

## Pantheon Report

Generated at 2019-03-27 08:53:08 (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.

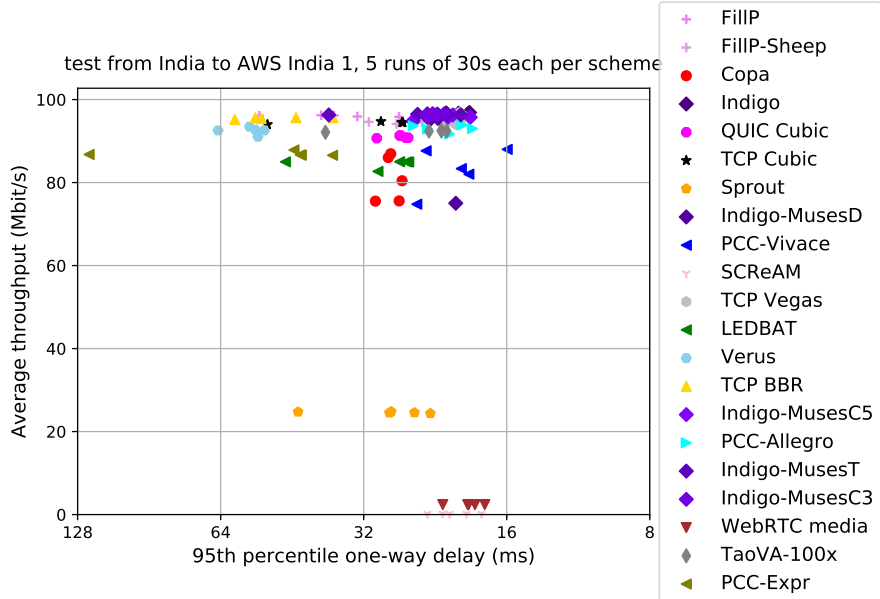
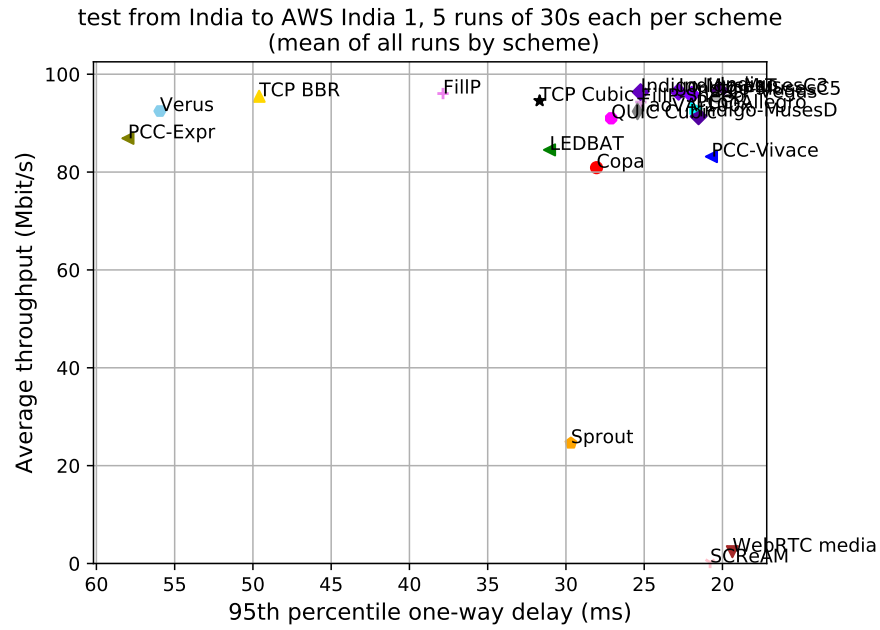
### System info:

```
Linux 4.15.0-1034-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	95.50	49.60	1.22
Copa	5	80.90	28.04	0.09
TCP Cubic	5	94.56	31.68	0.10
FillP	5	96.04	37.85	0.16
FillP-Sheep	5	94.31	25.21	0.10
Indigo	5	96.65	20.17	0.10
Indigo-MusesC3	5	96.39	22.80	0.09
Indigo-MusesC5	5	95.81	21.97	0.09
Indigo-MusesD	5	91.38	21.53	0.10
Indigo-MusesT	5	96.35	25.23	0.10
LEDBAT	5	84.53	31.05	0.09
PCC-Allegro	5	93.01	21.70	0.09
PCC-Expr	5	86.89	57.99	0.18
QUIC Cubic	5	90.99	27.11	0.12
SCReAM	5	0.21	20.79	0.13
Sprout	5	24.61	29.68	0.07
TaoVA-100x	5	92.40	25.43	0.10
TCP Vegas	5	95.21	20.33	0.11
Verus	5	92.47	55.94	0.28
PCC-Vivace	5	83.16	20.70	0.09
WebRTC media	5	2.40	19.37	0.10



Run 1: Statistics of TCP BBR

Start at: 2019-03-27 06:38:16

End at: 2019-03-27 06:38:46

Local clock offset: 0.1 ms

Remote clock offset: -13.891 ms

# Below is generated by plot.py at 2019-03-27 08:40:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.19 Mbit/s

95th percentile per-packet one-way delay: 59.768 ms

Loss rate: 1.23%

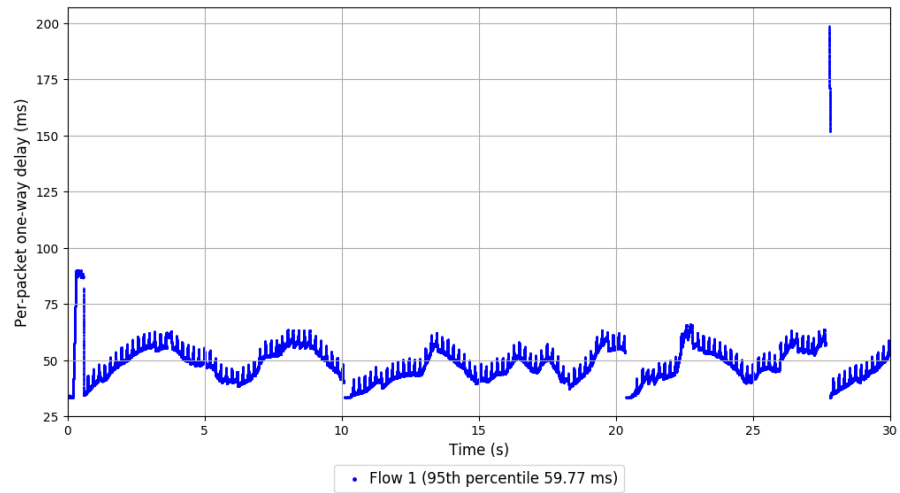
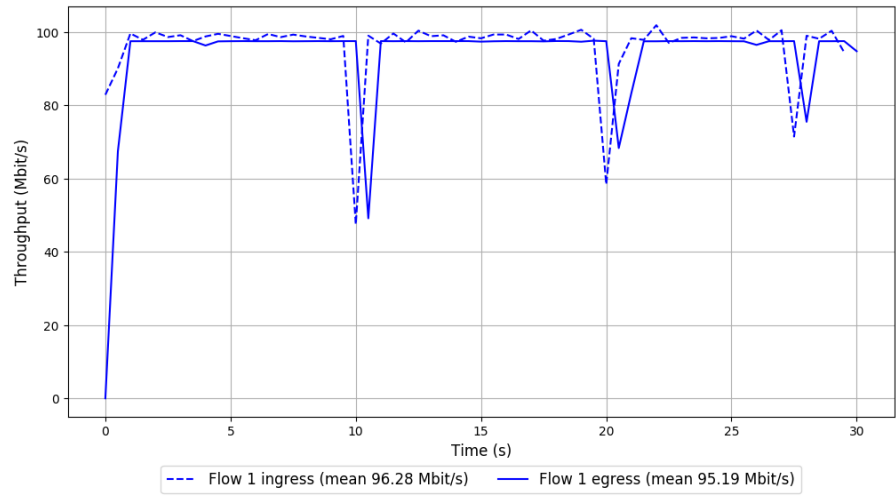
-- Flow 1:

Average throughput: 95.19 Mbit/s

95th percentile per-packet one-way delay: 59.768 ms

Loss rate: 1.23%

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



Run 2: Statistics of TCP BBR

Start at: 2019-03-27 07:04:22

End at: 2019-03-27 07:04:52

Local clock offset: -0.547 ms

Remote clock offset: -2.058 ms

# Below is generated by plot.py at 2019-03-27 08:40:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.63 Mbit/s

95th percentile per-packet one-way delay: 44.423 ms

Loss rate: 1.18%

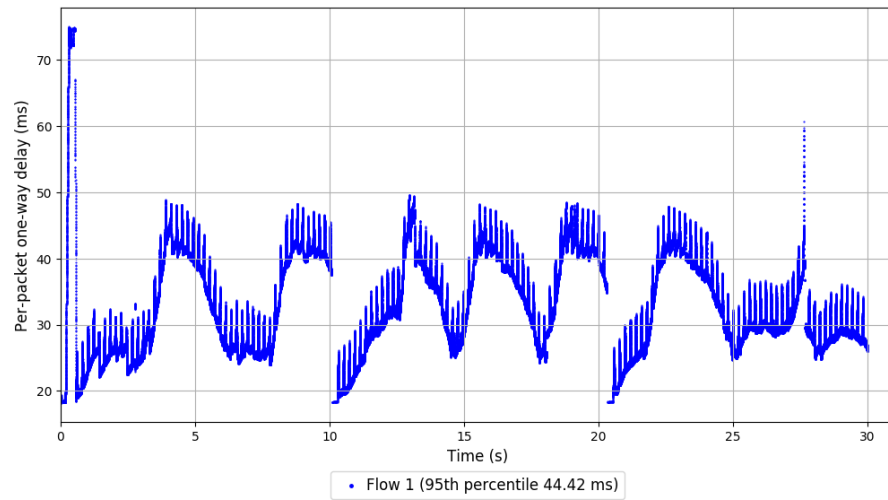
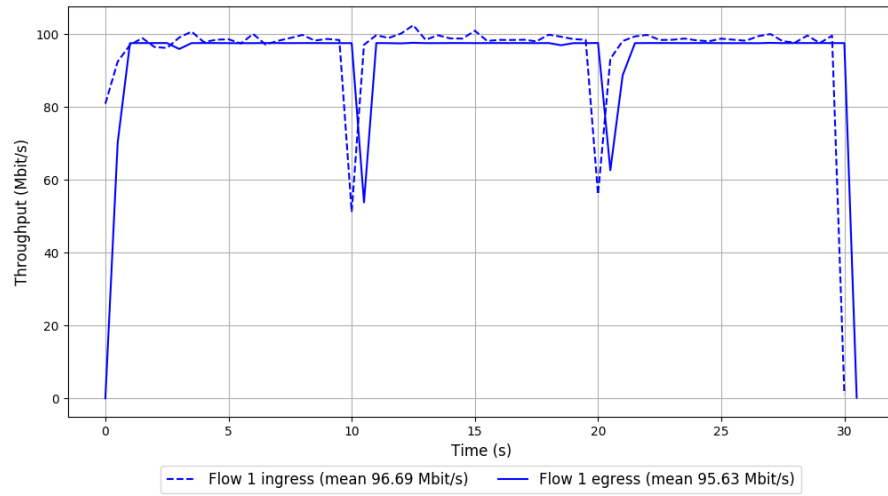
-- Flow 1:

Average throughput: 95.63 Mbit/s

95th percentile per-packet one-way delay: 44.423 ms

Loss rate: 1.18%

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

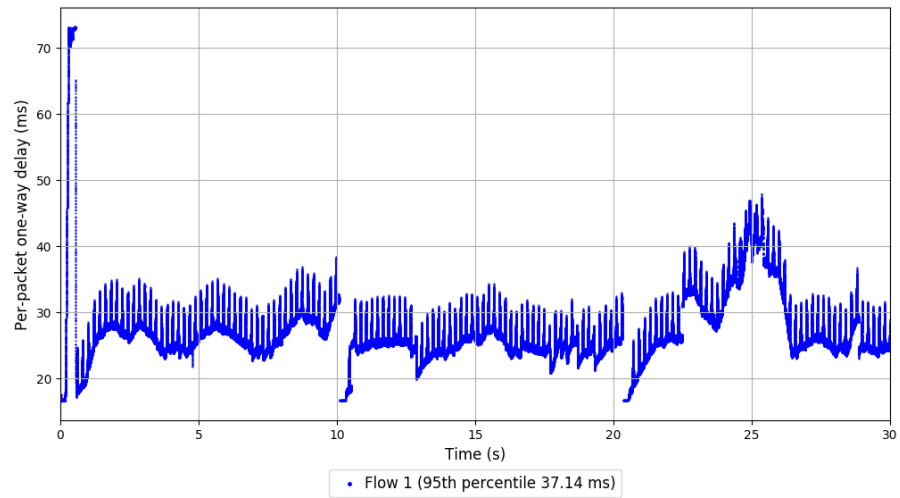
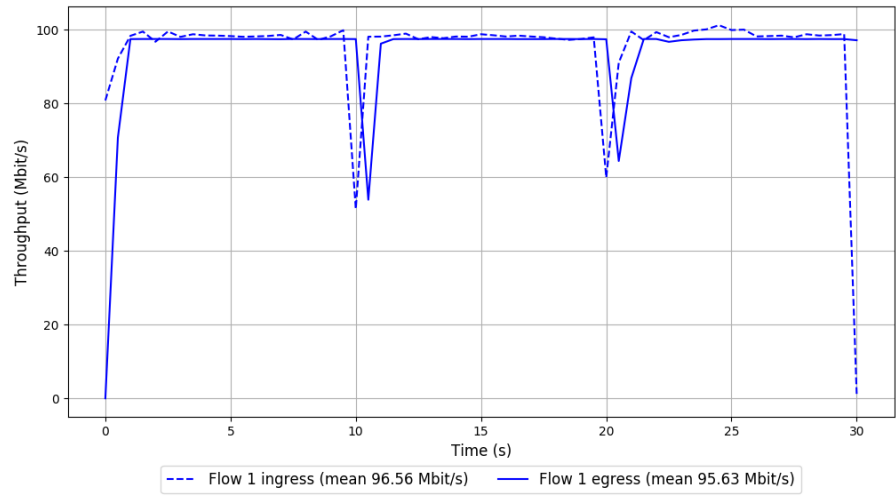


Run 3: Statistics of TCP BBR

Start at: 2019-03-27 07:30:42  
End at: 2019-03-27 07:31:12  
Local clock offset: -0.237 ms  
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-03-27 08:40:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.63 Mbit/s  
95th percentile per-packet one-way delay: 37.136 ms  
Loss rate: 1.05%  
-- Flow 1:  
Average throughput: 95.63 Mbit/s  
95th percentile per-packet one-way delay: 37.136 ms  
Loss rate: 1.05%

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

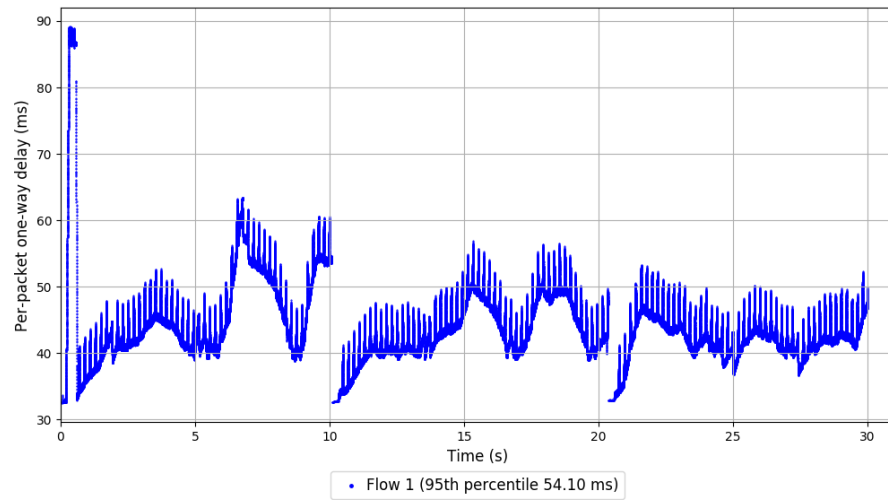
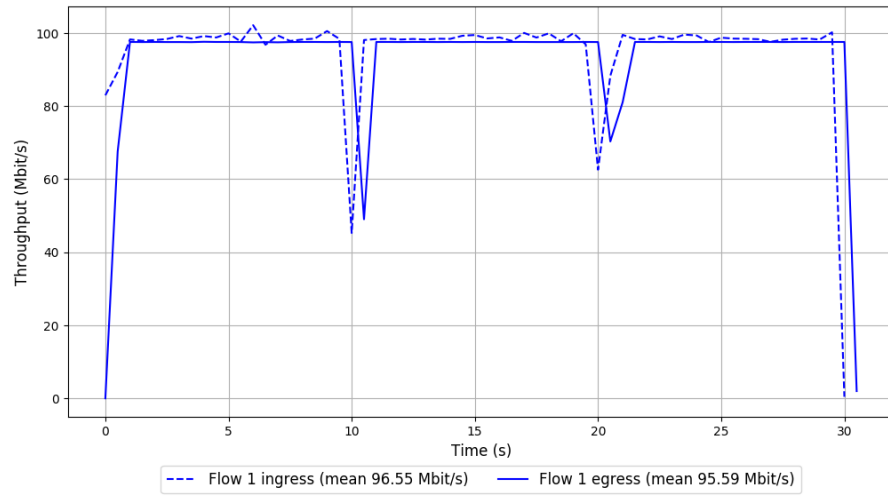


Run 4: Statistics of TCP BBR

Start at: 2019-03-27 07:55:16  
End at: 2019-03-27 07:55:46  
Local clock offset: 0.437 ms  
Remote clock offset: -12.252 ms

# Below is generated by plot.py at 2019-03-27 08:40:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.59 Mbit/s  
95th percentile per-packet one-way delay: 54.104 ms  
Loss rate: 1.08%  
-- Flow 1:  
Average throughput: 95.59 Mbit/s  
95th percentile per-packet one-way delay: 54.104 ms  
Loss rate: 1.08%

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





Run 5: Statistics of TCP BBR

Start at: 2019-03-27 08:19:52

End at: 2019-03-27 08:20:22

Local clock offset: -1.395 ms

Remote clock offset: 2.467 ms

# Below is generated by plot.py at 2019-03-27 08:40:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.44 Mbit/s

95th percentile per-packet one-way delay: 52.578 ms

Loss rate: 1.56%

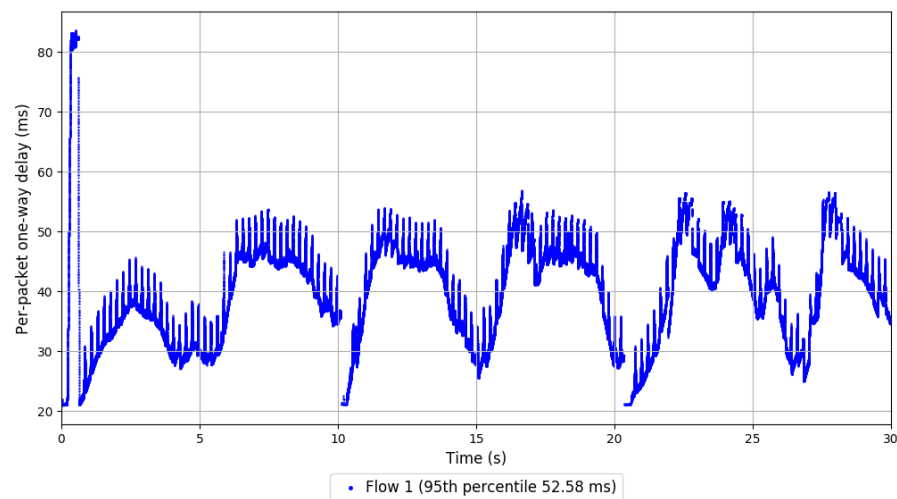
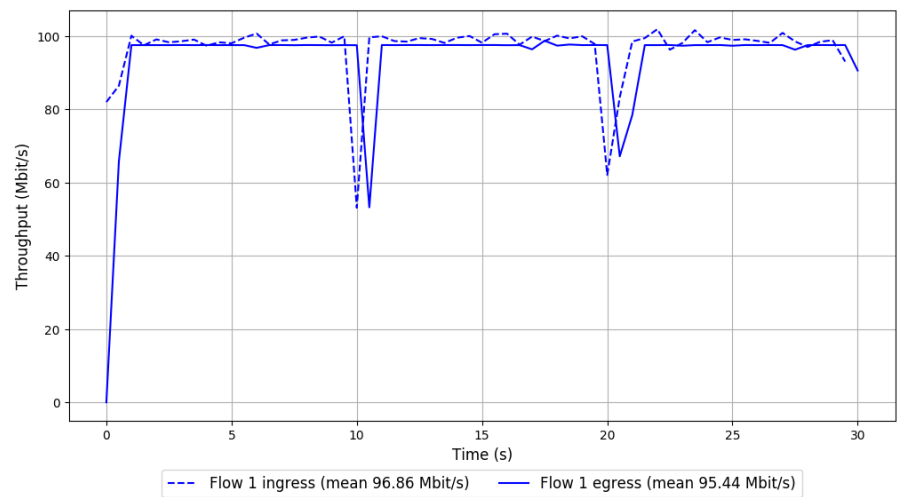
-- Flow 1:

Average throughput: 95.44 Mbit/s

95th percentile per-packet one-way delay: 52.578 ms

Loss rate: 1.56%

Run 5: Report of TCP BBR — Data Link

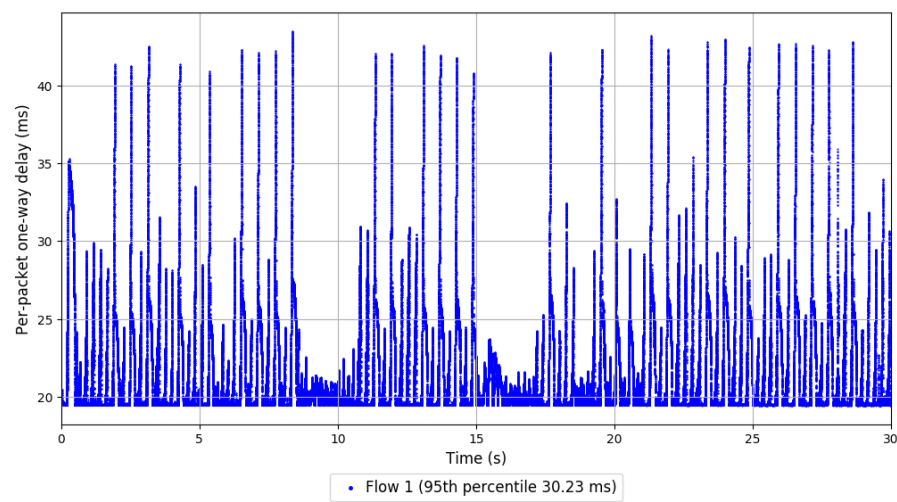
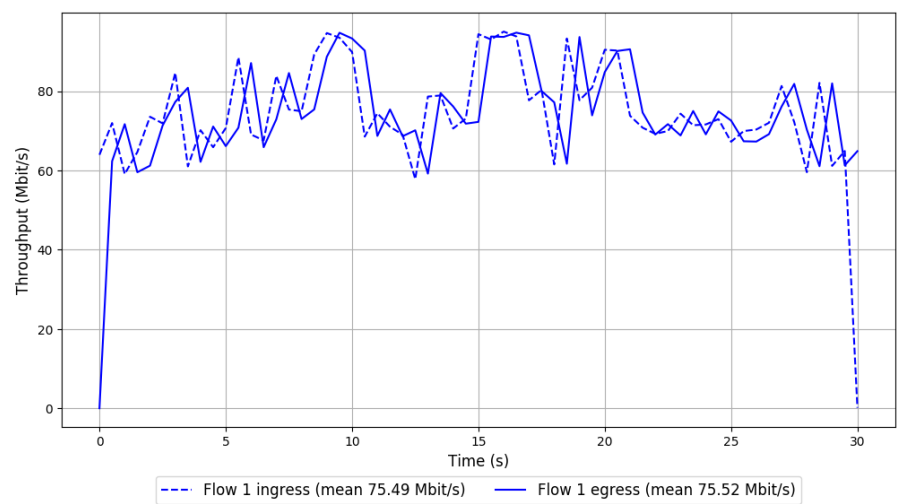


Run 1: Statistics of Copa

Start at: 2019-03-27 06:39:32  
End at: 2019-03-27 06:40:02  
Local clock offset: -0.853 ms  
Remote clock offset: -0.906 ms

# Below is generated by plot.py at 2019-03-27 08:40:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 75.52 Mbit/s  
95th percentile per-packet one-way delay: 30.233 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 75.52 Mbit/s  
95th percentile per-packet one-way delay: 30.233 ms  
Loss rate: 0.05%

Run 1: Report of Copa — Data Link

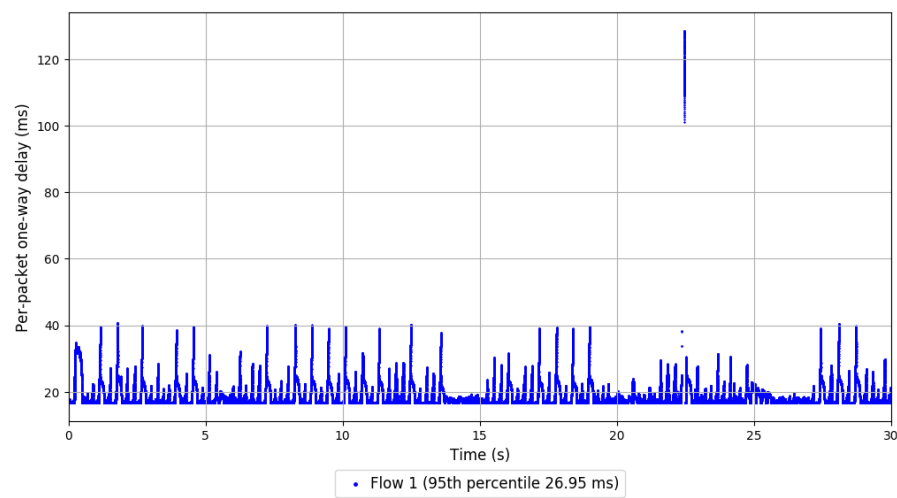
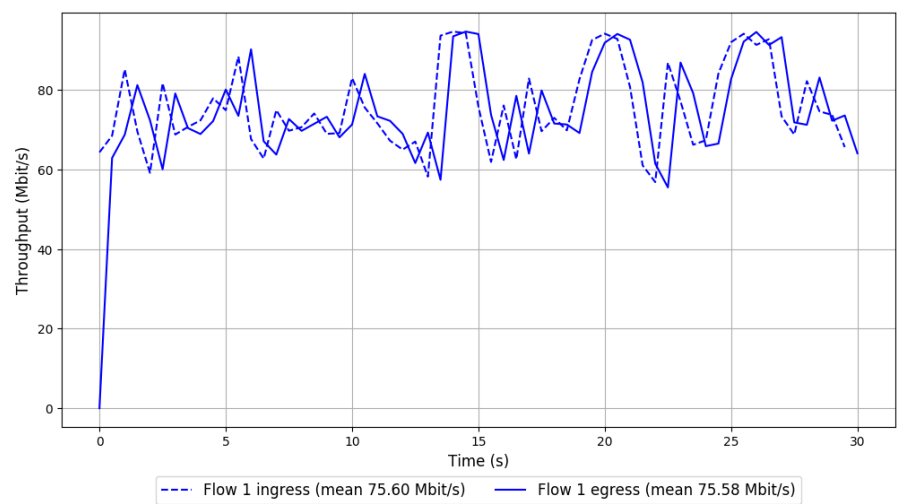


Run 2: Statistics of Copa

Start at: 2019-03-27 07:05:35  
End at: 2019-03-27 07:06:05  
Local clock offset: -0.373 ms  
Remote clock offset: -0.498 ms

# Below is generated by plot.py at 2019-03-27 08:40:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 75.58 Mbit/s  
95th percentile per-packet one-way delay: 26.946 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 75.58 Mbit/s  
95th percentile per-packet one-way delay: 26.946 ms  
Loss rate: 0.11%

Run 2: Report of Copa — Data Link

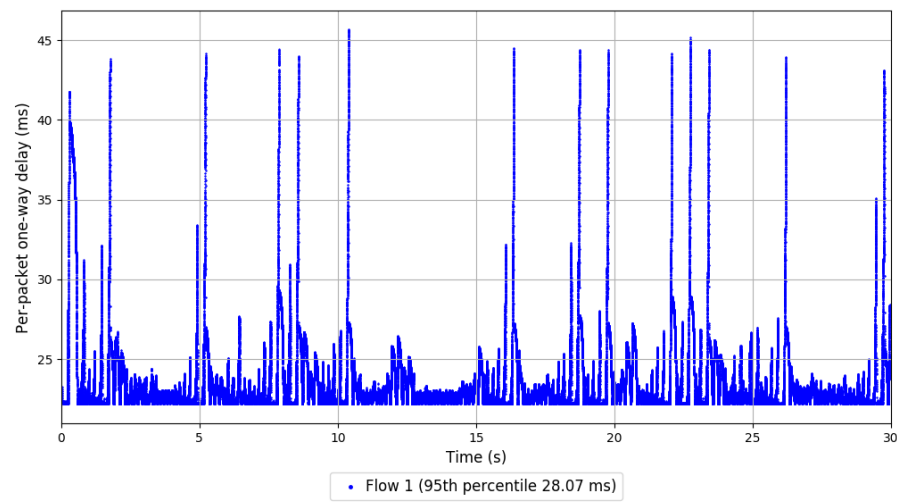
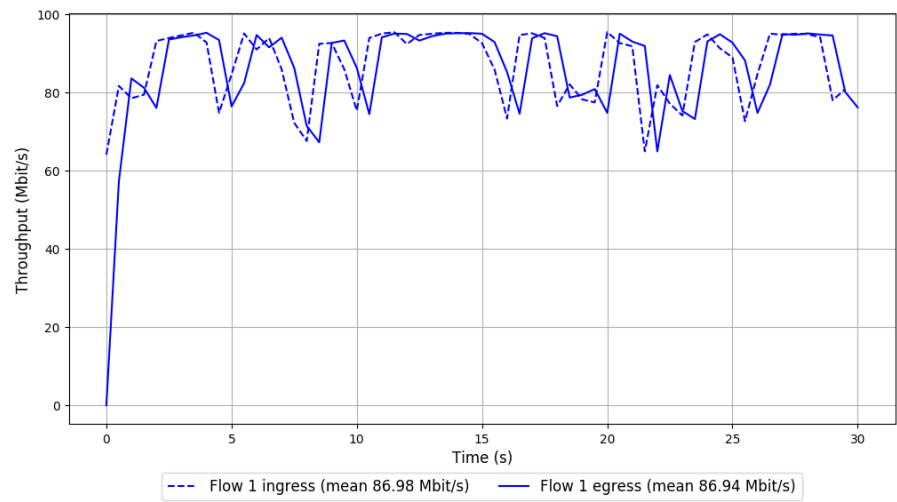


Run 3: Statistics of Copa

Start at: 2019-03-27 07:31:54  
End at: 2019-03-27 07:32:24  
Local clock offset: 2.212 ms  
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2019-03-27 08:41:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.94 Mbit/s  
95th percentile per-packet one-way delay: 28.071 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 86.94 Mbit/s  
95th percentile per-packet one-way delay: 28.071 ms  
Loss rate: 0.14%

Run 3: Report of Copa — Data Link





Run 4: Statistics of Copa

Start at: 2019-03-27 07:56:28

End at: 2019-03-27 07:56:58

Local clock offset: 0.202 ms

Remote clock offset: 1.377 ms

# Below is generated by plot.py at 2019-03-27 08:42:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.02 Mbit/s

95th percentile per-packet one-way delay: 28.405 ms

Loss rate: 0.08%

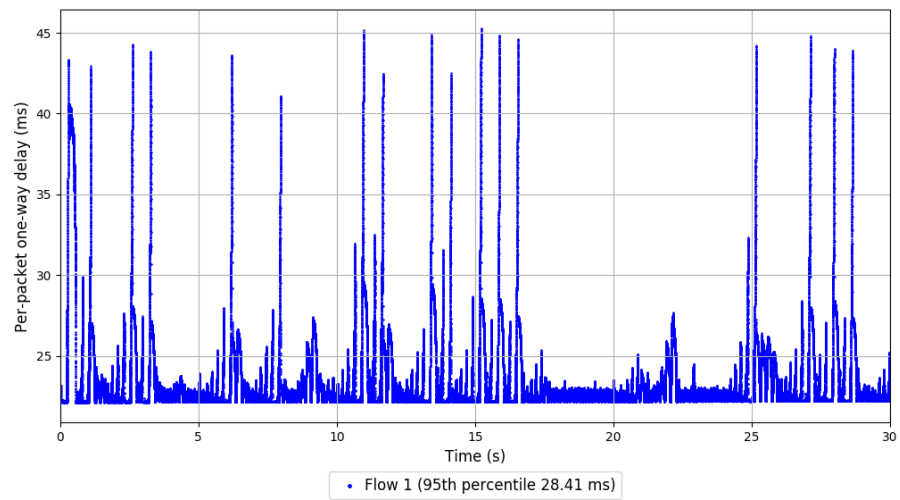
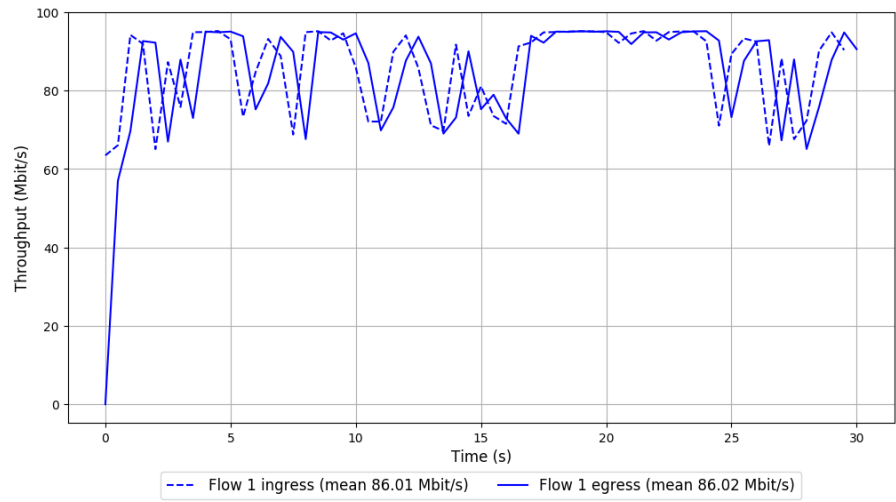
-- Flow 1:

Average throughput: 86.02 Mbit/s

95th percentile per-packet one-way delay: 28.405 ms

Loss rate: 0.08%

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



Run 5: Statistics of Copa

Start at: 2019-03-27 08:21:05

End at: 2019-03-27 08:21:35

Local clock offset: -1.54 ms

Remote clock offset: 2.48 ms

# Below is generated by plot.py at 2019-03-27 08:42:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.44 Mbit/s

95th percentile per-packet one-way delay: 26.568 ms

Loss rate: 0.09%

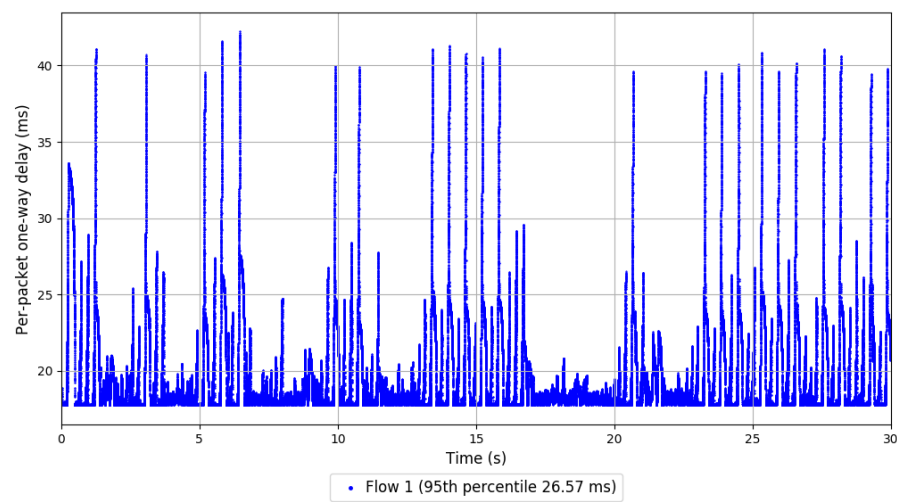
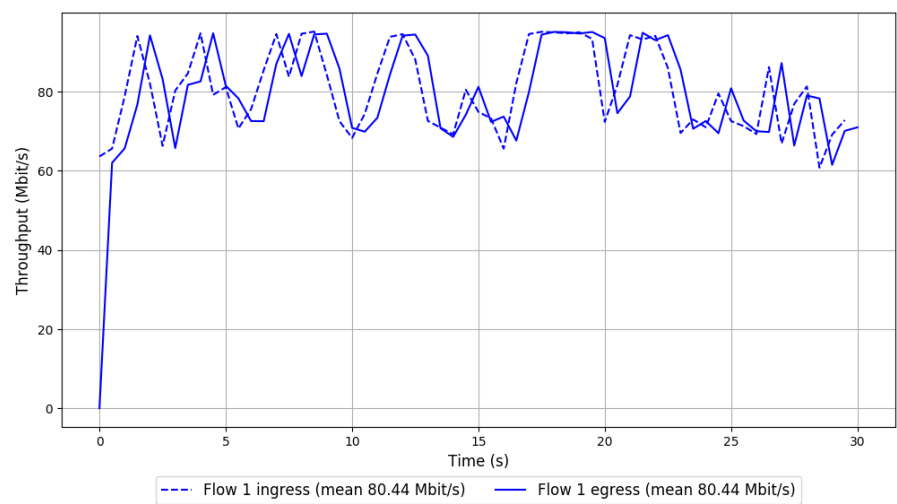
-- Flow 1:

Average throughput: 80.44 Mbit/s

95th percentile per-packet one-way delay: 26.568 ms

Loss rate: 0.09%

Run 5: Report of Copa — Data Link

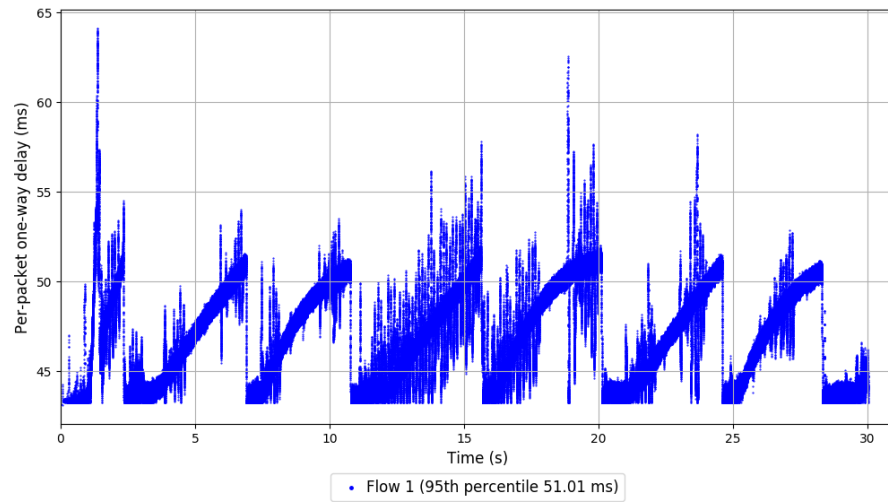
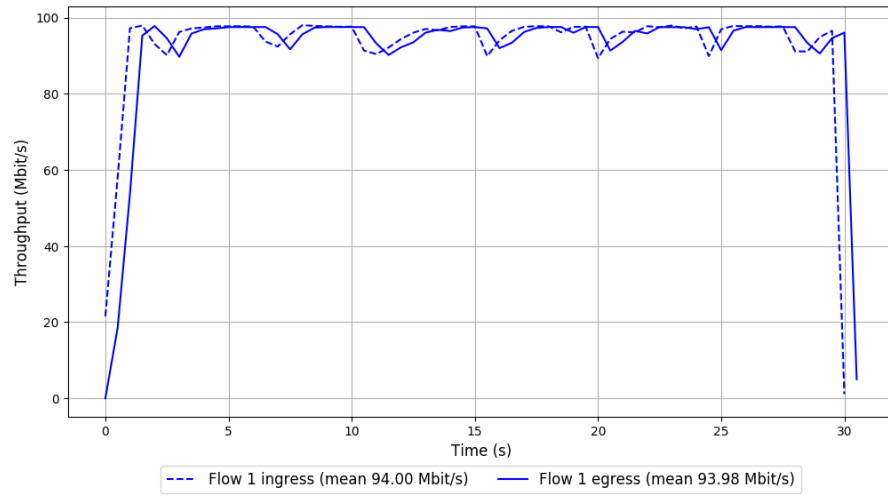


Run 1: Statistics of TCP Cubic

Start at: 2019-03-27 06:43:43  
End at: 2019-03-27 06:44:13  
Local clock offset: 0.551 ms  
Remote clock offset: -23.382 ms

# Below is generated by plot.py at 2019-03-27 08:42:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 93.98 Mbit/s  
95th percentile per-packet one-way delay: 51.008 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 93.98 Mbit/s  
95th percentile per-packet one-way delay: 51.008 ms  
Loss rate: 0.09%

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

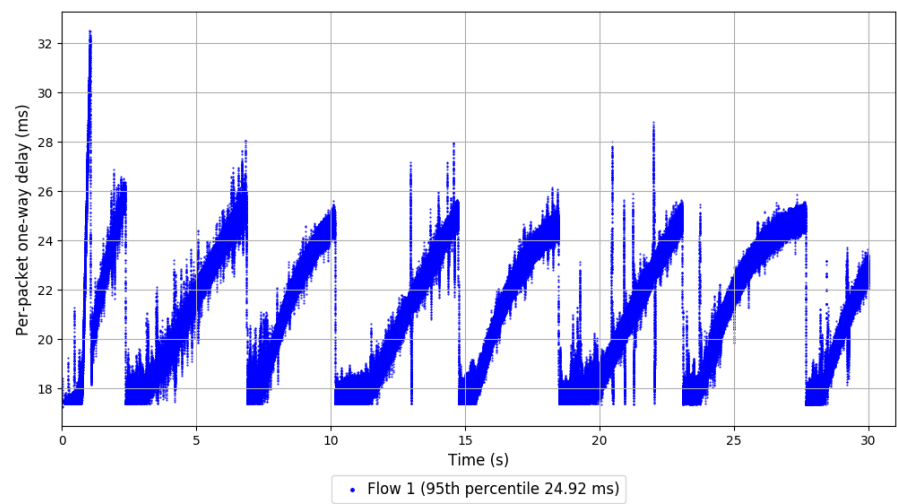
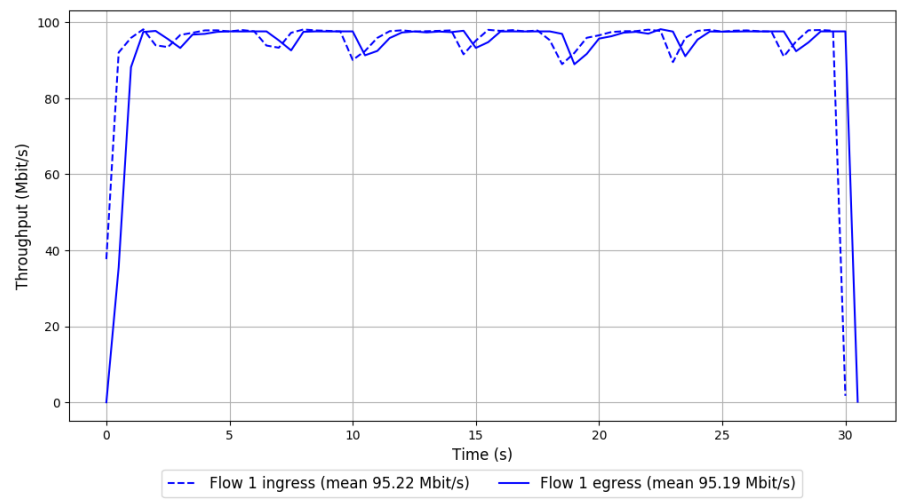


Run 2: Statistics of TCP Cubic

Start at: 2019-03-27 07:09:48  
End at: 2019-03-27 07:10:18  
Local clock offset: 0.08 ms  
Remote clock offset: -1.087 ms

# Below is generated by plot.py at 2019-03-27 08:42:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.19 Mbit/s  
95th percentile per-packet one-way delay: 24.921 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 95.19 Mbit/s  
95th percentile per-packet one-way delay: 24.921 ms  
Loss rate: 0.11%

Run 2: Report of TCP Cubic — Data Link





Run 3: Statistics of TCP Cubic

Start at: 2019-03-27 07:35:28

End at: 2019-03-27 07:35:58

Local clock offset: 2.024 ms

Remote clock offset: 0.086 ms

# Below is generated by plot.py at 2019-03-27 08:42:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.70 Mbit/s

95th percentile per-packet one-way delay: 29.435 ms

