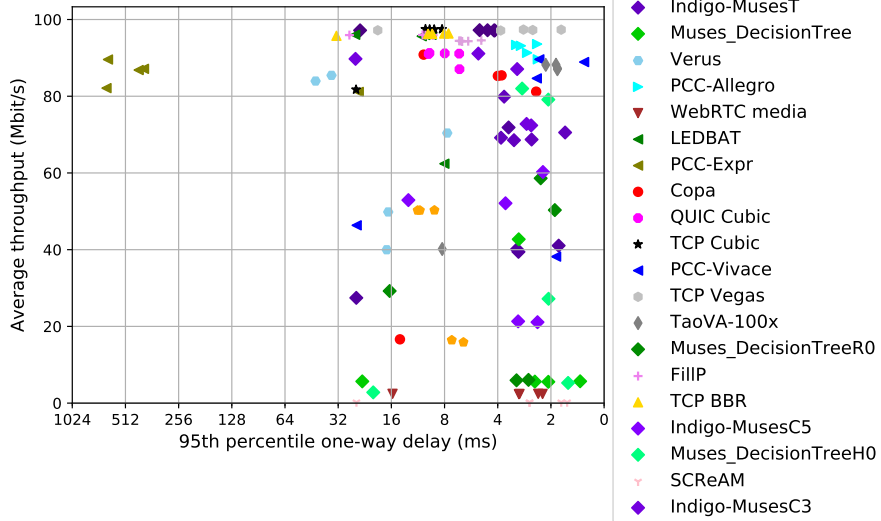
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
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 Brazil to AWS Brazil 1, 5 runs of 30s each per scheme
(mean of all runs by scheme)



test from Brazil to AWS Brazil 1, 5 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate (%)
		flow 1	flow 1	flow 1
TCP BBR	5	96.20	13.53	0.10
Copa	5	71.88	7.01	0.02
TCP Cubic	5	94.33	12.55	0.04
FillP	5	95.93	13.44	0.04
FillP-Sheep	5	94.41	6.06	0.01
Indigo	5	97.18	8.41	0.02
Indigo-MusesC3	5	82.63	7.82	0.01
Indigo-MusesC5	5	41.54	4.82	0.03
Indigo-MusesD	5	43.98	7.32	0.00
Indigo-MusesT	5	71.38	2.96	0.01
LEDBAT	5	89.21	12.84	0.07
Muses_DecisionTree	5	13.05	6.37	0.01
Muses_DecisionTreeH0	5	39.28	5.73	0.01
Muses_DecisionTreeR0	5	30.03	5.26	0.01
PCC-Allegro	5	92.21	2.72	0.01
PCC-Expr	5	85.36	431.27	2.22
QUIC Cubic	5	90.32	8.15	0.02
SCReAM	5	0.22	6.70	0.03
Sprout	5	36.62	9.01	0.05
TaoVA-100x	5	78.17	3.14	0.01
TCP Vegas	5	97.26	5.99	0.01
Verus	5	65.93	23.85	0.09
PCC-Vivace	5	69.54	6.49	0.01
WebRTC media	5	2.39	5.28	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-09-18 15:33:25
End at: 2019-09-18 15:33:55
Local clock offset: -22.665 ms
Remote clock offset: -0.338 ms

Below is generated by plot.py at 2019-09-18 17:47:09

Datalink statistics

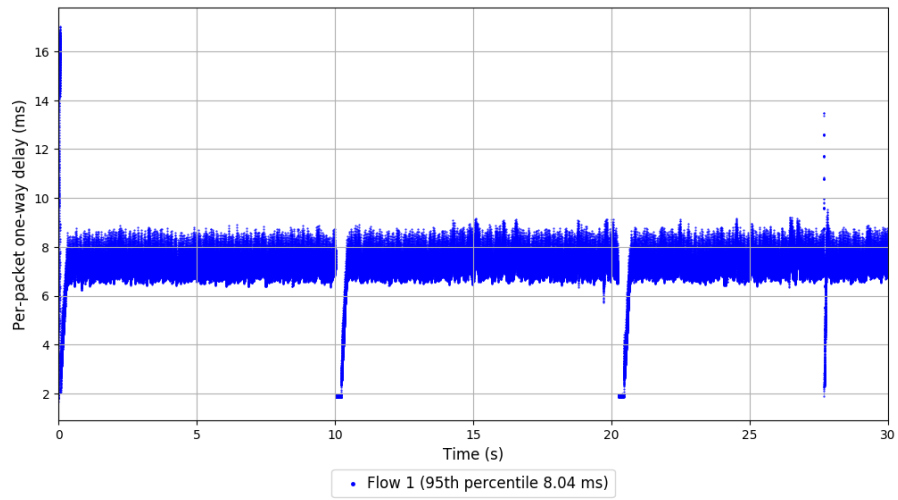
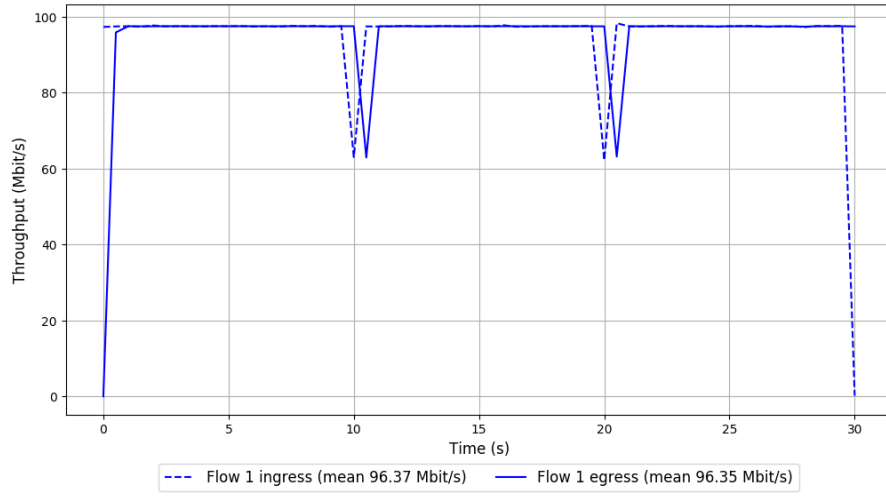
-- Total of 1 flow:

Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 8.037 ms
Loss rate: 0.03%

-- Flow 1:

Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 8.037 ms
Loss rate: 0.03%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-09-18 16:00:19
End at: 2019-09-18 16:00:49
Local clock offset: -25.503 ms
Remote clock offset: 0.033 ms

Below is generated by plot.py at 2019-09-18 17:47:09

Datalink statistics

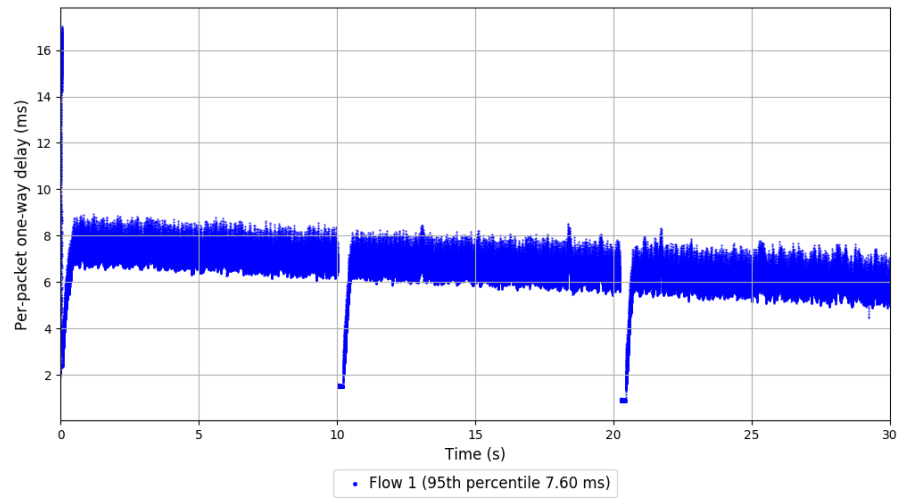
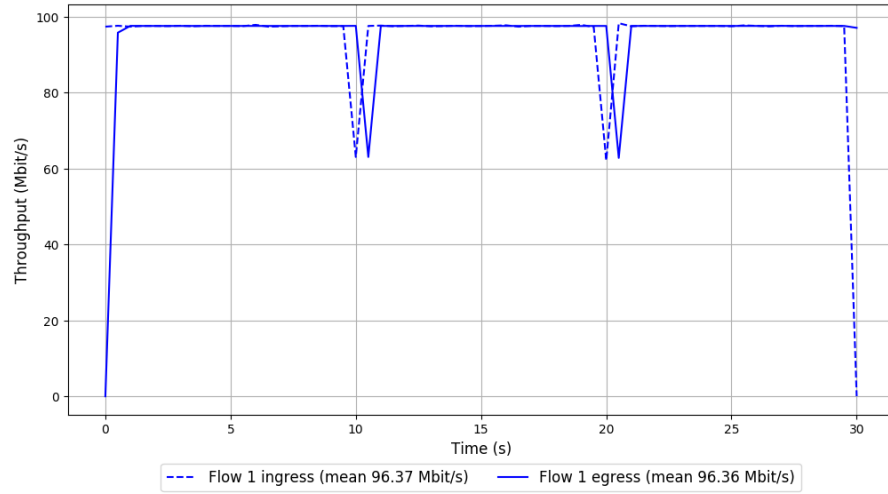
-- Total of 1 flow:

Average throughput: 96.36 Mbit/s
95th percentile per-packet one-way delay: 7.601 ms
Loss rate: 0.03%

-- Flow 1:

Average throughput: 96.36 Mbit/s
95th percentile per-packet one-way delay: 7.601 ms
Loss rate: 0.03%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-09-18 16:27:17

End at: 2019-09-18 16:27:47

Local clock offset: 12.295 ms

Remote clock offset: 0.423 ms

Below is generated by plot.py at 2019-09-18 17:47:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 9.909 ms

Loss rate: 0.17%

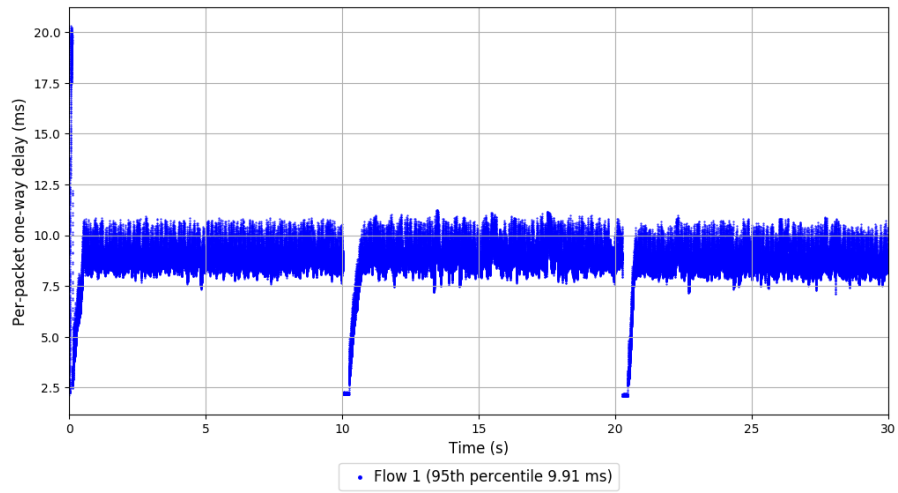
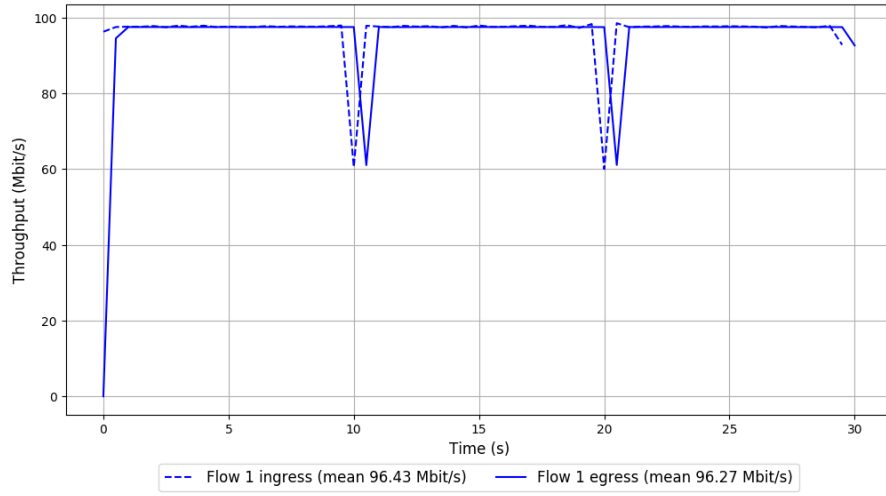
-- Flow 1:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 9.909 ms

Loss rate: 0.17%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-09-18 16:54:20

End at: 2019-09-18 16:54:50

Local clock offset: 6.604 ms

Remote clock offset: 0.763 ms

Below is generated by plot.py at 2019-09-18 17:47:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 9.394 ms

Loss rate: 0.26%

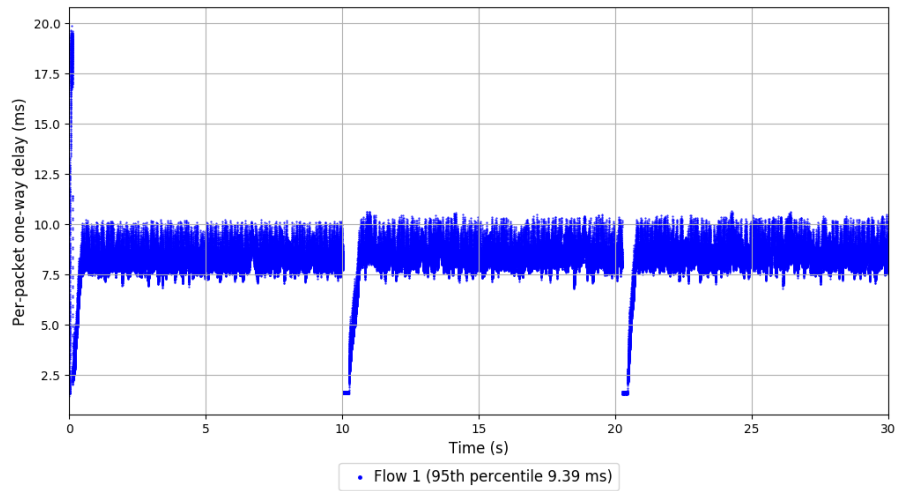
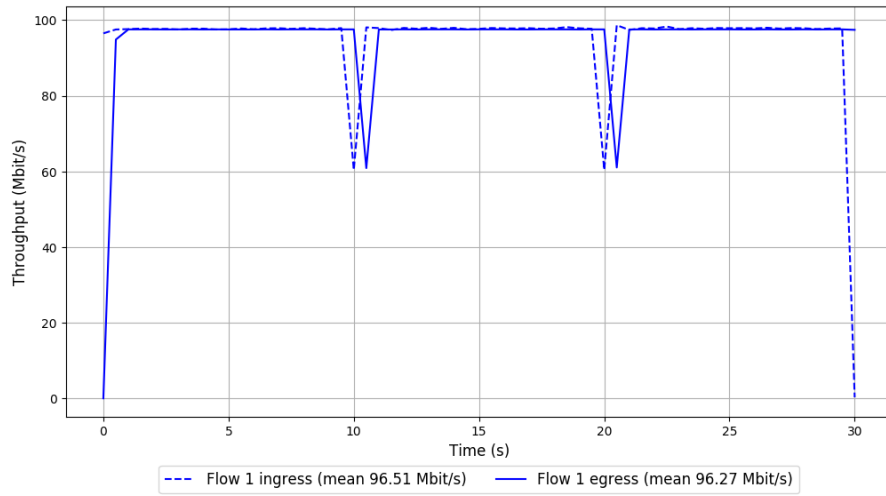
-- Flow 1:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 9.394 ms

Loss rate: 0.26%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-09-18 17:21:09

End at: 2019-09-18 17:21:39

Local clock offset: 27.829 ms

Remote clock offset: 1.022 ms

Below is generated by plot.py at 2019-09-18 17:47:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.75 Mbit/s

95th percentile per-packet one-way delay: 32.730 ms

Loss rate: 0.03%

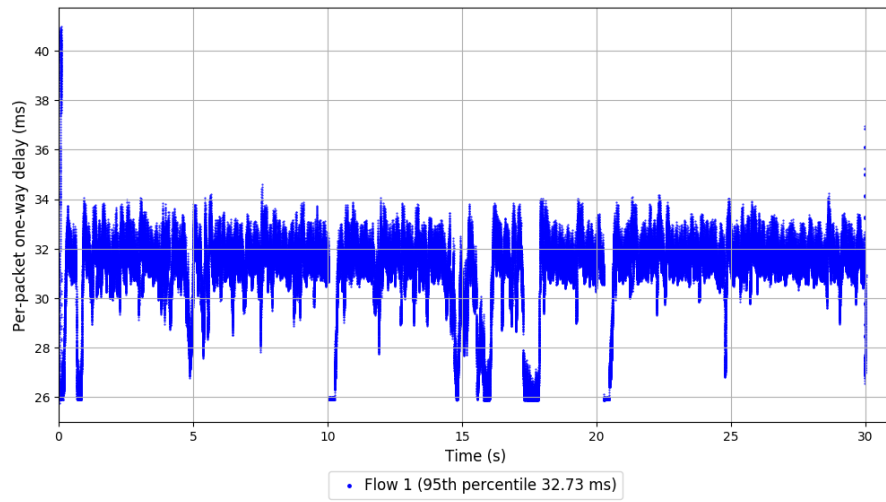
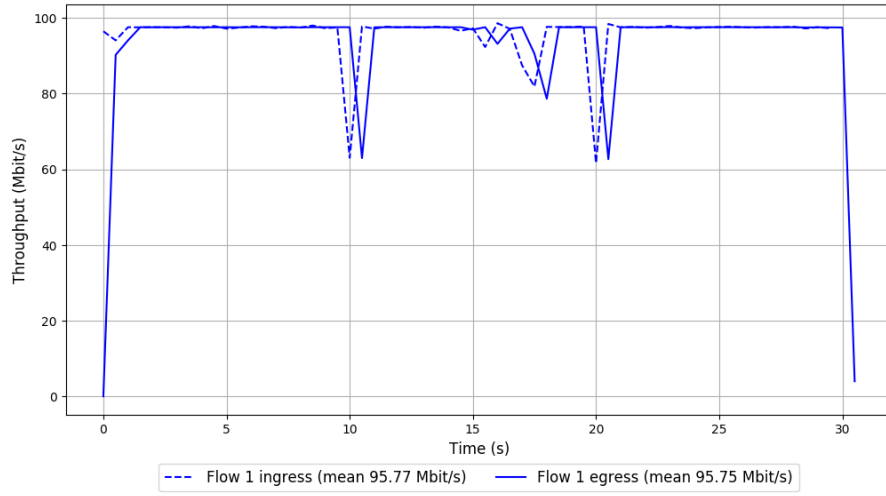
-- Flow 1:

Average throughput: 95.75 Mbit/s

95th percentile per-packet one-way delay: 32.730 ms

Loss rate: 0.03%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-09-18 15:50:09
End at: 2019-09-18 15:50:39
Local clock offset: -24.147 ms
Remote clock offset: -0.151 ms

Below is generated by plot.py at 2019-09-18 17:47:58

Datalink statistics

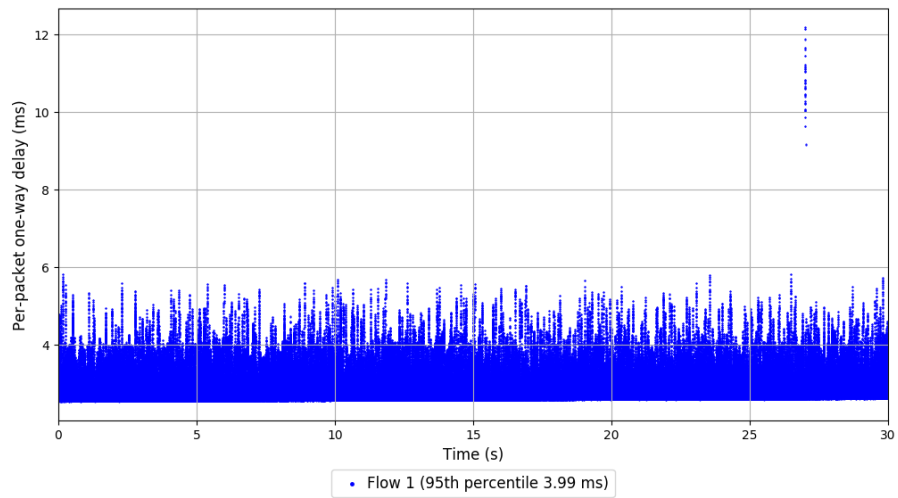
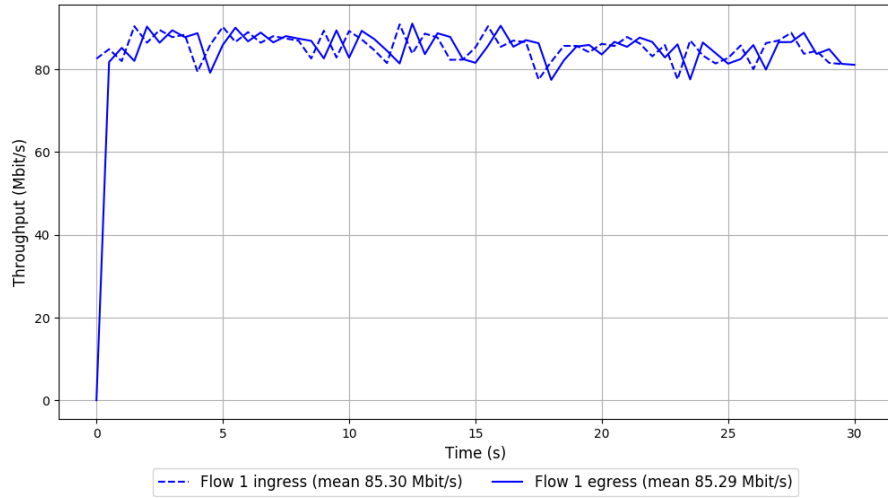
-- Total of 1 flow:

Average throughput: 85.29 Mbit/s
95th percentile per-packet one-way delay: 3.993 ms
Loss rate: 0.01%

-- Flow 1:

Average throughput: 85.29 Mbit/s
95th percentile per-packet one-way delay: 3.993 ms
Loss rate: 0.01%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-09-18 16:17:07

End at: 2019-09-18 16:17:37

Local clock offset: 4.494 ms

Remote clock offset: 0.292 ms

Below is generated by plot.py at 2019-09-18 17:47:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.20 Mbit/s

95th percentile per-packet one-way delay: 2.424 ms

Loss rate: 0.02%

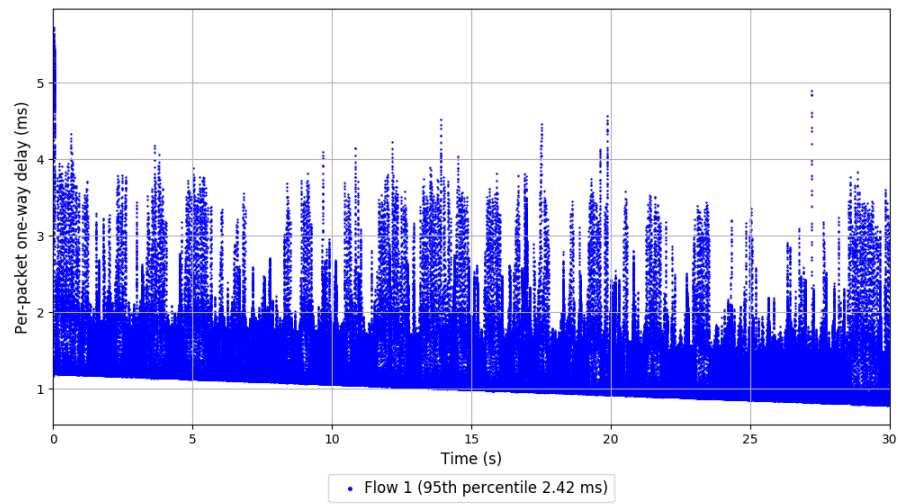
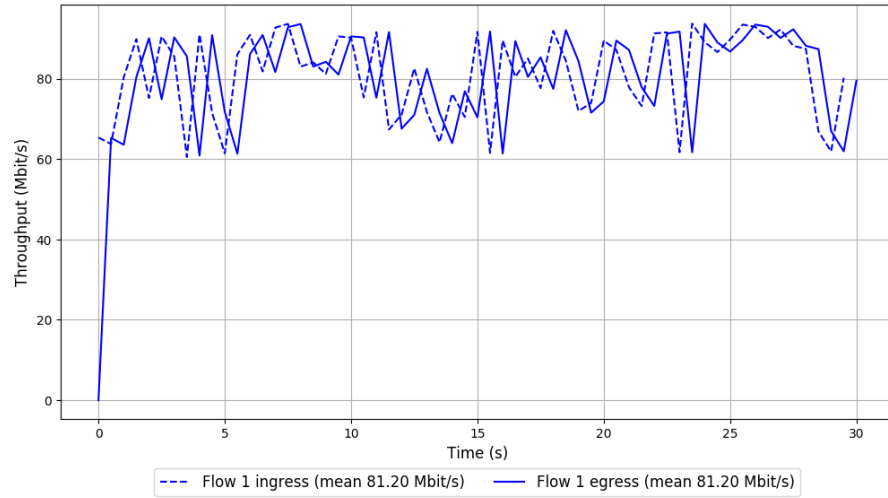
-- Flow 1:

Average throughput: 81.20 Mbit/s

95th percentile per-packet one-way delay: 2.424 ms

Loss rate: 0.02%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-09-18 16:44:08

End at: 2019-09-18 16:44:38

Local clock offset: 6.173 ms

Remote clock offset: 0.587 ms

Below is generated by plot.py at 2019-09-18 17:48:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.84 Mbit/s

95th percentile per-packet one-way delay: 10.506 ms

Loss rate: 0.04%

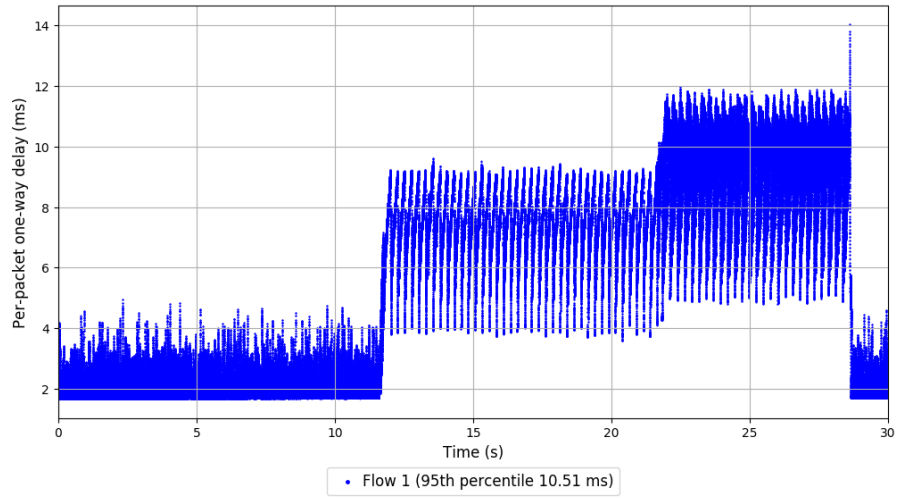
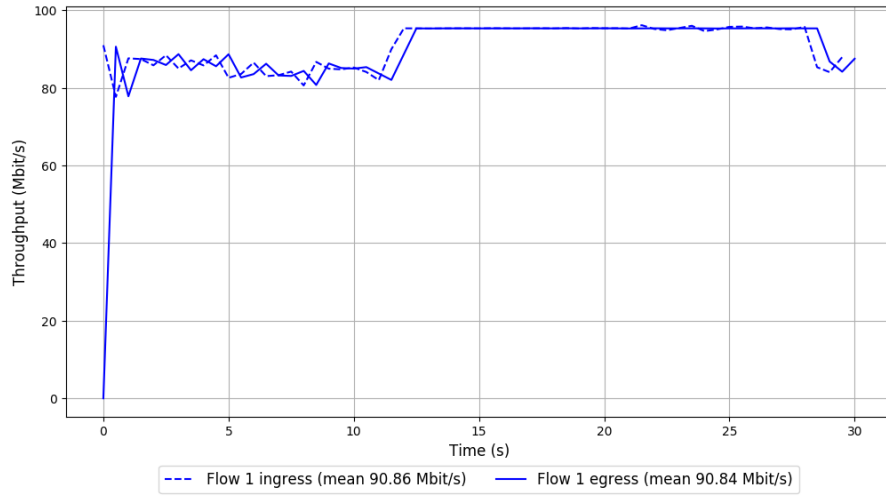
-- Flow 1:

Average throughput: 90.84 Mbit/s

95th percentile per-packet one-way delay: 10.506 ms

Loss rate: 0.04%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-09-18 17:11:06

End at: 2019-09-18 17:11:36

Local clock offset: 3.888 ms

Remote clock offset: 0.896 ms

Below is generated by plot.py at 2019-09-18 17:48:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.63 Mbit/s

95th percentile per-packet one-way delay: 14.308 ms

Loss rate: 0.02%

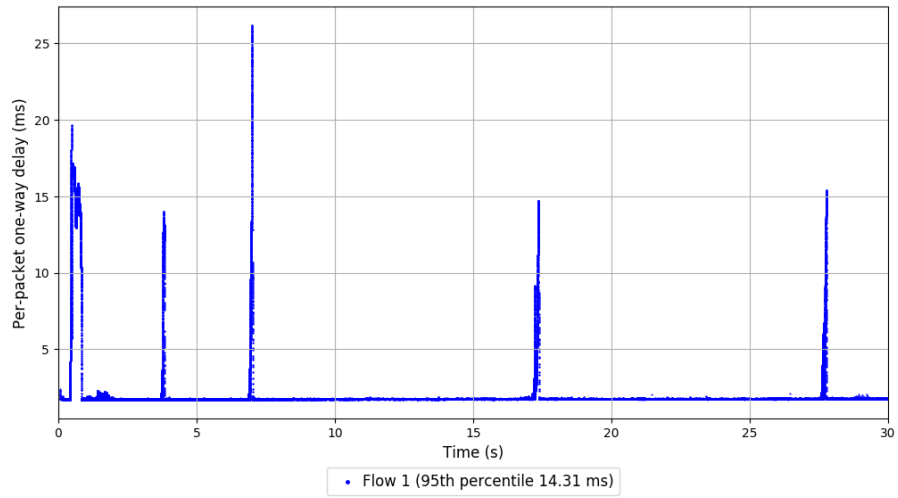
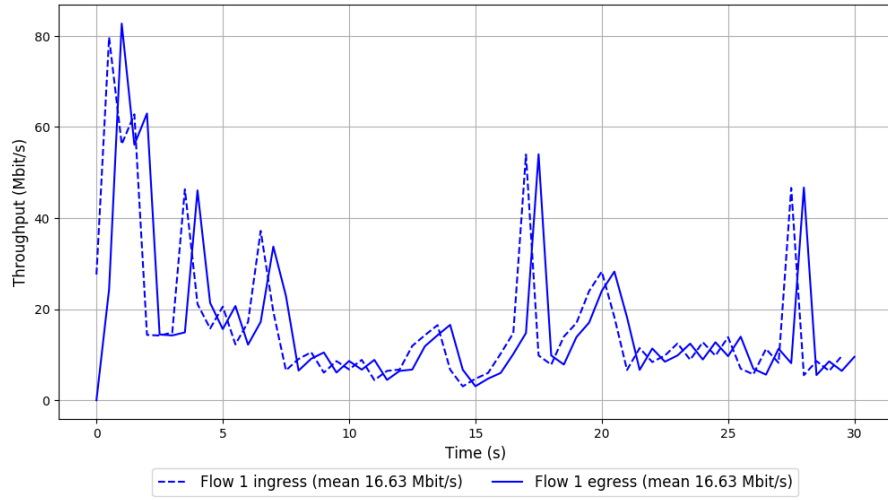
-- Flow 1:

Average throughput: 16.63 Mbit/s

95th percentile per-packet one-way delay: 14.308 ms

Loss rate: 0.02%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-09-18 17:38:00

End at: 2019-09-18 17:38:30

Local clock offset: 4.165 ms

Remote clock offset: 1.293 ms

Below is generated by plot.py at 2019-09-18 17:48:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.44 Mbit/s

95th percentile per-packet one-way delay: 3.805 ms

Loss rate: 0.01%

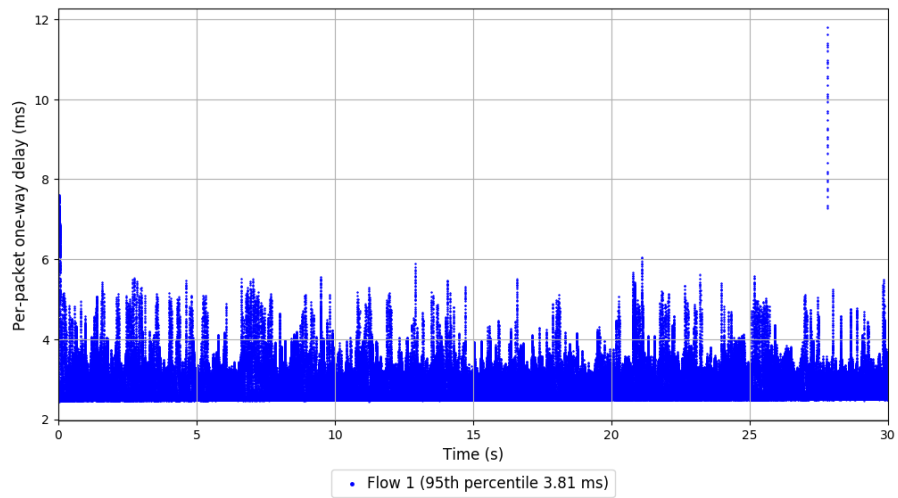
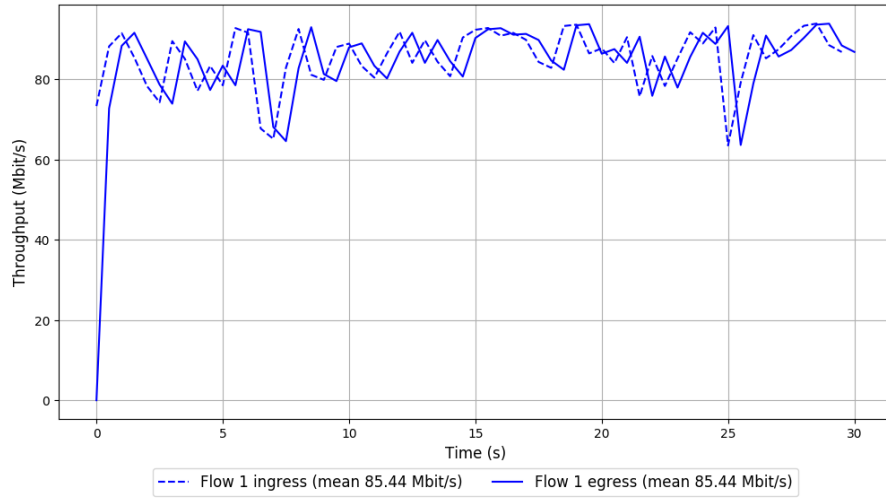
-- Flow 1:

Average throughput: 85.44 Mbit/s

95th percentile per-packet one-way delay: 3.805 ms

Loss rate: 0.01%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-09-18 15:39:01
End at: 2019-09-18 15:39:31
Local clock offset: -23.395 ms
Remote clock offset: -0.366 ms

Below is generated by plot.py at 2019-09-18 17:48:55

Datalink statistics

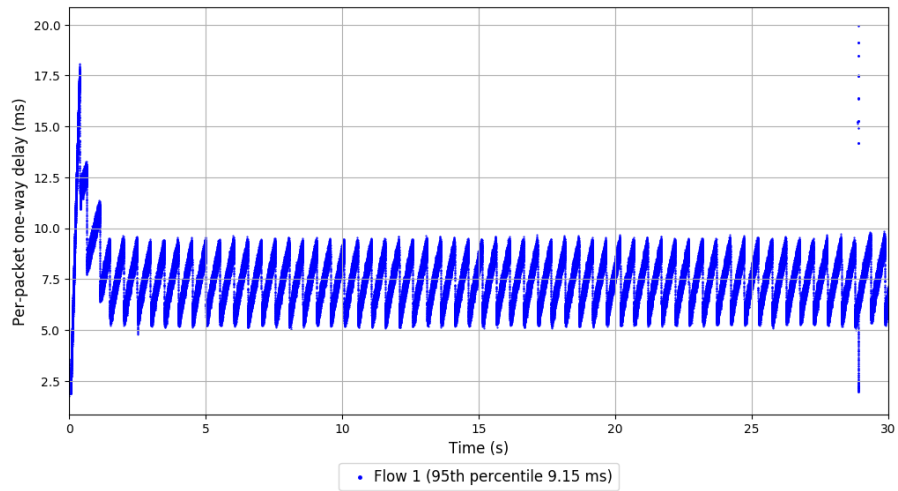
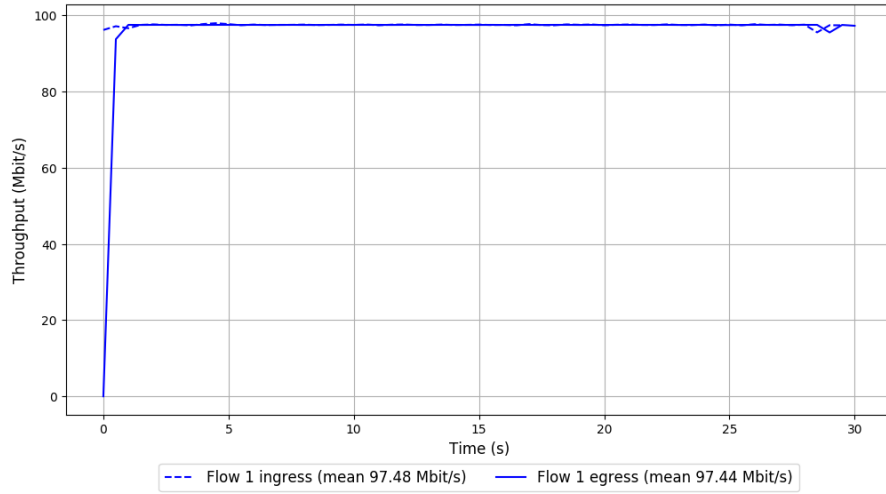
-- Total of 1 flow:

Average throughput: 97.44 Mbit/s
95th percentile per-packet one-way delay: 9.155 ms
Loss rate: 0.05%

-- Flow 1:

Average throughput: 97.44 Mbit/s
95th percentile per-packet one-way delay: 9.155 ms
Loss rate: 0.05%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-09-18 16:05:59

End at: 2019-09-18 16:06:29

Local clock offset: -10.09 ms

Remote clock offset: 0.195 ms

Below is generated by plot.py at 2019-09-18 17:48:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.49 Mbit/s

95th percentile per-packet one-way delay: 8.264 ms

Loss rate: 0.05%

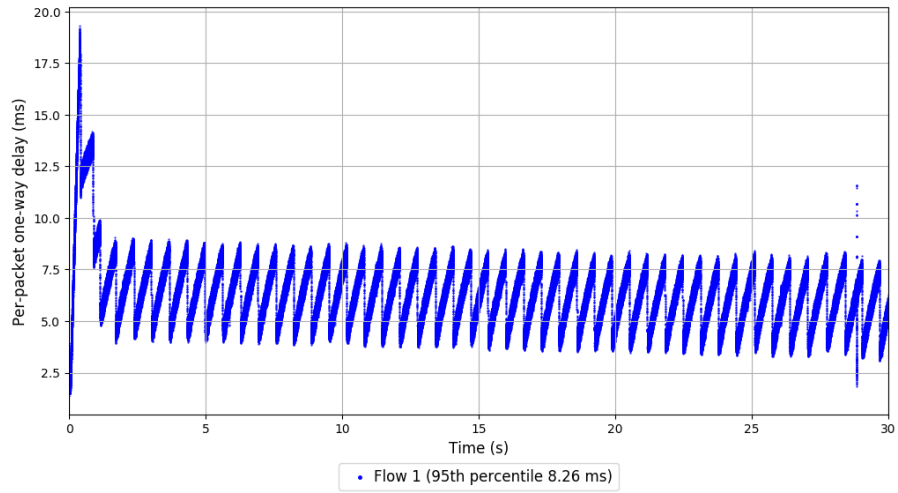
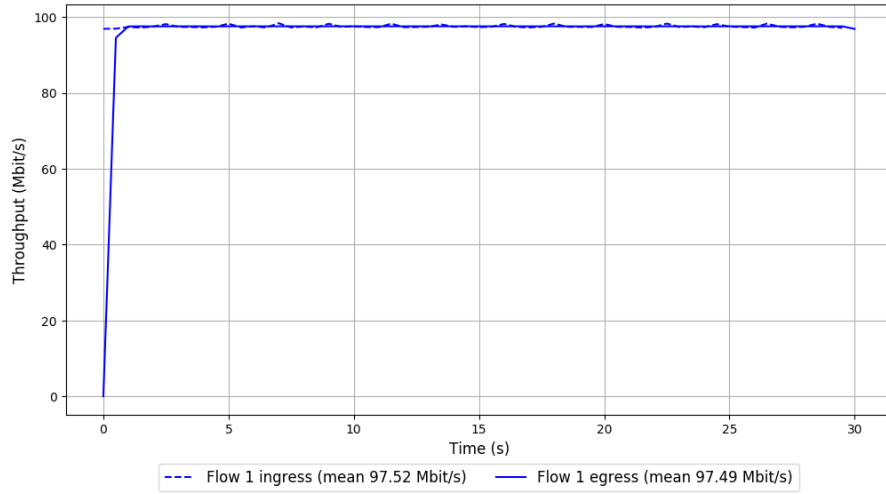
-- Flow 1:

Average throughput: 97.49 Mbit/s

95th percentile per-packet one-way delay: 8.264 ms

Loss rate: 0.05%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-09-18 16:32:58

End at: 2019-09-18 16:33:28

Local clock offset: 11.434 ms

Remote clock offset: 0.502 ms

Below is generated by plot.py at 2019-09-18 17:48:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.51 Mbit/s

95th percentile per-packet one-way delay: 10.258 ms

Loss rate: 0.05%

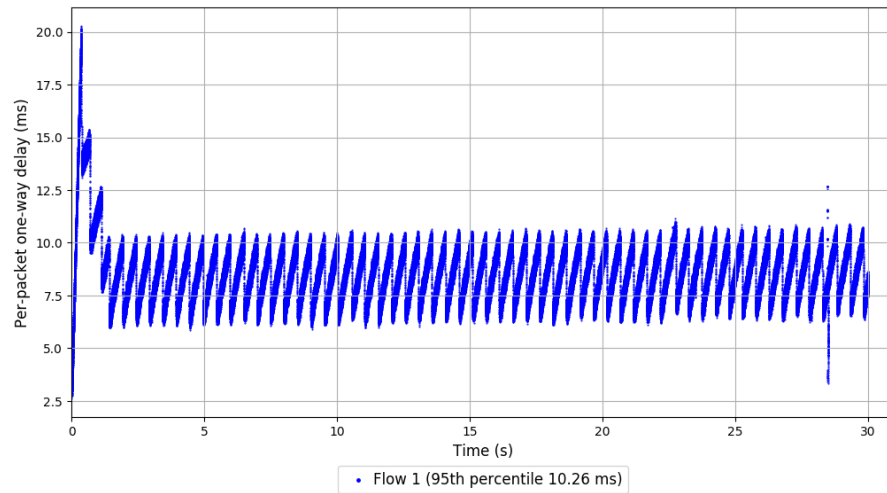
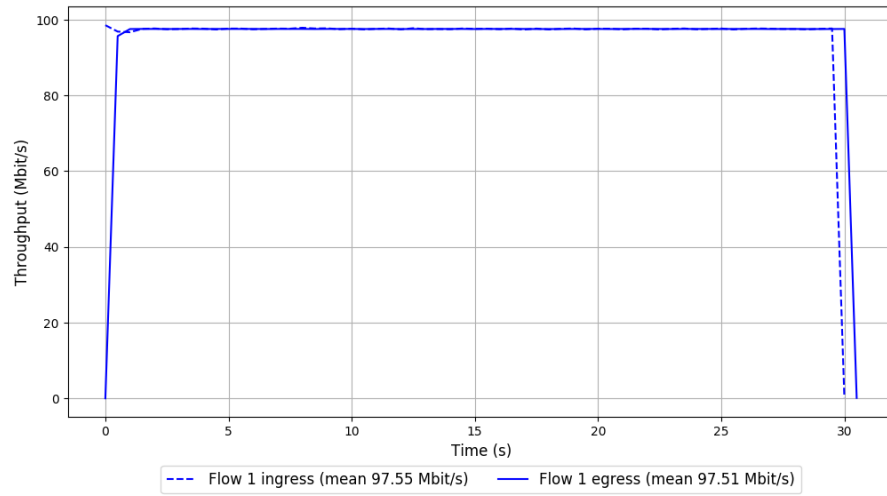
-- Flow 1:

Average throughput: 97.51 Mbit/s

95th percentile per-packet one-way delay: 10.258 ms

Loss rate: 0.05%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-09-18 16:59:59

End at: 2019-09-18 17:00:29

Local clock offset: 8.21 ms

Remote clock offset: 0.724 ms

Below is generated by plot.py at 2019-09-18 17:48:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 9.718 ms

Loss rate: 0.06%

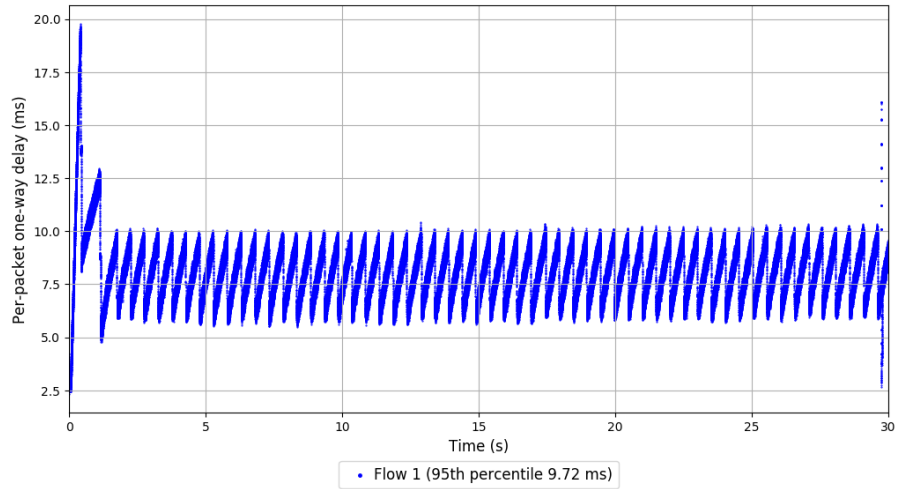
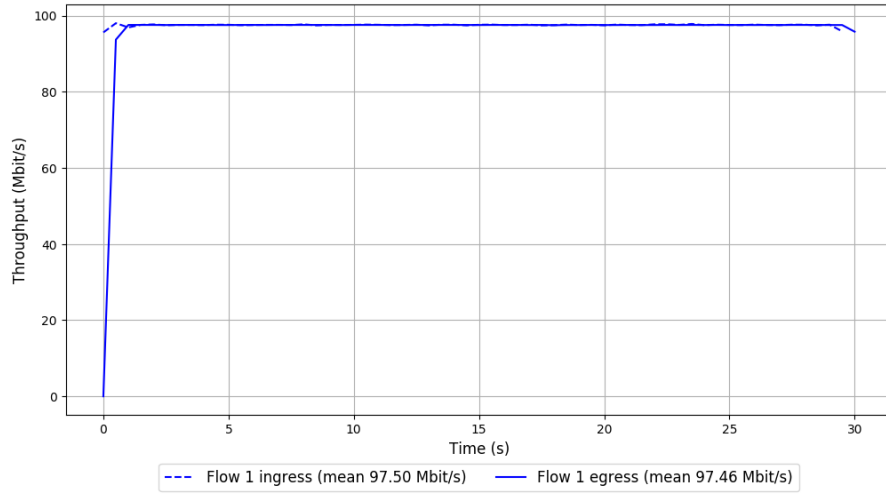
-- Flow 1:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 9.718 ms

Loss rate: 0.06%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-09-18 17:26:52

End at: 2019-09-18 17:27:22

Local clock offset: 21.989 ms

Remote clock offset: 1.081 ms

Below is generated by plot.py at 2019-09-18 17:48:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.74 Mbit/s

