

Pantheon Report

Generated at 2019-10-03 09:48:18 (UTC).

Data path: India on em1 (*remote*) → AWS India 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 `nets.org.sg` and have been applied to correct the timestamps in logs.

System info:

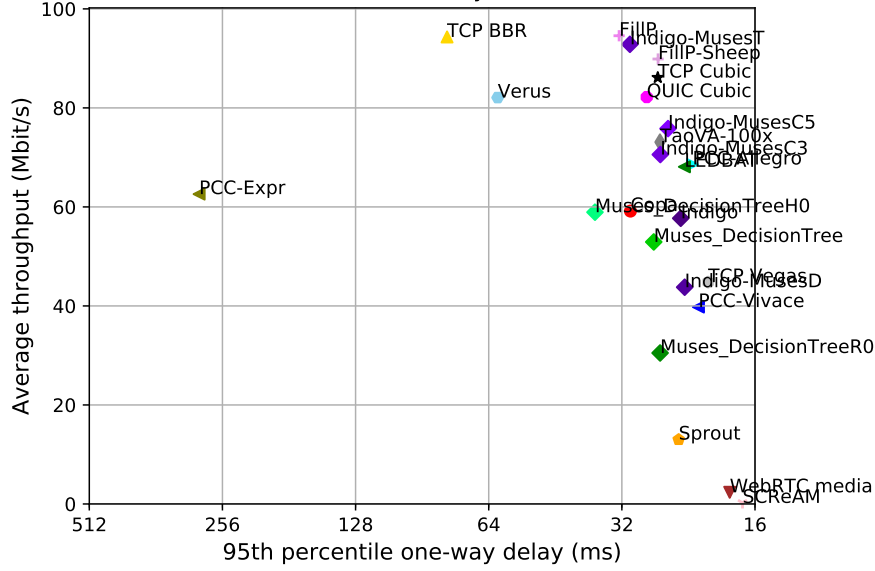
```
Linux 4.15.0-1050-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

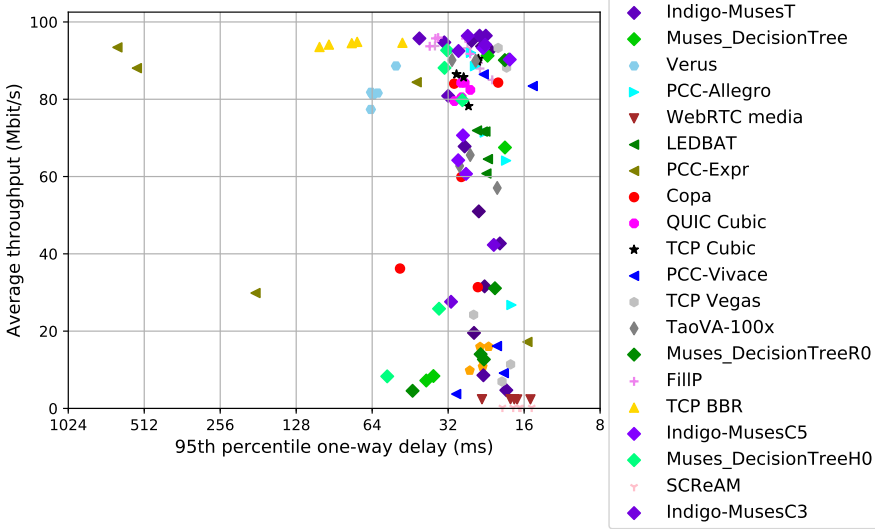
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d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



test from India to AWS India 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	94.33	79.50	2.27
Copa	5	59.16	30.60	0.21
TCP Cubic	5	86.12	26.54	0.22
FillP	5	94.57	32.46	0.27
FillP-Sheep	5	89.88	26.50	0.22
Indigo	5	57.70	23.55	0.11
Indigo-MusesC3	5	70.58	26.20	0.16
Indigo-MusesC5	5	75.82	25.16	0.23
Indigo-MusesD	5	43.78	23.08	0.12
Indigo-MusesT	5	92.84	30.69	0.34
LEDBAT	5	68.10	23.11	0.21
Muses_DecisionTree	5	52.92	27.11	0.12
Muses_DecisionTreeH0	5	58.93	36.81	0.22
Muses_DecisionTreeR0	5	30.50	26.22	0.18
PCC-Allegro	5	68.57	22.15	0.21
PCC-Expr	5	62.59	289.08	2.31
QUIC Cubic	5	82.18	28.11	0.25
SCReAM	5	0.22	17.07	0.20
Sprout	5	13.01	23.81	0.23
TaoVA-100x	5	73.09	26.24	0.16
TCP Vegas	5	44.81	20.42	0.13
Verus	5	82.08	61.08	0.34
PCC-Vivace	5	39.77	21.48	0.26
WebRTC media	5	2.35	18.25	0.22

Run 1: Statistics of TCP BBR

Start at: 2019-10-03 07:03:37

End at: 2019-10-03 07:04:07

Local clock offset: 2.227 ms

Remote clock offset: -1.726 ms

Below is generated by plot.py at 2019-10-03 09:36:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.53 Mbit/s

95th percentile per-packet one-way delay: 103.470 ms

Loss rate: 2.75%

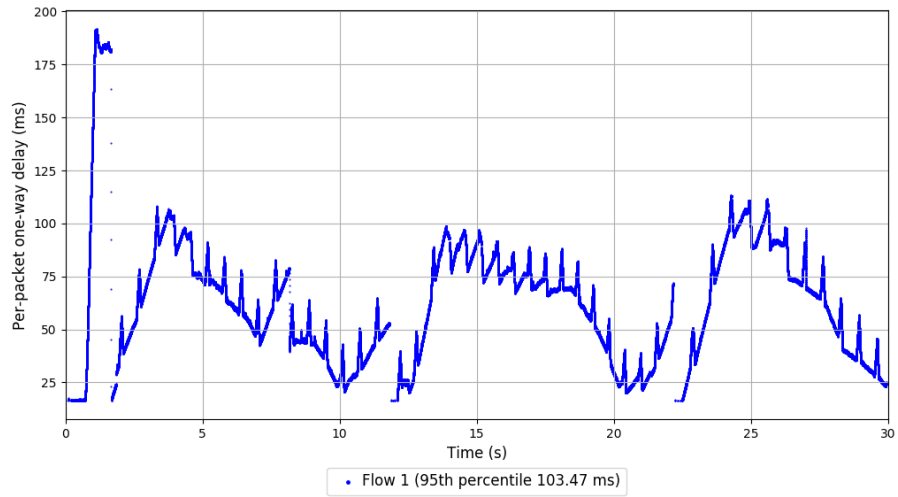
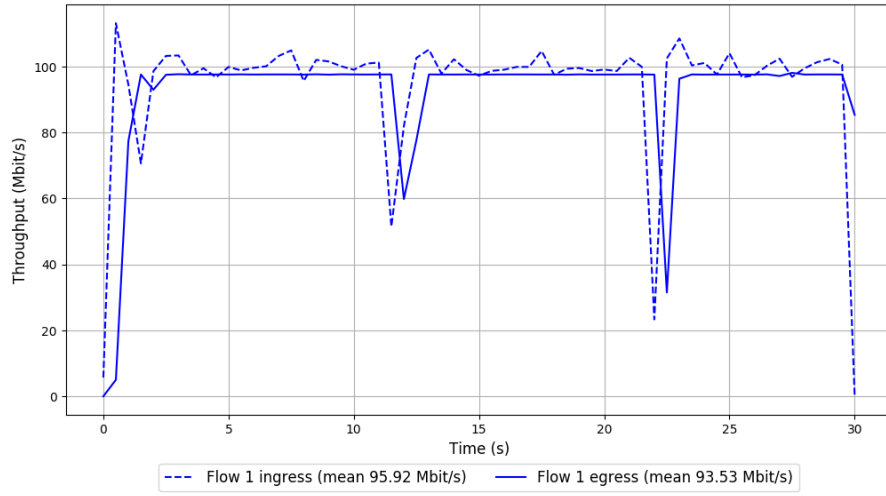
-- Flow 1:

Average throughput: 93.53 Mbit/s

95th percentile per-packet one-way delay: 103.470 ms

Loss rate: 2.75%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-10-03 07:37:39

End at: 2019-10-03 07:38:09

Local clock offset: 7.949 ms

Remote clock offset: -1.618 ms

Below is generated by plot.py at 2019-10-03 09:36:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.85 Mbit/s

95th percentile per-packet one-way delay: 73.377 ms

Loss rate: 1.49%

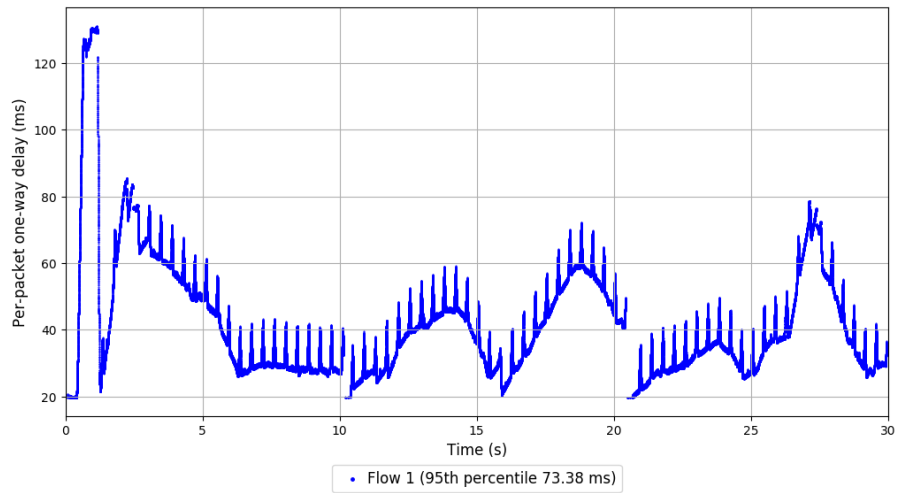
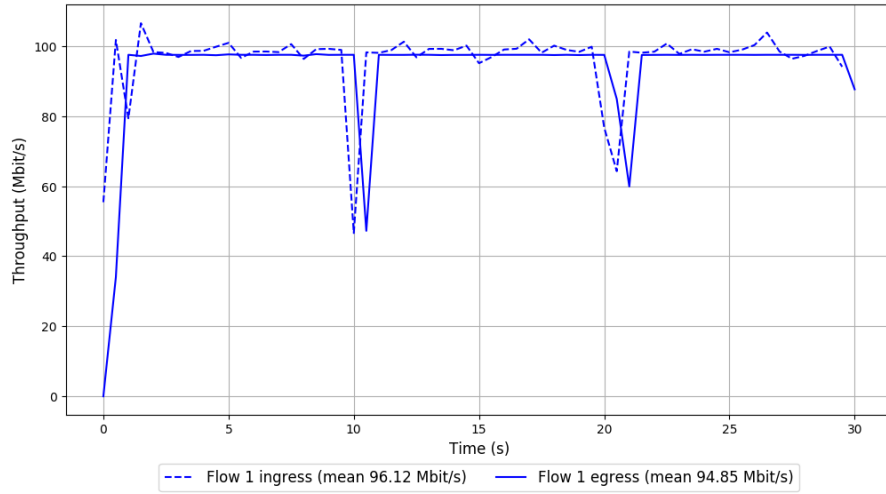
-- Flow 1:

Average throughput: 94.85 Mbit/s

95th percentile per-packet one-way delay: 73.377 ms

Loss rate: 1.49%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-10-03 08:11:28

End at: 2019-10-03 08:11:58

Local clock offset: 1.334 ms

Remote clock offset: 0.182 ms

Below is generated by plot.py at 2019-10-03 09:36:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.52 Mbit/s

95th percentile per-packet one-way delay: 77.103 ms

Loss rate: 2.55%

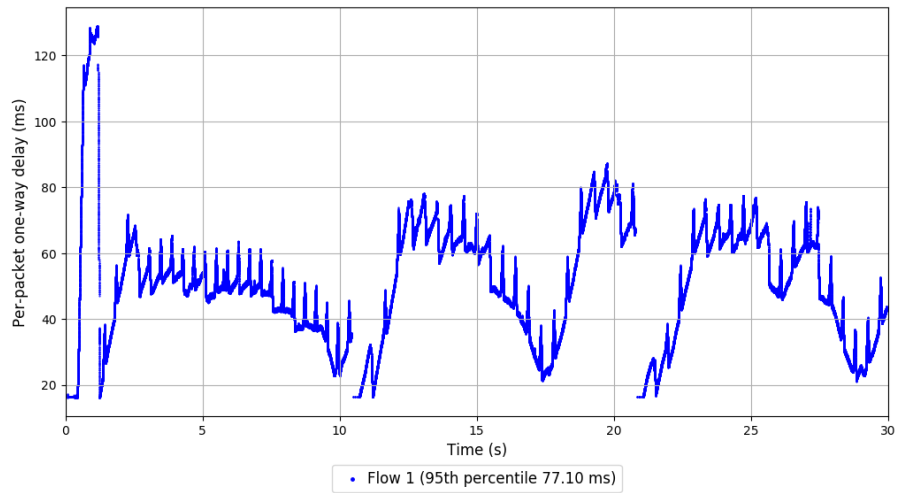
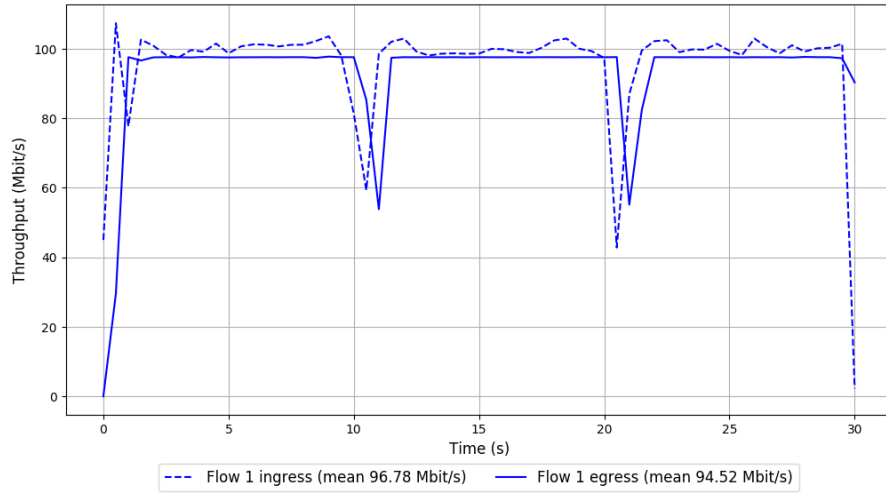
-- Flow 1:

Average throughput: 94.52 Mbit/s

95th percentile per-packet one-way delay: 77.103 ms

Loss rate: 2.55%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-10-03 08:41:48

End at: 2019-10-03 08:42:18

Local clock offset: -2.985 ms

Remote clock offset: 0.85 ms

Below is generated by plot.py at 2019-10-03 09:36:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.14 Mbit/s

95th percentile per-packet one-way delay: 94.967 ms

Loss rate: 3.62%

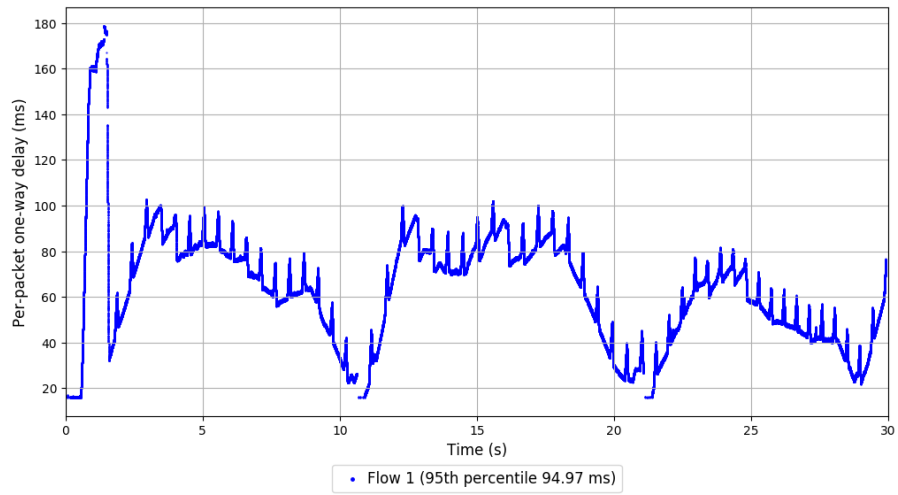
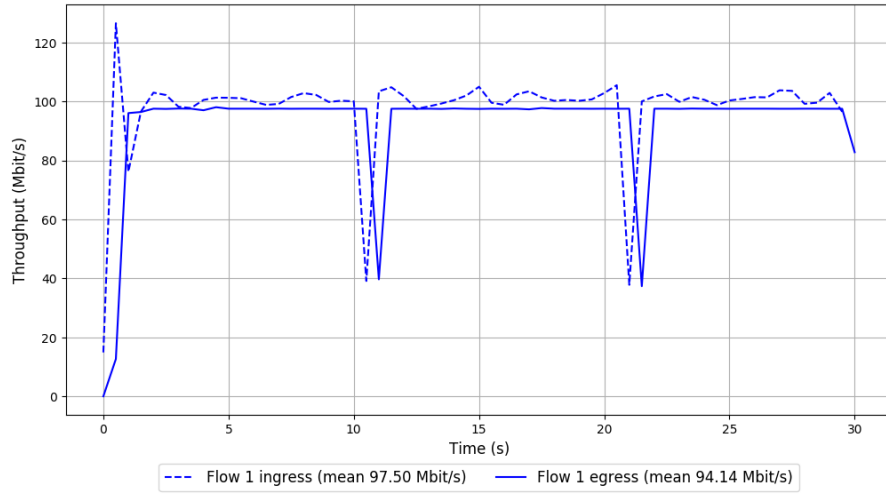
-- Flow 1:

Average throughput: 94.14 Mbit/s

95th percentile per-packet one-way delay: 94.967 ms

Loss rate: 3.62%

Run 4: Report of TCP BBR — Data Link

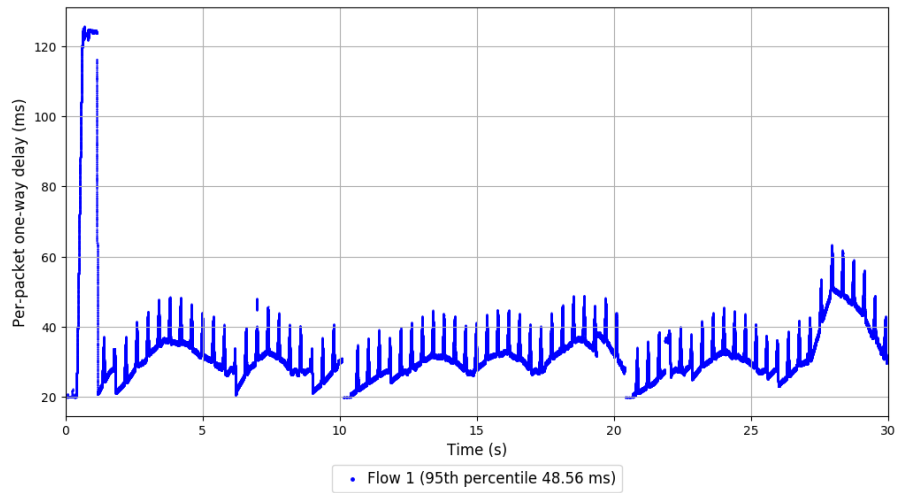
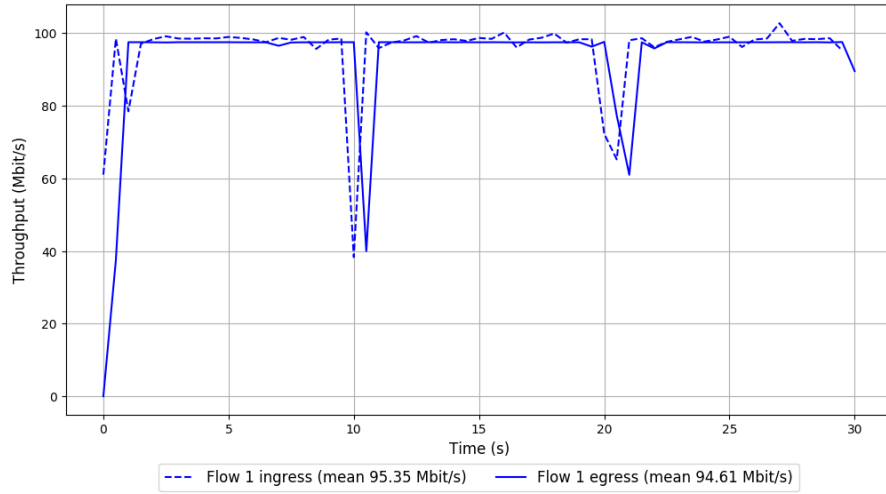


Run 5: Statistics of TCP BBR

Start at: 2019-10-03 09:11:10
End at: 2019-10-03 09:11:40
Local clock offset: 7.11 ms
Remote clock offset: -0.553 ms

Below is generated by plot.py at 2019-10-03 09:36:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.61 Mbit/s
95th percentile per-packet one-way delay: 48.565 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 94.61 Mbit/s
95th percentile per-packet one-way delay: 48.565 ms
Loss rate: 0.94%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-10-03 07:15:55

End at: 2019-10-03 07:16:25

Local clock offset: 3.8 ms

Remote clock offset: -2.663 ms

Below is generated by plot.py at 2019-10-03 09:36:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.20 Mbit/s

95th percentile per-packet one-way delay: 49.645 ms

Loss rate: 0.09%

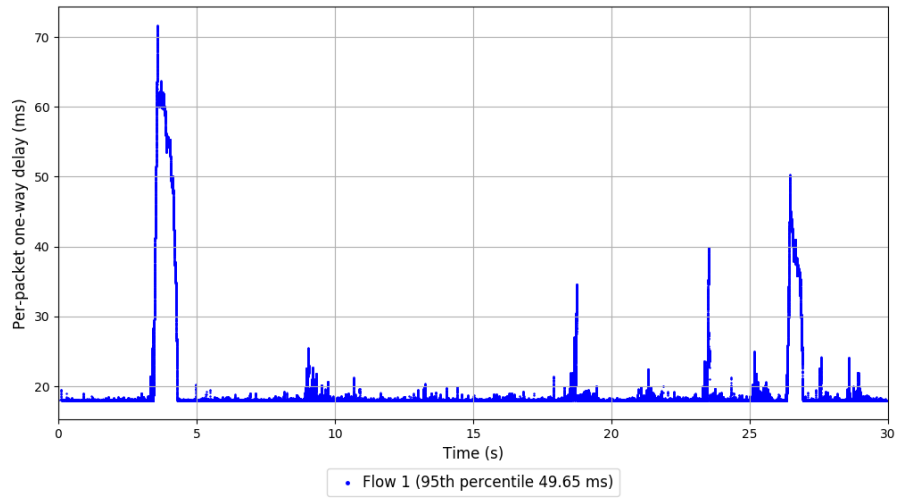
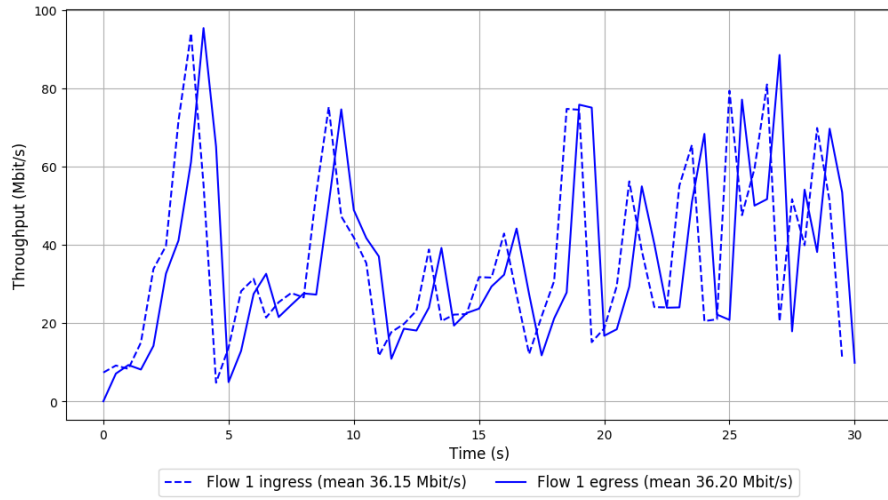
-- Flow 1:

Average throughput: 36.20 Mbit/s

95th percentile per-packet one-way delay: 49.645 ms

Loss rate: 0.09%

Run 1: Report of Copa — Data Link

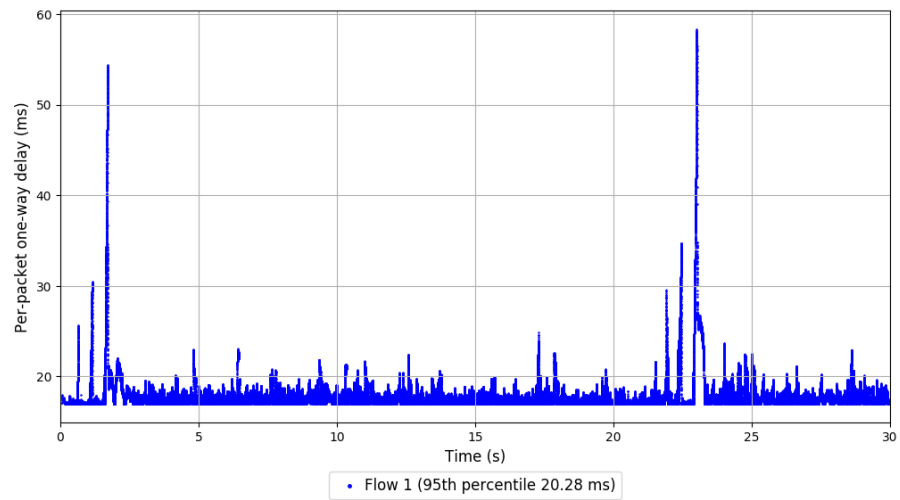
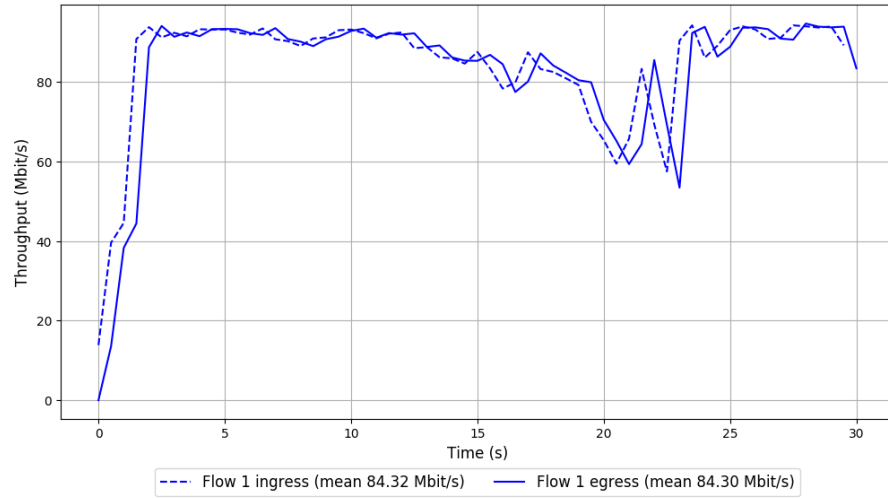


Run 2: Statistics of Copa

Start at: 2019-10-03 07:50:31
End at: 2019-10-03 07:51:01
Local clock offset: 4.184 ms
Remote clock offset: -3.088 ms

Below is generated by plot.py at 2019-10-03 09:37:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.30 Mbit/s
95th percentile per-packet one-way delay: 20.281 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 84.30 Mbit/s
95th percentile per-packet one-way delay: 20.281 ms
Loss rate: 0.18%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-10-03 08:22:33

End at: 2019-10-03 08:23:03

Local clock offset: 4.716 ms

Remote clock offset: 1.002 ms

Below is generated by plot.py at 2019-10-03 09:37:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.89 Mbit/s

95th percentile per-packet one-way delay: 28.383 ms

Loss rate: 0.25%

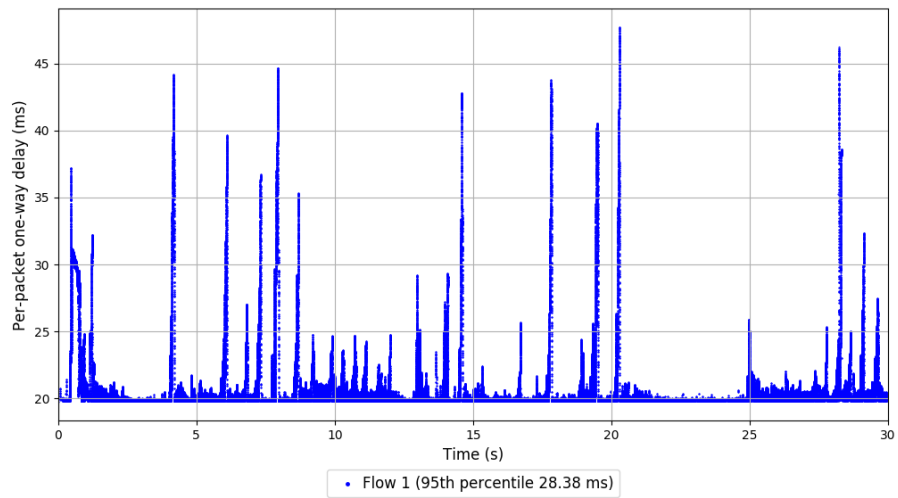
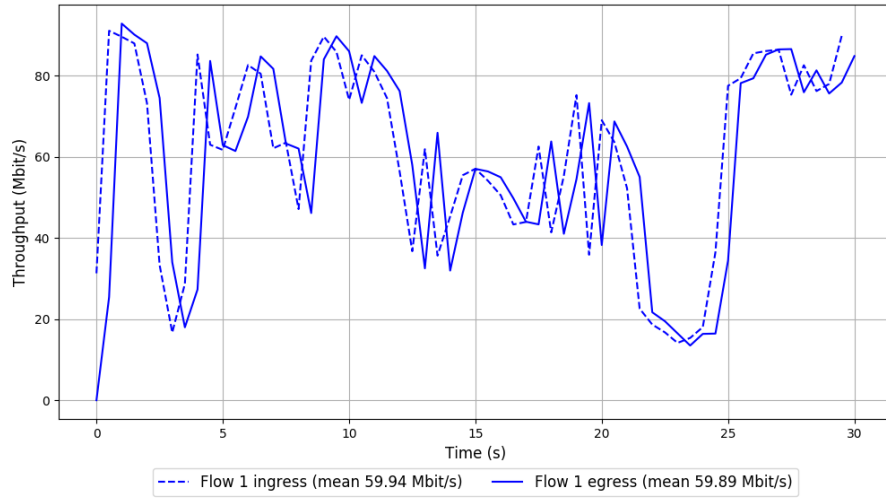
-- Flow 1:

Average throughput: 59.89 Mbit/s

95th percentile per-packet one-way delay: 28.383 ms

Loss rate: 0.25%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-10-03 08:52:46

End at: 2019-10-03 08:53:16

Local clock offset: 0.137 ms

Remote clock offset: -0.941 ms

Below is generated by plot.py at 2019-10-03 09:37:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.38 Mbit/s

95th percentile per-packet one-way delay: 24.406 ms

Loss rate: 0.35%

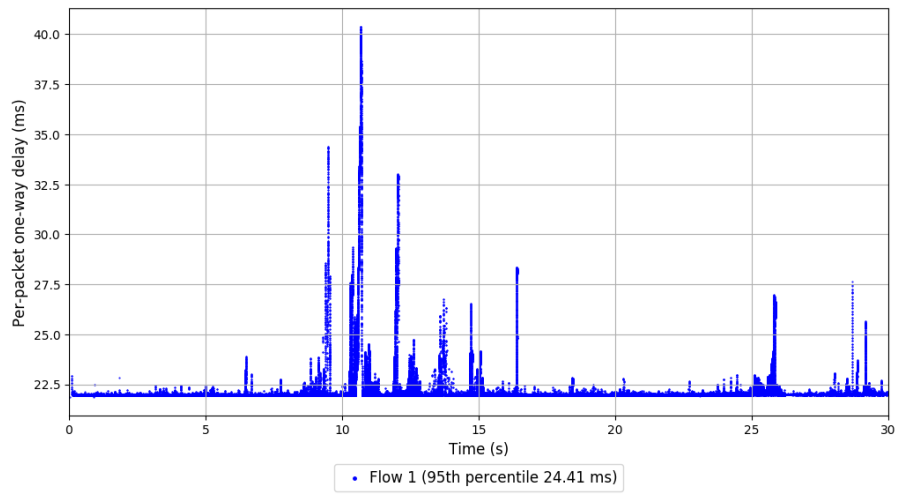
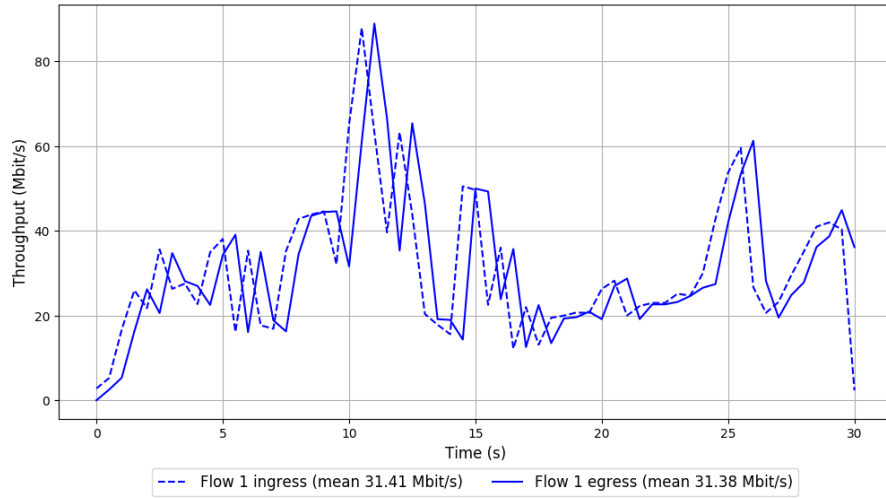
-- Flow 1:

Average throughput: 31.38 Mbit/s

95th percentile per-packet one-way delay: 24.406 ms

Loss rate: 0.35%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-10-03 09:22:03

End at: 2019-10-03 09:22:33

Local clock offset: 6.171 ms

Remote clock offset: 1.043 ms

Below is generated by plot.py at 2019-10-03 09:38:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.03 Mbit/s

95th percentile per-packet one-way delay: 30.294 ms

Loss rate: 0.19%

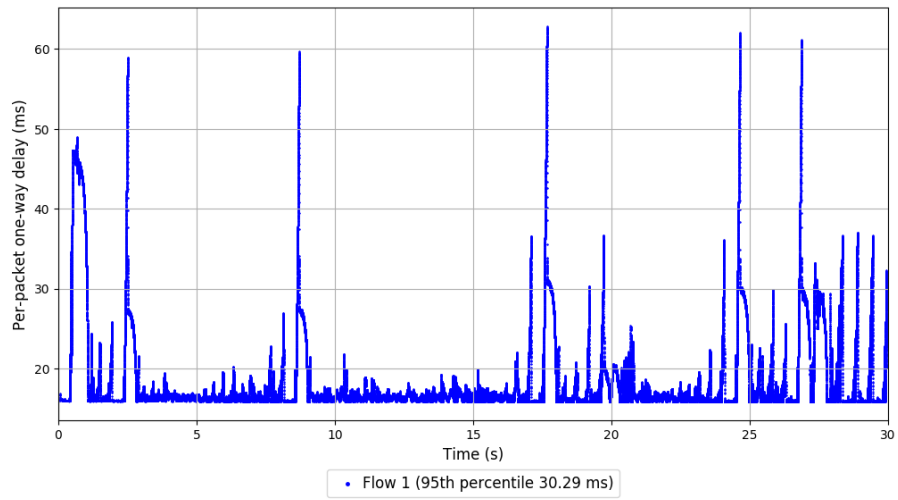
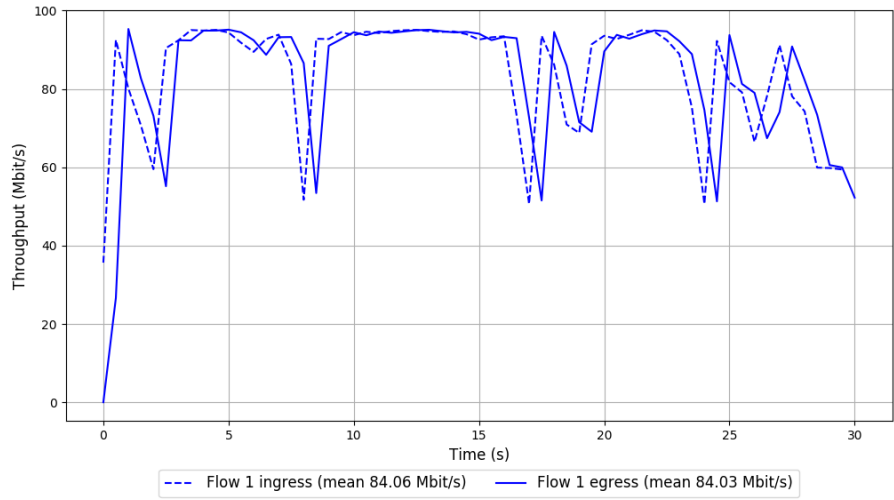
-- Flow 1:

Average throughput: 84.03 Mbit/s

95th percentile per-packet one-way delay: 30.294 ms

Loss rate: 0.19%

Run 5: Report of Copa — Data Link

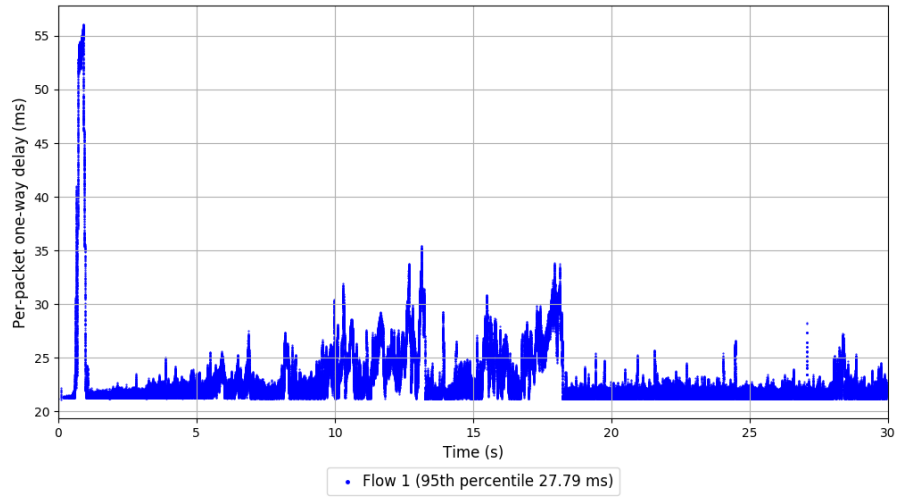
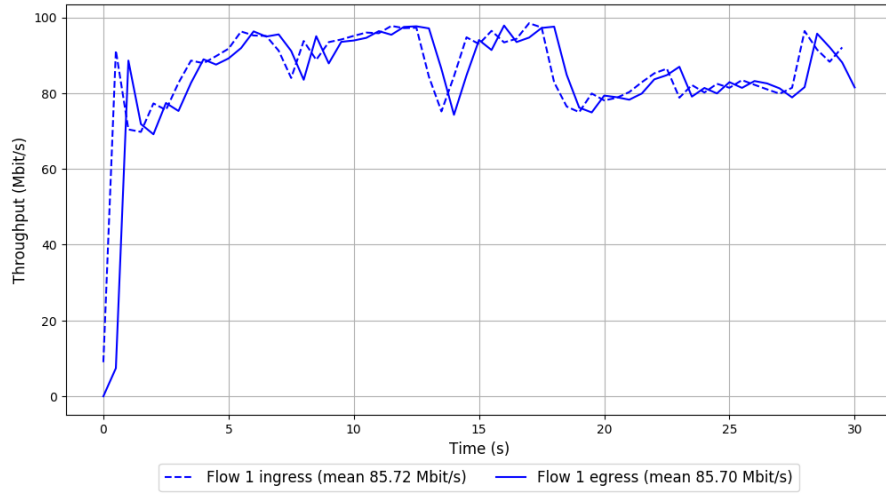


Run 1: Statistics of TCP Cubic

Start at: 2019-10-03 07:09:10
End at: 2019-10-03 07:09:40
Local clock offset: 7.424 ms
Remote clock offset: -1.863 ms

Below is generated by plot.py at 2019-10-03 09:38:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.70 Mbit/s
95th percentile per-packet one-way delay: 27.790 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 85.70 Mbit/s
95th percentile per-packet one-way delay: 27.790 ms
Loss rate: 0.29%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-10-03 07:43:27

End at: 2019-10-03 07:43:57

Local clock offset: 7.173 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2019-10-03 09:38:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.44 Mbit/s

95th percentile per-packet one-way delay: 24.286 ms

Loss rate: 0.18%

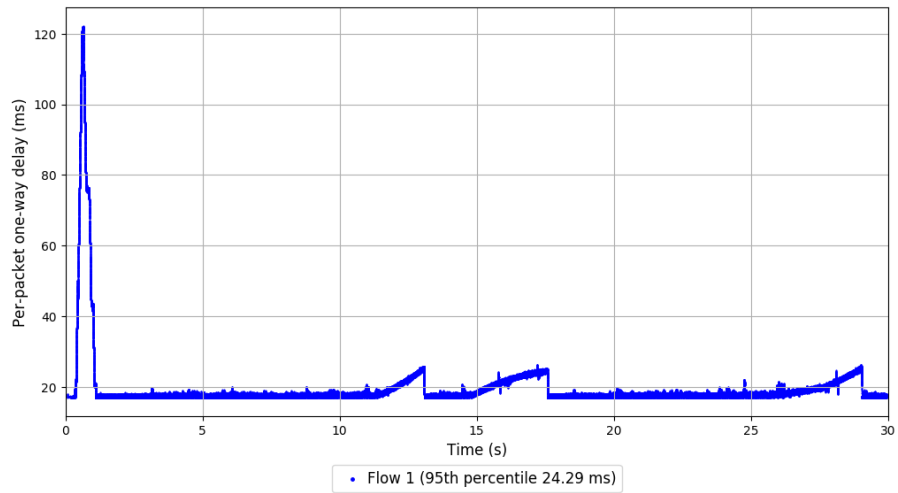
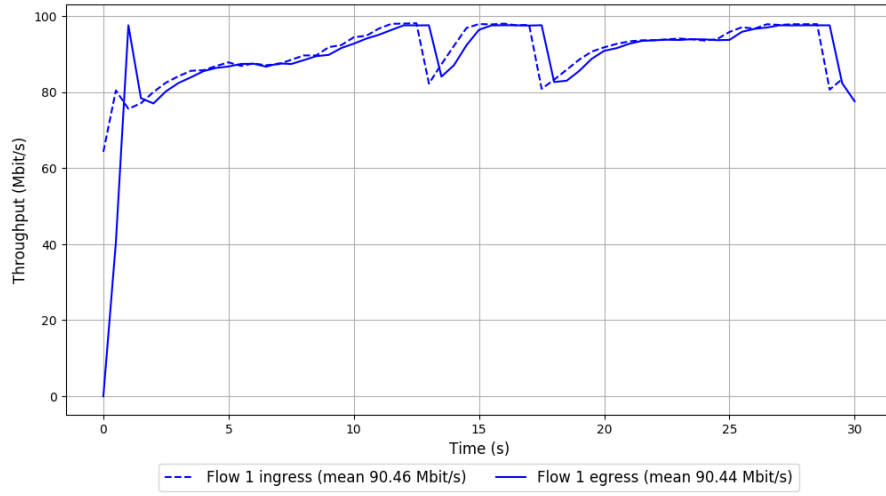
-- Flow 1:

Average throughput: 90.44 Mbit/s

95th percentile per-packet one-way delay: 24.286 ms

Loss rate: 0.18%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-10-03 08:16:25

End at: 2019-10-03 08:16:55

Local clock offset: 5.291 ms

Remote clock offset: -1.174 ms

Below is generated by plot.py at 2019-10-03 09:38:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.45 Mbit/s

95th percentile per-packet one-way delay: 29.652 ms

Loss rate: 0.19%

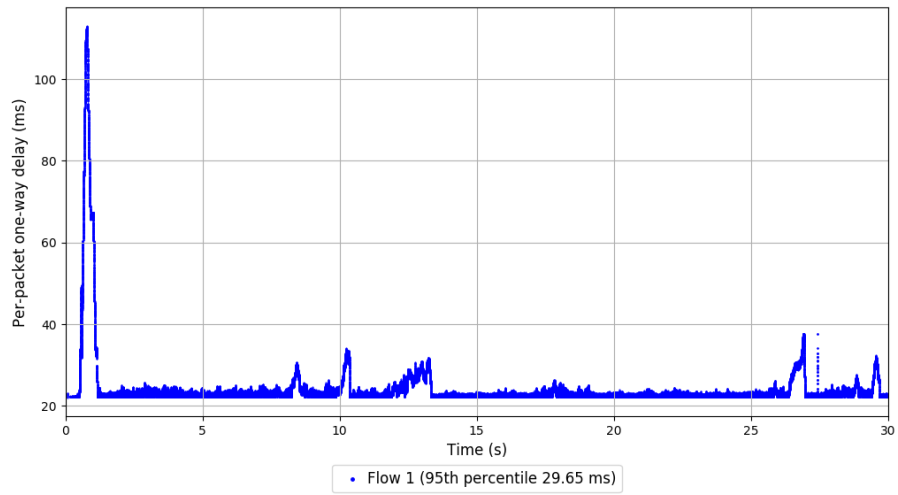
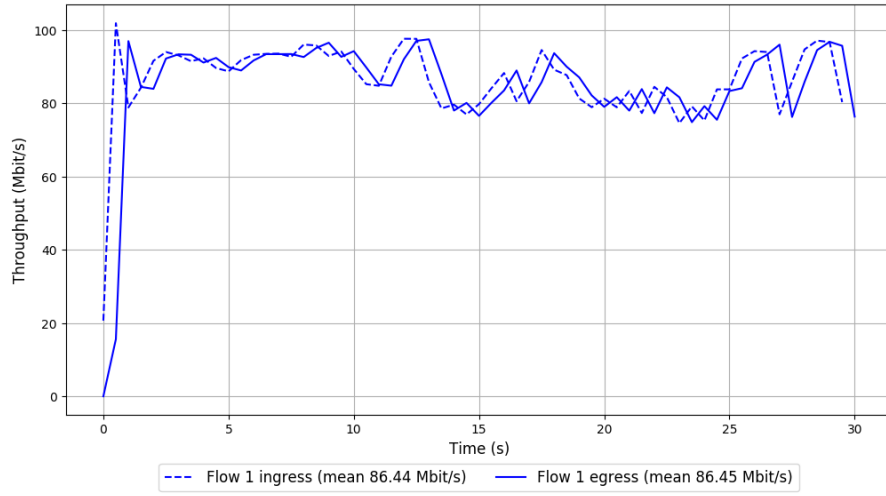
-- Flow 1:

Average throughput: 86.45 Mbit/s