Loss rate: 0.12%

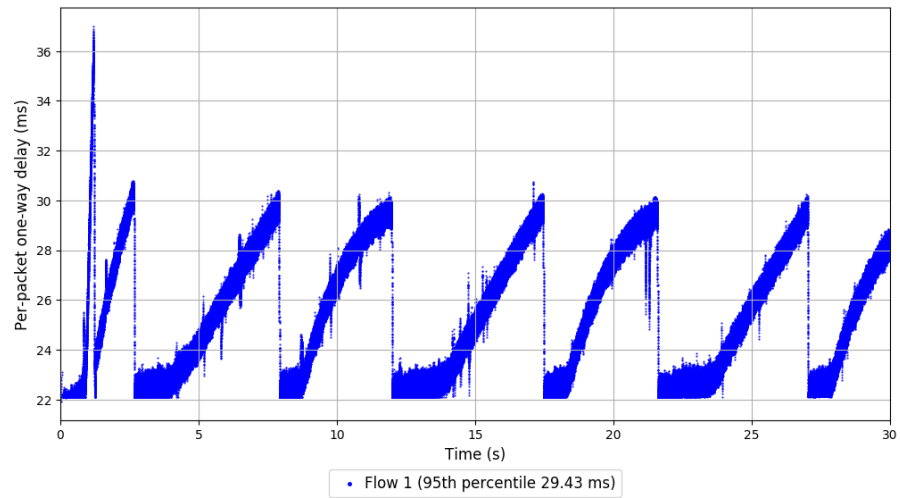
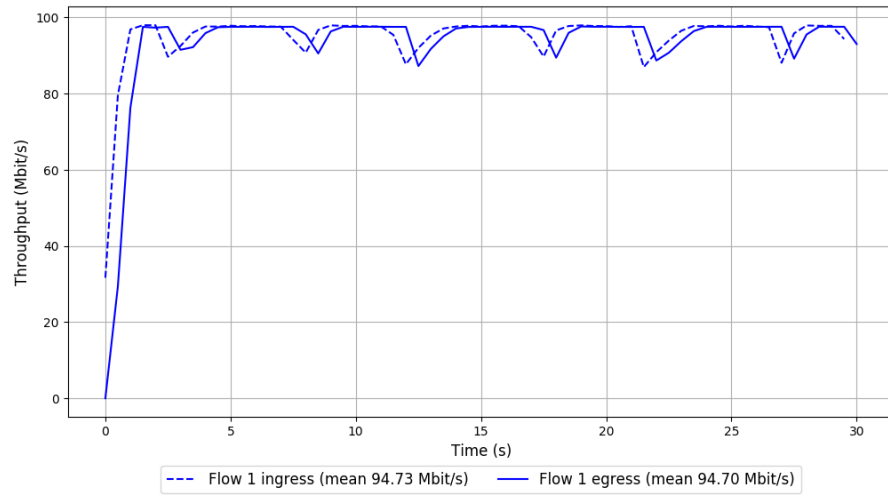
-- Flow 1:

Average throughput: 94.70 Mbit/s

95th percentile per-packet one-way delay: 29.435 ms

Loss rate: 0.12%

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



Run 4: Statistics of TCP Cubic

Start at: 2019-03-27 08:00:04

End at: 2019-03-27 08:00:34

Local clock offset: -0.587 ms

Remote clock offset: 0.804 ms

# Below is generated by plot.py at 2019-03-27 08:42:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.47 Mbit/s

95th percentile per-packet one-way delay: 26.606 ms

Loss rate: 0.10%

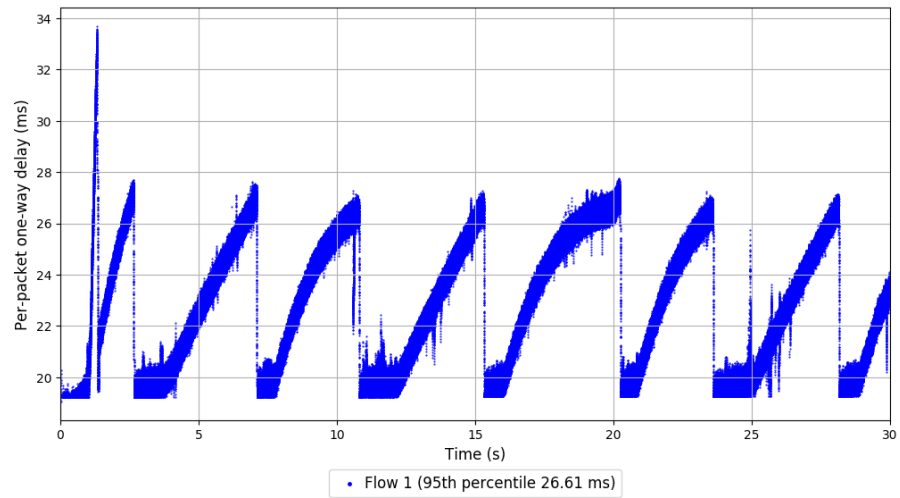
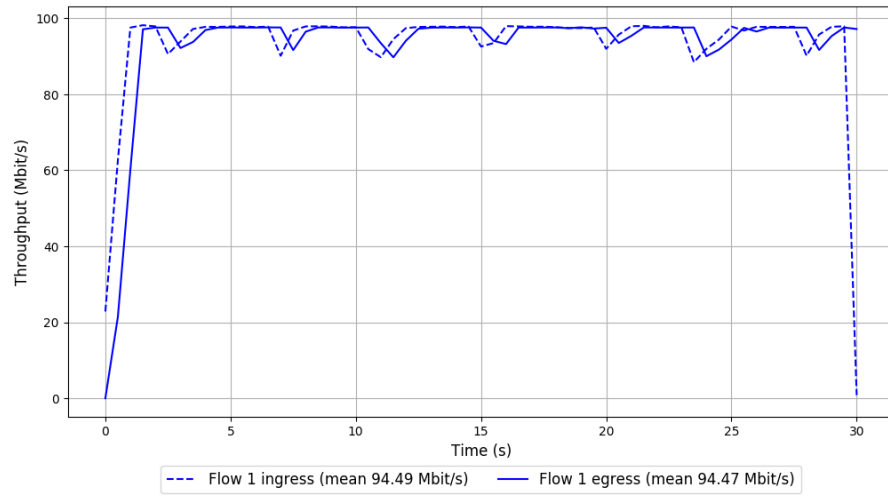
-- Flow 1:

Average throughput: 94.47 Mbit/s

95th percentile per-packet one-way delay: 26.606 ms

Loss rate: 0.10%

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



Run 5: Statistics of TCP Cubic

Start at: 2019-03-27 08:24:51

End at: 2019-03-27 08:25:21

Local clock offset: -1.577 ms

Remote clock offset: 1.478 ms

# Below is generated by plot.py at 2019-03-27 08:42:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.46 Mbit/s

95th percentile per-packet one-way delay: 26.448 ms

Loss rate: 0.10%

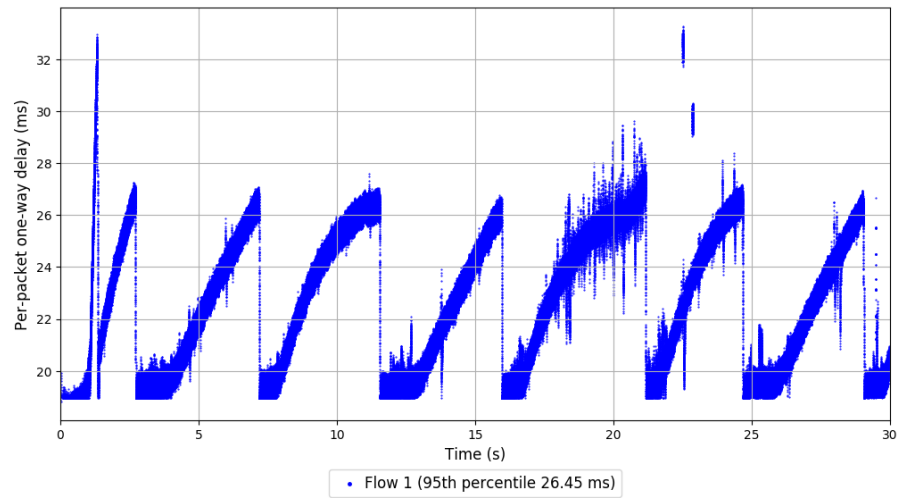
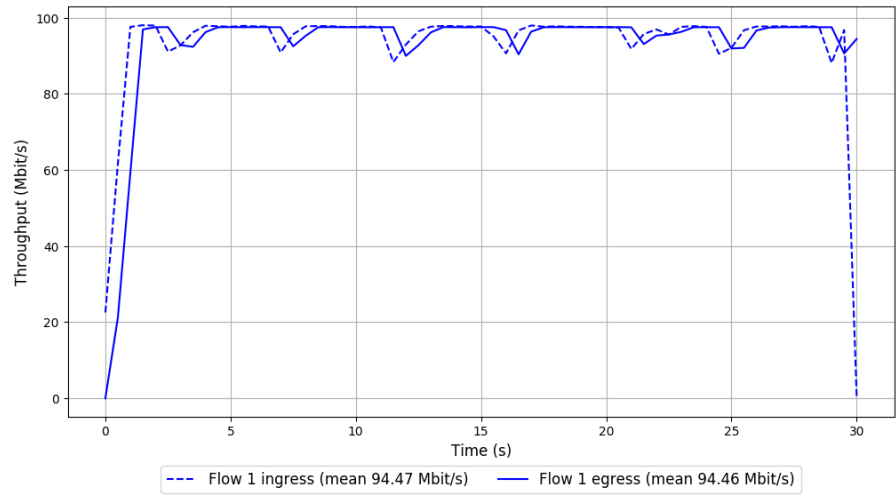
-- Flow 1:

Average throughput: 94.46 Mbit/s

95th percentile per-packet one-way delay: 26.448 ms

Loss rate: 0.10%

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

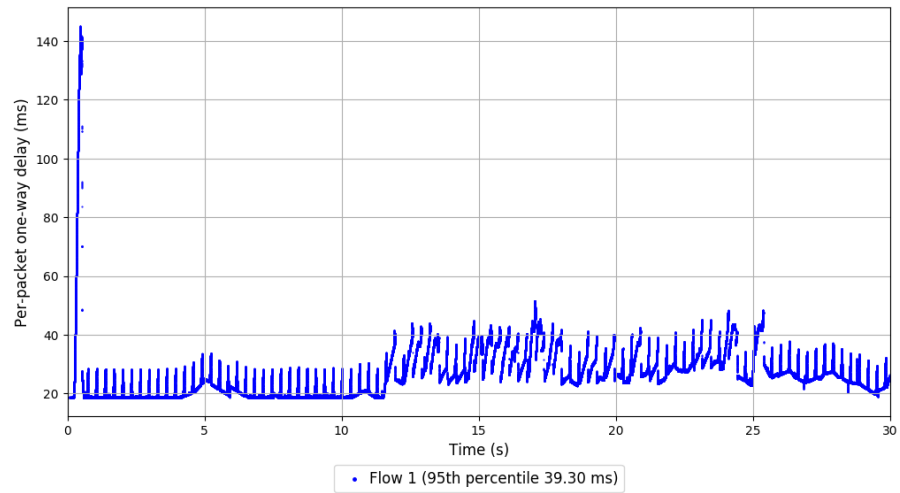
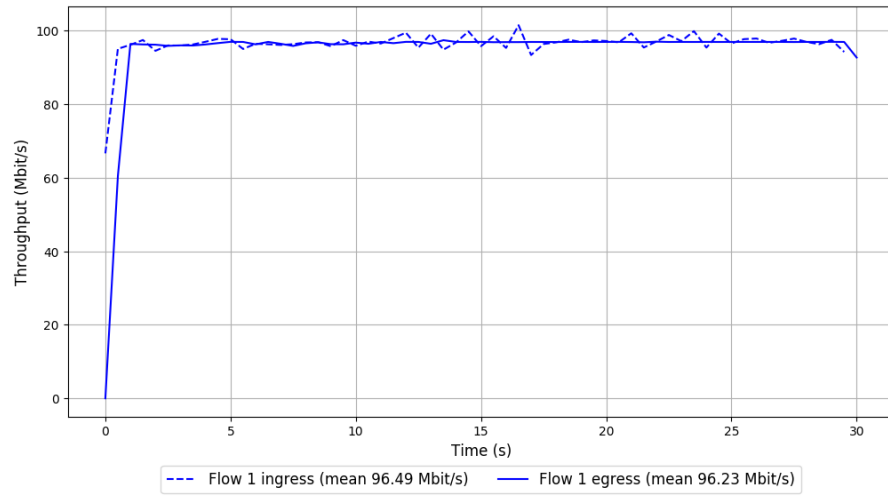


Run 1: Statistics of FillP

Start at: 2019-03-27 06:31:04  
End at: 2019-03-27 06:31:34  
Local clock offset: -0.991 ms  
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2019-03-27 08:42:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.23 Mbit/s  
95th percentile per-packet one-way delay: 39.304 ms  
Loss rate: 0.36%  
-- Flow 1:  
Average throughput: 96.23 Mbit/s  
95th percentile per-packet one-way delay: 39.304 ms  
Loss rate: 0.36%

## Run 1: Report of FillP — Data Link



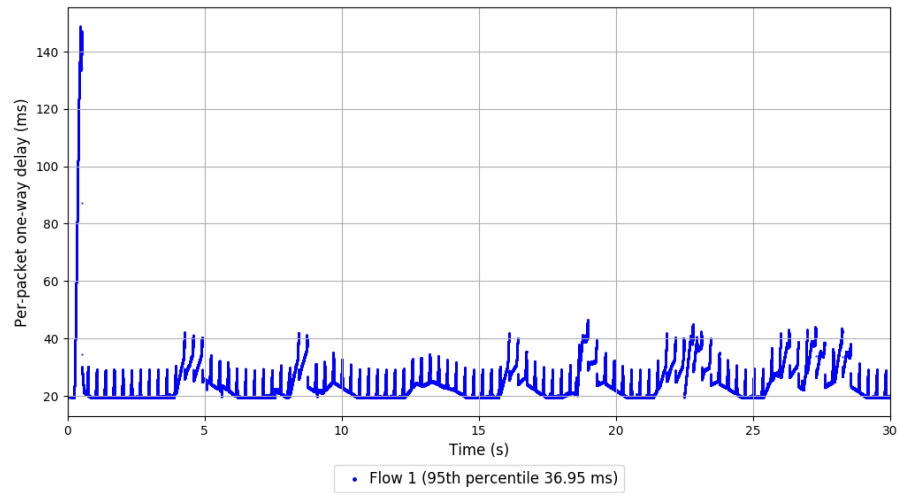
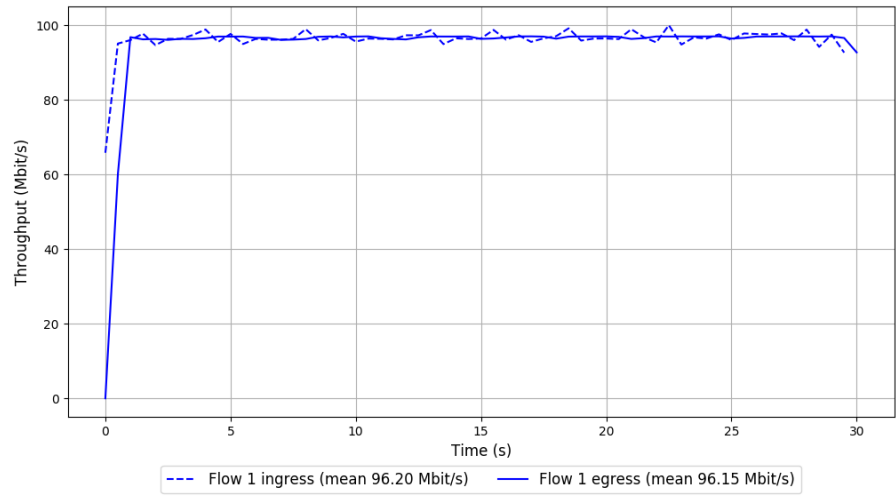


Run 2: Statistics of FillP

Start at: 2019-03-27 06:57:12  
End at: 2019-03-27 06:57:42  
Local clock offset: -1.852 ms  
Remote clock offset: -3.963 ms

# Below is generated by plot.py at 2019-03-27 08:42:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.15 Mbit/s  
95th percentile per-packet one-way delay: 36.954 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 96.15 Mbit/s  
95th percentile per-packet one-way delay: 36.954 ms  
Loss rate: 0.13%

## Run 2: Report of FillP — Data Link

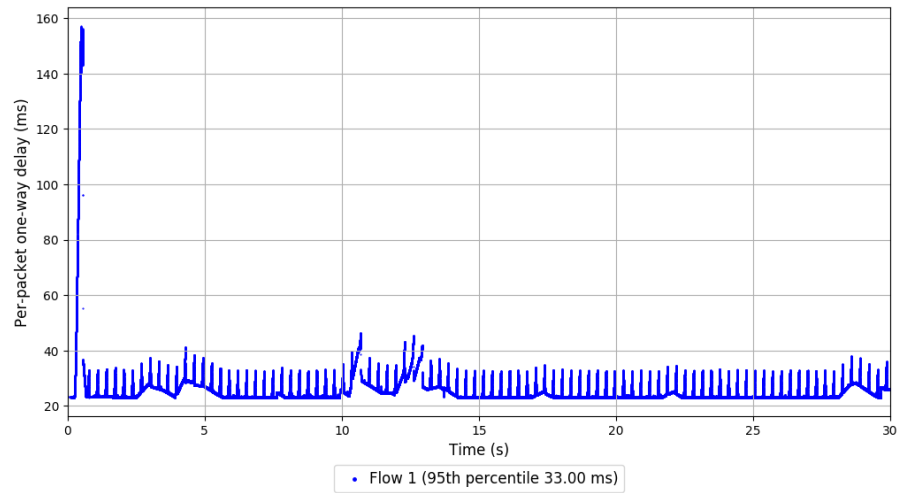
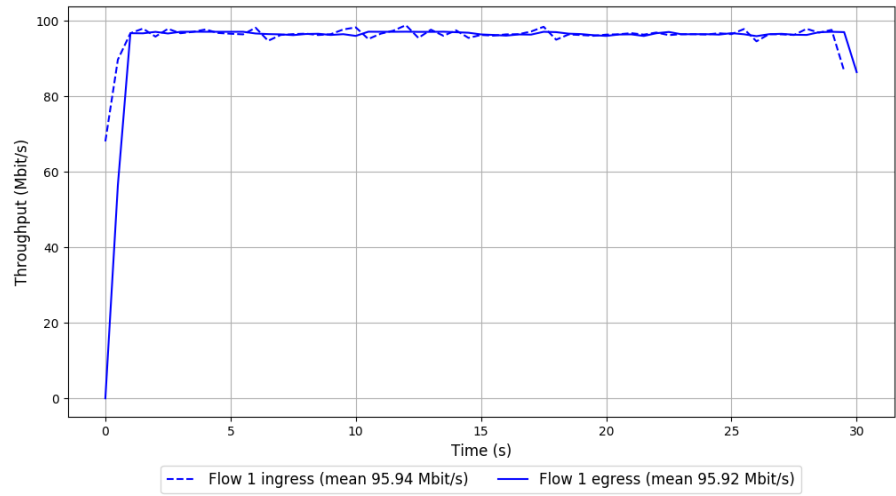


Run 3: Statistics of FillP

Start at: 2019-03-27 07:23:42  
End at: 2019-03-27 07:24:12  
Local clock offset: 2.46 ms  
Remote clock offset: -0.991 ms

# Below is generated by plot.py at 2019-03-27 08:42:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.92 Mbit/s  
95th percentile per-packet one-way delay: 32.996 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 95.92 Mbit/s  
95th percentile per-packet one-way delay: 32.996 ms  
Loss rate: 0.11%

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

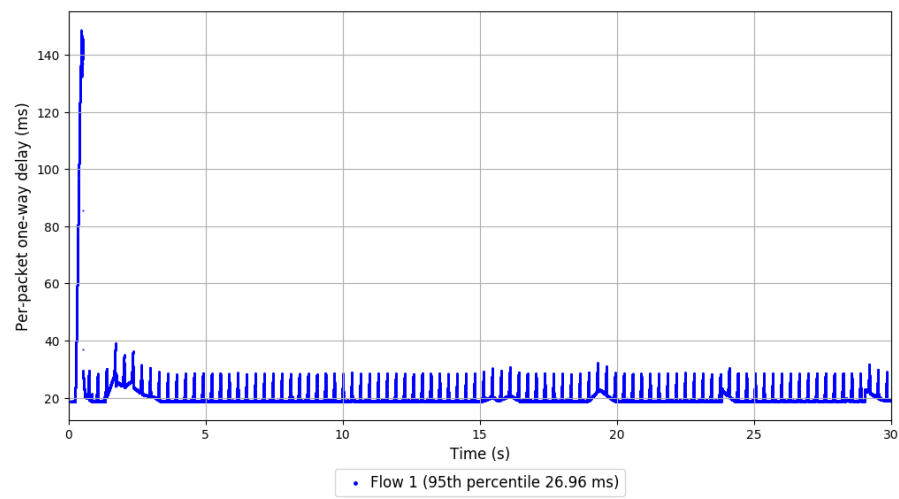
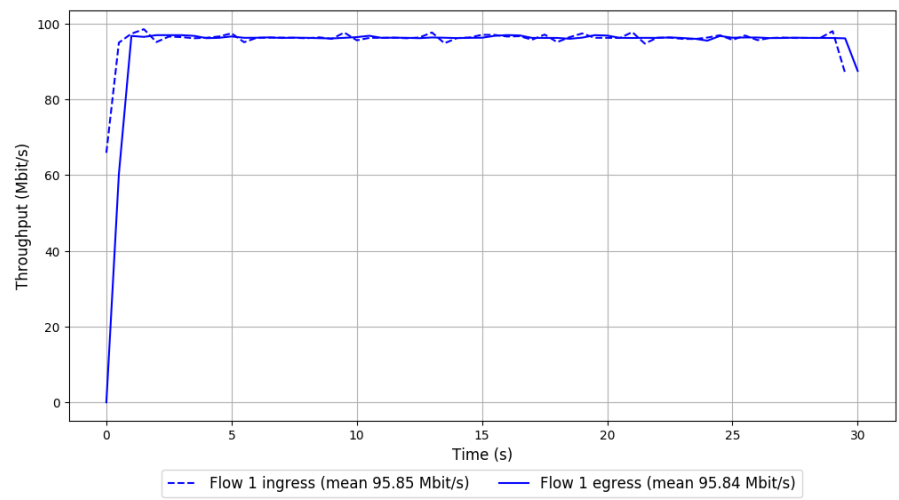


Run 4: Statistics of FillP

Start at: 2019-03-27 07:48:17  
End at: 2019-03-27 07:48:47  
Local clock offset: -0.015 ms  
Remote clock offset: -0.431 ms

# Below is generated by plot.py at 2019-03-27 08:42:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.84 Mbit/s  
95th percentile per-packet one-way delay: 26.961 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 95.84 Mbit/s  
95th percentile per-packet one-way delay: 26.961 ms  
Loss rate: 0.09%

Run 4: Report of FillP — Data Link

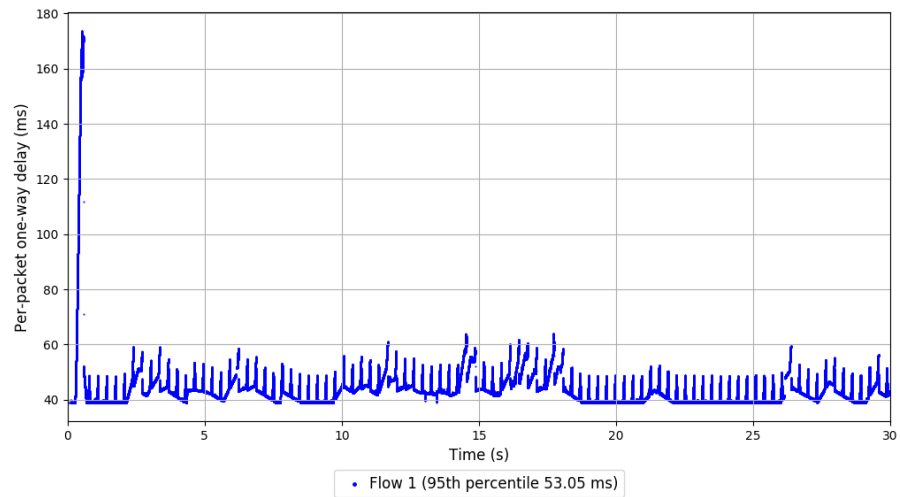
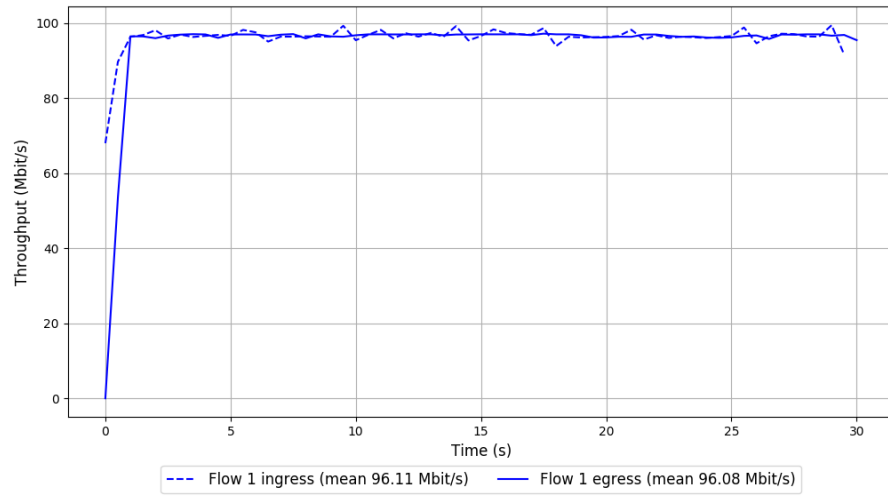


Run 5: Statistics of FillP

Start at: 2019-03-27 08:12:46  
End at: 2019-03-27 08:13:16  
Local clock offset: -0.099 ms  
Remote clock offset: -14.574 ms

# Below is generated by plot.py at 2019-03-27 08:43:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.08 Mbit/s  
95th percentile per-packet one-way delay: 53.052 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 96.08 Mbit/s  
95th percentile per-packet one-way delay: 53.052 ms  
Loss rate: 0.12%

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



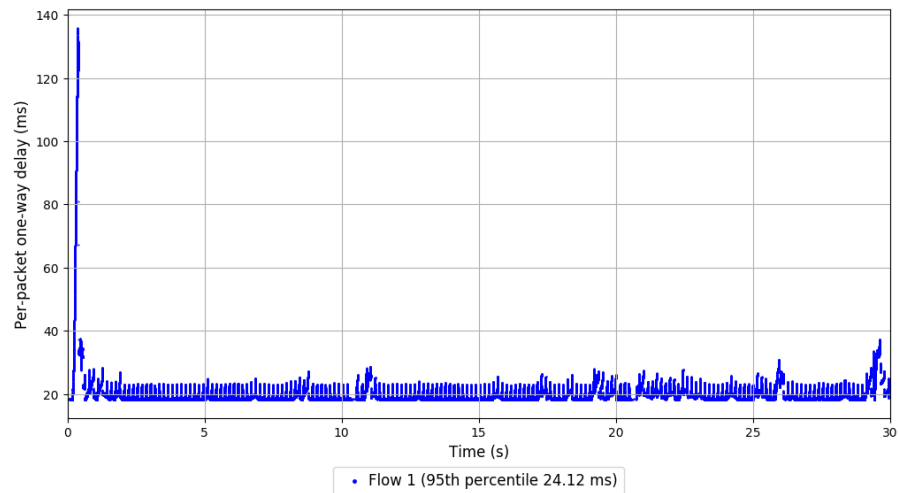
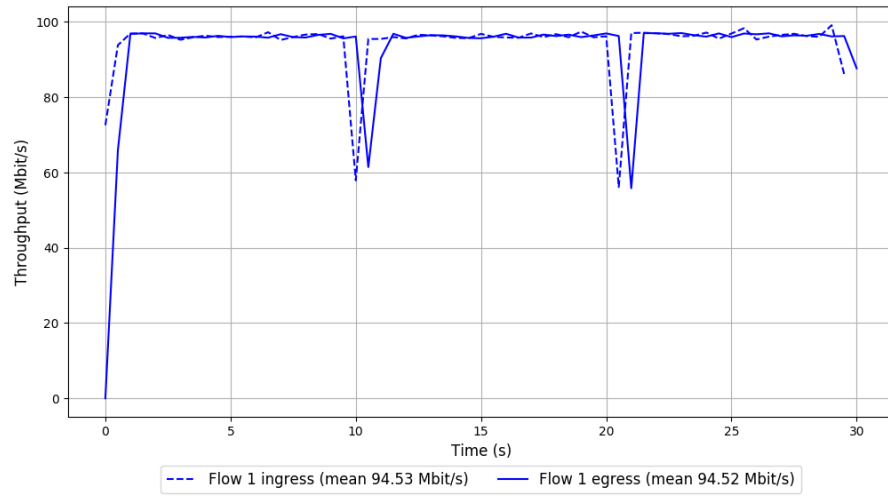


Run 1: Statistics of FillP-Sheep

Start at: 2019-03-27 06:35:50  
End at: 2019-03-27 06:36:20  
Local clock offset: -1.325 ms  
Remote clock offset: -0.364 ms

# Below is generated by plot.py at 2019-03-27 08:43:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.52 Mbit/s  
95th percentile per-packet one-way delay: 24.121 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 94.52 Mbit/s  
95th percentile per-packet one-way delay: 24.121 ms  
Loss rate: 0.09%

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



Run 2: Statistics of FillP-Sheep

Start at: 2019-03-27 07:02:02

End at: 2019-03-27 07:02:32

Local clock offset: -0.694 ms

Remote clock offset: 0.768 ms

# Below is generated by plot.py at 2019-03-27 08:43:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.63 Mbit/s

95th percentile per-packet one-way delay: 31.208 ms

Loss rate: 0.13%

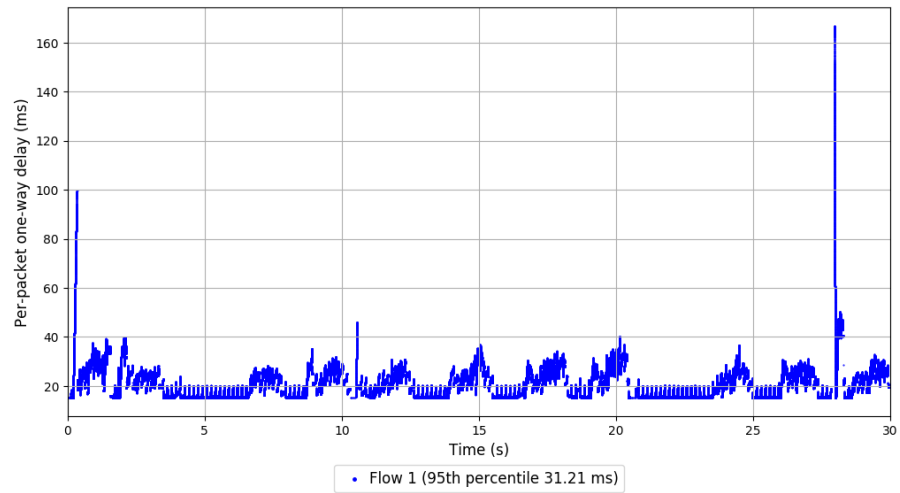
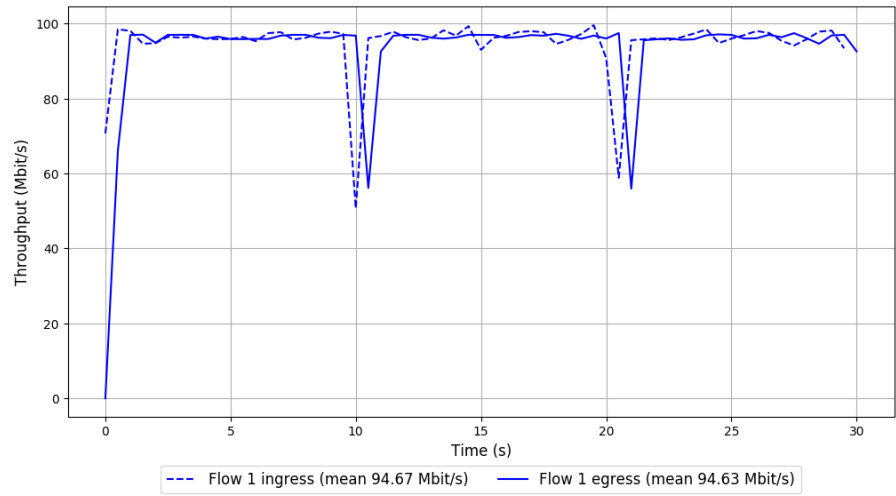
-- Flow 1:

Average throughput: 94.63 Mbit/s

95th percentile per-packet one-way delay: 31.208 ms

Loss rate: 0.13%

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



Run 3: Statistics of FillP-Sheep

Start at: 2019-03-27 07:28:22

End at: 2019-03-27 07:28:52

Local clock offset: 0.025 ms

Remote clock offset: 0.265 ms

# Below is generated by plot.py at 2019-03-27 08:43:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.14 Mbit/s

95th percentile per-packet one-way delay: 21.363 ms

Loss rate: 0.09%

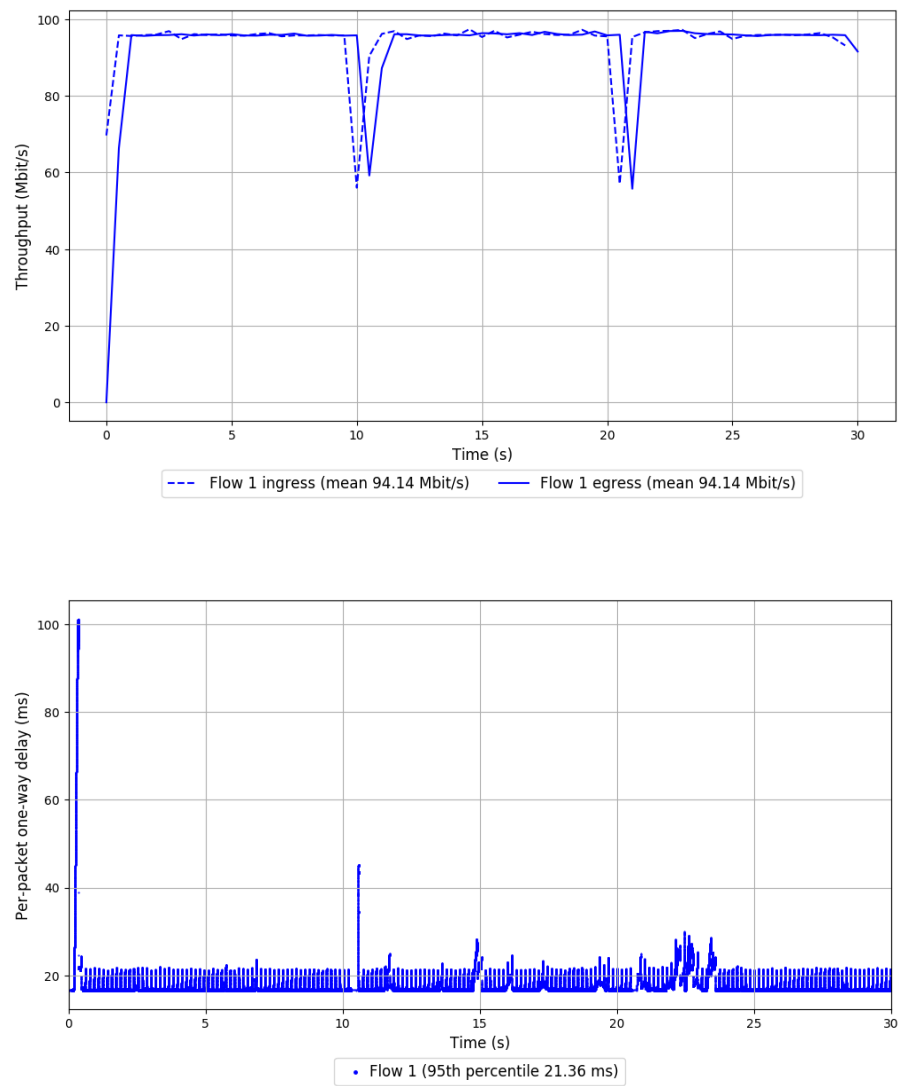
-- Flow 1:

Average throughput: 94.14 Mbit/s

95th percentile per-packet one-way delay: 21.363 ms

Loss rate: 0.09%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-03-27 07:52:57

End at: 2019-03-27 07:53:27

Local clock offset: 0.141 ms

Remote clock offset: 2.141 ms

# Below is generated by plot.py at 2019-03-27 08:43:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.14 Mbit/s

95th percentile per-packet one-way delay: 22.077 ms

Loss rate: 0.09%

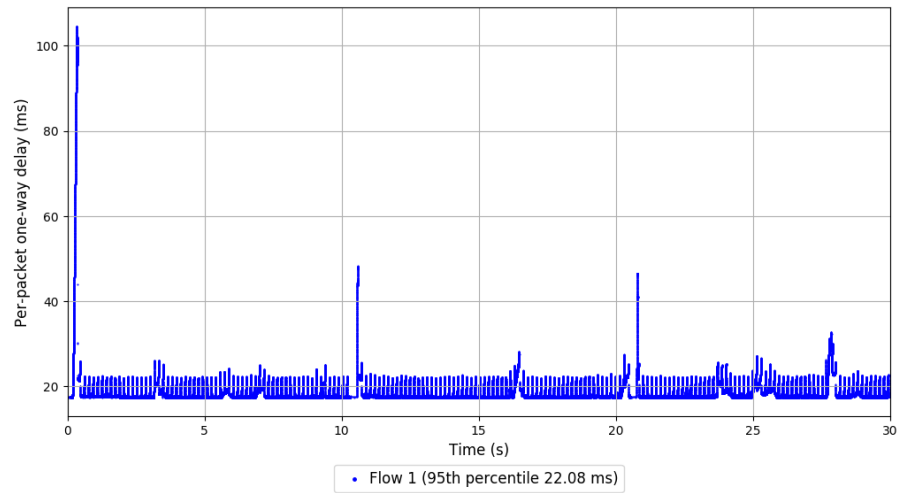
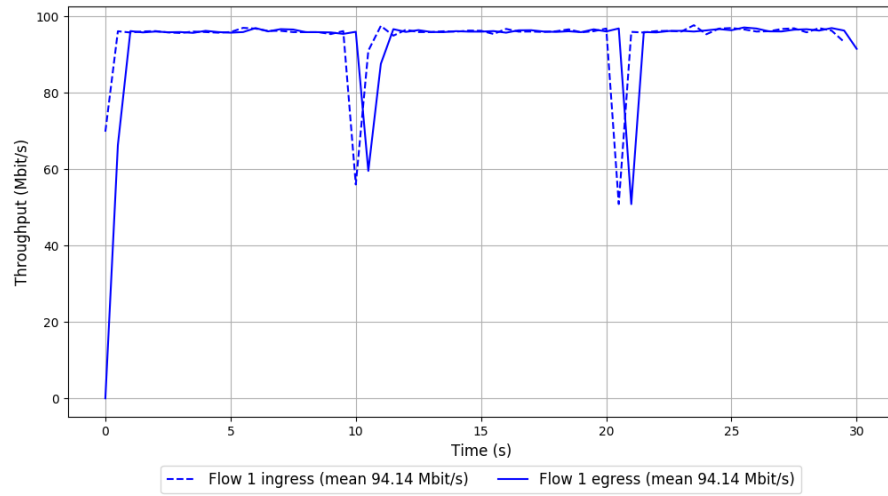
-- Flow 1:

Average throughput: 94.14 Mbit/s

95th percentile per-packet one-way delay: 22.077 ms

Loss rate: 0.09%

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





Run 5: Statistics of FillP-Sheep

Start at: 2019-03-27 08:17:32

End at: 2019-03-27 08:18:02

Local clock offset: -1.401 ms

Remote clock offset: 0.629 ms

# Below is generated by plot.py at 2019-03-27 08:43:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.13 Mbit/s

95th percentile per-packet one-way delay: 27.293 ms

Loss rate: 0.10%

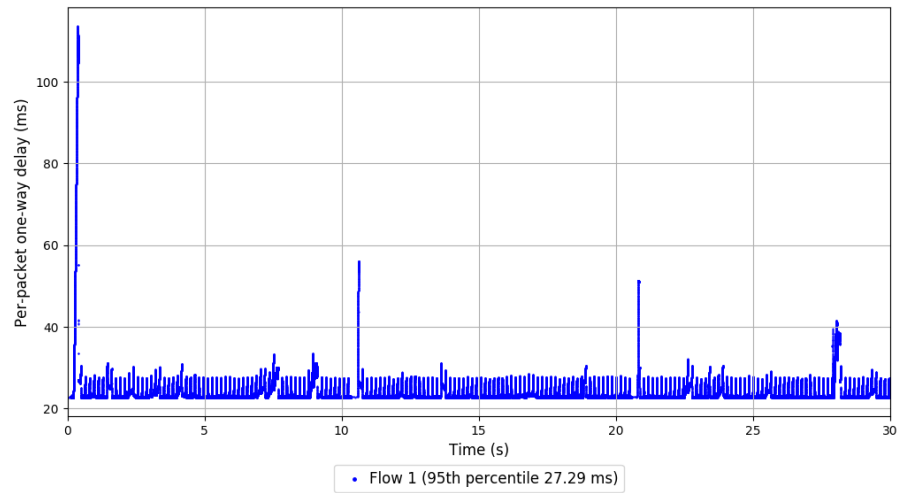
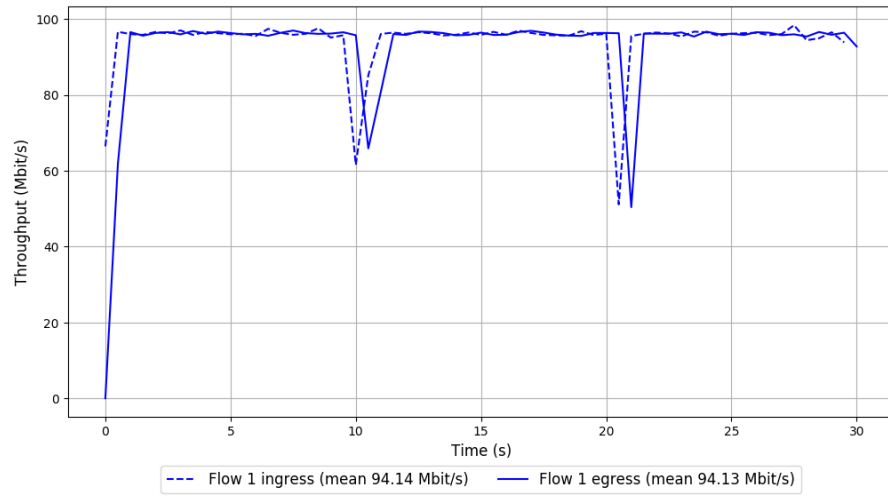
-- Flow 1:

Average throughput: 94.13 Mbit/s

95th percentile per-packet one-way delay: 27.293 ms

Loss rate: 0.10%

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



Run 1: Statistics of Indigo

Start at: 2019-03-27 06:33:21

End at: 2019-03-27 06:33:51

Local clock offset: -0.784 ms

Remote clock offset: 1.456 ms

# Below is generated by plot.py at 2019-03-27 08:43:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.67 Mbit/s

95th percentile per-packet one-way delay: 19.281 ms

Loss rate: 0.09%

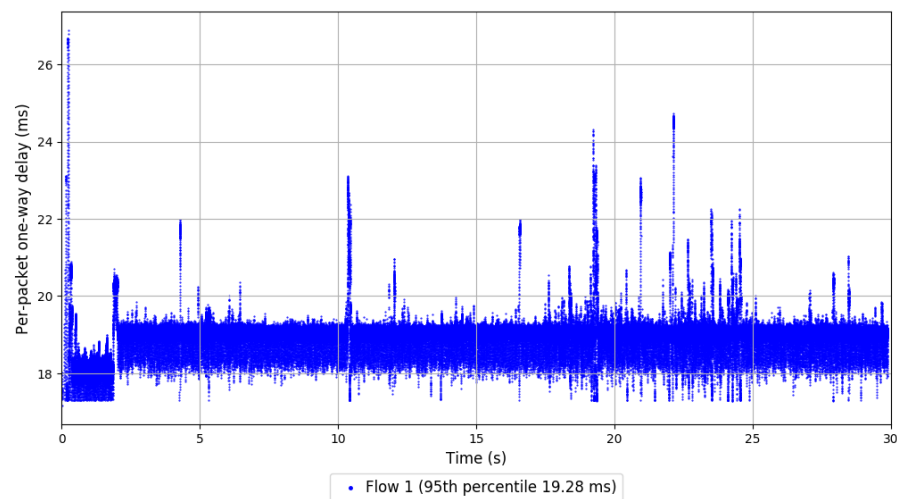
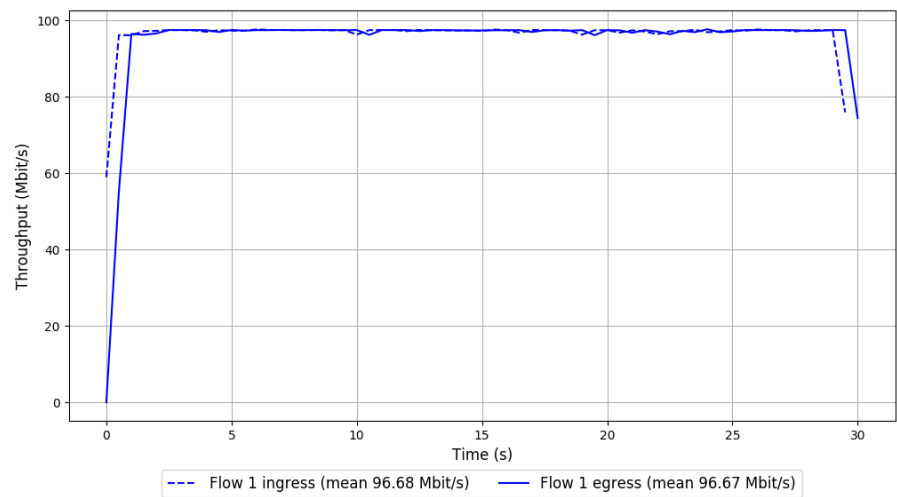
-- Flow 1:

Average throughput: 96.67 Mbit/s

95th percentile per-packet one-way delay: 19.281 ms

Loss rate: 0.09%

Run 1: Report of Indigo — Data Link

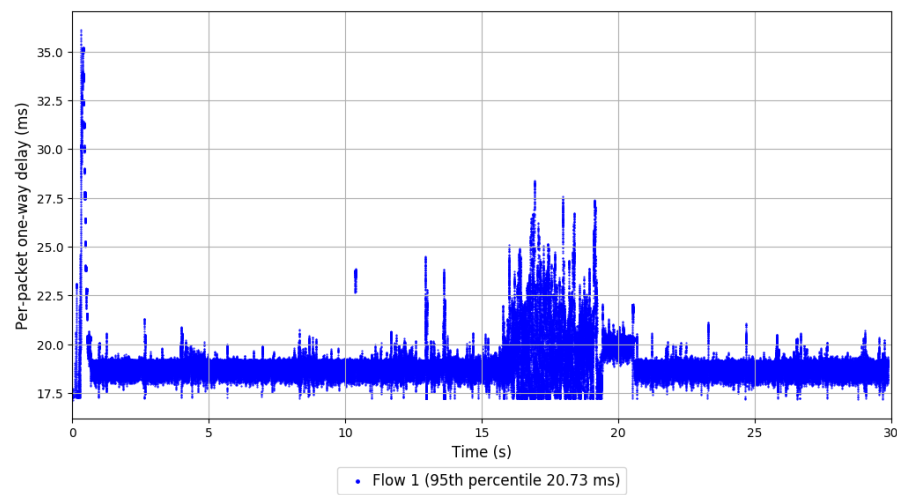
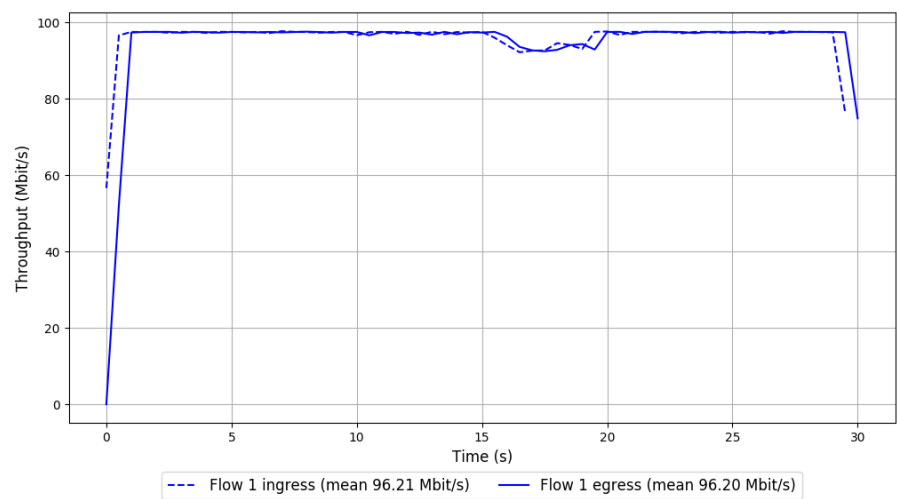


Run 2: Statistics of Indigo

Start at: 2019-03-27 06:59:36  
End at: 2019-03-27 07:00:06  
Local clock offset: -0.354 ms  
Remote clock offset: -0.459 ms