95th percentile per-packet one-way delay: 25.348 ms

Loss rate: 0.01%

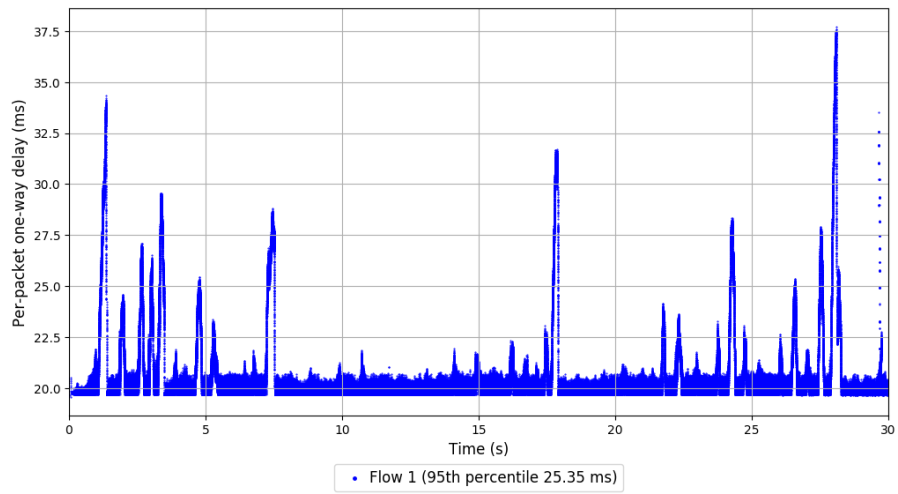
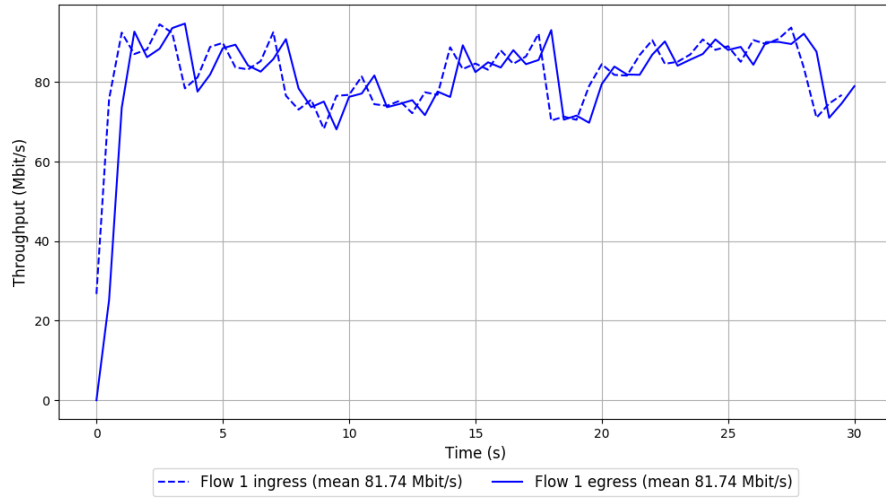
-- Flow 1:

Average throughput: 81.74 Mbit/s

95th percentile per-packet one-way delay: 25.348 ms

Loss rate: 0.01%

Run 5: Report of TCP Cubic — Data Link

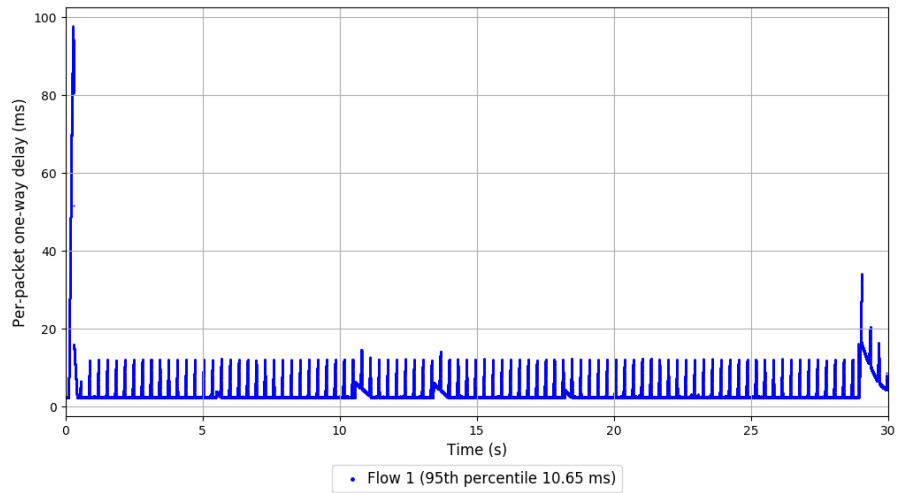
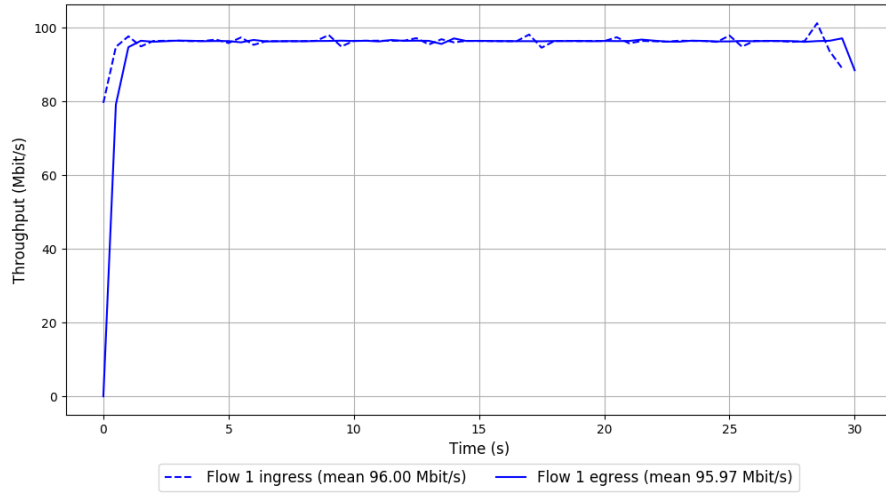


Run 1: Statistics of FillP

Start at: 2019-09-18 15:55:50
End at: 2019-09-18 15:56:20
Local clock offset: -24.982 ms
Remote clock offset: -0.046 ms

Below is generated by plot.py at 2019-09-18 17:49:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 10.655 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 10.655 ms
Loss rate: 0.04%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-09-18 16:22:48

End at: 2019-09-18 16:23:18

Local clock offset: 8.815 ms

Remote clock offset: 0.382 ms

Below is generated by plot.py at 2019-09-18 17:49:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.92 Mbit/s

95th percentile per-packet one-way delay: 9.349 ms

Loss rate: 0.04%

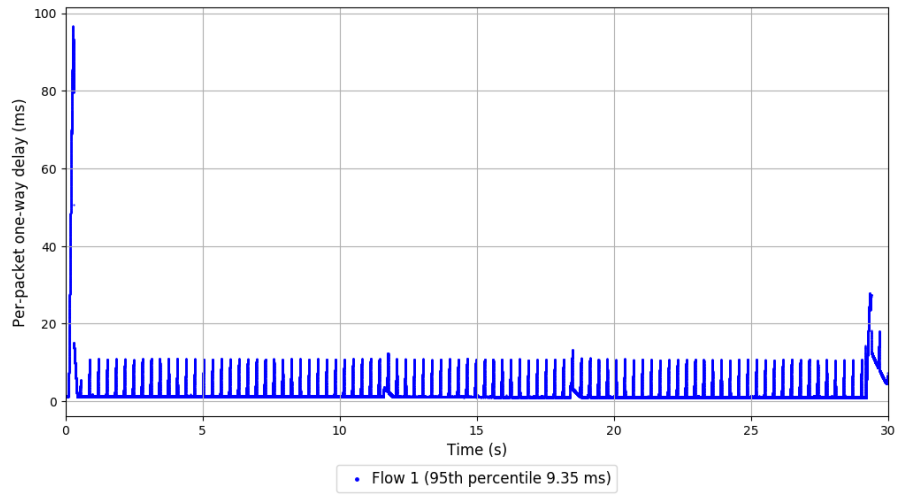
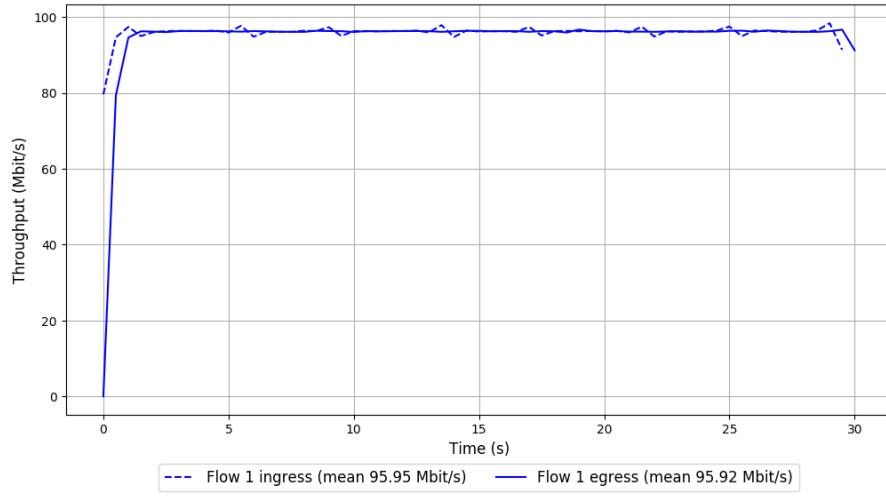
-- Flow 1:

Average throughput: 95.92 Mbit/s

95th percentile per-packet one-way delay: 9.349 ms

Loss rate: 0.04%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-09-18 16:49:50

End at: 2019-09-18 16:50:20

Local clock offset: 6.942 ms

Remote clock offset: 0.582 ms

Below is generated by plot.py at 2019-09-18 17:49:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 10.255 ms

Loss rate: 0.08%

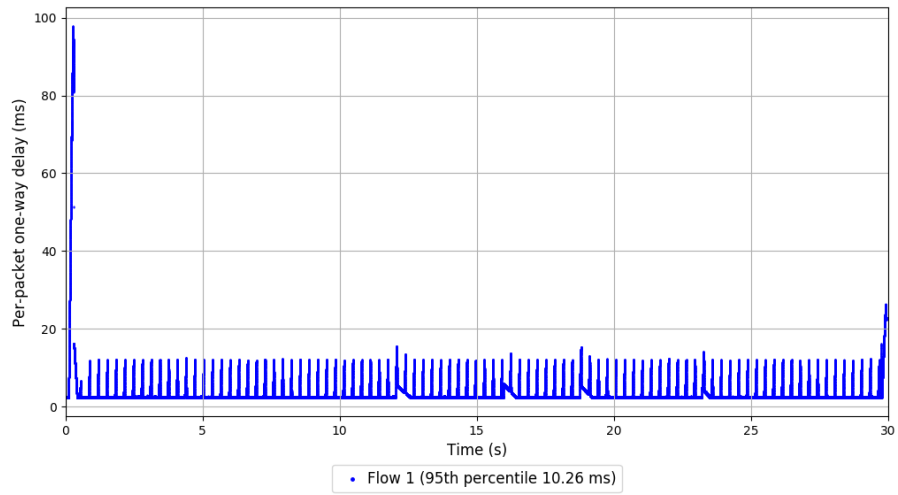
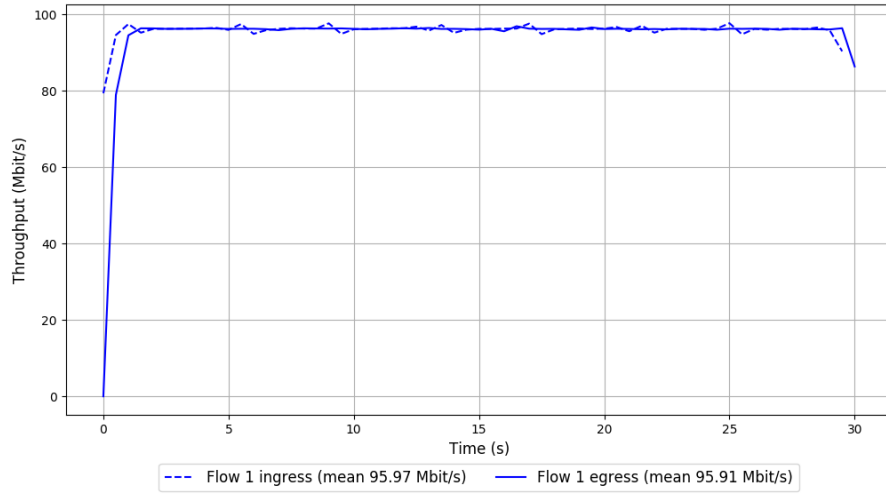
-- Flow 1:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 10.255 ms

Loss rate: 0.08%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-09-18 17:16:43

End at: 2019-09-18 17:17:13

Local clock offset: 3.52 ms

Remote clock offset: 0.964 ms

Below is generated by plot.py at 2019-09-18 17:49:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.92 Mbit/s

95th percentile per-packet one-way delay: 9.288 ms

Loss rate: 0.02%

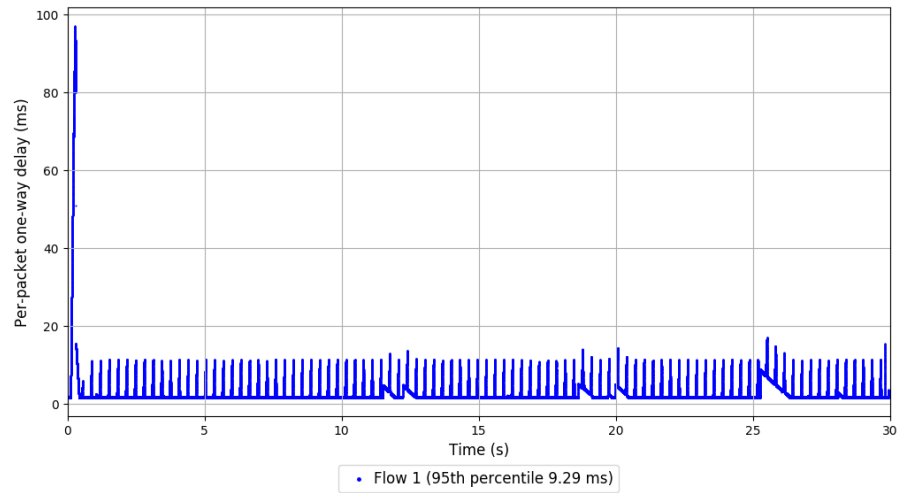
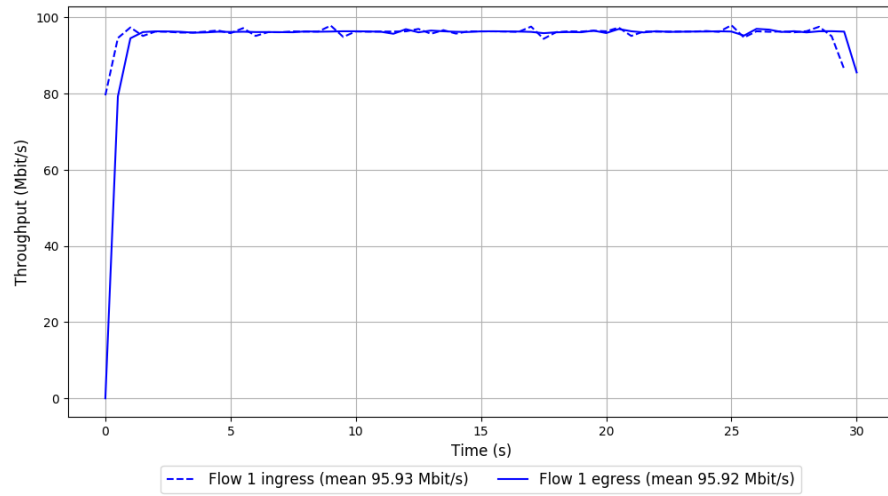
-- Flow 1:

Average throughput: 95.92 Mbit/s

95th percentile per-packet one-way delay: 9.288 ms

Loss rate: 0.02%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-09-18 17:43:40

End at: 2019-09-18 17:44:10

Local clock offset: 21.699 ms

Remote clock offset: 1.449 ms

Below is generated by plot.py at 2019-09-18 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.94 Mbit/s

95th percentile per-packet one-way delay: 27.641 ms

Loss rate: 0.04%

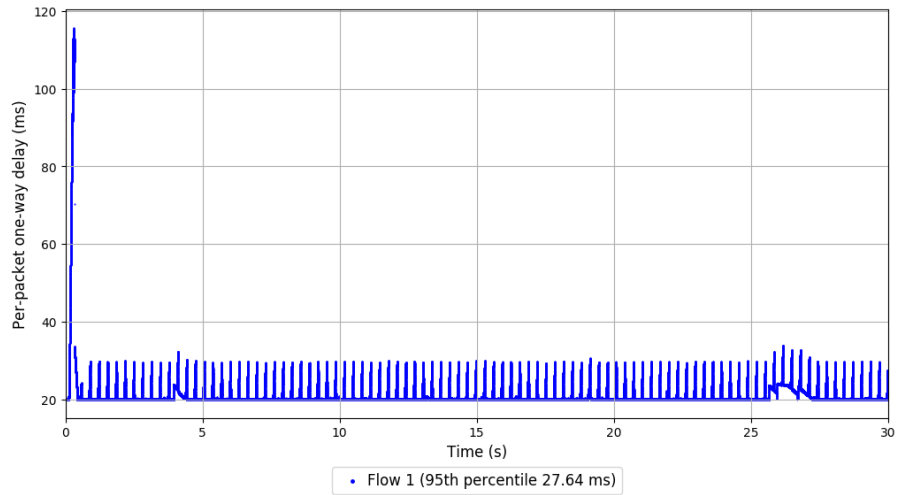
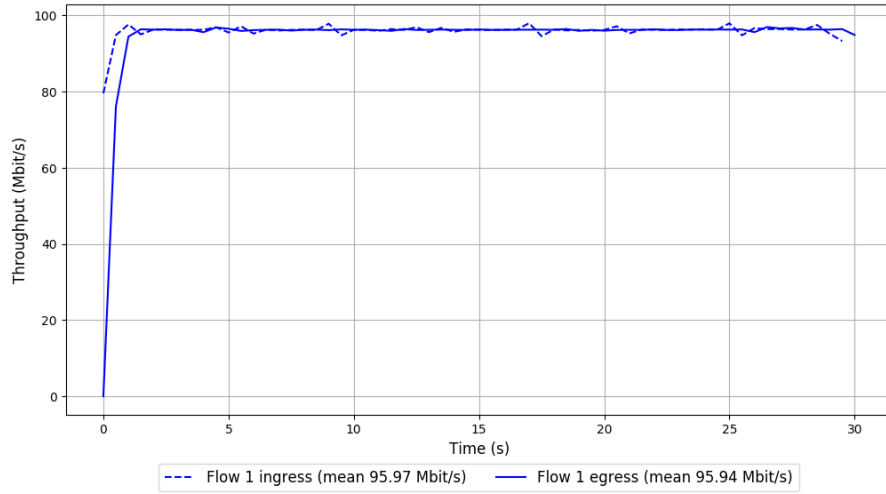
-- Flow 1:

Average throughput: 95.94 Mbit/s

95th percentile per-packet one-way delay: 27.641 ms

Loss rate: 0.04%

Run 5: Report of FillP — Data Link

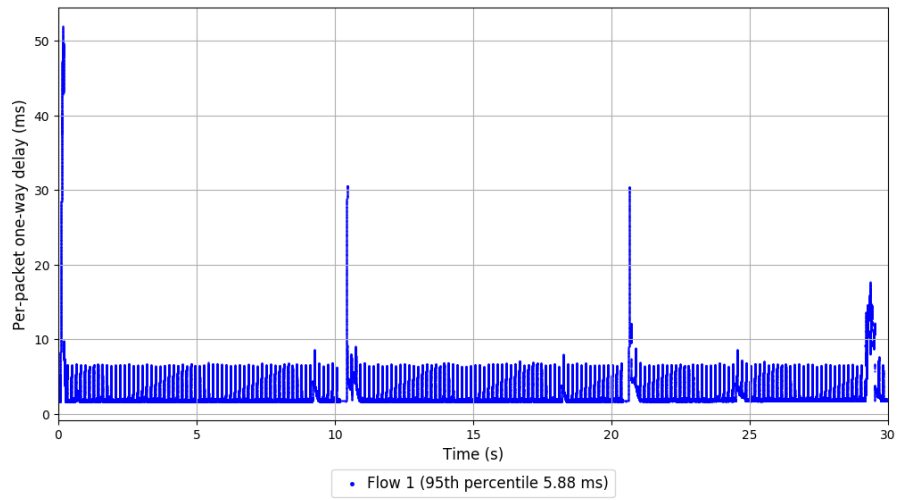
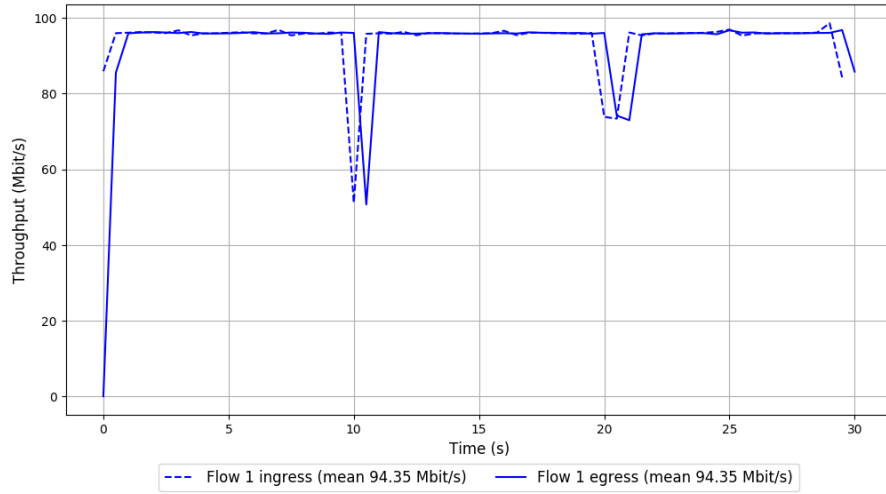


Run 1: Statistics of FillP-Sheep

Start at: 2019-09-18 15:46:47
End at: 2019-09-18 15:47:17
Local clock offset: -24.431 ms
Remote clock offset: -0.173 ms

Below is generated by plot.py at 2019-09-18 17:49:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.35 Mbit/s
95th percentile per-packet one-way delay: 5.878 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 94.35 Mbit/s
95th percentile per-packet one-way delay: 5.878 ms
Loss rate: 0.01%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-09-18 16:13:45

End at: 2019-09-18 16:14:15

Local clock offset: 1.211 ms

Remote clock offset: 0.183 ms

Below is generated by plot.py at 2019-09-18 17:50:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.57 Mbit/s

95th percentile per-packet one-way delay: 4.956 ms

Loss rate: 0.01%

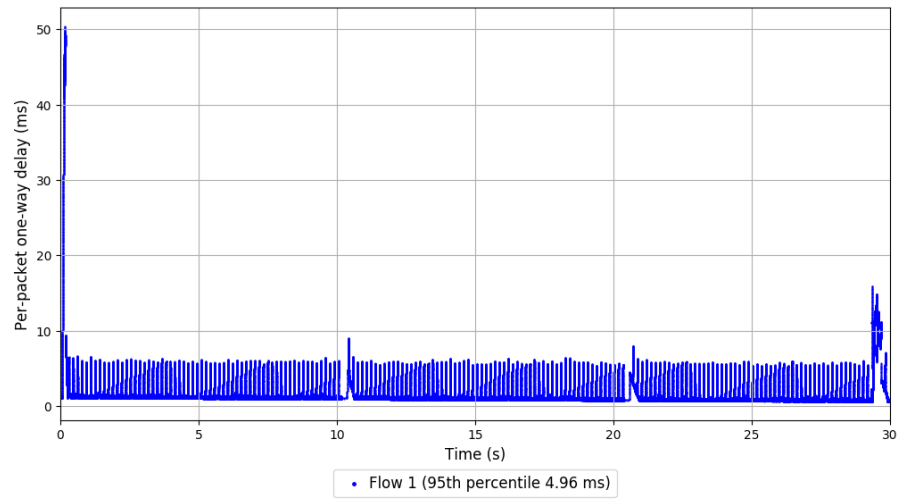
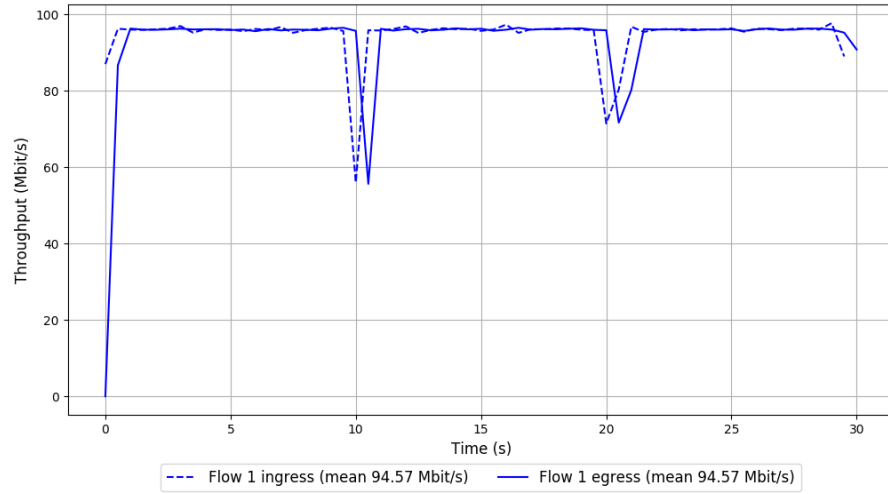
-- Flow 1:

Average throughput: 94.57 Mbit/s

95th percentile per-packet one-way delay: 4.956 ms

Loss rate: 0.01%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-09-18 16:40:45

End at: 2019-09-18 16:41:15

Local clock offset: 7.458 ms

Remote clock offset: 0.548 ms

Below is generated by plot.py at 2019-09-18 17:50:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.43 Mbit/s

95th percentile per-packet one-way delay: 6.607 ms

Loss rate: 0.01%

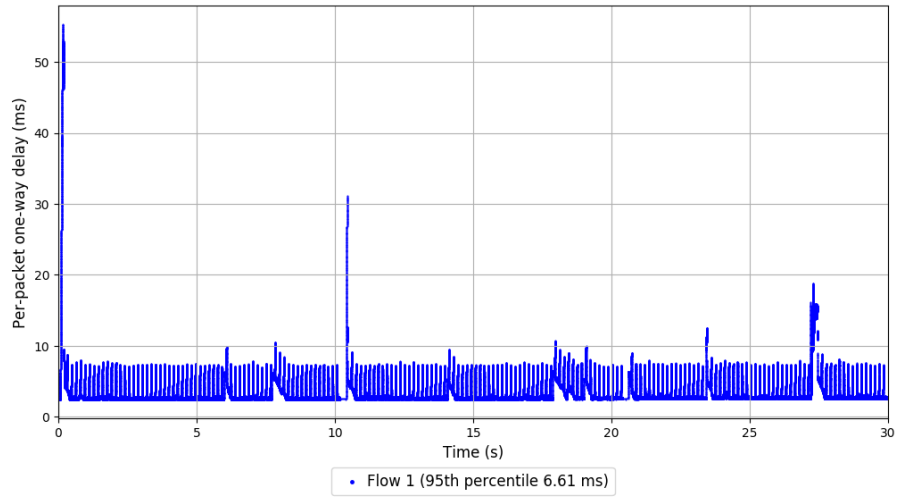
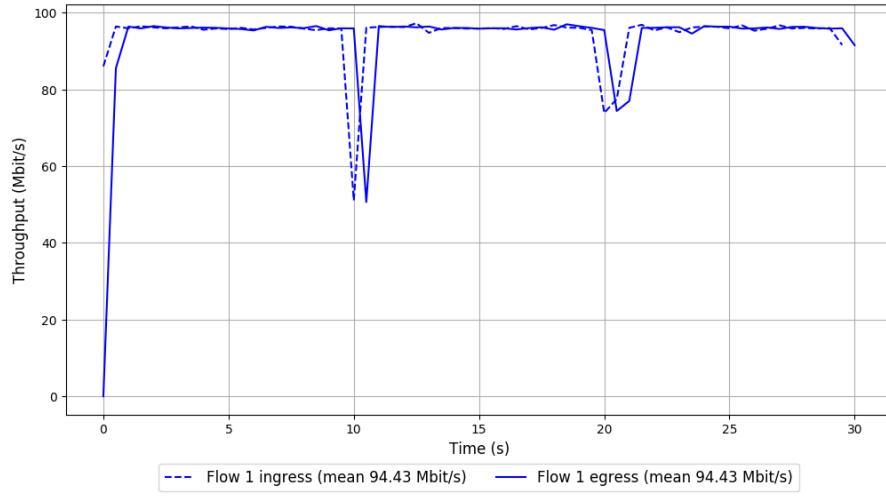
-- Flow 1:

Average throughput: 94.43 Mbit/s

95th percentile per-packet one-way delay: 6.607 ms

Loss rate: 0.01%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-09-18 17:07:44

End at: 2019-09-18 17:08:14

Local clock offset: 5.241 ms

Remote clock offset: 0.751 ms

Below is generated by plot.py at 2019-09-18 17:50:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.42 Mbit/s

95th percentile per-packet one-way delay: 6.480 ms

Loss rate: 0.01%

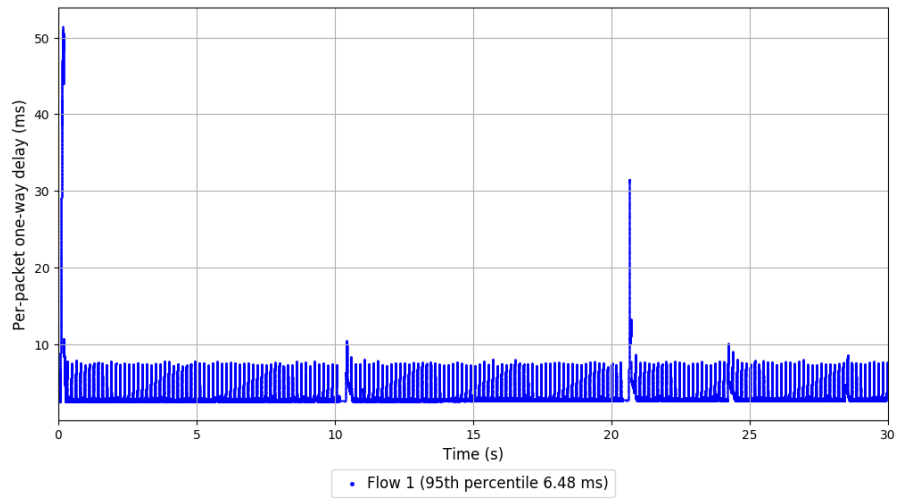
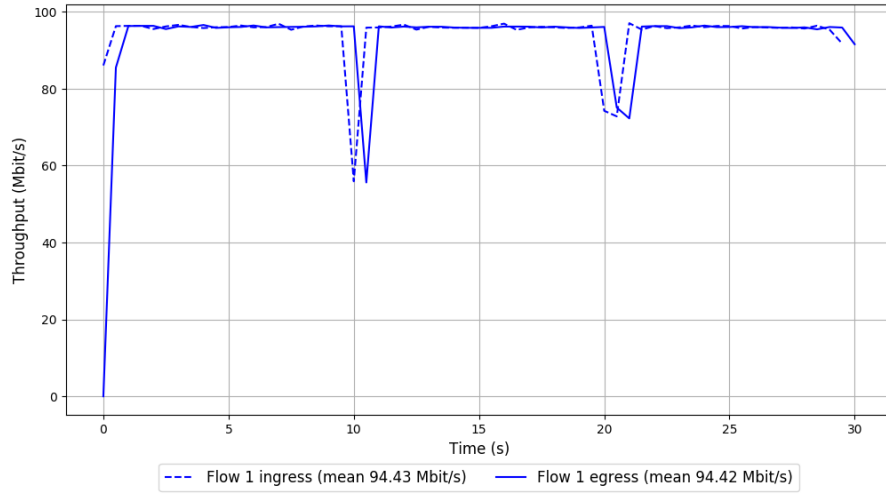
-- Flow 1:

Average throughput: 94.42 Mbit/s

95th percentile per-packet one-way delay: 6.480 ms

Loss rate: 0.01%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-09-18 17:34:37

End at: 2019-09-18 17:35:07

Local clock offset: 4.446 ms

Remote clock offset: 1.156 ms

Below is generated by plot.py at 2019-09-18 17:50:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.27 Mbit/s

95th percentile per-packet one-way delay: 6.361 ms

Loss rate: 0.02%

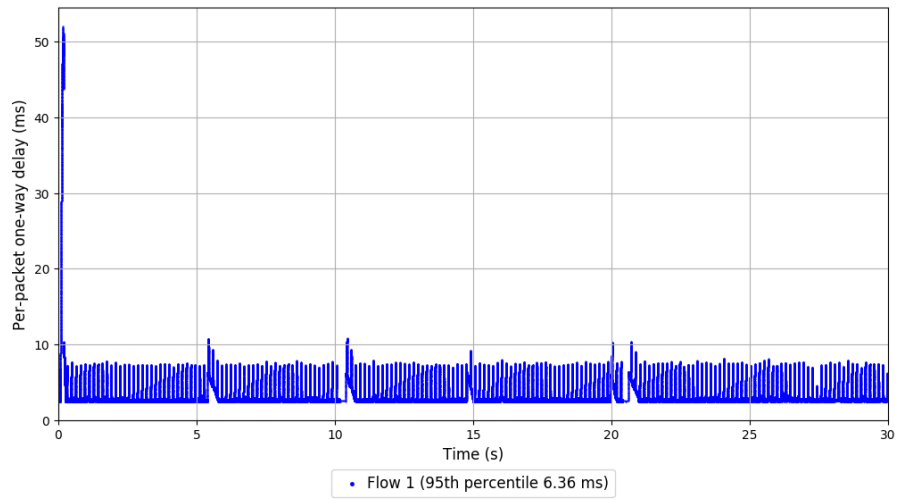
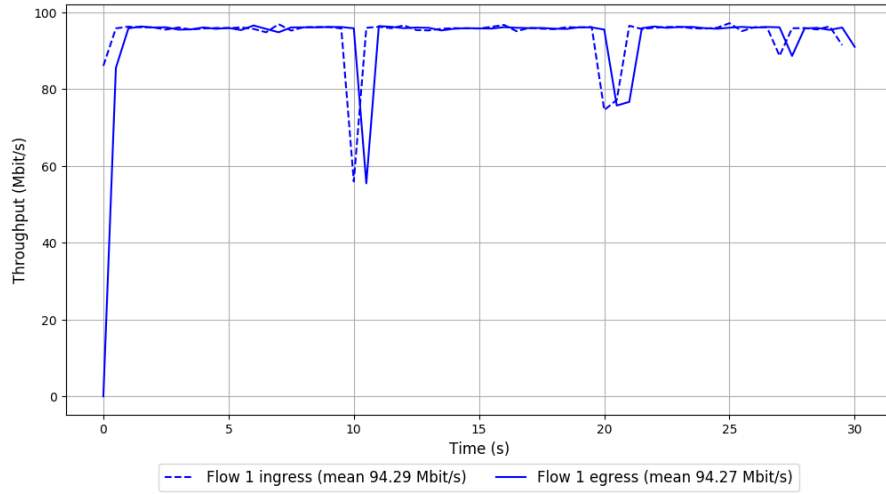
-- Flow 1:

Average throughput: 94.27 Mbit/s

95th percentile per-packet one-way delay: 6.361 ms

Loss rate: 0.02%

Run 5: Report of FillP-Sheep — Data Link

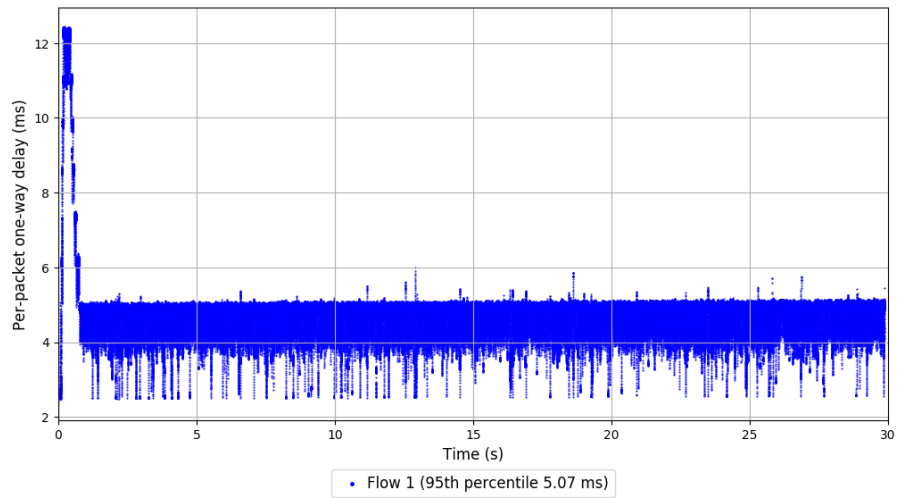
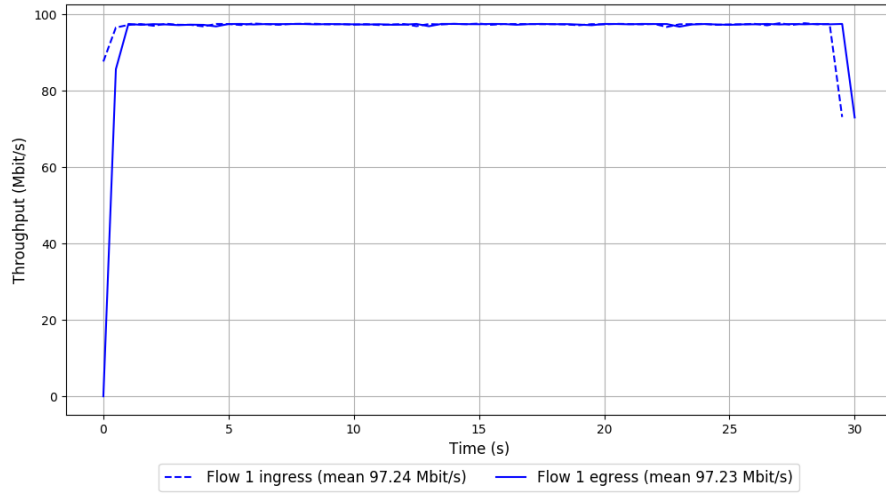


Run 1: Statistics of Indigo

Start at: 2019-09-18 15:54:41
End at: 2019-09-18 15:55:11
Local clock offset: -24.738 ms
Remote clock offset: 0.004 ms

Below is generated by plot.py at 2019-09-18 17:50:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.23 Mbit/s
95th percentile per-packet one-way delay: 5.067 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.23 Mbit/s
95th percentile per-packet one-way delay: 5.067 ms
Loss rate: 0.02%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-09-18 16:21:38

End at: 2019-09-18 16:22:08

Local clock offset: 8.749 ms

Remote clock offset: 0.286 ms

Below is generated by plot.py at 2019-09-18 17:50:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 4.569 ms

Loss rate: 0.02%

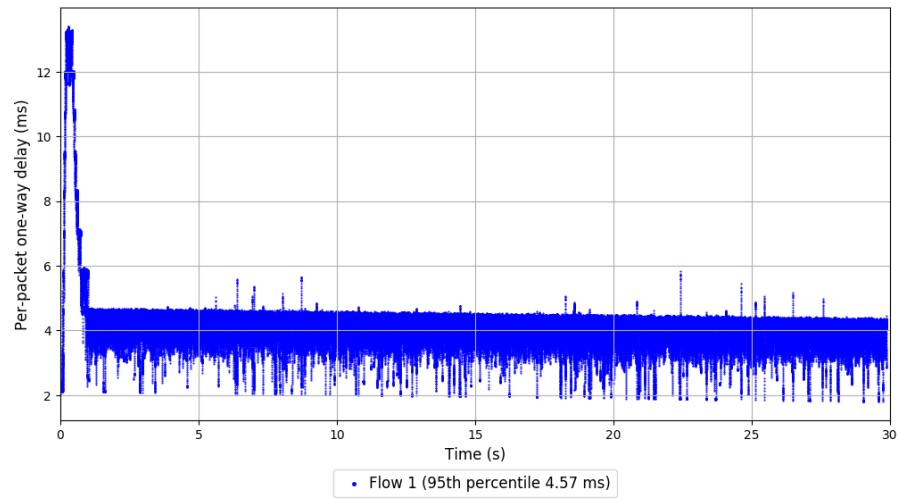
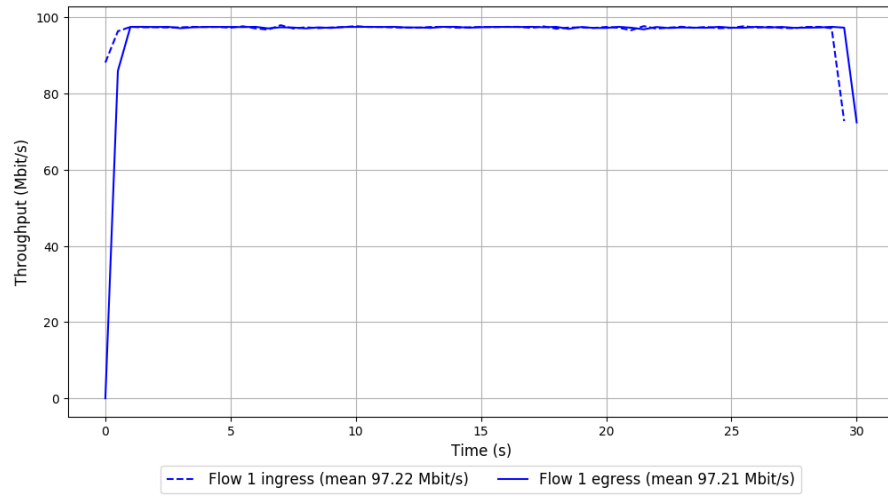
-- Flow 1:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 4.569 ms

Loss rate: 0.02%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-09-18 16:48:41

End at: 2019-09-18 16:49:11

Local clock offset: 6.104 ms

Remote clock offset: 0.64 ms

Below is generated by plot.py at 2019-09-18 17:50:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.15 Mbit/s

95th percentile per-packet one-way delay: 4.159 ms

Loss rate: 0.02%

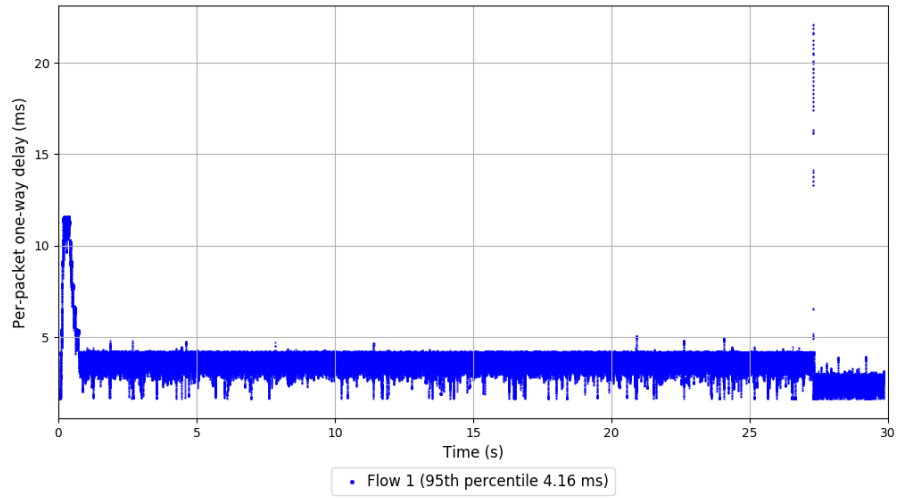
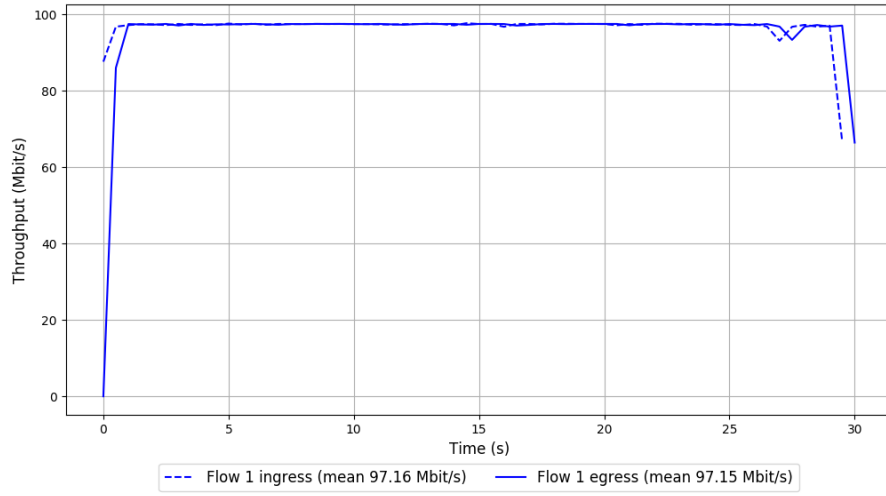
-- Flow 1:

Average throughput: 97.15 Mbit/s

95th percentile per-packet one-way delay: 4.159 ms

Loss rate: 0.02%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-09-18 17:15:33

End at: 2019-09-18 17:16:04

Local clock offset: 3.475 ms

Remote clock offset: 0.883 ms

Below is generated by plot.py at 2019-09-18 17:51:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.15 Mbit/s

95th percentile per-packet one-way delay: 4.200 ms

Loss rate: 0.02%

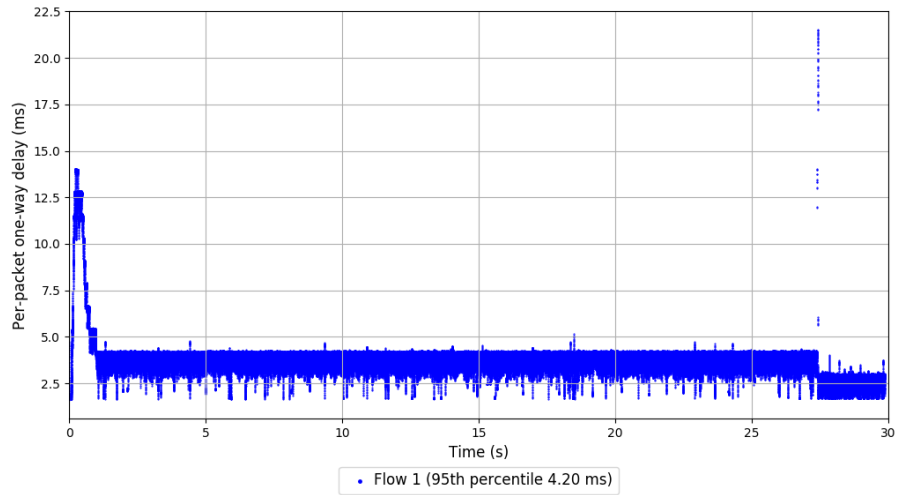
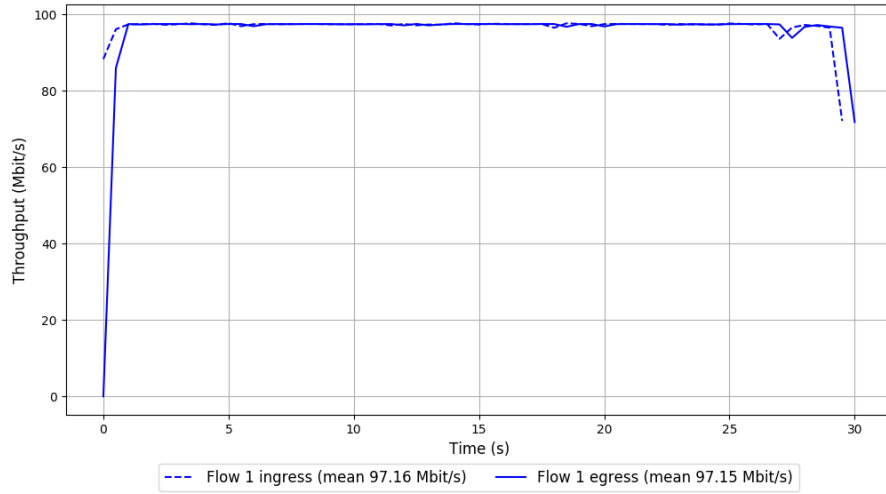
-- Flow 1:

Average throughput: 97.15 Mbit/s

95th percentile per-packet one-way delay: 4.200 ms

Loss rate: 0.02%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-09-18 17:42:31

End at: 2019-09-18 17:43:01

Local clock offset: 23.127 ms

Remote clock offset: 1.396 ms

Below is generated by plot.py at 2019-09-18 17:51:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.18 Mbit/s

