

## Pantheon Report

Generated at 2019-01-25 12:54:58 (UTC).

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

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

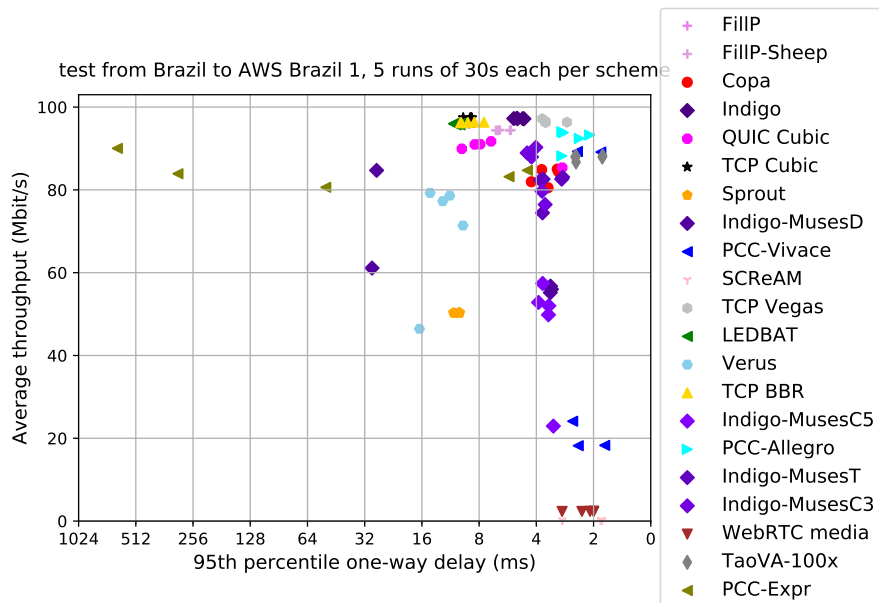
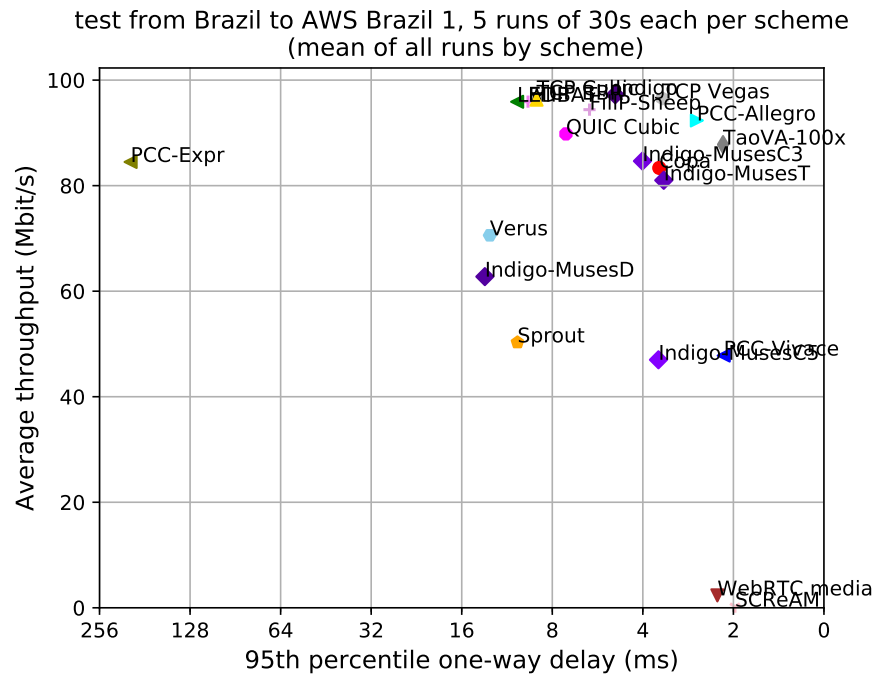
### System info:

```
Linux 4.15.0-1031-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 @ 0b8e9a949603c3842368430acf469eec3b941f9f
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ d9c5ea33091330aca25ecd105ab2db6d34d5c40d
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	96.30	9.02	0.08
Copa	5	83.36	3.53	0.02
TCP Cubic	5	97.15	9.01	0.05
FillP	5	95.92	9.63	0.03
FillP-Sheep	5	94.40	6.02	0.02
Indigo	5	97.22	4.94	0.02
Indigo-MusesC3	5	84.66	4.01	0.02
Indigo-MusesC5	5	47.00	3.55	0.01
Indigo-MusesD	5	62.76	13.41	0.36
Indigo-MusesT	5	81.01	3.41	0.02
LEDBAT	5	95.89	10.47	0.08
PCC-Allegro	5	92.35	2.65	0.02
PCC-Expr	5	84.49	201.83	1.15
QUIC Cubic	5	89.81	7.21	0.02
SCReAM	5	0.22	1.97	0.00
Sprout	5	50.29	10.44	0.03
TaoVA-100x	5	87.79	2.17	0.02
TCP Vegas	5	96.55	3.45	0.01
Verus	5	70.59	12.91	0.04
PCC-Vivace	5	47.80	2.15	0.02
WebRTC media	5	2.35	2.26	0.00



Run 1: Statistics of TCP BBR

Start at: 2019-01-25 10:56:19

End at: 2019-01-25 10:56:49

Local clock offset: 1.373 ms

Remote clock offset: 0.063 ms

# Below is generated by plot.py at 2019-01-25 12:42:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.36 Mbit/s

95th percentile per-packet one-way delay: 7.548 ms

Loss rate: 0.03%

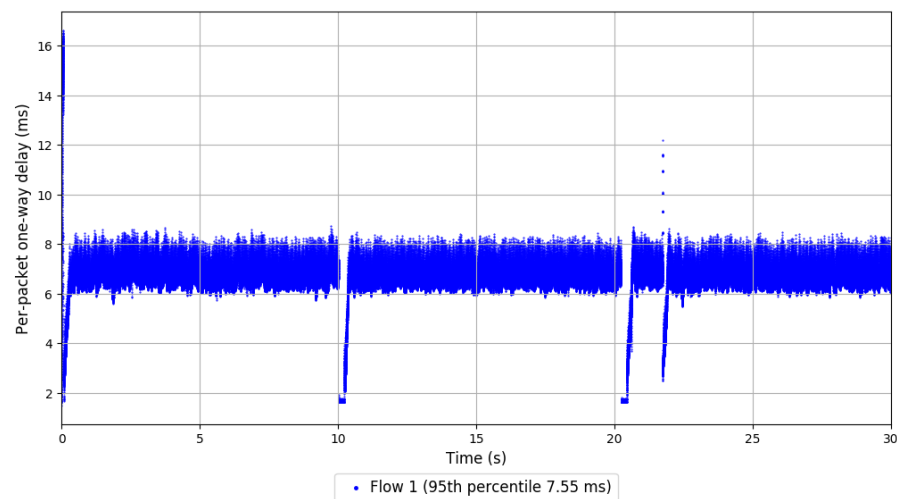
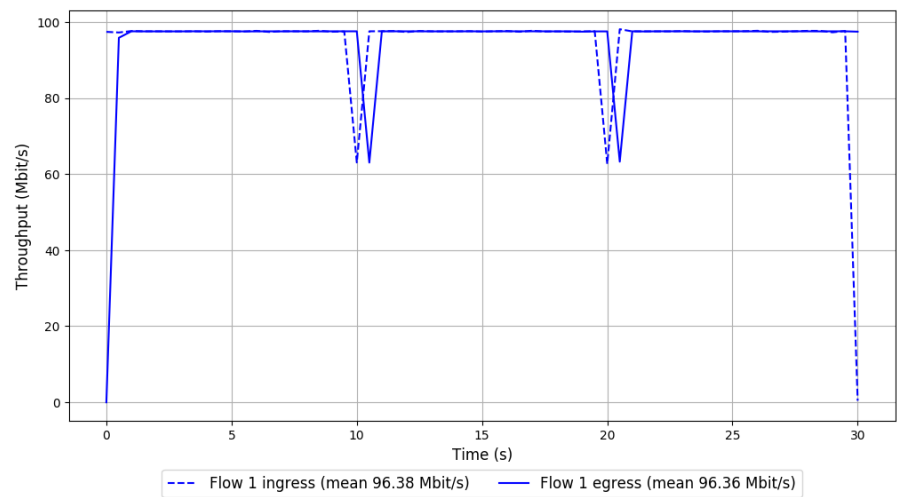
-- Flow 1:

Average throughput: 96.36 Mbit/s

95th percentile per-packet one-way delay: 7.548 ms

Loss rate: 0.03%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-01-25 11:20:01

End at: 2019-01-25 11:20:31

Local clock offset: -2.916 ms

Remote clock offset: 0.398 ms

# Below is generated by plot.py at 2019-01-25 12:42:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 9.999 ms

Loss rate: 0.11%

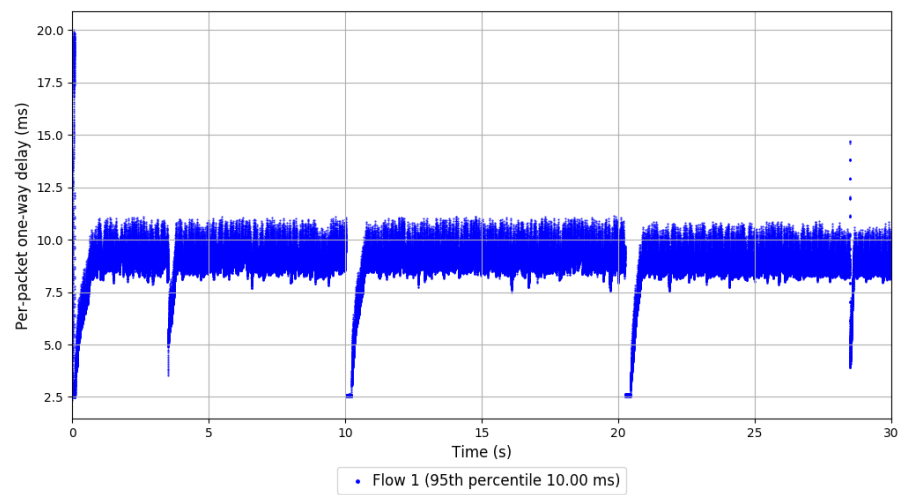
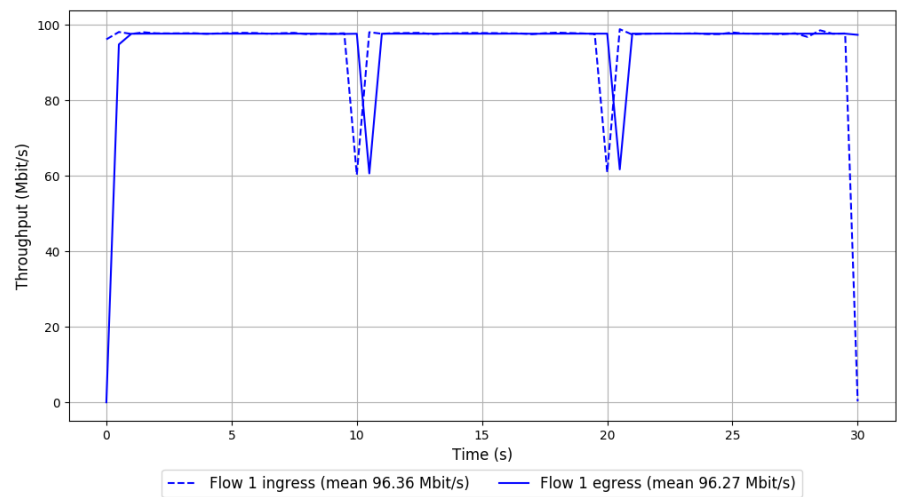
-- Flow 1:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 9.999 ms

Loss rate: 0.11%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-01-25 11:43:44

End at: 2019-01-25 11:44:14

Local clock offset: -3.82 ms

Remote clock offset: 0.765 ms

# Below is generated by plot.py at 2019-01-25 12:42:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 9.162 ms

Loss rate: 0.11%

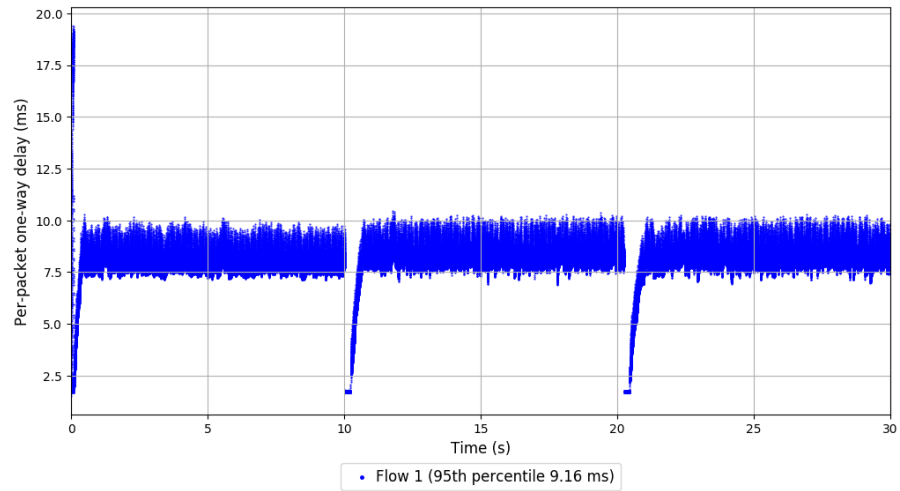
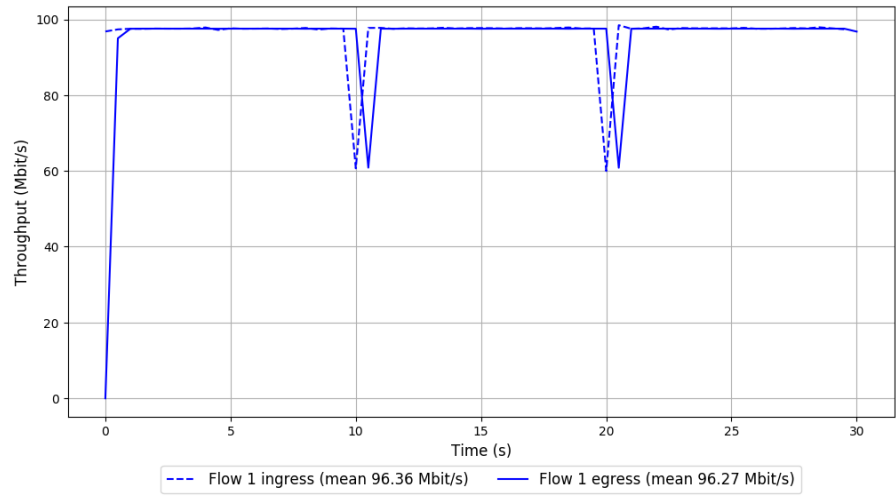
-- Flow 1:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 9.162 ms

Loss rate: 0.11%

### Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-01-25 12:07:24

End at: 2019-01-25 12:07:54

Local clock offset: -2.913 ms

Remote clock offset: 1.033 ms

# Below is generated by plot.py at 2019-01-25 12:42:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.36 Mbit/s

95th percentile per-packet one-way delay: 8.474 ms

Loss rate: 0.03%

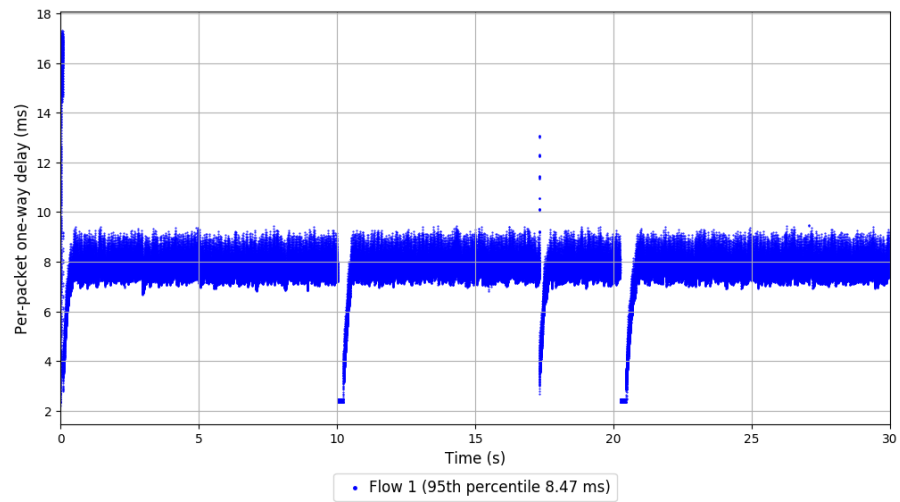
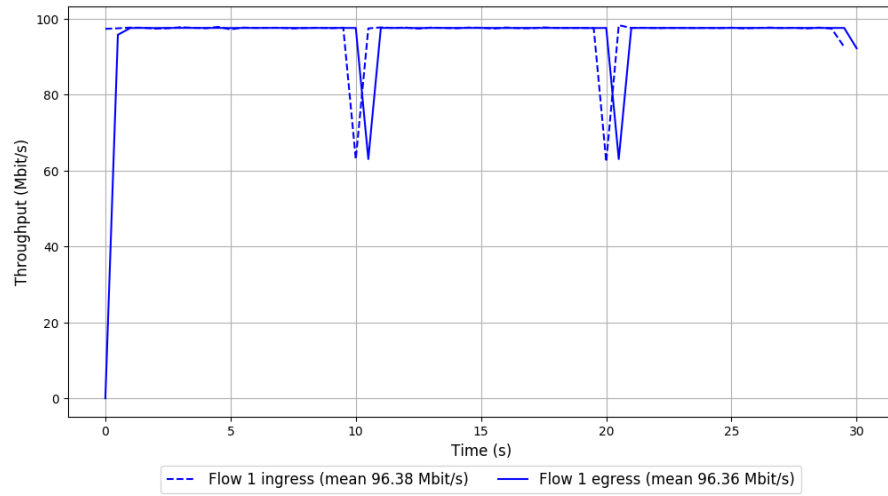
-- Flow 1:

Average throughput: 96.36 Mbit/s

95th percentile per-packet one-way delay: 8.474 ms

Loss rate: 0.03%

#### Run 4: Report of TCP BBR — Data Link





Run 5: Statistics of TCP BBR

Start at: 2019-01-25 12:31:08

End at: 2019-01-25 12:31:38

Local clock offset: -3.051 ms

Remote clock offset: 0.982 ms

# Below is generated by plot.py at 2019-01-25 12:42:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.23 Mbit/s

95th percentile per-packet one-way delay: 9.934 ms

Loss rate: 0.10%

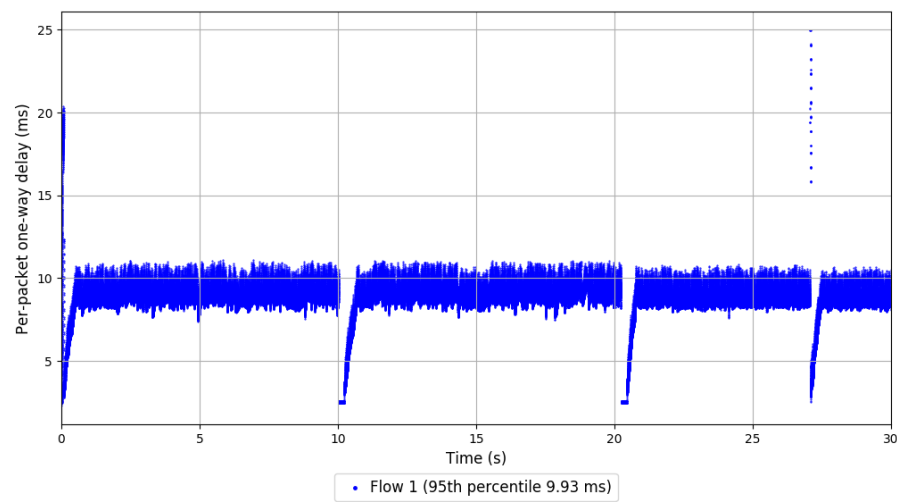
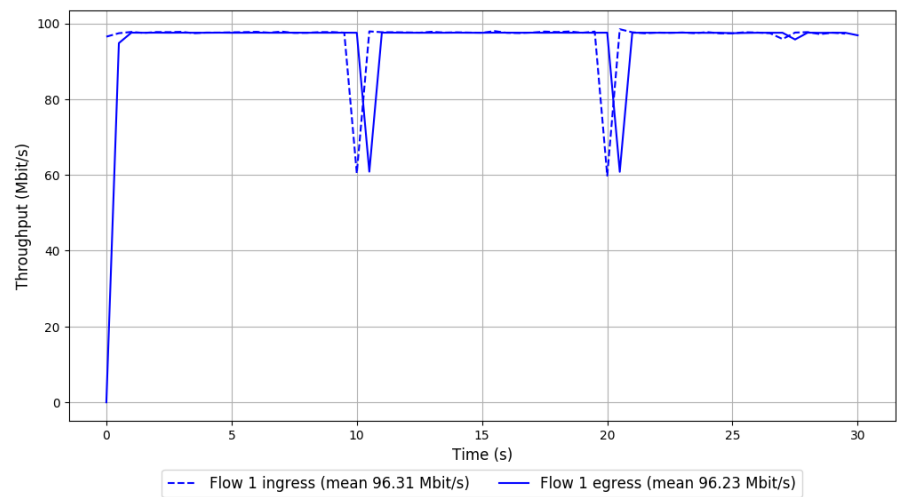
-- Flow 1:

Average throughput: 96.23 Mbit/s

95th percentile per-packet one-way delay: 9.934 ms

Loss rate: 0.10%

Run 5: Report of TCP BBR — Data Link

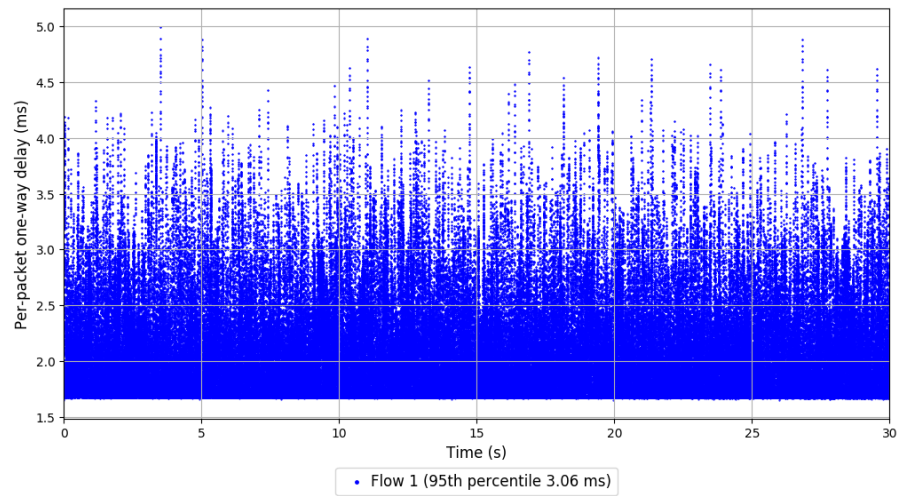
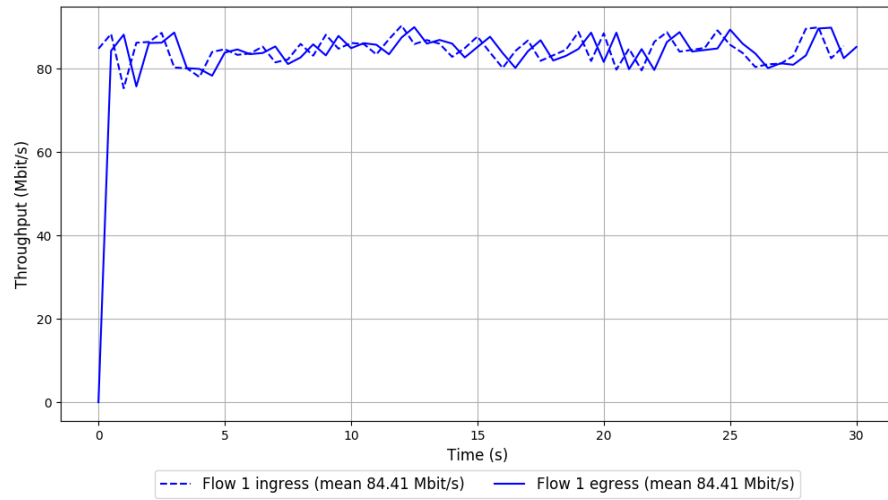


Run 1: Statistics of Copa

Start at: 2019-01-25 10:44:58  
End at: 2019-01-25 10:45:28  
Local clock offset: 1.003 ms  
Remote clock offset: -0.158 ms

# Below is generated by plot.py at 2019-01-25 12:43:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.41 Mbit/s  
95th percentile per-packet one-way delay: 3.061 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 84.41 Mbit/s  
95th percentile per-packet one-way delay: 3.061 ms  
Loss rate: 0.01%

### Run 1: Report of Copa — Data Link

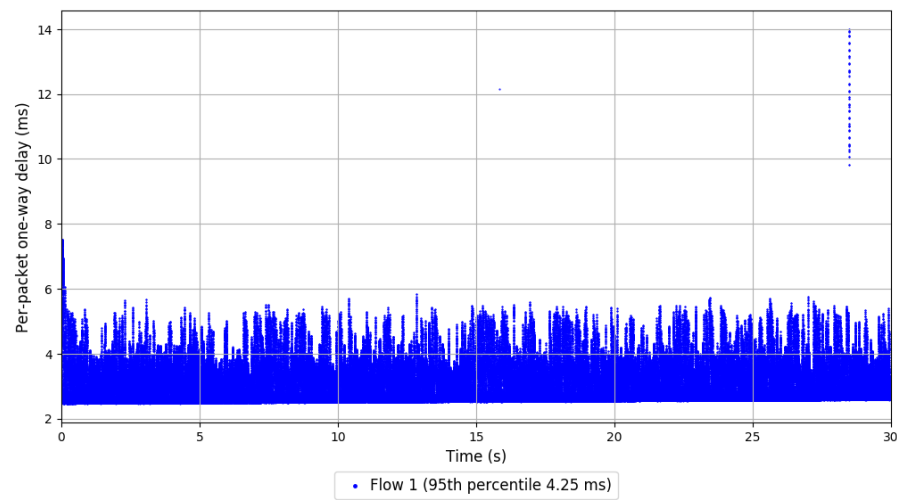
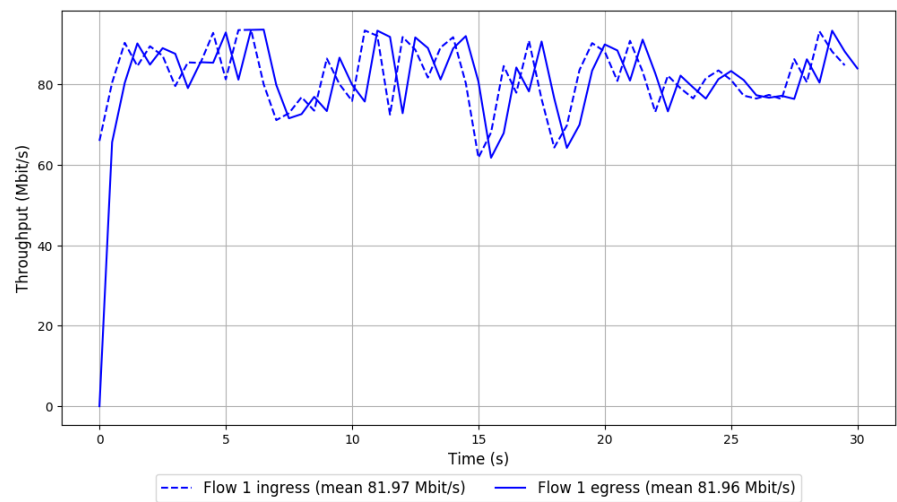


Run 2: Statistics of Copa

Start at: 2019-01-25 11:08:40  
End at: 2019-01-25 11:09:10  
Local clock offset: -1.316 ms  
Remote clock offset: 0.24 ms

# Below is generated by plot.py at 2019-01-25 12:43:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 81.96 Mbit/s  
95th percentile per-packet one-way delay: 4.250 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 81.96 Mbit/s  
95th percentile per-packet one-way delay: 4.250 ms  
Loss rate: 0.03%

Run 2: Report of Copa — Data Link

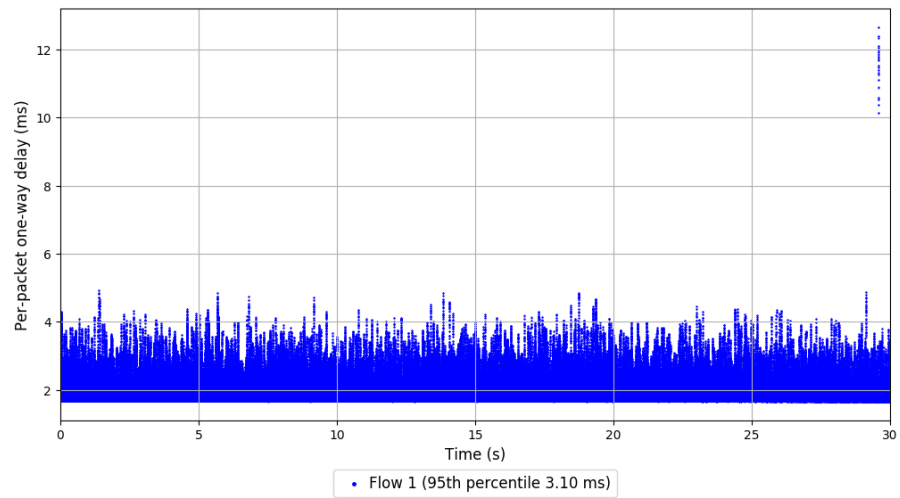
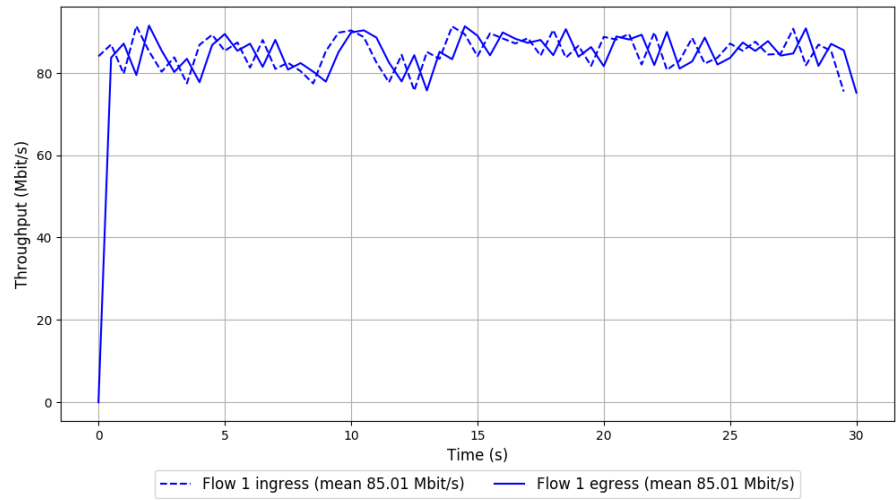


Run 3: Statistics of Copa

Start at: 2019-01-25 11:32:20  
End at: 2019-01-25 11:32:50  
Local clock offset: -4.098 ms  
Remote clock offset: 0.529 ms

# Below is generated by plot.py at 2019-01-25 12:43:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.01 Mbit/s  
95th percentile per-packet one-way delay: 3.103 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 85.01 Mbit/s  
95th percentile per-packet one-way delay: 3.103 ms  
Loss rate: 0.01%

### Run 3: Report of Copa — Data Link



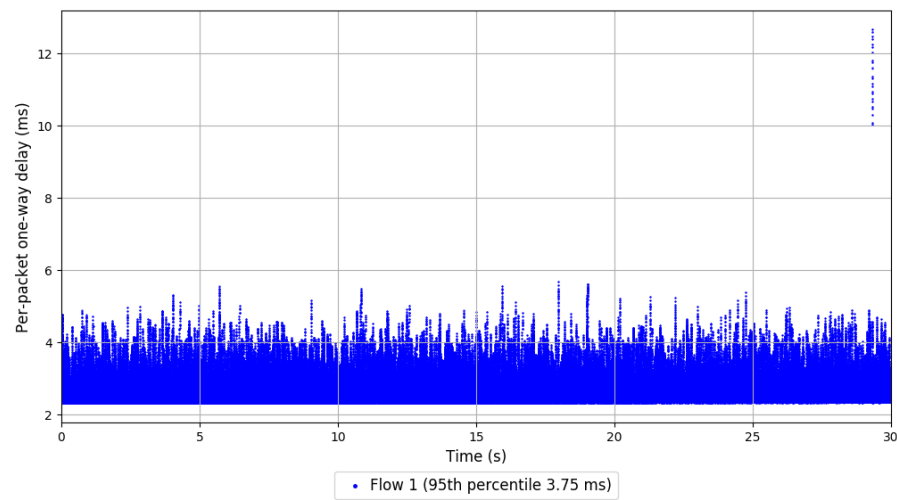
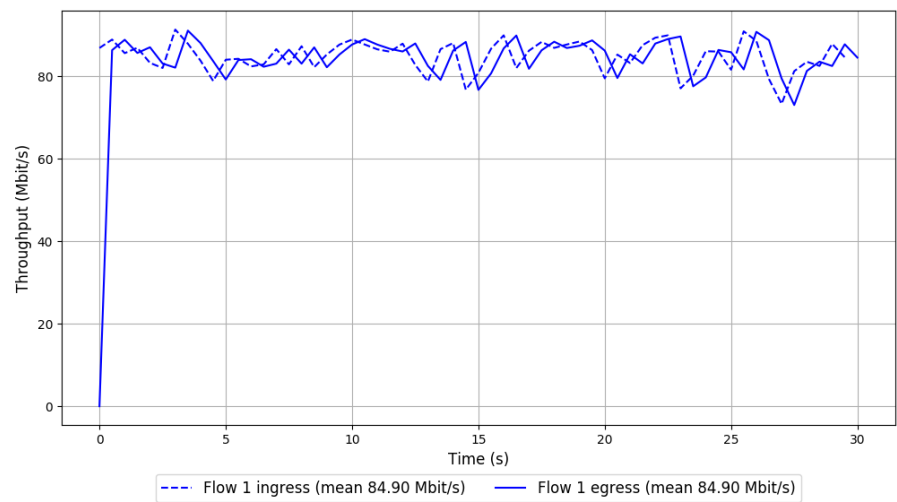


Run 4: Statistics of Copa

Start at: 2019-01-25 11:56:03  
End at: 2019-01-25 11:56:33  
Local clock offset: -3.171 ms  
Remote clock offset: 0.917 ms

# Below is generated by plot.py at 2019-01-25 12:44:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.90 Mbit/s  
95th percentile per-packet one-way delay: 3.750 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 84.90 Mbit/s  
95th percentile per-packet one-way delay: 3.750 ms  
Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-01-25 12:19:44

End at: 2019-01-25 12:20:14

Local clock offset: -3.605 ms

Remote clock offset: 1.039 ms

# Below is generated by plot.py at 2019-01-25 12:44:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.52 Mbit/s

95th percentile per-packet one-way delay: 3.472 ms

Loss rate: 0.02%

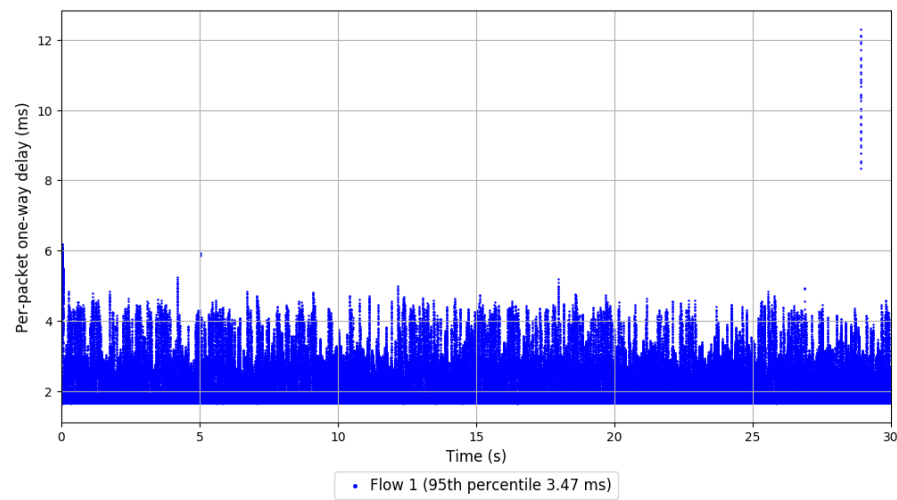
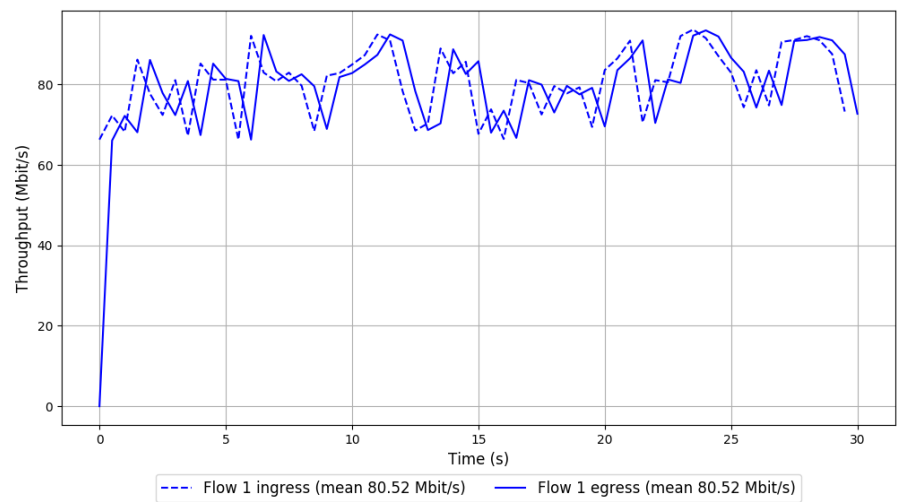
-- Flow 1:

Average throughput: 80.52 Mbit/s

95th percentile per-packet one-way delay: 3.472 ms

Loss rate: 0.02%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-01-25 10:49:36

End at: 2019-01-25 10:50:06

Local clock offset: 1.064 ms

Remote clock offset: -0.0 ms

# Below is generated by plot.py at 2019-01-25 12:44:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.03 Mbit/s

95th percentile per-packet one-way delay: 8.813 ms

Loss rate: 0.06%

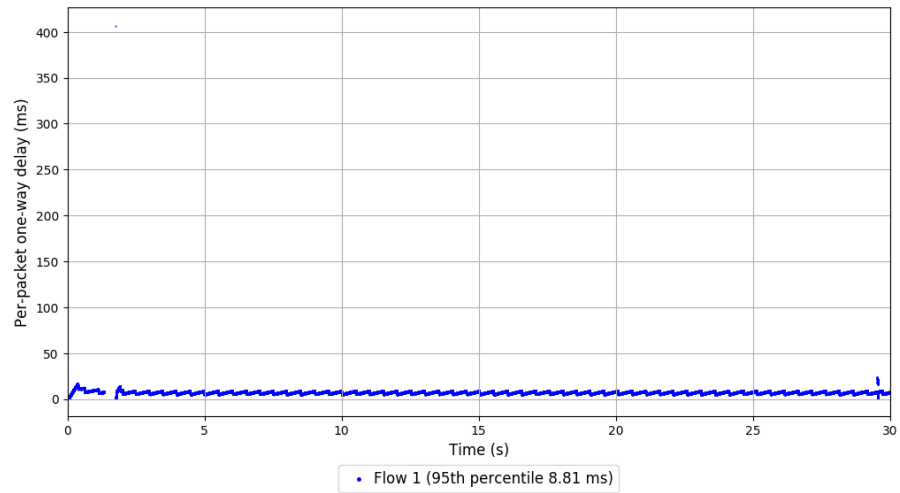
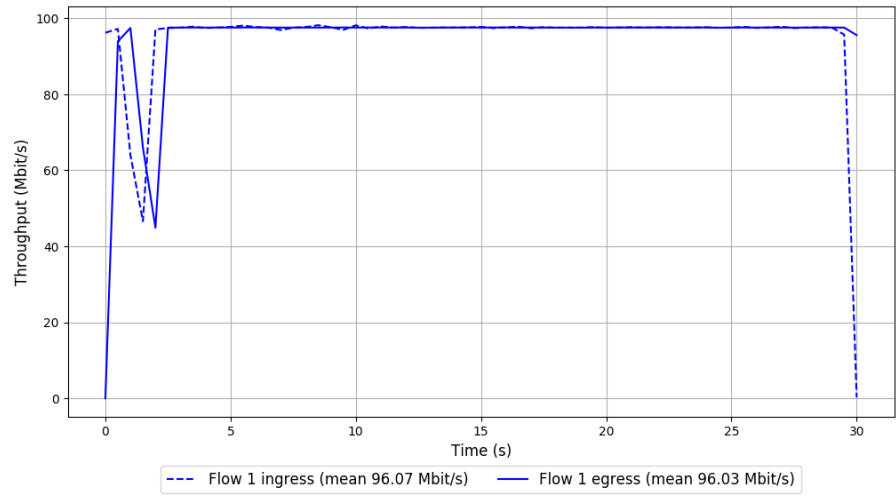
-- Flow 1:

Average throughput: 96.03 Mbit/s

95th percentile per-packet one-way delay: 8.813 ms

Loss rate: 0.06%

### Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-01-25 11:13:18

End at: 2019-01-25 11:13:48

Local clock offset: -2.931 ms

Remote clock offset: 0.262 ms

# Below is generated by plot.py at 2019-01-25 12:44:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.39 Mbit/s

95th percentile per-packet one-way delay: 8.929 ms

Loss rate: 0.05%

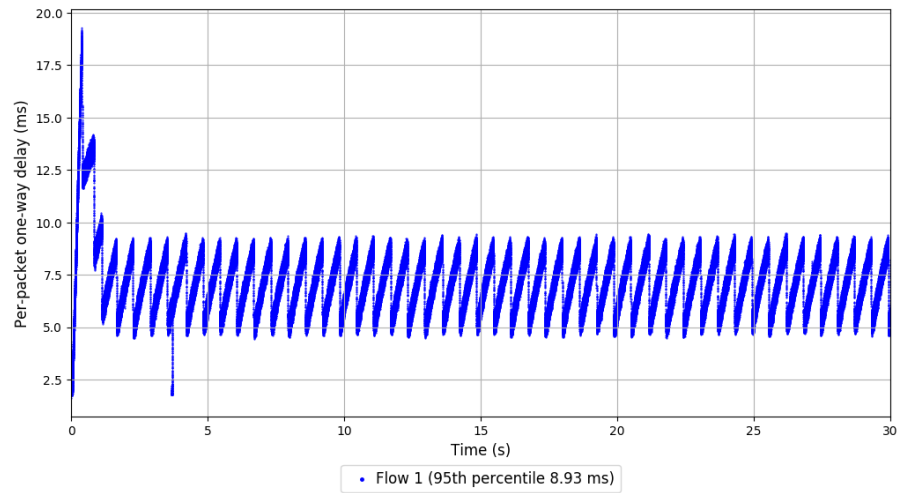
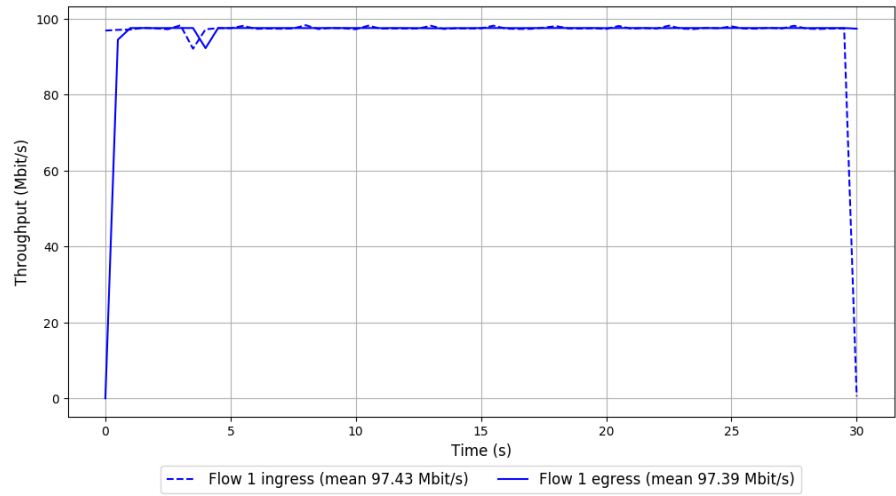
-- Flow 1:

Average throughput: 97.39 Mbit/s

95th percentile per-packet one-way delay: 8.929 ms

