

Pantheon Report

Generated at 2019-03-09 09:54:51 (UTC).

Data path: Mexico on **em1** (*remote*) → AWS California 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 **time.stanford.edu** and have been applied to correct the timestamps in logs.

System info:

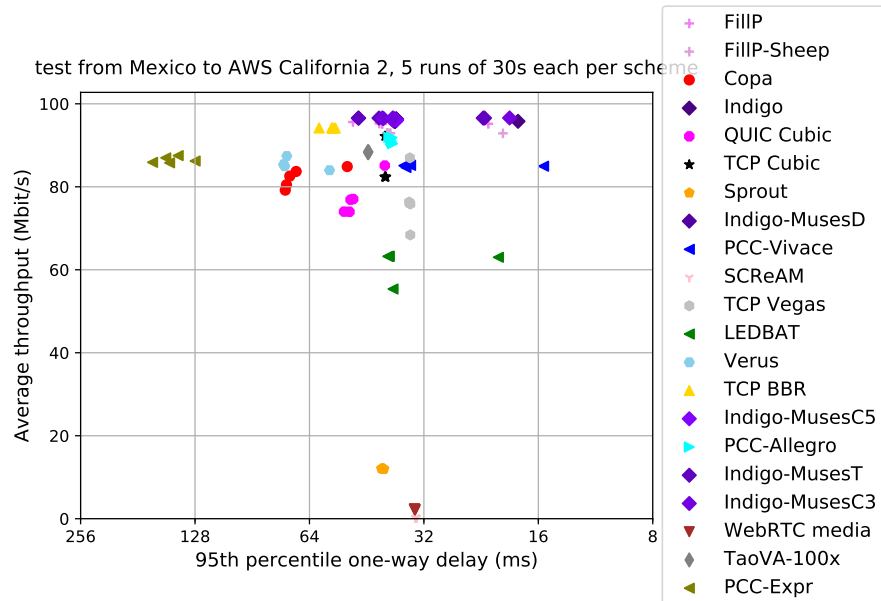
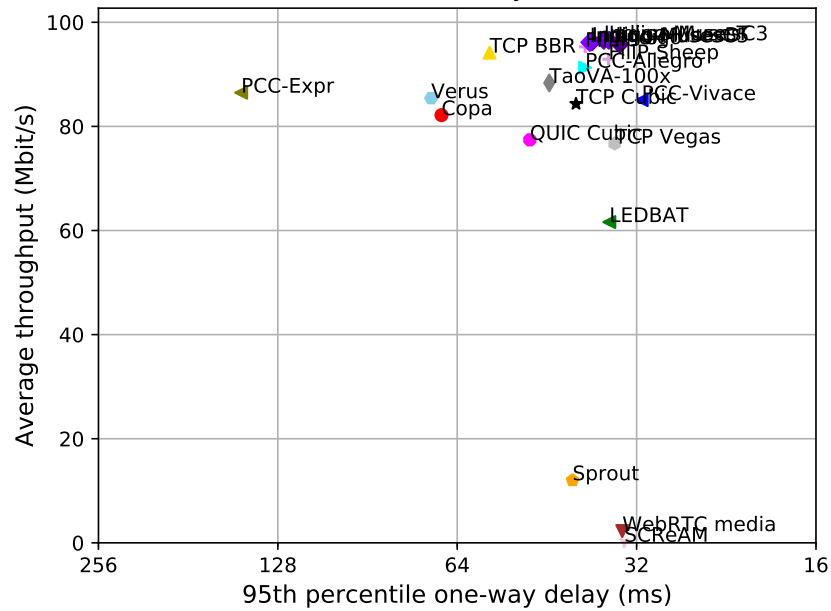
```
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
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-quic @ 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 Mexico to AWS California 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	94.17	56.46	0.55
Copa	5	82.16	68.01	0.25
TCP Cubic	5	84.34	40.44	0.29
FillP	5	95.28	39.04	0.22
FillP-Sheep	5	92.91	35.68	0.23
Indigo	5	95.81	34.14	0.23
Indigo-MusesC3	5	96.54	35.63	0.24
Indigo-MusesC5	5	96.15	38.34	0.24
Indigo-MusesD	5	96.23	38.04	0.24
Indigo-MusesT	5	96.56	36.32	0.99
LEDBAT	5	61.62	35.56	0.23
PCC-Allegro	5	91.28	39.04	0.24
PCC-Expr	5	86.47	147.50	0.31
QUIC Cubic	5	77.41	48.34	0.34
SCReAM	5	0.21	33.57	0.23
Sprout	5	12.03	40.99	0.21
TaoVA-100x	5	88.35	44.85	0.21
TCP Vegas	5	76.71	34.84	0.29
Verus	5	85.42	70.79	0.51
PCC-Vivace	5	85.05	31.38	0.23
WebRTC media	5	2.26	33.83	0.25

Run 1: Statistics of TCP BBR

Start at: 2019-03-09 07:50:15

End at: 2019-03-09 07:50:45

Local clock offset: 0.034 ms

Remote clock offset: -1.622 ms

Below is generated by plot.py at 2019-03-09 09:41:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 60.375 ms

Loss rate: 0.64%

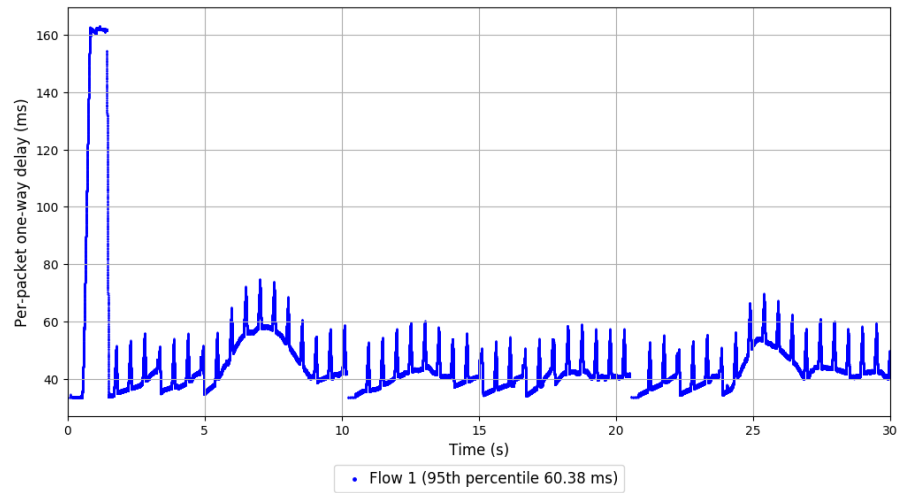
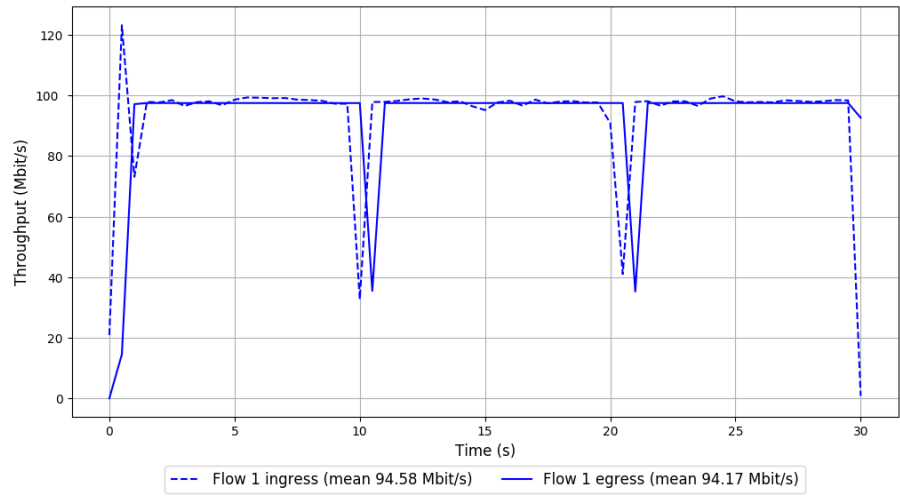
-- Flow 1:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 60.375 ms

Loss rate: 0.64%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-03-09 08:14:57

End at: 2019-03-09 08:15:27

Local clock offset: 0.072 ms

Remote clock offset: -0.055 ms

Below is generated by plot.py at 2019-03-09 09:41:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 55.841 ms

Loss rate: 0.59%

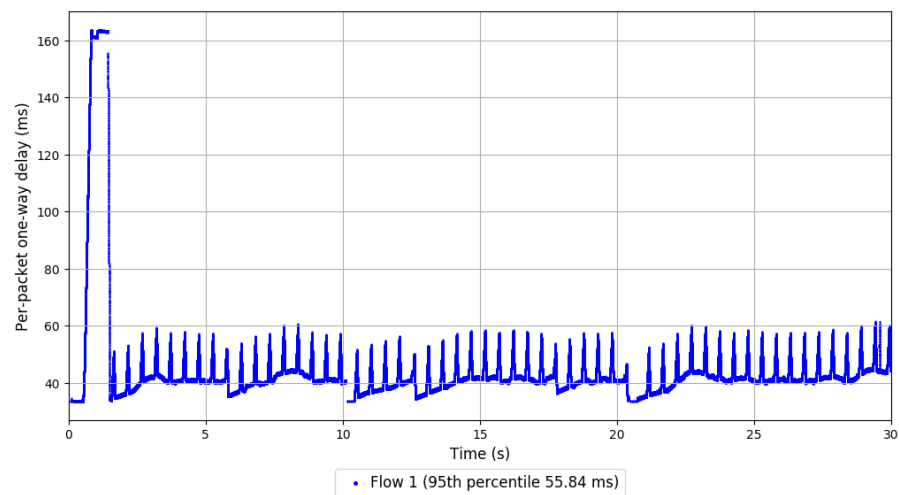
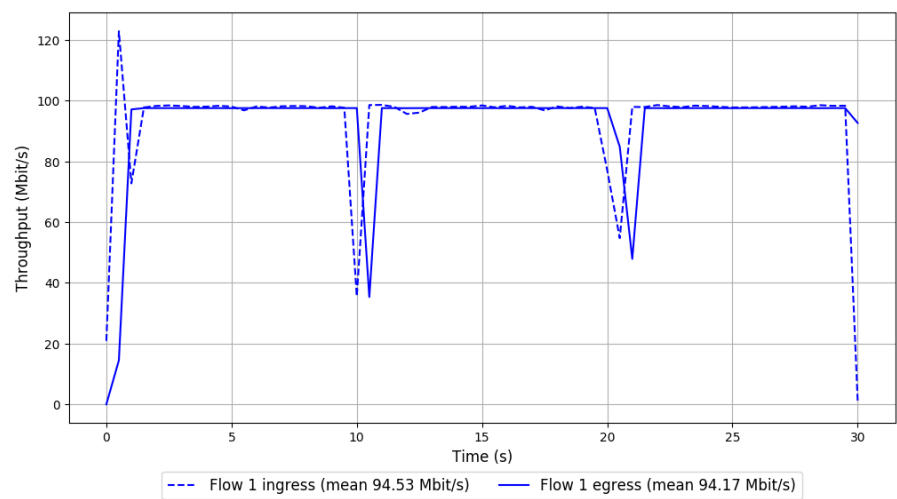
-- Flow 1:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 55.841 ms

Loss rate: 0.59%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-03-09 08:39:31

End at: 2019-03-09 08:40:01

Local clock offset: 0.077 ms

Remote clock offset: 0.979 ms

Below is generated by plot.py at 2019-03-09 09:41:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 55.856 ms

Loss rate: 0.51%

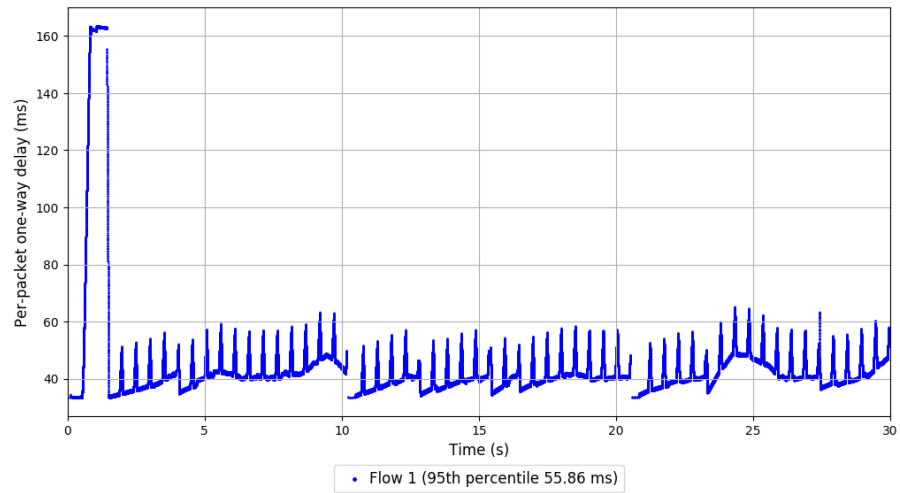
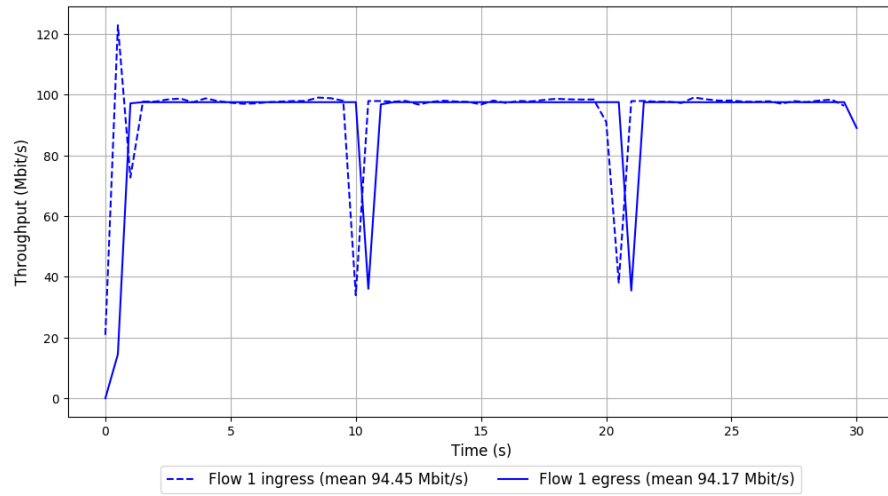
-- Flow 1:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 55.856 ms

Loss rate: 0.51%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

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

End at: 2019-03-09 09:04:33

Local clock offset: 0.179 ms

Remote clock offset: 1.526 ms

Below is generated by plot.py at 2019-03-09 09:41:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 55.511 ms

Loss rate: 0.56%

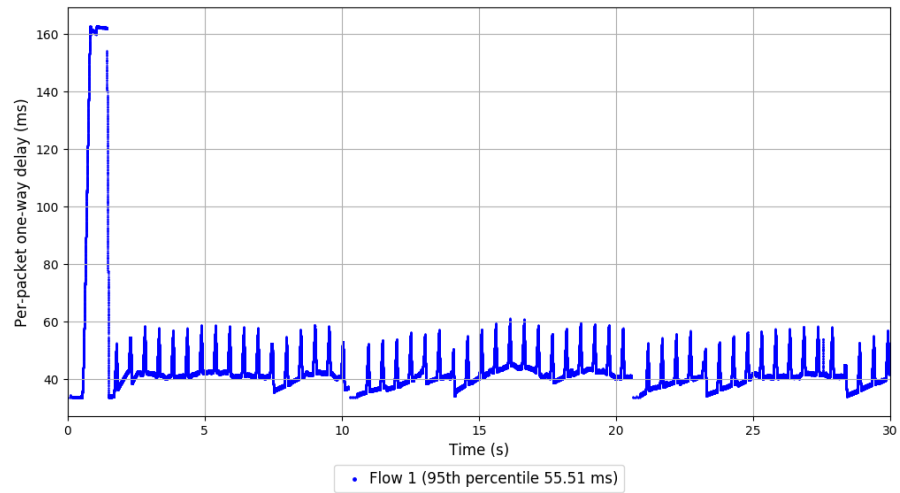
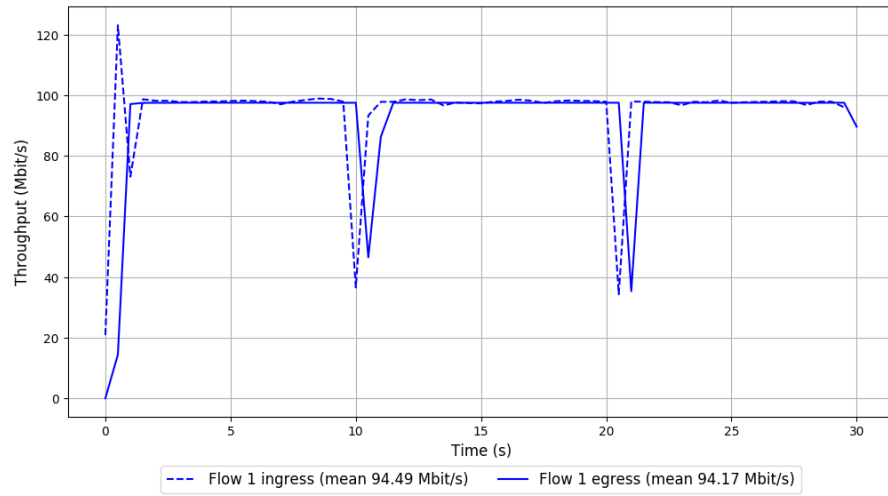
-- Flow 1:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 55.511 ms

Loss rate: 0.56%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

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

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

Local clock offset: 0.307 ms

Remote clock offset: 1.822 ms

Below is generated by plot.py at 2019-03-09 09:41:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.16 Mbit/s

95th percentile per-packet one-way delay: 54.739 ms

Loss rate: 0.44%

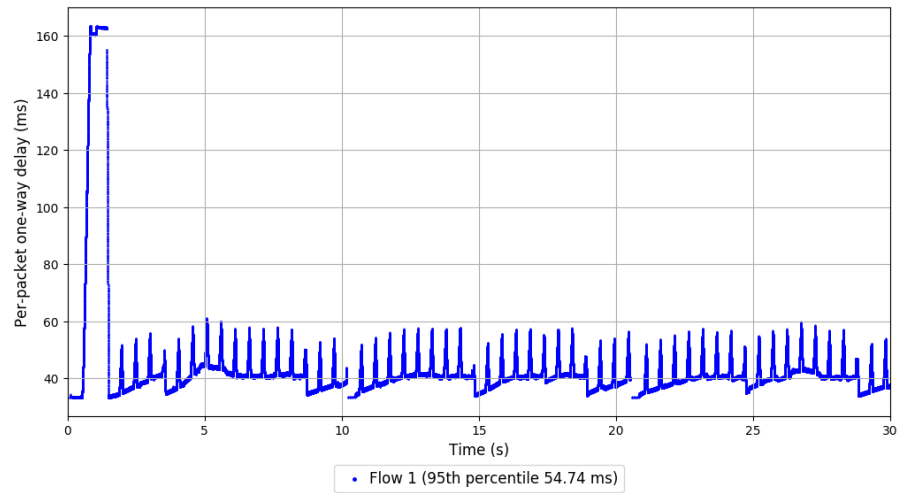
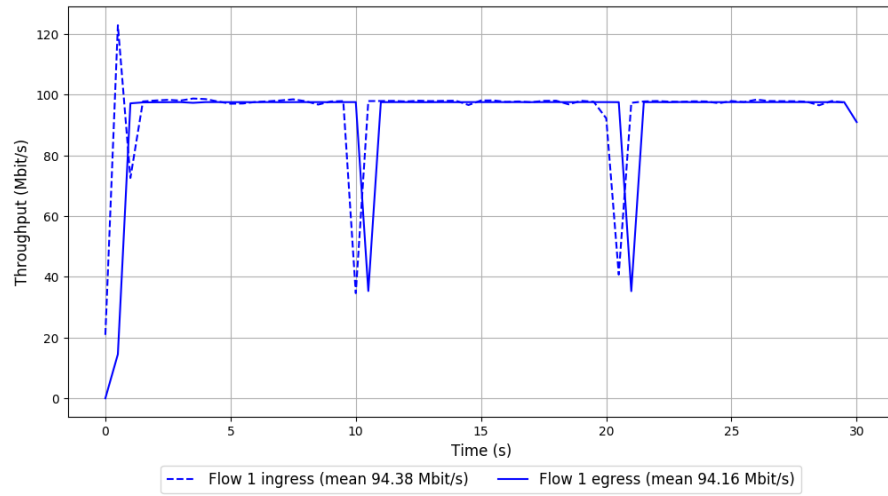
-- Flow 1:

Average throughput: 94.16 Mbit/s

95th percentile per-packet one-way delay: 54.739 ms

Loss rate: 0.44%

Run 5: Report of TCP BBR — Data Link

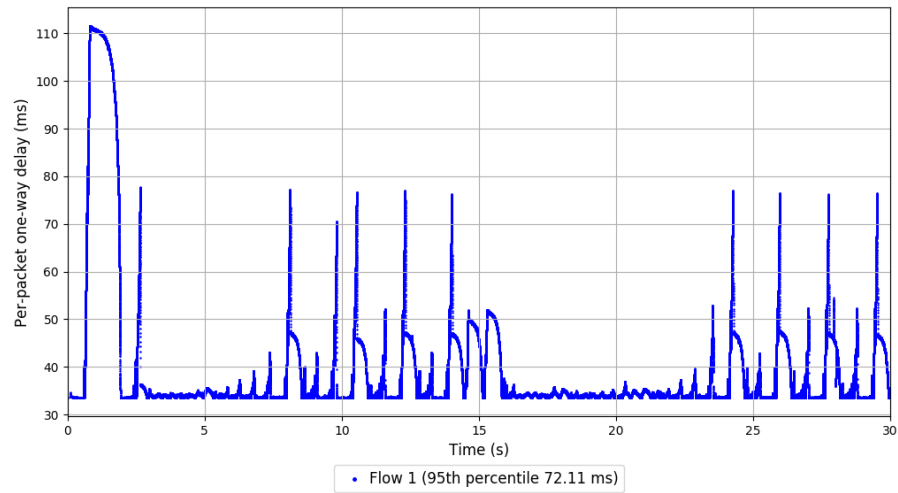
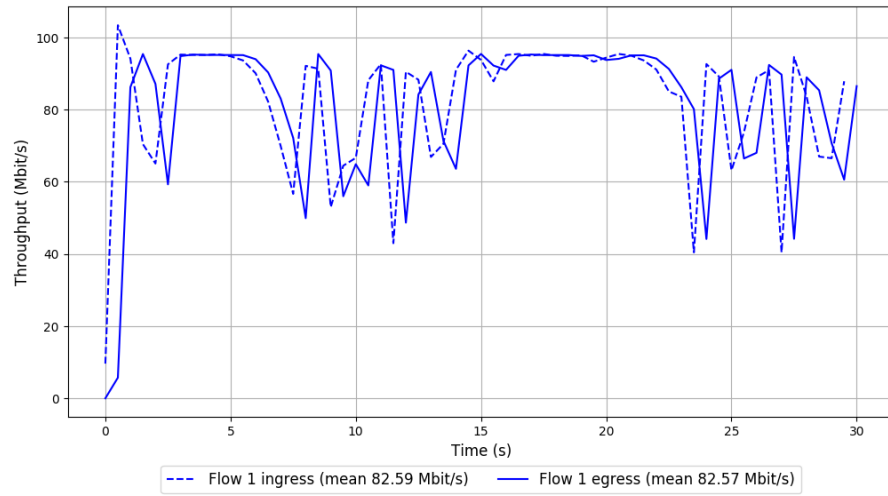


Run 1: Statistics of Copa

Start at: 2019-03-09 07:44:05
End at: 2019-03-09 07:44:35
Local clock offset: 0.005 ms
Remote clock offset: -2.105 ms

Below is generated by plot.py at 2019-03-09 09:42:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.57 Mbit/s
95th percentile per-packet one-way delay: 72.111 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 82.57 Mbit/s
95th percentile per-packet one-way delay: 72.111 ms
Loss rate: 0.24%

Run 1: Report of Copa — Data Link

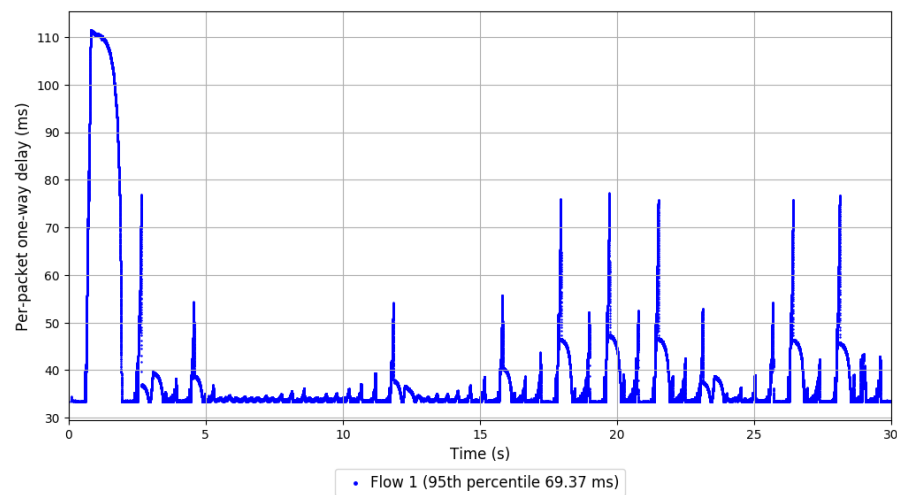
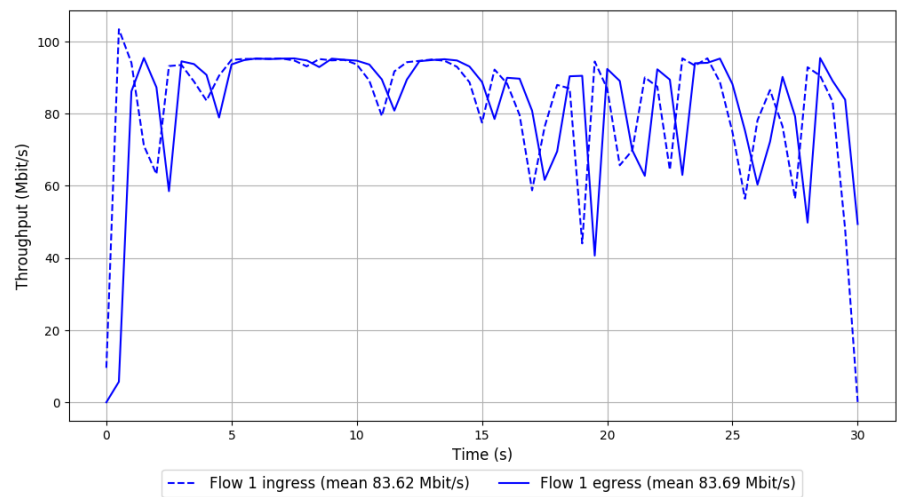


Run 2: Statistics of Copa

Start at: 2019-03-09 08:09:03
End at: 2019-03-09 08:09:33
Local clock offset: 0.077 ms
Remote clock offset: -0.456 ms

Below is generated by plot.py at 2019-03-09 09:42:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 83.69 Mbit/s
95th percentile per-packet one-way delay: 69.368 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 83.69 Mbit/s
95th percentile per-packet one-way delay: 69.368 ms
Loss rate: 0.12%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-03-09 08:33:36

End at: 2019-03-09 08:34:06

Local clock offset: 0.089 ms

Remote clock offset: 0.931 ms

Below is generated by plot.py at 2019-03-09 09:42:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.48 Mbit/s

95th percentile per-packet one-way delay: 73.572 ms

Loss rate: 0.29%

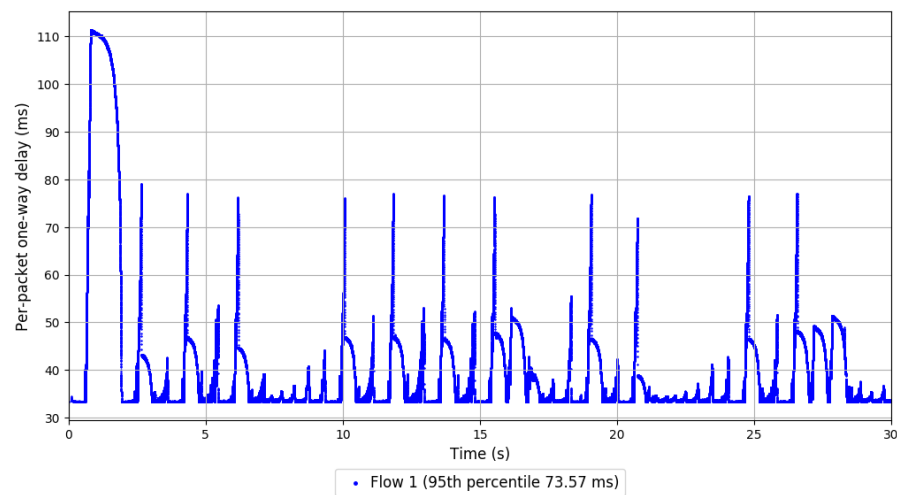
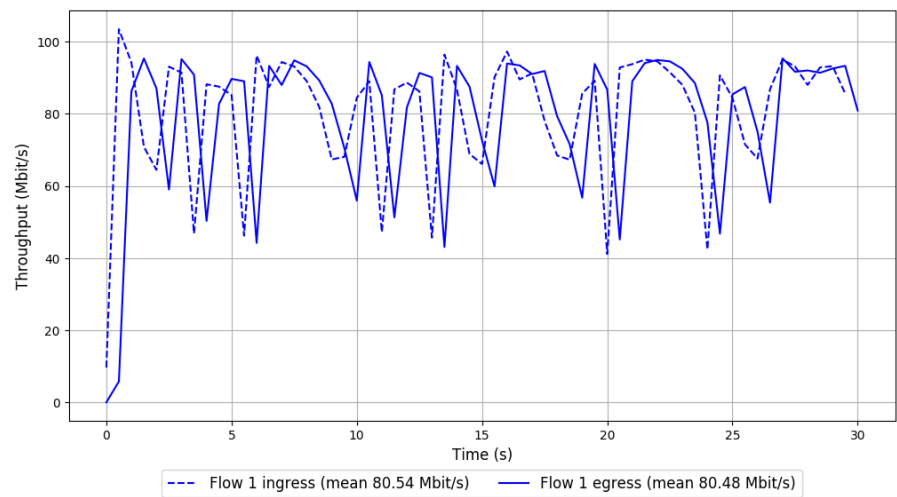
-- Flow 1:

Average throughput: 80.48 Mbit/s

95th percentile per-packet one-way delay: 73.572 ms

Loss rate: 0.29%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-03-09 08:58:09

End at: 2019-03-09 08:58:39

Local clock offset: 0.165 ms

Remote clock offset: 1.529 ms

Below is generated by plot.py at 2019-03-09 09:43:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.87 Mbit/s

95th percentile per-packet one-way delay: 50.909 ms

Loss rate: 0.29%

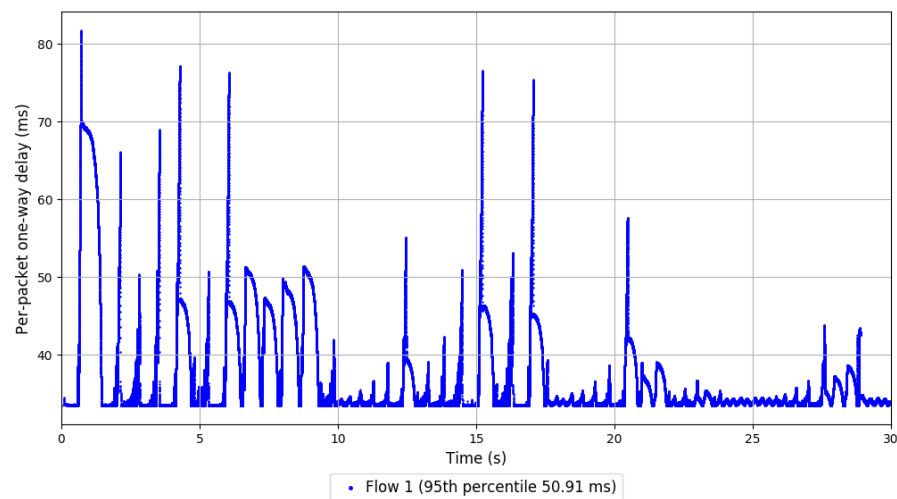
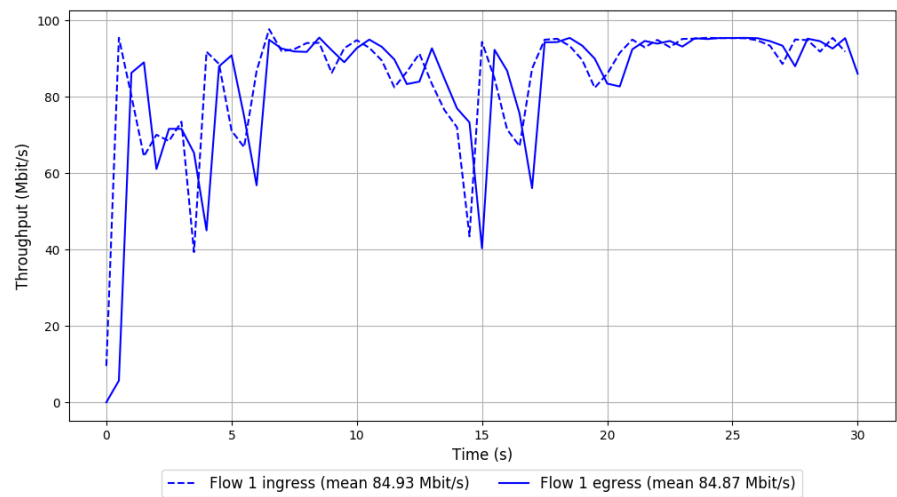
-- Flow 1:

Average throughput: 84.87 Mbit/s

95th percentile per-packet one-way delay: 50.909 ms

Loss rate: 0.29%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-03-09 09:22:41

End at: 2019-03-09 09:23:11

Local clock offset: 0.267 ms

Remote clock offset: 1.639 ms

Below is generated by plot.py at 2019-03-09 09:43:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.19 Mbit/s

95th percentile per-packet one-way delay: 74.104 ms

Loss rate: 0.31%

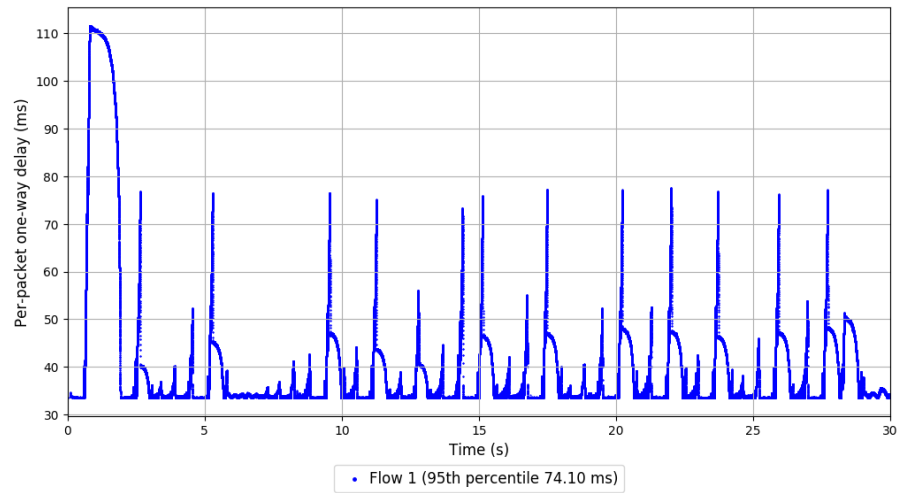
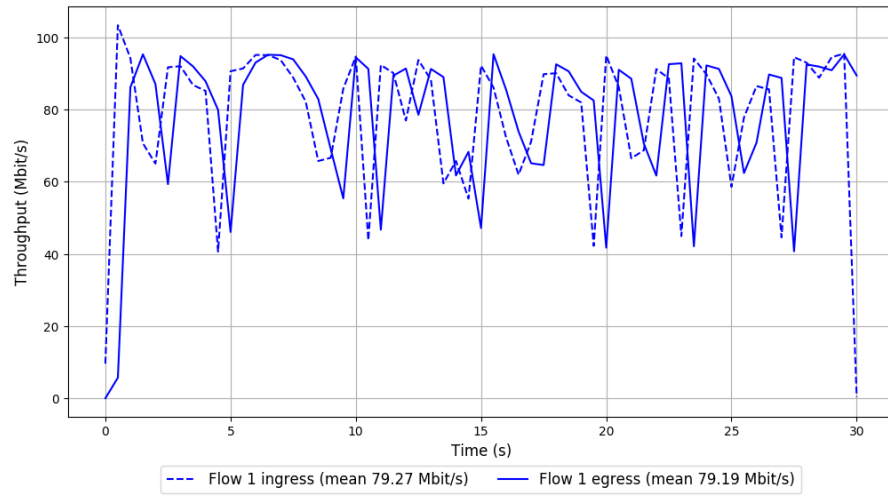
-- Flow 1:

Average throughput: 79.19 Mbit/s

95th percentile per-packet one-way delay: 74.104 ms

Loss rate: 0.31%

Run 5: Report of Copa — Data Link

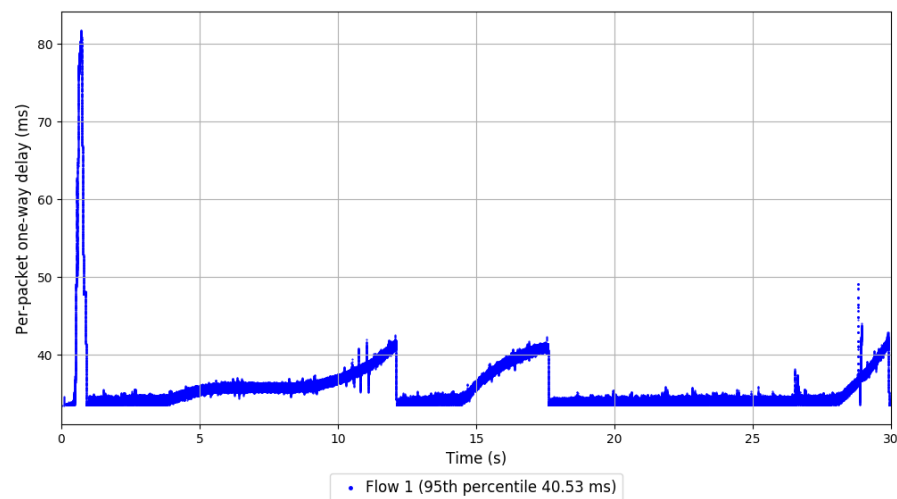
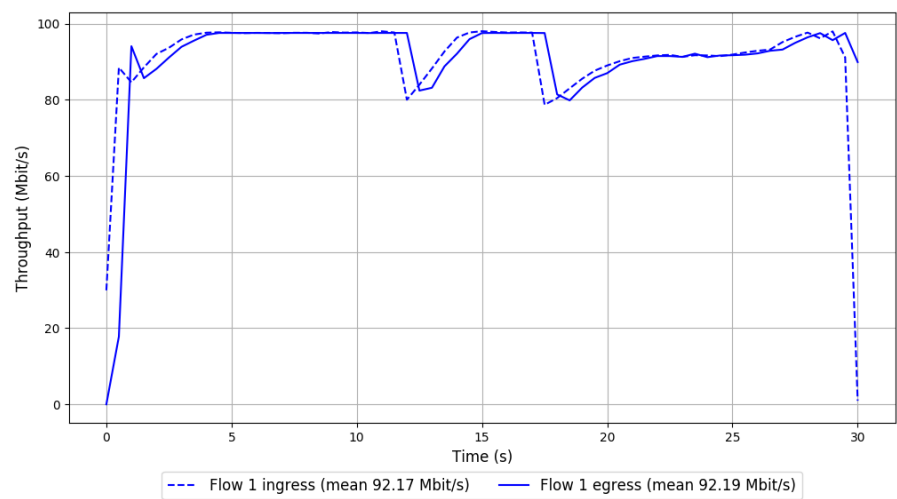


Run 1: Statistics of TCP Cubic

Start at: 2019-03-09 07:41:41
End at: 2019-03-09 07:42:11
Local clock offset: -0.016 ms
Remote clock offset: -2.075 ms

Below is generated by plot.py at 2019-03-09 09:43:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.19 Mbit/s
95th percentile per-packet one-way delay: 40.528 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 92.19 Mbit/s
95th percentile per-packet one-way delay: 40.528 ms