# Below is generated by plot.py at 2019-03-27 08:43:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.20 Mbit/s  
95th percentile per-packet one-way delay: 20.730 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 96.20 Mbit/s  
95th percentile per-packet one-way delay: 20.730 ms  
Loss rate: 0.09%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-03-27 07:26:01

End at: 2019-03-27 07:26:31

Local clock offset: -0.048 ms

Remote clock offset: 0.722 ms

# Below is generated by plot.py at 2019-03-27 08:44:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.88 Mbit/s

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

Loss rate: 0.15%

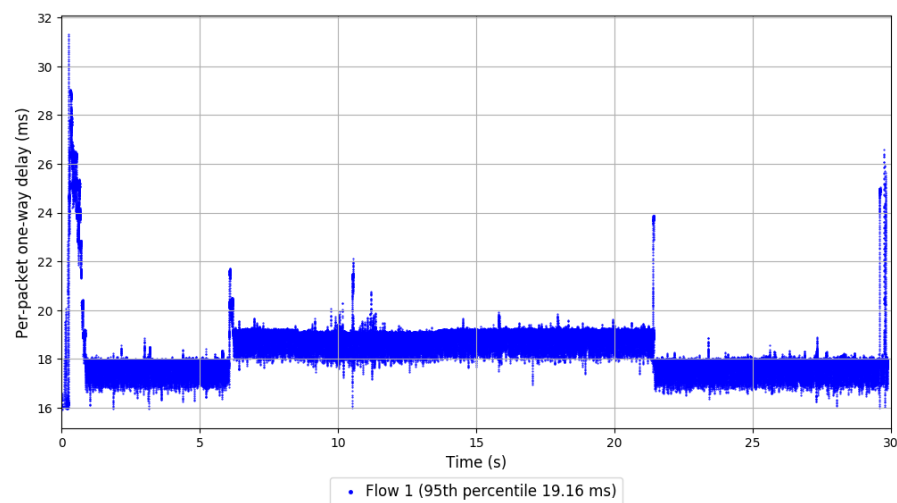
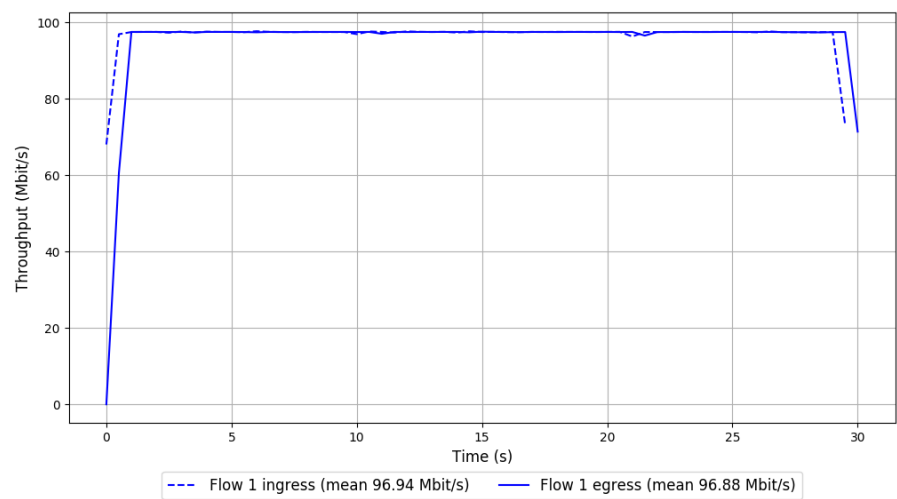
-- Flow 1:

Average throughput: 96.88 Mbit/s

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

Loss rate: 0.15%

Run 3: Report of Indigo — Data Link





Run 4: Statistics of Indigo

Start at: 2019-03-27 07:50:36

End at: 2019-03-27 07:51:06

Local clock offset: 0.36 ms

Remote clock offset: 1.086 ms

# Below is generated by plot.py at 2019-03-27 08:44:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.71 Mbit/s

95th percentile per-packet one-way delay: 20.214 ms

Loss rate: 0.09%

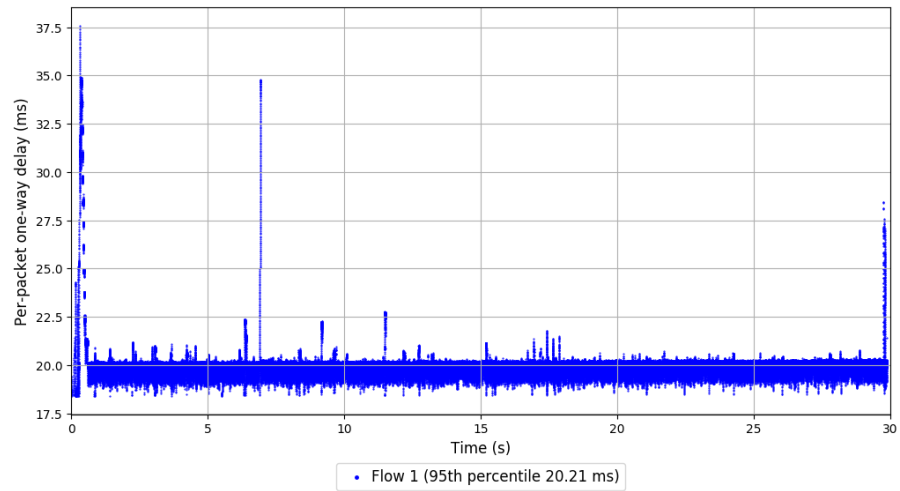
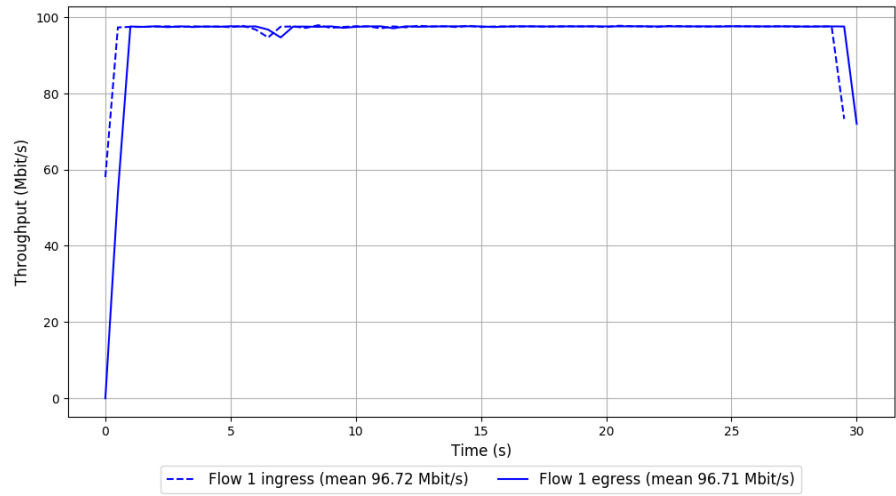
-- Flow 1:

Average throughput: 96.71 Mbit/s

95th percentile per-packet one-way delay: 20.214 ms

Loss rate: 0.09%

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



Run 5: Statistics of Indigo

Start at: 2019-03-27 08:15:07

End at: 2019-03-27 08:15:37

Local clock offset: -1.466 ms

Remote clock offset: 0.804 ms

# Below is generated by plot.py at 2019-03-27 08:44:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.78 Mbit/s

95th percentile per-packet one-way delay: 21.445 ms

Loss rate: 0.09%

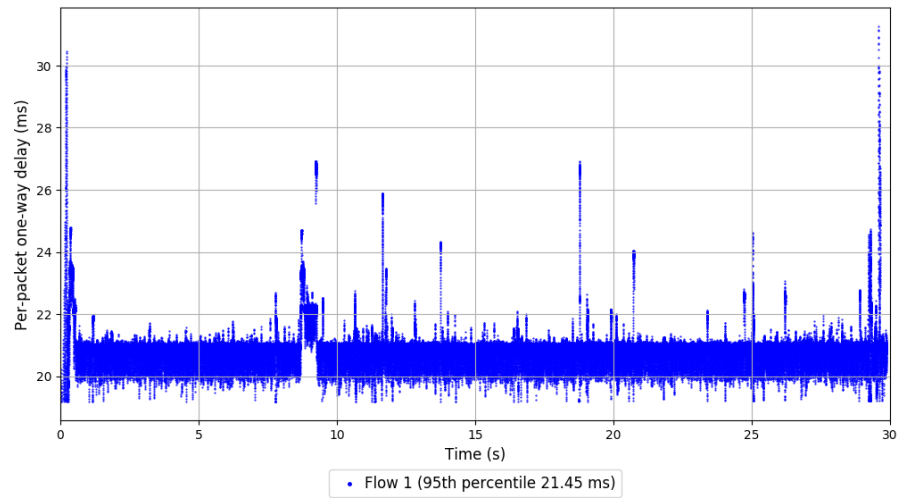
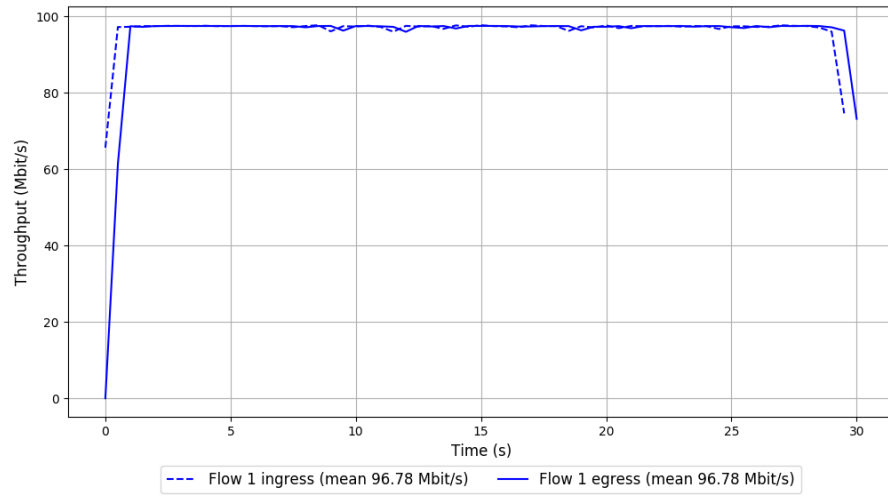
-- Flow 1:

Average throughput: 96.78 Mbit/s

95th percentile per-packet one-way delay: 21.445 ms

Loss rate: 0.09%

## Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-03-27 06:40:56

End at: 2019-03-27 06:41:26

Local clock offset: 0.289 ms

Remote clock offset: 0.822 ms

# Below is generated by plot.py at 2019-03-27 08:44:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.58 Mbit/s

95th percentile per-packet one-way delay: 22.905 ms

Loss rate: 0.09%

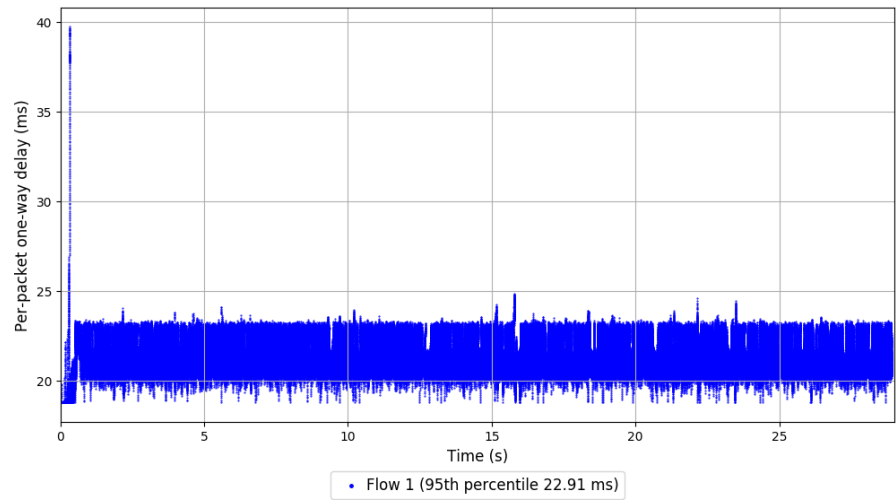
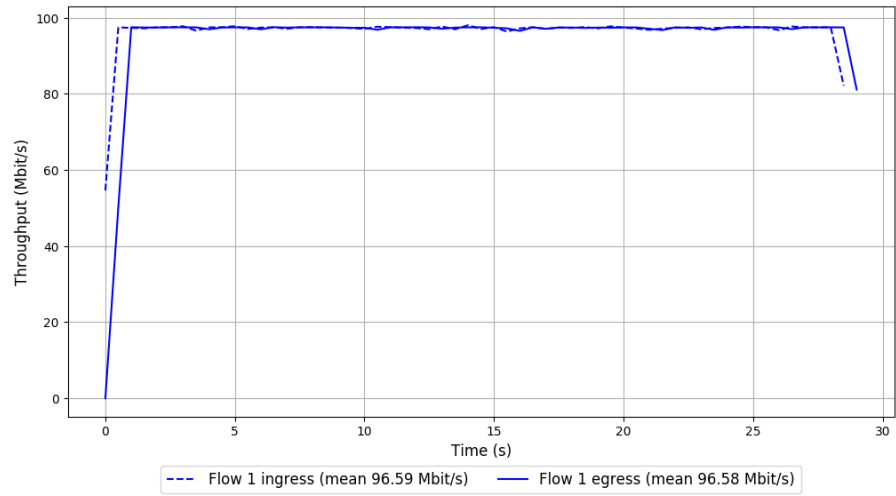
-- Flow 1:

Average throughput: 96.58 Mbit/s

95th percentile per-packet one-way delay: 22.905 ms

Loss rate: 0.09%

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

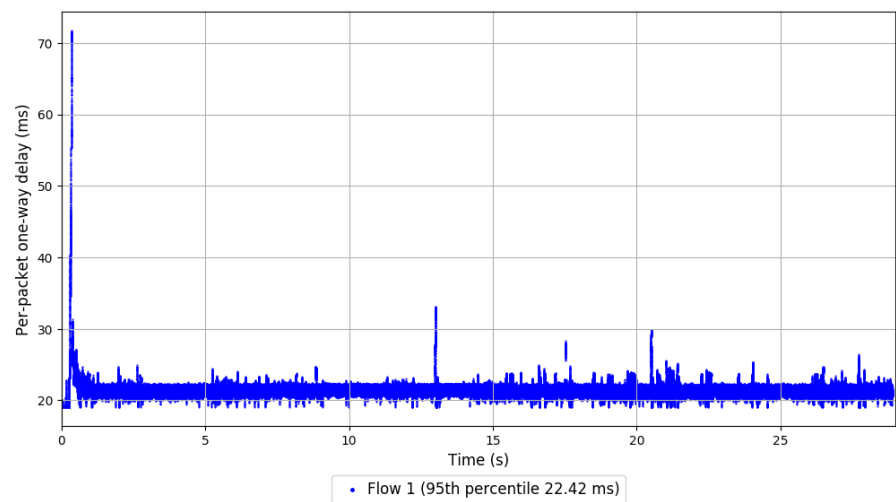
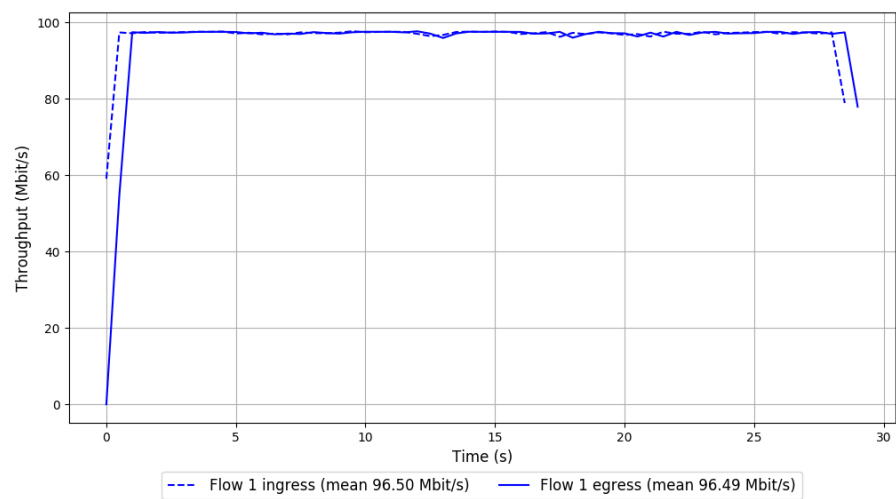


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-03-27 07:06:59  
End at: 2019-03-27 07:07:29  
Local clock offset: 1.901 ms  
Remote clock offset: -0.761 ms

# Below is generated by plot.py at 2019-03-27 08:44:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.49 Mbit/s  
95th percentile per-packet one-way delay: 22.419 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 96.49 Mbit/s  
95th percentile per-packet one-way delay: 22.419 ms  
Loss rate: 0.09%

Run 2: Report of Indigo-MusesC3 — Data Link





Run 3: Statistics of Indigo-MusesC3

Start at: 2019-03-27 07:33:07

End at: 2019-03-27 07:33:37

Local clock offset: 2.147 ms

Remote clock offset: -1.436 ms

# Below is generated by plot.py at 2019-03-27 08:44:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.79 Mbit/s

95th percentile per-packet one-way delay: 23.521 ms

Loss rate: 0.09%

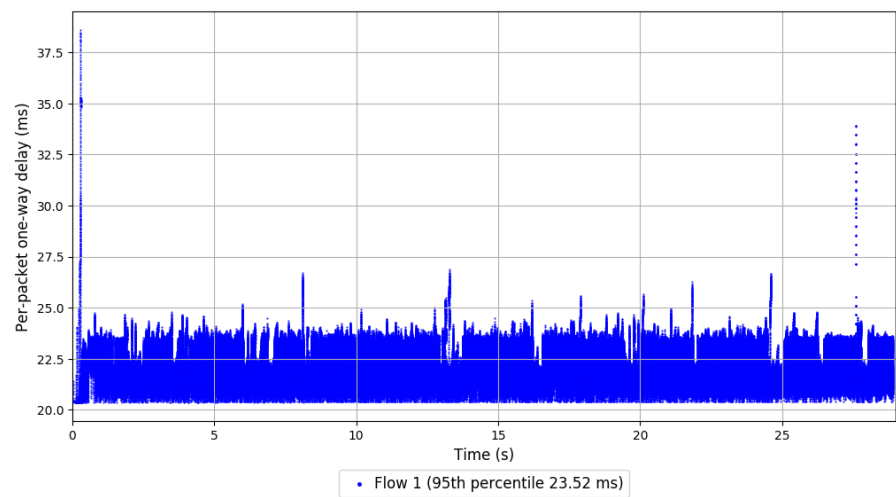
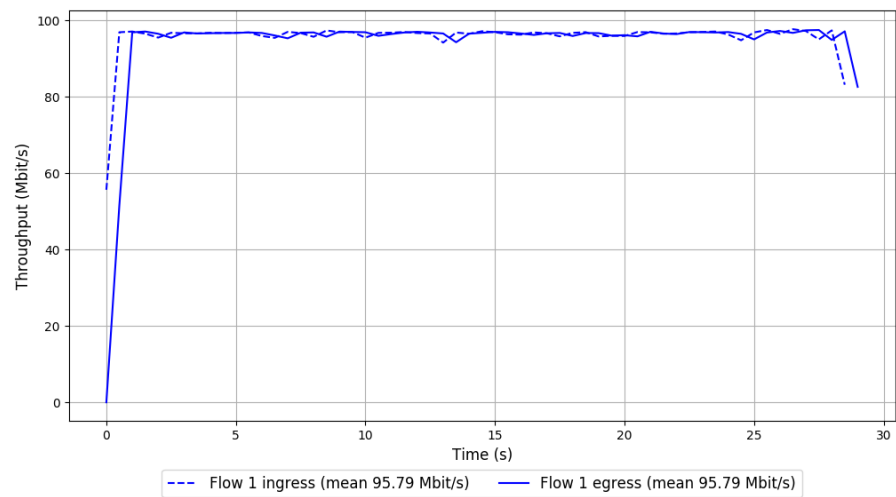
-- Flow 1:

Average throughput: 95.79 Mbit/s

95th percentile per-packet one-way delay: 23.521 ms

Loss rate: 0.09%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-03-27 07:57:42

End at: 2019-03-27 07:58:12

Local clock offset: -1.489 ms

Remote clock offset: 0.316 ms

# Below is generated by plot.py at 2019-03-27 08:44:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.57 Mbit/s

95th percentile per-packet one-way delay: 21.658 ms

Loss rate: 0.09%

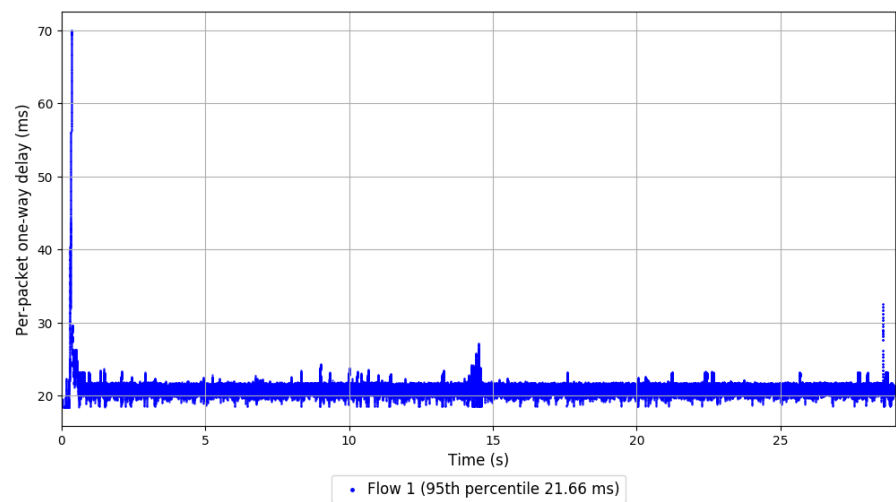
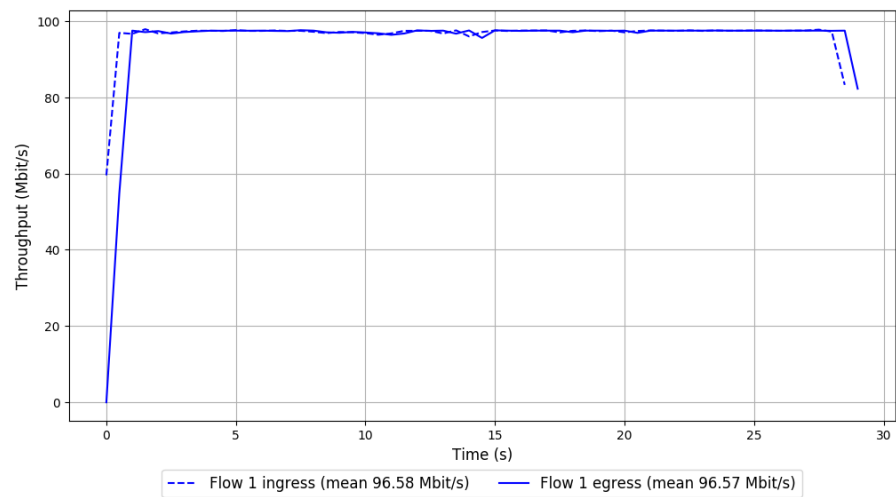
-- Flow 1:

Average throughput: 96.57 Mbit/s

95th percentile per-packet one-way delay: 21.658 ms

Loss rate: 0.09%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-03-27 08:22:24

End at: 2019-03-27 08:22:54

Local clock offset: -0.4 ms

Remote clock offset: 1.794 ms

# Below is generated by plot.py at 2019-03-27 08:44:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.53 Mbit/s

95th percentile per-packet one-way delay: 23.517 ms

Loss rate: 0.09%

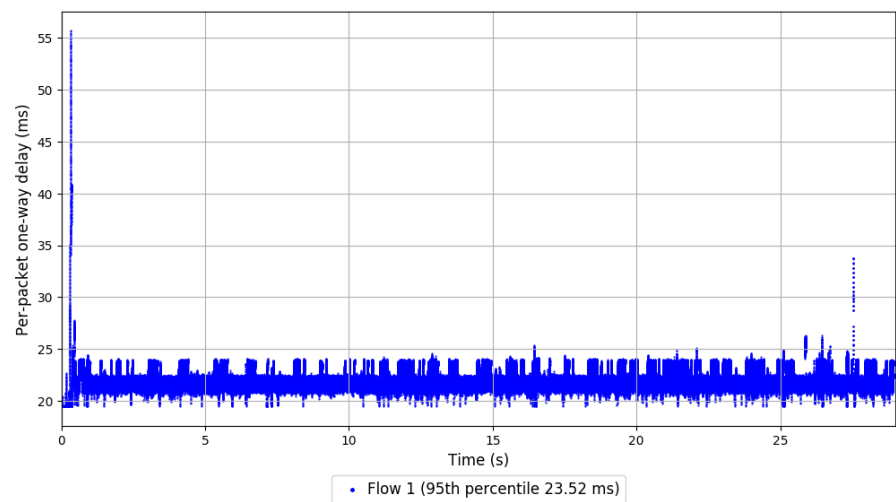
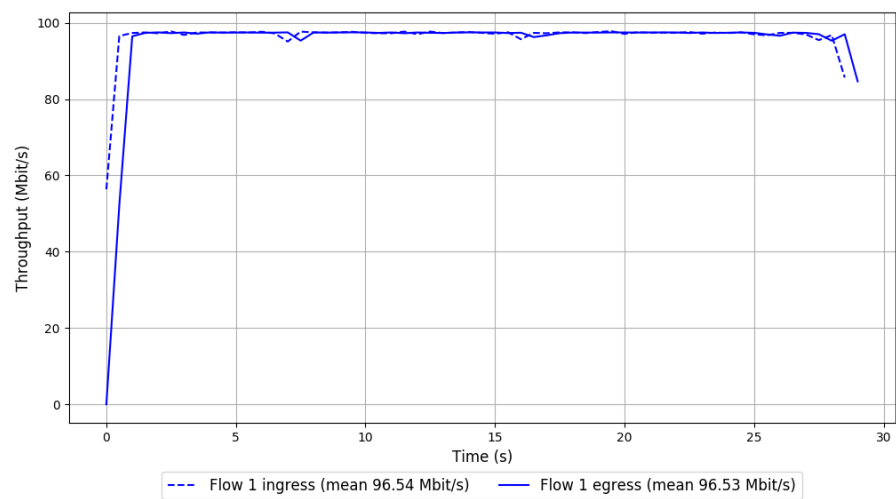
-- Flow 1:

Average throughput: 96.53 Mbit/s

95th percentile per-packet one-way delay: 23.517 ms

Loss rate: 0.09%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-03-27 06:34:36

End at: 2019-03-27 06:35:06

Local clock offset: 1.563 ms

Remote clock offset: 0.289 ms

# Below is generated by plot.py at 2019-03-27 08:45:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.49 Mbit/s

95th percentile per-packet one-way delay: 23.492 ms

Loss rate: 0.09%

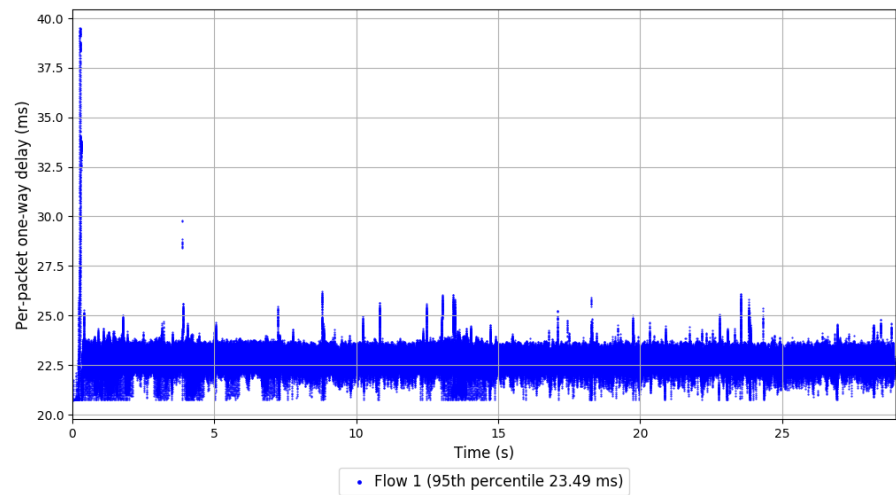
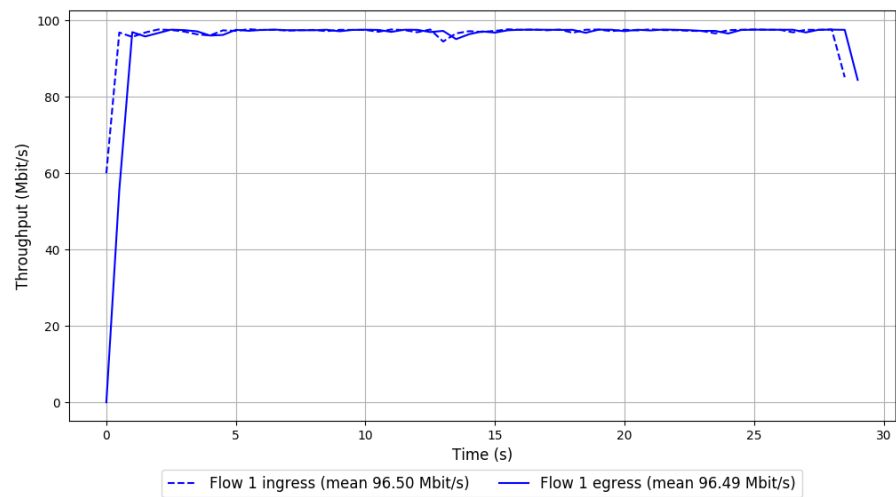
-- Flow 1:

Average throughput: 96.49 Mbit/s

95th percentile per-packet one-way delay: 23.492 ms

Loss rate: 0.09%

Run 1: Report of Indigo-MusesC5 — Data Link





Run 2: Statistics of Indigo-MusesC5

Start at: 2019-03-27 07:00:50

End at: 2019-03-27 07:01:20

Local clock offset: -0.226 ms

Remote clock offset: 0.54 ms

# Below is generated by plot.py at 2019-03-27 08:45:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.72 Mbit/s

95th percentile per-packet one-way delay: 19.090 ms

Loss rate: 0.09%

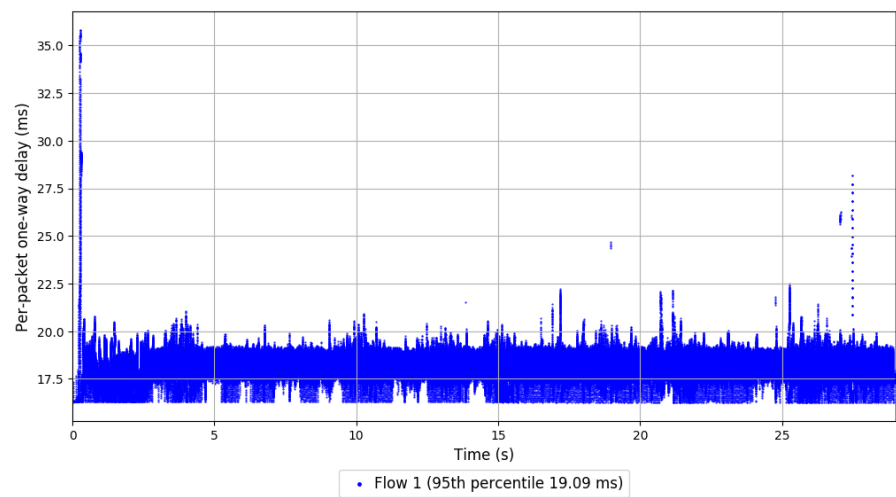
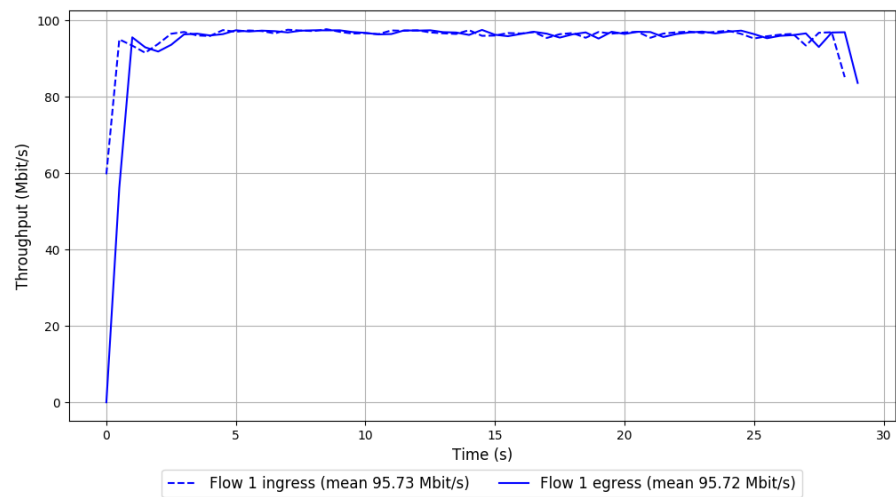
-- Flow 1:

Average throughput: 95.72 Mbit/s

95th percentile per-packet one-way delay: 19.090 ms

Loss rate: 0.09%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-03-27 07:27:13

End at: 2019-03-27 07:27:43

Local clock offset: 0.543 ms

Remote clock offset: -0.688 ms

# Below is generated by plot.py at 2019-03-27 08:45:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 20.787 ms

Loss rate: 0.09%

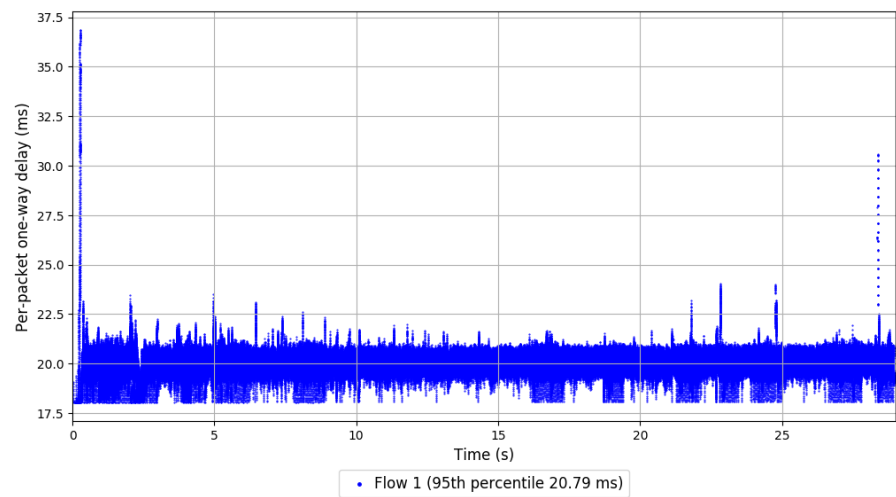
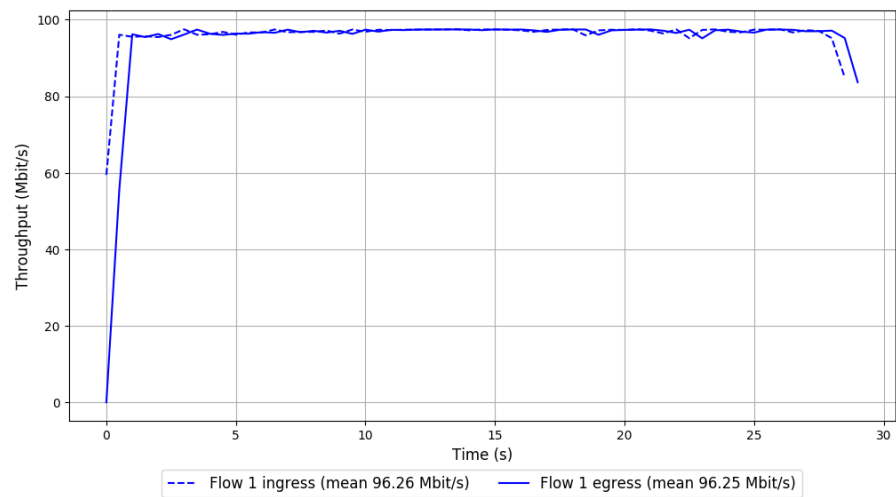
-- Flow 1:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 20.787 ms

Loss rate: 0.09%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-03-27 07:51:47

End at: 2019-03-27 07:52:17

Local clock offset: 0.456 ms

Remote clock offset: 1.459 ms

# Below is generated by plot.py at 2019-03-27 08:45:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.72 Mbit/s

95th percentile per-packet one-way delay: 21.282 ms

Loss rate: 0.10%

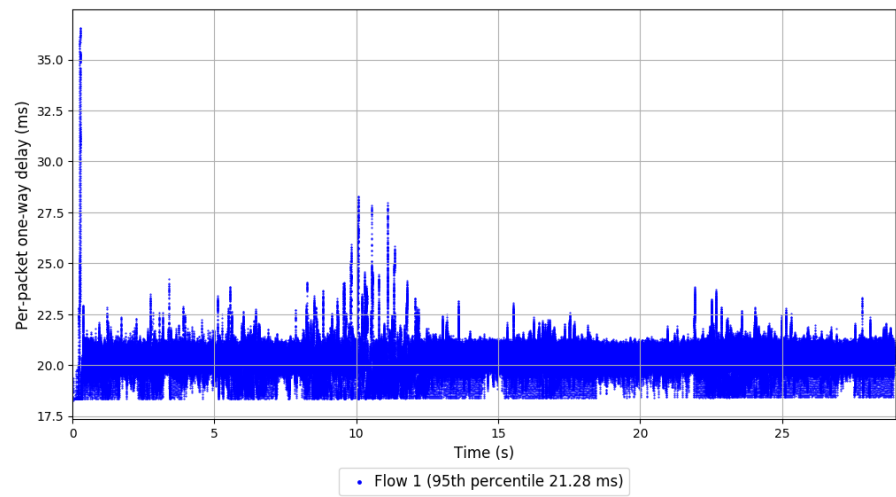
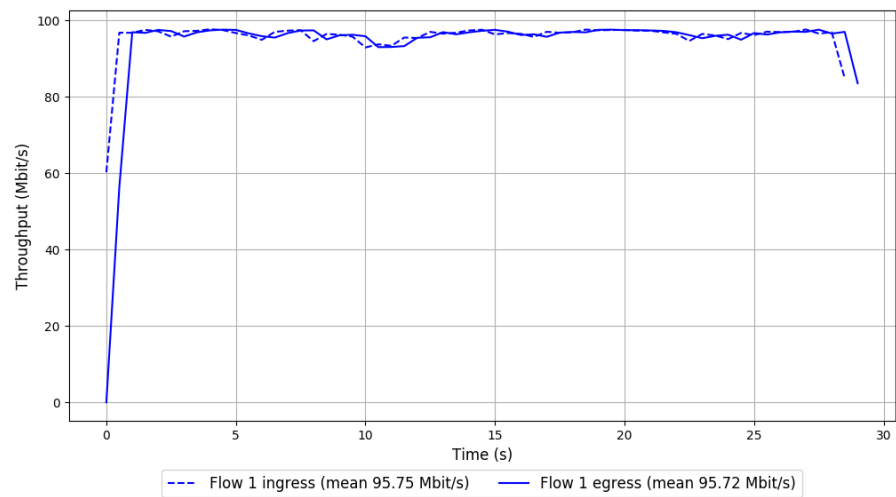
-- Flow 1:

Average throughput: 95.72 Mbit/s

95th percentile per-packet one-way delay: 21.282 ms

Loss rate: 0.10%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-03-27 08:16:22

End at: 2019-03-27 08:16:52

Local clock offset: -1.069 ms

Remote clock offset: 1.293 ms

# Below is generated by plot.py at 2019-03-27 08:45:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.85 Mbit/s

95th percentile per-packet one-way delay: 25.175 ms

Loss rate: 0.10%

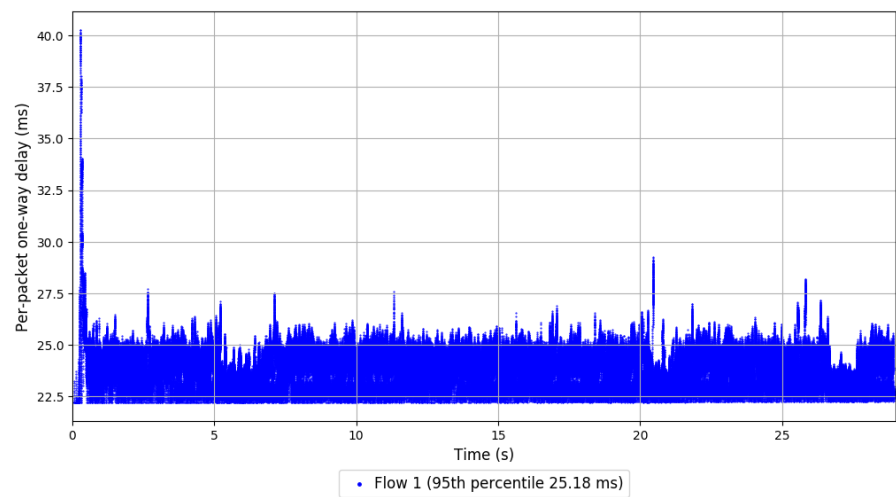
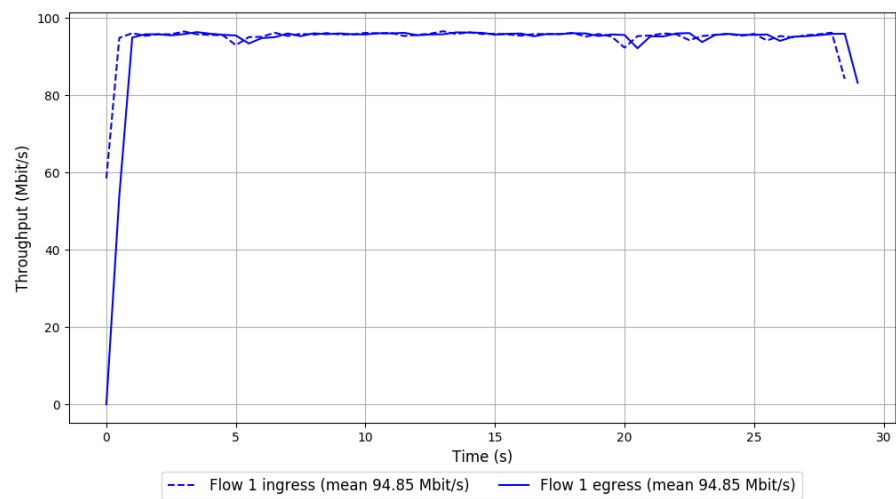
-- Flow 1:

Average throughput: 94.85 Mbit/s

95th percentile per-packet one-way delay: 25.175 ms

Loss rate: 0.10%

Run 5: Report of Indigo-MusesC5 — Data Link





Run 1: Statistics of Indigo-MusesD

Start at: 2019-03-27 06:53:36

End at: 2019-03-27 06:54:06

Local clock offset: 0.619 ms

Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2019-03-27 08:45:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 75.02 Mbit/s

95th percentile per-packet one-way delay: 20.482 ms

Loss rate: 0.11%

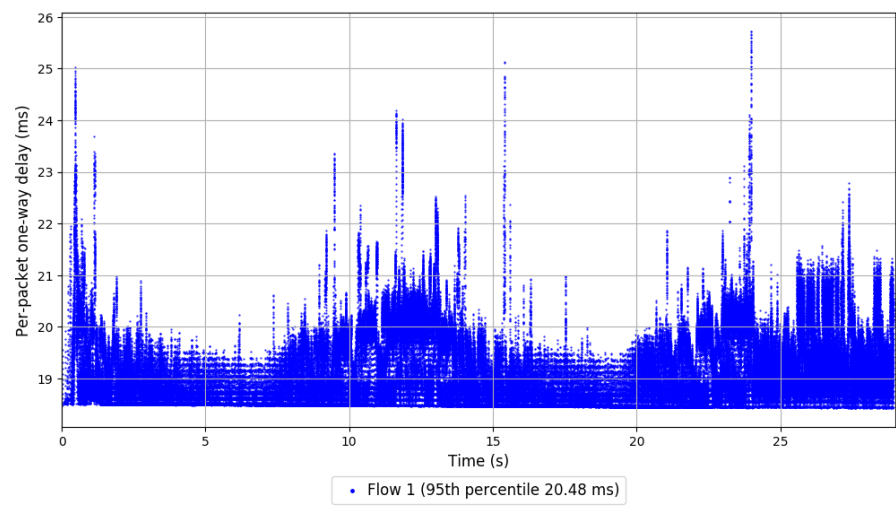
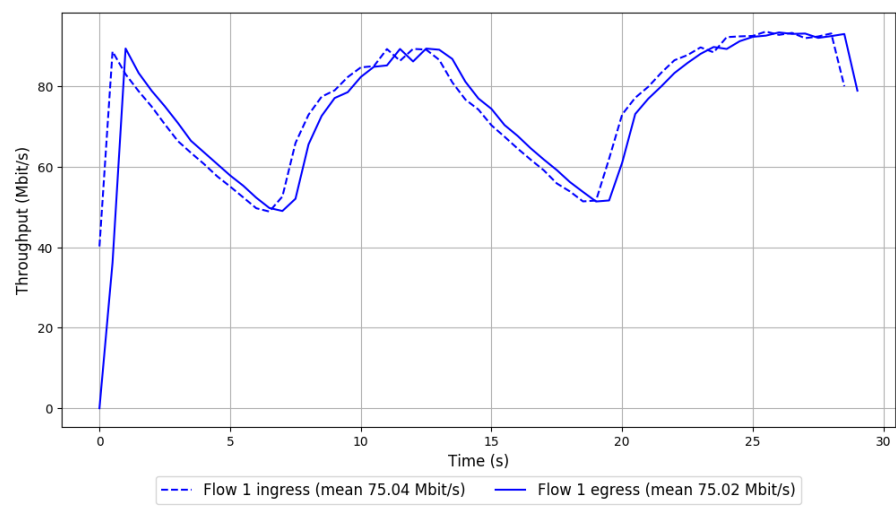
-- Flow 1:

Average throughput: 75.02 Mbit/s

95th percentile per-packet one-way delay: 20.482 ms

Loss rate: 0.11%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-03-27 07:20:14

End at: 2019-03-27 07:20:44

Local clock offset: 1.546 ms

Remote clock offset: -2.439 ms