Loss rate: 0.05%

## Run 2: Report of TCP Cubic — Data Link





Run 3: Statistics of TCP Cubic

Start at: 2019-01-25 11:36:58

End at: 2019-01-25 11:37:28

Local clock offset: -3.905 ms

Remote clock offset: 0.718 ms

# Below is generated by plot.py at 2019-01-25 12:44:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.45 Mbit/s

95th percentile per-packet one-way delay: 8.753 ms

Loss rate: 0.06%

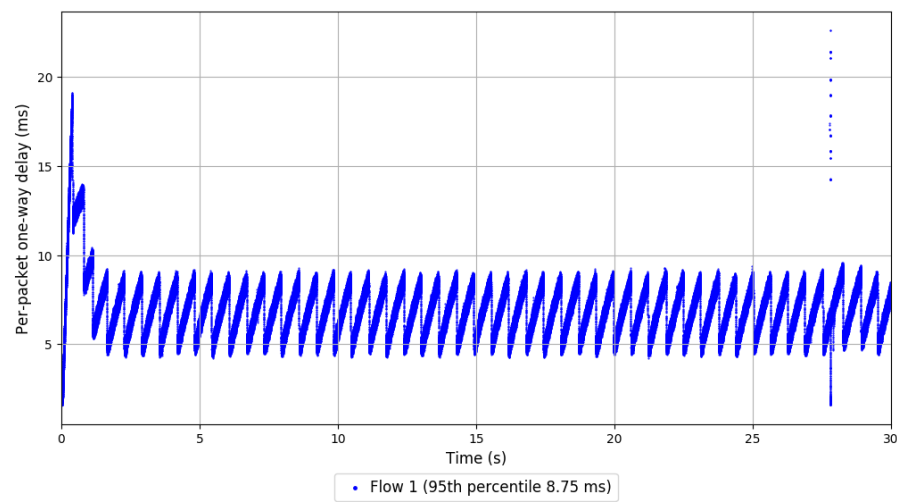
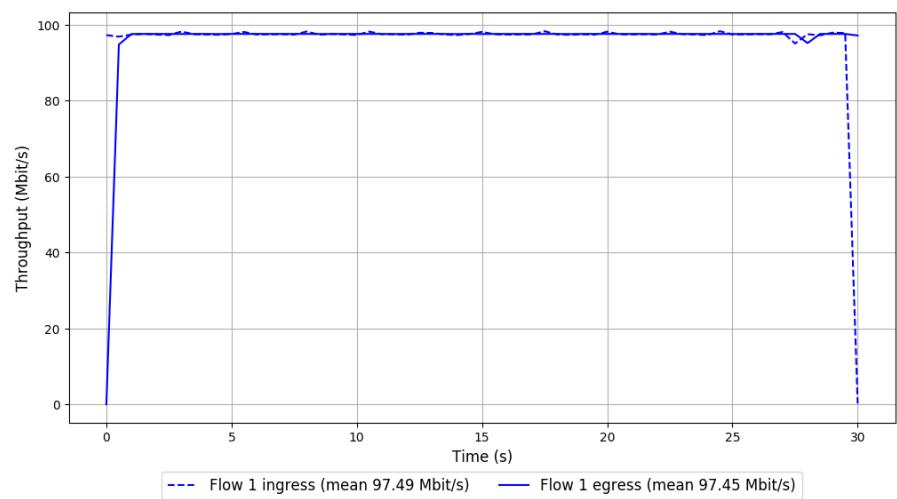
-- Flow 1:

Average throughput: 97.45 Mbit/s

95th percentile per-packet one-way delay: 8.753 ms

Loss rate: 0.06%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-01-25 12:00:42

End at: 2019-01-25 12:01:12

Local clock offset: -3.913 ms

Remote clock offset: 0.955 ms

# Below is generated by plot.py at 2019-01-25 12:44:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.44 Mbit/s

95th percentile per-packet one-way delay: 8.841 ms

Loss rate: 0.05%

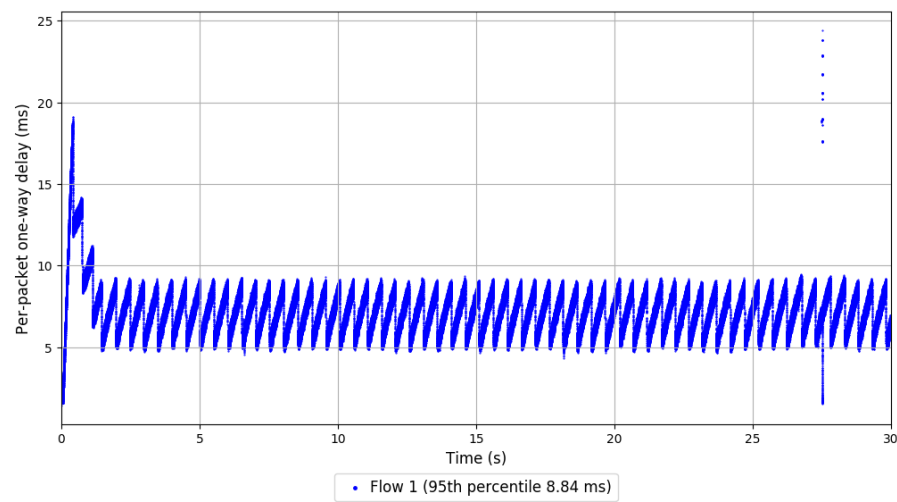
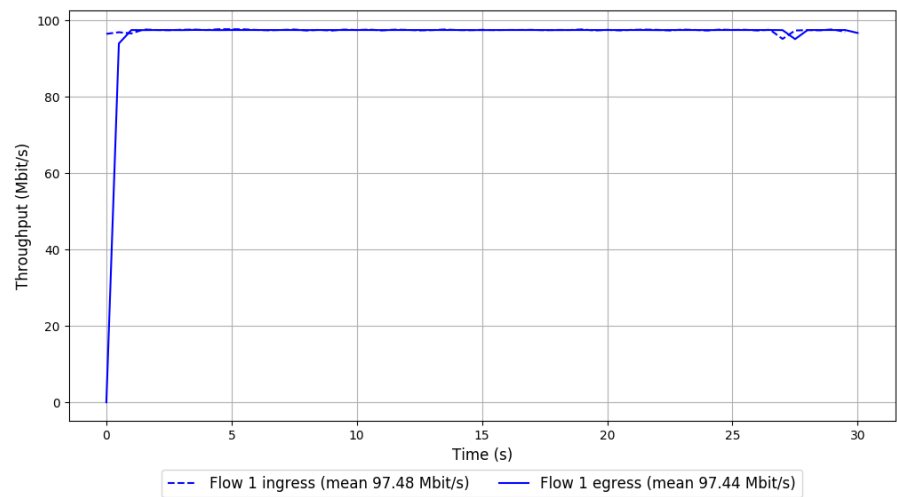
-- Flow 1:

Average throughput: 97.44 Mbit/s

95th percentile per-packet one-way delay: 8.841 ms

Loss rate: 0.05%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-01-25 12:24:22

End at: 2019-01-25 12:24:52

Local clock offset: -2.917 ms

Remote clock offset: 0.948 ms

# Below is generated by plot.py at 2019-01-25 12:44:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 9.700 ms

Loss rate: 0.05%

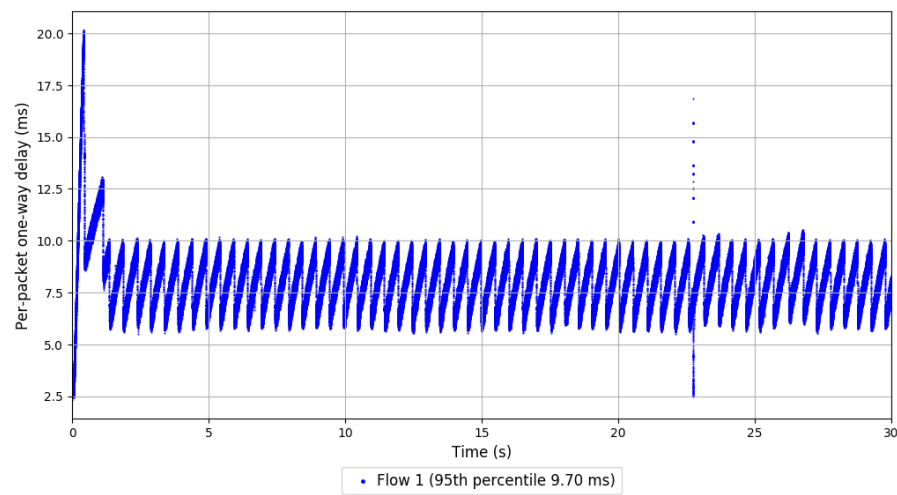
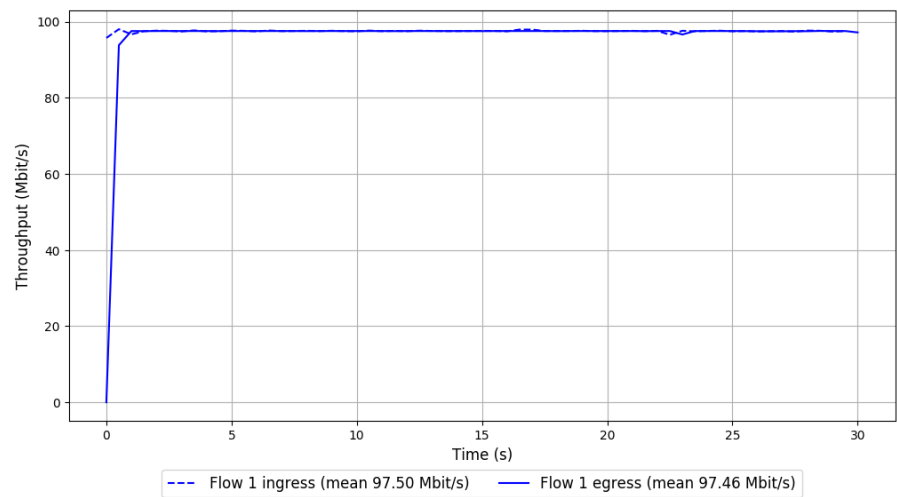
-- Flow 1:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 9.700 ms

Loss rate: 0.05%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-01-25 11:00:51

End at: 2019-01-25 11:01:21

Local clock offset: 0.814 ms

Remote clock offset: 0.063 ms

# Below is generated by plot.py at 2019-01-25 12:44:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 9.517 ms

Loss rate: 0.04%

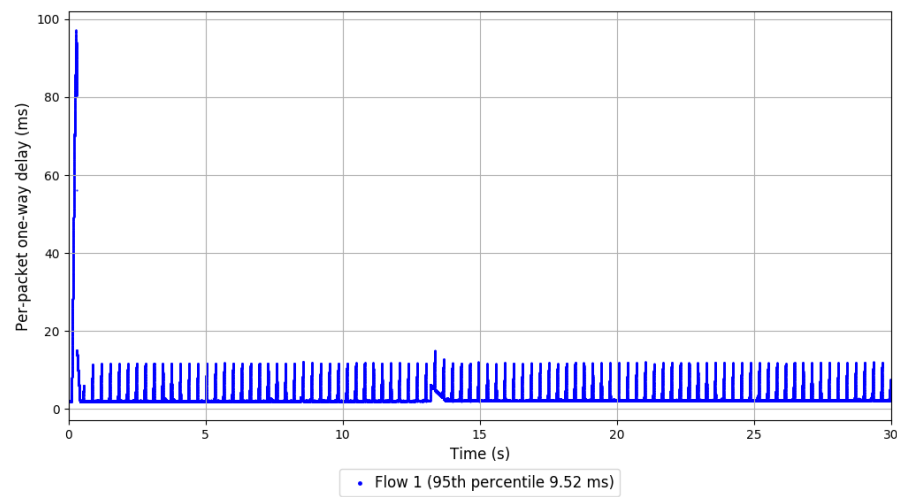
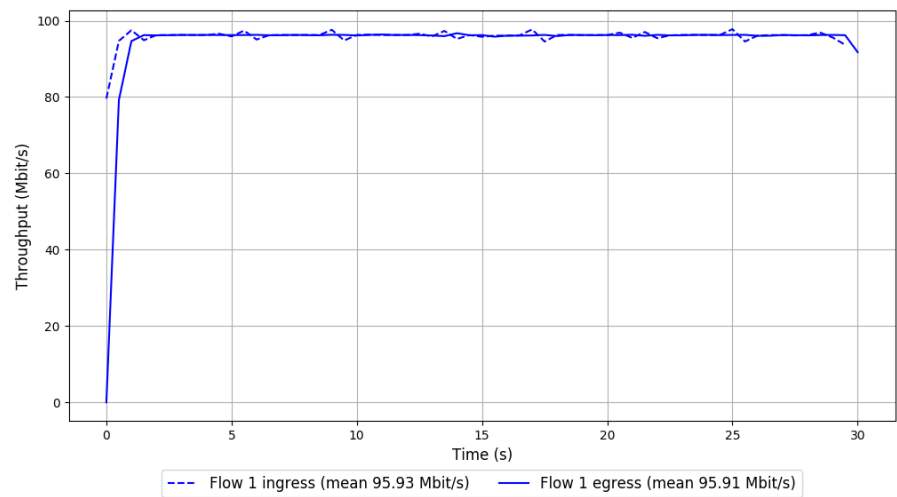
-- Flow 1:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 9.517 ms

Loss rate: 0.04%

Run 1: Report of FillP — Data Link





Run 2: Statistics of FillP

Start at: 2019-01-25 11:24:33

End at: 2019-01-25 11:25:03

Local clock offset: -4.051 ms

Remote clock offset: 0.558 ms

# Below is generated by plot.py at 2019-01-25 12:44:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 9.965 ms

Loss rate: 0.02%

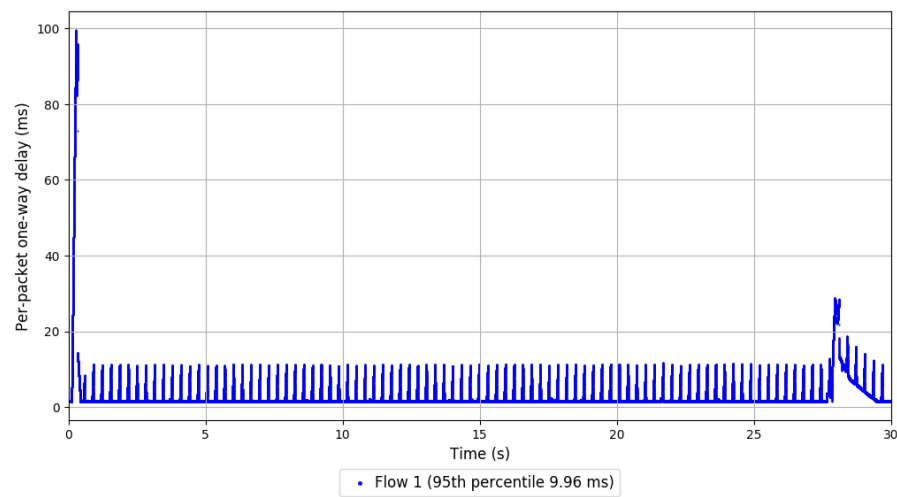
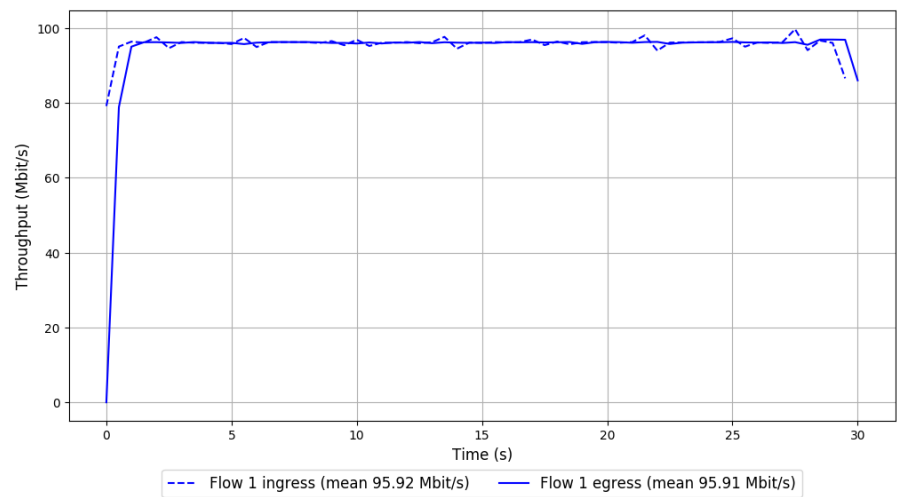
-- Flow 1:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 9.965 ms

Loss rate: 0.02%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-01-25 11:48:15

End at: 2019-01-25 11:48:45

Local clock offset: -3.839 ms

Remote clock offset: 0.824 ms

# Below is generated by plot.py at 2019-01-25 12:44:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 9.014 ms

Loss rate: 0.03%

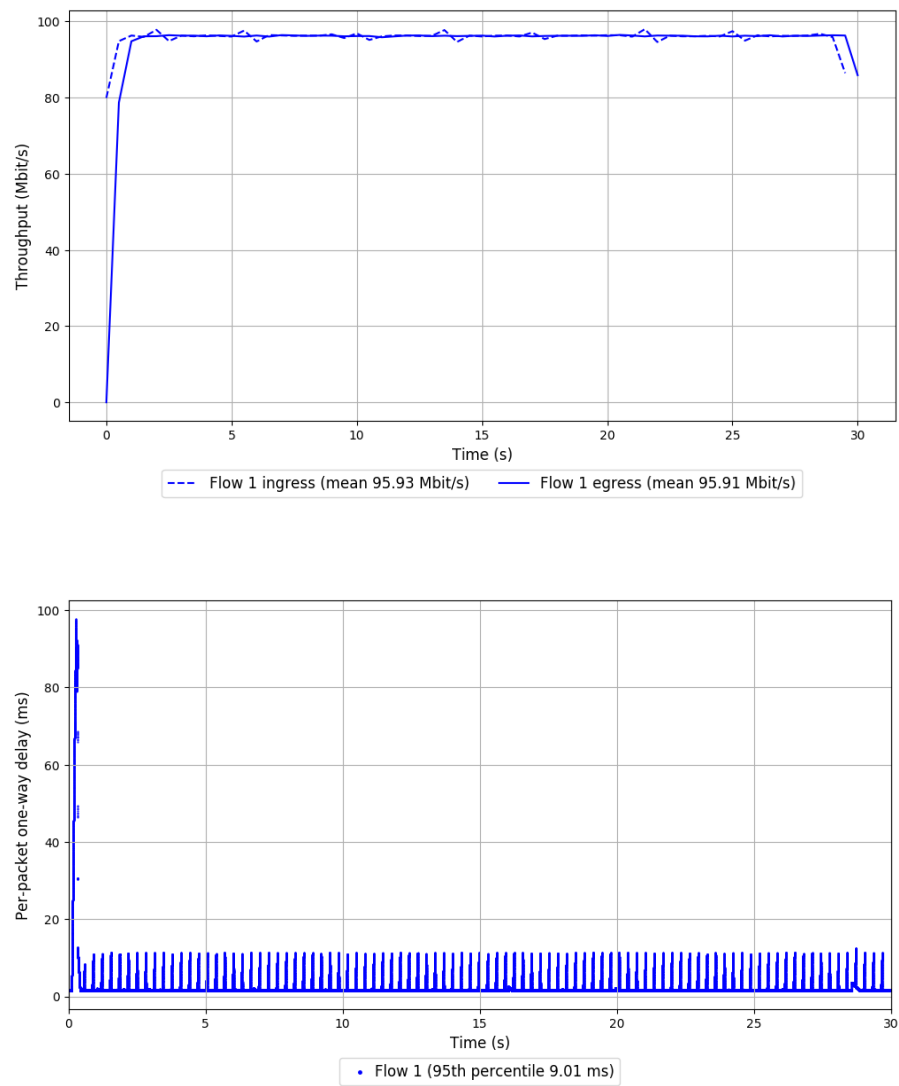
-- Flow 1:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 9.014 ms

Loss rate: 0.03%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-01-25 12:11:56

End at: 2019-01-25 12:12:26

Local clock offset: -2.877 ms

Remote clock offset: 1.019 ms

# Below is generated by plot.py at 2019-01-25 12:44:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.97 Mbit/s

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

Loss rate: 0.04%

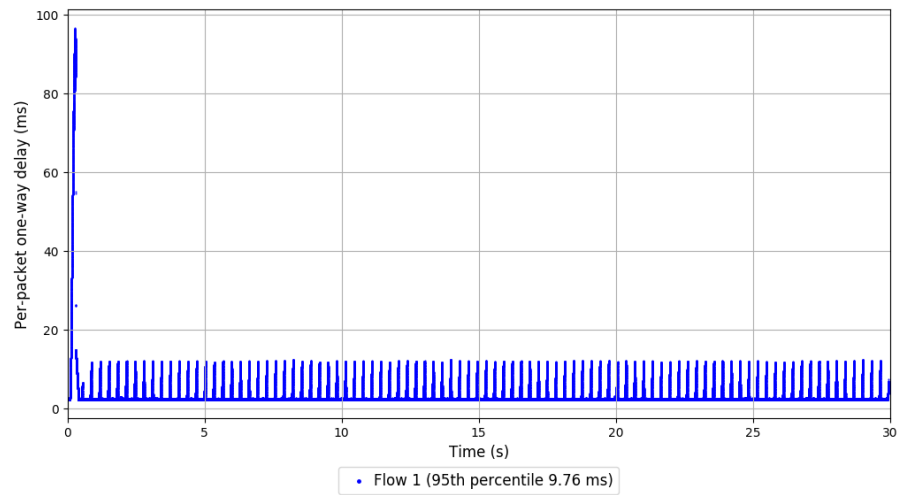
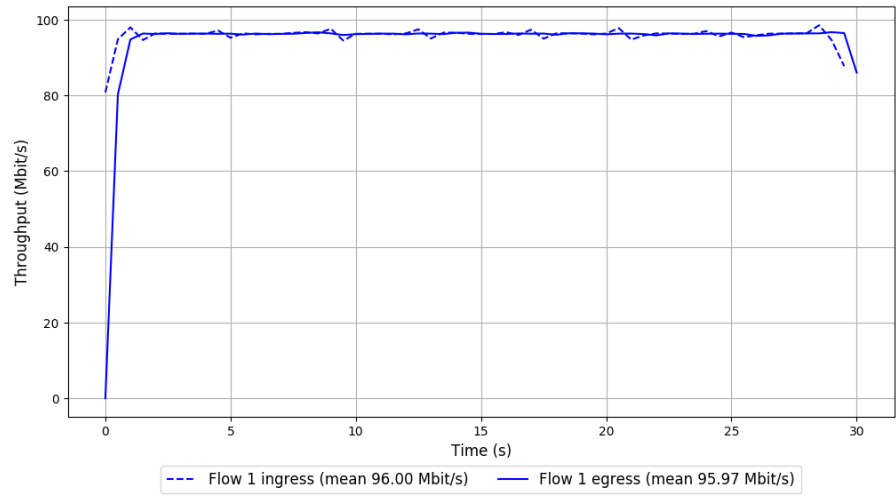
-- Flow 1:

Average throughput: 95.97 Mbit/s

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

Loss rate: 0.04%

#### Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-01-25 12:35:41

End at: 2019-01-25 12:36:11

Local clock offset: -3.469 ms

Remote clock offset: 0.847 ms

# Below is generated by plot.py at 2019-01-25 12:45:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 9.920 ms

Loss rate: 0.03%

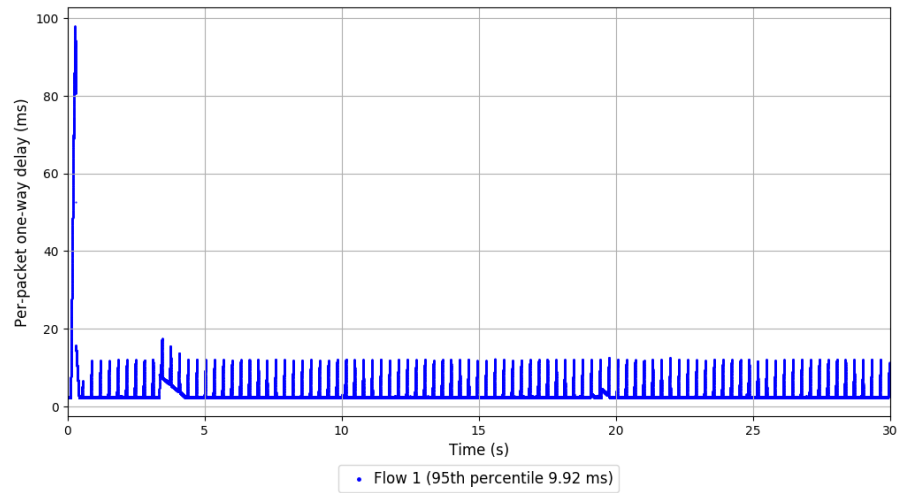
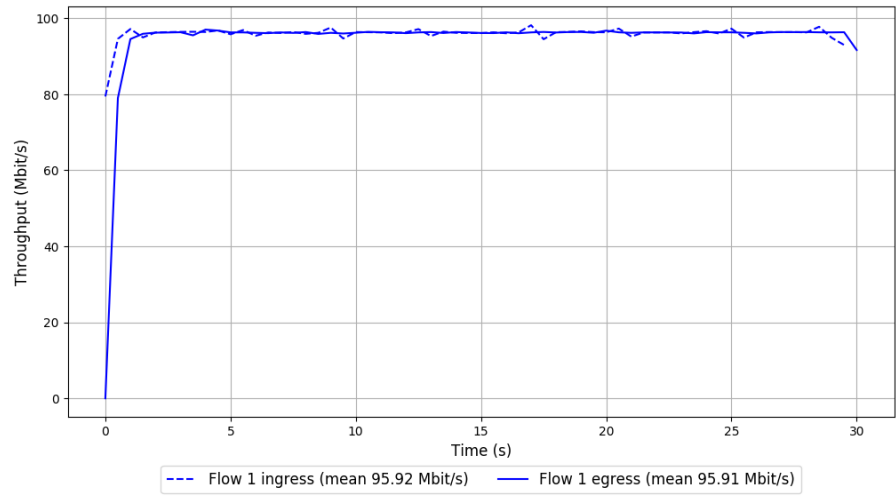
-- Flow 1:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 9.920 ms

Loss rate: 0.03%

### Run 5: Report of FillP — Data Link





Run 1: Statistics of FillP-Sheep

Start at: 2019-01-25 10:57:27

End at: 2019-01-25 10:57:57

Local clock offset: 2.164 ms

Remote clock offset: 0.092 ms

# Below is generated by plot.py at 2019-01-25 12:45:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.34 Mbit/s

95th percentile per-packet one-way delay: 6.370 ms

Loss rate: 0.02%

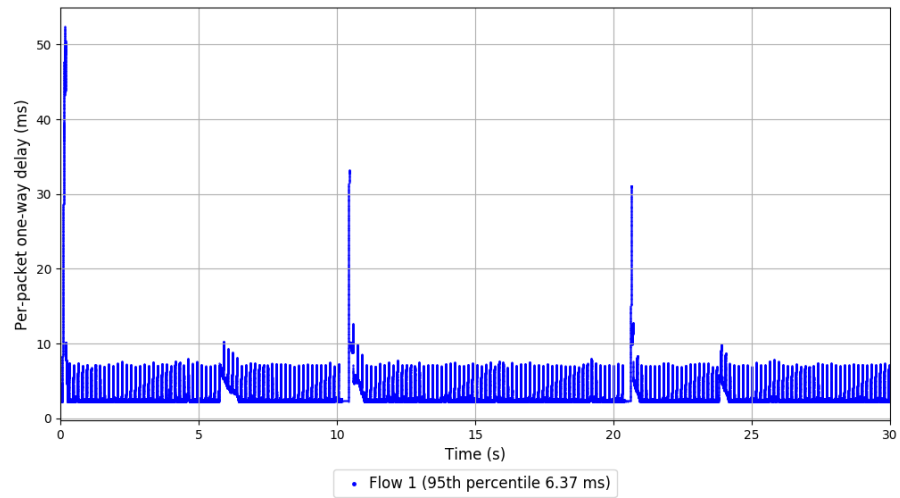
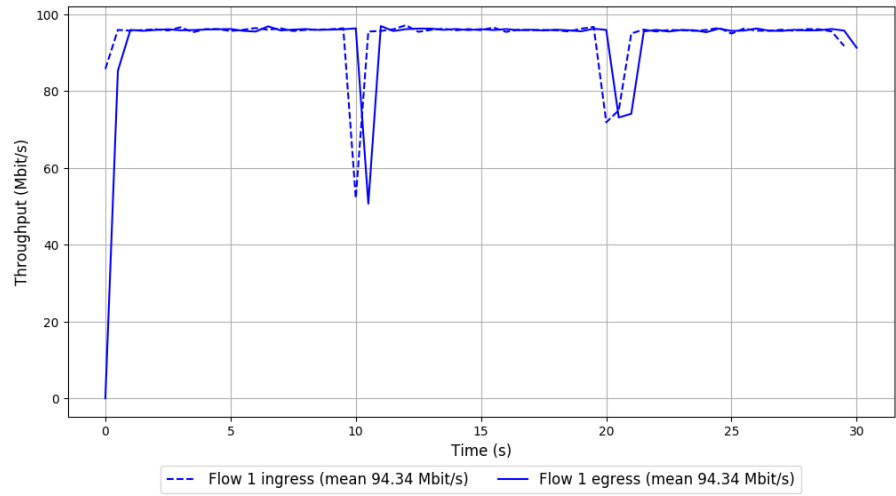
-- Flow 1:

Average throughput: 94.34 Mbit/s

95th percentile per-packet one-way delay: 6.370 ms

Loss rate: 0.02%

## Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-01-25 11:21:09

End at: 2019-01-25 11:21:39

Local clock offset: -3.783 ms

Remote clock offset: 0.457 ms

# Below is generated by plot.py at 2019-01-25 12:45:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.44 Mbit/s

95th percentile per-packet one-way delay: 5.447 ms

Loss rate: 0.02%

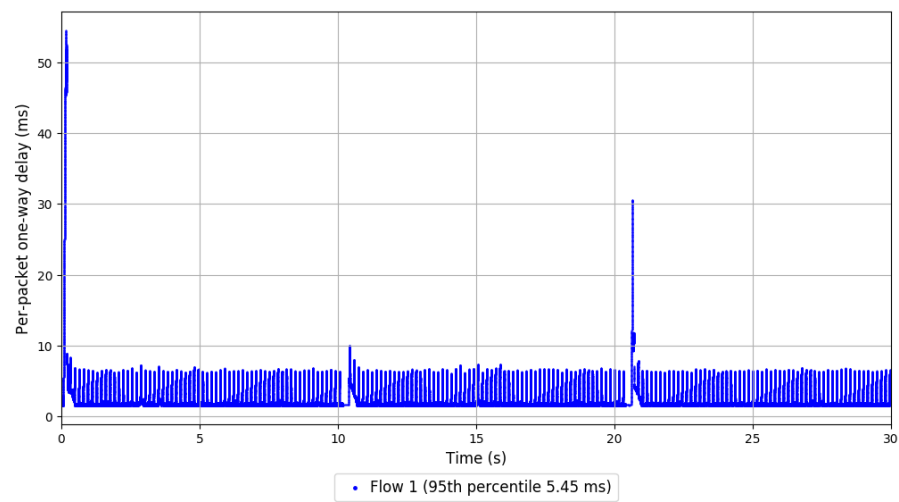
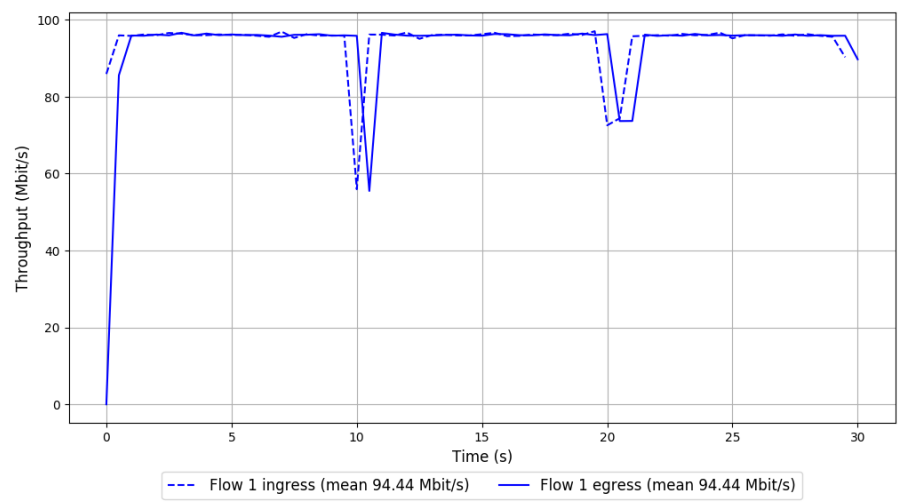
-- Flow 1:

Average throughput: 94.44 Mbit/s

95th percentile per-packet one-way delay: 5.447 ms

Loss rate: 0.02%

Run 2: Report of FillP-Sheep — Data Link

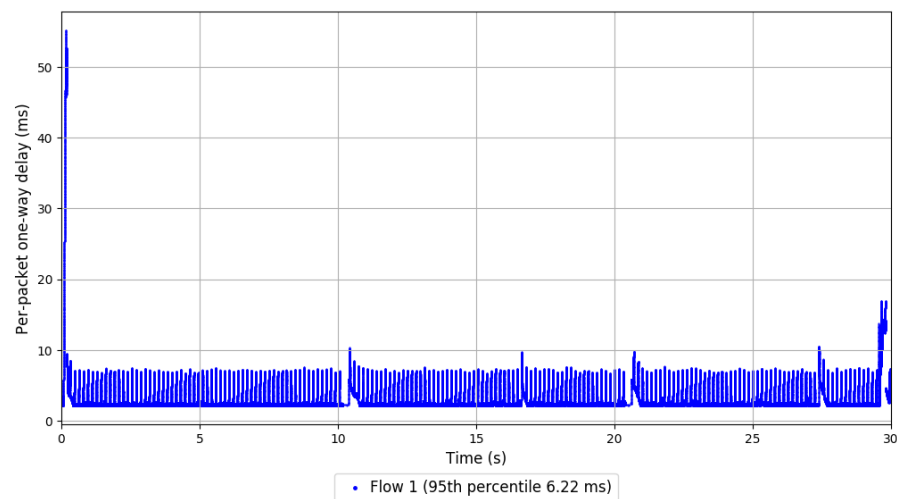
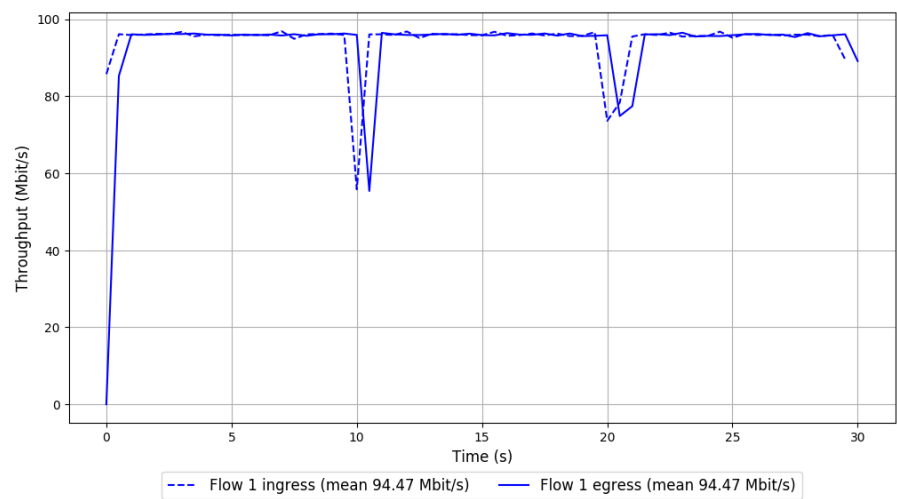


Run 3: Statistics of FillP-Sheep

Start at: 2019-01-25 11:44:52  
End at: 2019-01-25 11:45:22  
Local clock offset: -3.128 ms  
Remote clock offset: 0.851 ms

# Below is generated by plot.py at 2019-01-25 12:45:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.47 Mbit/s  
95th percentile per-packet one-way delay: 6.224 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 94.47 Mbit/s  
95th percentile per-packet one-way delay: 6.224 ms  
Loss rate: 0.02%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-01-25 12:08:32

End at: 2019-01-25 12:09:02

Local clock offset: -2.902 ms

Remote clock offset: 1.02 ms

# Below is generated by plot.py at 2019-01-25 12:46:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.40 Mbit/s

95th percentile per-packet one-way delay: 6.532 ms

Loss rate: 0.02%

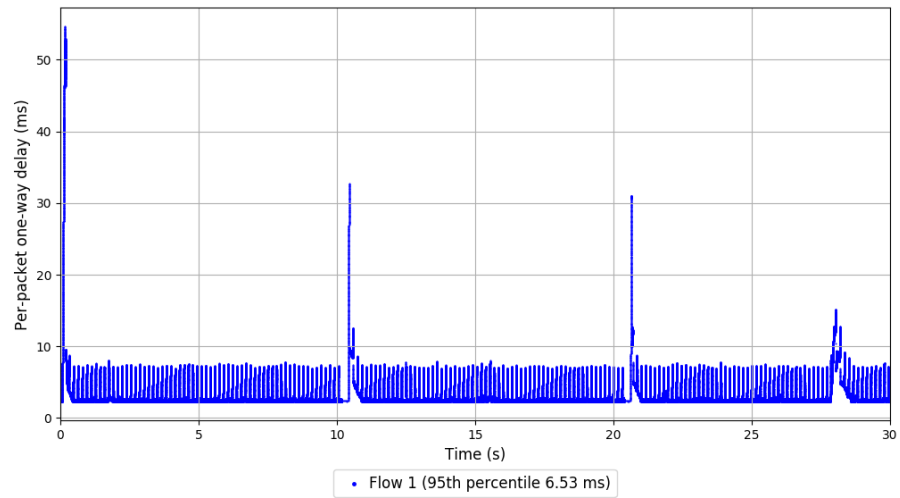
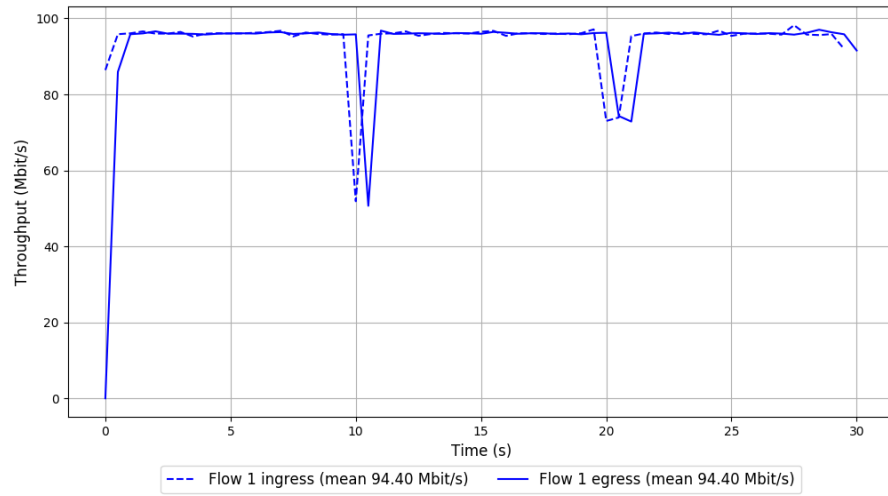
-- Flow 1:

Average throughput: 94.40 Mbit/s

95th percentile per-packet one-way delay: 6.532 ms

Loss rate: 0.02%

#### Run 4: Report of FillP-Sheep — Data Link





Run 5: Statistics of FillP-Sheep

Start at: 2019-01-25 12:32:16

End at: 2019-01-25 12:32:46

Local clock offset: -3.91 ms

Remote clock offset: 0.912 ms

# Below is generated by plot.py at 2019-01-25 12:46:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.36 Mbit/s

95th percentile per-packet one-way delay: 5.509 ms

Loss rate: 0.02%

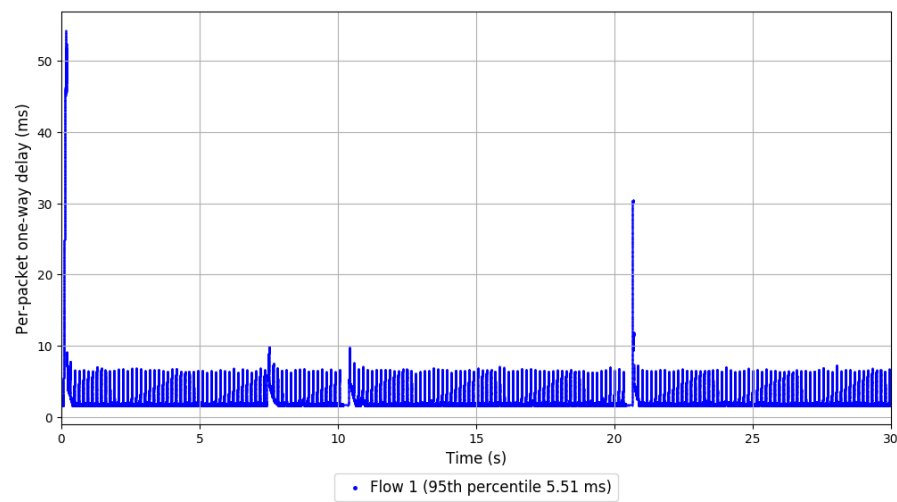
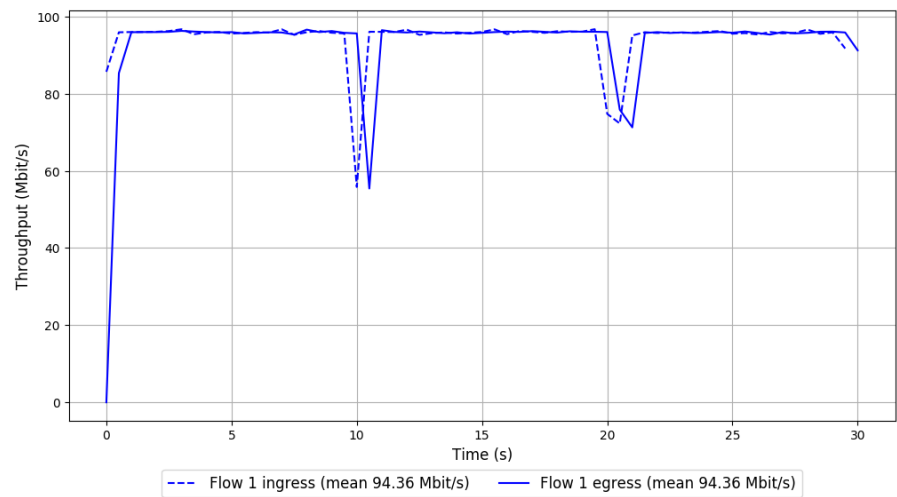
-- Flow 1:

Average throughput: 94.36 Mbit/s

95th percentile per-packet one-way delay: 5.509 ms

Loss rate: 0.02%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-01-25 10:46:08

End at: 2019-01-25 10:46:38

Local clock offset: 1.036 ms

Remote clock offset: -0.174 ms

# Below is generated by plot.py at 2019-01-25 12:46:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.17 Mbit/s

95th percentile per-packet one-way delay: 4.647 ms

Loss rate: 0.02%

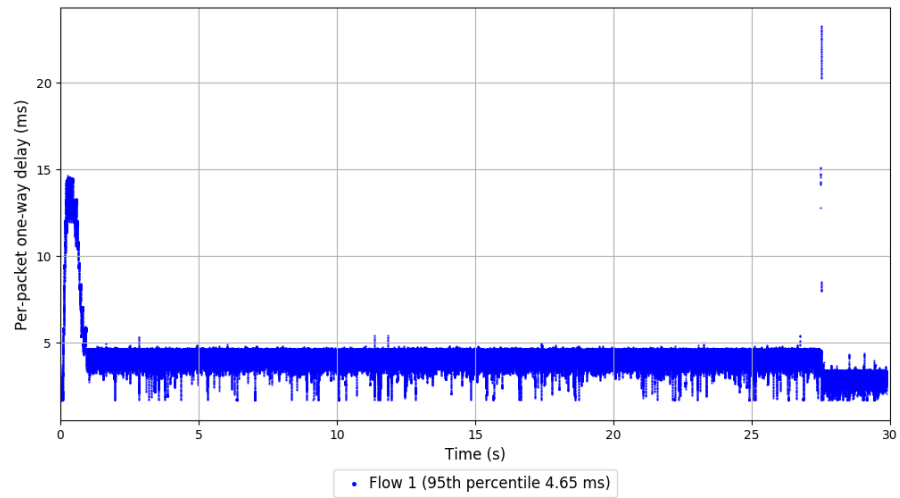
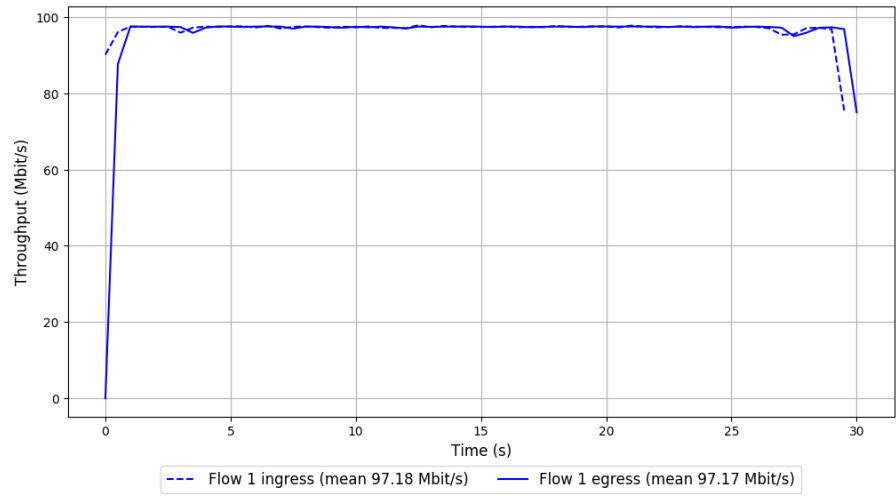
-- Flow 1:

Average throughput: 97.17 Mbit/s

95th percentile per-packet one-way delay: 4.647 ms

Loss rate: 0.02%

## Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-01-25 11:09:50

End at: 2019-01-25 11:10:20

Local clock offset: -2.301 ms

Remote clock offset: 0.291 ms