95th percentile per-packet one-way delay: 24.048 ms

Loss rate: 0.02%

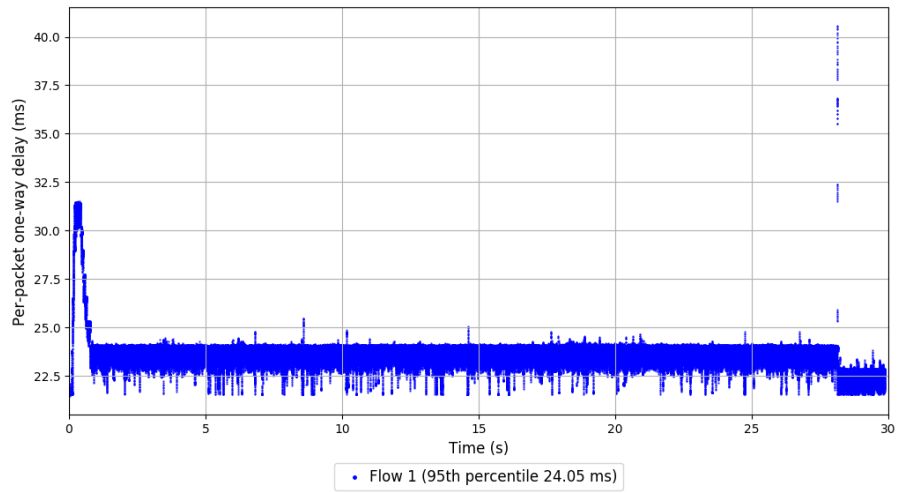
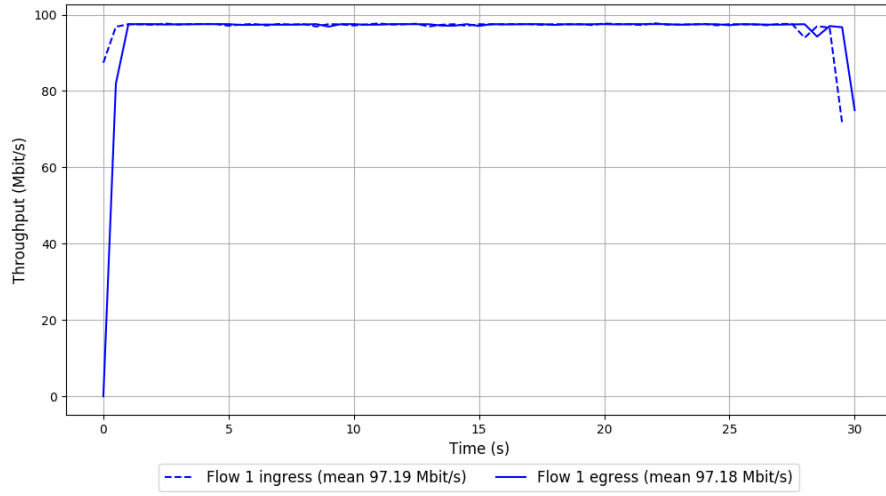
-- Flow 1:

Average throughput: 97.18 Mbit/s

95th percentile per-packet one-way delay: 24.048 ms

Loss rate: 0.02%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-09-18 15:36:47
End at: 2019-09-18 15:37:17
Local clock offset: -23.112 ms
Remote clock offset: -0.305 ms

Below is generated by plot.py at 2019-09-18 17:51:08

Datalink statistics

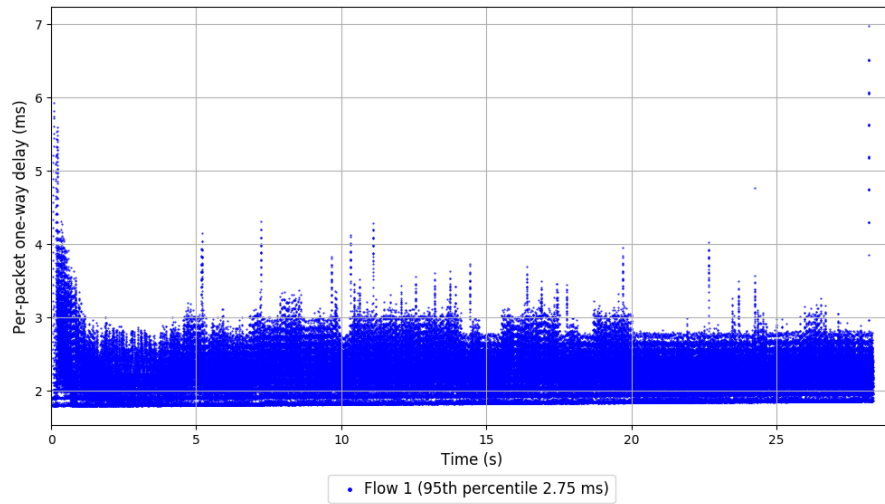
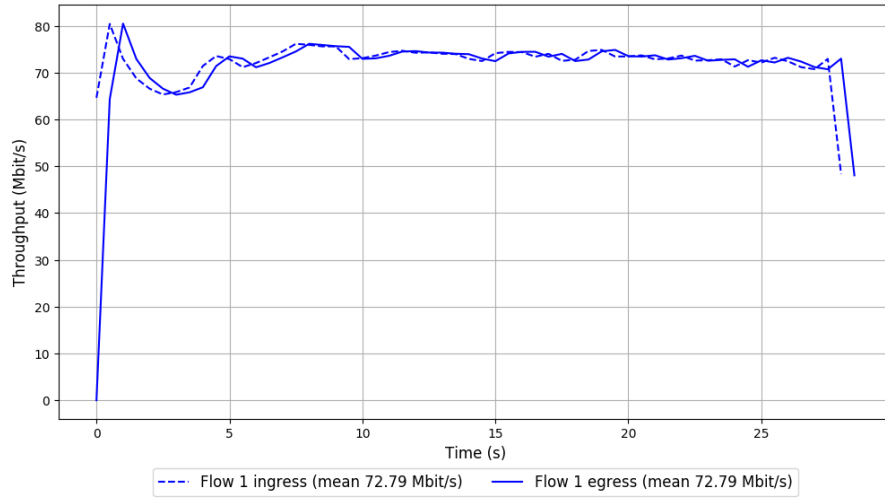
-- Total of 1 flow:

Average throughput: 72.79 Mbit/s
95th percentile per-packet one-way delay: 2.747 ms
Loss rate: 0.01%

-- Flow 1:

Average throughput: 72.79 Mbit/s
95th percentile per-packet one-way delay: 2.747 ms
Loss rate: 0.01%

Run 1: Report of Indigo-MusesC3 — Data Link

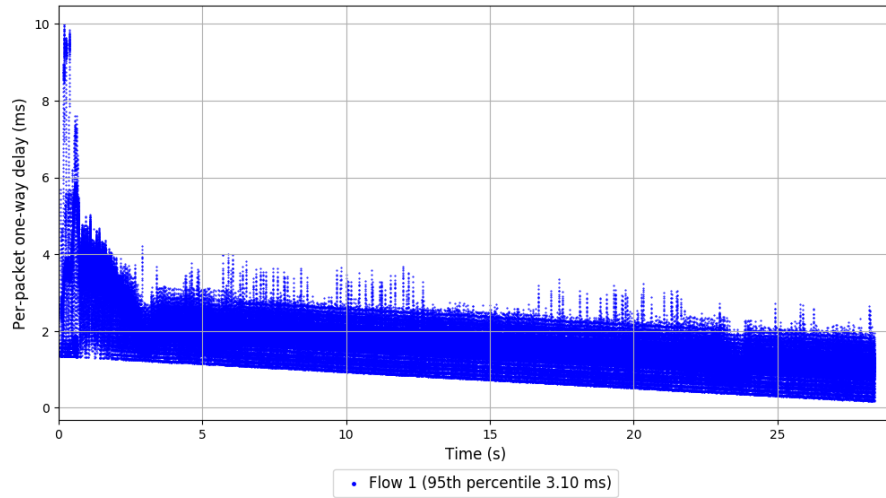
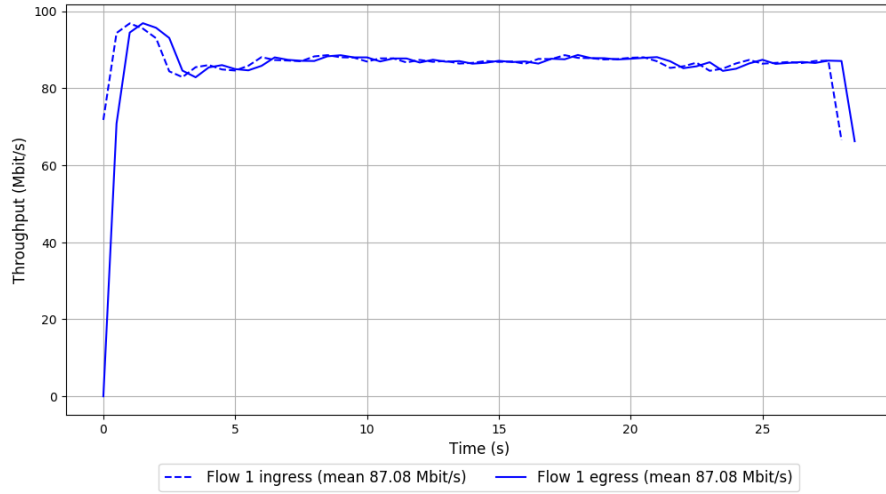


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-09-18 16:03:45
End at: 2019-09-18 16:04:15
Local clock offset: -15.502 ms
Remote clock offset: 0.074 ms

Below is generated by plot.py at 2019-09-18 17:51:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.08 Mbit/s
95th percentile per-packet one-way delay: 3.105 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 87.08 Mbit/s
95th percentile per-packet one-way delay: 3.105 ms
Loss rate: 0.01%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-09-18 16:30:43

End at: 2019-09-18 16:31:13

Local clock offset: 13.774 ms

Remote clock offset: 0.387 ms

Below is generated by plot.py at 2019-09-18 17:51:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.12 Mbit/s

95th percentile per-packet one-way delay: 5.149 ms

Loss rate: 0.02%

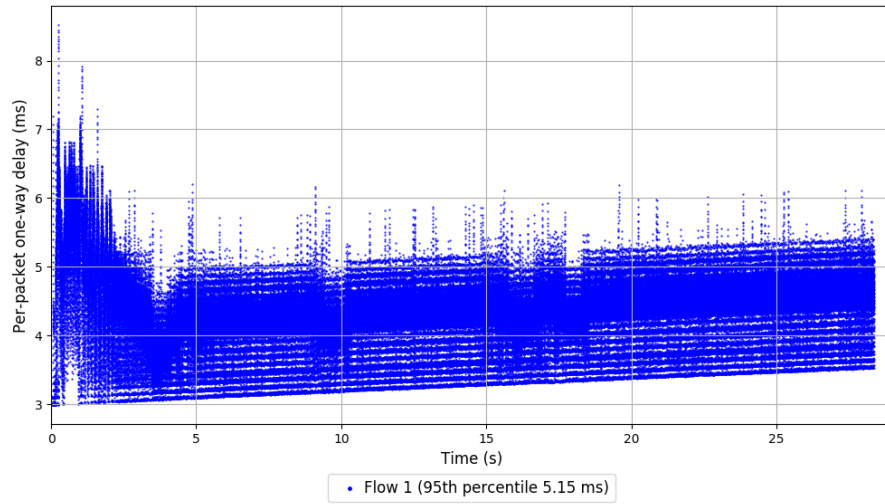
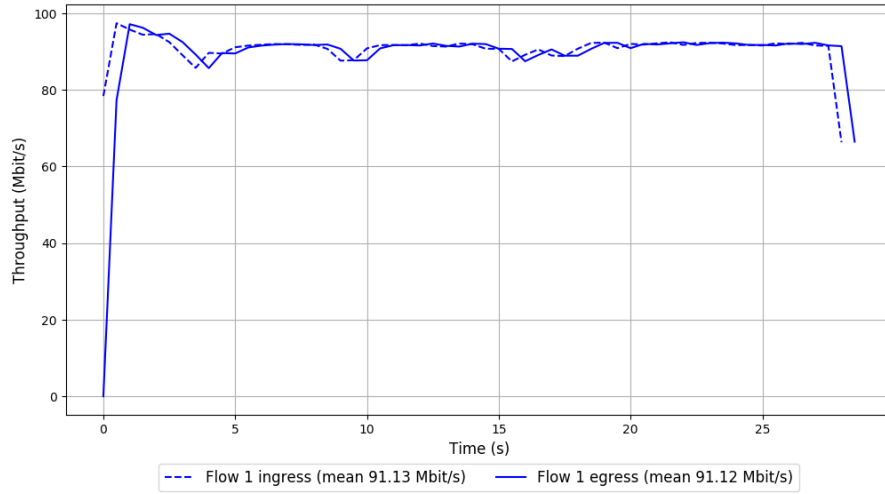
-- Flow 1:

Average throughput: 91.12 Mbit/s

95th percentile per-packet one-way delay: 5.149 ms

Loss rate: 0.02%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-09-18 16:57:45

End at: 2019-09-18 16:58:15

Local clock offset: 7.059 ms

Remote clock offset: 0.67 ms

Below is generated by plot.py at 2019-09-18 17:51:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.40 Mbit/s

95th percentile per-packet one-way delay: 2.586 ms

Loss rate: 0.01%

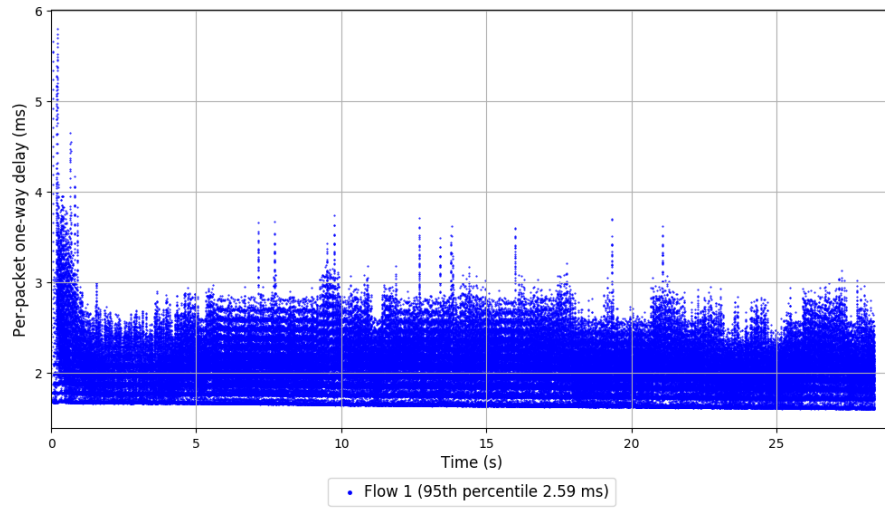
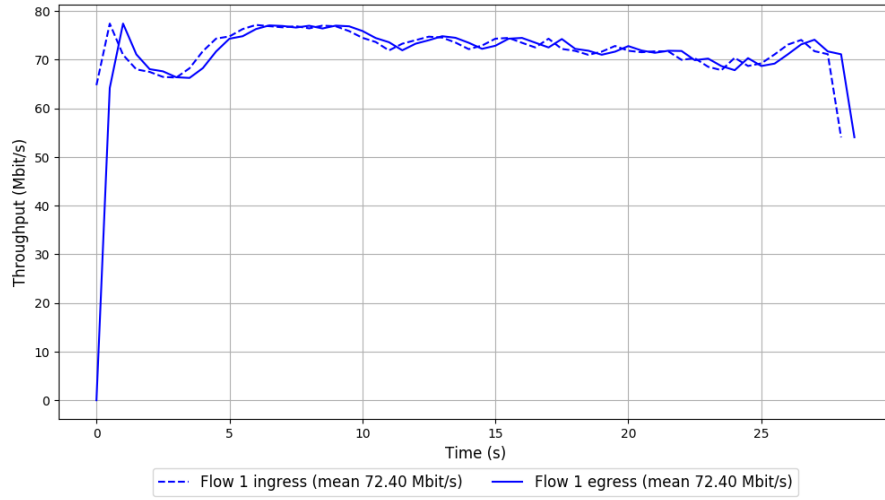
-- Flow 1:

Average throughput: 72.40 Mbit/s

95th percentile per-packet one-way delay: 2.586 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-09-18 17:24:37

End at: 2019-09-18 17:25:07

Local clock offset: 25.581 ms

Remote clock offset: 0.98 ms

Below is generated by plot.py at 2019-09-18 17:51:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.74 Mbit/s

95th percentile per-packet one-way delay: 25.533 ms

Loss rate: 0.02%

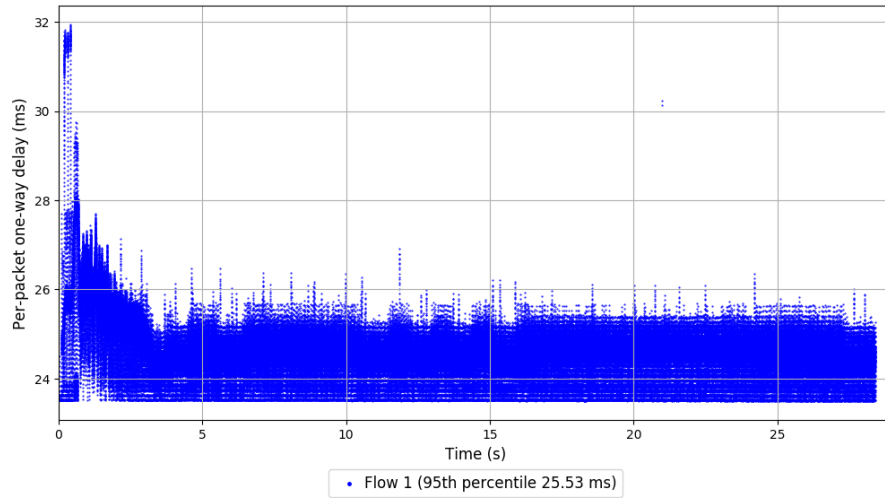
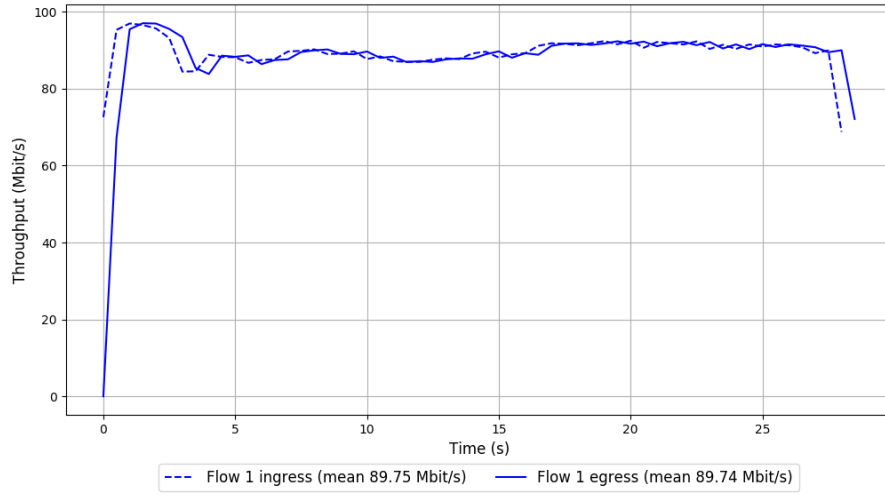
-- Flow 1:

Average throughput: 89.74 Mbit/s

95th percentile per-packet one-way delay: 25.533 ms

Loss rate: 0.02%

Run 5: Report of Indigo-MusesC3 — Data Link

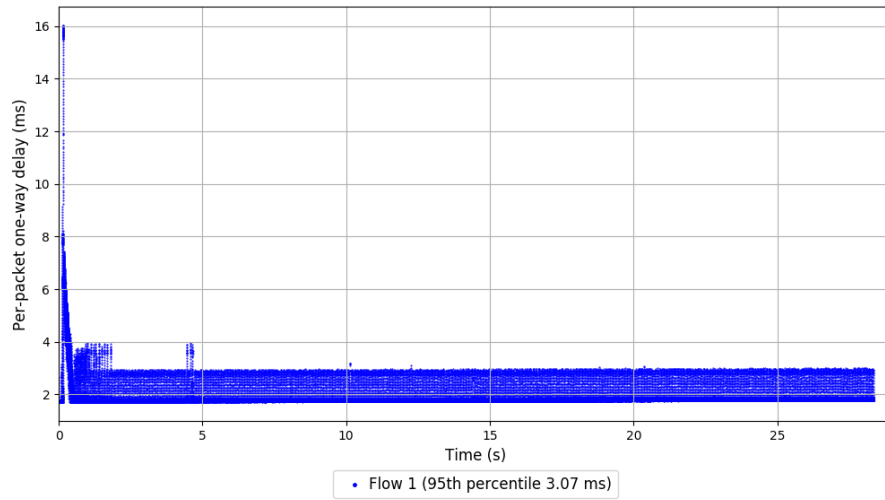
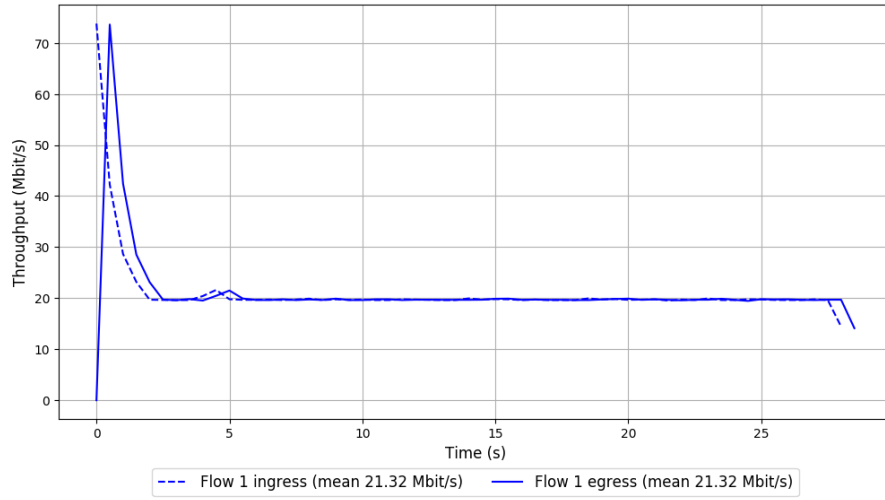


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-09-18 15:49:04
End at: 2019-09-18 15:49:34
Local clock offset: -24.764 ms
Remote clock offset: -0.091 ms

Below is generated by plot.py at 2019-09-18 17:51:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 21.32 Mbit/s
95th percentile per-packet one-way delay: 3.066 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 21.32 Mbit/s
95th percentile per-packet one-way delay: 3.066 ms
Loss rate: 0.03%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-09-18 16:16:01

End at: 2019-09-18 16:16:32

Local clock offset: 3.558 ms

Remote clock offset: 0.293 ms

Below is generated by plot.py at 2019-09-18 17:51:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.10 Mbit/s

95th percentile per-packet one-way delay: 2.382 ms

Loss rate: 0.01%

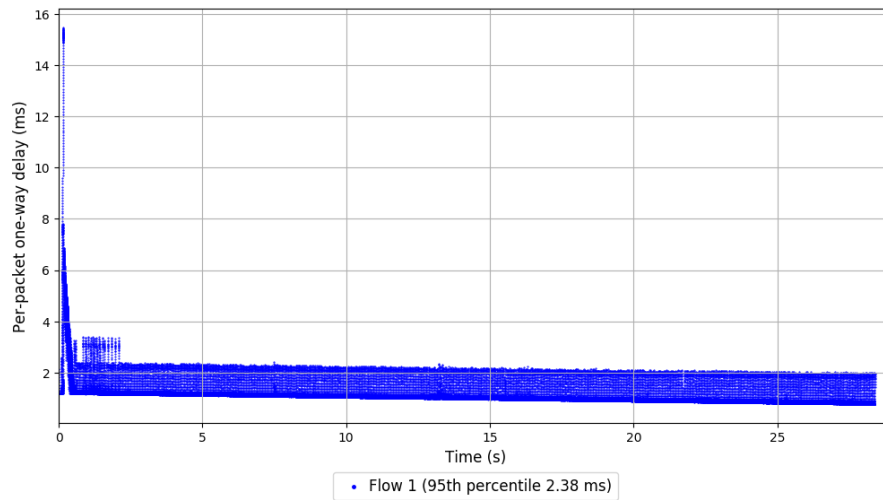
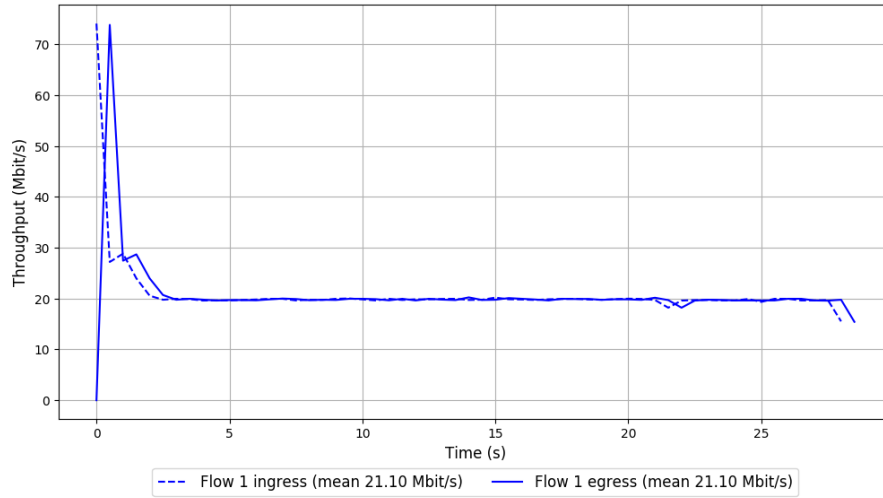
-- Flow 1:

Average throughput: 21.10 Mbit/s

95th percentile per-packet one-way delay: 2.382 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-09-18 16:43:02

End at: 2019-09-18 16:43:32

Local clock offset: 6.301 ms

Remote clock offset: 0.527 ms

Below is generated by plot.py at 2019-09-18 17:51:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.25 Mbit/s

95th percentile per-packet one-way delay: 2.219 ms

Loss rate: 0.01%

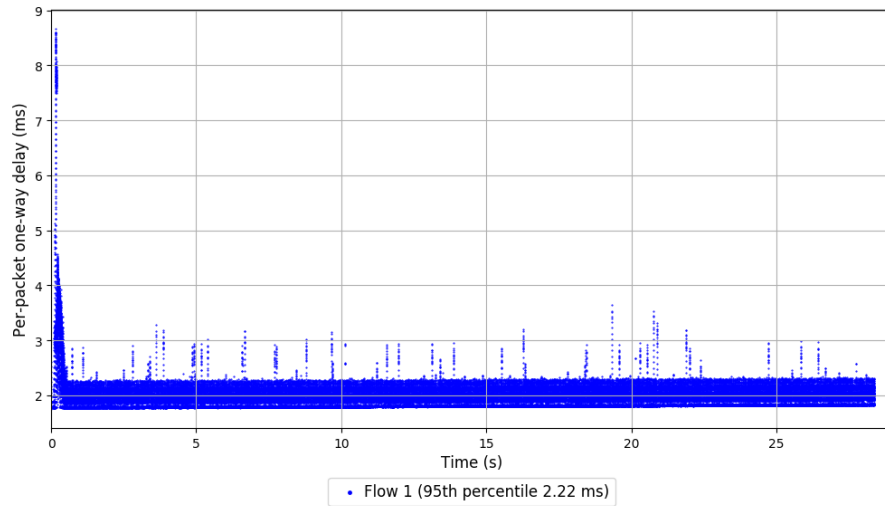
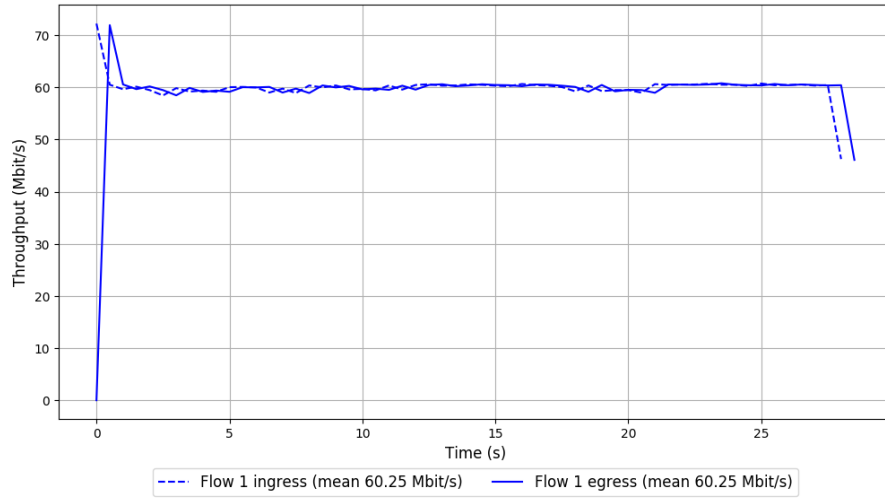
-- Flow 1:

Average throughput: 60.25 Mbit/s

95th percentile per-packet one-way delay: 2.219 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-09-18 17:09:59

End at: 2019-09-18 17:10:29

Local clock offset: 4.808 ms

Remote clock offset: 0.802 ms

Below is generated by plot.py at 2019-09-18 17:51:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.92 Mbit/s

95th percentile per-packet one-way delay: 12.819 ms

Loss rate: 0.06%

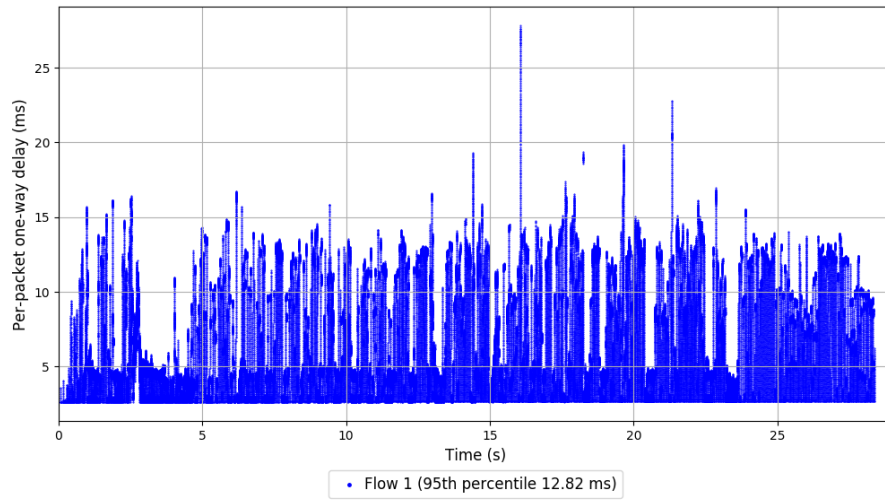
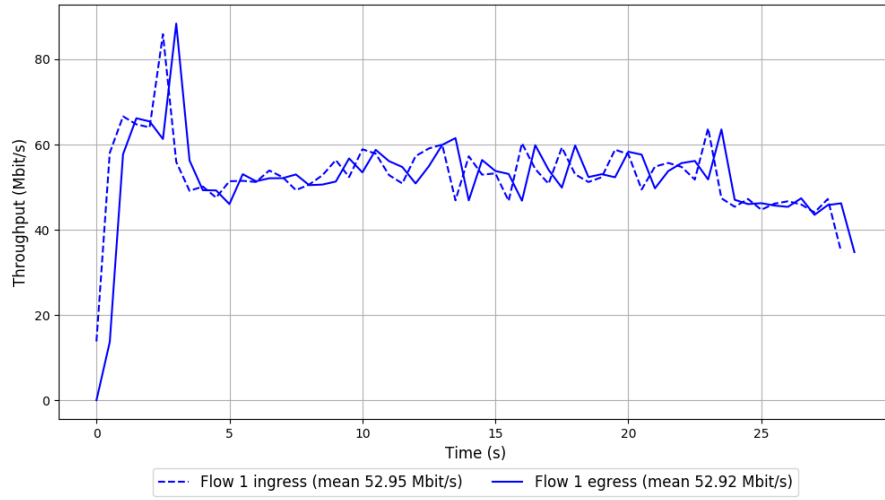
-- Flow 1:

Average throughput: 52.92 Mbit/s

95th percentile per-packet one-way delay: 12.819 ms

Loss rate: 0.06%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-09-18 17:36:54

End at: 2019-09-18 17:37:24

Local clock offset: 3.367 ms

Remote clock offset: 1.26 ms

Below is generated by plot.py at 2019-09-18 17:51:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.10 Mbit/s

95th percentile per-packet one-way delay: 3.615 ms

Loss rate: 0.02%

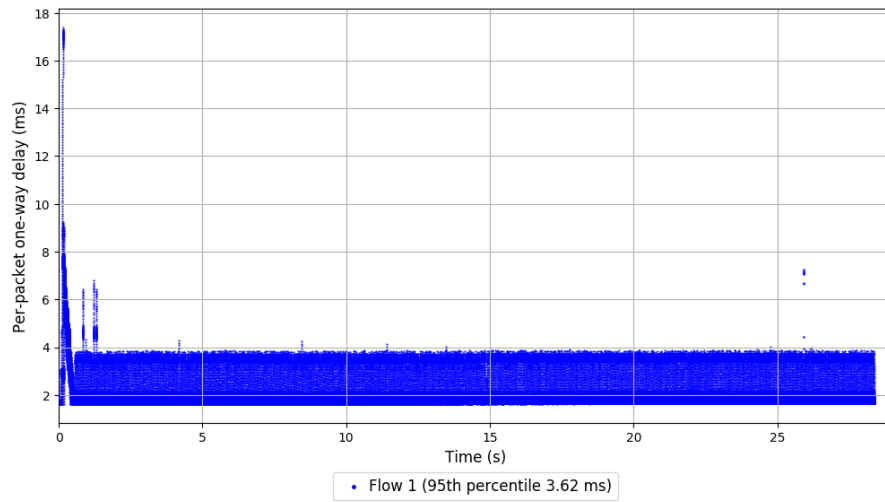
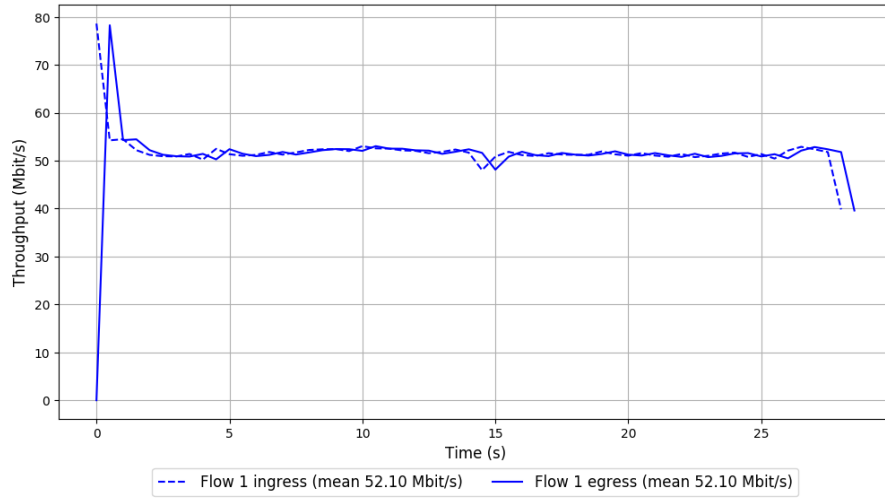
-- Flow 1:

Average throughput: 52.10 Mbit/s

95th percentile per-packet one-way delay: 3.615 ms

Loss rate: 0.02%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-09-18 15:51:20

End at: 2019-09-18 15:51:50

Local clock offset: -24.342 ms

Remote clock offset: -0.125 ms

Below is generated by plot.py at 2019-09-18 17:51:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.44 Mbit/s

95th percentile per-packet one-way delay: 3.053 ms

Loss rate: 0.00%

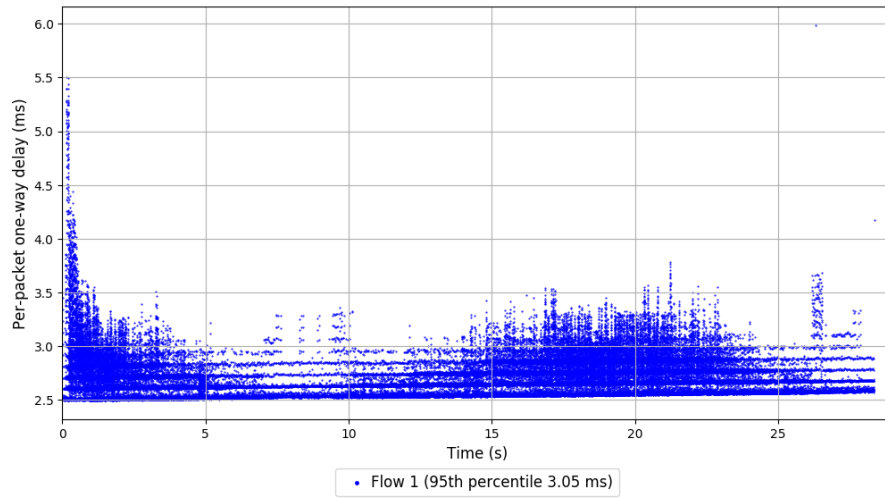
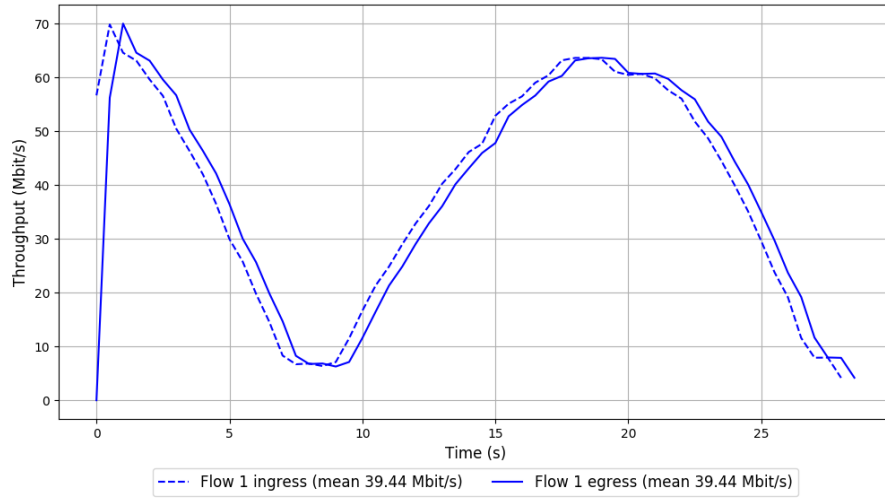
-- Flow 1:

Average throughput: 39.44 Mbit/s

95th percentile per-packet one-way delay: 3.053 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-09-18 16:18:17

End at: 2019-09-18 16:18:47

Local clock offset: 5.465 ms

Remote clock offset: 0.182 ms

Below is generated by plot.py at 2019-09-18 17:51:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.05 Mbit/s

95th percentile per-packet one-way delay: 1.709 ms

Loss rate: 0.01%

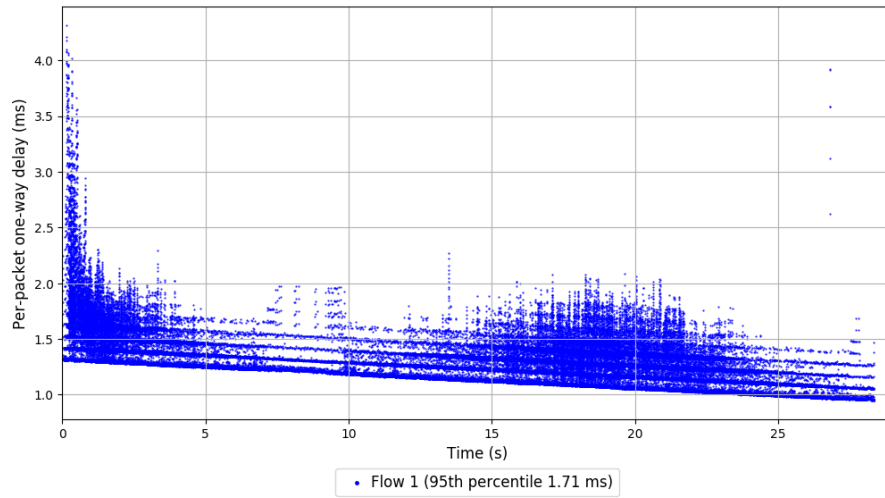
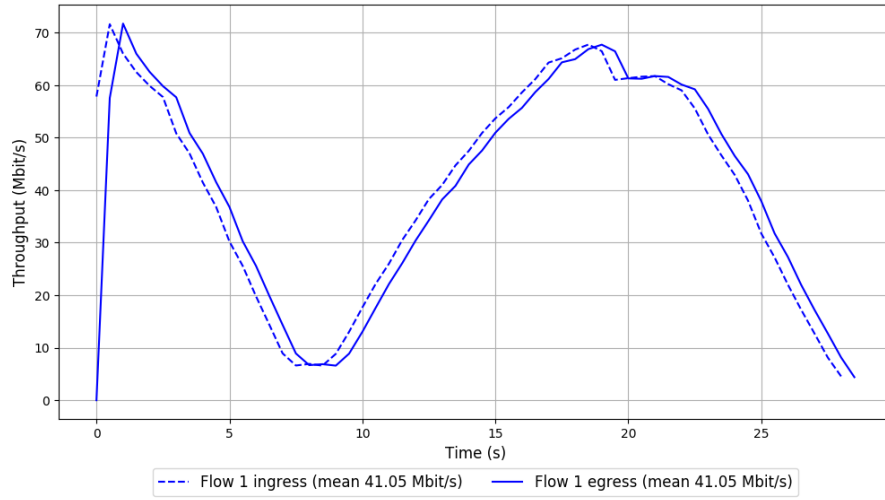
-- Flow 1:

Average throughput: 41.05 Mbit/s

95th percentile per-packet one-way delay: 1.709 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-09-18 16:45:19

End at: 2019-09-18 16:45:49

Local clock offset: 6.888 ms

Remote clock offset: 0.465 ms

Below is generated by plot.py at 2019-09-18 17:51:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.10 Mbit/s

95th percentile per-packet one-way delay: 3.114 ms

Loss rate: 0.00%

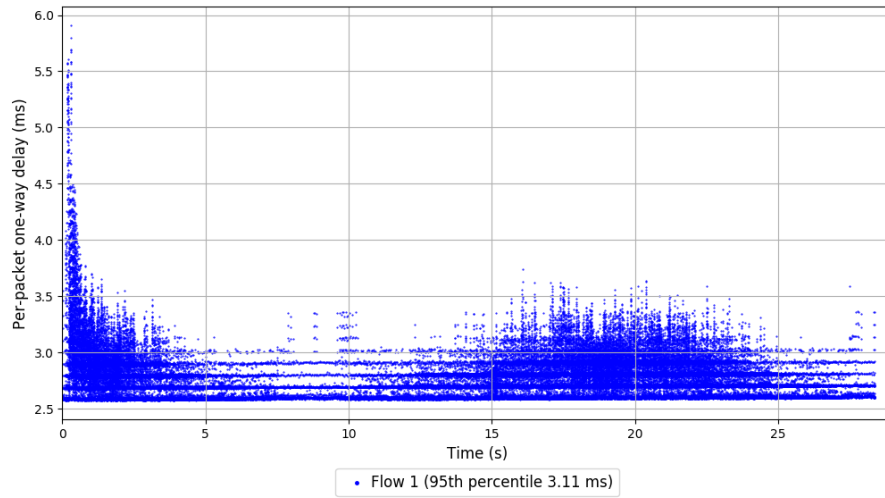
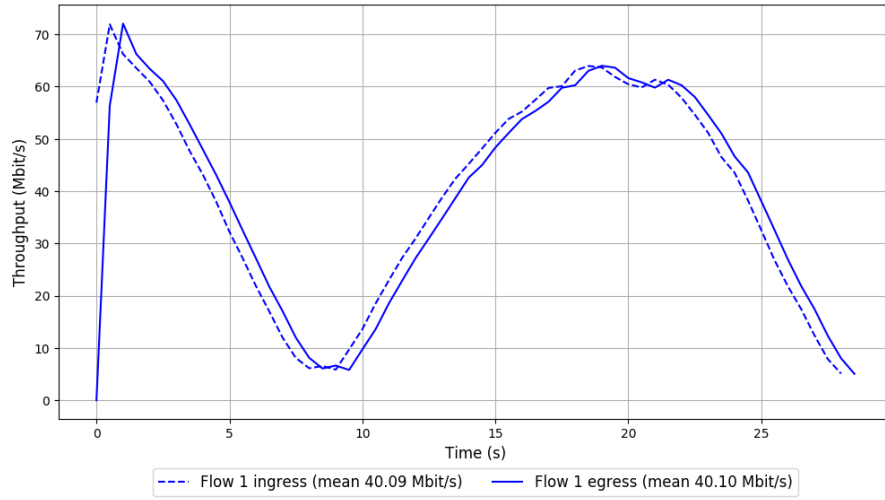
-- Flow 1:

Average throughput: 40.10 Mbit/s

95th percentile per-packet one-way delay: 3.114 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-09-18 17:12:11

End at: 2019-09-18 17:12:41

Local clock offset: 3.666 ms

Remote clock offset: 0.894 ms

Below is generated by plot.py at 2019-09-18 17:52:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.86 Mbit/s

95th percentile per-packet one-way delay: 3.473 ms

Loss rate: 0.01%

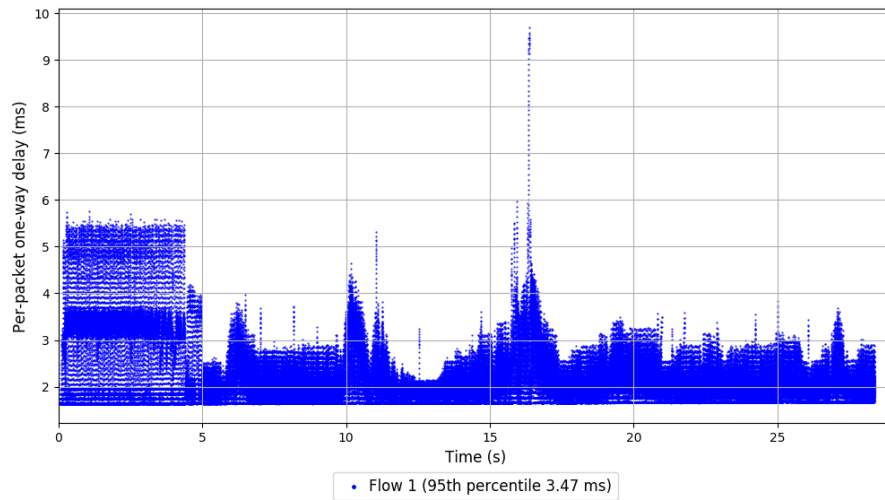
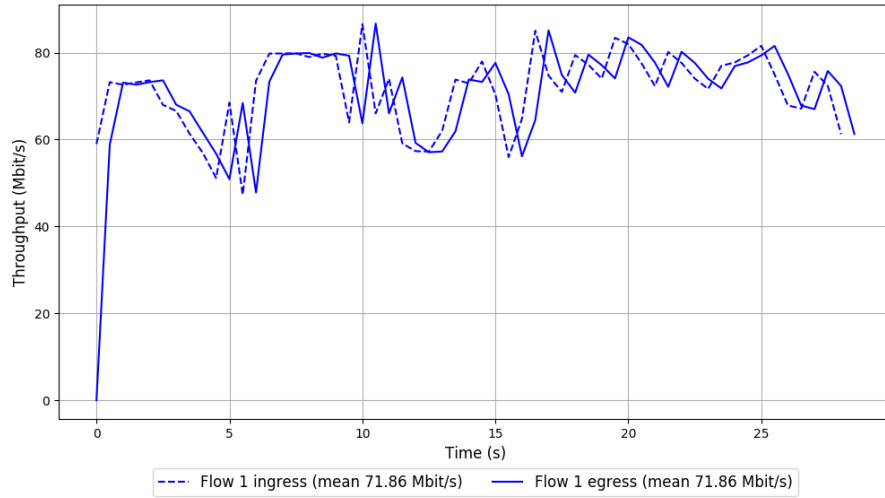
-- Flow 1:

Average throughput: 71.86 Mbit/s

95th percentile per-packet one-way delay: 3.473 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-09-18 17:39:11

End at: 2019-09-18 17:39:41

Local clock offset: 19.757 ms

Remote clock offset: 1.27 ms

Below is generated by plot.py at 2019-09-18 17:52:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.44 Mbit/s

