

Pantheon Report

Generated at 2019-03-19 10:54:27 (UTC).

Data path: Colombia on **p4p1** (*remote*) → AWS Brazil 2 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:

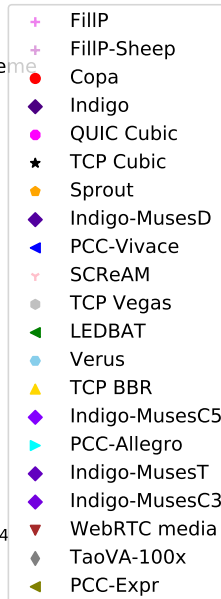
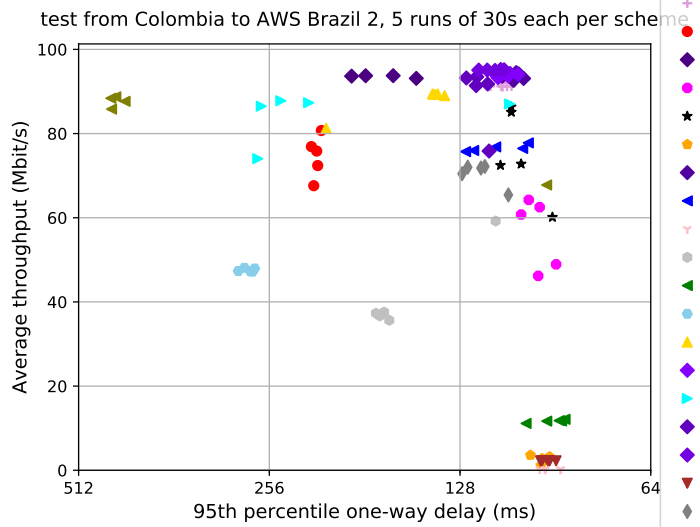
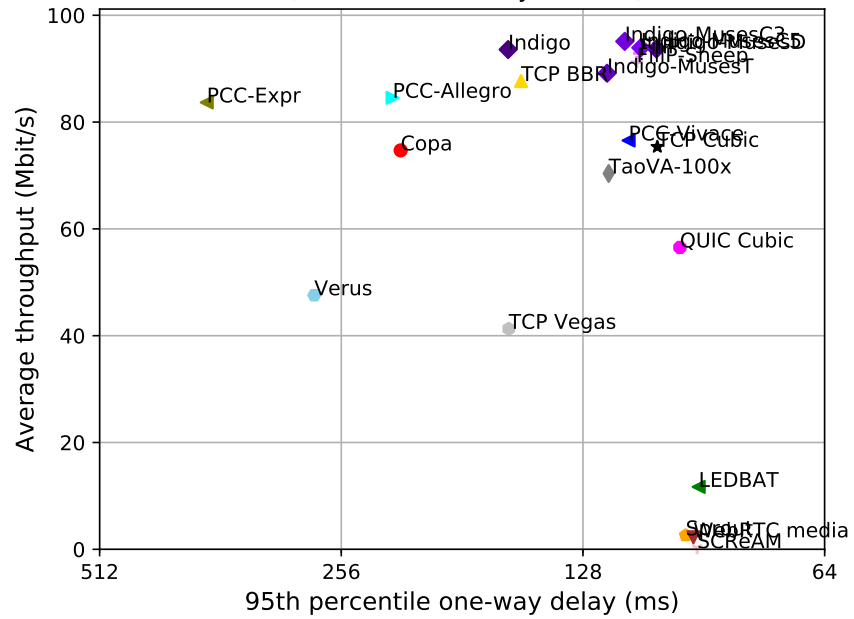
```
Linux 4.15.0-1033-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

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

test from Colombia to AWS Brazil 2, 5 runs of 30s each per scheme
(mean of all runs by 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	87.69	152.88	1.52
Copa	5	74.70	215.93	4.79
TCP Cubic	5	75.37	103.42	0.75
FillP	5	92.88	108.94	0.65
FillP-Sheep	5	91.23	109.72	0.71
Indigo	5	93.58	158.65	2.05
Indigo-MusesC3	5	95.11	113.54	6.32
Indigo-MusesC5	5	93.93	108.43	3.99
Indigo-MusesD	5	93.70	103.67	0.82
Indigo-MusesT	5	89.14	119.44	9.74
LEDBAT	5	11.69	91.86	1.17
PCC-Allegro	5	84.54	220.94	1.26
PCC-Expr	5	83.68	376.56	1.53
QUIC Cubic	5	56.53	96.93	1.09
SCReAM	5	0.22	92.25	0.61
Sprout	5	2.62	95.34	0.88
TaoVA-100x	5	70.38	118.90	2.01
TCP Vegas	5	41.29	158.36	0.74
Verus	5	47.58	276.64	1.36
PCC-Vivace	5	76.56	112.31	0.80
WebRTC media	5	2.24	93.26	0.29

Run 1: Statistics of TCP BBR

Start at: 2019-03-19 08:40:47

End at: 2019-03-19 08:41:17

Local clock offset: -7.739 ms

Remote clock offset: 9.809 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.02 Mbit/s

95th percentile per-packet one-way delay: 135.376 ms

Loss rate: 0.78%

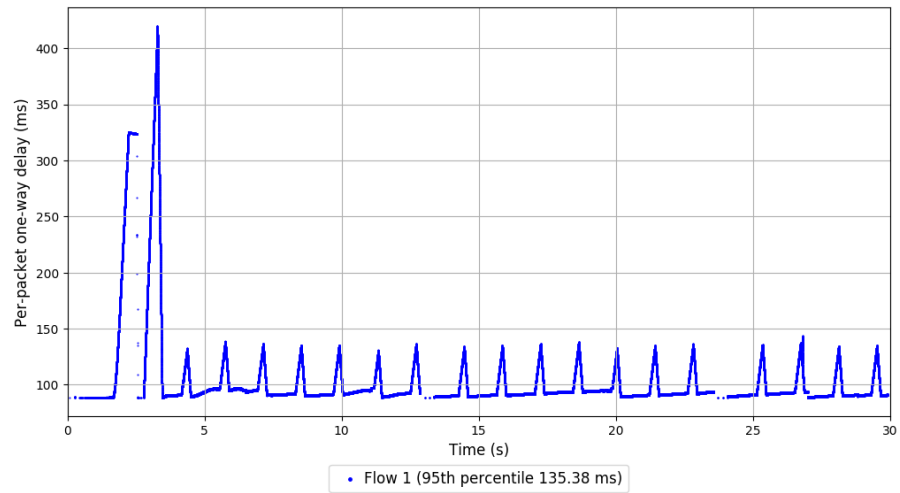
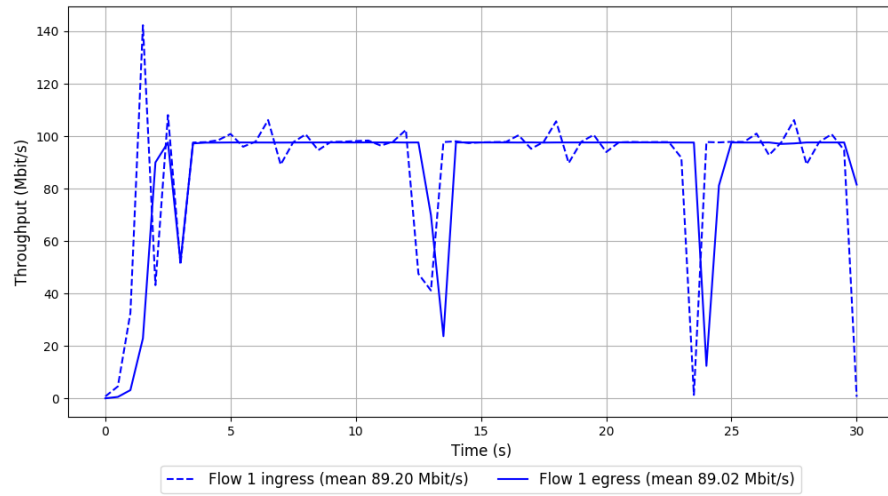
-- Flow 1:

Average throughput: 89.02 Mbit/s

95th percentile per-packet one-way delay: 135.376 ms

Loss rate: 0.78%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-03-19 09:05:48

End at: 2019-03-19 09:06:18

Local clock offset: -8.209 ms

Remote clock offset: 3.282 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.27 Mbit/s

95th percentile per-packet one-way delay: 208.227 ms

Loss rate: 4.39%

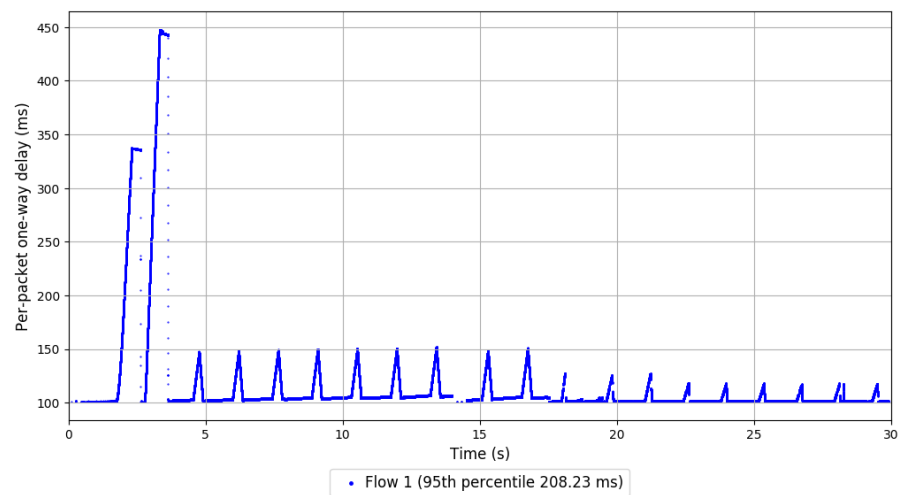
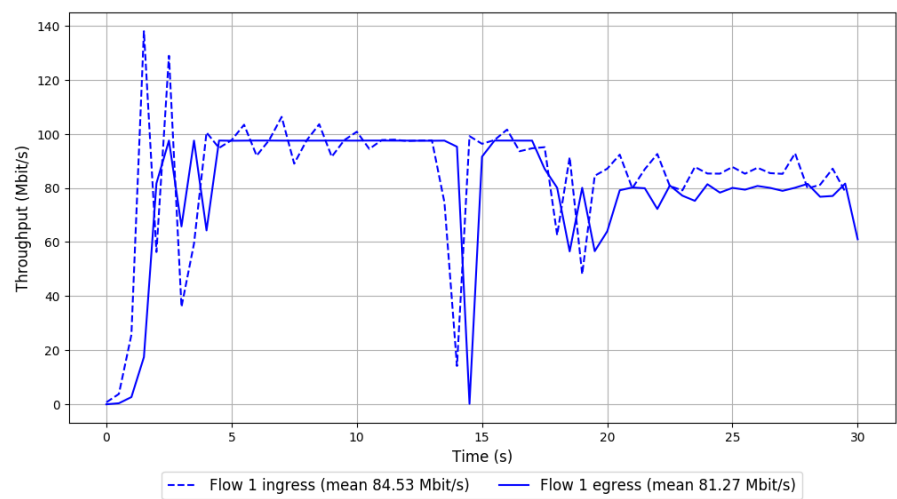
-- Flow 1:

Average throughput: 81.27 Mbit/s

95th percentile per-packet one-way delay: 208.227 ms

Loss rate: 4.39%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

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

End at: 2019-03-19 09:31:20

Local clock offset: -7.197 ms

Remote clock offset: 2.571 ms

Below is generated by plot.py at 2019-03-19 10:43:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.43 Mbit/s

95th percentile per-packet one-way delay: 138.851 ms

Loss rate: 0.81%

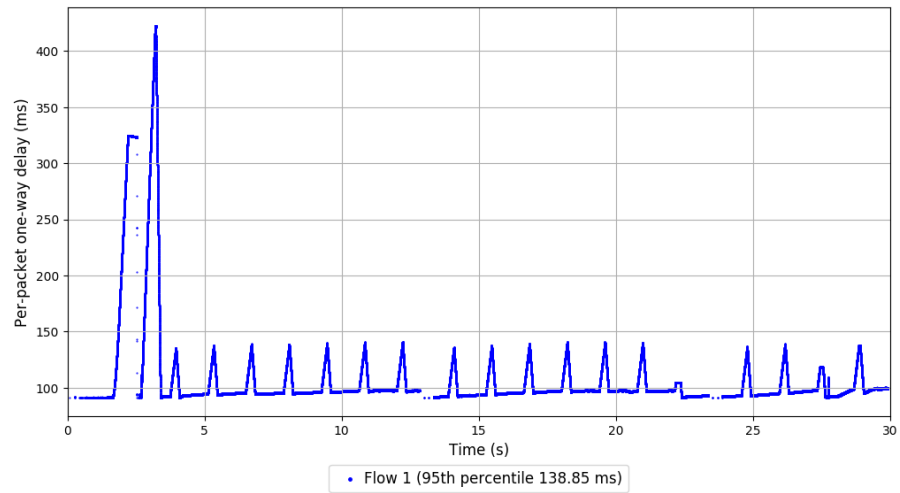
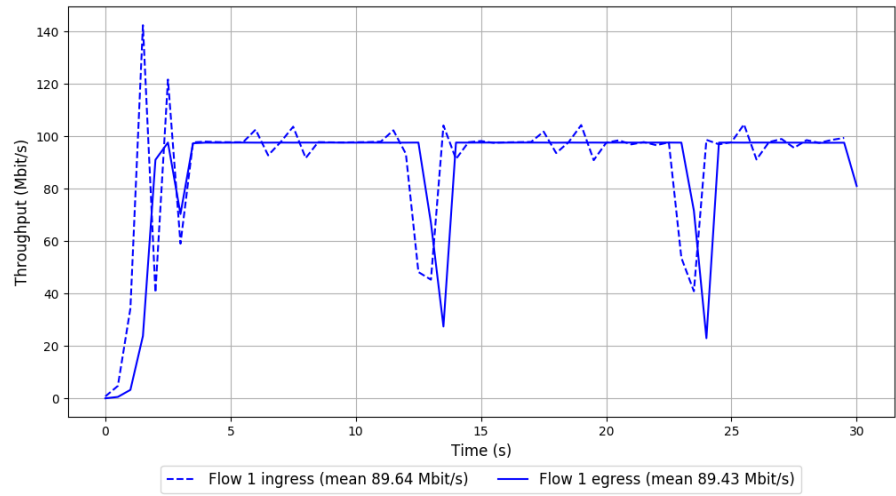
-- Flow 1:

Average throughput: 89.43 Mbit/s

95th percentile per-packet one-way delay: 138.851 ms

Loss rate: 0.81%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

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

End at: 2019-03-19 09:56:22

Local clock offset: -7.776 ms

Remote clock offset: 0.795 ms

Below is generated by plot.py at 2019-03-19 10:43:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.39 Mbit/s

95th percentile per-packet one-way delay: 141.503 ms

Loss rate: 0.82%

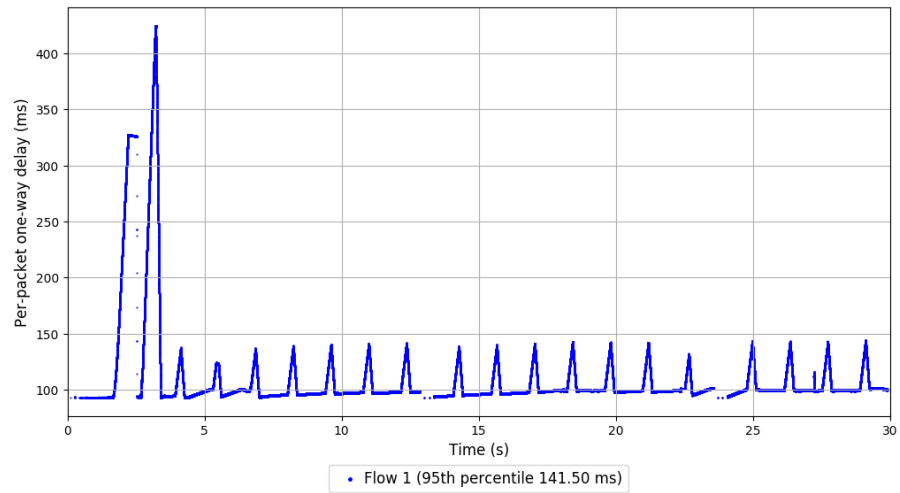
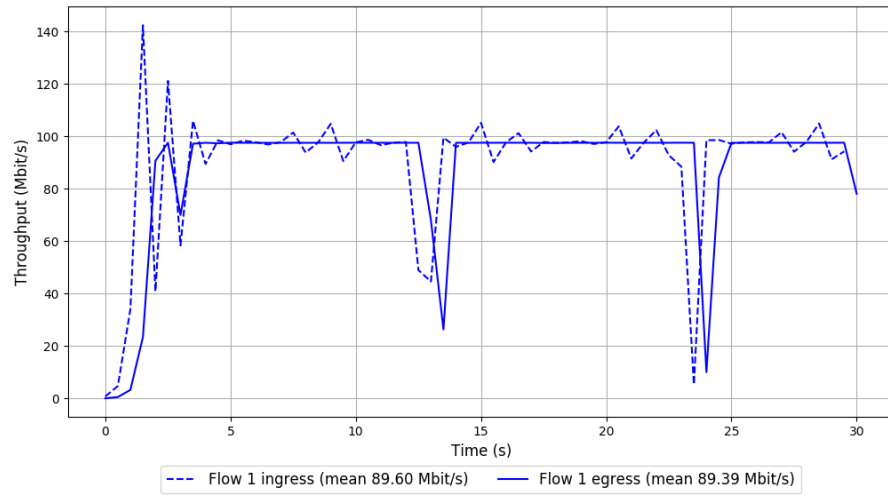
-- Flow 1:

Average throughput: 89.39 Mbit/s

95th percentile per-packet one-way delay: 141.503 ms

Loss rate: 0.82%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-03-19 10:20:52

End at: 2019-03-19 10:21:22

Local clock offset: -7.414 ms

Remote clock offset: 0.745 ms

Below is generated by plot.py at 2019-03-19 10:43:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.35 Mbit/s

95th percentile per-packet one-way delay: 140.461 ms

Loss rate: 0.79%

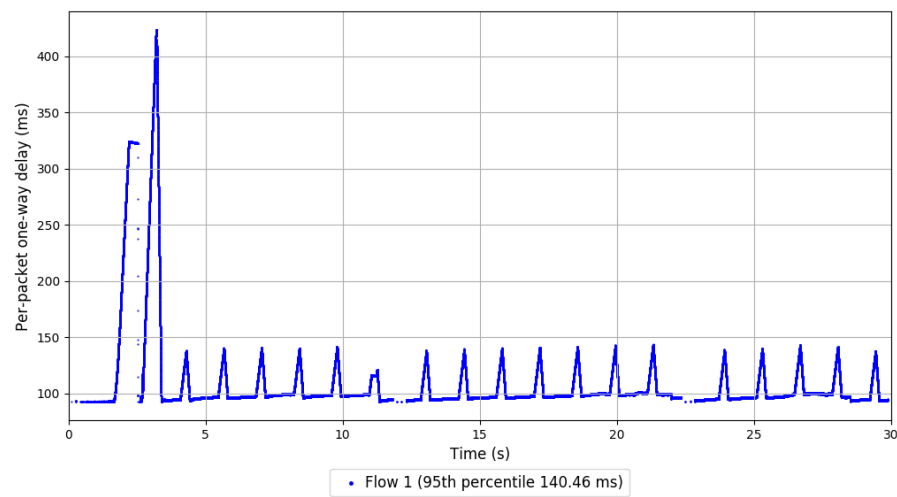
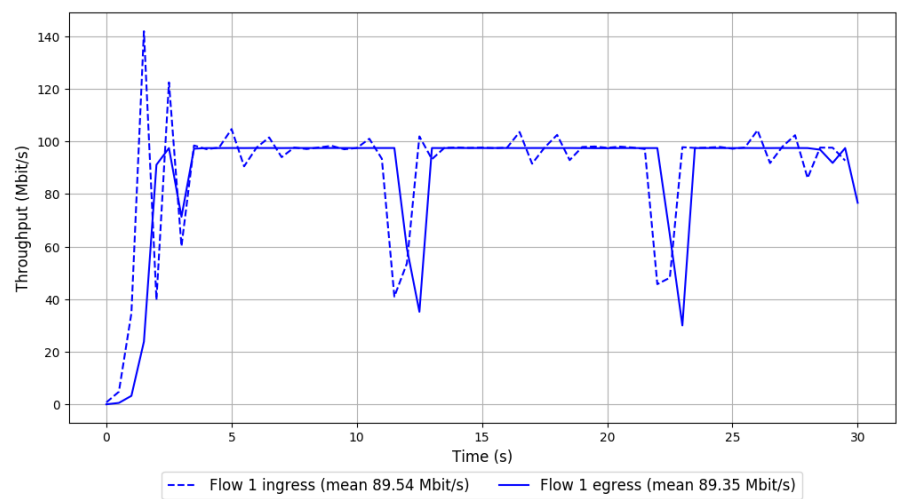
-- Flow 1:

Average throughput: 89.35 Mbit/s

95th percentile per-packet one-way delay: 140.461 ms

Loss rate: 0.79%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-03-19 08:52:40

End at: 2019-03-19 08:53:10

Local clock offset: -8.705 ms

Remote clock offset: 8.08 ms

Below is generated by plot.py at 2019-03-19 10:44:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.72 Mbit/s

95th percentile per-packet one-way delay: 211.897 ms

Loss rate: 4.27%

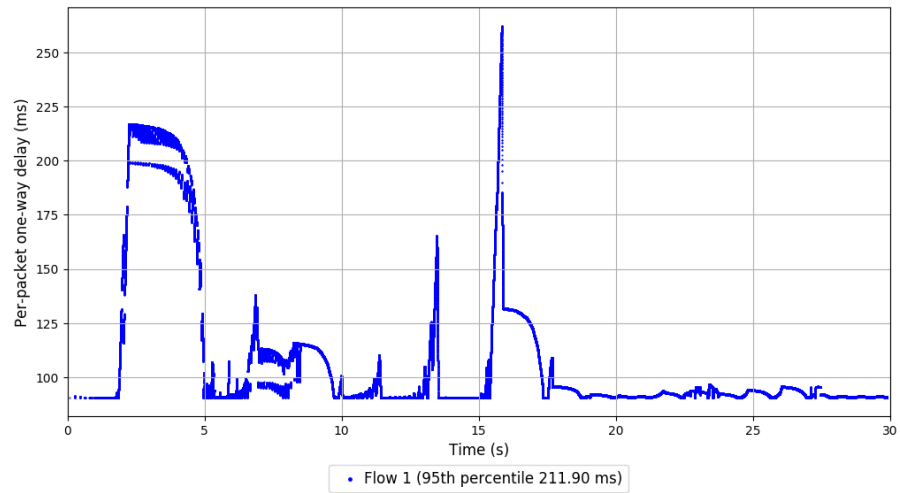
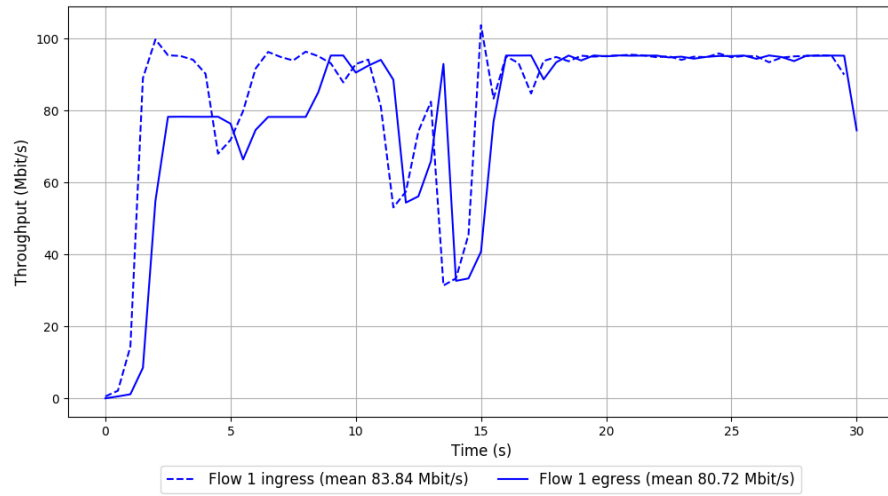
-- Flow 1:

Average throughput: 80.72 Mbit/s

95th percentile per-packet one-way delay: 211.897 ms

Loss rate: 4.27%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-03-19 09:17:46

End at: 2019-03-19 09:18:16

Local clock offset: -8.257 ms

Remote clock offset: 6.401 ms

Below is generated by plot.py at 2019-03-19 10:44:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.85 Mbit/s

95th percentile per-packet one-way delay: 215.502 ms

Loss rate: 0.94%

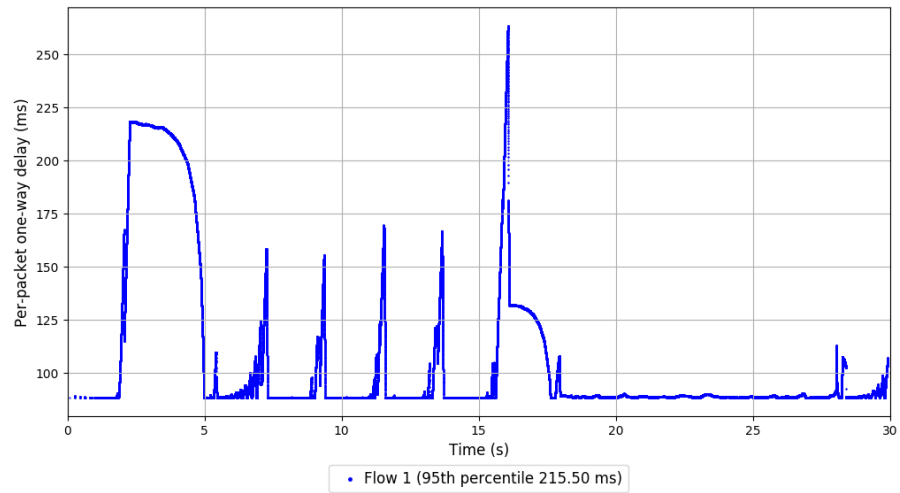
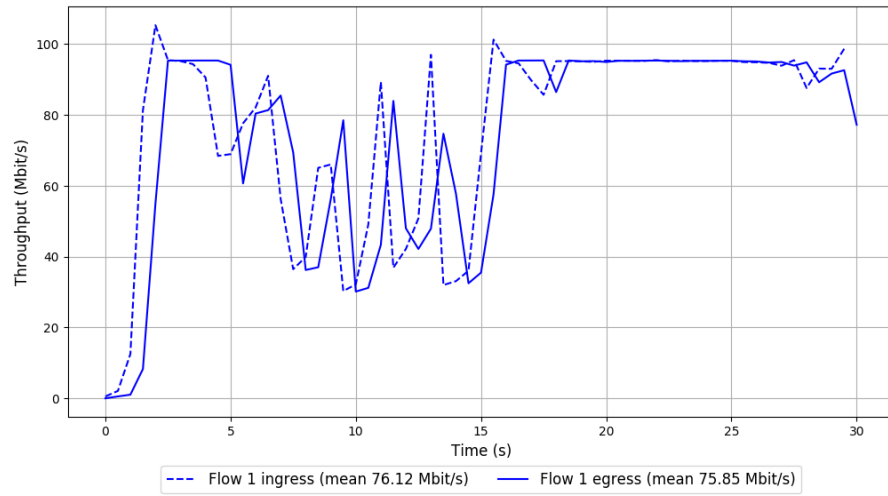
-- Flow 1:

Average throughput: 75.85 Mbit/s

95th percentile per-packet one-way delay: 215.502 ms

Loss rate: 0.94%

Run 2: Report of Copa — Data Link

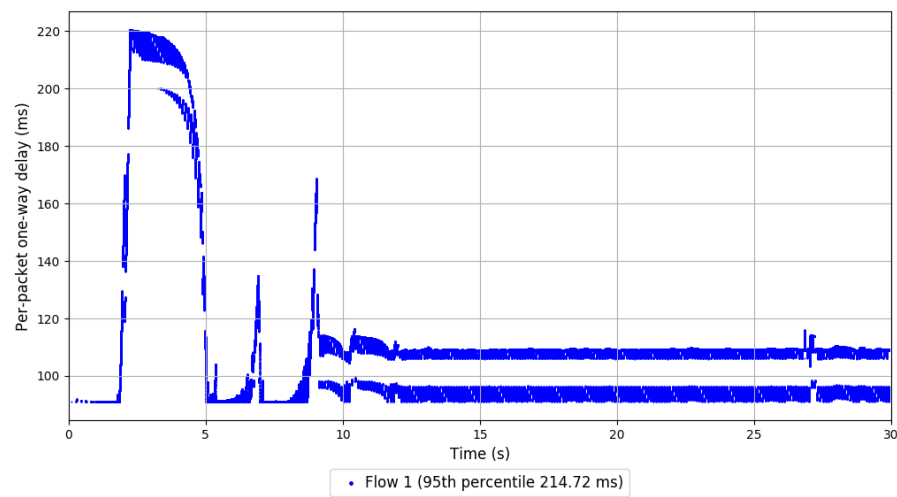
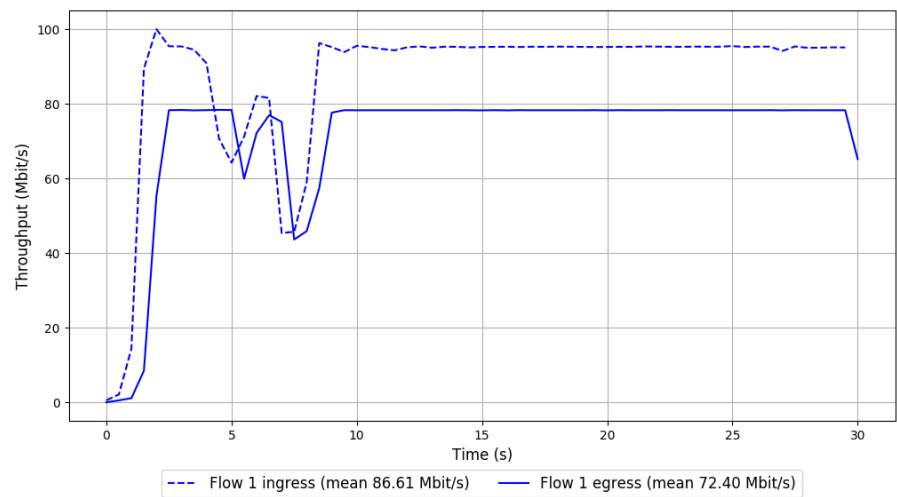


Run 3: Statistics of Copa

Start at: 2019-03-19 09:42:44
End at: 2019-03-19 09:43:14
Local clock offset: -7.135 ms
Remote clock offset: 2.958 ms

Below is generated by plot.py at 2019-03-19 10:44:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.40 Mbit/s
95th percentile per-packet one-way delay: 214.720 ms
Loss rate: 16.88%
-- Flow 1:
Average throughput: 72.40 Mbit/s
95th percentile per-packet one-way delay: 214.720 ms
Loss rate: 16.88%

Run 3: Report of Copa — Data Link

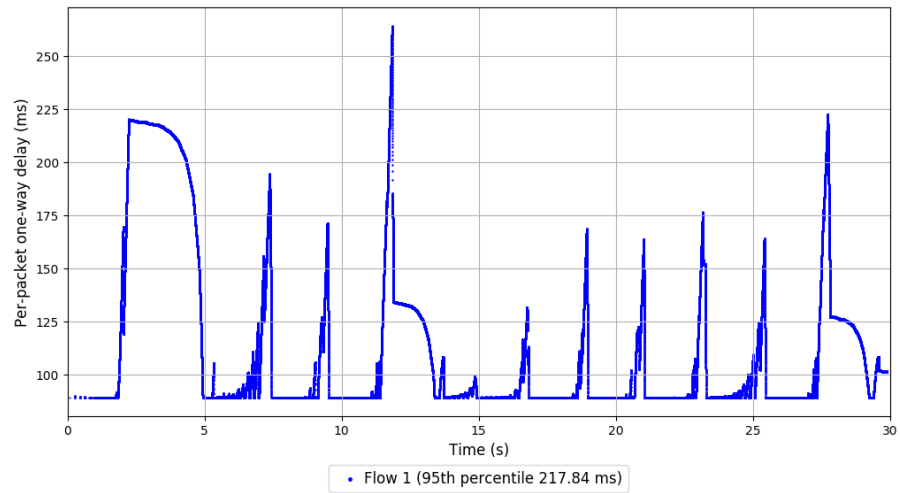
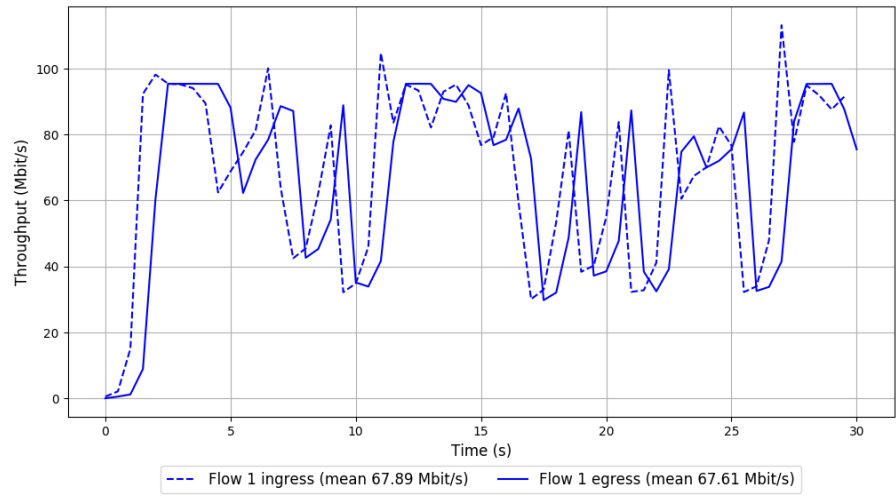


Run 4: Statistics of Copa

Start at: 2019-03-19 10:07:48
End at: 2019-03-19 10:08:18
Local clock offset: -7.049 ms
Remote clock offset: 4.689 ms

Below is generated by plot.py at 2019-03-19 10:44:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 67.61 Mbit/s
95th percentile per-packet one-way delay: 217.841 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 67.61 Mbit/s
95th percentile per-packet one-way delay: 217.841 ms
Loss rate: 0.98%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-03-19 10:32:45

End at: 2019-03-19 10:33:15

Local clock offset: -6.973 ms

Remote clock offset: 0.689 ms

Below is generated by plot.py at 2019-03-19 10:44:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.90 Mbit/s

95th percentile per-packet one-way delay: 219.689 ms

Loss rate: 0.88%

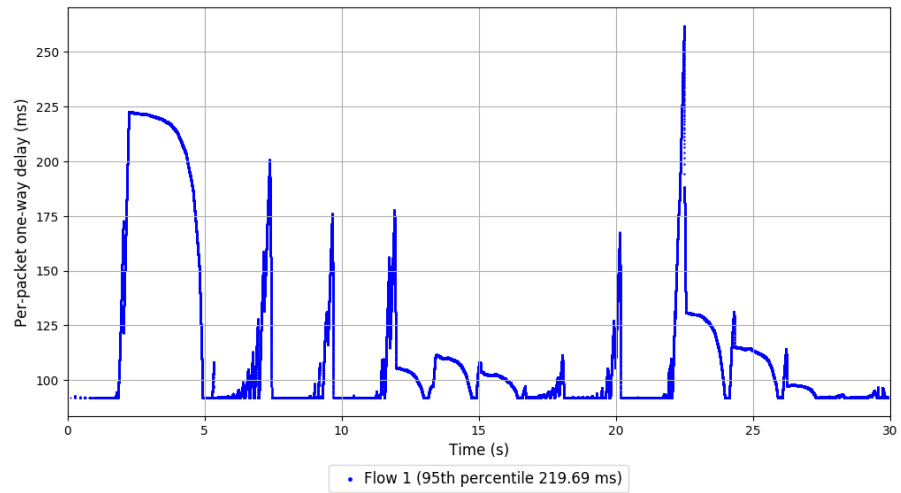
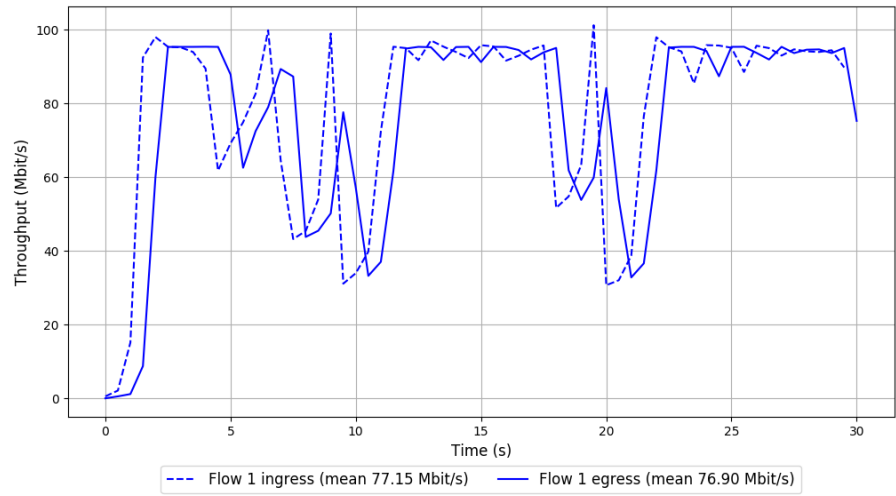
-- Flow 1:

Average throughput: 76.90 Mbit/s

95th percentile per-packet one-way delay: 219.689 ms

Loss rate: 0.88%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-03-19 08:50:14

End at: 2019-03-19 08:50:44

Local clock offset: -7.985 ms

Remote clock offset: 8.231 ms

Below is generated by plot.py at 2019-03-19 10:44:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.14 Mbit/s

95th percentile per-packet one-way delay: 91.493 ms

Loss rate: 1.18%

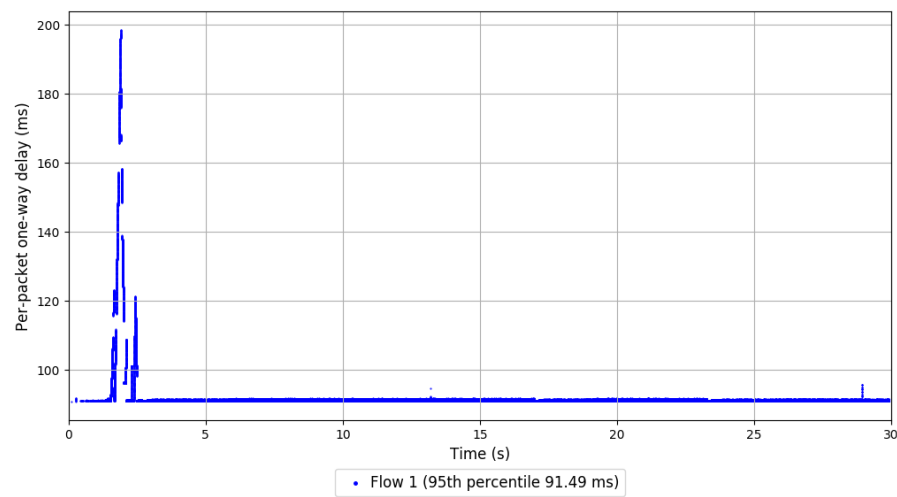
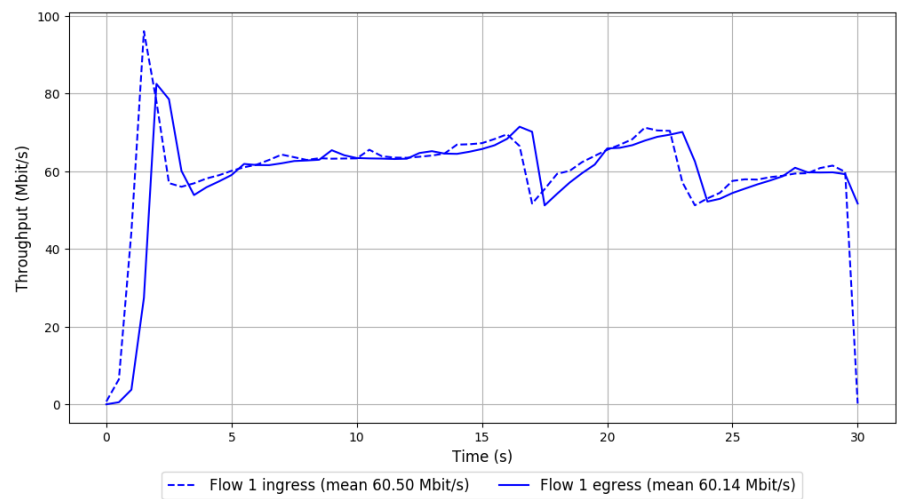
-- Flow 1:

Average throughput: 60.14 Mbit/s

95th percentile per-packet one-way delay: 91.493 ms

Loss rate: 1.18%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-03-19 09:15:18

End at: 2019-03-19 09:15:48

Local clock offset: -9.336 ms

Remote clock offset: 5.521 ms

Below is generated by plot.py at 2019-03-19 10:44:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.79 Mbit/s

95th percentile per-packet one-way delay: 102.515 ms

Loss rate: 0.64%

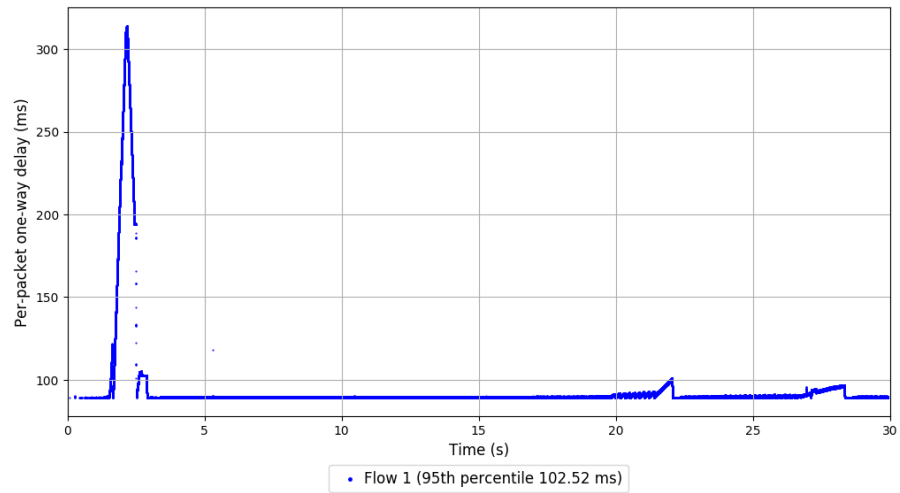
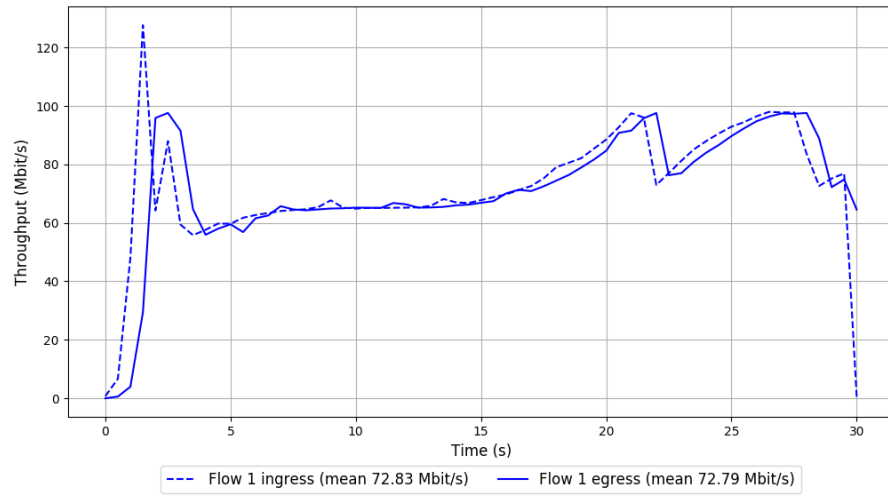
-- Flow 1:

Average throughput: 72.79 Mbit/s

95th percentile per-packet one-way delay: 102.515 ms

Loss rate: 0.64%

Run 2: Report of TCP Cubic — Data Link

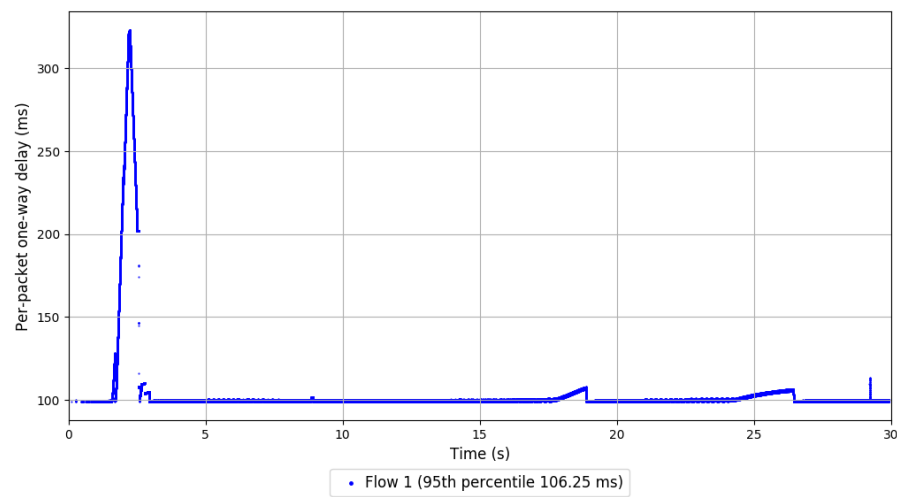
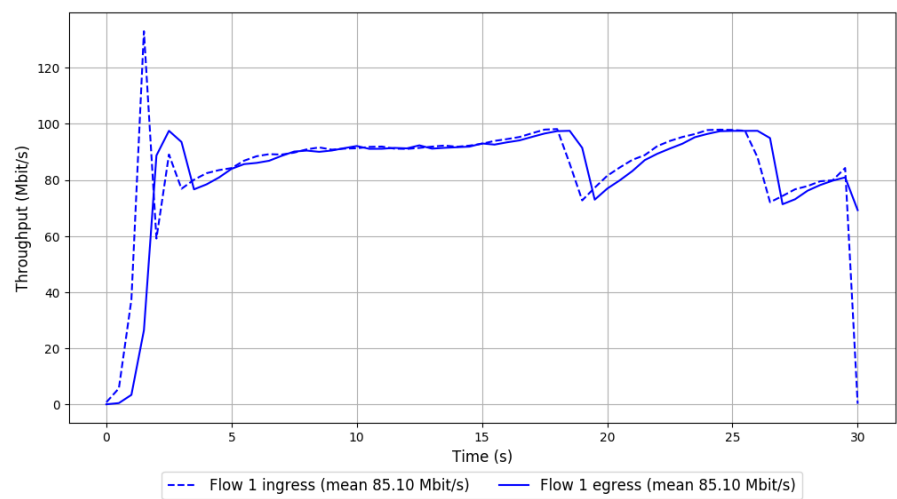


Run 3: Statistics of TCP Cubic

Start at: 2019-03-19 09:40:17
End at: 2019-03-19 09:40:47
Local clock offset: -7.171 ms
Remote clock offset: -0.154 ms

Below is generated by plot.py at 2019-03-19 10:44:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.10 Mbit/s
95th percentile per-packet one-way delay: 106.245 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 85.10 Mbit/s
95th percentile per-packet one-way delay: 106.245 ms
Loss rate: 0.59%

Run 3: Report of TCP Cubic — Data Link

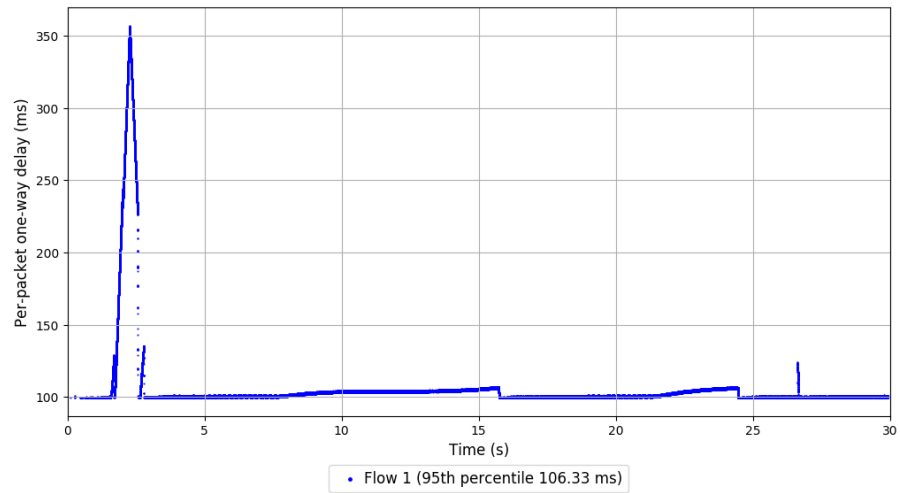
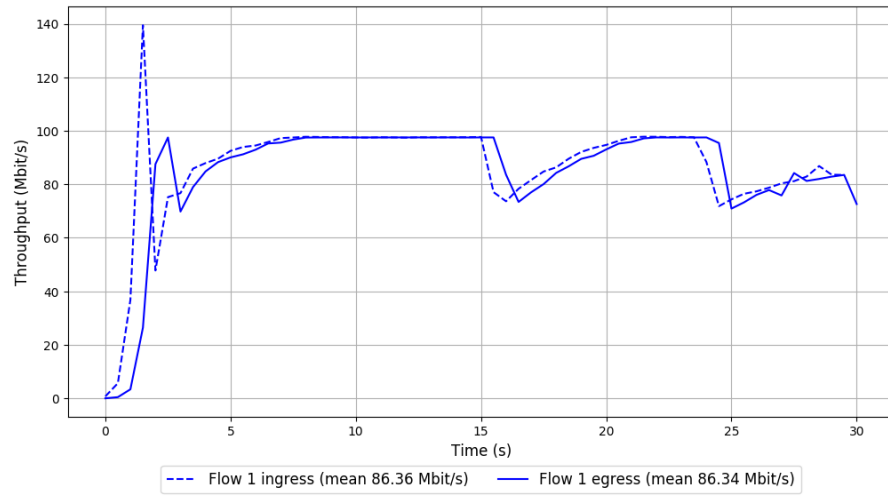


Run 4: Statistics of TCP Cubic

Start at: 2019-03-19 10:05:21
End at: 2019-03-19 10:05:51
Local clock offset: -7.864 ms
Remote clock offset: -0.287 ms

Below is generated by plot.py at 2019-03-19 10:44:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.34 Mbit/s
95th percentile per-packet one-way delay: 106.326 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 86.34 Mbit/s
