

Pantheon Report

Generated at 2019-07-12 12:35:31 (UTC).

Data path: Brazil on **p4p1** (*remote*) → AWS Brazil 1 on **ens5** (*local*).

Repeated the test of 24 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

NTP offsets were measured against **gps.ntp.br** and have been applied to correct the timestamps in logs.

System info:

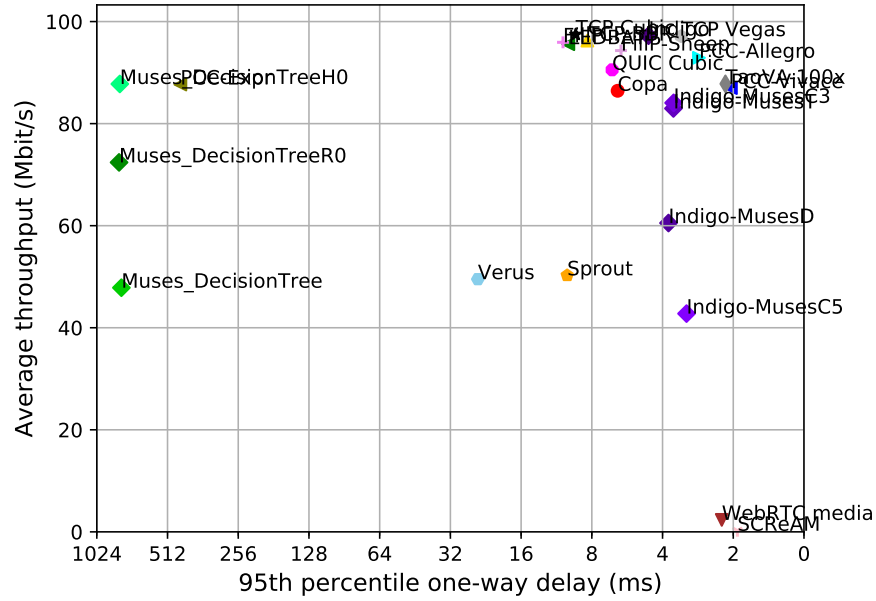
```
Linux 4.15.0-1041-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

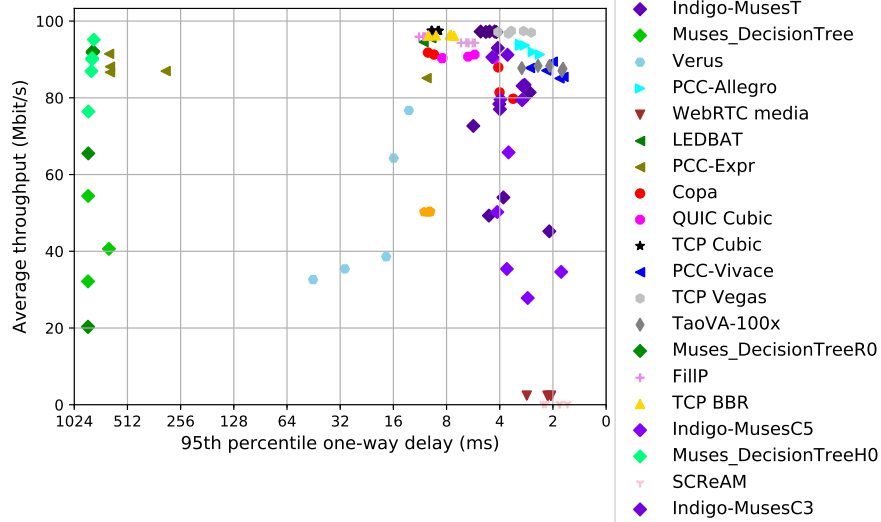
```
branch: muses @ 2076e1149a241f3edb4365d686df32342bf9561f
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 8bb93ffff2b107204a92d8b72449fc0c55e15f00
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
```

third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from Brazil to AWS Brazil 1, 5 runs of 30s each per scheme
(mean of all runs by scheme)



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



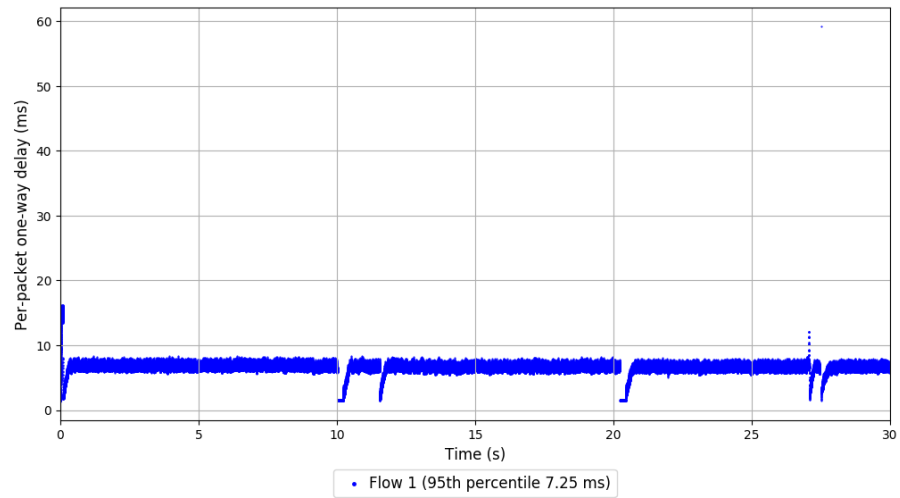
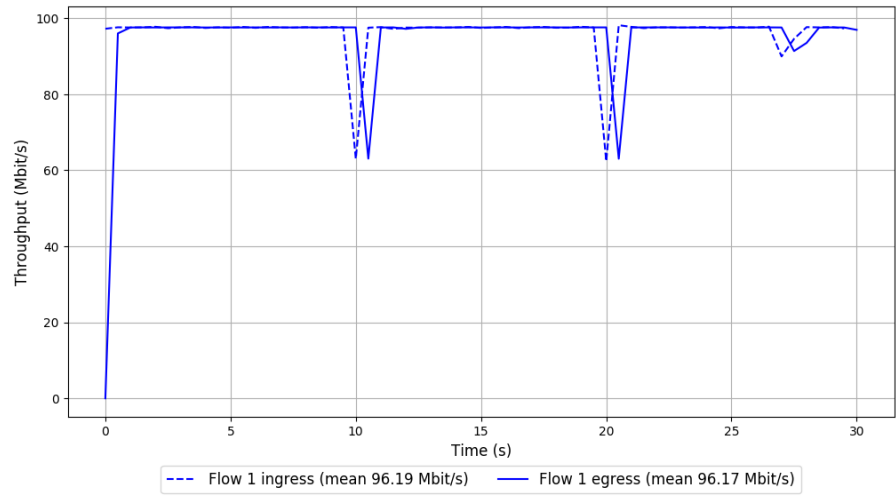
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	96.27	8.35	0.10
Copa	5	86.44	6.21	0.03
TCP Cubic	5	97.47	9.37	0.05
FillP	5	95.93	10.61	0.05
FillP-Sheep	5	94.32	6.01	0.03
Indigo	5	97.23	4.59	0.02
Indigo-MusesC3	5	84.07	3.59	0.02
Indigo-MusesC5	5	42.77	3.16	0.02
Indigo-MusesD	5	60.52	3.77	0.02
Indigo-MusesT	5	82.97	3.60	0.02
LEDBAT	5	95.57	10.07	0.08
Muses_DecisionTree	5	47.84	804.73	0.60
Muses_DecisionTreeH0	5	87.77	817.29	0.30
Muses_DecisionTreeR0	5	72.40	823.35	0.50
PCC-Allegro	5	92.90	2.80	0.02
PCC-Expr	5	87.66	451.54	3.19
QUIC Cubic	5	90.55	6.56	0.02
SCReAM	5	0.22	1.88	0.05
Sprout	5	50.27	10.19	0.06
TaoVA-100x	5	87.80	2.16	0.02
TCP Vegas	5	97.14	3.34	0.02
Verus	5	49.52	24.45	0.04
PCC-Vivace	5	86.96	2.05	0.02
WebRTC media	5	2.35	2.24	0.03

Run 1: Statistics of TCP BBR

Start at: 2019-07-12 10:18:55
End at: 2019-07-12 10:19:25
Local clock offset: -7.708 ms
Remote clock offset: -0.094 ms

Below is generated by plot.py at 2019-07-12 12:21:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.17 Mbit/s
95th percentile per-packet one-way delay: 7.254 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 96.17 Mbit/s
95th percentile per-packet one-way delay: 7.254 ms
Loss rate: 0.03%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-07-12 10:45:59

End at: 2019-07-12 10:46:29

Local clock offset: -7.546 ms

Remote clock offset: 0.26 ms

Below is generated by plot.py at 2019-07-12 12:21:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.23 Mbit/s

95th percentile per-packet one-way delay: 10.124 ms

Loss rate: 0.29%

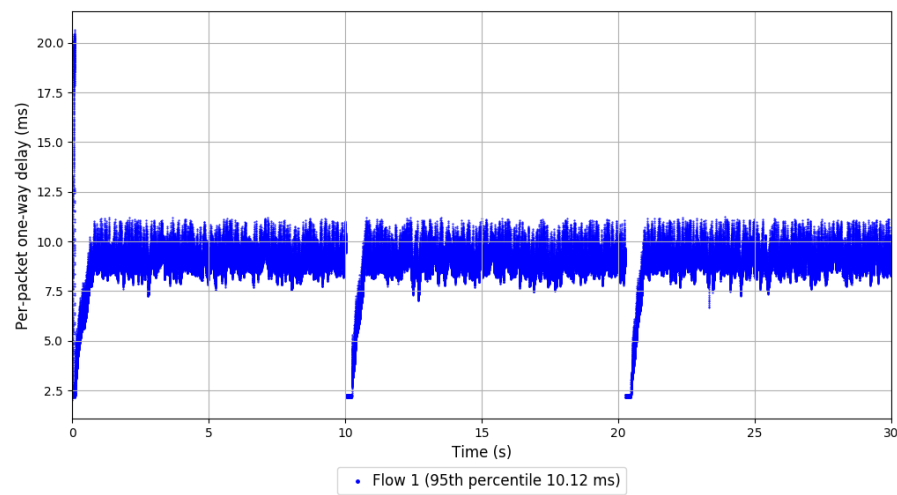
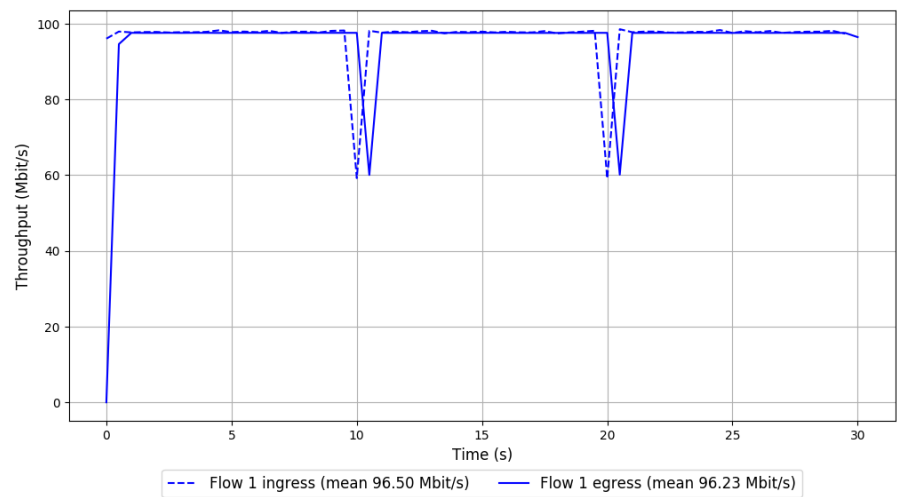
-- Flow 1:

Average throughput: 96.23 Mbit/s

95th percentile per-packet one-way delay: 10.124 ms

Loss rate: 0.29%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-07-12 11:13:08

End at: 2019-07-12 11:13:38

Local clock offset: -7.478 ms

Remote clock offset: 0.564 ms

Below is generated by plot.py at 2019-07-12 12:21:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.35 Mbit/s

95th percentile per-packet one-way delay: 7.671 ms

Loss rate: 0.03%

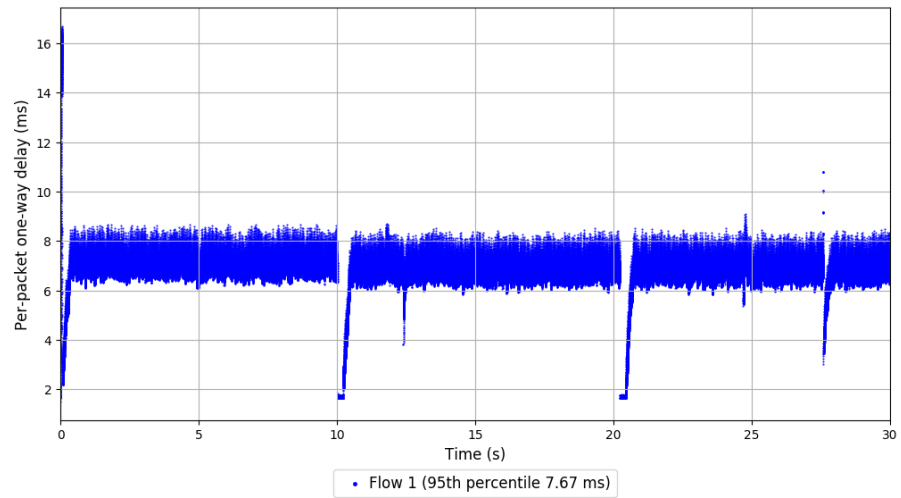
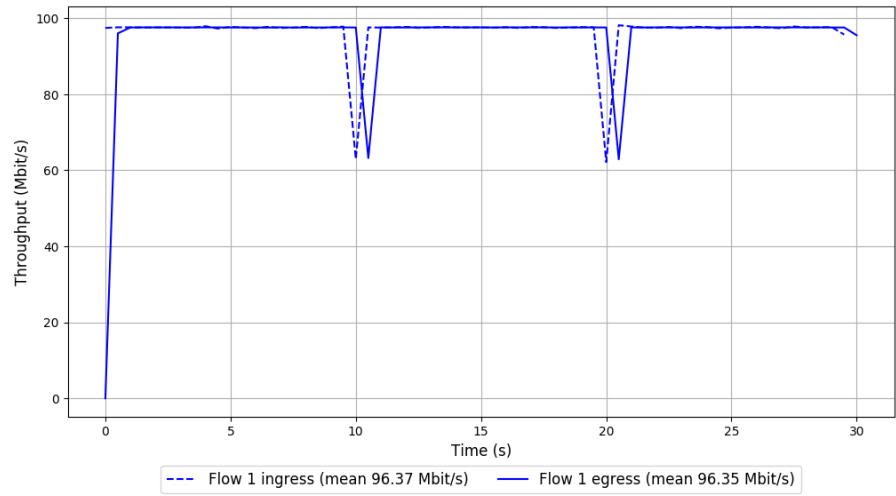
-- Flow 1:

Average throughput: 96.35 Mbit/s

95th percentile per-packet one-way delay: 7.671 ms

Loss rate: 0.03%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-07-12 11:40:14

End at: 2019-07-12 11:40:44

Local clock offset: -6.74 ms

Remote clock offset: 0.635 ms

Below is generated by plot.py at 2019-07-12 12:21:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.35 Mbit/s

95th percentile per-packet one-way delay: 7.549 ms

Loss rate: 0.03%

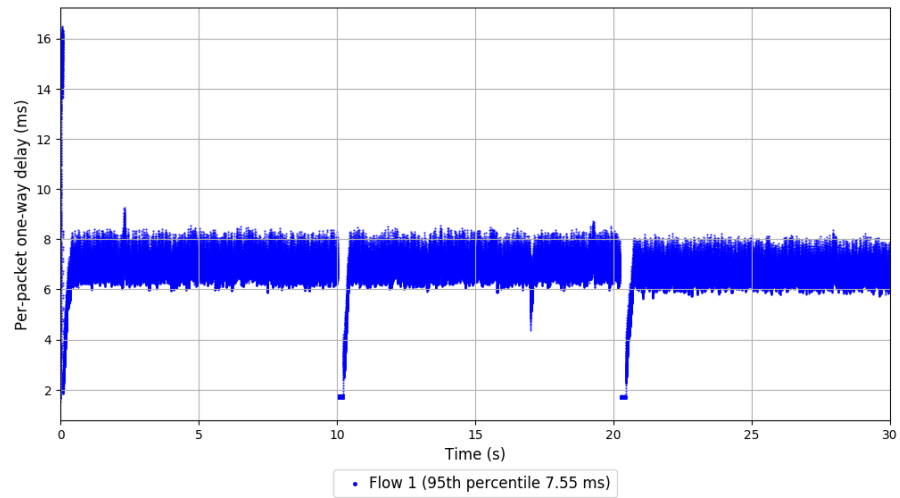
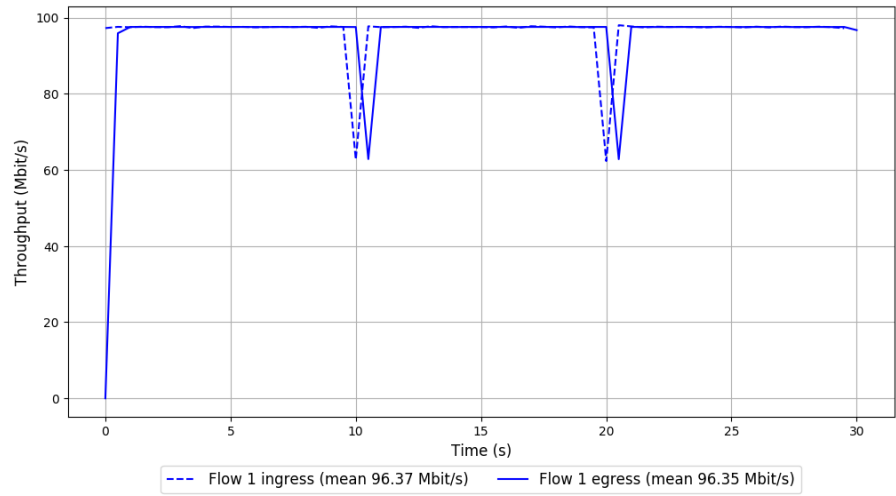
-- Flow 1:

Average throughput: 96.35 Mbit/s

95th percentile per-packet one-way delay: 7.549 ms

Loss rate: 0.03%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-07-12 12:07:22

End at: 2019-07-12 12:07:52

Local clock offset: -7.067 ms

Remote clock offset: 0.533 ms

Below is generated by plot.py at 2019-07-12 12:21:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 9.176 ms

Loss rate: 0.11%

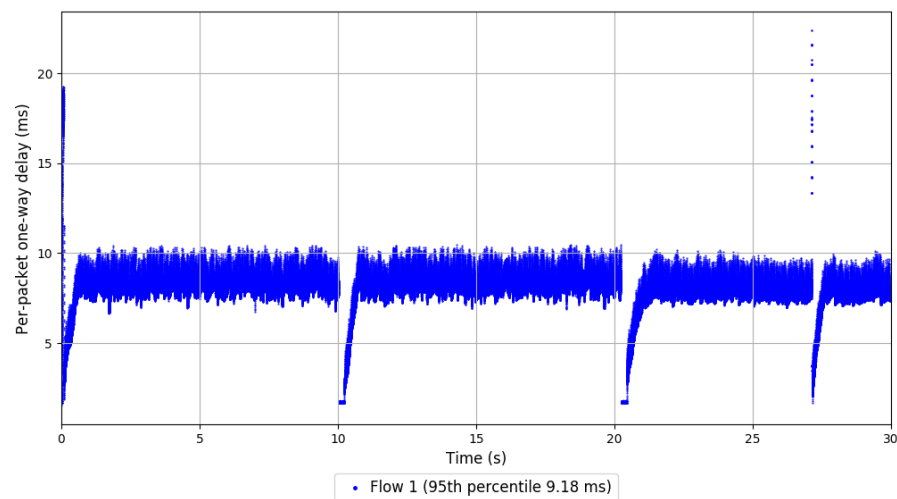
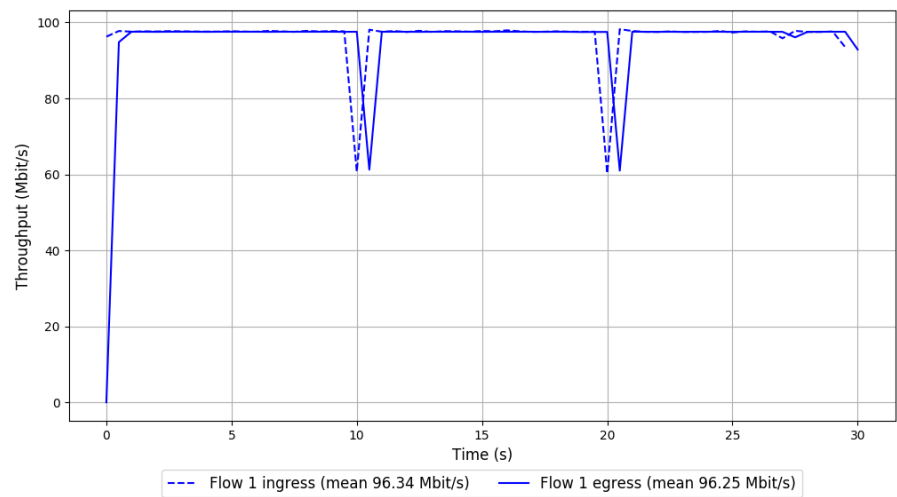
-- Flow 1:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 9.176 ms

Loss rate: 0.11%

Run 5: Report of TCP BBR — Data Link

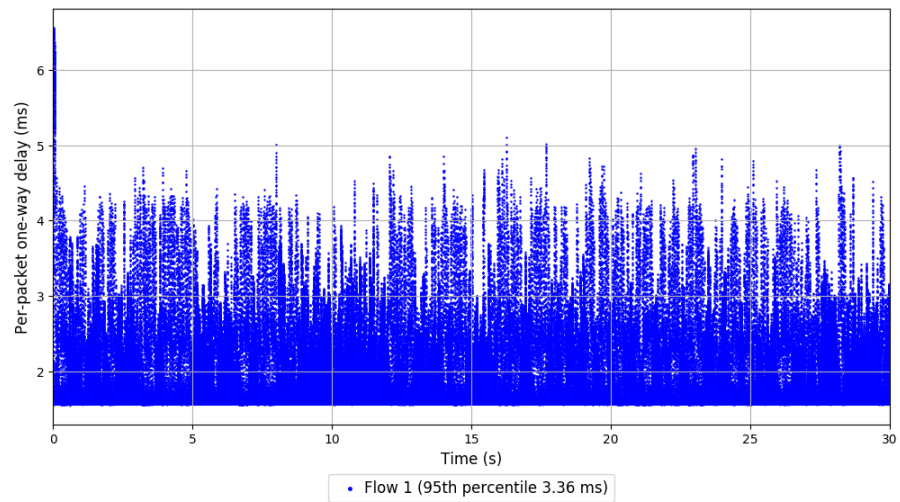
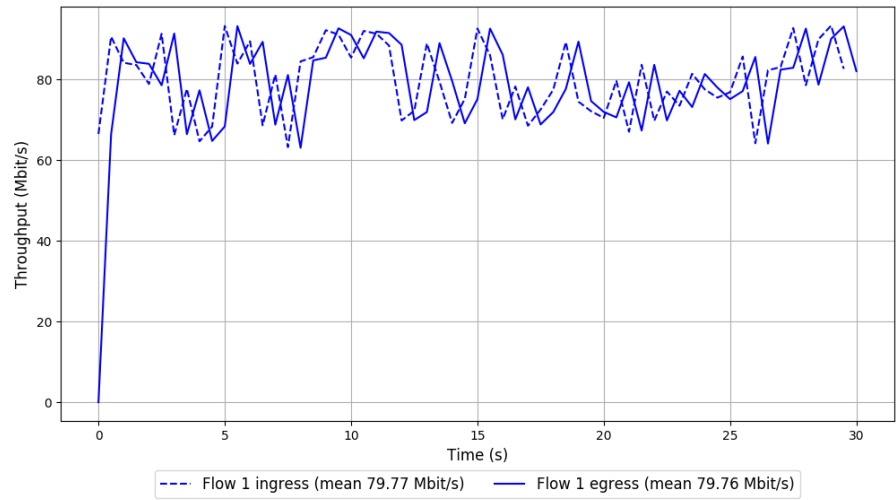


Run 1: Statistics of Copa

Start at: 2019-07-12 10:07:34
End at: 2019-07-12 10:08:04
Local clock offset: -7.52 ms
Remote clock offset: -0.147 ms

Below is generated by plot.py at 2019-07-12 12:21:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.76 Mbit/s
95th percentile per-packet one-way delay: 3.359 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 79.76 Mbit/s
95th percentile per-packet one-way delay: 3.359 ms
Loss rate: 0.02%

Run 1: Report of Copa — Data Link

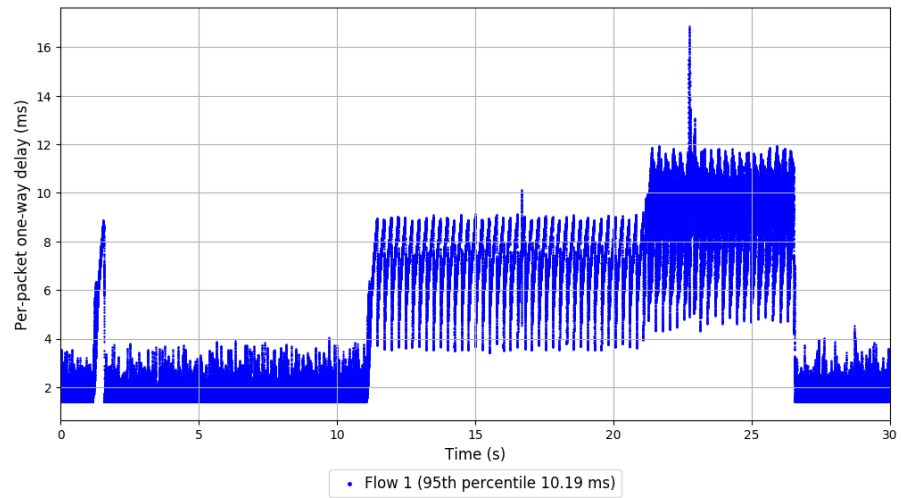
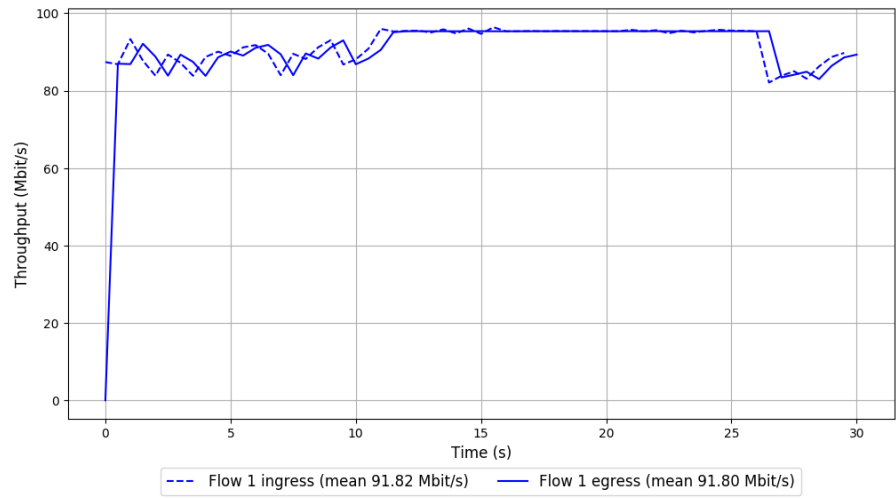


Run 2: Statistics of Copa

Start at: 2019-07-12 10:34:38
End at: 2019-07-12 10:35:08
Local clock offset: -7.76 ms
Remote clock offset: 0.134 ms

Below is generated by plot.py at 2019-07-12 12:22:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.80 Mbit/s
95th percentile per-packet one-way delay: 10.189 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 91.80 Mbit/s
95th percentile per-packet one-way delay: 10.189 ms
Loss rate: 0.04%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-07-12 11:01:46

End at: 2019-07-12 11:02:16

Local clock offset: -6.991 ms

Remote clock offset: 0.424 ms

Below is generated by plot.py at 2019-07-12 12:22:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.27 Mbit/s

95th percentile per-packet one-way delay: 9.425 ms

Loss rate: 0.05%

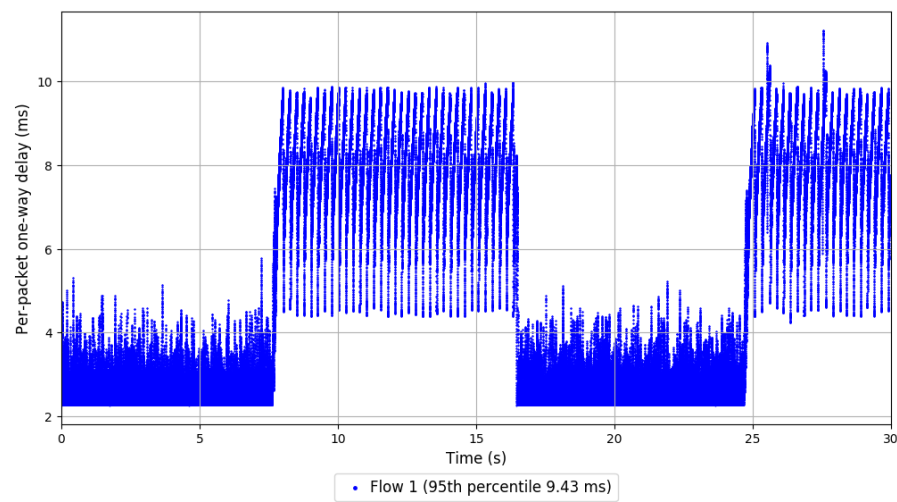
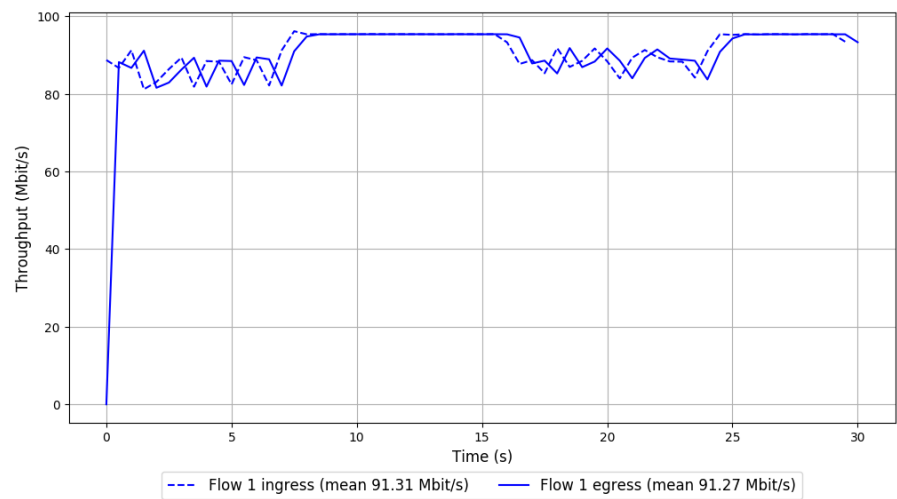
-- Flow 1:

Average throughput: 91.27 Mbit/s

95th percentile per-packet one-way delay: 9.425 ms

Loss rate: 0.05%

Run 3: Report of Copa — Data Link

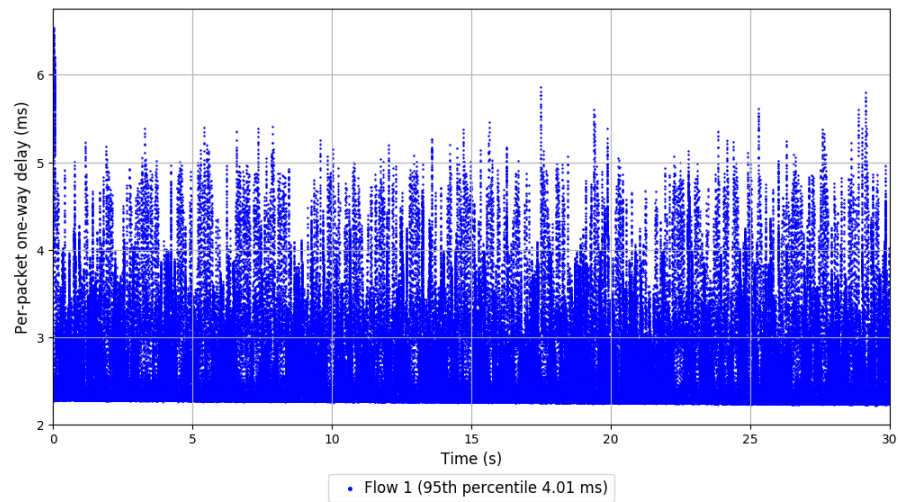
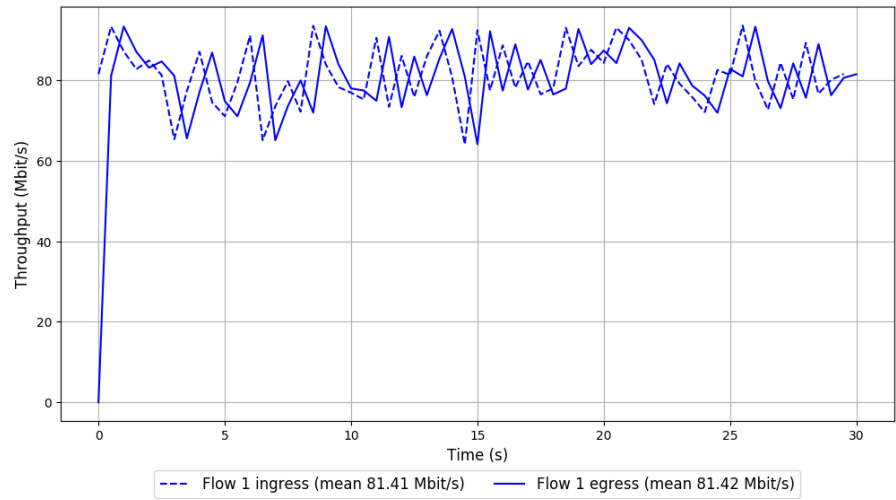


Run 4: Statistics of Copa

Start at: 2019-07-12 11:28:53
End at: 2019-07-12 11:29:23
Local clock offset: -6.763 ms
Remote clock offset: 0.684 ms

Below is generated by plot.py at 2019-07-12 12:23:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 81.42 Mbit/s
95th percentile per-packet one-way delay: 4.010 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 81.42 Mbit/s
95th percentile per-packet one-way delay: 4.010 ms
Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-07-12 11:56:00

End at: 2019-07-12 11:56:30

Local clock offset: -5.668 ms

Remote clock offset: 0.657 ms

Below is generated by plot.py at 2019-07-12 12:23:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.93 Mbit/s

95th percentile per-packet one-way delay: 4.075 ms

Loss rate: 0.01%

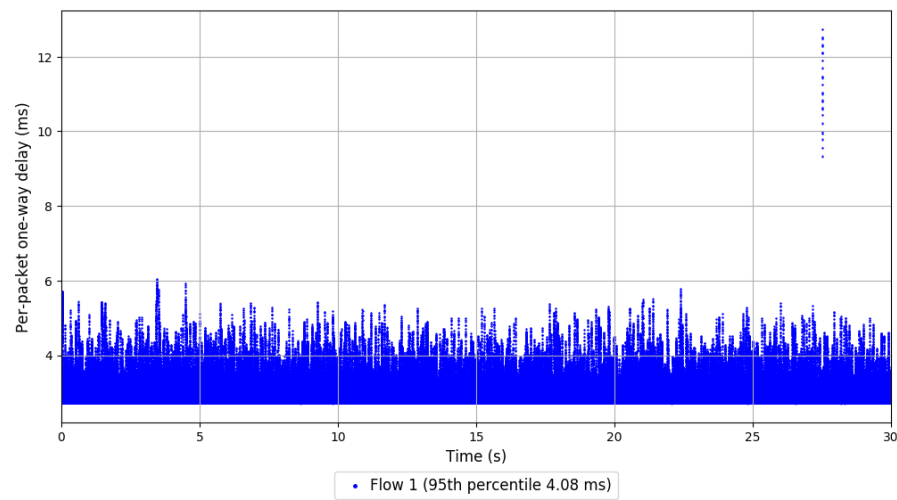
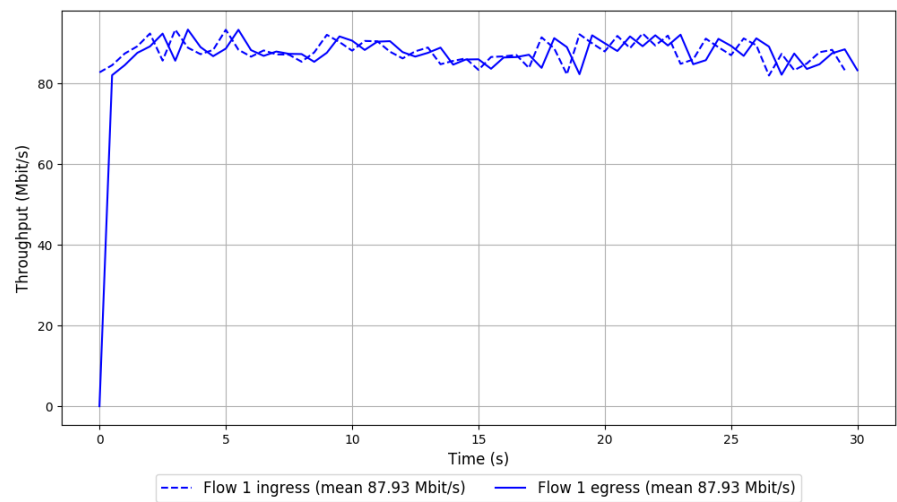
-- Flow 1:

Average throughput: 87.93 Mbit/s

95th percentile per-packet one-way delay: 4.075 ms

Loss rate: 0.01%

Run 5: Report of Copa — Data Link

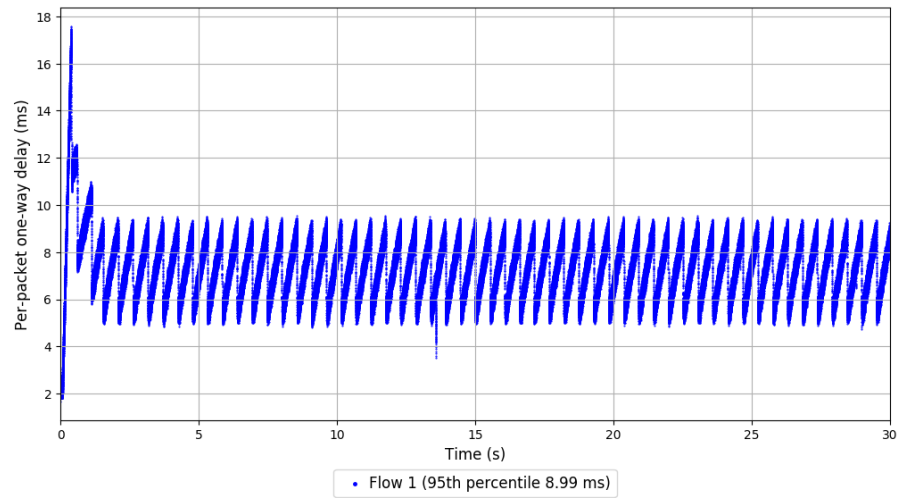
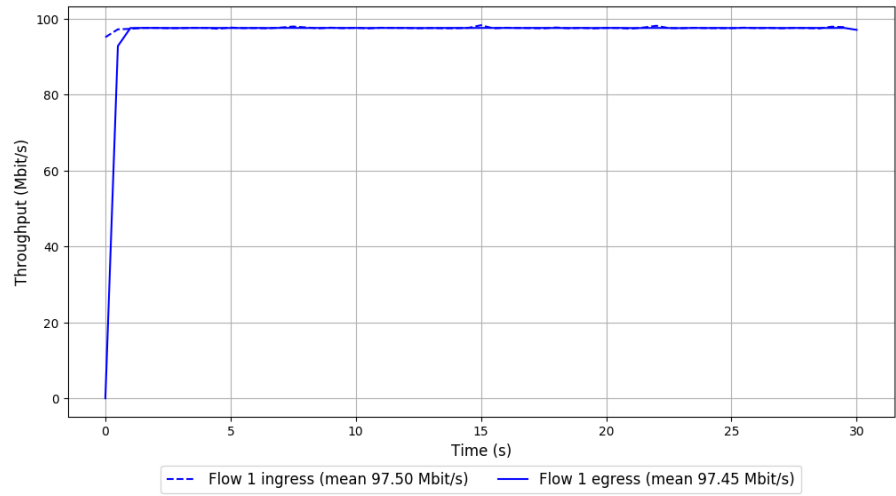


Run 1: Statistics of TCP Cubic

Start at: 2019-07-12 10:14:20
End at: 2019-07-12 10:14:50
Local clock offset: -7.779 ms
Remote clock offset: -0.127 ms

Below is generated by plot.py at 2019-07-12 12:23:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.45 Mbit/s
95th percentile per-packet one-way delay: 8.990 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 97.45 Mbit/s
95th percentile per-packet one-way delay: 8.990 ms
Loss rate: 0.06%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-07-12 10:41:24

End at: 2019-07-12 10:41:54

Local clock offset: -7.517 ms

Remote clock offset: 0.318 ms

Below is generated by plot.py at 2019-07-12 12:23:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 8.820 ms

Loss rate: 0.06%

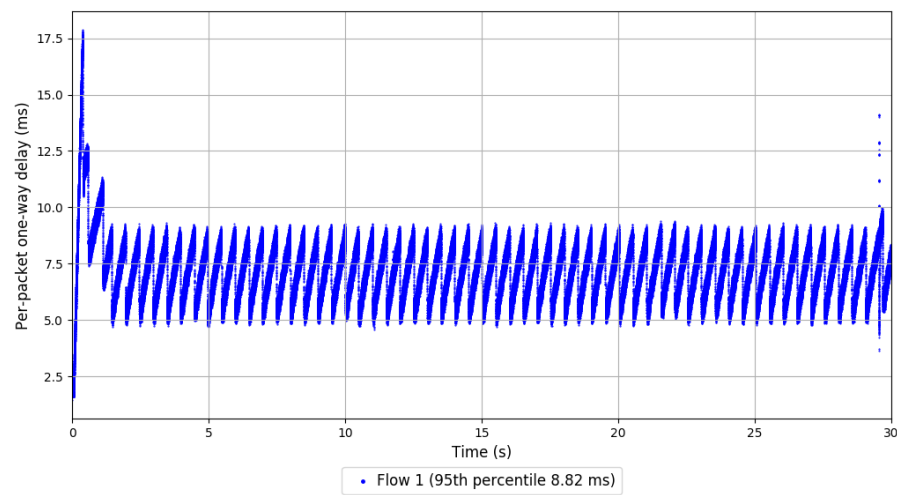
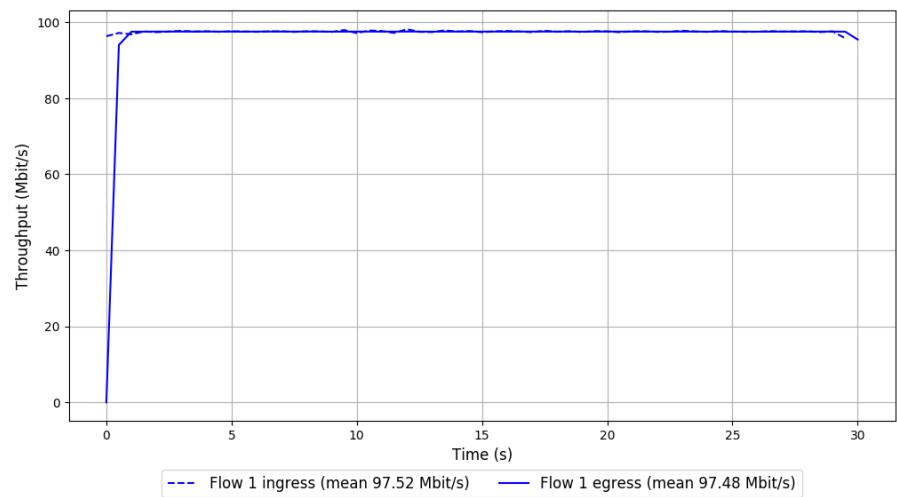
-- Flow 1:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 8.820 ms

Loss rate: 0.06%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-07-12 11:08:34

End at: 2019-07-12 11:09:04

Local clock offset: -6.722 ms

Remote clock offset: 0.578 ms

Below is generated by plot.py at 2019-07-12 12:23:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.44 Mbit/s

95th percentile per-packet one-way delay: 9.645 ms

Loss rate: 0.05%

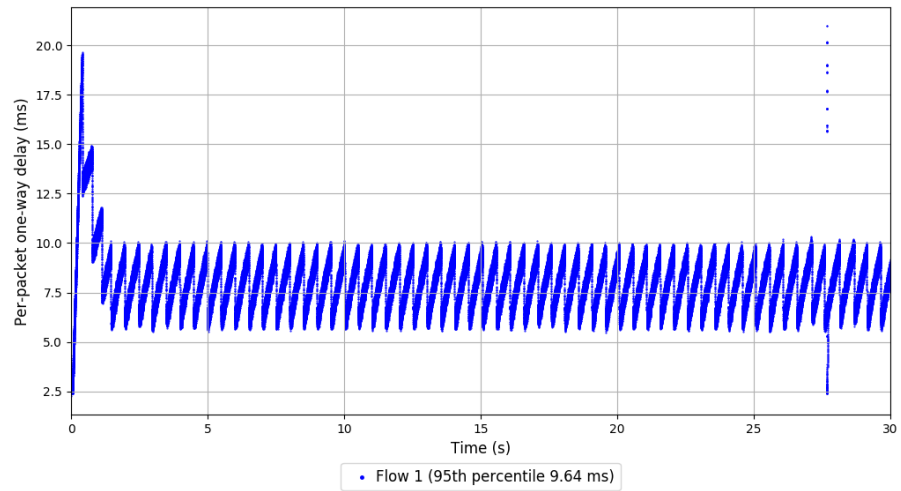
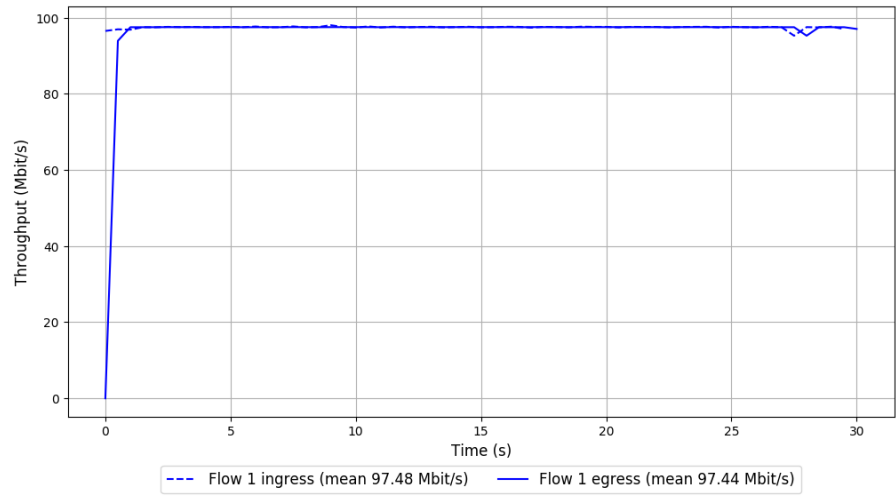
-- Flow 1:

Average throughput: 97.44 Mbit/s

95th percentile per-packet one-way delay: 9.645 ms

Loss rate: 0.05%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-07-12 11:35:39

End at: 2019-07-12 11:36:09

Local clock offset: -6.167 ms

Remote clock offset: 0.603 ms

Below is generated by plot.py at 2019-07-12 12:23:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.49 Mbit/s

95th percentile per-packet one-way delay: 9.750 ms

Loss rate: 0.05%

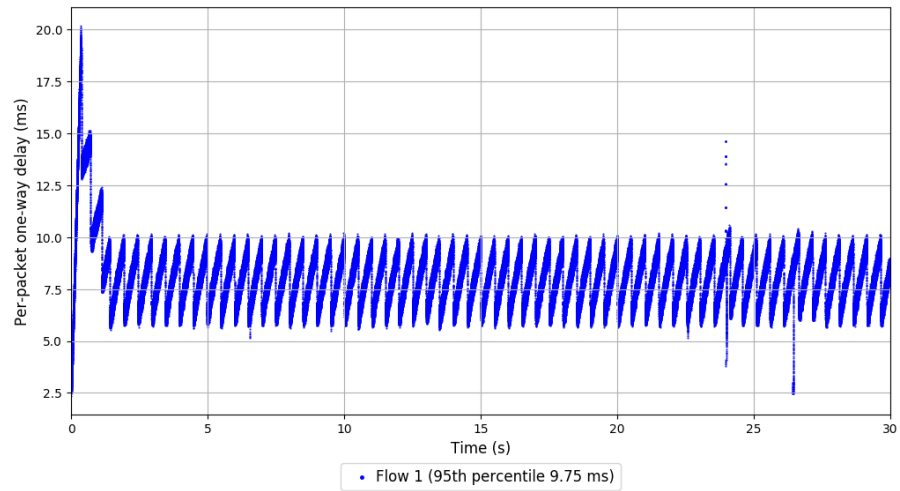
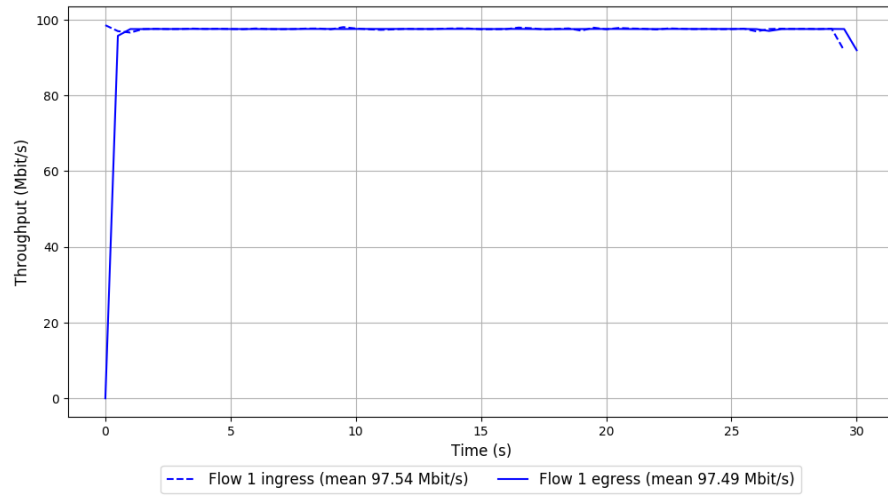
-- Flow 1:

Average throughput: 97.49 Mbit/s

95th percentile per-packet one-way delay: 9.750 ms

Loss rate: 0.05%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-07-12 12:02:46

End at: 2019-07-12 12:03:16

Local clock offset: -5.984 ms

Remote clock offset: 0.444 ms

Below is generated by plot.py at 2019-07-12 12:23:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 9.657 ms

Loss rate: 0.05%

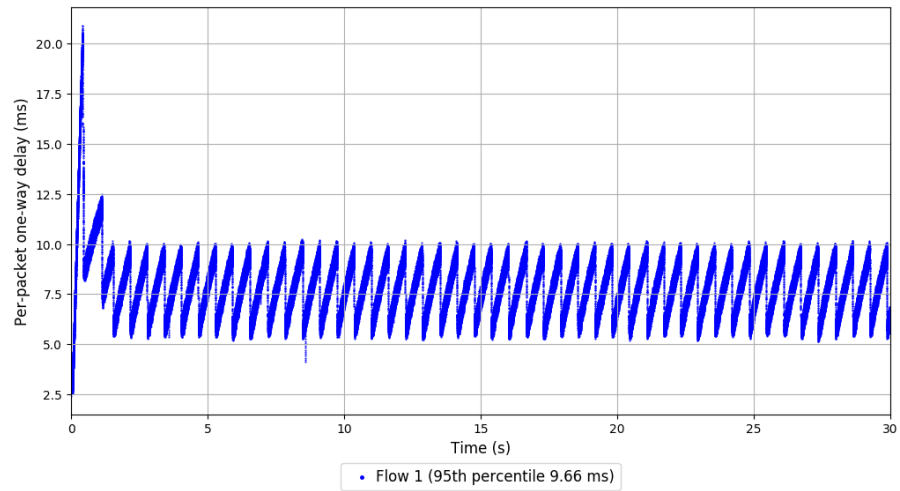
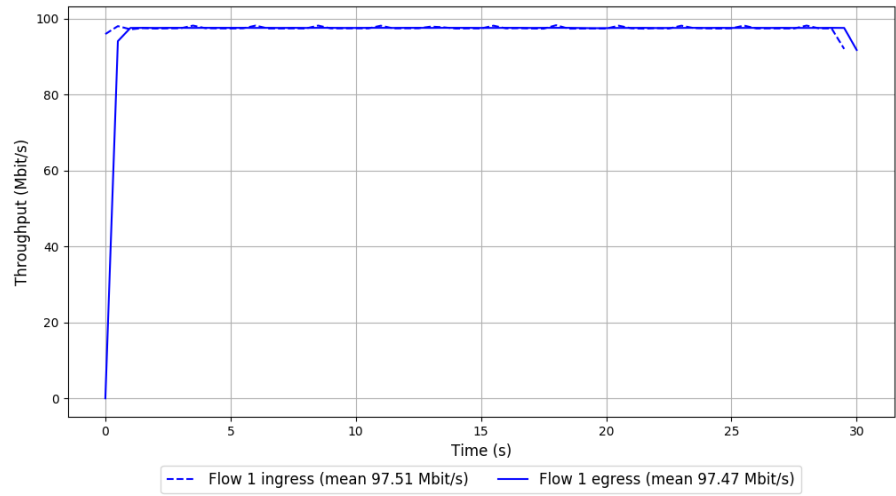
-- Flow 1:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 9.657 ms

Loss rate: 0.05%

Run 5: Report of TCP Cubic — Data Link

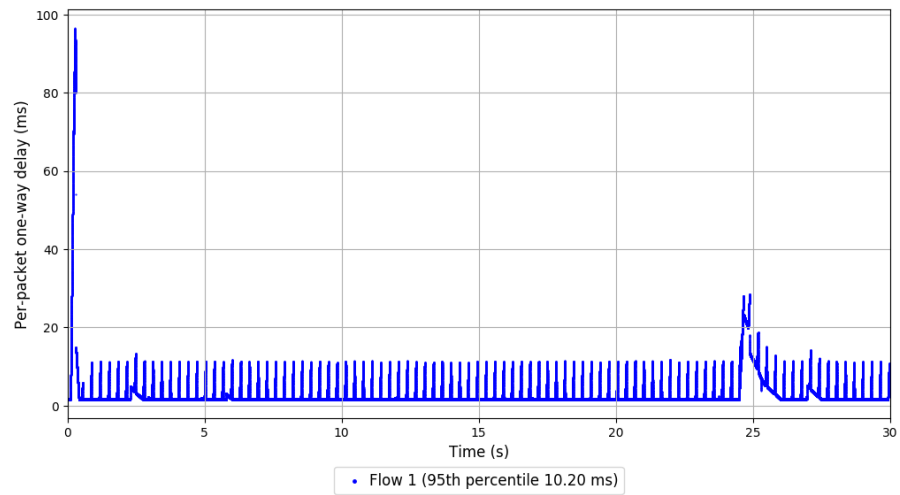
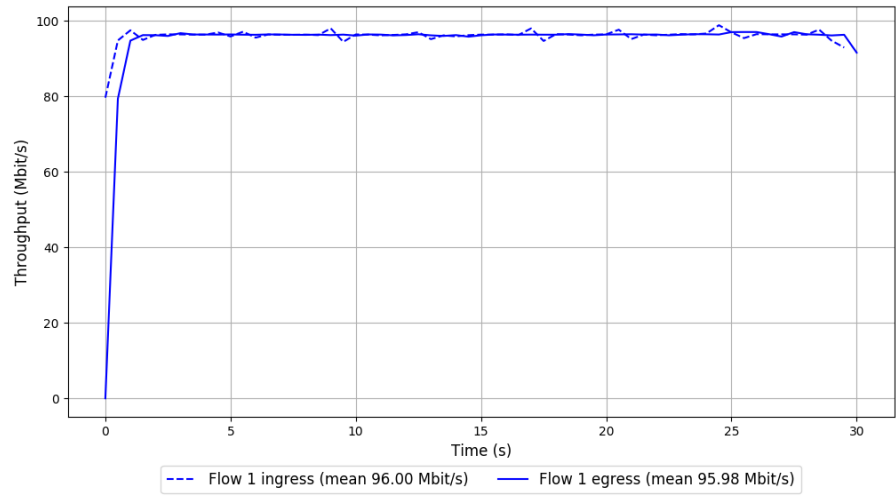


Run 1: Statistics of FillP

Start at: 2019-07-12 10:23:24
End at: 2019-07-12 10:23:54
Local clock offset: -7.491 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2019-07-12 12:23:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 10.197 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 10.197 ms
Loss rate: 0.04%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-07-12 10:50:28

End at: 2019-07-12 10:50:58

Local clock offset: -7.795 ms

Remote clock offset: 0.416 ms

Below is generated by plot.py at 2019-07-12 12:23:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.93 Mbit/s

95th percentile per-packet one-way delay: 10.003 ms

Loss rate: 0.04%

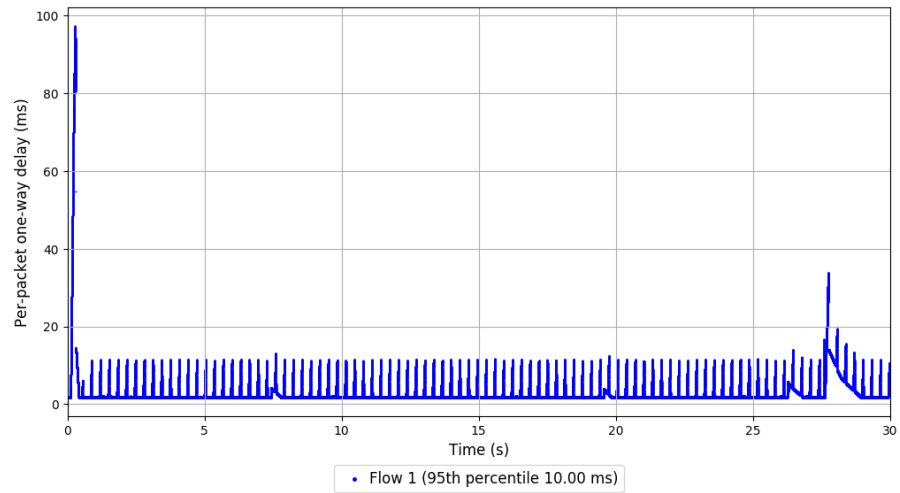
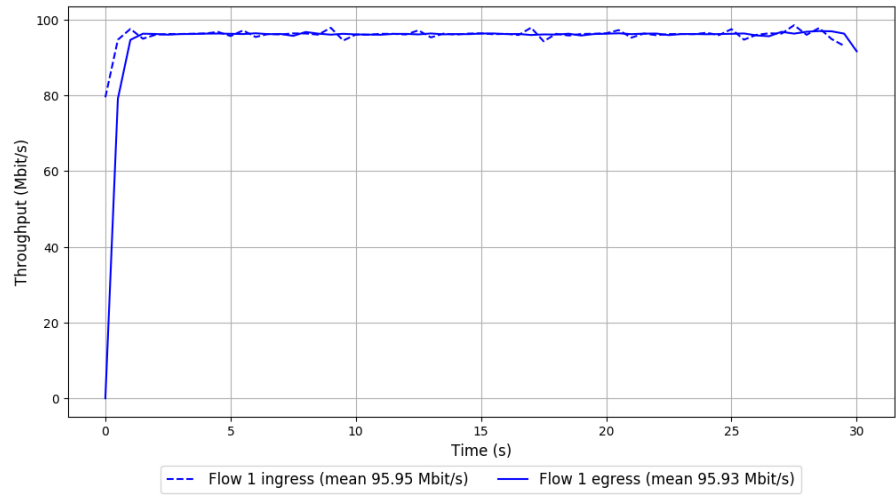
-- Flow 1:

Average throughput: 95.93 Mbit/s

95th percentile per-packet one-way delay: 10.003 ms

Loss rate: 0.04%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-07-12 11:17:37

End at: 2019-07-12 11:18:07

Local clock offset: -6.705 ms

Remote clock offset: 0.639 ms

Below is generated by plot.py at 2019-07-12 12:23:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 11.451 ms

Loss rate: 0.03%

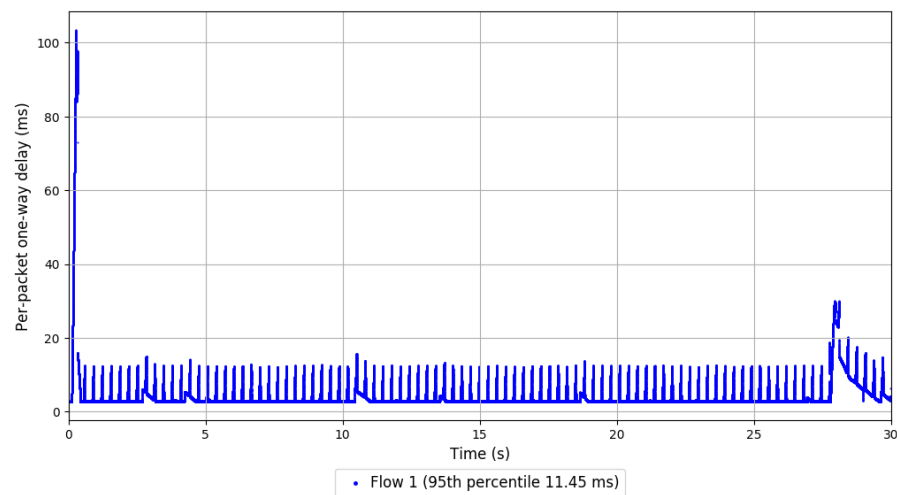
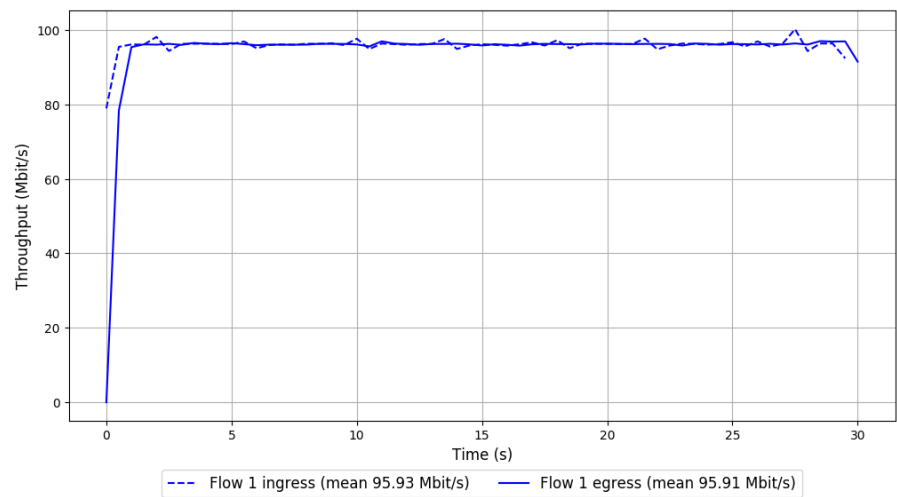
-- Flow 1:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 11.451 ms

Loss rate: 0.03%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-07-12 11:44:43

End at: 2019-07-12 11:45:13

Local clock offset: -5.811 ms

Remote clock offset: 0.671 ms

Below is generated by plot.py at 2019-07-12 12:23:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.92 Mbit/s

95th percentile per-packet one-way delay: 10.837 ms

Loss rate: 0.03%

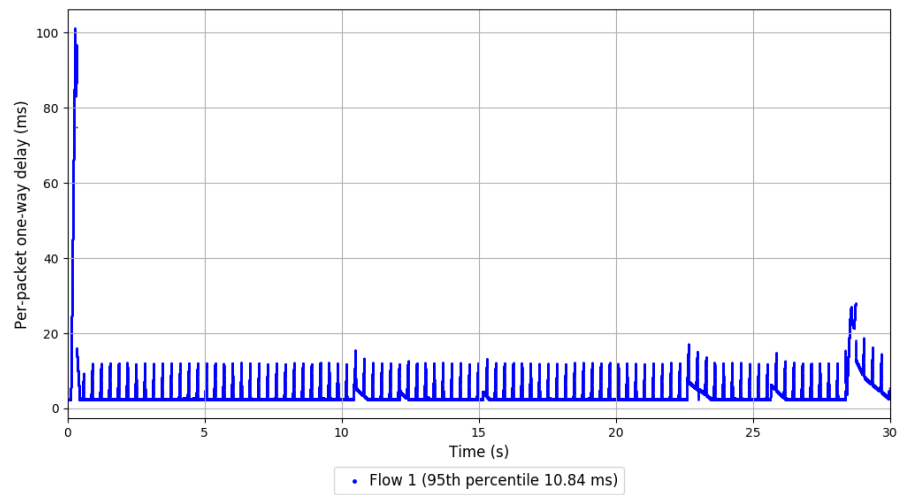
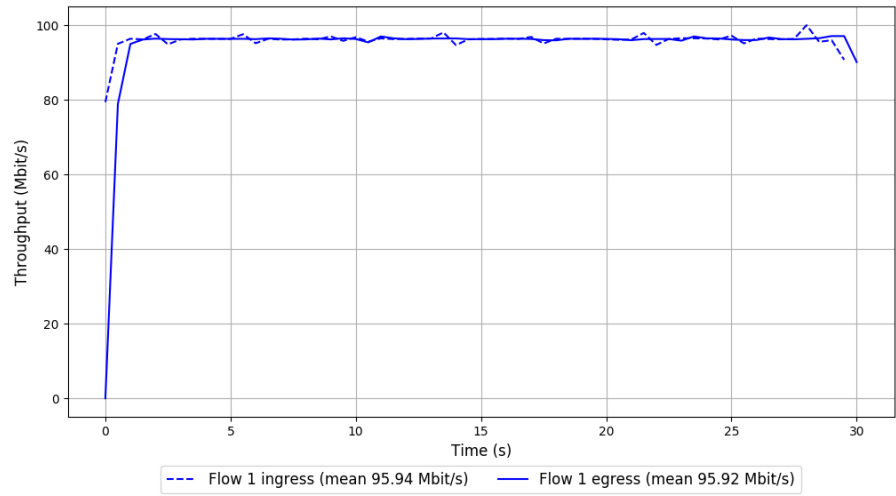
-- Flow 1:

Average throughput: 95.92 Mbit/s

95th percentile per-packet one-way delay: 10.837 ms

