

## Pantheon Report

Generated at 2019-02-12 00:51:27 (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 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-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	95.59	40.99	1.40
Copa	5	84.05	23.99	0.09
TCP Cubic	5	94.83	24.82	0.10
FillP	5	96.08	33.01	0.14
FillP-Sheep	5	94.23	22.56	0.09
Indigo	5	96.55	18.72	0.09
Indigo-MusesC3	5	96.24	20.92	0.10
Indigo-MusesC5	5	91.93	18.23	0.09
Indigo-MusesD	5	86.89	20.53	0.09
Indigo-MusesT	5	96.30	20.42	0.09
LEDBAT	5	85.42	24.83	0.09
PCC-Allegro	5	92.39	19.35	0.10
PCC-Expr	5	87.00	163.71	1.77
QUIC Cubic	5	90.57	24.50	0.13
SCReAM	5	0.21	18.03	0.10
Sprout	5	24.53	23.56	0.10
TaoVA-100x	5	92.06	19.65	0.08
TCP Vegas	5	95.35	19.51	0.09
Verus	5	91.26	50.35	0.28
PCC-Vivace	5	88.24	18.17	0.09
WebRTC media	5	2.40	18.64	0.08



Run 1: Statistics of TCP BBR

Start at: 2019-02-11 22:33:22

End at: 2019-02-11 22:33:52

Local clock offset: -1.491 ms

Remote clock offset: -2.716 ms

# Below is generated by plot.py at 2019-02-12 00:38:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.58 Mbit/s

95th percentile per-packet one-way delay: 40.796 ms

Loss rate: 1.43%

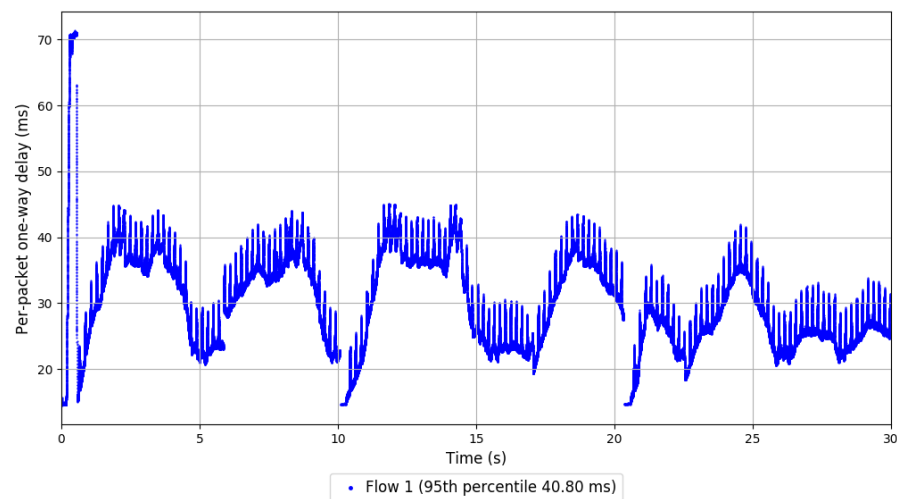
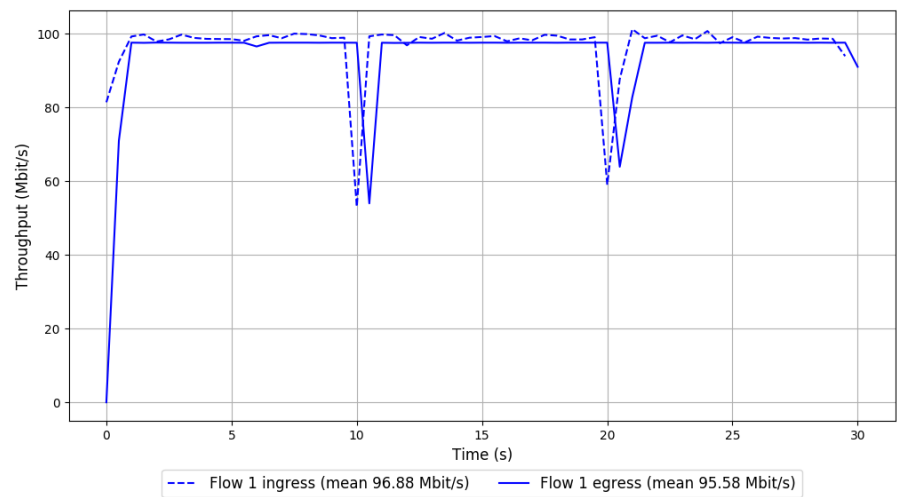
-- Flow 1:

Average throughput: 95.58 Mbit/s

95th percentile per-packet one-way delay: 40.796 ms

Loss rate: 1.43%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-02-11 22:58:22

End at: 2019-02-11 22:58:52

Local clock offset: 4.914 ms

Remote clock offset: -5.217 ms

# Below is generated by plot.py at 2019-02-12 00:38:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.56 Mbit/s

95th percentile per-packet one-way delay: 37.949 ms

Loss rate: 1.27%

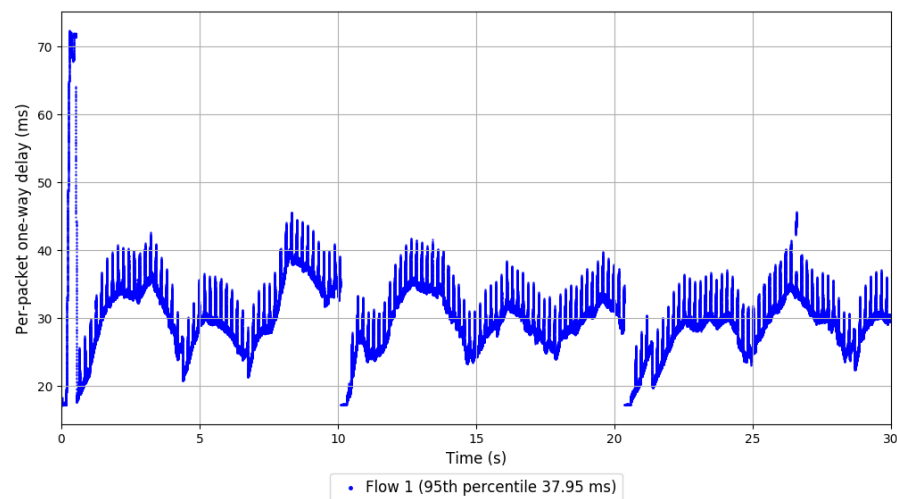
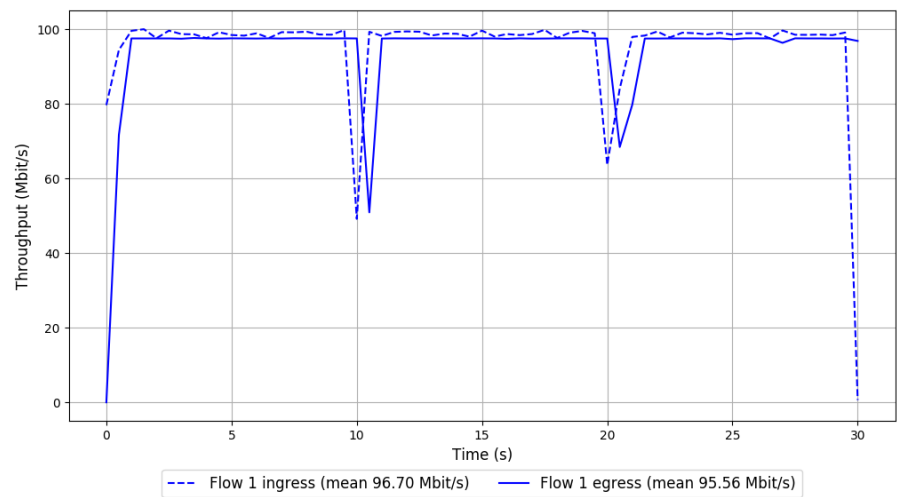
-- Flow 1:

Average throughput: 95.56 Mbit/s

95th percentile per-packet one-way delay: 37.949 ms

Loss rate: 1.27%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-02-11 23:23:14

End at: 2019-02-11 23:23:44

Local clock offset: 4.207 ms

Remote clock offset: -6.73 ms

# Below is generated by plot.py at 2019-02-12 00:38:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.60 Mbit/s

95th percentile per-packet one-way delay: 40.322 ms

Loss rate: 1.39%

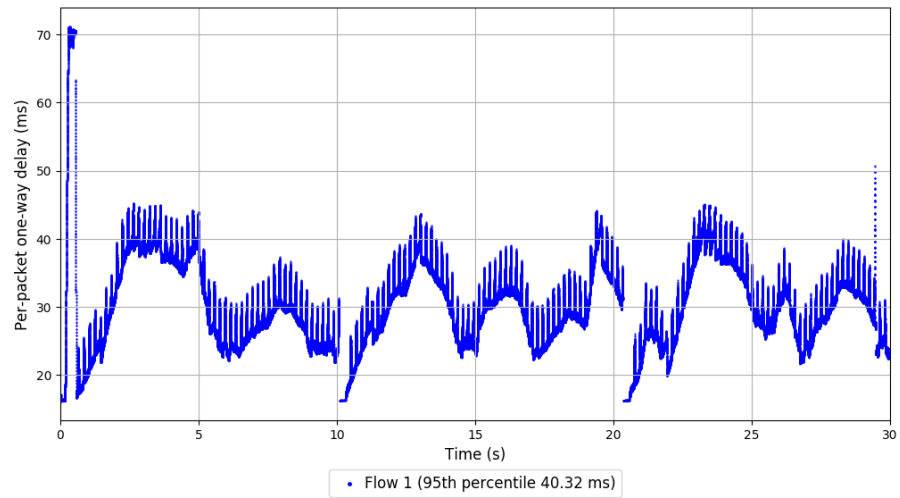
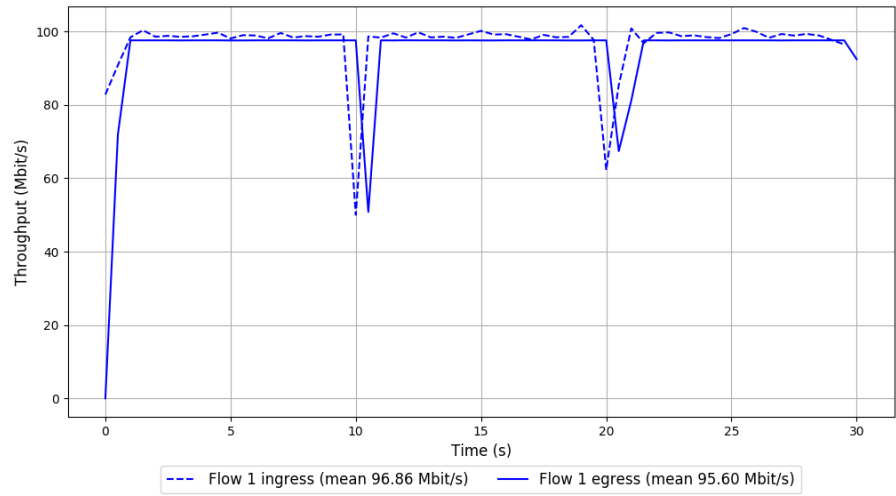
-- Flow 1:

Average throughput: 95.60 Mbit/s

95th percentile per-packet one-way delay: 40.322 ms

Loss rate: 1.39%

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

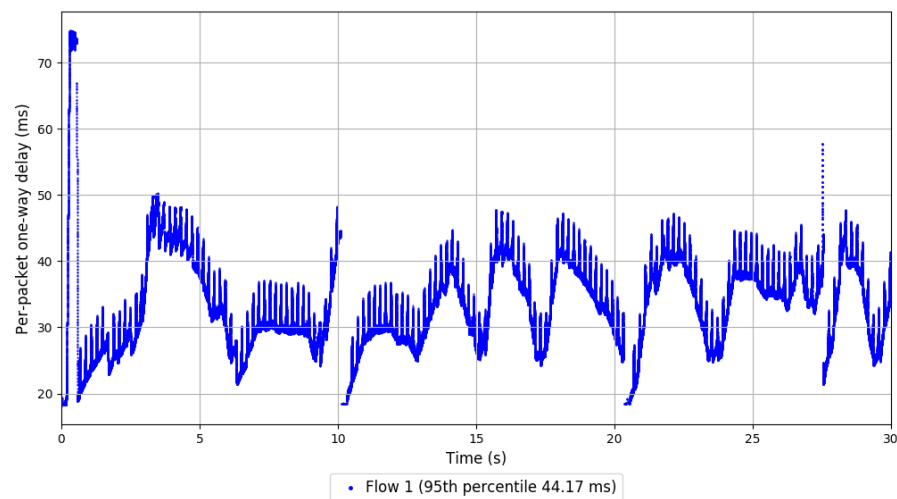
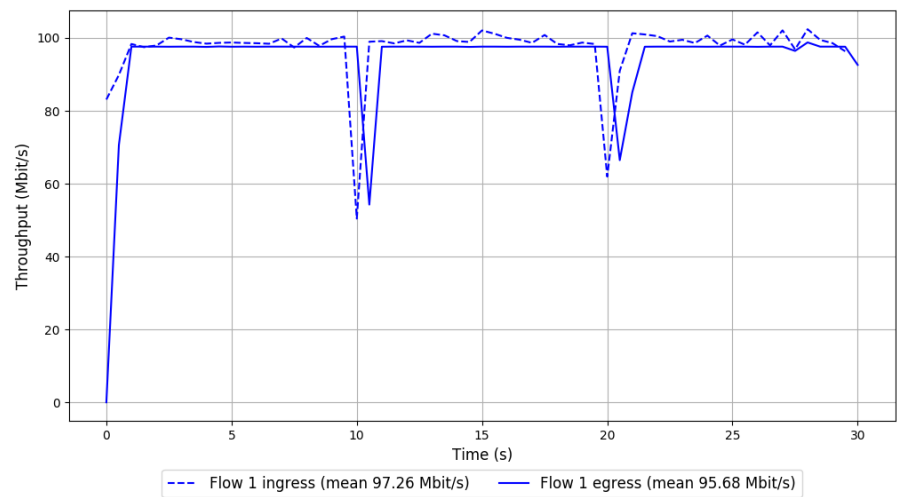


Run 4: Statistics of TCP BBR

Start at: 2019-02-11 23:48:17  
End at: 2019-02-11 23:48:47  
Local clock offset: 2.877 ms  
Remote clock offset: -6.073 ms

# Below is generated by plot.py at 2019-02-12 00:38:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.68 Mbit/s  
95th percentile per-packet one-way delay: 44.169 ms  
Loss rate: 1.70%  
-- Flow 1:  
Average throughput: 95.68 Mbit/s  
95th percentile per-packet one-way delay: 44.169 ms  
Loss rate: 1.70%

Run 4: Report of TCP BBR — Data Link





Run 5: Statistics of TCP BBR

Start at: 2019-02-12 00:13:12

End at: 2019-02-12 00:13:42

Local clock offset: 0.093 ms

Remote clock offset: -5.24 ms

# Below is generated by plot.py at 2019-02-12 00:38:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.52 Mbit/s

95th percentile per-packet one-way delay: 41.737 ms

Loss rate: 1.20%

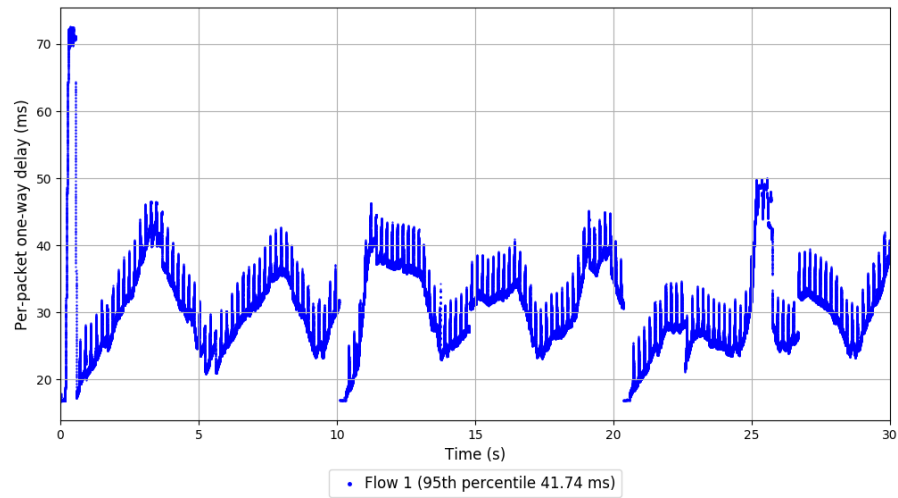
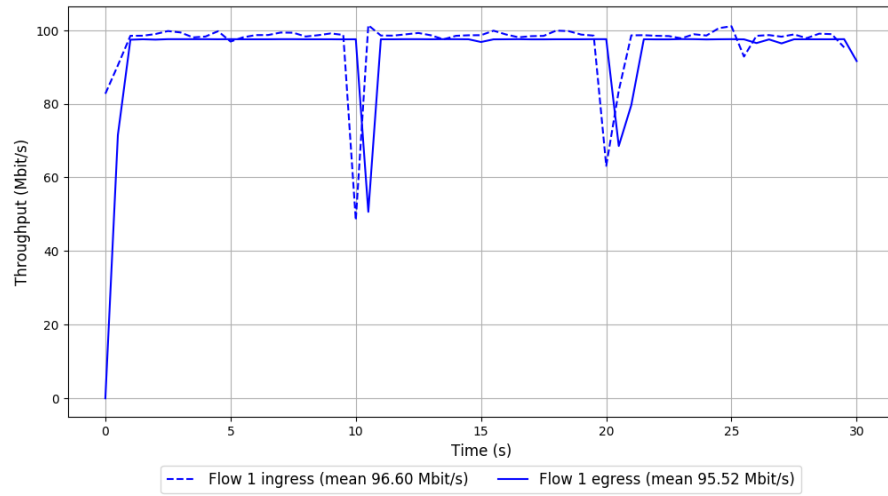
-- Flow 1:

Average throughput: 95.52 Mbit/s

95th percentile per-packet one-way delay: 41.737 ms

Loss rate: 1.20%

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

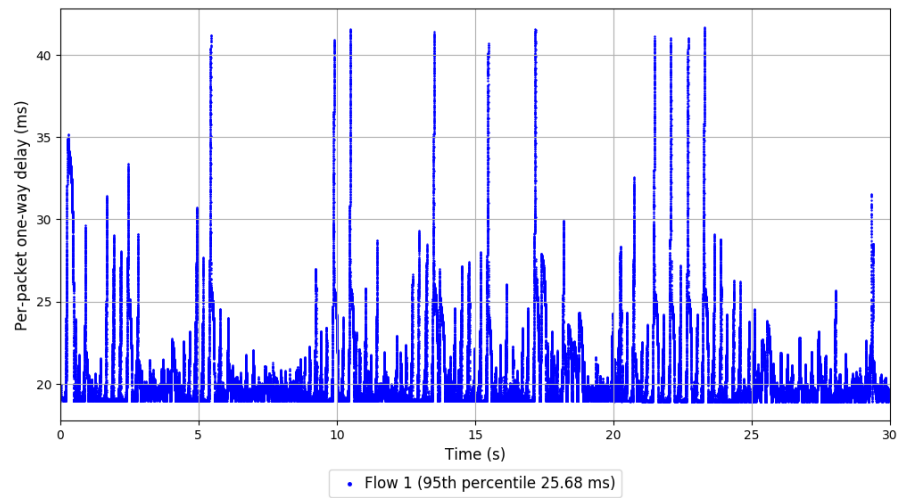
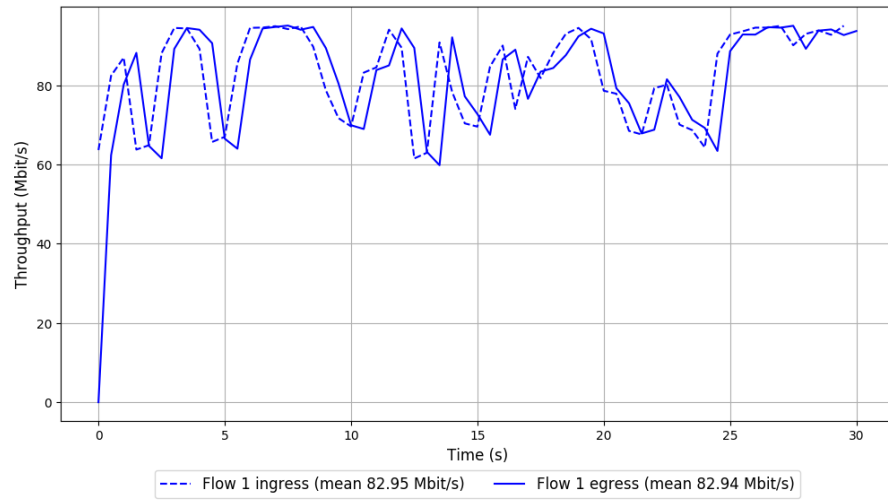


Run 1: Statistics of Copa

Start at: 2019-02-11 22:52:30  
End at: 2019-02-11 22:53:00  
Local clock offset: 6.14 ms  
Remote clock offset: -5.031 ms

# Below is generated by plot.py at 2019-02-12 00:39:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 82.94 Mbit/s  
95th percentile per-packet one-way delay: 25.681 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 82.94 Mbit/s  
95th percentile per-packet one-way delay: 25.681 ms  
Loss rate: 0.10%

### Run 1: Report of Copa — Data Link

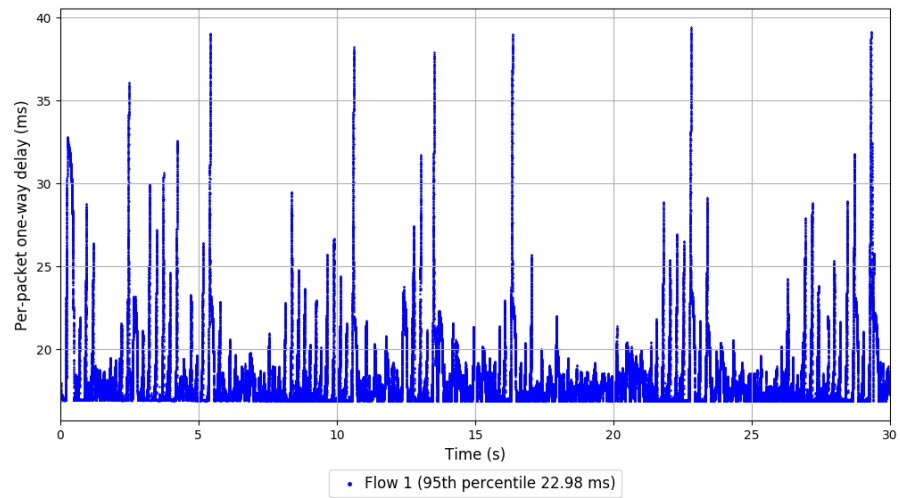
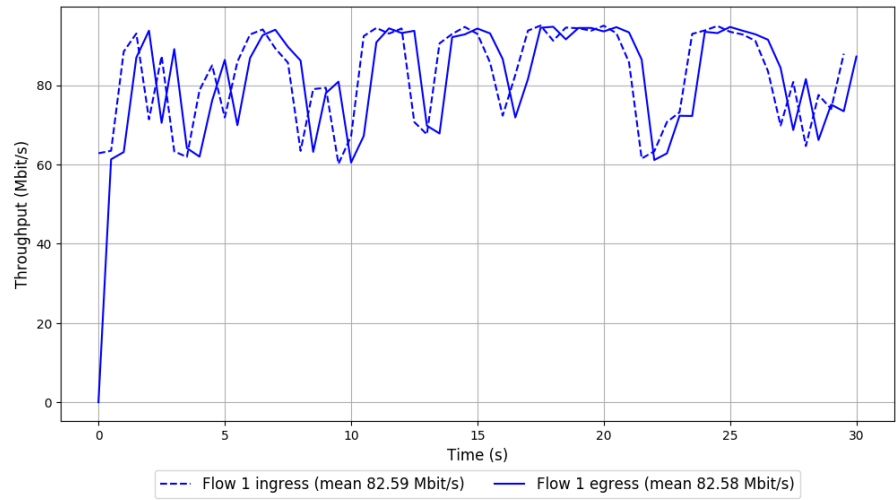


Run 2: Statistics of Copa

Start at: 2019-02-11 23:17:21  
End at: 2019-02-11 23:17:51  
Local clock offset: 6.246 ms  
Remote clock offset: -5.024 ms

# Below is generated by plot.py at 2019-02-12 00:39:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 82.58 Mbit/s  
95th percentile per-packet one-way delay: 22.975 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 82.58 Mbit/s  
95th percentile per-packet one-way delay: 22.975 ms  
Loss rate: 0.09%

## Run 2: Report of Copa — Data Link

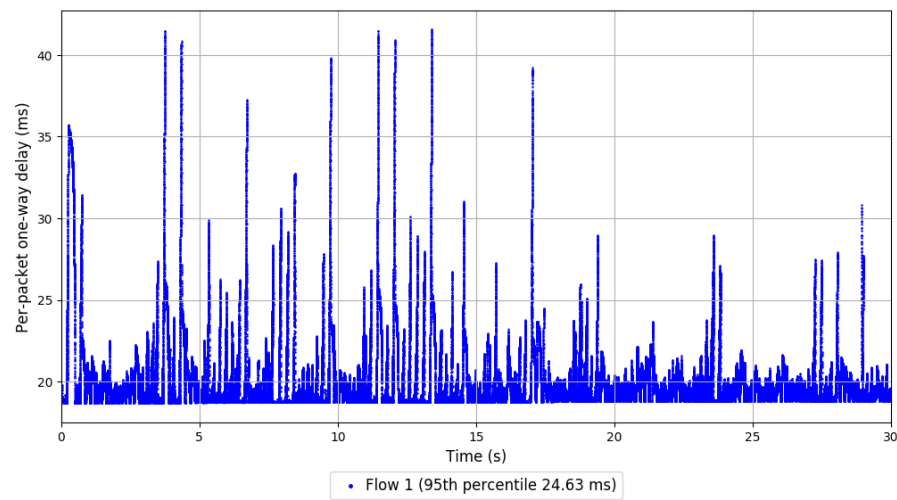
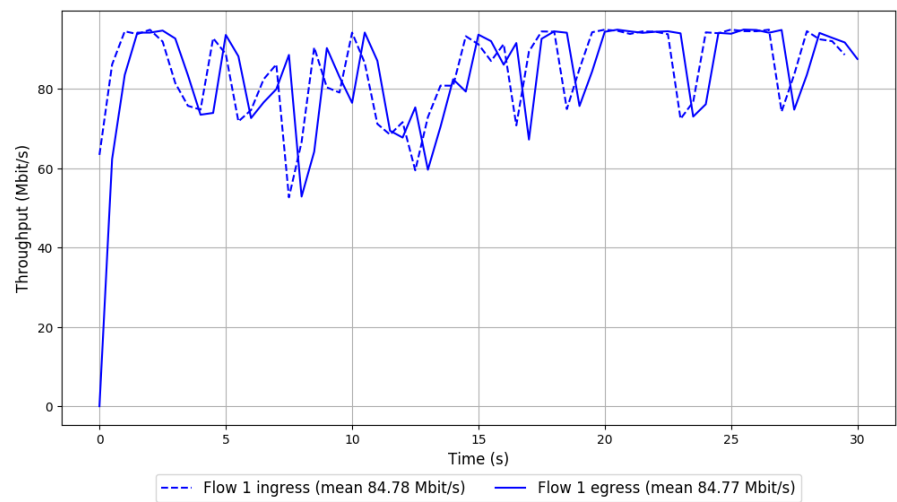


Run 3: Statistics of Copa

Start at: 2019-02-11 23:42:18  
End at: 2019-02-11 23:42:48  
Local clock offset: 3.162 ms  
Remote clock offset: -7.35 ms

# Below is generated by plot.py at 2019-02-12 00:39:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.77 Mbit/s  
95th percentile per-packet one-way delay: 24.626 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 84.77 Mbit/s  
95th percentile per-packet one-way delay: 24.626 ms  
Loss rate: 0.10%

Run 3: Report of Copa — Data Link





Run 4: Statistics of Copa

Start at: 2019-02-12 00:07:16

End at: 2019-02-12 00:07:46

Local clock offset: 1.589 ms

Remote clock offset: -6.18 ms

# Below is generated by plot.py at 2019-02-12 00:40:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.07 Mbit/s

95th percentile per-packet one-way delay: 23.958 ms

Loss rate: 0.10%

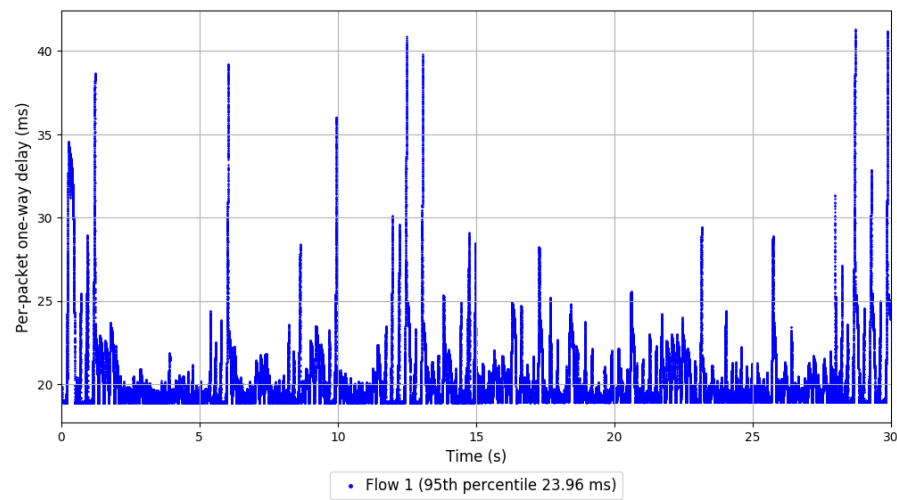
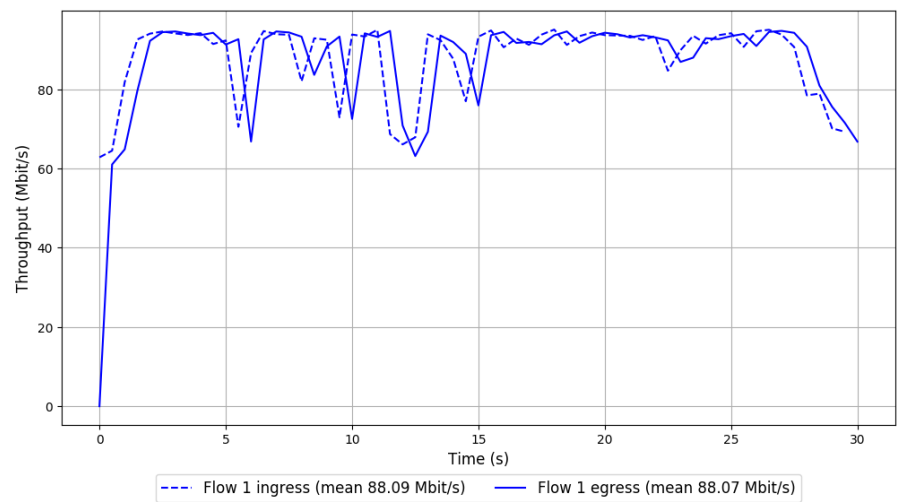
-- Flow 1:

Average throughput: 88.07 Mbit/s

95th percentile per-packet one-way delay: 23.958 ms

Loss rate: 0.10%

Run 4: Report of Copa — Data Link

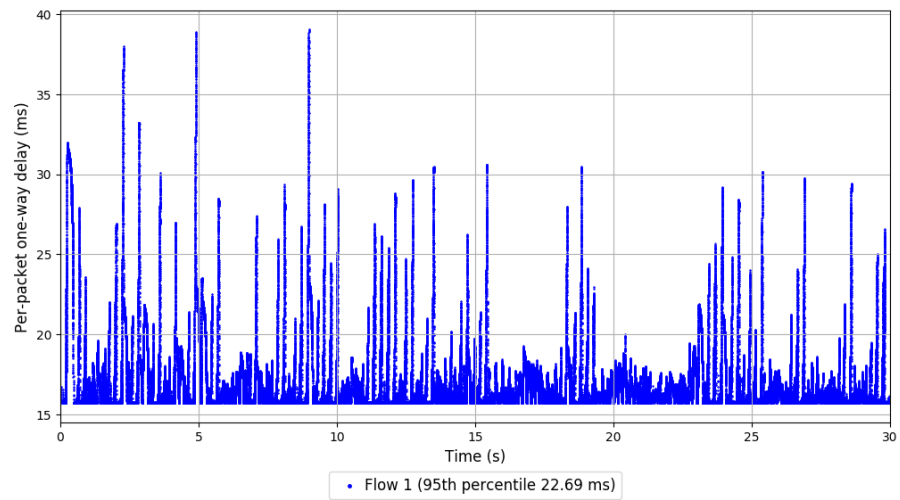
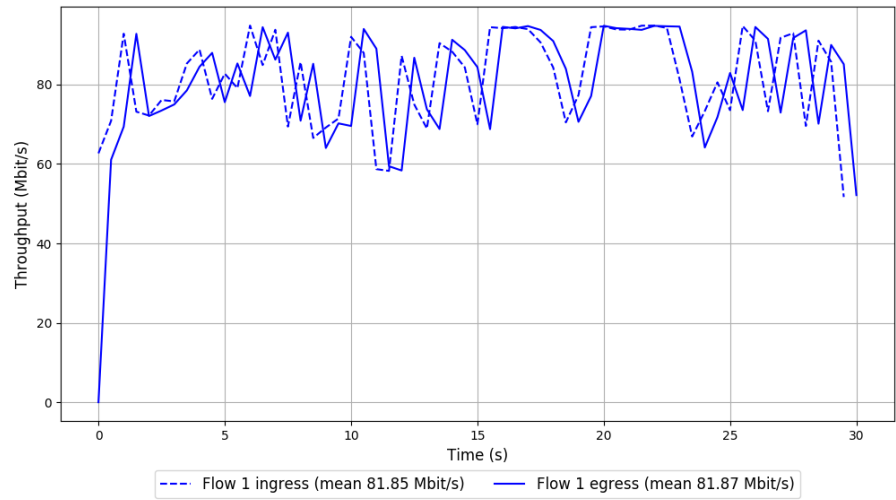