95th percentile per-packet one-way delay: 25.274 ms

Loss rate: 0.00%

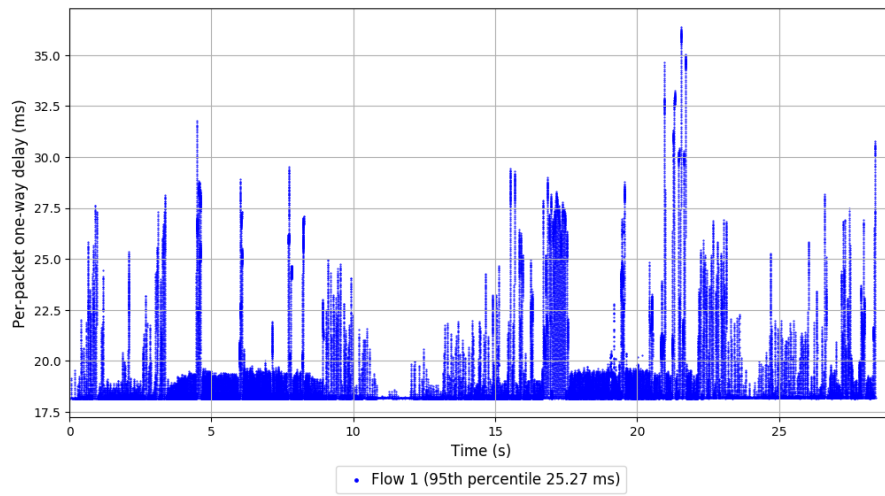
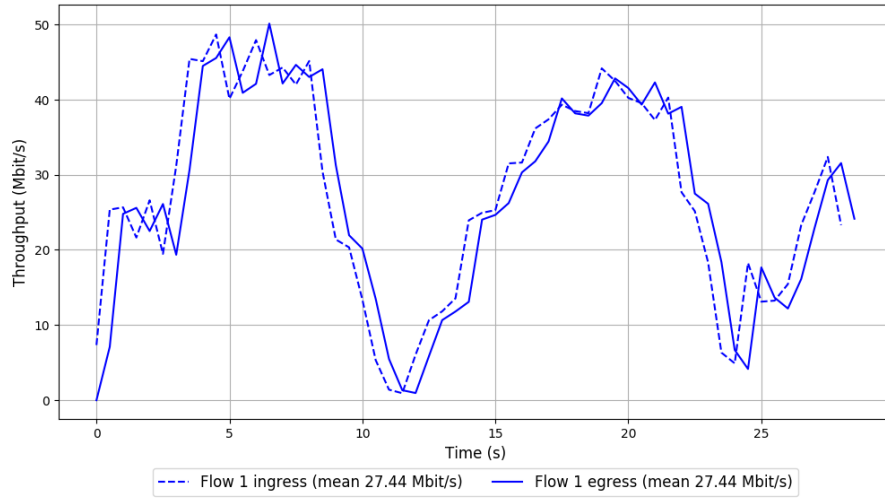
-- Flow 1:

Average throughput: 27.44 Mbit/s

95th percentile per-packet one-way delay: 25.274 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link

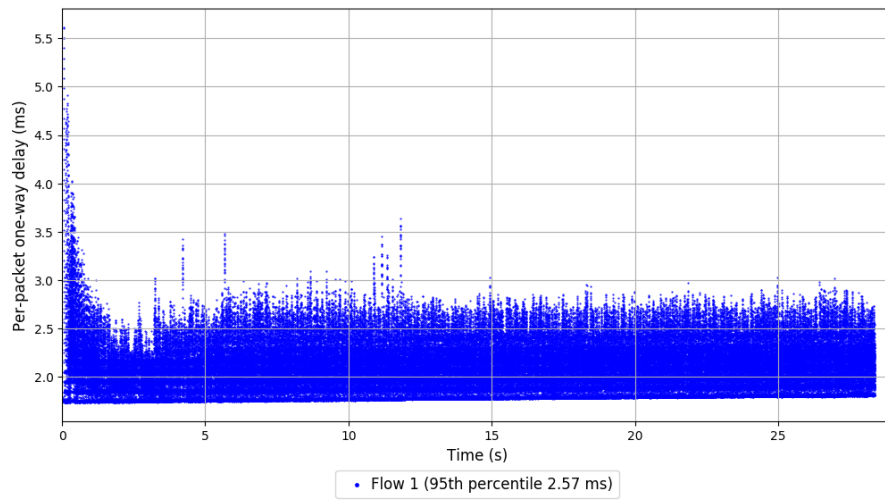
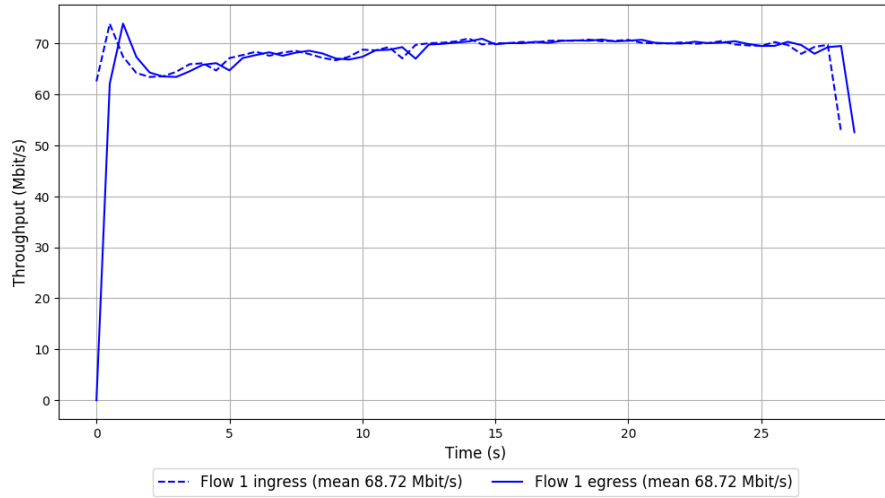


Run 1: Statistics of Indigo-MusesT

Start at: 2019-09-18 15:37:54
End at: 2019-09-18 15:38:24
Local clock offset: -23.255 ms
Remote clock offset: -0.252 ms

Below is generated by plot.py at 2019-09-18 17:52:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 68.72 Mbit/s
95th percentile per-packet one-way delay: 2.573 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 68.72 Mbit/s
95th percentile per-packet one-way delay: 2.573 ms
Loss rate: 0.01%

Run 1: Report of Indigo-MusesT — Data Link

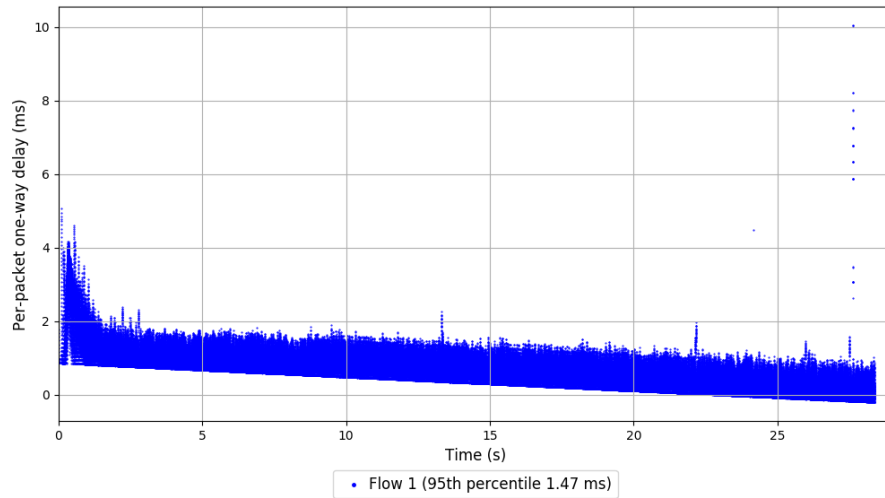
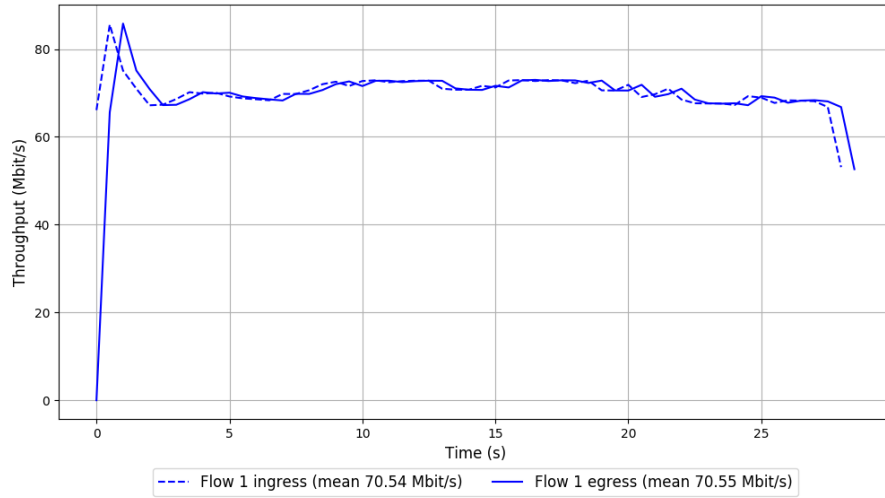


Run 2: Statistics of Indigo-MusesT

Start at: 2019-09-18 16:04:52
End at: 2019-09-18 16:05:22
Local clock offset: -13.221 ms
Remote clock offset: 0.107 ms

Below is generated by plot.py at 2019-09-18 17:52:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 70.55 Mbit/s
95th percentile per-packet one-way delay: 1.466 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 70.55 Mbit/s
95th percentile per-packet one-way delay: 1.466 ms
Loss rate: 0.01%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MuseST

Start at: 2019-09-18 16:31:51

End at: 2019-09-18 16:32:21

Local clock offset: 12.424 ms

Remote clock offset: 0.493 ms

Below is generated by plot.py at 2019-09-18 17:52:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.18 Mbit/s

95th percentile per-packet one-way delay: 3.833 ms

Loss rate: 0.01%

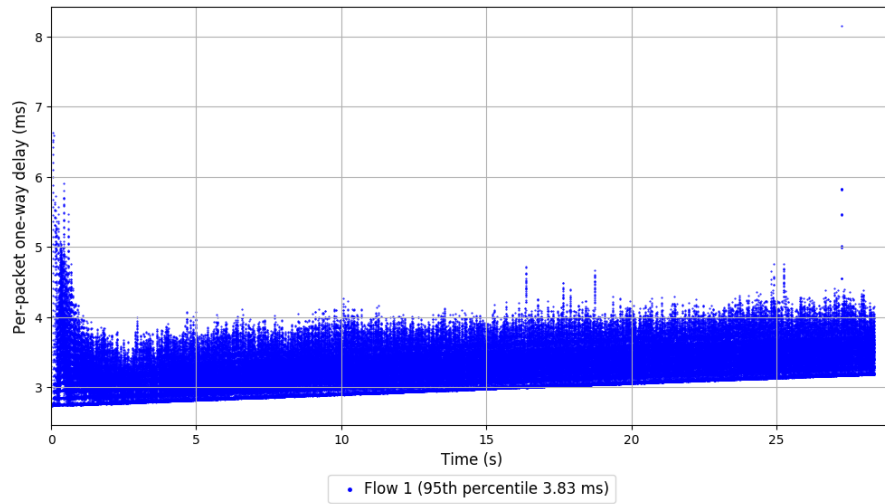
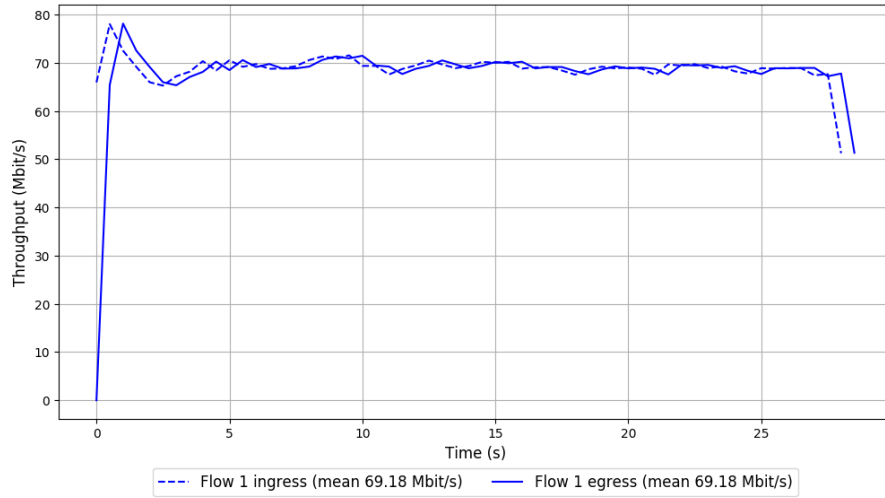
-- Flow 1:

Average throughput: 69.18 Mbit/s

95th percentile per-packet one-way delay: 3.833 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MuseST

Start at: 2019-09-18 16:58:52

End at: 2019-09-18 16:59:23

Local clock offset: 7.965 ms

Remote clock offset: 0.705 ms

Below is generated by plot.py at 2019-09-18 17:52:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.54 Mbit/s

95th percentile per-packet one-way delay: 3.237 ms

Loss rate: 0.01%

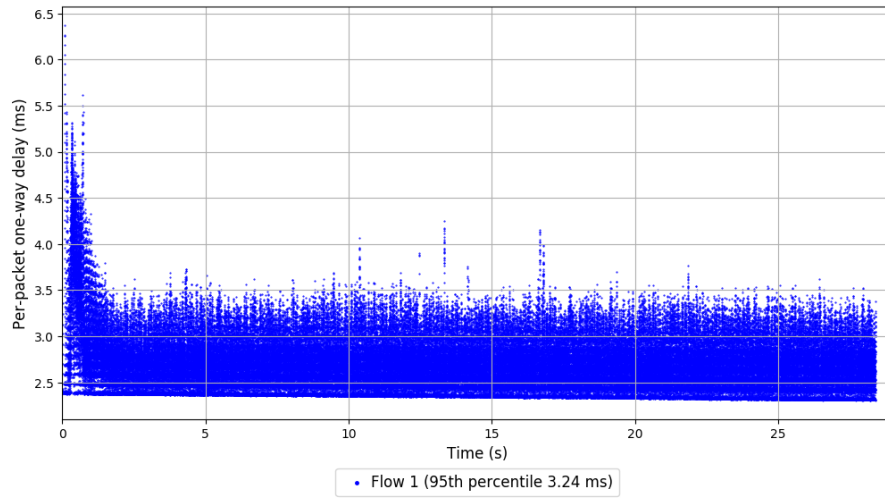
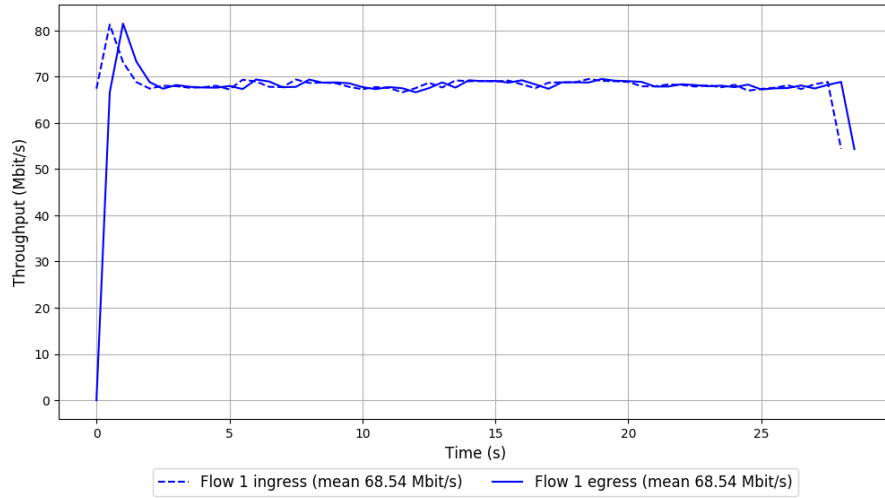
-- Flow 1:

Average throughput: 68.54 Mbit/s

95th percentile per-packet one-way delay: 3.237 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MuseST

Start at: 2019-09-18 17:25:45

End at: 2019-09-18 17:26:15

Local clock offset: 4.623 ms

Remote clock offset: 1.031 ms

Below is generated by plot.py at 2019-09-18 17:52:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.89 Mbit/s

95th percentile per-packet one-way delay: 3.680 ms

Loss rate: 0.01%

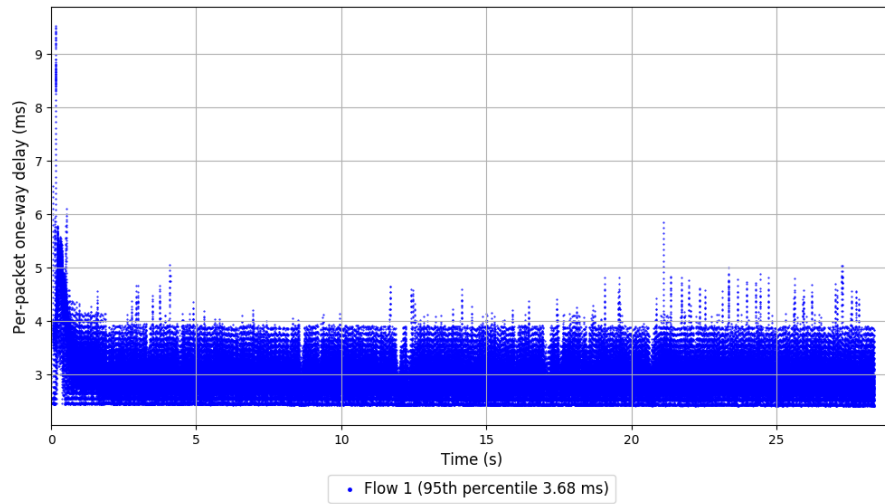
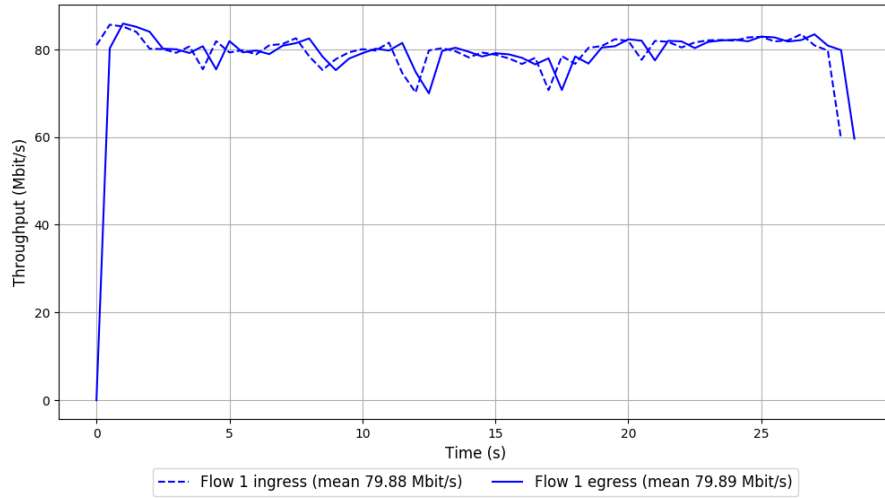
-- Flow 1:

Average throughput: 79.89 Mbit/s

95th percentile per-packet one-way delay: 3.680 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesT — Data Link

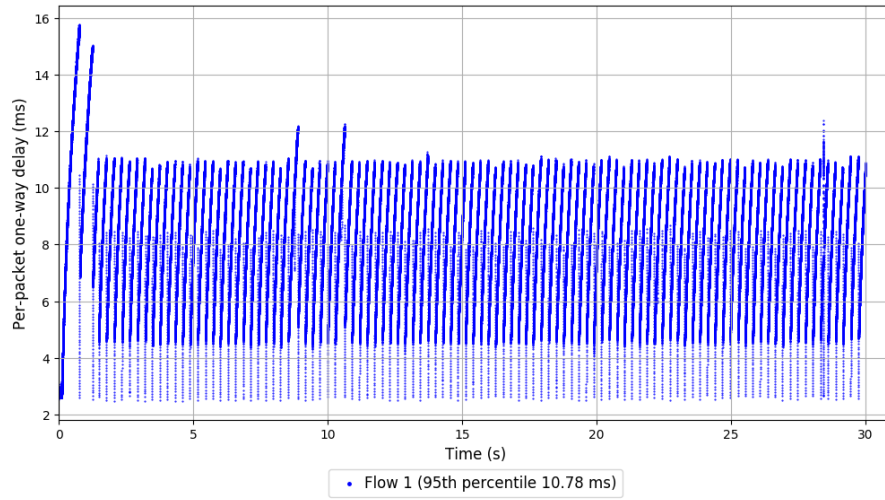
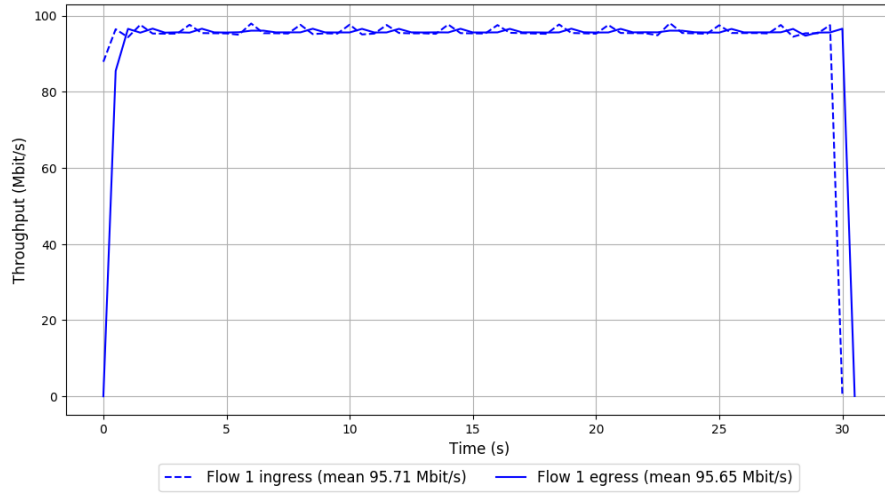


Run 1: Statistics of LEDBAT

Start at: 2019-09-18 15:47:54
End at: 2019-09-18 15:48:24
Local clock offset: -23.828 ms
Remote clock offset: -0.214 ms

Below is generated by plot.py at 2019-09-18 17:53:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 10.780 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 10.780 ms
Loss rate: 0.08%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-09-18 16:14:52

End at: 2019-09-18 16:15:22

Local clock offset: 2.418 ms

Remote clock offset: 0.262 ms

Below is generated by plot.py at 2019-09-18 17:53:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.01 Mbit/s

95th percentile per-packet one-way delay: 9.486 ms

Loss rate: 0.09%

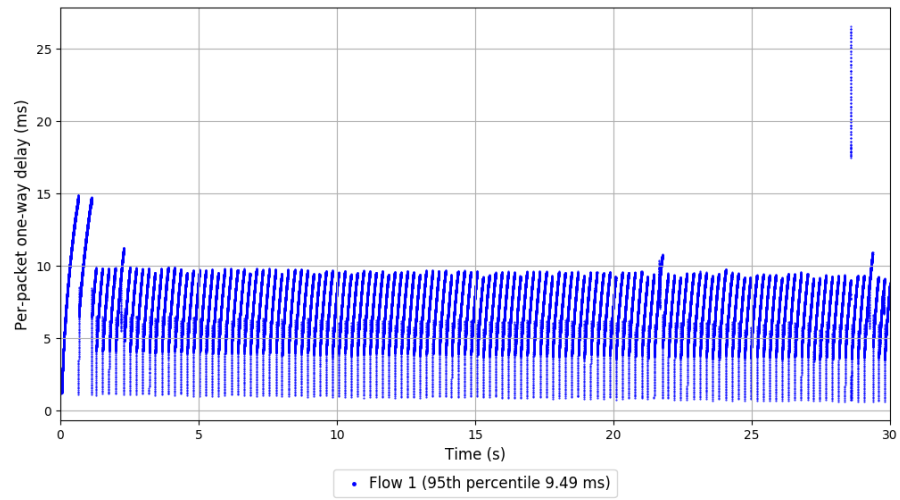
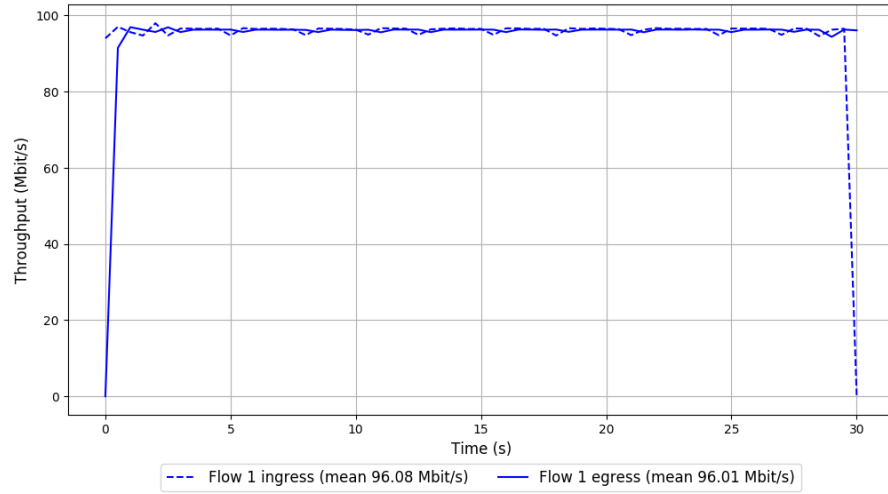
-- Flow 1:

Average throughput: 96.01 Mbit/s

95th percentile per-packet one-way delay: 9.486 ms

Loss rate: 0.09%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-09-18 16:41:52

End at: 2019-09-18 16:42:22

Local clock offset: 6.479 ms

Remote clock offset: 0.504 ms

Below is generated by plot.py at 2019-09-18 17:53:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.97 Mbit/s

95th percentile per-packet one-way delay: 10.291 ms

Loss rate: 0.07%

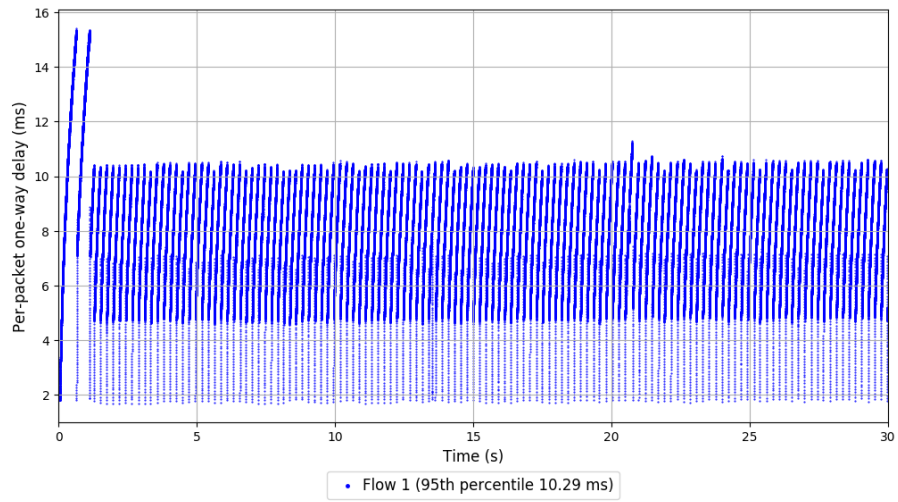
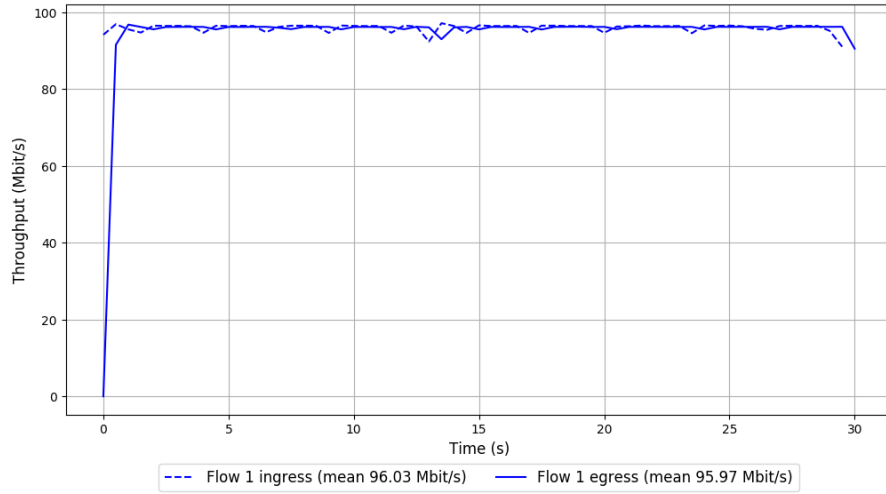
-- Flow 1:

Average throughput: 95.97 Mbit/s

95th percentile per-packet one-way delay: 10.291 ms

Loss rate: 0.07%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-09-18 17:08:52

End at: 2019-09-18 17:09:22

Local clock offset: 4.995 ms

Remote clock offset: 0.822 ms

Below is generated by plot.py at 2019-09-18 17:53:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.41 Mbit/s

95th percentile per-packet one-way delay: 8.020 ms

Loss rate: 0.02%

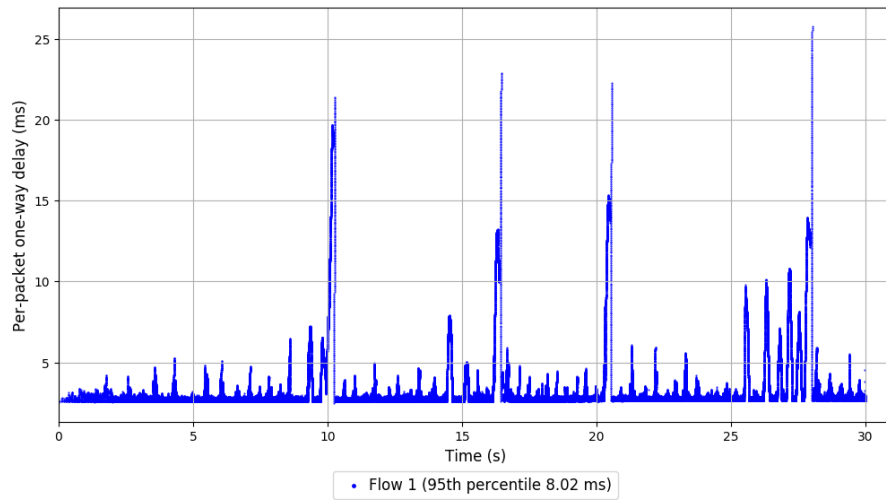
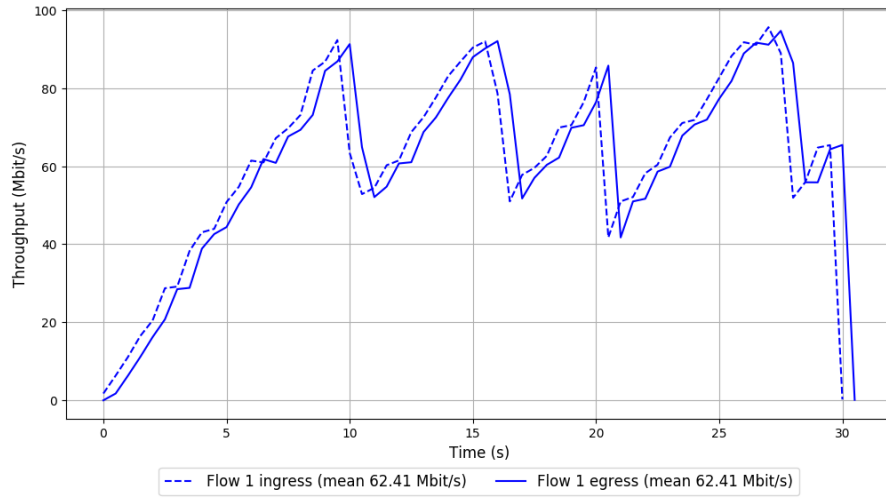
-- Flow 1:

Average throughput: 62.41 Mbit/s

95th percentile per-packet one-way delay: 8.020 ms

Loss rate: 0.02%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-09-18 17:35:44

End at: 2019-09-18 17:36:14

Local clock offset: 18.484 ms

Remote clock offset: 1.191 ms

Below is generated by plot.py at 2019-09-18 17:53:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.03 Mbit/s

95th percentile per-packet one-way delay: 25.642 ms

Loss rate: 0.08%

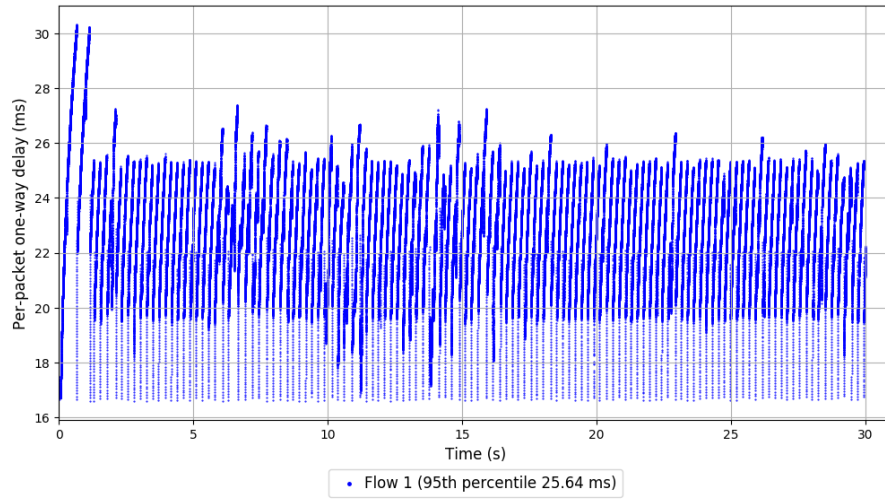
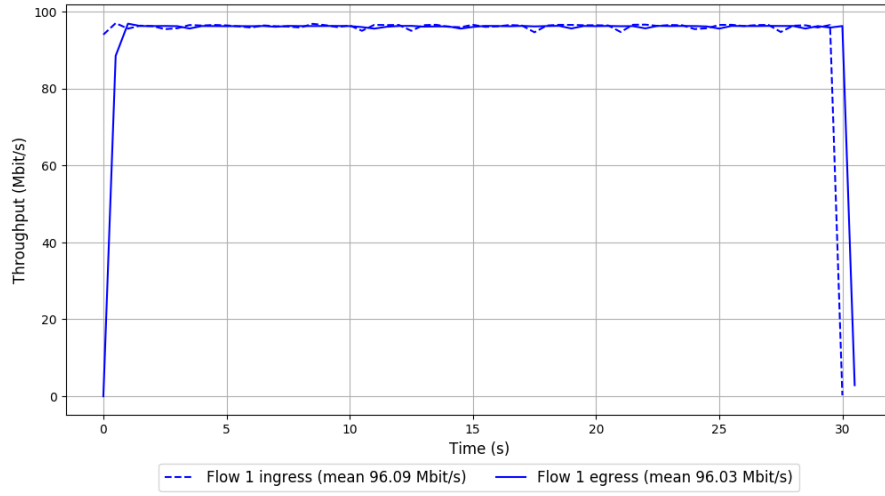
-- Flow 1:

Average throughput: 96.03 Mbit/s

95th percentile per-packet one-way delay: 25.642 ms

Loss rate: 0.08%

Run 5: Report of LEDBAT — Data Link

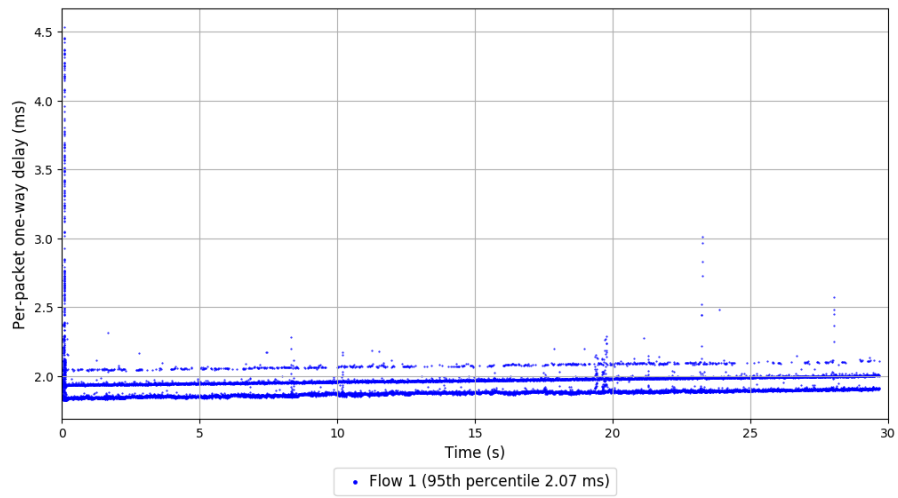
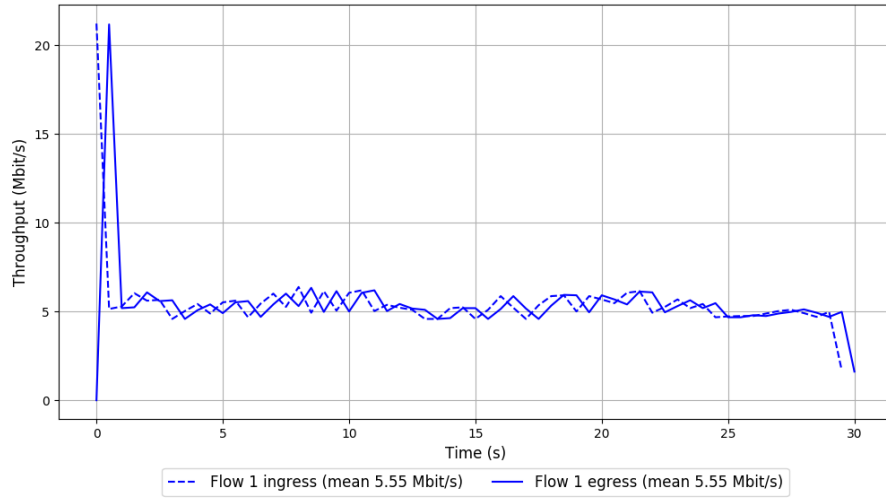


Run 1: Statistics of Muses_DecisionTree

Start at: 2019-09-18 15:40:10
End at: 2019-09-18 15:40:40
Local clock offset: -23.549 ms
Remote clock offset: -0.31 ms

Below is generated by plot.py at 2019-09-18 17:53:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.55 Mbit/s
95th percentile per-packet one-way delay: 2.069 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 5.55 Mbit/s
95th percentile per-packet one-way delay: 2.069 ms
Loss rate: 0.02%

Run 1: Report of Muses_DecisionTree — Data Link



Run 2: Statistics of Muses_DecisionTree

Start at: 2019-09-18 16:07:08

End at: 2019-09-18 16:07:38

Local clock offset: -8.674 ms

Remote clock offset: 0.06 ms

Below is generated by plot.py at 2019-09-18 17:53:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.69 Mbit/s

95th percentile per-packet one-way delay: 0.901 ms

Loss rate: 0.03%

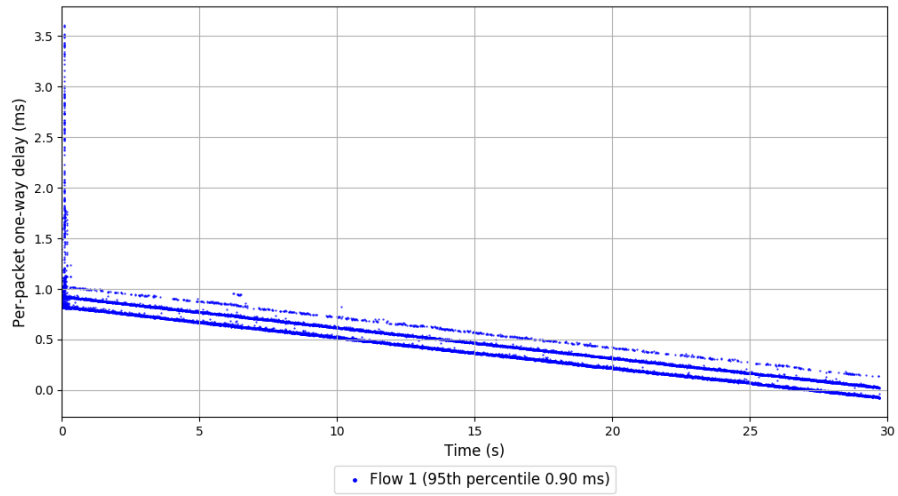
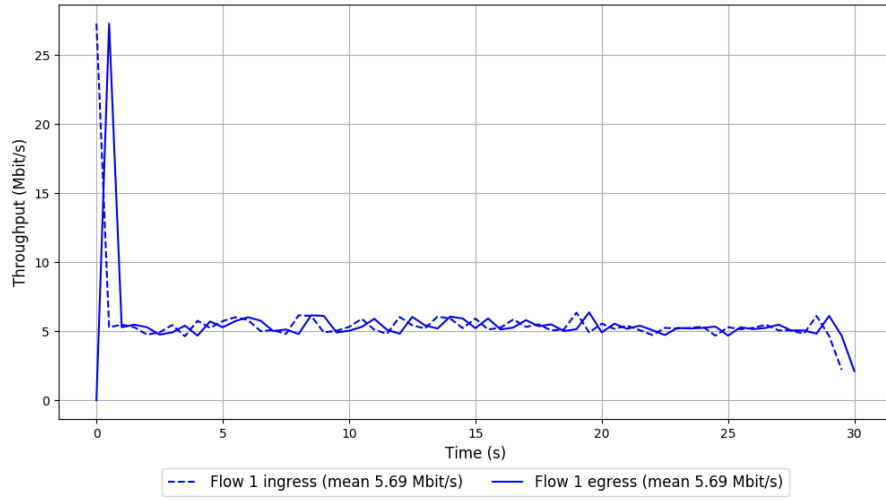
-- Flow 1:

Average throughput: 5.69 Mbit/s

95th percentile per-packet one-way delay: 0.901 ms

Loss rate: 0.03%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

Start at: 2019-09-18 16:34:06

End at: 2019-09-18 16:34:36

Local clock offset: 9.658 ms

Remote clock offset: 0.351 ms

Below is generated by plot.py at 2019-09-18 17:53:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.61 Mbit/s

95th percentile per-packet one-way delay: 2.466 ms

Loss rate: 0.00%

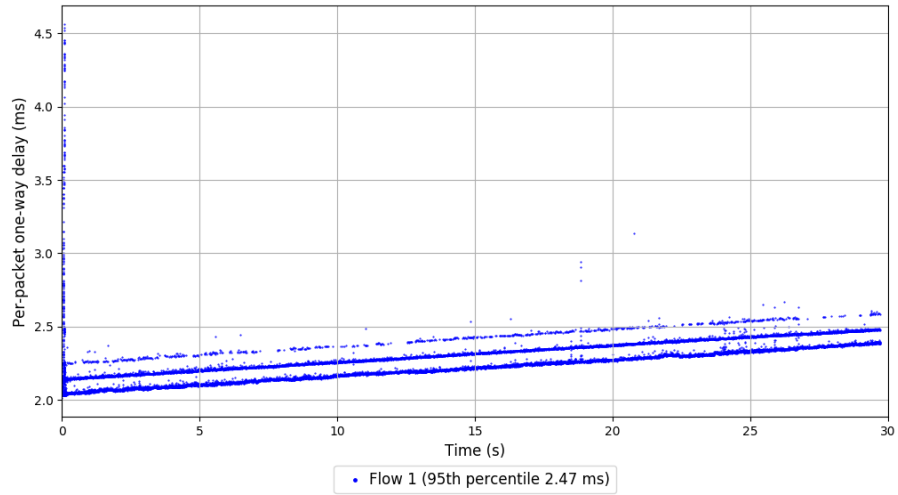
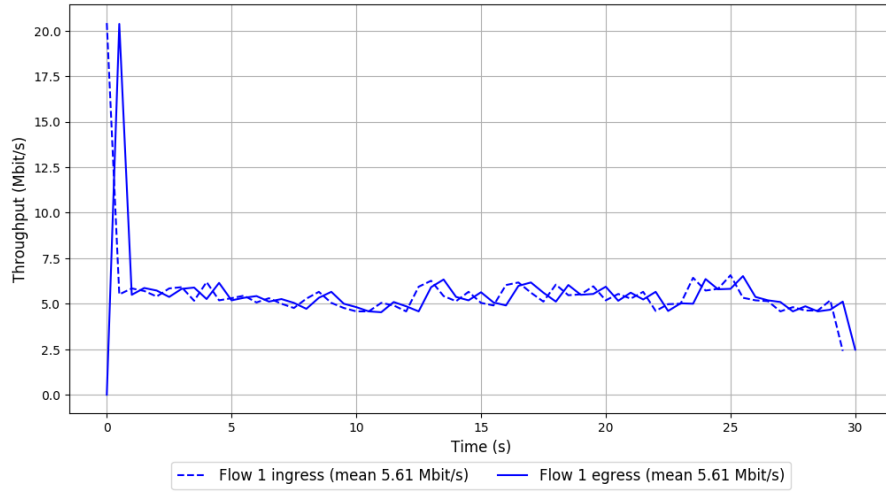
-- Flow 1:

Average throughput: 5.61 Mbit/s

95th percentile per-packet one-way delay: 2.466 ms

Loss rate: 0.00%

Run 3: Report of Muses_DecisionTree — Data Link



Run 4: Statistics of Muses_DecisionTree

Start at: 2019-09-18 17:01:08

End at: 2019-09-18 17:01:38

Local clock offset: 7.892 ms

Remote clock offset: 0.774 ms

Below is generated by plot.py at 2019-09-18 17:53:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.71 Mbit/s

95th percentile per-packet one-way delay: 3.043 ms

Loss rate: 0.00%

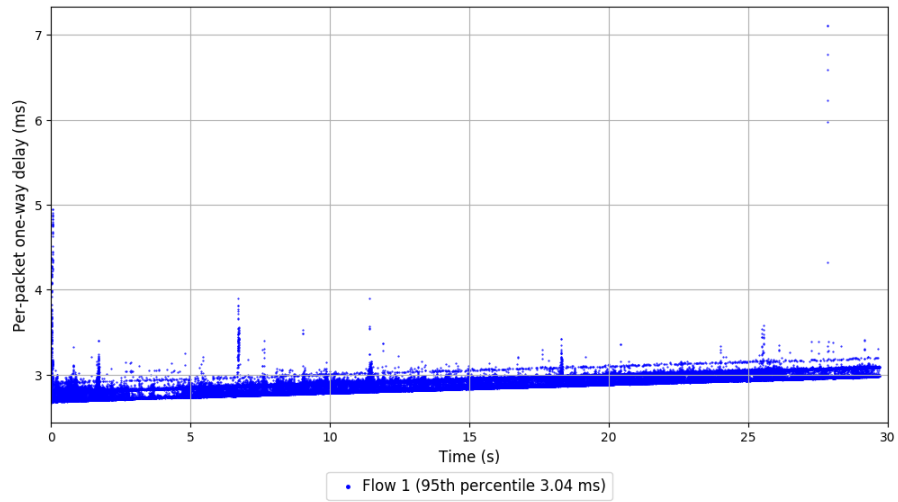
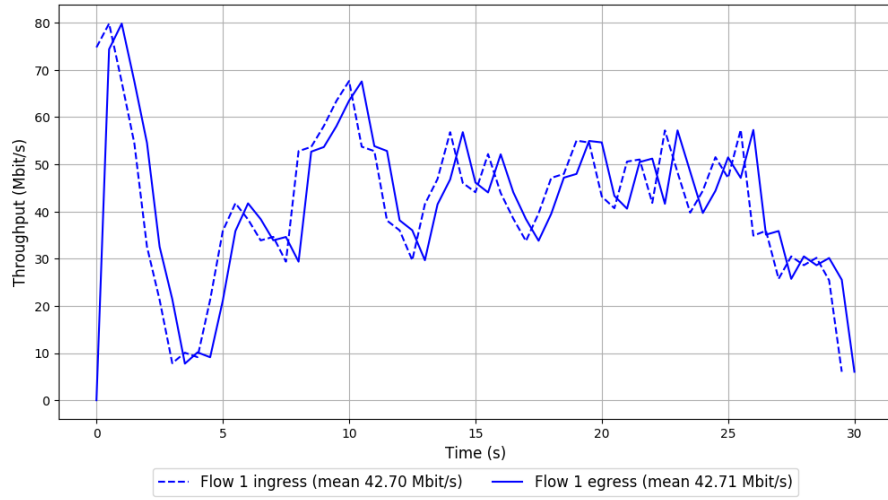
-- Flow 1:

Average throughput: 42.71 Mbit/s

95th percentile per-packet one-way delay: 3.043 ms

Loss rate: 0.00%

Run 4: Report of Muses_DecisionTree — Data Link



Run 5: Statistics of Muses_DecisionTree

Start at: 2019-09-18 17:28:00

End at: 2019-09-18 17:28:30

Local clock offset: 25.589 ms

Remote clock offset: 1.13 ms

Below is generated by plot.py at 2019-09-18 17:53:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.67 Mbit/s

