

Pantheon Report

Generated at 2019-03-19 10:50:11 (UTC).

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

Repeated the test of 21 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.

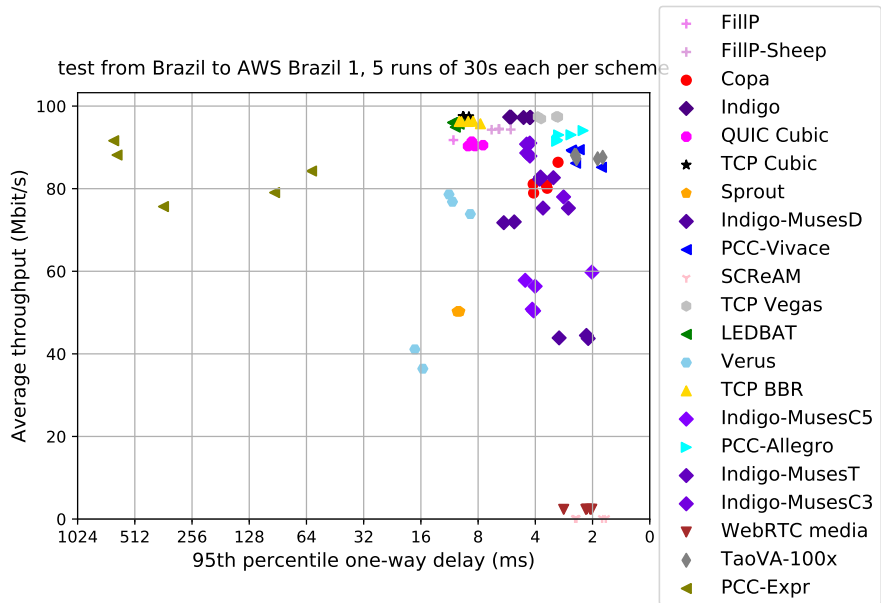
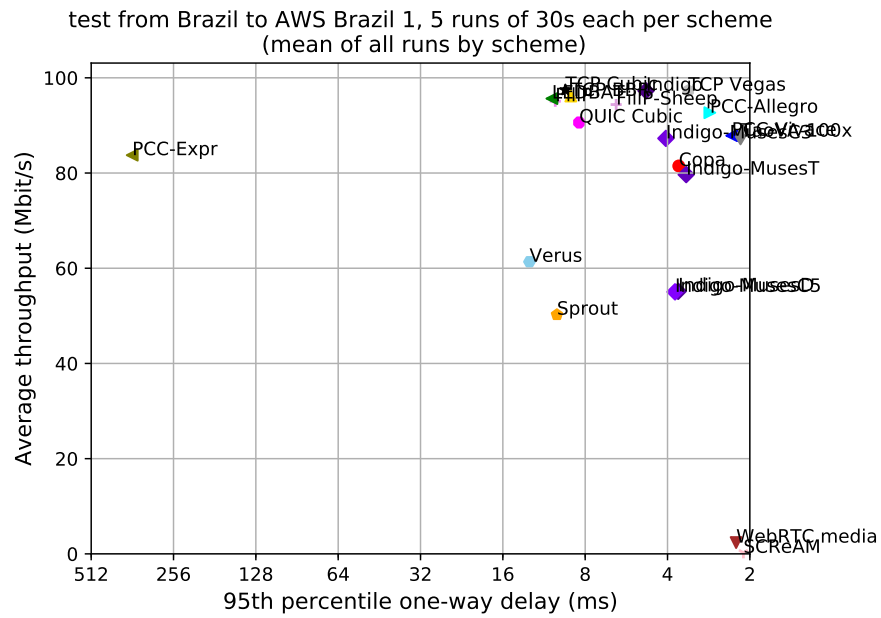
System info:

```
Linux 4.15.0-1033-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 @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd9c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	96.18	9.03	0.08
Copa	5	81.48	3.64	0.01
TCP Cubic	5	97.45	9.45	0.06
FillP	5	95.08	10.29	0.02
FillP-Sheep	5	94.38	6.16	0.02
Indigo	5	97.28	4.79	0.02
Indigo-MusesC3	5	87.27	4.06	0.02
Indigo-MusesC5	5	55.04	3.76	0.01
Indigo-MusesD	5	55.16	3.66	0.01
Indigo-MusesT	5	79.67	3.42	0.02
LEDBAT	5	95.64	10.59	0.08
PCC-Allegro	5	92.67	2.80	0.02
PCC-Expr	5	83.75	362.54	3.11
QUIC Cubic	5	90.61	8.41	0.02
SCReAM	5	0.22	2.11	0.03
Sprout	5	50.24	10.15	0.04
TaoVA-100x	5	87.64	2.16	0.02
TCP Vegas	5	97.31	3.36	0.02
Verus	5	61.36	12.79	0.03
PCC-Vivace	5	87.85	2.33	0.02
WebRTC media	5	2.37	2.24	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-03-19 08:54:09

End at: 2019-03-19 08:54:39

Local clock offset: -4.794 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2019-03-19 10:37:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 9.802 ms

Loss rate: 0.11%

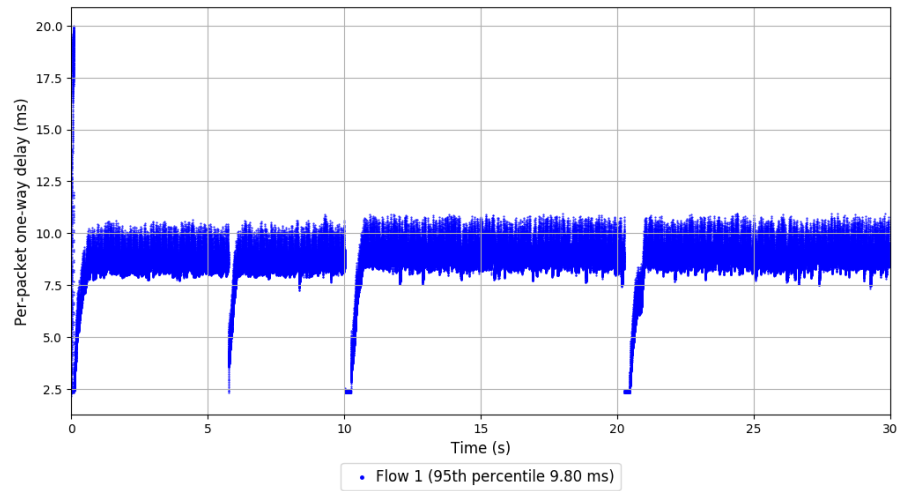
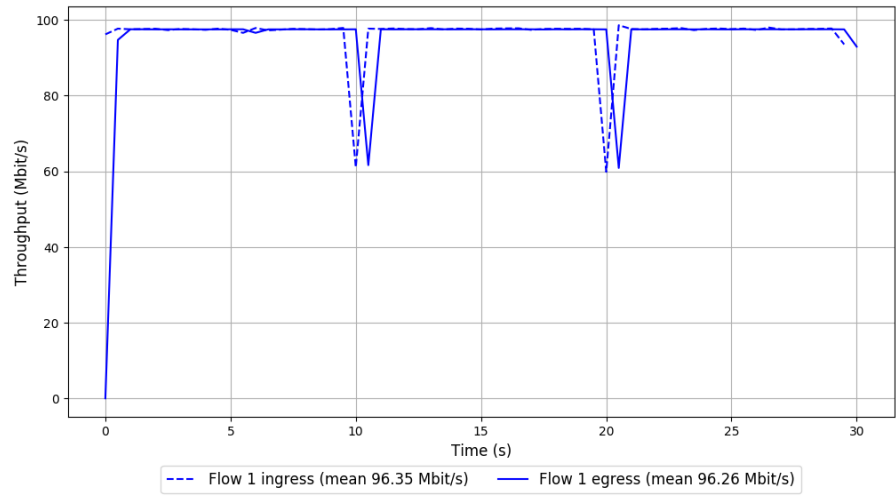
-- Flow 1:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 9.802 ms

Loss rate: 0.11%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-03-19 09:17:52

End at: 2019-03-19 09:18:22

Local clock offset: -5.177 ms

Remote clock offset: 0.157 ms

Below is generated by plot.py at 2019-03-19 10:37:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.29 Mbit/s

95th percentile per-packet one-way delay: 10.052 ms

Loss rate: 0.13%

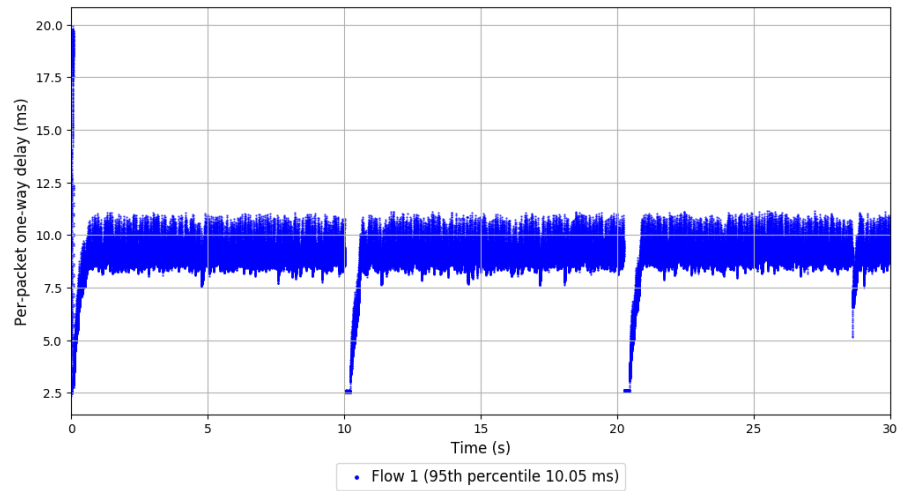
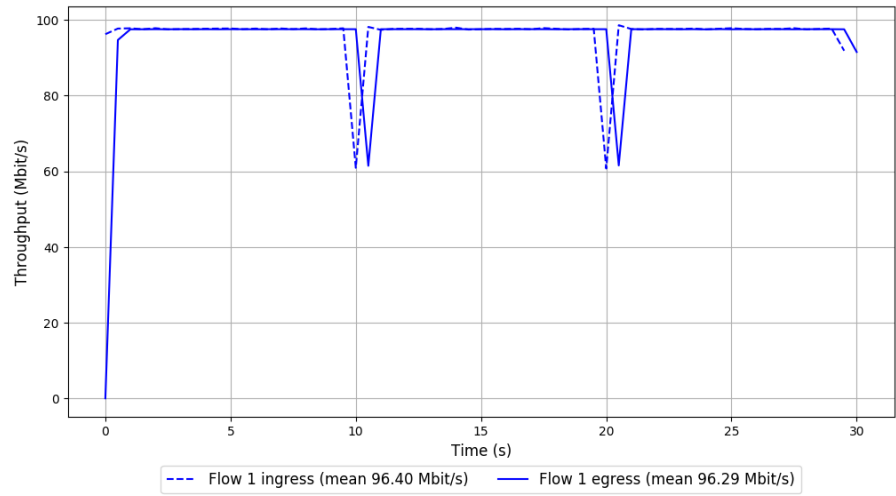
-- Flow 1:

Average throughput: 96.29 Mbit/s

95th percentile per-packet one-way delay: 10.052 ms

Loss rate: 0.13%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-03-19 09:41:36

End at: 2019-03-19 09:42:06

Local clock offset: -7.723 ms

Remote clock offset: 0.265 ms

Below is generated by plot.py at 2019-03-19 10:37:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.73 Mbit/s

95th percentile per-packet one-way delay: 7.780 ms

Loss rate: 0.03%

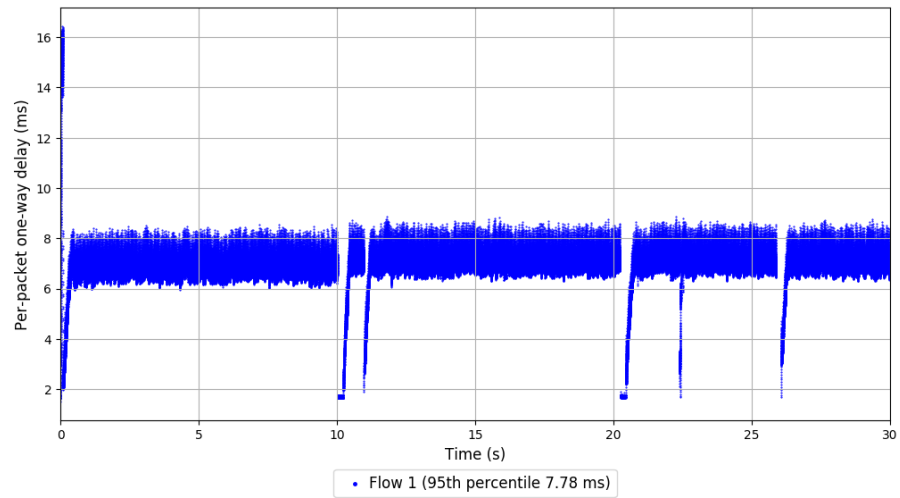
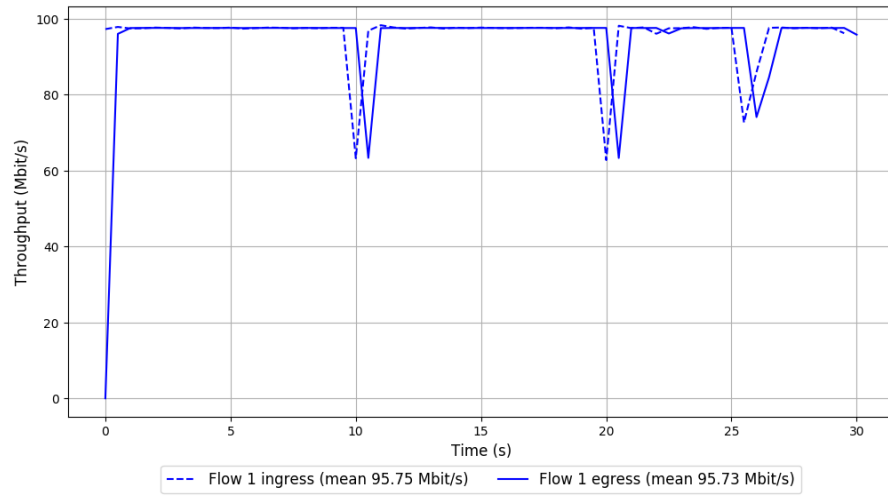
-- Flow 1:

Average throughput: 95.73 Mbit/s

95th percentile per-packet one-way delay: 7.780 ms

Loss rate: 0.03%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-03-19 10:05:19

End at: 2019-03-19 10:05:49

Local clock offset: -7.576 ms

Remote clock offset: 0.429 ms

Below is generated by plot.py at 2019-03-19 10:37:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.33 Mbit/s

95th percentile per-packet one-way delay: 8.495 ms

Loss rate: 0.03%

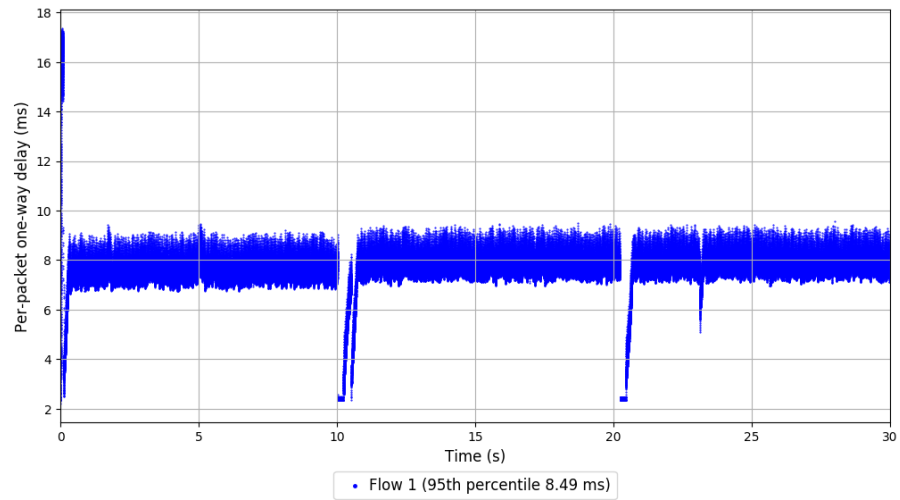
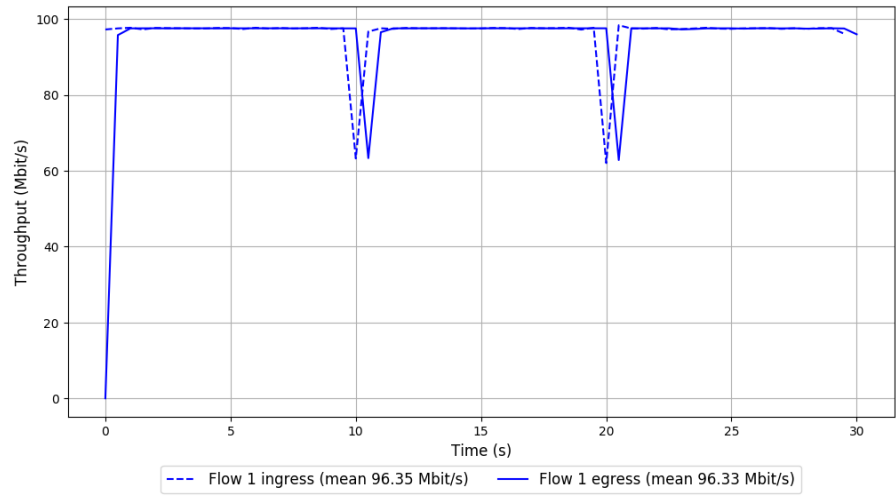
-- Flow 1:

Average throughput: 96.33 Mbit/s

95th percentile per-packet one-way delay: 8.495 ms

Loss rate: 0.03%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

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

End at: 2019-03-19 10:29:33

Local clock offset: -6.766 ms

Remote clock offset: 0.605 ms

Below is generated by plot.py at 2019-03-19 10:37:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.28 Mbit/s

95th percentile per-packet one-way delay: 9.021 ms

Loss rate: 0.11%

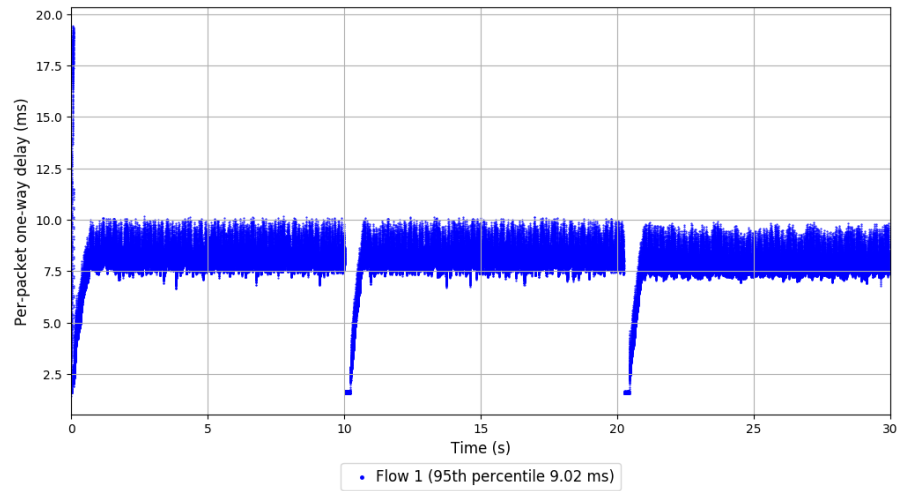
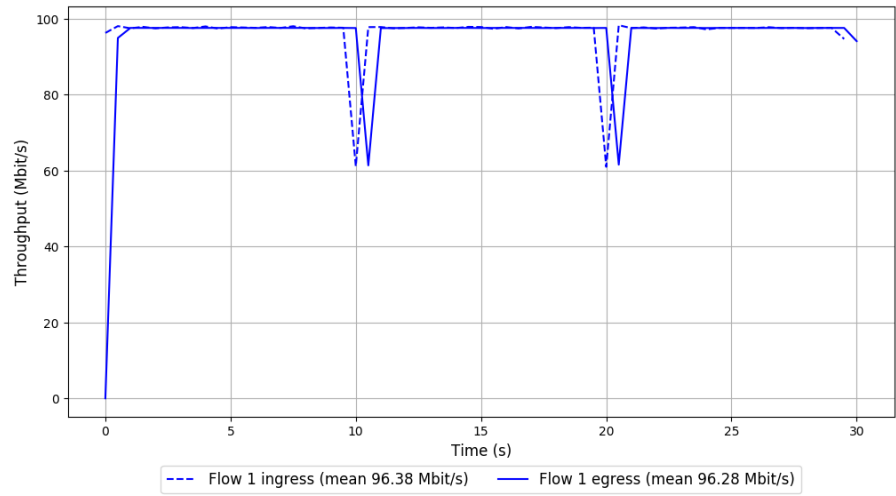
-- Flow 1:

Average throughput: 96.28 Mbit/s

95th percentile per-packet one-way delay: 9.021 ms

Loss rate: 0.11%

Run 5: Report of TCP BBR — Data Link

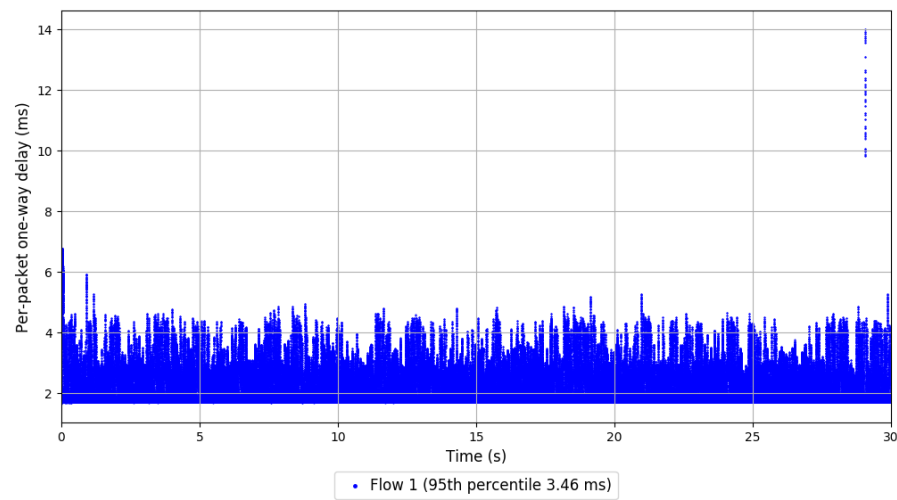
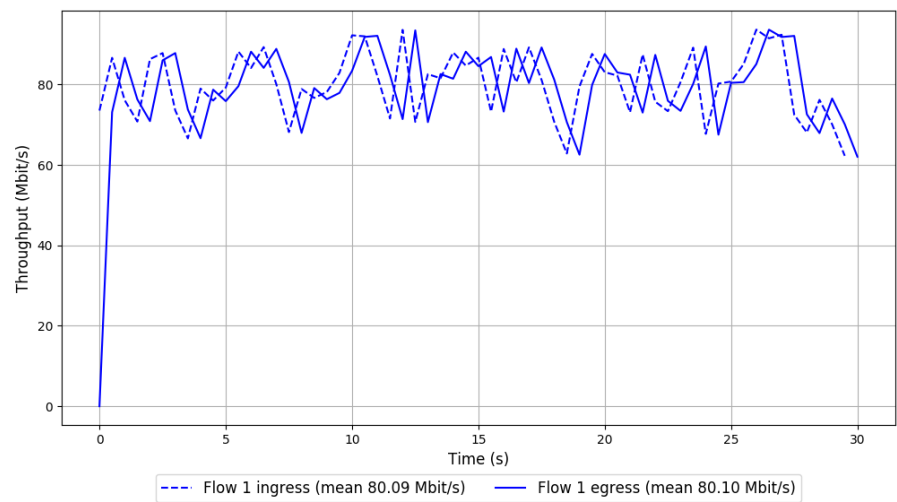


Run 1: Statistics of Copa

Start at: 2019-03-19 08:55:17
End at: 2019-03-19 08:55:47
Local clock offset: -5.522 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2019-03-19 10:37:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 80.10 Mbit/s
95th percentile per-packet one-way delay: 3.465 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 80.10 Mbit/s
95th percentile per-packet one-way delay: 3.465 ms
Loss rate: 0.01%

Run 1: Report of Copa — Data Link

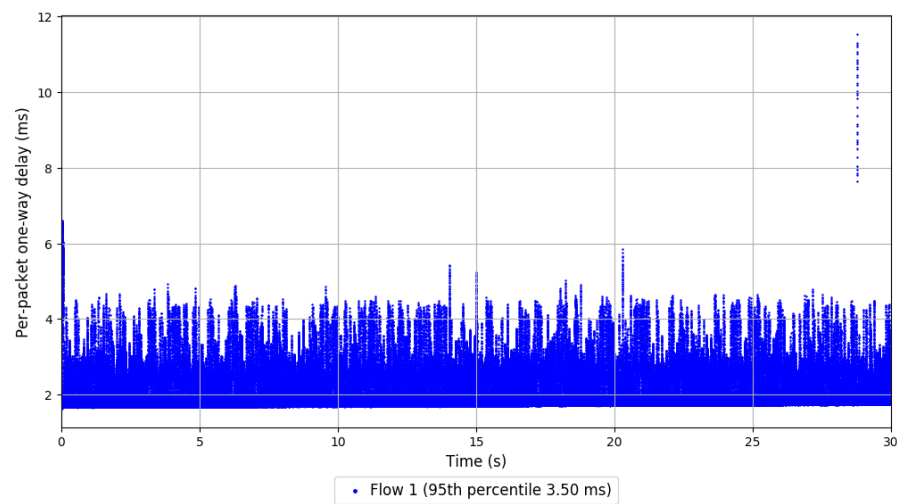
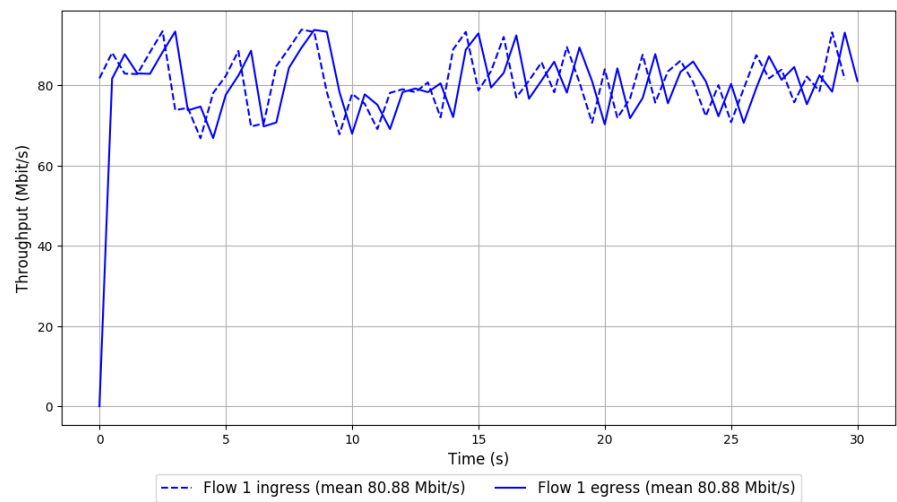


Run 2: Statistics of Copa

Start at: 2019-03-19 09:19:01
End at: 2019-03-19 09:19:31
Local clock offset: -6.121 ms
Remote clock offset: 0.22 ms

Below is generated by plot.py at 2019-03-19 10:37:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 80.88 Mbit/s
95th percentile per-packet one-way delay: 3.500 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 80.88 Mbit/s
95th percentile per-packet one-way delay: 3.500 ms
Loss rate: 0.02%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-03-19 09:42:44

End at: 2019-03-19 09:43:14

Local clock offset: -7.705 ms

Remote clock offset: 0.273 ms

Below is generated by plot.py at 2019-03-19 10:38:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.39 Mbit/s

95th percentile per-packet one-way delay: 3.038 ms

Loss rate: 0.01%

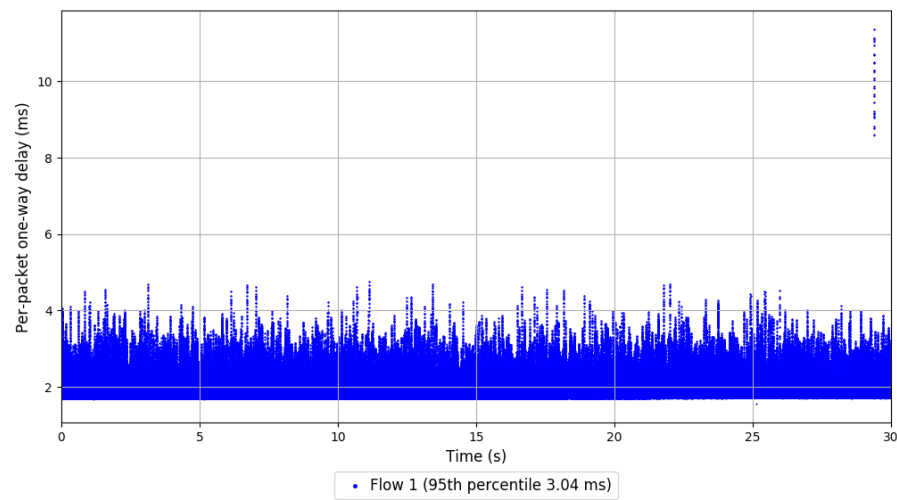
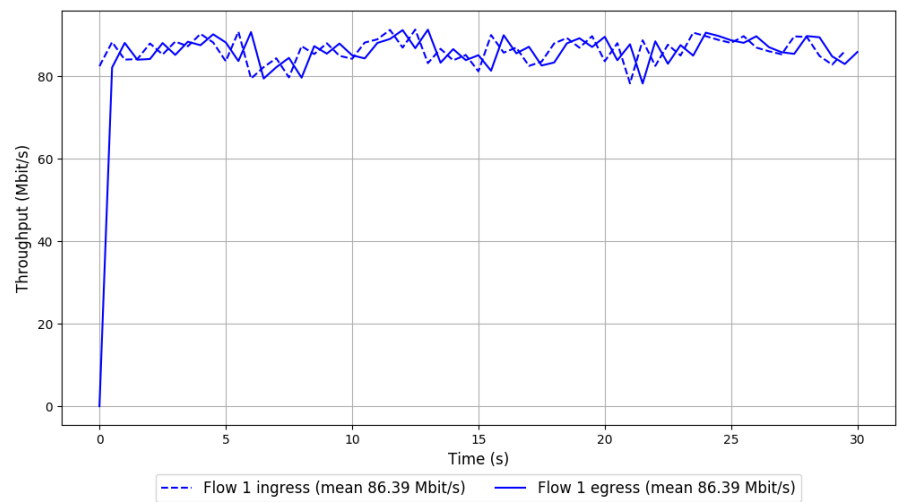
-- Flow 1:

Average throughput: 86.39 Mbit/s

95th percentile per-packet one-way delay: 3.038 ms

Loss rate: 0.01%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-03-19 10:06:27

End at: 2019-03-19 10:06:57

Local clock offset: -7.608 ms

Remote clock offset: 0.488 ms

Below is generated by plot.py at 2019-03-19 10:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.95 Mbit/s

95th percentile per-packet one-way delay: 4.083 ms

Loss rate: 0.02%

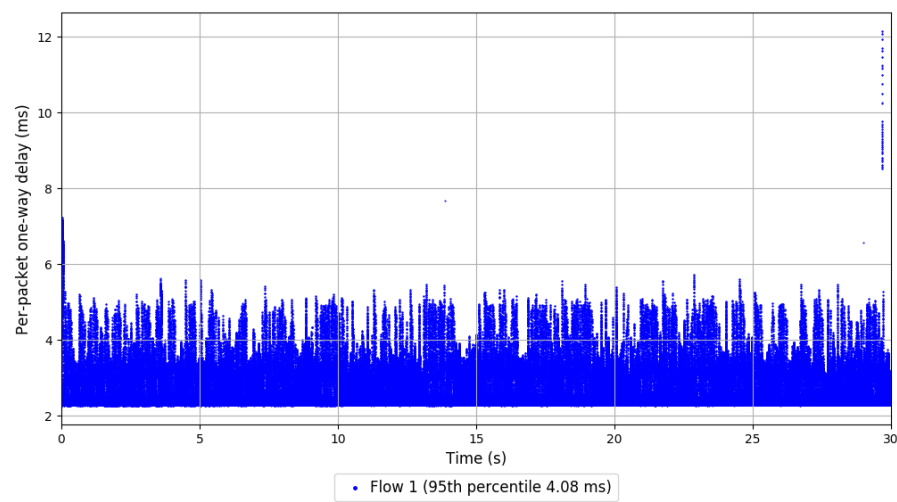
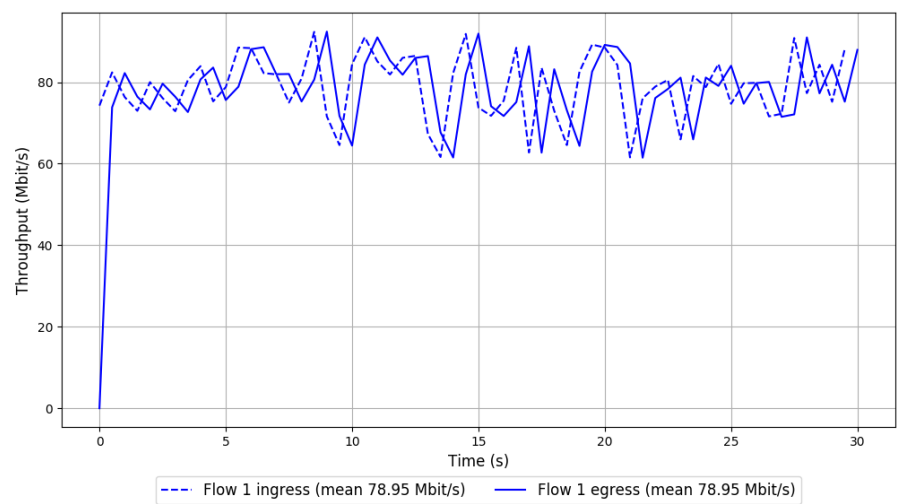
-- Flow 1:

Average throughput: 78.95 Mbit/s

95th percentile per-packet one-way delay: 4.083 ms

Loss rate: 0.02%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-03-19 10:30:11

End at: 2019-03-19 10:30:41

Local clock offset: -5.95 ms

Remote clock offset: 0.529 ms

Below is generated by plot.py at 2019-03-19 10:39:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.10 Mbit/s

95th percentile per-packet one-way delay: 4.106 ms

Loss rate: 0.01%

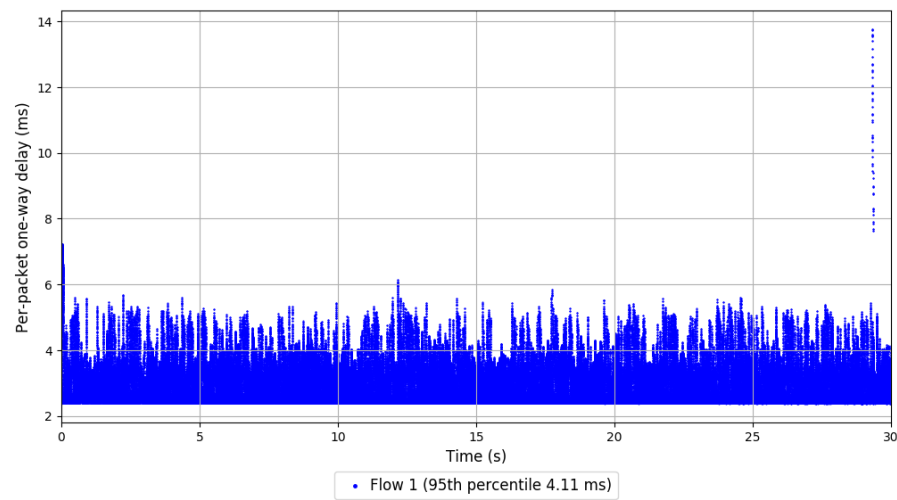
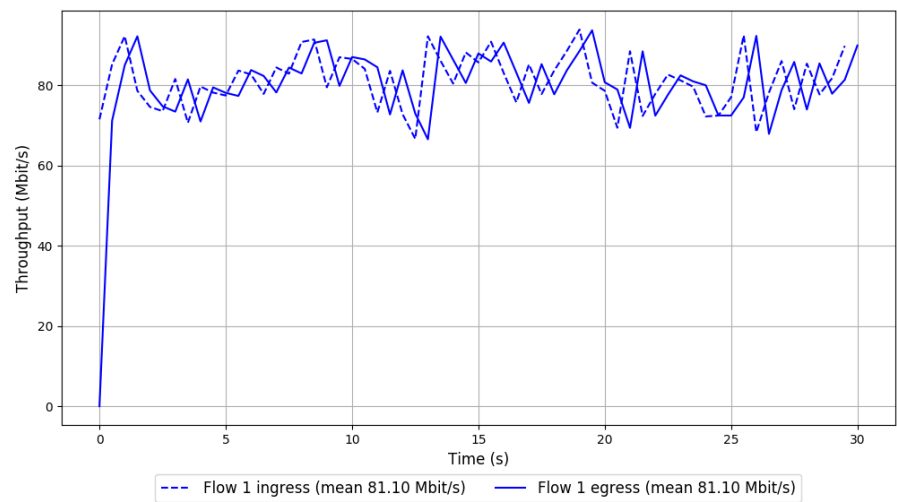
-- Flow 1:

Average throughput: 81.10 Mbit/s

95th percentile per-packet one-way delay: 4.106 ms

Loss rate: 0.01%

Run 5: Report of Copa — Data Link

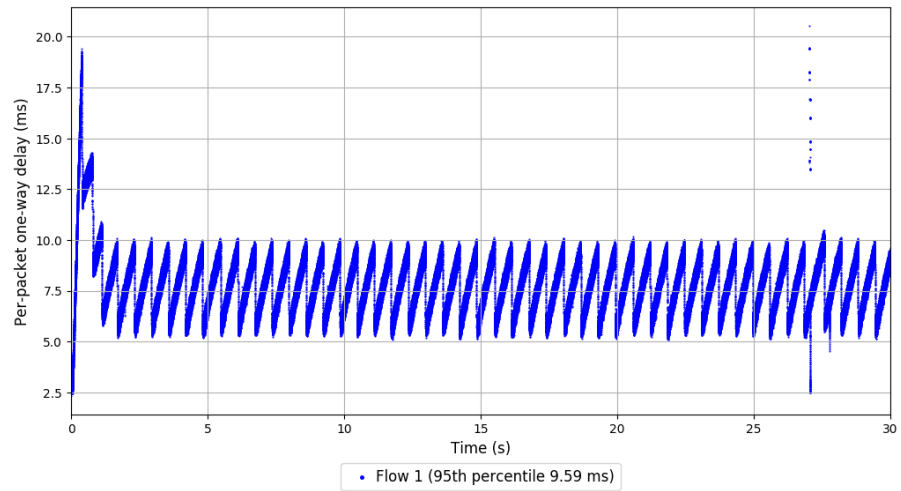
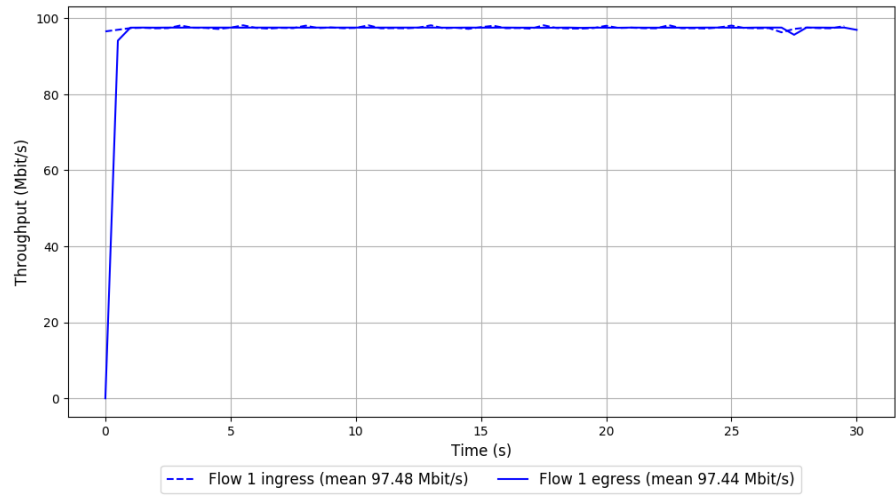


Run 1: Statistics of TCP Cubic

Start at: 2019-03-19 08:53:00
End at: 2019-03-19 08:53:30
Local clock offset: -4.723 ms
Remote clock offset: -0.082 ms

Below is generated by plot.py at 2019-03-19 10:39:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.44 Mbit/s
95th percentile per-packet one-way delay: 9.587 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 97.44 Mbit/s
95th percentile per-packet one-way delay: 9.587 ms
Loss rate: 0.06%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-03-19 09:16:44

End at: 2019-03-19 09:17:14

Local clock offset: -4.992 ms

Remote clock offset: 0.186 ms

Below is generated by plot.py at 2019-03-19 10:39:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 9.613 ms