95th percentile per-packet one-way delay: 29.652 ms

Loss rate: 0.19%

Run 3: Report of TCP Cubic — Data Link

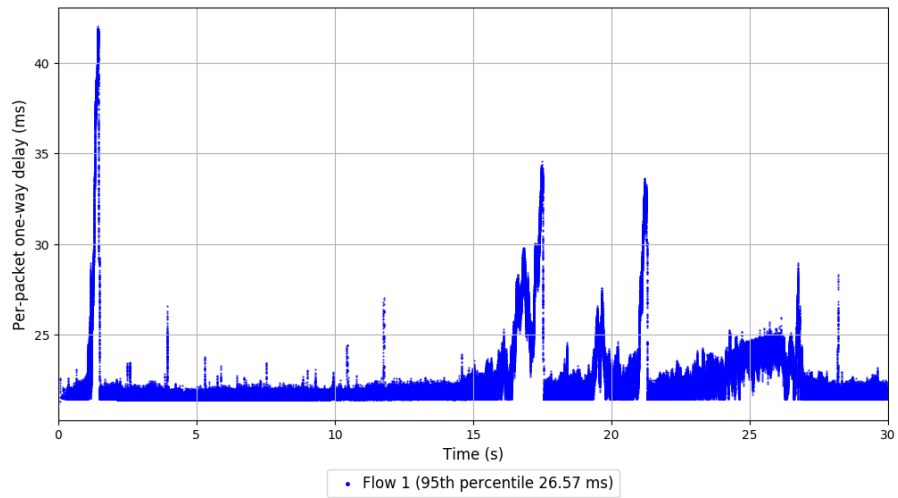
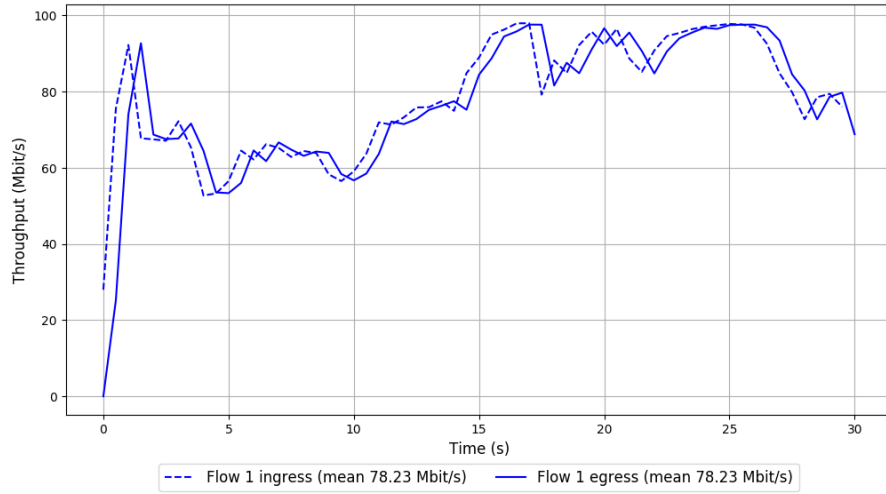


Run 4: Statistics of TCP Cubic

Start at: 2019-10-03 08:46:45
End at: 2019-10-03 08:47:15
Local clock offset: 0.809 ms
Remote clock offset: -0.149 ms

Below is generated by plot.py at 2019-10-03 09:38:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.23 Mbit/s
95th percentile per-packet one-way delay: 26.573 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 78.23 Mbit/s
95th percentile per-packet one-way delay: 26.573 ms
Loss rate: 0.24%

Run 4: Report of TCP Cubic — Data Link

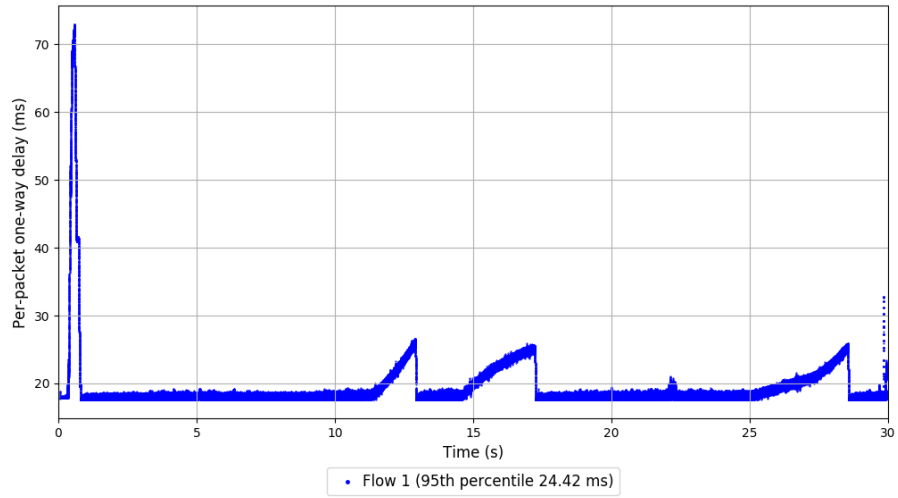
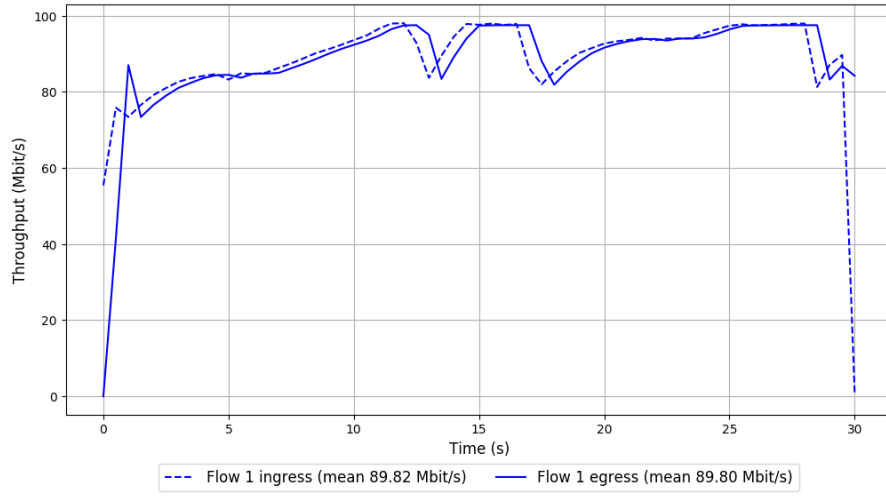


Run 5: Statistics of TCP Cubic

Start at: 2019-10-03 09:15:57
End at: 2019-10-03 09:16:27
Local clock offset: 5.746 ms
Remote clock offset: -0.387 ms

```
# Below is generated by plot.py at 2019-10-03 09:38:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.80 Mbit/s
95th percentile per-packet one-way delay: 24.420 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 89.80 Mbit/s
95th percentile per-packet one-way delay: 24.420 ms
Loss rate: 0.18%
```

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-10-03 07:21:22

End at: 2019-10-03 07:21:52

Local clock offset: 6.232 ms

Remote clock offset: -0.876 ms

Below is generated by plot.py at 2019-10-03 09:38:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.70 Mbit/s

95th percentile per-packet one-way delay: 37.856 ms

Loss rate: 0.32%

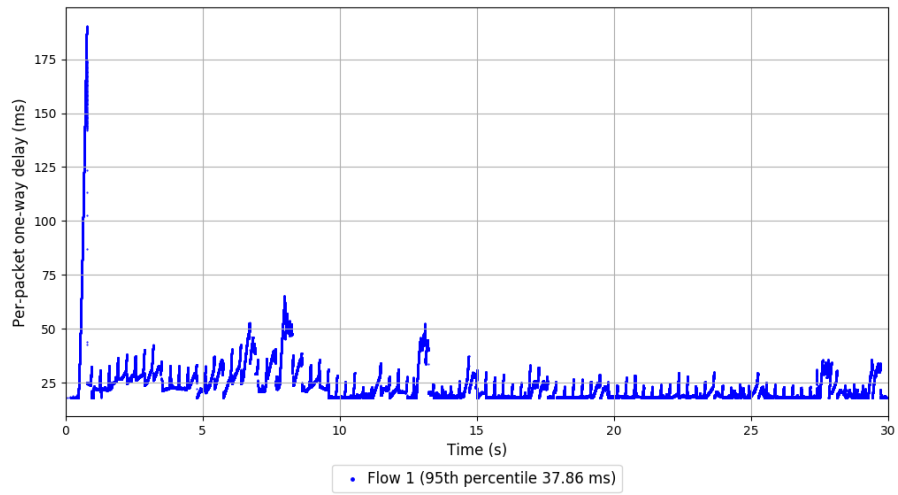
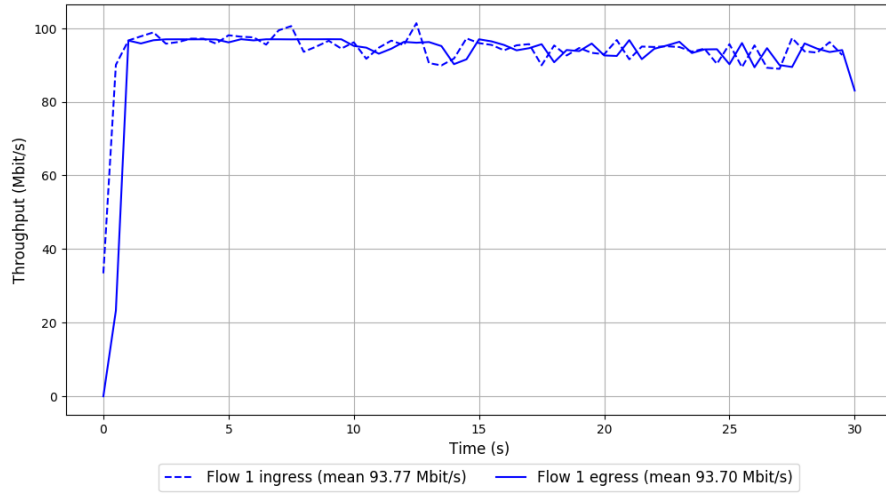
-- Flow 1:

Average throughput: 93.70 Mbit/s

95th percentile per-packet one-way delay: 37.856 ms

Loss rate: 0.32%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-10-03 07:57:09

End at: 2019-10-03 07:57:39

Local clock offset: 5.556 ms

Remote clock offset: 1.588 ms

Below is generated by plot.py at 2019-10-03 09:38:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.96 Mbit/s

95th percentile per-packet one-way delay: 35.055 ms

Loss rate: 0.31%

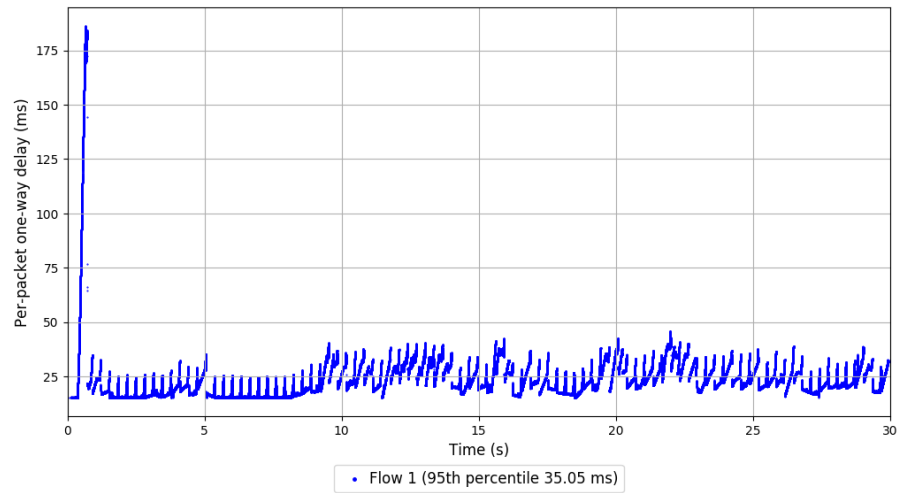
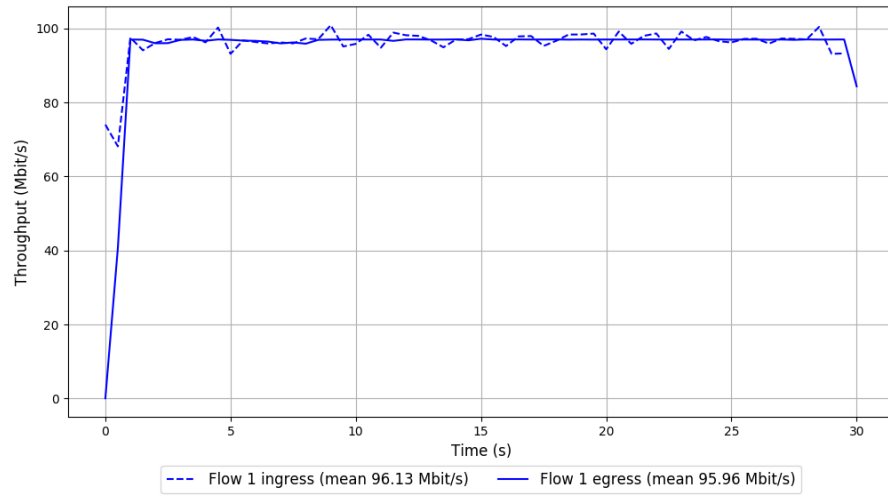
-- Flow 1:

Average throughput: 95.96 Mbit/s

95th percentile per-packet one-way delay: 35.055 ms

Loss rate: 0.31%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-10-03 08:27:45

End at: 2019-10-03 08:28:15

Local clock offset: 1.603 ms

Remote clock offset: 0.565 ms

Below is generated by plot.py at 2019-10-03 09:38:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.70 Mbit/s

95th percentile per-packet one-way delay: 27.283 ms

Loss rate: 0.18%

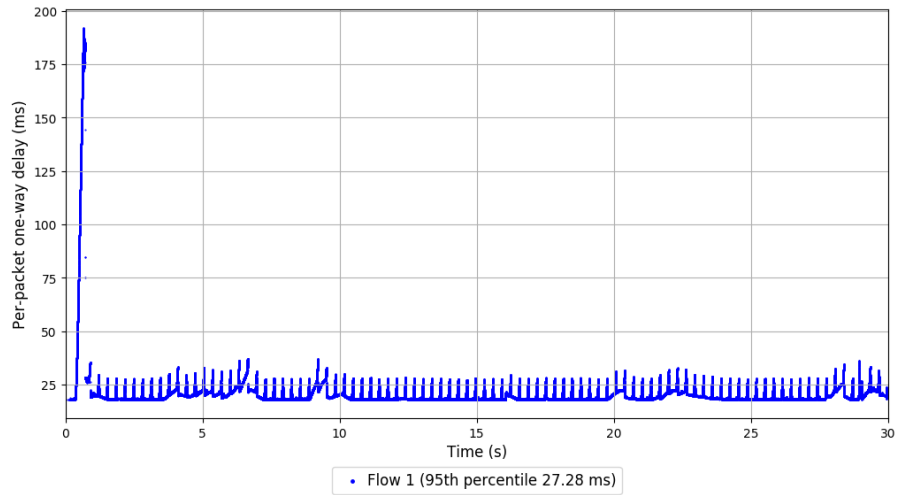
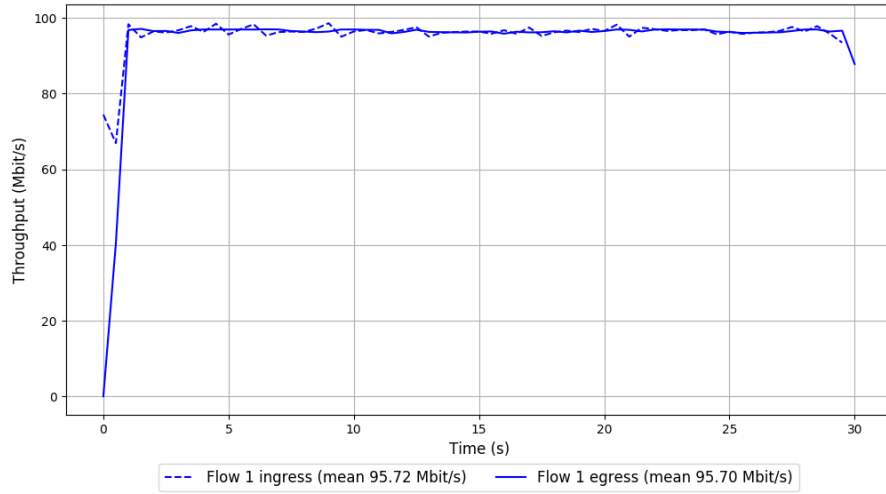
-- Flow 1:

Average throughput: 95.70 Mbit/s

95th percentile per-packet one-way delay: 27.283 ms

Loss rate: 0.18%

Run 3: Report of FillP — Data Link

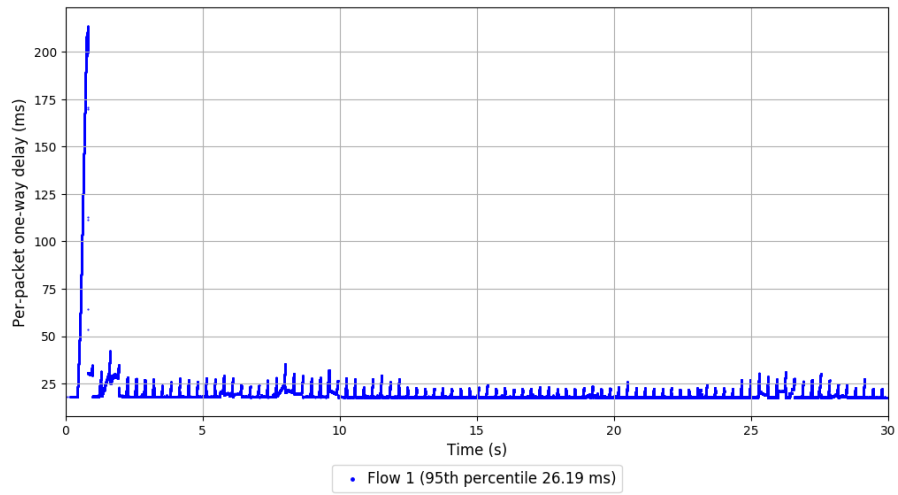
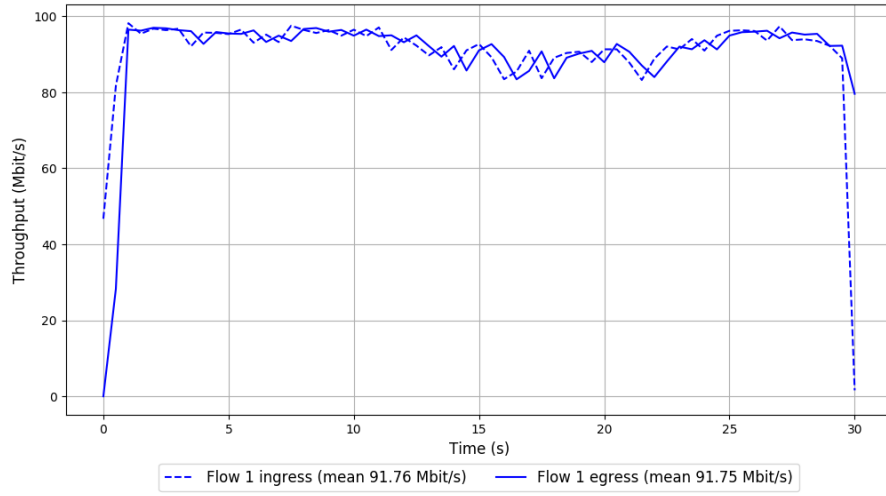


Run 4: Statistics of FillP

Start at: 2019-10-03 08:57:40
End at: 2019-10-03 08:58:10
Local clock offset: -1.493 ms
Remote clock offset: -1.413 ms

Below is generated by plot.py at 2019-10-03 09:38:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.75 Mbit/s
95th percentile per-packet one-way delay: 26.191 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 91.75 Mbit/s
95th percentile per-packet one-way delay: 26.191 ms
Loss rate: 0.27%

Run 4: Report of FillP — Data Link

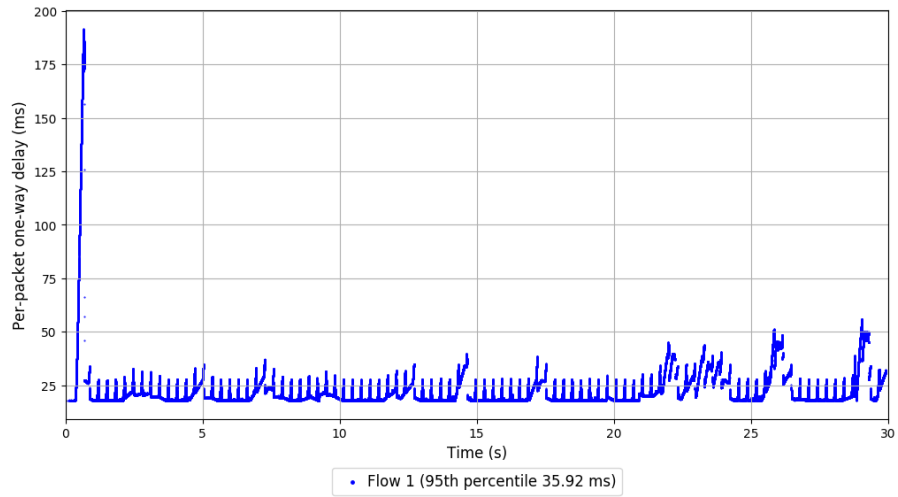
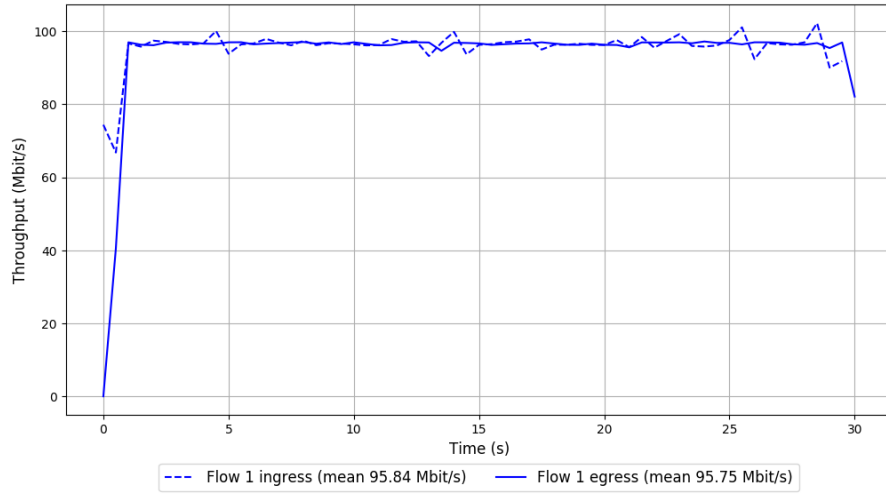


Run 5: Statistics of FillP

Start at: 2019-10-03 09:27:09
End at: 2019-10-03 09:27:39
Local clock offset: 5.647 ms
Remote clock offset: -0.211 ms

Below is generated by plot.py at 2019-10-03 09:38:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.75 Mbit/s
95th percentile per-packet one-way delay: 35.921 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 95.75 Mbit/s
95th percentile per-packet one-way delay: 35.921 ms
Loss rate: 0.26%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-10-03 07:07:41

End at: 2019-10-03 07:08:11

Local clock offset: 3.693 ms

Remote clock offset: -2.379 ms

Below is generated by plot.py at 2019-10-03 09:38:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.95 Mbit/s

95th percentile per-packet one-way delay: 23.941 ms

Loss rate: 0.29%

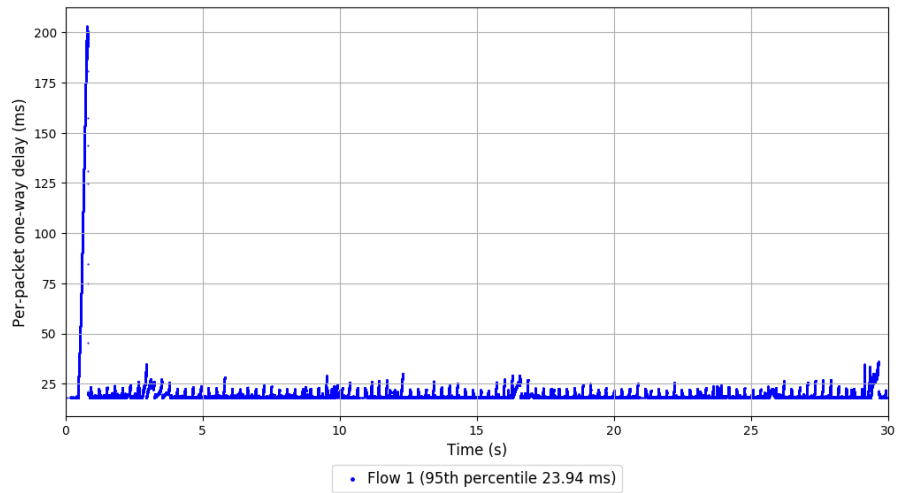
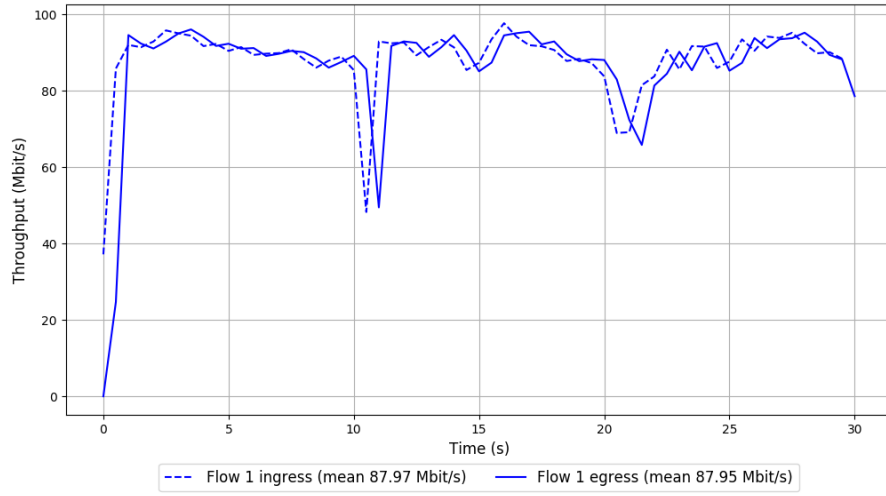
-- Flow 1:

Average throughput: 87.95 Mbit/s

95th percentile per-packet one-way delay: 23.941 ms

Loss rate: 0.29%

Run 1: Report of FillP-Sheep — Data Link

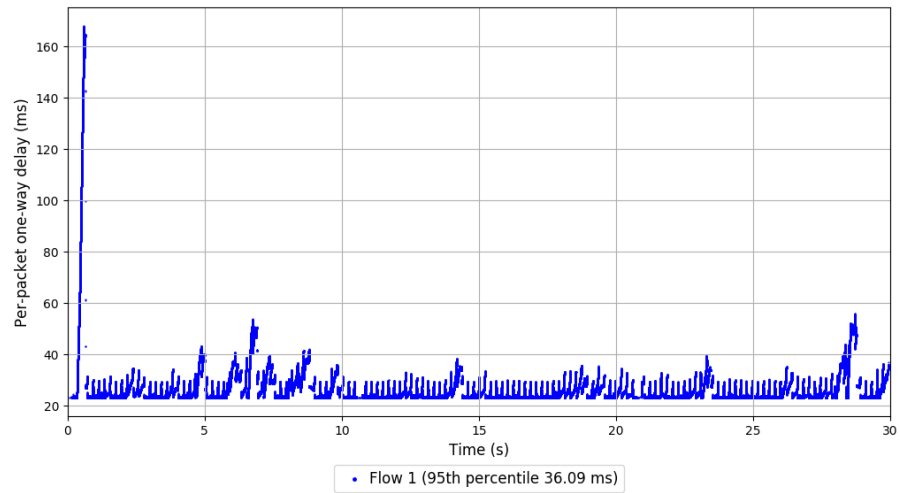
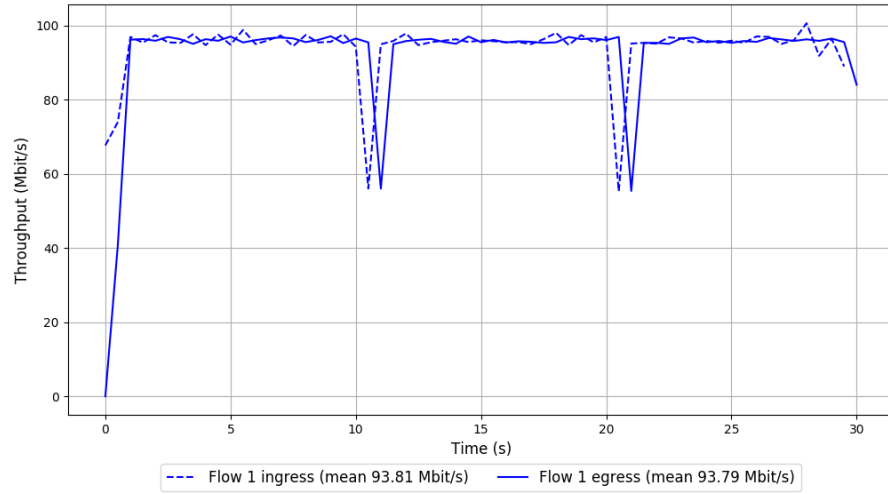


Run 2: Statistics of FillP-Sheep

Start at: 2019-10-03 07:41:59
End at: 2019-10-03 07:42:29
Local clock offset: 11.111 ms
Remote clock offset: -2.261 ms

Below is generated by plot.py at 2019-10-03 09:39:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.79 Mbit/s
95th percentile per-packet one-way delay: 36.094 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 93.79 Mbit/s
95th percentile per-packet one-way delay: 36.094 ms
Loss rate: 0.19%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-10-03 08:15:07

End at: 2019-10-03 08:15:37

Local clock offset: 5.707 ms

Remote clock offset: 1.499 ms

Below is generated by plot.py at 2019-10-03 09:39:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.41 Mbit/s

95th percentile per-packet one-way delay: 24.271 ms

Loss rate: 0.21%

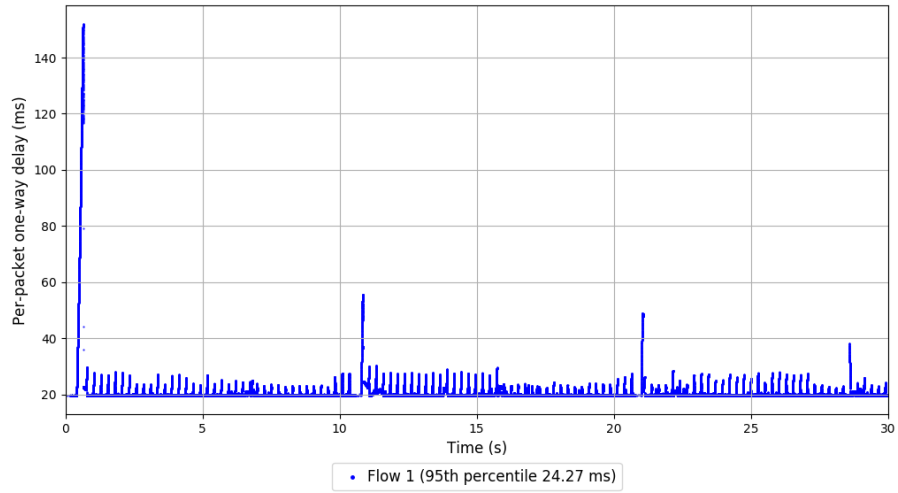
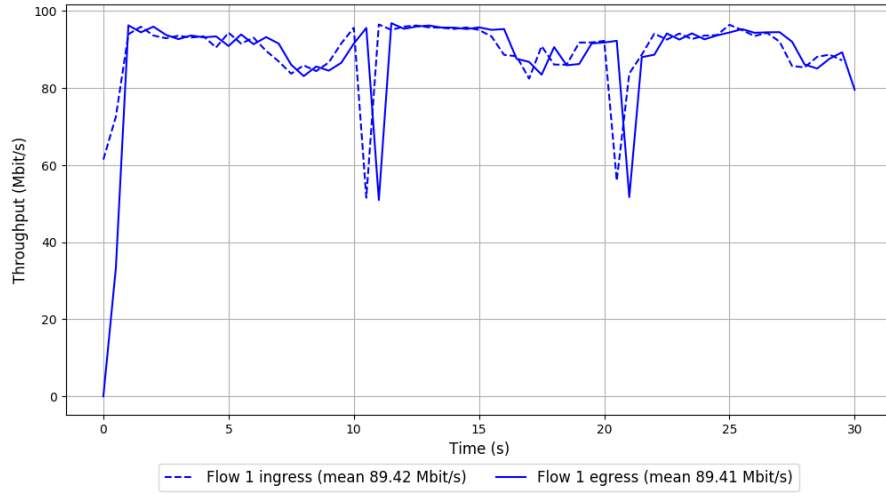
-- Flow 1:

Average throughput: 89.41 Mbit/s

95th percentile per-packet one-way delay: 24.271 ms

Loss rate: 0.21%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-10-03 08:45:30

End at: 2019-10-03 08:46:00

Local clock offset: -3.011 ms

Remote clock offset: 0.51 ms

Below is generated by plot.py at 2019-10-03 09:39:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.02 Mbit/s

95th percentile per-packet one-way delay: 21.401 ms

Loss rate: 0.22%

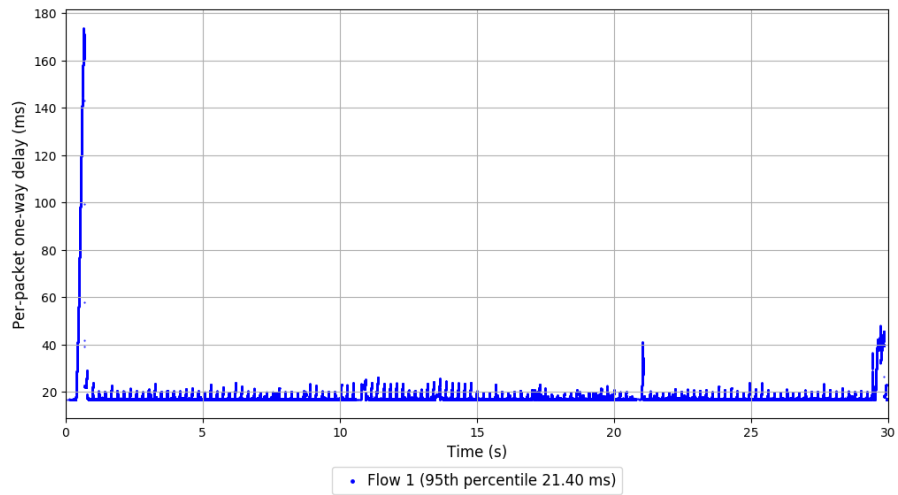
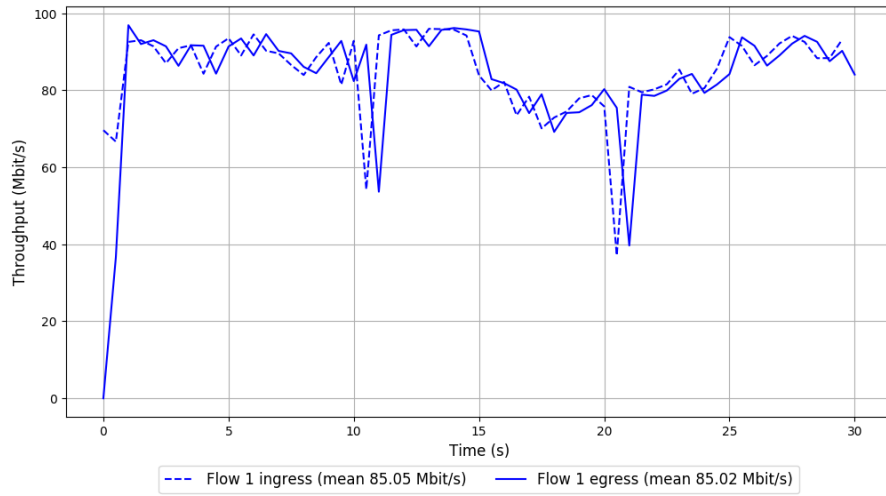
-- Flow 1:

Average throughput: 85.02 Mbit/s

95th percentile per-packet one-way delay: 21.401 ms

Loss rate: 0.22%

Run 4: Report of FillP-Sheep — Data Link

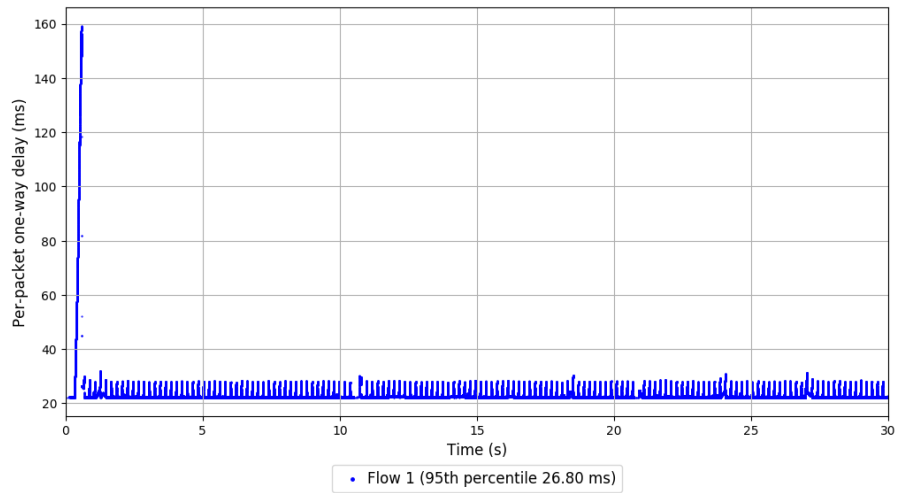
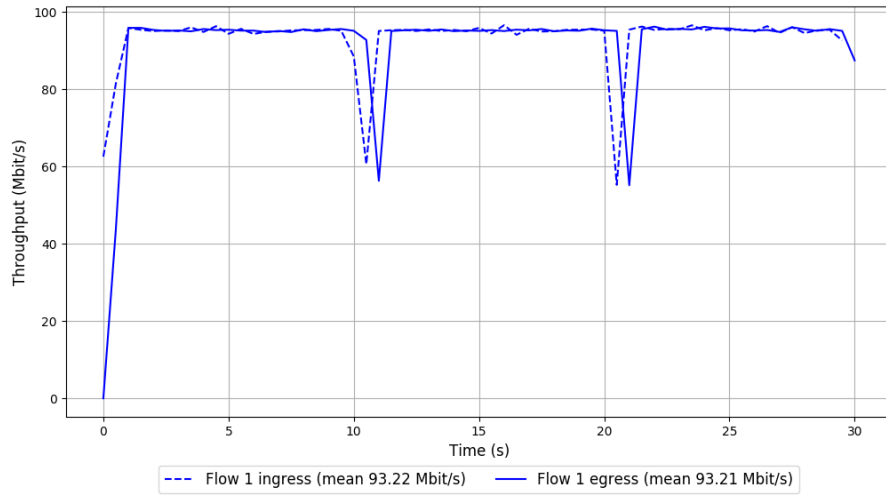


Run 5: Statistics of FillP-Sheep

Start at: 2019-10-03 09:14:45
End at: 2019-10-03 09:15:15
Local clock offset: 10.044 ms
Remote clock offset: -0.594 ms

```
# Below is generated by plot.py at 2019-10-03 09:40:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.21 Mbit/s
95th percentile per-packet one-way delay: 26.799 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 93.21 Mbit/s
95th percentile per-packet one-way delay: 26.799 ms
Loss rate: 0.17%
```

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-10-03 07:00:15

End at: 2019-10-03 07:00:45

Local clock offset: 4.317 ms

Remote clock offset: -2.384 ms

Below is generated by plot.py at 2019-10-03 09:40:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.59 Mbit/s

95th percentile per-packet one-way delay: 22.953 ms

Loss rate: 0.08%

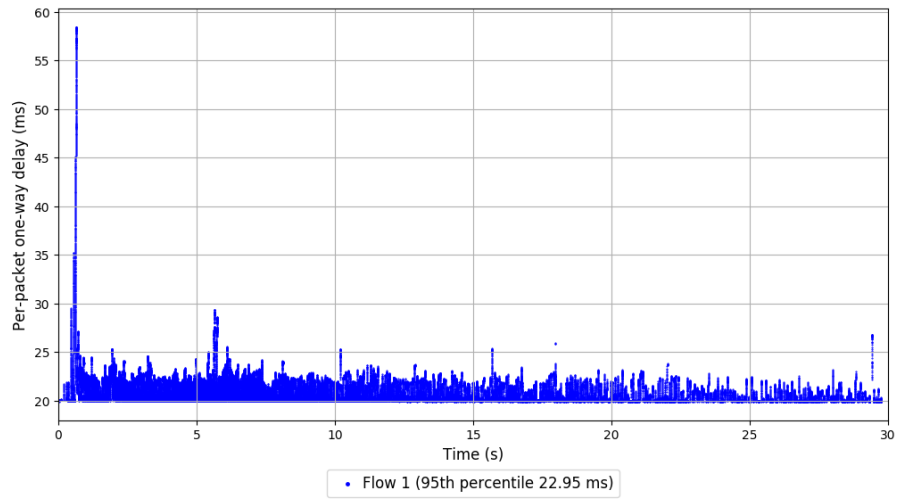
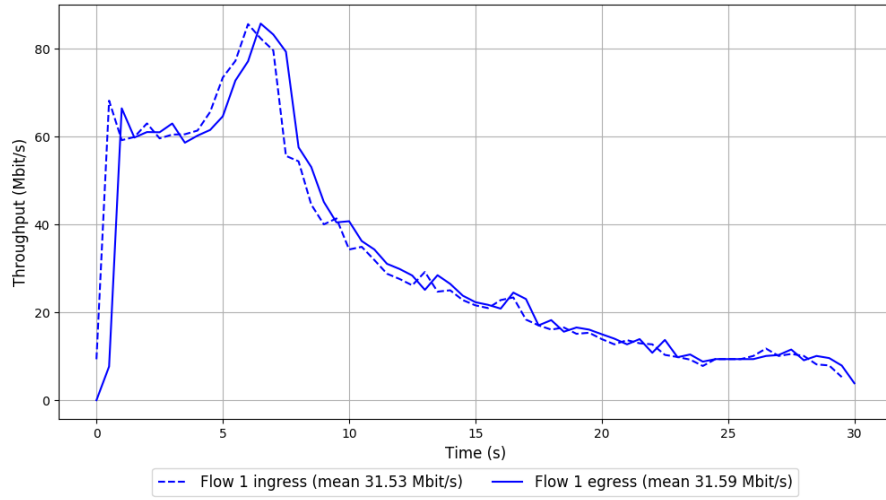
-- Flow 1:

Average throughput: 31.59 Mbit/s

95th percentile per-packet one-way delay: 22.953 ms

Loss rate: 0.08%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-10-03 07:34:17

End at: 2019-10-03 07:34:47

Local clock offset: 7.704 ms

Remote clock offset: 1.053 ms

Below is generated by plot.py at 2019-10-03 09:40:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.71 Mbit/s

95th percentile per-packet one-way delay: 21.846 ms

Loss rate: 0.16%

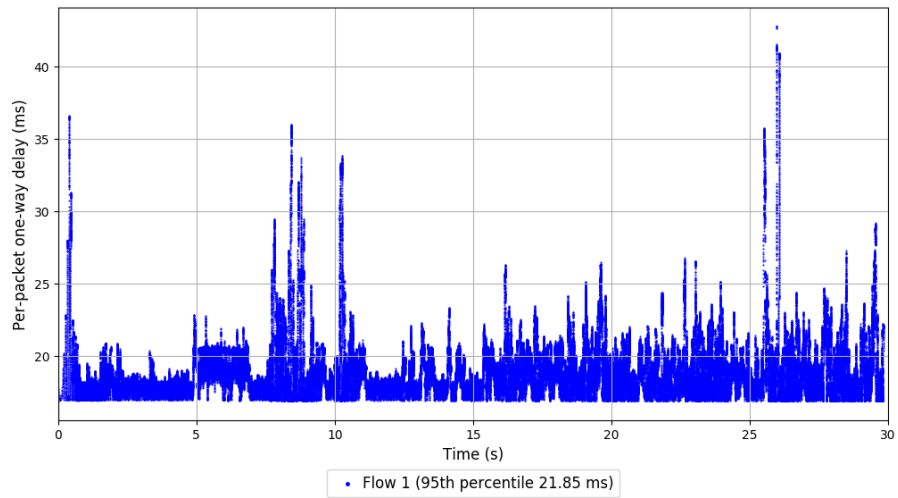
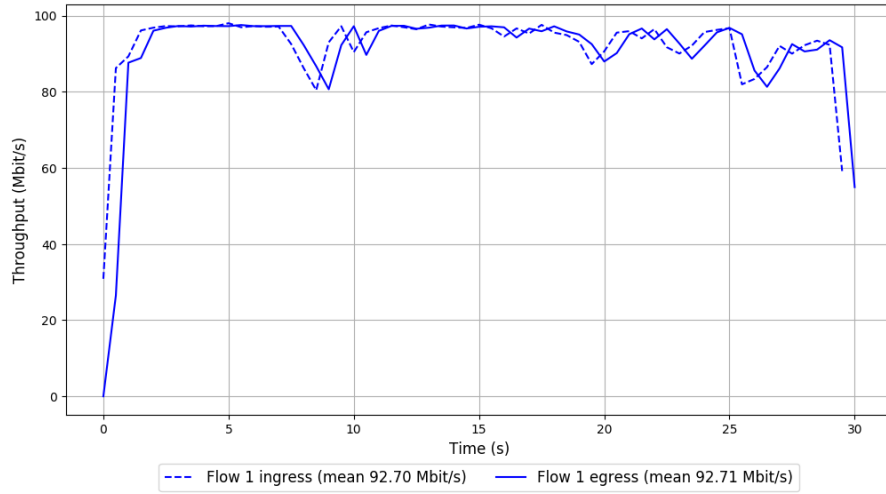
-- Flow 1:

Average throughput: 92.71 Mbit/s

95th percentile per-packet one-way delay: 21.846 ms

Loss rate: 0.16%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-10-03 08:08:56

End at: 2019-10-03 08:09:26

Local clock offset: 6.461 ms

Remote clock offset: -1.573 ms

Below is generated by plot.py at 2019-10-03 09:40:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.54 Mbit/s

95th percentile per-packet one-way delay: 25.277 ms

Loss rate: 0.06%

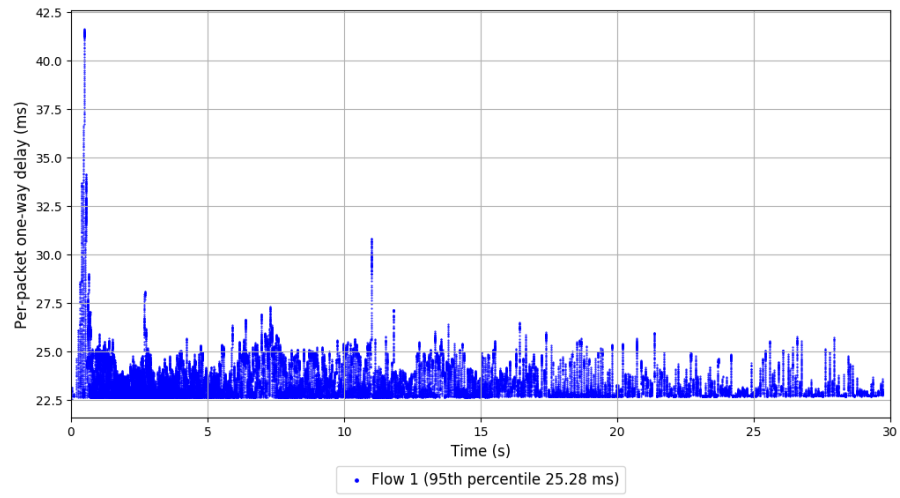
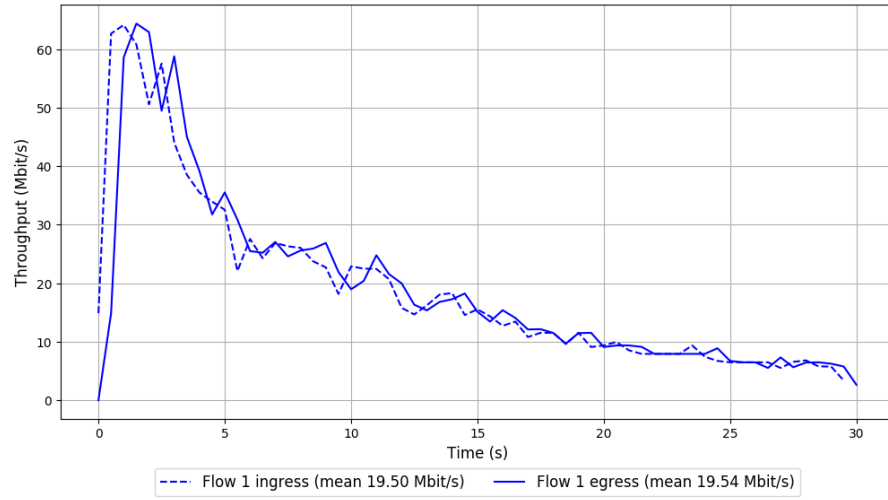
-- Flow 1:

Average throughput: 19.54 Mbit/s

95th percentile per-packet one-way delay: 25.277 ms

Loss rate: 0.06%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-10-03 08:39:09

End at: 2019-10-03 08:39:39

Local clock offset: -3.29 ms

Remote clock offset: -1.103 ms

Below is generated by plot.py at 2019-10-03 09:40:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.98 Mbit/s

95th percentile per-packet one-way delay: 24.193 ms

Loss rate: 0.08%

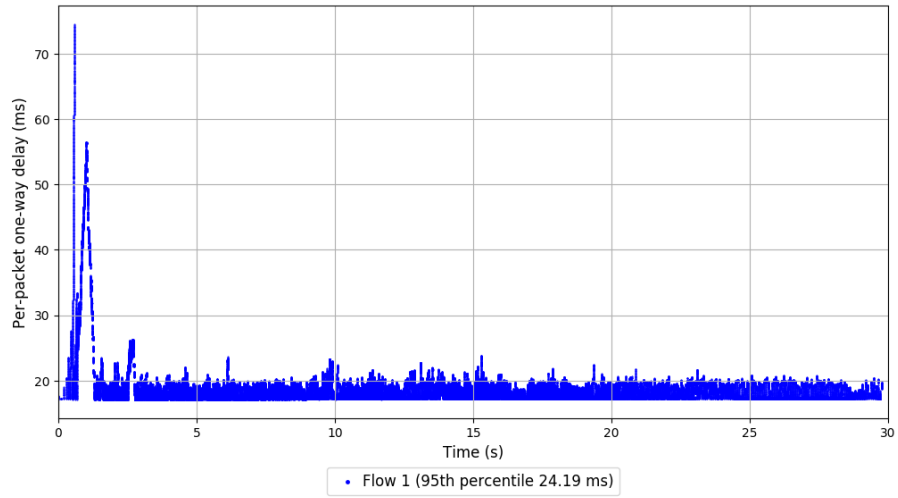
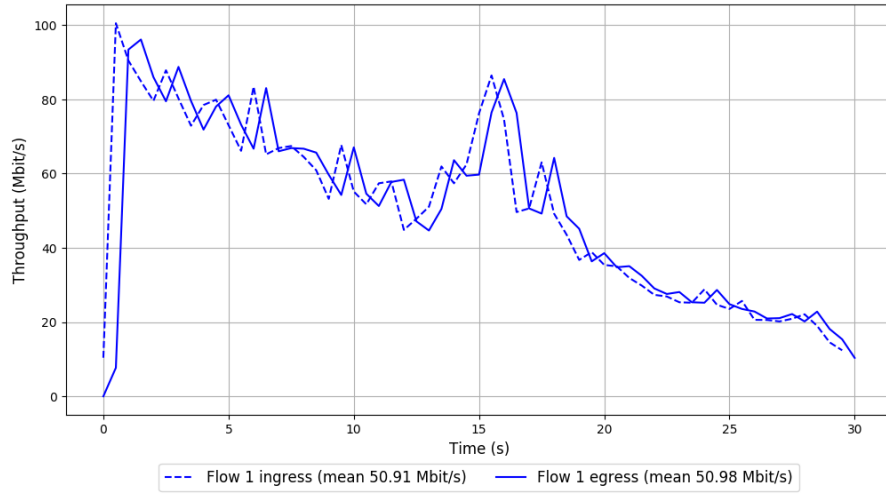
-- Flow 1:

Average throughput: 50.98 Mbit/s

95th percentile per-packet one-way delay: 24.193 ms

Loss rate: 0.08%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-10-03 09:08:30

End at: 2019-10-03 09:09:00

Local clock offset: 8.785 ms

Remote clock offset: 0.358 ms

Below is generated by plot.py at 2019-10-03 09:40:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.69 Mbit/s

95th percentile per-packet one-way delay: 23.494 ms

Loss rate: 0.18%

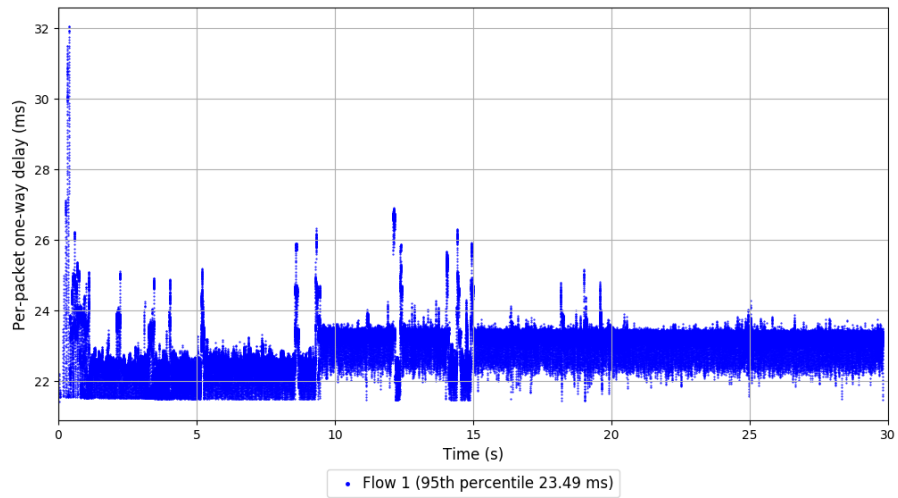
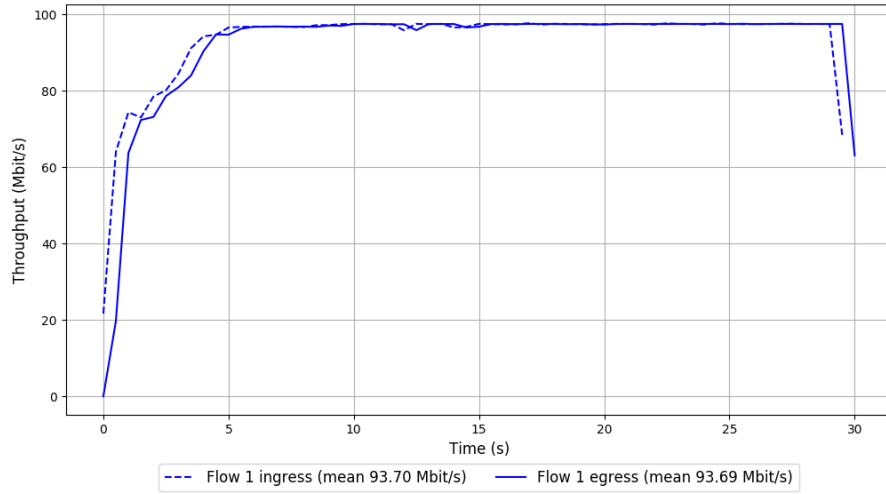
-- Flow 1:

Average throughput: 93.69 Mbit/s

95th percentile per-packet one-way delay: 23.494 ms

Loss rate: 0.18%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-10-03 07:23:01

End at: 2019-10-03 07:23:31

Local clock offset: 4.066 ms

Remote clock offset: -1.874 ms

Below is generated by plot.py at 2019-10-03 09:40:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.60 Mbit/s

95th percentile per-packet one-way delay: 31.165 ms

Loss rate: 0.08%

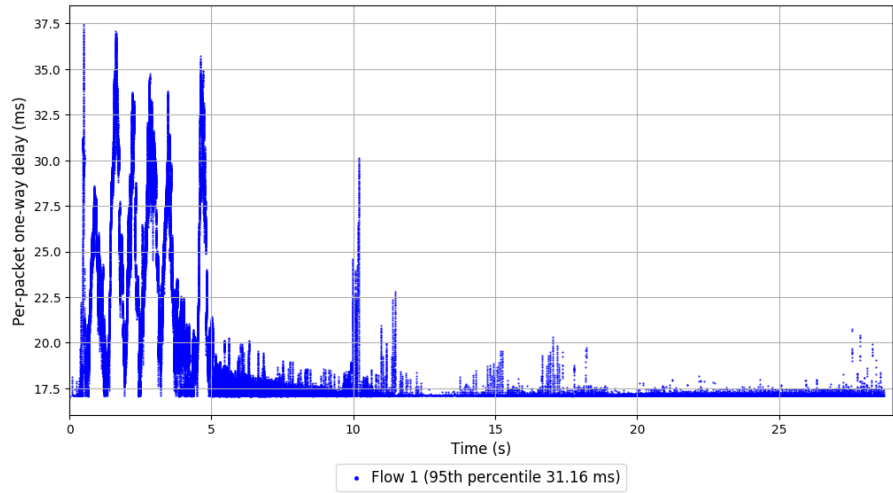
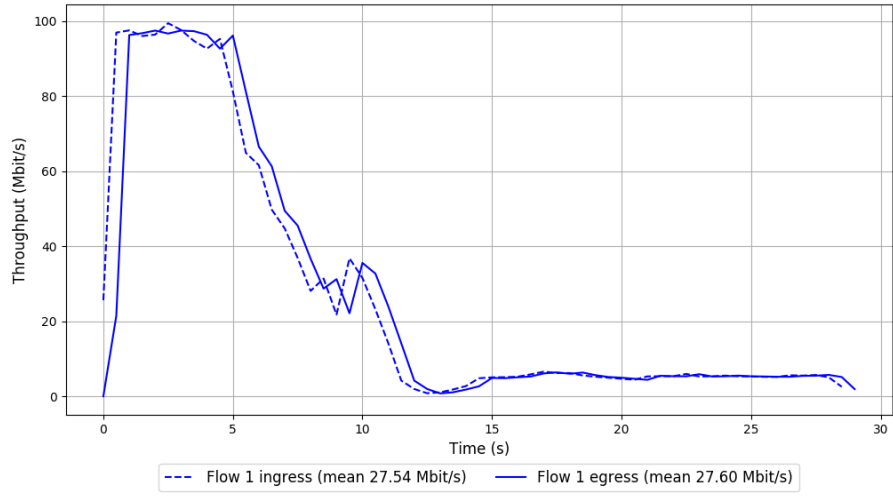
-- Flow 1:

Average throughput: 27.60 Mbit/s

95th percentile per-packet one-way delay: 31.165 ms

Loss rate: 0.08%

Run 1: Report of Indigo-MusesC3 — Data Link

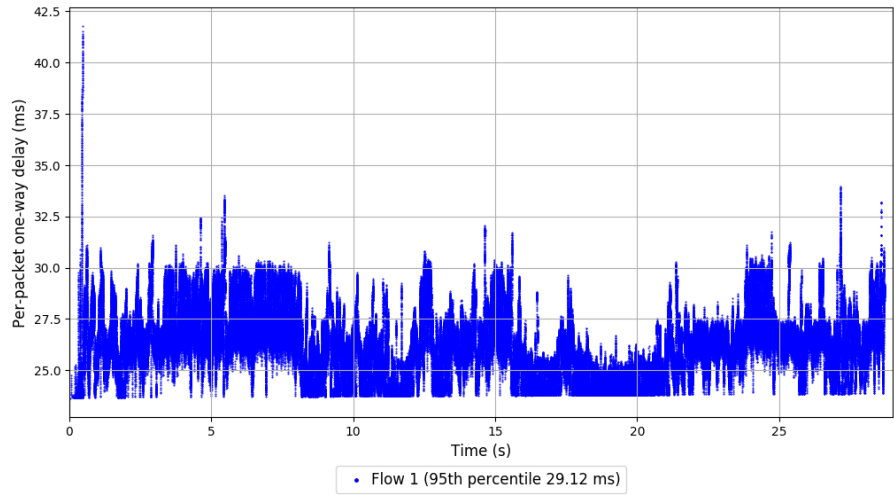
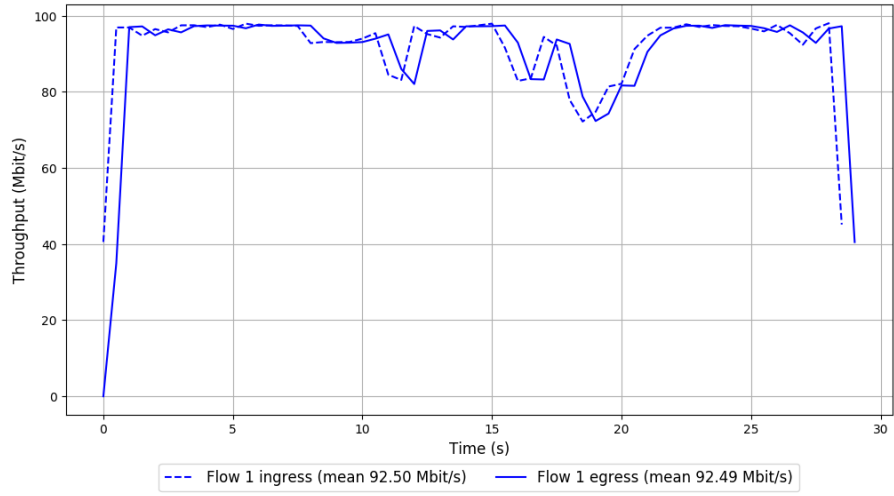


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-10-03 07:58:45
End at: 2019-10-03 07:59:15
Local clock offset: 10.017 ms
Remote clock offset: -1.453 ms

Below is generated by plot.py at 2019-10-03 09:40:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.49 Mbit/s
95th percentile per-packet one-way delay: 29.116 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 92.49 Mbit/s
95th percentile per-packet one-way delay: 29.116 ms
Loss rate: 0.19%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-10-03 08:29:05

End at: 2019-10-03 08:29:35

Local clock offset: 1.411 ms

Remote clock offset: 0.057 ms

Below is generated by plot.py at 2019-10-03 09:40:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.11 Mbit/s

95th percentile per-packet one-way delay: 22.833 ms

Loss rate: 0.18%

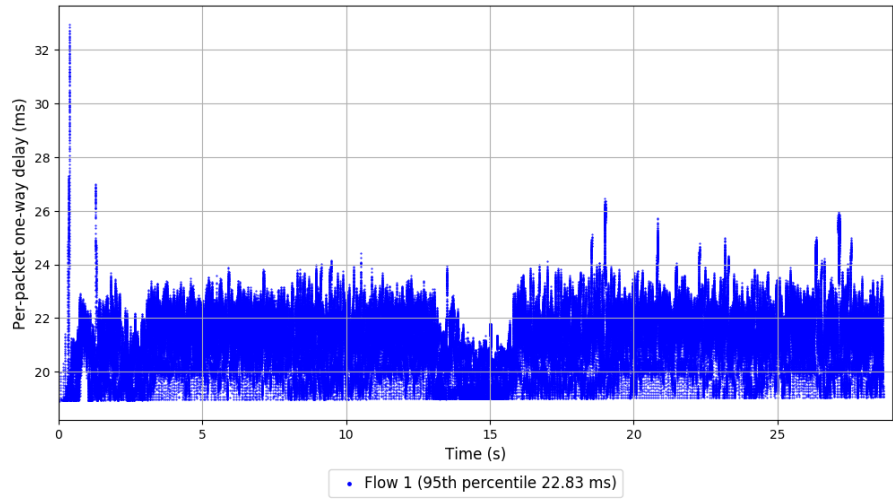
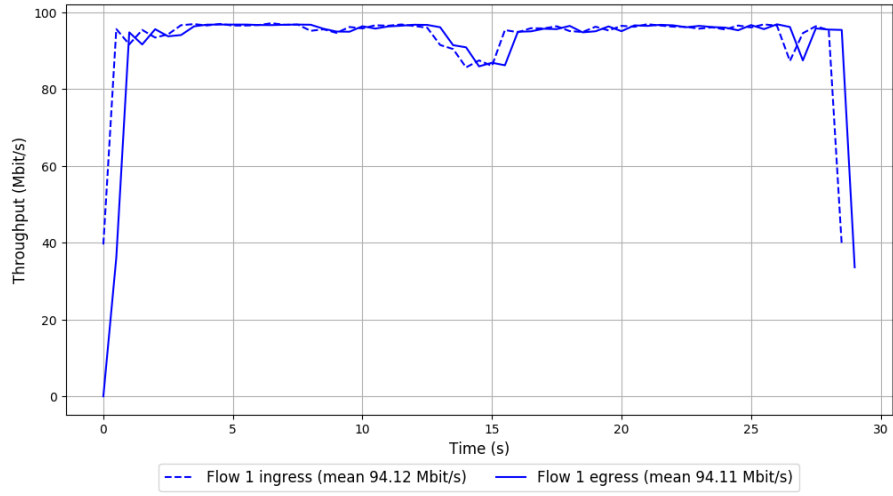
-- Flow 1:

Average throughput: 94.11 Mbit/s

95th percentile per-packet one-way delay: 22.833 ms

Loss rate: 0.18%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-10-03 08:58:57

End at: 2019-10-03 08:59:27

Local clock offset: 2.204 ms

Remote clock offset: 1.33 ms

Below is generated by plot.py at 2019-10-03 09:40:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.31 Mbit/s

95th percentile per-packet one-way delay: 21.101 ms

Loss rate: 0.16%

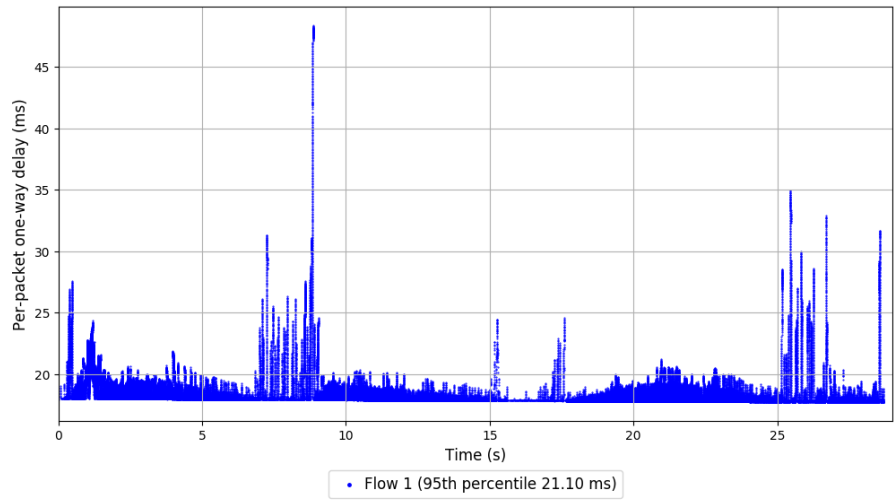
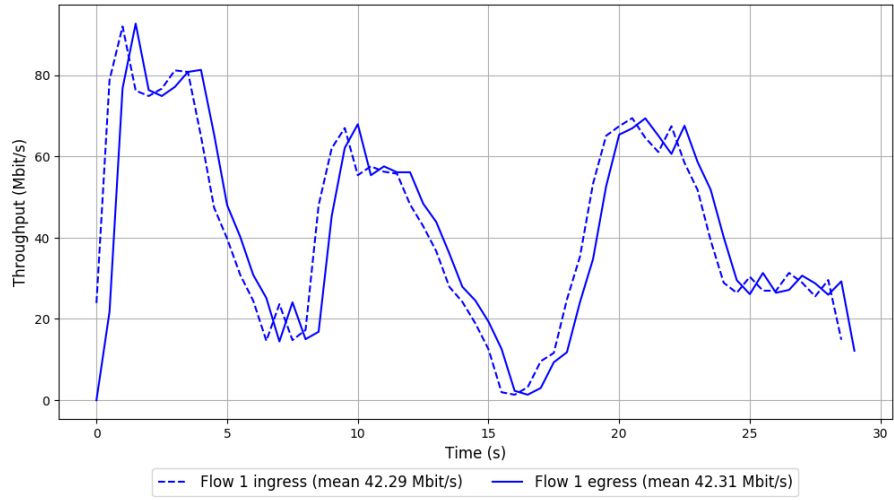
-- Flow 1:

Average throughput: 42.31 Mbit/s

95th percentile per-packet one-way delay: 21.101 ms

Loss rate: 0.16%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-10-03 09:28:25

End at: 2019-10-03 09:28:56

Local clock offset: 9.799 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2019-10-03 09:40:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.39 Mbit/s

95th percentile per-packet one-way delay: 26.760 ms

Loss rate: 0.19%

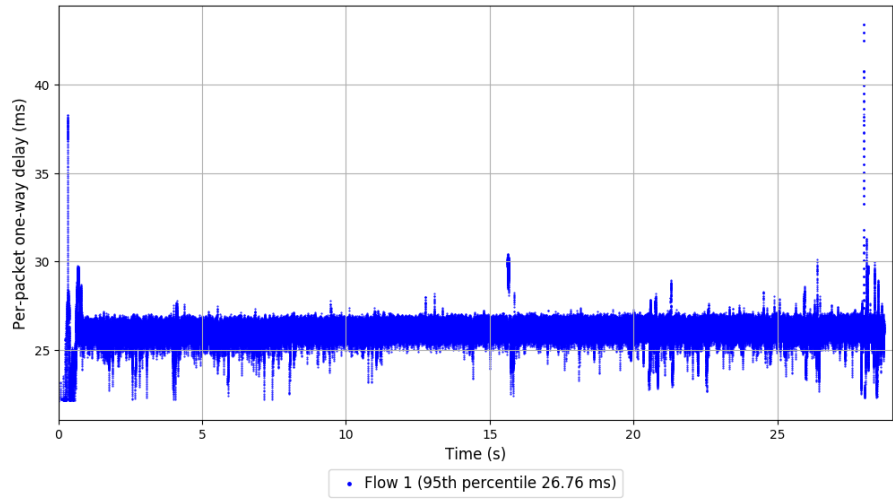
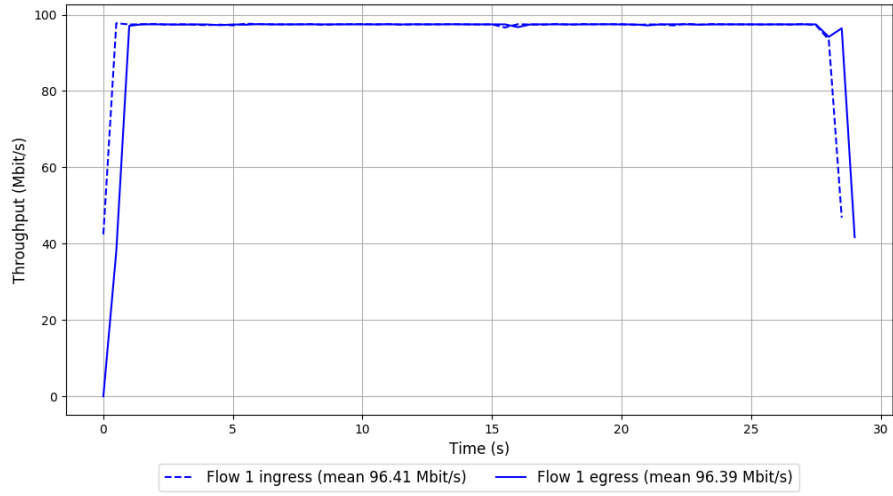
-- Flow 1:

Average throughput: 96.39 Mbit/s

95th percentile per-packet one-way delay: 26.760 ms

Loss rate: 0.19%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-10-03 07:13:06

End at: 2019-10-03 07:13:36

Local clock offset: 3.093 ms

Remote clock offset: -2.462 ms

Below is generated by plot.py at 2019-10-03 09:40:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.69 Mbit/s

95th percentile per-packet one-way delay: 27.185 ms

Loss rate: 0.33%

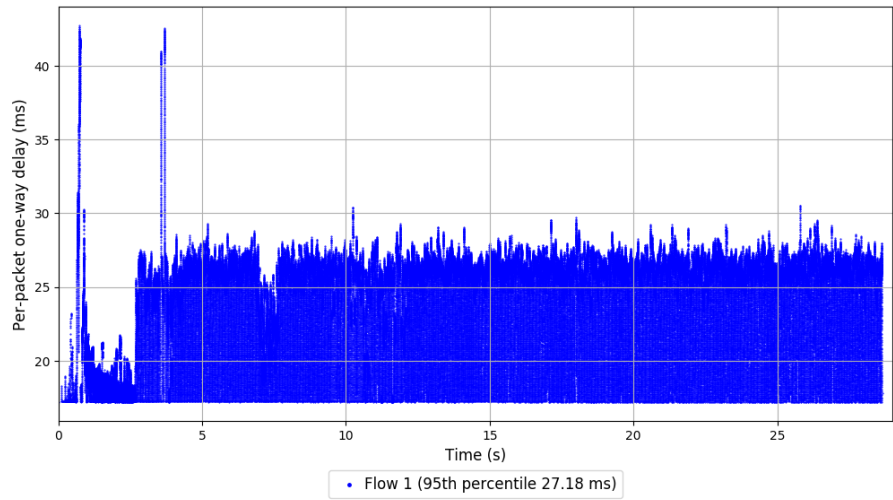
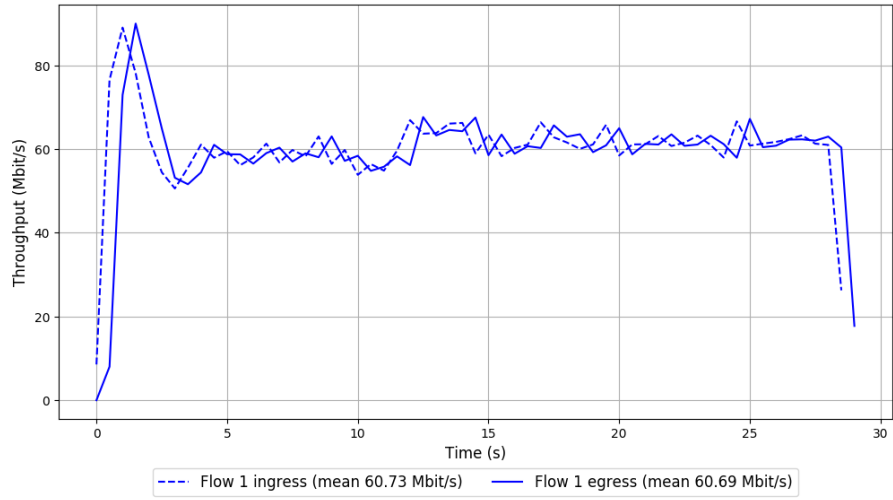
-- Flow 1:

Average throughput: 60.69 Mbit/s

95th percentile per-packet one-way delay: 27.185 ms

Loss rate: 0.33%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-10-03 07:47:34

End at: 2019-10-03 07:48:04

Local clock offset: 5.822 ms

Remote clock offset: -0.584 ms

Below is generated by plot.py at 2019-10-03 09:41:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.28 Mbit/s

95th percentile per-packet one-way delay: 18.239 ms

Loss rate: 0.17%

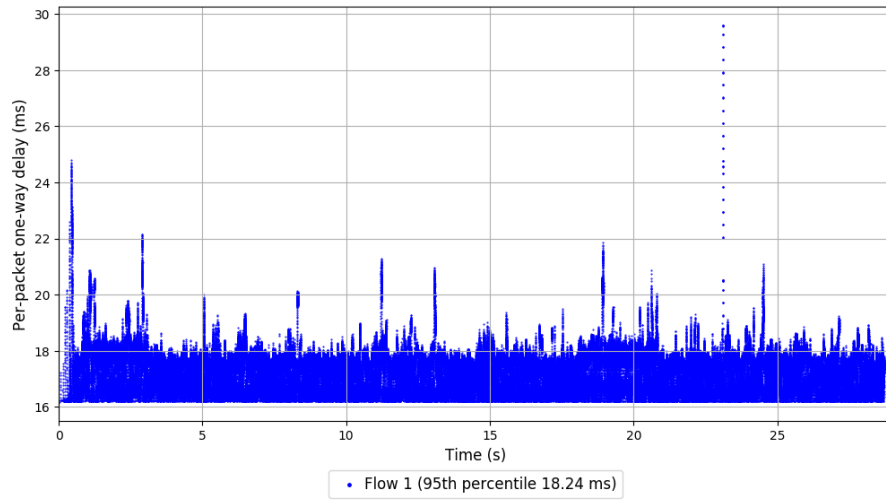
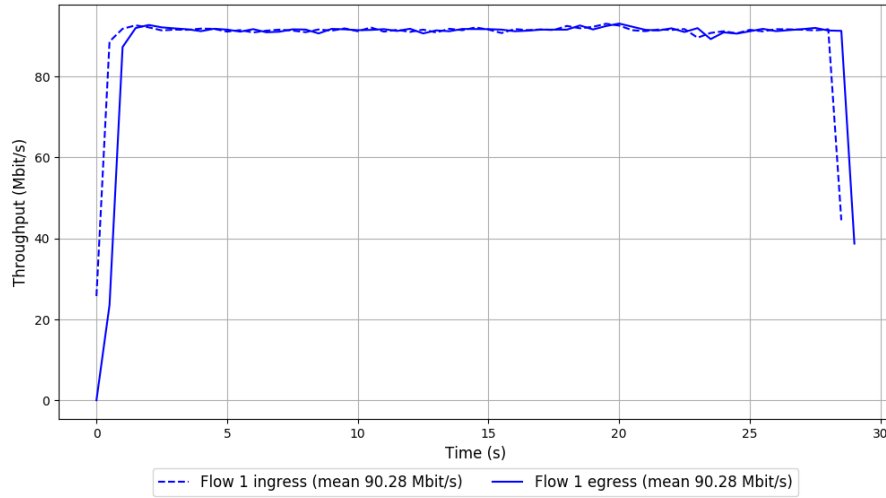
-- Flow 1:

Average throughput: 90.28 Mbit/s

95th percentile per-packet one-way delay: 18.239 ms

Loss rate: 0.17%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-10-03 08:20:04

End at: 2019-10-03 08:20:34

Local clock offset: 2.929 ms

Remote clock offset: 1.058 ms

Below is generated by plot.py at 2019-10-03 09:41:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.66 Mbit/s

95th percentile per-packet one-way delay: 27.953 ms

Loss rate: 0.25%

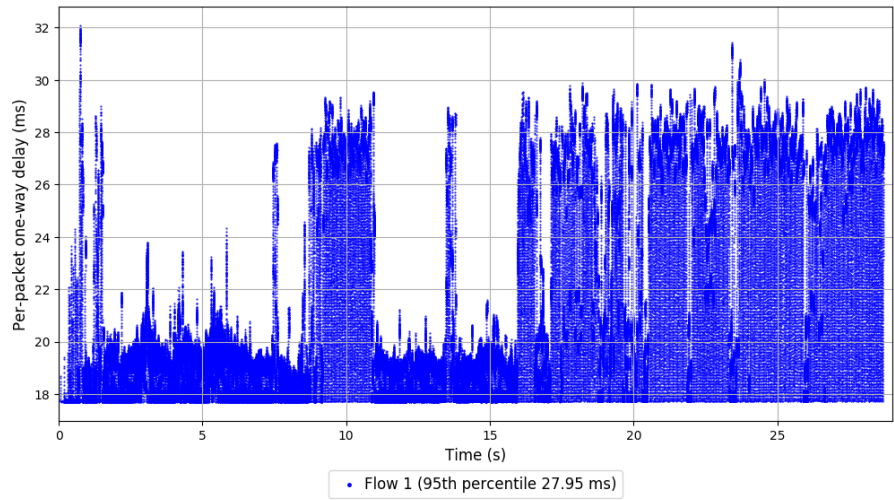
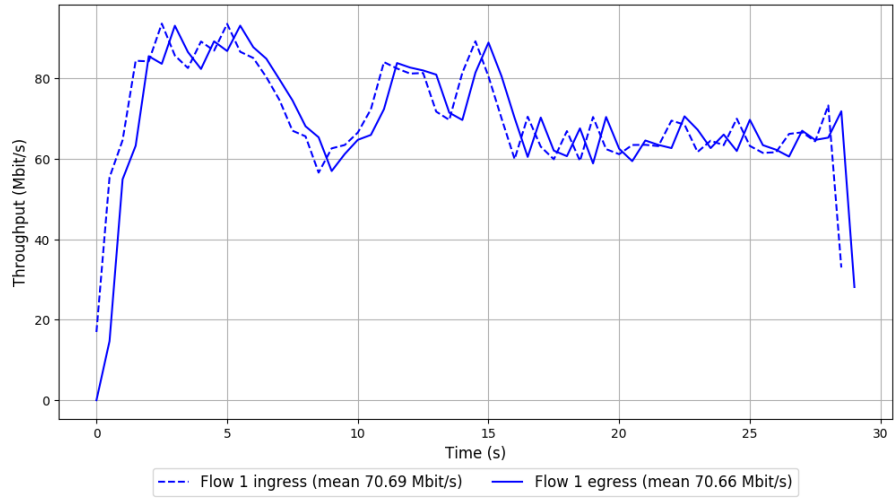
-- Flow 1:

Average throughput: 70.66 Mbit/s

95th percentile per-packet one-way delay: 27.953 ms

Loss rate: 0.25%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-10-03 08:50:22

End at: 2019-10-03 08:50:52

Local clock offset: -1.405 ms

Remote clock offset: 0.82 ms

Below is generated by plot.py at 2019-10-03 09:41:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.22 Mbit/s

95th percentile per-packet one-way delay: 29.192 ms

Loss rate: 0.21%

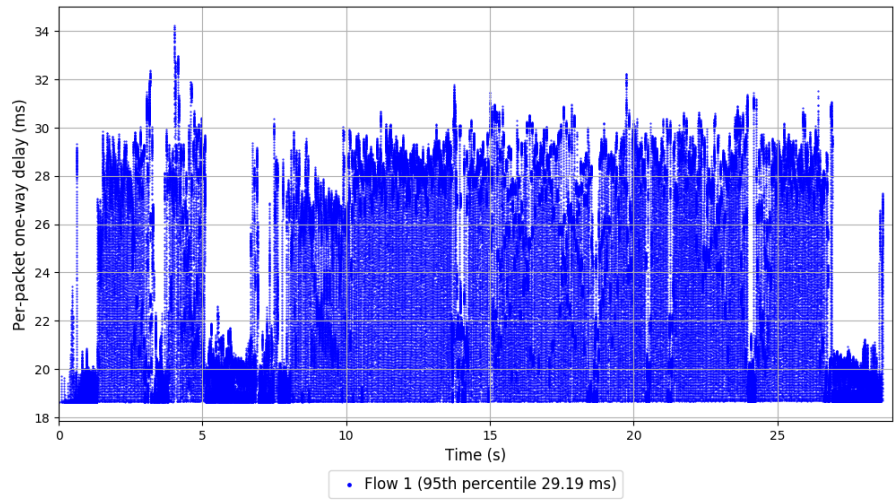
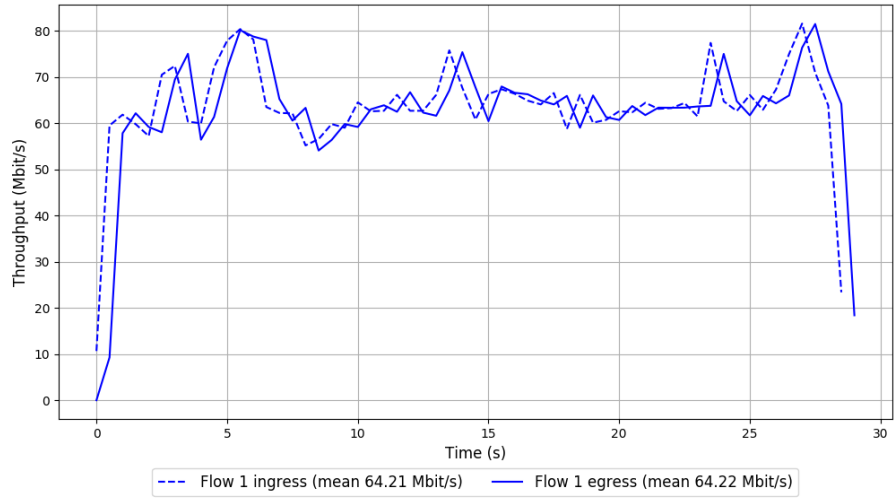
-- Flow 1:

Average throughput: 64.22 Mbit/s

95th percentile per-packet one-way delay: 29.192 ms

Loss rate: 0.21%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-10-03 09:19:29

End at: 2019-10-03 09:19:59

Local clock offset: 10.53 ms

Remote clock offset: 1.34 ms

Below is generated by plot.py at 2019-10-03 09:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.25 Mbit/s

95th percentile per-packet one-way delay: 23.242 ms

Loss rate: 0.18%

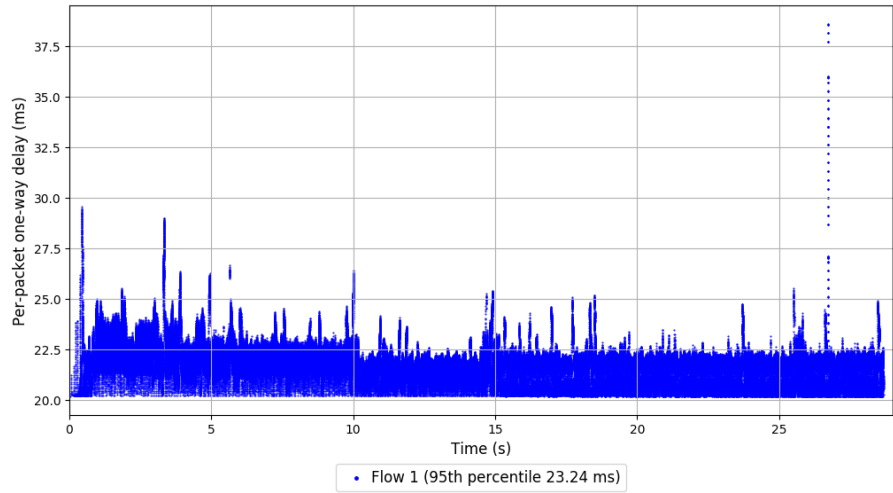
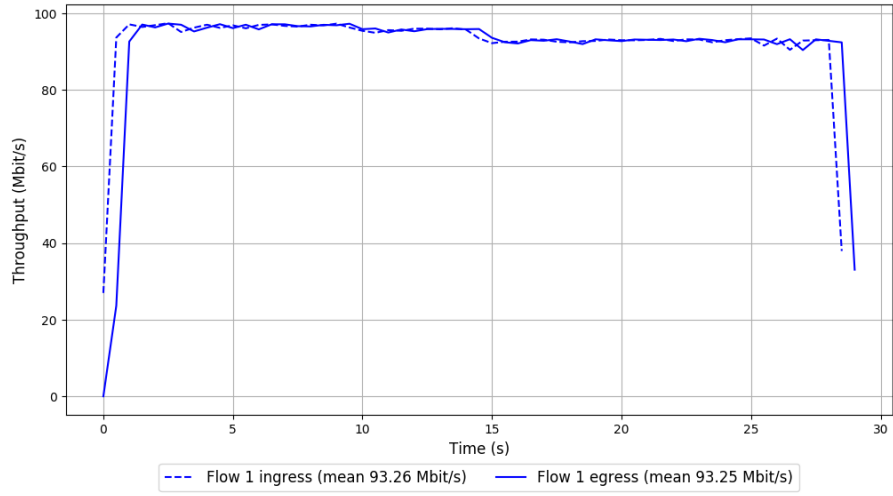
-- Flow 1:

Average throughput: 93.25 Mbit/s

95th percentile per-packet one-way delay: 23.242 ms

Loss rate: 0.18%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-10-03 07:24:20

End at: 2019-10-03 07:24:50

Local clock offset: 5.962 ms

Remote clock offset: -0.602 ms

Below is generated by plot.py at 2019-10-03 09:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.72 Mbit/s

95th percentile per-packet one-way delay: 18.824 ms

Loss rate: 0.07%

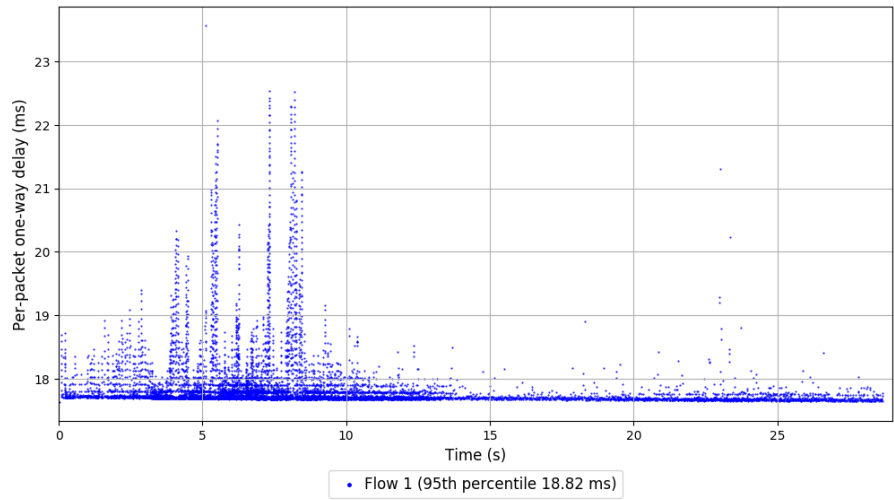
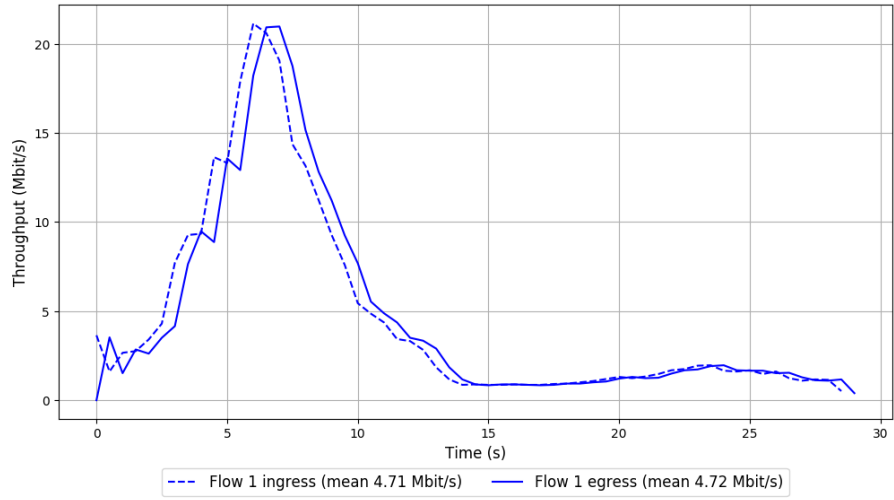
-- Flow 1:

Average throughput: 4.72 Mbit/s

95th percentile per-packet one-way delay: 18.824 ms

Loss rate: 0.07%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-10-03 08:00:18

End at: 2019-10-03 08:00:48

Local clock offset: 4.374 ms

Remote clock offset: -0.327 ms

Below is generated by plot.py at 2019-10-03 09:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.69 Mbit/s

95th percentile per-packet one-way delay: 19.965 ms

Loss rate: 0.05%

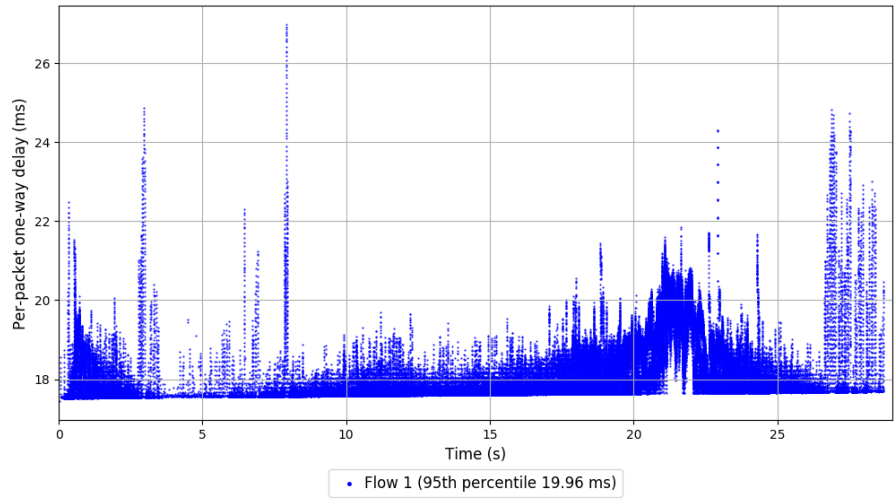
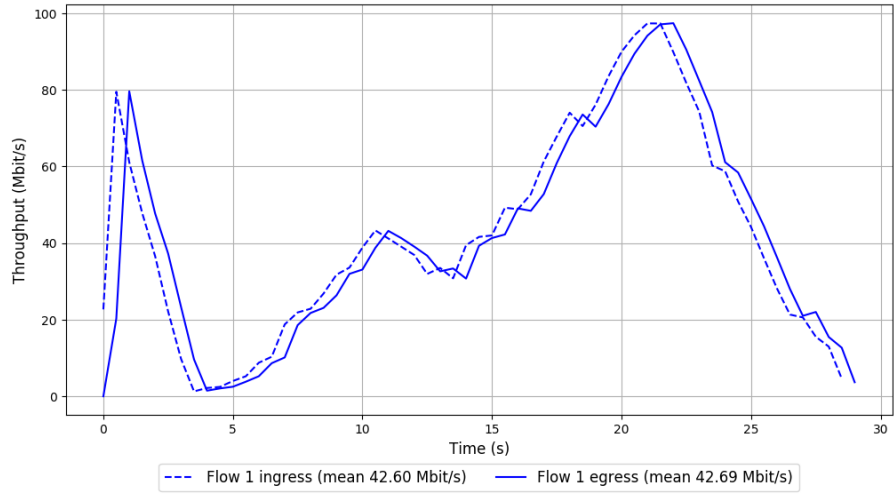
-- Flow 1:

Average throughput: 42.69 Mbit/s

95th percentile per-packet one-way delay: 19.965 ms

Loss rate: 0.05%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-10-03 08:30:20

End at: 2019-10-03 08:30:50

Local clock offset: 3.918 ms

Remote clock offset: -1.567 ms

Below is generated by plot.py at 2019-10-03 09:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.79 Mbit/s

95th percentile per-packet one-way delay: 27.537 ms

Loss rate: 0.27%

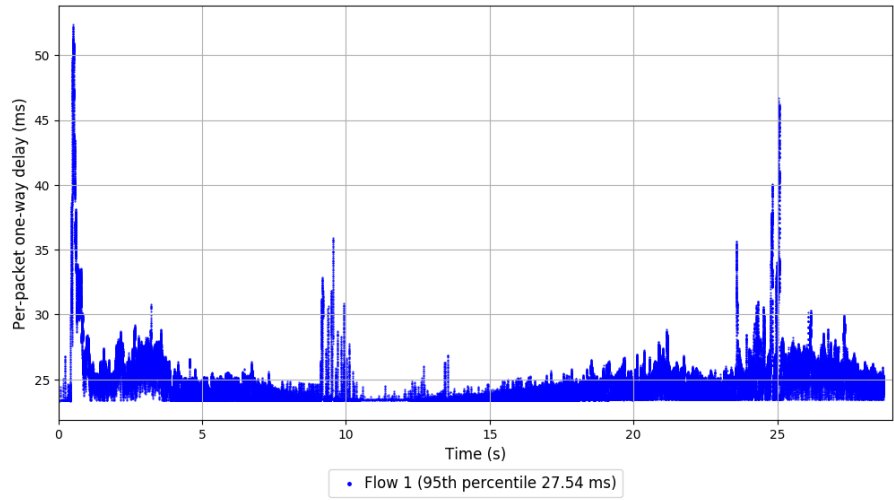
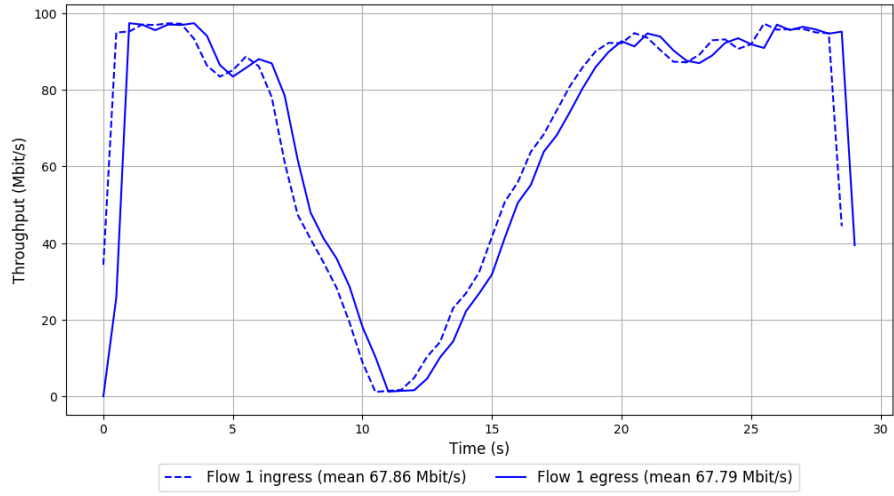
-- Flow 1:

Average throughput: 67.79 Mbit/s

95th percentile per-packet one-way delay: 27.537 ms

Loss rate: 0.27%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-10-03 09:00:07