Run 5: Statistics of Copa

Start at: 2019-02-12 00:32:32  
End at: 2019-02-12 00:33:02  
Local clock offset: -2.66 ms  
Remote clock offset: -5.768 ms

# Below is generated by plot.py at 2019-02-12 00:40:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 81.87 Mbit/s  
95th percentile per-packet one-way delay: 22.686 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 81.87 Mbit/s  
95th percentile per-packet one-way delay: 22.686 ms  
Loss rate: 0.06%

### Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-02-11 22:39:34

End at: 2019-02-11 22:40:04

Local clock offset: 1.651 ms

Remote clock offset: -4.325 ms

# Below is generated by plot.py at 2019-02-12 00:40:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.62 Mbit/s

95th percentile per-packet one-way delay: 23.974 ms

Loss rate: 0.10%

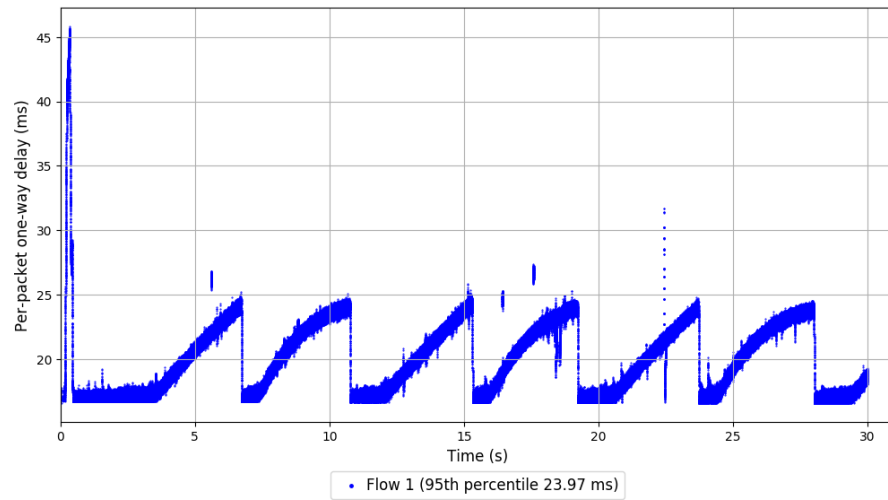
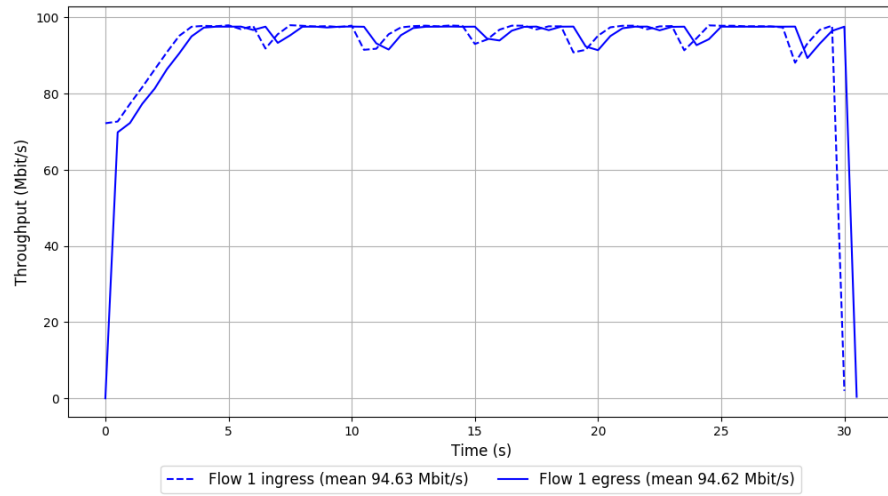
-- Flow 1:

Average throughput: 94.62 Mbit/s

95th percentile per-packet one-way delay: 23.974 ms

Loss rate: 0.10%

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

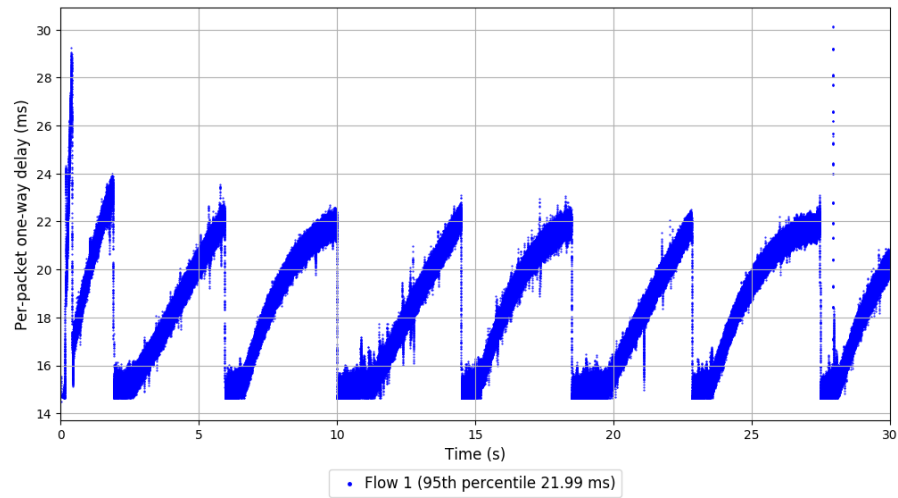
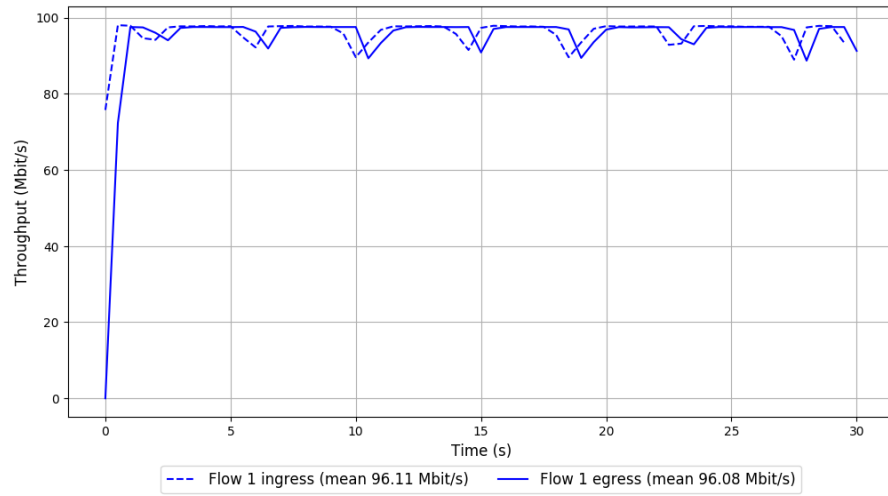


Run 2: Statistics of TCP Cubic

Start at: 2019-02-11 23:04:24  
End at: 2019-02-11 23:04:54  
Local clock offset: 3.897 ms  
Remote clock offset: -4.303 ms

# Below is generated by plot.py at 2019-02-12 00:40:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.08 Mbit/s  
95th percentile per-packet one-way delay: 21.992 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 96.08 Mbit/s  
95th percentile per-packet one-way delay: 21.992 ms  
Loss rate: 0.11%

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



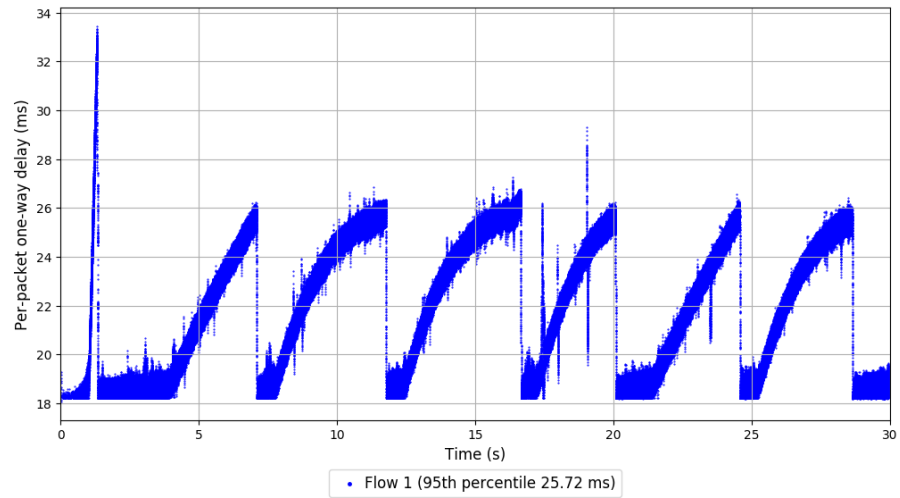
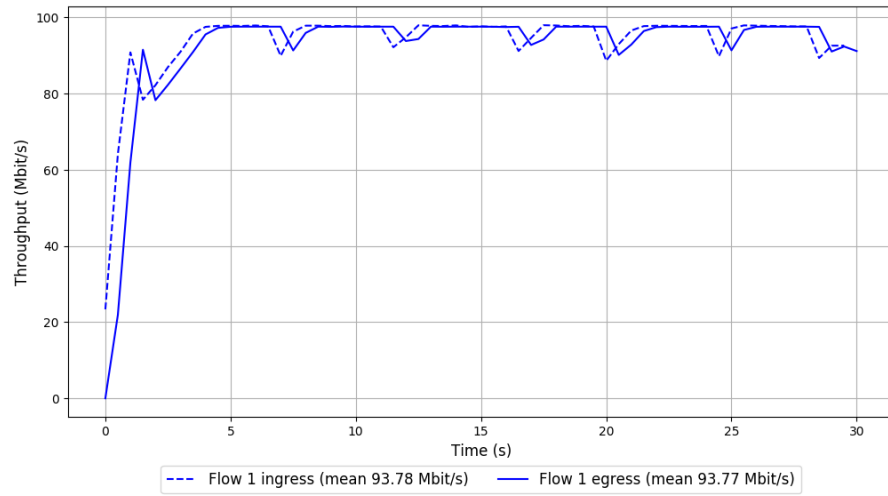


Run 3: Statistics of TCP Cubic

Start at: 2019-02-11 23:29:17  
End at: 2019-02-11 23:29:47  
Local clock offset: 7.683 ms  
Remote clock offset: -5.738 ms

# Below is generated by plot.py at 2019-02-12 00:40:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 93.77 Mbit/s  
95th percentile per-packet one-way delay: 25.717 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 93.77 Mbit/s  
95th percentile per-packet one-way delay: 25.717 ms  
Loss rate: 0.09%

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

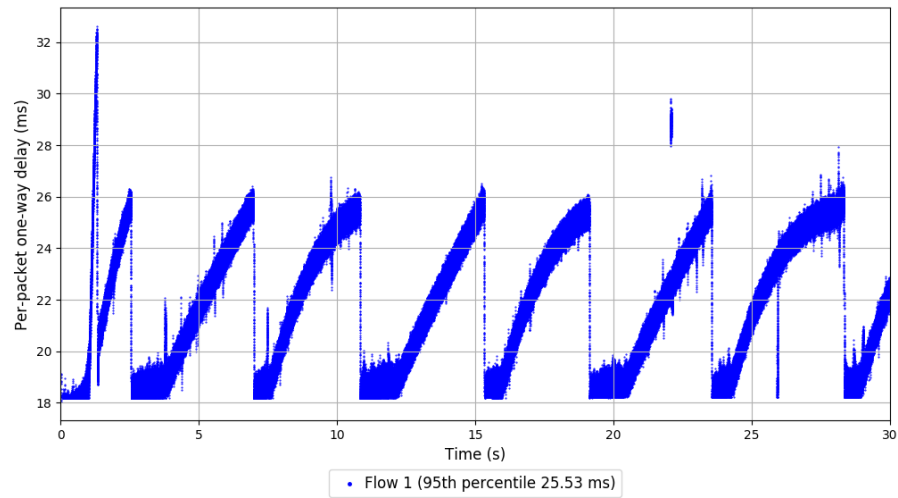
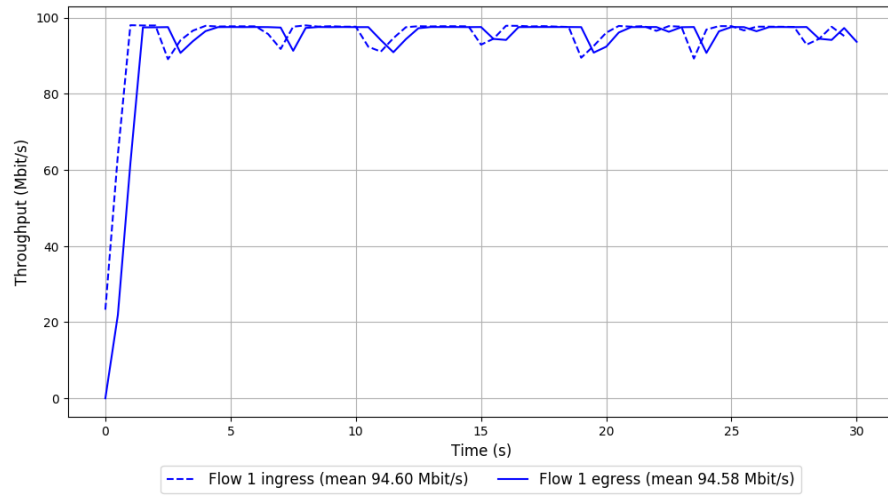


Run 4: Statistics of TCP Cubic

Start at: 2019-02-11 23:54:22  
End at: 2019-02-11 23:54:52  
Local clock offset: 0.637 ms  
Remote clock offset: -7.365 ms

# Below is generated by plot.py at 2019-02-12 00:40:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.58 Mbit/s  
95th percentile per-packet one-way delay: 25.532 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 94.58 Mbit/s  
95th percentile per-packet one-way delay: 25.532 ms  
Loss rate: 0.10%

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

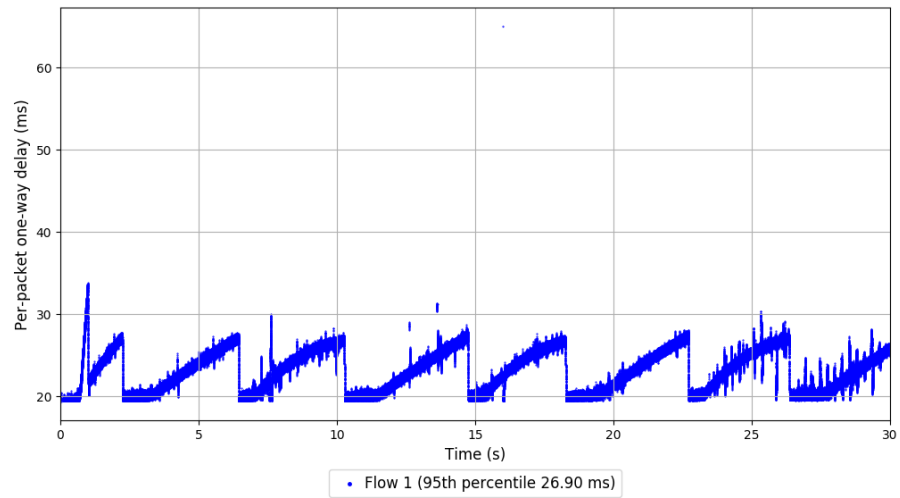
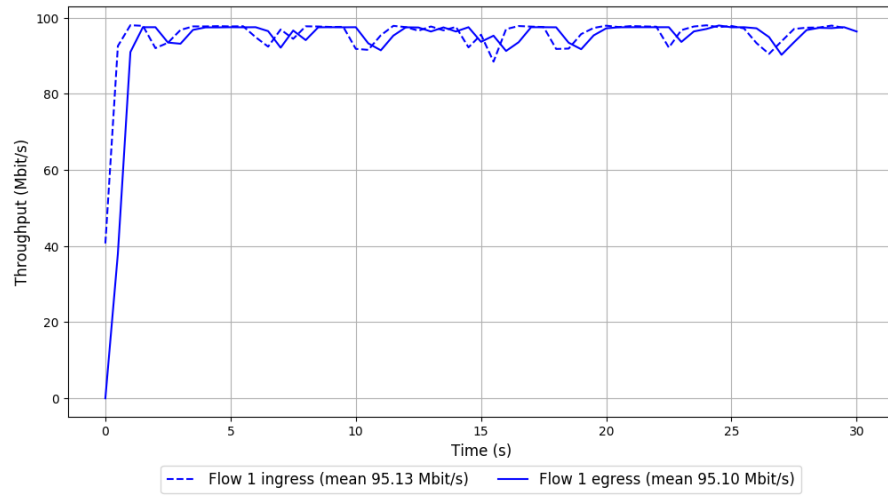


Run 5: Statistics of TCP Cubic

Start at: 2019-02-12 00:19:24  
End at: 2019-02-12 00:19:54  
Local clock offset: 0.722 ms  
Remote clock offset: -7.008 ms

# Below is generated by plot.py at 2019-02-12 00:40:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.10 Mbit/s  
95th percentile per-packet one-way delay: 26.898 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 95.10 Mbit/s  
95th percentile per-packet one-way delay: 26.898 ms  
Loss rate: 0.11%

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

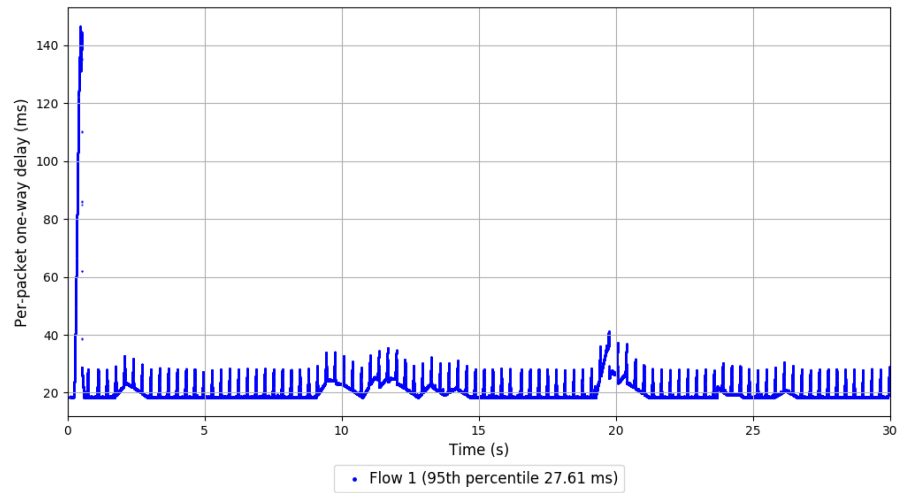
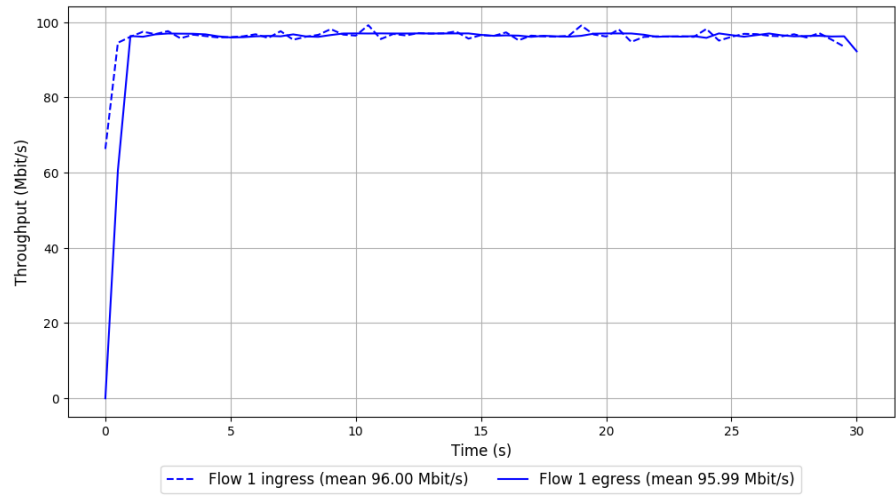


Run 1: Statistics of FillP

Start at: 2019-02-11 22:48:58  
End at: 2019-02-11 22:49:28  
Local clock offset: 5.061 ms  
Remote clock offset: -5.095 ms

# Below is generated by plot.py at 2019-02-12 00:40:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.99 Mbit/s  
95th percentile per-packet one-way delay: 27.607 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 95.99 Mbit/s  
95th percentile per-packet one-way delay: 27.607 ms  
Loss rate: 0.09%

## Run 1: Report of FillP — Data Link



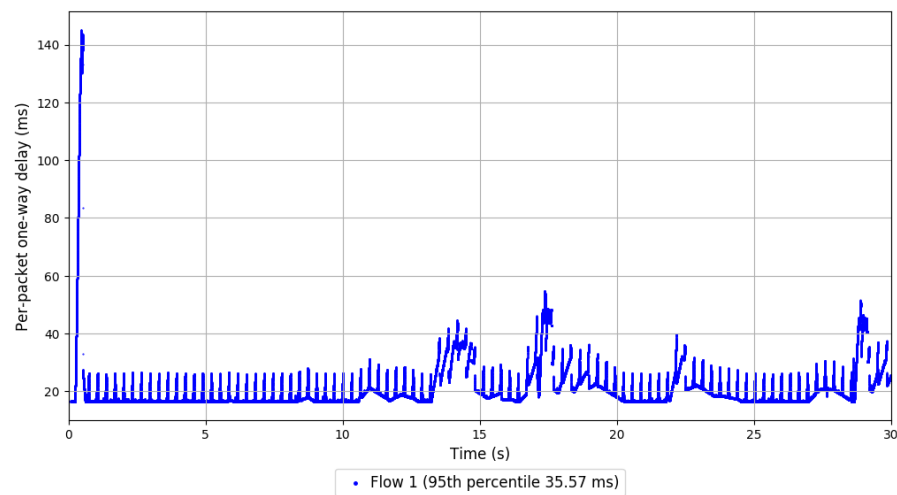
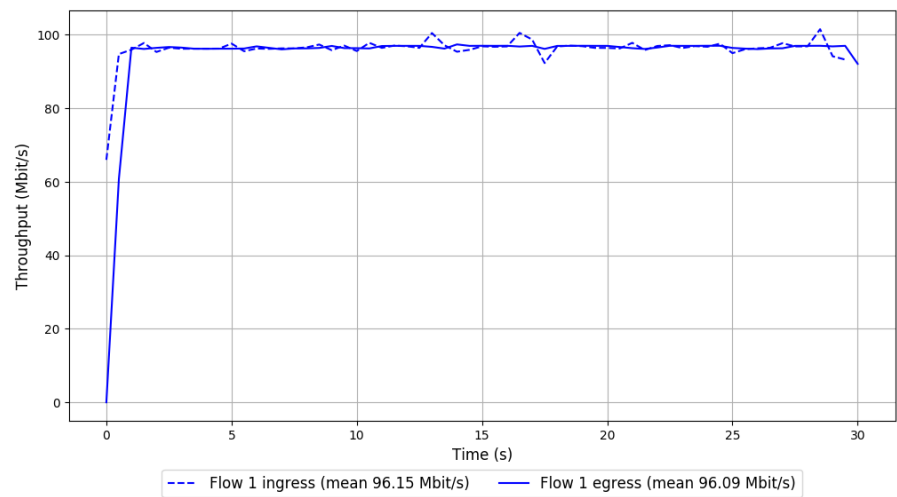


Run 2: Statistics of FillP

Start at: 2019-02-11 23:13:52  
End at: 2019-02-11 23:14:22  
Local clock offset: 6.265 ms  
Remote clock offset: -4.398 ms

# Below is generated by plot.py at 2019-02-12 00:41:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.09 Mbit/s  
95th percentile per-packet one-way delay: 35.567 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 96.09 Mbit/s  
95th percentile per-packet one-way delay: 35.567 ms  
Loss rate: 0.14%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-02-11 23:38:44

End at: 2019-02-11 23:39:14

Local clock offset: 3.346 ms

Remote clock offset: -4.9 ms

# Below is generated by plot.py at 2019-02-12 00:41:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.15 Mbit/s

95th percentile per-packet one-way delay: 38.918 ms

Loss rate: 0.20%

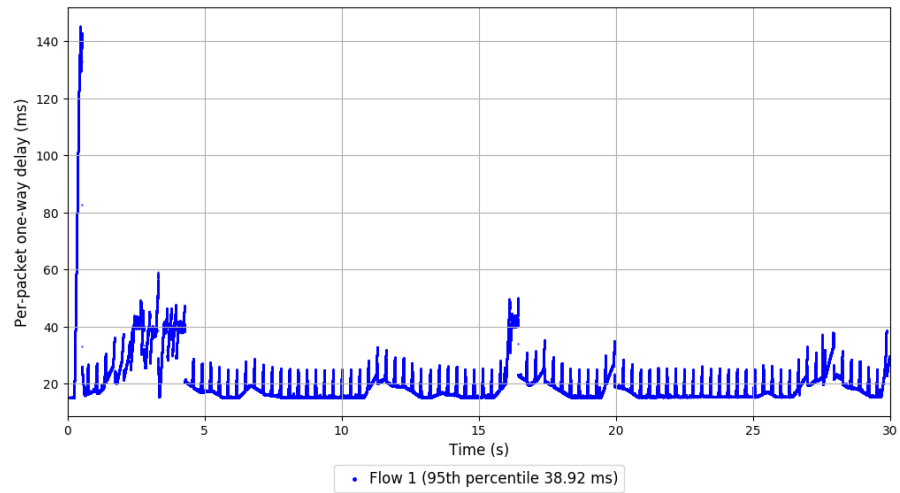
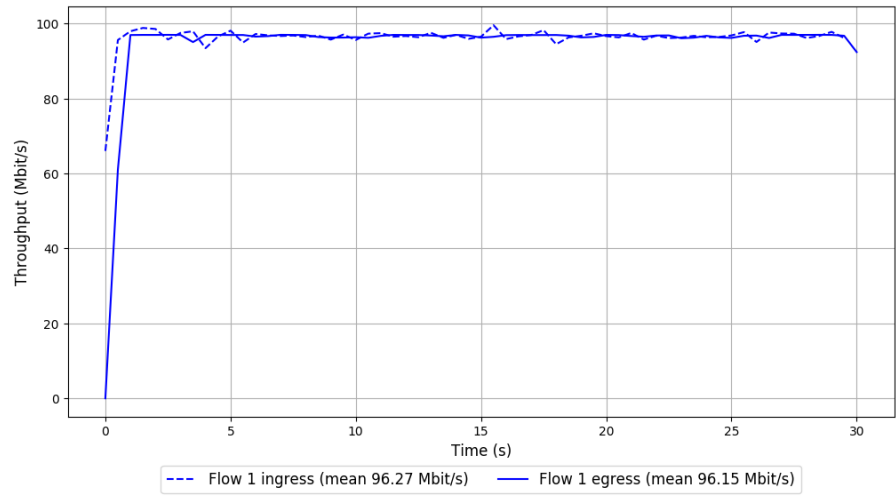
-- Flow 1:

Average throughput: 96.15 Mbit/s

95th percentile per-packet one-way delay: 38.918 ms

Loss rate: 0.20%

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

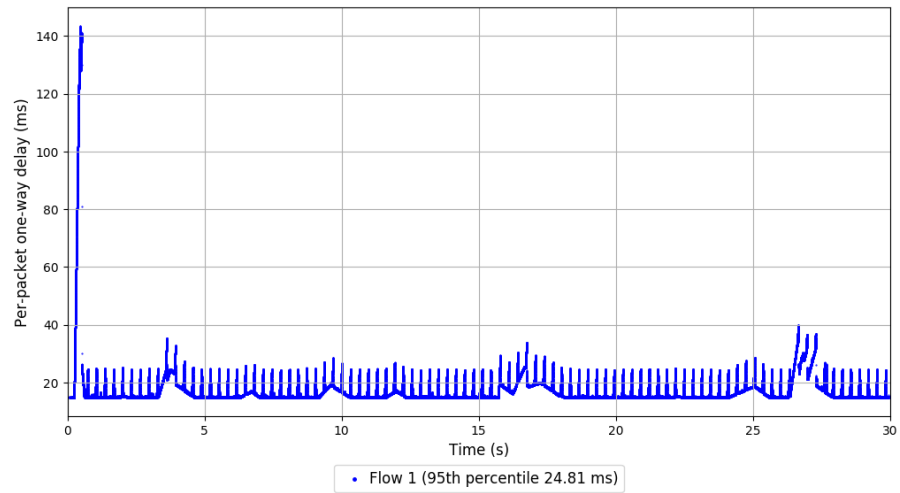
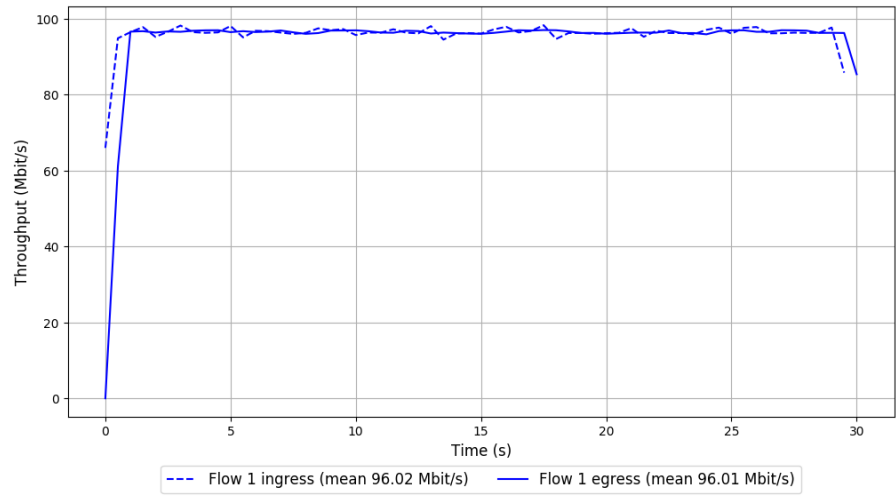


Run 4: Statistics of FillP

Start at: 2019-02-12 00:03:43  
End at: 2019-02-12 00:04:13  
Local clock offset: -0.902 ms  
Remote clock offset: -4.947 ms

# Below is generated by plot.py at 2019-02-12 00:41:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.01 Mbit/s  
95th percentile per-packet one-way delay: 24.808 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 96.01 Mbit/s  
95th percentile per-packet one-way delay: 24.808 ms  
Loss rate: 0.09%

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

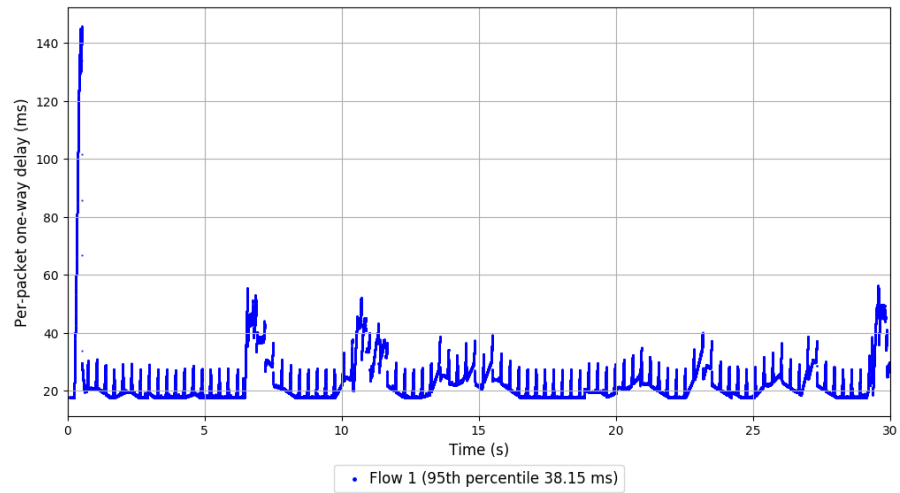
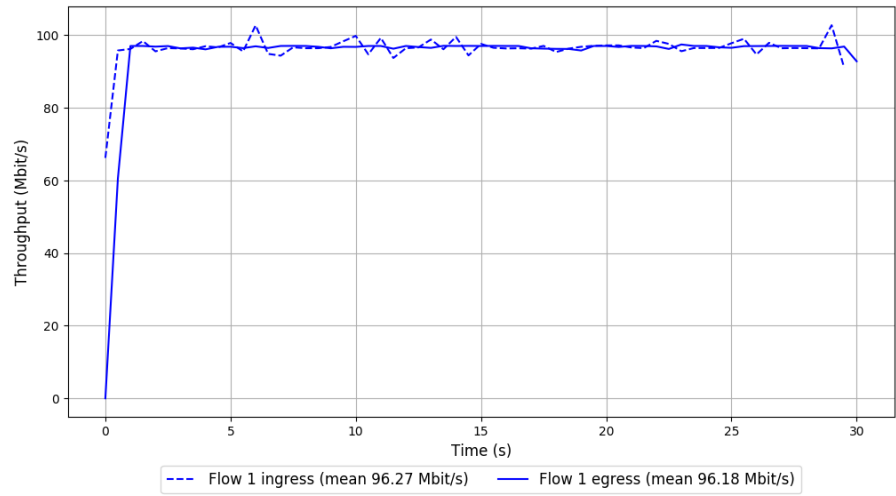