Loss rate: 0.06%

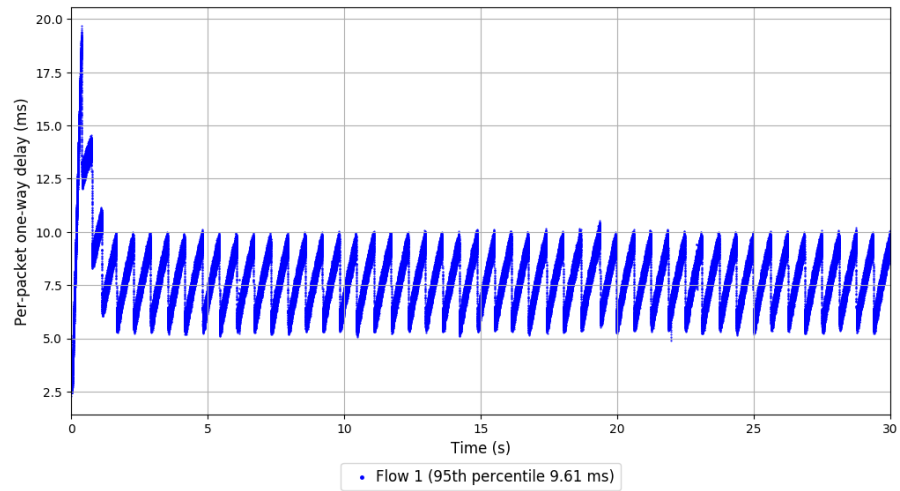
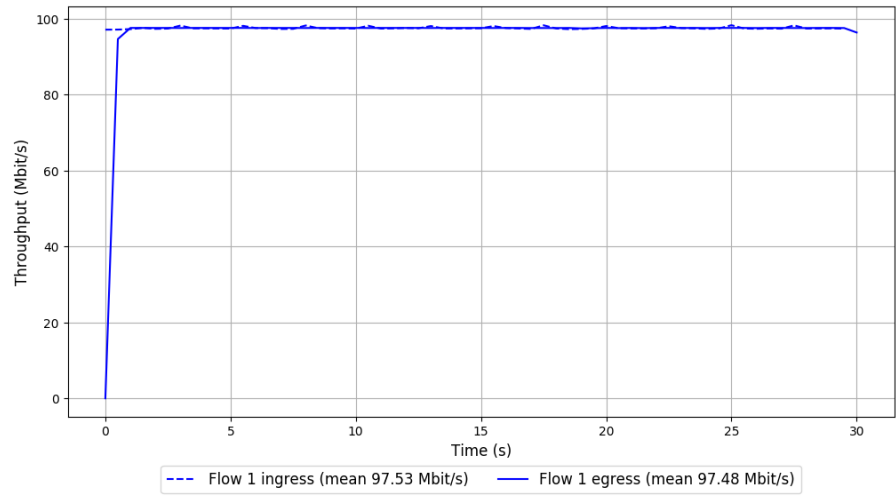
-- Flow 1:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 9.613 ms

Loss rate: 0.06%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-03-19 09:40:28

End at: 2019-03-19 09:40:58

Local clock offset: -6.894 ms

Remote clock offset: 0.288 ms

Below is generated by plot.py at 2019-03-19 10:39:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.44 Mbit/s

95th percentile per-packet one-way delay: 9.545 ms

Loss rate: 0.06%

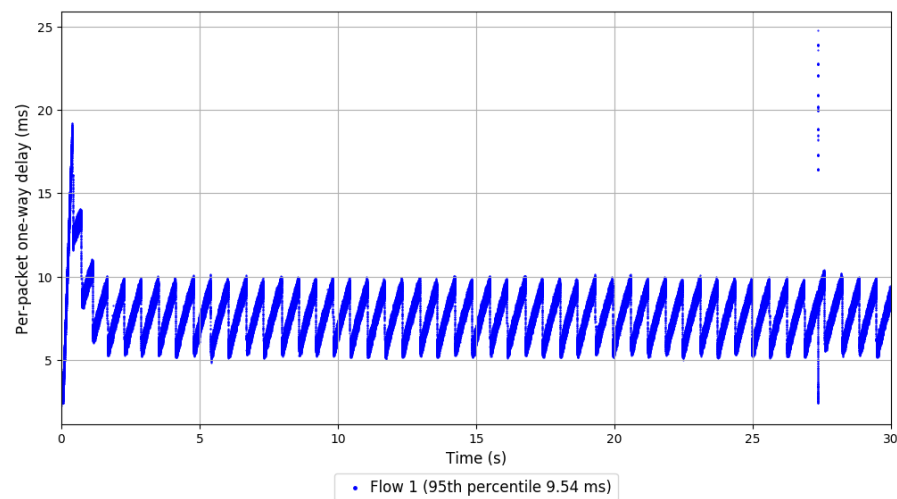
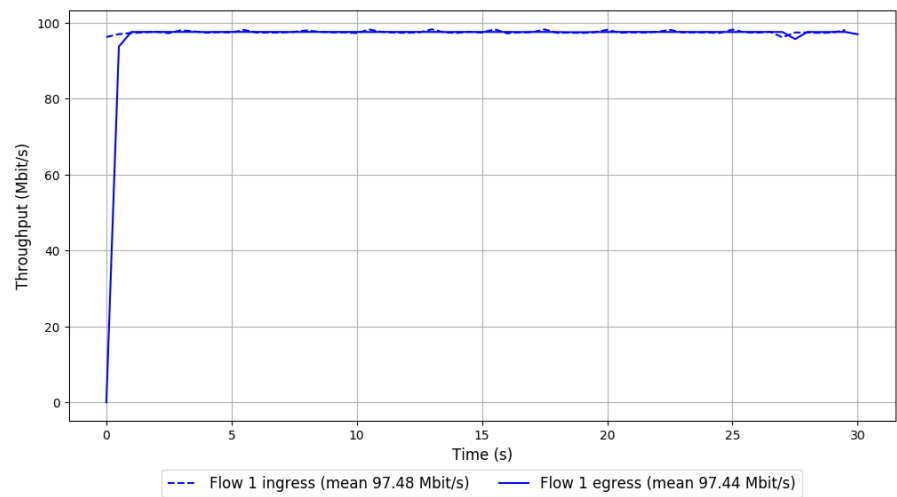
-- Flow 1:

Average throughput: 97.44 Mbit/s

95th percentile per-packet one-way delay: 9.545 ms

Loss rate: 0.06%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-03-19 10:04:11

End at: 2019-03-19 10:04:41

Local clock offset: -8.24 ms

Remote clock offset: 0.359 ms

Below is generated by plot.py at 2019-03-19 10:39:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.45 Mbit/s

95th percentile per-packet one-way delay: 8.943 ms

Loss rate: 0.05%

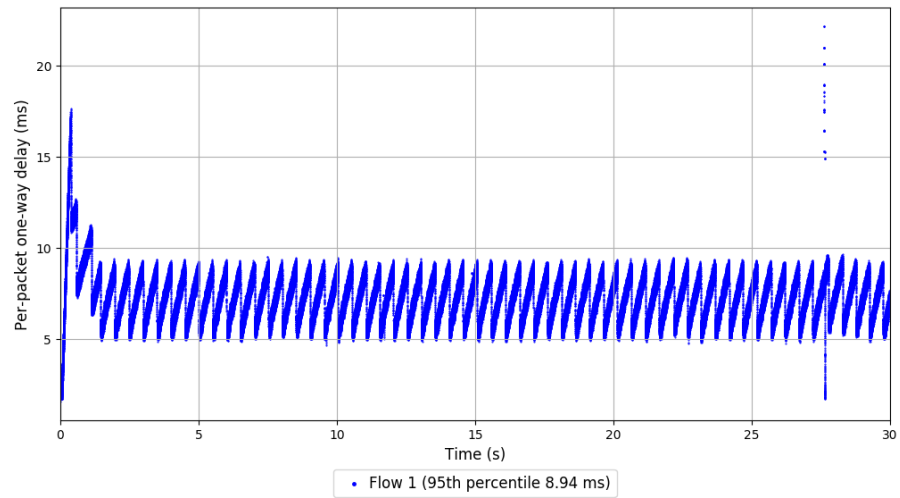
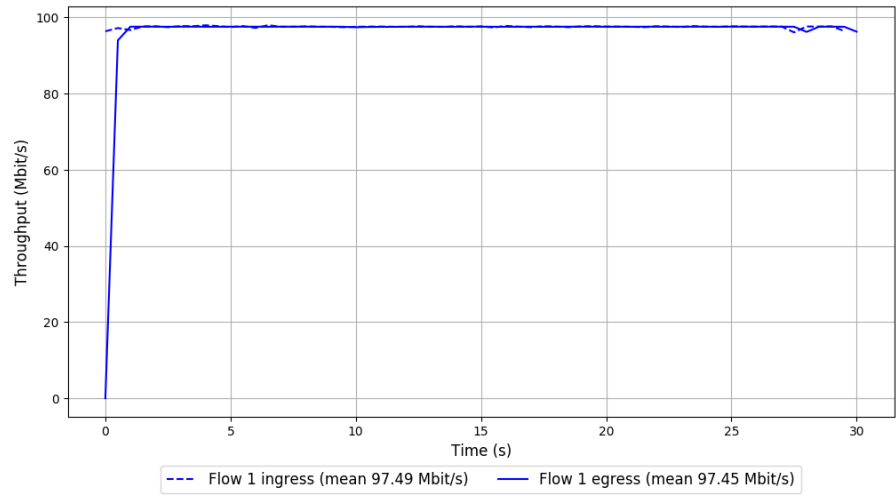
-- Flow 1:

Average throughput: 97.45 Mbit/s

95th percentile per-packet one-way delay: 8.943 ms

Loss rate: 0.05%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-03-19 10:27:55

End at: 2019-03-19 10:28:25

Local clock offset: -6.115 ms

Remote clock offset: 0.603 ms

Below is generated by plot.py at 2019-03-19 10:39:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 9.569 ms

Loss rate: 0.05%

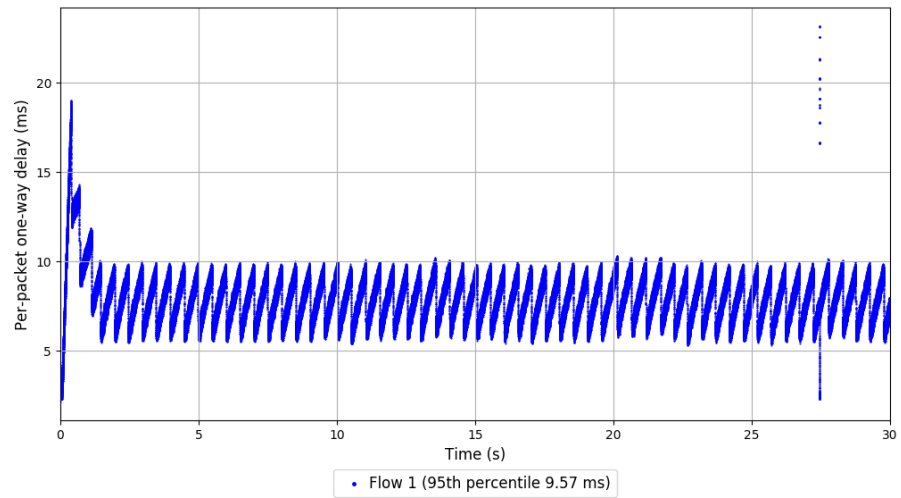
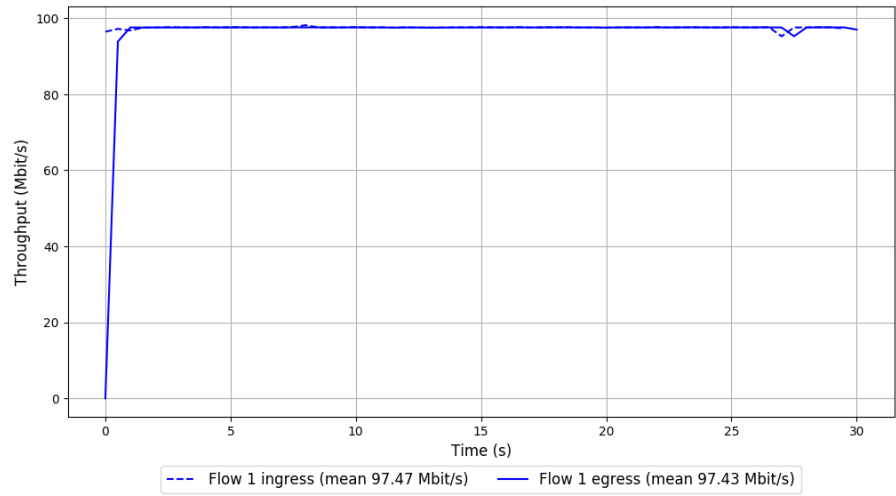
-- Flow 1:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 9.569 ms

Loss rate: 0.05%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-03-19 08:51:53

End at: 2019-03-19 08:52:23

Local clock offset: -4.703 ms

Remote clock offset: -0.13 ms

Below is generated by plot.py at 2019-03-19 10:39:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.77 Mbit/s

95th percentile per-packet one-way delay: 10.786 ms

Loss rate: 0.00%

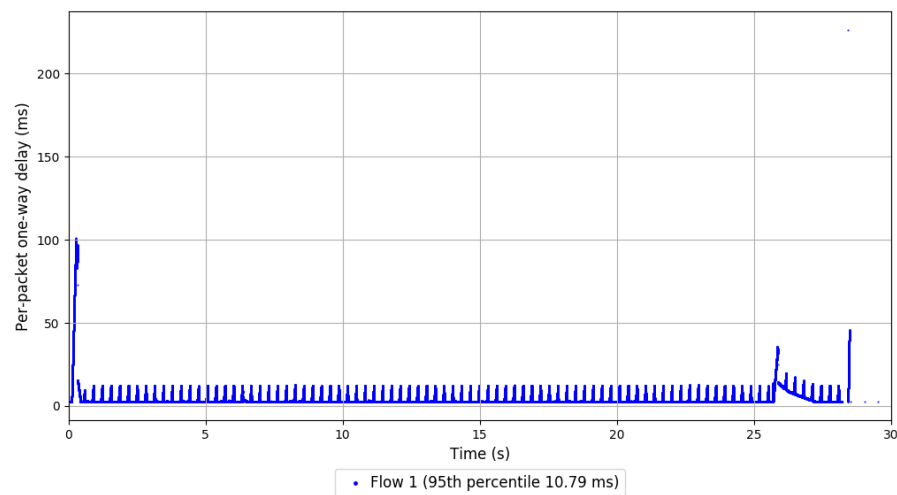
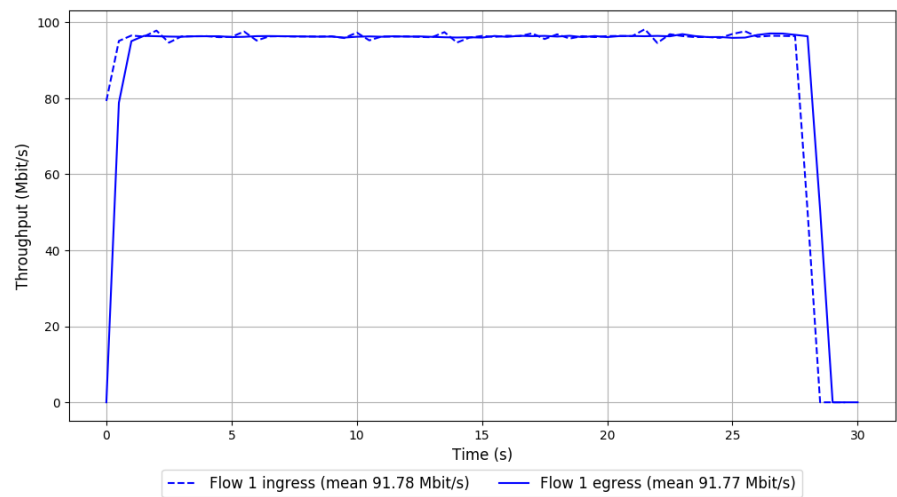
-- Flow 1:

Average throughput: 91.77 Mbit/s

95th percentile per-packet one-way delay: 10.786 ms

Loss rate: 0.00%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-03-19 09:15:37

End at: 2019-03-19 09:16:07

Local clock offset: -5.714 ms

Remote clock offset: 0.115 ms

Below is generated by plot.py at 2019-03-19 10:39:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.95 Mbit/s

95th percentile per-packet one-way delay: 10.229 ms

Loss rate: 0.04%

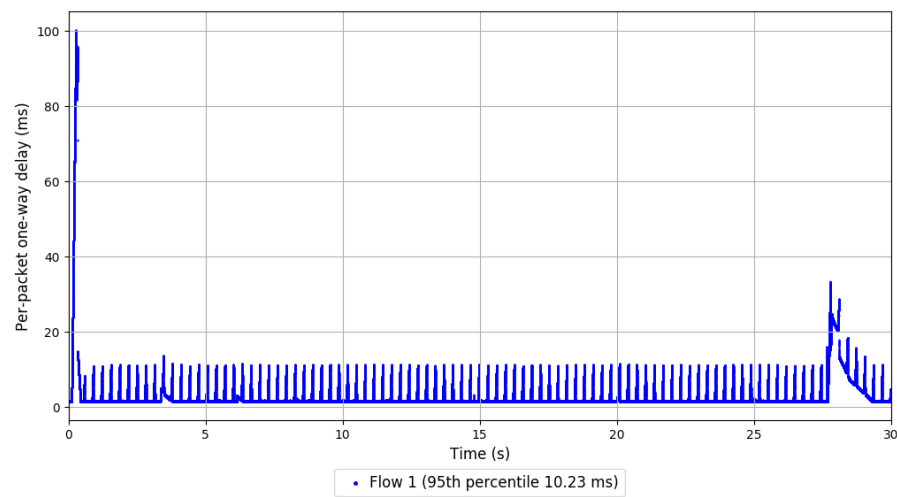
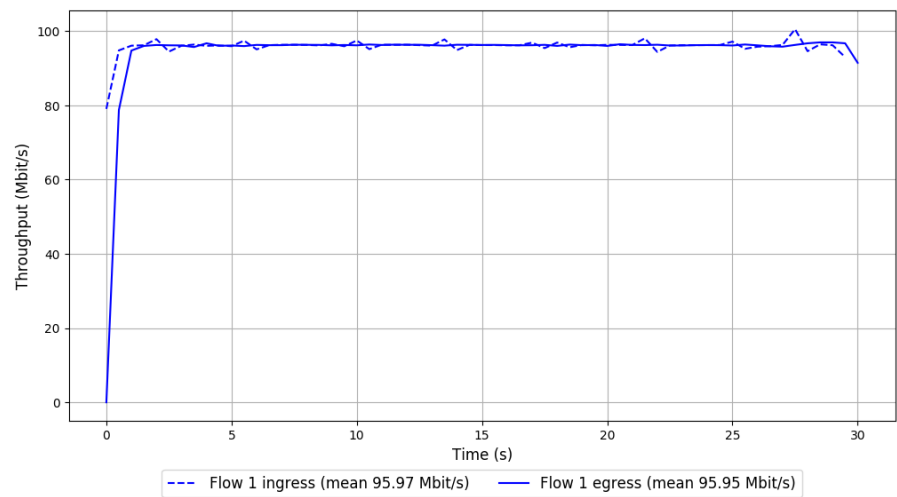
-- Flow 1:

Average throughput: 95.95 Mbit/s

95th percentile per-packet one-way delay: 10.229 ms

Loss rate: 0.04%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-03-19 09:39:20

End at: 2019-03-19 09:39:50

Local clock offset: -7.684 ms

Remote clock offset: 0.343 ms

Below is generated by plot.py at 2019-03-19 10:39:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.76 Mbit/s

95th percentile per-packet one-way delay: 10.033 ms

Loss rate: 0.02%

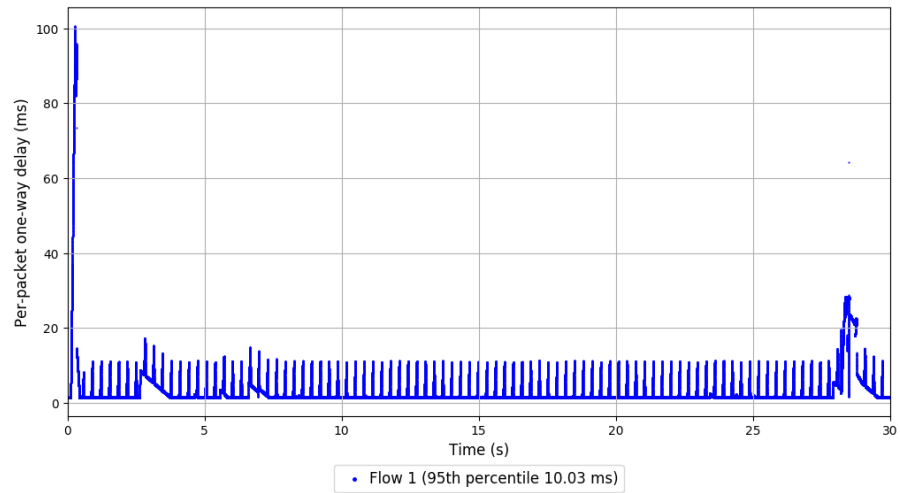
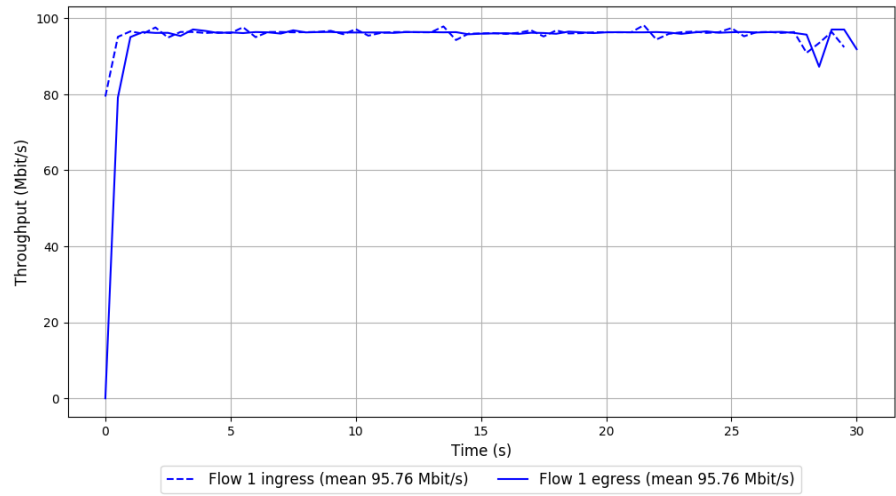
-- Flow 1:

Average throughput: 95.76 Mbit/s

95th percentile per-packet one-way delay: 10.033 ms

Loss rate: 0.02%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-03-19 10:03:04

End at: 2019-03-19 10:03:34

Local clock offset: -8.276 ms

Remote clock offset: 0.469 ms

Below is generated by plot.py at 2019-03-19 10:39:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.95 Mbit/s

95th percentile per-packet one-way delay: 9.781 ms

Loss rate: 0.04%

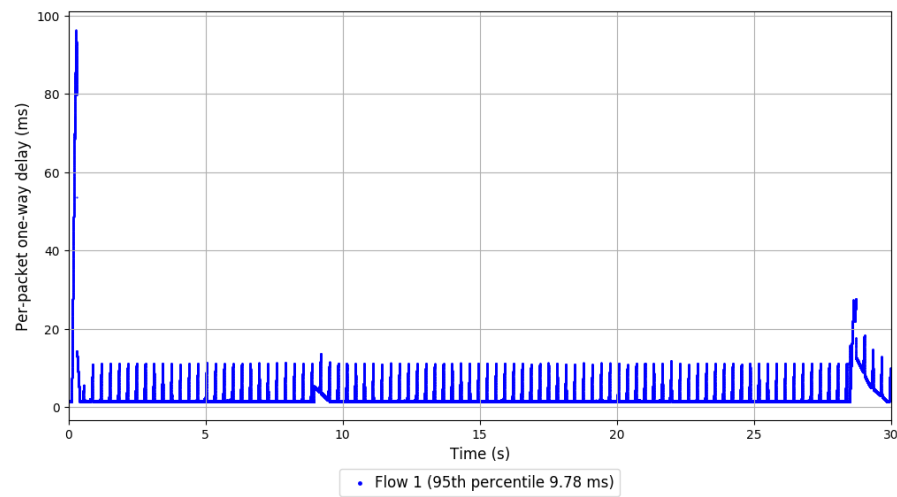
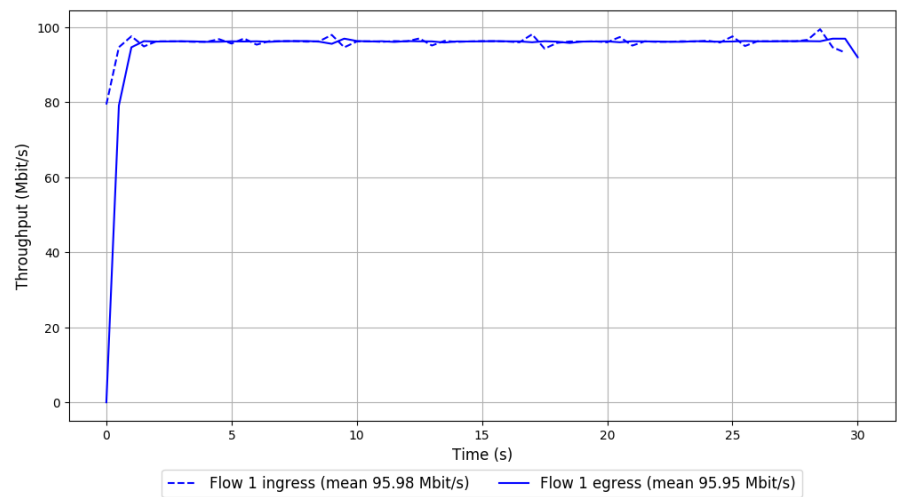
-- Flow 1:

Average throughput: 95.95 Mbit/s

95th percentile per-packet one-way delay: 9.781 ms

Loss rate: 0.04%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-03-19 10:26:48

End at: 2019-03-19 10:27:18

Local clock offset: -6.186 ms

Remote clock offset: 0.579 ms

Below is generated by plot.py at 2019-03-19 10:40:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.95 Mbit/s

95th percentile per-packet one-way delay: 10.627 ms

Loss rate: 0.02%

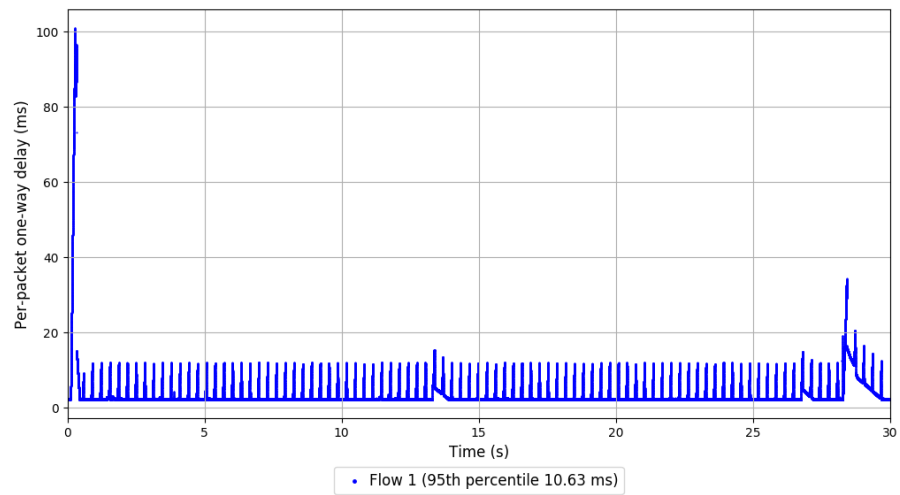
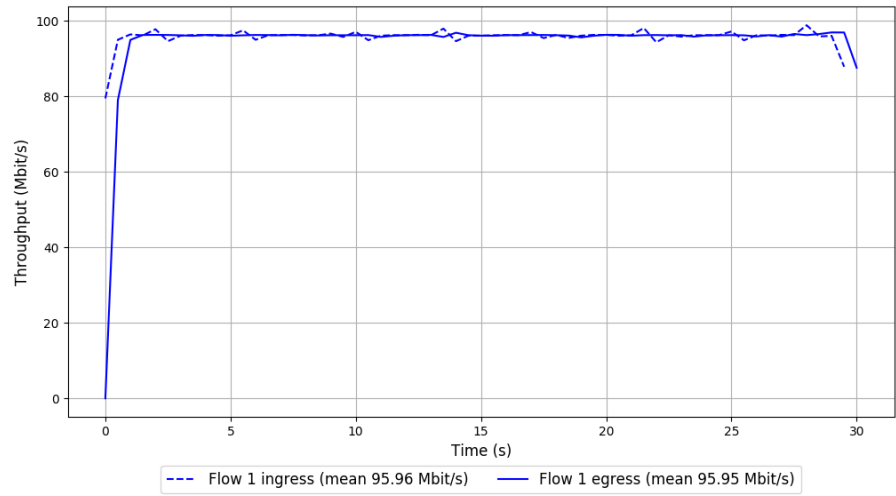
-- Flow 1:

Average throughput: 95.95 Mbit/s

95th percentile per-packet one-way delay: 10.627 ms

Loss rate: 0.02%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-03-19 08:49:38

End at: 2019-03-19 08:50:08

Local clock offset: -4.626 ms

Remote clock offset: -0.173 ms

Below is generated by plot.py at 2019-03-19 10:40:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.27 Mbit/s

95th percentile per-packet one-way delay: 6.792 ms

Loss rate: 0.03%

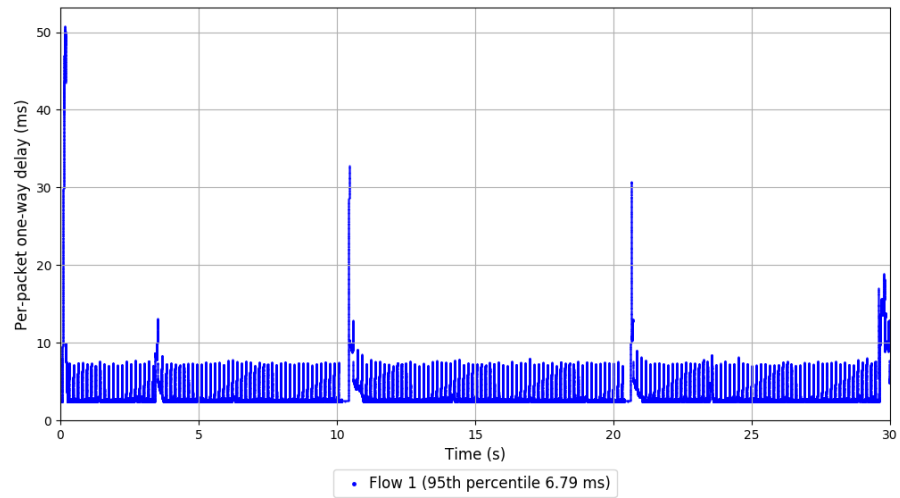
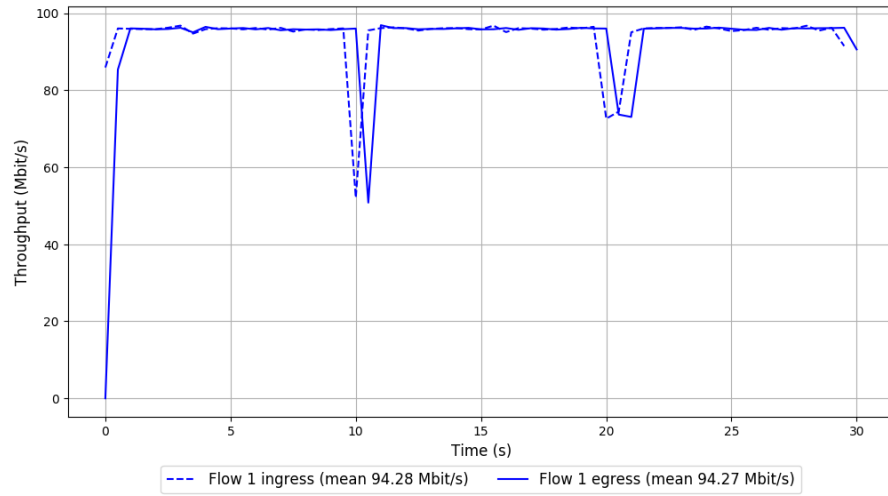
-- Flow 1:

Average throughput: 94.27 Mbit/s

95th percentile per-packet one-way delay: 6.792 ms

Loss rate: 0.03%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-03-19 09:13:21

End at: 2019-03-19 09:13:51

Local clock offset: -4.889 ms

Remote clock offset: 0.094 ms

Below is generated by plot.py at 2019-03-19 10:40:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.39 Mbit/s

95th percentile per-packet one-way delay: 6.206 ms

Loss rate: 0.03%

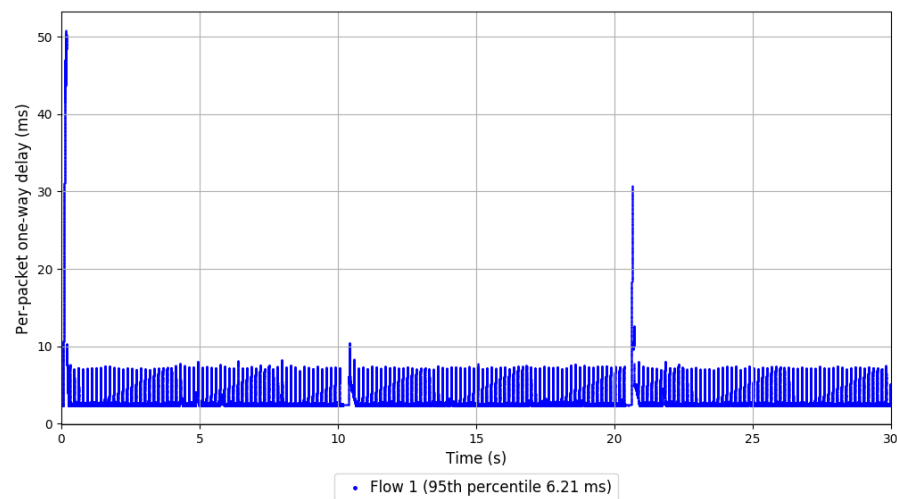
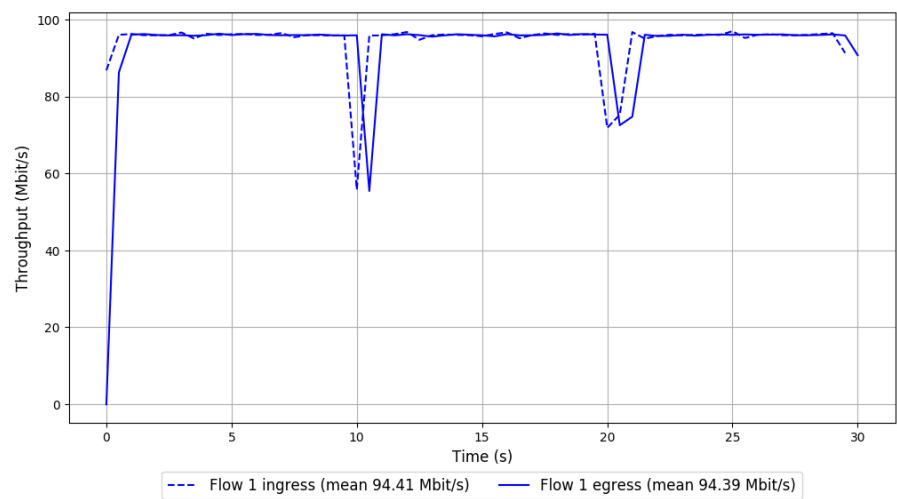
-- Flow 1:

Average throughput: 94.39 Mbit/s

95th percentile per-packet one-way delay: 6.206 ms

Loss rate: 0.03%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-03-19 09:37:05

End at: 2019-03-19 09:37:35

Local clock offset: -6.77 ms

Remote clock offset: 0.313 ms

Below is generated by plot.py at 2019-03-19 10:40:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.49 Mbit/s

95th percentile per-packet one-way delay: 6.204 ms

Loss rate: 0.02%

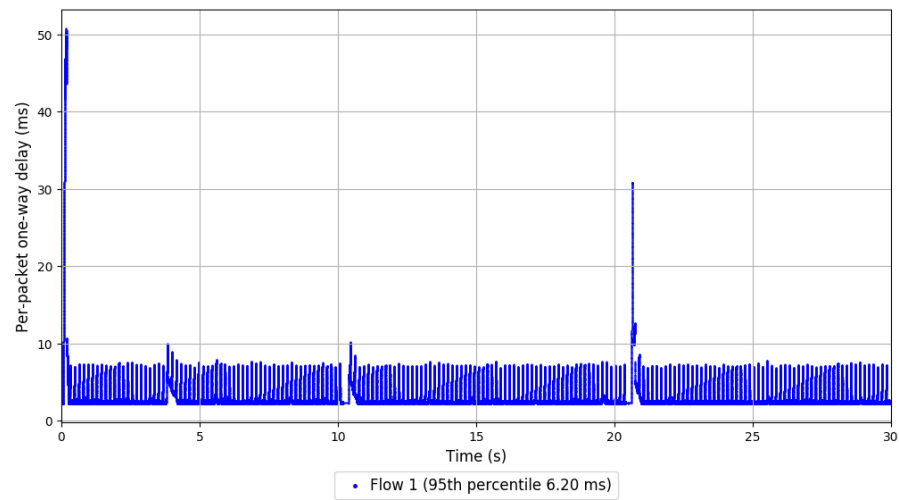
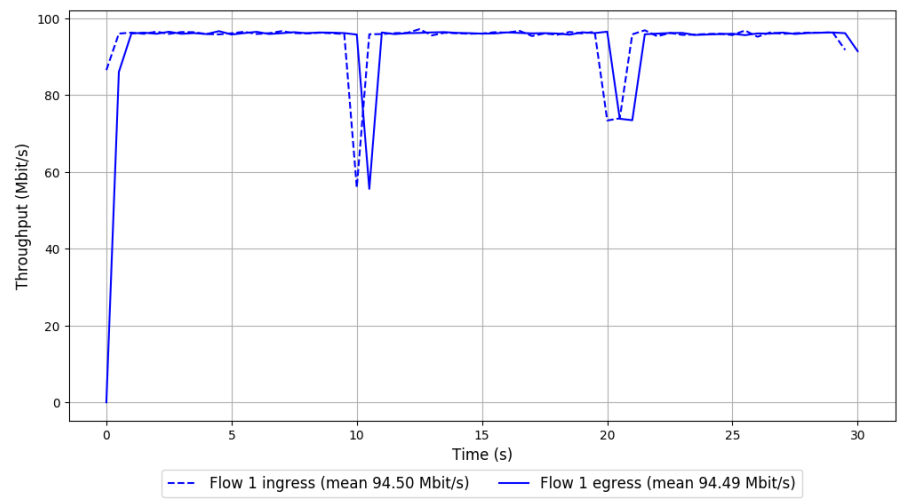
-- Flow 1:

Average throughput: 94.49 Mbit/s

95th percentile per-packet one-way delay: 6.204 ms

Loss rate: 0.02%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-03-19 10:00:48

End at: 2019-03-19 10:01:18

Local clock offset: -7.417 ms

Remote clock offset: 0.457 ms

Below is generated by plot.py at 2019-03-19 10:40:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.44 Mbit/s

95th percentile per-packet one-way delay: 6.228 ms

Loss rate: 0.02%

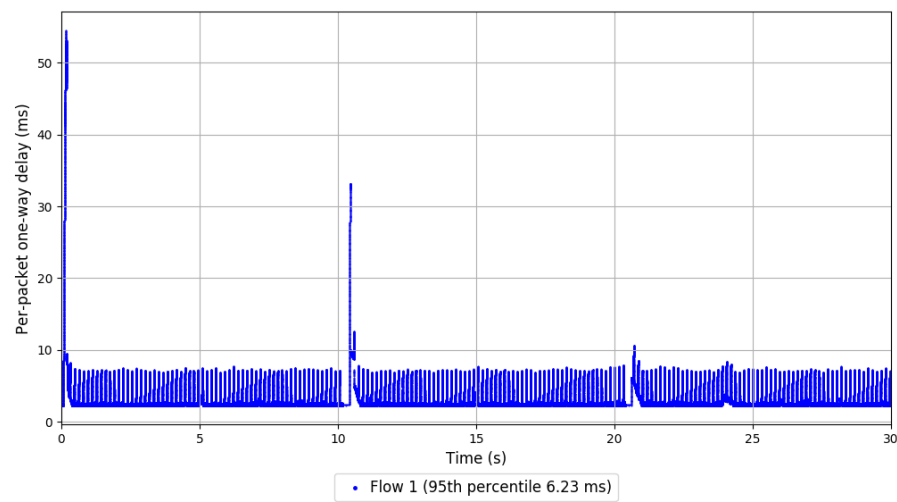
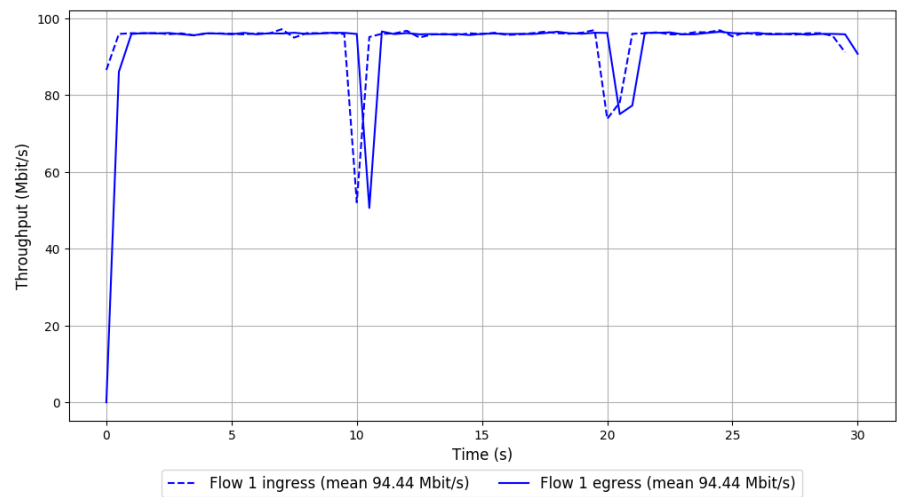
-- Flow 1:

Average throughput: 94.44 Mbit/s

95th percentile per-packet one-way delay: 6.228 ms

Loss rate: 0.02%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-03-19 10:24:32

End at: 2019-03-19 10:25:02

Local clock offset: -7.154 ms

Remote clock offset: 0.557 ms

Below is generated by plot.py at 2019-03-19 10:41:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.31 Mbit/s

95th percentile per-packet one-way delay: 5.388 ms

Loss rate: 0.02%

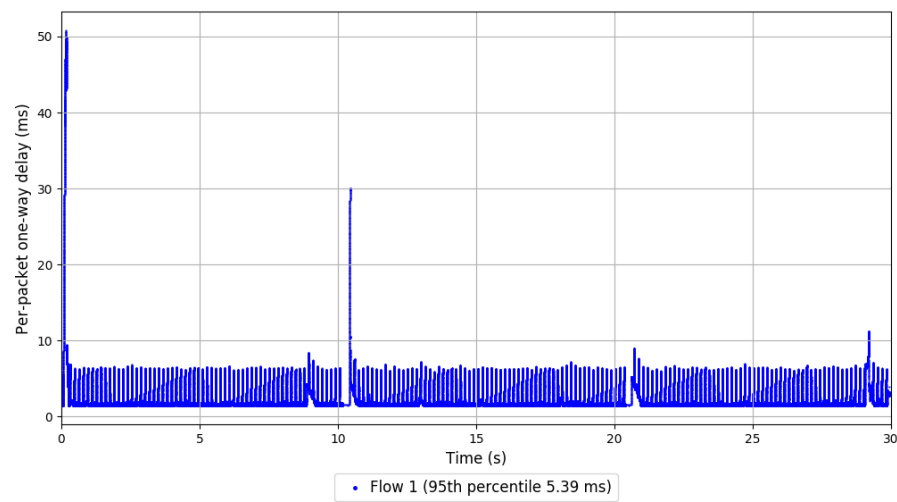
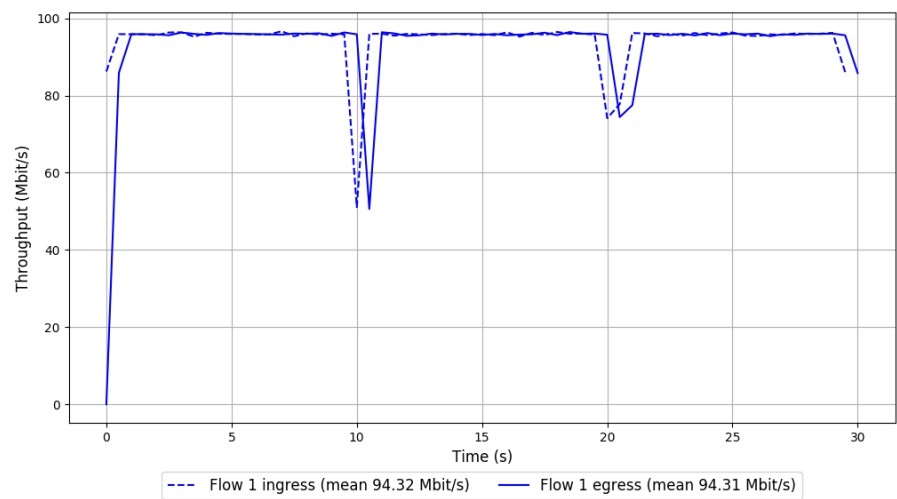
-- Flow 1:

Average throughput: 94.31 Mbit/s

95th percentile per-packet one-way delay: 5.388 ms

Loss rate: 0.02%

Run 5: Report of FillP-Sheep — Data Link

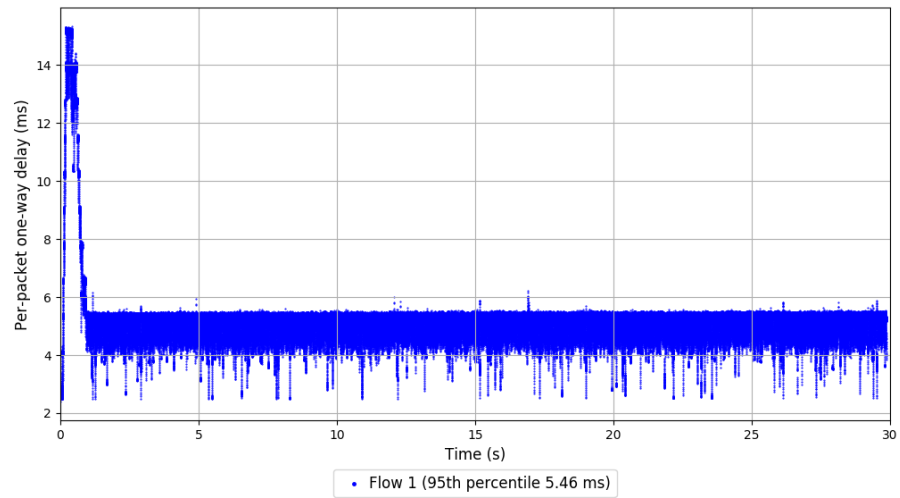
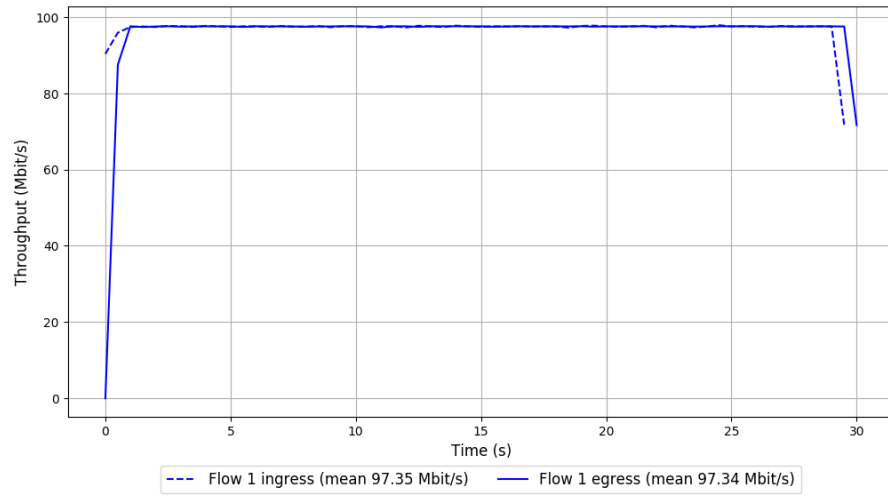