End at: 2019-10-03 09:00:37

Local clock offset: 0.808 ms

Remote clock offset: -1.514 ms

Below is generated by plot.py at 2019-10-03 09:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.58 Mbit/s

95th percentile per-packet one-way delay: 23.201 ms

Loss rate: 0.02%

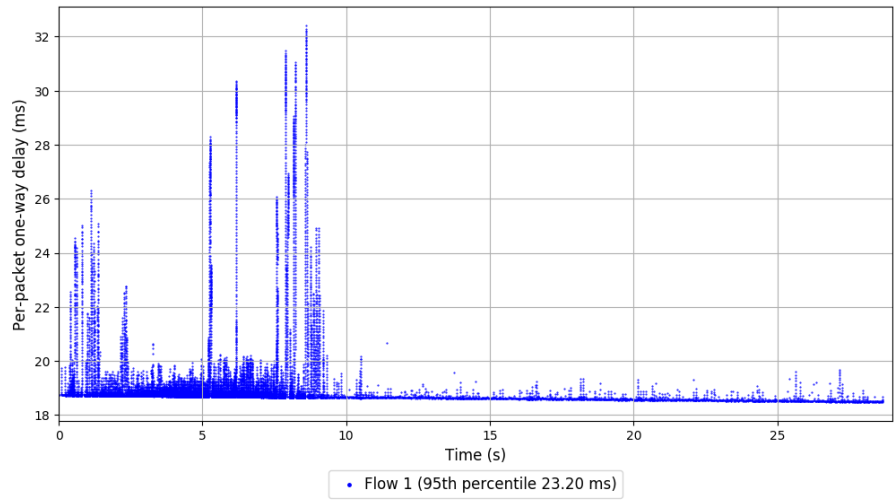
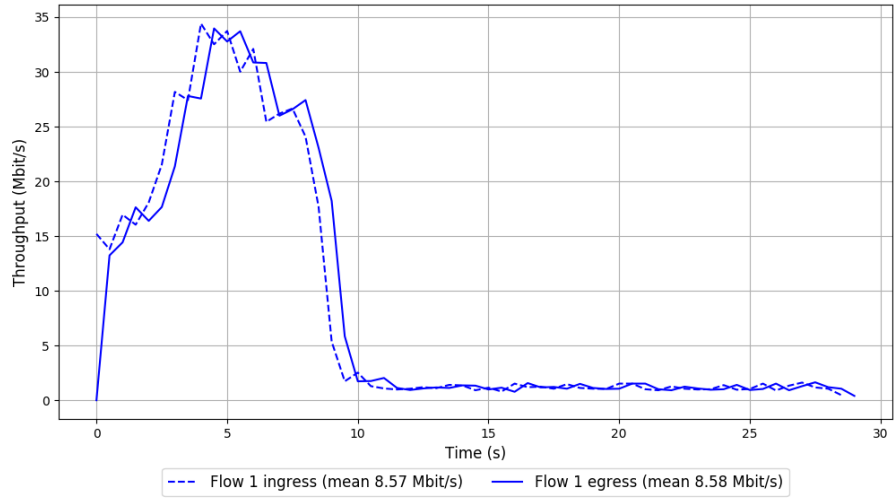
-- Flow 1:

Average throughput: 8.58 Mbit/s

95th percentile per-packet one-way delay: 23.201 ms

Loss rate: 0.02%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-10-03 09:29:42

End at: 2019-10-03 09:30:12

Local clock offset: 9.035 ms

Remote clock offset: -0.087 ms

Below is generated by plot.py at 2019-10-03 09:41:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.12 Mbit/s

95th percentile per-packet one-way delay: 25.851 ms

Loss rate: 0.20%

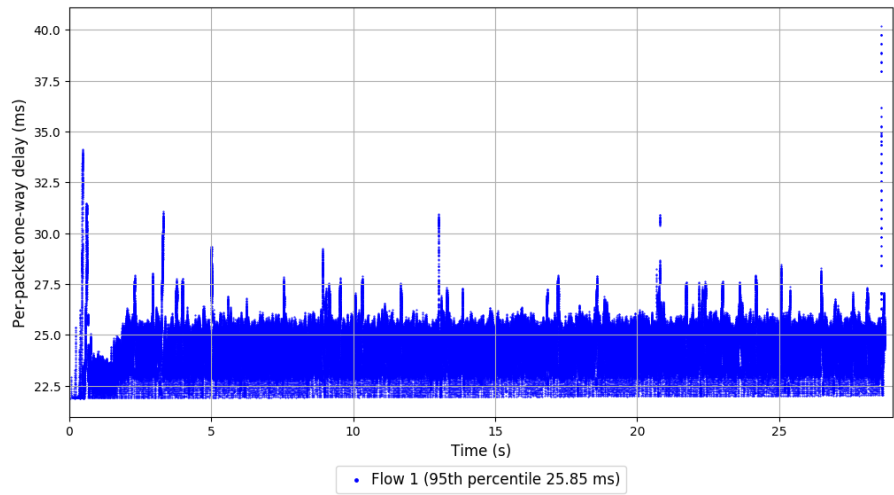
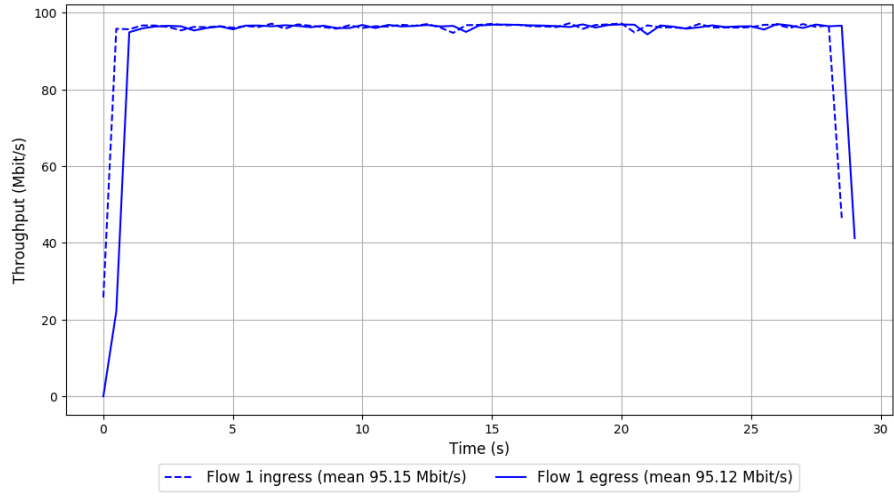
-- Flow 1:

Average throughput: 95.12 Mbit/s

95th percentile per-packet one-way delay: 25.851 ms

Loss rate: 0.20%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MuseST

Start at: 2019-10-03 06:57:09

End at: 2019-10-03 06:57:39

Local clock offset: 2.755 ms

Remote clock offset: -3.068 ms

Below is generated by plot.py at 2019-10-03 09:42:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.74 Mbit/s

95th percentile per-packet one-way delay: 41.592 ms

Loss rate: 0.62%

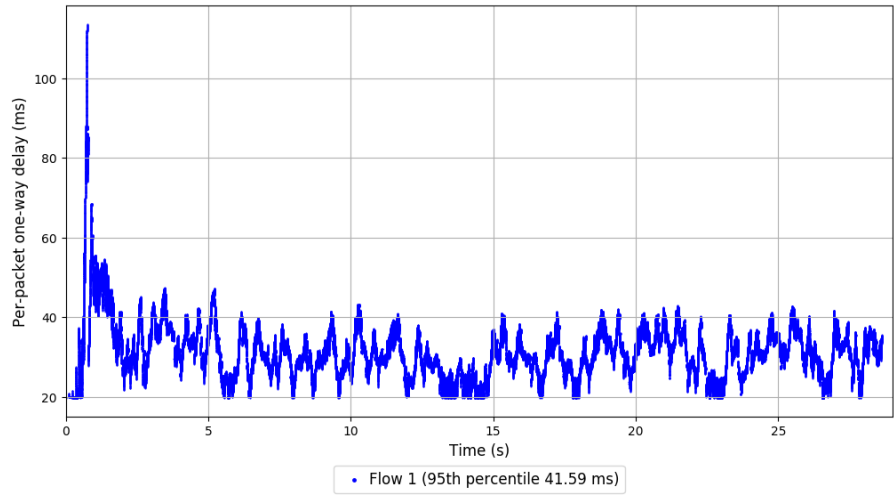
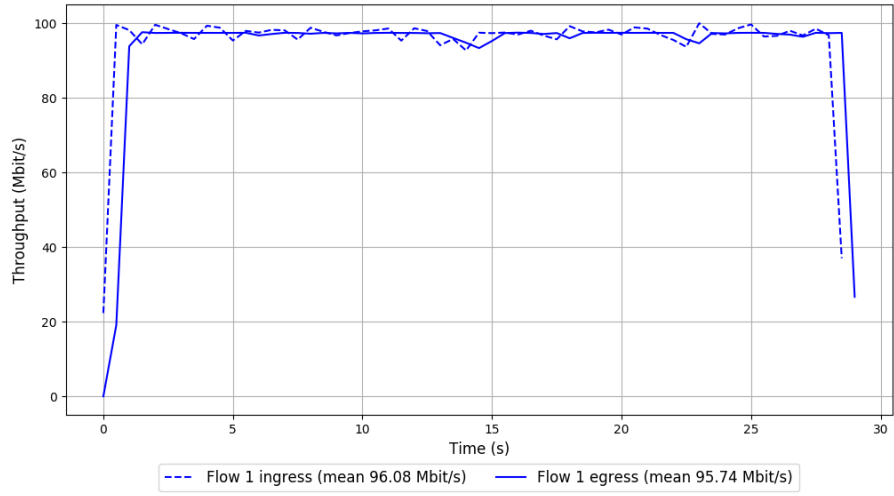
-- Flow 1:

Average throughput: 95.74 Mbit/s

95th percentile per-packet one-way delay: 41.592 ms

Loss rate: 0.62%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-10-03 07:31:14

End at: 2019-10-03 07:31:45

Local clock offset: 6.621 ms

Remote clock offset: -2.692 ms

Below is generated by plot.py at 2019-10-03 09:42:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.44 Mbit/s

95th percentile per-packet one-way delay: 24.015 ms

Loss rate: 0.19%

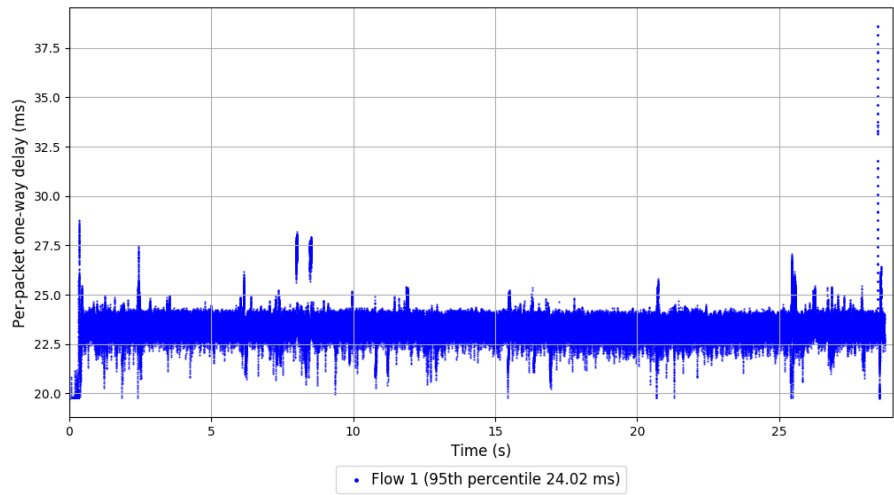
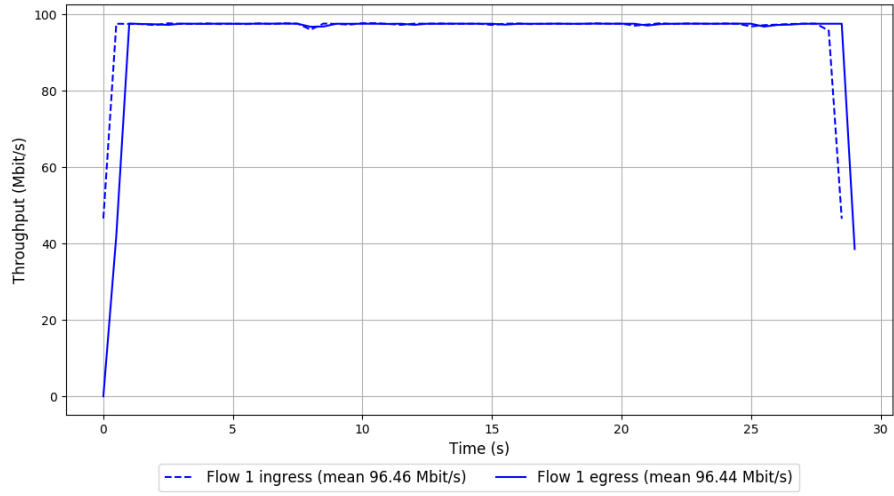
-- Flow 1:

Average throughput: 96.44 Mbit/s

95th percentile per-packet one-way delay: 24.015 ms

Loss rate: 0.19%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-10-03 08:06:21

End at: 2019-10-03 08:06:51

Local clock offset: 2.778 ms

Remote clock offset: -1.392 ms

Below is generated by plot.py at 2019-10-03 09:42:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.72 Mbit/s

95th percentile per-packet one-way delay: 33.144 ms

Loss rate: 0.37%

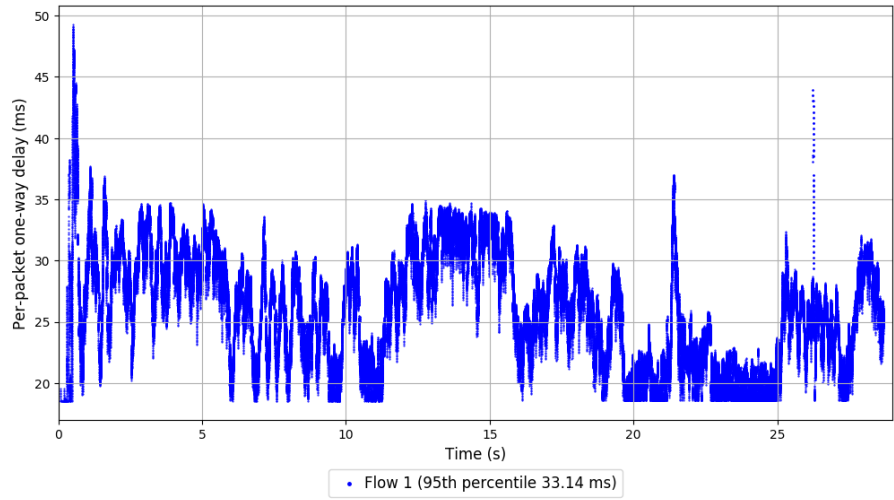
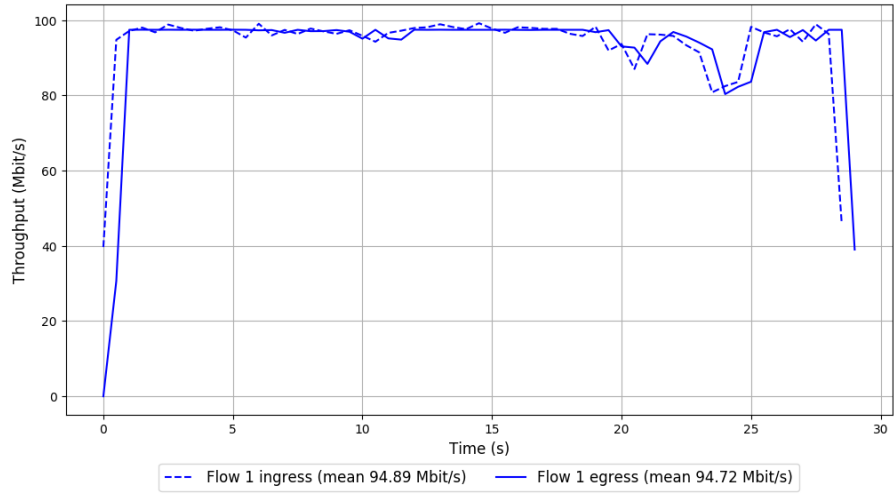
-- Flow 1:

Average throughput: 94.72 Mbit/s

95th percentile per-packet one-way delay: 33.144 ms

Loss rate: 0.37%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MuseST

Start at: 2019-10-03 08:36:23

End at: 2019-10-03 08:36:53

Local clock offset: 2.806 ms

Remote clock offset: -1.739 ms

Below is generated by plot.py at 2019-10-03 09:42:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.87 Mbit/s

95th percentile per-packet one-way delay: 31.991 ms

Loss rate: 0.30%

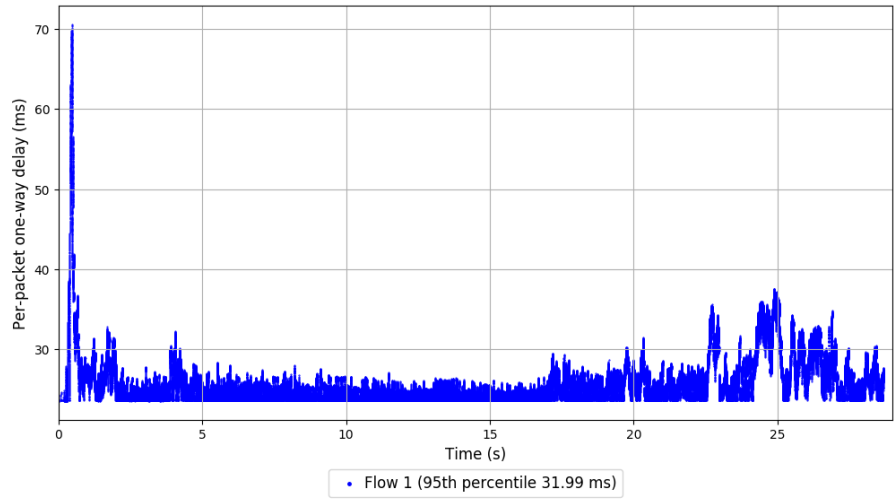
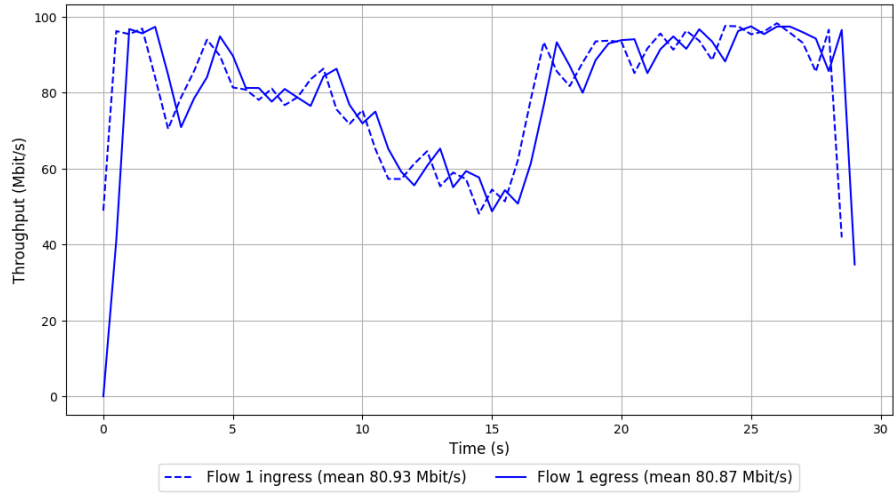
-- Flow 1:

Average throughput: 80.87 Mbit/s

95th percentile per-packet one-way delay: 31.991 ms

Loss rate: 0.30%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MuseST

Start at: 2019-10-03 09:05:59

End at: 2019-10-03 09:06:29

Local clock offset: 2.973 ms

Remote clock offset: 1.218 ms

Below is generated by plot.py at 2019-10-03 09:42:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.44 Mbit/s

95th percentile per-packet one-way delay: 22.698 ms

Loss rate: 0.20%

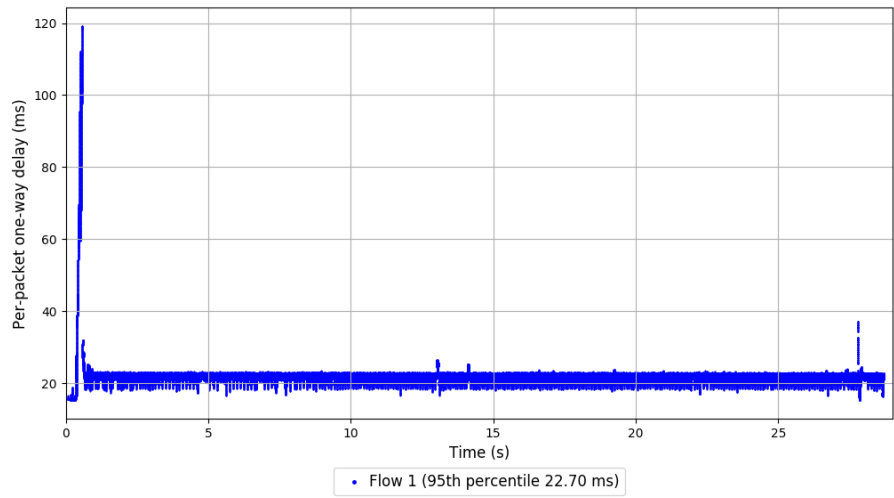
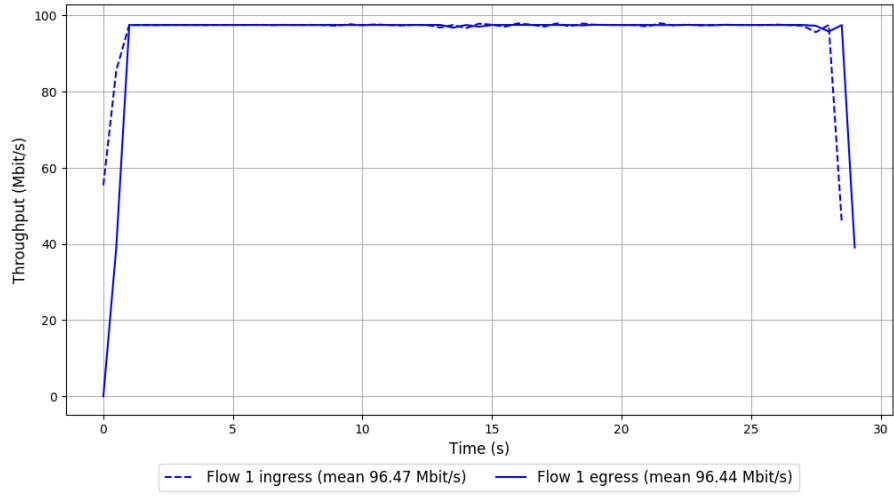
-- Flow 1:

Average throughput: 96.44 Mbit/s

95th percentile per-packet one-way delay: 22.698 ms

Loss rate: 0.20%

Run 5: Report of Indigo-MusesT — Data Link

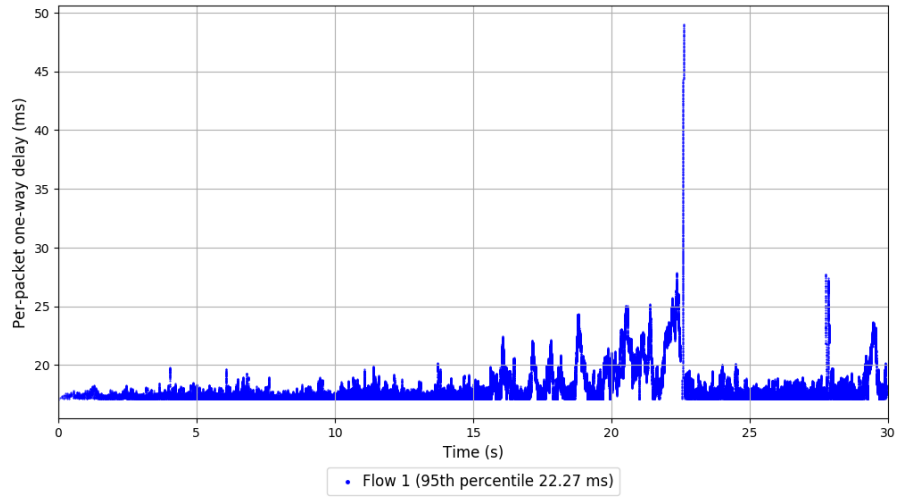
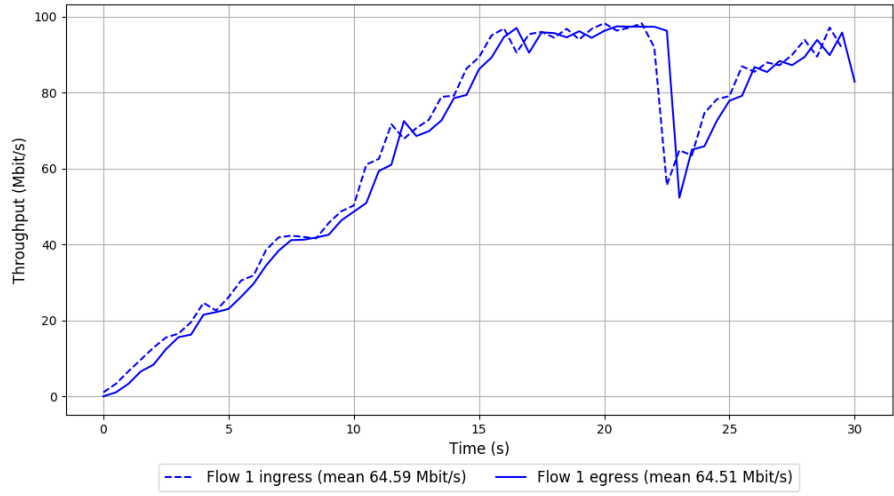


Run 1: Statistics of LEDBAT

Start at: 2019-10-03 07:19:55
End at: 2019-10-03 07:20:25
Local clock offset: 3.742 ms
Remote clock offset: -2.138 ms

Below is generated by plot.py at 2019-10-03 09:42:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 64.51 Mbit/s
95th percentile per-packet one-way delay: 22.267 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 64.51 Mbit/s
95th percentile per-packet one-way delay: 22.267 ms
Loss rate: 0.34%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-10-03 07:55:35

End at: 2019-10-03 07:56:05

Local clock offset: 6.287 ms

Remote clock offset: 0.572 ms

Below is generated by plot.py at 2019-10-03 09:42:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.65 Mbit/s

95th percentile per-packet one-way delay: 22.786 ms

Loss rate: 0.25%

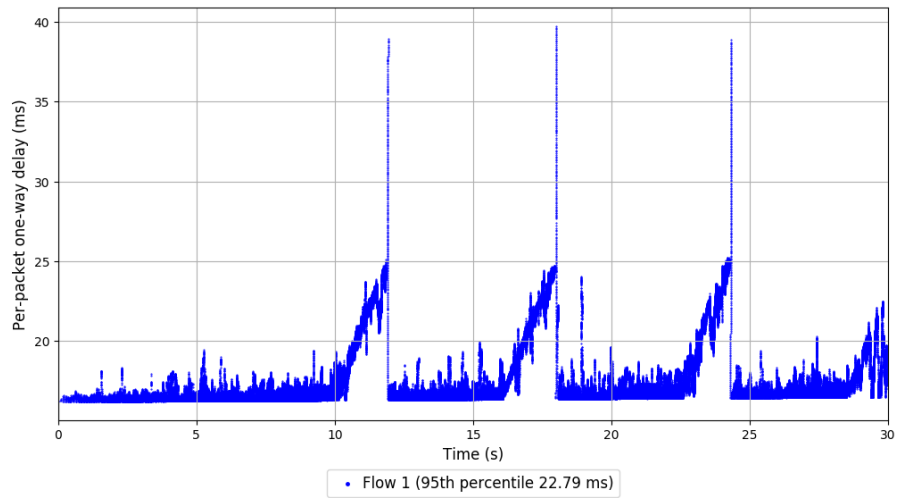
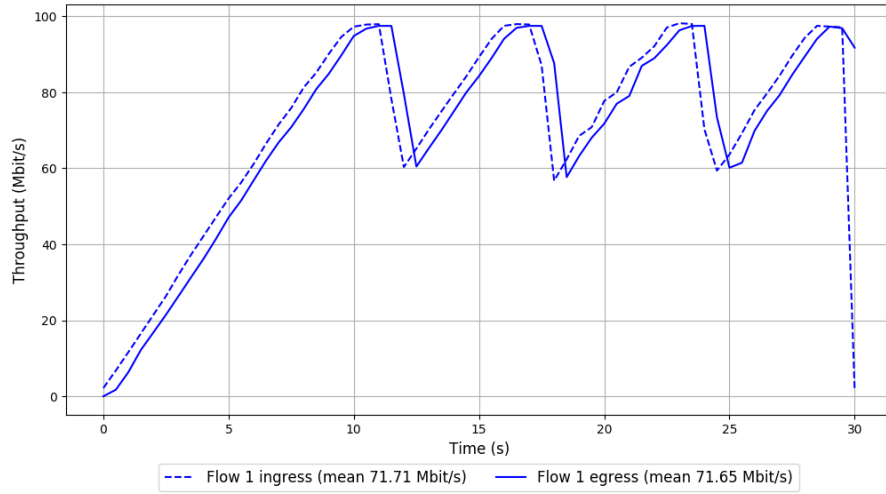
-- Flow 1:

Average throughput: 71.65 Mbit/s

95th percentile per-packet one-way delay: 22.786 ms

Loss rate: 0.25%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-10-03 08:26:29

End at: 2019-10-03 08:26:59

Local clock offset: 1.768 ms

Remote clock offset: 1.009 ms

Below is generated by plot.py at 2019-10-03 09:42:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.92 Mbit/s

95th percentile per-packet one-way delay: 24.595 ms

Loss rate: 0.13%

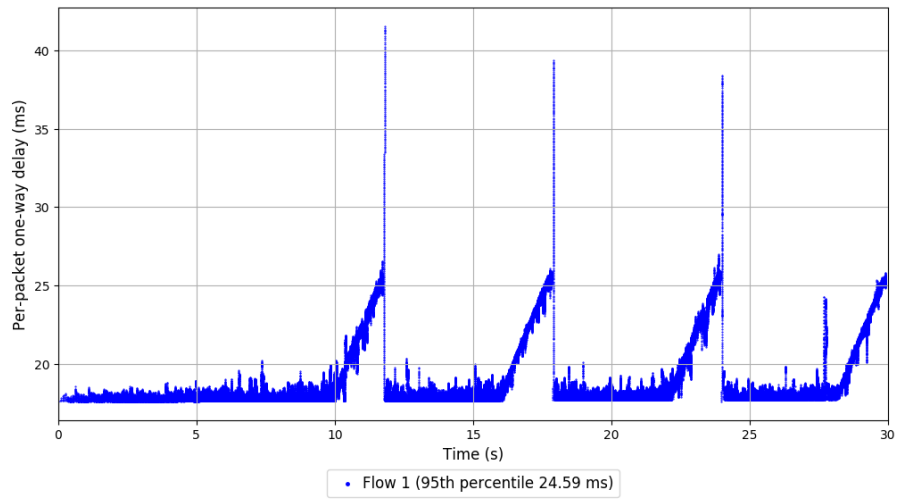
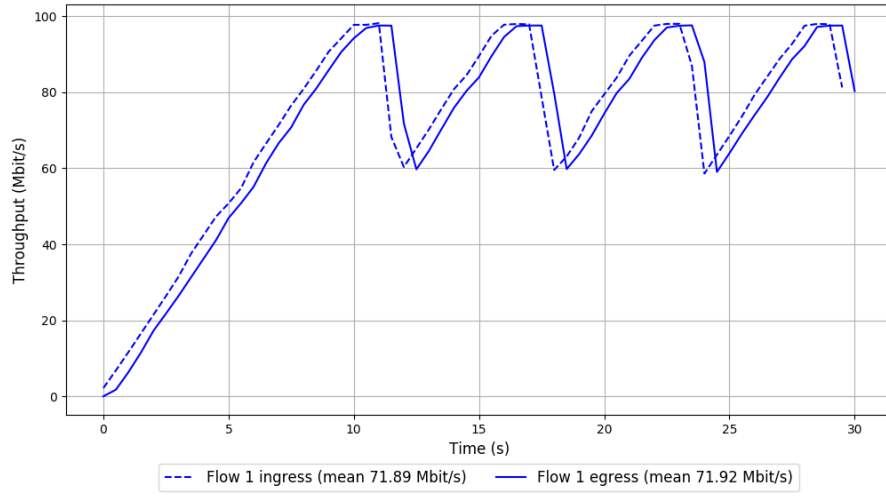
-- Flow 1:

Average throughput: 71.92 Mbit/s

95th percentile per-packet one-way delay: 24.595 ms

Loss rate: 0.13%

Run 3: Report of LEDBAT — Data Link

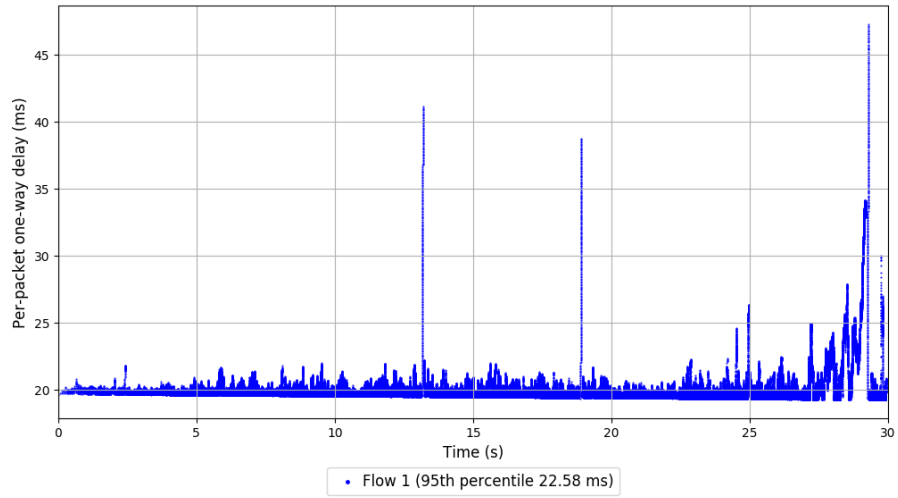
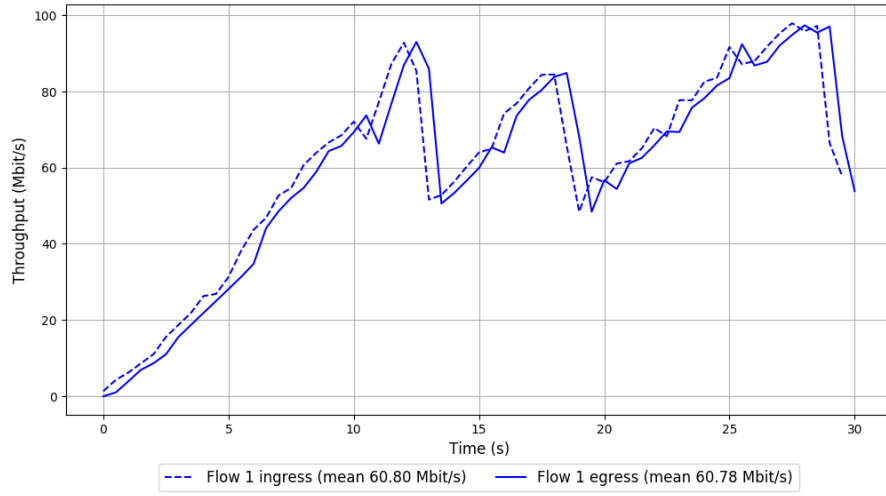


Run 4: Statistics of LEDBAT

Start at: 2019-10-03 08:56:25
End at: 2019-10-03 08:56:55
Local clock offset: -0.34 ms
Remote clock offset: -0.903 ms

Below is generated by plot.py at 2019-10-03 09:42:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 60.78 Mbit/s
95th percentile per-packet one-way delay: 22.576 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 60.78 Mbit/s
95th percentile per-packet one-way delay: 22.576 ms
Loss rate: 0.20%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-10-03 09:25:55

End at: 2019-10-03 09:26:25

Local clock offset: 5.773 ms

Remote clock offset: 0.809 ms

Below is generated by plot.py at 2019-10-03 09:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.64 Mbit/s

95th percentile per-packet one-way delay: 23.323 ms

Loss rate: 0.14%

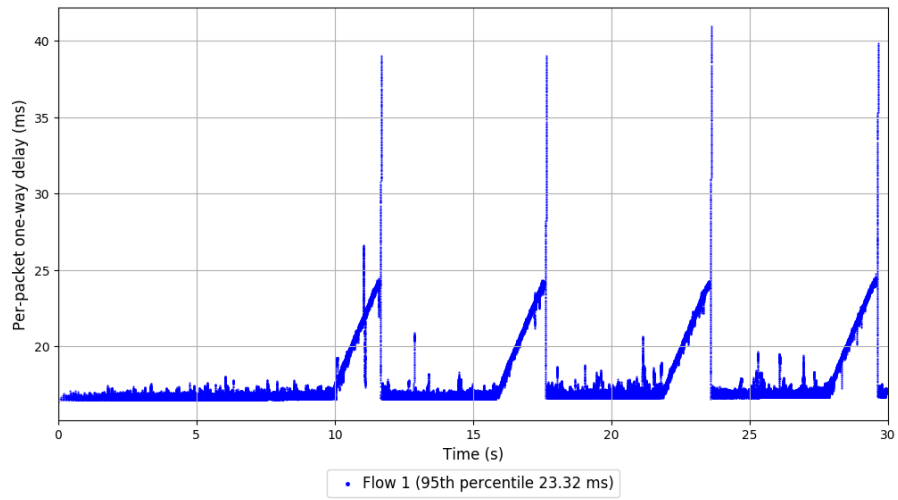
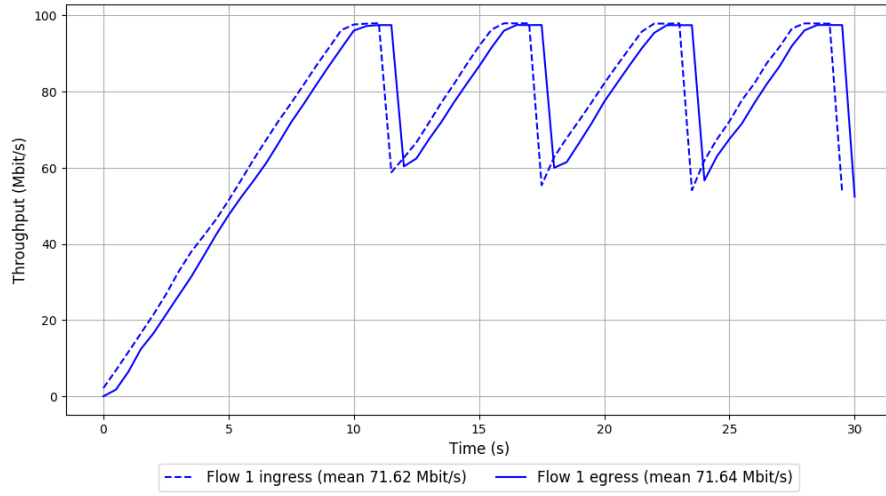
-- Flow 1:

Average throughput: 71.64 Mbit/s

95th percentile per-packet one-way delay: 23.323 ms

Loss rate: 0.14%

Run 5: Report of LEDBAT — Data Link

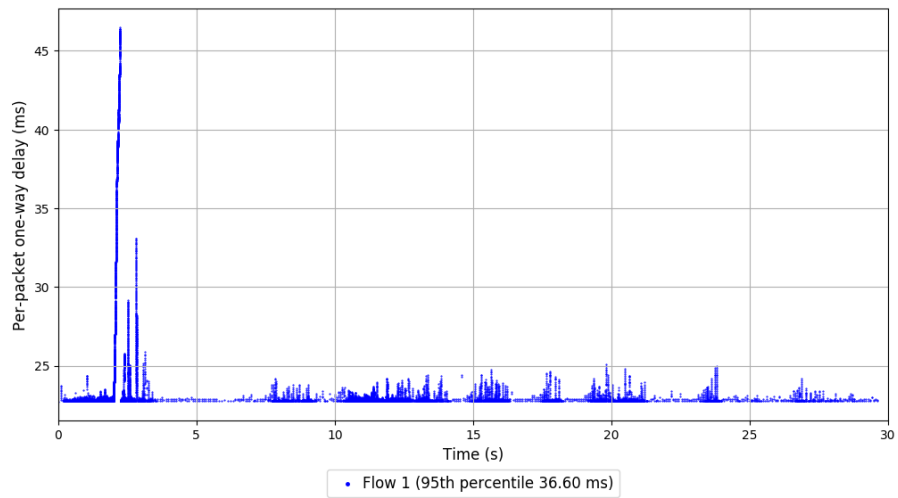
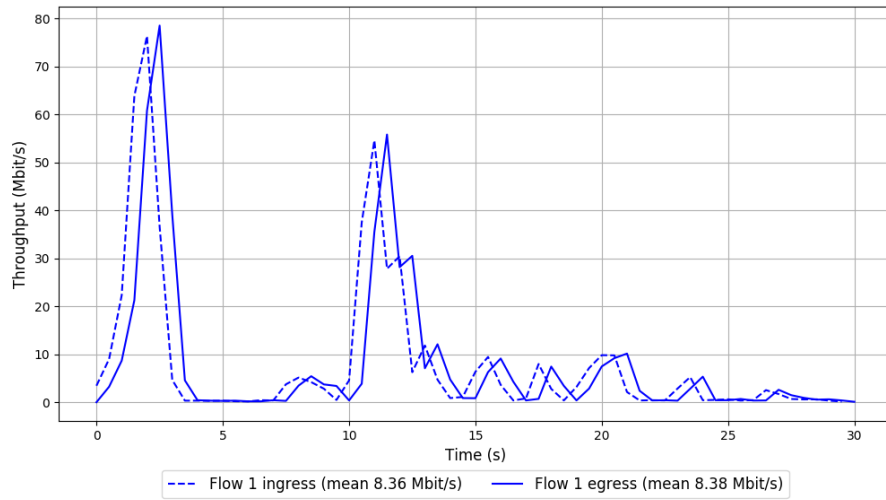


Run 1: Statistics of Muses_DecisionTree

Start at: 2019-10-03 07:14:43
End at: 2019-10-03 07:15:13
Local clock offset: 8.934 ms
Remote clock offset: -2.279 ms

Below is generated by plot.py at 2019-10-03 09:42:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 8.38 Mbit/s
95th percentile per-packet one-way delay: 36.603 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 8.38 Mbit/s
95th percentile per-packet one-way delay: 36.603 ms
Loss rate: 0.01%

Run 1: Report of Muses_DecisionTree — Data Link

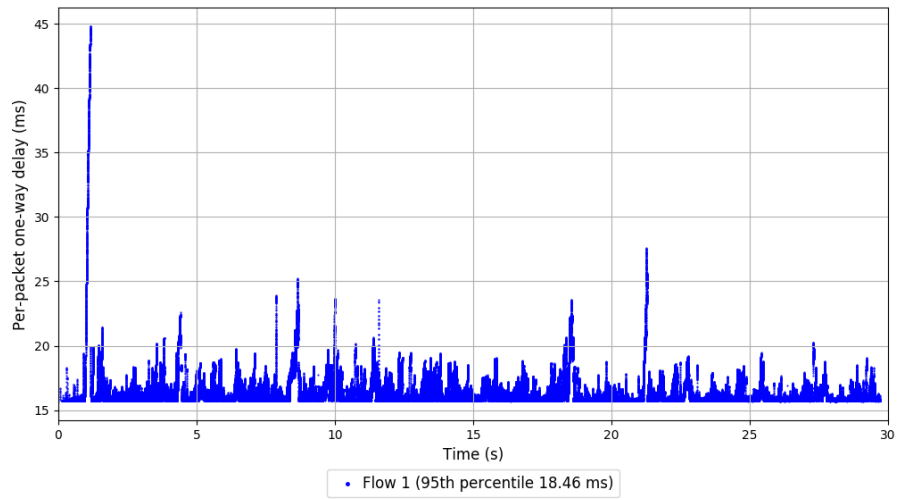
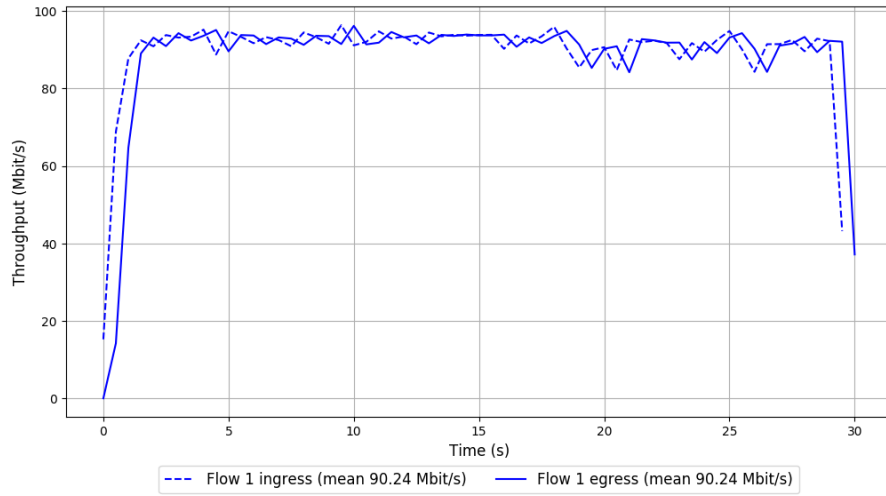


Run 2: Statistics of Muses_DecisionTree

Start at: 2019-10-03 07:49:04
End at: 2019-10-03 07:49:34
Local clock offset: 4.263 ms
Remote clock offset: -1.691 ms

Below is generated by plot.py at 2019-10-03 09:43:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.24 Mbit/s
95th percentile per-packet one-way delay: 18.464 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 90.24 Mbit/s
95th percentile per-packet one-way delay: 18.464 ms
Loss rate: 0.17%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

Start at: 2019-10-03 08:21:18

End at: 2019-10-03 08:21:48

Local clock offset: 1.538 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2019-10-03 09:43:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.51 Mbit/s

95th percentile per-packet one-way delay: 19.059 ms

Loss rate: 0.21%

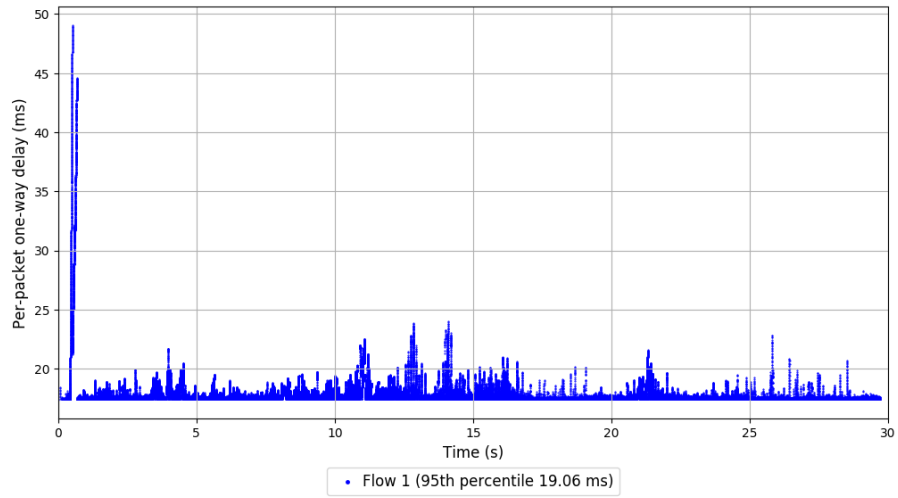
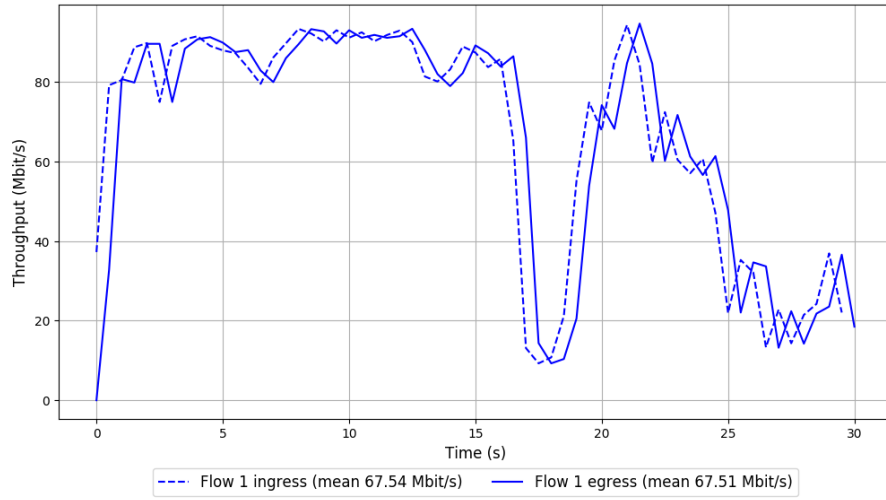
-- Flow 1:

Average throughput: 67.51 Mbit/s

95th percentile per-packet one-way delay: 19.059 ms

Loss rate: 0.21%

Run 3: Report of Muses_DecisionTree — Data Link