Loss rate: 0.18%

Run 1: Report of TCP Cubic — Data Link

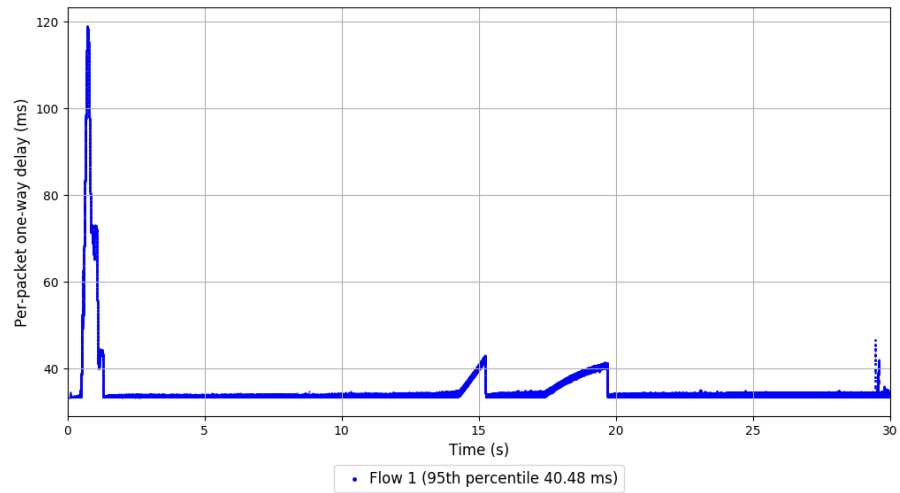
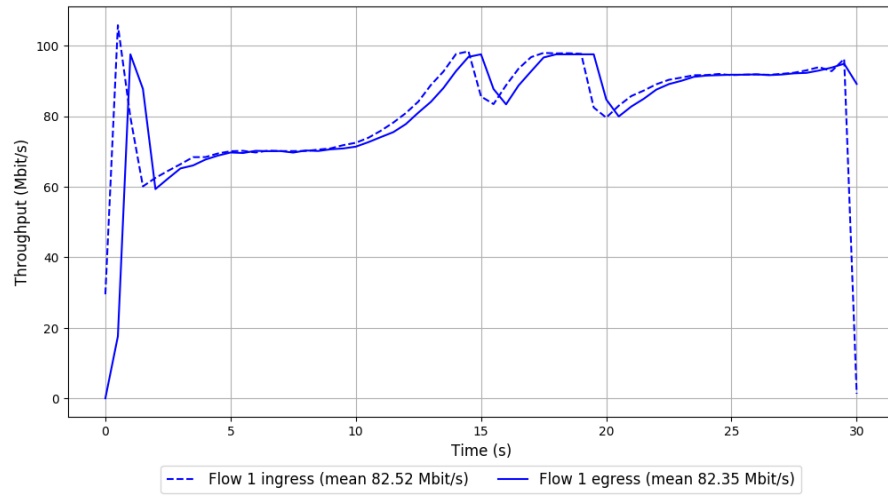


Run 2: Statistics of TCP Cubic

Start at: 2019-03-09 08:06:43
End at: 2019-03-09 08:07:13
Local clock offset: 0.078 ms
Remote clock offset: -0.552 ms

Below is generated by plot.py at 2019-03-09 09:43:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.35 Mbit/s
95th percentile per-packet one-way delay: 40.483 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 82.35 Mbit/s
95th percentile per-packet one-way delay: 40.483 ms
Loss rate: 0.43%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-03-09 08:31:15

End at: 2019-03-09 08:31:45

Local clock offset: 0.082 ms

Remote clock offset: 0.758 ms

Below is generated by plot.py at 2019-03-09 09:43:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.40 Mbit/s

95th percentile per-packet one-way delay: 40.356 ms

Loss rate: 0.30%

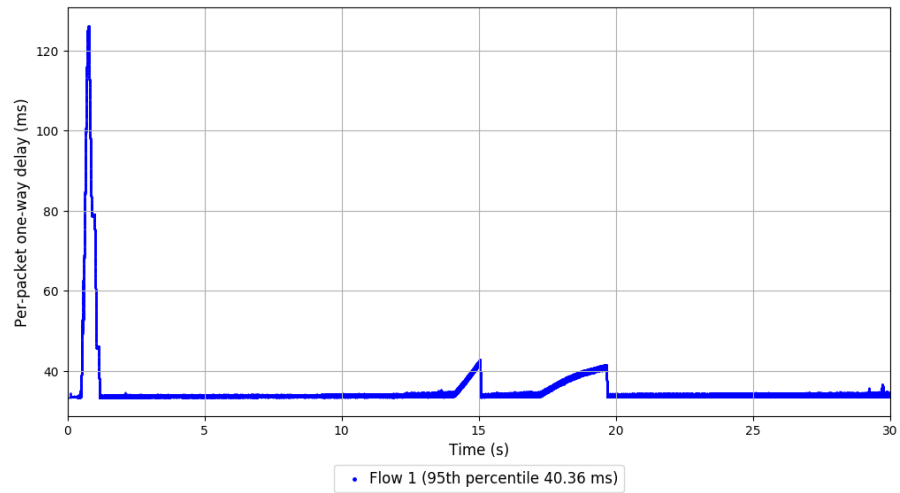
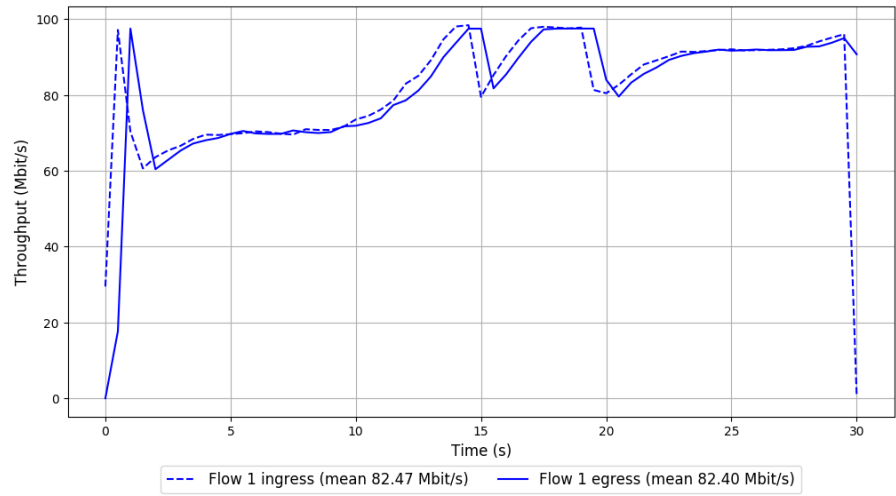
-- Flow 1:

Average throughput: 82.40 Mbit/s

95th percentile per-packet one-way delay: 40.356 ms

Loss rate: 0.30%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-03-09 08:55:49

End at: 2019-03-09 08:56:19

Local clock offset: 0.164 ms

Remote clock offset: 1.508 ms

Below is generated by plot.py at 2019-03-09 09:43:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.35 Mbit/s

95th percentile per-packet one-way delay: 40.279 ms

Loss rate: 0.26%

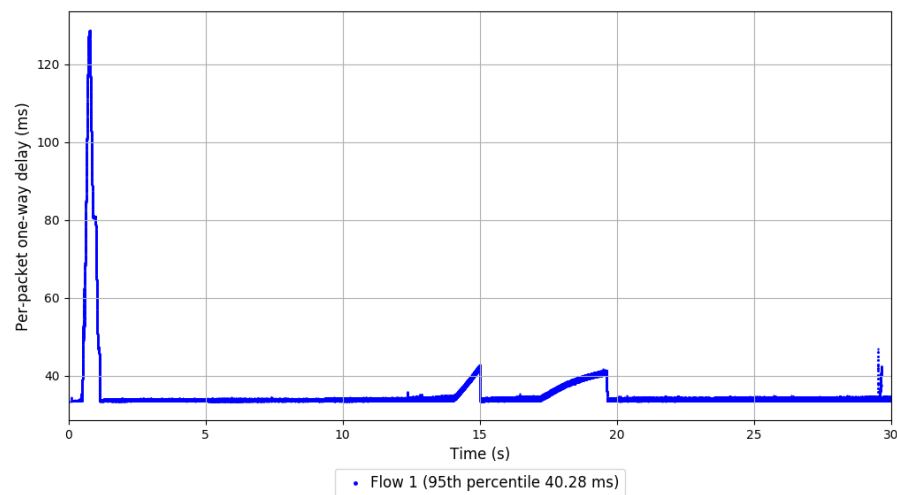
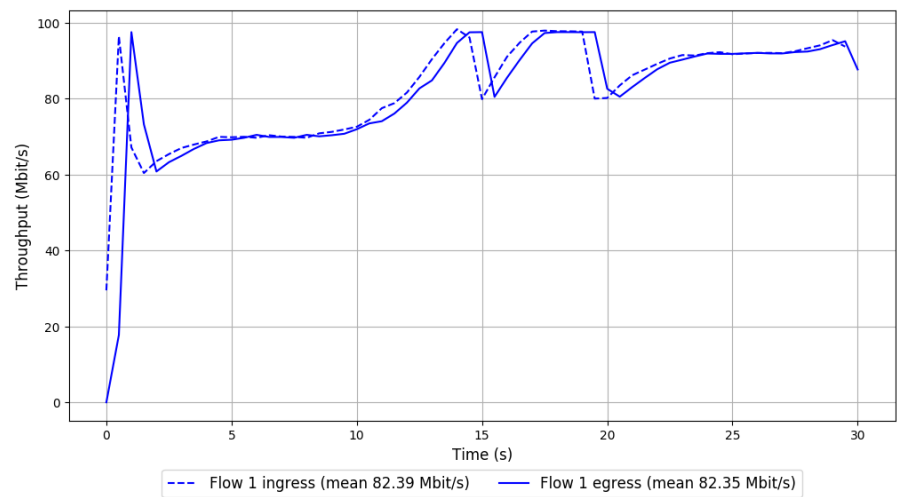
-- Flow 1:

Average throughput: 82.35 Mbit/s

95th percentile per-packet one-way delay: 40.279 ms

Loss rate: 0.26%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

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

End at: 2019-03-09 09:20:50

Local clock offset: 0.254 ms

Remote clock offset: 1.731 ms

Below is generated by plot.py at 2019-03-09 09:43:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.39 Mbit/s

95th percentile per-packet one-way delay: 40.566 ms

Loss rate: 0.26%

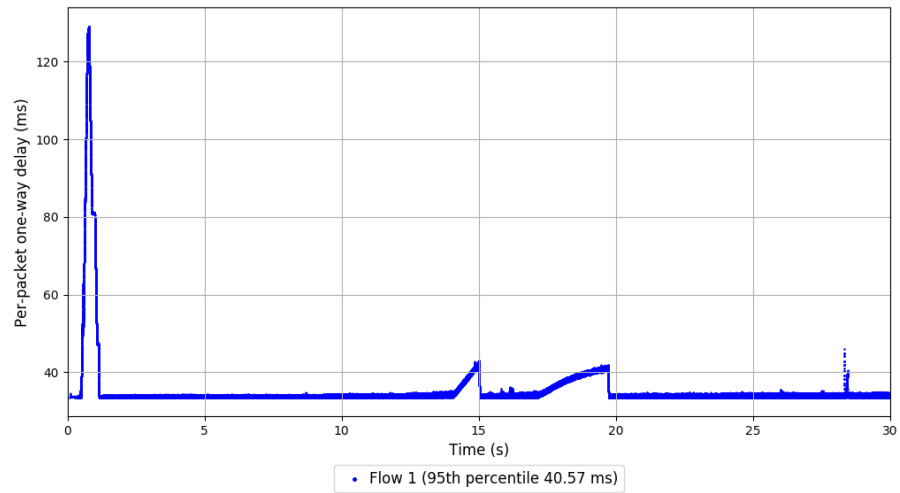
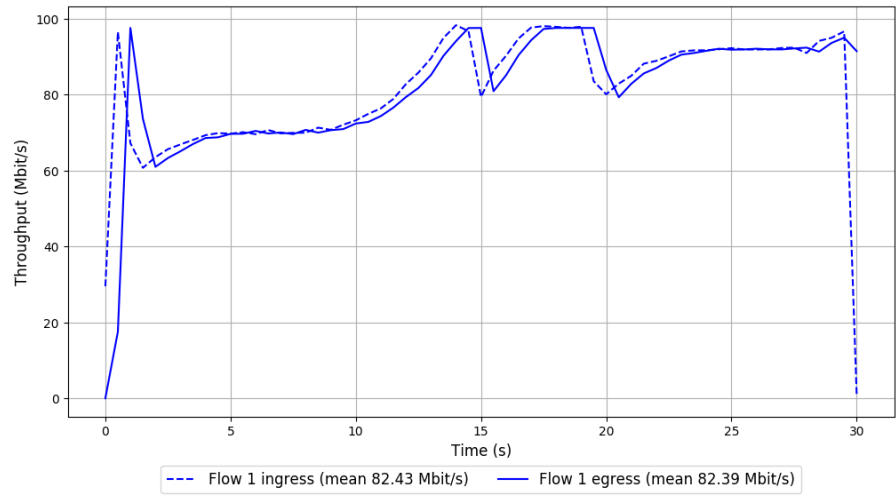
-- Flow 1:

Average throughput: 82.39 Mbit/s

95th percentile per-packet one-way delay: 40.566 ms

Loss rate: 0.26%

Run 5: Report of TCP Cubic — Data Link

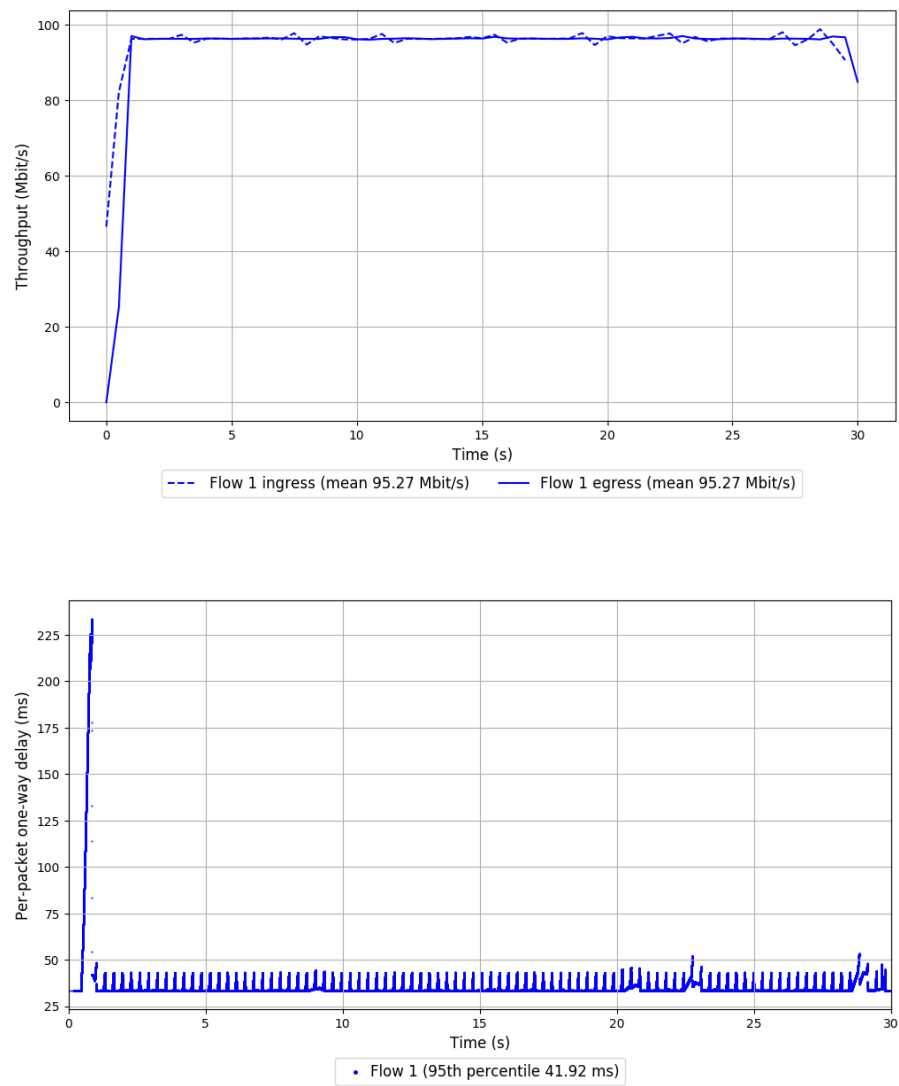


Run 1: Statistics of FillP

Start at: 2019-03-09 07:53:52
End at: 2019-03-09 07:54:22
Local clock offset: 0.051 ms
Remote clock offset: -1.375 ms

Below is generated by plot.py at 2019-03-09 09:43:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.27 Mbit/s
95th percentile per-packet one-way delay: 41.920 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 95.27 Mbit/s
95th percentile per-packet one-way delay: 41.920 ms
Loss rate: 0.22%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-03-09 08:18:29

End at: 2019-03-09 08:18:59

Local clock offset: 0.086 ms

Remote clock offset: 0.104 ms

Below is generated by plot.py at 2019-03-09 09:43:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.62 Mbit/s

95th percentile per-packet one-way delay: 49.183 ms

Loss rate: 0.24%

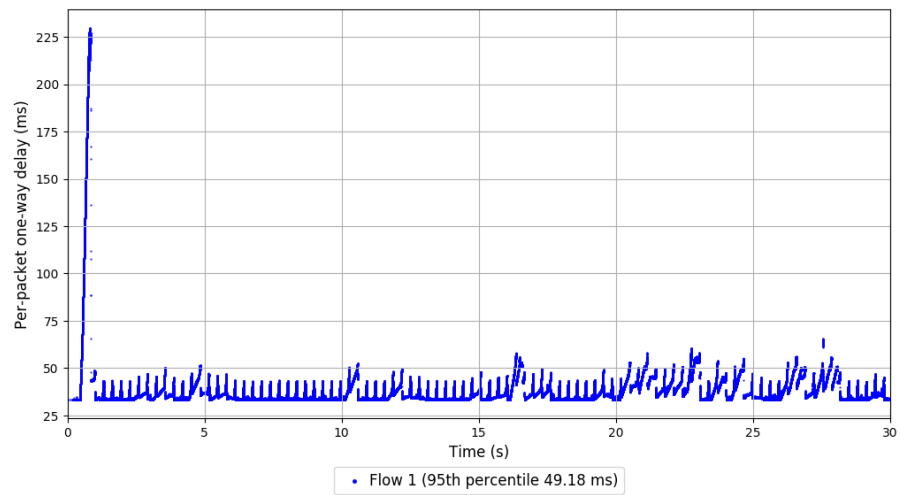
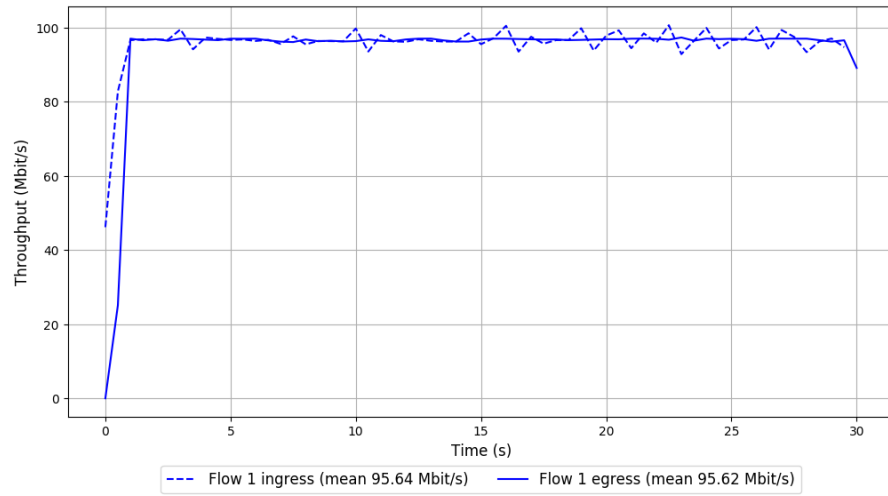
-- Flow 1:

Average throughput: 95.62 Mbit/s

95th percentile per-packet one-way delay: 49.183 ms

Loss rate: 0.24%

Run 2: Report of FillP — Data Link

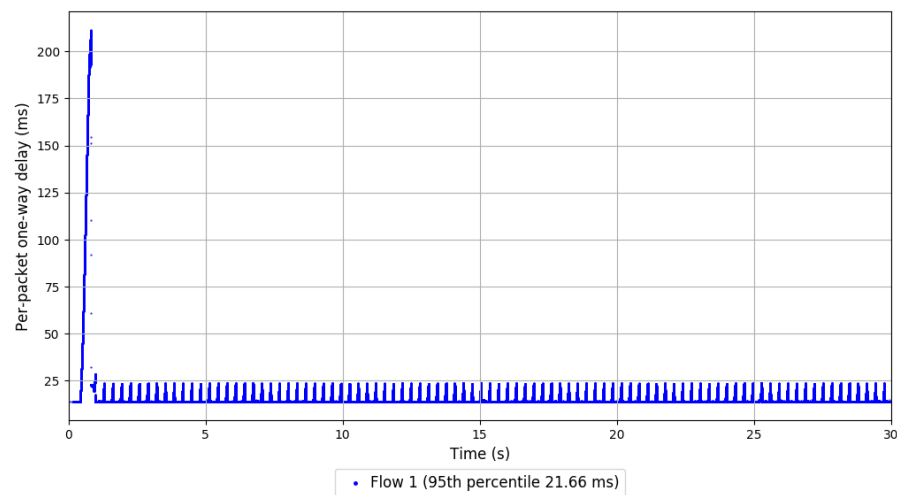
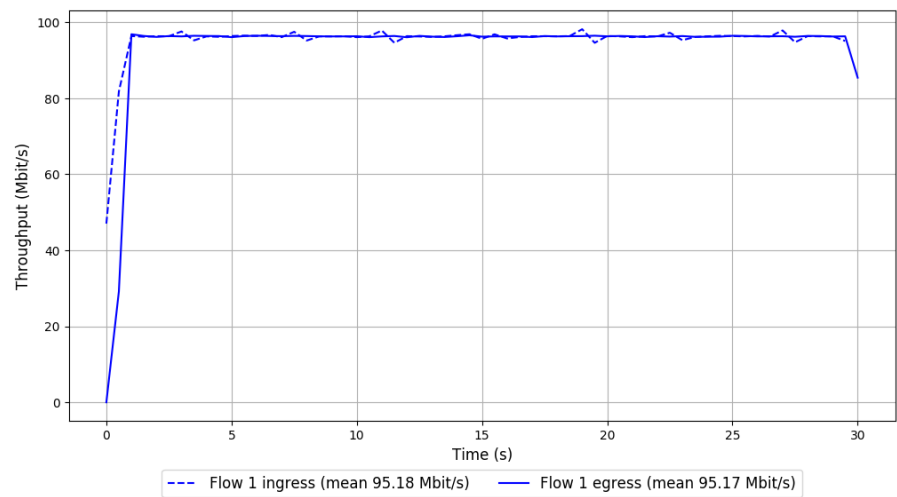


Run 3: Statistics of FillP

Start at: 2019-03-09 08:43:03
End at: 2019-03-09 08:43:33
Local clock offset: 0.075 ms
Remote clock offset: 20.772 ms

Below is generated by plot.py at 2019-03-09 09:43:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.17 Mbit/s
95th percentile per-packet one-way delay: 21.665 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 95.17 Mbit/s
95th percentile per-packet one-way delay: 21.665 ms
Loss rate: 0.22%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-03-09 09:07:35

End at: 2019-03-09 09:08:05

Local clock offset: 0.178 ms

Remote clock offset: 1.841 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.17 Mbit/s

95th percentile per-packet one-way delay: 41.211 ms

Loss rate: 0.22%

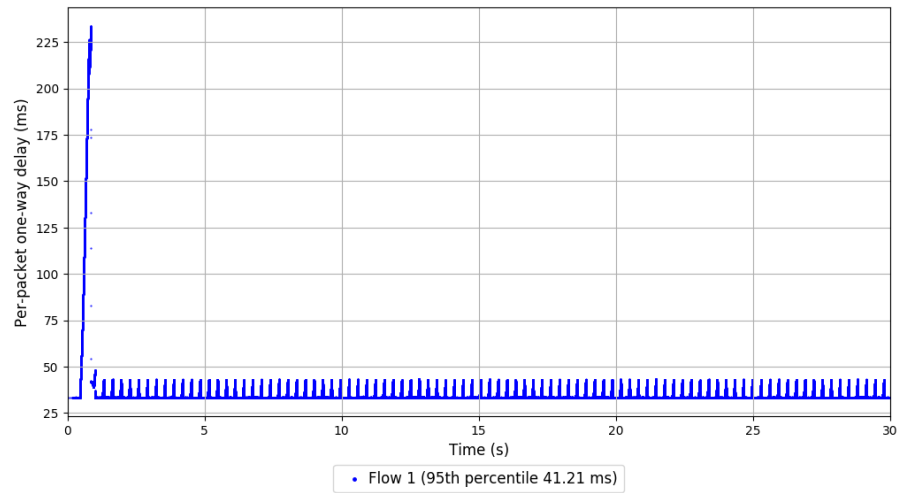
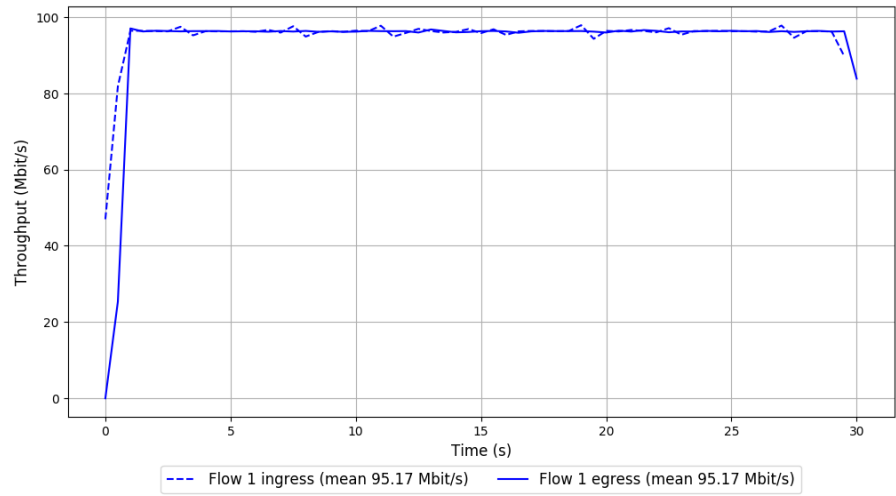
-- Flow 1:

Average throughput: 95.17 Mbit/s

95th percentile per-packet one-way delay: 41.211 ms

Loss rate: 0.22%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-03-09 09:32:15

End at: 2019-03-09 09:32:45

Local clock offset: 0.334 ms

Remote clock offset: 1.787 ms

Below is generated by plot.py at 2019-03-09 09:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.16 Mbit/s

95th percentile per-packet one-way delay: 41.218 ms

Loss rate: 0.22%

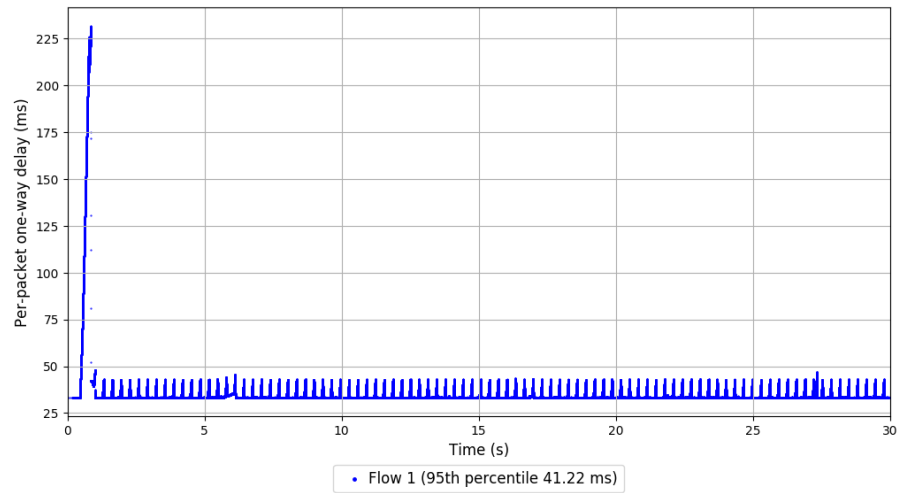
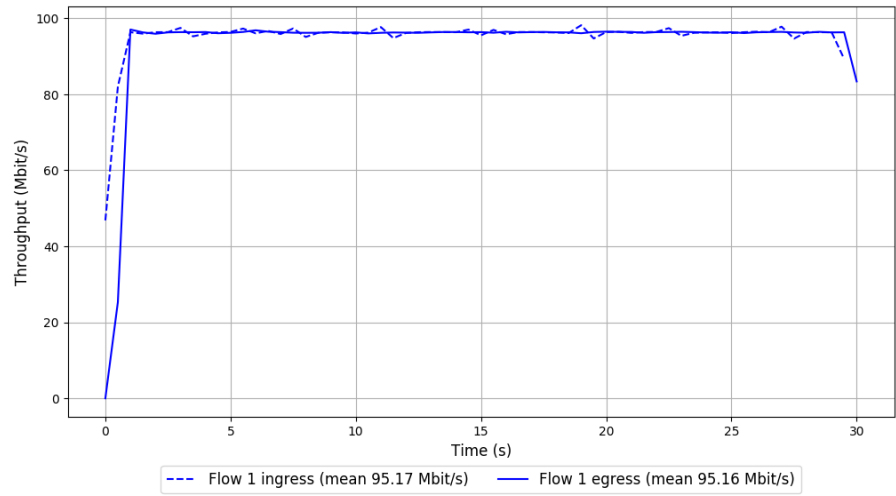
-- Flow 1:

Average throughput: 95.16 Mbit/s

95th percentile per-packet one-way delay: 41.218 ms

Loss rate: 0.22%

Run 5: Report of FillP — Data Link

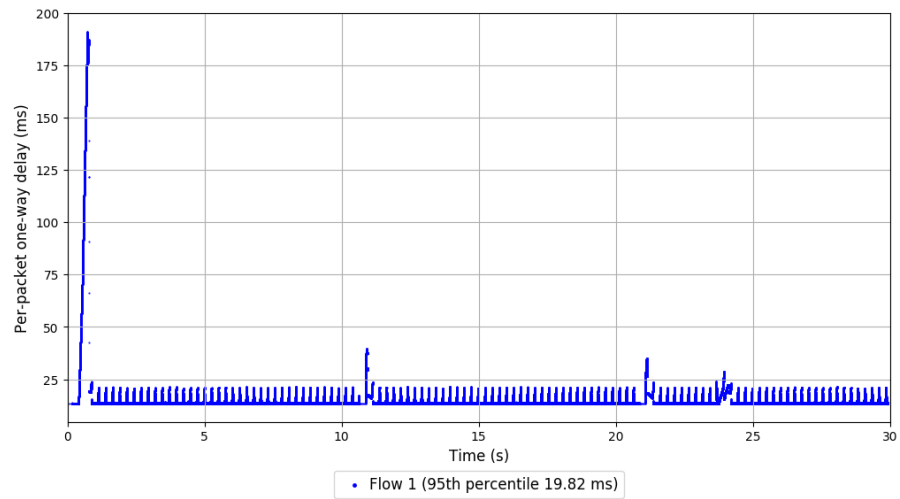
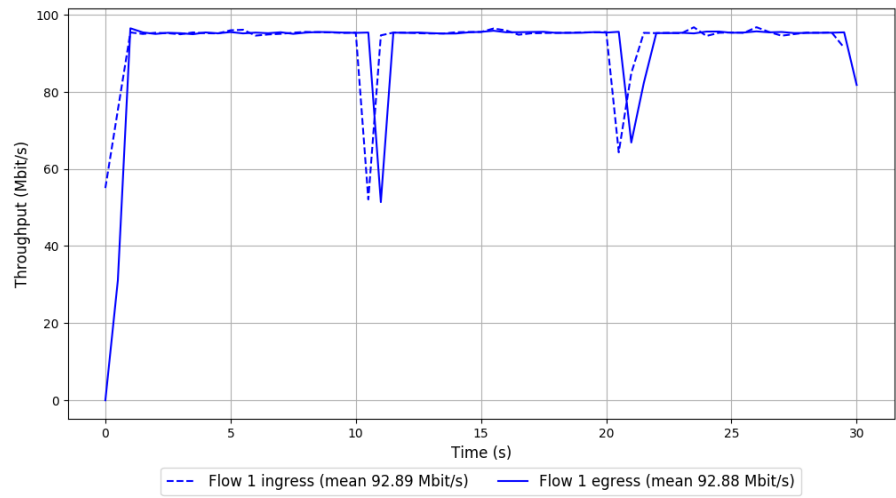


Run 1: Statistics of FillP-Sheep

Start at: 2019-03-09 07:52:41
End at: 2019-03-09 07:53:11
Local clock offset: 0.047 ms
Remote clock offset: 18.589 ms

Below is generated by plot.py at 2019-03-09 09:44:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.88 Mbit/s
95th percentile per-packet one-way delay: 19.825 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 92.88 Mbit/s
95th percentile per-packet one-way delay: 19.825 ms
Loss rate: 0.22%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-03-09 08:17:19

End at: 2019-03-09 08:17:49

Local clock offset: 0.082 ms

Remote clock offset: 0.052 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.86 Mbit/s

95th percentile per-packet one-way delay: 39.435 ms

Loss rate: 0.24%

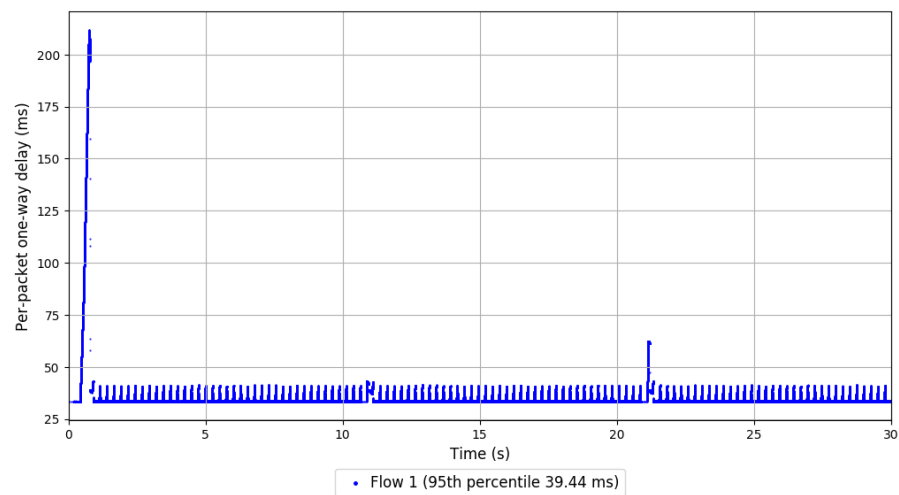
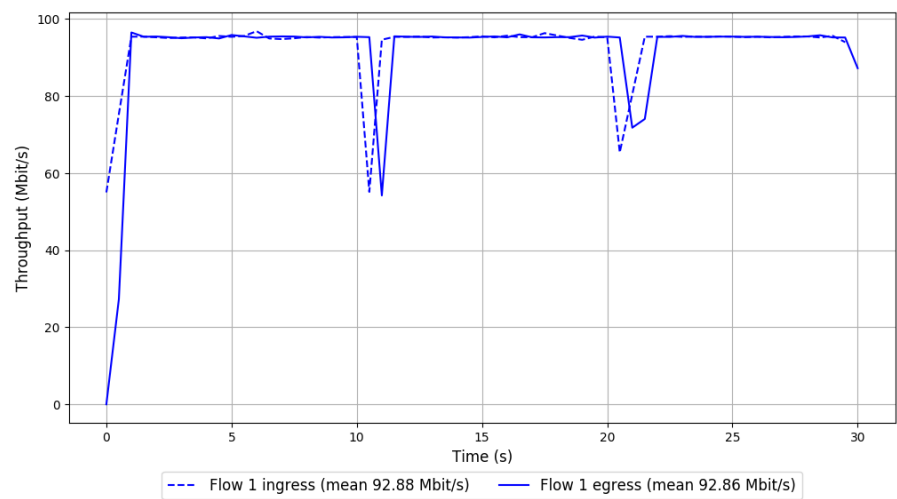
-- Flow 1:

Average throughput: 92.86 Mbit/s

95th percentile per-packet one-way delay: 39.435 ms

Loss rate: 0.24%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-03-09 08:41:54

End at: 2019-03-09 08:42:24

Local clock offset: 0.081 ms

Remote clock offset: 1.054 ms

Below is generated by plot.py at 2019-03-09 09:44:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.99 Mbit/s

95th percentile per-packet one-way delay: 39.925 ms

Loss rate: 0.23%

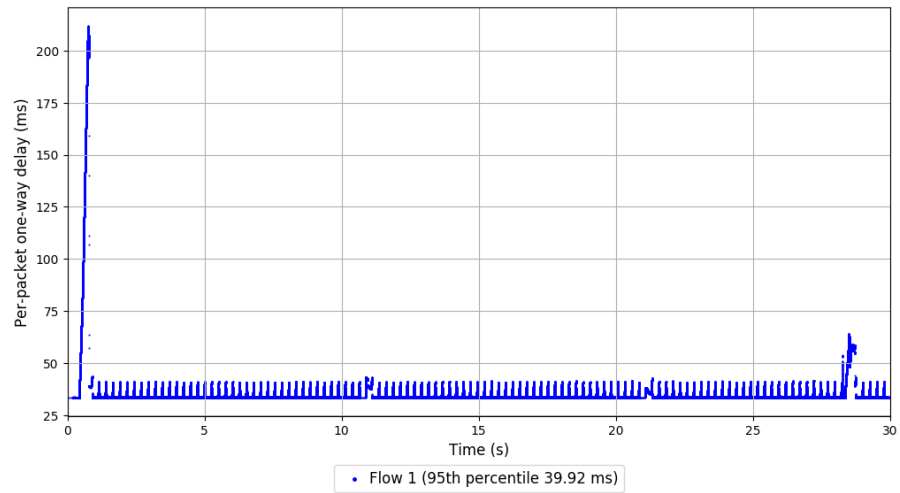
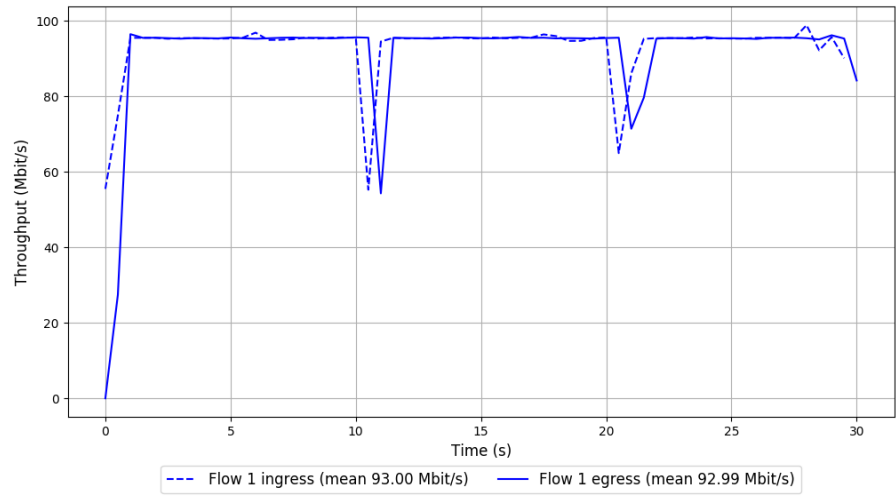
-- Flow 1:

Average throughput: 92.99 Mbit/s

95th percentile per-packet one-way delay: 39.925 ms

Loss rate: 0.23%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-03-09 09:06:25

End at: 2019-03-09 09:06:55

Local clock offset: 0.186 ms

Remote clock offset: 1.815 ms

Below is generated by plot.py at 2019-03-09 09:45:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.91 Mbit/s

95th percentile per-packet one-way delay: 40.031 ms

Loss rate: 0.22%

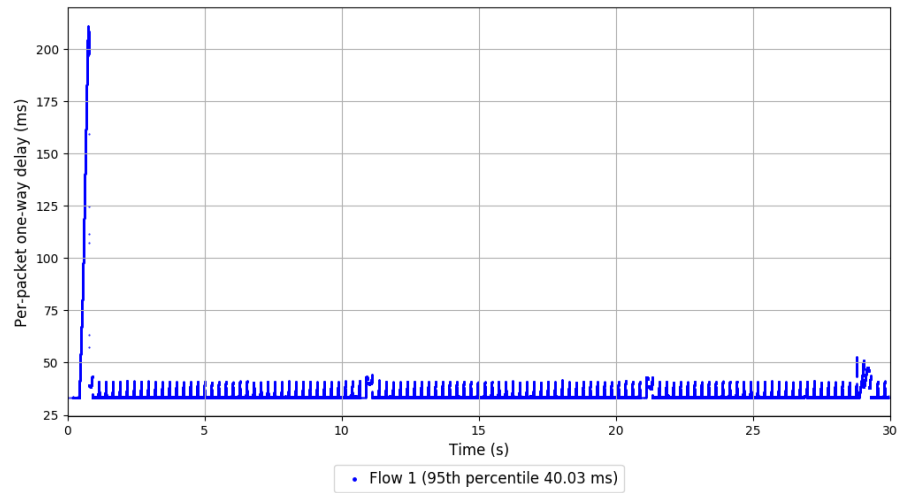
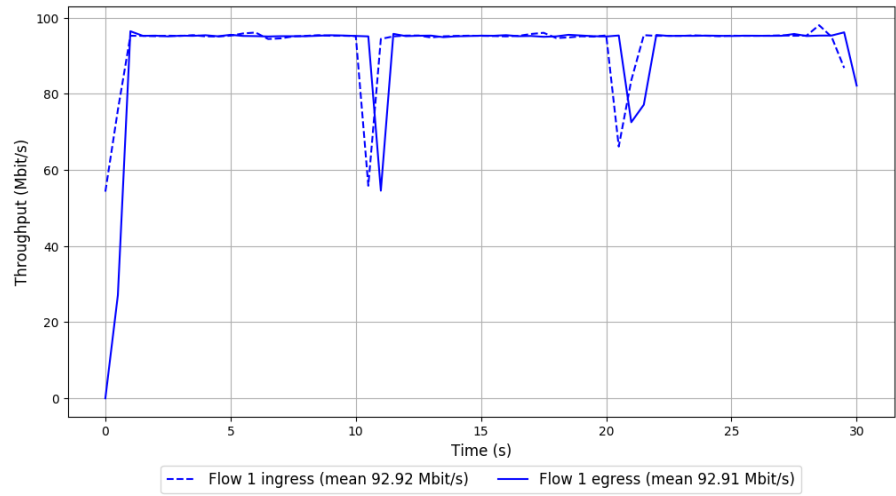
-- Flow 1:

Average throughput: 92.91 Mbit/s