Run 5: Statistics of FillP

Start at: 2019-02-12 00:28:54  
End at: 2019-02-12 00:29:24  
Local clock offset: -1.059 ms  
Remote clock offset: -6.519 ms

# Below is generated by plot.py at 2019-02-12 00:41:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.18 Mbit/s  
95th percentile per-packet one-way delay: 38.152 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 96.18 Mbit/s  
95th percentile per-packet one-way delay: 38.152 ms  
Loss rate: 0.17%

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





Run 1: Statistics of FillP-Sheep

Start at: 2019-02-11 22:34:32

End at: 2019-02-11 22:35:02

Local clock offset: 1.468 ms

Remote clock offset: -4.016 ms

# Below is generated by plot.py at 2019-02-12 00:41:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.12 Mbit/s

95th percentile per-packet one-way delay: 22.357 ms

Loss rate: 0.08%

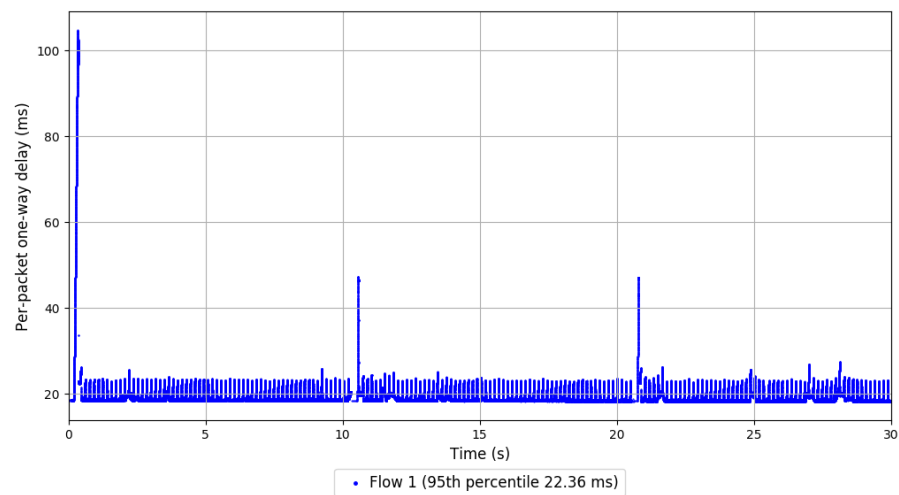
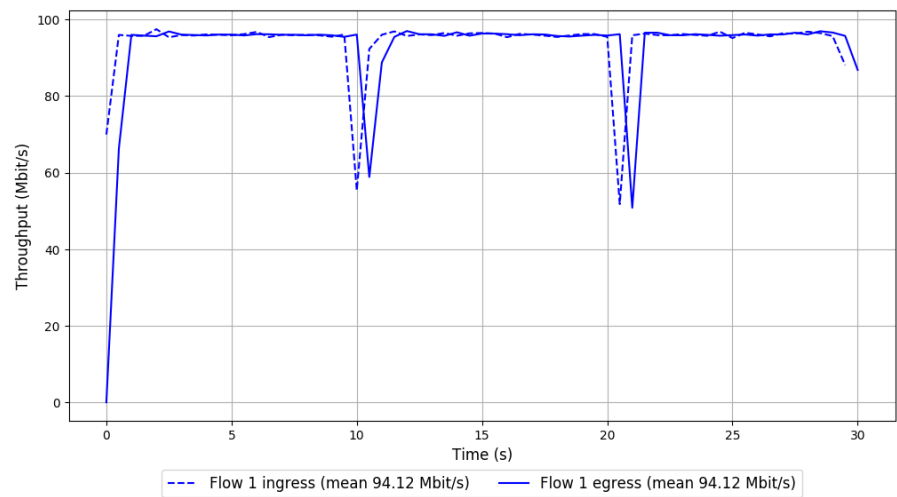
-- Flow 1:

Average throughput: 94.12 Mbit/s

95th percentile per-packet one-way delay: 22.357 ms

Loss rate: 0.08%

Run 1: Report of FillP-Sheep — Data Link

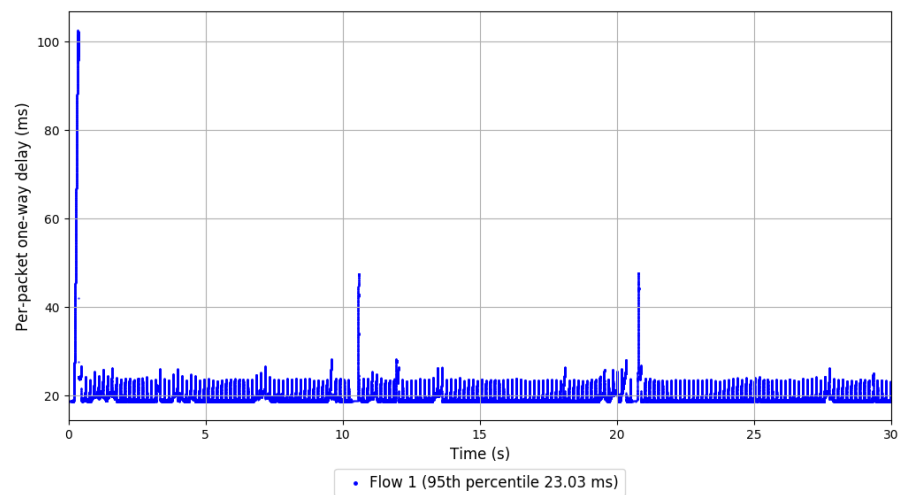
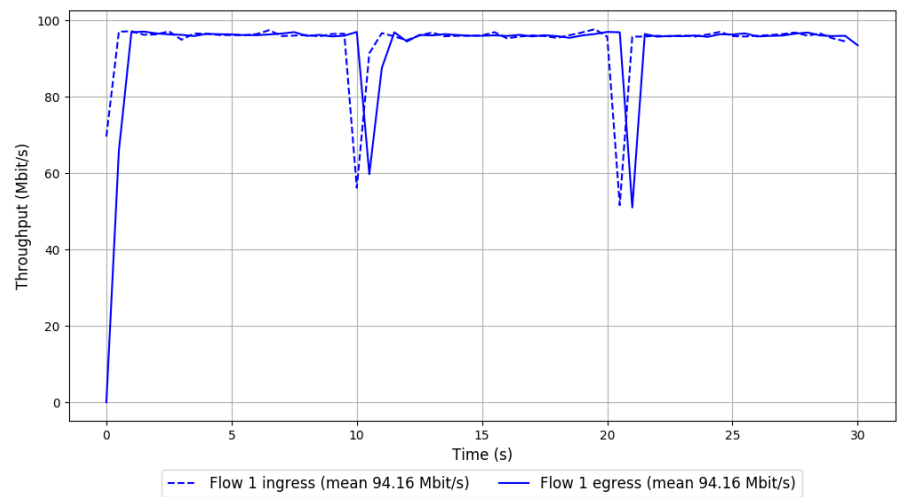


Run 2: Statistics of FillP-Sheep

Start at: 2019-02-11 22:59:34  
End at: 2019-02-11 23:00:04  
Local clock offset: 7.393 ms  
Remote clock offset: -4.469 ms

# Below is generated by plot.py at 2019-02-12 00:41:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.16 Mbit/s  
95th percentile per-packet one-way delay: 23.027 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 94.16 Mbit/s  
95th percentile per-packet one-way delay: 23.027 ms  
Loss rate: 0.08%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-02-11 23:24:29

End at: 2019-02-11 23:24:59

Local clock offset: 5.432 ms

Remote clock offset: -6.794 ms

# Below is generated by plot.py at 2019-02-12 00:41:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.12 Mbit/s

95th percentile per-packet one-way delay: 21.689 ms

Loss rate: 0.08%

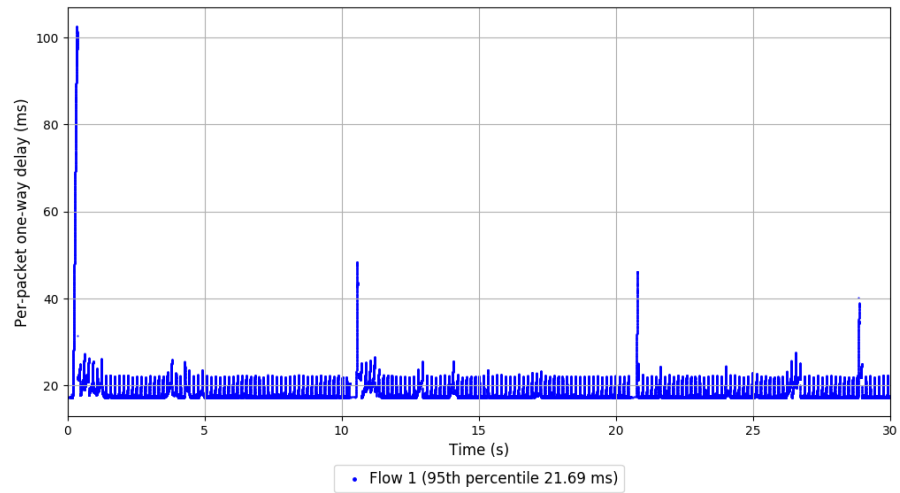
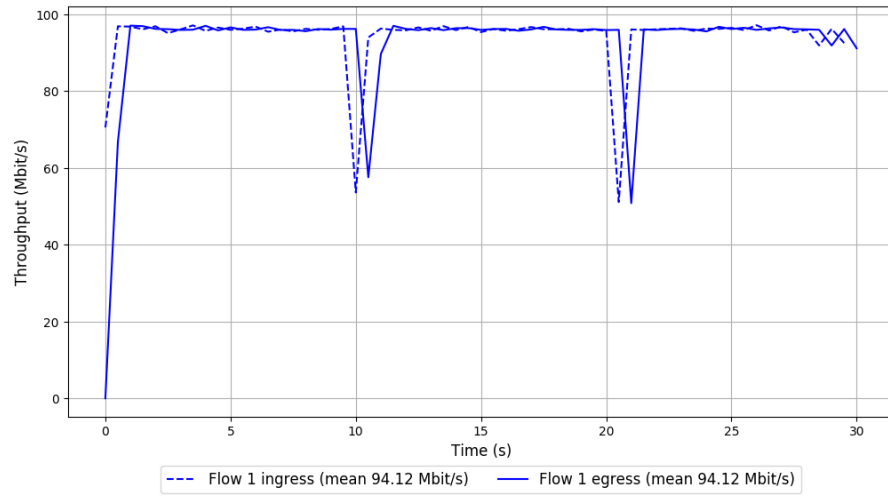
-- Flow 1:

Average throughput: 94.12 Mbit/s

95th percentile per-packet one-way delay: 21.689 ms

Loss rate: 0.08%

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

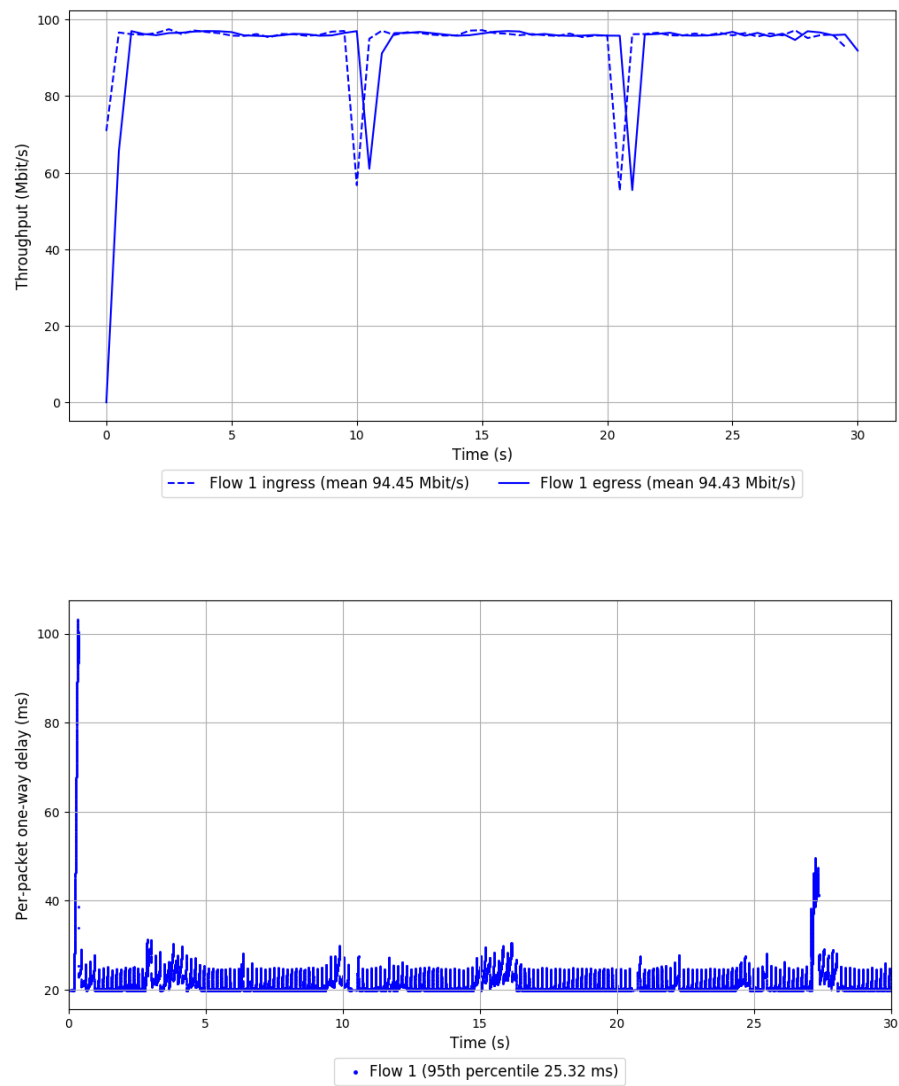


Run 4: Statistics of FillP-Sheep

Start at: 2019-02-11 23:49:29  
End at: 2019-02-11 23:49:59  
Local clock offset: 2.808 ms  
Remote clock offset: -7.578 ms

# Below is generated by plot.py at 2019-02-12 00:42:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.43 Mbit/s  
95th percentile per-packet one-way delay: 25.321 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 94.43 Mbit/s  
95th percentile per-packet one-way delay: 25.321 ms  
Loss rate: 0.10%

Run 4: Report of FillP-Sheep — Data Link



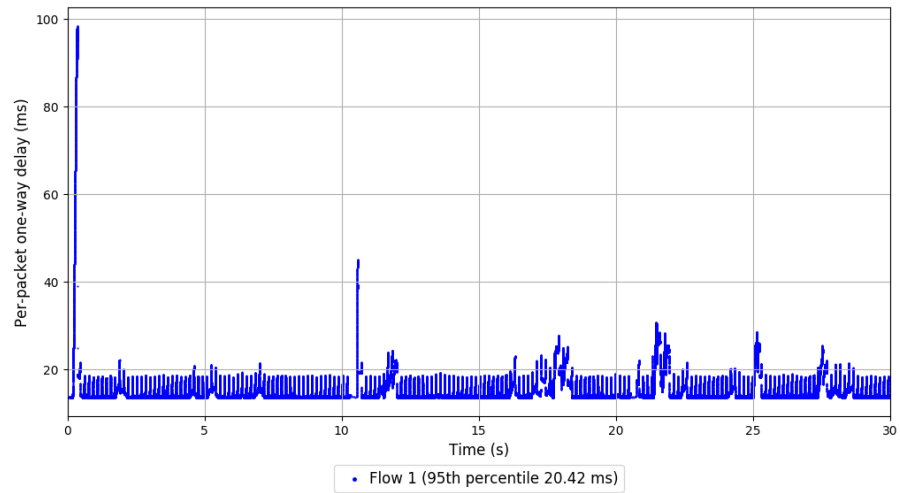
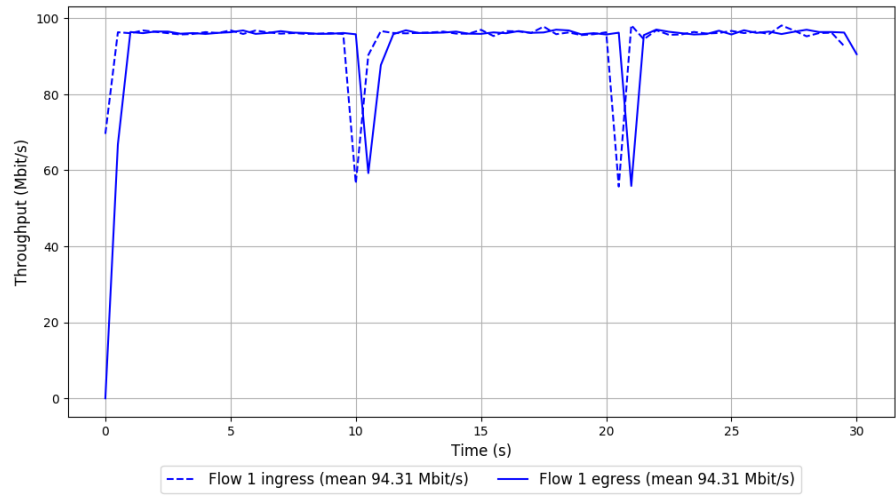


Run 5: Statistics of FillP-Sheep

Start at: 2019-02-12 00:14:26  
End at: 2019-02-12 00:14:56  
Local clock offset: -2.981 ms  
Remote clock offset: -5.227 ms

# Below is generated by plot.py at 2019-02-12 00:42:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.31 Mbit/s  
95th percentile per-packet one-way delay: 20.422 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 94.31 Mbit/s  
95th percentile per-packet one-way delay: 20.422 ms  
Loss rate: 0.09%

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



Run 1: Statistics of Indigo

Start at: 2019-02-11 22:36:57

End at: 2019-02-11 22:37:27

Local clock offset: 0.491 ms

Remote clock offset: -3.661 ms

# Below is generated by plot.py at 2019-02-12 00:42:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.09 Mbit/s

95th percentile per-packet one-way delay: 18.208 ms

Loss rate: 0.09%

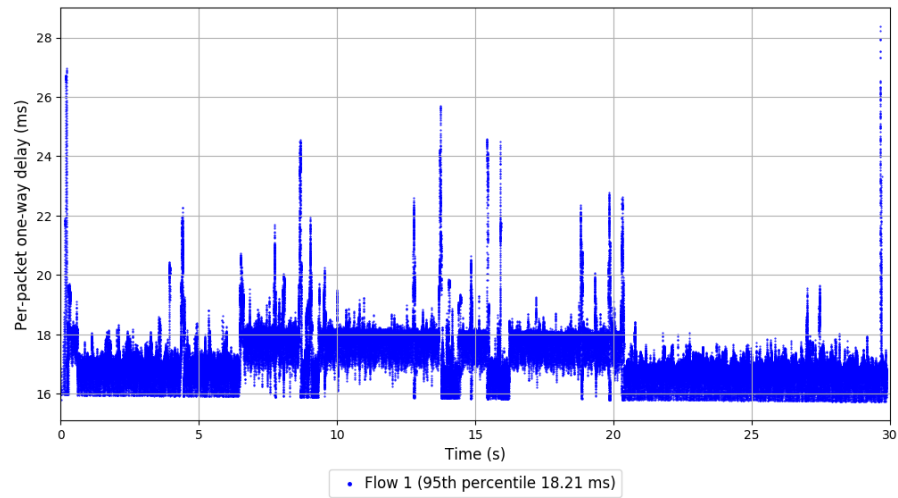
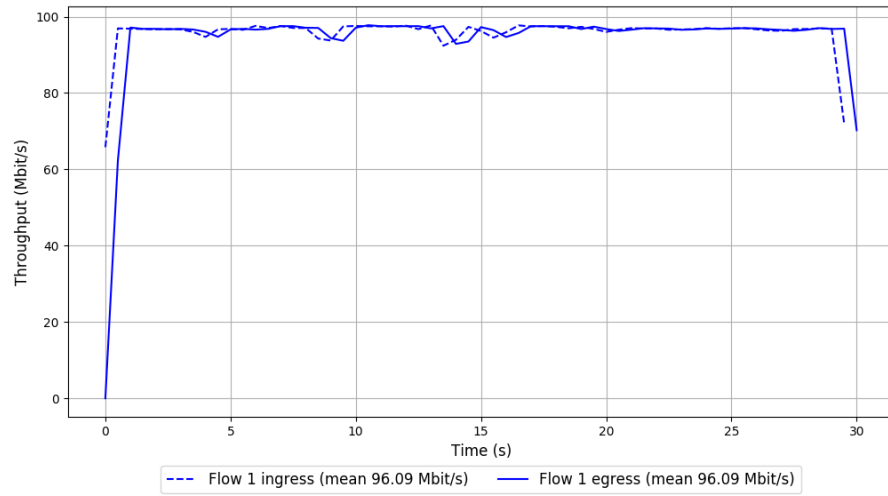
-- Flow 1:

Average throughput: 96.09 Mbit/s

95th percentile per-packet one-way delay: 18.208 ms

Loss rate: 0.09%

## Run 1: Report of Indigo — Data Link

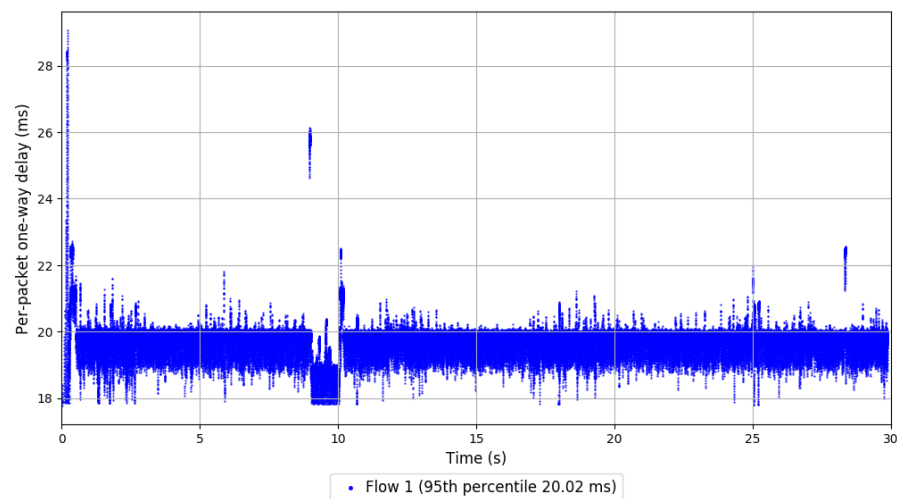
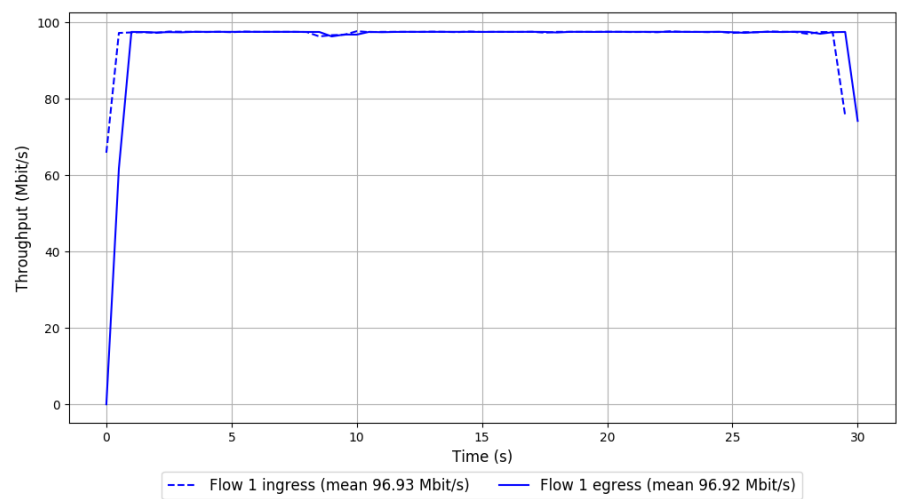


Run 2: Statistics of Indigo

Start at: 2019-02-11 23:01:59  
End at: 2019-02-11 23:02:29  
Local clock offset: 6.267 ms  
Remote clock offset: -4.906 ms

# Below is generated by plot.py at 2019-02-12 00:42:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.92 Mbit/s  
95th percentile per-packet one-way delay: 20.019 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 96.92 Mbit/s  
95th percentile per-packet one-way delay: 20.019 ms  
Loss rate: 0.09%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-02-11 23:26:54

End at: 2019-02-11 23:27:24

Local clock offset: 4.906 ms

Remote clock offset: -7.049 ms

# Below is generated by plot.py at 2019-02-12 00:42:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 19.023 ms

Loss rate: 0.09%

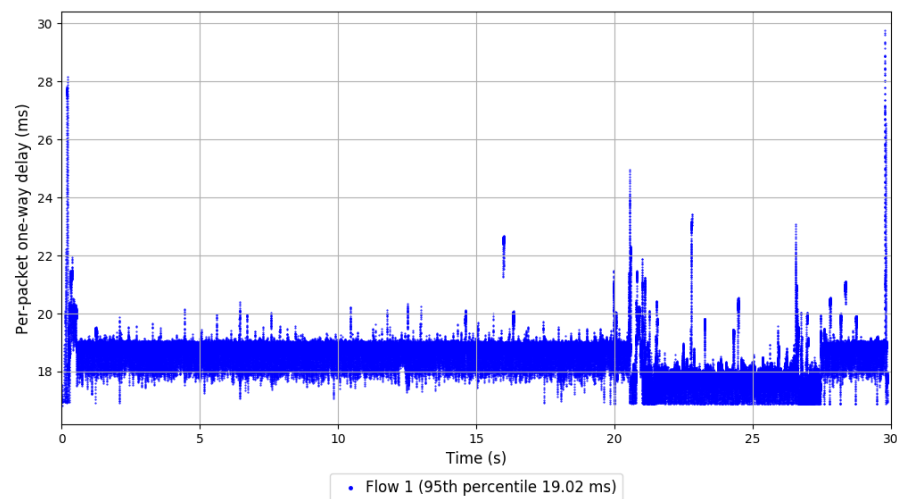
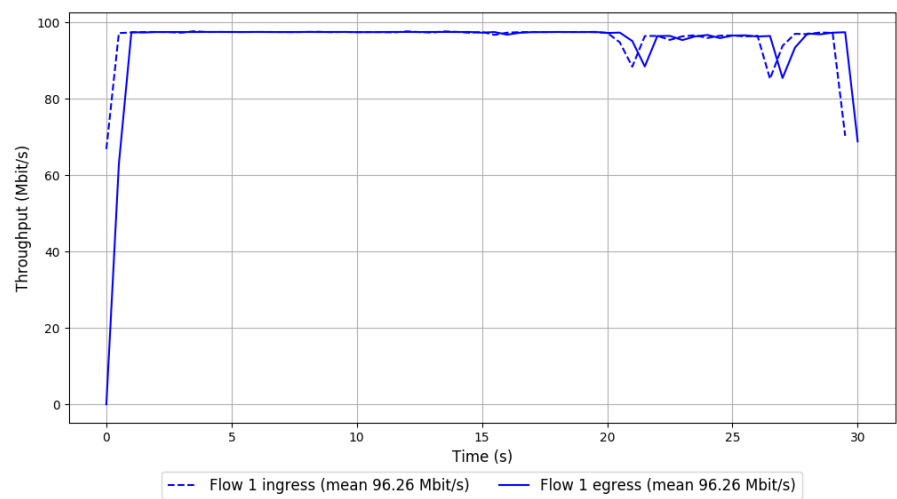
-- Flow 1:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 19.023 ms

Loss rate: 0.09%

Run 3: Report of Indigo — Data Link



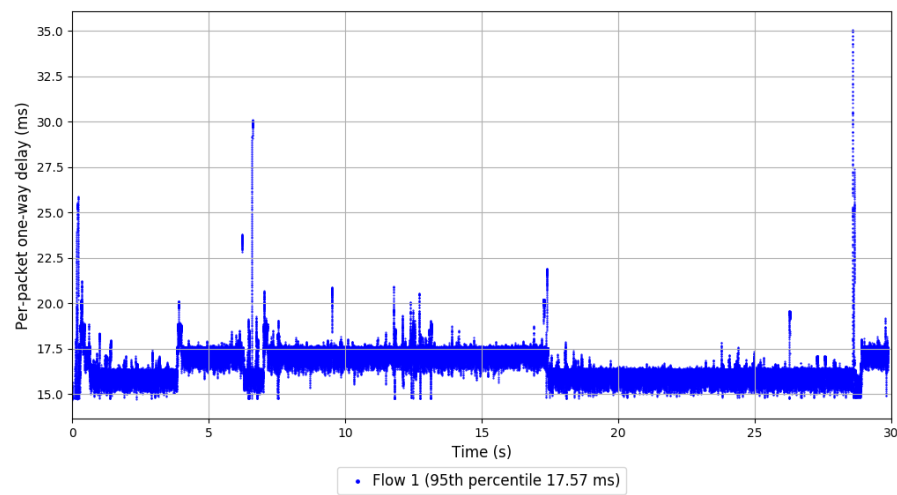
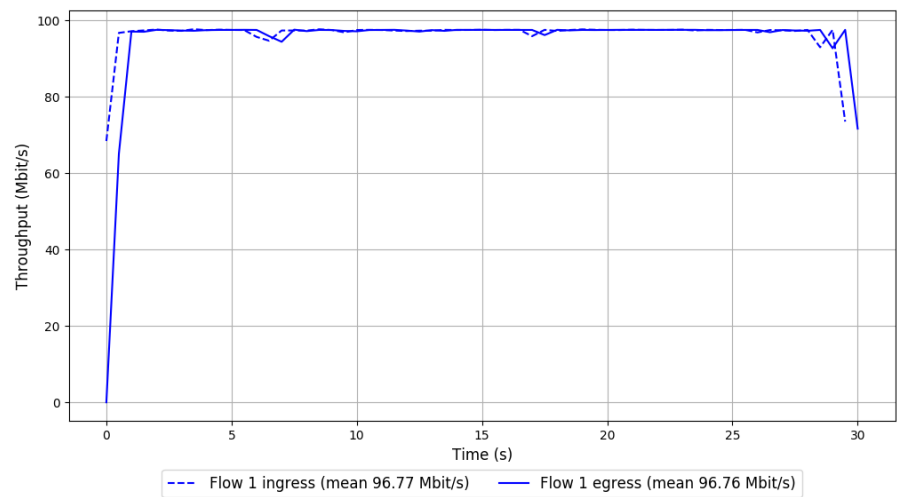


Run 4: Statistics of Indigo

Start at: 2019-02-11 23:51:56  
End at: 2019-02-11 23:52:26  
Local clock offset: -0.593 ms  
Remote clock offset: -5.416 ms

# Below is generated by plot.py at 2019-02-12 00:42:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.76 Mbit/s  
95th percentile per-packet one-way delay: 17.568 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 96.76 Mbit/s  
95th percentile per-packet one-way delay: 17.568 ms  
Loss rate: 0.09%