95th percentile per-packet one-way delay: 106.326 ms
Loss rate: 0.61%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

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

End at: 2019-03-19 10:30:49

Local clock offset: -6.954 ms

Remote clock offset: 3.304 ms

Below is generated by plot.py at 2019-03-19 10:44:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.47 Mbit/s

95th percentile per-packet one-way delay: 110.509 ms

Loss rate: 0.71%

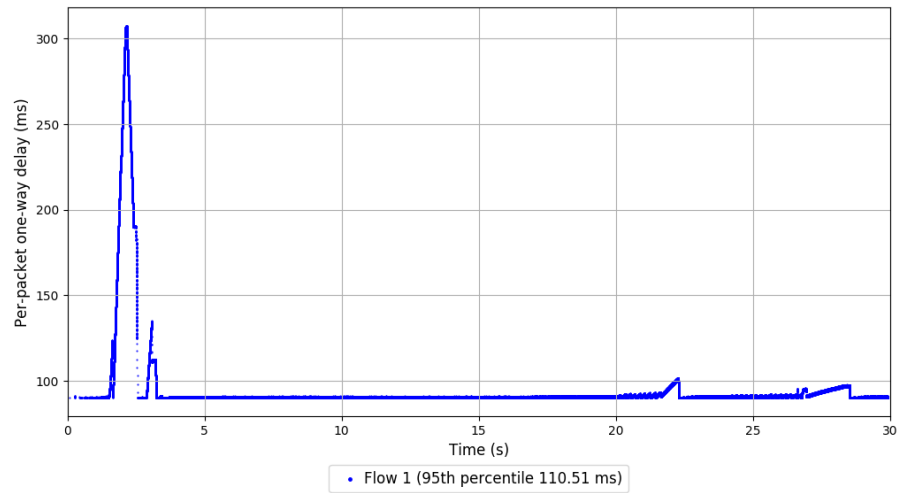
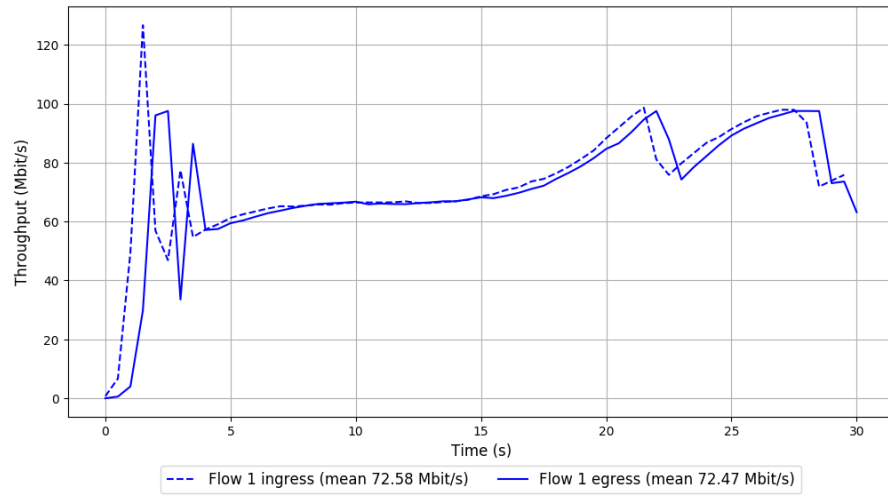
-- Flow 1:

Average throughput: 72.47 Mbit/s

95th percentile per-packet one-way delay: 110.509 ms

Loss rate: 0.71%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-03-19 08:55:09

End at: 2019-03-19 08:55:39

Local clock offset: -8.016 ms

Remote clock offset: 8.239 ms

Below is generated by plot.py at 2019-03-19 10:45:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.96 Mbit/s

95th percentile per-packet one-way delay: 108.710 ms

Loss rate: 0.60%

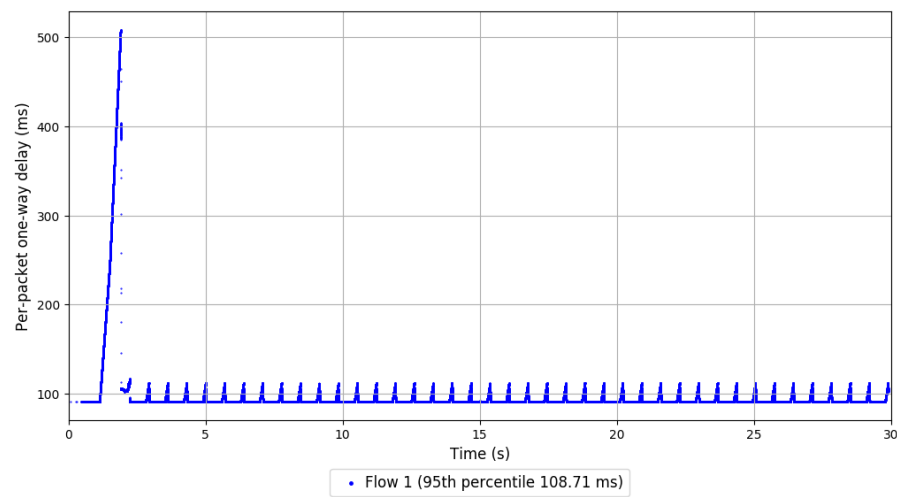
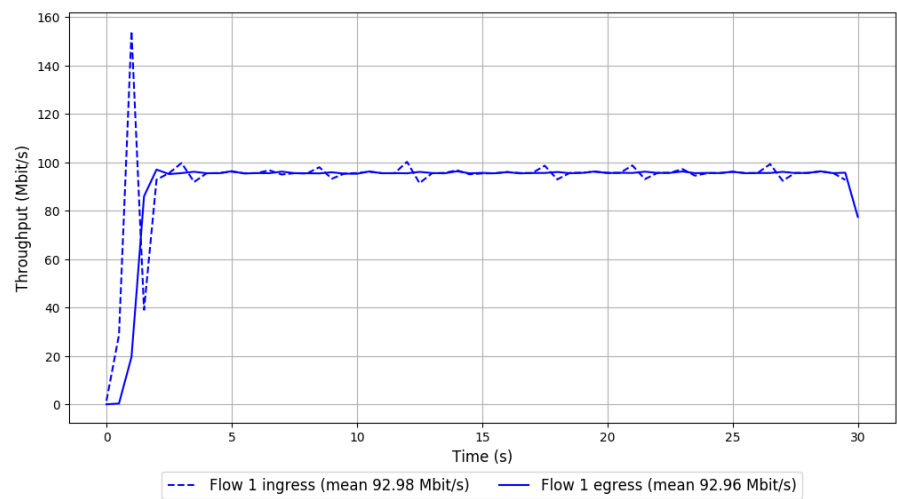
-- Flow 1:

Average throughput: 92.96 Mbit/s

95th percentile per-packet one-way delay: 108.710 ms

Loss rate: 0.60%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-03-19 09:20:14

End at: 2019-03-19 09:20:44

Local clock offset: -7.946 ms

Remote clock offset: 3.794 ms

Below is generated by plot.py at 2019-03-19 10:45:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.89 Mbit/s

95th percentile per-packet one-way delay: 108.316 ms

Loss rate: 0.61%

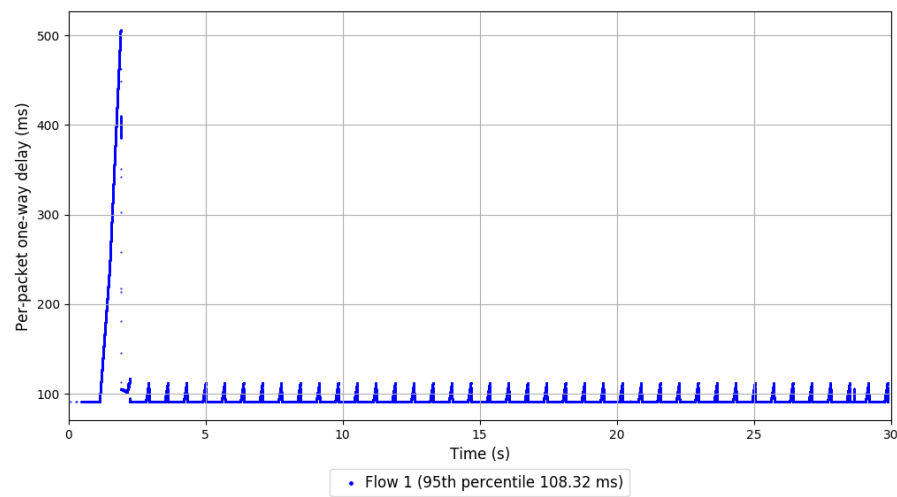
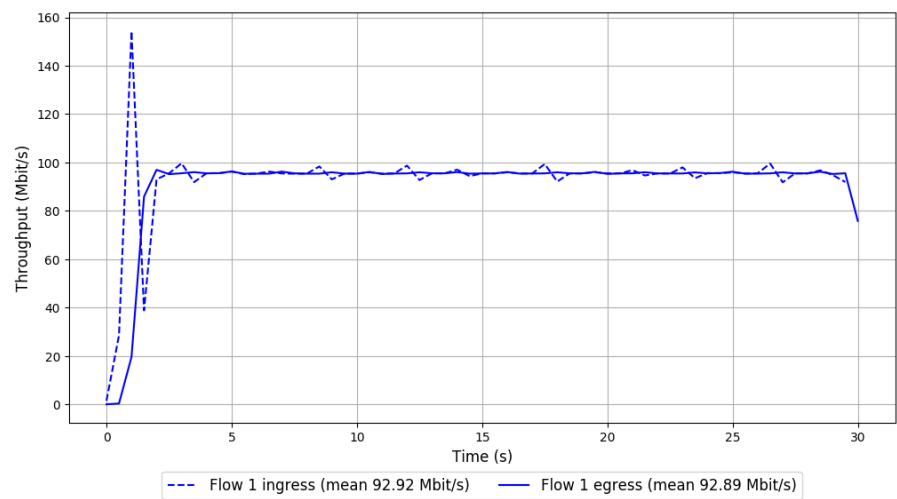
-- Flow 1:

Average throughput: 92.89 Mbit/s

95th percentile per-packet one-way delay: 108.316 ms

Loss rate: 0.61%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-03-19 09:45:14

End at: 2019-03-19 09:45:44

Local clock offset: -7.943 ms

Remote clock offset: 2.951 ms

Below is generated by plot.py at 2019-03-19 10:45:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.77 Mbit/s

95th percentile per-packet one-way delay: 109.152 ms

Loss rate: 0.63%

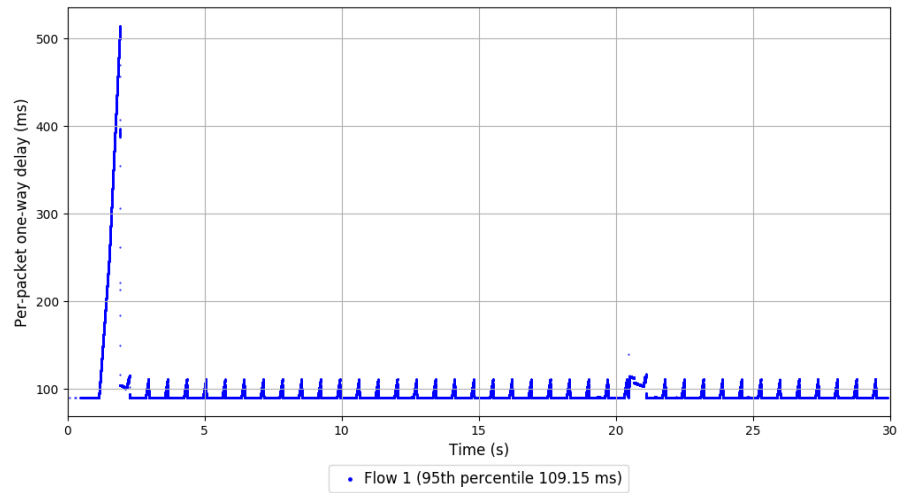
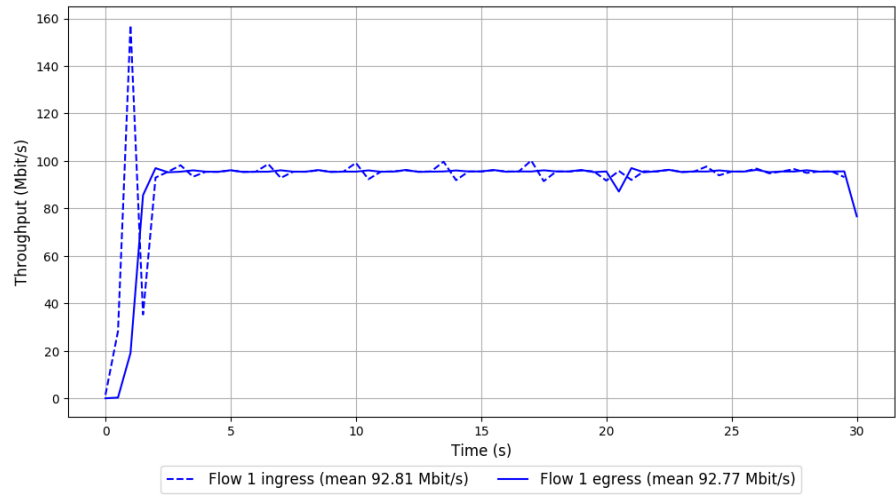
-- Flow 1:

Average throughput: 92.77 Mbit/s

95th percentile per-packet one-way delay: 109.152 ms

Loss rate: 0.63%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

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

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

Local clock offset: -7.837 ms

Remote clock offset: 4.515 ms

Below is generated by plot.py at 2019-03-19 10:45:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.83 Mbit/s

95th percentile per-packet one-way delay: 107.184 ms

Loss rate: 0.72%

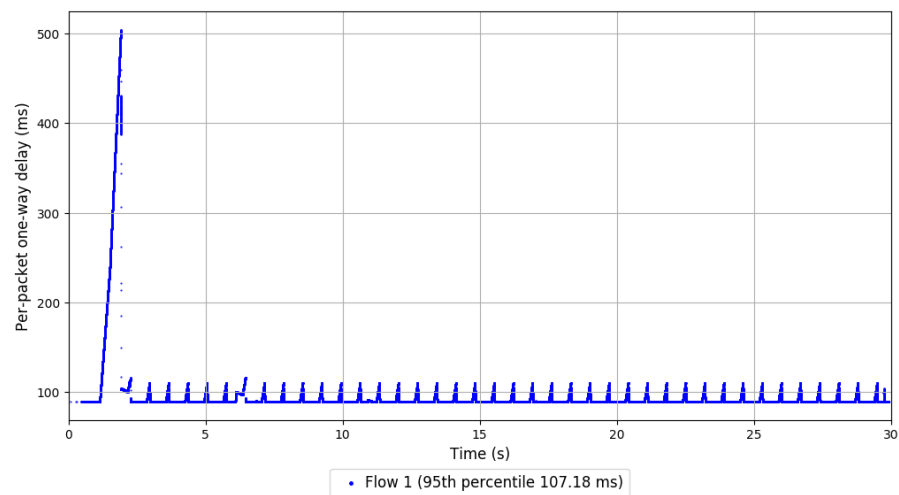
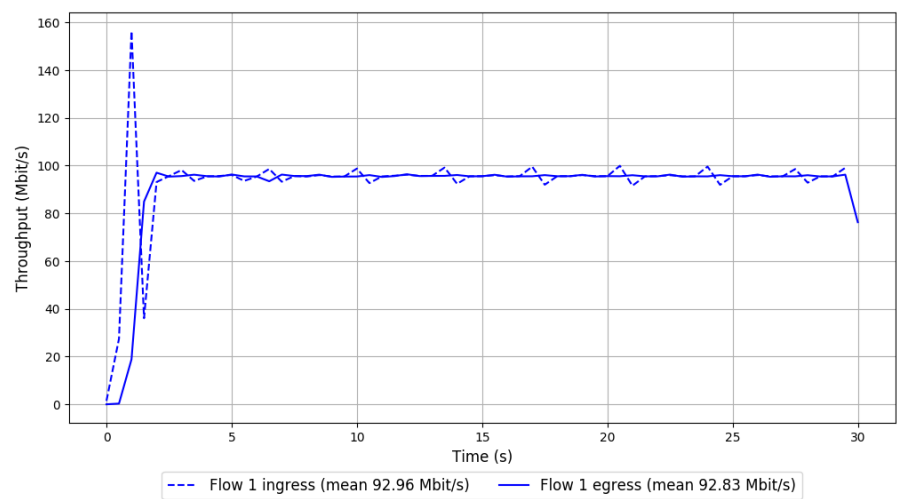
-- Flow 1:

Average throughput: 92.83 Mbit/s

95th percentile per-packet one-way delay: 107.184 ms

Loss rate: 0.72%

Run 4: Report of FillP — Data Link

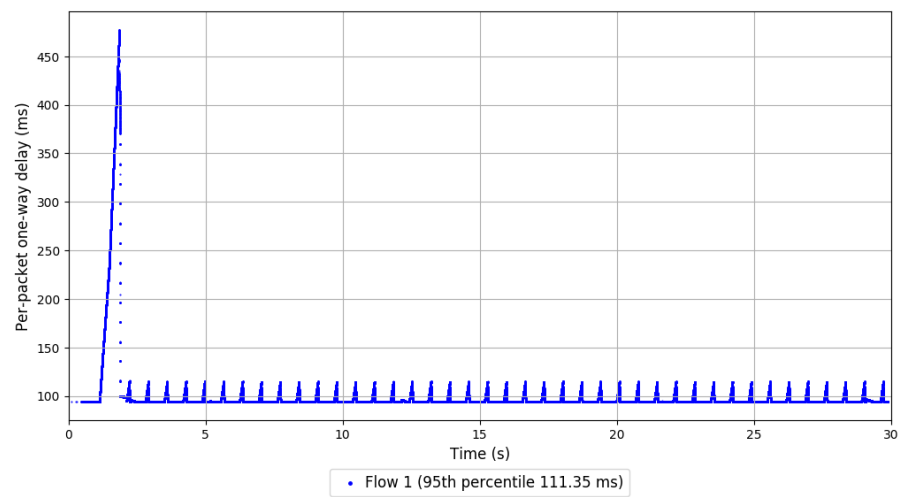
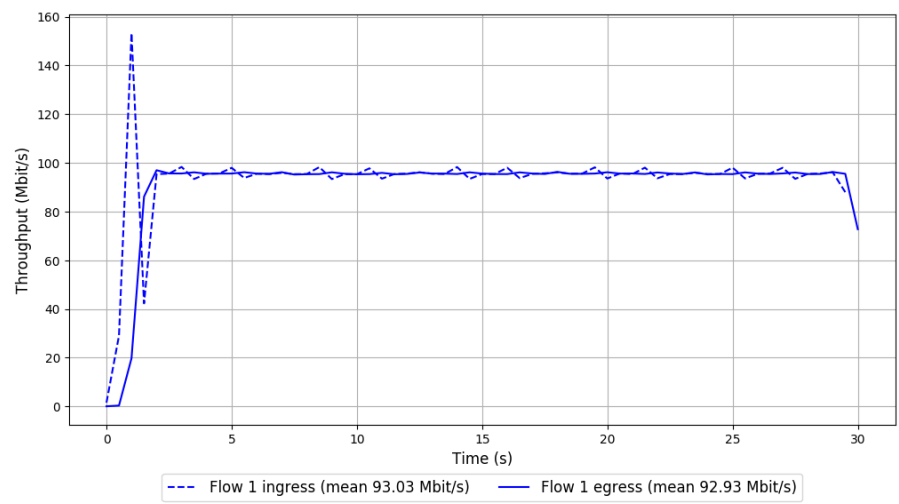


Run 5: Statistics of FillP

Start at: 2019-03-19 10:35:12
End at: 2019-03-19 10:35:42
Local clock offset: -6.116 ms
Remote clock offset: -0.688 ms

Below is generated by plot.py at 2019-03-19 10:45:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.93 Mbit/s
95th percentile per-packet one-way delay: 111.348 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 92.93 Mbit/s
95th percentile per-packet one-way delay: 111.348 ms
Loss rate: 0.68%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

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

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

Local clock offset: -8.088 ms

Remote clock offset: 4.762 ms

Below is generated by plot.py at 2019-03-19 10:46:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.22 Mbit/s

95th percentile per-packet one-way delay: 114.623 ms

Loss rate: 0.63%

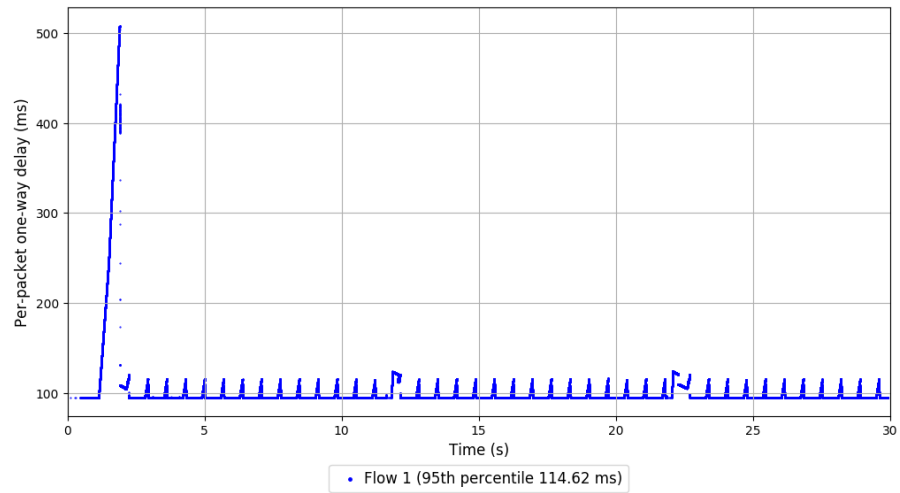
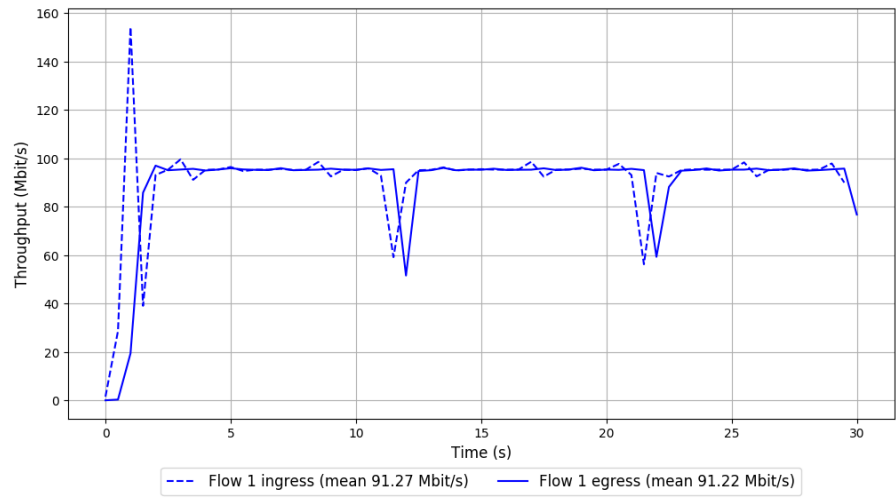
-- Flow 1:

Average throughput: 91.22 Mbit/s

95th percentile per-packet one-way delay: 114.623 ms

Loss rate: 0.63%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-03-19 09:23:48

End at: 2019-03-19 09:24:18

Local clock offset: -7.553 ms

Remote clock offset: 5.4 ms

Below is generated by plot.py at 2019-03-19 10:46:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.12 Mbit/s

95th percentile per-packet one-way delay: 109.665 ms

Loss rate: 1.00%

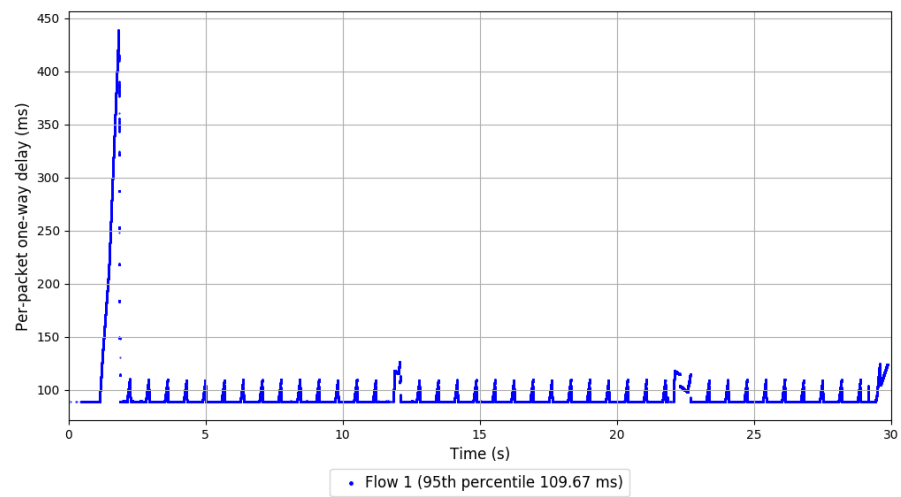
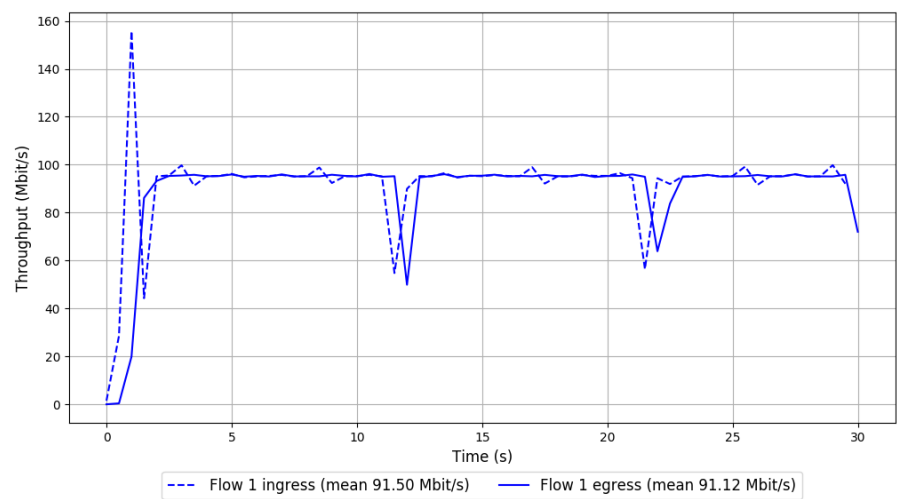
-- Flow 1:

Average throughput: 91.12 Mbit/s

95th percentile per-packet one-way delay: 109.665 ms

Loss rate: 1.00%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-03-19 09:48:49

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

Local clock offset: -7.836 ms

Remote clock offset: 5.477 ms

Below is generated by plot.py at 2019-03-19 10:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.22 Mbit/s

95th percentile per-packet one-way delay: 107.886 ms

Loss rate: 0.65%

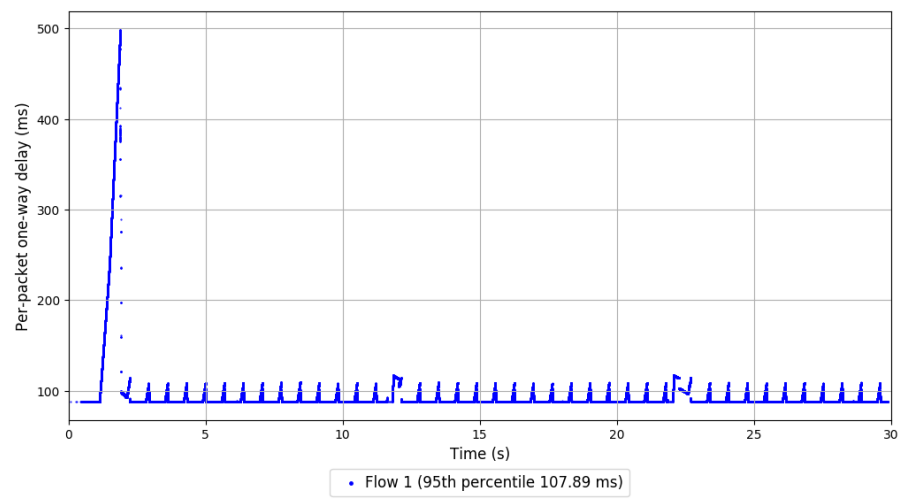
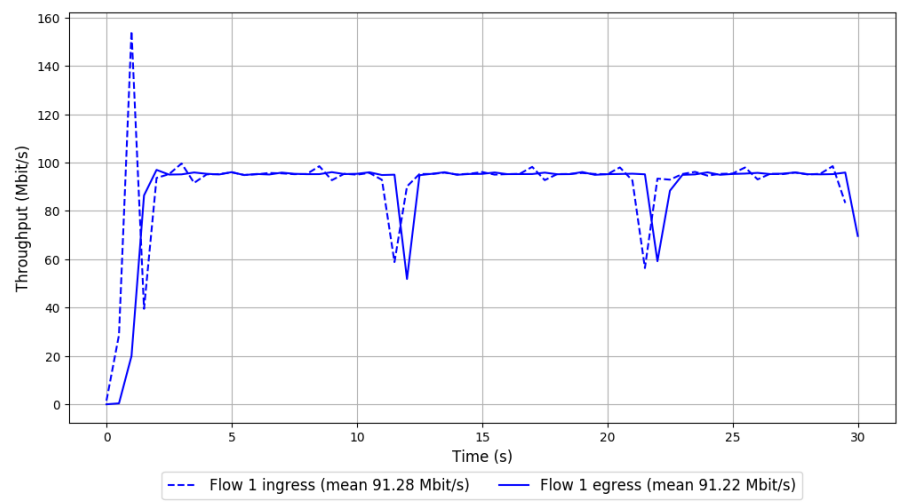
-- Flow 1:

Average throughput: 91.22 Mbit/s

95th percentile per-packet one-way delay: 107.886 ms

Loss rate: 0.65%

Run 3: Report of FillP-Sheep — Data Link

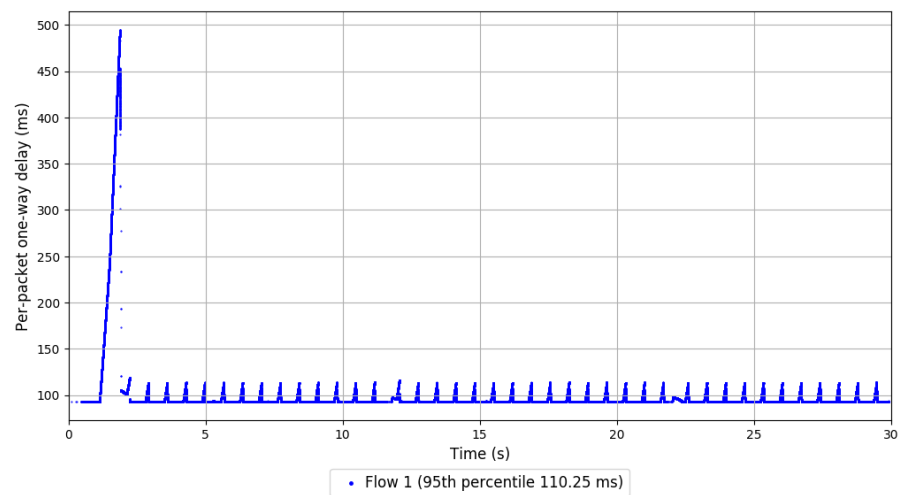
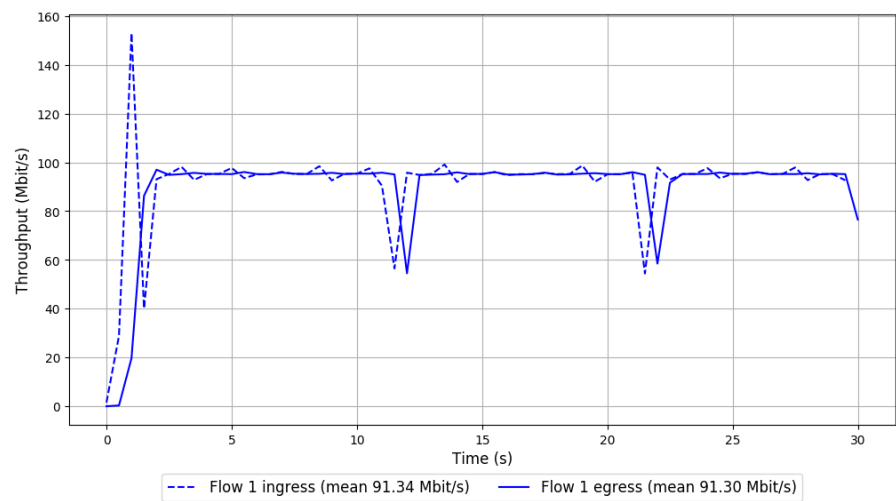


Run 4: Statistics of FillP-Sheep

Start at: 2019-03-19 10:13:50
End at: 2019-03-19 10:14:20
Local clock offset: -7.133 ms
Remote clock offset: 0.82 ms

Below is generated by plot.py at 2019-03-19 10:46:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.30 Mbit/s
95th percentile per-packet one-way delay: 110.254 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 91.30 Mbit/s
95th percentile per-packet one-way delay: 110.254 ms
Loss rate: 0.63%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-03-19 10:38:47

End at: 2019-03-19 10:39:17

Local clock offset: -6.043 ms

Remote clock offset: 5.818 ms

Below is generated by plot.py at 2019-03-19 10:46:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.28 Mbit/s

95th percentile per-packet one-way delay: 106.161 ms

Loss rate: 0.64%

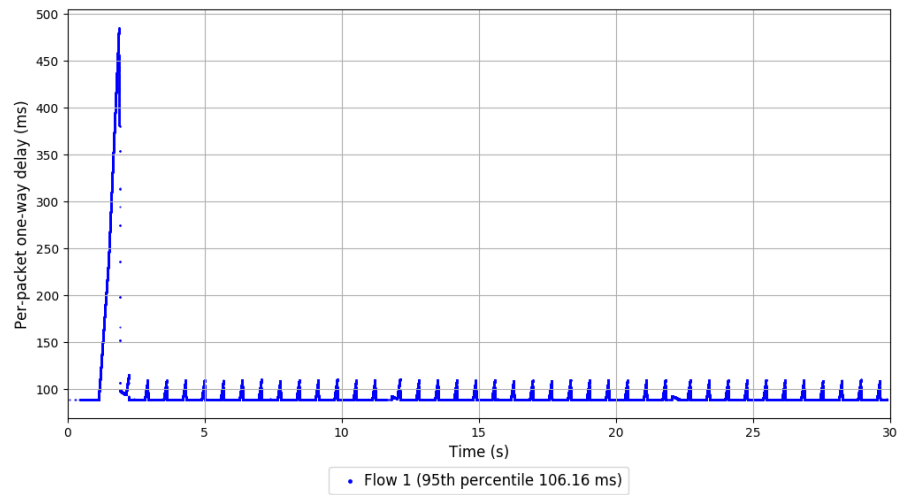
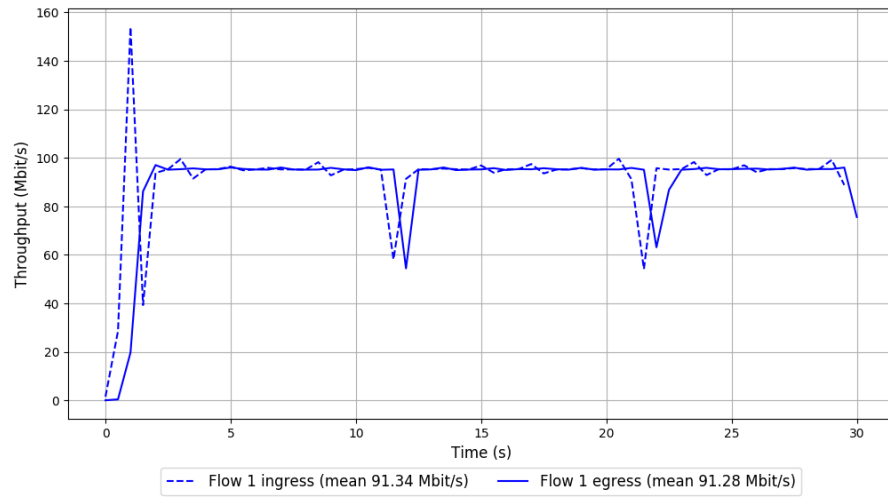
-- Flow 1:

Average throughput: 91.28 Mbit/s

95th percentile per-packet one-way delay: 106.161 ms

Loss rate: 0.64%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-03-19 08:53:55

End at: 2019-03-19 08:54:25

Local clock offset: -8.71 ms

Remote clock offset: 4.472 ms

Below is generated by plot.py at 2019-03-19 10:46:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.64 Mbit/s

95th percentile per-packet one-way delay: 189.836 ms

Loss rate: 3.91%

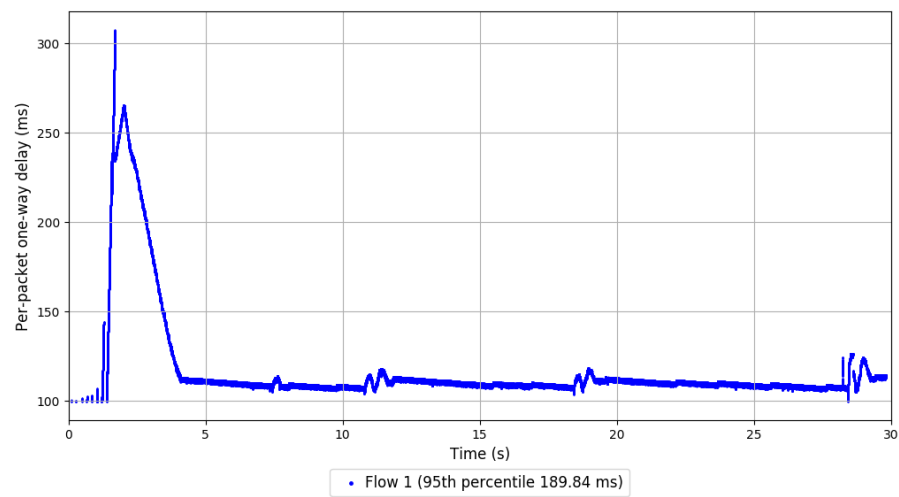
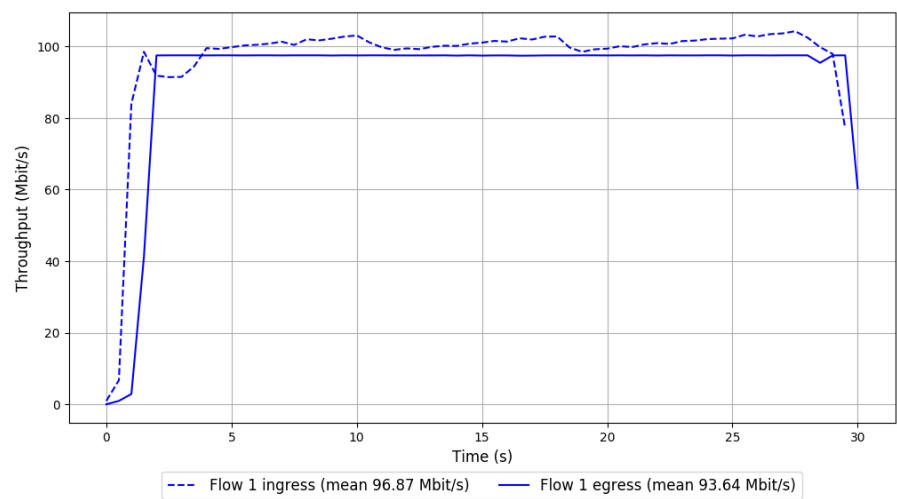
-- Flow 1:

Average throughput: 93.64 Mbit/s

95th percentile per-packet one-way delay: 189.836 ms

Loss rate: 3.91%

Run 1: Report of Indigo — Data Link

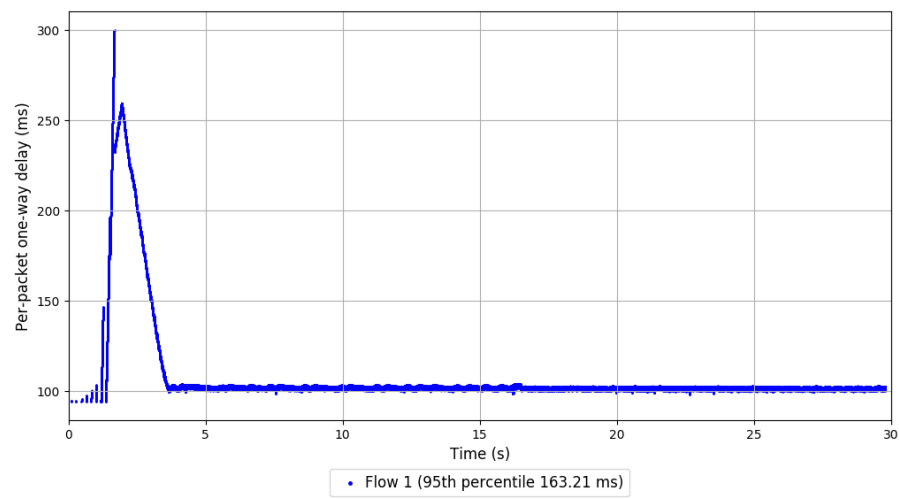
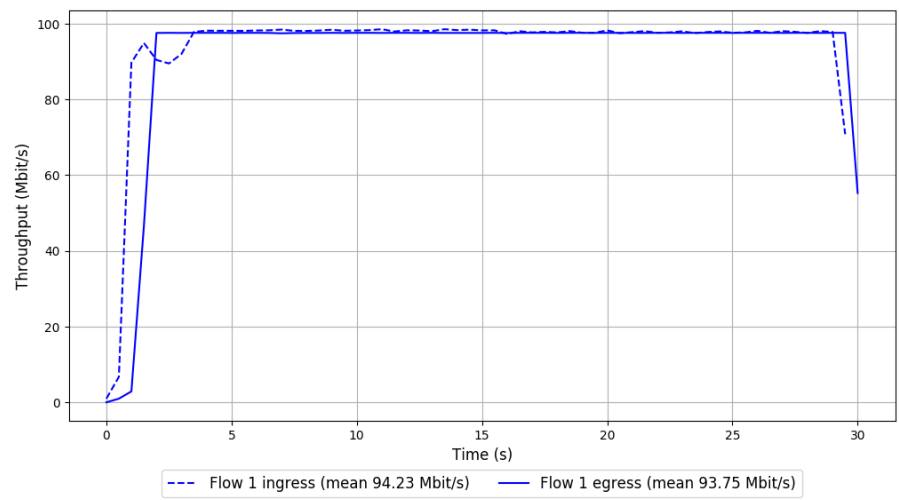


Run 2: Statistics of Indigo

Start at: 2019-03-19 09:19:00
End at: 2019-03-19 09:19:30
Local clock offset: -8.842 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2019-03-19 10:46:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.75 Mbit/s
95th percentile per-packet one-way delay: 163.213 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 93.75 Mbit/s
95th percentile per-packet one-way delay: 163.213 ms
Loss rate: 1.08%

Run 2: Report of Indigo — Data Link

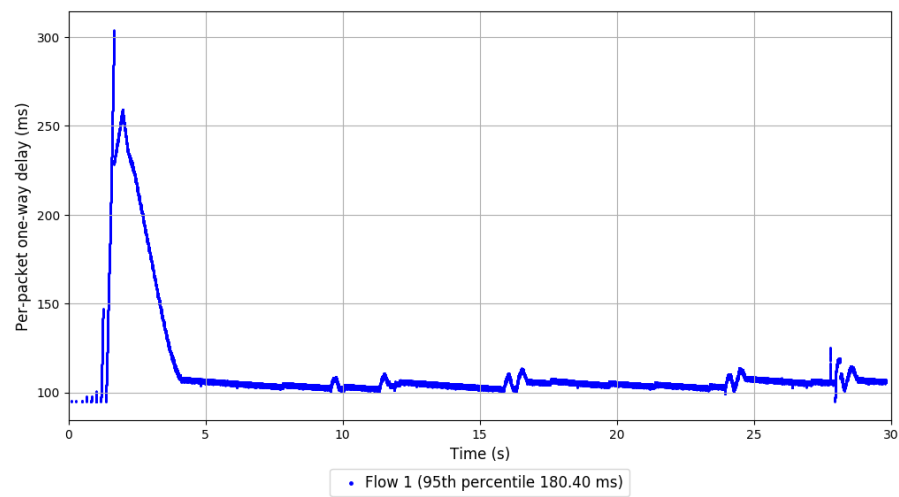
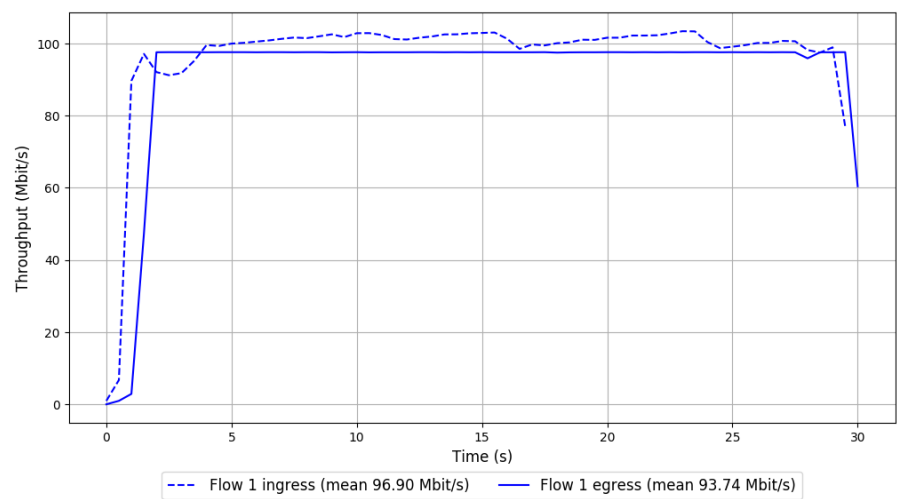


Run 3: Statistics of Indigo

Start at: 2019-03-19 09:43:59
End at: 2019-03-19 09:44:29
Local clock offset: -7.181 ms
Remote clock offset: -0.913 ms

Below is generated by plot.py at 2019-03-19 10:47:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.74 Mbit/s
95th percentile per-packet one-way delay: 180.399 ms
Loss rate: 3.82%
-- Flow 1:
Average throughput: 93.74 Mbit/s
95th percentile per-packet one-way delay: 180.399 ms
Loss rate: 3.82%

Run 3: Report of Indigo — Data Link

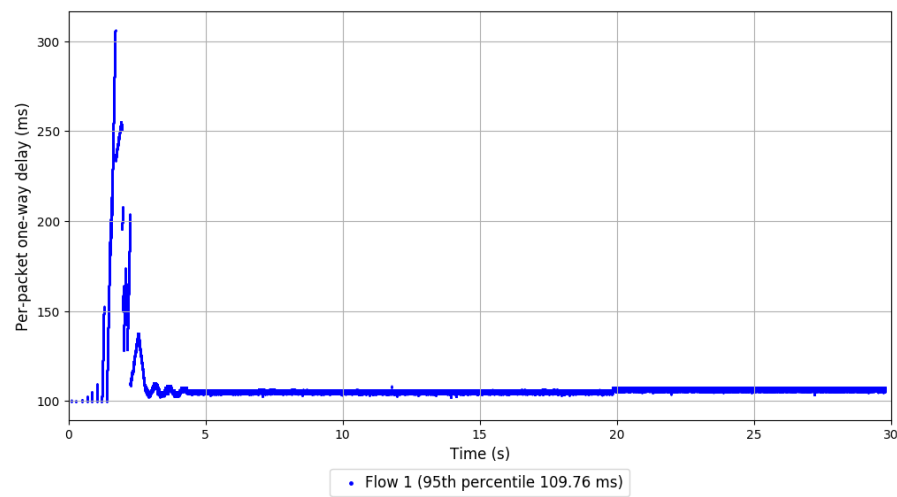
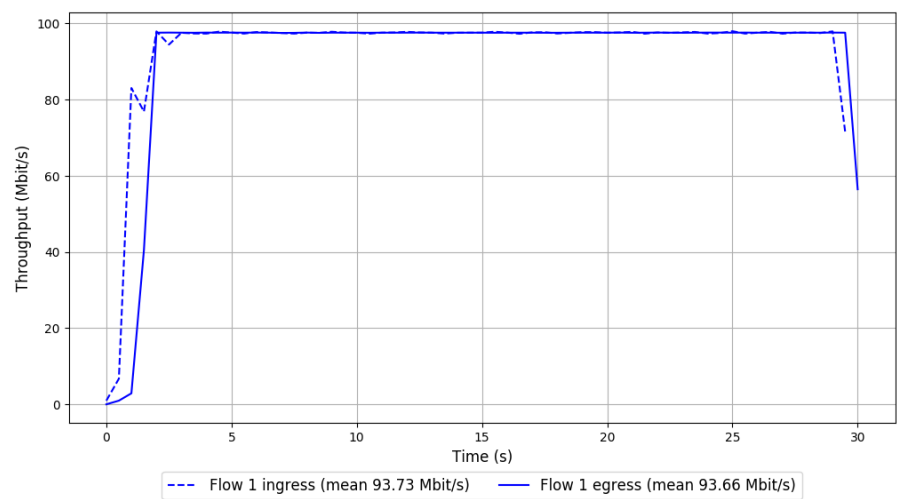


Run 4: Statistics of Indigo

Start at: 2019-03-19 10:09:02
End at: 2019-03-19 10:09:32
Local clock offset: -7.831 ms
Remote clock offset: -0.361 ms

Below is generated by plot.py at 2019-03-19 10:47:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.66 Mbit/s
95th percentile per-packet one-way delay: 109.762 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 93.66 Mbit/s
95th percentile per-packet one-way delay: 109.762 ms
Loss rate: 0.68%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-03-19 10:33:59

End at: 2019-03-19 10:34:29

Local clock offset: -6.124 ms

Remote clock offset: 0.508 ms