# Below is generated by plot.py at 2019-01-25 12:46:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.22 Mbit/s

95th percentile per-packet one-way delay: 4.714 ms

Loss rate: 0.02%

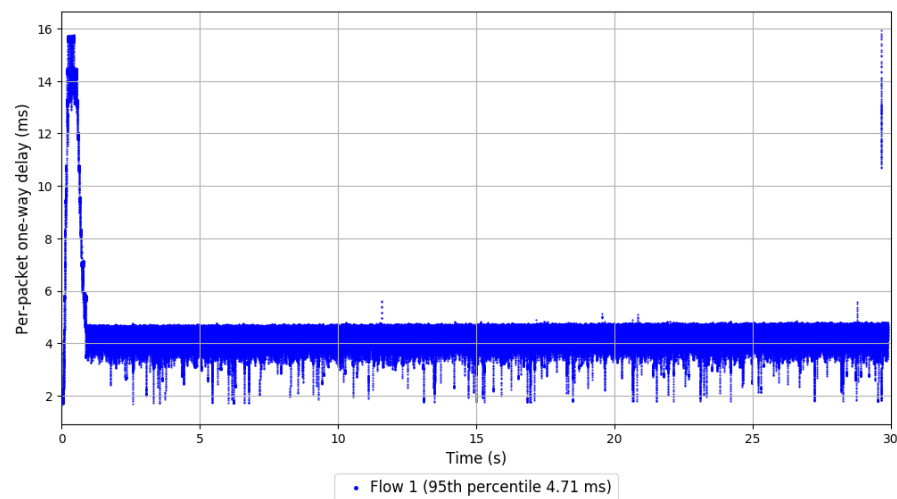
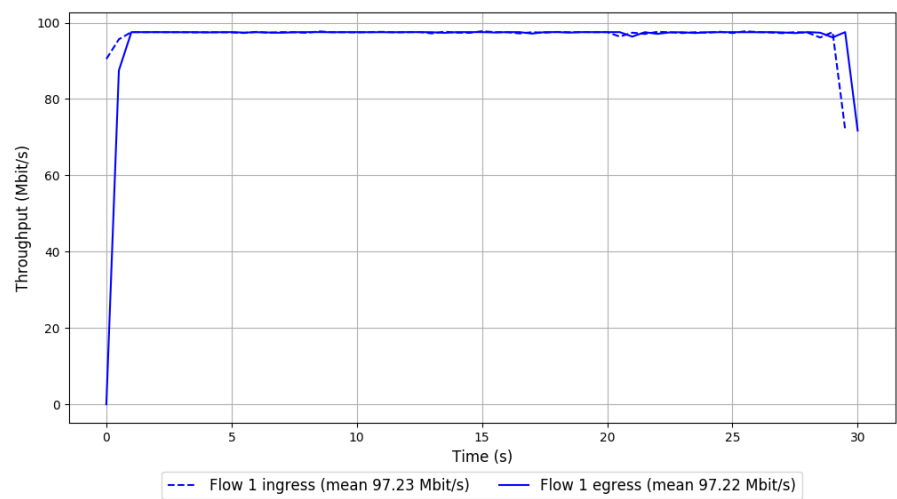
-- Flow 1:

Average throughput: 97.22 Mbit/s

95th percentile per-packet one-way delay: 4.714 ms

Loss rate: 0.02%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-01-25 11:33:30

End at: 2019-01-25 11:34:00

Local clock offset: -3.28 ms

Remote clock offset: 0.66 ms

# Below is generated by plot.py at 2019-01-25 12:46:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.23 Mbit/s

95th percentile per-packet one-way delay: 5.258 ms

Loss rate: 0.02%

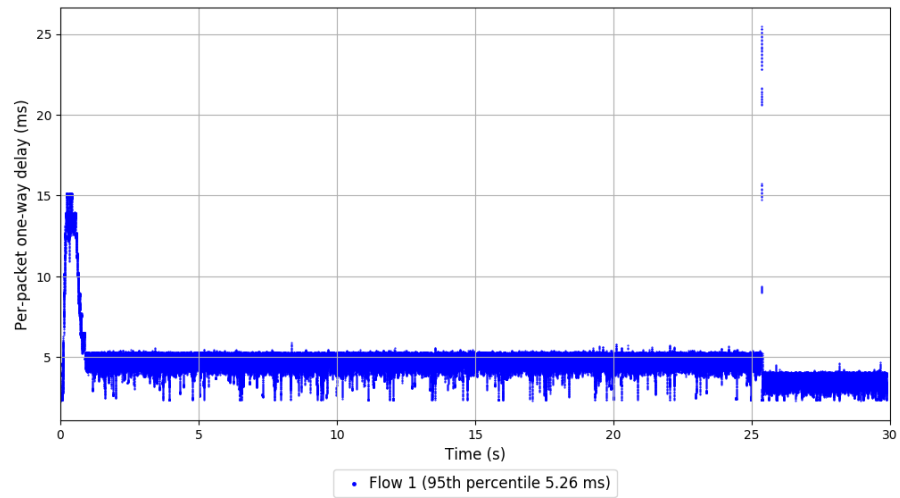
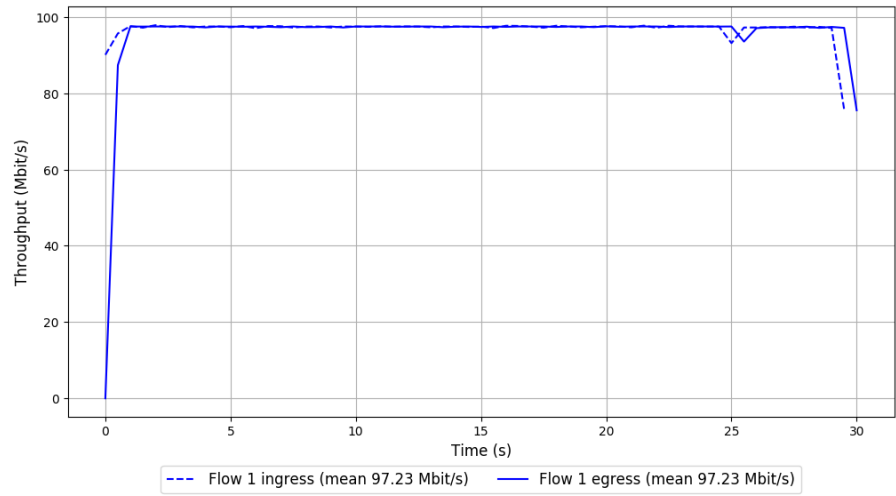
-- Flow 1:

Average throughput: 97.23 Mbit/s

95th percentile per-packet one-way delay: 5.258 ms

Loss rate: 0.02%

### Run 3: Report of Indigo — Data Link





Run 4: Statistics of Indigo

Start at: 2019-01-25 11:57:14

End at: 2019-01-25 11:57:44

Local clock offset: -3.172 ms

Remote clock offset: 0.91 ms

# Below is generated by plot.py at 2019-01-25 12:46:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.29 Mbit/s

95th percentile per-packet one-way delay: 5.073 ms

Loss rate: 0.02%

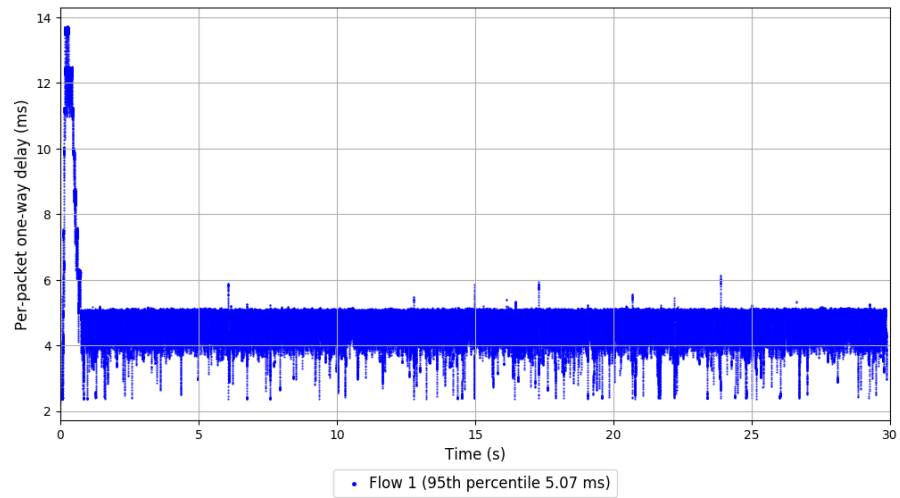
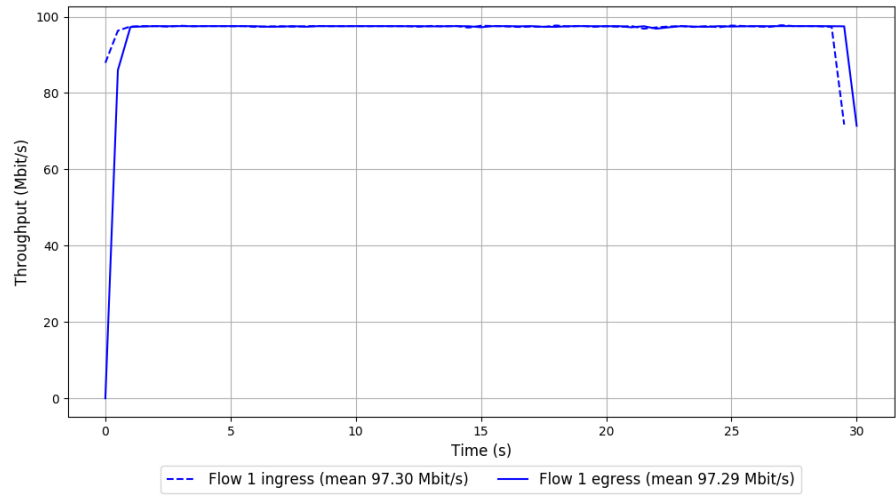
-- Flow 1:

Average throughput: 97.29 Mbit/s

95th percentile per-packet one-way delay: 5.073 ms

Loss rate: 0.02%

#### Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-01-25 12:20:54

End at: 2019-01-25 12:21:24

Local clock offset: -2.899 ms

Remote clock offset: 1.09 ms

# Below is generated by plot.py at 2019-01-25 12:46:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 5.017 ms

Loss rate: 0.02%

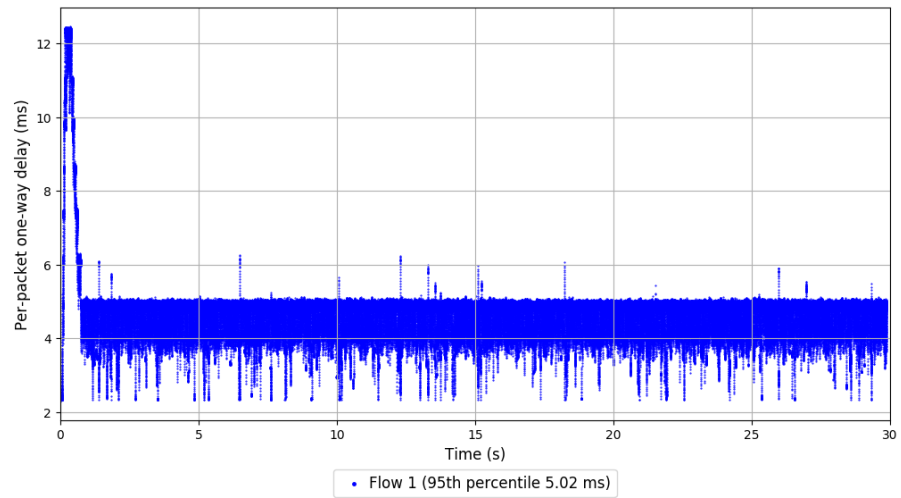
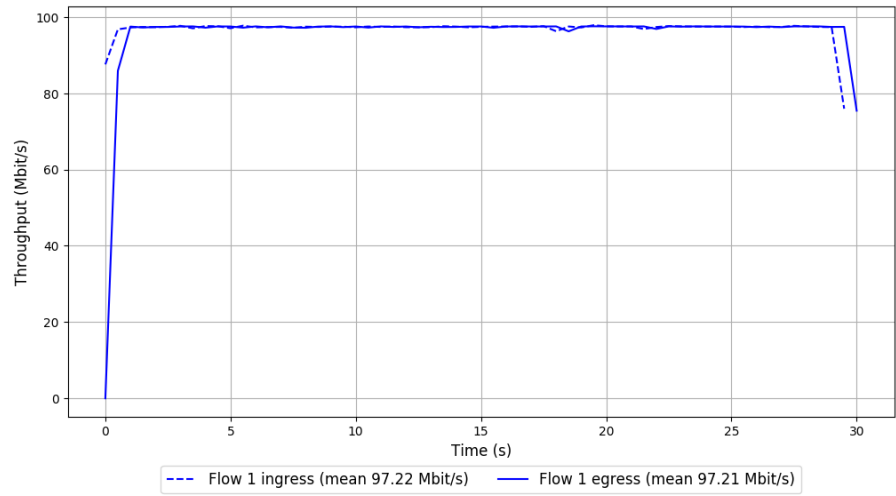
-- Flow 1:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 5.017 ms

Loss rate: 0.02%

## Run 5: Report of Indigo — Data Link

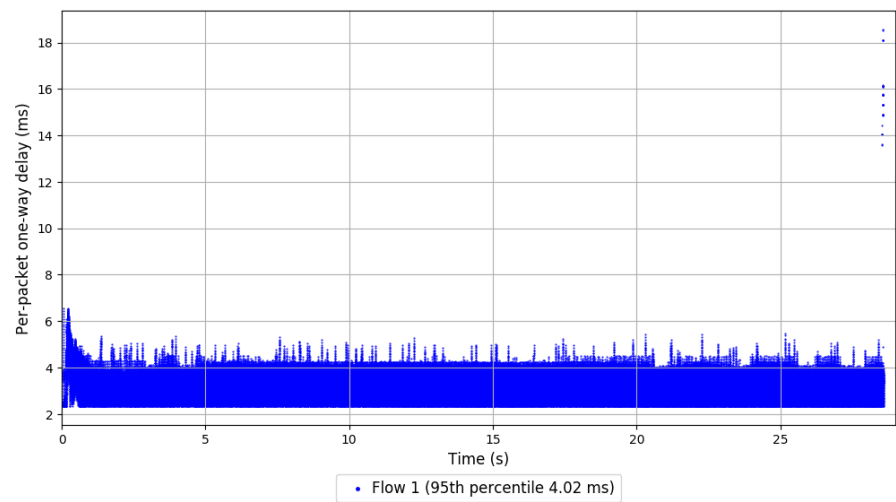
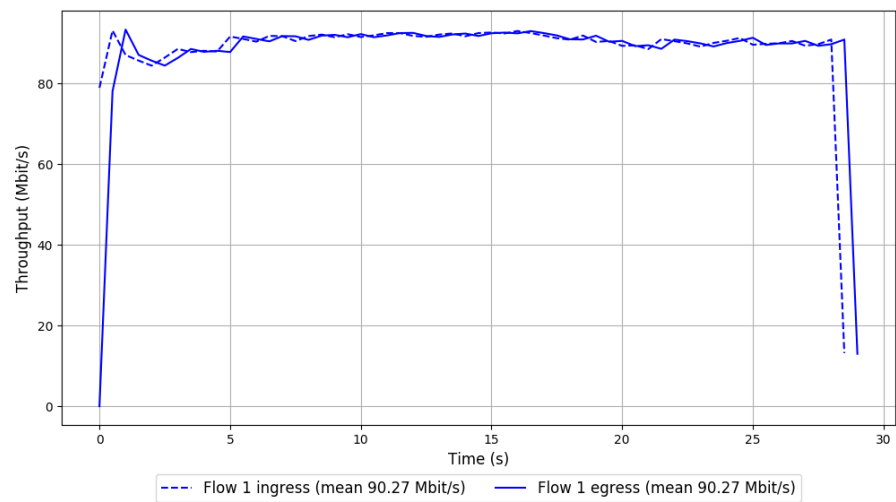


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-01-25 10:47:18  
End at: 2019-01-25 10:47:48  
Local clock offset: 1.823 ms  
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2019-01-25 12:46:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.27 Mbit/s  
95th percentile per-packet one-way delay: 4.024 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 90.27 Mbit/s  
95th percentile per-packet one-way delay: 4.024 ms  
Loss rate: 0.02%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-01-25 11:10:59

End at: 2019-01-25 11:11:29

Local clock offset: -1.812 ms

Remote clock offset: 0.258 ms

# Below is generated by plot.py at 2019-01-25 12:47:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.93 Mbit/s

95th percentile per-packet one-way delay: 4.469 ms

Loss rate: 0.02%

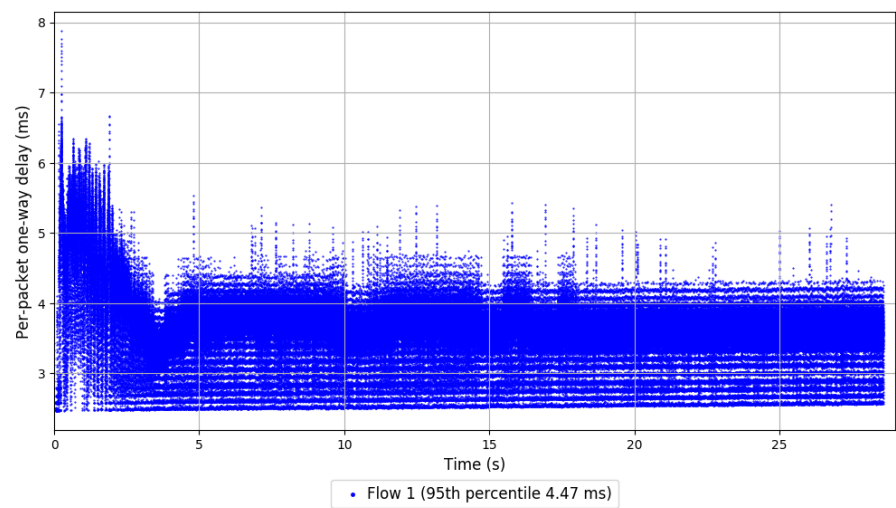
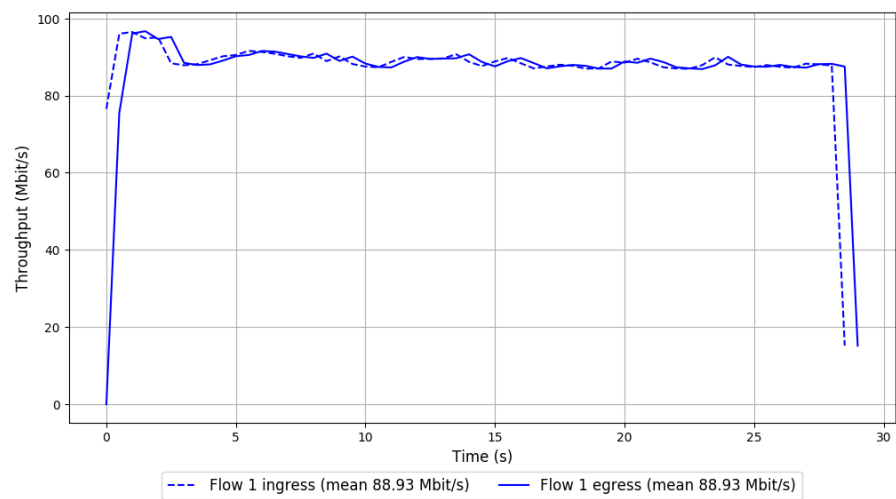
-- Flow 1:

Average throughput: 88.93 Mbit/s

95th percentile per-packet one-way delay: 4.469 ms

Loss rate: 0.02%

Run 2: Report of Indigo-MusesC3 — Data Link





Run 3: Statistics of Indigo-MusesC3

Start at: 2019-01-25 11:34:40

End at: 2019-01-25 11:35:10

Local clock offset: -3.223 ms

Remote clock offset: 0.682 ms

# Below is generated by plot.py at 2019-01-25 12:47:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.68 Mbit/s

95th percentile per-packet one-way delay: 3.733 ms

Loss rate: 0.01%

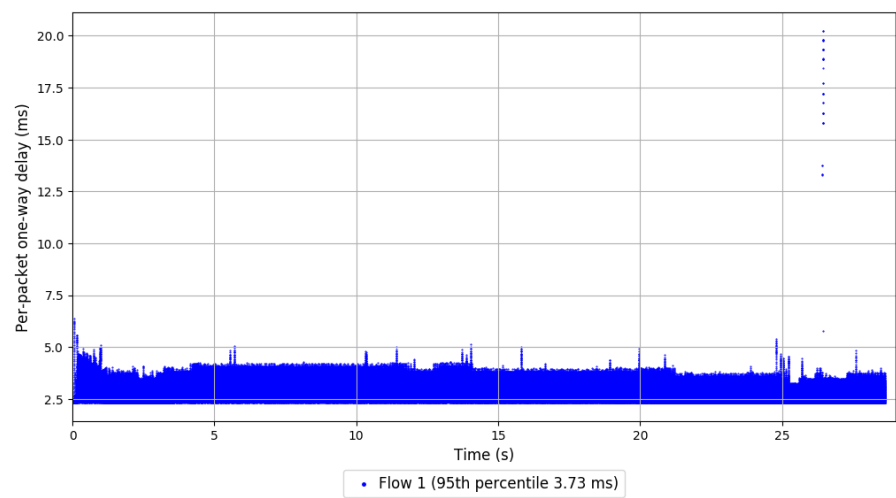
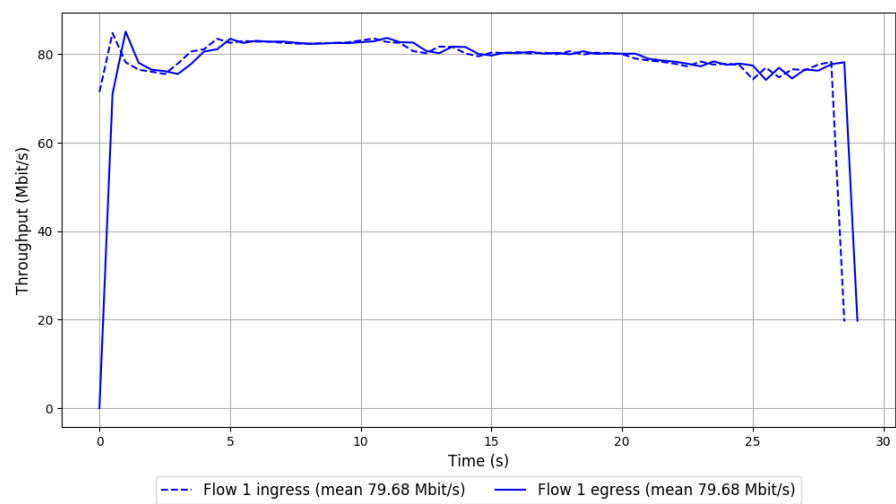
-- Flow 1:

Average throughput: 79.68 Mbit/s

95th percentile per-packet one-way delay: 3.733 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-01-25 11:58:23

End at: 2019-01-25 11:58:53

Local clock offset: -3.272 ms

Remote clock offset: 0.937 ms

# Below is generated by plot.py at 2019-01-25 12:47:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.95 Mbit/s

95th percentile per-packet one-way delay: 4.239 ms

Loss rate: 0.02%

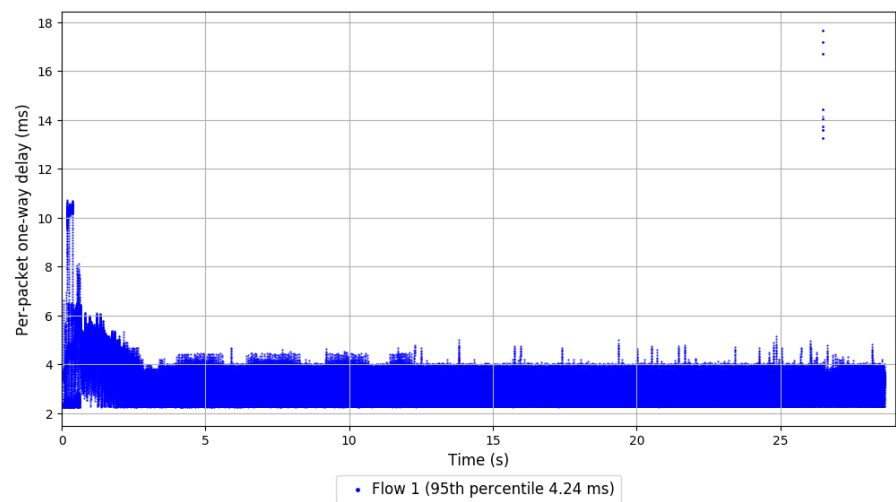
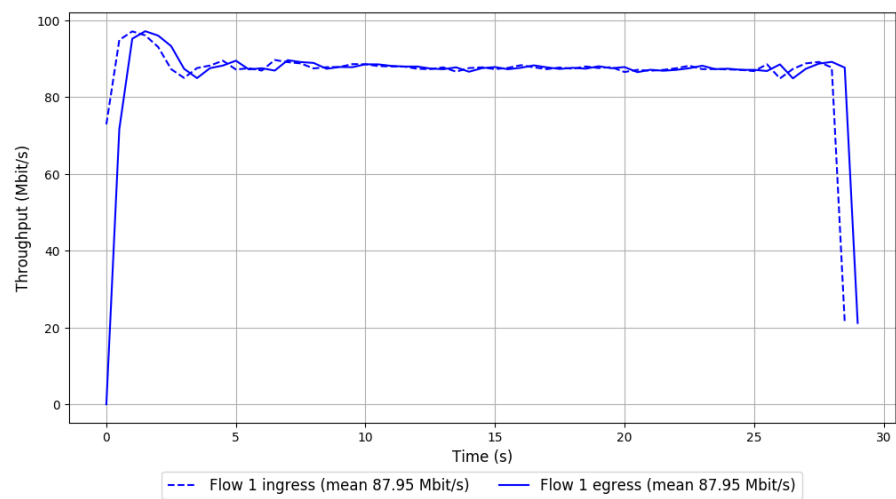
-- Flow 1:

Average throughput: 87.95 Mbit/s

95th percentile per-packet one-way delay: 4.239 ms

Loss rate: 0.02%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-01-25 12:22:04

End at: 2019-01-25 12:22:34

Local clock offset: -2.862 ms

Remote clock offset: 0.992 ms

# Below is generated by plot.py at 2019-01-25 12:47:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.46 Mbit/s

95th percentile per-packet one-way delay: 3.595 ms

Loss rate: 0.02%

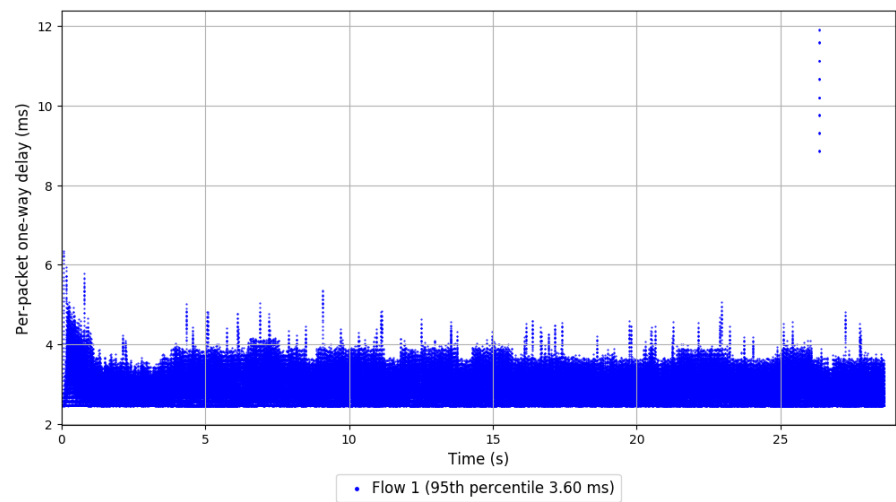
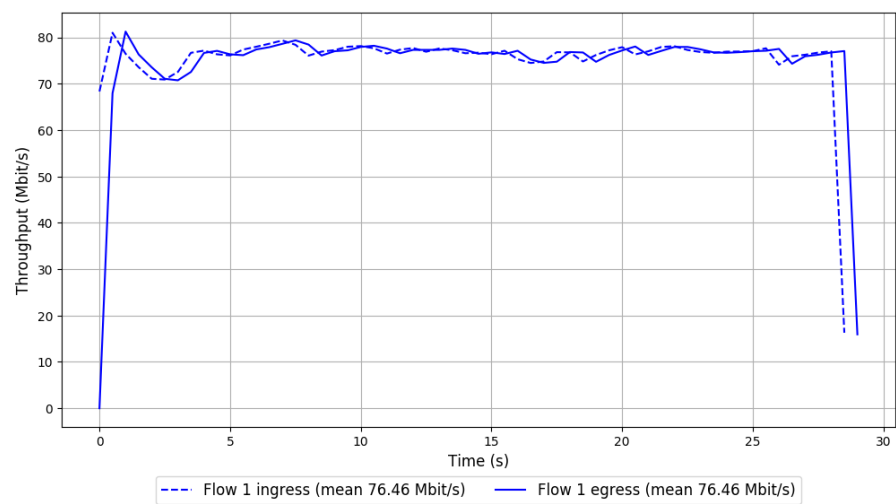
-- Flow 1:

Average throughput: 76.46 Mbit/s

95th percentile per-packet one-way delay: 3.595 ms

Loss rate: 0.02%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-01-25 10:59:45

End at: 2019-01-25 11:00:15

Local clock offset: 1.384 ms

Remote clock offset: 0.176 ms

# Below is generated by plot.py at 2019-01-25 12:47:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 52.82 Mbit/s

95th percentile per-packet one-way delay: 3.895 ms

Loss rate: 0.01%

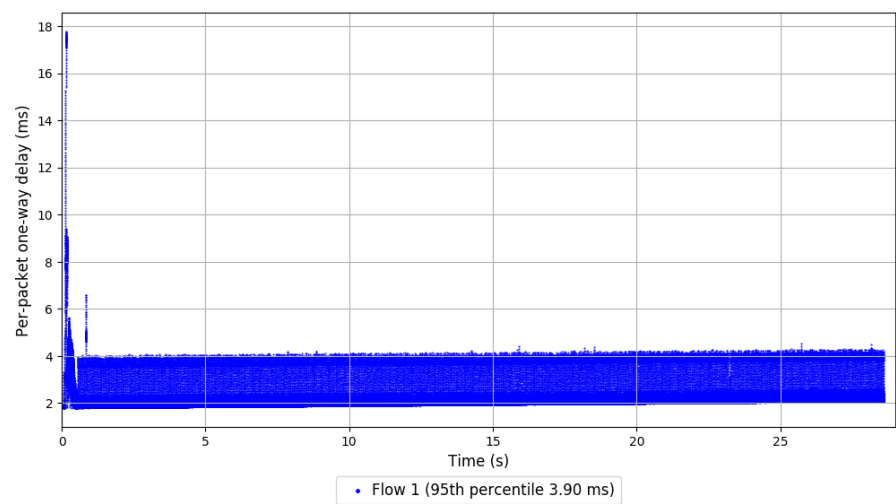
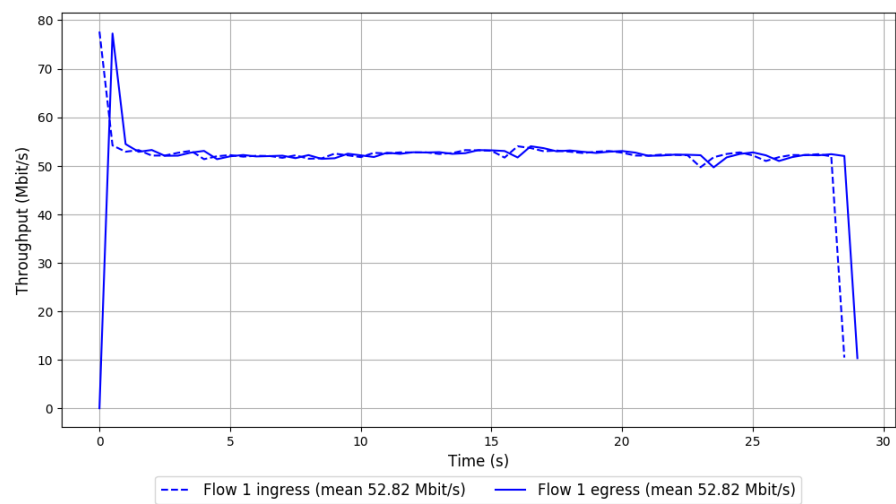
-- Flow 1:

Average throughput: 52.82 Mbit/s

95th percentile per-packet one-way delay: 3.895 ms

Loss rate: 0.01%

Run 1: Report of Indigo-MusesC5 — Data Link





Run 2: Statistics of Indigo-MusesC5

Start at: 2019-01-25 11:23:27

End at: 2019-01-25 11:23:57

Local clock offset: -3.932 ms

Remote clock offset: 0.46 ms

# Below is generated by plot.py at 2019-01-25 12:47:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.83 Mbit/s

95th percentile per-packet one-way delay: 3.454 ms

Loss rate: 0.01%

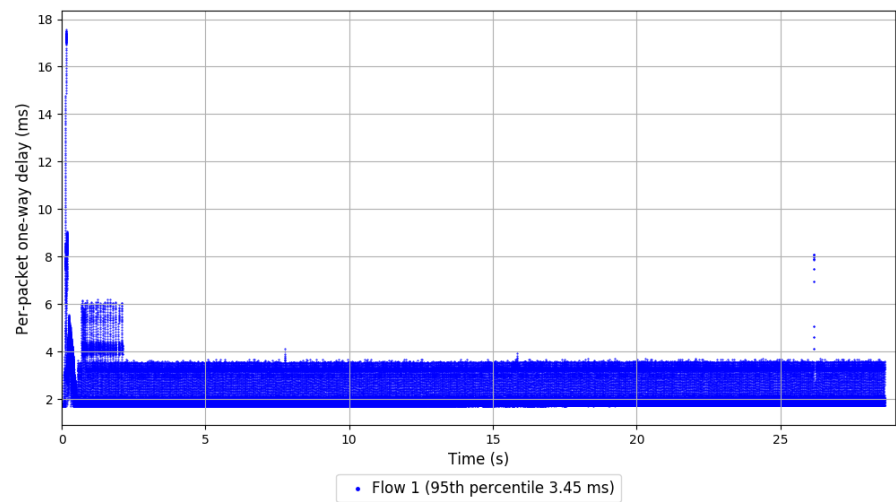
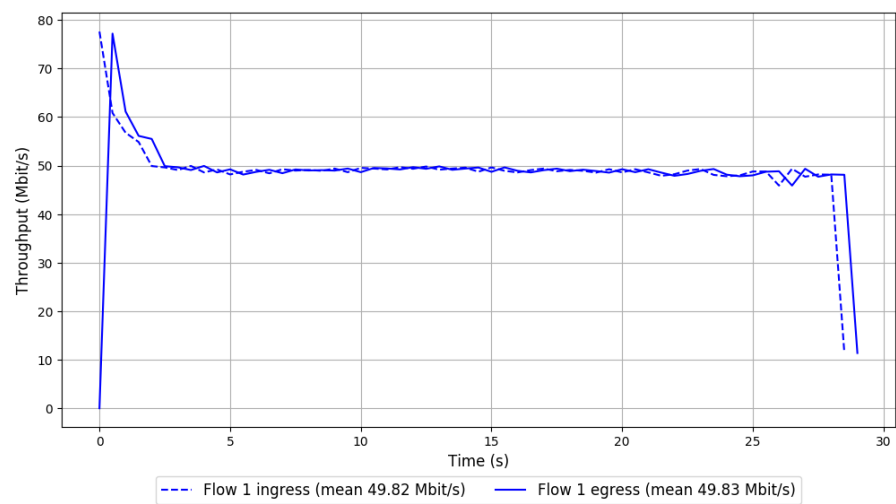
-- Flow 1:

Average throughput: 49.83 Mbit/s

95th percentile per-packet one-way delay: 3.454 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-01-25 11:47:10

End at: 2019-01-25 11:47:40

Local clock offset: -3.887 ms

Remote clock offset: 0.842 ms

# Below is generated by plot.py at 2019-01-25 12:47:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 22.94 Mbit/s

95th percentile per-packet one-way delay: 3.254 ms

Loss rate: 0.01%

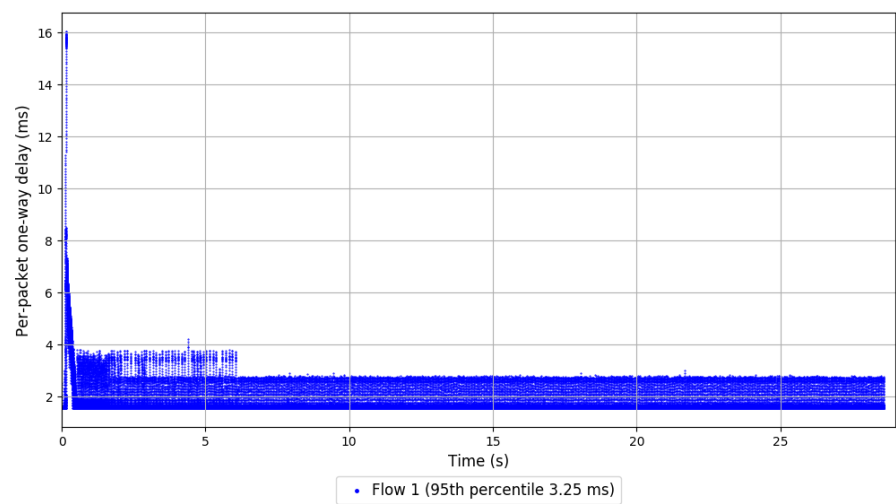
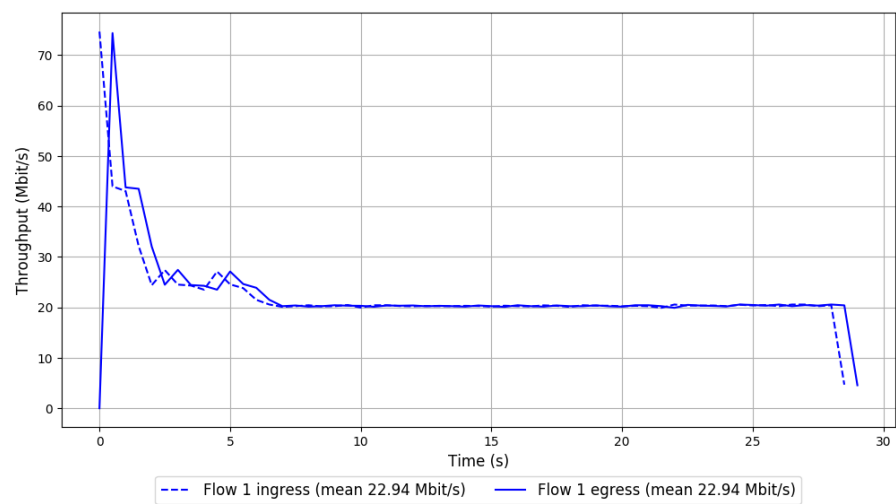
-- Flow 1:

Average throughput: 22.94 Mbit/s

95th percentile per-packet one-way delay: 3.254 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-01-25 12:10:50

End at: 2019-01-25 12:11:20

Local clock offset: -3.694 ms

Remote clock offset: 0.994 ms

# Below is generated by plot.py at 2019-01-25 12:47:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 52.00 Mbit/s

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

Loss rate: 0.01%

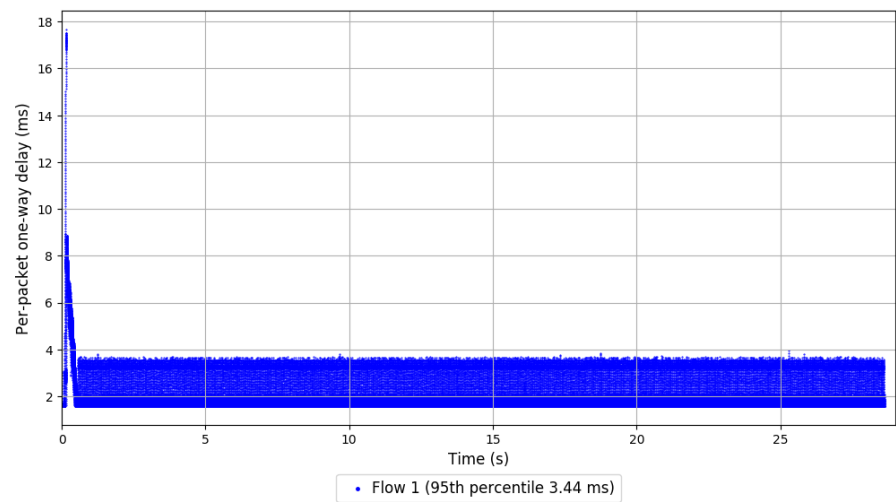
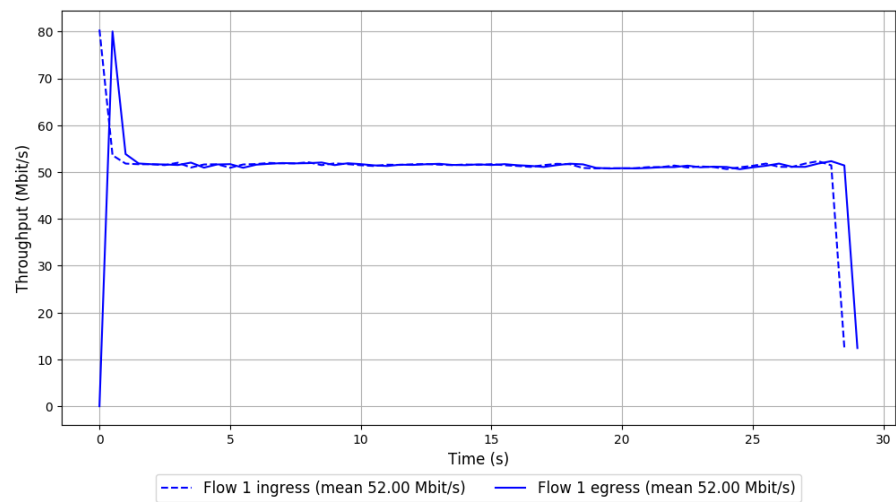
-- Flow 1:

Average throughput: 52.00 Mbit/s

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

Loss rate: 0.01%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-01-25 12:34:34

End at: 2019-01-25 12:35:04

Local clock offset: -4.074 ms

Remote clock offset: 0.976 ms

# Below is generated by plot.py at 2019-01-25 12:47:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 57.40 Mbit/s

95th percentile per-packet one-way delay: 3.706 ms

Loss rate: 0.01%

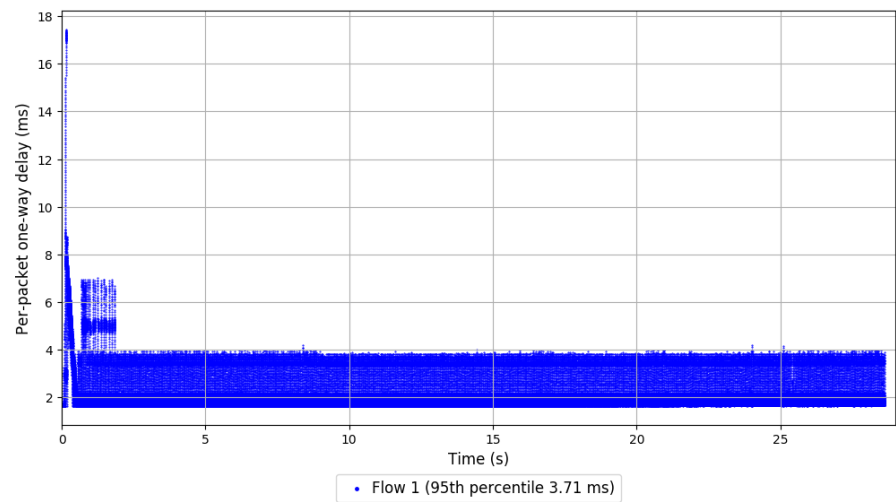
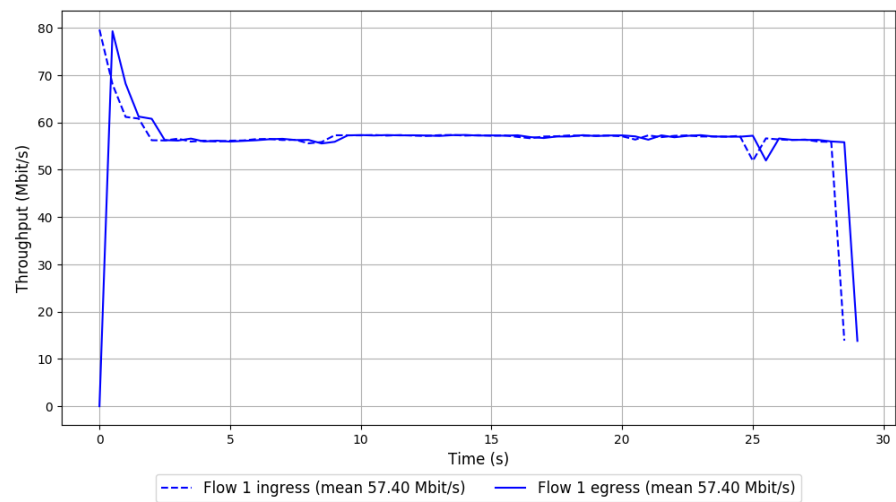
-- Flow 1:

Average throughput: 57.40 Mbit/s

95th percentile per-packet one-way delay: 3.706 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesC5 — Data Link



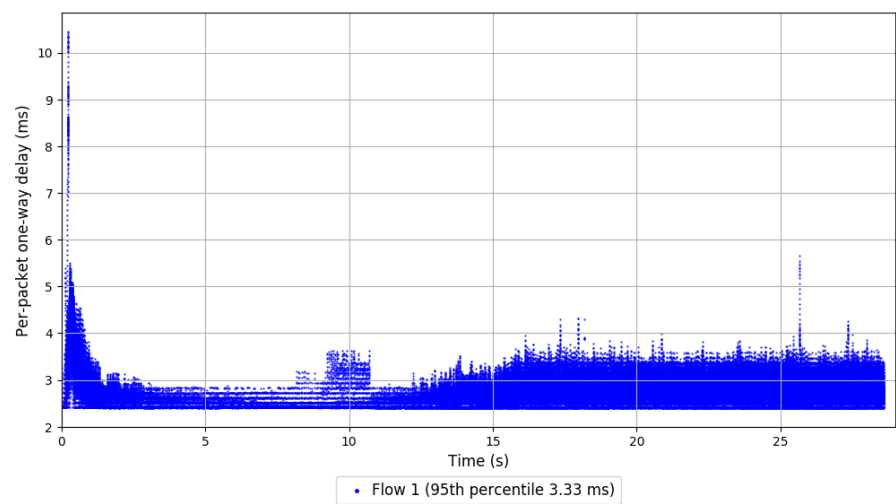
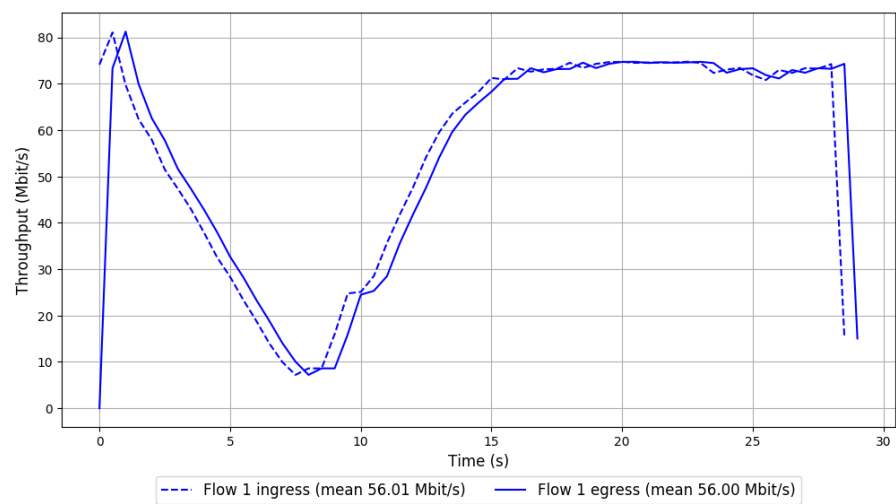