Run 4: Report of Indigo — Data Link

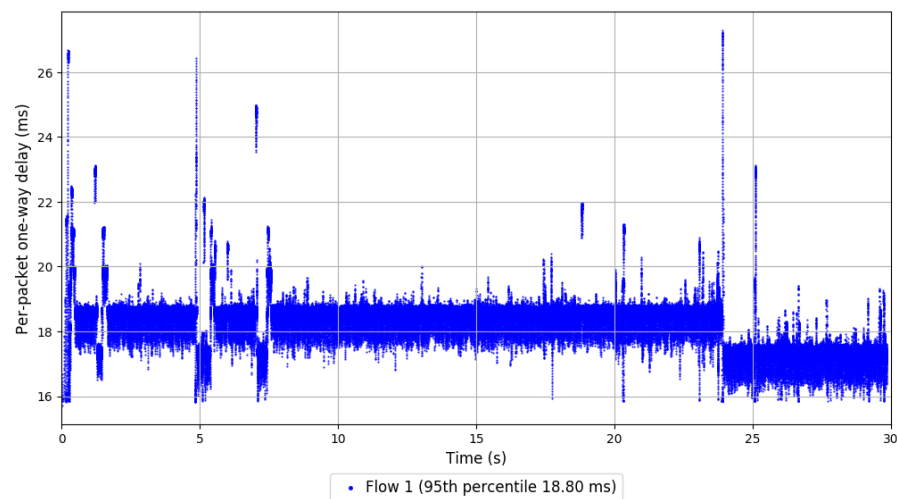
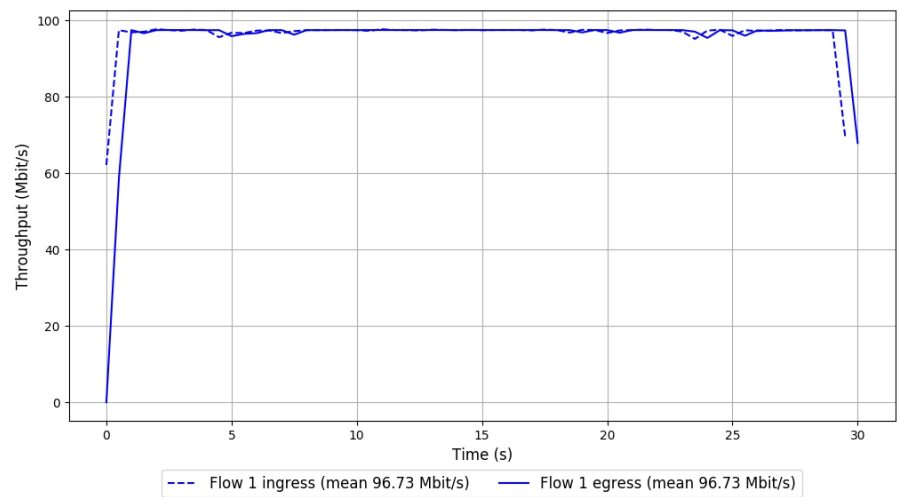


Run 5: Statistics of Indigo

Start at: 2019-02-12 00:16:54  
End at: 2019-02-12 00:17:24  
Local clock offset: -3.105 ms  
Remote clock offset: -7.283 ms

# Below is generated by plot.py at 2019-02-12 00:42:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.73 Mbit/s  
95th percentile per-packet one-way delay: 18.803 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 96.73 Mbit/s  
95th percentile per-packet one-way delay: 18.803 ms  
Loss rate: 0.09%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-02-11 22:47:47

End at: 2019-02-11 22:48:17

Local clock offset: 5.633 ms

Remote clock offset: -3.689 ms

# Below is generated by plot.py at 2019-02-12 00:42:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.38 Mbit/s

95th percentile per-packet one-way delay: 21.090 ms

Loss rate: 0.10%

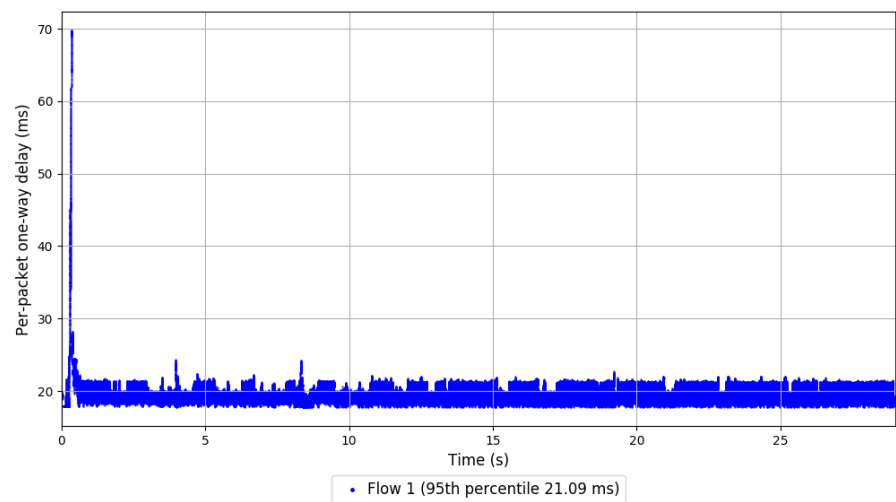
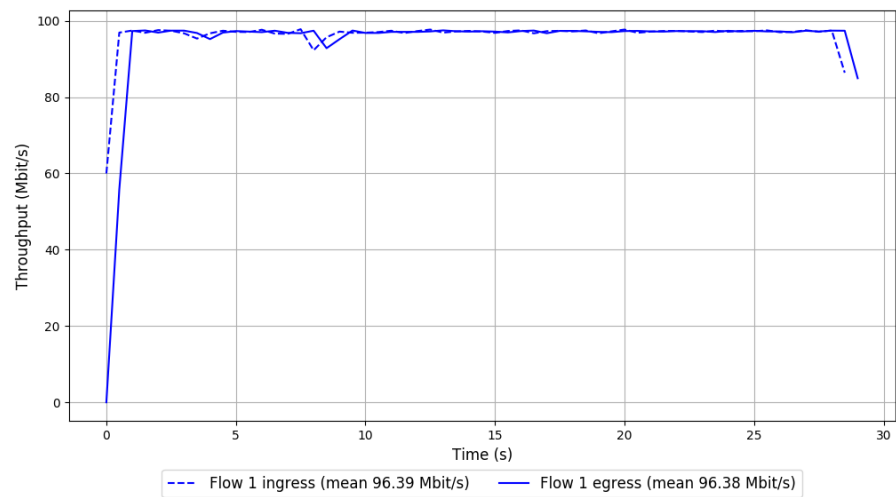
-- Flow 1:

Average throughput: 96.38 Mbit/s

95th percentile per-packet one-way delay: 21.090 ms

Loss rate: 0.10%

Run 1: Report of Indigo-MusesC3 — Data Link

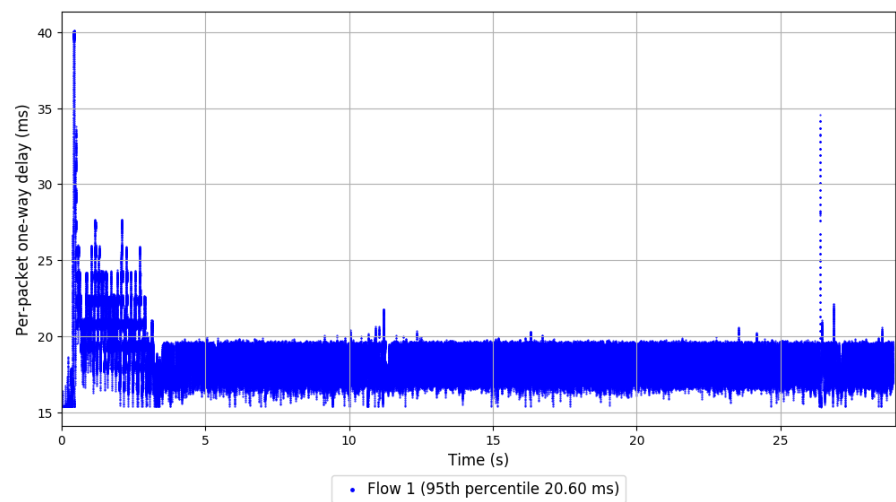
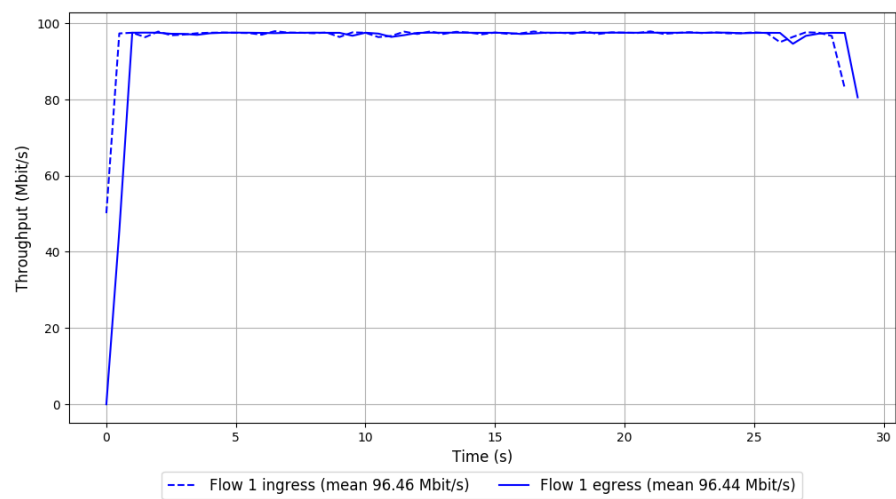


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-02-11 23:12:41  
End at: 2019-02-11 23:13:11  
Local clock offset: 3.625 ms  
Remote clock offset: -5.825 ms

# Below is generated by plot.py at 2019-02-12 00:43:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.44 Mbit/s  
95th percentile per-packet one-way delay: 20.602 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 96.44 Mbit/s  
95th percentile per-packet one-way delay: 20.602 ms  
Loss rate: 0.10%

Run 2: Report of Indigo-MusesC3 — Data Link



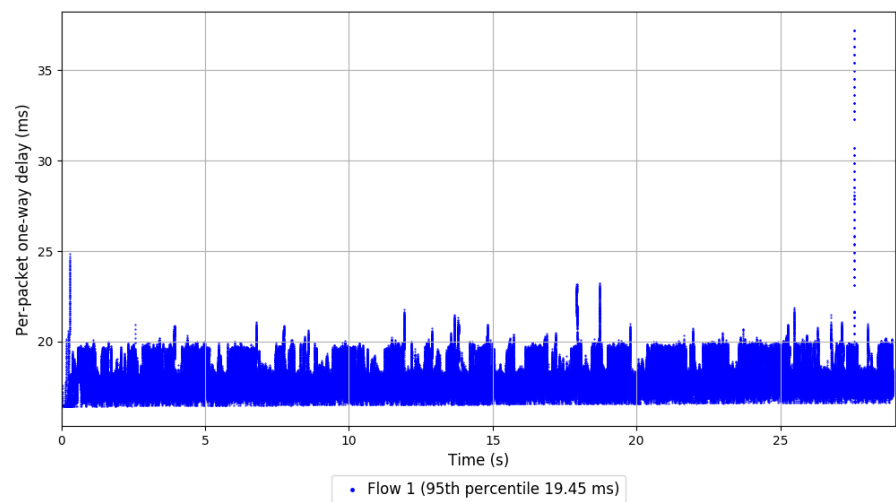
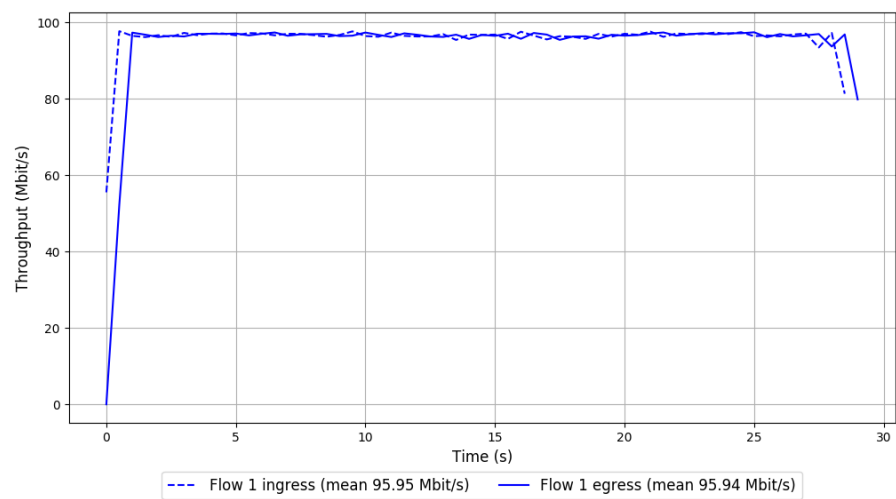


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-02-11 23:37:31  
End at: 2019-02-11 23:38:01  
Local clock offset: 4.125 ms  
Remote clock offset: -5.738 ms

# Below is generated by plot.py at 2019-02-12 00:43:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.94 Mbit/s  
95th percentile per-packet one-way delay: 19.451 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 95.94 Mbit/s  
95th percentile per-packet one-way delay: 19.451 ms  
Loss rate: 0.09%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-02-12 00:02:31

End at: 2019-02-12 00:03:01

Local clock offset: 0.18 ms

Remote clock offset: -6.73 ms

# Below is generated by plot.py at 2019-02-12 00:43:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.60 Mbit/s

95th percentile per-packet one-way delay: 21.500 ms

Loss rate: 0.10%

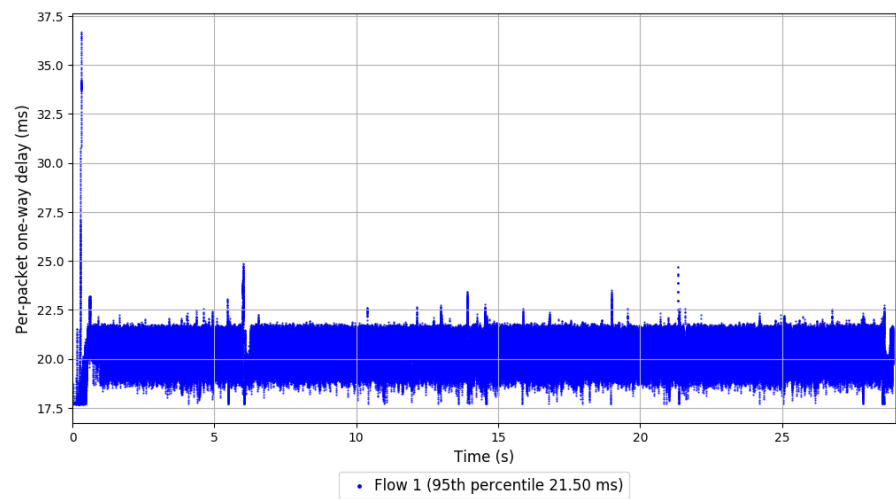
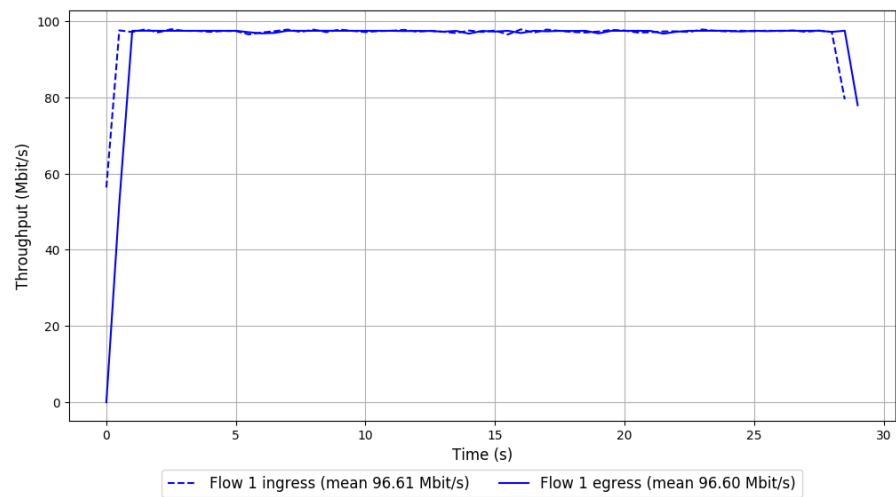
-- Flow 1:

Average throughput: 96.60 Mbit/s

95th percentile per-packet one-way delay: 21.500 ms

Loss rate: 0.10%

Run 4: Report of Indigo-MusesC3 — Data Link

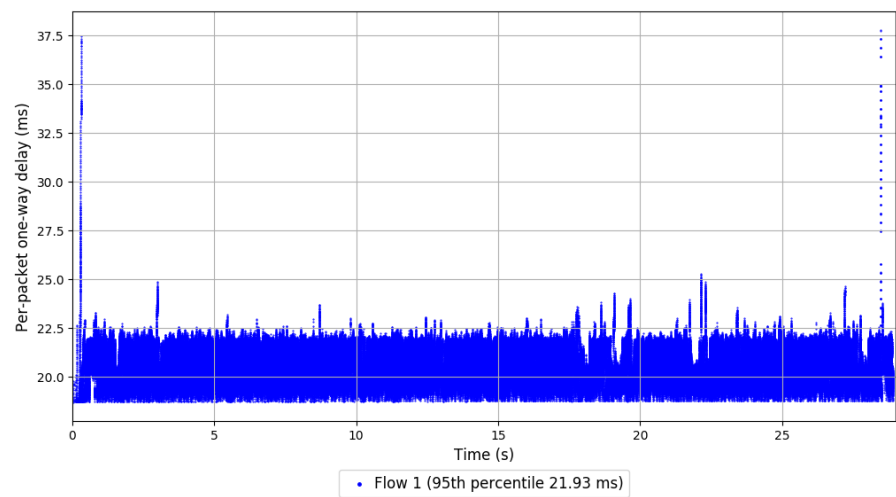
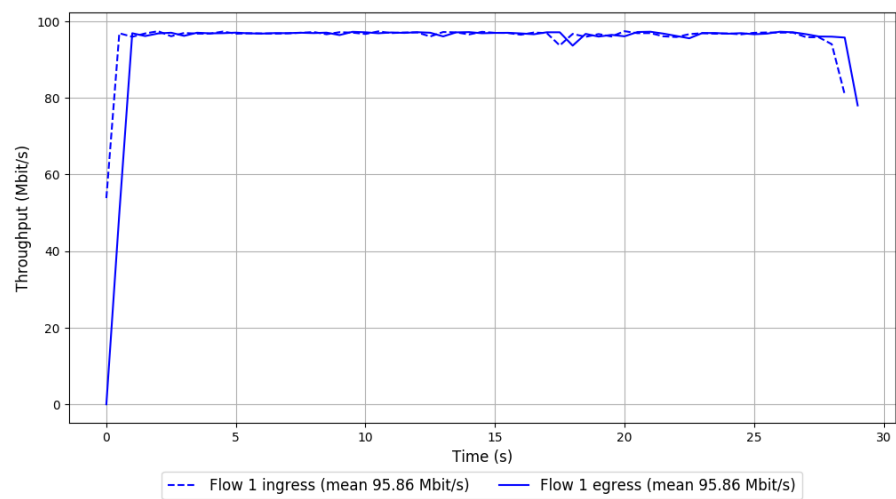


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-02-12 00:27:42  
End at: 2019-02-12 00:28:12  
Local clock offset: -0.632 ms  
Remote clock offset: -7.073 ms

# Below is generated by plot.py at 2019-02-12 00:43:21  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.86 Mbit/s  
95th percentile per-packet one-way delay: 21.933 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 95.86 Mbit/s  
95th percentile per-packet one-way delay: 21.933 ms  
Loss rate: 0.09%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-02-11 22:46:37

End at: 2019-02-11 22:47:07

Local clock offset: 4.316 ms

Remote clock offset: -3.862 ms

# Below is generated by plot.py at 2019-02-12 00:43:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.31 Mbit/s

95th percentile per-packet one-way delay: 18.772 ms

Loss rate: 0.09%

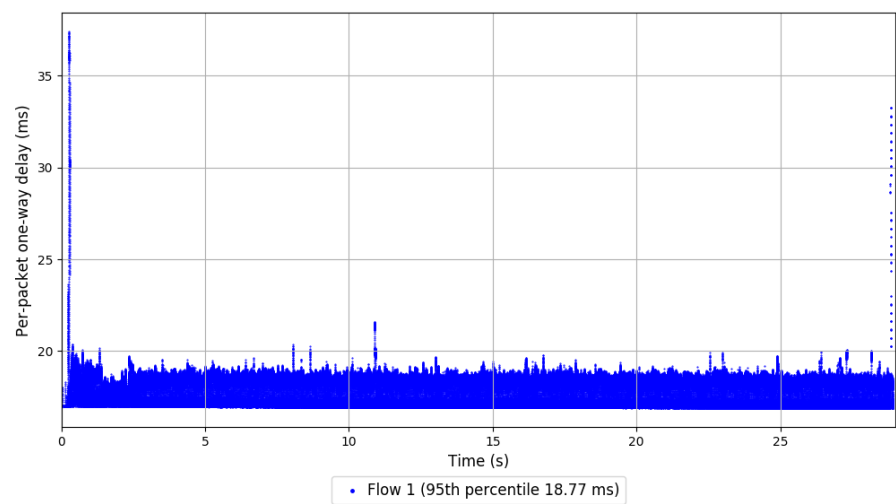
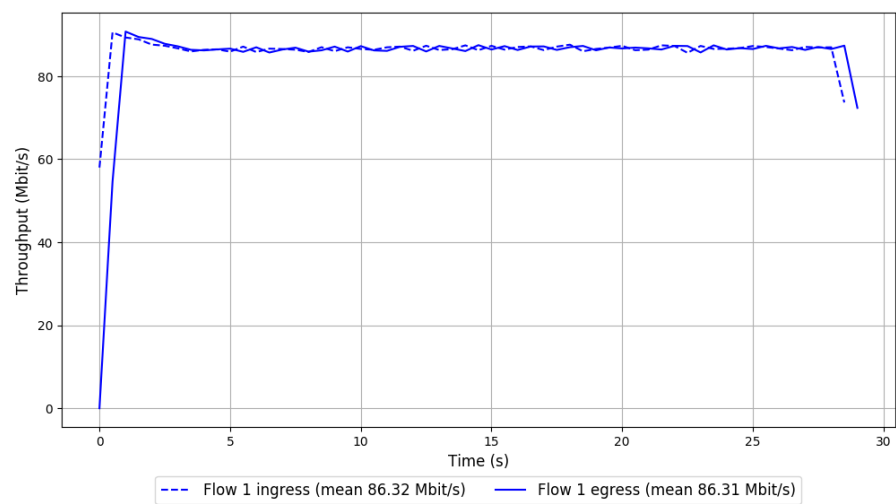
-- Flow 1:

Average throughput: 86.31 Mbit/s

95th percentile per-packet one-way delay: 18.772 ms

Loss rate: 0.09%

Run 1: Report of Indigo-MusesC5 — Data Link



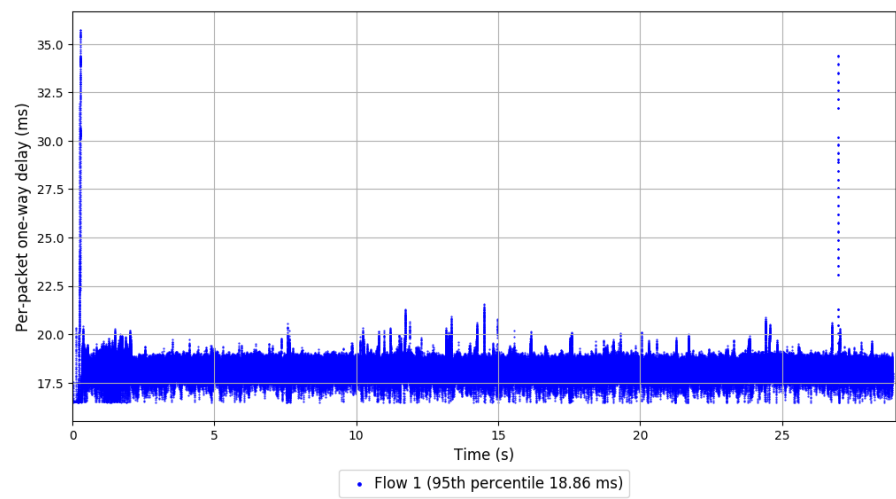
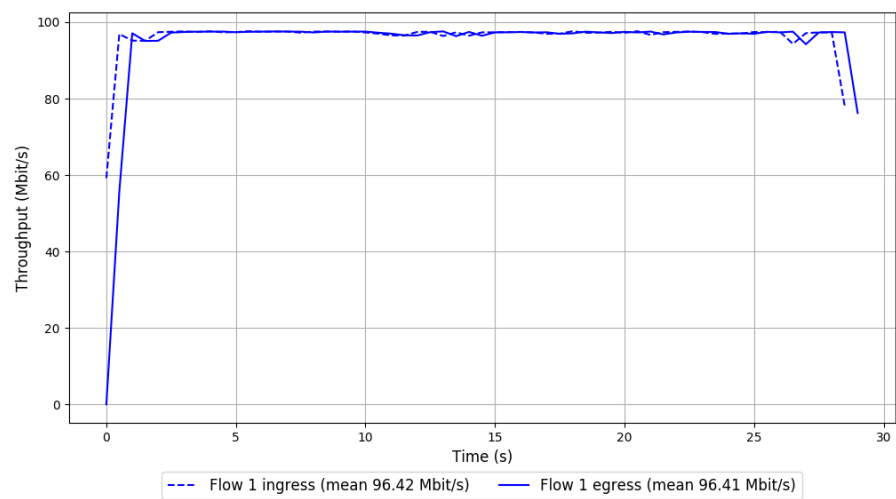


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-02-11 23:11:29  
End at: 2019-02-11 23:11:59  
Local clock offset: 6.137 ms  
Remote clock offset: -4.325 ms

# Below is generated by plot.py at 2019-02-12 00:43:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.41 Mbit/s  
95th percentile per-packet one-way delay: 18.858 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 96.41 Mbit/s  
95th percentile per-packet one-way delay: 18.858 ms  
Loss rate: 0.09%

Run 2: Report of Indigo-MusesC5 — Data Link

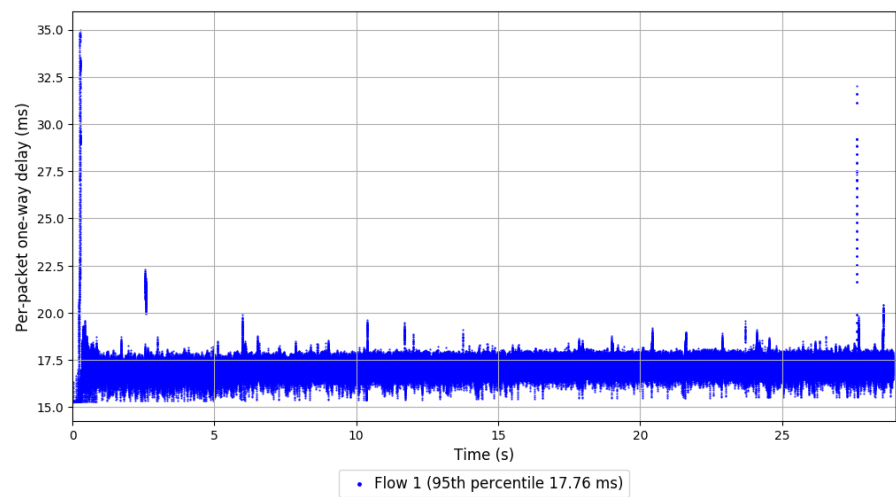
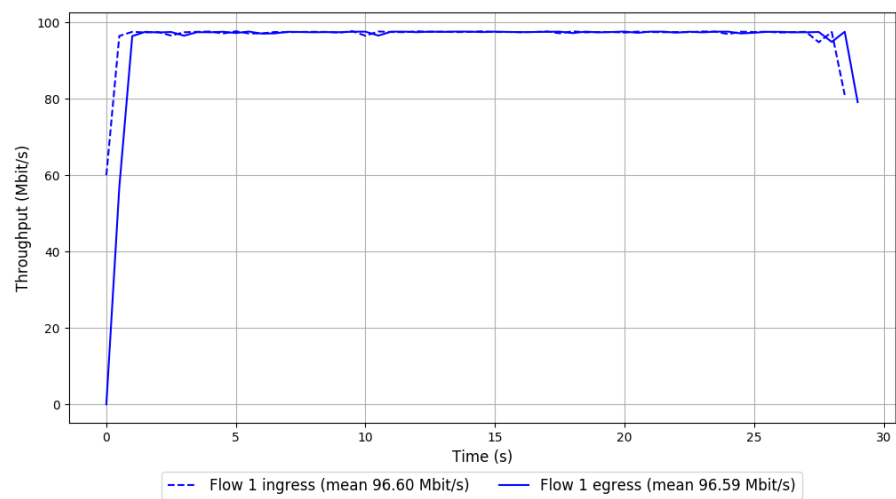


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-02-11 23:36:19  
End at: 2019-02-11 23:36:49  
Local clock offset: 3.621 ms  
Remote clock offset: -5.696 ms

# Below is generated by plot.py at 2019-02-12 00:43:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.59 Mbit/s  
95th percentile per-packet one-way delay: 17.760 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 96.59 Mbit/s  
95th percentile per-packet one-way delay: 17.760 ms  
Loss rate: 0.09%

Run 3: Report of Indigo-MusesC5 — Data Link

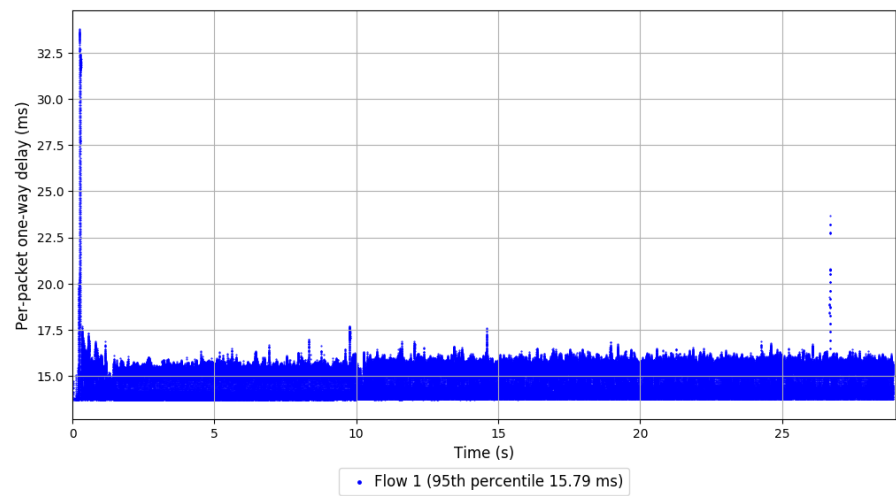
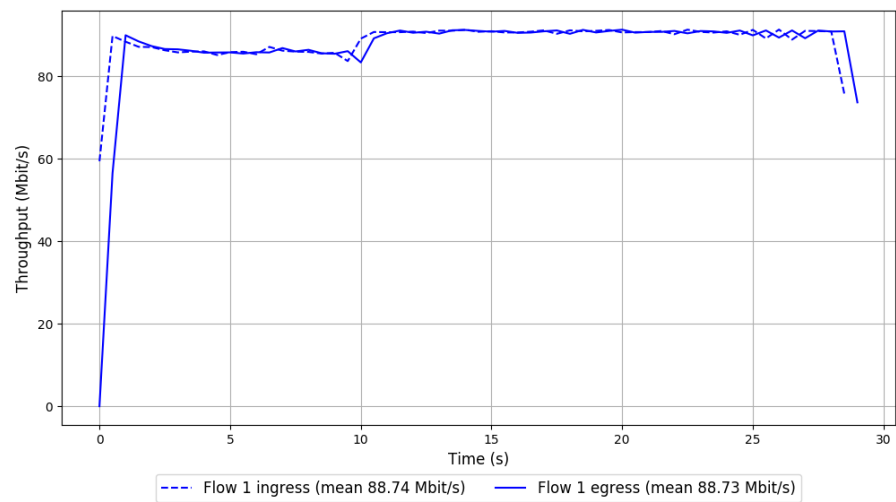


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-02-12 00:01:20  
End at: 2019-02-12 00:01:50  
Local clock offset: -1.971 ms  
Remote clock offset: -4.986 ms

# Below is generated by plot.py at 2019-02-12 00:43:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 88.73 Mbit/s  
95th percentile per-packet one-way delay: 15.793 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 88.73 Mbit/s  
95th percentile per-packet one-way delay: 15.793 ms  
Loss rate: 0.09%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-02-12 00:26:30