Below is generated by plot.py at 2019-03-19 10:47:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.11 Mbit/s

95th percentile per-packet one-way delay: 150.054 ms

Loss rate: 0.77%

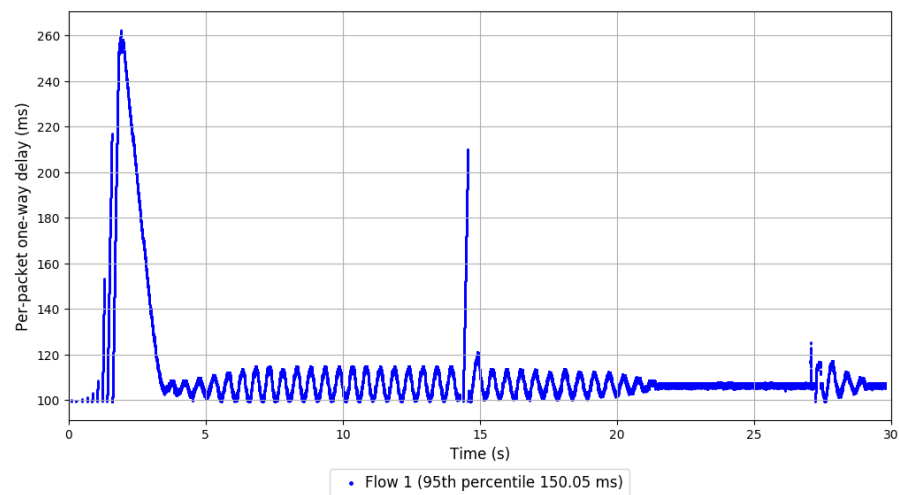
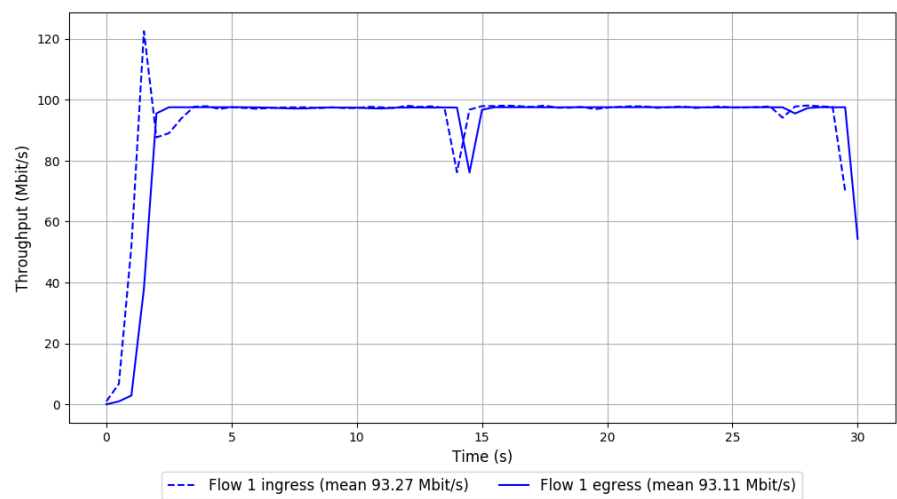
-- Flow 1:

Average throughput: 93.11 Mbit/s

95th percentile per-packet one-way delay: 150.054 ms

Loss rate: 0.77%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-03-19 08:57:32

End at: 2019-03-19 08:58:02

Local clock offset: -8.764 ms

Remote clock offset: 4.603 ms

Below is generated by plot.py at 2019-03-19 10:47:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.00 Mbit/s

95th percentile per-packet one-way delay: 112.719 ms

Loss rate: 6.53%

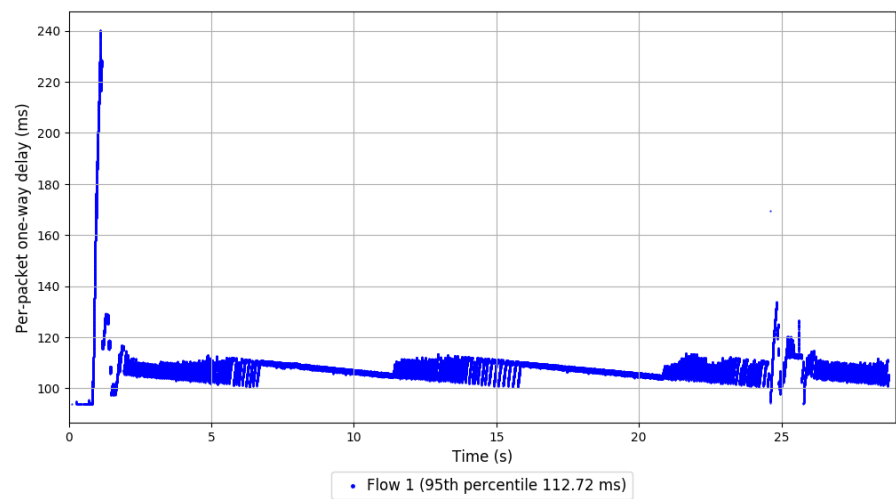
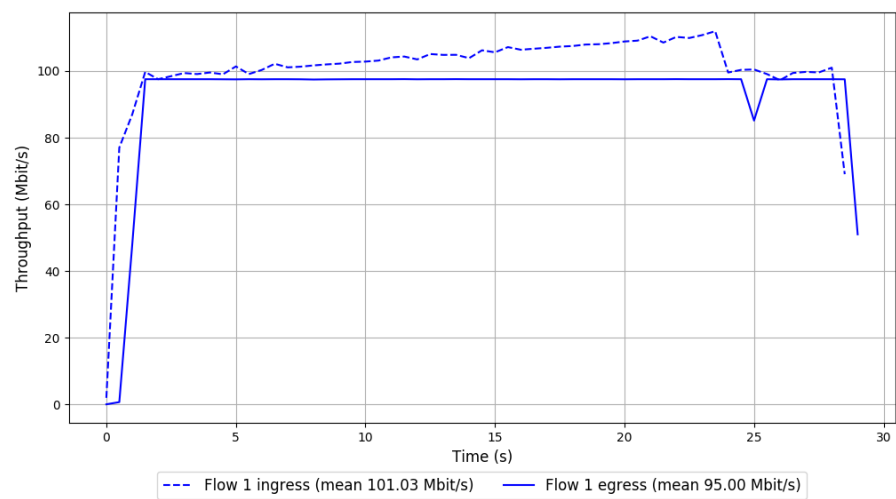
-- Flow 1:

Average throughput: 95.00 Mbit/s

95th percentile per-packet one-way delay: 112.719 ms

Loss rate: 6.53%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-03-19 09:22:36

End at: 2019-03-19 09:23:06

Local clock offset: -8.428 ms

Remote clock offset: 3.398 ms

Below is generated by plot.py at 2019-03-19 10:47:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.16 Mbit/s

95th percentile per-packet one-way delay: 109.050 ms

Loss rate: 6.78%

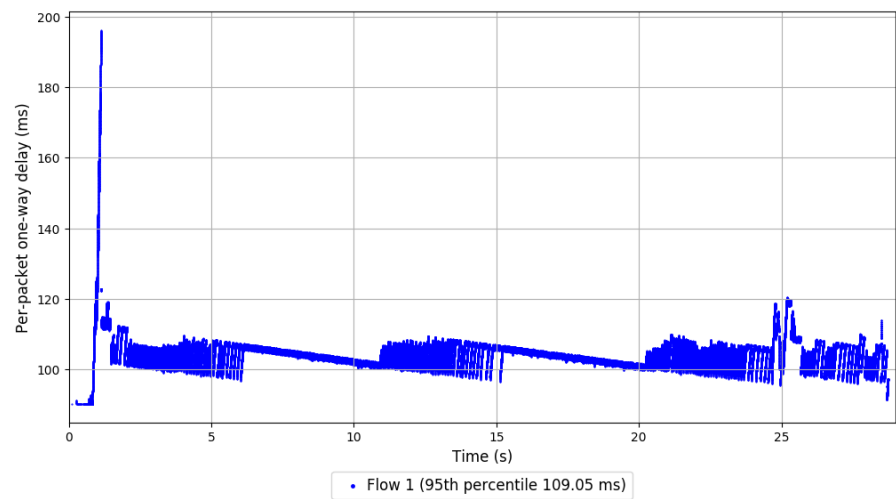
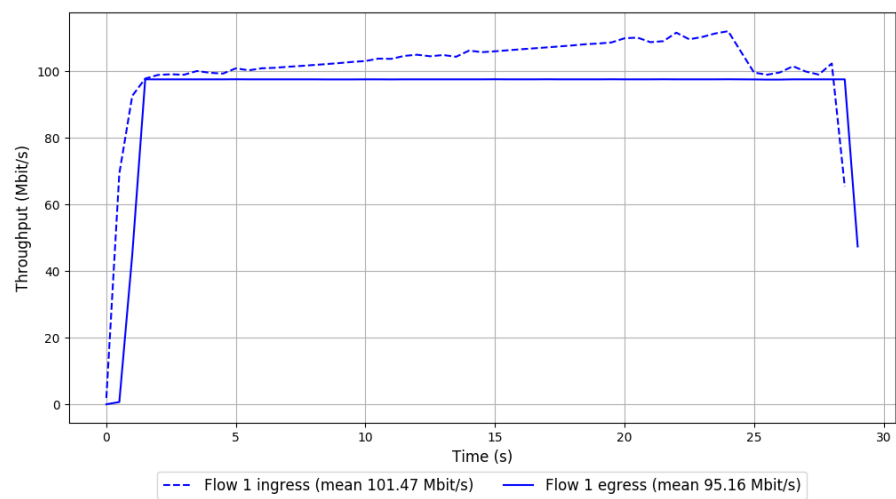
-- Flow 1:

Average throughput: 95.16 Mbit/s

95th percentile per-packet one-way delay: 109.050 ms

Loss rate: 6.78%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-03-19 09:47:37

End at: 2019-03-19 09:48:07

Local clock offset: -7.091 ms

Remote clock offset: 4.275 ms

Below is generated by plot.py at 2019-03-19 10:47:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.09 Mbit/s

95th percentile per-packet one-way delay: 115.945 ms

Loss rate: 7.42%

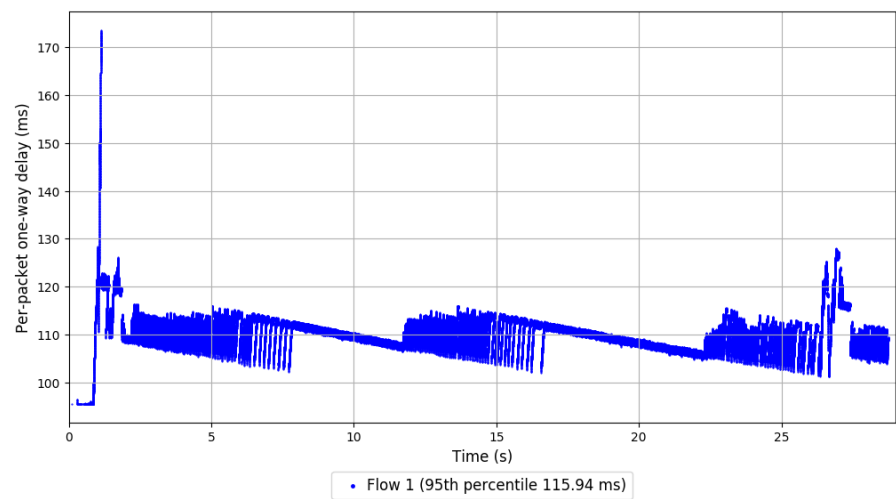
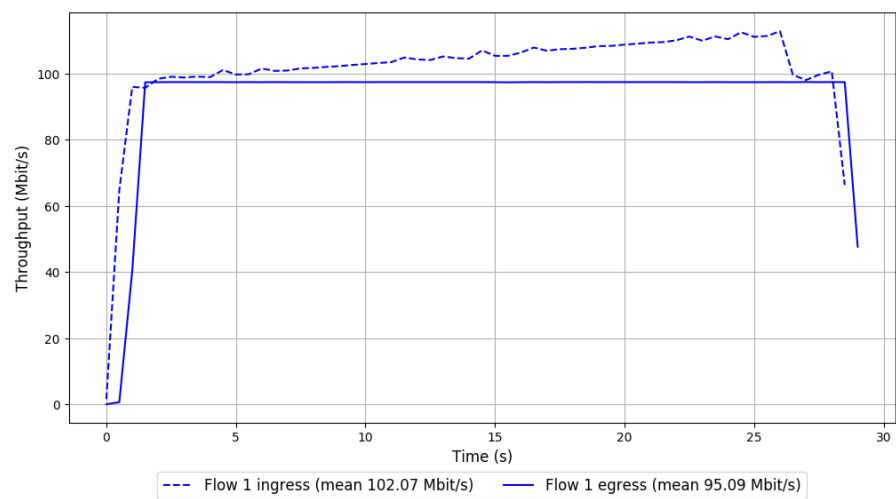
-- Flow 1:

Average throughput: 95.09 Mbit/s

95th percentile per-packet one-way delay: 115.945 ms

Loss rate: 7.42%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-03-19 10:12:38

End at: 2019-03-19 10:13:08

Local clock offset: -7.089 ms

Remote clock offset: 3.479 ms

Below is generated by plot.py at 2019-03-19 10:47:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.23 Mbit/s

95th percentile per-packet one-way delay: 110.395 ms

Loss rate: 3.54%

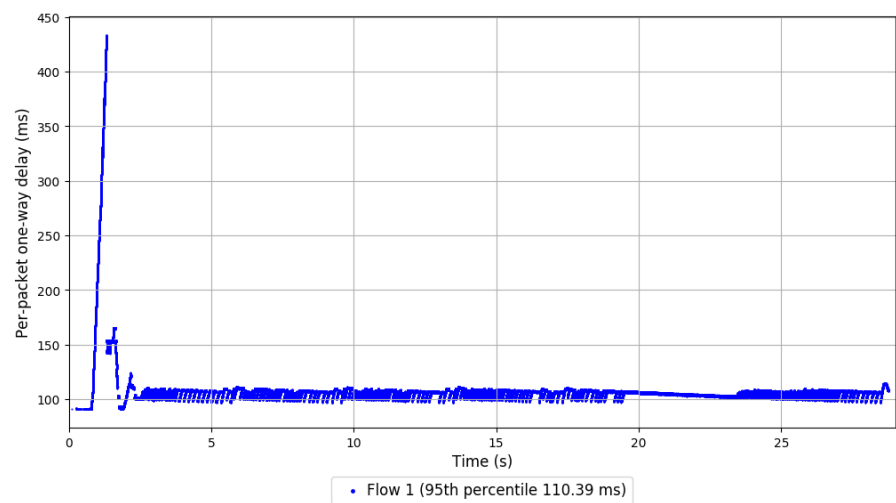
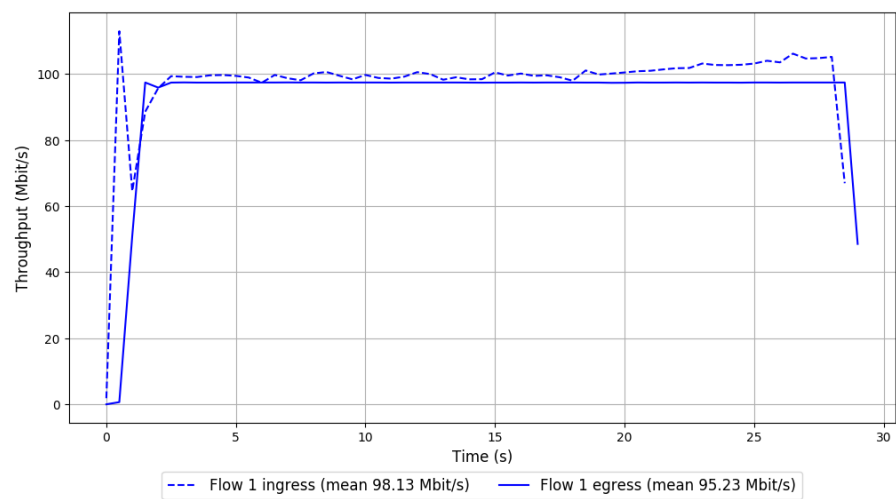
-- Flow 1:

Average throughput: 95.23 Mbit/s

95th percentile per-packet one-way delay: 110.395 ms

Loss rate: 3.54%

Run 4: Report of Indigo-MusesC3 — Data Link

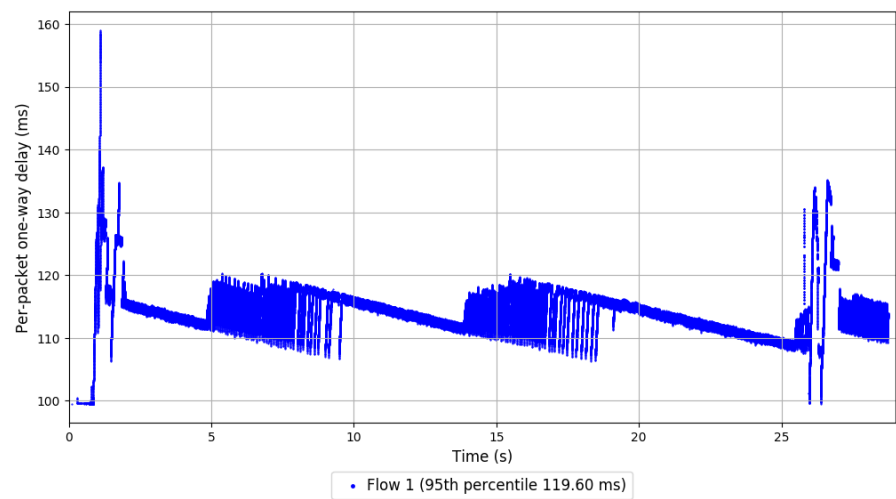
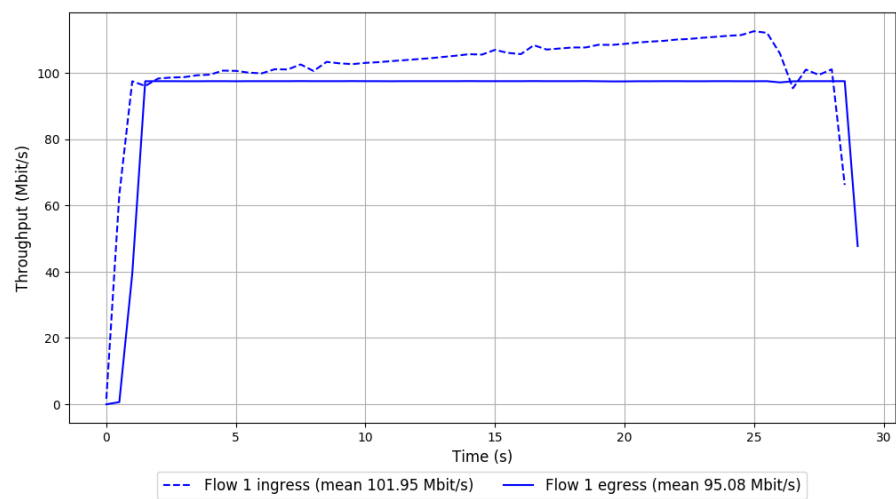


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-03-19 10:37:34
End at: 2019-03-19 10:38:04
Local clock offset: -6.906 ms
Remote clock offset: -0.412 ms

Below is generated by plot.py at 2019-03-19 10:47:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.08 Mbit/s
95th percentile per-packet one-way delay: 119.596 ms
Loss rate: 7.32%
-- Flow 1:
Average throughput: 95.08 Mbit/s
95th percentile per-packet one-way delay: 119.596 ms
Loss rate: 7.32%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-03-19 08:38:22

End at: 2019-03-19 08:38:52

Local clock offset: -7.512 ms

Remote clock offset: 3.469 ms

Below is generated by plot.py at 2019-03-19 10:48:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.28 Mbit/s

95th percentile per-packet one-way delay: 112.812 ms

Loss rate: 8.09%

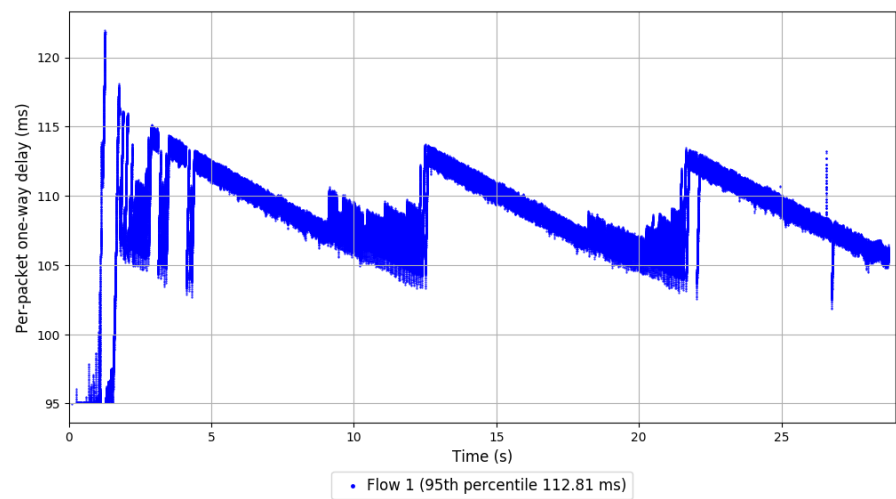
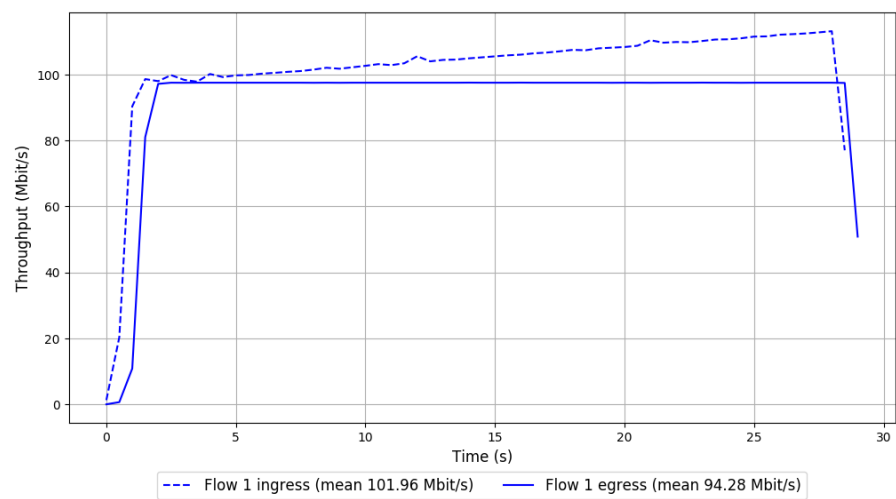
-- Flow 1:

Average throughput: 94.28 Mbit/s

95th percentile per-packet one-way delay: 112.812 ms

Loss rate: 8.09%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

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

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

Local clock offset: -8.9 ms

Remote clock offset: 4.997 ms

Below is generated by plot.py at 2019-03-19 10:48:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.04 Mbit/s

95th percentile per-packet one-way delay: 103.706 ms

Loss rate: 2.03%

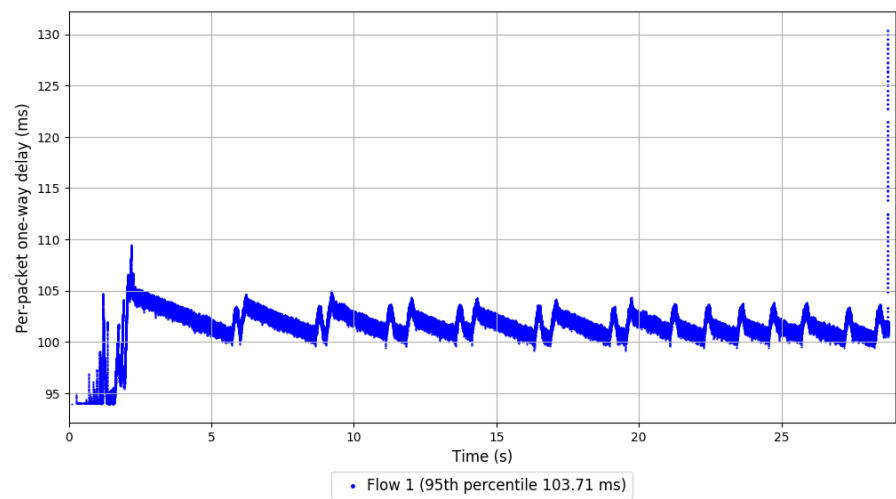
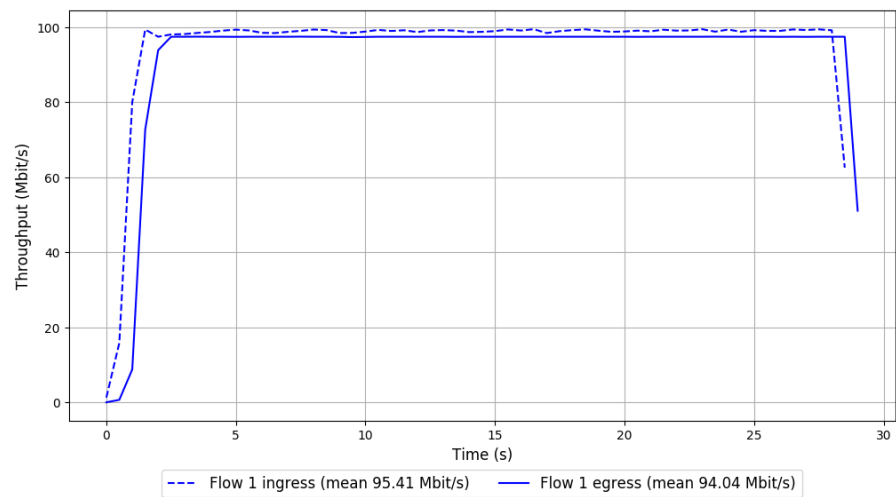
-- Flow 1:

Average throughput: 94.04 Mbit/s

95th percentile per-packet one-way delay: 103.706 ms

Loss rate: 2.03%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-03-19 09:28:26

End at: 2019-03-19 09:28:56

Local clock offset: -7.277 ms

Remote clock offset: 0.193 ms

Below is generated by plot.py at 2019-03-19 10:48:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.73 Mbit/s

95th percentile per-packet one-way delay: 107.450 ms

Loss rate: 0.67%

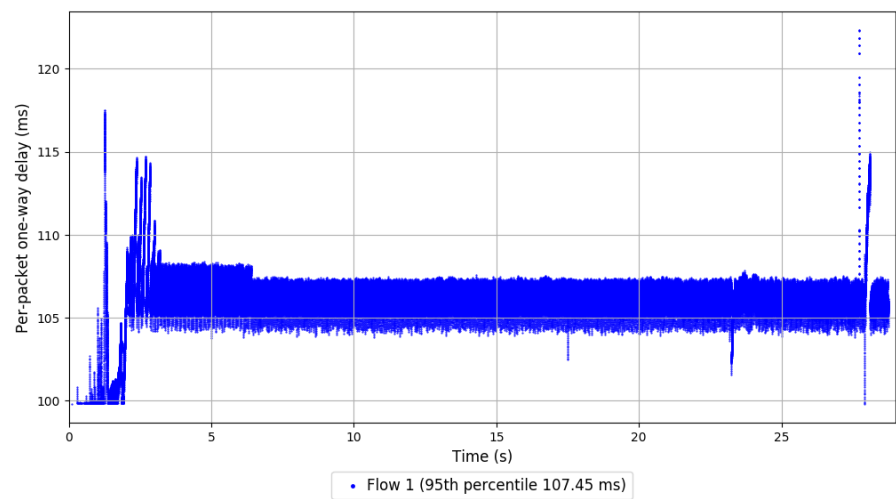
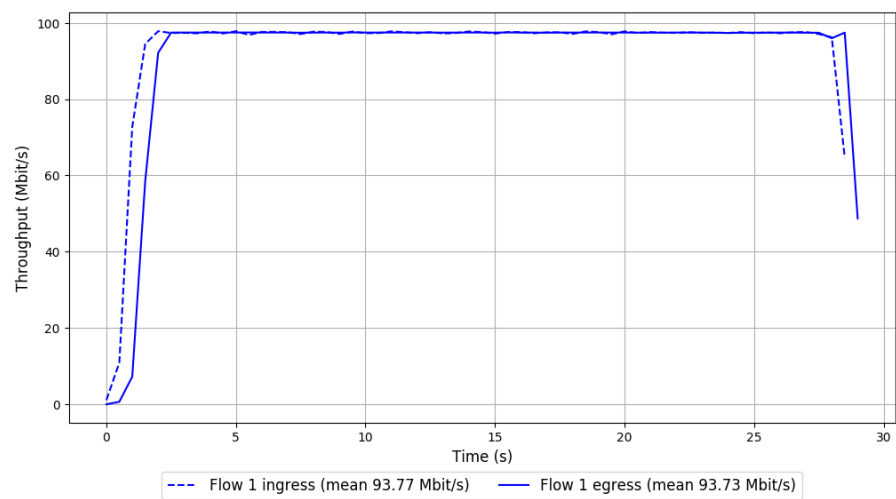
-- Flow 1:

Average throughput: 93.73 Mbit/s

95th percentile per-packet one-way delay: 107.450 ms

Loss rate: 0.67%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-03-19 09:53:27

End at: 2019-03-19 09:53:57

Local clock offset: -7.775 ms

Remote clock offset: 4.581 ms

Below is generated by plot.py at 2019-03-19 10:48:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.28 Mbit/s

95th percentile per-packet one-way delay: 106.682 ms

Loss rate: 6.61%

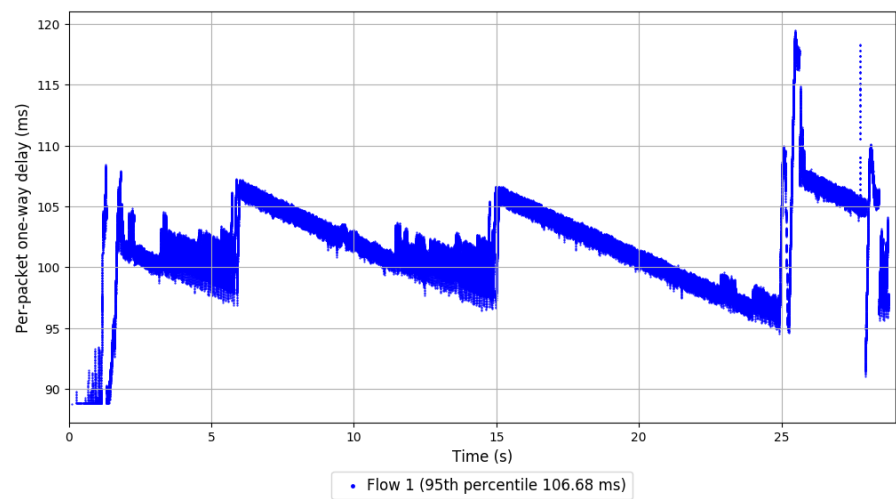
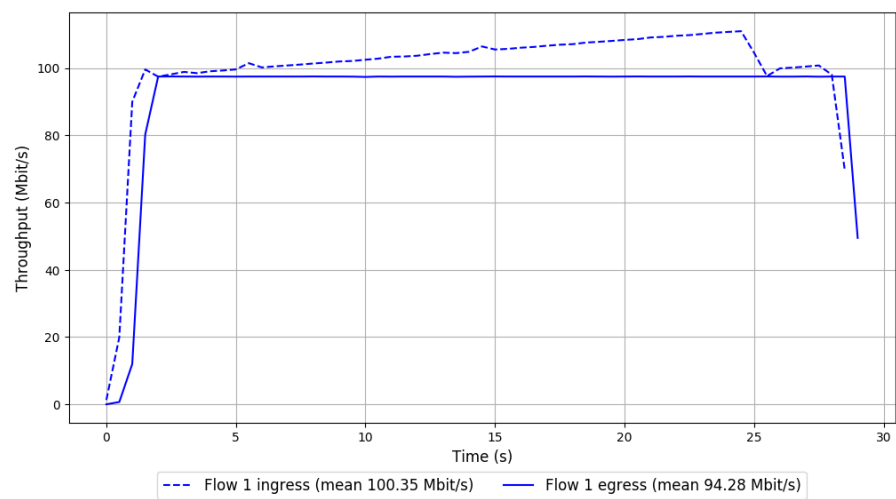
-- Flow 1:

Average throughput: 94.28 Mbit/s

95th percentile per-packet one-way delay: 106.682 ms

Loss rate: 6.61%

Run 4: Report of Indigo-MusesC5 — Data Link

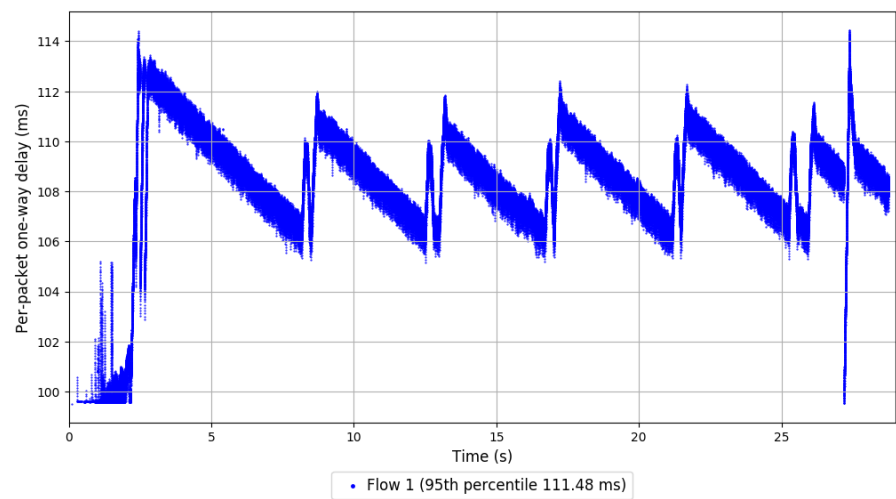
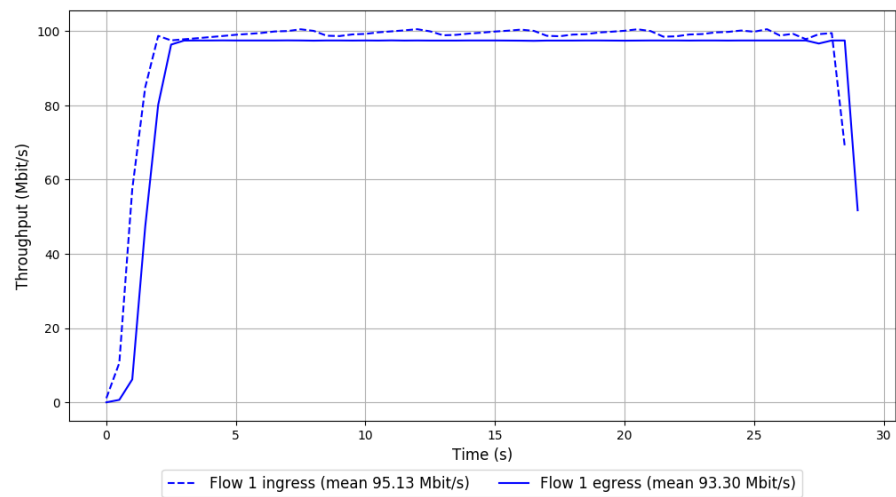


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-03-19 10:18:27
End at: 2019-03-19 10:18:58
Local clock offset: -7.621 ms
Remote clock offset: -0.267 ms

Below is generated by plot.py at 2019-03-19 10:48:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.30 Mbit/s
95th percentile per-packet one-way delay: 111.480 ms
Loss rate: 2.54%
-- Flow 1:
Average throughput: 93.30 Mbit/s
95th percentile per-packet one-way delay: 111.480 ms
Loss rate: 2.54%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-03-19 08:46:40

End at: 2019-03-19 08:47:10

Local clock offset: -8.083 ms

Remote clock offset: 3.645 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.15 Mbit/s

95th percentile per-packet one-way delay: 103.367 ms

Loss rate: 0.65%

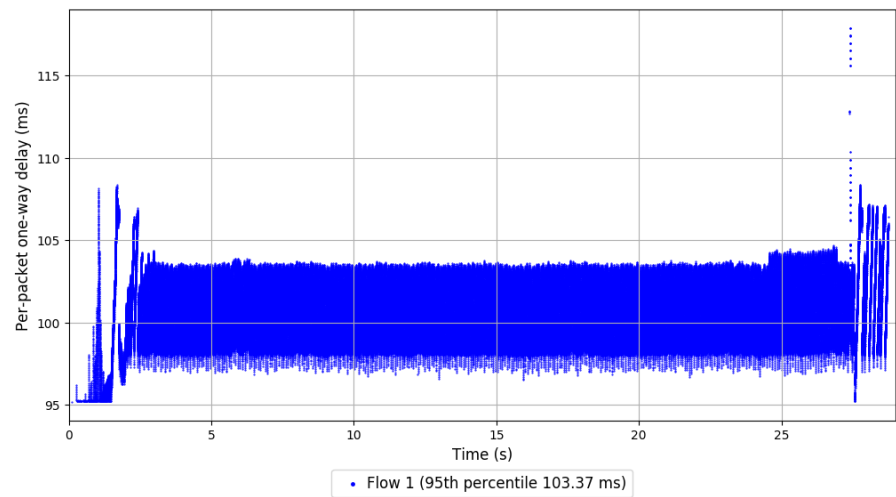
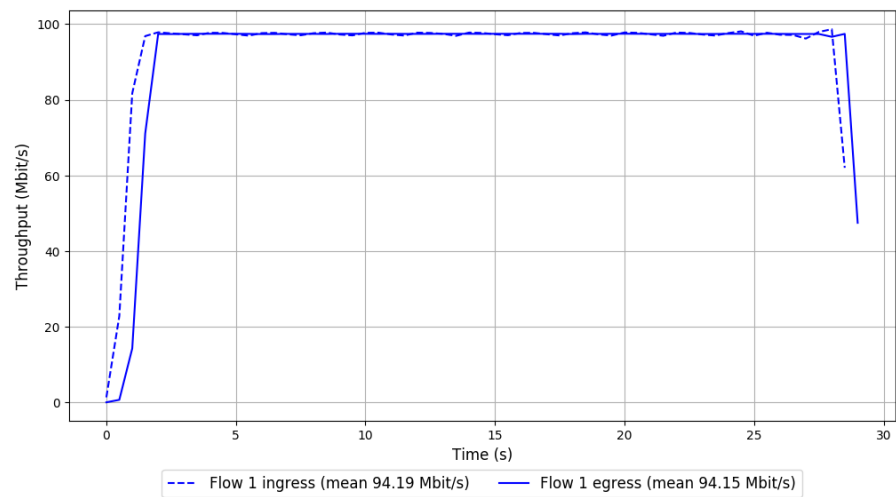
-- Flow 1:

Average throughput: 94.15 Mbit/s

95th percentile per-packet one-way delay: 103.367 ms

Loss rate: 0.65%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-03-19 09:11:42

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

Local clock offset: -8.441 ms

Remote clock offset: 2.467 ms

Below is generated by plot.py at 2019-03-19 10:48:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.14 Mbit/s

95th percentile per-packet one-way delay: 103.627 ms

Loss rate: 0.65%

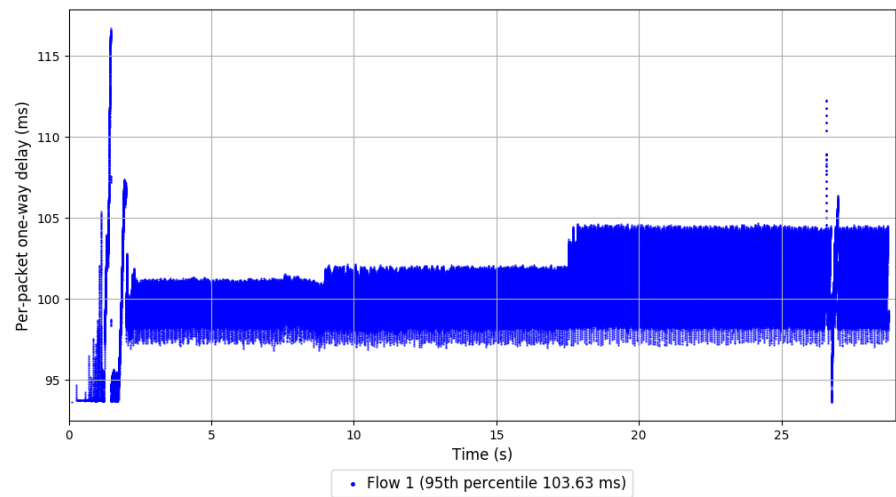
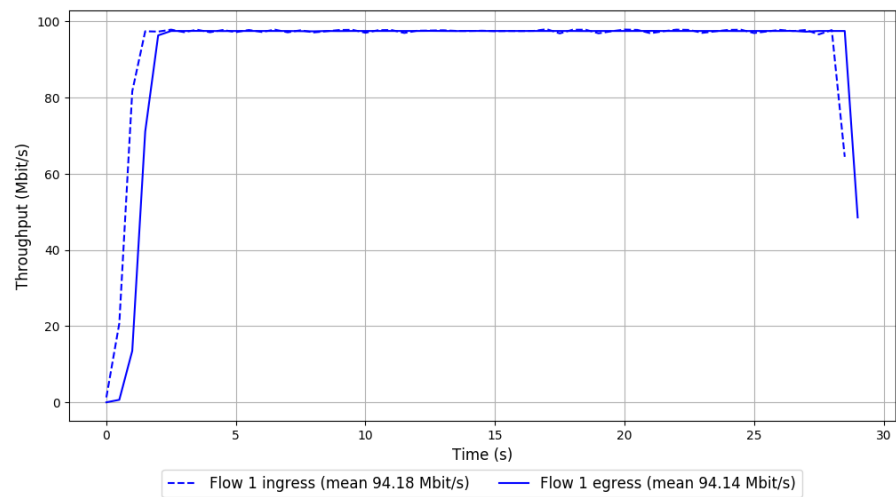
-- Flow 1:

Average throughput: 94.14 Mbit/s

95th percentile per-packet one-way delay: 103.627 ms

Loss rate: 0.65%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-03-19 09:36:43

End at: 2019-03-19 09:37:13

Local clock offset: -7.854 ms

Remote clock offset: -0.299 ms

Below is generated by plot.py at 2019-03-19 10:48:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.49 Mbit/s

95th percentile per-packet one-way delay: 104.361 ms

Loss rate: 0.69%

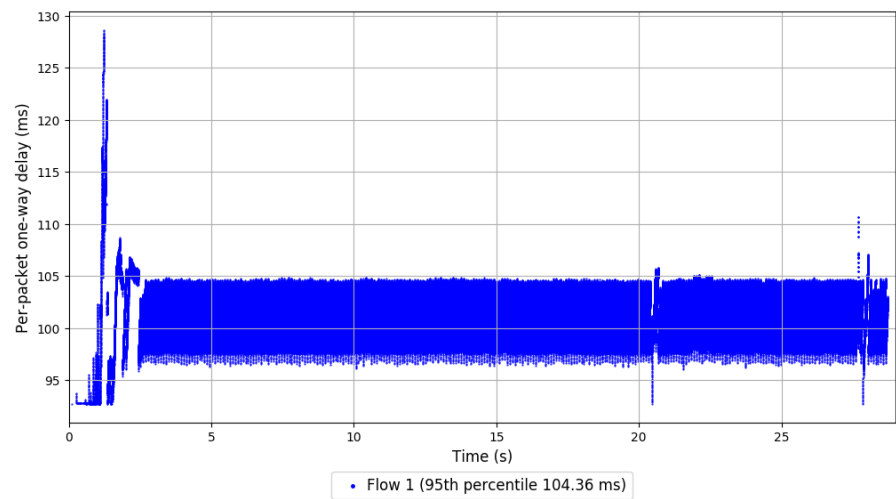
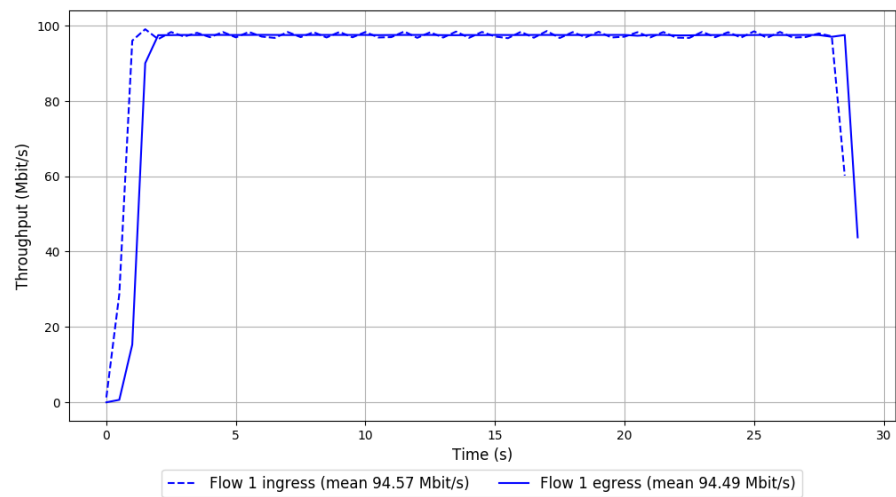
-- Flow 1:

Average throughput: 94.49 Mbit/s

95th percentile per-packet one-way delay: 104.361 ms

Loss rate: 0.69%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-03-19 10:01:44

End at: 2019-03-19 10:02:14

Local clock offset: -7.093 ms

Remote clock offset: -0.271 ms

Below is generated by plot.py at 2019-03-19 10:49:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.63 Mbit/s

95th percentile per-packet one-way delay: 105.413 ms

Loss rate: 1.41%

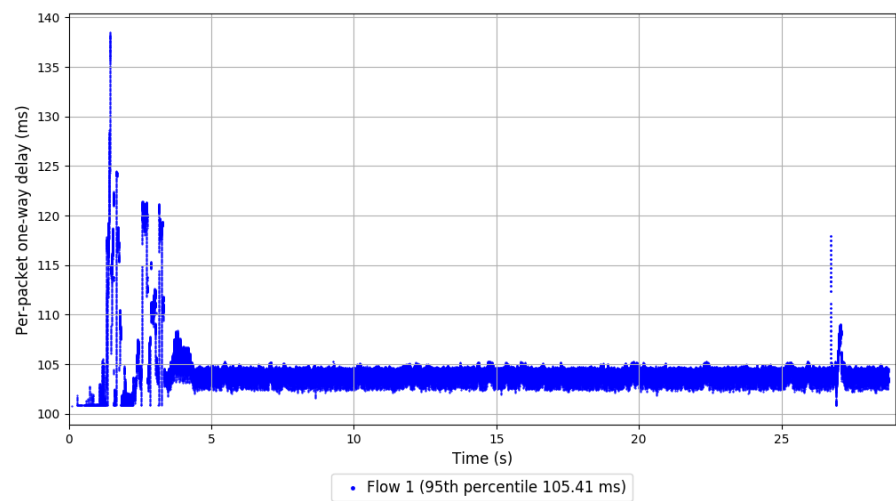
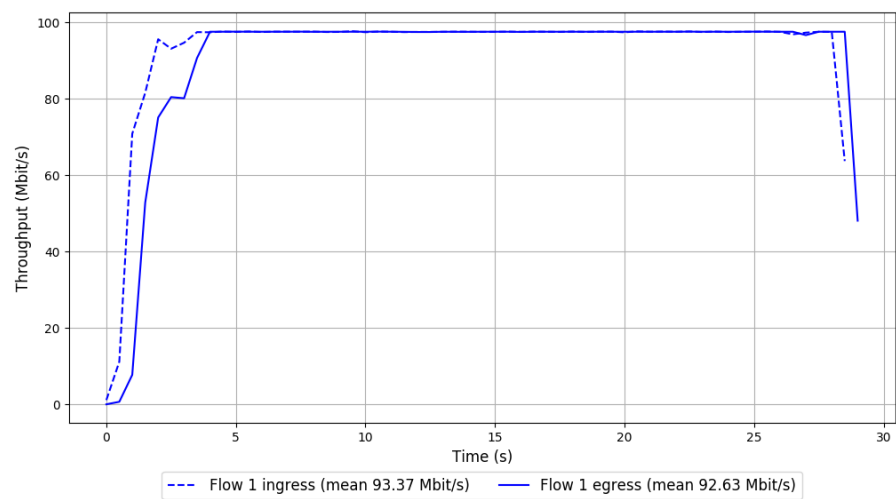
-- Flow 1:

Average throughput: 92.63 Mbit/s

95th percentile per-packet one-way delay: 105.413 ms

Loss rate: 1.41%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-03-19 10:26:45

End at: 2019-03-19 10:27:15

Local clock offset: -7.158 ms

Remote clock offset: 5.661 ms

Below is generated by plot.py at 2019-03-19 10:49:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.09 Mbit/s

95th percentile per-packet one-way delay: 101.597 ms

Loss rate: 0.68%

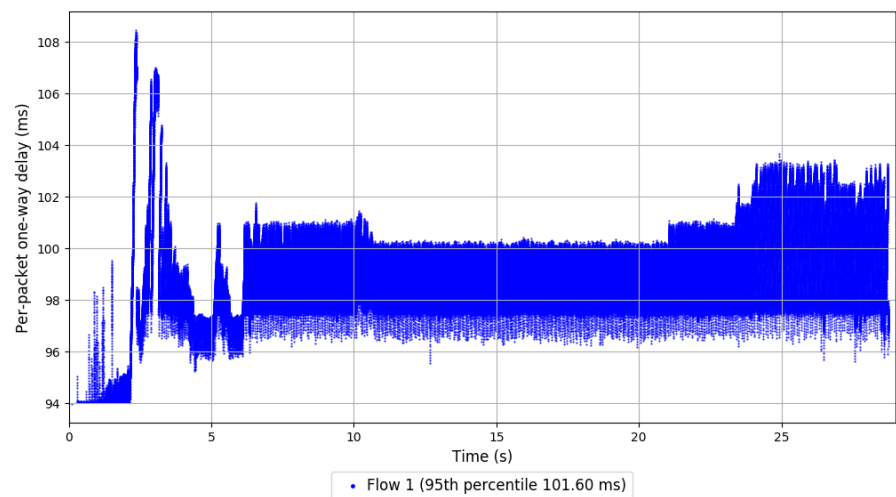
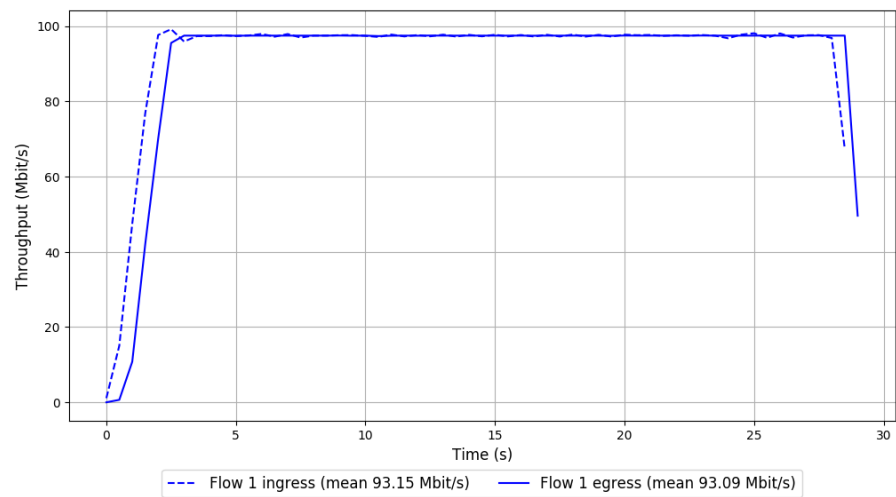
-- Flow 1:

Average throughput: 93.09 Mbit/s

95th percentile per-packet one-way delay: 101.597 ms

Loss rate: 0.68%

Run 5: Report of Indigo-MusesD — Data Link

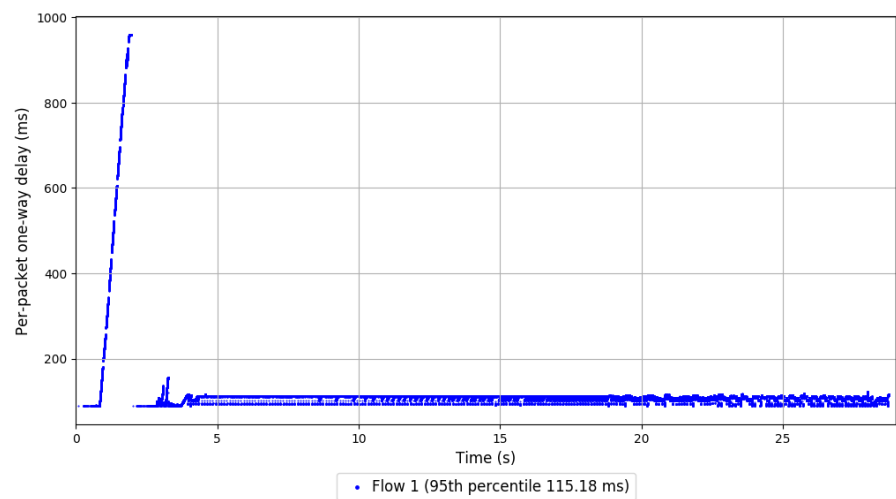
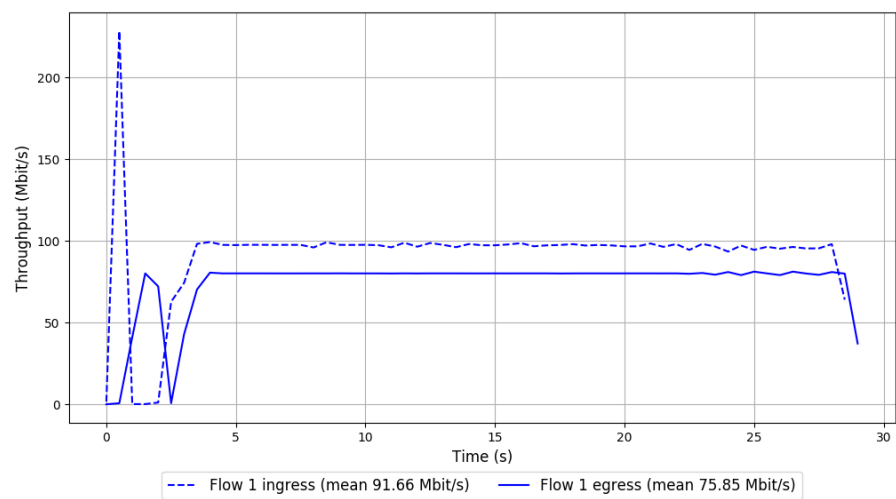