95th percentile per-packet one-way delay: 40.031 ms

Loss rate: 0.22%

Run 4: Report of FillP-Sheep — Data Link

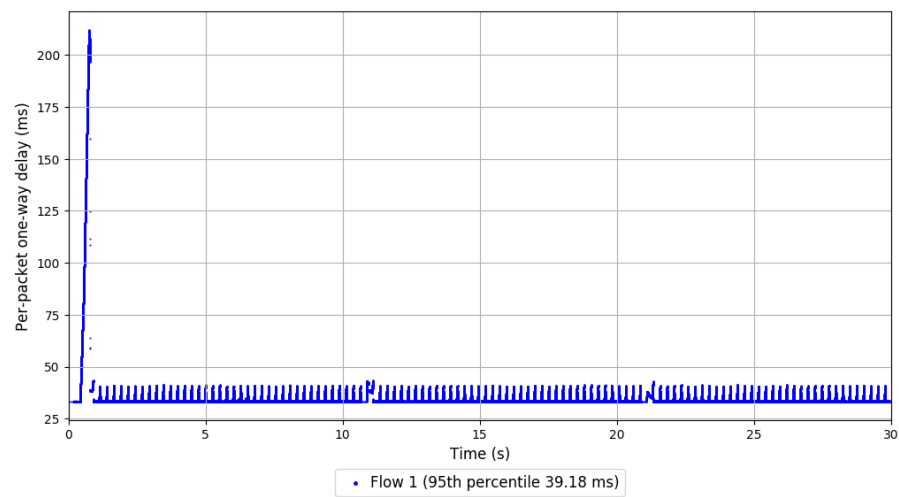
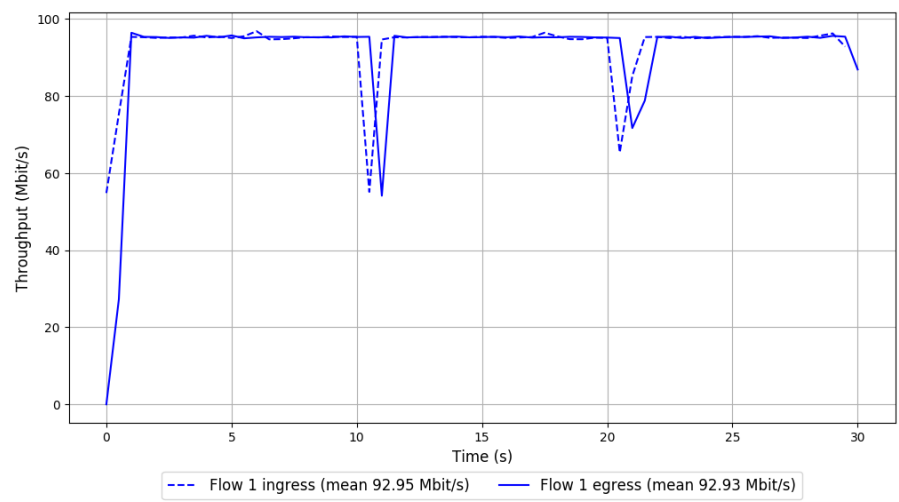


Run 5: Statistics of FillP-Sheep

Start at: 2019-03-09 09:31:03
End at: 2019-03-09 09:31:33
Local clock offset: 0.33 ms
Remote clock offset: 1.821 ms

Below is generated by plot.py at 2019-03-09 09:45:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.93 Mbit/s
95th percentile per-packet one-way delay: 39.180 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 92.93 Mbit/s
95th percentile per-packet one-way delay: 39.180 ms
Loss rate: 0.23%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-03-09 07:56:13

End at: 2019-03-09 07:56:43

Local clock offset: 0.05 ms

Remote clock offset: -1.278 ms

Below is generated by plot.py at 2019-03-09 09:45:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.77 Mbit/s

95th percentile per-packet one-way delay: 38.146 ms

Loss rate: 0.23%

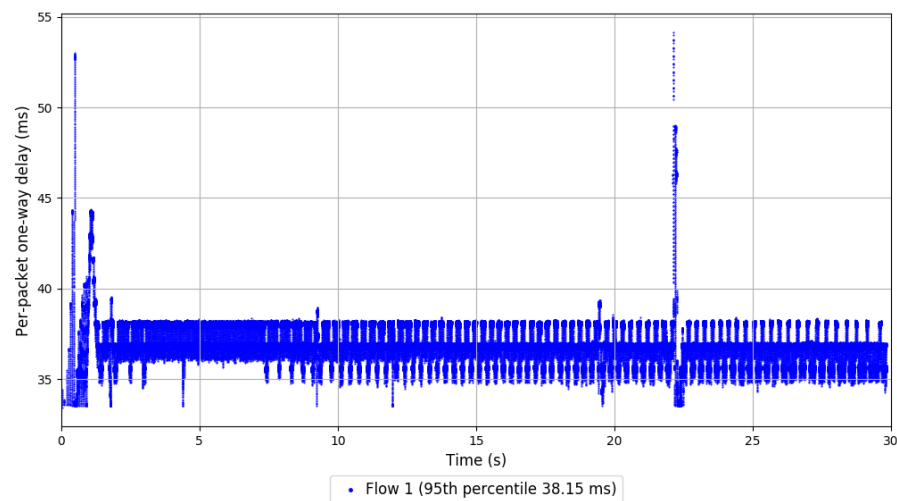
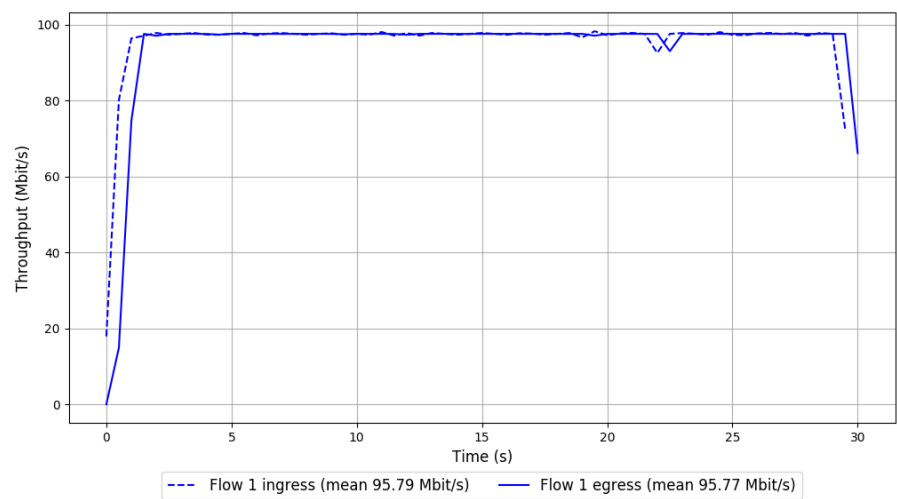
-- Flow 1:

Average throughput: 95.77 Mbit/s

95th percentile per-packet one-way delay: 38.146 ms

Loss rate: 0.23%

Run 1: Report of Indigo — Data Link

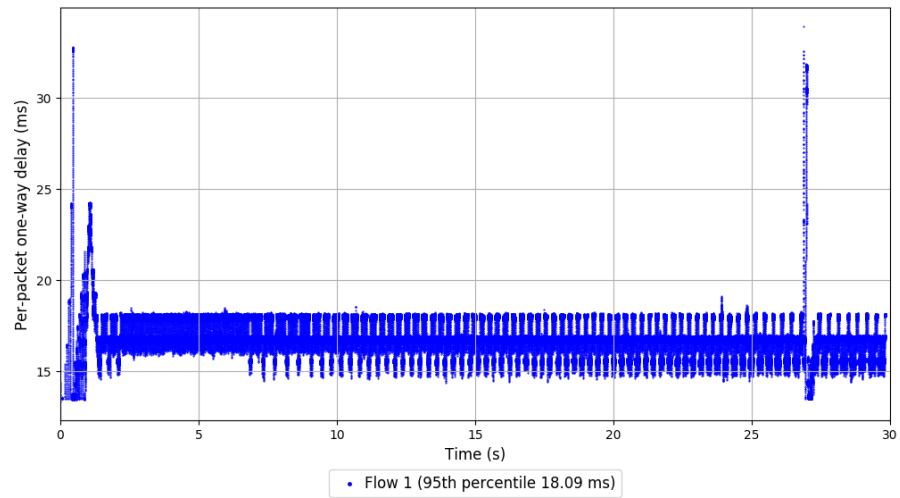
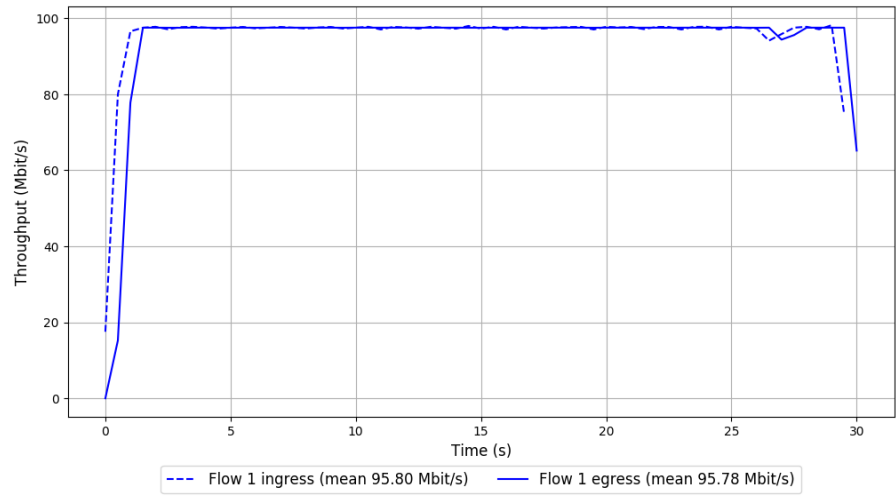


Run 2: Statistics of Indigo

Start at: 2019-03-09 08:20:47
End at: 2019-03-09 08:21:17
Local clock offset: 0.073 ms
Remote clock offset: 20.287 ms

Below is generated by plot.py at 2019-03-09 09:45:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.78 Mbit/s
95th percentile per-packet one-way delay: 18.094 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 95.78 Mbit/s
95th percentile per-packet one-way delay: 18.094 ms
Loss rate: 0.23%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-03-09 08:45:22

End at: 2019-03-09 08:45:52

Local clock offset: 0.074 ms

Remote clock offset: 1.015 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.84 Mbit/s

95th percentile per-packet one-way delay: 38.372 ms

Loss rate: 0.22%

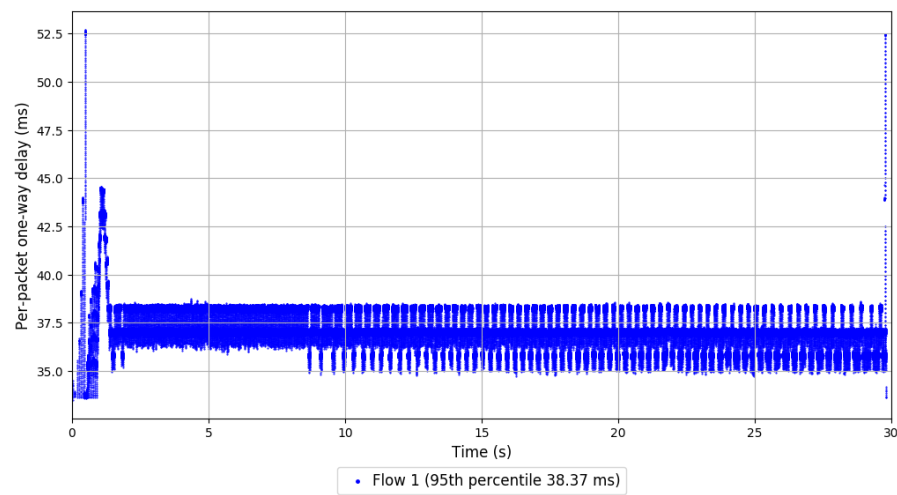
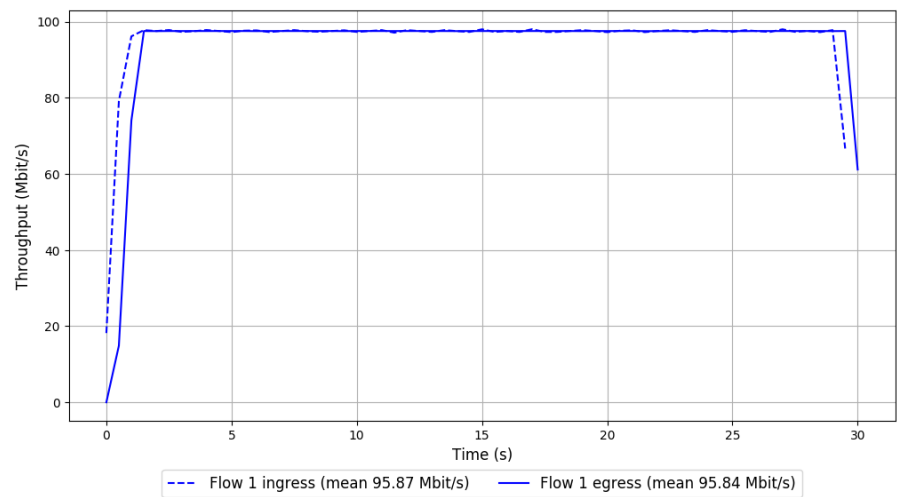
-- Flow 1:

Average throughput: 95.84 Mbit/s

95th percentile per-packet one-way delay: 38.372 ms

Loss rate: 0.22%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

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

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

Local clock offset: 0.185 ms

Remote clock offset: 1.916 ms

Below is generated by plot.py at 2019-03-09 09:45:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.89 Mbit/s

95th percentile per-packet one-way delay: 37.987 ms

Loss rate: 0.23%

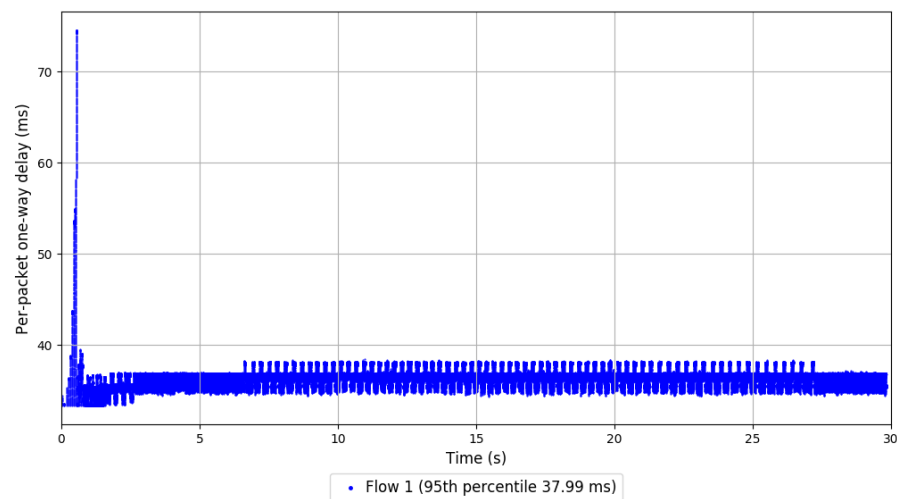
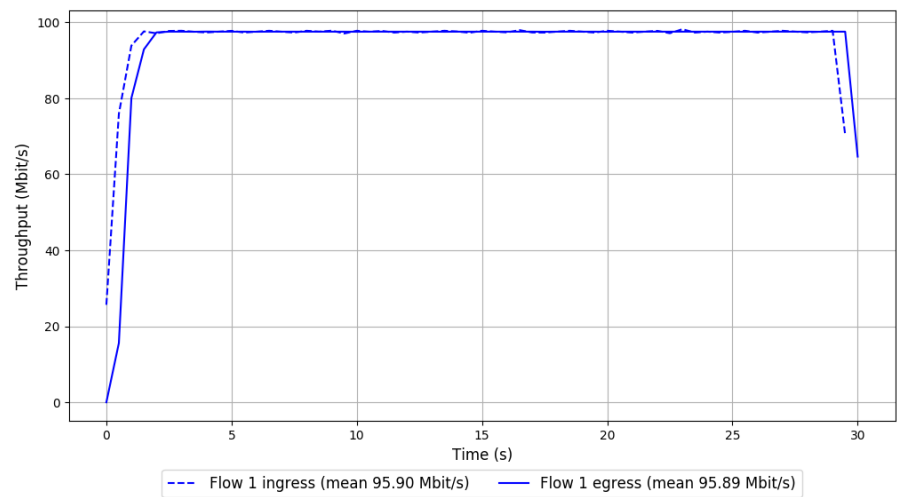
-- Flow 1:

Average throughput: 95.89 Mbit/s

95th percentile per-packet one-way delay: 37.987 ms

Loss rate: 0.23%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

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

End at: 2019-03-09 09:35:04

Local clock offset: 0.349 ms

Remote clock offset: 1.741 ms

Below is generated by plot.py at 2019-03-09 09:45:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.79 Mbit/s

95th percentile per-packet one-way delay: 38.080 ms

Loss rate: 0.23%

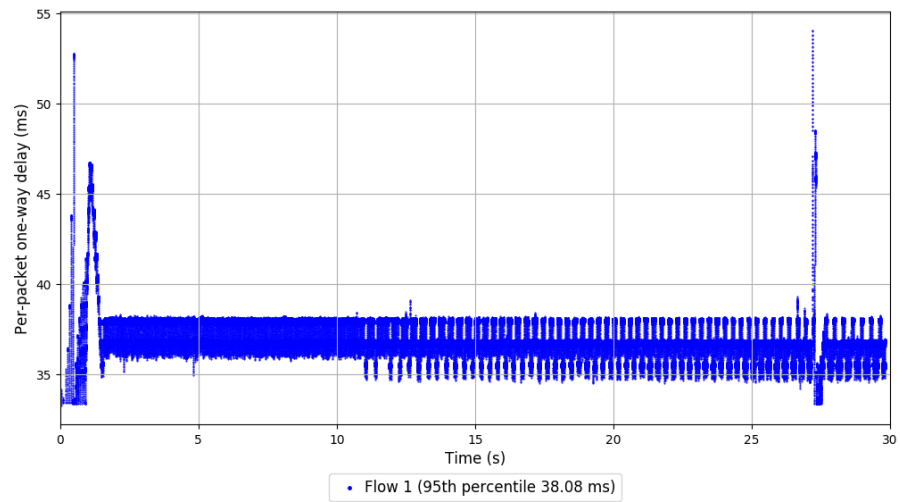
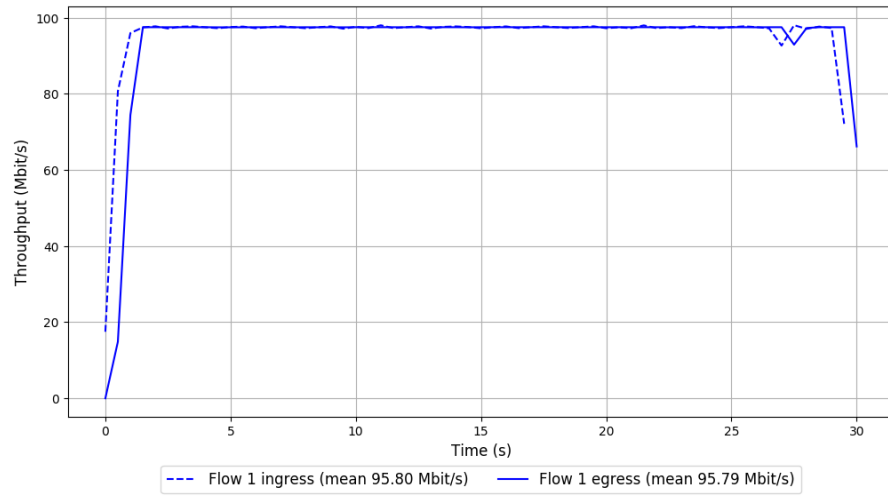
-- Flow 1:

Average throughput: 95.79 Mbit/s

95th percentile per-packet one-way delay: 38.080 ms

Loss rate: 0.23%

Run 5: Report of Indigo — Data Link

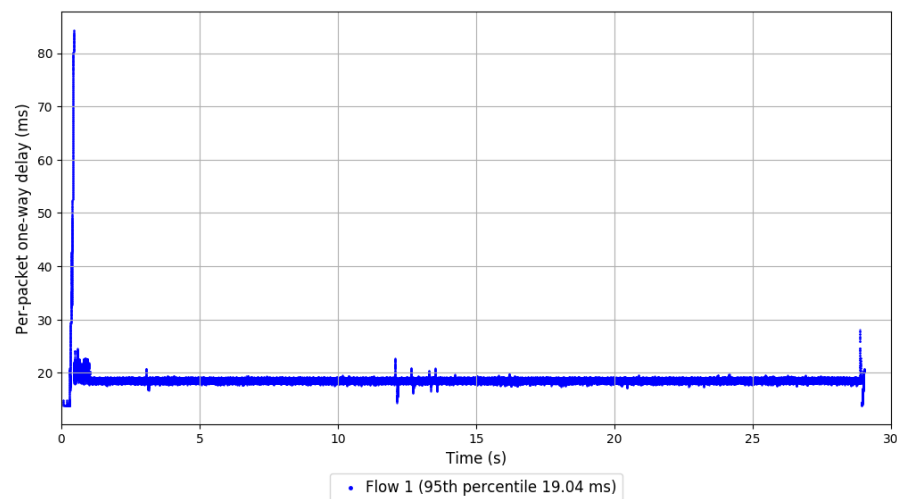
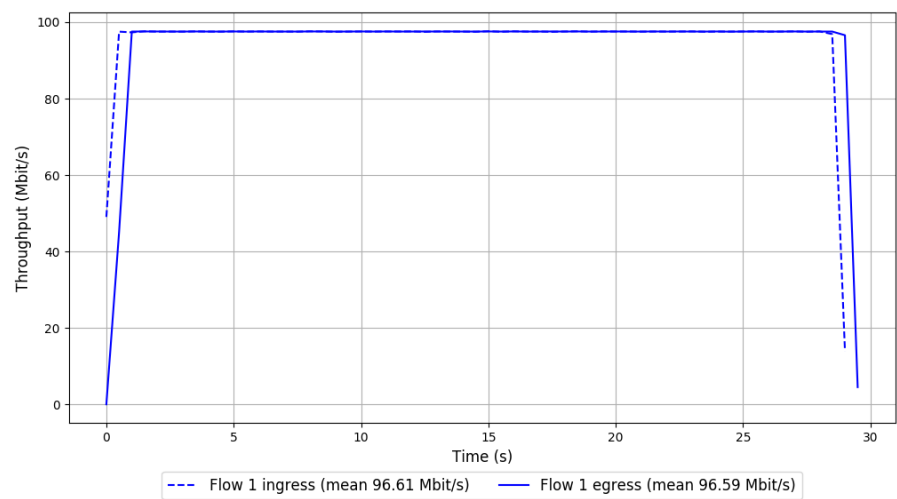


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-03-09 07:47:48
End at: 2019-03-09 07:48:18
Local clock offset: 0.024 ms
Remote clock offset: 17.795 ms

Below is generated by plot.py at 2019-03-09 09:46:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.59 Mbit/s
95th percentile per-packet one-way delay: 19.042 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.59 Mbit/s
95th percentile per-packet one-way delay: 19.042 ms
Loss rate: 0.24%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-03-09 08:12:37

End at: 2019-03-09 08:13:07

Local clock offset: 0.092 ms

Remote clock offset: -0.22 ms

Below is generated by plot.py at 2019-03-09 09:46:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.57 Mbit/s

95th percentile per-packet one-way delay: 38.655 ms

Loss rate: 0.25%

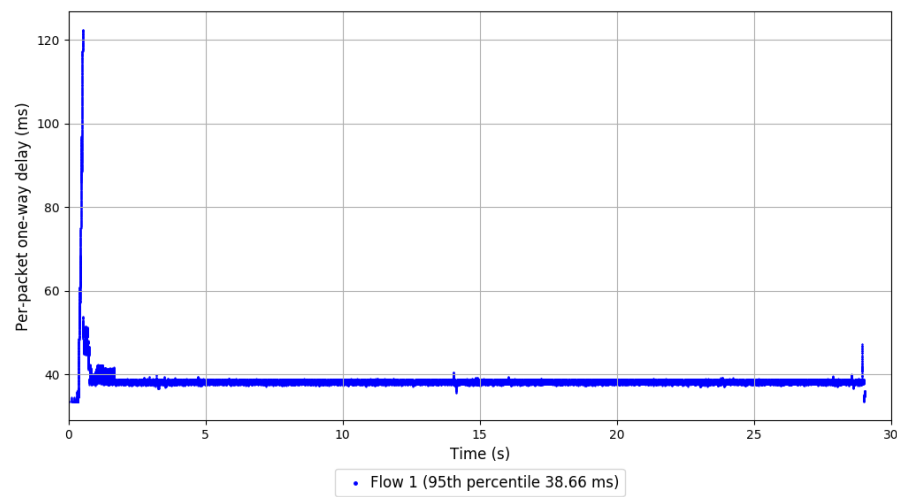
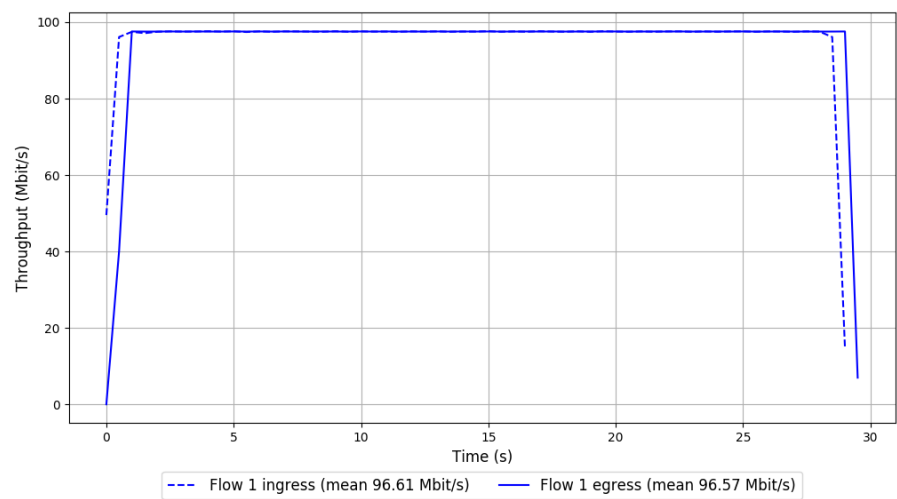
-- Flow 1:

Average throughput: 96.57 Mbit/s

95th percentile per-packet one-way delay: 38.655 ms

Loss rate: 0.25%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-03-09 08:37:11

End at: 2019-03-09 08:37:41

Local clock offset: 0.085 ms

Remote clock offset: 0.786 ms

Below is generated by plot.py at 2019-03-09 09:46:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.59 Mbit/s

95th percentile per-packet one-way delay: 41.158 ms

Loss rate: 0.24%

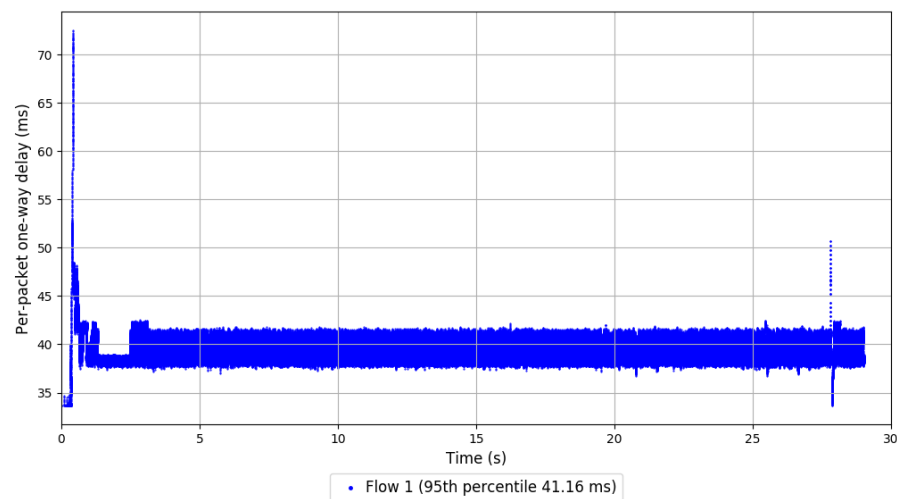
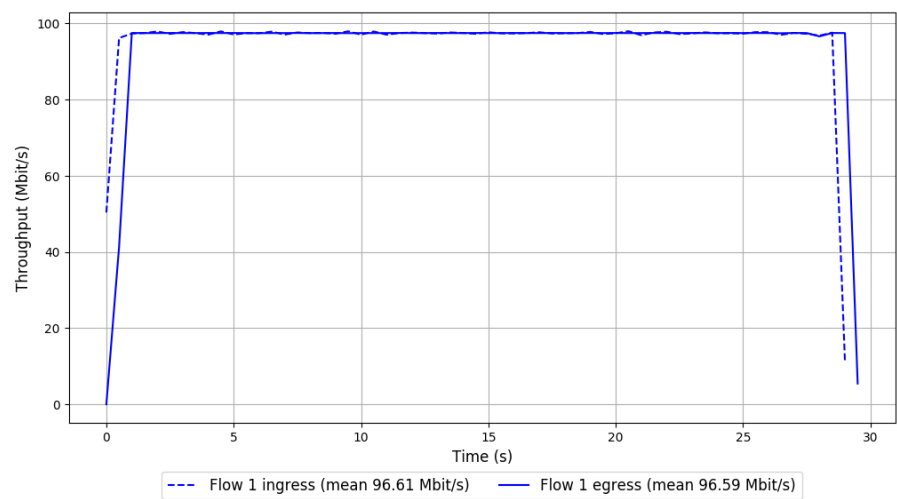
-- Flow 1:

Average throughput: 96.59 Mbit/s

95th percentile per-packet one-way delay: 41.158 ms

Loss rate: 0.24%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-03-09 09:01:43

End at: 2019-03-09 09:02:13

Local clock offset: 0.166 ms

Remote clock offset: 1.698 ms

Below is generated by plot.py at 2019-03-09 09:46:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.45 Mbit/s

95th percentile per-packet one-way delay: 40.881 ms

Loss rate: 0.24%

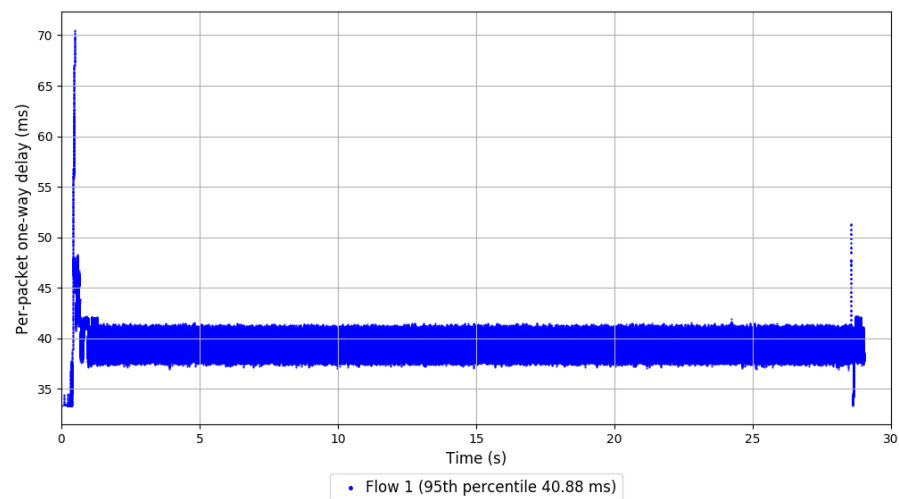
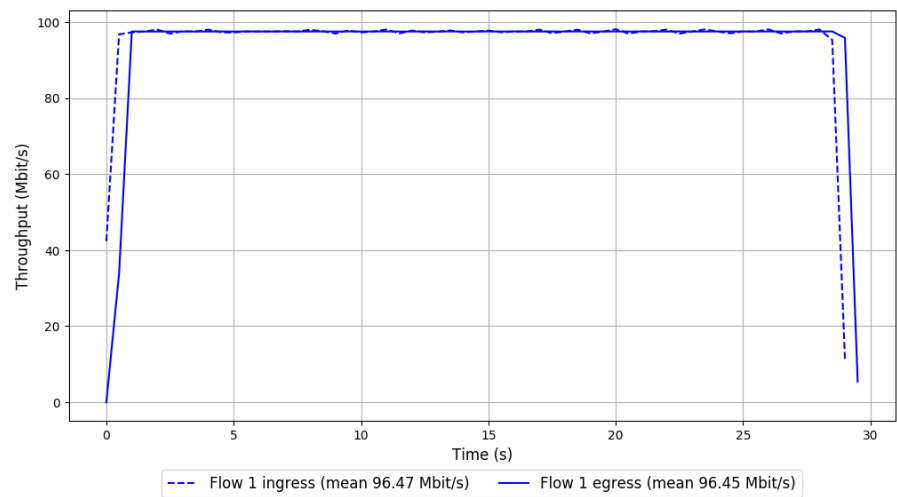
-- Flow 1:

Average throughput: 96.45 Mbit/s

95th percentile per-packet one-way delay: 40.881 ms

Loss rate: 0.24%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-03-09 09:26:18

End at: 2019-03-09 09:26:48

Local clock offset: 0.298 ms

Remote clock offset: 1.908 ms

Below is generated by plot.py at 2019-03-09 09:46:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.50 Mbit/s

95th percentile per-packet one-way delay: 38.417 ms

Loss rate: 0.24%

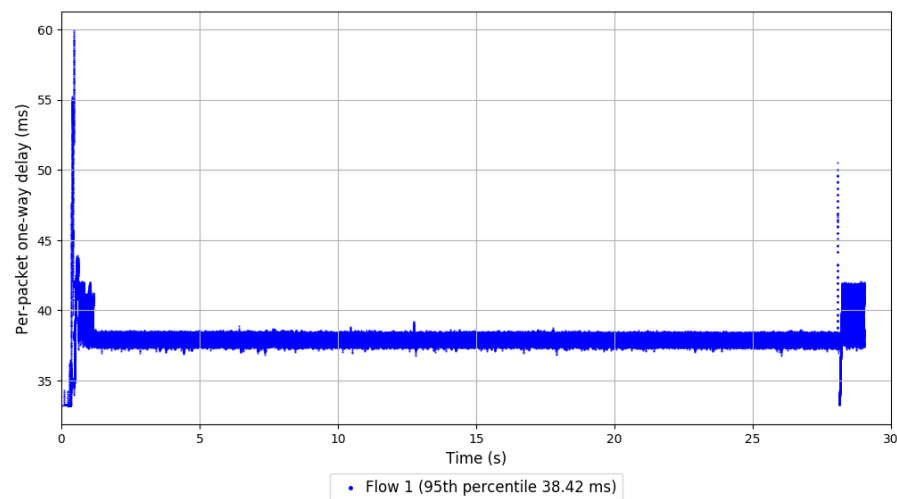
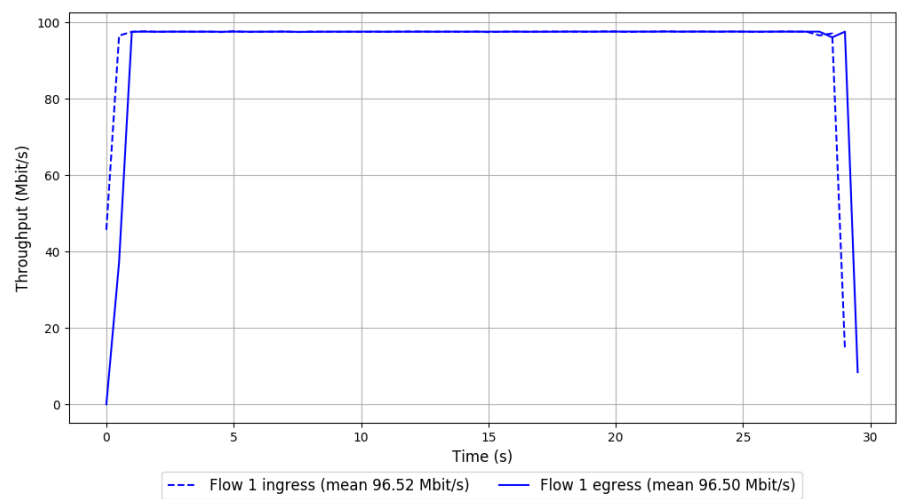
-- Flow 1:

Average throughput: 96.50 Mbit/s

95th percentile per-packet one-way delay: 38.417 ms

Loss rate: 0.24%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-03-09 07:57:26

End at: 2019-03-09 07:57:56

Local clock offset: 0.046 ms

Remote clock offset: -1.403 ms

Below is generated by plot.py at 2019-03-09 09:46:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.10 Mbit/s

95th percentile per-packet one-way delay: 38.273 ms

Loss rate: 0.26%

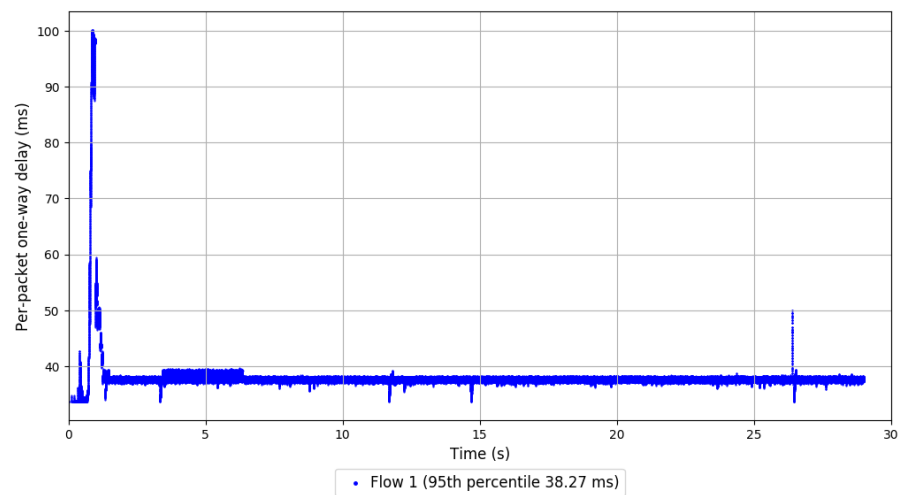
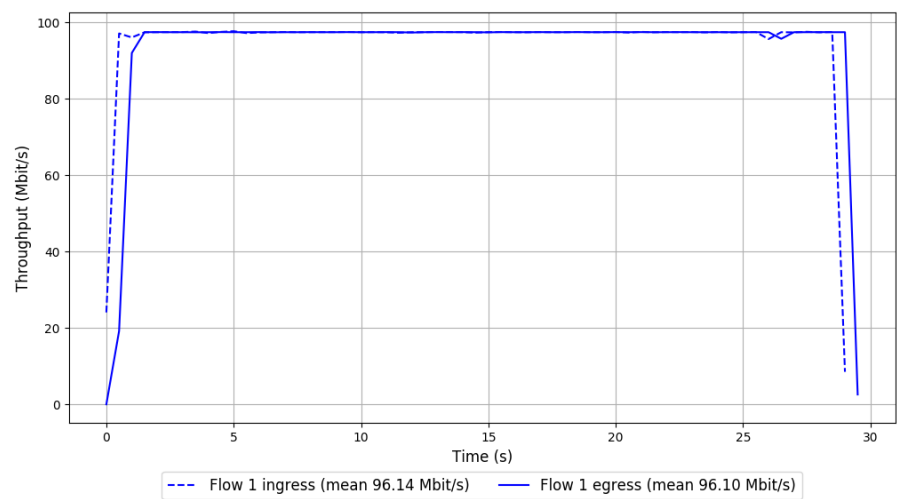
-- Flow 1:

Average throughput: 96.10 Mbit/s

95th percentile per-packet one-way delay: 38.273 ms

Loss rate: 0.26%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-03-09 08:21:59

End at: 2019-03-09 08:22:29

Local clock offset: 0.082 ms

Remote clock offset: 0.155 ms

Below is generated by plot.py at 2019-03-09 09:46:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.18 Mbit/s