```
Run 1: Statistics of Indigo

Start at: 2019-03-19 08:46:11
End at: 2019-03-19 08:46:41
Local clock offset: -4.469 ms
Remote clock offset: -0.17 ms

# Below is generated by plot.py at 2019-03-19 10:41:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.34 Mbit/s
95th percentile per-packet one-way delay: 5.458 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.34 Mbit/s
95th percentile per-packet one-way delay: 5.458 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-03-19 09:09:54

End at: 2019-03-19 09:10:24

Local clock offset: -5.658 ms

Remote clock offset: 0.166 ms

Below is generated by plot.py at 2019-03-19 10:41:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.21 Mbit/s

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

Loss rate: 0.02%

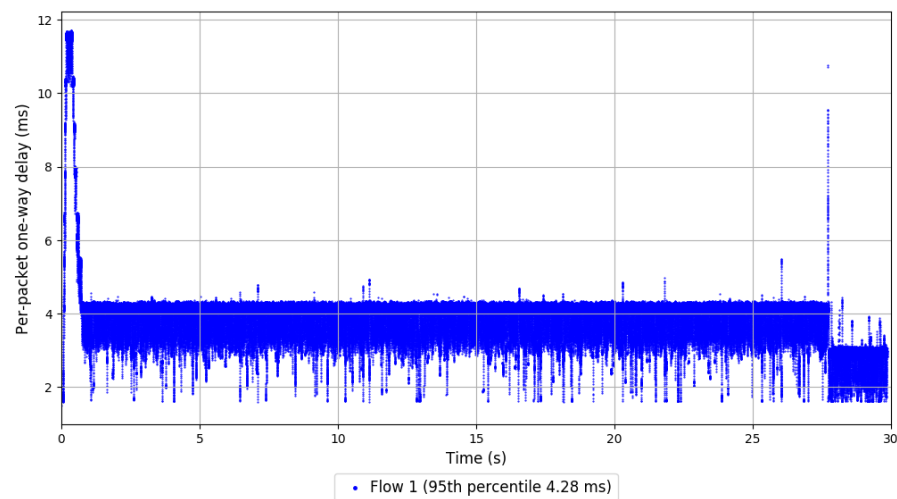
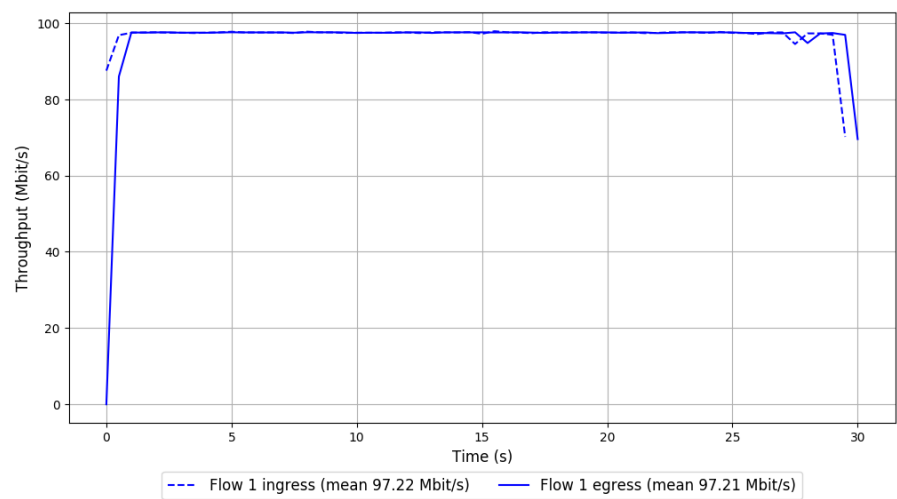
-- Flow 1:

Average throughput: 97.21 Mbit/s

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

Loss rate: 0.02%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-03-19 09:33:39

End at: 2019-03-19 09:34:09

Local clock offset: -6.705 ms

Remote clock offset: 0.211 ms

Below is generated by plot.py at 2019-03-19 10:41:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.33 Mbit/s

95th percentile per-packet one-way delay: 5.371 ms

Loss rate: 0.02%

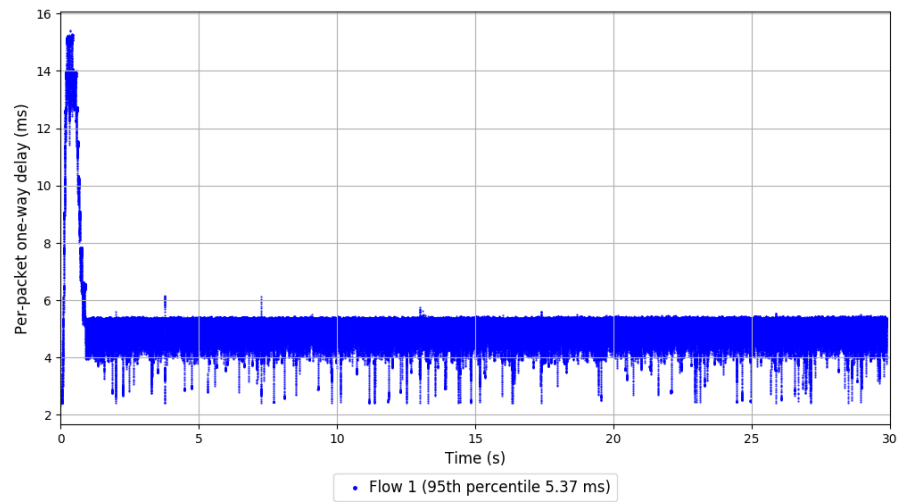
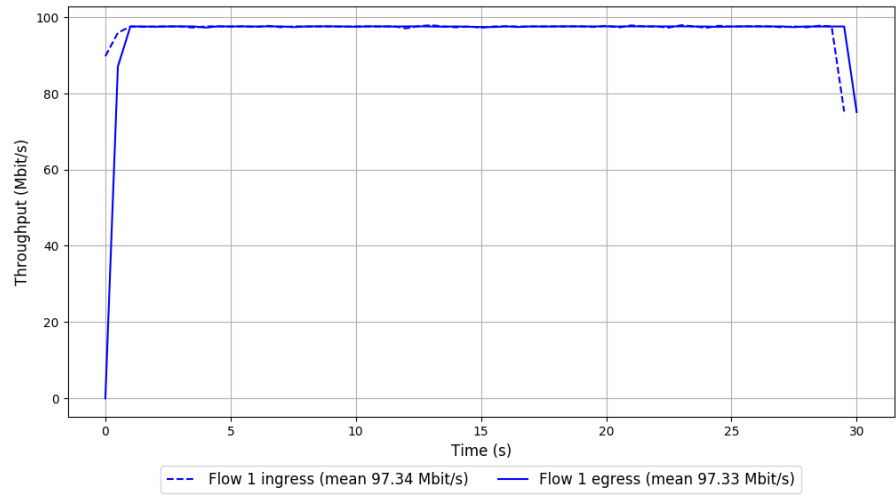
-- Flow 1:

Average throughput: 97.33 Mbit/s

95th percentile per-packet one-way delay: 5.371 ms

Loss rate: 0.02%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-03-19 09:57:22

End at: 2019-03-19 09:57:52

Local clock offset: -8.104 ms

Remote clock offset: 0.392 ms

Below is generated by plot.py at 2019-03-19 10:41:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.23 Mbit/s

95th percentile per-packet one-way delay: 4.613 ms

Loss rate: 0.02%

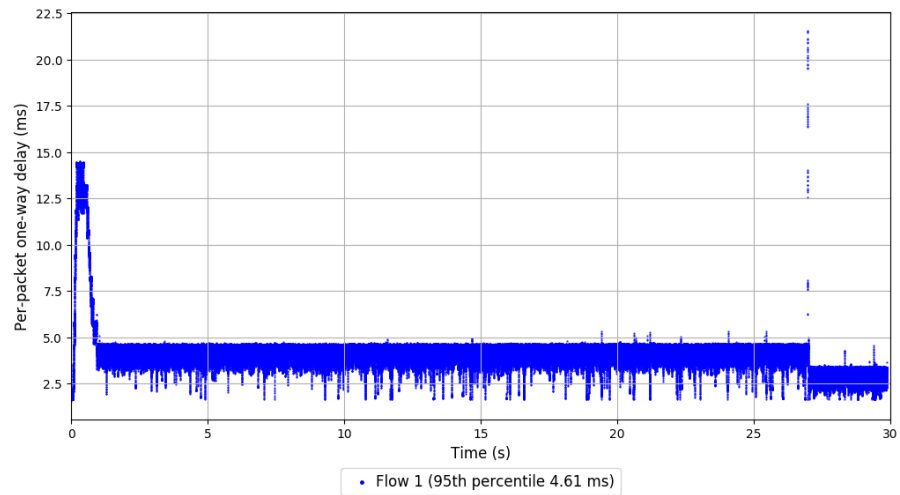
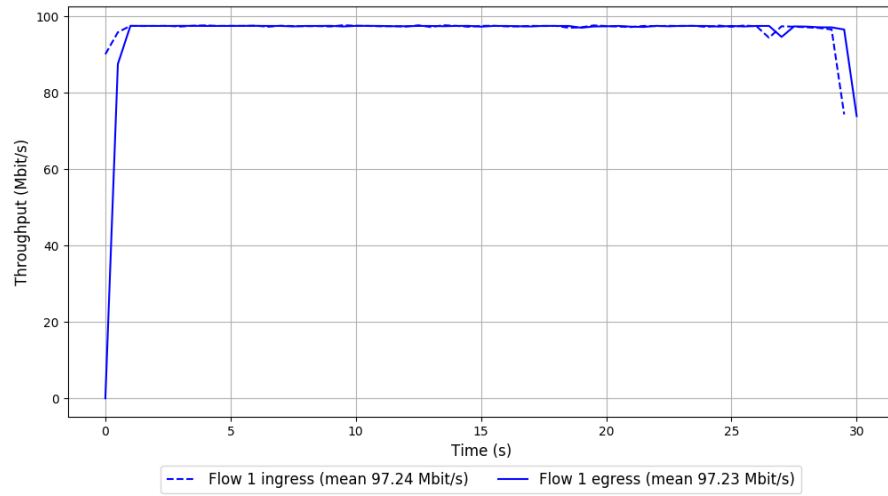
-- Flow 1:

Average throughput: 97.23 Mbit/s

95th percentile per-packet one-way delay: 4.613 ms

Loss rate: 0.02%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-03-19 10:21:07

End at: 2019-03-19 10:21:37

Local clock offset: -7.586 ms

Remote clock offset: 0.484 ms

Below is generated by plot.py at 2019-03-19 10:41:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.28 Mbit/s

95th percentile per-packet one-way delay: 4.244 ms

Loss rate: 0.02%

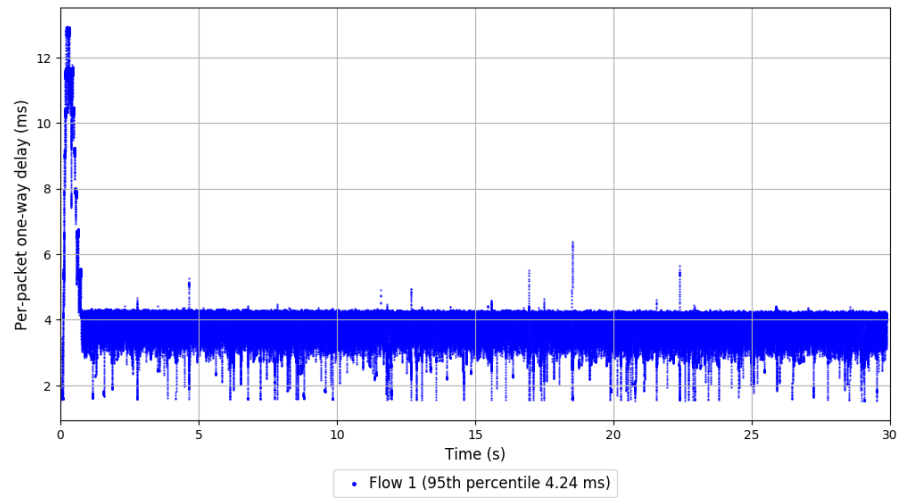
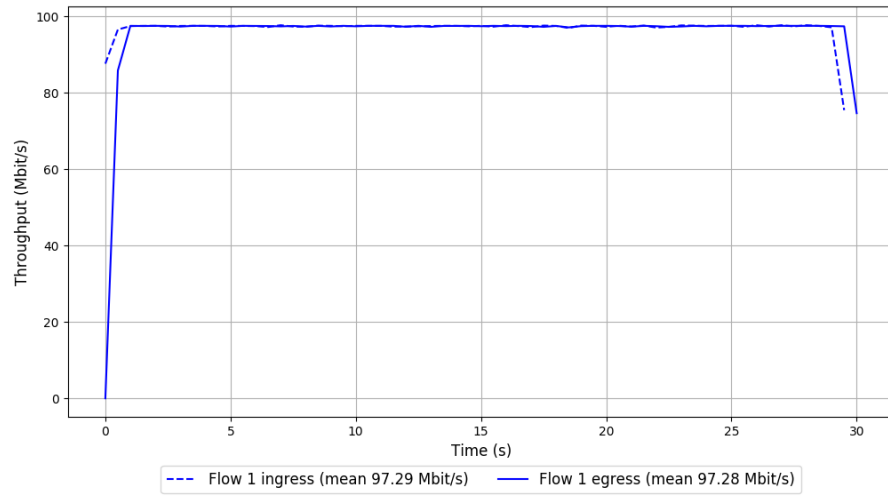
-- Flow 1:

Average throughput: 97.28 Mbit/s

95th percentile per-packet one-way delay: 4.244 ms

Loss rate: 0.02%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-03-19 08:58:45

End at: 2019-03-19 08:59:15

Local clock offset: -4.886 ms

Remote clock offset: 0.065 ms

Below is generated by plot.py at 2019-03-19 10:41:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.03 Mbit/s

95th percentile per-packet one-way delay: 4.279 ms

Loss rate: 0.02%

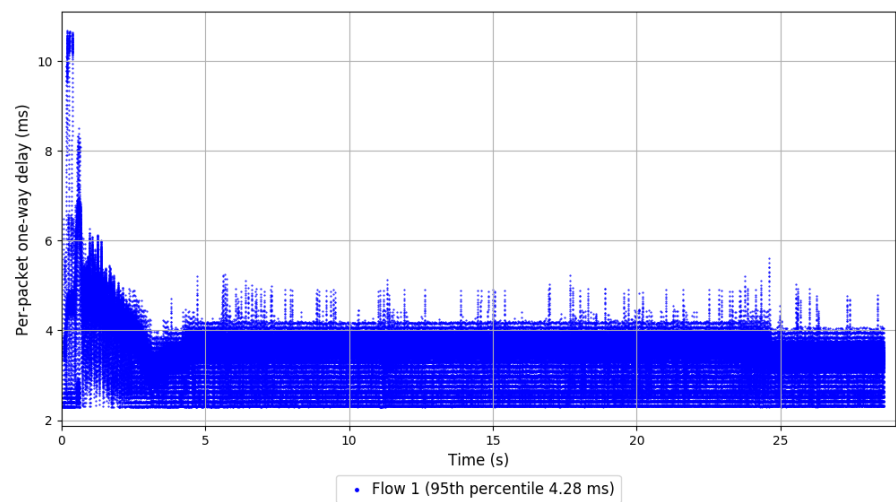
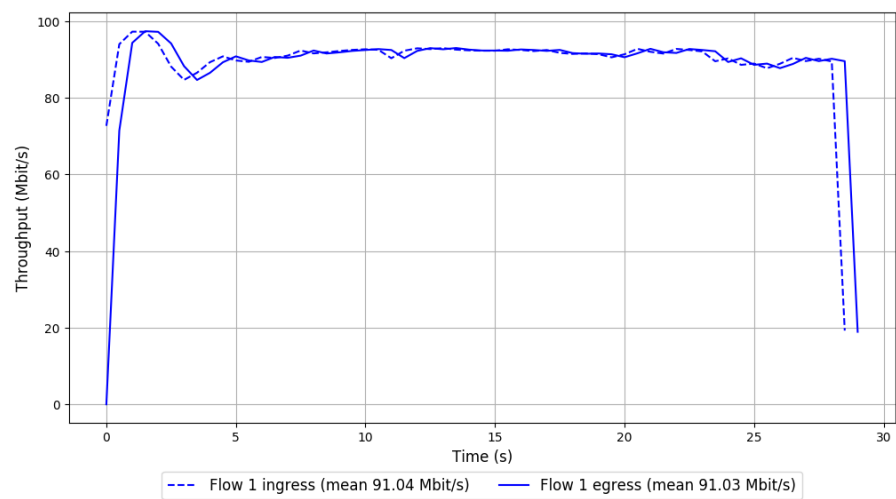
-- Flow 1:

Average throughput: 91.03 Mbit/s

95th percentile per-packet one-way delay: 4.279 ms

Loss rate: 0.02%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-03-19 09:22:29

End at: 2019-03-19 09:22:59

Local clock offset: -5.857 ms

Remote clock offset: 0.175 ms

Below is generated by plot.py at 2019-03-19 10:41:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.79 Mbit/s

95th percentile per-packet one-way delay: 4.446 ms

Loss rate: 0.02%

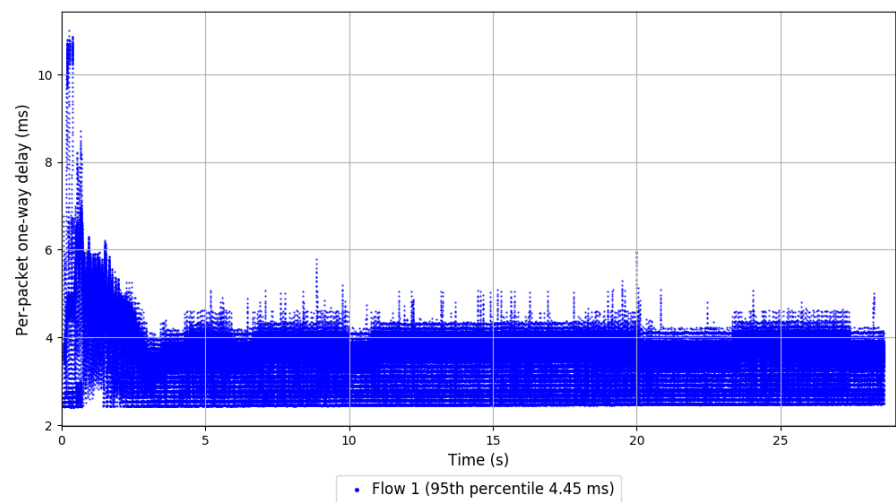
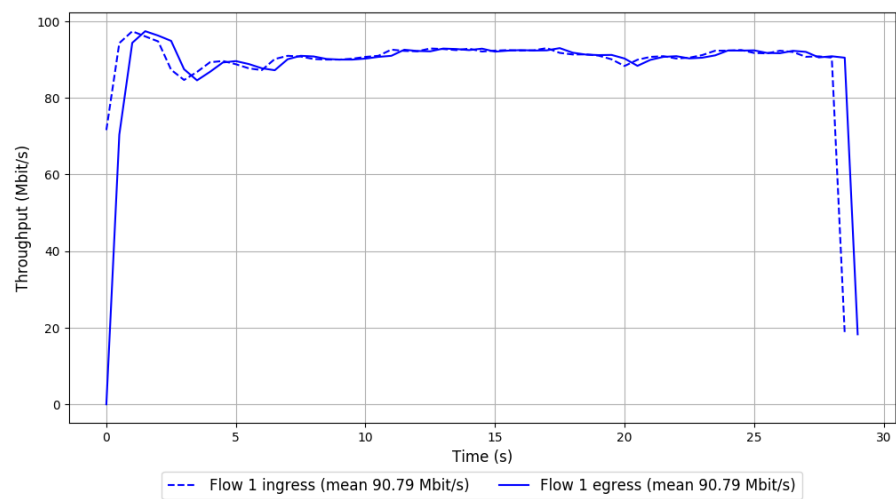
-- Flow 1:

Average throughput: 90.79 Mbit/s

95th percentile per-packet one-way delay: 4.446 ms

Loss rate: 0.02%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-03-19 09:46:13

End at: 2019-03-19 09:46:43

Local clock offset: -7.042 ms

Remote clock offset: 0.286 ms

Below is generated by plot.py at 2019-03-19 10:41:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.89 Mbit/s

95th percentile per-packet one-way delay: 4.272 ms

Loss rate: 0.02%

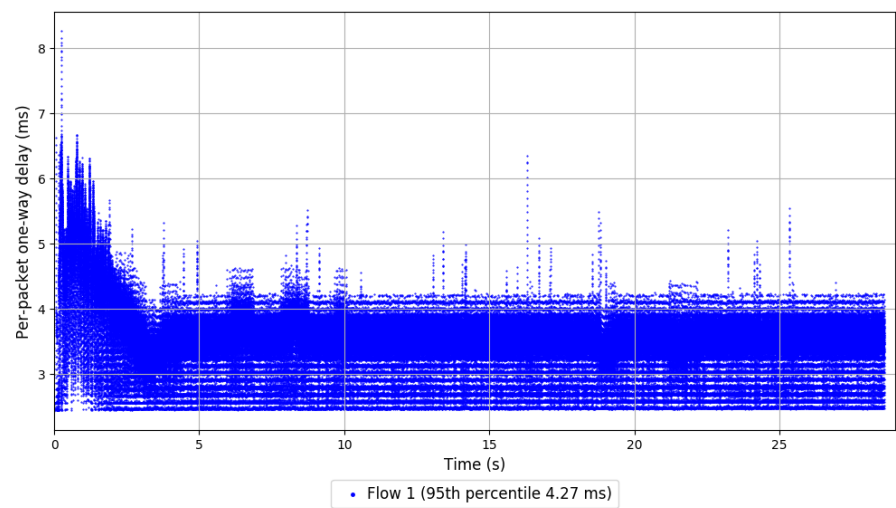
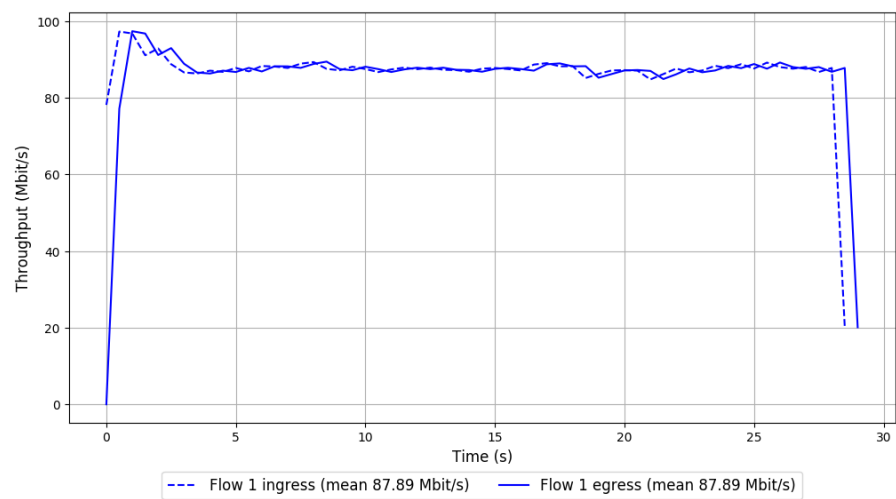
-- Flow 1:

Average throughput: 87.89 Mbit/s

95th percentile per-packet one-way delay: 4.272 ms

Loss rate: 0.02%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-03-19 10:09:56

End at: 2019-03-19 10:10:26

Local clock offset: -7.618 ms

Remote clock offset: 0.366 ms

Below is generated by plot.py at 2019-03-19 10:41:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.65 Mbit/s

95th percentile per-packet one-way delay: 4.439 ms

Loss rate: 0.02%

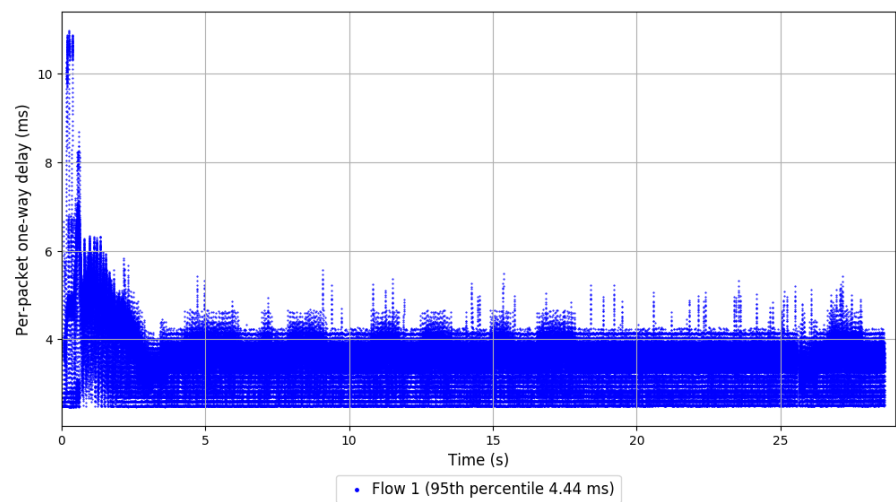
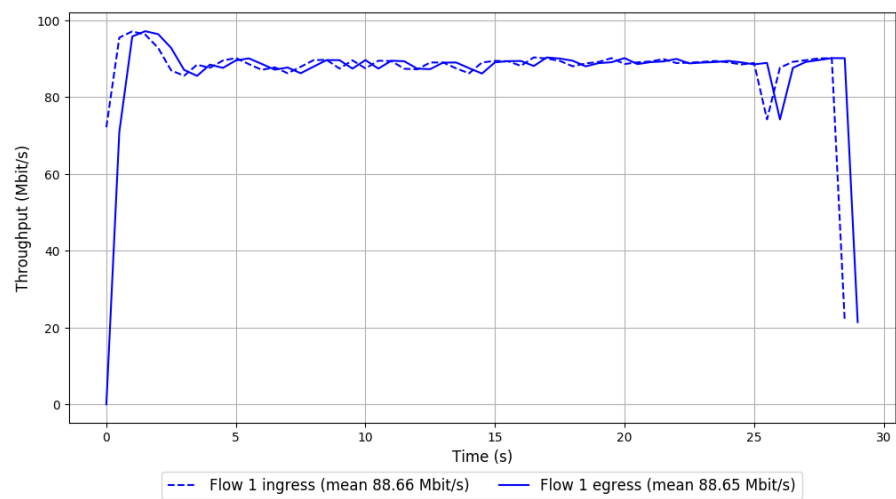
-- Flow 1:

Average throughput: 88.65 Mbit/s

95th percentile per-packet one-way delay: 4.439 ms

Loss rate: 0.02%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-03-19 10:33:40

End at: 2019-03-19 10:34:10

Local clock offset: -6.605 ms

Remote clock offset: 0.511 ms

Below is generated by plot.py at 2019-03-19 10:42:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.01 Mbit/s

95th percentile per-packet one-way delay: 2.841 ms

Loss rate: 0.02%

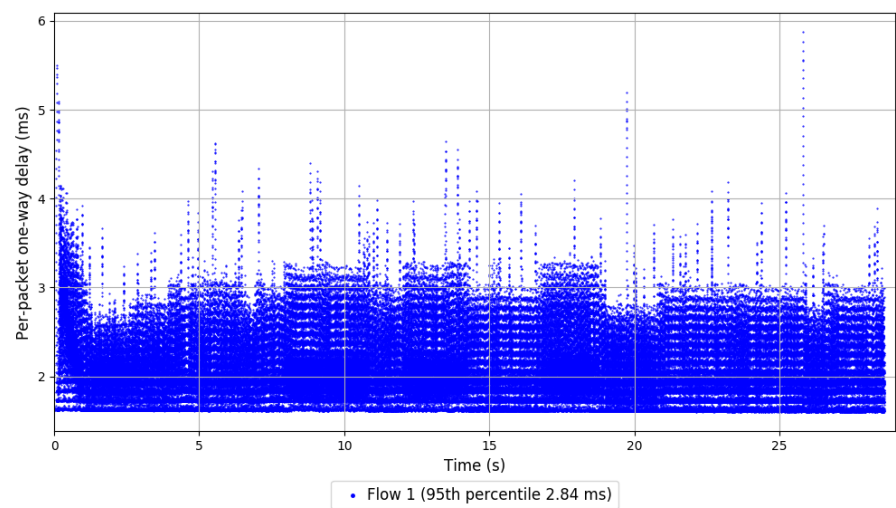
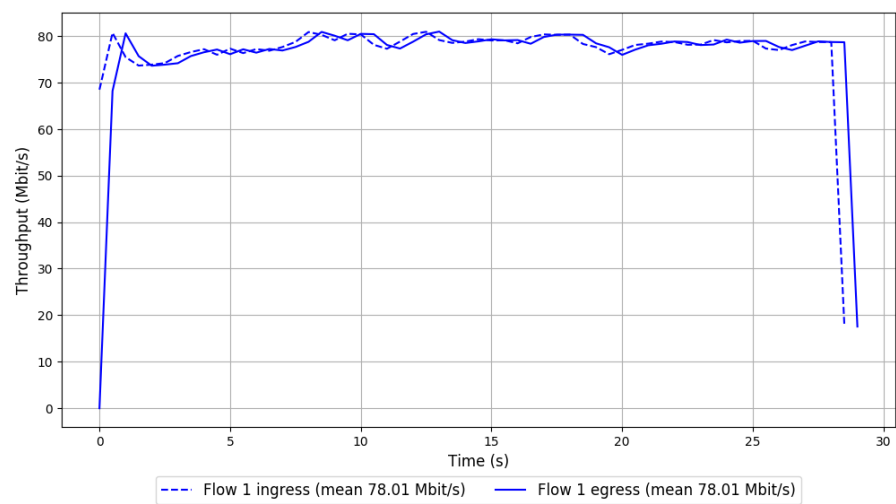
-- Flow 1:

Average throughput: 78.01 Mbit/s

95th percentile per-packet one-way delay: 2.841 ms

Loss rate: 0.02%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-03-19 08:38:23

End at: 2019-03-19 08:38:53

Local clock offset: -4.549 ms

Remote clock offset: -0.15 ms

Below is generated by plot.py at 2019-03-19 10:42:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.41 Mbit/s

95th percentile per-packet one-way delay: 4.083 ms

Loss rate: 0.01%

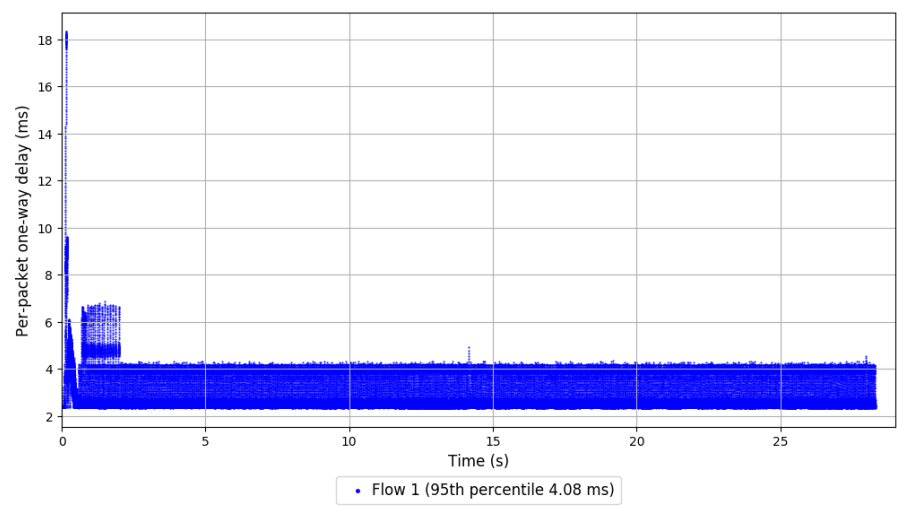
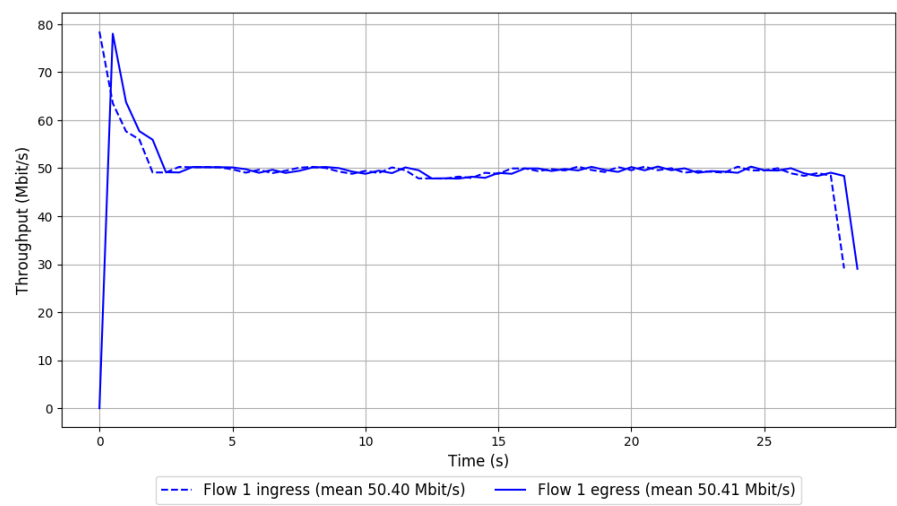
-- Flow 1:

Average throughput: 50.41 Mbit/s

95th percentile per-packet one-way delay: 4.083 ms

Loss rate: 0.01%

Run 1: Report of Indigo-MusesC5 — Data Link

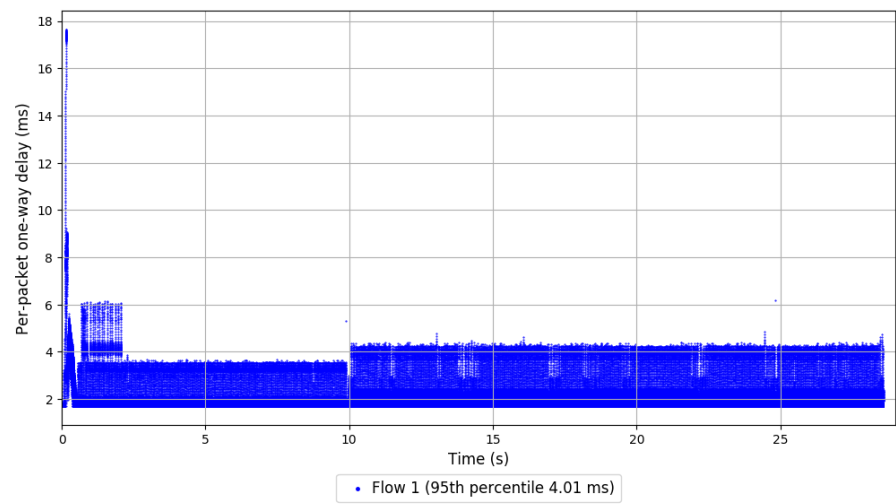
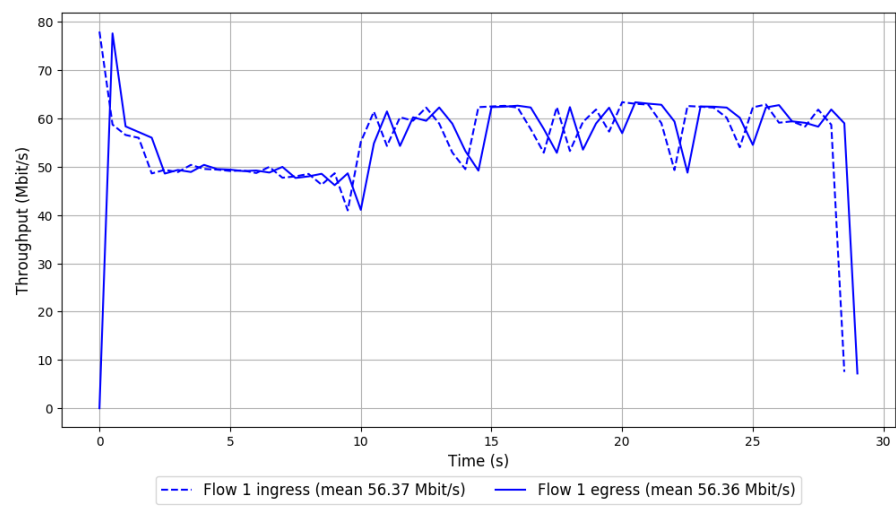


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-03-19 09:02:08
End at: 2019-03-19 09:02:38
Local clock offset: -5.616 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2019-03-19 10:42:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 56.36 Mbit/s
95th percentile per-packet one-way delay: 4.008 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 56.36 Mbit/s
95th percentile per-packet one-way delay: 4.008 ms
Loss rate: 0.01%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-03-19 09:25:52

End at: 2019-03-19 09:26:22

Local clock offset: -6.963 ms

Remote clock offset: 0.17 ms

Below is generated by plot.py at 2019-03-19 10:42:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.81 Mbit/s

95th percentile per-packet one-way delay: 4.151 ms

Loss rate: 0.02%

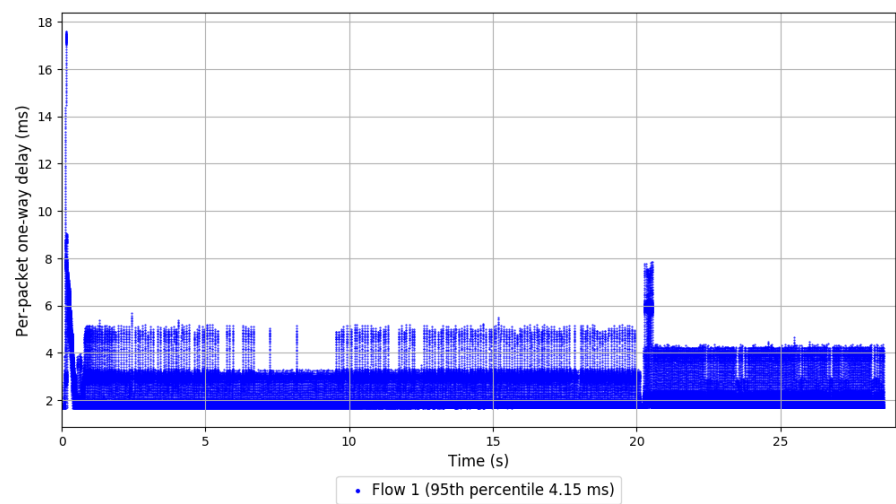
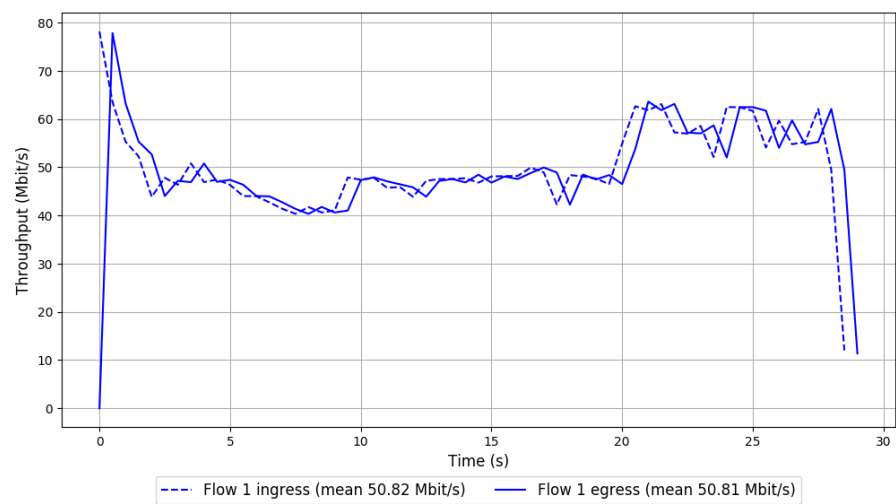
-- Flow 1:

Average throughput: 50.81 Mbit/s

95th percentile per-packet one-way delay: 4.151 ms

Loss rate: 0.02%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-03-19 09:49:36