```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-03-19 08:49:02
End at: 2019-03-19 08:49:32
Local clock offset: -8.758 ms
Remote clock offset: 9.105 ms

# Below is generated by plot.py at 2019-03-19 10:49:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.85 Mbit/s
95th percentile per-packet one-way delay: 115.181 ms
Loss rate: 17.74%
-- Flow 1:
Average throughput: 75.85 Mbit/s
95th percentile per-packet one-way delay: 115.181 ms
Loss rate: 17.74%
```

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-03-19 09:14:06

End at: 2019-03-19 09:14:36

Local clock offset: -9.293 ms

Remote clock offset: 5.702 ms

Below is generated by plot.py at 2019-03-19 10:49:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.79 Mbit/s

95th percentile per-packet one-way delay: 115.785 ms

Loss rate: 7.63%

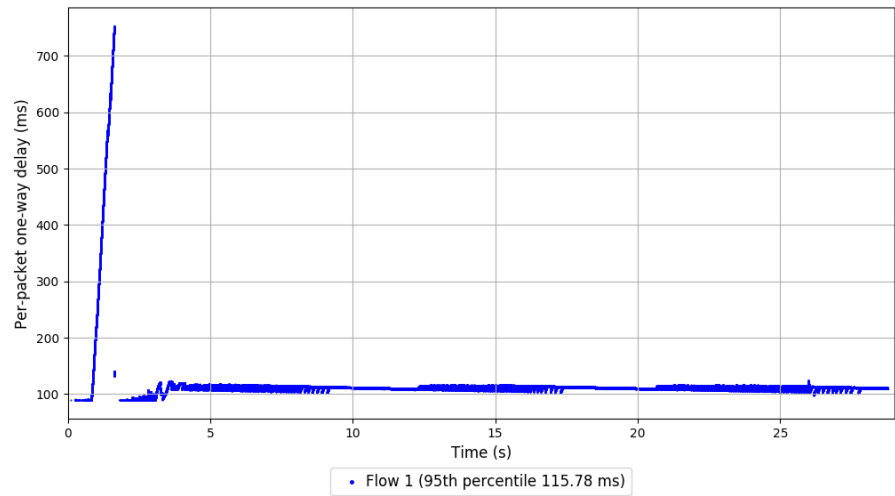
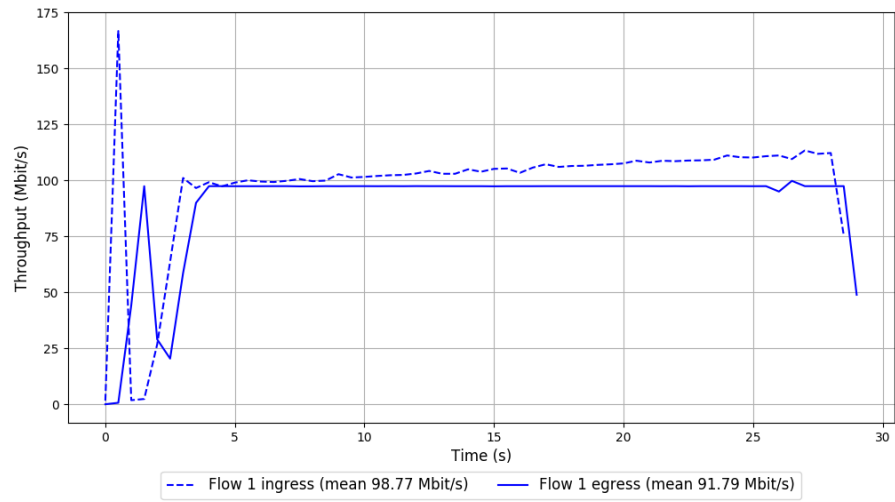
-- Flow 1:

Average throughput: 91.79 Mbit/s

95th percentile per-packet one-way delay: 115.785 ms

Loss rate: 7.63%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-03-19 09:39:05

End at: 2019-03-19 09:39:35

Local clock offset: -7.117 ms

Remote clock offset: 2.056 ms

Below is generated by plot.py at 2019-03-19 10:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.21 Mbit/s

95th percentile per-packet one-way delay: 125.095 ms

Loss rate: 7.90%

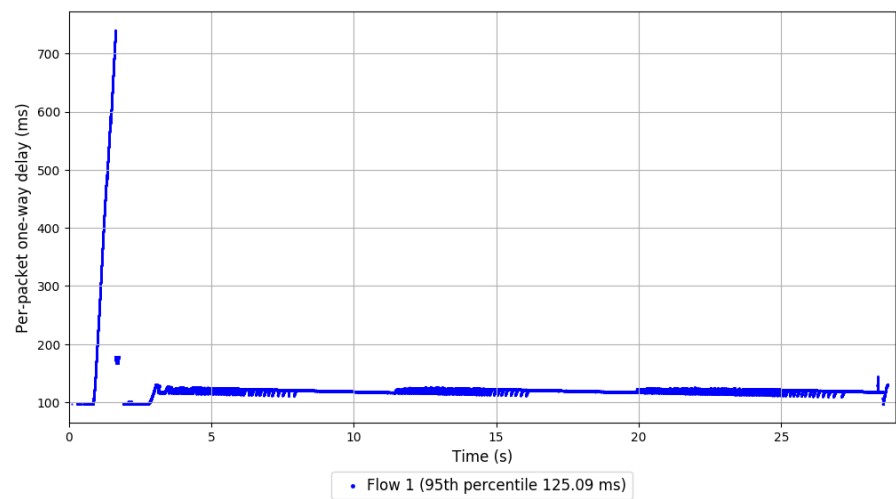
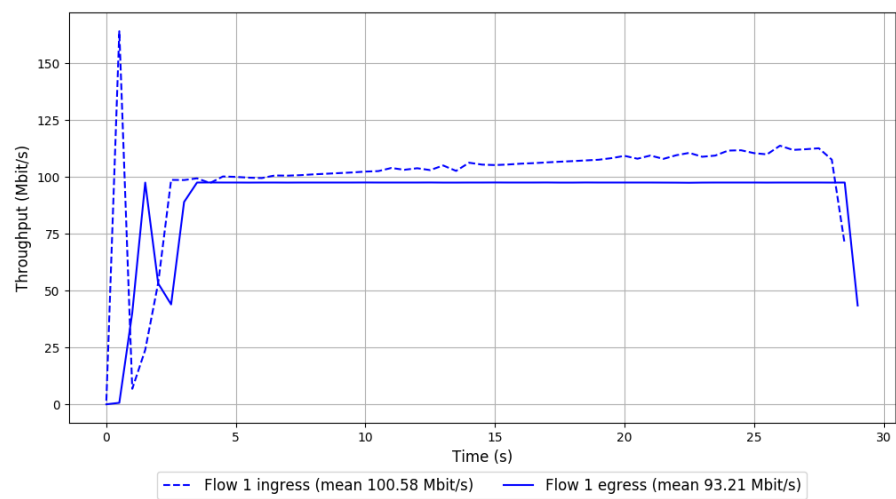
-- Flow 1:

Average throughput: 93.21 Mbit/s

95th percentile per-packet one-way delay: 125.095 ms

Loss rate: 7.90%

Run 3: Report of Indigo-MusesT — Data Link

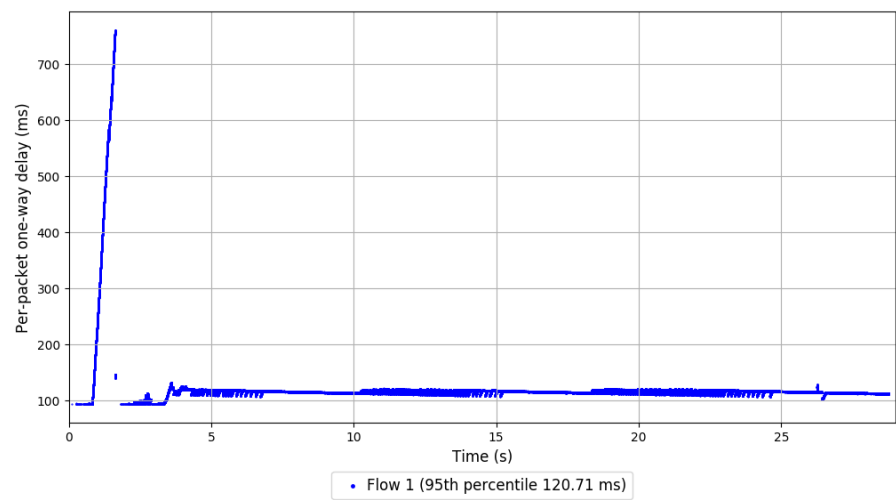
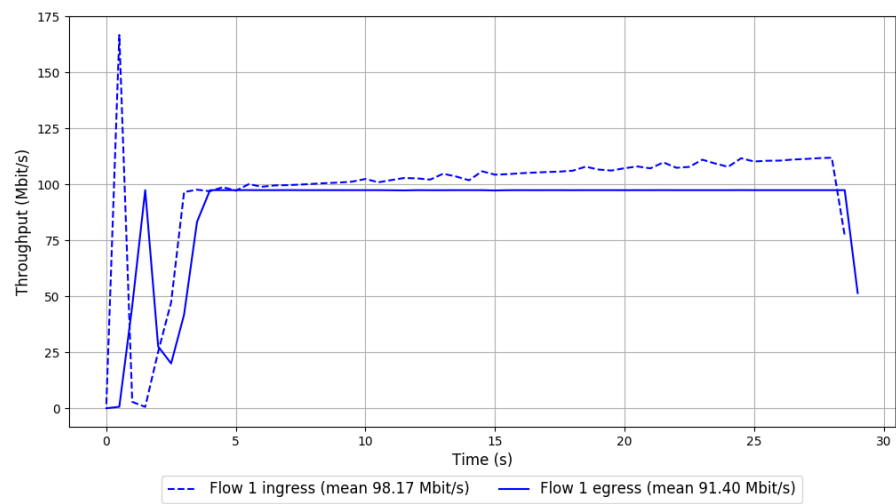


Run 4: Statistics of Indigo-MusesT

Start at: 2019-03-19 10:04:08
End at: 2019-03-19 10:04:38
Local clock offset: -7.023 ms
Remote clock offset: -0.526 ms

Below is generated by plot.py at 2019-03-19 10:49:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.40 Mbit/s
95th percentile per-packet one-way delay: 120.709 ms
Loss rate: 7.46%
-- Flow 1:
Average throughput: 91.40 Mbit/s
95th percentile per-packet one-way delay: 120.709 ms
Loss rate: 7.46%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-03-19 10:29:07

End at: 2019-03-19 10:29:37

Local clock offset: -6.246 ms

Remote clock offset: 0.545 ms

Below is generated by plot.py at 2019-03-19 10:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.47 Mbit/s

95th percentile per-packet one-way delay: 120.428 ms

Loss rate: 7.99%

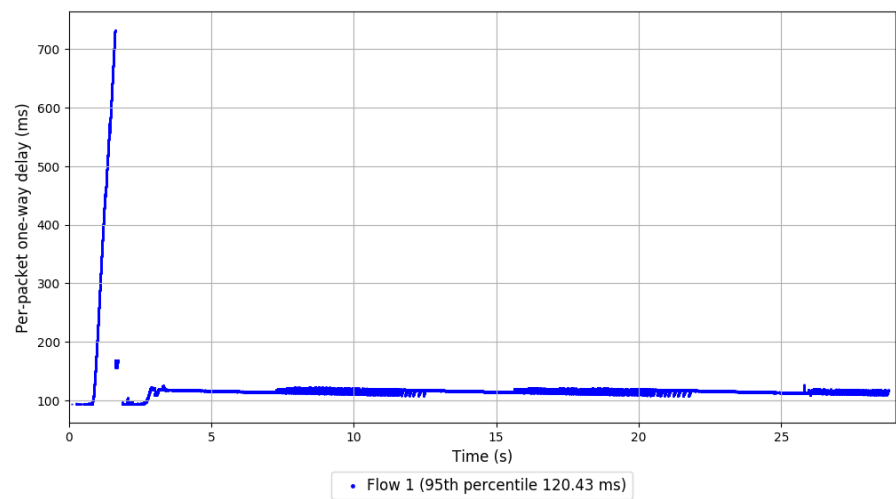
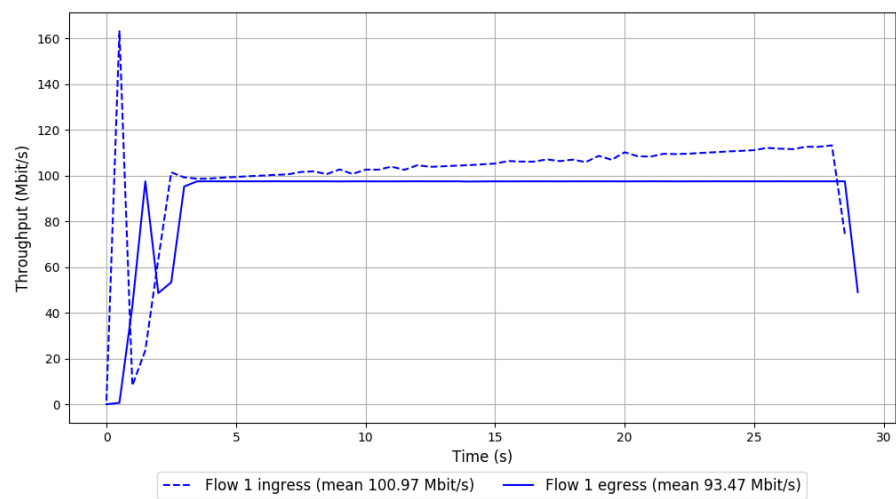
-- Flow 1:

Average throughput: 93.47 Mbit/s

95th percentile per-packet one-way delay: 120.428 ms

Loss rate: 7.99%

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-03-19 08:37:14

End at: 2019-03-19 08:37:44

Local clock offset: -8.187 ms

Remote clock offset: 3.575 ms

Below is generated by plot.py at 2019-03-19 10:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.13 Mbit/s

95th percentile per-packet one-way delay: 100.708 ms

Loss rate: 1.20%

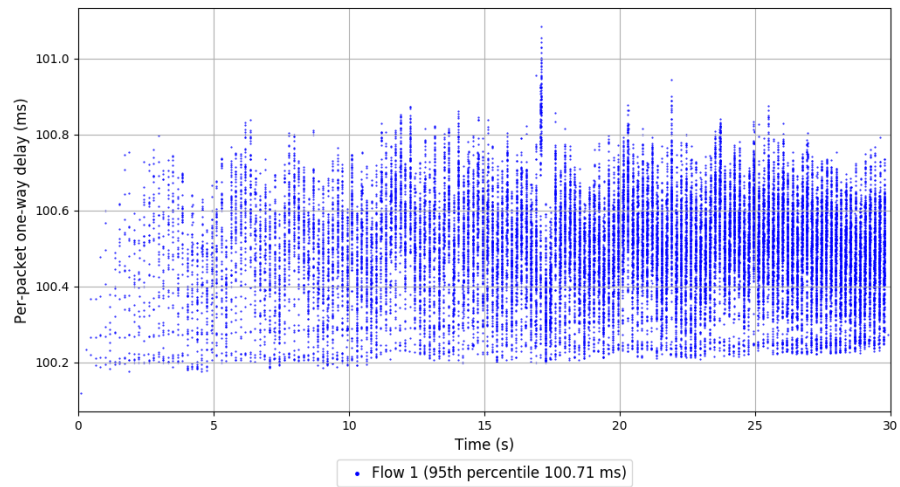
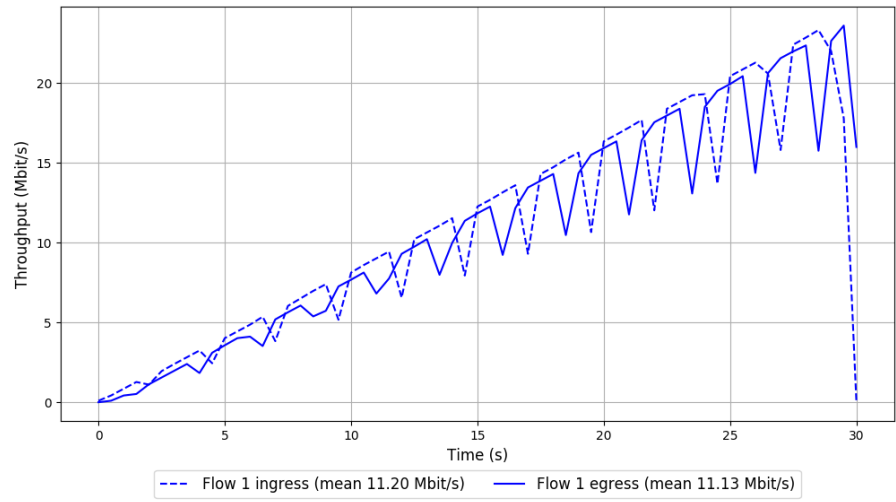
-- Flow 1:

Average throughput: 11.13 Mbit/s

95th percentile per-packet one-way delay: 100.708 ms

Loss rate: 1.20%

Run 1: Report of LEDBAT — Data Link

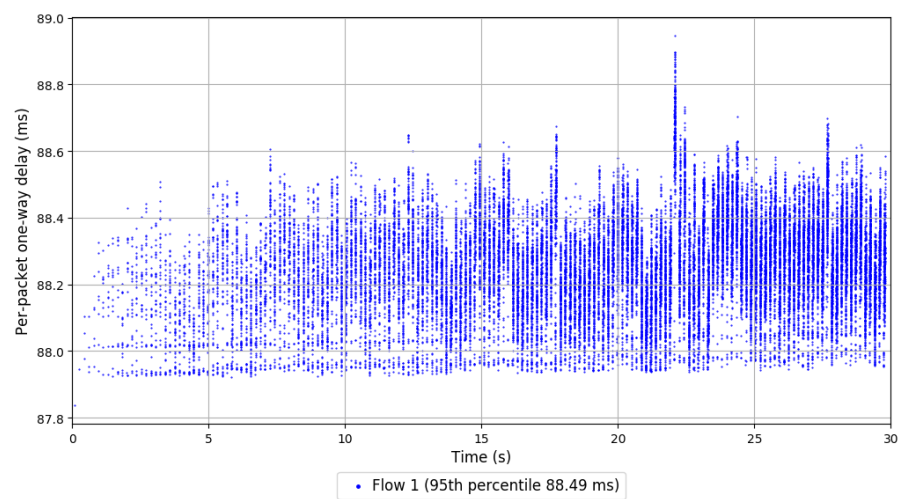
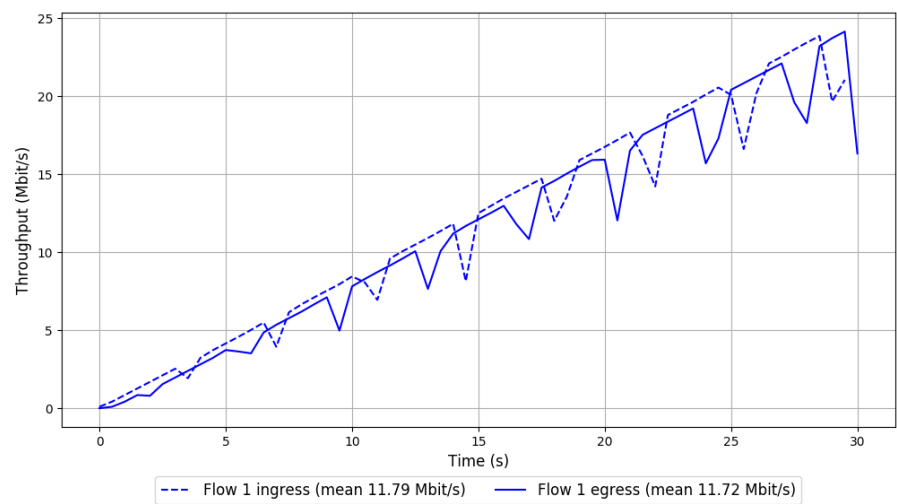


Run 2: Statistics of LEDBAT

Start at: 2019-03-19 09:02:14
End at: 2019-03-19 09:02:44
Local clock offset: -8.884 ms
Remote clock offset: 11.185 ms

Below is generated by plot.py at 2019-03-19 10:50:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.72 Mbit/s
95th percentile per-packet one-way delay: 88.488 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 11.72 Mbit/s
95th percentile per-packet one-way delay: 88.488 ms
Loss rate: 1.17%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-03-19 09:27:17

End at: 2019-03-19 09:27:47

Local clock offset: -8.091 ms

Remote clock offset: 0.436 ms

Below is generated by plot.py at 2019-03-19 10:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.68 Mbit/s

95th percentile per-packet one-way delay: 93.409 ms

Loss rate: 1.17%

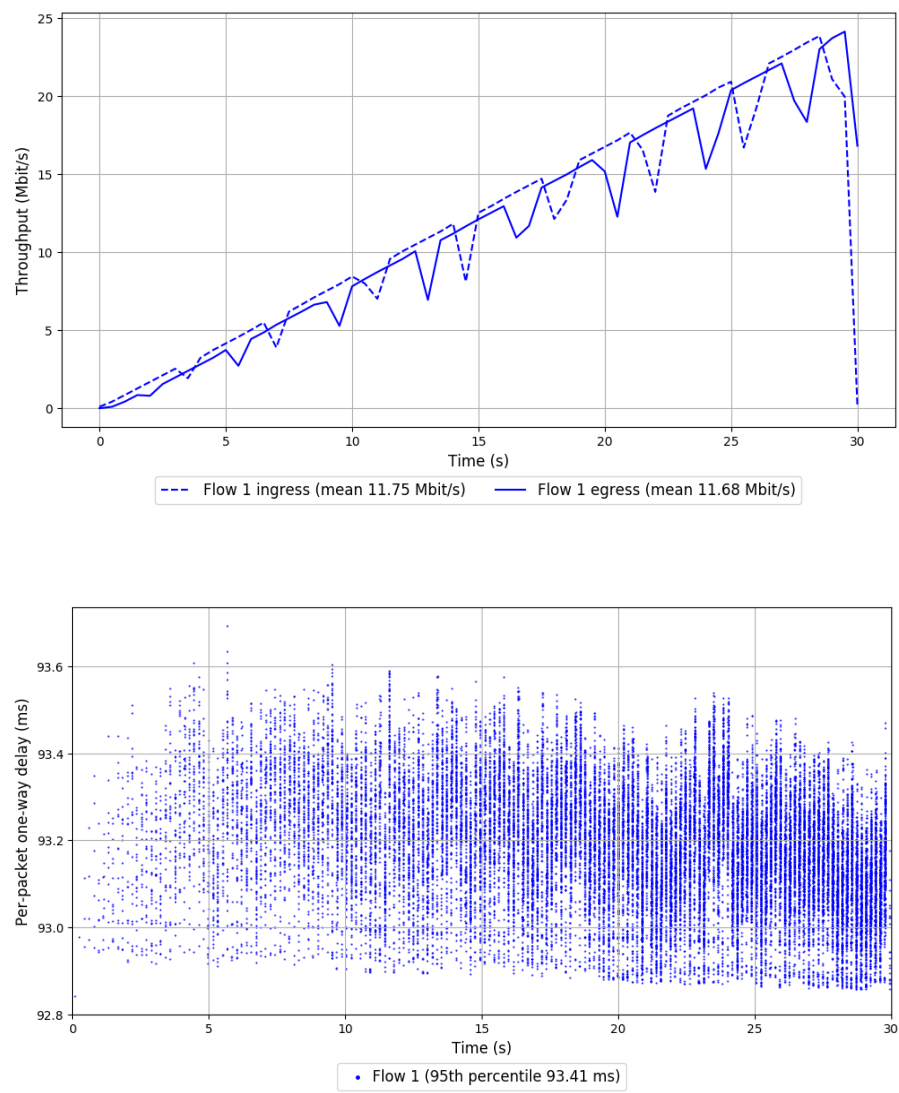
-- Flow 1:

Average throughput: 11.68 Mbit/s

95th percentile per-packet one-way delay: 93.409 ms

Loss rate: 1.17%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-03-19 09:52:18

End at: 2019-03-19 09:52:48

Local clock offset: -7.785 ms

Remote clock offset: 5.91 ms

Below is generated by plot.py at 2019-03-19 10:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.11 Mbit/s

95th percentile per-packet one-way delay: 87.403 ms

Loss rate: 1.15%

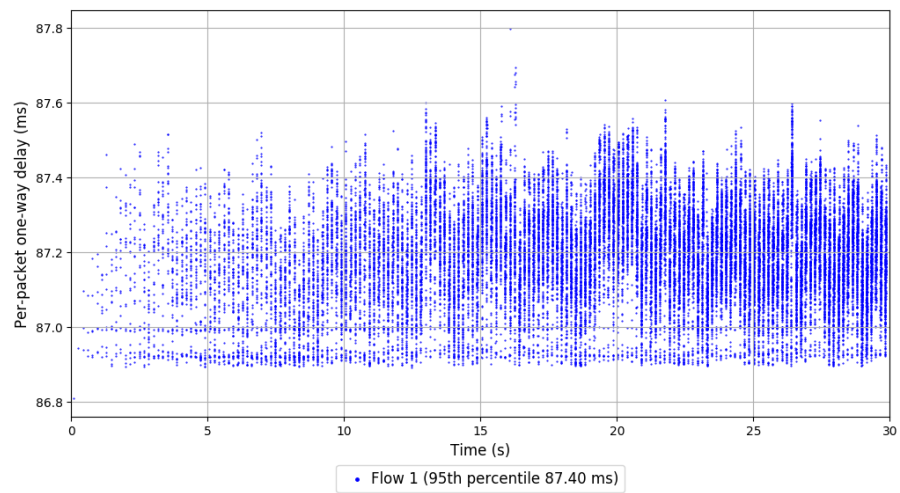
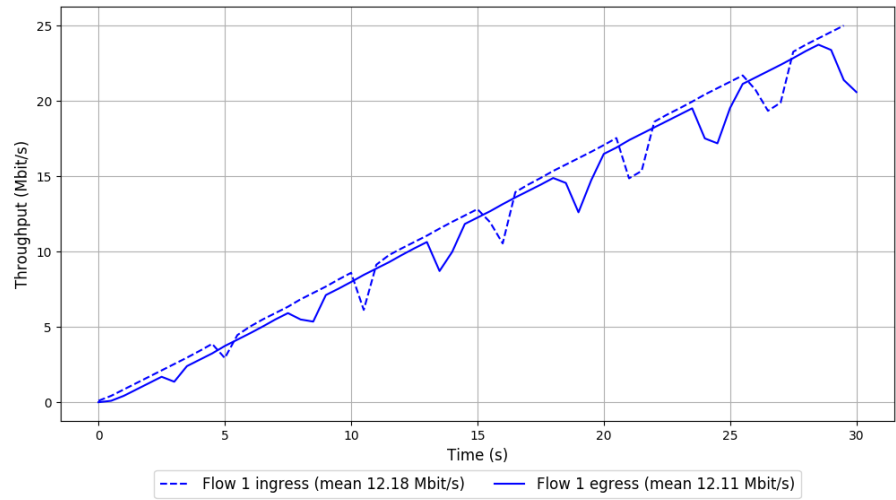
-- Flow 1:

Average throughput: 12.11 Mbit/s

95th percentile per-packet one-way delay: 87.403 ms

Loss rate: 1.15%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

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

End at: 2019-03-19 10:17:49

Local clock offset: -7.752 ms

Remote clock offset: 4.71 ms

Below is generated by plot.py at 2019-03-19 10:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.80 Mbit/s

95th percentile per-packet one-way delay: 89.268 ms

Loss rate: 1.16%

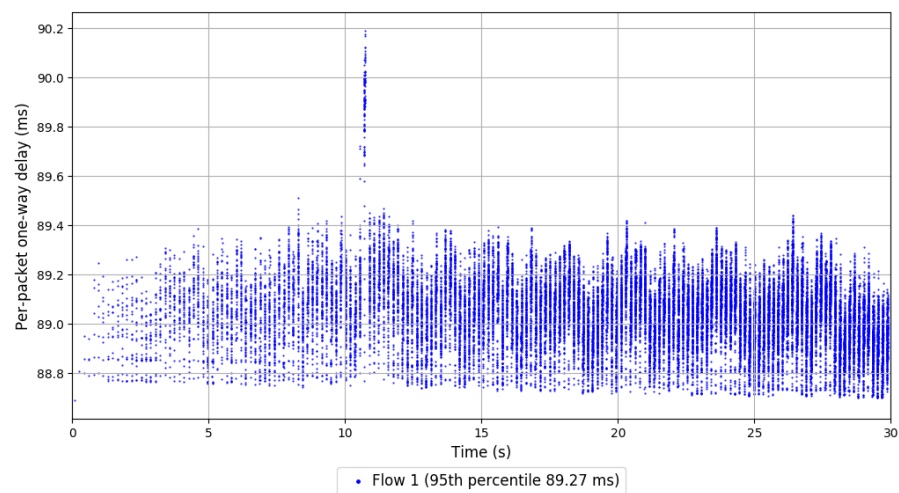
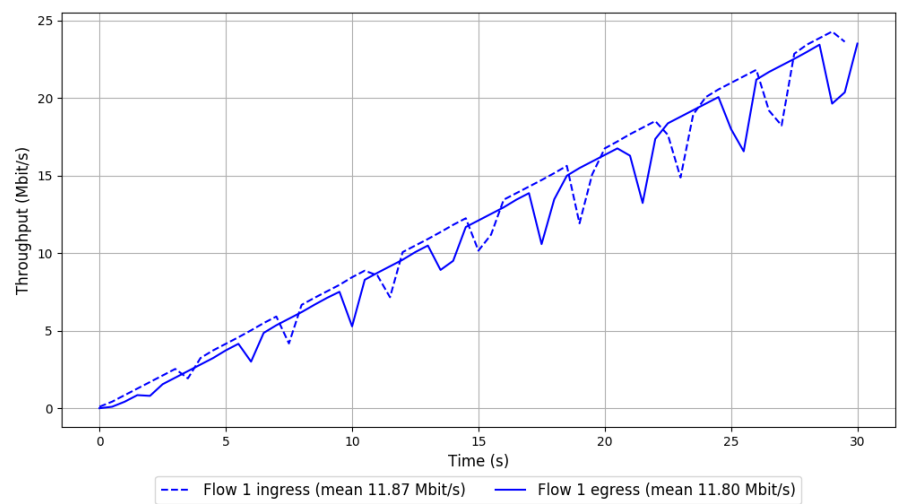
-- Flow 1:

Average throughput: 11.80 Mbit/s

95th percentile per-packet one-way delay: 89.268 ms

Loss rate: 1.16%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-03-19 08:47:52

End at: 2019-03-19 08:48:22

Local clock offset: -8.806 ms

Remote clock offset: 4.023 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.04 Mbit/s

95th percentile per-packet one-way delay: 266.935 ms

Loss rate: 2.79%

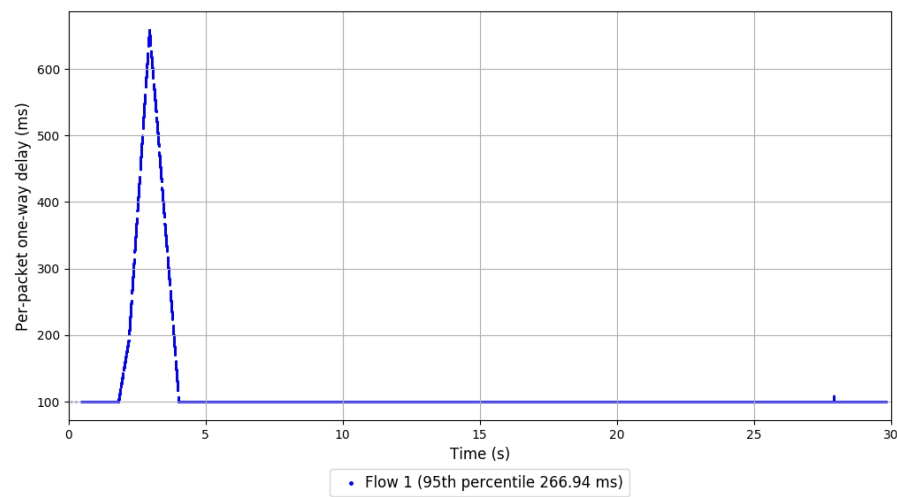
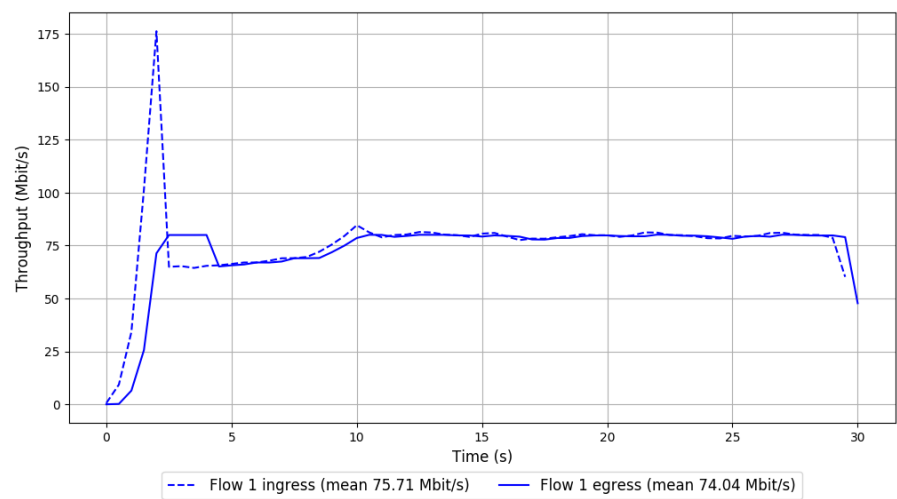
-- Flow 1:

Average throughput: 74.04 Mbit/s

95th percentile per-packet one-way delay: 266.935 ms

Loss rate: 2.79%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-03-19 09:12:54

End at: 2019-03-19 09:13:24

Local clock offset: -9.248 ms

Remote clock offset: 7.122 ms

Below is generated by plot.py at 2019-03-19 10:50:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.50 Mbit/s

95th percentile per-packet one-way delay: 263.539 ms

Loss rate: 0.77%

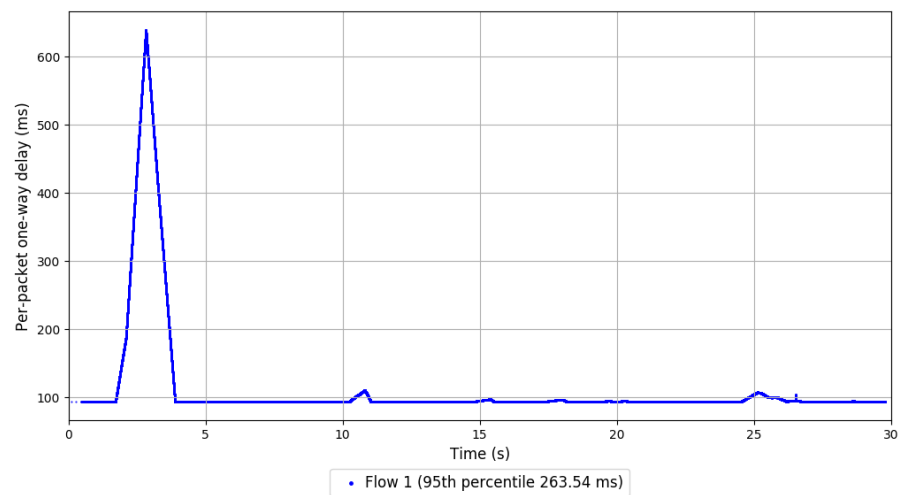
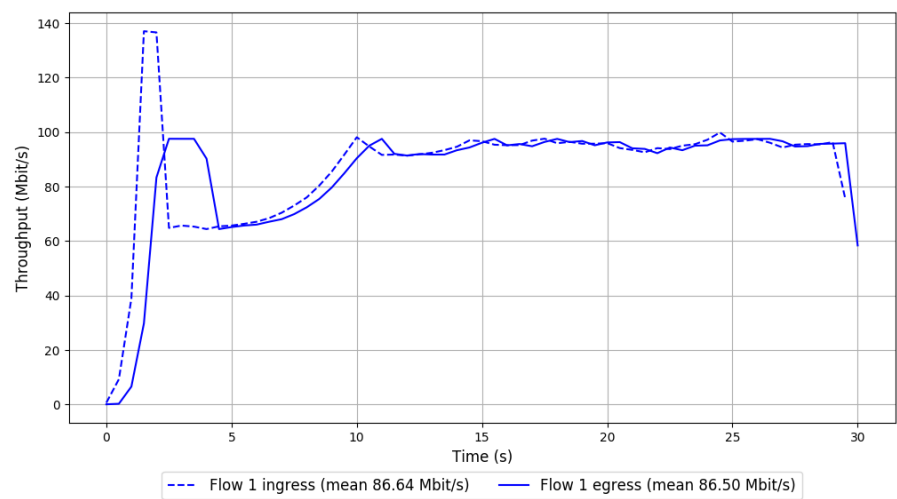
-- Flow 1:

Average throughput: 86.50 Mbit/s

95th percentile per-packet one-way delay: 263.539 ms

Loss rate: 0.77%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-03-19 09:37:54

End at: 2019-03-19 09:38:24

Local clock offset: -7.866 ms

Remote clock offset: 4.47 ms

Below is generated by plot.py at 2019-03-19 10:50:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.32 Mbit/s

95th percentile per-packet one-way delay: 221.877 ms

Loss rate: 0.74%

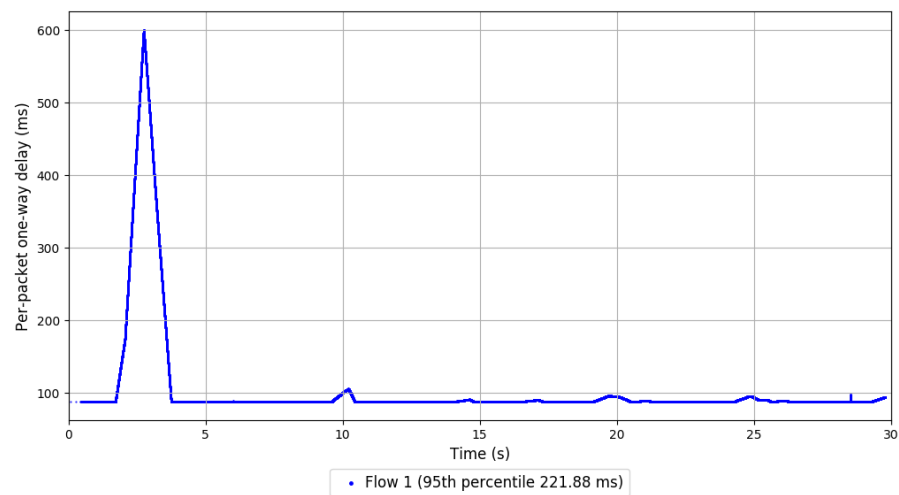
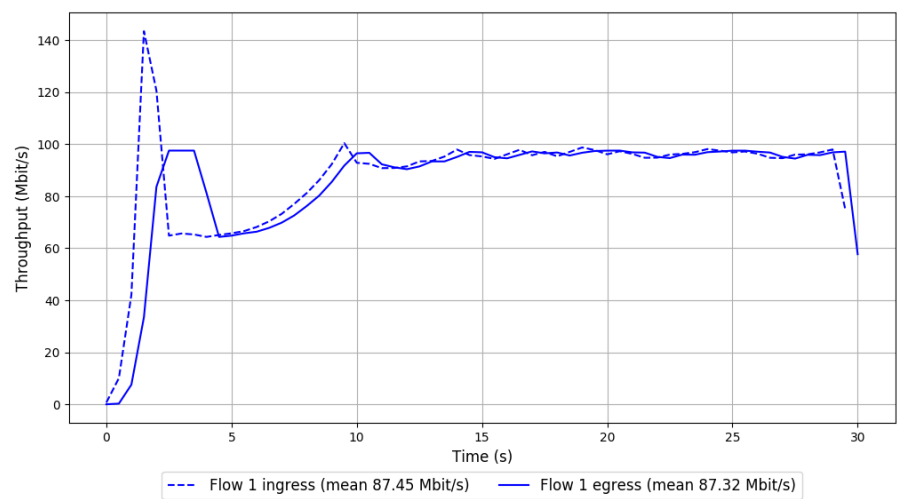
-- Flow 1:

Average throughput: 87.32 Mbit/s

95th percentile per-packet one-way delay: 221.877 ms

Loss rate: 0.74%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-03-19 10:02:57

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

Local clock offset: -7.861 ms

Remote clock offset: 4.665 ms

Below is generated by plot.py at 2019-03-19 10:50:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.06 Mbit/s

95th percentile per-packet one-way delay: 106.884 ms

Loss rate: 1.26%

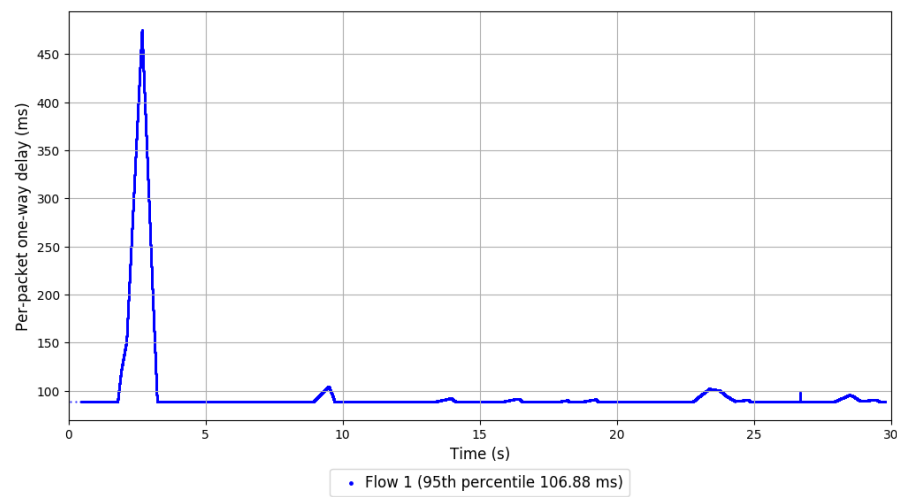
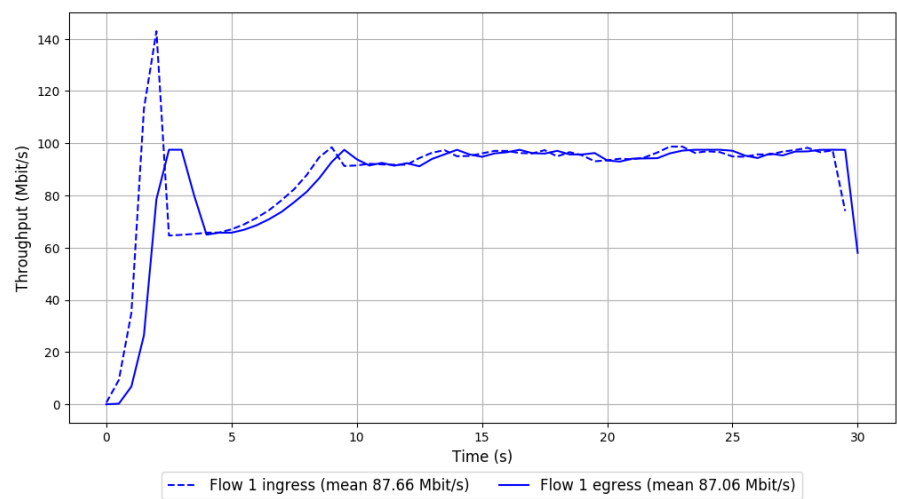
-- Flow 1:

Average throughput: 87.06 Mbit/s

95th percentile per-packet one-way delay: 106.884 ms

Loss rate: 1.26%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-03-19 10:27:56

End at: 2019-03-19 10:28:26

Local clock offset: -7.096 ms

Remote clock offset: 3.37 ms

Below is generated by plot.py at 2019-03-19 10:50:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.80 Mbit/s

95th percentile per-packet one-way delay: 245.457 ms

Loss rate: 0.75%

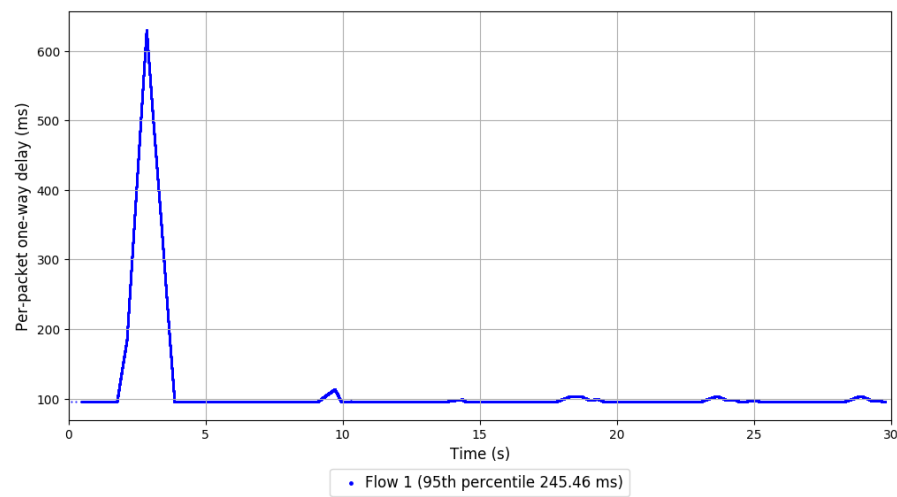
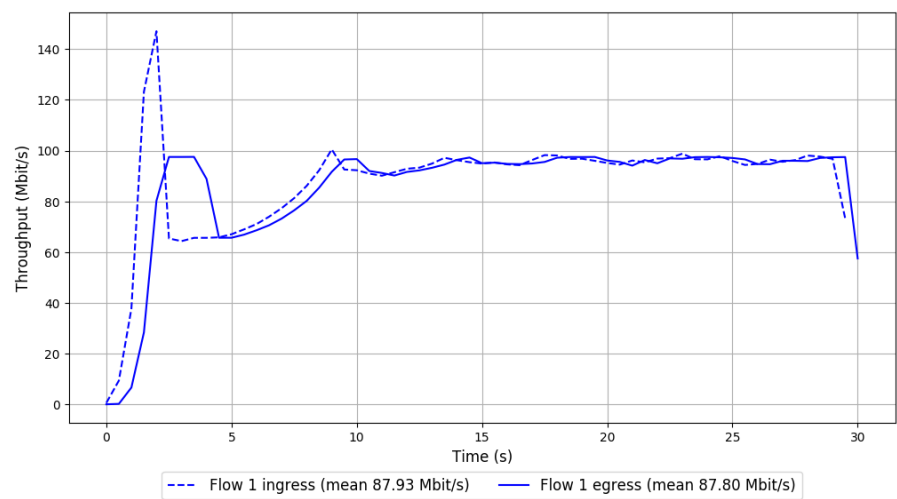
-- Flow 1:

Average throughput: 87.80 Mbit/s

95th percentile per-packet one-way delay: 245.457 ms

Loss rate: 0.75%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-03-19 08:51:25

End at: 2019-03-19 08:51:55

Local clock offset: -8.007 ms

Remote clock offset: 5.351 ms

Below is generated by plot.py at 2019-03-19 10:51:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.78 Mbit/s

95th percentile per-packet one-way delay: 93.450 ms

Loss rate: 2.52%

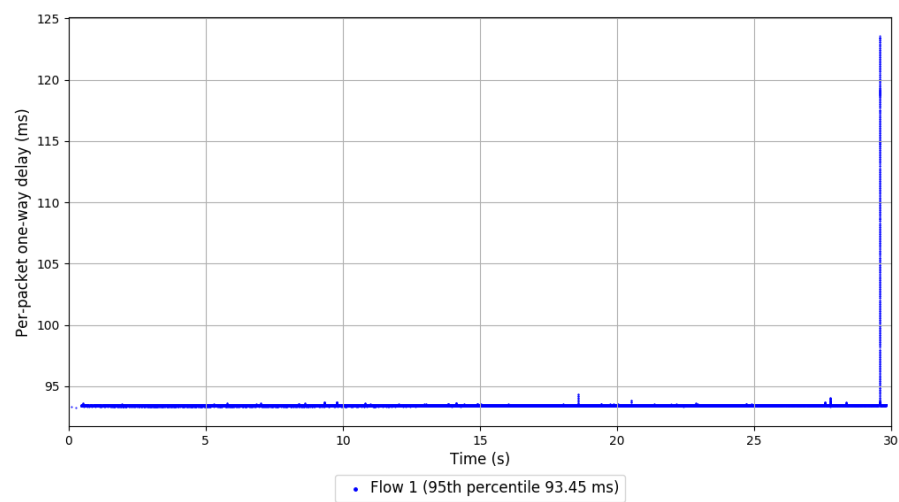
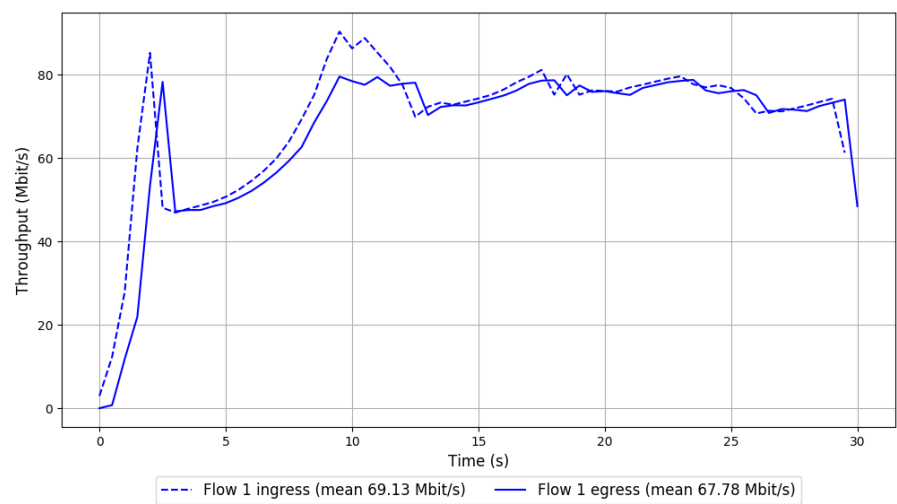
-- Flow 1:

Average throughput: 67.78 Mbit/s

95th percentile per-packet one-way delay: 93.450 ms

Loss rate: 2.52%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-03-19 09:16:30

End at: 2019-03-19 09:17:00

Local clock offset: -9.352 ms

Remote clock offset: 5.528 ms

Below is generated by plot.py at 2019-03-19 10:51:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.74 Mbit/s

95th percentile per-packet one-way delay: 447.213 ms

Loss rate: 1.37%

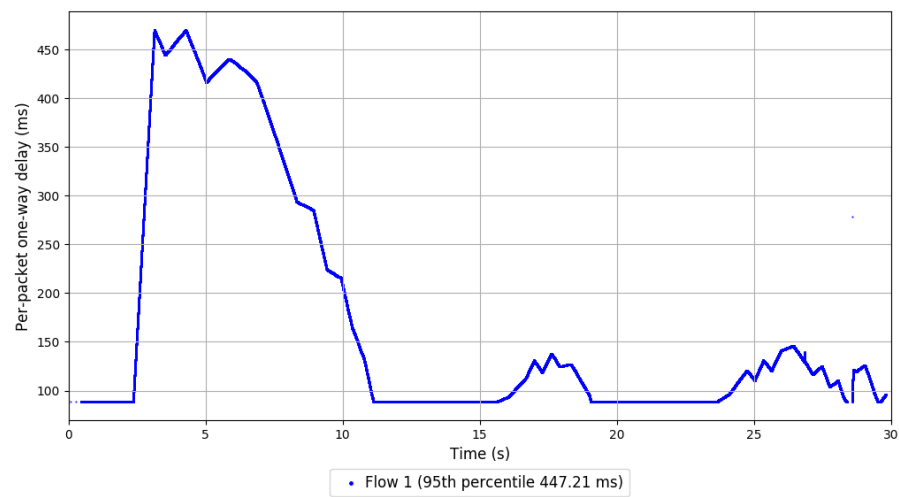
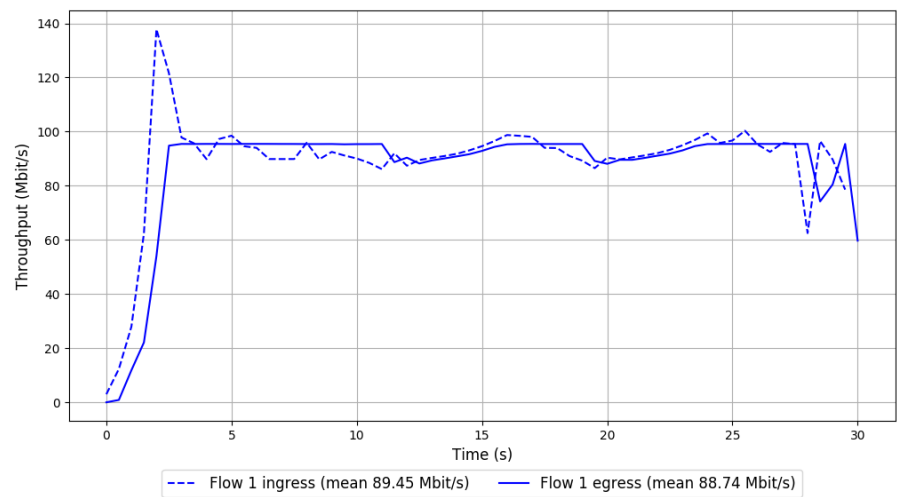
-- Flow 1:

Average throughput: 88.74 Mbit/s

95th percentile per-packet one-way delay: 447.213 ms

Loss rate: 1.37%

Run 2: Report of PCC-Expr — Data Link

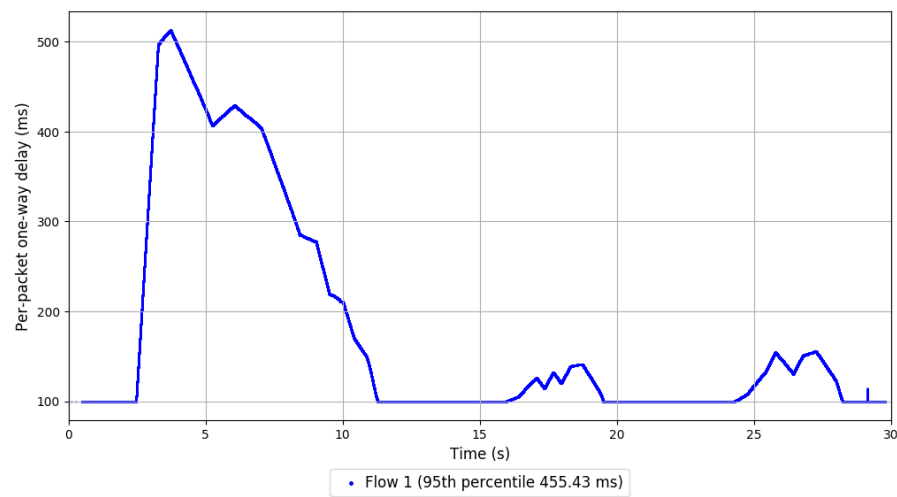
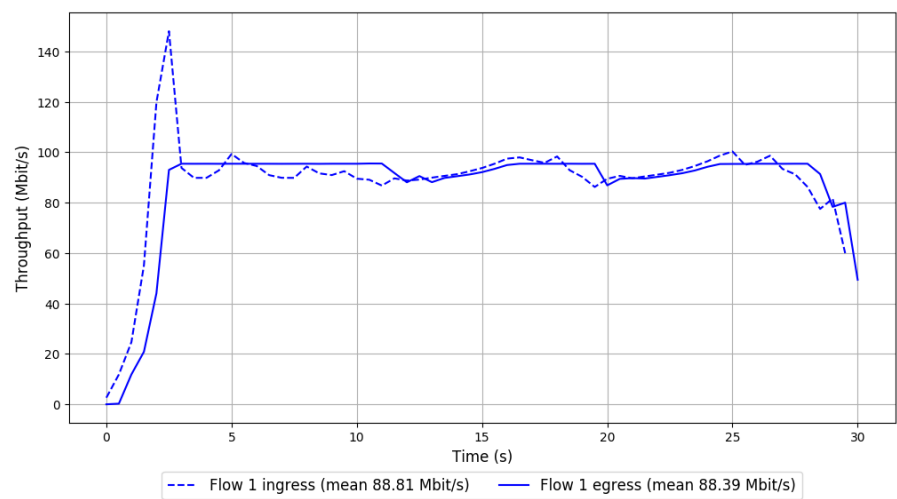


Run 3: Statistics of PCC-Expr

Start at: 2019-03-19 09:41:29
End at: 2019-03-19 09:41:59
Local clock offset: -7.882 ms
Remote clock offset: -1.136 ms

Below is generated by plot.py at 2019-03-19 10:52:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.39 Mbit/s
95th percentile per-packet one-way delay: 455.429 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 88.39 Mbit/s
95th percentile per-packet one-way delay: 455.429 ms
Loss rate: 1.08%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-03-19 10:06:33

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

Local clock offset: -7.047 ms

Remote clock offset: 3.628 ms

Below is generated by plot.py at 2019-03-19 10:52:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.66 Mbit/s

95th percentile per-packet one-way delay: 432.448 ms

Loss rate: 1.28%

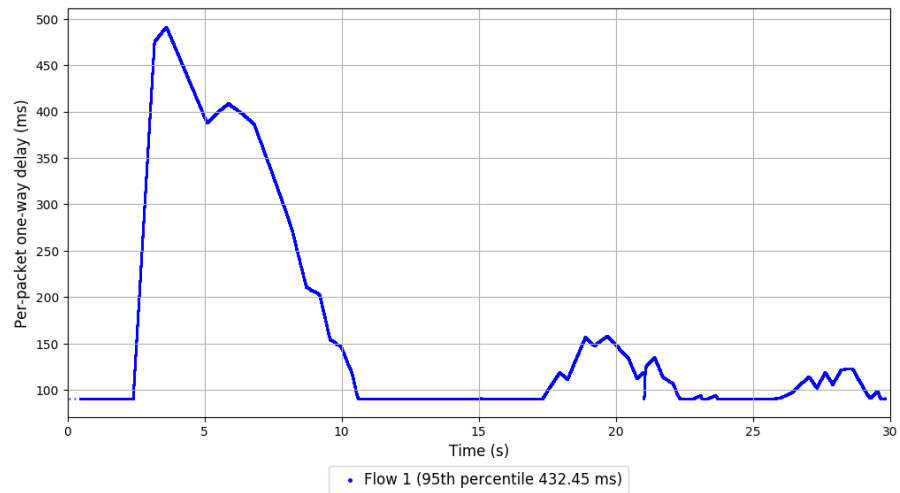
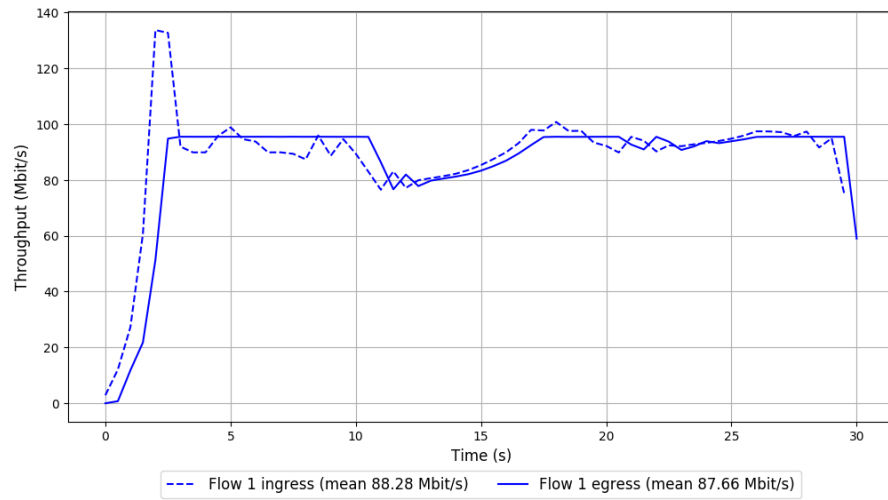
-- Flow 1:

Average throughput: 87.66 Mbit/s

95th percentile per-packet one-way delay: 432.448 ms

Loss rate: 1.28%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

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

End at: 2019-03-19 10:32:01

Local clock offset: -6.931 ms

Remote clock offset: 0.451 ms

Below is generated by plot.py at 2019-03-19 10:52:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.81 Mbit/s

95th percentile per-packet one-way delay: 454.250 ms

Loss rate: 1.41%

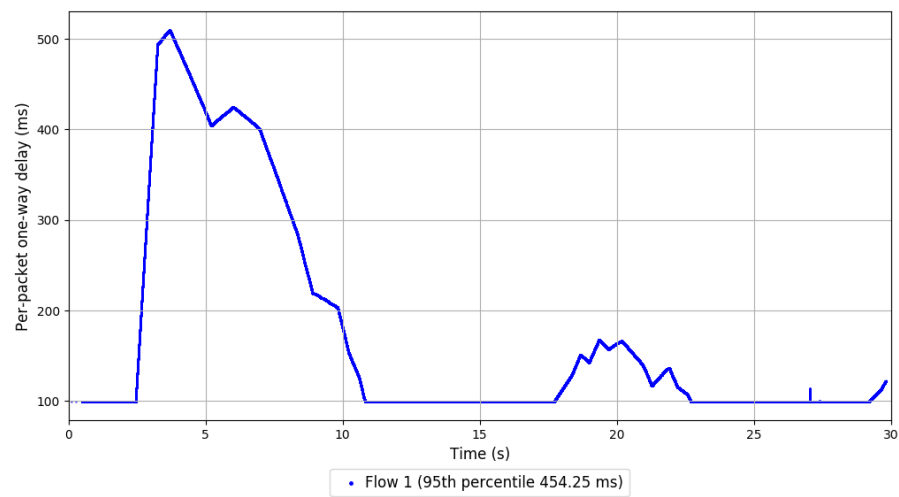
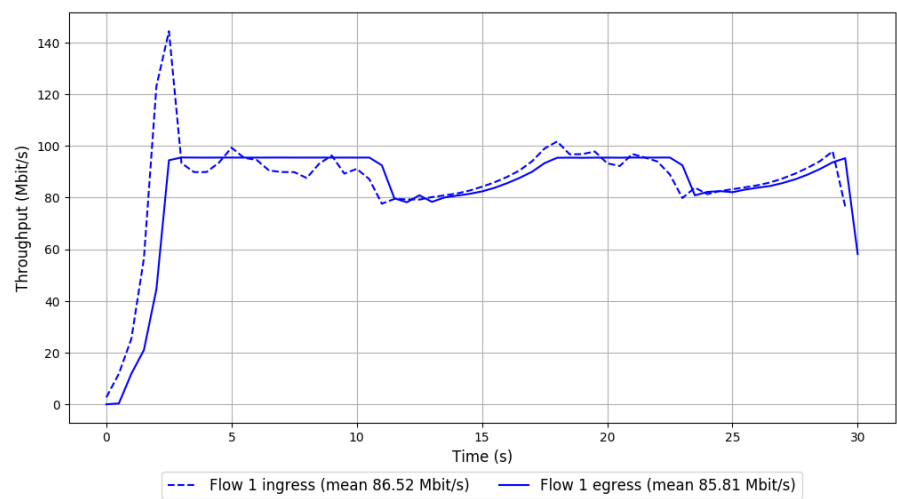
-- Flow 1:

Average throughput: 85.81 Mbit/s

95th percentile per-packet one-way delay: 454.250 ms

Loss rate: 1.41%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-03-19 08:41:59

End at: 2019-03-19 08:42:29

Local clock offset: -8.563 ms

Remote clock offset: 7.459 ms

Below is generated by plot.py at 2019-03-19 10:52:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.51 Mbit/s

95th percentile per-packet one-way delay: 95.831 ms

Loss rate: 0.88%

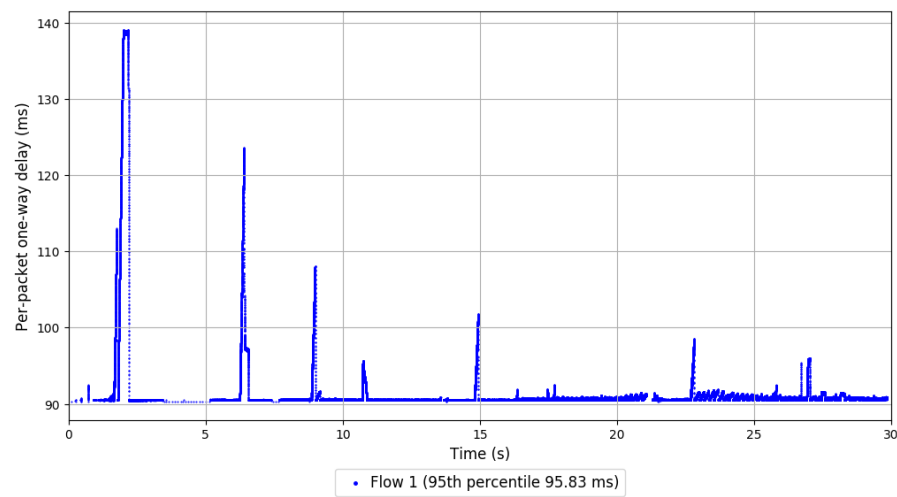
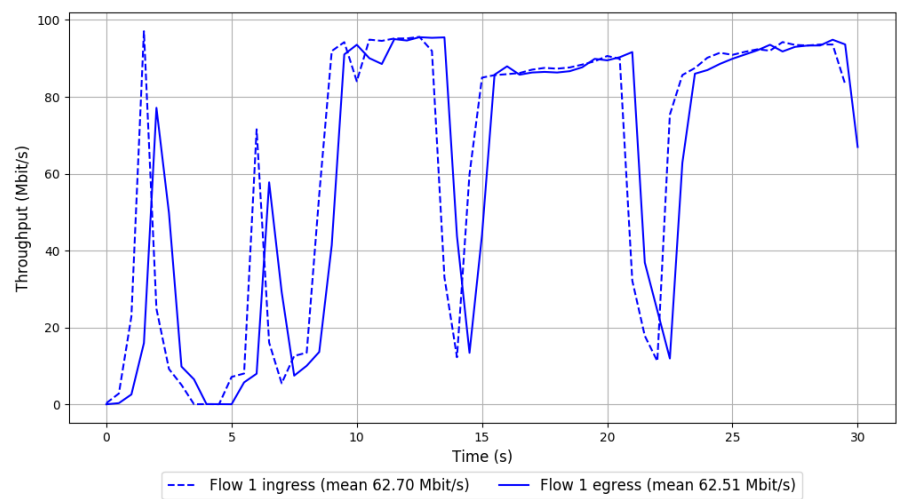
-- Flow 1:

Average throughput: 62.51 Mbit/s

95th percentile per-packet one-way delay: 95.831 ms

Loss rate: 0.88%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-03-19 09:07:01

End at: 2019-03-19 09:07:31

Local clock offset: -8.273 ms

Remote clock offset: 8.13 ms

Below is generated by plot.py at 2019-03-19 10:52:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.93 Mbit/s

95th percentile per-packet one-way delay: 90.272 ms

Loss rate: 1.22%

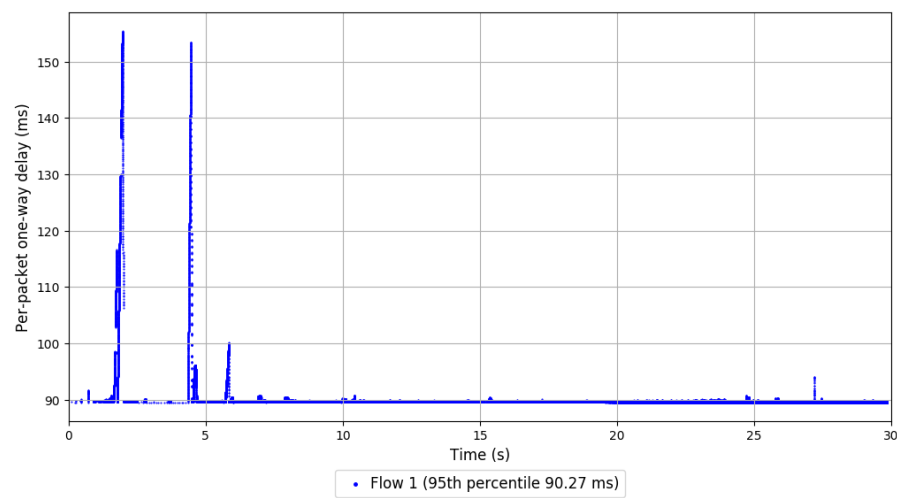
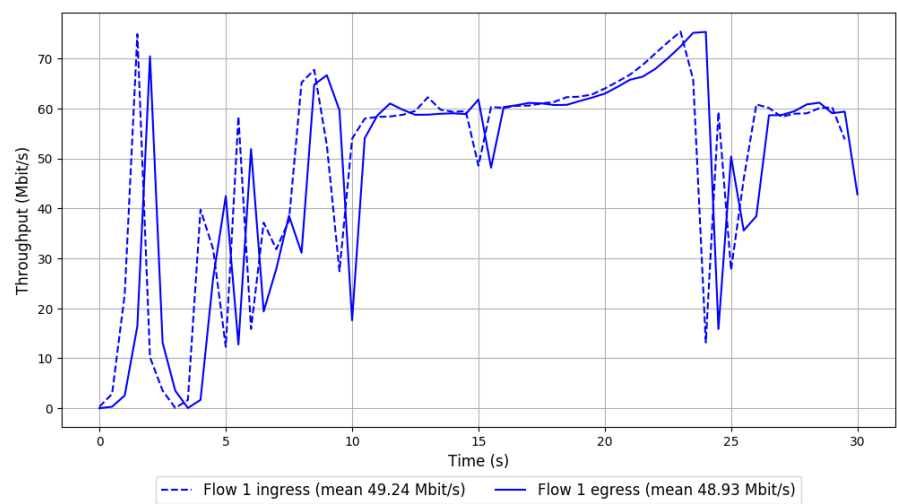
-- Flow 1:

Average throughput: 48.93 Mbit/s

95th percentile per-packet one-way delay: 90.272 ms

Loss rate: 1.22%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-03-19 09:32:02

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

Local clock offset: -7.175 ms

Remote clock offset: 3.763 ms

Below is generated by plot.py at 2019-03-19 10:52:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.25 Mbit/s

95th percentile per-packet one-way delay: 99.722 ms

Loss rate: 0.86%

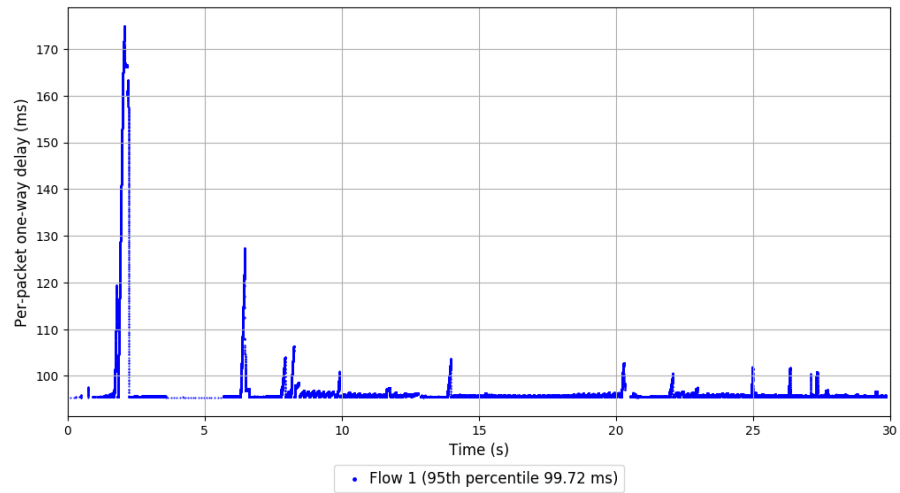
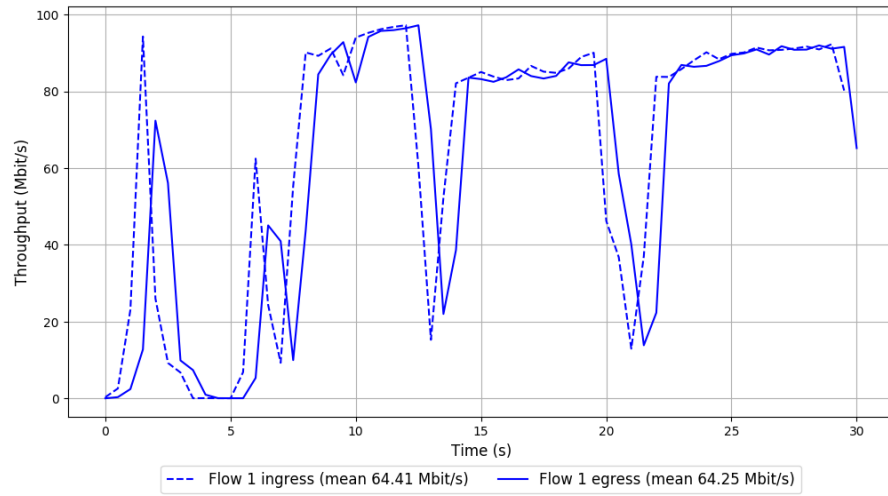
-- Flow 1:

Average throughput: 64.25 Mbit/s

95th percentile per-packet one-way delay: 99.722 ms

Loss rate: 0.86%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-03-19 09:57:04

End at: 2019-03-19 09:57:34

Local clock offset: -7.009 ms

Remote clock offset: 4.556 ms

Below is generated by plot.py at 2019-03-19 10:52:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.19 Mbit/s

95th percentile per-packet one-way delay: 96.343 ms

Loss rate: 1.59%

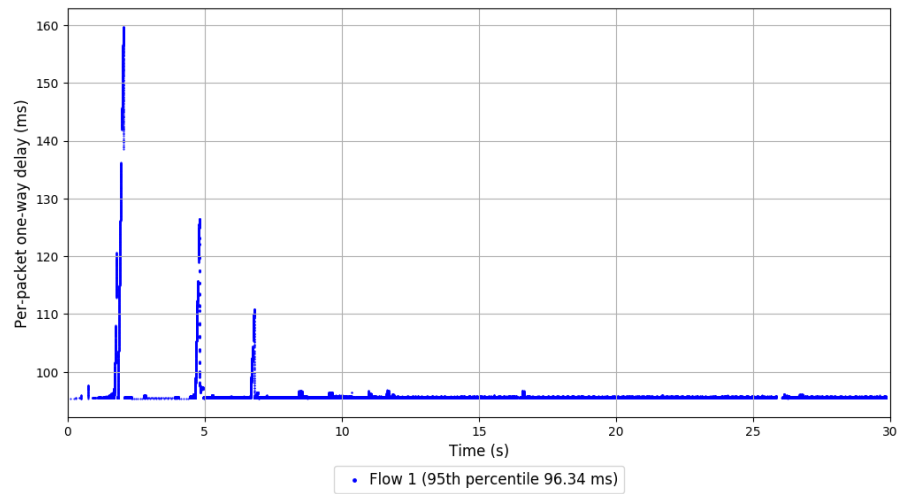
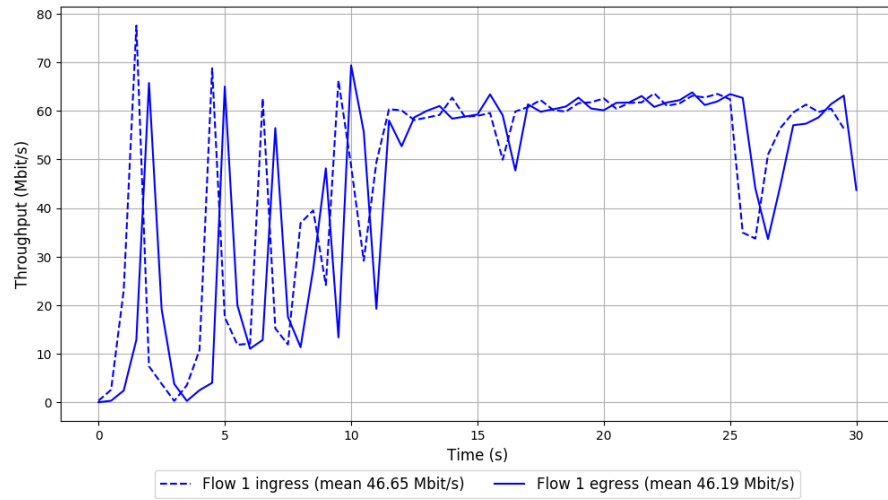
-- Flow 1:

Average throughput: 46.19 Mbit/s

95th percentile per-packet one-way delay: 96.343 ms

Loss rate: 1.59%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-03-19 10:22:04

End at: 2019-03-19 10:22:34

Local clock offset: -6.582 ms

Remote clock offset: 0.815 ms

Below is generated by plot.py at 2019-03-19 10:52:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.76 Mbit/s

95th percentile per-packet one-way delay: 102.505 ms

Loss rate: 0.89%

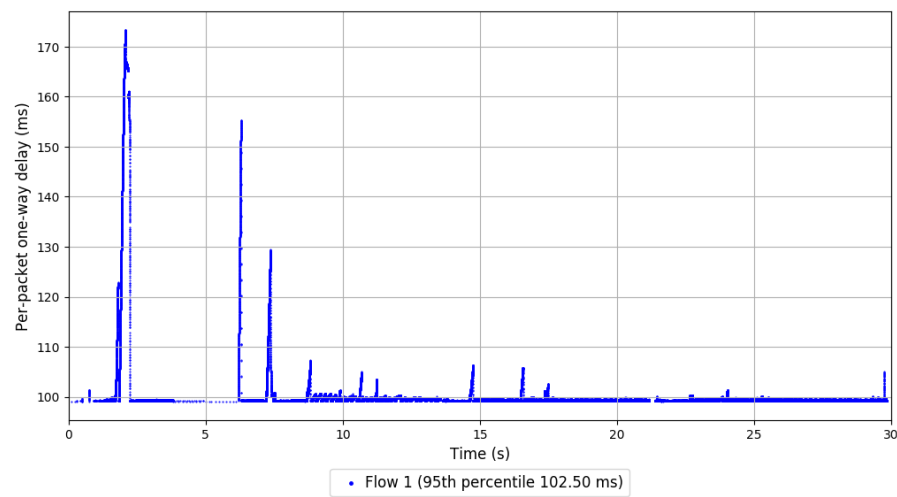
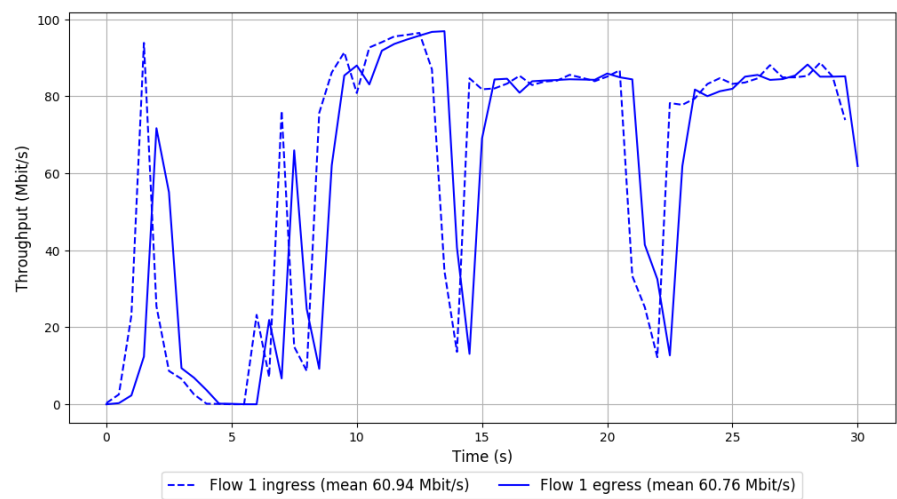
-- Flow 1:

Average throughput: 60.76 Mbit/s

95th percentile per-packet one-way delay: 102.505 ms

Loss rate: 0.89%

Run 5: Report of QUIC Cubic — Data Link

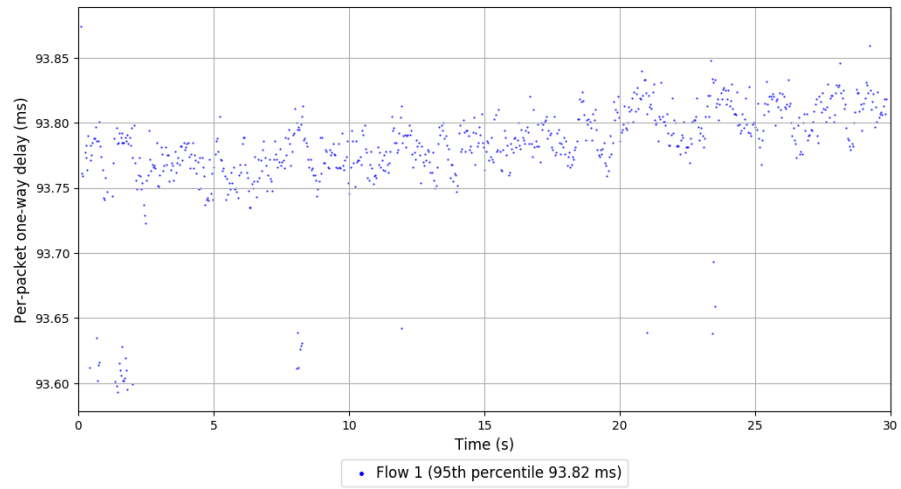
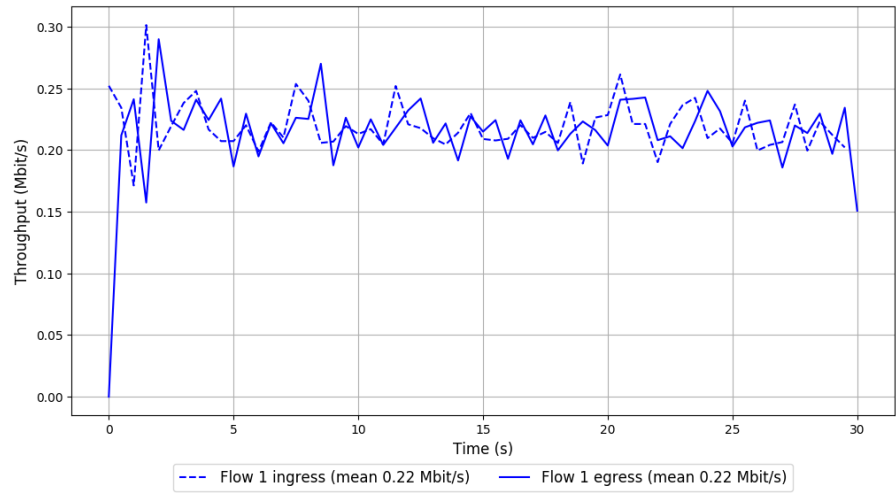