95th percentile per-packet one-way delay: 38.813 ms

Loss rate: 0.24%

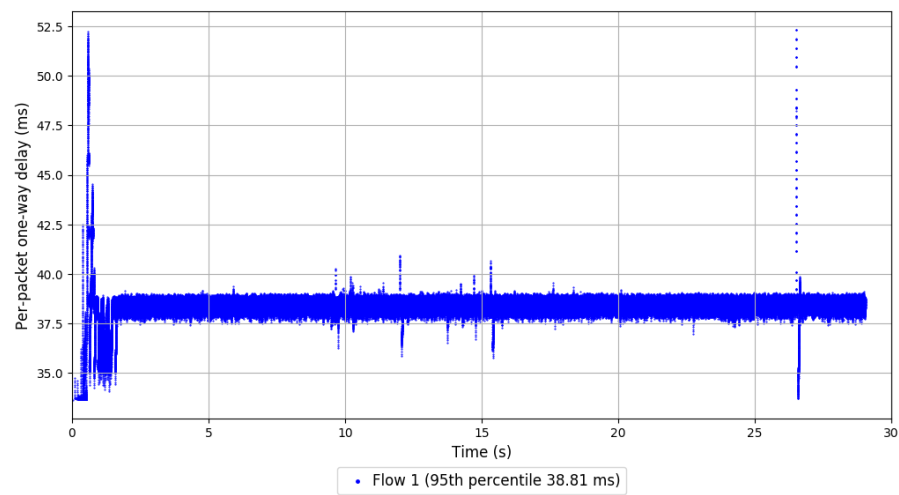
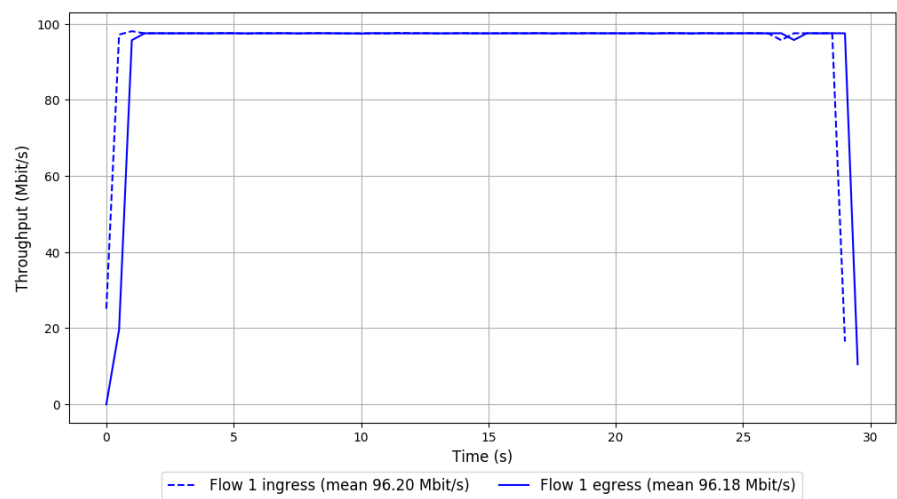
-- Flow 1:

Average throughput: 96.18 Mbit/s

95th percentile per-packet one-way delay: 38.813 ms

Loss rate: 0.24%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-03-09 08:46:34

End at: 2019-03-09 08:47:04

Local clock offset: 0.092 ms

Remote clock offset: 1.249 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.06 Mbit/s

95th percentile per-packet one-way delay: 37.750 ms

Loss rate: 0.23%

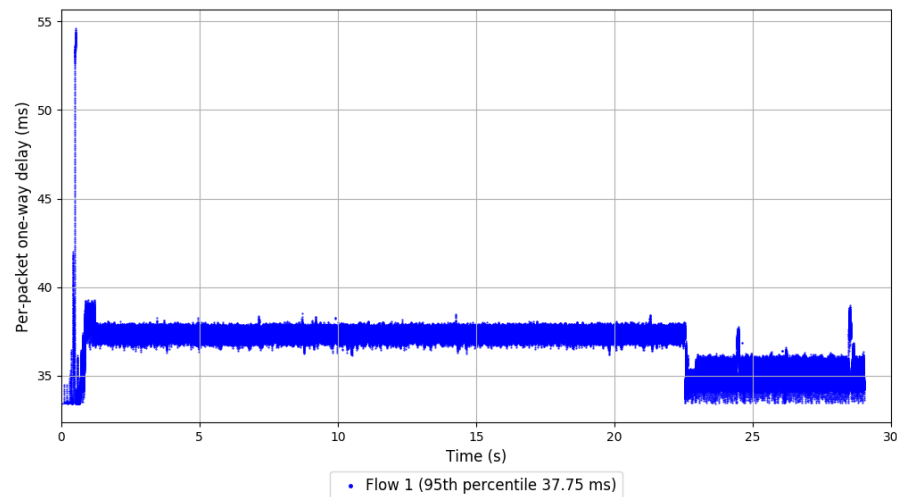
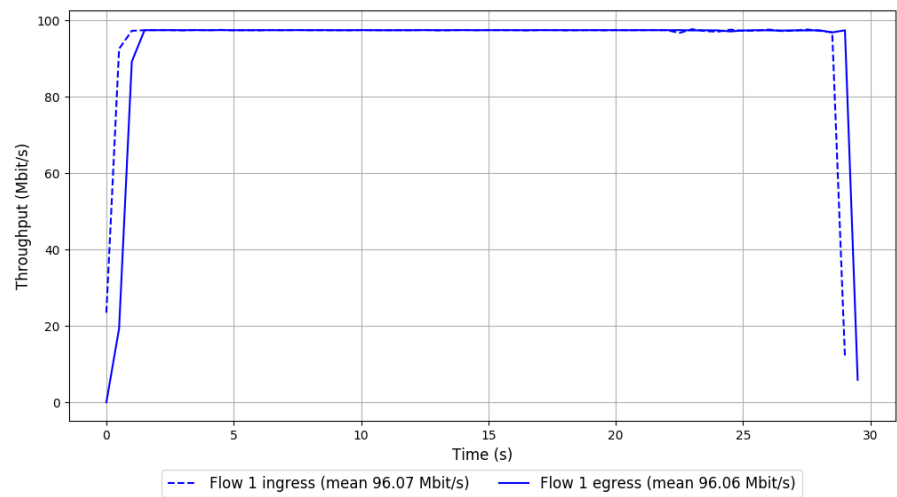
-- Flow 1:

Average throughput: 96.06 Mbit/s

95th percentile per-packet one-way delay: 37.750 ms

Loss rate: 0.23%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-03-09 09:11:05

End at: 2019-03-09 09:11:35

Local clock offset: 0.192 ms

Remote clock offset: 1.956 ms

Below is generated by plot.py at 2019-03-09 09:47:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.22 Mbit/s

95th percentile per-packet one-way delay: 38.417 ms

Loss rate: 0.24%

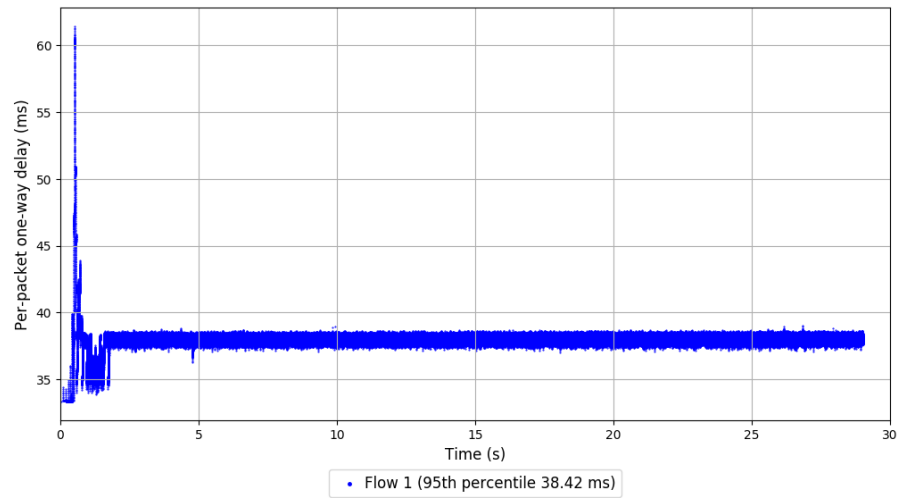
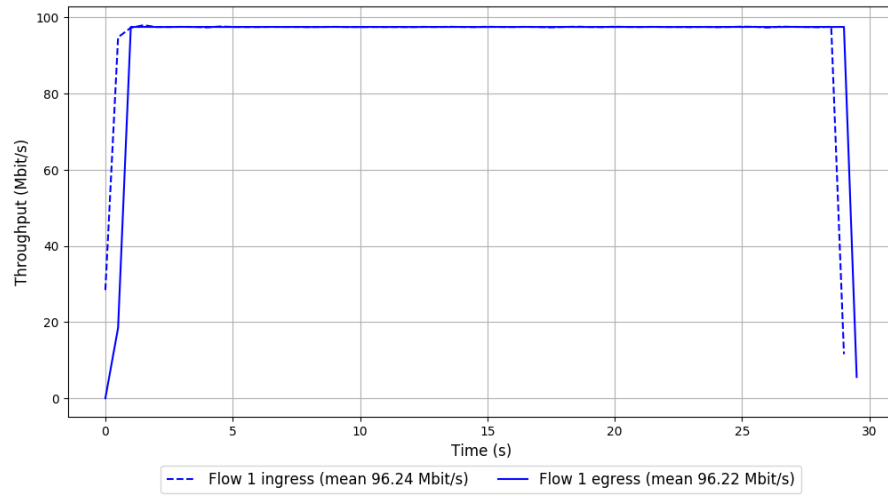
-- Flow 1:

Average throughput: 96.22 Mbit/s

95th percentile per-packet one-way delay: 38.417 ms

Loss rate: 0.24%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-03-09 09:35:45

End at: 2019-03-09 09:36:15

Local clock offset: 0.348 ms

Remote clock offset: 1.778 ms

Below is generated by plot.py at 2019-03-09 09:47:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 38.467 ms

Loss rate: 0.24%

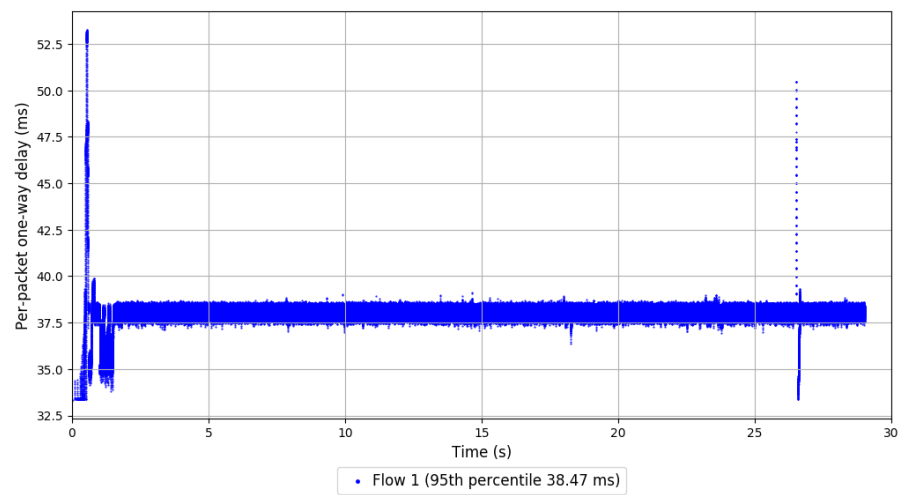
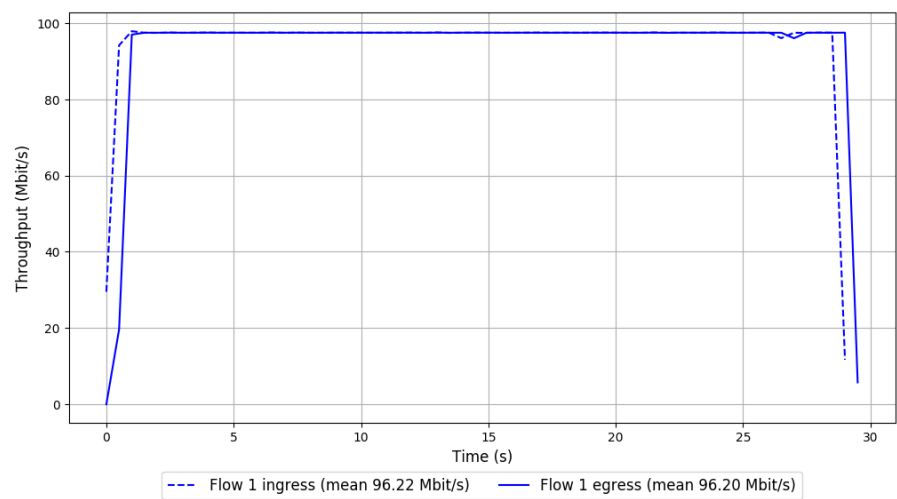
-- Flow 1:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 38.467 ms

Loss rate: 0.24%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-03-09 07:45:21

End at: 2019-03-09 07:45:51

Local clock offset: 0.01 ms

Remote clock offset: -1.9 ms

Below is generated by plot.py at 2019-03-09 09:47:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.36 Mbit/s

95th percentile per-packet one-way delay: 37.835 ms

Loss rate: 0.24%

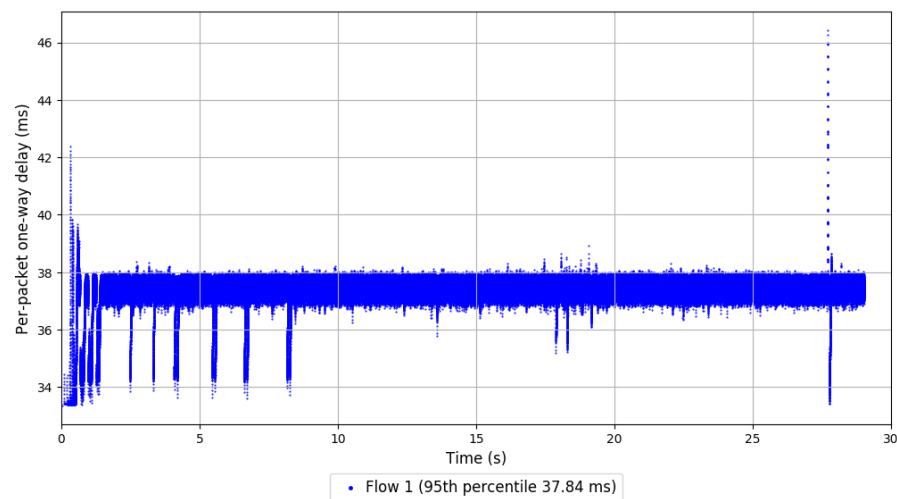
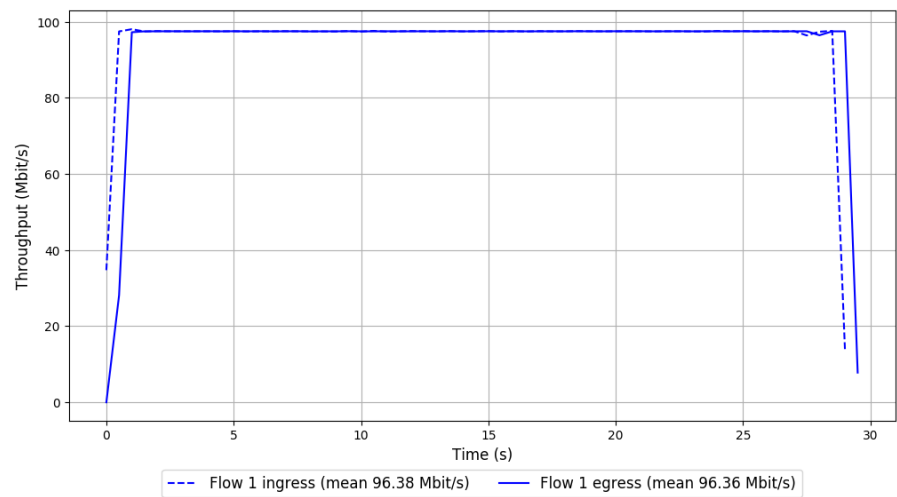
-- Flow 1:

Average throughput: 96.36 Mbit/s

95th percentile per-packet one-way delay: 37.835 ms

Loss rate: 0.24%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-03-09 08:10:16

End at: 2019-03-09 08:10:46

Local clock offset: 0.076 ms

Remote clock offset: -0.354 ms

Below is generated by plot.py at 2019-03-09 09:47:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 37.751 ms

Loss rate: 0.24%

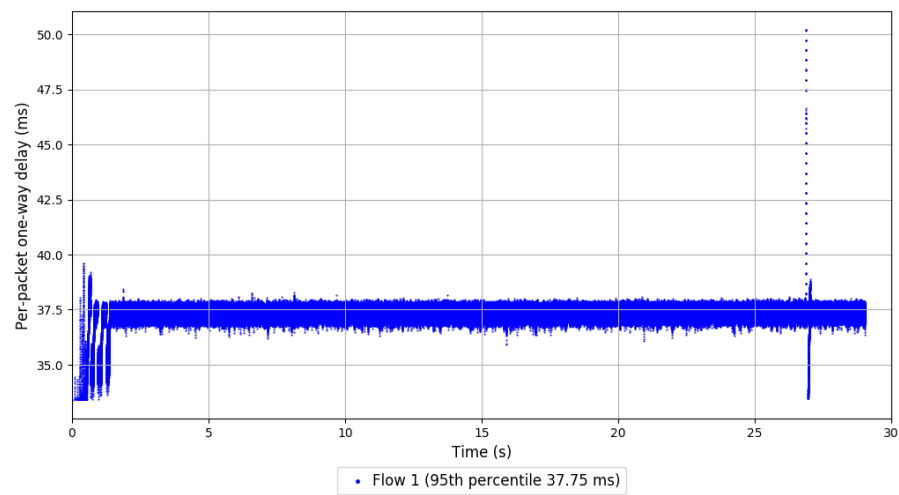
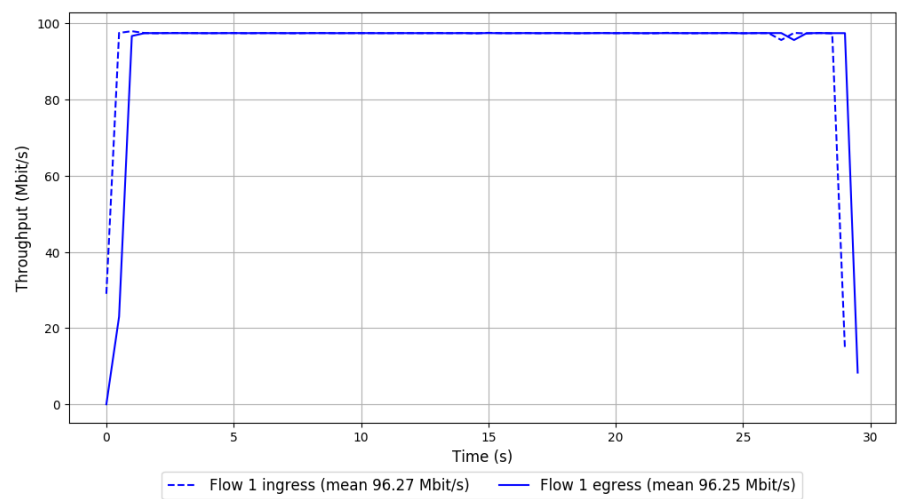
-- Flow 1:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 37.751 ms

Loss rate: 0.24%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-03-09 08:34:49

End at: 2019-03-09 08:35:19

Local clock offset: 0.09 ms

Remote clock offset: 0.919 ms

Below is generated by plot.py at 2019-03-09 09:47:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.01 Mbit/s

95th percentile per-packet one-way delay: 38.338 ms

Loss rate: 0.24%

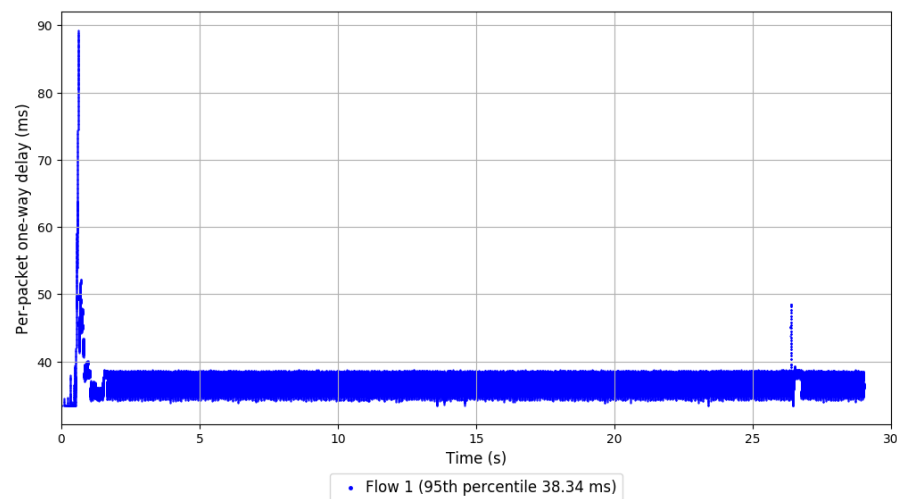
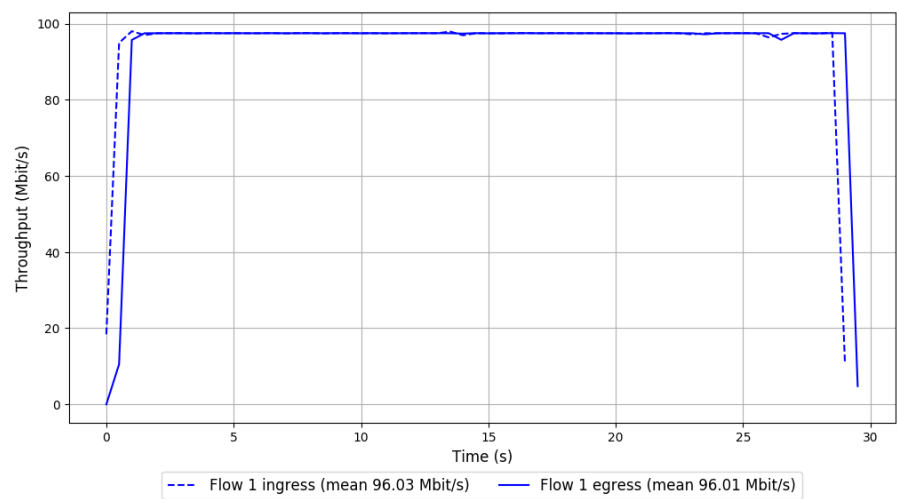
-- Flow 1:

Average throughput: 96.01 Mbit/s

95th percentile per-packet one-way delay: 38.338 ms

Loss rate: 0.24%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-03-09 08:59:22

End at: 2019-03-09 08:59:52

Local clock offset: 0.165 ms

Remote clock offset: 1.532 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.35 Mbit/s

95th percentile per-packet one-way delay: 37.860 ms

Loss rate: 0.24%

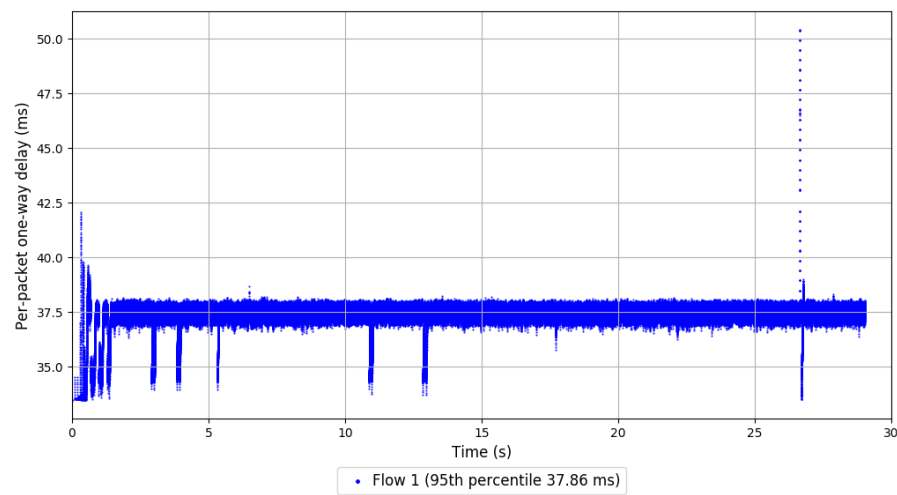
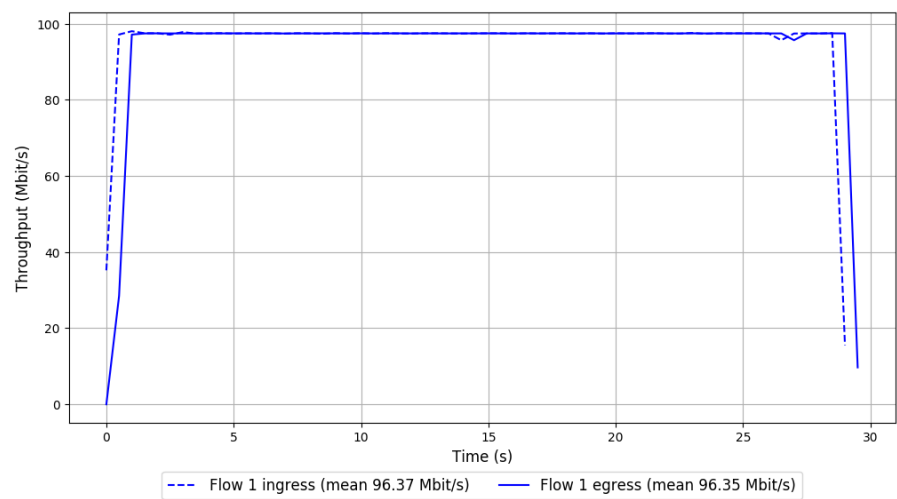
-- Flow 1:

Average throughput: 96.35 Mbit/s

95th percentile per-packet one-way delay: 37.860 ms

Loss rate: 0.24%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-03-09 09:23:55

End at: 2019-03-09 09:24:25

Local clock offset: 0.288 ms

Remote clock offset: 1.667 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 38.400 ms

Loss rate: 0.24%

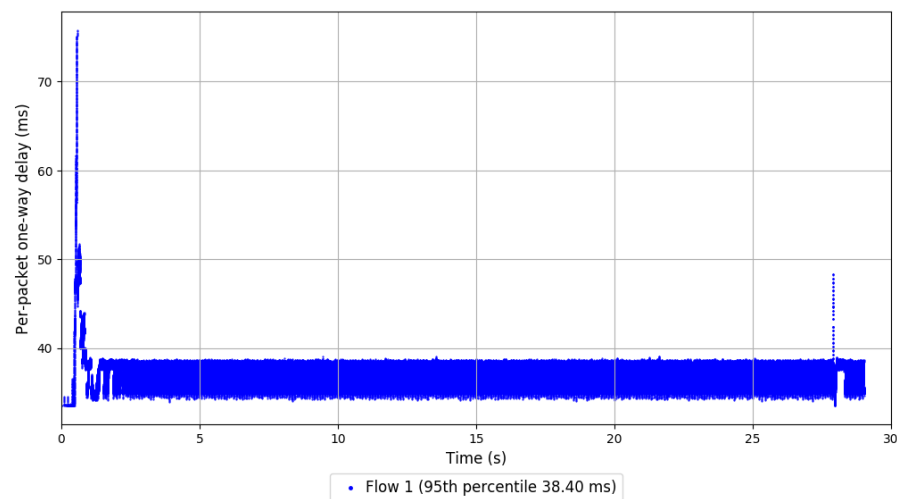
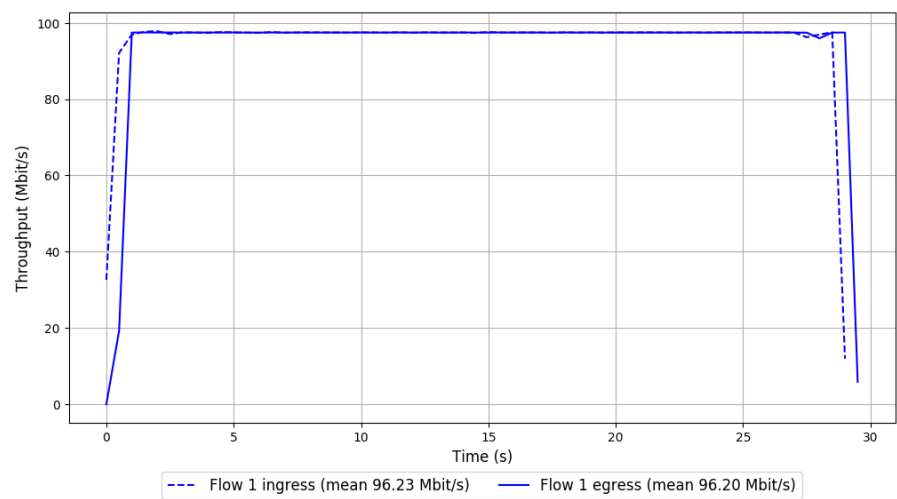
-- Flow 1:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 38.400 ms

Loss rate: 0.24%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-03-09 07:42:52

End at: 2019-03-09 07:43:22

Local clock offset: -0.009 ms

Remote clock offset: -2.0 ms

Below is generated by plot.py at 2019-03-09 09:48:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.57 Mbit/s

95th percentile per-packet one-way delay: 41.999 ms

Loss rate: 0.67%

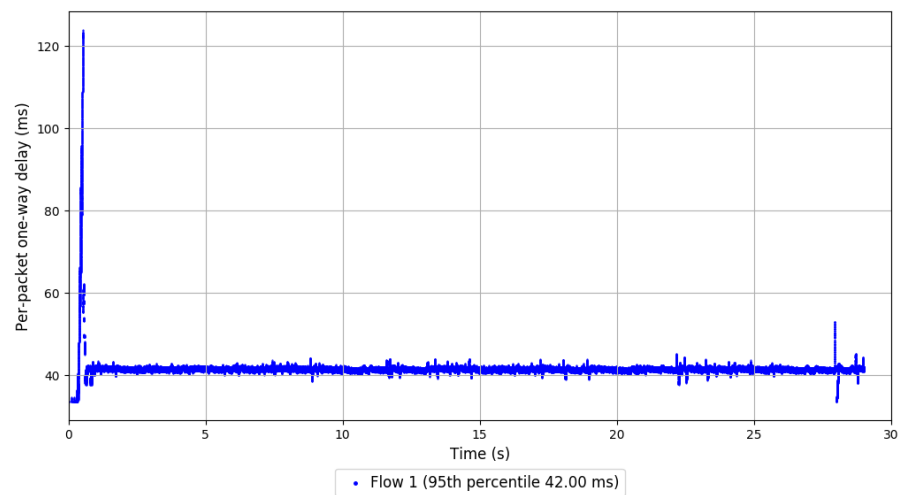
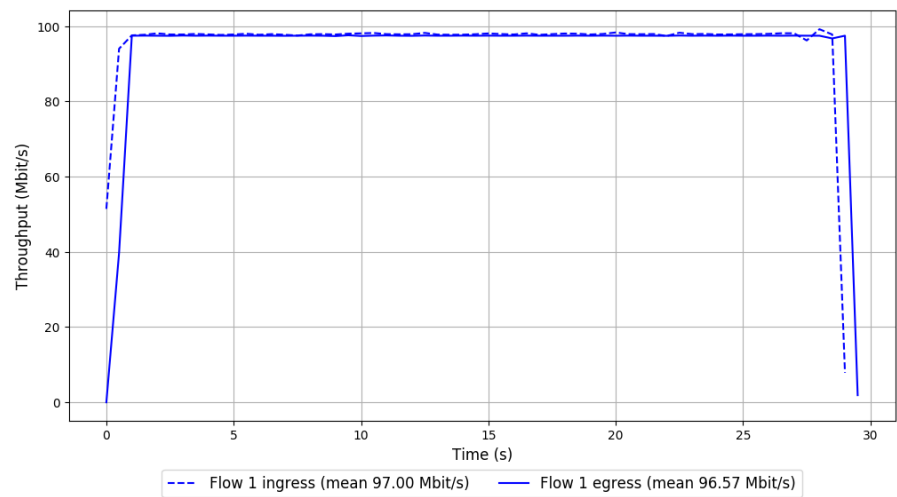
-- Flow 1:

Average throughput: 96.57 Mbit/s

95th percentile per-packet one-way delay: 41.999 ms

Loss rate: 0.67%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-03-09 08:07:52

End at: 2019-03-09 08:08:23

Local clock offset: 0.094 ms

Remote clock offset: 19.032 ms

Below is generated by plot.py at 2019-03-09 09:48:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.56 Mbit/s

95th percentile per-packet one-way delay: 22.343 ms

Loss rate: 0.91%

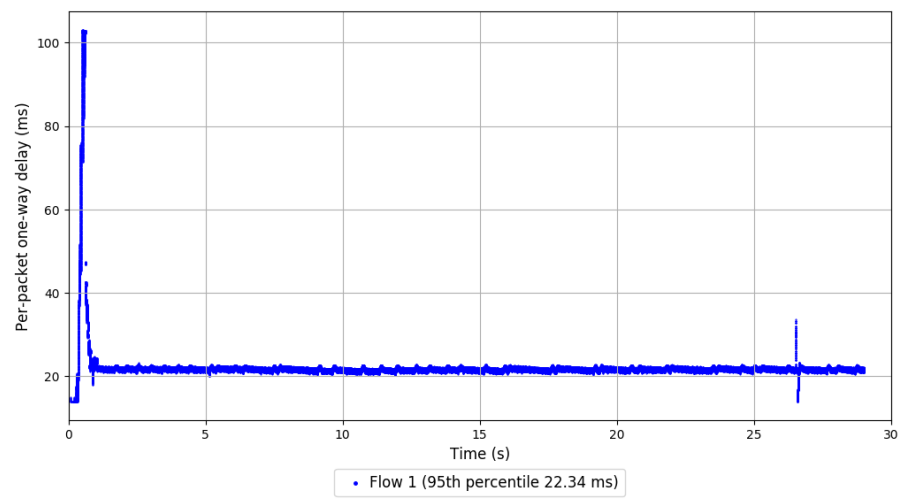
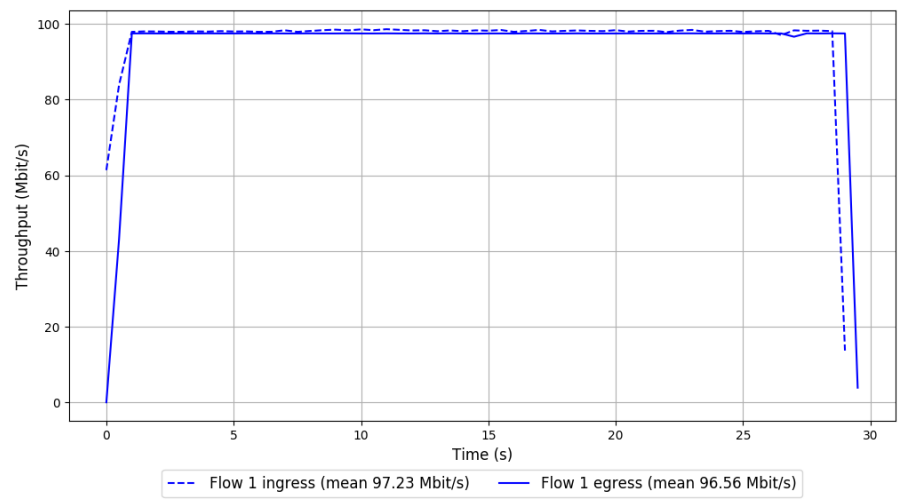
-- Flow 1:

Average throughput: 96.56 Mbit/s

95th percentile per-packet one-way delay: 22.343 ms

Loss rate: 0.91%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-03-09 08:32:25

End at: 2019-03-09 08:32:55

Local clock offset: 0.084 ms

Remote clock offset: 0.887 ms

Below is generated by plot.py at 2019-03-09 09:48:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.57 Mbit/s

95th percentile per-packet one-way delay: 47.601 ms

Loss rate: 1.02%

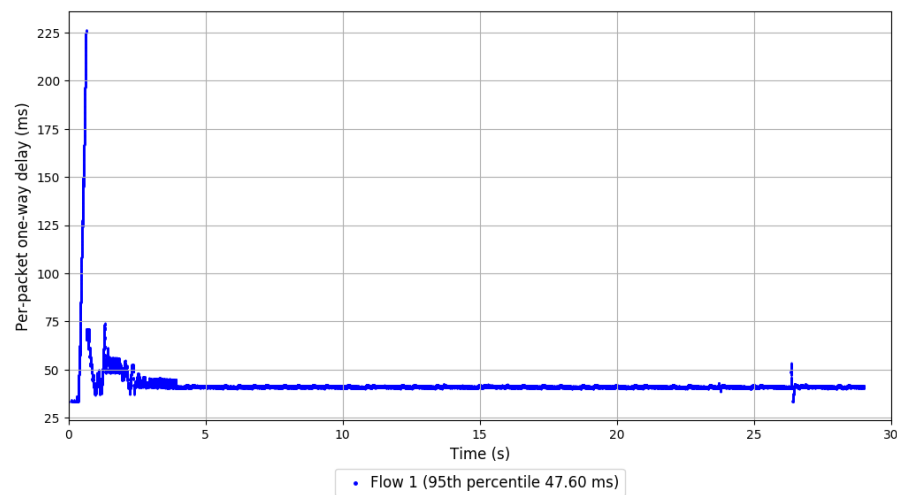
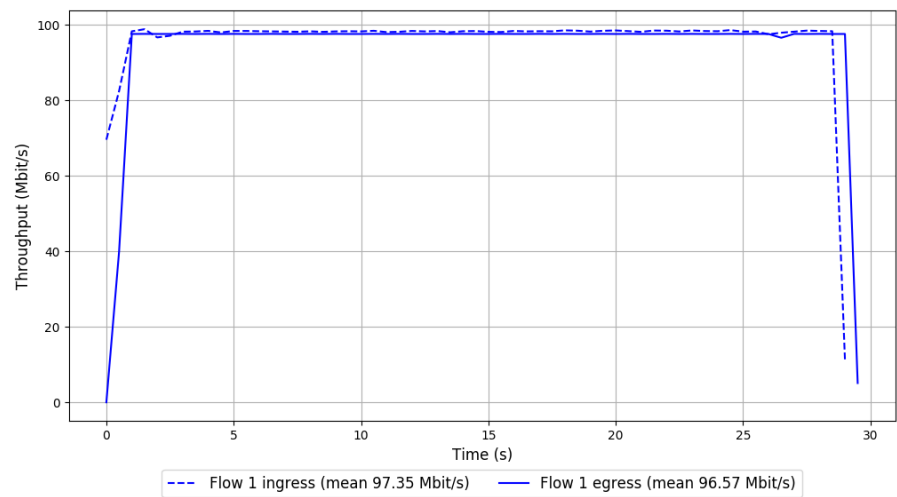
-- Flow 1:

Average throughput: 96.57 Mbit/s

95th percentile per-packet one-way delay: 47.601 ms

Loss rate: 1.02%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-03-09 08:56:58

End at: 2019-03-09 08:57:28

Local clock offset: 0.147 ms

Remote clock offset: 21.23 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.57 Mbit/s

95th percentile per-packet one-way delay: 22.165 ms

Loss rate: 0.87%

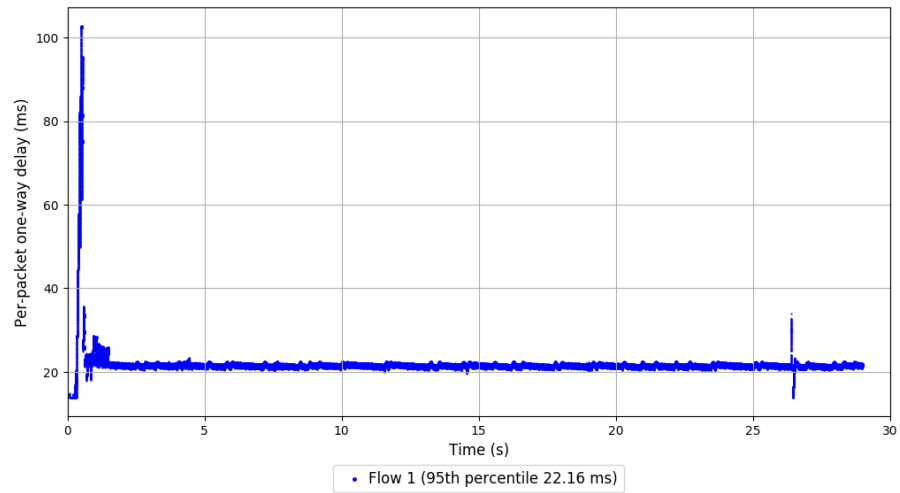
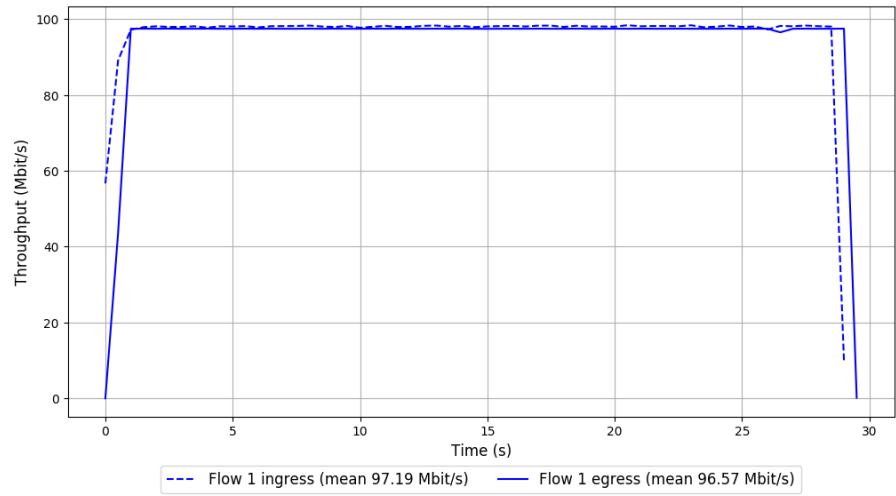
-- Flow 1:

Average throughput: 96.57 Mbit/s

95th percentile per-packet one-way delay: 22.165 ms

Loss rate: 0.87%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-03-09 09:21:30

End at: 2019-03-09 09:22:00

Local clock offset: 0.252 ms

Remote clock offset: 1.671 ms

Below is generated by plot.py at 2019-03-09 09:48:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.54 Mbit/s

95th percentile per-packet one-way delay: 47.510 ms

Loss rate: 1.50%

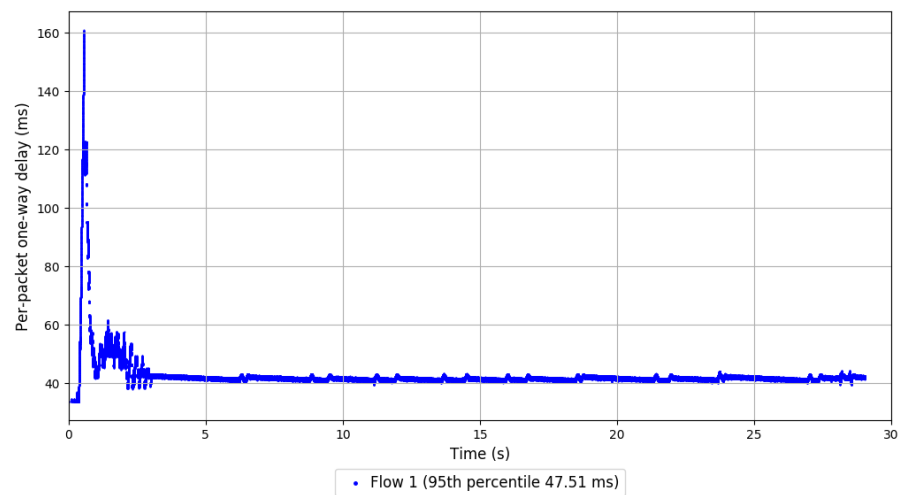
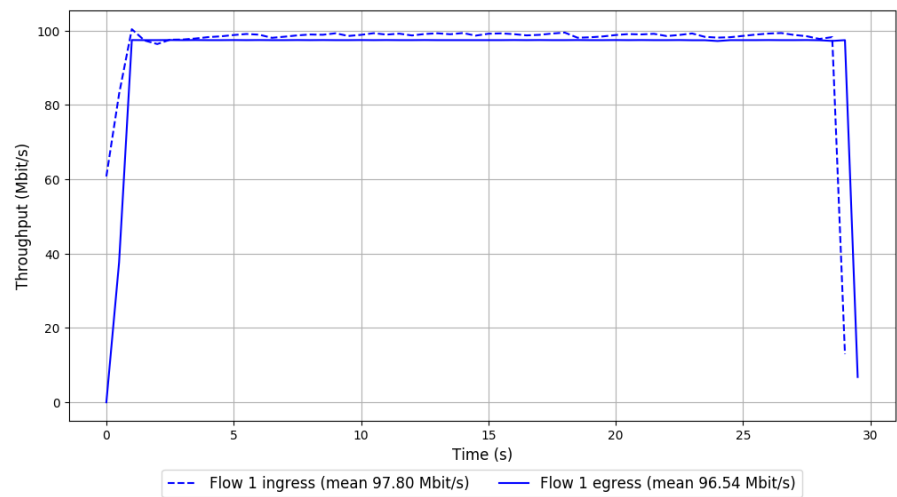
-- Flow 1:

Average throughput: 96.54 Mbit/s

95th percentile per-packet one-way delay: 47.510 ms

Loss rate: 1.50%

Run 5: Report of Indigo-MusesT — Data Link

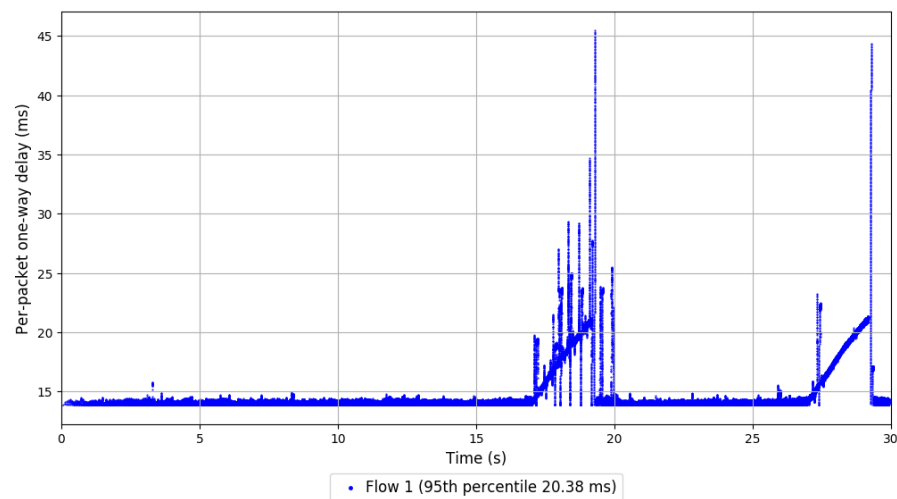
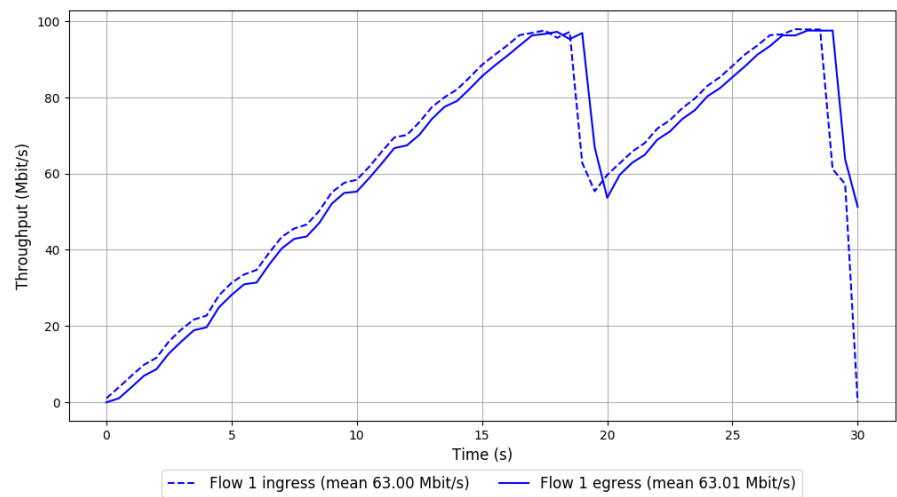