End at: 2019-03-19 09:50:06

Local clock offset: -7.126 ms

Remote clock offset: 0.31 ms

Below is generated by plot.py at 2019-03-19 10:42:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.82 Mbit/s

95th percentile per-packet one-way delay: 4.521 ms

Loss rate: 0.01%

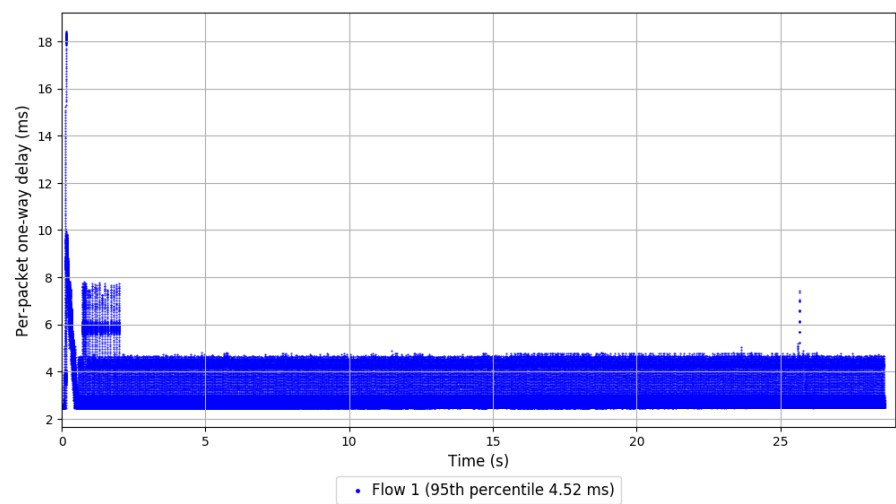
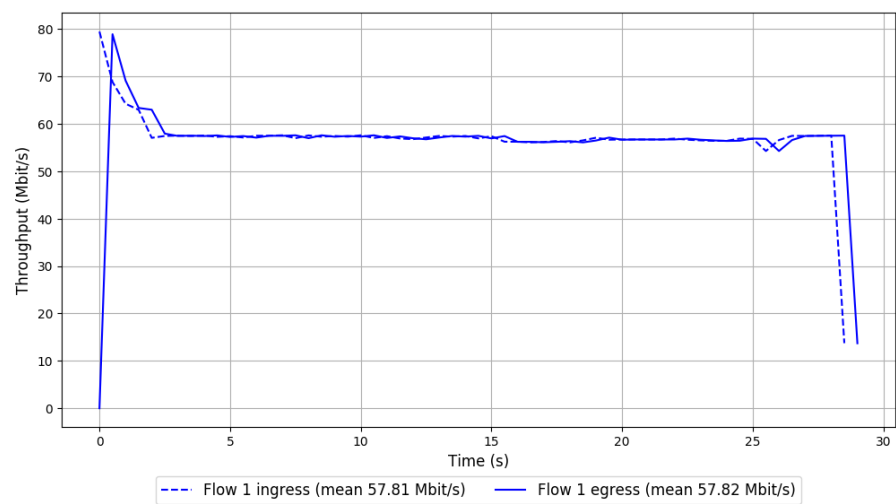
-- Flow 1:

Average throughput: 57.82 Mbit/s

95th percentile per-packet one-way delay: 4.521 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-03-19 10:13:19

End at: 2019-03-19 10:13:49

Local clock offset: -8.451 ms

Remote clock offset: 0.497 ms

Below is generated by plot.py at 2019-03-19 10:42:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.79 Mbit/s

95th percentile per-packet one-way delay: 2.014 ms

Loss rate: 0.01%

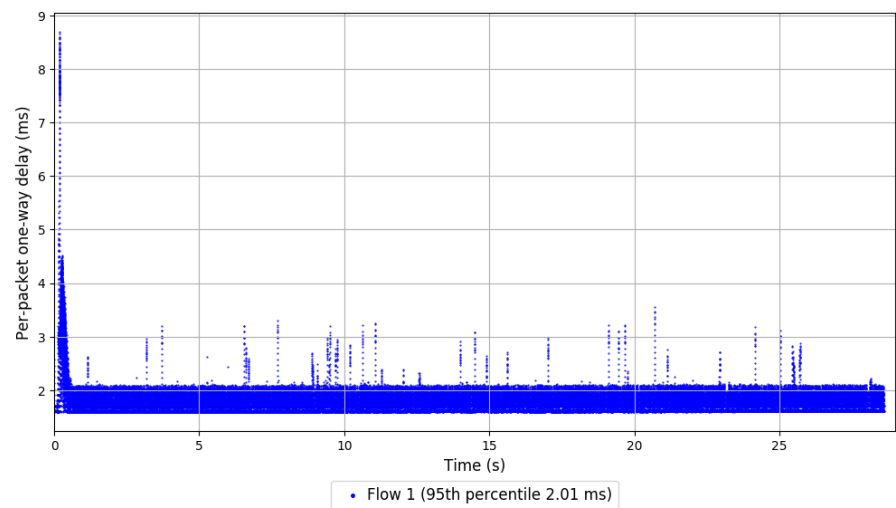
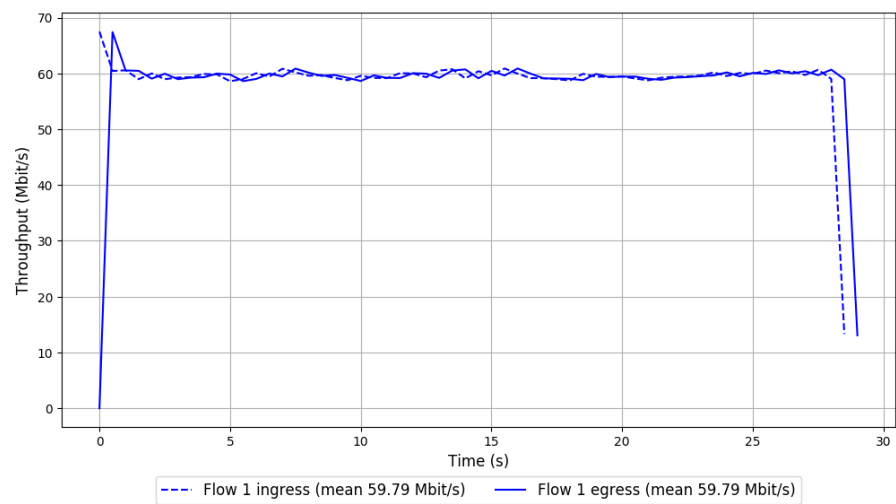
-- Flow 1:

Average throughput: 59.79 Mbit/s

95th percentile per-packet one-way delay: 2.014 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesC5 — Data Link

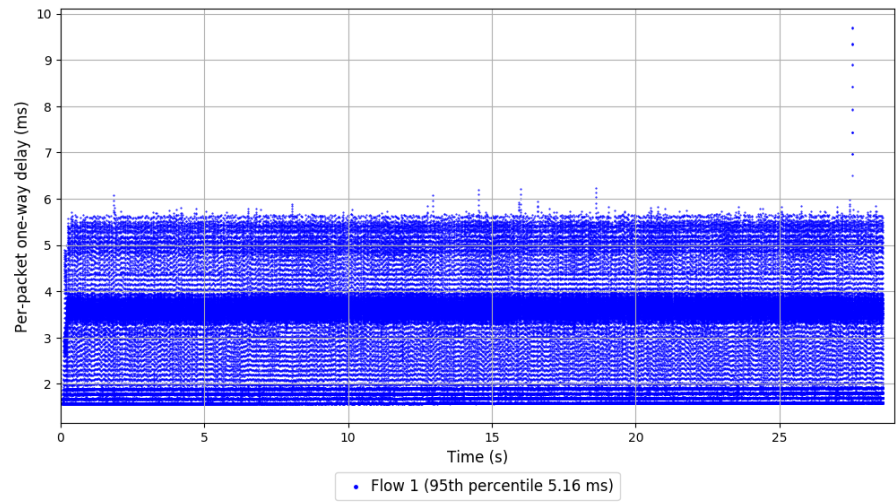
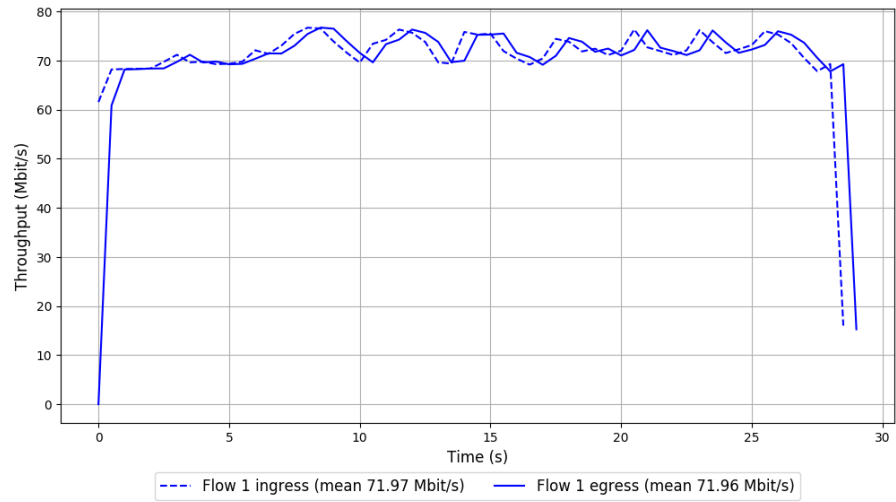



```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-03-19 08:47:20
End at: 2019-03-19 08:47:50
Local clock offset: -5.363 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2019-03-19 10:42:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.96 Mbit/s
95th percentile per-packet one-way delay: 5.163 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 71.96 Mbit/s
95th percentile per-packet one-way delay: 5.163 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-03-19 09:11:03

End at: 2019-03-19 09:11:33

Local clock offset: -4.901 ms

Remote clock offset: 0.092 ms

Below is generated by plot.py at 2019-03-19 10:42:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.77 Mbit/s

95th percentile per-packet one-way delay: 5.862 ms

Loss rate: 0.01%

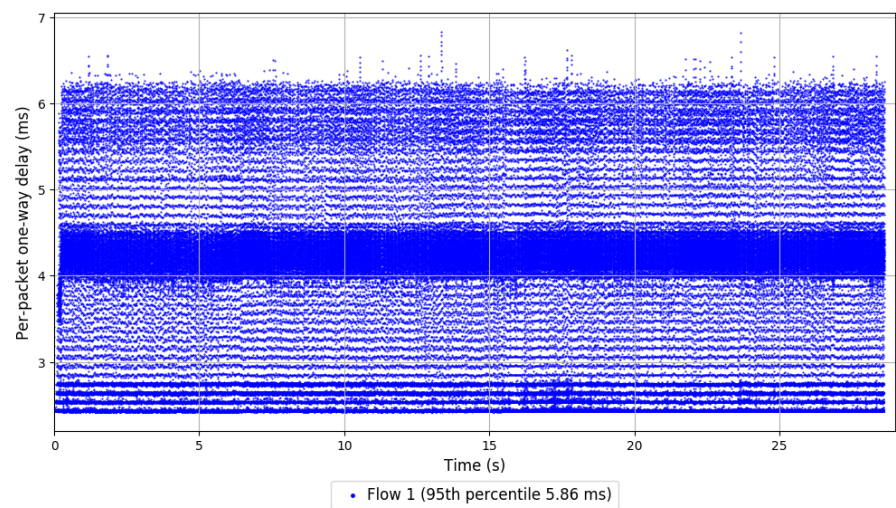
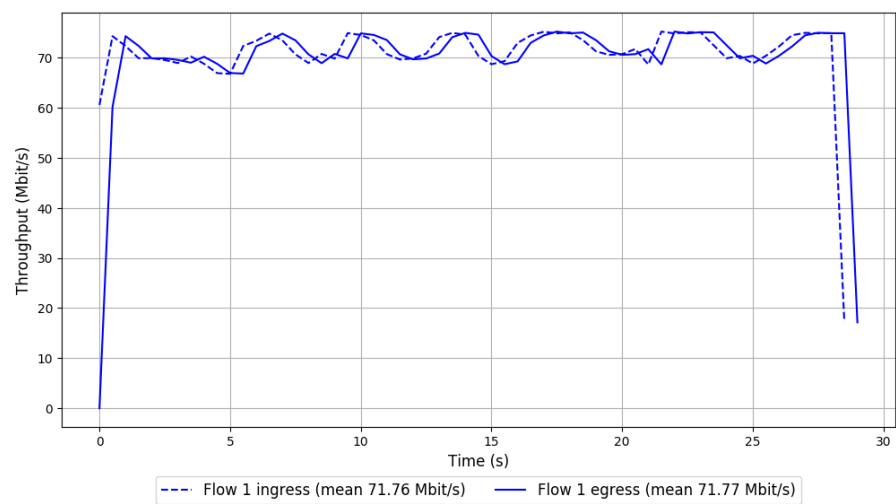
-- Flow 1:

Average throughput: 71.77 Mbit/s

95th percentile per-packet one-way delay: 5.862 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-03-19 09:34:49

End at: 2019-03-19 09:35:19

Local clock offset: -7.428 ms

Remote clock offset: 0.314 ms

Below is generated by plot.py at 2019-03-19 10:42:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.46 Mbit/s

95th percentile per-packet one-way delay: 2.154 ms

Loss rate: 0.01%

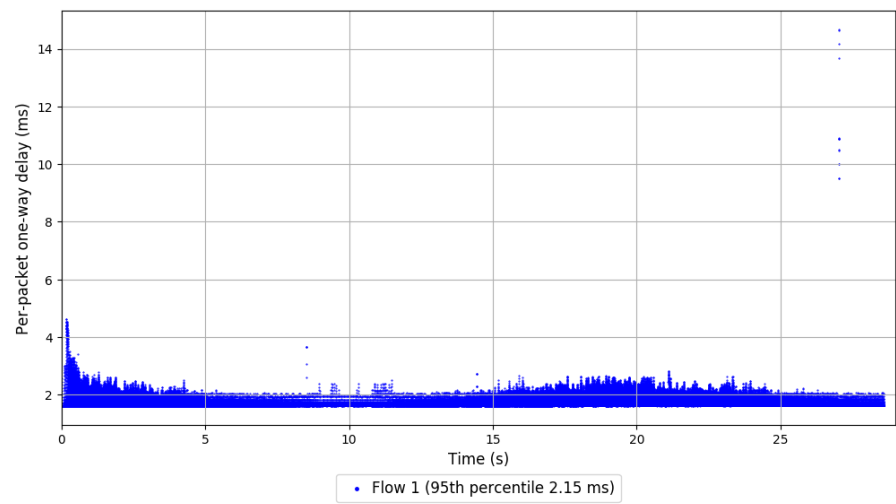
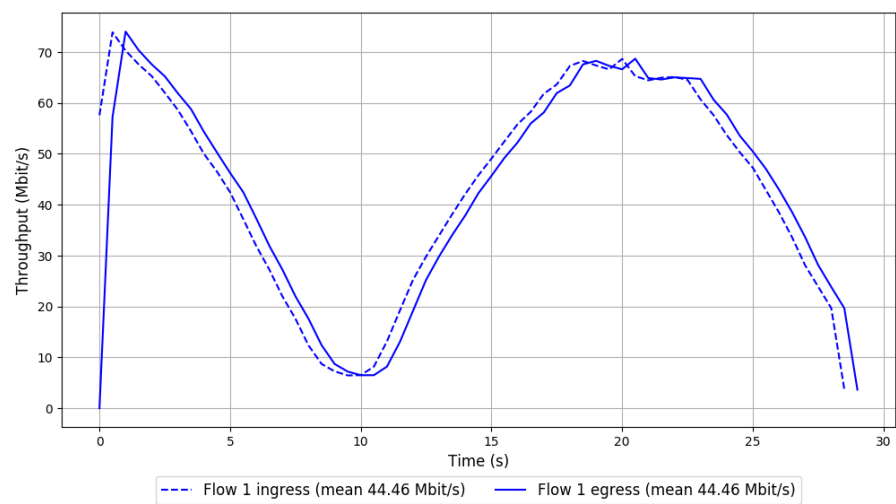
-- Flow 1:

Average throughput: 44.46 Mbit/s

95th percentile per-packet one-way delay: 2.154 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-03-19 09:58:31

End at: 2019-03-19 09:59:01

Local clock offset: -7.346 ms

Remote clock offset: 0.399 ms

Below is generated by plot.py at 2019-03-19 10:42:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.87 Mbit/s

95th percentile per-packet one-way delay: 2.998 ms

Loss rate: 0.00%

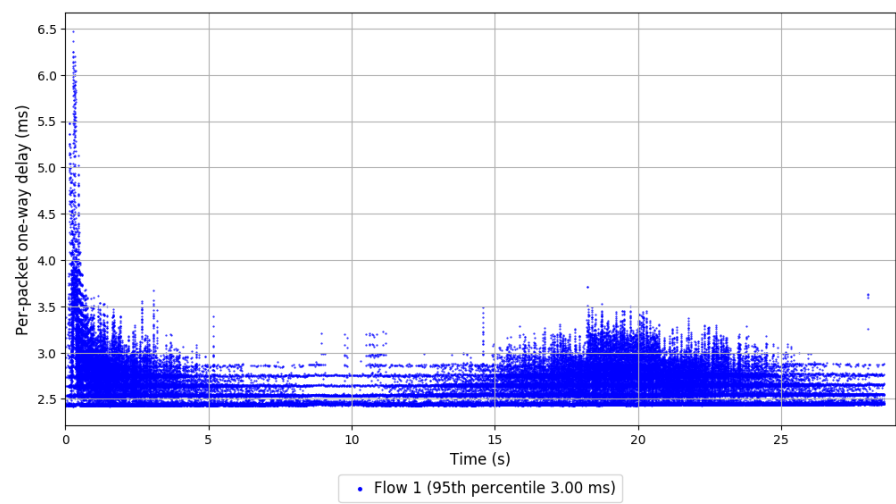
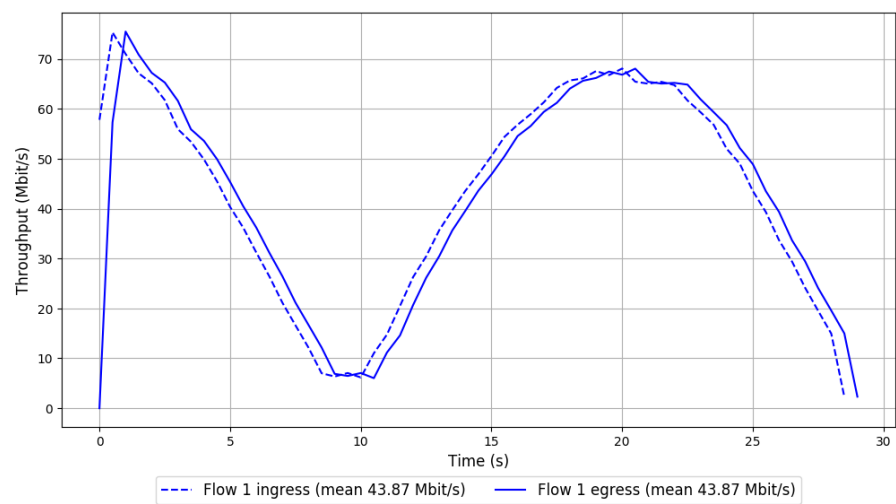
-- Flow 1:

Average throughput: 43.87 Mbit/s

95th percentile per-packet one-way delay: 2.998 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-03-19 10:22:16

End at: 2019-03-19 10:22:46

Local clock offset: -7.407 ms

Remote clock offset: 0.546 ms

Below is generated by plot.py at 2019-03-19 10:42:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.72 Mbit/s

95th percentile per-packet one-way delay: 2.108 ms

Loss rate: 0.00%

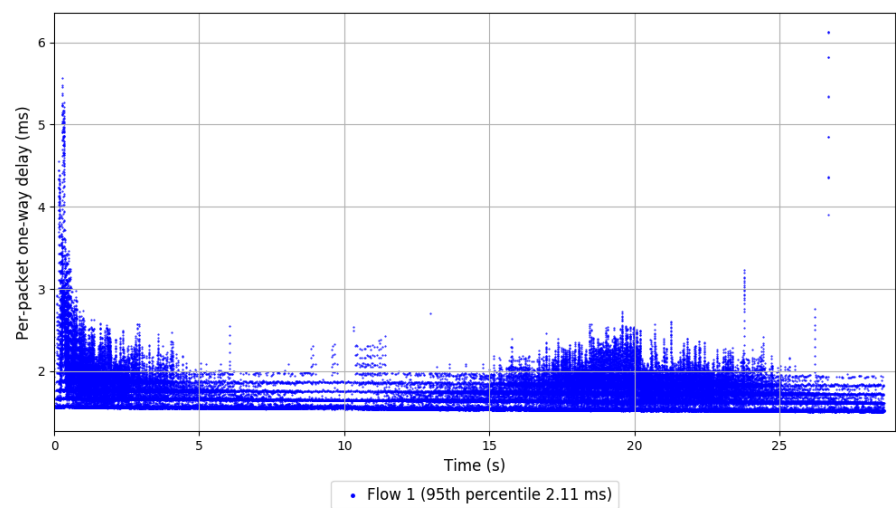
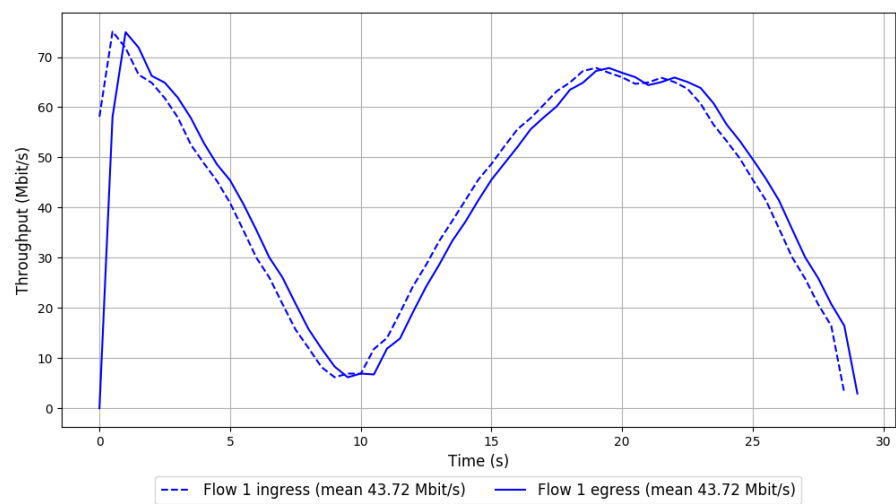
-- Flow 1:

Average throughput: 43.72 Mbit/s

95th percentile per-packet one-way delay: 2.108 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link

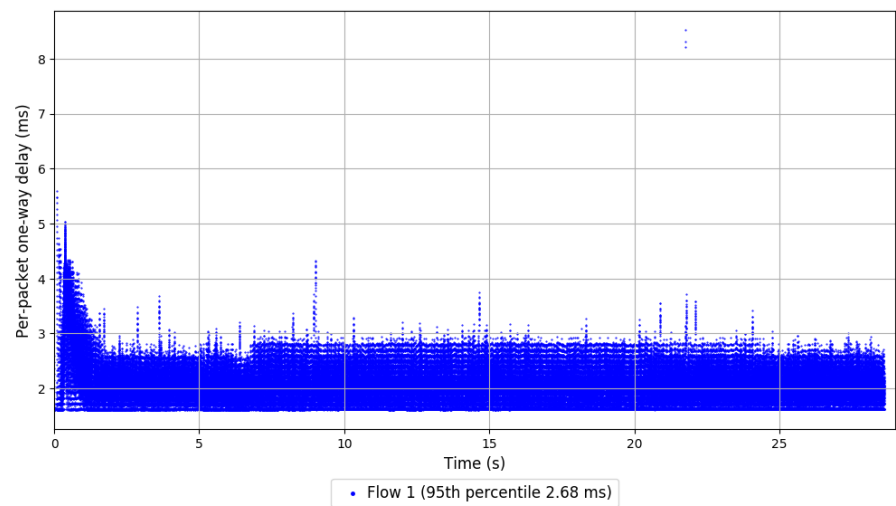
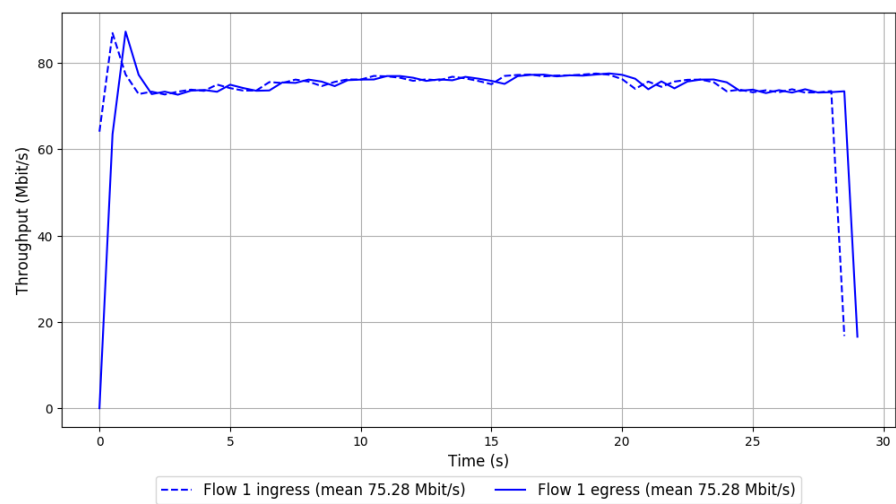


```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-03-19 08:57:38
End at: 2019-03-19 08:58:08
Local clock offset: -5.572 ms
Remote clock offset: 0.033 ms

# Below is generated by plot.py at 2019-03-19 10:43:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.28 Mbit/s
95th percentile per-packet one-way delay: 2.679 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 75.28 Mbit/s
95th percentile per-packet one-way delay: 2.679 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-03-19 09:21:22

End at: 2019-03-19 09:21:52

Local clock offset: -5.686 ms

Remote clock offset: 0.166 ms

Below is generated by plot.py at 2019-03-19 10:43:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.31 Mbit/s

95th percentile per-packet one-way delay: 3.646 ms

Loss rate: 0.02%

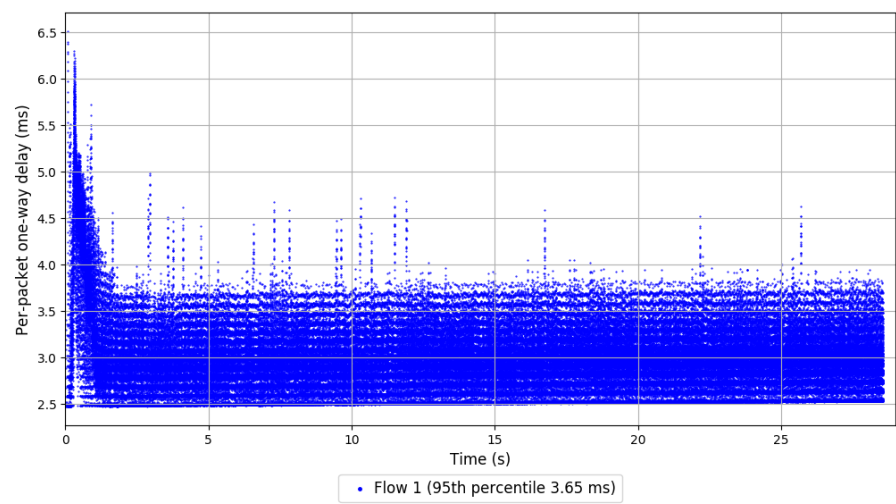
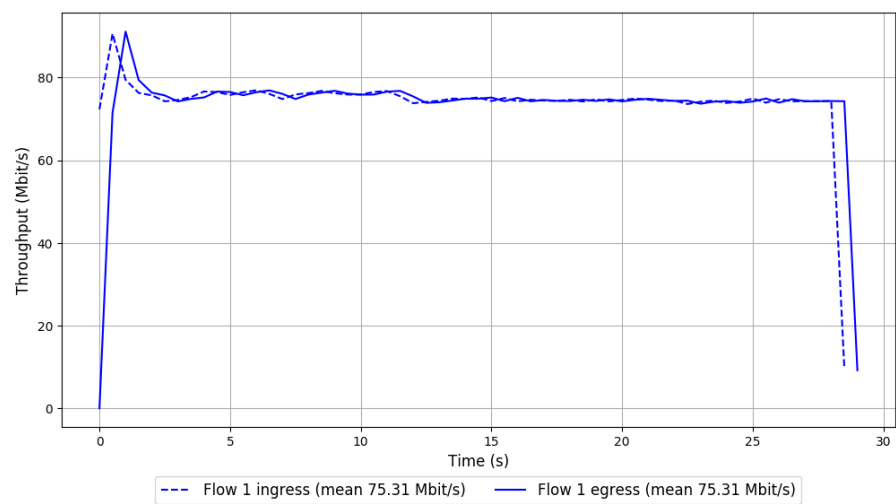
-- Flow 1:

Average throughput: 75.31 Mbit/s

95th percentile per-packet one-way delay: 3.646 ms

Loss rate: 0.02%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-03-19 09:45:06

End at: 2019-03-19 09:45:36

Local clock offset: -7.025 ms

Remote clock offset: 0.263 ms

Below is generated by plot.py at 2019-03-19 10:43:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.81 Mbit/s

95th percentile per-packet one-way delay: 3.755 ms

Loss rate: 0.02%

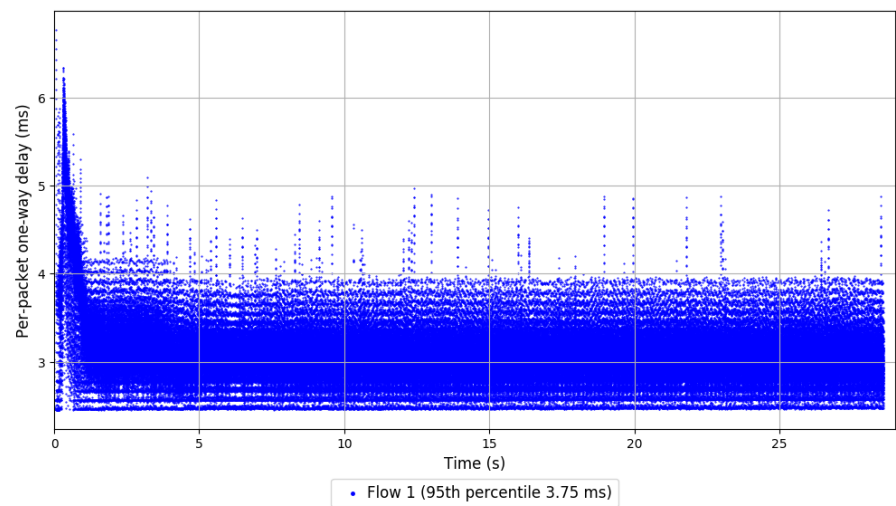
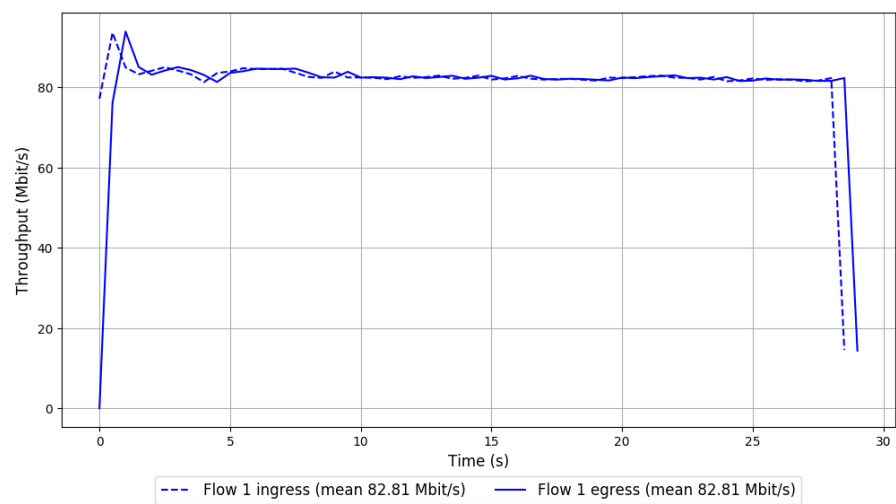
-- Flow 1:

Average throughput: 82.81 Mbit/s

95th percentile per-packet one-way delay: 3.755 ms

Loss rate: 0.02%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-03-19 10:08:49

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

Local clock offset: -8.334 ms

Remote clock offset: 0.339 ms

Below is generated by plot.py at 2019-03-19 10:43:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.66 Mbit/s

95th percentile per-packet one-way delay: 3.215 ms

Loss rate: 0.02%

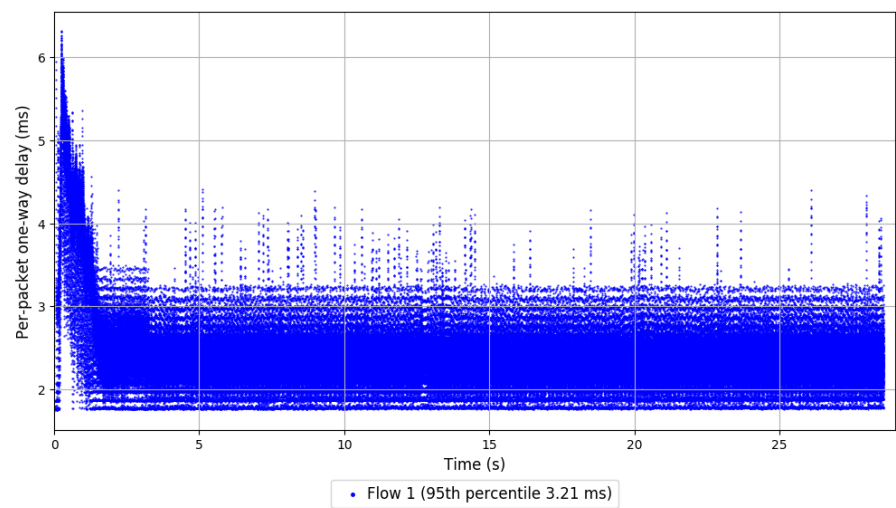
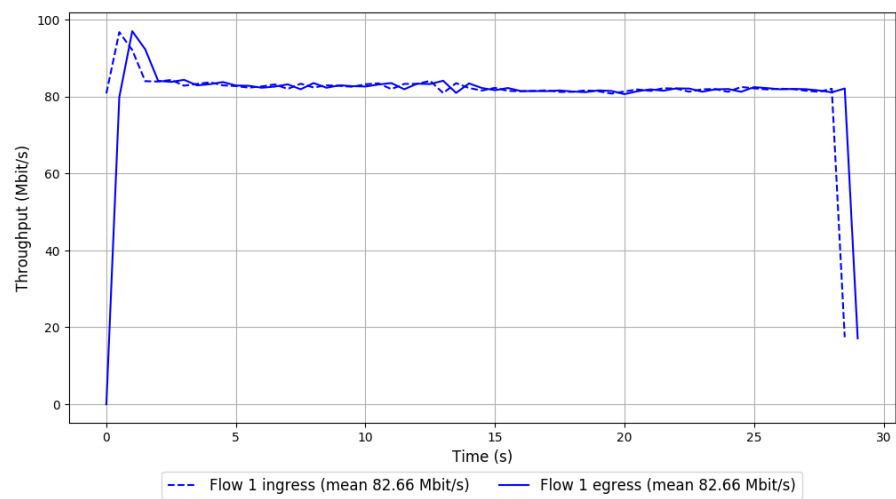
-- Flow 1:

Average throughput: 82.66 Mbit/s

95th percentile per-packet one-way delay: 3.215 ms

Loss rate: 0.02%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-03-19 10:32:33

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

Local clock offset: -5.843 ms

Remote clock offset: 0.534 ms

Below is generated by plot.py at 2019-03-19 10:43:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.29 Mbit/s

95th percentile per-packet one-way delay: 3.795 ms

Loss rate: 0.02%

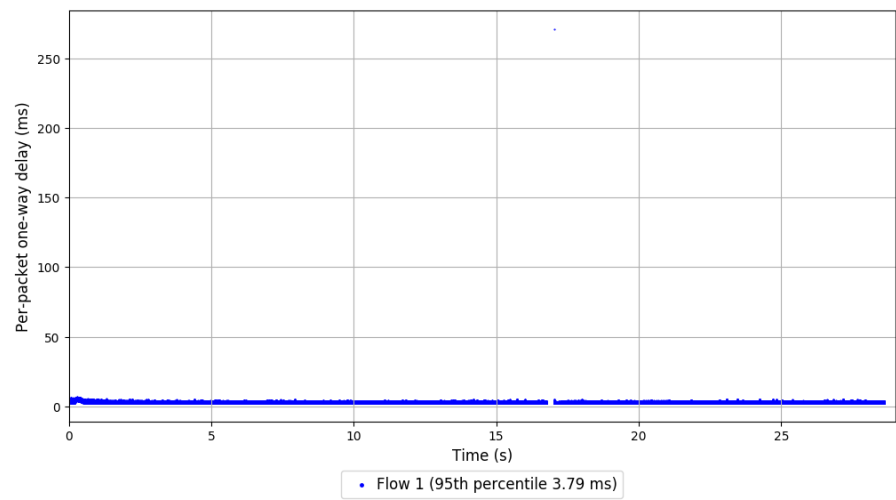
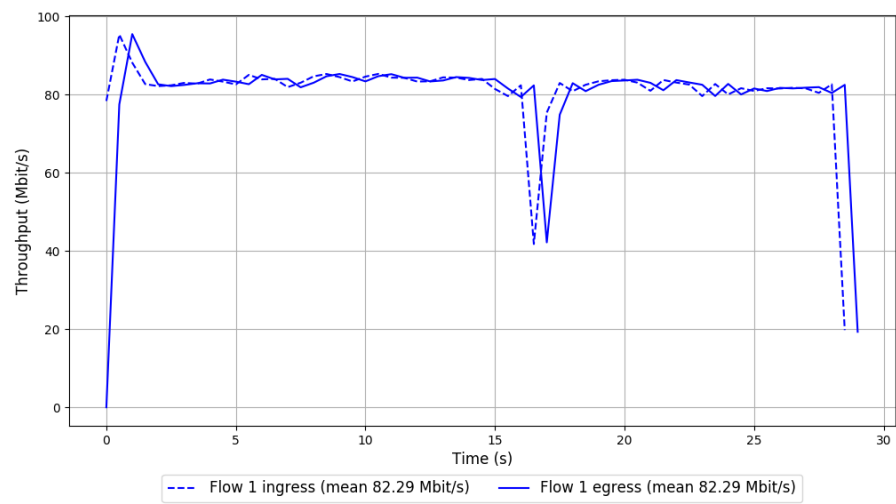
-- Flow 1:

Average throughput: 82.29 Mbit/s

95th percentile per-packet one-way delay: 3.795 ms

Loss rate: 0.02%

Run 5: Report of Indigo-MusesT — Data Link

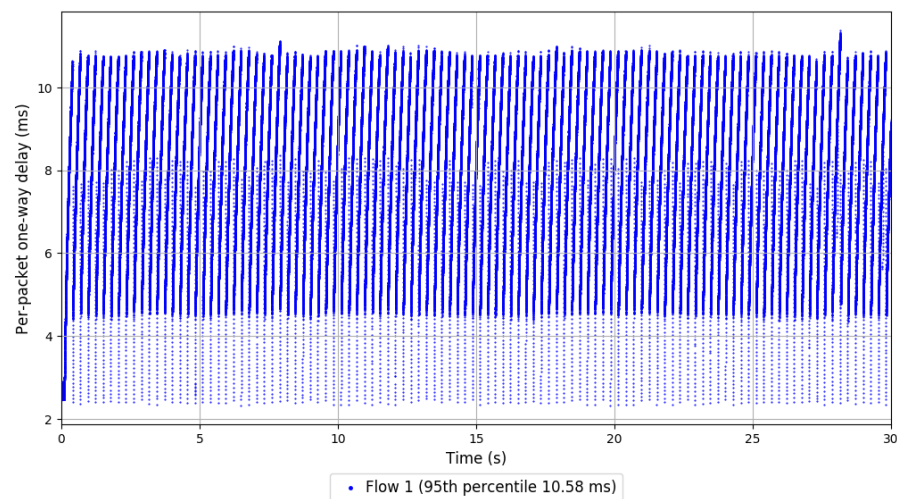
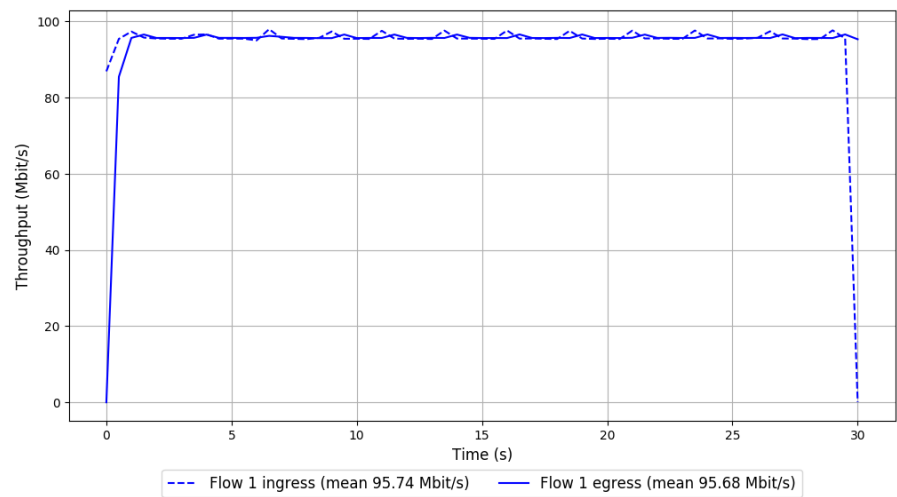


```
Run 1: Statistics of LEDBAT

Start at: 2019-03-19 08:36:08
End at: 2019-03-19 08:36:38
Local clock offset: -4.548 ms
Remote clock offset: -0.26 ms

# Below is generated by plot.py at 2019-03-19 10:43:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 10.579 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 10.579 ms
Loss rate: 0.08%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-03-19 08:59:53

End at: 2019-03-19 09:00:23

Local clock offset: -4.835 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2019-03-19 10:43:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.01 Mbit/s

95th percentile per-packet one-way delay: 10.843 ms

Loss rate: 0.08%

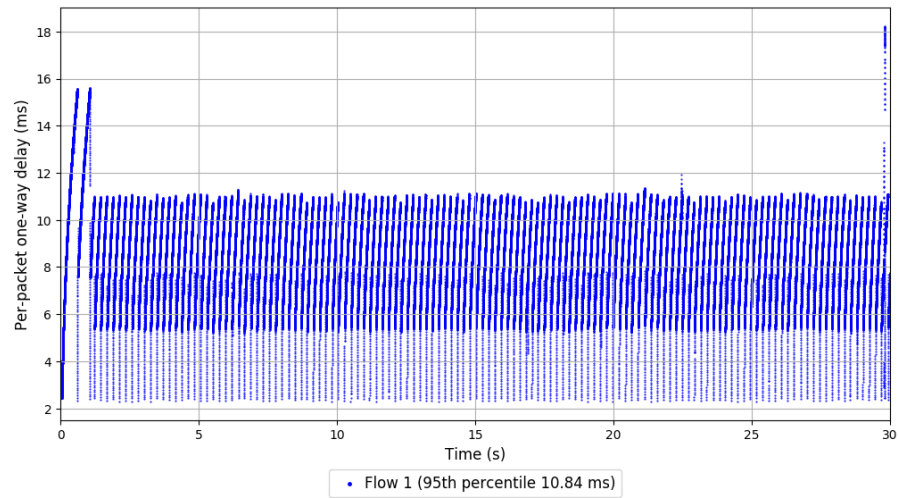
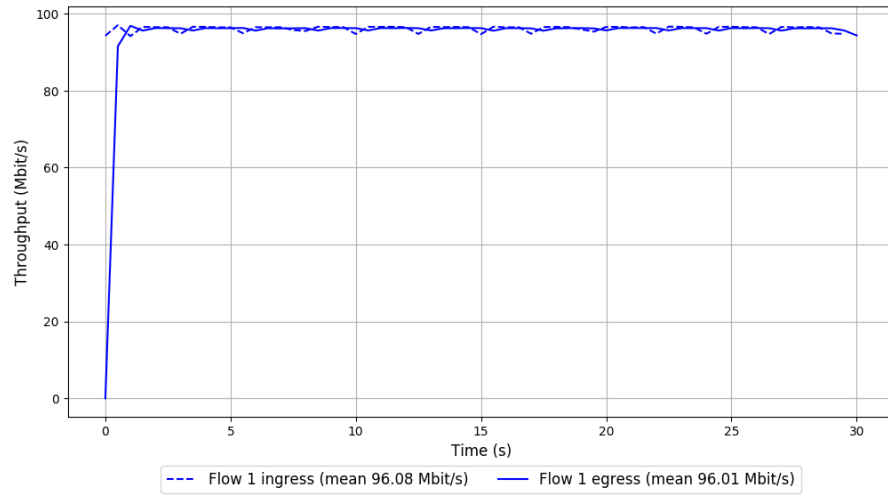
-- Flow 1:

Average throughput: 96.01 Mbit/s

95th percentile per-packet one-way delay: 10.843 ms

Loss rate: 0.08%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-03-19 09:23:37

End at: 2019-03-19 09:24:07

Local clock offset: -6.787 ms

Remote clock offset: 0.179 ms

Below is generated by plot.py at 2019-03-19 10:43:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.61 Mbit/s

95th percentile per-packet one-way delay: 10.071 ms

Loss rate: 0.08%

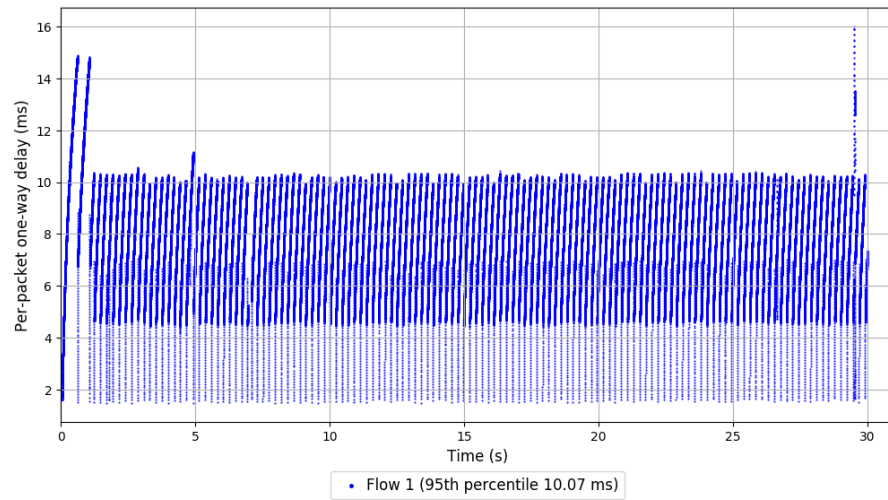
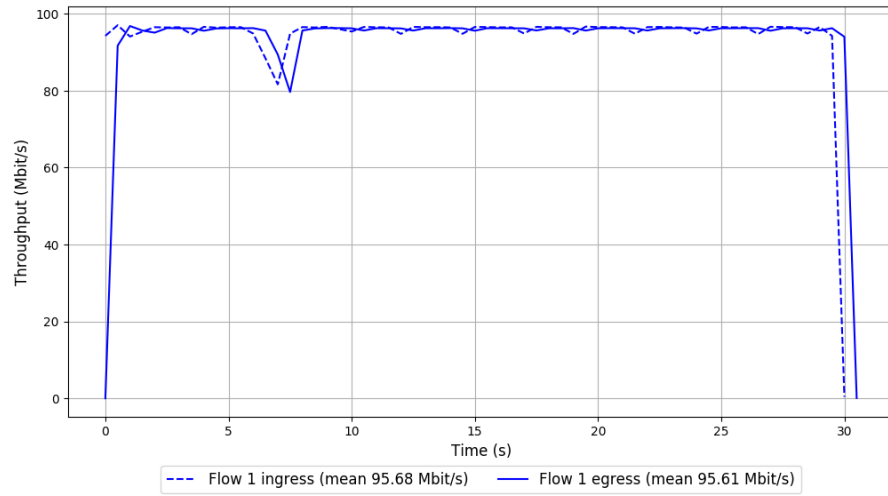
-- Flow 1:

Average throughput: 95.61 Mbit/s

95th percentile per-packet one-way delay: 10.071 ms

Loss rate: 0.08%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-03-19 09:47:21

End at: 2019-03-19 09:47:51

Local clock offset: -7.075 ms

Remote clock offset: 0.306 ms

Below is generated by plot.py at 2019-03-19 10:44:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.02 Mbit/s

95th percentile per-packet one-way delay: 10.902 ms

Loss rate: 0.08%

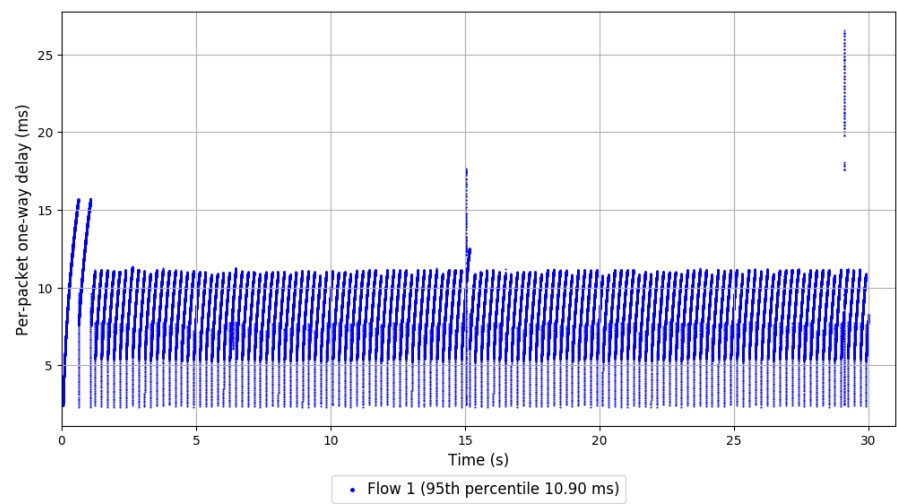
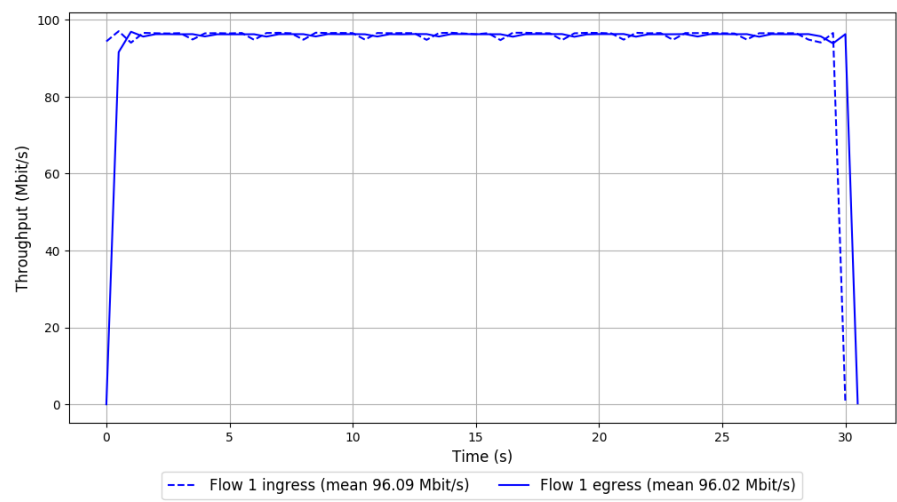
-- Flow 1:

Average throughput: 96.02 Mbit/s

95th percentile per-packet one-way delay: 10.902 ms

Loss rate: 0.08%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-03-19 10:11:04

End at: 2019-03-19 10:11:34

Local clock offset: -7.651 ms

Remote clock offset: 0.487 ms

Below is generated by plot.py at 2019-03-19 10:44:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.90 Mbit/s

95th percentile per-packet one-way delay: 10.555 ms

Loss rate: 0.08%

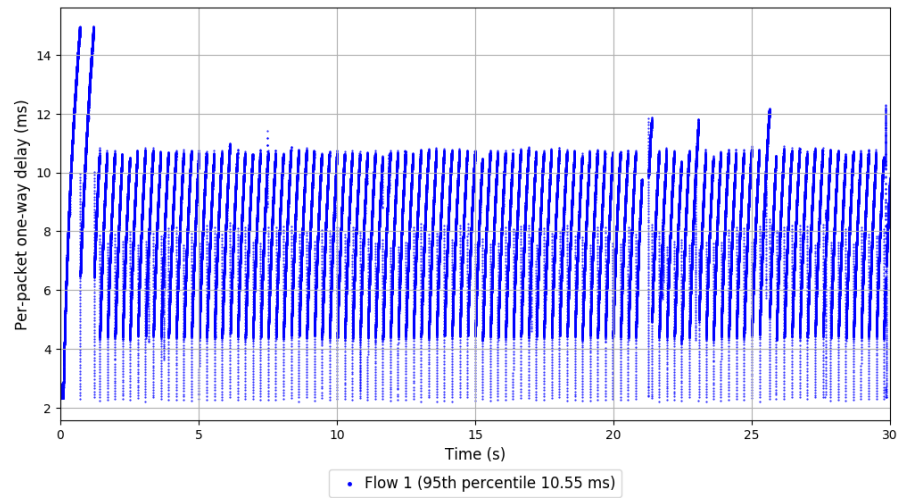
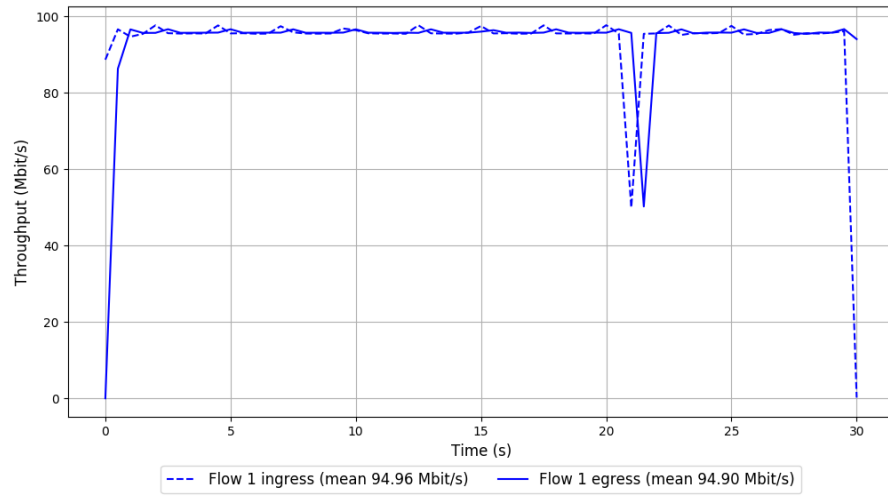
-- Flow 1:

Average throughput: 94.90 Mbit/s

95th percentile per-packet one-way delay: 10.555 ms

Loss rate: 0.08%

Run 5: Report of LEDBAT — Data Link

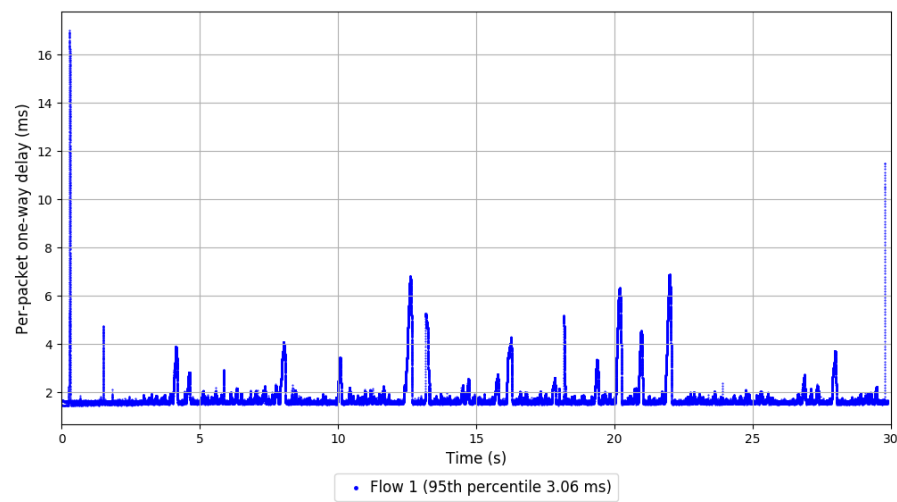
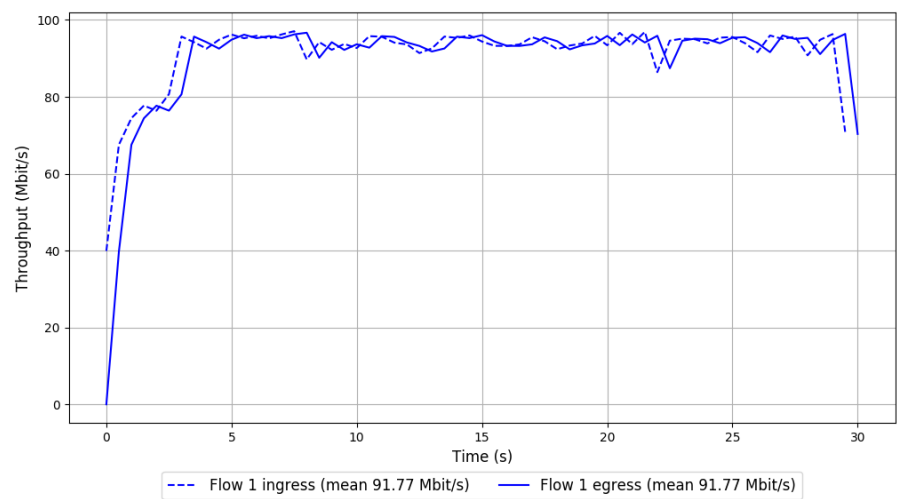


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-03-19 08:43:59
End at: 2019-03-19 08:44:30
Local clock offset: -5.333 ms
Remote clock offset: -0.19 ms

# Below is generated by plot.py at 2019-03-19 10:44:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.77 Mbit/s
95th percentile per-packet one-way delay: 3.058 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 91.77 Mbit/s
95th percentile per-packet one-way delay: 3.058 ms
Loss rate: 0.02%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-03-19 09:07:42

End at: 2019-03-19 09:08:12

Local clock offset: -5.658 ms

Remote clock offset: 0.044 ms

Below is generated by plot.py at 2019-03-19 10:44:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.04 Mbit/s

95th percentile per-packet one-way delay: 2.597 ms

Loss rate: 0.02%

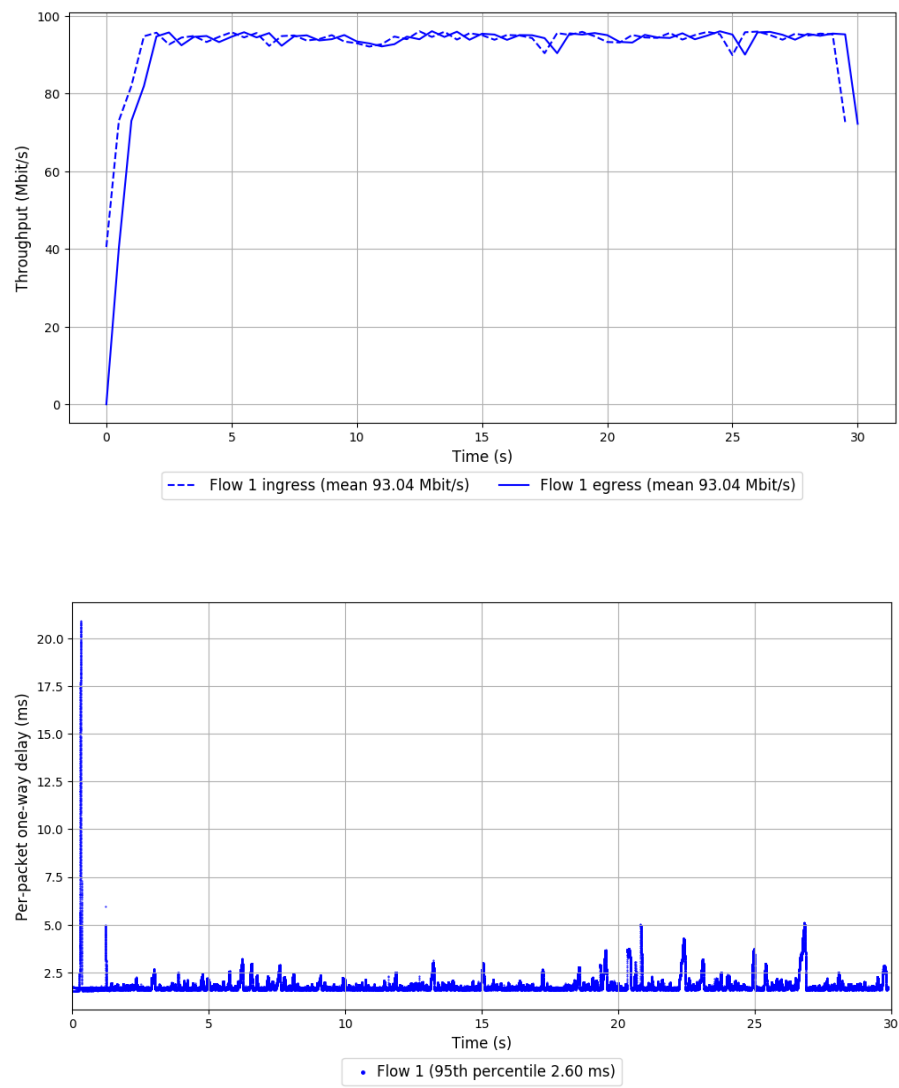
-- Flow 1:

Average throughput: 93.04 Mbit/s

95th percentile per-packet one-way delay: 2.597 ms

Loss rate: 0.02%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-03-19 09:31:28

End at: 2019-03-19 09:31:58

Local clock offset: -6.506 ms

Remote clock offset: 0.164 ms

Below is generated by plot.py at 2019-03-19 10:44:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.48 Mbit/s

95th percentile per-packet one-way delay: 3.088 ms

Loss rate: 0.01%

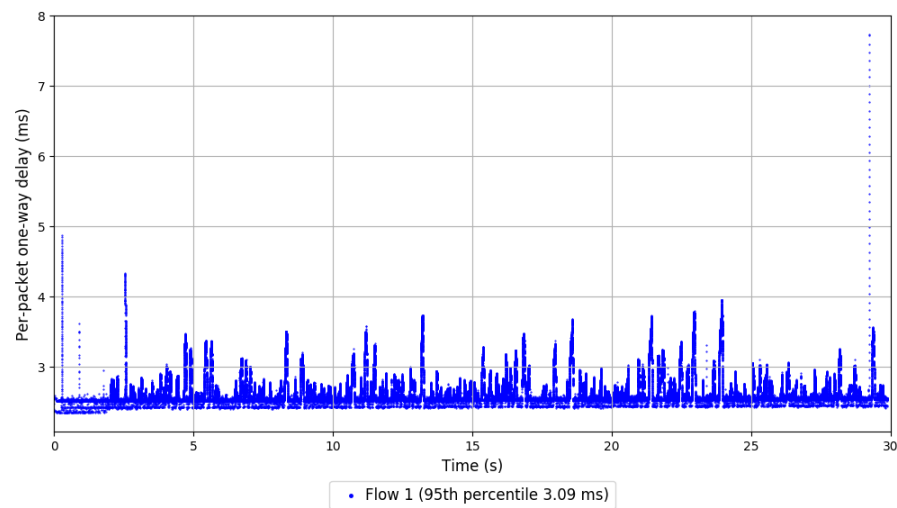
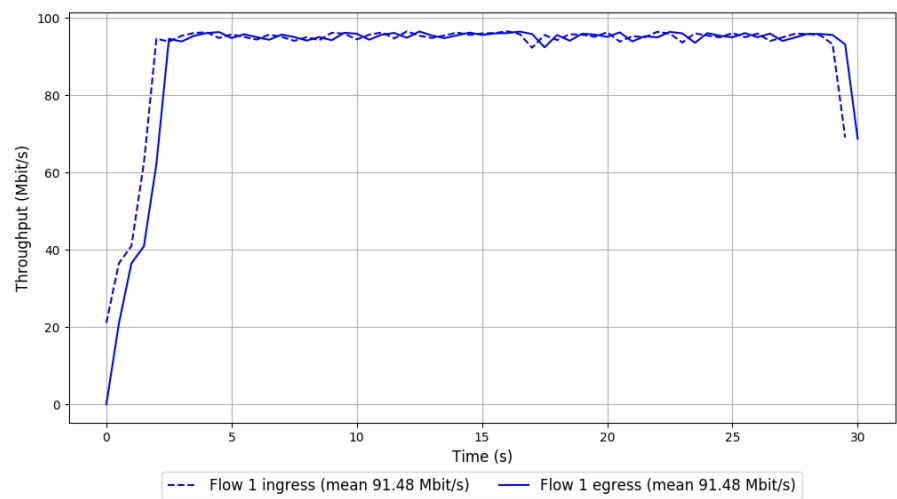
-- Flow 1:

Average throughput: 91.48 Mbit/s

95th percentile per-packet one-way delay: 3.088 ms

Loss rate: 0.01%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-03-19 09:55:11

End at: 2019-03-19 09:55:41

Local clock offset: -8.089 ms

Remote clock offset: 0.325 ms

Below is generated by plot.py at 2019-03-19 10:44:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.06 Mbit/s

95th percentile per-packet one-way delay: 2.242 ms

Loss rate: 0.01%

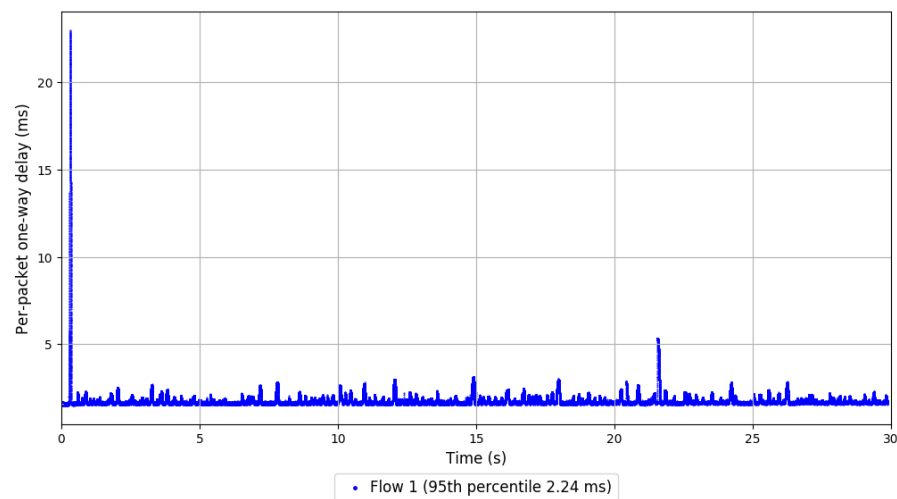
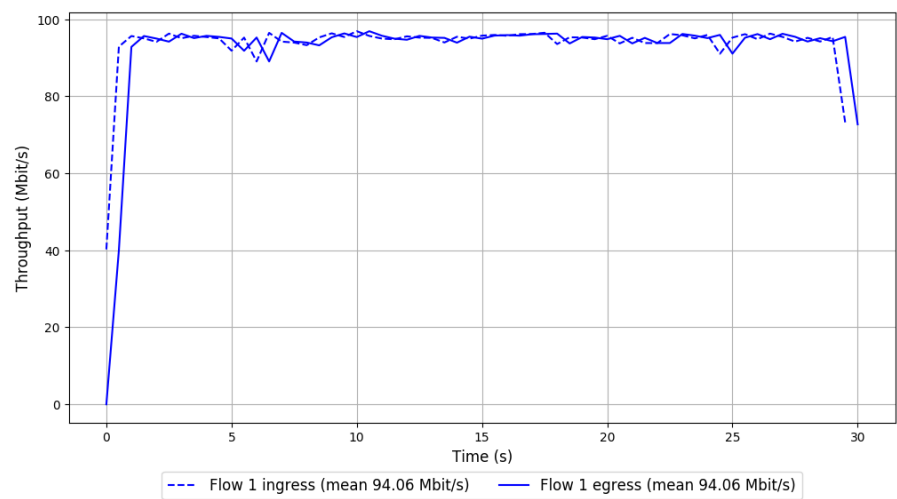
-- Flow 1:

Average throughput: 94.06 Mbit/s

95th percentile per-packet one-way delay: 2.242 ms

Loss rate: 0.01%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-03-19 10:18:55

End at: 2019-03-19 10:19:25

Local clock offset: -7.17 ms

Remote clock offset: 0.484 ms

Below is generated by plot.py at 2019-03-19 10:45:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.01 Mbit/s

95th percentile per-packet one-way delay: 3.016 ms

Loss rate: 0.02%

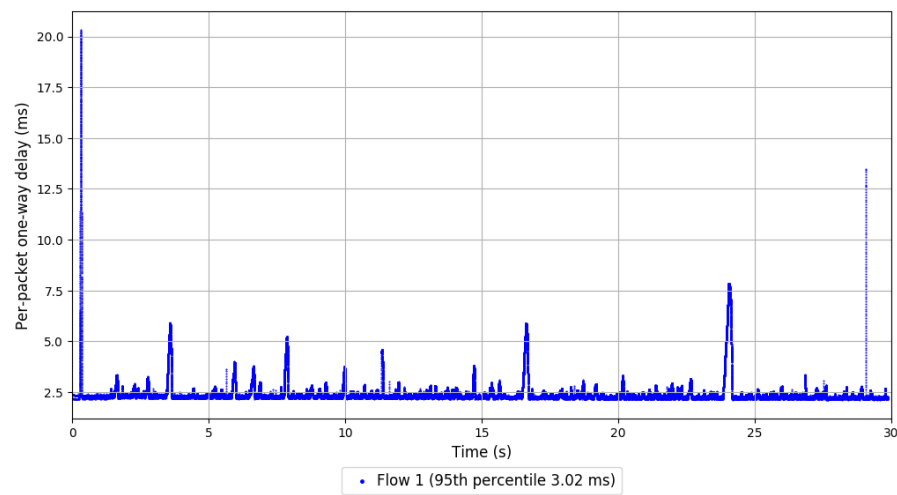
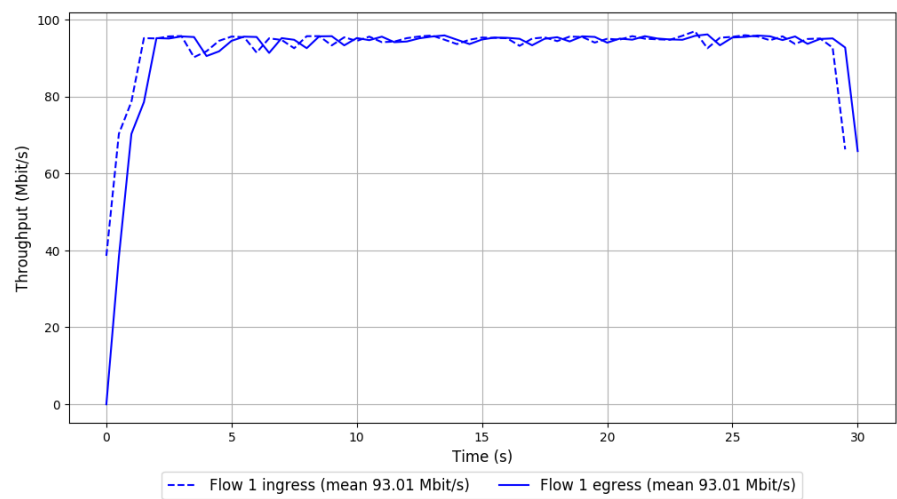
-- Flow 1:

Average throughput: 93.01 Mbit/s

95th percentile per-packet one-way delay: 3.016 ms

Loss rate: 0.02%

Run 5: Report of PCC-Allegro — Data Link

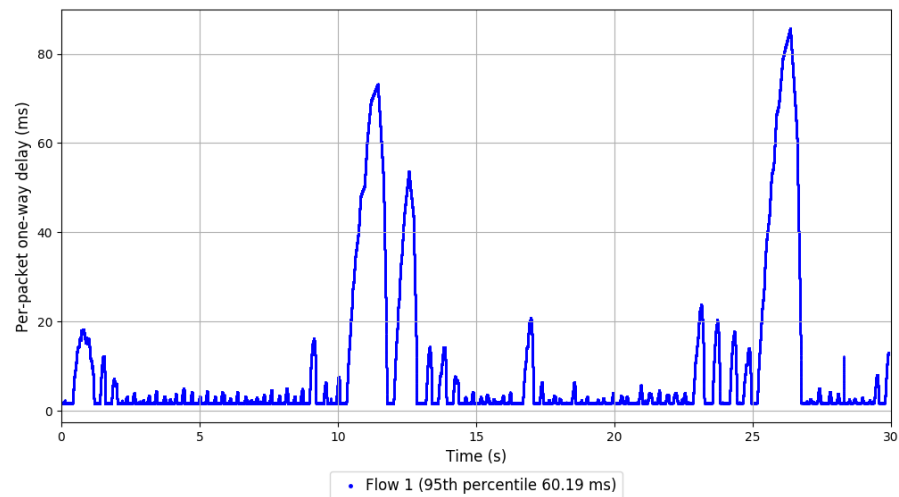
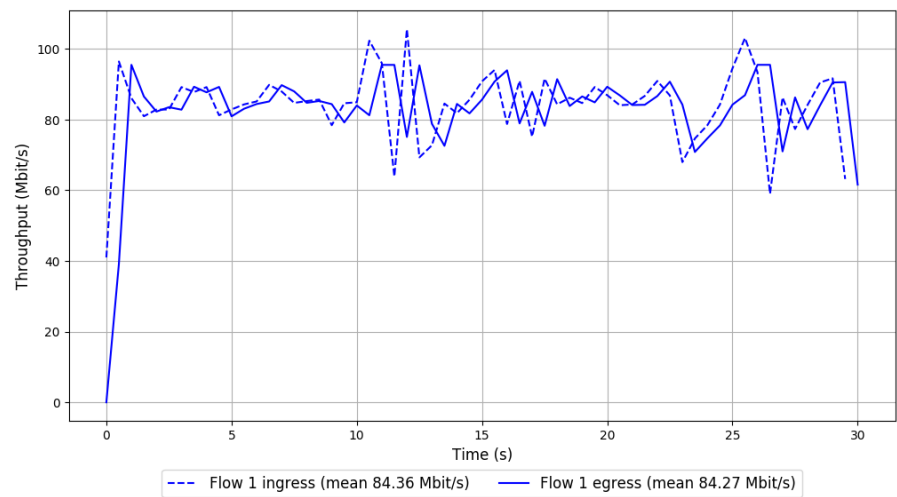


Run 1: Statistics of PCC-Expr

Start at: 2019-03-19 08:48:27
End at: 2019-03-19 08:48:57
Local clock offset: -5.342 ms
Remote clock offset: -0.132 ms

Below is generated by plot.py at 2019-03-19 10:45:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.27 Mbit/s
95th percentile per-packet one-way delay: 60.186 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 84.27 Mbit/s
95th percentile per-packet one-way delay: 60.186 ms
Loss rate: 0.13%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-03-19 09:12:10

End at: 2019-03-19 09:12:40

Local clock offset: -5.65 ms

Remote clock offset: 0.128 ms

Below is generated by plot.py at 2019-03-19 10:46:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.62 Mbit/s

95th percentile per-packet one-way delay: 661.327 ms

Loss rate: 5.81%

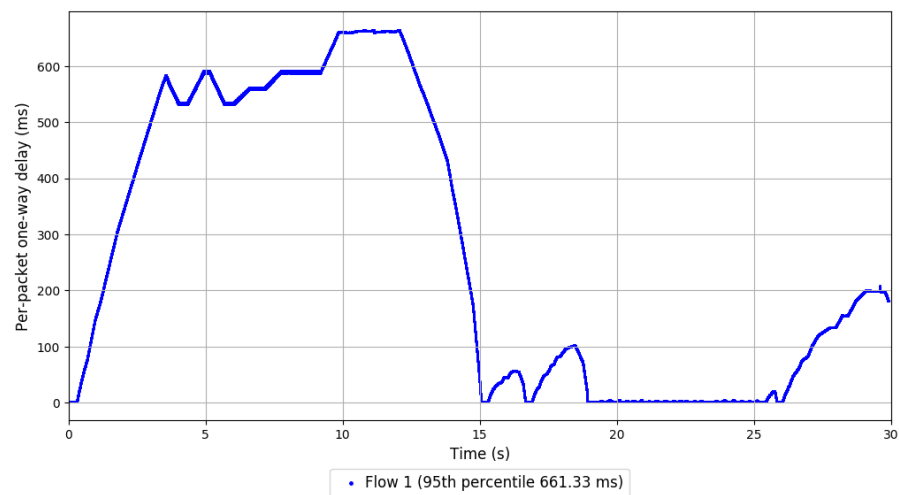
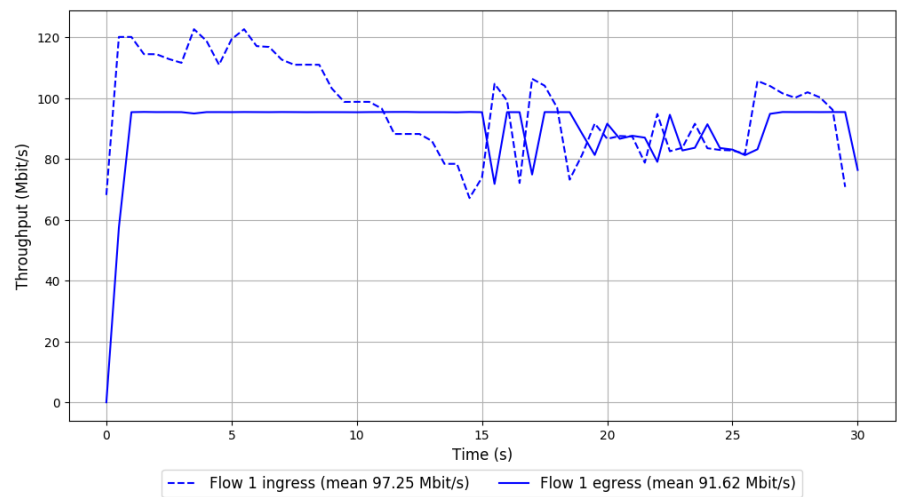
-- Flow 1:

Average throughput: 91.62 Mbit/s

95th percentile per-packet one-way delay: 661.327 ms

Loss rate: 5.81%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-03-19 09:35:55

End at: 2019-03-19 09:36:25

Local clock offset: -7.48 ms

Remote clock offset: 0.3 ms

Below is generated by plot.py at 2019-03-19 10:46:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.06 Mbit/s

95th percentile per-packet one-way delay: 94.155 ms

Loss rate: 0.74%

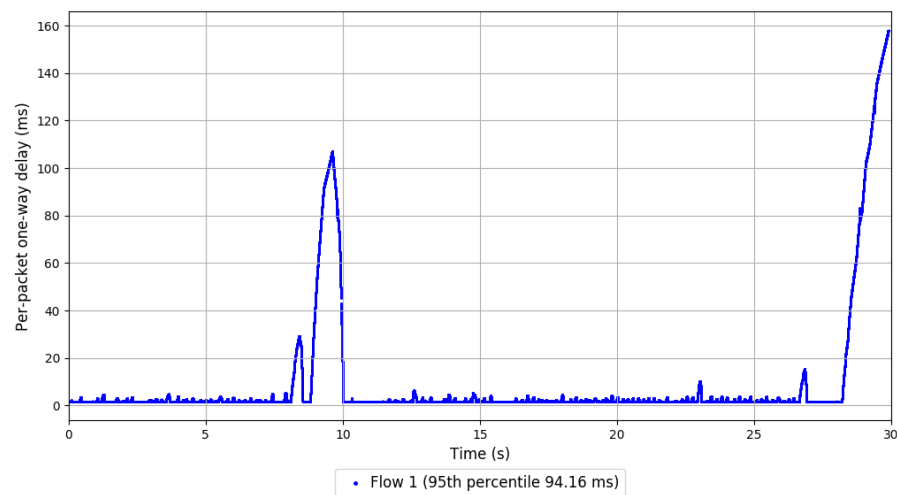
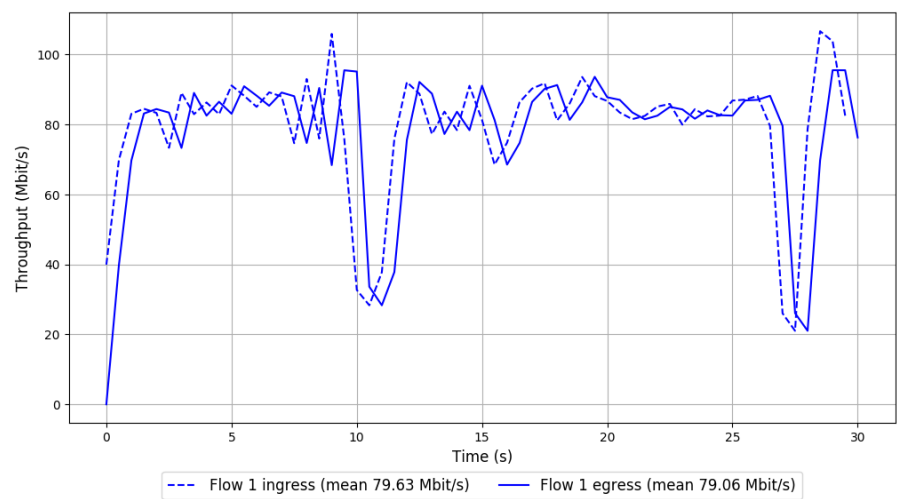
-- Flow 1:

Average throughput: 79.06 Mbit/s

95th percentile per-packet one-way delay: 94.155 ms

Loss rate: 0.74%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-03-19 09:59:37

End at: 2019-03-19 10:00:07

