

## Pantheon Report

Generated at 2019-03-19 10:54:14 (UTC).

Data path: India on em1 (*remote*) → AWS India 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 `nets.org.sg` and have been applied to correct the timestamps in logs.

### System info:

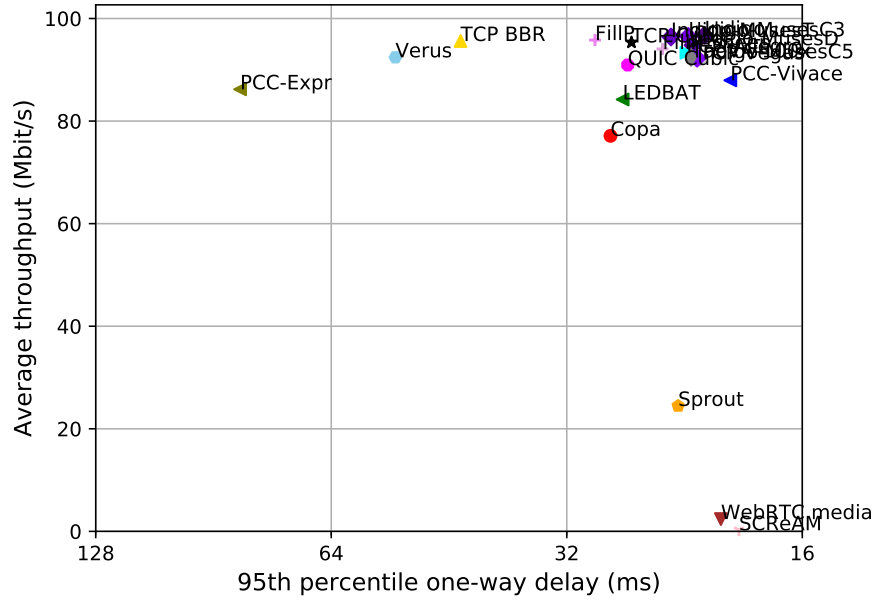
```
Linux 4.15.0-1033-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

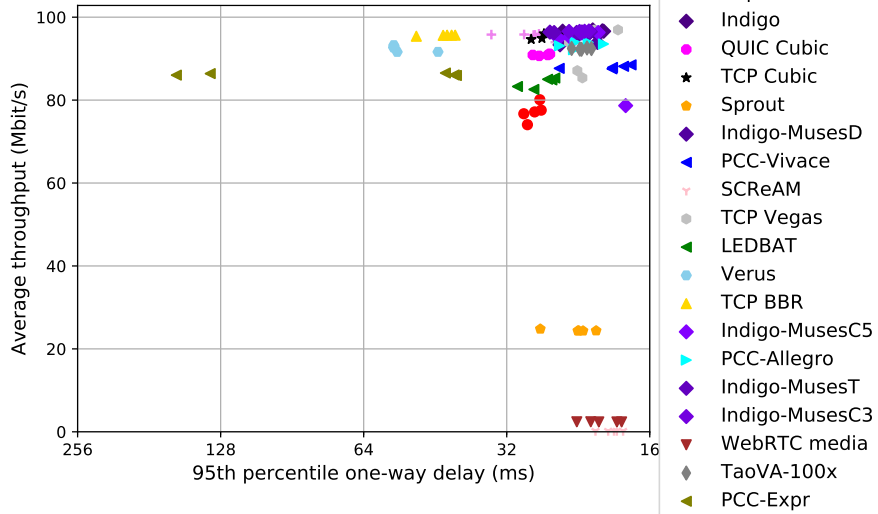
```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

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



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



scheme	# runs	mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate (%)
		flow 1	flow 1	flow 1
TCP BBR	5	95.61	43.74	1.13
Copa	5	77.12	28.14	0.11
TCP Cubic	5	95.33	26.45	0.10
FillP	5	95.80	29.45	0.10
FillP-Sheep	5	94.05	24.14	0.09
Indigo	5	96.73	21.34	0.09
Indigo-MusesC3	5	96.52	22.38	0.10
Indigo-MusesC5	5	92.25	21.81	0.10
Indigo-MusesD	5	94.80	22.07	0.09
Indigo-MusesT	5	96.39	23.55	0.10
LEDBAT	5	84.22	27.15	0.11
PCC-Allegro	5	93.33	22.50	0.09
PCC-Expr	5	86.19	83.70	0.17
QUIC Cubic	5	90.94	26.75	0.12
SReAM	5	0.21	19.28	0.10
Sprout	5	24.46	23.06	0.07
TaoVA-100x	5	92.40	22.20	0.10
TCP Vegas	5	92.03	21.64	0.12
Verus	5	92.43	52.99	0.31
PCC-Vivace	5	87.94	19.78	0.09
WebRTC media	5	2.39	20.33	0.09

Run 1: Statistics of TCP BBR

Start at: 2019-03-19 08:51:33

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

Local clock offset: 1.941 ms

Remote clock offset: -4.075 ms

# Below is generated by plot.py at 2019-03-19 10:40:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.41 Mbit/s

95th percentile per-packet one-way delay: 49.586 ms

Loss rate: 1.37%

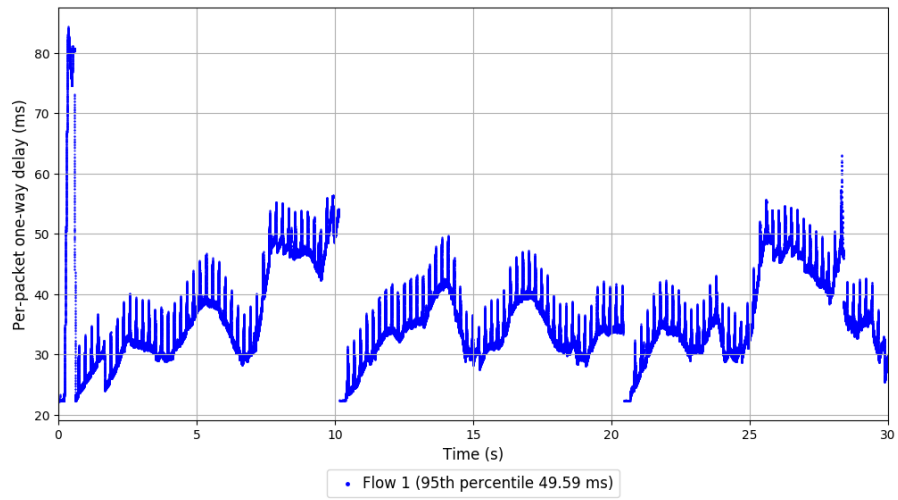
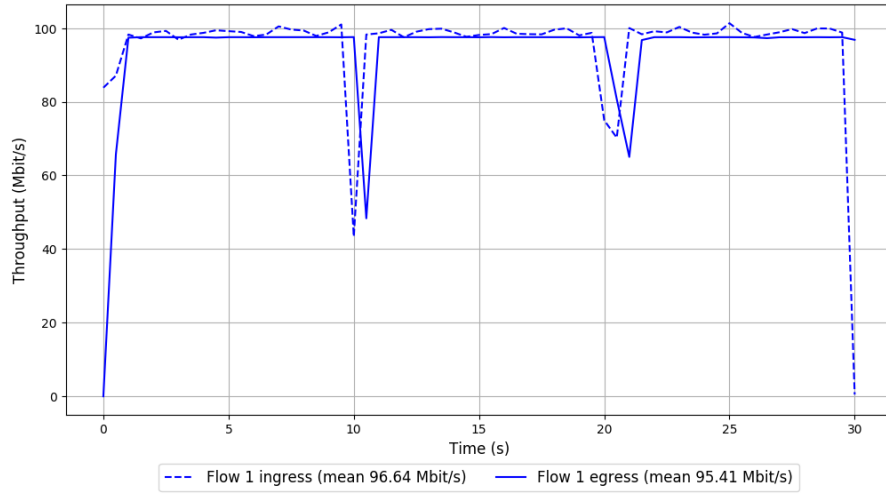
-- Flow 1:

Average throughput: 95.41 Mbit/s

95th percentile per-packet one-way delay: 49.586 ms

Loss rate: 1.37%

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



Run 2: Statistics of TCP BBR

Start at: 2019-03-19 09:16:11

End at: 2019-03-19 09:16:41

Local clock offset: 4.295 ms

Remote clock offset: -5.518 ms

# Below is generated by plot.py at 2019-03-19 10:40:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.67 Mbit/s

95th percentile per-packet one-way delay: 42.712 ms

Loss rate: 1.15%

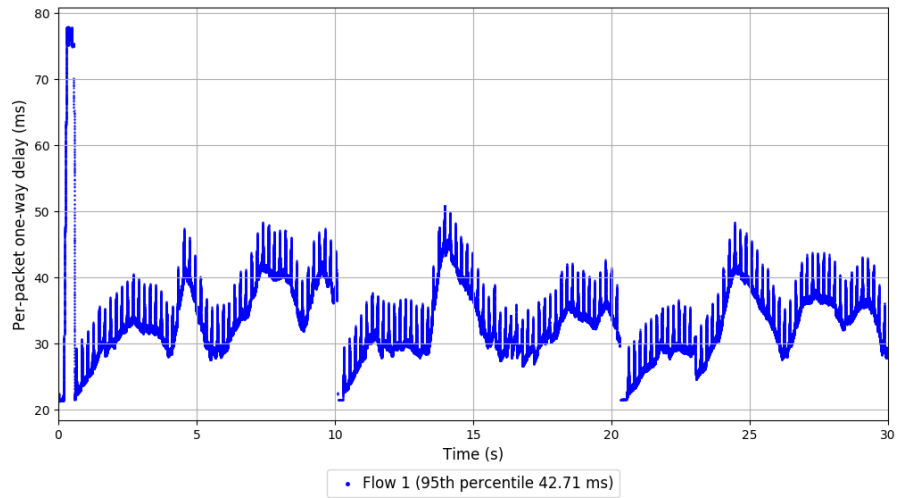
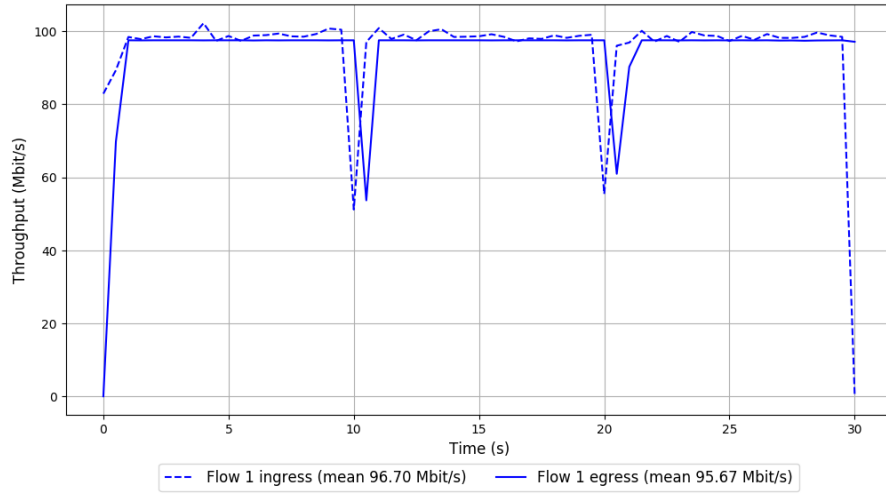
-- Flow 1:

Average throughput: 95.67 Mbit/s

95th percentile per-packet one-way delay: 42.712 ms

Loss rate: 1.15%

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



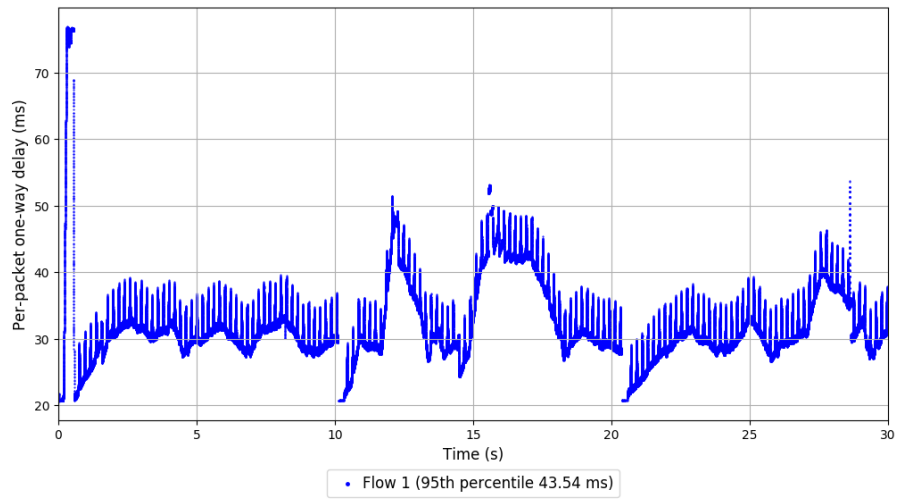
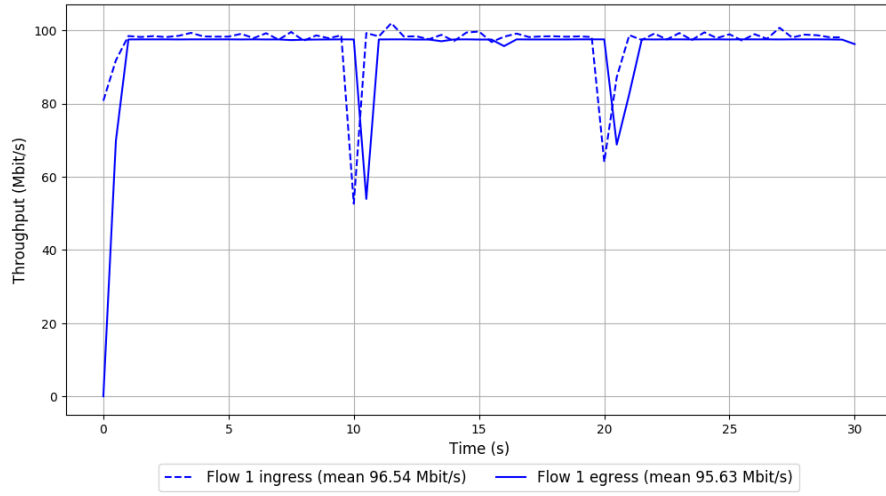


Run 3: Statistics of TCP BBR

Start at: 2019-03-19 09:40:29  
End at: 2019-03-19 09:40:59  
Local clock offset: -1.547 ms  
Remote clock offset: -8.424 ms

# Below is generated by plot.py at 2019-03-19 10:40:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.63 Mbit/s  
95th percentile per-packet one-way delay: 43.537 ms  
Loss rate: 1.03%  
-- Flow 1:  
Average throughput: 95.63 Mbit/s  
95th percentile per-packet one-way delay: 43.537 ms  
Loss rate: 1.03%

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



Run 4: Statistics of TCP BBR

Start at: 2019-03-19 10:04:44

End at: 2019-03-19 10:05:14

Local clock offset: 1.456 ms

Remote clock offset: -3.311 ms

# Below is generated by plot.py at 2019-03-19 10:40:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.67 Mbit/s

95th percentile per-packet one-way delay: 41.800 ms

Loss rate: 1.13%

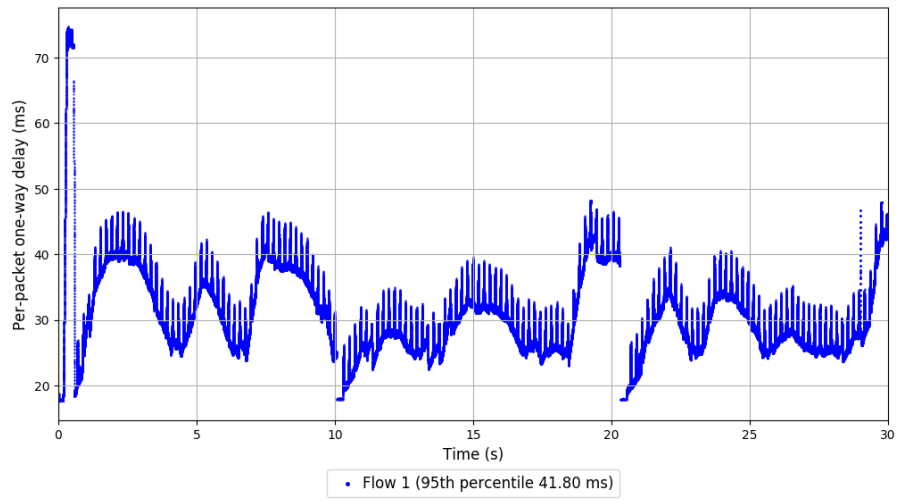
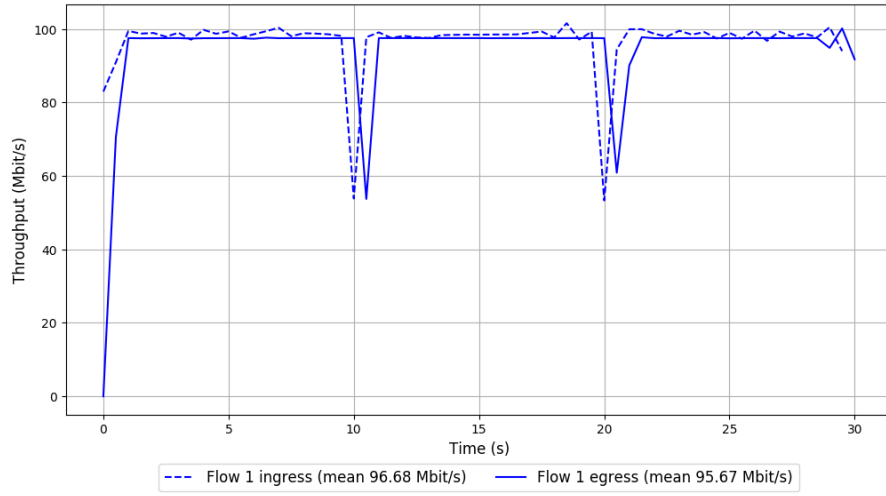
-- Flow 1:

Average throughput: 95.67 Mbit/s

95th percentile per-packet one-way delay: 41.800 ms

Loss rate: 1.13%

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



Run 5: Statistics of TCP BBR

Start at: 2019-03-19 10:28:46

End at: 2019-03-19 10:29:16

Local clock offset: 0.481 ms

Remote clock offset: -4.806 ms

# Below is generated by plot.py at 2019-03-19 10:40:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.67 Mbit/s

95th percentile per-packet one-way delay: 41.075 ms

Loss rate: 0.96%

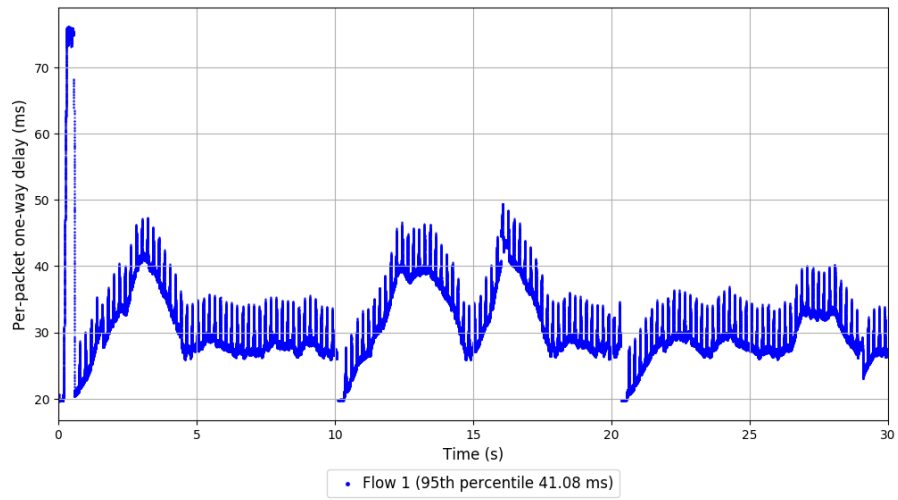
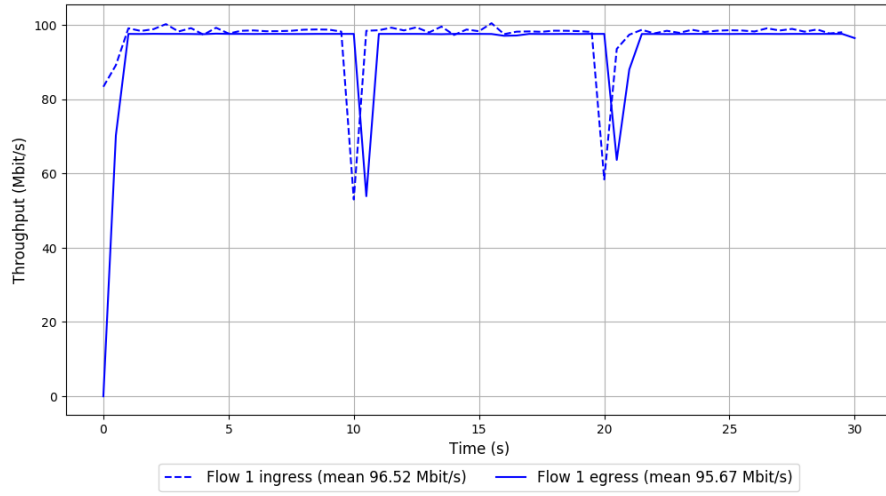
-- Flow 1:

Average throughput: 95.67 Mbit/s

95th percentile per-packet one-way delay: 41.075 ms

Loss rate: 0.96%

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

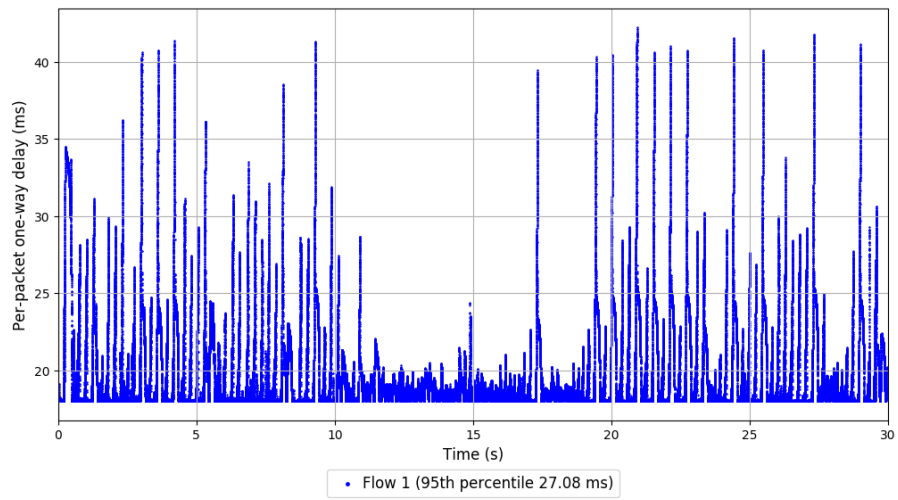
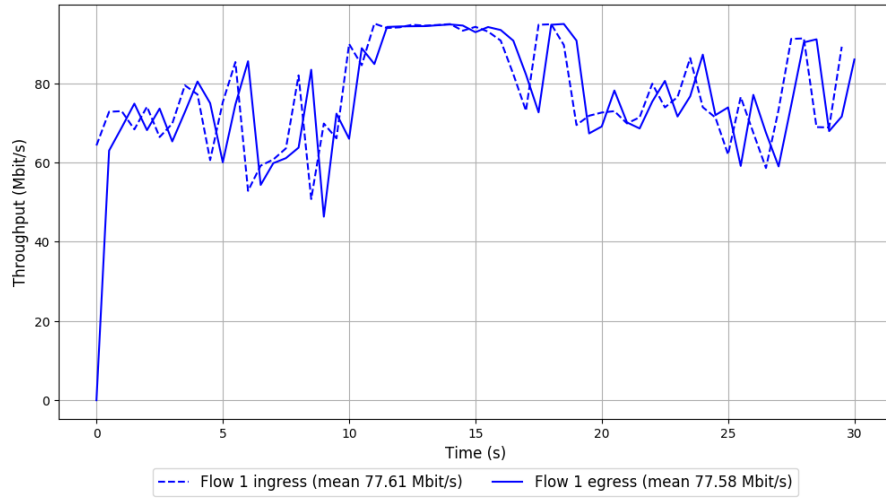


Run 1: Statistics of Copa

Start at: 2019-03-19 08:43:09  
End at: 2019-03-19 08:43:39  
Local clock offset: 0.542 ms  
Remote clock offset: -3.462 ms

# Below is generated by plot.py at 2019-03-19 10:41:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 77.58 Mbit/s  
95th percentile per-packet one-way delay: 27.077 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 77.58 Mbit/s  
95th percentile per-packet one-way delay: 27.077 ms  
Loss rate: 0.13%

Run 1: Report of Copa — Data Link



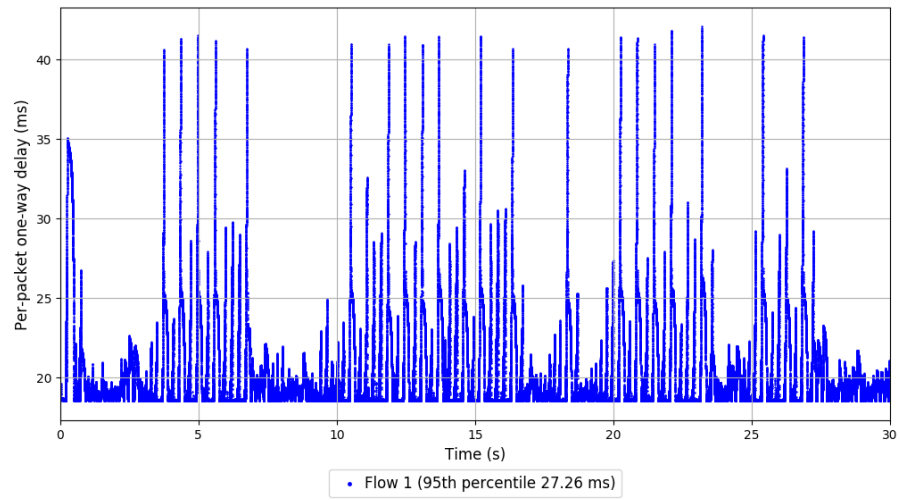
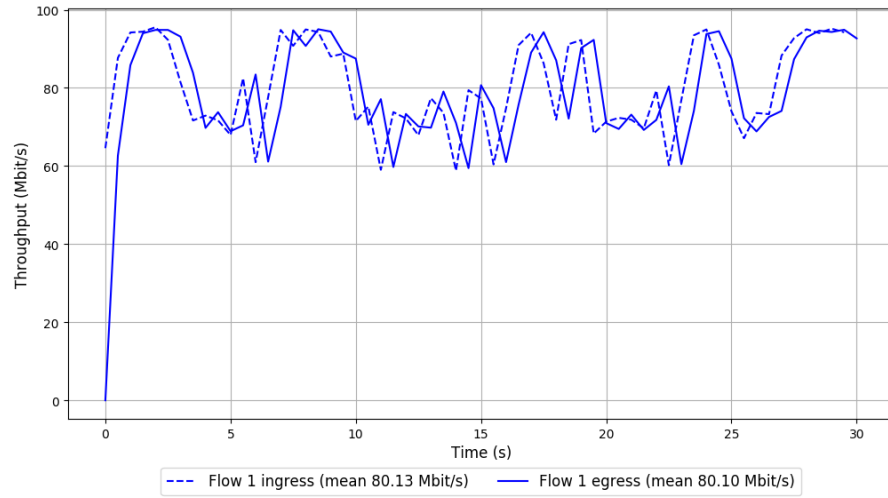


Run 2: Statistics of Copa

Start at: 2019-03-19 09:08:09  
End at: 2019-03-19 09:08:39  
Local clock offset: 2.592 ms  
Remote clock offset: -4.298 ms

# Below is generated by plot.py at 2019-03-19 10:41:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.10 Mbit/s  
95th percentile per-packet one-way delay: 27.258 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 80.10 Mbit/s  
95th percentile per-packet one-way delay: 27.258 ms  
Loss rate: 0.13%

## Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-03-19 09:32:29

End at: 2019-03-19 09:32:59

Local clock offset: 1.258 ms

Remote clock offset: -3.127 ms

# Below is generated by plot.py at 2019-03-19 10:41:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.71 Mbit/s

95th percentile per-packet one-way delay: 29.459 ms

Loss rate: 0.09%

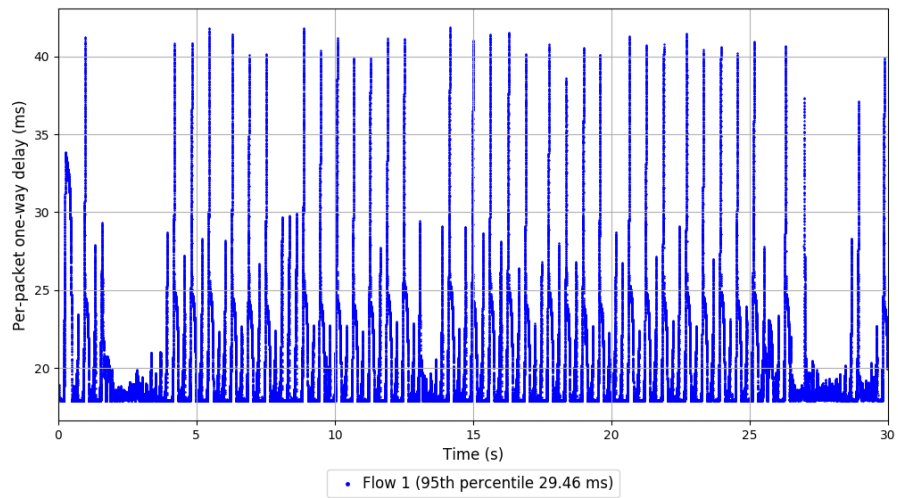
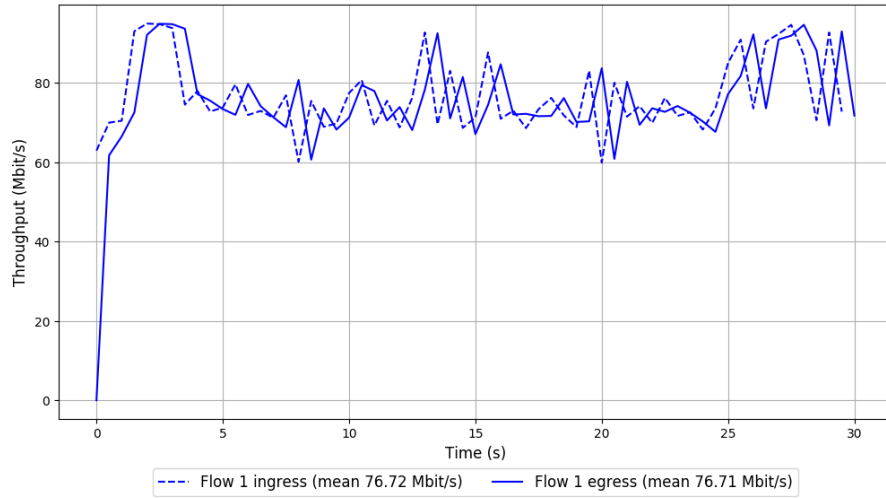
-- Flow 1:

Average throughput: 76.71 Mbit/s

95th percentile per-packet one-way delay: 29.459 ms

Loss rate: 0.09%

### Run 3: Report of Copa — Data Link

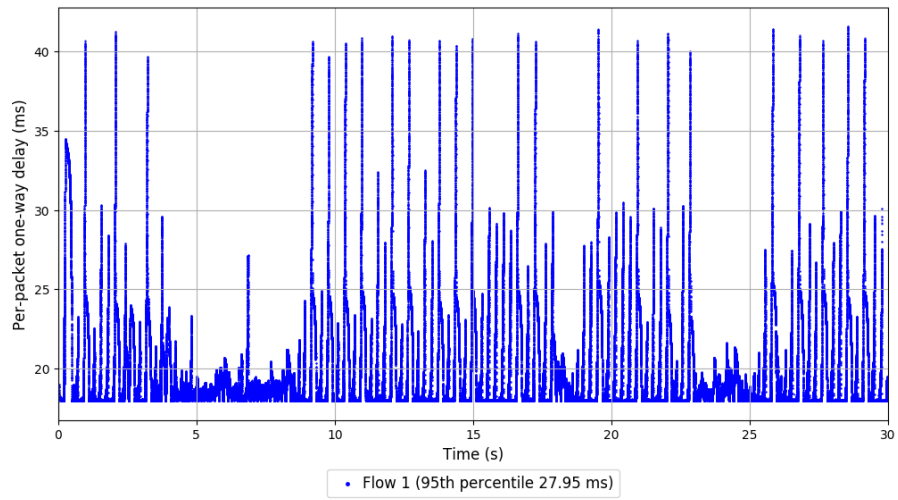
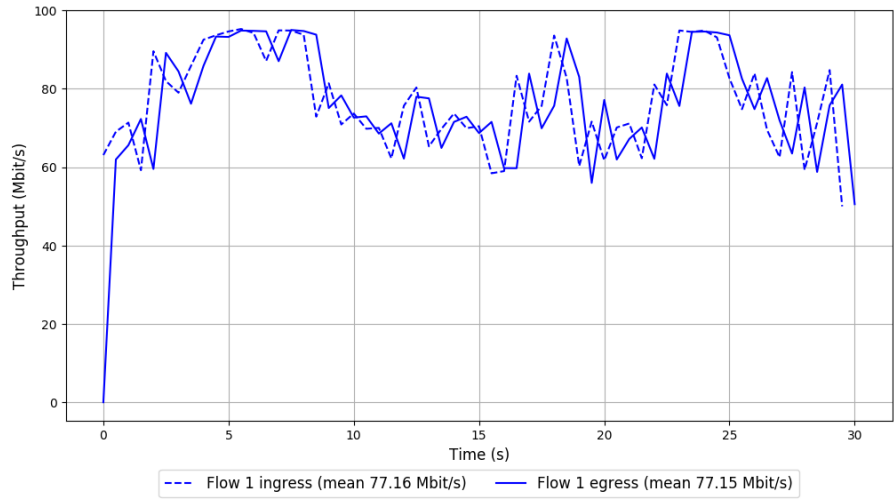


Run 4: Statistics of Copa

Start at: 2019-03-19 09:56:41  
End at: 2019-03-19 09:57:11  
Local clock offset: 0.615 ms  
Remote clock offset: -4.246 ms

# Below is generated by plot.py at 2019-03-19 10:42:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 77.15 Mbit/s  
95th percentile per-packet one-way delay: 27.953 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 77.15 Mbit/s  
95th percentile per-packet one-way delay: 27.953 ms  
Loss rate: 0.10%

### Run 4: Report of Copa — Data Link

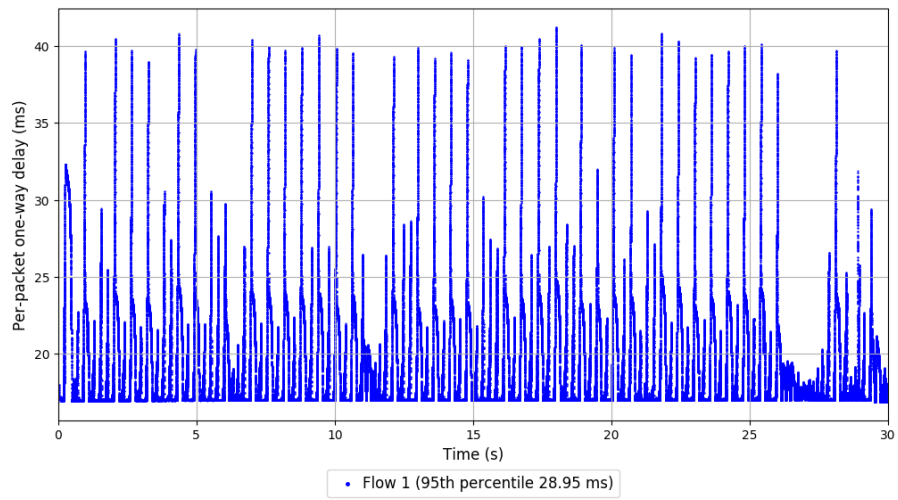
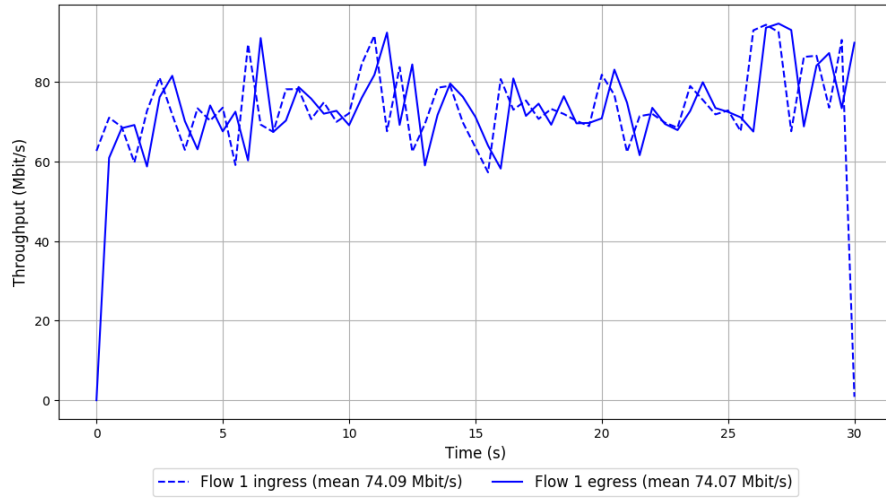


Run 5: Statistics of Copa

Start at: 2019-03-19 10:20:47  
End at: 2019-03-19 10:21:17  
Local clock offset: 0.594 ms  
Remote clock offset: -2.651 ms

```
# Below is generated by plot.py at 2019-03-19 10:42:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.07 Mbit/s
95th percentile per-packet one-way delay: 28.945 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 74.07 Mbit/s
95th percentile per-packet one-way delay: 28.945 ms
Loss rate: 0.11%
```

Run 5: Report of Copa — Data Link



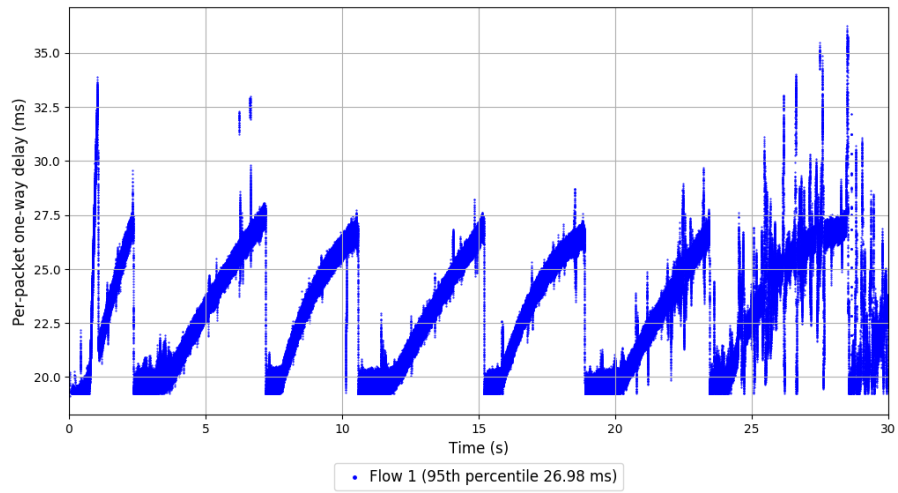
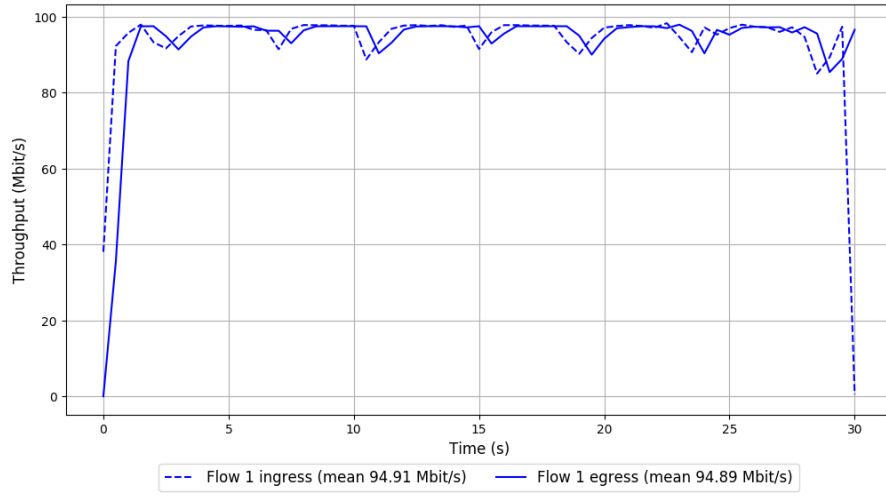


Run 1: Statistics of TCP Cubic

Start at: 2019-03-19 08:39:40  
End at: 2019-03-19 08:40:10  
Local clock offset: 0.809 ms  
Remote clock offset: -4.015 ms

# Below is generated by plot.py at 2019-03-19 10:42:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.89 Mbit/s  
95th percentile per-packet one-way delay: 26.982 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 94.89 Mbit/s  
95th percentile per-packet one-way delay: 26.982 ms  
Loss rate: 0.10%

Run 1: Report of TCP Cubic — Data Link

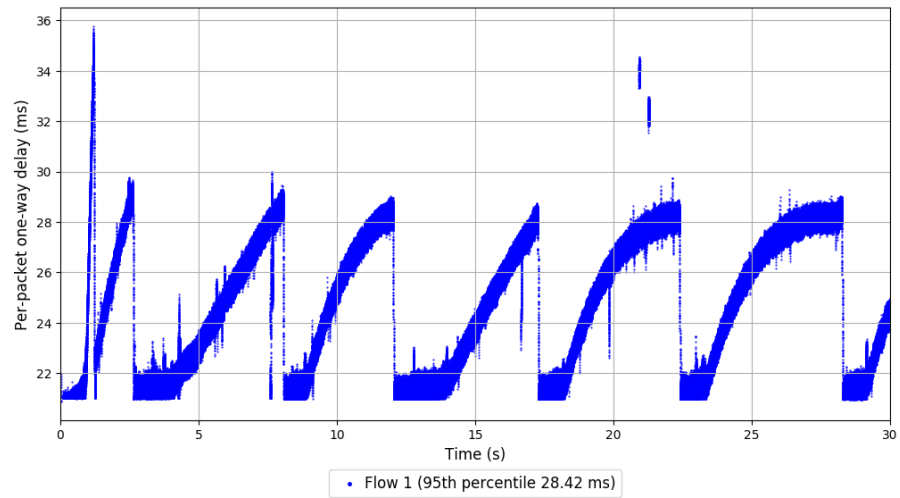
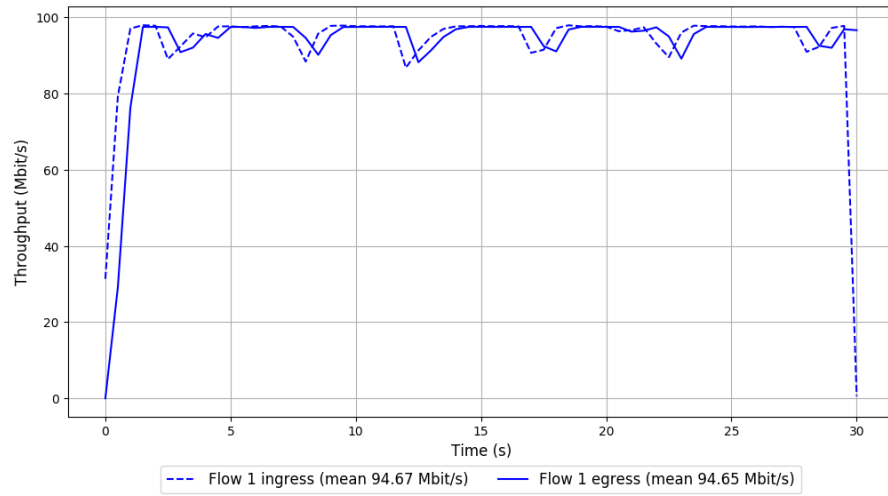