```
Run 1: Statistics of LEDBAT

Start at: 2019-03-09 07:49:03
End at: 2019-03-09 07:49:33
Local clock offset: 0.04 ms
Remote clock offset: 17.907 ms

# Below is generated by plot.py at 2019-03-09 09:48:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.01 Mbit/s
95th percentile per-packet one-way delay: 20.383 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 63.01 Mbit/s
95th percentile per-packet one-way delay: 20.383 ms
Loss rate: 0.20%
```

Run 1: Report of LEDBAT — Data Link

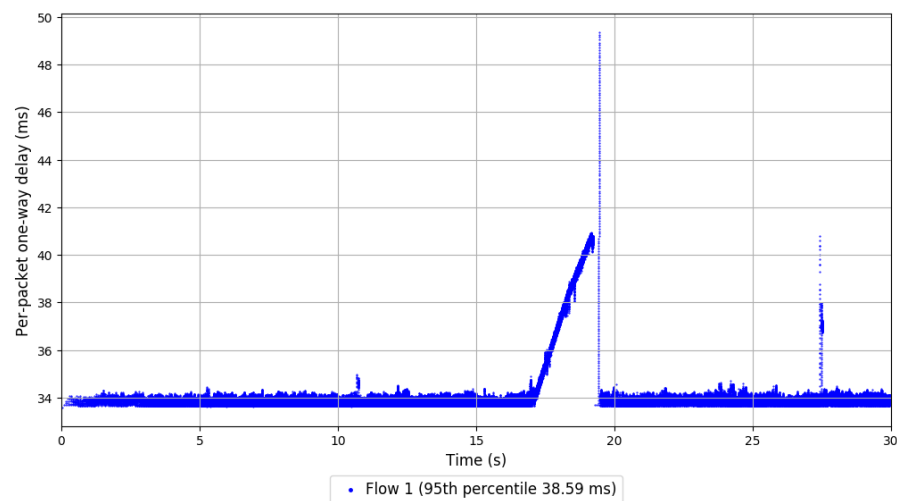
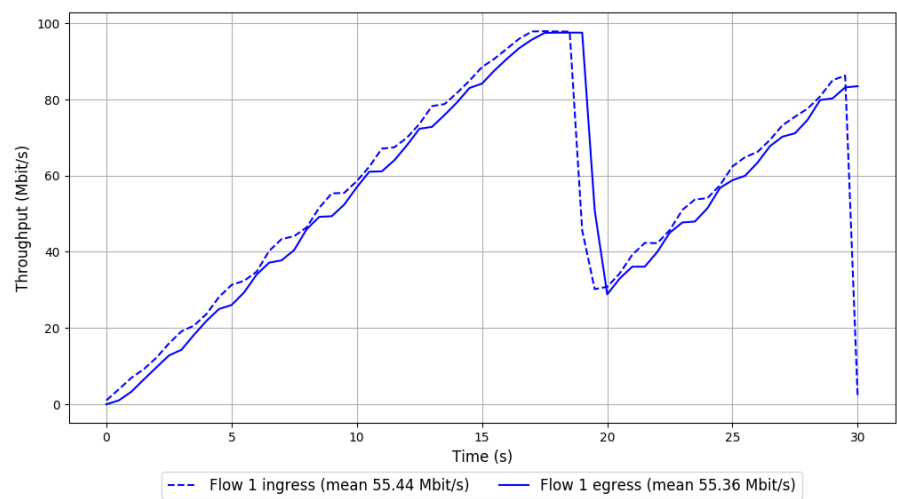


Run 2: Statistics of LEDBAT

Start at: 2019-03-09 08:13:47
End at: 2019-03-09 08:14:17
Local clock offset: 0.072 ms
Remote clock offset: -0.329 ms

Below is generated by plot.py at 2019-03-09 09:48:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 55.36 Mbit/s
95th percentile per-packet one-way delay: 38.585 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 55.36 Mbit/s
95th percentile per-packet one-way delay: 38.585 ms
Loss rate: 0.34%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-03-09 08:38:21

End at: 2019-03-09 08:38:51

Local clock offset: 0.09 ms

Remote clock offset: 0.785 ms

Below is generated by plot.py at 2019-03-09 09:48:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.23 Mbit/s

95th percentile per-packet one-way delay: 39.813 ms

Loss rate: 0.20%

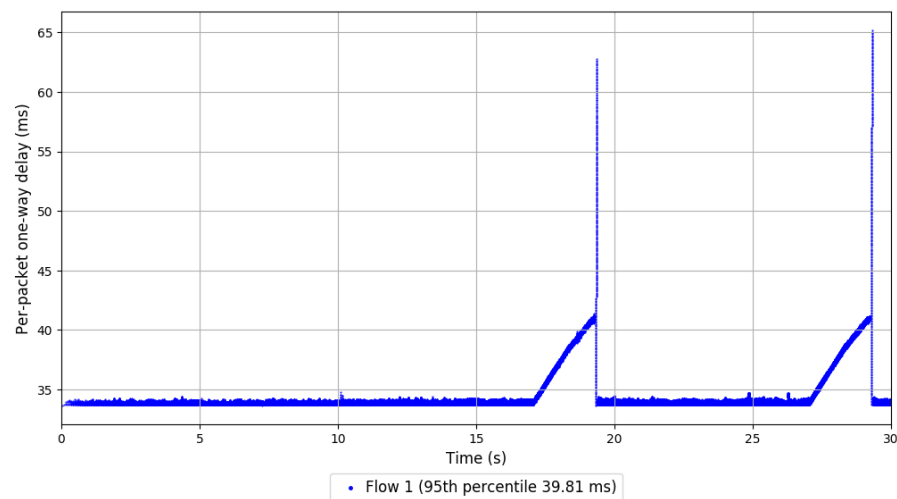
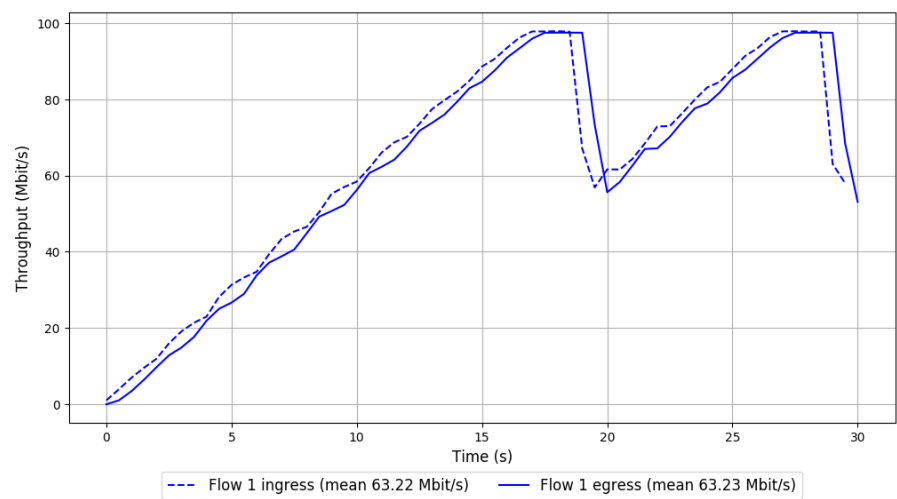
-- Flow 1:

Average throughput: 63.23 Mbit/s

95th percentile per-packet one-way delay: 39.813 ms

Loss rate: 0.20%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-03-09 09:02:53

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

Local clock offset: 0.183 ms

Remote clock offset: 1.678 ms

Below is generated by plot.py at 2019-03-09 09:49:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.25 Mbit/s

95th percentile per-packet one-way delay: 39.548 ms

Loss rate: 0.20%

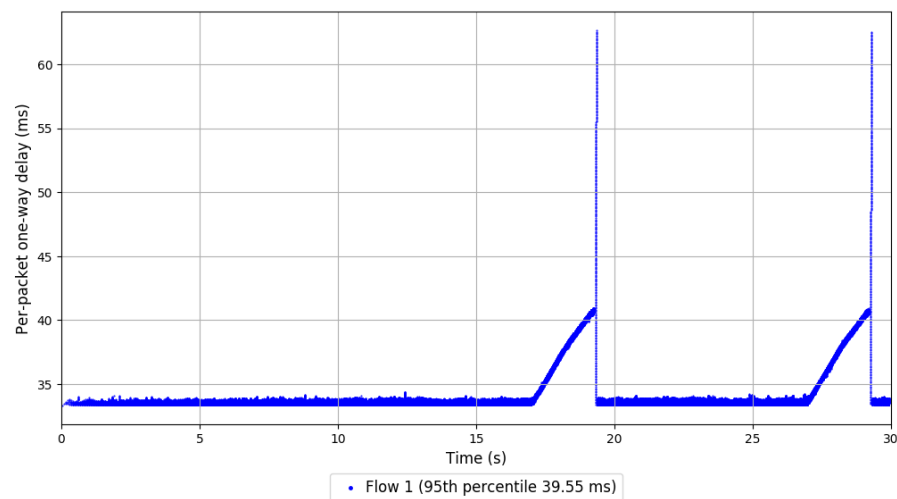
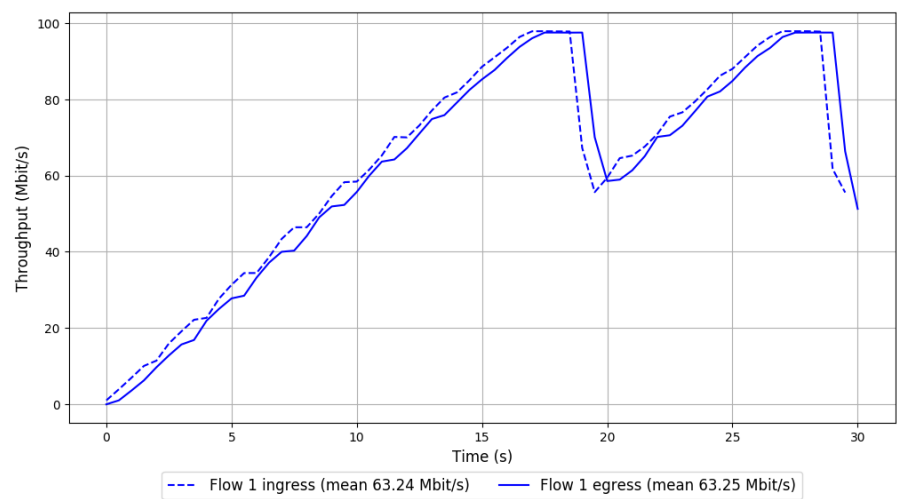
-- Flow 1:

Average throughput: 63.25 Mbit/s

95th percentile per-packet one-way delay: 39.548 ms

Loss rate: 0.20%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-03-09 09:27:29

End at: 2019-03-09 09:27:59

Local clock offset: 0.305 ms

Remote clock offset: 1.821 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.26 Mbit/s

95th percentile per-packet one-way delay: 39.483 ms

Loss rate: 0.20%

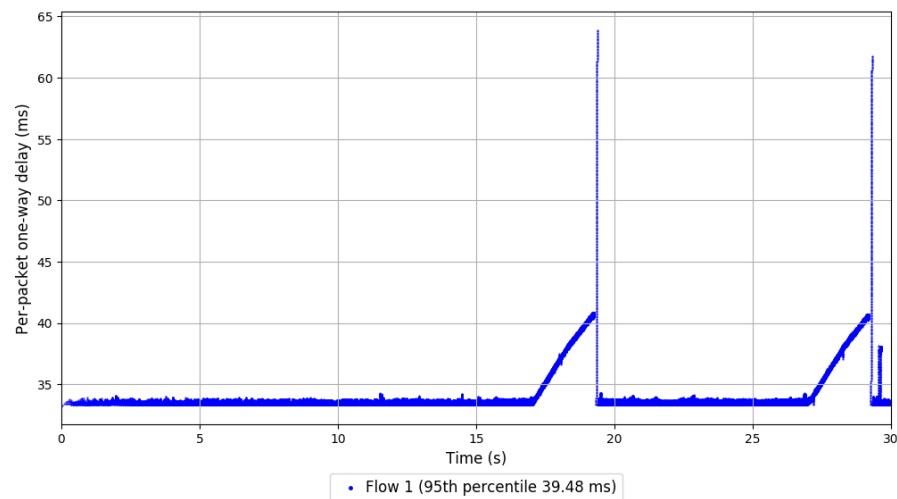
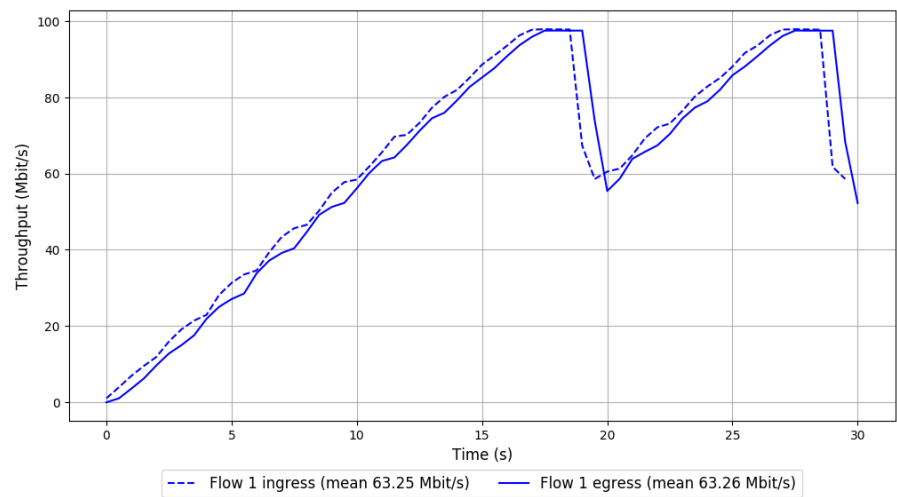
-- Flow 1:

Average throughput: 63.26 Mbit/s

95th percentile per-packet one-way delay: 39.483 ms

Loss rate: 0.20%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-03-09 07:55:03

End at: 2019-03-09 07:55:33

Local clock offset: 0.053 ms

Remote clock offset: -1.304 ms

Below is generated by plot.py at 2019-03-09 09:49:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.40 Mbit/s

95th percentile per-packet one-way delay: 38.685 ms

Loss rate: 0.24%

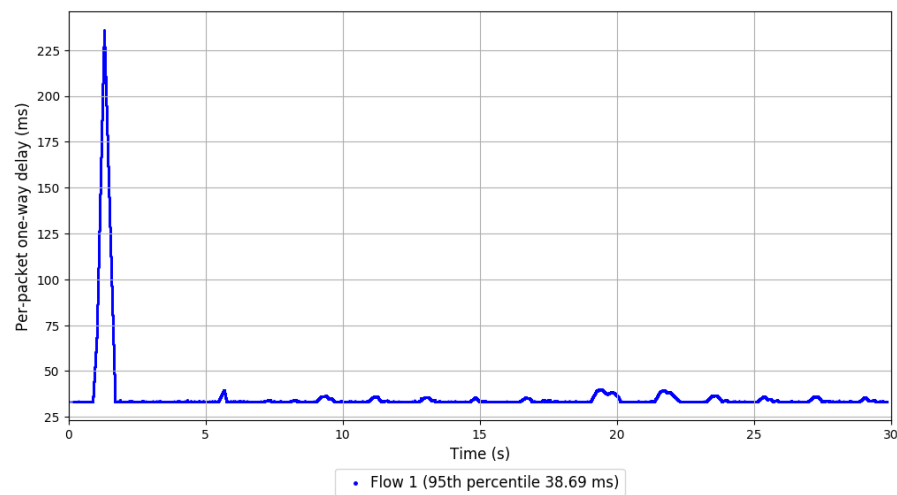
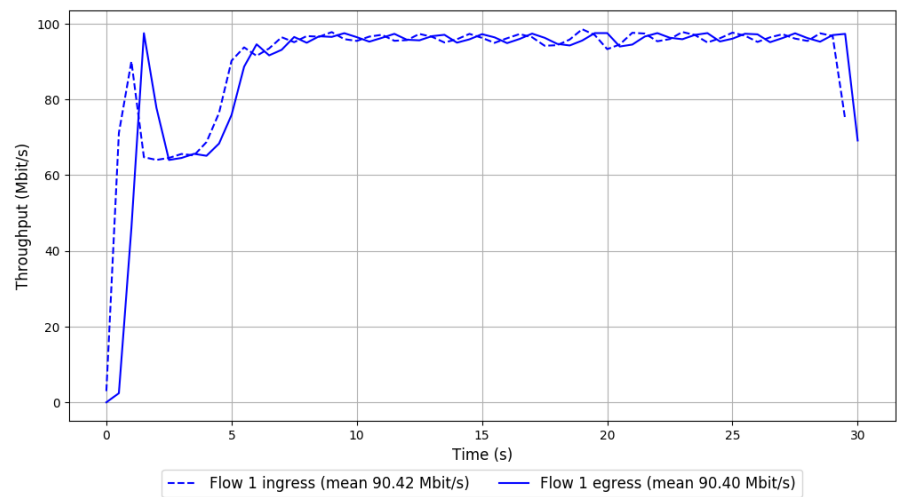
-- Flow 1:

Average throughput: 90.40 Mbit/s

95th percentile per-packet one-way delay: 38.685 ms

Loss rate: 0.24%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-03-09 08:19:38

End at: 2019-03-09 08:20:08

Local clock offset: 0.072 ms

Remote clock offset: 0.149 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.93 Mbit/s

95th percentile per-packet one-way delay: 39.564 ms

Loss rate: 0.23%

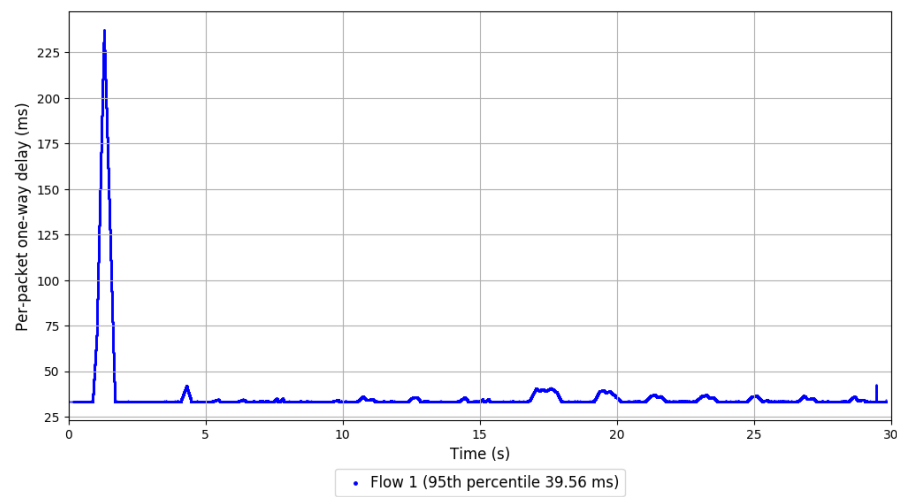
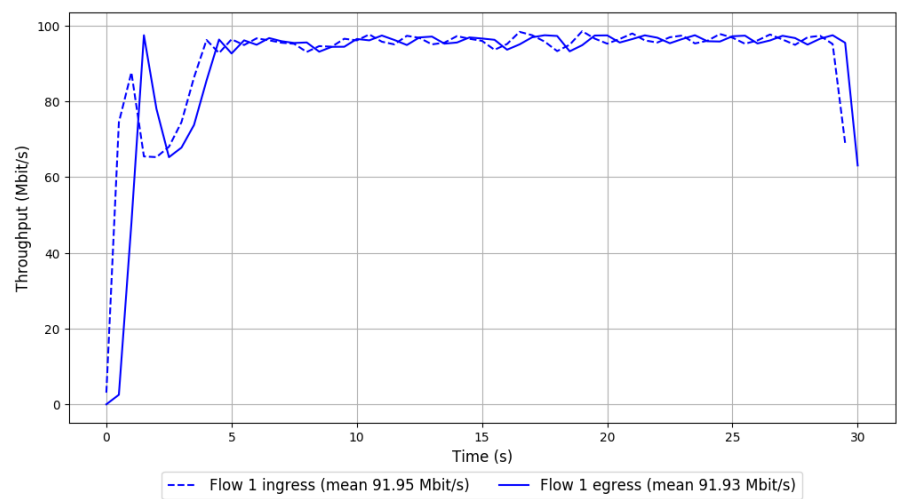
-- Flow 1:

Average throughput: 91.93 Mbit/s

95th percentile per-packet one-way delay: 39.564 ms

Loss rate: 0.23%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-03-09 08:44:13

End at: 2019-03-09 08:44:43

Local clock offset: 0.064 ms

Remote clock offset: 1.002 ms

Below is generated by plot.py at 2019-03-09 09:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.35 Mbit/s

95th percentile per-packet one-way delay: 39.162 ms

Loss rate: 0.24%

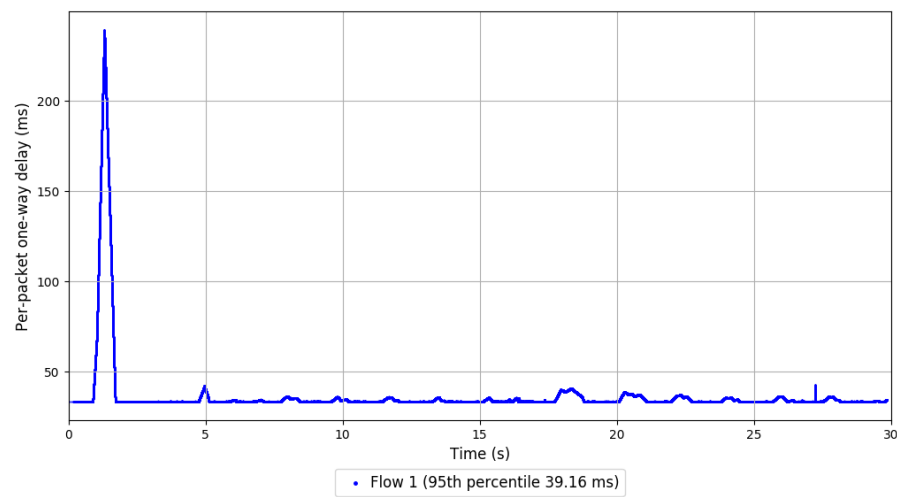
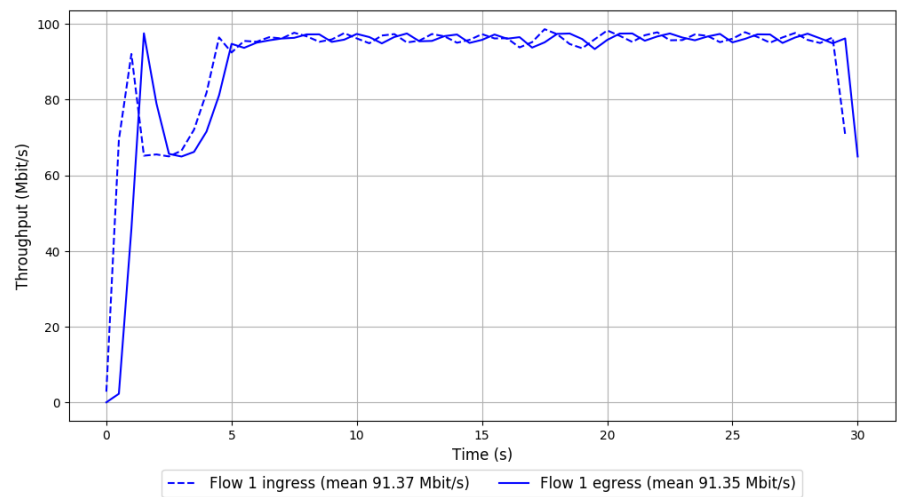
-- Flow 1:

Average throughput: 91.35 Mbit/s

95th percentile per-packet one-way delay: 39.162 ms

Loss rate: 0.24%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-03-09 09:08:44

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

Local clock offset: 0.188 ms

Remote clock offset: 1.822 ms

Below is generated by plot.py at 2019-03-09 09:49:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.87 Mbit/s

95th percentile per-packet one-way delay: 38.947 ms

Loss rate: 0.23%

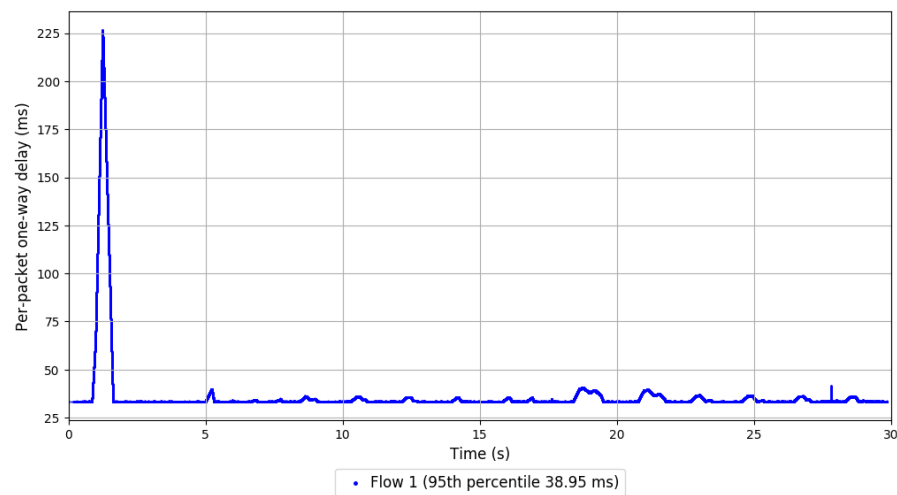
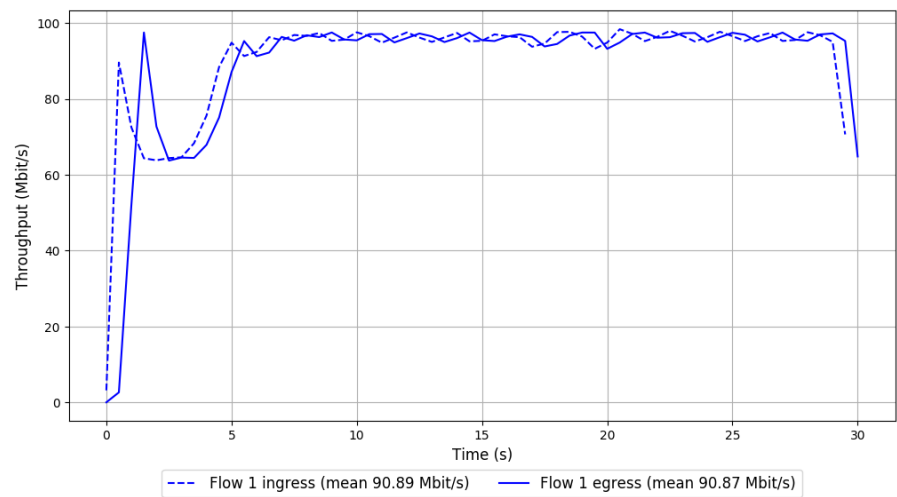
-- Flow 1:

Average throughput: 90.87 Mbit/s

95th percentile per-packet one-way delay: 38.947 ms

Loss rate: 0.23%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-03-09 09:33:24

End at: 2019-03-09 09:33:54

Local clock offset: 0.337 ms

Remote clock offset: 1.787 ms

Below is generated by plot.py at 2019-03-09 09:49:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.86 Mbit/s

95th percentile per-packet one-way delay: 38.832 ms

Loss rate: 0.24%

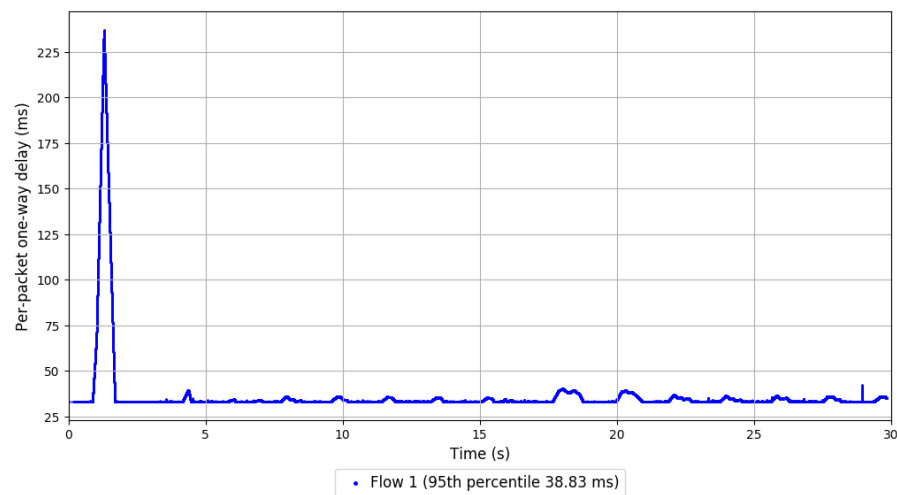
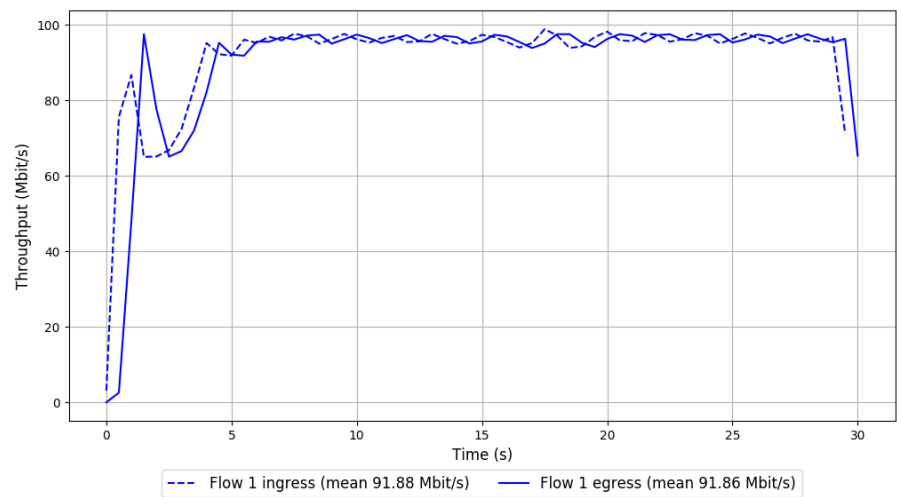
-- Flow 1:

Average throughput: 91.86 Mbit/s

95th percentile per-packet one-way delay: 38.832 ms

Loss rate: 0.24%

Run 5: Report of PCC-Allegro — Data Link

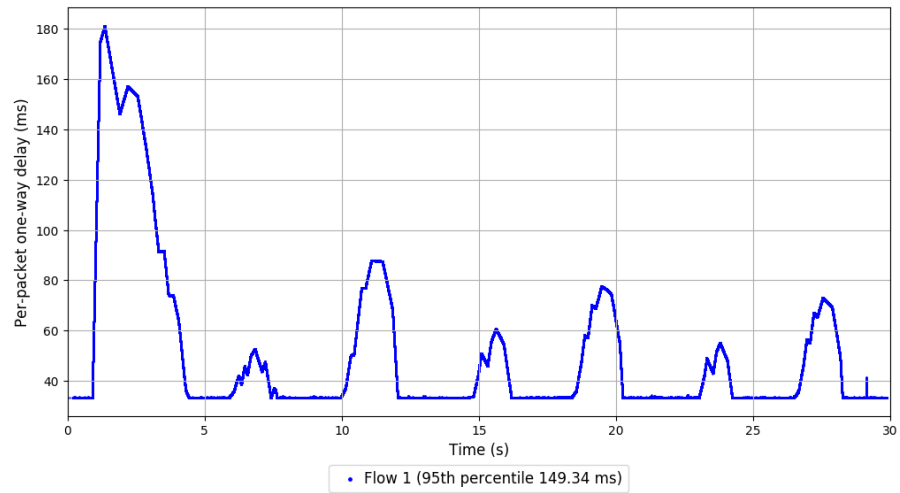
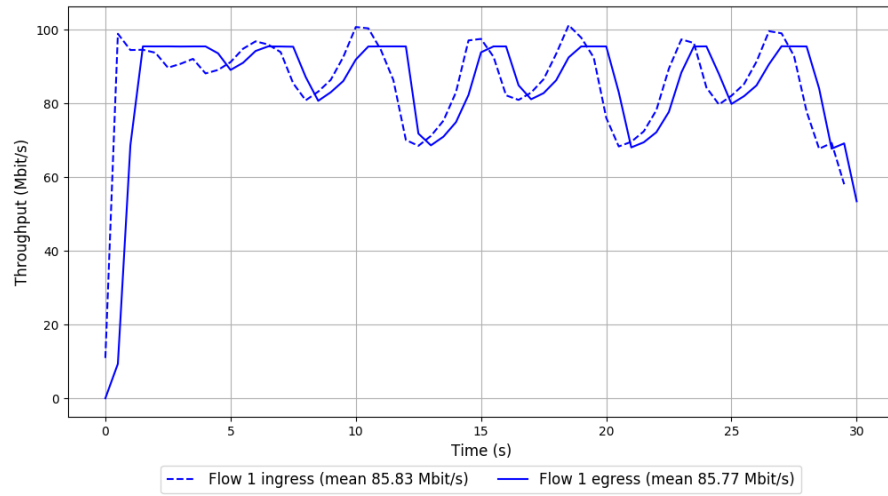


```
Run 1: Statistics of PCC-Expr

Start at: 2019-03-09 07:36:59
End at: 2019-03-09 07:37:29
Local clock offset: 0.012 ms
Remote clock offset: -2.257 ms