Local clock offset: -7.376 ms

Remote clock offset: 0.47 ms

Below is generated by plot.py at 2019-03-19 10:46:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.15 Mbit/s

95th percentile per-packet one-way delay: 635.186 ms

Loss rate: 8.50%

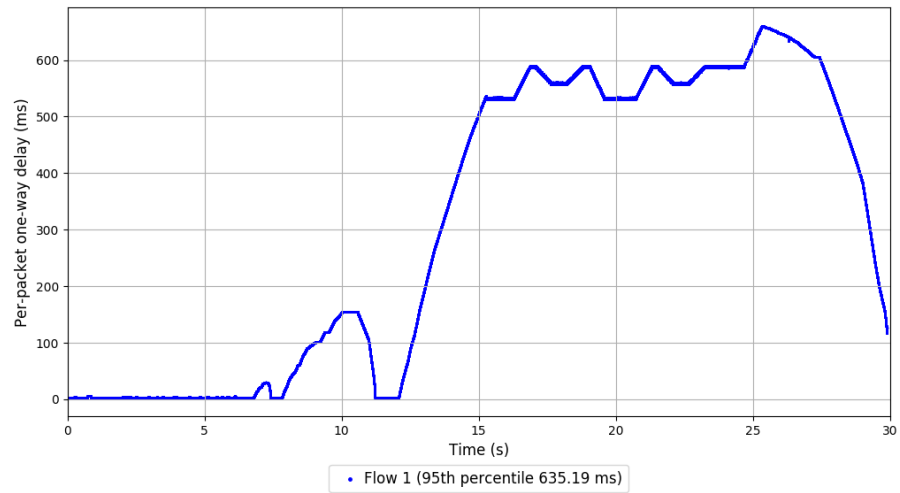
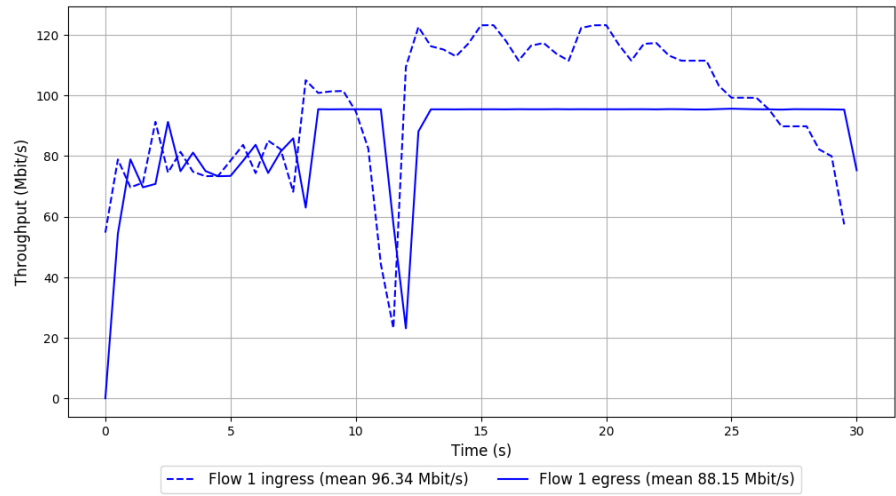
-- Flow 1:

Average throughput: 88.15 Mbit/s

95th percentile per-packet one-way delay: 635.186 ms

Loss rate: 8.50%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-03-19 10:23:22

End at: 2019-03-19 10:23:52

Local clock offset: -7.292 ms

Remote clock offset: 0.563 ms

Below is generated by plot.py at 2019-03-19 10:46:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.67 Mbit/s

95th percentile per-packet one-way delay: 361.851 ms

Loss rate: 0.35%

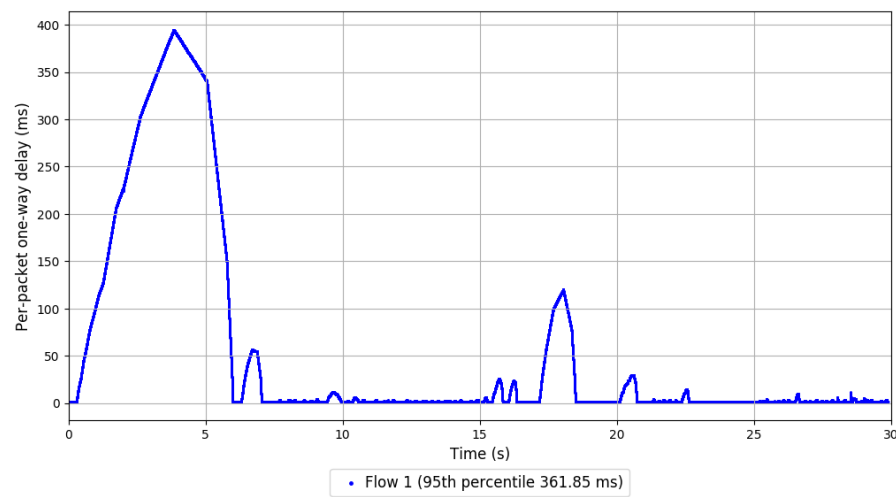
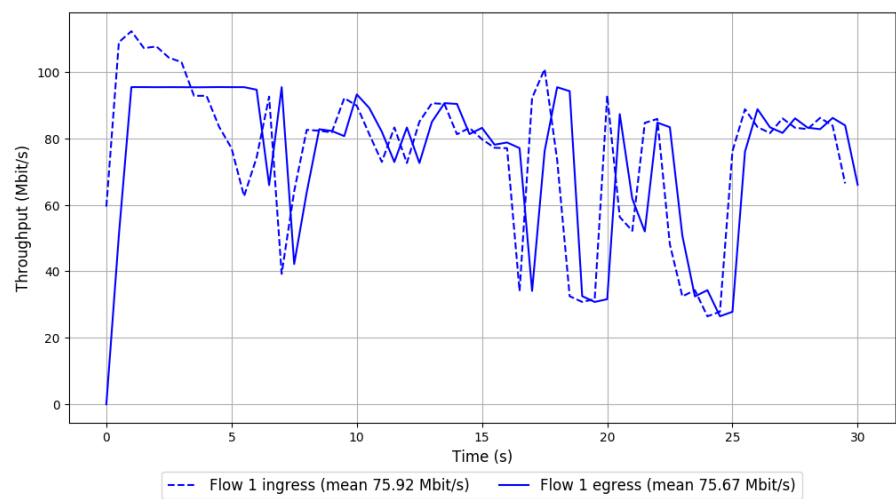
-- Flow 1:

Average throughput: 75.67 Mbit/s

95th percentile per-packet one-way delay: 361.851 ms

Loss rate: 0.35%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-03-19 08:40:34

End at: 2019-03-19 08:41:04

Local clock offset: -4.524 ms

Remote clock offset: -0.267 ms

Below is generated by plot.py at 2019-03-19 10:46:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.38 Mbit/s

95th percentile per-packet one-way delay: 8.642 ms

Loss rate: 0.02%

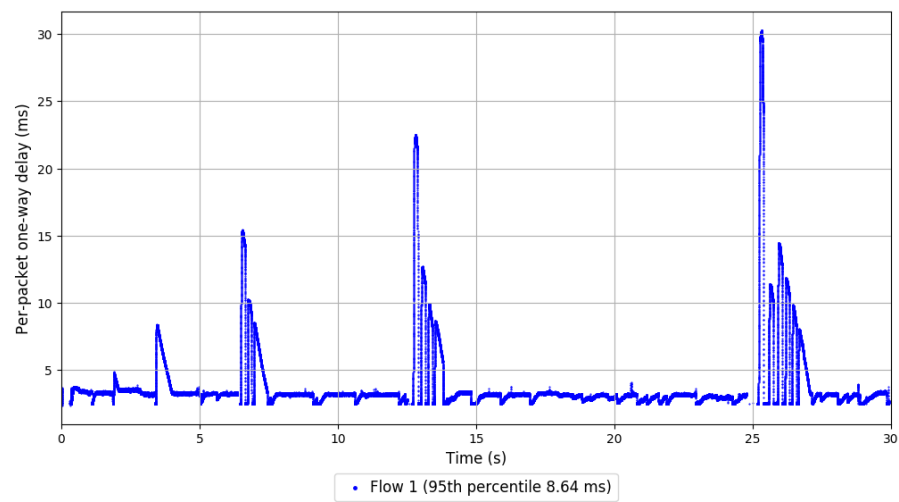
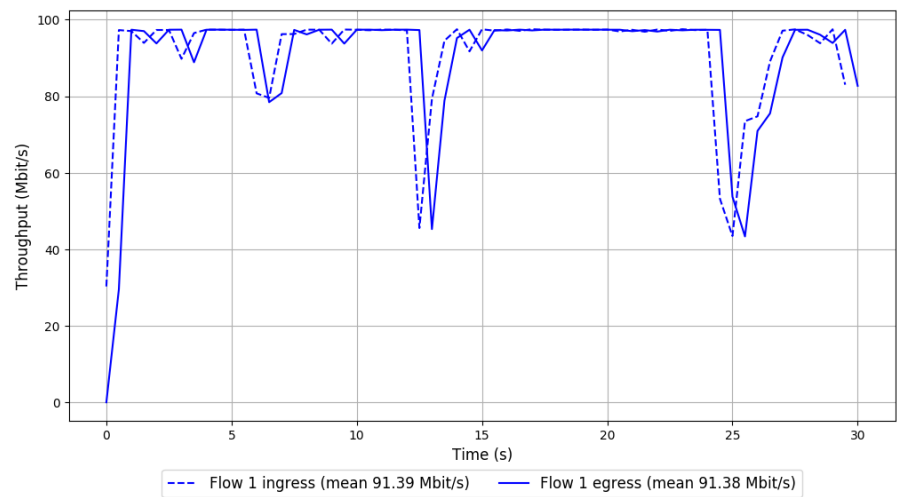
-- Flow 1:

Average throughput: 91.38 Mbit/s

95th percentile per-packet one-way delay: 8.642 ms

Loss rate: 0.02%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-03-19 09:04:19

End at: 2019-03-19 09:04:49

Local clock offset: -5.716 ms

Remote clock offset: 0.123 ms

Below is generated by plot.py at 2019-03-19 10:46:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.52 Mbit/s

95th percentile per-packet one-way delay: 8.562 ms

Loss rate: 0.02%

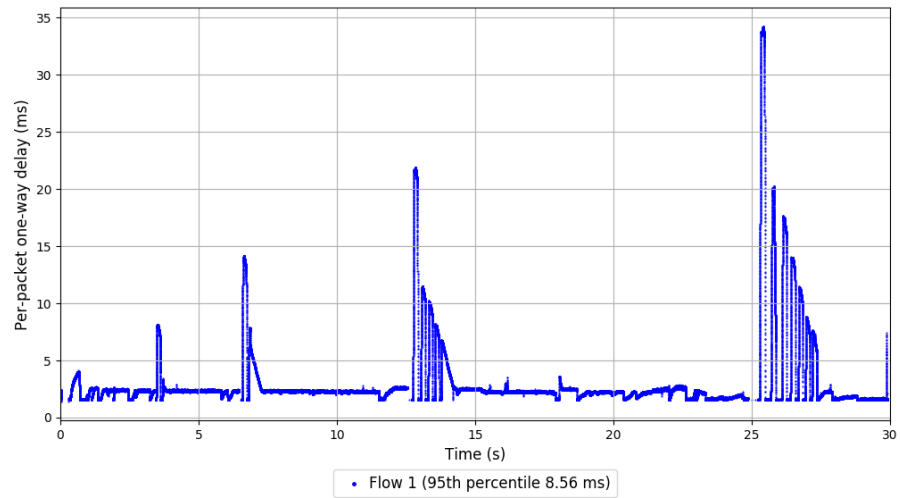
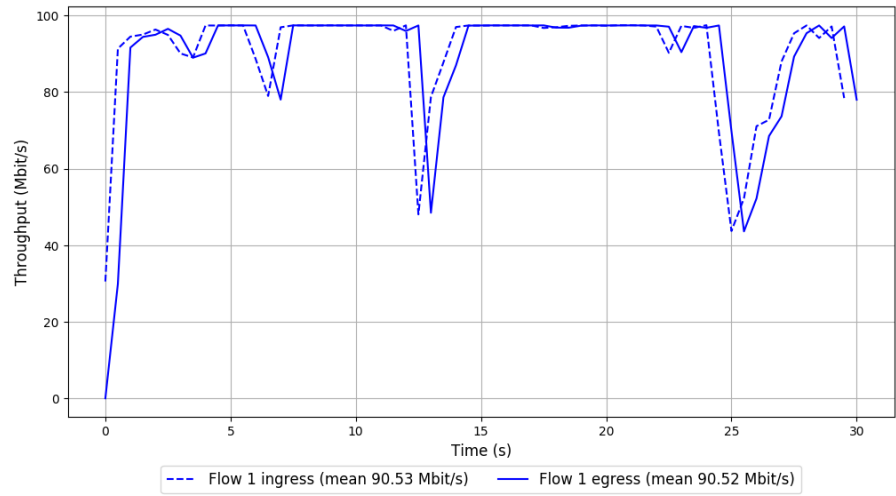
-- Flow 1:

Average throughput: 90.52 Mbit/s

95th percentile per-packet one-way delay: 8.562 ms

Loss rate: 0.02%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-03-19 09:28:02

End at: 2019-03-19 09:28:32

Local clock offset: -7.078 ms

Remote clock offset: 0.219 ms

Below is generated by plot.py at 2019-03-19 10:46:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.32 Mbit/s

95th percentile per-packet one-way delay: 8.291 ms

Loss rate: 0.02%

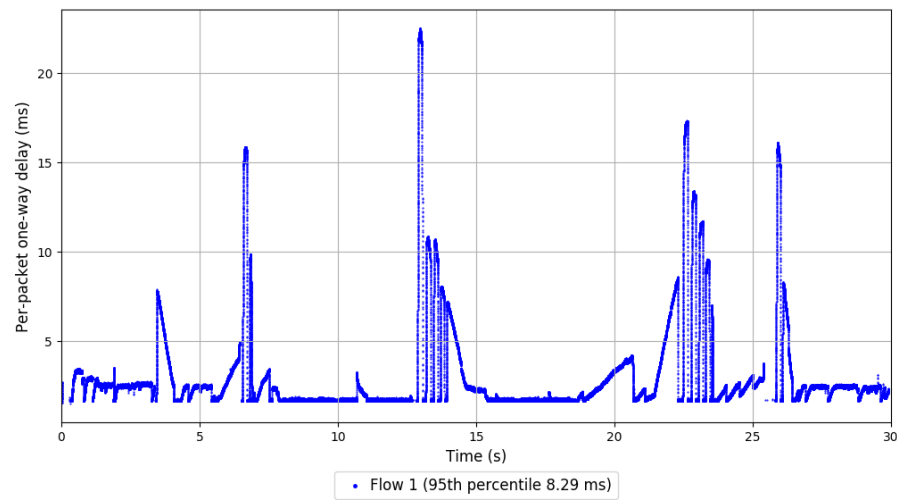
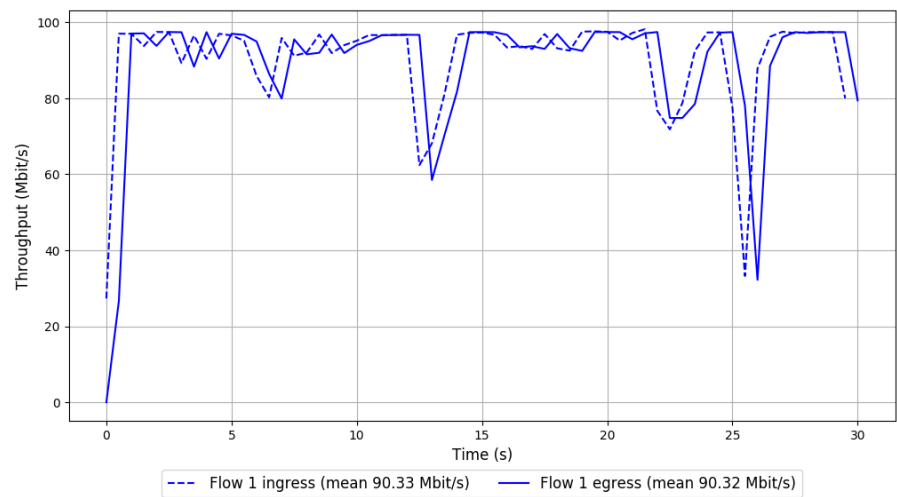
-- Flow 1:

Average throughput: 90.32 Mbit/s

95th percentile per-packet one-way delay: 8.291 ms

Loss rate: 0.02%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-03-19 09:51:47

End at: 2019-03-19 09:52:17

Local clock offset: -7.259 ms

Remote clock offset: 0.356 ms

Below is generated by plot.py at 2019-03-19 10:47:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.31 Mbit/s

95th percentile per-packet one-way delay: 9.039 ms

Loss rate: 0.03%

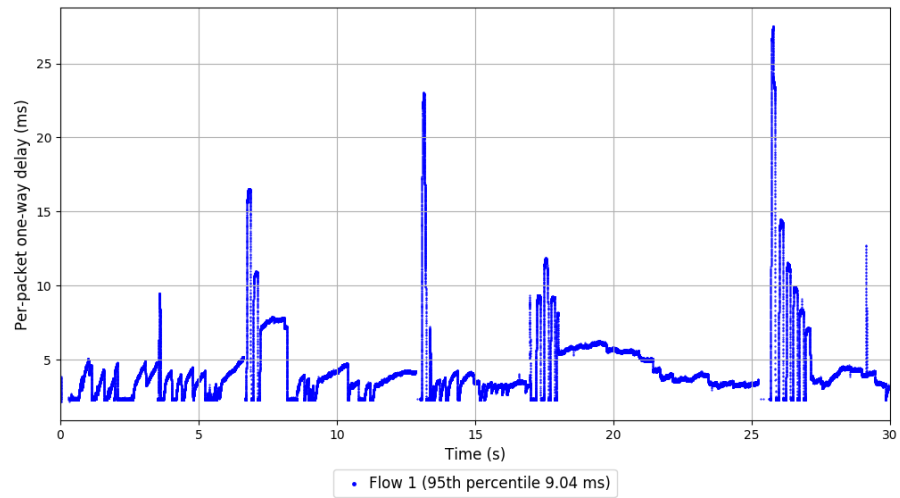
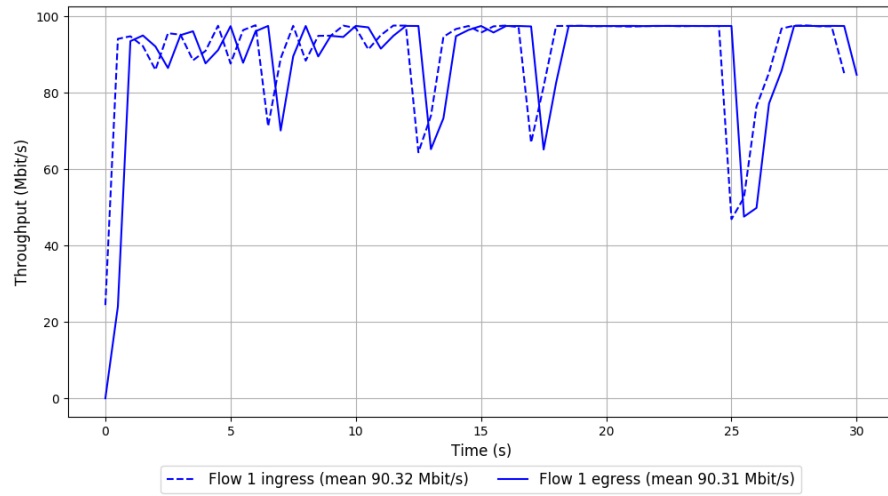
-- Flow 1:

Average throughput: 90.31 Mbit/s

95th percentile per-packet one-way delay: 9.039 ms

Loss rate: 0.03%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-03-19 10:15:30

End at: 2019-03-19 10:16:00

Local clock offset: -8.567 ms

Remote clock offset: 0.428 ms

Below is generated by plot.py at 2019-03-19 10:47:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.53 Mbit/s

95th percentile per-packet one-way delay: 7.537 ms

Loss rate: 0.02%

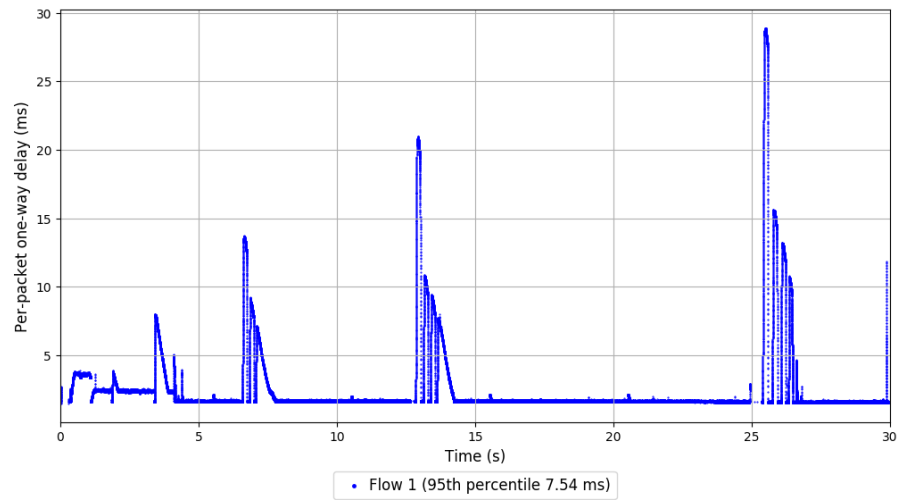
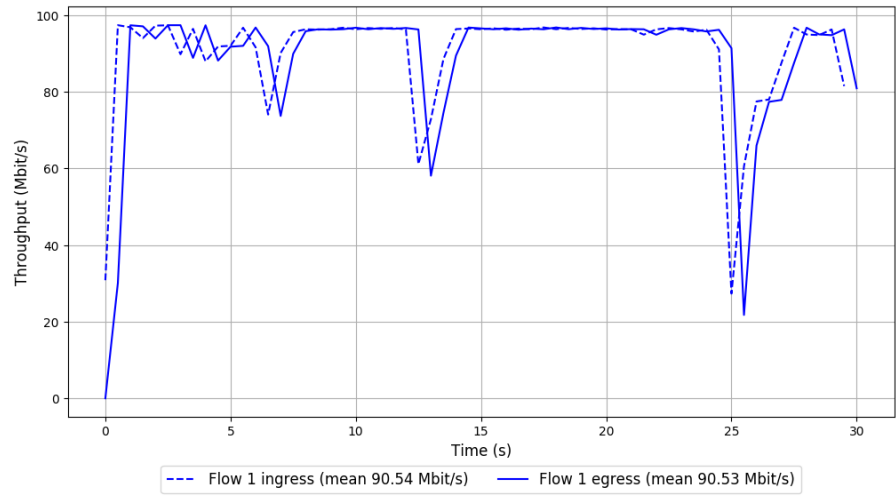
-- Flow 1:

Average throughput: 90.53 Mbit/s

95th percentile per-packet one-way delay: 7.537 ms

Loss rate: 0.02%

Run 5: Report of QUIC Cubic — Data Link

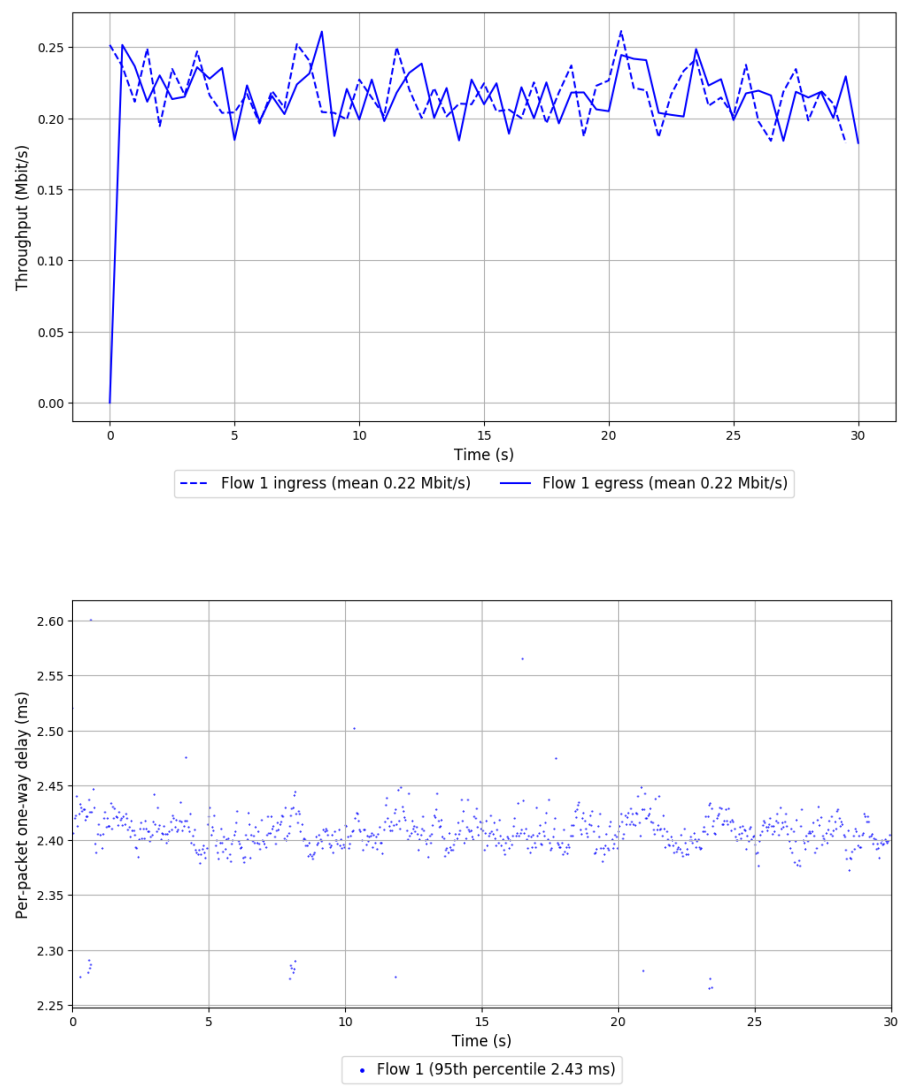


Run 1: Statistics of SCReAM

Start at: 2019-03-19 08:45:06
End at: 2019-03-19 08:45:36
Local clock offset: -4.488 ms
Remote clock offset: -0.149 ms

Below is generated by plot.py at 2019-03-19 10:47:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.430 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.430 ms
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-03-19 09:08:49

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

Local clock offset: -5.722 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2019-03-19 10:47:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.666 ms

Loss rate: 0.00%

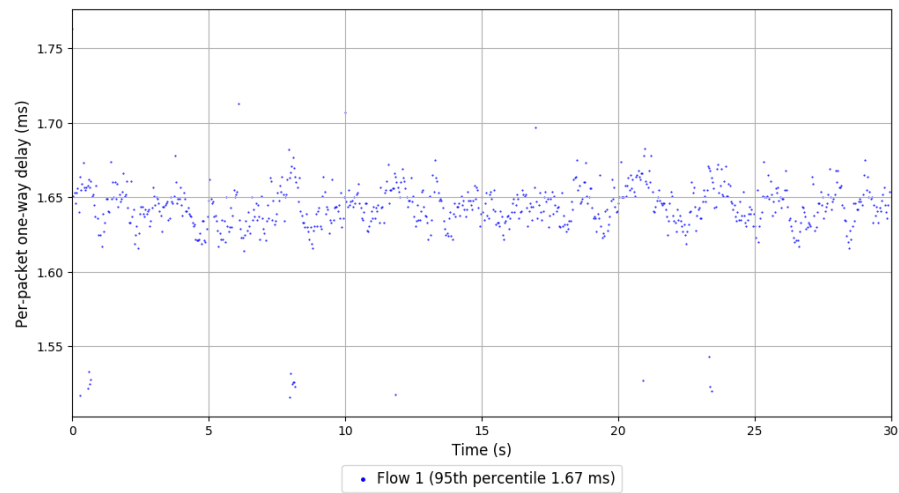
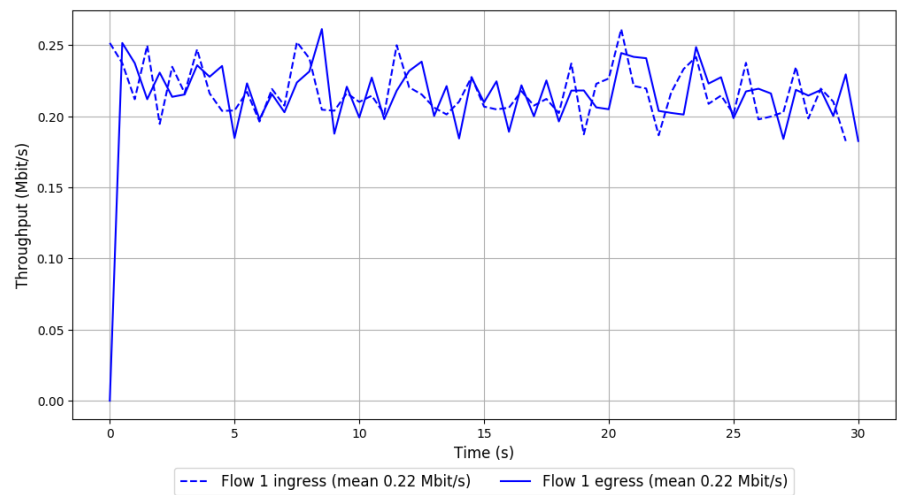
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.666 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-03-19 09:32:35

End at: 2019-03-19 09:33:05

Local clock offset: -6.582 ms

Remote clock offset: 0.251 ms

Below is generated by plot.py at 2019-03-19 10:47:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.454 ms

Loss rate: 0.00%

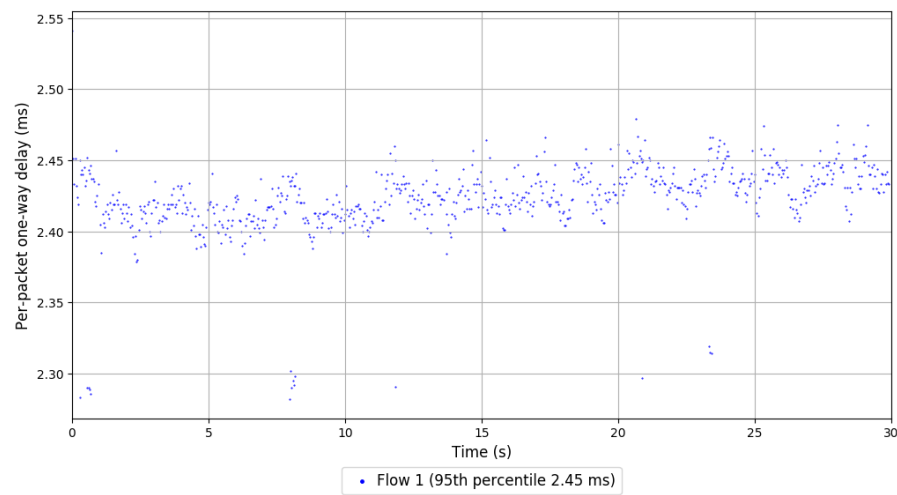
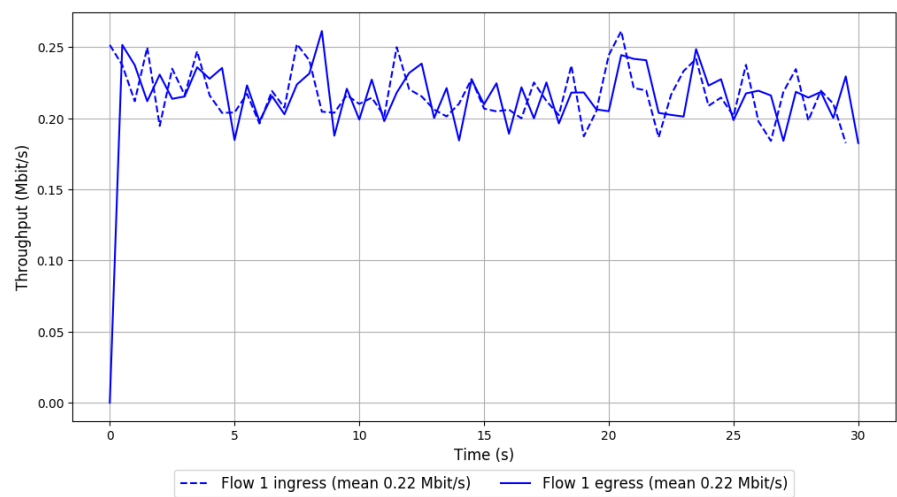
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.454 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-03-19 09:56:18

End at: 2019-03-19 09:56:48

Local clock offset: -7.298 ms

Remote clock offset: 0.347 ms

Below is generated by plot.py at 2019-03-19 10:47:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.470 ms

Loss rate: 0.00%

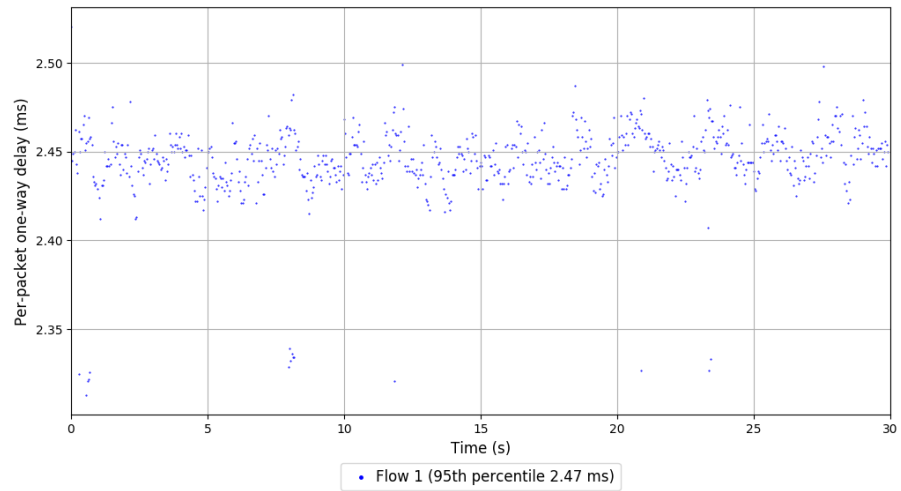
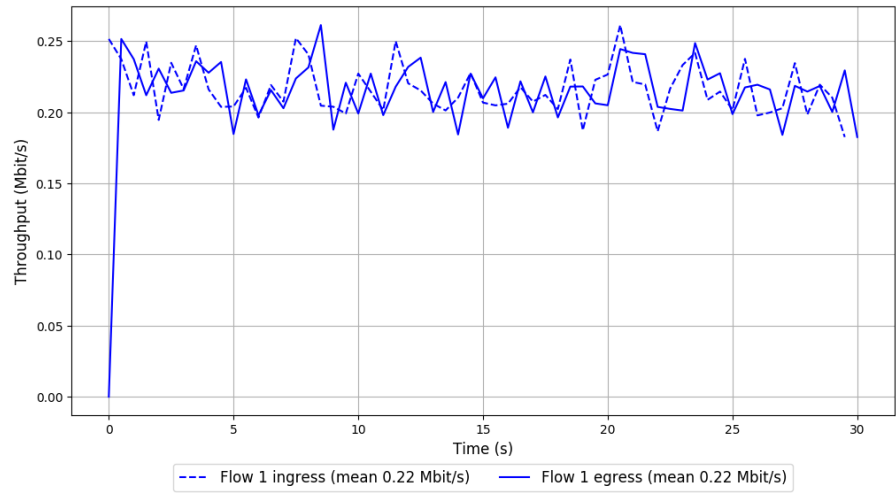
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.470 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-03-19 10:20:02

End at: 2019-03-19 10:20:32

Local clock offset: -7.735 ms

Remote clock offset: 0.532 ms

Below is generated by plot.py at 2019-03-19 10:47:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.536 ms

Loss rate: 0.13%

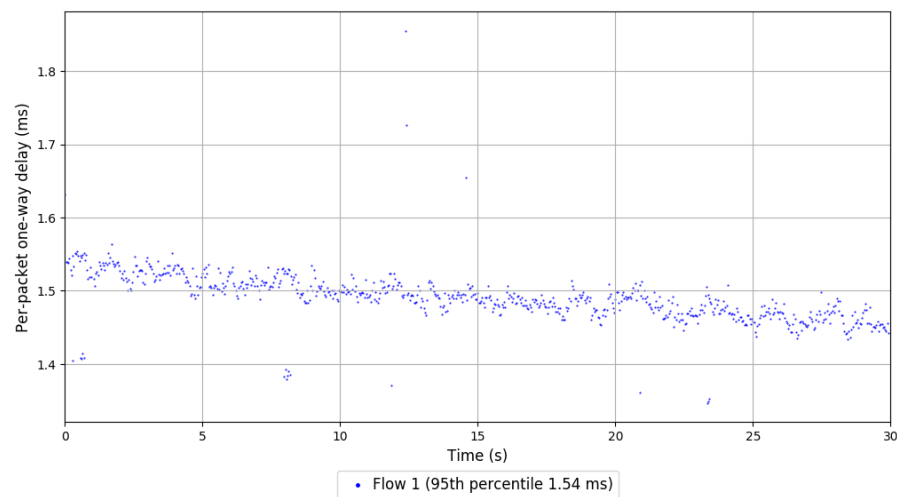
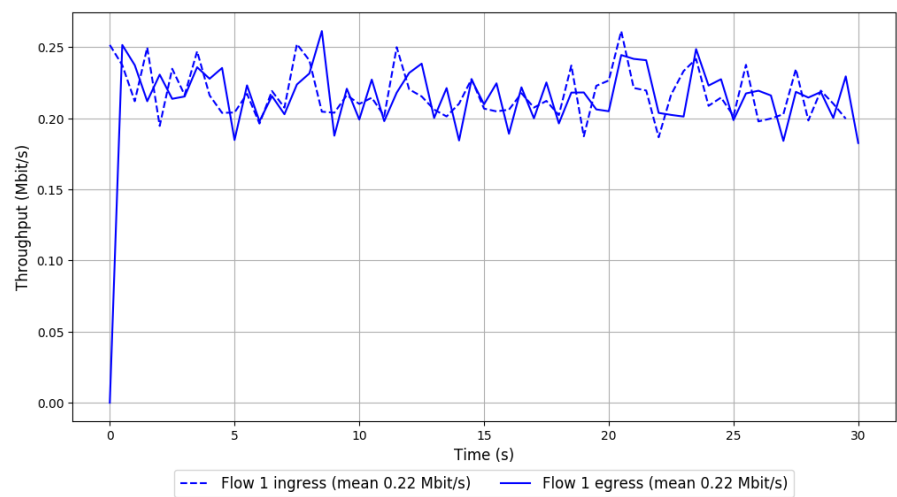
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.536 ms

Loss rate: 0.13%

Run 5: Report of SReAM — Data Link

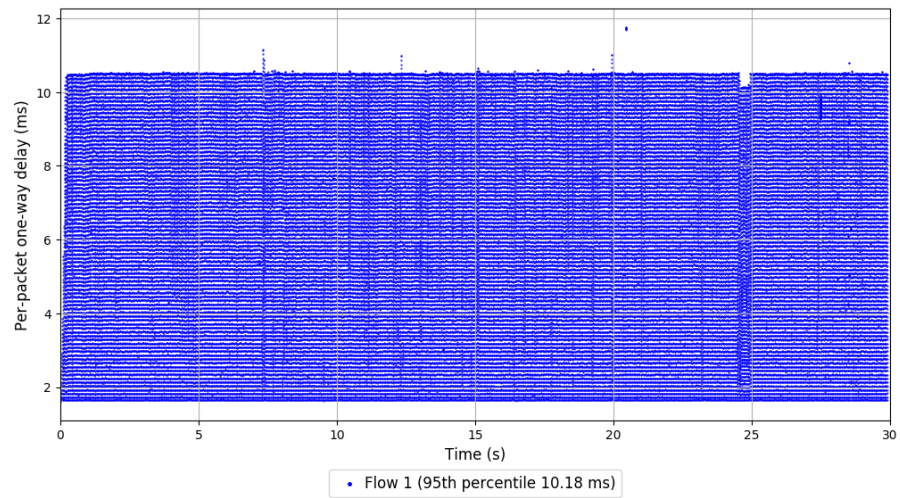
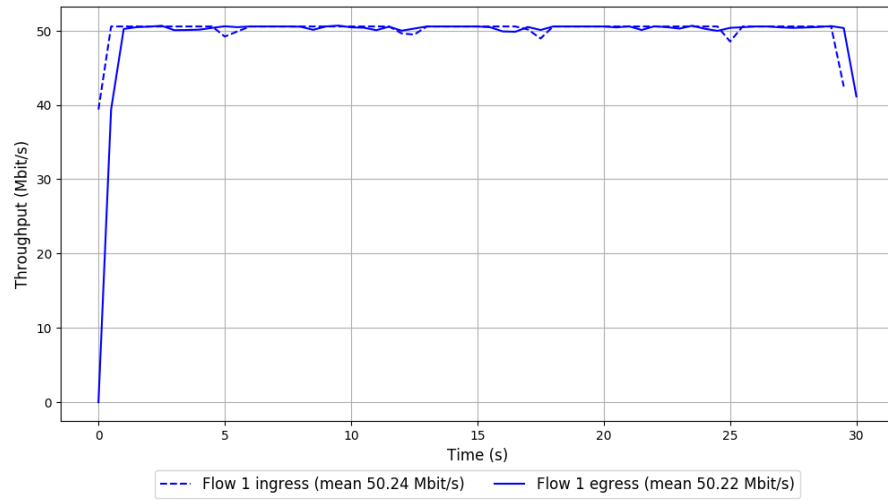


Run 1: Statistics of Sprout

Start at: 2019-03-19 08:37:17
End at: 2019-03-19 08:37:47
Local clock offset: -5.312 ms
Remote clock offset: -0.177 ms

Below is generated by plot.py at 2019-03-19 10:47:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 10.178 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 10.178 ms
Loss rate: 0.07%

Run 1: Report of Sprout — Data Link

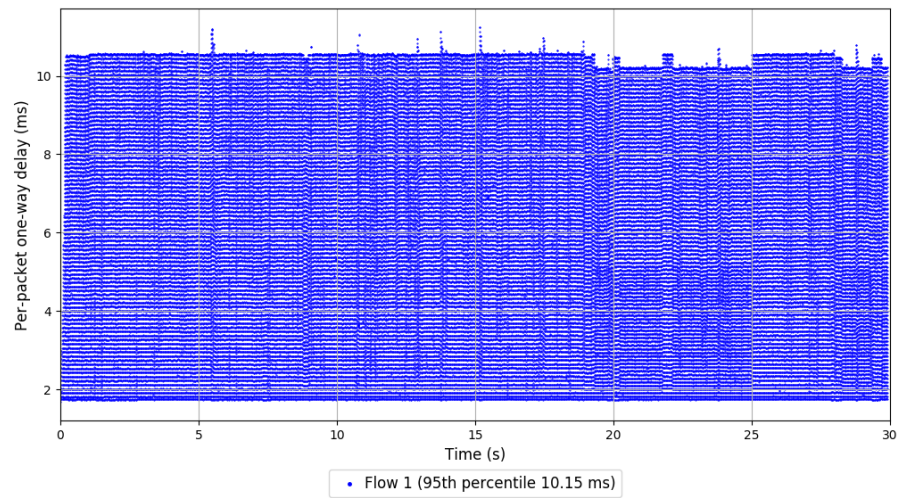
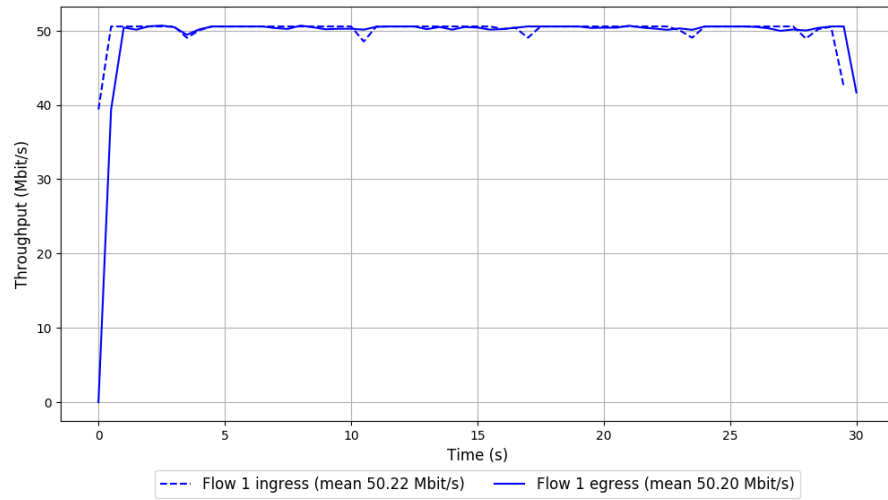


Run 2: Statistics of Sprout

Start at: 2019-03-19 09:01:02
End at: 2019-03-19 09:01:32
Local clock offset: -5.614 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2019-03-19 10:47:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.20 Mbit/s
95th percentile per-packet one-way delay: 10.150 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 50.20 Mbit/s
95th percentile per-packet one-way delay: 10.150 ms
Loss rate: 0.03%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-03-19 09:24:46

End at: 2019-03-19 09:25:16

Local clock offset: -6.819 ms

Remote clock offset: 0.074 ms

Below is generated by plot.py at 2019-03-19 10:47:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.27 Mbit/s

95th percentile per-packet one-way delay: 10.342 ms

Loss rate: 0.03%