Run 2: Statistics of TCP Cubic

Start at: 2019-03-19 09:04:45  
End at: 2019-03-19 09:05:15  
Local clock offset: 1.961 ms  
Remote clock offset: -3.866 ms

# Below is generated by plot.py at 2019-03-19 10:42:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.65 Mbit/s  
95th percentile per-packet one-way delay: 28.423 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 94.65 Mbit/s  
95th percentile per-packet one-way delay: 28.423 ms  
Loss rate: 0.11%

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



Run 3: Statistics of TCP Cubic

Start at: 2019-03-19 09:29:06

End at: 2019-03-19 09:29:36

Local clock offset: -0.342 ms

Remote clock offset: -4.51 ms

# Below is generated by plot.py at 2019-03-19 10:42:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.28 Mbit/s

95th percentile per-packet one-way delay: 25.139 ms

Loss rate: 0.10%

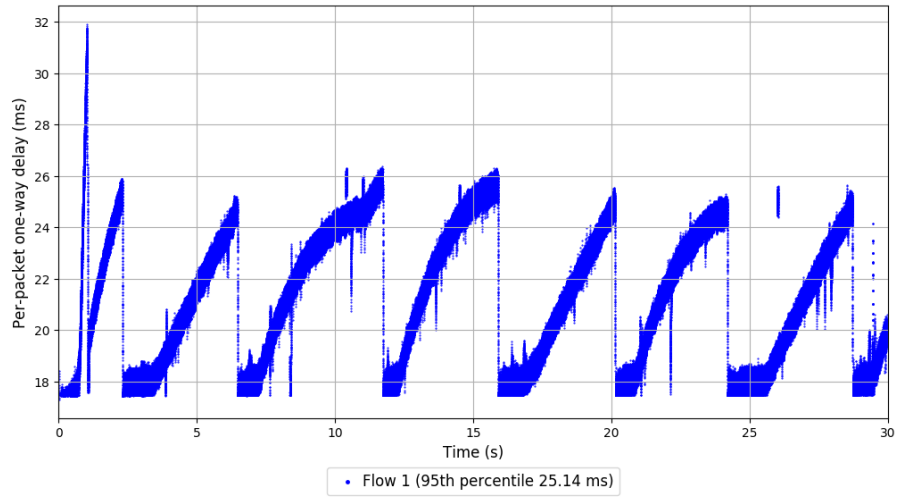
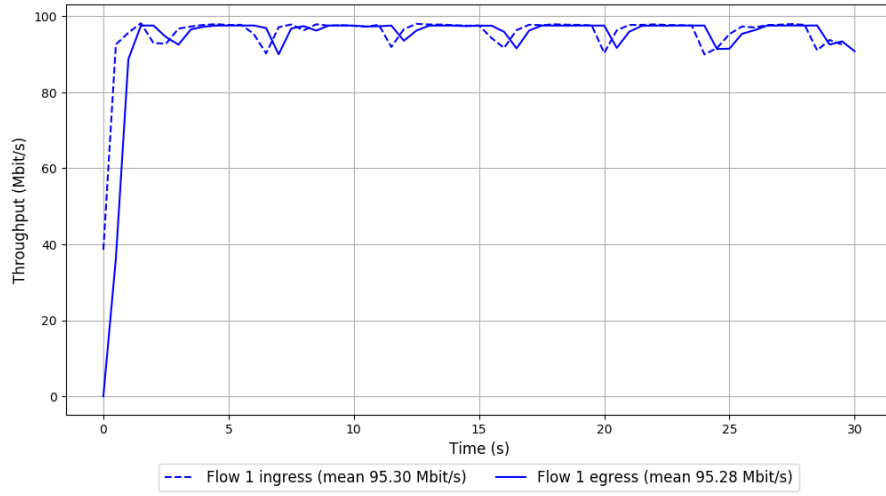
-- Flow 1:

Average throughput: 95.28 Mbit/s

95th percentile per-packet one-way delay: 25.139 ms

Loss rate: 0.10%

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

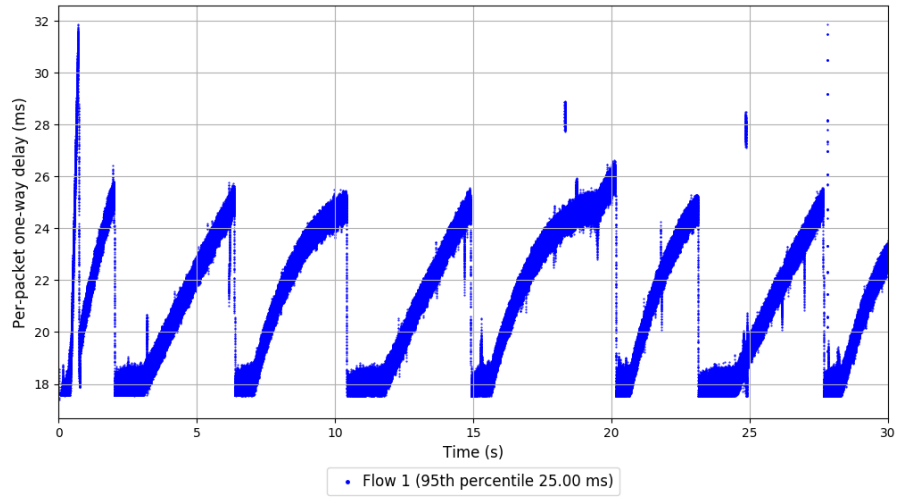
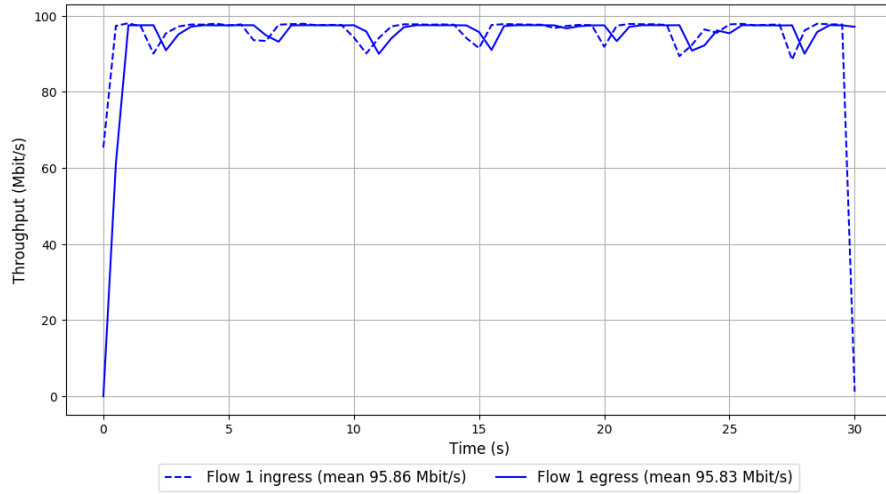


Run 4: Statistics of TCP Cubic

Start at: 2019-03-19 09:53:19  
End at: 2019-03-19 09:53:49  
Local clock offset: 0.419 ms  
Remote clock offset: -3.872 ms

```
# Below is generated by plot.py at 2019-03-19 10:42:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.83 Mbit/s
95th percentile per-packet one-way delay: 25.002 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 95.83 Mbit/s
95th percentile per-packet one-way delay: 25.002 ms
Loss rate: 0.11%
```

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



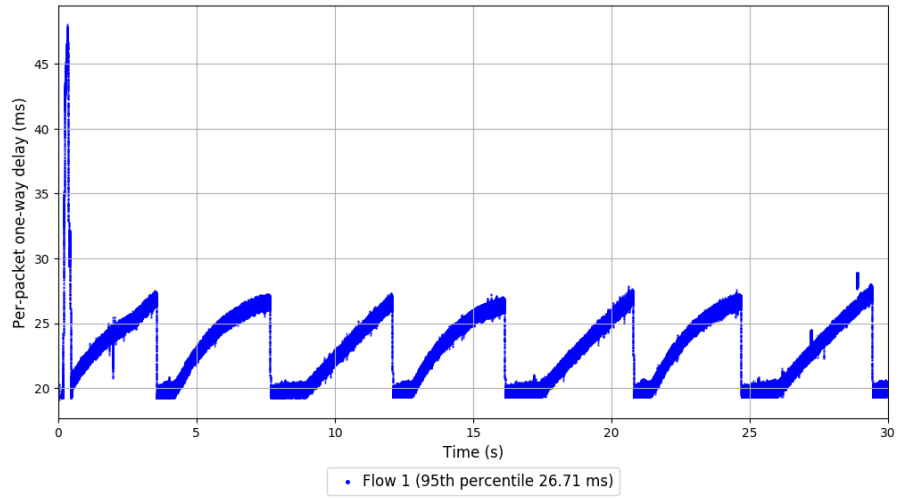
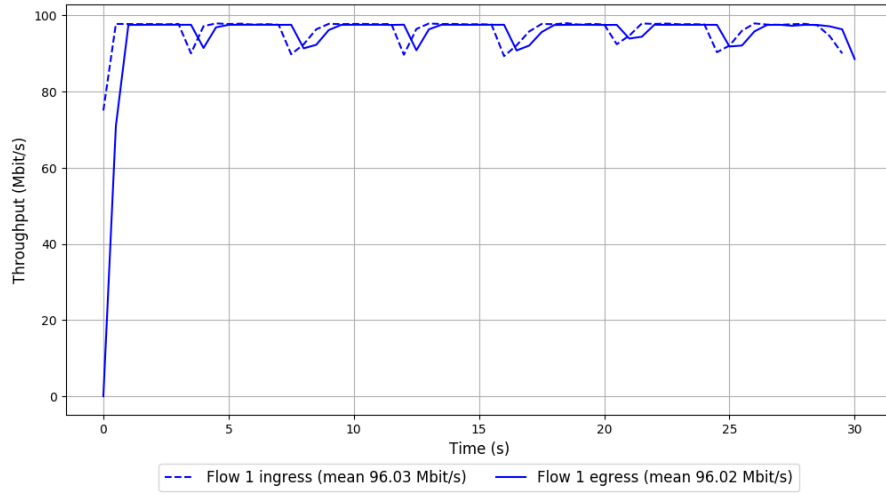


Run 5: Statistics of TCP Cubic

Start at: 2019-03-19 10:17:25  
End at: 2019-03-19 10:17:55  
Local clock offset: 1.983 ms  
Remote clock offset: -4.135 ms

# Below is generated by plot.py at 2019-03-19 10:42:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.02 Mbit/s  
95th percentile per-packet one-way delay: 26.715 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 96.02 Mbit/s  
95th percentile per-packet one-way delay: 26.715 ms  
Loss rate: 0.09%

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

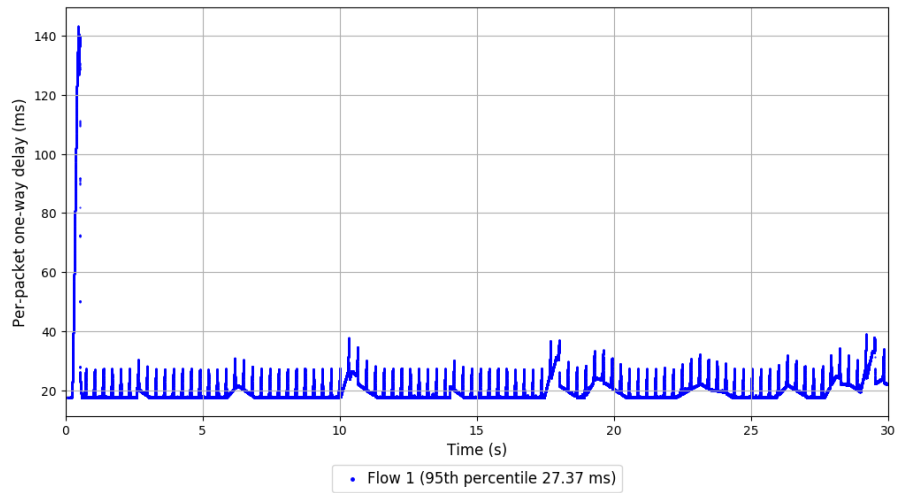
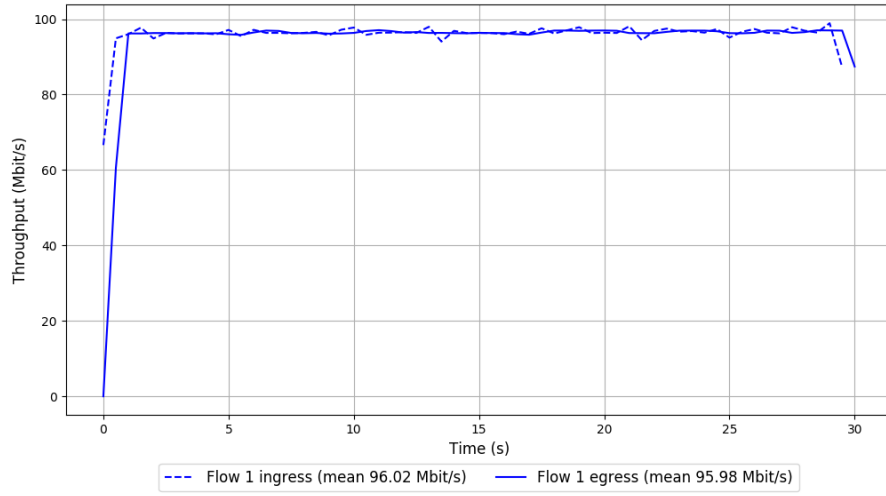


Run 1: Statistics of FillP

Start at: 2019-03-19 08:41:59  
End at: 2019-03-19 08:42:29  
Local clock offset: 1.072 ms  
Remote clock offset: -2.486 ms

# Below is generated by plot.py at 2019-03-19 10:42:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.98 Mbit/s  
95th percentile per-packet one-way delay: 27.371 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 95.98 Mbit/s  
95th percentile per-packet one-way delay: 27.371 ms  
Loss rate: 0.12%

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

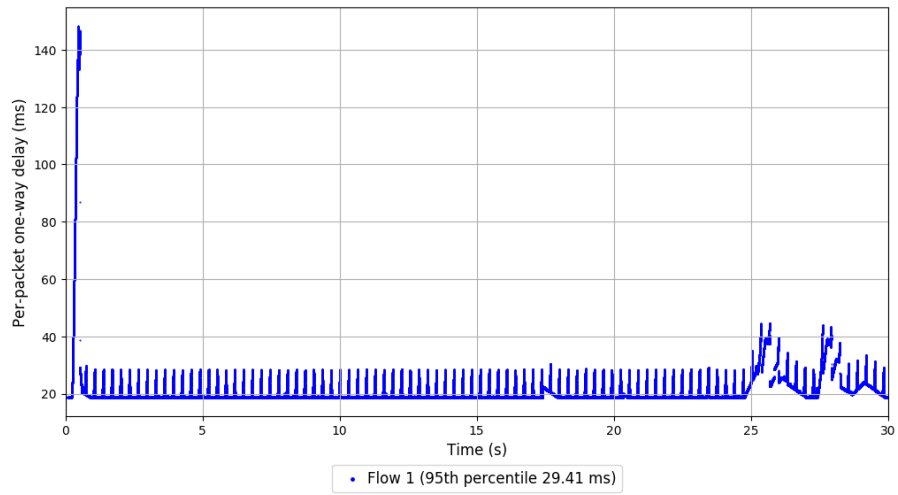
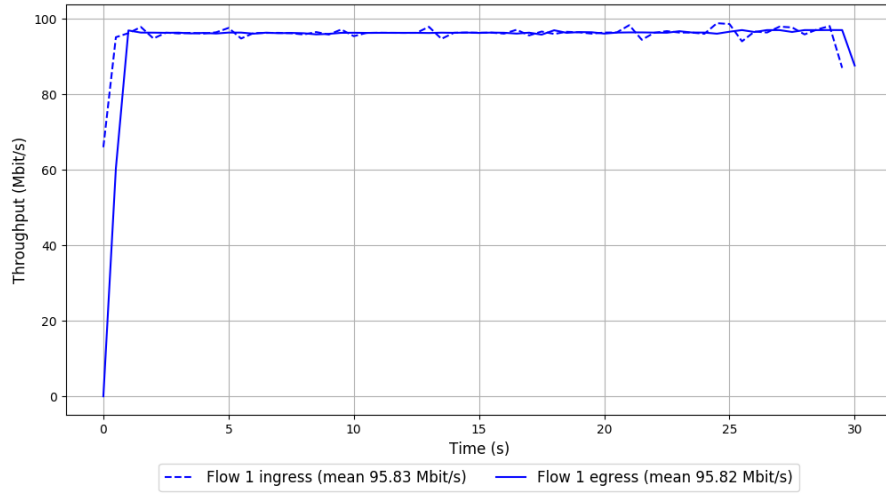


Run 2: Statistics of FillP

Start at: 2019-03-19 09:06:59  
End at: 2019-03-19 09:07:29  
Local clock offset: 3.77 ms  
Remote clock offset: -3.069 ms

# Below is generated by plot.py at 2019-03-19 10:43:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.82 Mbit/s  
95th percentile per-packet one-way delay: 29.415 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 95.82 Mbit/s  
95th percentile per-packet one-way delay: 29.415 ms  
Loss rate: 0.10%

## Run 2: Report of FillP — Data Link

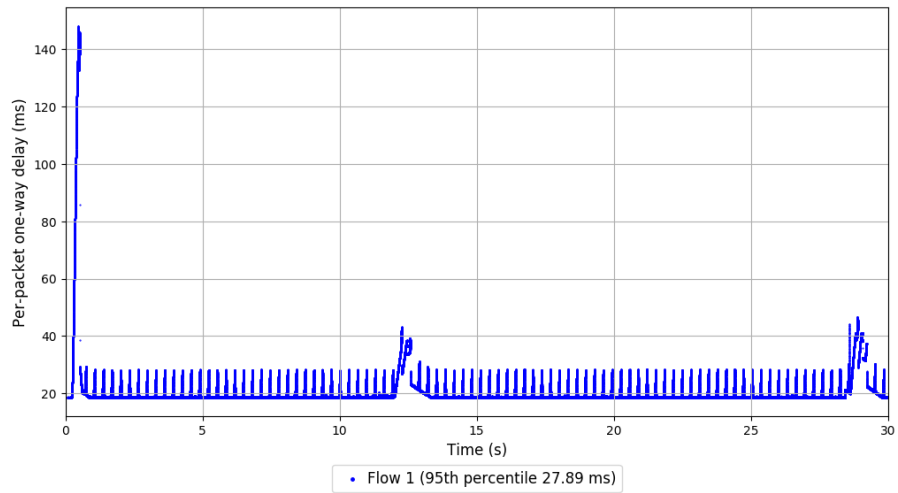
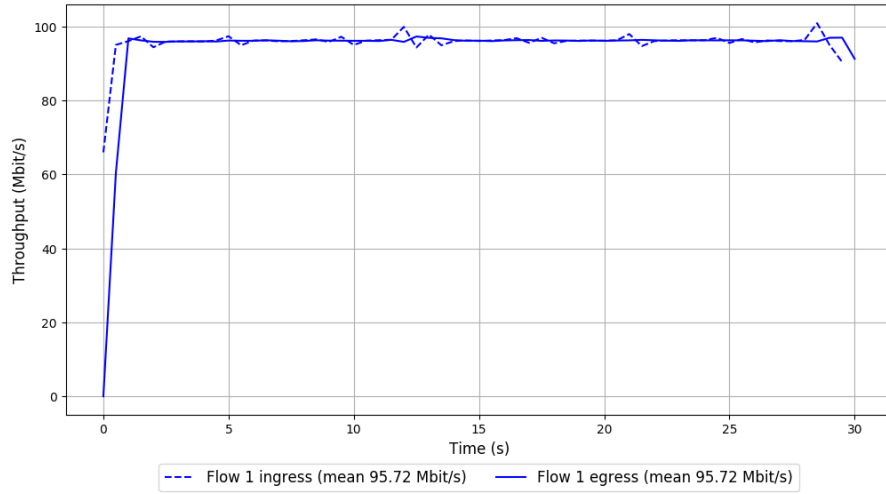


Run 3: Statistics of FillP

Start at: 2019-03-19 09:31:20  
End at: 2019-03-19 09:31:50  
Local clock offset: -0.044 ms  
Remote clock offset: -5.191 ms

# Below is generated by plot.py at 2019-03-19 10:43:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.72 Mbit/s  
95th percentile per-packet one-way delay: 27.892 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 95.72 Mbit/s  
95th percentile per-packet one-way delay: 27.892 ms  
Loss rate: 0.09%

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



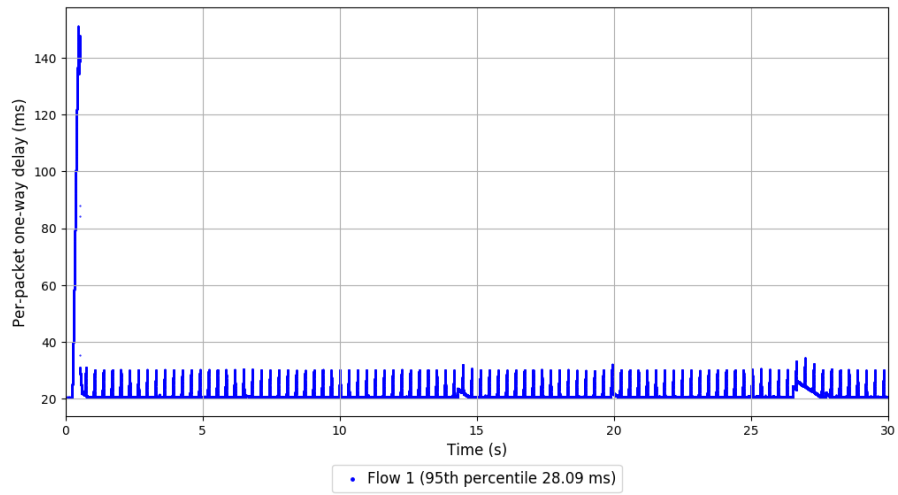
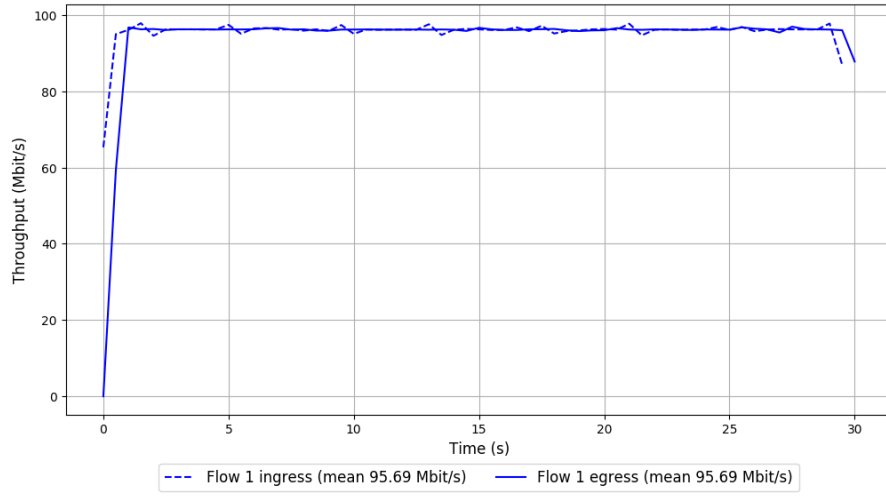


Run 4: Statistics of FillP

Start at: 2019-03-19 09:55:33  
End at: 2019-03-19 09:56:03  
Local clock offset: 1.667 ms  
Remote clock offset: -5.463 ms

# Below is generated by plot.py at 2019-03-19 10:43:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.69 Mbit/s  
95th percentile per-packet one-way delay: 28.093 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 95.69 Mbit/s  
95th percentile per-packet one-way delay: 28.093 ms  
Loss rate: 0.09%

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



Run 5: Statistics of FillP

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

End at: 2019-03-19 10:20:09

Local clock offset: 1.568 ms

Remote clock offset: -4.707 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.80 Mbit/s

95th percentile per-packet one-way delay: 34.472 ms

Loss rate: 0.11%

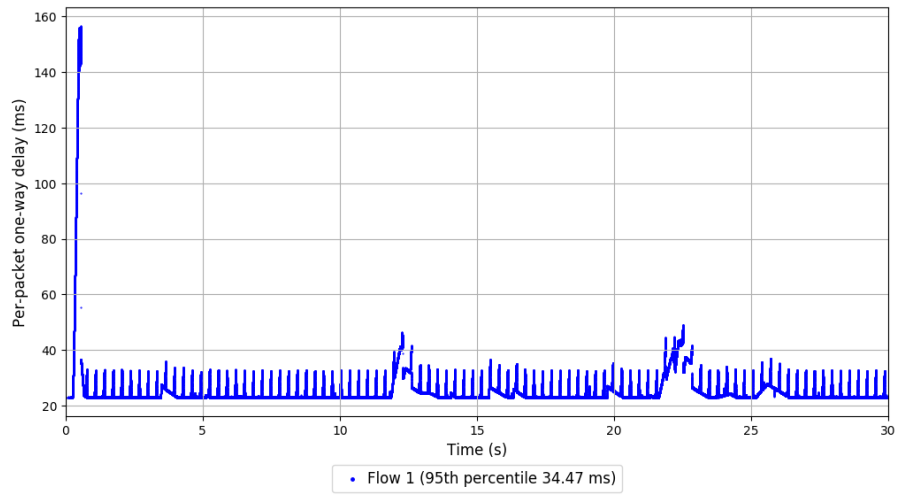
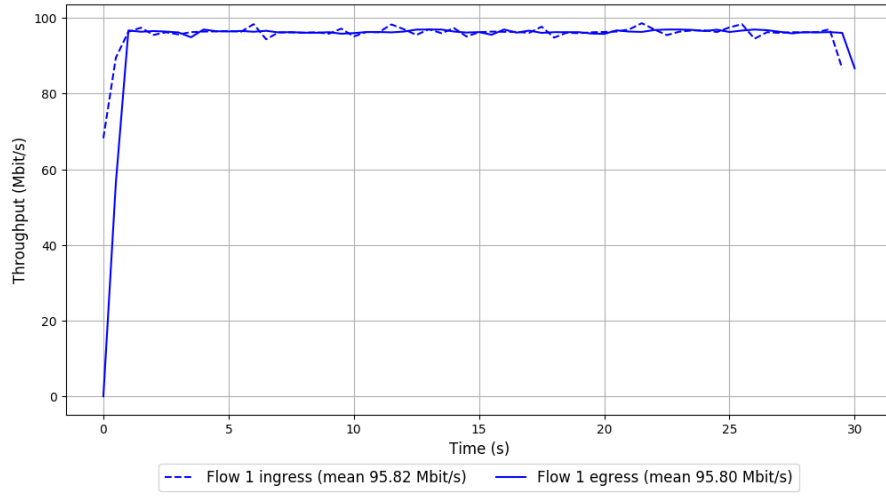
-- Flow 1:

Average throughput: 95.80 Mbit/s

95th percentile per-packet one-way delay: 34.472 ms

Loss rate: 0.11%

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



Run 1: Statistics of FillP-Sheep

Start at: 2019-03-19 08:50:22

End at: 2019-03-19 08:50:52

Local clock offset: 1.128 ms

Remote clock offset: -4.757 ms

# Below is generated by plot.py at 2019-03-19 10:43:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.23 Mbit/s

95th percentile per-packet one-way delay: 23.453 ms

Loss rate: 0.08%

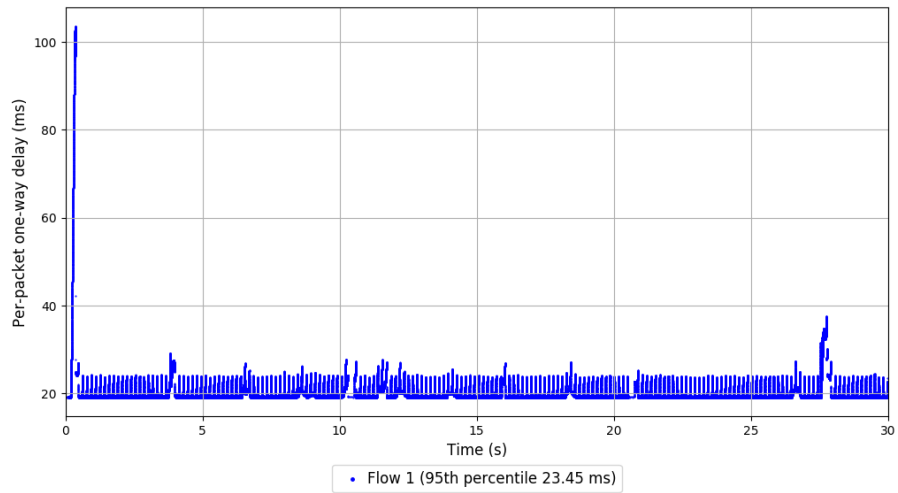
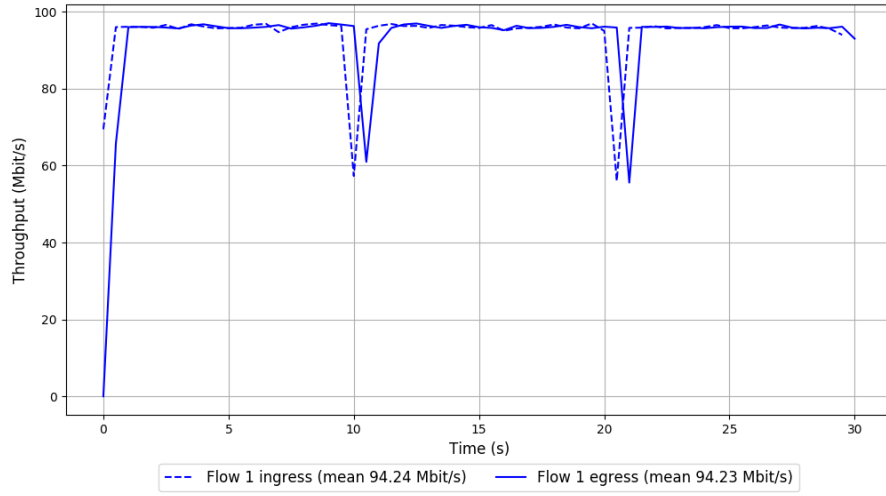
-- Flow 1:

Average throughput: 94.23 Mbit/s

95th percentile per-packet one-way delay: 23.453 ms

Loss rate: 0.08%

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



Run 2: Statistics of FillP-Sheep

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

End at: 2019-03-19 09:15:33

Local clock offset: 3.974 ms

Remote clock offset: -4.909 ms

# Below is generated by plot.py at 2019-03-19 10:43:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.08 Mbit/s

95th percentile per-packet one-way delay: 24.425 ms

Loss rate: 0.09%

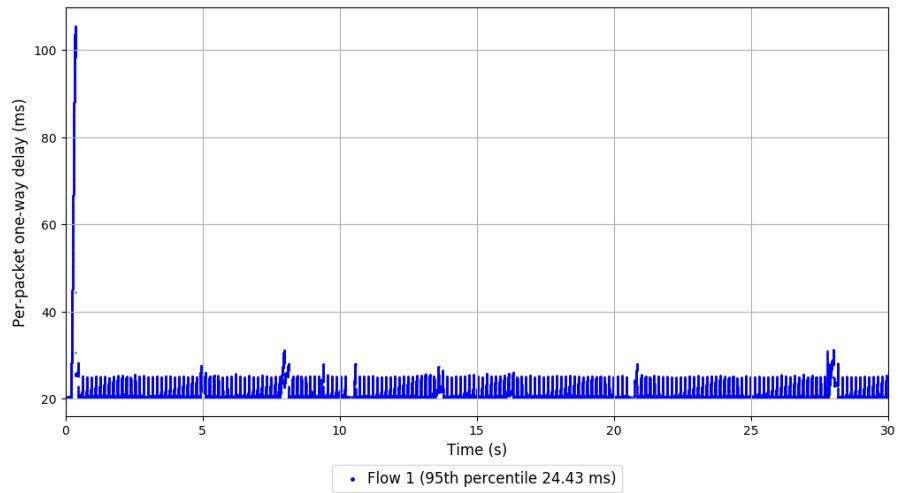
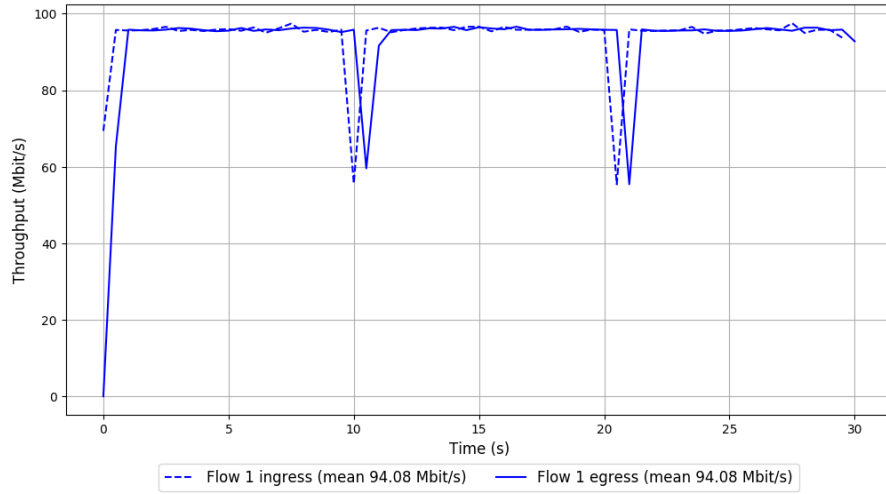
-- Flow 1:

Average throughput: 94.08 Mbit/s

95th percentile per-packet one-way delay: 24.425 ms

Loss rate: 0.09%

## Run 2: Report of FillP-Sheep — Data Link





Run 3: Statistics of FillP-Sheep

Start at: 2019-03-19 09:39:21

End at: 2019-03-19 09:39:51

Local clock offset: -0.479 ms

Remote clock offset: -4.43 ms

# Below is generated by plot.py at 2019-03-19 10:43:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.84 Mbit/s

95th percentile per-packet one-way delay: 24.606 ms

Loss rate: 0.10%

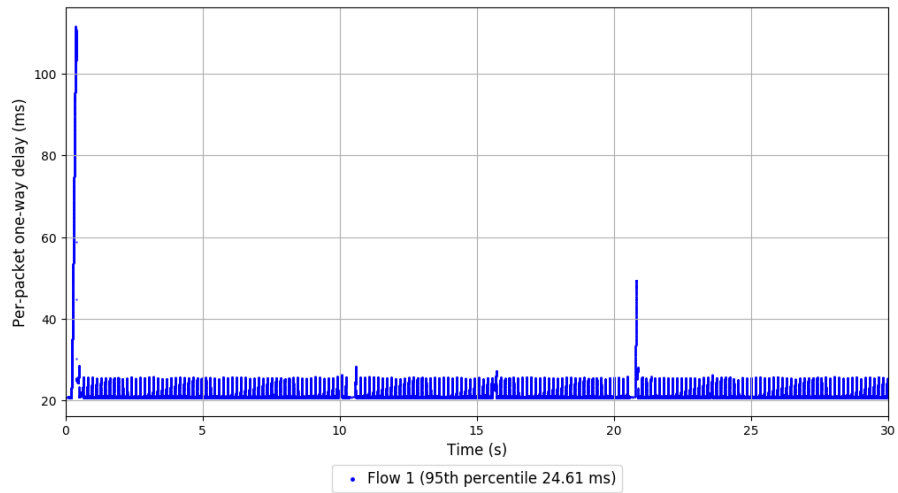
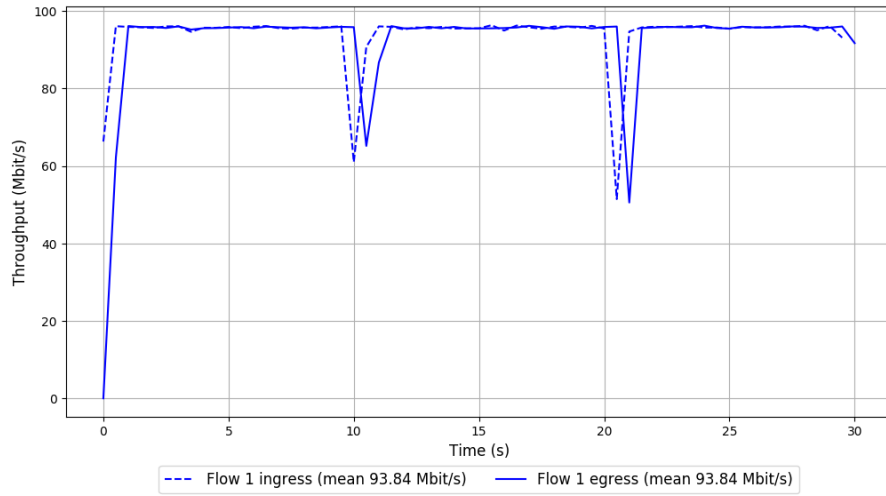
-- Flow 1:

Average throughput: 93.84 Mbit/s

95th percentile per-packet one-way delay: 24.606 ms

Loss rate: 0.10%

### Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-03-19 10:03:35

End at: 2019-03-19 10:04:05

Local clock offset: 1.474 ms

Remote clock offset: -3.701 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.96 Mbit/s

95th percentile per-packet one-way delay: 25.283 ms

Loss rate: 0.10%

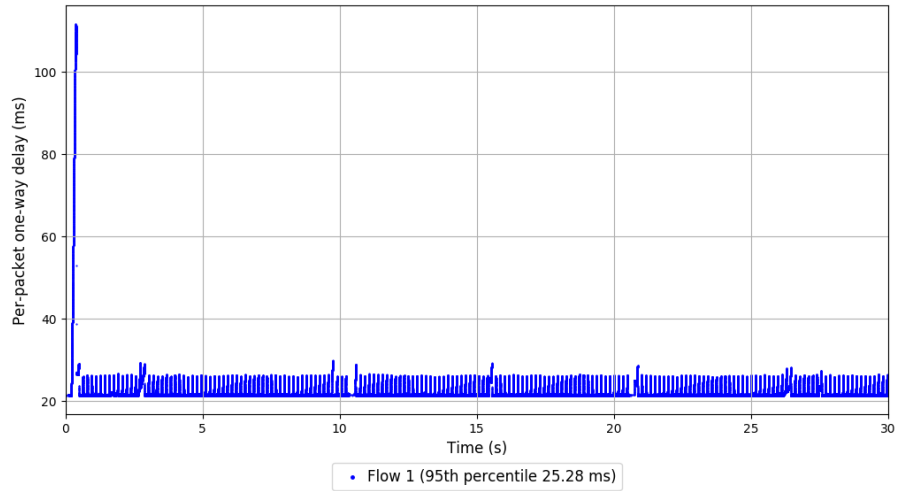
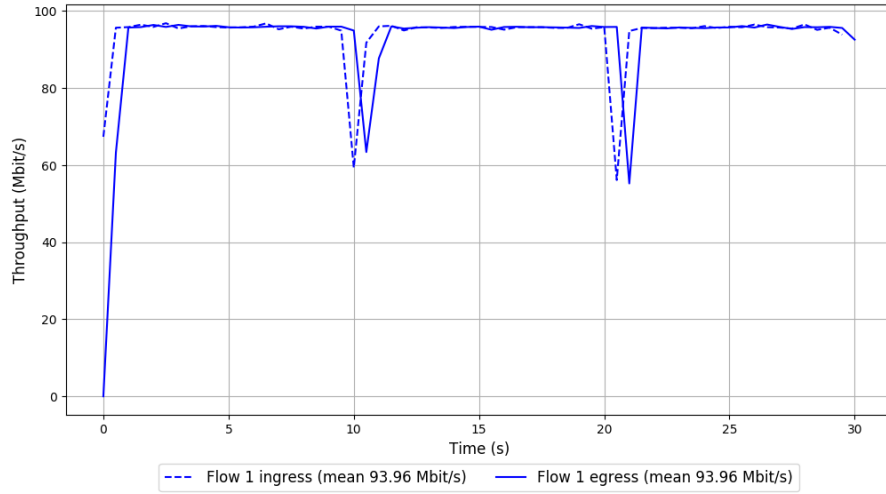
-- Flow 1:

Average throughput: 93.96 Mbit/s

95th percentile per-packet one-way delay: 25.283 ms

Loss rate: 0.10%

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



Run 5: Statistics of FillP-Sheep

Start at: 2019-03-19 10:27:38

End at: 2019-03-19 10:28:08

Local clock offset: 0.677 ms

Remote clock offset: -3.885 ms

# Below is generated by plot.py at 2019-03-19 10:44:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.16 Mbit/s

95th percentile per-packet one-way delay: 22.949 ms

Loss rate: 0.09%

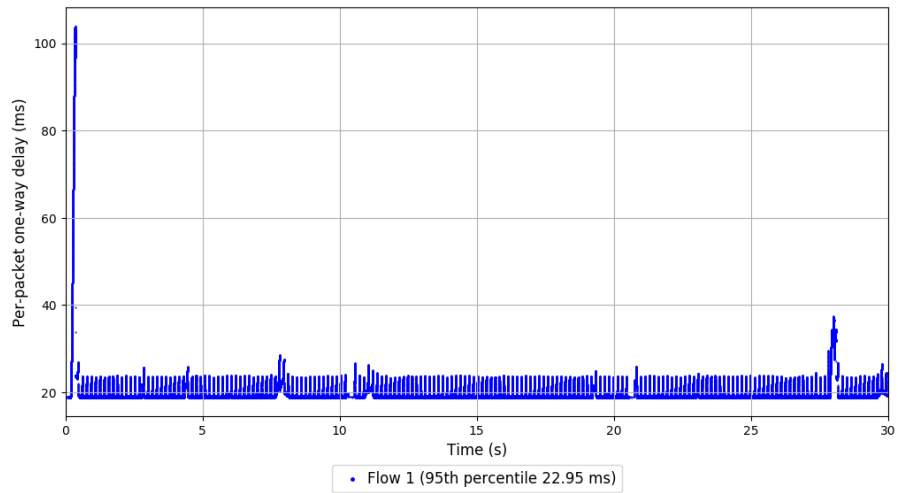
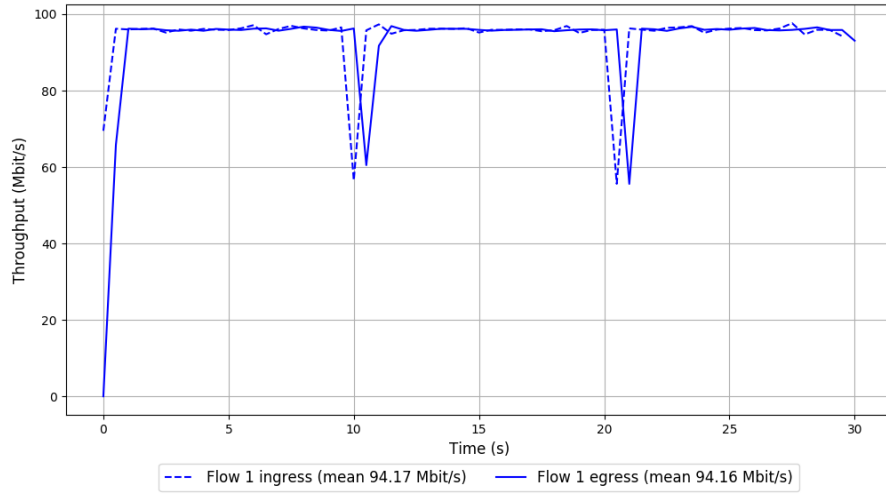
-- Flow 1:

Average throughput: 94.16 Mbit/s

95th percentile per-packet one-way delay: 22.949 ms

Loss rate: 0.09%

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

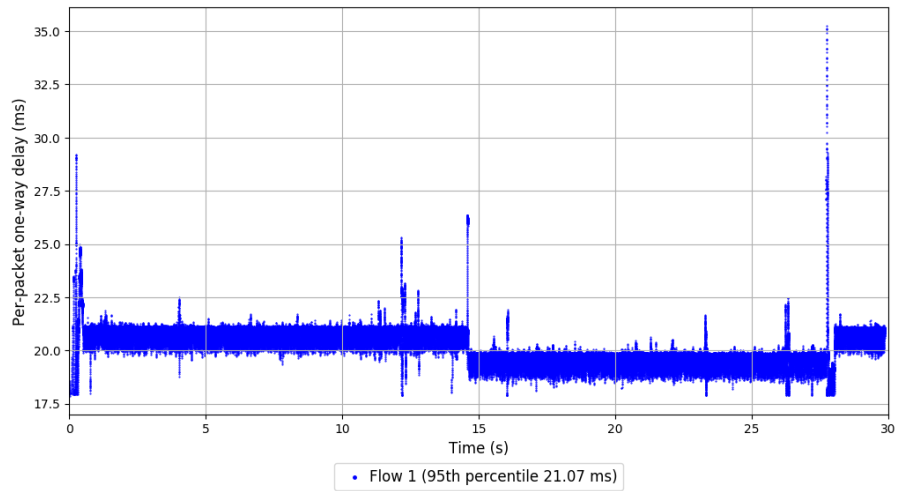
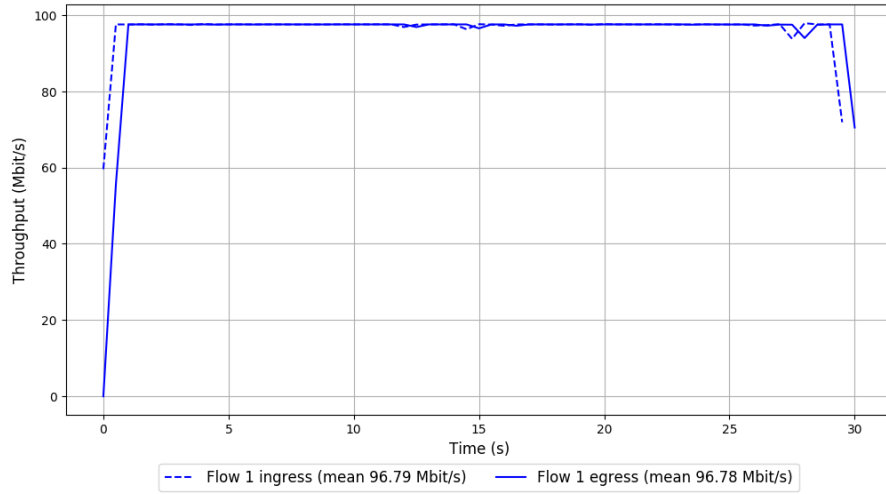


Run 1: Statistics of Indigo

Start at: 2019-03-19 08:56:31  
End at: 2019-03-19 08:57:01  
Local clock offset: 1.943 ms  
Remote clock offset: -3.428 ms

# Below is generated by plot.py at 2019-03-19 10:44:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.78 Mbit/s  
95th percentile per-packet one-way delay: 21.074 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 96.78 Mbit/s  
95th percentile per-packet one-way delay: 21.074 ms  
Loss rate: 0.09%

### Run 1: Report of Indigo — Data Link





Run 2: Statistics of Indigo

Start at: 2019-03-19 09:20:52

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

Local clock offset: 1.996 ms

Remote clock offset: -3.764 ms

# Below is generated by plot.py at 2019-03-19 10:44:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.71 Mbit/s

95th percentile per-packet one-way delay: 20.132 ms

Loss rate: 0.09%

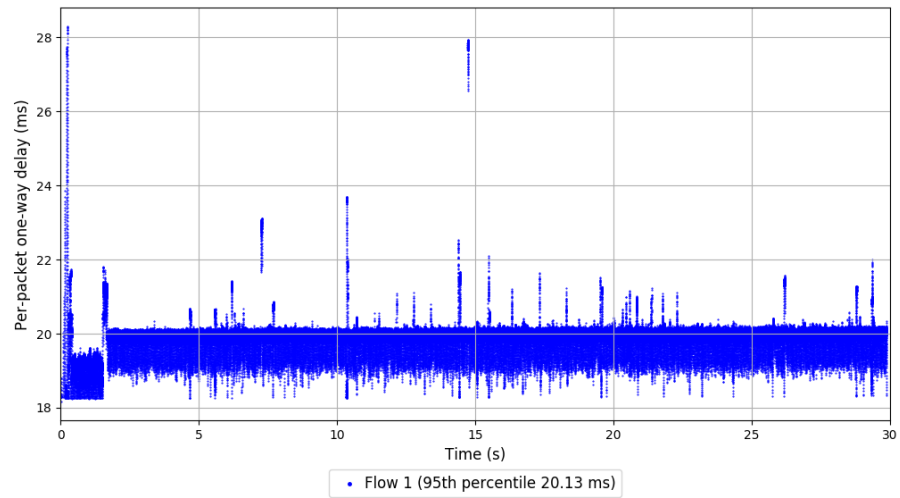
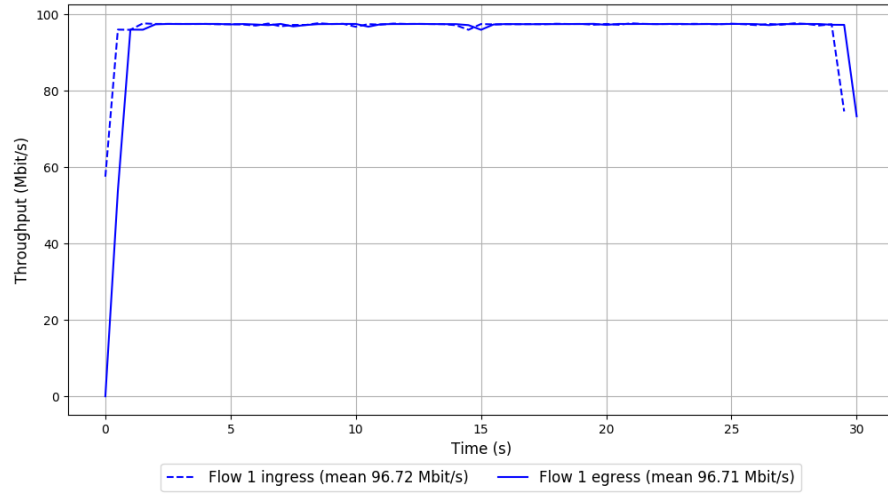
-- Flow 1:

Average throughput: 96.71 Mbit/s

95th percentile per-packet one-way delay: 20.132 ms

Loss rate: 0.09%

## Run 2: Report of Indigo — Data Link

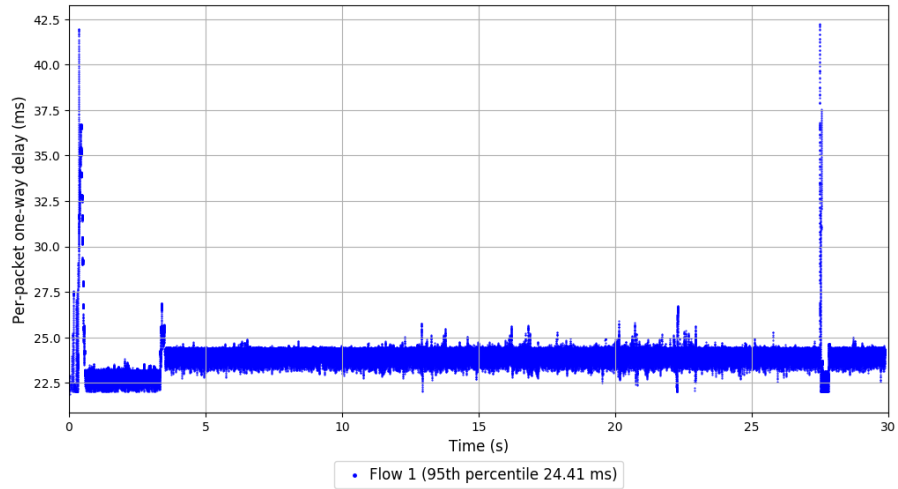
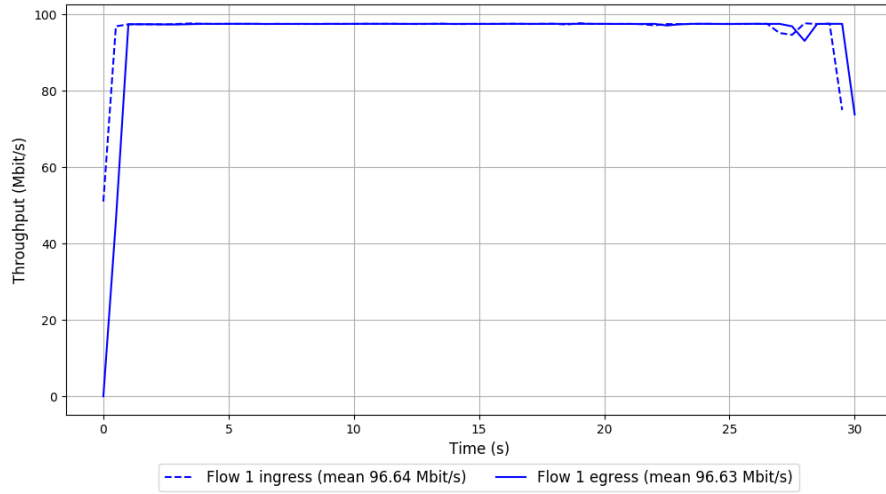


Run 3: Statistics of Indigo

Start at: 2019-03-19 09:45:07  
End at: 2019-03-19 09:45:37  
Local clock offset: -0.741 ms  
Remote clock offset: -5.708 ms

# Below is generated by plot.py at 2019-03-19 10:44:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.63 Mbit/s  
95th percentile per-packet one-way delay: 24.407 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 96.63 Mbit/s  
95th percentile per-packet one-way delay: 24.407 ms  
Loss rate: 0.10%

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

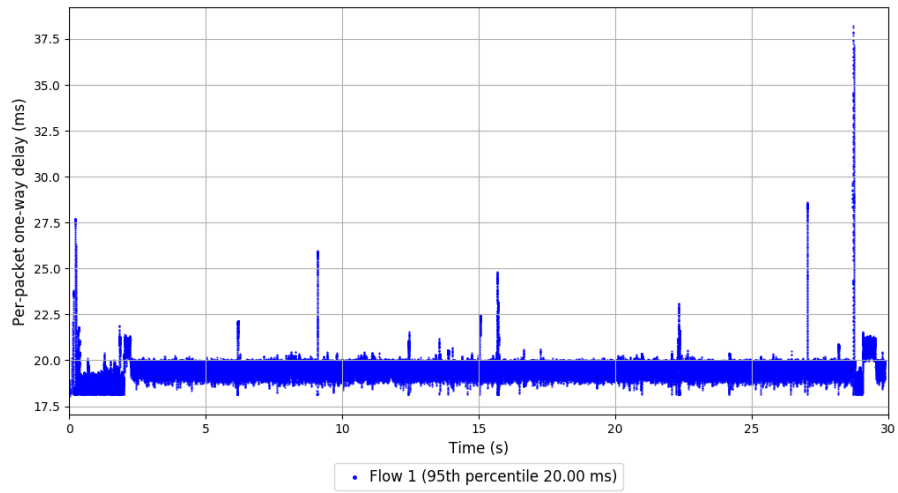
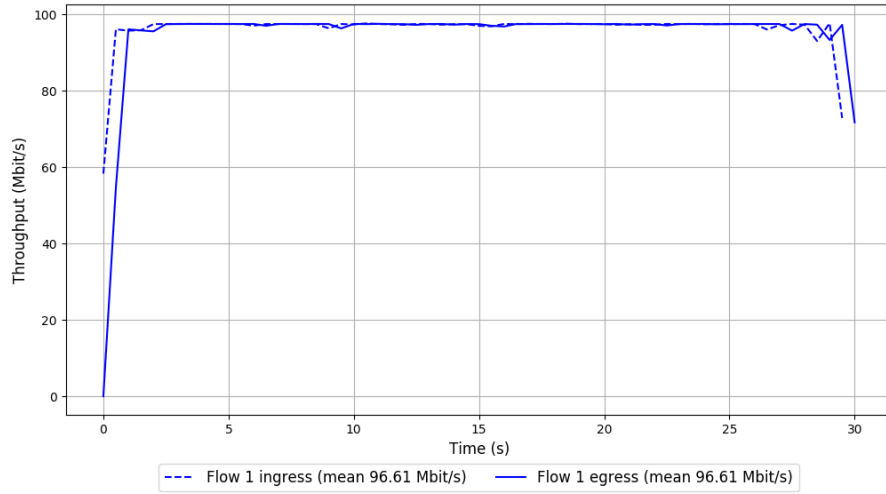


Run 4: Statistics of Indigo

Start at: 2019-03-19 10:09:21  
End at: 2019-03-19 10:09:51  
Local clock offset: 0.901 ms  
Remote clock offset: -4.158 ms

# Below is generated by plot.py at 2019-03-19 10:44:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.61 Mbit/s  
95th percentile per-packet one-way delay: 20.005 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 96.61 Mbit/s  
95th percentile per-packet one-way delay: 20.005 ms  
Loss rate: 0.09%

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



Run 5: Statistics of Indigo

Start at: 2019-03-19 10:33:23

End at: 2019-03-19 10:33:53

Local clock offset: 1.233 ms

Remote clock offset: -3.34 ms

# Below is generated by plot.py at 2019-03-19 10:44:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.93 Mbit/s

95th percentile per-packet one-way delay: 21.095 ms

Loss rate: 0.09%

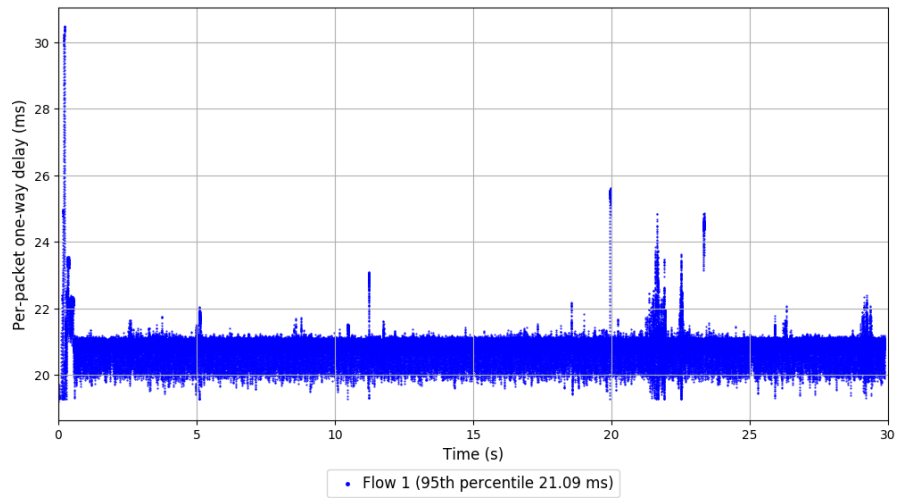
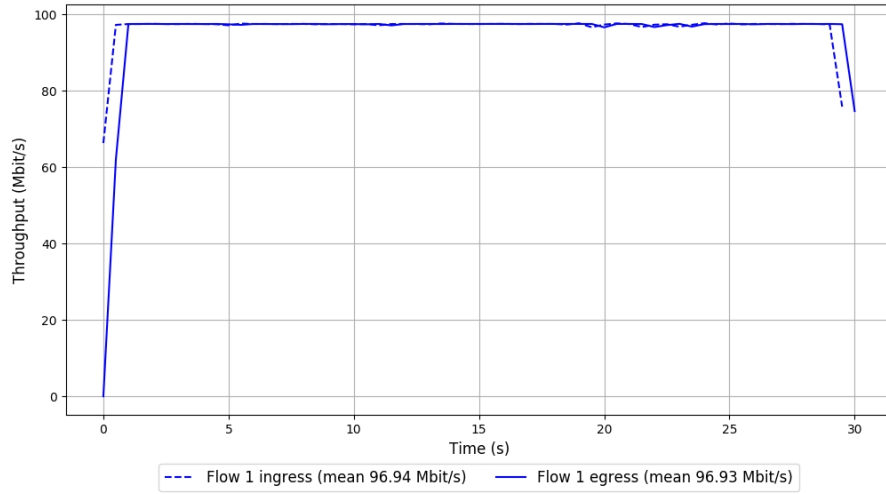
-- Flow 1:

Average throughput: 96.93 Mbit/s

95th percentile per-packet one-way delay: 21.095 ms

Loss rate: 0.09%

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





Run 1: Statistics of Indigo-MusesC3

Start at: 2019-03-19 08:54:04

End at: 2019-03-19 08:54:34

Local clock offset: 1.678 ms

Remote clock offset: -4.357 ms

# Below is generated by plot.py at 2019-03-19 10:44:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.60 Mbit/s

95th percentile per-packet one-way delay: 21.940 ms

Loss rate: 0.11%

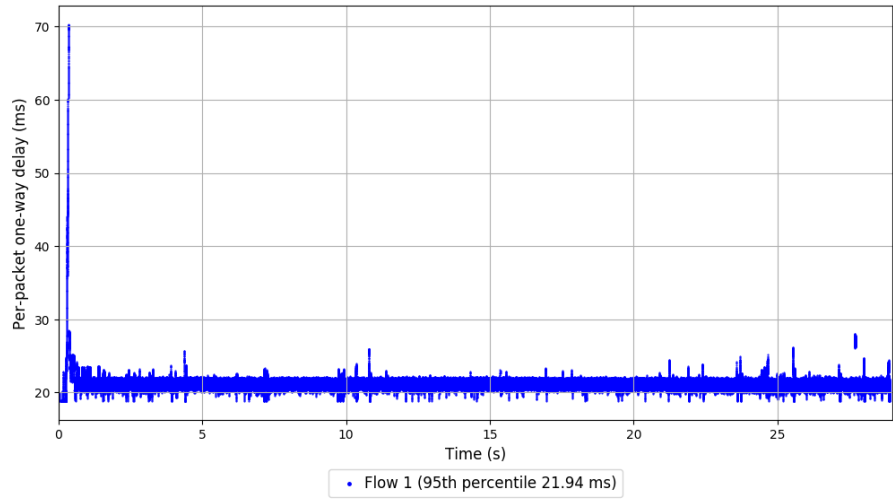
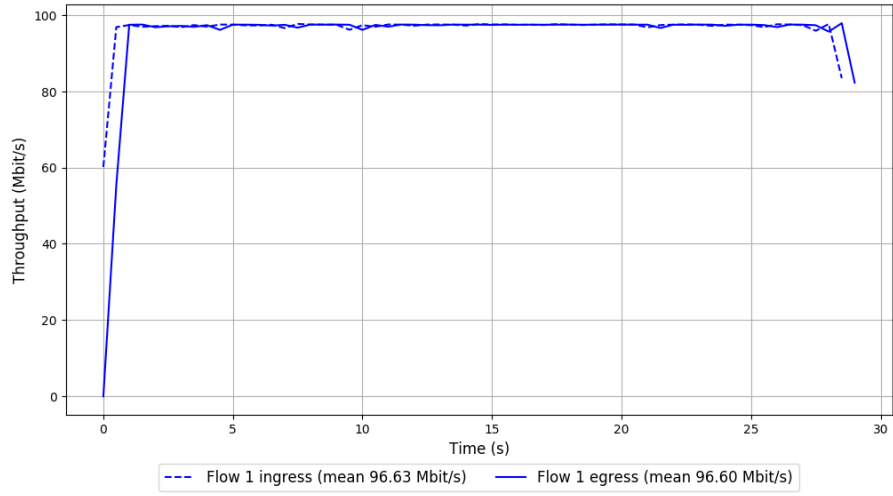
-- Flow 1:

Average throughput: 96.60 Mbit/s

95th percentile per-packet one-way delay: 21.940 ms

Loss rate: 0.11%

### Run 1: Report of Indigo-MusesC3 — Data Link

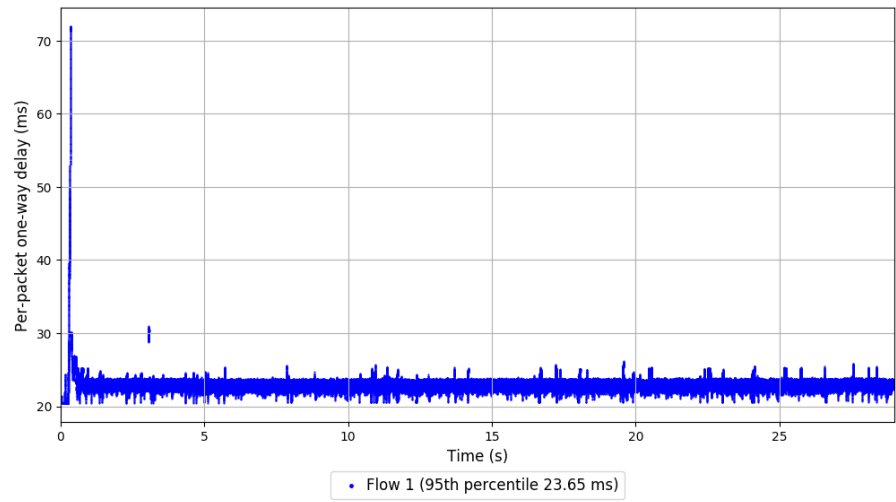
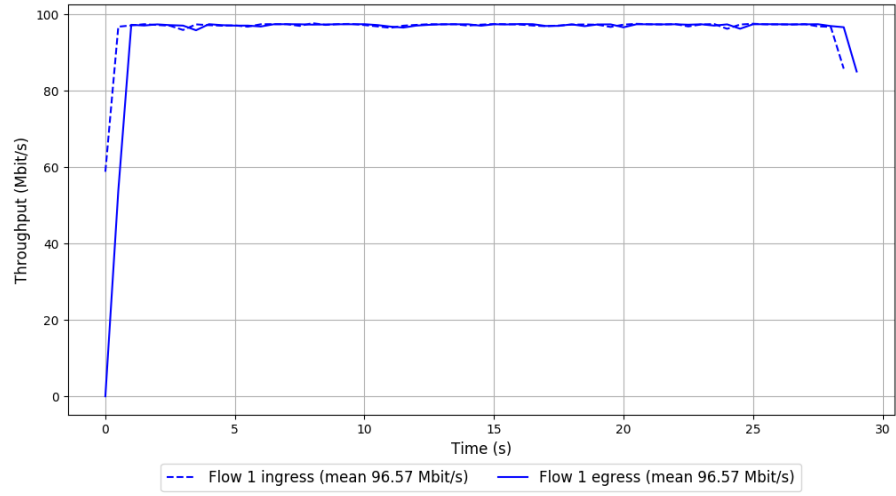


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-03-19 09:18:30  
End at: 2019-03-19 09:19:00  
Local clock offset: 3.313 ms  
Remote clock offset: -5.159 ms

# Below is generated by plot.py at 2019-03-19 10:45:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.57 Mbit/s  
95th percentile per-packet one-way delay: 23.653 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 96.57 Mbit/s  
95th percentile per-packet one-way delay: 23.653 ms  
Loss rate: 0.09%

## Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-03-19 09:42:48

End at: 2019-03-19 09:43:18

Local clock offset: -0.23 ms

Remote clock offset: -5.609 ms

# Below is generated by plot.py at 2019-03-19 10:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.18 Mbit/s

95th percentile per-packet one-way delay: 22.323 ms

Loss rate: 0.10%

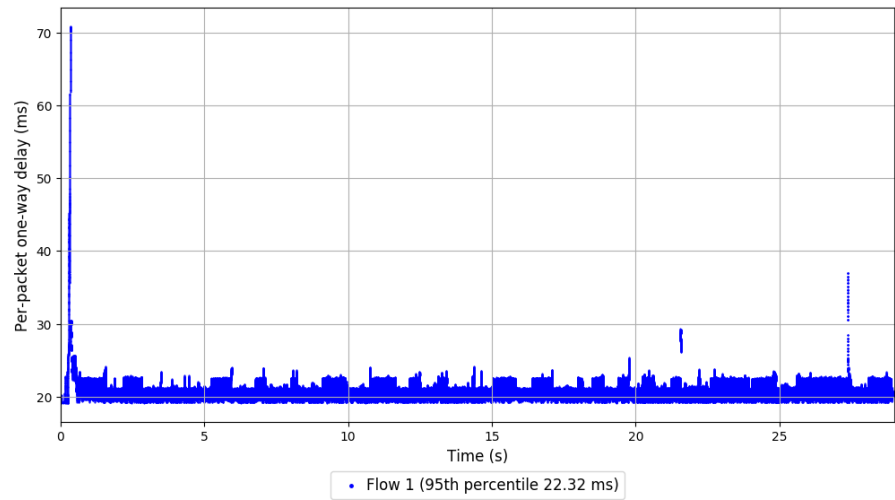
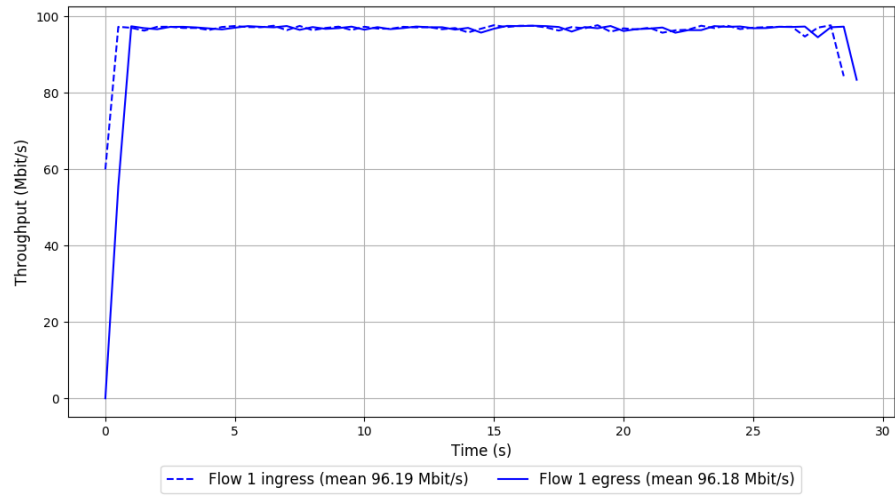
-- Flow 1:

Average throughput: 96.18 Mbit/s

95th percentile per-packet one-way delay: 22.323 ms

Loss rate: 0.10%

### Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-03-19 10:07:02

End at: 2019-03-19 10:07:32

Local clock offset: 2.867 ms

Remote clock offset: -3.408 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.57 Mbit/s

95th percentile per-packet one-way delay: 22.486 ms

Loss rate: 0.10%

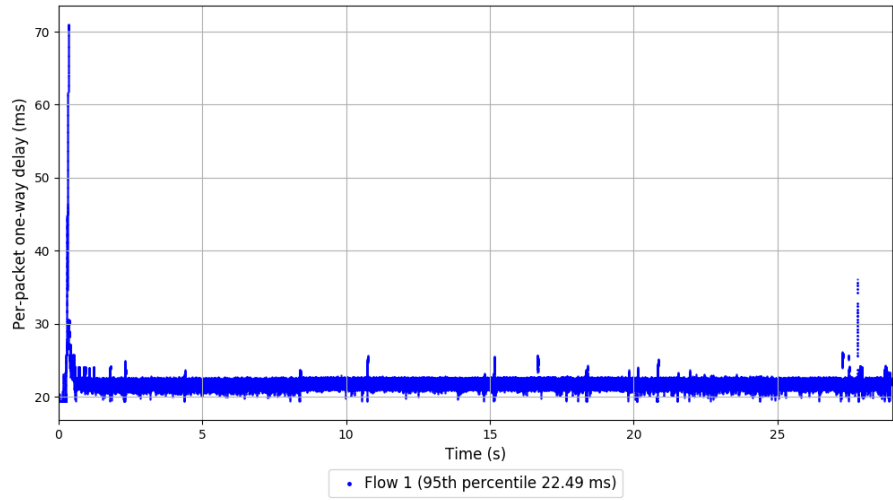
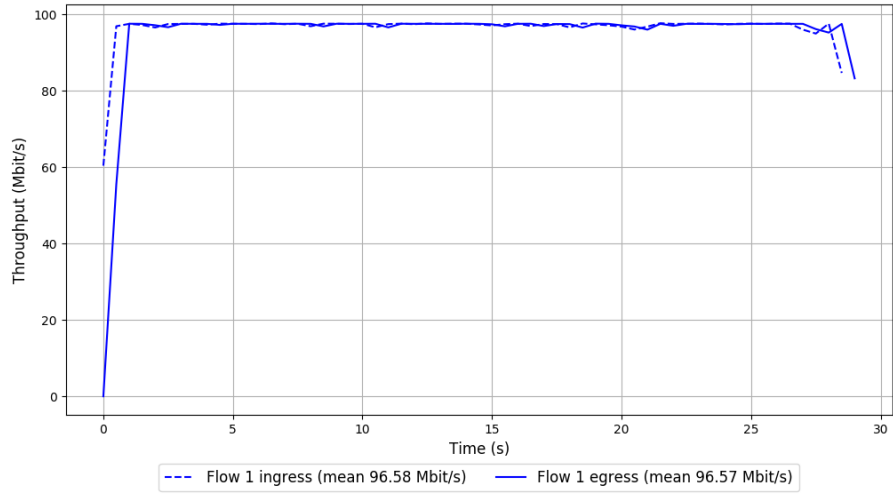
-- Flow 1:

Average throughput: 96.57 Mbit/s

95th percentile per-packet one-way delay: 22.486 ms

Loss rate: 0.10%

### Run 4: Report of Indigo-MusesC3 — Data Link





Run 5: Statistics of Indigo-MusesC3

Start at: 2019-03-19 10:31:04

End at: 2019-03-19 10:31:34

Local clock offset: 0.524 ms

Remote clock offset: -3.376 ms

# Below is generated by plot.py at 2019-03-19 10:45:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.67 Mbit/s

95th percentile per-packet one-way delay: 21.487 ms

Loss rate: 0.09%

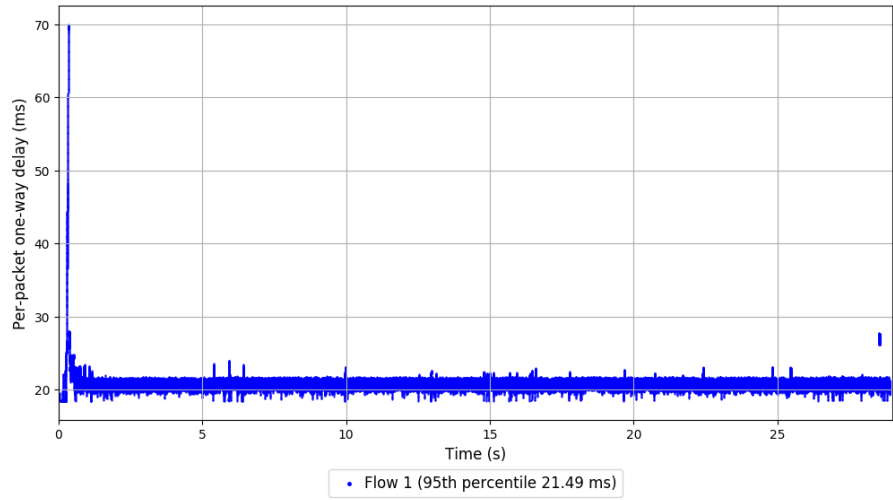
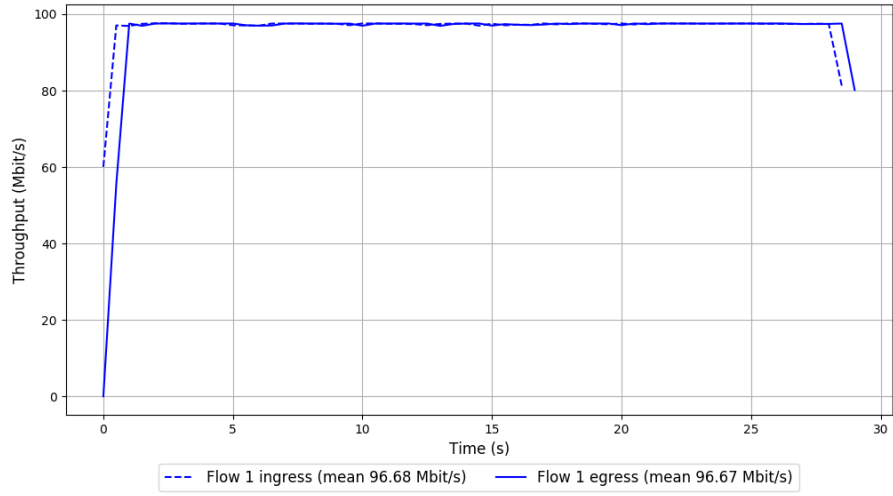
-- Flow 1:

Average throughput: 96.67 Mbit/s

95th percentile per-packet one-way delay: 21.487 ms

Loss rate: 0.09%

### Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-03-19 08:58:54

End at: 2019-03-19 08:59:24

Local clock offset: 1.866 ms

Remote clock offset: -3.567 ms

# Below is generated by plot.py at 2019-03-19 10:45:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.31 Mbit/s

95th percentile per-packet one-way delay: 20.542 ms

Loss rate: 0.09%

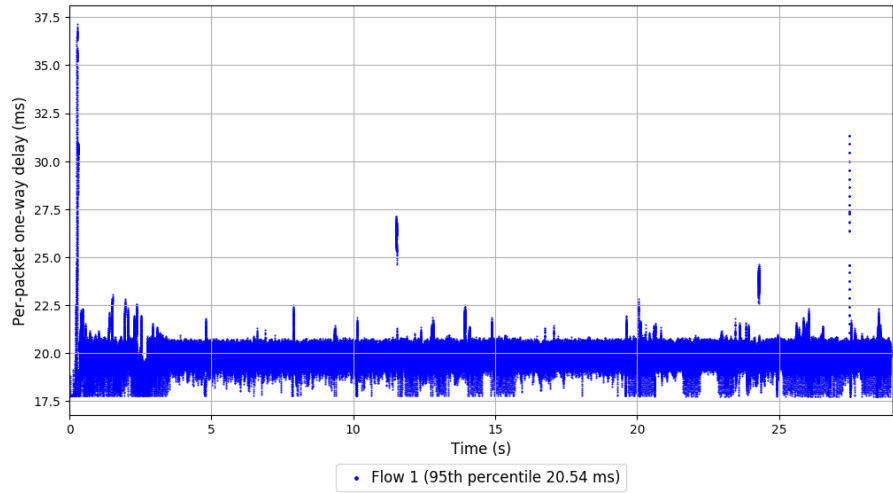
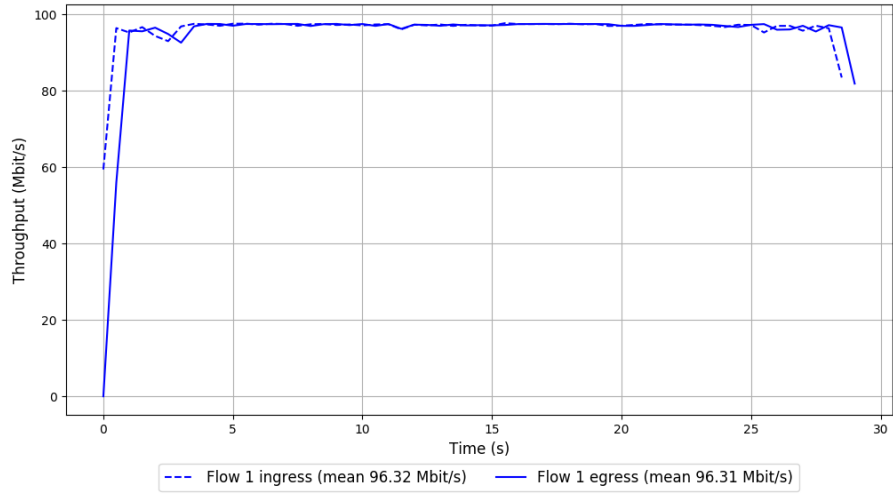
-- Flow 1:

Average throughput: 96.31 Mbit/s

95th percentile per-packet one-way delay: 20.542 ms

Loss rate: 0.09%

### Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-03-19 09:23:16

End at: 2019-03-19 09:23:46

Local clock offset: 2.011 ms

Remote clock offset: -4.146 ms

# Below is generated by plot.py at 2019-03-19 10:45:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.13 Mbit/s

95th percentile per-packet one-way delay: 22.060 ms

Loss rate: 0.09%

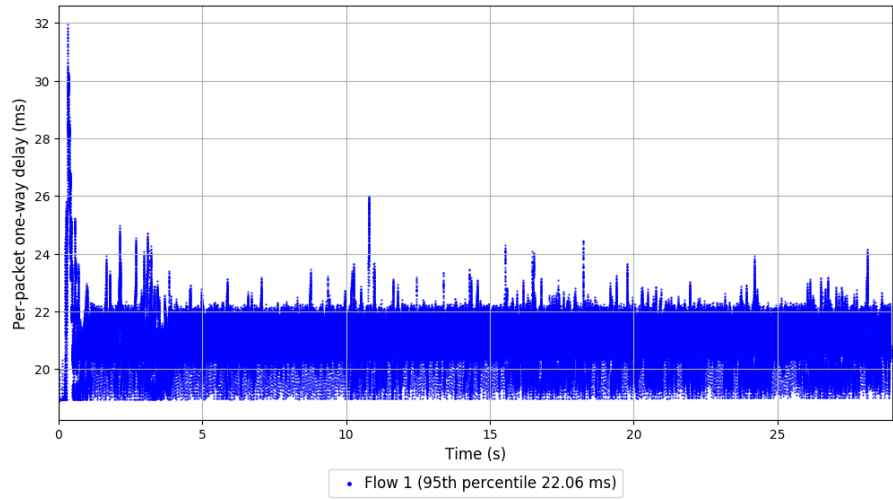
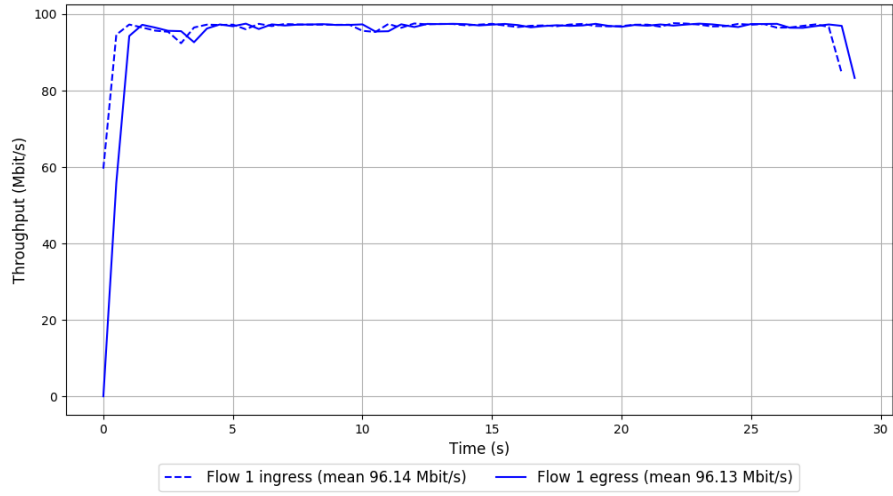
-- Flow 1:

Average throughput: 96.13 Mbit/s

95th percentile per-packet one-way delay: 22.060 ms

Loss rate: 0.09%

## Run 2: Report of Indigo-MusesC5 — Data Link

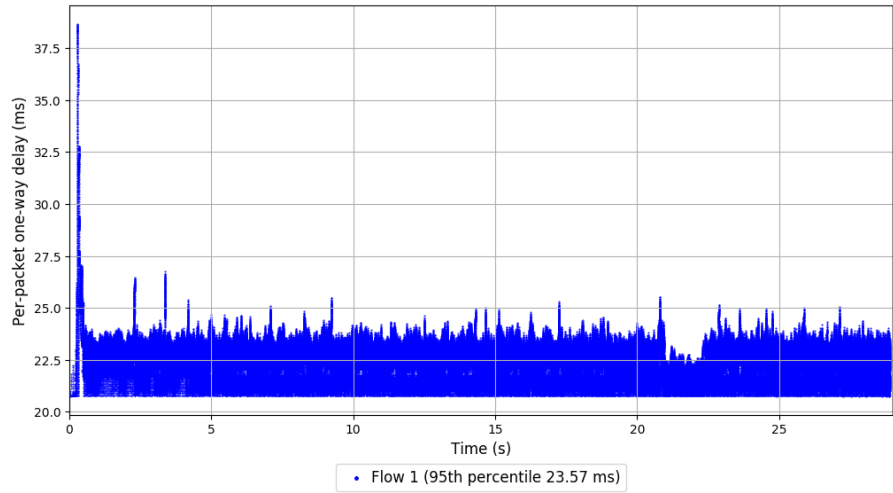
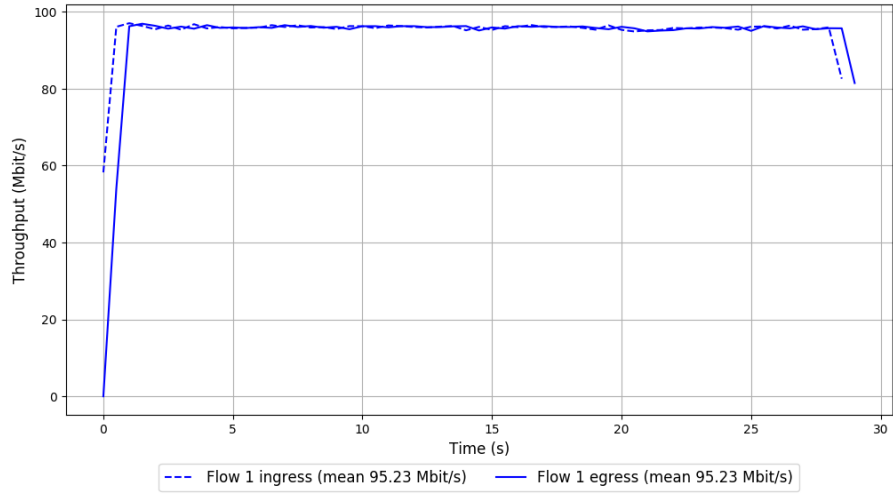


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-03-19 09:47:27  
End at: 2019-03-19 09:47:57  
Local clock offset: -0.135 ms  
Remote clock offset: -4.079 ms

# Below is generated by plot.py at 2019-03-19 10:45:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.23 Mbit/s  
95th percentile per-packet one-way delay: 23.572 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 95.23 Mbit/s  
95th percentile per-packet one-way delay: 23.572 ms  
Loss rate: 0.10%