95th percentile per-packet one-way delay: 23.374 ms

Loss rate: 0.02%

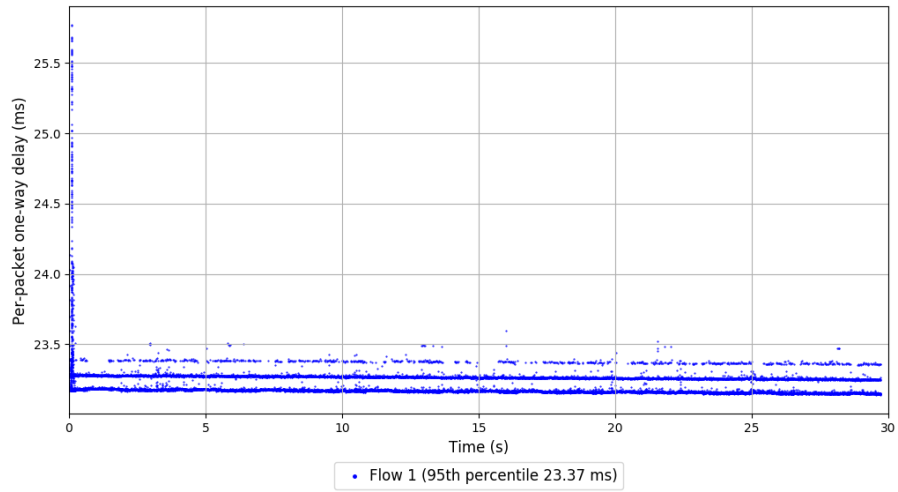
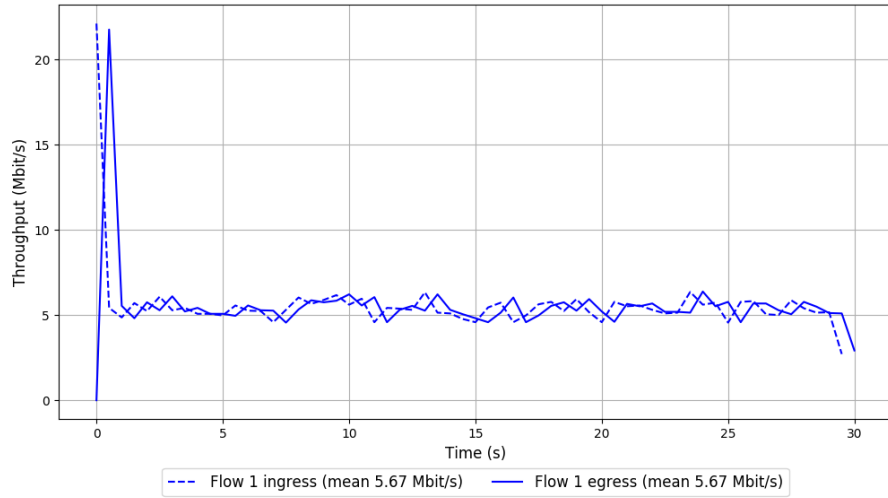
-- Flow 1:

Average throughput: 5.67 Mbit/s

95th percentile per-packet one-way delay: 23.374 ms

Loss rate: 0.02%

Run 5: Report of Muses_DecisionTree — Data Link

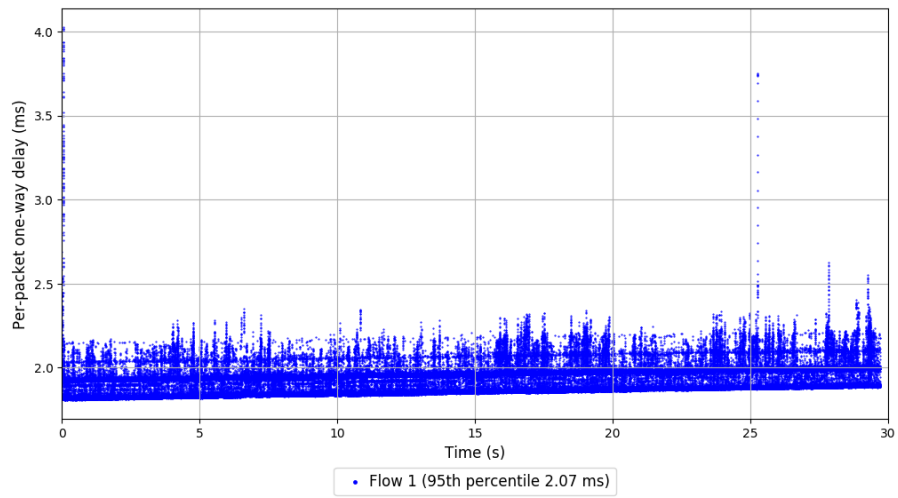
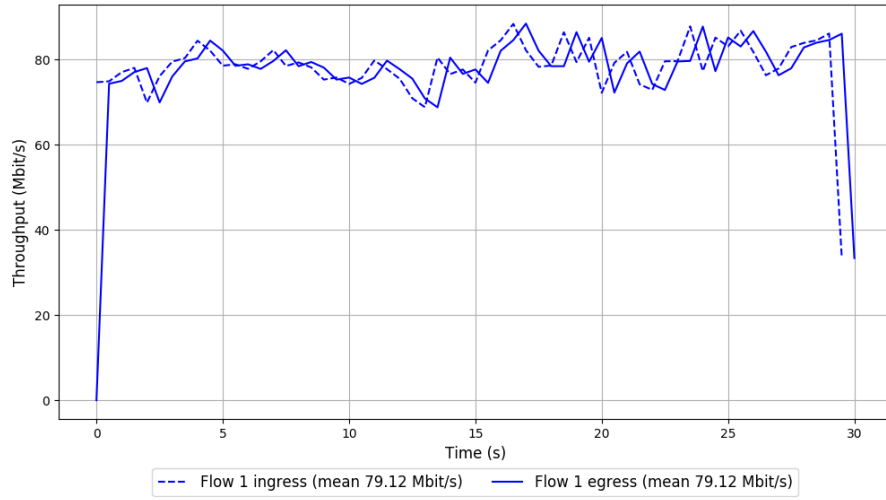


Run 1: Statistics of Muses_DecisionTreeH0

Start at: 2019-09-18 15:44:31
End at: 2019-09-18 15:45:01
Local clock offset: -24.124 ms
Remote clock offset: -0.238 ms

Below is generated by plot.py at 2019-09-18 17:53:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.12 Mbit/s
95th percentile per-packet one-way delay: 2.069 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 79.12 Mbit/s
95th percentile per-packet one-way delay: 2.069 ms
Loss rate: 0.01%

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-09-18 16:11:32

End at: 2019-09-18 16:12:02

Local clock offset: -1.322 ms

Remote clock offset: 0.186 ms

Below is generated by plot.py at 2019-09-18 17:53:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.27 Mbit/s

95th percentile per-packet one-way delay: 1.354 ms

Loss rate: 0.00%

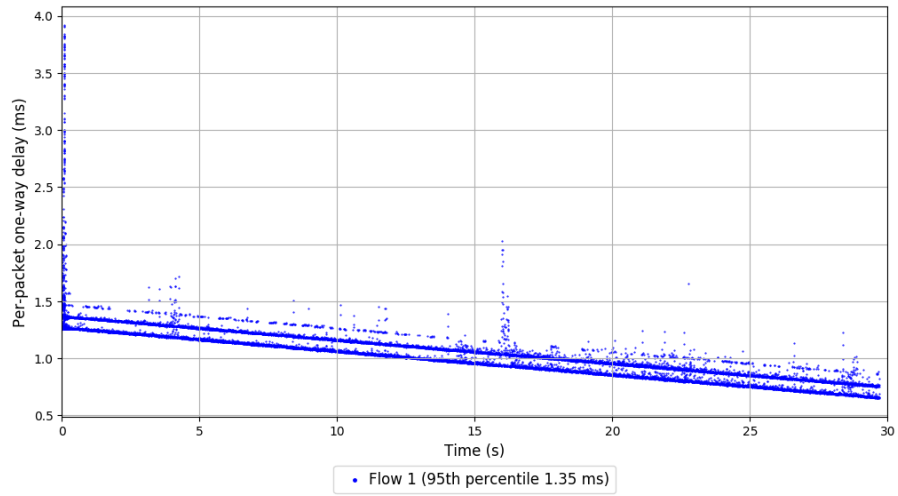
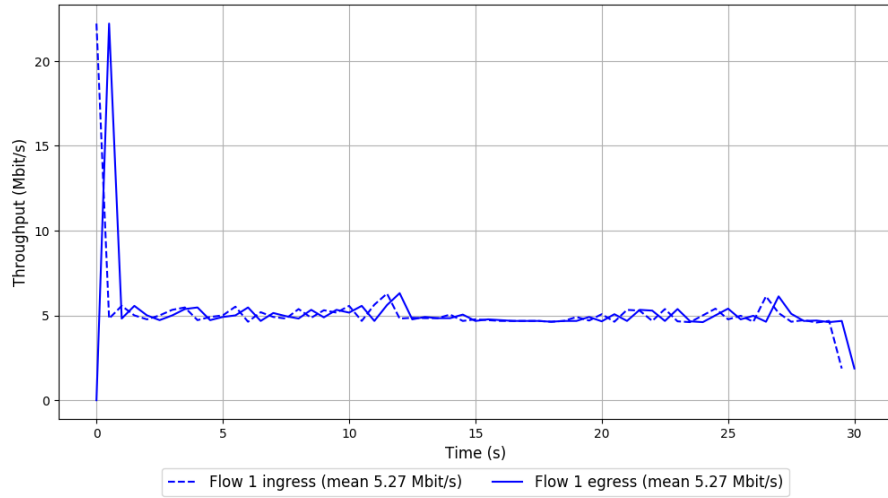
-- Flow 1:

Average throughput: 5.27 Mbit/s

95th percentile per-packet one-way delay: 1.354 ms

Loss rate: 0.00%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-09-18 16:38:29

End at: 2019-09-18 16:38:59

Local clock offset: 8.087 ms

Remote clock offset: 0.513 ms

Below is generated by plot.py at 2019-09-18 17:53:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.00 Mbit/s

95th percentile per-packet one-way delay: 2.910 ms

Loss rate: 0.01%

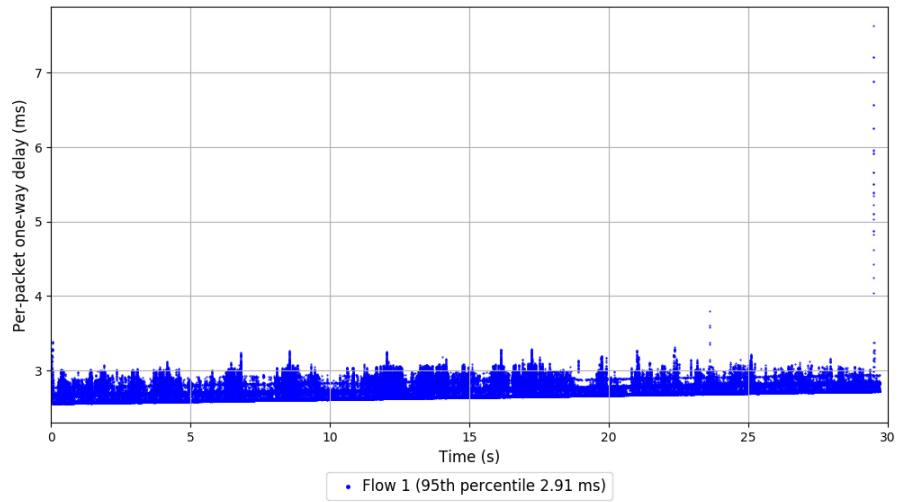
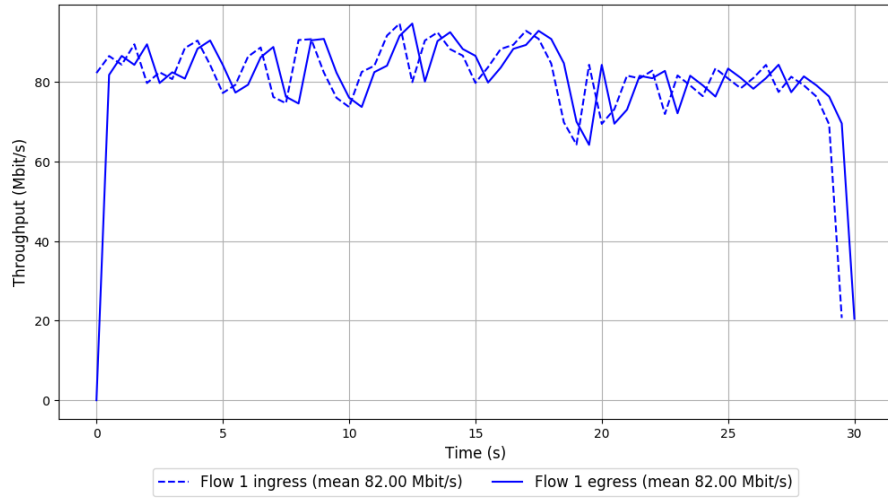
-- Flow 1:

Average throughput: 82.00 Mbit/s

95th percentile per-packet one-way delay: 2.910 ms

Loss rate: 0.01%

Run 3: Report of Muses_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-09-18 17:05:32

End at: 2019-09-18 17:06:02

Local clock offset: 5.047 ms

Remote clock offset: 0.802 ms

Below is generated by plot.py at 2019-09-18 17:53:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.80 Mbit/s

95th percentile per-packet one-way delay: 20.263 ms

Loss rate: 0.01%

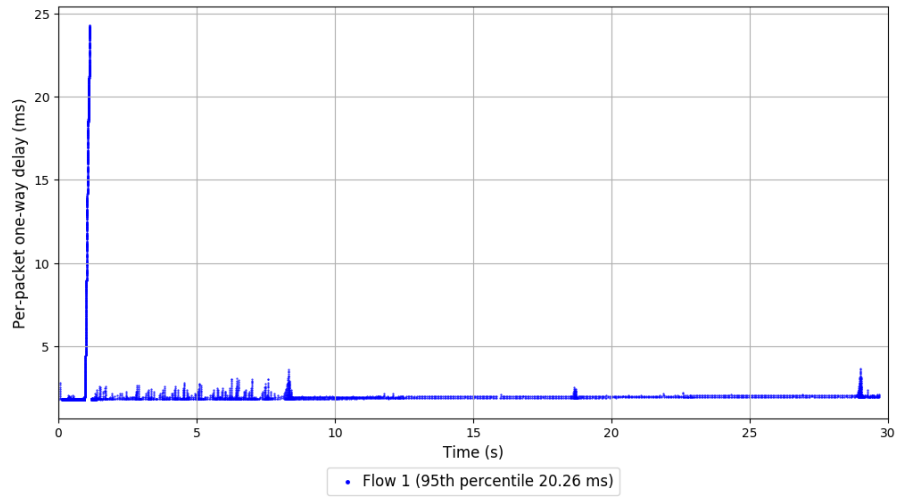
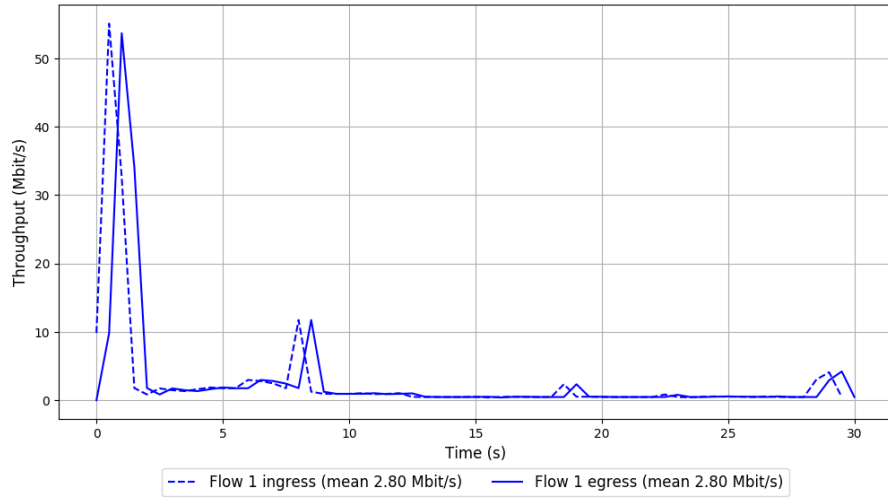
-- Flow 1:

Average throughput: 2.80 Mbit/s

95th percentile per-packet one-way delay: 20.263 ms

Loss rate: 0.01%

Run 4: Report of Muses_DecisionTreeH0 — Data Link



Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-09-18 17:32:24

End at: 2019-09-18 17:32:54

Local clock offset: 3.938 ms

Remote clock offset: 1.091 ms

Below is generated by plot.py at 2019-09-18 17:53:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.20 Mbit/s

95th percentile per-packet one-way delay: 2.063 ms

Loss rate: 0.00%

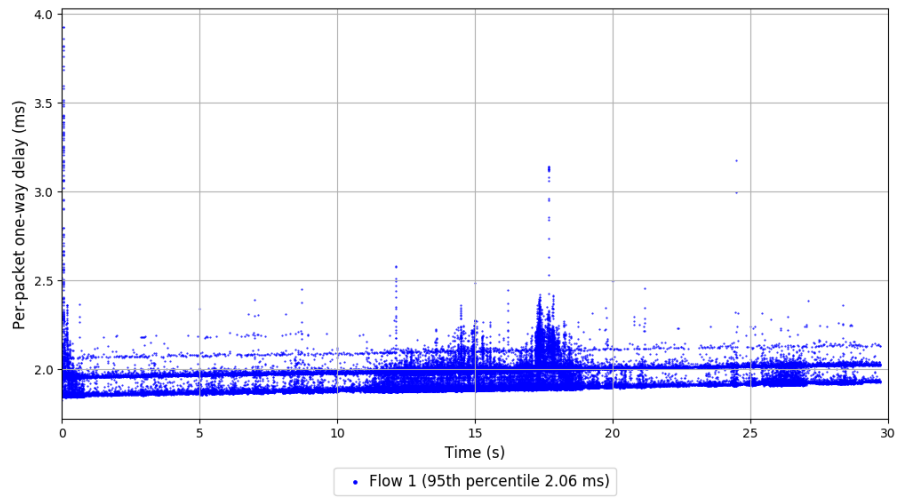
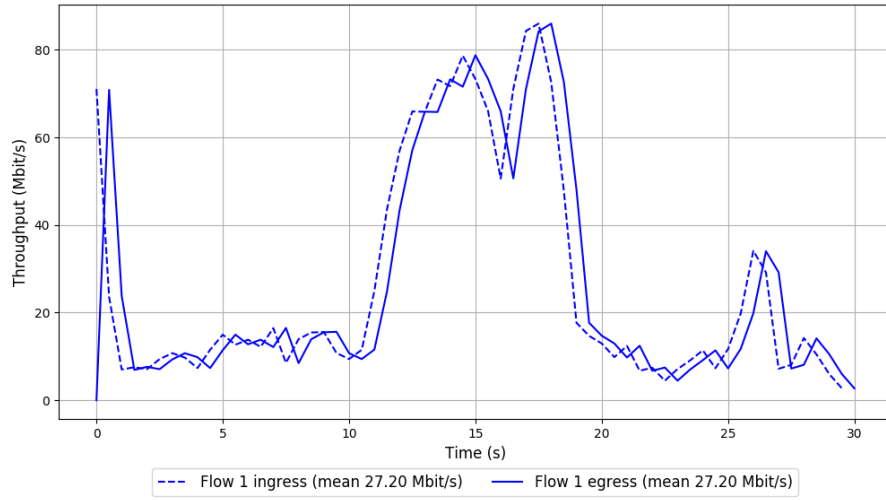
-- Flow 1:

Average throughput: 27.20 Mbit/s

95th percentile per-packet one-way delay: 2.063 ms

Loss rate: 0.00%

Run 5: Report of Muses_DecisionTreeH0 — Data Link

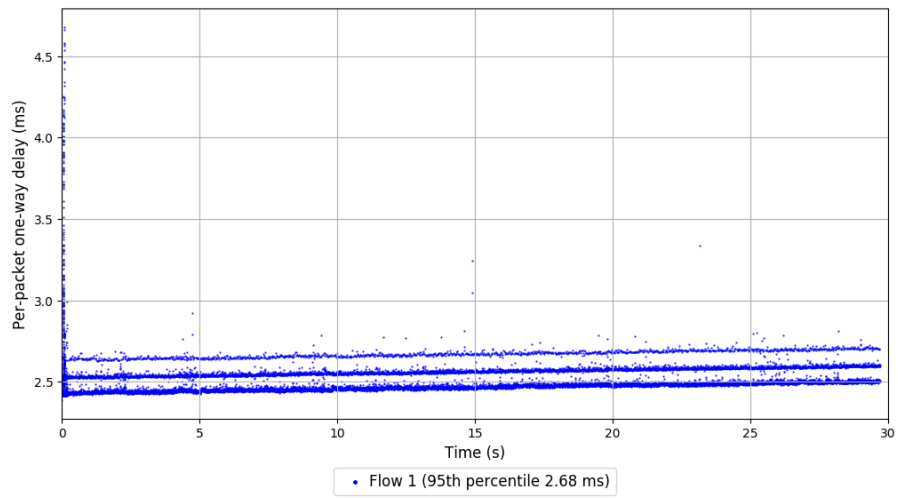
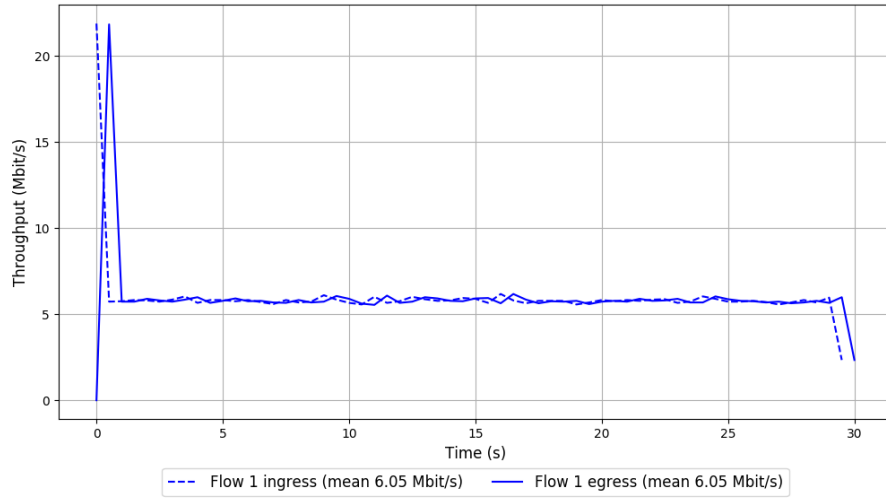


Run 1: Statistics of Muses_DecisionTreeR0

Start at: 2019-09-18 15:41:14
End at: 2019-09-18 15:41:44
Local clock offset: -22.988 ms
Remote clock offset: -0.18 ms

Below is generated by plot.py at 2019-09-18 17:53:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.05 Mbit/s
95th percentile per-packet one-way delay: 2.679 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 6.05 Mbit/s
95th percentile per-packet one-way delay: 2.679 ms
Loss rate: 0.01%

Run 1: Report of Muses_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-09-18 16:08:12

End at: 2019-09-18 16:08:42

Local clock offset: -5.624 ms

Remote clock offset: 0.186 ms

Below is generated by plot.py at 2019-09-18 17:53:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.32 Mbit/s

95th percentile per-packet one-way delay: 1.853 ms

Loss rate: 0.01%

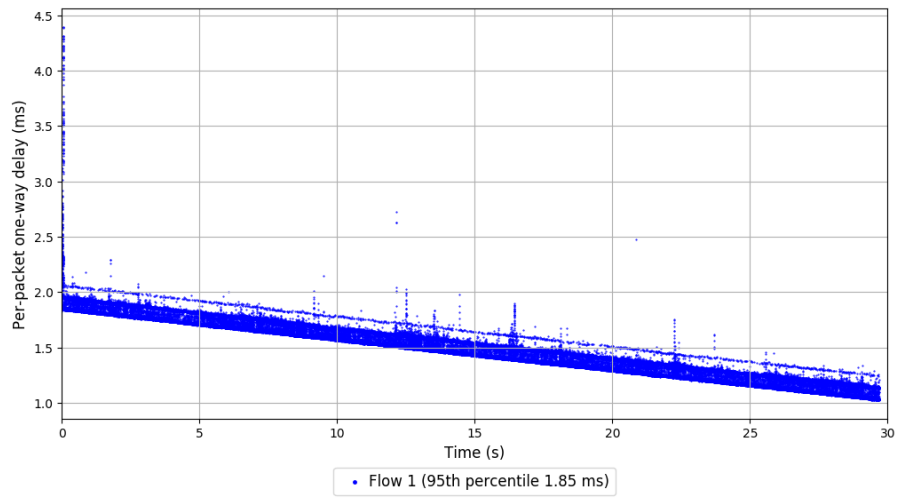
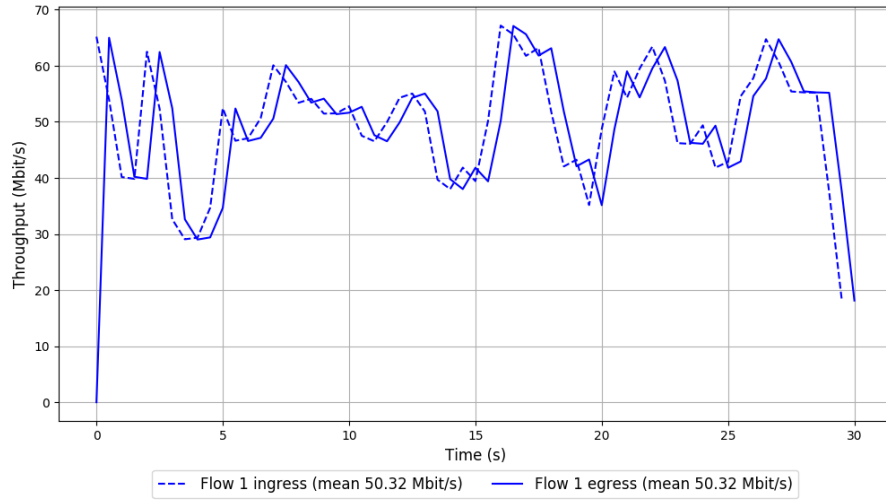
-- Flow 1:

Average throughput: 50.32 Mbit/s

95th percentile per-packet one-way delay: 1.853 ms

Loss rate: 0.01%

Run 2: Report of Muses_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-09-18 16:35:10

End at: 2019-09-18 16:35:40

Local clock offset: 8.918 ms

Remote clock offset: 0.441 ms

Below is generated by plot.py at 2019-09-18 17:53:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.61 Mbit/s

95th percentile per-packet one-way delay: 2.286 ms

Loss rate: 0.01%

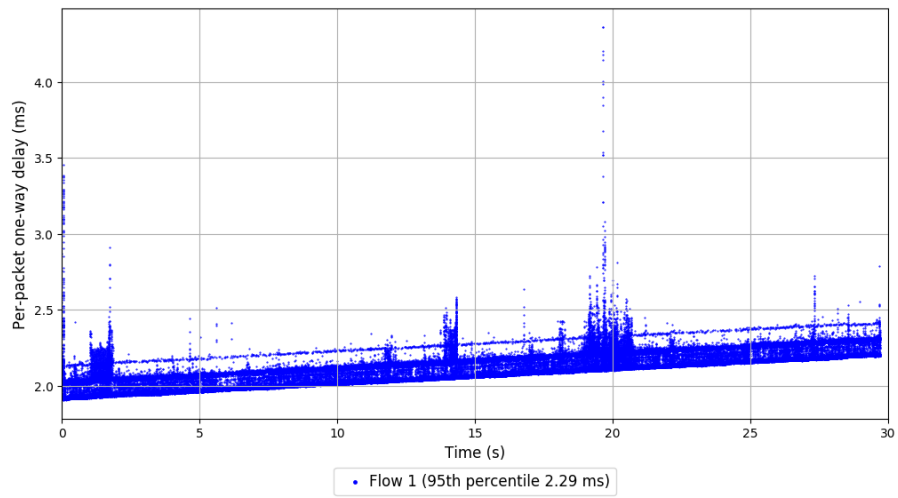
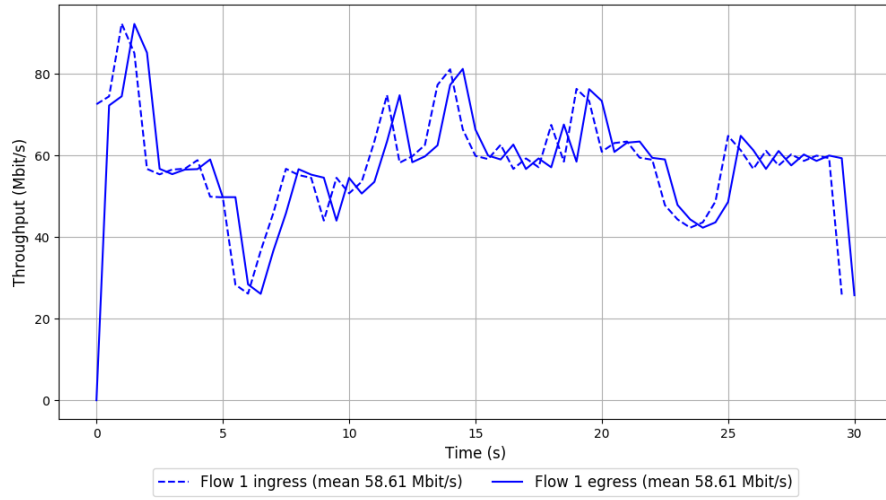
-- Flow 1:

Average throughput: 58.61 Mbit/s

95th percentile per-packet one-way delay: 2.286 ms

Loss rate: 0.01%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-09-18 17:02:14

End at: 2019-09-18 17:02:44

Local clock offset: 7.329 ms

Remote clock offset: 0.756 ms

Below is generated by plot.py at 2019-09-18 17:53:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.95 Mbit/s

95th percentile per-packet one-way delay: 3.131 ms

Loss rate: 0.01%

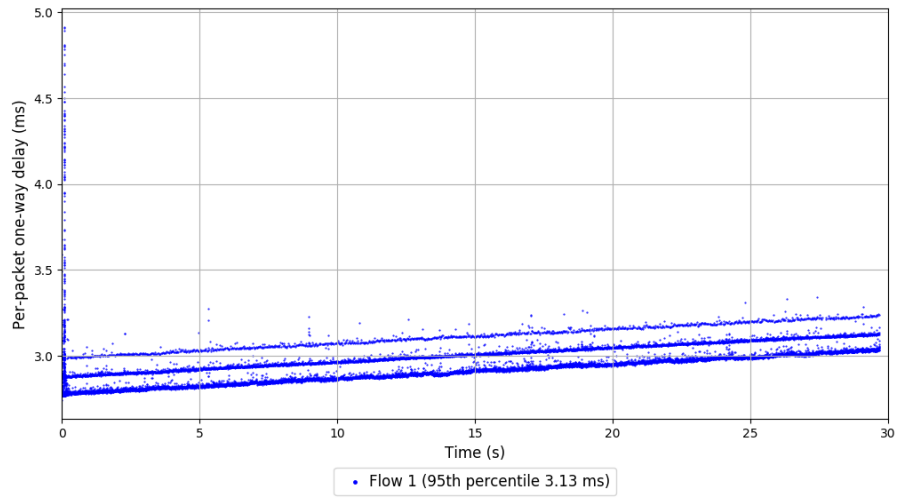
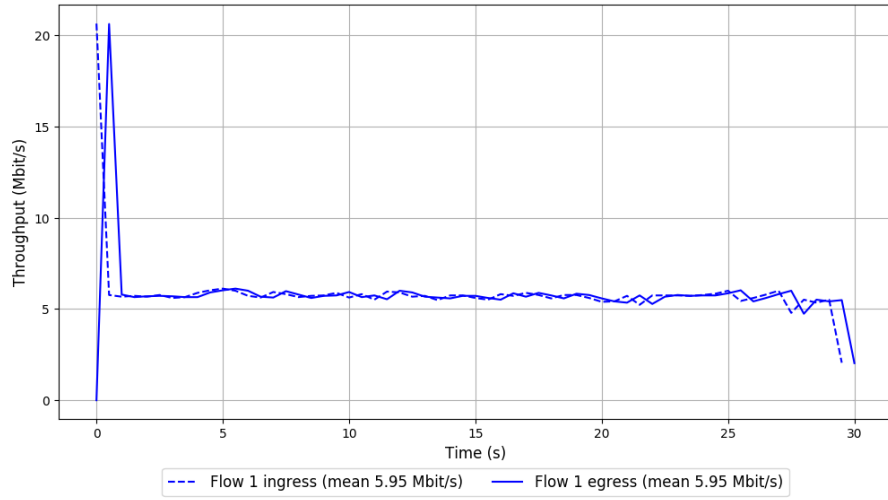
-- Flow 1:

Average throughput: 5.95 Mbit/s

95th percentile per-packet one-way delay: 3.131 ms

Loss rate: 0.01%

Run 4: Report of Muses_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-09-18 17:29:04

End at: 2019-09-18 17:29:34

Local clock offset: 18.665 ms

Remote clock offset: 1.053 ms

Below is generated by plot.py at 2019-09-18 17:53:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.23 Mbit/s

95th percentile per-packet one-way delay: 16.359 ms

Loss rate: 0.00%

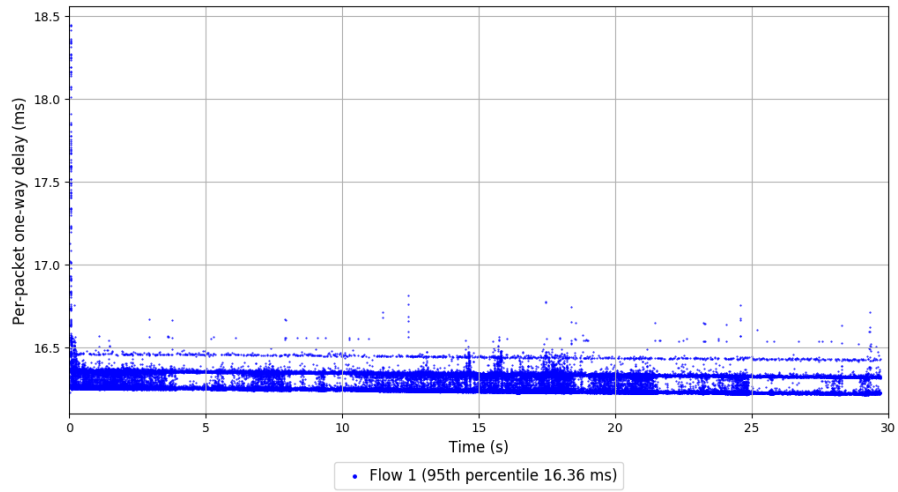
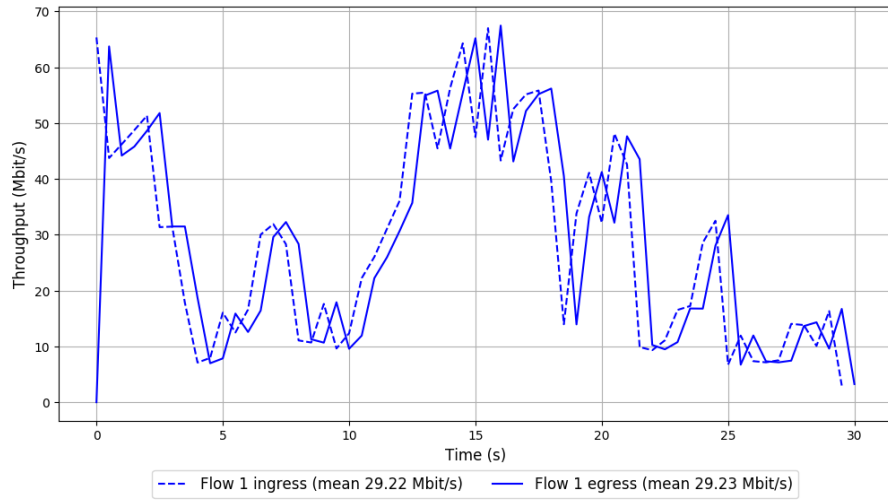
-- Flow 1:

Average throughput: 29.23 Mbit/s

95th percentile per-packet one-way delay: 16.359 ms

Loss rate: 0.00%

Run 5: Report of Muses_DecisionTreeR0 — Data Link

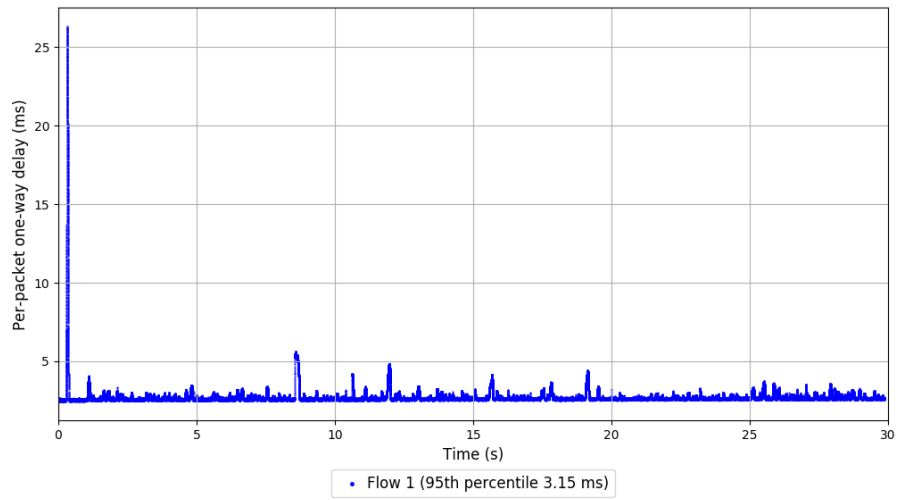
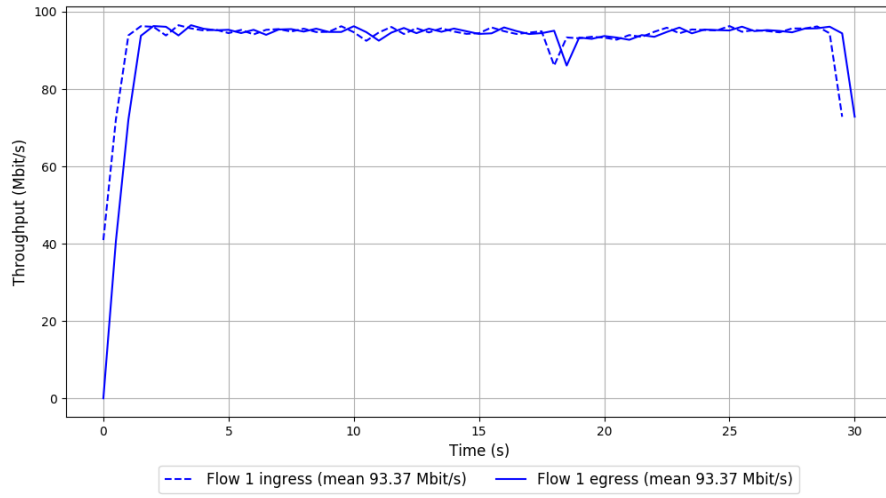


Run 1: Statistics of PCC-Allegro

Start at: 2019-09-18 15:31:13
End at: 2019-09-18 15:31:43
Local clock offset: -21.625 ms
Remote clock offset: -0.359 ms

Below is generated by plot.py at 2019-09-18 17:54:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.37 Mbit/s
95th percentile per-packet one-way delay: 3.148 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 93.37 Mbit/s
95th percentile per-packet one-way delay: 3.148 ms
Loss rate: 0.01%

Run 1: Report of PCC-Allegro — Data Link

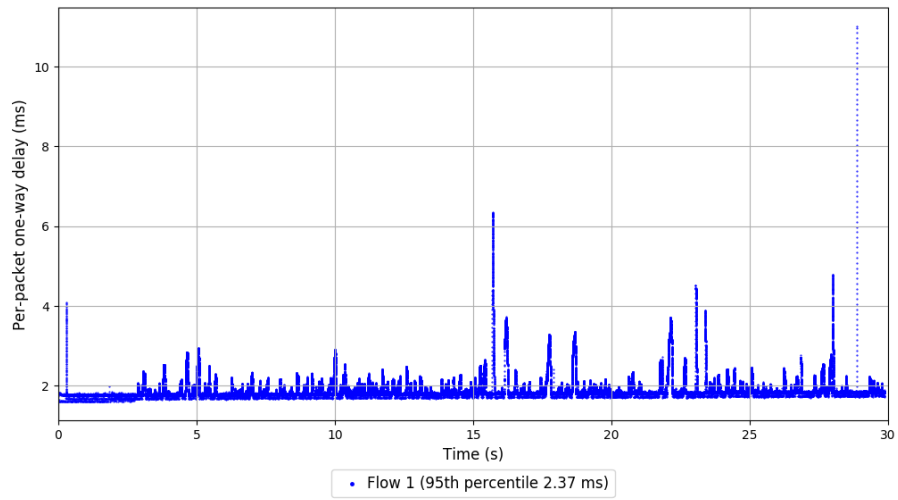
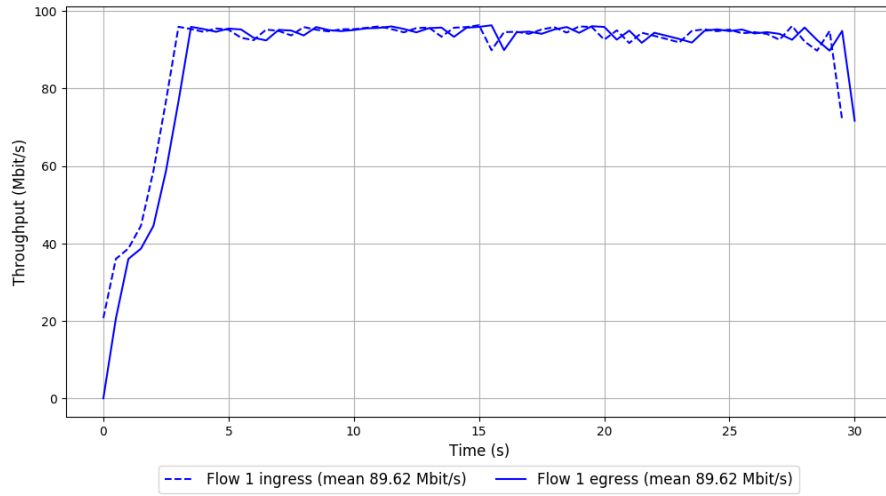


Run 2: Statistics of PCC-Allegro

Start at: 2019-09-18 15:58:08
End at: 2019-09-18 15:58:38
Local clock offset: -25.996 ms
Remote clock offset: 0.006 ms

Below is generated by plot.py at 2019-09-18 17:54:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.62 Mbit/s
95th percentile per-packet one-way delay: 2.372 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 89.62 Mbit/s
95th percentile per-packet one-way delay: 2.372 ms
Loss rate: 0.01%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-09-18 16:25:06

End at: 2019-09-18 16:25:36

Local clock offset: 11.089 ms

Remote clock offset: 0.318 ms

Below is generated by plot.py at 2019-09-18 17:54:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.14 Mbit/s

95th percentile per-packet one-way delay: 2.958 ms

Loss rate: 0.01%

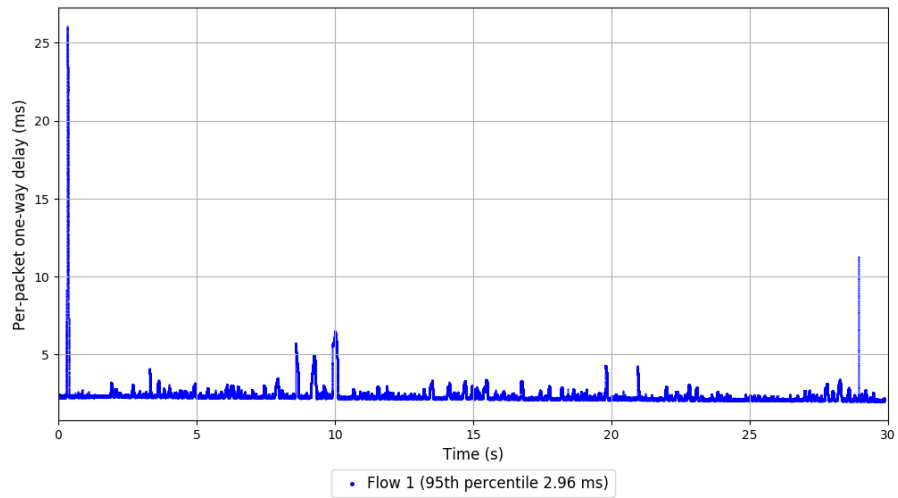
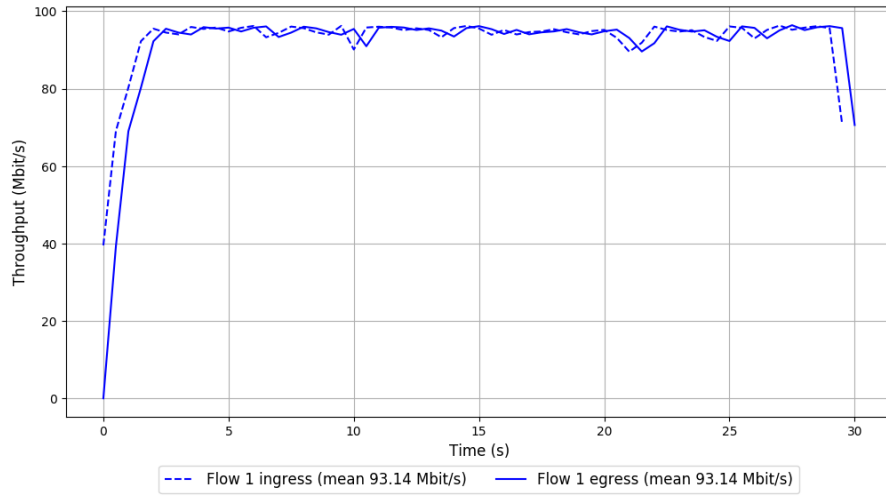
-- Flow 1:

Average throughput: 93.14 Mbit/s

95th percentile per-packet one-way delay: 2.958 ms

Loss rate: 0.01%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-09-18 16:52:08

End at: 2019-09-18 16:52:38

Local clock offset: 6.364 ms

Remote clock offset: 0.684 ms

Below is generated by plot.py at 2019-09-18 17:54:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.60 Mbit/s

95th percentile per-packet one-way delay: 2.394 ms

Loss rate: 0.01%

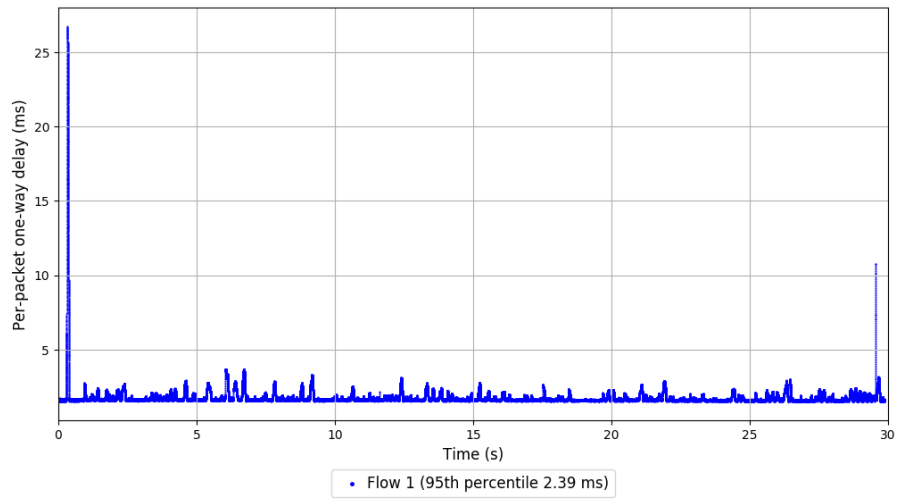
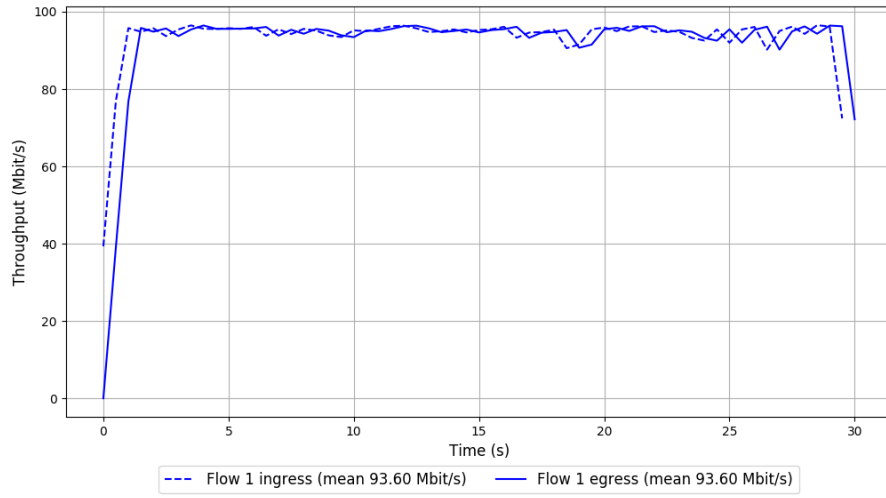
-- Flow 1:

Average throughput: 93.60 Mbit/s

95th percentile per-packet one-way delay: 2.394 ms

Loss rate: 0.01%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-09-18 17:18:58

End at: 2019-09-18 17:19:28

Local clock offset: 3.476 ms

Remote clock offset: 0.954 ms

Below is generated by plot.py at 2019-09-18 17:54:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.32 Mbit/s

95th percentile per-packet one-way delay: 2.728 ms

Loss rate: 0.01%

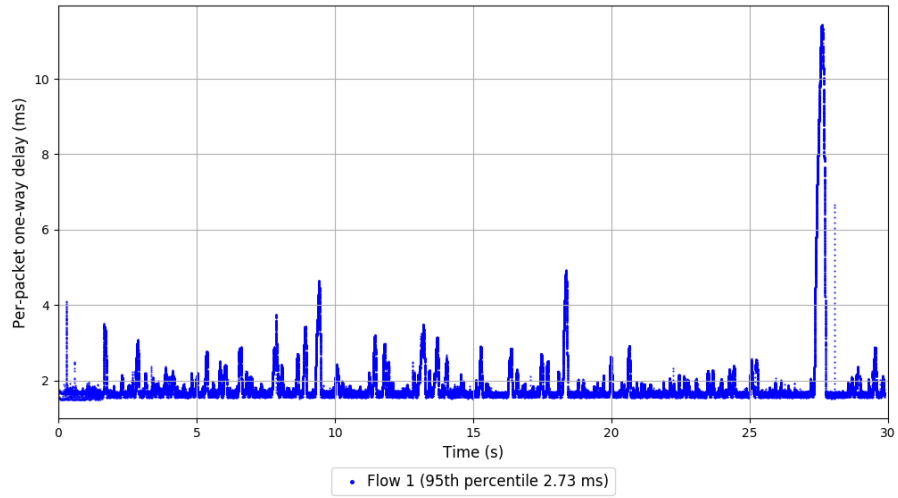
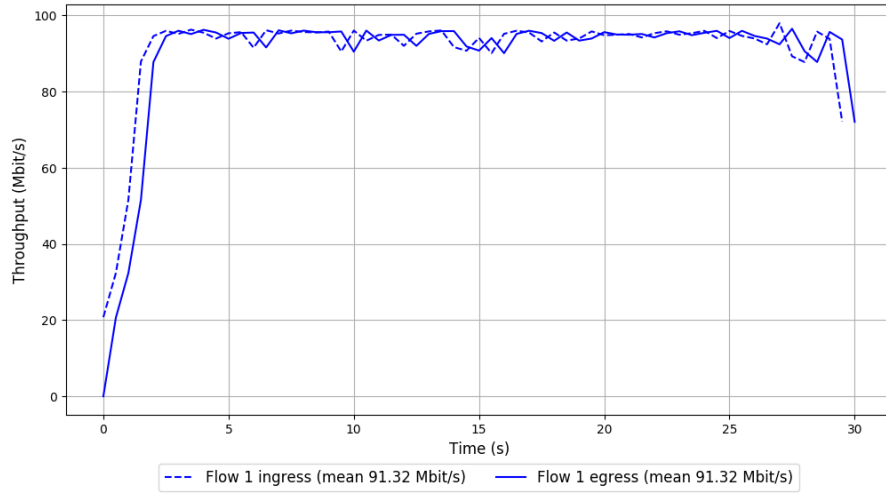
-- Flow 1:

Average throughput: 91.32 Mbit/s

95th percentile per-packet one-way delay: 2.728 ms

Loss rate: 0.01%

Run 5: Report of PCC-Allegro — Data Link

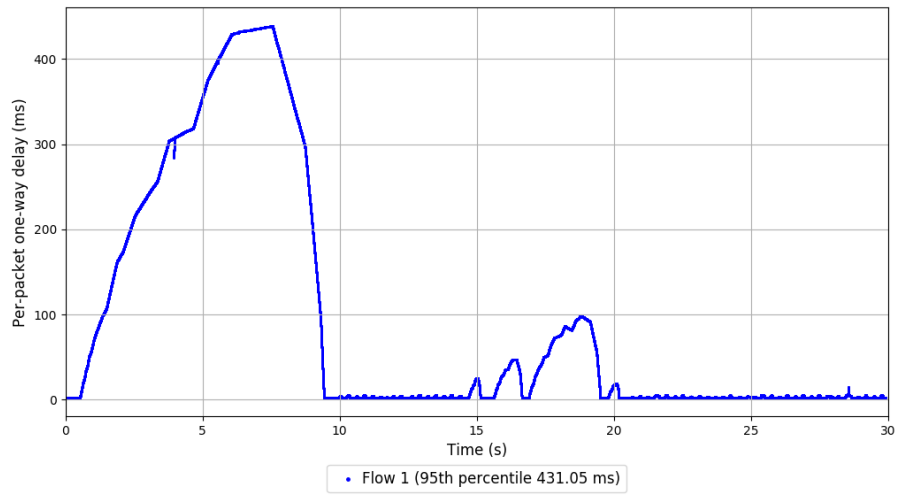
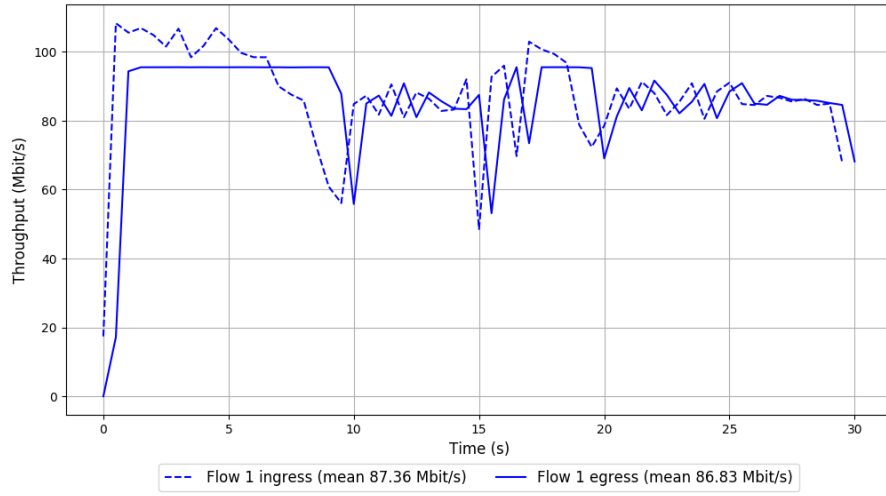


Run 1: Statistics of PCC-Expr

Start at: 2019-09-18 15:52:25
End at: 2019-09-18 15:52:56
Local clock offset: -25.258 ms
Remote clock offset: -0.163 ms

Below is generated by plot.py at 2019-09-18 17:55:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.83 Mbit/s
95th percentile per-packet one-way delay: 431.048 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 86.83 Mbit/s
95th percentile per-packet one-way delay: 431.048 ms
Loss rate: 0.64%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-09-18 16:19:23

End at: 2019-09-18 16:19:53

Local clock offset: 7.265 ms

Remote clock offset: 0.277 ms

Below is generated by plot.py at 2019-09-18 17:55:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.57 Mbit/s

95th percentile per-packet one-way delay: 642.975 ms

Loss rate: 4.20%

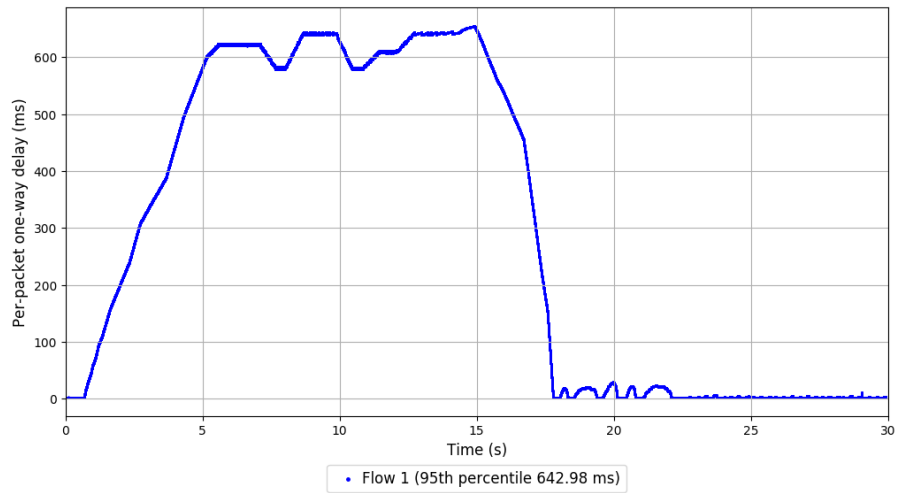
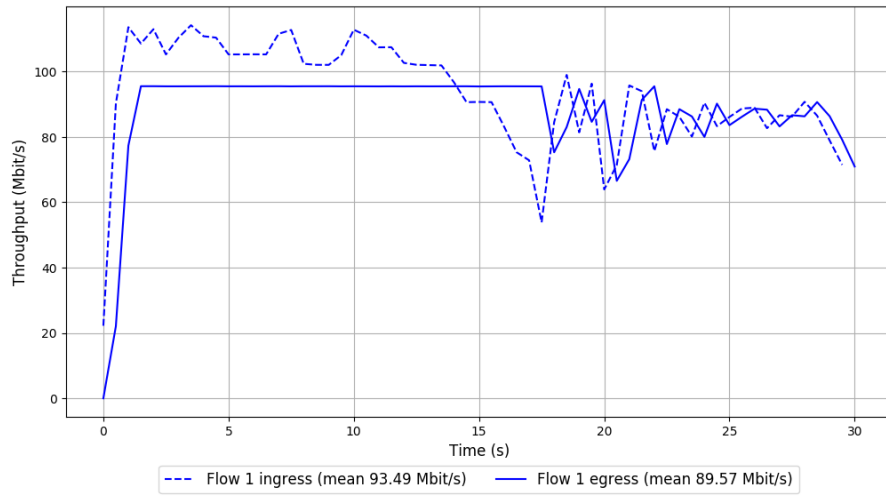
-- Flow 1:

Average throughput: 89.57 Mbit/s

95th percentile per-packet one-way delay: 642.975 ms

Loss rate: 4.20%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-09-18 16:46:25

End at: 2019-09-18 16:46:55

Local clock offset: 6.064 ms

Remote clock offset: 0.536 ms

Below is generated by plot.py at 2019-09-18 17:55:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.11 Mbit/s

95th percentile per-packet one-way delay: 655.660 ms

Loss rate: 5.70%

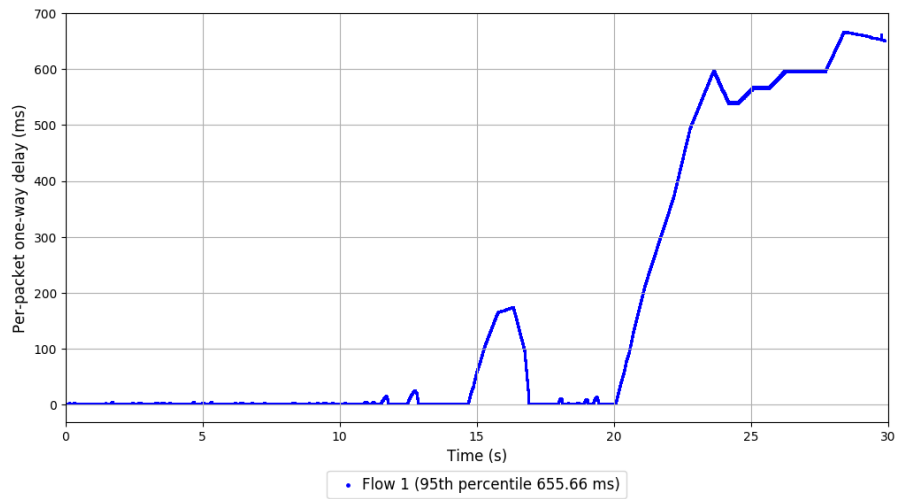
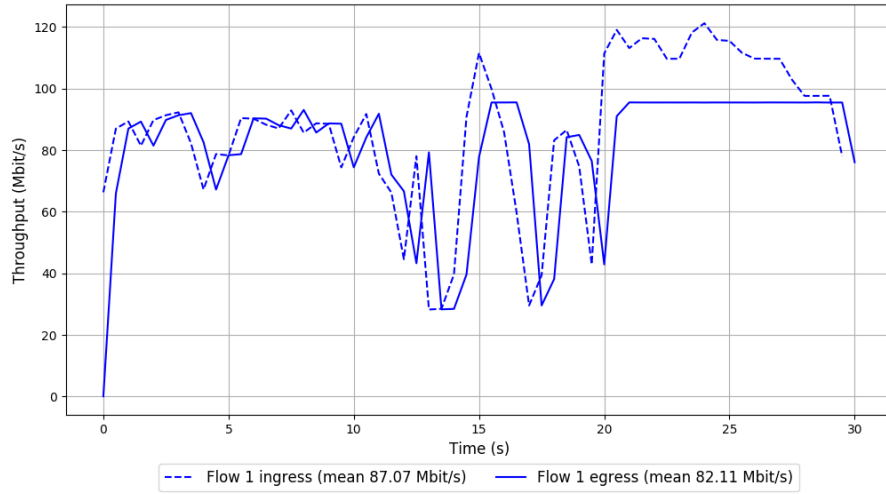
-- Flow 1:

Average throughput: 82.11 Mbit/s

95th percentile per-packet one-way delay: 655.660 ms

Loss rate: 5.70%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-09-18 17:13:18

End at: 2019-09-18 17:13:48

Local clock offset: 24.182 ms

Remote clock offset: 0.914 ms

Below is generated by plot.py at 2019-09-18 17:56:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.14 Mbit/s

95th percentile per-packet one-way delay: 402.197 ms

Loss rate: 0.52%

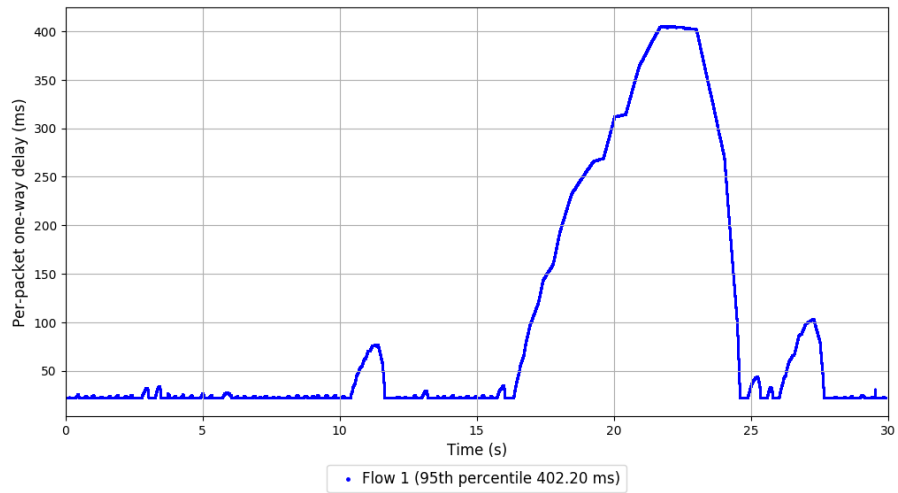
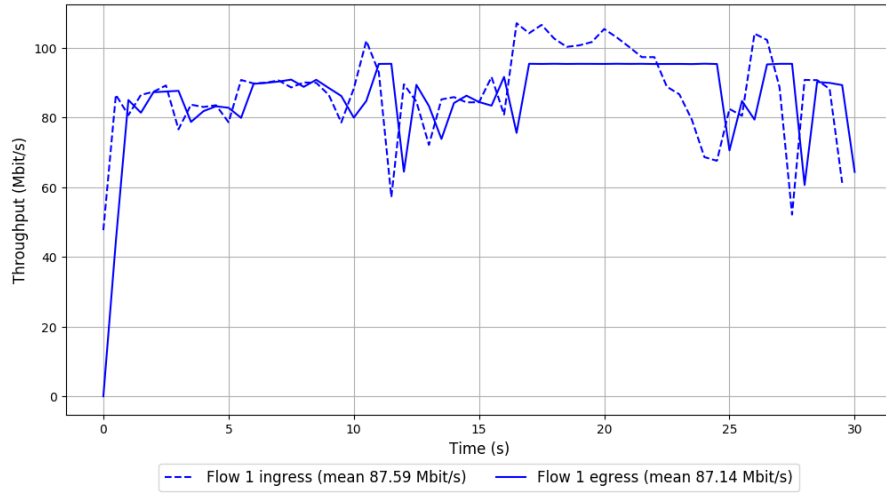
-- Flow 1:

Average throughput: 87.14 Mbit/s

95th percentile per-packet one-way delay: 402.197 ms

Loss rate: 0.52%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-09-18 17:40:16

End at: 2019-09-18 17:40:46

Local clock offset: 23.413 ms

Remote clock offset: 1.256 ms

Below is generated by plot.py at 2019-09-18 17:56:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.13 Mbit/s

95th percentile per-packet one-way delay: 24.486 ms

Loss rate: 0.02%

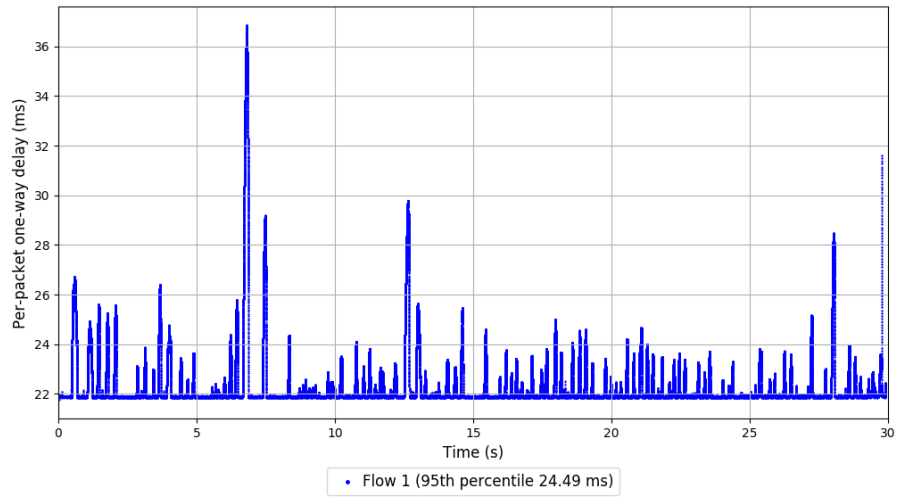
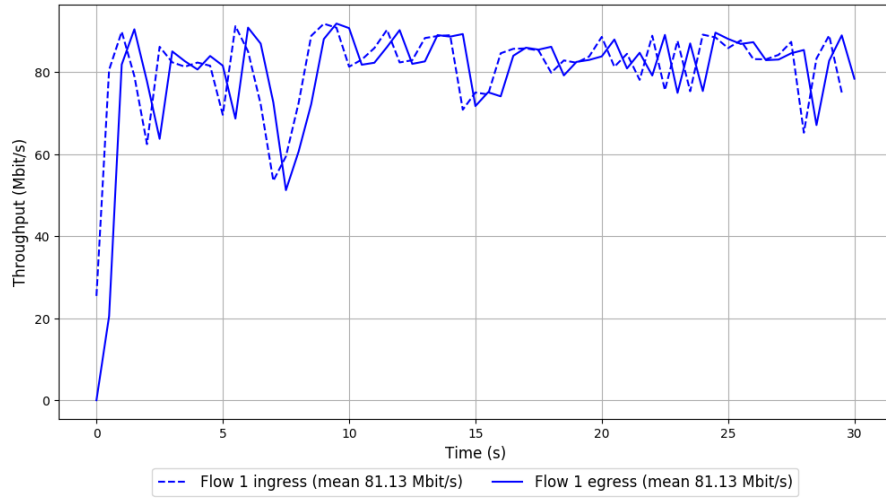
-- Flow 1:

Average throughput: 81.13 Mbit/s

95th percentile per-packet one-way delay: 24.486 ms

Loss rate: 0.02%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-09-18 15:45:39
End at: 2019-09-18 15:46:09
Local clock offset: -23.505 ms
Remote clock offset: -0.221 ms

Below is generated by plot.py at 2019-09-18 17:56:33

Datalink statistics

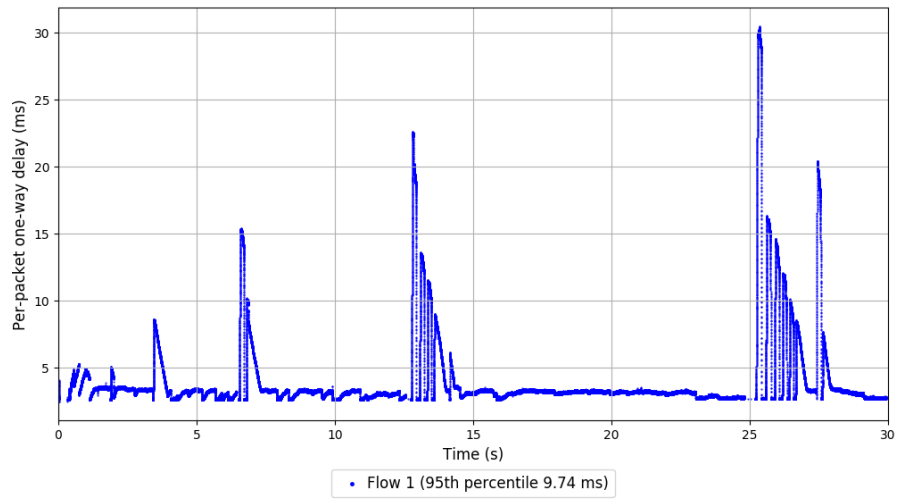
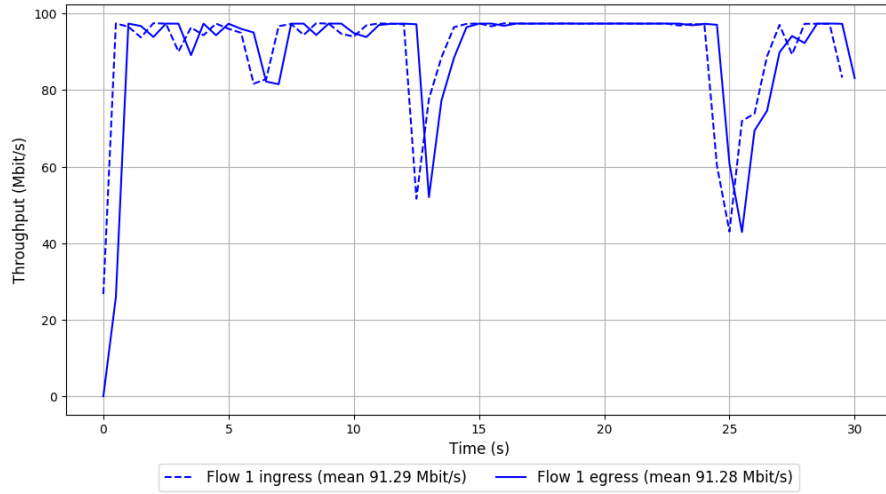
-- Total of 1 flow:

Average throughput: 91.28 Mbit/s
95th percentile per-packet one-way delay: 9.738 ms
Loss rate: 0.02%

-- Flow 1:

Average throughput: 91.28 Mbit/s
95th percentile per-packet one-way delay: 9.738 ms
Loss rate: 0.02%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-09-18 16:12:37

End at: 2019-09-18 16:13:07

Local clock offset: 0.845 ms

Remote clock offset: 0.174 ms

Below is generated by plot.py at 2019-09-18 17:56:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.10 Mbit/s

95th percentile per-packet one-way delay: 6.610 ms

Loss rate: 0.01%

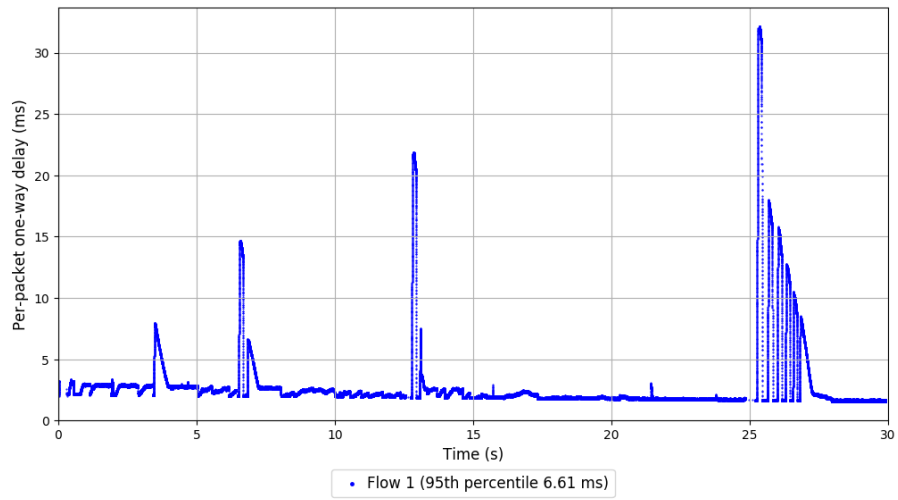
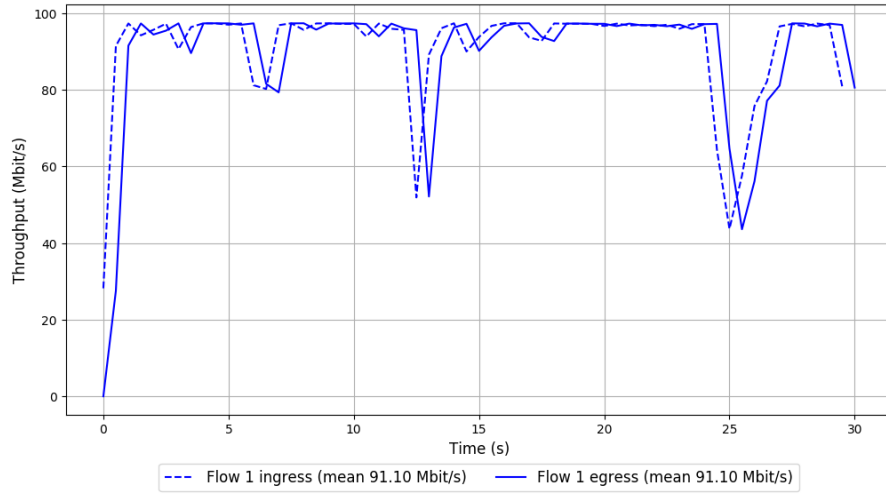
-- Flow 1:

Average throughput: 91.10 Mbit/s

95th percentile per-packet one-way delay: 6.610 ms

Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-09-18 16:39:37

End at: 2019-09-18 16:40:07

Local clock offset: 7.67 ms

Remote clock offset: 0.519 ms

Below is generated by plot.py at 2019-09-18 17:56:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.18 Mbit/s

95th percentile per-packet one-way delay: 7.981 ms

Loss rate: 0.02%

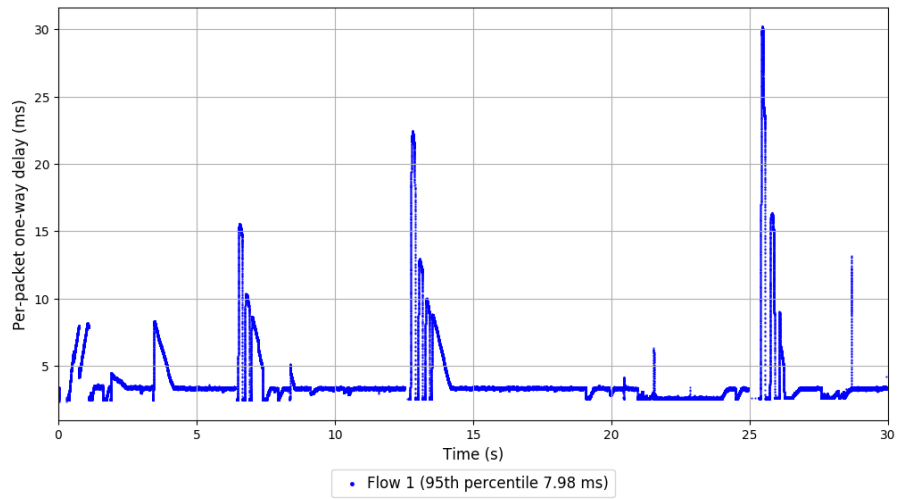
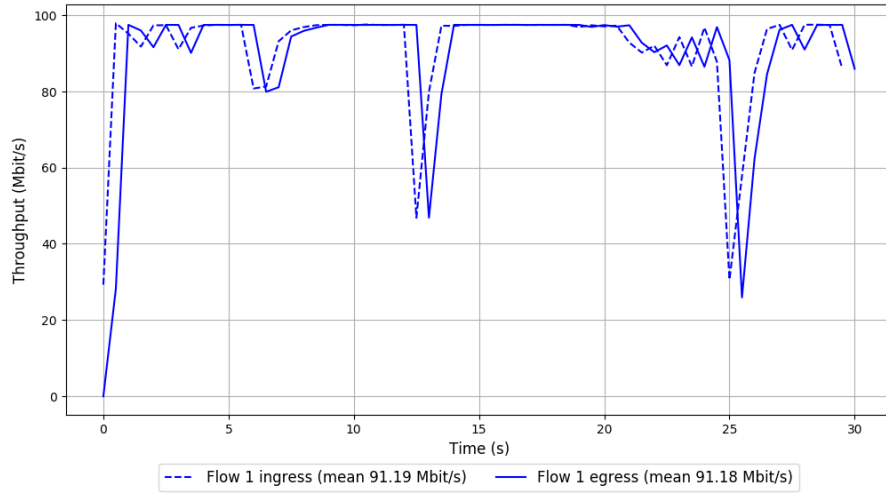
-- Flow 1:

Average throughput: 91.18 Mbit/s

95th percentile per-packet one-way delay: 7.981 ms

Loss rate: 0.02%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-09-18 17:06:36

End at: 2019-09-18 17:07:06

Local clock offset: 4.704 ms

Remote clock offset: 0.825 ms

Below is generated by plot.py at 2019-09-18 17:56:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.01 Mbit/s

95th percentile per-packet one-way delay: 9.841 ms

Loss rate: 0.02%

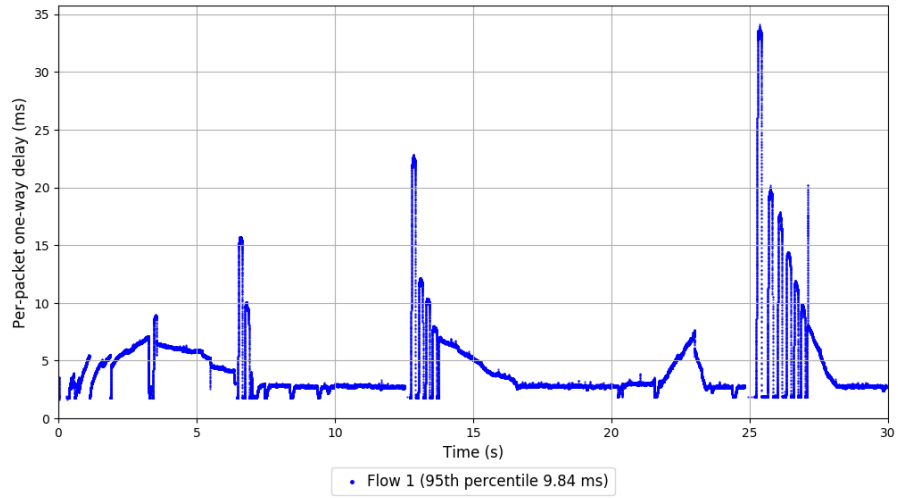
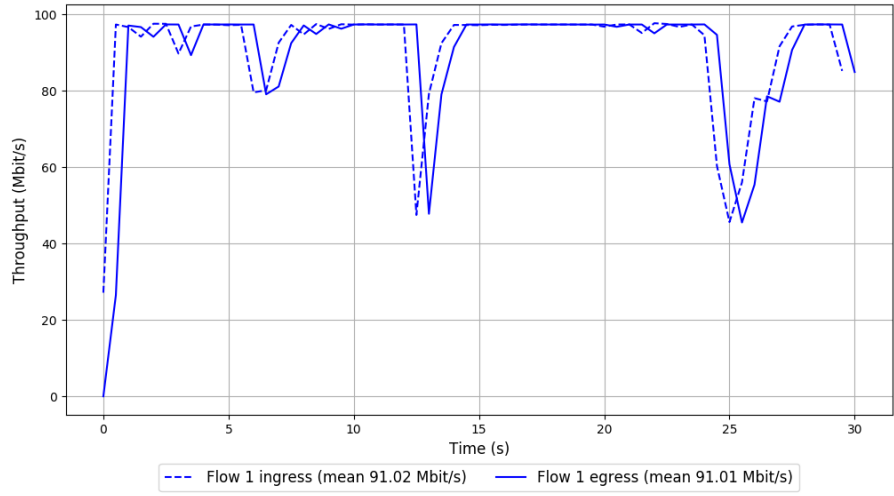
-- Flow 1:

Average throughput: 91.01 Mbit/s

95th percentile per-packet one-way delay: 9.841 ms

Loss rate: 0.02%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-09-18 17:33:29

End at: 2019-09-18 17:33:59

Local clock offset: 3.787 ms

Remote clock offset: 1.175 ms

Below is generated by plot.py at 2019-09-18 17:56:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.05 Mbit/s

95th percentile per-packet one-way delay: 6.586 ms

Loss rate: 0.02%

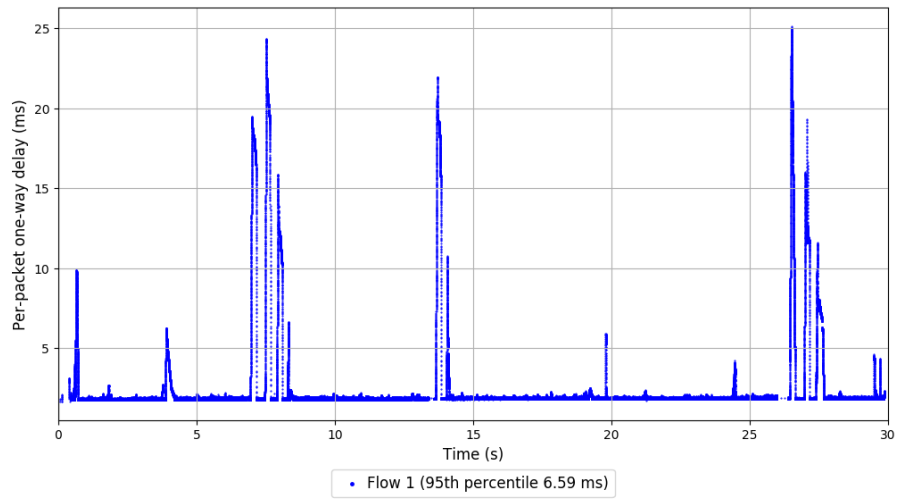
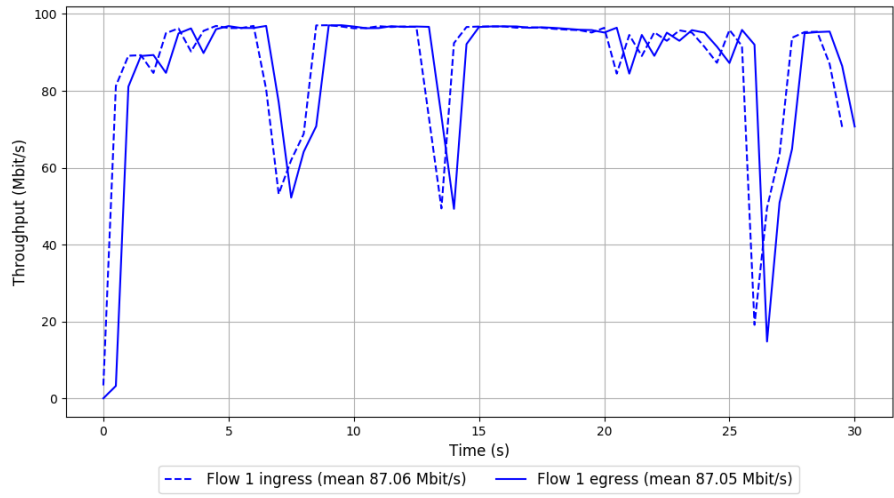
-- Flow 1:

Average throughput: 87.05 Mbit/s

95th percentile per-packet one-way delay: 6.586 ms

Loss rate: 0.02%

Run 5: Report of QUIC Cubic — Data Link

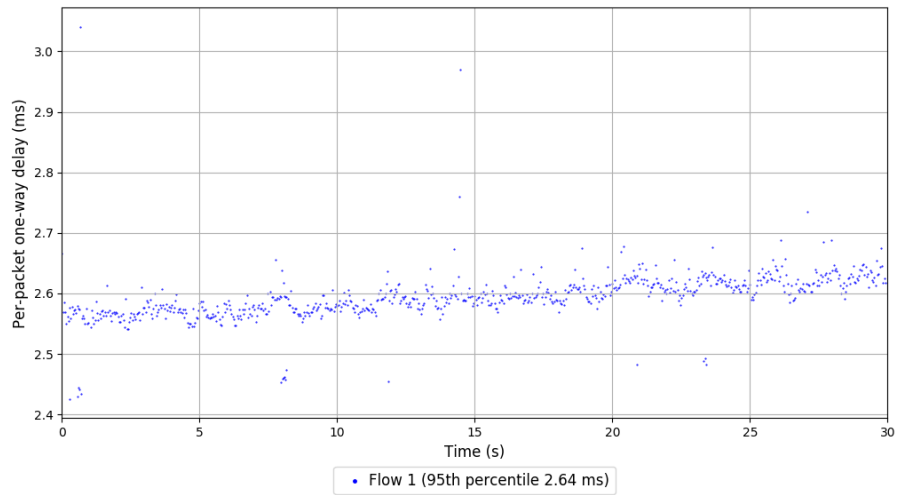
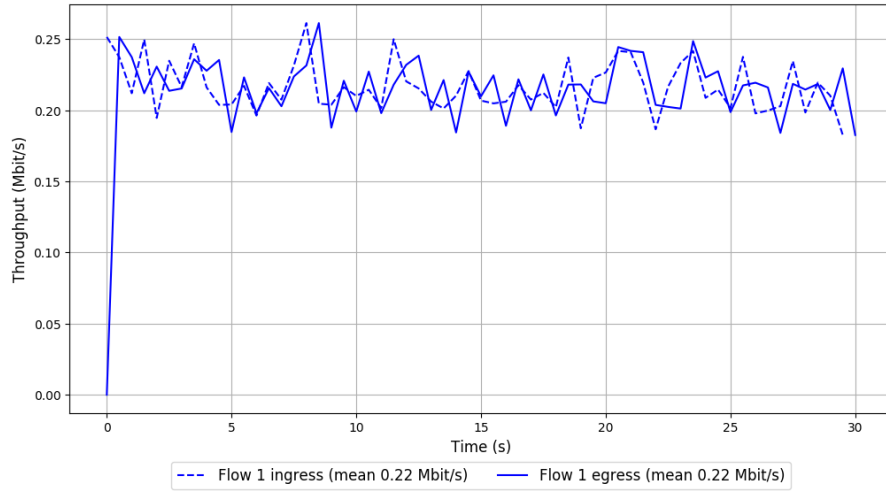


Run 1: Statistics of SCReAM

Start at: 2019-09-18 15:32:20
End at: 2019-09-18 15:32:50
Local clock offset: -21.736 ms
Remote clock offset: -0.295 ms

Below is generated by plot.py at 2019-09-18 17:56:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.639 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.639 ms
Loss rate: 0.00%

Run 1: Report of SCReAM — Data Link

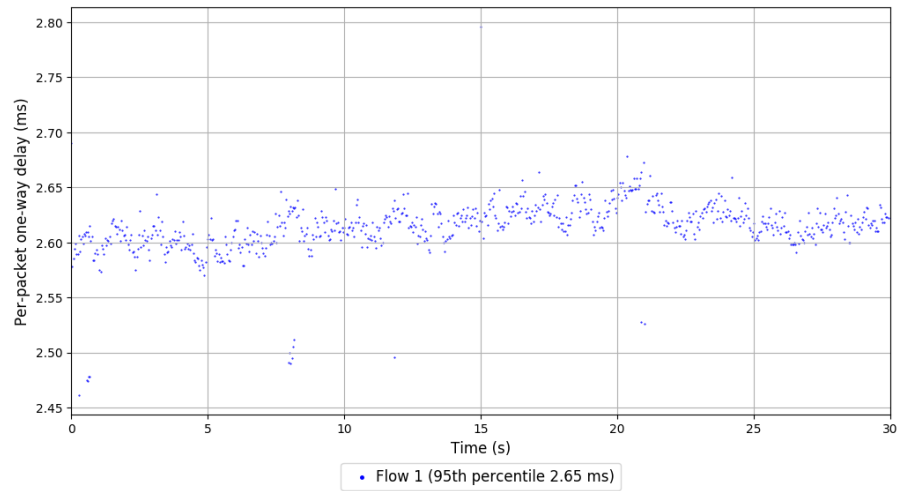
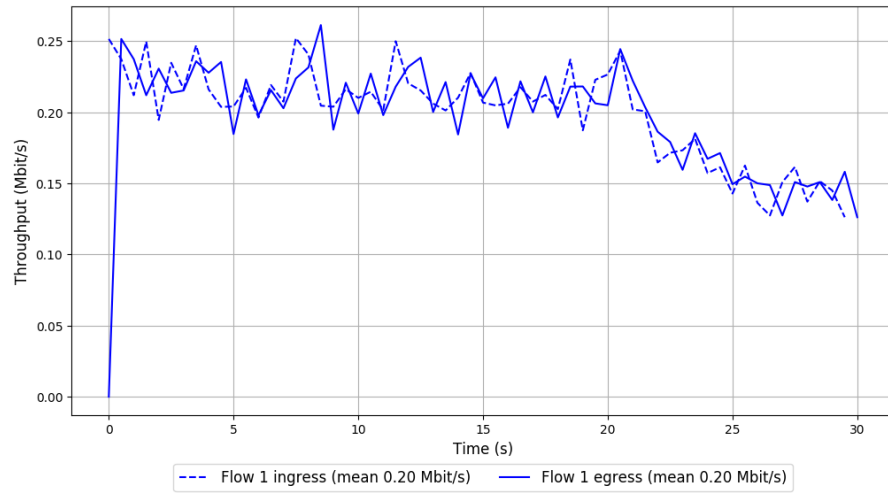


Run 2: Statistics of SCReAM

Start at: 2019-09-18 15:59:15
End at: 2019-09-18 15:59:45
Local clock offset: -25.387 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2019-09-18 17:56:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 2.645 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 2.645 ms
Loss rate: 0.16%

Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-09-18 16:26:13

End at: 2019-09-18 16:26:43

Local clock offset: 10.823 ms

Remote clock offset: 0.361 ms

Below is generated by plot.py at 2019-09-18 17:56:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.390 ms

Loss rate: 0.00%

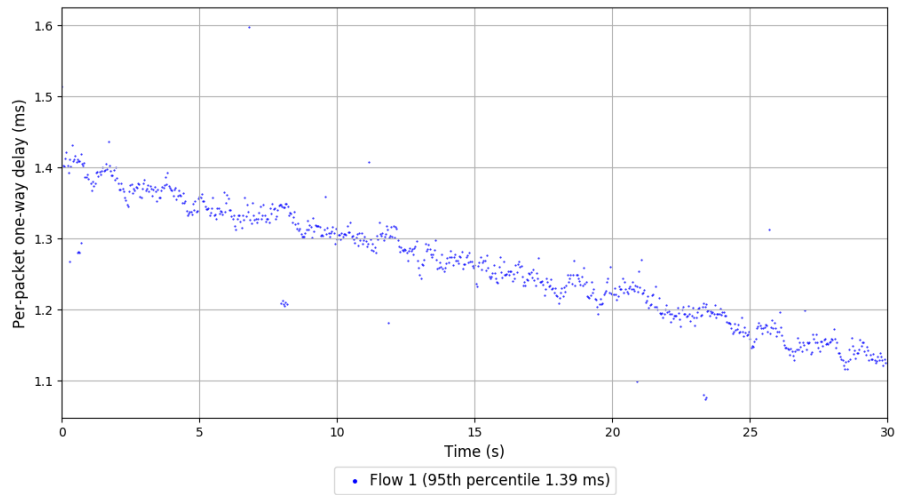
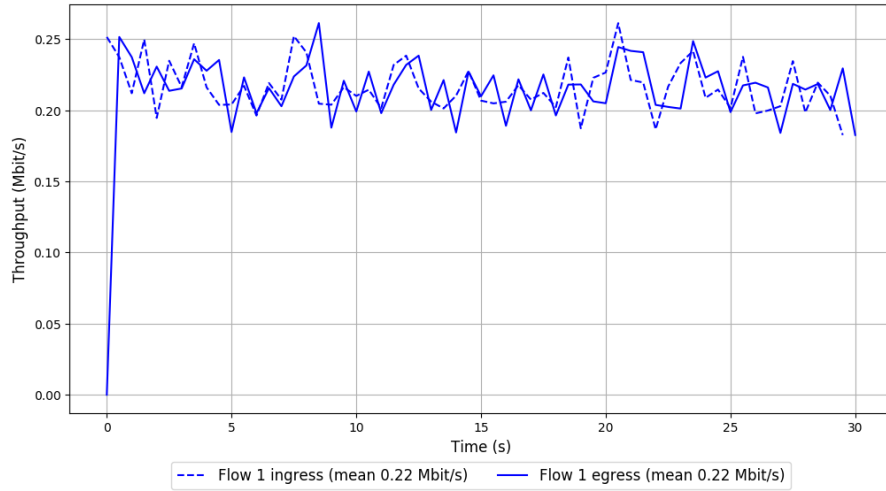
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.390 ms

Loss rate: 0.00%

Run 3: Report of SCReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-09-18 16:53:16

End at: 2019-09-18 16:53:46

Local clock offset: 6.426 ms

Remote clock offset: 0.679 ms

Below is generated by plot.py at 2019-09-18 17:56:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.613 ms

Loss rate: 0.00%

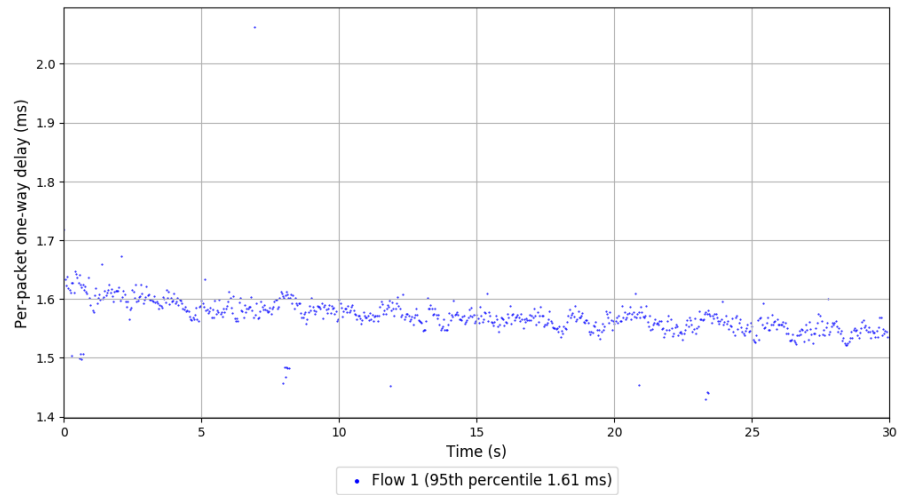
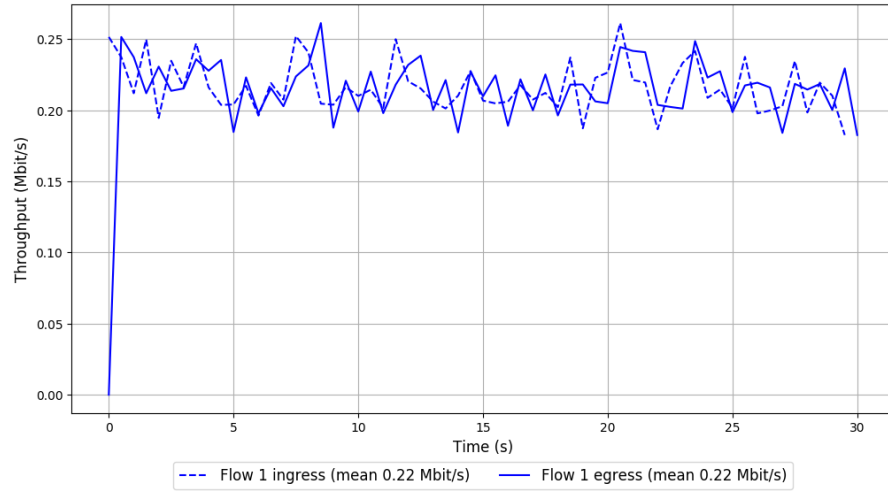
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.613 ms