```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-25 10:41:39
End at: 2019-01-25 10:42:09
Local clock offset: 1.701 ms
Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2019-01-25 12:47:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.00 Mbit/s
95th percentile per-packet one-way delay: 3.331 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 56.00 Mbit/s
95th percentile per-packet one-way delay: 3.331 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-01-25 11:05:20

End at: 2019-01-25 11:05:50

Local clock offset: -0.322 ms

Remote clock offset: 0.198 ms

# Below is generated by plot.py at 2019-01-25 12:48:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.71 Mbit/s

95th percentile per-packet one-way delay: 27.688 ms

Loss rate: 0.57%

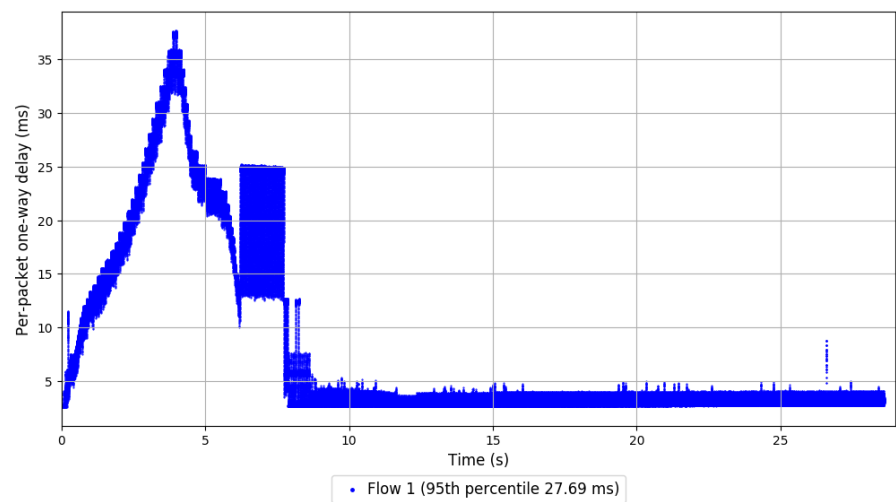
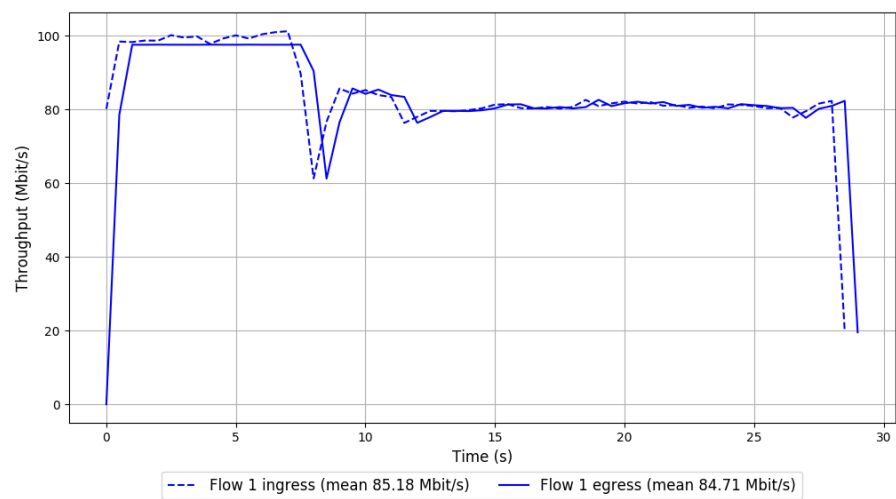
-- Flow 1:

Average throughput: 84.71 Mbit/s

95th percentile per-packet one-way delay: 27.688 ms

Loss rate: 0.57%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-25 11:29:01

End at: 2019-01-25 11:29:31

Local clock offset: -3.492 ms

Remote clock offset: 0.573 ms

# Below is generated by plot.py at 2019-01-25 12:48:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 61.12 Mbit/s

95th percentile per-packet one-way delay: 29.261 ms

Loss rate: 1.19%

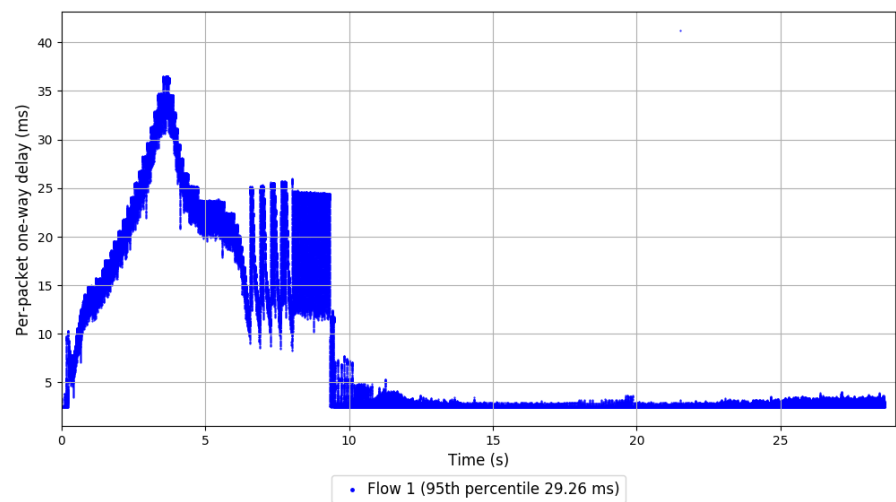
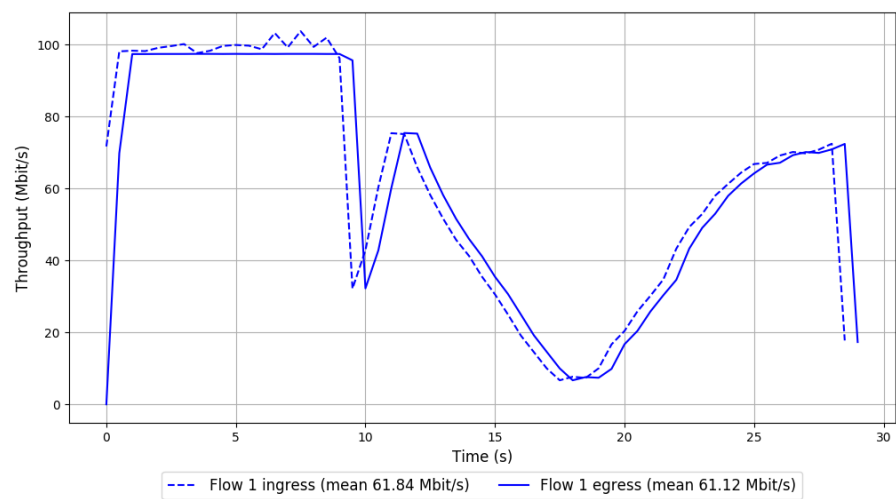
-- Flow 1:

Average throughput: 61.12 Mbit/s

95th percentile per-packet one-way delay: 29.261 ms

Loss rate: 1.19%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-01-25 11:52:45

End at: 2019-01-25 11:53:15

Local clock offset: -3.124 ms

Remote clock offset: 0.772 ms

# Below is generated by plot.py at 2019-01-25 12:48:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 55.20 Mbit/s

95th percentile per-packet one-way delay: 3.376 ms

Loss rate: 0.02%

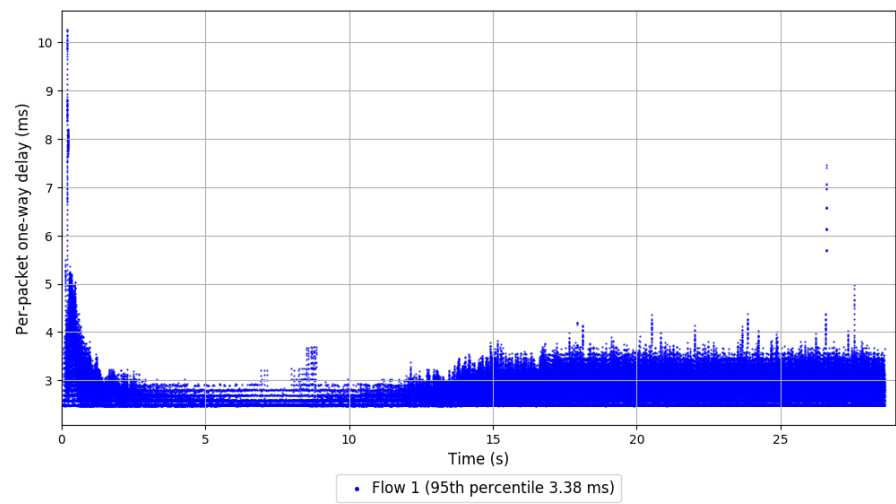
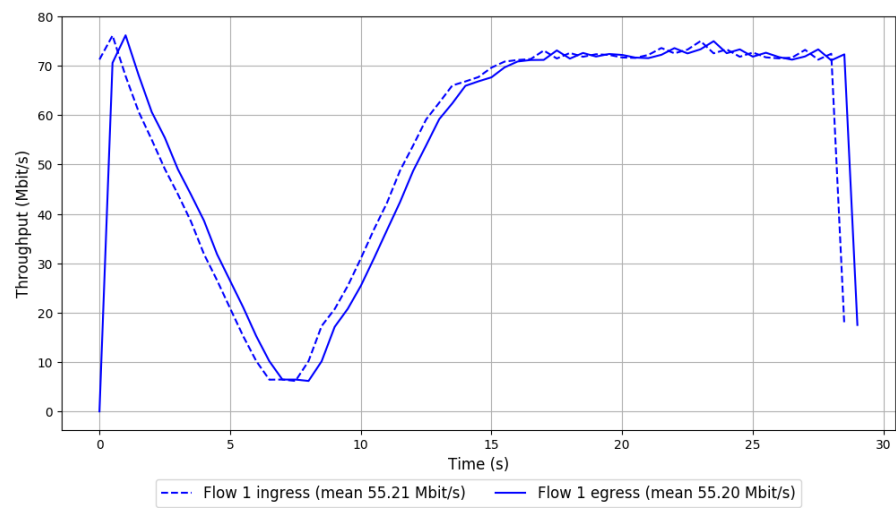
-- Flow 1:

Average throughput: 55.20 Mbit/s

95th percentile per-packet one-way delay: 3.376 ms

Loss rate: 0.02%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-01-25 12:16:25

End at: 2019-01-25 12:16:56

Local clock offset: -2.853 ms

Remote clock offset: 1.032 ms

# Below is generated by plot.py at 2019-01-25 12:48:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 56.75 Mbit/s

95th percentile per-packet one-way delay: 3.369 ms

Loss rate: 0.02%

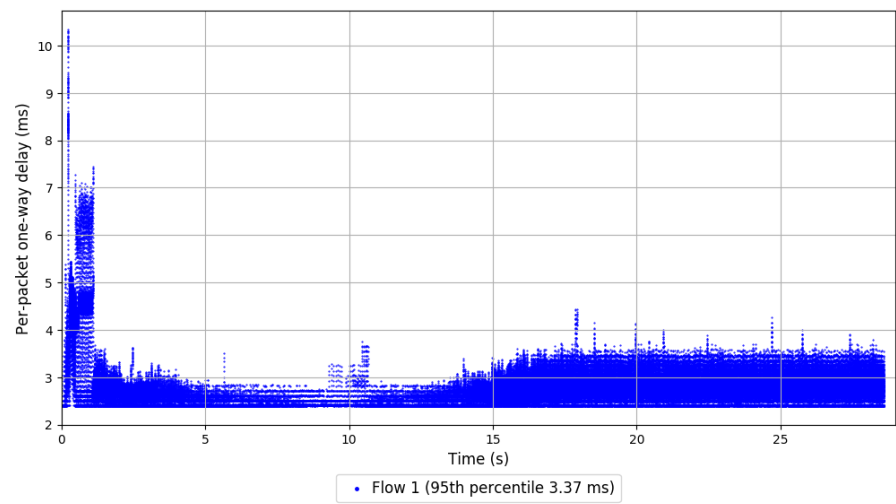
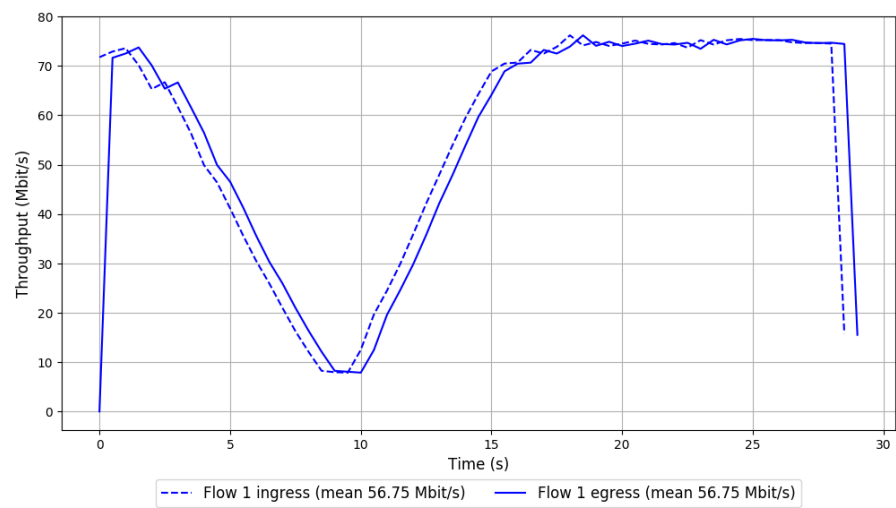
-- Flow 1:

Average throughput: 56.75 Mbit/s

95th percentile per-packet one-way delay: 3.369 ms

Loss rate: 0.02%

Run 5: Report of Indigo-MusesD — Data Link

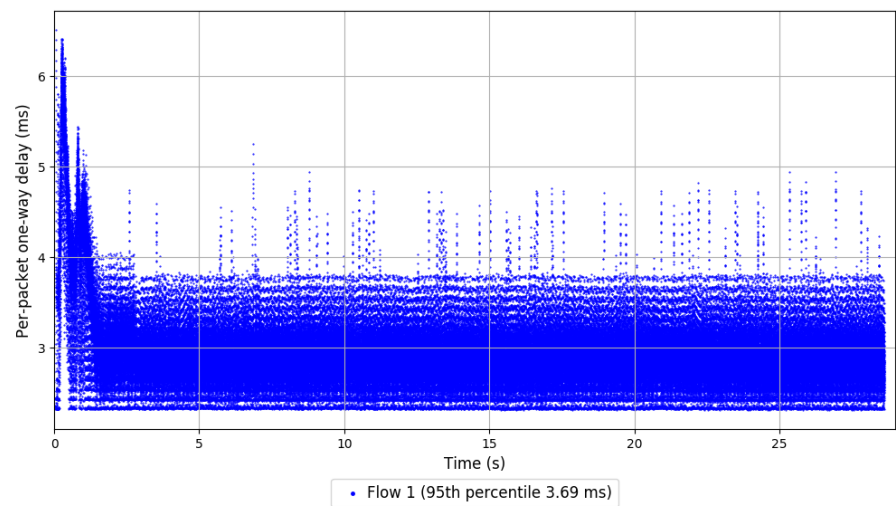
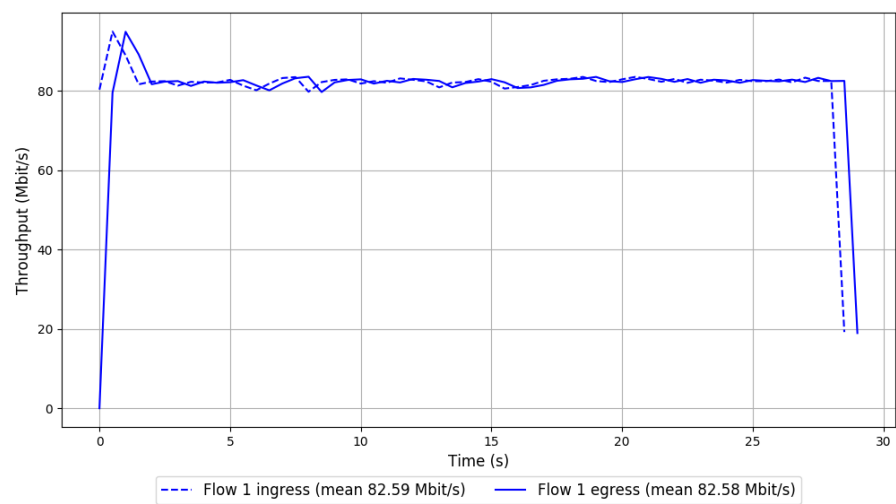


```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-01-25 10:42:46
End at: 2019-01-25 10:43:16
Local clock offset: 1.712 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2019-01-25 12:48:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.58 Mbit/s
95th percentile per-packet one-way delay: 3.685 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 82.58 Mbit/s
95th percentile per-packet one-way delay: 3.685 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-25 11:06:28

End at: 2019-01-25 11:06:58

Local clock offset: -0.746 ms

Remote clock offset: 0.11 ms

# Below is generated by plot.py at 2019-01-25 12:48:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.44 Mbit/s

95th percentile per-packet one-way delay: 3.712 ms

Loss rate: 0.01%

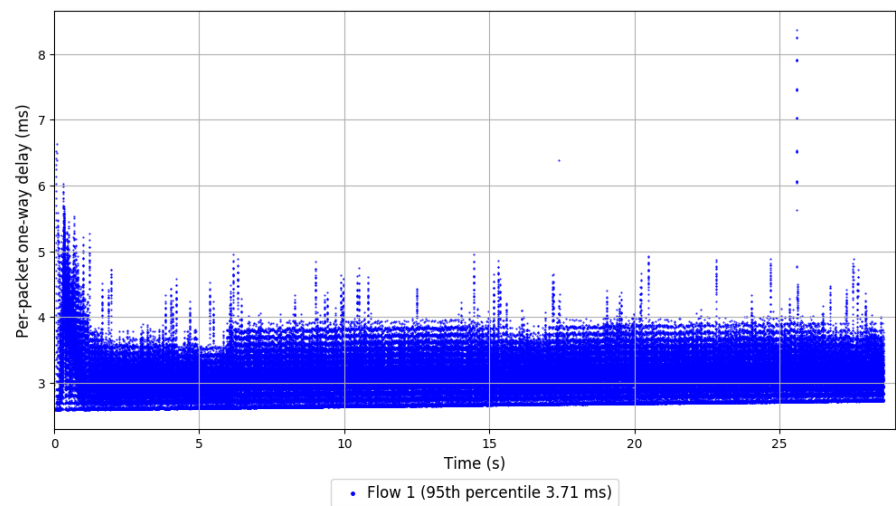
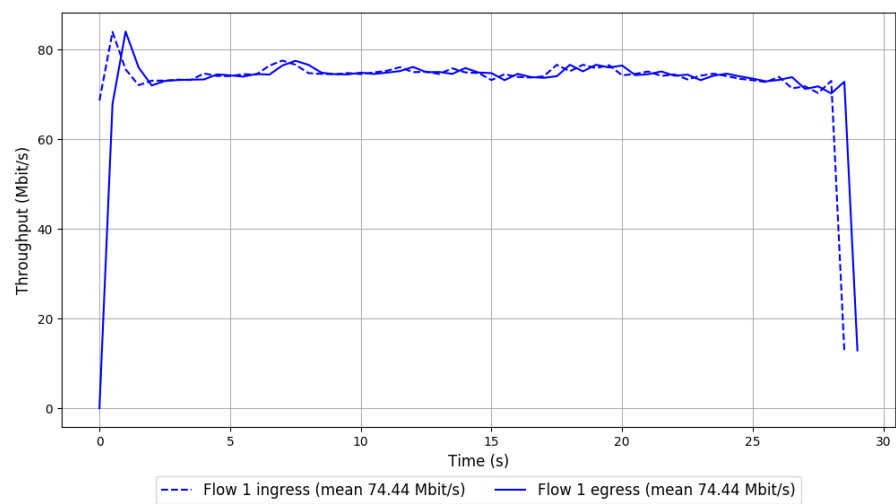
-- Flow 1:

Average throughput: 74.44 Mbit/s

95th percentile per-packet one-way delay: 3.712 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesT — Data Link

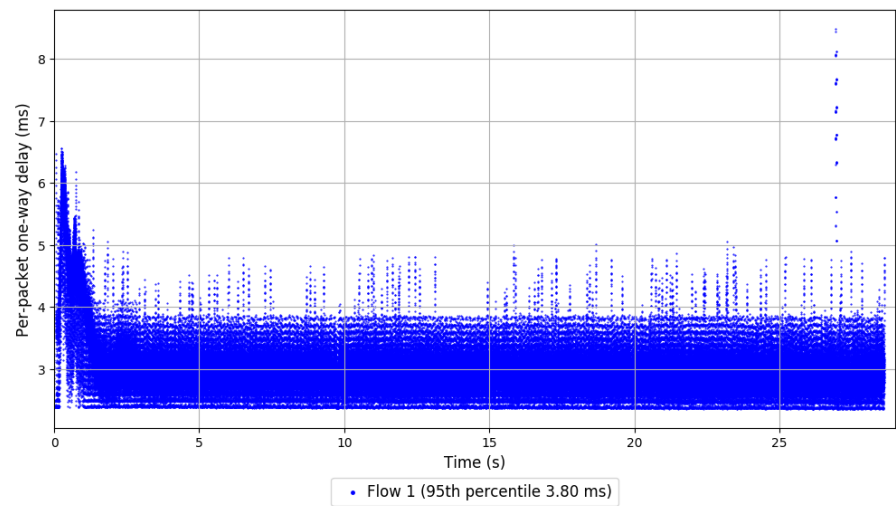
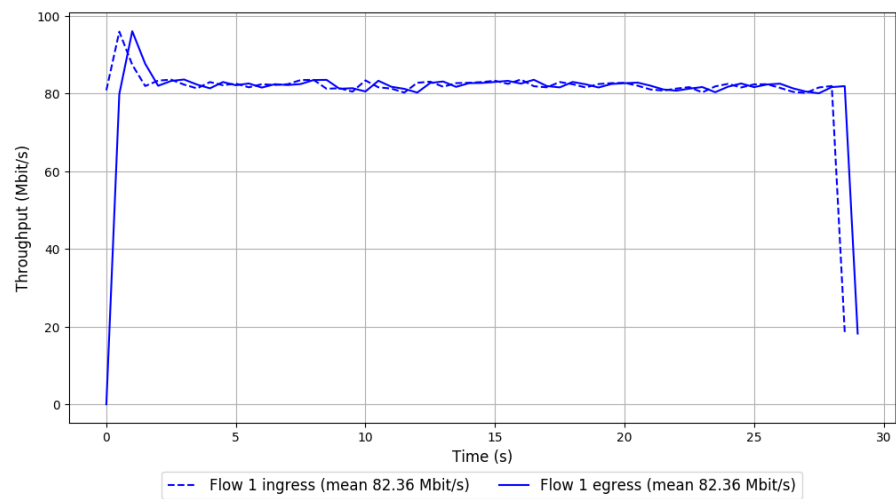


Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-25 11:30:08  
End at: 2019-01-25 11:30:38  
Local clock offset: -3.469 ms  
Remote clock offset: 0.553 ms

# Below is generated by plot.py at 2019-01-25 12:48:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 82.36 Mbit/s  
95th percentile per-packet one-way delay: 3.798 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 82.36 Mbit/s  
95th percentile per-packet one-way delay: 3.798 ms  
Loss rate: 0.02%

Run 3: Report of Indigo-MusesT — Data Link





Run 4: Statistics of Indigo-MusesT

Start at: 2019-01-25 11:53:51

End at: 2019-01-25 11:54:21

Local clock offset: -3.95 ms

Remote clock offset: 0.846 ms

# Below is generated by plot.py at 2019-01-25 12:48:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.59 Mbit/s

95th percentile per-packet one-way delay: 2.942 ms

Loss rate: 0.01%

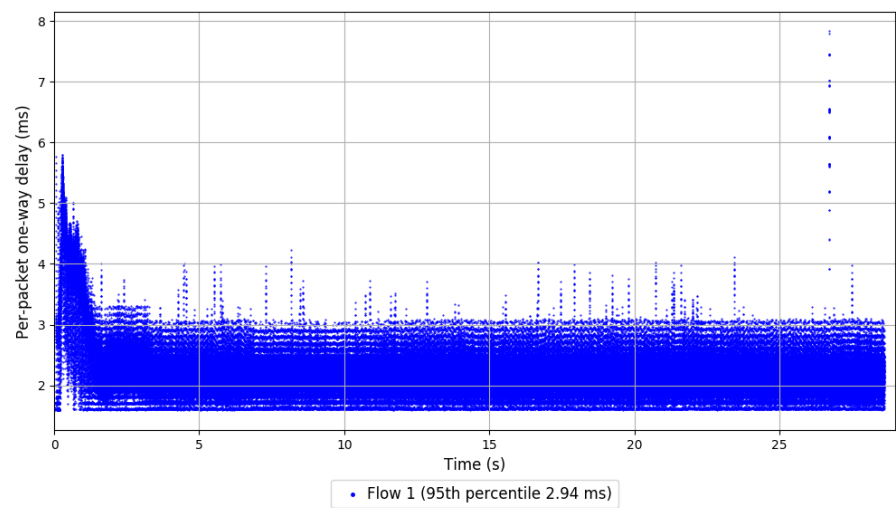
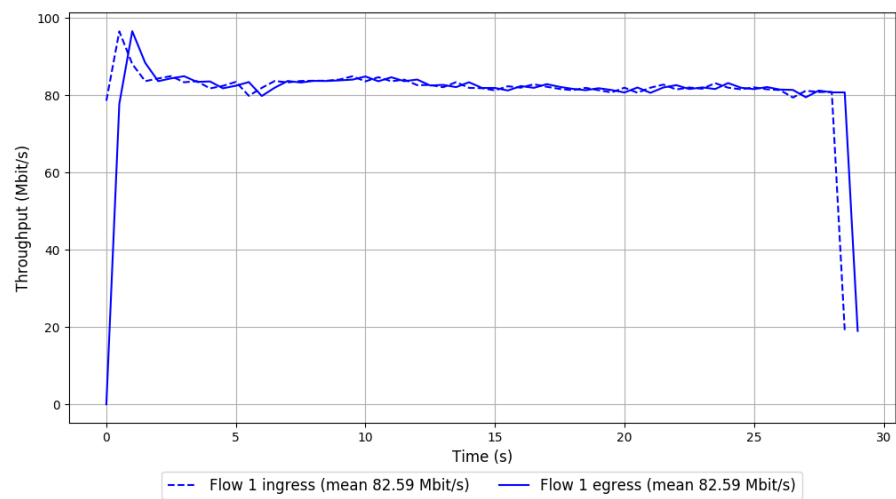
-- Flow 1:

Average throughput: 82.59 Mbit/s

95th percentile per-packet one-way delay: 2.942 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-01-25 12:17:32

End at: 2019-01-25 12:18:02

Local clock offset: -3.603 ms

Remote clock offset: 1.089 ms

# Below is generated by plot.py at 2019-01-25 12:48:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.07 Mbit/s

95th percentile per-packet one-way delay: 2.906 ms

Loss rate: 0.02%

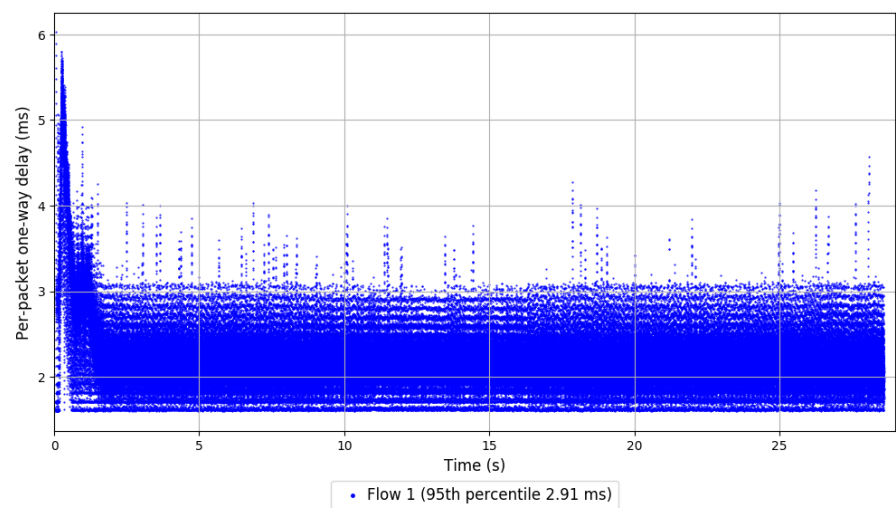
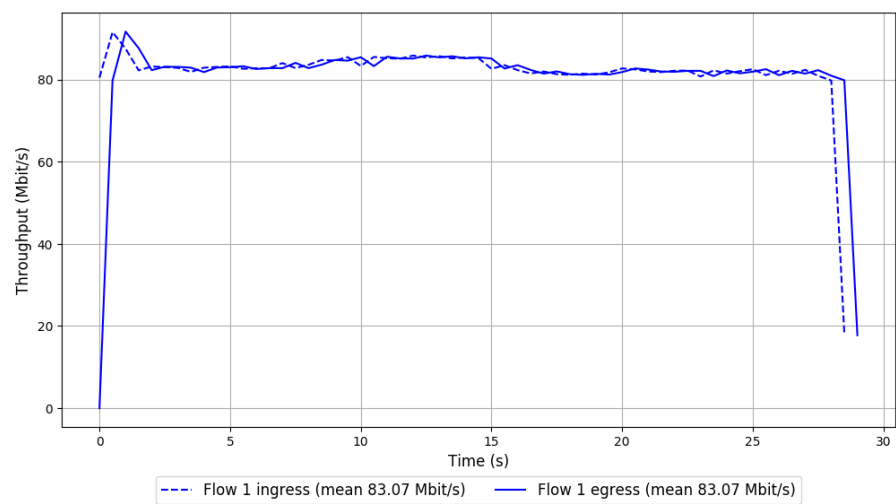
-- Flow 1:

Average throughput: 83.07 Mbit/s

95th percentile per-packet one-way delay: 2.906 ms

Loss rate: 0.02%

Run 5: Report of Indigo-MusesT — Data Link

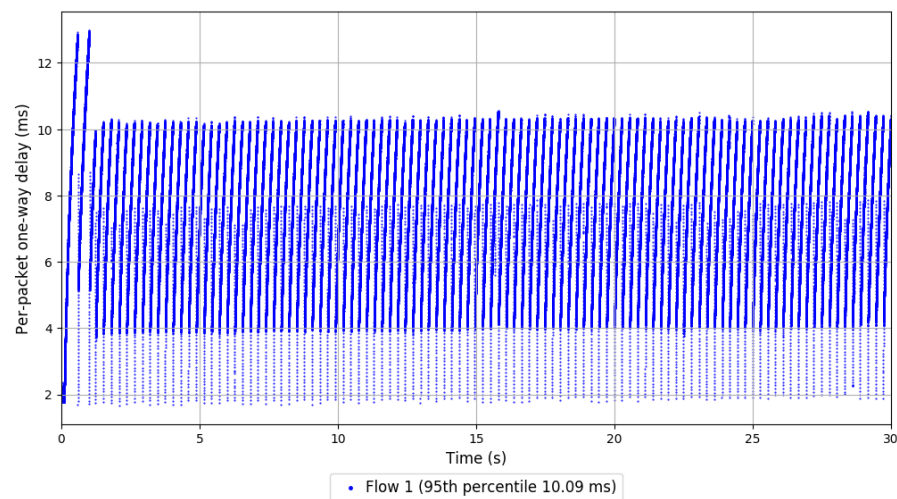
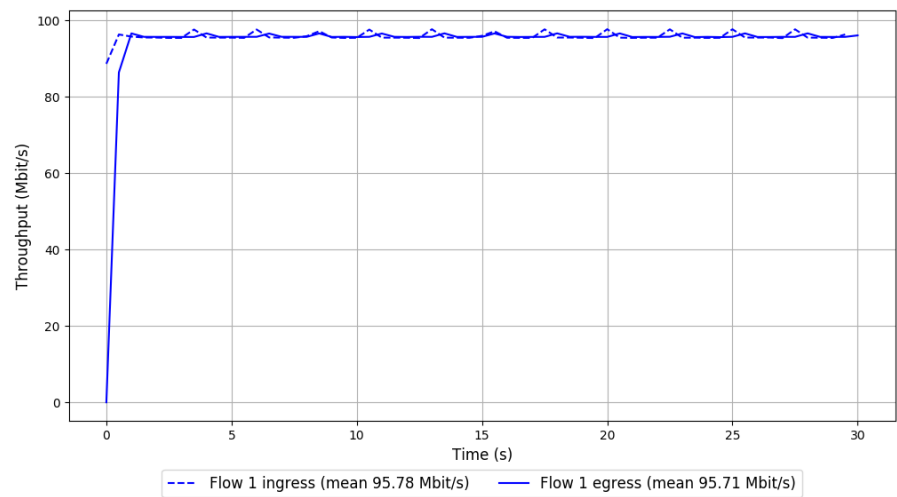


```
Run 1: Statistics of LEDBAT

Start at: 2019-01-25 11:01:59
End at: 2019-01-25 11:02:29
Local clock offset: 0.219 ms
Remote clock offset: 0.191 ms

# Below is generated by plot.py at 2019-01-25 12:49:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 10.090 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 10.090 ms
Loss rate: 0.07%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-01-25 11:25:40