```
Run 1: Statistics of SCReAM

Start at: 2019-03-19 08:36:06
End at: 2019-03-19 08:36:36
Local clock offset: -8.142 ms
Remote clock offset: 3.493 ms

# Below is generated by plot.py at 2019-03-19 10:52:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 93.823 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 93.823 ms
Loss rate: 0.64%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-03-19 09:01:07

End at: 2019-03-19 09:01:37

Local clock offset: -8.089 ms

Remote clock offset: 4.86 ms

Below is generated by plot.py at 2019-03-19 10:52:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 94.010 ms

Loss rate: 0.64%

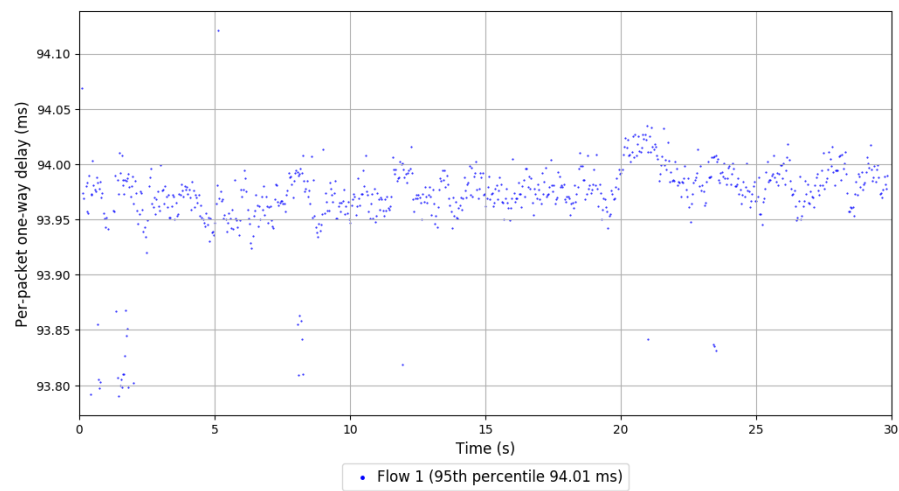
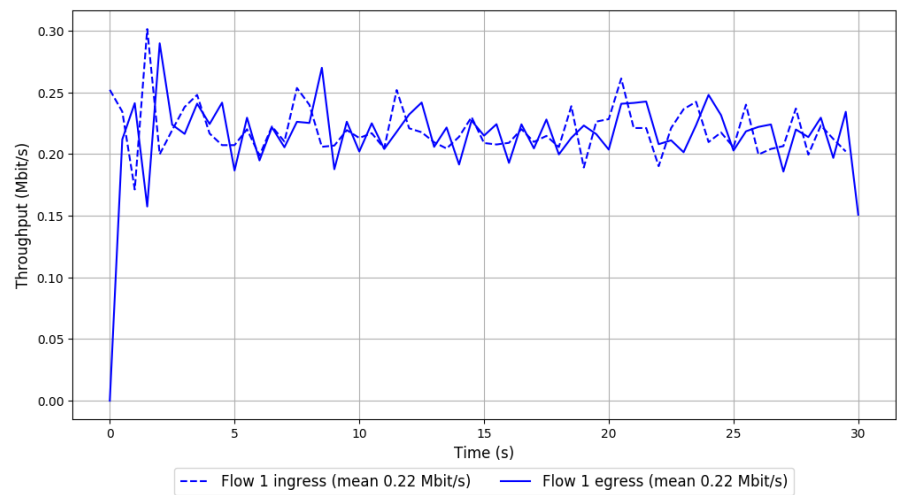
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 94.010 ms

Loss rate: 0.64%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

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

End at: 2019-03-19 09:26:39

Local clock offset: -8.146 ms

Remote clock offset: 3.119 ms

Below is generated by plot.py at 2019-03-19 10:52:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 95.818 ms

Loss rate: 0.51%

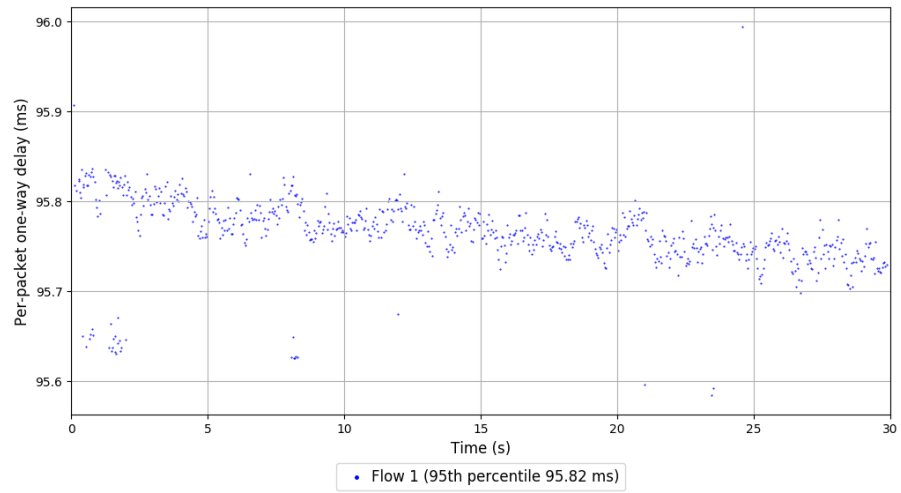
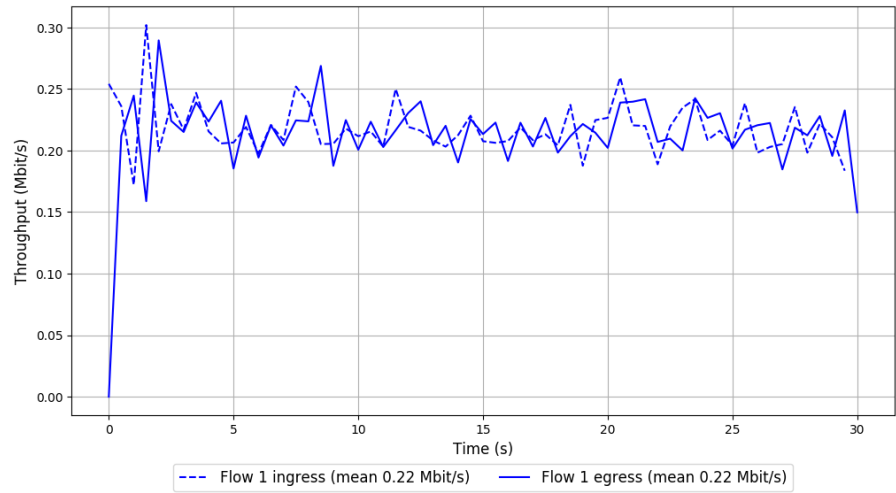
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 95.818 ms

Loss rate: 0.51%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-03-19 09:51:11

End at: 2019-03-19 09:51:41

Local clock offset: -7.029 ms

Remote clock offset: 5.583 ms

Below is generated by plot.py at 2019-03-19 10:52:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.869 ms

Loss rate: 0.64%

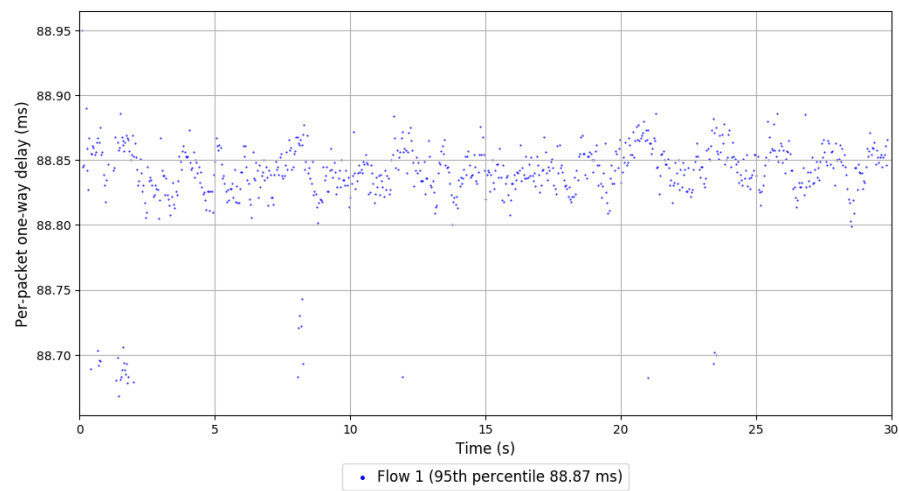
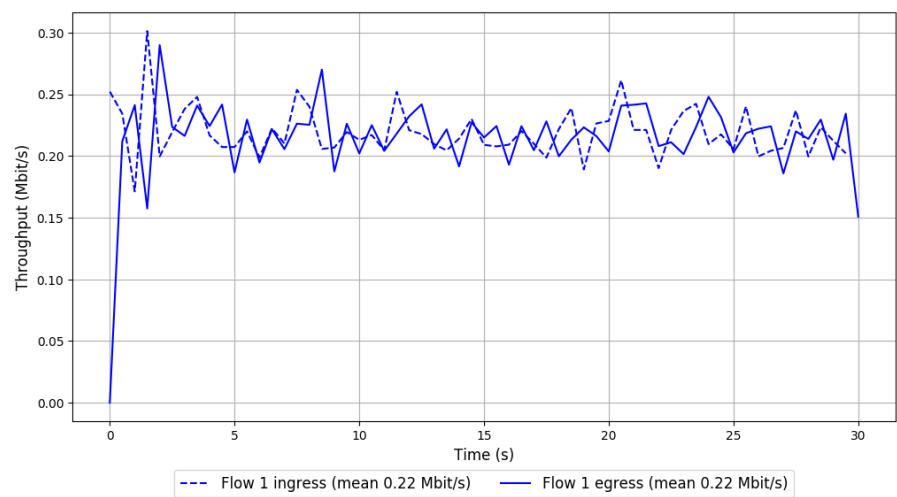
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.869 ms

Loss rate: 0.64%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-03-19 10:16:11

End at: 2019-03-19 10:16:41

Local clock offset: -7.138 ms

Remote clock offset: 5.822 ms

Below is generated by plot.py at 2019-03-19 10:52:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.750 ms

Loss rate: 0.64%

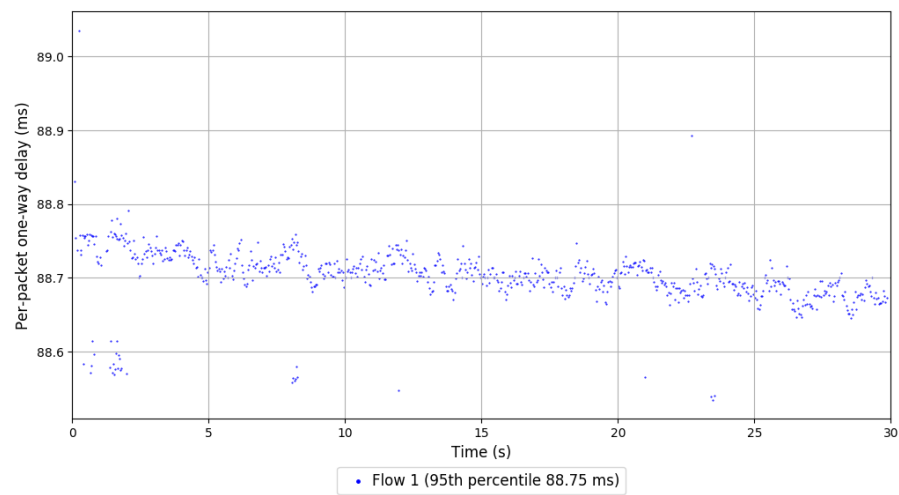
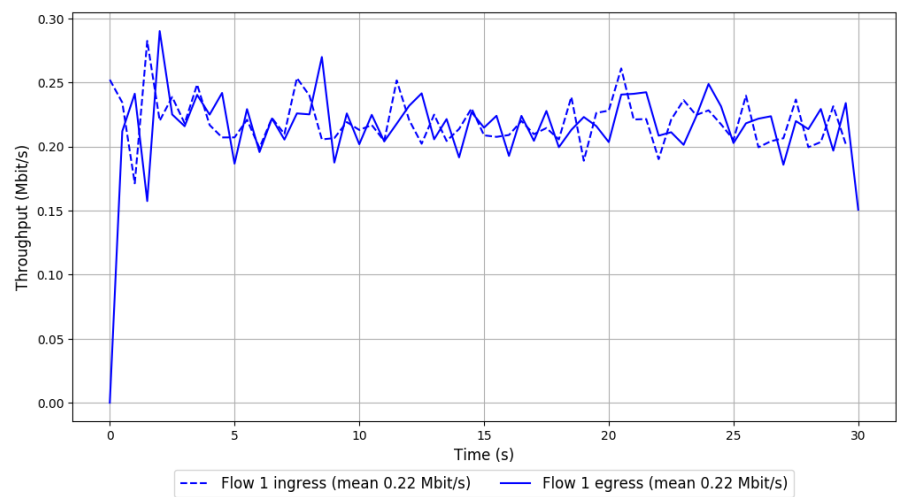
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.750 ms

Loss rate: 0.64%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-03-19 08:43:10

End at: 2019-03-19 08:43:40

Local clock offset: -7.907 ms

Remote clock offset: 3.805 ms

Below is generated by plot.py at 2019-03-19 10:52:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.60 Mbit/s

95th percentile per-packet one-way delay: 99.090 ms

Loss rate: 0.82%

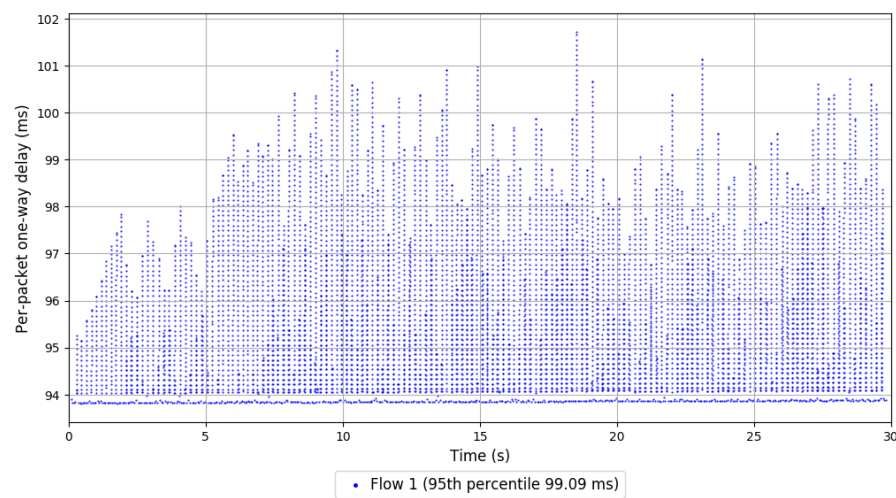
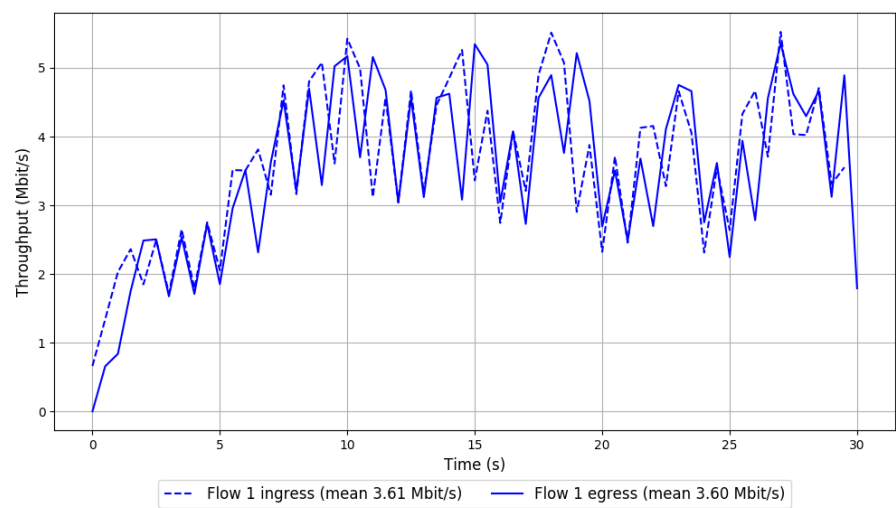
-- Flow 1:

Average throughput: 3.60 Mbit/s

95th percentile per-packet one-way delay: 99.090 ms

Loss rate: 0.82%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-03-19 09:08:11

End at: 2019-03-19 09:08:41

Local clock offset: -9.067 ms

Remote clock offset: 7.61 ms

Below is generated by plot.py at 2019-03-19 10:52:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 94.714 ms

Loss rate: 1.16%

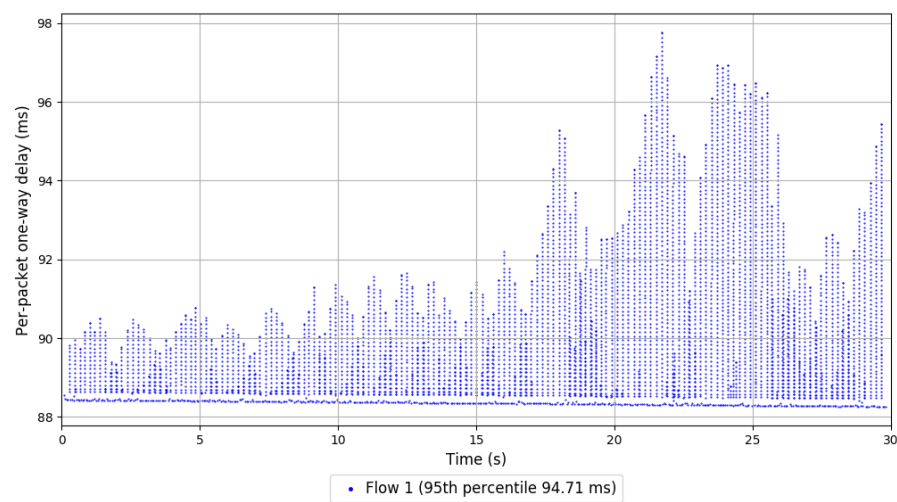
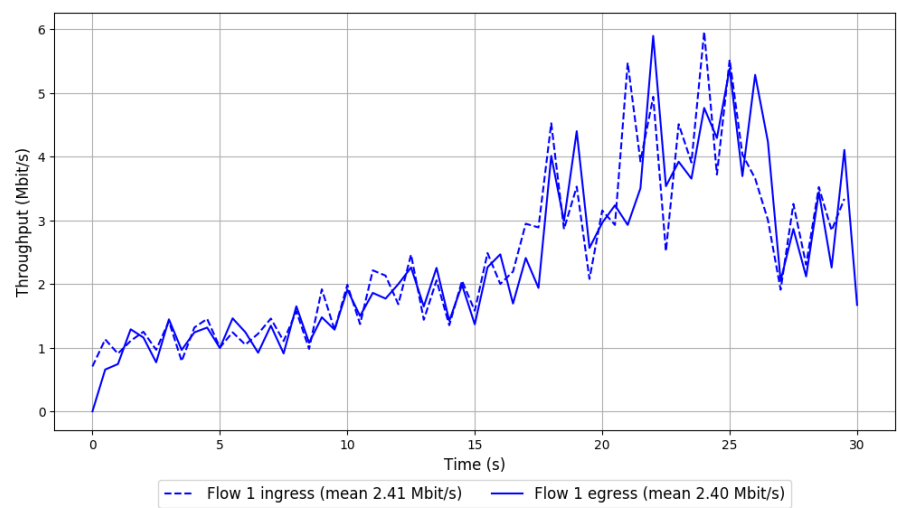
-- Flow 1:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 94.714 ms

Loss rate: 1.16%

Run 2: Report of Sprout — Data Link

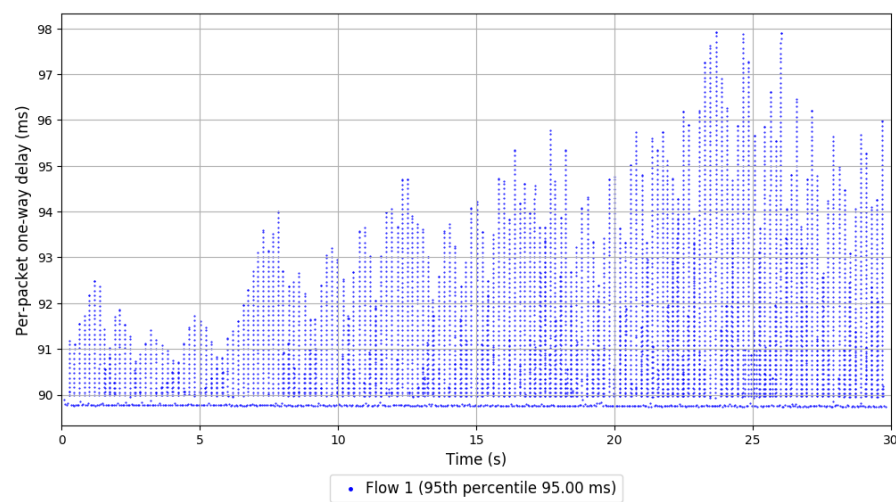
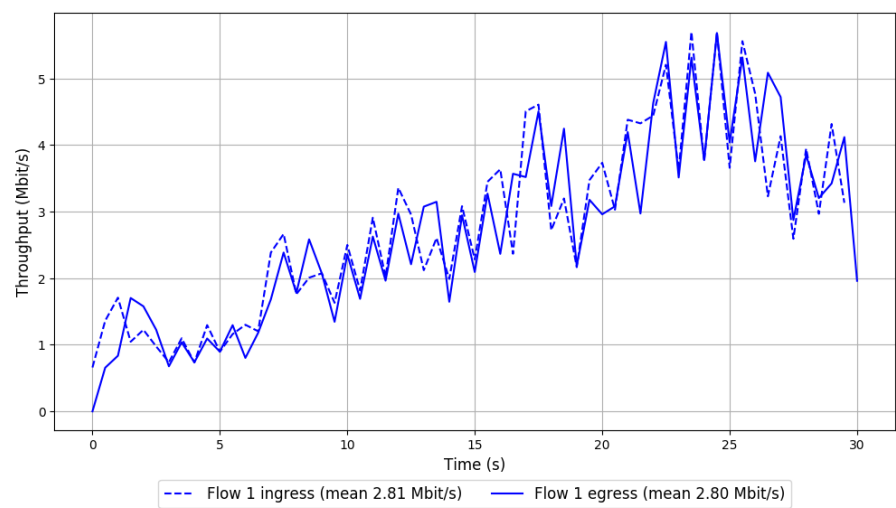