### Run 3: Report of Indigo-MusesC5 — Data Link



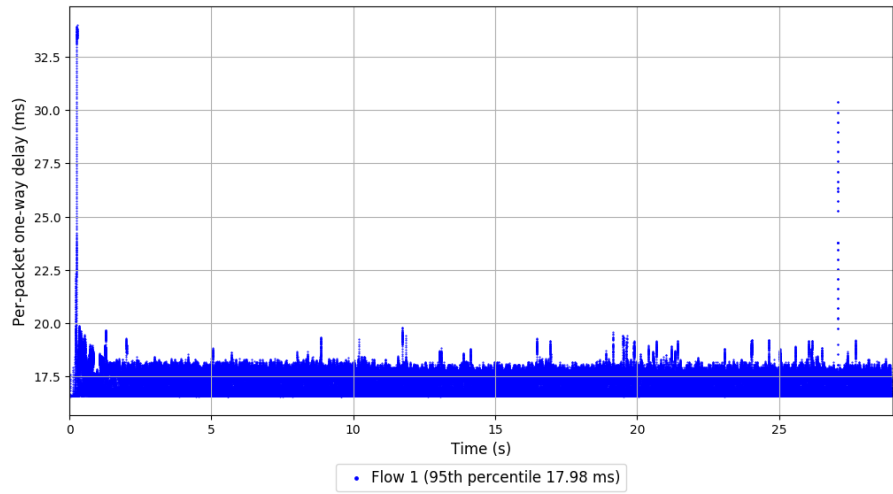
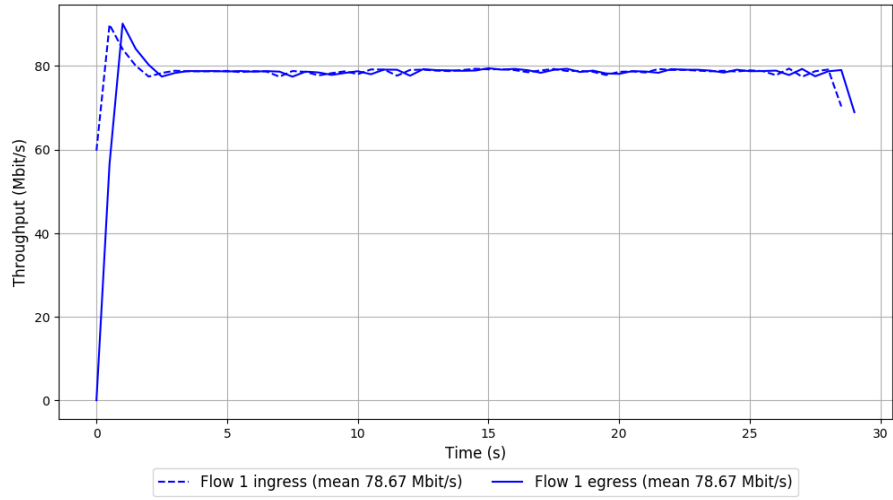


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-03-19 10:11:40  
End at: 2019-03-19 10:12:10  
Local clock offset: 0.964 ms  
Remote clock offset: -2.604 ms

# Below is generated by plot.py at 2019-03-19 10:45:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 78.67 Mbit/s  
95th percentile per-packet one-way delay: 17.982 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 78.67 Mbit/s  
95th percentile per-packet one-way delay: 17.982 ms  
Loss rate: 0.09%

### Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-03-19 10:35:43

End at: 2019-03-19 10:36:13

Local clock offset: 1.663 ms

Remote clock offset: -2.404 ms

# Below is generated by plot.py at 2019-03-19 10:46:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.90 Mbit/s

95th percentile per-packet one-way delay: 24.904 ms

Loss rate: 0.11%

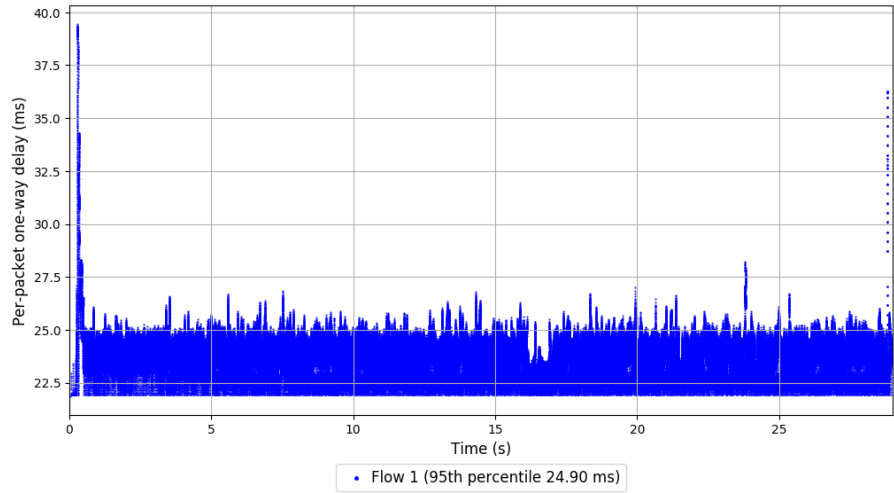
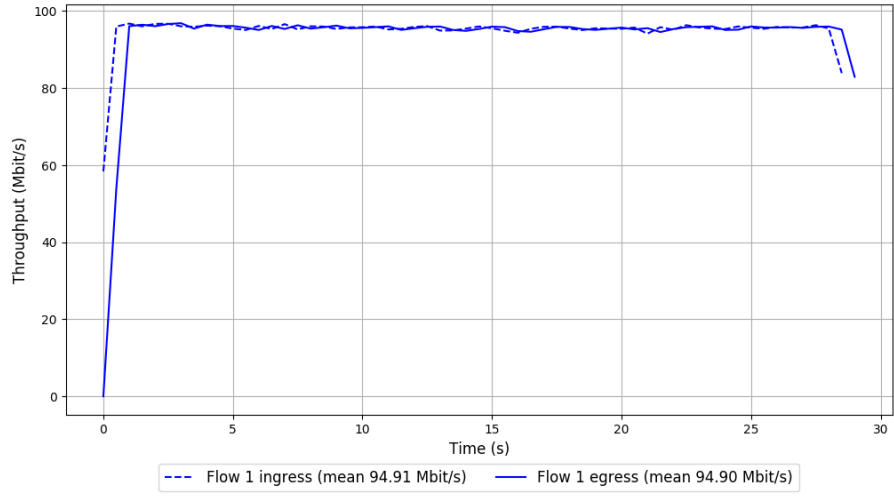
-- Flow 1:

Average throughput: 94.90 Mbit/s

95th percentile per-packet one-way delay: 24.904 ms

Loss rate: 0.11%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-03-19 08:45:46

End at: 2019-03-19 08:46:16

Local clock offset: -0.057 ms

Remote clock offset: -3.568 ms

# Below is generated by plot.py at 2019-03-19 10:46:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.72 Mbit/s

95th percentile per-packet one-way delay: 20.591 ms

Loss rate: 0.10%

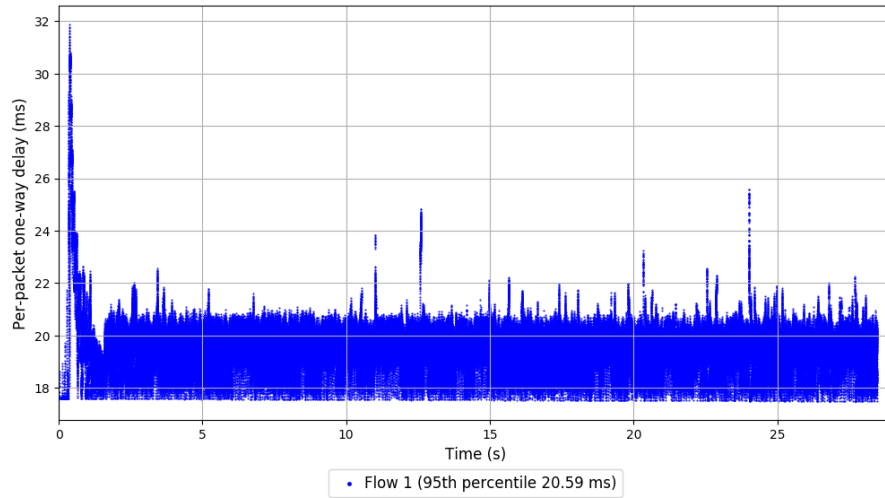
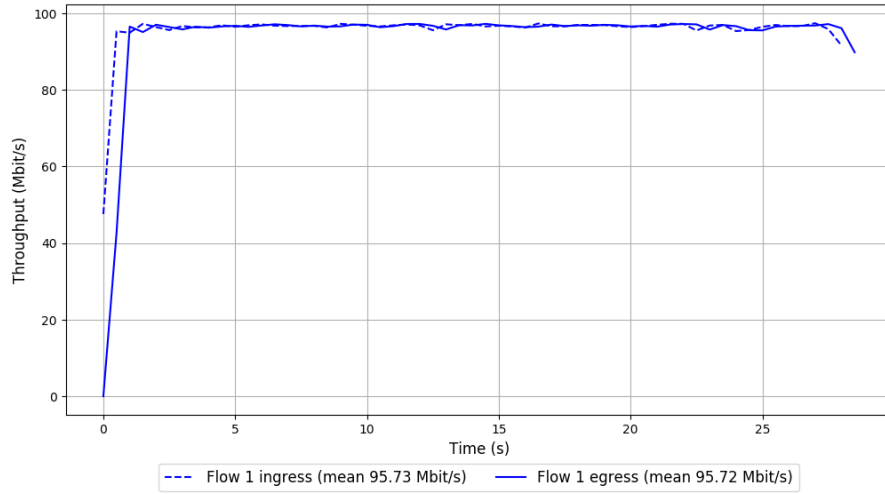
-- Flow 1:

Average throughput: 95.72 Mbit/s

95th percentile per-packet one-way delay: 20.591 ms

Loss rate: 0.10%

### Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-03-19 09:10:34

End at: 2019-03-19 09:11:04

Local clock offset: 2.395 ms

Remote clock offset: -3.762 ms

# Below is generated by plot.py at 2019-03-19 10:46:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.91 Mbit/s

95th percentile per-packet one-way delay: 20.621 ms

Loss rate: 0.08%

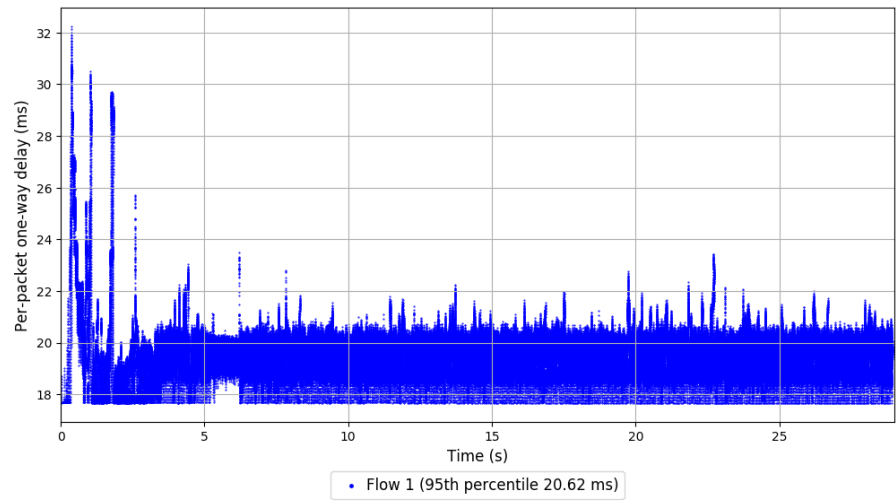
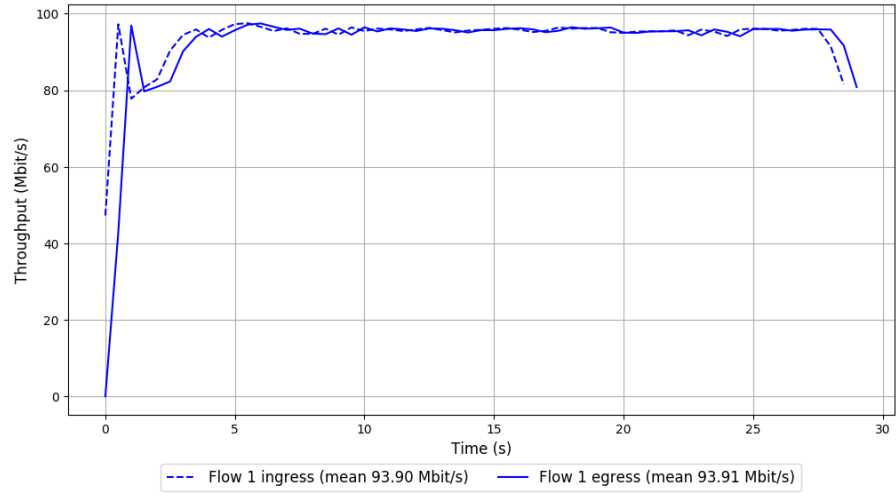
-- Flow 1:

Average throughput: 93.91 Mbit/s

95th percentile per-packet one-way delay: 20.621 ms

Loss rate: 0.08%

## Run 2: Report of Indigo-MusesD — Data Link





Run 3: Statistics of Indigo-MusesD

Start at: 2019-03-19 09:34:52

End at: 2019-03-19 09:35:22

Local clock offset: 0.684 ms

Remote clock offset: -4.445 ms

# Below is generated by plot.py at 2019-03-19 10:46:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.33 Mbit/s

95th percentile per-packet one-way delay: 24.718 ms

Loss rate: 0.10%

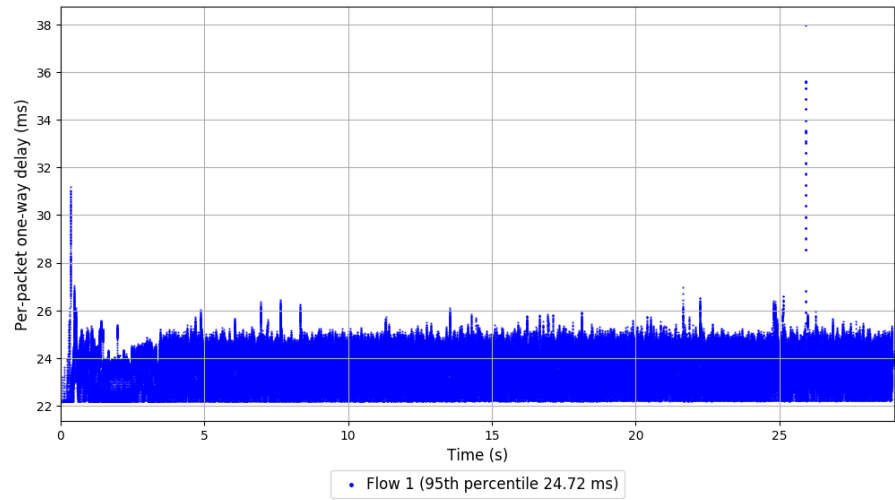
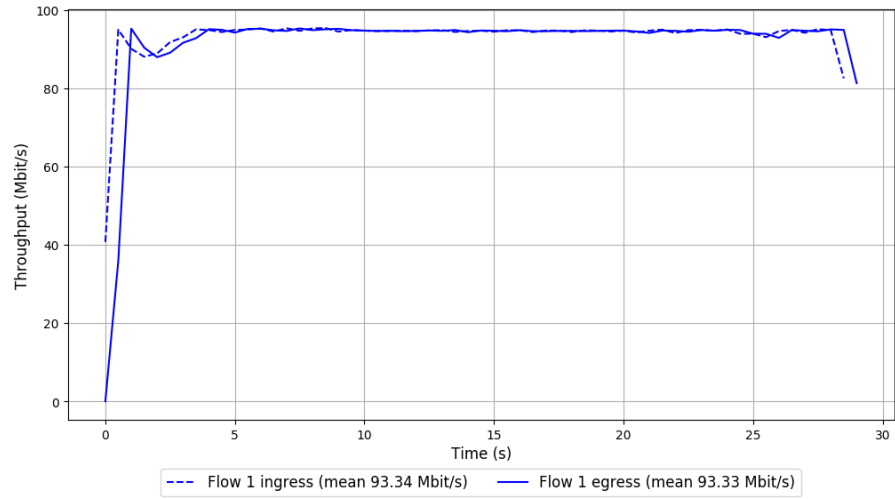
-- Flow 1:

Average throughput: 93.33 Mbit/s

95th percentile per-packet one-way delay: 24.718 ms

Loss rate: 0.10%

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



Run 4: Statistics of Indigo-MusesD

Start at: 2019-03-19 09:59:05

End at: 2019-03-19 09:59:35

Local clock offset: 2.508 ms

Remote clock offset: -4.217 ms

# Below is generated by plot.py at 2019-03-19 10:46:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.52 Mbit/s

95th percentile per-packet one-way delay: 22.713 ms

Loss rate: 0.09%

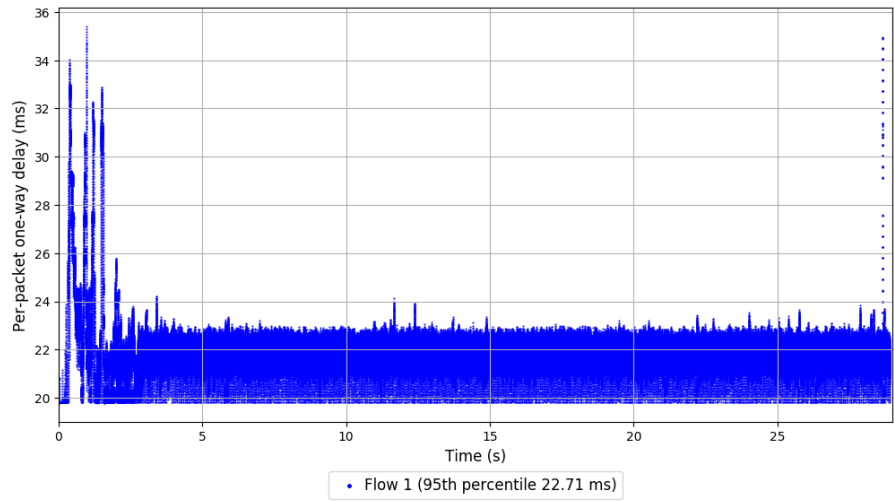
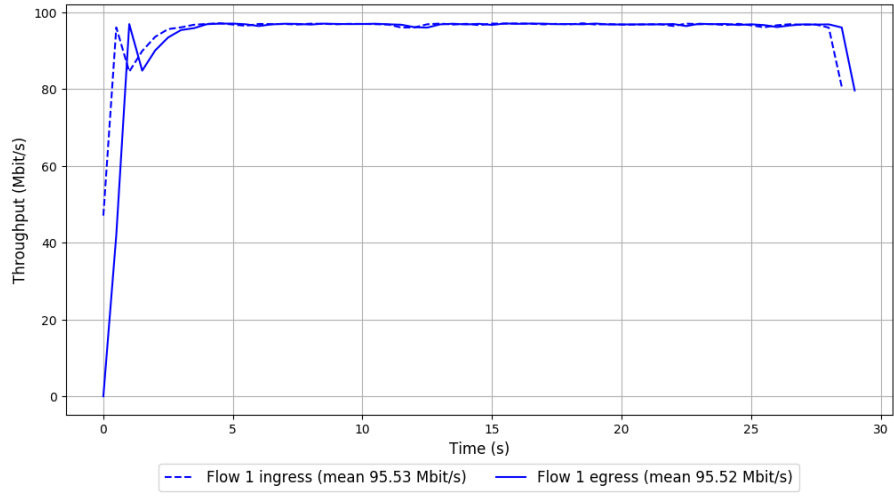
-- Flow 1:

Average throughput: 95.52 Mbit/s

95th percentile per-packet one-way delay: 22.713 ms

Loss rate: 0.09%

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



Run 5: Statistics of Indigo-MusesD

Start at: 2019-03-19 10:23:09

End at: 2019-03-19 10:23:39

Local clock offset: 0.568 ms

Remote clock offset: -4.08 ms

# Below is generated by plot.py at 2019-03-19 10:47:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.51 Mbit/s

95th percentile per-packet one-way delay: 21.729 ms

Loss rate: 0.09%

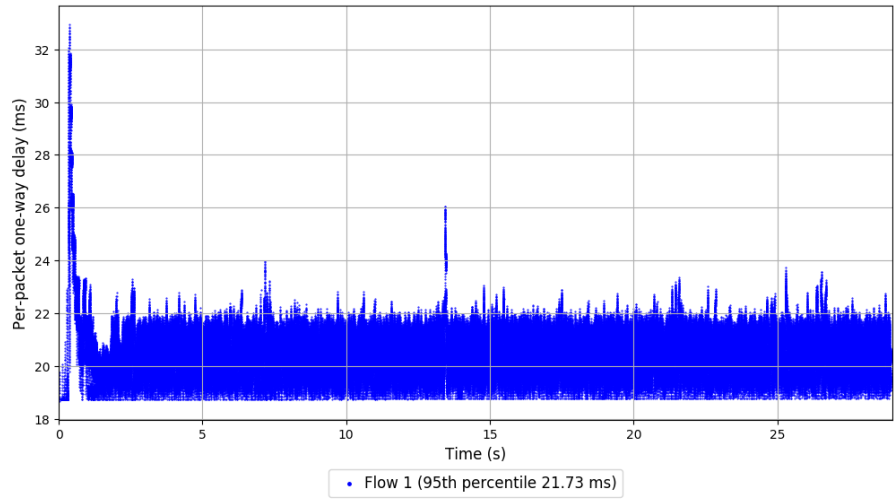
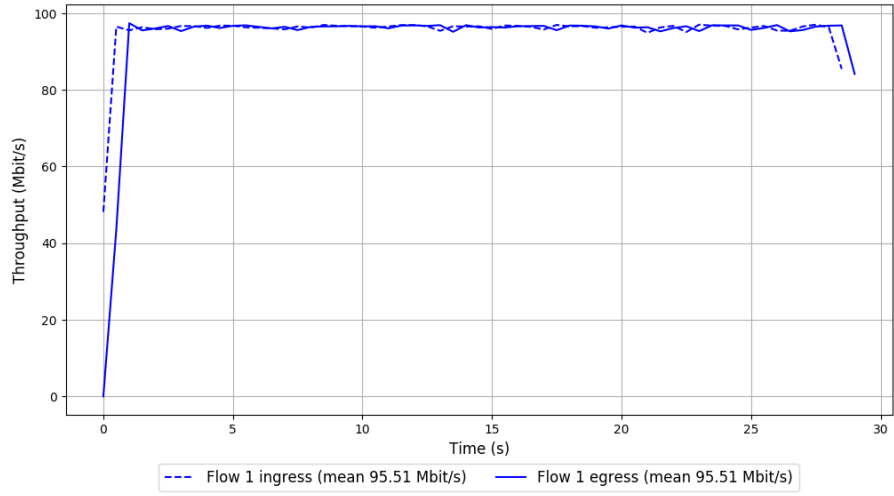
-- Flow 1:

Average throughput: 95.51 Mbit/s

95th percentile per-packet one-way delay: 21.729 ms

Loss rate: 0.09%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MuseST

Start at: 2019-03-19 08:52:49

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

Local clock offset: 0.995 ms

Remote clock offset: -3.391 ms

# Below is generated by plot.py at 2019-03-19 10:47:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.49 Mbit/s

95th percentile per-packet one-way delay: 21.337 ms

Loss rate: 0.10%

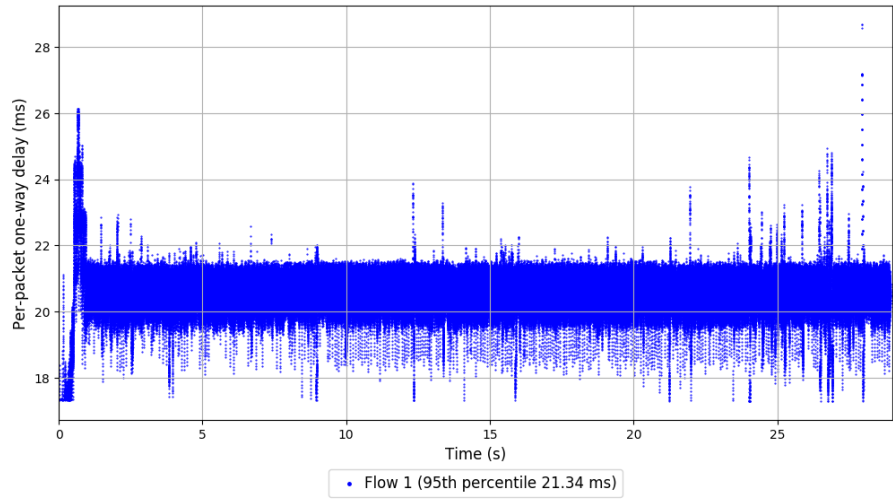
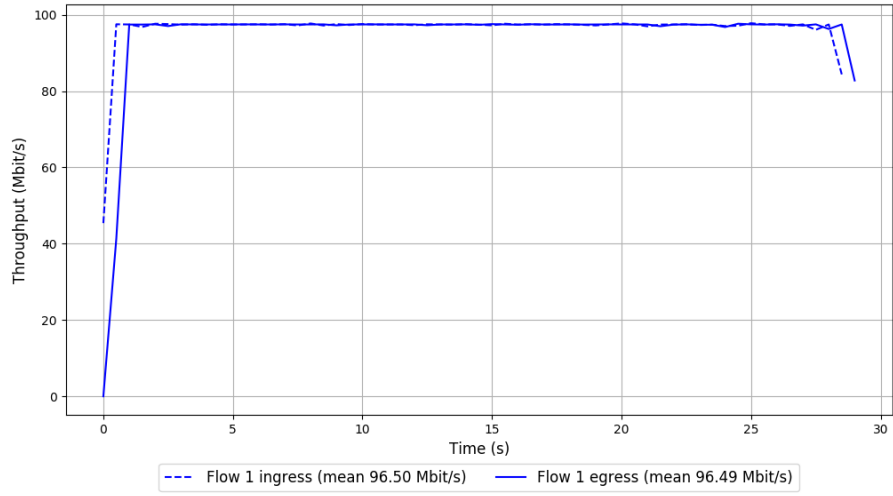
-- Flow 1:

Average throughput: 96.49 Mbit/s

95th percentile per-packet one-way delay: 21.337 ms

Loss rate: 0.10%

# Run 1: Report of Indigo-MusesT — Data Link





Run 2: Statistics of Indigo-MusesT

Start at: 2019-03-19 09:17:21

End at: 2019-03-19 09:17:51

Local clock offset: 2.016 ms

Remote clock offset: -5.244 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.40 Mbit/s

95th percentile per-packet one-way delay: 25.959 ms

Loss rate: 0.11%

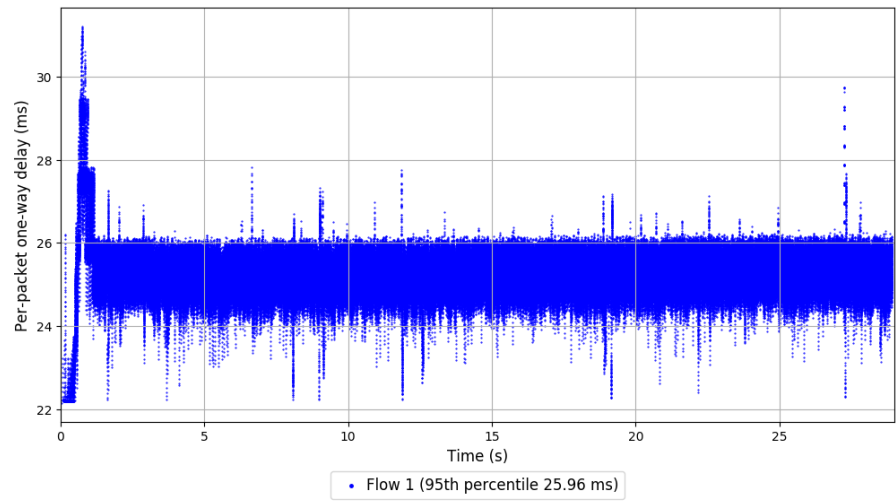
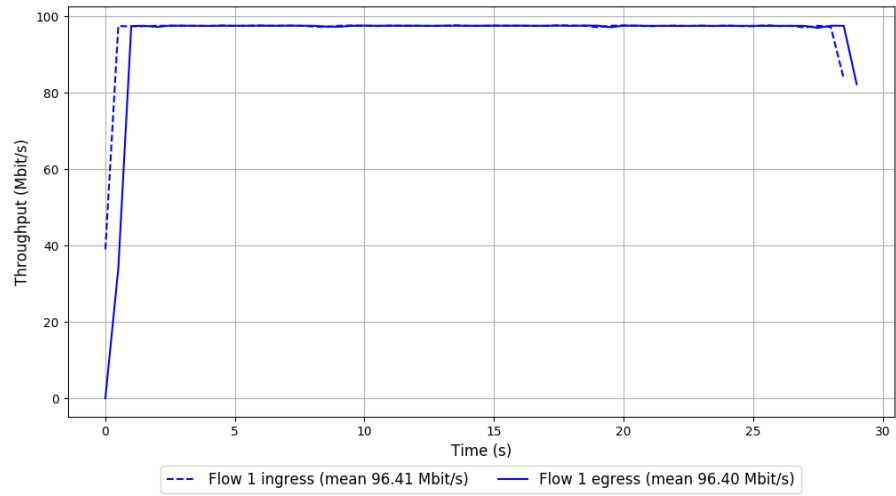
-- Flow 1:

Average throughput: 96.40 Mbit/s

95th percentile per-packet one-way delay: 25.959 ms

Loss rate: 0.11%

## Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MuseST

Start at: 2019-03-19 09:41:39

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

Local clock offset: 0.068 ms

Remote clock offset: -4.956 ms

# Below is generated by plot.py at 2019-03-19 10:47:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.33 Mbit/s

95th percentile per-packet one-way delay: 22.804 ms

Loss rate: 0.10%

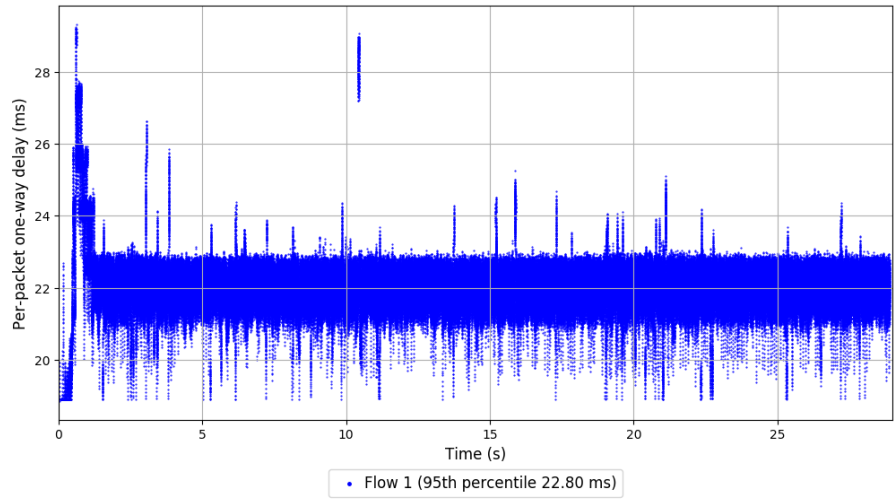
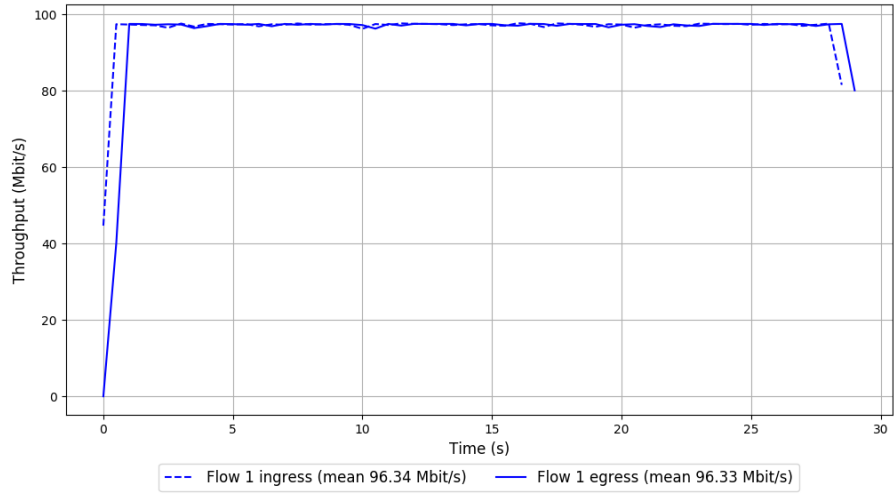
-- Flow 1:

Average throughput: 96.33 Mbit/s

95th percentile per-packet one-way delay: 22.804 ms

Loss rate: 0.10%

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



Run 4: Statistics of Indigo-MuseST

Start at: 2019-03-19 10:05:54

End at: 2019-03-19 10:06:24

Local clock offset: 2.288 ms

Remote clock offset: -3.1 ms

# Below is generated by plot.py at 2019-03-19 10:47:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.30 Mbit/s

95th percentile per-packet one-way delay: 25.430 ms

Loss rate: 0.11%

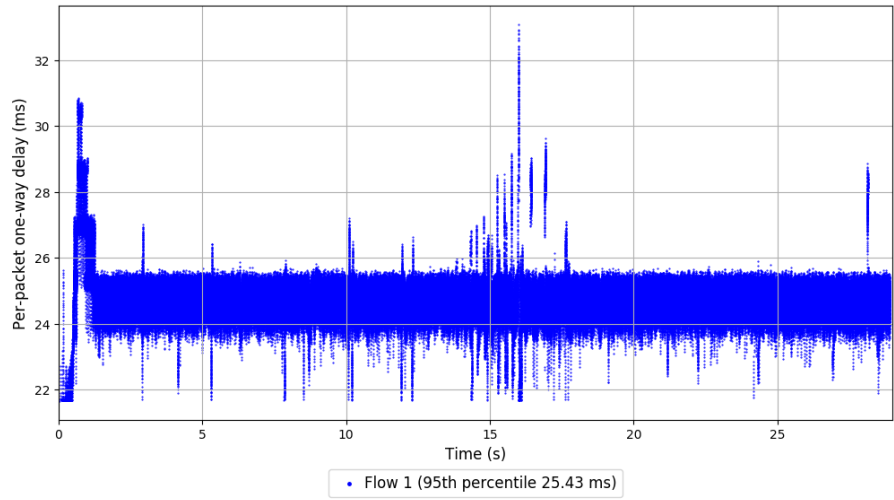
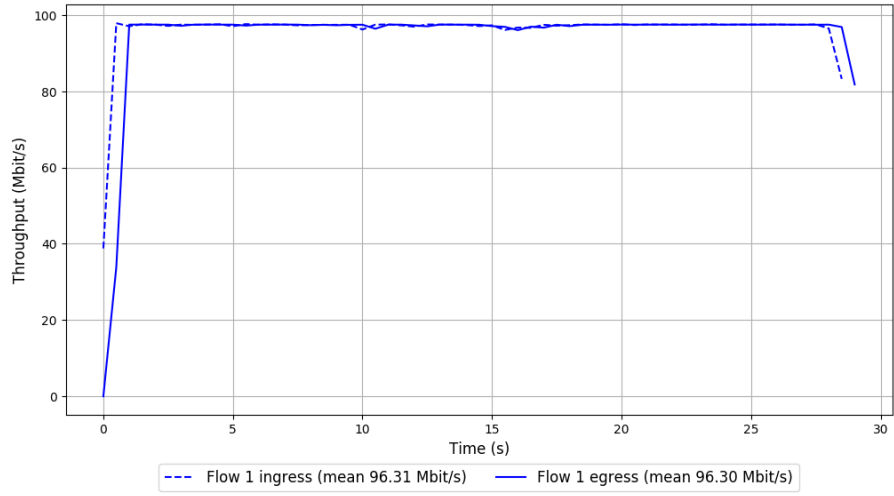
-- Flow 1:

Average throughput: 96.30 Mbit/s

95th percentile per-packet one-way delay: 25.430 ms

Loss rate: 0.11%

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



Run 5: Statistics of Indigo-MuseST

Start at: 2019-03-19 10:29:56

End at: 2019-03-19 10:30:26

Local clock offset: 0.511 ms

Remote clock offset: -3.258 ms

# Below is generated by plot.py at 2019-03-19 10:47:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.44 Mbit/s

95th percentile per-packet one-way delay: 22.222 ms

Loss rate: 0.10%

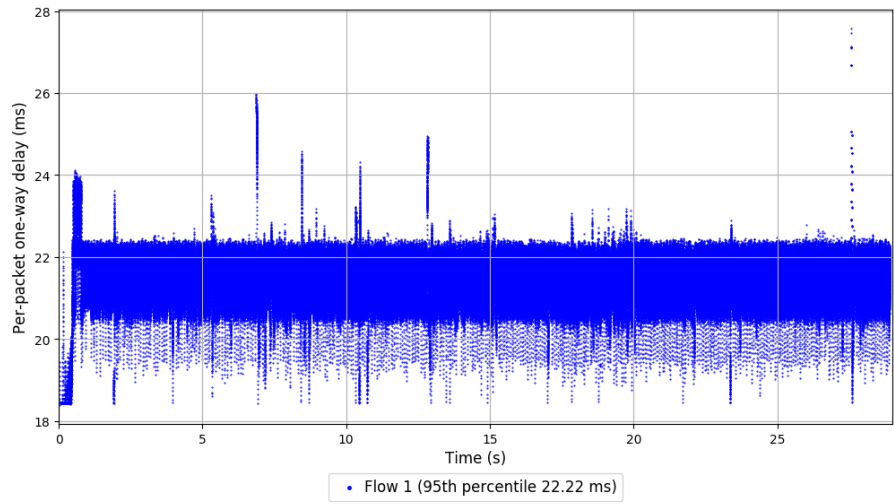
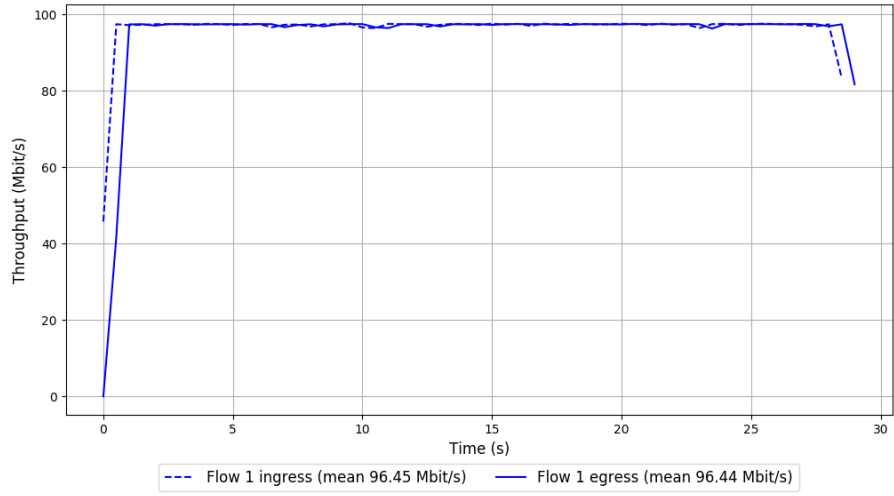
-- Flow 1:

Average throughput: 96.44 Mbit/s

95th percentile per-packet one-way delay: 22.222 ms

Loss rate: 0.10%

Run 5: Report of Indigo-MusesT — Data Link





Run 1: Statistics of LEDBAT

Start at: 2019-03-19 08:46:59

End at: 2019-03-19 08:47:29

Local clock offset: 1.558 ms

Remote clock offset: -3.496 ms

# Below is generated by plot.py at 2019-03-19 10:47:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.02 Mbit/s

95th percentile per-packet one-way delay: 26.256 ms

Loss rate: 0.08%

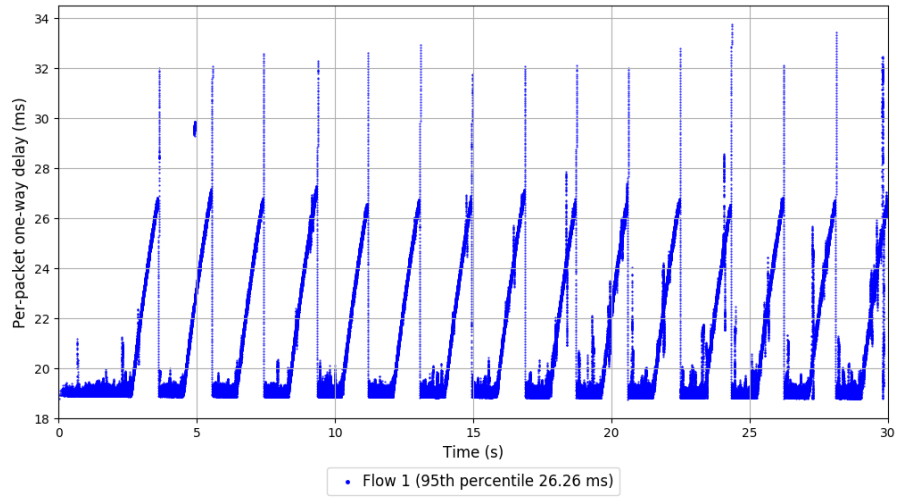
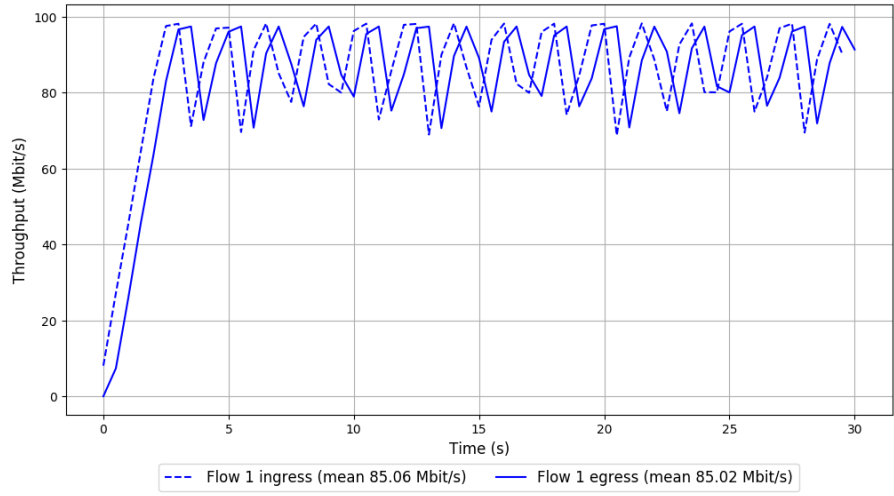
-- Flow 1:

Average throughput: 85.02 Mbit/s

95th percentile per-packet one-way delay: 26.256 ms

Loss rate: 0.08%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-03-19 09:11:43