End at: 2019-02-12 00:27:00

Local clock offset: -1.014 ms

Remote clock offset: -6.98 ms

# Below is generated by plot.py at 2019-02-12 00:44:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.61 Mbit/s

95th percentile per-packet one-way delay: 19.956 ms

Loss rate: 0.09%

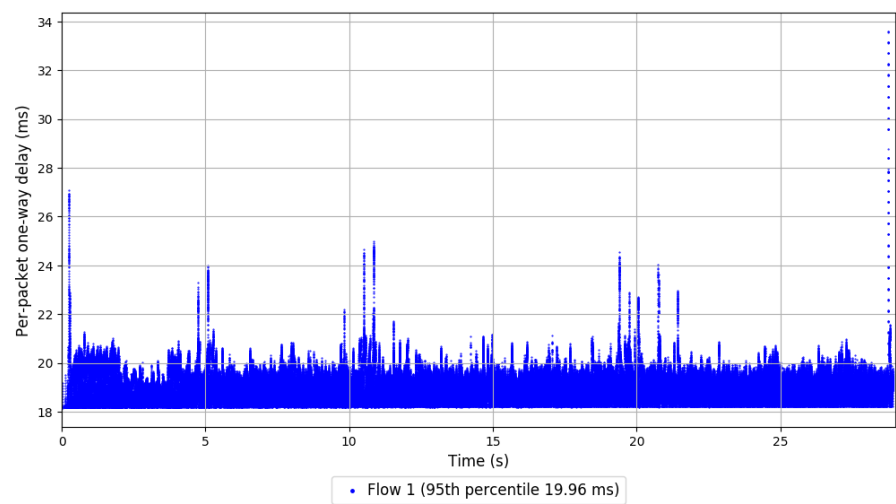
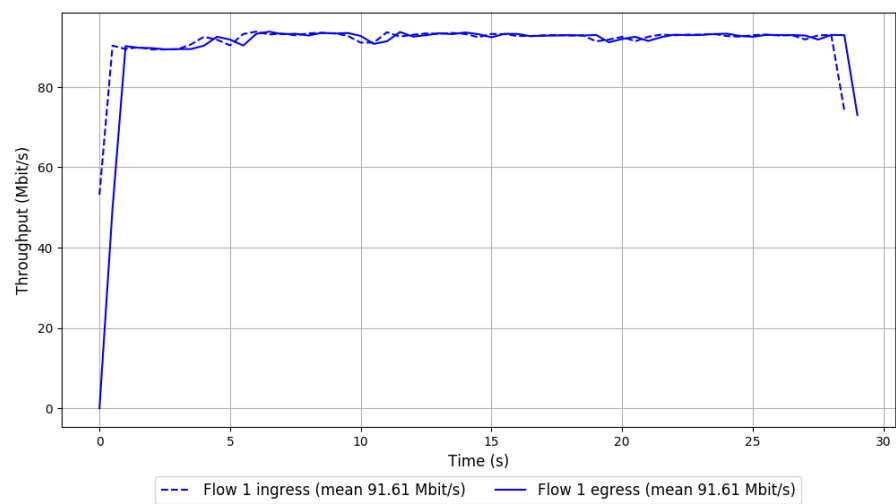
-- Flow 1:

Average throughput: 91.61 Mbit/s

95th percentile per-packet one-way delay: 19.956 ms

Loss rate: 0.09%

Run 5: Report of Indigo-MusesC5 — Data Link





Run 1: Statistics of Indigo-MusesD

Start at: 2019-02-11 22:50:08

End at: 2019-02-11 22:50:38

Local clock offset: 2.75 ms

Remote clock offset: -4.181 ms

# Below is generated by plot.py at 2019-02-12 00:44:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.09 Mbit/s

95th percentile per-packet one-way delay: 17.114 ms

Loss rate: 0.09%

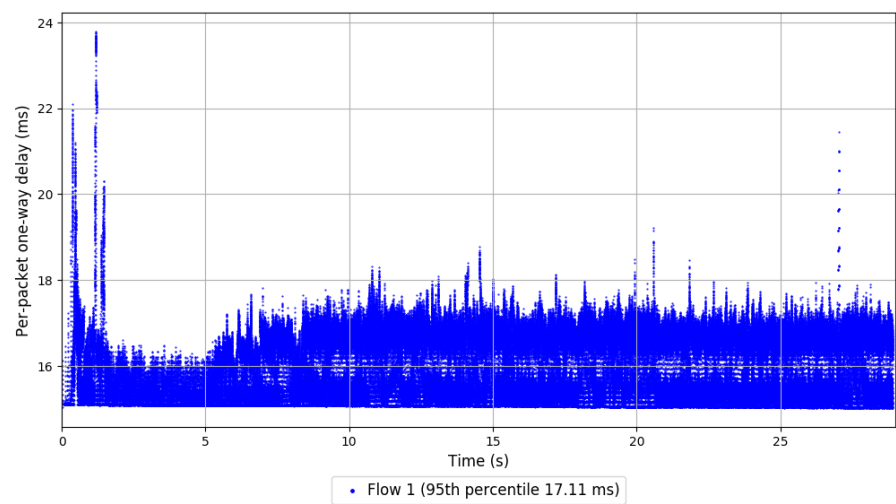
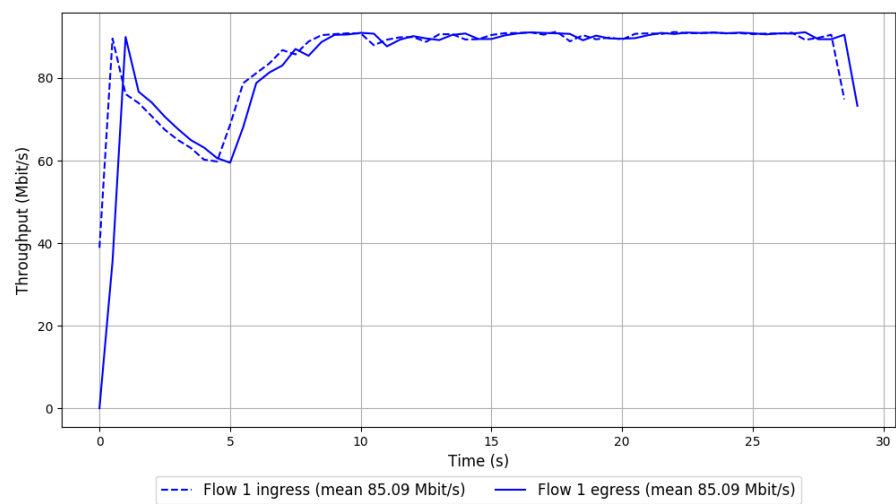
-- Flow 1:

Average throughput: 85.09 Mbit/s

95th percentile per-packet one-way delay: 17.114 ms

Loss rate: 0.09%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-02-11 23:15:02

End at: 2019-02-11 23:15:32

Local clock offset: 6.435 ms

Remote clock offset: -7.213 ms

# Below is generated by plot.py at 2019-02-12 00:44:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.03 Mbit/s

95th percentile per-packet one-way delay: 22.079 ms

Loss rate: 0.10%

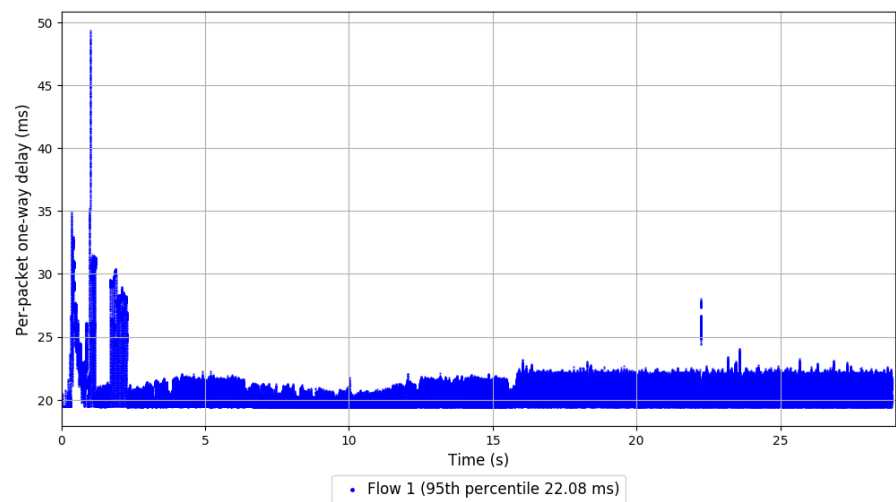
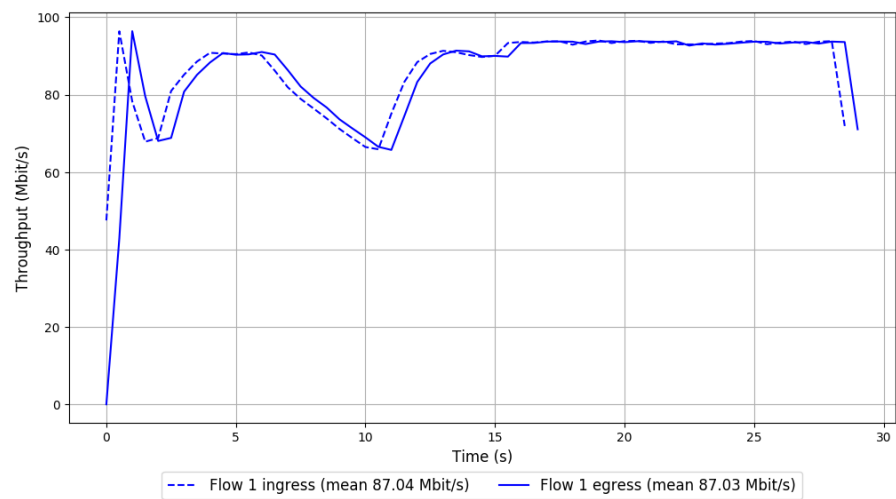
-- Flow 1:

Average throughput: 87.03 Mbit/s

95th percentile per-packet one-way delay: 22.079 ms

Loss rate: 0.10%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-02-11 23:39:55

End at: 2019-02-11 23:40:25

Local clock offset: 3.915 ms

Remote clock offset: -5.927 ms

# Below is generated by plot.py at 2019-02-12 00:44:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.63 Mbit/s

95th percentile per-packet one-way delay: 20.093 ms

Loss rate: 0.10%

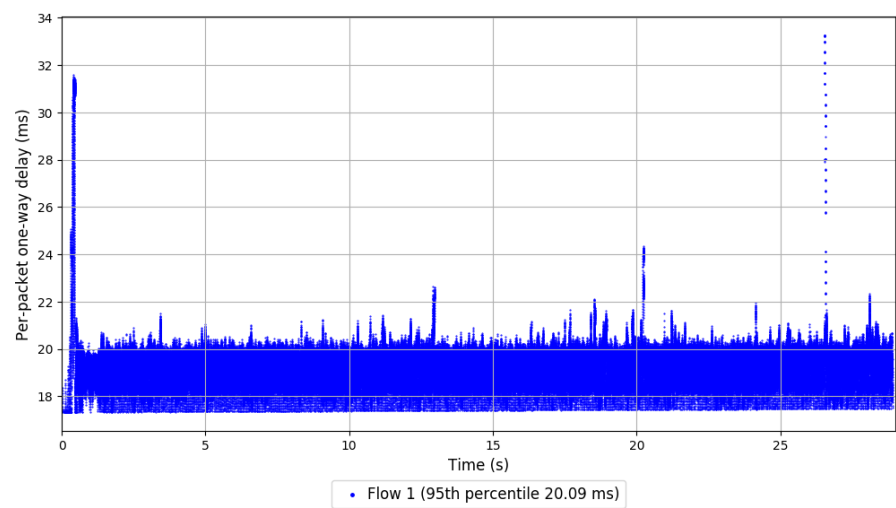
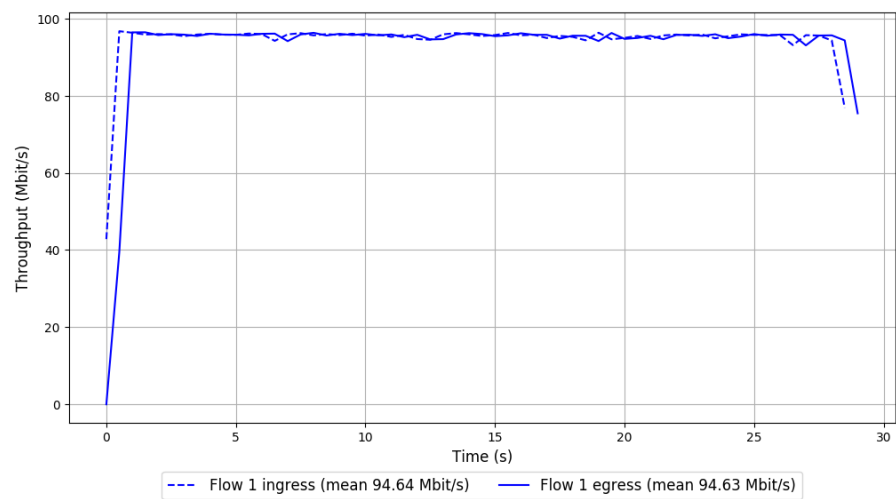
-- Flow 1:

Average throughput: 94.63 Mbit/s

95th percentile per-packet one-way delay: 20.093 ms

Loss rate: 0.10%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-02-12 00:04:53

End at: 2019-02-12 00:05:23

Local clock offset: 0.998 ms

Remote clock offset: -7.198 ms

# Below is generated by plot.py at 2019-02-12 00:44:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.73 Mbit/s

95th percentile per-packet one-way delay: 21.223 ms

Loss rate: 0.06%

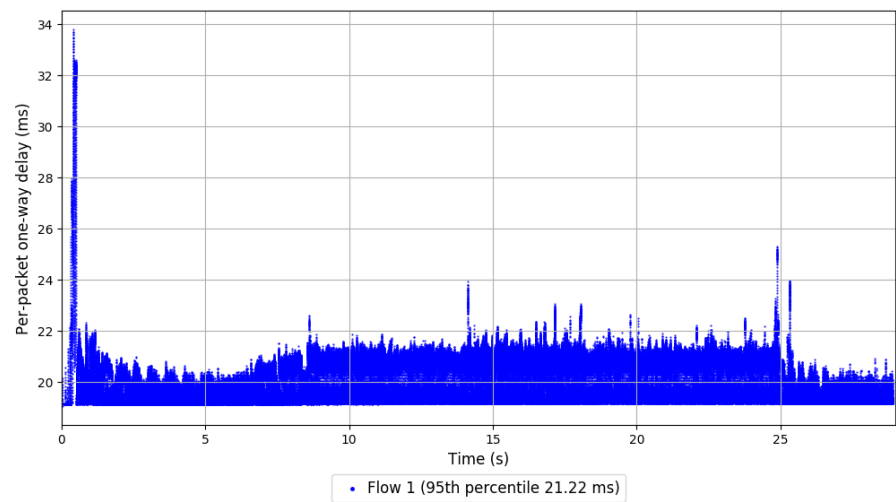
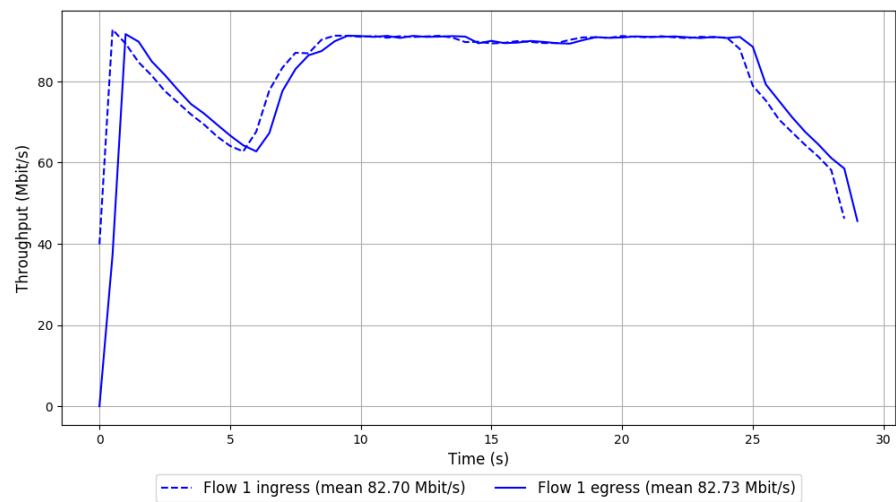
-- Flow 1:

Average throughput: 82.73 Mbit/s

95th percentile per-packet one-way delay: 21.223 ms

Loss rate: 0.06%

Run 4: Report of Indigo-MusesD — Data Link



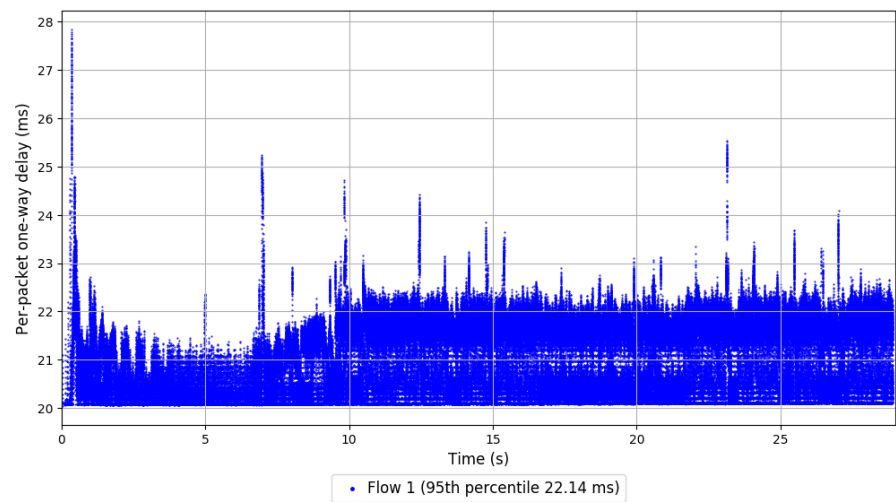
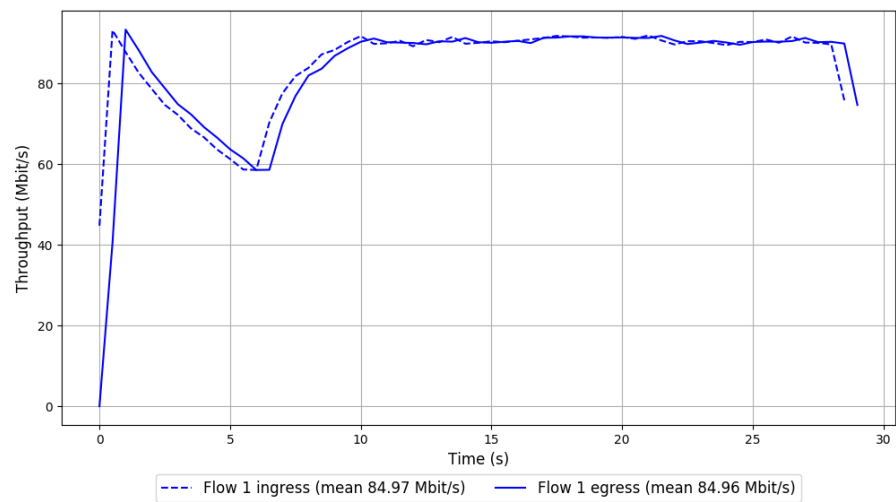


Run 5: Statistics of Indigo-MusesD

Start at: 2019-02-12 00:30:08  
End at: 2019-02-12 00:30:38  
Local clock offset: -0.409 ms  
Remote clock offset: -8.029 ms

# Below is generated by plot.py at 2019-02-12 00:44:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.96 Mbit/s  
95th percentile per-packet one-way delay: 22.139 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 84.96 Mbit/s  
95th percentile per-packet one-way delay: 22.139 ms  
Loss rate: 0.10%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-02-11 22:53:44

End at: 2019-02-11 22:54:14

Local clock offset: 4.257 ms

Remote clock offset: -3.856 ms

# Below is generated by plot.py at 2019-02-12 00:44:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.39 Mbit/s

95th percentile per-packet one-way delay: 19.303 ms

Loss rate: 0.09%

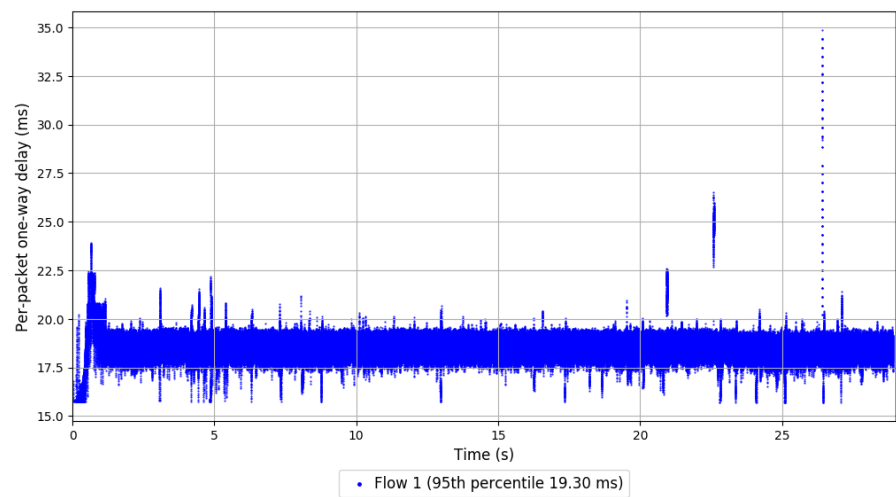
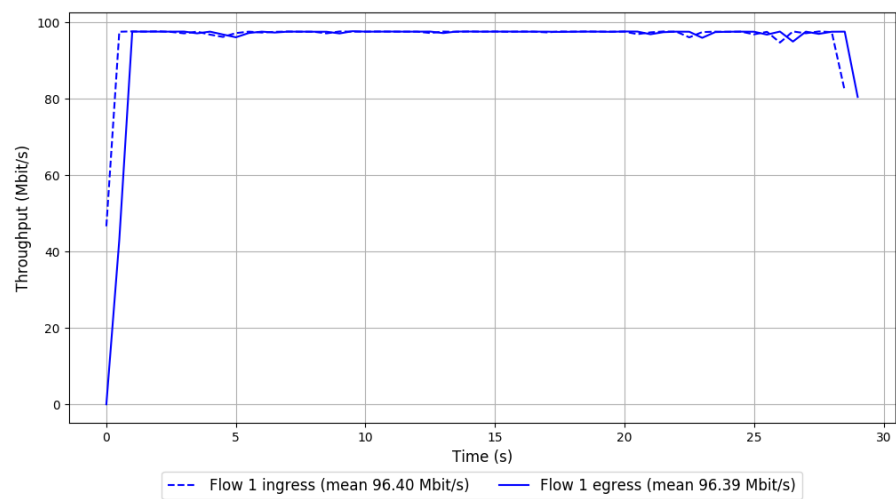
-- Flow 1:

Average throughput: 96.39 Mbit/s

95th percentile per-packet one-way delay: 19.303 ms

Loss rate: 0.09%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-02-11 23:18:39

End at: 2019-02-11 23:19:09

Local clock offset: 6.49 ms

Remote clock offset: -5.45 ms

# Below is generated by plot.py at 2019-02-12 00:44:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.37 Mbit/s

95th percentile per-packet one-way delay: 23.134 ms

Loss rate: 0.10%

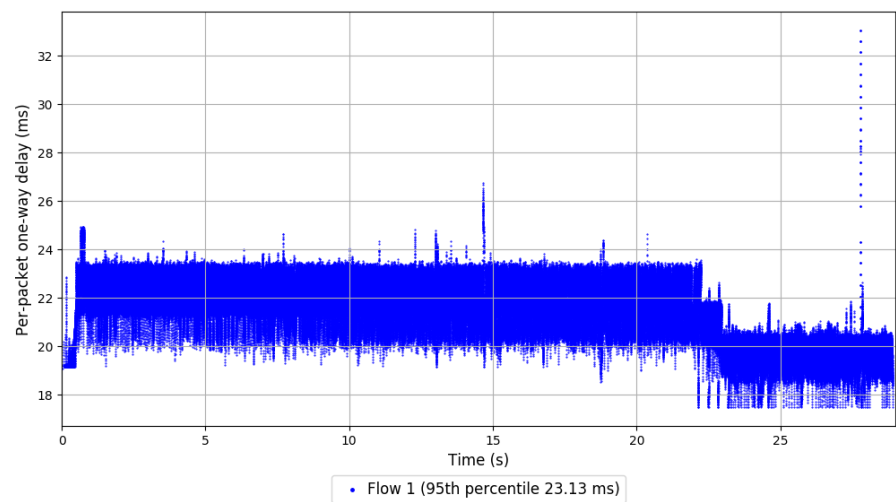
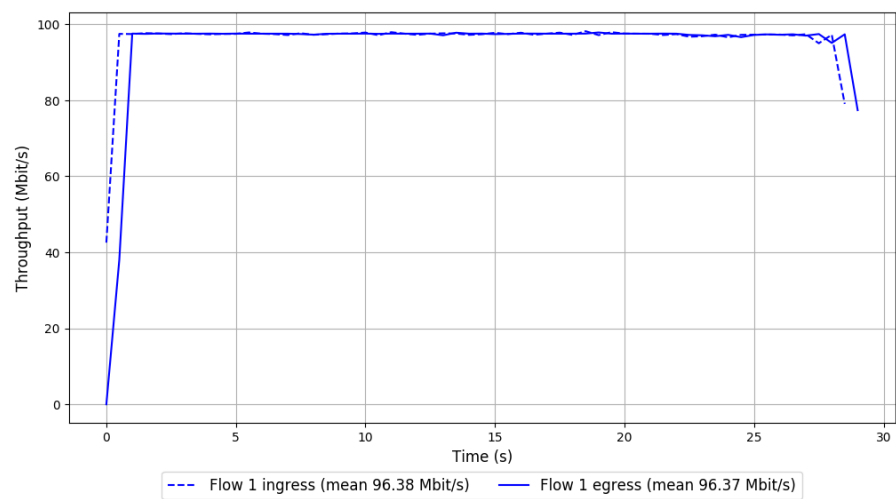
-- Flow 1:

Average throughput: 96.37 Mbit/s

95th percentile per-packet one-way delay: 23.134 ms

Loss rate: 0.10%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-02-11 23:43:35

End at: 2019-02-11 23:44:05

Local clock offset: -4.803 ms

Remote clock offset: -11.085 ms

# Below is generated by plot.py at 2019-02-12 00:45:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.38 Mbit/s

95th percentile per-packet one-way delay: 18.505 ms

Loss rate: 0.09%

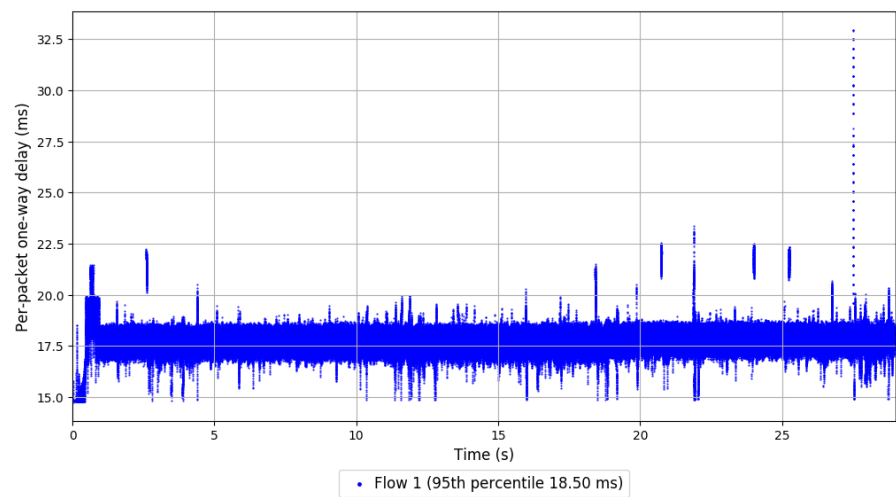
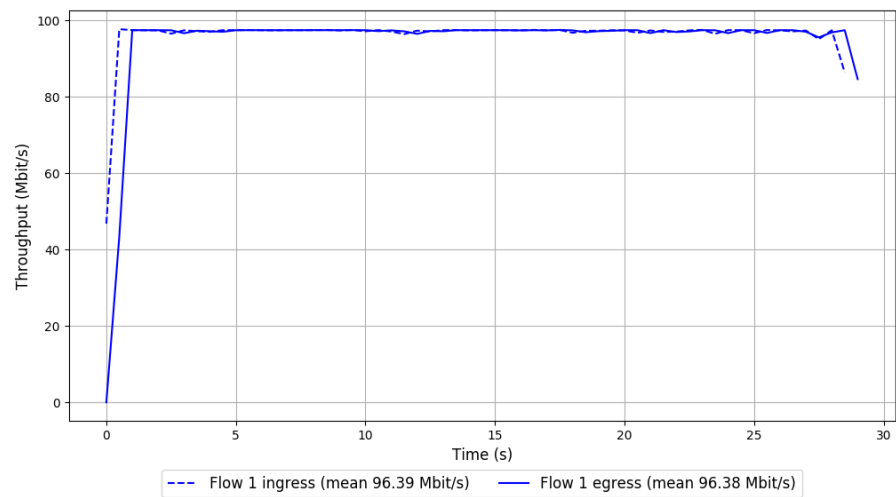
-- Flow 1:

Average throughput: 96.38 Mbit/s

95th percentile per-packet one-way delay: 18.505 ms

Loss rate: 0.09%

Run 3: Report of Indigo-MusesT — Data Link





Run 4: Statistics of Indigo-MusesT

Start at: 2019-02-12 00:08:32

End at: 2019-02-12 00:09:02

Local clock offset: -1.464 ms

Remote clock offset: -7.491 ms

# Below is generated by plot.py at 2019-02-12 00:45:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.11 Mbit/s

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

Loss rate: 0.10%

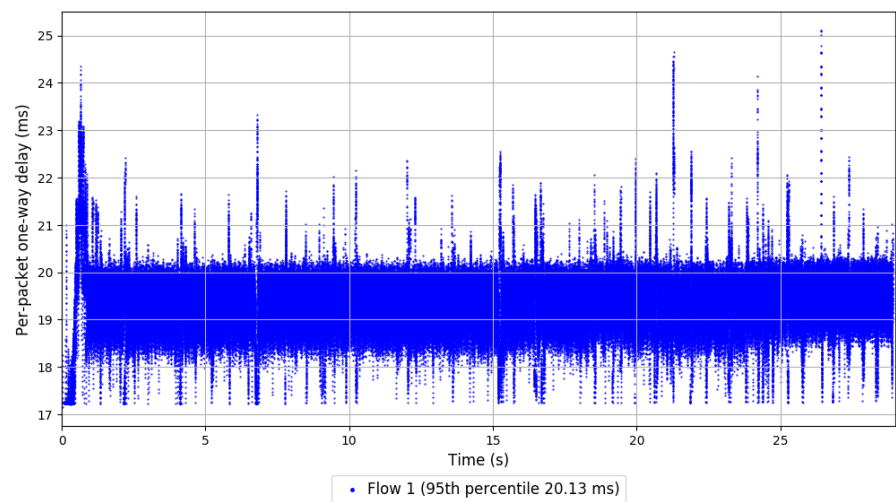
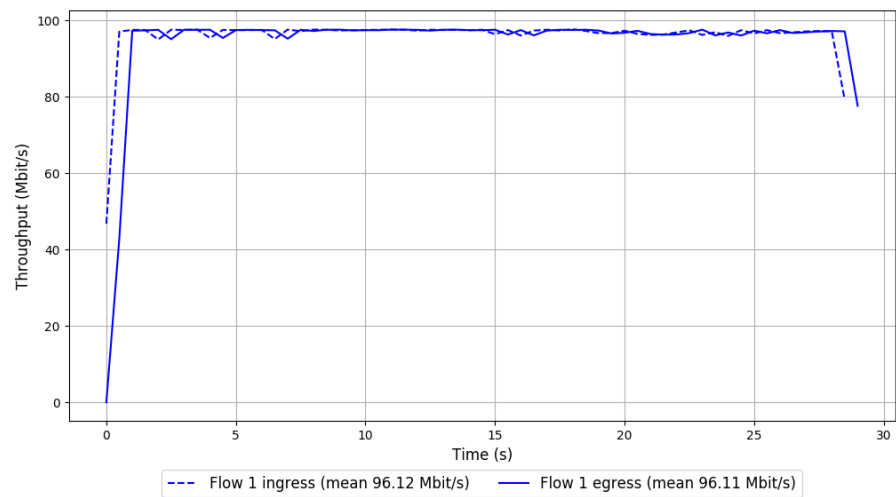
-- Flow 1:

Average throughput: 96.11 Mbit/s

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

Loss rate: 0.10%

Run 4: Report of Indigo-MusesT — Data Link

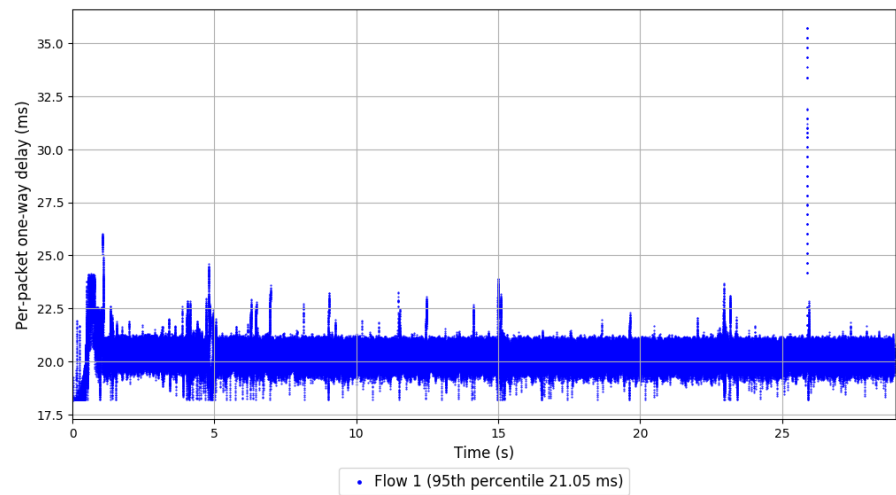
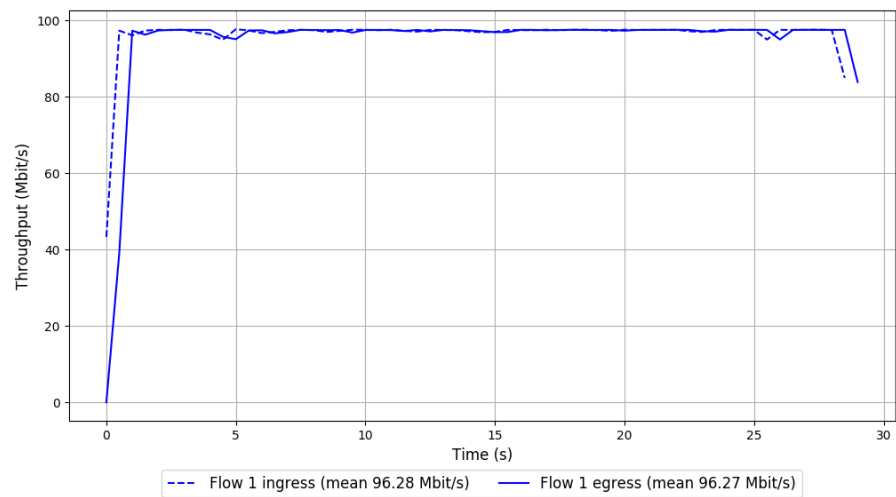