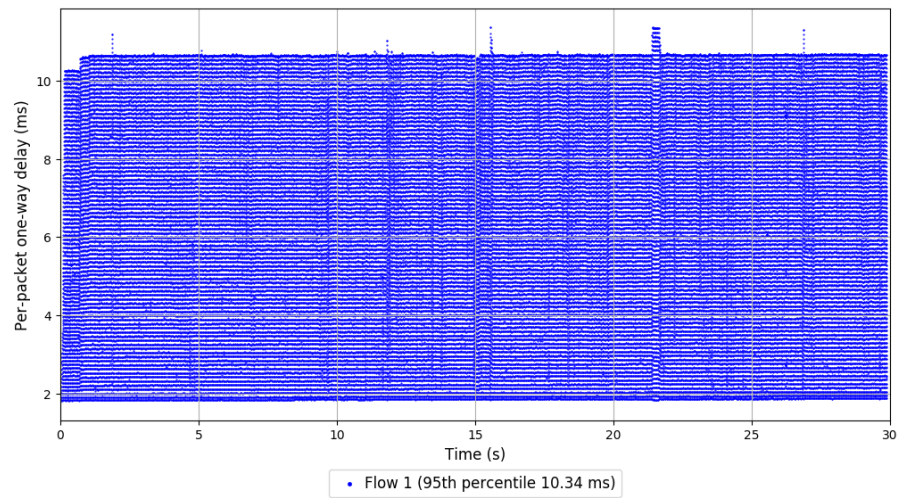
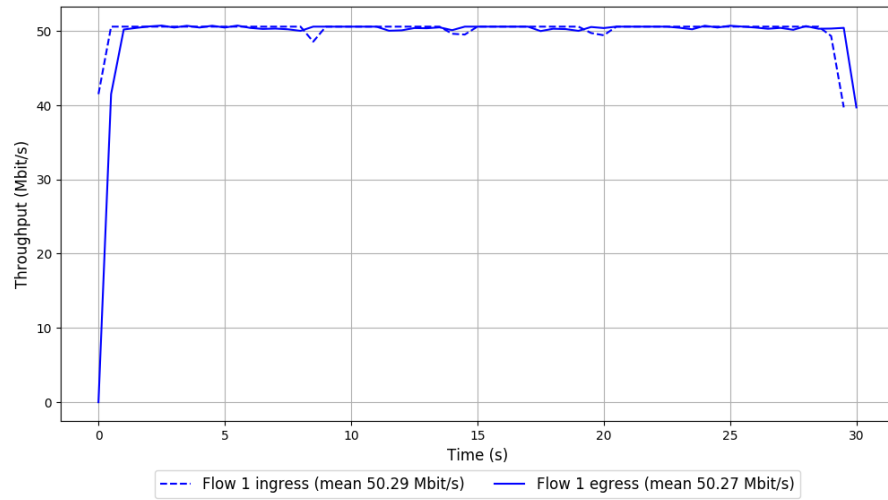
-- Flow 1:

Average throughput: 50.27 Mbit/s

95th percentile per-packet one-way delay: 10.342 ms

Loss rate: 0.03%

Run 3: Report of Sprout — Data Link

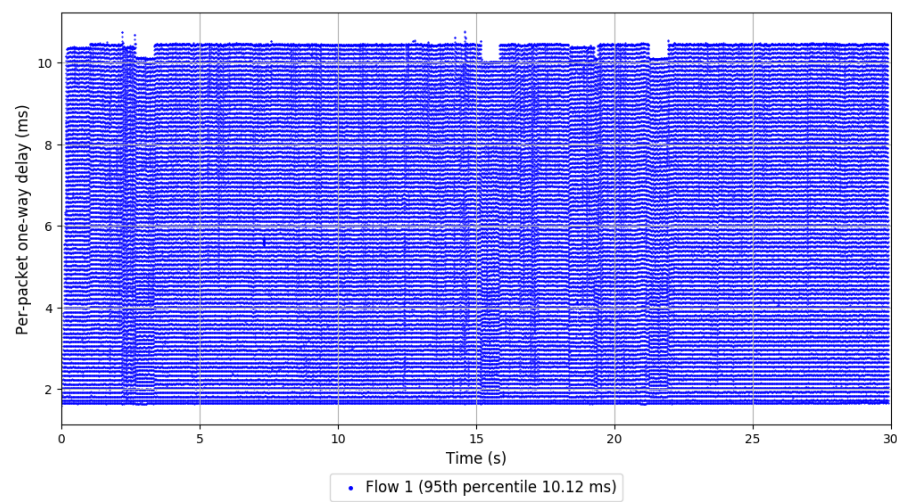
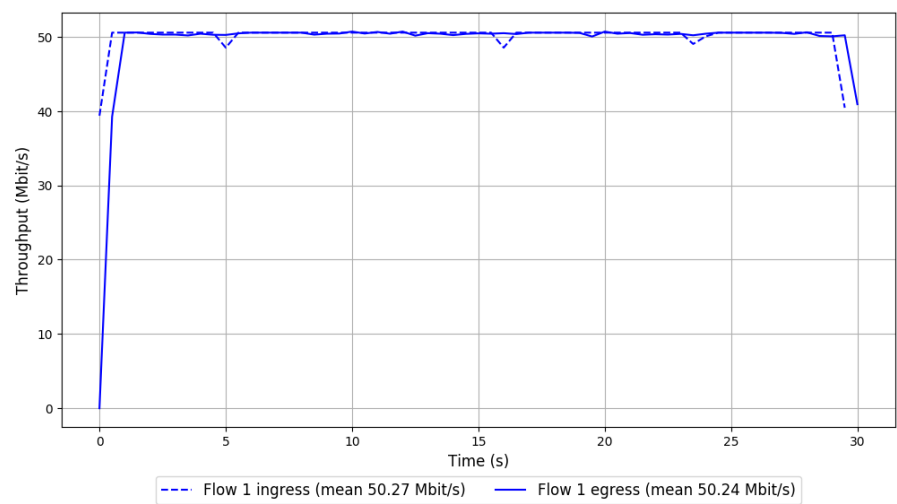


Run 4: Statistics of Sprout

Start at: 2019-03-19 09:48:30
End at: 2019-03-19 09:49:00
Local clock offset: -7.933 ms
Remote clock offset: 0.304 ms

Below is generated by plot.py at 2019-03-19 10:47:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.24 Mbit/s
95th percentile per-packet one-way delay: 10.115 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 50.24 Mbit/s
95th percentile per-packet one-way delay: 10.115 ms
Loss rate: 0.03%

Run 4: Report of Sprout — Data Link

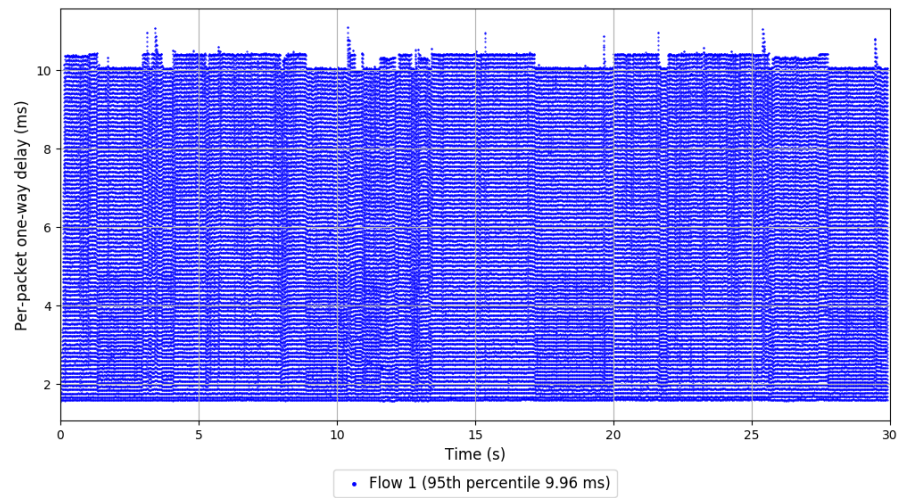
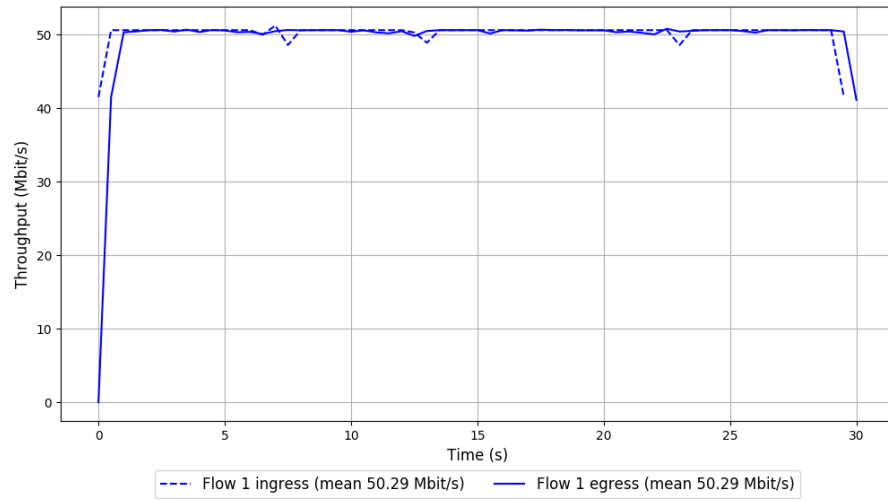


Run 5: Statistics of Sprout

Start at: 2019-03-19 10:12:13
End at: 2019-03-19 10:12:43
Local clock offset: -8.485 ms
Remote clock offset: 0.483 ms

Below is generated by plot.py at 2019-03-19 10:47:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.29 Mbit/s
95th percentile per-packet one-way delay: 9.959 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 50.29 Mbit/s
95th percentile per-packet one-way delay: 9.959 ms
Loss rate: 0.04%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-03-19 08:56:27

End at: 2019-03-19 08:56:57

Local clock offset: -4.805 ms

Remote clock offset: -0.018 ms

Below is generated by plot.py at 2019-03-19 10:48:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.02 Mbit/s

95th percentile per-packet one-way delay: 2.440 ms

Loss rate: 0.02%

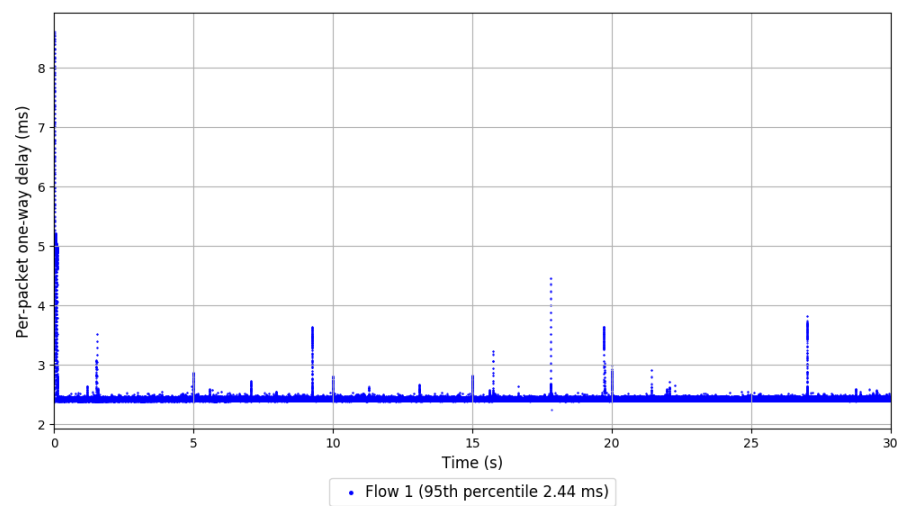
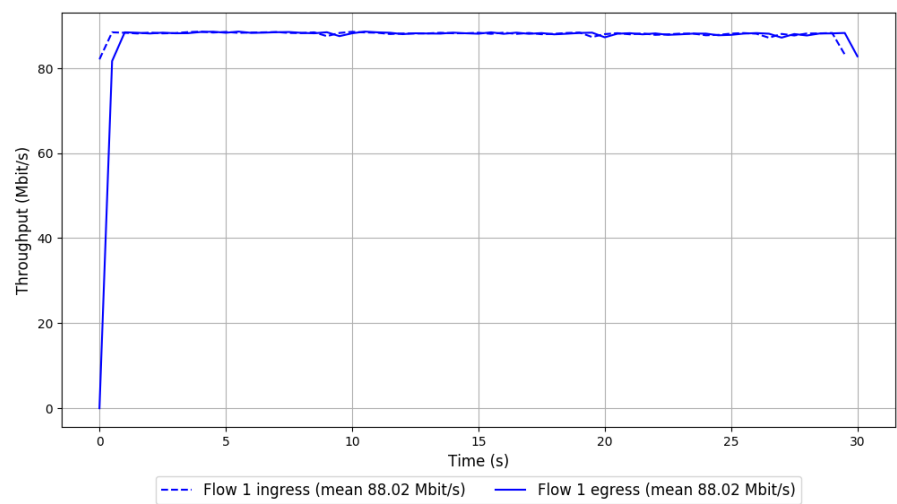
-- Flow 1:

Average throughput: 88.02 Mbit/s

95th percentile per-packet one-way delay: 2.440 ms

Loss rate: 0.02%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-03-19 09:20:11

End at: 2019-03-19 09:20:41

Local clock offset: -6.295 ms

Remote clock offset: 0.138 ms

Below is generated by plot.py at 2019-03-19 10:48:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.24 Mbit/s

95th percentile per-packet one-way delay: 1.823 ms

Loss rate: 0.02%

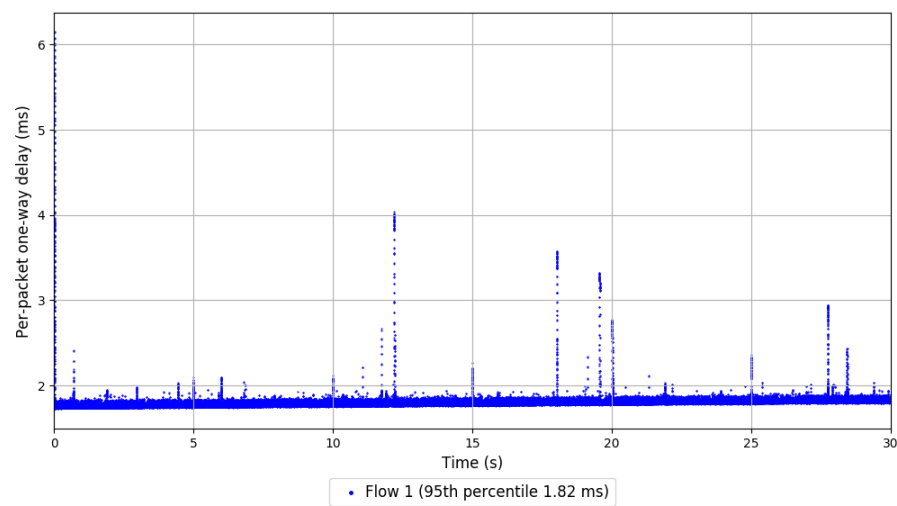
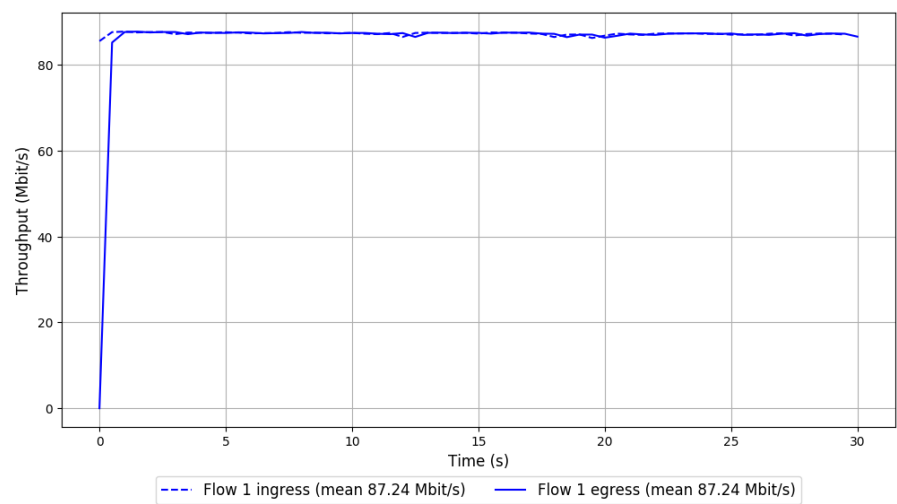
-- Flow 1:

Average throughput: 87.24 Mbit/s

95th percentile per-packet one-way delay: 1.823 ms

Loss rate: 0.02%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-03-19 09:43:55

End at: 2019-03-19 09:44:25

Local clock offset: -6.989 ms

Remote clock offset: 0.301 ms

Below is generated by plot.py at 2019-03-19 10:48:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.08 Mbit/s

95th percentile per-packet one-way delay: 2.483 ms

Loss rate: 0.02%

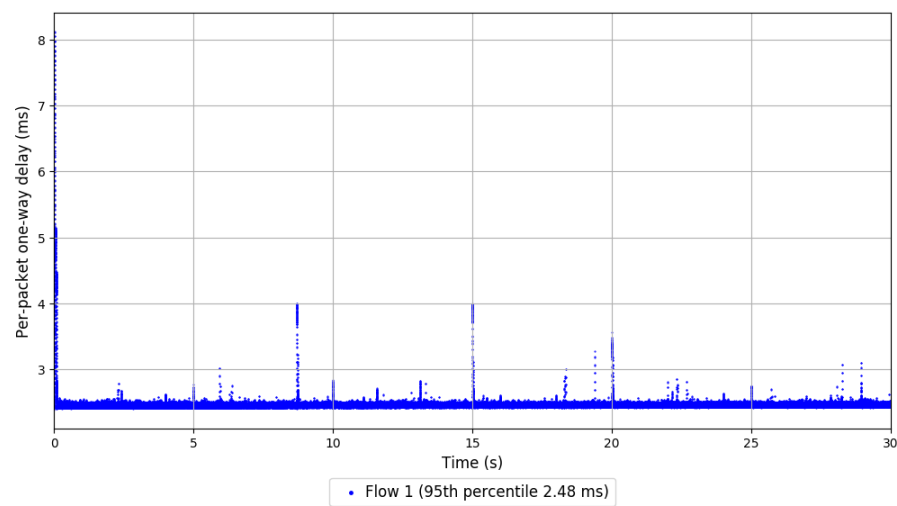
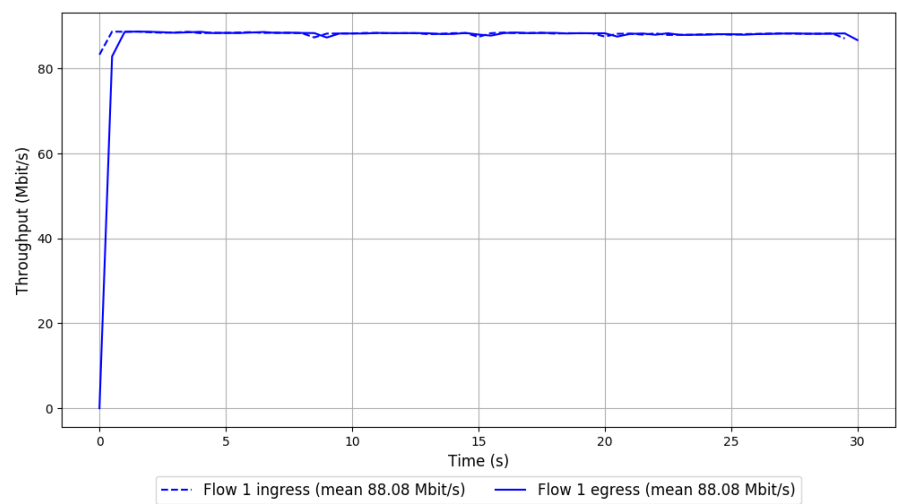
-- Flow 1:

Average throughput: 88.08 Mbit/s

95th percentile per-packet one-way delay: 2.483 ms

Loss rate: 0.02%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-03-19 10:07:38

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

Local clock offset: -7.573 ms

Remote clock offset: 0.449 ms

Below is generated by plot.py at 2019-03-19 10:48:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.27 Mbit/s

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

Loss rate: 0.02%

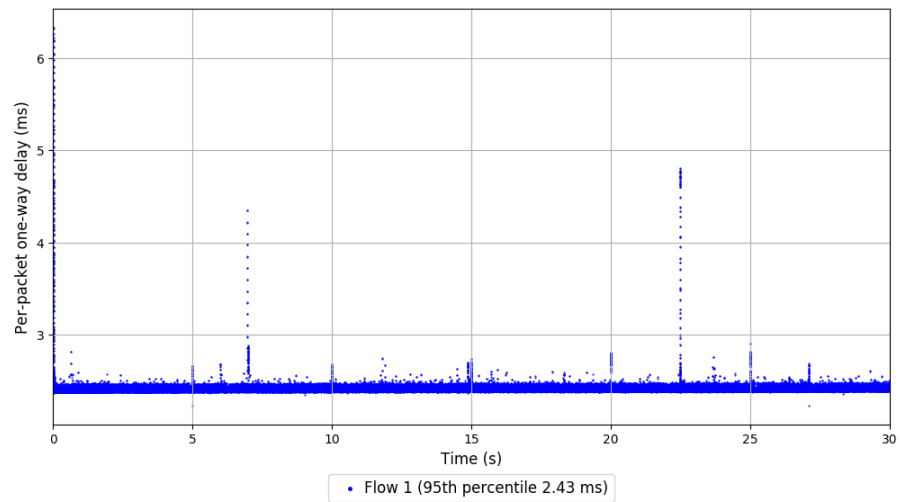
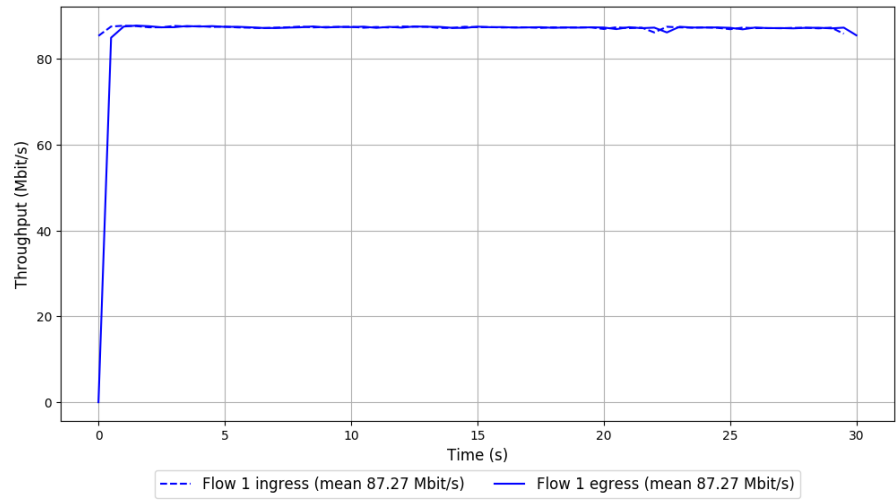
-- Flow 1:

Average throughput: 87.27 Mbit/s

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

Loss rate: 0.02%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-03-19 10:31:22

End at: 2019-03-19 10:31:52

Local clock offset: -6.649 ms

Remote clock offset: 0.571 ms

Below is generated by plot.py at 2019-03-19 10:49:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.60 Mbit/s

95th percentile per-packet one-way delay: 1.645 ms

Loss rate: 0.02%

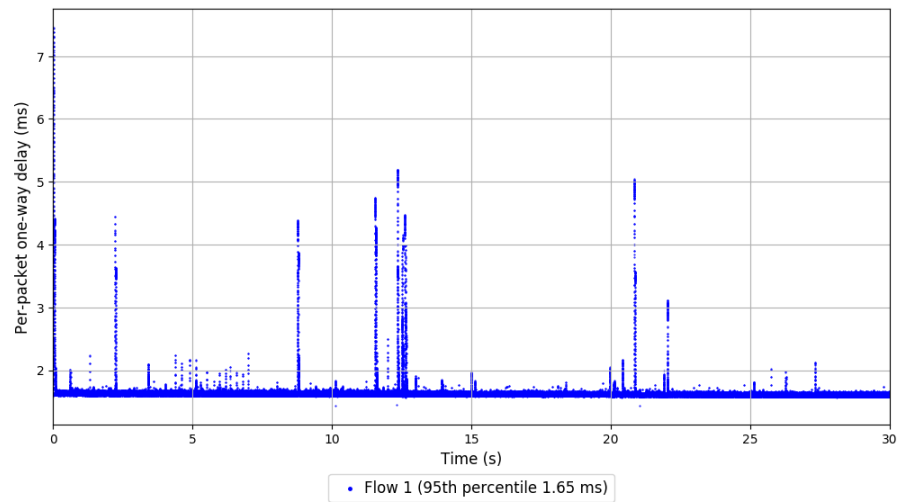
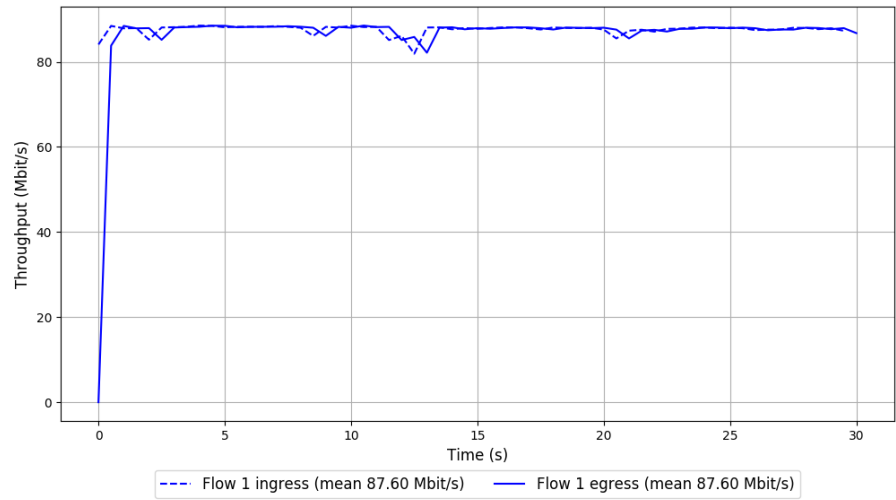
-- Flow 1:

Average throughput: 87.60 Mbit/s

95th percentile per-packet one-way delay: 1.645 ms

Loss rate: 0.02%

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

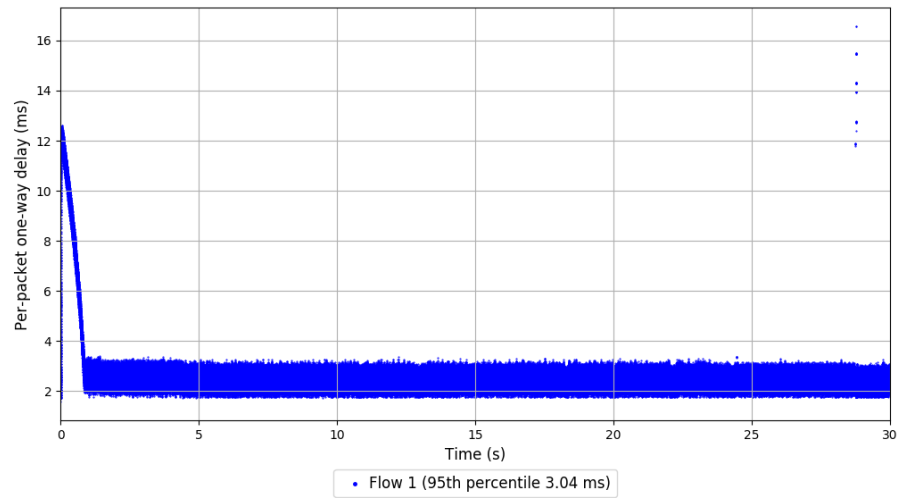
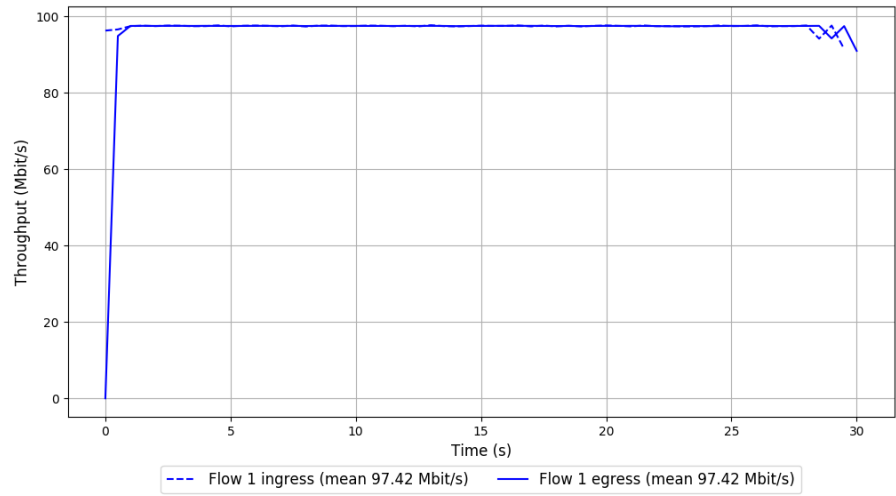


Run 1: Statistics of TCP Vegas

Start at: 2019-03-19 08:50:45
End at: 2019-03-19 08:51:15
Local clock offset: -5.425 ms
Remote clock offset: -0.138 ms

Below is generated by plot.py at 2019-03-19 10:49:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.42 Mbit/s
95th percentile per-packet one-way delay: 3.036 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.42 Mbit/s
95th percentile per-packet one-way delay: 3.036 ms
Loss rate: 0.02%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-03-19 09:14:29

End at: 2019-03-19 09:14:59

Local clock offset: -4.891 ms

Remote clock offset: 0.094 ms

Below is generated by plot.py at 2019-03-19 10:49:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 3.884 ms

Loss rate: 0.02%

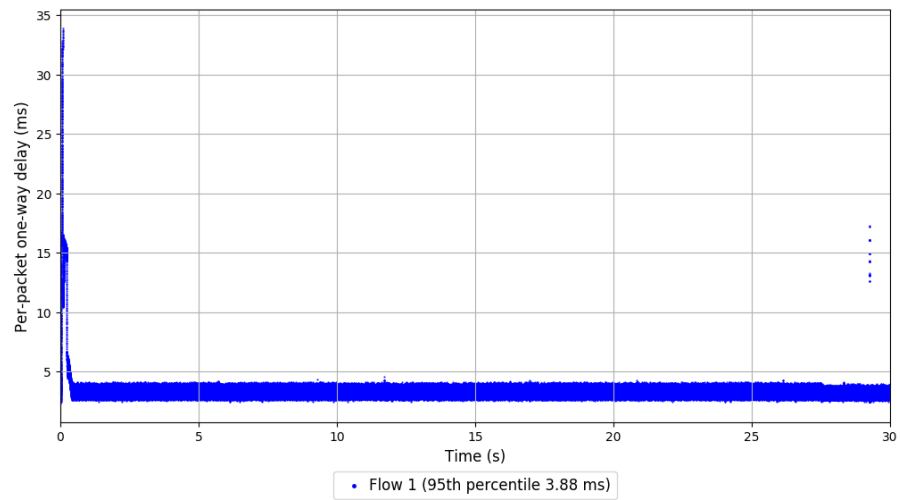
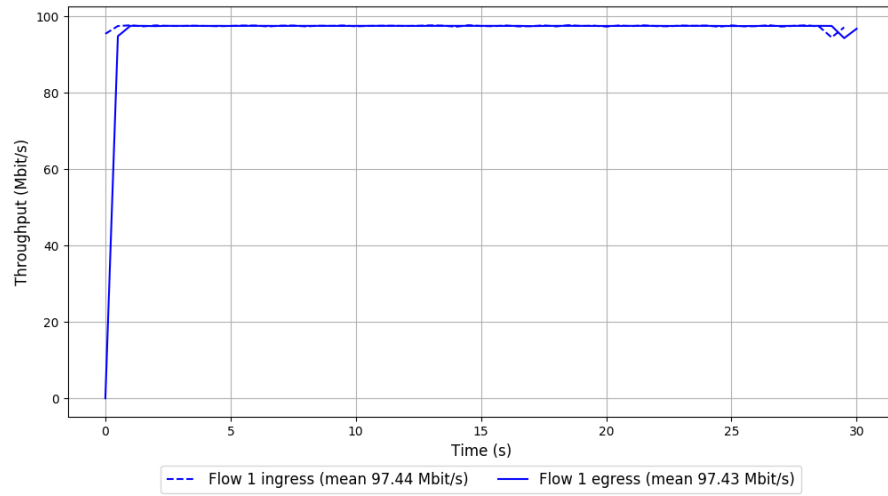
-- Flow 1:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 3.884 ms

Loss rate: 0.02%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-03-19 09:38:12

End at: 2019-03-19 09:38:42

Local clock offset: -7.566 ms

Remote clock offset: 0.251 ms

Below is generated by plot.py at 2019-03-19 10:49:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.44 Mbit/s

95th percentile per-packet one-way delay: 3.109 ms

Loss rate: 0.02%

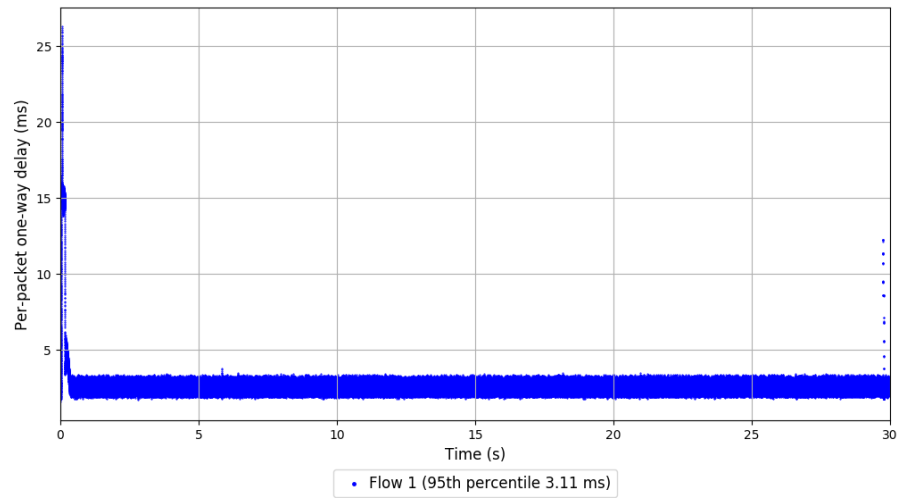
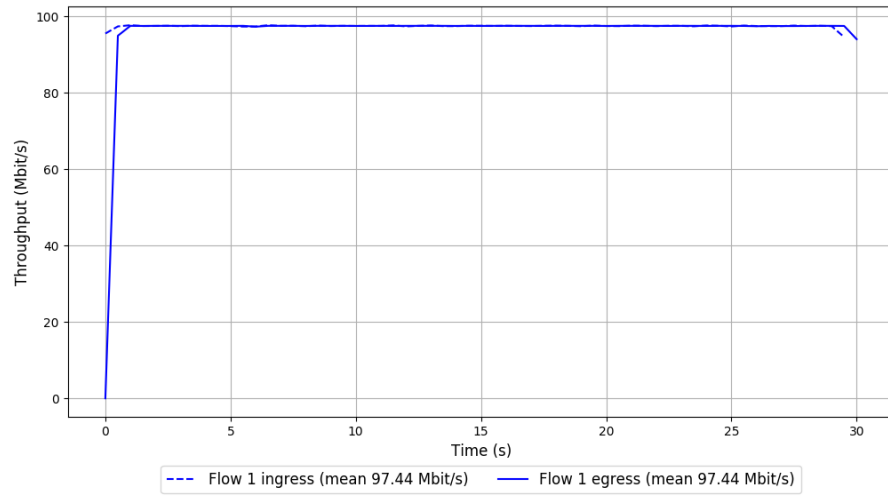
-- Flow 1:

Average throughput: 97.44 Mbit/s

95th percentile per-packet one-way delay: 3.109 ms

Loss rate: 0.02%

Run 3: Report of TCP Vegas — Data Link

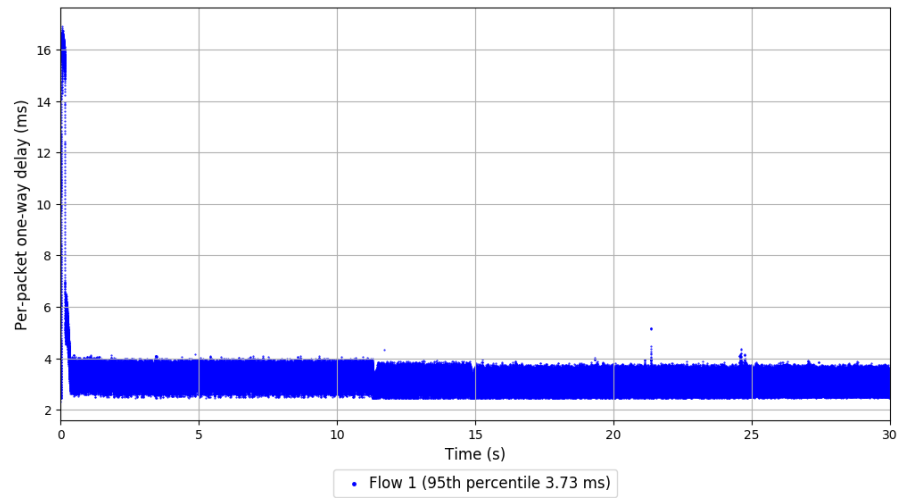
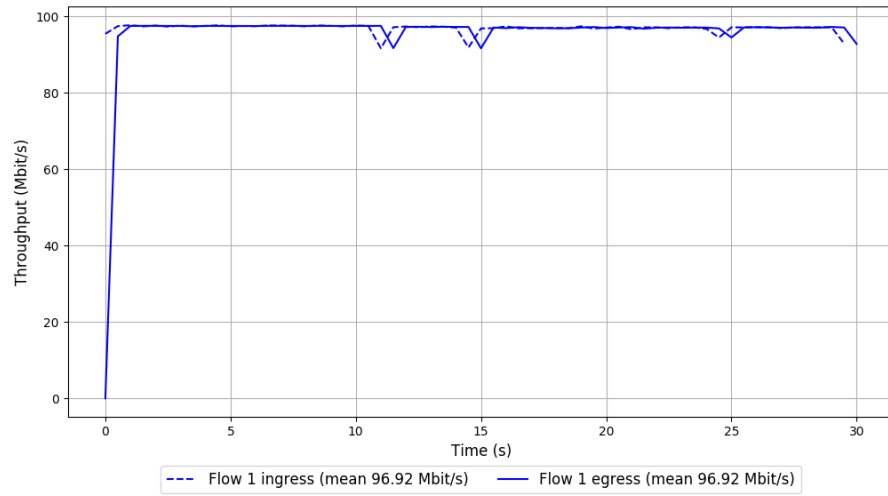


Run 4: Statistics of TCP Vegas

Start at: 2019-03-19 10:01:56
End at: 2019-03-19 10:02:26
Local clock offset: -7.433 ms
Remote clock offset: 0.369 ms

Below is generated by plot.py at 2019-03-19 10:49:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.92 Mbit/s
95th percentile per-packet one-way delay: 3.728 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.92 Mbit/s
95th percentile per-packet one-way delay: 3.728 ms
Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-03-19 10:25:39

End at: 2019-03-19 10:26:10

Local clock offset: -7.068 ms

Remote clock offset: 0.434 ms

Below is generated by plot.py at 2019-03-19 10:49:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.32 Mbit/s

95th percentile per-packet one-way delay: 3.046 ms

Loss rate: 0.02%

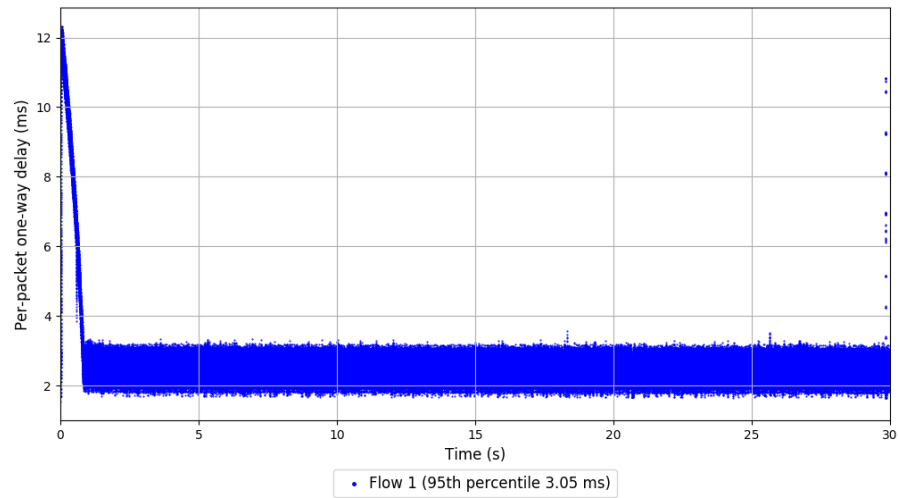
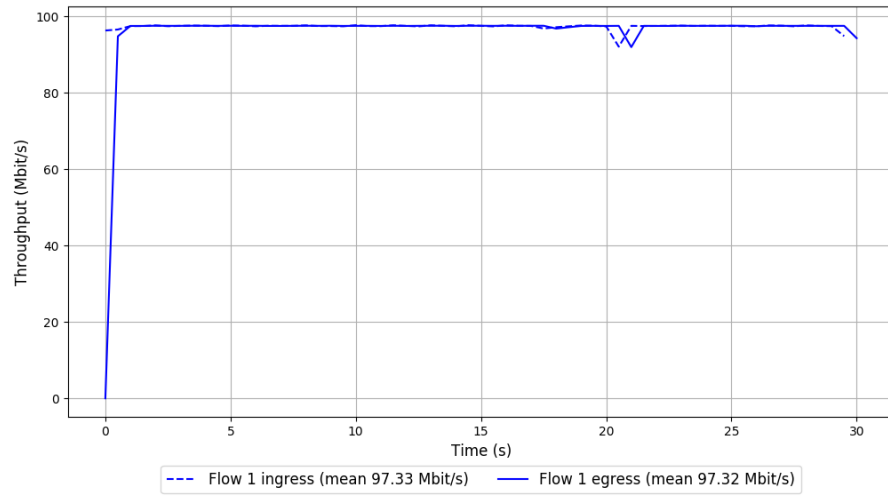
-- Flow 1:

Average throughput: 97.32 Mbit/s

95th percentile per-packet one-way delay: 3.046 ms

Loss rate: 0.02%

Run 5: Report of TCP Vegas — Data Link

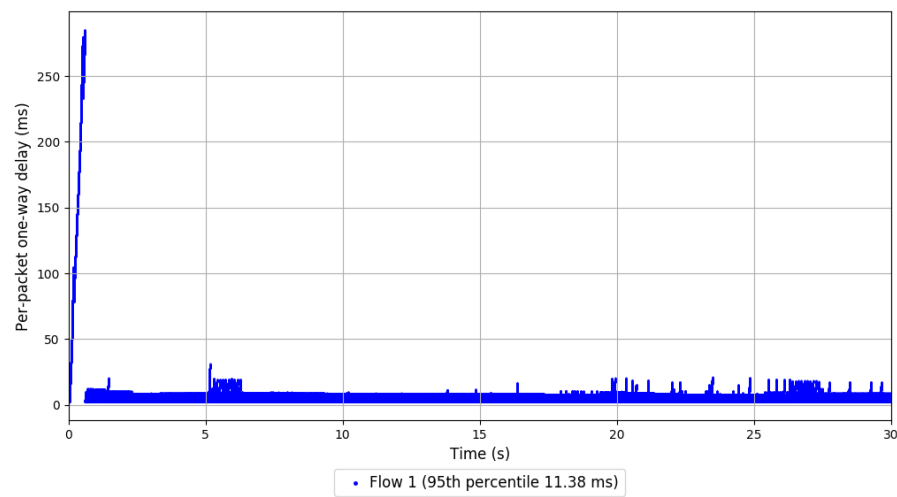
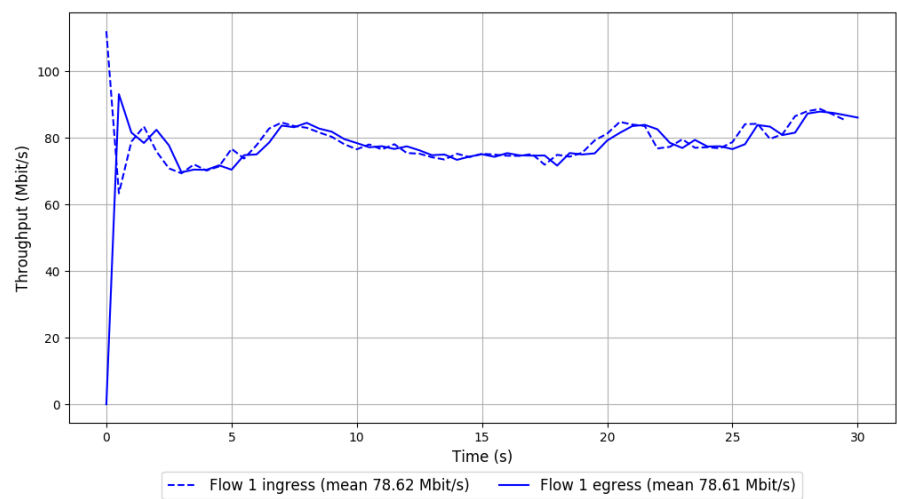


Run 1: Statistics of Verus

Start at: 2019-03-19 08:42:51
End at: 2019-03-19 08:43:21
Local clock offset: -4.583 ms
Remote clock offset: -0.165 ms

Below is generated by plot.py at 2019-03-19 10:49:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.61 Mbit/s
95th percentile per-packet one-way delay: 11.384 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 78.61 Mbit/s