Run 3: Statistics of Sprout

Start at: 2019-03-19 09:33:13
End at: 2019-03-19 09:33:43
Local clock offset: -7.151 ms
Remote clock offset: 3.734 ms

Below is generated by plot.py at 2019-03-19 10:52:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.80 Mbit/s
95th percentile per-packet one-way delay: 95.004 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 2.80 Mbit/s
95th percentile per-packet one-way delay: 95.004 ms
Loss rate: 0.99%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-03-19 09:58:15

End at: 2019-03-19 09:58:45

Local clock offset: -7.014 ms

Remote clock offset: 0.769 ms

Below is generated by plot.py at 2019-03-19 10:52:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.09 Mbit/s

95th percentile per-packet one-way delay: 95.450 ms

Loss rate: 0.63%

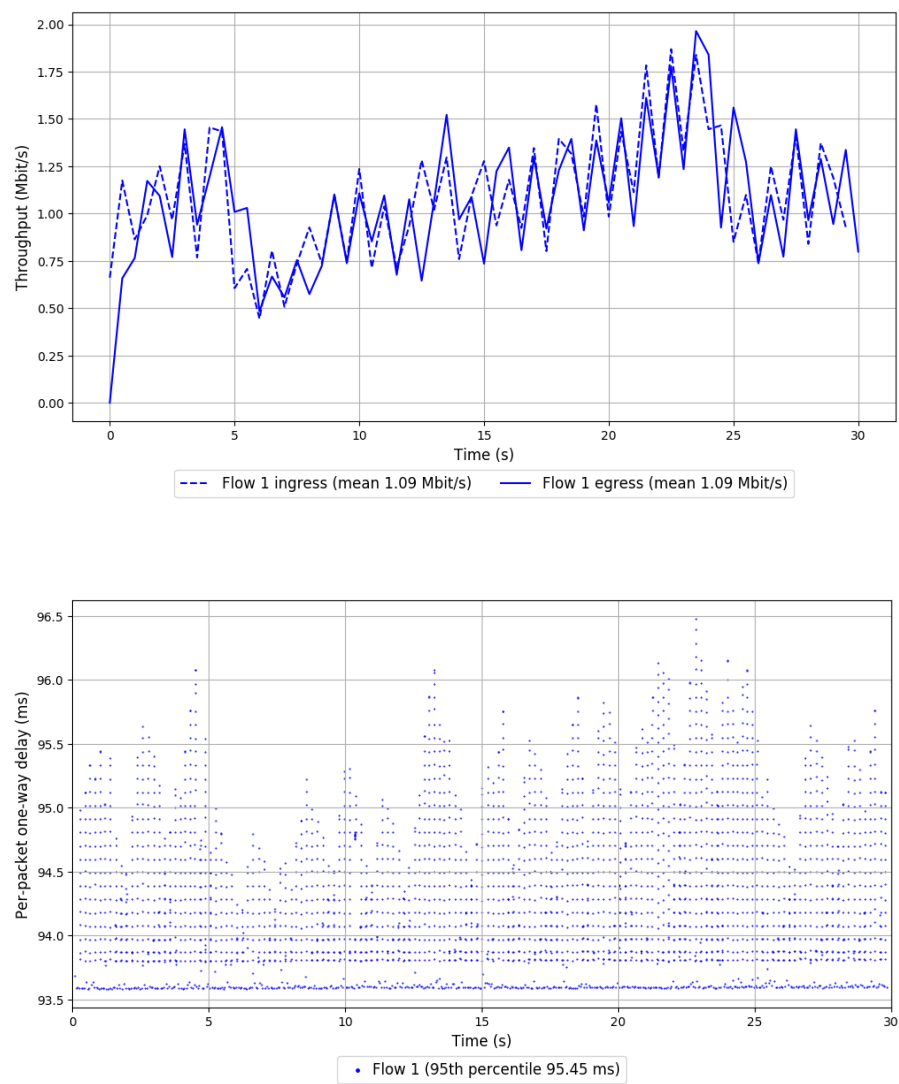
-- Flow 1:

Average throughput: 1.09 Mbit/s

95th percentile per-packet one-way delay: 95.450 ms

Loss rate: 0.63%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-03-19 10:23:15

End at: 2019-03-19 10:23:45

Local clock offset: -7.277 ms

Remote clock offset: 5.48 ms

Below is generated by plot.py at 2019-03-19 10:52:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.22 Mbit/s

95th percentile per-packet one-way delay: 92.431 ms

Loss rate: 0.78%

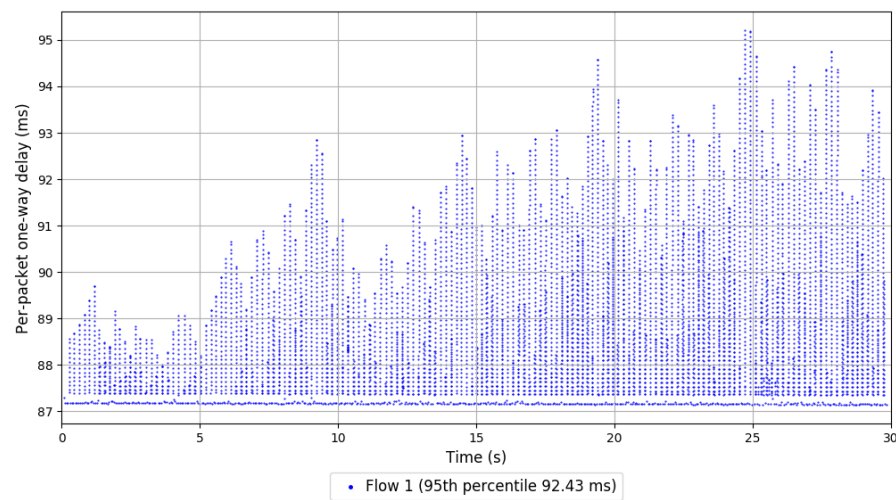
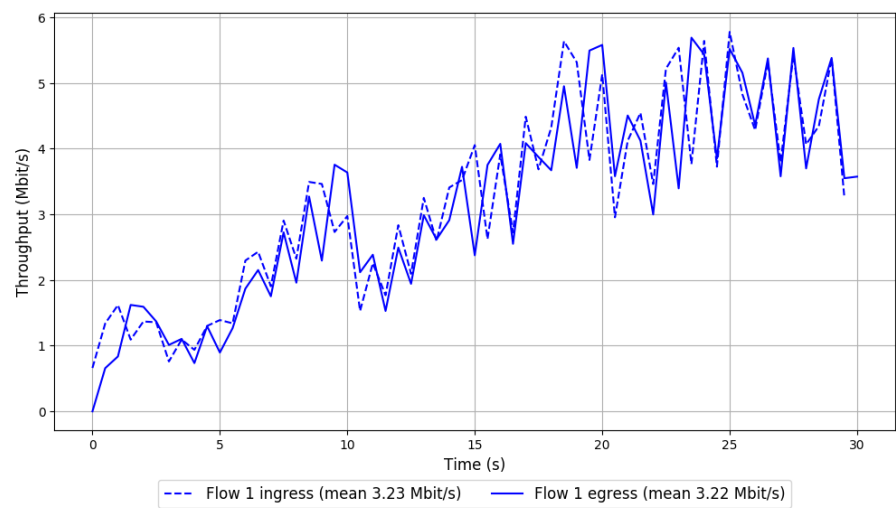
-- Flow 1:

Average throughput: 3.22 Mbit/s

95th percentile per-packet one-way delay: 92.431 ms

Loss rate: 0.78%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-03-19 08:45:26

End at: 2019-03-19 08:45:56

Local clock offset: -8.065 ms

Remote clock offset: 7.698 ms

Below is generated by plot.py at 2019-03-19 10:53:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.80 Mbit/s

95th percentile per-packet one-way delay: 118.643 ms

Loss rate: 0.82%

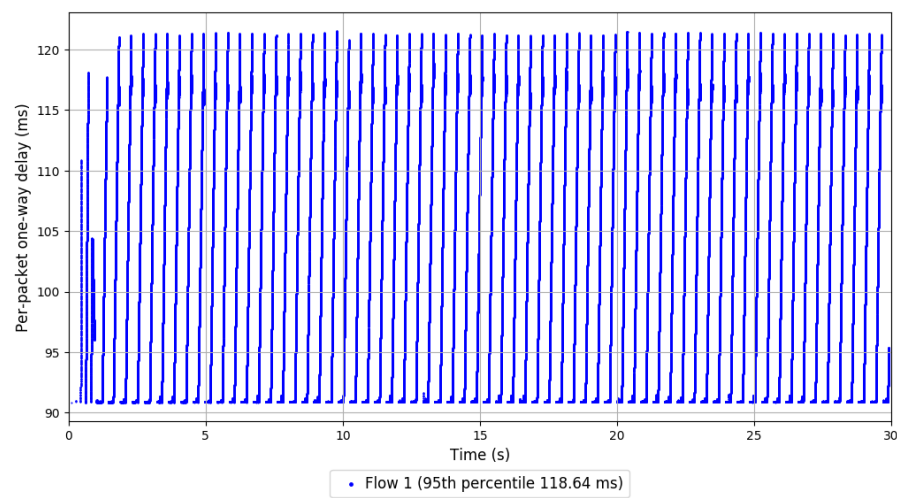
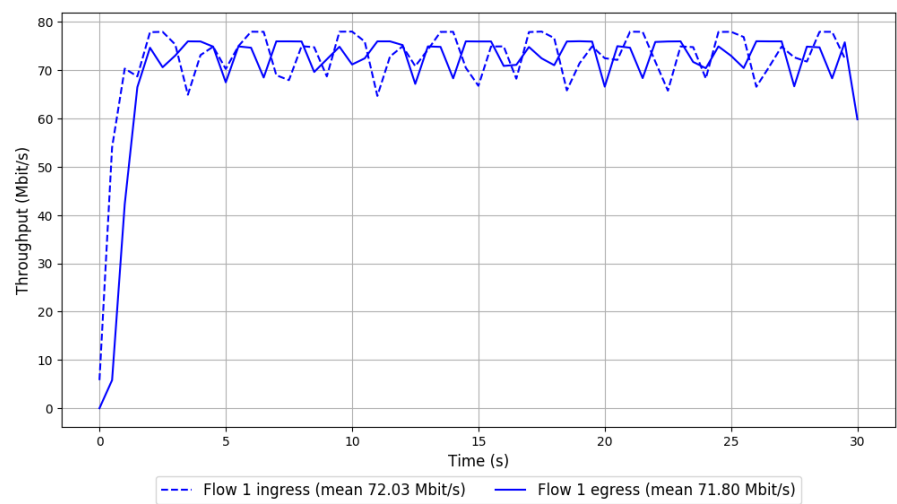
-- Flow 1:

Average throughput: 71.80 Mbit/s

95th percentile per-packet one-way delay: 118.643 ms

Loss rate: 0.82%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-03-19 09:10:27

End at: 2019-03-19 09:10:57

Local clock offset: -8.375 ms

Remote clock offset: 6.577 ms

Below is generated by plot.py at 2019-03-19 10:53:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.01 Mbit/s

95th percentile per-packet one-way delay: 124.480 ms

Loss rate: 0.69%

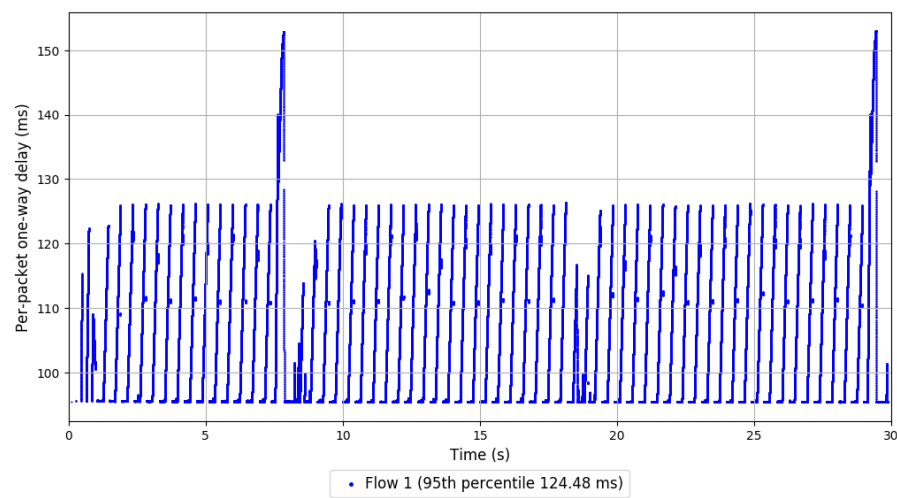
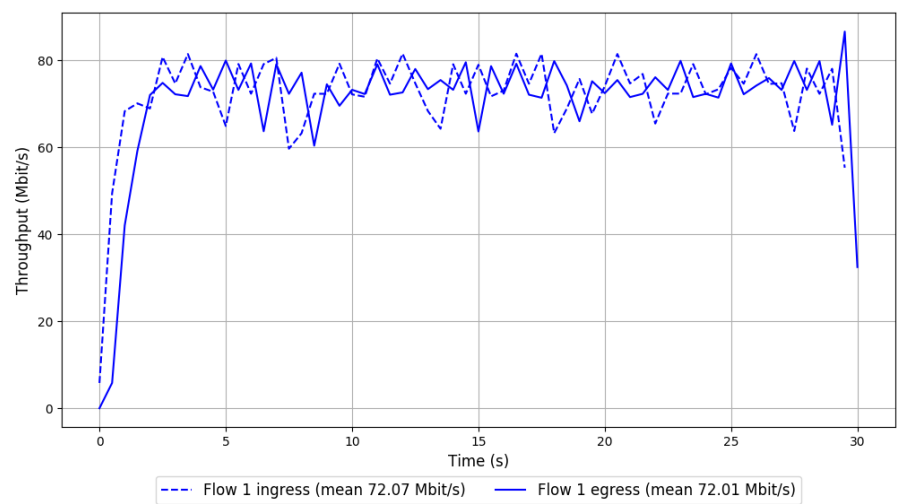
-- Flow 1:

Average throughput: 72.01 Mbit/s

95th percentile per-packet one-way delay: 124.480 ms

Loss rate: 0.69%

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

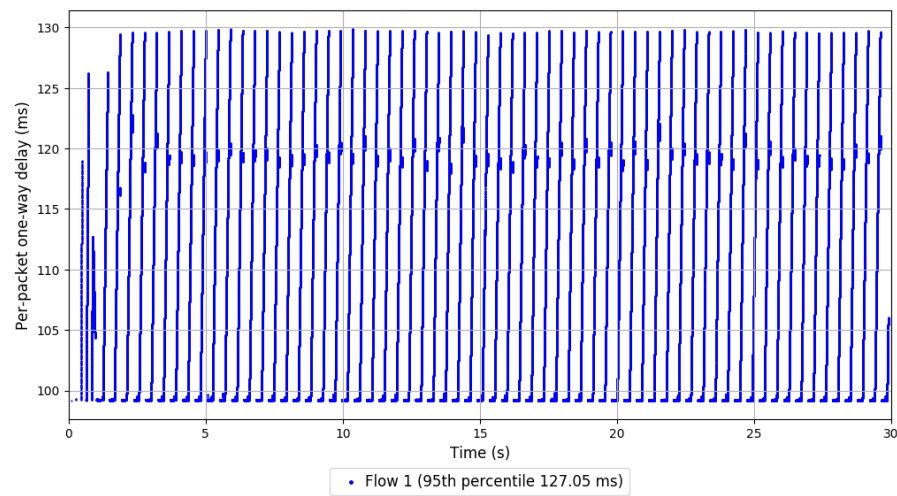
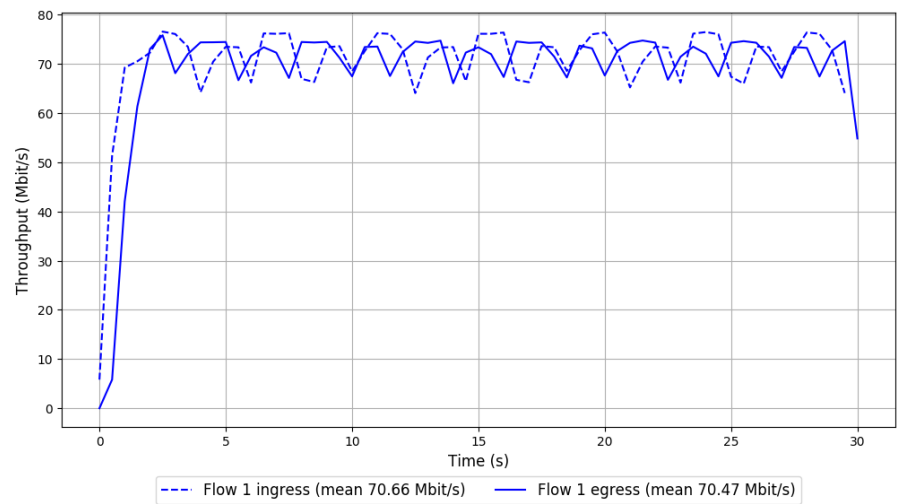


Run 3: Statistics of TaoVA-100x

Start at: 2019-03-19 09:35:29
End at: 2019-03-19 09:35:59
Local clock offset: -7.116 ms
Remote clock offset: -0.079 ms

Below is generated by plot.py at 2019-03-19 10:53:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 70.47 Mbit/s
95th percentile per-packet one-way delay: 127.047 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 70.47 Mbit/s
95th percentile per-packet one-way delay: 127.047 ms
Loss rate: 0.76%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-03-19 10:00:30

End at: 2019-03-19 10:01:00

Local clock offset: -7.766 ms

Remote clock offset: 5.73 ms

Below is generated by plot.py at 2019-03-19 10:53:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.42 Mbit/s

95th percentile per-packet one-way delay: 107.381 ms

Loss rate: 6.89%

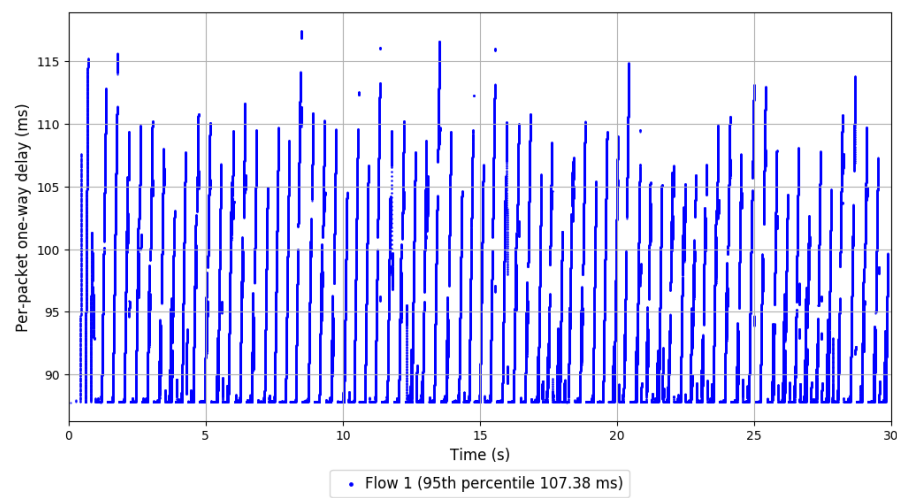
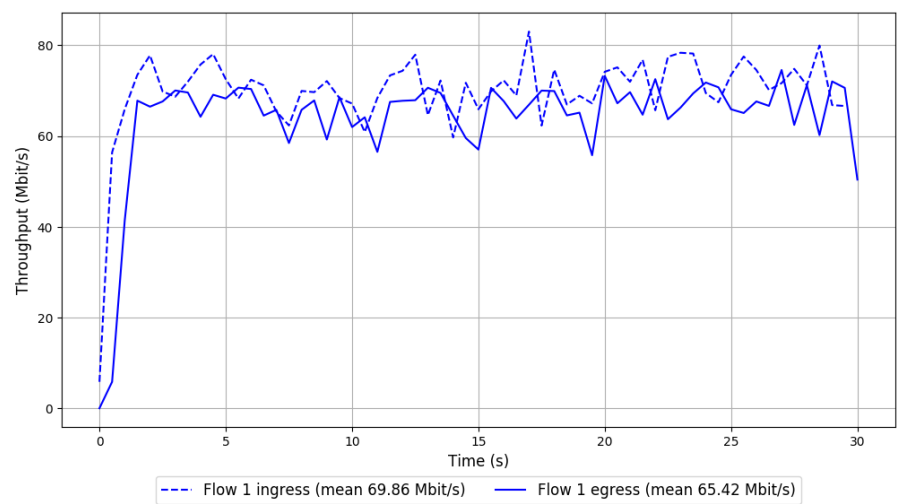
-- Flow 1:

Average throughput: 65.42 Mbit/s

95th percentile per-packet one-way delay: 107.381 ms

Loss rate: 6.89%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-03-19 10:25:31

End at: 2019-03-19 10:26:01

Local clock offset: -6.461 ms

Remote clock offset: 4.55 ms

Below is generated by plot.py at 2019-03-19 10:53:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.19 Mbit/s

95th percentile per-packet one-way delay: 116.966 ms

Loss rate: 0.88%

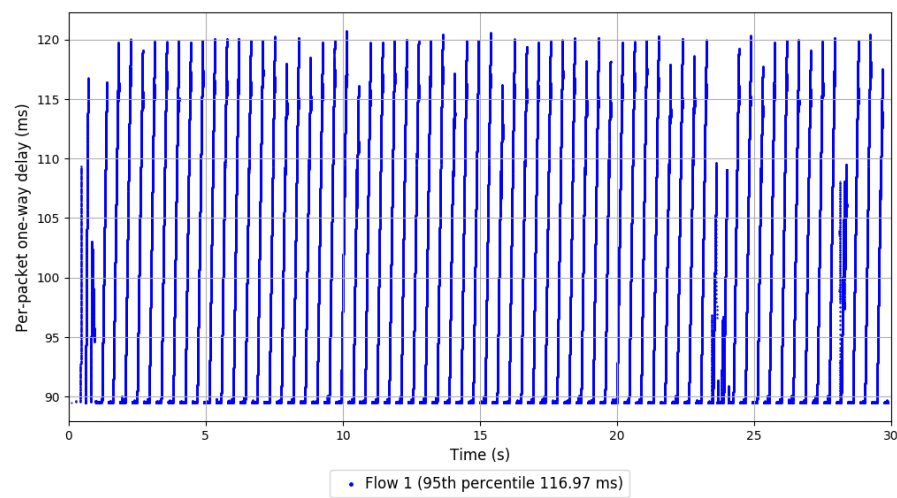
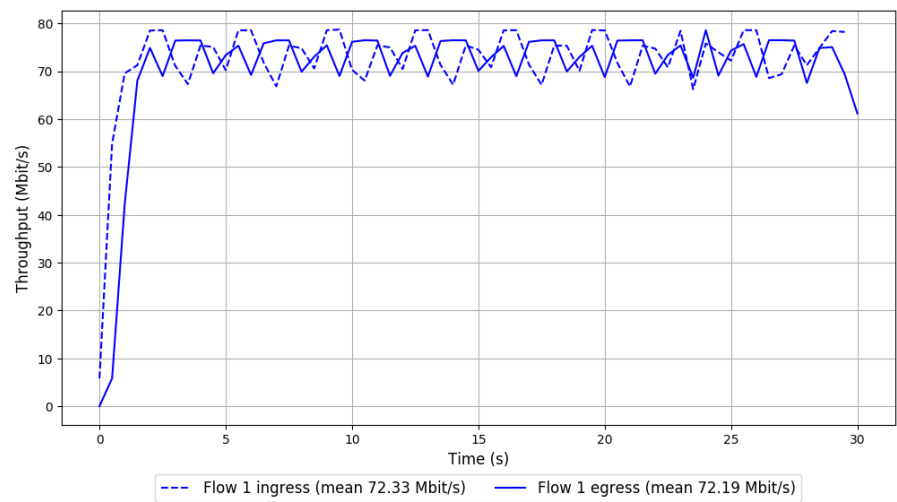
-- Flow 1:

Average throughput: 72.19 Mbit/s

95th percentile per-packet one-way delay: 116.966 ms

Loss rate: 0.88%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-03-19 08:59:56

End at: 2019-03-19 09:00:26

Local clock offset: -8.817 ms

Remote clock offset: 5.872 ms

Below is generated by plot.py at 2019-03-19 10:53:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.22 Mbit/s

95th percentile per-packet one-way delay: 112.467 ms

Loss rate: 0.62%

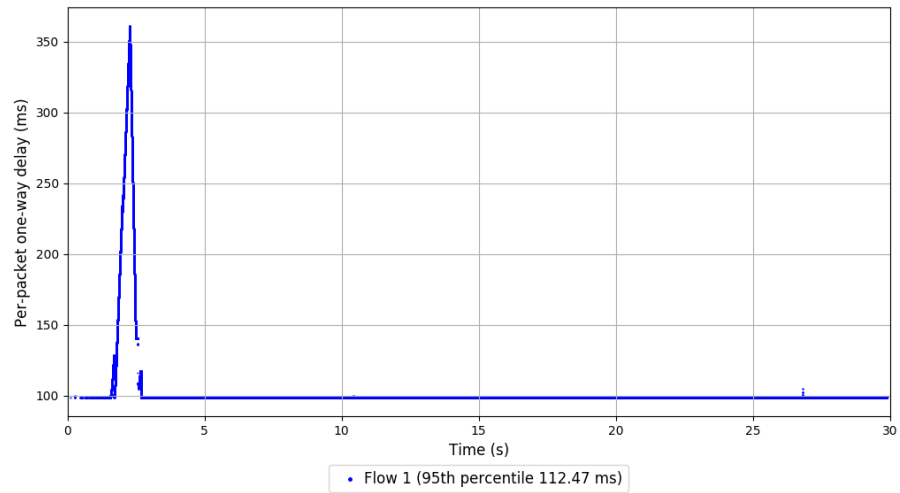
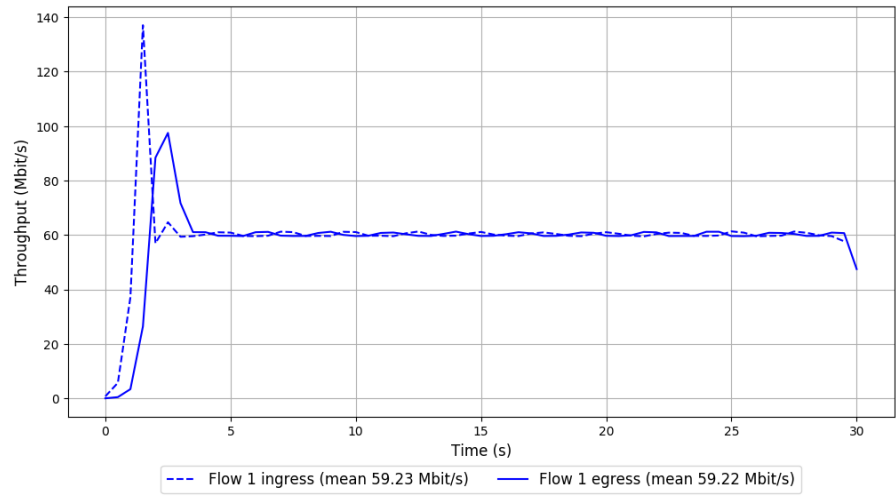
-- Flow 1:

Average throughput: 59.22 Mbit/s

95th percentile per-packet one-way delay: 112.467 ms

Loss rate: 0.62%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-03-19 09:24:59

End at: 2019-03-19 09:25:29

Local clock offset: -8.226 ms

Remote clock offset: 0.502 ms

Below is generated by plot.py at 2019-03-19 10:53:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.57 Mbit/s

95th percentile per-packet one-way delay: 168.729 ms

Loss rate: 0.71%

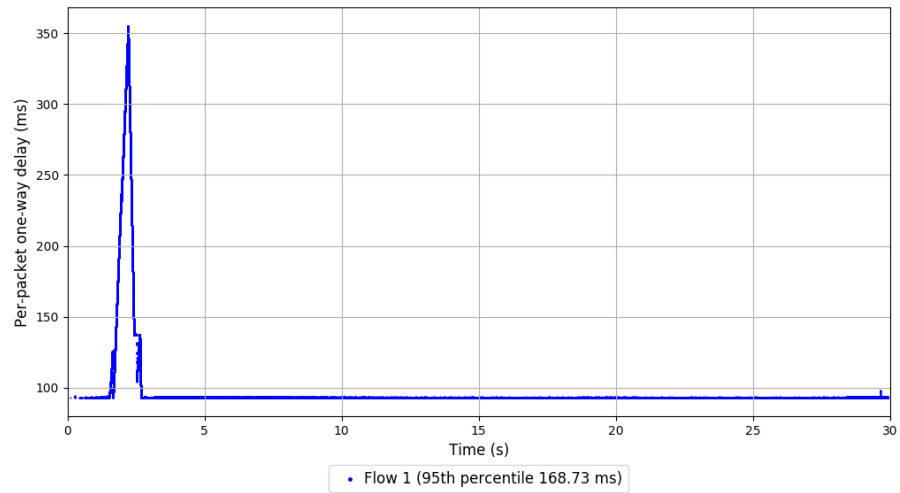
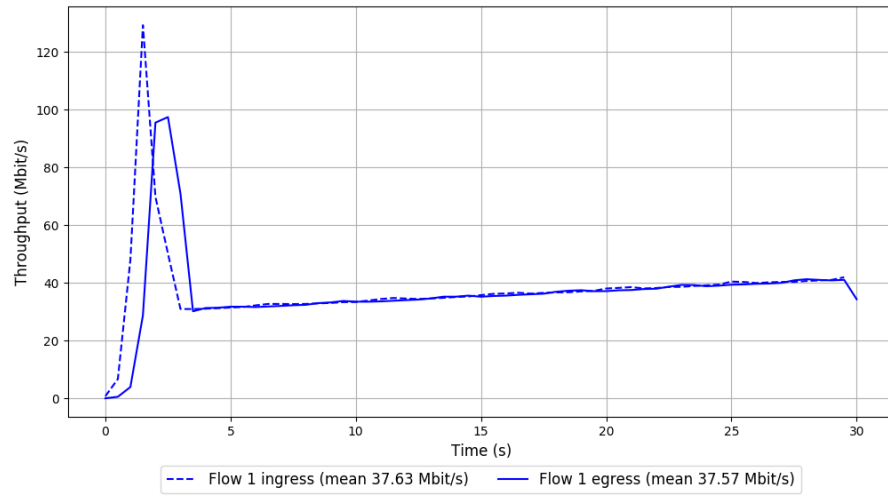
-- Flow 1:

Average throughput: 37.57 Mbit/s

95th percentile per-packet one-way delay: 168.729 ms

Loss rate: 0.71%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-03-19 09:50:01

End at: 2019-03-19 09:50:31

Local clock offset: -7.06 ms

Remote clock offset: 4.286 ms

Below is generated by plot.py at 2019-03-19 10:53:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.65 Mbit/s

95th percentile per-packet one-way delay: 165.544 ms

Loss rate: 1.05%

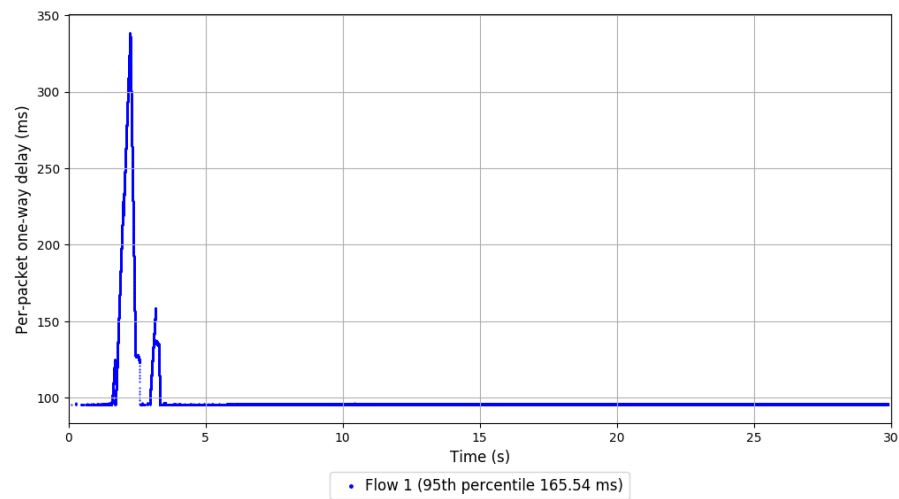
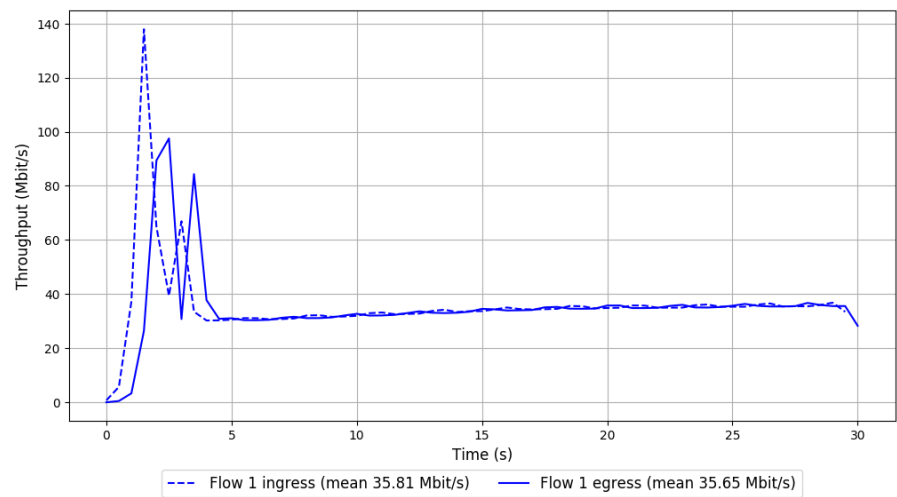
-- Flow 1:

Average throughput: 35.65 Mbit/s

95th percentile per-packet one-way delay: 165.544 ms

Loss rate: 1.05%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-03-19 10:15:02

End at: 2019-03-19 10:15:32

Local clock offset: -7.183 ms

Remote clock offset: -0.19 ms

Below is generated by plot.py at 2019-03-19 10:53:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.31 Mbit/s

95th percentile per-packet one-way delay: 173.721 ms

Loss rate: 0.67%

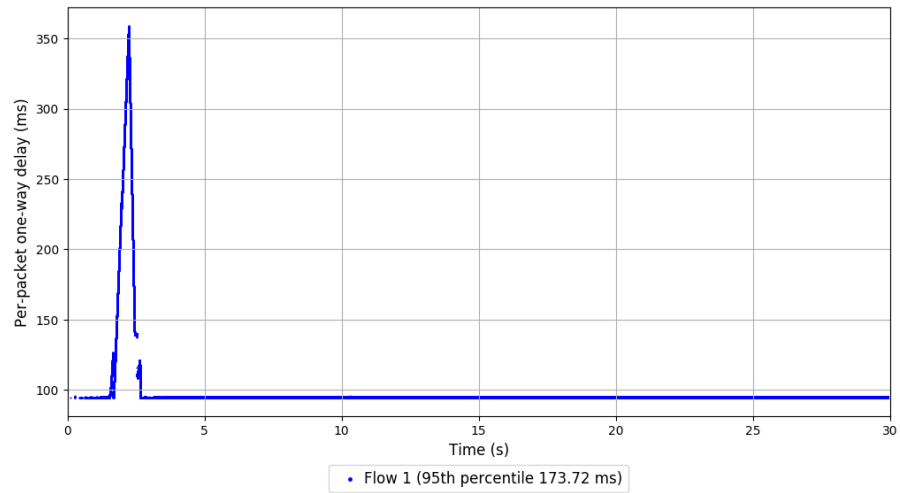
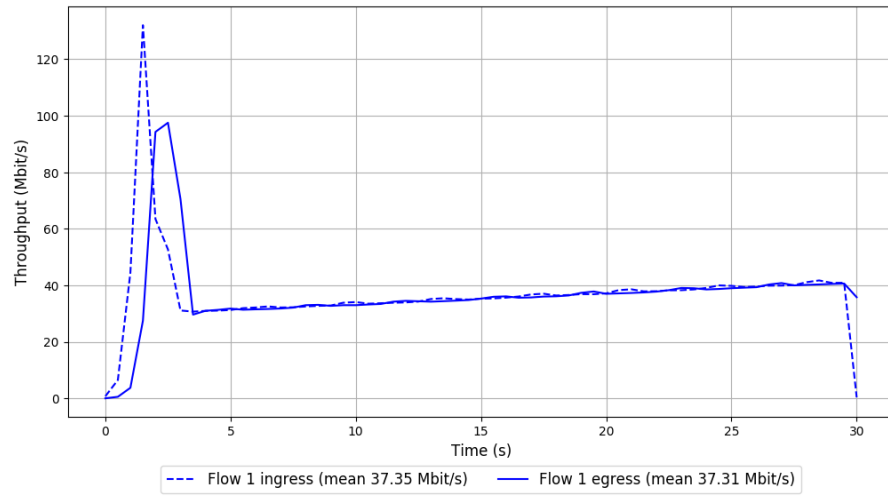
-- Flow 1:

Average throughput: 37.31 Mbit/s

95th percentile per-packet one-way delay: 173.721 ms

Loss rate: 0.67%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-03-19 10:39:58

End at: 2019-03-19 10:40:28

Local clock offset: -6.034 ms

Remote clock offset: 4.528 ms

Below is generated by plot.py at 2019-03-19 10:53:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.68 Mbit/s

95th percentile per-packet one-way delay: 171.353 ms

Loss rate: 0.63%

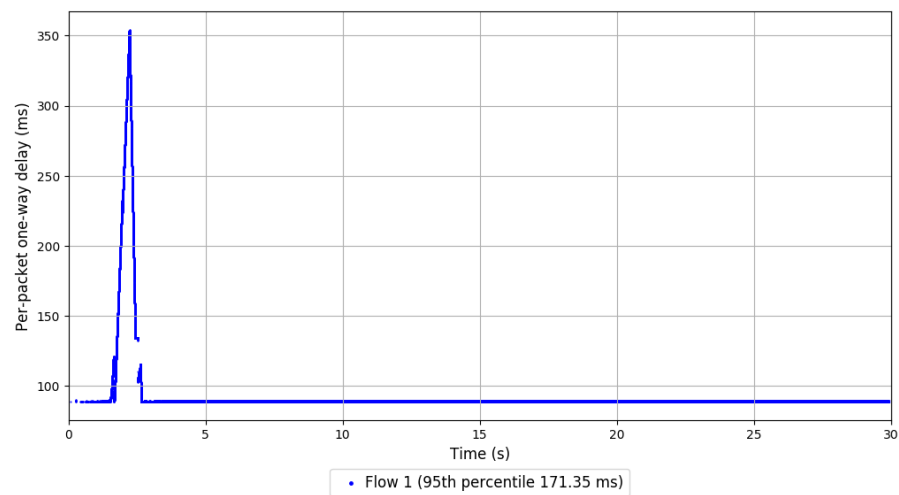
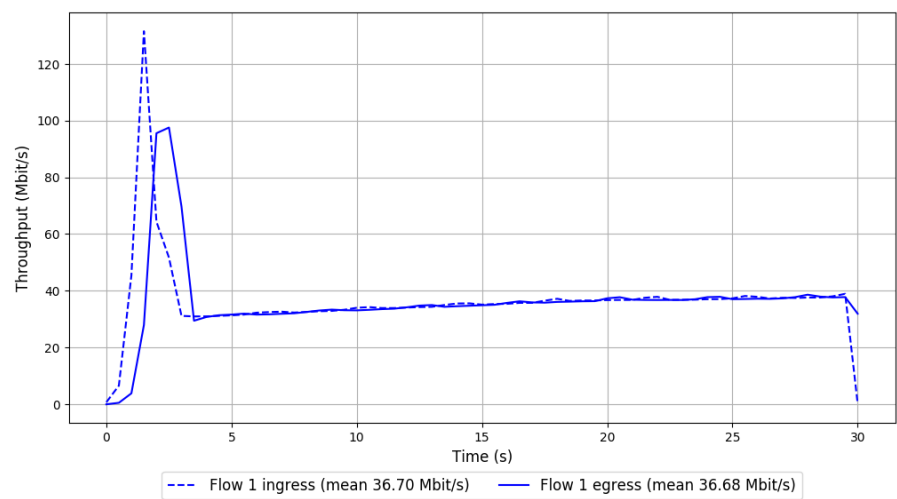
-- Flow 1:

Average throughput: 36.68 Mbit/s

95th percentile per-packet one-way delay: 171.353 ms

Loss rate: 0.63%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-03-19 08:56:21

End at: 2019-03-19 08:56:51

Local clock offset: -8.782 ms

Remote clock offset: 5.748 ms

Below is generated by plot.py at 2019-03-19 10:53:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.35 Mbit/s

95th percentile per-packet one-way delay: 286.587 ms

Loss rate: 1.13%

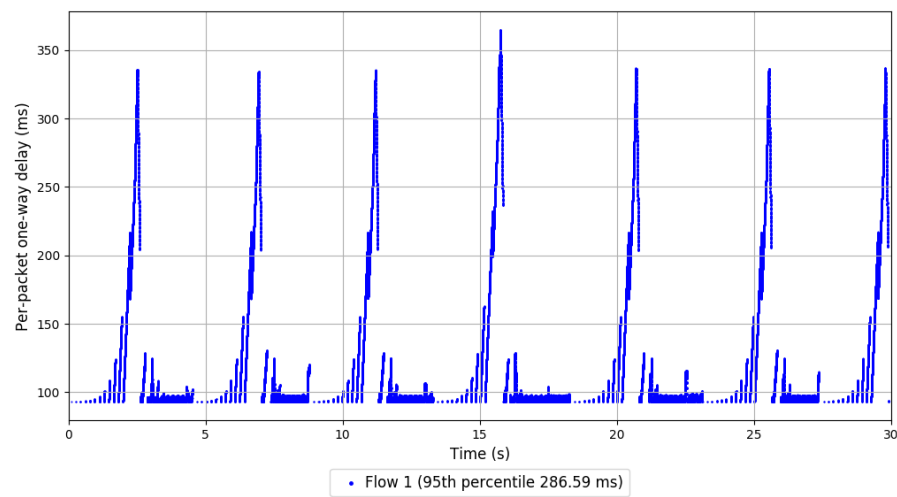
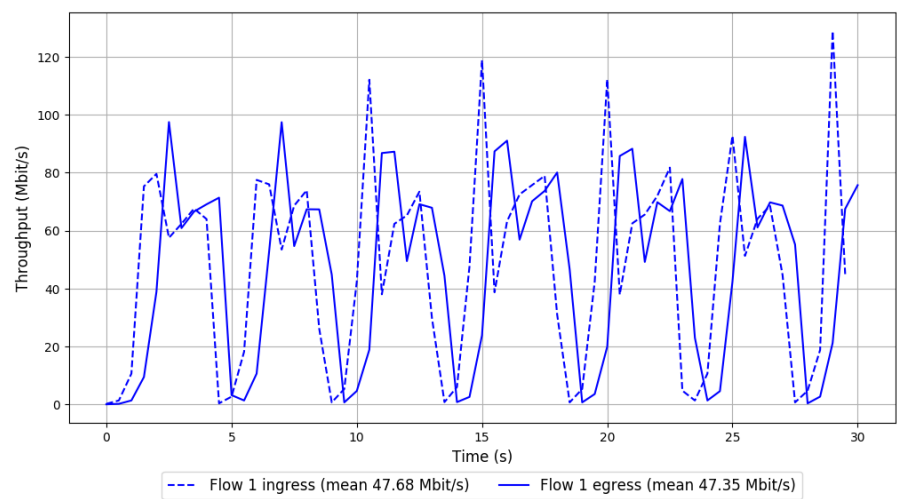
-- Flow 1:

Average throughput: 47.35 Mbit/s

95th percentile per-packet one-way delay: 286.587 ms

Loss rate: 1.13%

Run 1: Report of Verus — Data Link

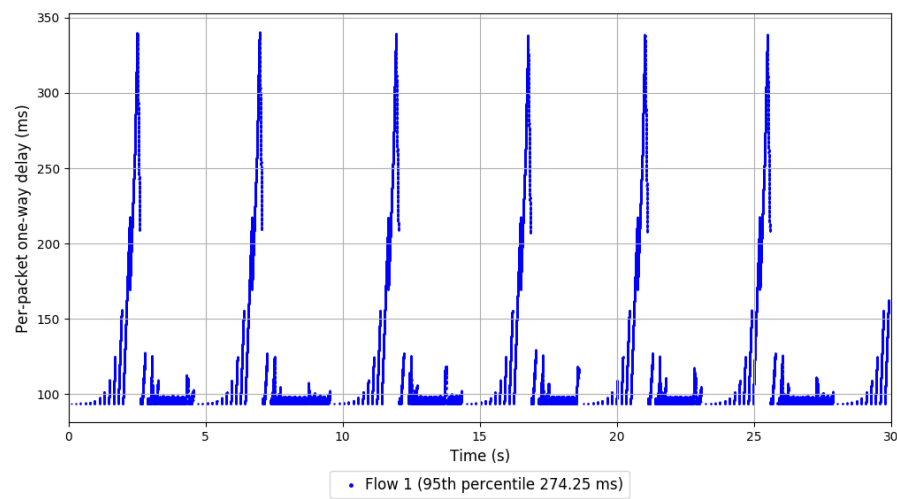
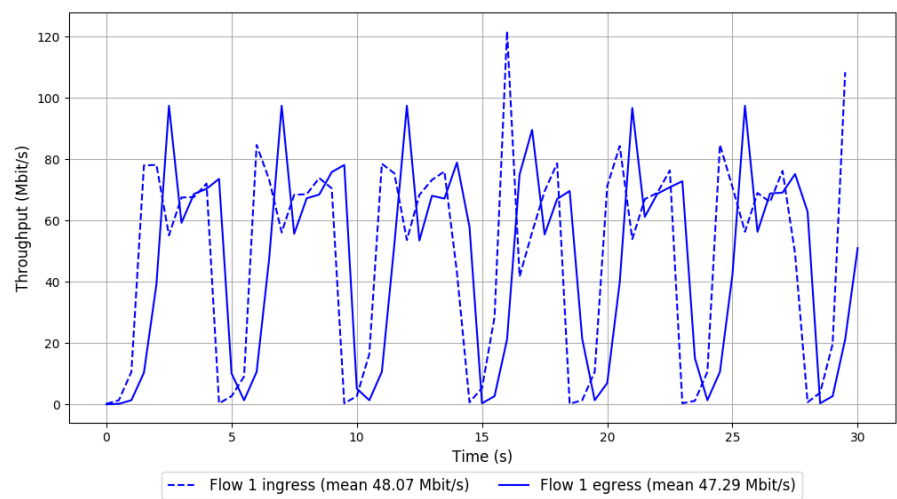


Run 2: Statistics of Verus

Start at: 2019-03-19 09:21:25
End at: 2019-03-19 09:21:55
Local clock offset: -7.785 ms
Remote clock offset: 0.789 ms

Below is generated by plot.py at 2019-03-19 10:53:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 47.29 Mbit/s
95th percentile per-packet one-way delay: 274.246 ms
Loss rate: 2.05%
-- Flow 1:
Average throughput: 47.29 Mbit/s
95th percentile per-packet one-way delay: 274.246 ms
Loss rate: 2.05%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-03-19 09:46:25

End at: 2019-03-19 09:46:55

Local clock offset: -7.118 ms

Remote clock offset: 5.181 ms

Below is generated by plot.py at 2019-03-19 10:53:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.20 Mbit/s

95th percentile per-packet one-way delay: 272.133 ms

Loss rate: 2.20%

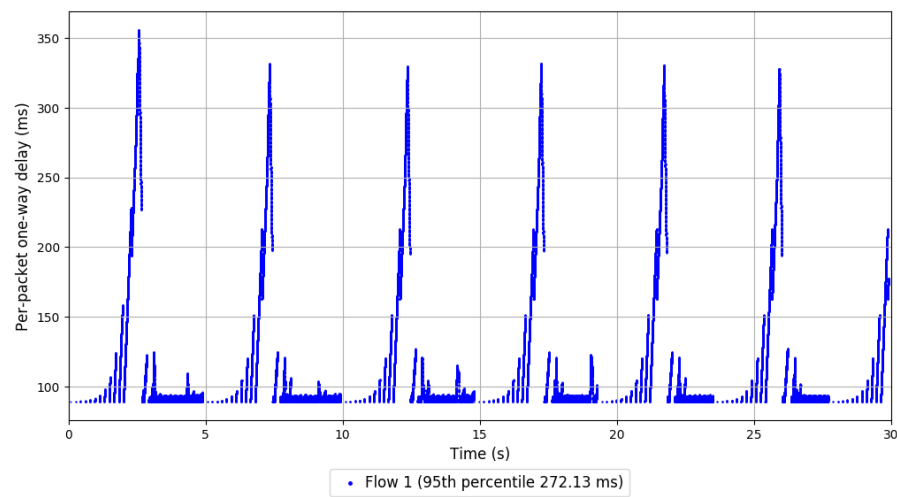
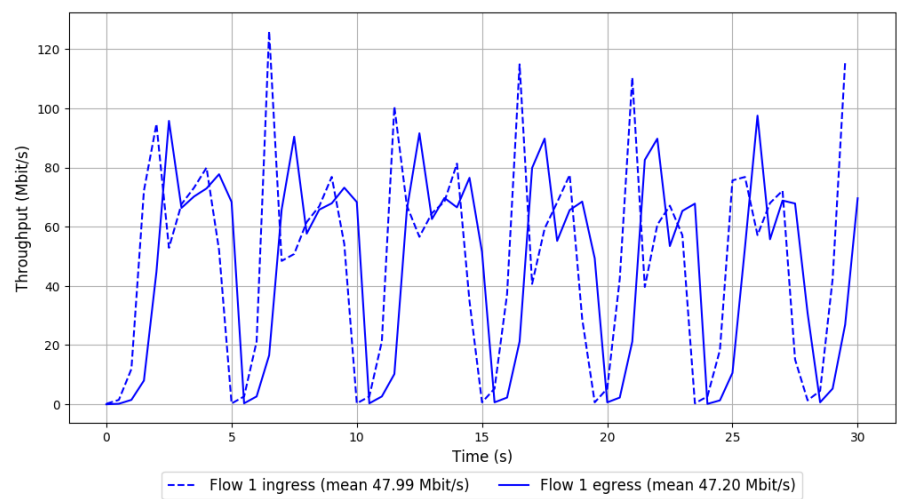
-- Flow 1:

Average throughput: 47.20 Mbit/s

95th percentile per-packet one-way delay: 272.133 ms

Loss rate: 2.20%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-03-19 10:11:27

End at: 2019-03-19 10:11:57

Local clock offset: -7.863 ms

Remote clock offset: 0.841 ms

Below is generated by plot.py at 2019-03-19 10:53:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.94 Mbit/s

95th percentile per-packet one-way delay: 269.995 ms

Loss rate: 0.54%

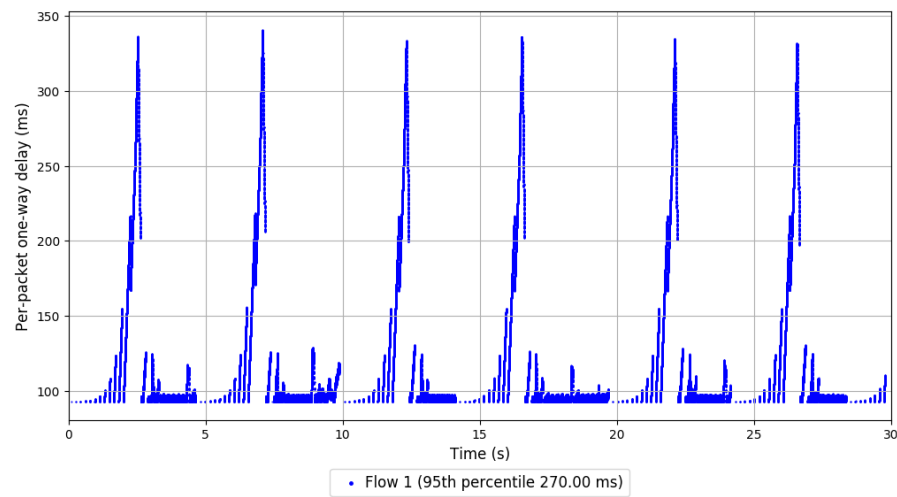
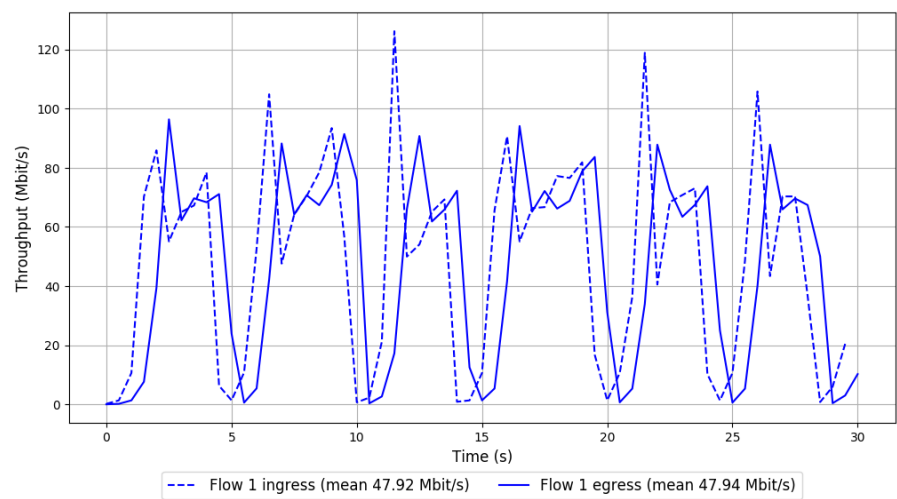
-- Flow 1:

Average throughput: 47.94 Mbit/s

95th percentile per-packet one-way delay: 269.995 ms

Loss rate: 0.54%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-03-19 10:36:24

End at: 2019-03-19 10:36:54

Local clock offset: -6.096 ms

Remote clock offset: 0.789 ms

Below is generated by plot.py at 2019-03-19 10:53:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.11 Mbit/s

95th percentile per-packet one-way delay: 280.259 ms

Loss rate: 0.90%

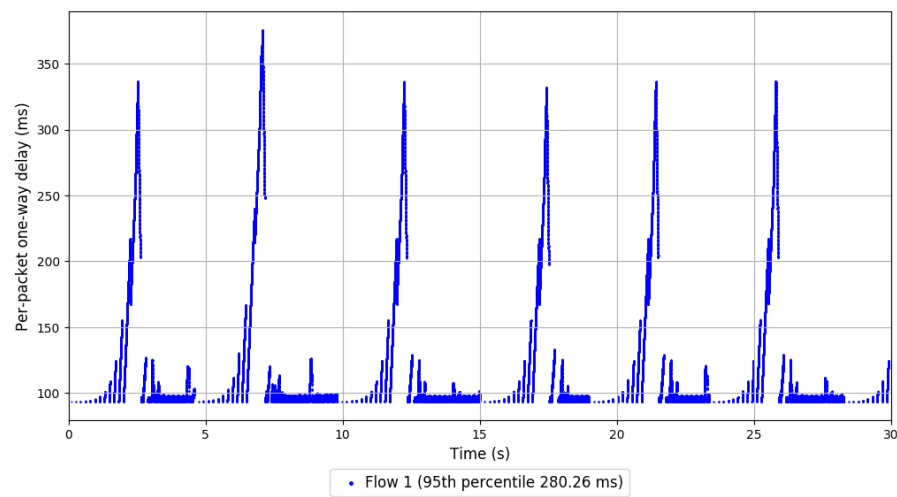
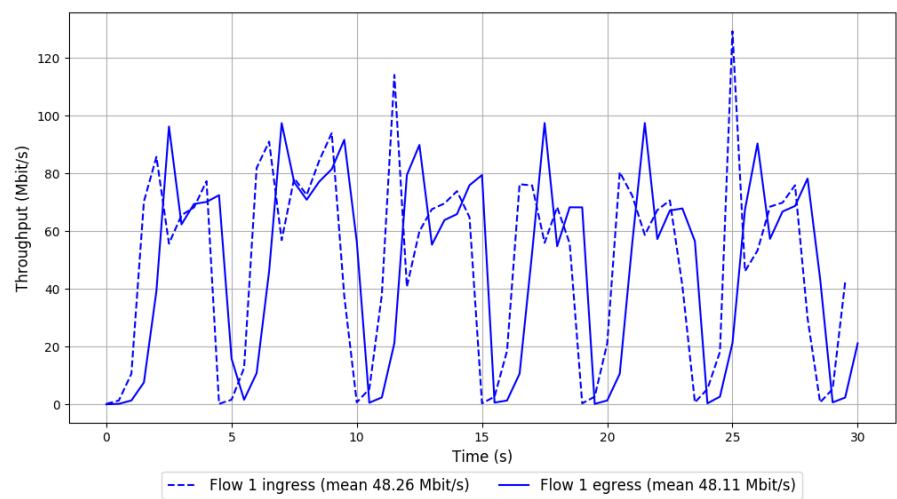
-- Flow 1:

Average throughput: 48.11 Mbit/s

95th percentile per-packet one-way delay: 280.259 ms

Loss rate: 0.90%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-03-19 08:39:34

End at: 2019-03-19 08:40:04

Local clock offset: -8.382 ms

Remote clock offset: 4.713 ms

Below is generated by plot.py at 2019-03-19 10:54:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.47 Mbit/s

95th percentile per-packet one-way delay: 101.943 ms

Loss rate: 0.75%

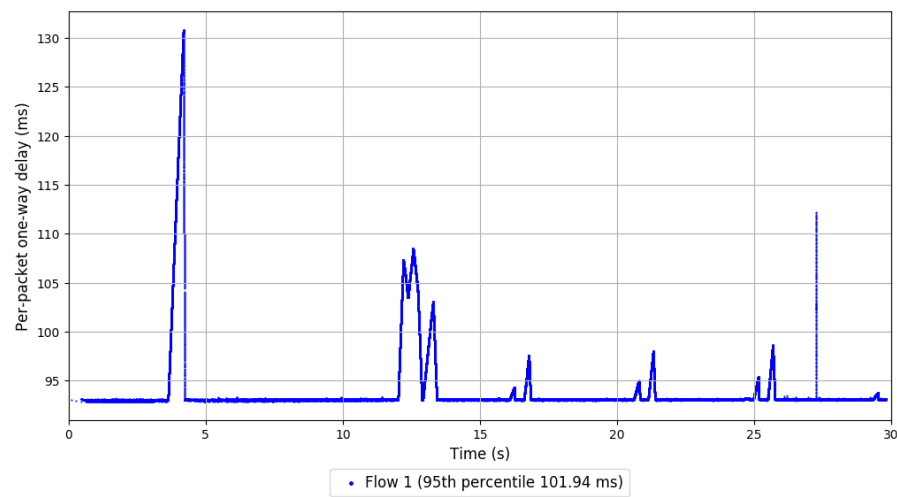
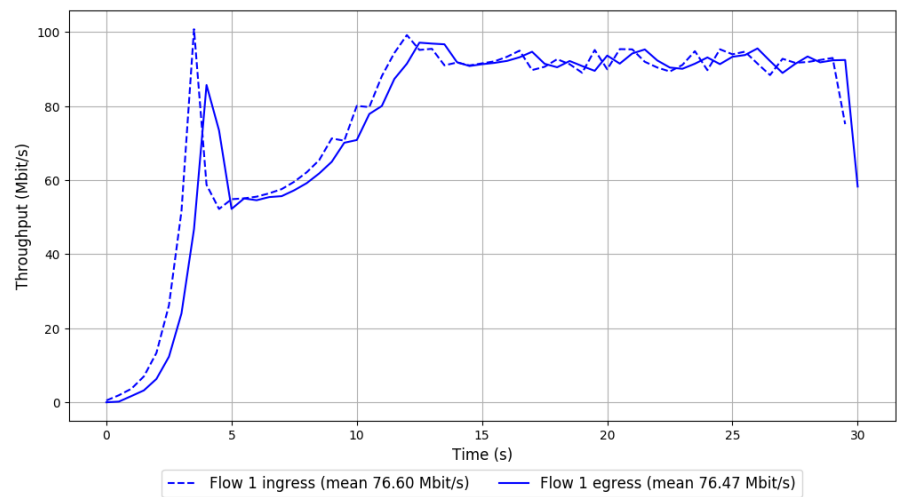
-- Flow 1:

Average throughput: 76.47 Mbit/s

95th percentile per-packet one-way delay: 101.943 ms

Loss rate: 0.75%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-03-19 09:04:35

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

Local clock offset: -8.995 ms

Remote clock offset: 4.15 ms

Below is generated by plot.py at 2019-03-19 10:54:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.79 Mbit/s

95th percentile per-packet one-way delay: 99.880 ms

Loss rate: 0.71%

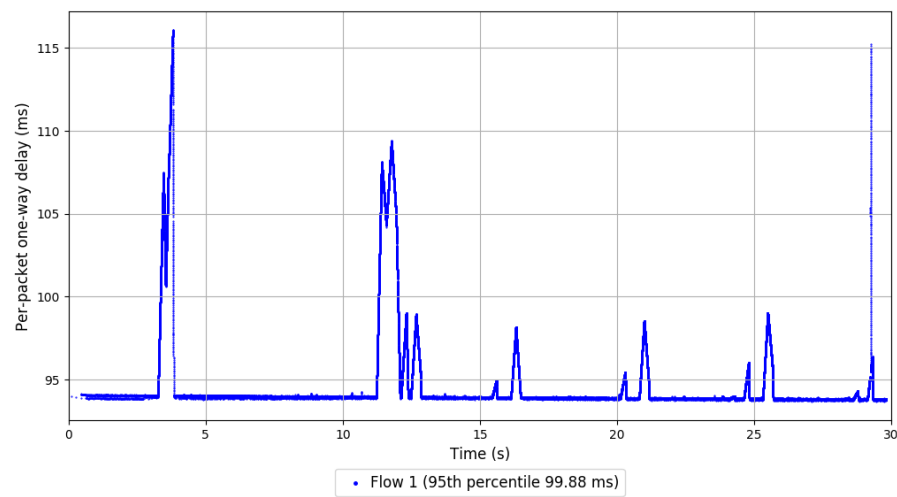
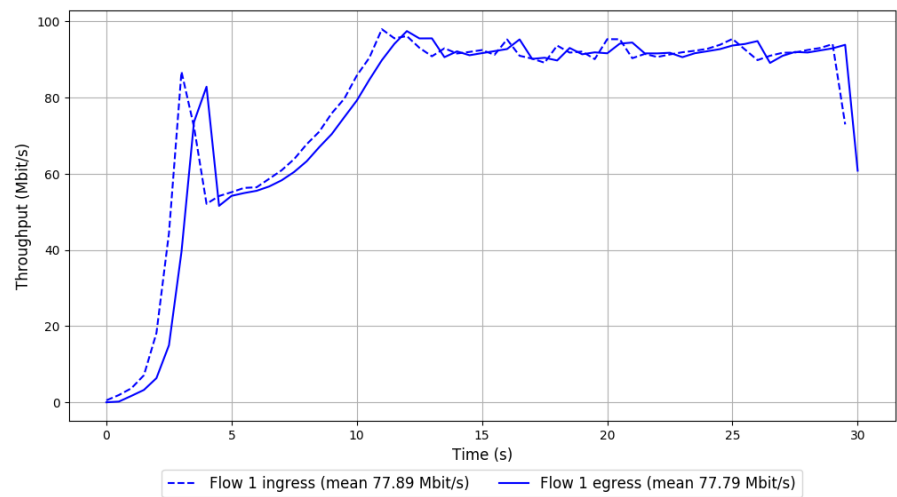
-- Flow 1:

Average throughput: 77.79 Mbit/s

95th percentile per-packet one-way delay: 99.880 ms

Loss rate: 0.71%

Run 2: Report of PCC-Vivace — Data Link

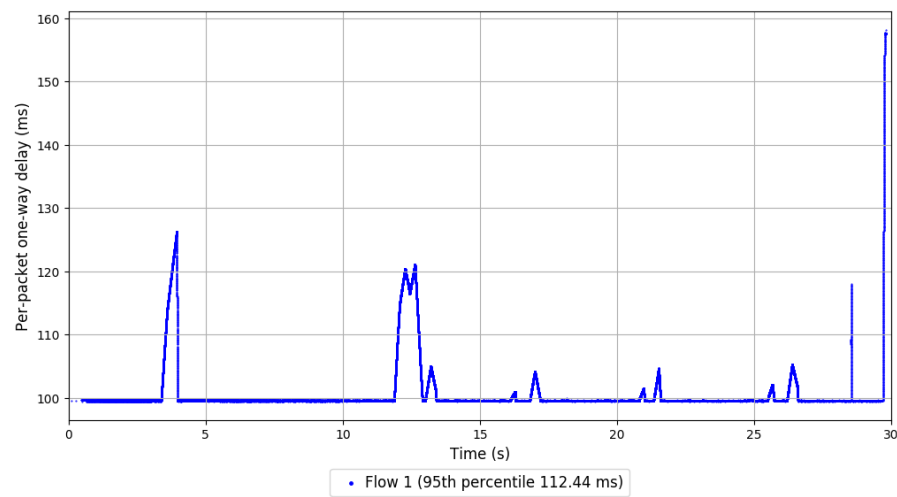
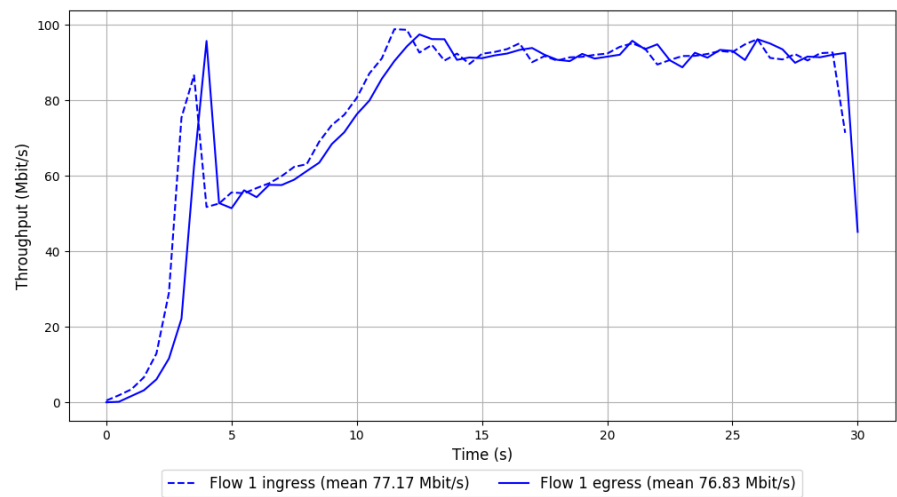


Run 3: Statistics of PCC-Vivace

Start at: 2019-03-19 09:29:38
End at: 2019-03-19 09:30:08
Local clock offset: -7.985 ms
Remote clock offset: -0.949 ms

Below is generated by plot.py at 2019-03-19 10:54:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.83 Mbit/s
95th percentile per-packet one-way delay: 112.445 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 76.83 Mbit/s
95th percentile per-packet one-way delay: 112.445 ms
Loss rate: 1.03%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-03-19 09:54:39

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

Local clock offset: -7.013 ms

Remote clock offset: 4.519 ms

Below is generated by plot.py at 2019-03-19 10:54:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.98 Mbit/s

95th percentile per-packet one-way delay: 121.815 ms

Loss rate: 0.75%

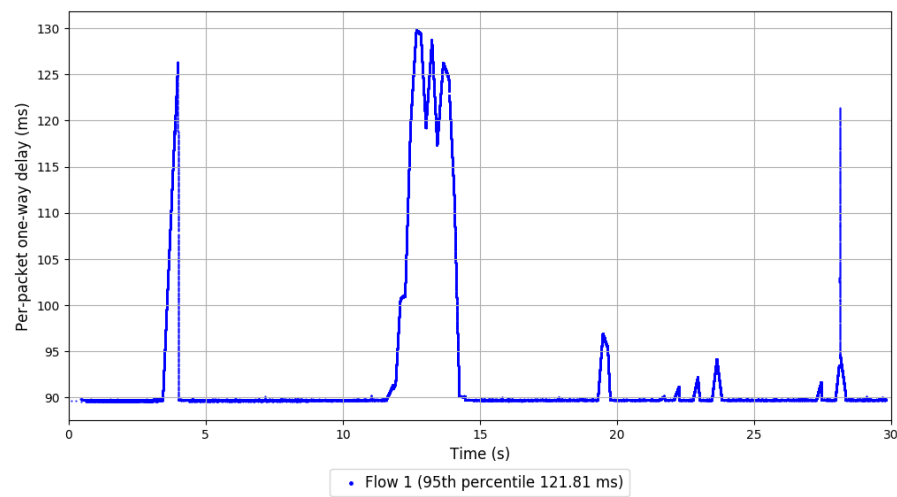
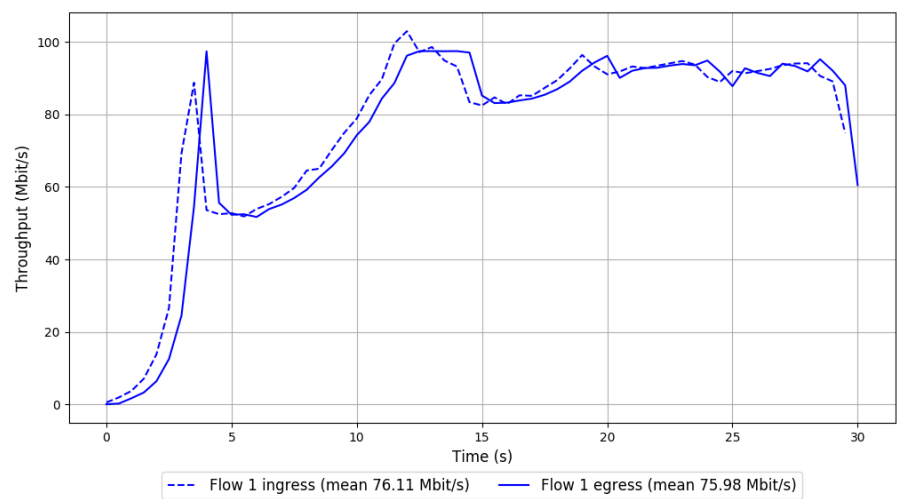
-- Flow 1:

Average throughput: 75.98 Mbit/s

95th percentile per-packet one-way delay: 121.815 ms

Loss rate: 0.75%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

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

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

Local clock offset: -6.753 ms

Remote clock offset: 3.415 ms

Below is generated by plot.py at 2019-03-19 10:54:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.72 Mbit/s

95th percentile per-packet one-way delay: 125.454 ms

Loss rate: 0.74%

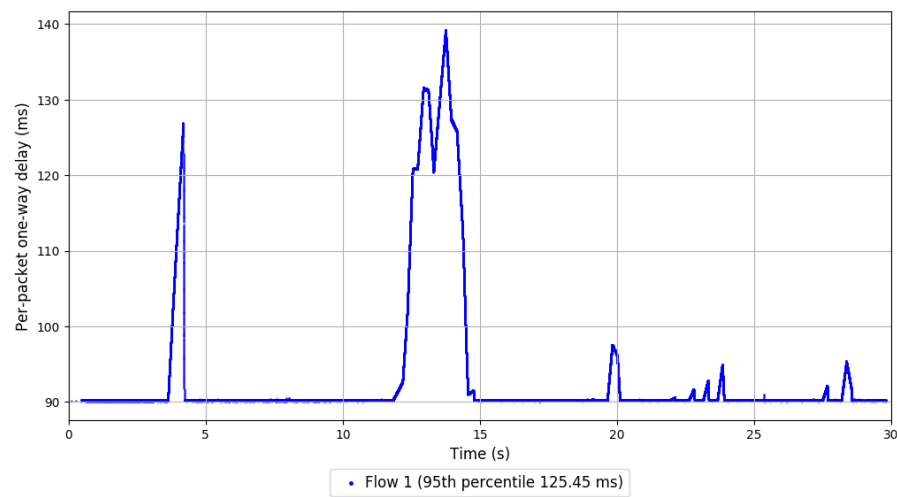
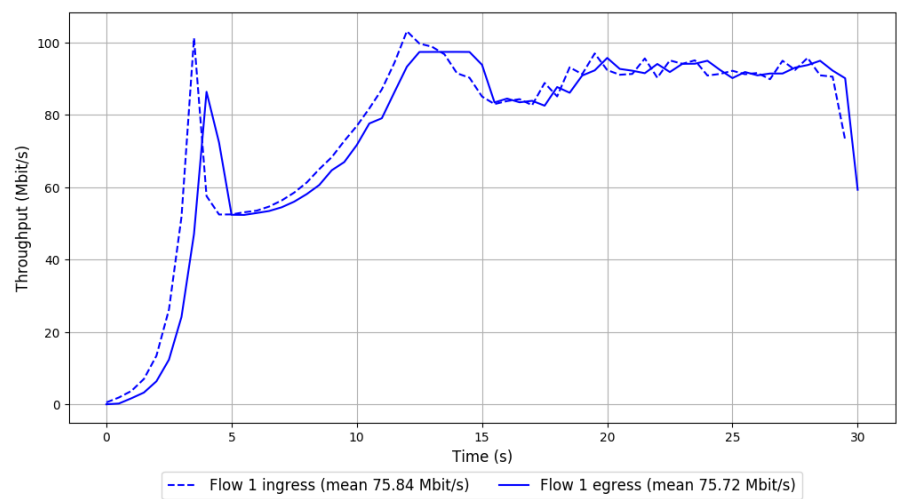
-- Flow 1:

Average throughput: 75.72 Mbit/s

95th percentile per-packet one-way delay: 125.454 ms

Loss rate: 0.74%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-03-19 08:44:18

End at: 2019-03-19 08:44:48

Local clock offset: -8.001 ms

Remote clock offset: 3.638 ms

Below is generated by plot.py at 2019-03-19 10:54:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 95.524 ms

Loss rate: 0.25%

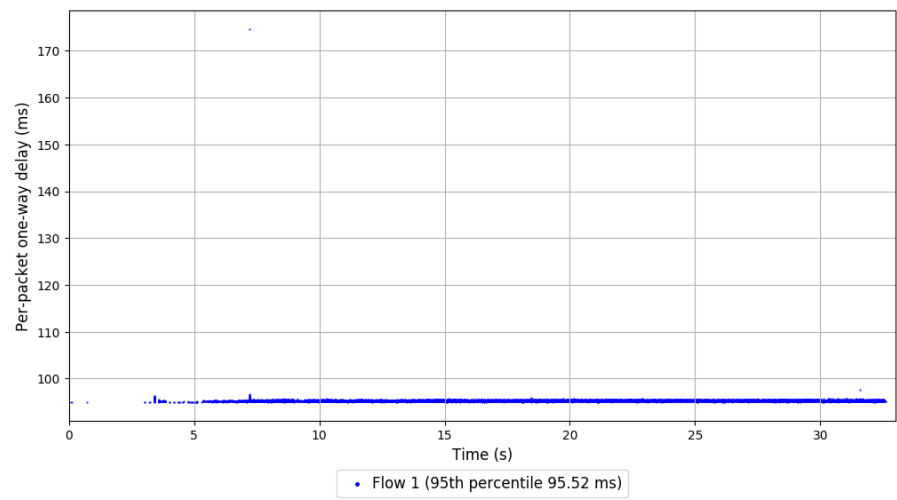
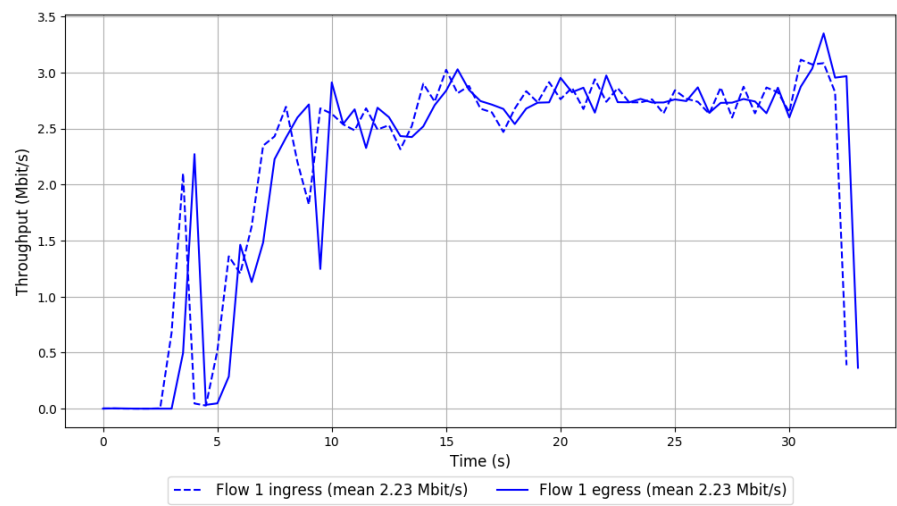
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 95.524 ms

Loss rate: 0.25%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

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

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

Local clock offset: -8.354 ms

Remote clock offset: 1.826 ms

Below is generated by plot.py at 2019-03-19 10:54:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 95.018 ms

Loss rate: 0.31%

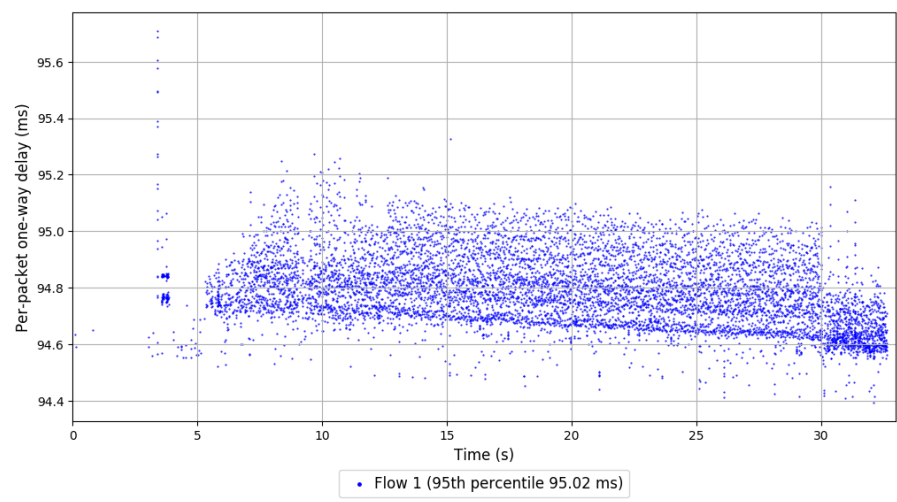
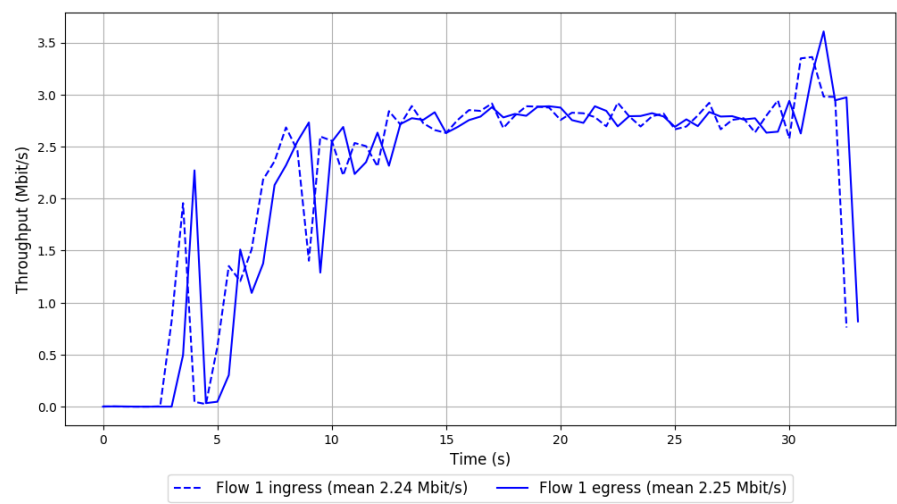
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 95.018 ms

Loss rate: 0.31%

Run 2: Report of WebRTC media — Data Link

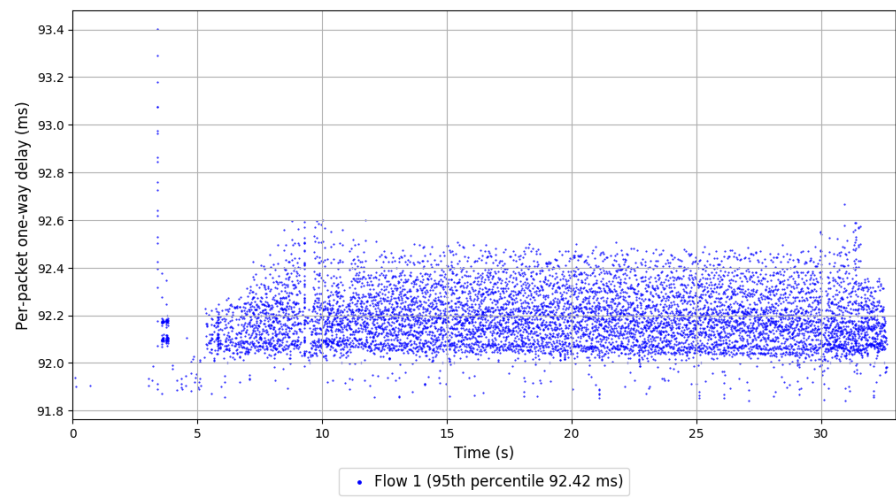
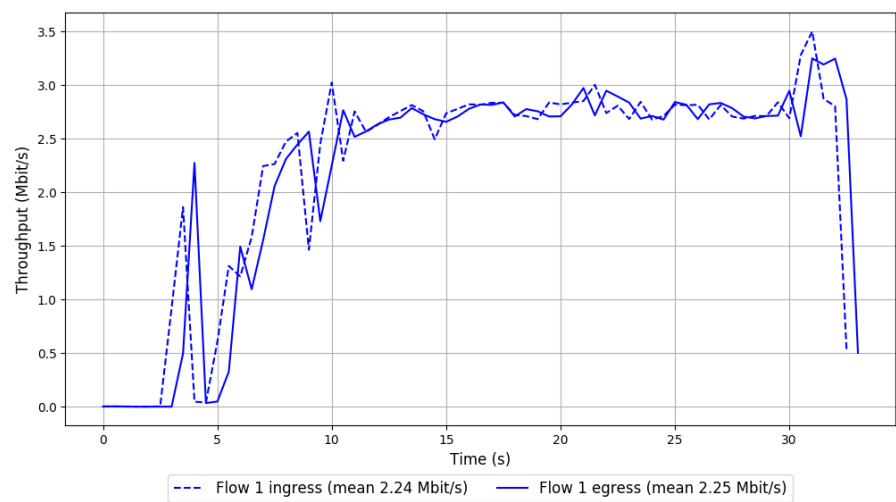


Run 3: Statistics of WebRTC media

Start at: 2019-03-19 09:34:21
End at: 2019-03-19 09:34:51
Local clock offset: -7.883 ms
Remote clock offset: -0.089 ms

Below is generated by plot.py at 2019-03-19 10:54:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 92.419 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 92.419 ms
Loss rate: 0.31%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

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

End at: 2019-03-19 09:59:52

Local clock offset: -7.059 ms

Remote clock offset: 4.636 ms

Below is generated by plot.py at 2019-03-19 10:54:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 90.277 ms

Loss rate: 0.30%

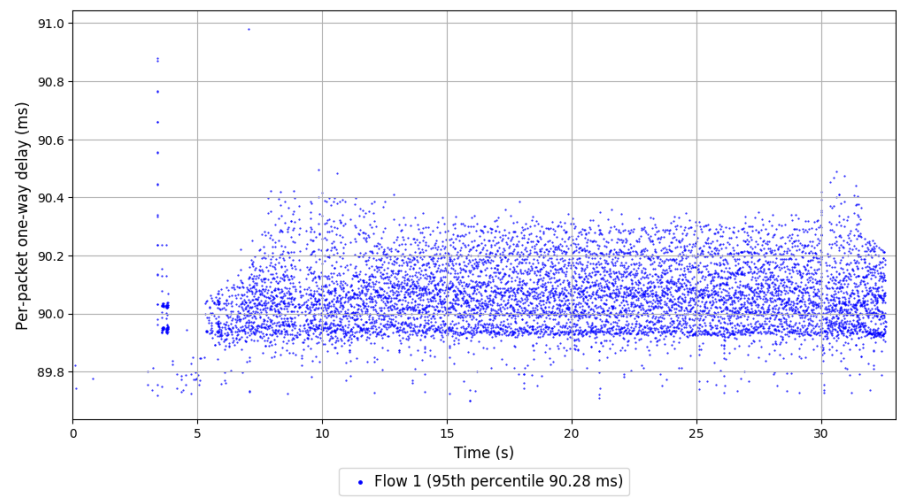
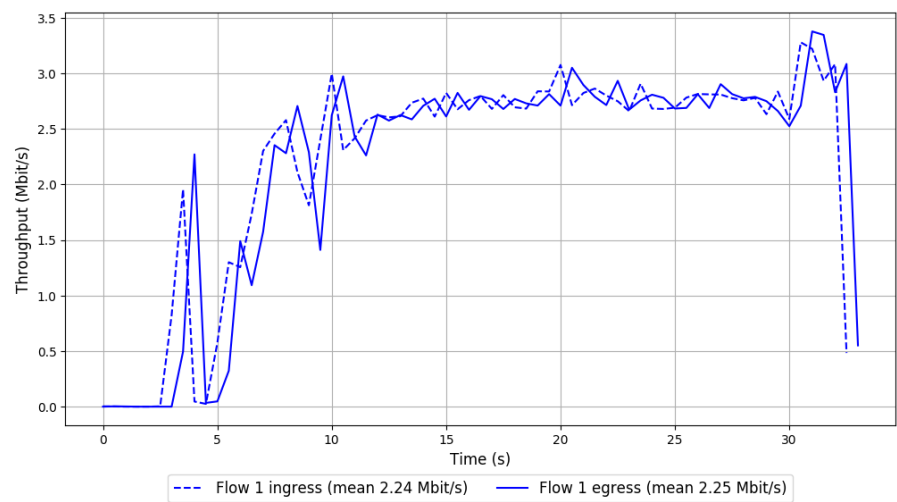
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 90.277 ms

Loss rate: 0.30%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-03-19 10:24:23

End at: 2019-03-19 10:24:53

Local clock offset: -6.514 ms

Remote clock offset: 0.775 ms

Below is generated by plot.py at 2019-03-19 10:54:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 93.055 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 93.055 ms

Loss rate: 0.29%

Run 5: Report of WebRTC media — Data Link