# Below is generated by plot.py at 2019-03-27 08:45:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.20 Mbit/s

95th percentile per-packet one-way delay: 23.191 ms

Loss rate: 0.09%

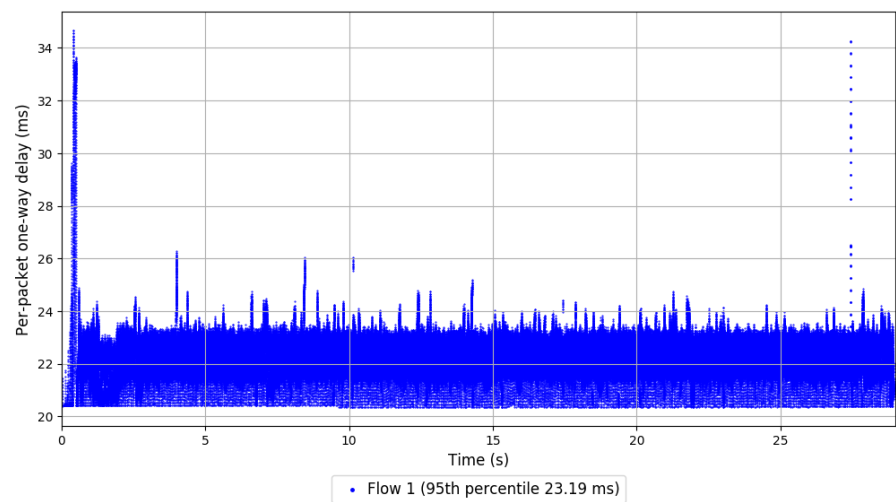
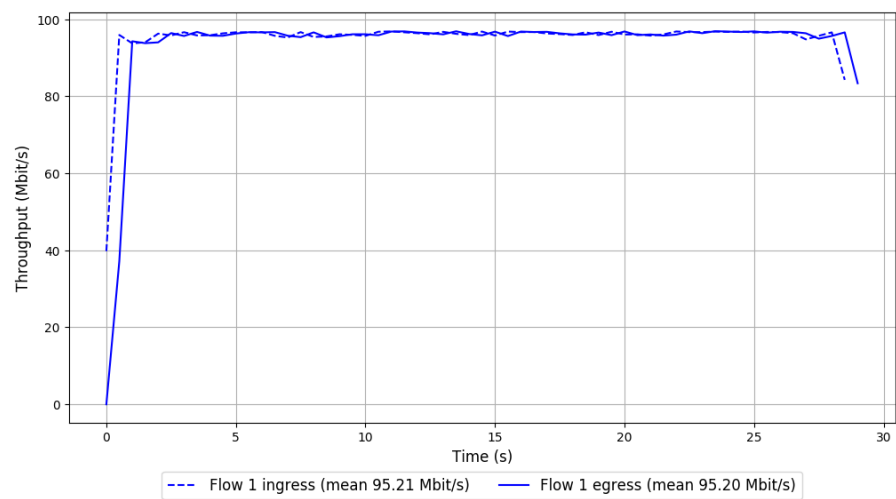
-- Flow 1:

Average throughput: 95.20 Mbit/s

95th percentile per-packet one-way delay: 23.191 ms

Loss rate: 0.09%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-03-27 07:44:52

End at: 2019-03-27 07:45:22

Local clock offset: 1.971 ms

Remote clock offset: 0.324 ms

# Below is generated by plot.py at 2019-03-27 08:45:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.47 Mbit/s

95th percentile per-packet one-way delay: 22.319 ms

Loss rate: 0.10%

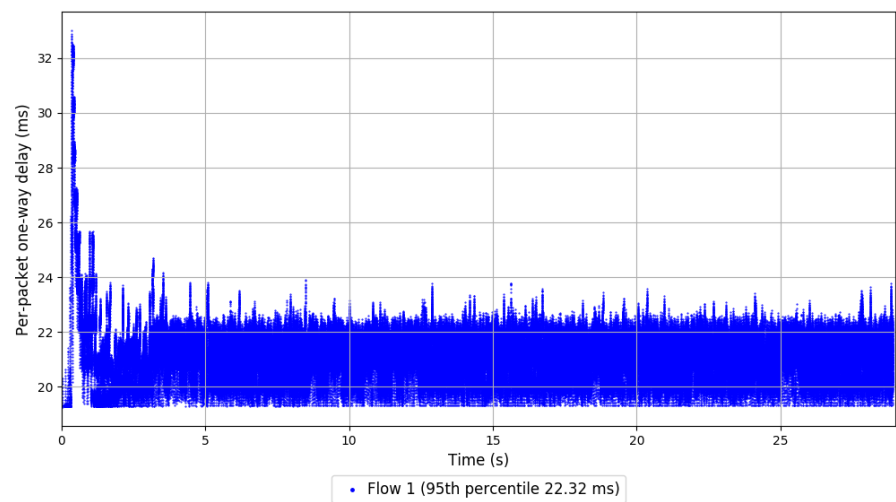
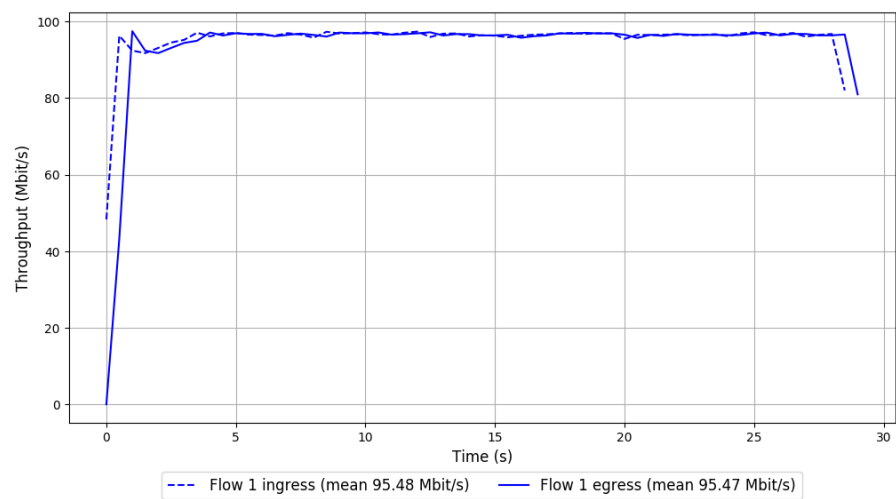
-- Flow 1:

Average throughput: 95.47 Mbit/s

95th percentile per-packet one-way delay: 22.319 ms

Loss rate: 0.10%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-03-27 08:09:21

End at: 2019-03-27 08:09:51

Local clock offset: -0.775 ms

Remote clock offset: 2.195 ms

# Below is generated by plot.py at 2019-03-27 08:46:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.73 Mbit/s

95th percentile per-packet one-way delay: 21.011 ms

Loss rate: 0.09%

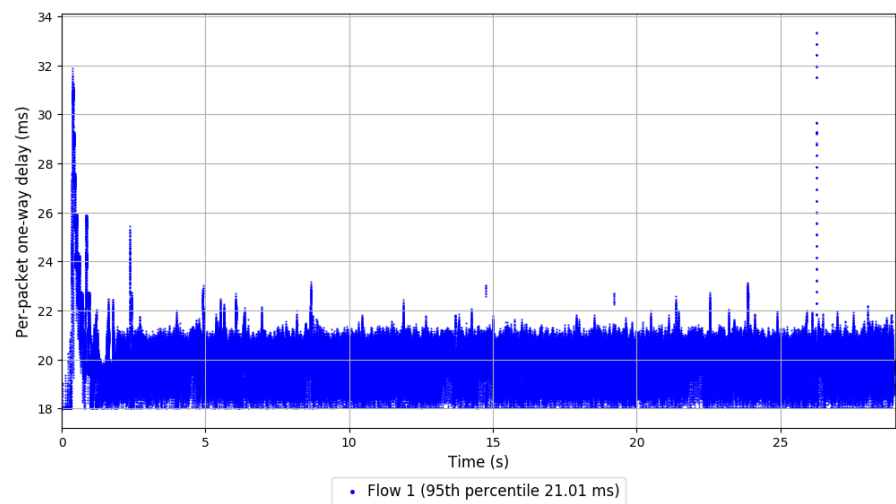
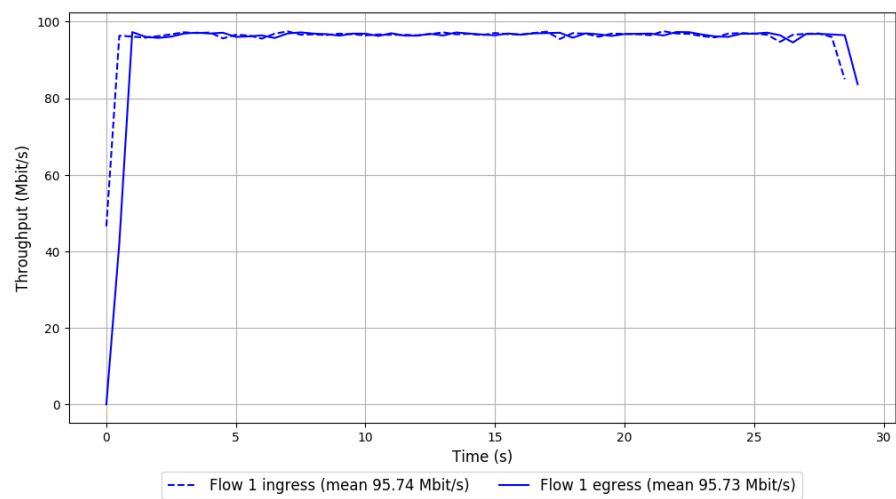
-- Flow 1:

Average throughput: 95.73 Mbit/s

95th percentile per-packet one-way delay: 21.011 ms

Loss rate: 0.09%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-03-27 08:34:17

End at: 2019-03-27 08:34:47

Local clock offset: -2.52 ms

Remote clock offset: 2.086 ms

# Below is generated by plot.py at 2019-03-27 08:46:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.47 Mbit/s

95th percentile per-packet one-way delay: 20.635 ms

Loss rate: 0.09%

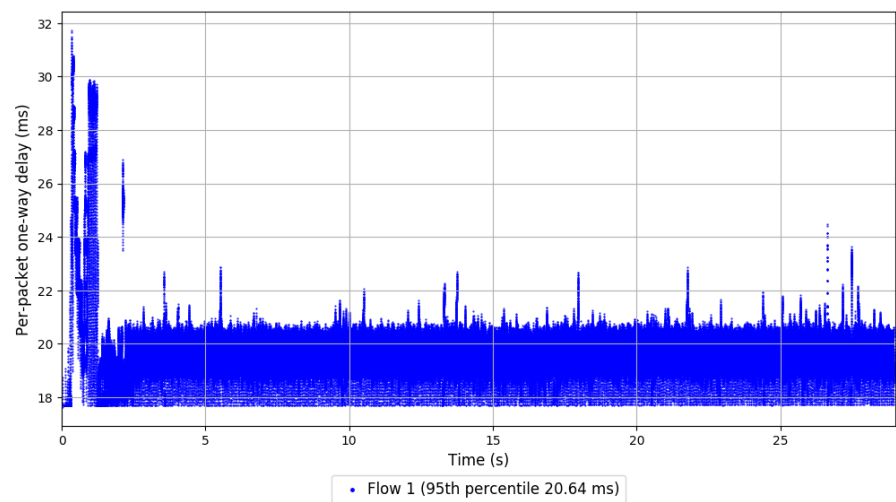
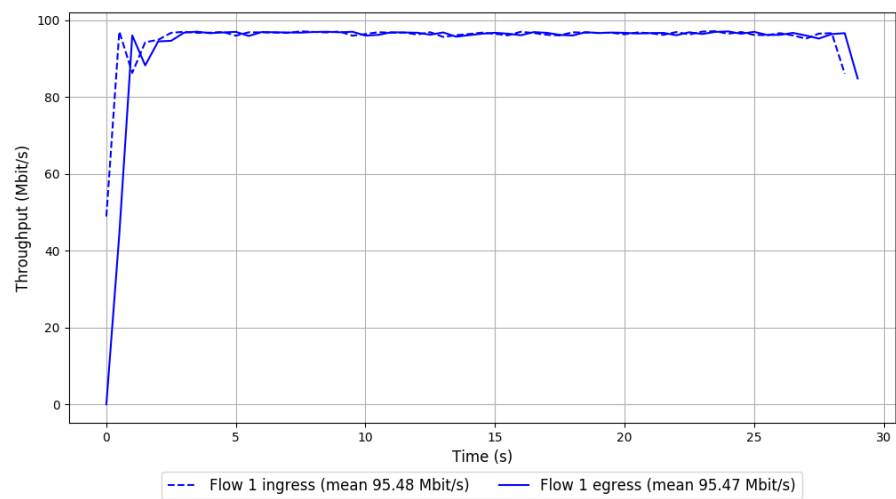
-- Flow 1:

Average throughput: 95.47 Mbit/s

95th percentile per-packet one-way delay: 20.635 ms

Loss rate: 0.09%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-03-27 06:32:12

End at: 2019-03-27 06:32:42

Local clock offset: 1.026 ms

Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2019-03-27 08:46:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.44 Mbit/s

95th percentile per-packet one-way delay: 24.647 ms

Loss rate: 0.10%

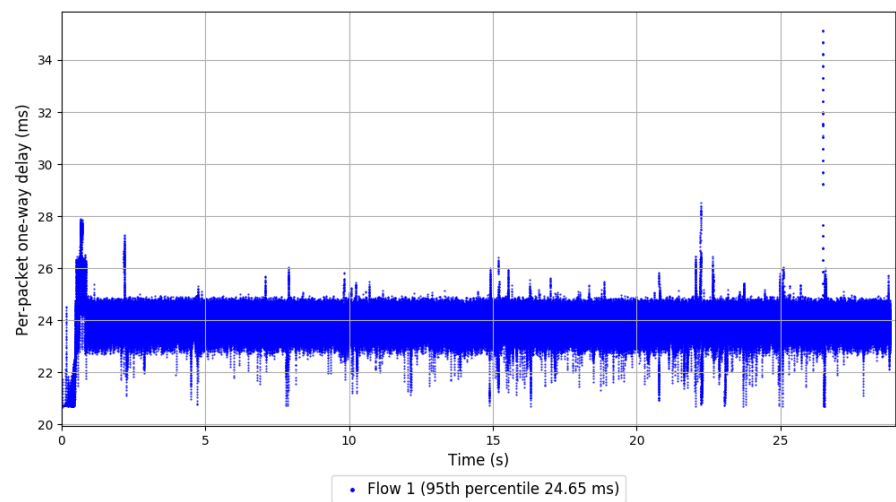
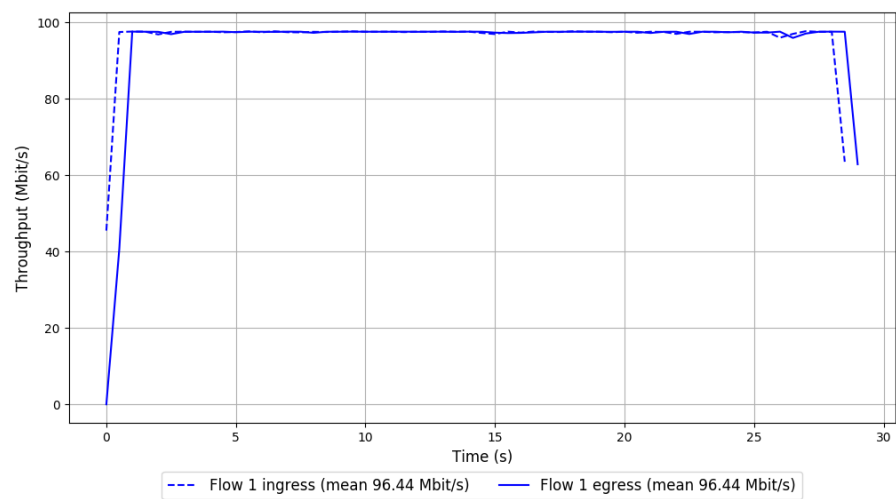
-- Flow 1:

Average throughput: 96.44 Mbit/s

95th percentile per-packet one-way delay: 24.647 ms

Loss rate: 0.10%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-03-27 06:58:24

End at: 2019-03-27 06:58:54

Local clock offset: -0.29 ms

Remote clock offset: -0.296 ms

# Below is generated by plot.py at 2019-03-27 08:46:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.38 Mbit/s

95th percentile per-packet one-way delay: 21.318 ms

Loss rate: 0.11%

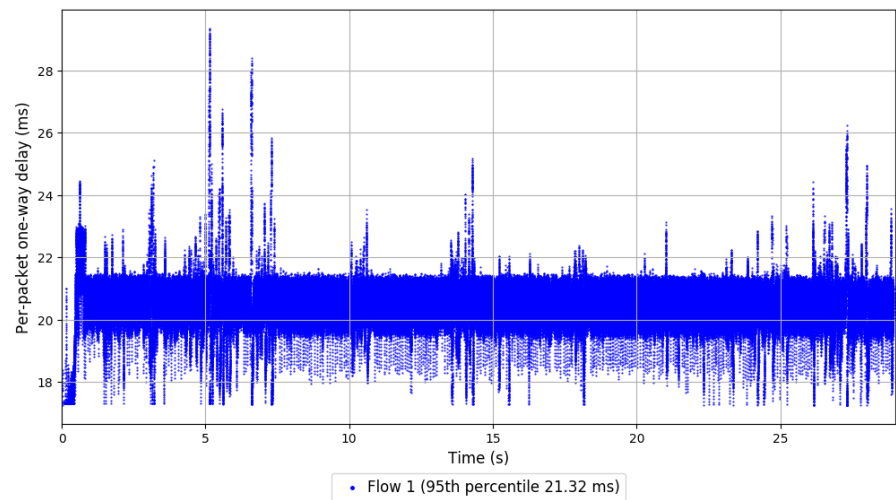
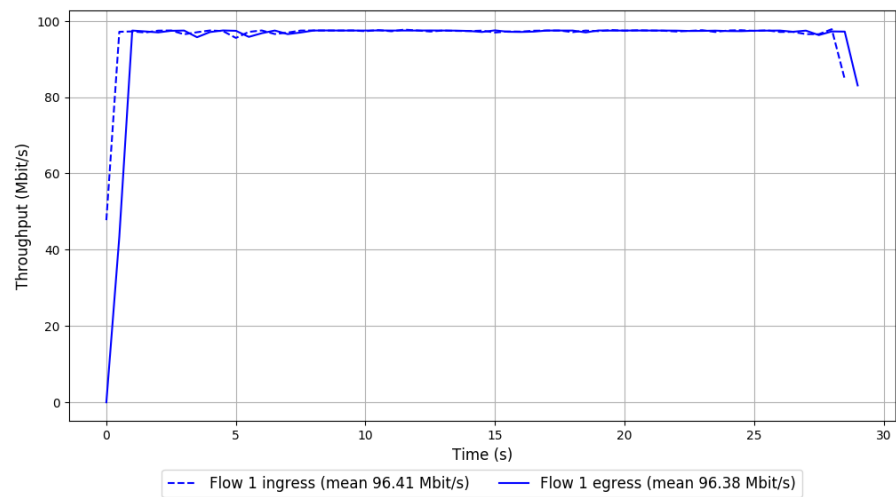
-- Flow 1:

Average throughput: 96.38 Mbit/s

95th percentile per-packet one-way delay: 21.318 ms

Loss rate: 0.11%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-03-27 07:24:51

End at: 2019-03-27 07:25:21

Local clock offset: 2.695 ms

Remote clock offset: -0.328 ms

# Below is generated by plot.py at 2019-03-27 08:46:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.32 Mbit/s

95th percentile per-packet one-way delay: 22.308 ms

Loss rate: 0.10%

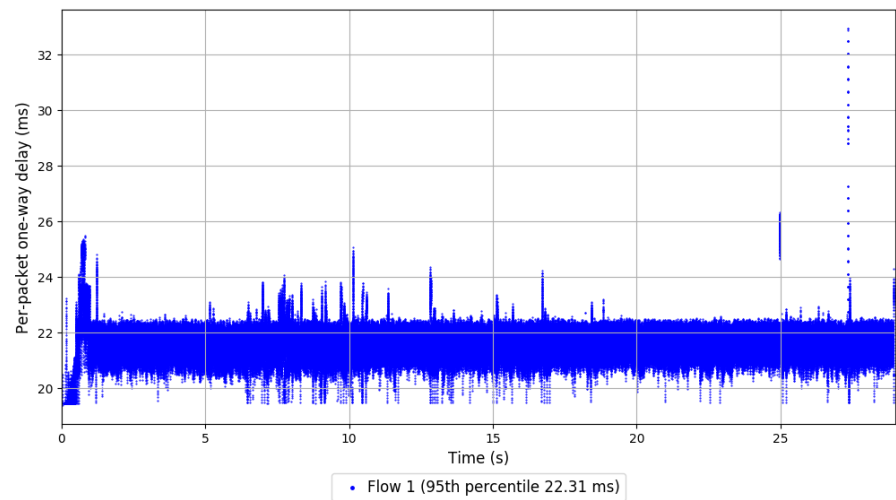
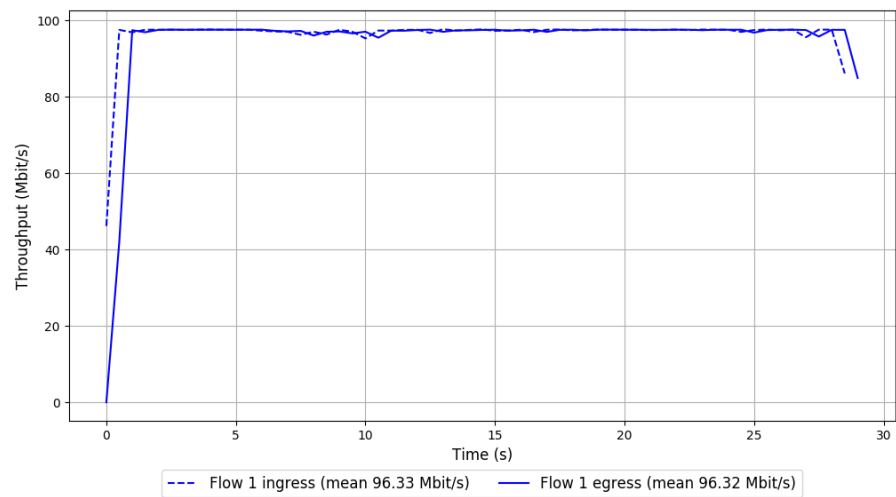
-- Flow 1:

Average throughput: 96.32 Mbit/s

95th percentile per-packet one-way delay: 22.308 ms

Loss rate: 0.10%

Run 3: Report of Indigo-MusesT — Data Link





Run 4: Statistics of Indigo-MusesT

Start at: 2019-03-27 07:49:26

End at: 2019-03-27 07:49:56

Local clock offset: 0.059 ms

Remote clock offset: 1.635 ms

# Below is generated by plot.py at 2019-03-27 08:46:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.32 Mbit/s

95th percentile per-packet one-way delay: 19.990 ms

Loss rate: 0.10%

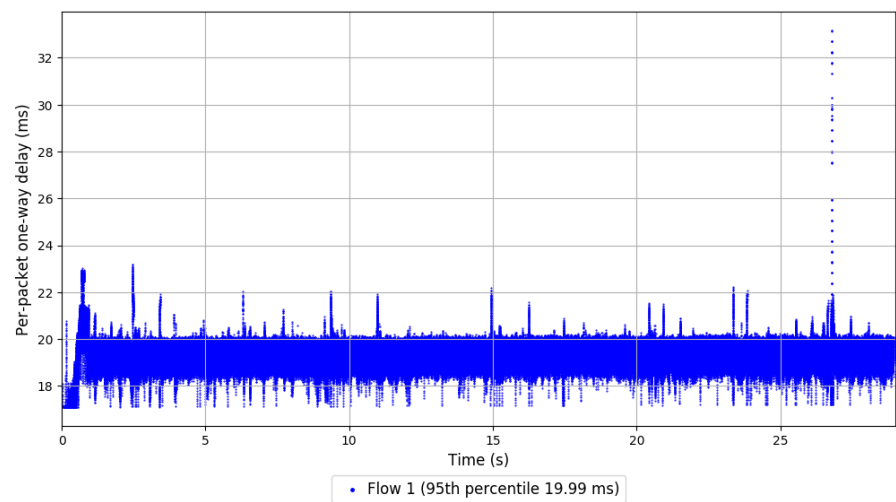
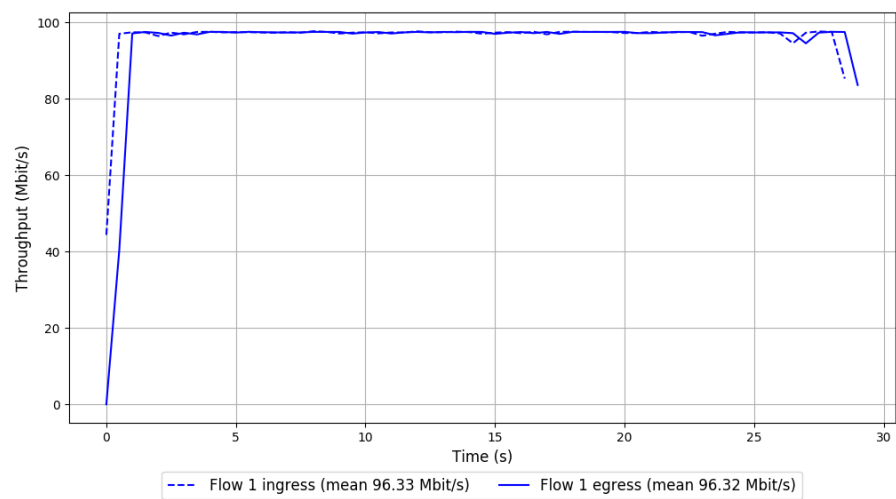
-- Flow 1:

Average throughput: 96.32 Mbit/s

95th percentile per-packet one-way delay: 19.990 ms

Loss rate: 0.10%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-03-27 08:13:56

End at: 2019-03-27 08:14:26

Local clock offset: -0.58 ms

Remote clock offset: -14.492 ms

# Below is generated by plot.py at 2019-03-27 08:46:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.29 Mbit/s

95th percentile per-packet one-way delay: 37.896 ms

Loss rate: 0.09%

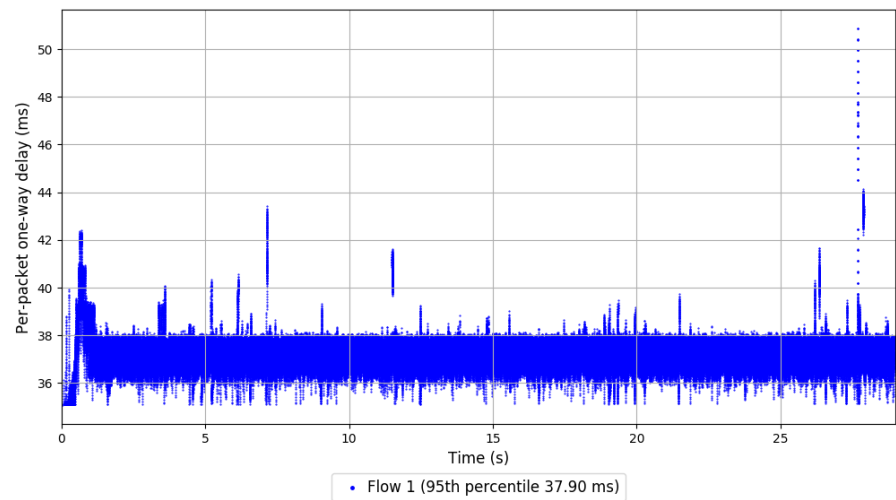
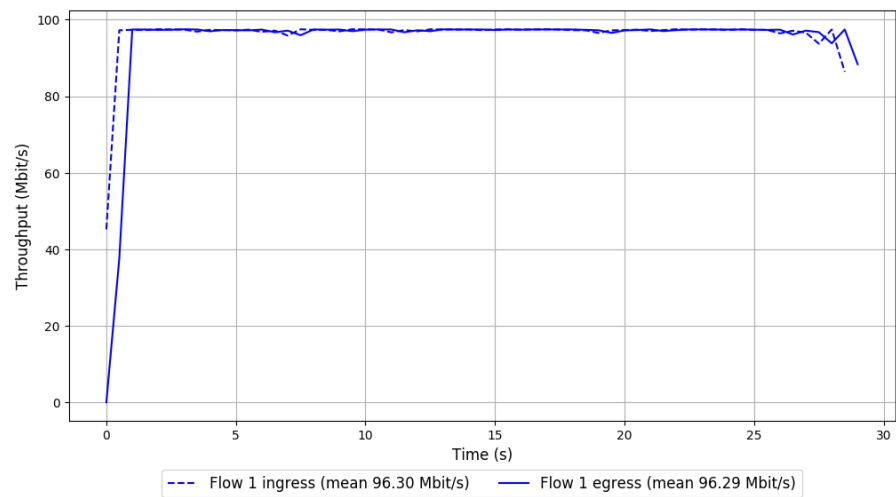
-- Flow 1:

Average throughput: 96.29 Mbit/s

95th percentile per-packet one-way delay: 37.896 ms

Loss rate: 0.09%

Run 5: Report of Indigo-MusesT — Data Link

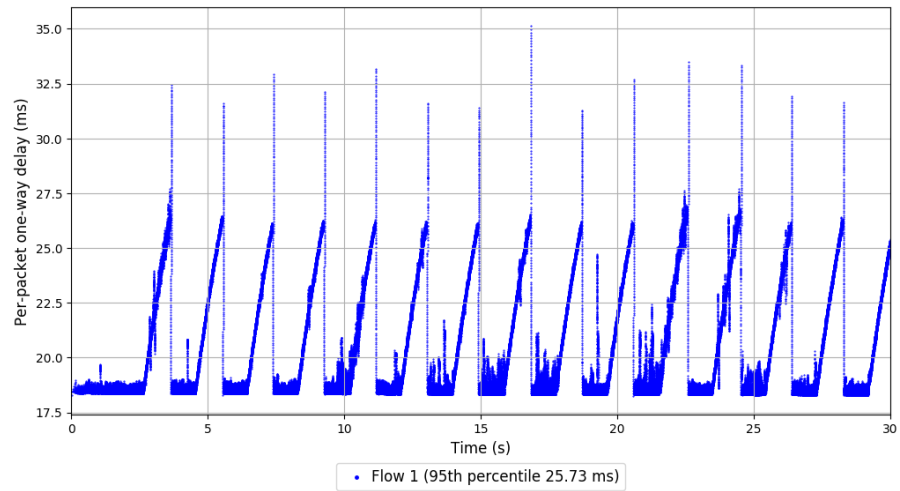
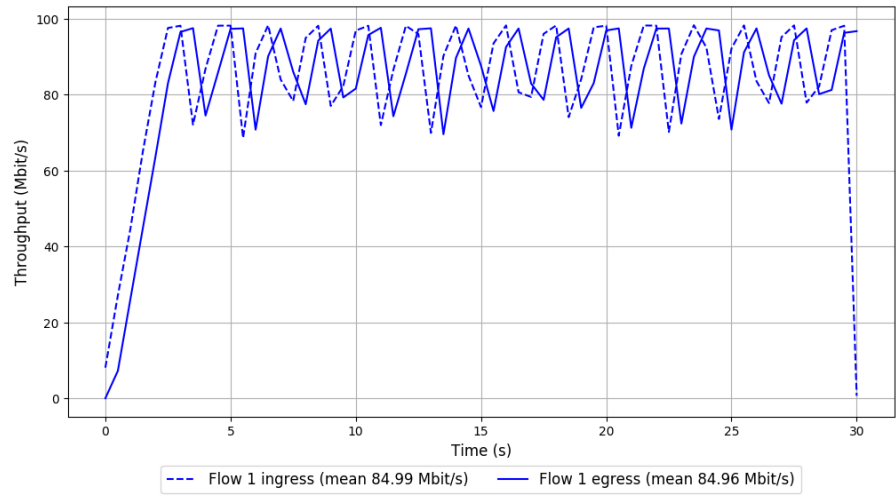


Run 1: Statistics of LEDBAT

Start at: 2019-03-27 06:54:49  
End at: 2019-03-27 06:55:19  
Local clock offset: 0.121 ms  
Remote clock offset: -0.437 ms

# Below is generated by plot.py at 2019-03-27 08:46:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.96 Mbit/s  
95th percentile per-packet one-way delay: 25.729 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 84.96 Mbit/s  
95th percentile per-packet one-way delay: 25.729 ms  
Loss rate: 0.13%

# Run 1: Report of LEDBAT — Data Link

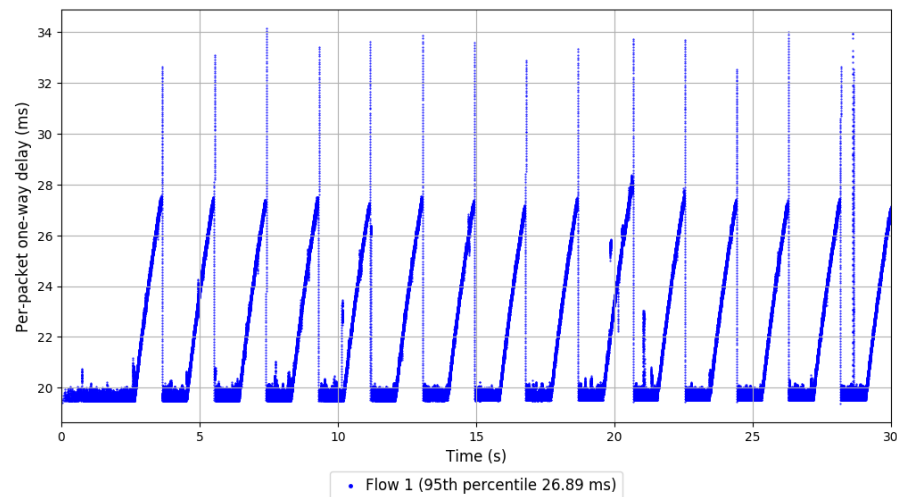
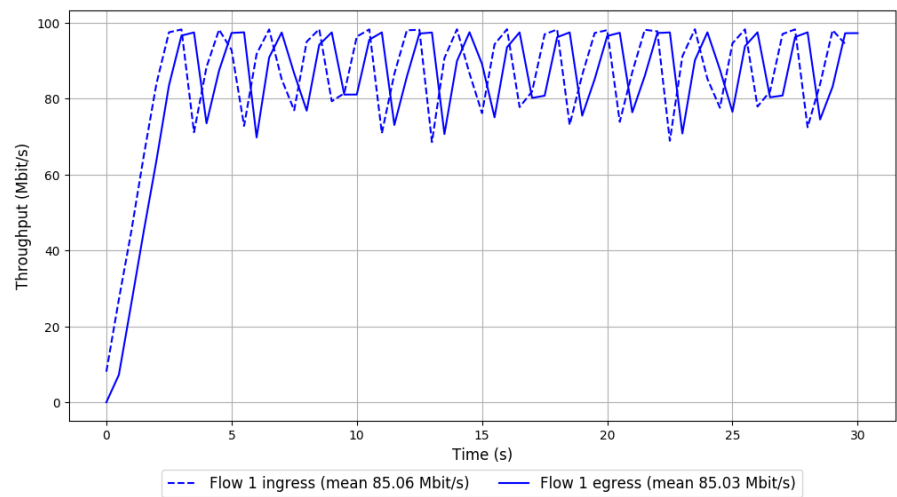


Run 2: Statistics of LEDBAT

Start at: 2019-03-27 07:21:26  
End at: 2019-03-27 07:21:56  
Local clock offset: 2.222 ms  
Remote clock offset: -0.927 ms

# Below is generated by plot.py at 2019-03-27 08:47:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.03 Mbit/s  
95th percentile per-packet one-way delay: 26.889 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 85.03 Mbit/s  
95th percentile per-packet one-way delay: 26.889 ms  
Loss rate: 0.04%

Run 2: Report of LEDBAT — Data Link



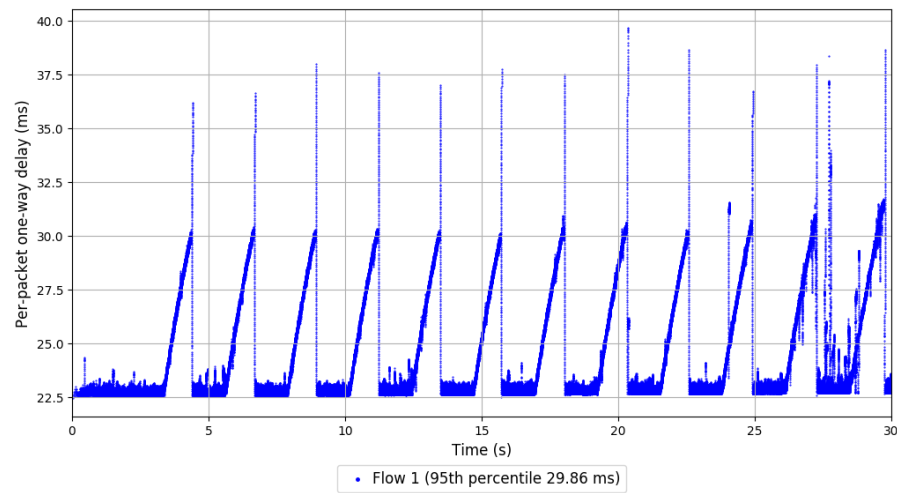
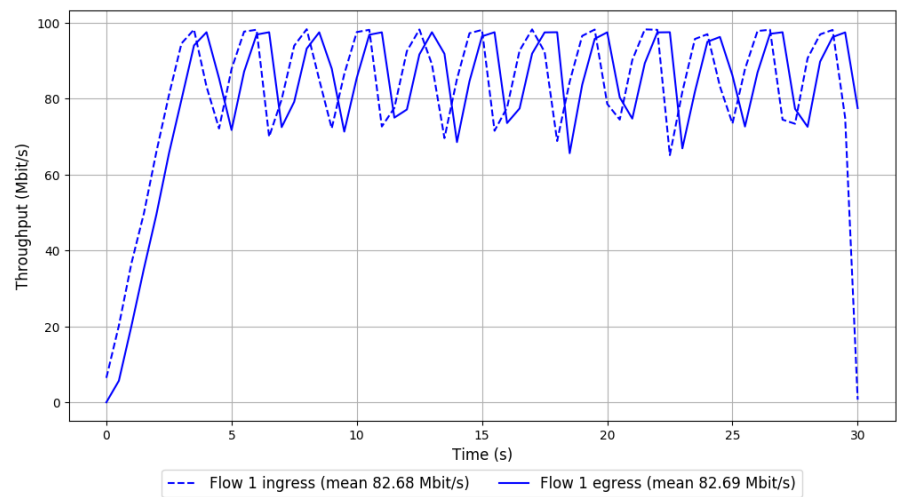


Run 3: Statistics of LEDBAT

Start at: 2019-03-27 07:46:02  
End at: 2019-03-27 07:46:32  
Local clock offset: 1.293 ms  
Remote clock offset: -0.385 ms

# Below is generated by plot.py at 2019-03-27 08:47:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 82.69 Mbit/s  
95th percentile per-packet one-way delay: 29.864 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 82.69 Mbit/s  
95th percentile per-packet one-way delay: 29.864 ms  
Loss rate: 0.09%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-03-27 08:10:30

End at: 2019-03-27 08:11:00

Local clock offset: -0.945 ms

Remote clock offset: 1.696 ms

# Below is generated by plot.py at 2019-03-27 08:47:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.98 Mbit/s

95th percentile per-packet one-way delay: 26.010 ms

Loss rate: 0.12%

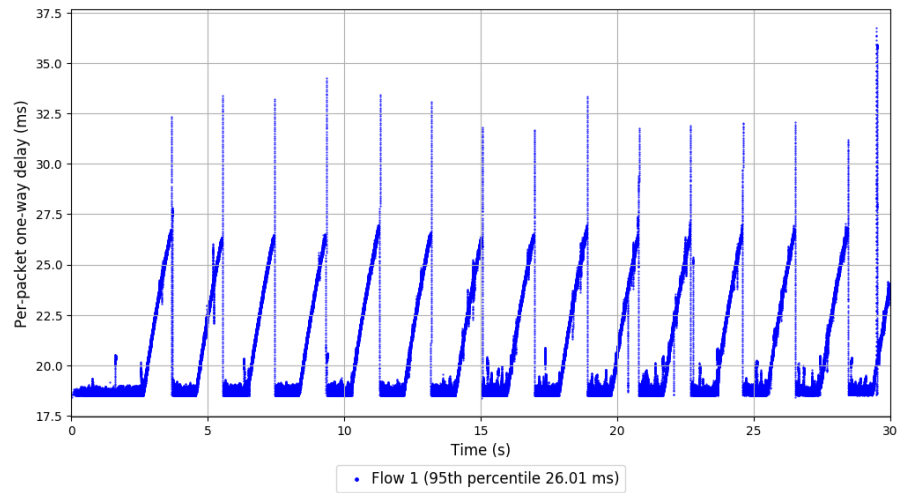
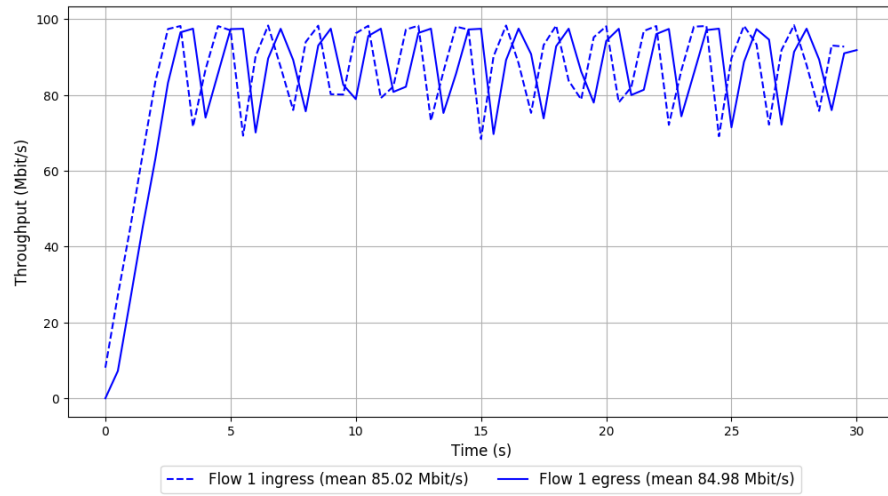
-- Flow 1:

Average throughput: 84.98 Mbit/s

95th percentile per-packet one-way delay: 26.010 ms

Loss rate: 0.12%

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

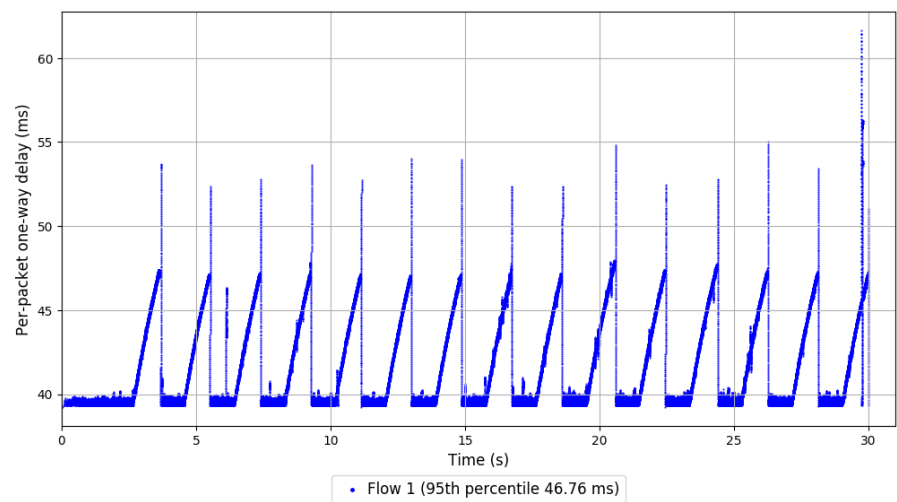
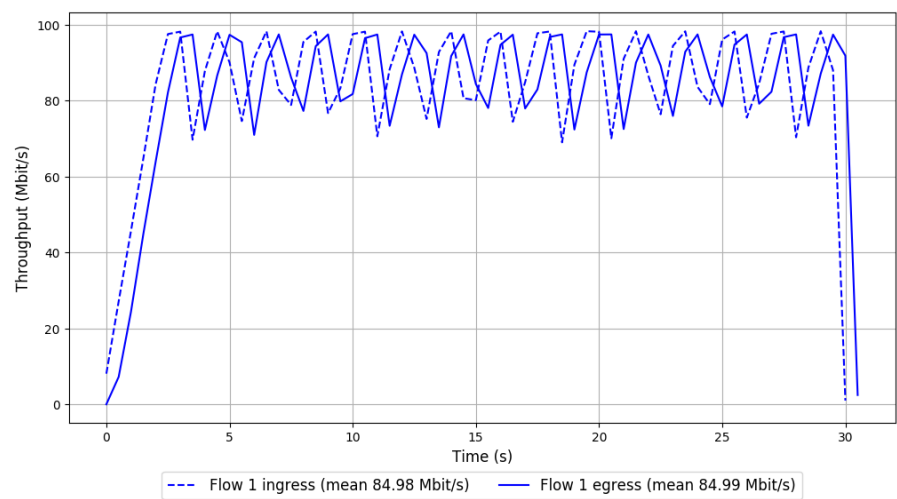


Run 5: Statistics of LEDBAT

Start at: 2019-03-27 08:35:27  
End at: 2019-03-27 08:35:57  
Local clock offset: -1.447 ms  
Remote clock offset: -18.488 ms

# Below is generated by plot.py at 2019-03-27 08:47:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.99 Mbit/s  
95th percentile per-packet one-way delay: 46.756 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 84.99 Mbit/s  
95th percentile per-packet one-way delay: 46.756 ms  
Loss rate: 0.07%

Run 5: Report of LEDBAT — Data Link

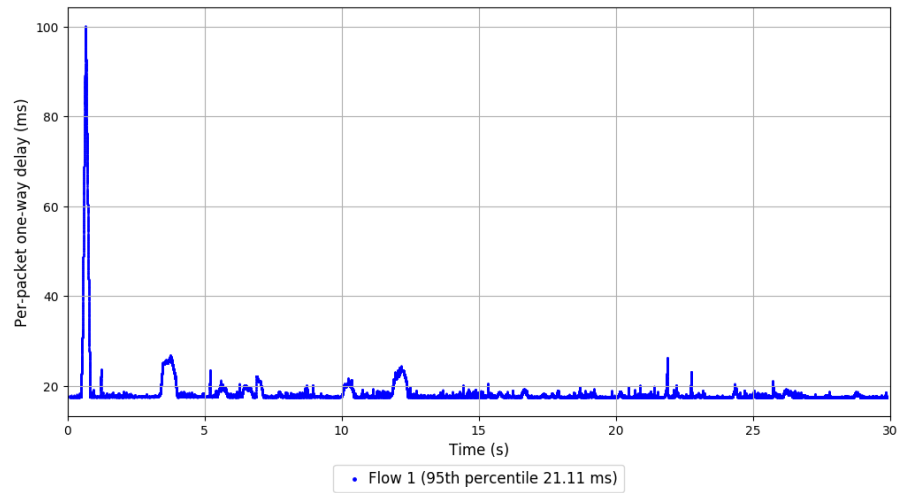
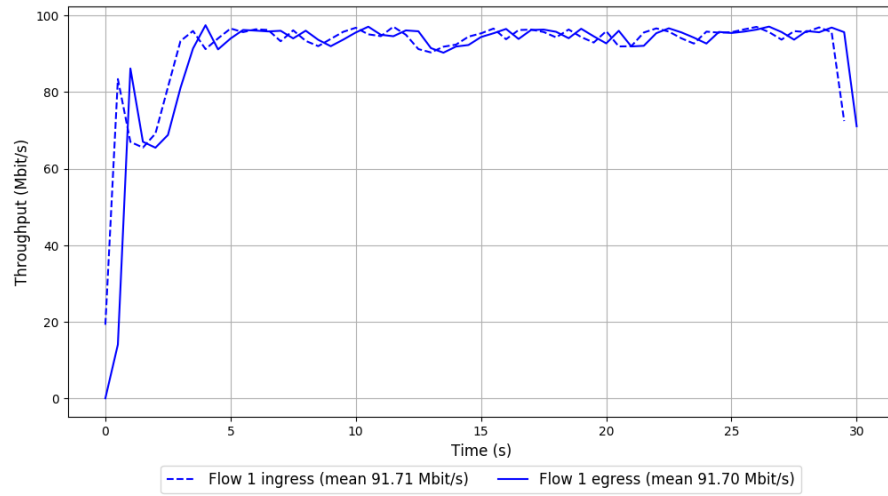


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-03-27 06:46:15
End at: 2019-03-27 06:46:45
Local clock offset: -0.451 ms
Remote clock offset: 0.914 ms

# Below is generated by plot.py at 2019-03-27 08:47:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.70 Mbit/s
95th percentile per-packet one-way delay: 21.114 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 91.70 Mbit/s
95th percentile per-packet one-way delay: 21.114 ms
Loss rate: 0.09%
```