Loss rate: 0.03%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-07-12 12:11:50

End at: 2019-07-12 12:12:21

Local clock offset: -6.467 ms

Remote clock offset: 0.57 ms

Below is generated by plot.py at 2019-07-12 12:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.92 Mbit/s

95th percentile per-packet one-way delay: 10.579 ms

Loss rate: 0.10%

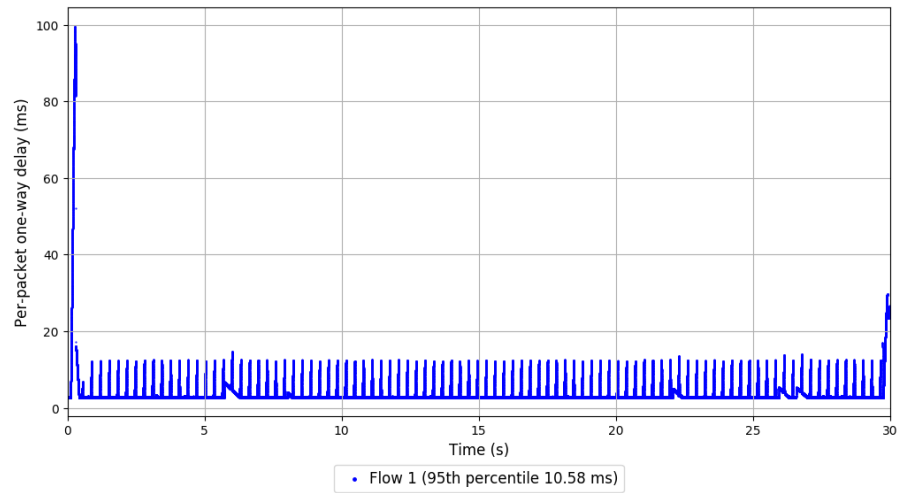
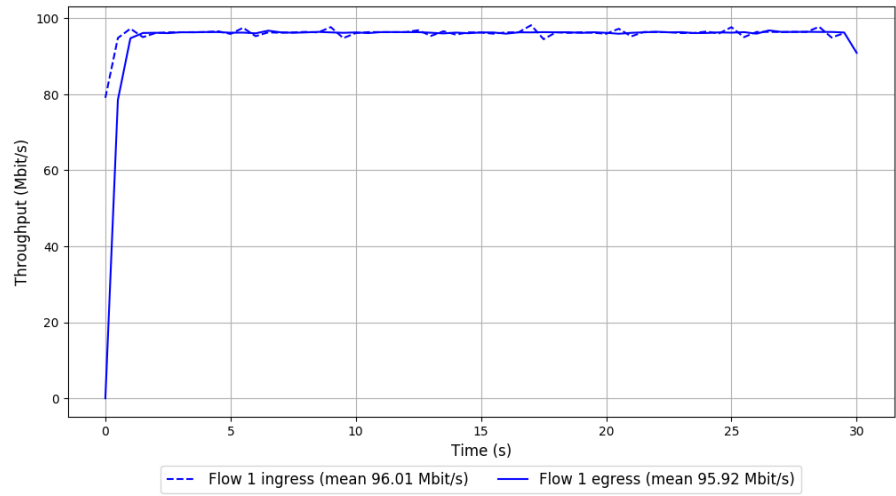
-- Flow 1:

Average throughput: 95.92 Mbit/s

95th percentile per-packet one-way delay: 10.579 ms

Loss rate: 0.10%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-07-12 10:09:54

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

Local clock offset: -6.993 ms

Remote clock offset: -0.176 ms

Below is generated by plot.py at 2019-07-12 12:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.30 Mbit/s

95th percentile per-packet one-way delay: 6.011 ms

Loss rate: 0.05%

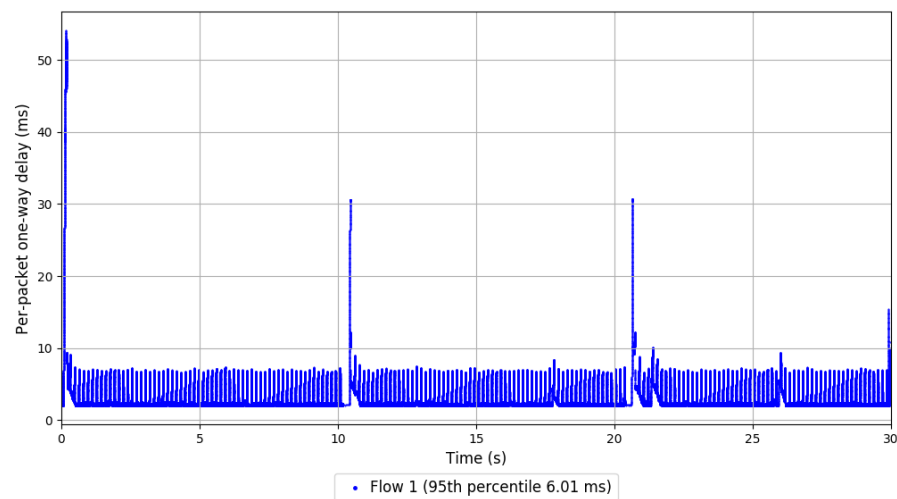
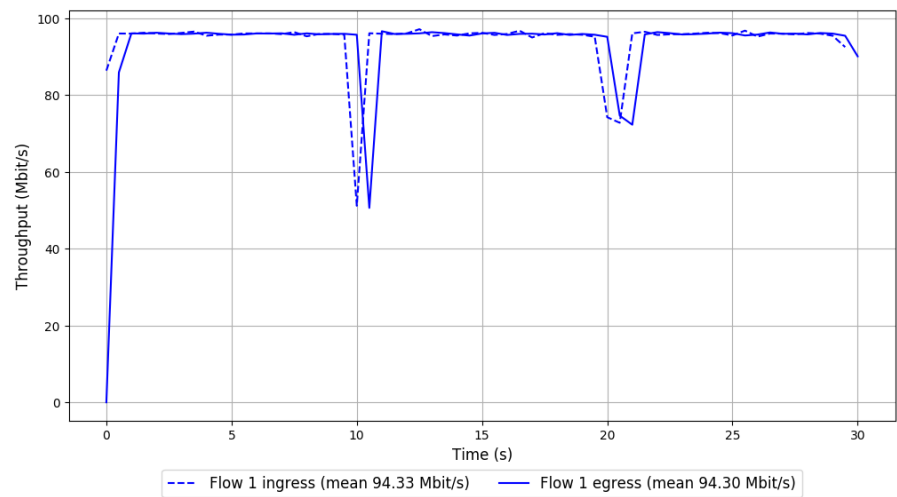
-- Flow 1:

Average throughput: 94.30 Mbit/s

95th percentile per-packet one-way delay: 6.011 ms

Loss rate: 0.05%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-07-12 10:36:58

End at: 2019-07-12 10:37:28

Local clock offset: -7.546 ms

Remote clock offset: 0.256 ms

Below is generated by plot.py at 2019-07-12 12:24:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.31 Mbit/s

95th percentile per-packet one-way delay: 5.693 ms

Loss rate: 0.02%

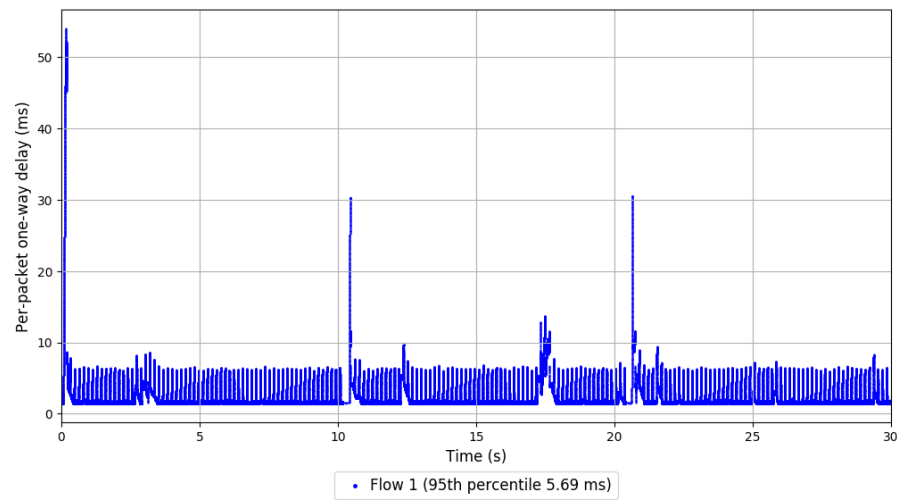
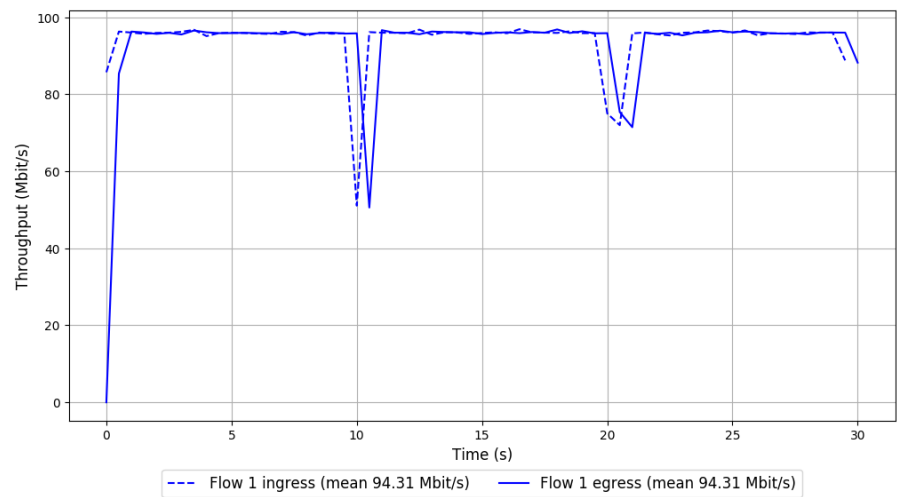
-- Flow 1:

Average throughput: 94.31 Mbit/s

95th percentile per-packet one-way delay: 5.693 ms

Loss rate: 0.02%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-07-12 11:04:07

End at: 2019-07-12 11:04:37

Local clock offset: -7.029 ms

Remote clock offset: 0.54 ms

Below is generated by plot.py at 2019-07-12 12:24:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.37 Mbit/s

95th percentile per-packet one-way delay: 6.183 ms

Loss rate: 0.02%

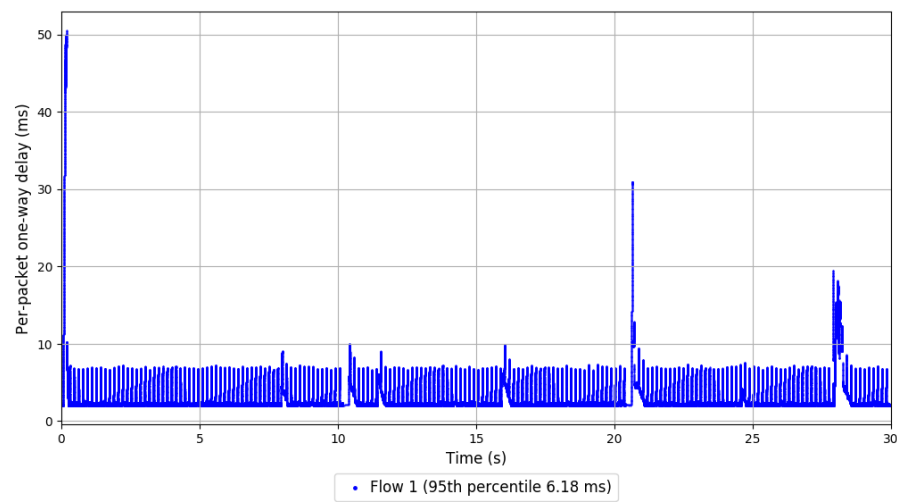
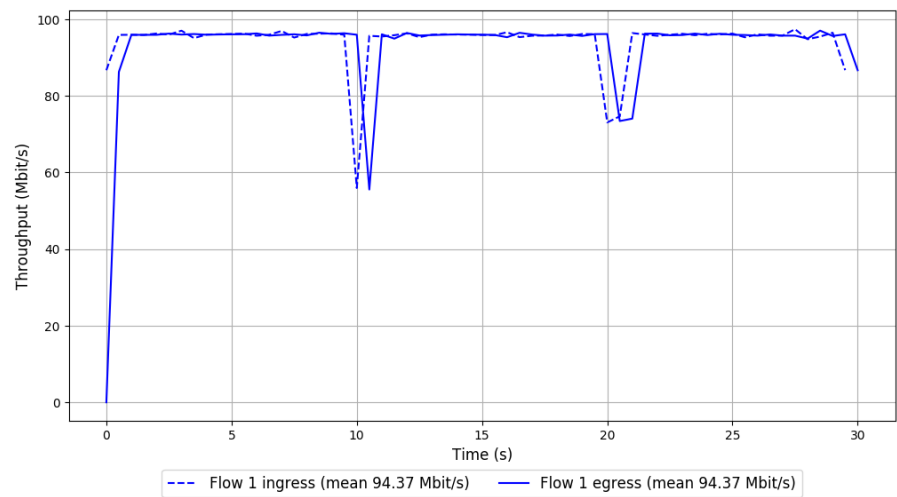
-- Flow 1:

Average throughput: 94.37 Mbit/s

95th percentile per-packet one-way delay: 6.183 ms

Loss rate: 0.02%

Run 3: Report of FillP-Sheep — Data Link

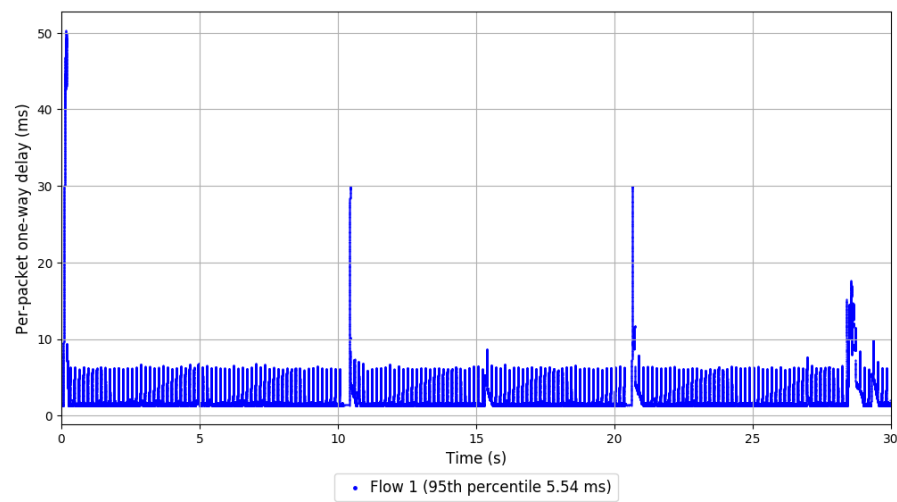
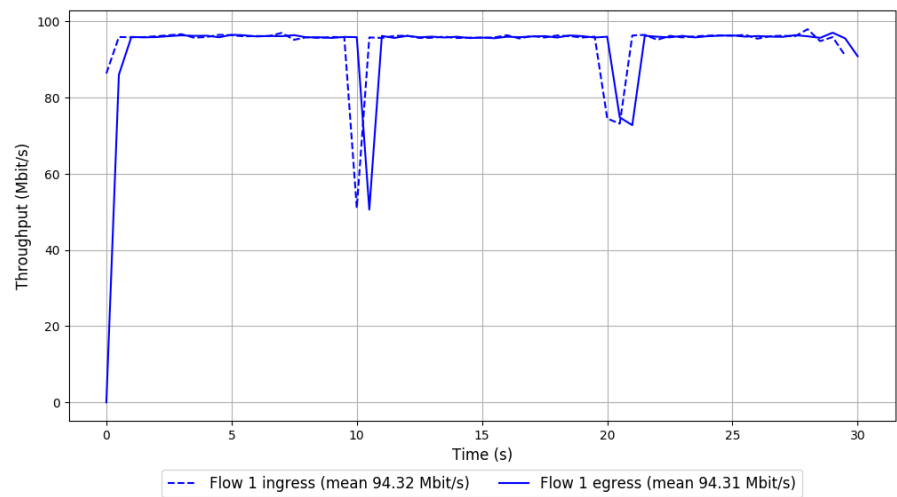


Run 4: Statistics of FillP-Sheep

Start at: 2019-07-12 11:31:13
End at: 2019-07-12 11:31:43
Local clock offset: -7.323 ms
Remote clock offset: 0.732 ms

Below is generated by plot.py at 2019-07-12 12:24:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.31 Mbit/s
95th percentile per-packet one-way delay: 5.535 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 94.31 Mbit/s
95th percentile per-packet one-way delay: 5.535 ms
Loss rate: 0.02%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-07-12 11:58:21

End at: 2019-07-12 11:58:51

Local clock offset: -5.553 ms

Remote clock offset: 0.627 ms

Below is generated by plot.py at 2019-07-12 12:24:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.31 Mbit/s

95th percentile per-packet one-way delay: 6.627 ms

Loss rate: 0.02%

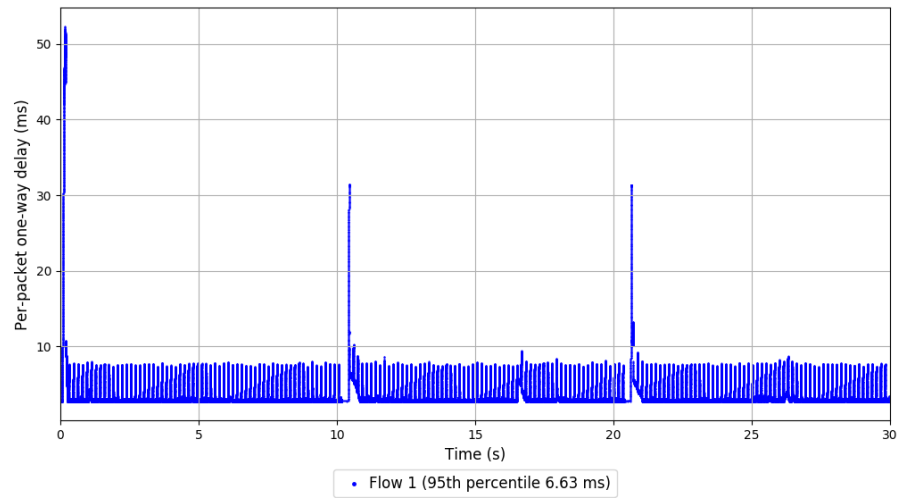
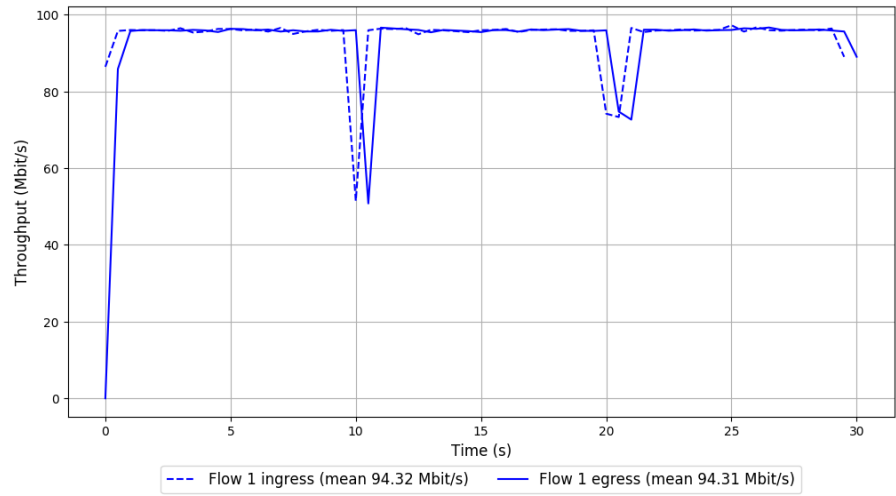
-- Flow 1:

Average throughput: 94.31 Mbit/s

95th percentile per-packet one-way delay: 6.627 ms

Loss rate: 0.02%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-07-12 10:04:12

End at: 2019-07-12 10:04:42

Local clock offset: -7.01 ms

Remote clock offset: -0.179 ms

Below is generated by plot.py at 2019-07-12 12:24:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.16 Mbit/s

95th percentile per-packet one-way delay: 4.792 ms

Loss rate: 0.03%

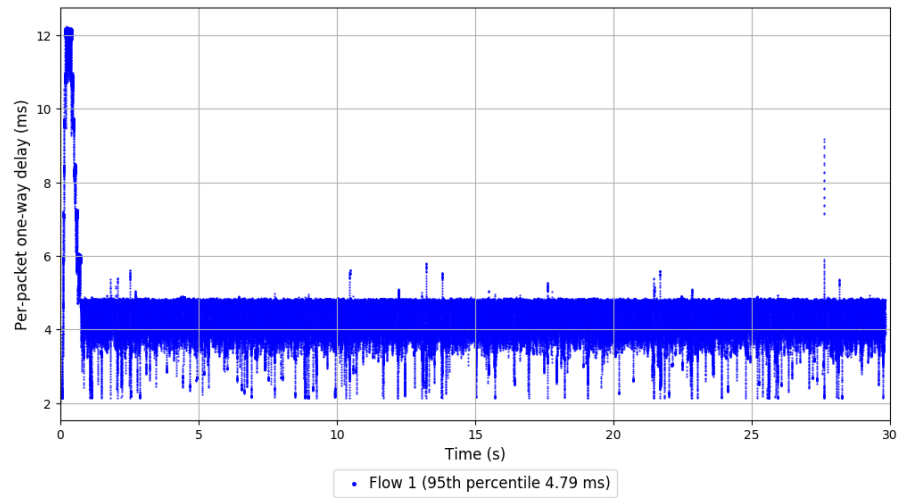
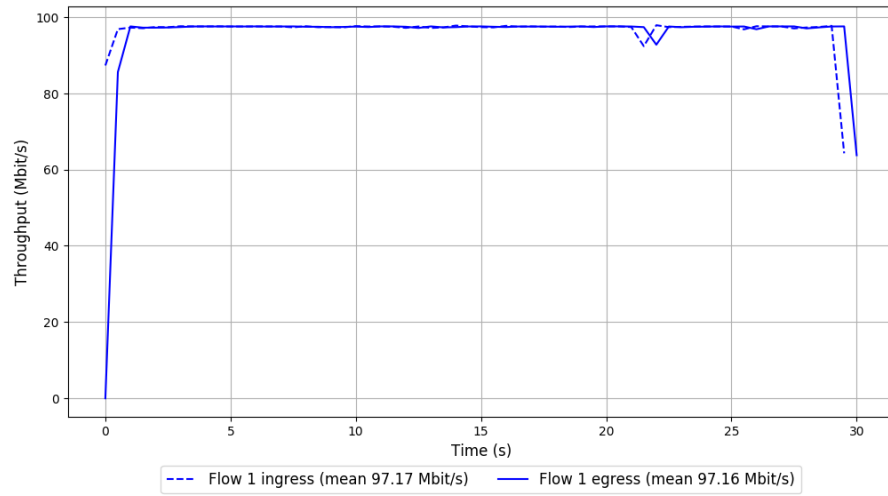
-- Flow 1:

Average throughput: 97.16 Mbit/s

95th percentile per-packet one-way delay: 4.792 ms

Loss rate: 0.03%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-07-12 10:31:14

End at: 2019-07-12 10:31:44

Local clock offset: -7.58 ms

Remote clock offset: 0.158 ms

Below is generated by plot.py at 2019-07-12 12:24:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.13 Mbit/s

95th percentile per-packet one-way delay: 4.182 ms

Loss rate: 0.03%

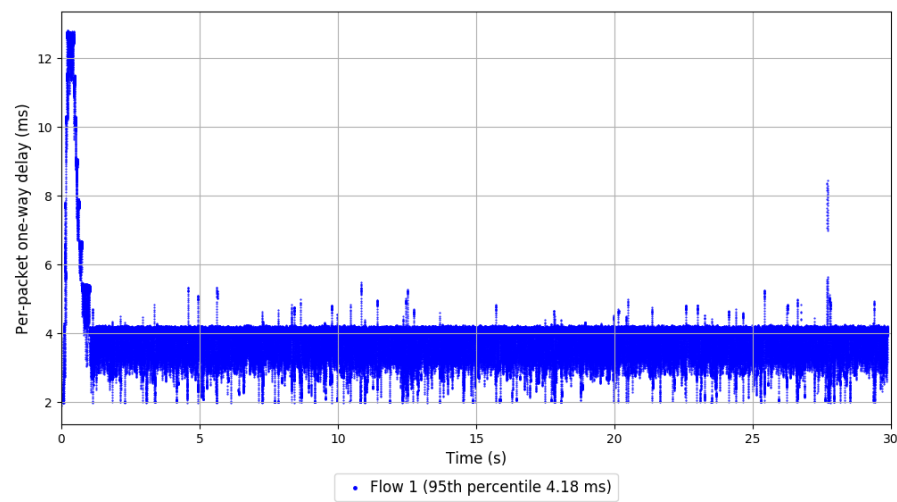
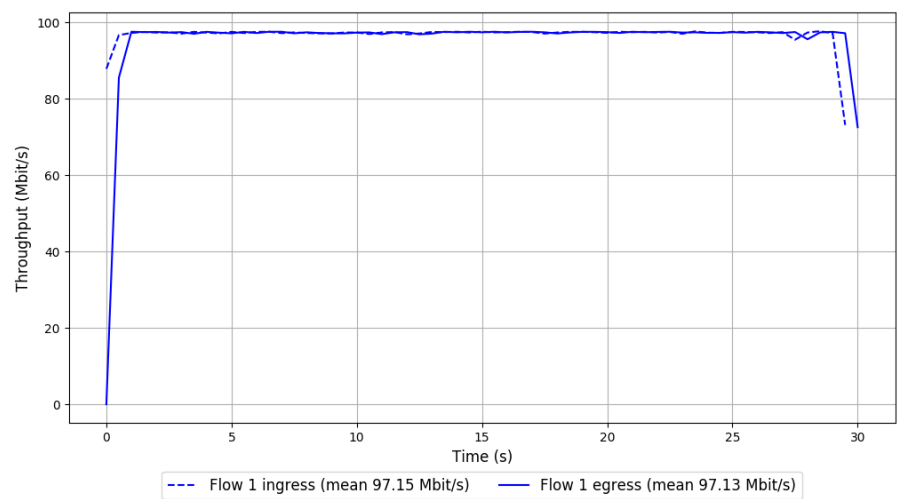
-- Flow 1:

Average throughput: 97.13 Mbit/s

95th percentile per-packet one-way delay: 4.182 ms

Loss rate: 0.03%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-07-12 10:58:23

End at: 2019-07-12 10:58:54

Local clock offset: -7.61 ms

Remote clock offset: 0.509 ms

Below is generated by plot.py at 2019-07-12 12:25:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.29 Mbit/s

95th percentile per-packet one-way delay: 4.566 ms

Loss rate: 0.02%

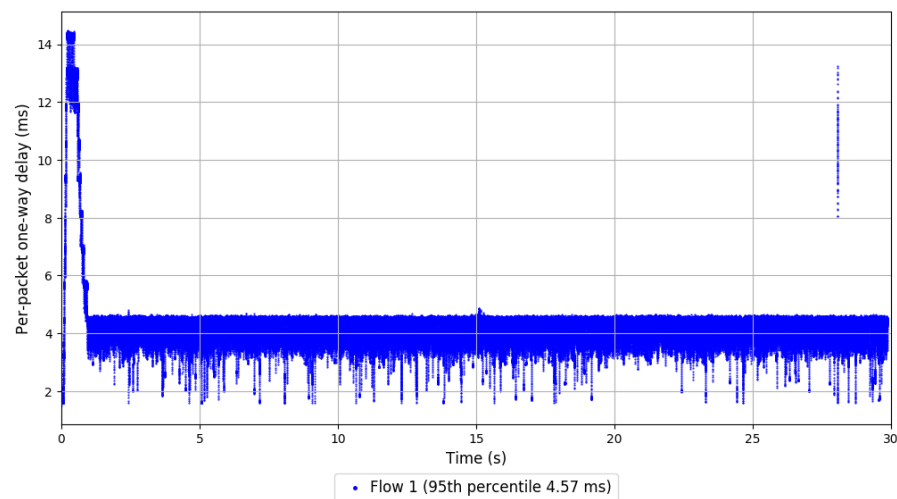
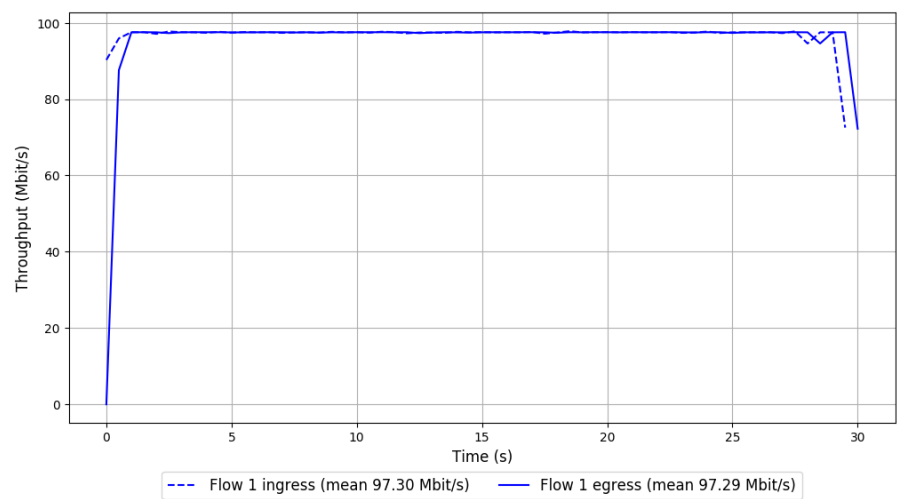
-- Flow 1:

Average throughput: 97.29 Mbit/s

95th percentile per-packet one-way delay: 4.566 ms

Loss rate: 0.02%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-07-12 11:25:30

End at: 2019-07-12 11:26:00

Local clock offset: -7.777 ms

Remote clock offset: 0.672 ms

Below is generated by plot.py at 2019-07-12 12:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.29 Mbit/s

95th percentile per-packet one-way delay: 4.277 ms

Loss rate: 0.02%

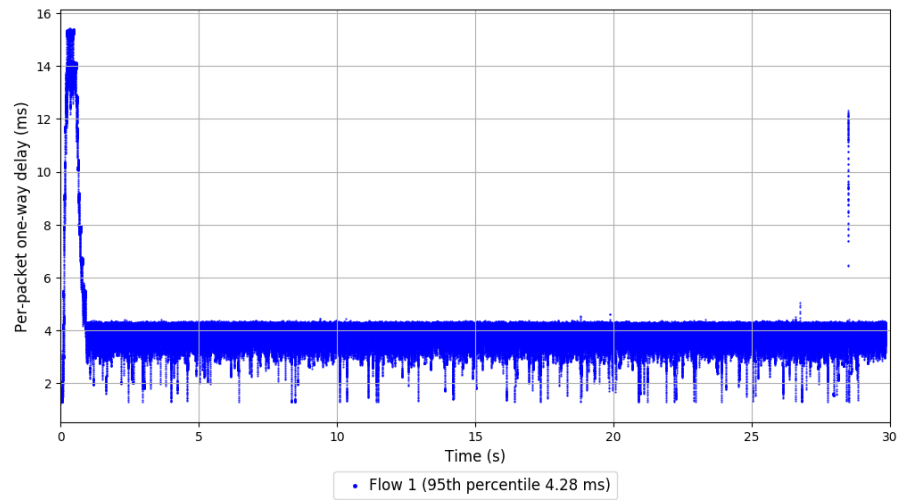
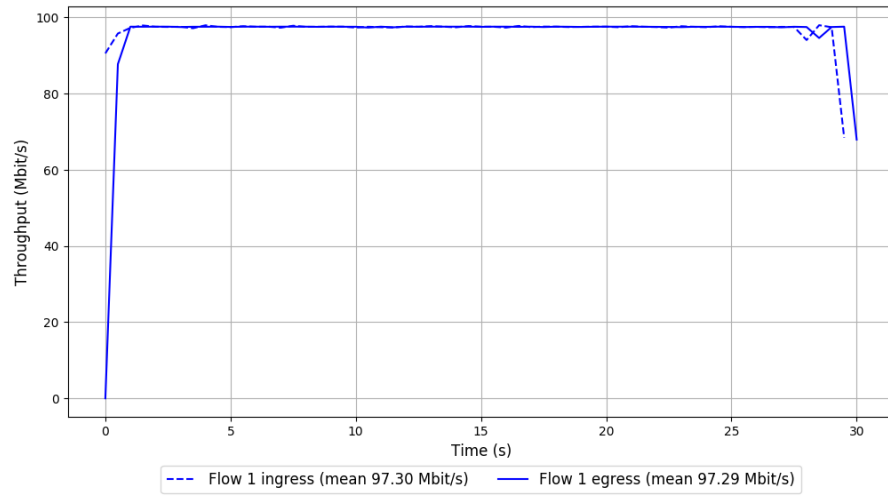
-- Flow 1:

Average throughput: 97.29 Mbit/s

95th percentile per-packet one-way delay: 4.277 ms

Loss rate: 0.02%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-07-12 11:52:36

End at: 2019-07-12 11:53:06

Local clock offset: -5.85 ms

Remote clock offset: 0.648 ms

Below is generated by plot.py at 2019-07-12 12:25:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.27 Mbit/s

95th percentile per-packet one-way delay: 5.130 ms

Loss rate: 0.02%

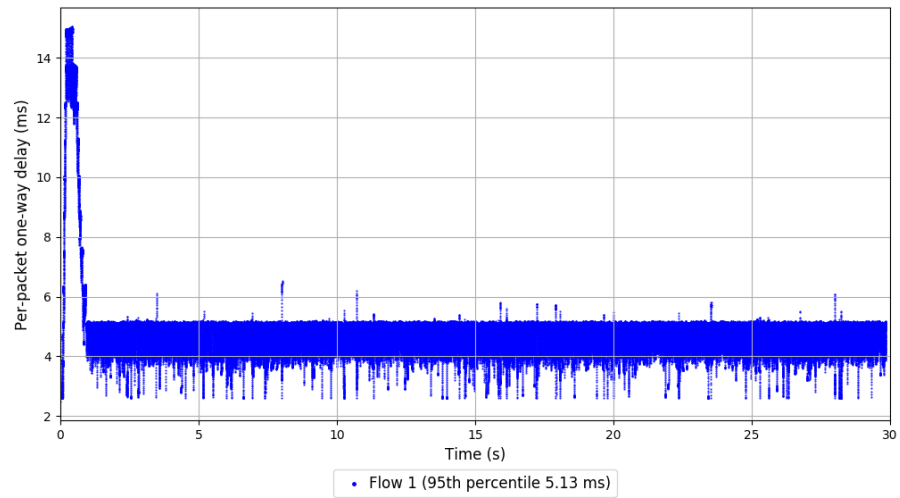
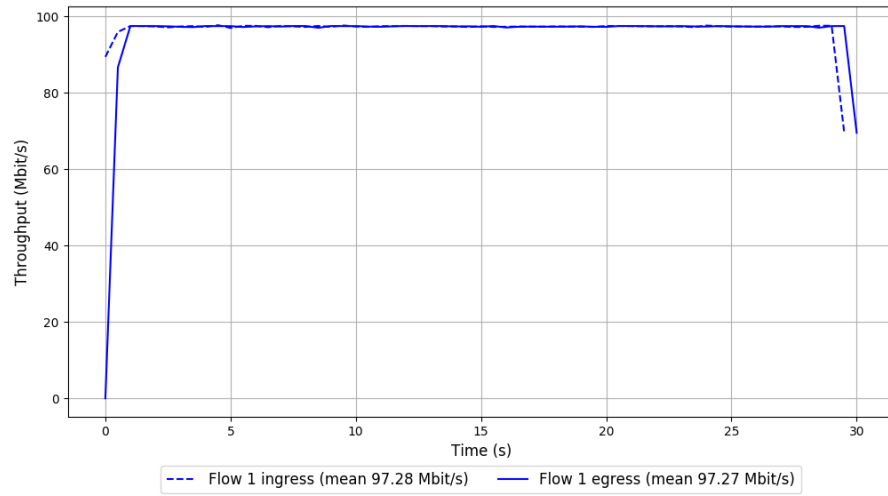
-- Flow 1:

Average throughput: 97.27 Mbit/s

95th percentile per-packet one-way delay: 5.130 ms

Loss rate: 0.02%

Run 5: Report of Indigo — Data Link

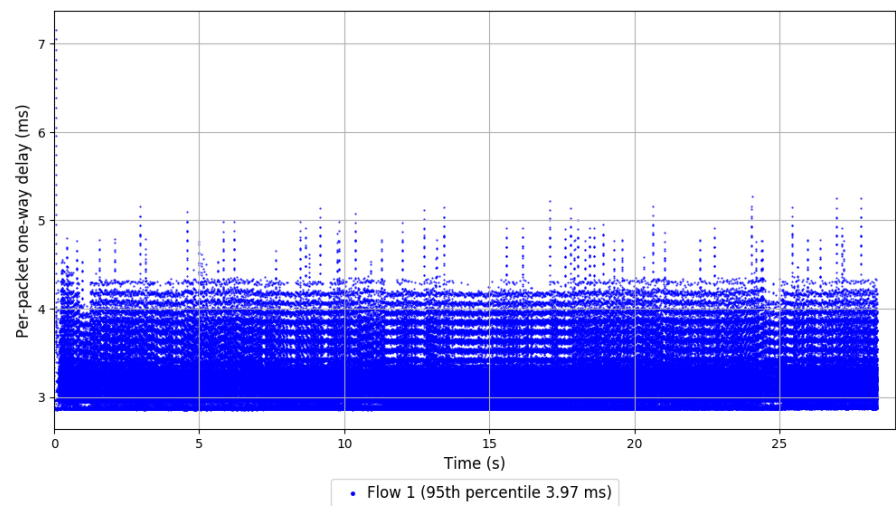
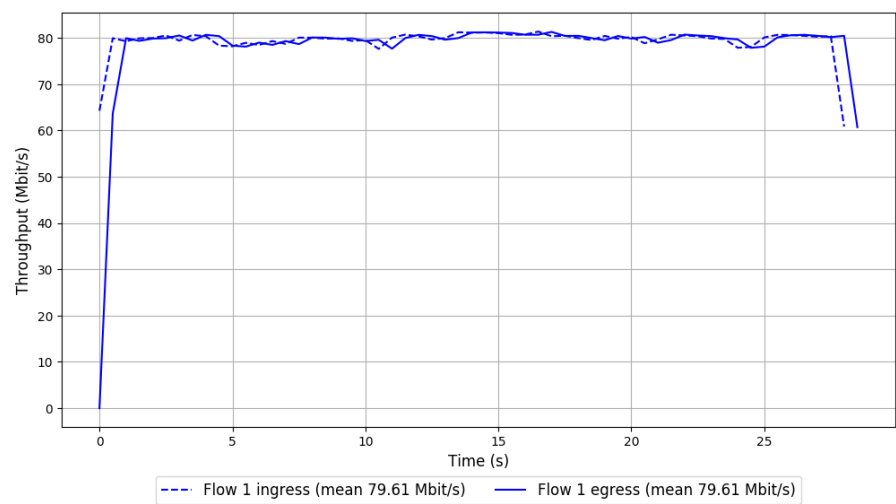


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-07-12 10:22:16
End at: 2019-07-12 10:22:46
Local clock offset: -6.746 ms
Remote clock offset: -0.042 ms

Below is generated by plot.py at 2019-07-12 12:25:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.61 Mbit/s
95th percentile per-packet one-way delay: 3.967 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 79.61 Mbit/s
95th percentile per-packet one-way delay: 3.967 ms
Loss rate: 0.02%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-07-12 10:49:21

End at: 2019-07-12 10:49:51

Local clock offset: -6.763 ms

Remote clock offset: 0.4 ms

Below is generated by plot.py at 2019-07-12 12:25:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.59 Mbit/s

95th percentile per-packet one-way delay: 4.403 ms

Loss rate: 0.02%

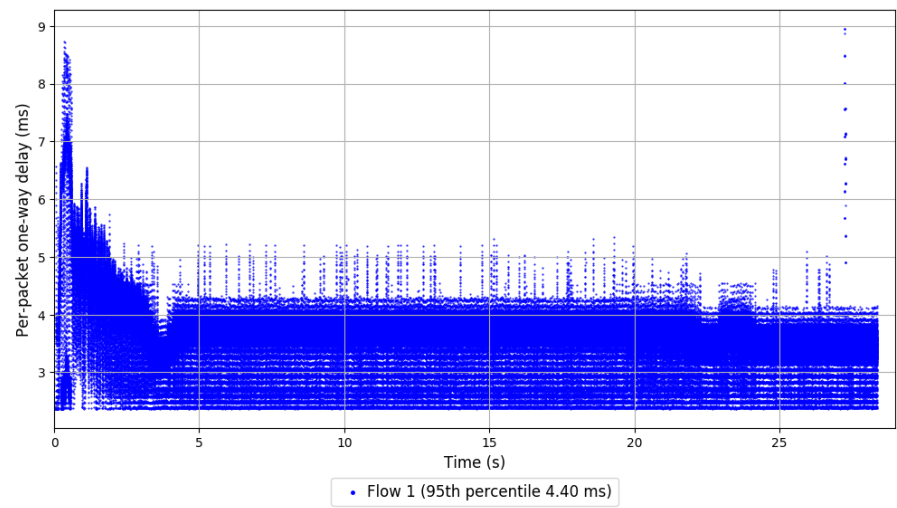
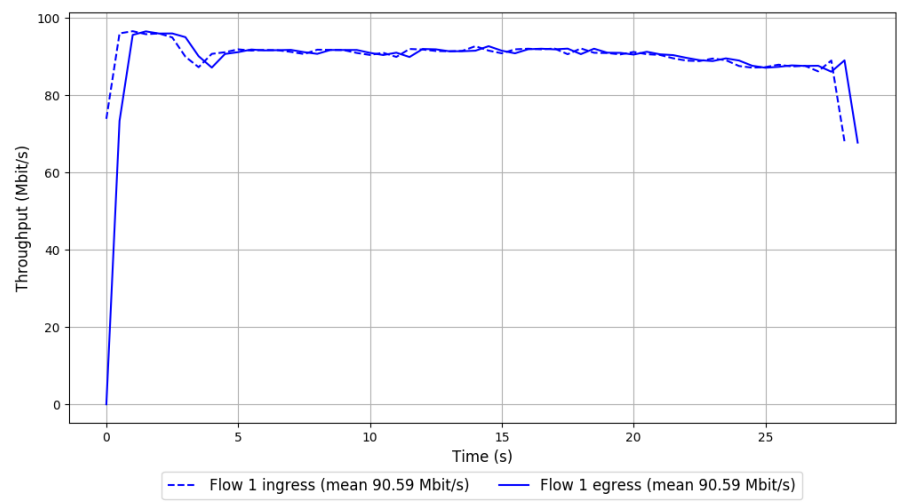
-- Flow 1:

Average throughput: 90.59 Mbit/s

95th percentile per-packet one-way delay: 4.403 ms

Loss rate: 0.02%

Run 2: Report of Indigo-MusesC3 — Data Link

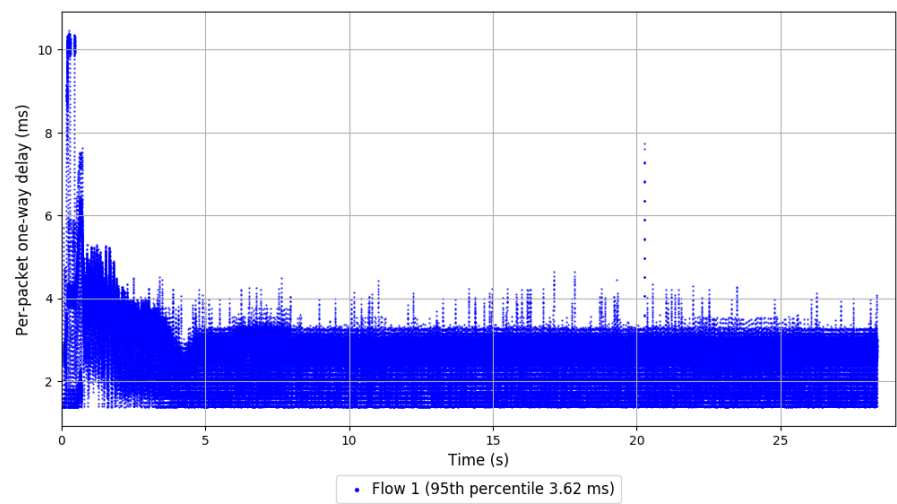
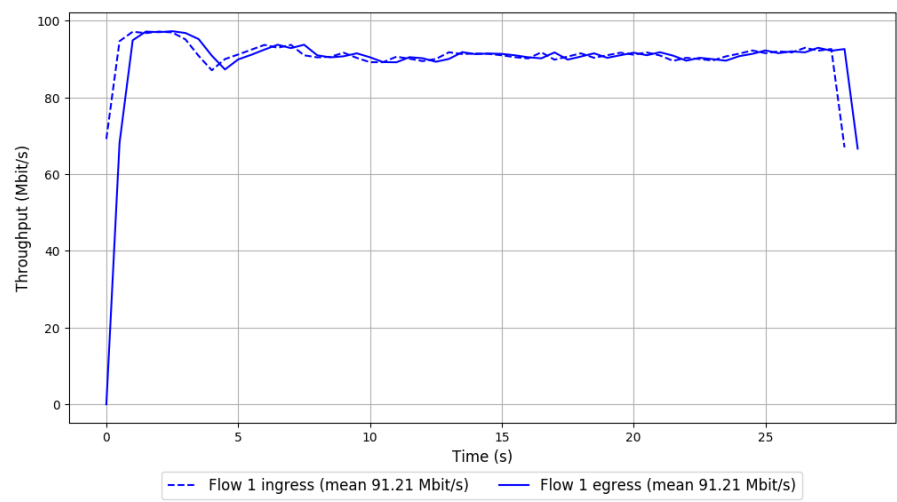


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-07-12 11:16:30
End at: 2019-07-12 11:17:00
Local clock offset: -7.793 ms
Remote clock offset: 0.524 ms

Below is generated by plot.py at 2019-07-12 12:25:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.21 Mbit/s
95th percentile per-packet one-way delay: 3.615 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 91.21 Mbit/s
95th percentile per-packet one-way delay: 3.615 ms
Loss rate: 0.02%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-07-12 11:43:36

End at: 2019-07-12 11:44:06

Local clock offset: -6.62 ms

Remote clock offset: 0.643 ms

Below is generated by plot.py at 2019-07-12 12:25:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.40 Mbit/s

95th percentile per-packet one-way delay: 2.990 ms

Loss rate: 0.02%

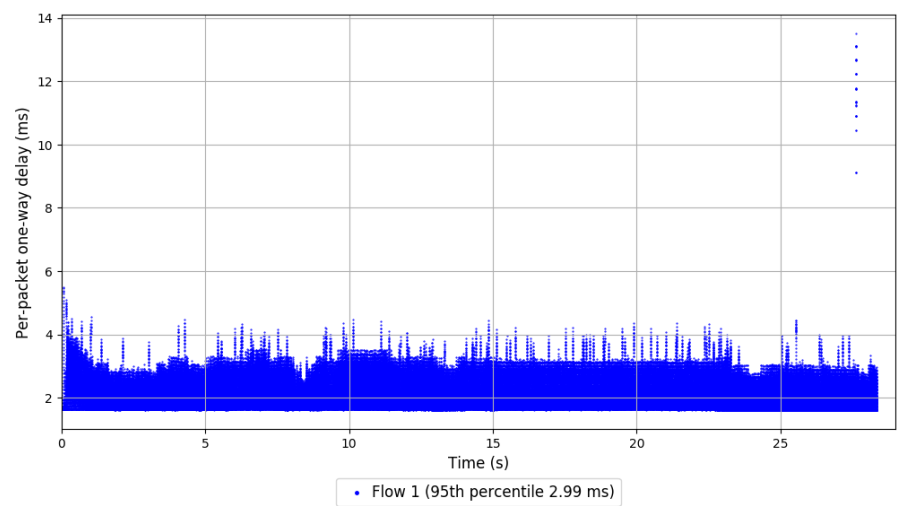
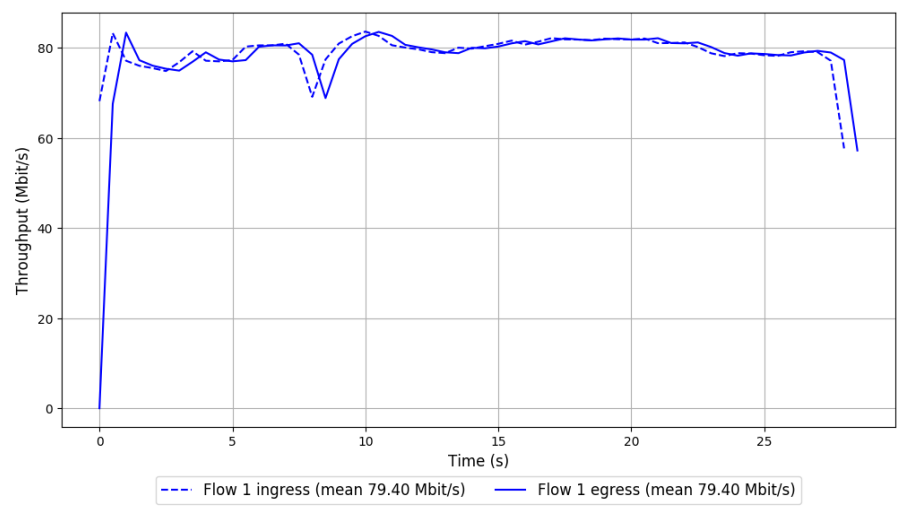
-- Flow 1:

Average throughput: 79.40 Mbit/s

95th percentile per-packet one-way delay: 2.990 ms

Loss rate: 0.02%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-07-12 12:10:43

End at: 2019-07-12 12:11:13

Local clock offset: -7.491 ms

Remote clock offset: 0.525 ms

Below is generated by plot.py at 2019-07-12 12:26:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.53 Mbit/s

95th percentile per-packet one-way delay: 2.972 ms

Loss rate: 0.02%

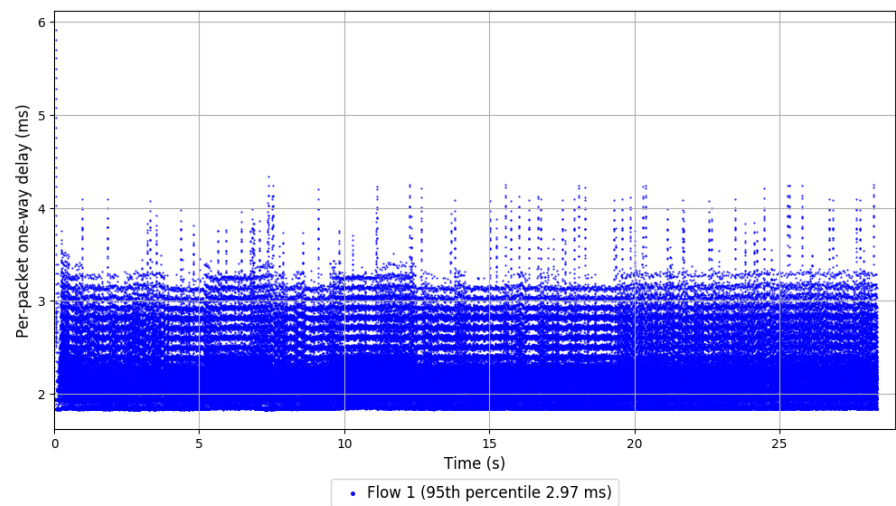
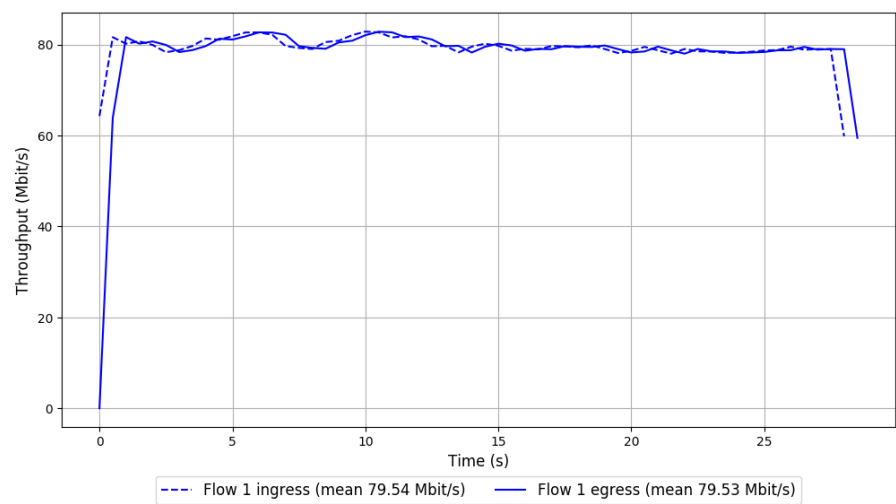
-- Flow 1:

Average throughput: 79.53 Mbit/s

95th percentile per-packet one-way delay: 2.972 ms

Loss rate: 0.02%

Run 5: Report of Indigo-MusesC3 — Data Link

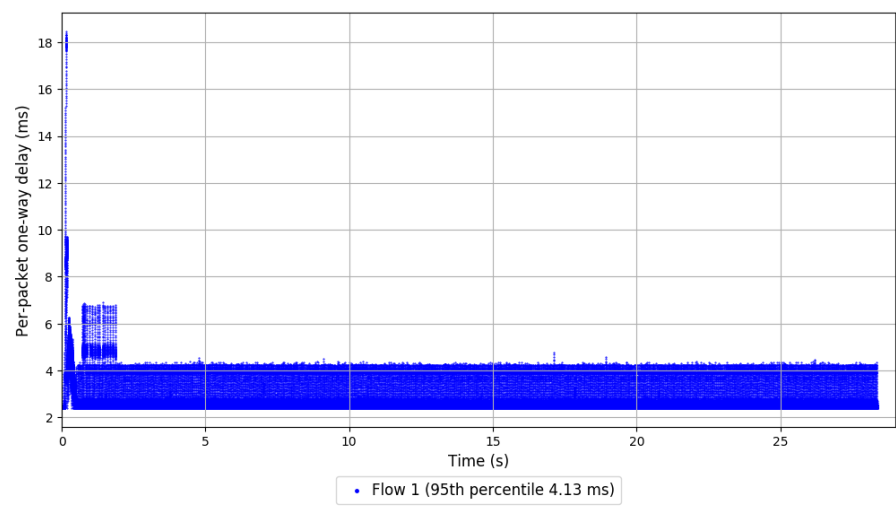
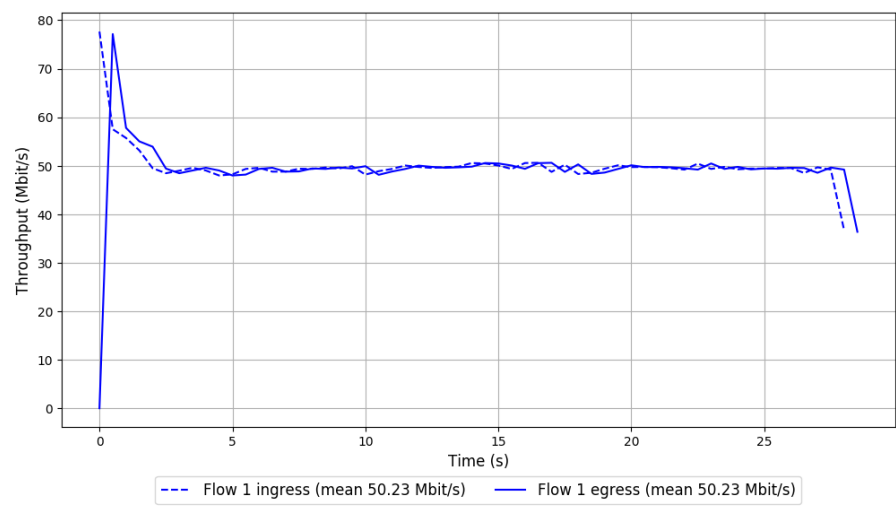


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-07-12 10:13:14
End at: 2019-07-12 10:13:44
Local clock offset: -6.701 ms
Remote clock offset: -0.123 ms

Below is generated by plot.py at 2019-07-12 12:26:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.23 Mbit/s
95th percentile per-packet one-way delay: 4.131 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 50.23 Mbit/s
95th percentile per-packet one-way delay: 4.131 ms
Loss rate: 0.02%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-07-12 10:40:18

End at: 2019-07-12 10:40:48

Local clock offset: -7.76 ms

Remote clock offset: 0.293 ms

Below is generated by plot.py at 2019-07-12 12:26:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.82 Mbit/s

95th percentile per-packet one-way delay: 2.778 ms

Loss rate: 0.03%

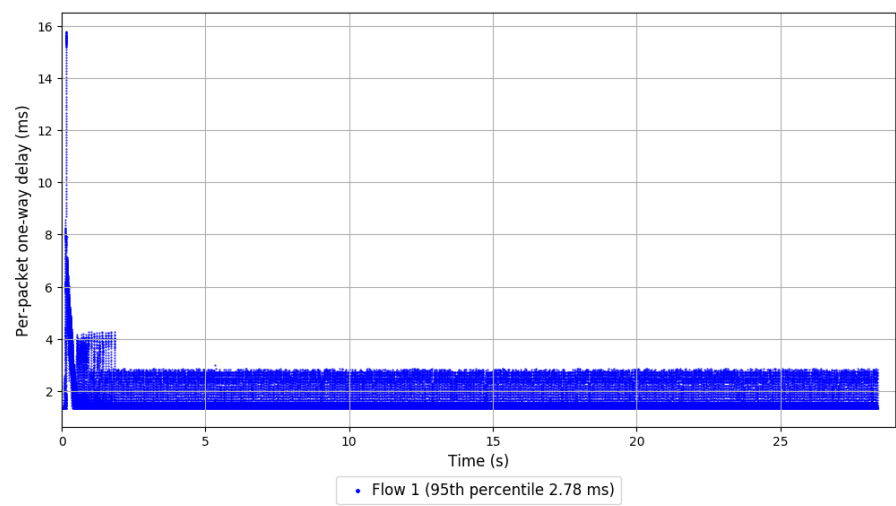
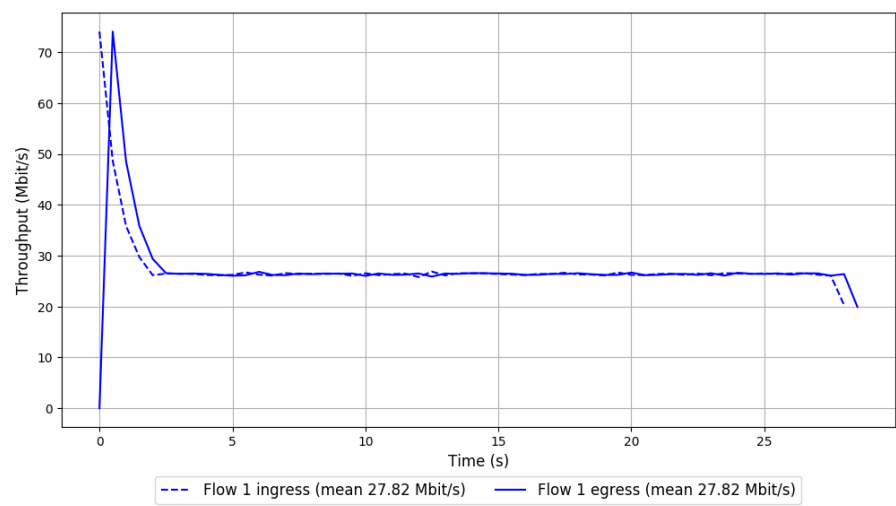
-- Flow 1:

Average throughput: 27.82 Mbit/s

95th percentile per-packet one-way delay: 2.778 ms

Loss rate: 0.03%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-07-12 11:07:27

End at: 2019-07-12 11:07:57

Local clock offset: -6.71 ms

Remote clock offset: 0.476 ms

Below is generated by plot.py at 2019-07-12 12:26:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.78 Mbit/s

95th percentile per-packet one-way delay: 3.566 ms

Loss rate: 0.02%

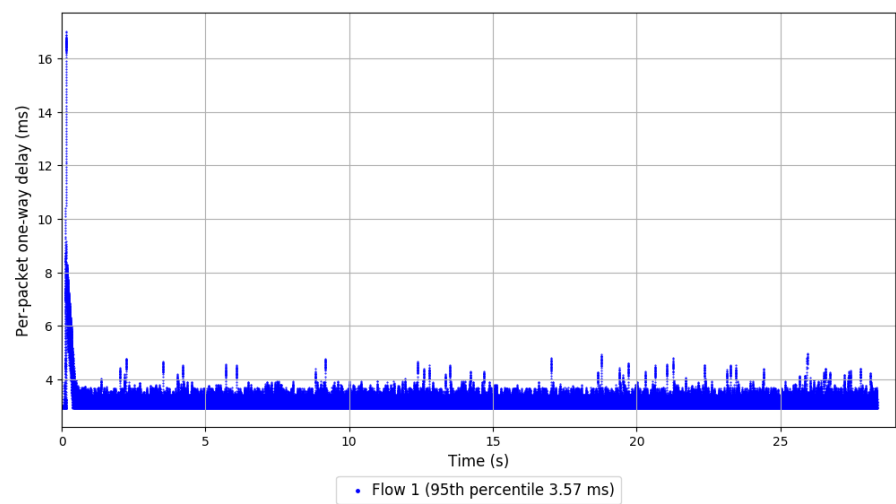
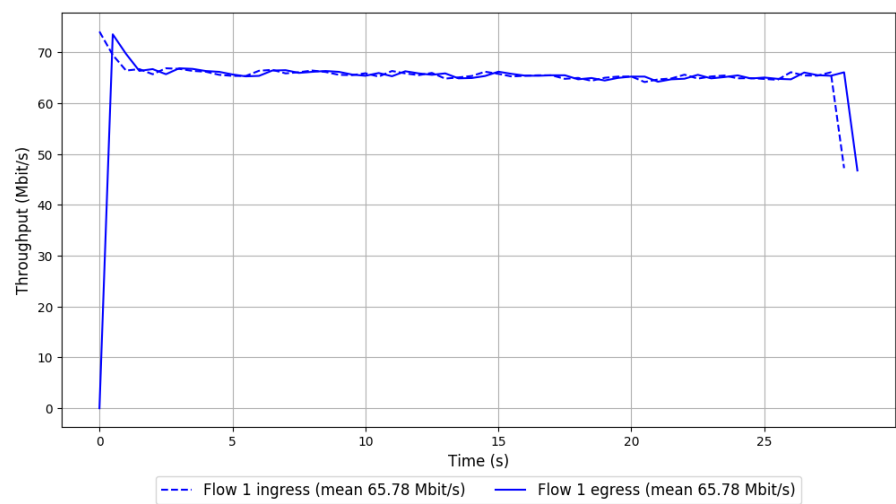
-- Flow 1:

Average throughput: 65.78 Mbit/s

95th percentile per-packet one-way delay: 3.566 ms

Loss rate: 0.02%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-07-12 11:34:33

End at: 2019-07-12 11:35:03

Local clock offset: -7.262 ms

Remote clock offset: 0.667 ms

Below is generated by plot.py at 2019-07-12 12:26:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.63 Mbit/s

95th percentile per-packet one-way delay: 1.689 ms

Loss rate: 0.02%

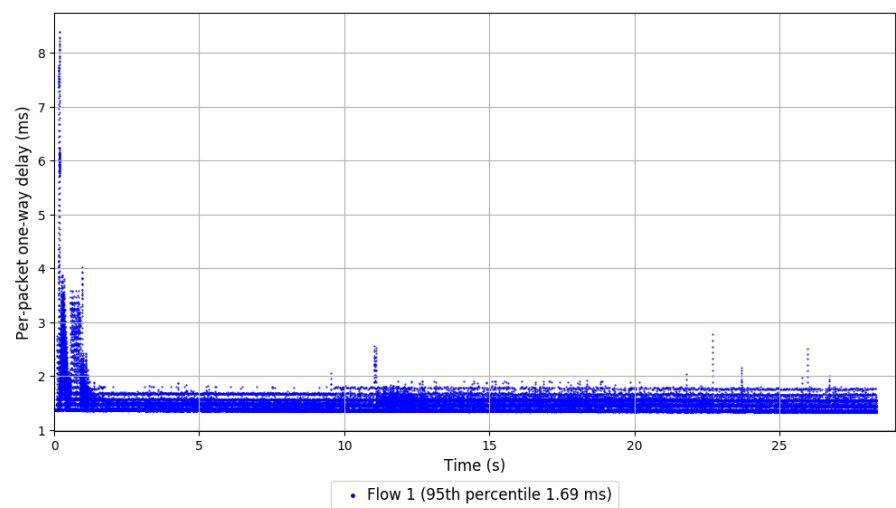
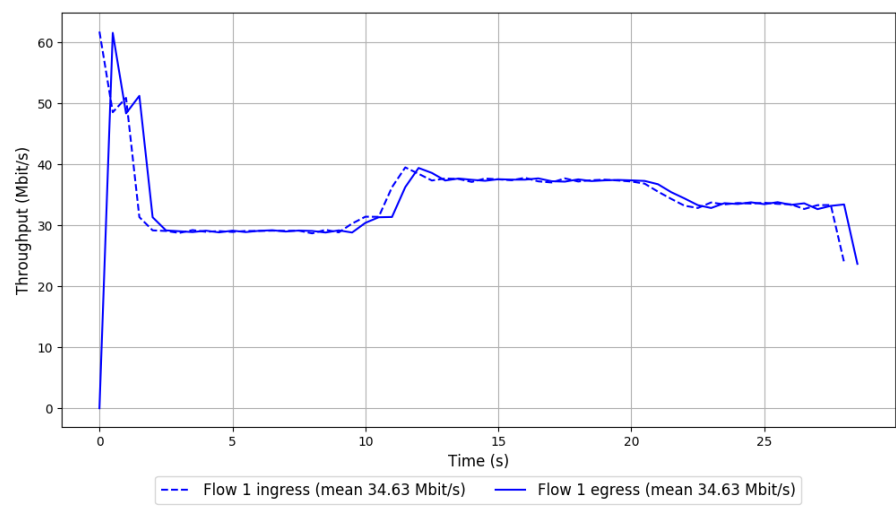
-- Flow 1:

Average throughput: 34.63 Mbit/s

95th percentile per-packet one-way delay: 1.689 ms

Loss rate: 0.02%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-07-12 12:01:41

End at: 2019-07-12 12:02:11

Local clock offset: -6.862 ms

Remote clock offset: 0.618 ms

Below is generated by plot.py at 2019-07-12 12:26:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.40 Mbit/s

95th percentile per-packet one-way delay: 3.647 ms

Loss rate: 0.01%

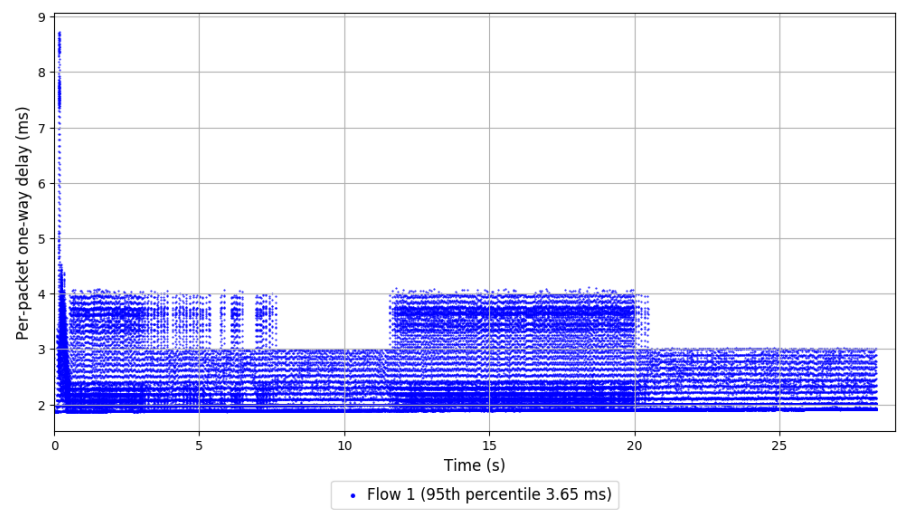
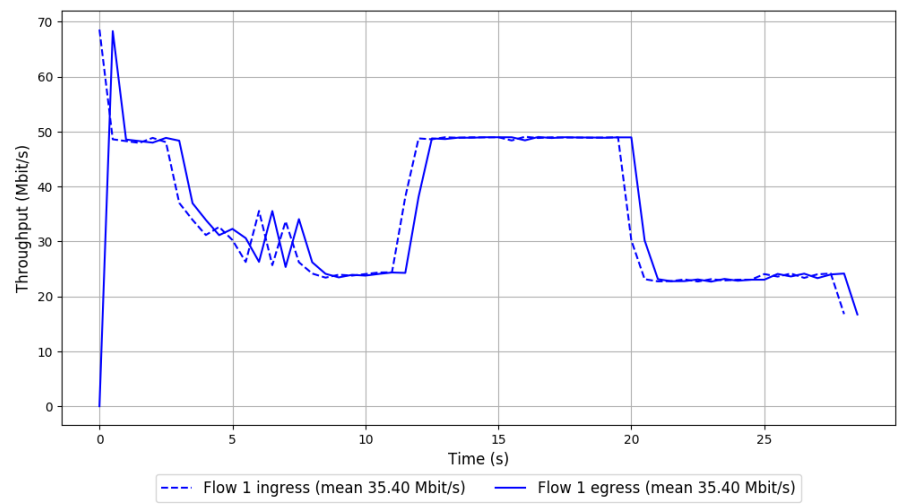
-- Flow 1:

Average throughput: 35.40 Mbit/s

95th percentile per-packet one-way delay: 3.647 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesC5 — Data Link

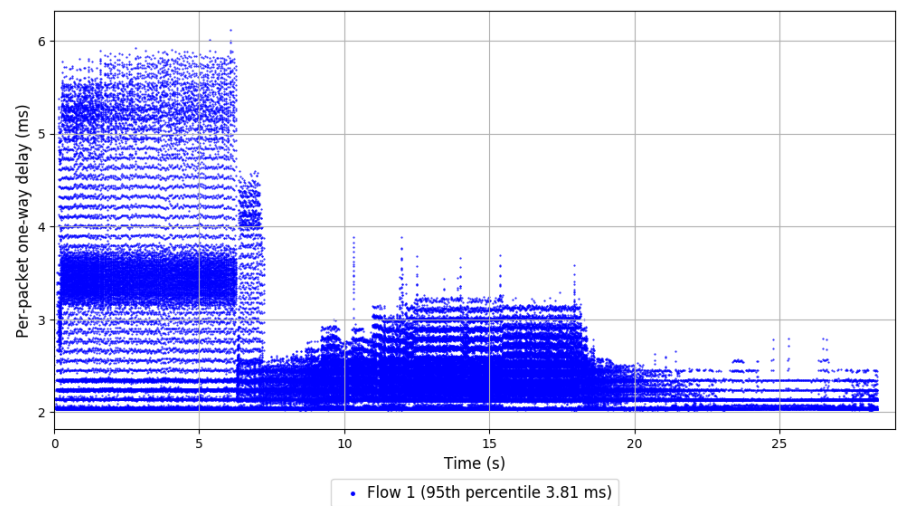
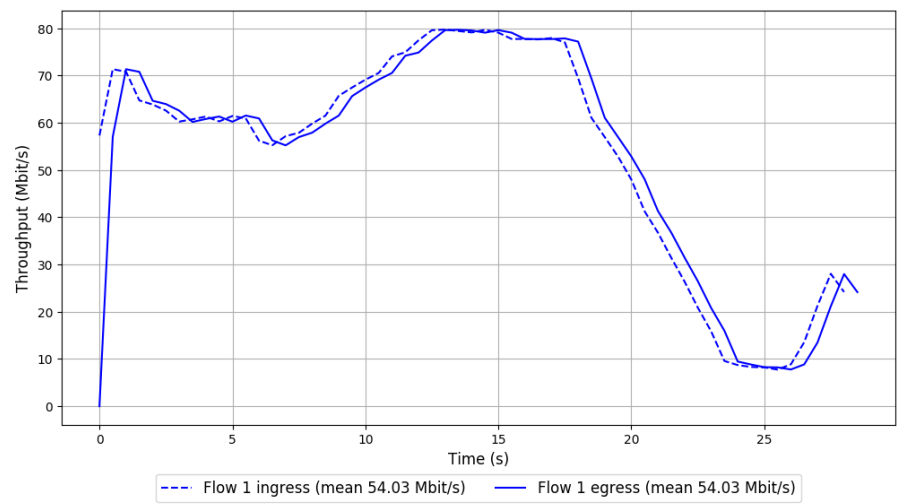