Run 5: Statistics of Indigo-MusesT

Start at: 2019-02-12 00:33:48  
End at: 2019-02-12 00:34:18  
Local clock offset: -0.159 ms  
Remote clock offset: -5.688 ms

# Below is generated by plot.py at 2019-02-12 00:45:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.27 Mbit/s  
95th percentile per-packet one-way delay: 21.049 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 96.27 Mbit/s  
95th percentile per-packet one-way delay: 21.049 ms  
Loss rate: 0.09%

Run 5: Report of Indigo-MusesT — Data Link

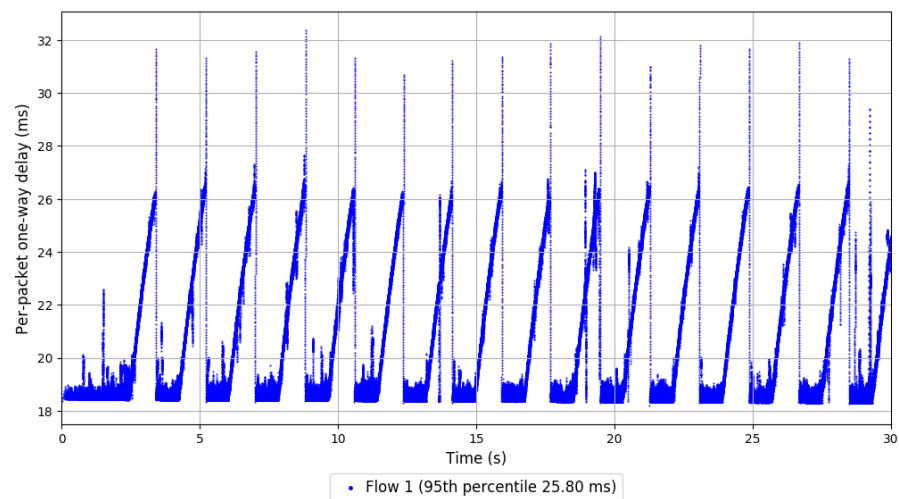
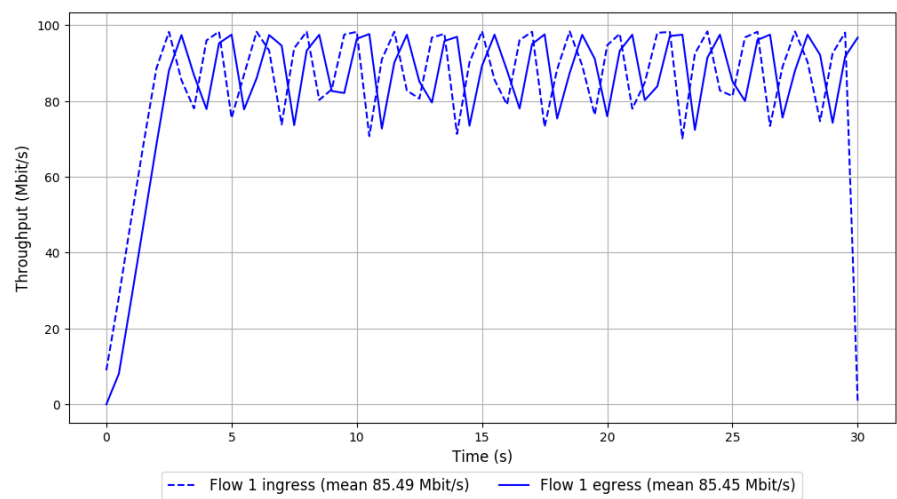


Run 1: Statistics of LEDBAT

Start at: 2019-02-11 22:42:57  
End at: 2019-02-11 22:43:27  
Local clock offset: 5.761 ms  
Remote clock offset: -2.986 ms

# Below is generated by plot.py at 2019-02-12 00:45:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.45 Mbit/s  
95th percentile per-packet one-way delay: 25.800 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 85.45 Mbit/s  
95th percentile per-packet one-way delay: 25.800 ms  
Loss rate: 0.12%

Run 1: Report of LEDBAT — Data Link

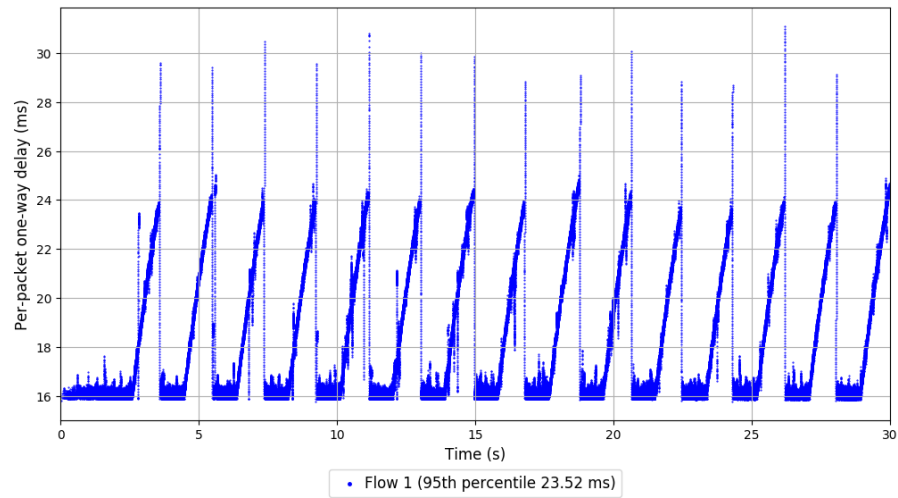
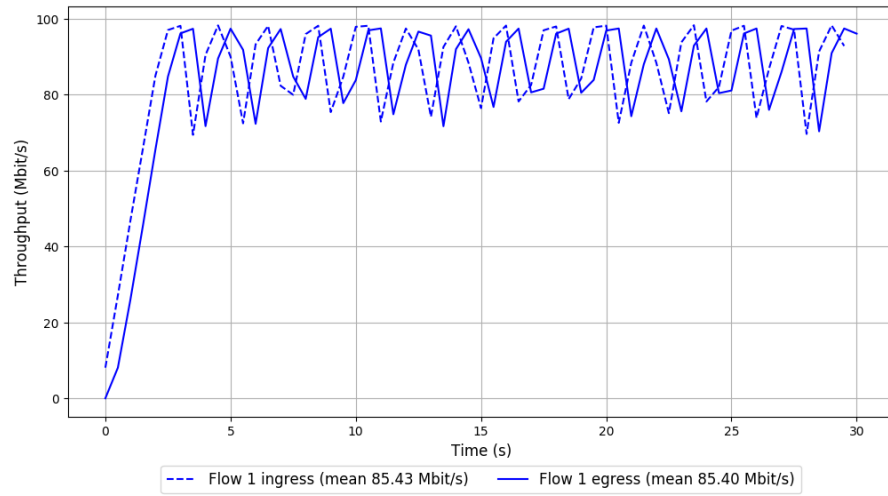


Run 2: Statistics of LEDBAT

Start at: 2019-02-11 23:07:45  
End at: 2019-02-11 23:08:15  
Local clock offset: 5.962 ms  
Remote clock offset: -3.657 ms

# Below is generated by plot.py at 2019-02-12 00:45:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.40 Mbit/s  
95th percentile per-packet one-way delay: 23.520 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 85.40 Mbit/s  
95th percentile per-packet one-way delay: 23.520 ms  
Loss rate: 0.02%

## Run 2: Report of LEDBAT — Data Link



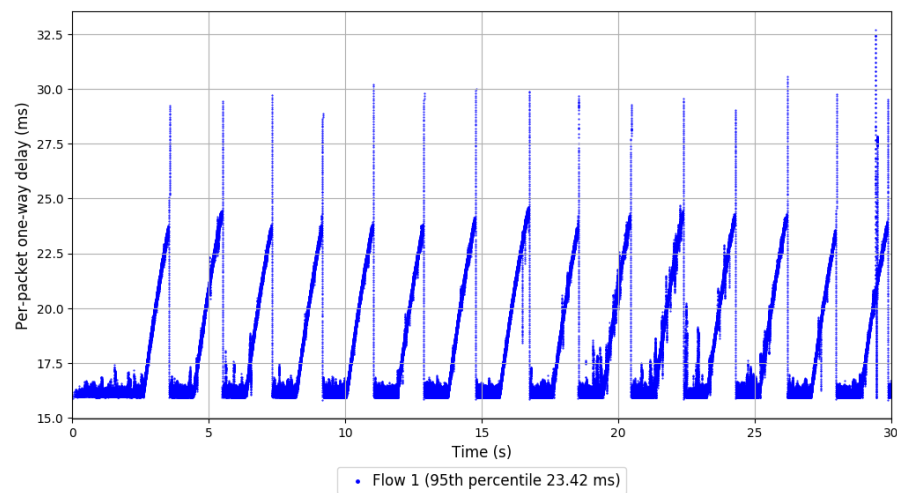
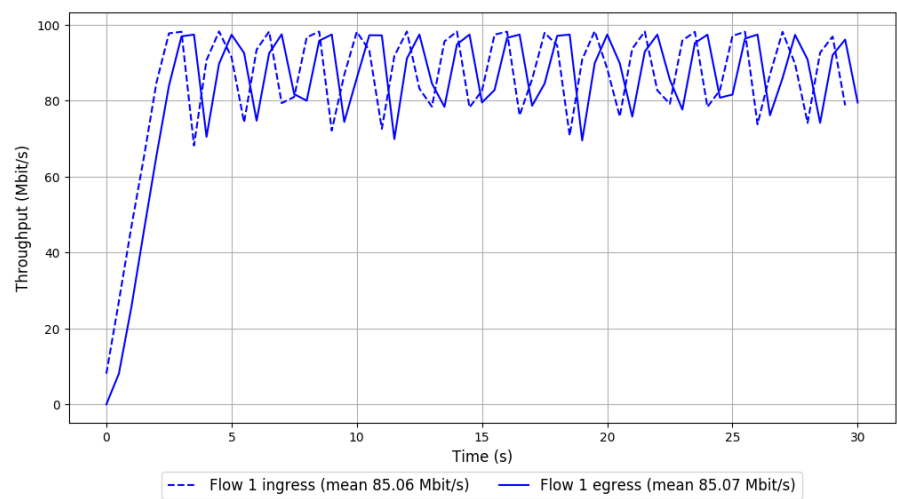


Run 3: Statistics of LEDBAT

Start at: 2019-02-11 23:32:38  
End at: 2019-02-11 23:33:08  
Local clock offset: 6.215 ms  
Remote clock offset: -5.128 ms

# Below is generated by plot.py at 2019-02-12 00:45:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.07 Mbit/s  
95th percentile per-packet one-way delay: 23.422 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 85.07 Mbit/s  
95th percentile per-packet one-way delay: 23.422 ms  
Loss rate: 0.07%

Run 3: Report of LEDBAT — Data Link

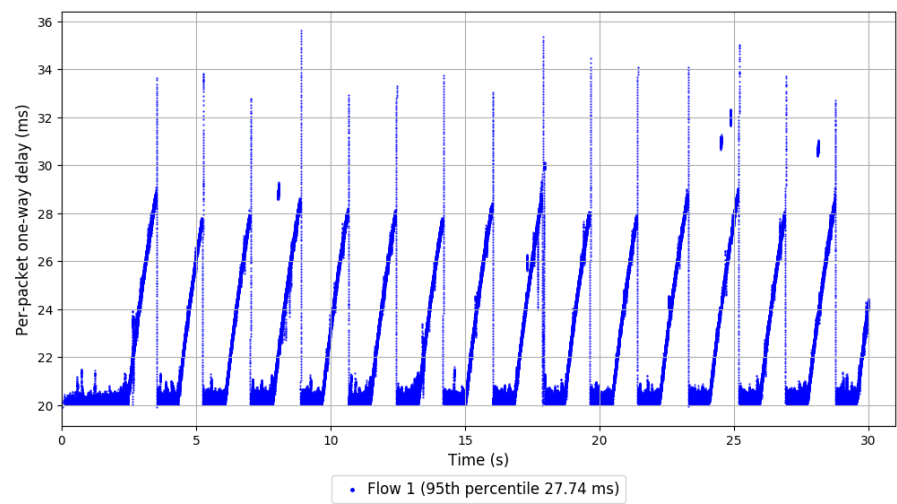
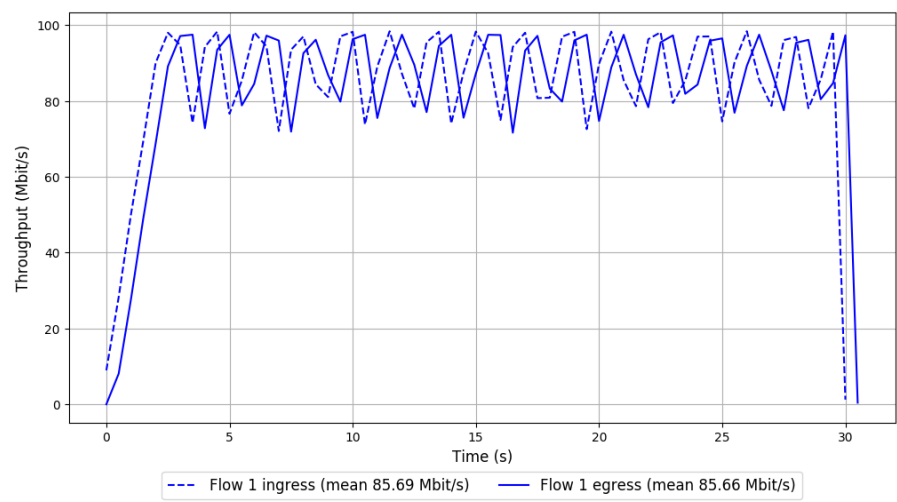


Run 4: Statistics of LEDBAT

Start at: 2019-02-11 23:57:43  
End at: 2019-02-11 23:58:13  
Local clock offset: 2.483 ms  
Remote clock offset: -7.086 ms

# Below is generated by plot.py at 2019-02-12 00:45:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.66 Mbit/s  
95th percentile per-packet one-way delay: 27.740 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 85.66 Mbit/s  
95th percentile per-packet one-way delay: 27.740 ms  
Loss rate: 0.12%

Run 4: Report of LEDBAT — Data Link

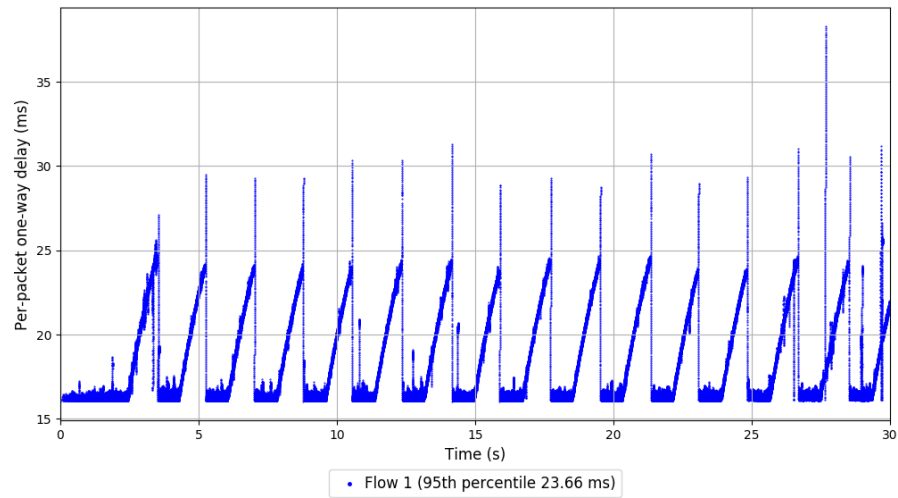
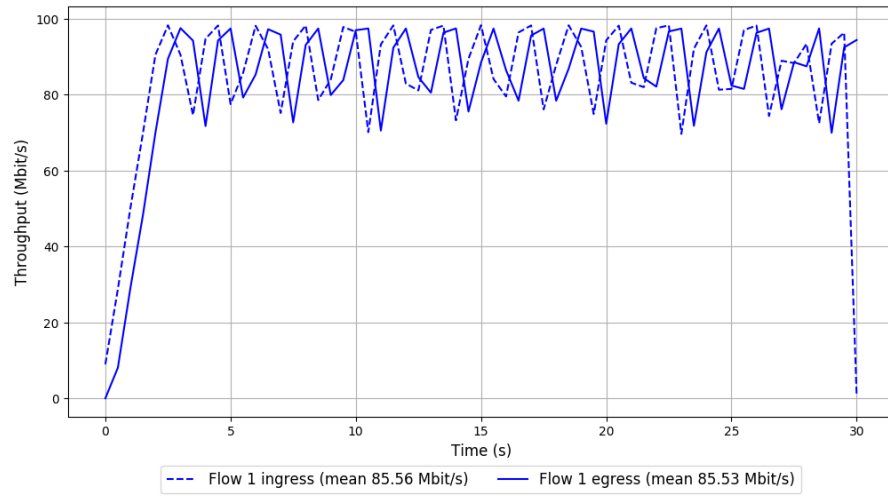


Run 5: Statistics of LEDBAT

Start at: 2019-02-12 00:22:45  
End at: 2019-02-12 00:23:15  
Local clock offset: -1.74 ms  
Remote clock offset: -5.836 ms

# Below is generated by plot.py at 2019-02-12 00:45:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.53 Mbit/s  
95th percentile per-packet one-way delay: 23.664 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 85.53 Mbit/s  
95th percentile per-packet one-way delay: 23.664 ms  
Loss rate: 0.12%

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



Run 1: Statistics of PCC-Allegro

Start at: 2019-02-11 22:32:14

End at: 2019-02-11 22:32:44

Local clock offset: 0.208 ms

Remote clock offset: -4.347 ms

# Below is generated by plot.py at 2019-02-12 00:46:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.31 Mbit/s

95th percentile per-packet one-way delay: 20.229 ms

Loss rate: 0.10%

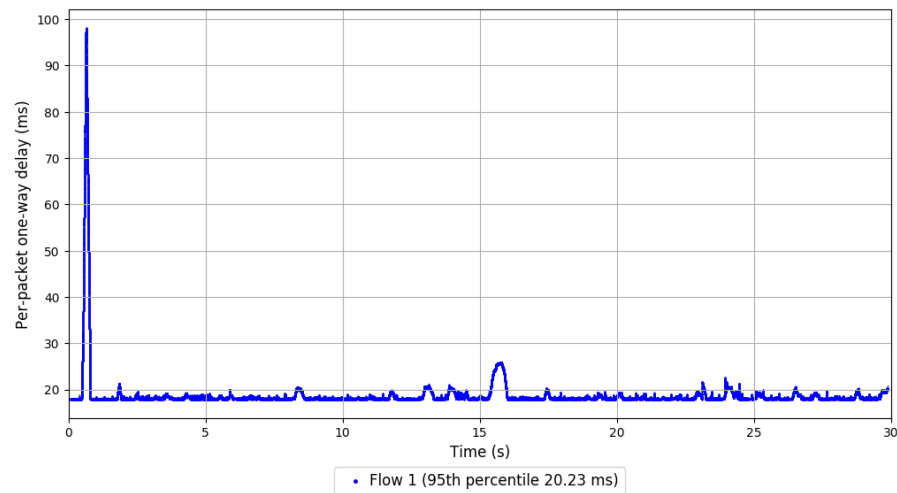
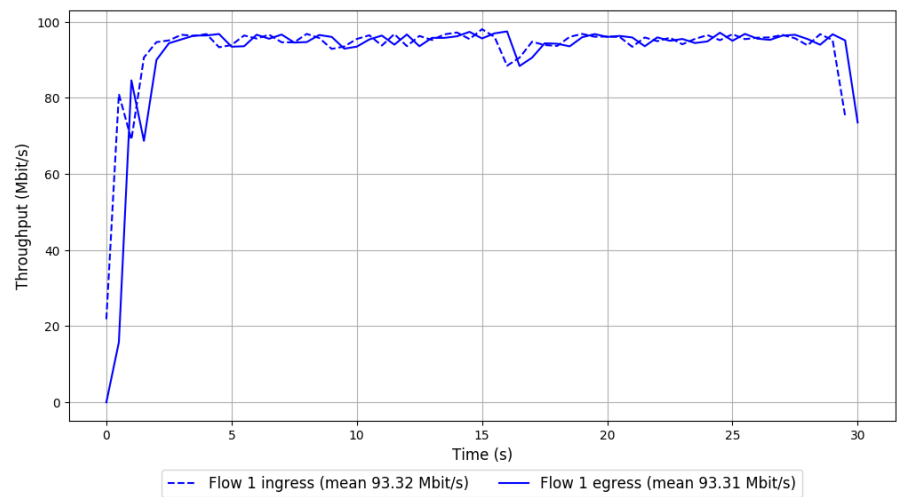
-- Flow 1:

Average throughput: 93.31 Mbit/s

95th percentile per-packet one-way delay: 20.229 ms

Loss rate: 0.10%

Run 1: Report of PCC-Allegro — Data Link





Run 2: Statistics of PCC-Allegro

Start at: 2019-02-11 22:57:12

End at: 2019-02-11 22:57:42

Local clock offset: 6.589 ms

Remote clock offset: -3.248 ms

# Below is generated by plot.py at 2019-02-12 00:46:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.47 Mbit/s

95th percentile per-packet one-way delay: 19.068 ms

Loss rate: 0.09%

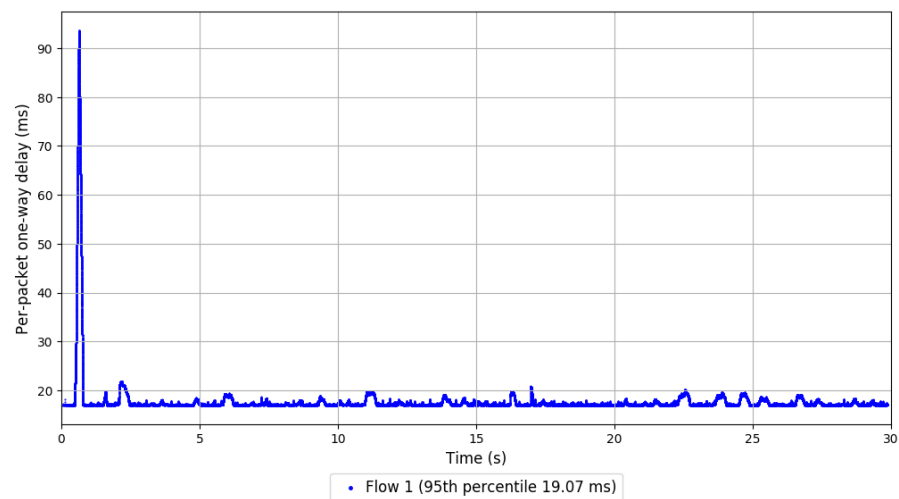
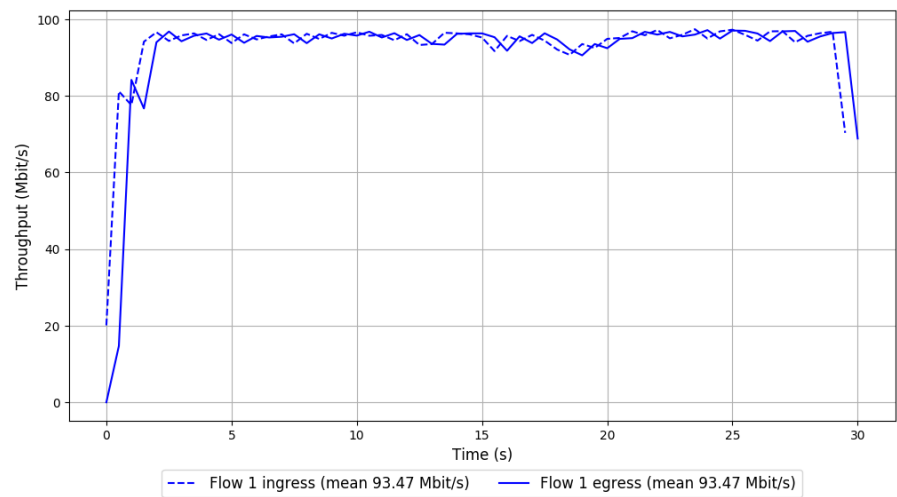
-- Flow 1:

Average throughput: 93.47 Mbit/s

95th percentile per-packet one-way delay: 19.068 ms

Loss rate: 0.09%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-02-11 23:22:05

End at: 2019-02-11 23:22:35

Local clock offset: 7.316 ms

Remote clock offset: -5.833 ms

# Below is generated by plot.py at 2019-02-12 00:46:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.17 Mbit/s

95th percentile per-packet one-way delay: 20.594 ms

Loss rate: 0.09%

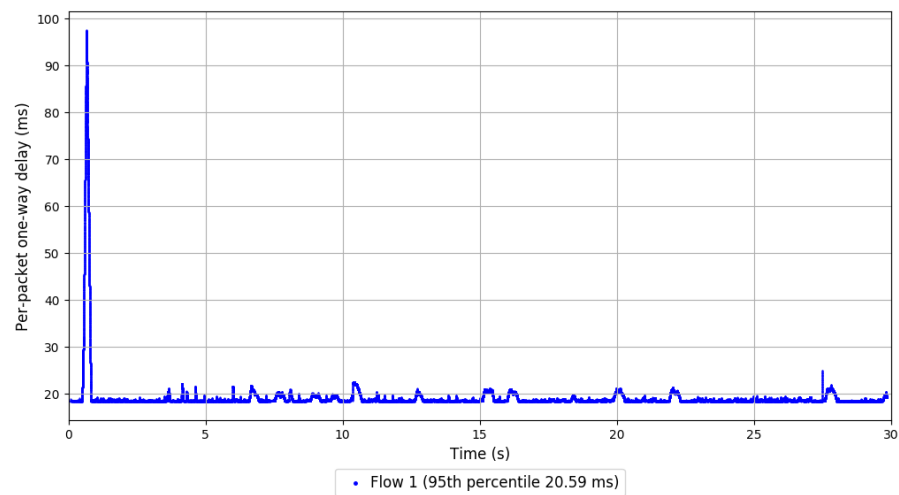
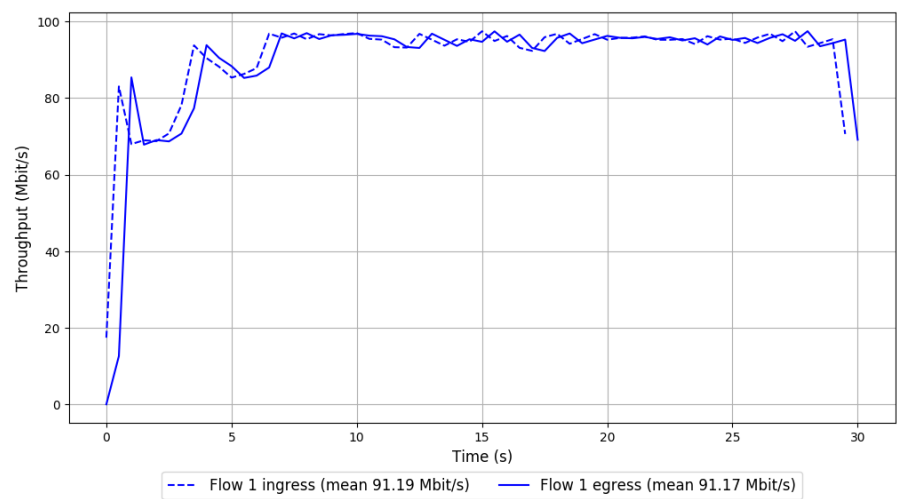
-- Flow 1:

Average throughput: 91.17 Mbit/s

95th percentile per-packet one-way delay: 20.594 ms

Loss rate: 0.09%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-02-11 23:47:07

End at: 2019-02-11 23:47:37

Local clock offset: 0.515 ms

Remote clock offset: -6.264 ms

# Below is generated by plot.py at 2019-02-12 00:46:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.40 Mbit/s

95th percentile per-packet one-way delay: 18.349 ms

Loss rate: 0.10%

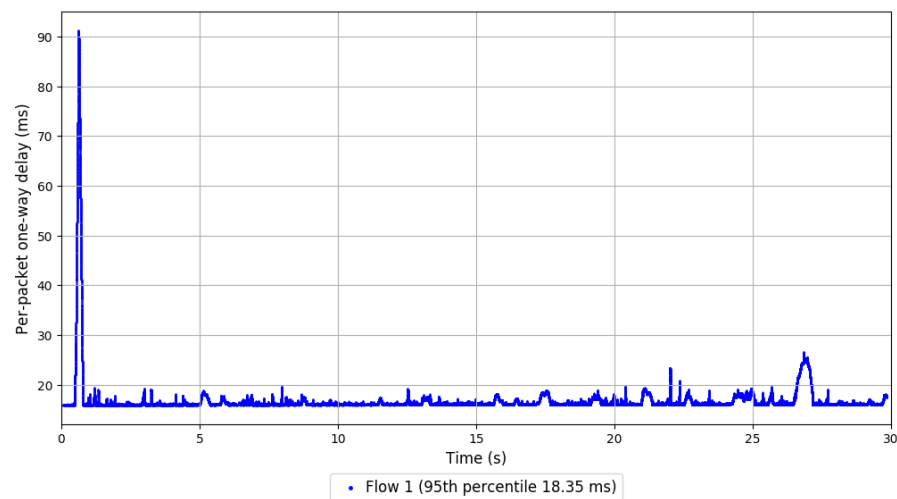
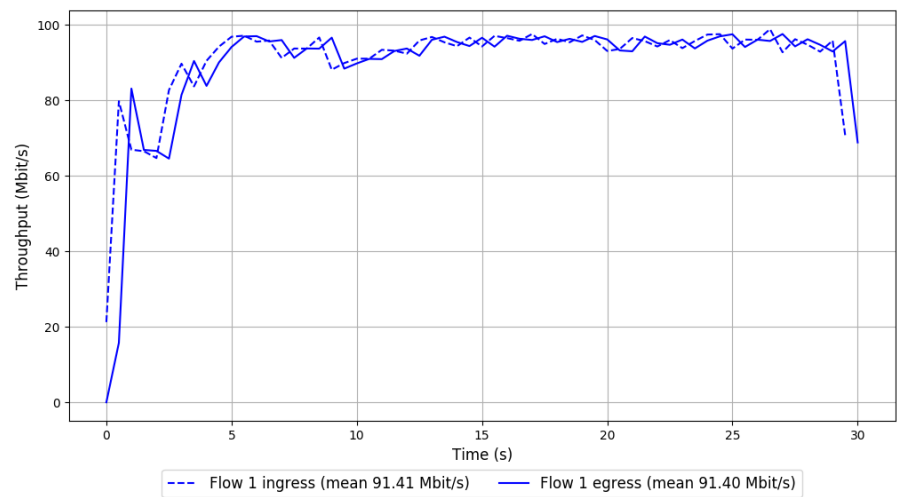
-- Flow 1:

Average throughput: 91.40 Mbit/s

95th percentile per-packet one-way delay: 18.349 ms

Loss rate: 0.10%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-02-12 00:12:03