End at: 2019-03-19 09:12:13

Local clock offset: 2.347 ms

Remote clock offset: -5.742 ms

# Below is generated by plot.py at 2019-03-19 10:47:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.28 Mbit/s

95th percentile per-packet one-way delay: 30.380 ms

Loss rate: 0.14%

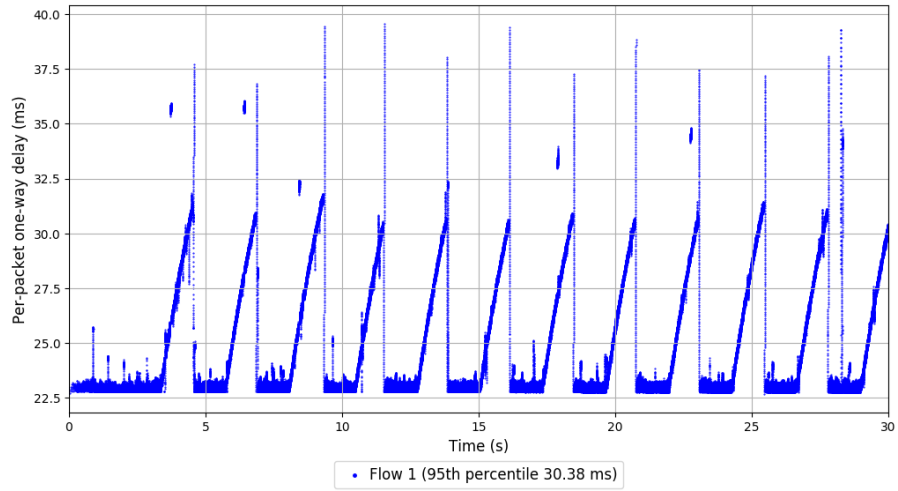
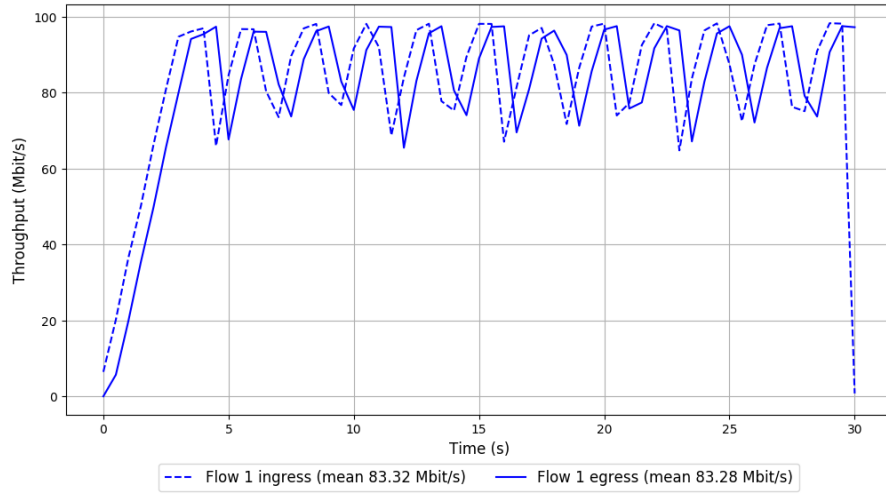
-- Flow 1:

Average throughput: 83.28 Mbit/s

95th percentile per-packet one-way delay: 30.380 ms

Loss rate: 0.14%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-03-19 09:36:01

End at: 2019-03-19 09:36:31

Local clock offset: 0.22 ms

Remote clock offset: -4.28 ms

# Below is generated by plot.py at 2019-03-19 10:48:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.88 Mbit/s

95th percentile per-packet one-way delay: 25.709 ms

Loss rate: 0.12%

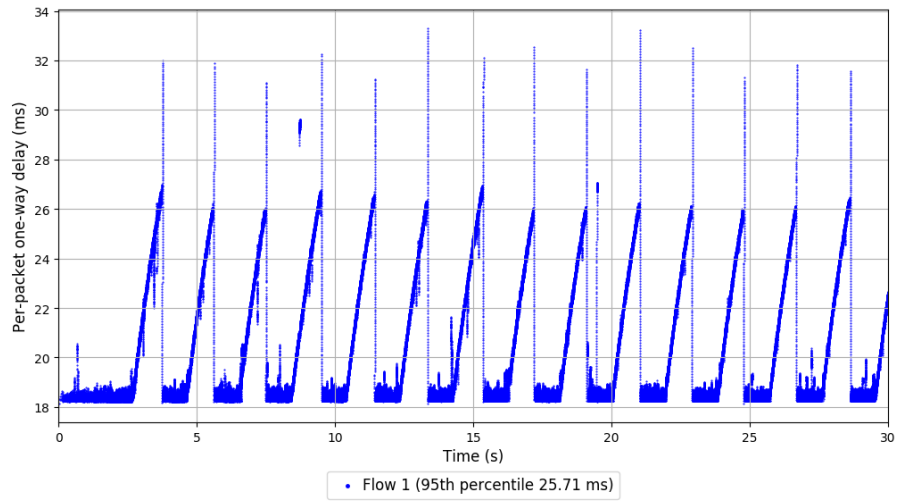
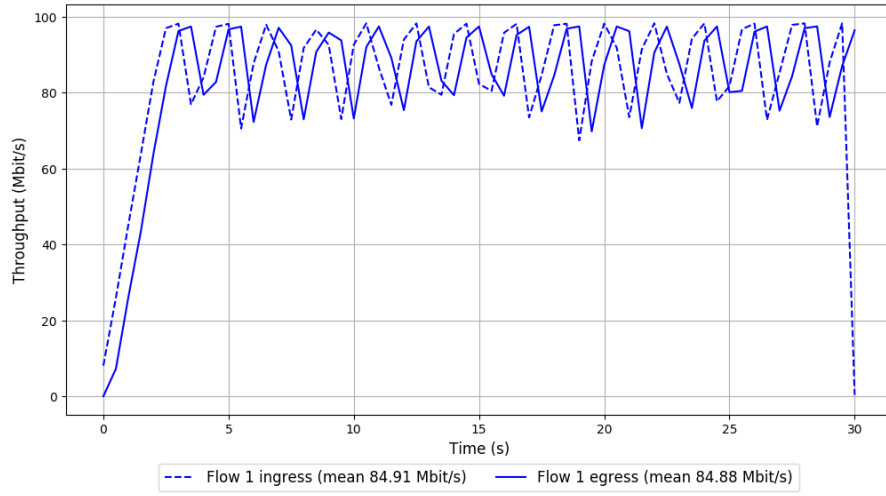
-- Flow 1:

Average throughput: 84.88 Mbit/s

95th percentile per-packet one-way delay: 25.709 ms

Loss rate: 0.12%

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

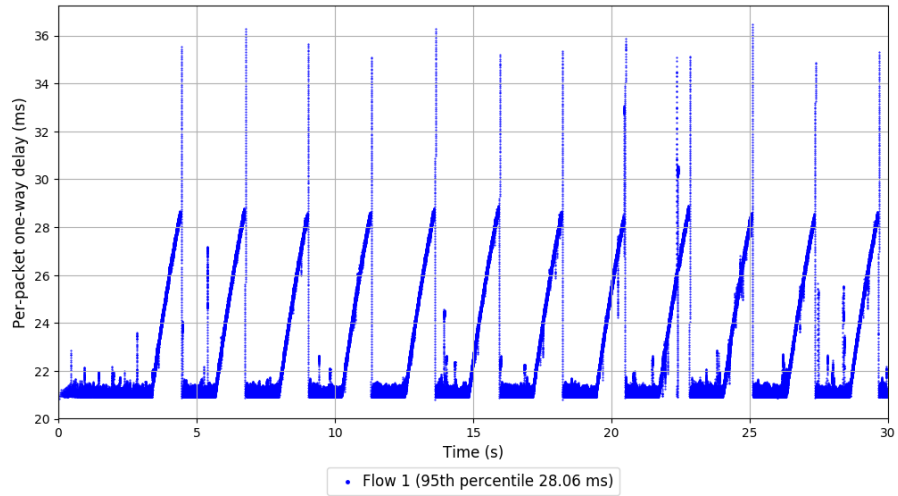
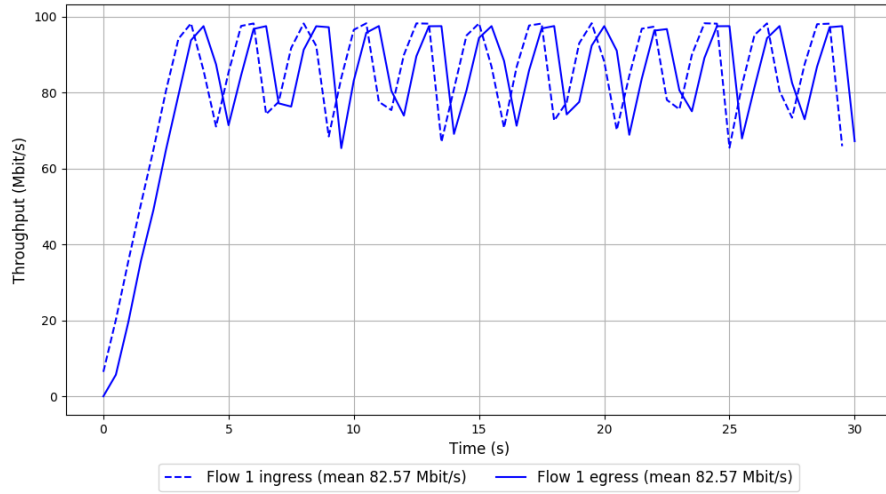


Run 4: Statistics of LEDBAT

Start at: 2019-03-19 10:00:14  
End at: 2019-03-19 10:00:44  
Local clock offset: 0.258 ms  
Remote clock offset: -4.349 ms

# Below is generated by plot.py at 2019-03-19 10:48:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 82.57 Mbit/s  
95th percentile per-packet one-way delay: 28.062 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 82.57 Mbit/s  
95th percentile per-packet one-way delay: 28.062 ms  
Loss rate: 0.09%

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





Run 5: Statistics of LEDBAT

Start at: 2019-03-19 10:24:18

End at: 2019-03-19 10:24:48

Local clock offset: 0.412 ms

Remote clock offset: -3.294 ms

# Below is generated by plot.py at 2019-03-19 10:48:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.33 Mbit/s

95th percentile per-packet one-way delay: 25.349 ms

Loss rate: 0.13%

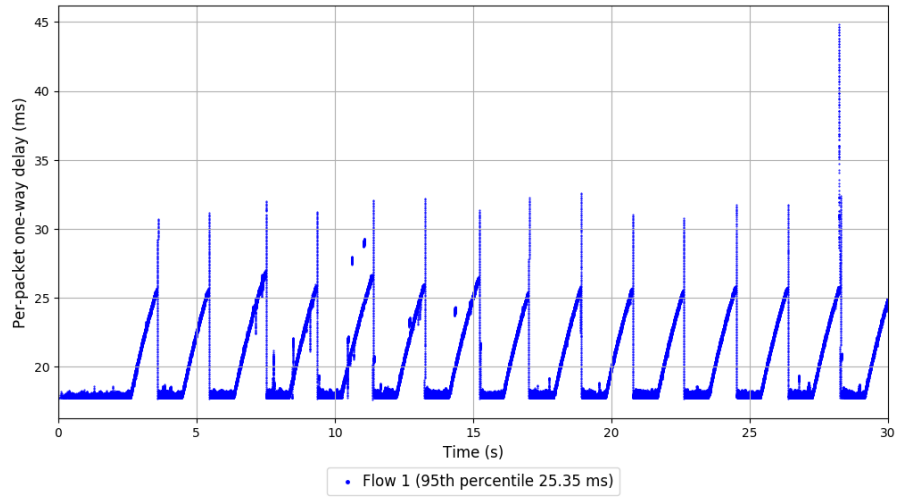
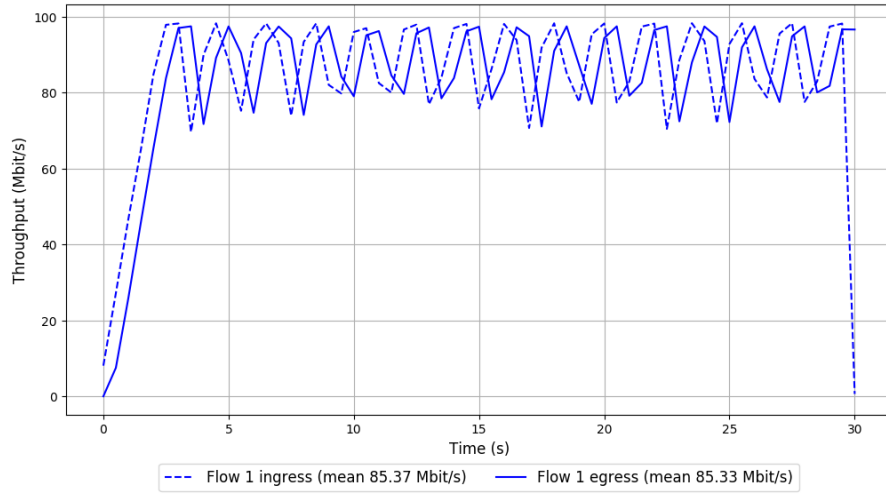
-- Flow 1:

Average throughput: 85.33 Mbit/s

95th percentile per-packet one-way delay: 25.349 ms

Loss rate: 0.13%

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



Run 1: Statistics of PCC-Allegro

Start at: 2019-03-19 08:37:21

End at: 2019-03-19 08:37:51

Local clock offset: 0.345 ms

Remote clock offset: -2.984 ms

# Below is generated by plot.py at 2019-03-19 10:48:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.54 Mbit/s

95th percentile per-packet one-way delay: 20.023 ms

Loss rate: 0.10%

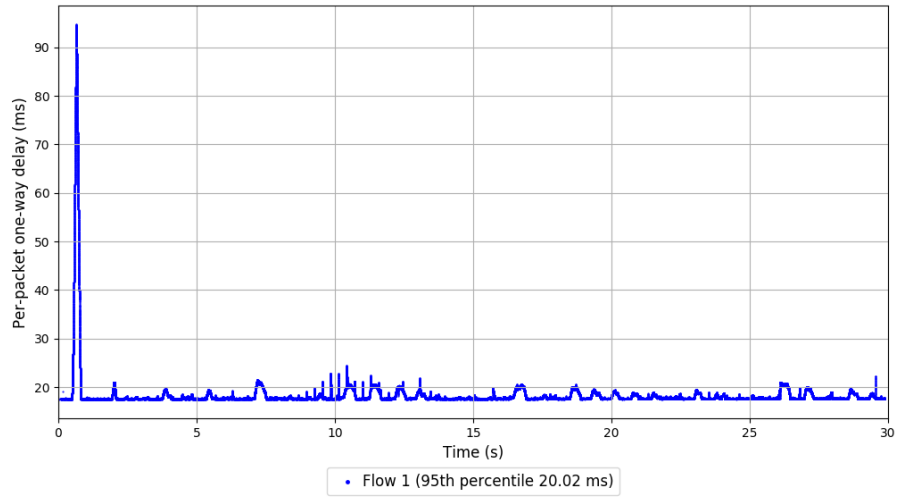
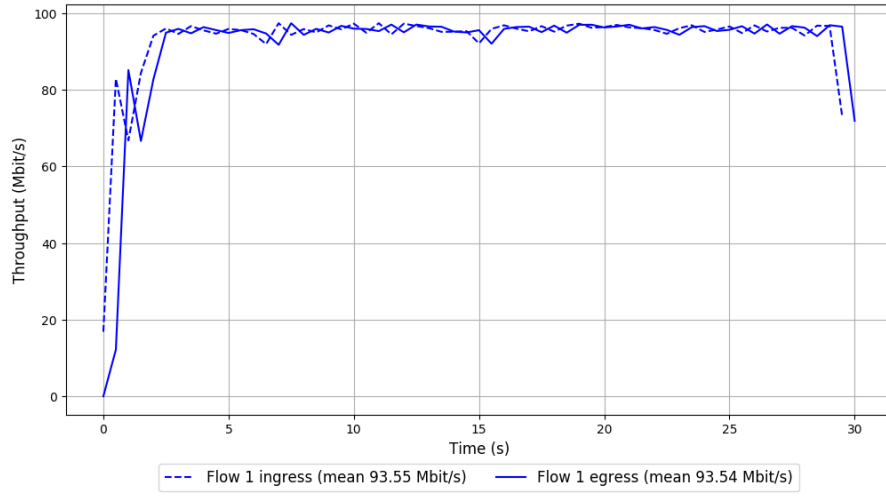
-- Flow 1:

Average throughput: 93.54 Mbit/s

95th percentile per-packet one-way delay: 20.023 ms

Loss rate: 0.10%

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



Run 2: Statistics of PCC-Allegro

Start at: 2019-03-19 09:02:25

End at: 2019-03-19 09:02:55

Local clock offset: 4.17 ms

Remote clock offset: -4.286 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.96 Mbit/s

95th percentile per-packet one-way delay: 22.966 ms

Loss rate: 0.08%

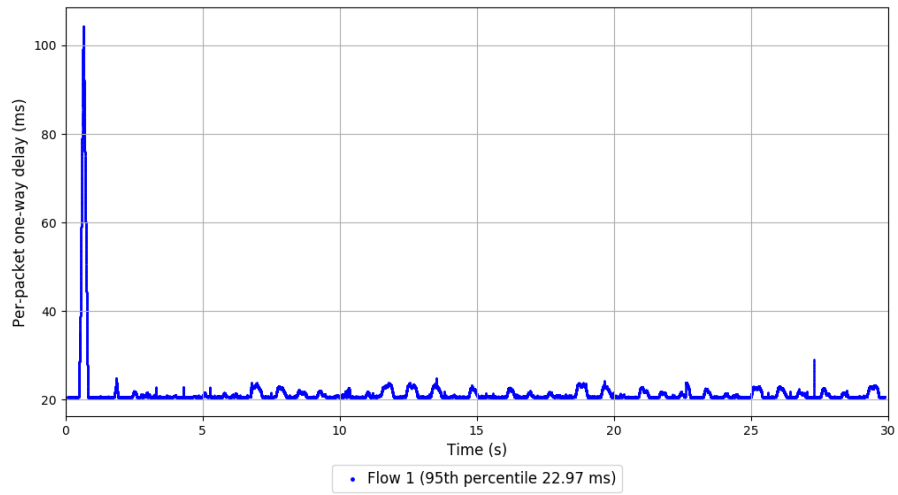
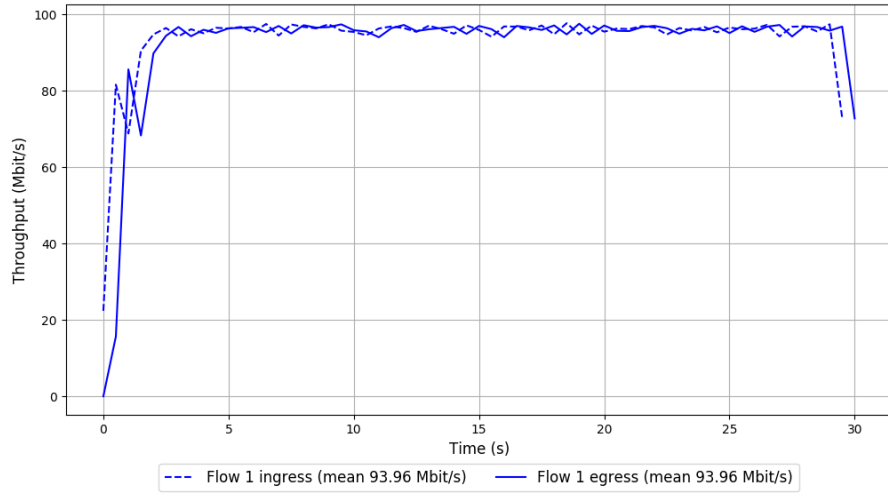
-- Flow 1:

Average throughput: 93.96 Mbit/s

95th percentile per-packet one-way delay: 22.966 ms

Loss rate: 0.08%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-03-19 09:26:48

End at: 2019-03-19 09:27:18

Local clock offset: 2.832 ms

Remote clock offset: -3.29 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.92 Mbit/s

95th percentile per-packet one-way delay: 21.564 ms

Loss rate: 0.09%

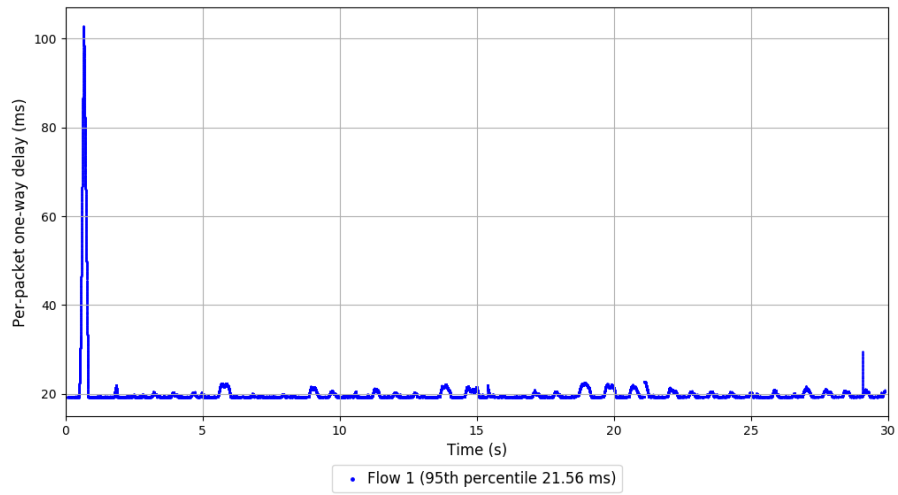
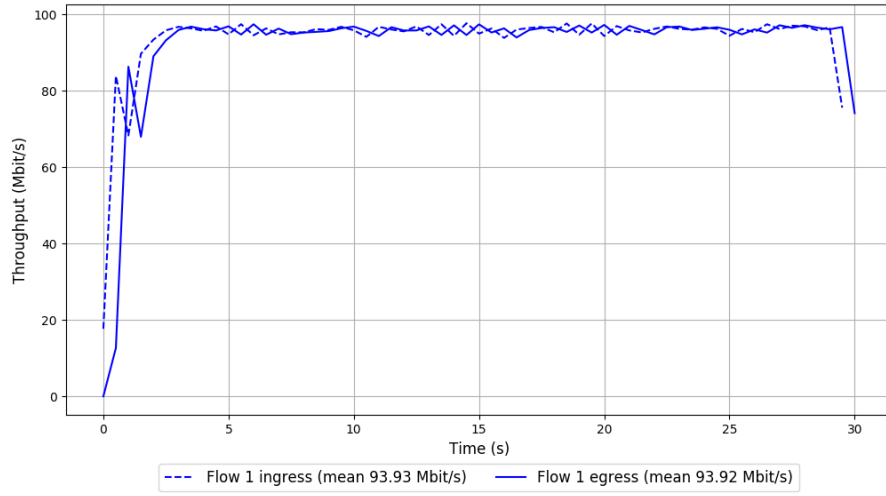
-- Flow 1:

Average throughput: 93.92 Mbit/s

95th percentile per-packet one-way delay: 21.564 ms

Loss rate: 0.09%

### Run 3: Report of PCC-Allegro — Data Link





Run 4: Statistics of PCC-Allegro

Start at: 2019-03-19 09:51:00

End at: 2019-03-19 09:51:30

Local clock offset: 0.349 ms

Remote clock offset: -4.906 ms

# Below is generated by plot.py at 2019-03-19 10:48:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.15 Mbit/s

95th percentile per-packet one-way delay: 23.154 ms

Loss rate: 0.09%

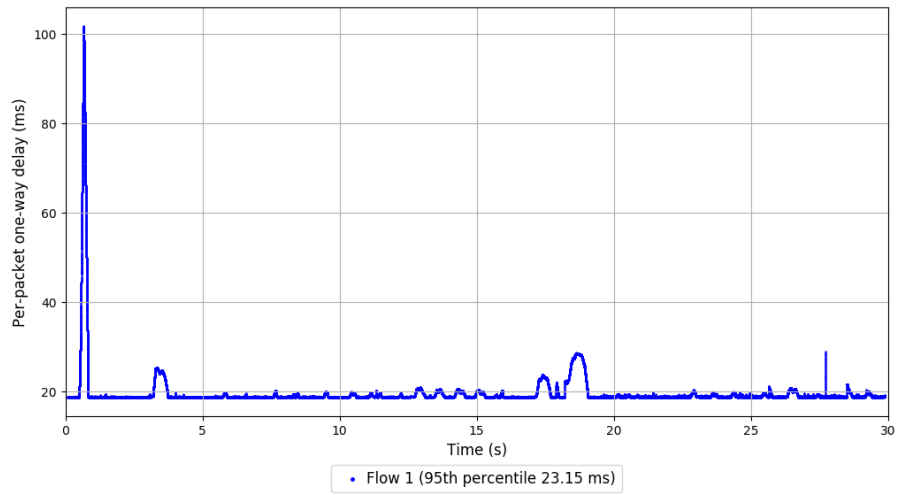
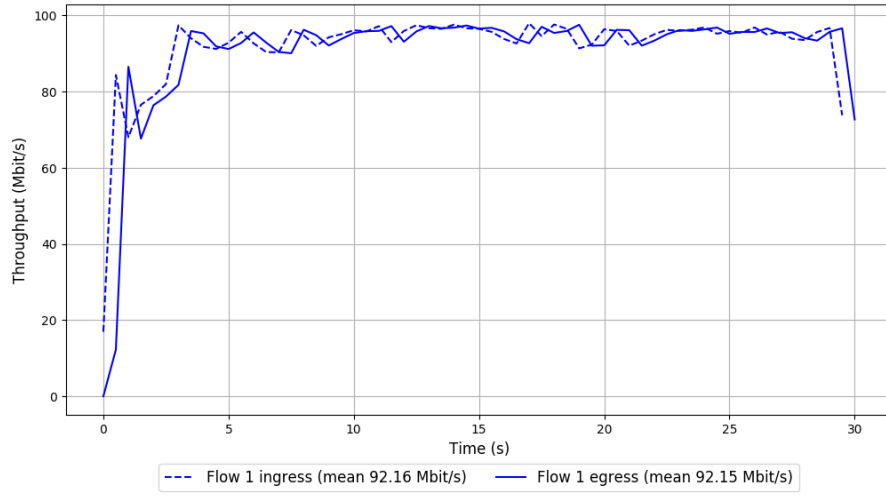
-- Flow 1:

Average throughput: 92.15 Mbit/s

95th percentile per-packet one-way delay: 23.154 ms

Loss rate: 0.09%

#### Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-03-19 10:15:08

End at: 2019-03-19 10:15:38

Local clock offset: 2.487 ms

Remote clock offset: -3.717 ms

# Below is generated by plot.py at 2019-03-19 10:48:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.10 Mbit/s

95th percentile per-packet one-way delay: 24.791 ms

Loss rate: 0.11%

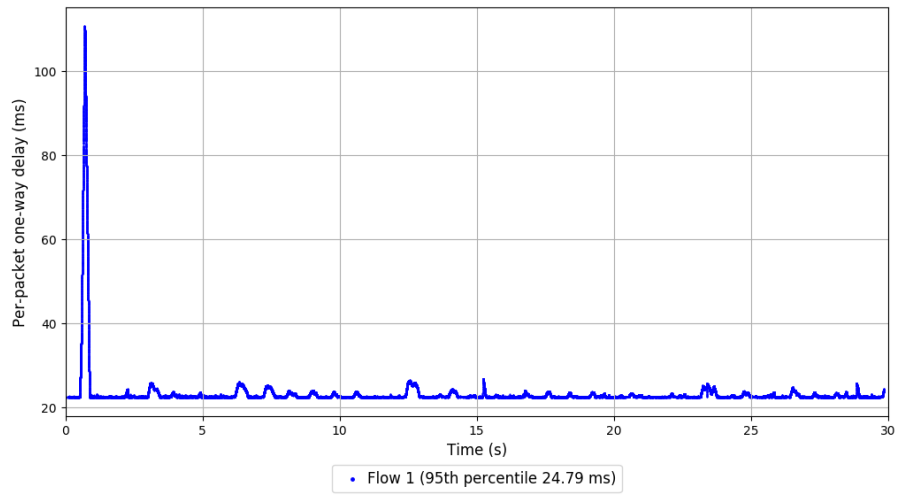
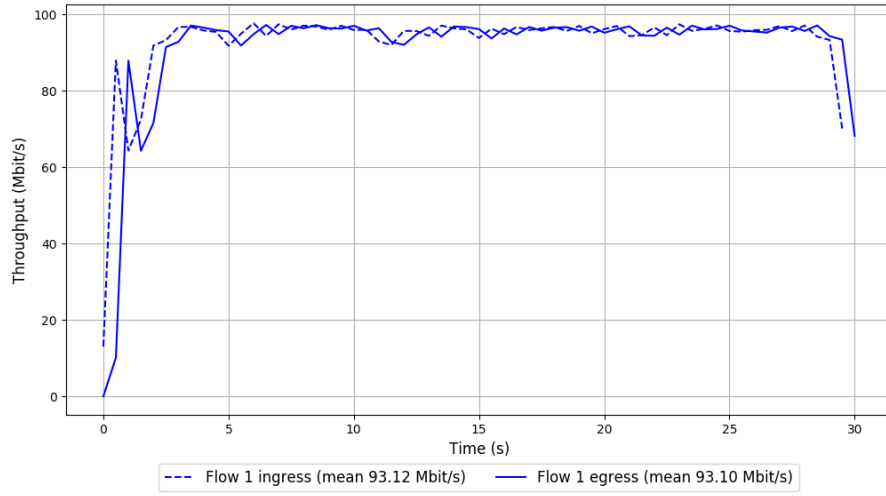
-- Flow 1:

Average throughput: 93.10 Mbit/s

95th percentile per-packet one-way delay: 24.791 ms

Loss rate: 0.11%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-03-19 08:36:09

End at: 2019-03-19 08:36:39

Local clock offset: 0.772 ms

Remote clock offset: -3.909 ms

# Below is generated by plot.py at 2019-03-19 10:49:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.94 Mbit/s

95th percentile per-packet one-way delay: 40.835 ms

Loss rate: 0.11%

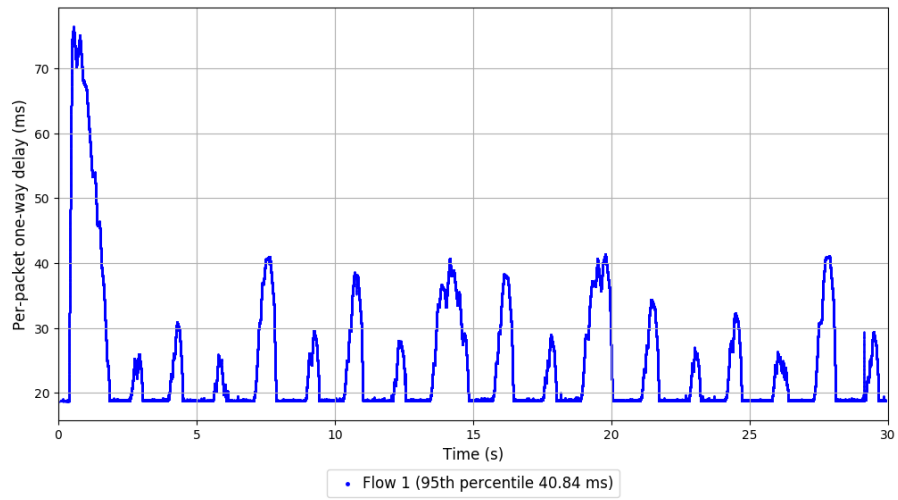
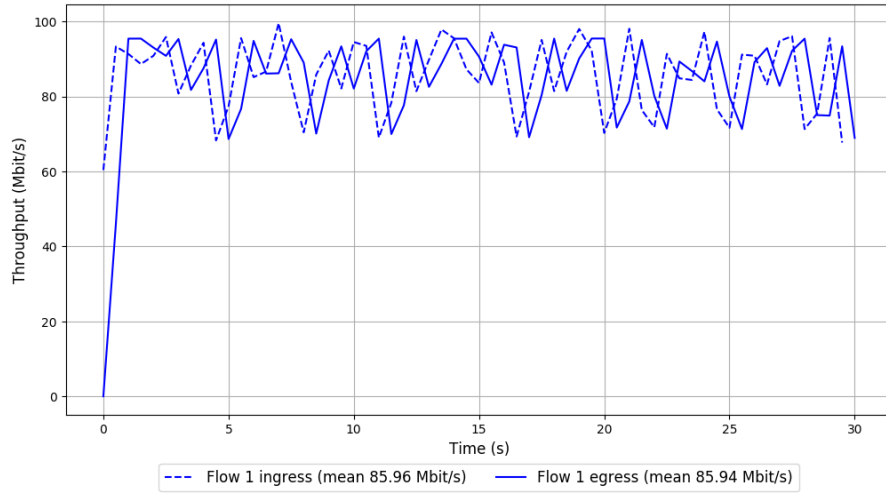
-- Flow 1:

Average throughput: 85.94 Mbit/s

95th percentile per-packet one-way delay: 40.835 ms

Loss rate: 0.11%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-03-19 09:01:12

End at: 2019-03-19 09:01:42

Local clock offset: 3.741 ms

Remote clock offset: -3.625 ms

# Below is generated by plot.py at 2019-03-19 10:49:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.02 Mbit/s

95th percentile per-packet one-way delay: 158.666 ms

Loss rate: 0.15%

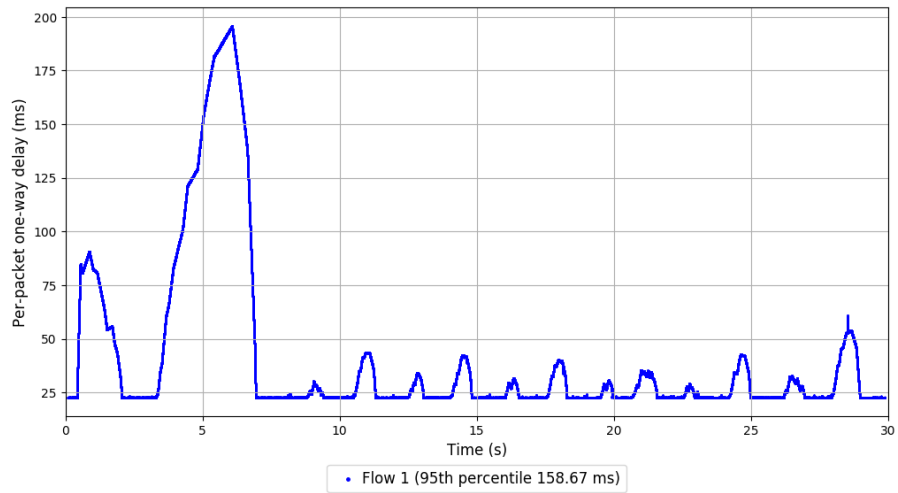
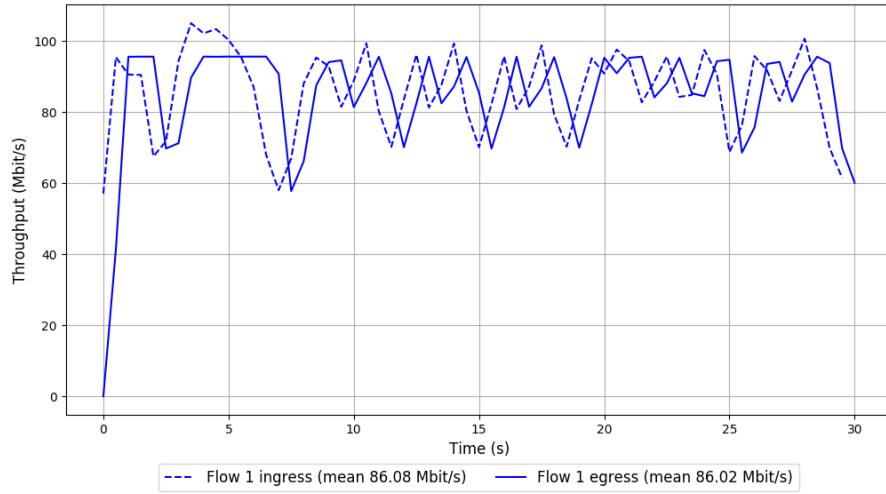
-- Flow 1:

Average throughput: 86.02 Mbit/s

95th percentile per-packet one-way delay: 158.666 ms

Loss rate: 0.15%

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





Run 3: Statistics of PCC-Expr

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

End at: 2019-03-19 09:26:06

Local clock offset: 1.803 ms

Remote clock offset: -3.819 ms

# Below is generated by plot.py at 2019-03-19 10:49:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.39 Mbit/s

95th percentile per-packet one-way delay: 134.654 ms

Loss rate: 0.30%

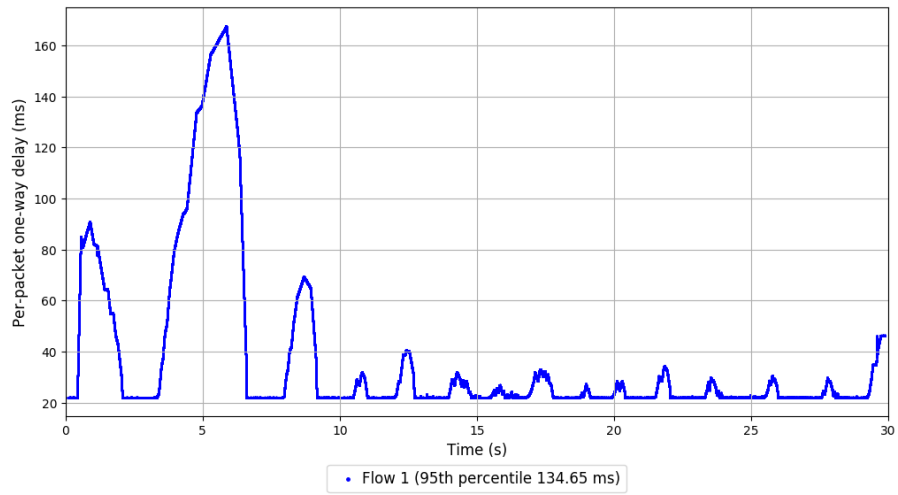
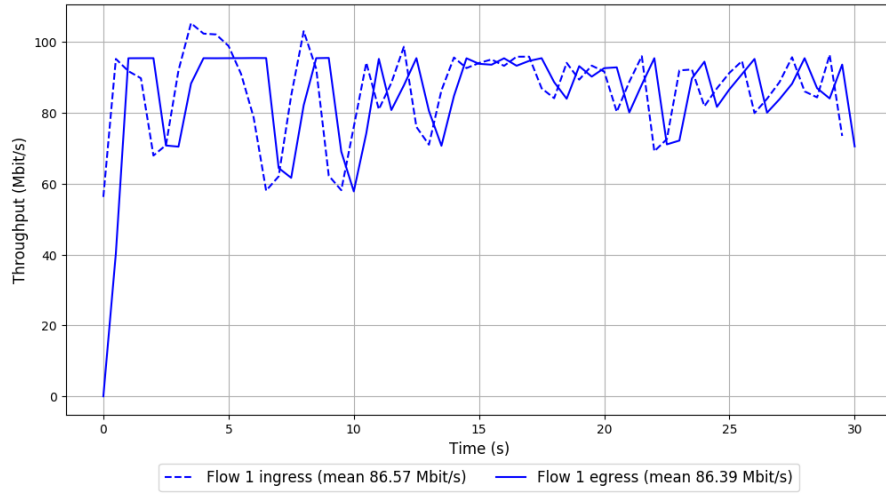
-- Flow 1:

Average throughput: 86.39 Mbit/s

95th percentile per-packet one-way delay: 134.654 ms

Loss rate: 0.30%

### Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-03-19 09:49:47

End at: 2019-03-19 09:50:17

Local clock offset: 1.394 ms

Remote clock offset: -3.912 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.53 Mbit/s

95th percentile per-packet one-way delay: 43.076 ms

Loss rate: 0.13%

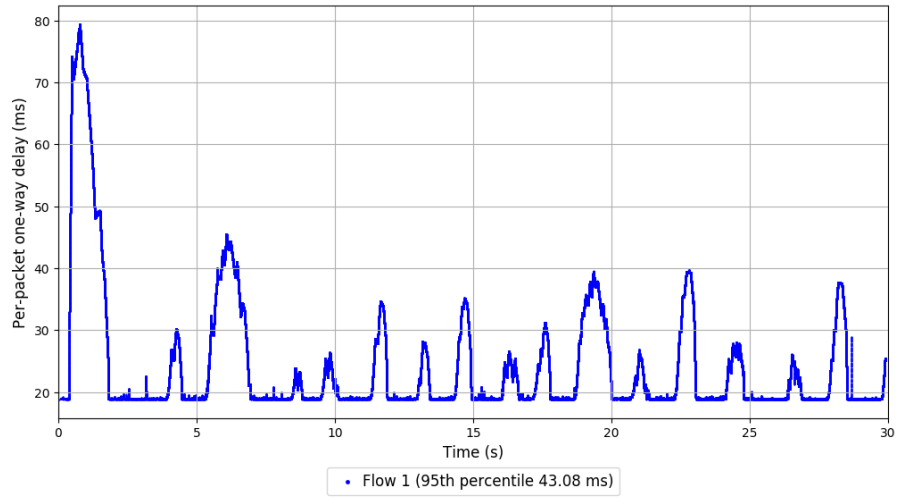
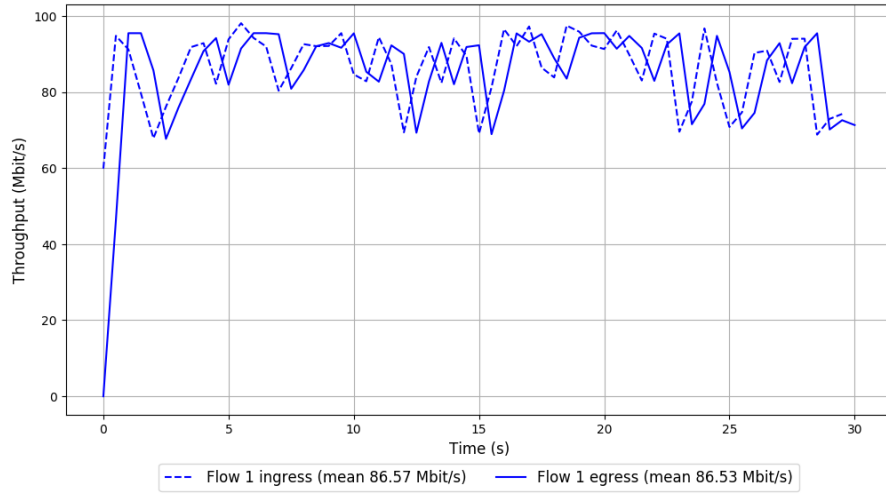
-- Flow 1:

Average throughput: 86.53 Mbit/s

95th percentile per-packet one-way delay: 43.076 ms

Loss rate: 0.13%

### Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-03-19 10:13:56

End at: 2019-03-19 10:14:26

Local clock offset: 2.009 ms

Remote clock offset: -3.827 ms

# Below is generated by plot.py at 2019-03-19 10:50:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.06 Mbit/s

95th percentile per-packet one-way delay: 41.276 ms

Loss rate: 0.15%

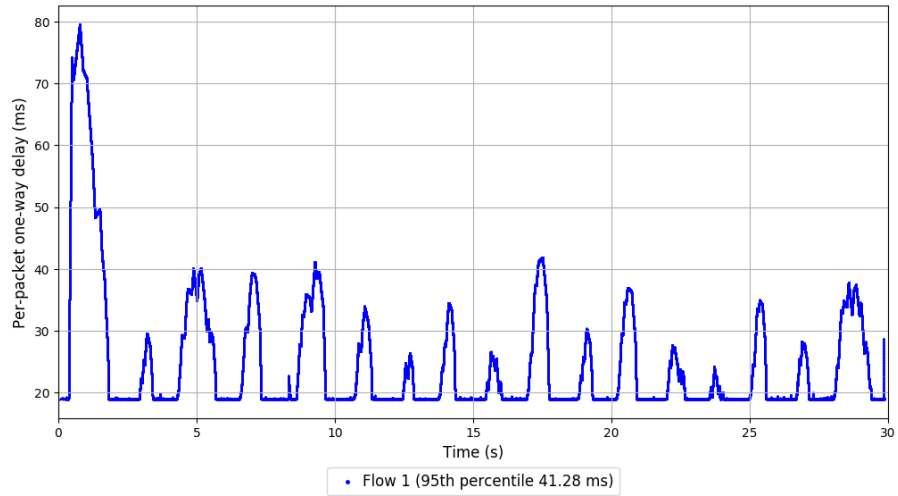
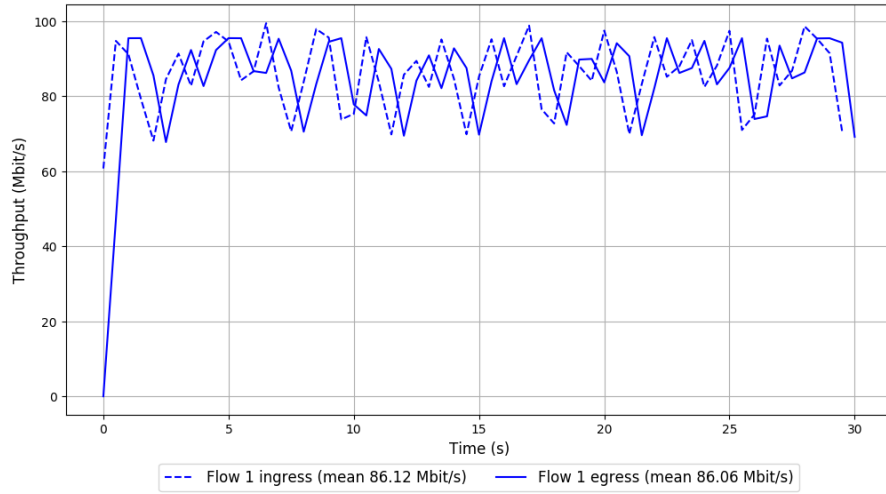
-- Flow 1:

Average throughput: 86.06 Mbit/s

95th percentile per-packet one-way delay: 41.276 ms

Loss rate: 0.15%

### Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-03-19 08:57:44

End at: 2019-03-19 08:58:14

Local clock offset: 2.223 ms

Remote clock offset: -3.894 ms

# Below is generated by plot.py at 2019-03-19 10:50:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.10 Mbit/s

95th percentile per-packet one-way delay: 25.952 ms

Loss rate: 0.12%

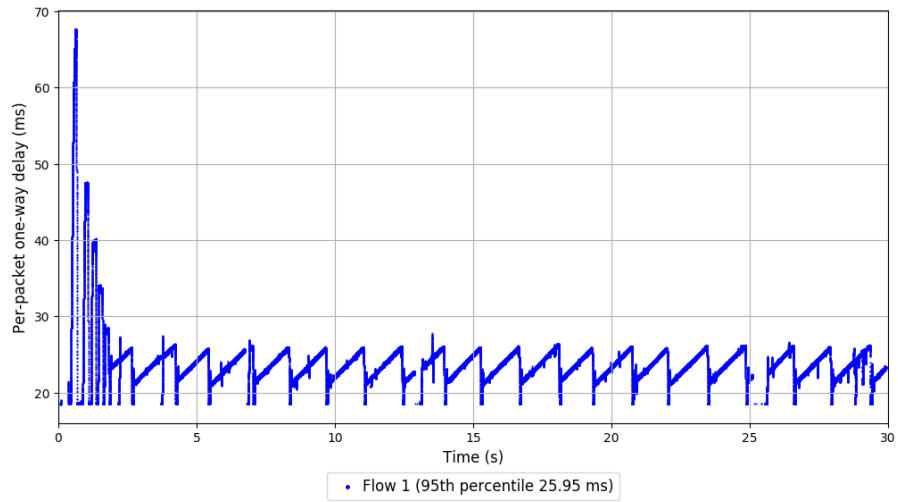
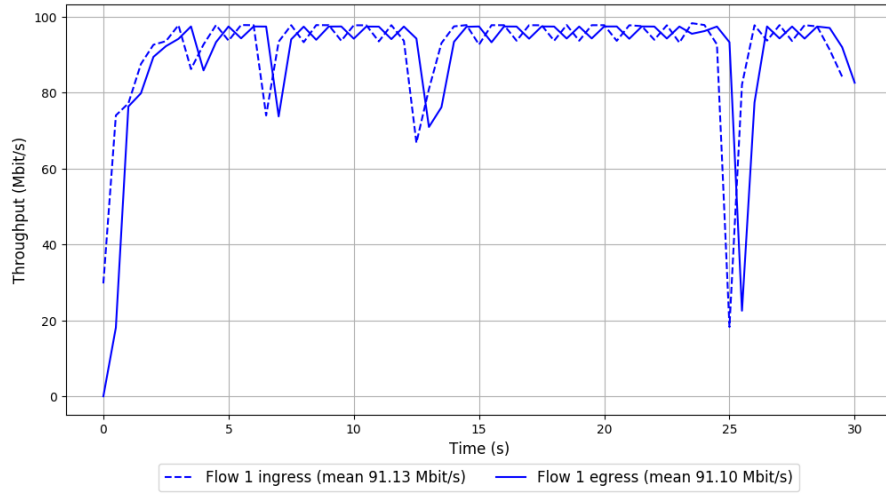
-- Flow 1:

Average throughput: 91.10 Mbit/s

95th percentile per-packet one-way delay: 25.952 ms

Loss rate: 0.12%

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





Run 2: Statistics of QUIC Cubic

Start at: 2019-03-19 09:22:04

End at: 2019-03-19 09:22:34

Local clock offset: 1.991 ms

Remote clock offset: -4.781 ms

# Below is generated by plot.py at 2019-03-19 10:50:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.67 Mbit/s

95th percentile per-packet one-way delay: 27.333 ms

Loss rate: 0.13%

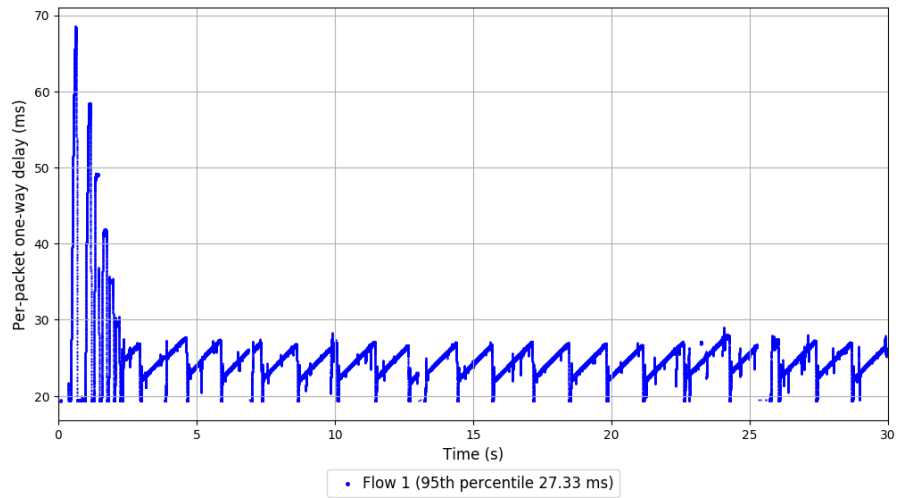
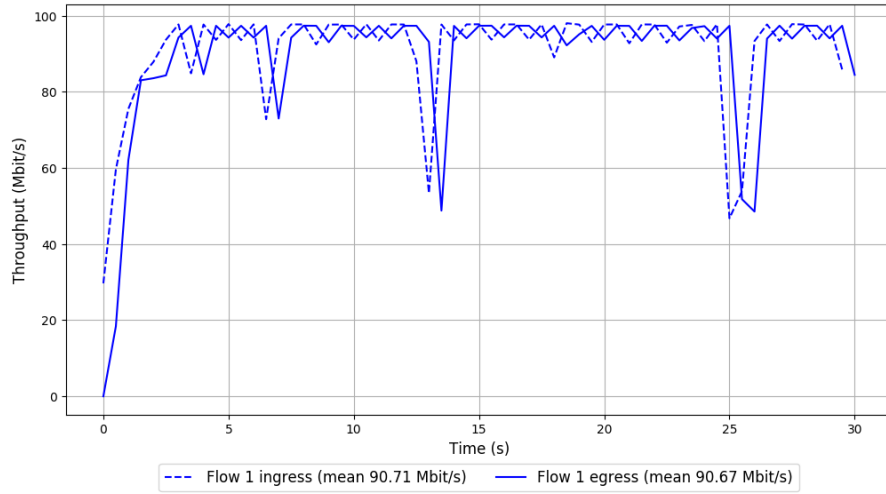
-- Flow 1:

Average throughput: 90.67 Mbit/s

95th percentile per-packet one-way delay: 27.333 ms

Loss rate: 0.13%

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



Run 3: Statistics of QUIC Cubic

Start at: 2019-03-19 09:46:18

End at: 2019-03-19 09:46:48

Local clock offset: 0.23 ms

Remote clock offset: -4.83 ms

# Below is generated by plot.py at 2019-03-19 10:50:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.88 Mbit/s

95th percentile per-packet one-way delay: 26.233 ms

Loss rate: 0.11%

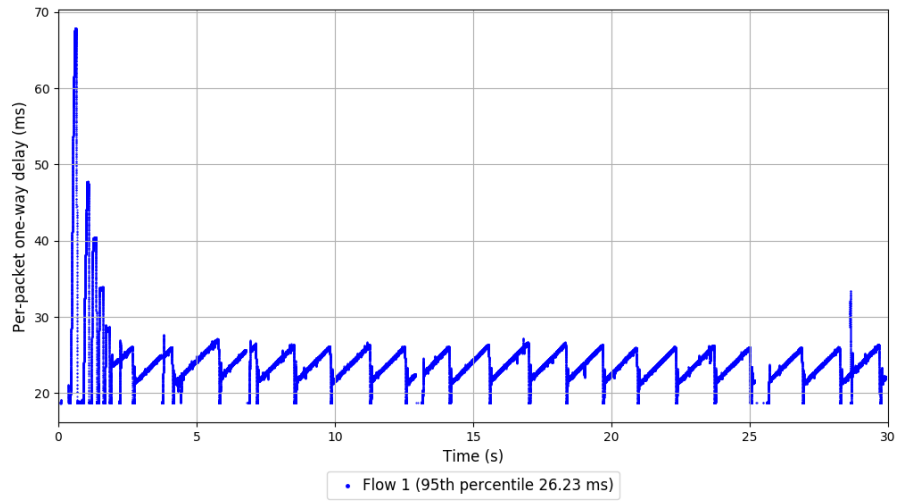
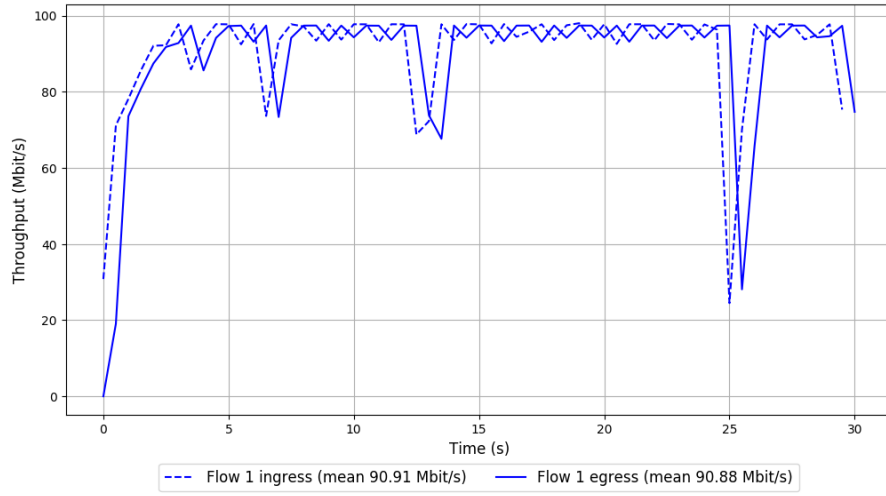
-- Flow 1:

Average throughput: 90.88 Mbit/s

95th percentile per-packet one-way delay: 26.233 ms

Loss rate: 0.11%

### Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

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

End at: 2019-03-19 10:11:01

Local clock offset: 1.305 ms

Remote clock offset: -3.888 ms

# Below is generated by plot.py at 2019-03-19 10:51:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.15 Mbit/s

95th percentile per-packet one-way delay: 26.013 ms

Loss rate: 0.08%

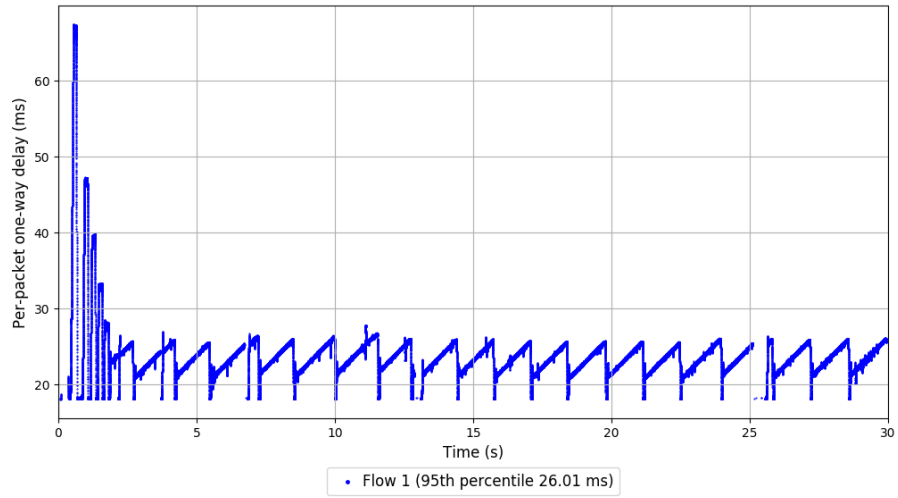
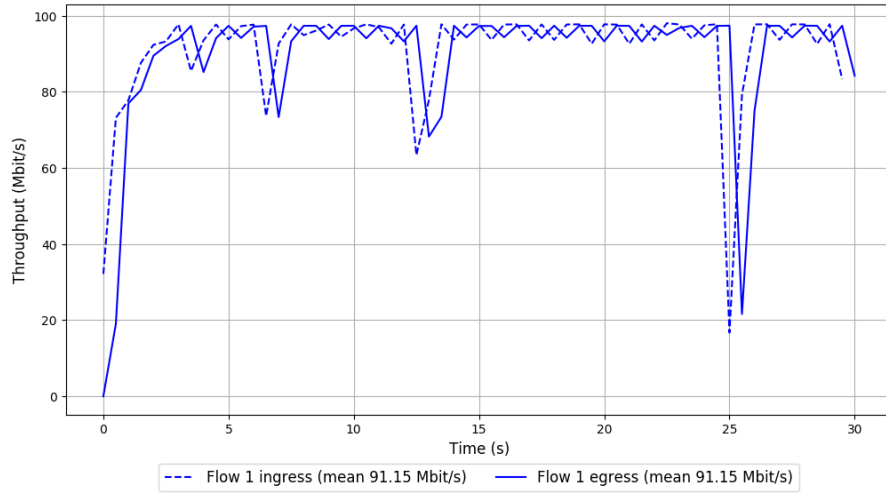
-- Flow 1:

Average throughput: 91.15 Mbit/s

95th percentile per-packet one-way delay: 26.013 ms

Loss rate: 0.08%

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



Run 5: Statistics of QUIC Cubic

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

End at: 2019-03-19 10:35:04

Local clock offset: -0.156 ms

Remote clock offset: -3.041 ms

# Below is generated by plot.py at 2019-03-19 10:51:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.89 Mbit/s

95th percentile per-packet one-way delay: 28.200 ms

Loss rate: 0.14%

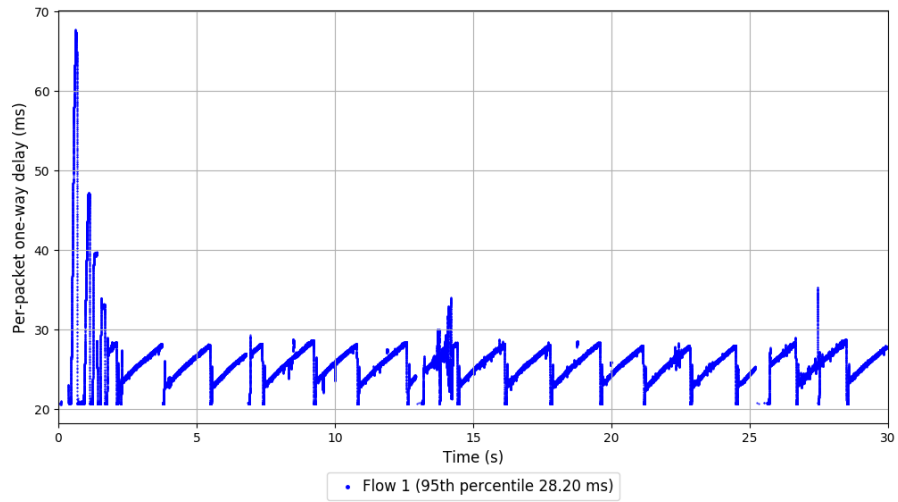
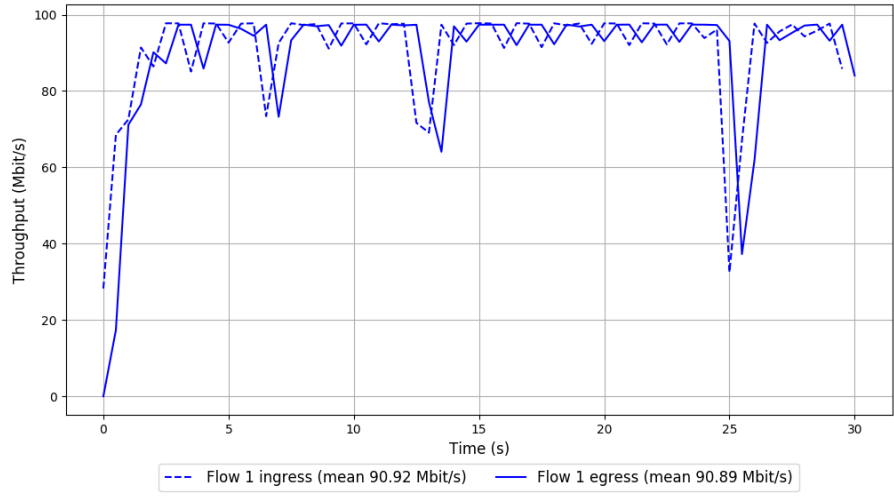
-- Flow 1:

Average throughput: 90.89 Mbit/s

95th percentile per-packet one-way delay: 28.200 ms

Loss rate: 0.14%

Run 5: Report of QUIC Cubic — Data Link





Run 1: Statistics of SCReAM

Start at: 2019-03-19 08:49:17

End at: 2019-03-19 08:49:47

Local clock offset: 2.21 ms

Remote clock offset: -3.708 ms

# Below is generated by plot.py at 2019-03-19 10:51:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 19.574 ms

Loss rate: 0.13%

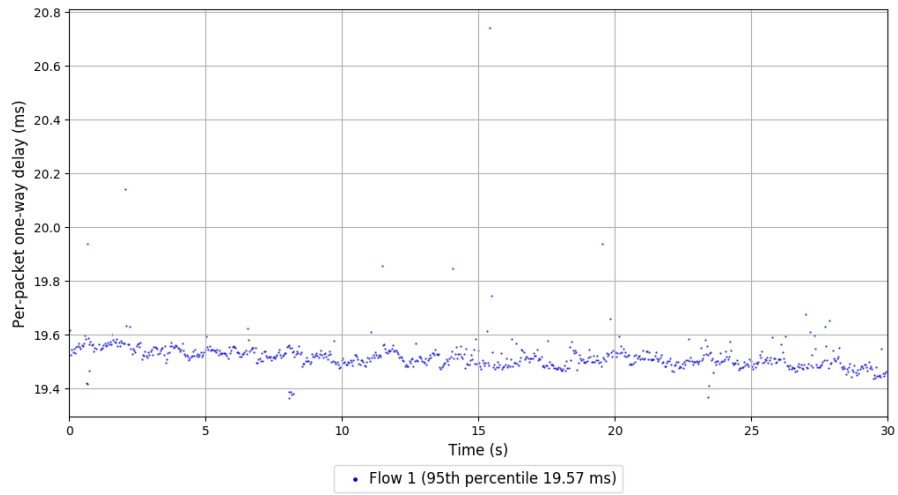
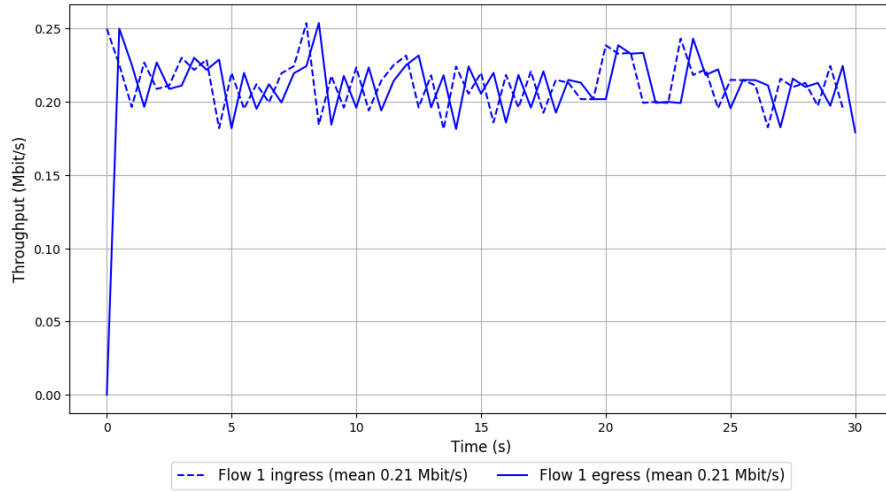
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 19.574 ms

Loss rate: 0.13%

### Run 1: Report of SCReAM — Data Link

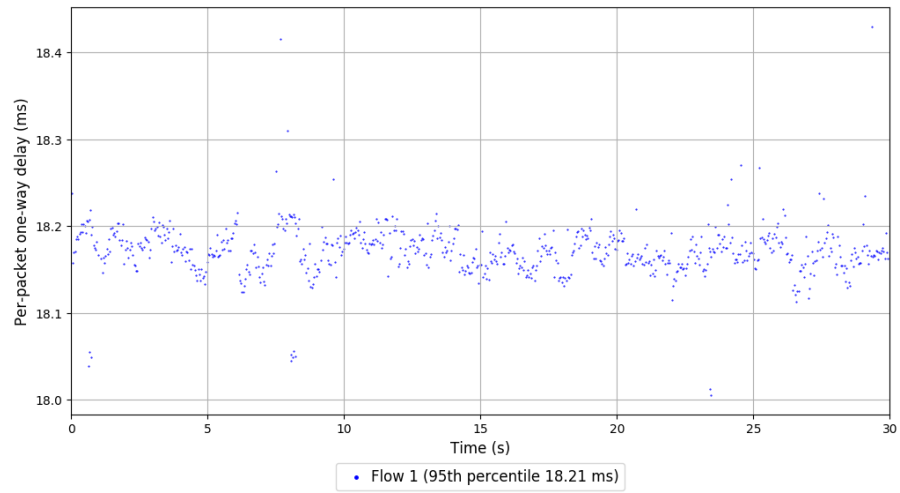
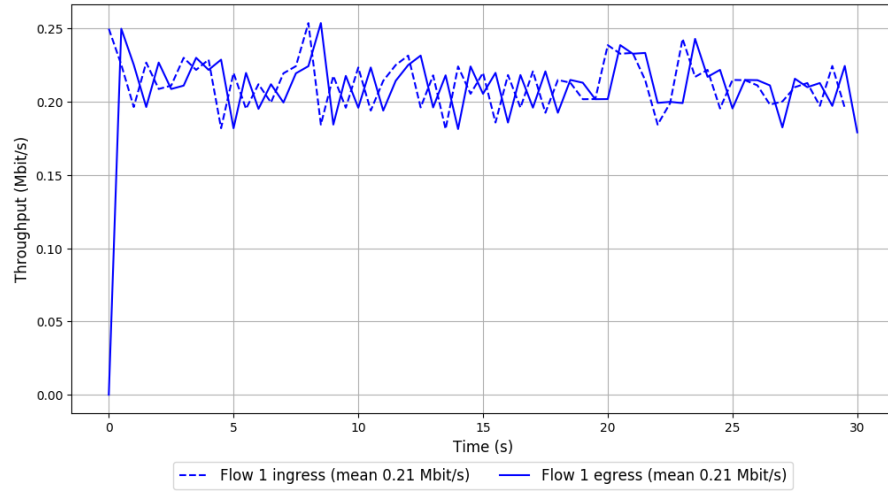


Run 2: Statistics of SCReAM

Start at: 2019-03-19 09:13:58  
End at: 2019-03-19 09:14:28  
Local clock offset: 2.589 ms  
Remote clock offset: -4.244 ms

# Below is generated by plot.py at 2019-03-19 10:51:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 18.207 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 18.207 ms  
Loss rate: 0.13%

## Run 2: Report of SCReAM — Data Link

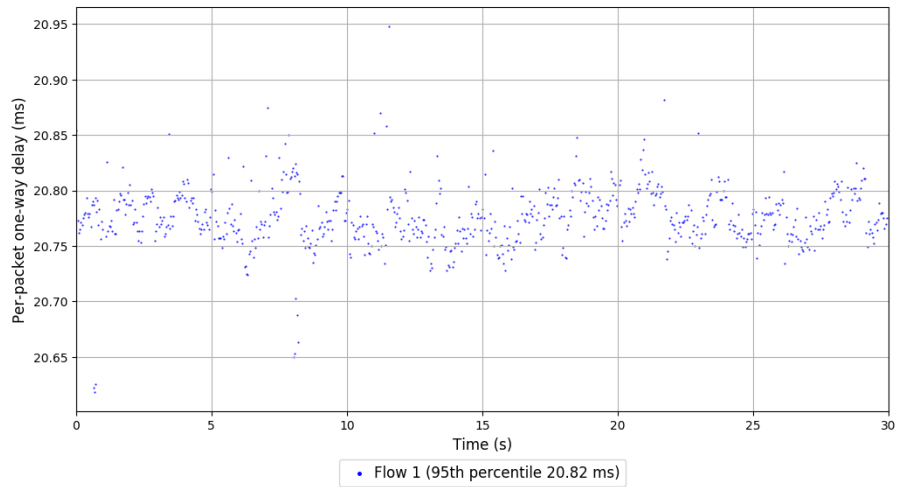
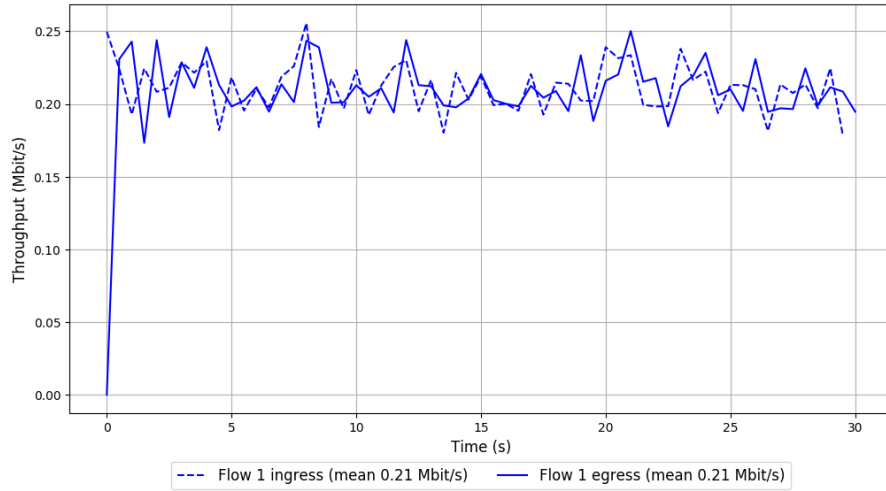


Run 3: Statistics of SCReAM

Start at: 2019-03-19 09:38:16  
End at: 2019-03-19 09:38:46  
Local clock offset: -0.32 ms  
Remote clock offset: -3.914 ms

# Below is generated by plot.py at 2019-03-19 10:51:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 20.815 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 20.815 ms  
Loss rate: 0.00%

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

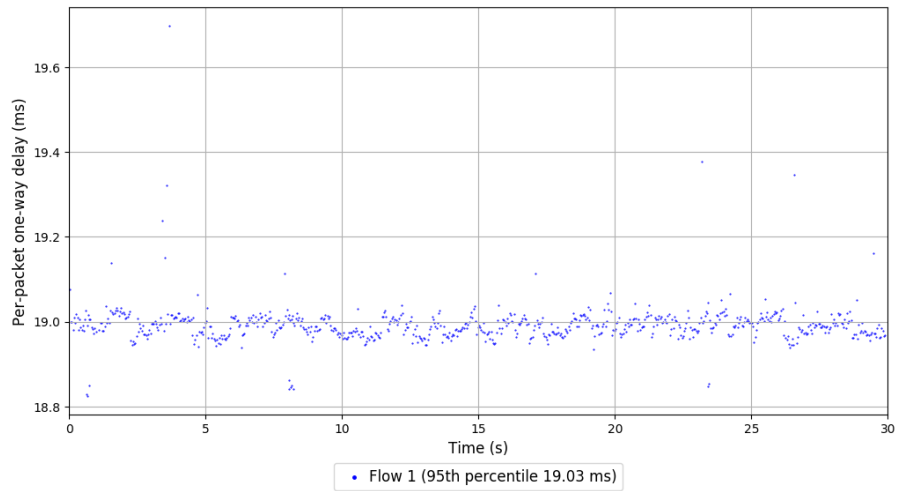
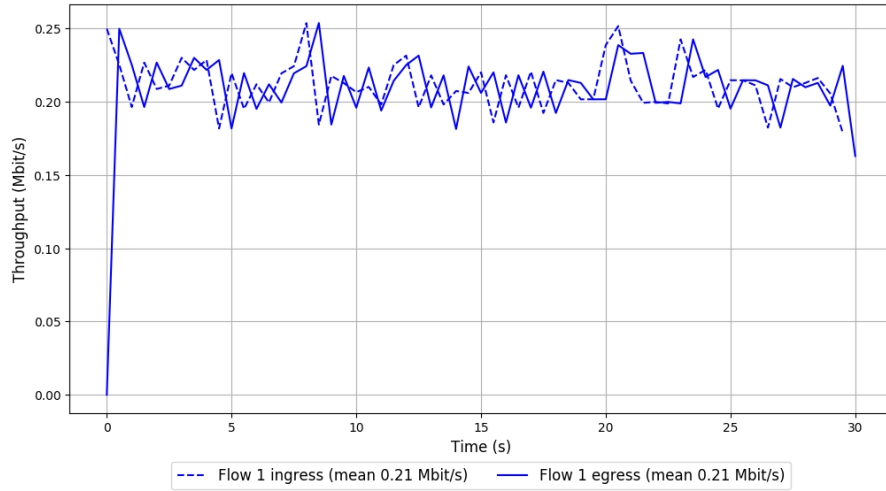


Run 4: Statistics of SCReAM

Start at: 2019-03-19 10:02:30  
End at: 2019-03-19 10:03:00  
Local clock offset: 2.407 ms  
Remote clock offset: -3.343 ms

# Below is generated by plot.py at 2019-03-19 10:51:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 19.027 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 19.027 ms  
Loss rate: 0.13%

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





Run 5: Statistics of SCReAM

Start at: 2019-03-19 10:26:33

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

Local clock offset: 1.159 ms

Remote clock offset: -3.067 ms

# Below is generated by plot.py at 2019-03-19 10:51:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 18.767 ms

Loss rate: 0.13%

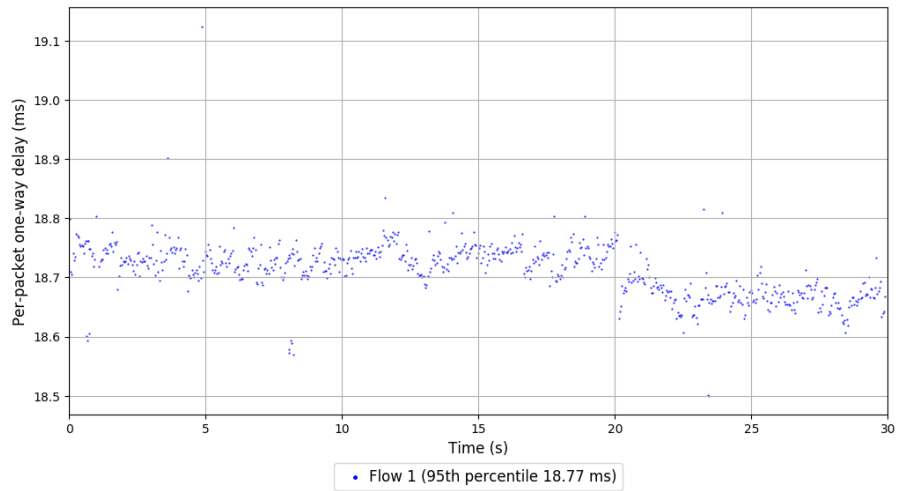
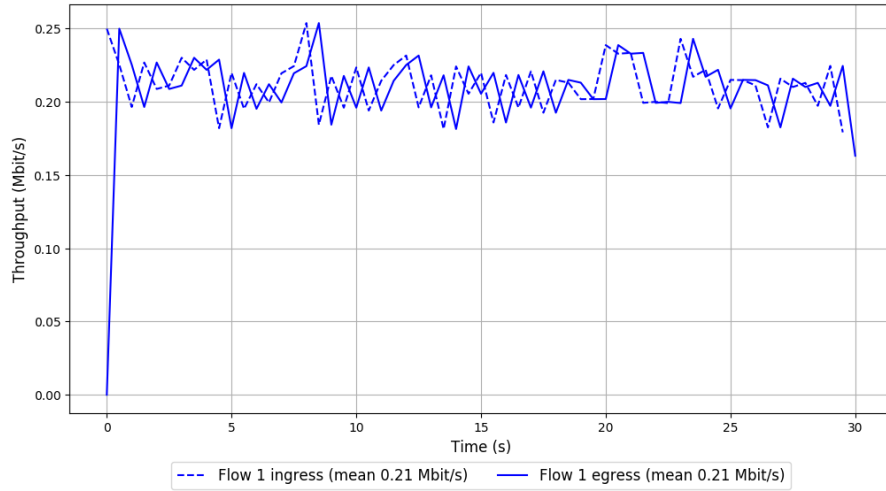
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 18.767 ms

Loss rate: 0.13%

Run 5: Report of SCReAM — Data Link

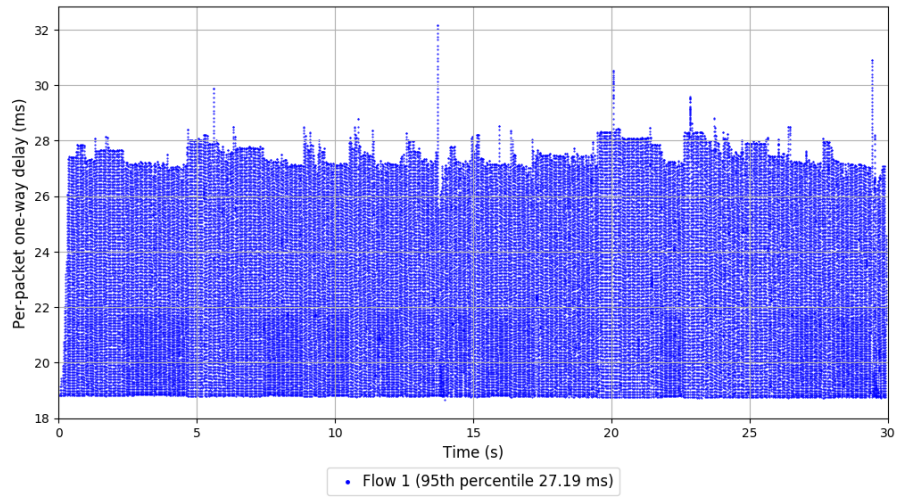
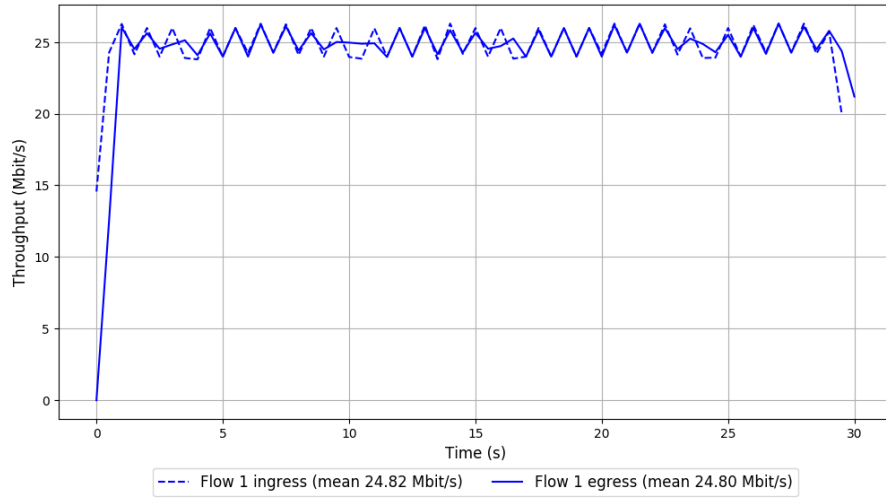


Run 1: Statistics of Sprout

Start at: 2019-03-19 08:48:11  
End at: 2019-03-19 08:48:41  
Local clock offset: 1.556 ms  
Remote clock offset: -3.547 ms

# Below is generated by plot.py at 2019-03-19 10:51:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.80 Mbit/s  
95th percentile per-packet one-way delay: 27.192 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 24.80 Mbit/s  
95th percentile per-packet one-way delay: 27.192 ms  
Loss rate: 0.04%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-03-19 09:12:52

End at: 2019-03-19 09:13:22

Local clock offset: 2.365 ms

Remote clock offset: -4.654 ms

# Below is generated by plot.py at 2019-03-19 10:51:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 24.37 Mbit/s

95th percentile per-packet one-way delay: 22.672 ms

Loss rate: 0.07%

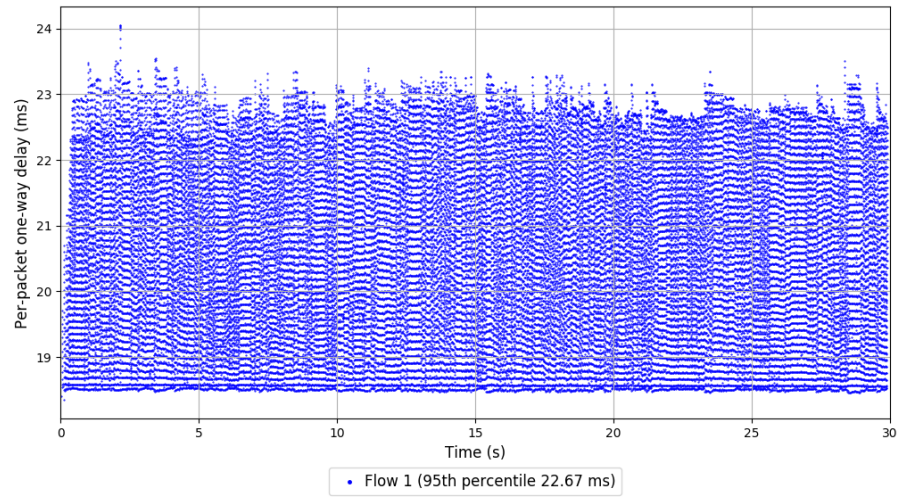
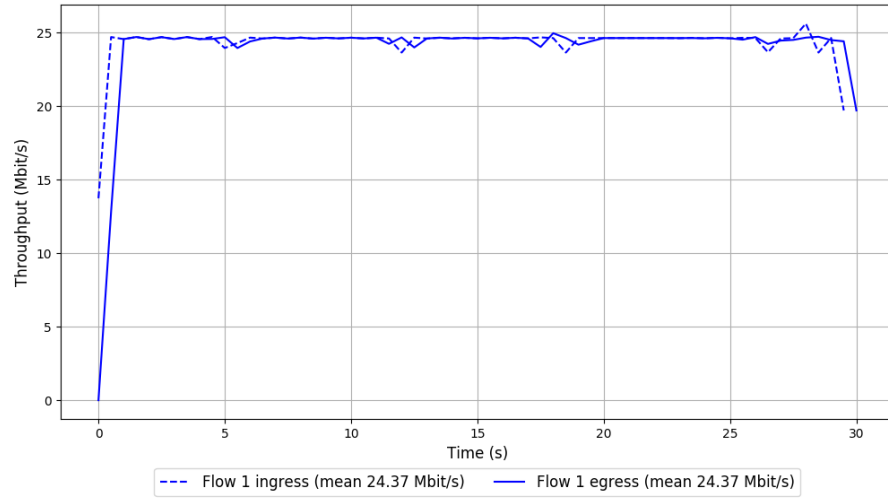
-- Flow 1:

Average throughput: 24.37 Mbit/s

95th percentile per-packet one-way delay: 22.672 ms

Loss rate: 0.07%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-03-19 09:37:10

End at: 2019-03-19 09:37:40

Local clock offset: -0.346 ms

Remote clock offset: -3.28 ms

# Below is generated by plot.py at 2019-03-19 10:51:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 24.39 Mbit/s

95th percentile per-packet one-way delay: 20.747 ms

Loss rate: 0.07%

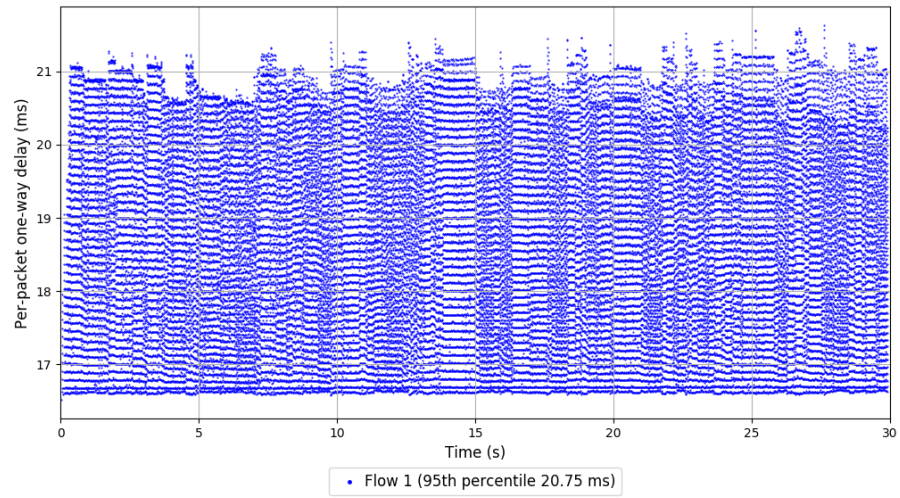
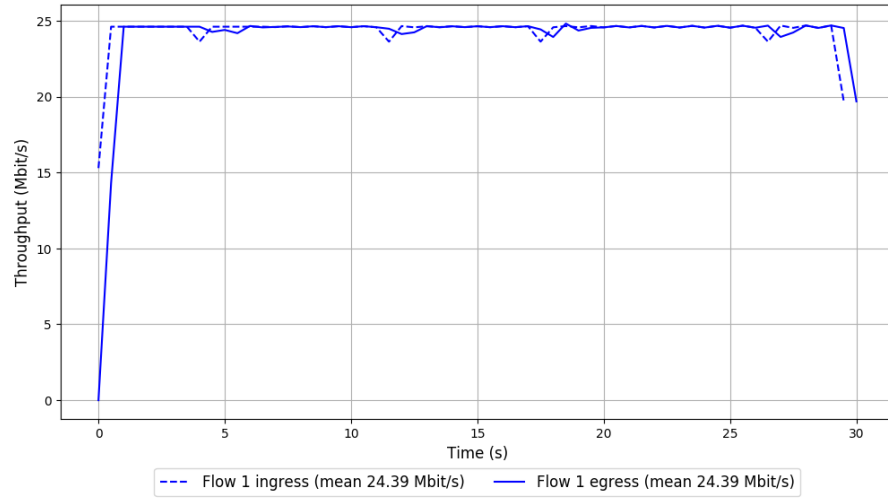
-- Flow 1:

Average throughput: 24.39 Mbit/s

95th percentile per-packet one-way delay: 20.747 ms

Loss rate: 0.07%

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





Run 4: Statistics of Sprout

Start at: 2019-03-19 10:01:24

End at: 2019-03-19 10:01:54

Local clock offset: 0.66 ms

Remote clock offset: -4.059 ms

# Below is generated by plot.py at 2019-03-19 10:51:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 24.35 Mbit/s

95th percentile per-packet one-way delay: 22.109 ms

Loss rate: 0.07%

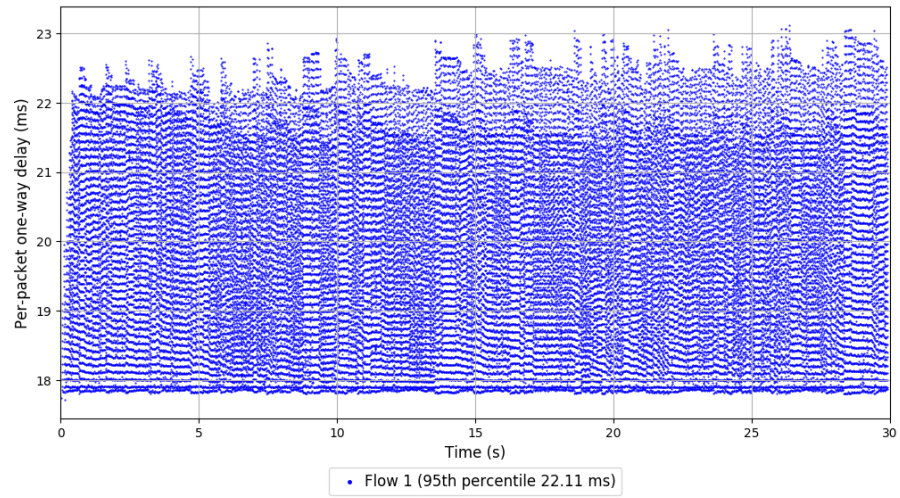
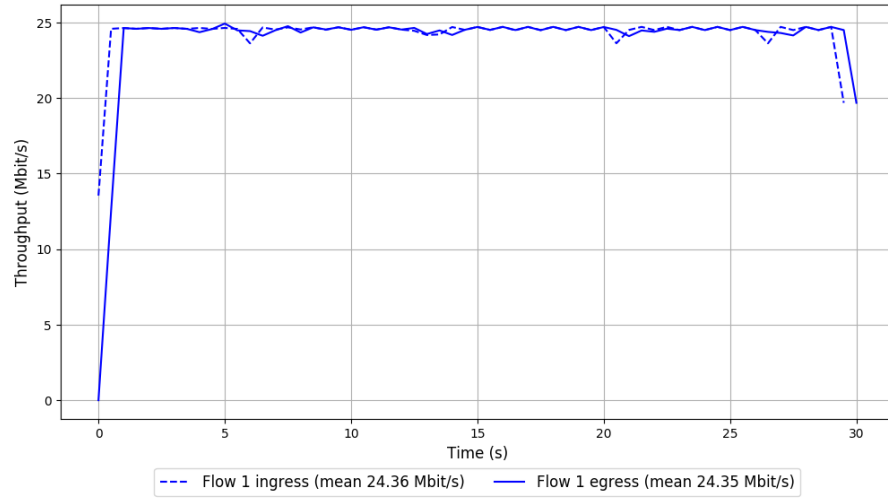
-- Flow 1:

Average throughput: 24.35 Mbit/s

95th percentile per-packet one-way delay: 22.109 ms

Loss rate: 0.07%

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

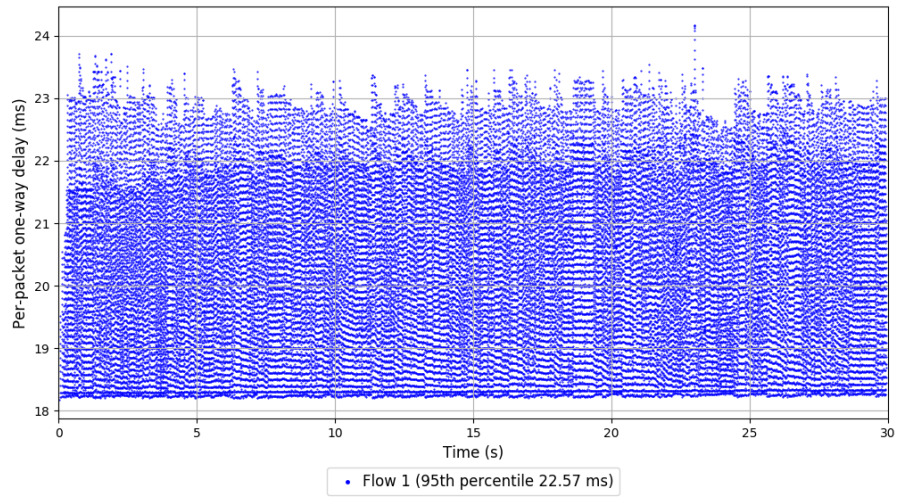
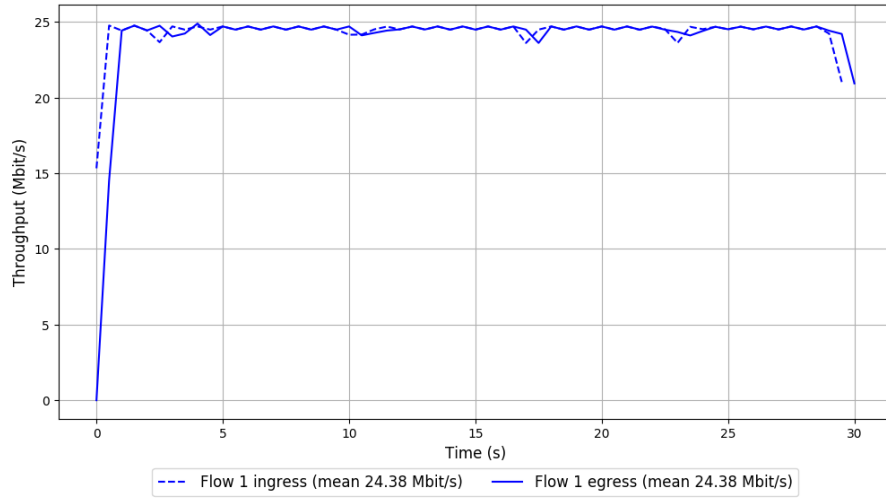


Run 5: Statistics of Sprout

Start at: 2019-03-19 10:25:27  
End at: 2019-03-19 10:25:57  
Local clock offset: 0.485 ms  
Remote clock offset: -3.314 ms

# Below is generated by plot.py at 2019-03-19 10:51:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.38 Mbit/s  
95th percentile per-packet one-way delay: 22.570 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 24.38 Mbit/s  
95th percentile per-packet one-way delay: 22.570 ms  
Loss rate: 0.09%

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



Run 1: Statistics of TaoVA-100x

Start at: 2019-03-19 08:44:26

End at: 2019-03-19 08:44:56

Local clock offset: 0.82 ms

Remote clock offset: -3.188 ms

# Below is generated by plot.py at 2019-03-19 10:52:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.26 Mbit/s

95th percentile per-packet one-way delay: 22.275 ms

Loss rate: 0.11%

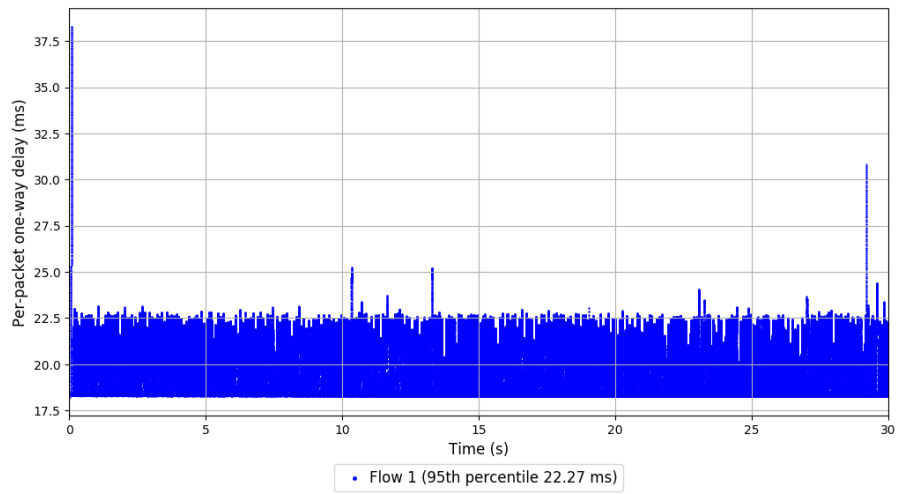
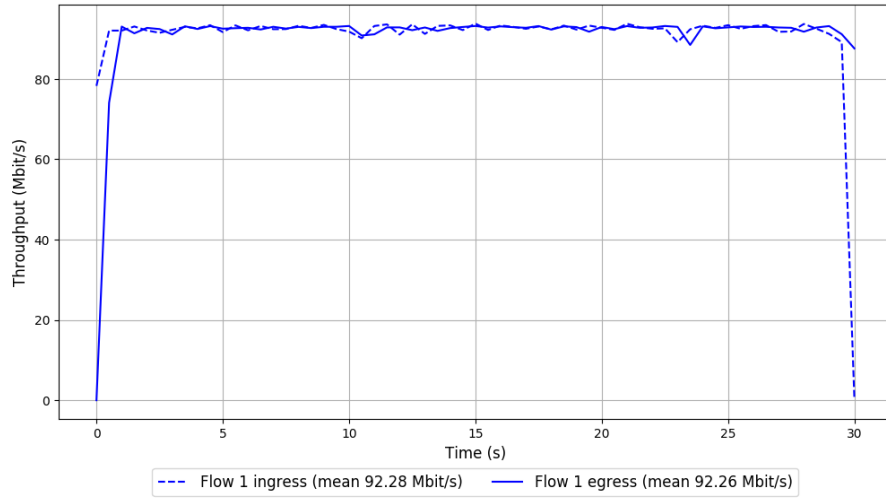
-- Flow 1:

Average throughput: 92.26 Mbit/s

95th percentile per-packet one-way delay: 22.275 ms

Loss rate: 0.11%

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



Run 2: Statistics of TaoVA-100x

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

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

Local clock offset: 2.529 ms

Remote clock offset: -3.459 ms

# Below is generated by plot.py at 2019-03-19 10:52:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.58 Mbit/s

95th percentile per-packet one-way delay: 21.685 ms

Loss rate: 0.08%

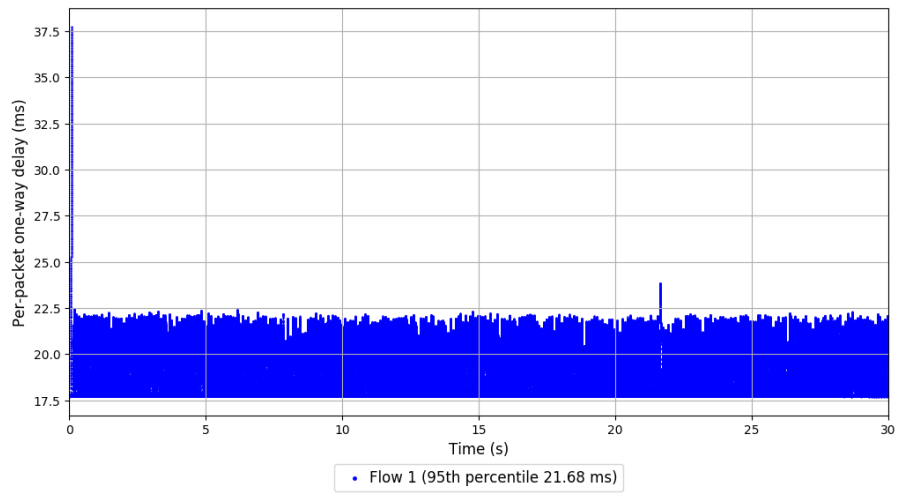
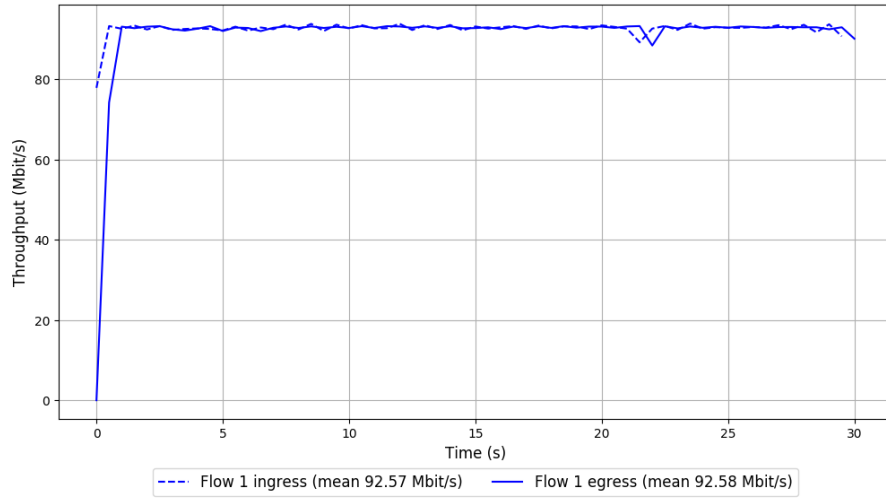
-- Flow 1:

Average throughput: 92.58 Mbit/s

95th percentile per-packet one-way delay: 21.685 ms

Loss rate: 0.08%

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





Run 3: Statistics of TaoVA-100x

Start at: 2019-03-19 09:33:40

End at: 2019-03-19 09:34:10

Local clock offset: 1.959 ms

Remote clock offset: -3.756 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.46 Mbit/s

95th percentile per-packet one-way delay: 23.364 ms

Loss rate: 0.10%

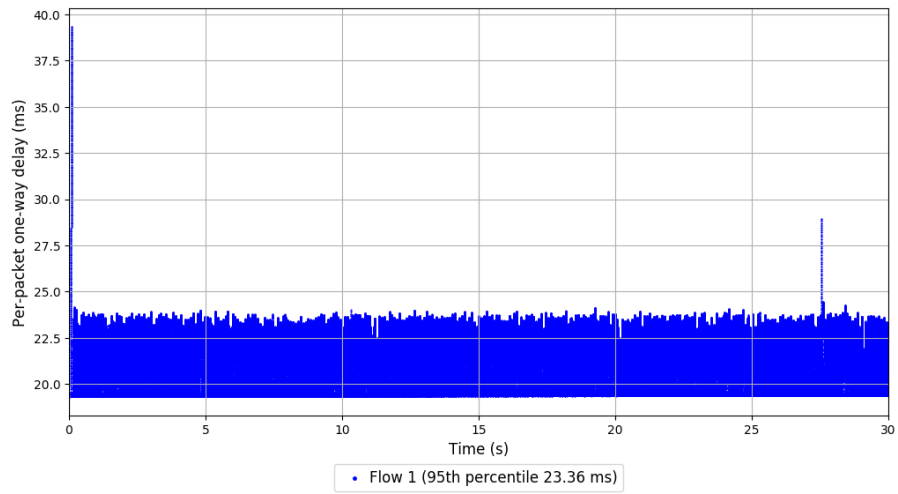
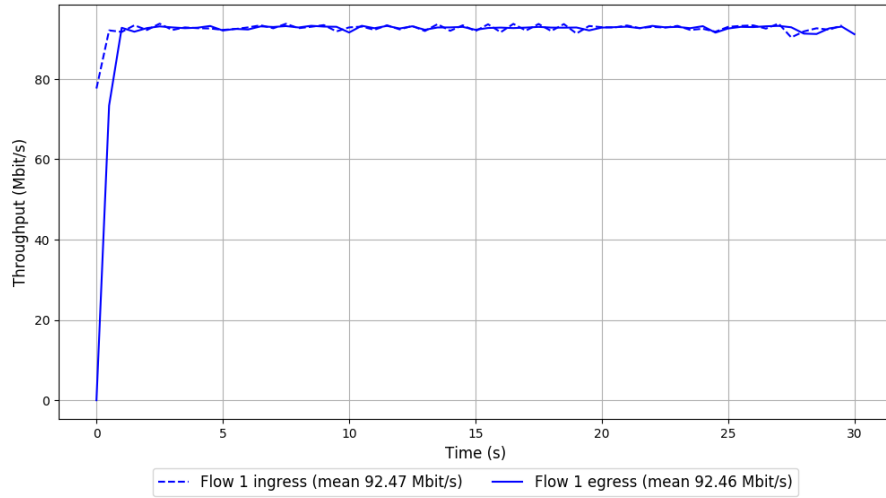
-- Flow 1:

Average throughput: 92.46 Mbit/s

95th percentile per-packet one-way delay: 23.364 ms

Loss rate: 0.10%

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



Run 4: Statistics of TaoVA-100x

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

End at: 2019-03-19 09:58:22

Local clock offset: 0.606 ms

Remote clock offset: -3.247 ms

# Below is generated by plot.py at 2019-03-19 10:52:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.42 Mbit/s

95th percentile per-packet one-way delay: 21.224 ms

Loss rate: 0.10%

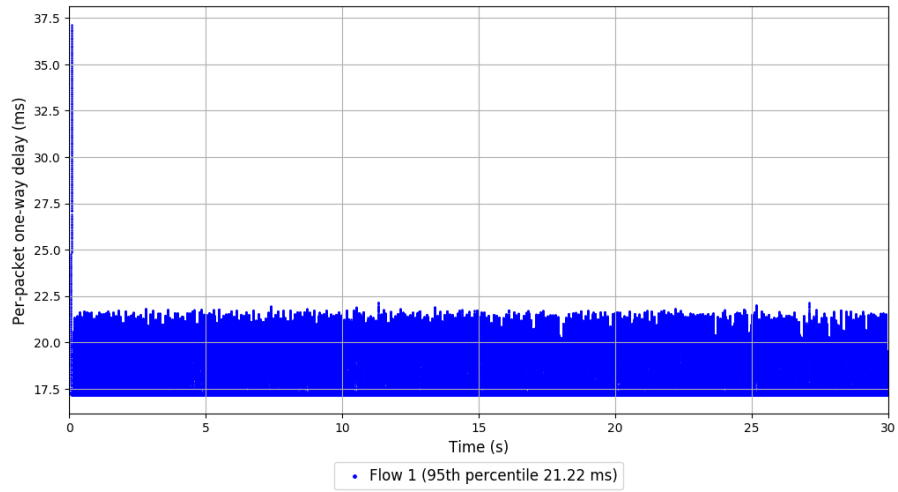
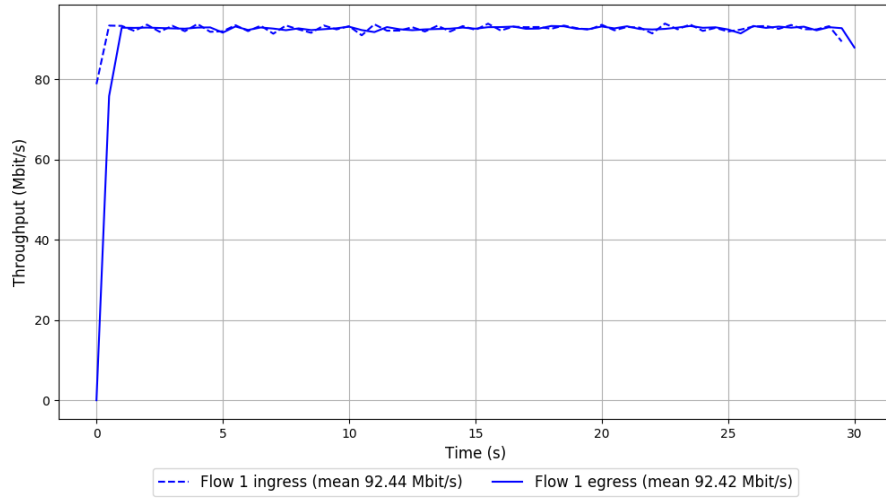
-- Flow 1:

Average throughput: 92.42 Mbit/s

95th percentile per-packet one-way delay: 21.224 ms

Loss rate: 0.10%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-03-19 10:21:57

End at: 2019-03-19 10:22:27

Local clock offset: 0.181 ms

Remote clock offset: -4.275 ms

# Below is generated by plot.py at 2019-03-19 10:52:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.30 Mbit/s

95th percentile per-packet one-way delay: 22.452 ms

Loss rate: 0.09%

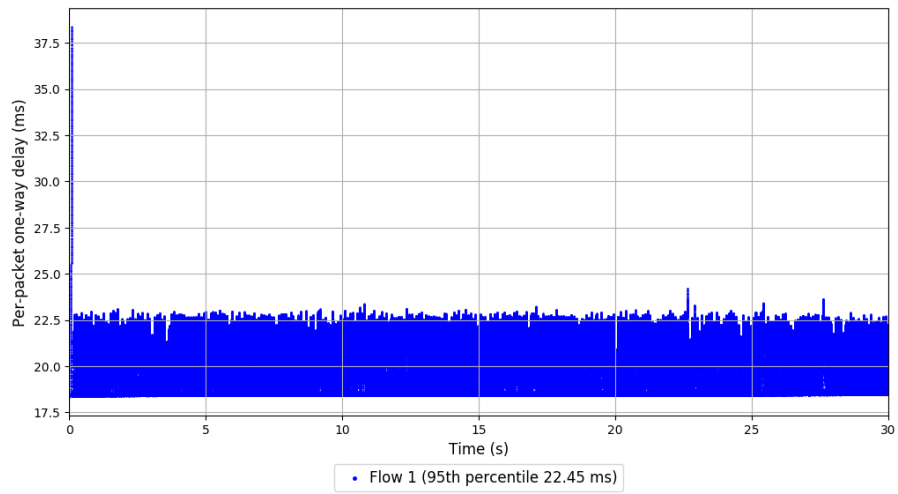
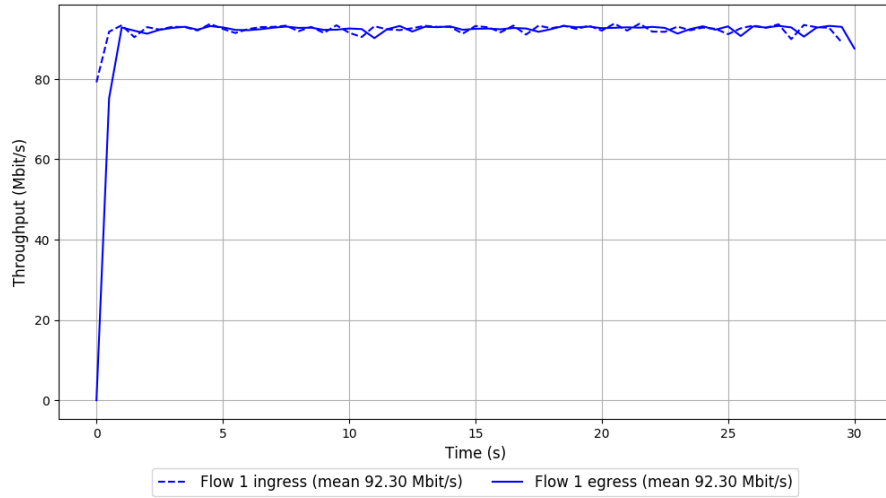
-- Flow 1:

Average throughput: 92.30 Mbit/s

95th percentile per-packet one-way delay: 22.452 ms

Loss rate: 0.09%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-03-19 09:00:03

End at: 2019-03-19 09:00:33

Local clock offset: 1.874 ms

Remote clock offset: -4.022 ms

# Below is generated by plot.py at 2019-03-19 10:52:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.10 Mbit/s

95th percentile per-packet one-way delay: 22.727 ms

Loss rate: 0.20%

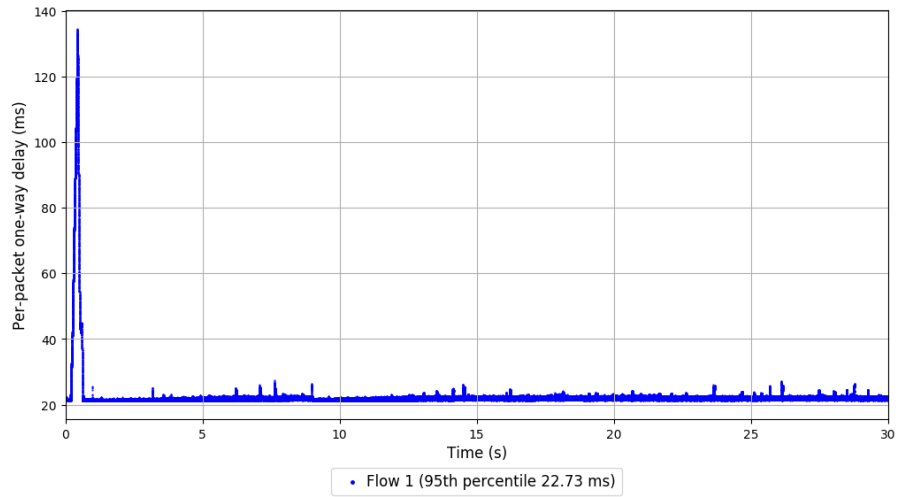
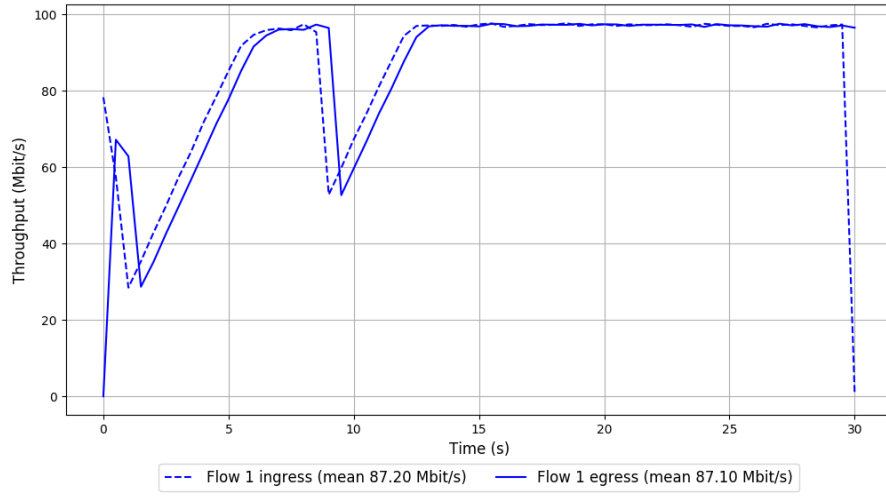
-- Flow 1:

Average throughput: 87.10 Mbit/s

95th percentile per-packet one-way delay: 22.727 ms

Loss rate: 0.20%

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





Run 2: Statistics of TCP Vegas

Start at: 2019-03-19 09:24:26

End at: 2019-03-19 09:24:56

Local clock offset: 1.067 ms

Remote clock offset: -3.235 ms

# Below is generated by plot.py at 2019-03-19 10:52:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.94 Mbit/s

95th percentile per-packet one-way delay: 18.661 ms

Loss rate: 0.09%

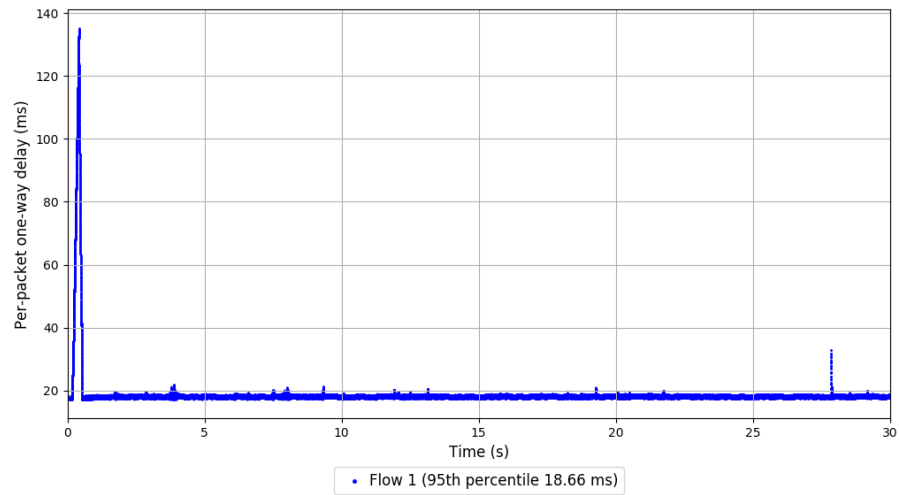
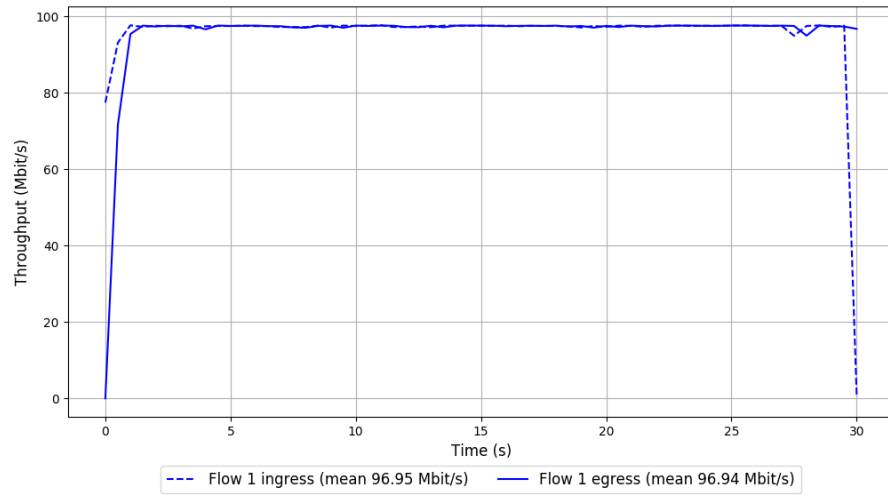
-- Flow 1:

Average throughput: 96.94 Mbit/s

95th percentile per-packet one-way delay: 18.661 ms

Loss rate: 0.09%

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

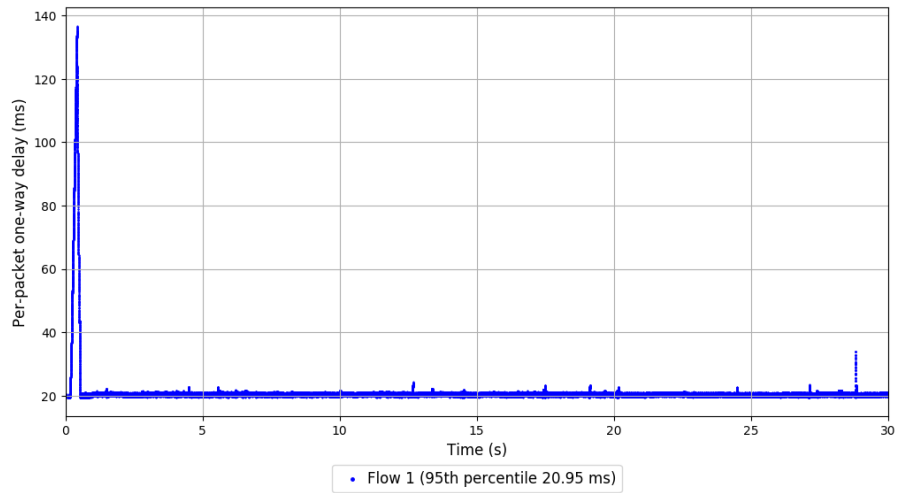
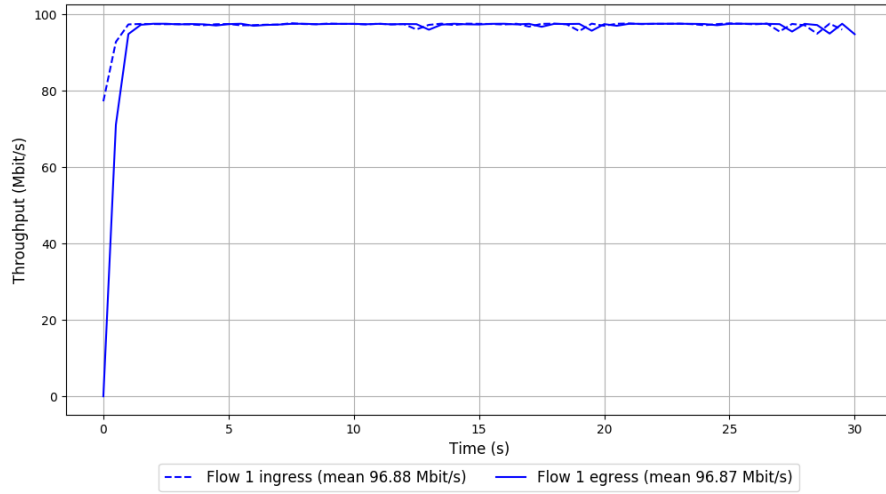


Run 3: Statistics of TCP Vegas

Start at: 2019-03-19 09:48:36  
End at: 2019-03-19 09:49:06  
Local clock offset: 1.951 ms  
Remote clock offset: -3.991 ms

# Below is generated by plot.py at 2019-03-19 10:52:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.87 Mbit/s  
95th percentile per-packet one-way delay: 20.951 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 96.87 Mbit/s  
95th percentile per-packet one-way delay: 20.951 ms  
Loss rate: 0.09%

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



Run 4: Statistics of TCP Vegas

Start at: 2019-03-19 10:12:48  
End at: 2019-03-19 10:13:18  
Local clock offset: 2.312 ms  
Remote clock offset: -5.345 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.37 Mbit/s

95th percentile per-packet one-way delay: 22.180 ms

Loss rate: 0.10%

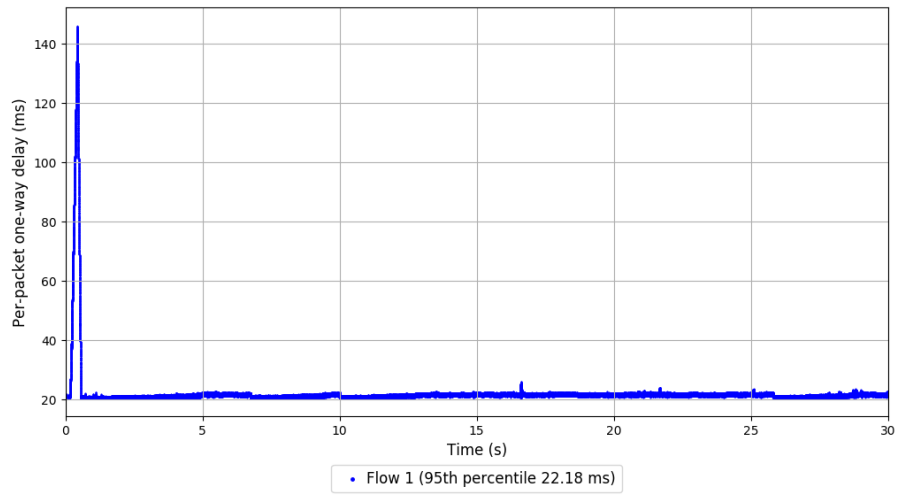
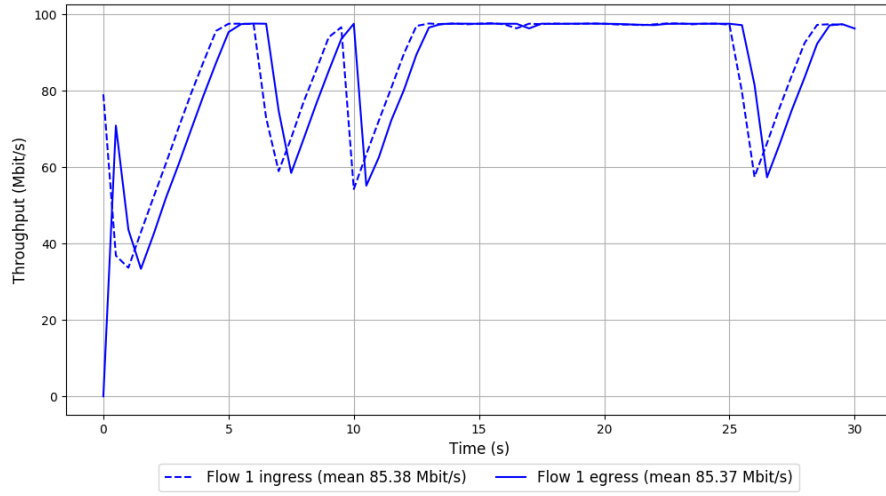
-- Flow 1:

Average throughput: 85.37 Mbit/s

95th percentile per-packet one-way delay: 22.180 ms

Loss rate: 0.10%

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

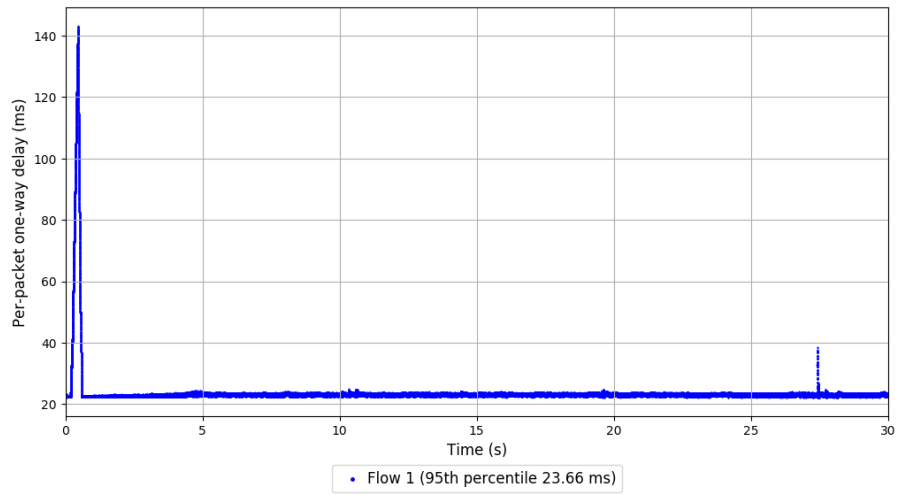
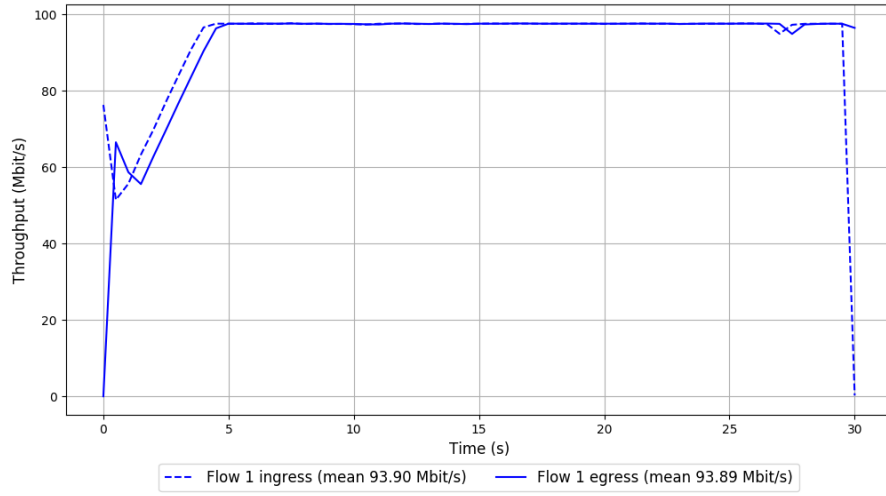


Run 5: Statistics of TCP Vegas

Start at: 2019-03-19 10:36:52  
End at: 2019-03-19 10:37:23  
Local clock offset: -0.05 ms  
Remote clock offset: -4.255 ms

# Below is generated by plot.py at 2019-03-19 10:53:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 93.89 Mbit/s  
95th percentile per-packet one-way delay: 23.659 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 93.89 Mbit/s  
95th percentile per-packet one-way delay: 23.659 ms  
Loss rate: 0.10%

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





Run 1: Statistics of Verus

Start at: 2019-03-19 08:38:29

End at: 2019-03-19 08:38:59

Local clock offset: 0.086 ms

Remote clock offset: -4.2 ms

# Below is generated by plot.py at 2019-03-19 10:53:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.69 Mbit/s

95th percentile per-packet one-way delay: 55.382 ms

Loss rate: 0.47%

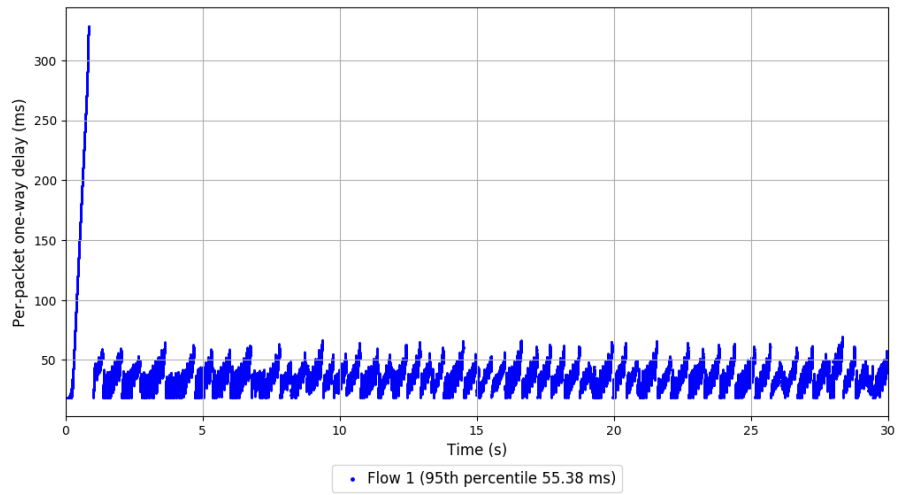
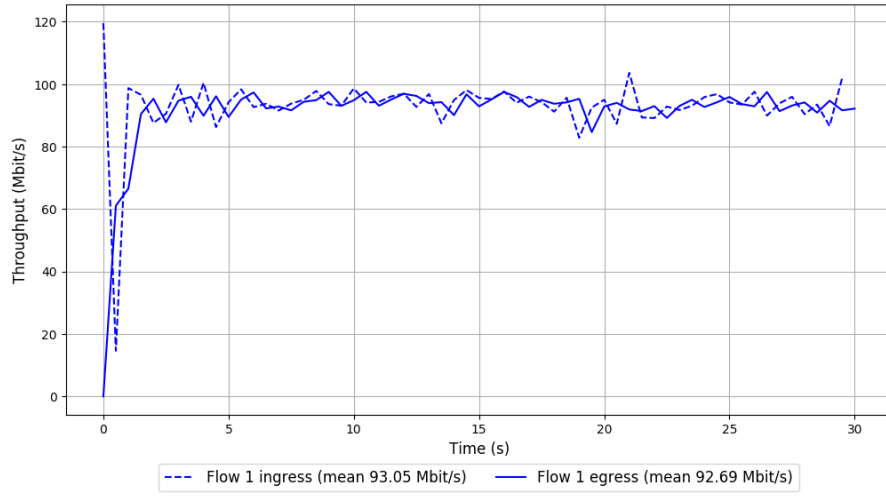
-- Flow 1:

Average throughput: 92.69 Mbit/s

95th percentile per-packet one-way delay: 55.382 ms

Loss rate: 0.47%

### Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

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

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

Local clock offset: 2.131 ms

Remote clock offset: -5.729 ms

# Below is generated by plot.py at 2019-03-19 10:53:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.26 Mbit/s

95th percentile per-packet one-way delay: 55.314 ms

Loss rate: 0.26%

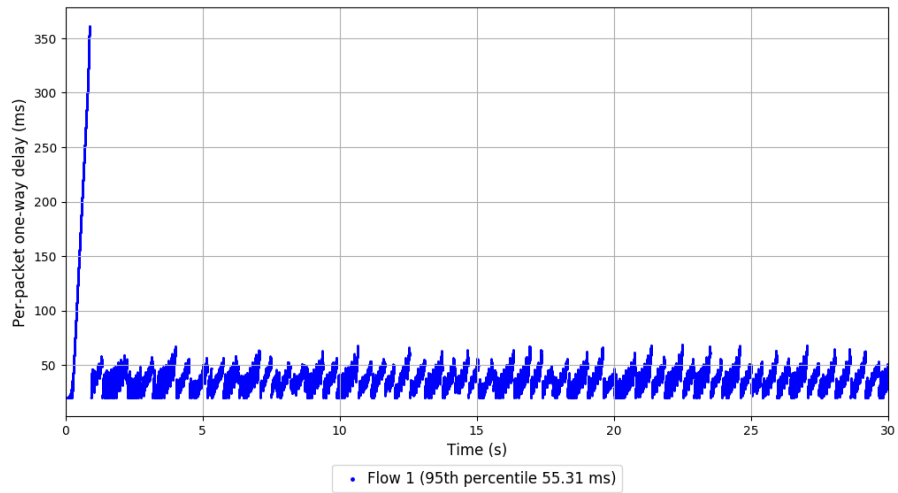
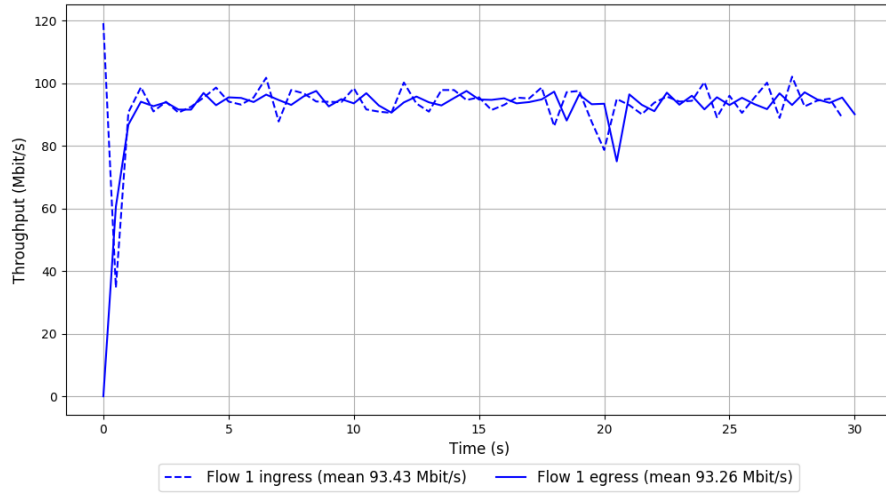
-- Flow 1:

Average throughput: 93.26 Mbit/s

95th percentile per-packet one-way delay: 55.314 ms

Loss rate: 0.26%

## Run 2: Report of Verus — Data Link

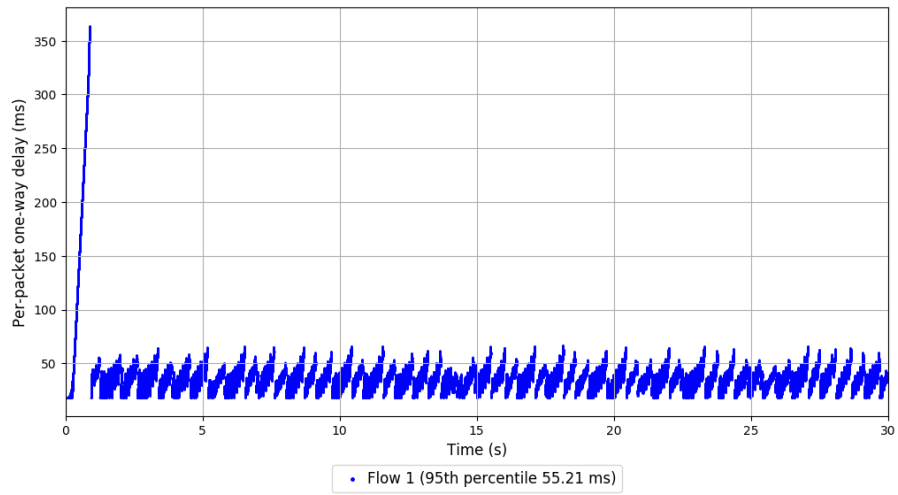
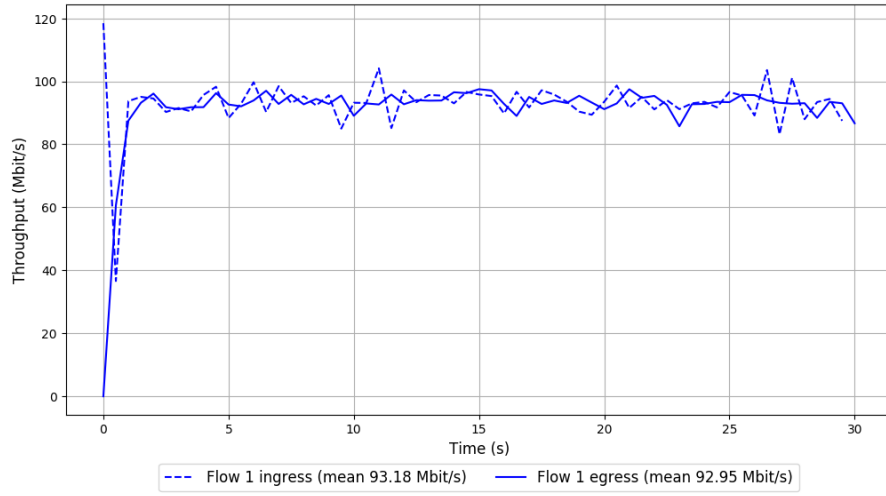


Run 3: Statistics of Verus

Start at: 2019-03-19 09:27:56  
End at: 2019-03-19 09:28:26  
Local clock offset: 0.678 ms  
Remote clock offset: -4.206 ms

# Below is generated by plot.py at 2019-03-19 10:53:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.95 Mbit/s  
95th percentile per-packet one-way delay: 55.213 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 92.95 Mbit/s  
95th percentile per-packet one-way delay: 55.213 ms  
Loss rate: 0.32%

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

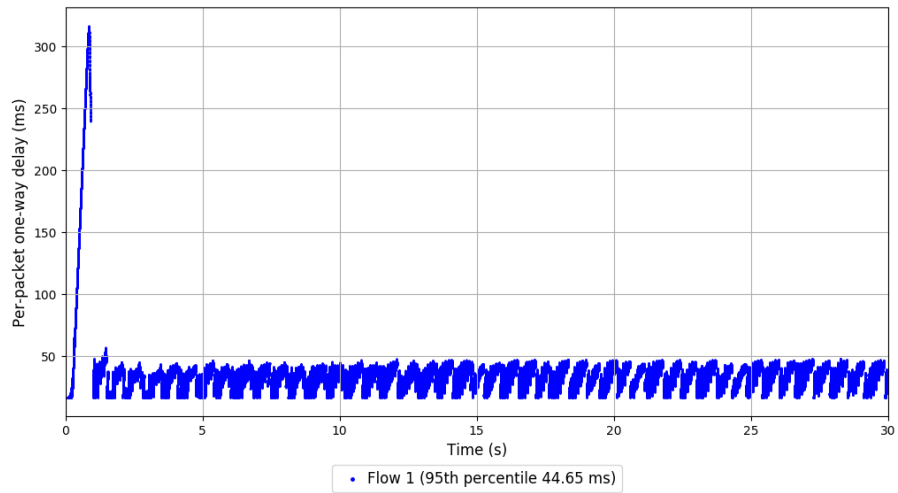
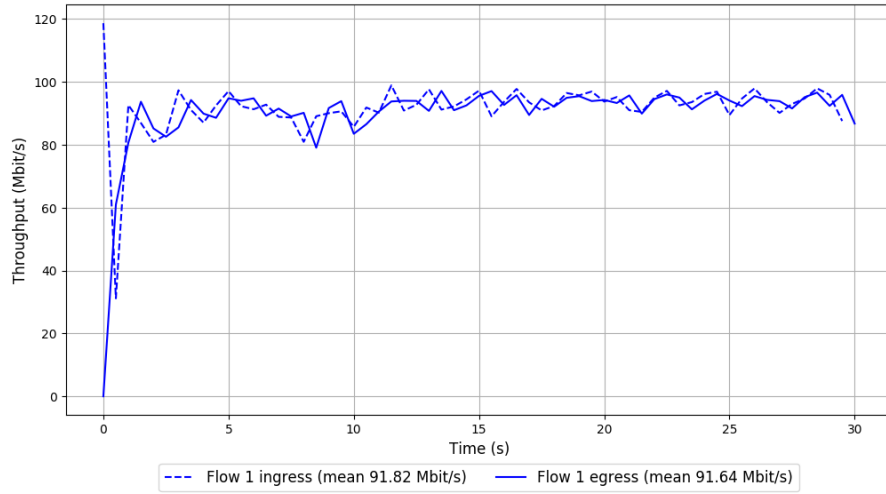


Run 4: Statistics of Verus

Start at: 2019-03-19 09:52:08  
End at: 2019-03-19 09:52:38  
Local clock offset: 0.329 ms  
Remote clock offset: -3.077 ms

# Below is generated by plot.py at 2019-03-19 10:53:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.64 Mbit/s  
95th percentile per-packet one-way delay: 44.645 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 91.64 Mbit/s  
95th percentile per-packet one-way delay: 44.645 ms  
Loss rate: 0.28%

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



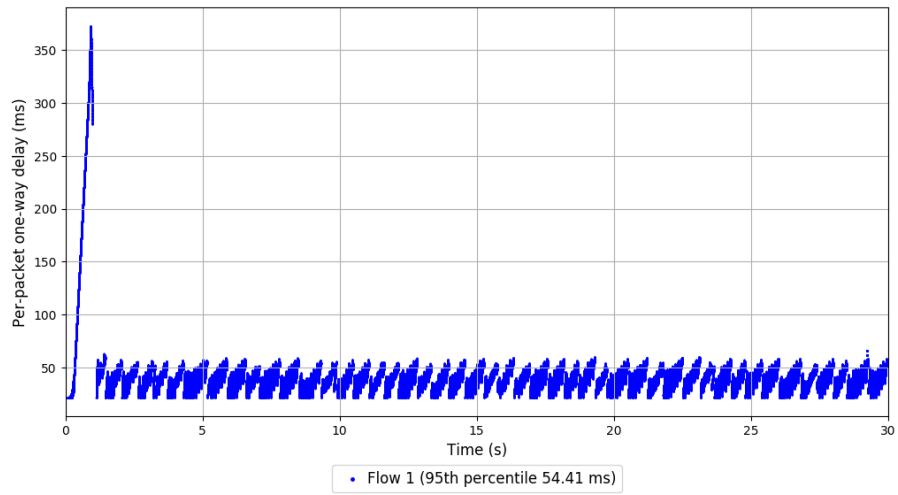
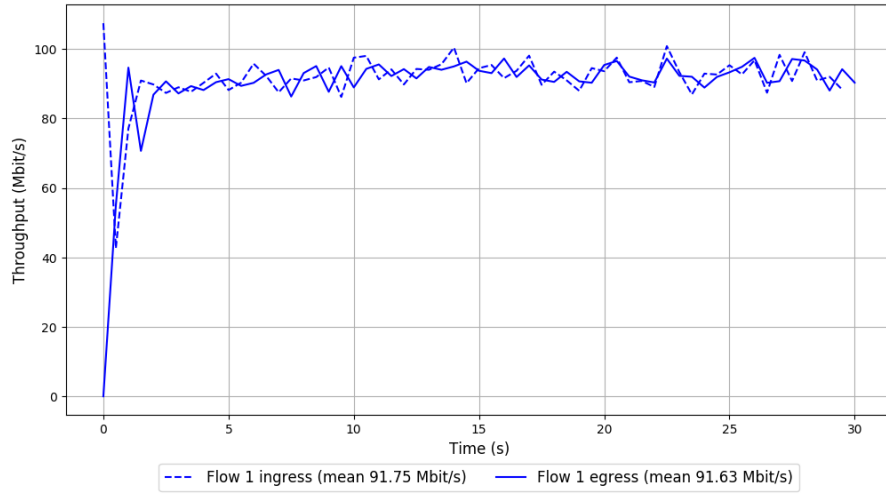


Run 5: Statistics of Verus

Start at: 2019-03-19 10:16:15  
End at: 2019-03-19 10:16:45  
Local clock offset: 1.651 ms  
Remote clock offset: -3.385 ms

# Below is generated by plot.py at 2019-03-19 10:53:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.63 Mbit/s  
95th percentile per-packet one-way delay: 54.409 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 91.63 Mbit/s  
95th percentile per-packet one-way delay: 54.409 ms  
Loss rate: 0.22%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-03-19 08:55:15

End at: 2019-03-19 08:55:46

Local clock offset: 2.509 ms

Remote clock offset: -3.496 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.54 Mbit/s

95th percentile per-packet one-way delay: 19.219 ms

Loss rate: 0.08%

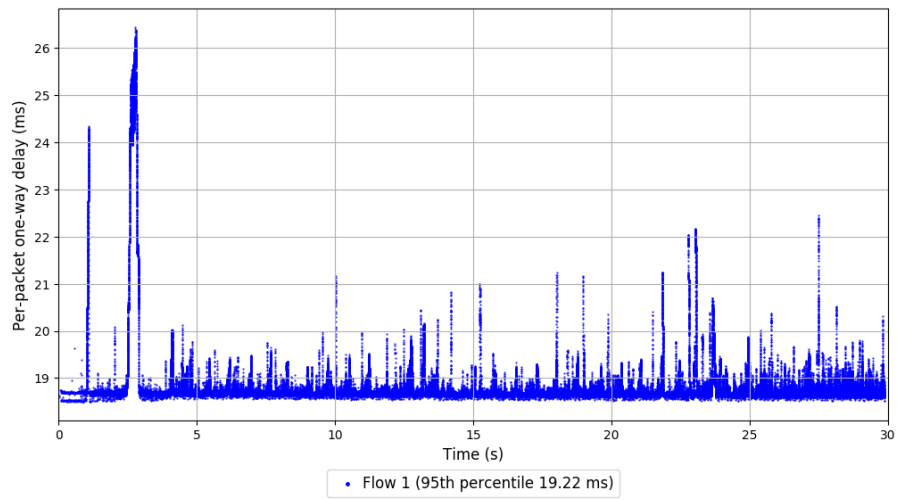
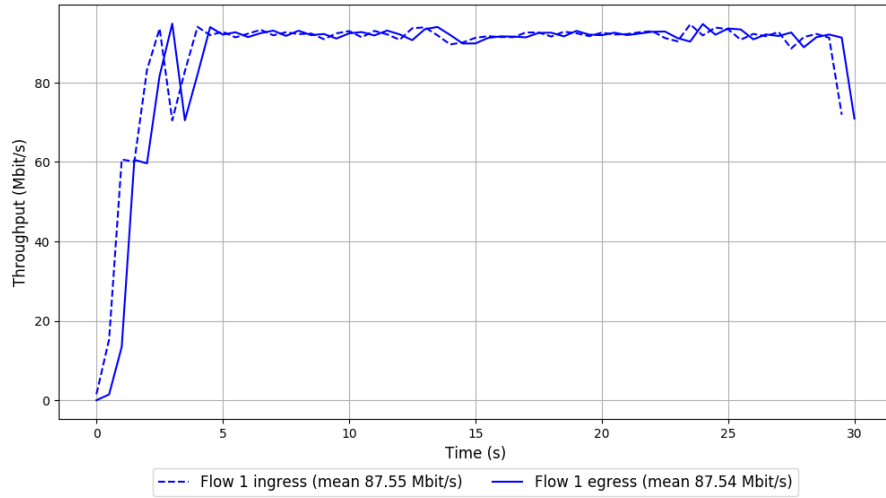
-- Flow 1:

Average throughput: 87.54 Mbit/s

95th percentile per-packet one-way delay: 19.219 ms

Loss rate: 0.08%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

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

End at: 2019-03-19 09:20:08

Local clock offset: 3.847 ms

Remote clock offset: -4.483 ms

# Below is generated by plot.py at 2019-03-19 10:53:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.65 Mbit/s

95th percentile per-packet one-way delay: 24.818 ms

Loss rate: 0.10%

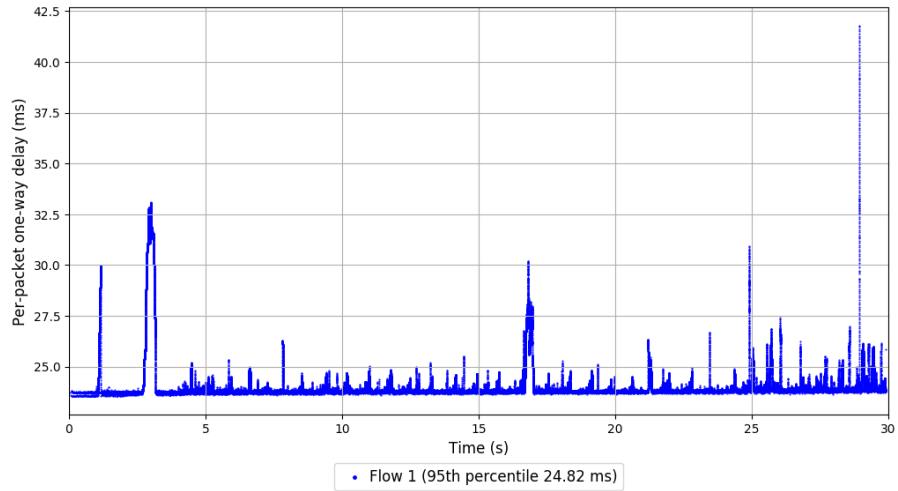
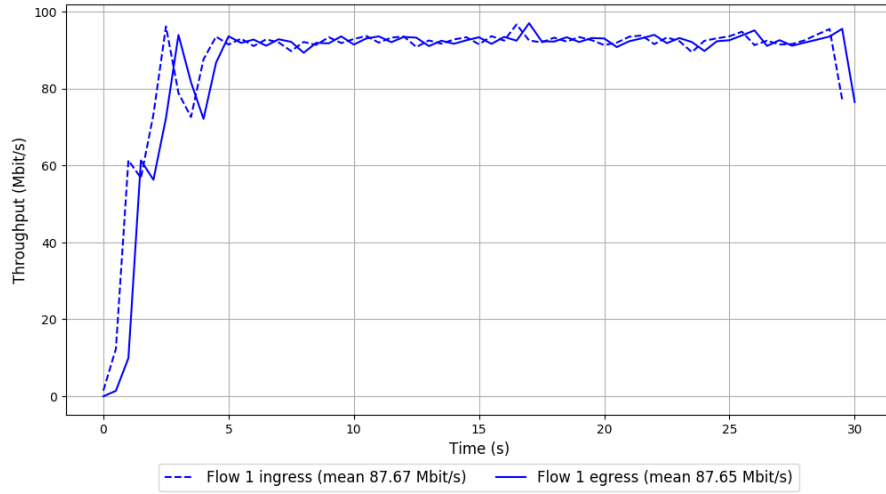
-- Flow 1:

Average throughput: 87.65 Mbit/s

95th percentile per-packet one-way delay: 24.818 ms

Loss rate: 0.10%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-03-19 09:43:57

End at: 2019-03-19 09:44:27

Local clock offset: 0.978 ms

Remote clock offset: -4.011 ms

# Below is generated by plot.py at 2019-03-19 10:54:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.87 Mbit/s

95th percentile per-packet one-way delay: 19.165 ms

Loss rate: 0.09%

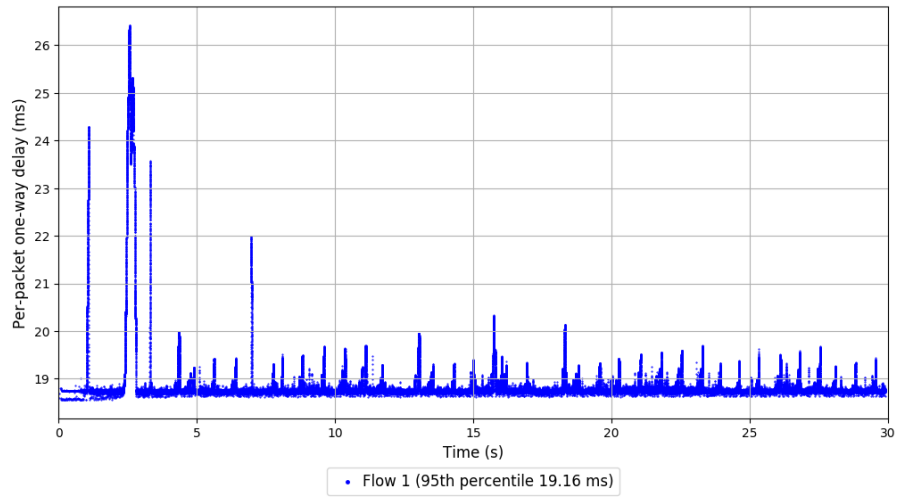
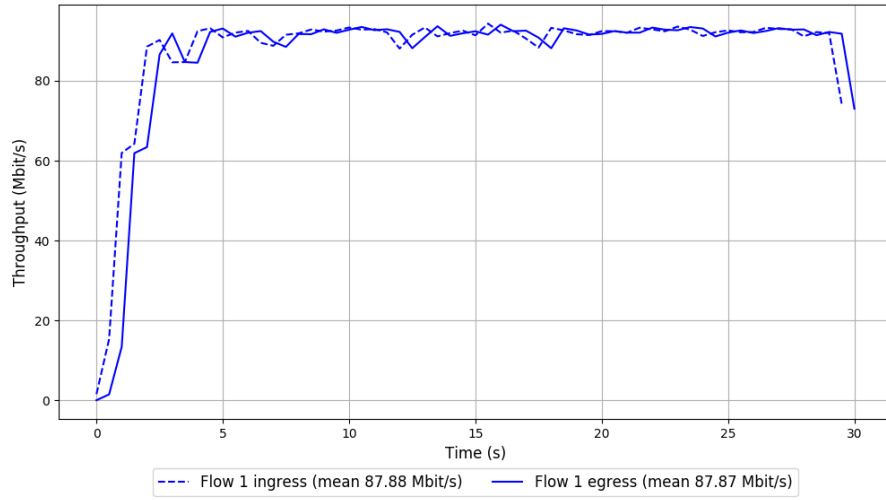
-- Flow 1:

Average throughput: 87.87 Mbit/s

95th percentile per-packet one-way delay: 19.165 ms

Loss rate: 0.09%

### Run 3: Report of PCC-Vivace — Data Link





Run 4: Statistics of PCC-Vivace

Start at: 2019-03-19 10:08:11

End at: 2019-03-19 10:08:41

Local clock offset: 0.861 ms

Remote clock offset: -3.799 ms

# Below is generated by plot.py at 2019-03-19 10:54:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.15 Mbit/s

95th percentile per-packet one-way delay: 18.166 ms

Loss rate: 0.09%

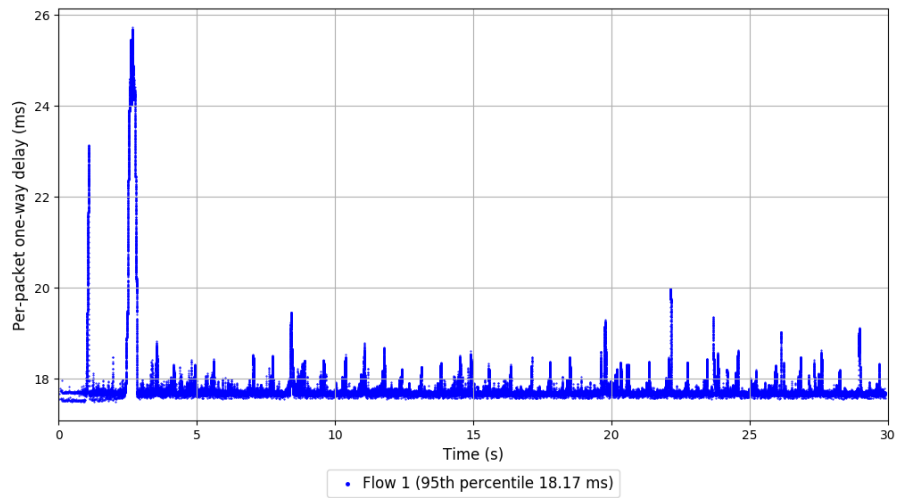
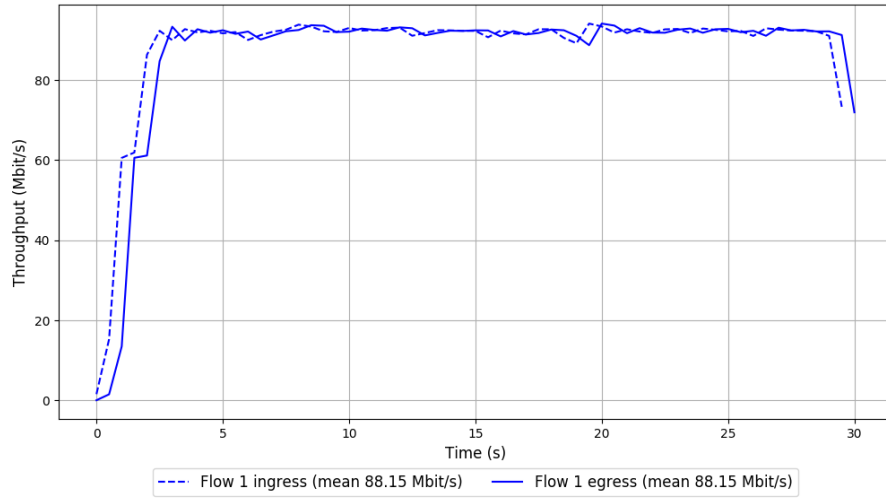
-- Flow 1:

Average throughput: 88.15 Mbit/s

95th percentile per-packet one-way delay: 18.166 ms

Loss rate: 0.09%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-03-19 10:32:13

End at: 2019-03-19 10:32:43

Local clock offset: -0.271 ms

Remote clock offset: -2.801 ms

# Below is generated by plot.py at 2019-03-19 10:54:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.50 Mbit/s

95th percentile per-packet one-way delay: 17.518 ms

Loss rate: 0.09%

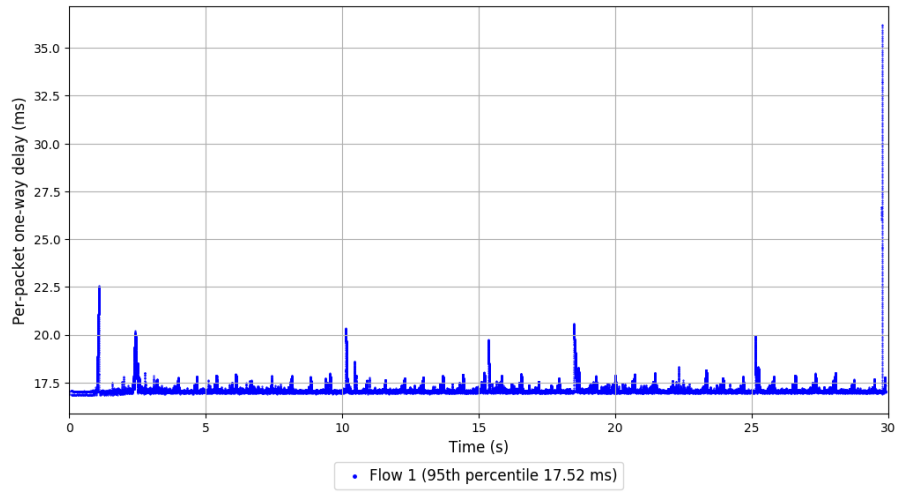
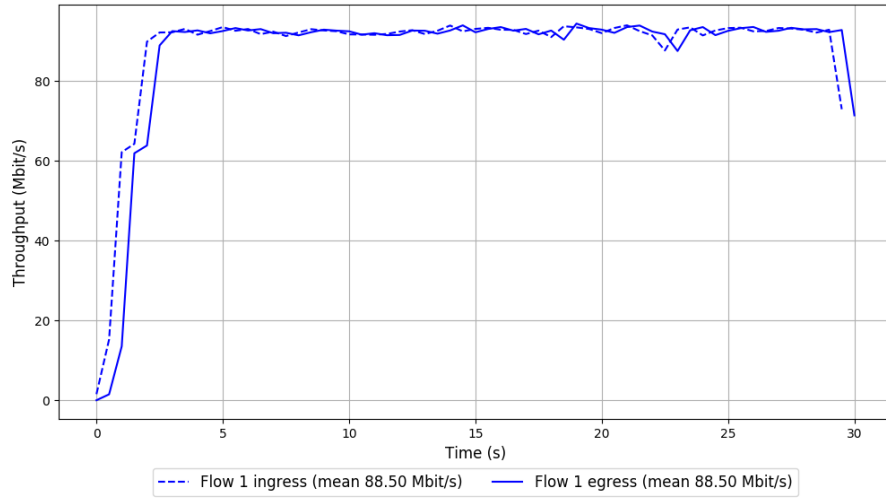
-- Flow 1:

Average throughput: 88.50 Mbit/s

95th percentile per-packet one-way delay: 17.518 ms

Loss rate: 0.09%

Run 5: Report of PCC-Vivace — Data Link

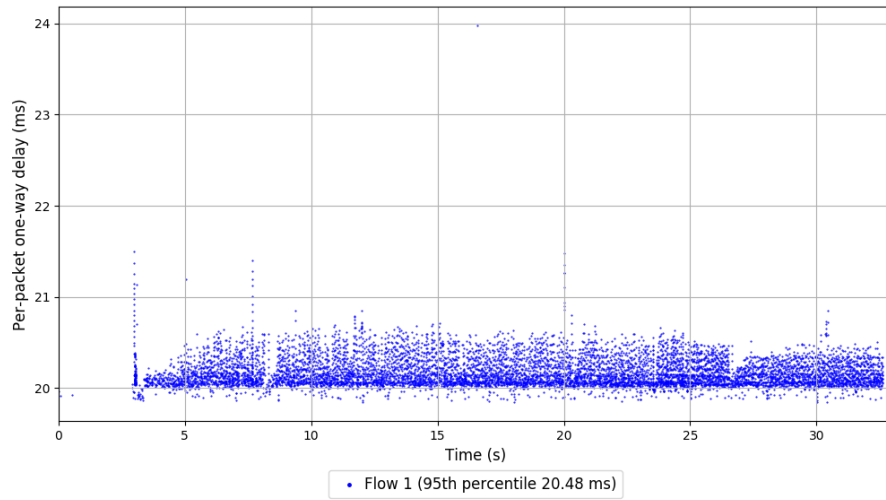
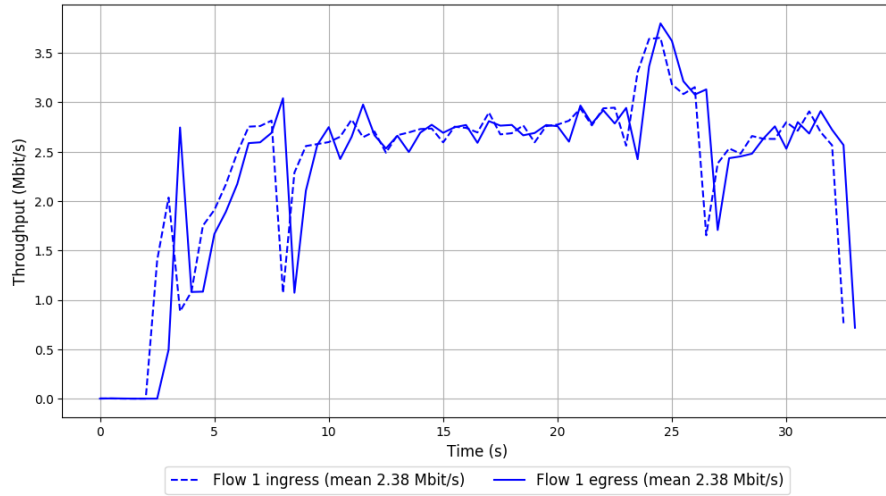


Run 1: Statistics of WebRTC media

Start at: 2019-03-19 08:40:54  
End at: 2019-03-19 08:41:24  
Local clock offset: 2.032 ms  
Remote clock offset: -3.892 ms

# Below is generated by plot.py at 2019-03-19 10:54:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.38 Mbit/s  
95th percentile per-packet one-way delay: 20.482 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 2.38 Mbit/s  
95th percentile per-packet one-way delay: 20.482 ms  
Loss rate: 0.09%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-03-19 09:05:54

End at: 2019-03-19 09:06:24

Local clock offset: 2.563 ms

Remote clock offset: -3.533 ms

# Below is generated by plot.py at 2019-03-19 10:54:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 18.339 ms

Loss rate: 0.13%

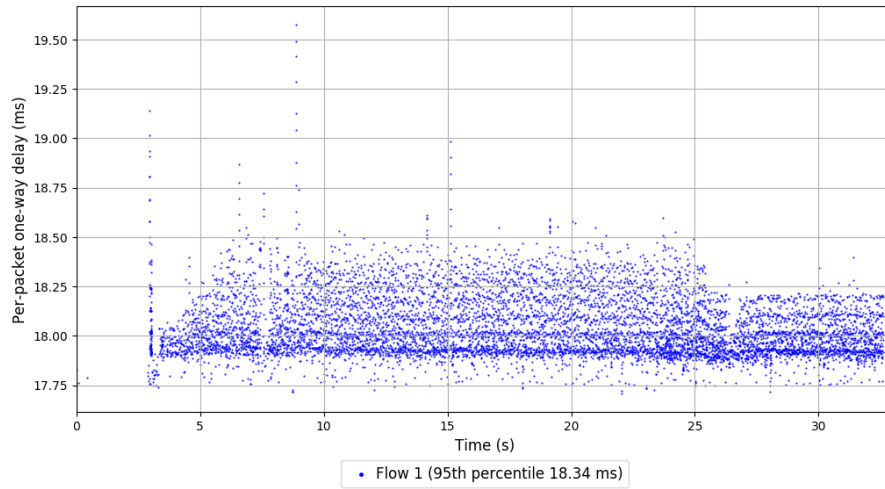
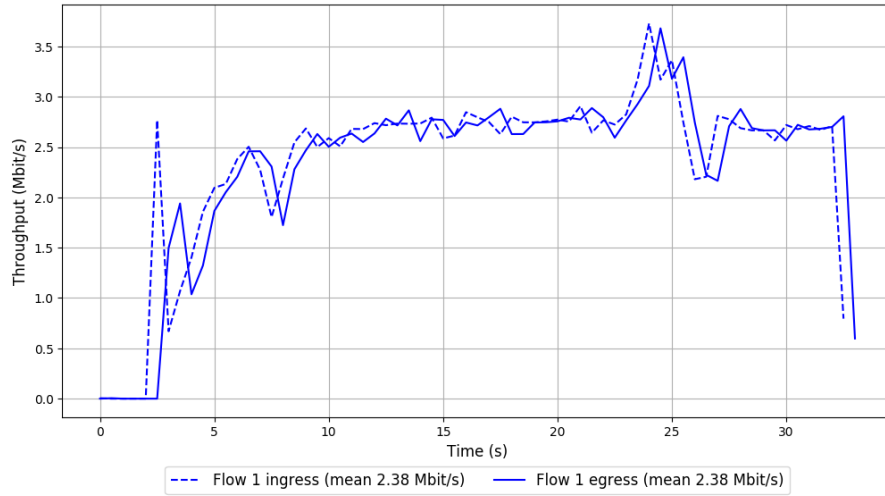
-- Flow 1:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 18.339 ms

Loss rate: 0.13%

Run 2: Report of WebRTC media — Data Link





Run 3: Statistics of WebRTC media

Start at: 2019-03-19 09:30:15

End at: 2019-03-19 09:30:45

Local clock offset: 0.662 ms

Remote clock offset: -4.09 ms

# Below is generated by plot.py at 2019-03-19 10:54:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 18.761 ms

Loss rate: 0.07%

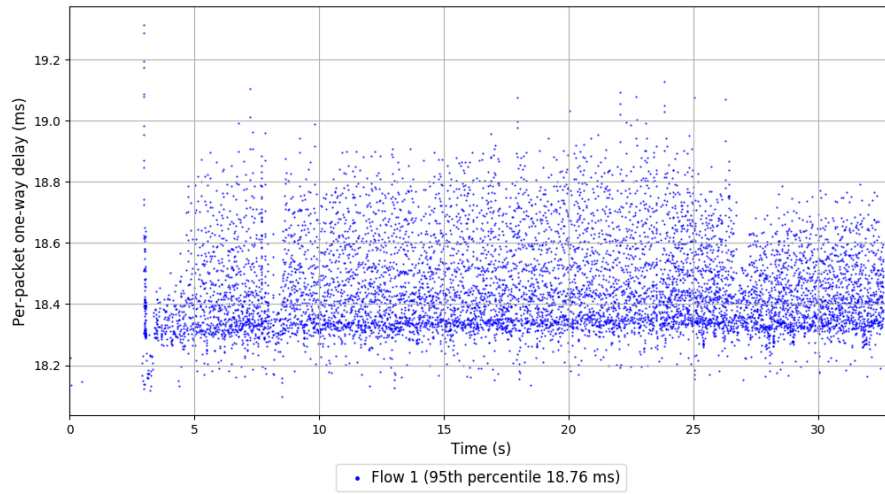
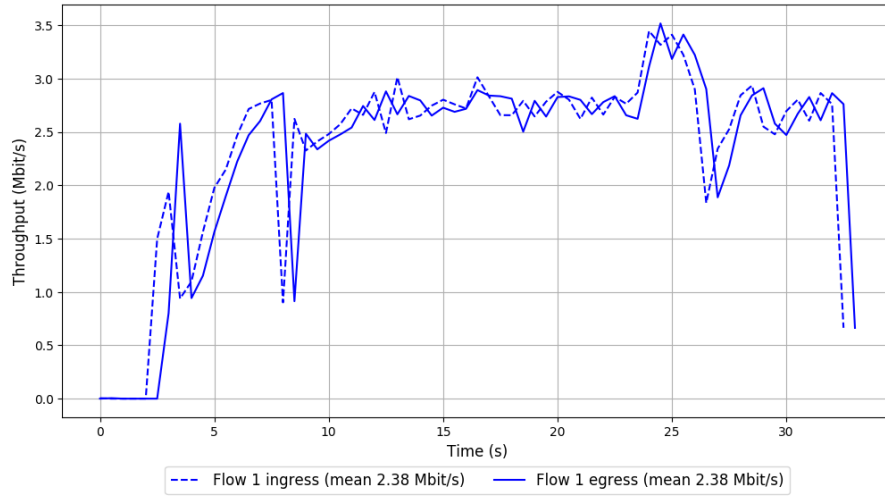
-- Flow 1:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 18.761 ms

Loss rate: 0.07%

### Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-03-19 09:54:28

End at: 2019-03-19 09:54:58

Local clock offset: 1.656 ms

Remote clock offset: -5.931 ms

# Below is generated by plot.py at 2019-03-19 10:54:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 21.295 ms

Loss rate: 0.06%

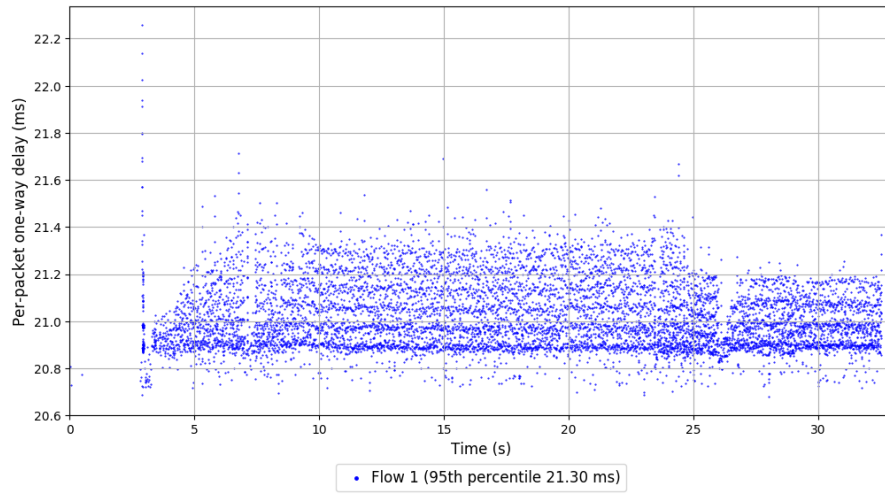
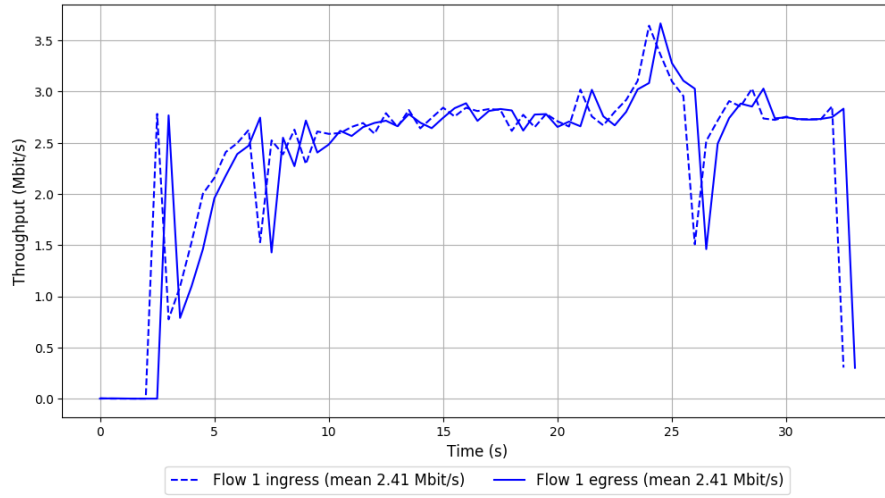
-- Flow 1:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 21.295 ms

Loss rate: 0.06%

#### Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-03-19 10:18:34

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

Local clock offset: 2.2 ms

Remote clock offset: -3.395 ms

# Below is generated by plot.py at 2019-03-19 10:54:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 22.786 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 22.786 ms

Loss rate: 0.11%

Run 5: Report of WebRTC media — Data Link