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



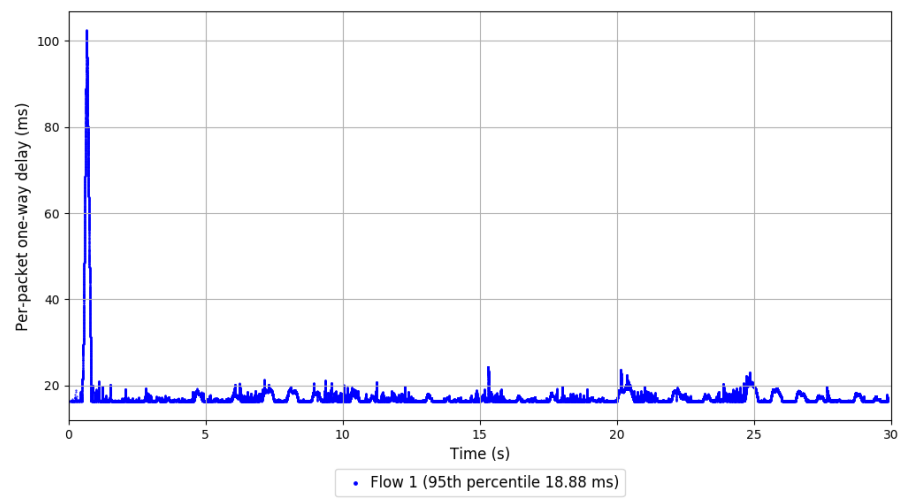
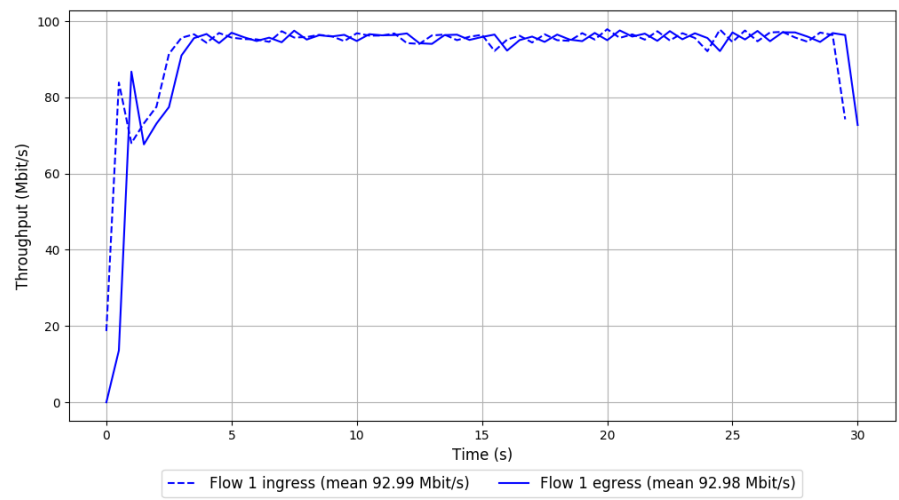


Run 2: Statistics of PCC-Allegro

Start at: 2019-03-27 07:12:09  
End at: 2019-03-27 07:12:39  
Local clock offset: -0.237 ms  
Remote clock offset: -0.693 ms

# Below is generated by plot.py at 2019-03-27 08:47:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.98 Mbit/s  
95th percentile per-packet one-way delay: 18.881 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 92.98 Mbit/s  
95th percentile per-packet one-way delay: 18.881 ms  
Loss rate: 0.09%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-03-27 07:37:43

End at: 2019-03-27 07:38:13

Local clock offset: 1.83 ms

Remote clock offset: 0.968 ms

# Below is generated by plot.py at 2019-03-27 08:47:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.83 Mbit/s

95th percentile per-packet one-way delay: 19.864 ms

Loss rate: 0.09%

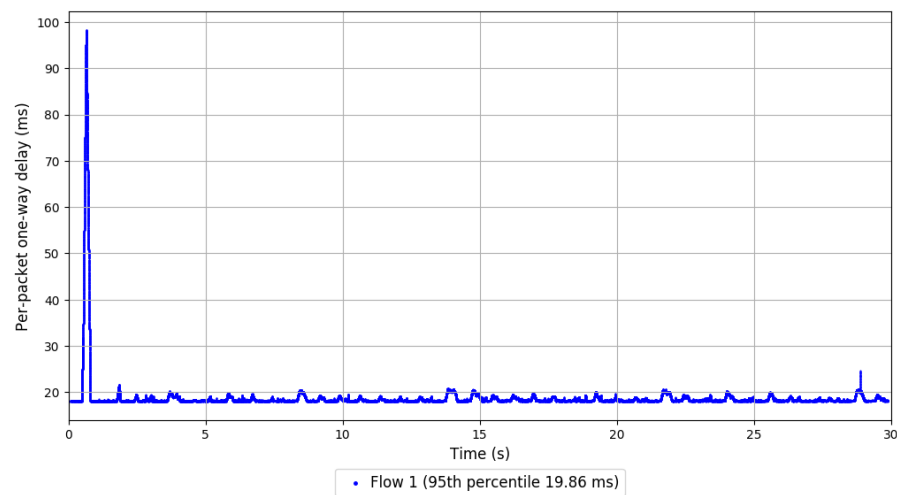
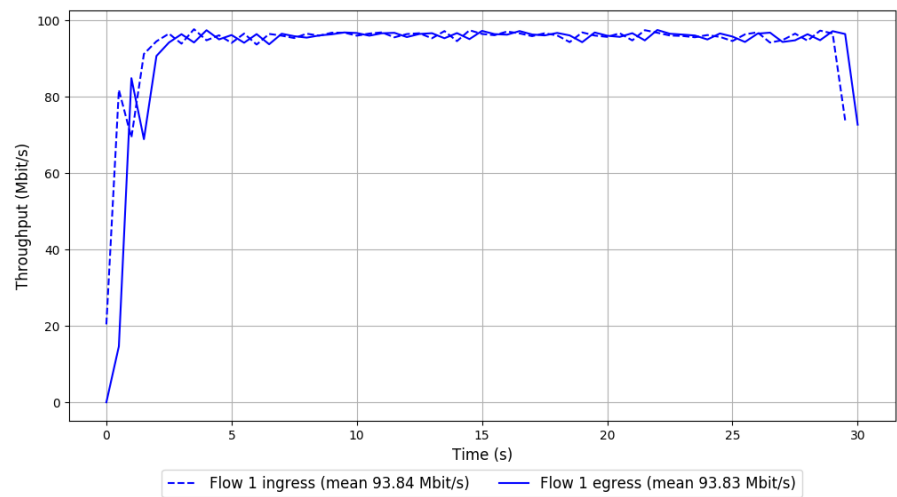
-- Flow 1:

Average throughput: 93.83 Mbit/s

95th percentile per-packet one-way delay: 19.864 ms

Loss rate: 0.09%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-03-27 08:02:20

End at: 2019-03-27 08:02:50

Local clock offset: -1.049 ms

Remote clock offset: 0.073 ms

# Below is generated by plot.py at 2019-03-27 08:48:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.68 Mbit/s

95th percentile per-packet one-way delay: 25.147 ms

Loss rate: 0.11%

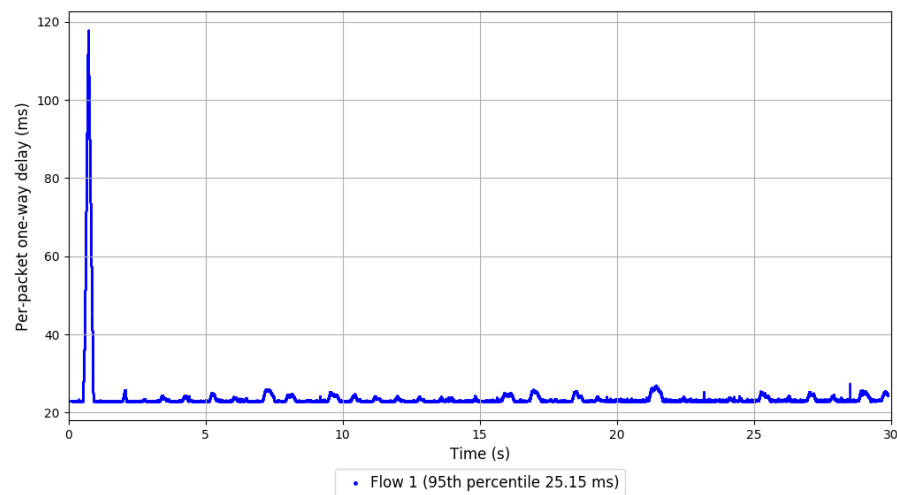
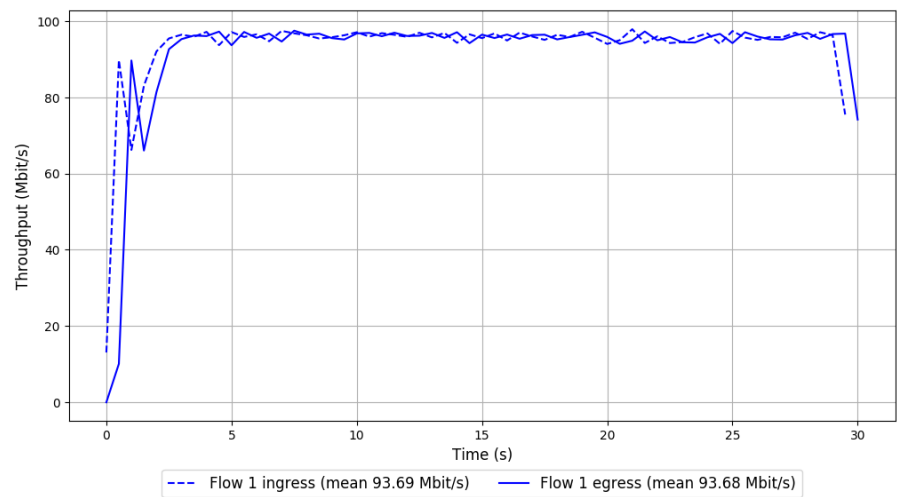
-- Flow 1:

Average throughput: 93.68 Mbit/s

95th percentile per-packet one-way delay: 25.147 ms

Loss rate: 0.11%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

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

End at: 2019-03-27 08:27:39

Local clock offset: -0.813 ms

Remote clock offset: 1.175 ms

# Below is generated by plot.py at 2019-03-27 08:48:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.88 Mbit/s

95th percentile per-packet one-way delay: 23.478 ms

Loss rate: 0.09%

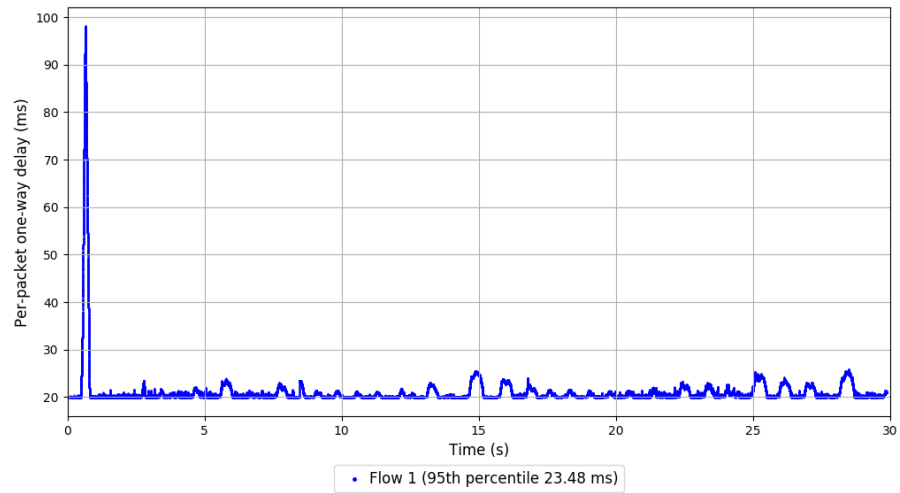
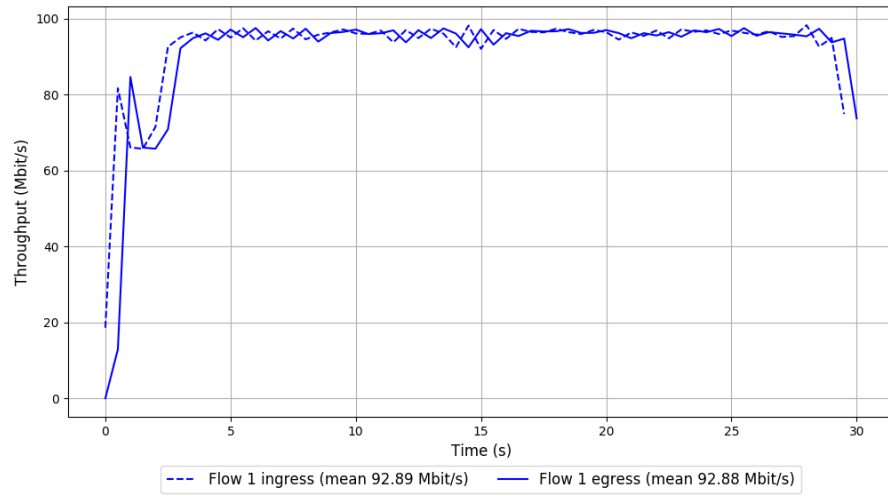
-- Flow 1:

Average throughput: 92.88 Mbit/s

95th percentile per-packet one-way delay: 23.478 ms

Loss rate: 0.09%

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



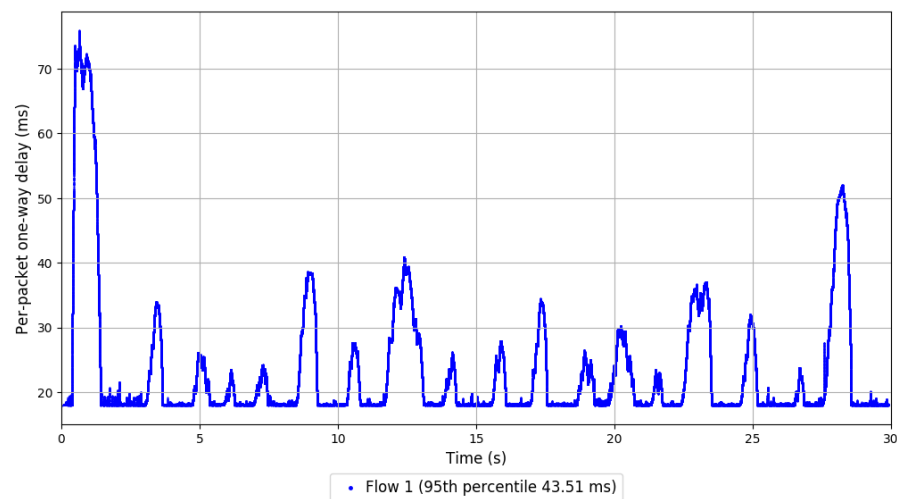
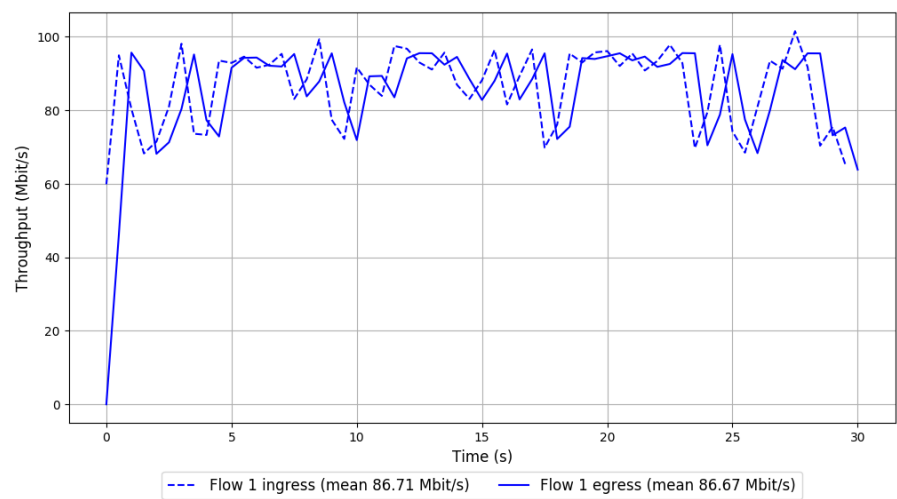


```
Run 1: Statistics of PCC-Expr

Start at: 2019-03-27 06:42:06
End at: 2019-03-27 06:42:36
Local clock offset: -0.746 ms
Remote clock offset: 0.495 ms

# Below is generated by plot.py at 2019-03-27 08:49:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.67 Mbit/s
95th percentile per-packet one-way delay: 43.511 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 86.67 Mbit/s
95th percentile per-packet one-way delay: 43.511 ms
Loss rate: 0.12%
```

Run 1: Report of PCC-Expr — Data Link

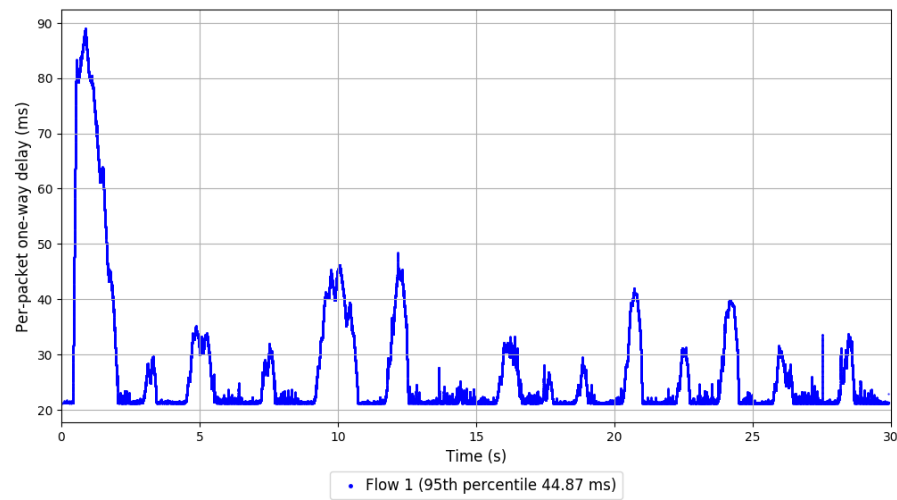
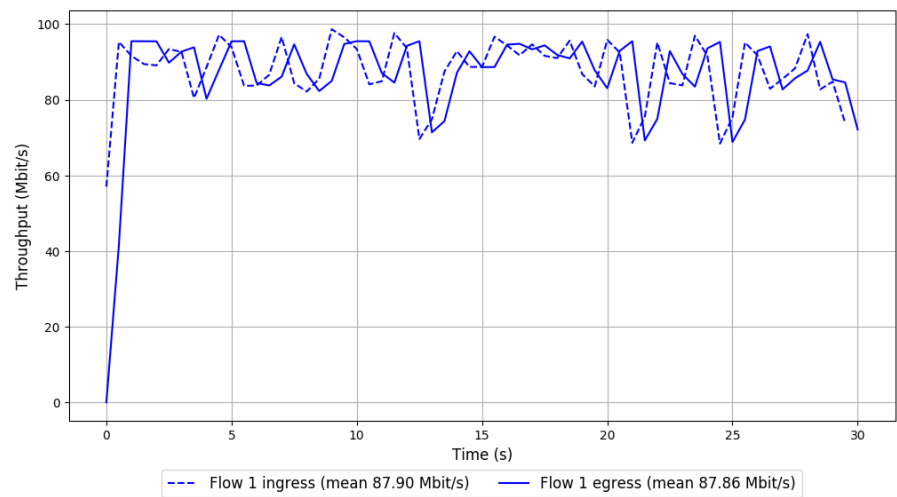


Run 2: Statistics of PCC-Expr

Start at: 2019-03-27 07:08:11  
End at: 2019-03-27 07:08:41  
Local clock offset: 0.812 ms  
Remote clock offset: -0.934 ms

# Below is generated by plot.py at 2019-03-27 08:49:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.86 Mbit/s  
95th percentile per-packet one-way delay: 44.869 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 87.86 Mbit/s  
95th percentile per-packet one-way delay: 44.869 ms  
Loss rate: 0.14%

Run 2: Report of PCC-Expr — Data Link

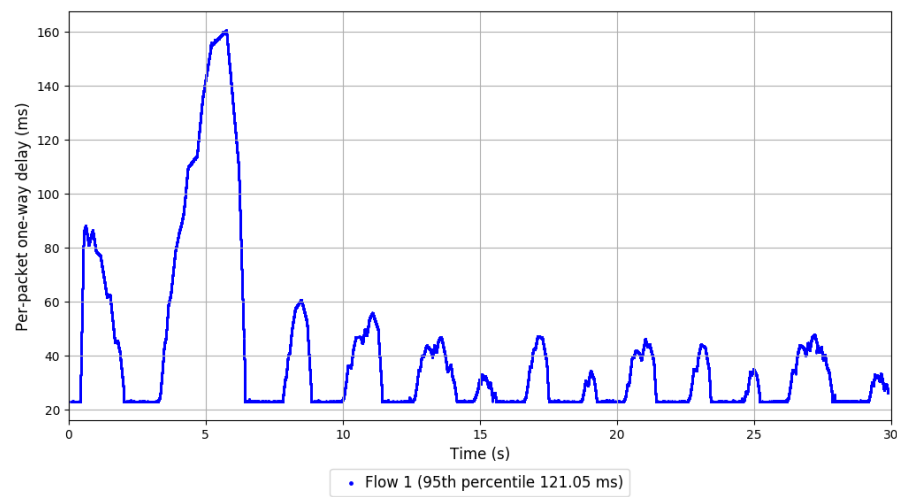
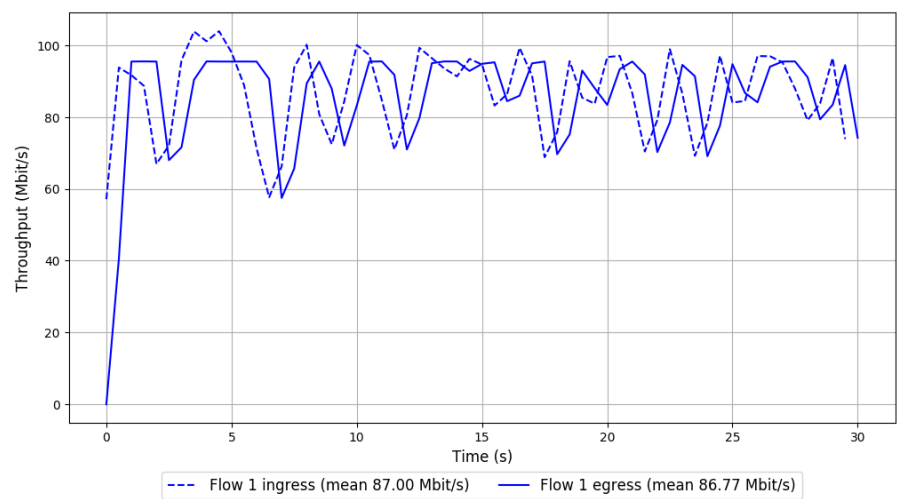


Run 3: Statistics of PCC-Expr

Start at: 2019-03-27 07:34:16  
End at: 2019-03-27 07:34:46  
Local clock offset: 2.223 ms  
Remote clock offset: -0.658 ms

# Below is generated by plot.py at 2019-03-27 08:49:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.77 Mbit/s  
95th percentile per-packet one-way delay: 121.050 ms  
Loss rate: 0.36%  
-- Flow 1:  
Average throughput: 86.77 Mbit/s  
95th percentile per-packet one-way delay: 121.050 ms  
Loss rate: 0.36%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-03-27 07:58:51

End at: 2019-03-27 07:59:21

Local clock offset: -1.435 ms

Remote clock offset: 1.142 ms

# Below is generated by plot.py at 2019-03-27 08:49:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.56 Mbit/s

95th percentile per-packet one-way delay: 37.213 ms

Loss rate: 0.14%

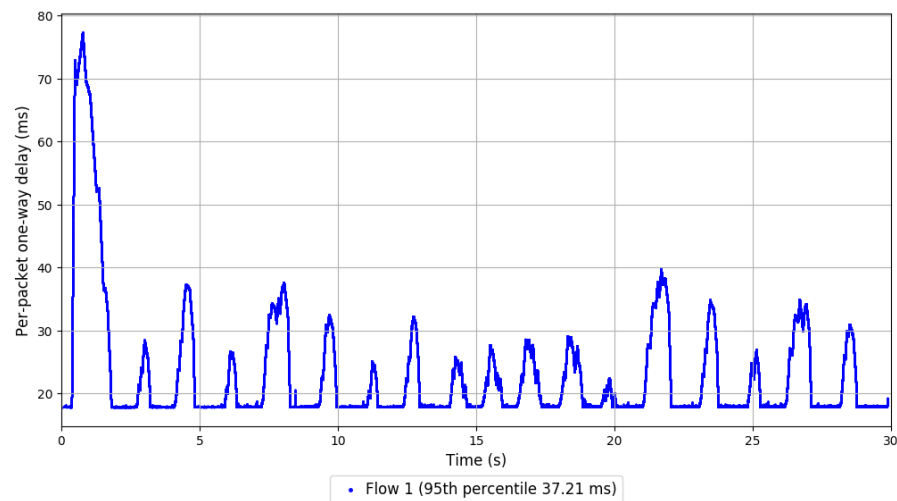
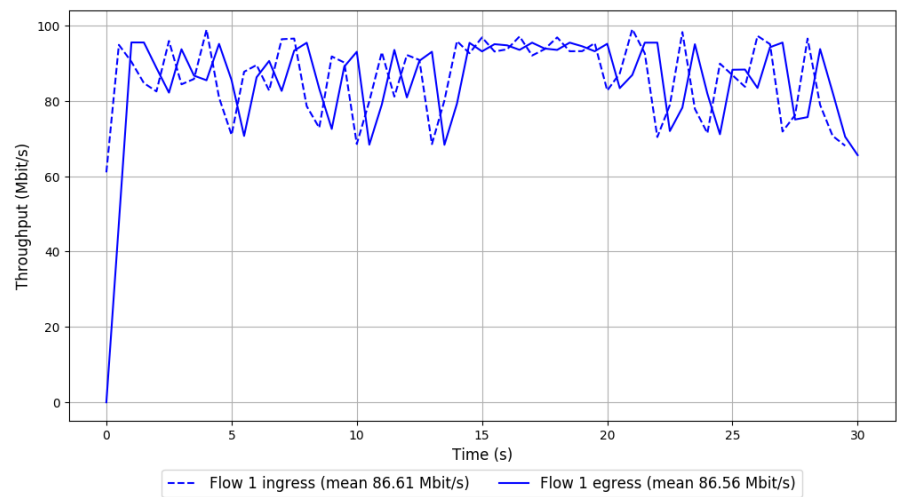
-- Flow 1:

Average throughput: 86.56 Mbit/s

95th percentile per-packet one-way delay: 37.213 ms

Loss rate: 0.14%

Run 4: Report of PCC-Expr — Data Link





Run 5: Statistics of PCC-Expr

Start at: 2019-03-27 08:23:35

End at: 2019-03-27 08:24:05

Local clock offset: -0.616 ms

Remote clock offset: 1.048 ms

# Below is generated by plot.py at 2019-03-27 08:49:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.60 Mbit/s

95th percentile per-packet one-way delay: 43.288 ms

Loss rate: 0.12%

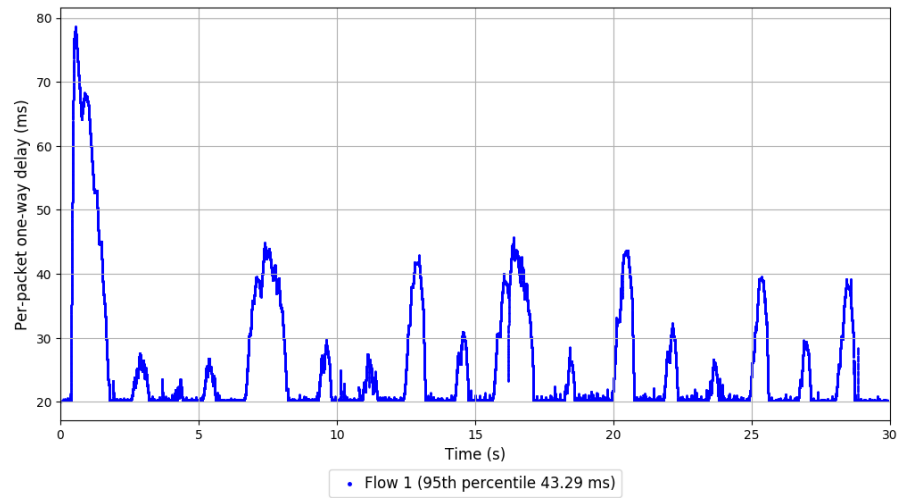
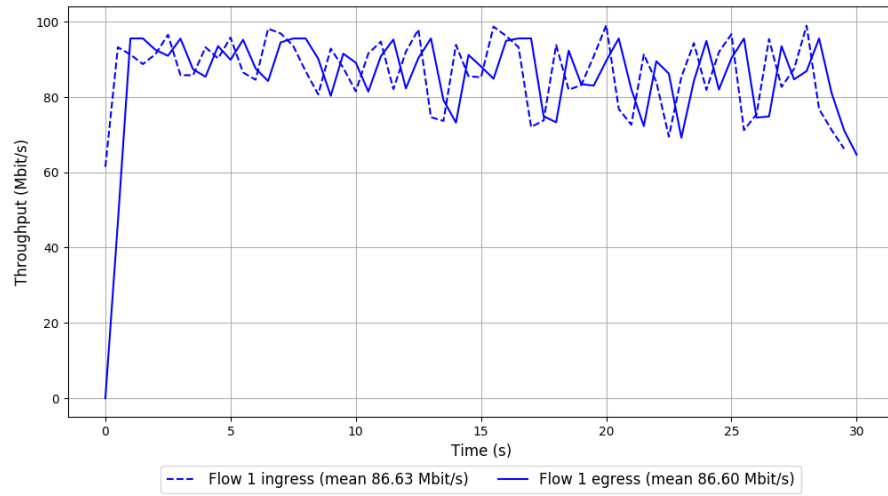
-- Flow 1:

Average throughput: 86.60 Mbit/s

95th percentile per-packet one-way delay: 43.288 ms

Loss rate: 0.12%

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



Run 1: Statistics of QUIC Cubic

Start at: 2019-03-27 06:50:00

End at: 2019-03-27 06:50:30

Local clock offset: -0.32 ms

Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-03-27 08:49:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.81 Mbit/s

95th percentile per-packet one-way delay: 25.781 ms

Loss rate: 0.12%

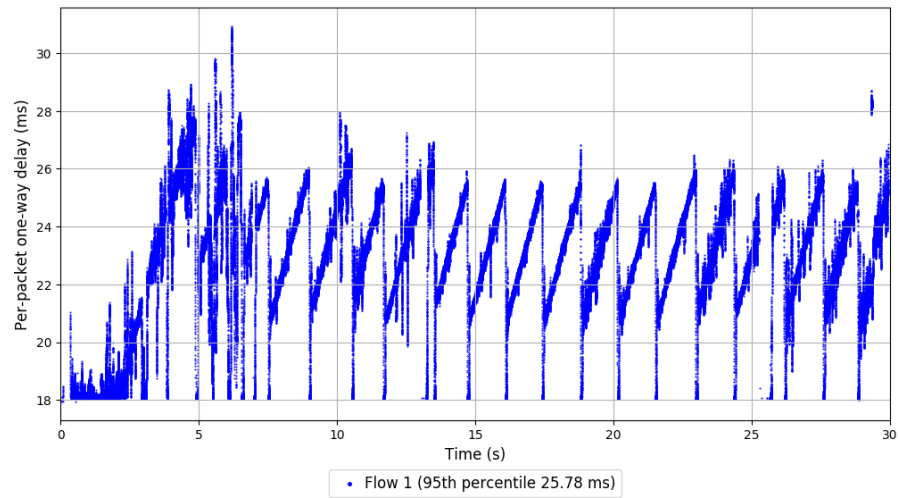
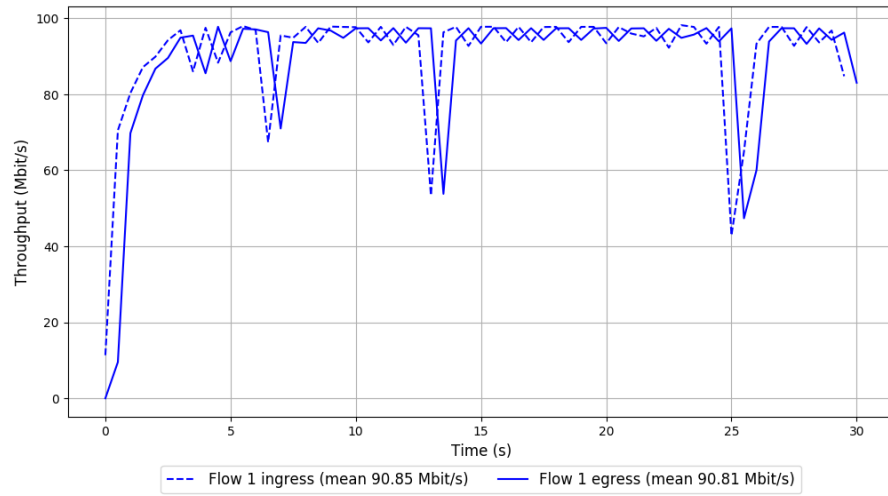
-- Flow 1:

Average throughput: 90.81 Mbit/s

95th percentile per-packet one-way delay: 25.781 ms

Loss rate: 0.12%

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



Run 2: Statistics of QUIC Cubic

Start at: 2019-03-27 07:16:26

End at: 2019-03-27 07:16:56

Local clock offset: 1.371 ms

Remote clock offset: -0.7 ms

# Below is generated by plot.py at 2019-03-27 08:49:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.68 Mbit/s

95th percentile per-packet one-way delay: 30.042 ms

Loss rate: 0.12%

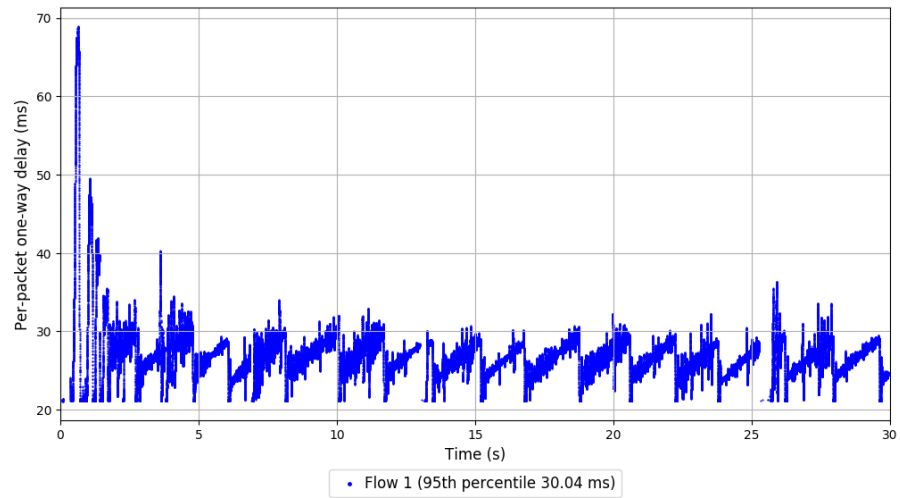
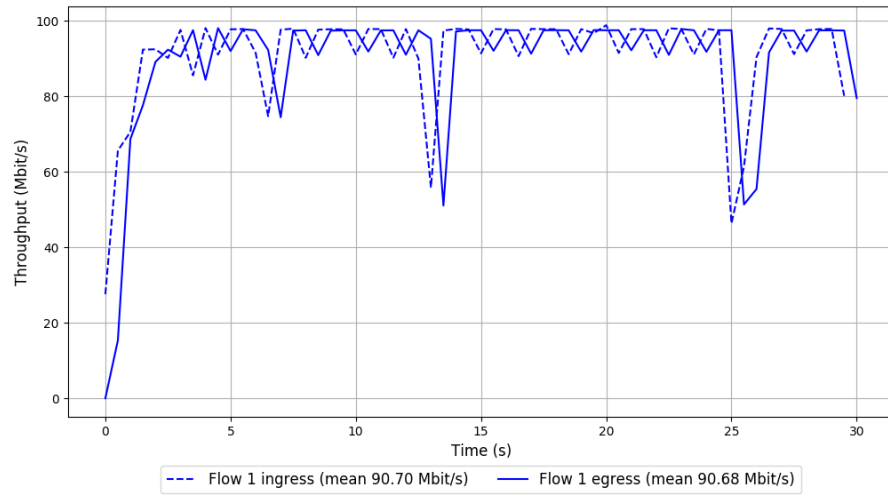
-- Flow 1:

Average throughput: 90.68 Mbit/s

95th percentile per-packet one-way delay: 30.042 ms

Loss rate: 0.12%

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



Run 3: Statistics of QUIC Cubic

Start at: 2019-03-27 07:41:20

End at: 2019-03-27 07:41:50

Local clock offset: 1.43 ms

Remote clock offset: -0.219 ms

# Below is generated by plot.py at 2019-03-27 08:49:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.33 Mbit/s

95th percentile per-packet one-way delay: 26.880 ms

Loss rate: 0.13%

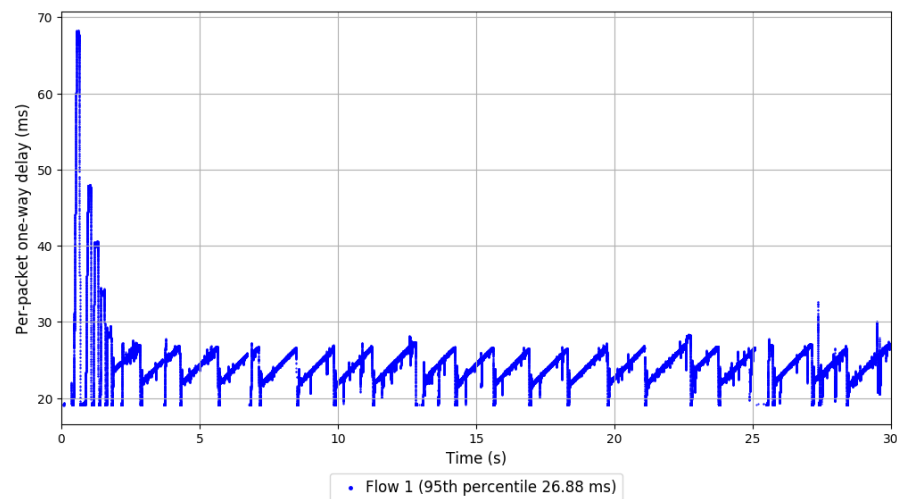
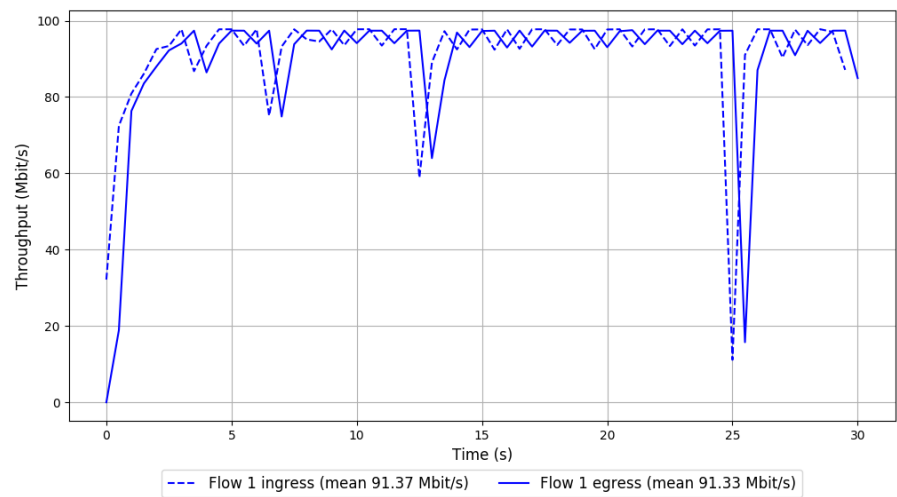
-- Flow 1:

Average throughput: 91.33 Mbit/s

95th percentile per-packet one-way delay: 26.880 ms

Loss rate: 0.13%

Run 3: Report of QUIC Cubic — Data Link





Run 4: Statistics of QUIC Cubic

Start at: 2019-03-27 08:05:54

End at: 2019-03-27 08:06:24

Local clock offset: -1.213 ms

Remote clock offset: 1.014 ms

# Below is generated by plot.py at 2019-03-27 08:50:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.81 Mbit/s

95th percentile per-packet one-way delay: 26.110 ms

Loss rate: 0.12%

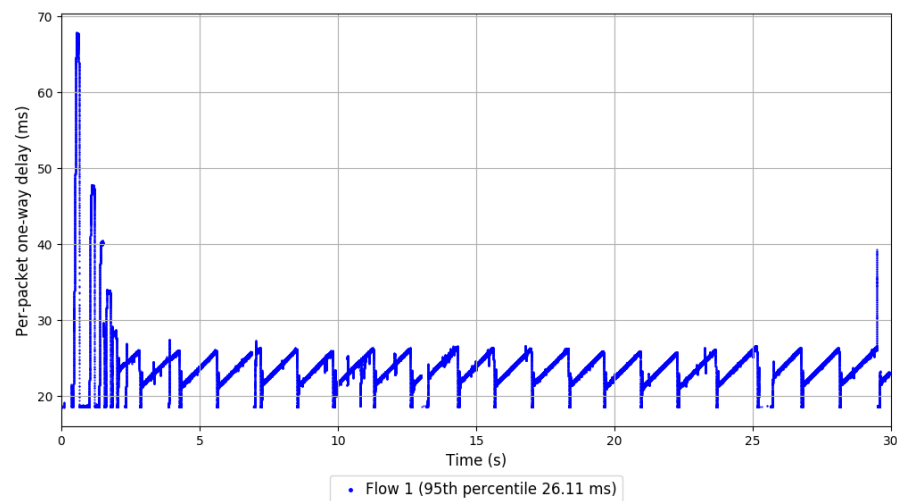
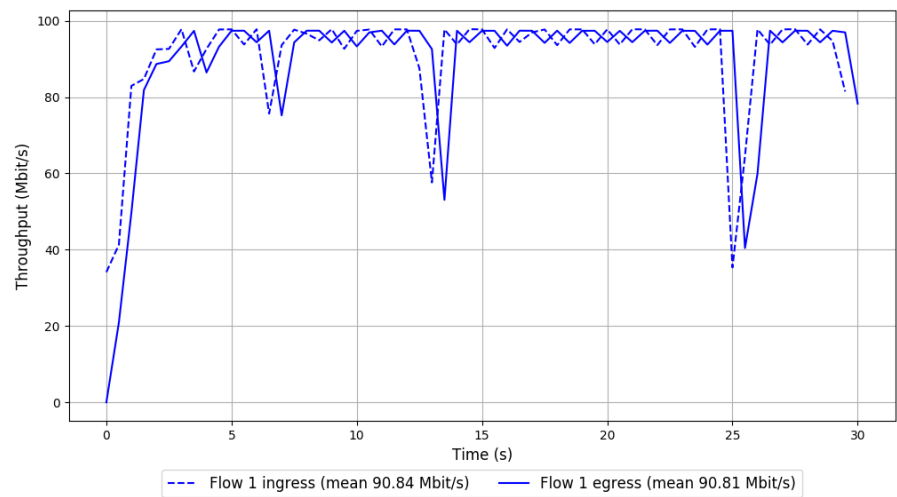
-- Flow 1:

Average throughput: 90.81 Mbit/s

95th percentile per-packet one-way delay: 26.110 ms

Loss rate: 0.12%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-03-27 08:30:47

End at: 2019-03-27 08:31:18

Local clock offset: -1.582 ms

Remote clock offset: 1.146 ms

# Below is generated by plot.py at 2019-03-27 08:50:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.33 Mbit/s

95th percentile per-packet one-way delay: 26.734 ms

Loss rate: 0.12%

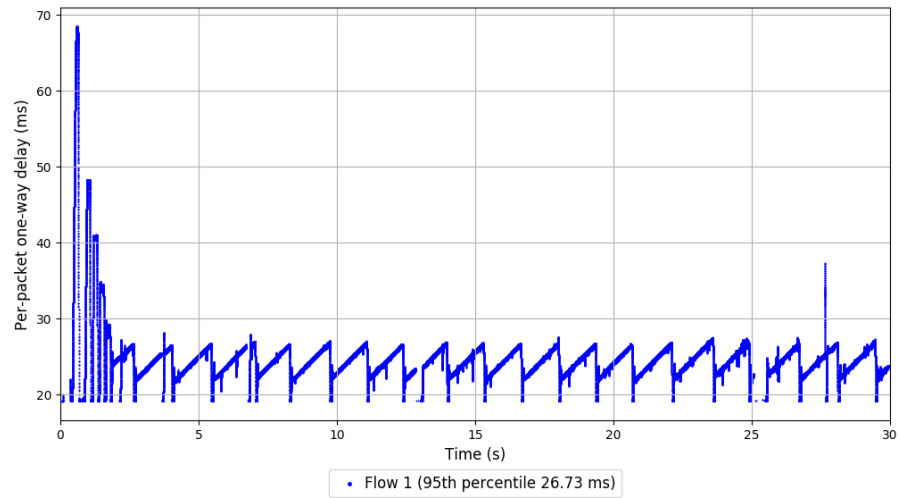
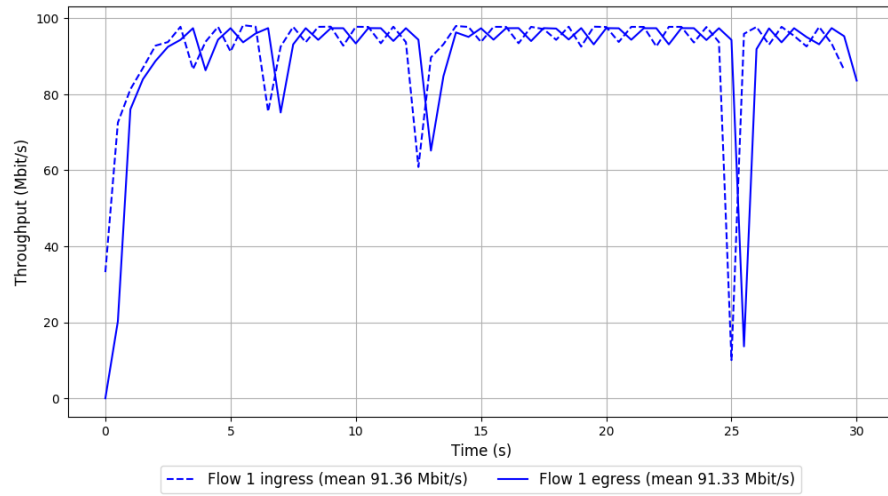
-- Flow 1:

Average throughput: 91.33 Mbit/s

95th percentile per-packet one-way delay: 26.734 ms

Loss rate: 0.12%

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

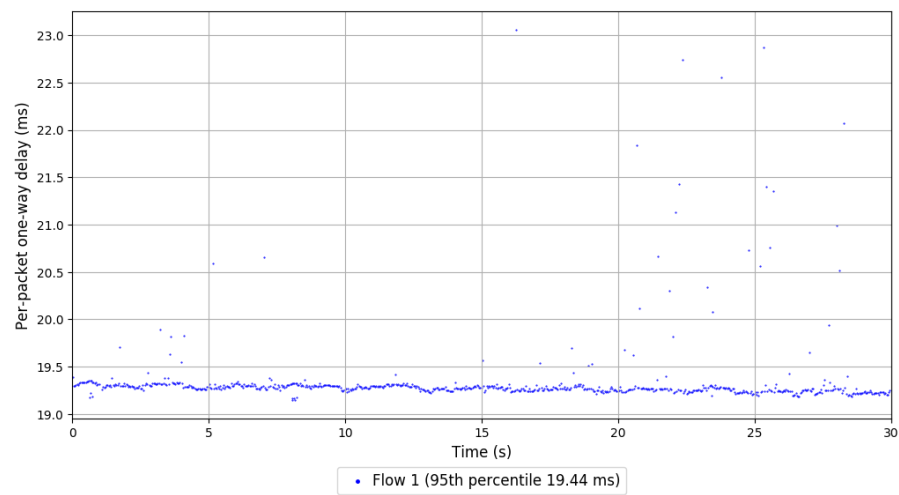
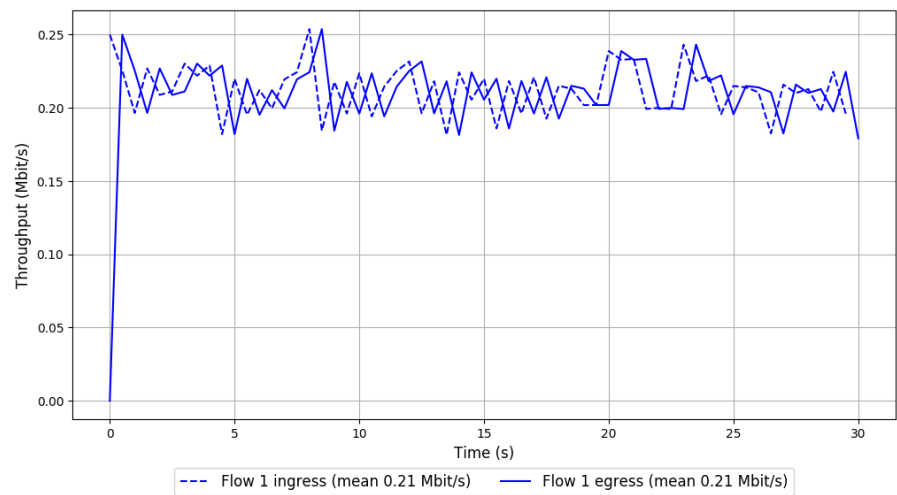


```
Run 1: Statistics of SCReAM

Start at: 2019-03-27 06:56:07
End at: 2019-03-27 06:56:37
Local clock offset: 2.062 ms
Remote clock offset: 0.397 ms

# Below is generated by plot.py at 2019-03-27 08:50:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 19.437 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 19.437 ms
Loss rate: 0.13%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-03-27 07:22:37

End at: 2019-03-27 07:23:07

Local clock offset: 1.491 ms

Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2019-03-27 08:50:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 18.075 ms

Loss rate: 0.13%

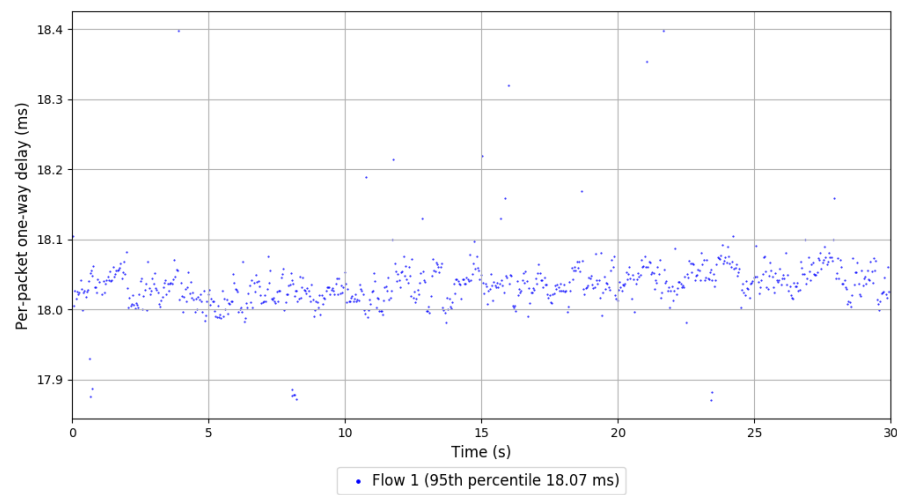
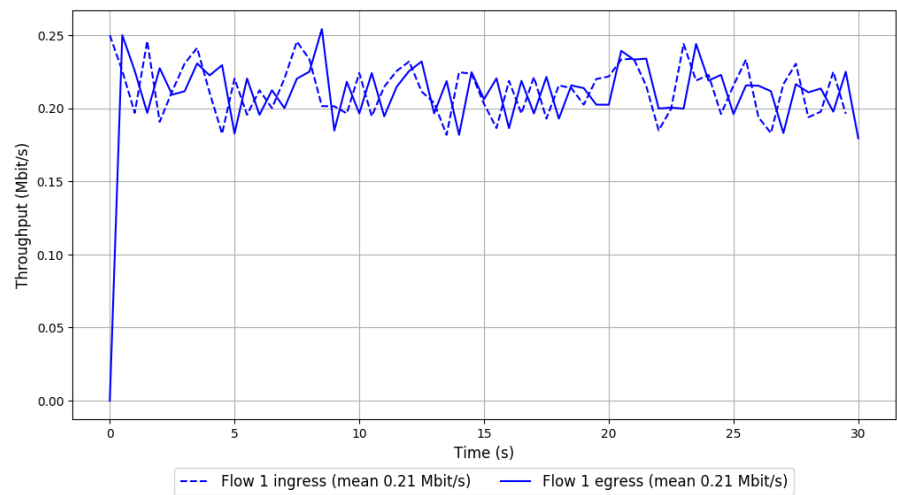
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 18.075 ms

Loss rate: 0.13%

Run 2: Report of SReAM — Data Link





Run 3: Statistics of SCReAM

Start at: 2019-03-27 07:47:12

End at: 2019-03-27 07:47:42

Local clock offset: 1.123 ms

Remote clock offset: 0.665 ms

# Below is generated by plot.py at 2019-03-27 08:50:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 21.841 ms

Loss rate: 0.13%

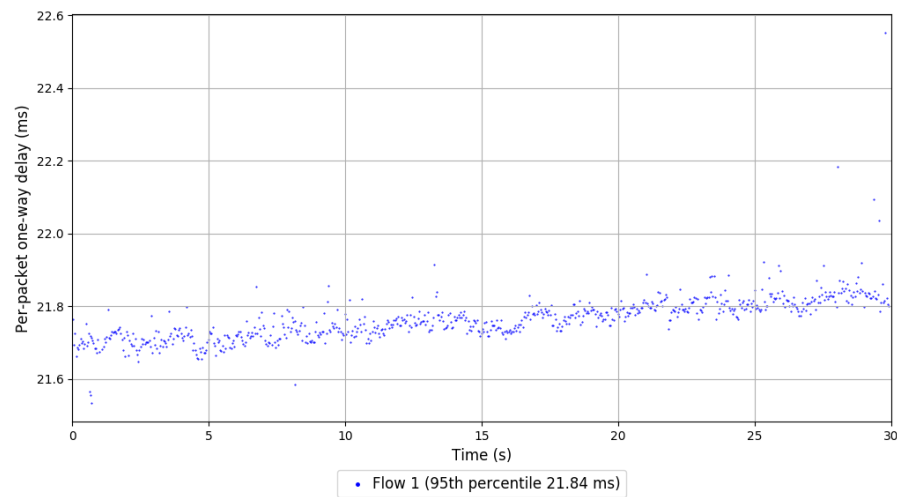
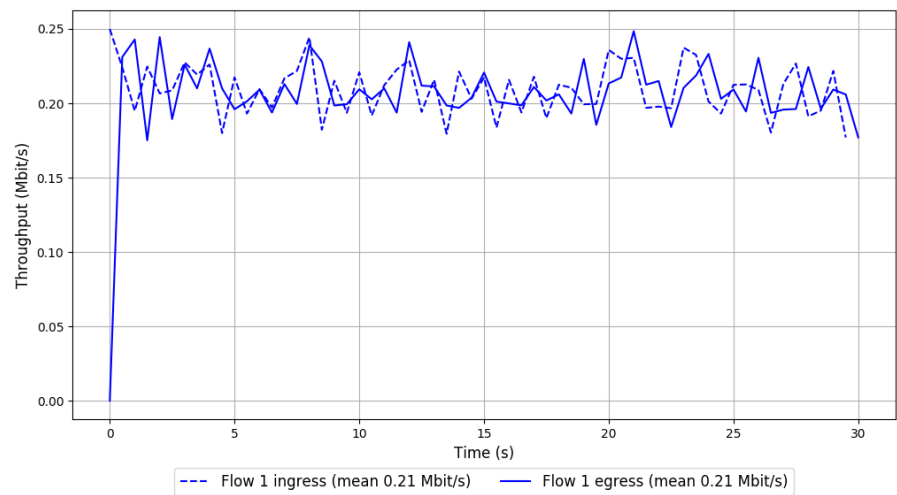
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 21.841 ms

Loss rate: 0.13%

Run 3: Report of SReAM — Data Link

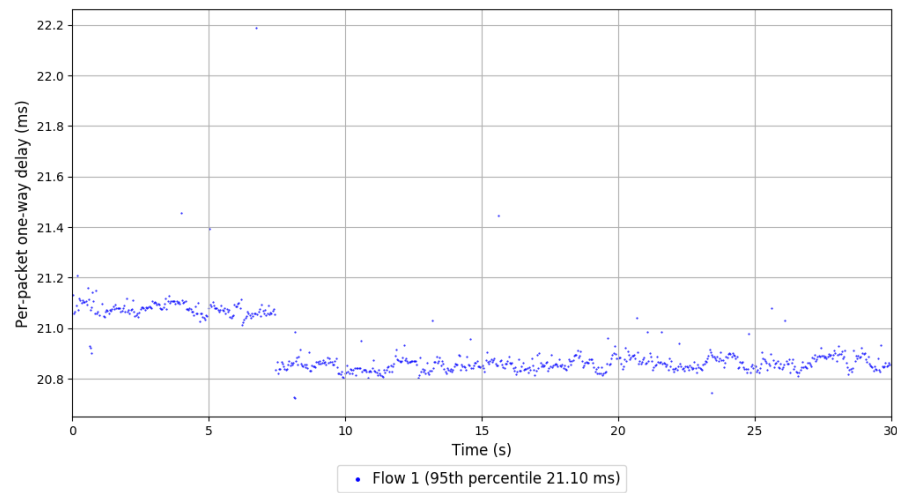
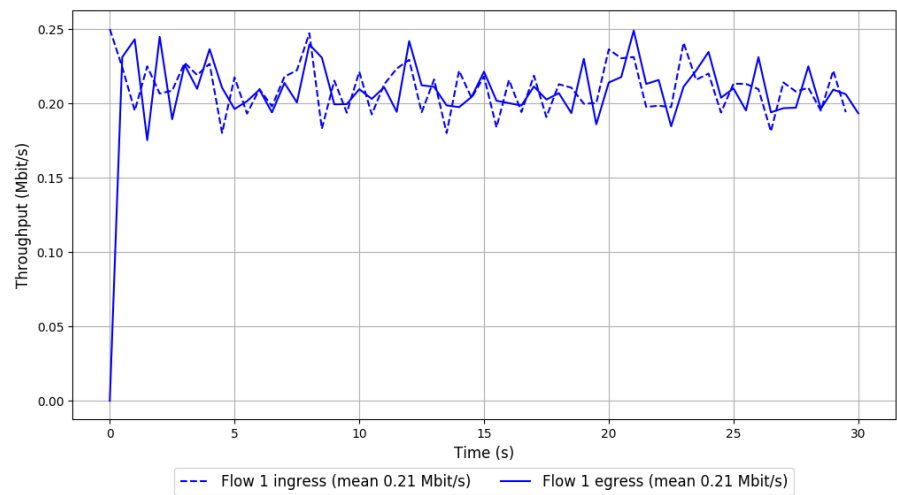


Run 4: Statistics of SCReAM

Start at: 2019-03-27 08:11:41  
End at: 2019-03-27 08:12:11  
Local clock offset: -8.208 ms  
Remote clock offset: -4.717 ms

# Below is generated by plot.py at 2019-03-27 08:50:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 21.099 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 21.099 ms  
Loss rate: 0.13%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-03-27 08:36:41

End at: 2019-03-27 08:37:11

Local clock offset: -1.125 ms

Remote clock offset: 1.133 ms

# Below is generated by plot.py at 2019-03-27 08:50:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 23.494 ms

Loss rate: 0.13%

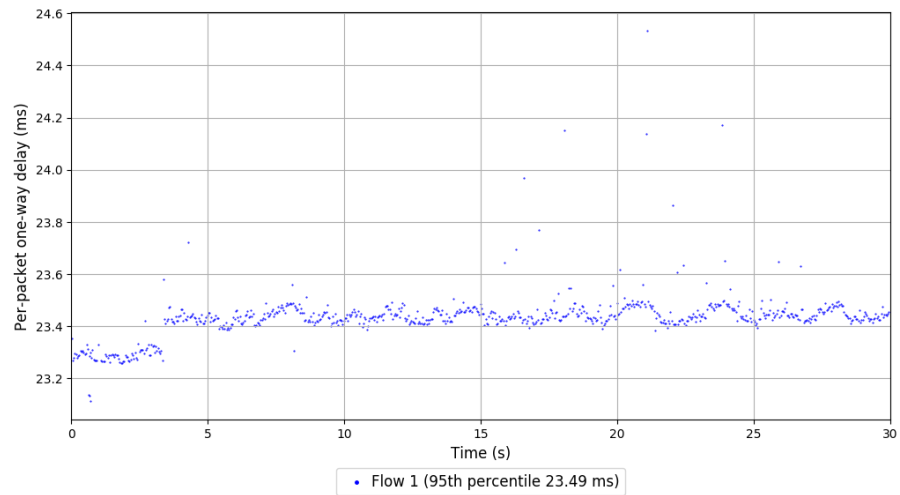
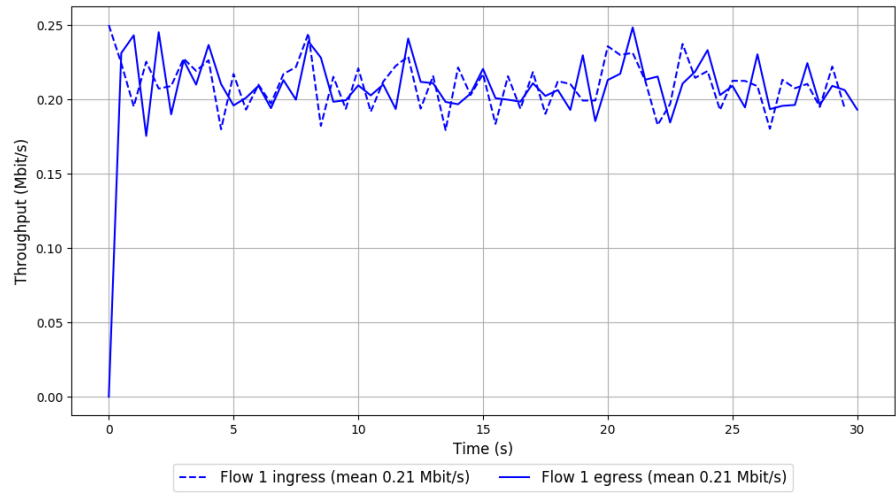
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 23.494 ms

Loss rate: 0.13%

## Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-03-27 06:45:07

End at: 2019-03-27 06:45:37

Local clock offset: -1.724 ms

Remote clock offset: 0.587 ms

# Below is generated by plot.py at 2019-03-27 08:50:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 24.57 Mbit/s

95th percentile per-packet one-way delay: 25.022 ms

Loss rate: 0.07%

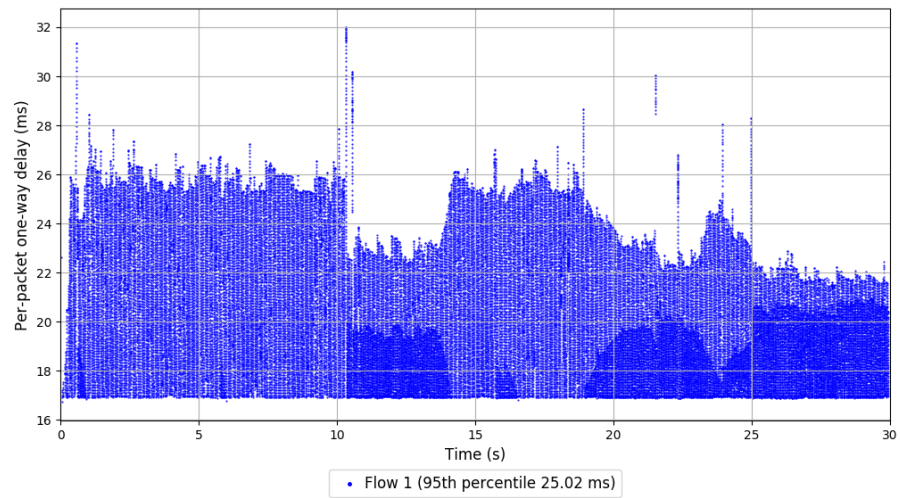
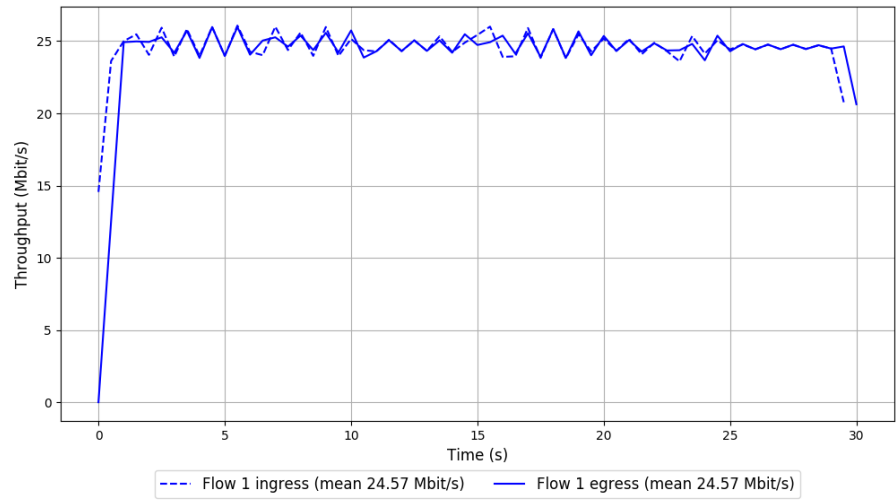
-- Flow 1:

Average throughput: 24.57 Mbit/s

95th percentile per-packet one-way delay: 25.022 ms

Loss rate: 0.07%

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



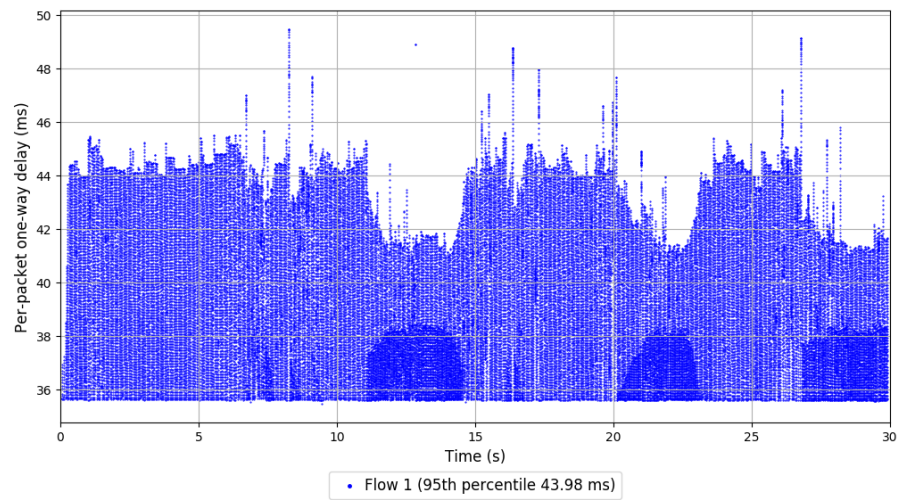
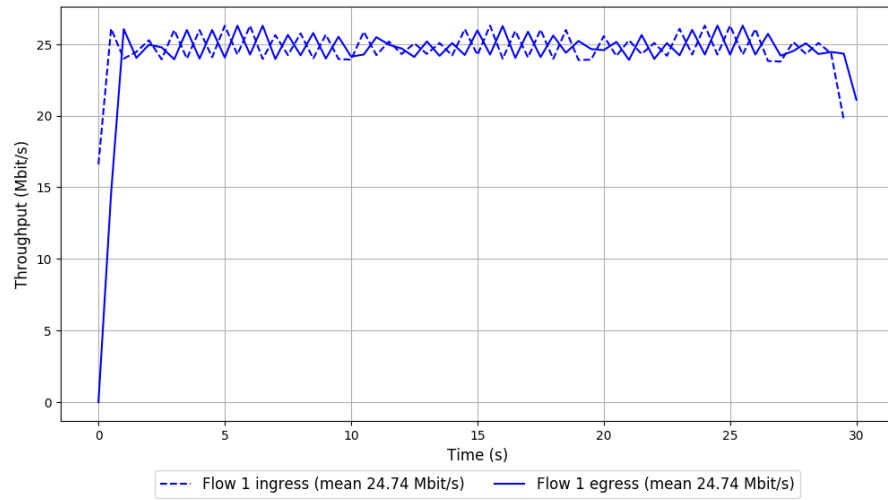


Run 2: Statistics of Sprout

Start at: 2019-03-27 07:11:01  
End at: 2019-03-27 07:11:31  
Local clock offset: 0.173 ms  
Remote clock offset: -19.327 ms

# Below is generated by plot.py at 2019-03-27 08:50:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.74 Mbit/s  
95th percentile per-packet one-way delay: 43.978 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 24.74 Mbit/s  
95th percentile per-packet one-way delay: 43.978 ms  
Loss rate: 0.04%

## Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-03-27 07:36:38

End at: 2019-03-27 07:37:08

Local clock offset: 2.403 ms

Remote clock offset: 0.594 ms

# Below is generated by plot.py at 2019-03-27 08:50:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 24.37 Mbit/s

95th percentile per-packet one-way delay: 23.167 ms

Loss rate: 0.07%

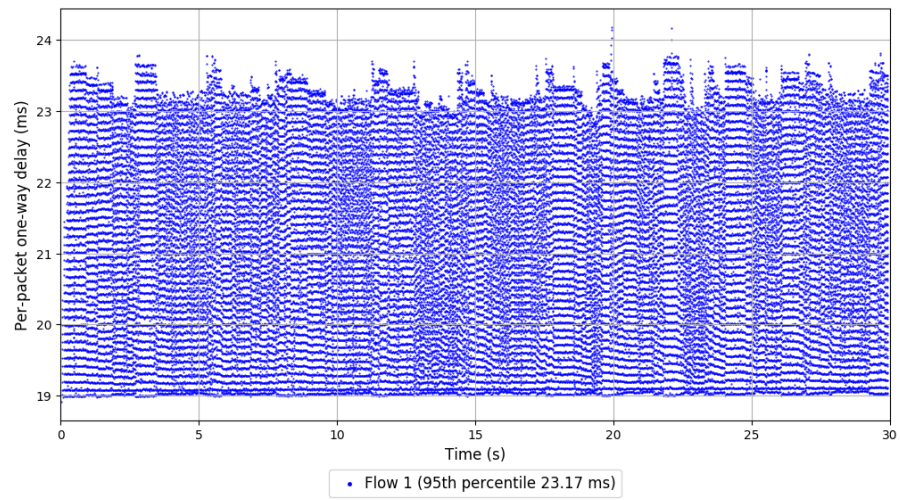
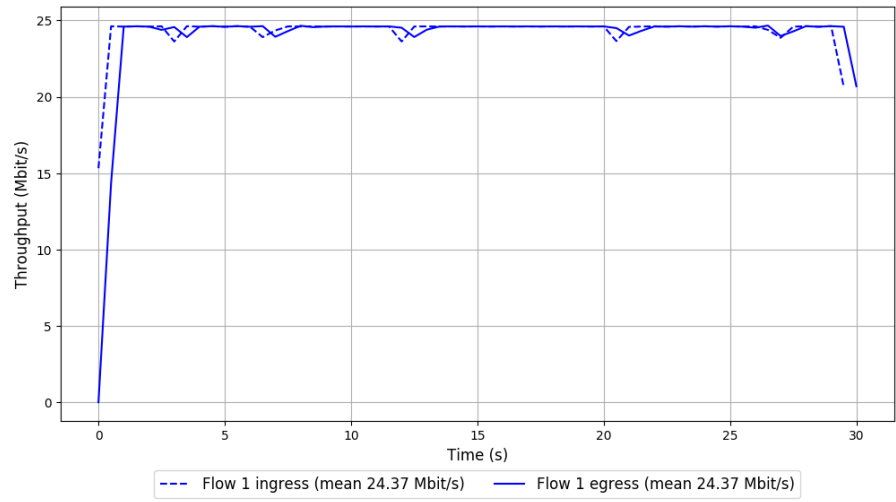
-- Flow 1:

Average throughput: 24.37 Mbit/s

95th percentile per-packet one-way delay: 23.167 ms

Loss rate: 0.07%

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

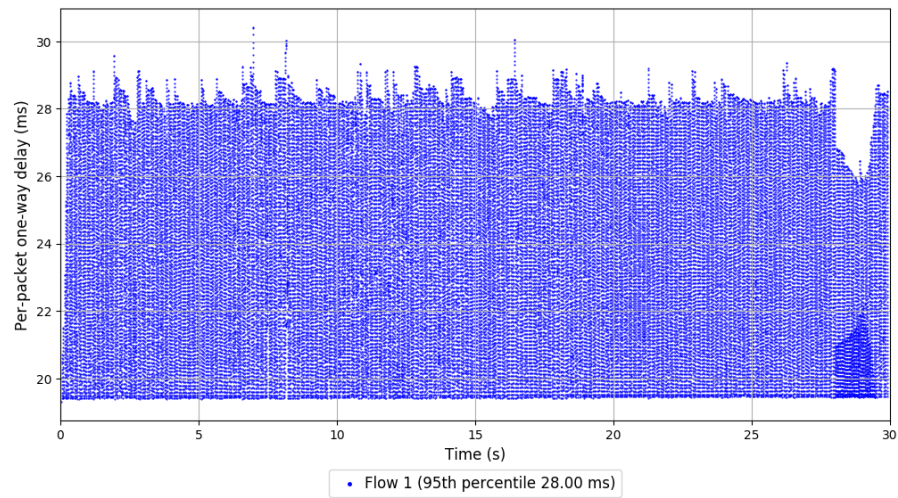
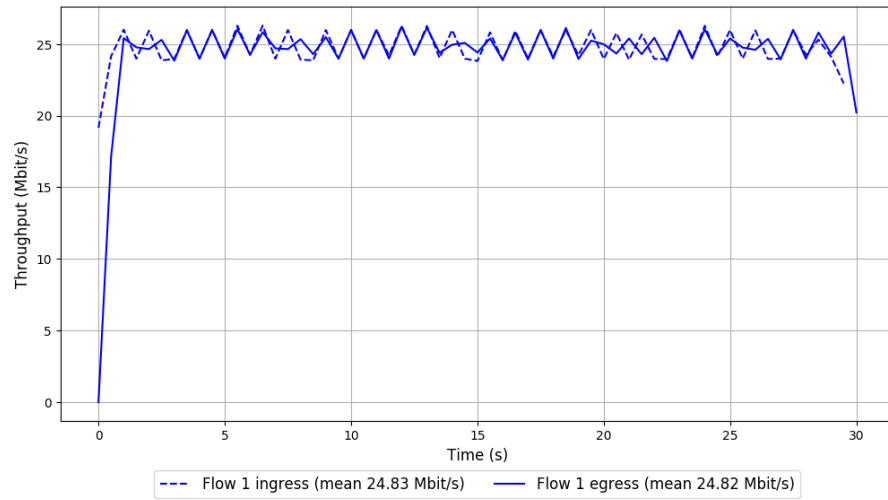


Run 4: Statistics of Sprout

Start at: 2019-03-27 08:01:14  
End at: 2019-03-27 08:01:44  
Local clock offset: -0.692 ms  
Remote clock offset: 0.826 ms

# Below is generated by plot.py at 2019-03-27 08:50:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.82 Mbit/s  
95th percentile per-packet one-way delay: 28.001 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 24.82 Mbit/s  
95th percentile per-packet one-way delay: 28.001 ms  
Loss rate: 0.14%

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



Run 5: Statistics of Sprout

Start at: 2019-03-27 08:26:03

End at: 2019-03-27 08:26:33

Local clock offset: -1.954 ms

Remote clock offset: 1.881 ms

# Below is generated by plot.py at 2019-03-27 08:50:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 24.53 Mbit/s

95th percentile per-packet one-way delay: 28.254 ms

Loss rate: 0.02%

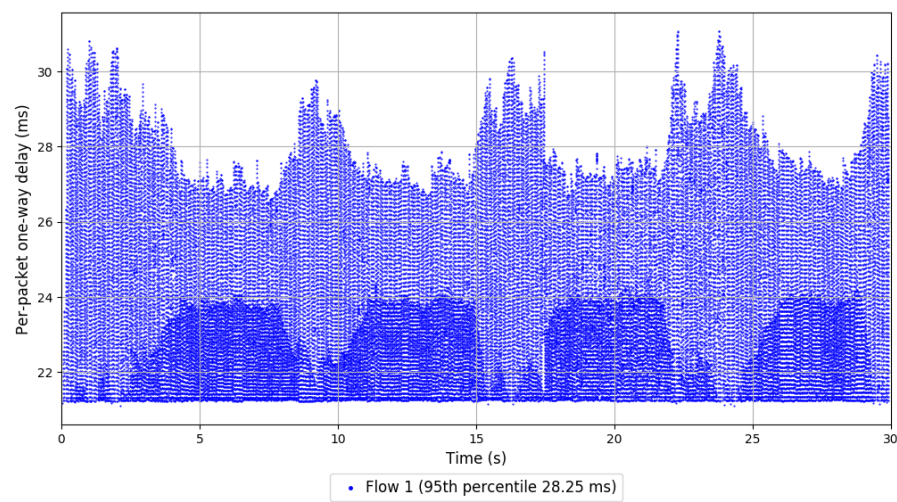
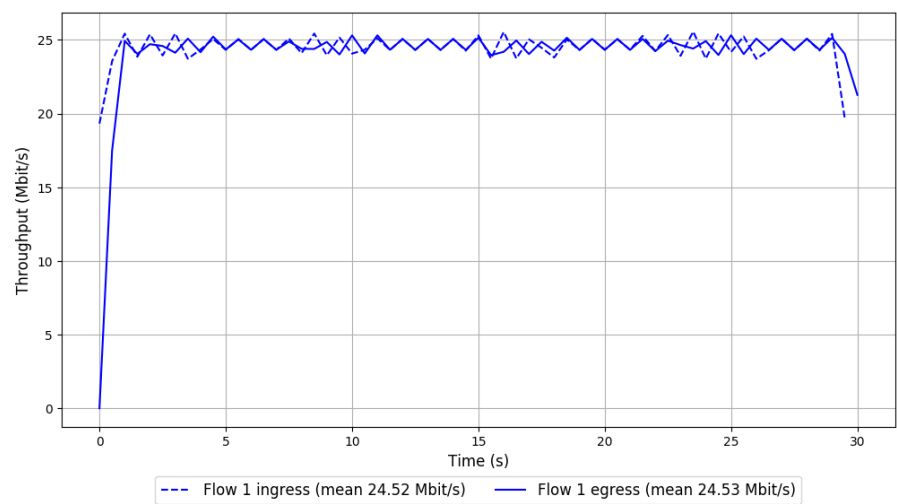
-- Flow 1:

Average throughput: 24.53 Mbit/s

95th percentile per-packet one-way delay: 28.254 ms

Loss rate: 0.02%

Run 5: Report of Sprout — Data Link





Run 1: Statistics of TaoVA-100x

Start at: 2019-03-27 06:51:15

End at: 2019-03-27 06:51:45

Local clock offset: 1.494 ms

Remote clock offset: 1.528 ms

# Below is generated by plot.py at 2019-03-27 08:51:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.59 Mbit/s

95th percentile per-packet one-way delay: 21.951 ms

Loss rate: 0.10%

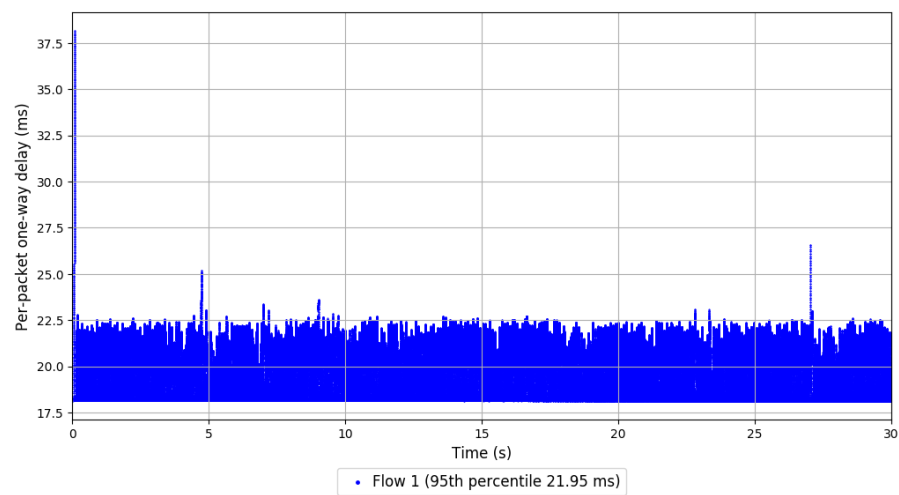
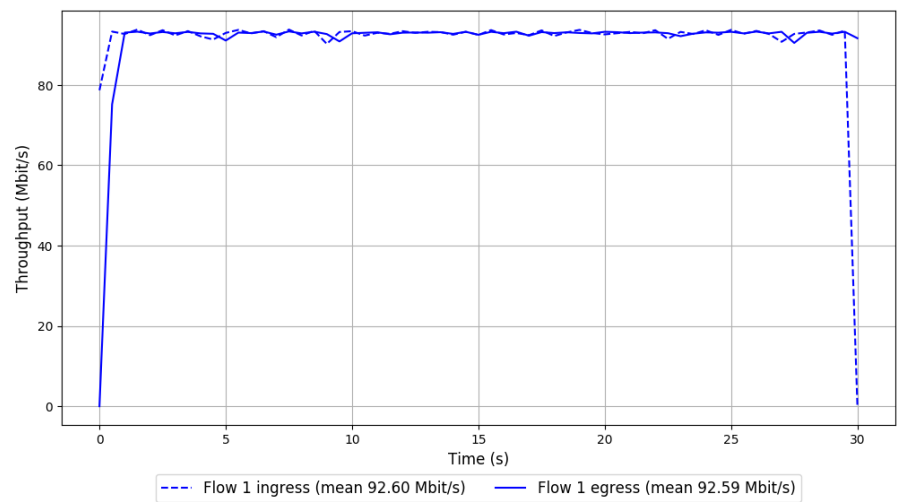
-- Flow 1:

Average throughput: 92.59 Mbit/s

95th percentile per-packet one-way delay: 21.951 ms

Loss rate: 0.10%

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

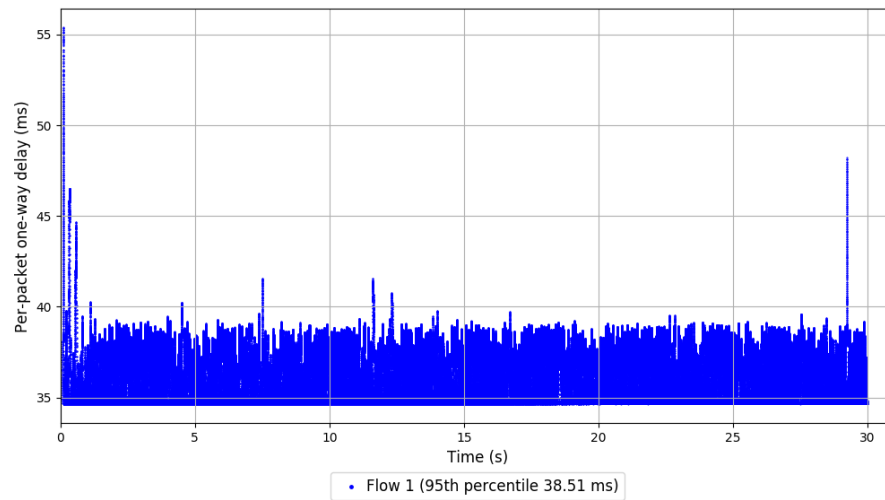
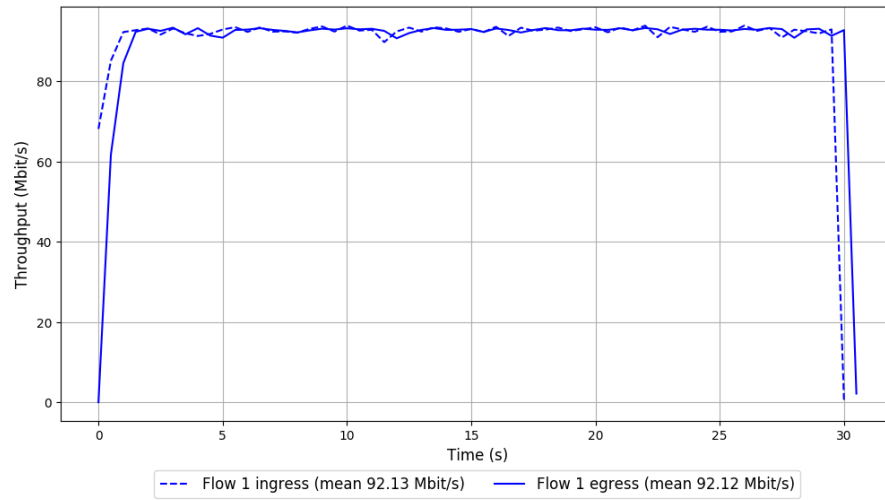


Run 2: Statistics of TaoVA-100x

Start at: 2019-03-27 07:17:50  
End at: 2019-03-27 07:18:20  
Local clock offset: 0.931 ms  
Remote clock offset: -17.571 ms

# Below is generated by plot.py at 2019-03-27 08:51:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.12 Mbit/s  
95th percentile per-packet one-way delay: 38.514 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 92.12 Mbit/s  
95th percentile per-packet one-way delay: 38.514 ms  
Loss rate: 0.10%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-03-27 07:42:32

End at: 2019-03-27 07:43:02

Local clock offset: 1.039 ms

Remote clock offset: 0.965 ms

# Below is generated by plot.py at 2019-03-27 08:51:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.45 Mbit/s

95th percentile per-packet one-way delay: 21.410 ms

Loss rate: 0.09%

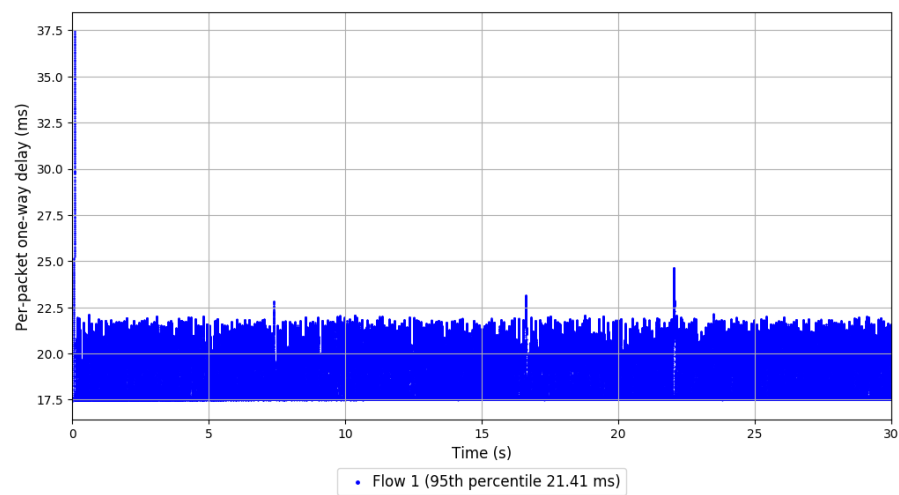
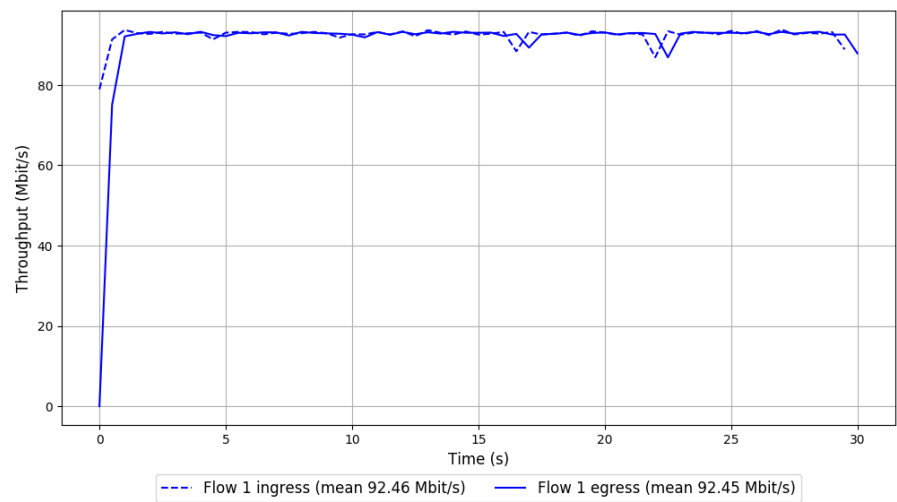
-- Flow 1:

Average throughput: 92.45 Mbit/s

95th percentile per-packet one-way delay: 21.410 ms

Loss rate: 0.09%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-03-27 08:07:03

End at: 2019-03-27 08:07:33

Local clock offset: -1.09 ms

Remote clock offset: 1.815 ms

# Below is generated by plot.py at 2019-03-27 08:51:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.44 Mbit/s

95th percentile per-packet one-way delay: 21.957 ms

Loss rate: 0.10%

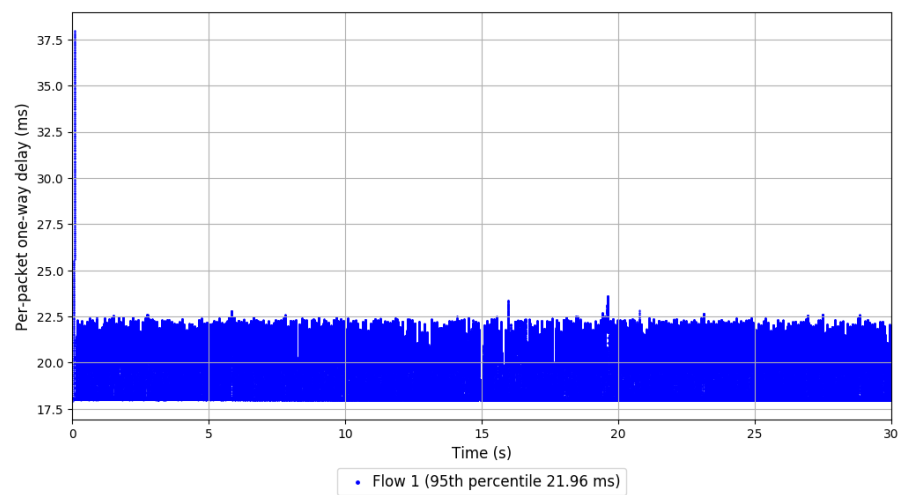
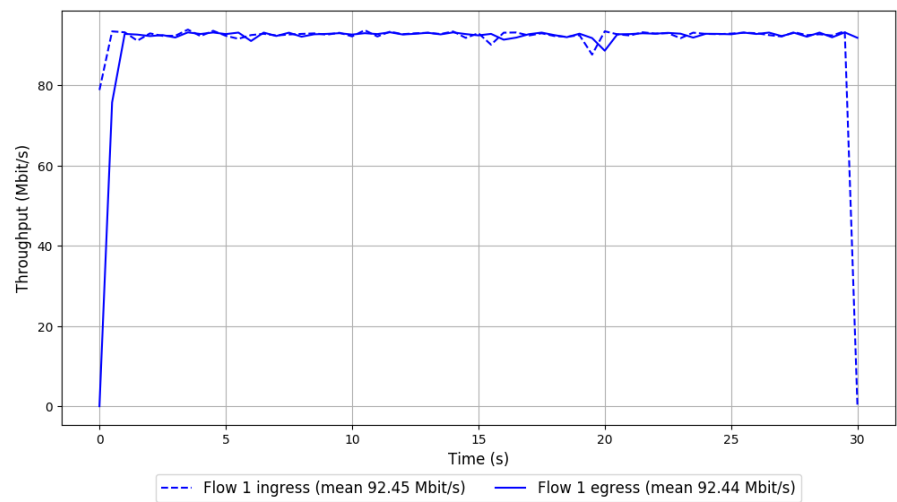
-- Flow 1:

Average throughput: 92.44 Mbit/s

95th percentile per-packet one-way delay: 21.957 ms

Loss rate: 0.10%

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





Run 5: Statistics of TaoVA-100x

Start at: 2019-03-27 08:31:59

End at: 2019-03-27 08:32:29

Local clock offset: -1.502 ms

Remote clock offset: 1.413 ms

# Below is generated by plot.py at 2019-03-27 08:51:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.40 Mbit/s

95th percentile per-packet one-way delay: 23.320 ms

Loss rate: 0.09%

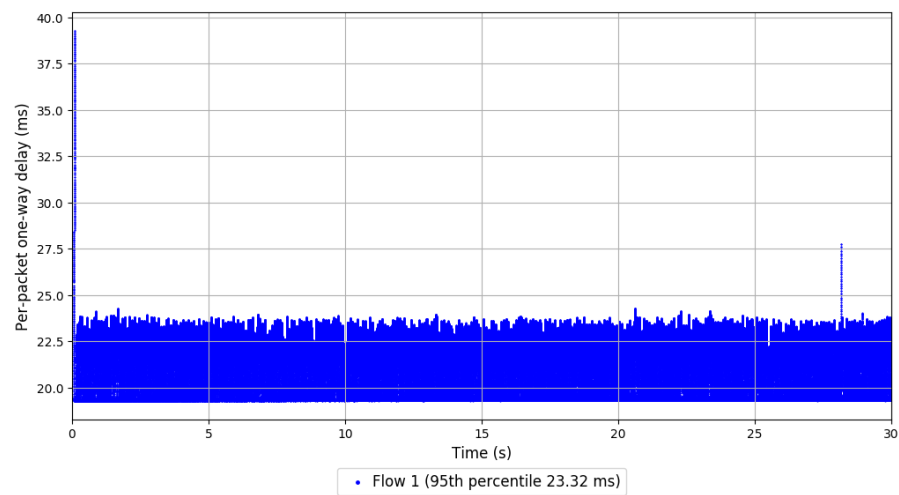
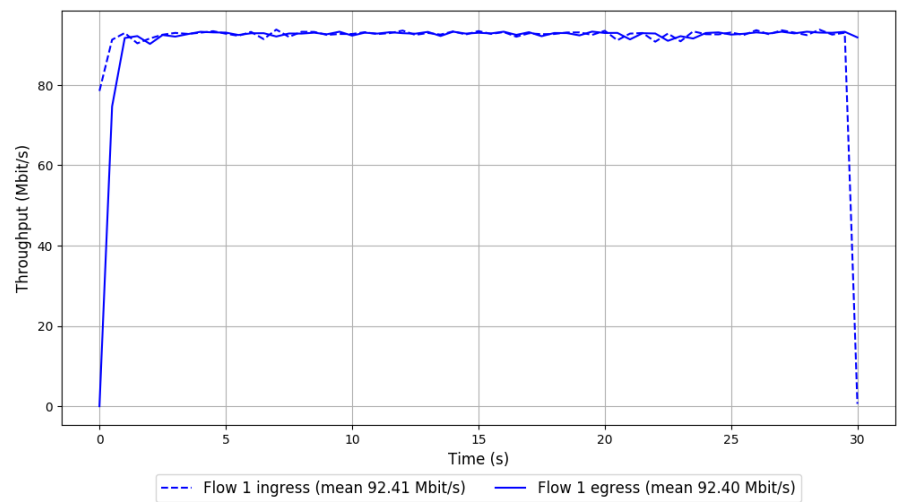
-- Flow 1:

Average throughput: 92.40 Mbit/s

95th percentile per-packet one-way delay: 23.320 ms

Loss rate: 0.09%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-03-27 06:37:03

End at: 2019-03-27 06:37:33

Local clock offset: -0.6 ms

Remote clock offset: 0.614 ms

# Below is generated by plot.py at 2019-03-27 08:51:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.16 Mbit/s

95th percentile per-packet one-way delay: 19.741 ms

Loss rate: 0.09%

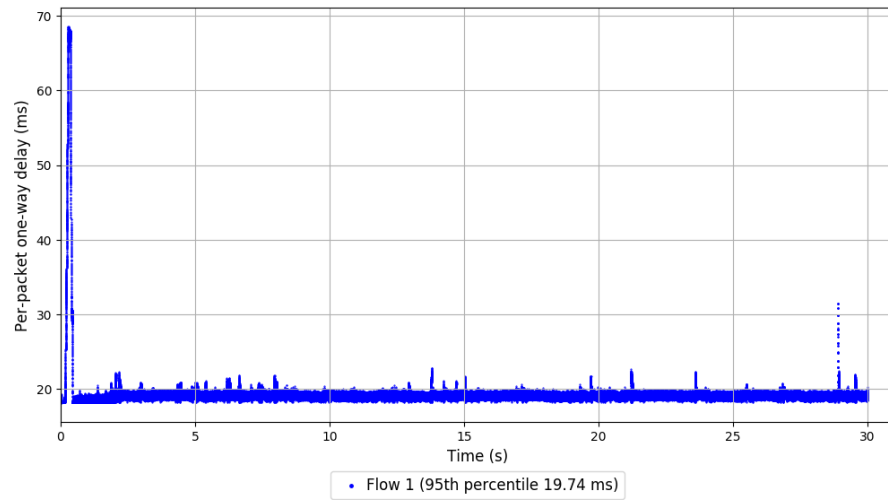
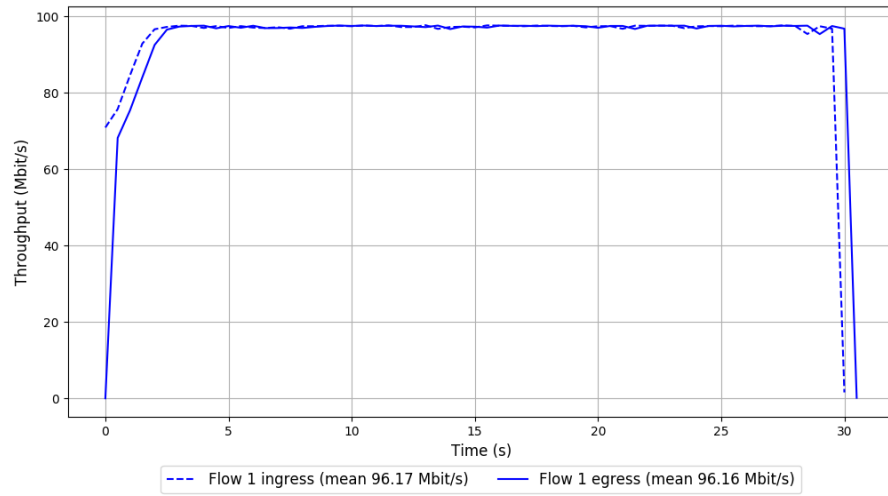
-- Flow 1:

Average throughput: 96.16 Mbit/s

95th percentile per-packet one-way delay: 19.741 ms

Loss rate: 0.09%

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



Run 2: Statistics of TCP Vegas

Start at: 2019-03-27 07:03:12

End at: 2019-03-27 07:03:42

Local clock offset: 1.259 ms

Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2019-03-27 08:51:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.02 Mbit/s

95th percentile per-packet one-way delay: 20.498 ms

Loss rate: 0.09%

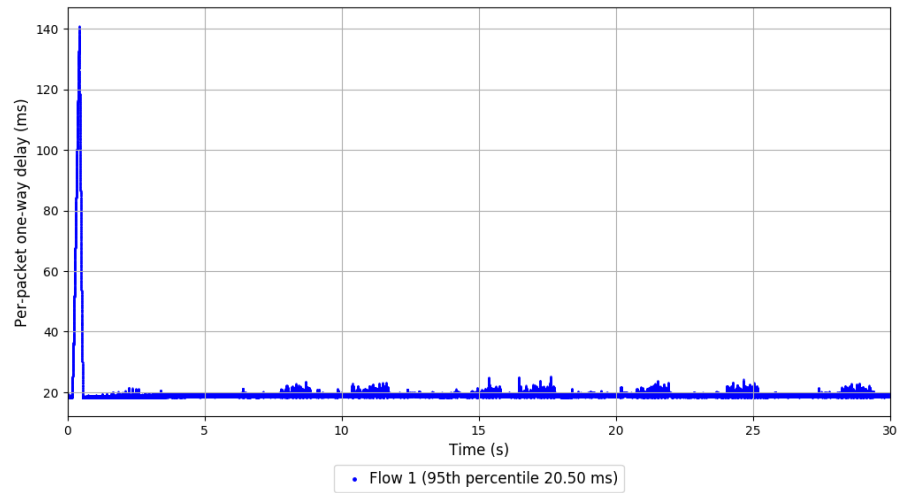
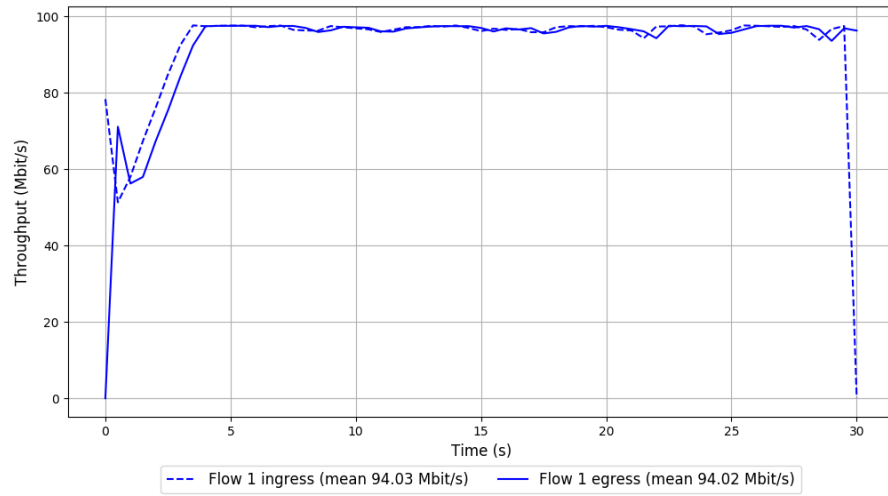
-- Flow 1:

Average throughput: 94.02 Mbit/s

95th percentile per-packet one-way delay: 20.498 ms

Loss rate: 0.09%

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

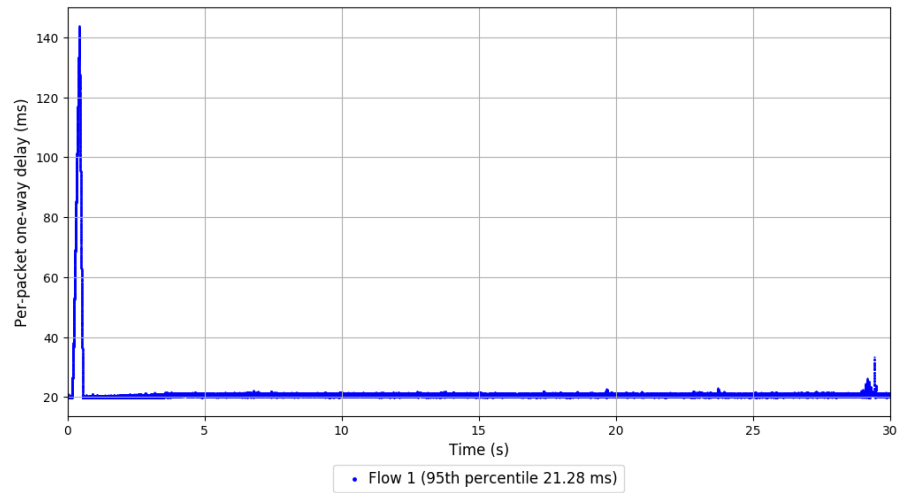
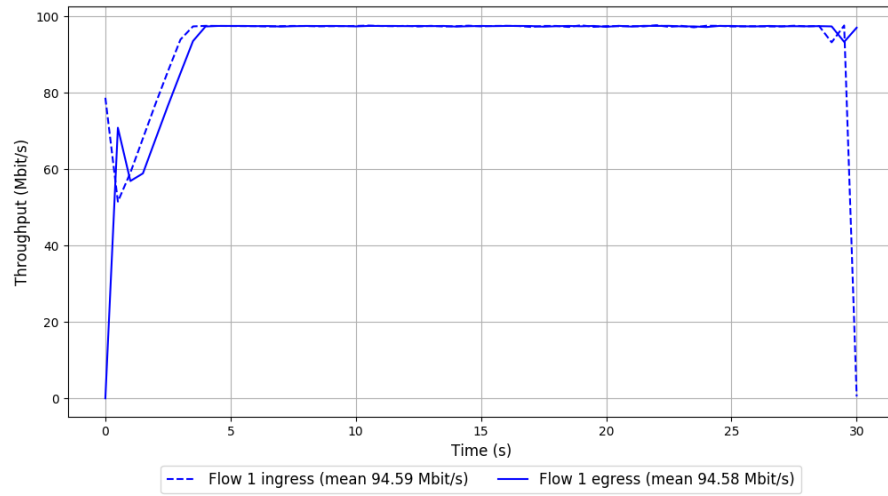


Run 3: Statistics of TCP Vegas

Start at: 2019-03-27 07:29:31  
End at: 2019-03-27 07:30:01  
Local clock offset: 2.224 ms  
Remote clock offset: -0.711 ms