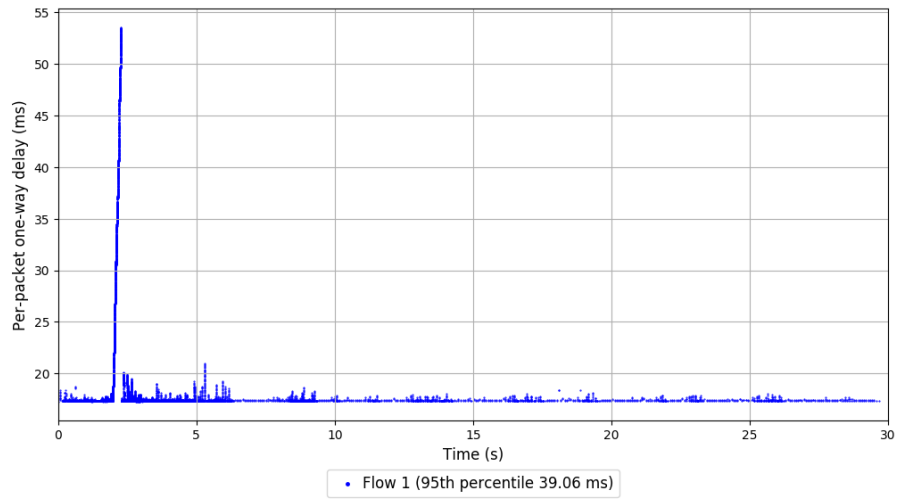
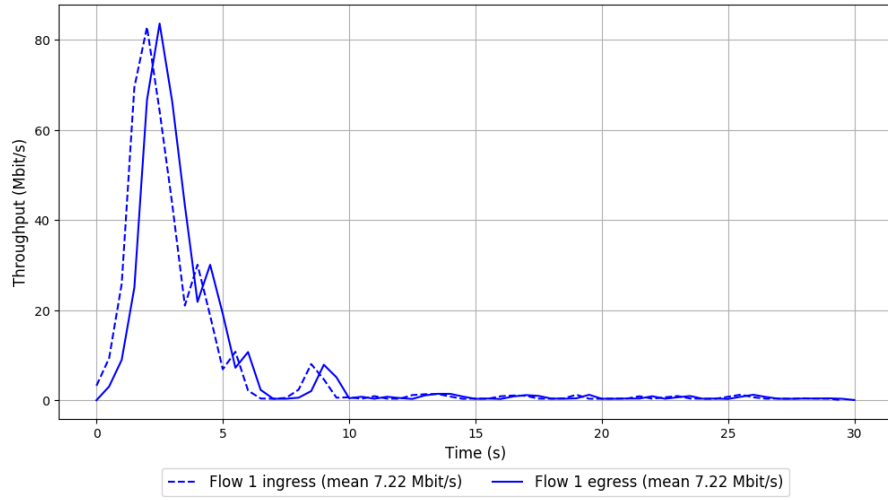


Run 4: Statistics of Muses_DecisionTree

Start at: 2019-10-03 08:51:38
End at: 2019-10-03 08:52:08
Local clock offset: -4.117 ms
Remote clock offset: -0.467 ms

Below is generated by plot.py at 2019-10-03 09:43:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.22 Mbit/s
95th percentile per-packet one-way delay: 39.064 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 7.22 Mbit/s
95th percentile per-packet one-way delay: 39.064 ms
Loss rate: 0.01%

Run 4: Report of Muses_DecisionTree — Data Link

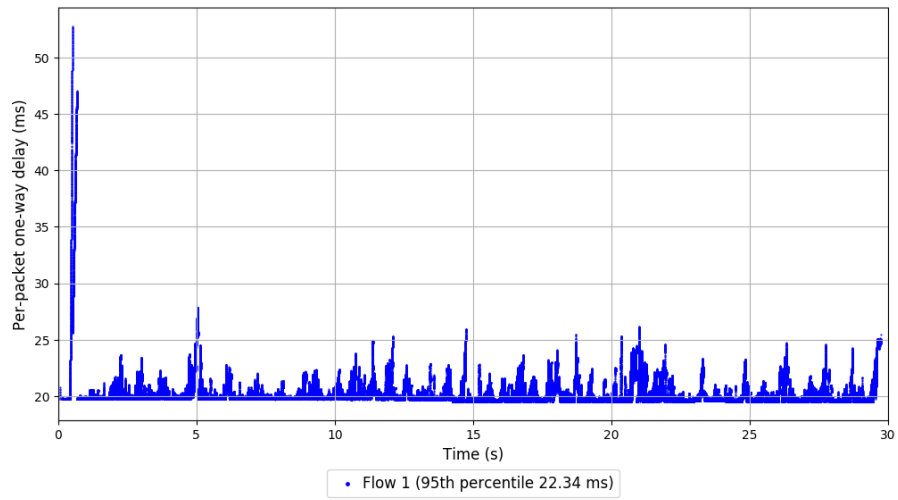
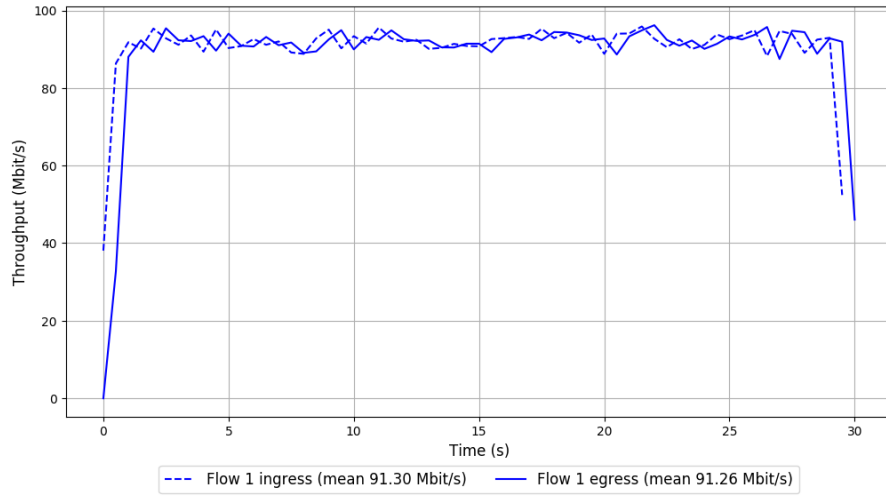


Run 5: Statistics of Muses_DecisionTree

Start at: 2019-10-03 09:20:48
End at: 2019-10-03 09:21:18
Local clock offset: 7.199 ms
Remote clock offset: -1.416 ms

Below is generated by plot.py at 2019-10-03 09:43:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.26 Mbit/s
95th percentile per-packet one-way delay: 22.337 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 91.26 Mbit/s
95th percentile per-packet one-way delay: 22.337 ms
Loss rate: 0.20%

Run 5: Report of Muses_DecisionTree — Data Link

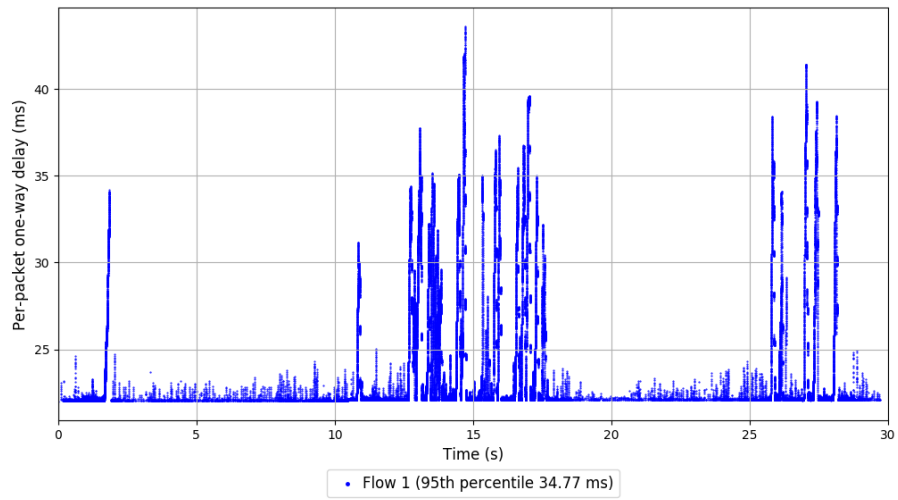
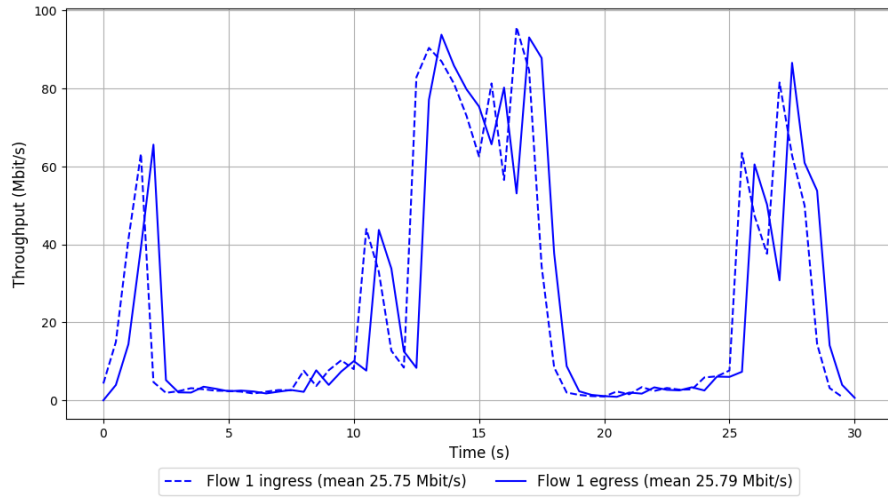


Run 1: Statistics of Muses_DecisionTreeH0

Start at: 2019-10-03 07:17:20
End at: 2019-10-03 07:17:50
Local clock offset: 7.915 ms
Remote clock offset: -2.756 ms

Below is generated by plot.py at 2019-10-03 09:43:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 25.79 Mbit/s
95th percentile per-packet one-way delay: 34.772 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 25.79 Mbit/s
95th percentile per-packet one-way delay: 34.772 ms
Loss rate: 0.02%

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-10-03 07:52:07

End at: 2019-10-03 07:52:37

Local clock offset: 6.729 ms

Remote clock offset: -1.5 ms

Below is generated by plot.py at 2019-10-03 09:43:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.77 Mbit/s

95th percentile per-packet one-way delay: 28.101 ms

Loss rate: 0.27%

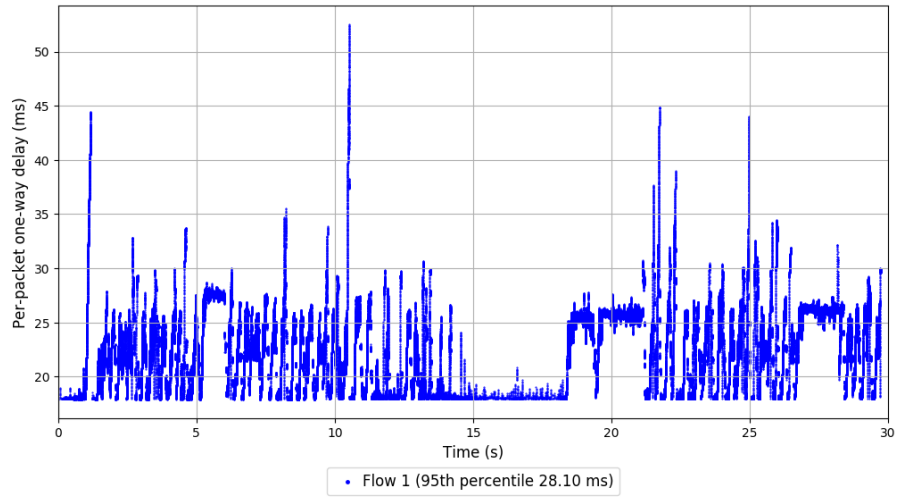
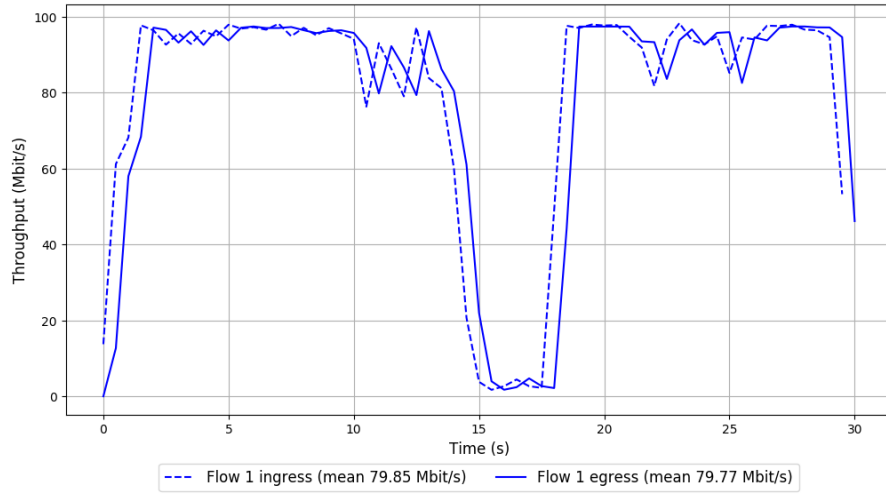
-- Flow 1:

Average throughput: 79.77 Mbit/s

95th percentile per-packet one-way delay: 28.101 ms

Loss rate: 0.27%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-10-03 08:23:51

End at: 2019-10-03 08:24:21

Local clock offset: 5.367 ms

Remote clock offset: -0.62 ms

Below is generated by plot.py at 2019-10-03 09:43:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.12 Mbit/s

95th percentile per-packet one-way delay: 33.075 ms

Loss rate: 0.22%

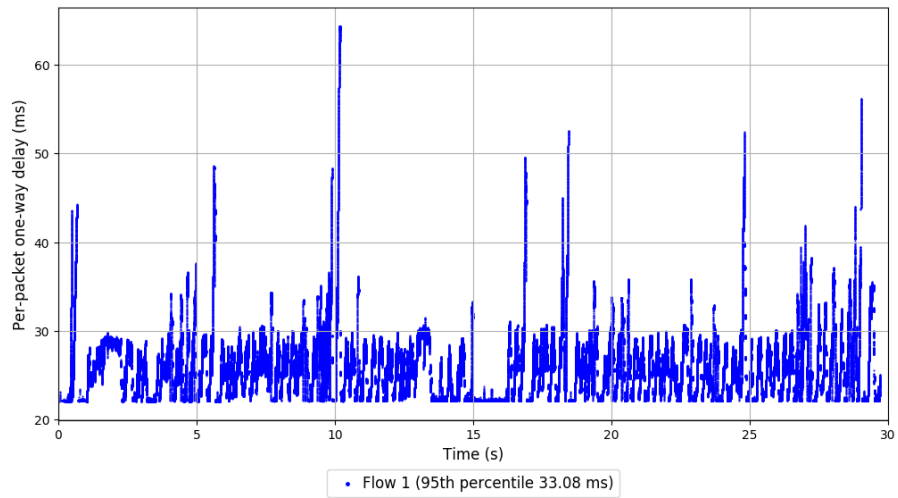
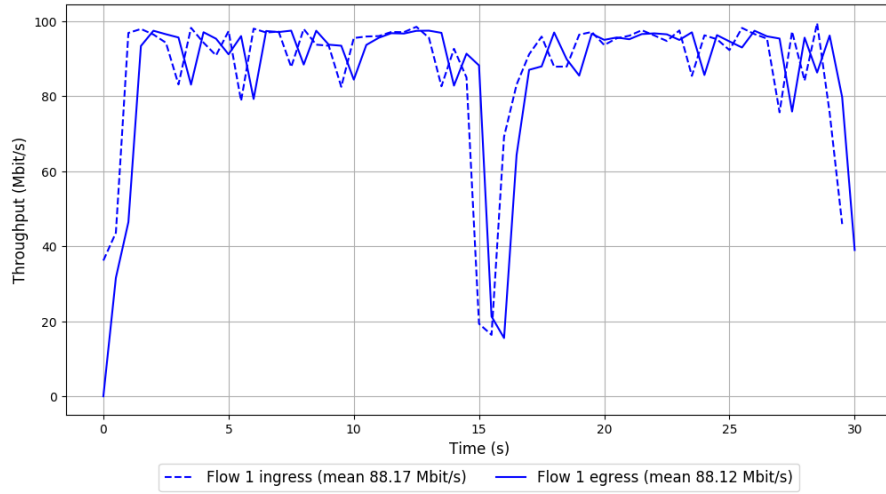
-- Flow 1:

Average throughput: 88.12 Mbit/s

95th percentile per-packet one-way delay: 33.075 ms

Loss rate: 0.22%

Run 3: Report of Muses_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-10-03 08:54:05

End at: 2019-10-03 08:54:35

Local clock offset: 0.963 ms

Remote clock offset: -0.93 ms

Below is generated by plot.py at 2019-10-03 09:43:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.30 Mbit/s

95th percentile per-packet one-way delay: 55.786 ms

Loss rate: 0.39%

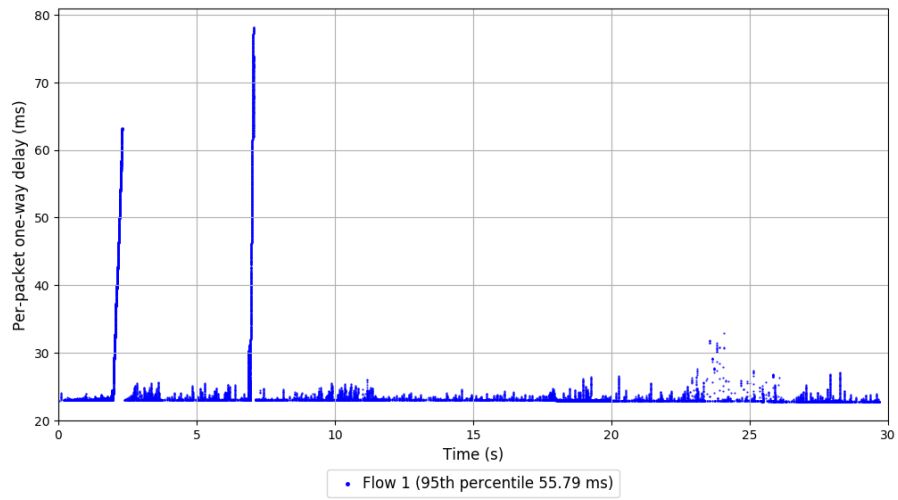
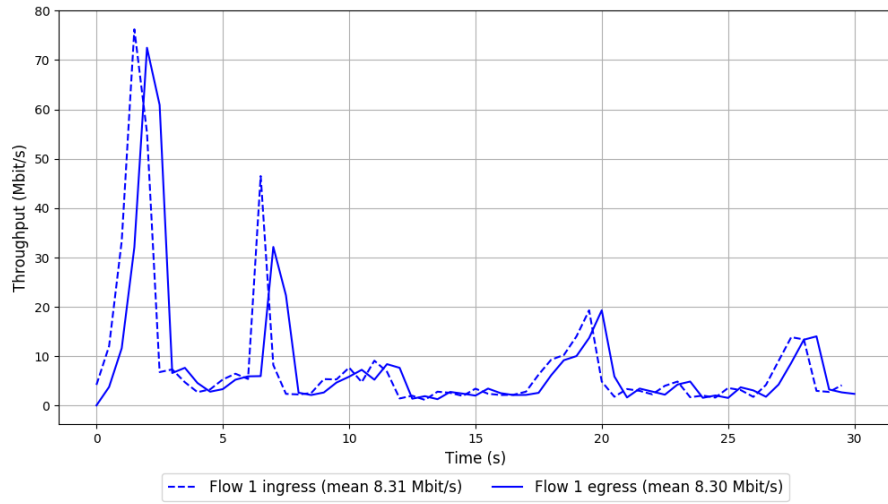
-- Flow 1:

Average throughput: 8.30 Mbit/s

95th percentile per-packet one-way delay: 55.786 ms

Loss rate: 0.39%

Run 4: Report of Muses_DecisionTreeH0 — Data Link

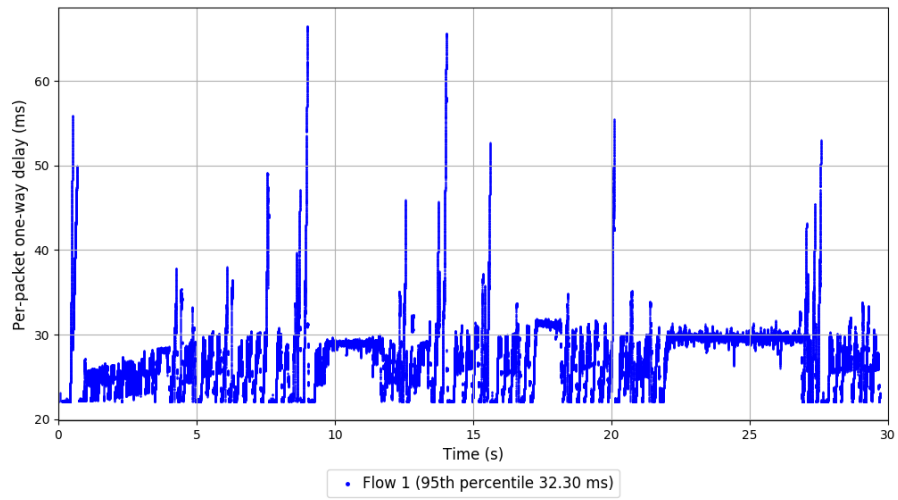
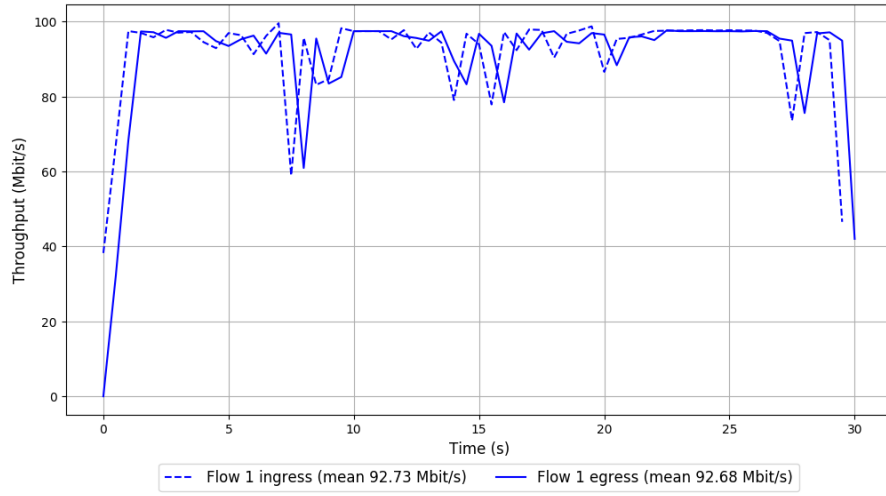


Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-10-03 09:23:22
End at: 2019-10-03 09:23:52
Local clock offset: 10.742 ms
Remote clock offset: -0.556 ms

Below is generated by plot.py at 2019-10-03 09:43:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.68 Mbit/s
95th percentile per-packet one-way delay: 32.303 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 92.68 Mbit/s
95th percentile per-packet one-way delay: 32.303 ms
Loss rate: 0.22%

Run 5: Report of Muses_DecisionTreeH0 — Data Link

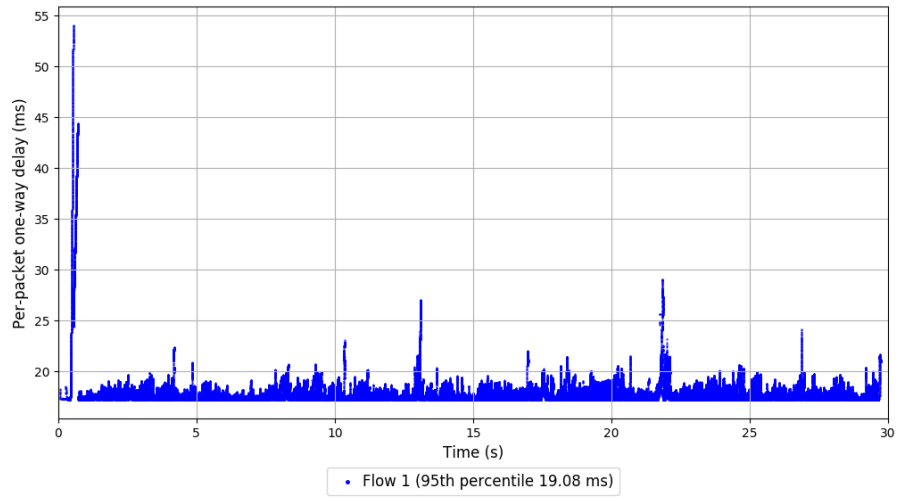
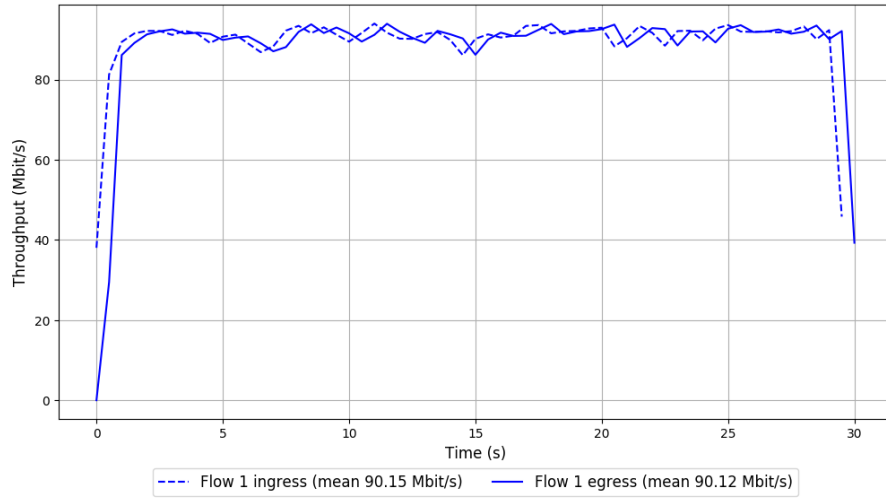


Run 1: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-03 07:28:02
End at: 2019-10-03 07:28:32
Local clock offset: 4.829 ms
Remote clock offset: -1.685 ms

Below is generated by plot.py at 2019-10-03 09:43:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.12 Mbit/s
95th percentile per-packet one-way delay: 19.079 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 90.12 Mbit/s
95th percentile per-packet one-way delay: 19.079 ms
Loss rate: 0.20%

Run 1: Report of Muses_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-03 08:04:07

End at: 2019-10-03 08:04:37

Local clock offset: 3.397 ms

Remote clock offset: 1.066 ms

Below is generated by plot.py at 2019-10-03 09:43:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.68 Mbit/s

95th percentile per-packet one-way delay: 23.101 ms

Loss rate: 0.02%

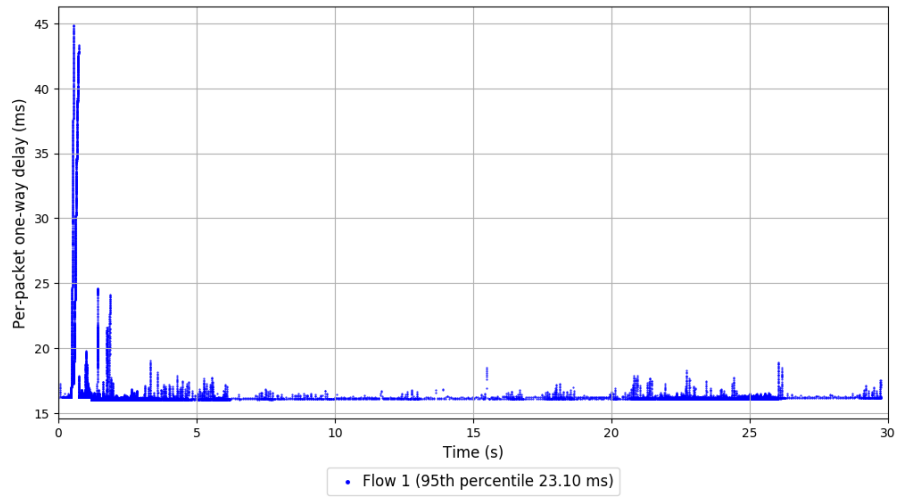
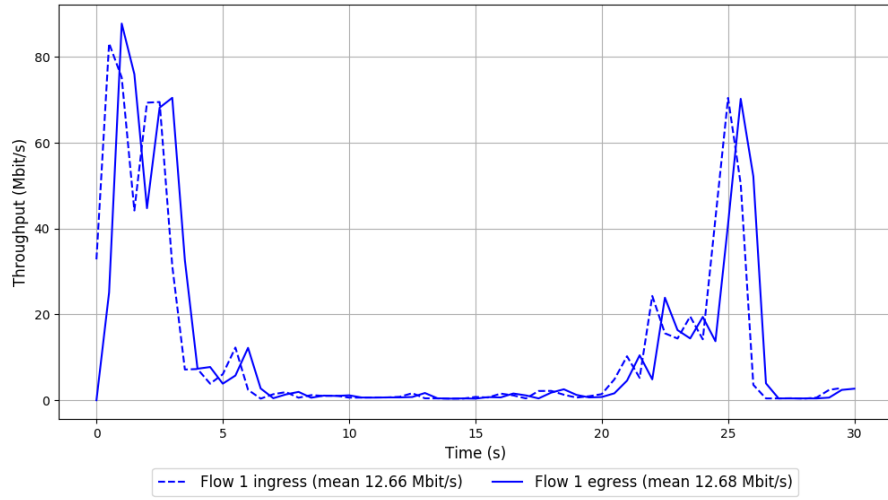
-- Flow 1:

Average throughput: 12.68 Mbit/s

95th percentile per-packet one-way delay: 23.101 ms

Loss rate: 0.02%

Run 2: Report of Muses_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-03 08:34:06

End at: 2019-10-03 08:34:36

Local clock offset: 2.724 ms

Remote clock offset: 0.489 ms

Below is generated by plot.py at 2019-10-03 09:43:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.03 Mbit/s

95th percentile per-packet one-way delay: 23.791 ms

Loss rate: 0.05%

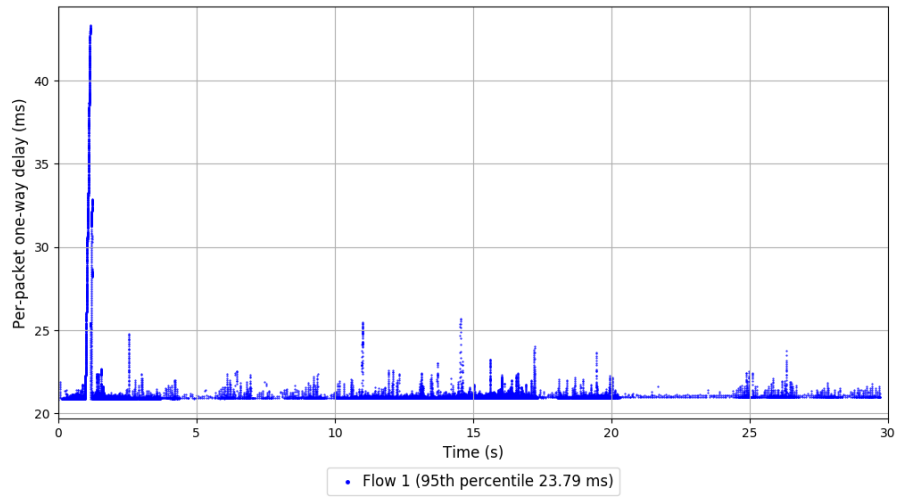
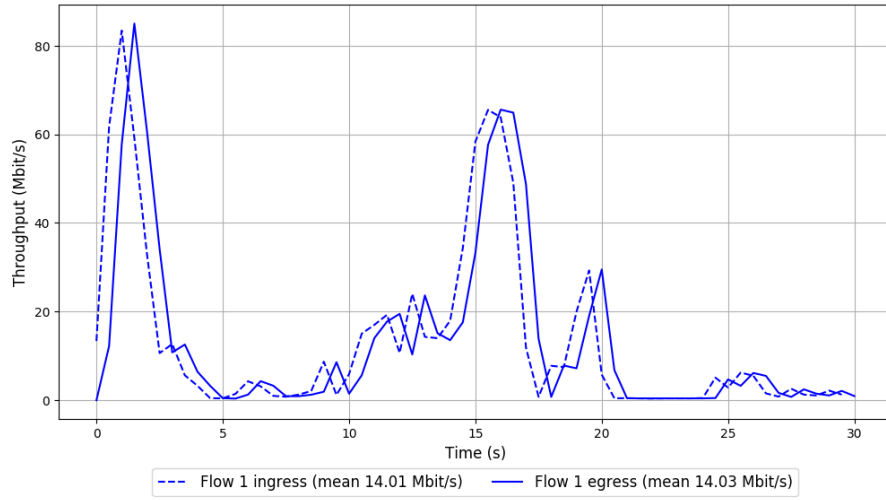
-- Flow 1:

Average throughput: 14.03 Mbit/s

95th percentile per-packet one-way delay: 23.791 ms

Loss rate: 0.05%

Run 3: Report of Muses_DecisionTreeR0 — Data Link

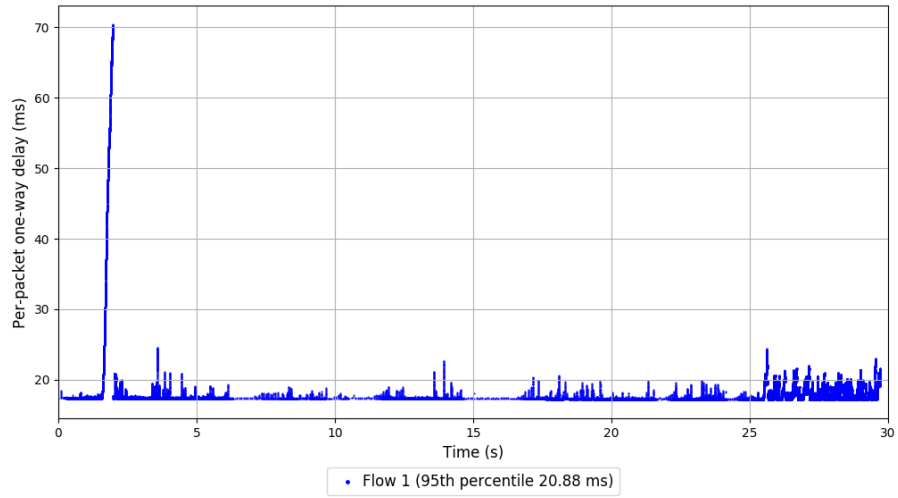
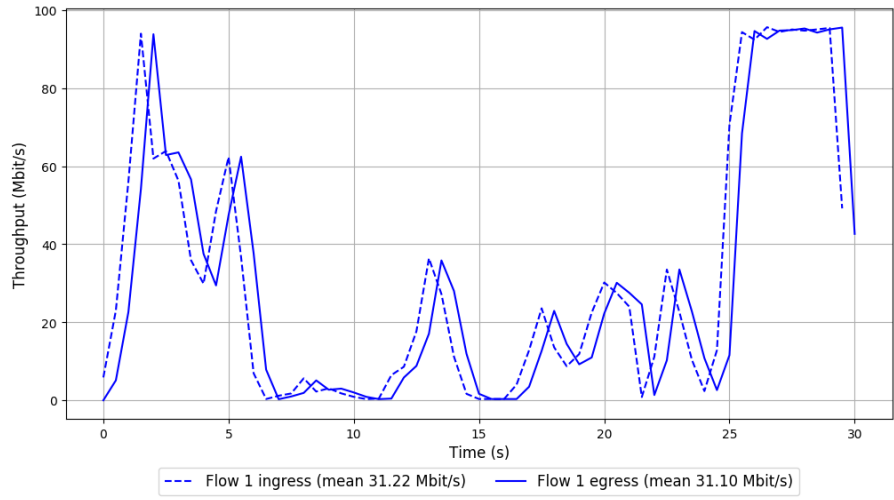


Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-03 09:03:36
End at: 2019-10-03 09:04:06
Local clock offset: 2.177 ms
Remote clock offset: -0.641 ms

Below is generated by plot.py at 2019-10-03 09:43:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 31.10 Mbit/s
95th percentile per-packet one-way delay: 20.881 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 31.10 Mbit/s
95th percentile per-packet one-way delay: 20.881 ms
Loss rate: 0.55%

Run 4: Report of Muses_DecisionTreeR0 — Data Link

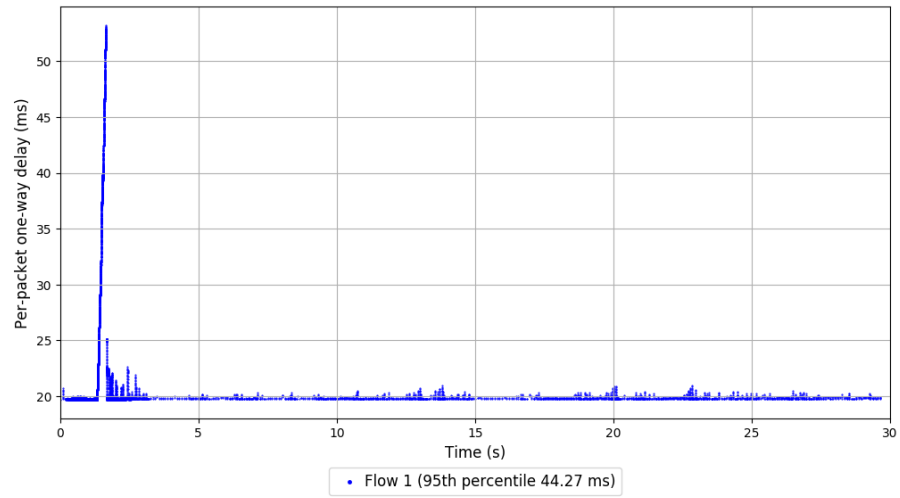
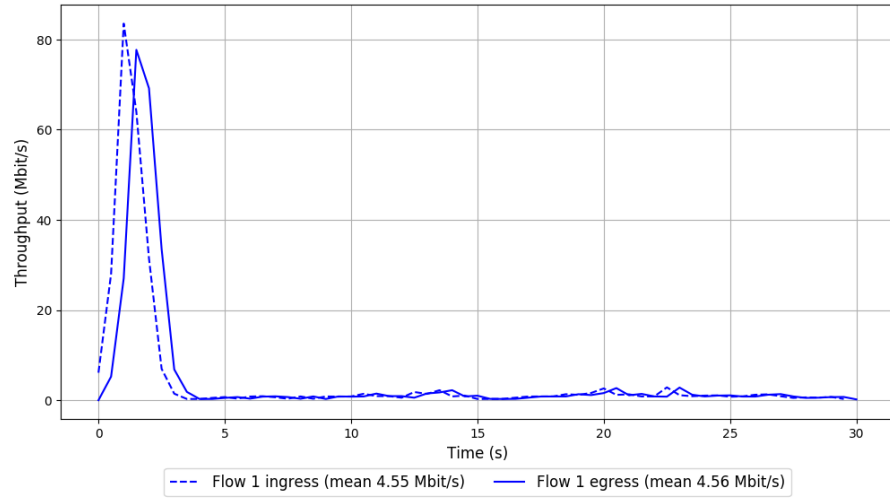


Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-03 09:33:09
End at: 2019-10-03 09:33:39
Local clock offset: 5.707 ms
Remote clock offset: -0.416 ms

Below is generated by plot.py at 2019-10-03 09:43:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.56 Mbit/s
95th percentile per-packet one-way delay: 44.266 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 4.56 Mbit/s
95th percentile per-packet one-way delay: 44.266 ms
Loss rate: 0.08%

Run 5: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-10-03 07:06:22

End at: 2019-10-03 07:06:52

Local clock offset: 7.76 ms

Remote clock offset: -1.911 ms

Below is generated by plot.py at 2019-10-03 09:44:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.39 Mbit/s

95th percentile per-packet one-way delay: 22.913 ms

Loss rate: 0.26%

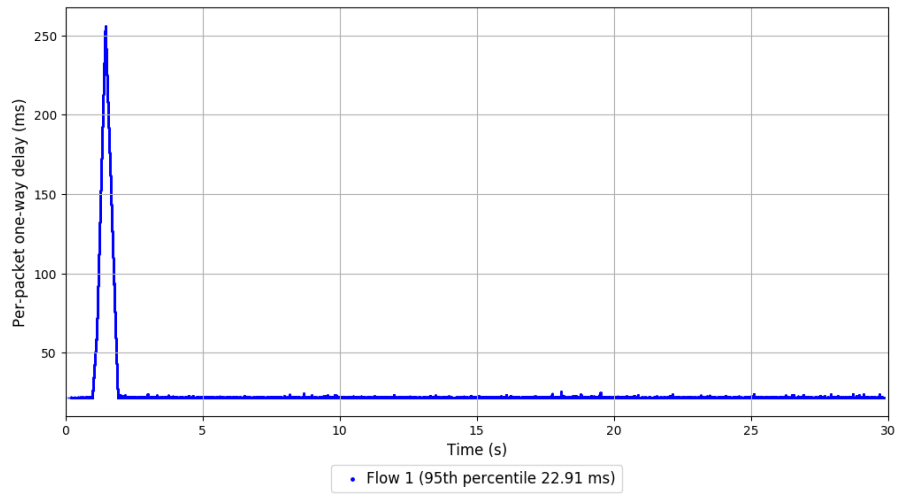
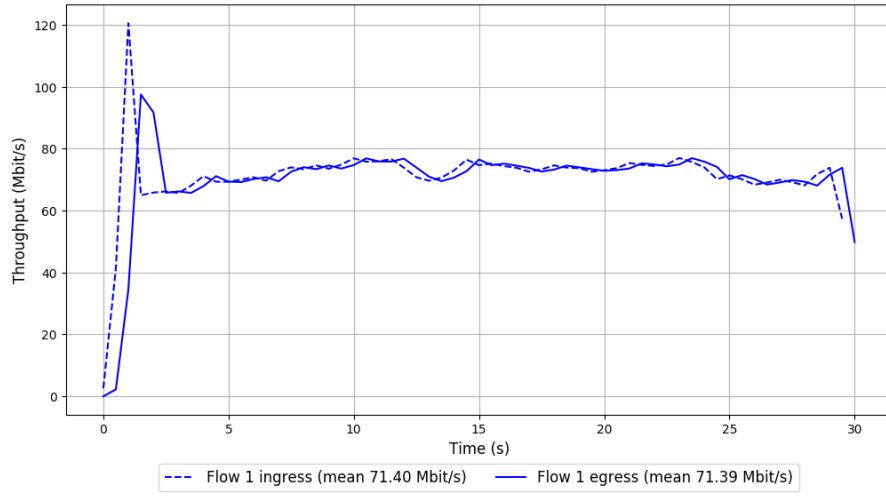
-- Flow 1:

Average throughput: 71.39 Mbit/s

95th percentile per-packet one-way delay: 22.913 ms

Loss rate: 0.26%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-10-03 07:40:30

End at: 2019-10-03 07:41:00

Local clock offset: 11.056 ms

Remote clock offset: -0.667 ms

Below is generated by plot.py at 2019-10-03 09:44:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.56 Mbit/s

95th percentile per-packet one-way delay: 25.043 ms

Loss rate: 0.18%

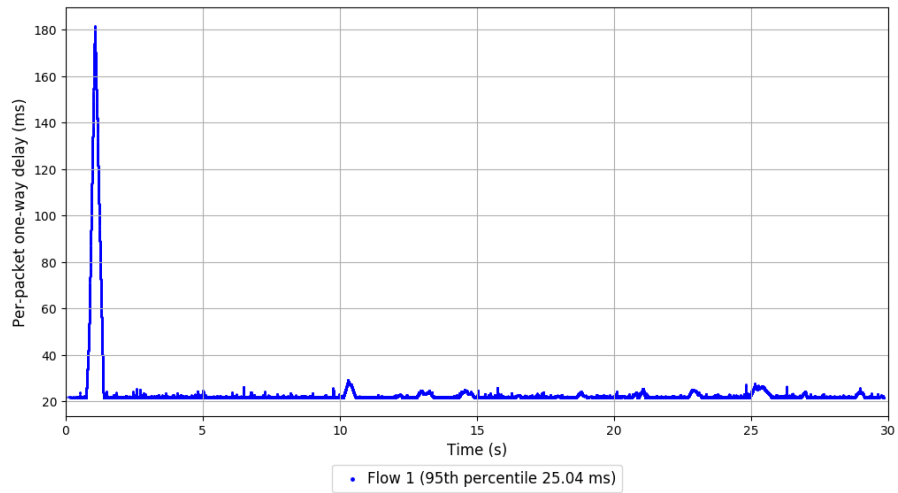
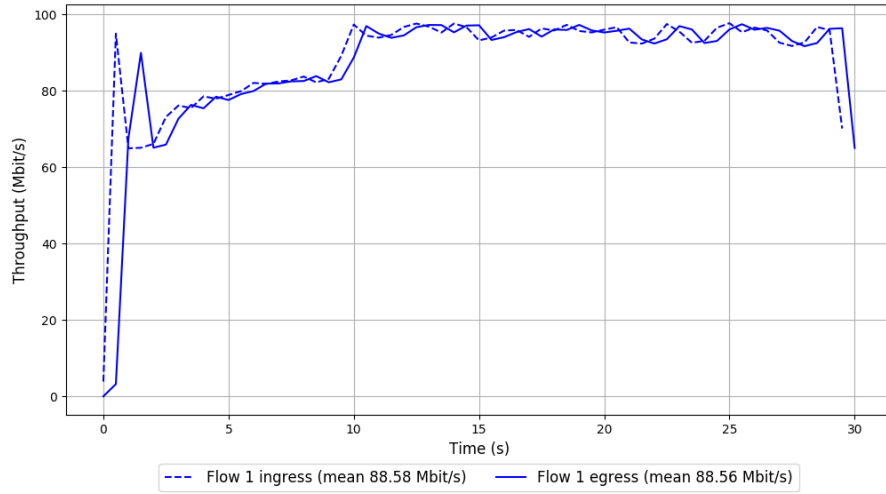
-- Flow 1:

Average throughput: 88.56 Mbit/s

95th percentile per-packet one-way delay: 25.043 ms

Loss rate: 0.18%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-10-03 08:13:59

End at: 2019-10-03 08:14:29

Local clock offset: 1.507 ms

Remote clock offset: -0.964 ms

Below is generated by plot.py at 2019-10-03 09:44:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.77 Mbit/s

95th percentile per-packet one-way delay: 17.962 ms

Loss rate: 0.17%

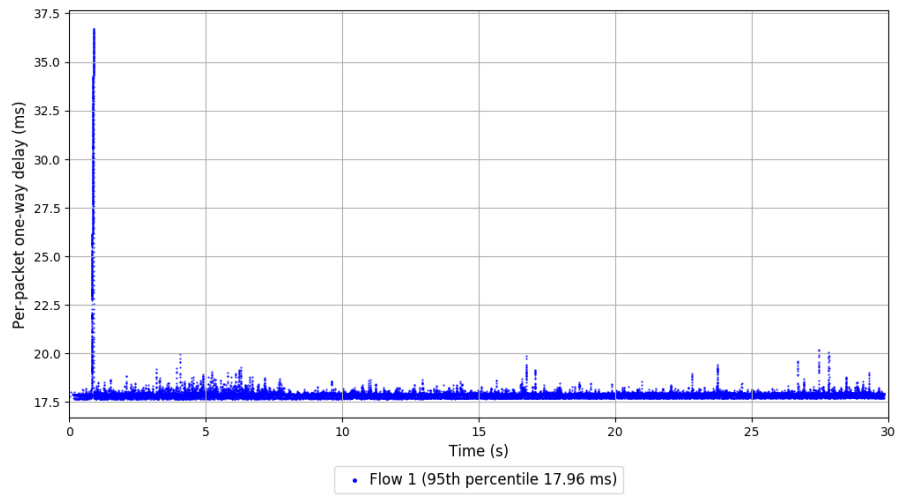