# Below is generated by plot.py at 2019-03-09 09:50:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.77 Mbit/s
95th percentile per-packet one-way delay: 149.345 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 85.77 Mbit/s
95th percentile per-packet one-way delay: 149.345 ms
Loss rate: 0.28%
```

Run 1: Report of PCC-Expr — Data Link

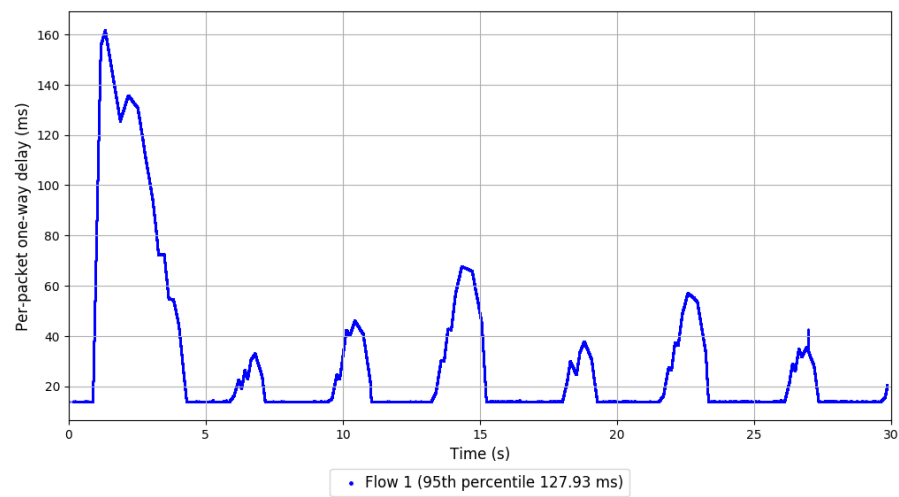
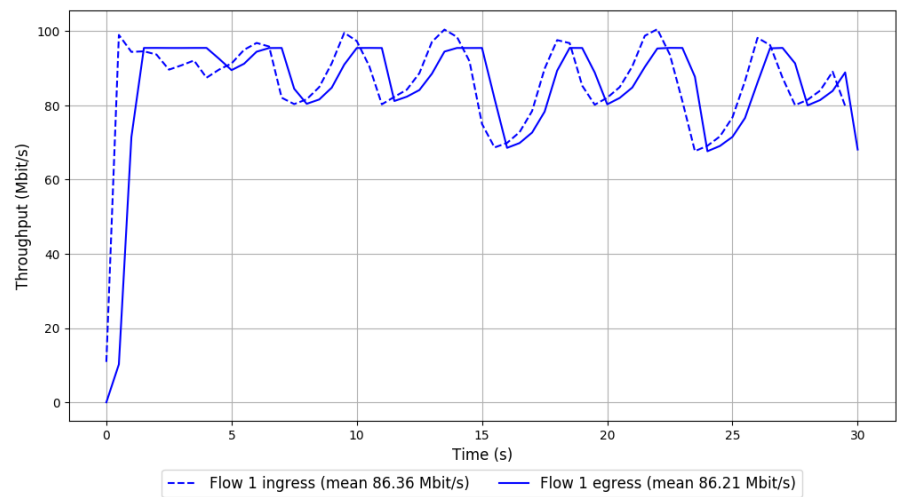


Run 2: Statistics of PCC-Expr

Start at: 2019-03-09 08:02:03
End at: 2019-03-09 08:02:33
Local clock offset: 0.06 ms
Remote clock offset: 18.721 ms

Below is generated by plot.py at 2019-03-09 09:50:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.21 Mbit/s
95th percentile per-packet one-way delay: 127.931 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 86.21 Mbit/s
95th percentile per-packet one-way delay: 127.931 ms
Loss rate: 0.39%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-03-09 08:26:35

End at: 2019-03-09 08:27:05

Local clock offset: 0.087 ms

Remote clock offset: 0.624 ms

Below is generated by plot.py at 2019-03-09 09:51:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.97 Mbit/s

95th percentile per-packet one-way delay: 152.872 ms

Loss rate: 0.40%

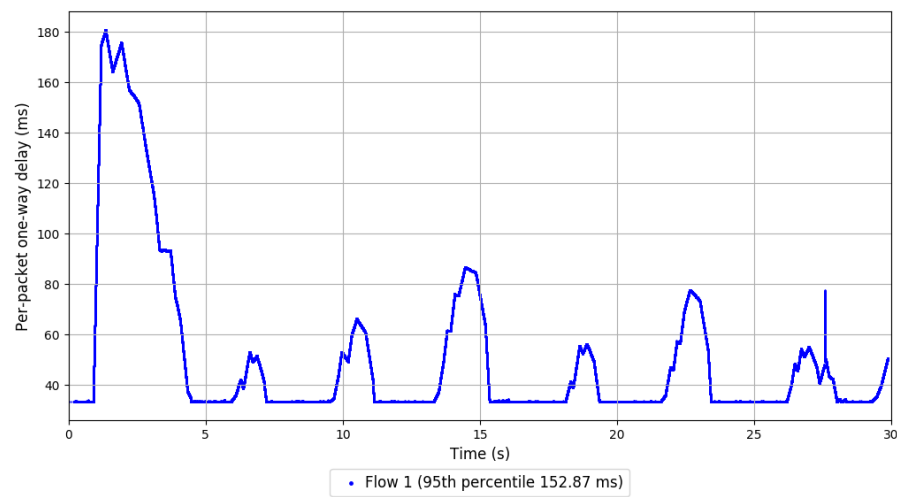
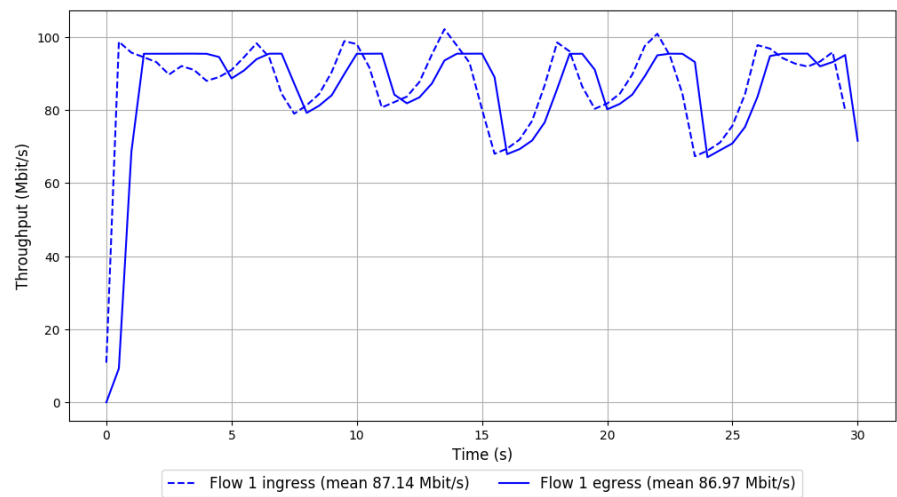
-- Flow 1:

Average throughput: 86.97 Mbit/s

95th percentile per-packet one-way delay: 152.872 ms

Loss rate: 0.40%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-03-09 08:51:10

End at: 2019-03-09 08:51:40

Local clock offset: 0.106 ms

Remote clock offset: 1.296 ms

Below is generated by plot.py at 2019-03-09 09:51:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.89 Mbit/s

95th percentile per-packet one-way delay: 165.570 ms

Loss rate: 0.28%

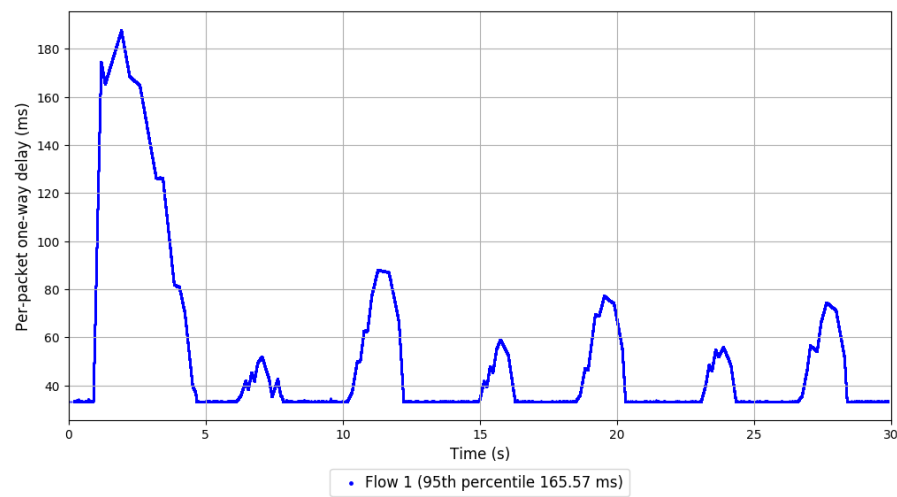
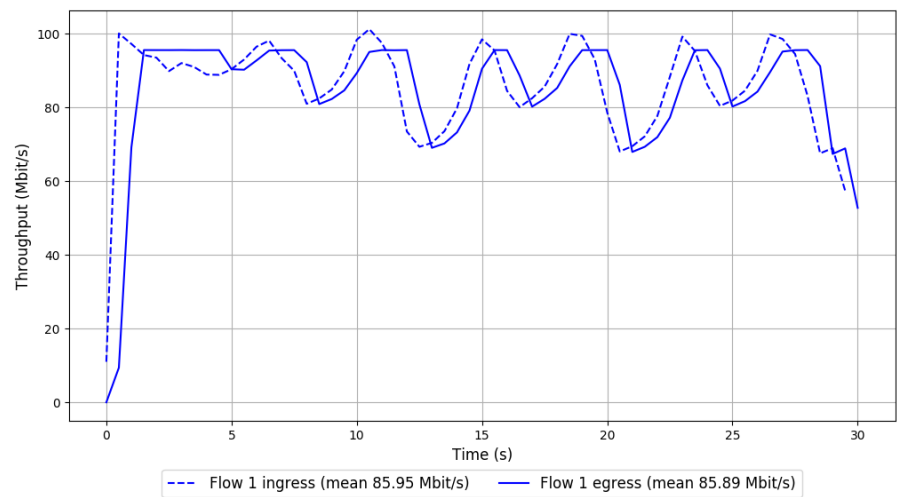
-- Flow 1:

Average throughput: 85.89 Mbit/s

95th percentile per-packet one-way delay: 165.570 ms

Loss rate: 0.28%

Run 4: Report of PCC-Expr — Data Link

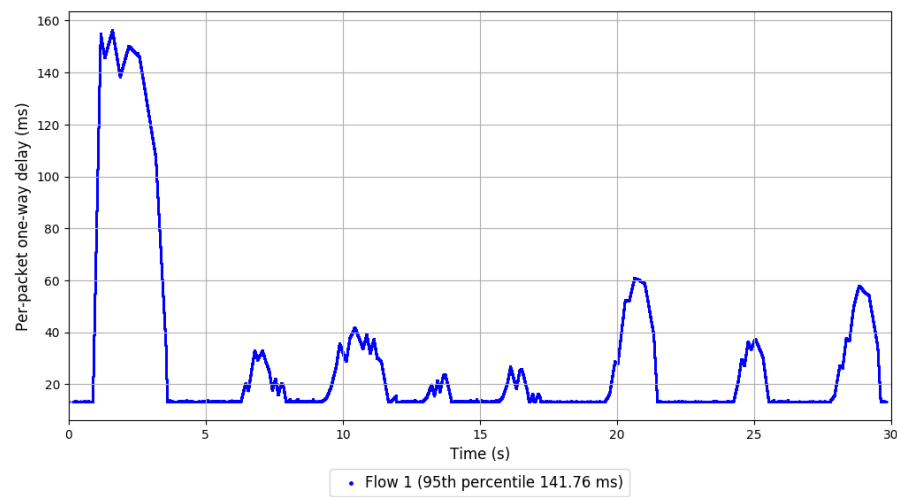
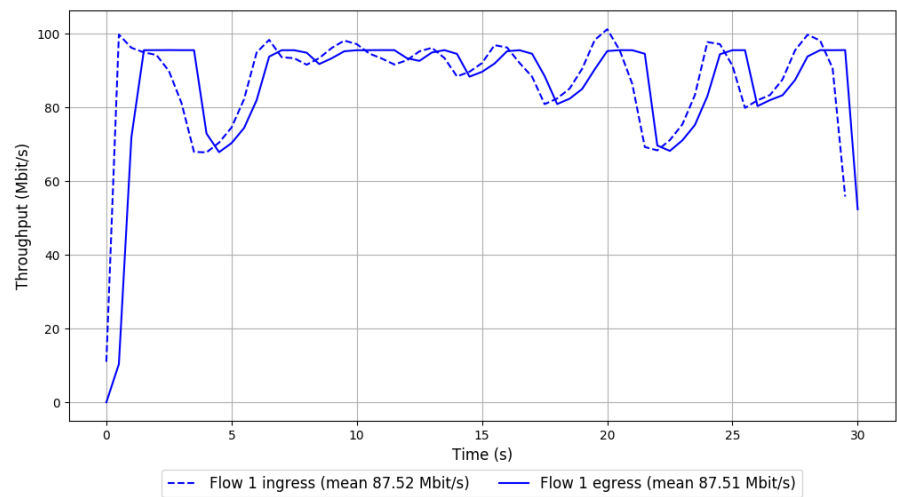


Run 5: Statistics of PCC-Expr

Start at: 2019-03-09 09:15:41
End at: 2019-03-09 09:16:11
Local clock offset: 0.186 ms
Remote clock offset: 21.911 ms

Below is generated by plot.py at 2019-03-09 09:51:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.51 Mbit/s
95th percentile per-packet one-way delay: 141.757 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 87.51 Mbit/s
95th percentile per-packet one-way delay: 141.757 ms
Loss rate: 0.22%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-03-09 07:40:30

End at: 2019-03-09 07:41:00

Local clock offset: -0.003 ms

Remote clock offset: -2.117 ms

Below is generated by plot.py at 2019-03-09 09:51:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.98 Mbit/s

95th percentile per-packet one-way delay: 50.235 ms

Loss rate: 0.45%

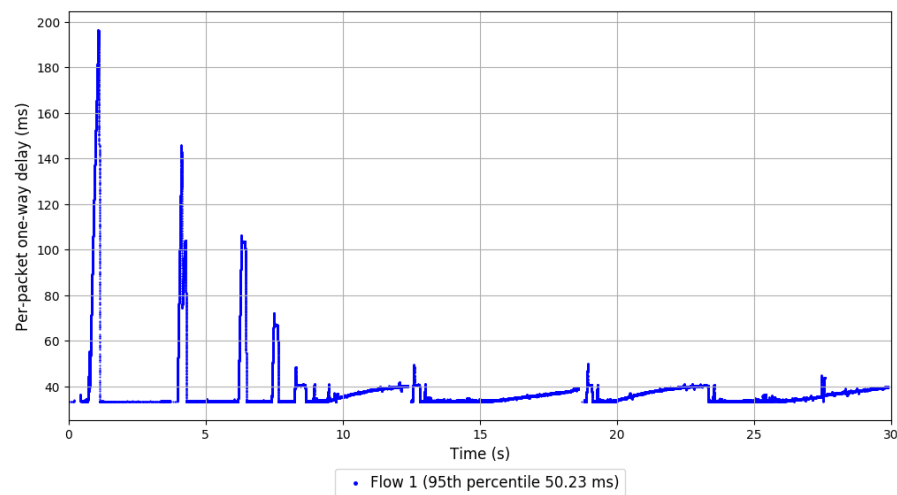
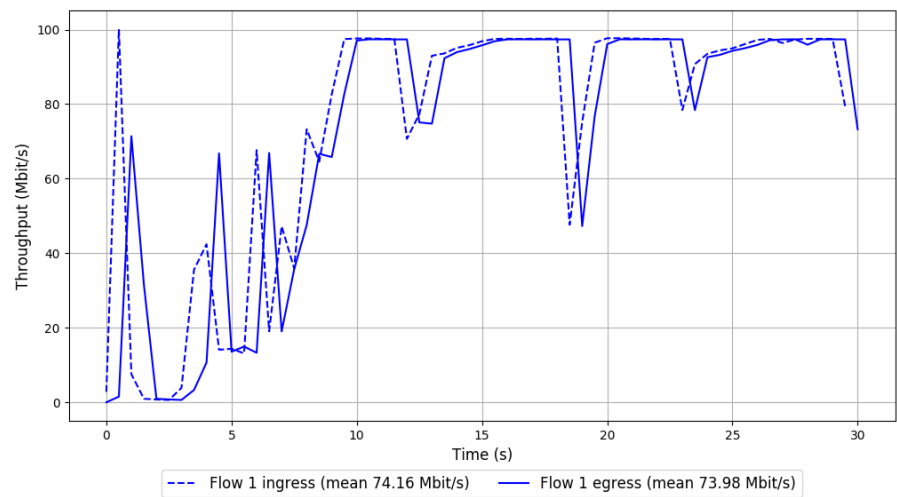
-- Flow 1:

Average throughput: 73.98 Mbit/s

95th percentile per-packet one-way delay: 50.235 ms

Loss rate: 0.45%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-03-09 08:05:33

End at: 2019-03-09 08:06:03

Local clock offset: 0.079 ms

Remote clock offset: -0.608 ms

Below is generated by plot.py at 2019-03-09 09:51:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.12 Mbit/s

95th percentile per-packet one-way delay: 40.556 ms

Loss rate: 0.27%

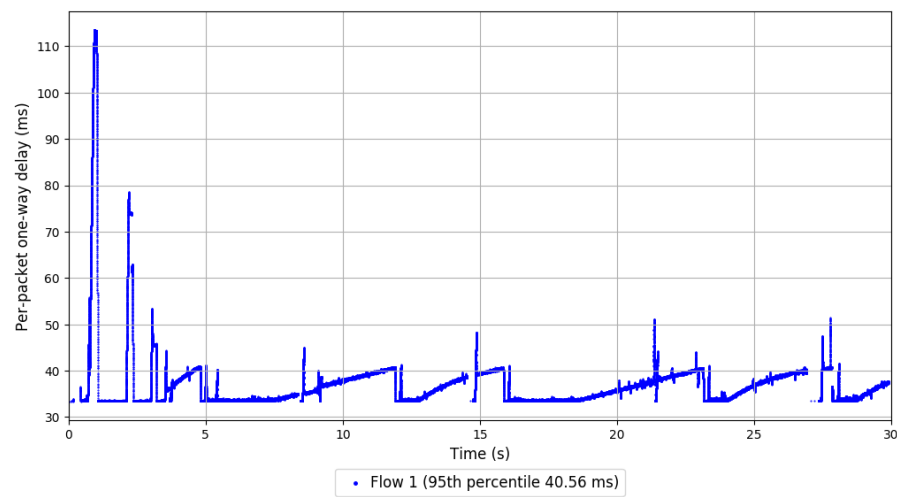
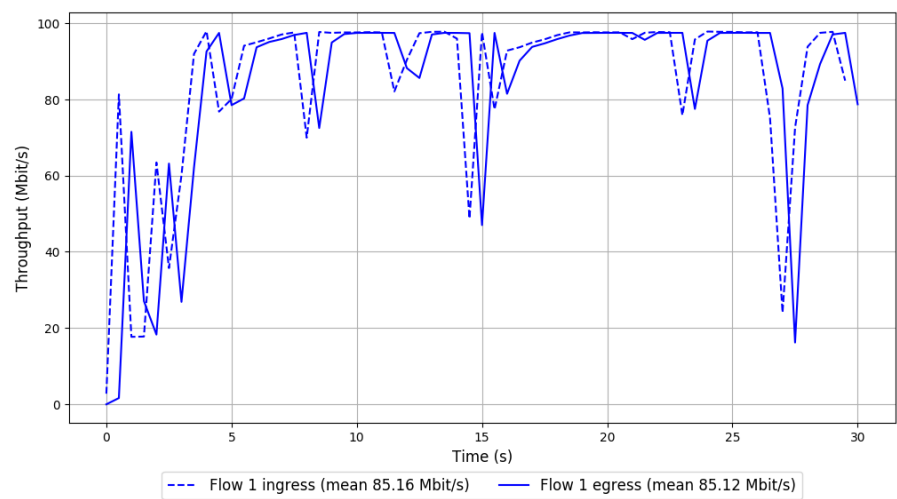
-- Flow 1:

Average throughput: 85.12 Mbit/s

95th percentile per-packet one-way delay: 40.556 ms

Loss rate: 0.27%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-03-09 08:30:05

End at: 2019-03-09 08:30:35

Local clock offset: 0.103 ms

Remote clock offset: 0.736 ms

Below is generated by plot.py at 2019-03-09 09:51:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.05 Mbit/s

95th percentile per-packet one-way delay: 49.110 ms

Loss rate: 0.30%

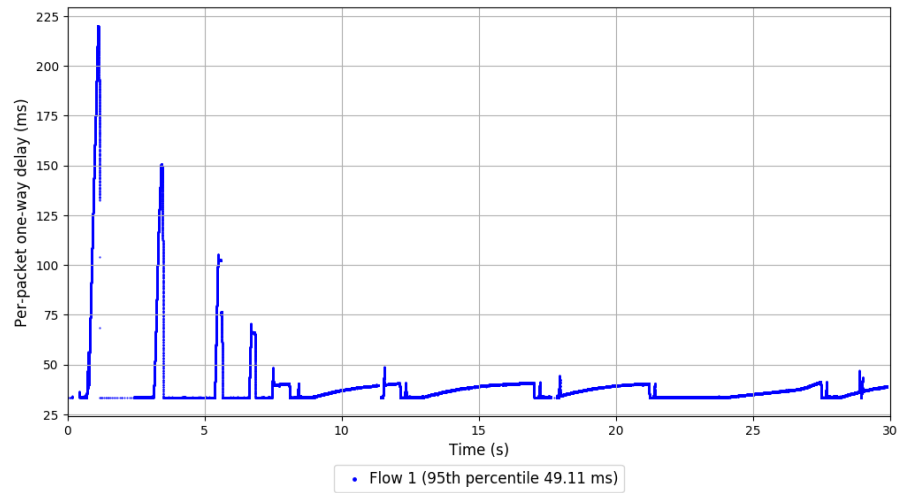
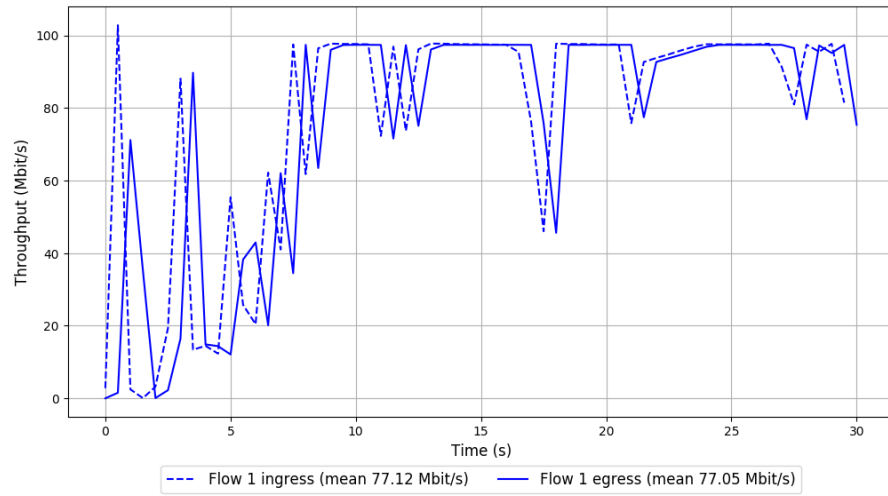
-- Flow 1:

Average throughput: 77.05 Mbit/s

95th percentile per-packet one-way delay: 49.110 ms

Loss rate: 0.30%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-03-09 08:54:39

End at: 2019-03-09 08:55:09

Local clock offset: 0.136 ms

Remote clock offset: 1.438 ms

Below is generated by plot.py at 2019-03-09 09:51:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.02 Mbit/s

95th percentile per-packet one-way delay: 51.905 ms

Loss rate: 0.37%

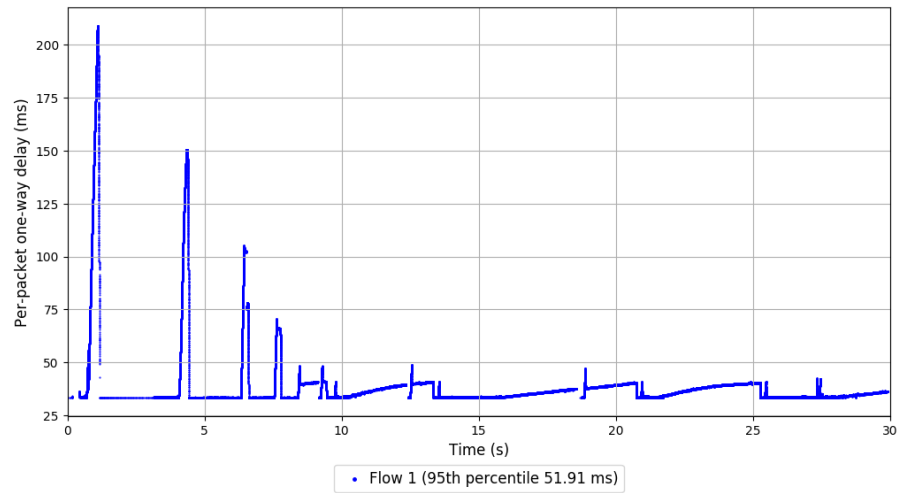
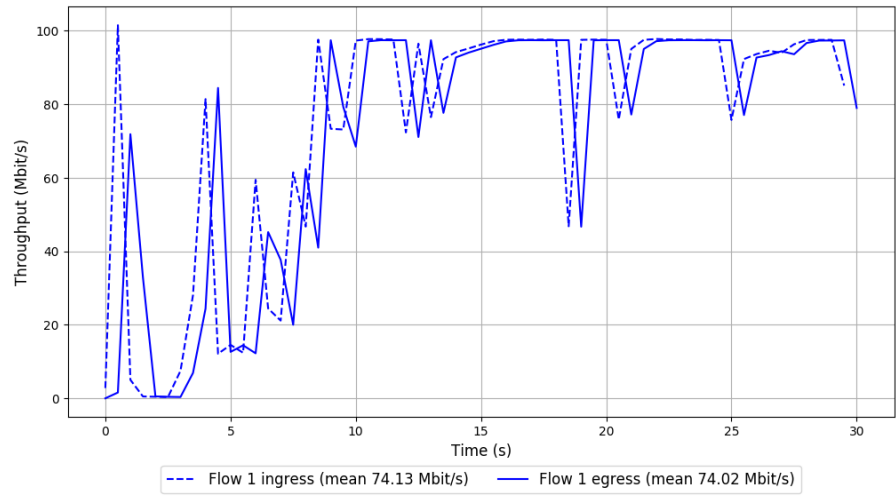
-- Flow 1:

Average throughput: 74.02 Mbit/s

95th percentile per-packet one-way delay: 51.905 ms

Loss rate: 0.37%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

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

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

Local clock offset: 0.235 ms

Remote clock offset: 1.762 ms

Below is generated by plot.py at 2019-03-09 09:51:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.90 Mbit/s

95th percentile per-packet one-way delay: 49.888 ms

Loss rate: 0.31%

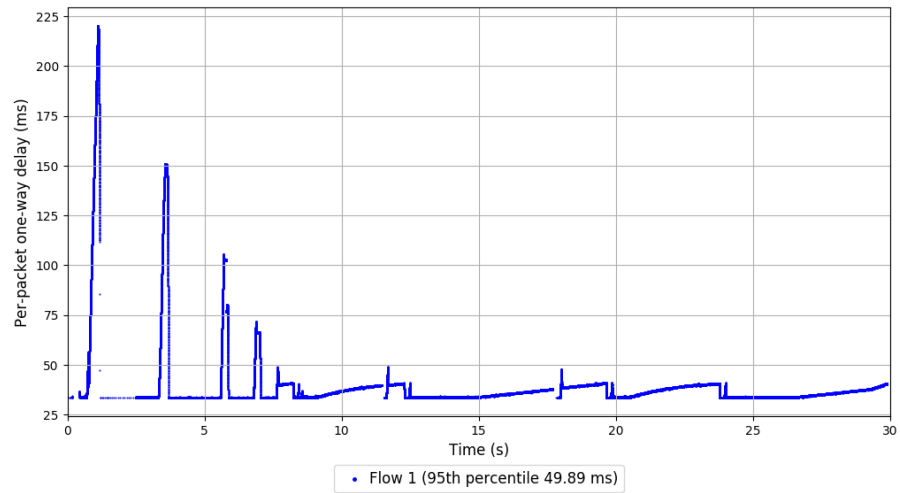
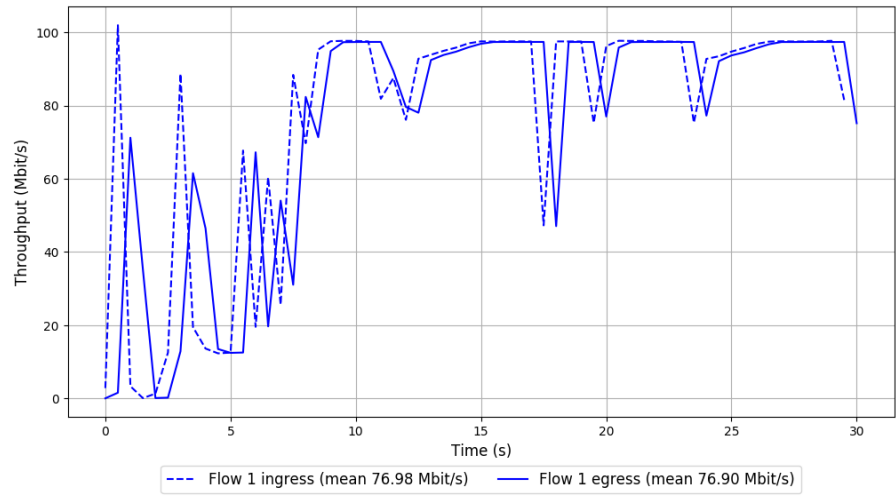
-- Flow 1:

Average throughput: 76.90 Mbit/s

95th percentile per-packet one-way delay: 49.888 ms

Loss rate: 0.31%

Run 5: Report of QUIC Cubic — Data Link

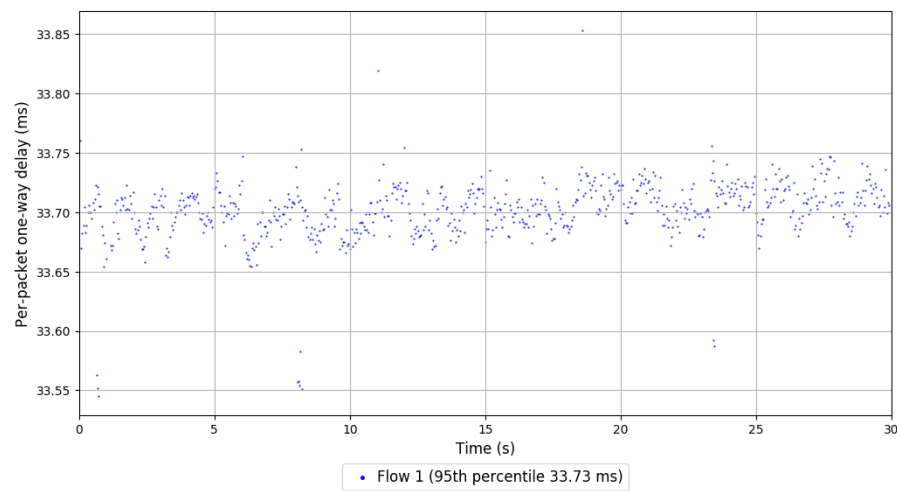
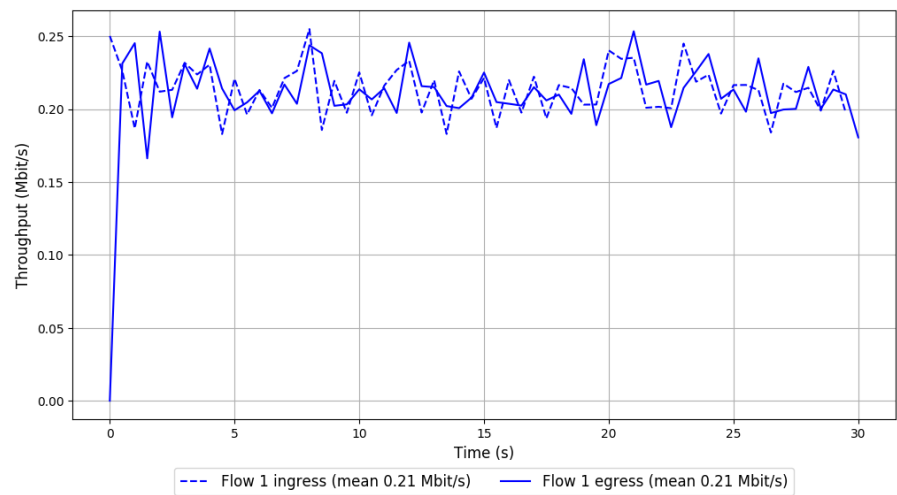


```
Run 1: Statistics of SCReAM

Start at: 2019-03-09 07:58:37
End at: 2019-03-09 07:59:07
Local clock offset: 0.042 ms
Remote clock offset: -1.31 ms

# Below is generated by plot.py at 2019-03-09 09:51:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.732 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.732 ms
Loss rate: 0.26%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-03-09 08:23:09

End at: 2019-03-09 08:23:39

Local clock offset: 0.092 ms

Remote clock offset: 0.462 ms

Below is generated by plot.py at 2019-03-09 09:51:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 33.500 ms

Loss rate: 0.13%

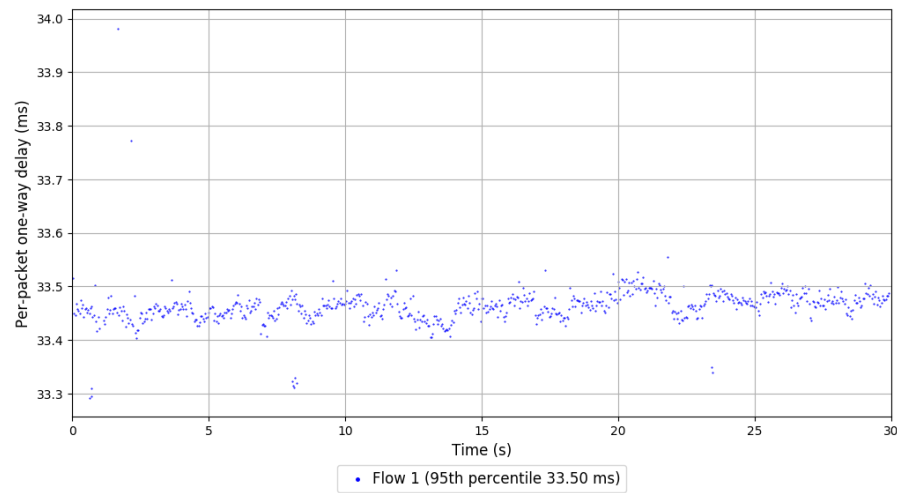
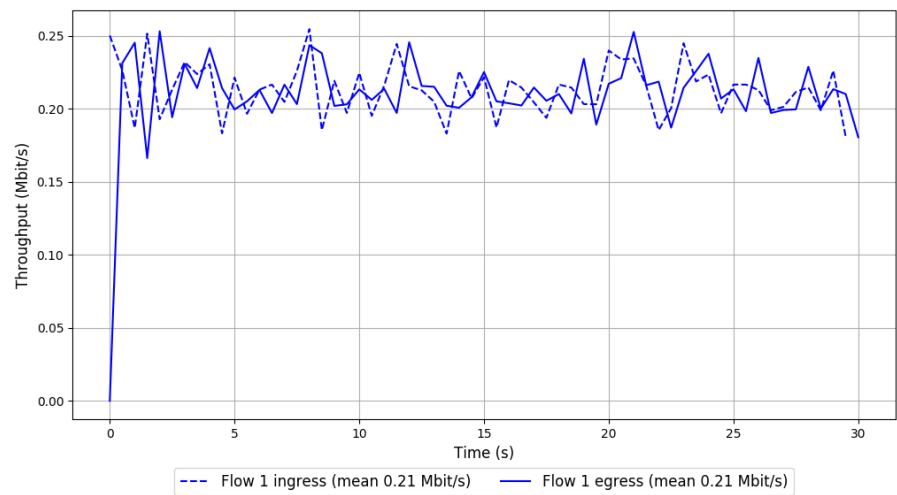
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 33.500 ms

Loss rate: 0.13%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-03-09 08:47:44

End at: 2019-03-09 08:48:14

Local clock offset: 0.104 ms

Remote clock offset: 1.288 ms

Below is generated by plot.py at 2019-03-09 09:51:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 33.482 ms

Loss rate: 0.26%

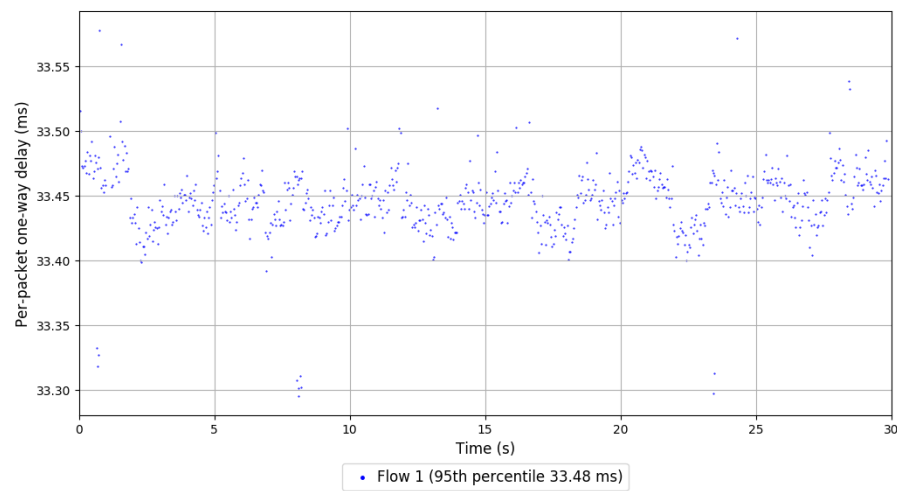
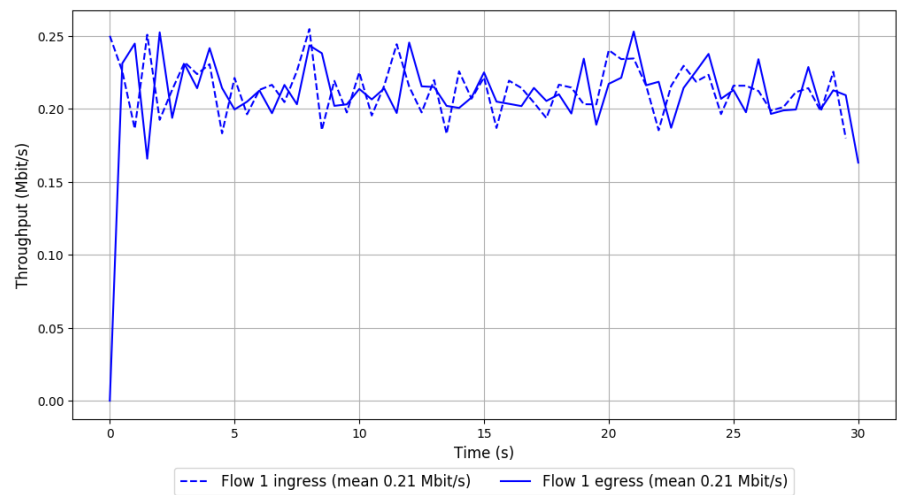
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 33.482 ms

Loss rate: 0.26%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-03-09 09:12:15

End at: 2019-03-09 09:12:45

Local clock offset: 0.227 ms

Remote clock offset: 1.743 ms

Below is generated by plot.py at 2019-03-09 09:51:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 33.655 ms

Loss rate: 0.26%

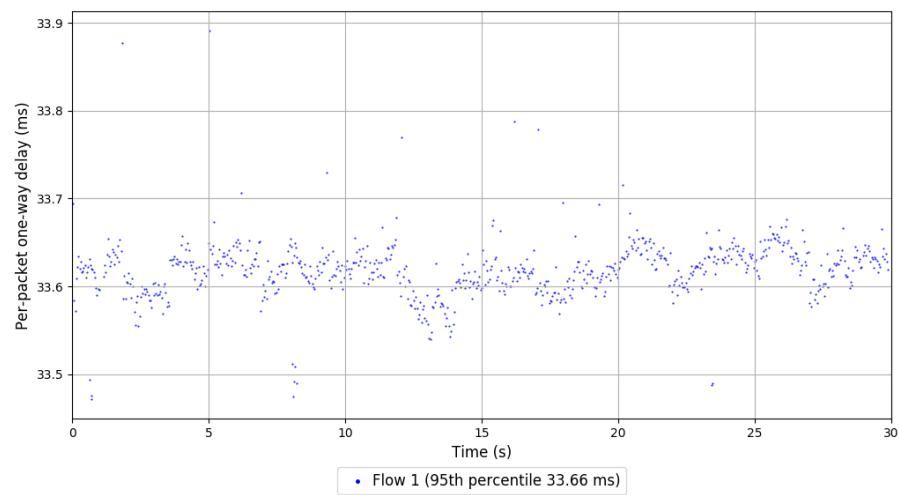
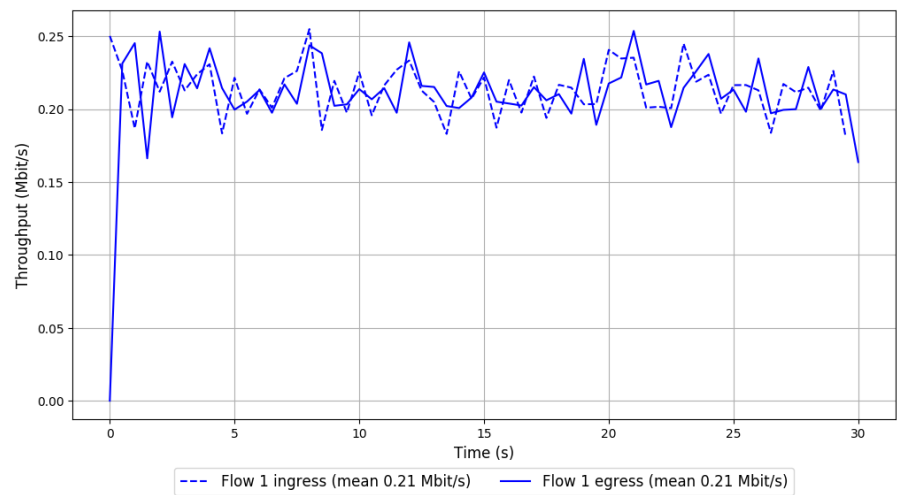
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 33.655 ms

Loss rate: 0.26%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-03-09 09:36:56

End at: 2019-03-09 09:37:26

Local clock offset: 0.385 ms

Remote clock offset: 1.819 ms

Below is generated by plot.py at 2019-03-09 09:51:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 33.460 ms

Loss rate: 0.26%

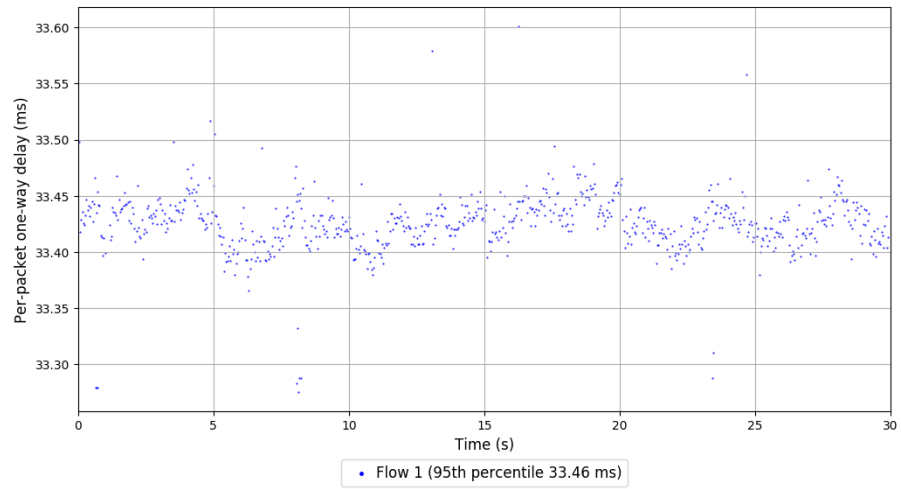
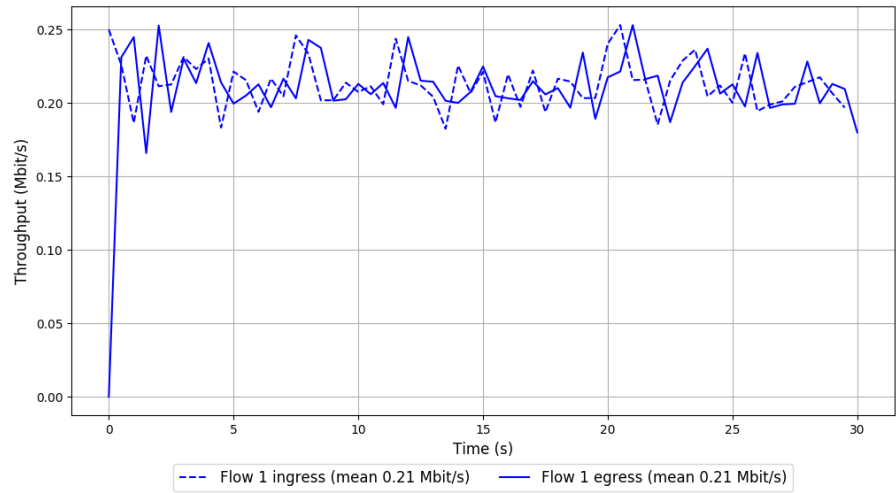
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 33.460 ms

Loss rate: 0.26%

Run 5: Report of SReAM — Data Link

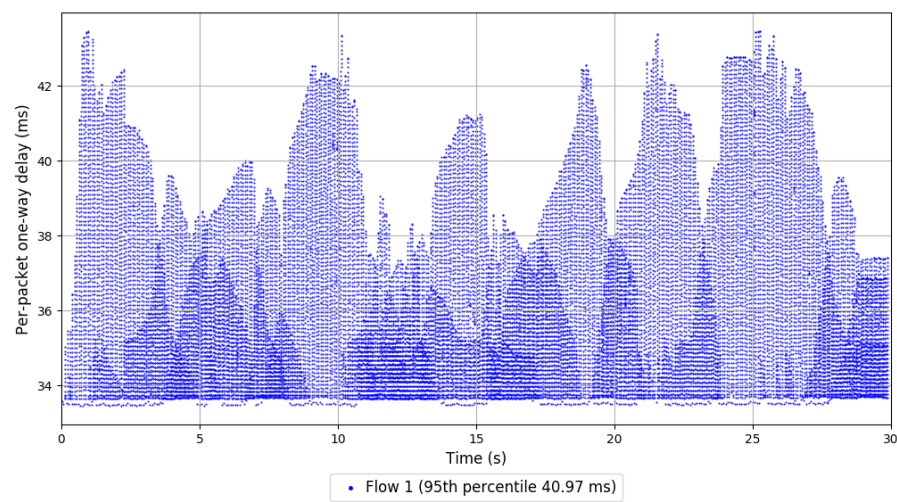
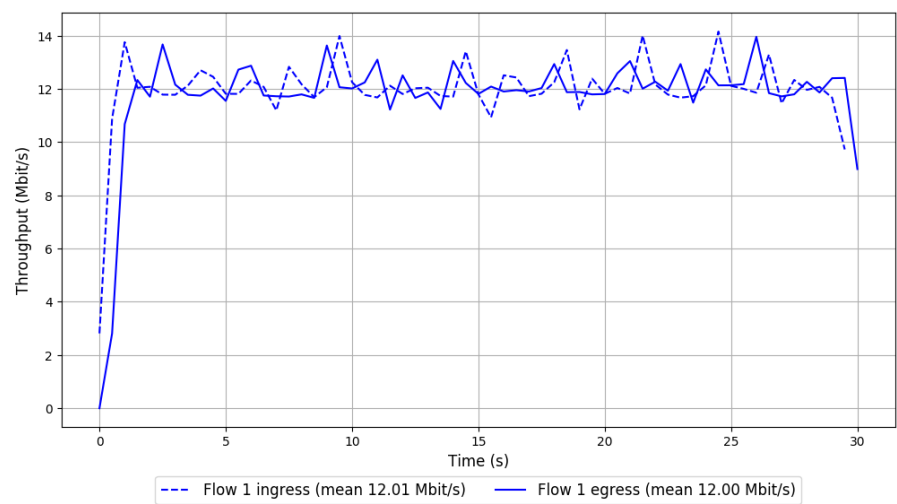


Run 1: Statistics of Sprout

Start at: 2019-03-09 07:38:13
End at: 2019-03-09 07:38:43
Local clock offset: 0.003 ms
Remote clock offset: -2.377 ms

Below is generated by plot.py at 2019-03-09 09:51:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.00 Mbit/s
95th percentile per-packet one-way delay: 40.965 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 12.00 Mbit/s
95th percentile per-packet one-way delay: 40.965 ms
Loss rate: 0.15%

Run 1: Report of Sprout — Data Link

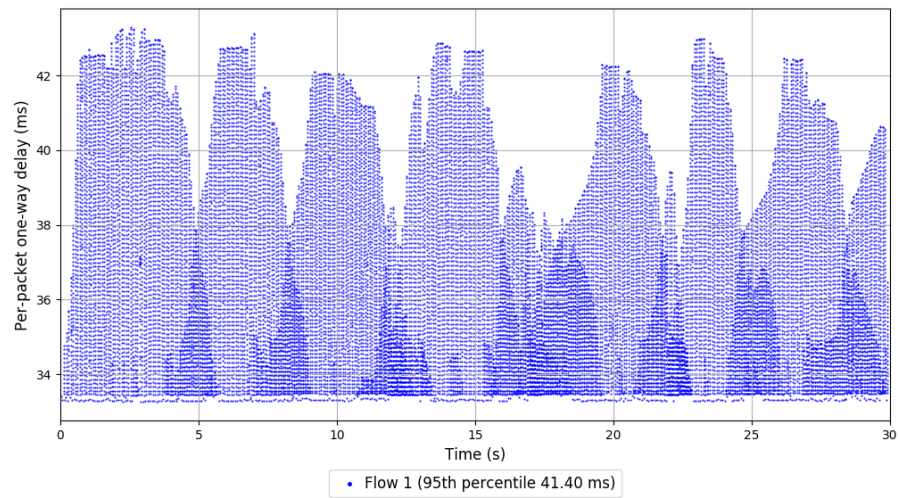
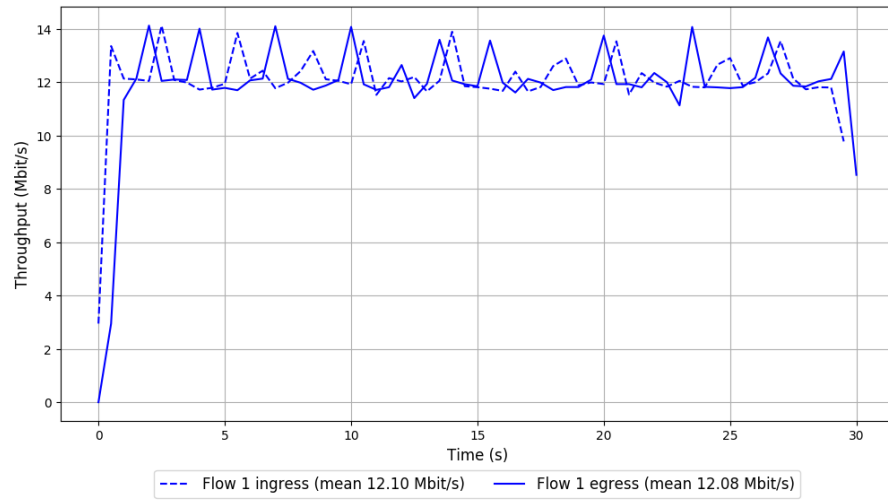


Run 2: Statistics of Sprout

Start at: 2019-03-09 08:03:16
End at: 2019-03-09 08:03:46
Local clock offset: 0.066 ms
Remote clock offset: -0.725 ms

Below is generated by plot.py at 2019-03-09 09:51:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.08 Mbit/s
95th percentile per-packet one-way delay: 41.397 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 12.08 Mbit/s
95th percentile per-packet one-way delay: 41.397 ms
Loss rate: 0.17%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-03-09 08:27:48

End at: 2019-03-09 08:28:18

Local clock offset: 0.083 ms

Remote clock offset: 0.631 ms

Below is generated by plot.py at 2019-03-09 09:51:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.00 Mbit/s

95th percentile per-packet one-way delay: 40.744 ms

Loss rate: 0.27%

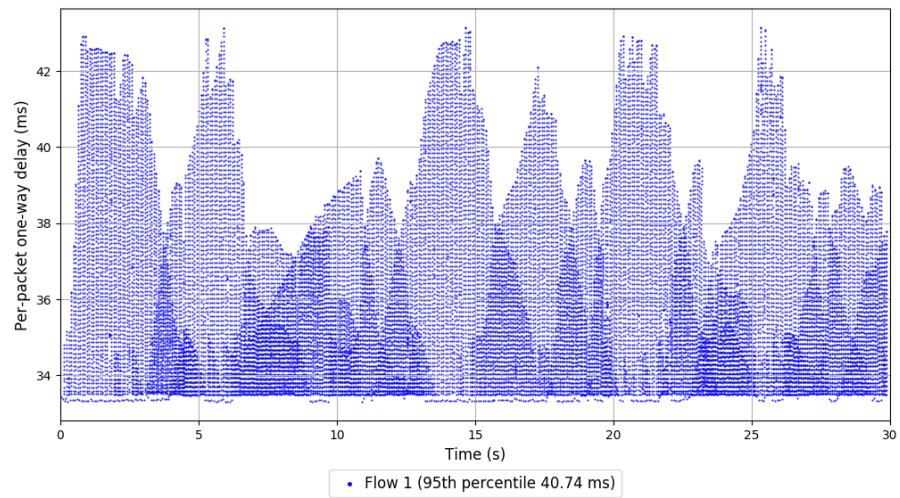
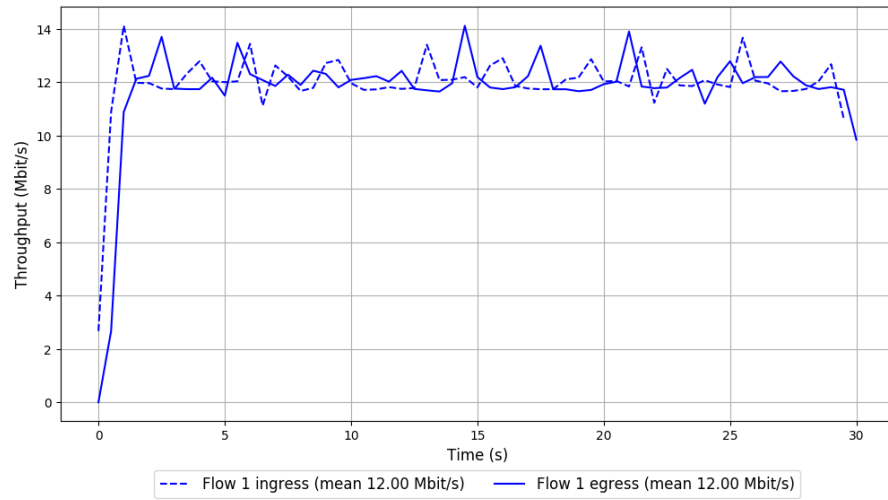
-- Flow 1:

Average throughput: 12.00 Mbit/s

95th percentile per-packet one-way delay: 40.744 ms

Loss rate: 0.27%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-03-09 08:52:23

End at: 2019-03-09 08:52:53

Local clock offset: 0.123 ms

Remote clock offset: 1.366 ms

Below is generated by plot.py at 2019-03-09 09:51:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.10 Mbit/s

95th percentile per-packet one-way delay: 40.969 ms

Loss rate: 0.27%

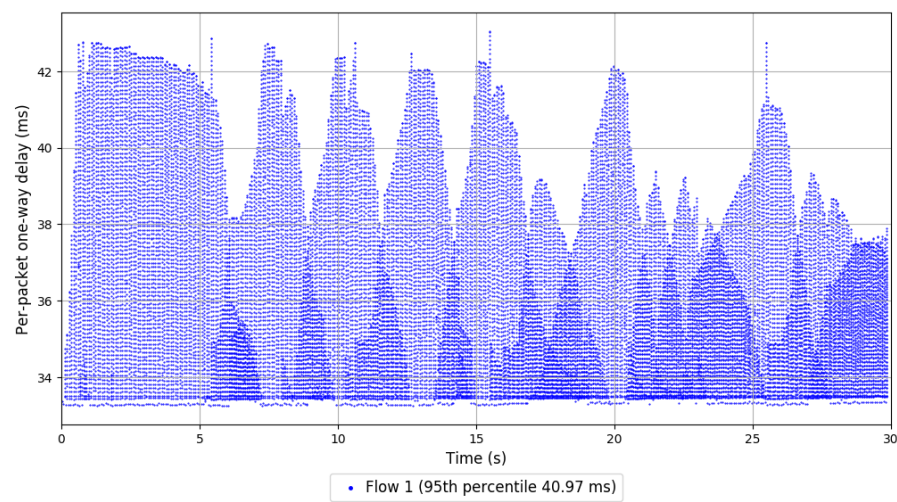
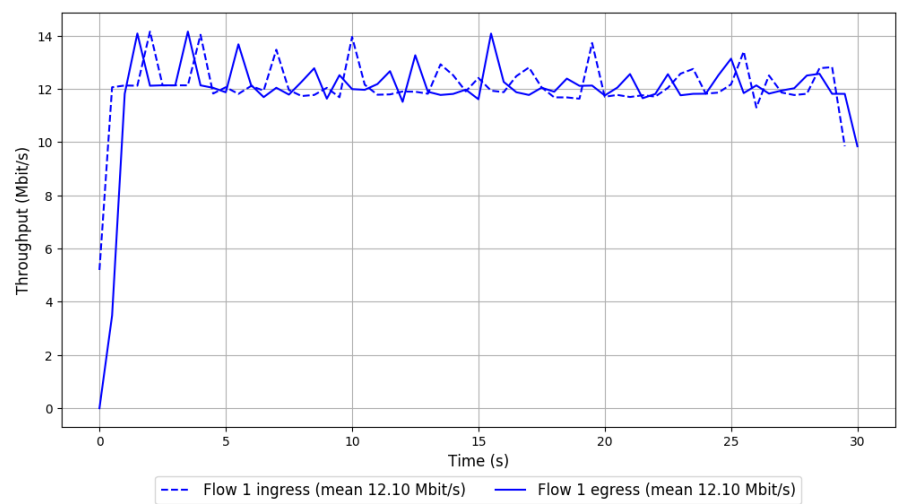
-- Flow 1:

Average throughput: 12.10 Mbit/s

95th percentile per-packet one-way delay: 40.969 ms

Loss rate: 0.27%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-03-09 09:16:54

End at: 2019-03-09 09:17:24

Local clock offset: 0.215 ms

Remote clock offset: 1.816 ms

Below is generated by plot.py at 2019-03-09 09:51:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.95 Mbit/s

95th percentile per-packet one-way delay: 40.898 ms

Loss rate: 0.20%

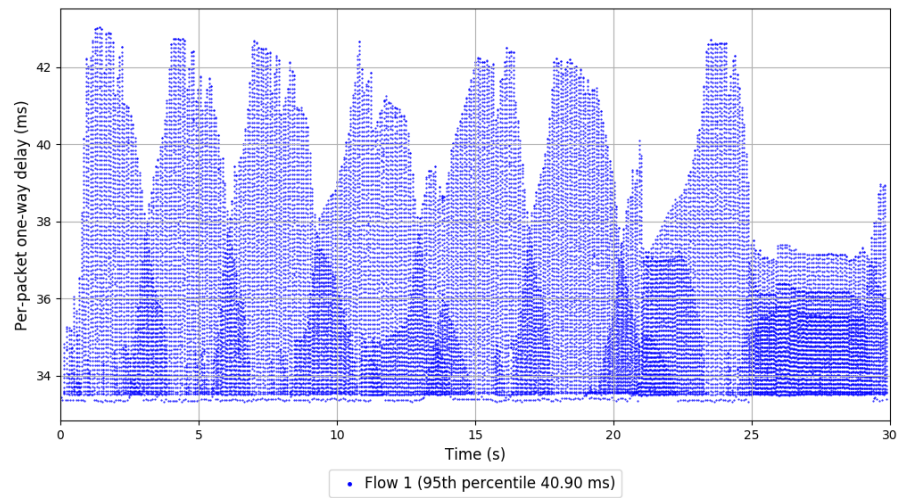
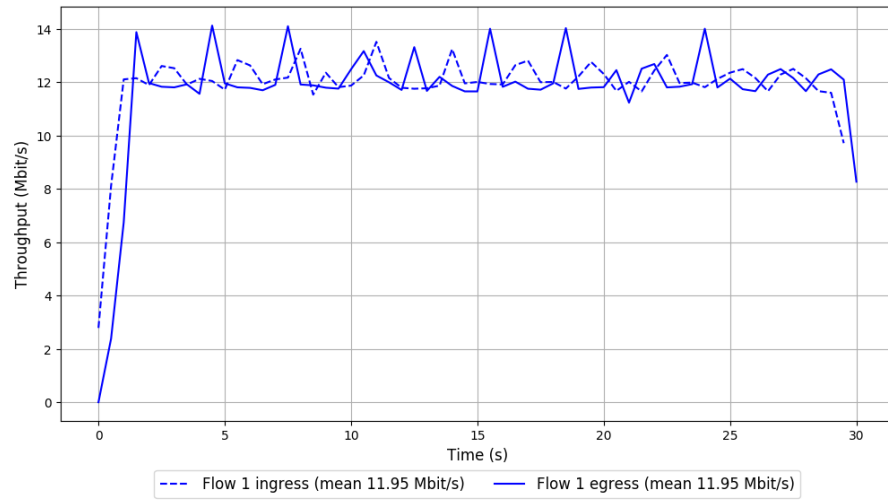
-- Flow 1:

Average throughput: 11.95 Mbit/s

95th percentile per-packet one-way delay: 40.898 ms

Loss rate: 0.20%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-03-09 07:35:44

End at: 2019-03-09 07:36:14

Local clock offset: 0.034 ms

Remote clock offset: -2.466 ms

Below is generated by plot.py at 2019-03-09 09:53:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.41 Mbit/s

95th percentile per-packet one-way delay: 44.928 ms

Loss rate: 0.20%

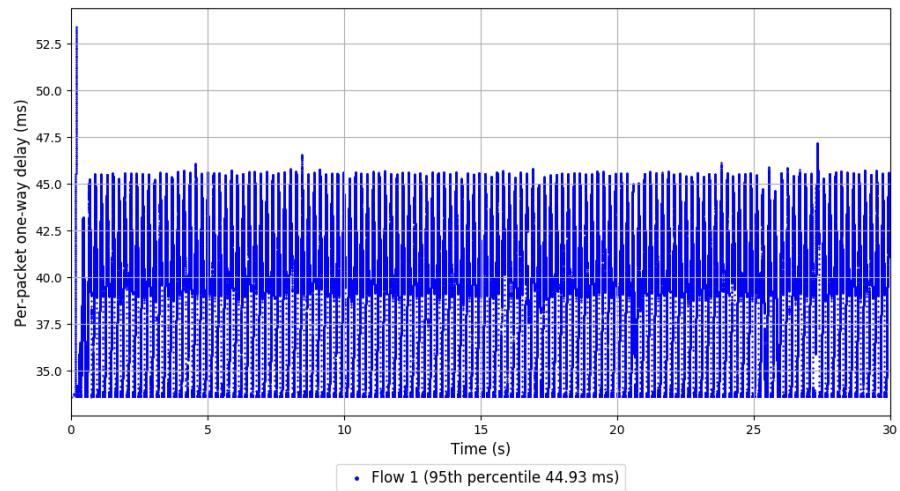
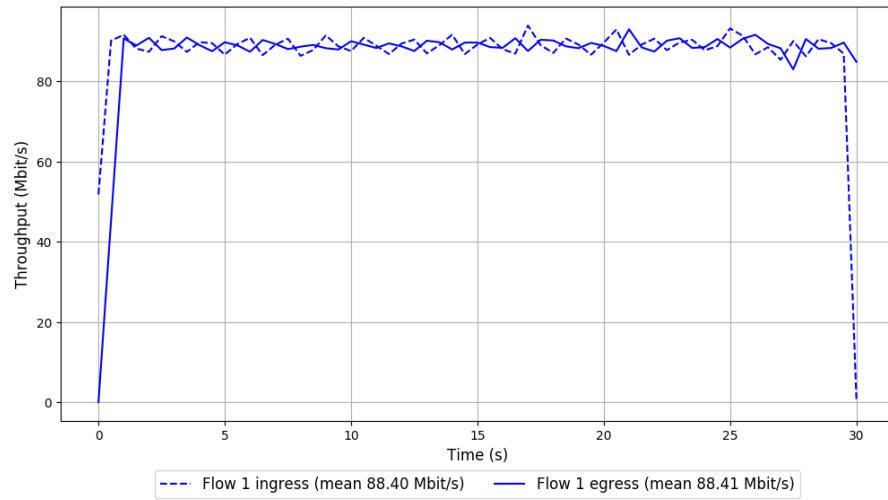
-- Flow 1:

Average throughput: 88.41 Mbit/s

95th percentile per-packet one-way delay: 44.928 ms

Loss rate: 0.20%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-03-09 08:00:50

End at: 2019-03-09 08:01:20

Local clock offset: 0.044 ms

Remote clock offset: -0.904 ms

Below is generated by plot.py at 2019-03-09 09:53:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.39 Mbit/s

95th percentile per-packet one-way delay: 44.716 ms

Loss rate: 0.21%

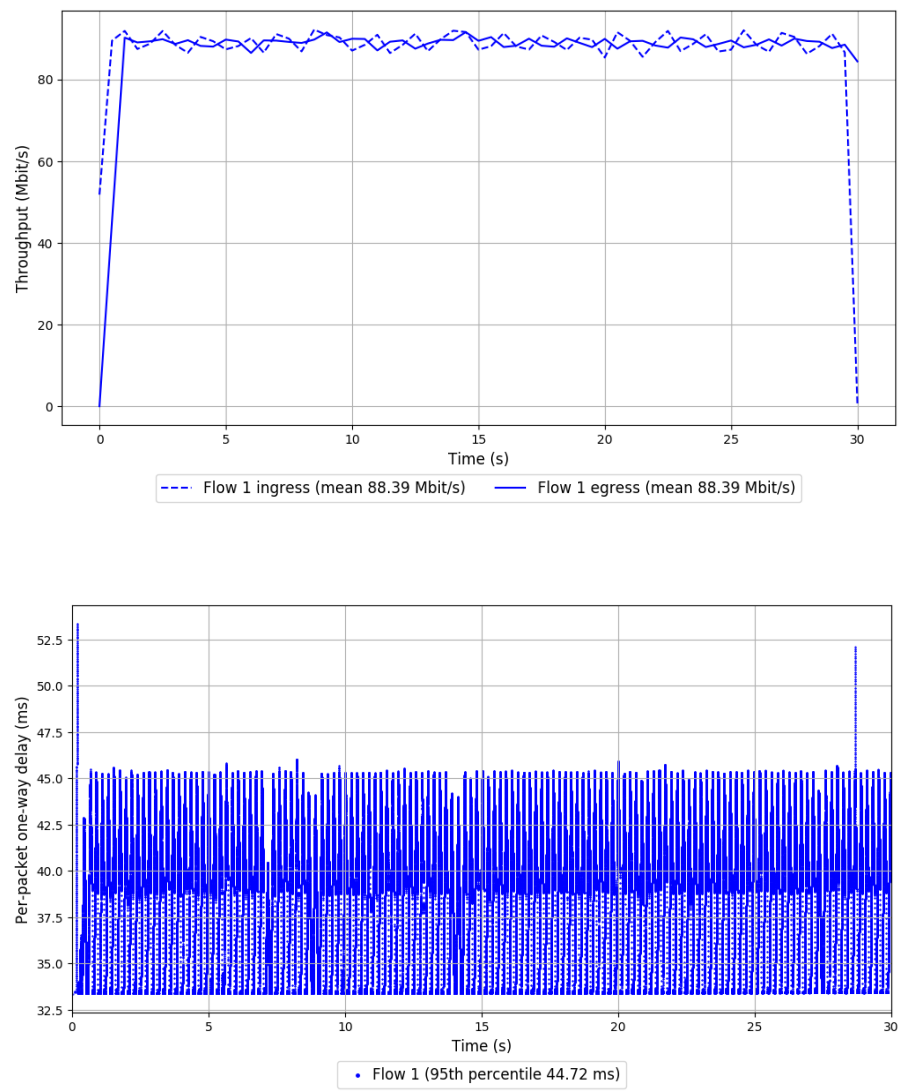
-- Flow 1:

Average throughput: 88.39 Mbit/s

95th percentile per-packet one-way delay: 44.716 ms

Loss rate: 0.21%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-03-09 08:25:22

End at: 2019-03-09 08:25:52

Local clock offset: 0.076 ms

Remote clock offset: 0.56 ms

Below is generated by plot.py at 2019-03-09 09:53:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.38 Mbit/s

95th percentile per-packet one-way delay: 44.803 ms

Loss rate: 0.24%

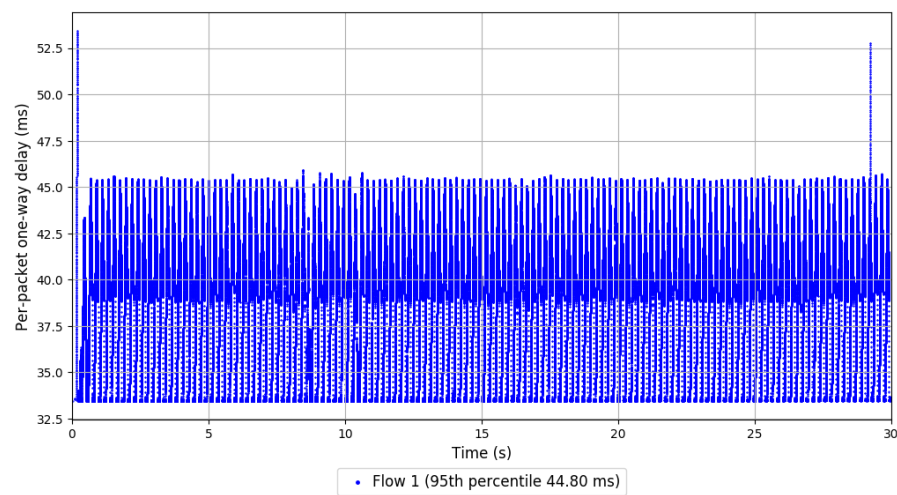
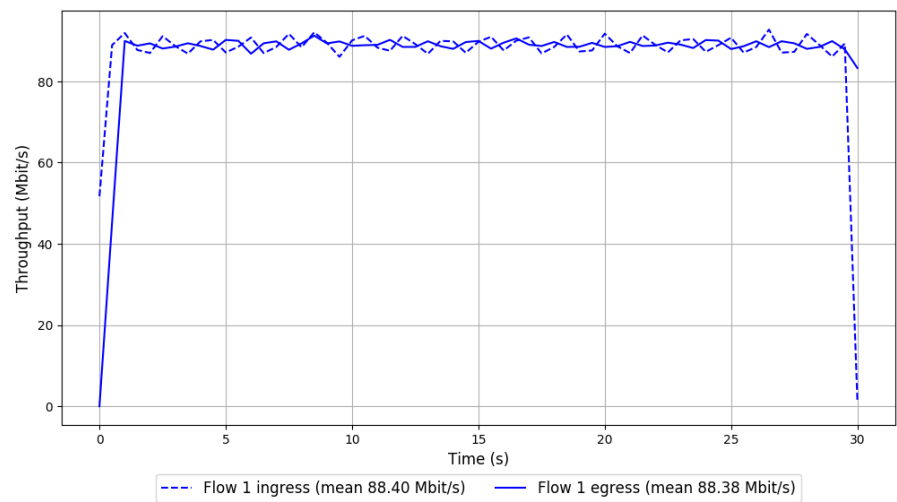
-- Flow 1:

Average throughput: 88.38 Mbit/s

95th percentile per-packet one-way delay: 44.803 ms

Loss rate: 0.24%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-03-09 08:49:57

End at: 2019-03-09 08:50:27

Local clock offset: 0.096 ms

Remote clock offset: 1.123 ms

Below is generated by plot.py at 2019-03-09 09:53:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.40 Mbit/s

95th percentile per-packet one-way delay: 44.925 ms

Loss rate: 0.20%

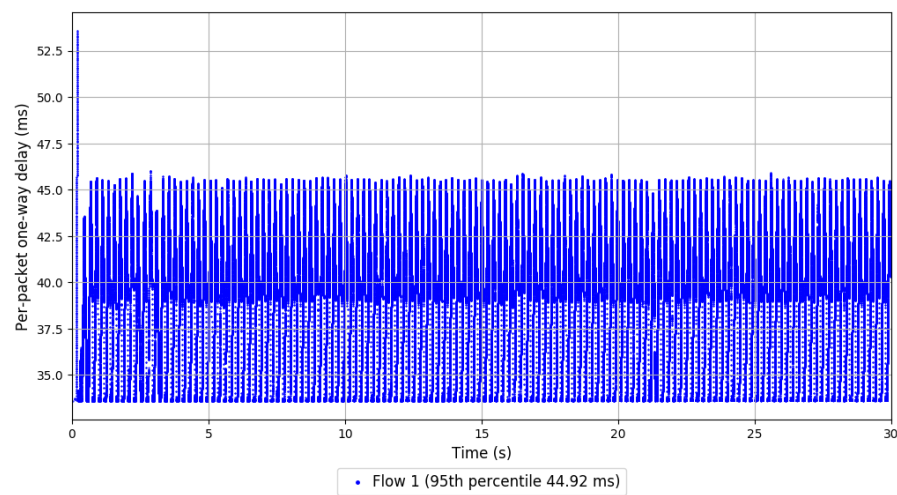
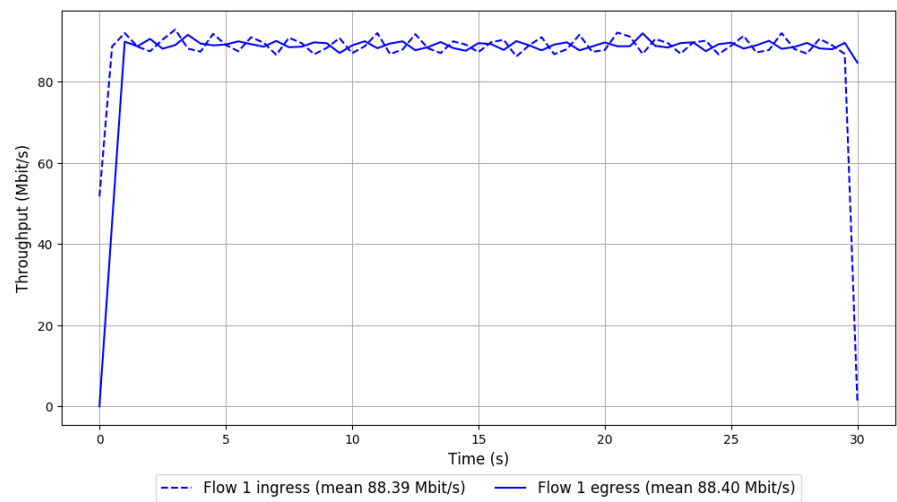
-- Flow 1:

Average throughput: 88.40 Mbit/s

95th percentile per-packet one-way delay: 44.925 ms

Loss rate: 0.20%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-03-09 09:14:28

End at: 2019-03-09 09:14:58

Local clock offset: 0.209 ms

Remote clock offset: 1.818 ms

Below is generated by plot.py at 2019-03-09 09:53:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.19 Mbit/s

95th percentile per-packet one-way delay: 44.881 ms

Loss rate: 0.20%

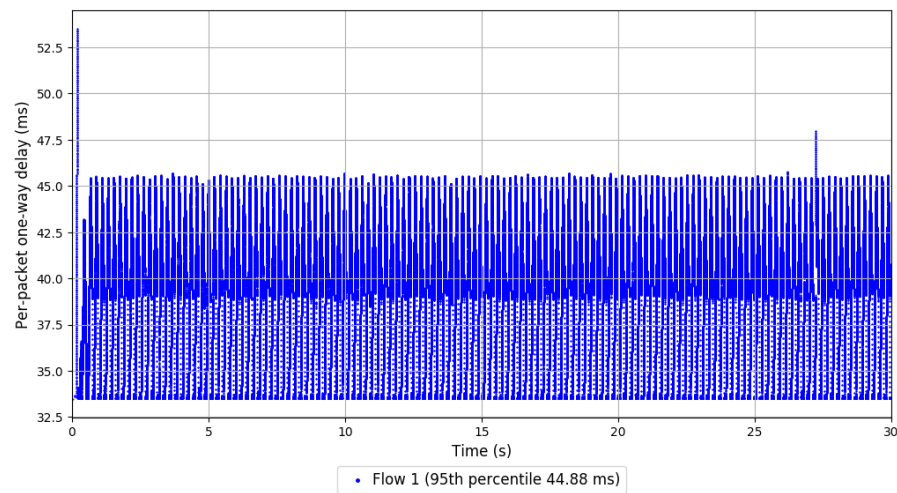
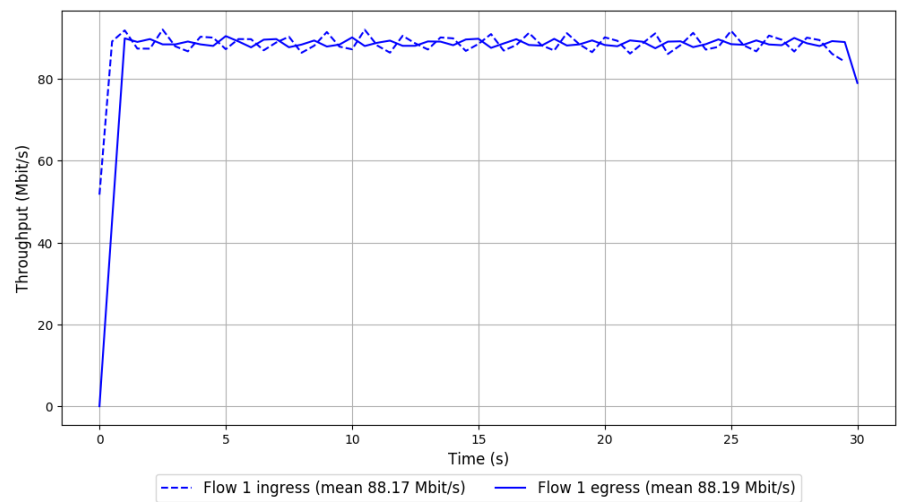
-- Flow 1:

Average throughput: 88.19 Mbit/s

95th percentile per-packet one-way delay: 44.881 ms

Loss rate: 0.20%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-03-09 07:39:20

End at: 2019-03-09 07:39:50

Local clock offset: 0.0 ms

Remote clock offset: -2.105 ms

Below is generated by plot.py at 2019-03-09 09:53:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.98 Mbit/s

95th percentile per-packet one-way delay: 34.858 ms

Loss rate: 0.28%

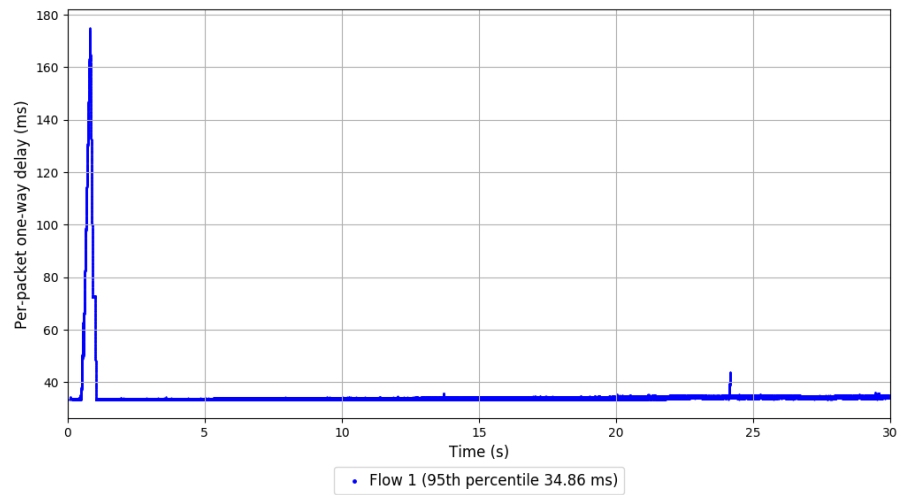
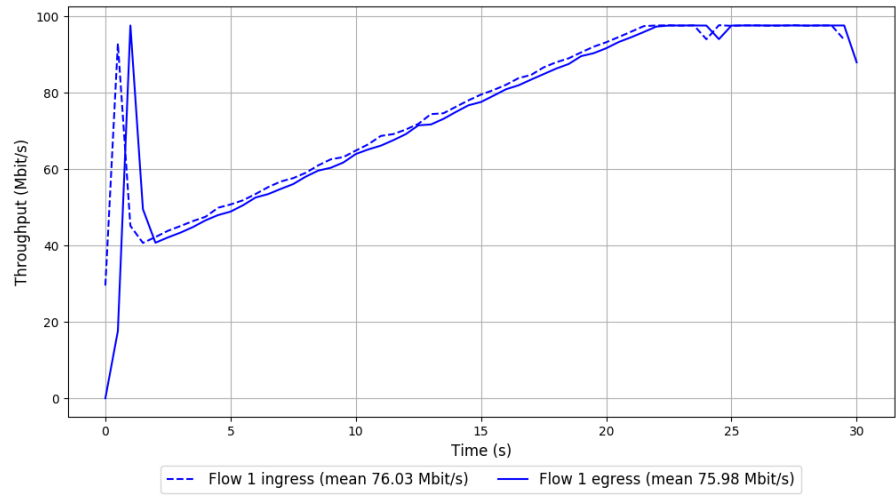
-- Flow 1:

Average throughput: 75.98 Mbit/s

95th percentile per-packet one-way delay: 34.858 ms

Loss rate: 0.28%

Run 1: Report of TCP Vegas — Data Link

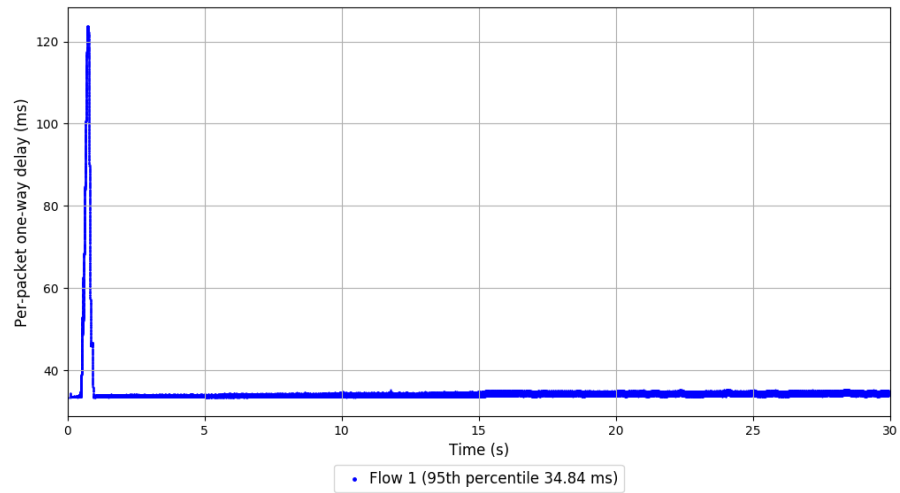
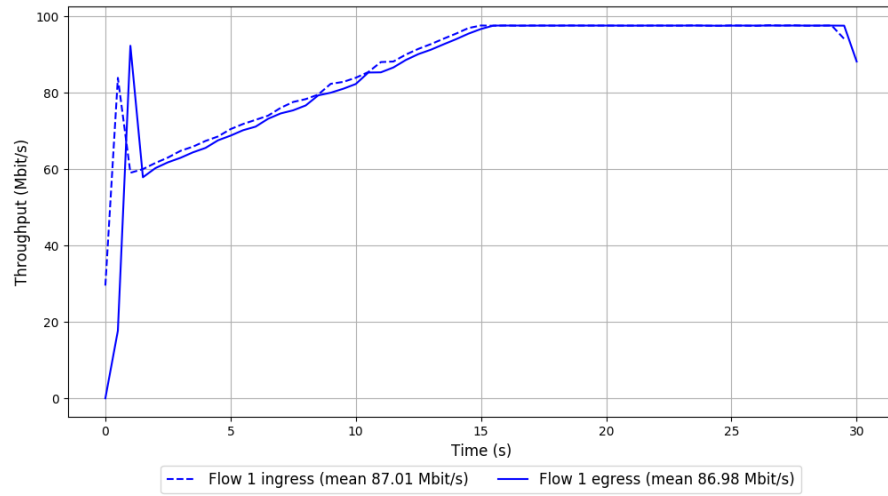


Run 2: Statistics of TCP Vegas

Start at: 2019-03-09 08:04:23
End at: 2019-03-09 08:04:53
Local clock offset: 0.071 ms
Remote clock offset: -0.698 ms

Below is generated by plot.py at 2019-03-09 09:53:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.98 Mbit/s
95th percentile per-packet one-way delay: 34.835 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 86.98 Mbit/s
95th percentile per-packet one-way delay: 34.835 ms
Loss rate: 0.25%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-03-09 08:28:55

End at: 2019-03-09 08:29:25

Local clock offset: 0.079 ms

Remote clock offset: 0.492 ms

Below is generated by plot.py at 2019-03-09 09:53:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.32 Mbit/s

95th percentile per-packet one-way delay: 34.988 ms

Loss rate: 0.30%

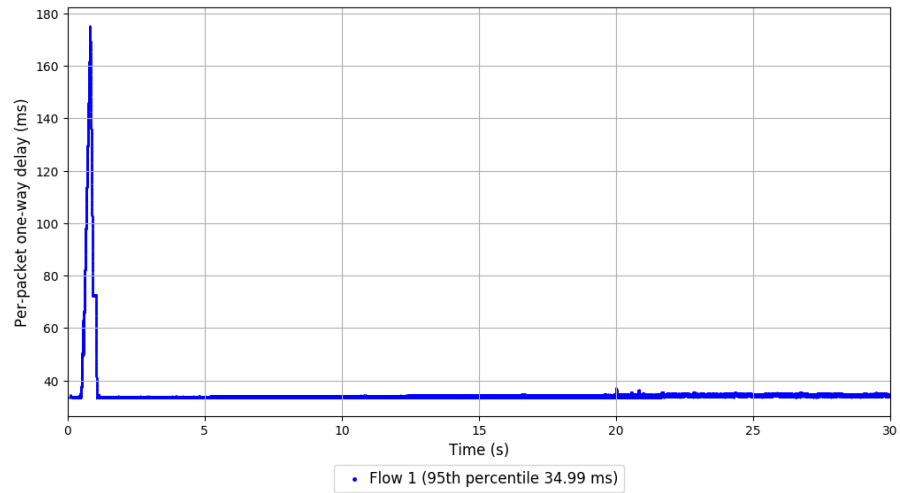
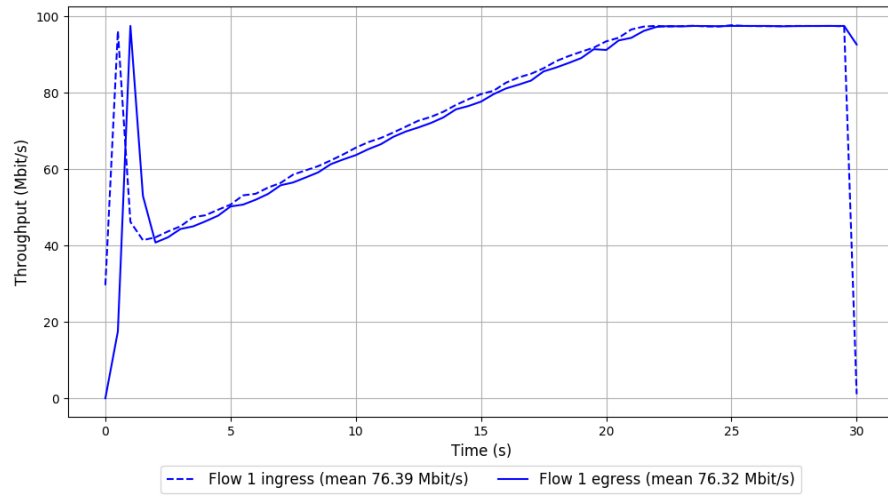
-- Flow 1:

Average throughput: 76.32 Mbit/s

95th percentile per-packet one-way delay: 34.988 ms

Loss rate: 0.30%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-03-09 08:53:30

End at: 2019-03-09 08:54:00

Local clock offset: 0.141 ms

Remote clock offset: 1.425 ms

Below is generated by plot.py at 2019-03-09 09:53:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.86 Mbit/s

95th percentile per-packet one-way delay: 34.746 ms

Loss rate: 0.28%

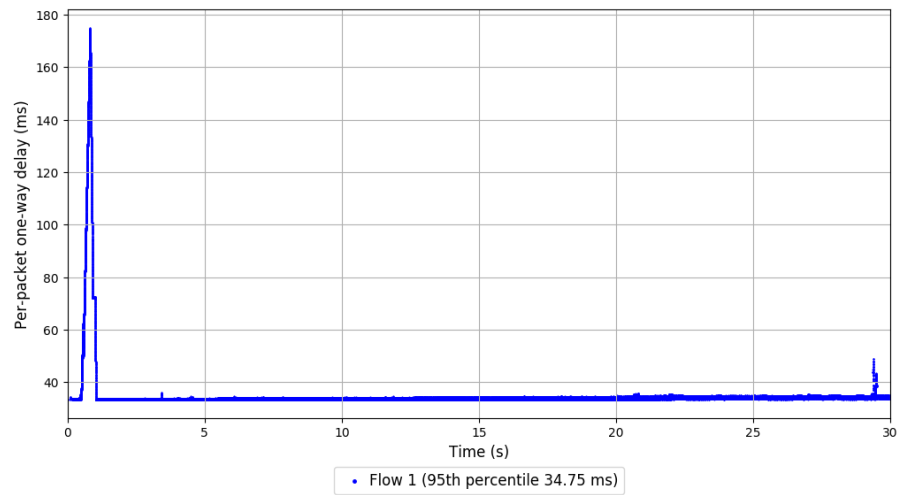
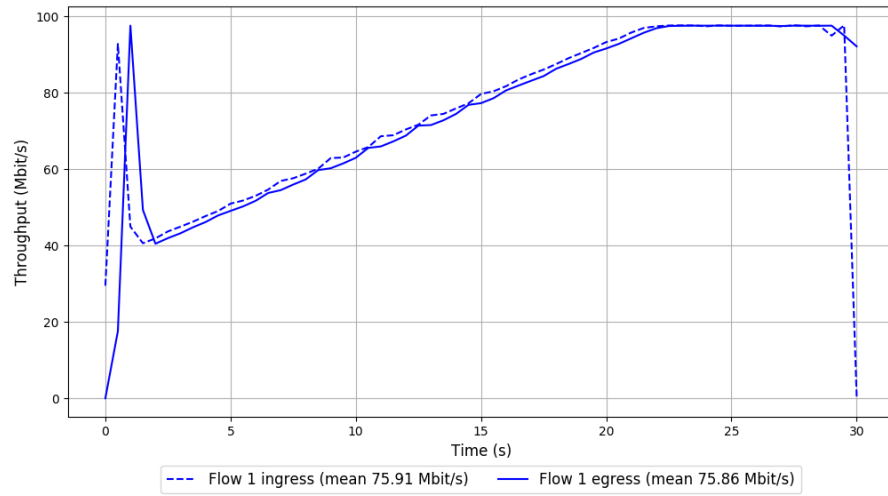
-- Flow 1:

Average throughput: 75.86 Mbit/s

95th percentile per-packet one-way delay: 34.746 ms

Loss rate: 0.28%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-03-09 09:18:01

End at: 2019-03-09 09:18:31

Local clock offset: 0.23 ms

Remote clock offset: 1.827 ms

Below is generated by plot.py at 2019-03-09 09:53:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.39 Mbit/s

95th percentile per-packet one-way delay: 34.756 ms

Loss rate: 0.35%

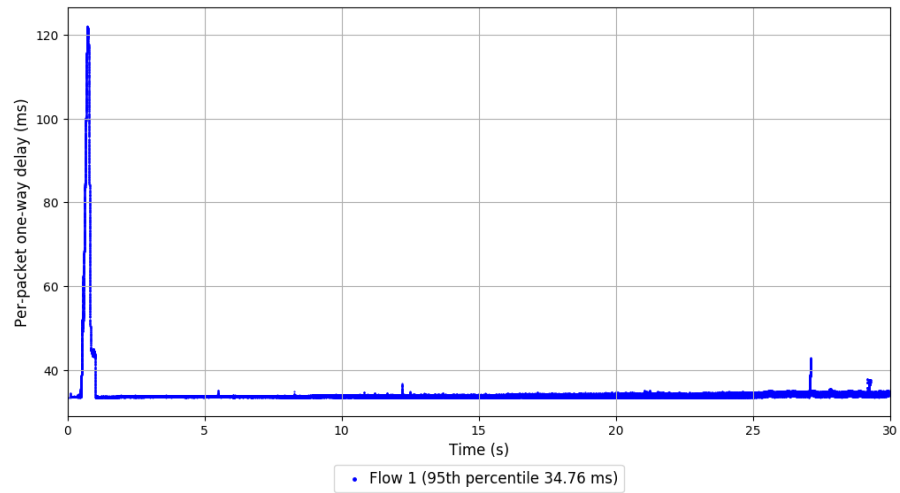
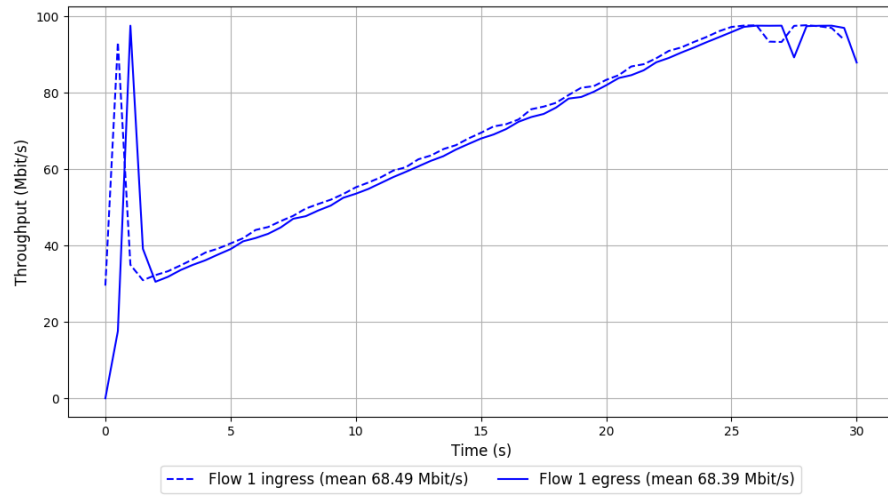
-- Flow 1:

Average throughput: 68.39 Mbit/s

95th percentile per-packet one-way delay: 34.756 ms

Loss rate: 0.35%

Run 5: Report of TCP Vegas — Data Link

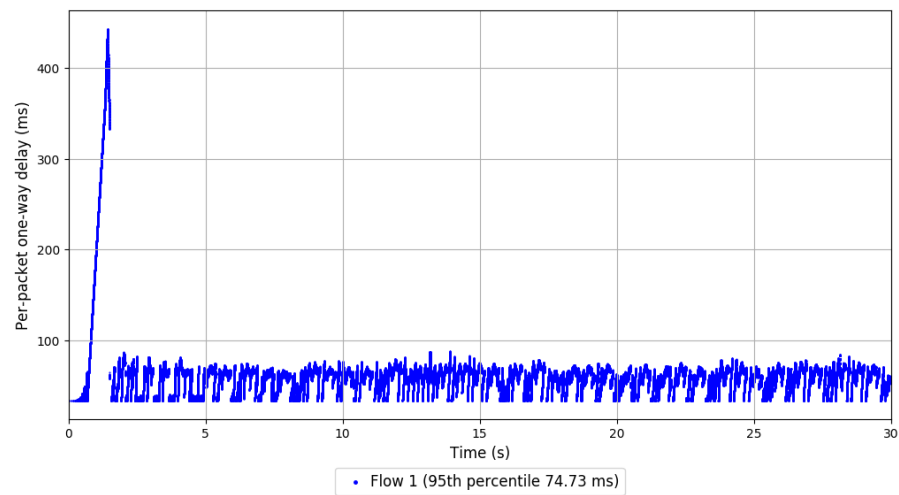
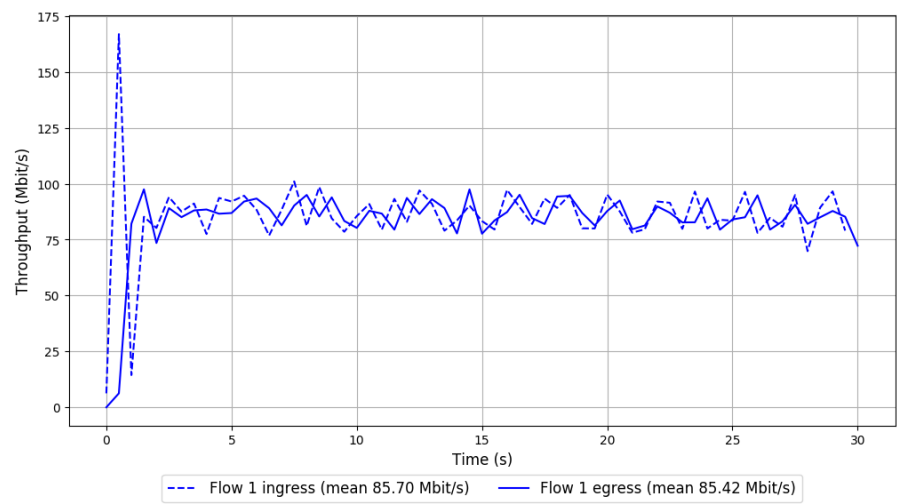