End at: 2019-01-25 11:26:10

Local clock offset: -3.299 ms

Remote clock offset: 0.498 ms

# Below is generated by plot.py at 2019-01-25 12:49:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.98 Mbit/s

95th percentile per-packet one-way delay: 10.915 ms

Loss rate: 0.08%

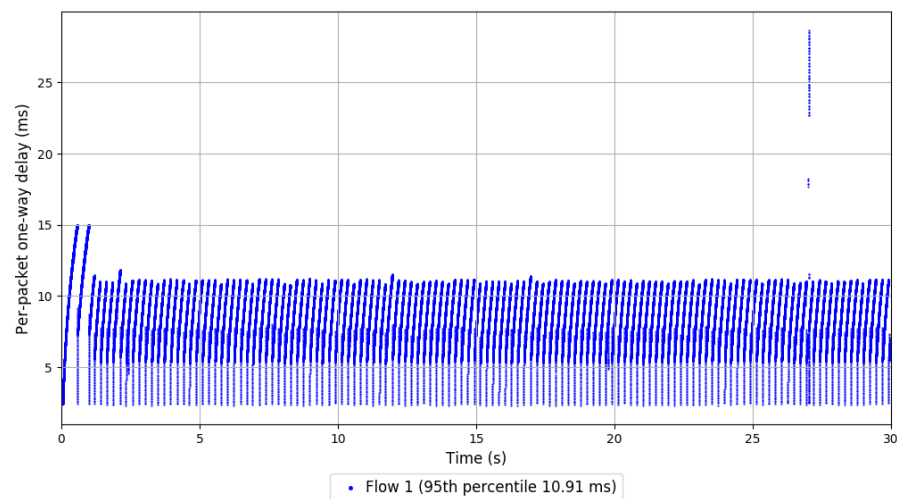
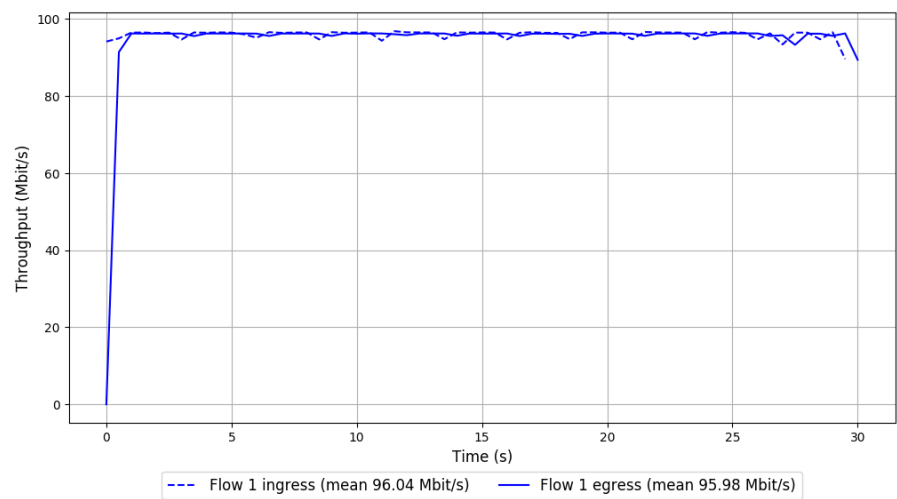
-- Flow 1:

Average throughput: 95.98 Mbit/s

95th percentile per-packet one-way delay: 10.915 ms

Loss rate: 0.08%

Run 2: Report of LEDBAT — Data Link





Run 3: Statistics of LEDBAT

Start at: 2019-01-25 11:49:23

End at: 2019-01-25 11:49:53

Local clock offset: -3.089 ms

Remote clock offset: 0.87 ms

# Below is generated by plot.py at 2019-01-25 12:49:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.71 Mbit/s

95th percentile per-packet one-way delay: 10.564 ms

Loss rate: 0.08%

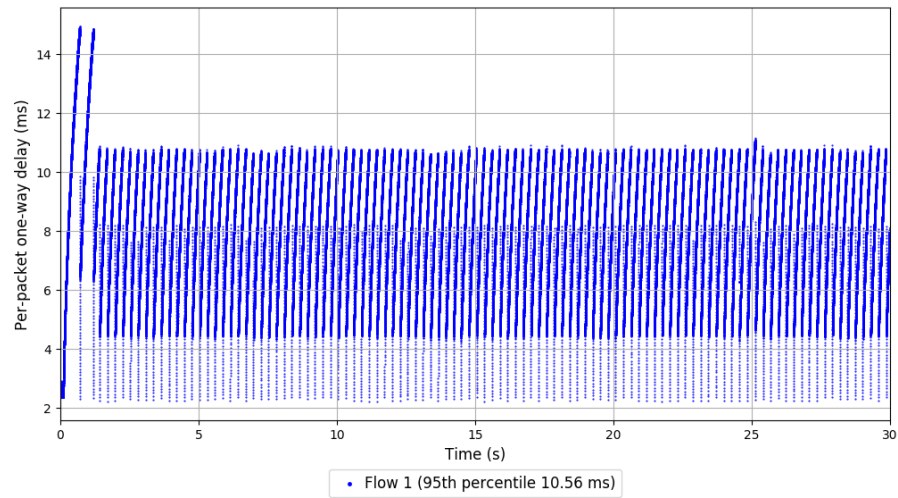
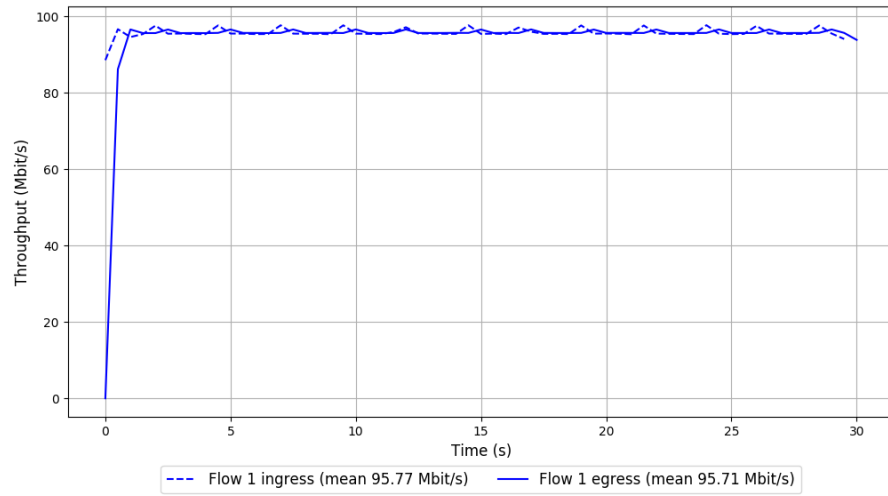
-- Flow 1:

Average throughput: 95.71 Mbit/s

95th percentile per-packet one-way delay: 10.564 ms

Loss rate: 0.08%

### Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-01-25 12:13:03

End at: 2019-01-25 12:13:33

Local clock offset: -3.619 ms

Remote clock offset: 1.072 ms

# Below is generated by plot.py at 2019-01-25 12:49:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.04 Mbit/s

95th percentile per-packet one-way delay: 10.015 ms

Loss rate: 0.08%

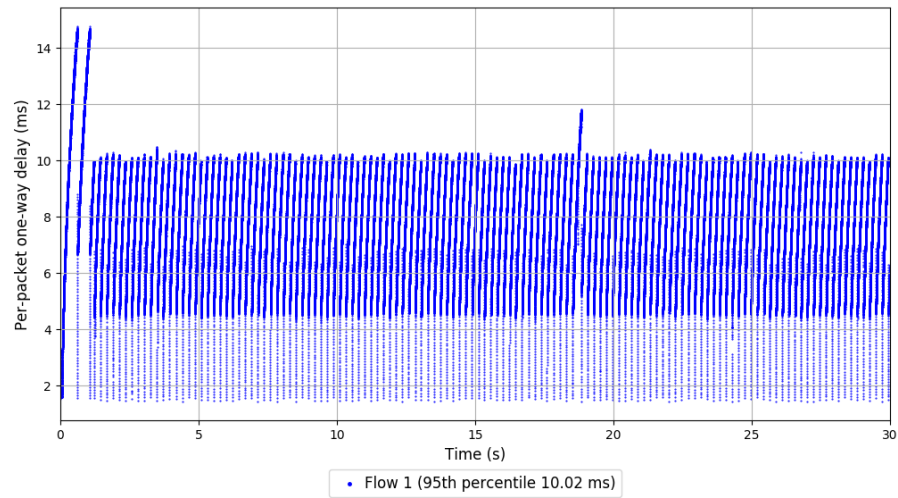
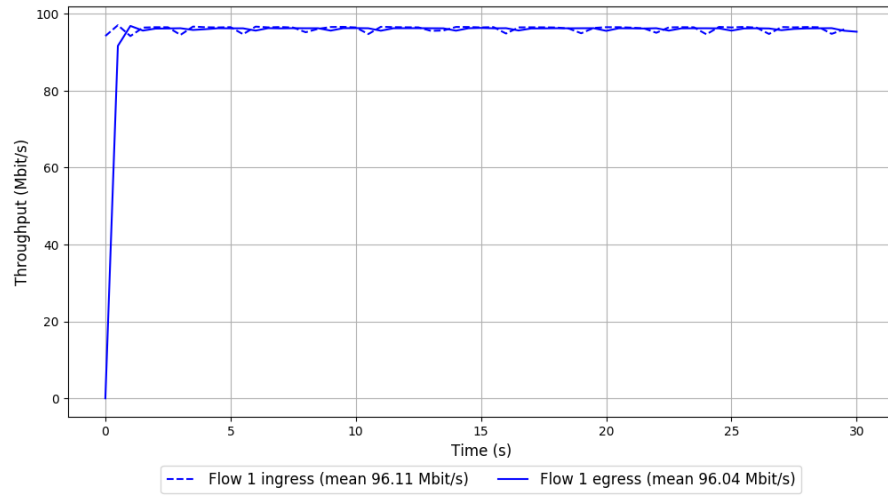
-- Flow 1:

Average throughput: 96.04 Mbit/s

95th percentile per-packet one-way delay: 10.015 ms

Loss rate: 0.08%

#### Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-01-25 12:36:48

End at: 2019-01-25 12:37:18

Local clock offset: -3.514 ms

Remote clock offset: 0.938 ms

# Below is generated by plot.py at 2019-01-25 12:49:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.03 Mbit/s

95th percentile per-packet one-way delay: 10.772 ms

Loss rate: 0.09%

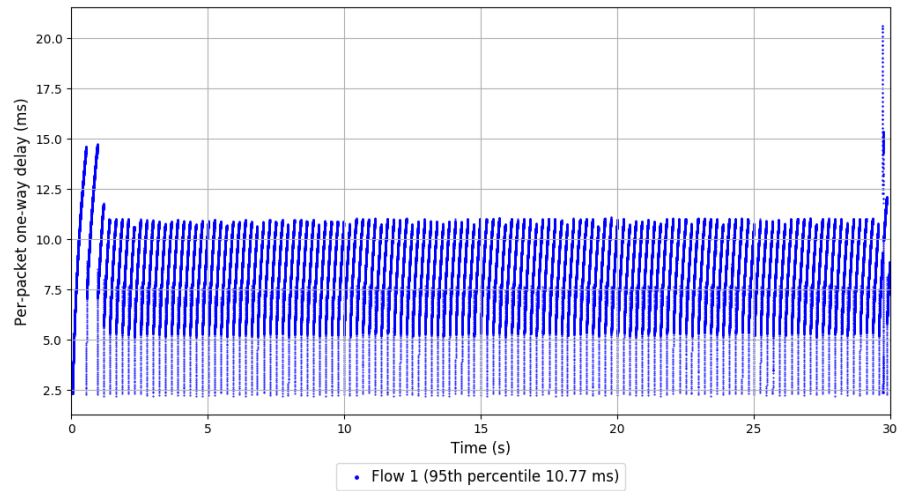
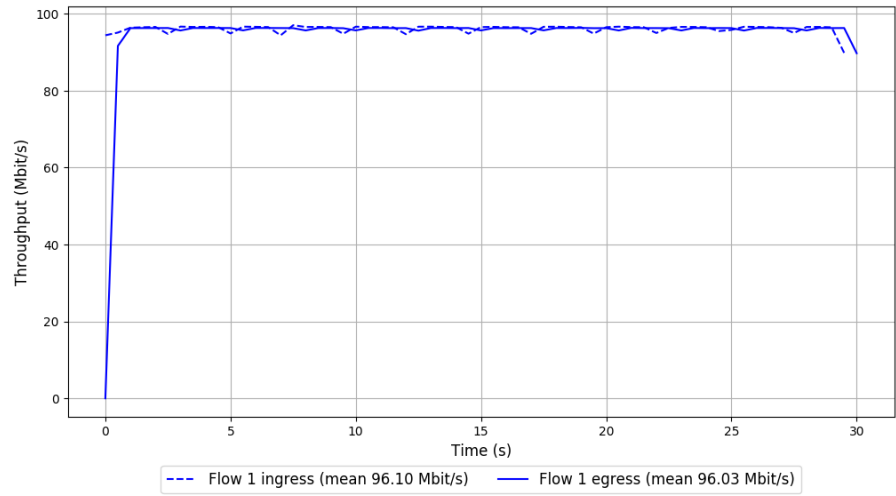
-- Flow 1:

Average throughput: 96.03 Mbit/s

95th percentile per-packet one-way delay: 10.772 ms

Loss rate: 0.09%

### Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-01-25 10:51:53

End at: 2019-01-25 10:52:23

Local clock offset: 1.153 ms

Remote clock offset: 0.029 ms

# Below is generated by plot.py at 2019-01-25 12:49:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.42 Mbit/s

95th percentile per-packet one-way delay: 2.376 ms

Loss rate: 0.02%

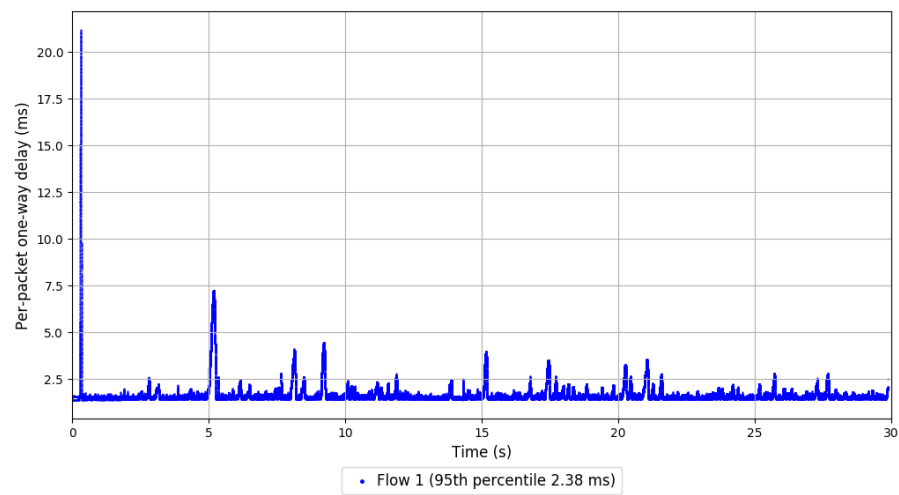
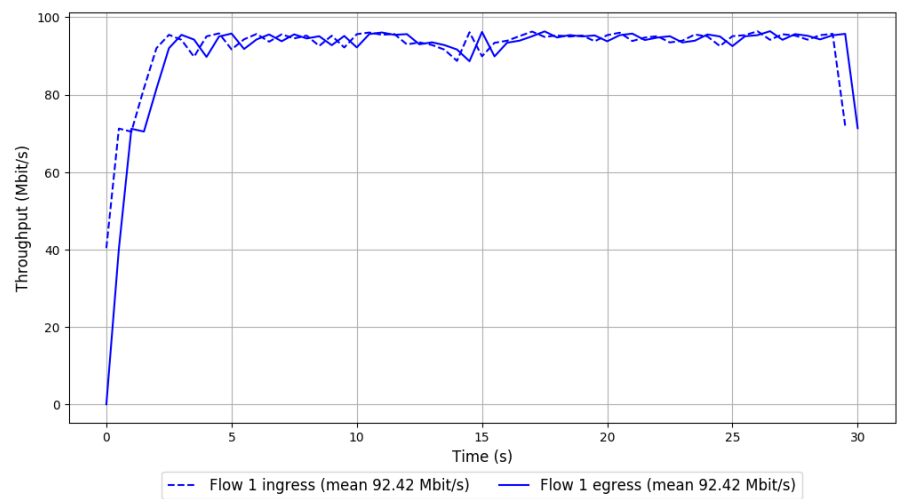
-- Flow 1:

Average throughput: 92.42 Mbit/s

95th percentile per-packet one-way delay: 2.376 ms

Loss rate: 0.02%

Run 1: Report of PCC-Allegro — Data Link





Run 2: Statistics of PCC-Allegro

Start at: 2019-01-25 11:15:34

End at: 2019-01-25 11:16:04

Local clock offset: -3.309 ms

Remote clock offset: 0.416 ms

# Below is generated by plot.py at 2019-01-25 12:49:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.25 Mbit/s

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

Loss rate: 0.02%

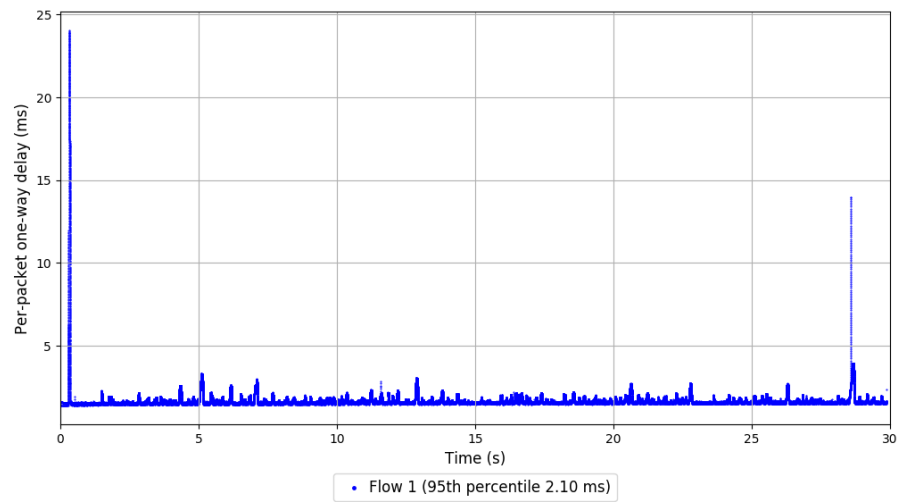
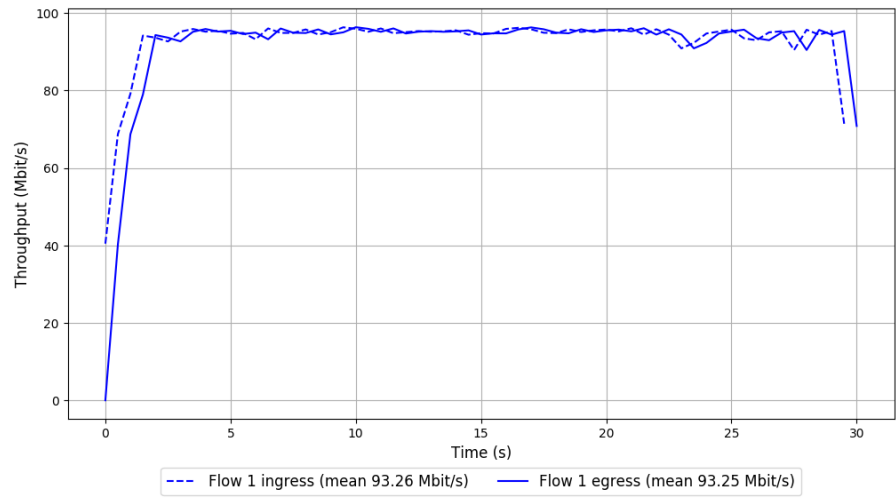
-- Flow 1:

Average throughput: 93.25 Mbit/s

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

Loss rate: 0.02%

## Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-01-25 11:39:14

End at: 2019-01-25 11:39:44

Local clock offset: -3.176 ms

Remote clock offset: 0.68 ms

# Below is generated by plot.py at 2019-01-25 12:49:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.06 Mbit/s

95th percentile per-packet one-way delay: 2.935 ms

Loss rate: 0.01%

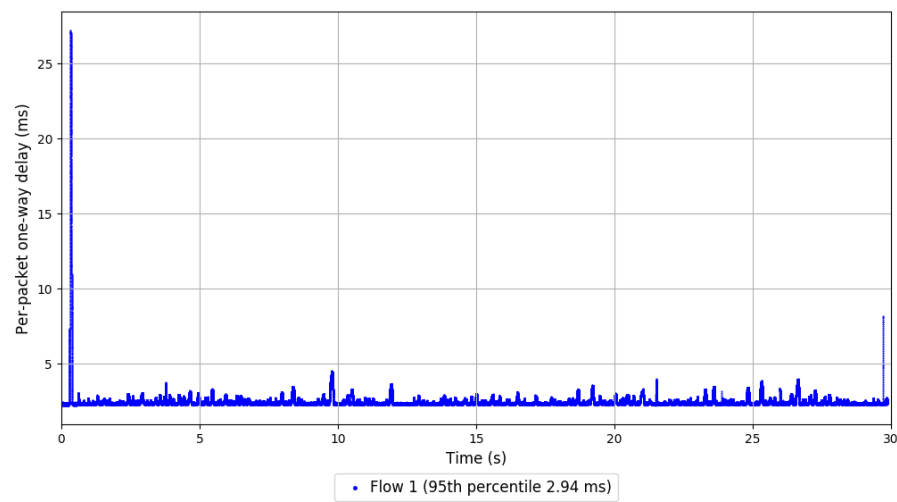
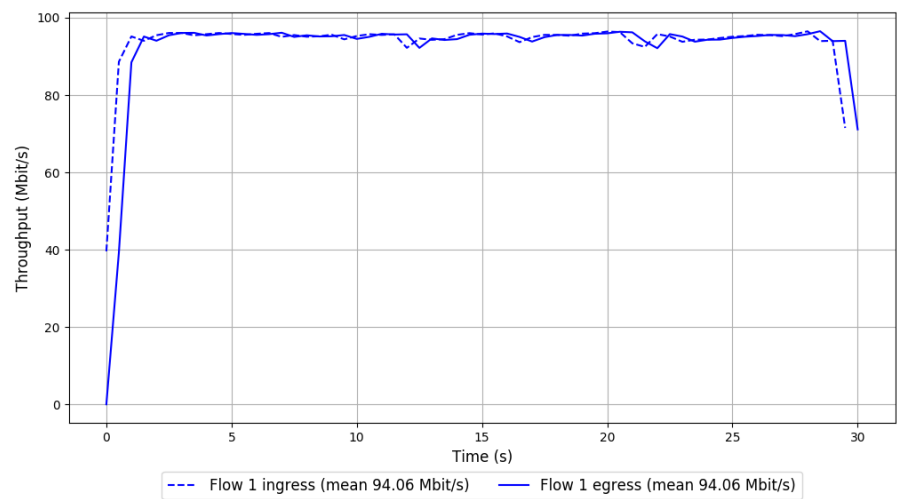
-- Flow 1:

Average throughput: 94.06 Mbit/s

95th percentile per-packet one-way delay: 2.935 ms

Loss rate: 0.01%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-01-25 12:02:58

End at: 2019-01-25 12:03:28

Local clock offset: -3.026 ms

Remote clock offset: 0.943 ms

# Below is generated by plot.py at 2019-01-25 12:50:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.20 Mbit/s

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

Loss rate: 0.02%

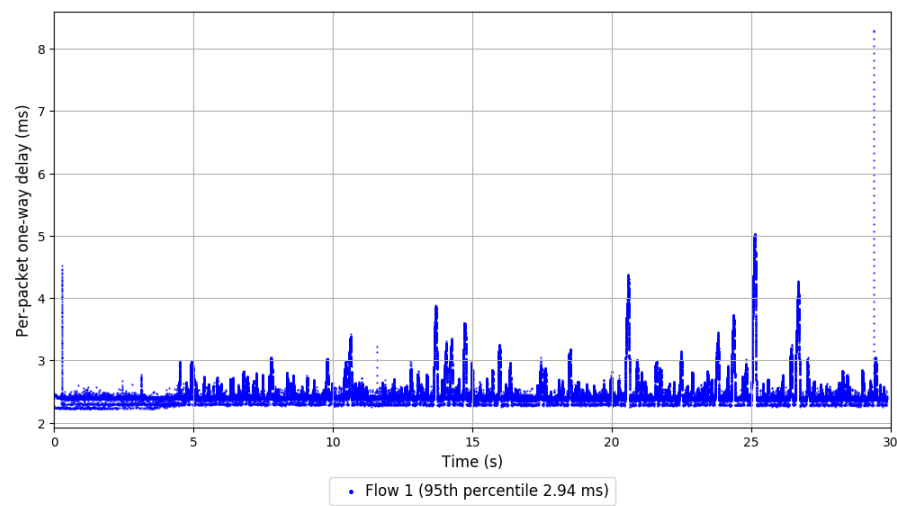
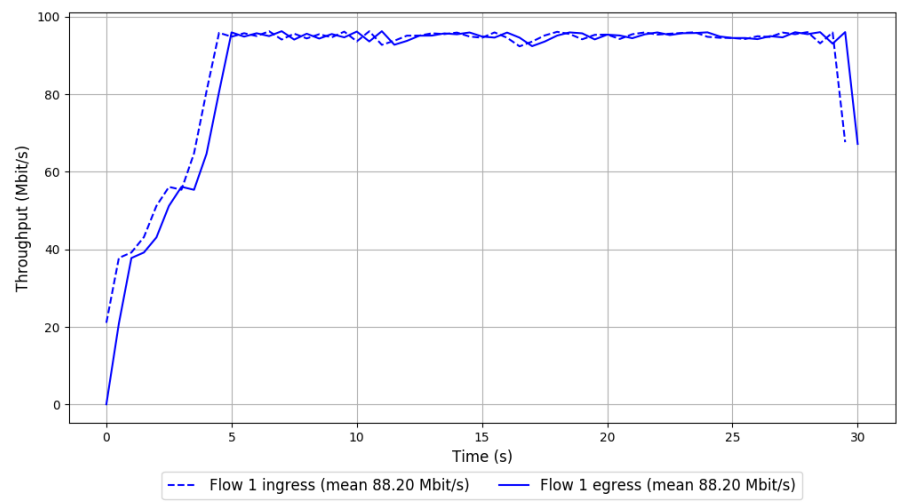
-- Flow 1:

Average throughput: 88.20 Mbit/s

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

Loss rate: 0.02%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-01-25 12:26:38

End at: 2019-01-25 12:27:08

Local clock offset: -2.869 ms

Remote clock offset: 1.009 ms

# Below is generated by plot.py at 2019-01-25 12:50:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.81 Mbit/s

95th percentile per-packet one-way delay: 2.884 ms

Loss rate: 0.02%

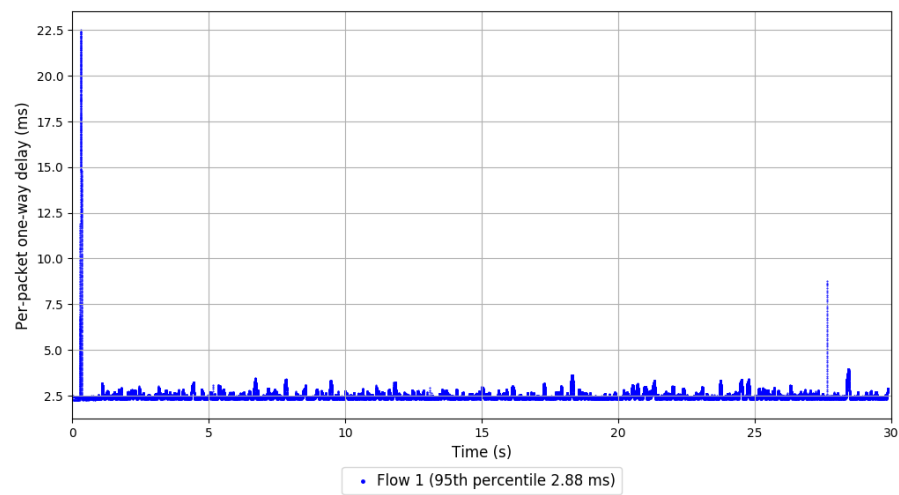
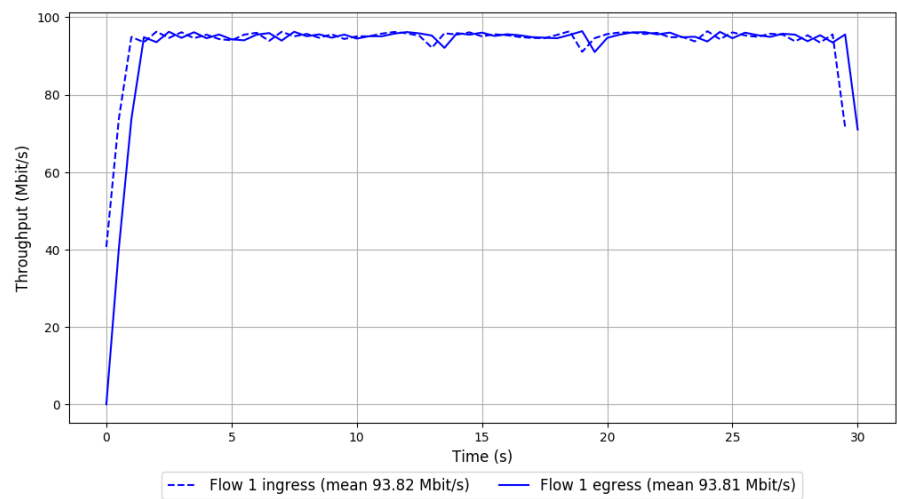
-- Flow 1:

Average throughput: 93.81 Mbit/s

95th percentile per-packet one-way delay: 2.884 ms

Loss rate: 0.02%

Run 5: Report of PCC-Allegro — Data Link





Run 1: Statistics of PCC-Expr

Start at: 2019-01-25 10:58:34

End at: 2019-01-25 10:59:04

Local clock offset: 1.452 ms

Remote clock offset: 0.126 ms

# Below is generated by plot.py at 2019-01-25 12:51:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.90 Mbit/s

95th percentile per-packet one-way delay: 307.399 ms

Loss rate: 0.26%

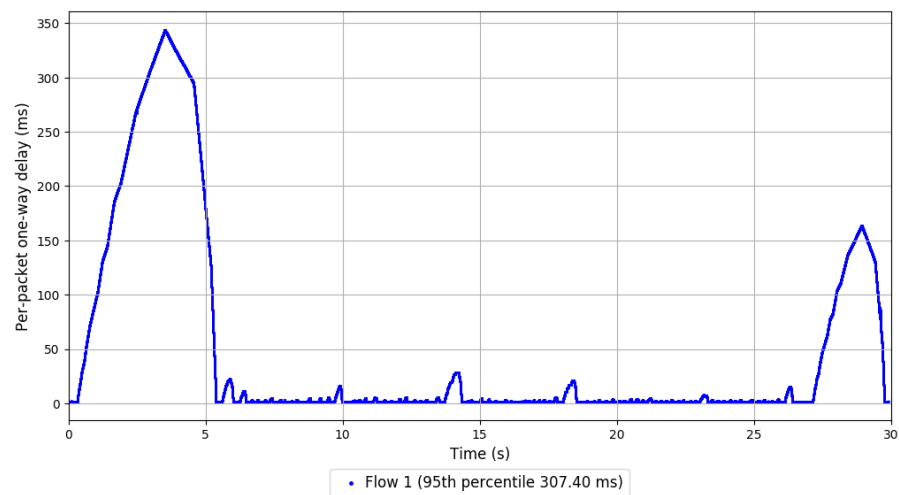
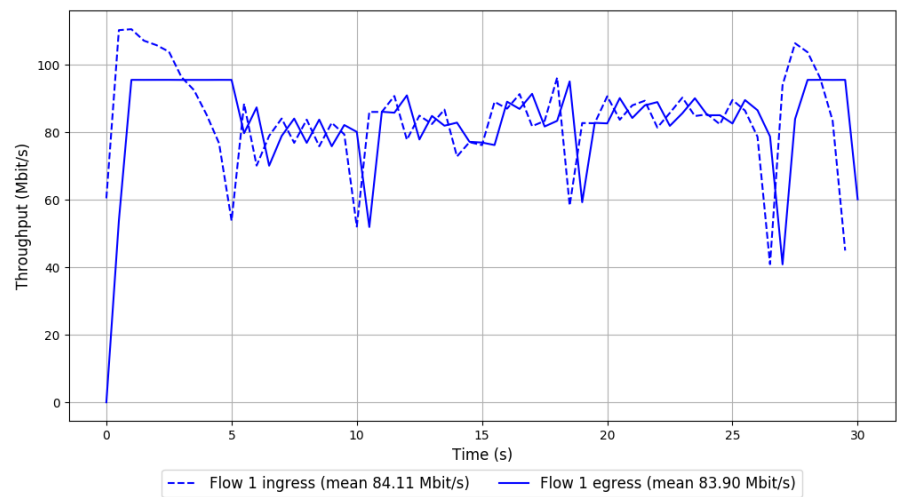
-- Flow 1:

Average throughput: 83.90 Mbit/s

95th percentile per-packet one-way delay: 307.399 ms

Loss rate: 0.26%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-01-25 11:22:16

End at: 2019-01-25 11:22:46

Local clock offset: -3.853 ms

Remote clock offset: 0.478 ms

# Below is generated by plot.py at 2019-01-25 12:51:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.72 Mbit/s

95th percentile per-packet one-way delay: 4.457 ms

Loss rate: 0.01%

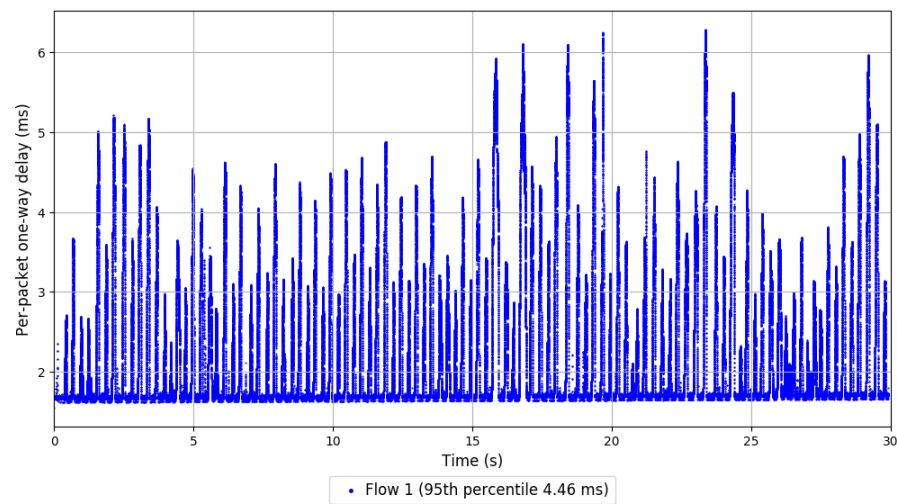
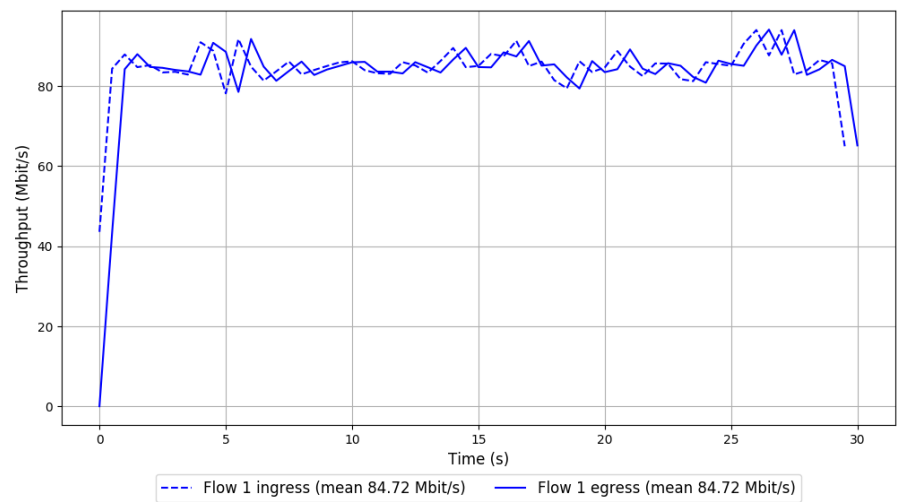
-- Flow 1:

Average throughput: 84.72 Mbit/s

95th percentile per-packet one-way delay: 4.457 ms

Loss rate: 0.01%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-01-25 11:46:00

End at: 2019-01-25 11:46:30

Local clock offset: -3.129 ms

Remote clock offset: 0.792 ms

# Below is generated by plot.py at 2019-01-25 12:51:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.18 Mbit/s

95th percentile per-packet one-way delay: 5.568 ms

Loss rate: 0.01%

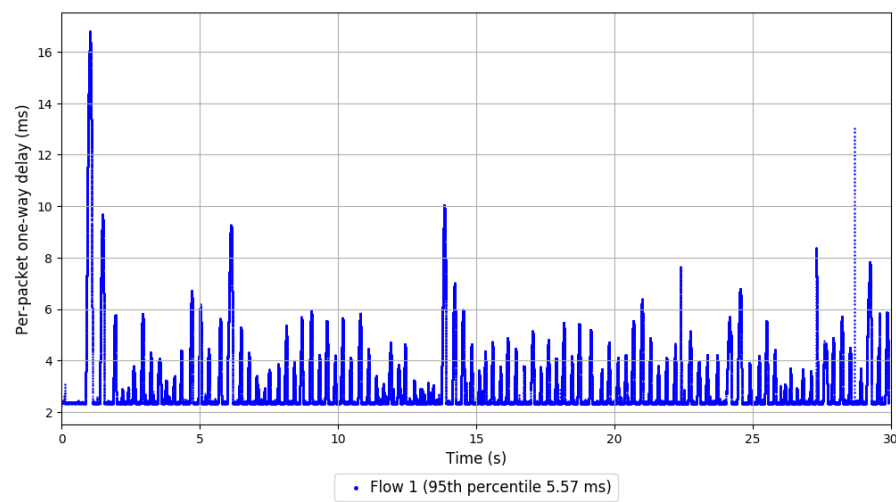
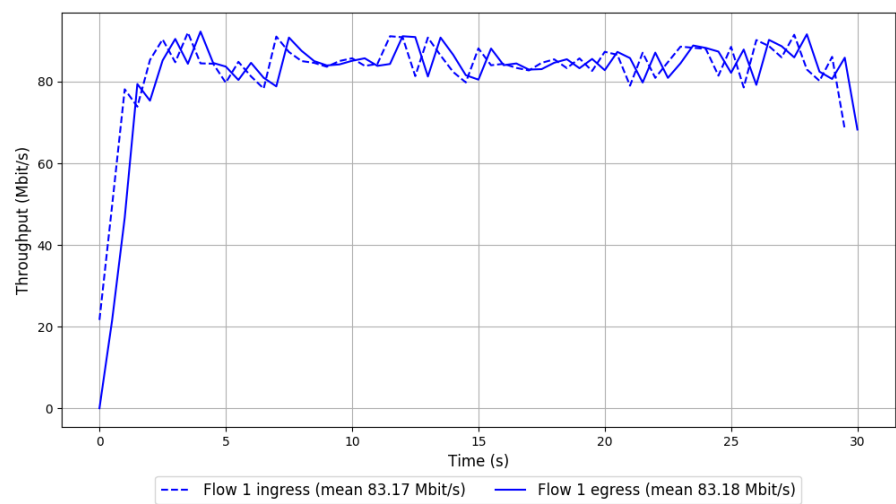
-- Flow 1:

Average throughput: 83.18 Mbit/s

95th percentile per-packet one-way delay: 5.568 ms

Loss rate: 0.01%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-01-25 12:09:39

End at: 2019-01-25 12:10:09

Local clock offset: -2.888 ms

Remote clock offset: 0.963 ms

# Below is generated by plot.py at 2019-01-25 12:51:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.62 Mbit/s

95th percentile per-packet one-way delay: 51.284 ms

Loss rate: 0.77%

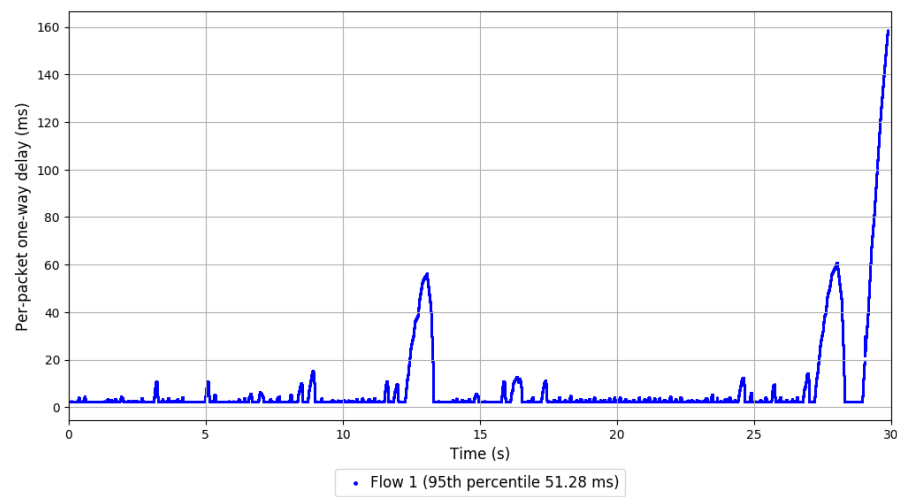
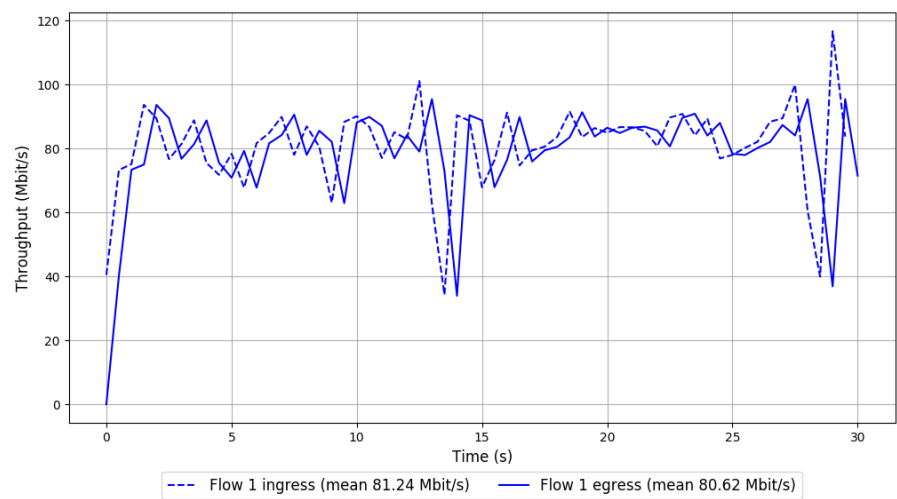
-- Flow 1:

Average throughput: 80.62 Mbit/s

95th percentile per-packet one-way delay: 51.284 ms

Loss rate: 0.77%

Run 4: Report of PCC-Expr — Data Link





Run 5: Statistics of PCC-Expr

Start at: 2019-01-25 12:33:23

End at: 2019-01-25 12:33:53

Local clock offset: -4.008 ms

Remote clock offset: 0.999 ms

# Below is generated by plot.py at 2019-01-25 12:51:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.02 Mbit/s

95th percentile per-packet one-way delay: 640.426 ms

Loss rate: 4.69%

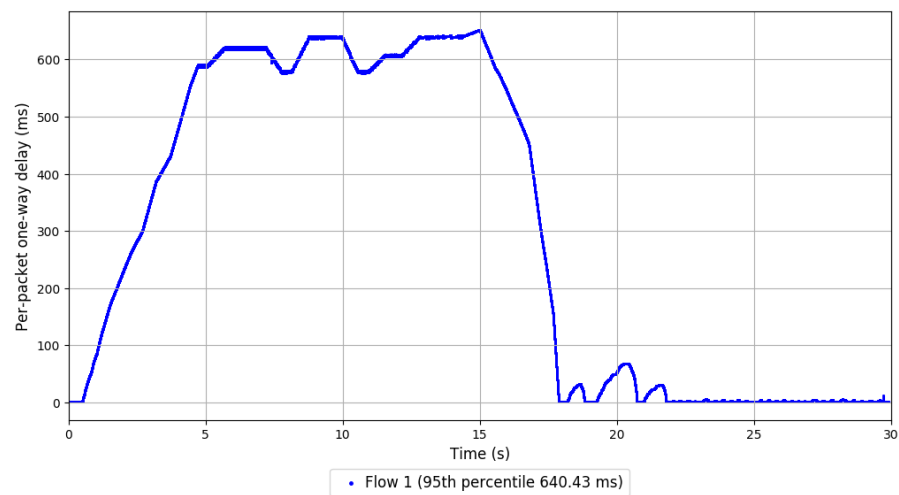
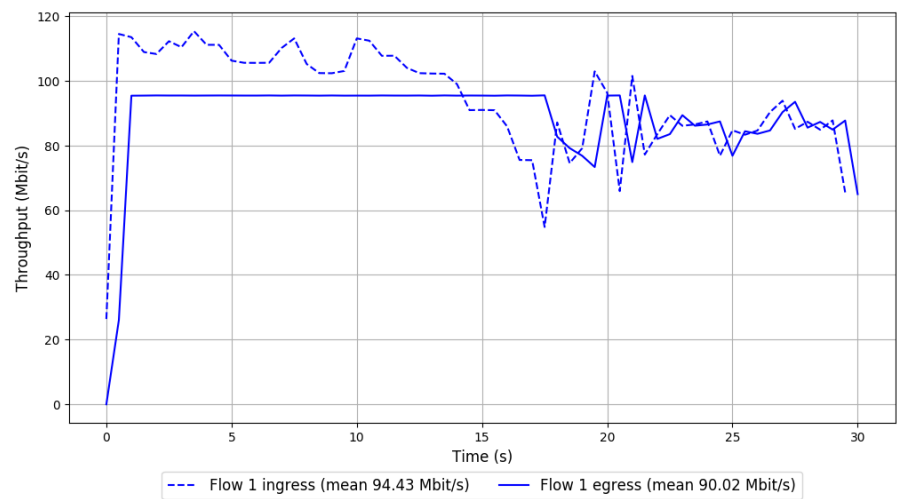
-- Flow 1:

Average throughput: 90.02 Mbit/s

95th percentile per-packet one-way delay: 640.426 ms

Loss rate: 4.69%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-01-25 10:50:45

End at: 2019-01-25 10:51:15

Local clock offset: 1.177 ms

Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2019-01-25 12:51:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.03 Mbit/s

95th percentile per-packet one-way delay: 7.895 ms

Loss rate: 0.02%

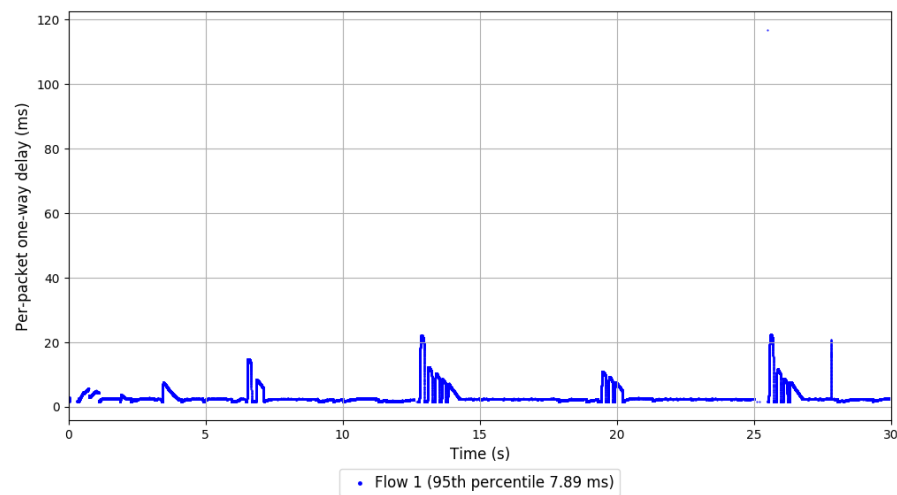
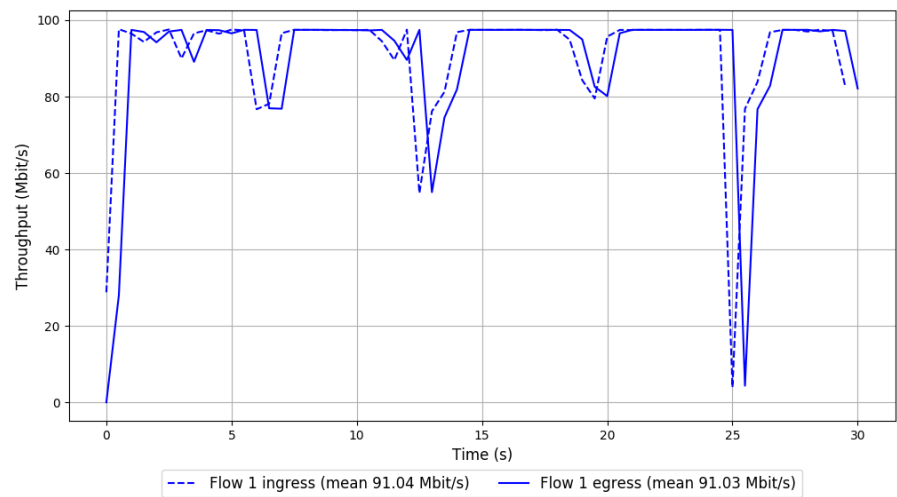
-- Flow 1:

Average throughput: 91.03 Mbit/s

95th percentile per-packet one-way delay: 7.895 ms

Loss rate: 0.02%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-01-25 11:14:26

End at: 2019-01-25 11:14:56

Local clock offset: -3.086 ms

Remote clock offset: 0.328 ms

# Below is generated by plot.py at 2019-01-25 12:51:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.72 Mbit/s

95th percentile per-packet one-way delay: 6.918 ms

Loss rate: 0.02%

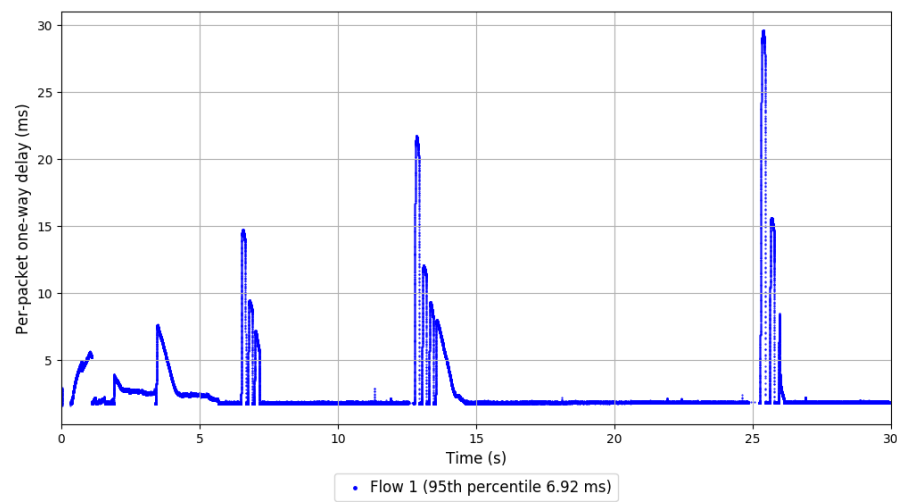
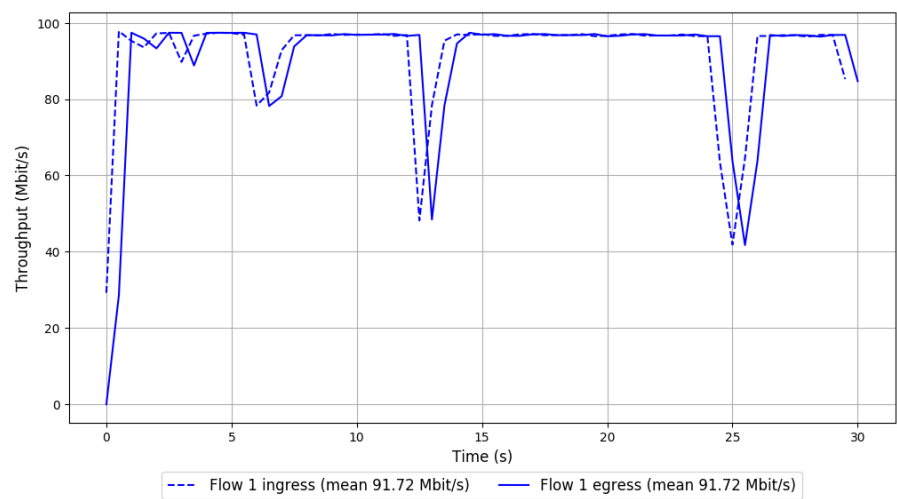
-- Flow 1:

Average throughput: 91.72 Mbit/s

95th percentile per-packet one-way delay: 6.918 ms

Loss rate: 0.02%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-01-25 11:38:06

End at: 2019-01-25 11:38:36

Local clock offset: -3.116 ms

Remote clock offset: 0.598 ms

# Below is generated by plot.py at 2019-01-25 12:51:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.98 Mbit/s

95th percentile per-packet one-way delay: 8.432 ms

Loss rate: 0.02%

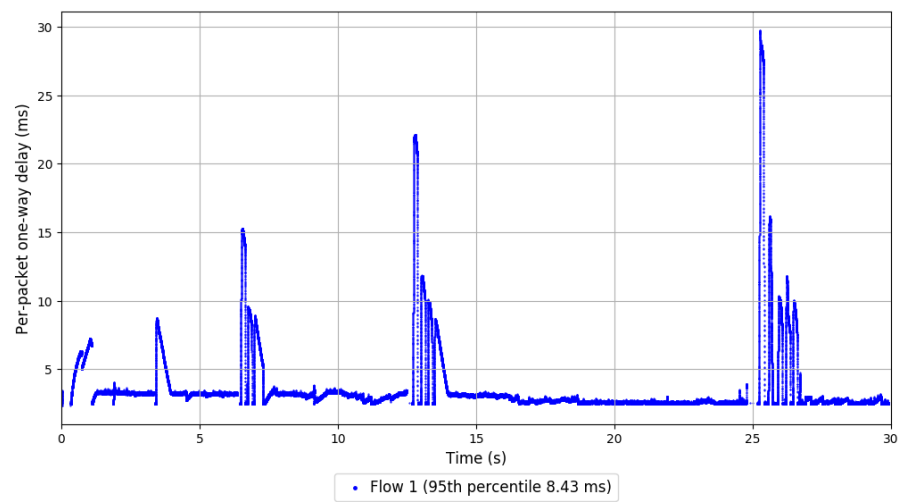
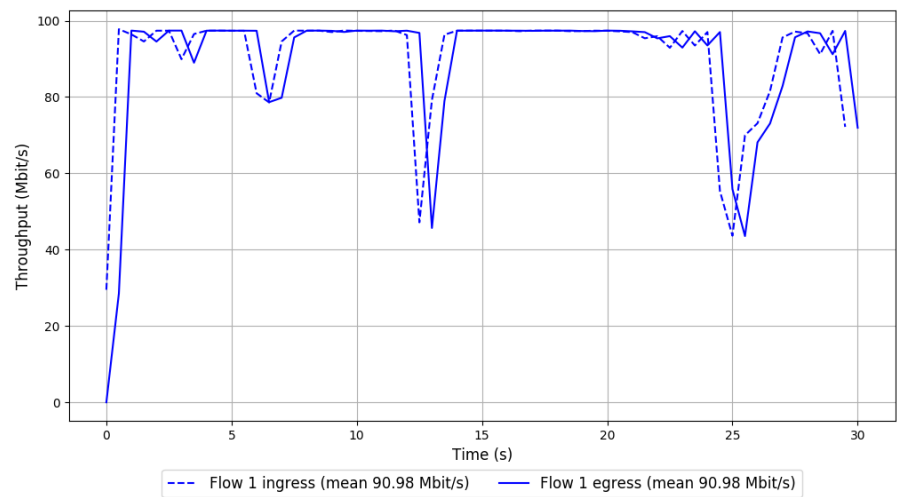
-- Flow 1:

Average throughput: 90.98 Mbit/s

95th percentile per-packet one-way delay: 8.432 ms

Loss rate: 0.02%

Run 3: Report of QUIC Cubic — Data Link





Run 4: Statistics of QUIC Cubic

Start at: 2019-01-25 12:01:50

End at: 2019-01-25 12:02:20

Local clock offset: -3.101 ms

Remote clock offset: 0.879 ms

# Below is generated by plot.py at 2019-01-25 12:52:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.93 Mbit/s

95th percentile per-packet one-way delay: 9.862 ms

Loss rate: 0.02%

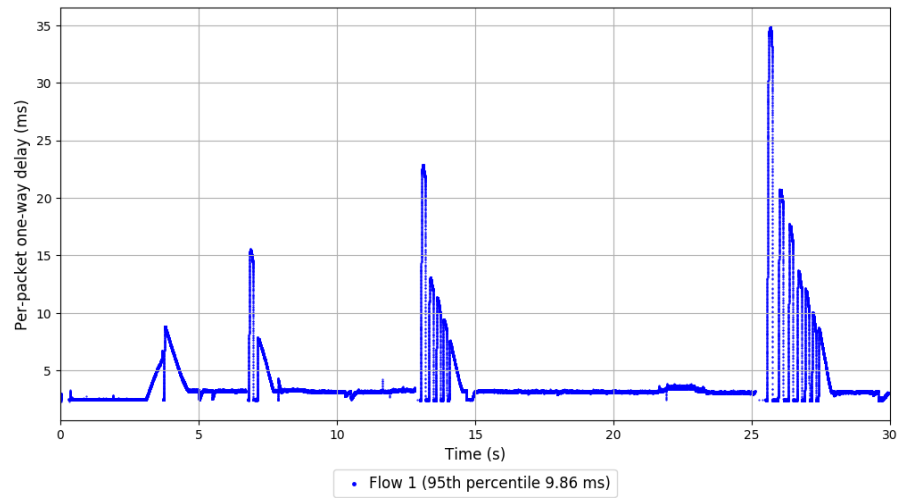
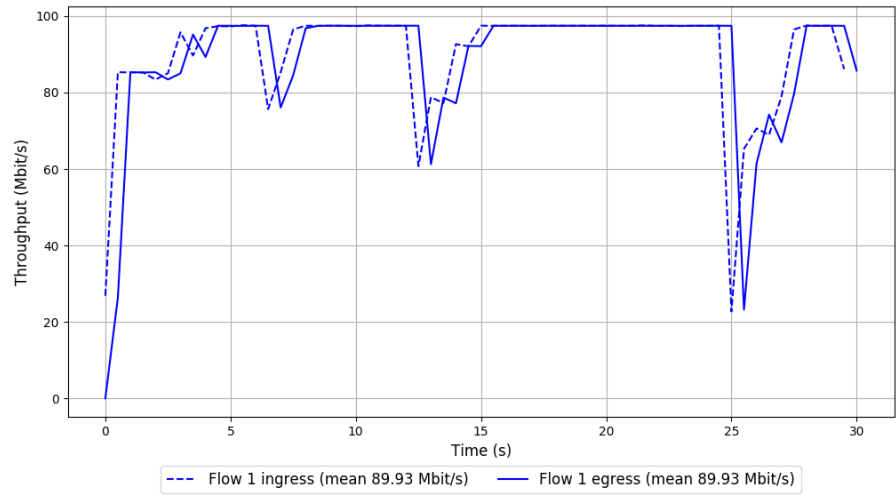
-- Flow 1:

Average throughput: 89.93 Mbit/s

95th percentile per-packet one-way delay: 9.862 ms

Loss rate: 0.02%

#### Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-01-25 12:25:30

End at: 2019-01-25 12:26:00

Local clock offset: -3.693 ms

Remote clock offset: 1.023 ms

# Below is generated by plot.py at 2019-01-25 12:52:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.38 Mbit/s

95th percentile per-packet one-way delay: 2.921 ms

Loss rate: 0.02%

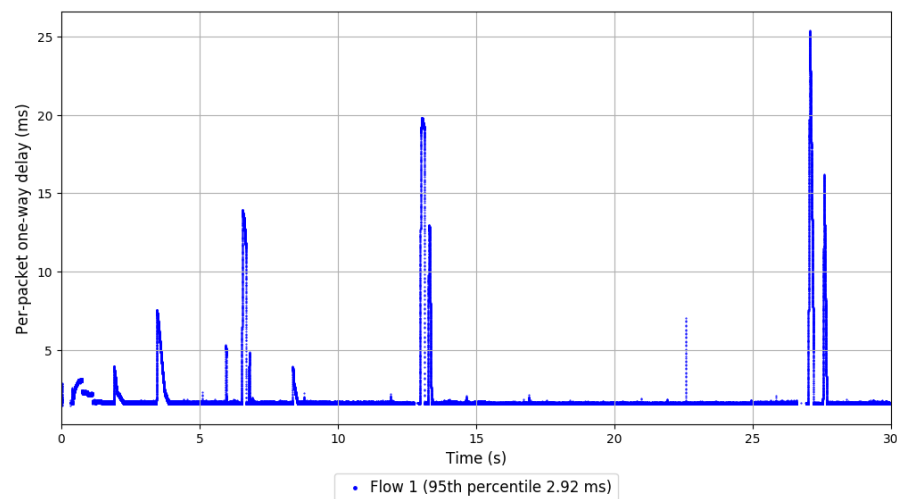
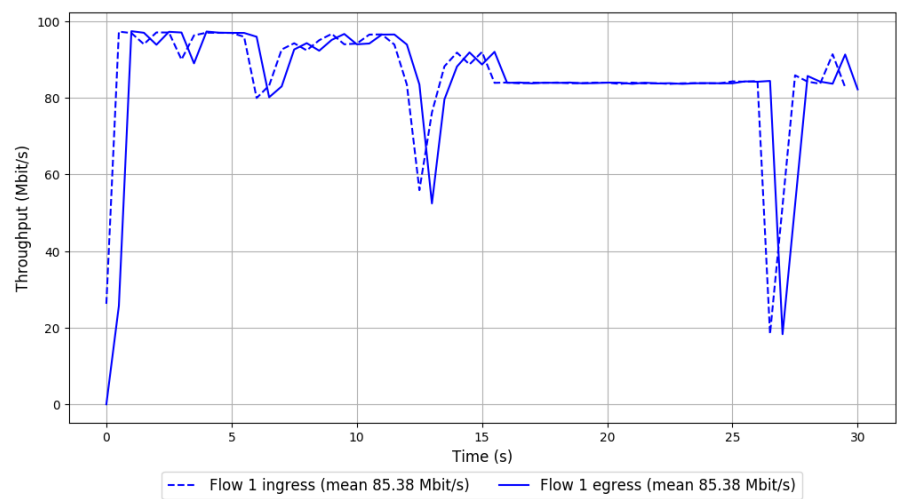
-- Flow 1:

Average throughput: 85.38 Mbit/s

95th percentile per-packet one-way delay: 2.921 ms

Loss rate: 0.02%

Run 5: Report of QUIC Cubic — Data Link

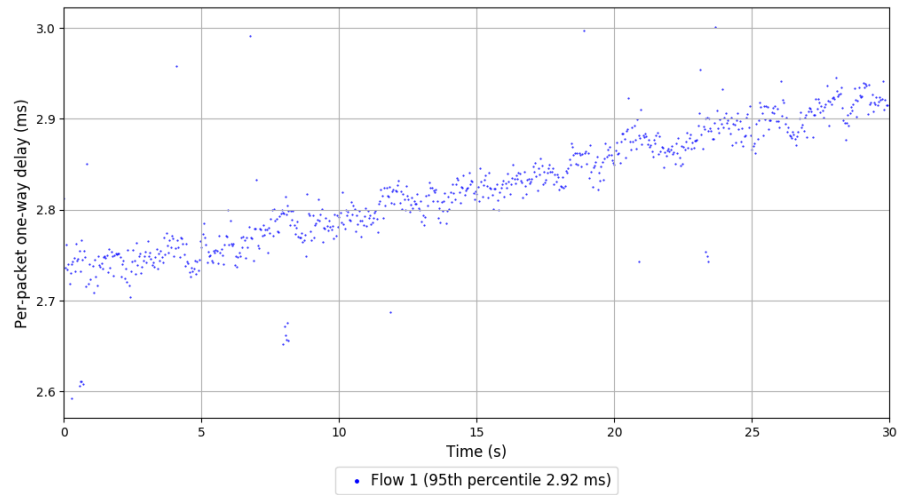
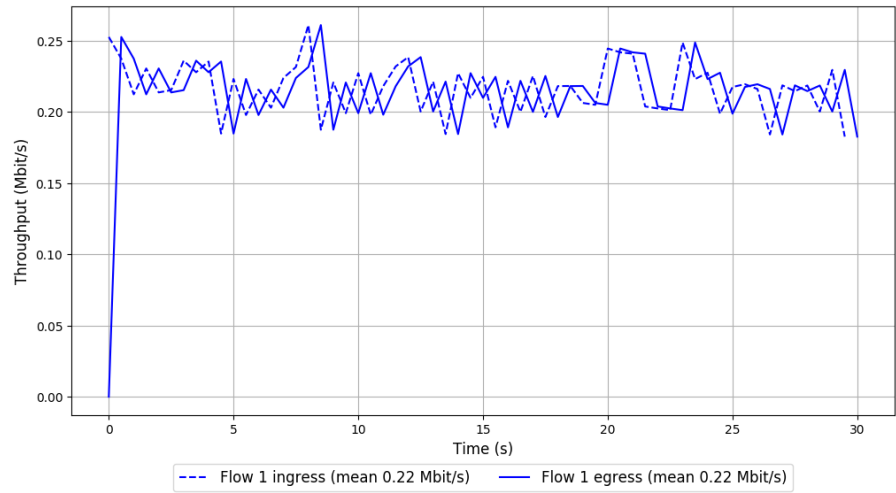


```
Run 1: Statistics of SCReAM

Start at: 2019-01-25 11:03:08
End at: 2019-01-25 11:03:38
Local clock offset: 0.502 ms
Remote clock offset: 0.051 ms

# Below is generated by plot.py at 2019-01-25 12:52:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.921 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.921 ms
Loss rate: 0.00%
```

## Run 1: Report of SCReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-01-25 11:26:50

End at: 2019-01-25 11:27:20

Local clock offset: -4.115 ms

Remote clock offset: 0.521 ms

# Below is generated by plot.py at 2019-01-25 12:52:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.745 ms

Loss rate: 0.00%

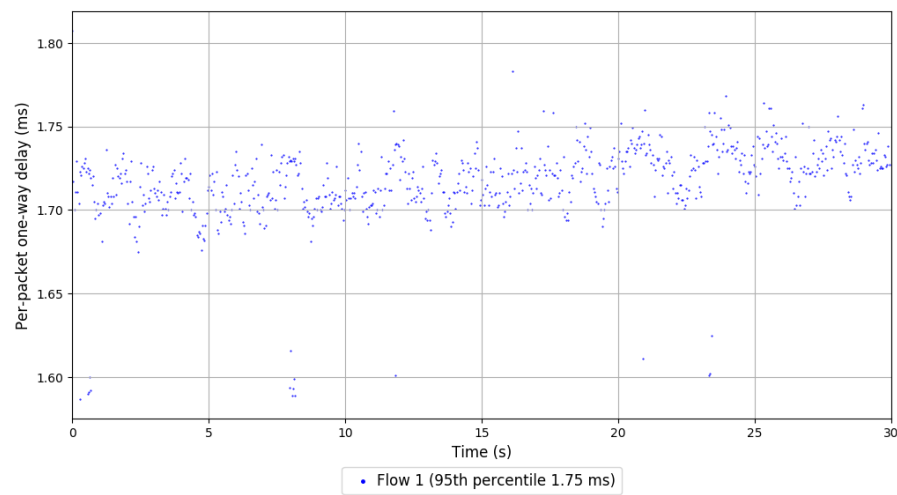
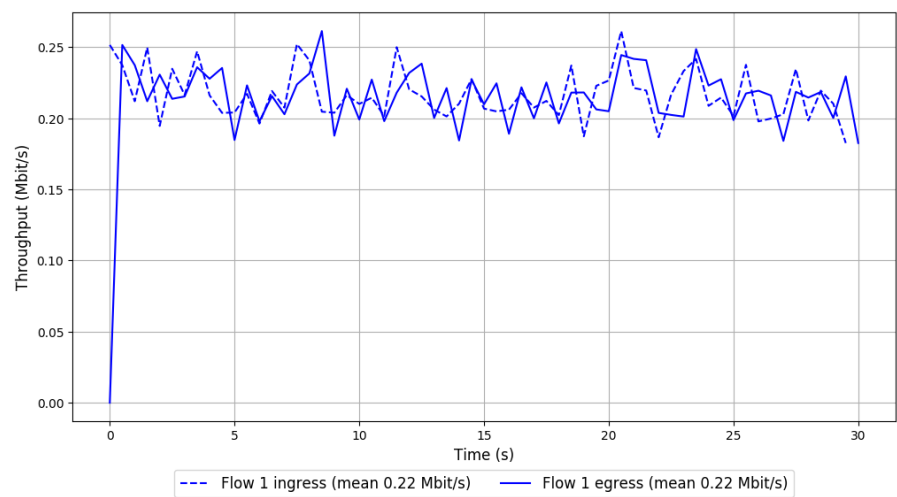
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.745 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link





Run 3: Statistics of SCReAM

Start at: 2019-01-25 11:50:32

End at: 2019-01-25 11:51:02

Local clock offset: -3.853 ms

Remote clock offset: 0.784 ms

# Below is generated by plot.py at 2019-01-25 12:52:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.715 ms

Loss rate: 0.00%

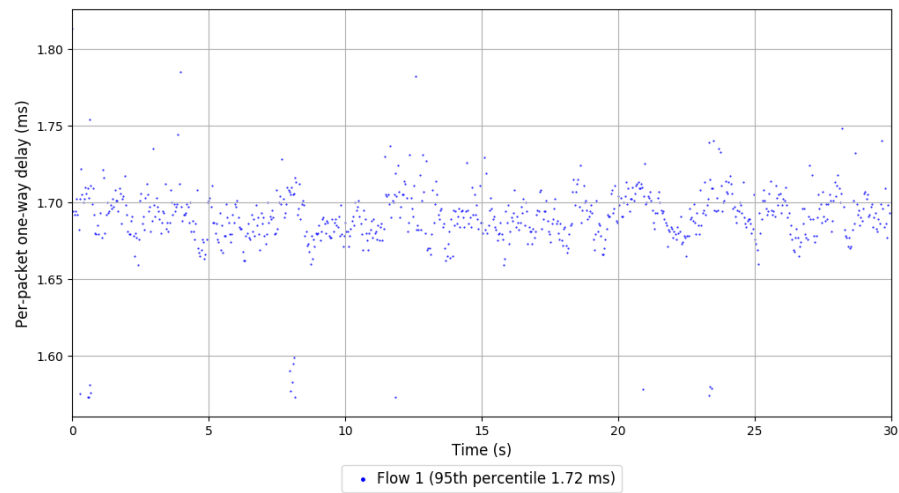
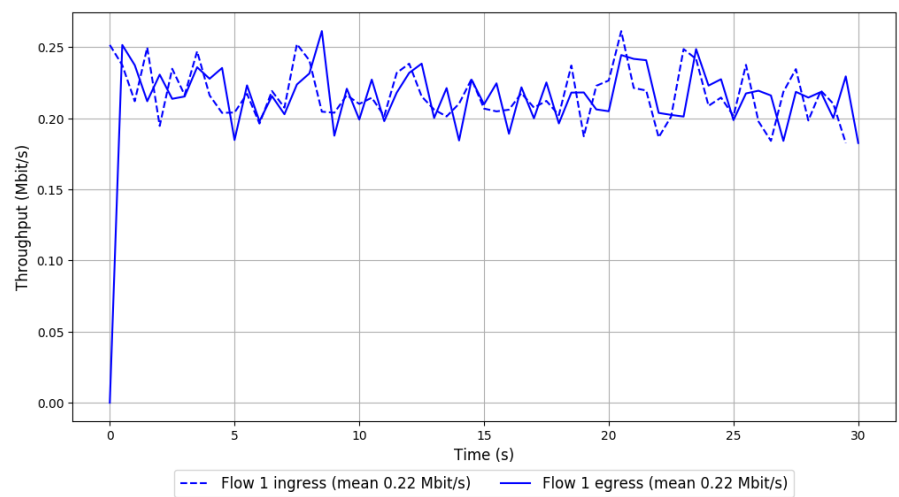
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.715 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-01-25 12:14:13

End at: 2019-01-25 12:14:43

Local clock offset: -3.609 ms

Remote clock offset: 0.992 ms

# Below is generated by plot.py at 2019-01-25 12:52:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.706 ms

Loss rate: 0.00%

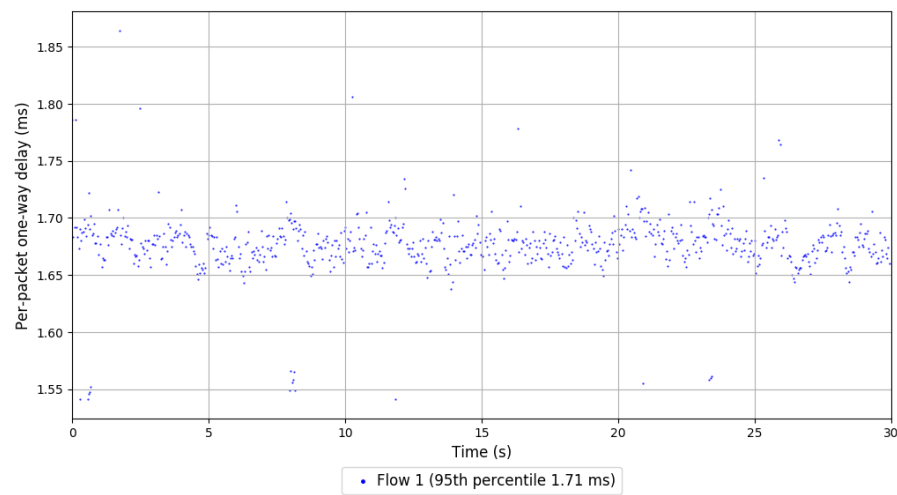
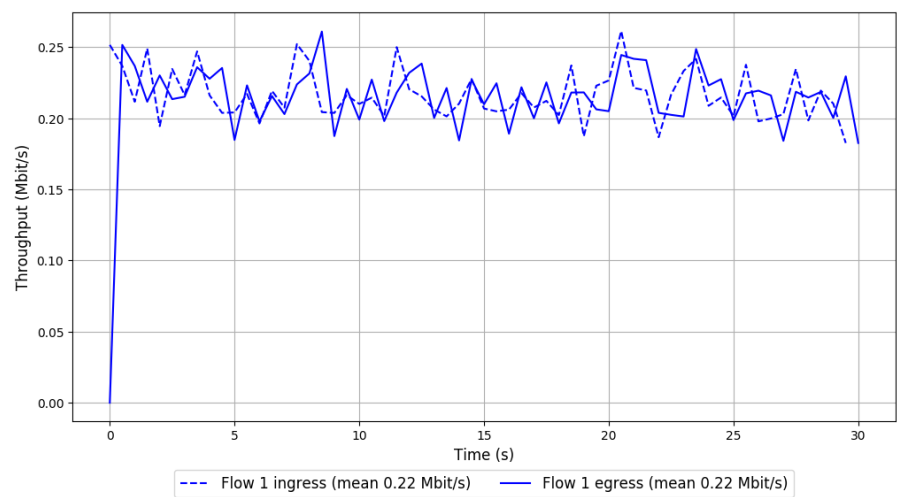
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.706 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-01-25 12:37:58

End at: 2019-01-25 12:38:28

Local clock offset: -4.275 ms

Remote clock offset: 0.854 ms

# Below is generated by plot.py at 2019-01-25 12:52:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.740 ms

Loss rate: 0.00%

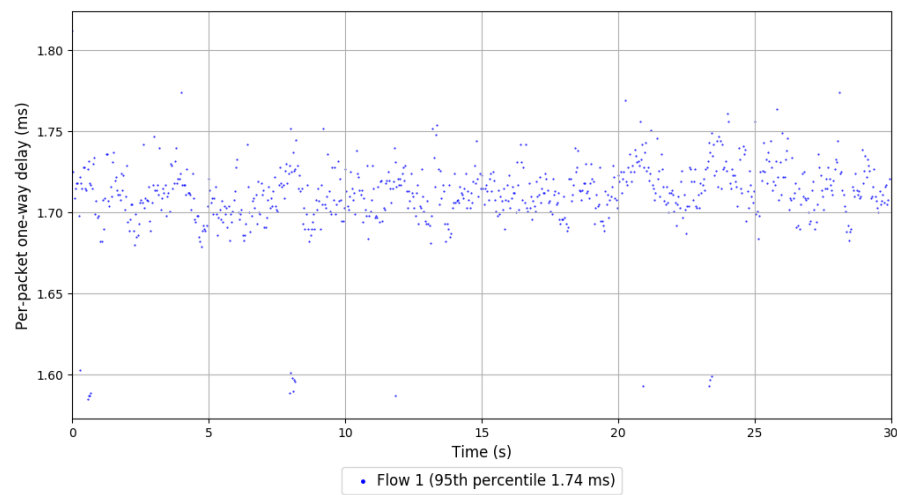
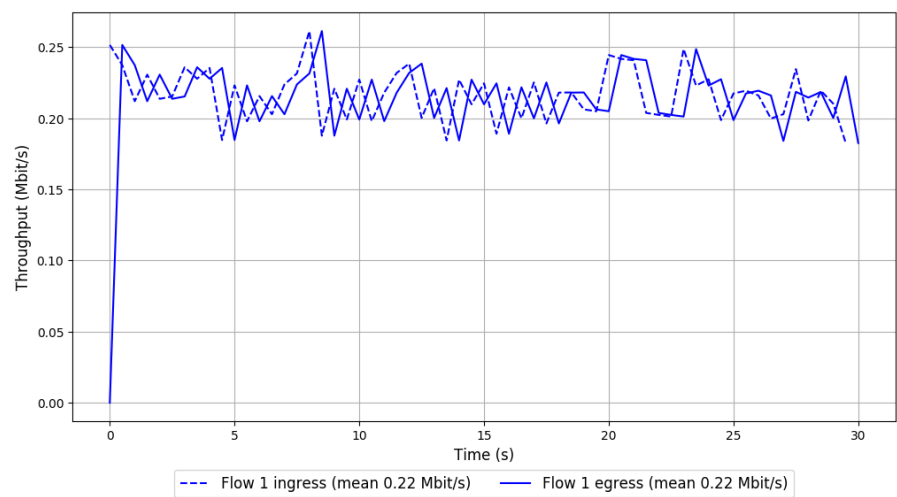
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.740 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-01-25 10:55:13

End at: 2019-01-25 10:55:43

Local clock offset: 2.085 ms

Remote clock offset: 0.08 ms

# Below is generated by plot.py at 2019-01-25 12:52:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.23 Mbit/s

95th percentile per-packet one-way delay: 10.774 ms

Loss rate: 0.06%

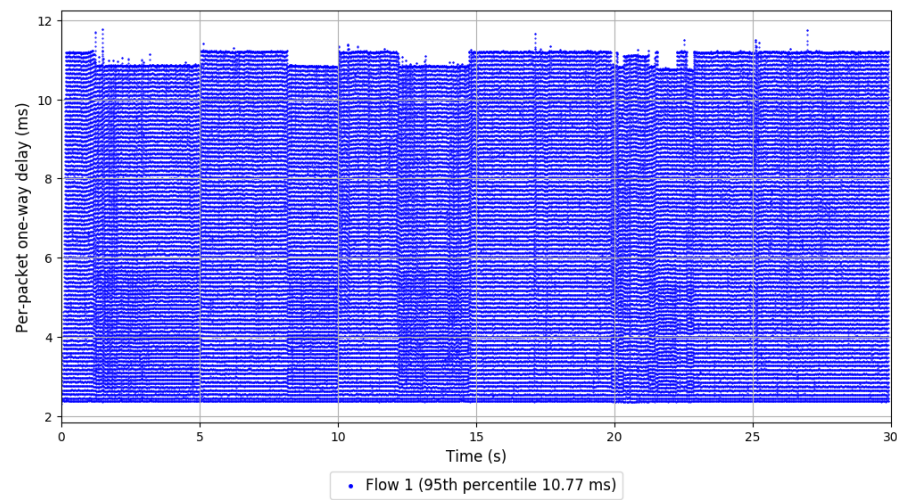
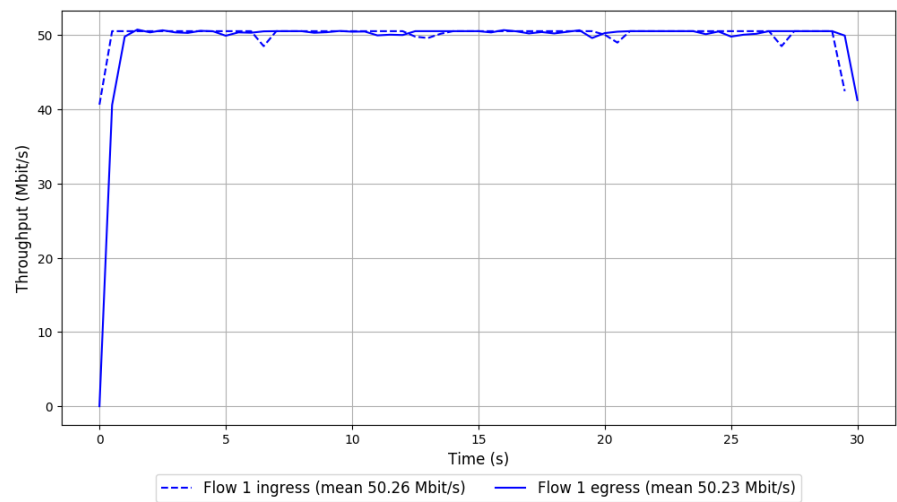
-- Flow 1:

Average throughput: 50.23 Mbit/s

95th percentile per-packet one-way delay: 10.774 ms

Loss rate: 0.06%

Run 1: Report of Sprout — Data Link



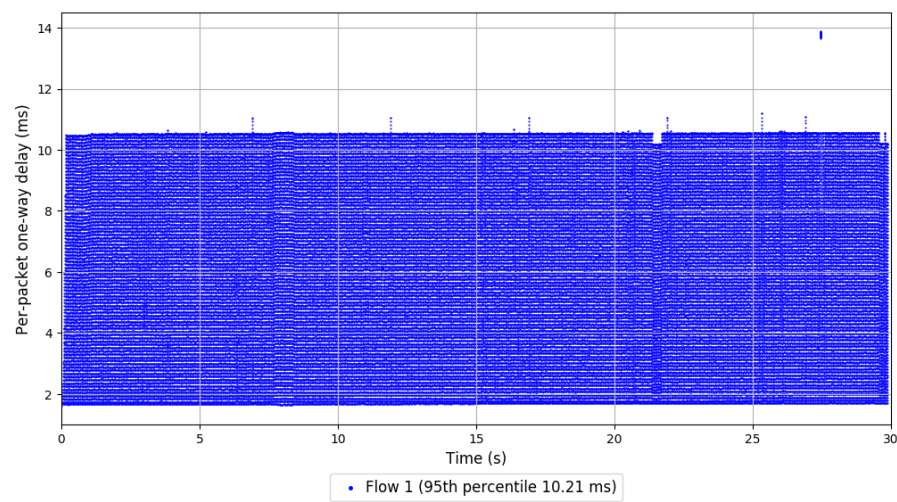
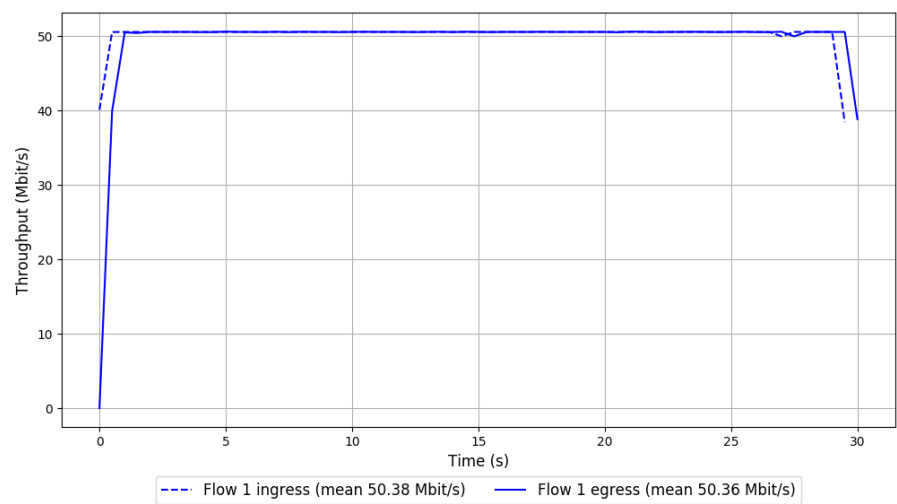


Run 2: Statistics of Sprout

Start at: 2019-01-25 11:18:55  
End at: 2019-01-25 11:19:25  
Local clock offset: -3.581 ms  
Remote clock offset: 0.475 ms

# Below is generated by plot.py at 2019-01-25 12:52:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.36 Mbit/s  
95th percentile per-packet one-way delay: 10.215 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 50.36 Mbit/s  
95th percentile per-packet one-way delay: 10.215 ms  
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

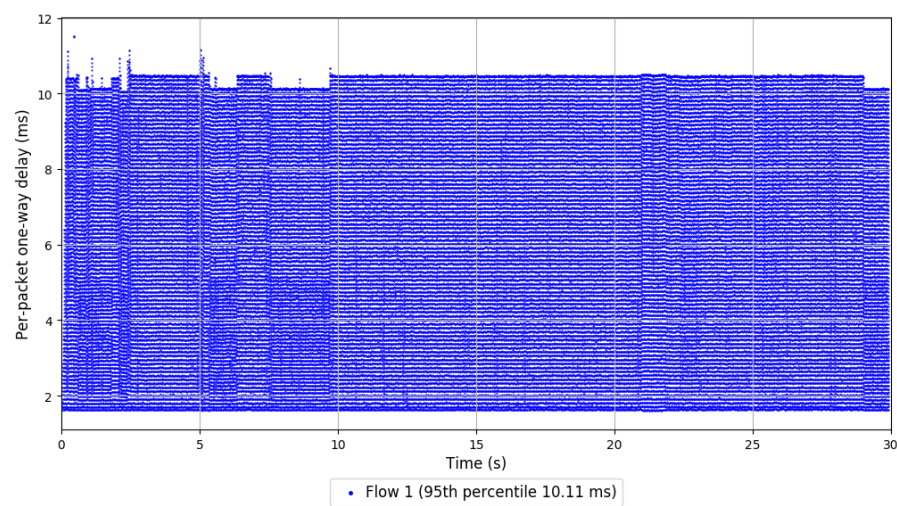
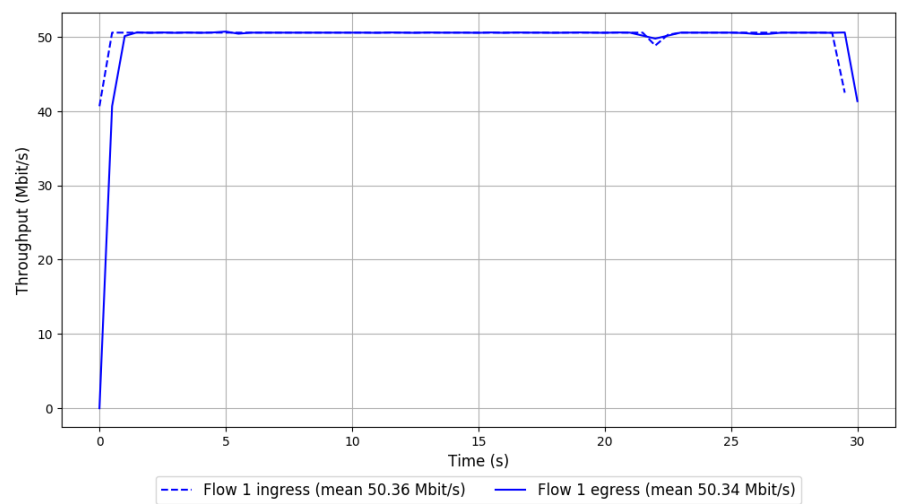