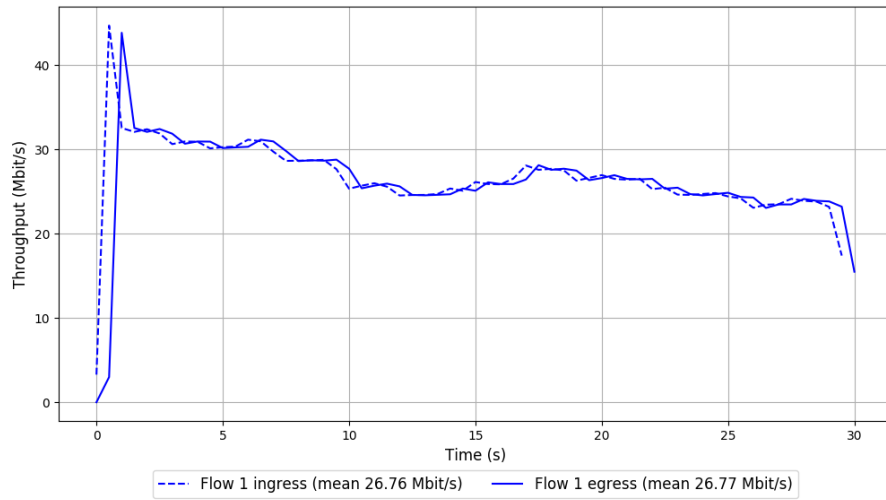
-- Flow 1:

Average throughput: 26.77 Mbit/s

95th percentile per-packet one-way delay: 17.962 ms

Loss rate: 0.17%

Run 3: Report of PCC-Allegro — Data Link

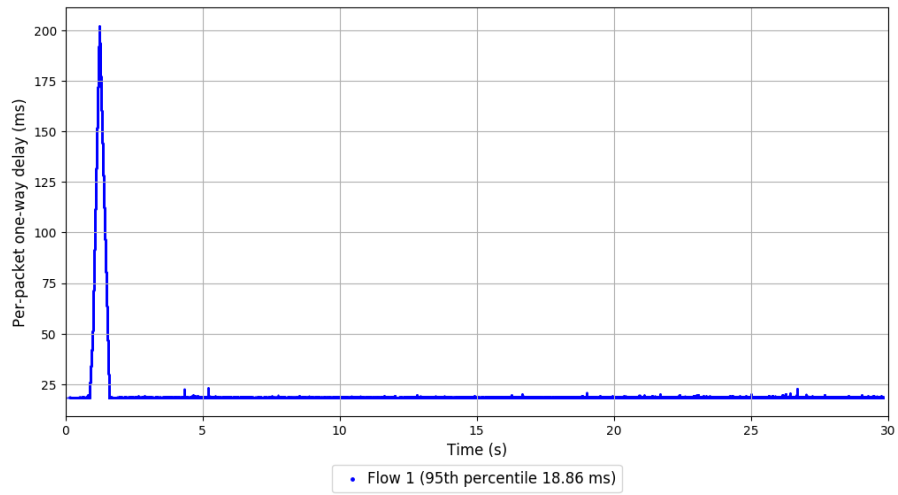
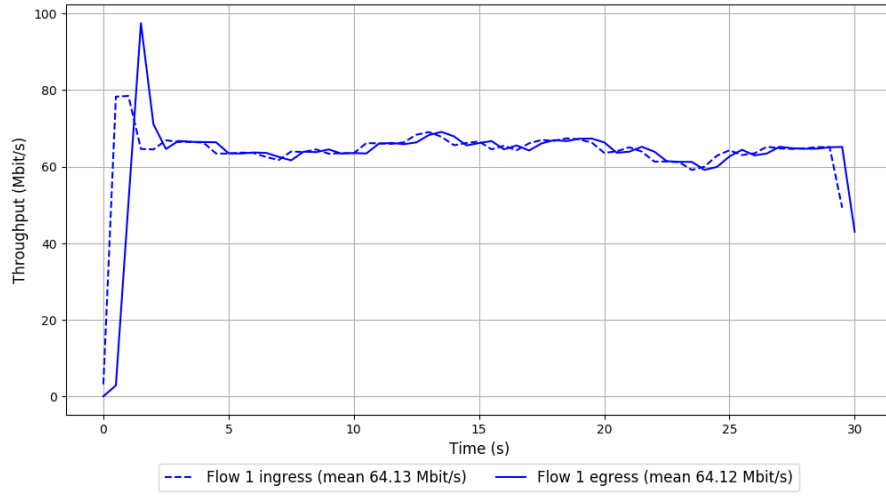


Run 4: Statistics of PCC-Allegro

Start at: 2019-10-03 08:44:15
End at: 2019-10-03 08:44:45
Local clock offset: -2.258 ms
Remote clock offset: -0.622 ms

Below is generated by plot.py at 2019-10-03 09:44:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 64.12 Mbit/s
95th percentile per-packet one-way delay: 18.859 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 64.12 Mbit/s
95th percentile per-packet one-way delay: 18.859 ms
Loss rate: 0.24%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-10-03 09:13:34

End at: 2019-10-03 09:14:04

Local clock offset: 4.97 ms

Remote clock offset: 1.281 ms

Below is generated by plot.py at 2019-10-03 09:44:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.01 Mbit/s

95th percentile per-packet one-way delay: 25.982 ms

Loss rate: 0.22%

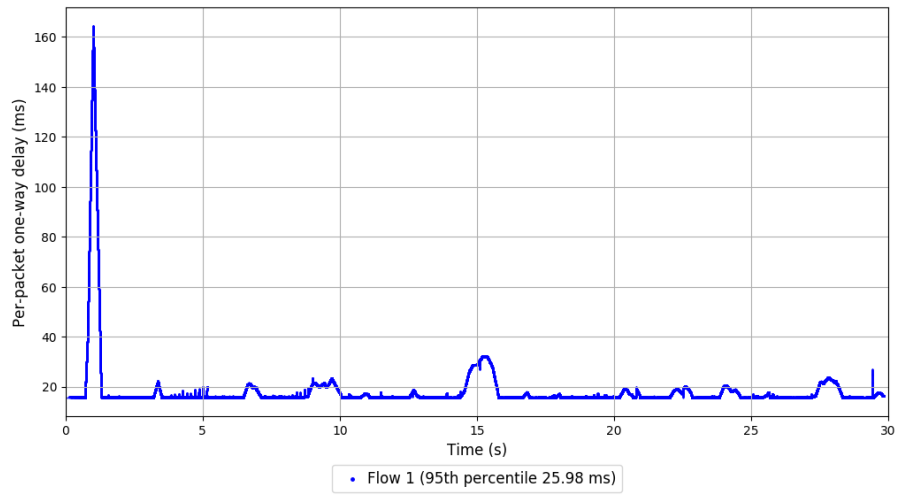
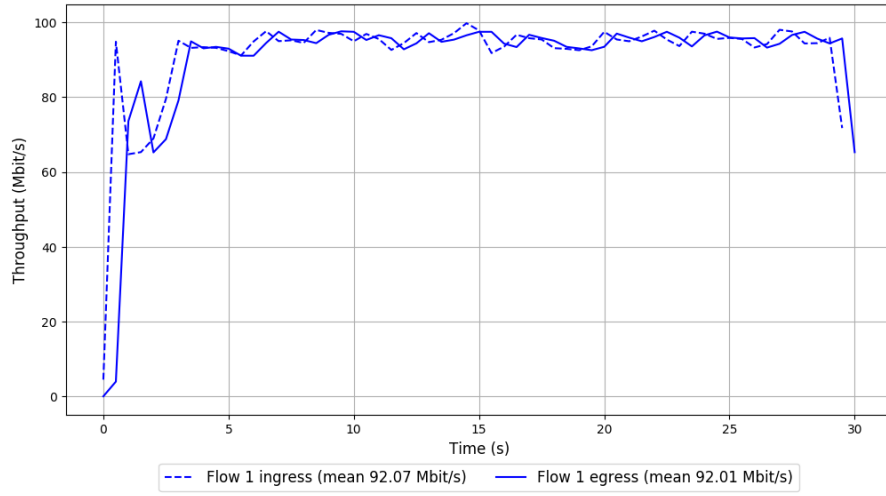
-- Flow 1:

Average throughput: 92.01 Mbit/s

95th percentile per-packet one-way delay: 25.982 ms

Loss rate: 0.22%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-10-03 07:18:35

End at: 2019-10-03 07:19:05

Local clock offset: 4.699 ms

Remote clock offset: -0.63 ms

Below is generated by plot.py at 2019-10-03 09:44:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.86 Mbit/s

95th percentile per-packet one-way delay: 185.546 ms

Loss rate: 4.10%

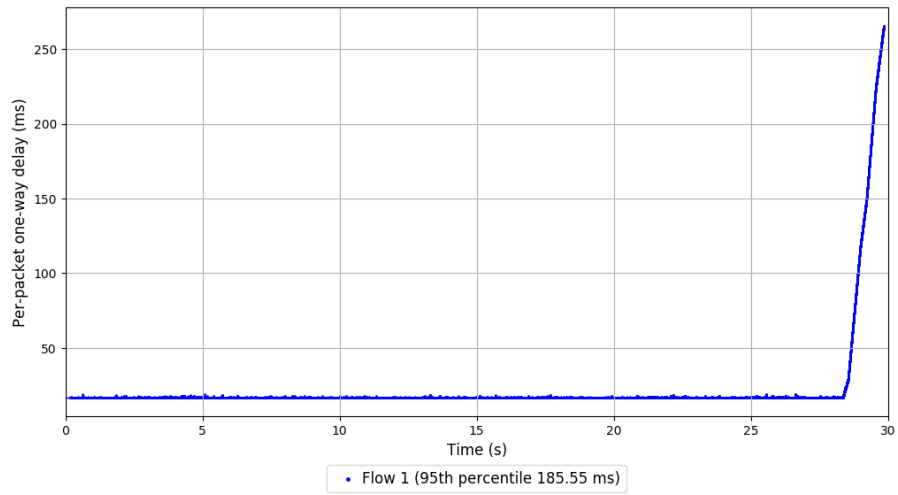
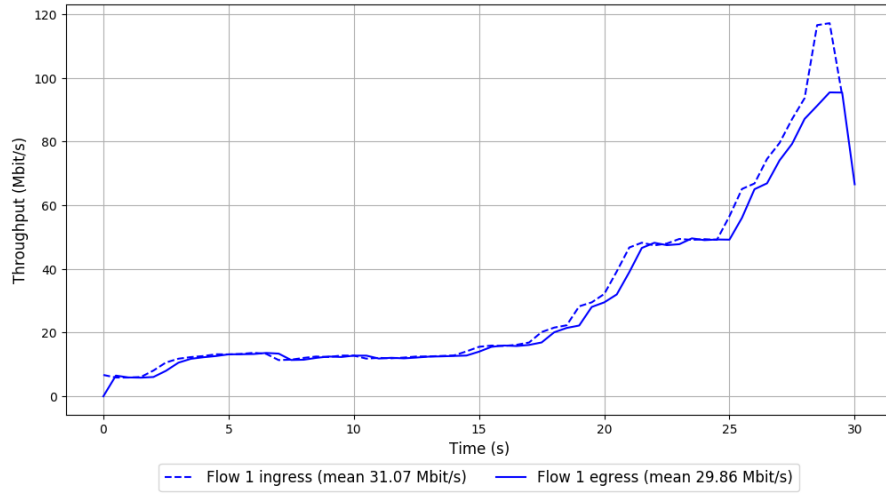
-- Flow 1:

Average throughput: 29.86 Mbit/s

95th percentile per-packet one-way delay: 185.546 ms

Loss rate: 4.10%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-10-03 07:53:36

End at: 2019-10-03 07:54:06

Local clock offset: 8.664 ms

Remote clock offset: -1.134 ms

Below is generated by plot.py at 2019-10-03 09:45:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.05 Mbit/s

95th percentile per-packet one-way delay: 547.584 ms

Loss rate: 0.92%

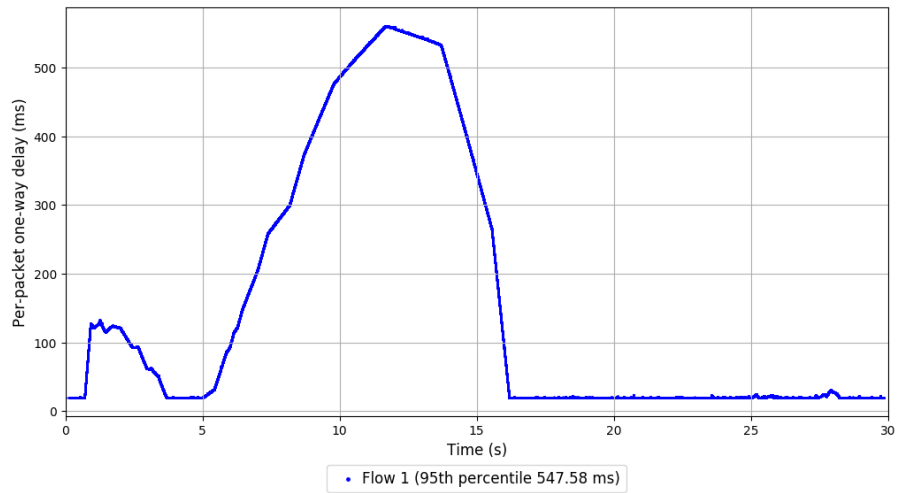
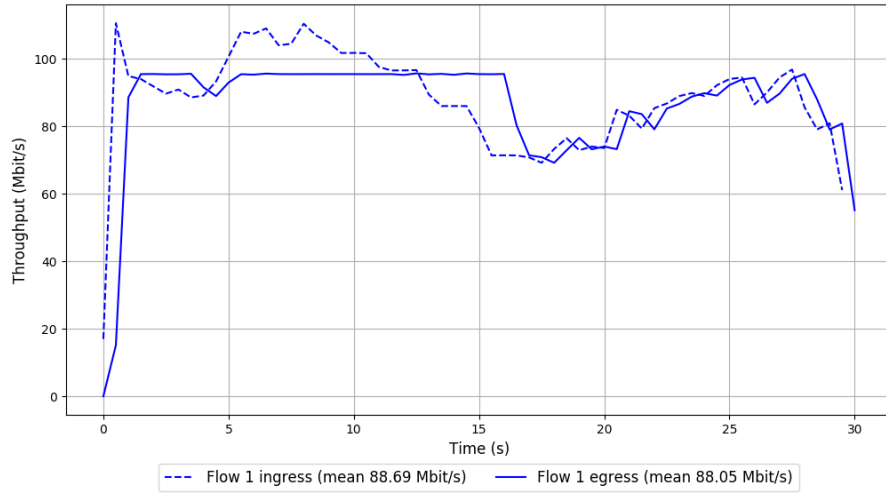
-- Flow 1:

Average throughput: 88.05 Mbit/s

95th percentile per-packet one-way delay: 547.584 ms

Loss rate: 0.92%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-10-03 08:25:07

End at: 2019-10-03 08:25:37

Local clock offset: 0.267 ms

Remote clock offset: 1.196 ms

Below is generated by plot.py at 2019-10-03 09:45:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.40 Mbit/s

95th percentile per-packet one-way delay: 42.652 ms

Loss rate: 0.14%

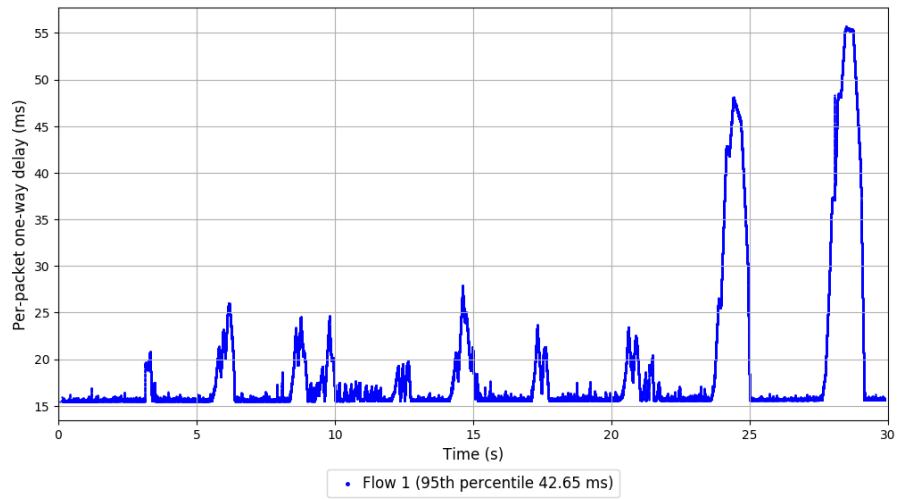
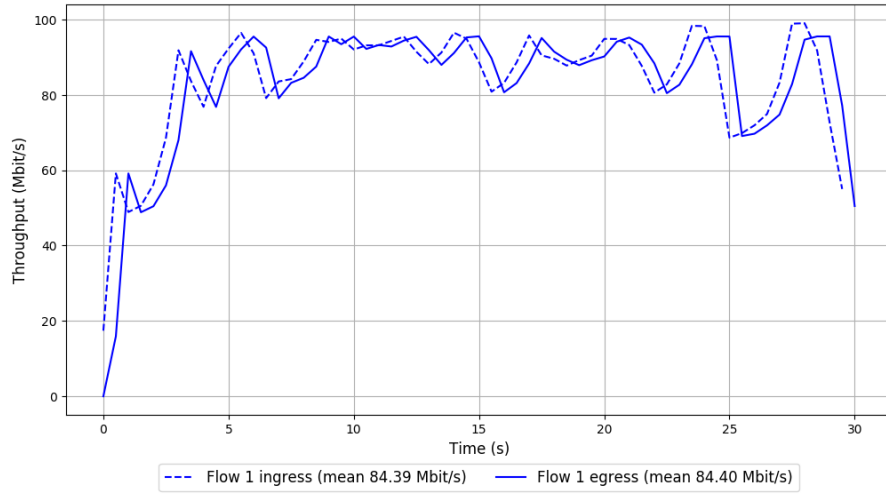
-- Flow 1:

Average throughput: 84.40 Mbit/s

95th percentile per-packet one-way delay: 42.652 ms

Loss rate: 0.14%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-10-03 08:55:12

End at: 2019-10-03 08:55:42

Local clock offset: -3.322 ms

Remote clock offset: 1.327 ms

Below is generated by plot.py at 2019-10-03 09:45:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.20 Mbit/s

95th percentile per-packet one-way delay: 15.529 ms

Loss rate: 0.31%

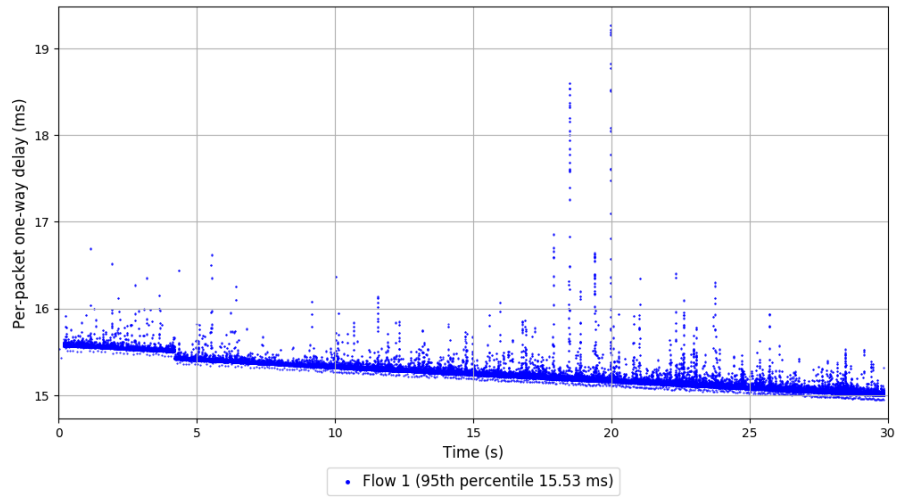
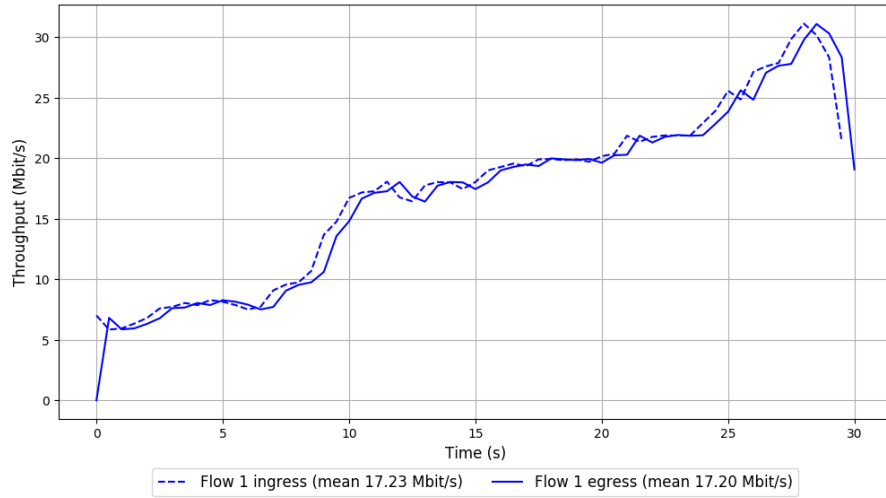
-- Flow 1:

Average throughput: 17.20 Mbit/s

95th percentile per-packet one-way delay: 15.529 ms

Loss rate: 0.31%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-10-03 09:24:37

End at: 2019-10-03 09:25:07

Local clock offset: 6.452 ms

Remote clock offset: 0.651 ms

Below is generated by plot.py at 2019-10-03 09:46:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.42 Mbit/s

95th percentile per-packet one-way delay: 654.065 ms

Loss rate: 6.07%

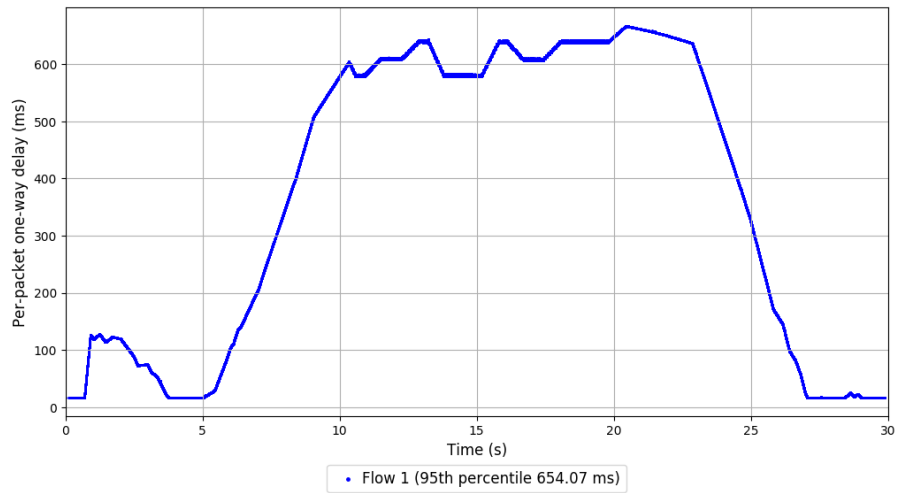
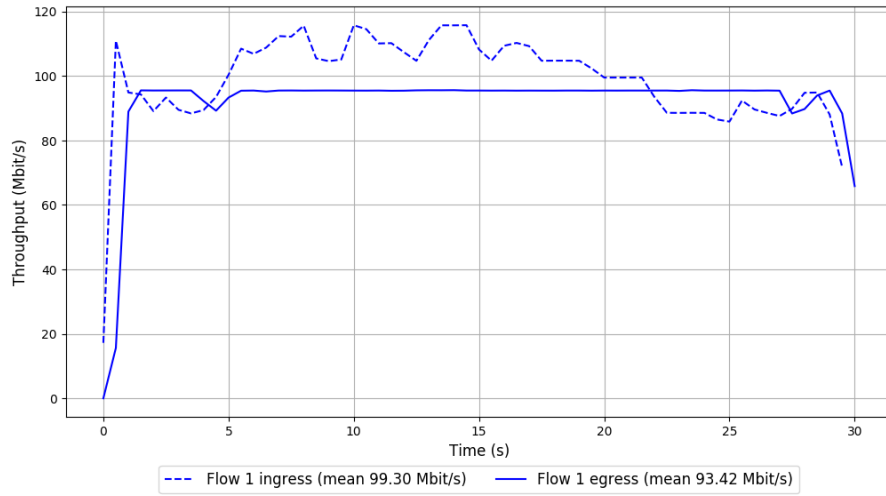
-- Flow 1:

Average throughput: 93.42 Mbit/s

95th percentile per-packet one-way delay: 654.065 ms

Loss rate: 6.07%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-10-03 07:26:35

End at: 2019-10-03 07:27:05

Local clock offset: 6.756 ms

Remote clock offset: -2.896 ms

Below is generated by plot.py at 2019-10-03 09:46:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.24 Mbit/s

95th percentile per-packet one-way delay: 28.420 ms

Loss rate: 0.21%

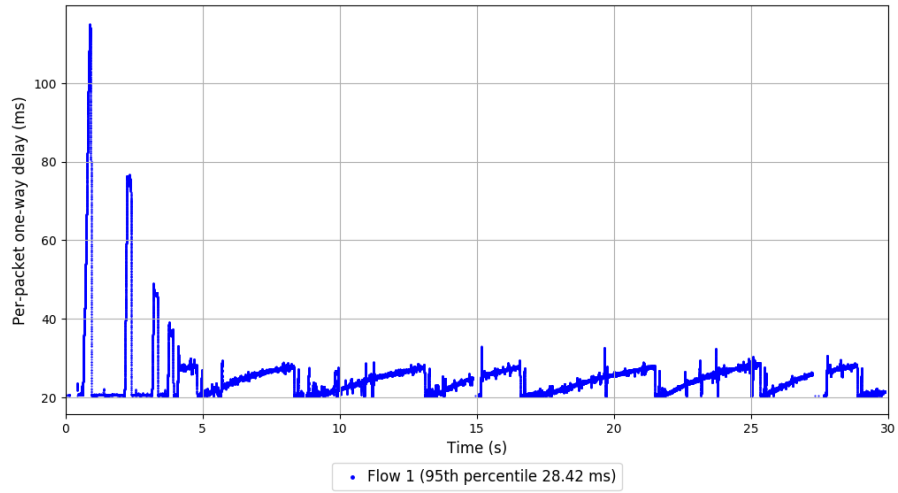
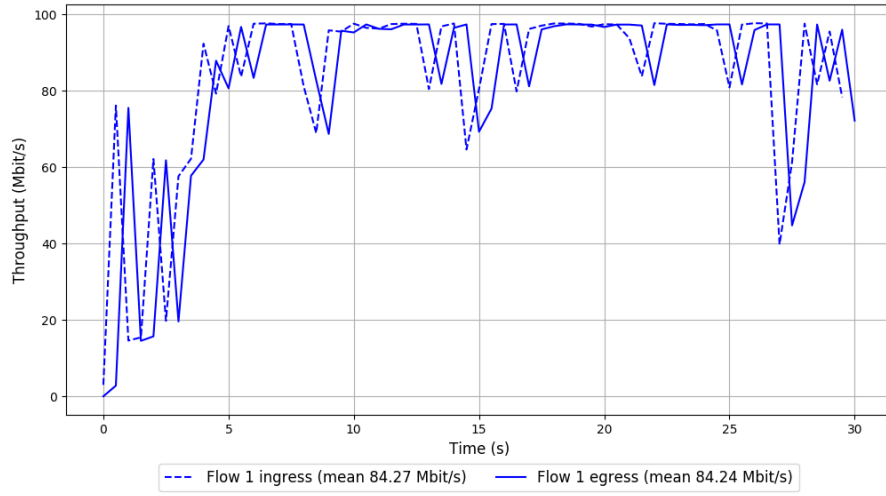
-- Flow 1:

Average throughput: 84.24 Mbit/s

95th percentile per-packet one-way delay: 28.420 ms

Loss rate: 0.21%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-10-03 08:02:39

End at: 2019-10-03 08:03:09

Local clock offset: 6.06 ms

Remote clock offset: -1.195 ms

Below is generated by plot.py at 2019-10-03 09:46:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.24 Mbit/s

95th percentile per-packet one-way delay: 27.513 ms

Loss rate: 0.28%

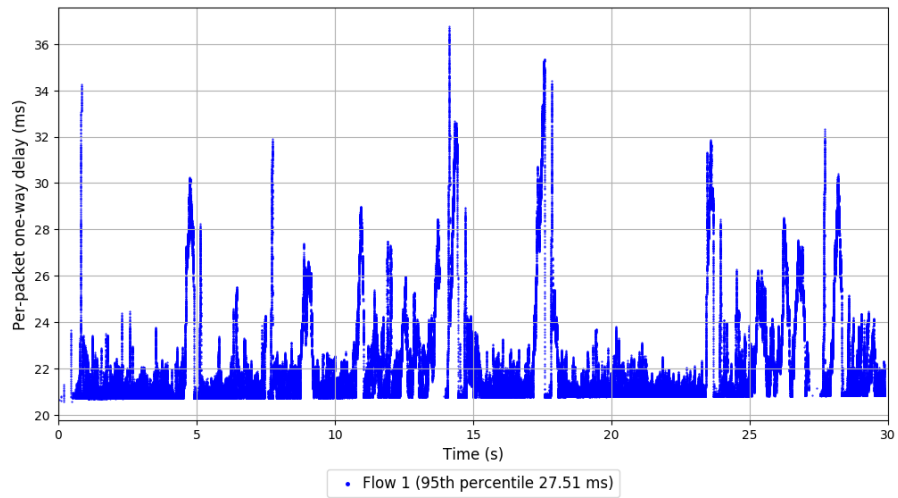
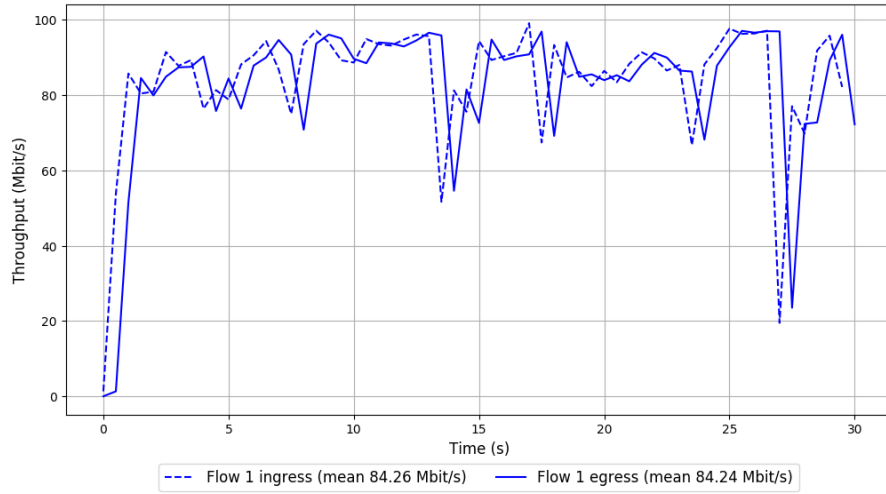
-- Flow 1:

Average throughput: 84.24 Mbit/s

95th percentile per-packet one-way delay: 27.513 ms

Loss rate: 0.28%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-10-03 08:32:49

End at: 2019-10-03 08:33:19

Local clock offset: 0.881 ms

Remote clock offset: -0.514 ms

Below is generated by plot.py at 2019-10-03 09:46:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.51 Mbit/s

95th percentile per-packet one-way delay: 28.292 ms

Loss rate: 0.21%

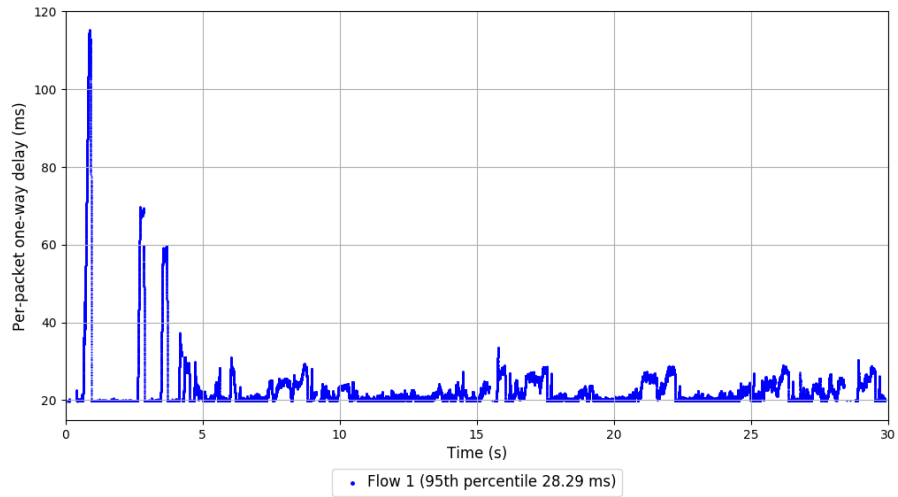
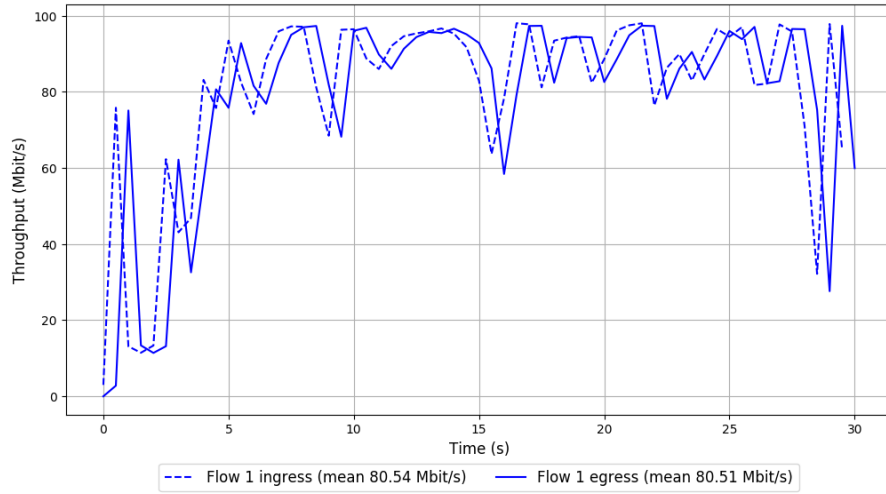
-- Flow 1:

Average throughput: 80.51 Mbit/s

95th percentile per-packet one-way delay: 28.292 ms

Loss rate: 0.21%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-10-03 09:02:21

End at: 2019-10-03 09:02:51

Local clock offset: 6.387 ms

Remote clock offset: 0.519 ms

Below is generated by plot.py at 2019-10-03 09:46:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.52 Mbit/s

95th percentile per-packet one-way delay: 30.203 ms

Loss rate: 0.30%

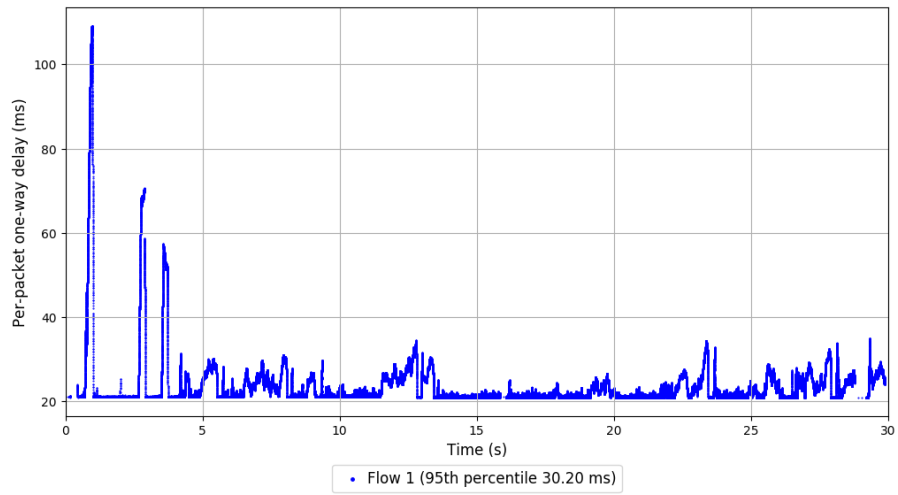
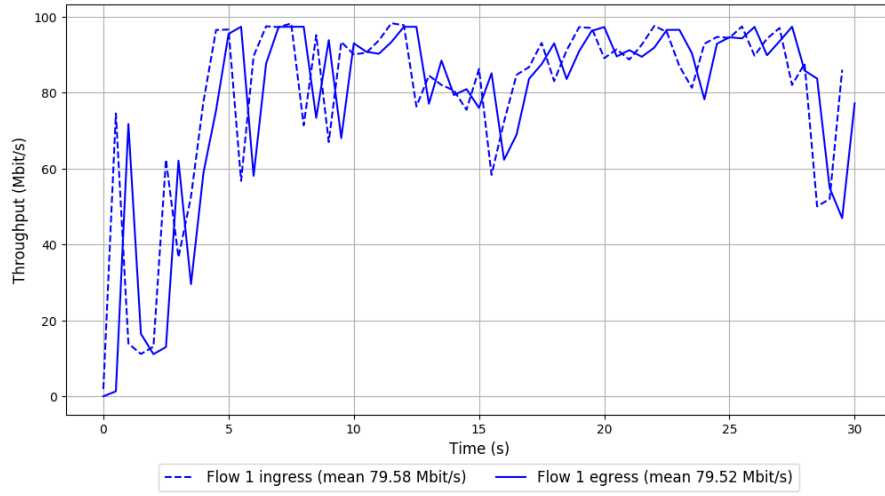
-- Flow 1:

Average throughput: 79.52 Mbit/s

95th percentile per-packet one-way delay: 30.203 ms

Loss rate: 0.30%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-10-03 09:31:59

End at: 2019-10-03 09:32:29

Local clock offset: 6.504 ms

Remote clock offset: 1.542 ms

Below is generated by plot.py at 2019-10-03 09:46:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.41 Mbit/s

95th percentile per-packet one-way delay: 26.136 ms

Loss rate: 0.26%

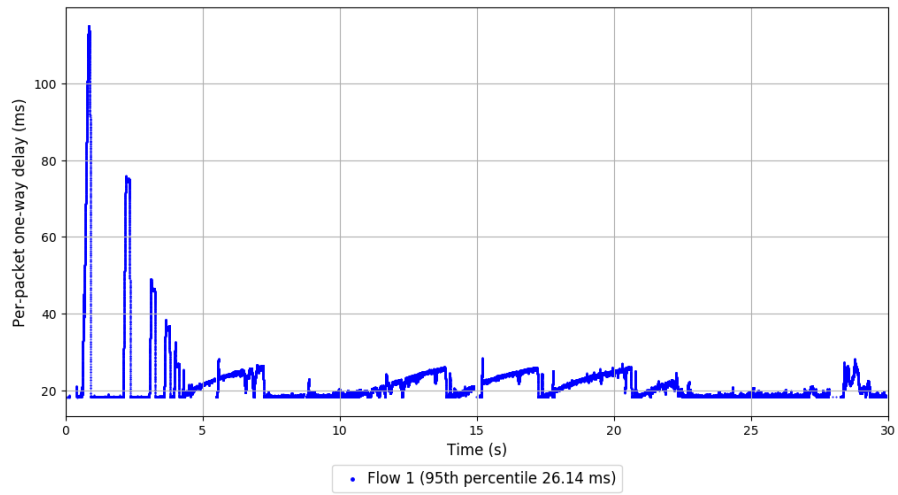
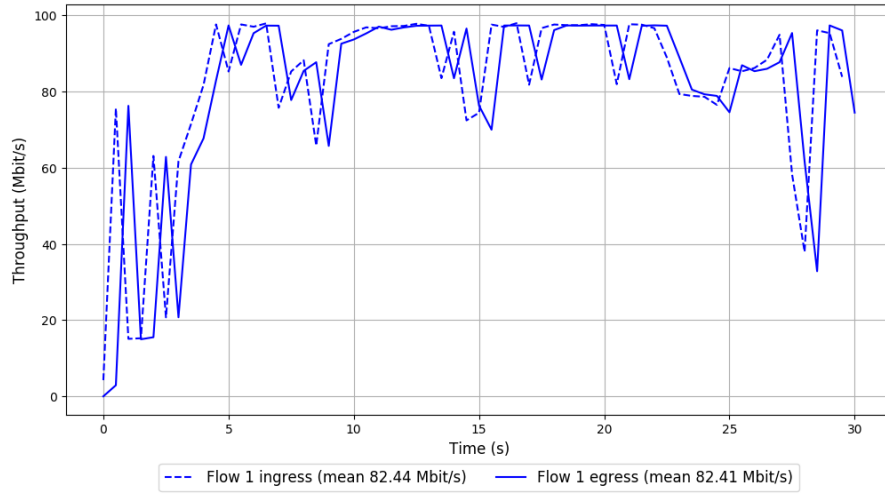
-- Flow 1:

Average throughput: 82.41 Mbit/s

95th percentile per-packet one-way delay: 26.136 ms

Loss rate: 0.26%

Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2019-10-03 07:10:48

End at: 2019-10-03 07:11:18

Local clock offset: 5.806 ms

Remote clock offset: -1.694 ms

Below is generated by plot.py at 2019-10-03 09:46:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.506 ms

Loss rate: 0.25%

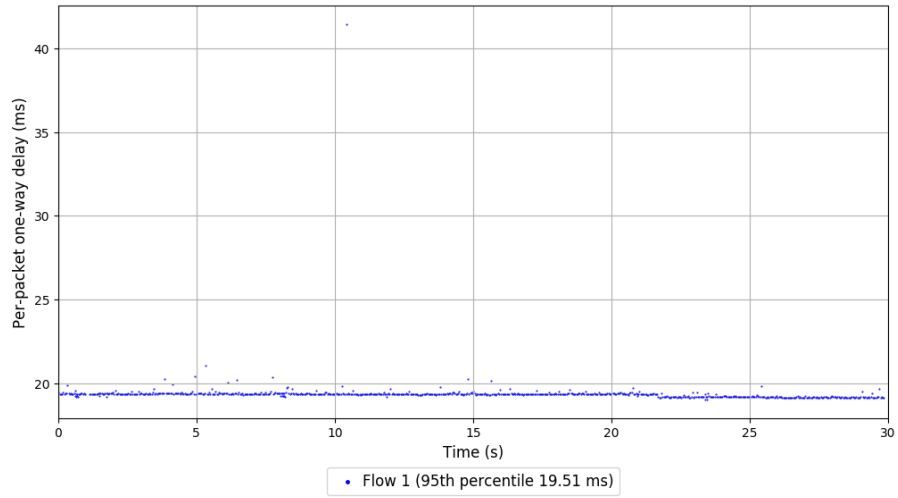
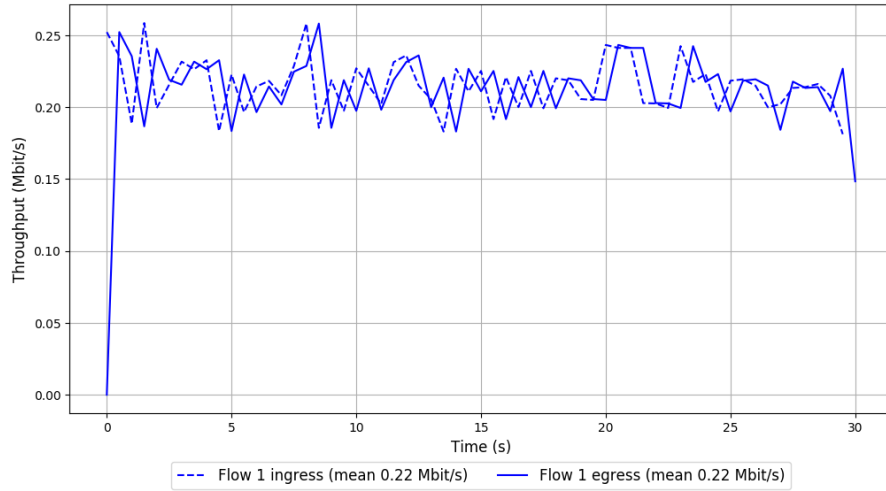
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.506 ms

Loss rate: 0.25%

Run 1: Report of SCReAM — Data Link

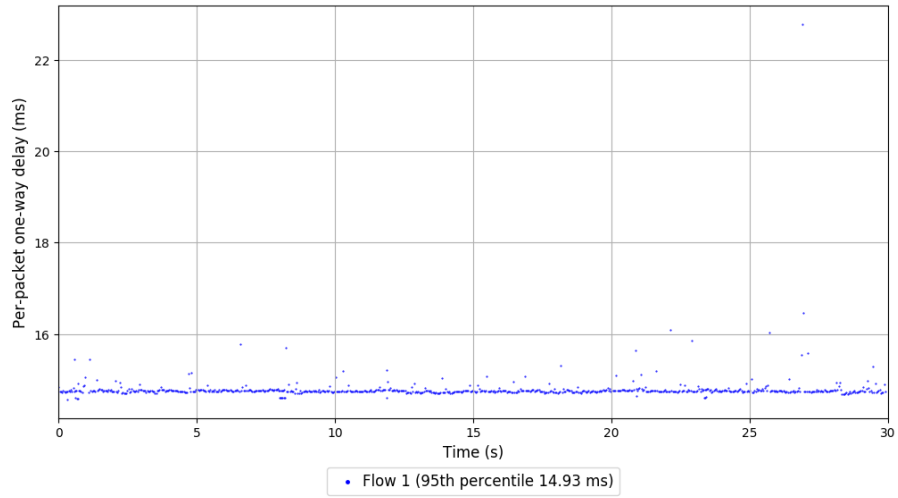
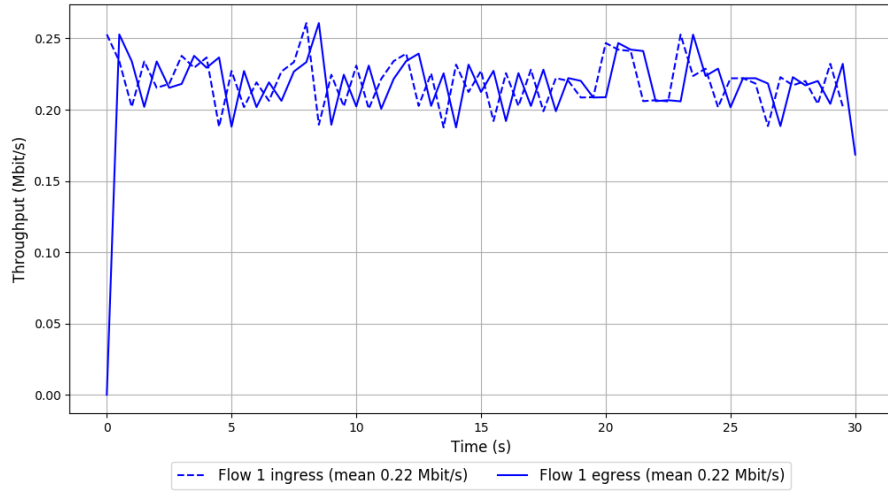


Run 2: Statistics of SCReAM

Start at: 2019-10-03 07:44:53
End at: 2019-10-03 07:45:23
Local clock offset: 4.411 ms
Remote clock offset: -0.433 ms

Below is generated by plot.py at 2019-10-03 09:46:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 14.930 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 14.930 ms
Loss rate: 0.26%

Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-10-03 08:17:47

End at: 2019-10-03 08:18:17

Local clock offset: 2.334 ms

Remote clock offset: 1.348 ms

Below is generated by plot.py at 2019-10-03 09:46:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 16.728 ms

Loss rate: 0.13%

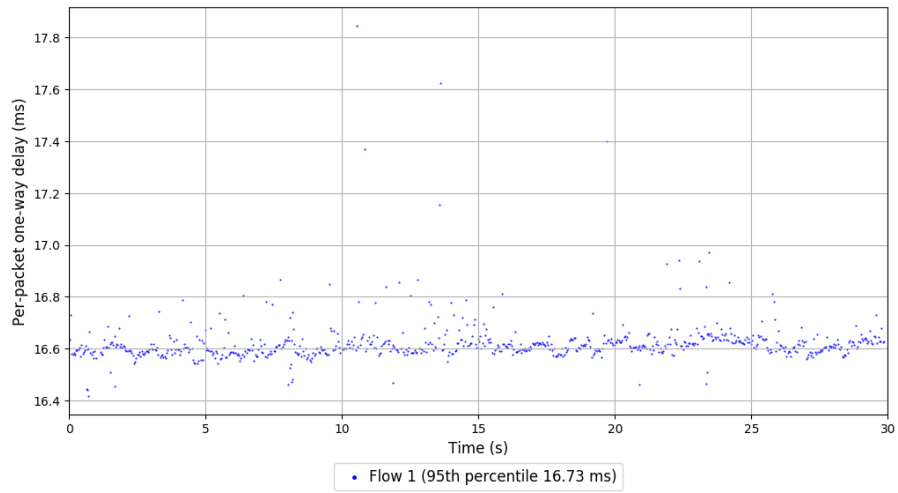
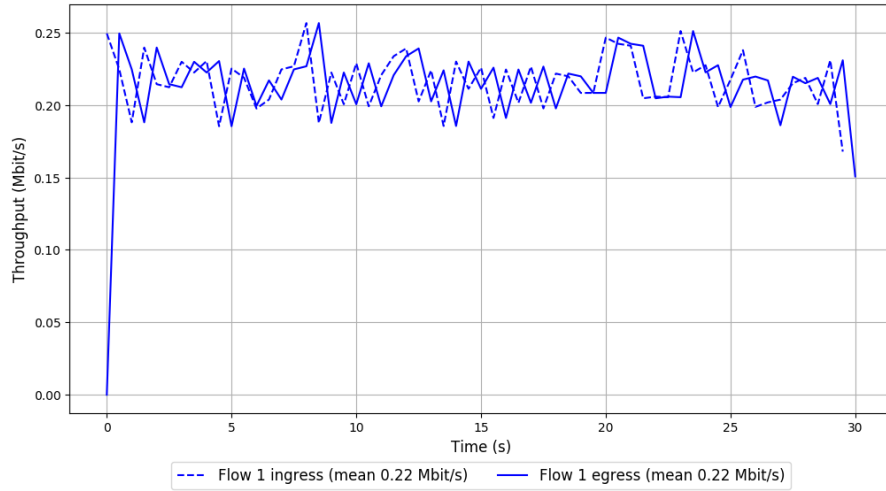
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 16.728 ms

Loss rate: 0.13%

Run 3: Report of SCReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-10-03 08:48:05

End at: 2019-10-03 08:48:35

Local clock offset: -1.926 ms

Remote clock offset: 1.206 ms

Below is generated by plot.py at 2019-10-03 09:46:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.676 ms