# Below is generated by plot.py at 2019-03-27 08:51:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.58 Mbit/s  
95th percentile per-packet one-way delay: 21.282 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 94.58 Mbit/s  
95th percentile per-packet one-way delay: 21.282 ms  
Loss rate: 0.09%

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





Run 4: Statistics of TCP Vegas

Start at: 2019-03-27 07:54:06

End at: 2019-03-27 07:54:36

Local clock offset: -0.181 ms

Remote clock offset: 1.046 ms

# Below is generated by plot.py at 2019-03-27 08:51:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.37 Mbit/s

95th percentile per-packet one-way delay: 19.987 ms

Loss rate: 0.20%

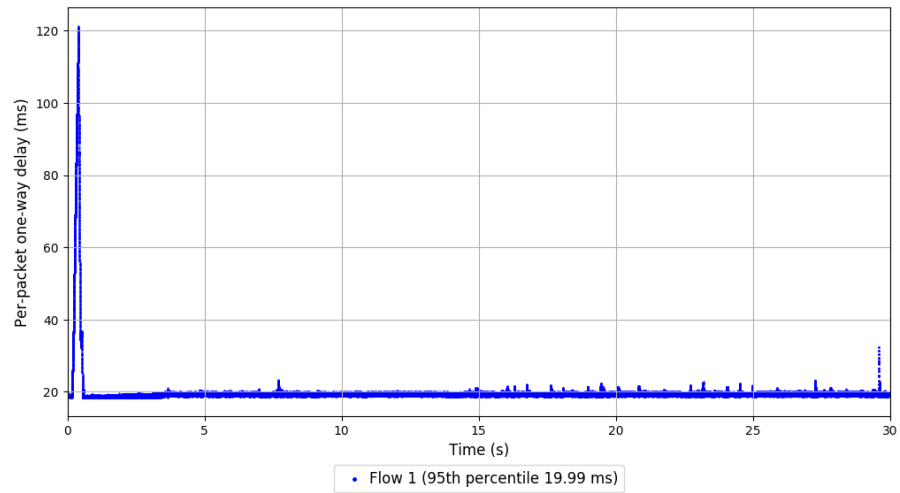
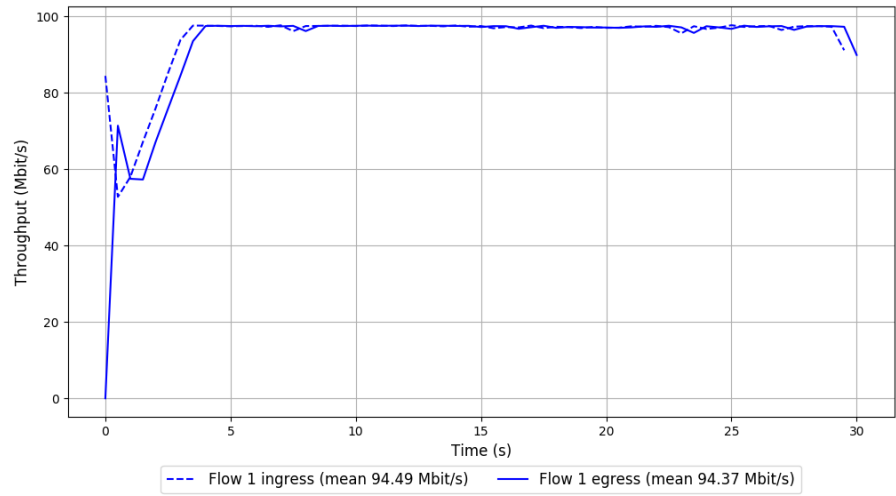
-- Flow 1:

Average throughput: 94.37 Mbit/s

95th percentile per-packet one-way delay: 19.987 ms

Loss rate: 0.20%

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



Run 5: Statistics of TCP Vegas

Start at: 2019-03-27 08:18:41

End at: 2019-03-27 08:19:11

Local clock offset: -1.969 ms

Remote clock offset: 1.148 ms

# Below is generated by plot.py at 2019-03-27 08:52:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.91 Mbit/s

95th percentile per-packet one-way delay: 20.119 ms

Loss rate: 0.09%

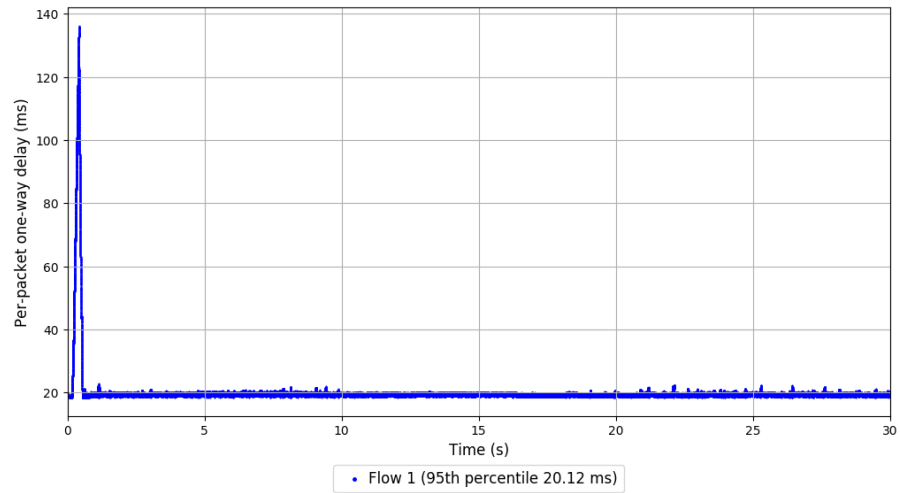
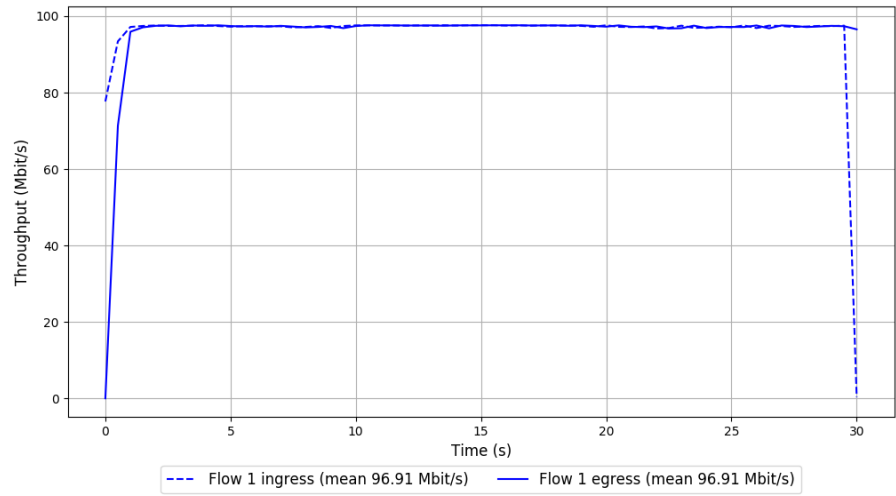
-- Flow 1:

Average throughput: 96.91 Mbit/s

95th percentile per-packet one-way delay: 20.119 ms

Loss rate: 0.09%

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

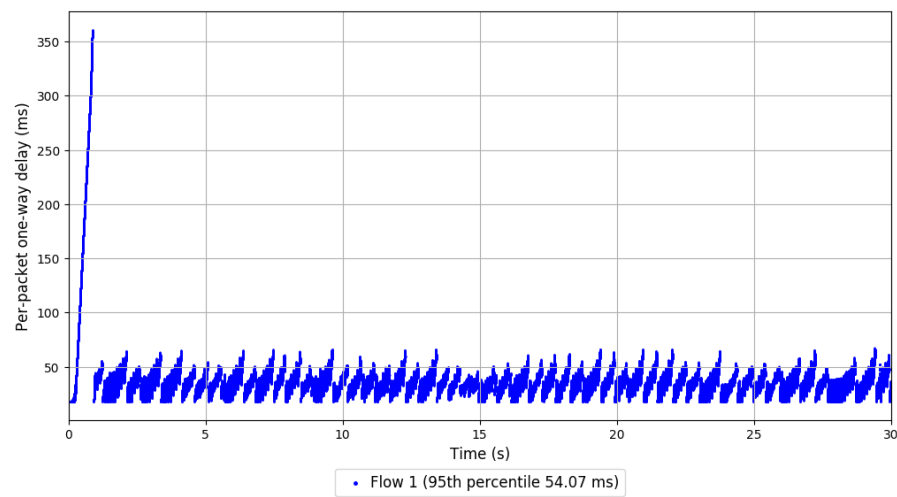
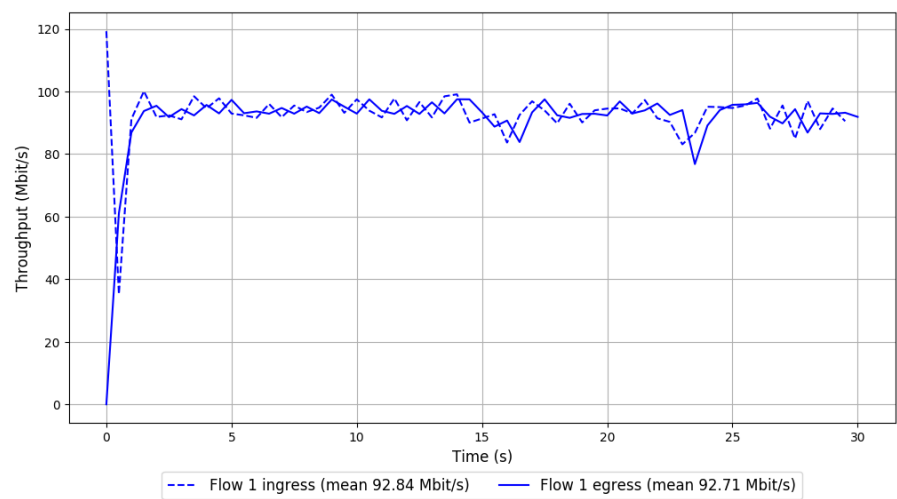


Run 1: Statistics of Verus

Start at: 2019-03-27 06:48:44  
End at: 2019-03-27 06:49:14  
Local clock offset: -1.079 ms  
Remote clock offset: -0.522 ms

# Below is generated by plot.py at 2019-03-27 08:52:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.71 Mbit/s  
95th percentile per-packet one-way delay: 54.073 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 92.71 Mbit/s  
95th percentile per-packet one-way delay: 54.073 ms  
Loss rate: 0.21%

Run 1: Report of Verus — Data Link

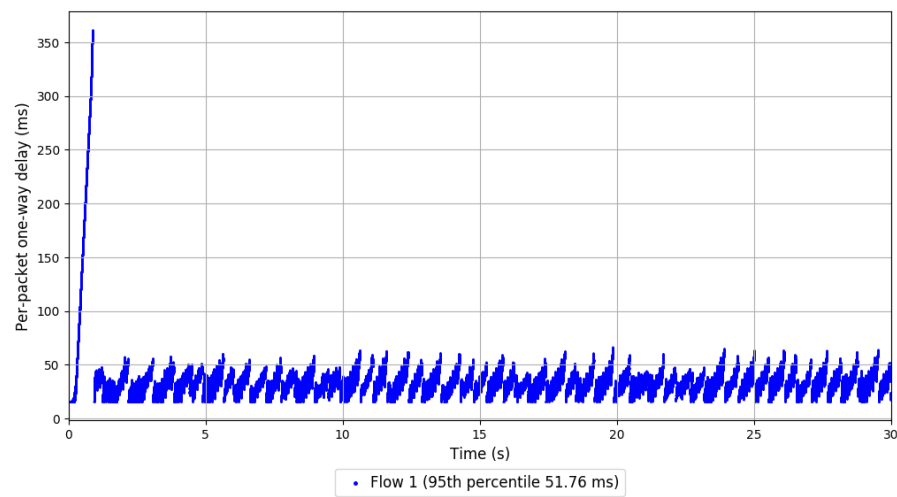
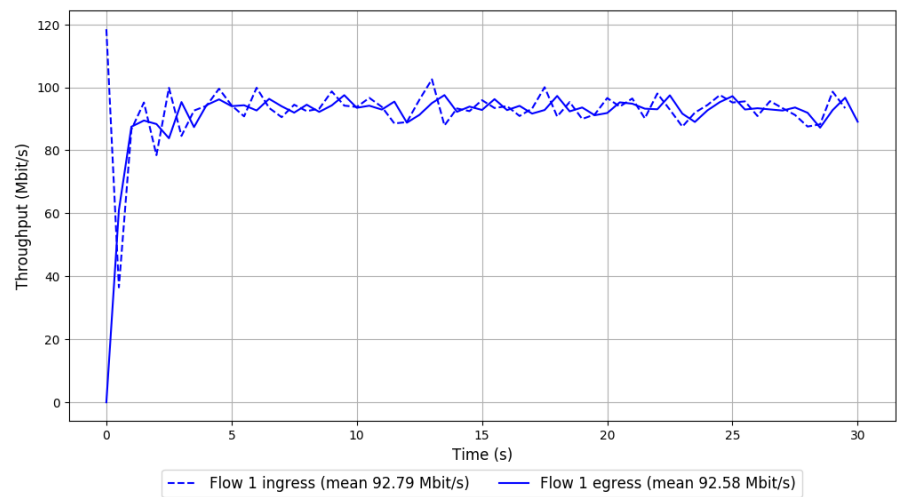


Run 2: Statistics of Verus

Start at: 2019-03-27 07:14:54  
End at: 2019-03-27 07:15:24  
Local clock offset: -0.94 ms  
Remote clock offset: -0.581 ms

# Below is generated by plot.py at 2019-03-27 08:52:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.58 Mbit/s  
95th percentile per-packet one-way delay: 51.763 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 92.58 Mbit/s  
95th percentile per-packet one-way delay: 51.763 ms  
Loss rate: 0.30%

Run 2: Report of Verus — Data Link





Run 3: Statistics of Verus

Start at: 2019-03-27 07:40:04

End at: 2019-03-27 07:40:34

Local clock offset: -1.099 ms

Remote clock offset: -0.96 ms

# Below is generated by plot.py at 2019-03-27 08:52:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.05 Mbit/s

95th percentile per-packet one-way delay: 53.441 ms

Loss rate: 0.31%

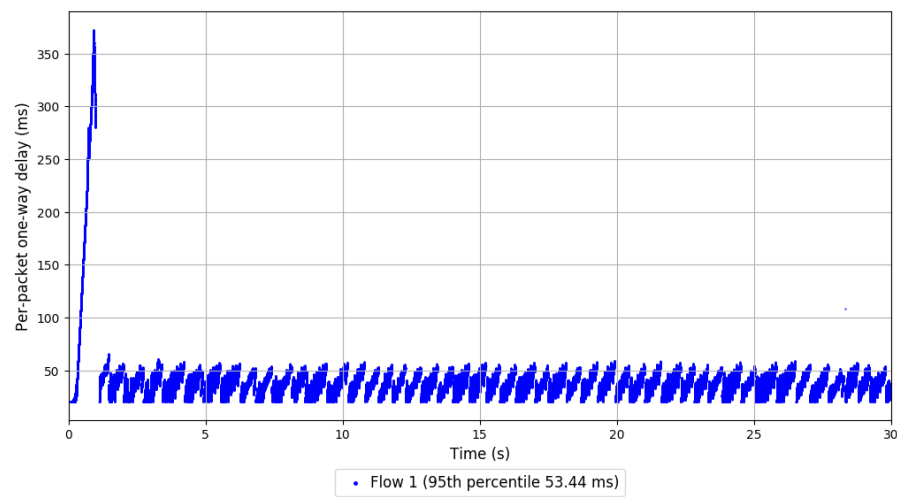
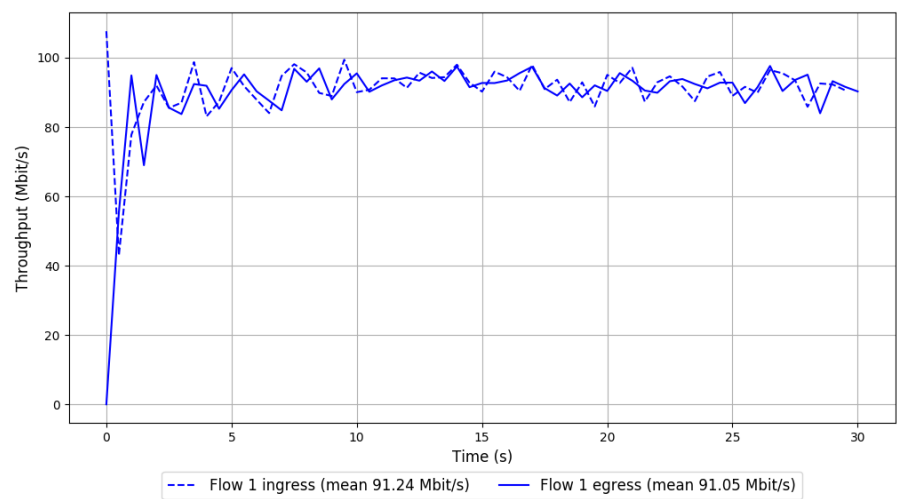
-- Flow 1:

Average throughput: 91.05 Mbit/s

95th percentile per-packet one-way delay: 53.441 ms

Loss rate: 0.31%

Run 3: Report of Verus — Data Link

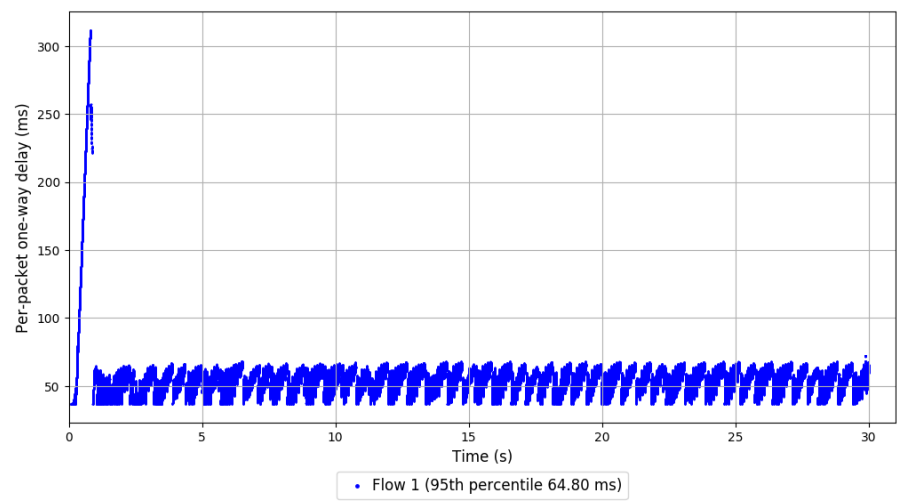
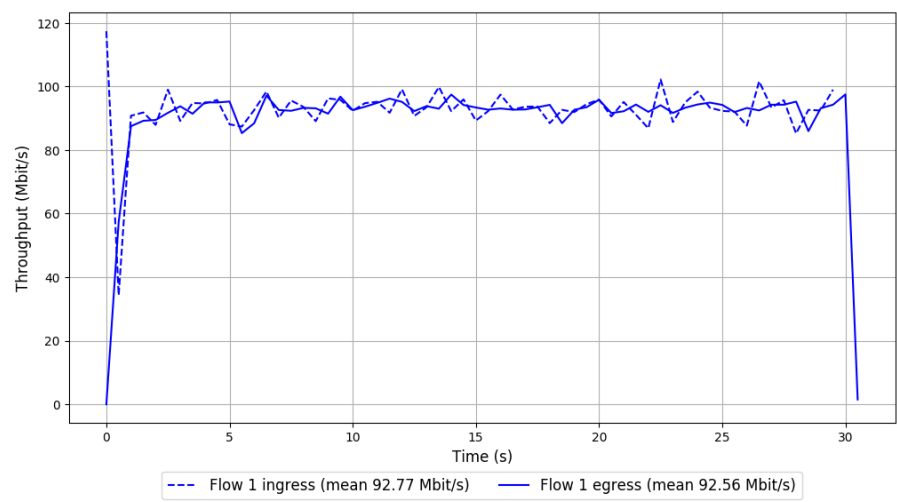


Run 4: Statistics of Verus

Start at: 2019-03-27 08:04:42  
End at: 2019-03-27 08:05:12  
Local clock offset: -0.398 ms  
Remote clock offset: -16.167 ms

# Below is generated by plot.py at 2019-03-27 08:52:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.56 Mbit/s  
95th percentile per-packet one-way delay: 64.799 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 92.56 Mbit/s  
95th percentile per-packet one-way delay: 64.799 ms  
Loss rate: 0.27%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-03-27 08:29:30

End at: 2019-03-27 08:30:00

Local clock offset: -1.79 ms

Remote clock offset: 0.547 ms

# Below is generated by plot.py at 2019-03-27 08:52:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.46 Mbit/s

95th percentile per-packet one-way delay: 55.633 ms

Loss rate: 0.30%

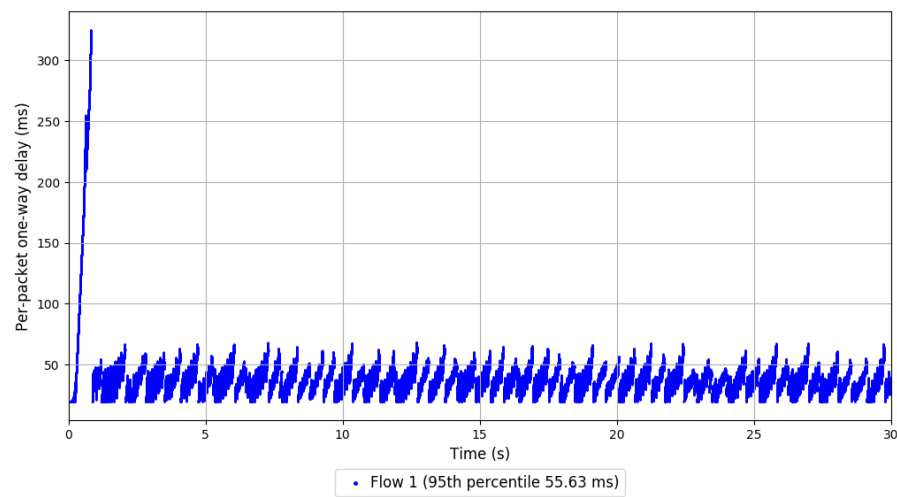
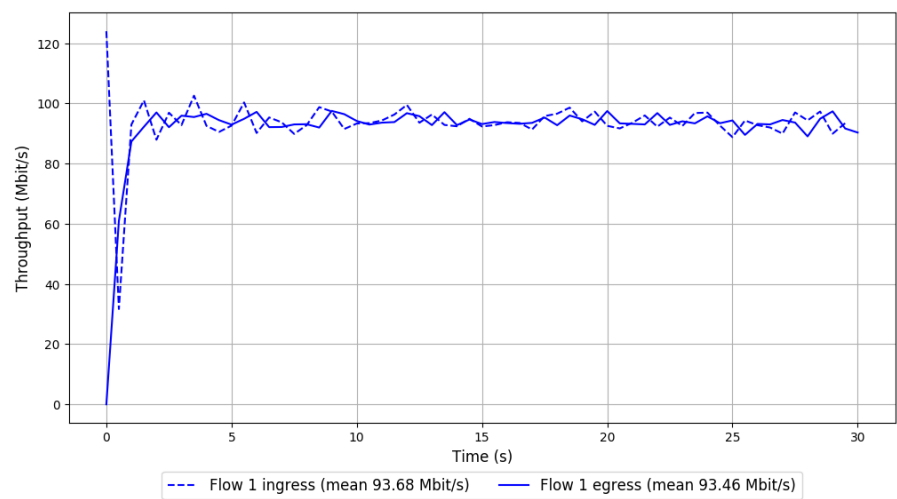
-- Flow 1:

Average throughput: 93.46 Mbit/s

95th percentile per-packet one-way delay: 55.633 ms

Loss rate: 0.30%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-03-27 06:47:25

End at: 2019-03-27 06:47:55

Local clock offset: 0.334 ms

Remote clock offset: 0.843 ms

# Below is generated by plot.py at 2019-03-27 08:52:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.37 Mbit/s

95th percentile per-packet one-way delay: 19.940 ms

Loss rate: 0.10%

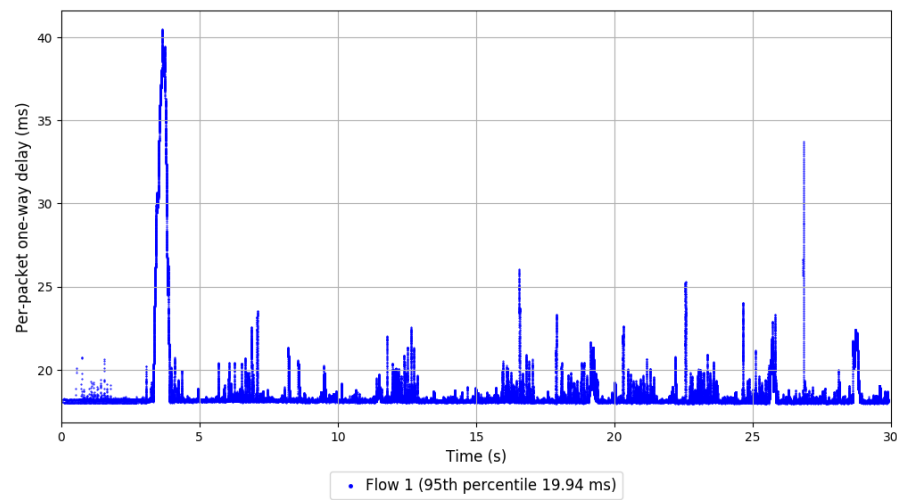
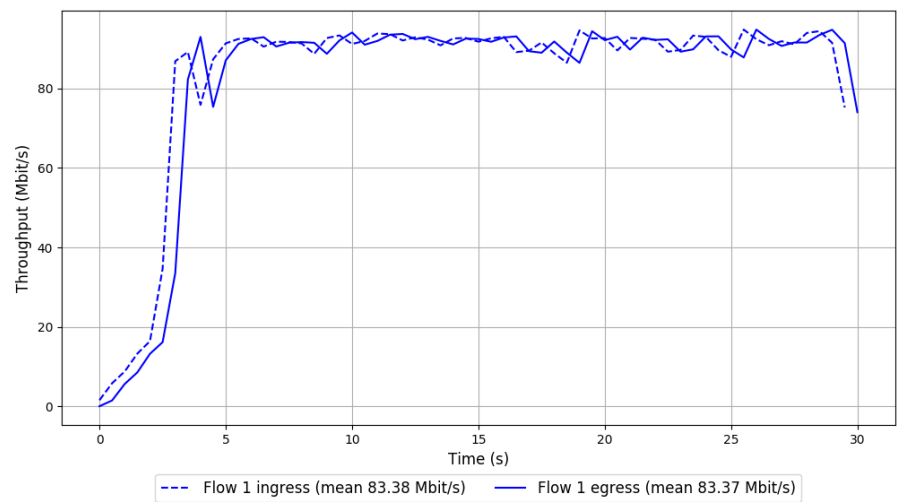
-- Flow 1:

Average throughput: 83.37 Mbit/s

95th percentile per-packet one-way delay: 19.940 ms

Loss rate: 0.10%

Run 1: Report of PCC-Vivace — Data Link



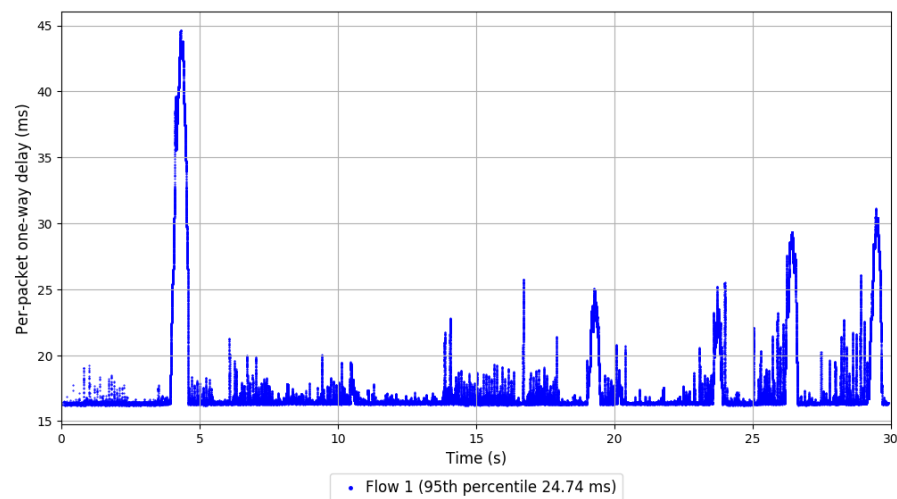
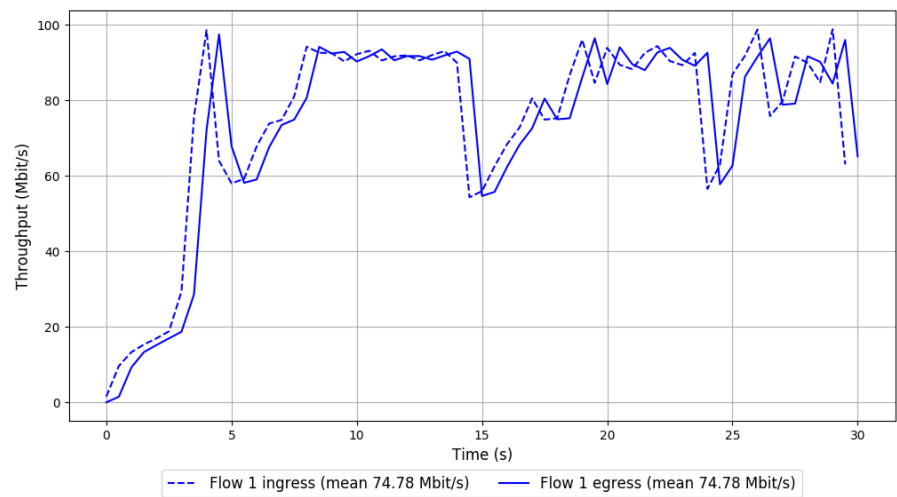


Run 2: Statistics of PCC-Vivace

Start at: 2019-03-27 07:13:25  
End at: 2019-03-27 07:13:55  
Local clock offset: -0.678 ms  
Remote clock offset: -1.273 ms

# Below is generated by plot.py at 2019-03-27 08:52:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 74.78 Mbit/s  
95th percentile per-packet one-way delay: 24.744 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 74.78 Mbit/s  
95th percentile per-packet one-way delay: 24.744 ms  
Loss rate: 0.09%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-03-27 07:38:52

End at: 2019-03-27 07:39:22

Local clock offset: -1.367 ms

Remote clock offset: 0.576 ms

# Below is generated by plot.py at 2019-03-27 08:53:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.99 Mbit/s

95th percentile per-packet one-way delay: 15.965 ms

Loss rate: 0.08%

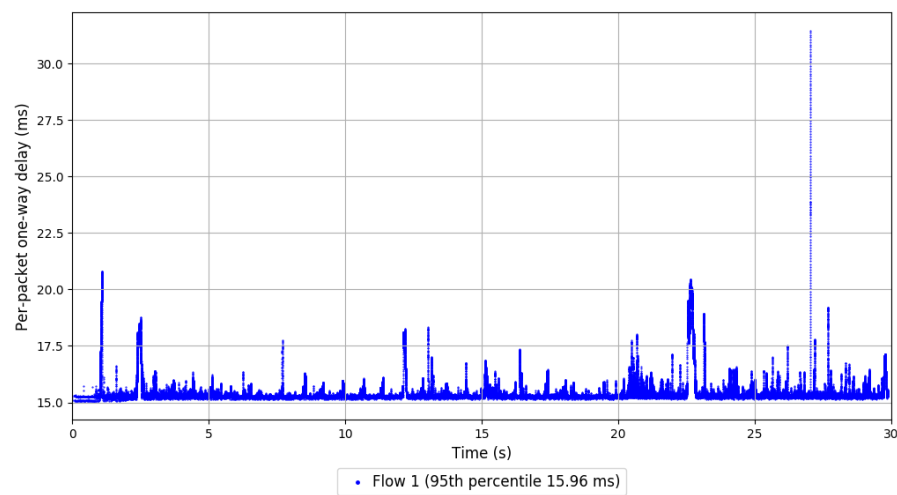
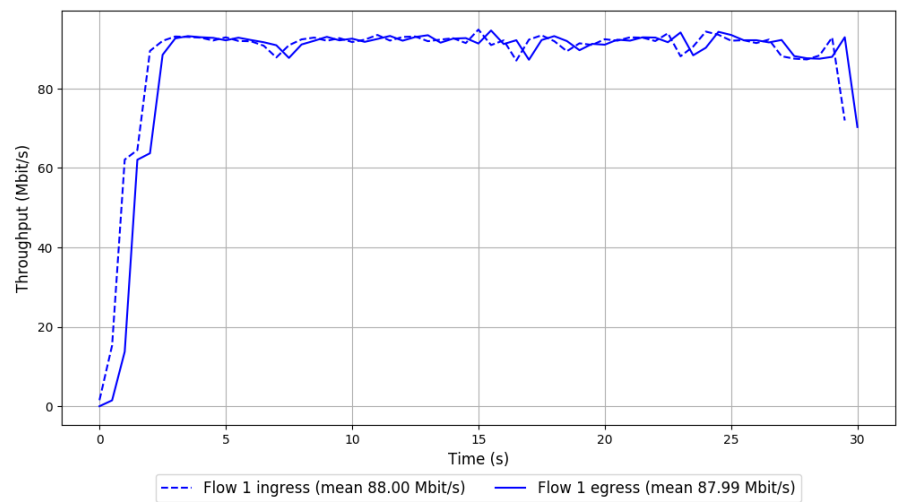
-- Flow 1:

Average throughput: 87.99 Mbit/s

95th percentile per-packet one-way delay: 15.965 ms

Loss rate: 0.08%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-03-27 08:03:29

End at: 2019-03-27 08:03:59

Local clock offset: 0.216 ms

Remote clock offset: 1.389 ms

# Below is generated by plot.py at 2019-03-27 08:53:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.65 Mbit/s

95th percentile per-packet one-way delay: 23.647 ms

Loss rate: 0.10%

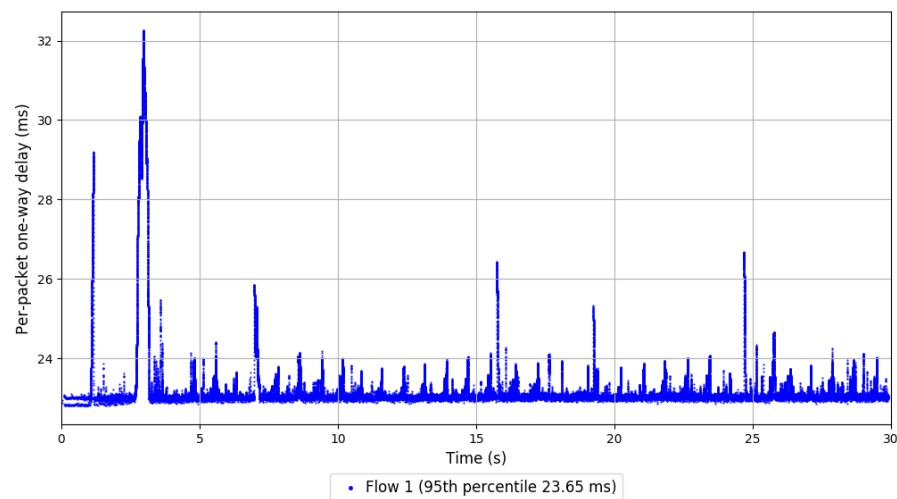
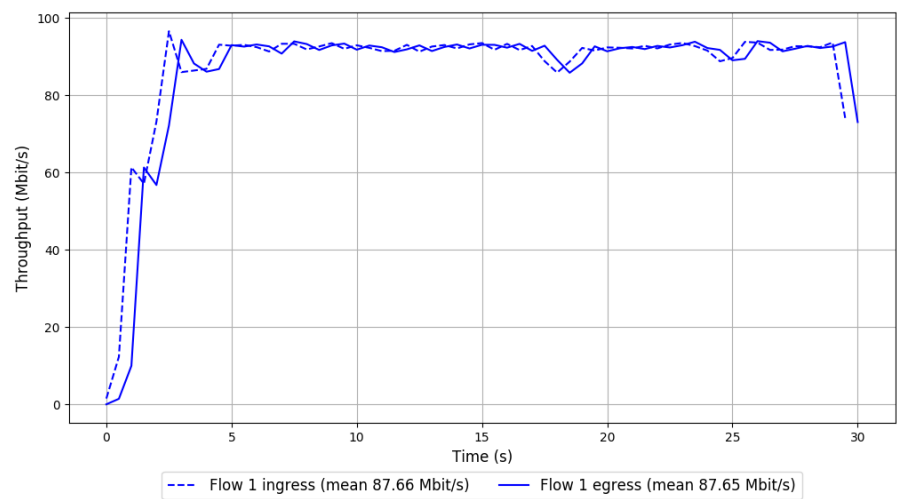
-- Flow 1:

Average throughput: 87.65 Mbit/s

95th percentile per-packet one-way delay: 23.647 ms

Loss rate: 0.10%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-03-27 08:28:19

End at: 2019-03-27 08:28:49

Local clock offset: -1.857 ms

Remote clock offset: 1.463 ms

# Below is generated by plot.py at 2019-03-27 08:53:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.02 Mbit/s

95th percentile per-packet one-way delay: 19.226 ms

Loss rate: 0.10%

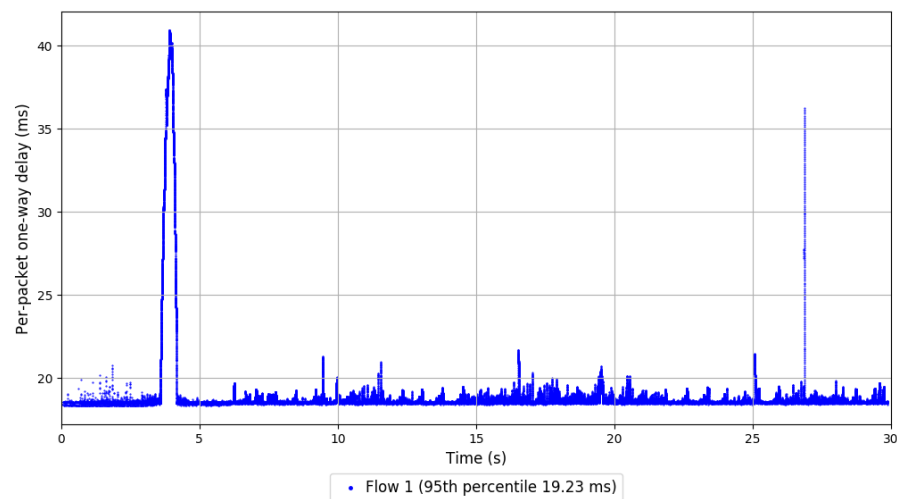
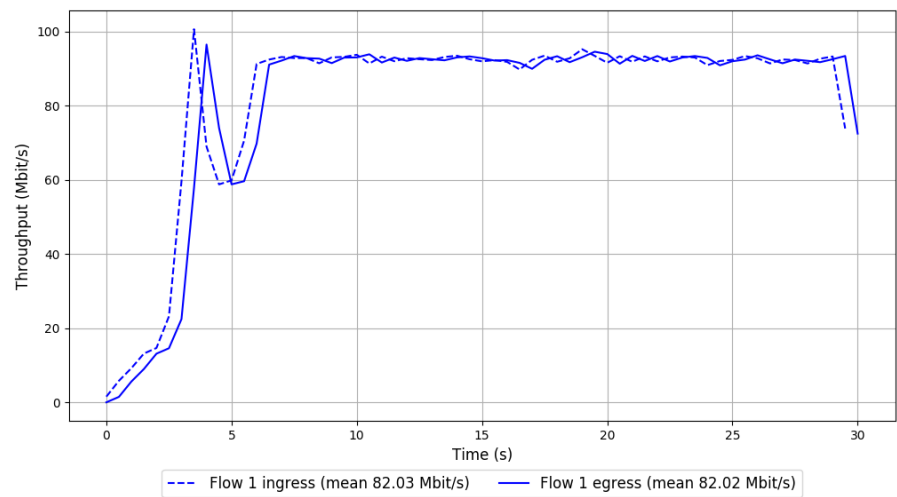
-- Flow 1:

Average throughput: 82.02 Mbit/s

95th percentile per-packet one-way delay: 19.226 ms

Loss rate: 0.10%

Run 5: Report of PCC-Vivace — Data Link





Run 1: Statistics of WebRTC media

Start at: 2019-03-27 06:52:31

End at: 2019-03-27 06:53:01

Local clock offset: -0.268 ms

Remote clock offset: 0.517 ms

# Below is generated by plot.py at 2019-03-27 08:53:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 17.794 ms

Loss rate: 0.11%

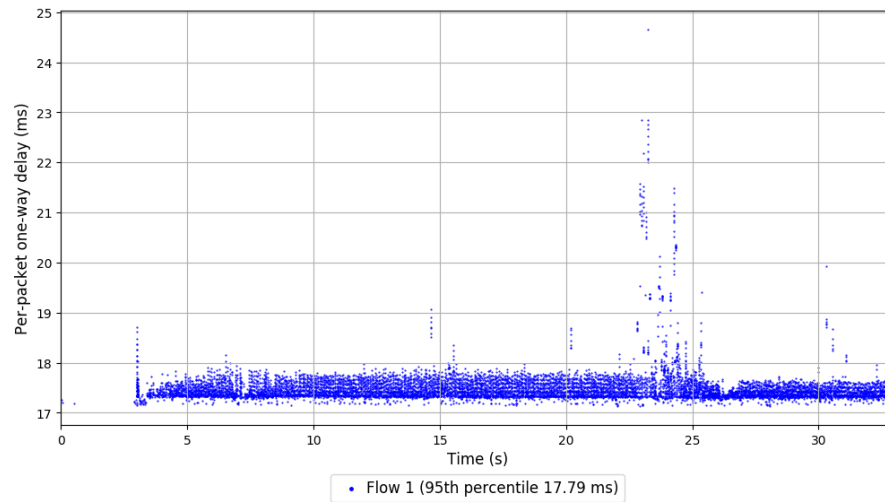
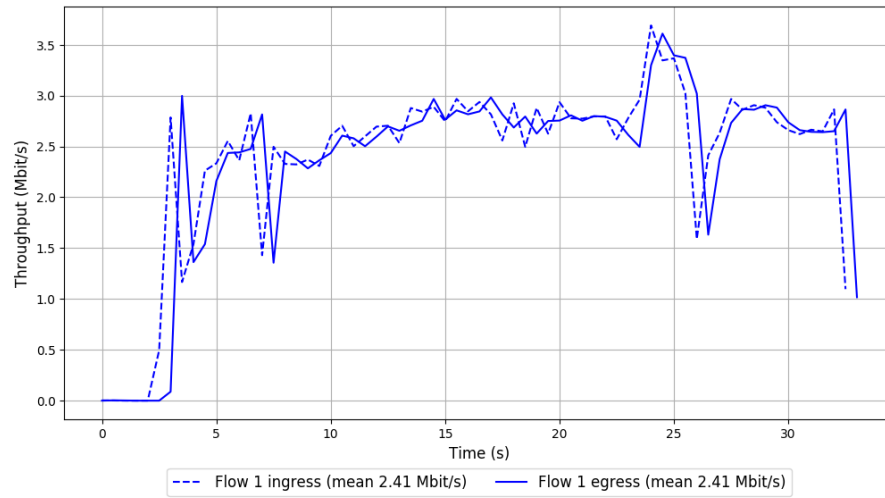
-- Flow 1:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 17.794 ms

Loss rate: 0.11%

### Run 1: Report of WebRTC media — Data Link

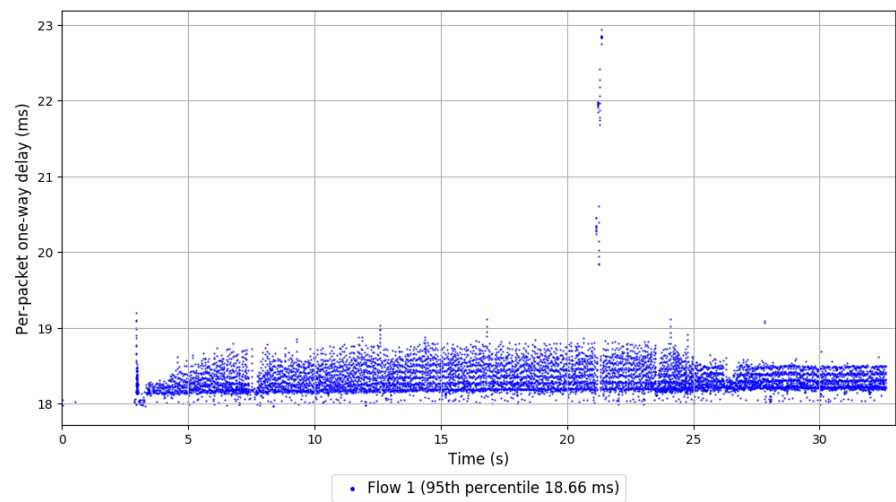
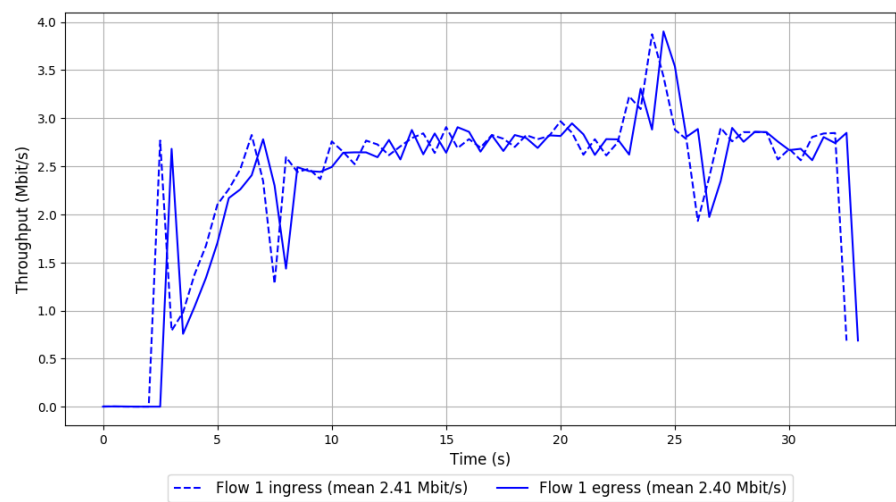


Run 2: Statistics of WebRTC media

Start at: 2019-03-27 07:19:09  
End at: 2019-03-27 07:19:39  
Local clock offset: 0.375 ms  
Remote clock offset: -1.588 ms

# Below is generated by plot.py at 2019-03-27 08:53:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.40 Mbit/s  
95th percentile per-packet one-way delay: 18.659 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 2.40 Mbit/s  
95th percentile per-packet one-way delay: 18.659 ms  
Loss rate: 0.12%

Run 2: Report of WebRTC media — Data Link

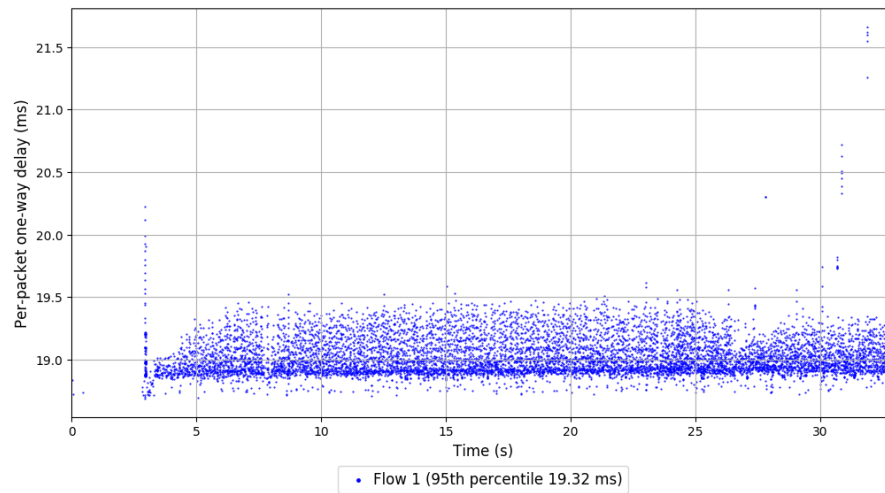
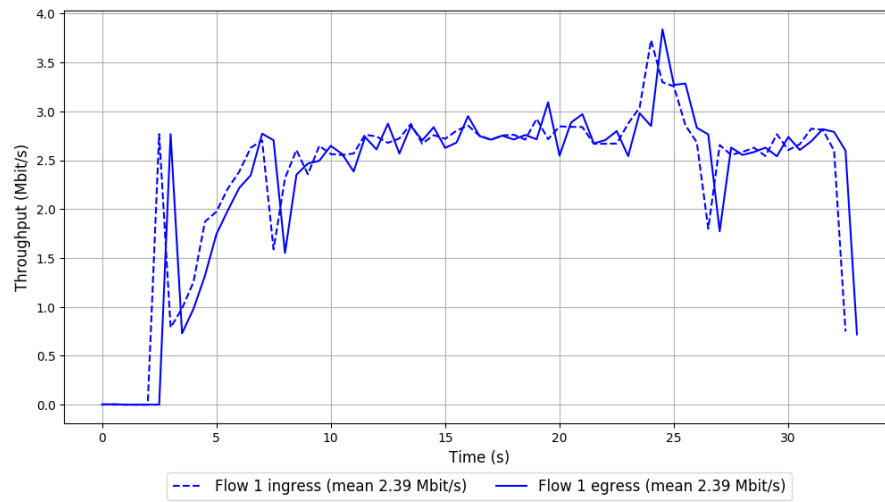


Run 3: Statistics of WebRTC media

Start at: 2019-03-27 07:43:47  
End at: 2019-03-27 07:44:17  
Local clock offset: 1.224 ms  
Remote clock offset: -0.151 ms

# Below is generated by plot.py at 2019-03-27 08:53:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.39 Mbit/s  
95th percentile per-packet one-way delay: 19.325 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 2.39 Mbit/s  
95th percentile per-packet one-way delay: 19.325 ms  
Loss rate: 0.10%

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



Run 4: Statistics of WebRTC media

Start at: 2019-03-27 08:08:16

End at: 2019-03-27 08:08:46

Local clock offset: -1.322 ms

Remote clock offset: 0.921 ms

# Below is generated by plot.py at 2019-03-27 08:53:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 19.243 ms

Loss rate: 0.12%

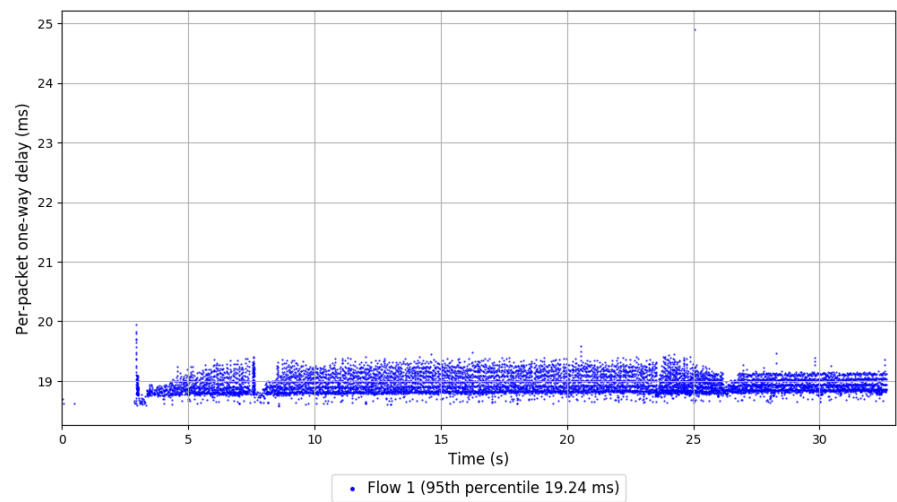
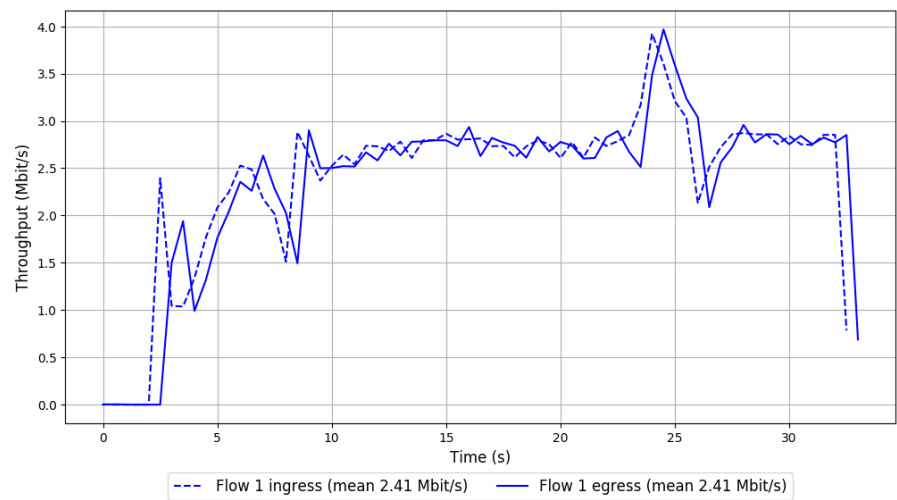
-- Flow 1:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 19.243 ms

Loss rate: 0.12%

Run 4: Report of WebRTC media — Data Link





Run 5: Statistics of WebRTC media

Start at: 2019-03-27 08:33:12

End at: 2019-03-27 08:33:42

Local clock offset: -2.204 ms

Remote clock offset: 1.841 ms

# Below is generated by plot.py at 2019-03-27 08:53:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 21.813 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 21.813 ms

Loss rate: 0.07%

Run 5: Report of WebRTC media — Data Link