Run 3: Statistics of Sprout

Start at: 2019-01-25 11:42:38  
End at: 2019-01-25 11:43:08  
Local clock offset: -3.834 ms  
Remote clock offset: 0.798 ms

# Below is generated by plot.py at 2019-01-25 12:52:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.34 Mbit/s  
95th percentile per-packet one-way delay: 10.109 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 50.34 Mbit/s  
95th percentile per-packet one-way delay: 10.109 ms  
Loss rate: 0.05%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-01-25 12:06:18

End at: 2019-01-25 12:06:48

Local clock offset: -3.698 ms

Remote clock offset: 0.946 ms

# Below is generated by plot.py at 2019-01-25 12:52:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.23 Mbit/s

95th percentile per-packet one-way delay: 10.199 ms

Loss rate: 0.00%

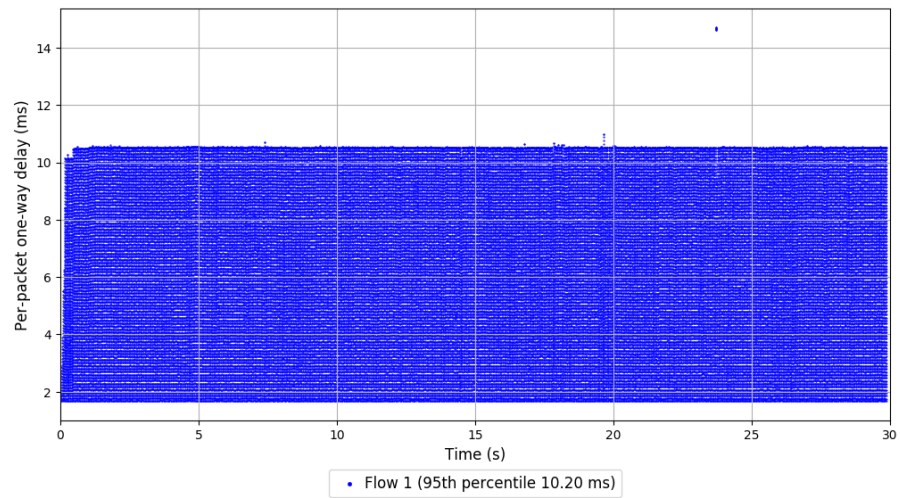
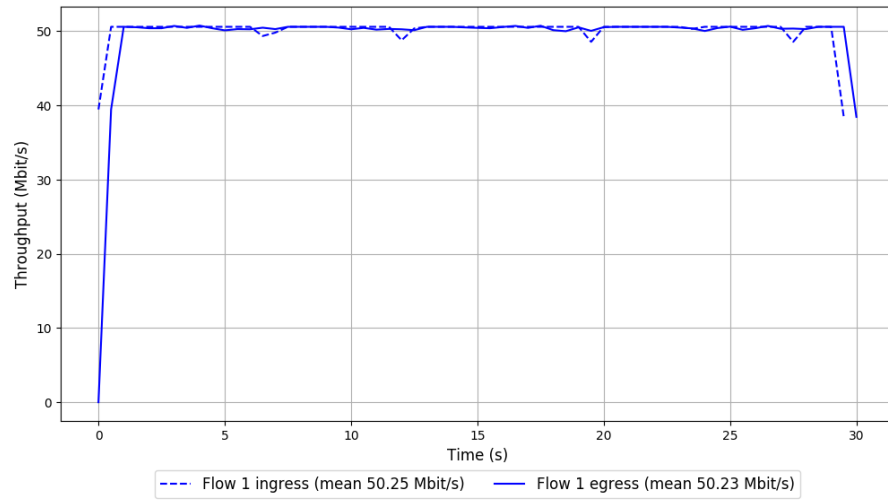
-- Flow 1:

Average throughput: 50.23 Mbit/s

95th percentile per-packet one-way delay: 10.199 ms

Loss rate: 0.00%

#### Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-01-25 12:30:02

End at: 2019-01-25 12:30:32

Local clock offset: -2.943 ms

Remote clock offset: 1.038 ms

# Below is generated by plot.py at 2019-01-25 12:52:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.31 Mbit/s

95th percentile per-packet one-way delay: 10.923 ms

Loss rate: 0.04%

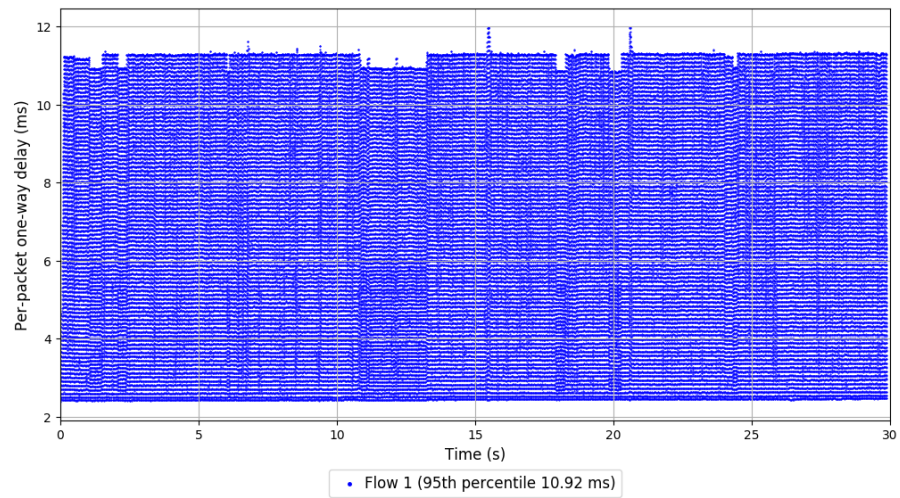
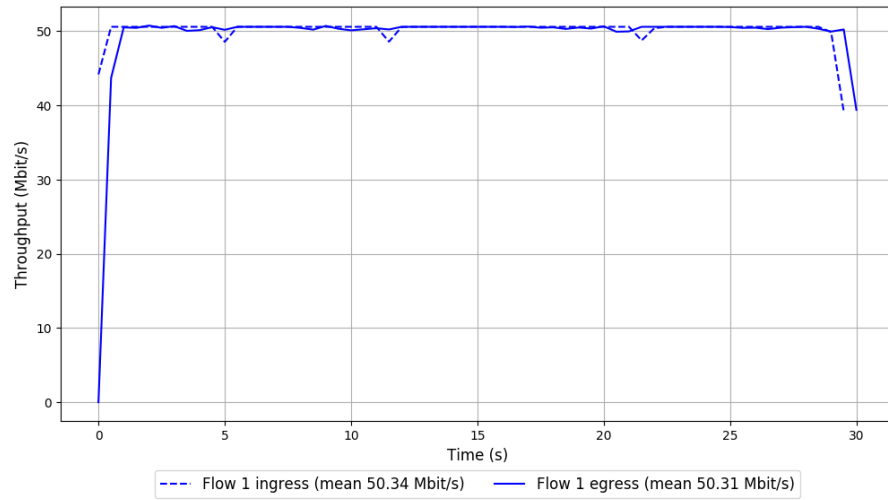
-- Flow 1:

Average throughput: 50.31 Mbit/s

95th percentile per-packet one-way delay: 10.923 ms

Loss rate: 0.04%

## Run 5: Report of Sprout — Data Link



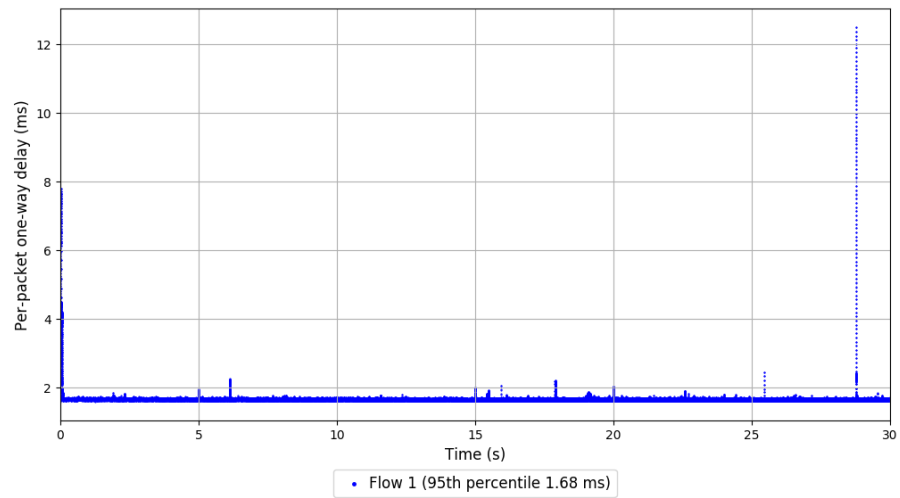
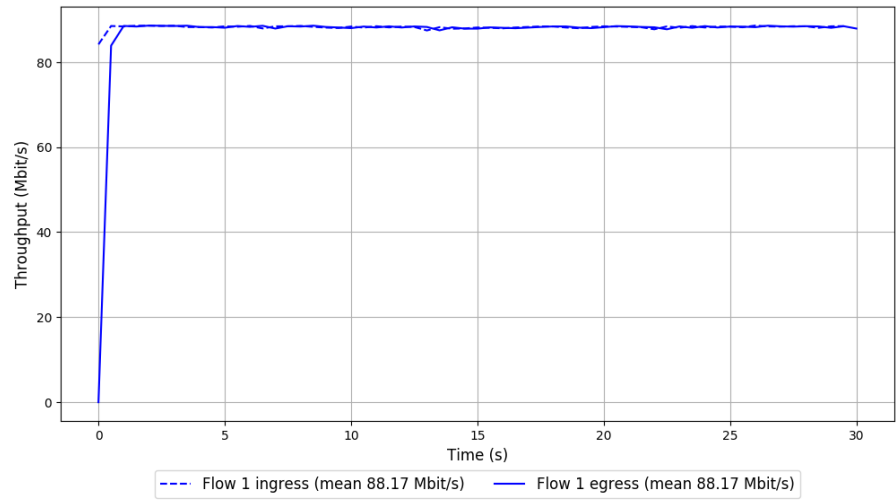


```
Run 1: Statistics of TaoVA-100x

Start at: 2019-01-25 10:48:25
End at: 2019-01-25 10:48:55
Local clock offset: 1.094 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2019-01-25 12:53:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.17 Mbit/s
95th percentile per-packet one-way delay: 1.681 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 88.17 Mbit/s
95th percentile per-packet one-way delay: 1.681 ms
Loss rate: 0.02%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-01-25 11:12:07

End at: 2019-01-25 11:12:37

Local clock offset: -2.028 ms

Remote clock offset: 0.352 ms

# Below is generated by plot.py at 2019-01-25 12:53:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.12 Mbit/s

95th percentile per-packet one-way delay: 2.473 ms

Loss rate: 0.02%

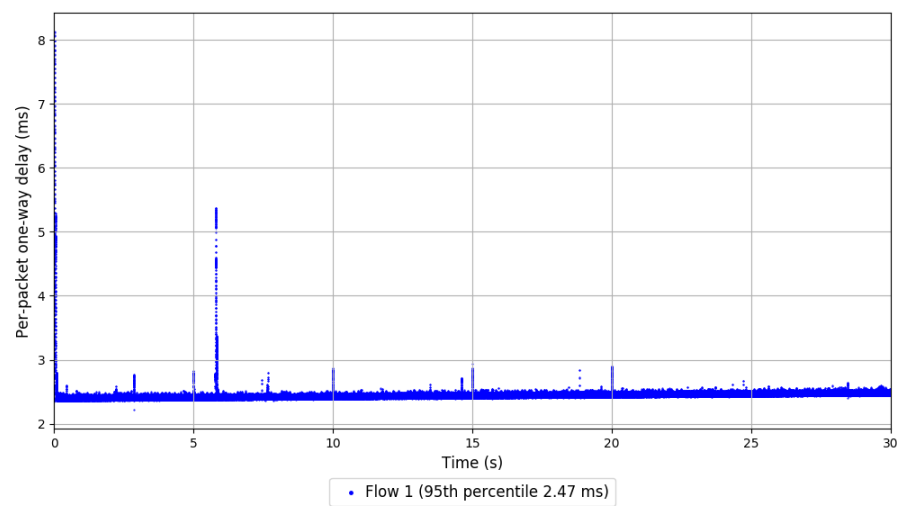
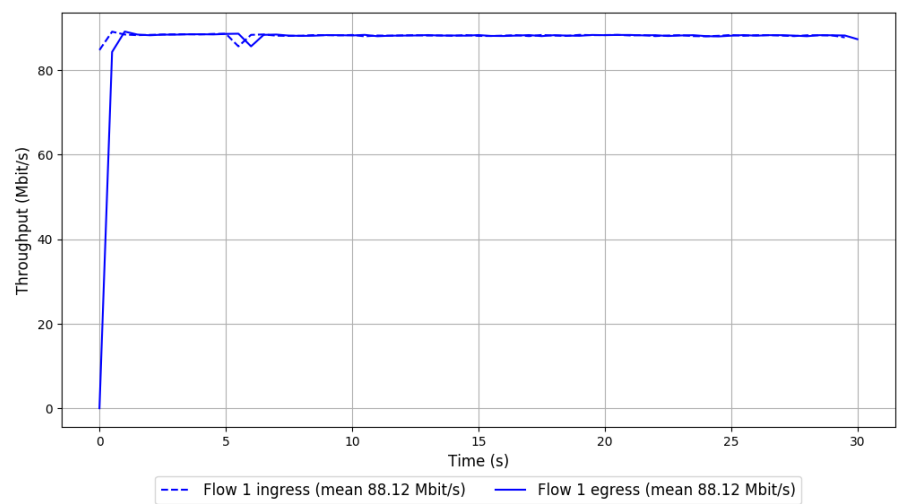
-- Flow 1:

Average throughput: 88.12 Mbit/s

95th percentile per-packet one-way delay: 2.473 ms

Loss rate: 0.02%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-01-25 11:35:47

End at: 2019-01-25 11:36:17

Local clock offset: -3.18 ms

Remote clock offset: 0.6 ms

# Below is generated by plot.py at 2019-01-25 12:53:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.74 Mbit/s

95th percentile per-packet one-way delay: 2.472 ms

Loss rate: 0.01%

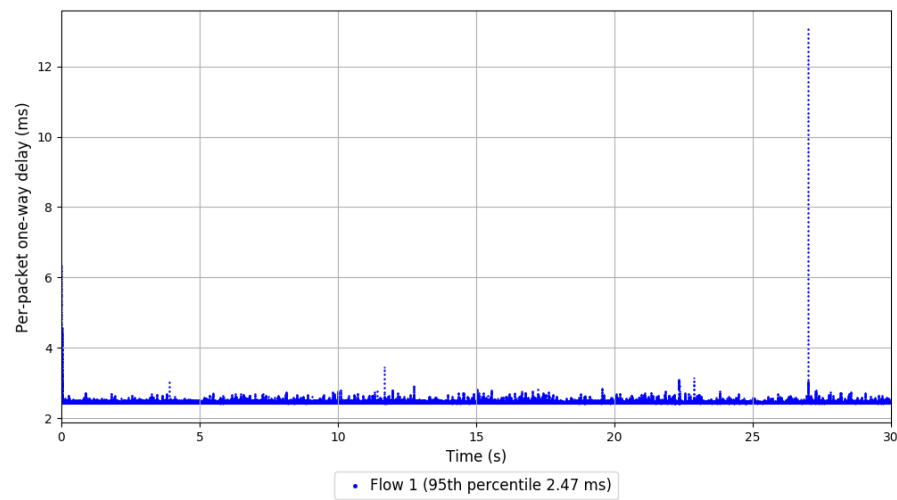
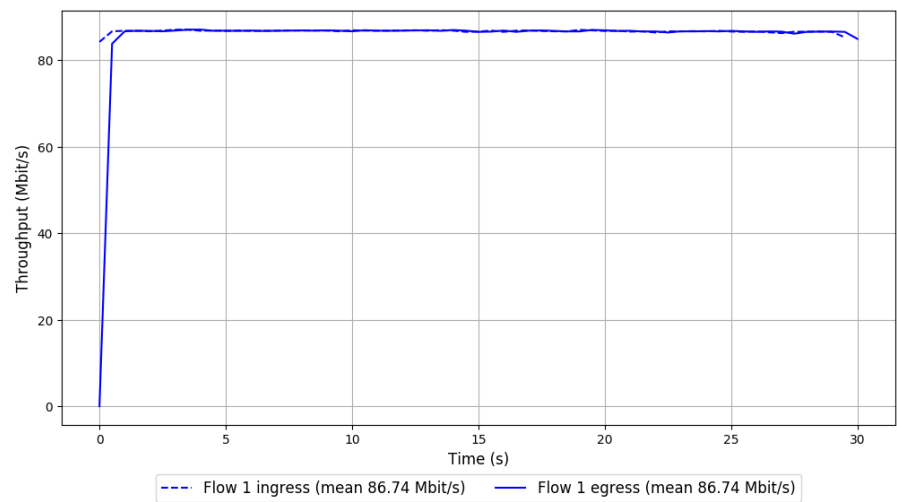
-- Flow 1:

Average throughput: 86.74 Mbit/s

95th percentile per-packet one-way delay: 2.472 ms

Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-01-25 11:59:31

End at: 2019-01-25 12:00:01

Local clock offset: -3.203 ms

Remote clock offset: 0.825 ms

# Below is generated by plot.py at 2019-01-25 12:53:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.97 Mbit/s

95th percentile per-packet one-way delay: 2.502 ms

Loss rate: 0.02%

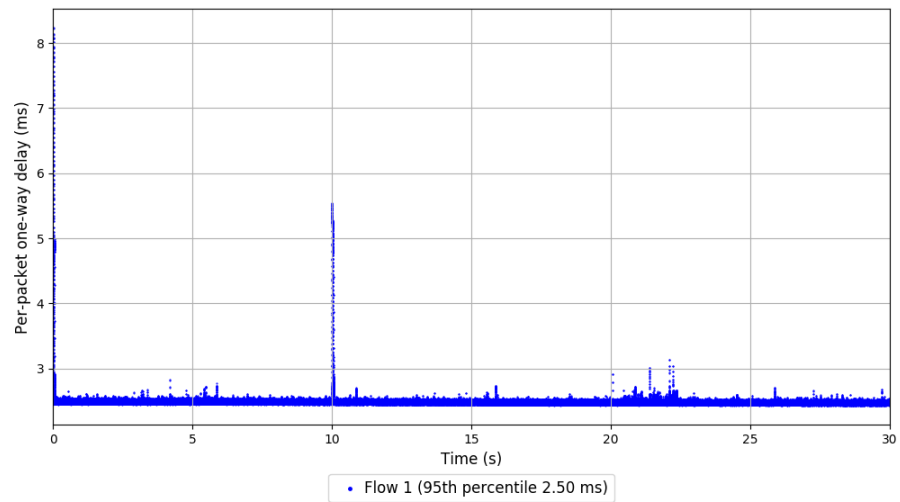
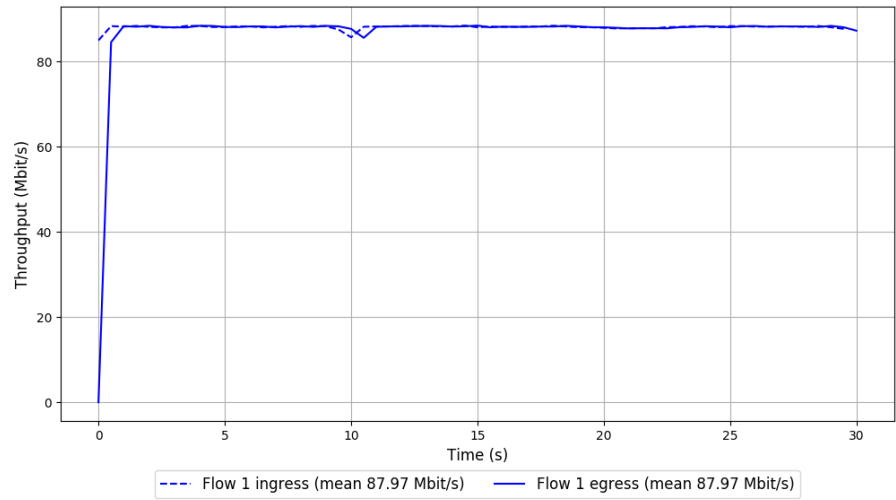
-- Flow 1:

Average throughput: 87.97 Mbit/s

95th percentile per-packet one-way delay: 2.502 ms

Loss rate: 0.02%

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





Run 5: Statistics of TaoVA-100x

Start at: 2019-01-25 12:23:11

End at: 2019-01-25 12:23:41

Local clock offset: -3.625 ms

Remote clock offset: 1.037 ms

# Below is generated by plot.py at 2019-01-25 12:54:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.95 Mbit/s

95th percentile per-packet one-way delay: 1.697 ms

Loss rate: 0.02%

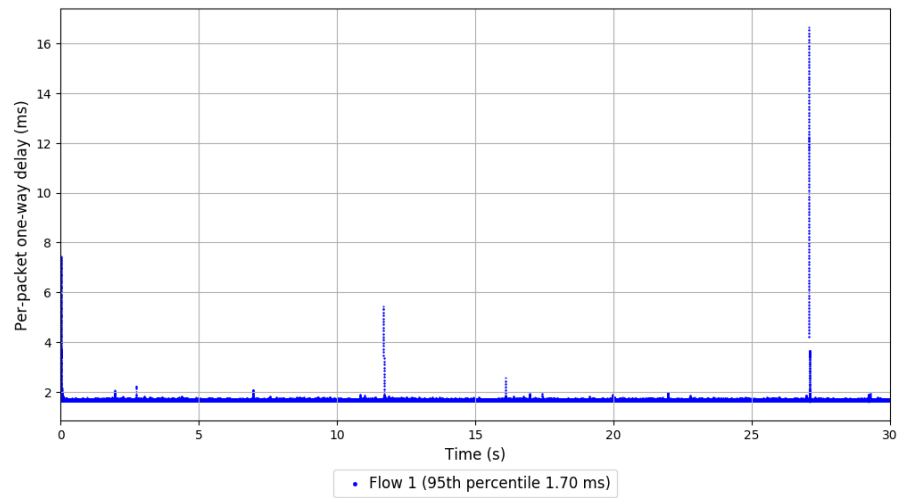
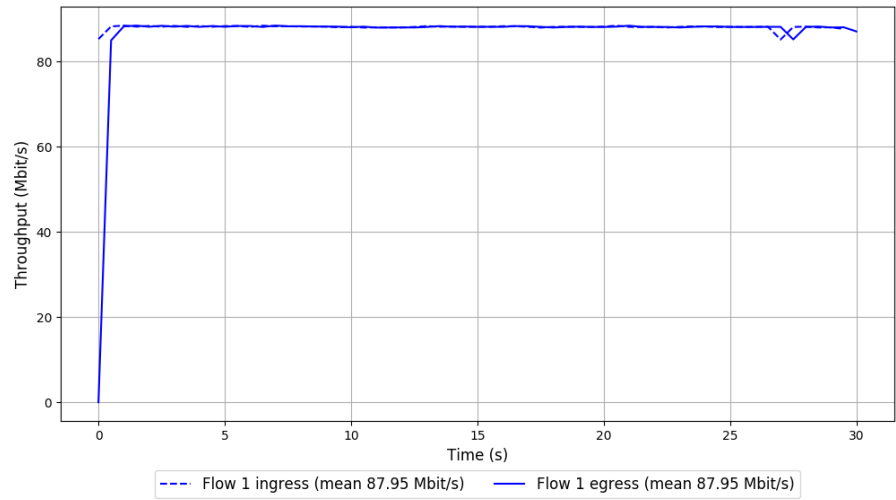
-- Flow 1:

Average throughput: 87.95 Mbit/s

95th percentile per-packet one-way delay: 1.697 ms

Loss rate: 0.02%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-01-25 10:54:05

End at: 2019-01-25 10:54:35

Local clock offset: 1.281 ms

Remote clock offset: 0.091 ms

# Below is generated by plot.py at 2019-01-25 12:54:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.35 Mbit/s

95th percentile per-packet one-way delay: 2.761 ms

Loss rate: 0.01%

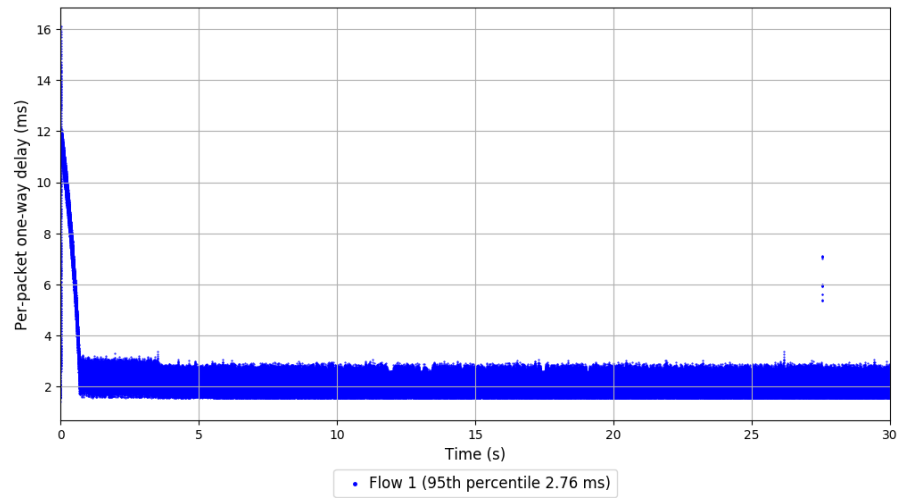
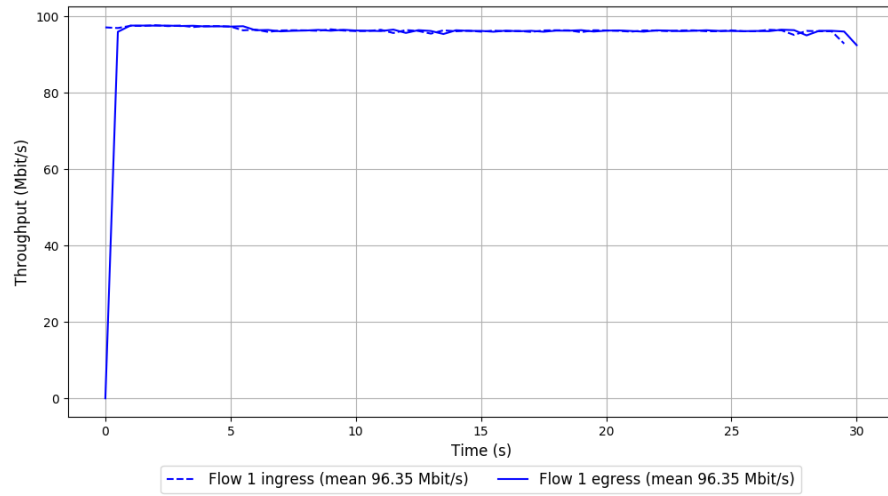
-- Flow 1:

Average throughput: 96.35 Mbit/s

95th percentile per-packet one-way delay: 2.761 ms

Loss rate: 0.01%

### Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-01-25 11:17:47

End at: 2019-01-25 11:18:17

Local clock offset: -2.716 ms

Remote clock offset: 0.466 ms

# Below is generated by plot.py at 2019-01-25 12:54:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.30 Mbit/s

95th percentile per-packet one-way delay: 3.576 ms

Loss rate: 0.01%

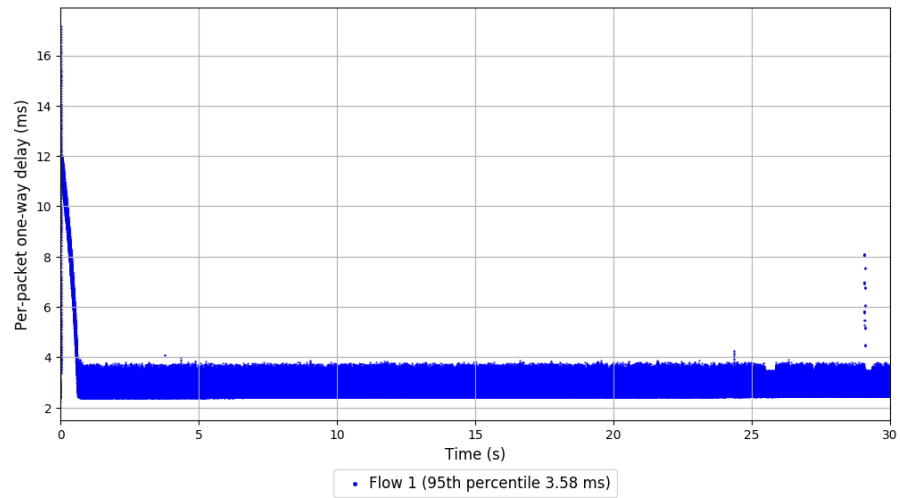
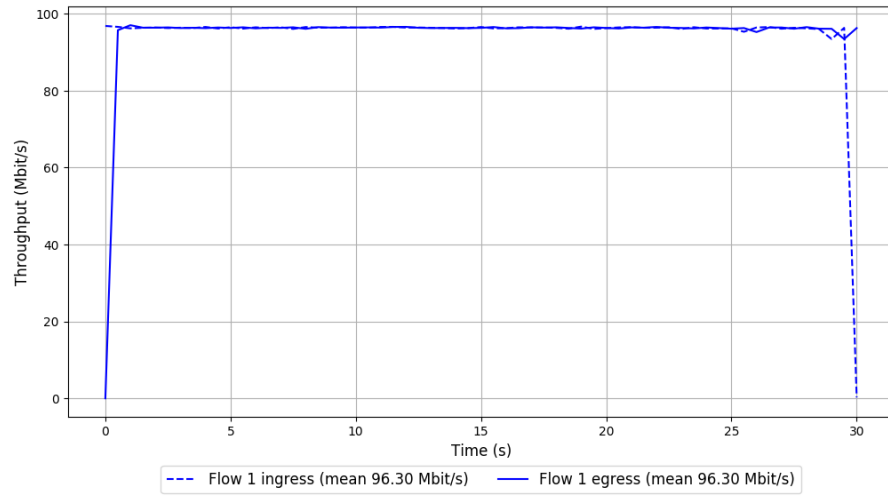
-- Flow 1:

Average throughput: 96.30 Mbit/s

95th percentile per-packet one-way delay: 3.576 ms

Loss rate: 0.01%

## Run 2: Report of TCP Vegas — Data Link

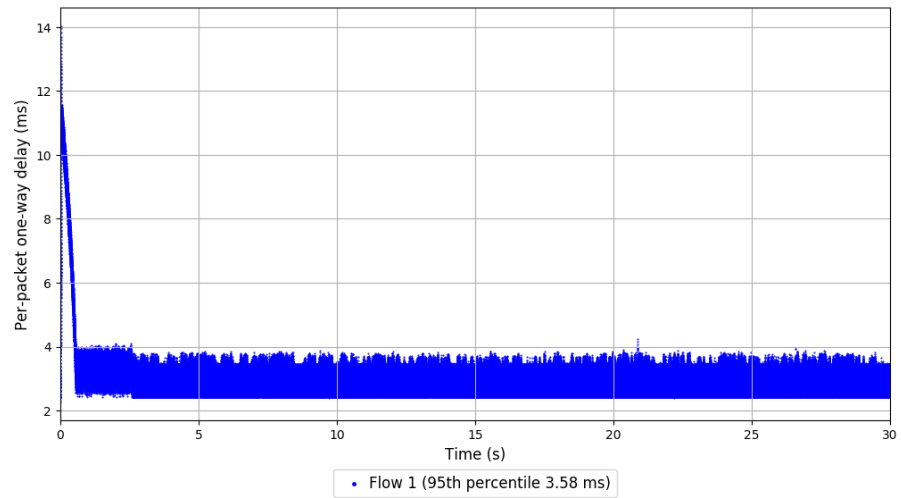
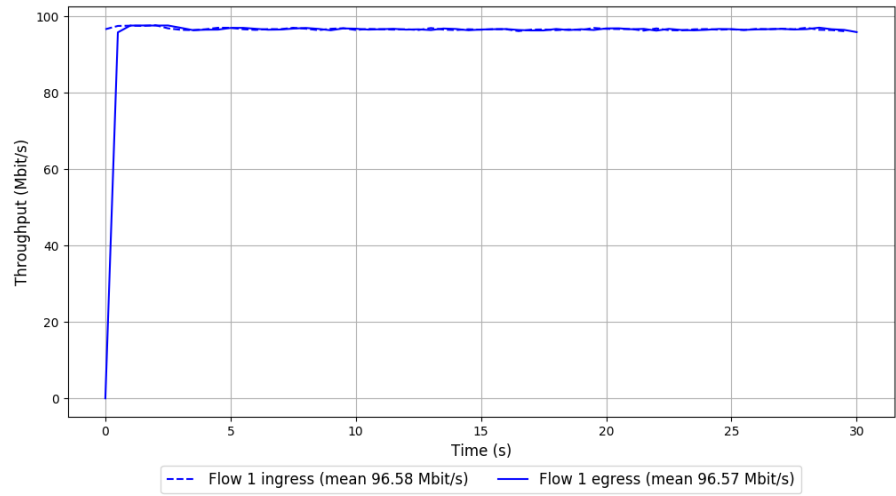


Run 3: Statistics of TCP Vegas

Start at: 2019-01-25 11:41:30  
End at: 2019-01-25 11:42:00  
Local clock offset: -3.072 ms  
Remote clock offset: 0.737 ms

# Below is generated by plot.py at 2019-01-25 12:54:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.57 Mbit/s  
95th percentile per-packet one-way delay: 3.584 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 96.57 Mbit/s  
95th percentile per-packet one-way delay: 3.584 ms  
Loss rate: 0.01%

### Run 3: Report of TCP Vegas — Data Link





Run 4: Statistics of TCP Vegas

Start at: 2019-01-25 12:05:10

End at: 2019-01-25 12:05:40

Local clock offset: -2.974 ms

Remote clock offset: 0.967 ms

# Below is generated by plot.py at 2019-01-25 12:54:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.33 Mbit/s

95th percentile per-packet one-way delay: 3.584 ms

Loss rate: 0.01%

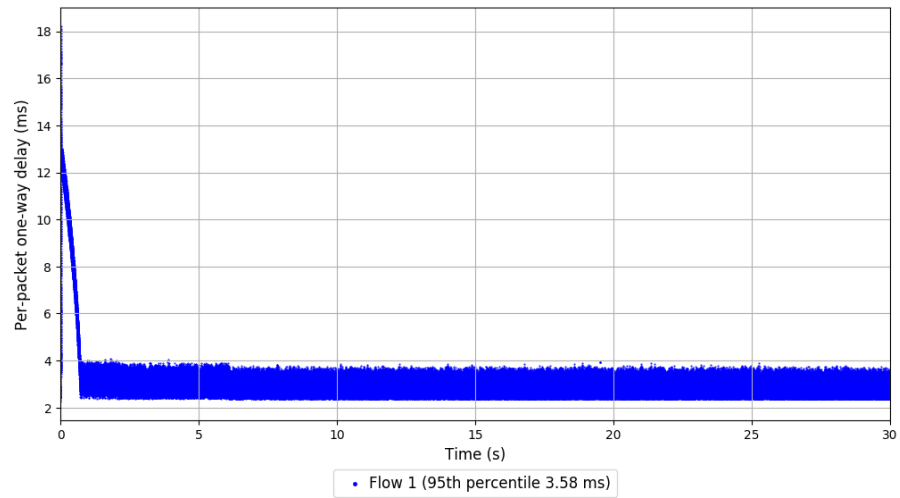
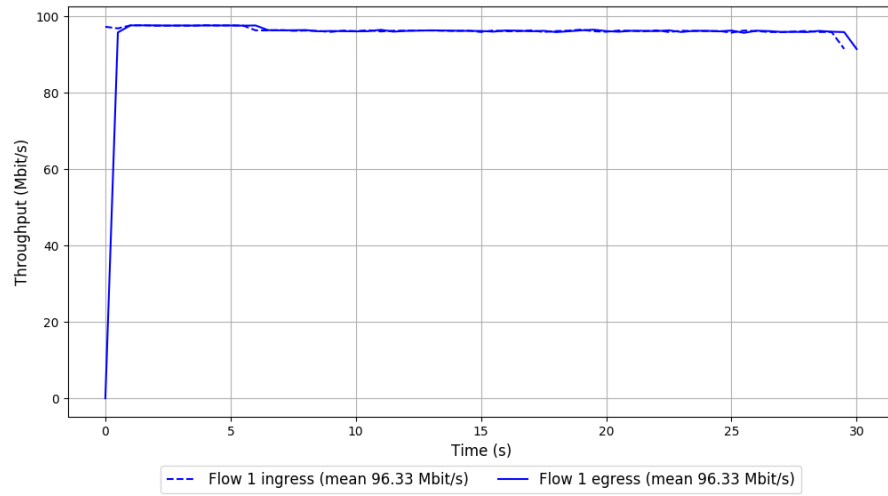
-- Flow 1:

Average throughput: 96.33 Mbit/s

95th percentile per-packet one-way delay: 3.584 ms

Loss rate: 0.01%

#### Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-01-25 12:28:54

End at: 2019-01-25 12:29:24

Local clock offset: -2.882 ms

Remote clock offset: 1.015 ms

# Below is generated by plot.py at 2019-01-25 12:54:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.18 Mbit/s

95th percentile per-packet one-way delay: 3.722 ms

Loss rate: 0.02%

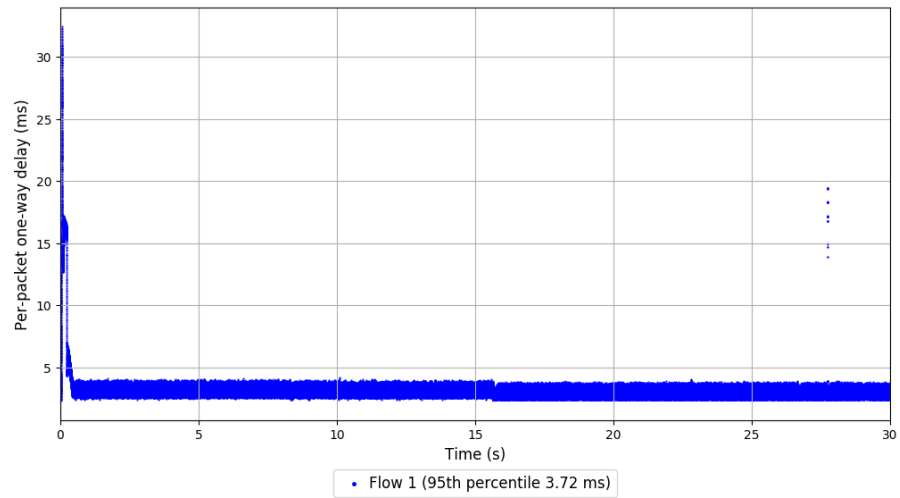
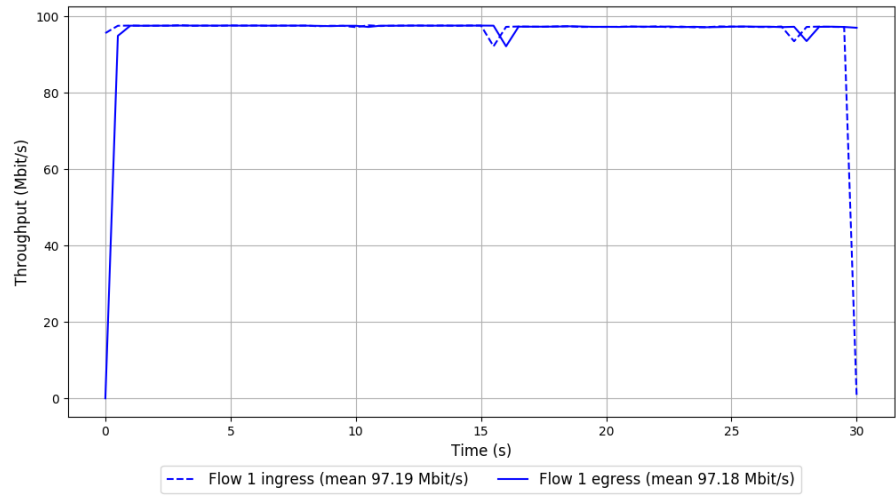
-- Flow 1:

Average throughput: 97.18 Mbit/s

95th percentile per-packet one-way delay: 3.722 ms

Loss rate: 0.02%

### Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-01-25 11:04:12

End at: 2019-01-25 11:04:42

Local clock offset: -0.007 ms

Remote clock offset: 0.223 ms

# Below is generated by plot.py at 2019-01-25 12:54:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 71.39 Mbit/s

95th percentile per-packet one-way delay: 9.720 ms

Loss rate: 0.05%

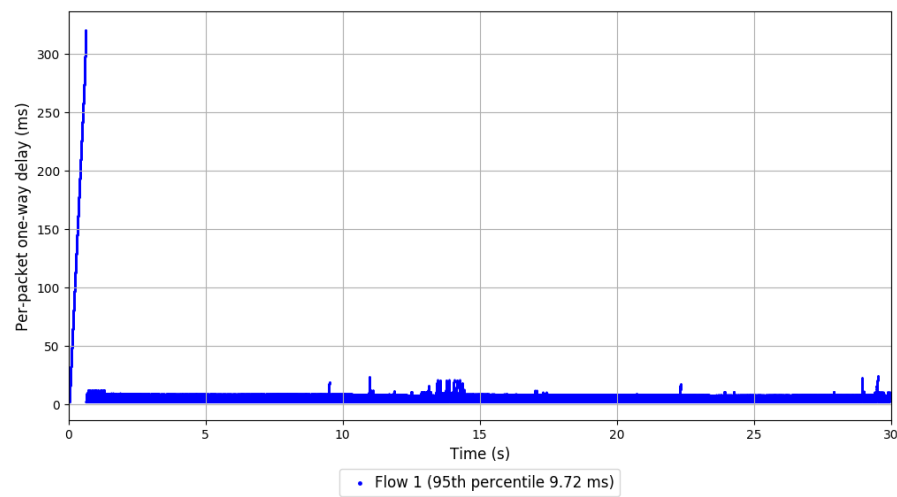
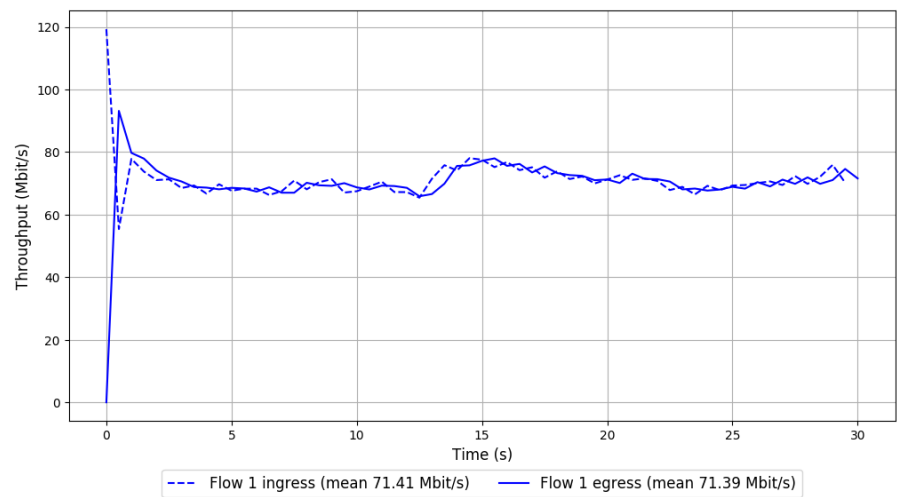
-- Flow 1:

Average throughput: 71.39 Mbit/s

95th percentile per-packet one-way delay: 9.720 ms

Loss rate: 0.05%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-01-25 11:27:54

End at: 2019-01-25 11:28:24

Local clock offset: -3.431 ms

Remote clock offset: 0.598 ms

# Below is generated by plot.py at 2019-01-25 12:54:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 46.43 Mbit/s

95th percentile per-packet one-way delay: 16.475 ms

Loss rate: 0.04%

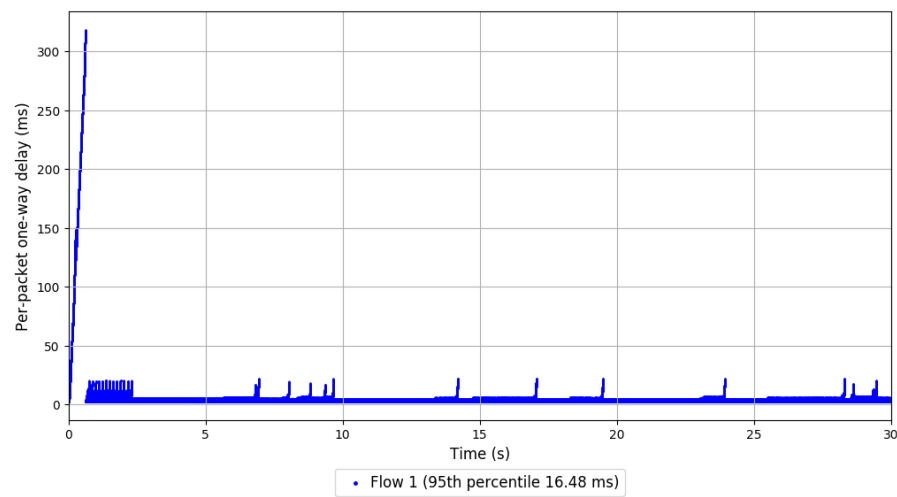
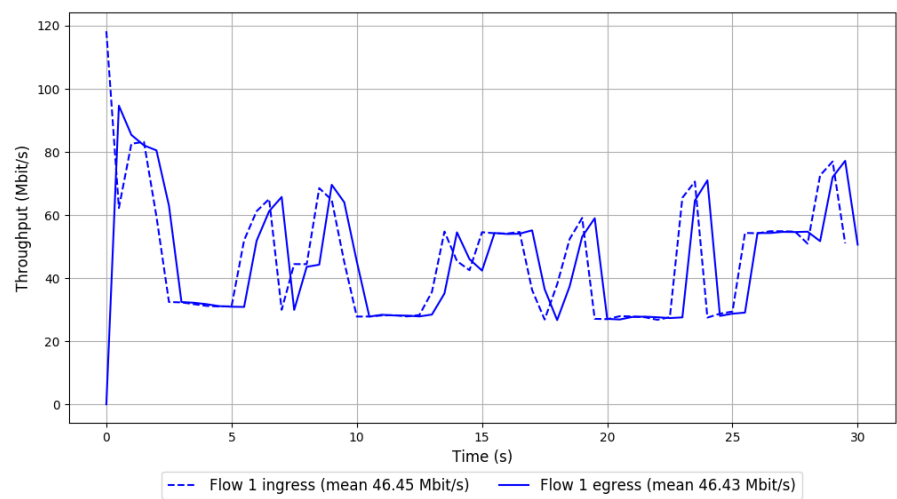
-- Flow 1:

Average throughput: 46.43 Mbit/s

95th percentile per-packet one-way delay: 16.475 ms

Loss rate: 0.04%

Run 2: Report of Verus — Data Link





Run 3: Statistics of Verus

Start at: 2019-01-25 11:51:36

End at: 2019-01-25 11:52:06

Local clock offset: -3.862 ms

Remote clock offset: 0.794 ms

# Below is generated by plot.py at 2019-01-25 12:54:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.26 Mbit/s

95th percentile per-packet one-way delay: 14.488 ms

Loss rate: 0.03%

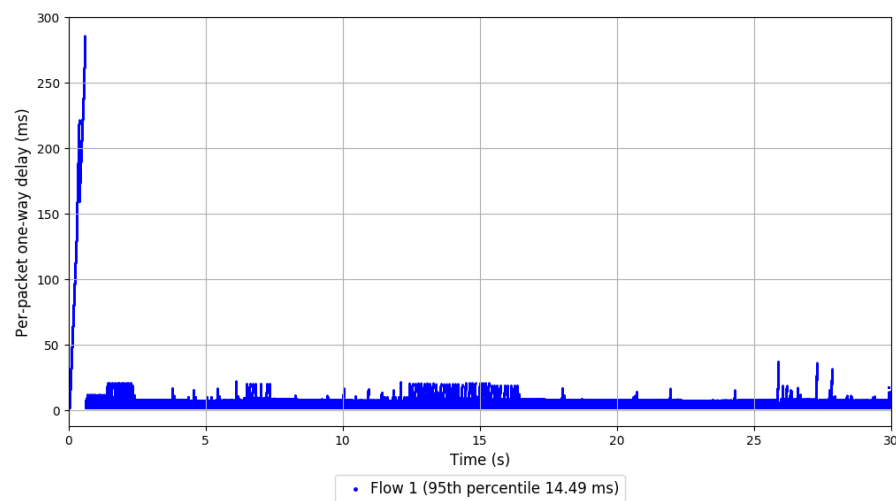
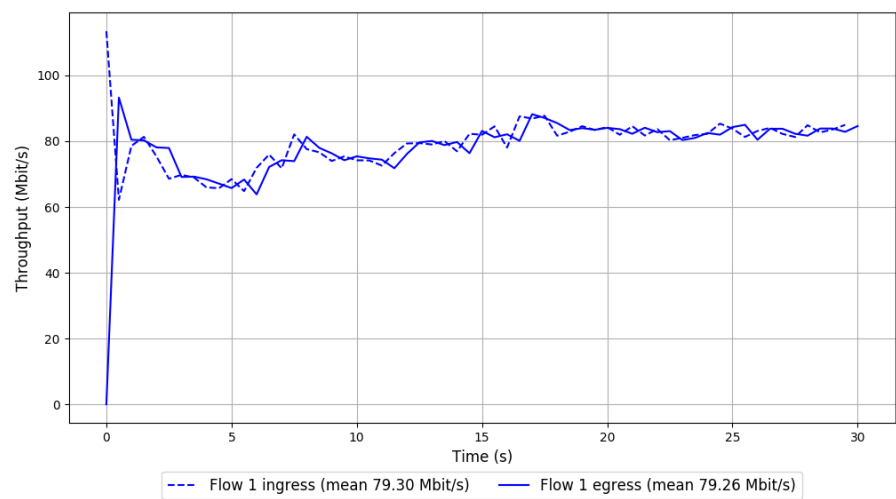
-- Flow 1:

Average throughput: 79.26 Mbit/s

95th percentile per-packet one-way delay: 14.488 ms

Loss rate: 0.03%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-01-25 12:15:17

End at: 2019-01-25 12:15:47

Local clock offset: -2.834 ms

Remote clock offset: 1.084 ms

# Below is generated by plot.py at 2019-01-25 12:54:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 77.27 Mbit/s

95th percentile per-packet one-way delay: 12.436 ms

Loss rate: 0.05%

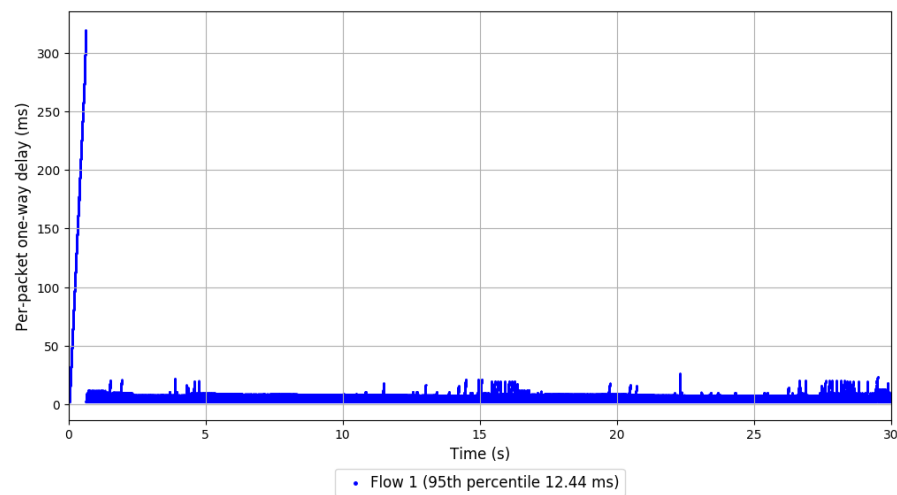
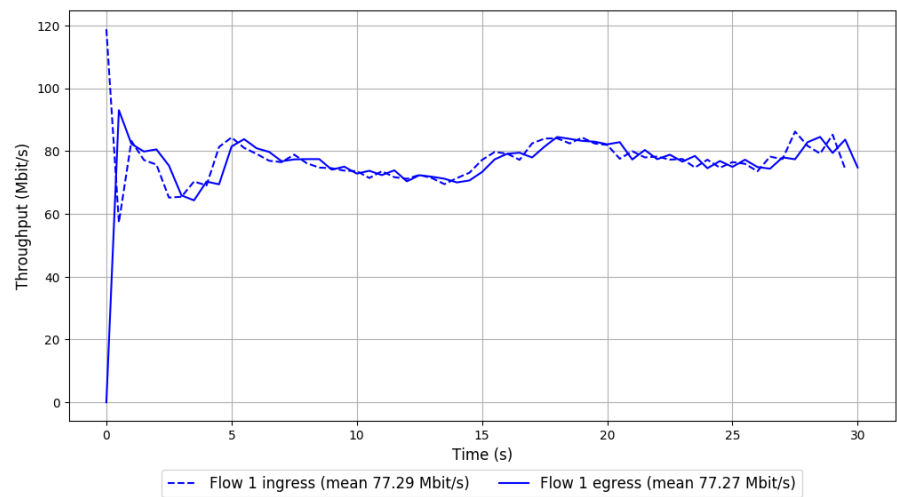
-- Flow 1:

Average throughput: 77.27 Mbit/s

95th percentile per-packet one-way delay: 12.436 ms

Loss rate: 0.05%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-01-25 12:39:02

End at: 2019-01-25 12:39:32

Local clock offset: -4.327 ms

Remote clock offset: 0.944 ms

# Below is generated by plot.py at 2019-01-25 12:54:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.60 Mbit/s

95th percentile per-packet one-way delay: 11.413 ms

Loss rate: 0.03%

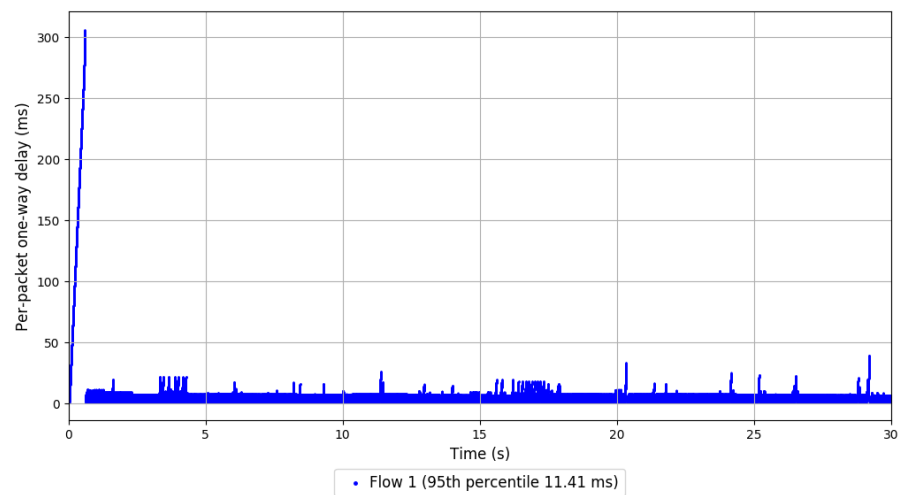
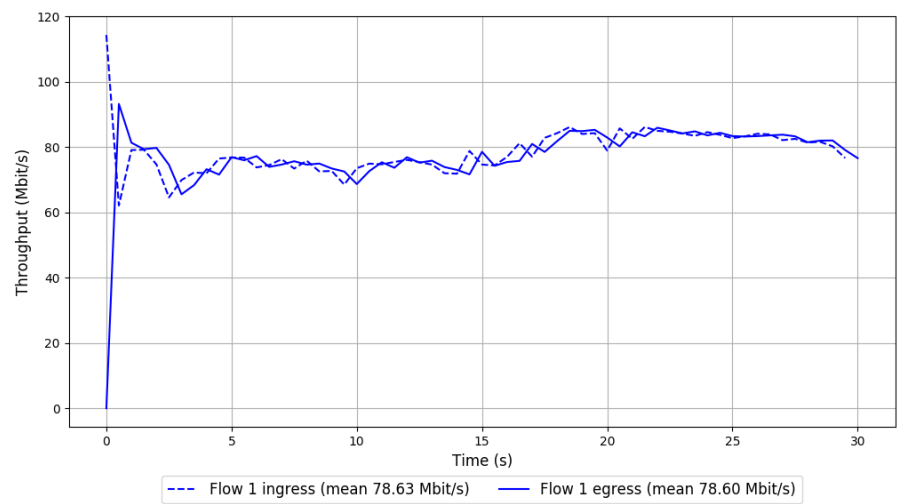
-- Flow 1:

Average throughput: 78.60 Mbit/s

95th percentile per-packet one-way delay: 11.413 ms

Loss rate: 0.03%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-01-25 10:53:00

End at: 2019-01-25 10:53:30

Local clock offset: 1.249 ms

Remote clock offset: 0.041 ms

# Below is generated by plot.py at 2019-01-25 12:54:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 18.29 Mbit/s

95th percentile per-packet one-way delay: 1.610 ms

Loss rate: 0.02%

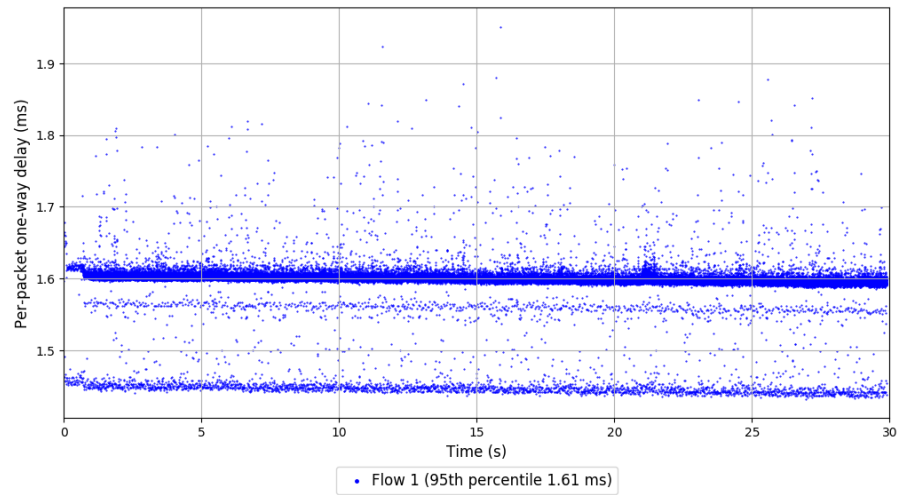
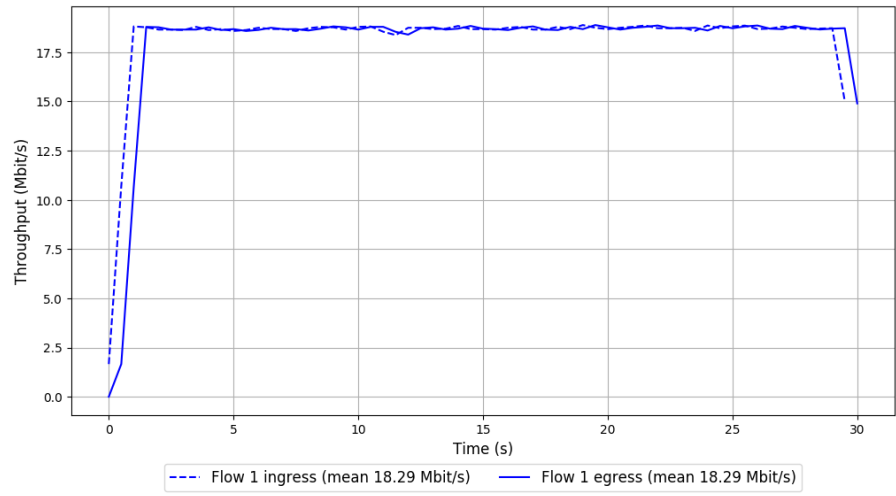
-- Flow 1:

Average throughput: 18.29 Mbit/s

95th percentile per-packet one-way delay: 1.610 ms

Loss rate: 0.02%

# Run 1: Report of PCC-Vivace — Data Link





Run 2: Statistics of PCC-Vivace

Start at: 2019-01-25 11:16:41

End at: 2019-01-25 11:17:11

Local clock offset: -2.582 ms

Remote clock offset: 0.329 ms

# Below is generated by plot.py at 2019-01-25 12:54:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 24.11 Mbit/s

95th percentile per-packet one-way delay: 2.576 ms

Loss rate: 0.01%

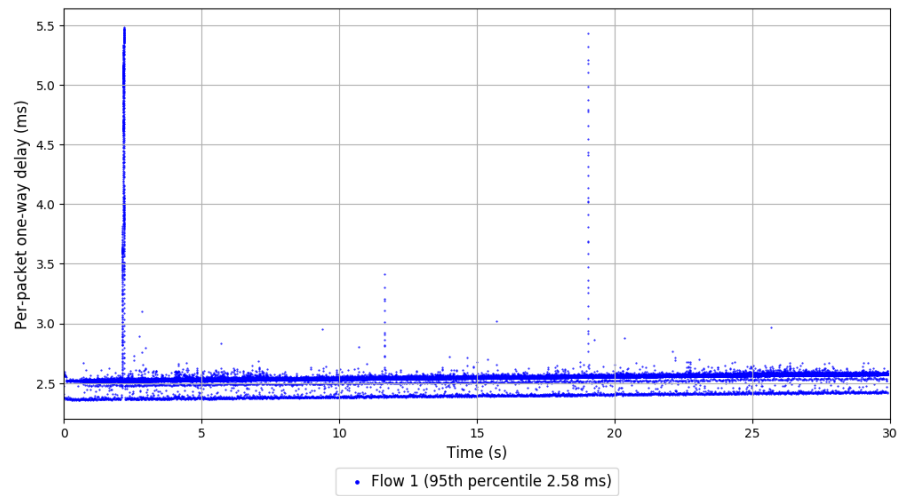
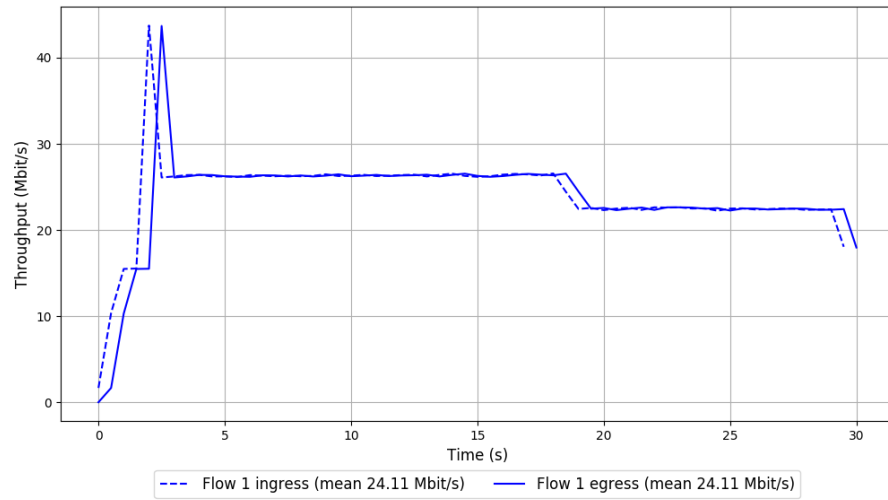
-- Flow 1:

Average throughput: 24.11 Mbit/s

95th percentile per-packet one-way delay: 2.576 ms

Loss rate: 0.01%

## Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-01-25 11:40:21

End at: 2019-01-25 11:40:51

Local clock offset: -3.846 ms

Remote clock offset: 0.709 ms

# Below is generated by plot.py at 2019-01-25 12:54:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.14 Mbit/s

95th percentile per-packet one-way delay: 1.746 ms

Loss rate: 0.02%

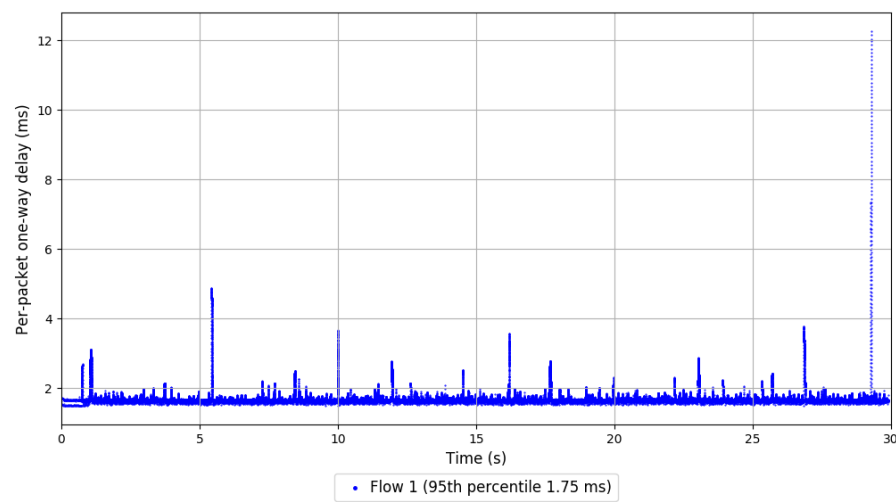
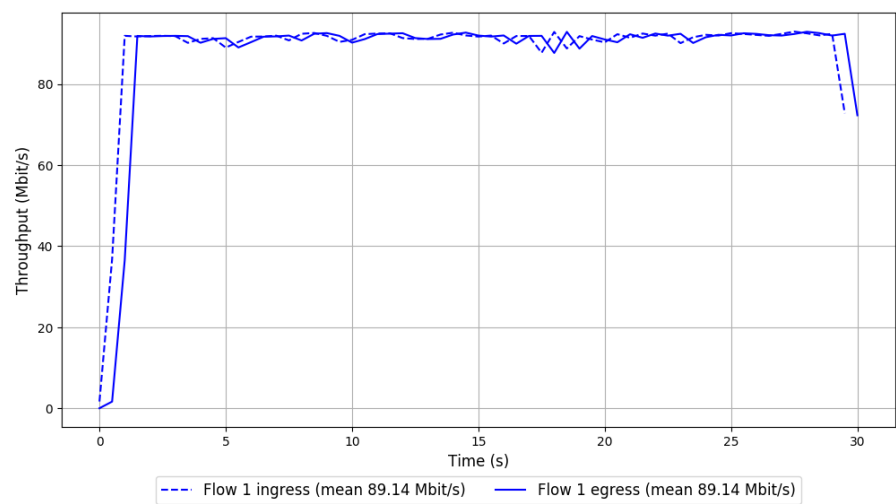
-- Flow 1:

Average throughput: 89.14 Mbit/s

95th percentile per-packet one-way delay: 1.746 ms

Loss rate: 0.02%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-01-25 12:04:05

End at: 2019-01-25 12:04:35

Local clock offset: -3.01 ms

Remote clock offset: 0.929 ms

# Below is generated by plot.py at 2019-01-25 12:54:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 18.21 Mbit/s

95th percentile per-packet one-way delay: 2.408 ms

Loss rate: 0.01%

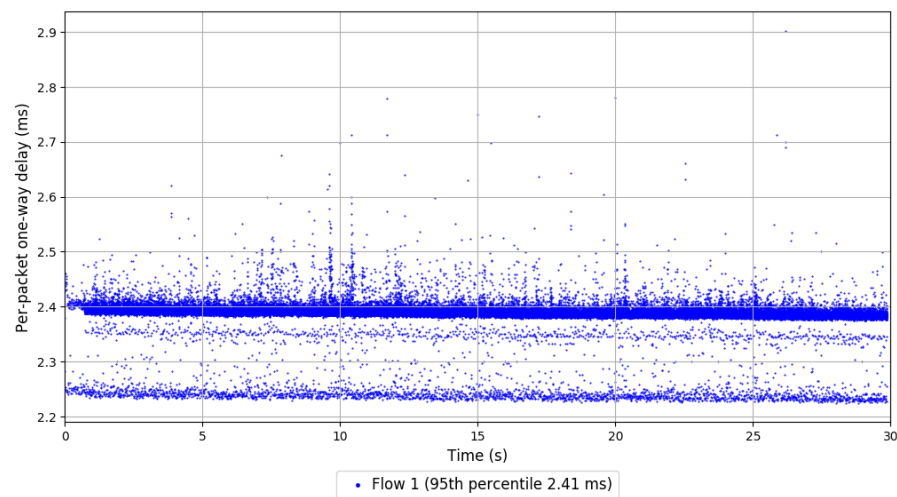
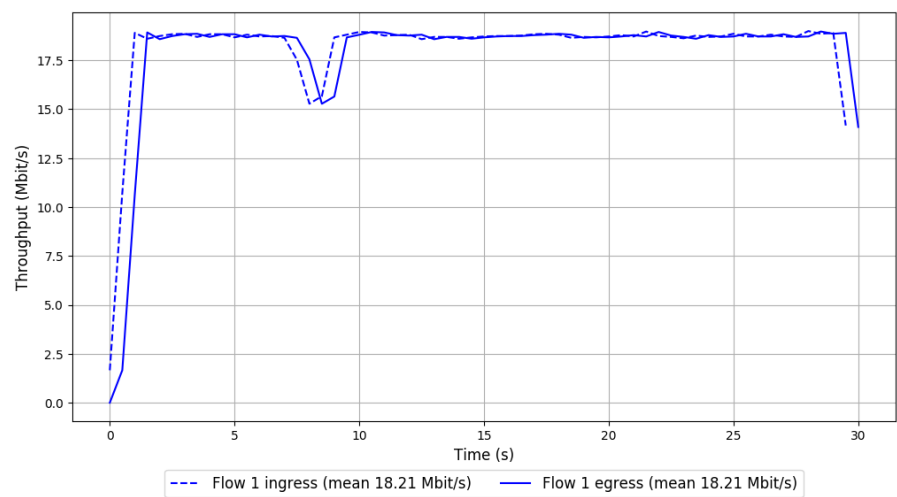
-- Flow 1:

Average throughput: 18.21 Mbit/s

95th percentile per-packet one-way delay: 2.408 ms

Loss rate: 0.01%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-01-25 12:27:45

End at: 2019-01-25 12:28:15

Local clock offset: -2.888 ms

Remote clock offset: 1.055 ms

# Below is generated by plot.py at 2019-01-25 12:54:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.26 Mbit/s

95th percentile per-packet one-way delay: 2.432 ms

Loss rate: 0.02%

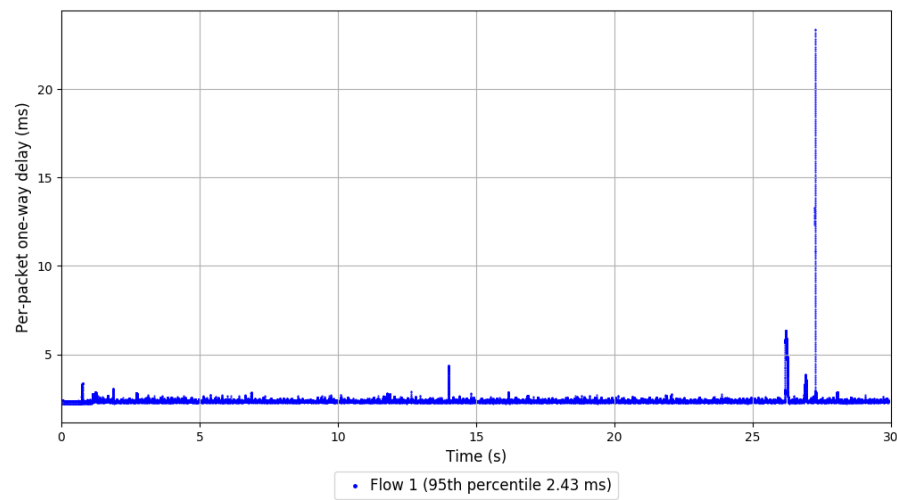
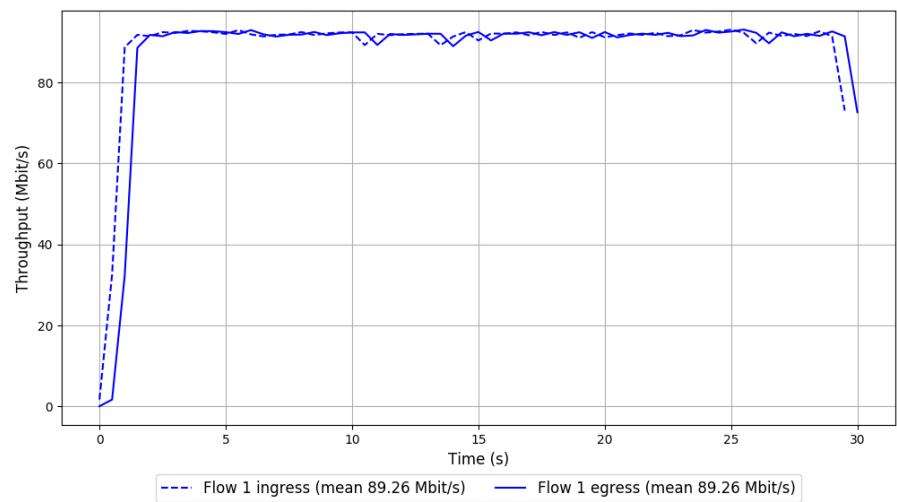
-- Flow 1:

Average throughput: 89.26 Mbit/s

95th percentile per-packet one-way delay: 2.432 ms

Loss rate: 0.02%

Run 5: Report of PCC-Vivace — Data Link



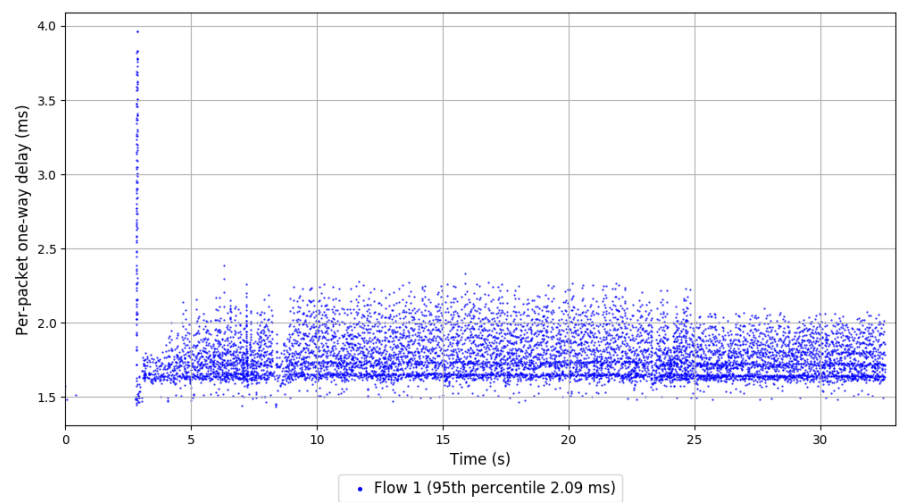
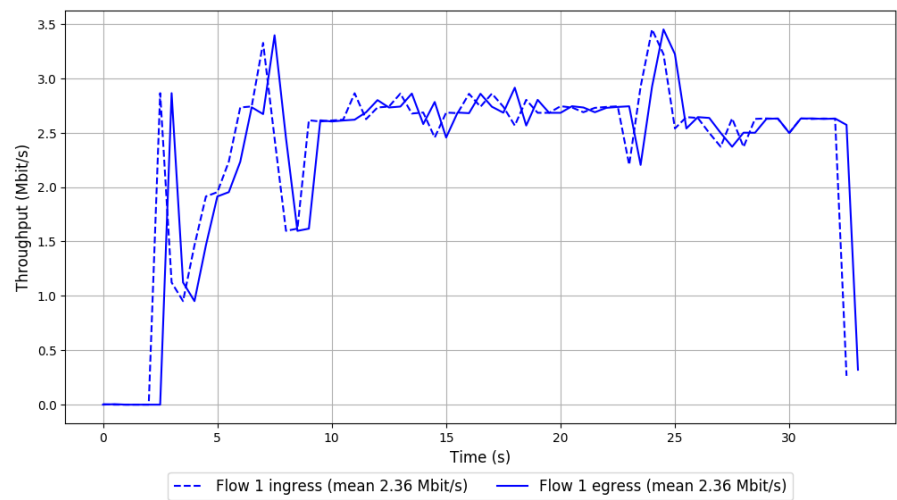


Run 1: Statistics of WebRTC media

Start at: 2019-01-25 10:43:53  
End at: 2019-01-25 10:44:23  
Local clock offset: 0.981 ms  
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-01-25 12:54:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.36 Mbit/s  
95th percentile per-packet one-way delay: 2.086 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.36 Mbit/s  
95th percentile per-packet one-way delay: 2.086 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-01-25 11:07:35

End at: 2019-01-25 11:08:05

Local clock offset: -1.772 ms

Remote clock offset: 0.175 ms

# Below is generated by plot.py at 2019-01-25 12:54:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 2.302 ms

Loss rate: 0.00%

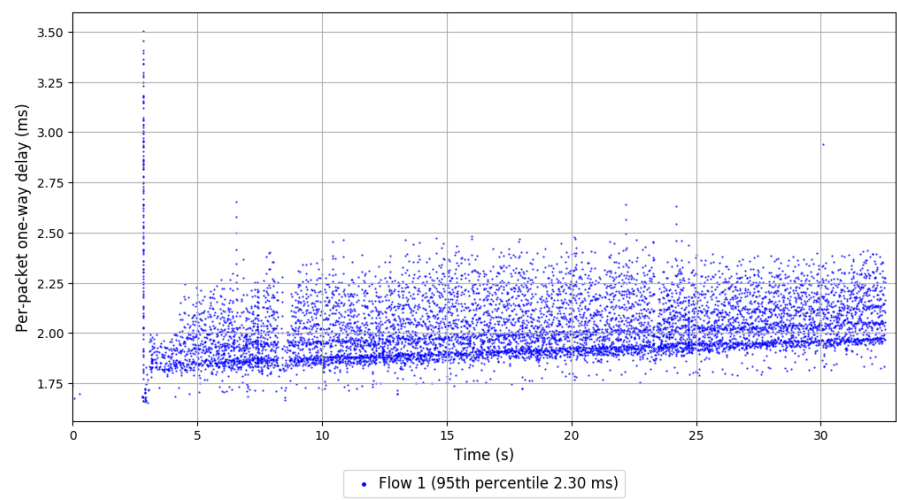
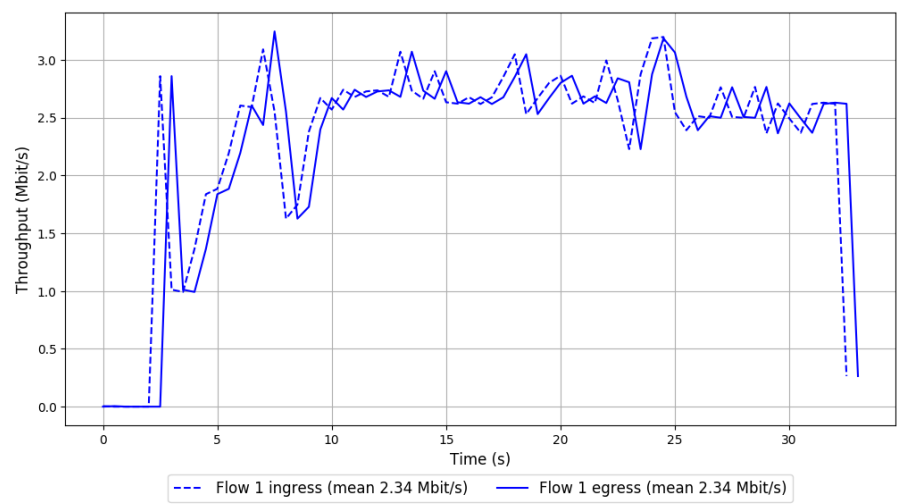
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 2.302 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-01-25 11:31:15

End at: 2019-01-25 11:31:45

Local clock offset: -4.218 ms

Remote clock offset: 0.643 ms

# Below is generated by plot.py at 2019-01-25 12:54:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 1.991 ms

Loss rate: 0.00%

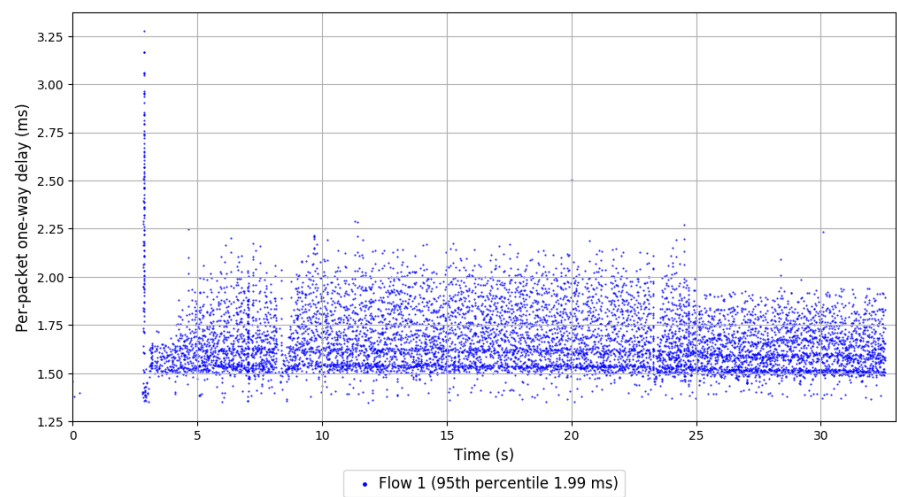
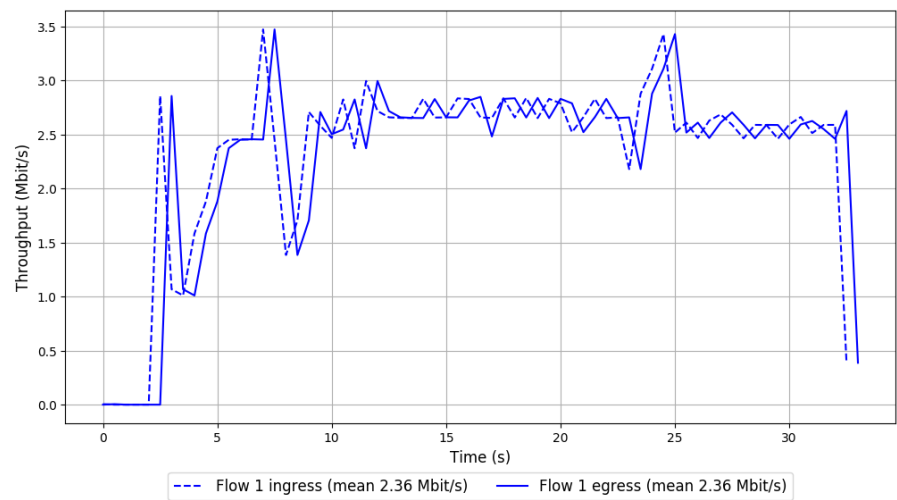
-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 1.991 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-01-25 11:54:59

End at: 2019-01-25 11:55:29

Local clock offset: -3.964 ms

Remote clock offset: 0.926 ms

# Below is generated by plot.py at 2019-01-25 12:54:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 2.001 ms

Loss rate: 0.00%

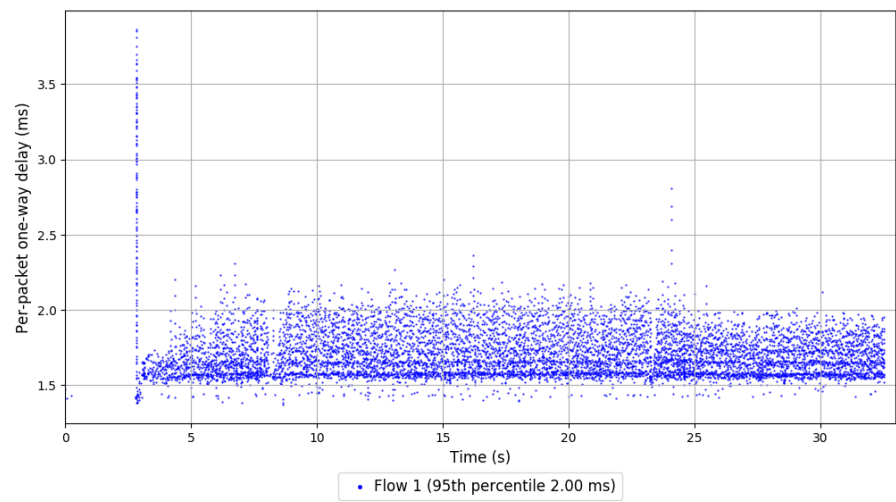
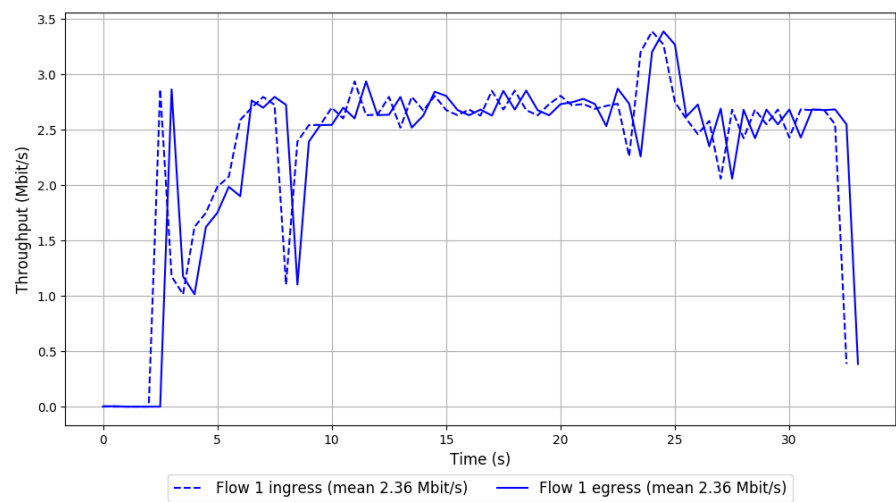
-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 2.001 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link





Run 5: Statistics of WebRTC media

Start at: 2019-01-25 12:18:40

End at: 2019-01-25 12:19:10

Local clock offset: -2.846 ms

Remote clock offset: 1.016 ms

# Below is generated by plot.py at 2019-01-25 12:54:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 2.927 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 2.927 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