Loss rate: 0.00%

Run 4: Report of SCReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-09-18 17:20:05

End at: 2019-09-18 17:20:35

Local clock offset: 27.005 ms

Remote clock offset: 0.907 ms

Below is generated by plot.py at 2019-09-18 17:56:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 25.226 ms

Loss rate: 0.00%

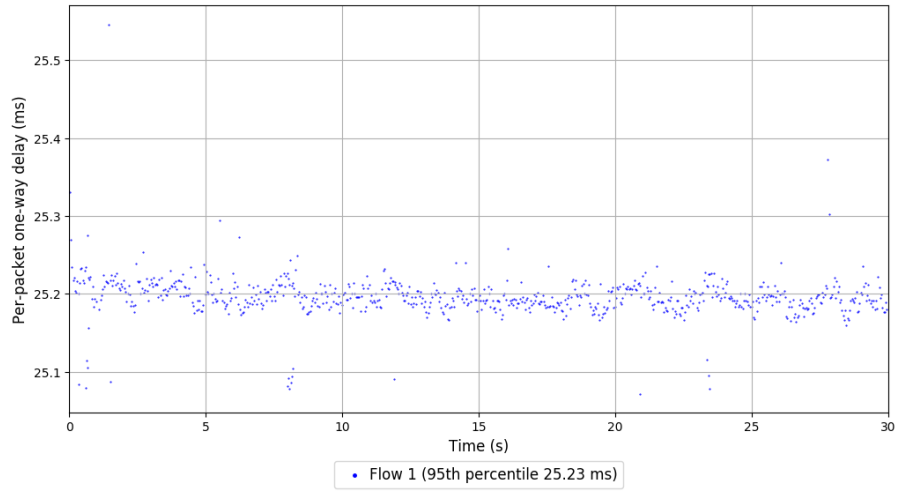
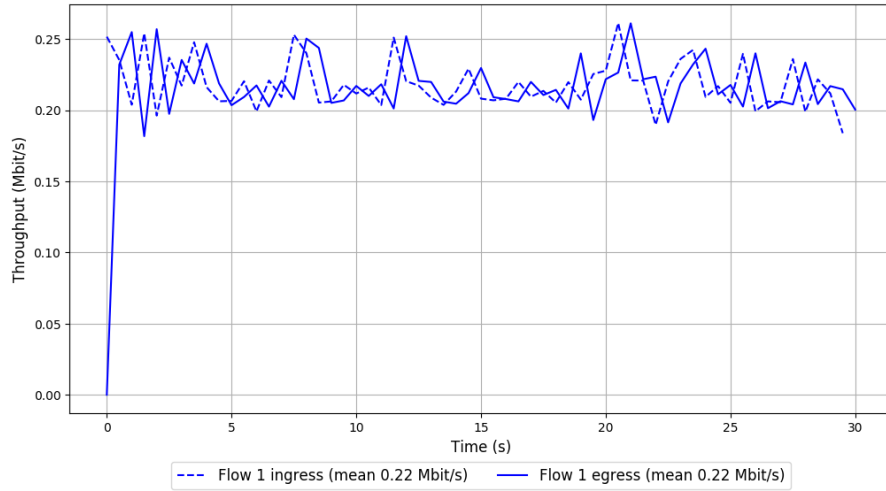
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 25.226 ms

Loss rate: 0.00%

Run 5: Report of SCReAM — Data Link

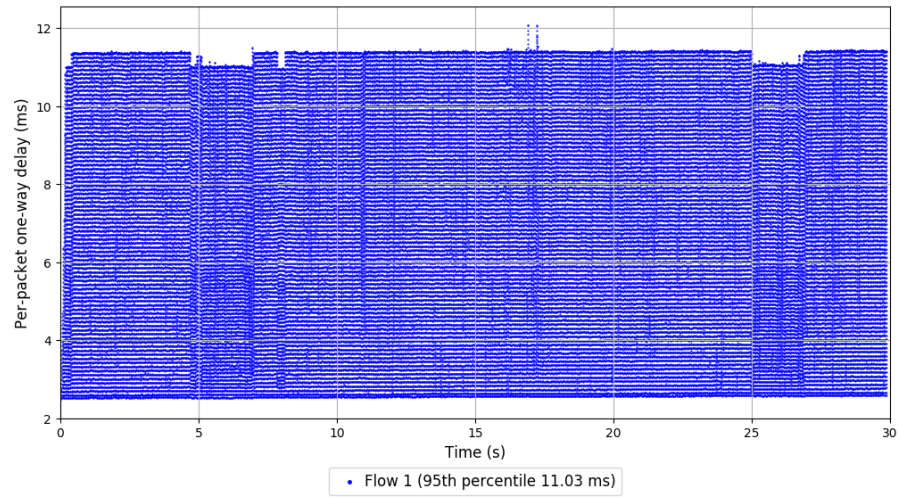
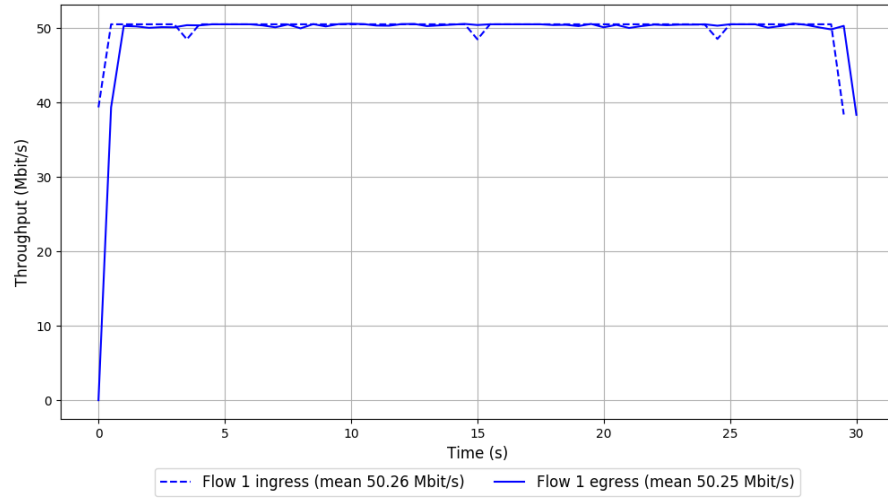


Run 1: Statistics of Sprout

Start at: 2019-09-18 15:42:19
End at: 2019-09-18 15:42:49
Local clock offset: -23.118 ms
Remote clock offset: -0.235 ms

Below is generated by plot.py at 2019-09-18 17:56:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.25 Mbit/s
95th percentile per-packet one-way delay: 11.031 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 50.25 Mbit/s
95th percentile per-packet one-way delay: 11.031 ms
Loss rate: 0.07%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-09-18 16:09:18

End at: 2019-09-18 16:09:48

Local clock offset: -4.771 ms

Remote clock offset: 0.07 ms

Below is generated by plot.py at 2019-09-18 17:56:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.29 Mbit/s

95th percentile per-packet one-way delay: 9.130 ms

Loss rate: 0.07%

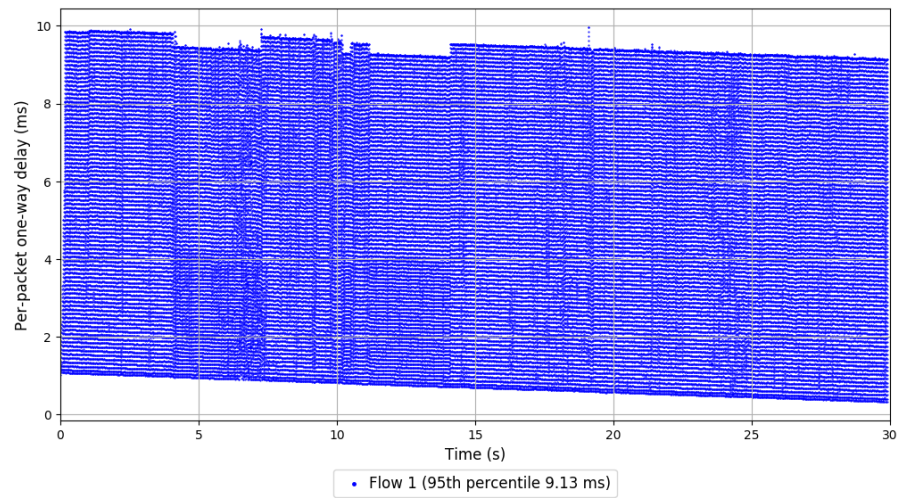
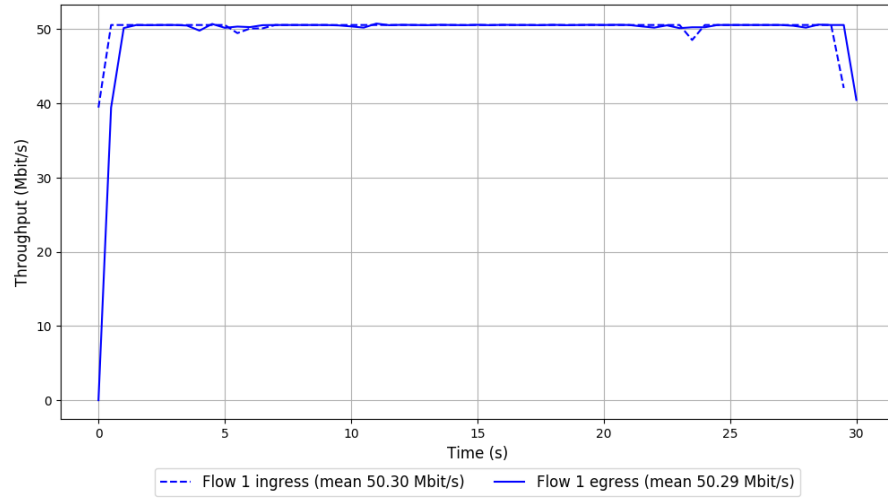
-- Flow 1:

Average throughput: 50.29 Mbit/s

95th percentile per-packet one-way delay: 9.130 ms

Loss rate: 0.07%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-09-18 16:36:17

End at: 2019-09-18 16:36:47

Local clock offset: 9.098 ms

Remote clock offset: 0.466 ms

Below is generated by plot.py at 2019-09-18 17:56:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.25 Mbit/s

95th percentile per-packet one-way delay: 11.357 ms

Loss rate: 0.06%

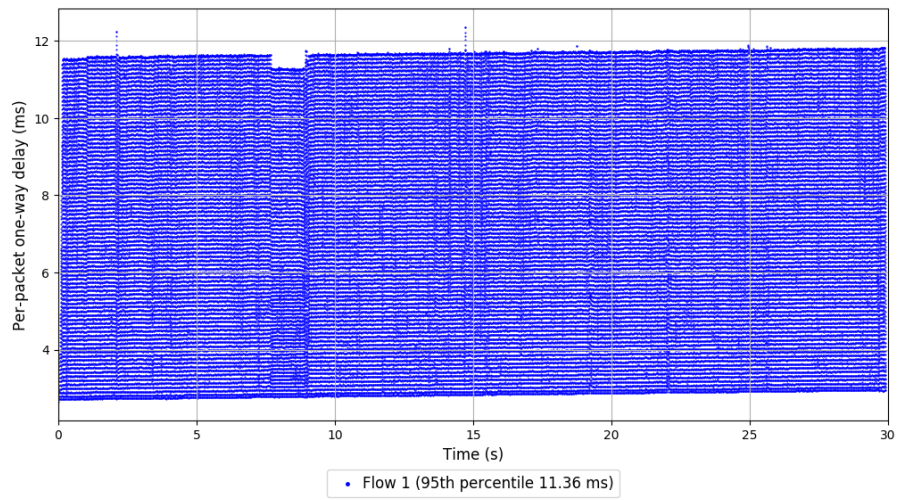
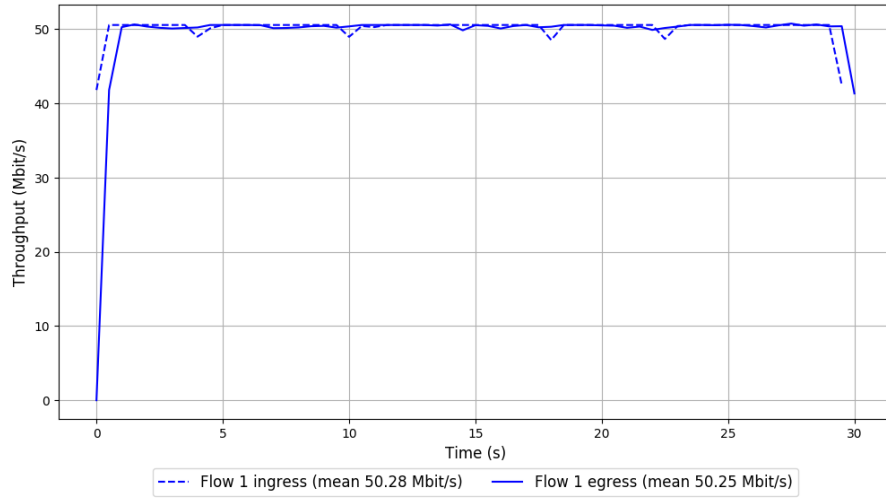
-- Flow 1:

Average throughput: 50.25 Mbit/s

95th percentile per-packet one-way delay: 11.357 ms

Loss rate: 0.06%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-09-18 17:03:18

End at: 2019-09-18 17:03:48

Local clock offset: 6.788 ms

Remote clock offset: 0.837 ms

Below is generated by plot.py at 2019-09-18 17:56:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.87 Mbit/s

95th percentile per-packet one-way delay: 6.254 ms

Loss rate: 0.00%

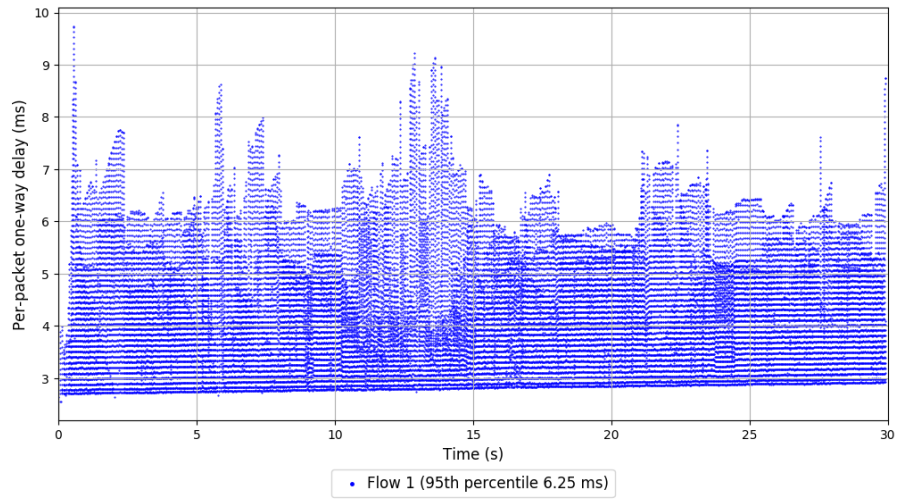
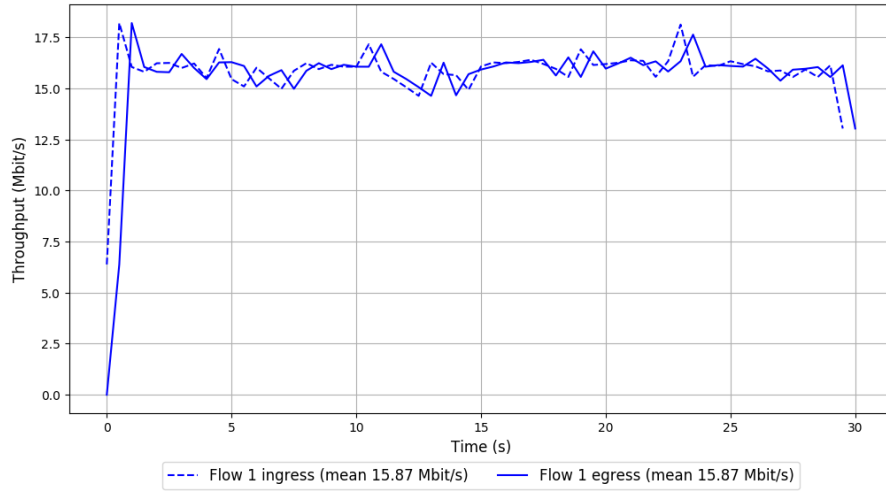
-- Flow 1:

Average throughput: 15.87 Mbit/s

95th percentile per-packet one-way delay: 6.254 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-09-18 17:30:10

End at: 2019-09-18 17:30:40

Local clock offset: 4.912 ms

Remote clock offset: 1.02 ms

Below is generated by plot.py at 2019-09-18 17:56:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.43 Mbit/s

95th percentile per-packet one-way delay: 7.281 ms

Loss rate: 0.05%

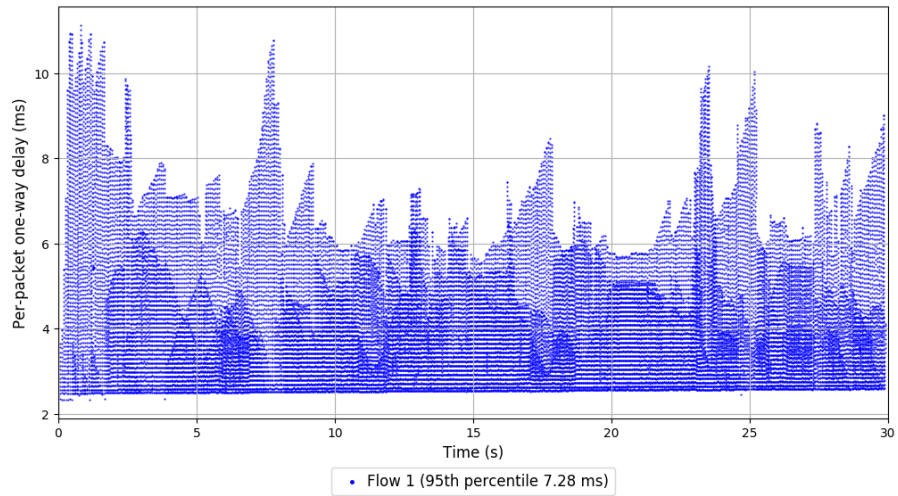
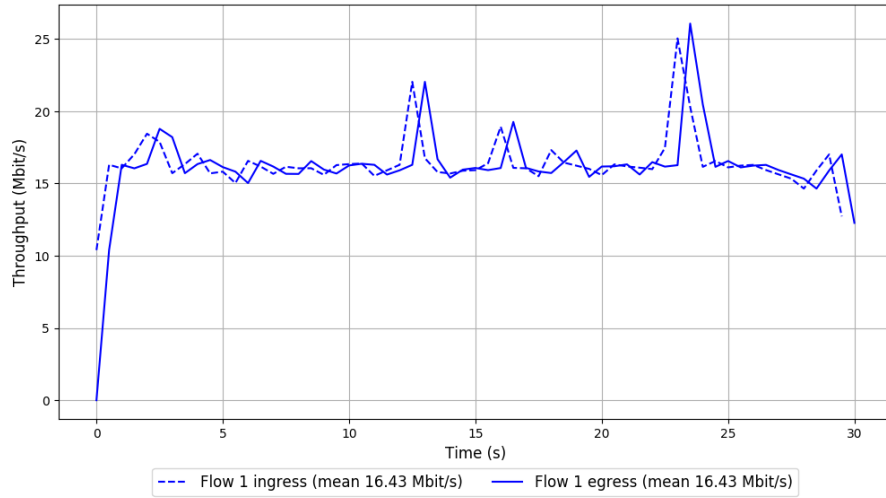
-- Flow 1:

Average throughput: 16.43 Mbit/s

95th percentile per-packet one-way delay: 7.281 ms

Loss rate: 0.05%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-09-18 15:30:02

End at: 2019-09-18 15:30:32

Local clock offset: -22.274 ms

Remote clock offset: -0.313 ms

Below is generated by plot.py at 2019-09-18 17:58:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.21 Mbit/s

95th percentile per-packet one-way delay: 1.809 ms

Loss rate: 0.01%

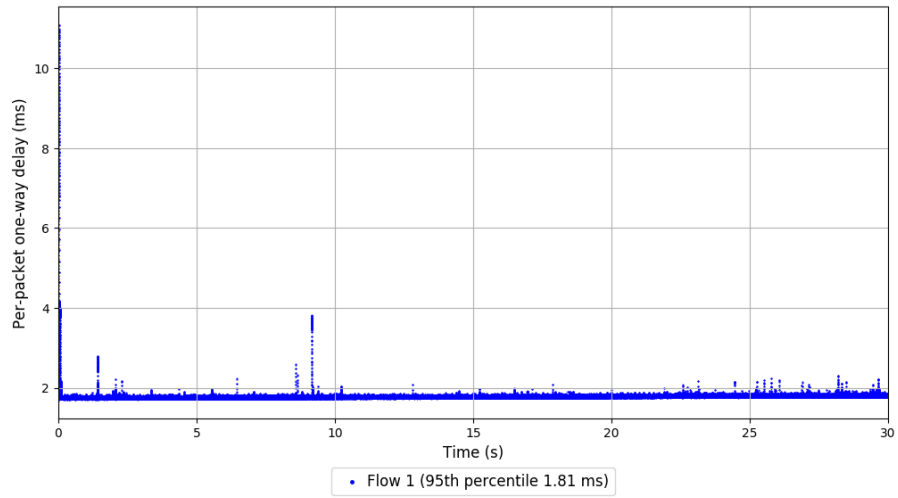
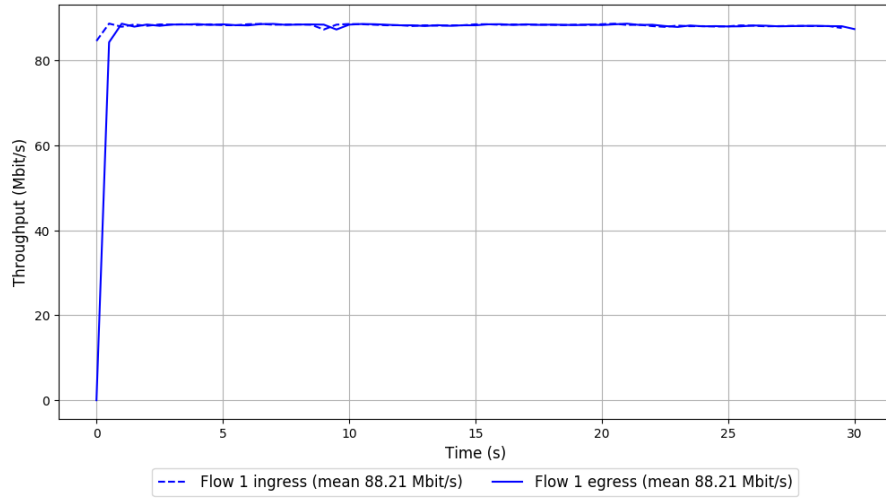
-- Flow 1:

Average throughput: 88.21 Mbit/s

95th percentile per-packet one-way delay: 1.809 ms

Loss rate: 0.01%

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

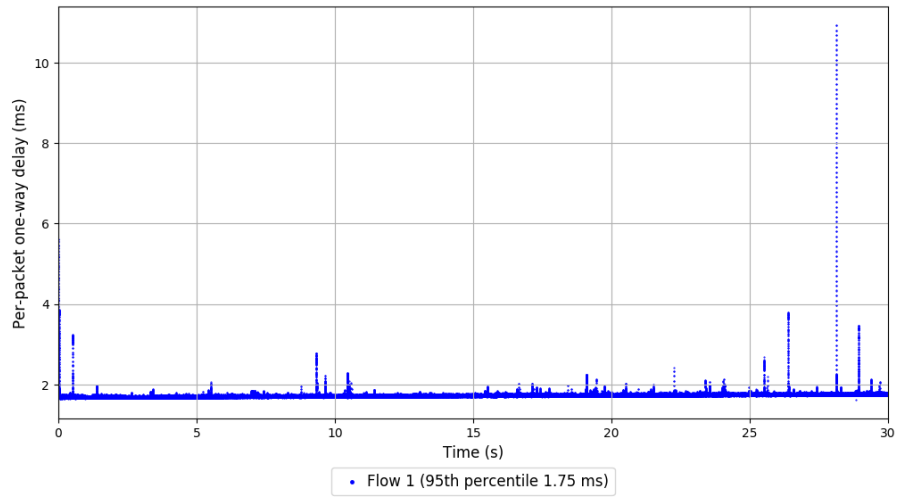
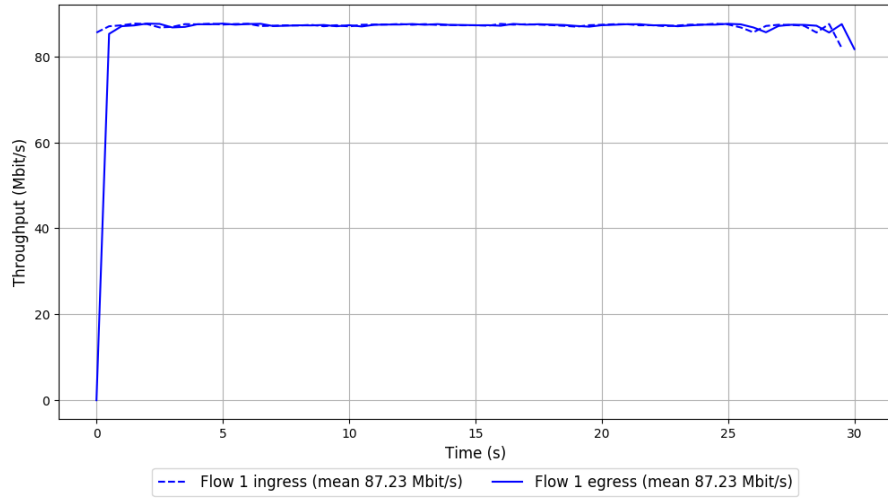


Run 2: Statistics of TaoVA-100x

Start at: 2019-09-18 15:56:57
End at: 2019-09-18 15:57:27
Local clock offset: -25.894 ms
Remote clock offset: 0.008 ms

Below is generated by plot.py at 2019-09-18 17:58:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.23 Mbit/s
95th percentile per-packet one-way delay: 1.749 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 87.23 Mbit/s
95th percentile per-packet one-way delay: 1.749 ms
Loss rate: 0.01%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-09-18 16:23:55

End at: 2019-09-18 16:24:25

Local clock offset: 10.293 ms

Remote clock offset: 0.397 ms

Below is generated by plot.py at 2019-09-18 17:58:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.19 Mbit/s

95th percentile per-packet one-way delay: 2.139 ms

Loss rate: 0.01%

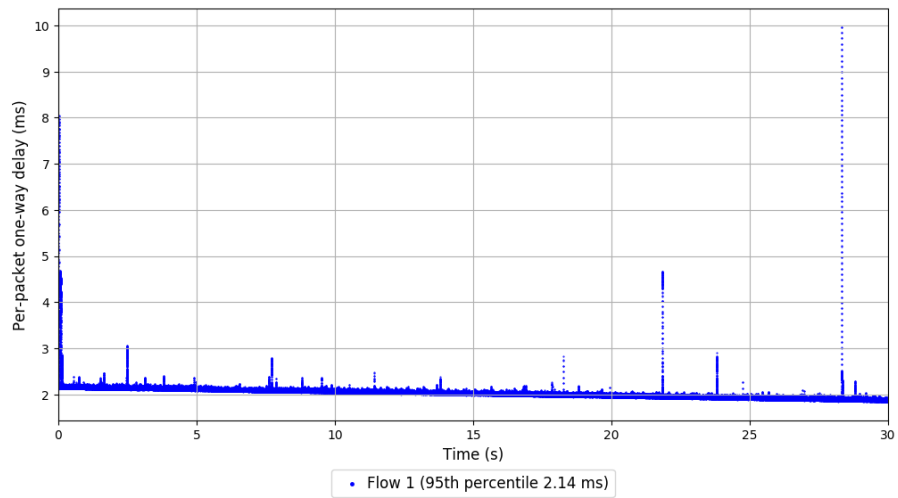
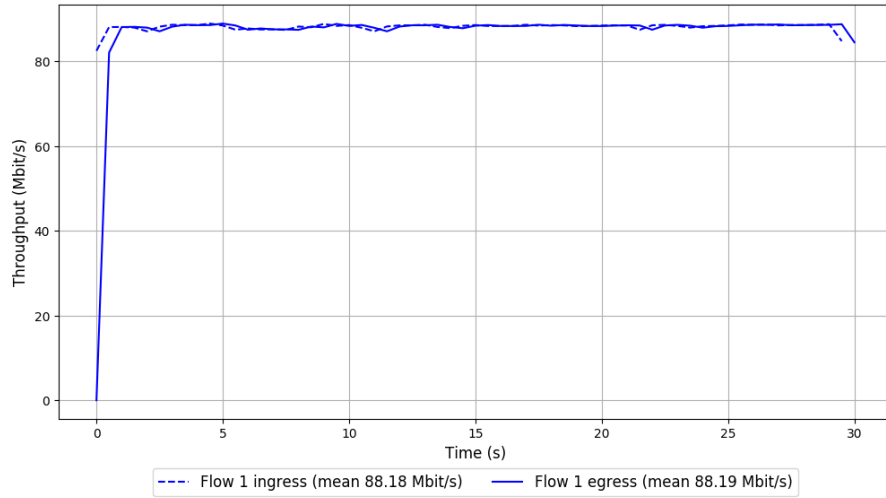
-- Flow 1:

Average throughput: 88.19 Mbit/s

95th percentile per-packet one-way delay: 2.139 ms

Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-09-18 16:50:58

End at: 2019-09-18 16:51:28

Local clock offset: 6.275 ms

Remote clock offset: 0.596 ms

Below is generated by plot.py at 2019-09-18 17:58:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.05 Mbit/s

95th percentile per-packet one-way delay: 1.758 ms

Loss rate: 0.01%

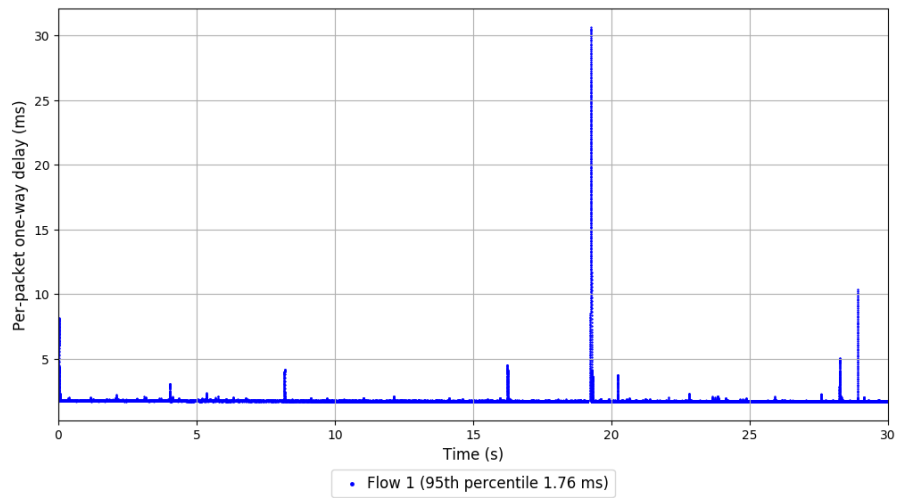
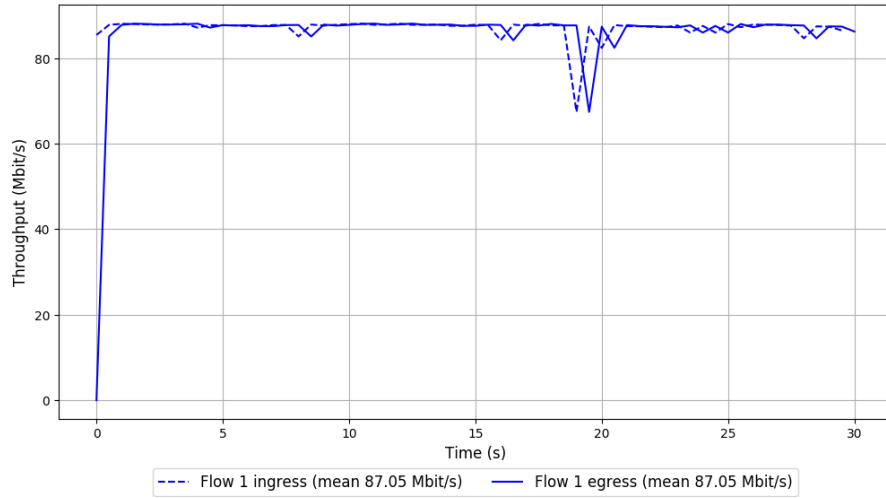
-- Flow 1:

Average throughput: 87.05 Mbit/s

95th percentile per-packet one-way delay: 1.758 ms

Loss rate: 0.01%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-09-18 17:17:50

End at: 2019-09-18 17:18:20

Local clock offset: 4.298 ms

Remote clock offset: 0.951 ms

Below is generated by plot.py at 2019-09-18 17:58:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.18 Mbit/s

95th percentile per-packet one-way delay: 8.249 ms

Loss rate: 0.01%

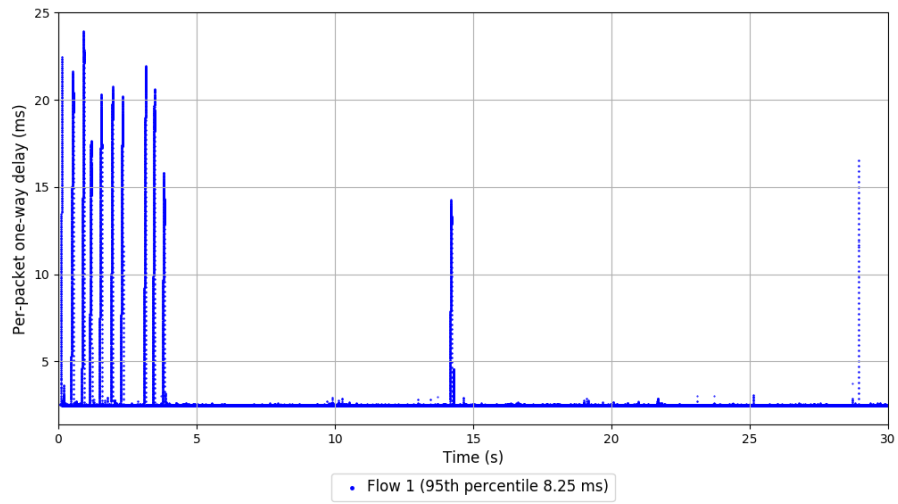
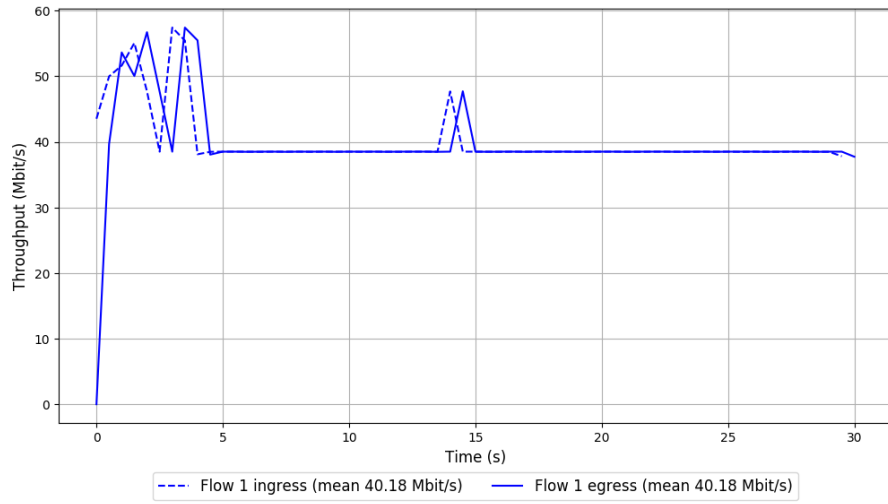
-- Flow 1:

Average throughput: 40.18 Mbit/s

95th percentile per-packet one-way delay: 8.249 ms

Loss rate: 0.01%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-09-18 15:35:39
End at: 2019-09-18 15:36:09
Local clock offset: -22.182 ms
Remote clock offset: -0.287 ms

Below is generated by plot.py at 2019-09-18 17:58:22

Datalink statistics

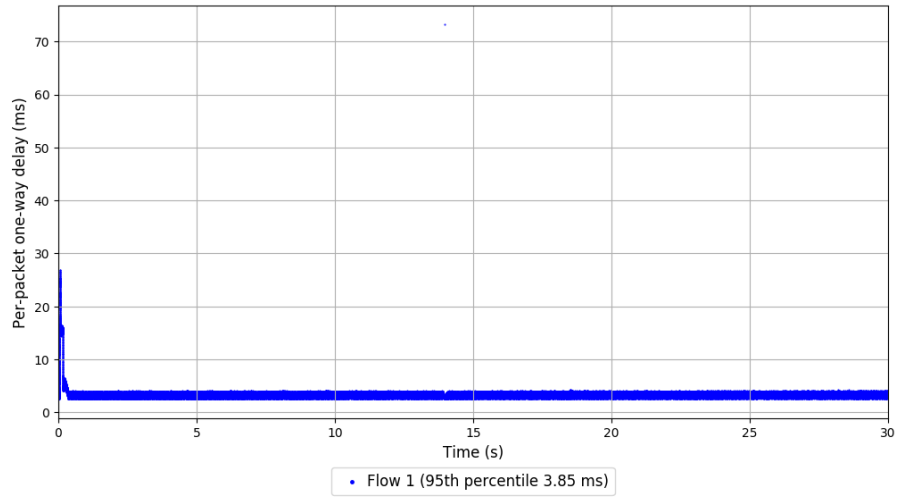
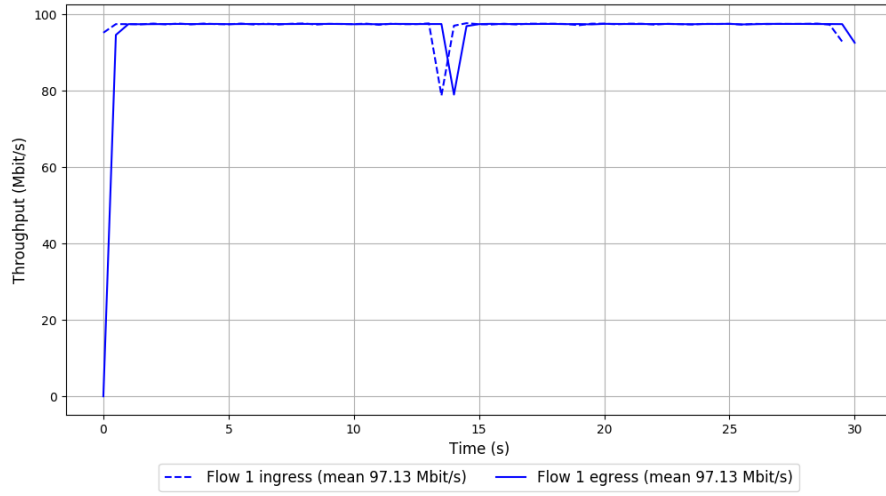
-- Total of 1 flow:

Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 3.852 ms
Loss rate: 0.02%

-- Flow 1:

Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 3.852 ms
Loss rate: 0.02%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-09-18 16:02:37
End at: 2019-09-18 16:03:07
Local clock offset: -19.483 ms
Remote clock offset: 0.055 ms

Below is generated by plot.py at 2019-09-18 17:58:22

Datalink statistics

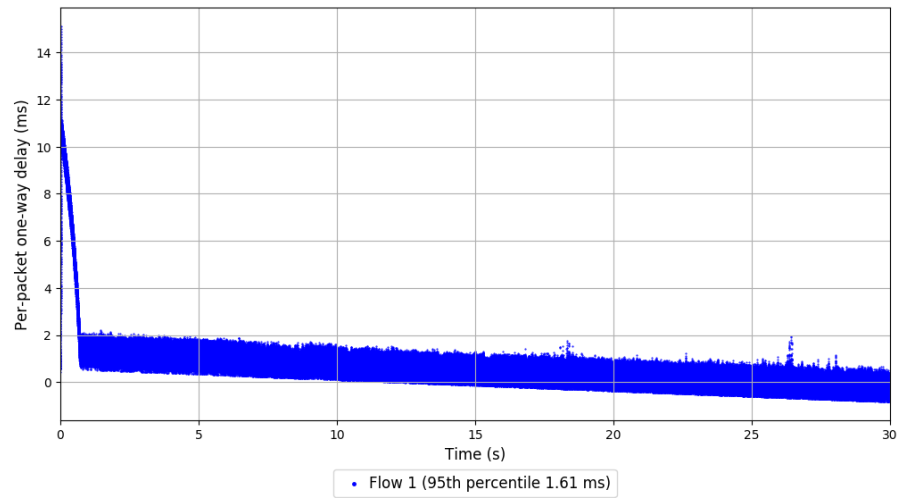
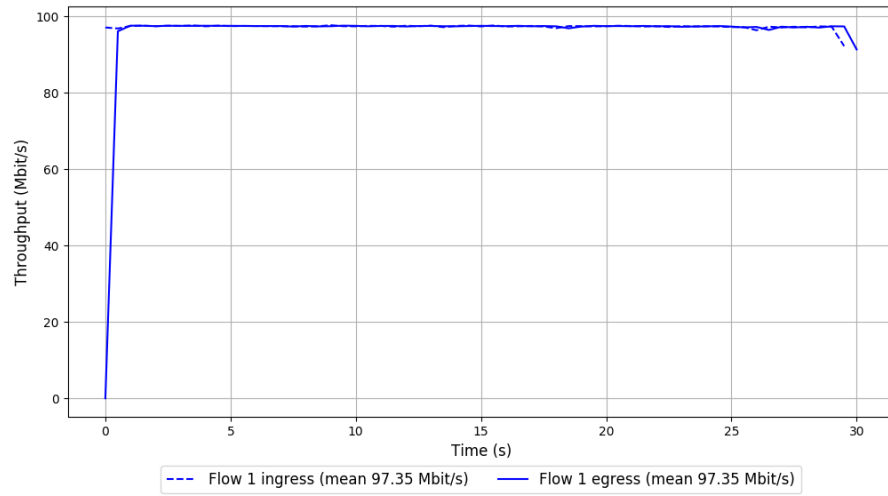
-- Total of 1 flow:

Average throughput: 97.35 Mbit/s
95th percentile per-packet one-way delay: 1.614 ms
Loss rate: 0.01%

-- Flow 1:

Average throughput: 97.35 Mbit/s
95th percentile per-packet one-way delay: 1.614 ms
Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-09-18 16:29:35

End at: 2019-09-18 16:30:05

Local clock offset: 12.707 ms

Remote clock offset: 0.474 ms

Below is generated by plot.py at 2019-09-18 17:58:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.26 Mbit/s

95th percentile per-packet one-way delay: 2.535 ms

Loss rate: 0.02%

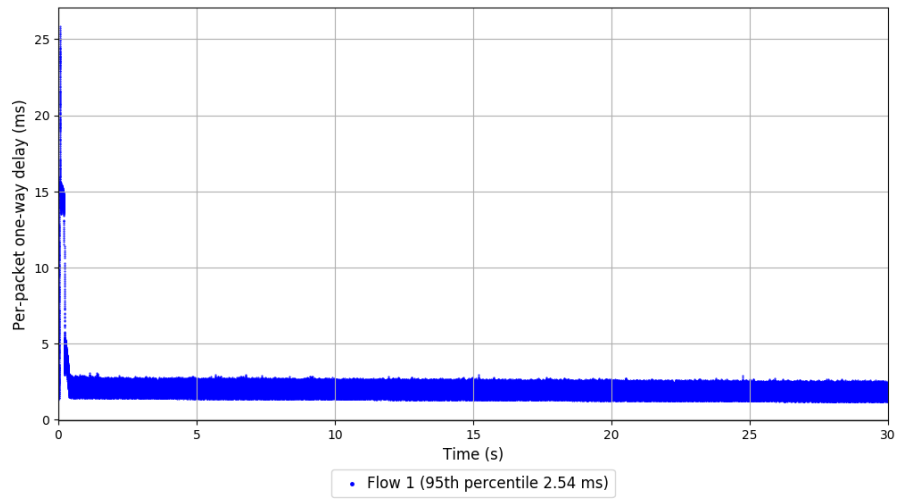
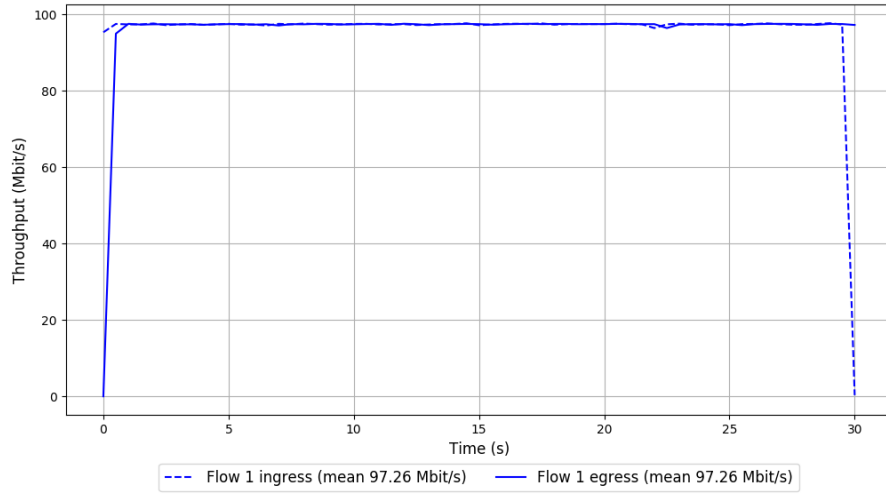
-- Flow 1:

Average throughput: 97.26 Mbit/s

95th percentile per-packet one-way delay: 2.535 ms

Loss rate: 0.02%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-09-18 16:56:37

End at: 2019-09-18 16:57:07

Local clock offset: 6.917 ms

Remote clock offset: 0.764 ms

Below is generated by plot.py at 2019-09-18 17:58:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.37 Mbit/s

95th percentile per-packet one-way delay: 2.861 ms

Loss rate: 0.01%

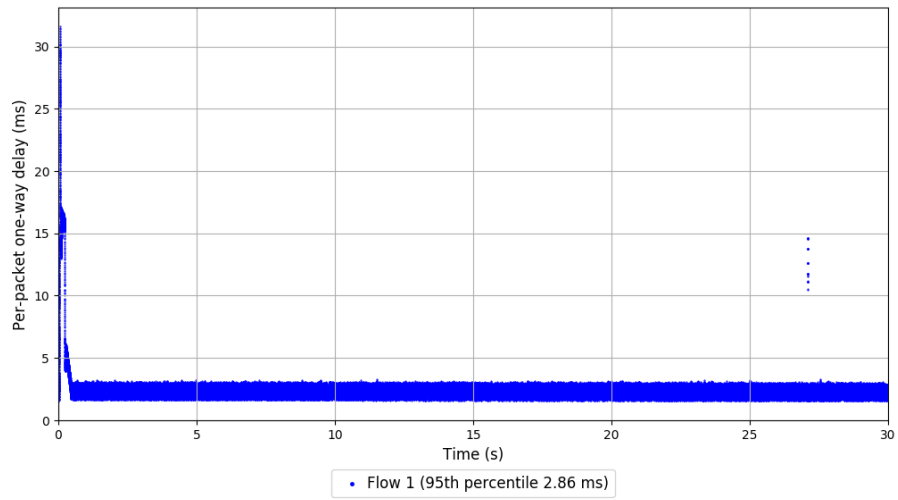
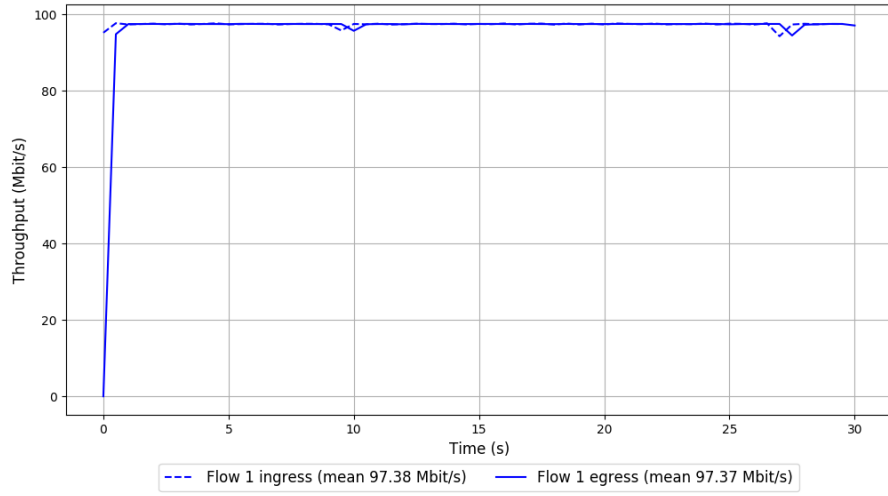
-- Flow 1:

Average throughput: 97.37 Mbit/s

95th percentile per-packet one-way delay: 2.861 ms

Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-09-18 17:23:24

End at: 2019-09-18 17:23:54

Local clock offset: 19.838 ms

Remote clock offset: 0.994 ms

Below is generated by plot.py at 2019-09-18 17:58:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.19 Mbit/s

95th percentile per-packet one-way delay: 19.106 ms

Loss rate: 0.01%

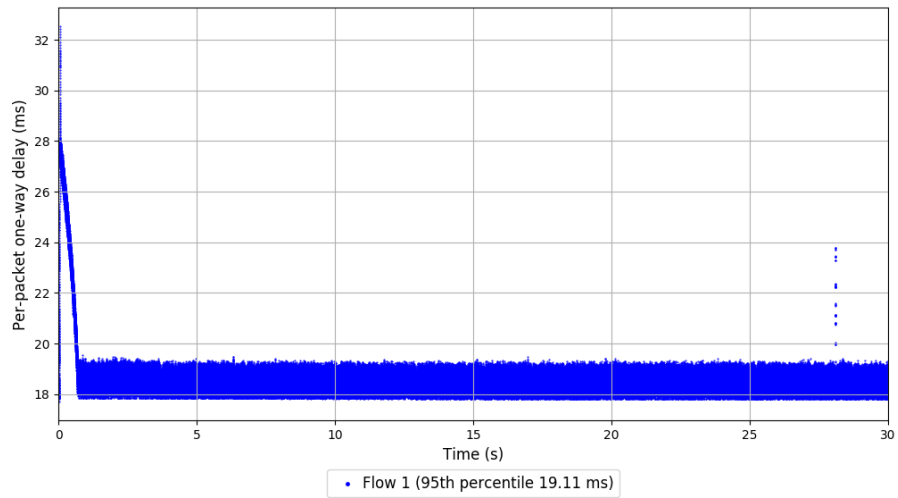
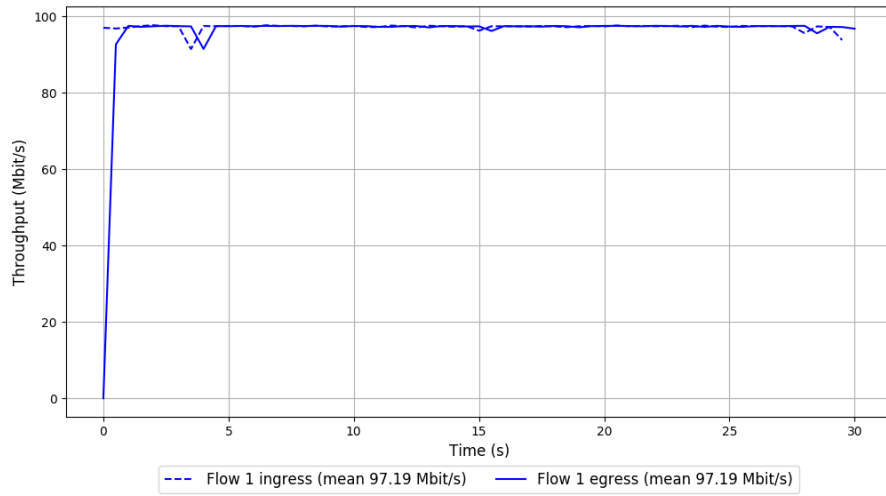
-- Flow 1:

Average throughput: 97.19 Mbit/s

95th percentile per-packet one-way delay: 19.106 ms

Loss rate: 0.01%

Run 5: Report of TCP Vegas — Data Link

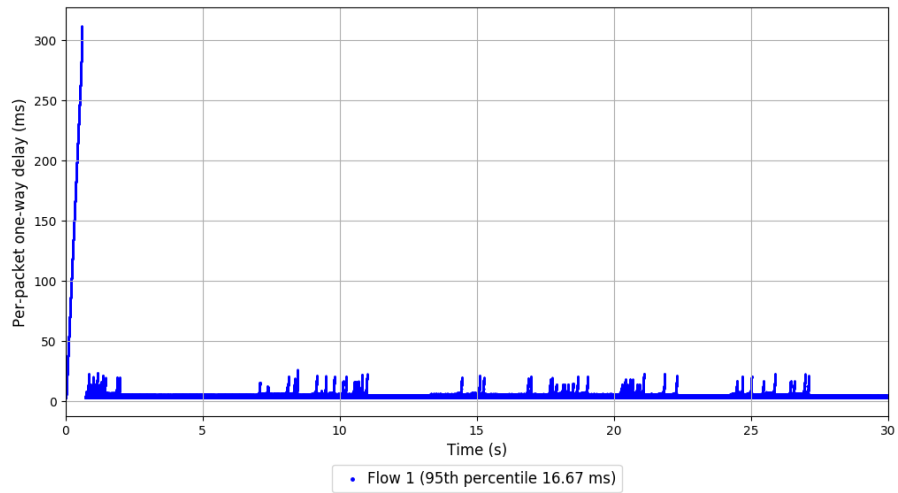
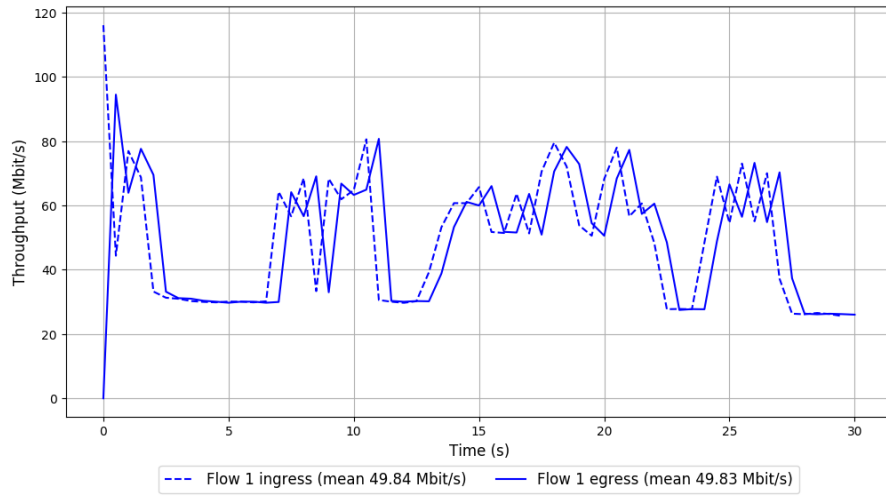


Run 1: Statistics of Verus

Start at: 2019-09-18 15:43:24
End at: 2019-09-18 15:43:54
Local clock offset: -23.193 ms
Remote clock offset: -0.247 ms

Below is generated by plot.py at 2019-09-18 17:58:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 49.83 Mbit/s
95th percentile per-packet one-way delay: 16.668 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 49.83 Mbit/s
95th percentile per-packet one-way delay: 16.668 ms
Loss rate: 0.02%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-09-18 16:10:24

End at: 2019-09-18 16:10:54

Local clock offset: -2.82 ms

Remote clock offset: 0.188 ms

Below is generated by plot.py at 2019-09-18 17:58:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.41 Mbit/s

95th percentile per-packet one-way delay: 7.723 ms

Loss rate: 0.03%

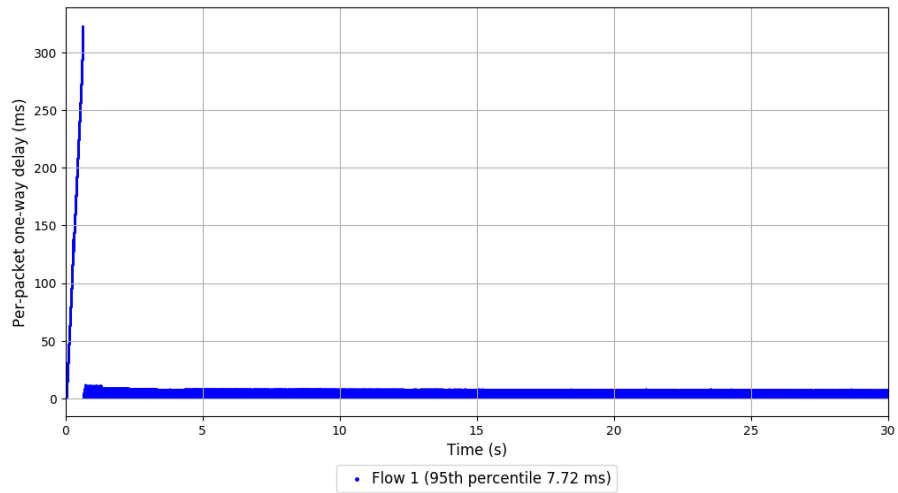
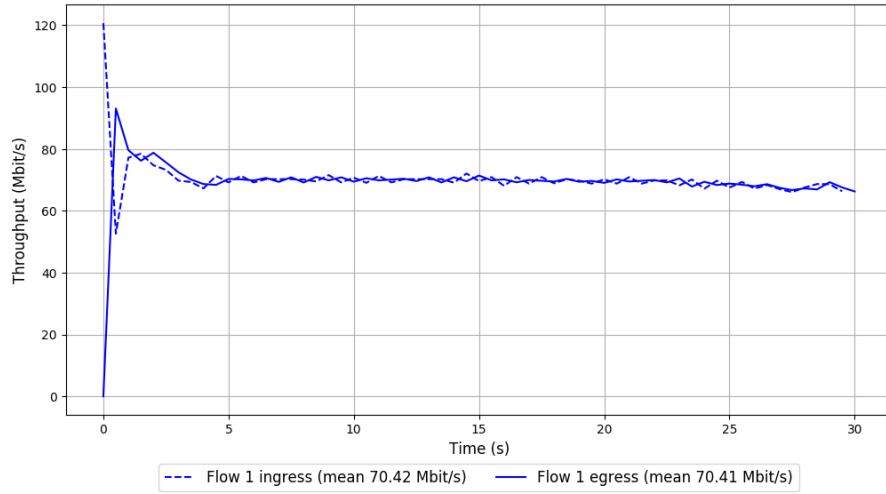
-- Flow 1:

Average throughput: 70.41 Mbit/s

95th percentile per-packet one-way delay: 7.723 ms

Loss rate: 0.03%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-09-18 16:37:23

End at: 2019-09-18 16:37:53

Local clock offset: 7.829 ms

Remote clock offset: 0.516 ms

Below is generated by plot.py at 2019-09-18 17:58:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.98 Mbit/s

95th percentile per-packet one-way delay: 17.001 ms

Loss rate: 0.10%

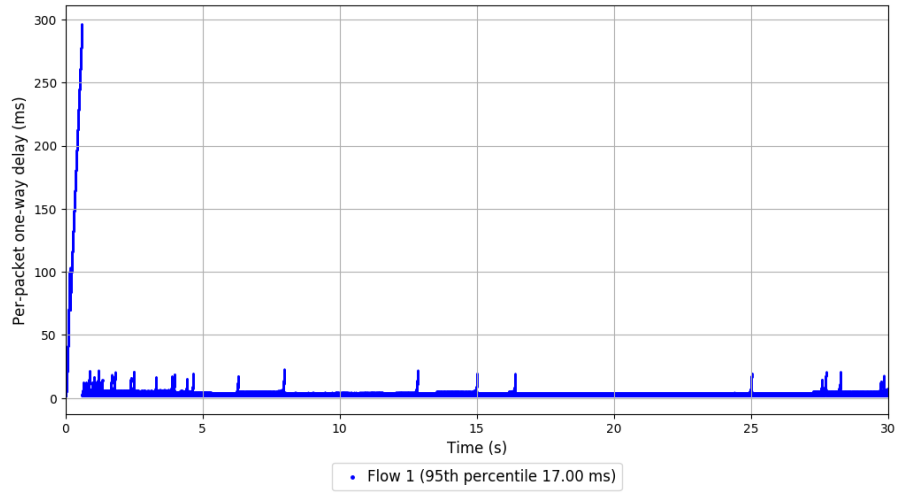
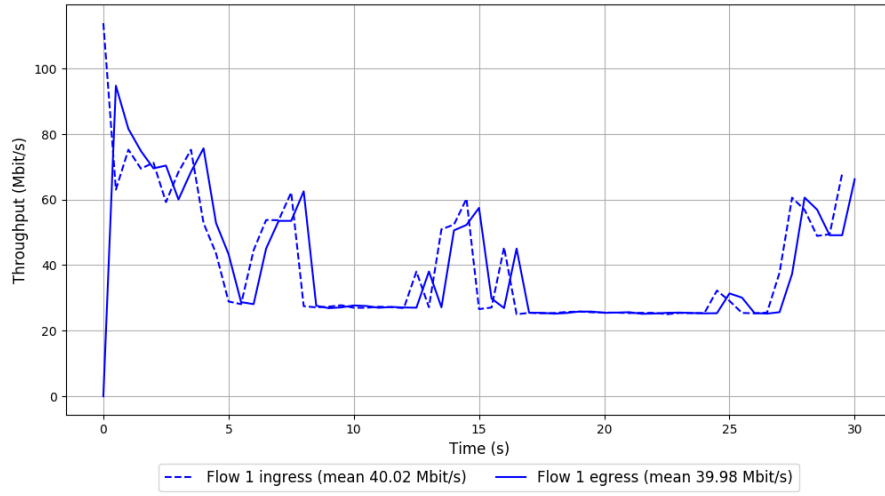
-- Flow 1:

Average throughput: 39.98 Mbit/s

95th percentile per-packet one-way delay: 17.001 ms

Loss rate: 0.10%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-09-18 17:04:23

End at: 2019-09-18 17:04:53

Local clock offset: 5.548 ms

Remote clock offset: 0.765 ms

Below is generated by plot.py at 2019-09-18 17:59:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.96 Mbit/s

95th percentile per-packet one-way delay: 42.959 ms

Loss rate: 0.18%

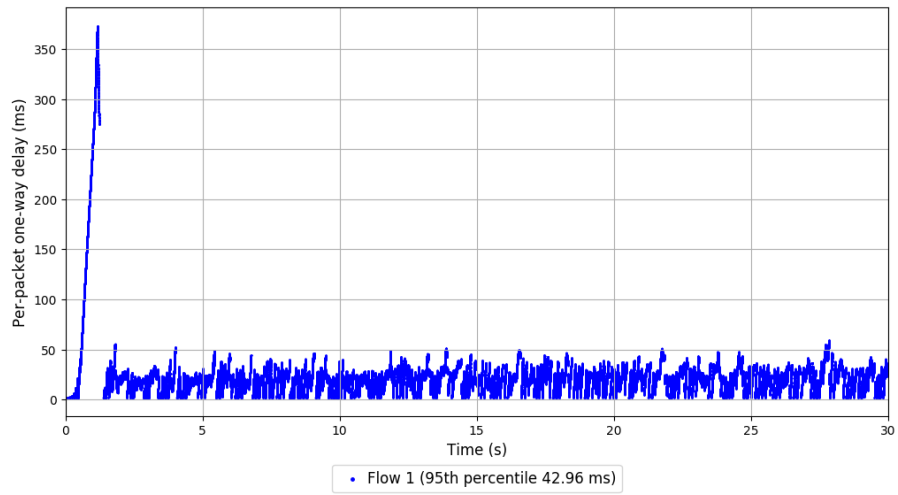
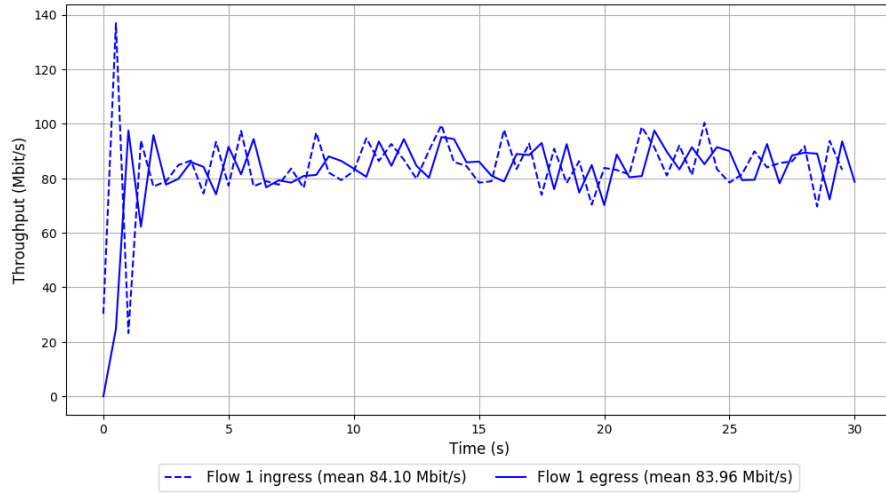
-- Flow 1:

Average throughput: 83.96 Mbit/s

95th percentile per-packet one-way delay: 42.959 ms

Loss rate: 0.18%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-09-18 17:31:15

End at: 2019-09-18 17:31:45

Local clock offset: 4.147 ms

Remote clock offset: 1.187 ms

Below is generated by plot.py at 2019-09-18 17:59:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.45 Mbit/s

95th percentile per-packet one-way delay: 34.901 ms

Loss rate: 0.13%

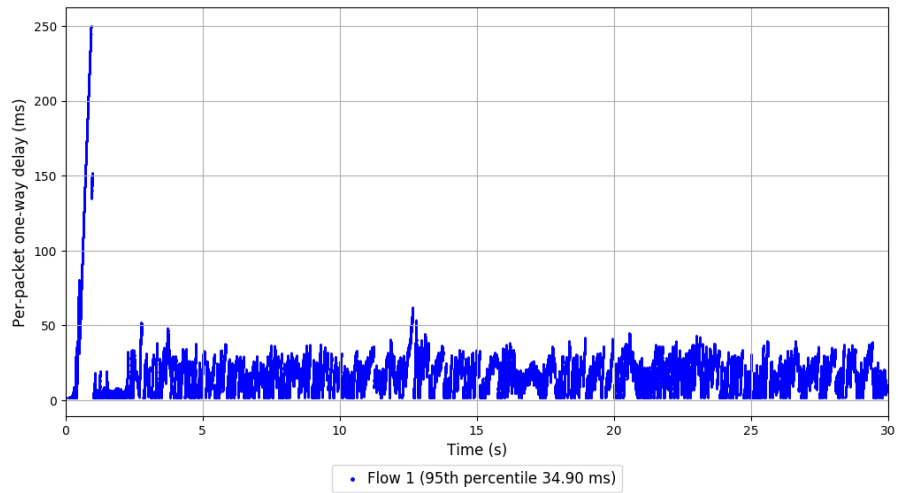
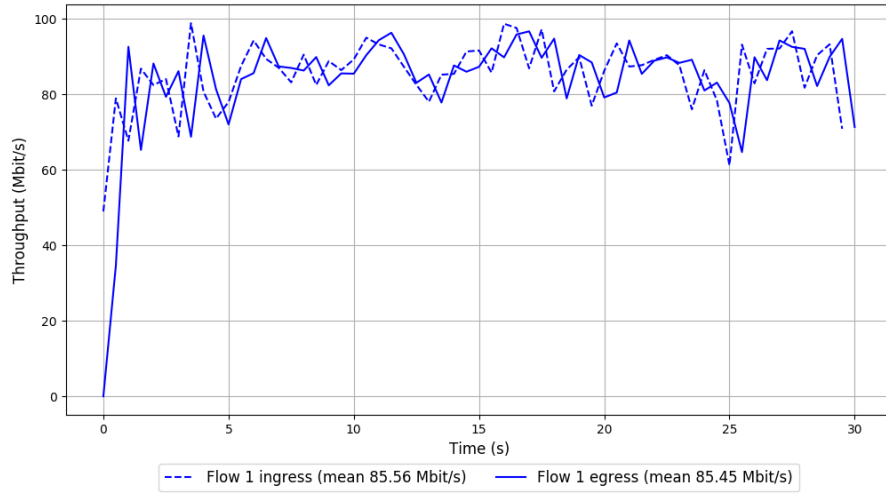
-- Flow 1:

Average throughput: 85.45 Mbit/s

95th percentile per-packet one-way delay: 34.901 ms

Loss rate: 0.13%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-09-18 15:34:33
End at: 2019-09-18 15:35:03
Local clock offset: -22.856 ms
Remote clock offset: -0.305 ms

Below is generated by plot.py at 2019-09-18 17:59:18

Datalink statistics

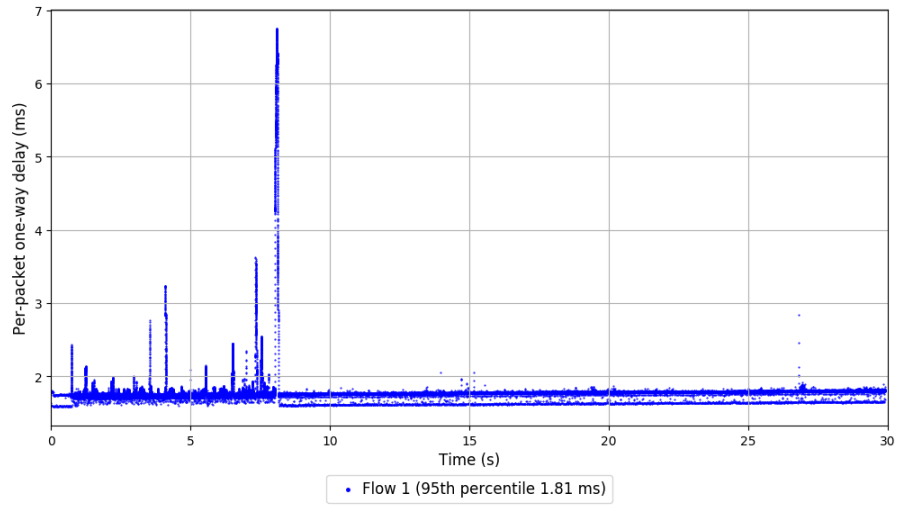
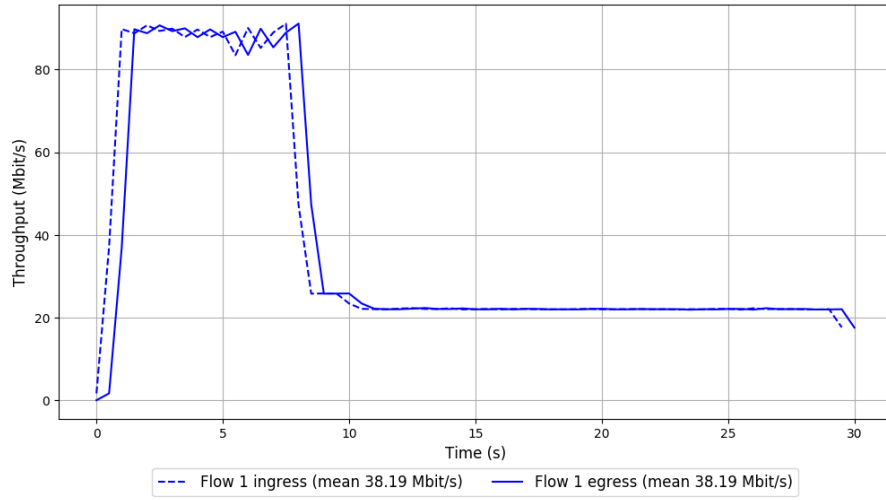
-- Total of 1 flow:

Average throughput: 38.19 Mbit/s
95th percentile per-packet one-way delay: 1.806 ms
Loss rate: 0.01%

-- Flow 1:

Average throughput: 38.19 Mbit/s
95th percentile per-packet one-way delay: 1.806 ms
Loss rate: 0.01%

Run 1: Report of PCC-Vivace — Data Link

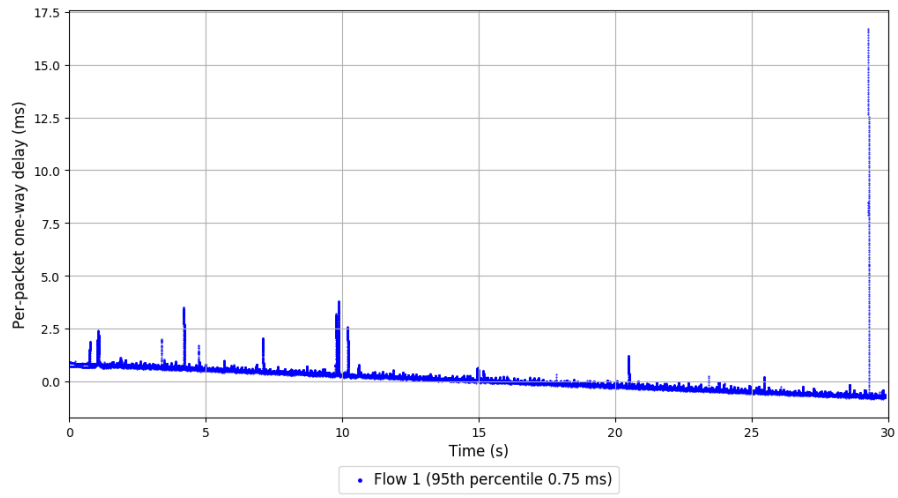
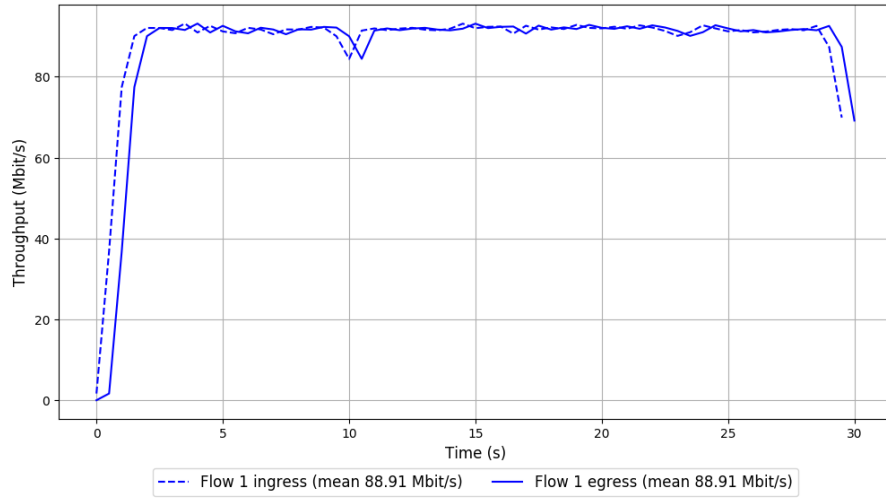


Run 2: Statistics of PCC-Vivace

Start at: 2019-09-18 16:01:27
End at: 2019-09-18 16:01:57
Local clock offset: -22.689 ms
Remote clock offset: 0.107 ms

Below is generated by plot.py at 2019-09-18 17:59:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.91 Mbit/s
95th percentile per-packet one-way delay: 0.752 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 88.91 Mbit/s
95th percentile per-packet one-way delay: 0.752 ms
Loss rate: 0.01%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-09-18 16:28:26

End at: 2019-09-18 16:28:56

Local clock offset: 12.837 ms

Remote clock offset: 0.3 ms

Below is generated by plot.py at 2019-09-18 17:59:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.61 Mbit/s

95th percentile per-packet one-way delay: 2.327 ms

Loss rate: 0.01%

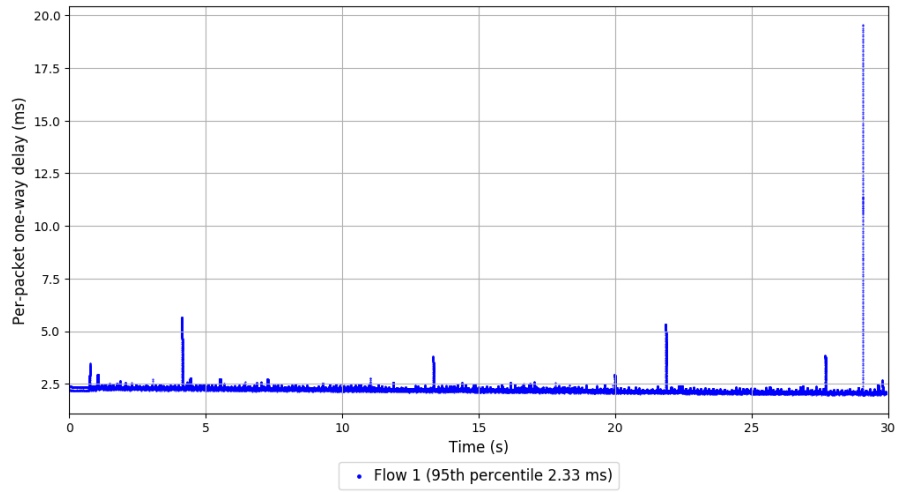
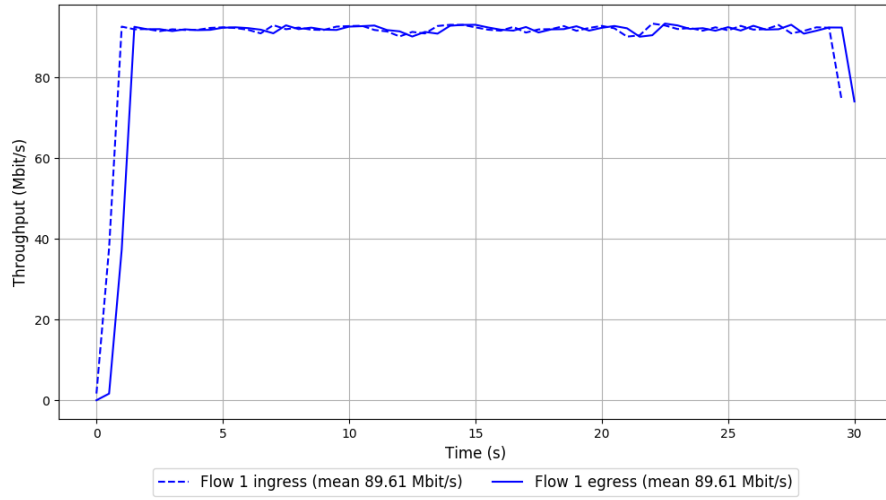
-- Flow 1:

Average throughput: 89.61 Mbit/s

95th percentile per-packet one-way delay: 2.327 ms

Loss rate: 0.01%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-09-18 16:55:28

End at: 2019-09-18 16:55:58

Local clock offset: 7.443 ms

Remote clock offset: 0.696 ms

Below is generated by plot.py at 2019-09-18 17:59:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.65 Mbit/s

95th percentile per-packet one-way delay: 2.405 ms

Loss rate: 0.01%

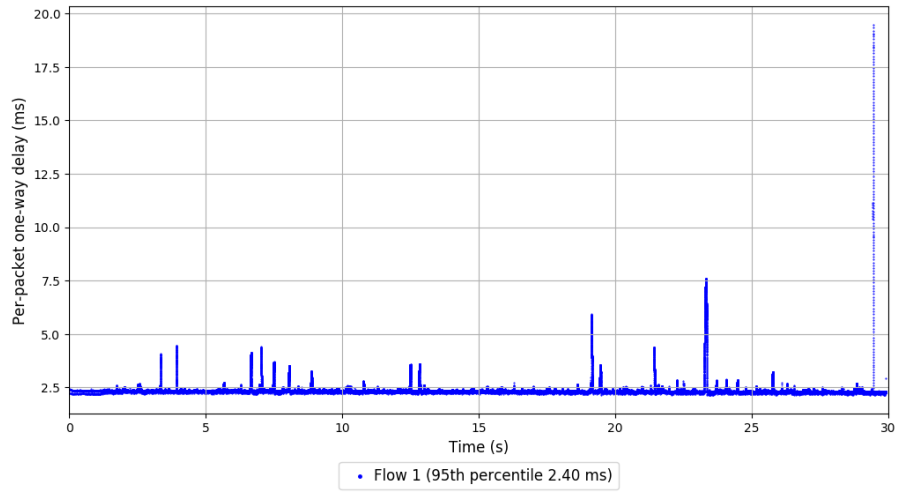
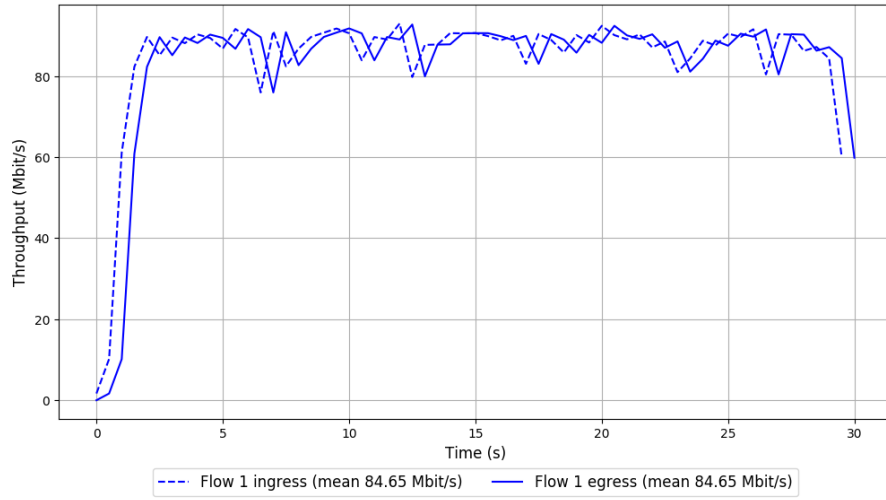
-- Flow 1:

Average throughput: 84.65 Mbit/s

95th percentile per-packet one-way delay: 2.405 ms

Loss rate: 0.01%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-09-18 17:22:17

End at: 2019-09-18 17:22:47

Local clock offset: 26.995 ms

Remote clock offset: 1.006 ms

Below is generated by plot.py at 2019-09-18 17:59:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.35 Mbit/s

95th percentile per-packet one-way delay: 25.159 ms

Loss rate: 0.01%

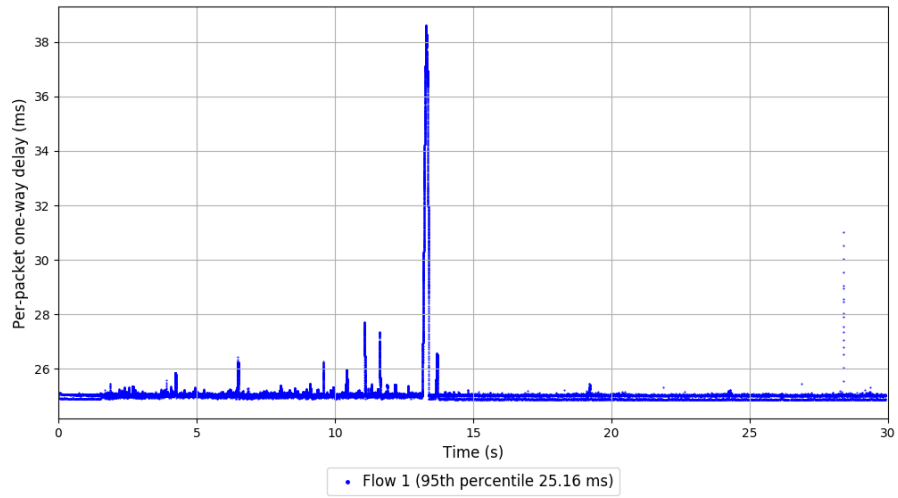
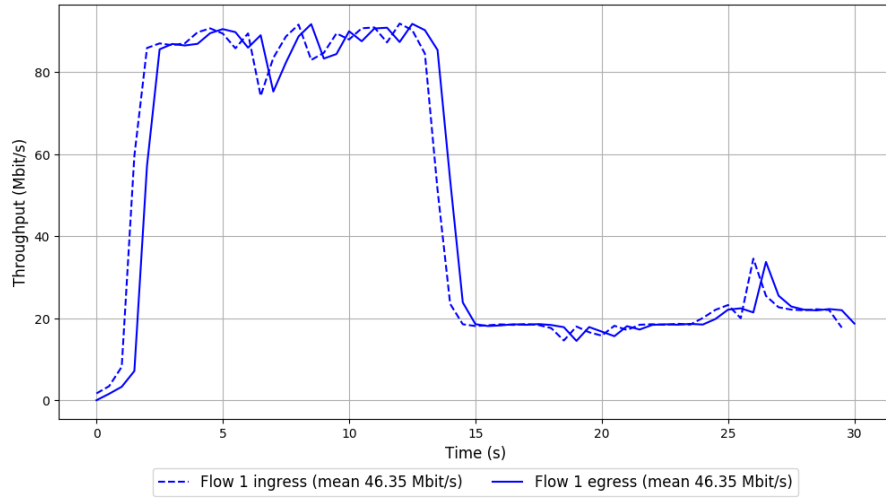
-- Flow 1:

Average throughput: 46.35 Mbit/s

95th percentile per-packet one-way delay: 25.159 ms

Loss rate: 0.01%

Run 5: Report of PCC-Vivace — Data Link

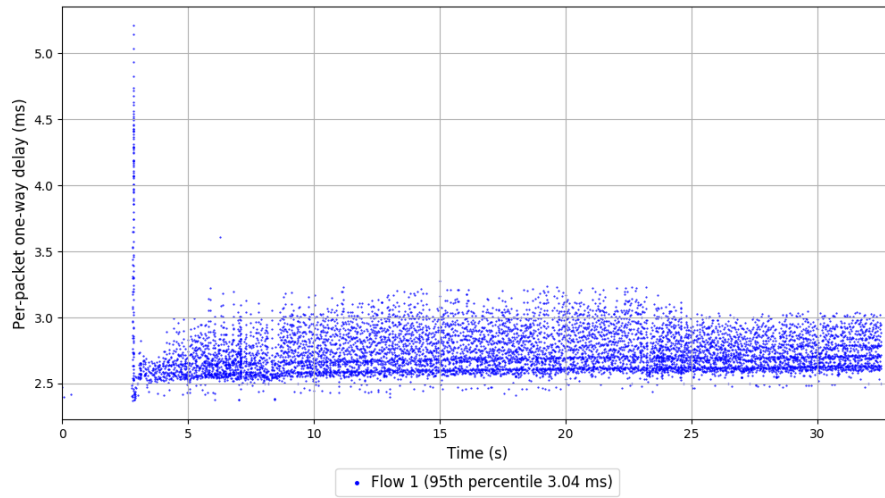
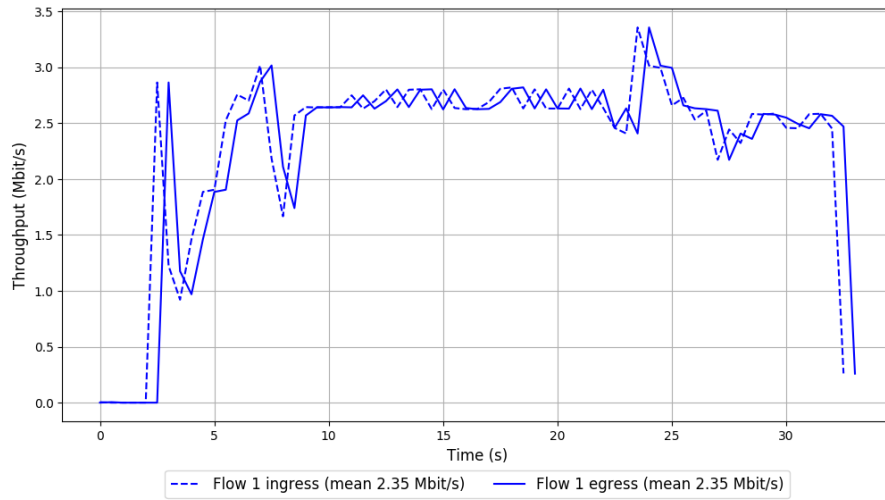


Run 1: Statistics of WebRTC media

Start at: 2019-09-18 15:53:36
End at: 2019-09-18 15:54:06
Local clock offset: -24.655 ms
Remote clock offset: -0.107 ms

Below is generated by plot.py at 2019-09-18 17:59:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 3.035 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 3.035 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-09-18 16:20:34

End at: 2019-09-18 16:21:04

Local clock offset: 8.016 ms

Remote clock offset: 0.354 ms

Below is generated by plot.py at 2019-09-18 17:59:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 2.360 ms

Loss rate: 0.00%

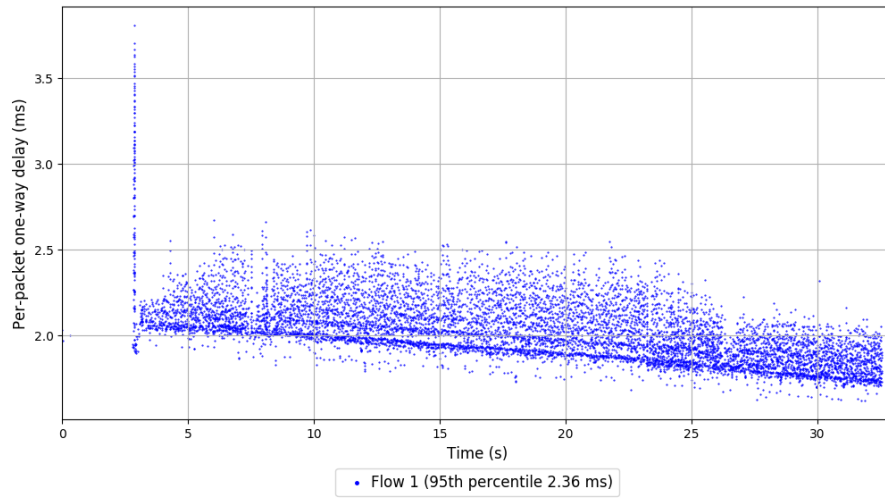
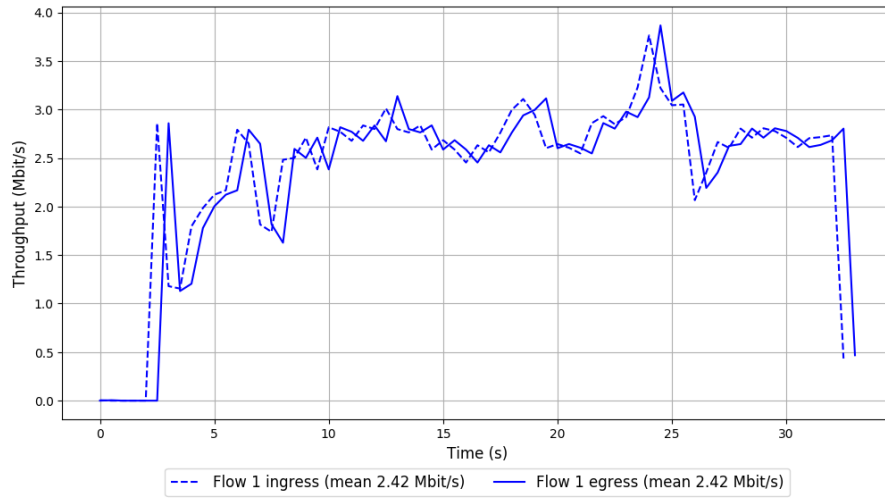
-- Flow 1:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 2.360 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-09-18 16:47:36

End at: 2019-09-18 16:48:06

Local clock offset: 6.069 ms

Remote clock offset: 0.493 ms

Below is generated by plot.py at 2019-09-18 17:59:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 2.230 ms

Loss rate: 0.00%

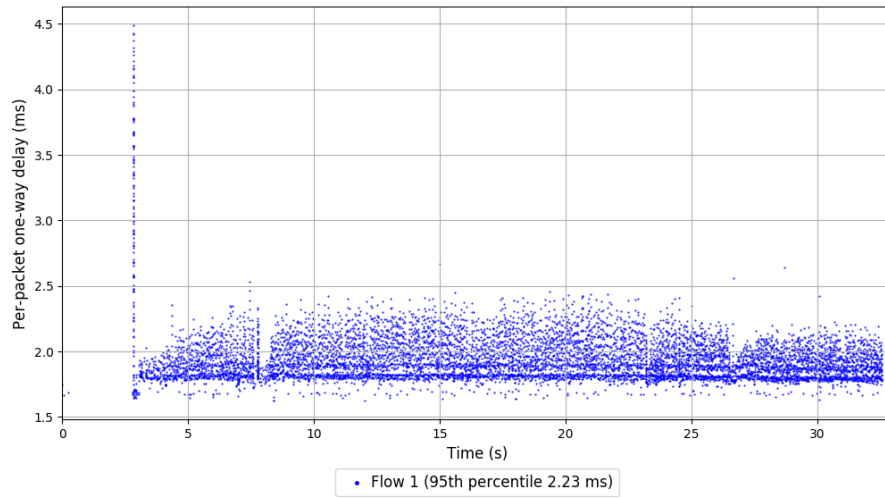
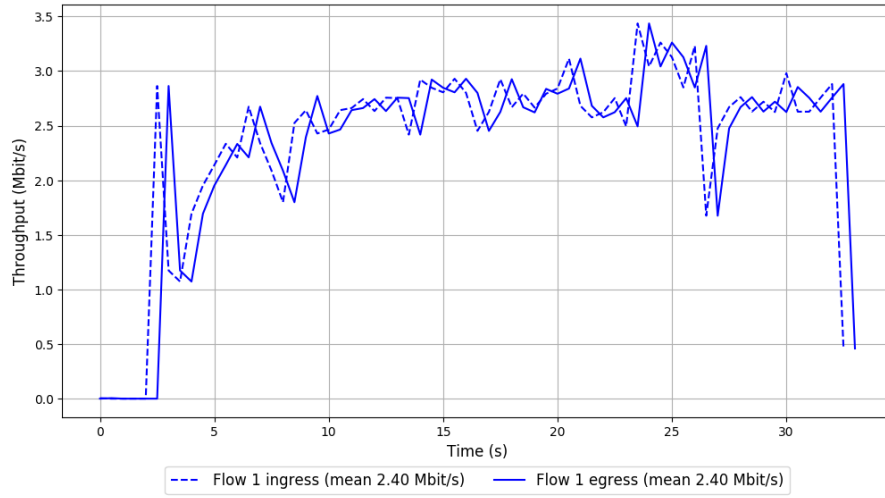
-- Flow 1:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 2.230 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-09-18 17:14:29

End at: 2019-09-18 17:14:59

Local clock offset: 17.186 ms

Remote clock offset: 0.86 ms

Below is generated by plot.py at 2019-09-18 17:59:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 15.761 ms

Loss rate: 0.00%

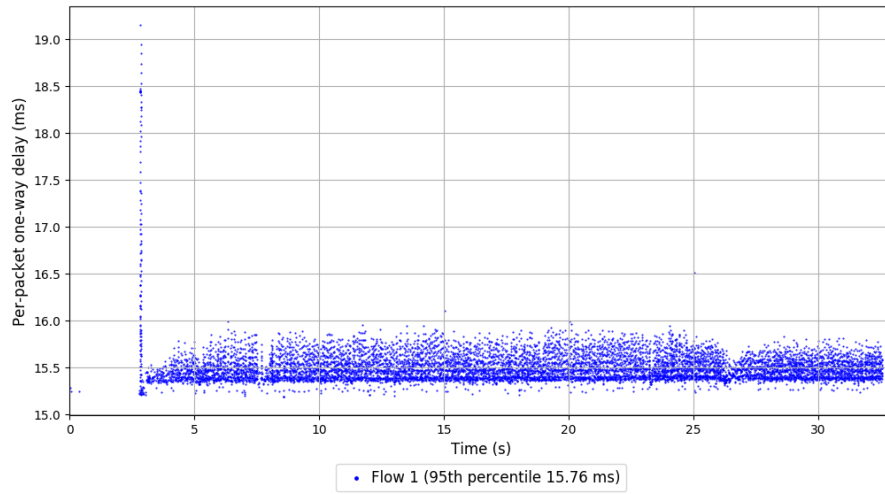
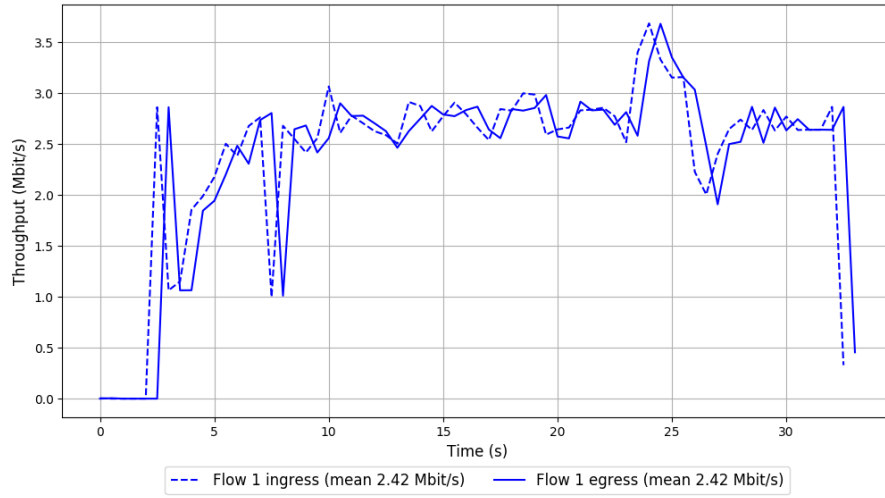
-- Flow 1:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 15.761 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-09-18 17:41:27

End at: 2019-09-18 17:41:57

Local clock offset: 4.072 ms

Remote clock offset: 1.304 ms

Below is generated by plot.py at 2019-09-18 17:59:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 3.012 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 3.012 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