Loss rate: 0.26%

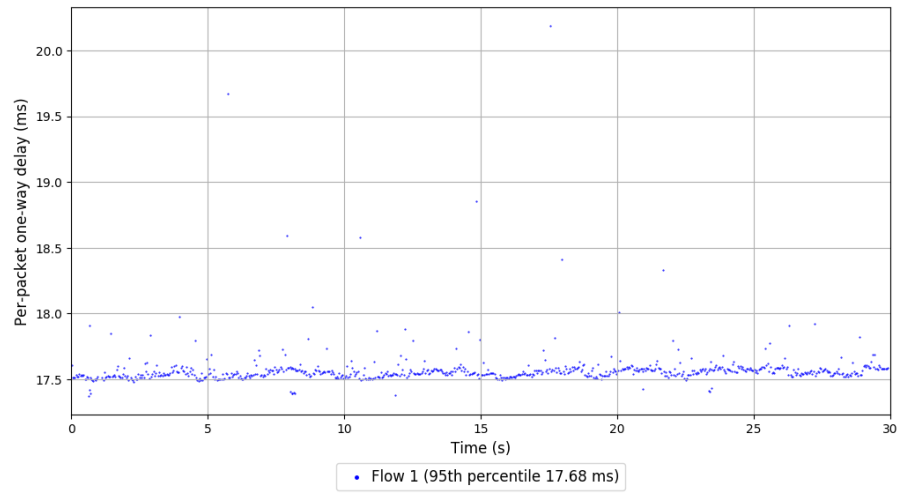
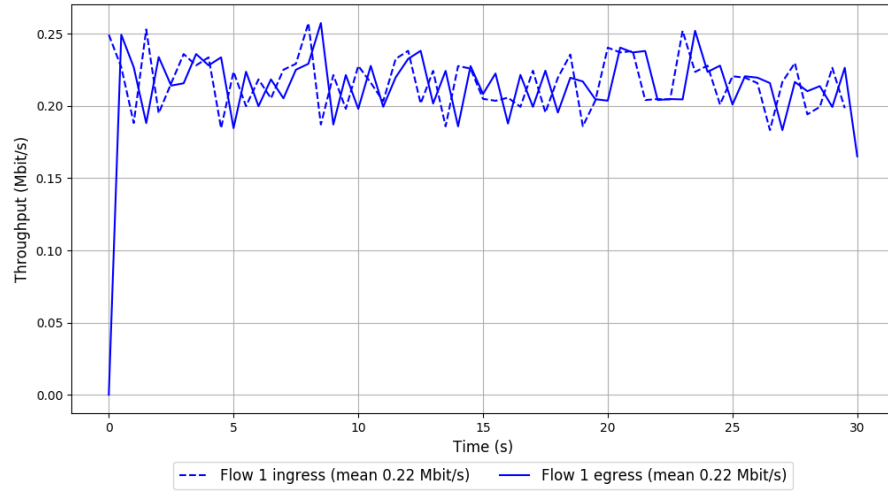
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.676 ms

Loss rate: 0.26%

Run 4: Report of SCReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-10-03 09:17:08

End at: 2019-10-03 09:17:38

Local clock offset: 5.192 ms

Remote clock offset: 0.284 ms

Below is generated by plot.py at 2019-10-03 09:46:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 16.530 ms

Loss rate: 0.12%

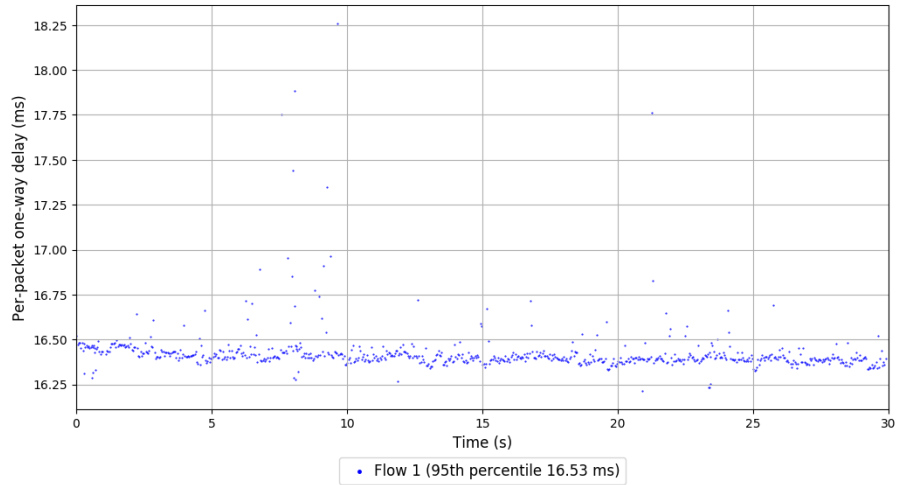
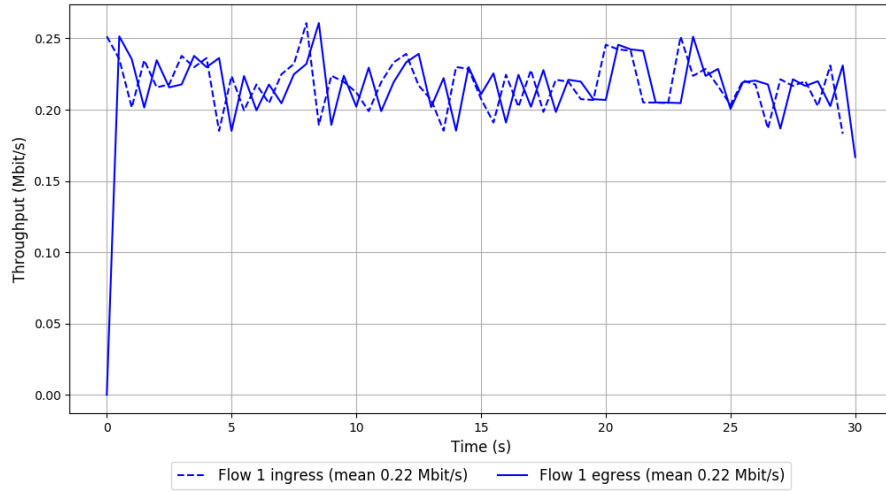
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 16.530 ms

Loss rate: 0.12%

Run 5: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-10-03 07:05:13

End at: 2019-10-03 07:05:43

Local clock offset: 5.394 ms

Remote clock offset: -1.839 ms

Below is generated by plot.py at 2019-10-03 09:46:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.82 Mbit/s

95th percentile per-packet one-way delay: 26.273 ms

Loss rate: 0.34%

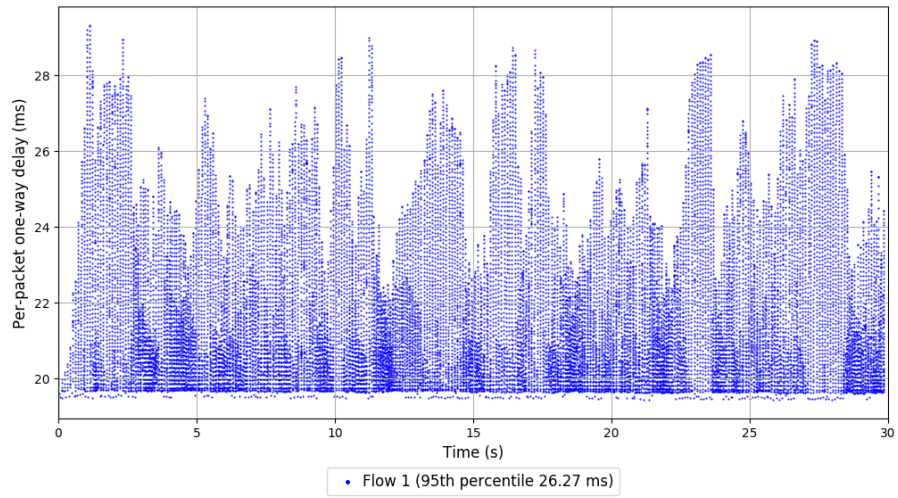
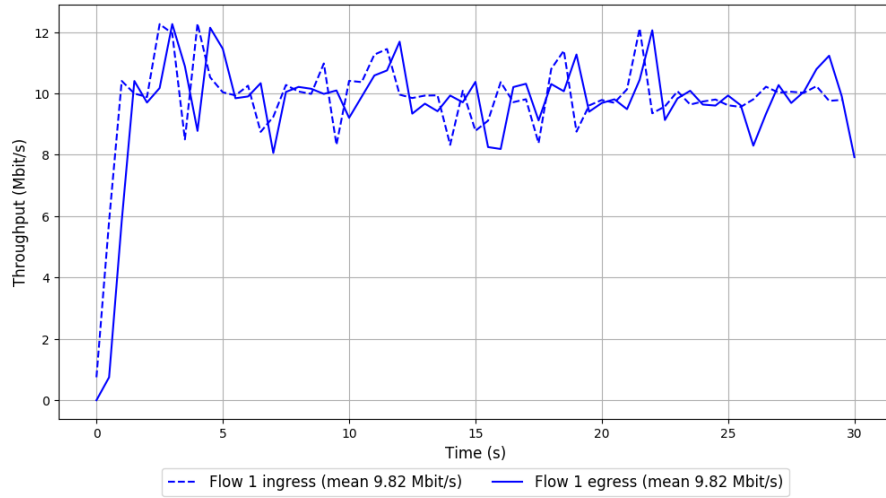
-- Flow 1:

Average throughput: 9.82 Mbit/s

95th percentile per-packet one-way delay: 26.273 ms

Loss rate: 0.34%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-10-03 07:39:22

End at: 2019-10-03 07:39:52

Local clock offset: 8.911 ms

Remote clock offset: -1.373 ms

Below is generated by plot.py at 2019-10-03 09:46:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.93 Mbit/s

95th percentile per-packet one-way delay: 23.904 ms

Loss rate: 0.17%

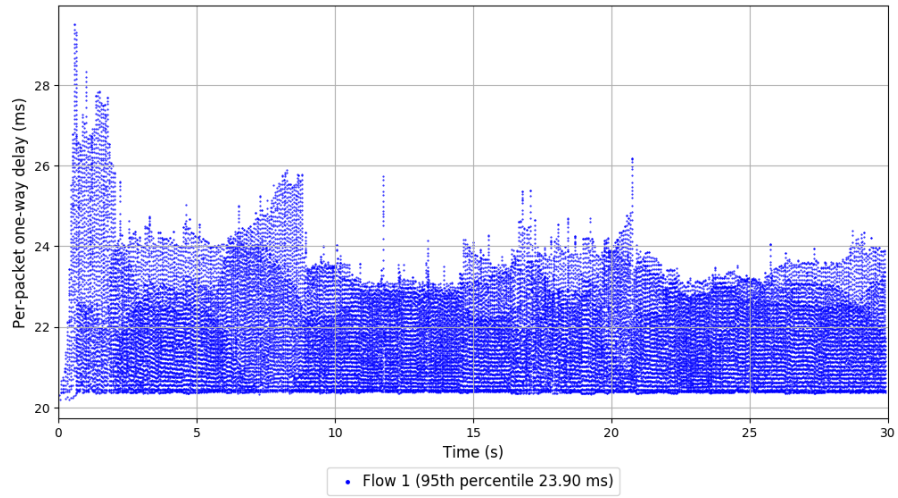
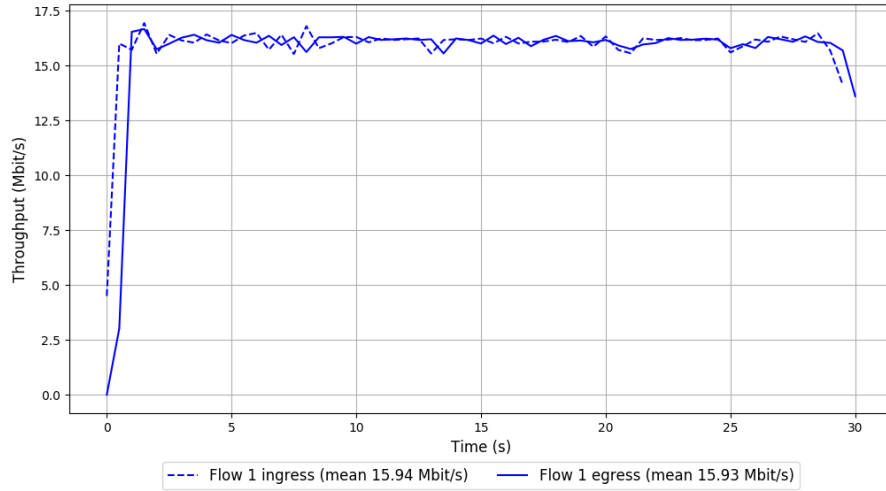
-- Flow 1:

Average throughput: 15.93 Mbit/s

95th percentile per-packet one-way delay: 23.904 ms

Loss rate: 0.17%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-10-03 08:12:53

End at: 2019-10-03 08:13:23

Local clock offset: 1.438 ms

Remote clock offset: -0.983 ms

Below is generated by plot.py at 2019-10-03 09:46:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.80 Mbit/s

95th percentile per-packet one-way delay: 23.360 ms

Loss rate: 0.25%

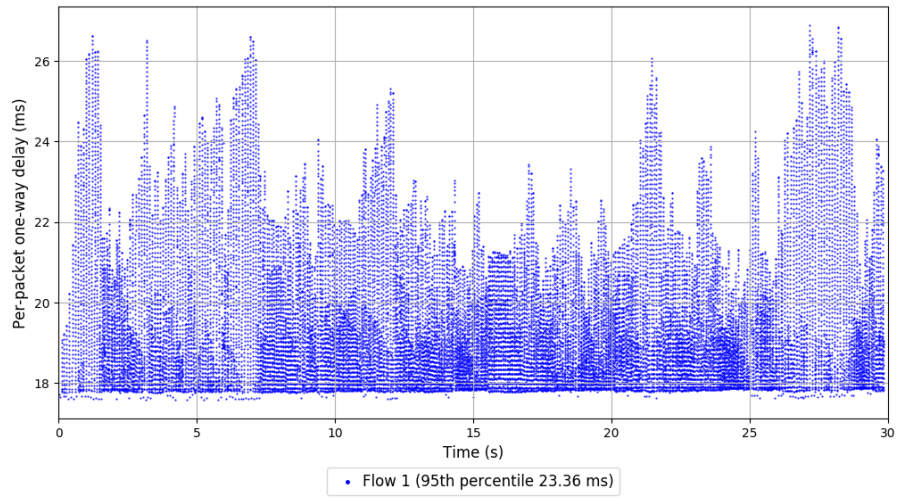
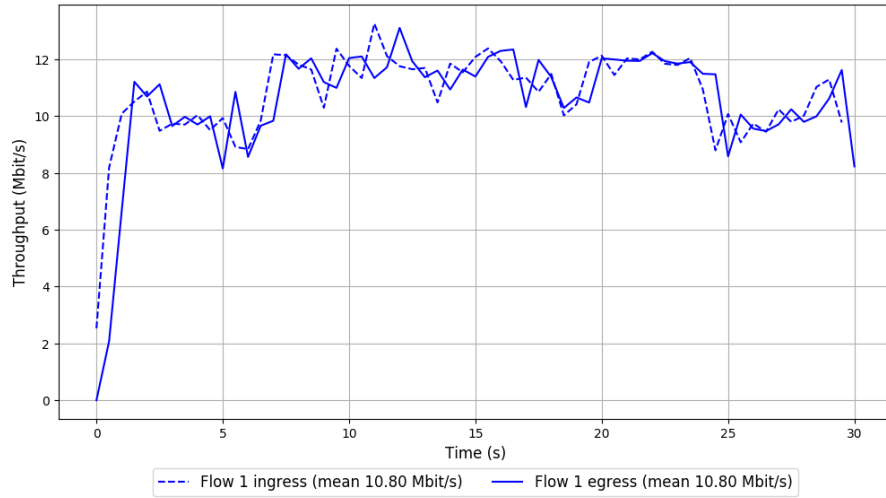
-- Flow 1:

Average throughput: 10.80 Mbit/s

95th percentile per-packet one-way delay: 23.360 ms

Loss rate: 0.25%

Run 3: Report of Sprout — Data Link

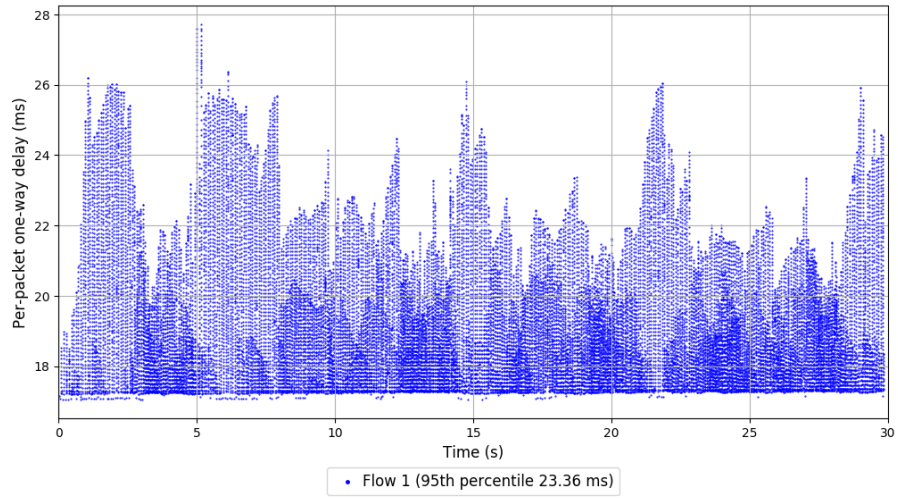
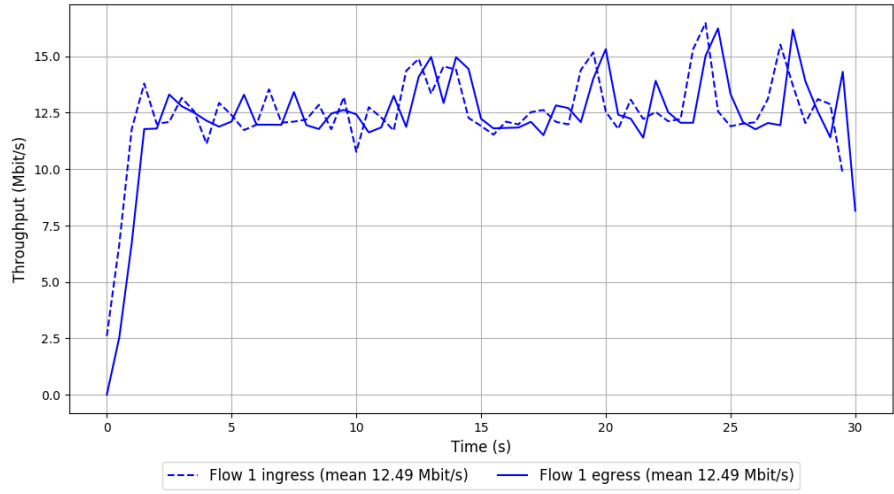


Run 4: Statistics of Sprout

Start at: 2019-10-03 08:43:08
End at: 2019-10-03 08:43:38
Local clock offset: -3.448 ms
Remote clock offset: -0.627 ms

Below is generated by plot.py at 2019-10-03 09:46:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.49 Mbit/s
95th percentile per-packet one-way delay: 23.365 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 12.49 Mbit/s
95th percentile per-packet one-way delay: 23.365 ms
Loss rate: 0.26%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-10-03 09:12:28

End at: 2019-10-03 09:12:58

Local clock offset: 6.033 ms

Remote clock offset: 0.924 ms

Below is generated by plot.py at 2019-10-03 09:46:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.99 Mbit/s

95th percentile per-packet one-way delay: 22.127 ms

Loss rate: 0.13%

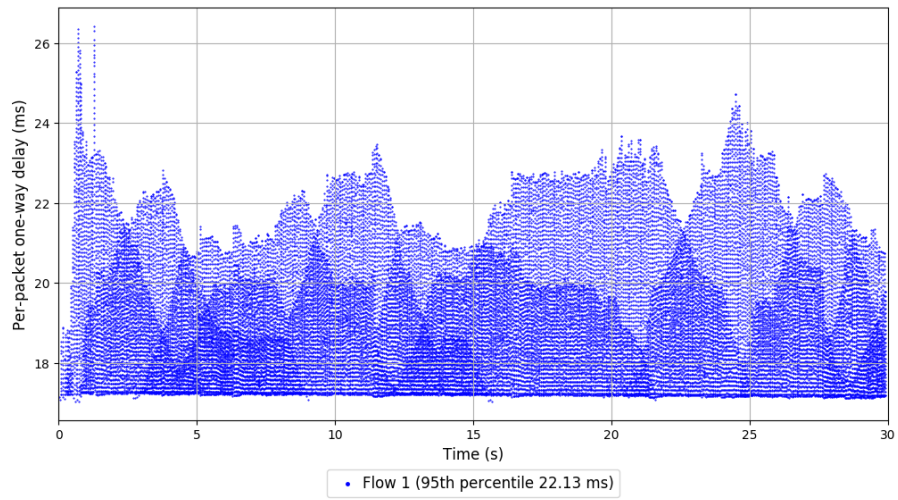
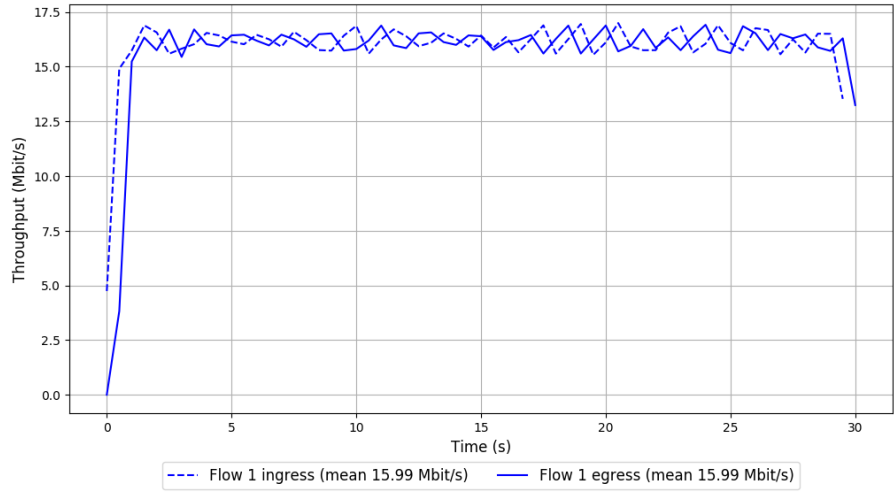
-- Flow 1:

Average throughput: 15.99 Mbit/s

95th percentile per-packet one-way delay: 22.127 ms

Loss rate: 0.13%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-10-03 06:58:43

End at: 2019-10-03 06:59:13

Local clock offset: 5.932 ms

Remote clock offset: -0.733 ms

Below is generated by plot.py at 2019-10-03 09:47:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.57 Mbit/s

95th percentile per-packet one-way delay: 26.161 ms

Loss rate: 0.13%

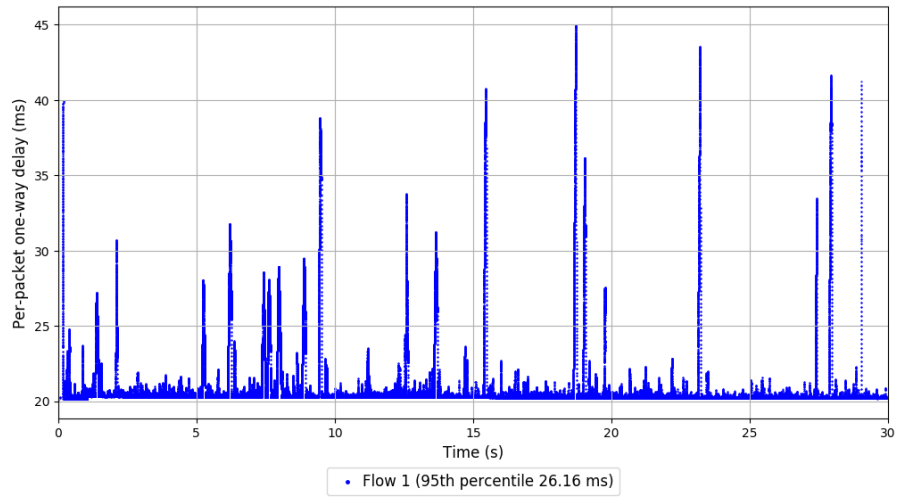
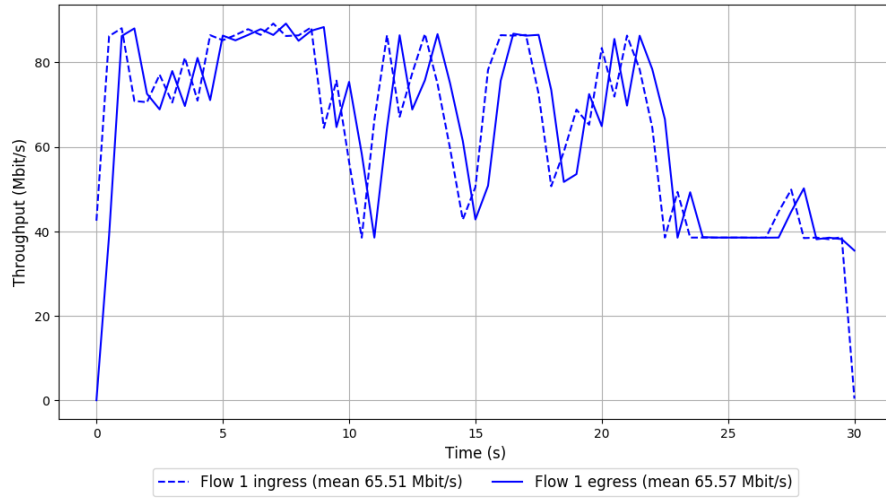
-- Flow 1:

Average throughput: 65.57 Mbit/s

95th percentile per-packet one-way delay: 26.161 ms

Loss rate: 0.13%

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

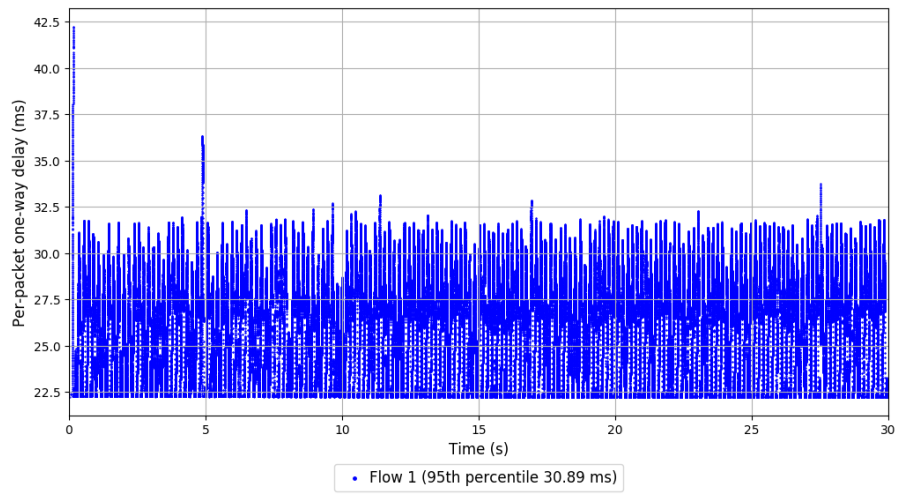
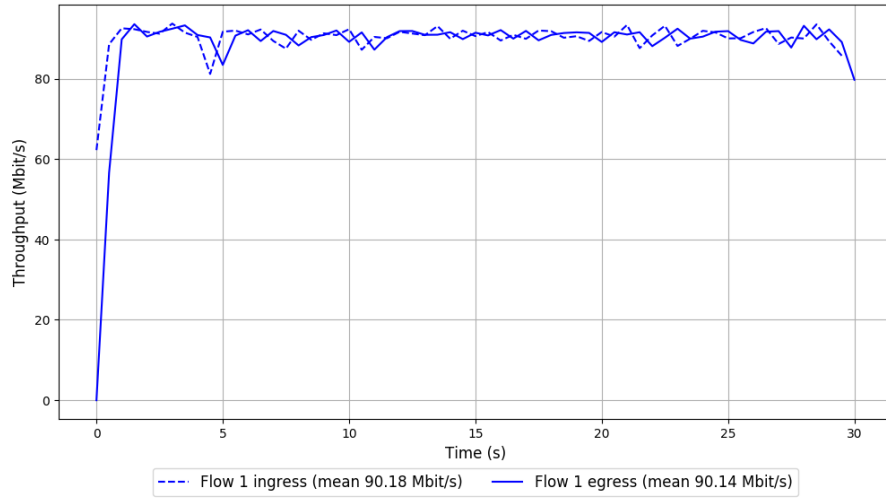


Run 2: Statistics of TaoVA-100x

Start at: 2019-10-03 07:32:33
End at: 2019-10-03 07:33:03
Local clock offset: 10.398 ms
Remote clock offset: -1.643 ms

Below is generated by plot.py at 2019-10-03 09:47:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.14 Mbit/s
95th percentile per-packet one-way delay: 30.887 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 90.14 Mbit/s
95th percentile per-packet one-way delay: 30.887 ms
Loss rate: 0.21%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-10-03 08:07:40

End at: 2019-10-03 08:08:10

Local clock offset: 7.465 ms

Remote clock offset: -0.071 ms

Below is generated by plot.py at 2019-10-03 09:47:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.73 Mbit/s

95th percentile per-packet one-way delay: 28.815 ms

Loss rate: 0.14%

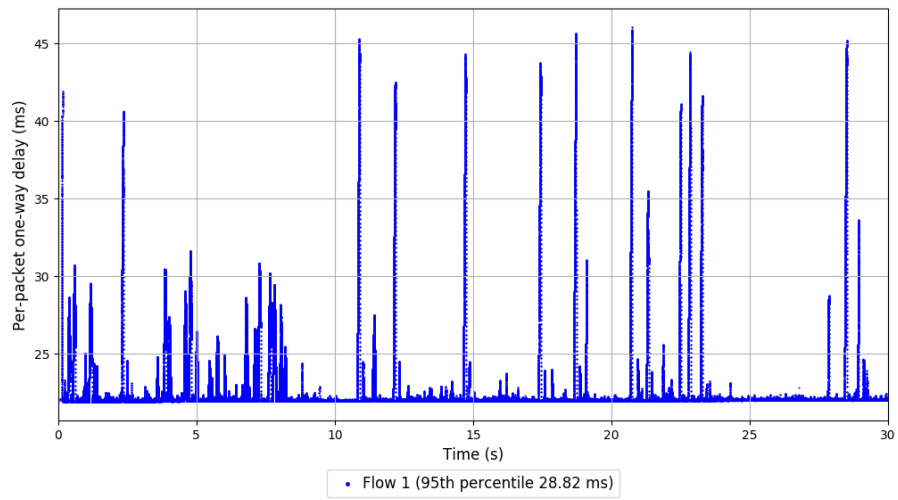
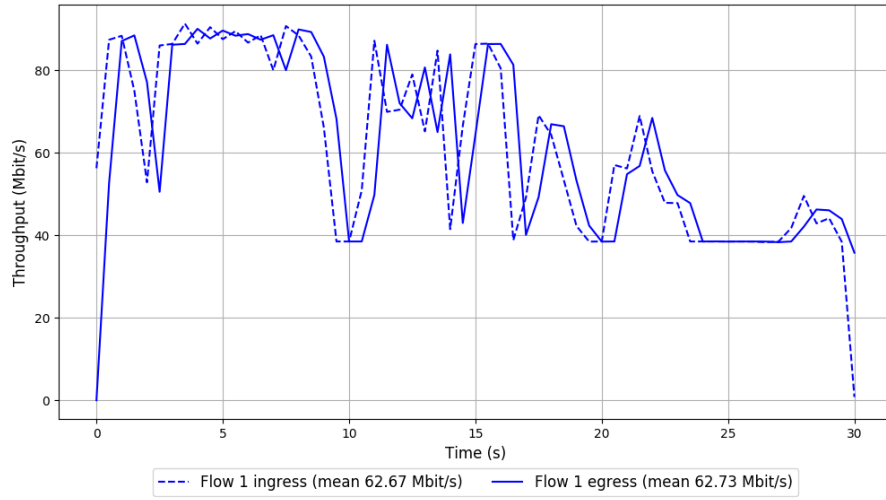
-- Flow 1:

Average throughput: 62.73 Mbit/s

95th percentile per-packet one-way delay: 28.815 ms

Loss rate: 0.14%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-10-03 08:37:37

End at: 2019-10-03 08:38:07

Local clock offset: -2.524 ms

Remote clock offset: 0.959 ms

Below is generated by plot.py at 2019-10-03 09:47:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.05 Mbit/s

95th percentile per-packet one-way delay: 20.448 ms

Loss rate: 0.17%

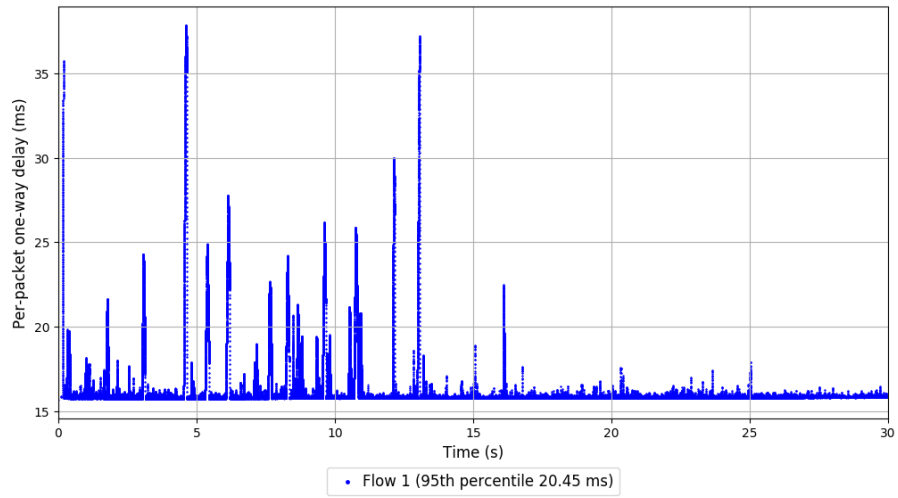
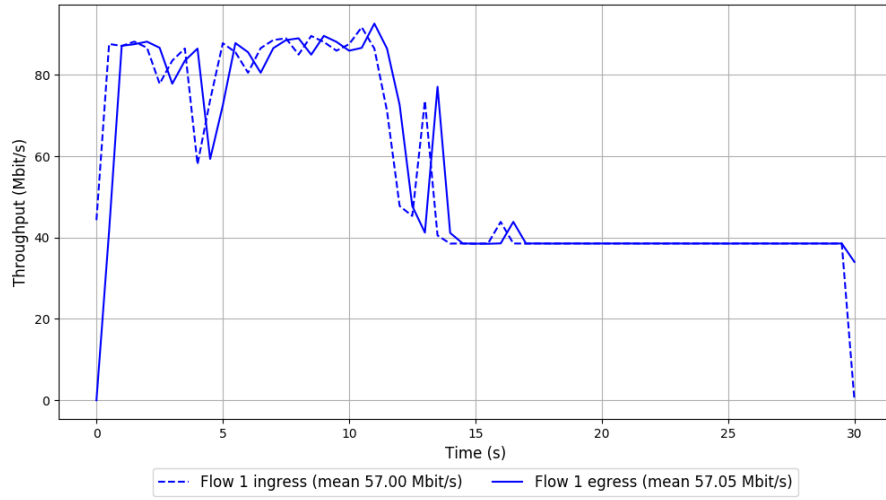
-- Flow 1:

Average throughput: 57.05 Mbit/s

95th percentile per-packet one-way delay: 20.448 ms

Loss rate: 0.17%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-10-03 09:07:12

End at: 2019-10-03 09:07:42

Local clock offset: 3.64 ms

Remote clock offset: 0.505 ms

Below is generated by plot.py at 2019-10-03 09:47:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.95 Mbit/s

95th percentile per-packet one-way delay: 24.897 ms

Loss rate: 0.15%

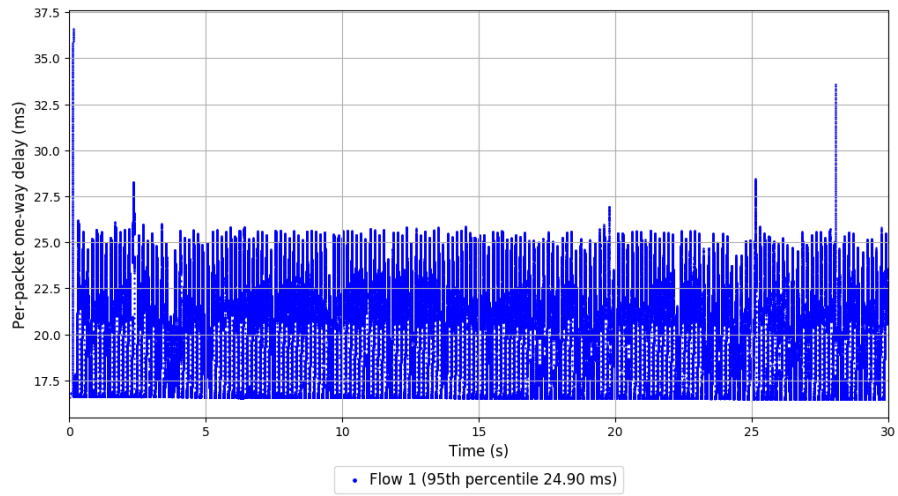
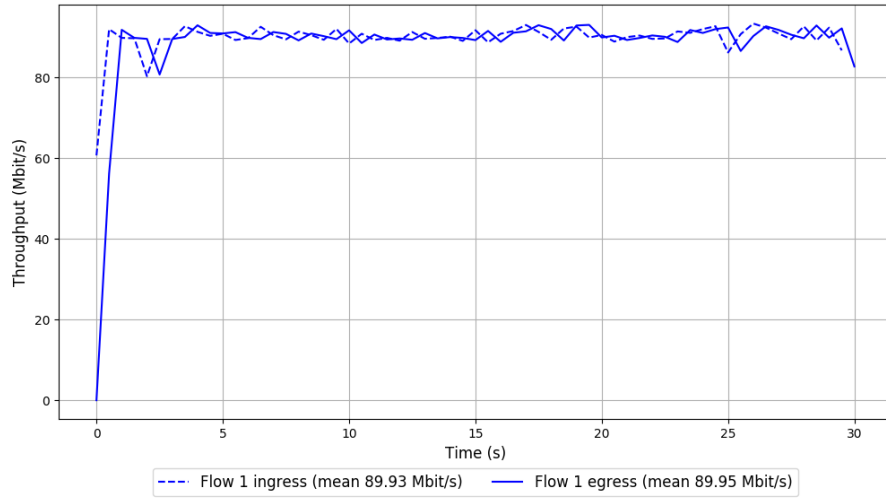
-- Flow 1:

Average throughput: 89.95 Mbit/s

95th percentile per-packet one-way delay: 24.897 ms

Loss rate: 0.15%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-10-03 06:56:02
End at: 2019-10-03 06:56:32
Local clock offset: 2.404 ms
Remote clock offset: -2.483 ms

Below is generated by plot.py at 2019-10-03 09:47:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.95 Mbit/s

95th percentile per-packet one-way delay: 19.576 ms

Loss rate: 0.10%

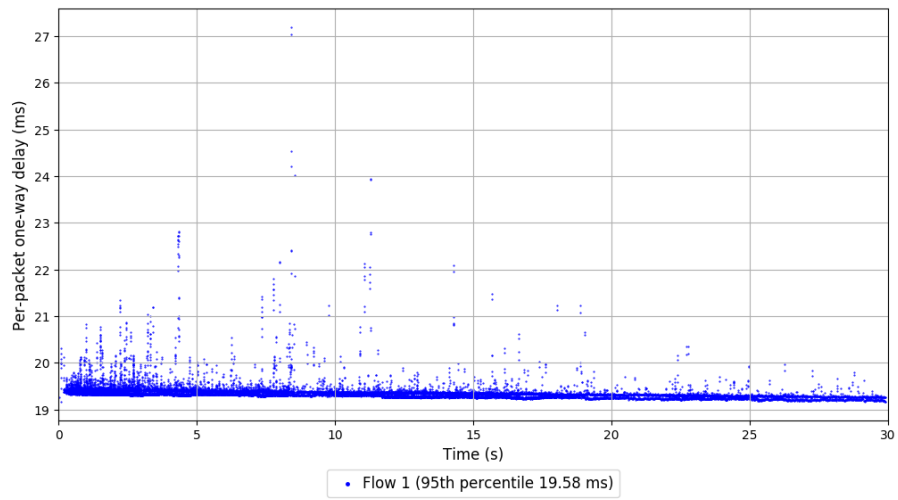
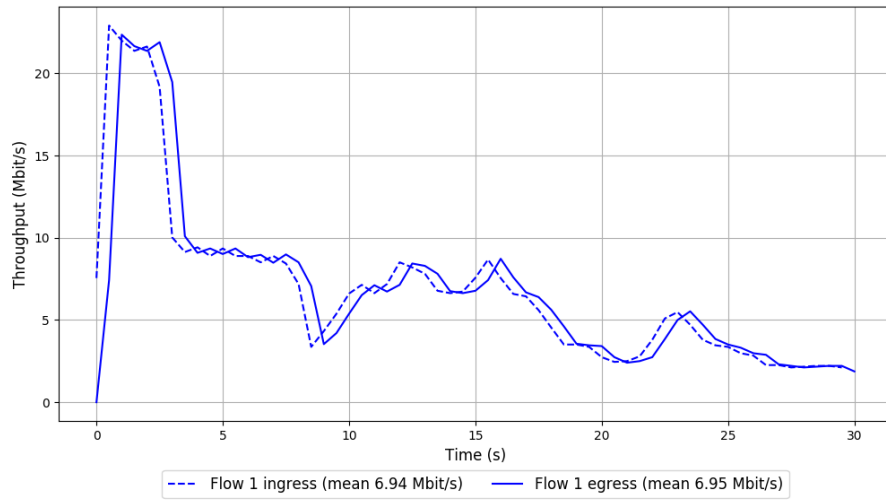
-- Flow 1:

Average throughput: 6.95 Mbit/s

95th percentile per-packet one-way delay: 19.576 ms

Loss rate: 0.10%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-10-03 07:29:34

End at: 2019-10-03 07:30:04

Local clock offset: 7.756 ms

Remote clock offset: 0.228 ms

Below is generated by plot.py at 2019-10-03 09:47:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.27 Mbit/s

95th percentile per-packet one-way delay: 20.283 ms

Loss rate: 0.18%

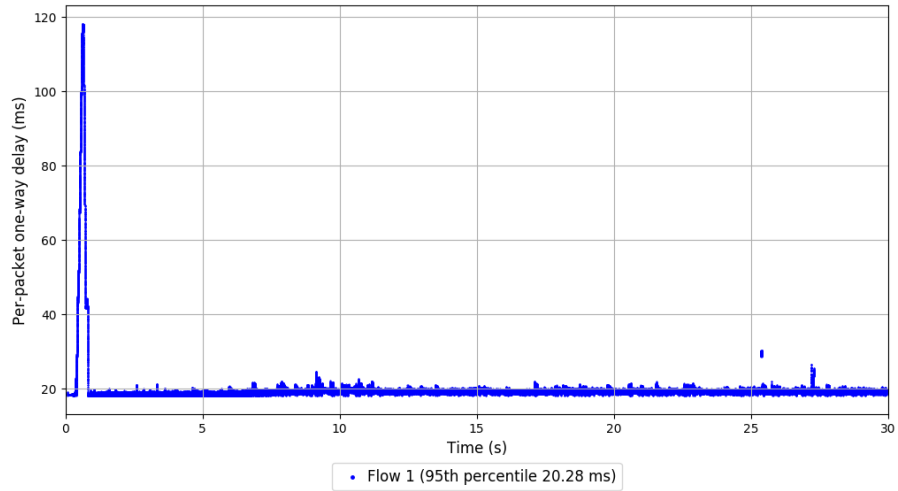
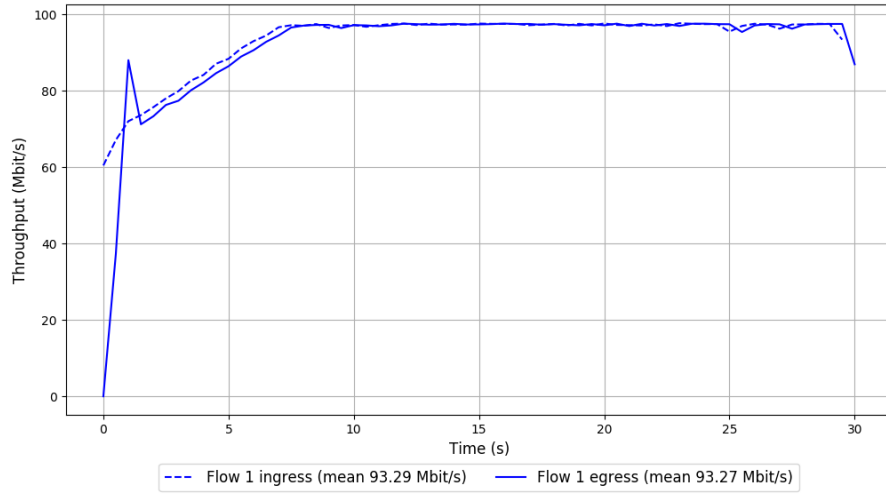
-- Flow 1:

Average throughput: 93.27 Mbit/s

95th percentile per-packet one-way delay: 20.283 ms

Loss rate: 0.18%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-10-03 08:05:14

End at: 2019-10-03 08:05:44

Local clock offset: 2.572 ms

Remote clock offset: -1.118 ms

Below is generated by plot.py at 2019-10-03 09:47:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.40 Mbit/s

95th percentile per-packet one-way delay: 18.105 ms

Loss rate: 0.14%

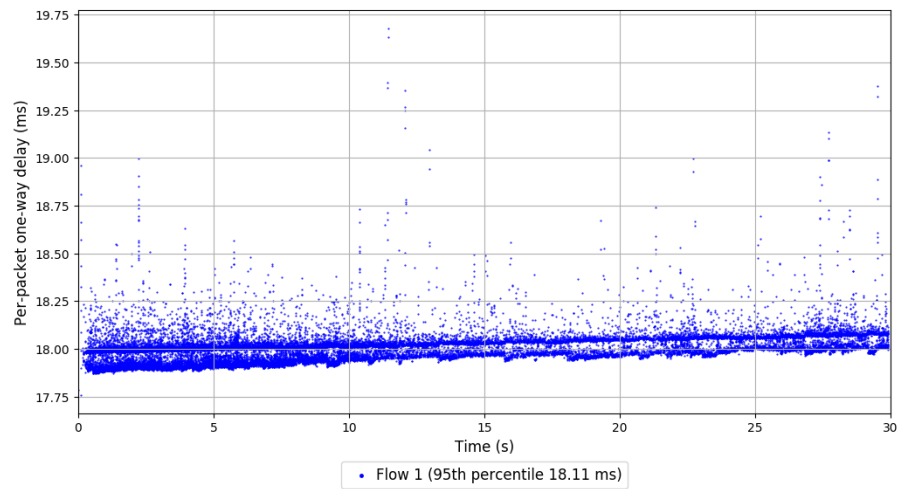
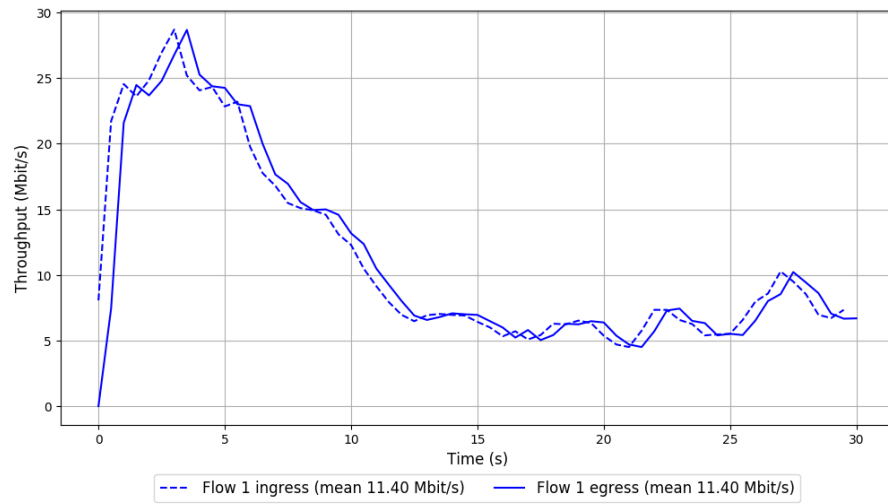
-- Flow 1:

Average throughput: 11.40 Mbit/s

95th percentile per-packet one-way delay: 18.105 ms

Loss rate: 0.14%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-10-03 08:35:14

End at: 2019-10-03 08:35:44

Local clock offset: 0.337 ms

Remote clock offset: -1.139 ms

Below is generated by plot.py at 2019-10-03 09:47:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.23 Mbit/s

95th percentile per-packet one-way delay: 25.365 ms

Loss rate: 0.02%

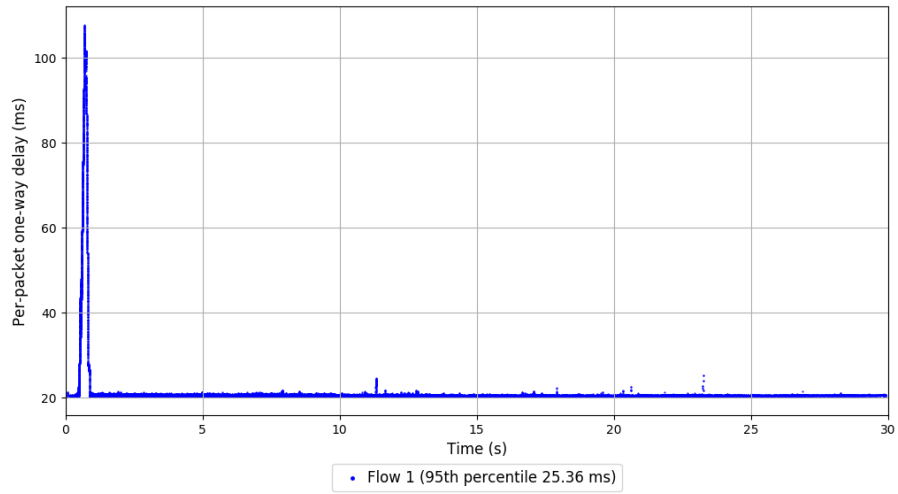
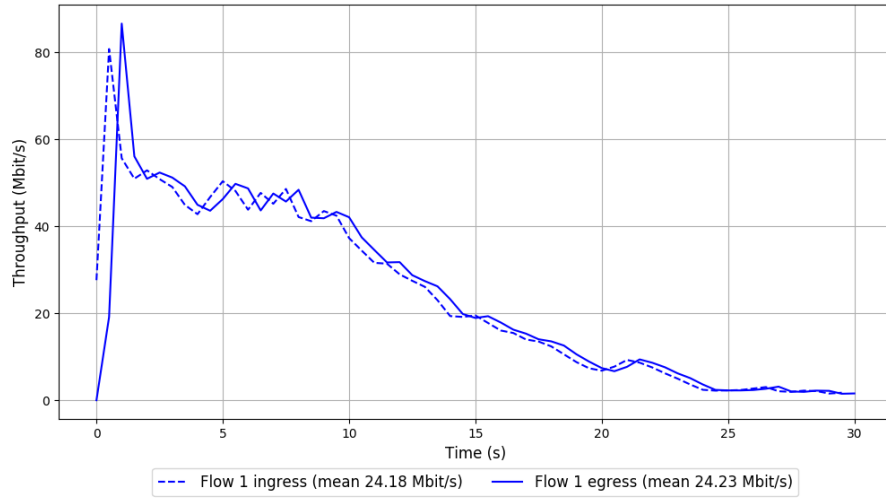
-- Flow 1:

Average throughput: 24.23 Mbit/s