95th percentile per-packet one-way delay: 11.384 ms
Loss rate: 0.02%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-03-19 09:06:36

End at: 2019-03-19 09:07:06

Local clock offset: -4.899 ms

Remote clock offset: 0.117 ms

Below is generated by plot.py at 2019-03-19 10:49:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.09 Mbit/s

95th percentile per-packet one-way delay: 17.214 ms

Loss rate: 0.02%

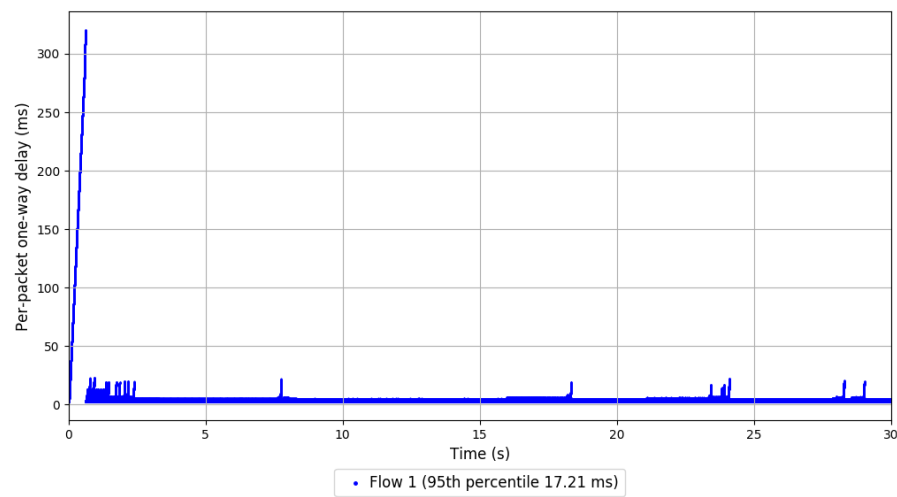
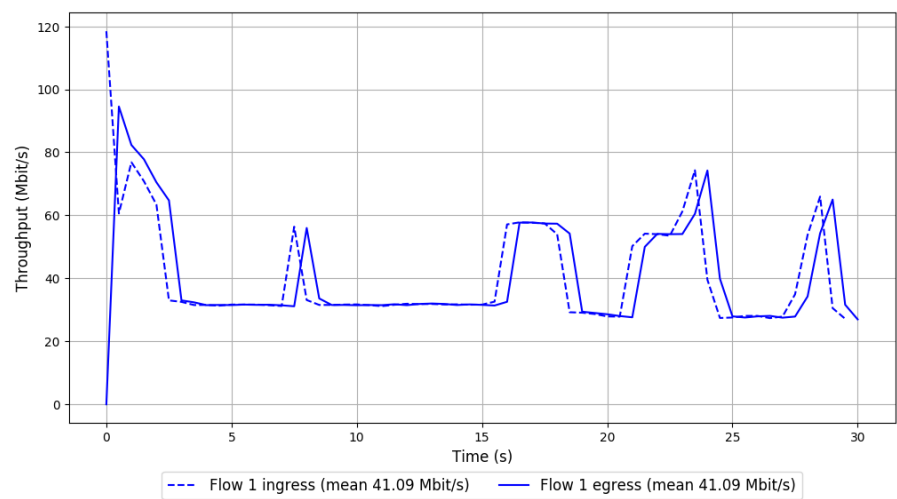
-- Flow 1:

Average throughput: 41.09 Mbit/s

95th percentile per-packet one-way delay: 17.214 ms

Loss rate: 0.02%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-03-19 09:30:20

End at: 2019-03-19 09:30:50

Local clock offset: -6.489 ms

Remote clock offset: 0.199 ms

Below is generated by plot.py at 2019-03-19 10:49:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.83 Mbit/s

95th percentile per-packet one-way delay: 10.917 ms

Loss rate: 0.03%

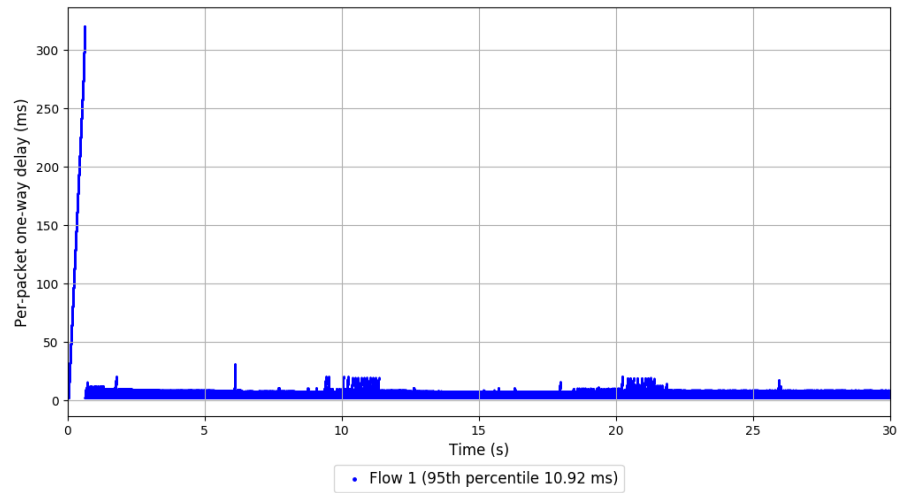
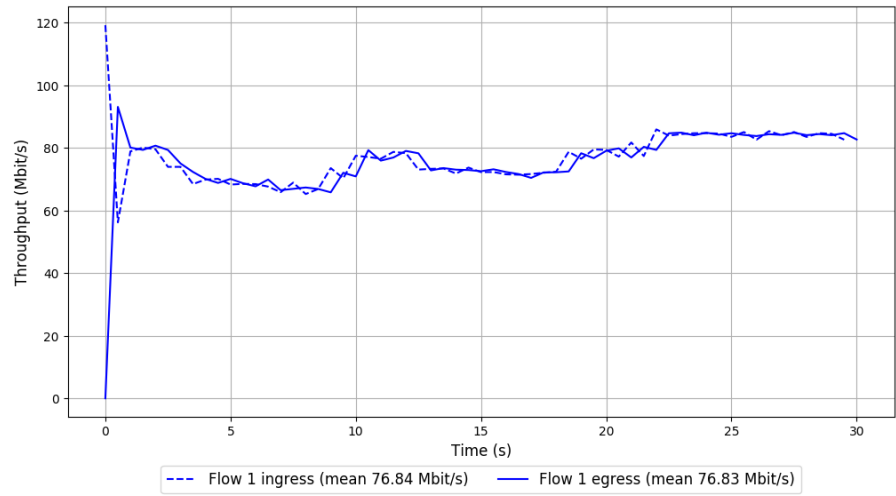
-- Flow 1:

Average throughput: 76.83 Mbit/s

95th percentile per-packet one-way delay: 10.917 ms

Loss rate: 0.03%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-03-19 09:54:04

End at: 2019-03-19 09:54:34

Local clock offset: -7.989 ms

Remote clock offset: 0.372 ms

Below is generated by plot.py at 2019-03-19 10:49:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.41 Mbit/s

95th percentile per-packet one-way delay: 15.632 ms

Loss rate: 0.02%

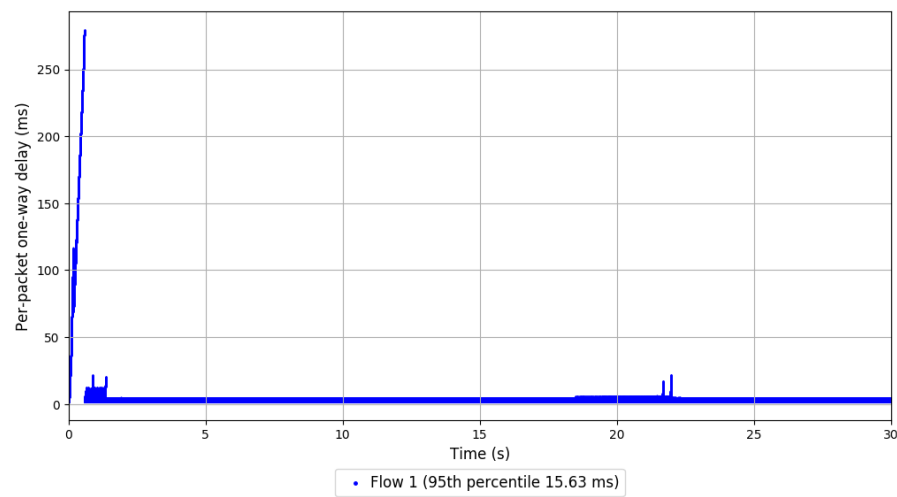
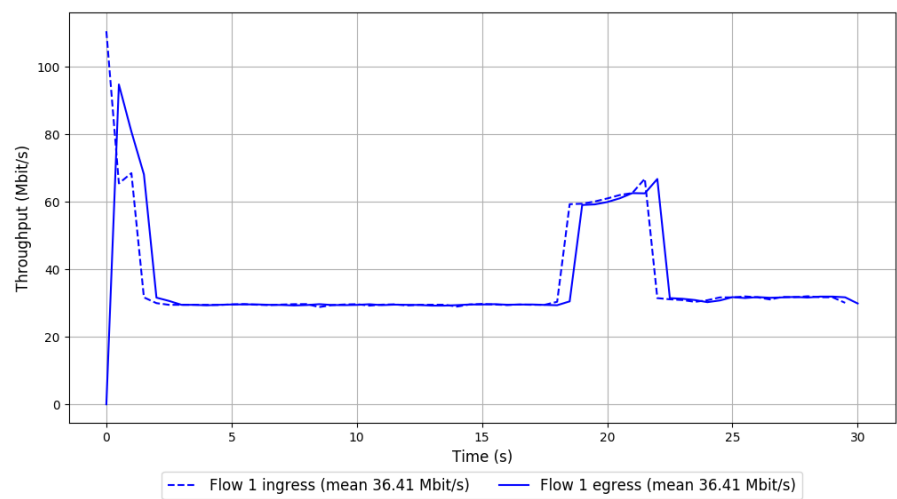
-- Flow 1:

Average throughput: 36.41 Mbit/s

95th percentile per-packet one-way delay: 15.632 ms

Loss rate: 0.02%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-03-19 10:17:47

End at: 2019-03-19 10:18:17

Local clock offset: -8.144 ms

Remote clock offset: 0.416 ms

Below is generated by plot.py at 2019-03-19 10:49:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.86 Mbit/s

95th percentile per-packet one-way delay: 8.789 ms

Loss rate: 0.04%

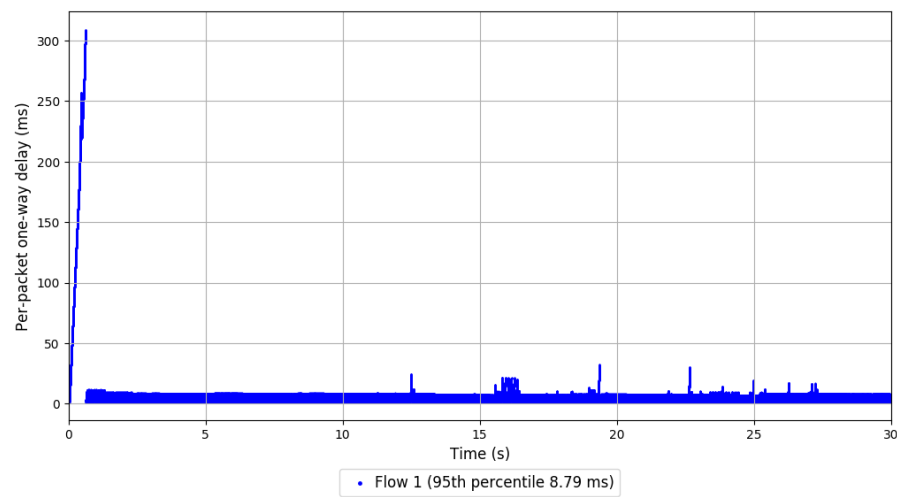
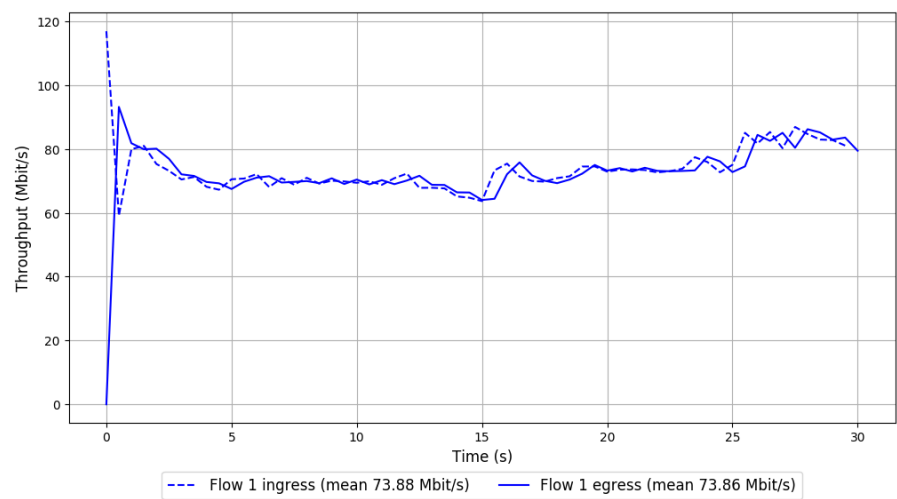
-- Flow 1:

Average throughput: 73.86 Mbit/s

95th percentile per-packet one-way delay: 8.789 ms

Loss rate: 0.04%

Run 5: Report of Verus — Data Link

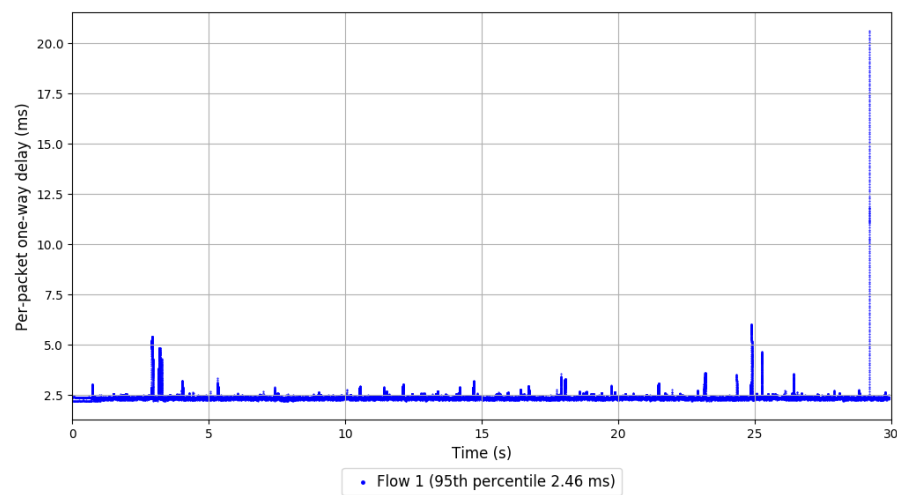
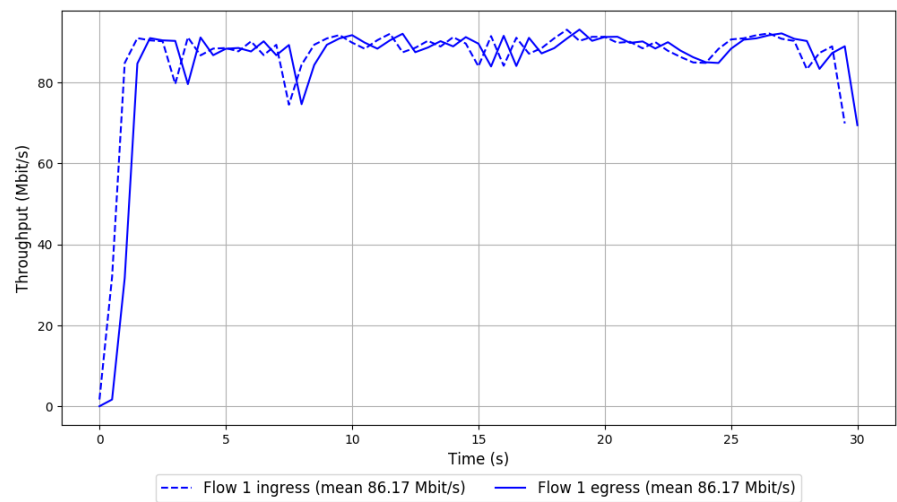


Run 1: Statistics of PCC-Vivace

Start at: 2019-03-19 08:41:42
End at: 2019-03-19 08:42:12
Local clock offset: -4.571 ms
Remote clock offset: -0.202 ms

Below is generated by plot.py at 2019-03-19 10:50:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.17 Mbit/s
95th percentile per-packet one-way delay: 2.457 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 86.17 Mbit/s
95th percentile per-packet one-way delay: 2.457 ms
Loss rate: 0.02%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-03-19 09:05:27

End at: 2019-03-19 09:05:57

Local clock offset: -5.646 ms

Remote clock offset: 0.134 ms

Below is generated by plot.py at 2019-03-19 10:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.18 Mbit/s

95th percentile per-packet one-way delay: 1.690 ms

Loss rate: 0.02%

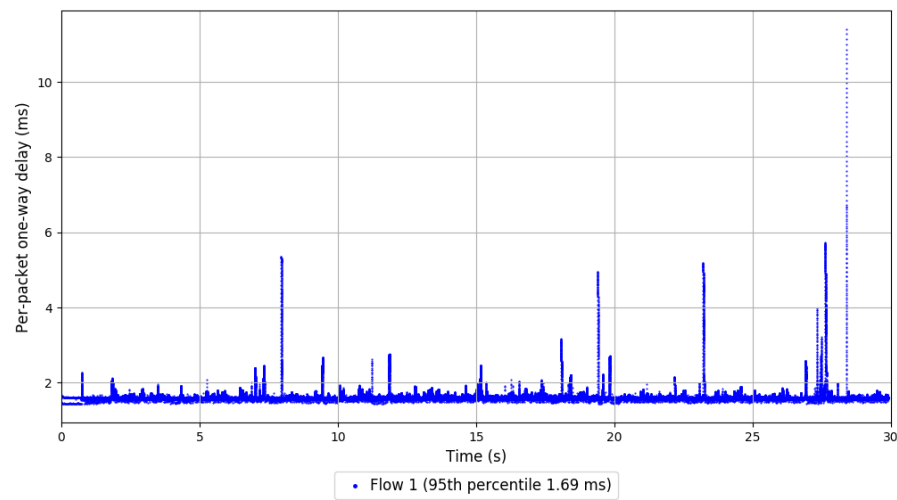
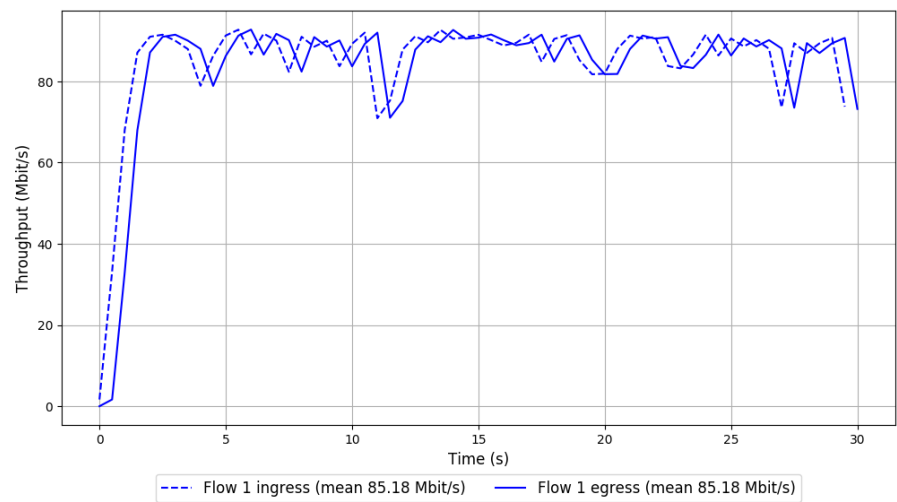
-- Flow 1:

Average throughput: 85.18 Mbit/s

95th percentile per-packet one-way delay: 1.690 ms

Loss rate: 0.02%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

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

End at: 2019-03-19 09:29:40

Local clock offset: -6.379 ms

Remote clock offset: 0.16 ms

Below is generated by plot.py at 2019-03-19 10:50:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.35 Mbit/s

95th percentile per-packet one-way delay: 2.587 ms

Loss rate: 0.02%

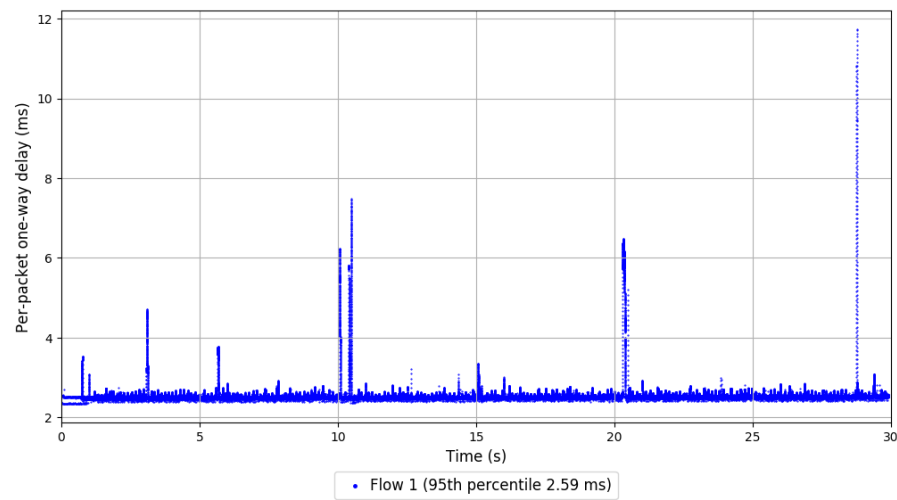
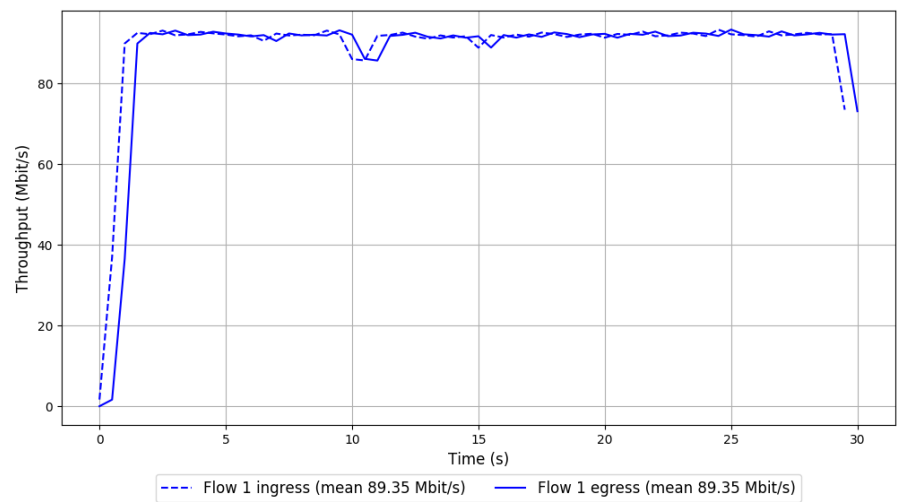
-- Flow 1:

Average throughput: 89.35 Mbit/s

95th percentile per-packet one-way delay: 2.587 ms

Loss rate: 0.02%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-03-19 09:52:55

End at: 2019-03-19 09:53:25

Local clock offset: -7.23 ms

Remote clock offset: 0.3 ms

Below is generated by plot.py at 2019-03-19 10:50:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.09 Mbit/s

95th percentile per-packet one-way delay: 2.566 ms

Loss rate: 0.01%

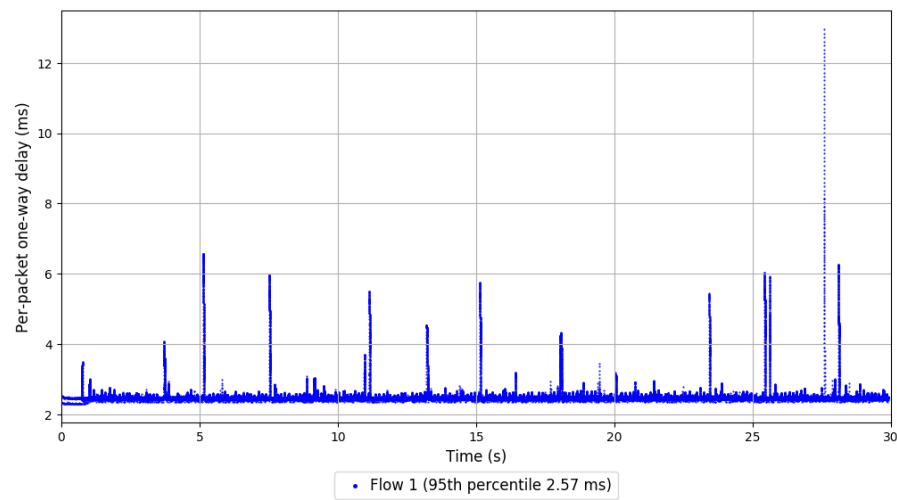
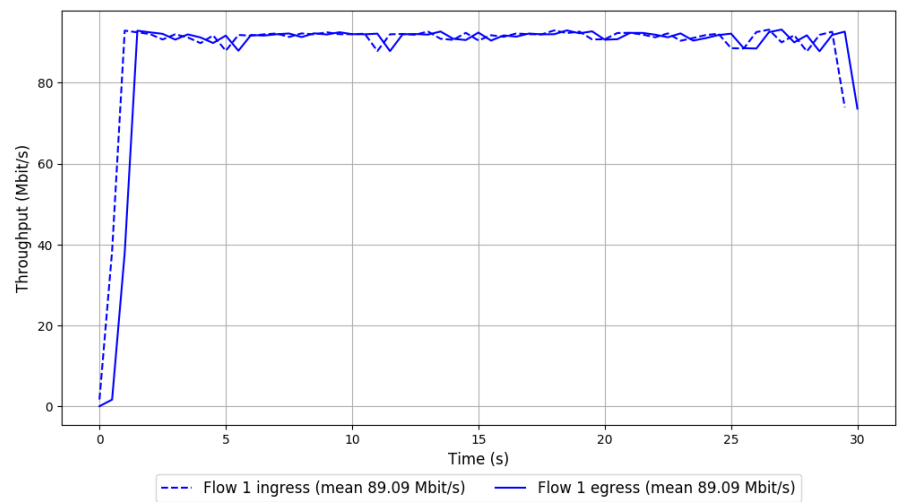
-- Flow 1:

Average throughput: 89.09 Mbit/s

95th percentile per-packet one-way delay: 2.566 ms

Loss rate: 0.01%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-03-19 10:16:38

End at: 2019-03-19 10:17:08

Local clock offset: -7.612 ms

Remote clock offset: 0.464 ms

Below is generated by plot.py at 2019-03-19 10:50:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.45 Mbit/s

95th percentile per-packet one-way delay: 2.351 ms

Loss rate: 0.02%

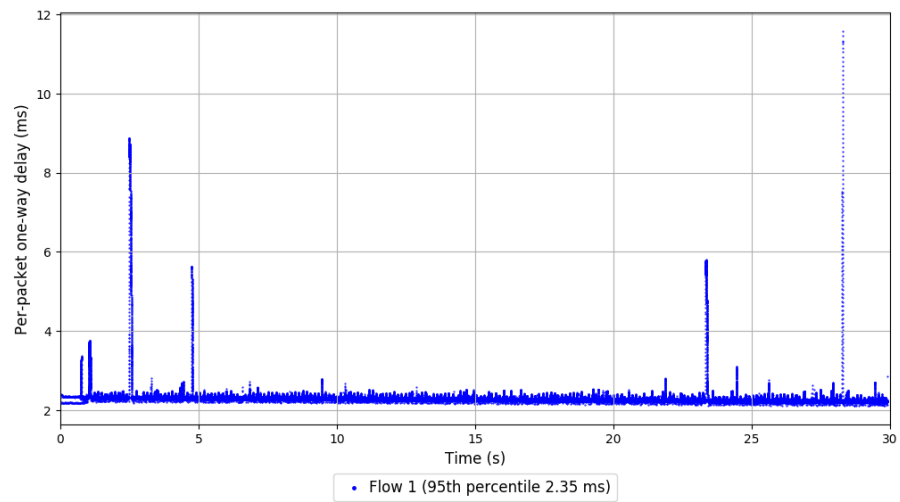
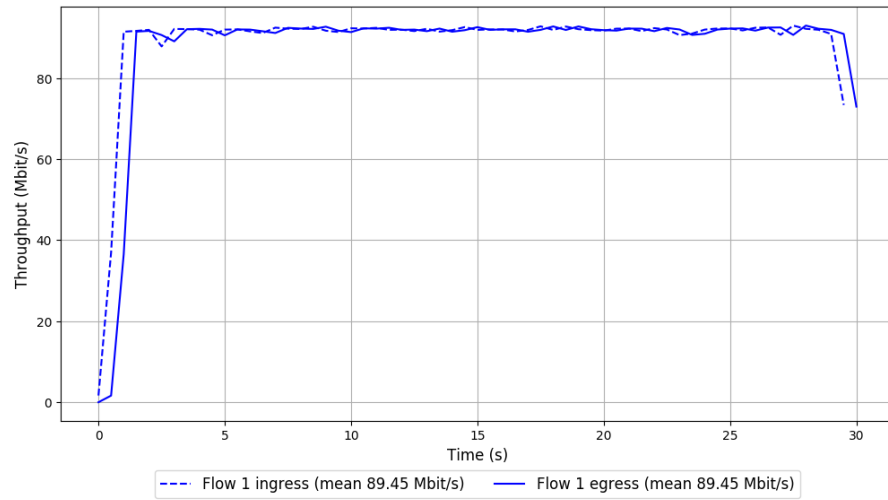
-- Flow 1:

Average throughput: 89.45 Mbit/s

95th percentile per-packet one-way delay: 2.351 ms

Loss rate: 0.02%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-03-19 08:39:29

End at: 2019-03-19 08:39:59

Local clock offset: -5.301 ms

Remote clock offset: -0.25 ms

Below is generated by plot.py at 2019-03-19 10:50:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 2.144 ms

Loss rate: 0.00%

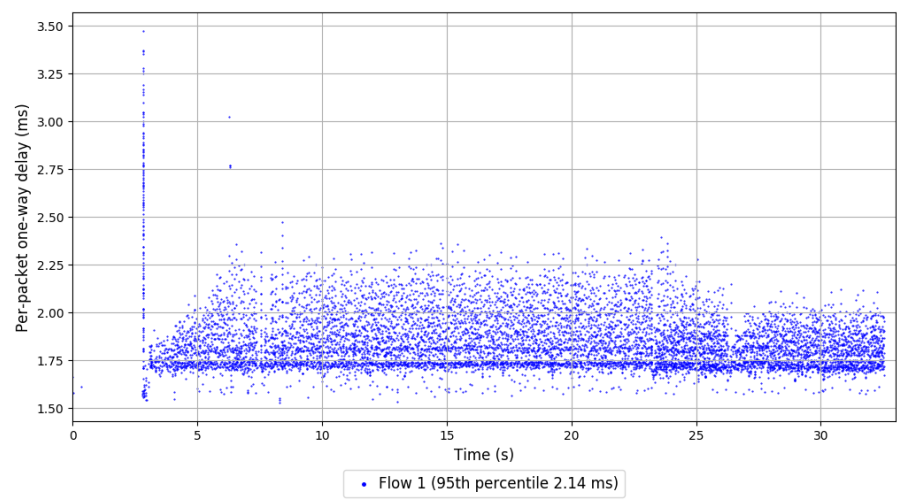
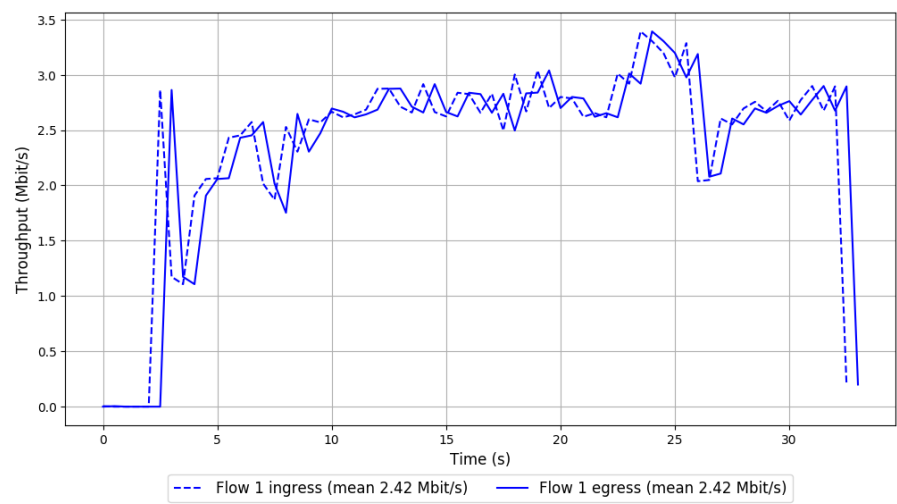
-- Flow 1:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 2.144 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-03-19 09:03:14

End at: 2019-03-19 09:03:44

Local clock offset: -4.923 ms

Remote clock offset: 0.055 ms

Below is generated by plot.py at 2019-03-19 10:50:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 2.837 ms

Loss rate: 0.00%

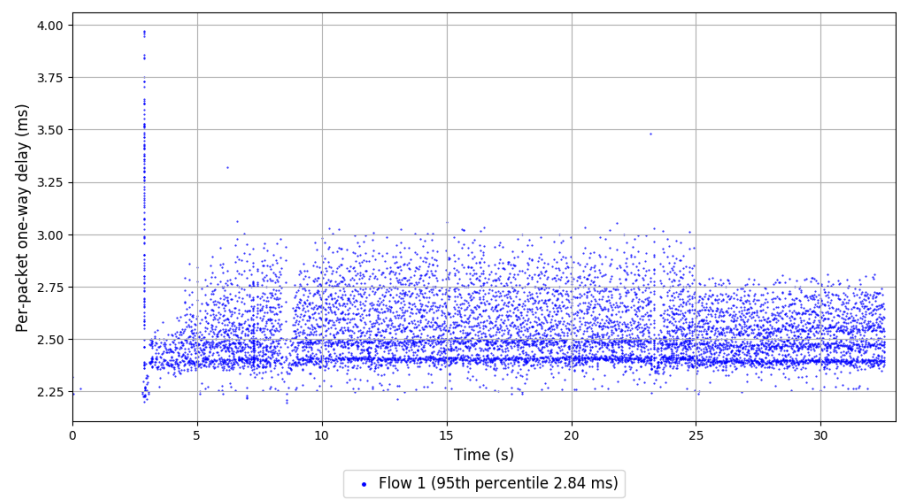
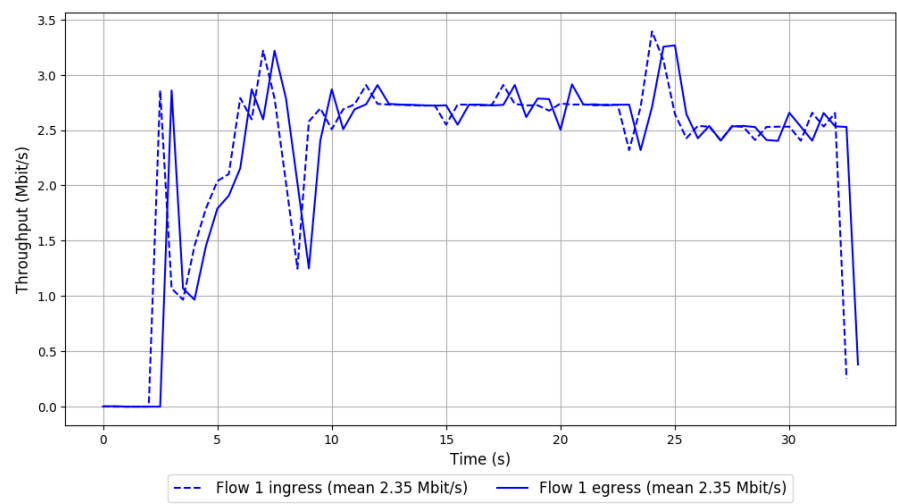
-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 2.837 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-03-19 09:26:58

End at: 2019-03-19 09:27:28

Local clock offset: -6.975 ms

Remote clock offset: 0.2 ms

Below is generated by plot.py at 2019-03-19 10:50:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 2.168 ms

Loss rate: 0.00%

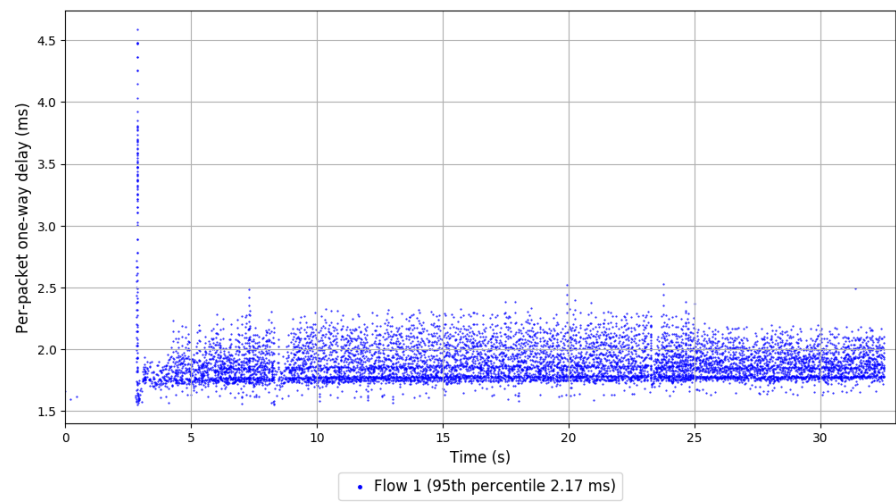
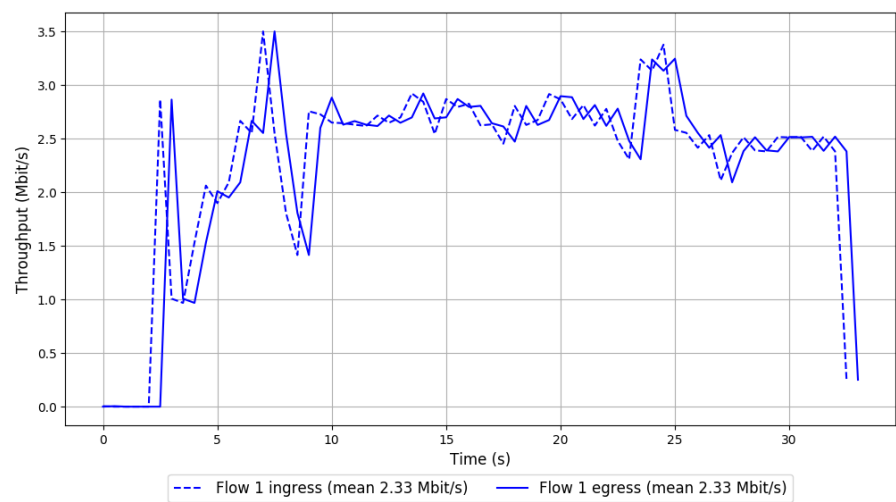
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 2.168 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-03-19 09:50:43

End at: 2019-03-19 09:51:13

Local clock offset: -7.999 ms

Remote clock offset: 0.336 ms

Below is generated by plot.py at 2019-03-19 10:50:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 2.019 ms

Loss rate: 0.00%

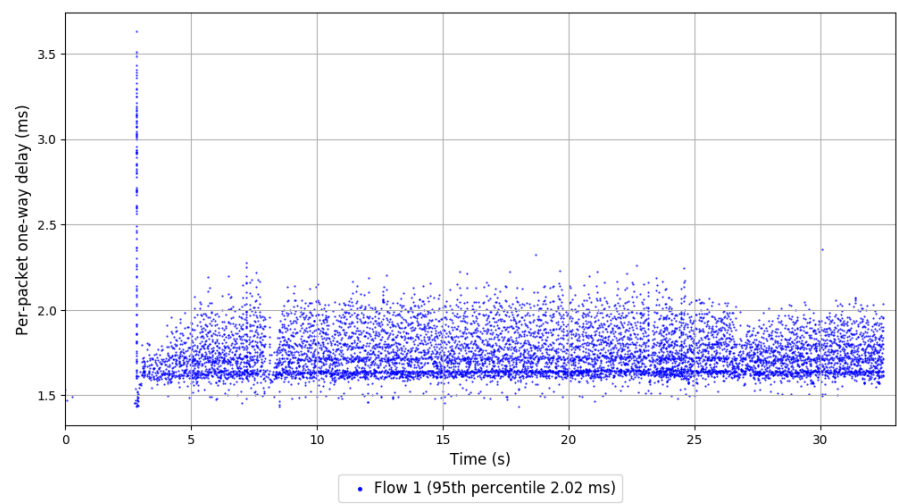
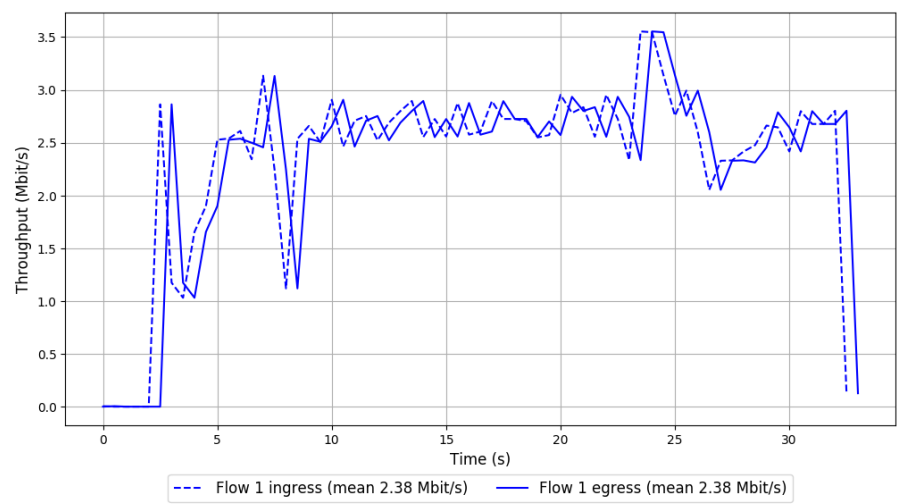
-- Flow 1:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 2.019 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-03-19 10:14:25

End at: 2019-03-19 10:14:55

Local clock offset: -8.464 ms

Remote clock offset: 0.506 ms

Below is generated by plot.py at 2019-03-19 10:50:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 2.056 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 2.056 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