Run 1: Statistics of Verus

Start at: 2019-03-09 07:46:33
End at: 2019-03-09 07:47:03
Local clock offset: 0.024 ms
Remote clock offset: -2.039 ms

Below is generated by plot.py at 2019-03-09 09:53:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.42 Mbit/s
95th percentile per-packet one-way delay: 74.726 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 85.42 Mbit/s
95th percentile per-packet one-way delay: 74.726 ms
Loss rate: 0.55%

Run 1: Report of Verus — Data Link

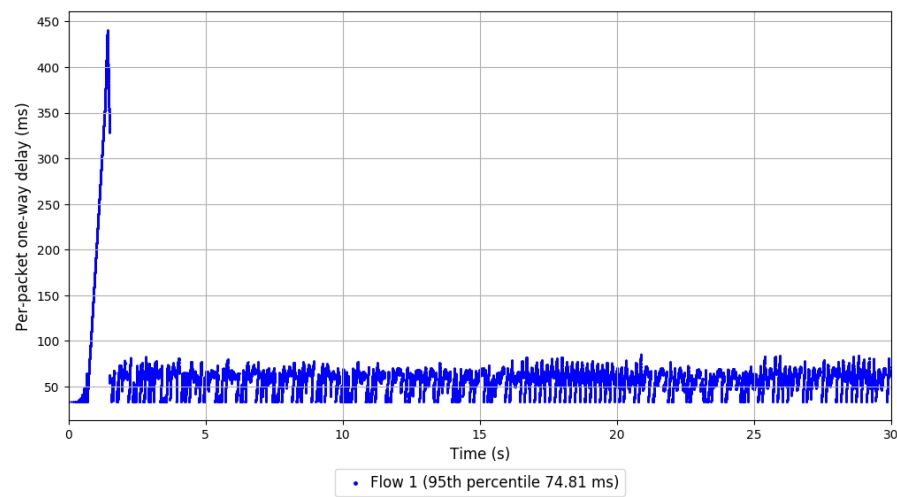
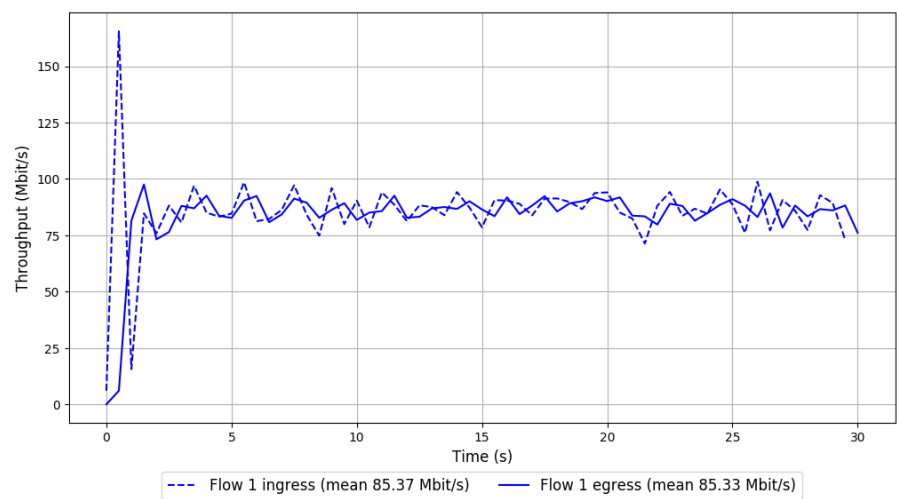


Run 2: Statistics of Verus

Start at: 2019-03-09 08:11:26
End at: 2019-03-09 08:11:56
Local clock offset: 0.076 ms
Remote clock offset: -0.268 ms

Below is generated by plot.py at 2019-03-09 09:54:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.33 Mbit/s
95th percentile per-packet one-way delay: 74.811 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 85.33 Mbit/s
95th percentile per-packet one-way delay: 74.811 ms
Loss rate: 0.31%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-03-09 08:35:59

End at: 2019-03-09 08:36:29

Local clock offset: 0.099 ms

Remote clock offset: 0.99 ms

Below is generated by plot.py at 2019-03-09 09:54:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.95 Mbit/s

95th percentile per-packet one-way delay: 74.351 ms

Loss rate: 0.46%

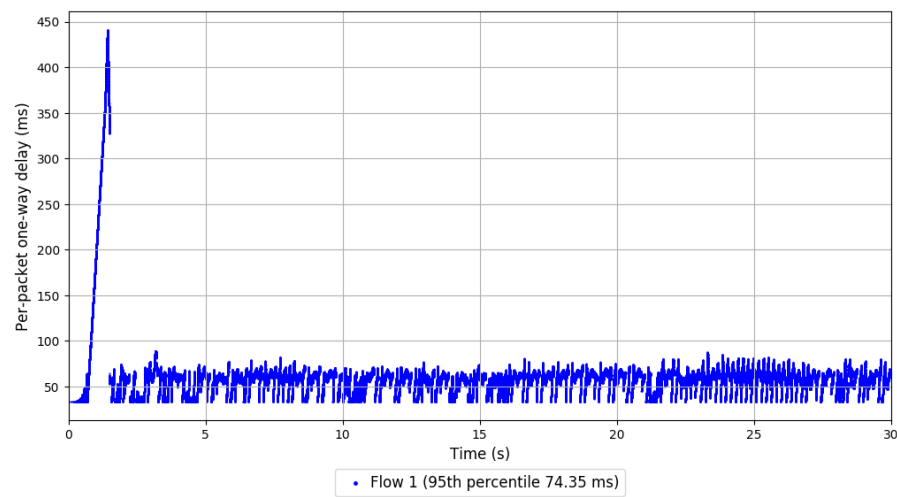
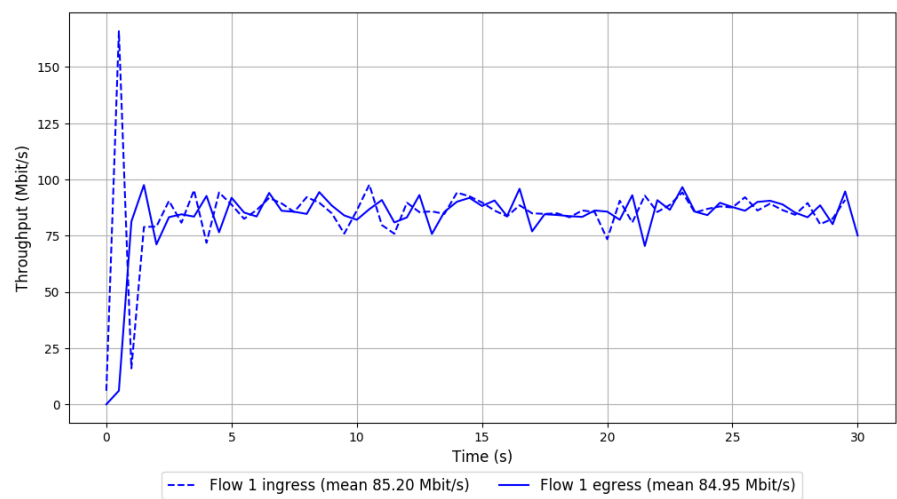
-- Flow 1:

Average throughput: 84.95 Mbit/s

95th percentile per-packet one-way delay: 74.351 ms

Loss rate: 0.46%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-03-09 09:00:32

End at: 2019-03-09 09:01:02

Local clock offset: 0.169 ms

Remote clock offset: 1.643 ms

Below is generated by plot.py at 2019-03-09 09:54:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.41 Mbit/s

95th percentile per-packet one-way delay: 73.422 ms

Loss rate: 0.36%

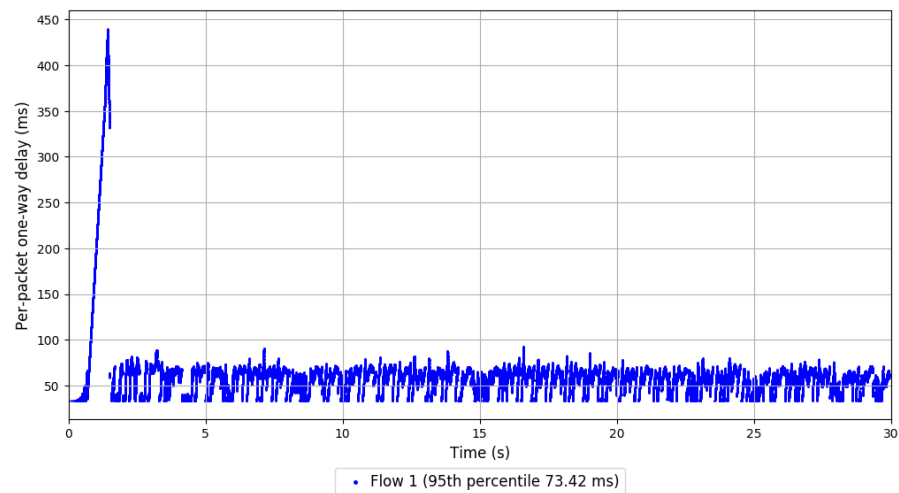
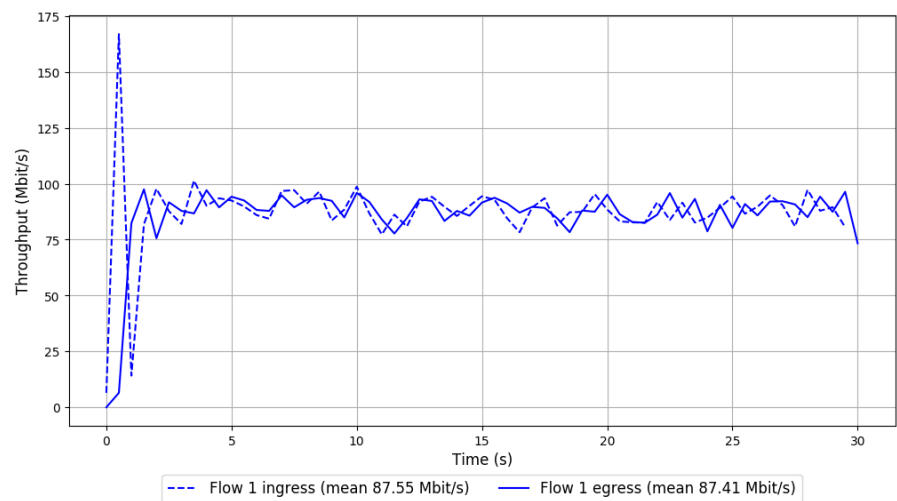
-- Flow 1:

Average throughput: 87.41 Mbit/s

95th percentile per-packet one-way delay: 73.422 ms

Loss rate: 0.36%

Run 4: Report of Verus — Data Link

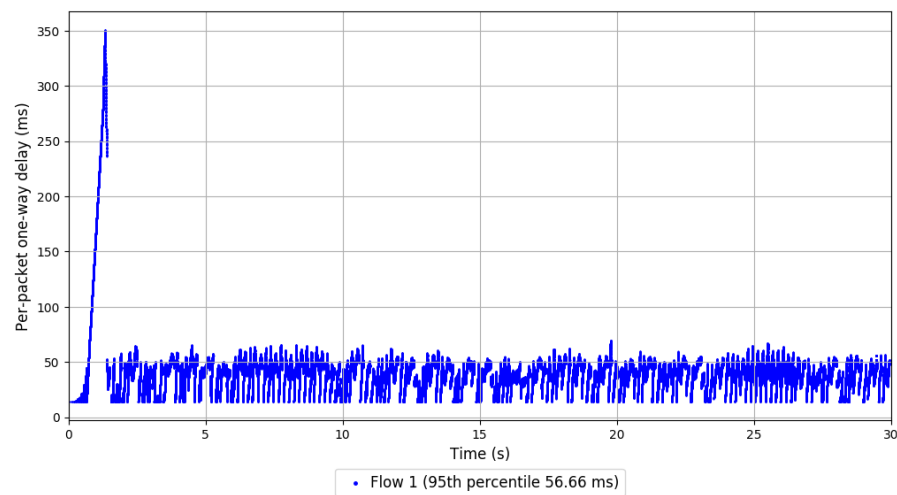
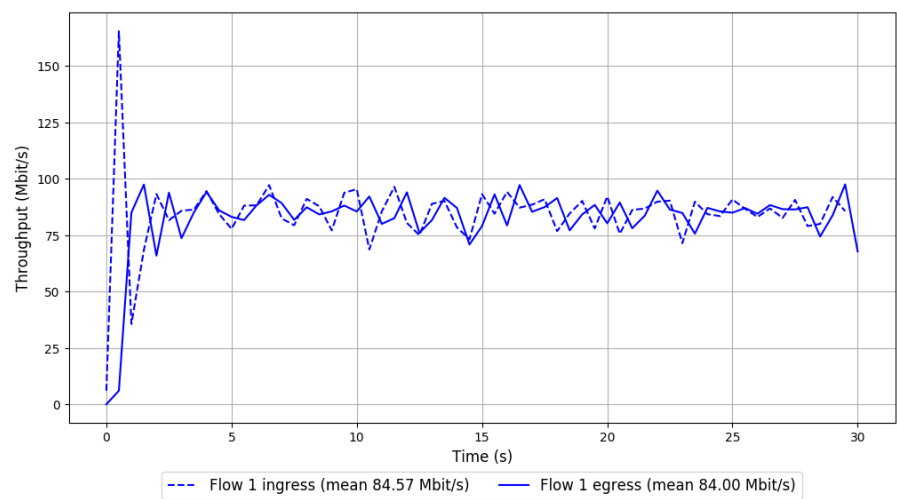


Run 5: Statistics of Verus

Start at: 2019-03-09 09:25:06
End at: 2019-03-09 09:25:36
Local clock offset: 0.281 ms
Remote clock offset: 21.296 ms

Below is generated by plot.py at 2019-03-09 09:54:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.00 Mbit/s
95th percentile per-packet one-way delay: 56.662 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 84.00 Mbit/s
95th percentile per-packet one-way delay: 56.662 ms
Loss rate: 0.87%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-03-09 07:51:28

End at: 2019-03-09 07:51:58

Local clock offset: 0.048 ms

Remote clock offset: -1.686 ms

Below is generated by plot.py at 2019-03-09 09:54:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.10 Mbit/s

95th percentile per-packet one-way delay: 36.129 ms

Loss rate: 0.23%

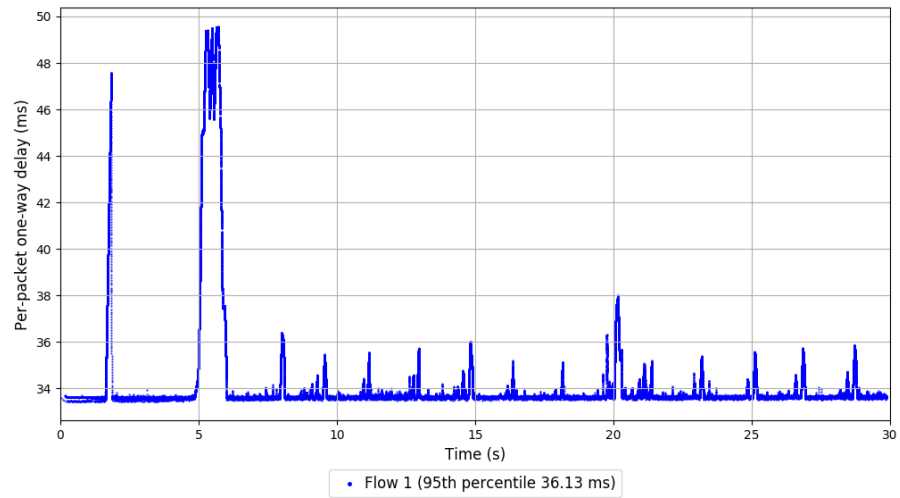
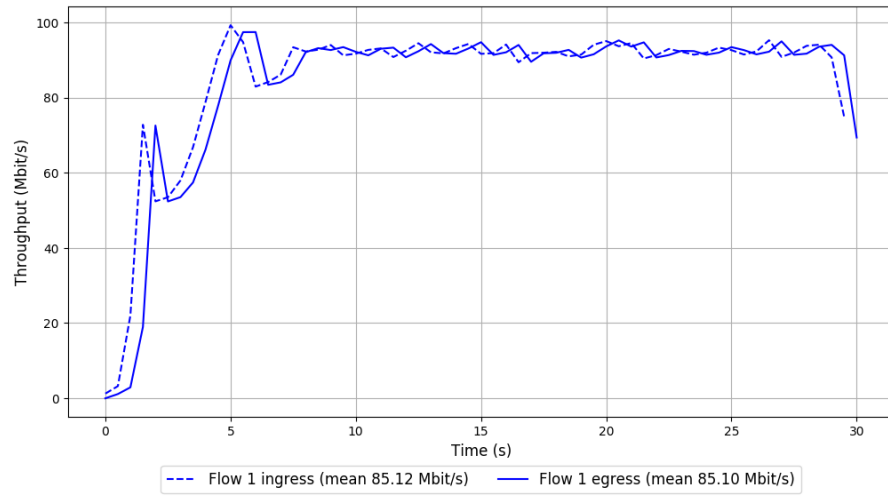
-- Flow 1:

Average throughput: 85.10 Mbit/s

95th percentile per-packet one-way delay: 36.129 ms

Loss rate: 0.23%

Run 1: Report of PCC-Vivace — Data Link

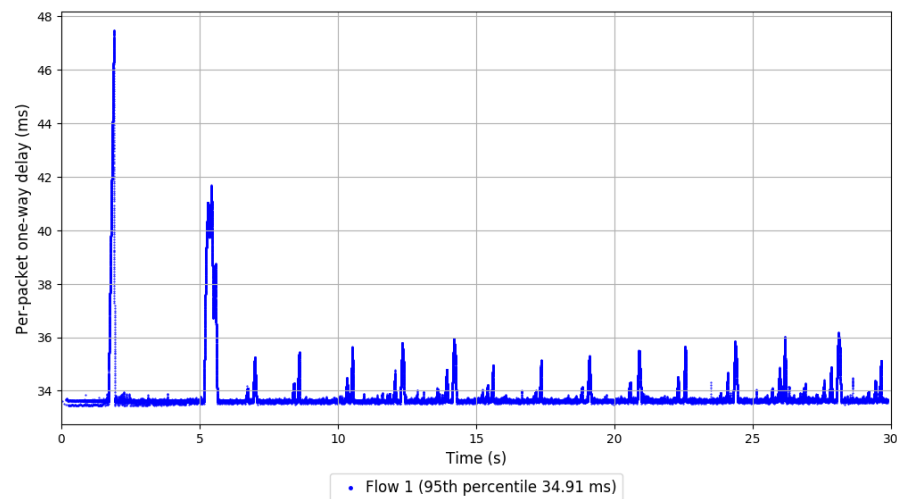
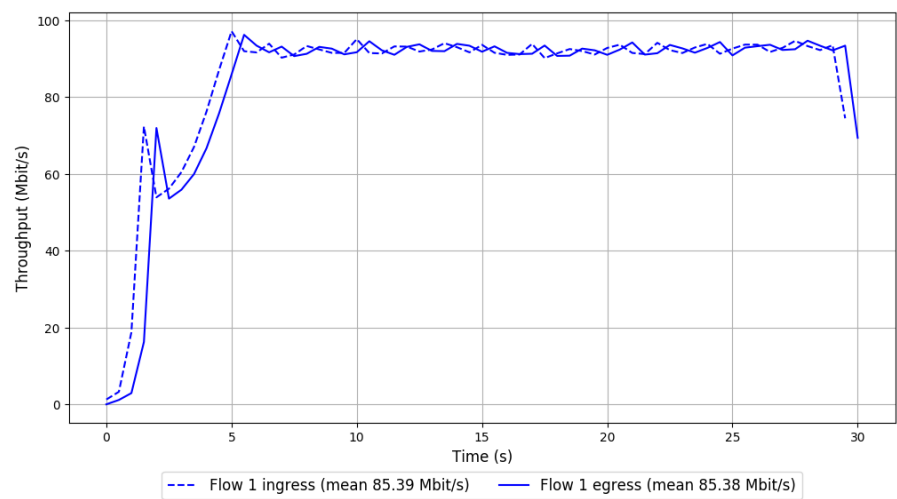


Run 2: Statistics of PCC-Vivace

Start at: 2019-03-09 08:16:08
End at: 2019-03-09 08:16:38
Local clock offset: 0.048 ms
Remote clock offset: -0.195 ms

Below is generated by plot.py at 2019-03-09 09:54:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.38 Mbit/s
95th percentile per-packet one-way delay: 34.905 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 85.38 Mbit/s
95th percentile per-packet one-way delay: 34.905 ms
Loss rate: 0.22%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-03-09 08:40:42

End at: 2019-03-09 08:41:12

Local clock offset: 0.072 ms

Remote clock offset: 1.055 ms

Below is generated by plot.py at 2019-03-09 09:54:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.17 Mbit/s

95th percentile per-packet one-way delay: 34.696 ms

Loss rate: 0.24%

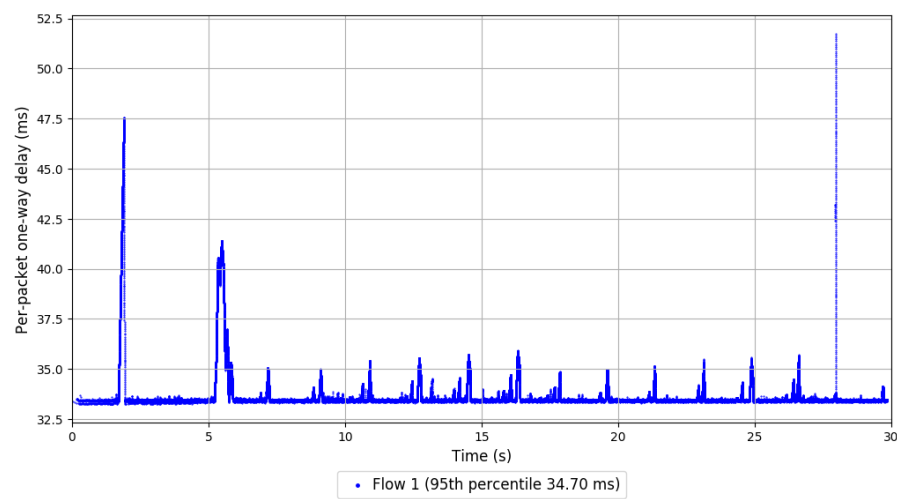
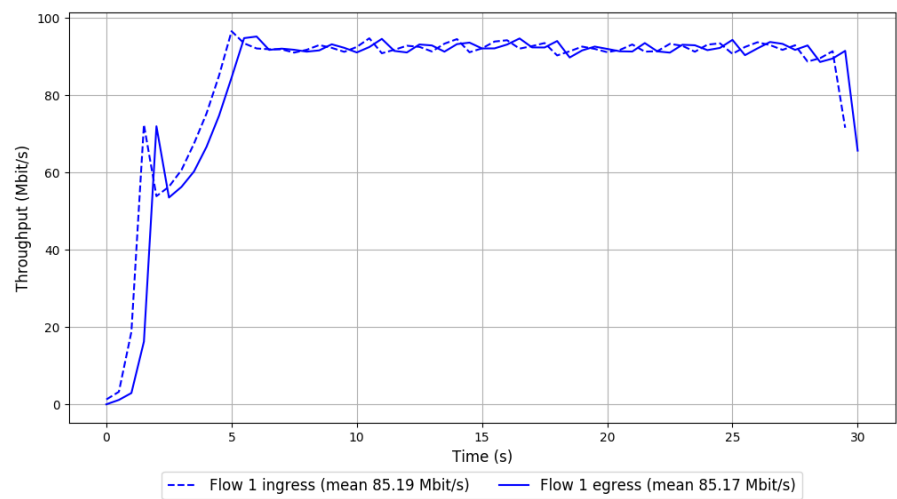
-- Flow 1:

Average throughput: 85.17 Mbit/s

95th percentile per-packet one-way delay: 34.696 ms

Loss rate: 0.24%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-03-09 09:05:14

End at: 2019-03-09 09:05:44

Local clock offset: 0.169 ms

Remote clock offset: 1.593 ms

Below is generated by plot.py at 2019-03-09 09:54:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.66 Mbit/s

95th percentile per-packet one-way delay: 35.671 ms

Loss rate: 0.24%

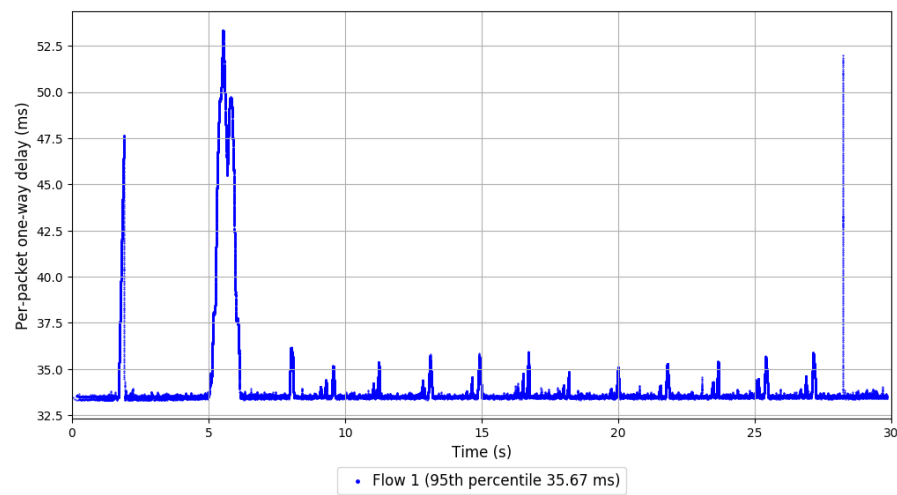
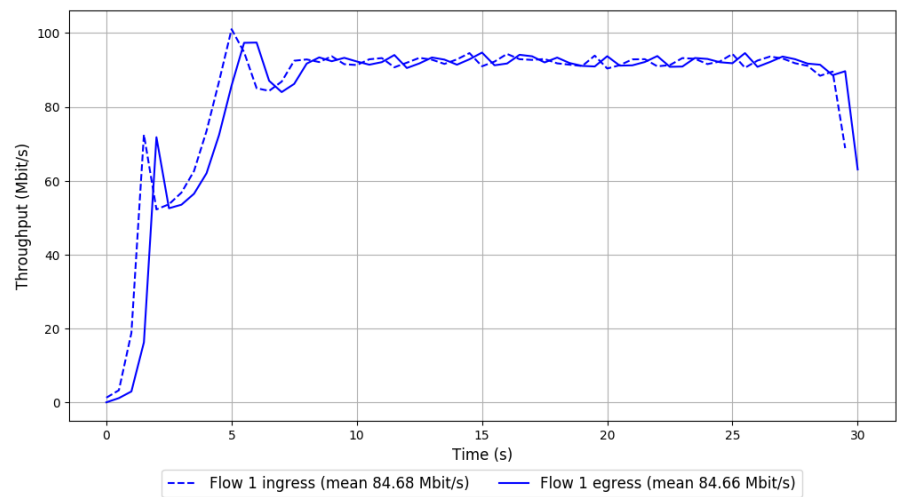
-- Flow 1:

Average throughput: 84.66 Mbit/s

95th percentile per-packet one-way delay: 35.671 ms

Loss rate: 0.24%

Run 4: Report of PCC-Vivace — Data Link

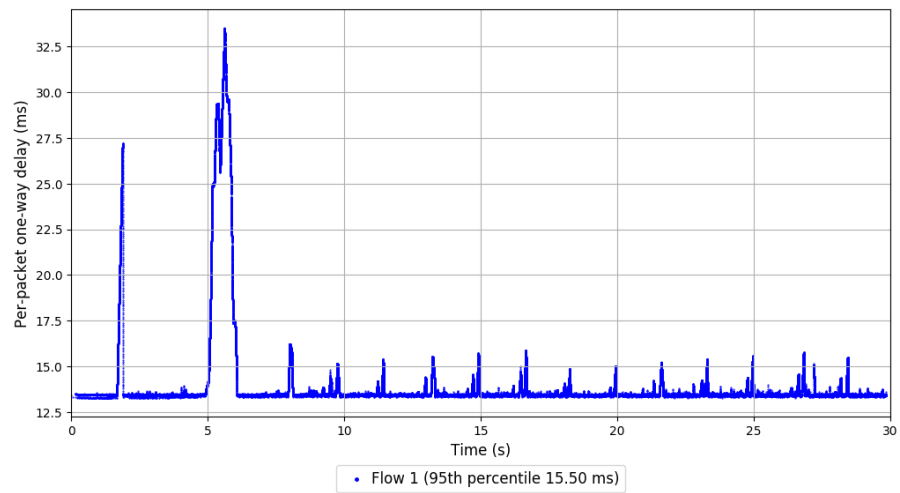
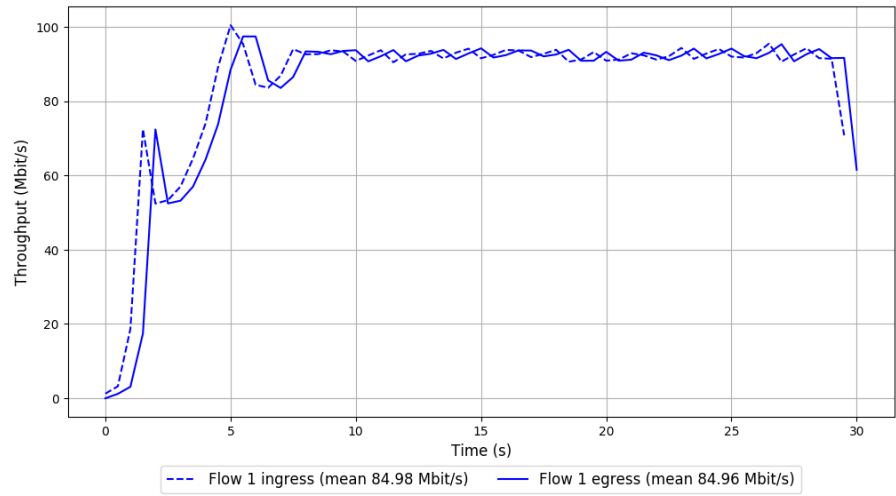


Run 5: Statistics of PCC-Vivace

Start at: 2019-03-09 09:29:51
End at: 2019-03-09 09:30:21
Local clock offset: 0.311 ms
Remote clock offset: 21.761 ms

Below is generated by plot.py at 2019-03-09 09:54:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.96 Mbit/s
95th percentile per-packet one-way delay: 15.500 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 84.96 Mbit/s
95th percentile per-packet one-way delay: 15.500 ms
Loss rate: 0.24%

Run 5: Report of PCC-Vivace — Data Link

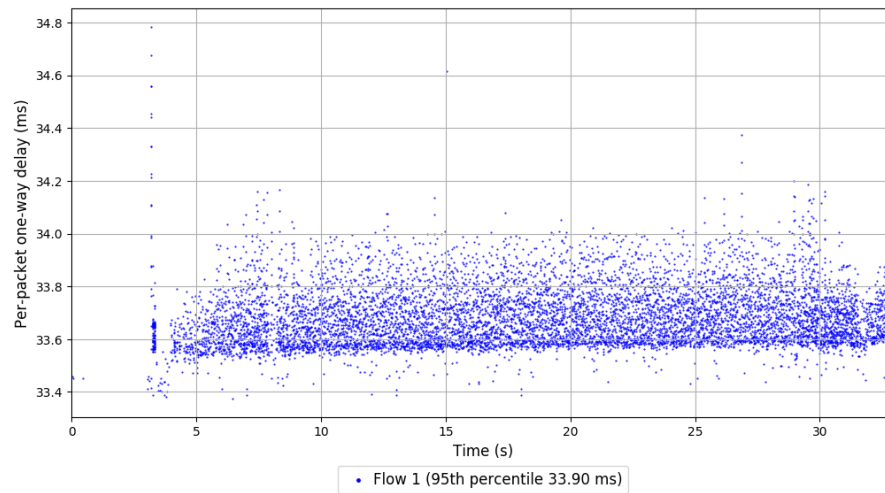
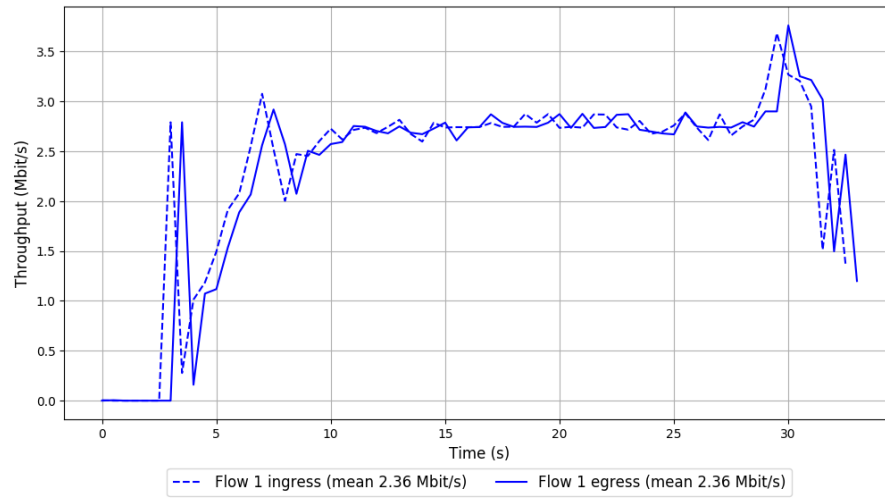


Run 1: Statistics of WebRTC media

Start at: 2019-03-09 07:59:43
End at: 2019-03-09 08:00:13
Local clock offset: 0.066 ms
Remote clock offset: -1.047 ms

Below is generated by plot.py at 2019-03-09 09:54:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 33.904 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 33.904 ms
Loss rate: 0.24%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-03-09 08:24:15

End at: 2019-03-09 08:24:45

Local clock offset: 0.085 ms

Remote clock offset: 0.541 ms

Below is generated by plot.py at 2019-03-09 09:54:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 33.799 ms

Loss rate: 0.26%

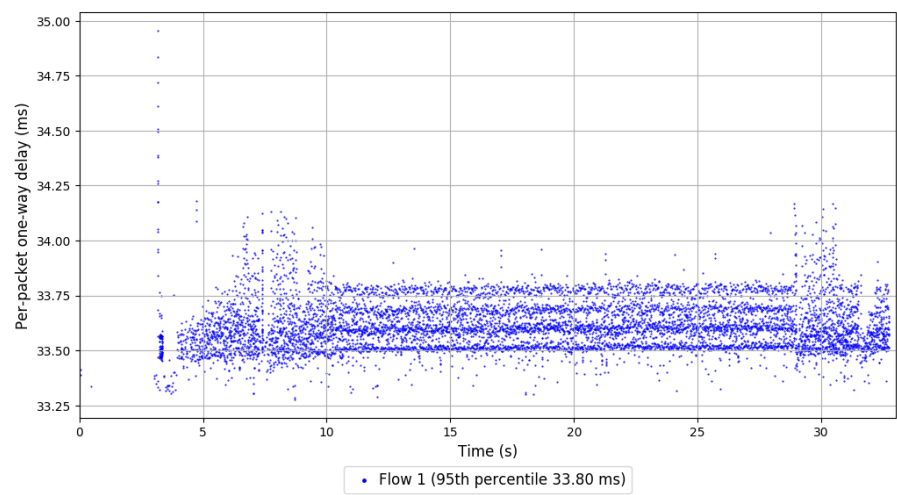
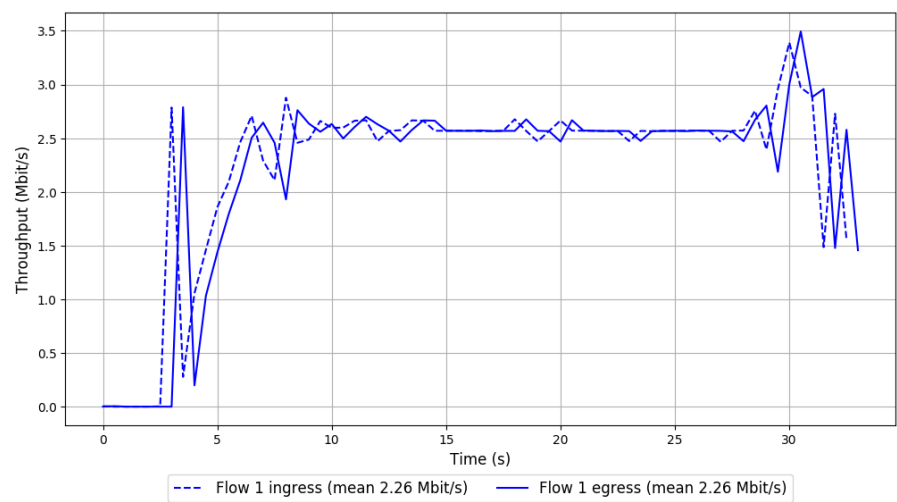
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 33.799 ms

Loss rate: 0.26%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-03-09 08:48:50

End at: 2019-03-09 08:49:20

Local clock offset: 0.104 ms

Remote clock offset: 1.247 ms

Below is generated by plot.py at 2019-03-09 09:54:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 33.787 ms

Loss rate: 0.26%

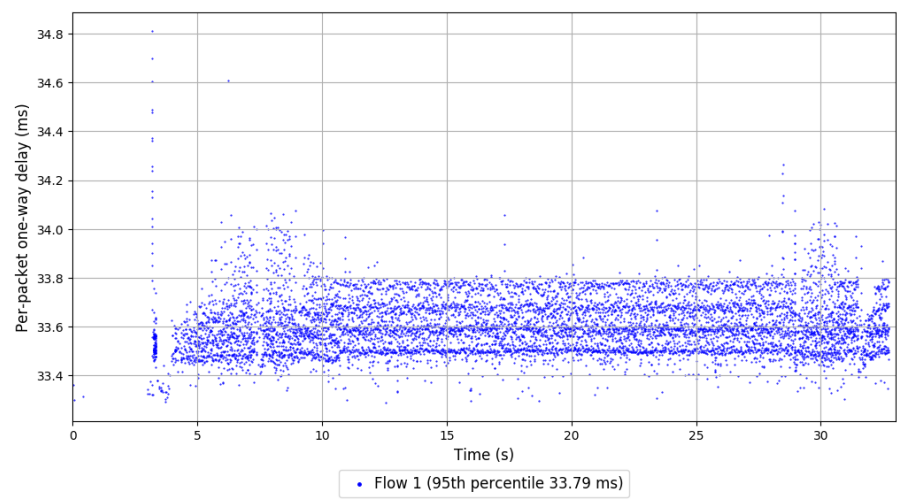
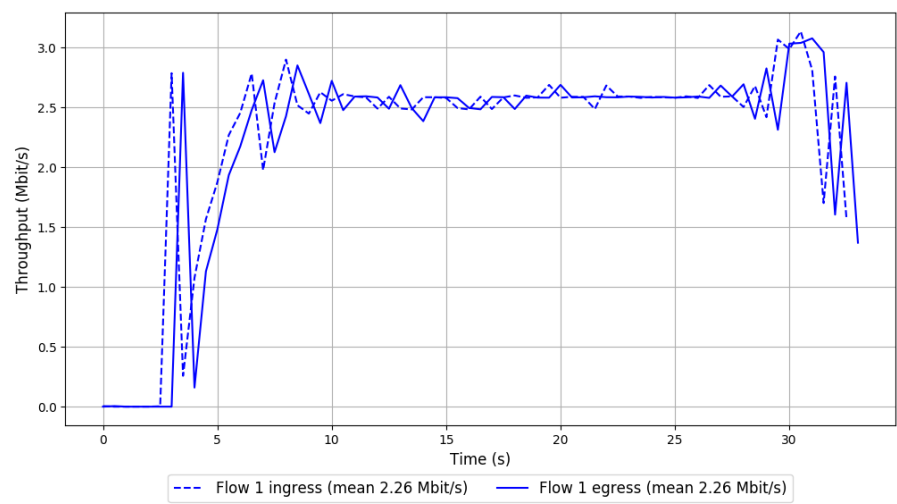
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 33.787 ms

Loss rate: 0.26%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-03-09 09:13:22

End at: 2019-03-09 09:13:52

Local clock offset: 0.197 ms

Remote clock offset: 1.834 ms

Below is generated by plot.py at 2019-03-09 09:54:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 33.894 ms

Loss rate: 0.25%

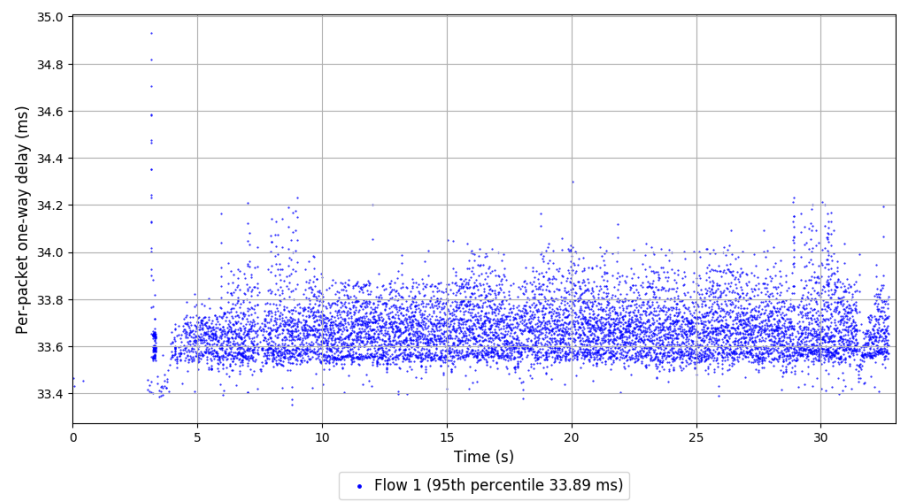
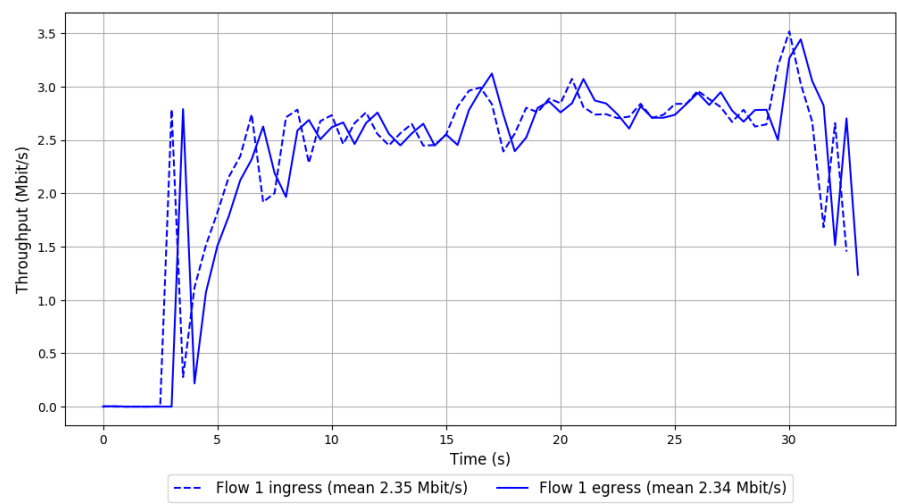
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 33.894 ms

Loss rate: 0.25%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-03-09 09:38:02

End at: 2019-03-09 09:38:32

Local clock offset: 0.386 ms

Remote clock offset: 1.655 ms

Below is generated by plot.py at 2019-03-09 09:54:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 33.742 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 33.742 ms

Loss rate: 0.23%

Run 5: Report of WebRTC media — Data Link