95th percentile per-packet one-way delay: 25.365 ms

Loss rate: 0.02%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-10-03 09:04:44

End at: 2019-10-03 09:05:14

Local clock offset: 0.161 ms

Remote clock offset: -3.053 ms

Below is generated by plot.py at 2019-10-03 09:47:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.18 Mbit/s

95th percentile per-packet one-way delay: 18.780 ms

Loss rate: 0.19%

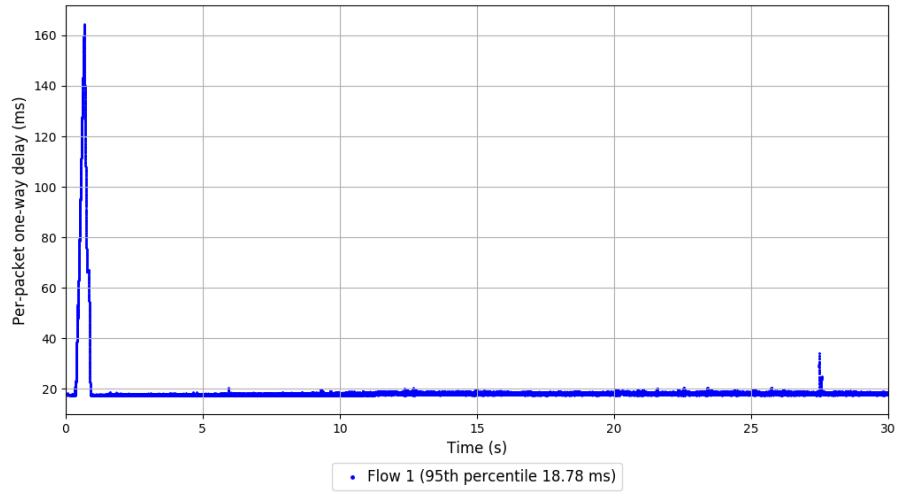
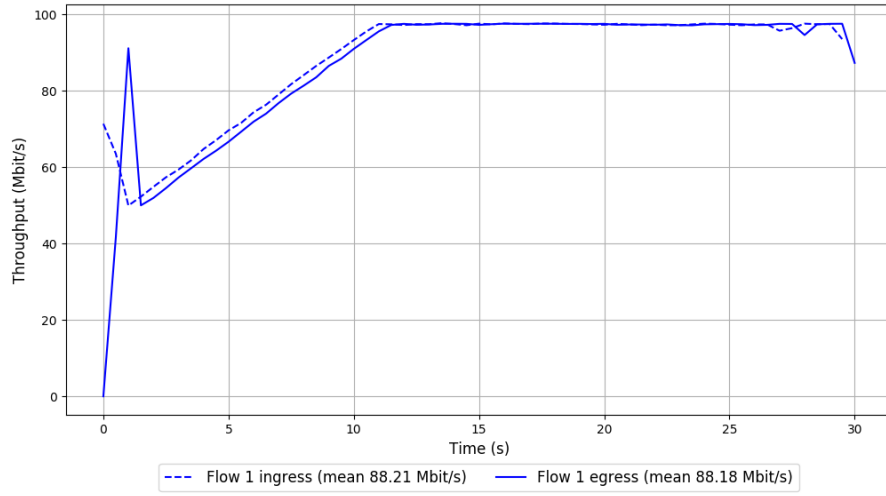
-- Flow 1:

Average throughput: 88.18 Mbit/s

95th percentile per-packet one-way delay: 18.780 ms

Loss rate: 0.19%

Run 5: Report of TCP Vegas — Data Link

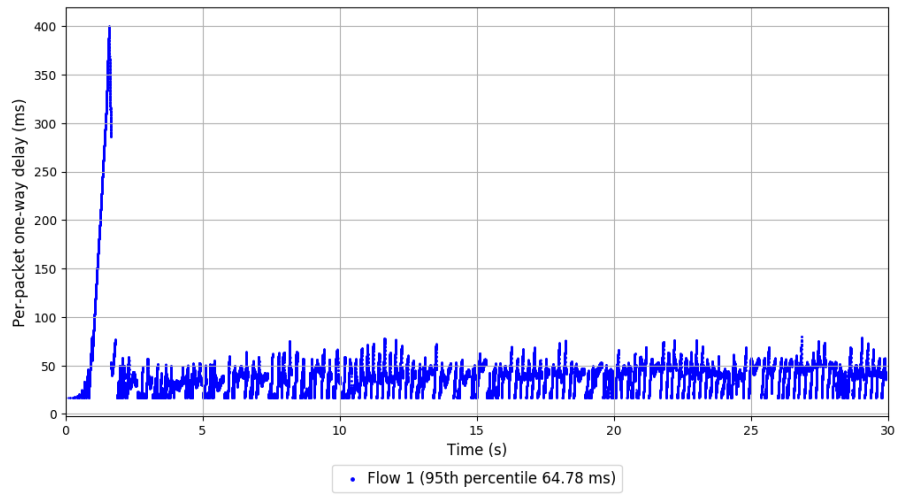
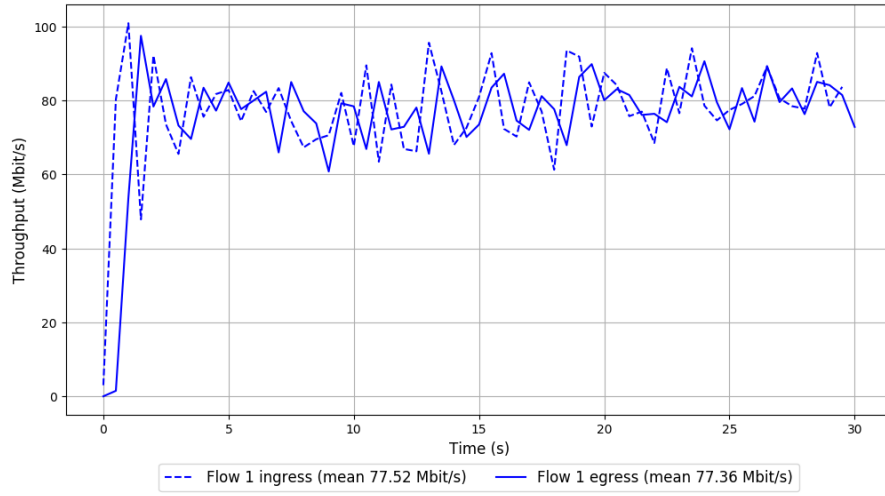


Run 1: Statistics of Verus

Start at: 2019-10-03 07:01:40
End at: 2019-10-03 07:02:10
Local clock offset: 2.231 ms
Remote clock offset: -1.714 ms

Below is generated by plot.py at 2019-10-03 09:47:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.36 Mbit/s
95th percentile per-packet one-way delay: 64.780 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 77.36 Mbit/s
95th percentile per-packet one-way delay: 64.780 ms
Loss rate: 0.48%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-10-03 07:35:58

End at: 2019-10-03 07:36:28

Local clock offset: 5.793 ms

Remote clock offset: -0.343 ms

Below is generated by plot.py at 2019-10-03 09:48:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.62 Mbit/s

95th percentile per-packet one-way delay: 51.503 ms

Loss rate: 0.29%

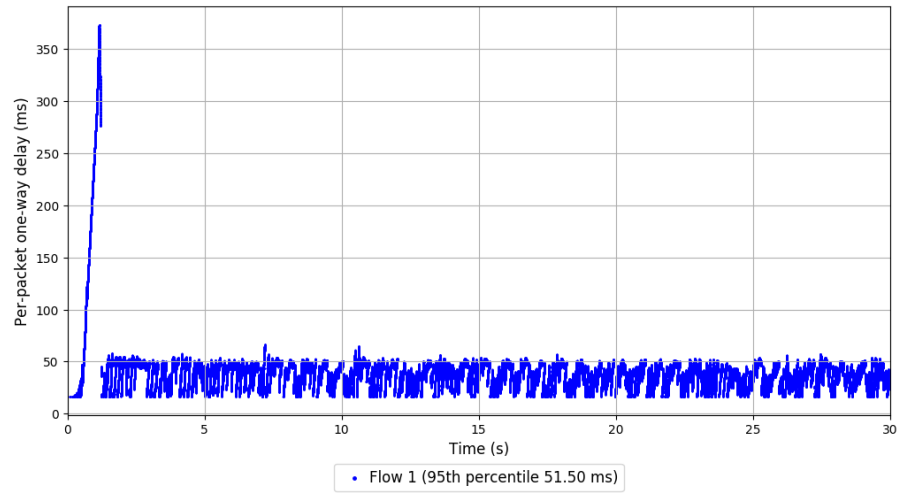
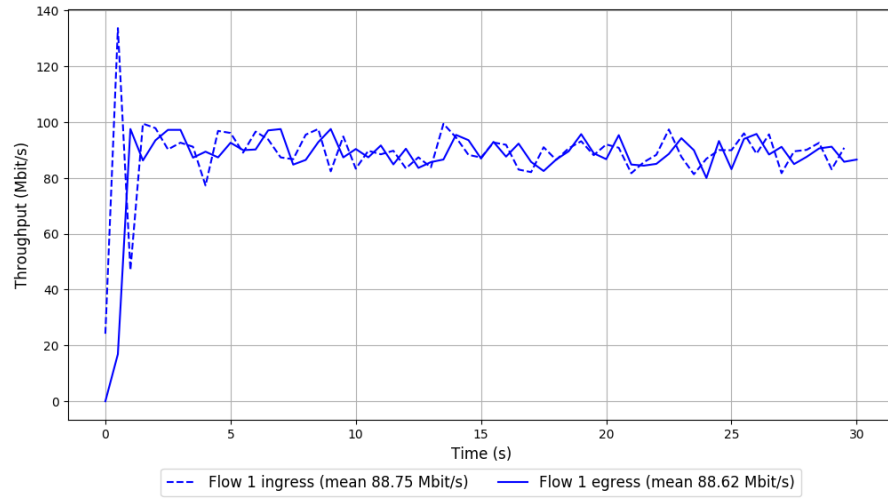
-- Flow 1:

Average throughput: 88.62 Mbit/s

95th percentile per-packet one-way delay: 51.503 ms

Loss rate: 0.29%

Run 2: Report of Verus — Data Link

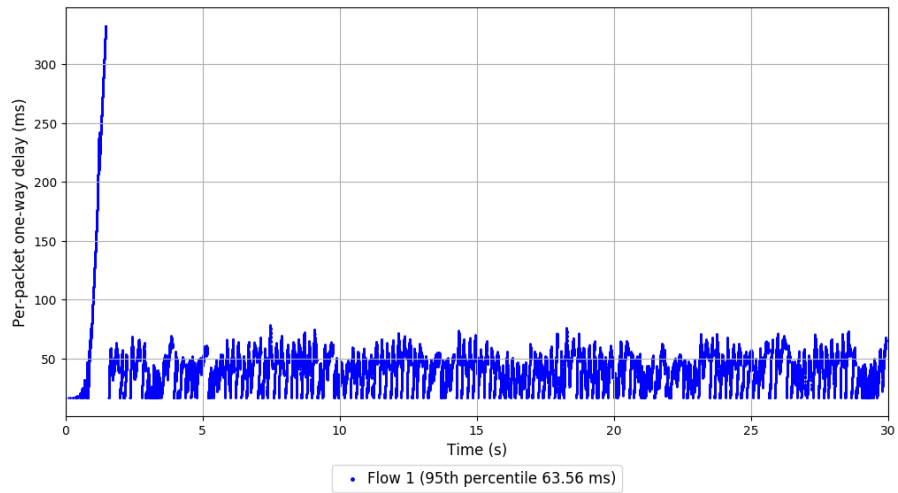
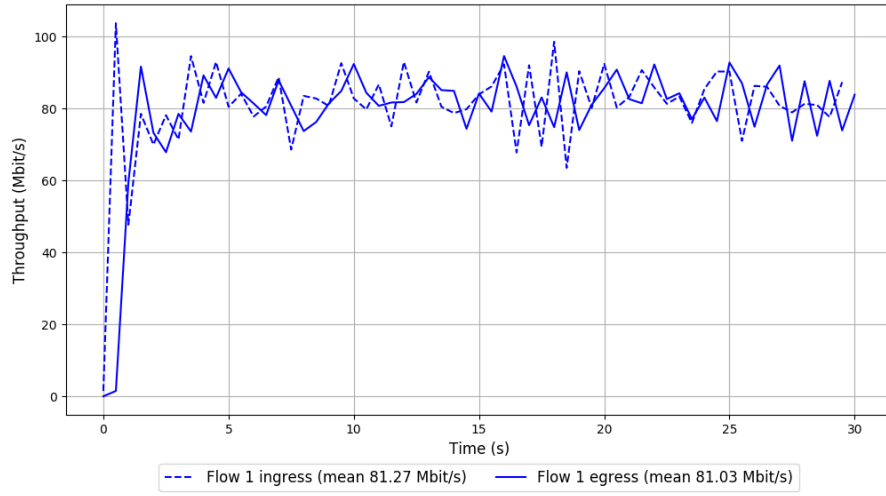


Run 3: Statistics of Verus

Start at: 2019-10-03 08:10:07
End at: 2019-10-03 08:10:37
Local clock offset: 1.251 ms
Remote clock offset: -0.709 ms

Below is generated by plot.py at 2019-10-03 09:48:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 81.03 Mbit/s
95th percentile per-packet one-way delay: 63.561 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 81.03 Mbit/s
95th percentile per-packet one-way delay: 63.561 ms
Loss rate: 0.34%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-10-03 08:40:28

End at: 2019-10-03 08:40:58

Local clock offset: -2.359 ms

Remote clock offset: 0.316 ms

Below is generated by plot.py at 2019-10-03 09:48:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.60 Mbit/s

95th percentile per-packet one-way delay: 60.867 ms

Loss rate: 0.30%

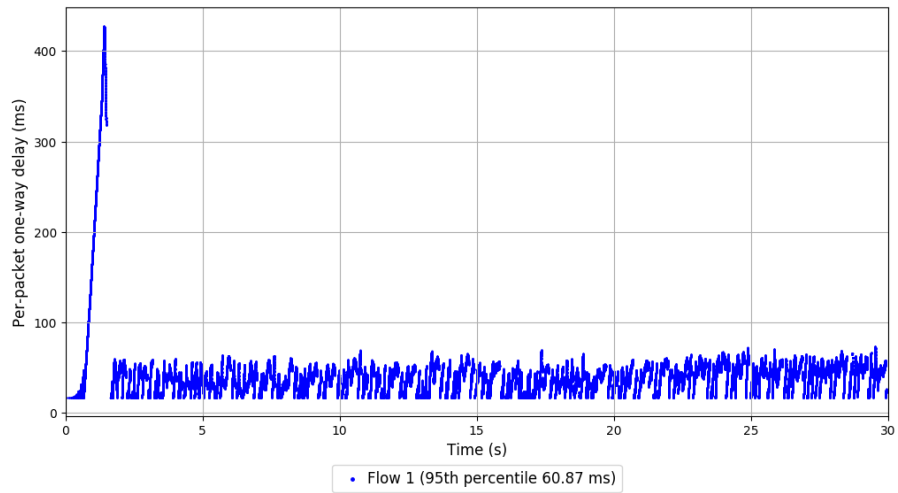
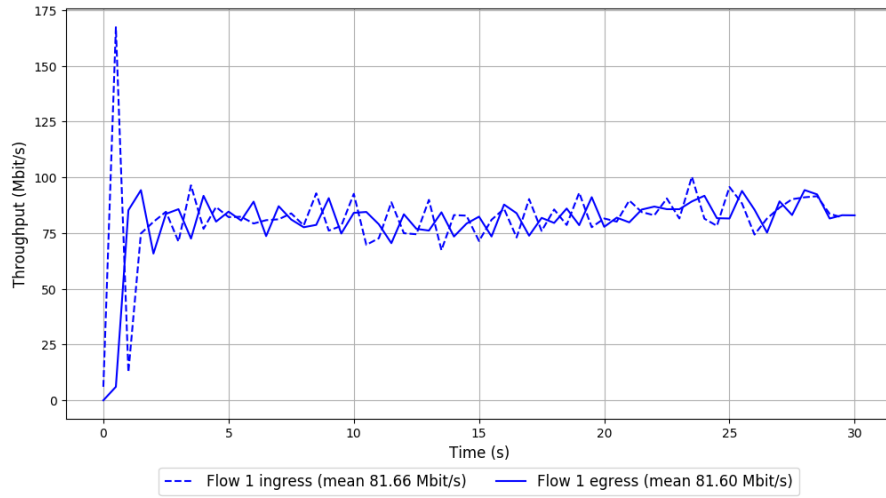
-- Flow 1:

Average throughput: 81.60 Mbit/s

95th percentile per-packet one-way delay: 60.867 ms

Loss rate: 0.30%

Run 4: Report of Verus — Data Link

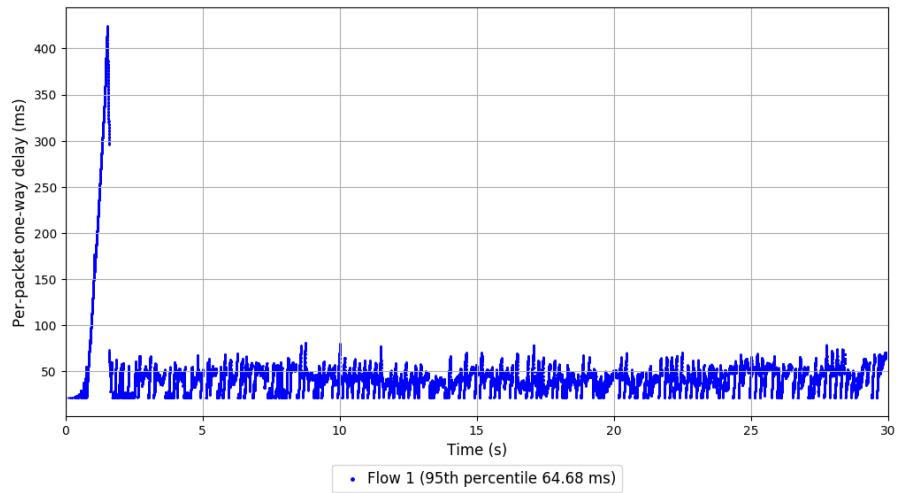
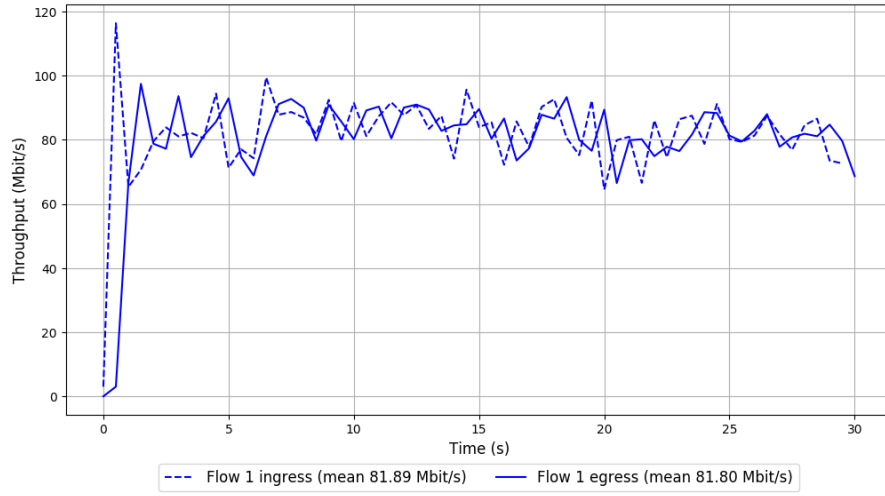


Run 5: Statistics of Verus

Start at: 2019-10-03 09:09:50
End at: 2019-10-03 09:10:20
Local clock offset: 8.092 ms
Remote clock offset: -0.859 ms

Below is generated by plot.py at 2019-10-03 09:48:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 81.80 Mbit/s
95th percentile per-packet one-way delay: 64.678 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 81.80 Mbit/s
95th percentile per-packet one-way delay: 64.678 ms
Loss rate: 0.27%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-10-03 07:11:54

End at: 2019-10-03 07:12:24

Local clock offset: 5.158 ms

Remote clock offset: -2.19 ms

Below is generated by plot.py at 2019-10-03 09:48:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.14 Mbit/s

95th percentile per-packet one-way delay: 19.253 ms

Loss rate: 0.27%

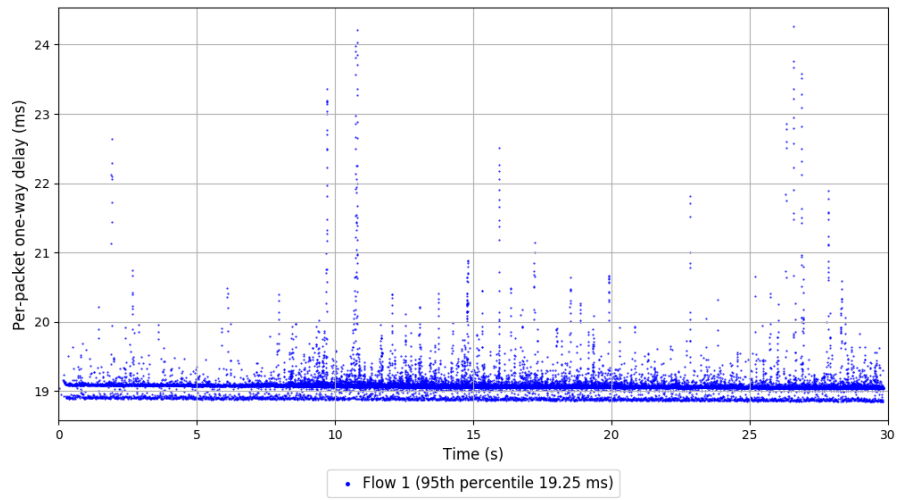
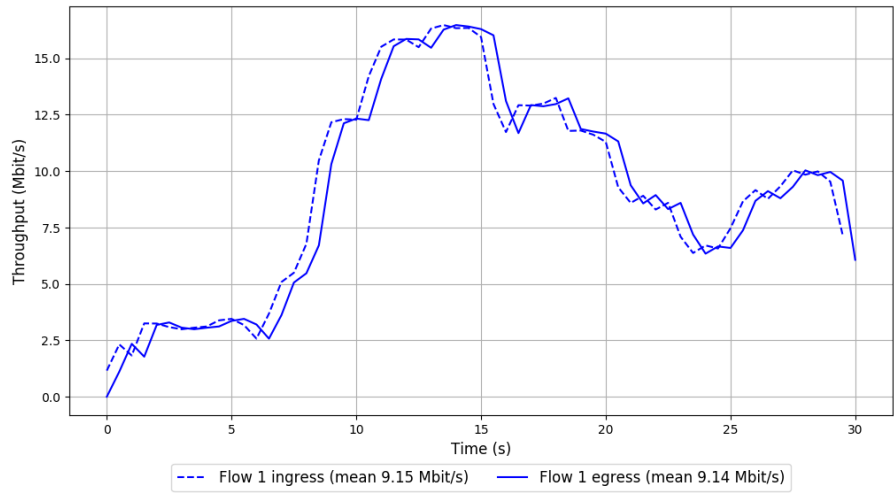
-- Flow 1:

Average throughput: 9.14 Mbit/s

95th percentile per-packet one-way delay: 19.253 ms

Loss rate: 0.27%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-10-03 07:45:58

End at: 2019-10-03 07:46:28

Local clock offset: 3.795 ms

Remote clock offset: -0.132 ms

Below is generated by plot.py at 2019-10-03 09:48:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.41 Mbit/s

95th percentile per-packet one-way delay: 14.791 ms

Loss rate: 0.17%

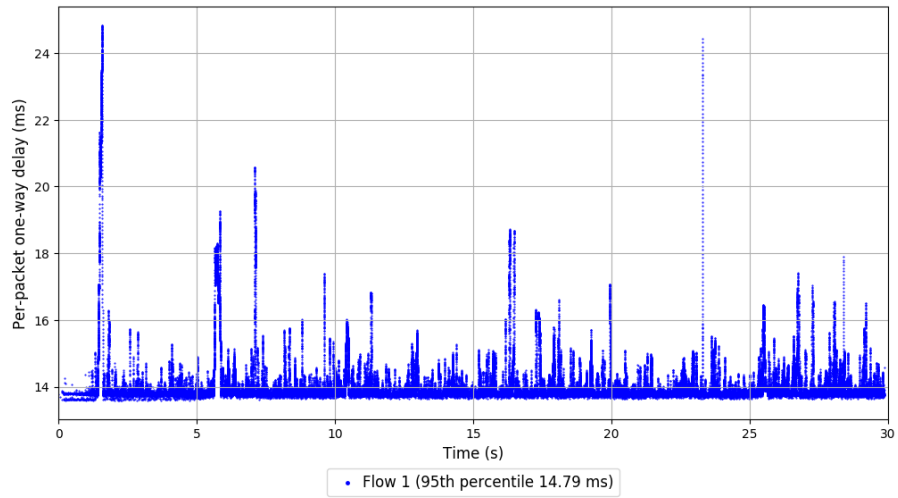
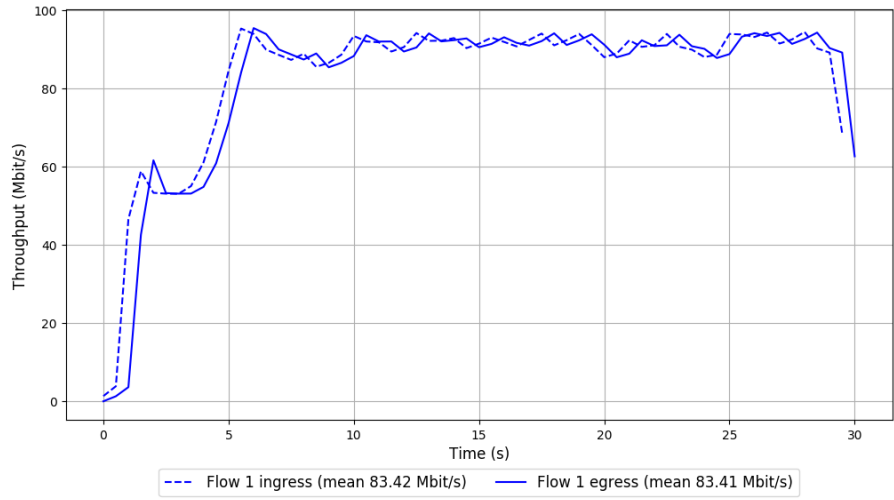
-- Flow 1:

Average throughput: 83.41 Mbit/s

95th percentile per-packet one-way delay: 14.791 ms

Loss rate: 0.17%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-10-03 08:18:53

End at: 2019-10-03 08:19:23

Local clock offset: 3.379 ms

Remote clock offset: -1.252 ms

Below is generated by plot.py at 2019-10-03 09:48:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.14 Mbit/s

95th percentile per-packet one-way delay: 20.503 ms

Loss rate: 0.34%

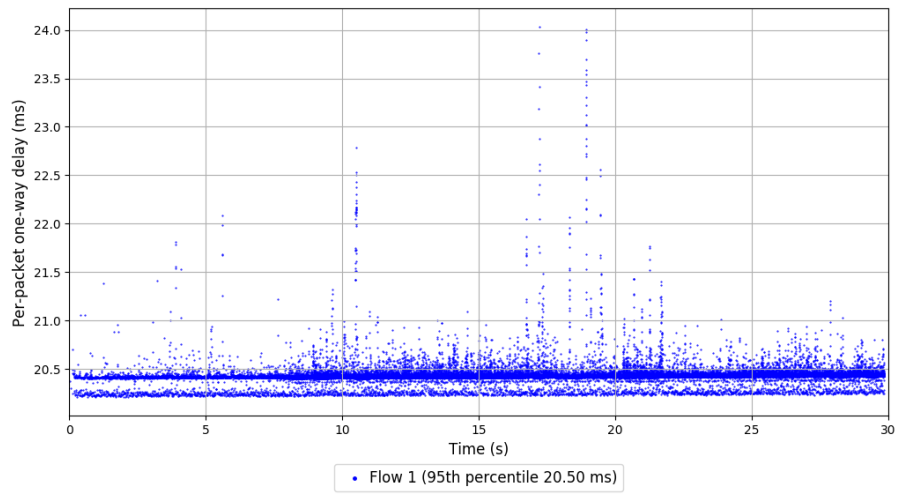
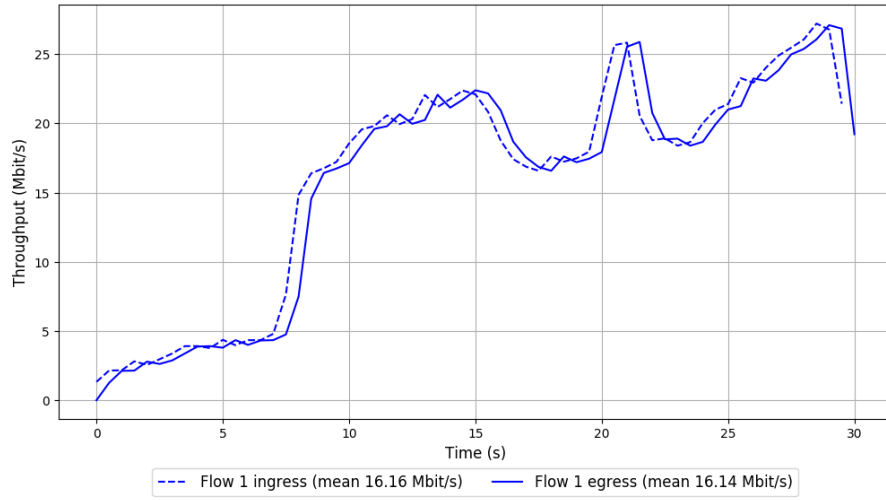
-- Flow 1:

Average throughput: 16.14 Mbit/s

95th percentile per-packet one-way delay: 20.503 ms

Loss rate: 0.34%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-10-03 08:49:11

End at: 2019-10-03 08:49:41

Local clock offset: 1.703 ms

Remote clock offset: 0.346 ms

Below is generated by plot.py at 2019-10-03 09:48:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.72 Mbit/s

95th percentile per-packet one-way delay: 29.739 ms

Loss rate: 0.32%

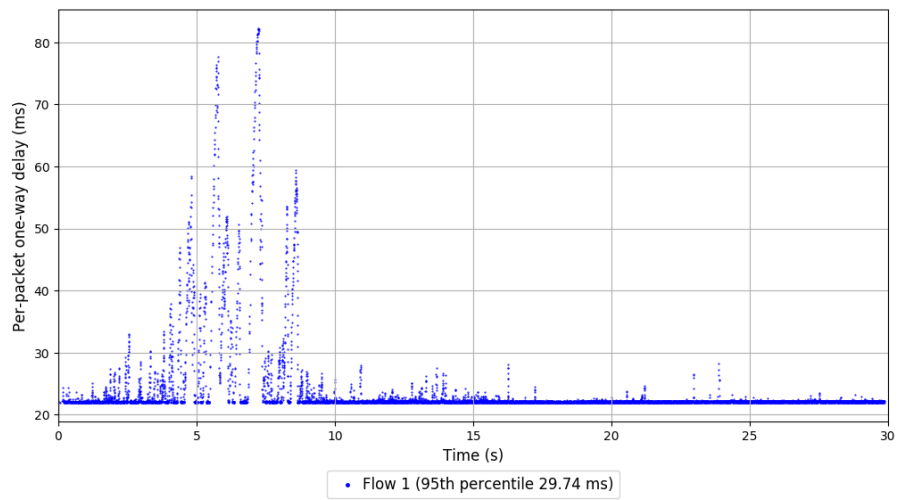
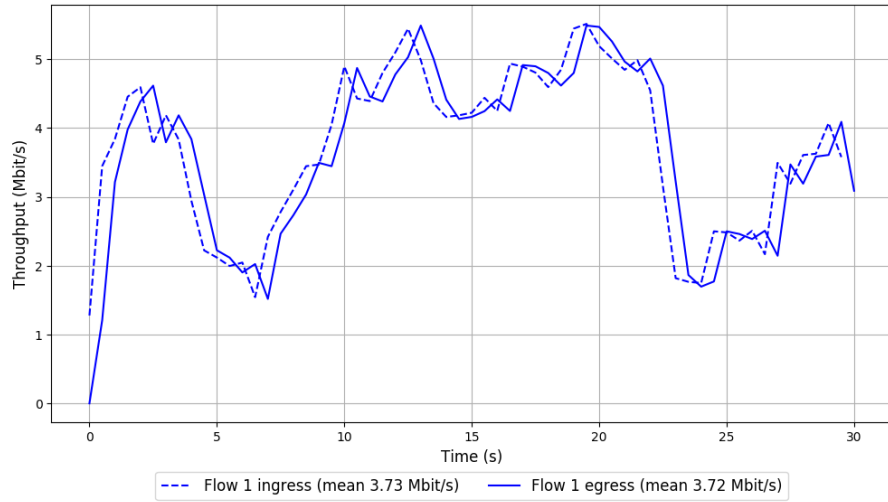
-- Flow 1:

Average throughput: 3.72 Mbit/s

95th percentile per-packet one-way delay: 29.739 ms

Loss rate: 0.32%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-10-03 09:18:13

End at: 2019-10-03 09:18:44

Local clock offset: 10.582 ms

Remote clock offset: -0.173 ms

Below is generated by plot.py at 2019-10-03 09:48:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.44 Mbit/s

95th percentile per-packet one-way delay: 23.131 ms

Loss rate: 0.18%

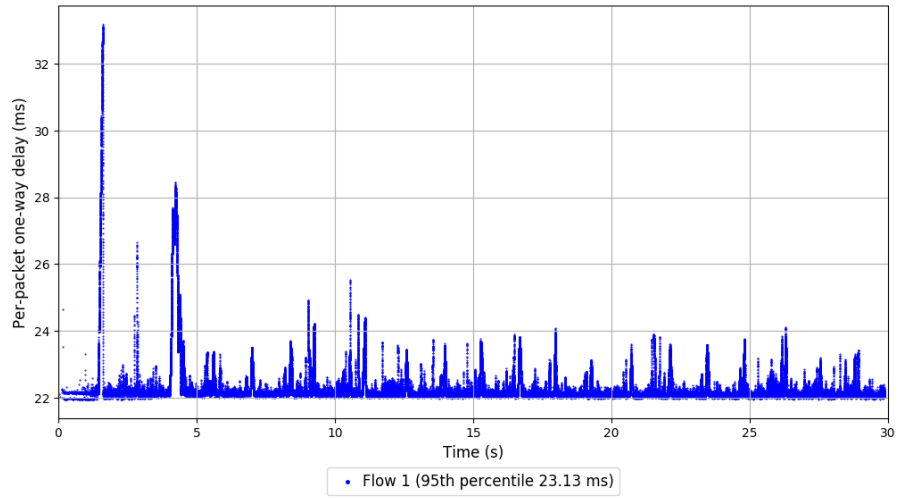
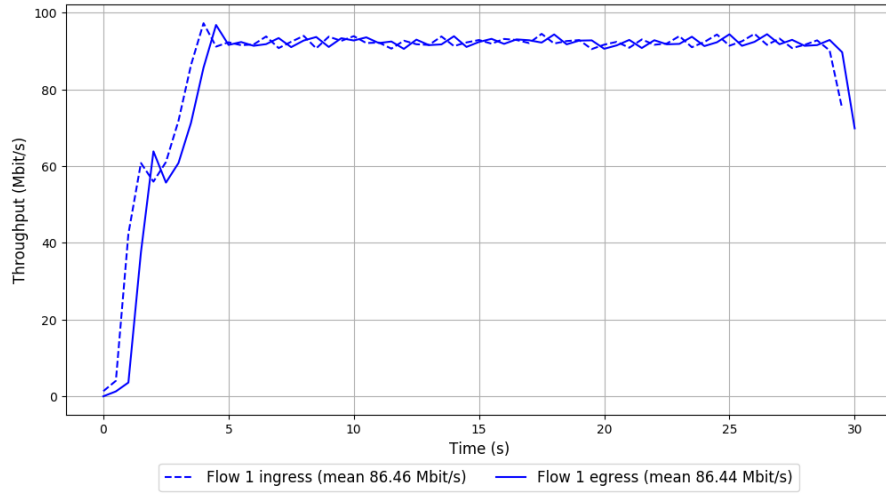
-- Flow 1:

Average throughput: 86.44 Mbit/s

95th percentile per-packet one-way delay: 23.131 ms

Loss rate: 0.18%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-10-03 07:25:28

End at: 2019-10-03 07:25:58

Local clock offset: 4.959 ms

Remote clock offset: -0.536 ms

Below is generated by plot.py at 2019-10-03 09:48:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 17.049 ms

Loss rate: 0.19%

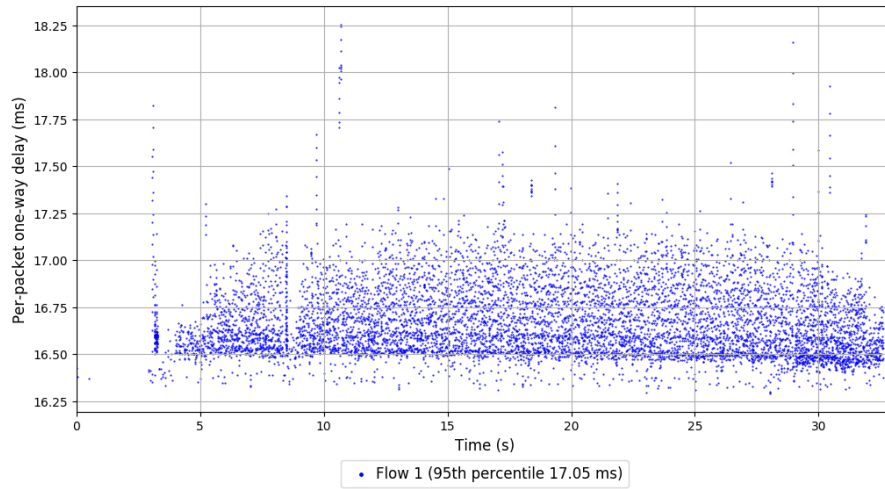
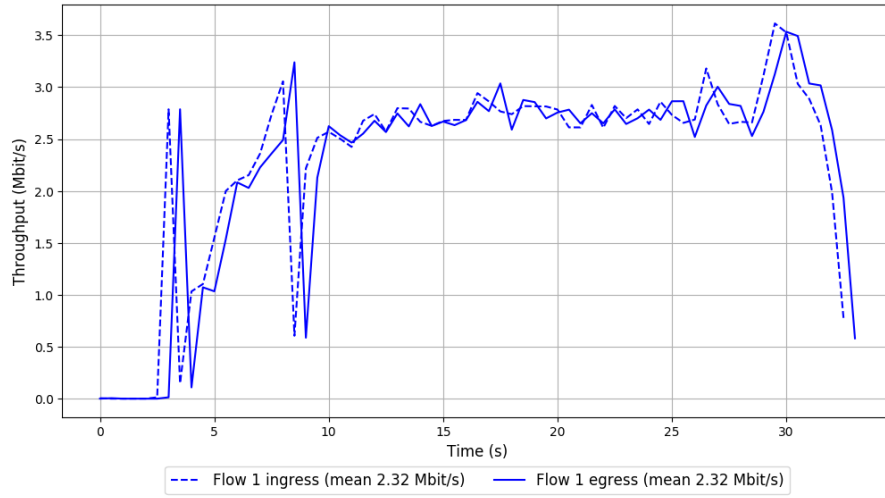
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 17.049 ms

Loss rate: 0.19%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-10-03 08:01:32

End at: 2019-10-03 08:02:02

Local clock offset: 3.708 ms

Remote clock offset: -0.053 ms

Below is generated by plot.py at 2019-10-03 09:48:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 17.498 ms

Loss rate: 0.24%

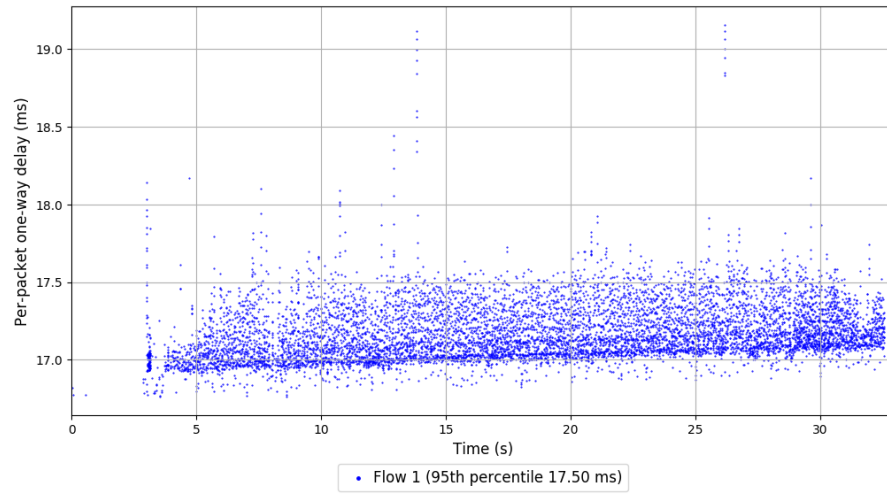
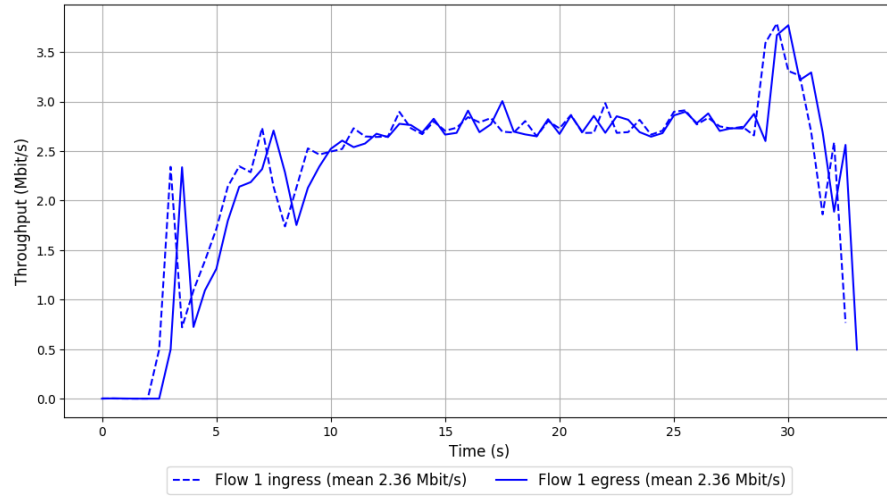
-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 17.498 ms

Loss rate: 0.24%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-10-03 08:31:42

End at: 2019-10-03 08:32:12

Local clock offset: 3.041 ms

Remote clock offset: -1.718 ms

Below is generated by plot.py at 2019-10-03 09:48:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 23.501 ms

Loss rate: 0.19%

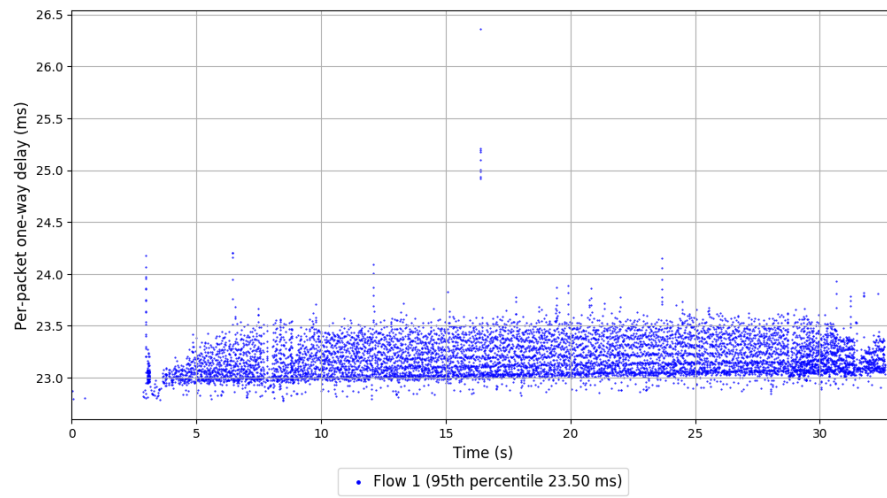
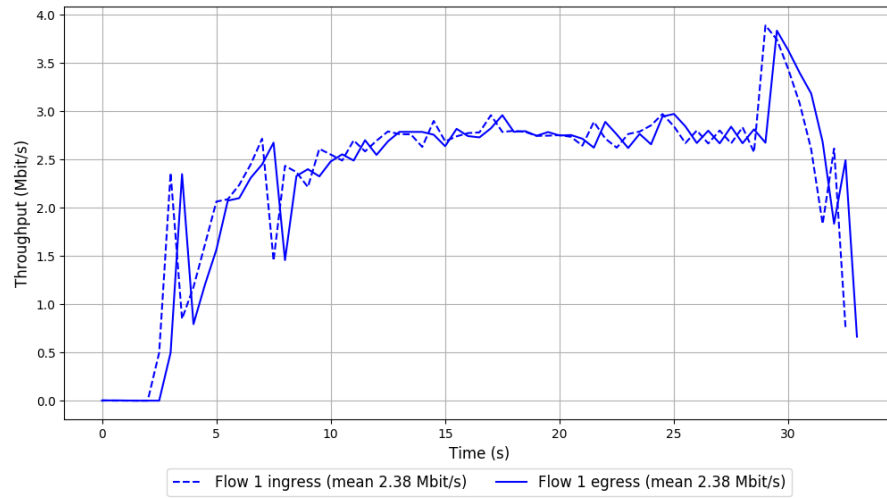
-- Flow 1:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 23.501 ms

Loss rate: 0.19%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-10-03 09:01:14

End at: 2019-10-03 09:01:44

Local clock offset: 0.971 ms

Remote clock offset: 1.889 ms

Below is generated by plot.py at 2019-10-03 09:48:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 15.101 ms

Loss rate: 0.37%

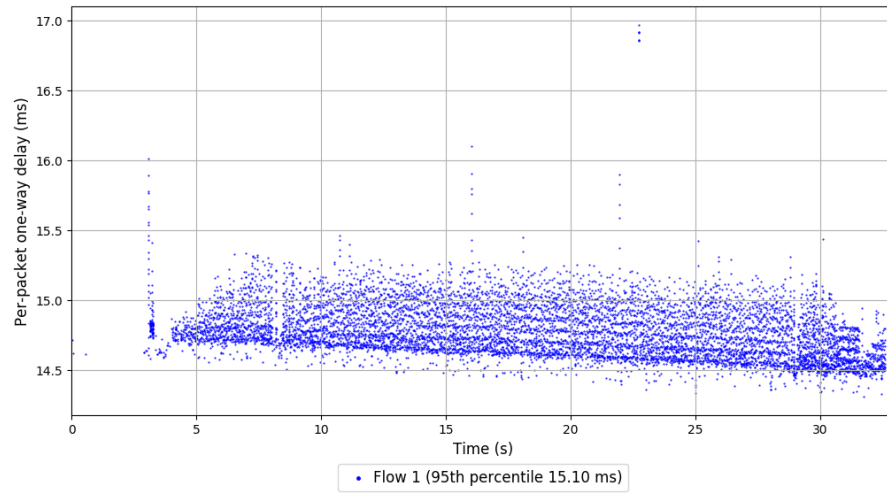
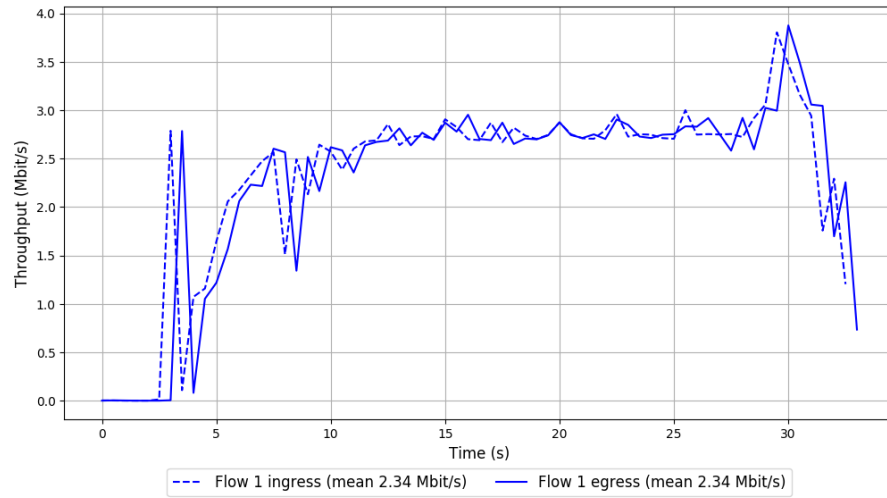
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 15.101 ms

Loss rate: 0.37%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-10-03 09:30:53

End at: 2019-10-03 09:31:23

Local clock offset: 4.171 ms

Remote clock offset: -0.47 ms

Below is generated by plot.py at 2019-10-03 09:48:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 18.115 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 18.115 ms

Loss rate: 0.13%

Run 5: Report of WebRTC media — Data Link