```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-07-12 10:05:22
End at: 2019-07-12 10:05:52
Local clock offset: -7.566 ms
Remote clock offset: -0.175 ms

# Below is generated by plot.py at 2019-07-12 12:26:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.03 Mbit/s
95th percentile per-packet one-way delay: 3.813 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 54.03 Mbit/s
95th percentile per-packet one-way delay: 3.813 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-07-12 10:32:24

End at: 2019-07-12 10:32:54

Local clock offset: -7.577 ms

Remote clock offset: 0.178 ms

Below is generated by plot.py at 2019-07-12 12:26:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.20 Mbit/s

95th percentile per-packet one-way delay: 2.096 ms

Loss rate: 0.01%

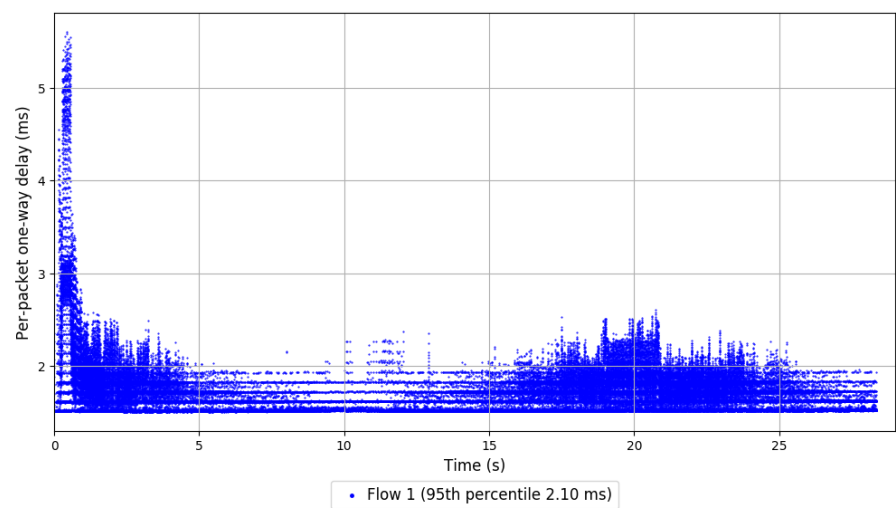
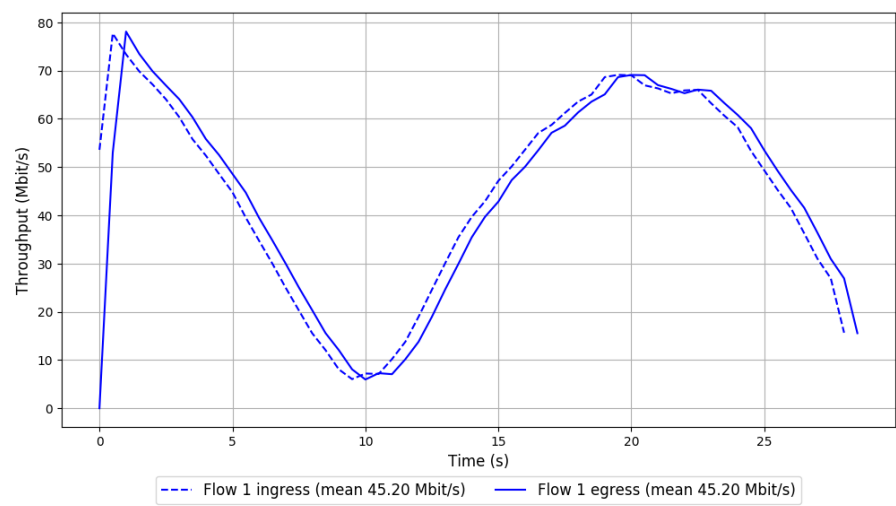
-- Flow 1:

Average throughput: 45.20 Mbit/s

95th percentile per-packet one-way delay: 2.096 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-07-12 10:59:33

End at: 2019-07-12 11:00:03

Local clock offset: -7.098 ms

Remote clock offset: 0.457 ms

Below is generated by plot.py at 2019-07-12 12:26:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.67 Mbit/s

95th percentile per-packet one-way delay: 5.645 ms

Loss rate: 0.02%

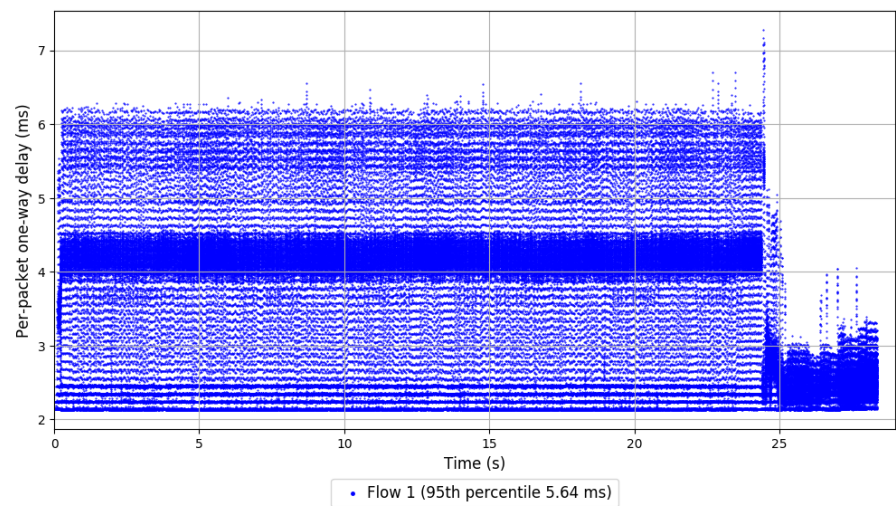
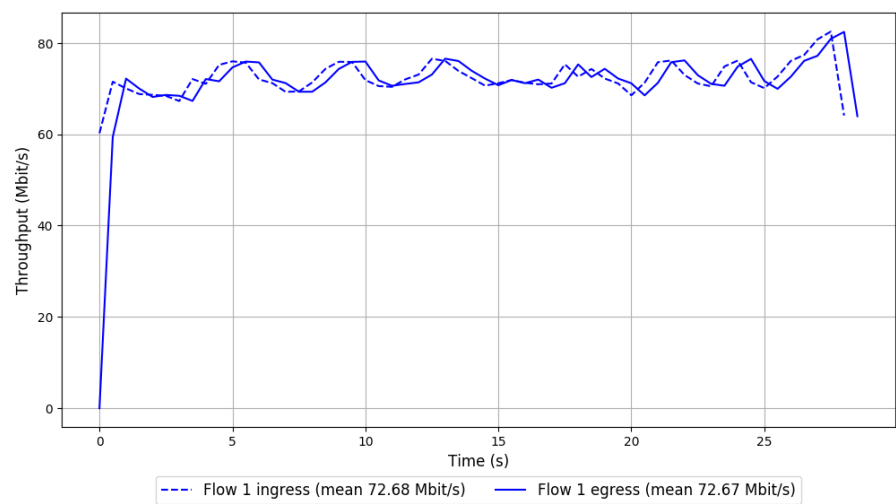
-- Flow 1:

Average throughput: 72.67 Mbit/s

95th percentile per-packet one-way delay: 5.645 ms

Loss rate: 0.02%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-07-12 11:26:40

End at: 2019-07-12 11:27:10

Local clock offset: -7.694 ms

Remote clock offset: 0.663 ms

Below is generated by plot.py at 2019-07-12 12:26:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.40 Mbit/s

95th percentile per-packet one-way delay: 2.708 ms

Loss rate: 0.02%

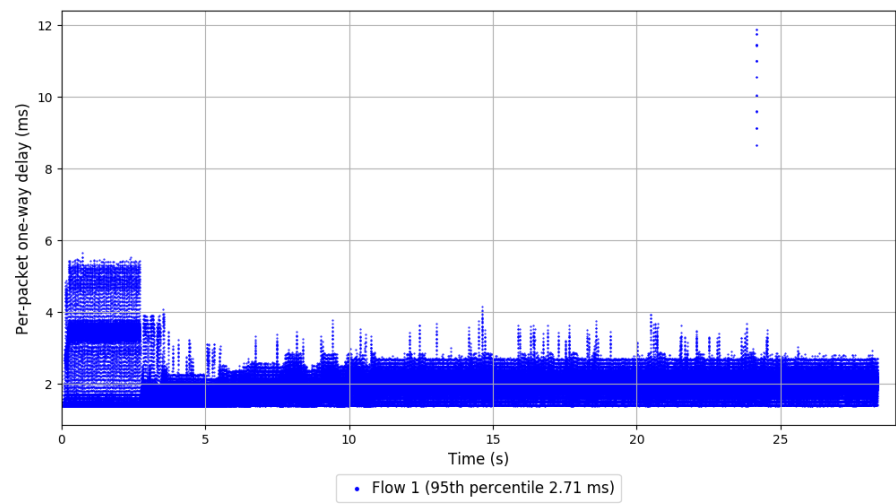
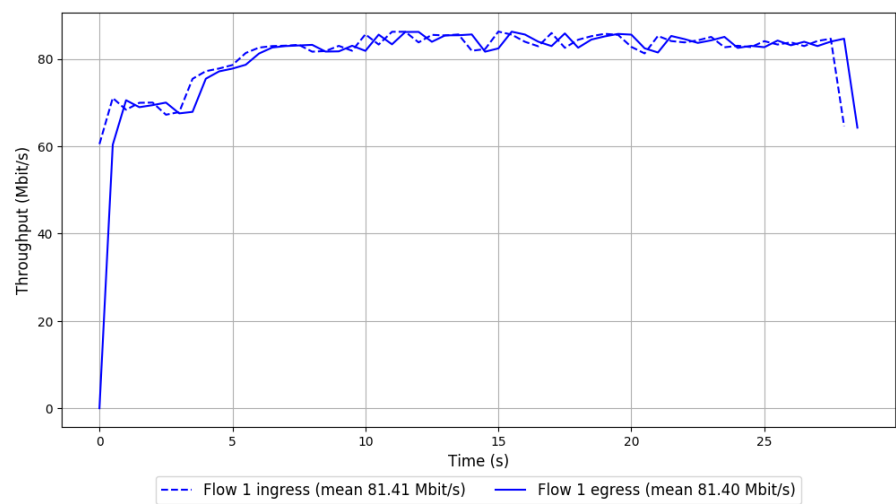
-- Flow 1:

Average throughput: 81.40 Mbit/s

95th percentile per-packet one-way delay: 2.708 ms

Loss rate: 0.02%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-07-12 11:53:46

End at: 2019-07-12 11:54:16

Local clock offset: -5.638 ms

Remote clock offset: 0.501 ms

Below is generated by plot.py at 2019-07-12 12:26:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.30 Mbit/s

95th percentile per-packet one-way delay: 4.606 ms

Loss rate: 0.02%

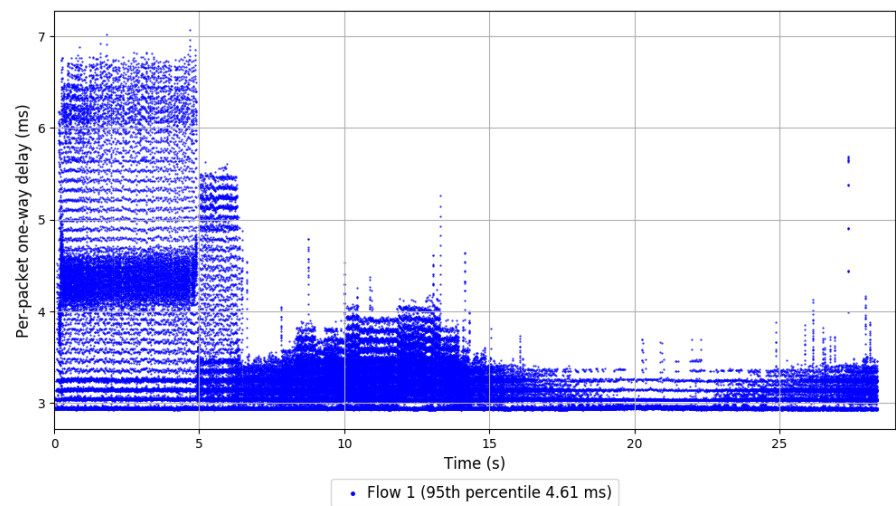
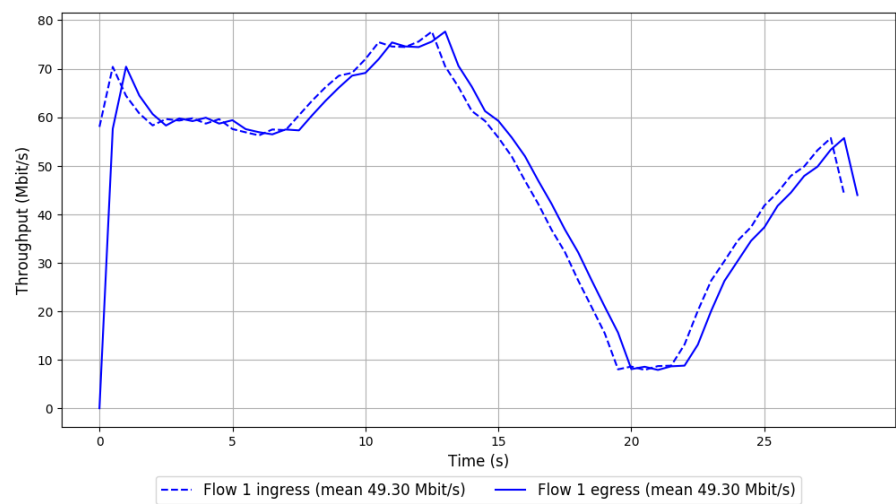
-- Flow 1:

Average throughput: 49.30 Mbit/s

95th percentile per-packet one-way delay: 4.606 ms

Loss rate: 0.02%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-07-12 10:21:09

End at: 2019-07-12 10:21:39

Local clock offset: -7.474 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2019-07-12 12:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.38 Mbit/s

95th percentile per-packet one-way delay: 2.894 ms

Loss rate: 0.02%

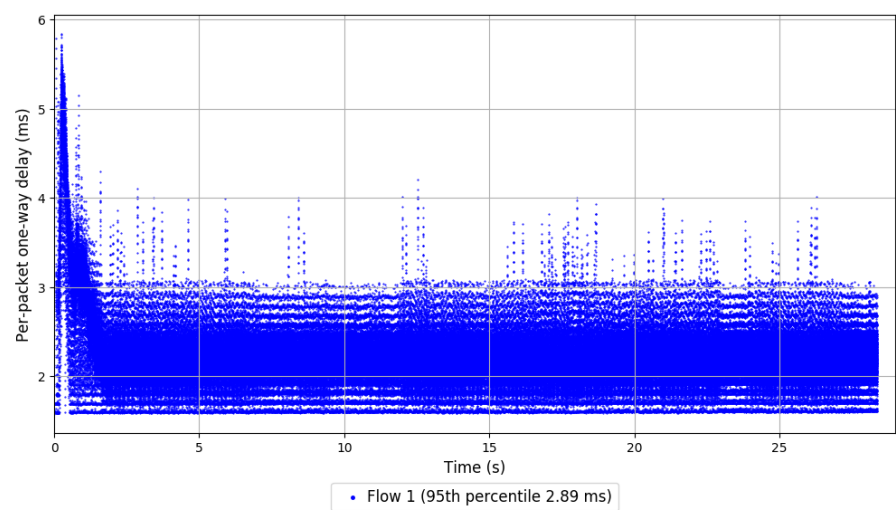
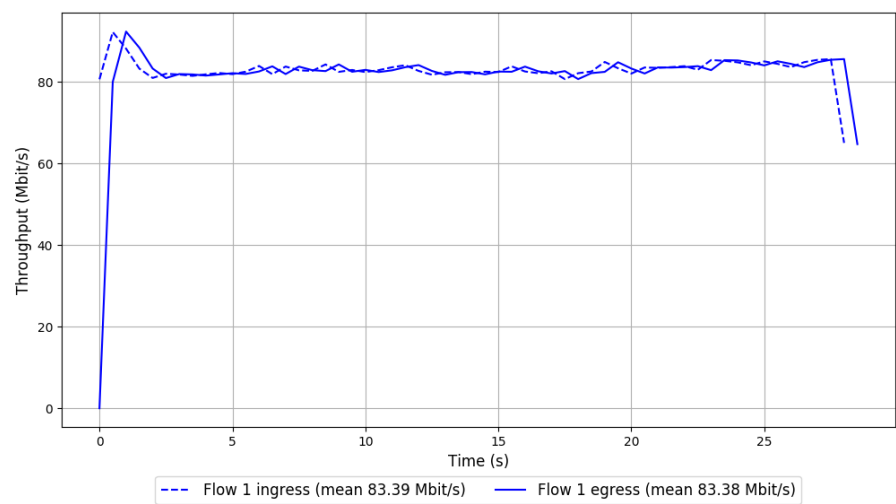
-- Flow 1:

Average throughput: 83.38 Mbit/s

95th percentile per-packet one-way delay: 2.894 ms

Loss rate: 0.02%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-07-12 10:48:13

End at: 2019-07-12 10:48:43

Local clock offset: -6.821 ms

Remote clock offset: 0.294 ms

Below is generated by plot.py at 2019-07-12 12:27:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.01 Mbit/s

95th percentile per-packet one-way delay: 3.991 ms

Loss rate: 0.01%

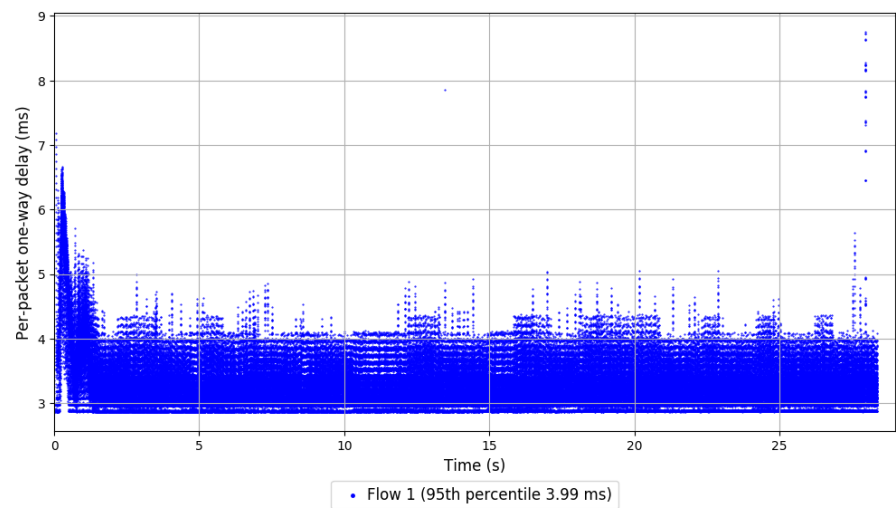
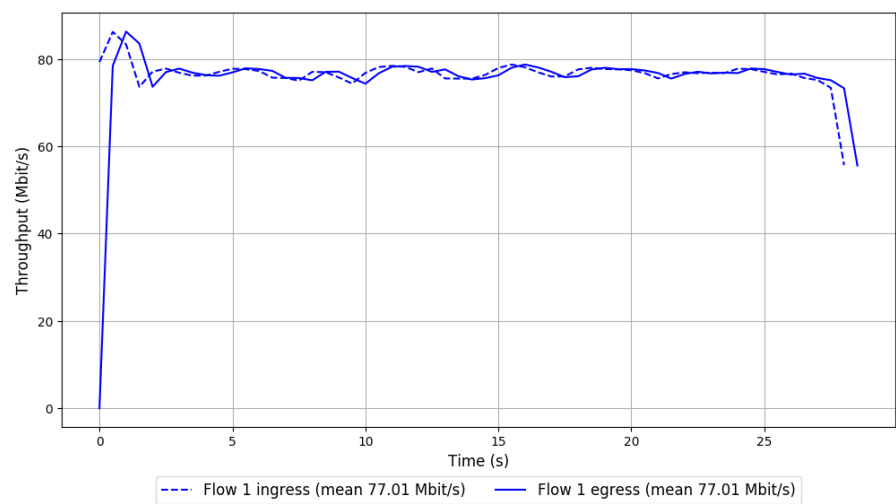
-- Flow 1:

Average throughput: 77.01 Mbit/s

95th percentile per-packet one-way delay: 3.991 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-07-12 11:15:22

End at: 2019-07-12 11:15:52

Local clock offset: -7.553 ms

Remote clock offset: 0.548 ms

Below is generated by plot.py at 2019-07-12 12:27:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.11 Mbit/s

95th percentile per-packet one-way delay: 2.968 ms

Loss rate: 0.02%

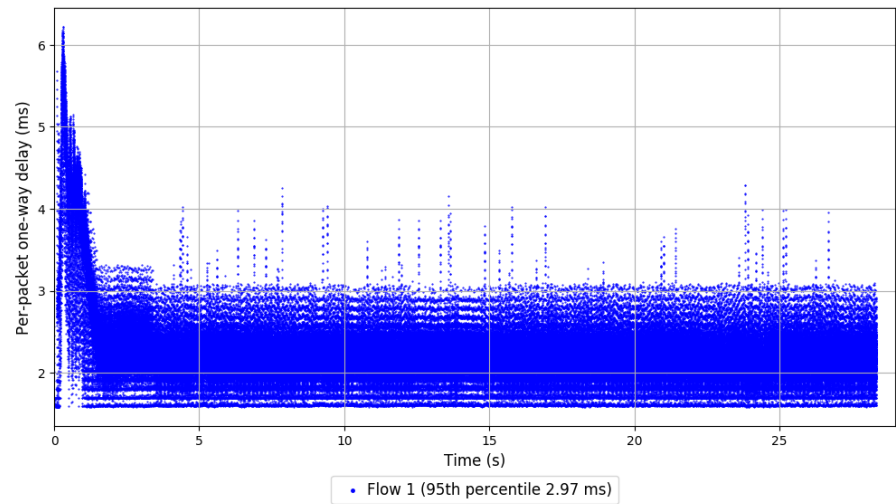
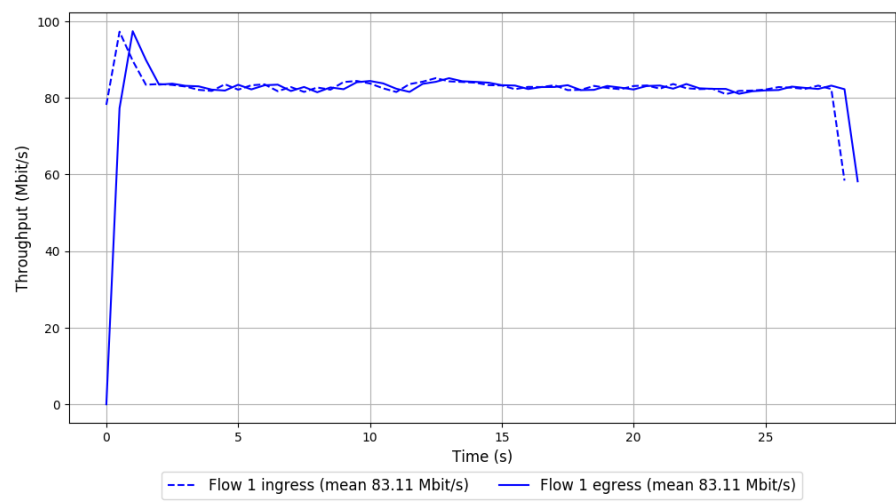
-- Flow 1:

Average throughput: 83.11 Mbit/s

95th percentile per-packet one-way delay: 2.968 ms

Loss rate: 0.02%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-07-12 11:42:28

End at: 2019-07-12 11:42:58

Local clock offset: -6.669 ms

Remote clock offset: 0.717 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.99 Mbit/s

95th percentile per-packet one-way delay: 4.103 ms

Loss rate: 0.02%

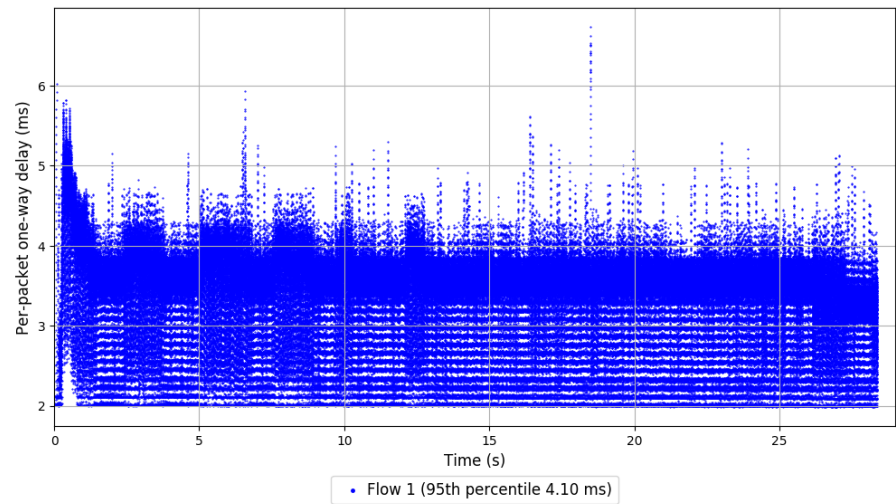
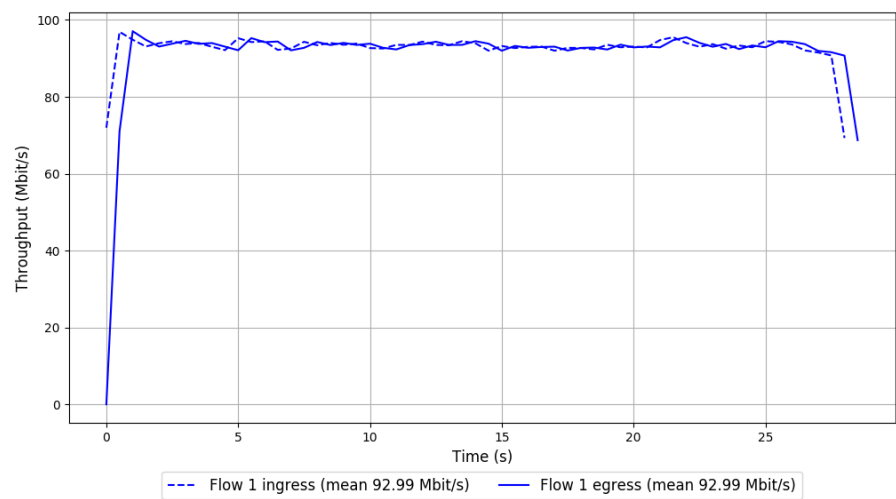
-- Flow 1:

Average throughput: 92.99 Mbit/s

95th percentile per-packet one-way delay: 4.103 ms

Loss rate: 0.02%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-07-12 12:09:36

End at: 2019-07-12 12:10:06

Local clock offset: -6.376 ms

Remote clock offset: 0.536 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.37 Mbit/s

95th percentile per-packet one-way delay: 4.021 ms

Loss rate: 0.02%

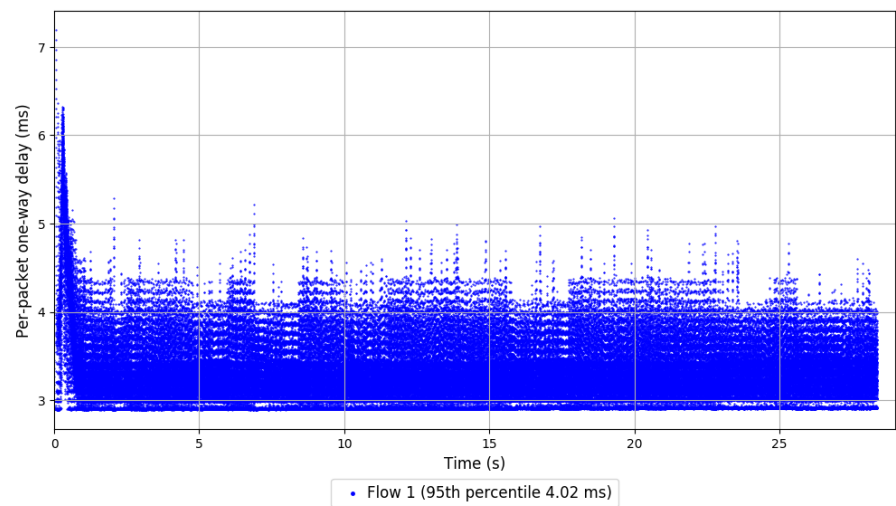
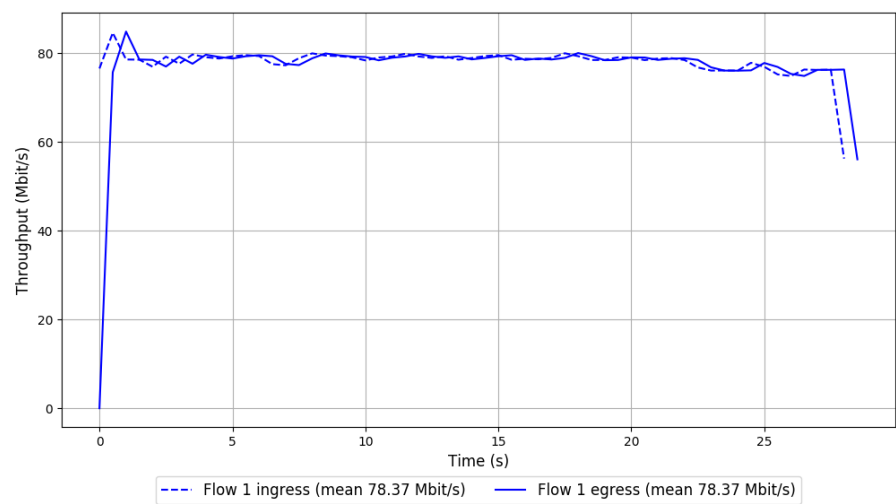
-- Flow 1:

Average throughput: 78.37 Mbit/s

95th percentile per-packet one-way delay: 4.021 ms

Loss rate: 0.02%

Run 5: Report of Indigo-MusesT — Data Link

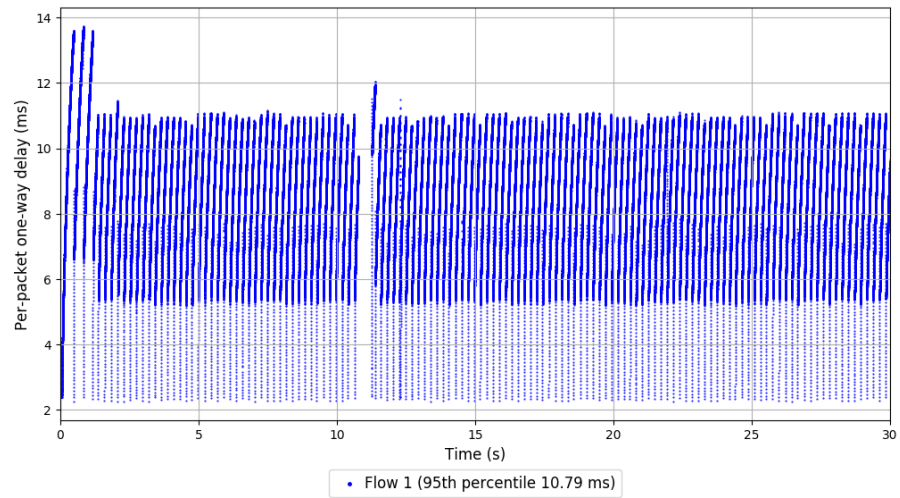
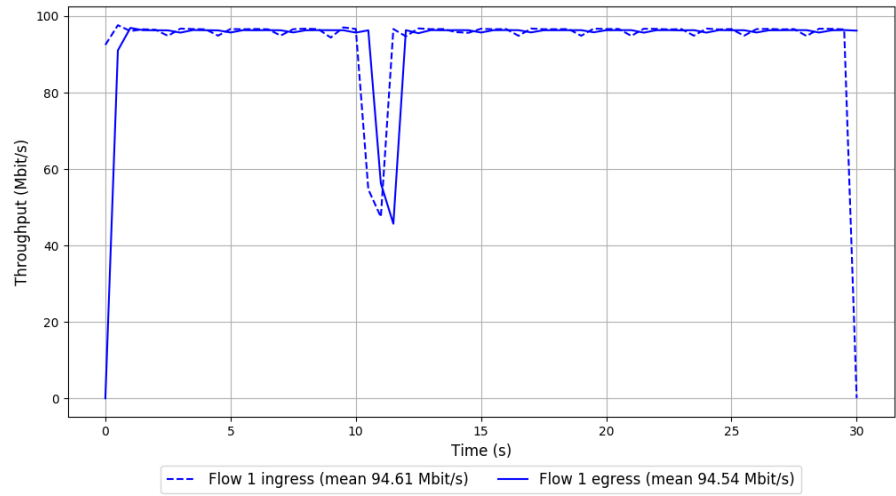


Run 1: Statistics of LEDBAT

Start at: 2019-07-12 10:08:45
End at: 2019-07-12 10:09:15
Local clock offset: -6.793 ms
Remote clock offset: -0.218 ms

Below is generated by plot.py at 2019-07-12 12:27:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.54 Mbit/s
95th percentile per-packet one-way delay: 10.794 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 94.54 Mbit/s
95th percentile per-packet one-way delay: 10.794 ms
Loss rate: 0.09%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-07-12 10:35:49

End at: 2019-07-12 10:36:19

Local clock offset: -7.59 ms

Remote clock offset: 0.159 ms

Below is generated by plot.py at 2019-07-12 12:27:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.65 Mbit/s

95th percentile per-packet one-way delay: 9.757 ms

Loss rate: 0.08%

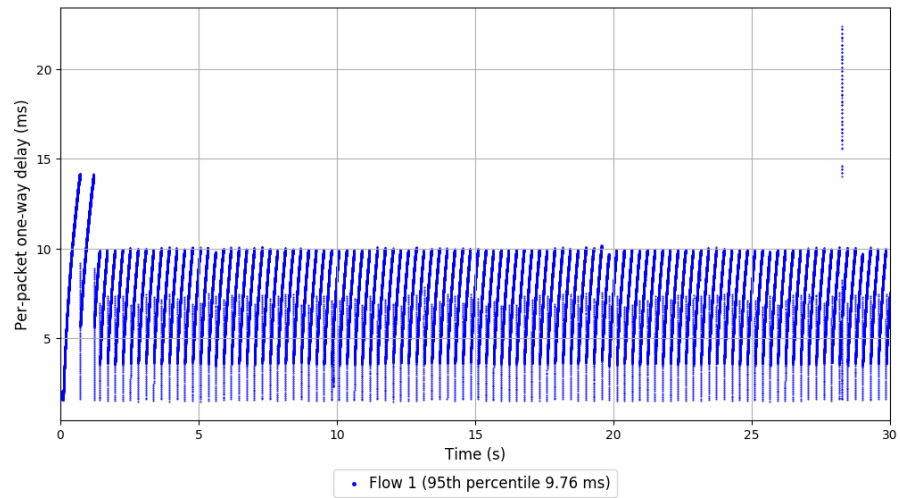
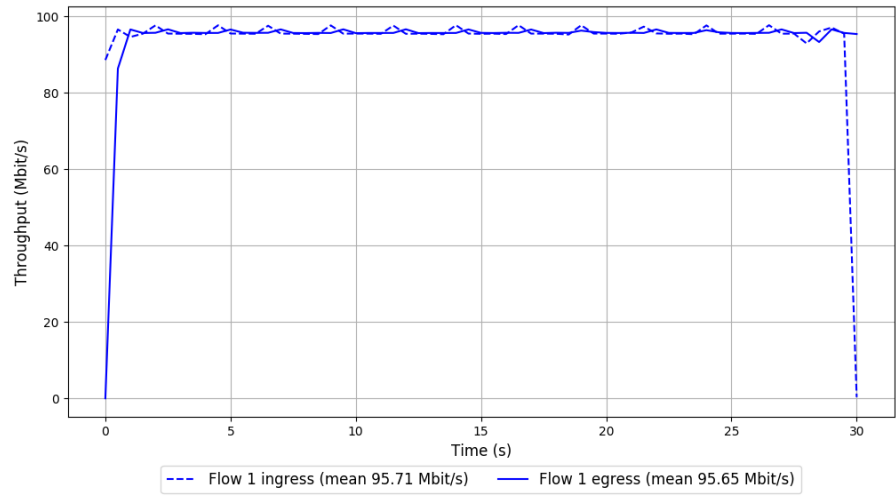
-- Flow 1:

Average throughput: 95.65 Mbit/s

95th percentile per-packet one-way delay: 9.757 ms

Loss rate: 0.08%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-07-12 11:02:57

End at: 2019-07-12 11:03:27

Local clock offset: -7.608 ms

Remote clock offset: 0.536 ms

Below is generated by plot.py at 2019-07-12 12:28:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.06 Mbit/s

95th percentile per-packet one-way delay: 9.984 ms

Loss rate: 0.08%

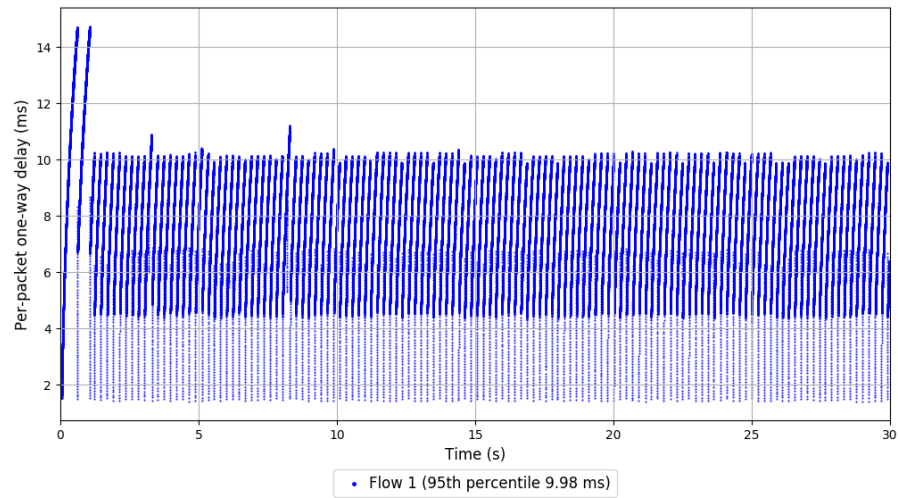
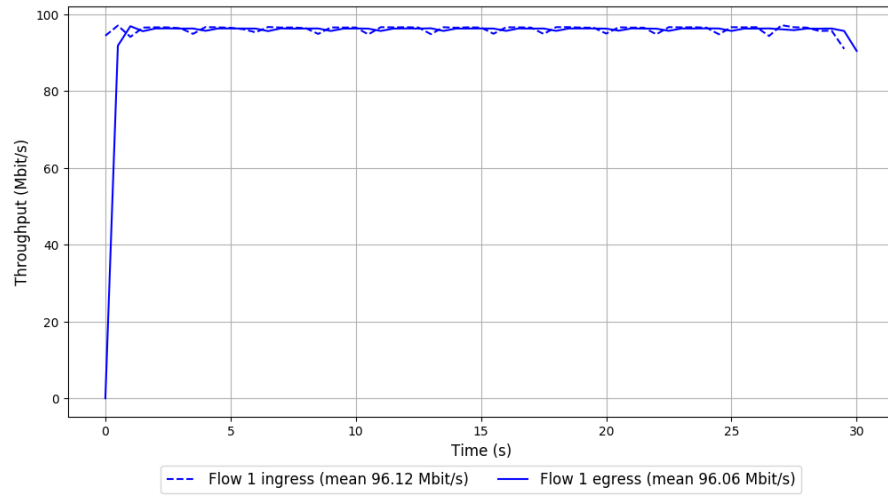
-- Flow 1:

Average throughput: 96.06 Mbit/s

95th percentile per-packet one-way delay: 9.984 ms

Loss rate: 0.08%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-07-12 11:30:04

End at: 2019-07-12 11:30:34

Local clock offset: -7.342 ms

Remote clock offset: 0.653 ms

Below is generated by plot.py at 2019-07-12 12:28:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.98 Mbit/s

95th percentile per-packet one-way delay: 10.044 ms

Loss rate: 0.09%

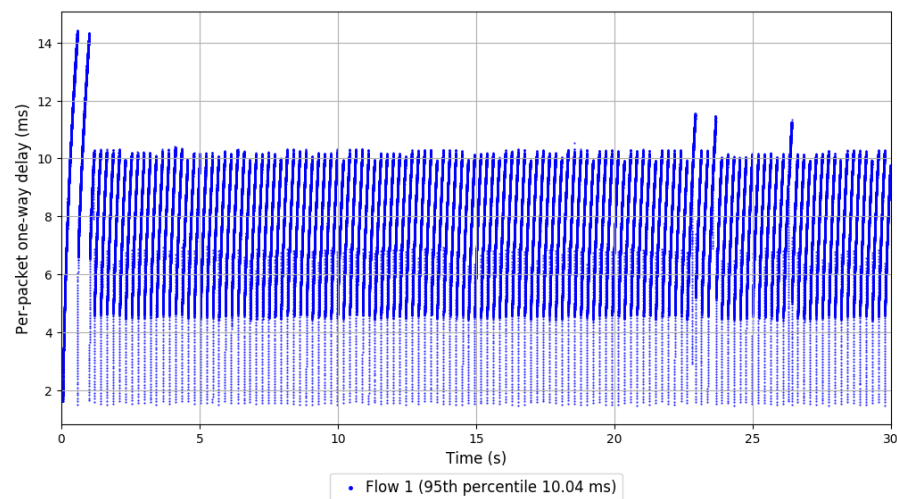
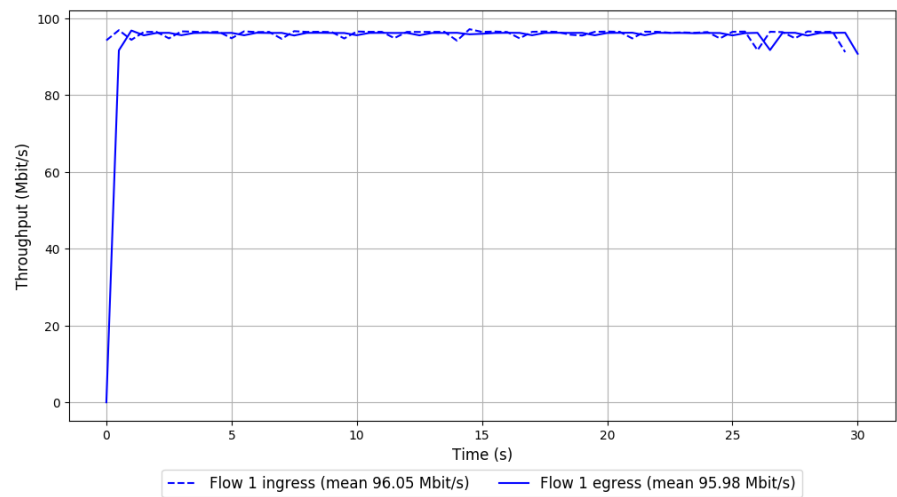
-- Flow 1:

Average throughput: 95.98 Mbit/s

95th percentile per-packet one-way delay: 10.044 ms

Loss rate: 0.09%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-07-12 11:57:11

End at: 2019-07-12 11:57:41

Local clock offset: -6.426 ms

Remote clock offset: 0.572 ms

Below is generated by plot.py at 2019-07-12 12:28:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.61 Mbit/s

95th percentile per-packet one-way delay: 9.794 ms

Loss rate: 0.08%

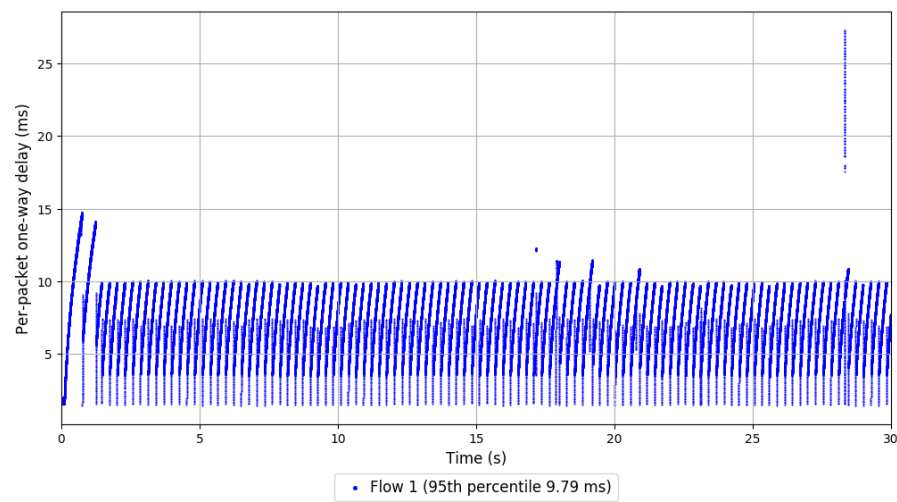
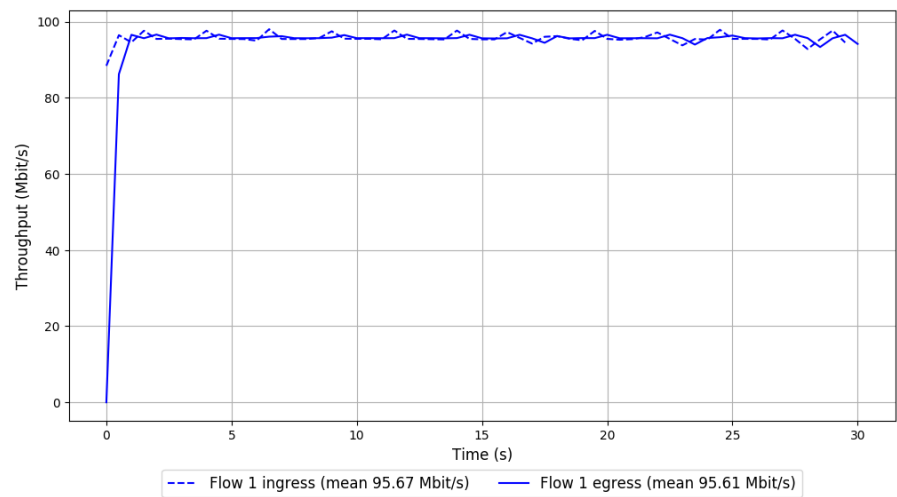
-- Flow 1:

Average throughput: 95.61 Mbit/s

95th percentile per-packet one-way delay: 9.794 ms

Loss rate: 0.08%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses_DecisionTree

Start at: 2019-07-12 10:29:03

End at: 2019-07-12 10:29:33

Local clock offset: -6.943 ms

Remote clock offset: 0.137 ms

Below is generated by plot.py at 2019-07-12 12:28:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.42 Mbit/s

95th percentile per-packet one-way delay: 854.492 ms

Loss rate: 0.45%

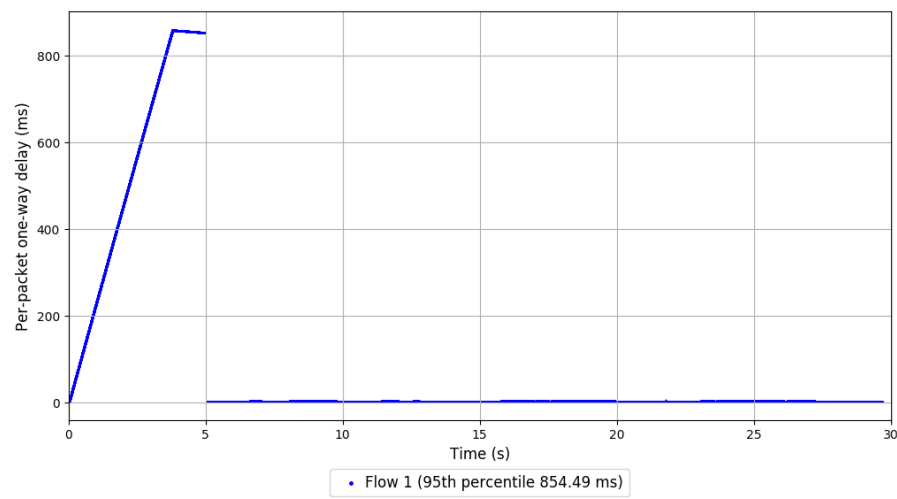
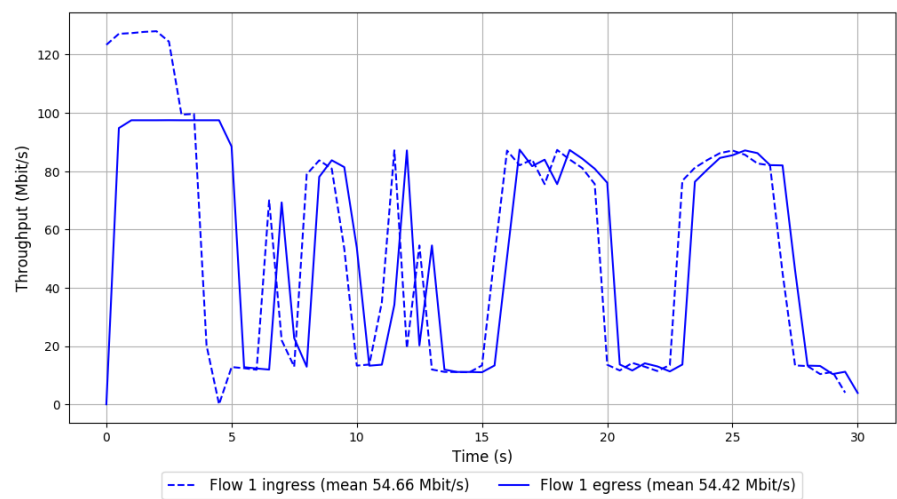
-- Flow 1:

Average throughput: 54.42 Mbit/s

95th percentile per-packet one-way delay: 854.492 ms

Loss rate: 0.45%

Run 1: Report of Muses_DecisionTree — Data Link



Run 2: Statistics of Muses_DecisionTree

Start at: 2019-07-12 10:56:11

End at: 2019-07-12 10:56:41

Local clock offset: -6.794 ms

Remote clock offset: 0.388 ms

Below is generated by plot.py at 2019-07-12 12:28:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.77 Mbit/s

95th percentile per-packet one-way delay: 805.873 ms

Loss rate: 0.27%

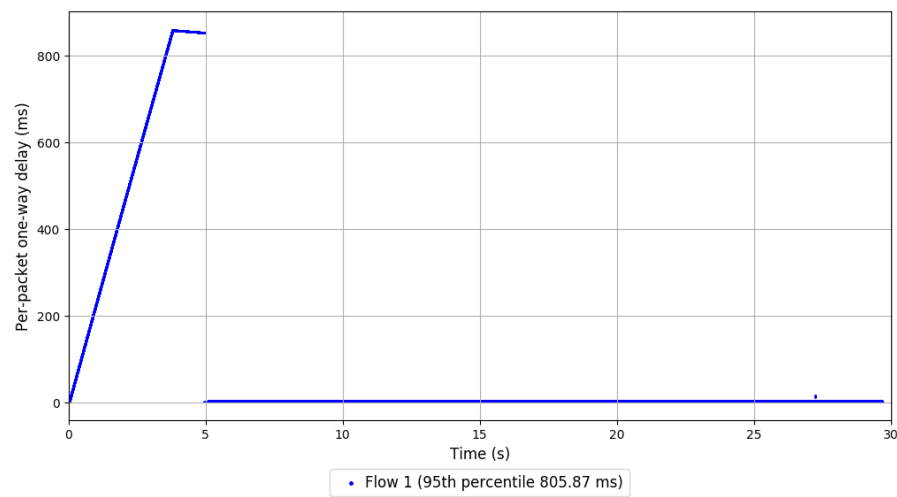
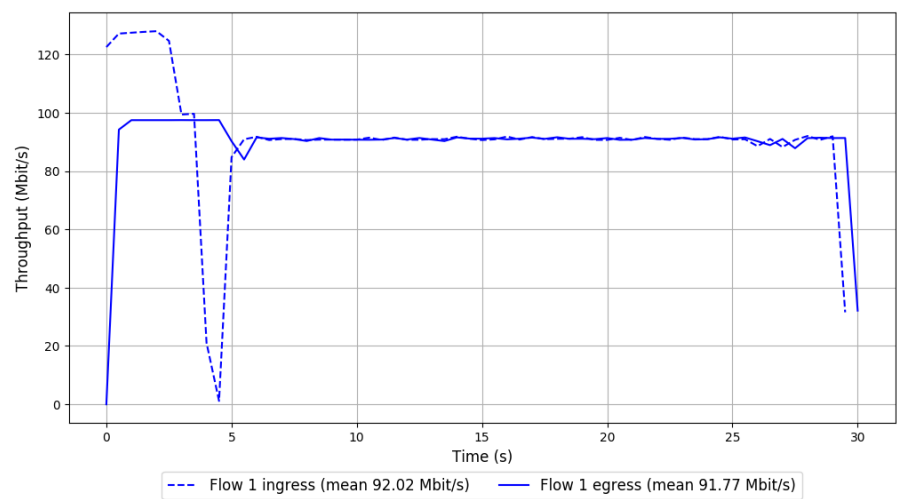
-- Flow 1:

Average throughput: 91.77 Mbit/s

95th percentile per-packet one-way delay: 805.873 ms

Loss rate: 0.27%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

Start at: 2019-07-12 11:23:20

End at: 2019-07-12 11:23:50

Local clock offset: -7.493 ms

Remote clock offset: 0.529 ms

Below is generated by plot.py at 2019-07-12 12:28:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.15 Mbit/s

95th percentile per-packet one-way delay: 855.635 ms

Loss rate: 0.77%

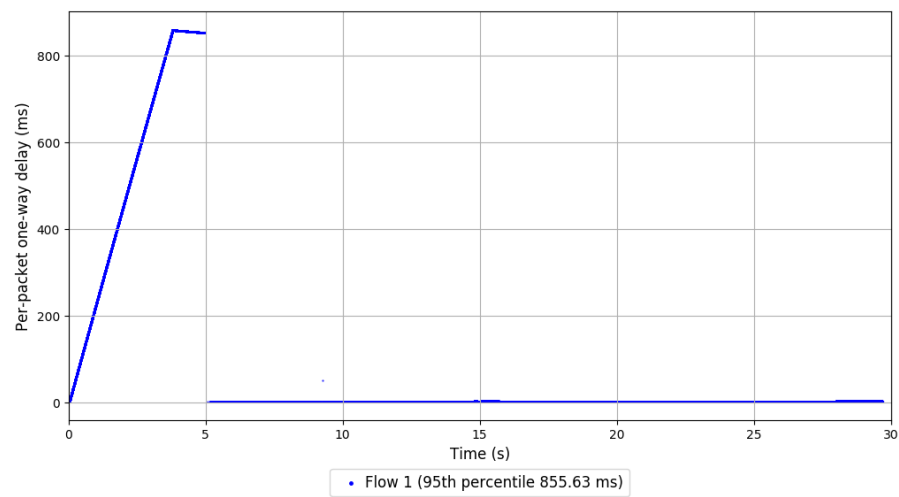
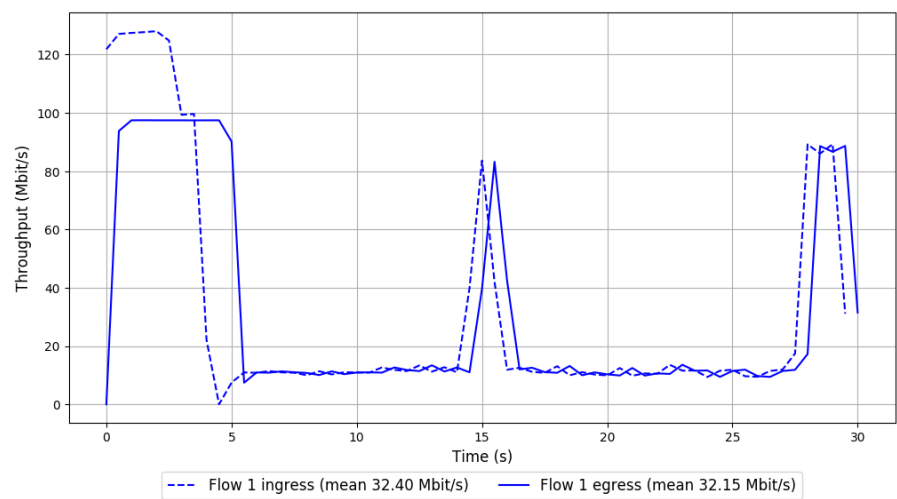
-- Flow 1:

Average throughput: 32.15 Mbit/s

95th percentile per-packet one-way delay: 855.635 ms

Loss rate: 0.77%

Run 3: Report of Muses_DecisionTree — Data Link



Run 4: Statistics of Muses_DecisionTree

Start at: 2019-07-12 11:50:26

End at: 2019-07-12 11:50:56

Local clock offset: -6.681 ms

Remote clock offset: 0.638 ms

Below is generated by plot.py at 2019-07-12 12:28:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.63 Mbit/s

95th percentile per-packet one-way delay: 651.771 ms

Loss rate: 0.31%

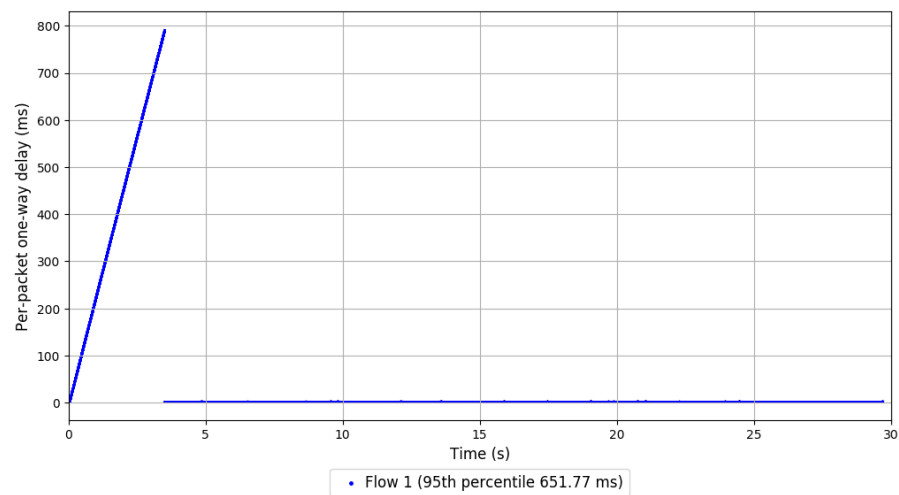
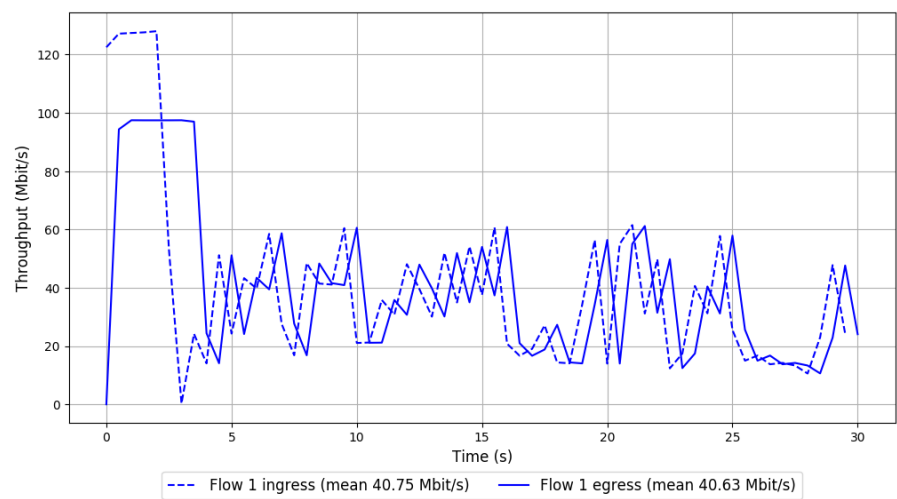
-- Flow 1:

Average throughput: 40.63 Mbit/s

95th percentile per-packet one-way delay: 651.771 ms

Loss rate: 0.31%

Run 4: Report of Muses_DecisionTree — Data Link



Run 5: Statistics of Muses_DecisionTree

Start at: 2019-07-12 12:17:32

End at: 2019-07-12 12:18:02

Local clock offset: -7.617 ms

Remote clock offset: 0.469 ms

Below is generated by plot.py at 2019-07-12 12:28:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.24 Mbit/s

95th percentile per-packet one-way delay: 855.867 ms

Loss rate: 1.18%

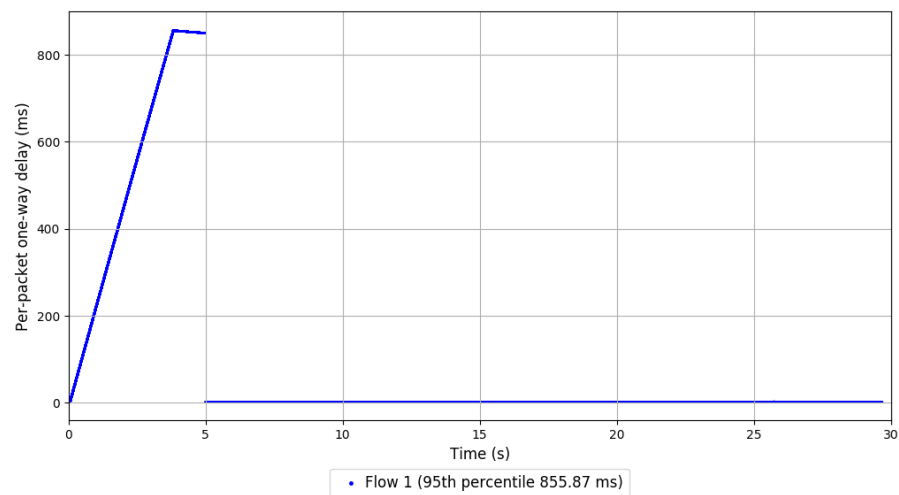
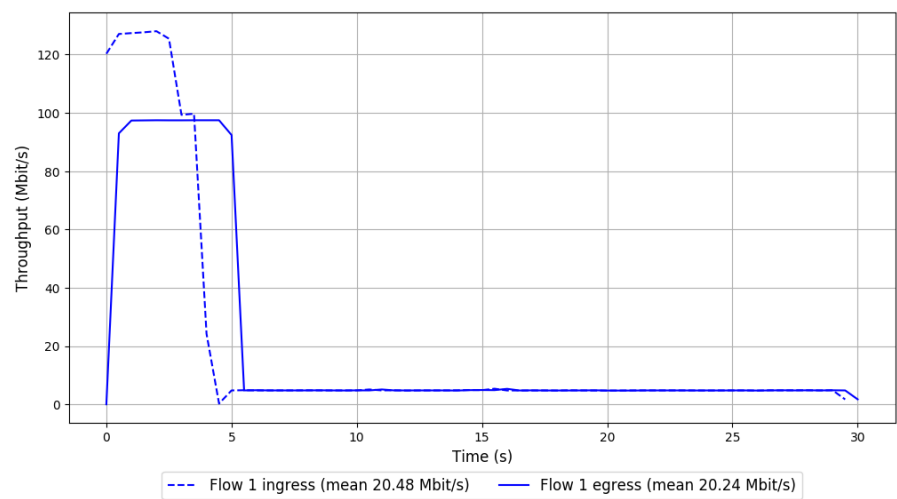
-- Flow 1:

Average throughput: 20.24 Mbit/s

95th percentile per-packet one-way delay: 855.867 ms

Loss rate: 1.18%

Run 5: Report of Muses_DecisionTree — Data Link



Run 1: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-12 10:16:39

End at: 2019-07-12 10:17:09

Local clock offset: -7.484 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2019-07-12 12:28:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.42 Mbit/s

95th percentile per-packet one-way delay: 851.679 ms

Loss rate: 0.33%

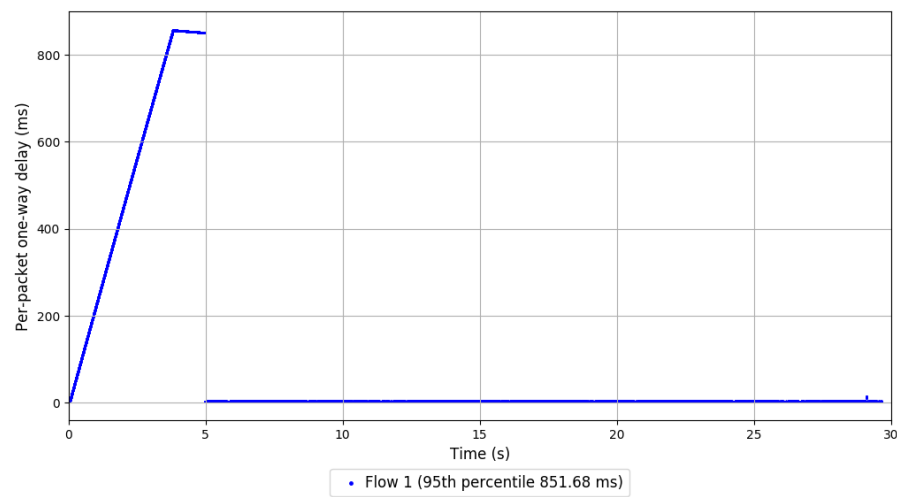
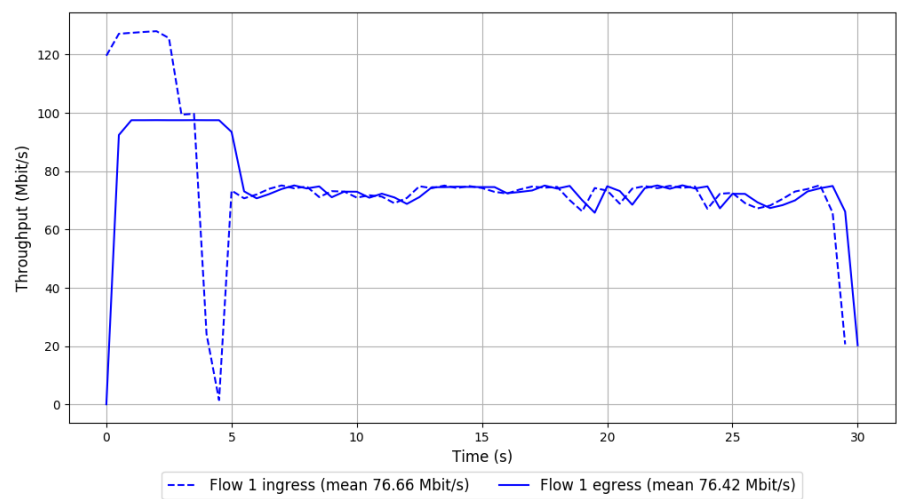
-- Flow 1:

Average throughput: 76.42 Mbit/s

95th percentile per-packet one-way delay: 851.679 ms

Loss rate: 0.33%

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-12 10:43:43

End at: 2019-07-12 10:44:13

Local clock offset: -6.772 ms

Remote clock offset: 0.283 ms

Below is generated by plot.py at 2019-07-12 12:29:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.16 Mbit/s

95th percentile per-packet one-way delay: 793.529 ms

Loss rate: 0.26%

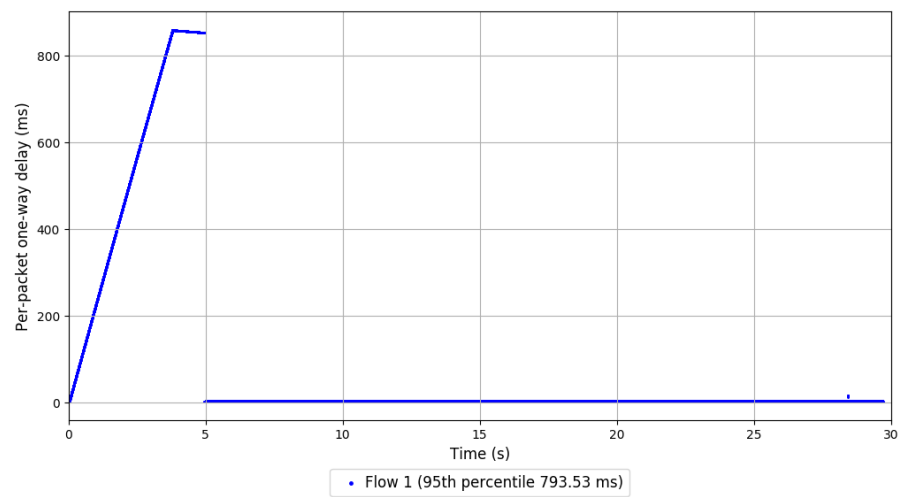
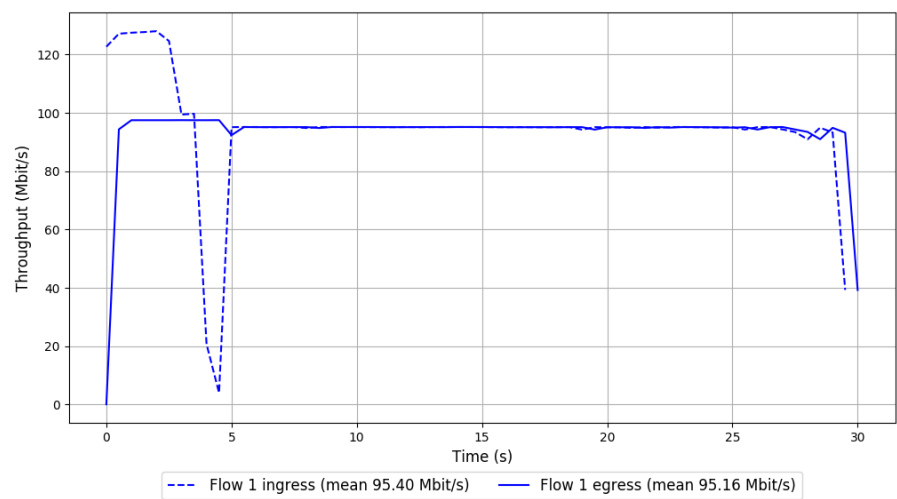
-- Flow 1:

Average throughput: 95.16 Mbit/s

95th percentile per-packet one-way delay: 793.529 ms

Loss rate: 0.26%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-12 11:10:52

End at: 2019-07-12 11:11:22

Local clock offset: -7.73 ms

Remote clock offset: 0.531 ms

Below is generated by plot.py at 2019-07-12 12:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.31 Mbit/s

95th percentile per-packet one-way delay: 811.450 ms

Loss rate: 0.28%

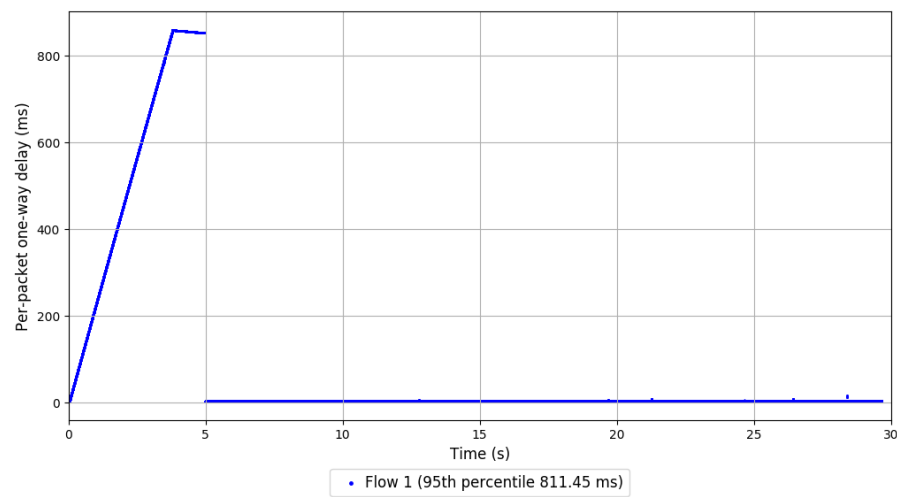
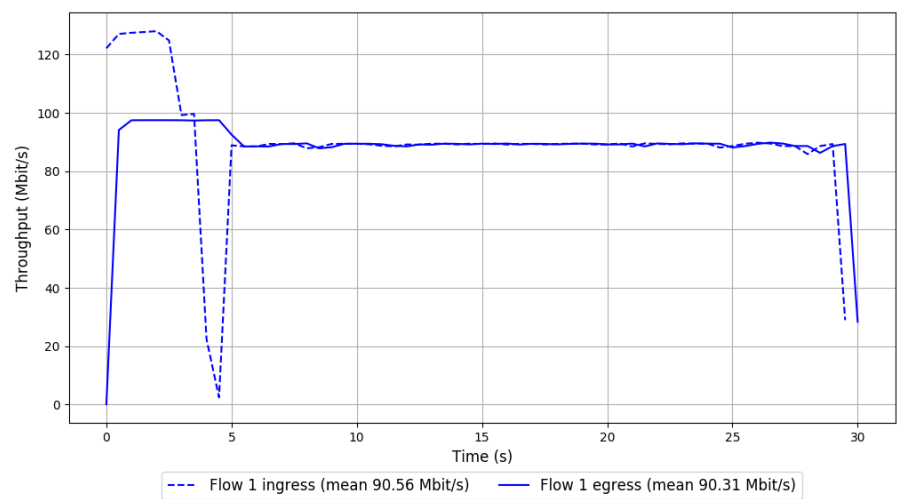
-- Flow 1:

Average throughput: 90.31 Mbit/s

95th percentile per-packet one-way delay: 811.450 ms

Loss rate: 0.28%

Run 3: Report of Muses_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-12 11:37:58

End at: 2019-07-12 11:38:28

Local clock offset: -6.284 ms

Remote clock offset: 0.688 ms

Below is generated by plot.py at 2019-07-12 12:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.02 Mbit/s

95th percentile per-packet one-way delay: 811.013 ms

Loss rate: 0.28%

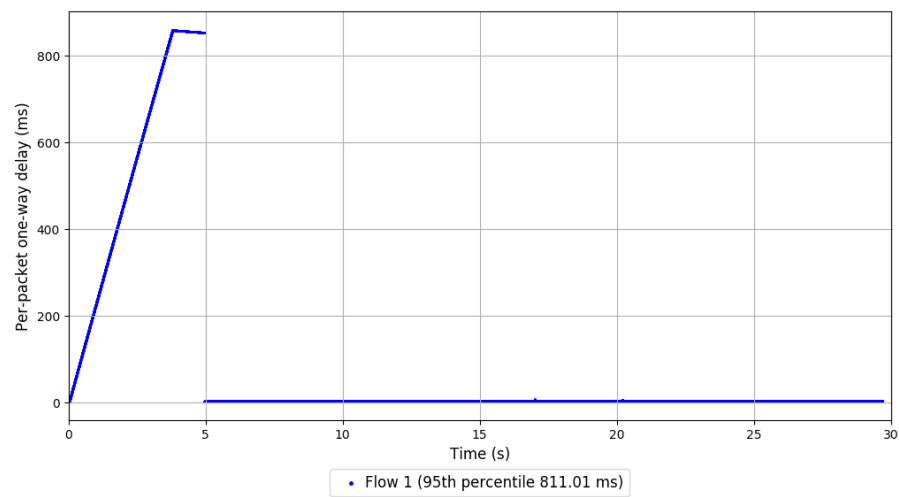
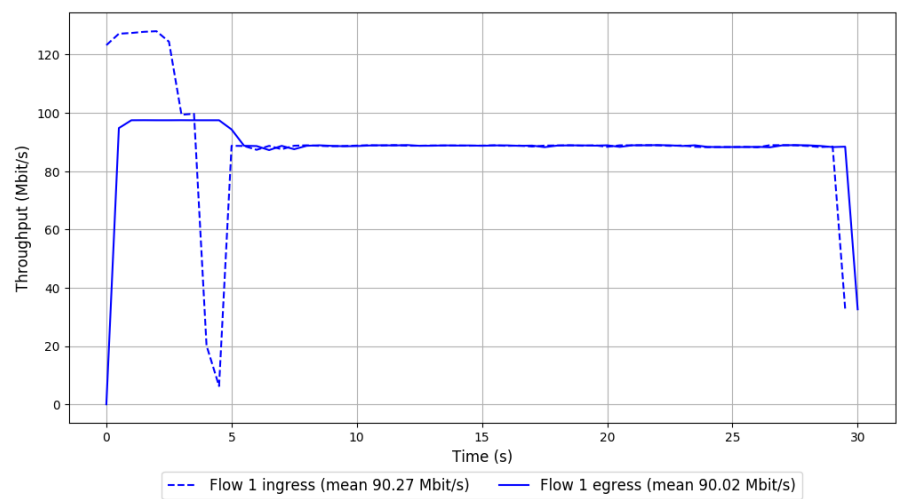
-- Flow 1:

Average throughput: 90.02 Mbit/s

95th percentile per-packet one-way delay: 811.013 ms

Loss rate: 0.28%

Run 4: Report of Muses_DecisionTreeH0 — Data Link



Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-12 12:05:06

End at: 2019-07-12 12:05:36

Local clock offset: -6.357 ms

Remote clock offset: 0.617 ms

Below is generated by plot.py at 2019-07-12 12:29:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.95 Mbit/s

95th percentile per-packet one-way delay: 818.783 ms

Loss rate: 0.33%

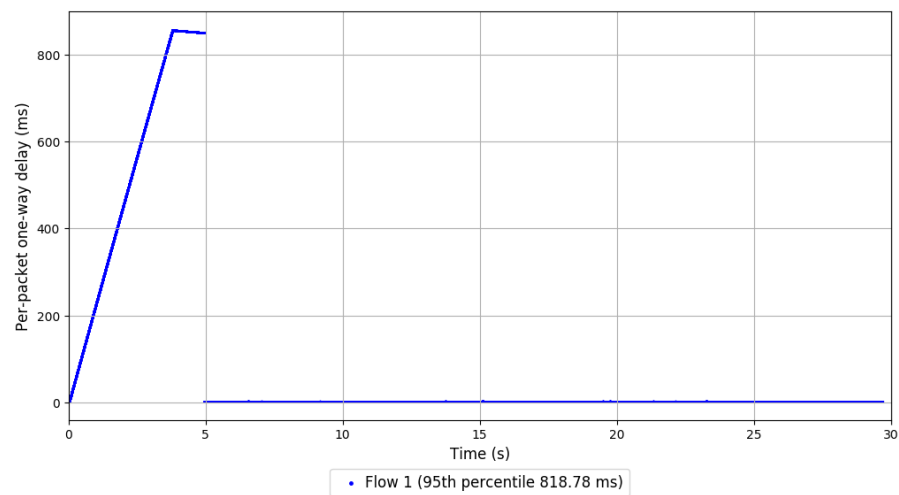
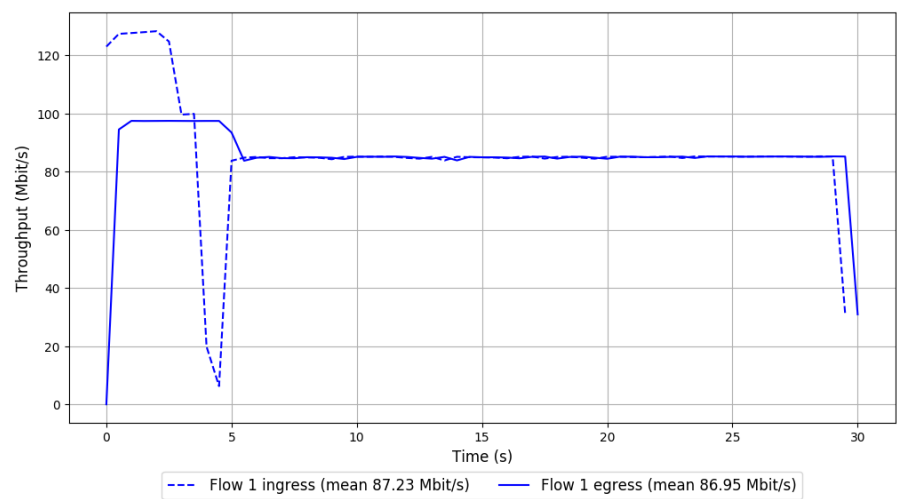
-- Flow 1:

Average throughput: 86.95 Mbit/s

95th percentile per-packet one-way delay: 818.783 ms

Loss rate: 0.33%

Run 5: Report of Muses_DecisionTreeH0 — Data Link

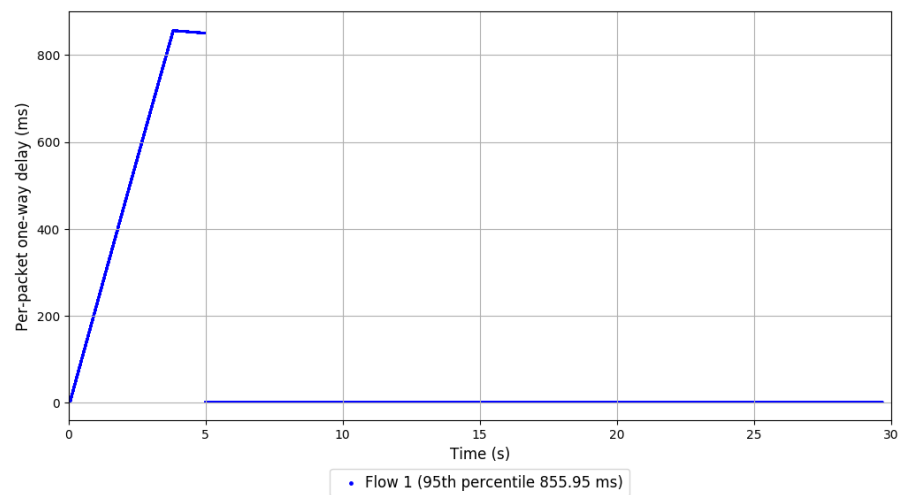
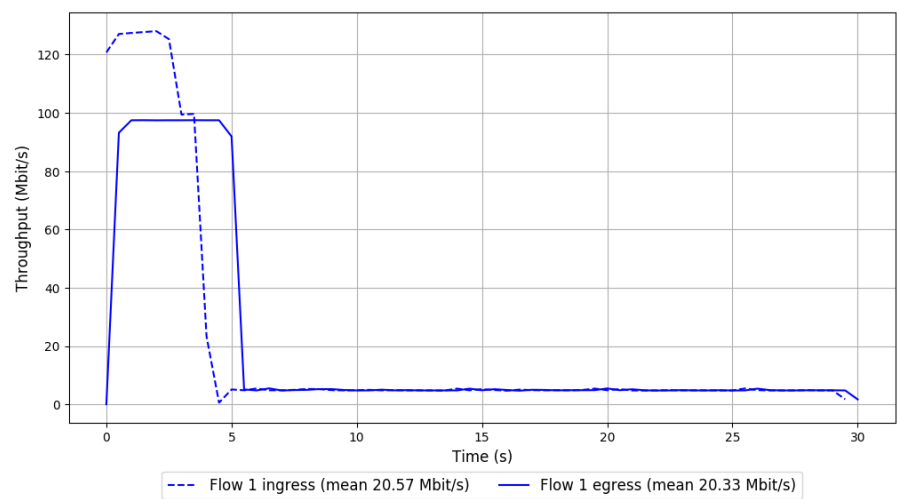


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-12 10:25:38
End at: 2019-07-12 10:26:08
Local clock offset: -7.484 ms
Remote clock offset: 0.042 ms

# Below is generated by plot.py at 2019-07-12 12:29:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.33 Mbit/s
95th percentile per-packet one-way delay: 855.952 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 20.33 Mbit/s
95th percentile per-packet one-way delay: 855.952 ms
Loss rate: 1.18%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-12 10:52:43

End at: 2019-07-12 10:53:13

Local clock offset: -6.786 ms

Remote clock offset: 0.324 ms

Below is generated by plot.py at 2019-07-12 12:29:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.99 Mbit/s

95th percentile per-packet one-way delay: 804.929 ms

Loss rate: 0.28%

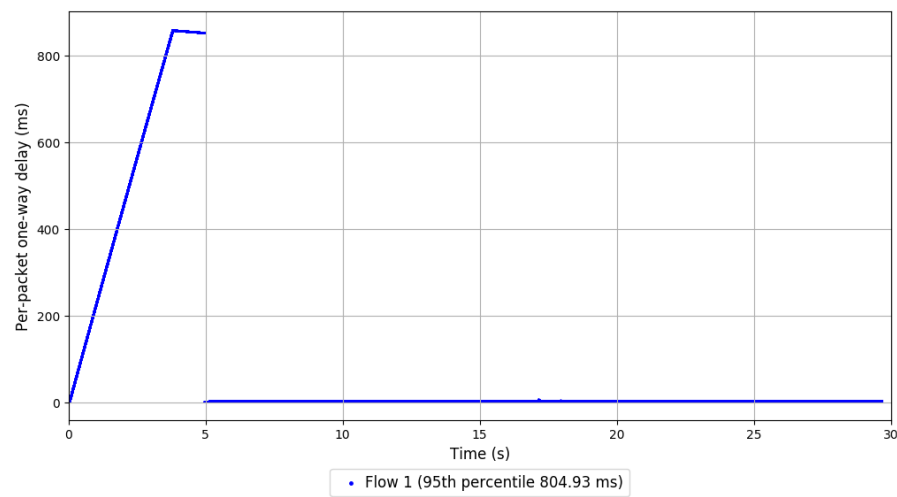
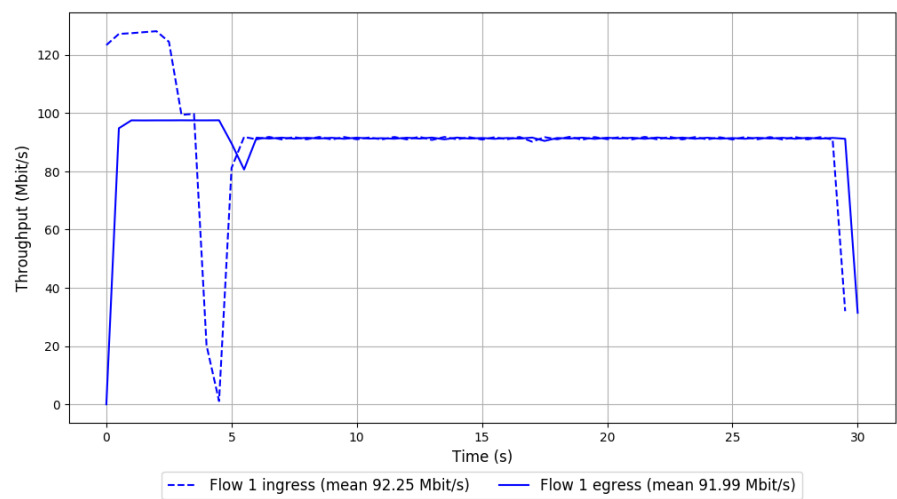
-- Flow 1:

Average throughput: 91.99 Mbit/s

95th percentile per-packet one-way delay: 804.929 ms

Loss rate: 0.28%

Run 2: Report of Muses_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-12 11:19:52

End at: 2019-07-12 11:20:22

Local clock offset: -6.926 ms

Remote clock offset: 0.651 ms

Below is generated by plot.py at 2019-07-12 12:29:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.11 Mbit/s

95th percentile per-packet one-way delay: 803.508 ms

Loss rate: 0.28%

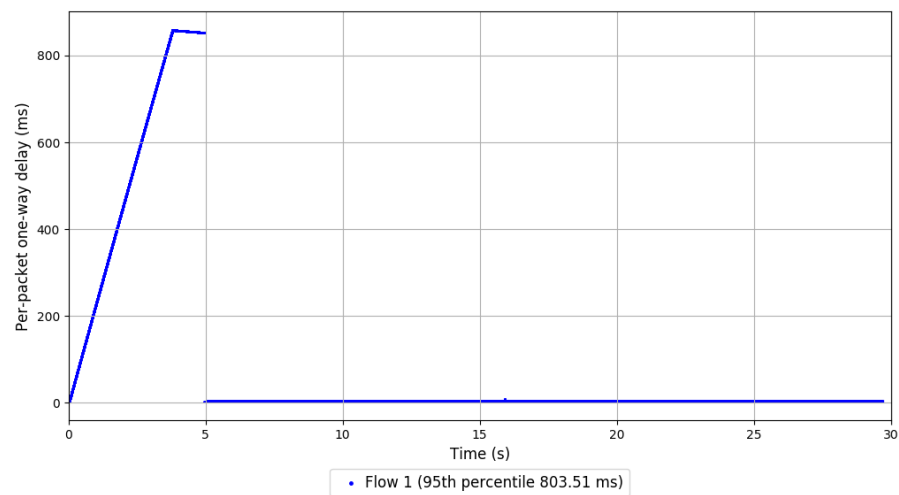
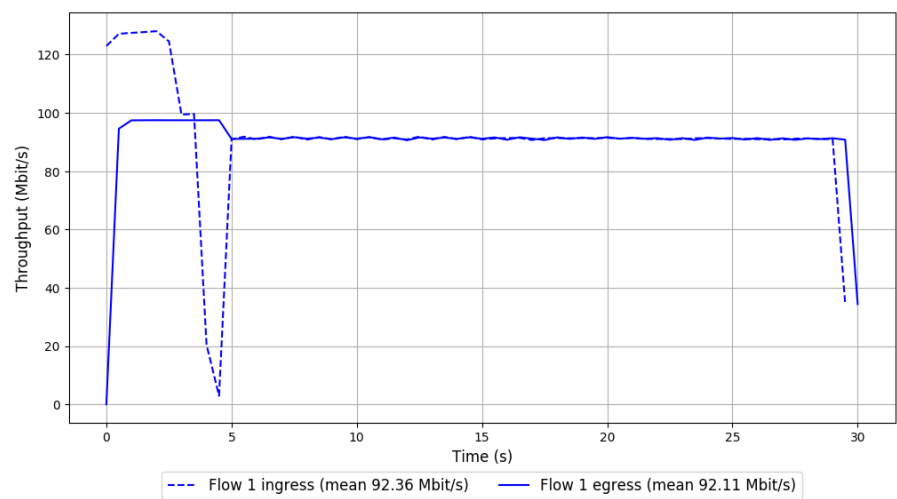
-- Flow 1:

Average throughput: 92.11 Mbit/s

95th percentile per-packet one-way delay: 803.508 ms

Loss rate: 0.28%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-12 11:46:58

End at: 2019-07-12 11:47:28

Local clock offset: -5.727 ms

Remote clock offset: 0.665 ms

Below is generated by plot.py at 2019-07-12 12:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.07 Mbit/s

95th percentile per-packet one-way delay: 799.266 ms

Loss rate: 0.37%

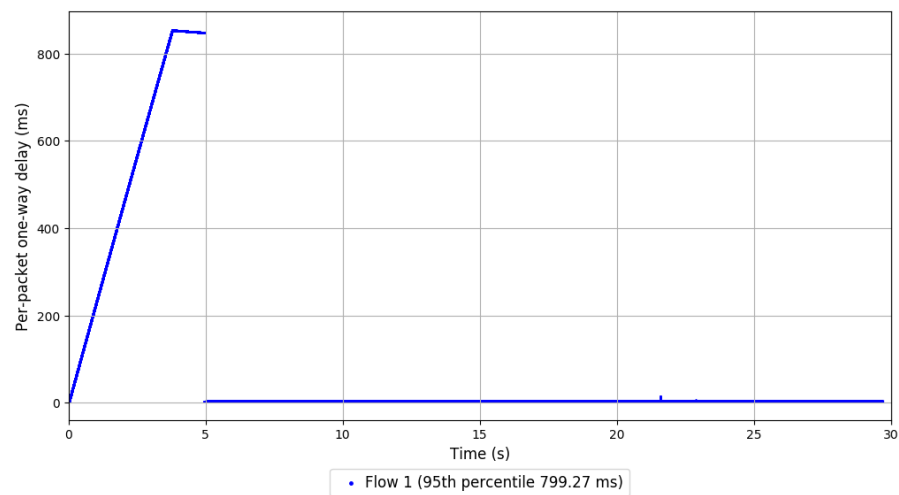
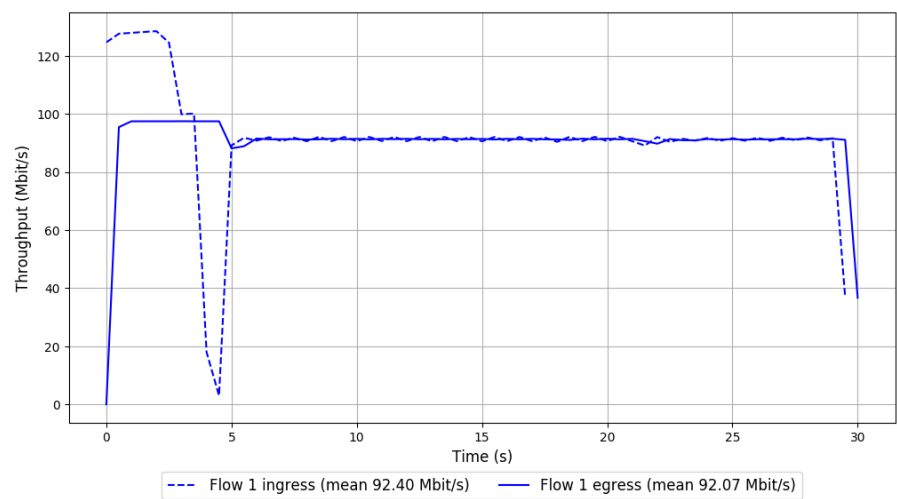
-- Flow 1:

Average throughput: 92.07 Mbit/s

95th percentile per-packet one-way delay: 799.266 ms

Loss rate: 0.37%

Run 4: Report of Muses_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-12 12:14:05

End at: 2019-07-12 12:14:35

Local clock offset: -7.329 ms

Remote clock offset: 0.458 ms

Below is generated by plot.py at 2019-07-12 12:29:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.51 Mbit/s

95th percentile per-packet one-way delay: 853.099 ms

Loss rate: 0.37%

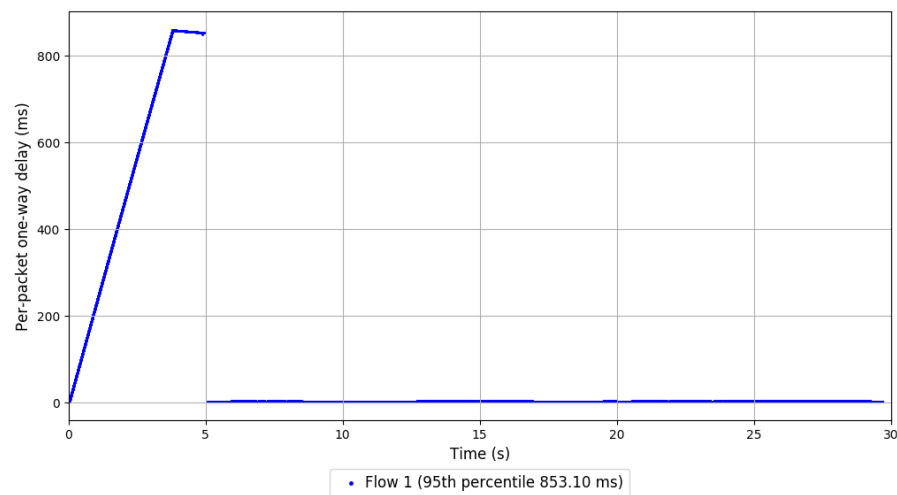
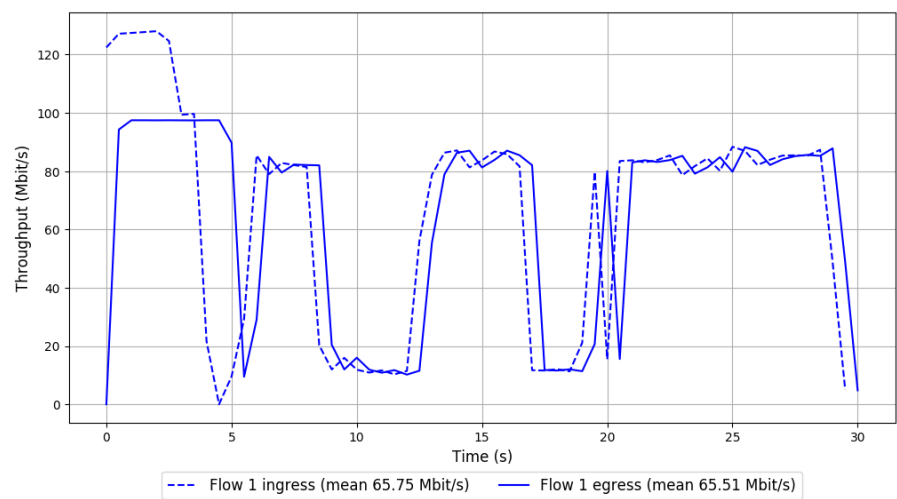
-- Flow 1:

Average throughput: 65.51 Mbit/s

95th percentile per-packet one-way delay: 853.099 ms

Loss rate: 0.37%

Run 5: Report of Muses_DecisionTreeR0 — Data Link

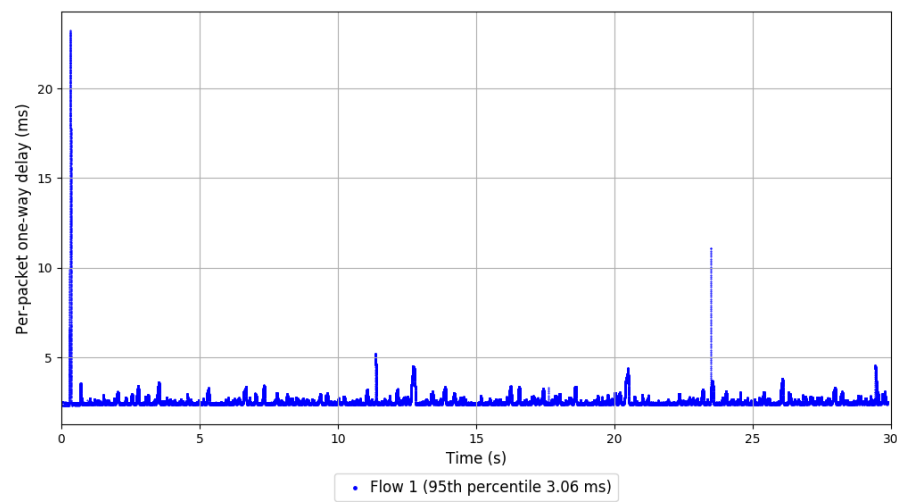
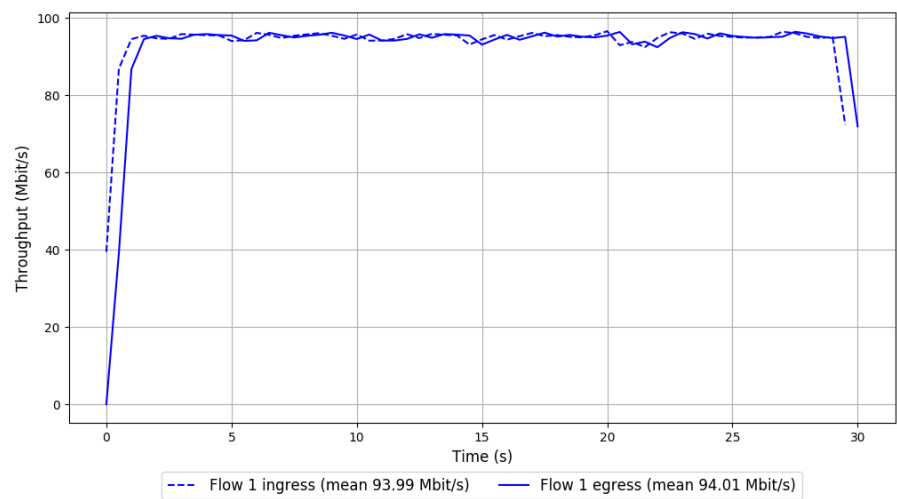


Run 1: Statistics of PCC-Allegro

Start at: 2019-07-12 10:24:31
End at: 2019-07-12 10:25:01
Local clock offset: -6.694 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2019-07-12 12:30:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.01 Mbit/s
95th percentile per-packet one-way delay: 3.065 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 94.01 Mbit/s
95th percentile per-packet one-way delay: 3.065 ms
Loss rate: 0.02%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-07-12 10:51:36

End at: 2019-07-12 10:52:06

Local clock offset: -7.583 ms

Remote clock offset: 0.342 ms

Below is generated by plot.py at 2019-07-12 12:30:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.66 Mbit/s

95th percentile per-packet one-way delay: 2.882 ms

Loss rate: 0.02%

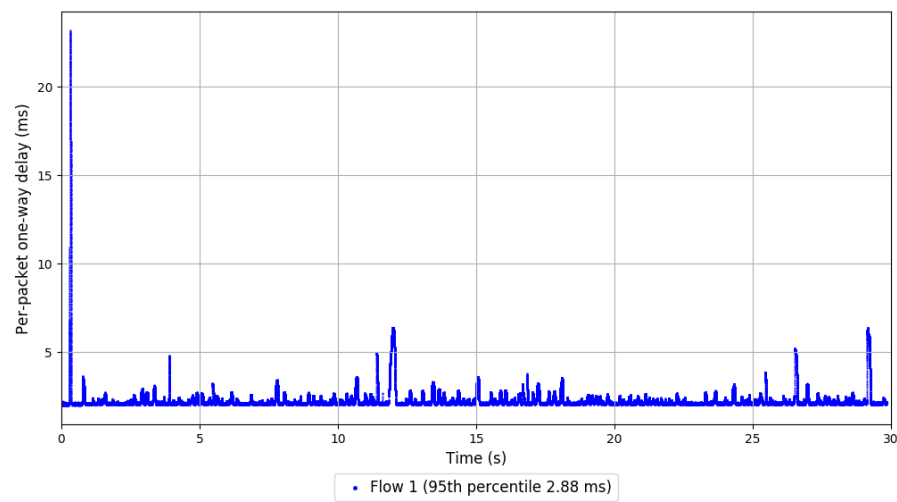
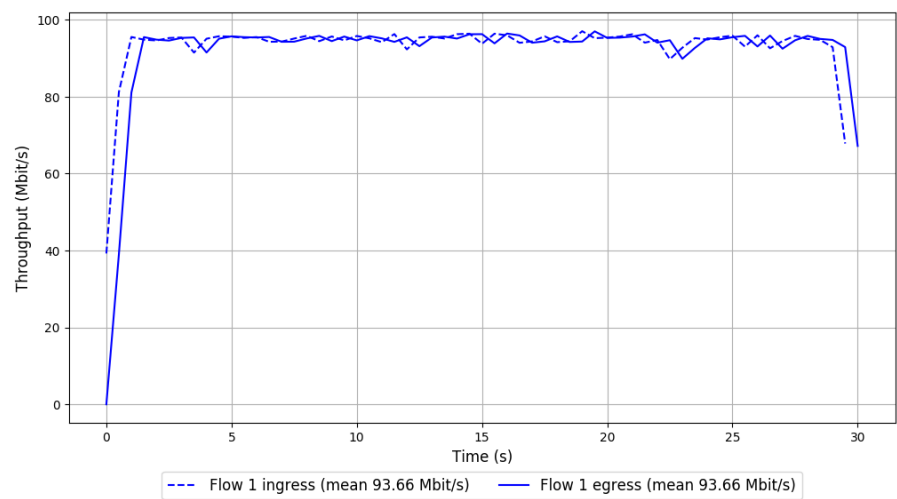
-- Flow 1:

Average throughput: 93.66 Mbit/s

95th percentile per-packet one-way delay: 2.882 ms

Loss rate: 0.02%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-07-12 11:18:45

End at: 2019-07-12 11:19:15

Local clock offset: -7.555 ms

Remote clock offset: 0.517 ms

Below is generated by plot.py at 2019-07-12 12:30:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.28 Mbit/s

95th percentile per-packet one-way delay: 2.371 ms

Loss rate: 0.02%

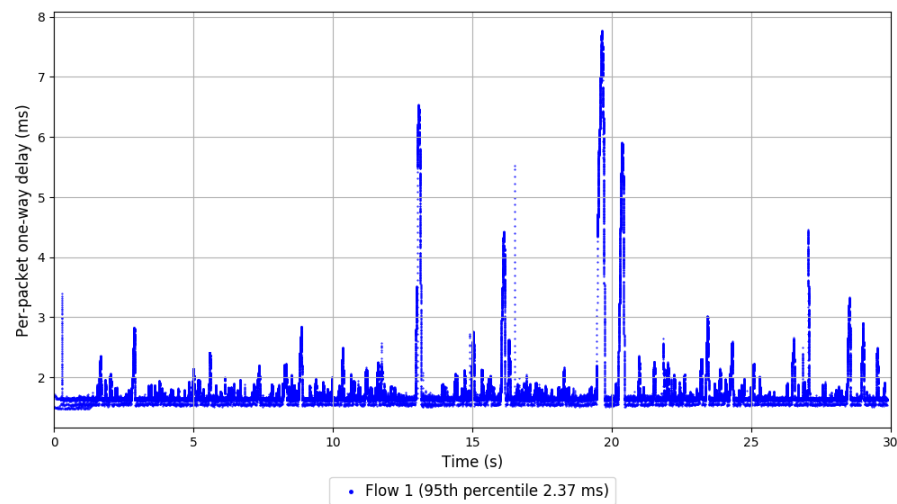
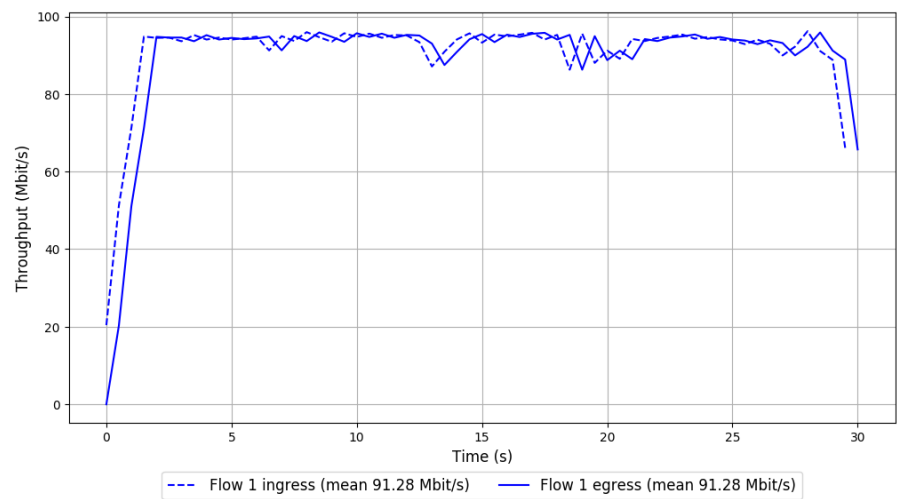
-- Flow 1:

Average throughput: 91.28 Mbit/s

95th percentile per-packet one-way delay: 2.371 ms

Loss rate: 0.02%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-07-12 11:45:51

End at: 2019-07-12 11:46:21

Local clock offset: -6.562 ms

Remote clock offset: 0.625 ms

Below is generated by plot.py at 2019-07-12 12:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.96 Mbit/s

95th percentile per-packet one-way delay: 2.598 ms

Loss rate: 0.02%

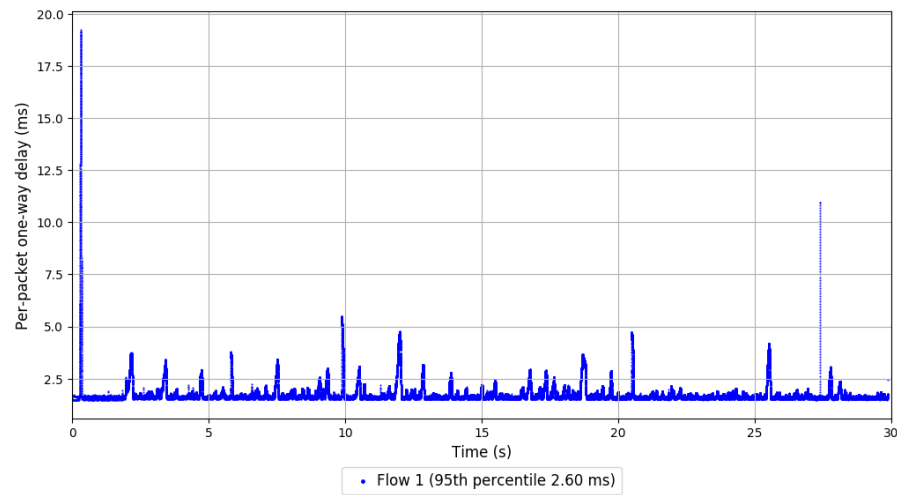
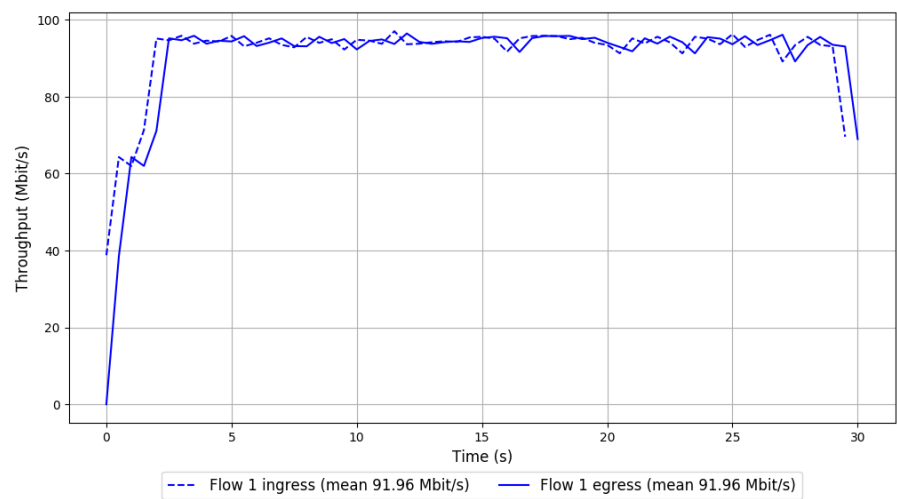
-- Flow 1:

Average throughput: 91.96 Mbit/s

95th percentile per-packet one-way delay: 2.598 ms

Loss rate: 0.02%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-07-12 12:12:58

End at: 2019-07-12 12:13:28

Local clock offset: -6.484 ms

Remote clock offset: 0.45 ms

Below is generated by plot.py at 2019-07-12 12:30:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.58 Mbit/s

95th percentile per-packet one-way delay: 3.076 ms

Loss rate: 0.02%

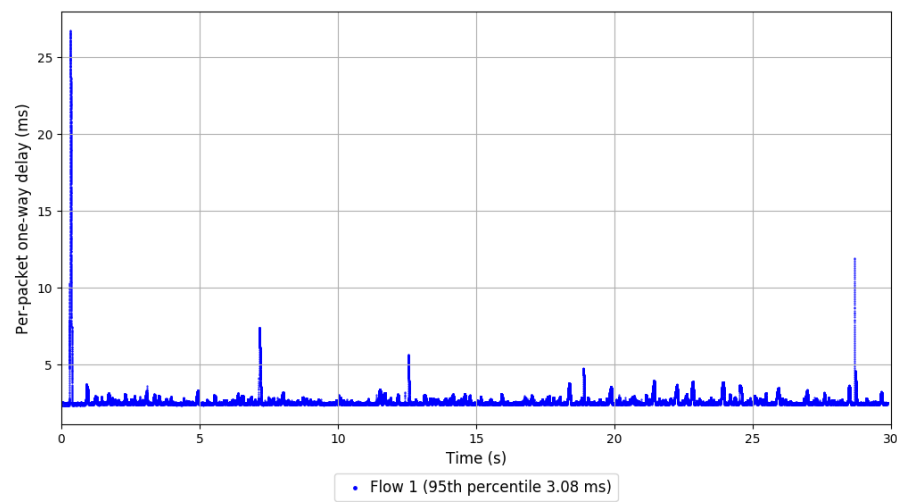
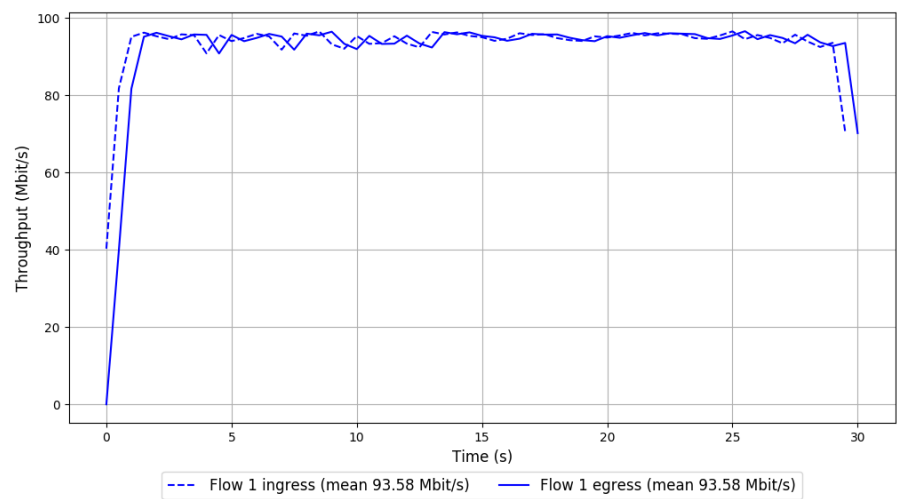
-- Flow 1:

Average throughput: 93.58 Mbit/s

95th percentile per-packet one-way delay: 3.076 ms

Loss rate: 0.02%

Run 5: Report of PCC-Allegro — Data Link

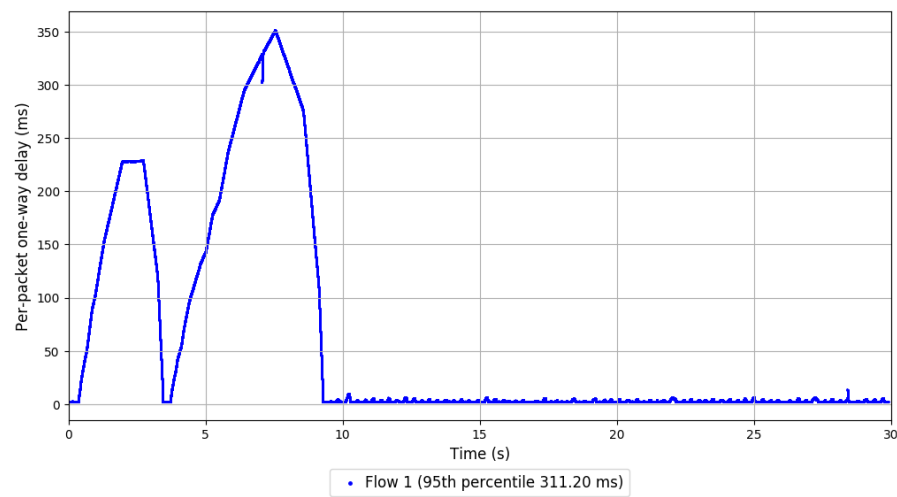
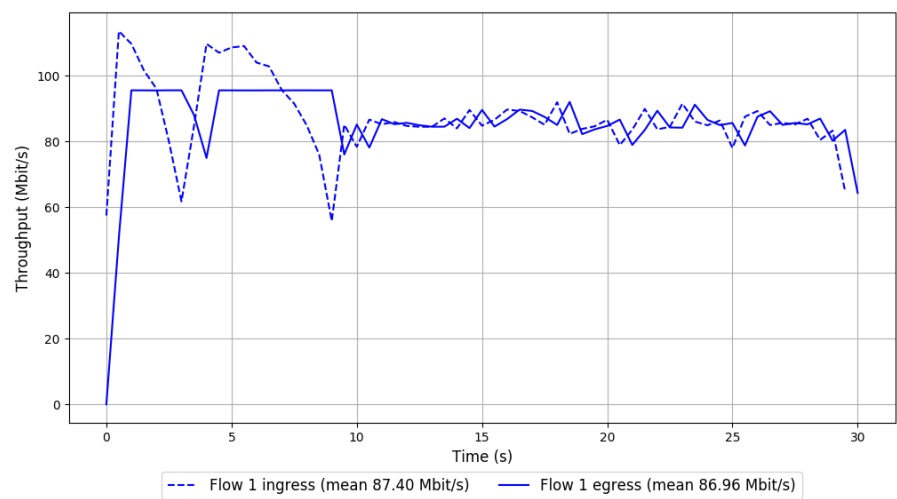


Run 1: Statistics of PCC-Expr

Start at: 2019-07-12 10:15:29
End at: 2019-07-12 10:15:59
Local clock offset: -6.733 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2019-07-12 12:31:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.96 Mbit/s
95th percentile per-packet one-way delay: 311.203 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 86.96 Mbit/s
95th percentile per-packet one-way delay: 311.203 ms
Loss rate: 0.52%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-07-12 10:42:32

End at: 2019-07-12 10:43:02

Local clock offset: -7.546 ms

Remote clock offset: 0.278 ms

Below is generated by plot.py at 2019-07-12 12:31:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.65 Mbit/s

95th percentile per-packet one-way delay: 642.925 ms

Loss rate: 4.96%

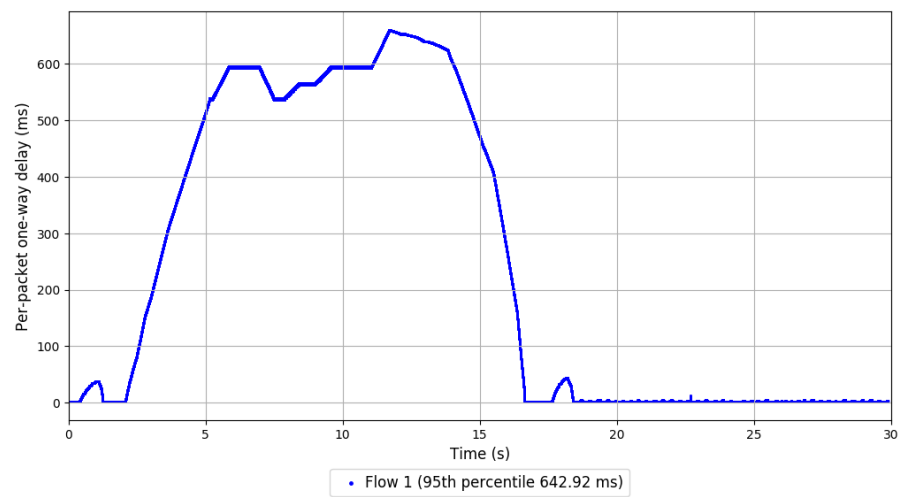
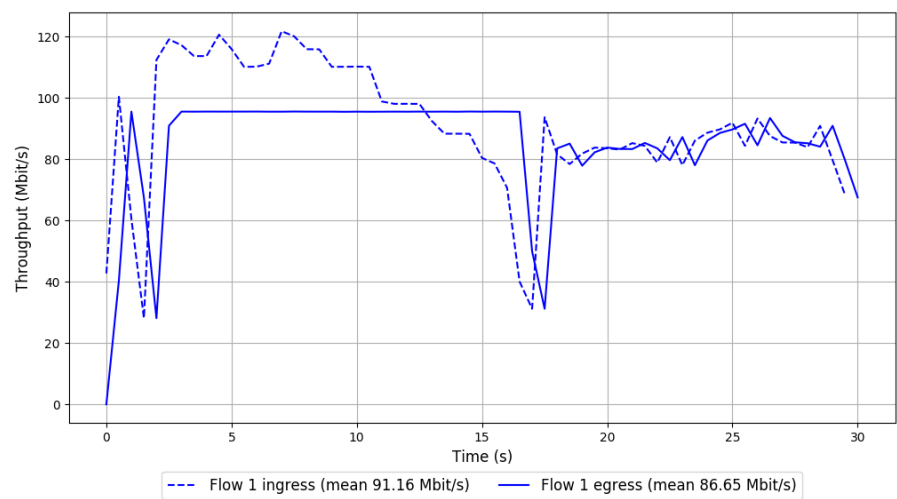
-- Flow 1:

Average throughput: 86.65 Mbit/s

95th percentile per-packet one-way delay: 642.925 ms

Loss rate: 4.96%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-07-12 11:09:42

End at: 2019-07-12 11:10:12

Local clock offset: -7.479 ms

Remote clock offset: 0.539 ms

Below is generated by plot.py at 2019-07-12 12:31:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.13 Mbit/s

95th percentile per-packet one-way delay: 10.379 ms

Loss rate: 0.16%

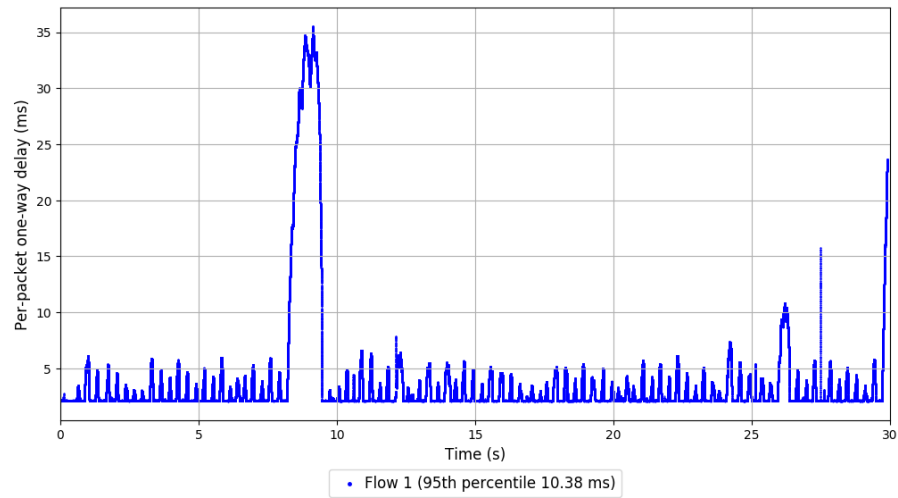
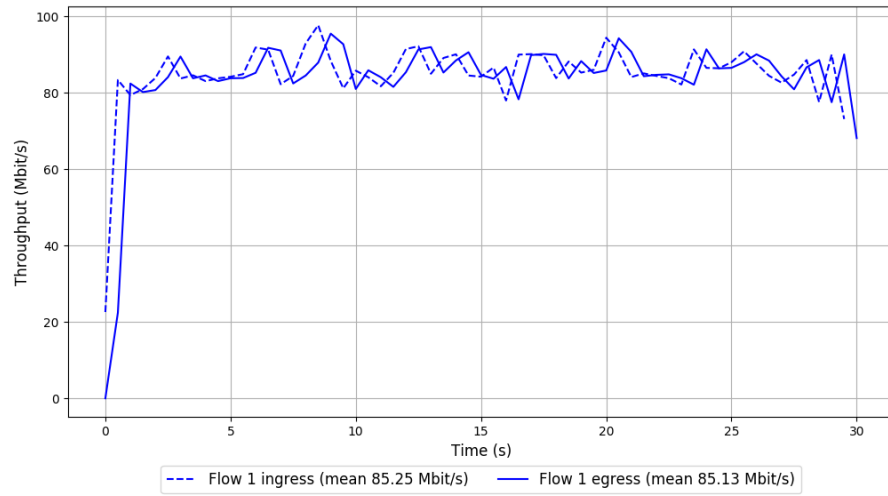
-- Flow 1:

Average throughput: 85.13 Mbit/s

95th percentile per-packet one-way delay: 10.379 ms

Loss rate: 0.16%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-07-12 11:36:47

End at: 2019-07-12 11:37:17

Local clock offset: -7.17 ms

Remote clock offset: 0.662 ms

Below is generated by plot.py at 2019-07-12 12:32:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.11 Mbit/s

95th percentile per-packet one-way delay: 642.827 ms

Loss rate: 3.41%

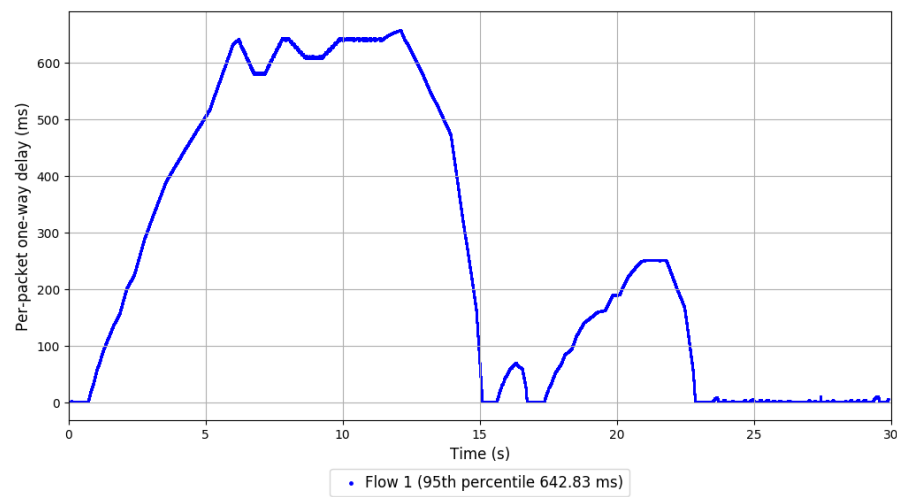
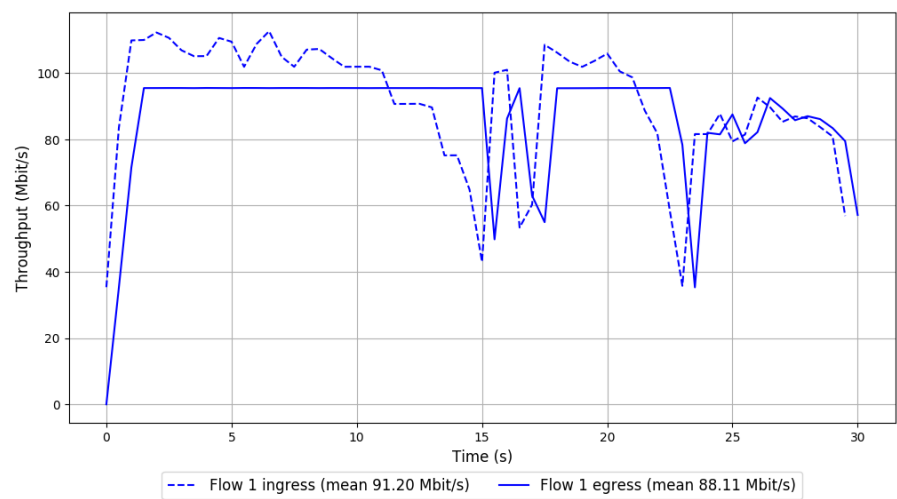
-- Flow 1:

Average throughput: 88.11 Mbit/s

95th percentile per-packet one-way delay: 642.827 ms

Loss rate: 3.41%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-07-12 12:03:54

End at: 2019-07-12 12:04:25

Local clock offset: -6.335 ms

Remote clock offset: 0.616 ms

Below is generated by plot.py at 2019-07-12 12:32:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.45 Mbit/s

95th percentile per-packet one-way delay: 650.373 ms

Loss rate: 6.91%

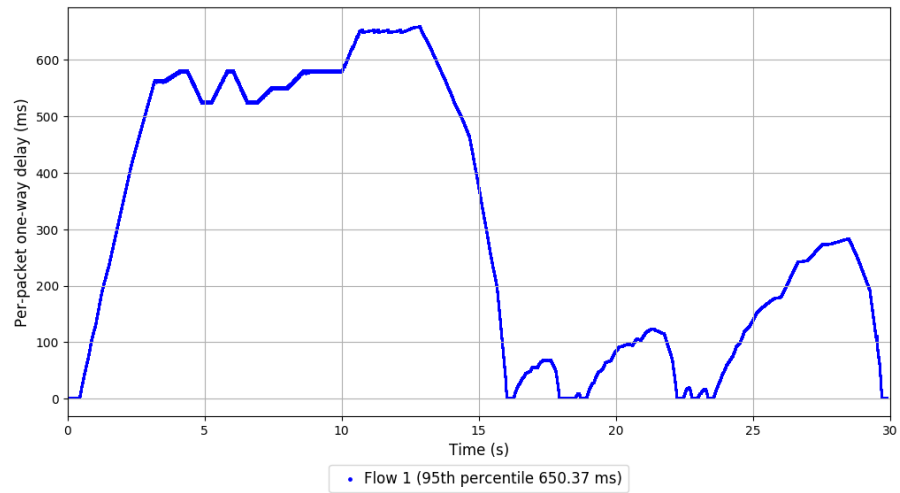
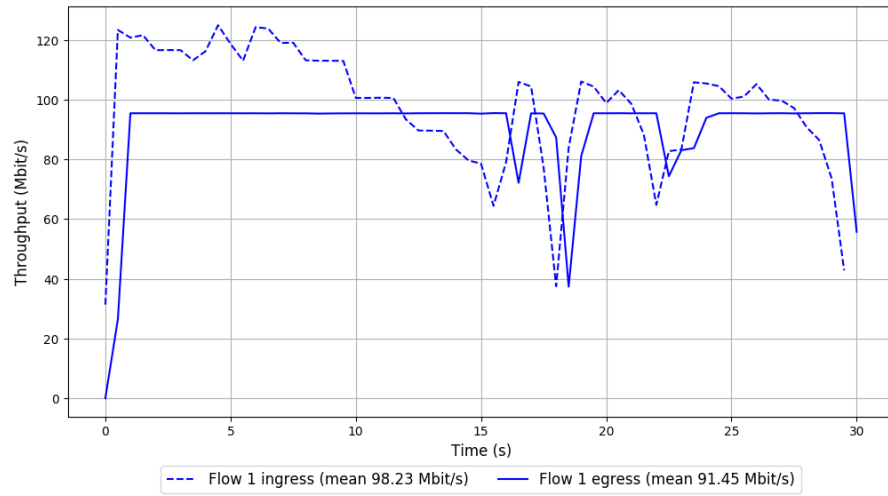
-- Flow 1:

Average throughput: 91.45 Mbit/s

95th percentile per-packet one-way delay: 650.373 ms

Loss rate: 6.91%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-07-12 10:17:47

End at: 2019-07-12 10:18:17

Local clock offset: -6.958 ms

Remote clock offset: -0.147 ms

Below is generated by plot.py at 2019-07-12 12:32:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.28 Mbit/s

95th percentile per-packet one-way delay: 8.475 ms

Loss rate: 0.02%

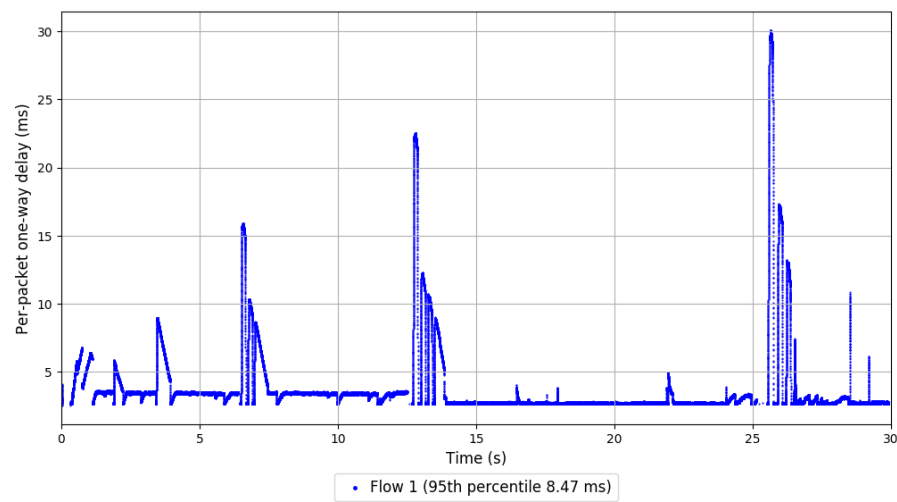
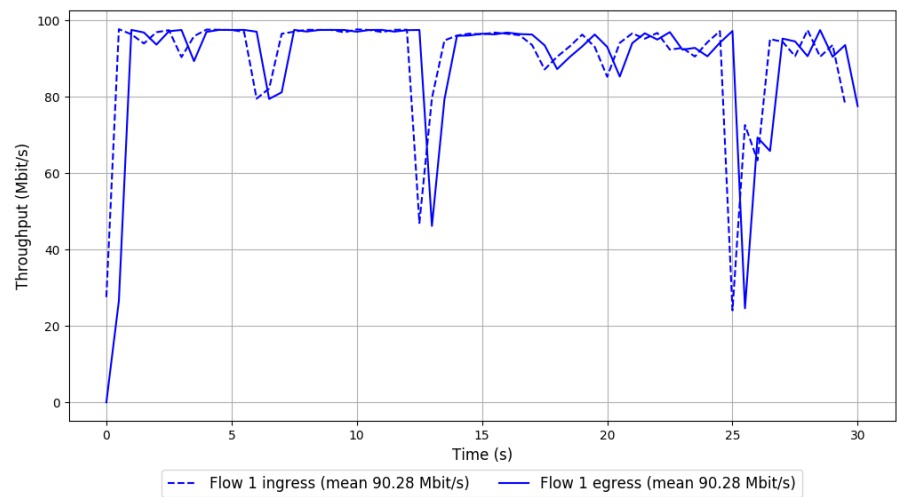
-- Flow 1:

Average throughput: 90.28 Mbit/s

95th percentile per-packet one-way delay: 8.475 ms

Loss rate: 0.02%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-07-12 10:44:51

End at: 2019-07-12 10:45:21

Local clock offset: -7.76 ms

Remote clock offset: 0.289 ms

Below is generated by plot.py at 2019-07-12 12:32:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.72 Mbit/s

95th percentile per-packet one-way delay: 6.046 ms

Loss rate: 0.02%

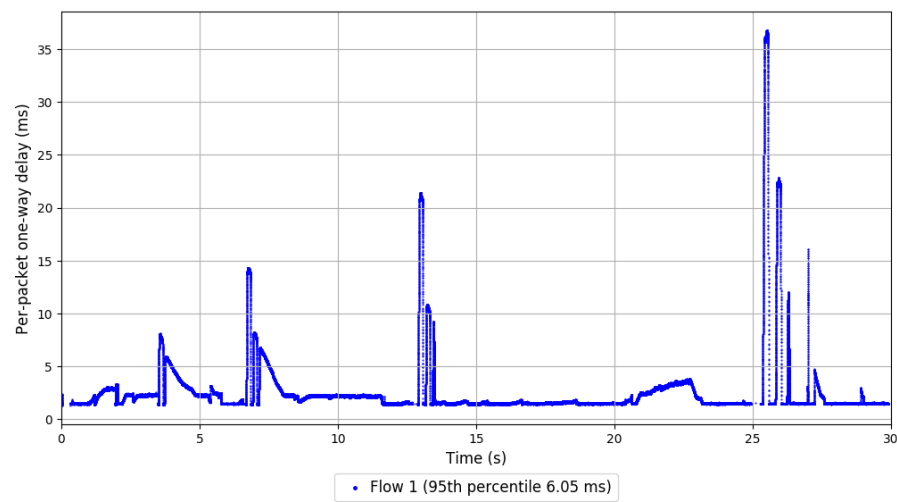
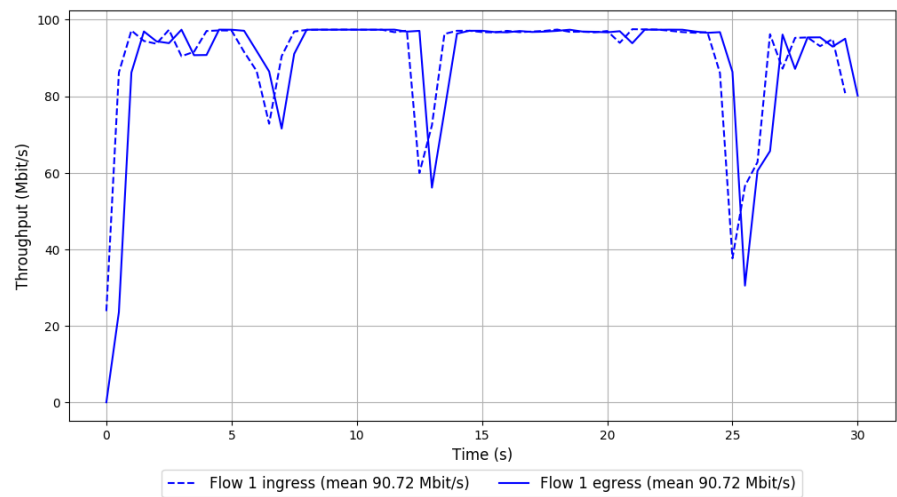
-- Flow 1:

Average throughput: 90.72 Mbit/s

95th percentile per-packet one-way delay: 6.046 ms

Loss rate: 0.02%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-07-12 11:12:00

End at: 2019-07-12 11:12:30

Local clock offset: -7.774 ms

Remote clock offset: 0.618 ms

Below is generated by plot.py at 2019-07-12 12:32:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.35 Mbit/s

95th percentile per-packet one-way delay: 8.422 ms

Loss rate: 0.02%

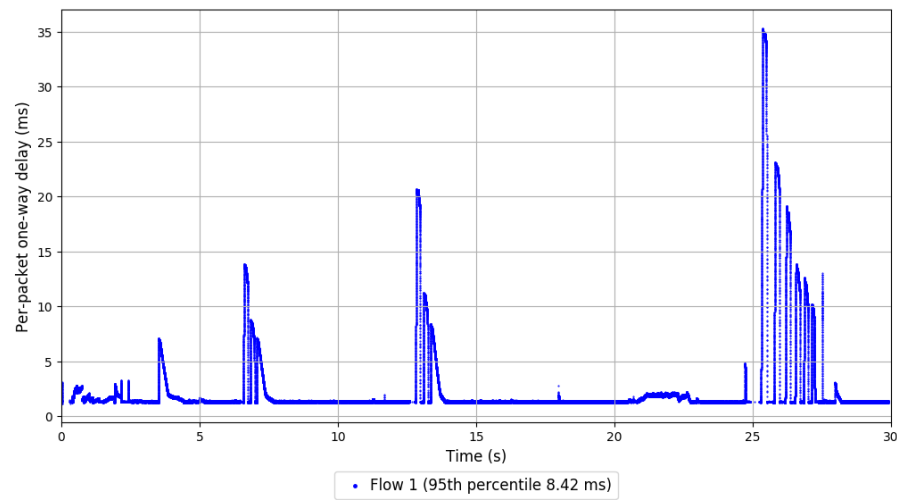
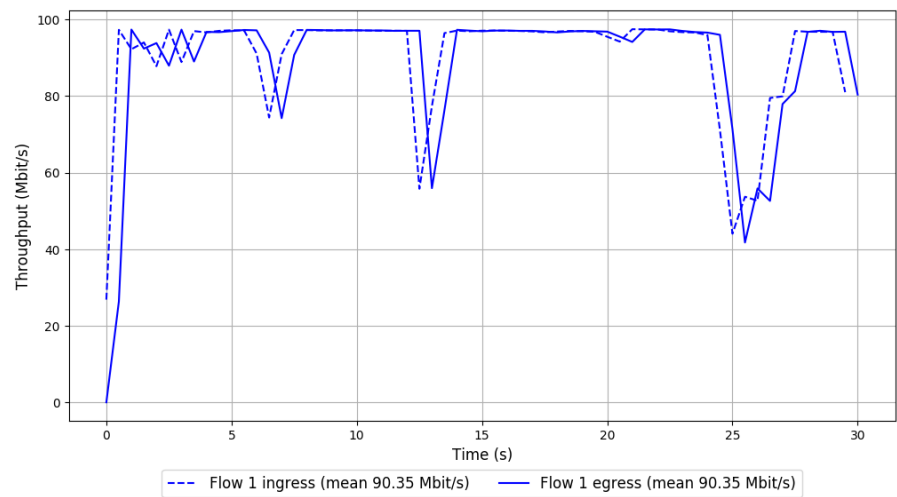
-- Flow 1:

Average throughput: 90.35 Mbit/s

95th percentile per-packet one-way delay: 8.422 ms

Loss rate: 0.02%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-07-12 11:39:06

End at: 2019-07-12 11:39:36

Local clock offset: -6.798 ms

Remote clock offset: 0.698 ms

Below is generated by plot.py at 2019-07-12 12:32:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.12 Mbit/s

95th percentile per-packet one-way delay: 4.301 ms

Loss rate: 0.02%

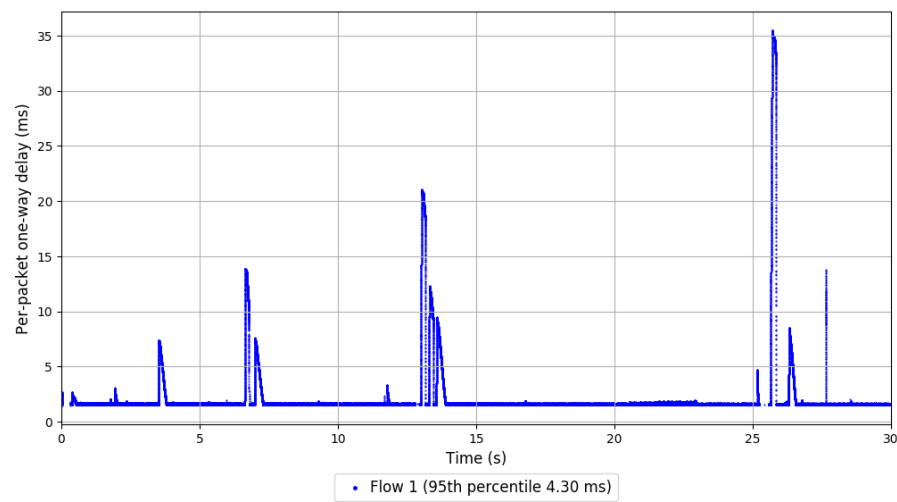
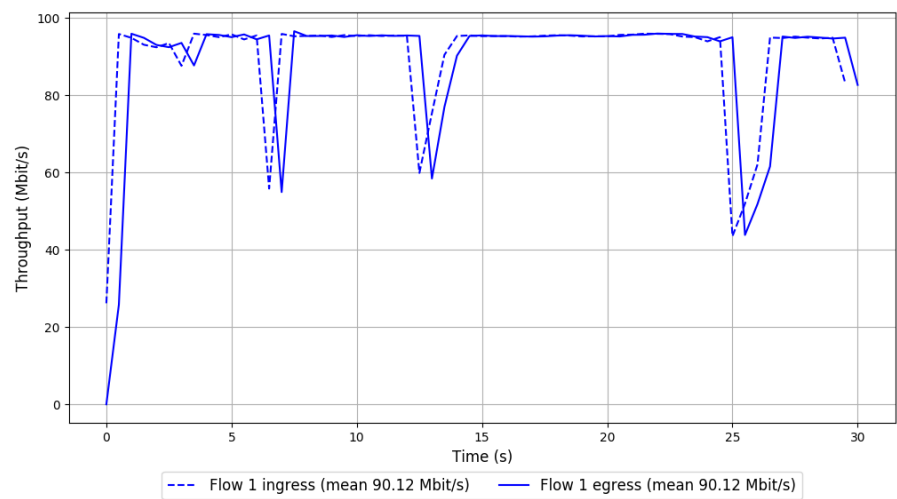
-- Flow 1:

Average throughput: 90.12 Mbit/s

95th percentile per-packet one-way delay: 4.301 ms

Loss rate: 0.02%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-07-12 12:06:14

End at: 2019-07-12 12:06:44

Local clock offset: -7.216 ms

Remote clock offset: 0.535 ms

Below is generated by plot.py at 2019-07-12 12:32:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.28 Mbit/s

95th percentile per-packet one-way delay: 5.542 ms

Loss rate: 0.02%

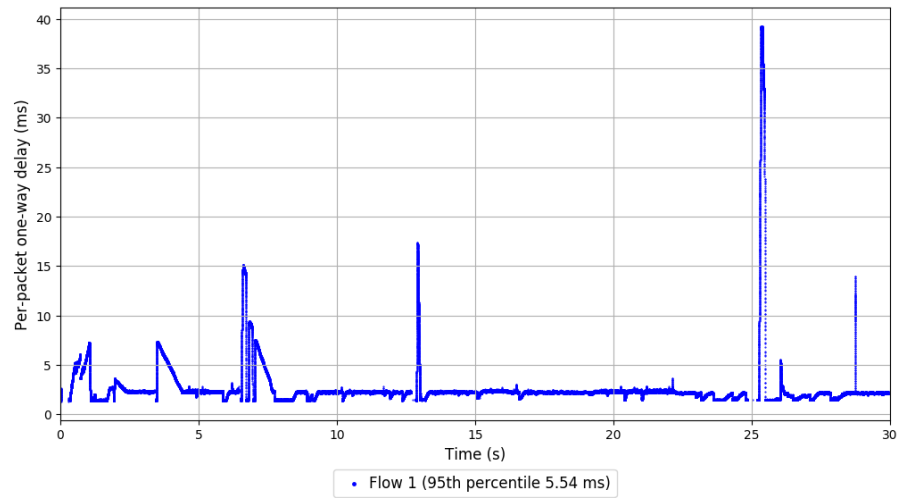
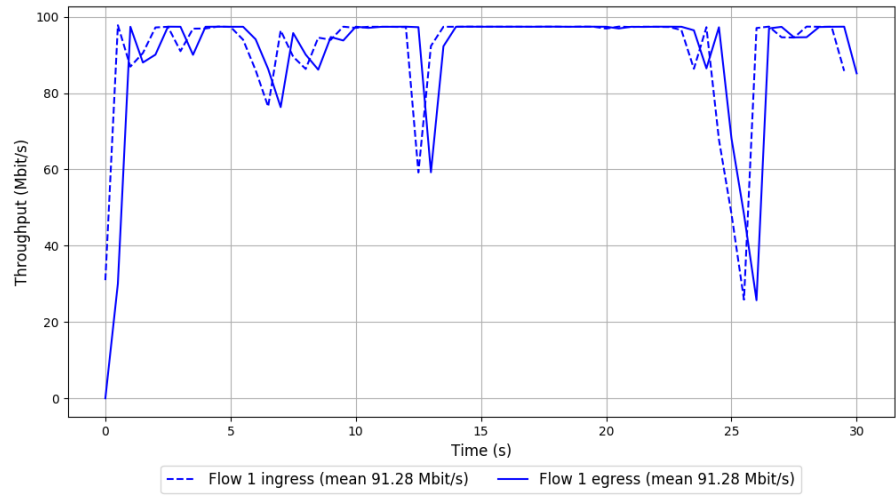
-- Flow 1:

Average throughput: 91.28 Mbit/s

95th percentile per-packet one-way delay: 5.542 ms

Loss rate: 0.02%

Run 5: Report of QUIC Cubic — Data Link

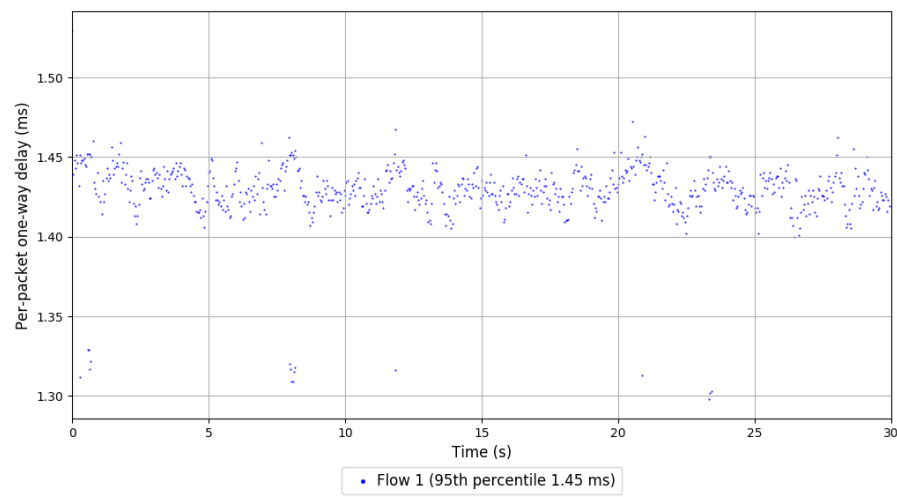
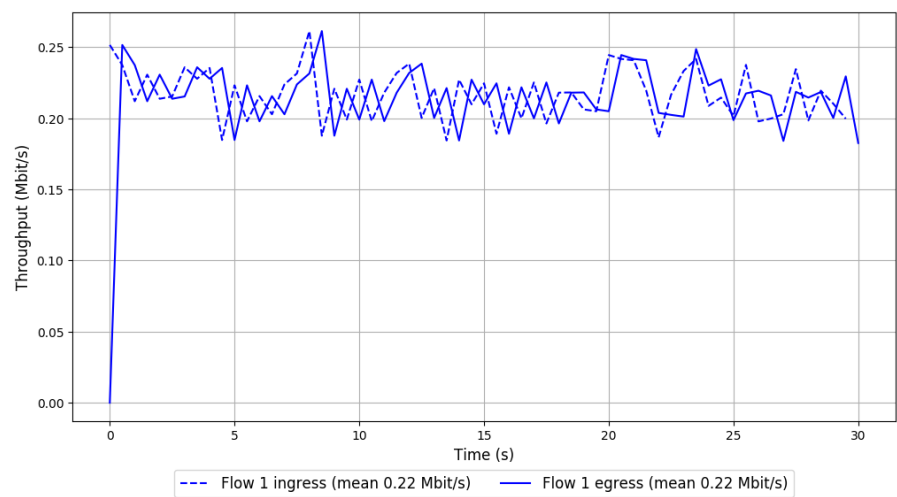


Run 1: Statistics of SCReAM

Start at: 2019-07-12 10:12:10
End at: 2019-07-12 10:12:40
Local clock offset: -7.723 ms
Remote clock offset: -0.175 ms

Below is generated by plot.py at 2019-07-12 12:32:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.450 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.450 ms
Loss rate: 0.13%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-07-12 10:39:14

End at: 2019-07-12 10:39:44

Local clock offset: -7.532 ms

Remote clock offset: 0.132 ms

Below is generated by plot.py at 2019-07-12 12:32:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.760 ms

Loss rate: 0.13%

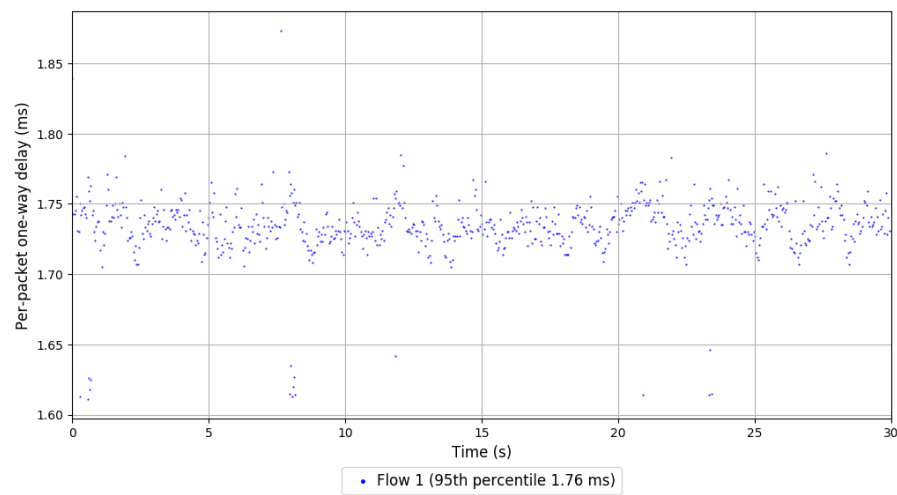
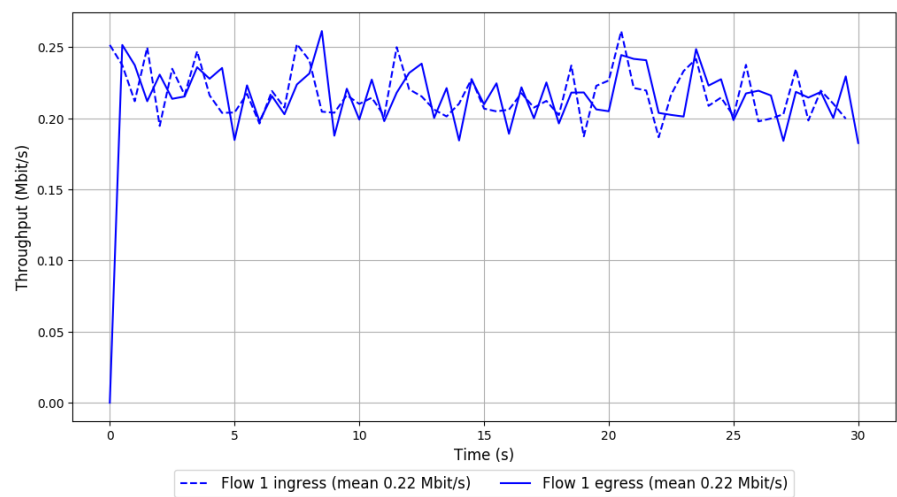
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.760 ms

Loss rate: 0.13%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-07-12 11:06:22

End at: 2019-07-12 11:06:52

Local clock offset: -6.938 ms

Remote clock offset: 0.561 ms

Below is generated by plot.py at 2019-07-12 12:32:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.200 ms

Loss rate: 0.00%

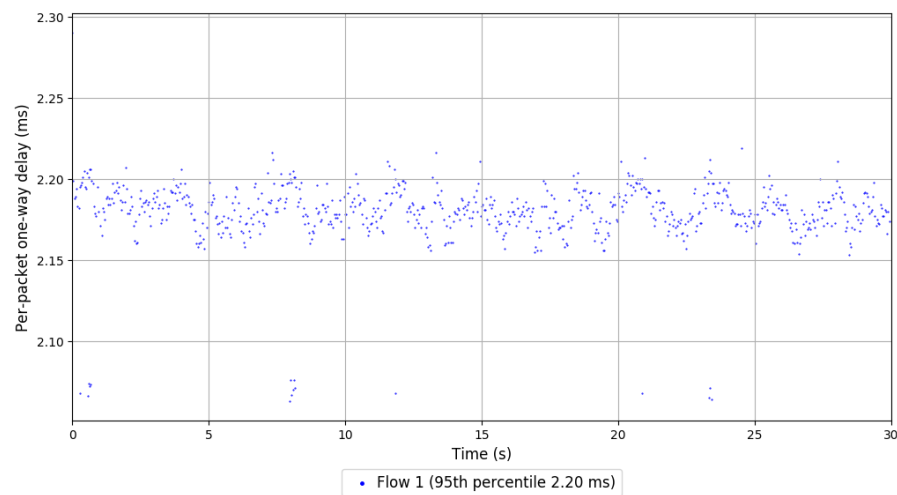
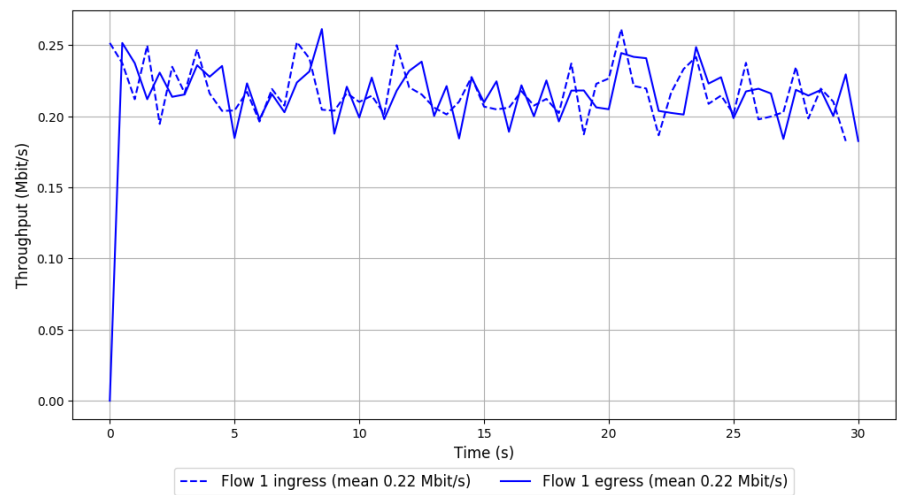
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.200 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-07-12 11:33:29

End at: 2019-07-12 11:33:59

Local clock offset: -6.507 ms

Remote clock offset: 0.599 ms

Below is generated by plot.py at 2019-07-12 12:32:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.271 ms

Loss rate: 0.00%

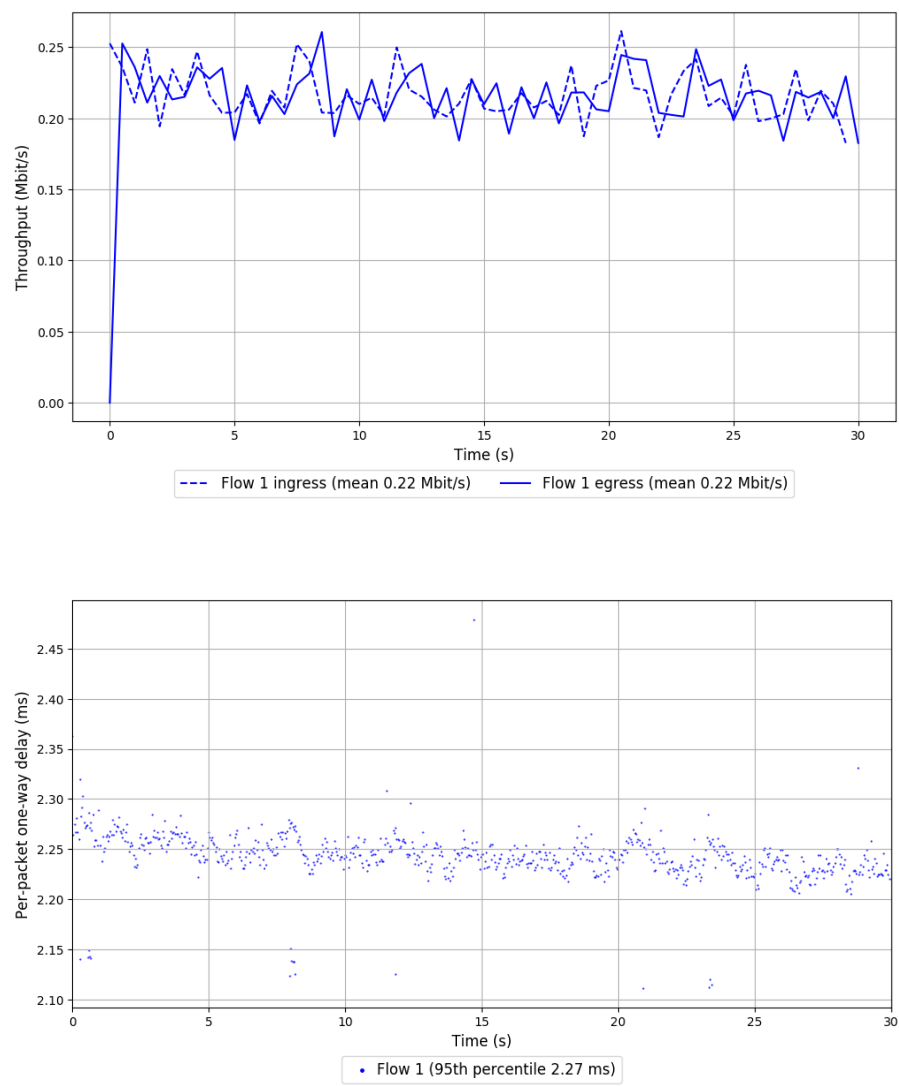
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.271 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-07-12 12:00:36

End at: 2019-07-12 12:01:06

Local clock offset: -6.532 ms

Remote clock offset: 0.587 ms

Below is generated by plot.py at 2019-07-12 12:32:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.735 ms

Loss rate: 0.00%

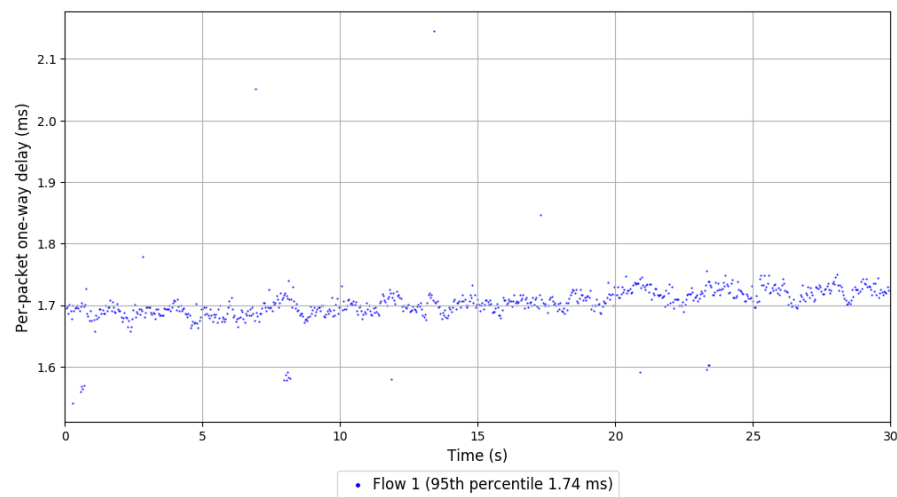
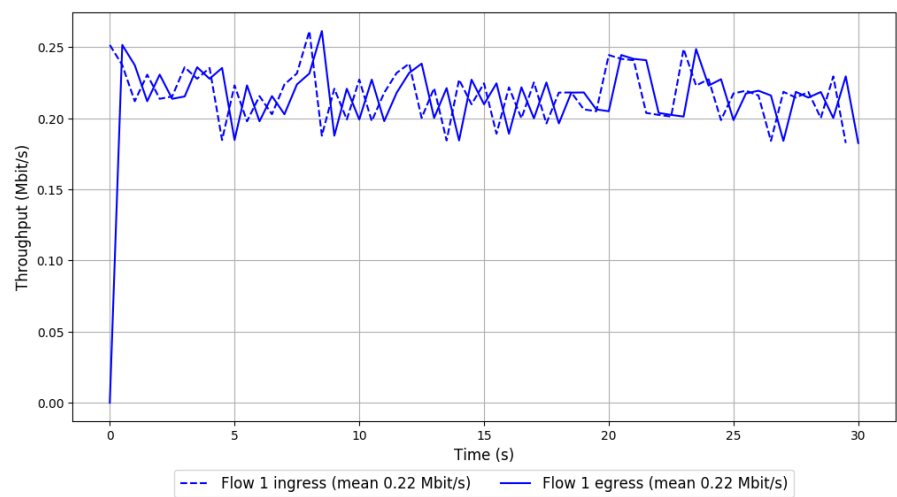
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.735 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

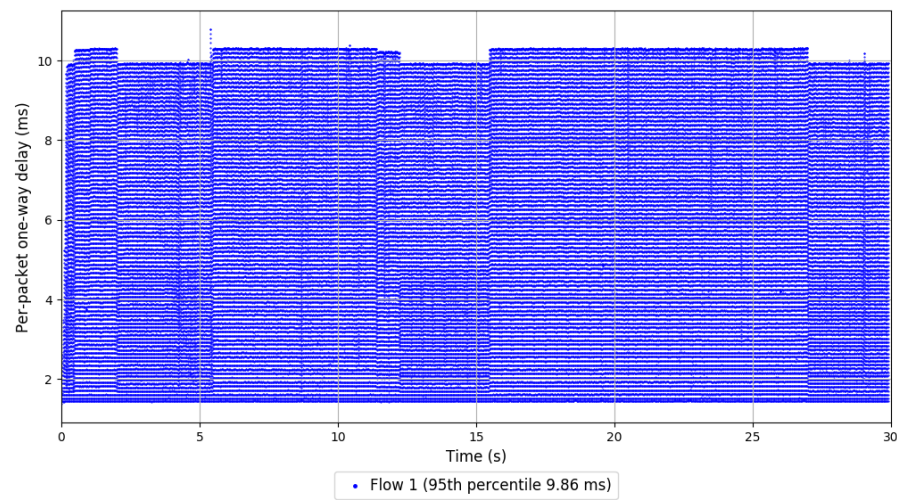
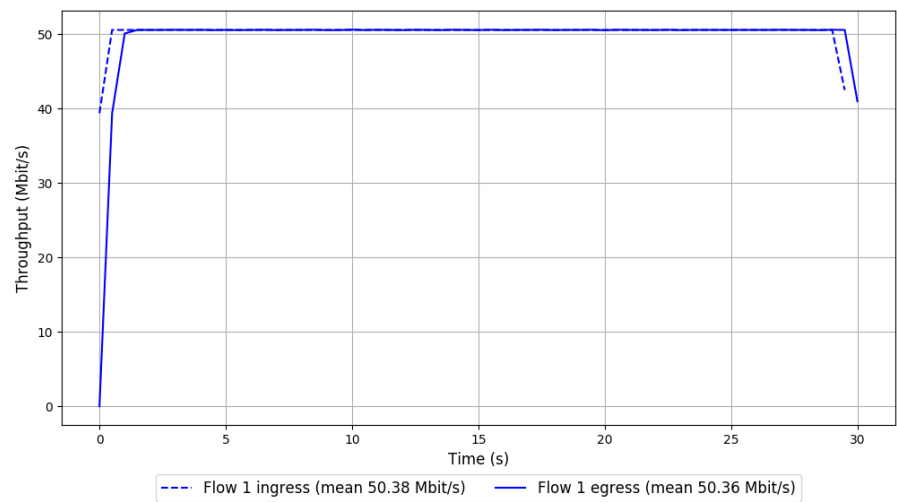


Run 1: Statistics of Sprout

Start at: 2019-07-12 10:20:03
End at: 2019-07-12 10:20:33
Local clock offset: -7.712 ms
Remote clock offset: -0.058 ms

Below is generated by plot.py at 2019-07-12 12:32:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.36 Mbit/s
95th percentile per-packet one-way delay: 9.859 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 50.36 Mbit/s
95th percentile per-packet one-way delay: 9.859 ms
Loss rate: 0.07%

Run 1: Report of Sprout — Data Link

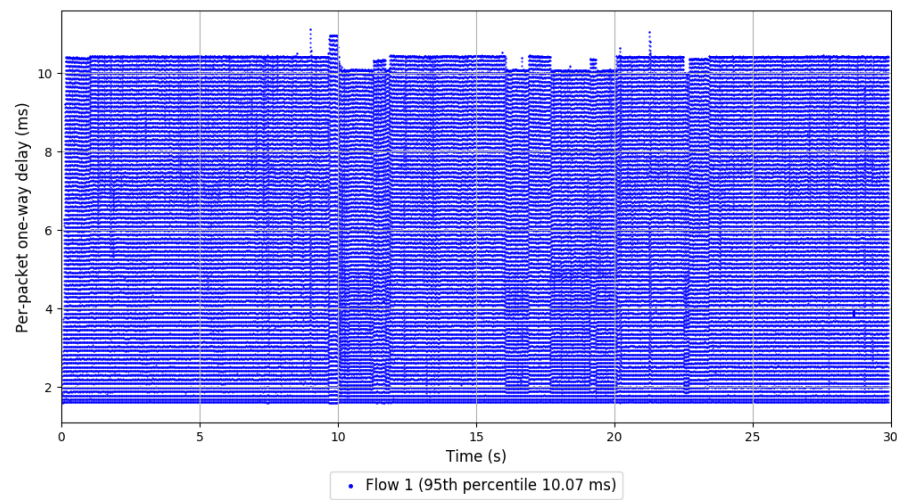
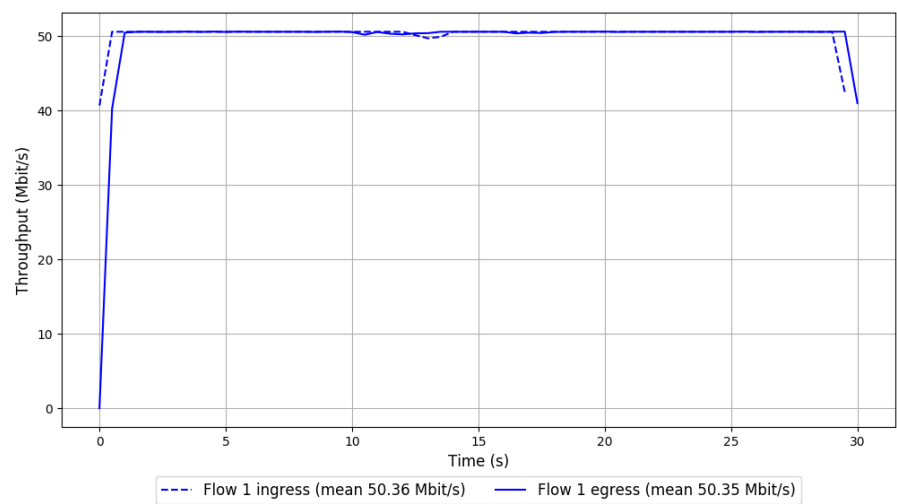


Run 2: Statistics of Sprout

Start at: 2019-07-12 10:47:08
End at: 2019-07-12 10:47:38
Local clock offset: -7.547 ms
Remote clock offset: 0.384 ms

Below is generated by plot.py at 2019-07-12 12:32:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.35 Mbit/s
95th percentile per-packet one-way delay: 10.071 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 50.35 Mbit/s
95th percentile per-packet one-way delay: 10.071 ms
Loss rate: 0.07%

Run 2: Report of Sprout — Data Link

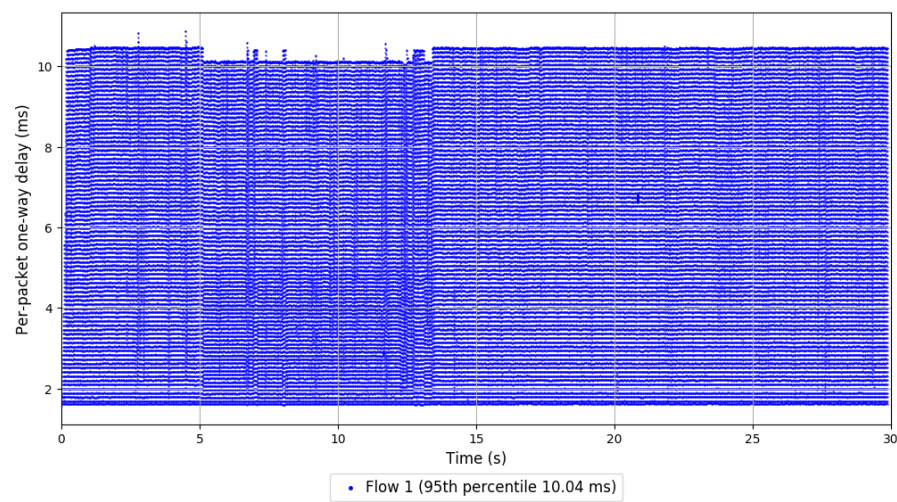
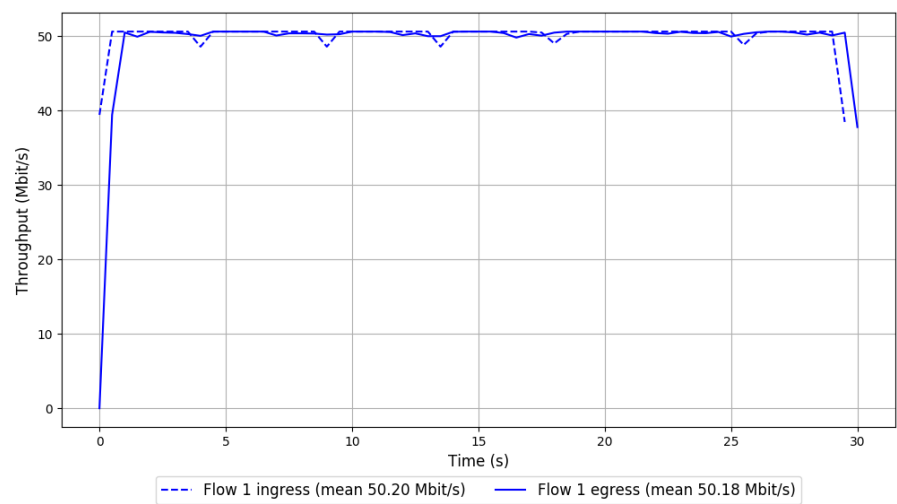


Run 3: Statistics of Sprout

Start at: 2019-07-12 11:14:16
End at: 2019-07-12 11:14:46
Local clock offset: -7.555 ms
Remote clock offset: 0.555 ms

Below is generated by plot.py at 2019-07-12 12:32:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.18 Mbit/s
95th percentile per-packet one-way delay: 10.045 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 50.18 Mbit/s
95th percentile per-packet one-way delay: 10.045 ms
Loss rate: 0.07%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-07-12 11:41:22

End at: 2019-07-12 11:41:52

Local clock offset: -6.691 ms

Remote clock offset: 0.57 ms

Below is generated by plot.py at 2019-07-12 12:32:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.20 Mbit/s

95th percentile per-packet one-way delay: 10.241 ms

Loss rate: 0.05%

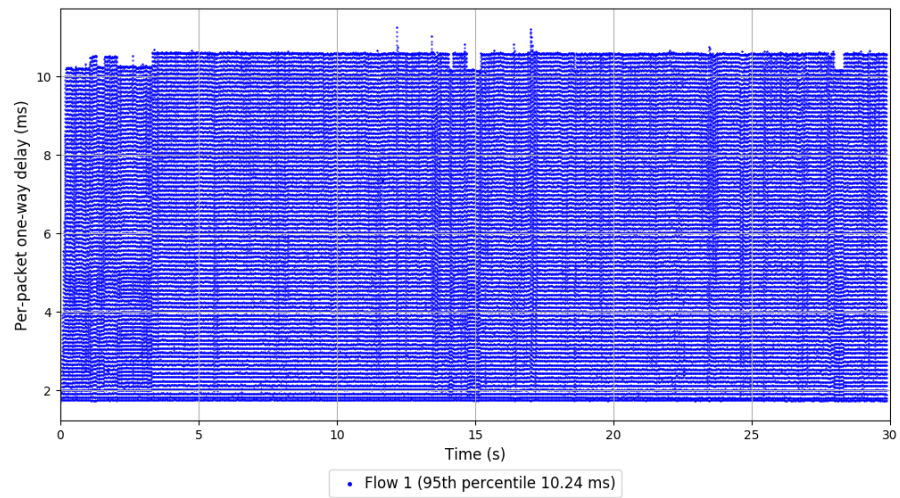
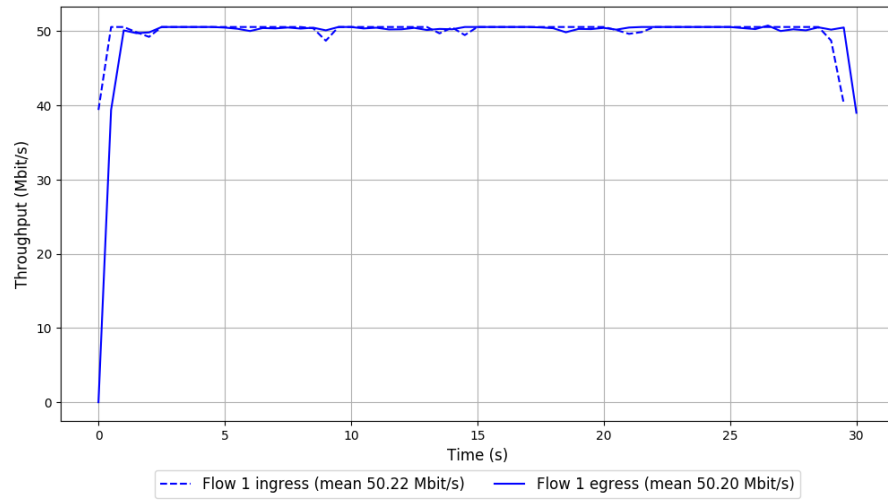
-- Flow 1:

Average throughput: 50.20 Mbit/s

95th percentile per-packet one-way delay: 10.241 ms

Loss rate: 0.05%

Run 4: Report of Sprout — Data Link

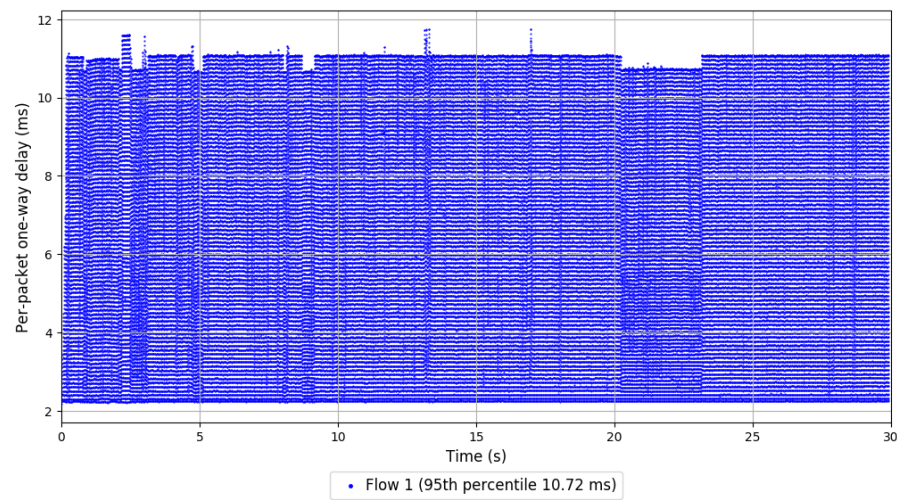
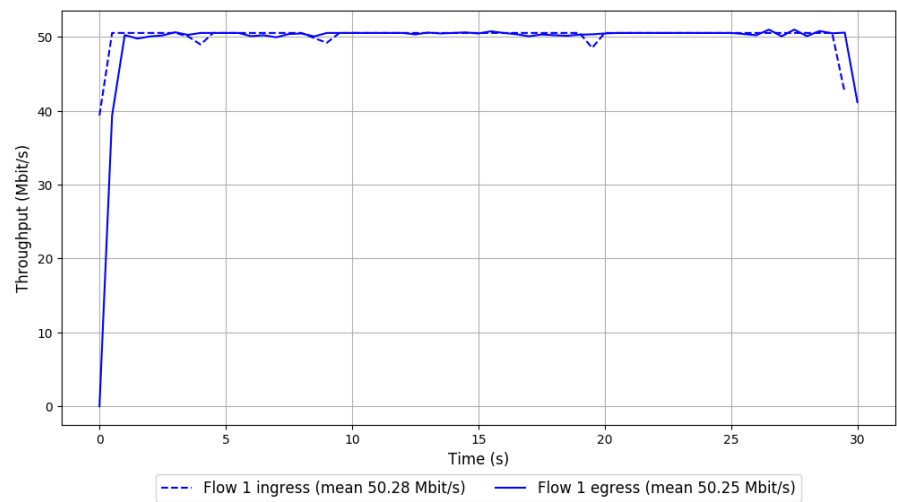


Run 5: Statistics of Sprout

Start at: 2019-07-12 12:08:30
End at: 2019-07-12 12:09:00
Local clock offset: -7.113 ms
Remote clock offset: 0.464 ms

Below is generated by plot.py at 2019-07-12 12:32:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.25 Mbit/s
95th percentile per-packet one-way delay: 10.718 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 50.25 Mbit/s
95th percentile per-packet one-way delay: 10.718 ms
Loss rate: 0.05%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-07-12 10:27:52

End at: 2019-07-12 10:28:23

Local clock offset: -7.508 ms

Remote clock offset: 0.115 ms

Below is generated by plot.py at 2019-07-12 12:34:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.59 Mbit/s

95th percentile per-packet one-way delay: 1.620 ms

Loss rate: 0.02%

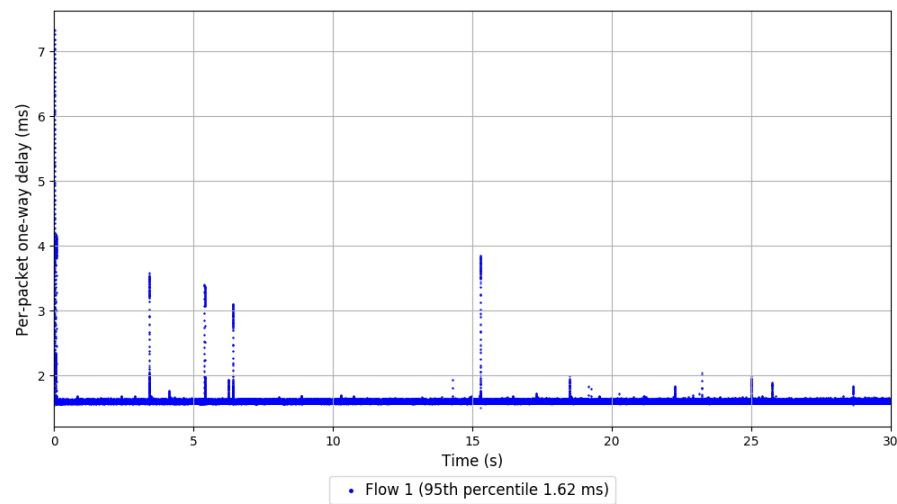
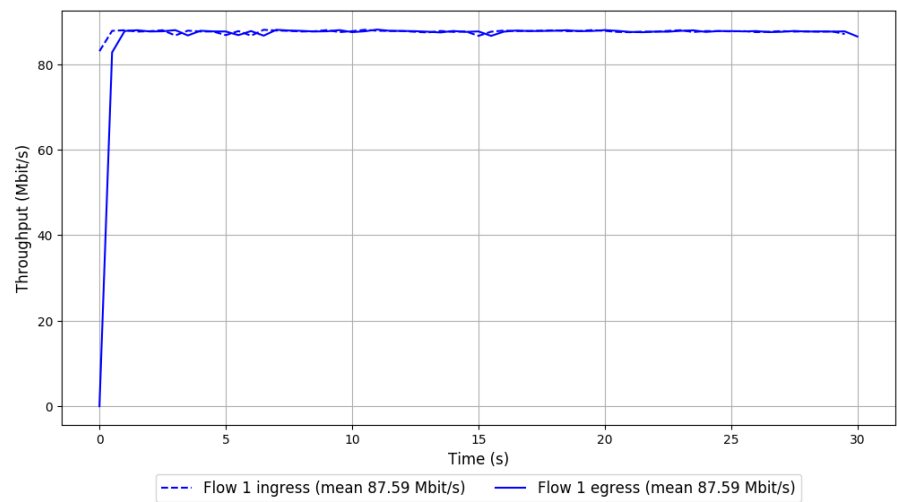
-- Flow 1:

Average throughput: 87.59 Mbit/s

95th percentile per-packet one-way delay: 1.620 ms

Loss rate: 0.02%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-07-12 10:55:00

End at: 2019-07-12 10:55:30

Local clock offset: -6.783 ms

Remote clock offset: 0.34 ms

Below is generated by plot.py at 2019-07-12 12:34:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.74 Mbit/s

95th percentile per-packet one-way delay: 3.002 ms

Loss rate: 0.02%

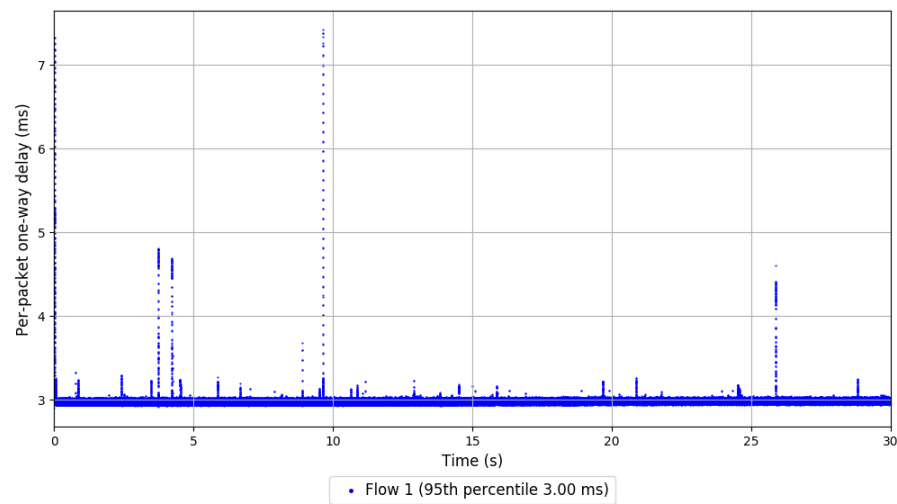
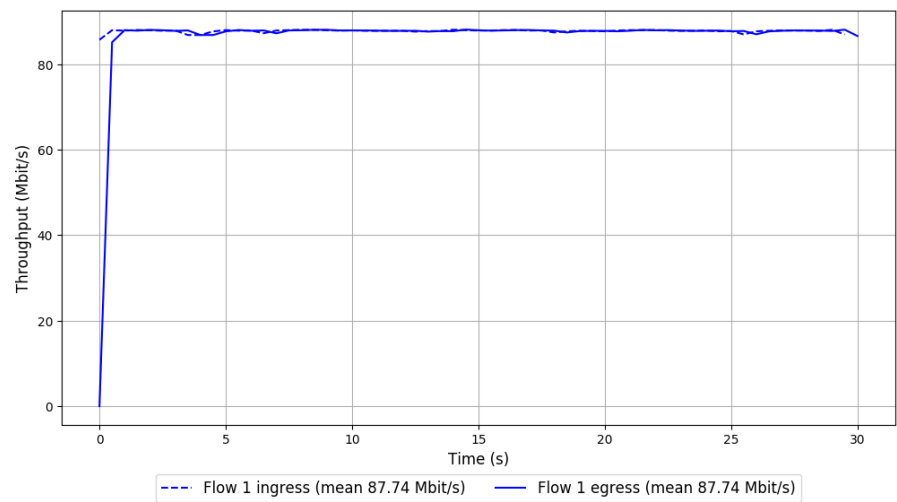
-- Flow 1:

Average throughput: 87.74 Mbit/s

95th percentile per-packet one-way delay: 3.002 ms

Loss rate: 0.02%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-07-12 11:22:09

End at: 2019-07-12 11:22:39

Local clock offset: -7.492 ms

Remote clock offset: 0.635 ms

Below is generated by plot.py at 2019-07-12 12:34:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.32 Mbit/s

95th percentile per-packet one-way delay: 2.088 ms

Loss rate: 0.02%

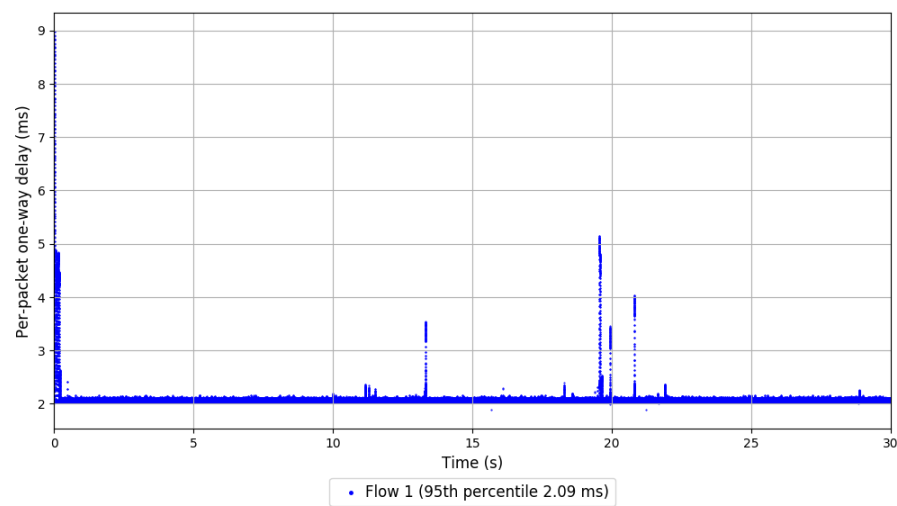
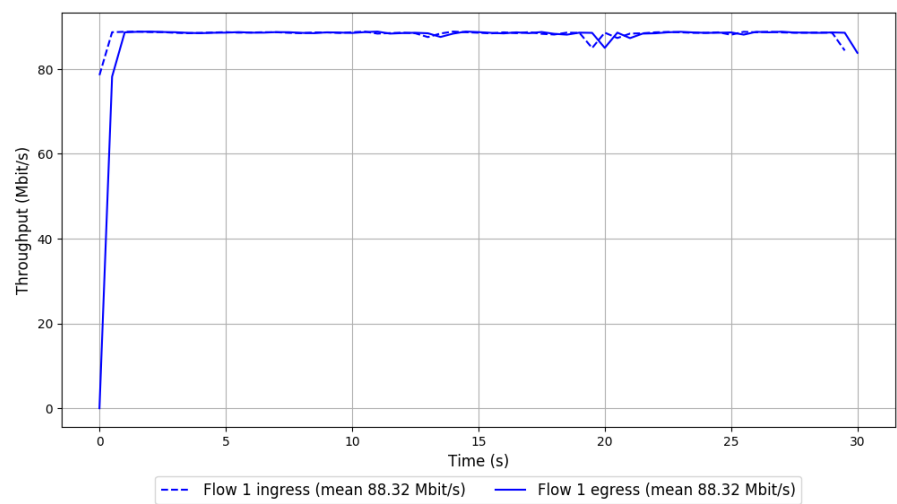
-- Flow 1:

Average throughput: 88.32 Mbit/s

95th percentile per-packet one-way delay: 2.088 ms

Loss rate: 0.02%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-07-12 11:49:15

End at: 2019-07-12 11:49:45

Local clock offset: -6.489 ms

Remote clock offset: 0.602 ms

Below is generated by plot.py at 2019-07-12 12:34:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.03 Mbit/s

95th percentile per-packet one-way delay: 1.663 ms

Loss rate: 0.02%

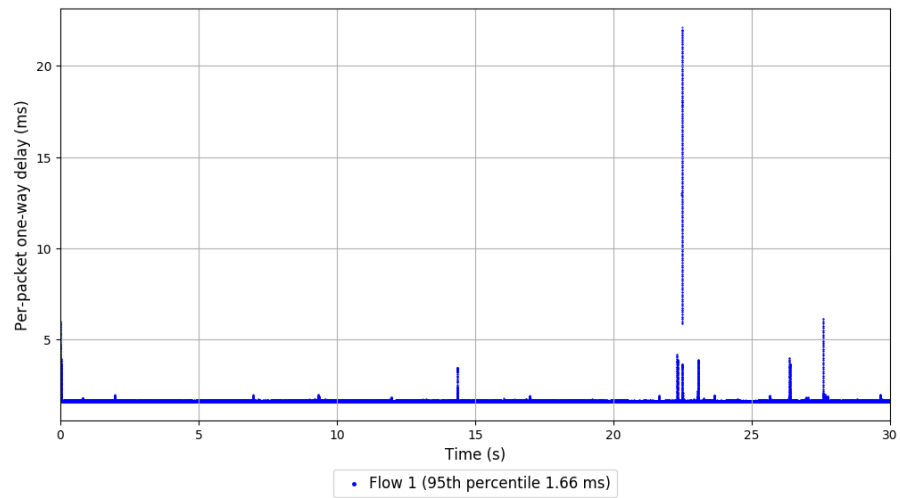
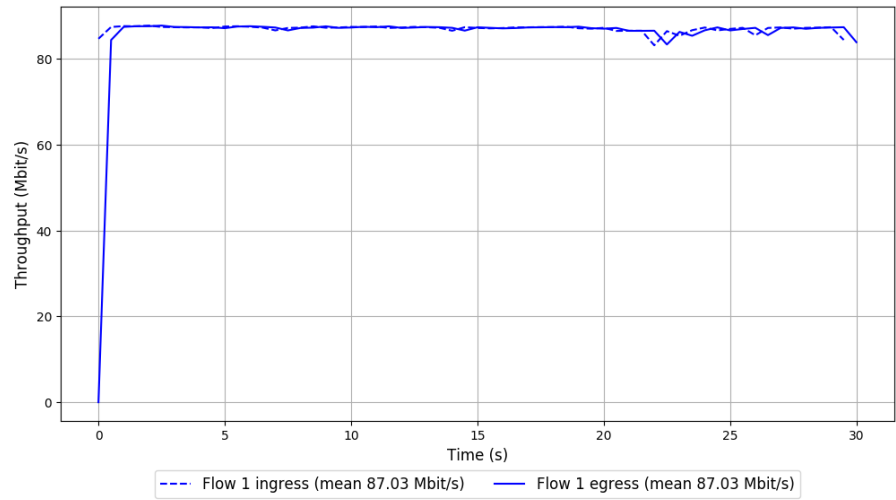
-- Flow 1:

Average throughput: 87.03 Mbit/s

95th percentile per-packet one-way delay: 1.663 ms

Loss rate: 0.02%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-07-12 12:16:21

End at: 2019-07-12 12:16:51

Local clock offset: -6.654 ms

Remote clock offset: 0.438 ms

Below is generated by plot.py at 2019-07-12 12:34:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.33 Mbit/s

95th percentile per-packet one-way delay: 2.428 ms

Loss rate: 0.02%

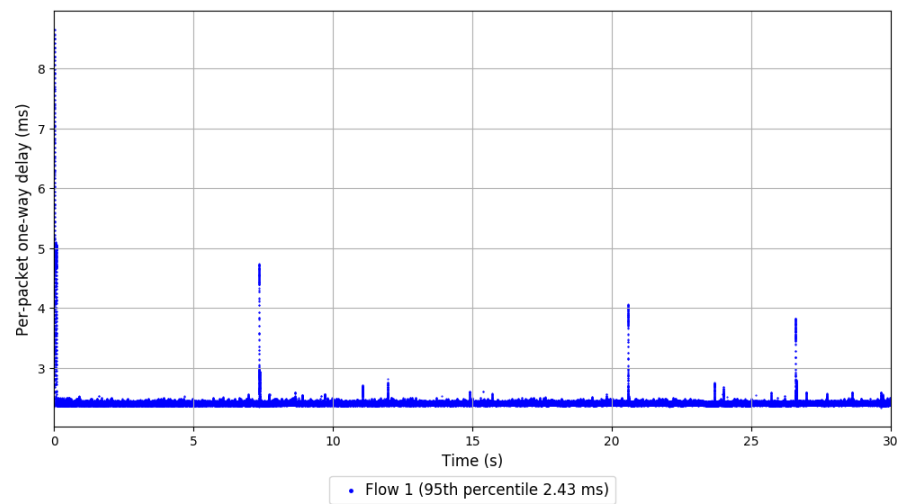
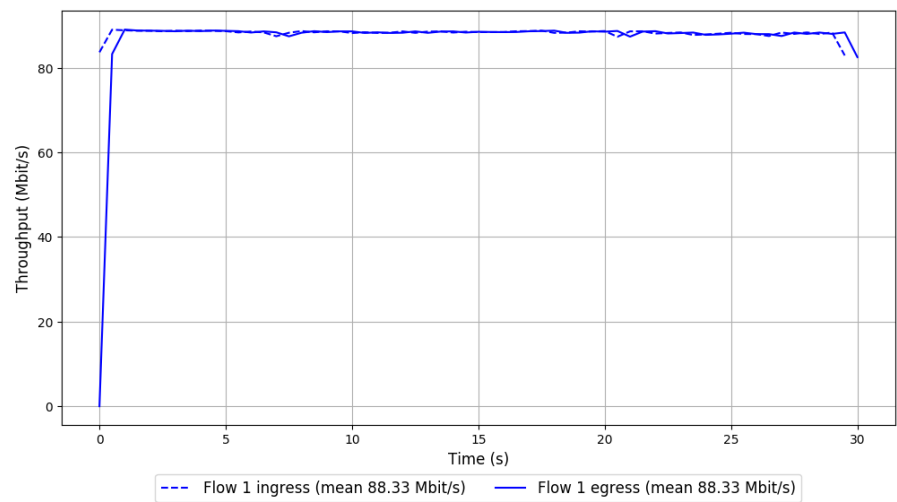
-- Flow 1:

Average throughput: 88.33 Mbit/s

95th percentile per-packet one-way delay: 2.428 ms

Loss rate: 0.02%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-07-12 10:11:02

End at: 2019-07-12 10:11:32

Local clock offset: -7.545 ms

Remote clock offset: -0.19 ms

Below is generated by plot.py at 2019-07-12 12:34:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.44 Mbit/s

95th percentile per-packet one-way delay: 3.439 ms

Loss rate: 0.02%

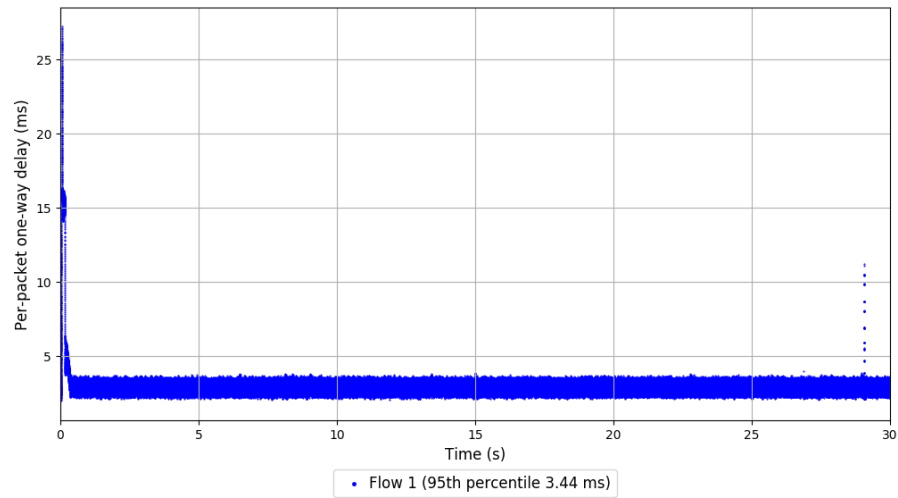
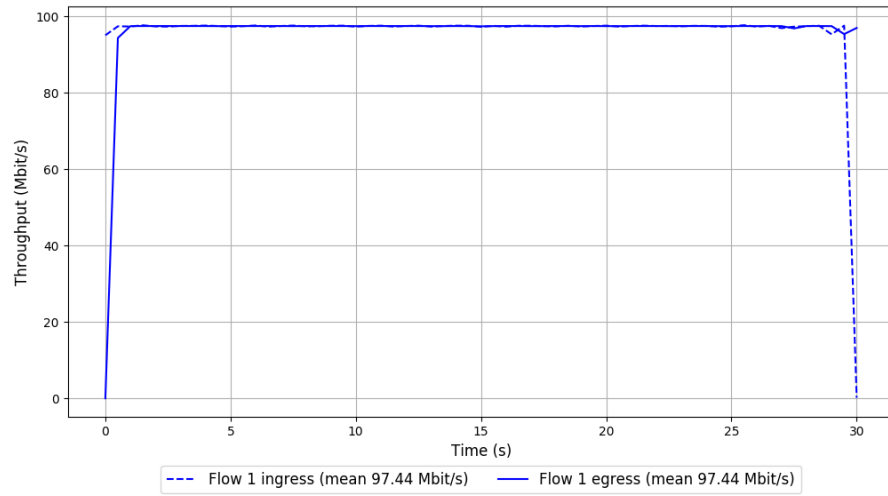
-- Flow 1:

Average throughput: 97.44 Mbit/s

95th percentile per-packet one-way delay: 3.439 ms

Loss rate: 0.02%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-07-12 10:38:06

End at: 2019-07-12 10:38:36

Local clock offset: -7.752 ms

Remote clock offset: 0.265 ms

Below is generated by plot.py at 2019-07-12 12:34:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.00 Mbit/s

95th percentile per-packet one-way delay: 2.652 ms

Loss rate: 0.01%

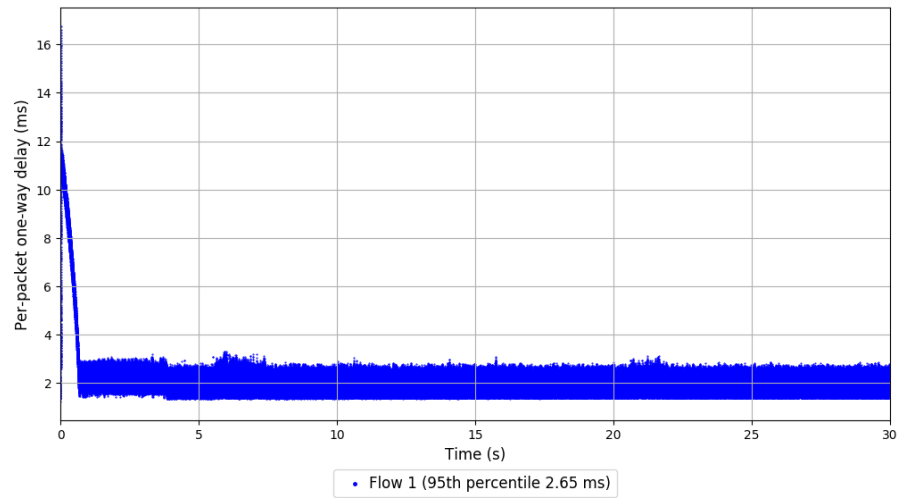
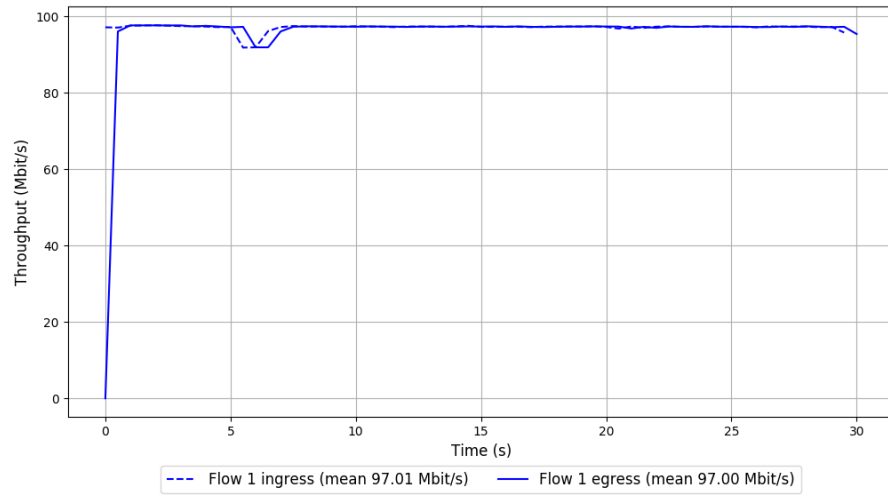
-- Flow 1:

Average throughput: 97.00 Mbit/s

95th percentile per-packet one-way delay: 2.652 ms

Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-07-12 11:05:14

End at: 2019-07-12 11:05:44

Local clock offset: -6.731 ms

Remote clock offset: 0.548 ms

Below is generated by plot.py at 2019-07-12 12:34:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.14 Mbit/s

95th percentile per-packet one-way delay: 4.096 ms

Loss rate: 0.02%

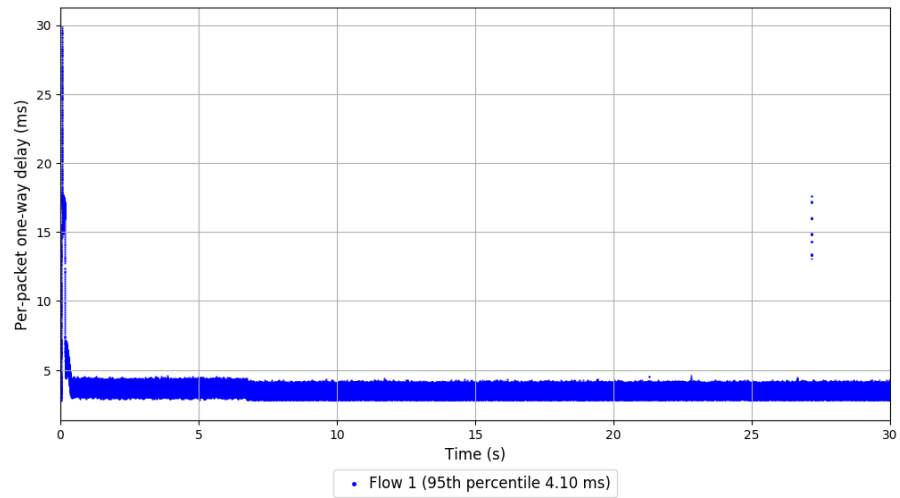
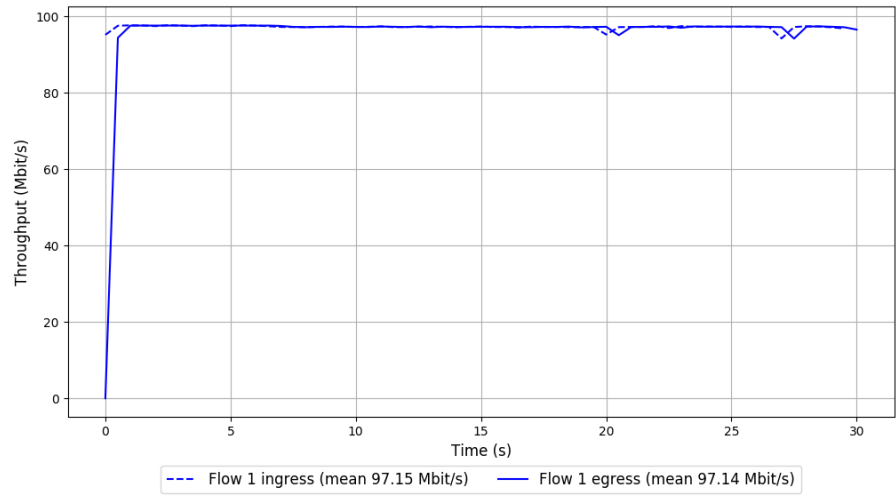
-- Flow 1:

Average throughput: 97.14 Mbit/s

95th percentile per-packet one-way delay: 4.096 ms

Loss rate: 0.02%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-07-12 11:32:21

End at: 2019-07-12 11:32:51

Local clock offset: -7.155 ms

Remote clock offset: 0.65 ms

Below is generated by plot.py at 2019-07-12 12:34:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.40 Mbit/s

95th percentile per-packet one-way delay: 2.936 ms

Loss rate: 0.02%

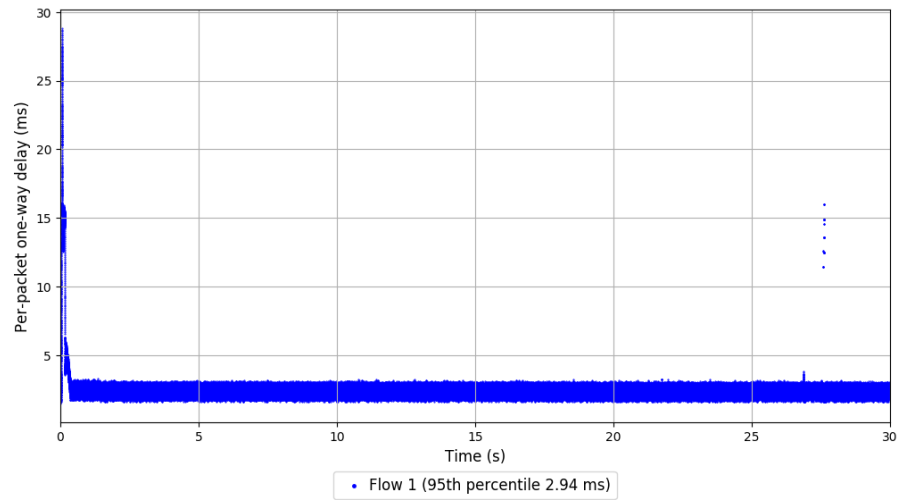
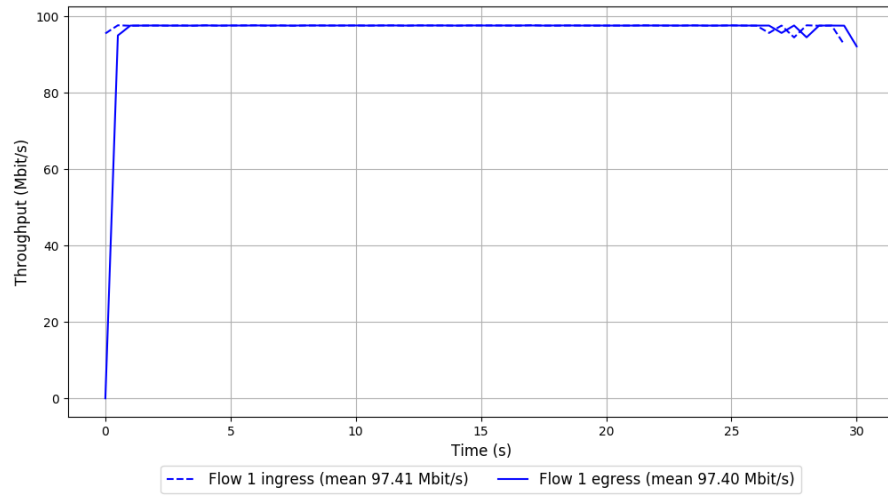
-- Flow 1:

Average throughput: 97.40 Mbit/s

95th percentile per-packet one-way delay: 2.936 ms

Loss rate: 0.02%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-07-12 11:59:28

End at: 2019-07-12 11:59:58

Local clock offset: -5.842 ms

Remote clock offset: 0.579 ms

Below is generated by plot.py at 2019-07-12 12:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.71 Mbit/s

95th percentile per-packet one-way delay: 3.573 ms

Loss rate: 0.01%

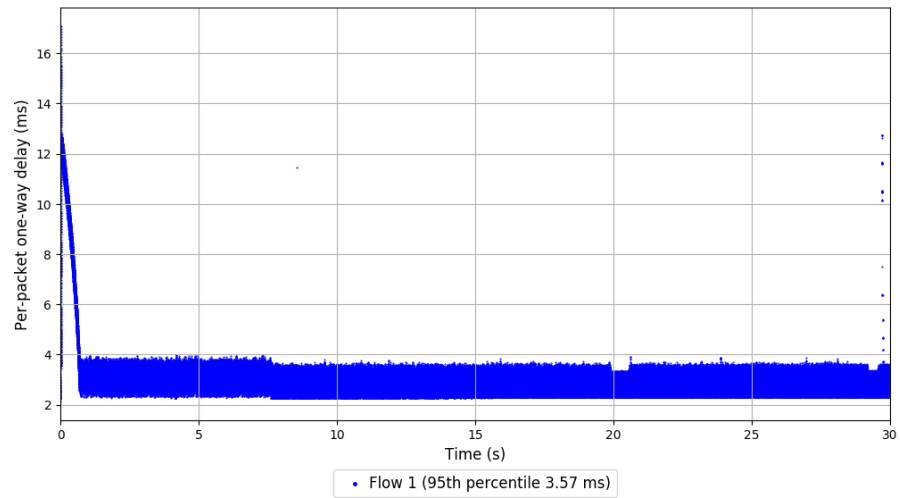
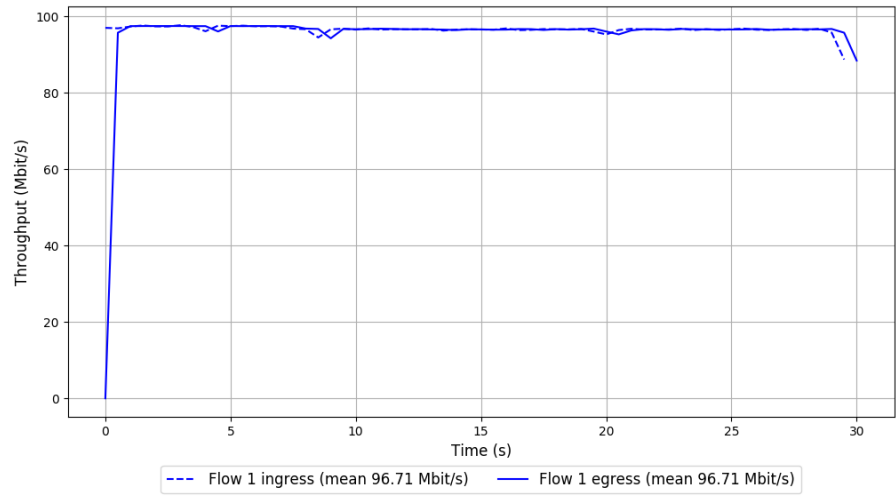
-- Flow 1:

Average throughput: 96.71 Mbit/s

95th percentile per-packet one-way delay: 3.573 ms

Loss rate: 0.01%

Run 5: Report of TCP Vegas — Data Link

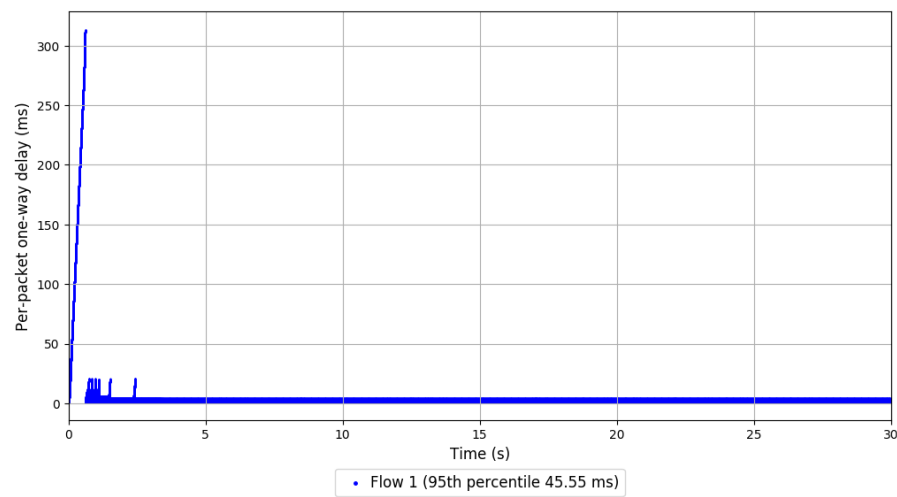
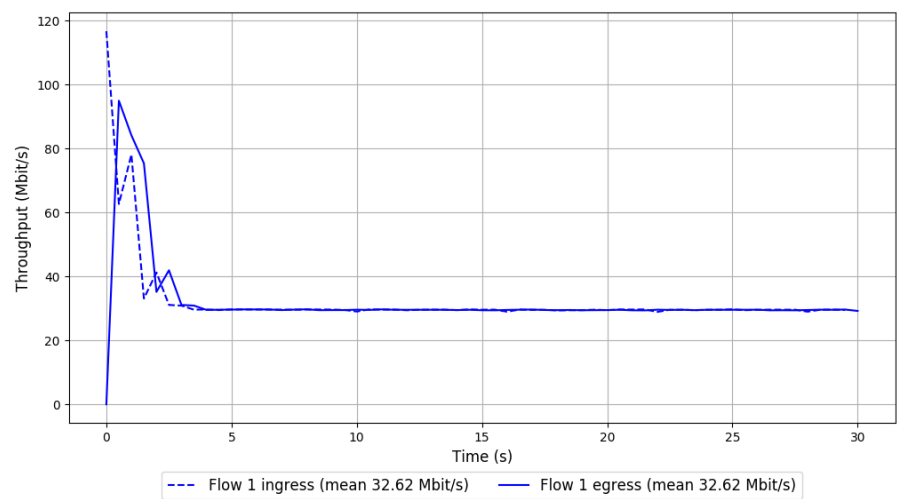


Run 1: Statistics of Verus

Start at: 2019-07-12 10:06:28
End at: 2019-07-12 10:06:58
Local clock offset: -7.778 ms
Remote clock offset: -0.165 ms

Below is generated by plot.py at 2019-07-12 12:34:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 32.62 Mbit/s
95th percentile per-packet one-way delay: 45.551 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 32.62 Mbit/s
95th percentile per-packet one-way delay: 45.551 ms
Loss rate: 0.03%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-07-12 10:33:30

End at: 2019-07-12 10:34:00

Local clock offset: -6.783 ms

Remote clock offset: 0.159 ms

Below is generated by plot.py at 2019-07-12 12:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.28 Mbit/s

95th percentile per-packet one-way delay: 15.927 ms

Loss rate: 0.05%

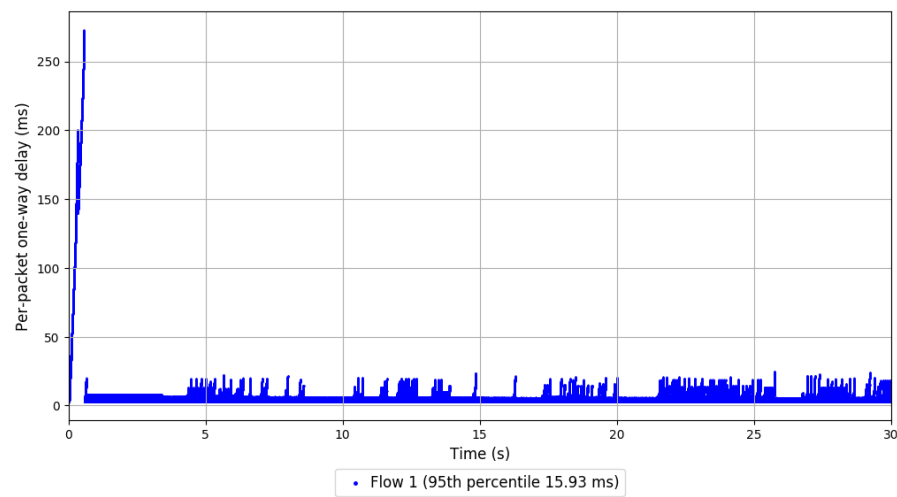
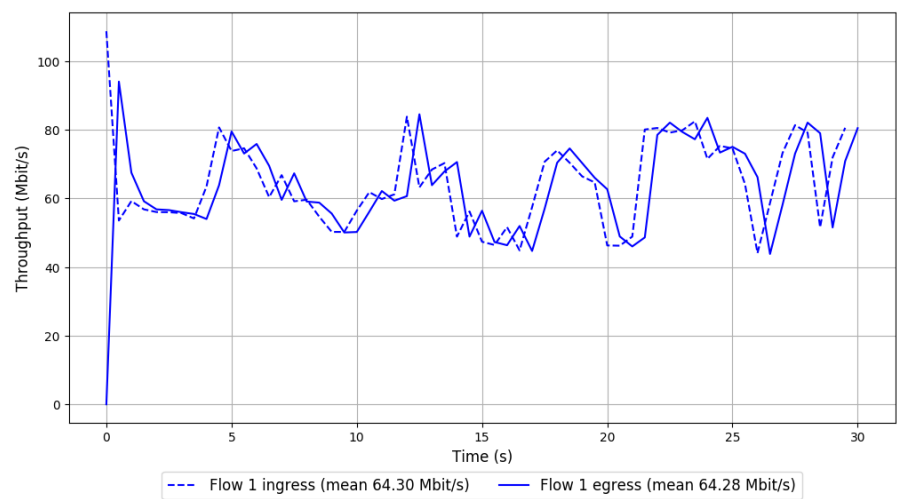
-- Flow 1:

Average throughput: 64.28 Mbit/s

95th percentile per-packet one-way delay: 15.927 ms

Loss rate: 0.05%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-07-12 11:00:40

End at: 2019-07-12 11:01:10

Local clock offset: -7.025 ms

Remote clock offset: 0.471 ms

Below is generated by plot.py at 2019-07-12 12:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.42 Mbit/s

95th percentile per-packet one-way delay: 30.131 ms

Loss rate: 0.05%

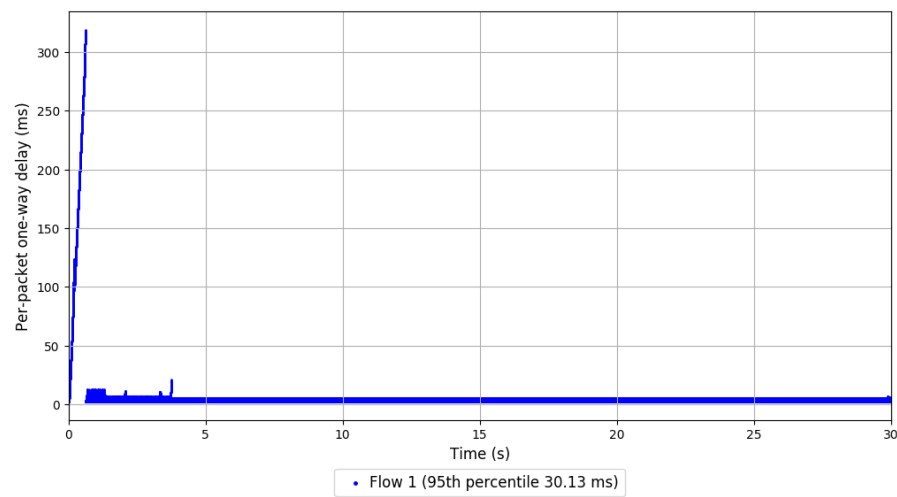
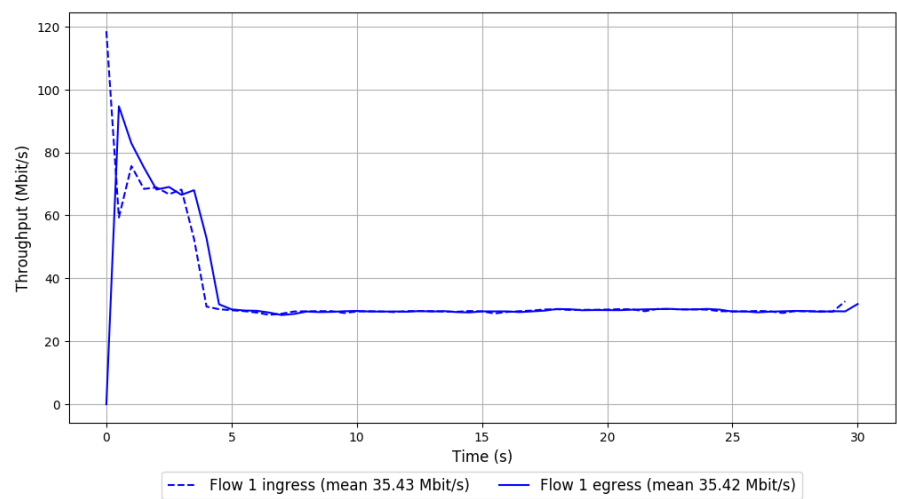
-- Flow 1:

Average throughput: 35.42 Mbit/s

95th percentile per-packet one-way delay: 30.131 ms

Loss rate: 0.05%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-07-12 11:27:47

End at: 2019-07-12 11:28:17

Local clock offset: -7.547 ms

Remote clock offset: 0.63 ms

Below is generated by plot.py at 2019-07-12 12:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.58 Mbit/s

95th percentile per-packet one-way delay: 17.566 ms

Loss rate: 0.05%

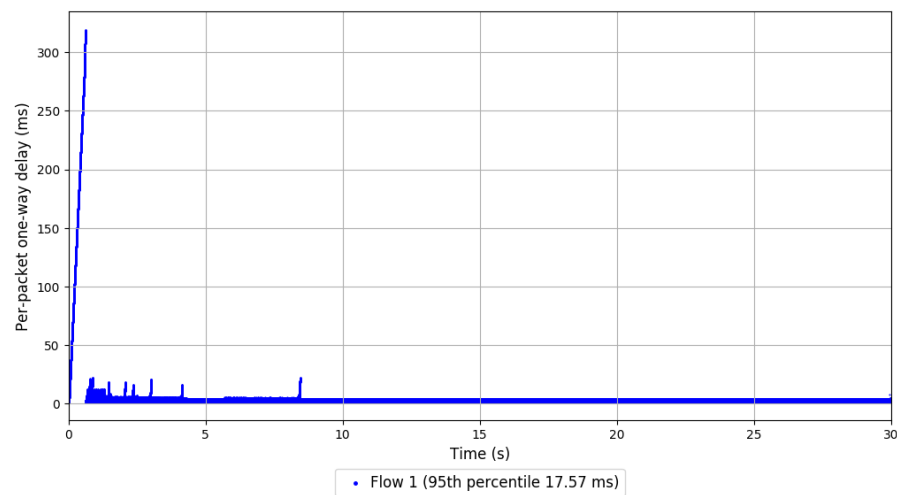
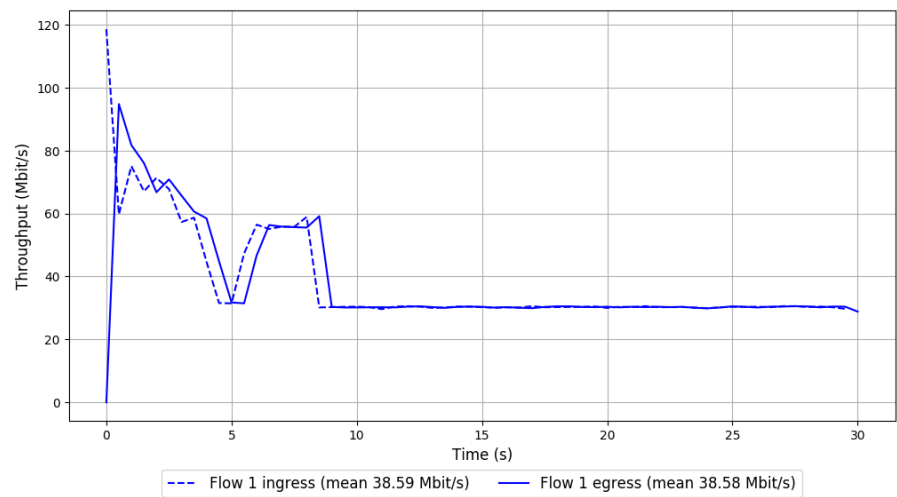
-- Flow 1:

Average throughput: 38.58 Mbit/s

95th percentile per-packet one-way delay: 17.566 ms

Loss rate: 0.05%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-07-12 11:54:52

End at: 2019-07-12 11:55:22

Local clock offset: -5.619 ms

Remote clock offset: 0.588 ms

Below is generated by plot.py at 2019-07-12 12:35:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.72 Mbit/s

95th percentile per-packet one-way delay: 13.076 ms

Loss rate: 0.04%

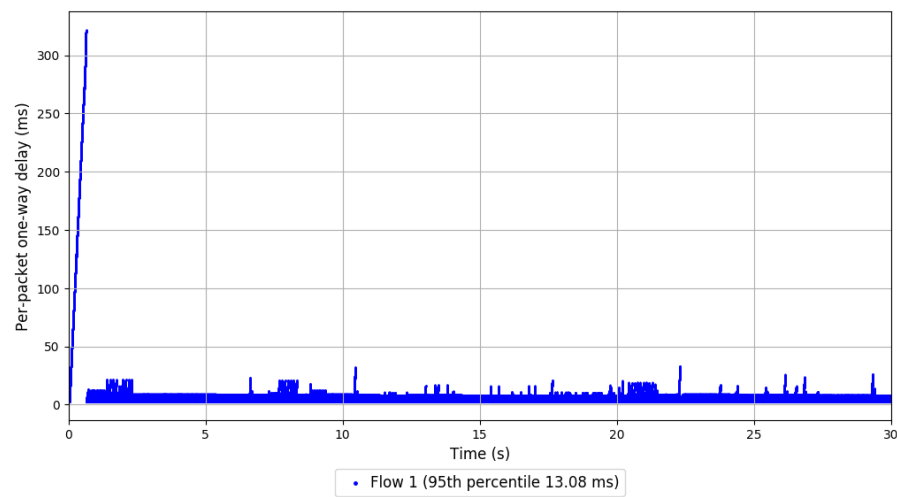
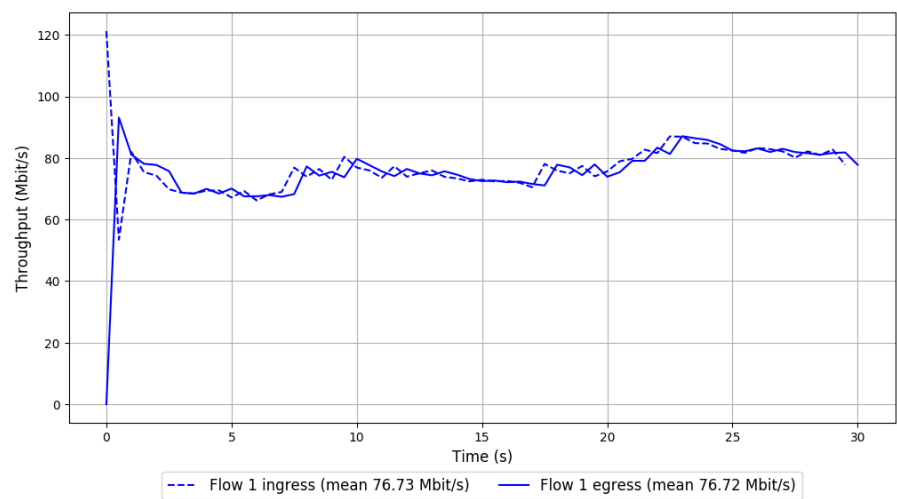
-- Flow 1:

Average throughput: 76.72 Mbit/s

95th percentile per-packet one-way delay: 13.076 ms

Loss rate: 0.04%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-07-12 10:26:43

End at: 2019-07-12 10:27:13

Local clock offset: -7.515 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2019-07-12 12:35:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.11 Mbit/s

95th percentile per-packet one-way delay: 2.182 ms

Loss rate: 0.02%

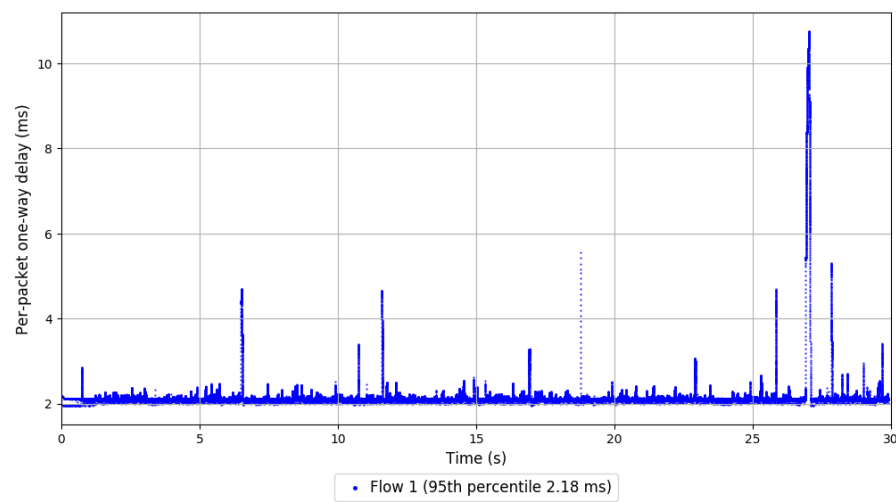
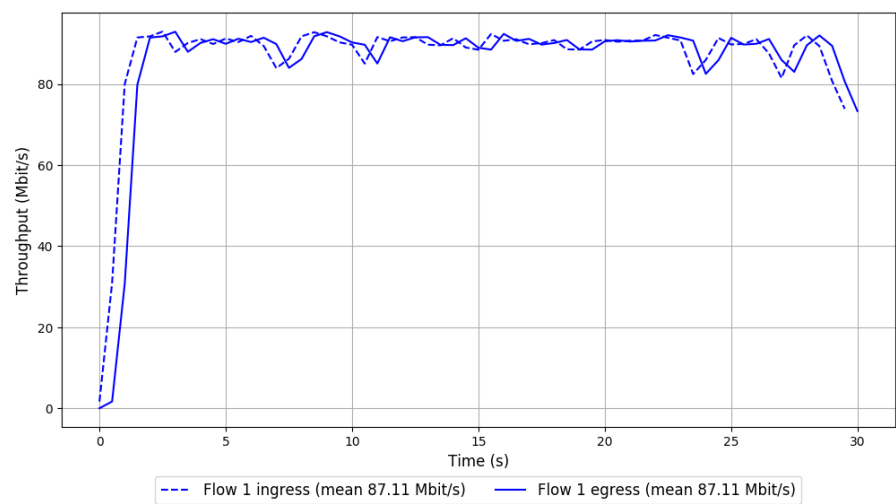
-- Flow 1:

Average throughput: 87.11 Mbit/s

95th percentile per-packet one-way delay: 2.182 ms

Loss rate: 0.02%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-07-12 10:53:51

End at: 2019-07-12 10:54:21

Local clock offset: -7.793 ms

Remote clock offset: 0.34 ms

Below is generated by plot.py at 2019-07-12 12:35:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.45 Mbit/s

95th percentile per-packet one-way delay: 1.603 ms

Loss rate: 0.02%

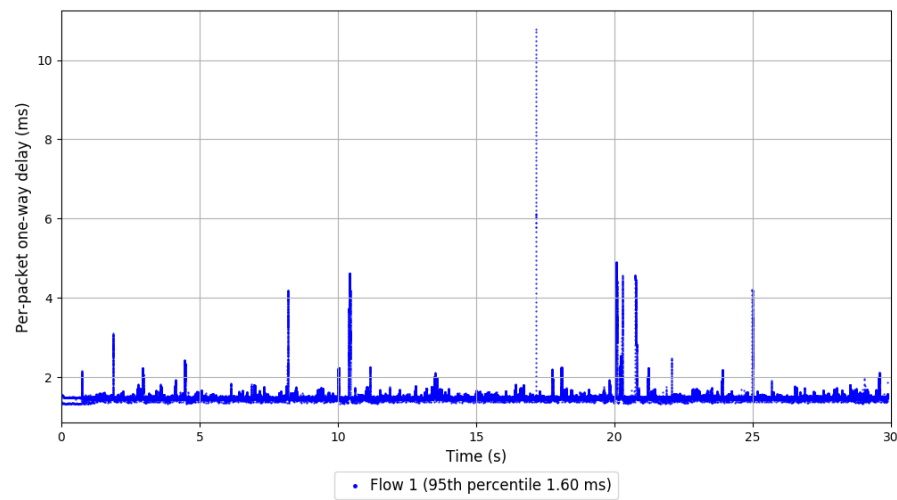
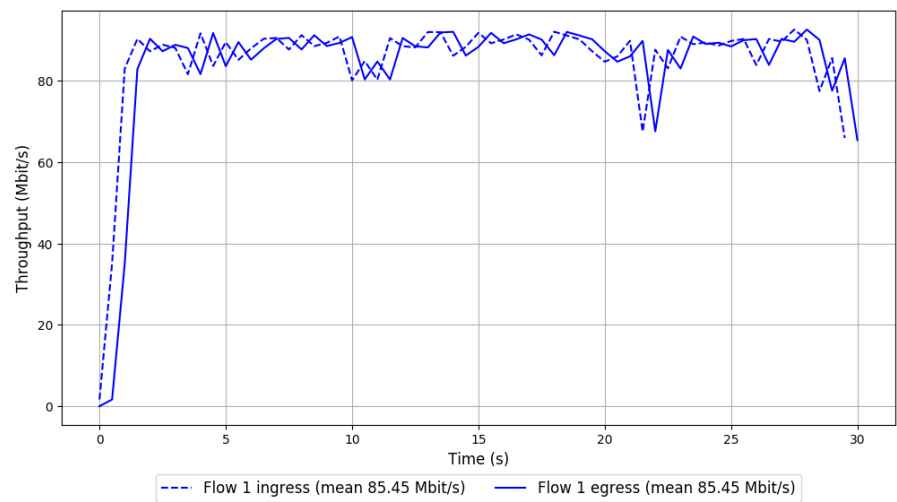
-- Flow 1:

Average throughput: 85.45 Mbit/s

95th percentile per-packet one-way delay: 1.603 ms

Loss rate: 0.02%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-07-12 11:21:00

End at: 2019-07-12 11:21:30

Local clock offset: -6.91 ms

Remote clock offset: 0.608 ms

Below is generated by plot.py at 2019-07-12 12:35:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.78 Mbit/s

95th percentile per-packet one-way delay: 2.697 ms

Loss rate: 0.02%

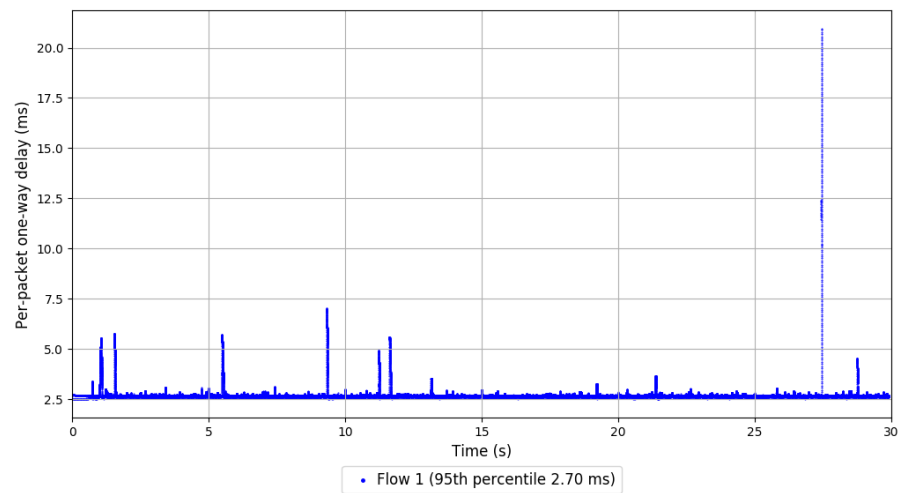
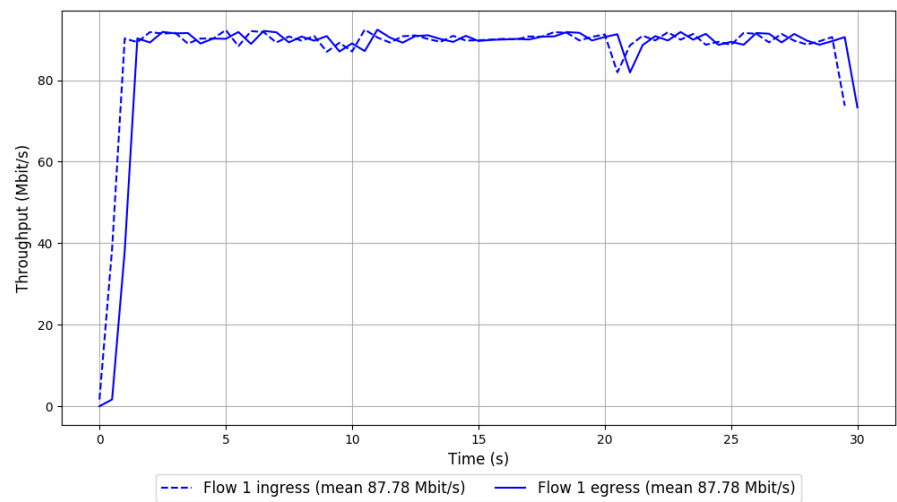
-- Flow 1:

Average throughput: 87.78 Mbit/s

95th percentile per-packet one-way delay: 2.697 ms

Loss rate: 0.02%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-07-12 11:48:06

End at: 2019-07-12 11:48:36

Local clock offset: -6.732 ms

Remote clock offset: 0.531 ms

Below is generated by plot.py at 2019-07-12 12:35:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.42 Mbit/s

95th percentile per-packet one-way delay: 2.005 ms

Loss rate: 0.02%

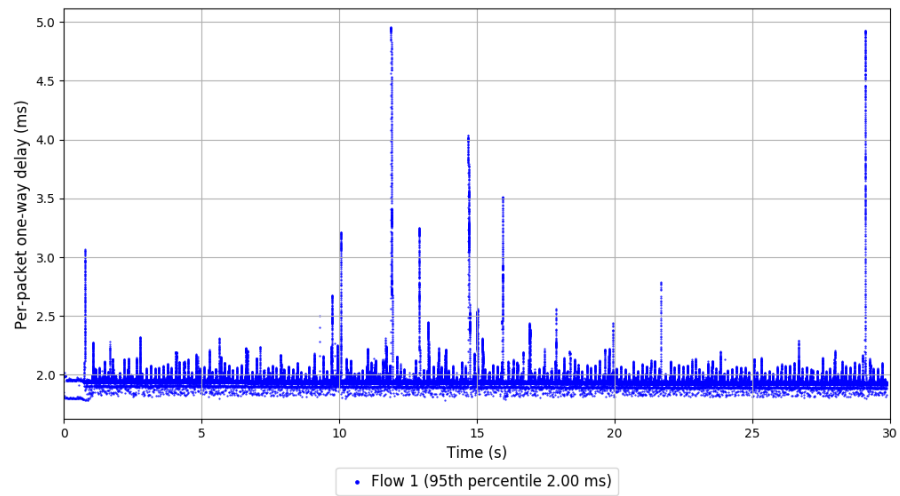
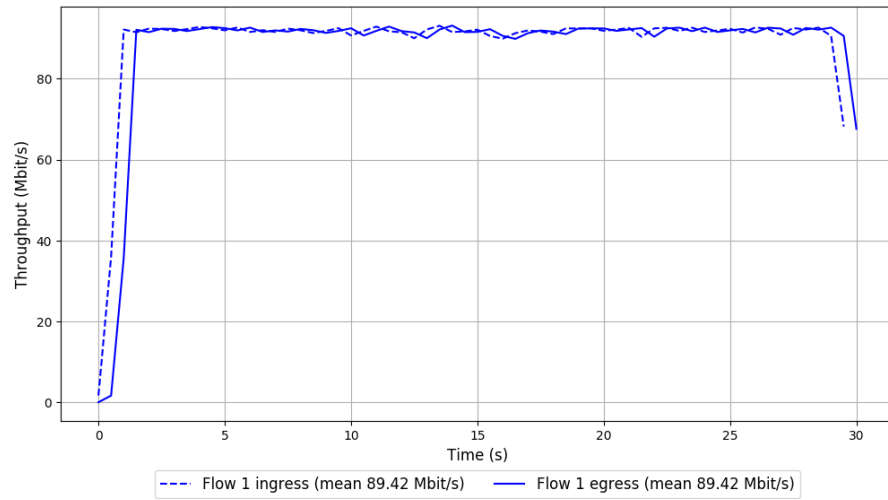
-- Flow 1:

Average throughput: 89.42 Mbit/s

95th percentile per-packet one-way delay: 2.005 ms

Loss rate: 0.02%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

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

End at: 2019-07-12 12:15:42

Local clock offset: -7.346 ms

Remote clock offset: 0.455 ms

Below is generated by plot.py at 2019-07-12 12:35:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.06 Mbit/s

95th percentile per-packet one-way delay: 1.753 ms

Loss rate: 0.02%

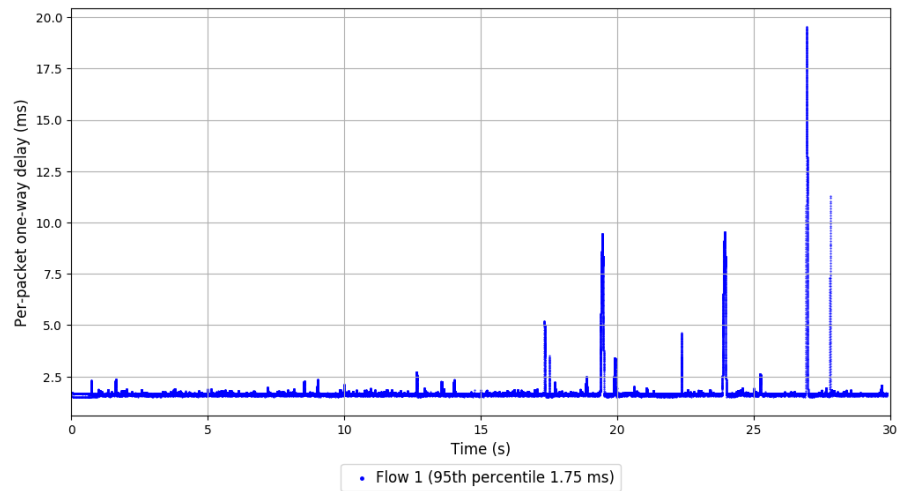
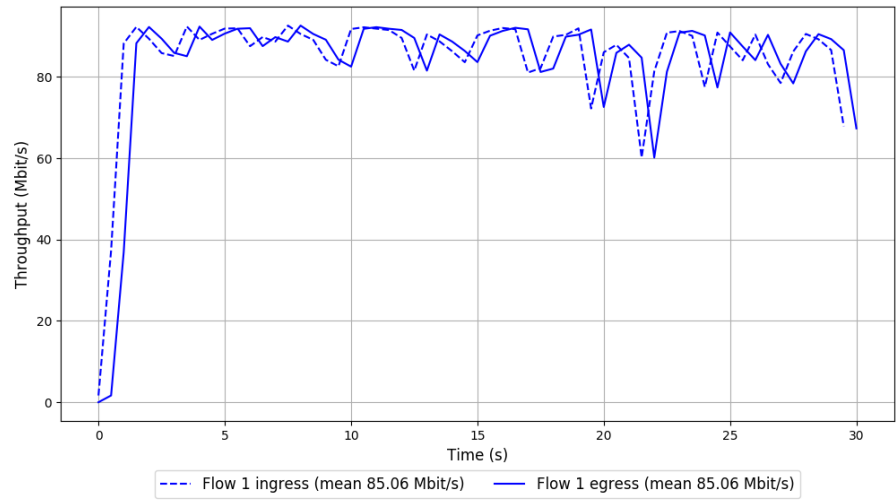
-- Flow 1:

Average throughput: 85.06 Mbit/s

95th percentile per-packet one-way delay: 1.753 ms

Loss rate: 0.02%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-07-12 10:03:08

End at: 2019-07-12 10:03:38

Local clock offset: -7.665 ms

Remote clock offset: -0.28 ms

Below is generated by plot.py at 2019-07-12 12:35:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 2.050 ms

Loss rate: 0.00%

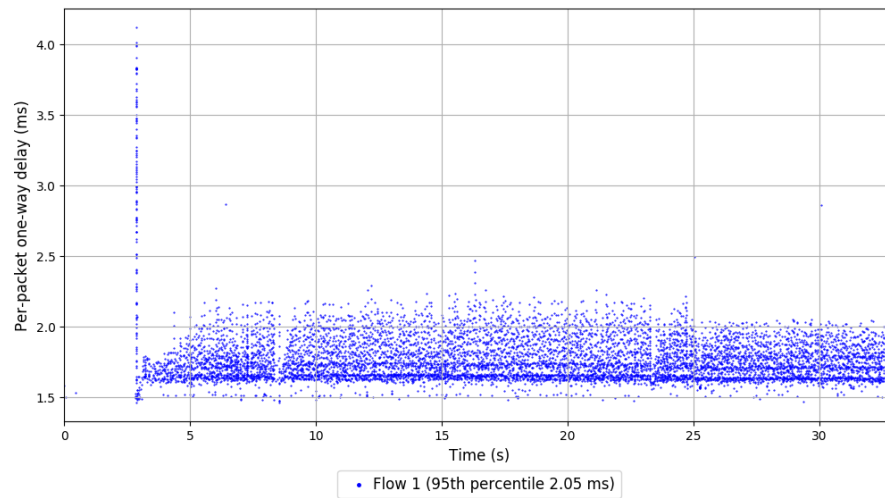
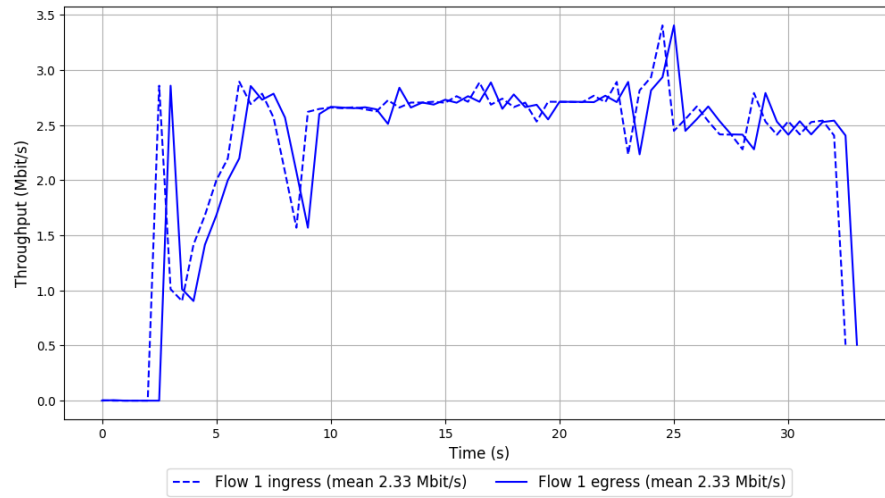
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 2.050 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-07-12 10:30:10

End at: 2019-07-12 10:30:40

Local clock offset: -7.52 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2019-07-12 12:35:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 2.128 ms

Loss rate: 0.08%

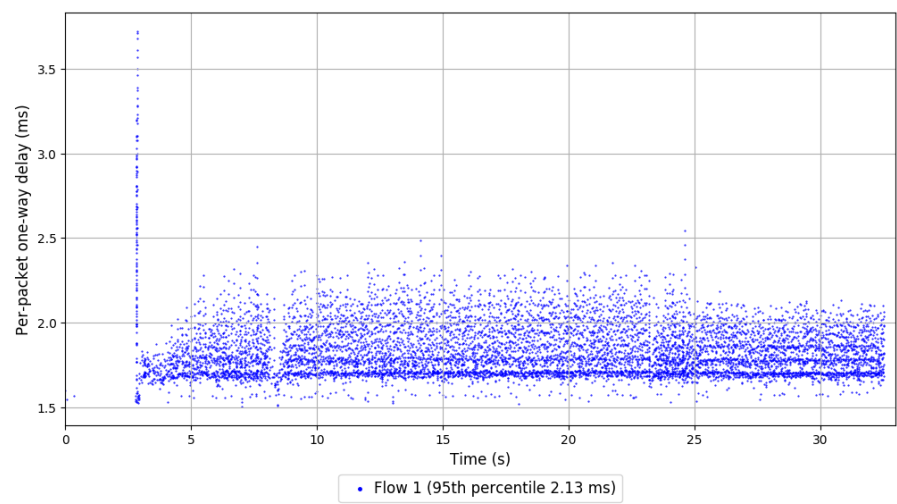
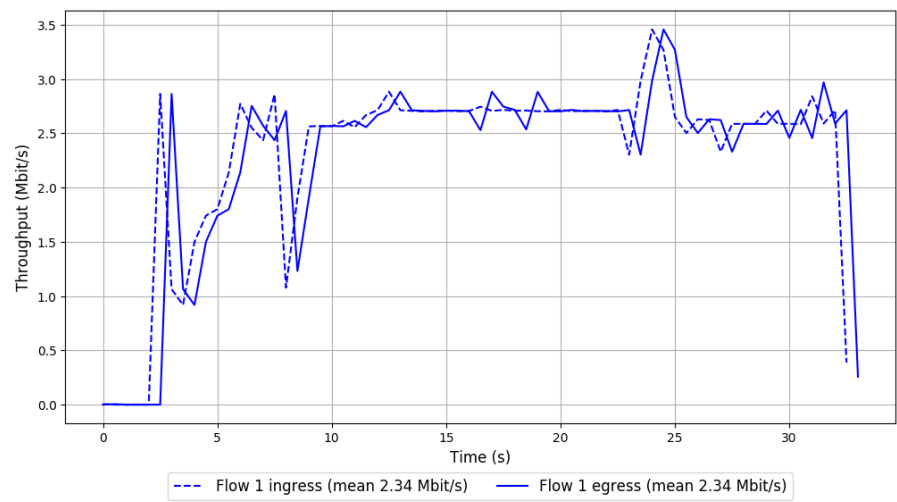
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 2.128 ms

Loss rate: 0.08%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-07-12 10:57:19

End at: 2019-07-12 10:57:49

Local clock offset: -7.622 ms

Remote clock offset: 0.356 ms

Below is generated by plot.py at 2019-07-12 12:35:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 2.146 ms

Loss rate: 0.08%

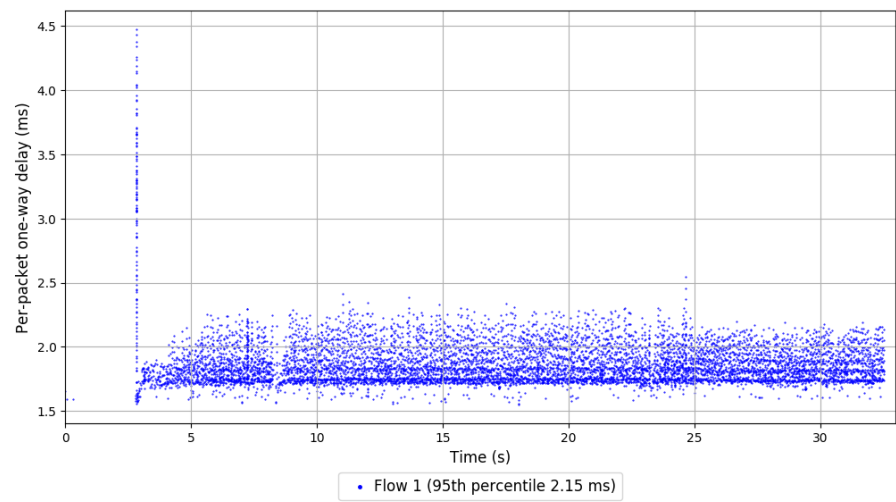
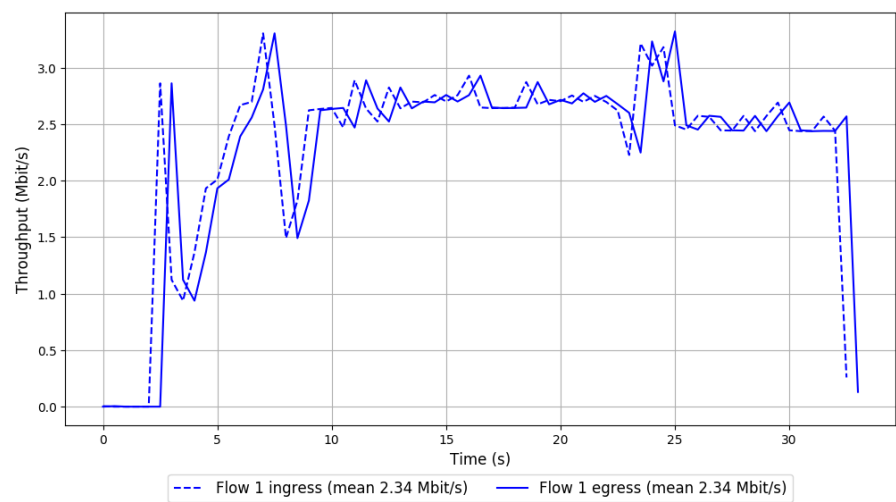
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 2.146 ms

Loss rate: 0.08%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-07-12 11:24:26

End at: 2019-07-12 11:24:56

Local clock offset: -7.477 ms

Remote clock offset: 0.683 ms

Below is generated by plot.py at 2019-07-12 12:35:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 2.058 ms

Loss rate: 0.00%

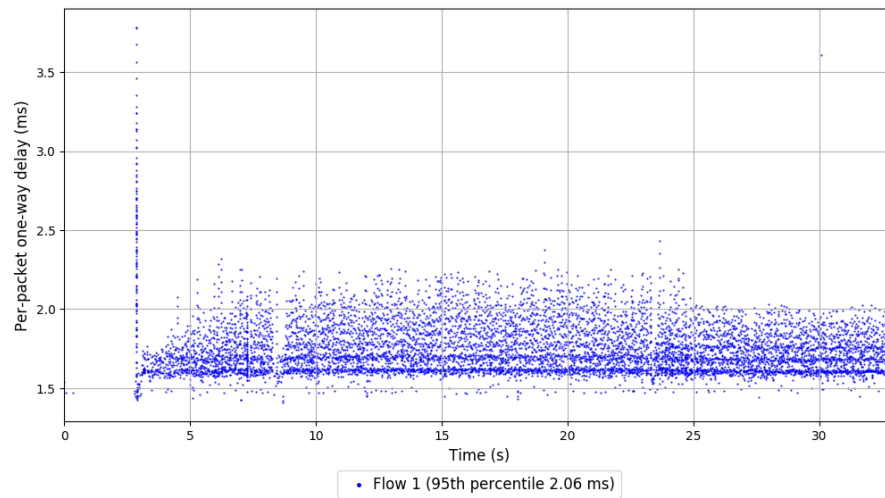
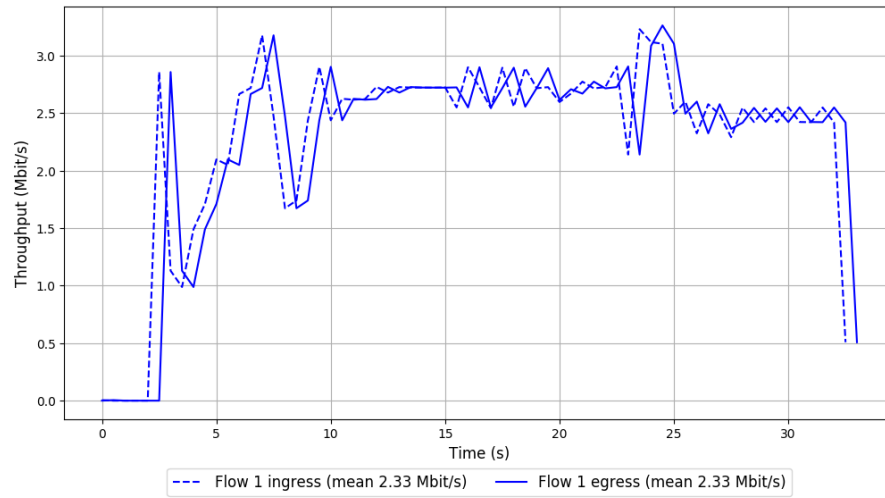
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 2.058 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-07-12 11:51:32

End at: 2019-07-12 11:52:02

Local clock offset: -5.658 ms

Remote clock offset: 0.644 ms

Below is generated by plot.py at 2019-07-12 12:35:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 2.812 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 2.812 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