End at: 2019-02-12 00:12:33

Local clock offset: -2.612 ms

Remote clock offset: -7.025 ms

# Below is generated by plot.py at 2019-02-12 00:46:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.62 Mbit/s

95th percentile per-packet one-way delay: 18.519 ms

Loss rate: 0.10%

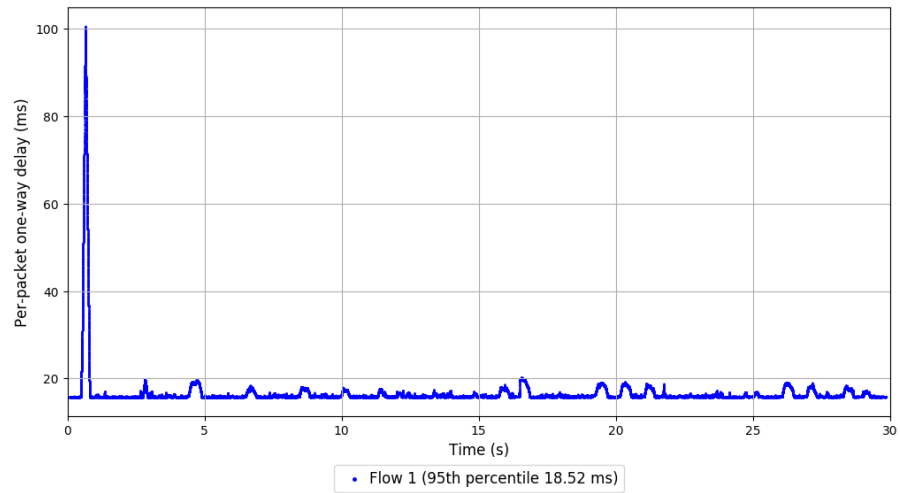
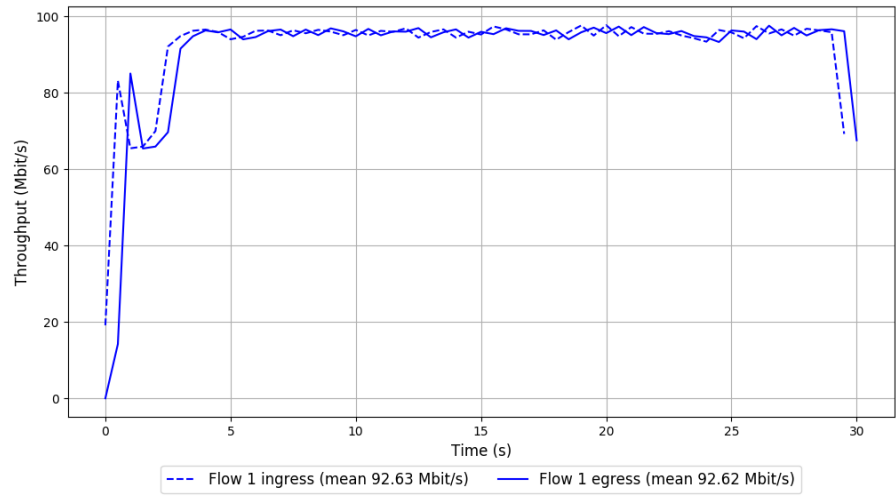
-- Flow 1:

Average throughput: 92.62 Mbit/s

95th percentile per-packet one-way delay: 18.519 ms

Loss rate: 0.10%

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



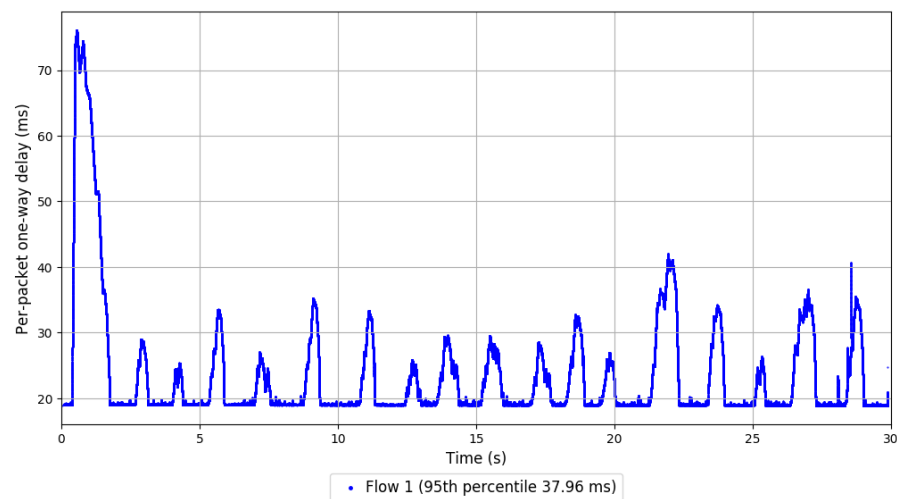
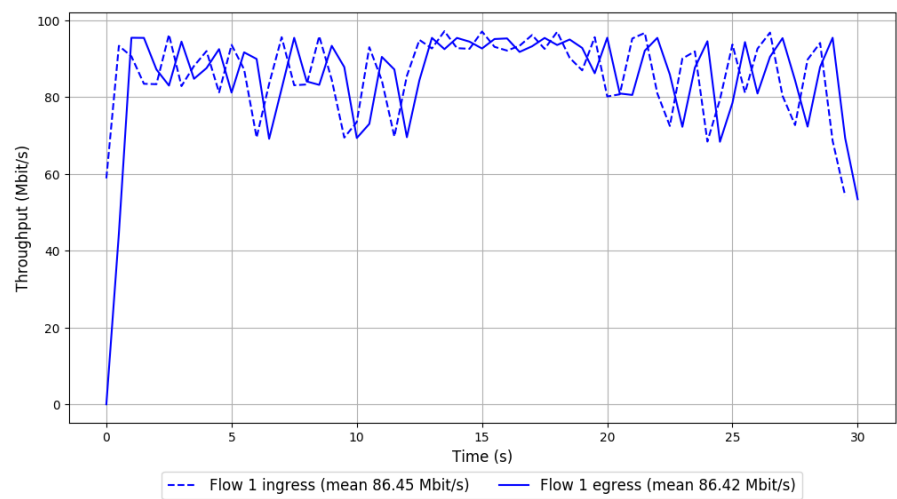


Run 1: Statistics of PCC-Expr

Start at: 2019-02-11 22:45:21  
End at: 2019-02-11 22:45:51  
Local clock offset: 5.34 ms  
Remote clock offset: -4.608 ms

# Below is generated by plot.py at 2019-02-12 00:47:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.42 Mbit/s  
95th percentile per-packet one-way delay: 37.956 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 86.42 Mbit/s  
95th percentile per-packet one-way delay: 37.956 ms  
Loss rate: 0.09%

Run 1: Report of PCC-Expr — Data Link

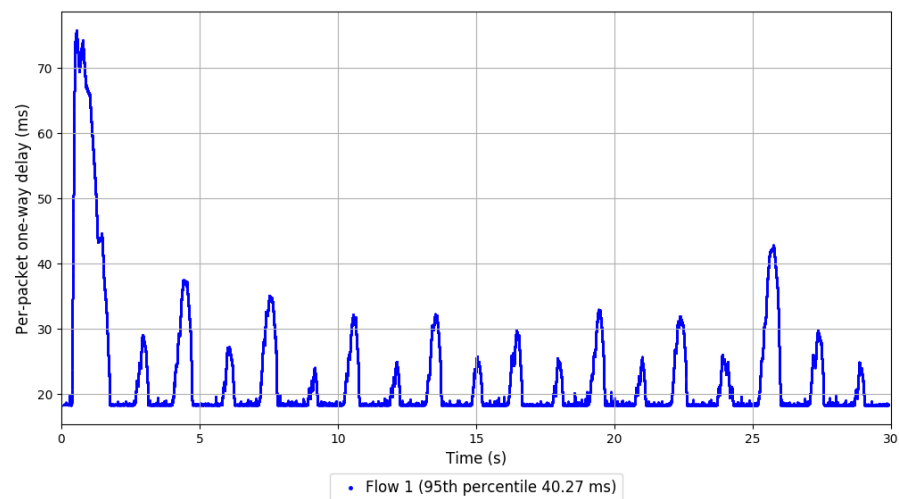
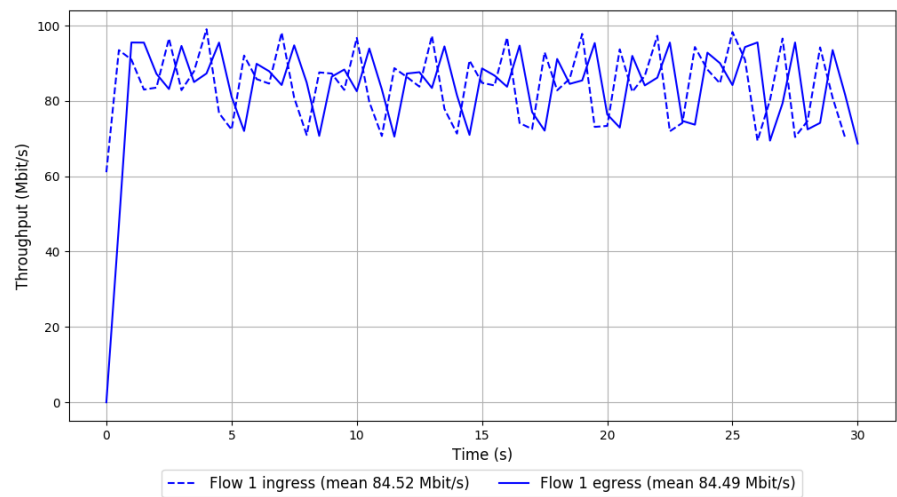


Run 2: Statistics of PCC-Expr

Start at: 2019-02-11 23:10:10  
End at: 2019-02-11 23:10:40  
Local clock offset: 6.928 ms  
Remote clock offset: -5.353 ms

# Below is generated by plot.py at 2019-02-12 00:47:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.49 Mbit/s  
95th percentile per-packet one-way delay: 40.275 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 84.49 Mbit/s  
95th percentile per-packet one-way delay: 40.275 ms  
Loss rate: 0.11%

Run 2: Report of PCC-Expr — Data Link

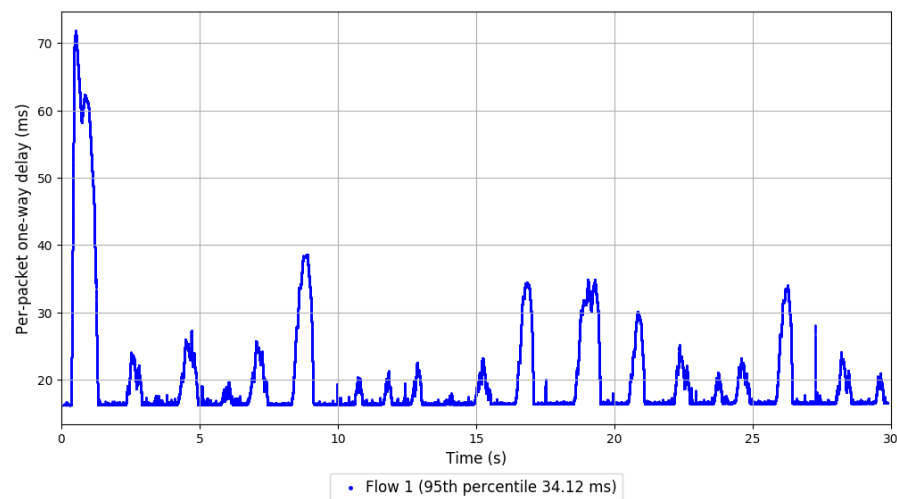
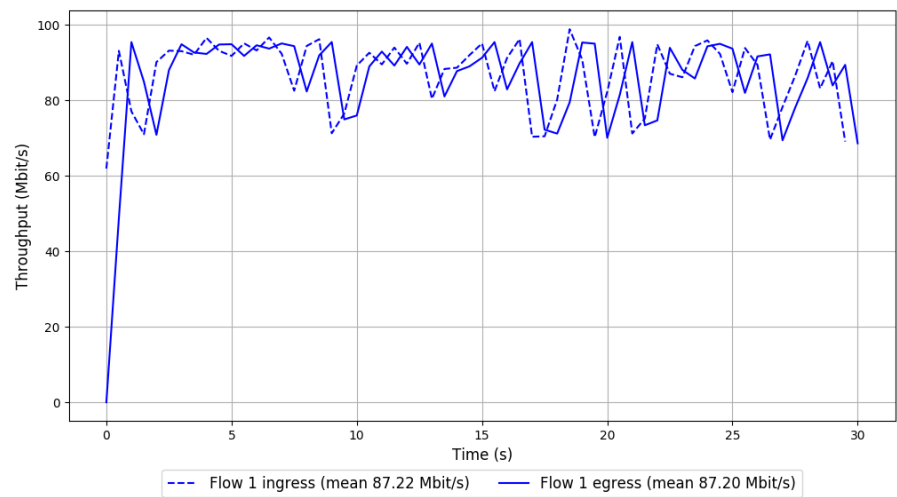


Run 3: Statistics of PCC-Expr

Start at: 2019-02-11 23:35:03  
End at: 2019-02-11 23:35:33  
Local clock offset: 5.245 ms  
Remote clock offset: -5.755 ms

# Below is generated by plot.py at 2019-02-12 00:47:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.20 Mbit/s  
95th percentile per-packet one-way delay: 34.122 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 87.20 Mbit/s  
95th percentile per-packet one-way delay: 34.122 ms  
Loss rate: 0.10%

Run 3: Report of PCC-Expr — Data Link

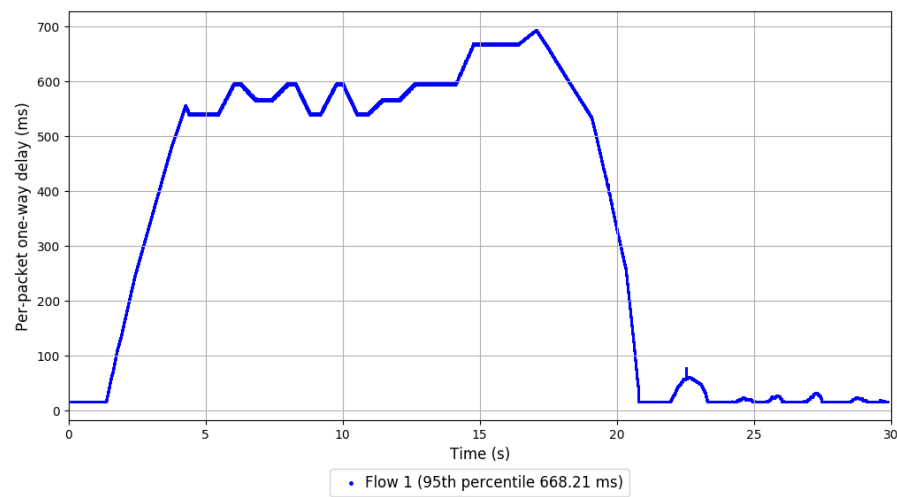
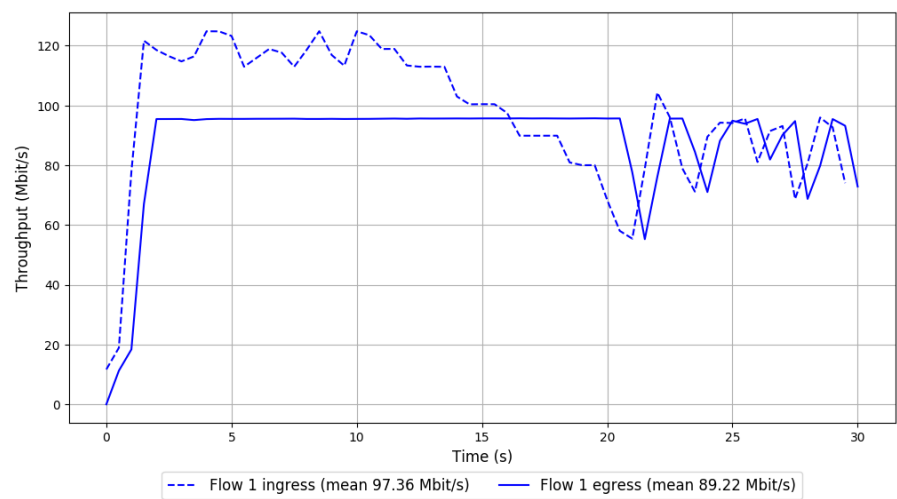


Run 4: Statistics of PCC-Expr

Start at: 2019-02-12 00:00:04  
End at: 2019-02-12 00:00:34  
Local clock offset: -0.57 ms  
Remote clock offset: -6.379 ms

# Below is generated by plot.py at 2019-02-12 00:48:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 89.22 Mbit/s  
95th percentile per-packet one-way delay: 668.212 ms  
Loss rate: 8.43%  
-- Flow 1:  
Average throughput: 89.22 Mbit/s  
95th percentile per-packet one-way delay: 668.212 ms  
Loss rate: 8.43%

Run 4: Report of PCC-Expr — Data Link





Run 5: Statistics of PCC-Expr

Start at: 2019-02-12 00:25:12

End at: 2019-02-12 00:25:42

Local clock offset: -0.62 ms

Remote clock offset: -6.02 ms

# Below is generated by plot.py at 2019-02-12 00:48:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.69 Mbit/s

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

Loss rate: 0.11%

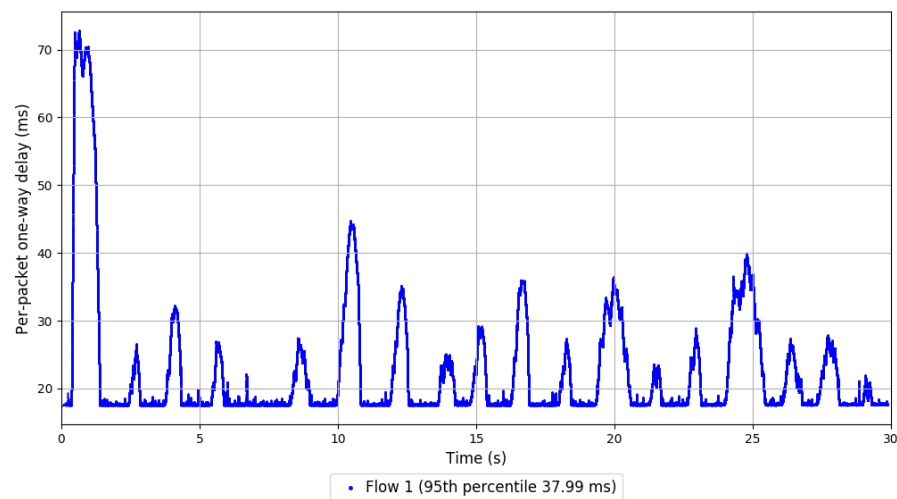
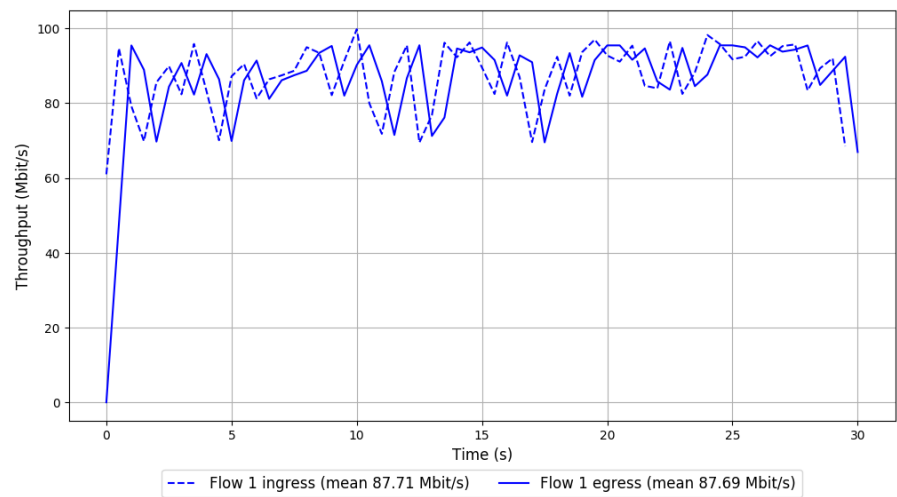
-- Flow 1:

Average throughput: 87.69 Mbit/s

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

Loss rate: 0.11%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-02-11 22:51:20

End at: 2019-02-11 22:51:50

Local clock offset: 2.732 ms

Remote clock offset: -3.924 ms

# Below is generated by plot.py at 2019-02-12 00:48:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.53 Mbit/s

95th percentile per-packet one-way delay: 22.046 ms

Loss rate: 0.12%

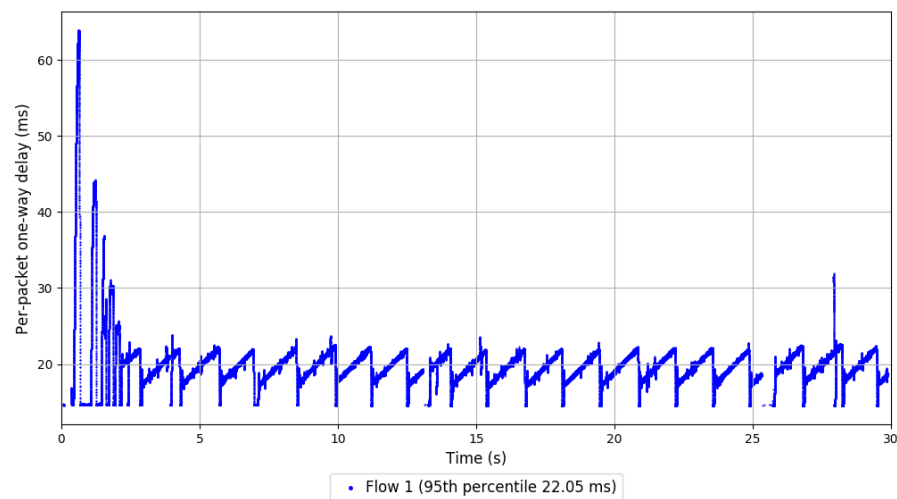
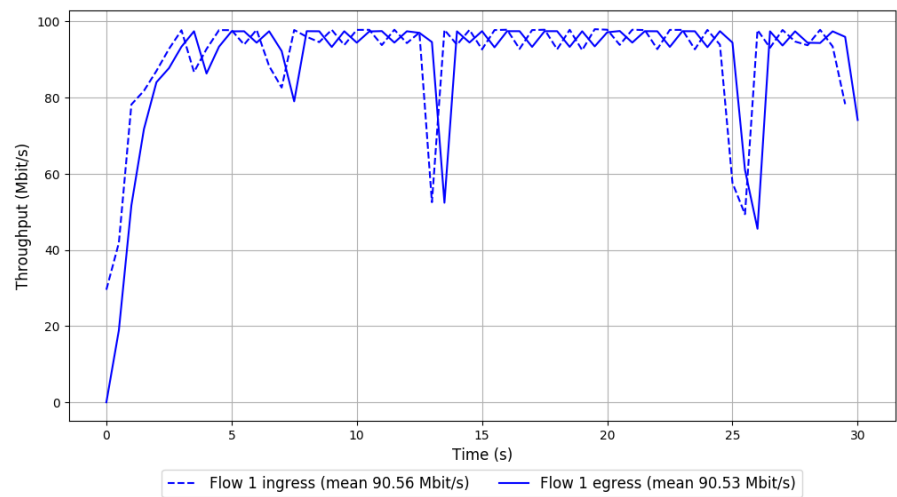
-- Flow 1:

Average throughput: 90.53 Mbit/s

95th percentile per-packet one-way delay: 22.046 ms

Loss rate: 0.12%

Run 1: Report of QUIC Cubic — Data Link

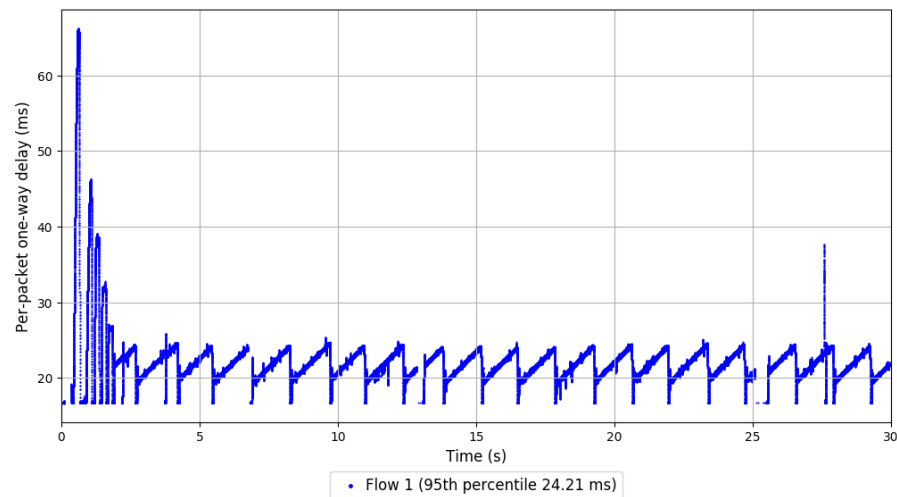
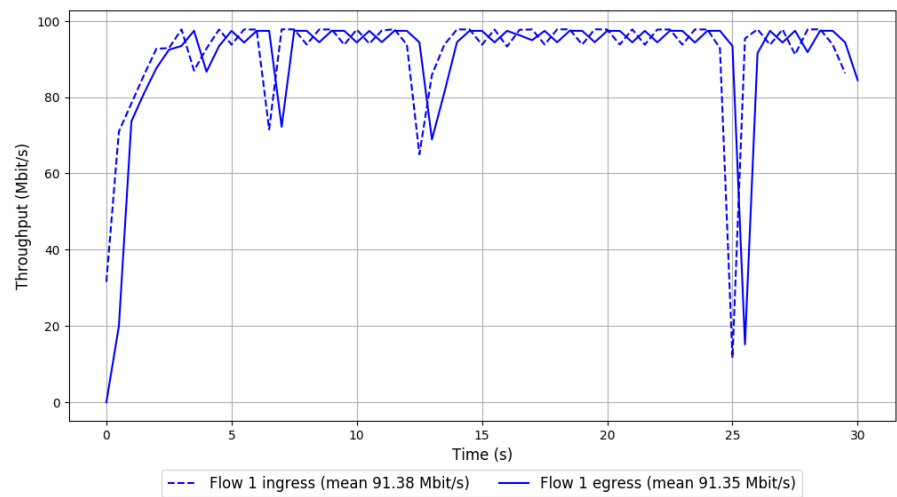


Run 2: Statistics of QUIC Cubic

Start at: 2019-02-11 23:16:11  
End at: 2019-02-11 23:16:41  
Local clock offset: 6.791 ms  
Remote clock offset: -4.203 ms

# Below is generated by plot.py at 2019-02-12 00:48:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.35 Mbit/s  
95th percentile per-packet one-way delay: 24.207 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 91.35 Mbit/s  
95th percentile per-packet one-way delay: 24.207 ms  
Loss rate: 0.12%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-02-11 23:41:07

End at: 2019-02-11 23:41:37

Local clock offset: 3.541 ms

Remote clock offset: -5.037 ms

# Below is generated by plot.py at 2019-02-12 00:48:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.01 Mbit/s

95th percentile per-packet one-way delay: 24.183 ms

Loss rate: 0.13%

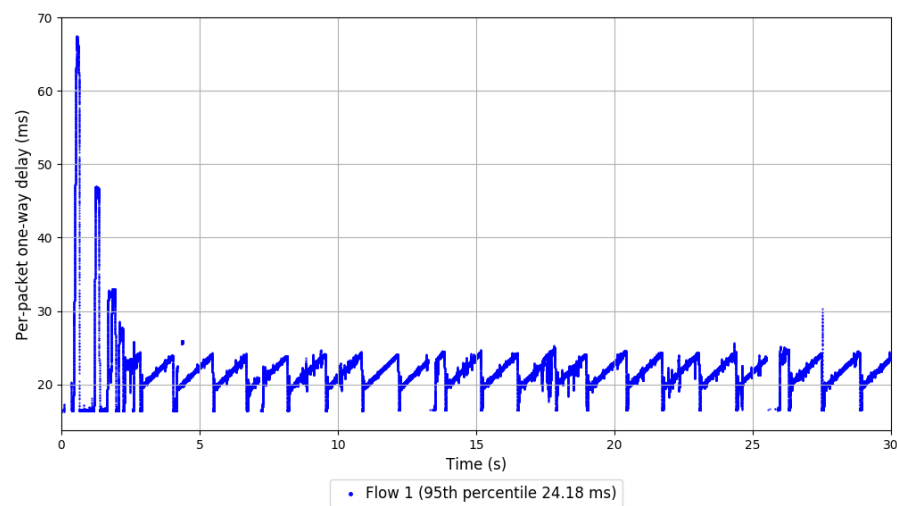
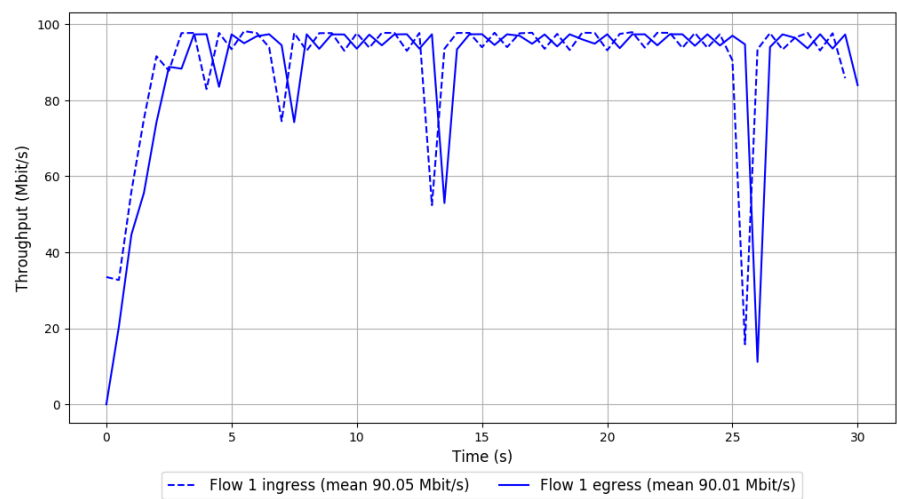
-- Flow 1:

Average throughput: 90.01 Mbit/s

95th percentile per-packet one-way delay: 24.183 ms

Loss rate: 0.13%

Run 3: Report of QUIC Cubic — Data Link





Run 4: Statistics of QUIC Cubic

Start at: 2019-02-12 00:06:03

End at: 2019-02-12 00:06:33

Local clock offset: 1.096 ms

Remote clock offset: -6.716 ms

# Below is generated by plot.py at 2019-02-12 00:48:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.23 Mbit/s

95th percentile per-packet one-way delay: 26.394 ms

Loss rate: 0.12%

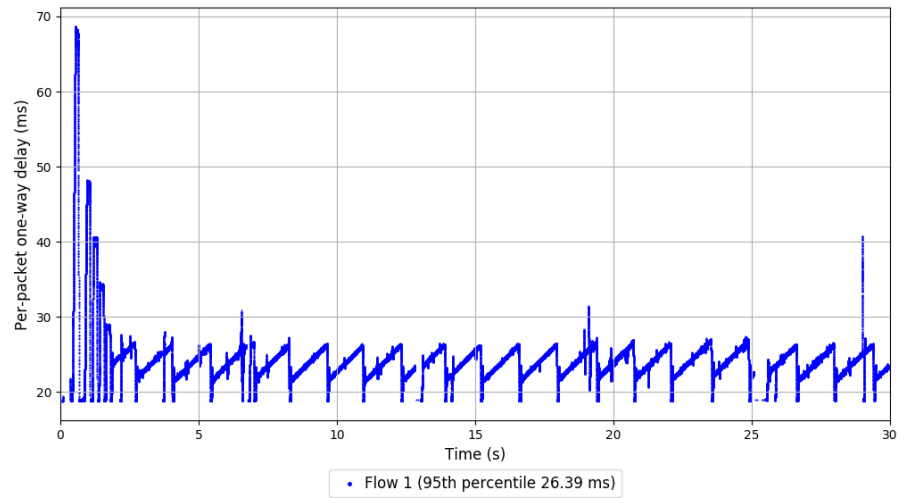
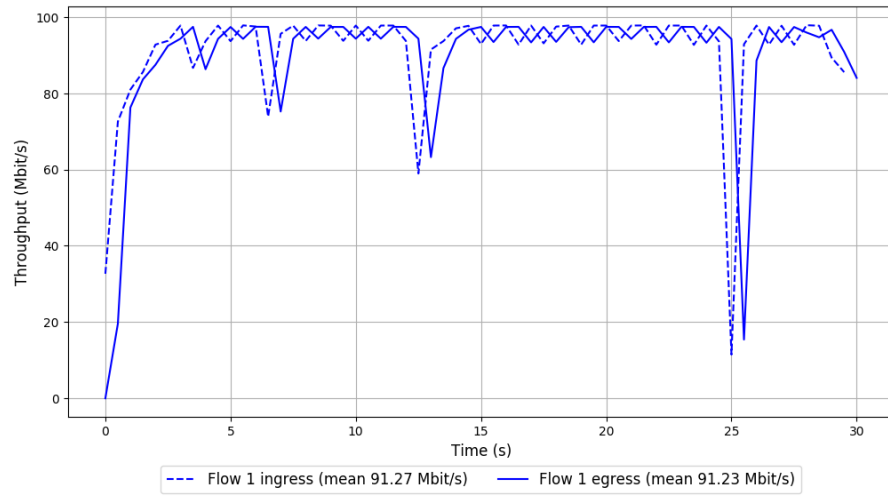
-- Flow 1:

Average throughput: 91.23 Mbit/s

95th percentile per-packet one-way delay: 26.394 ms

Loss rate: 0.12%

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

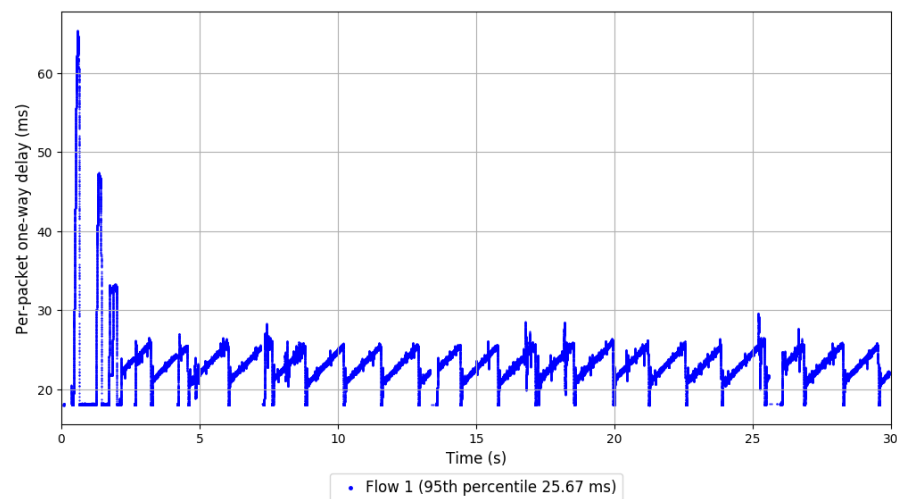
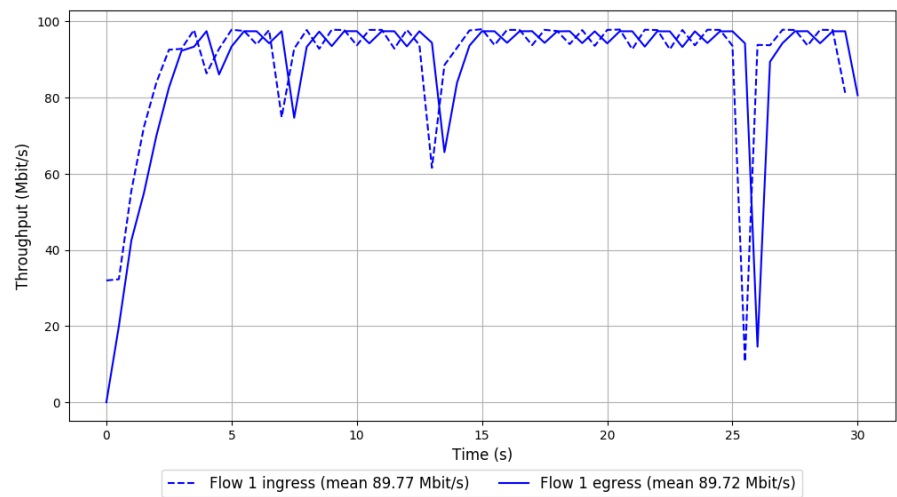


Run 5: Statistics of QUIC Cubic

Start at: 2019-02-12 00:31:20  
End at: 2019-02-12 00:31:50  
Local clock offset: -0.378 ms  
Remote clock offset: -5.942 ms

# Below is generated by plot.py at 2019-02-12 00:48:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 89.72 Mbit/s  
95th percentile per-packet one-way delay: 25.671 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 89.72 Mbit/s  
95th percentile per-packet one-way delay: 25.671 ms  
Loss rate: 0.14%

Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2019-02-11 22:40:46

End at: 2019-02-11 22:41:16

Local clock offset: 5.027 ms

Remote clock offset: -4.18 ms

# Below is generated by plot.py at 2019-02-12 00:48:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 19.565 ms

Loss rate: 0.13%

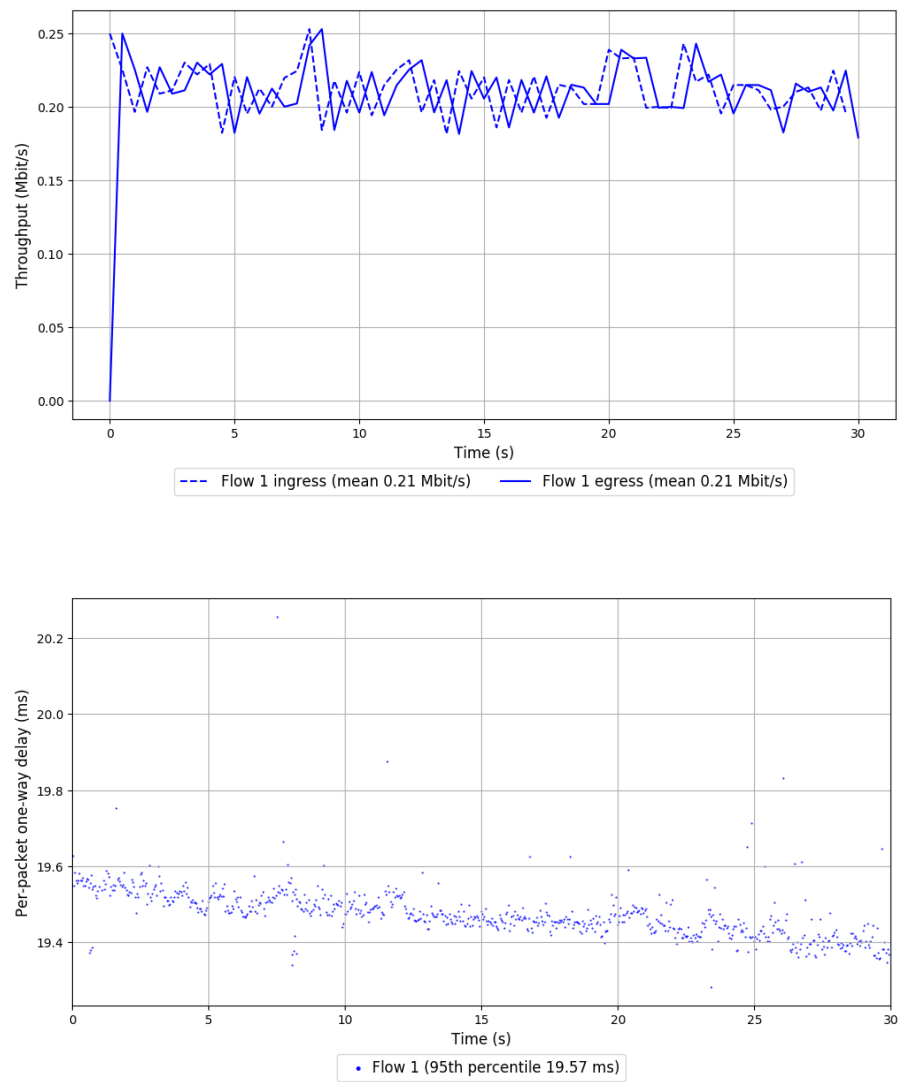
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 19.565 ms

Loss rate: 0.13%

Run 1: Report of SReAM — Data Link

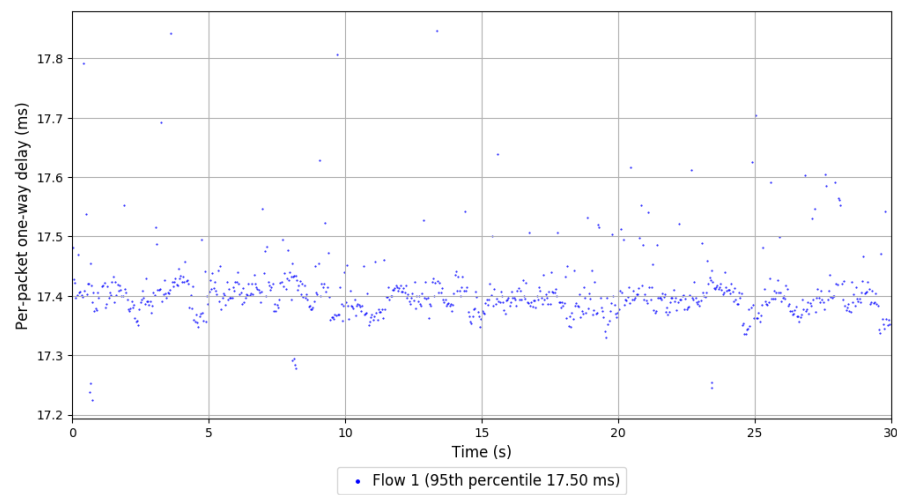
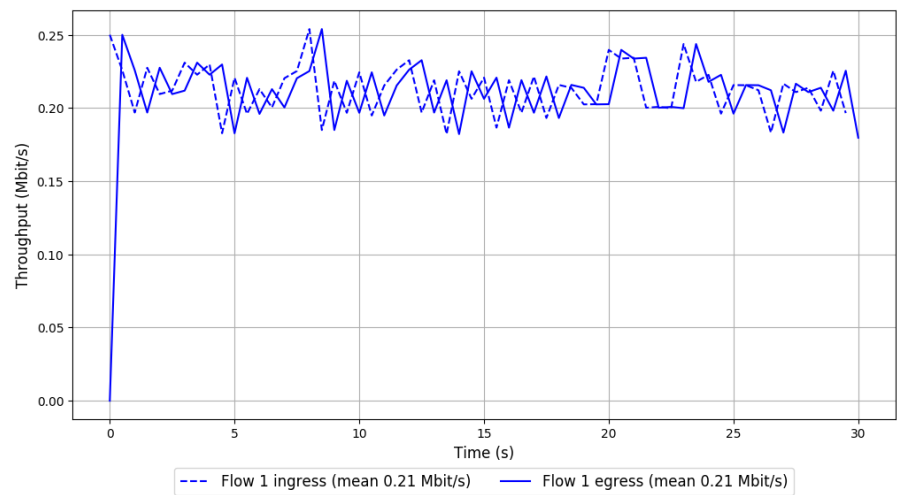


Run 2: Statistics of SCReAM

Start at: 2019-02-11 23:05:34  
End at: 2019-02-11 23:06:04  
Local clock offset: 6.696 ms  
Remote clock offset: -4.308 ms

# Below is generated by plot.py at 2019-02-12 00:48:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 17.503 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 17.503 ms  
Loss rate: 0.13%

Run 2: Report of SReAM — Data Link



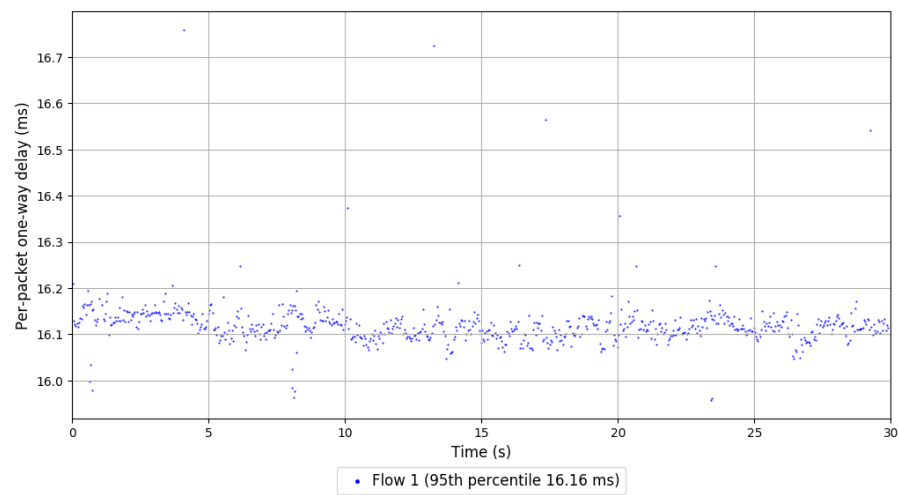
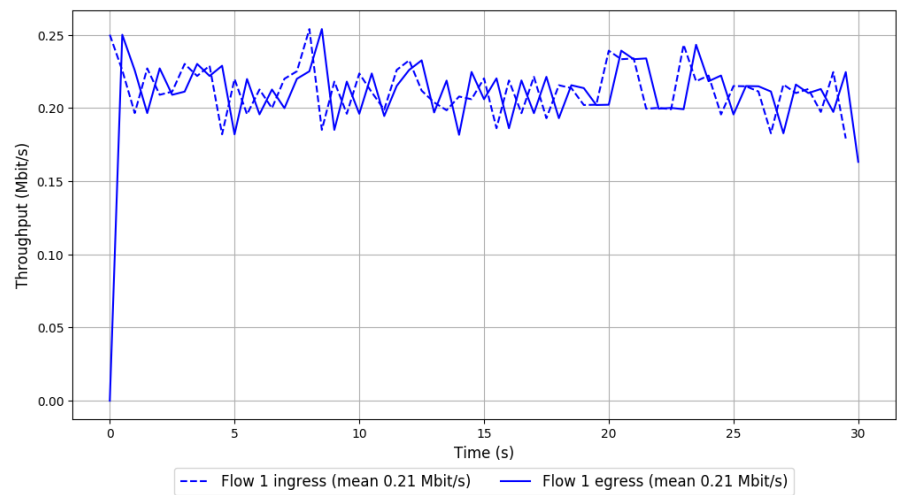


Run 3: Statistics of SReAM

Start at: 2019-02-11 23:30:27  
End at: 2019-02-11 23:30:57  
Local clock offset: 6.243 ms  
Remote clock offset: -5.132 ms

# Below is generated by plot.py at 2019-02-12 00:48:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 16.163 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 16.163 ms  
Loss rate: 0.13%

Run 3: Report of SReAM — Data Link

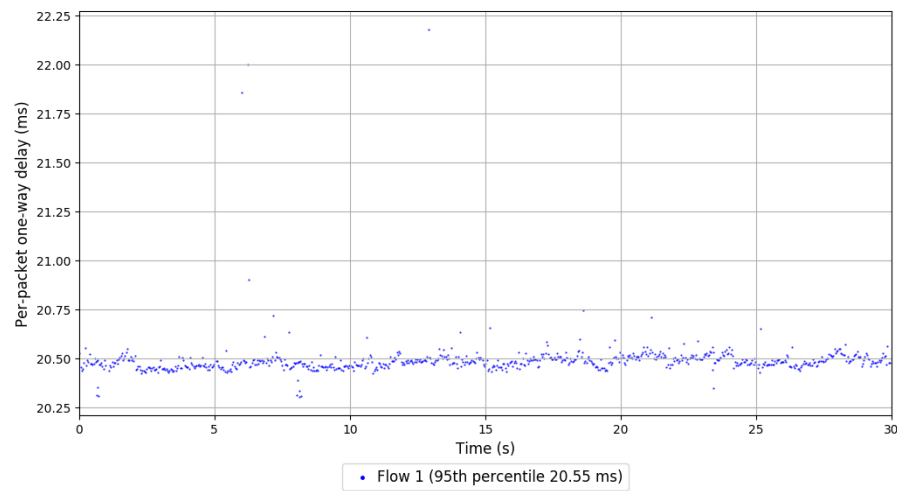
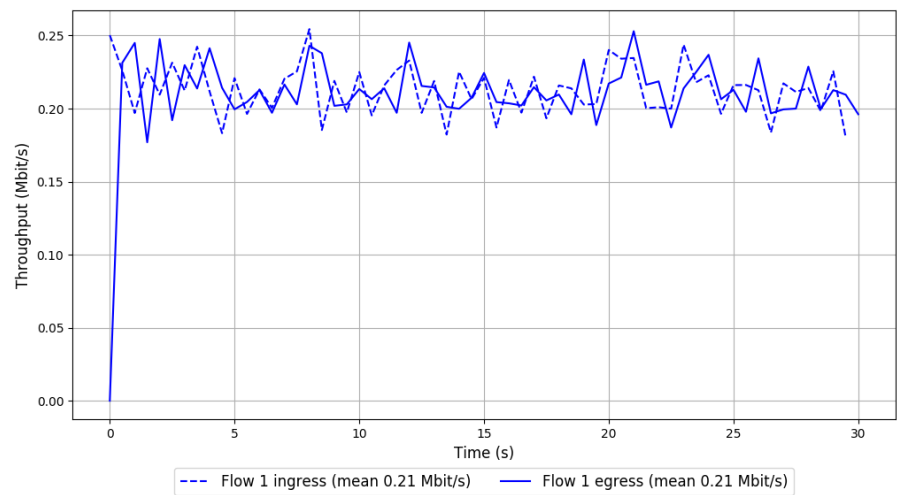


Run 4: Statistics of SCReAM

Start at: 2019-02-11 23:55:32  
End at: 2019-02-11 23:56:02  
Local clock offset: 3.319 ms  
Remote clock offset: -6.859 ms

# Below is generated by plot.py at 2019-02-12 00:48:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 20.545 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 20.545 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

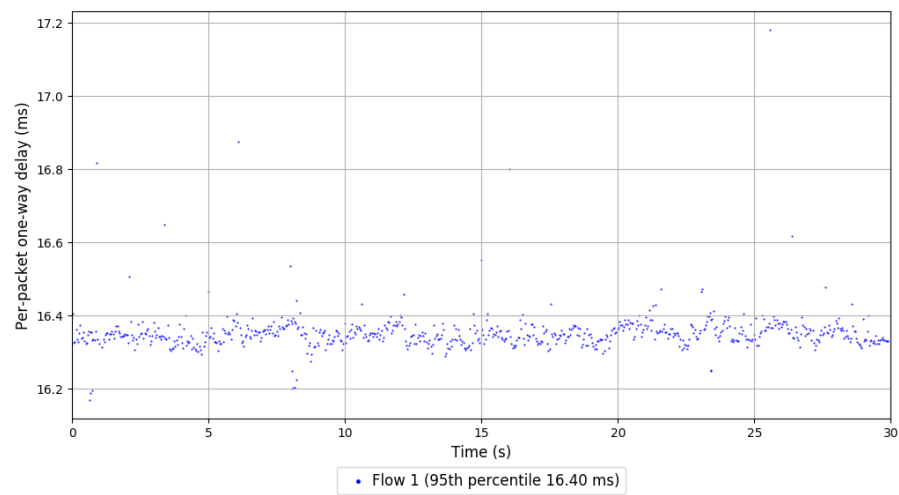
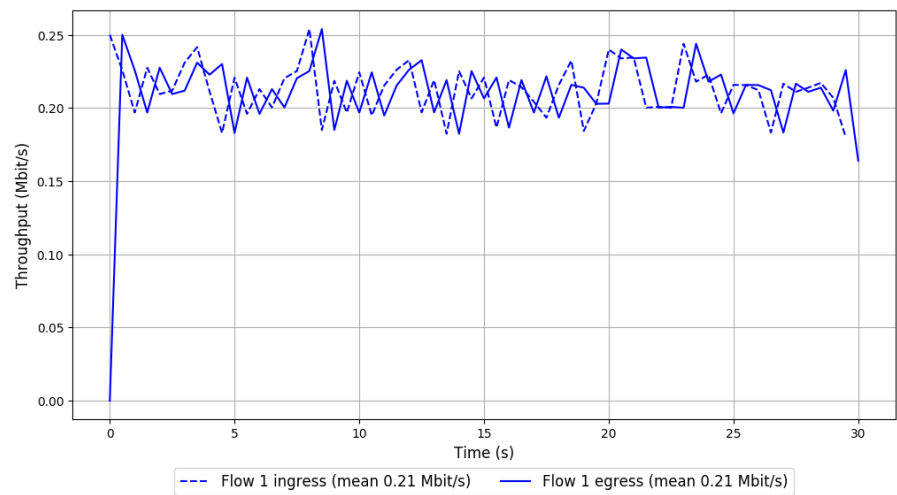


Run 5: Statistics of SCReAM

Start at: 2019-02-12 00:20:34  
End at: 2019-02-12 00:21:04  
Local clock offset: -1.13 ms  
Remote clock offset: -5.621 ms

# Below is generated by plot.py at 2019-02-12 00:48:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 16.398 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 16.398 ms  
Loss rate: 0.13%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-02-11 22:41:51

End at: 2019-02-11 22:42:21

Local clock offset: 3.236 ms

Remote clock offset: -4.27 ms

# Below is generated by plot.py at 2019-02-12 00:48:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 24.71 Mbit/s

95th percentile per-packet one-way delay: 25.638 ms

Loss rate: 0.14%

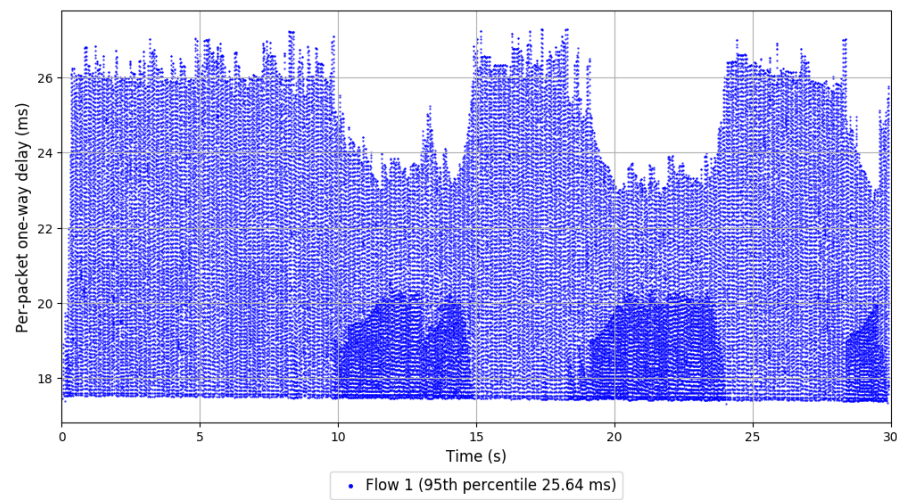
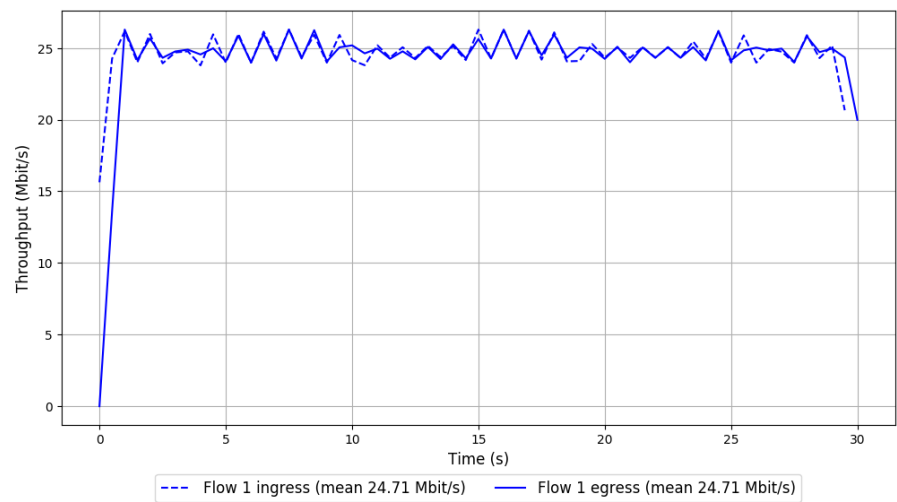
-- Flow 1:

Average throughput: 24.71 Mbit/s

95th percentile per-packet one-way delay: 25.638 ms

Loss rate: 0.14%

Run 1: Report of Sprout — Data Link



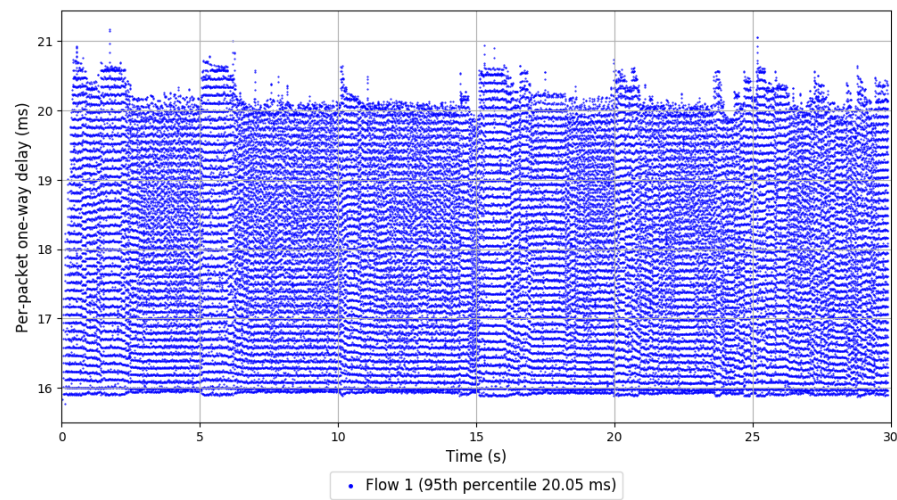
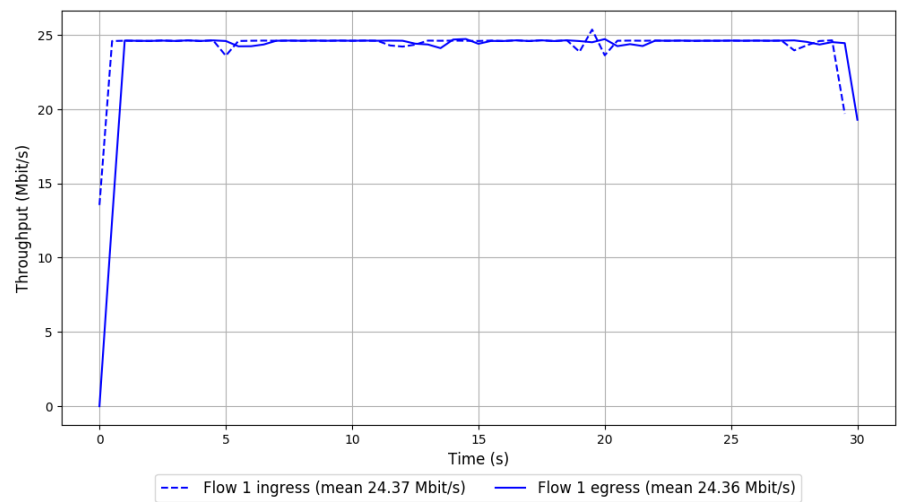


Run 2: Statistics of Sprout

Start at: 2019-02-11 23:06:39  
End at: 2019-02-11 23:07:09  
Local clock offset: 5.665 ms  
Remote clock offset: -3.892 ms

# Below is generated by plot.py at 2019-02-12 00:48:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.36 Mbit/s  
95th percentile per-packet one-way delay: 20.053 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 24.36 Mbit/s  
95th percentile per-packet one-way delay: 20.053 ms  
Loss rate: 0.07%

Run 2: Report of Sprout — Data Link

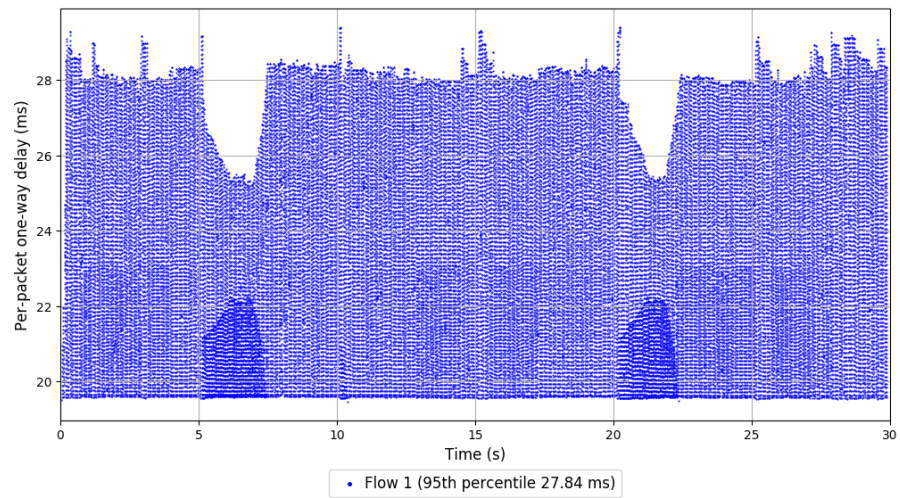
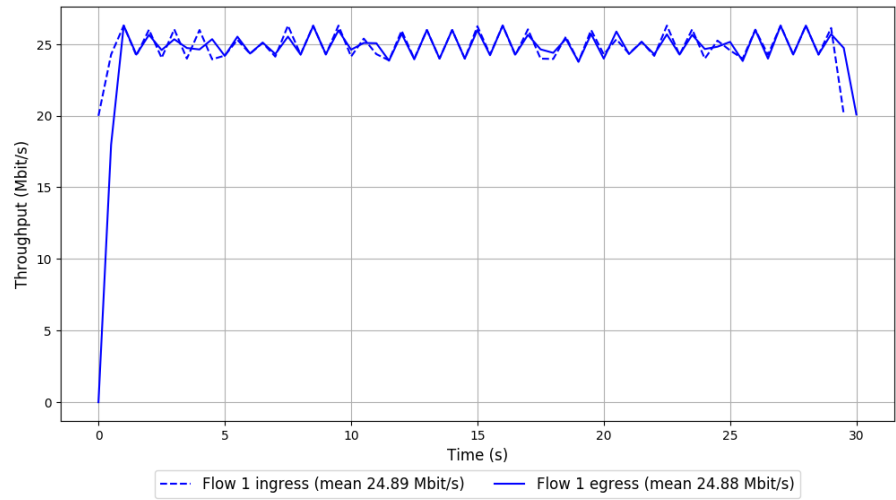


Run 3: Statistics of Sprout

Start at: 2019-02-11 23:31:32  
End at: 2019-02-11 23:32:02  
Local clock offset: 7.999 ms  
Remote clock offset: -6.873 ms

# Below is generated by plot.py at 2019-02-12 00:48:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.88 Mbit/s  
95th percentile per-packet one-way delay: 27.844 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 24.88 Mbit/s  
95th percentile per-packet one-way delay: 27.844 ms  
Loss rate: 0.14%

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

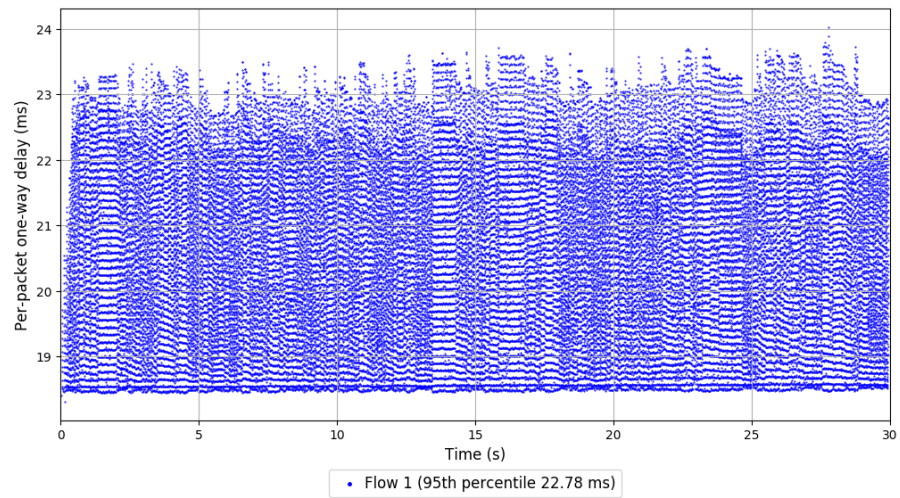
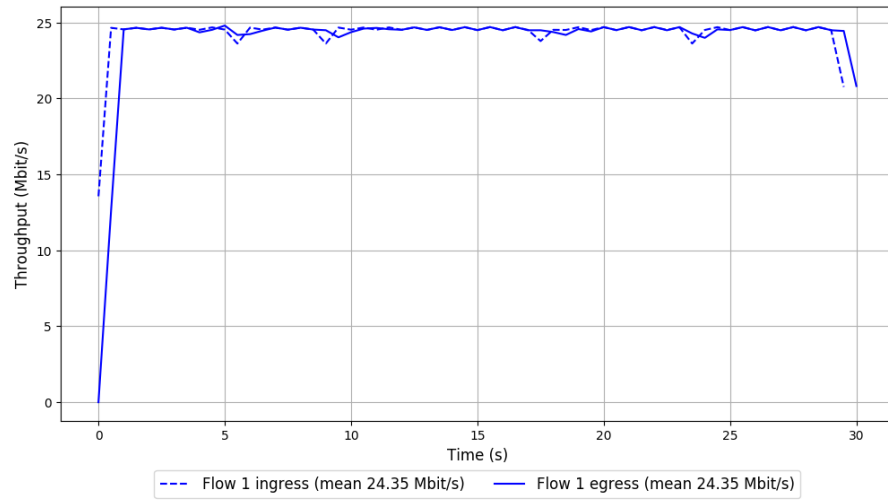


Run 4: Statistics of Sprout

Start at: 2019-02-11 23:56:37  
End at: 2019-02-11 23:57:07  
Local clock offset: 0.811 ms  
Remote clock offset: -7.255 ms

# Below is generated by plot.py at 2019-02-12 00:48:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.35 Mbit/s  
95th percentile per-packet one-way delay: 22.782 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 24.35 Mbit/s  
95th percentile per-packet one-way delay: 22.782 ms  
Loss rate: 0.07%

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

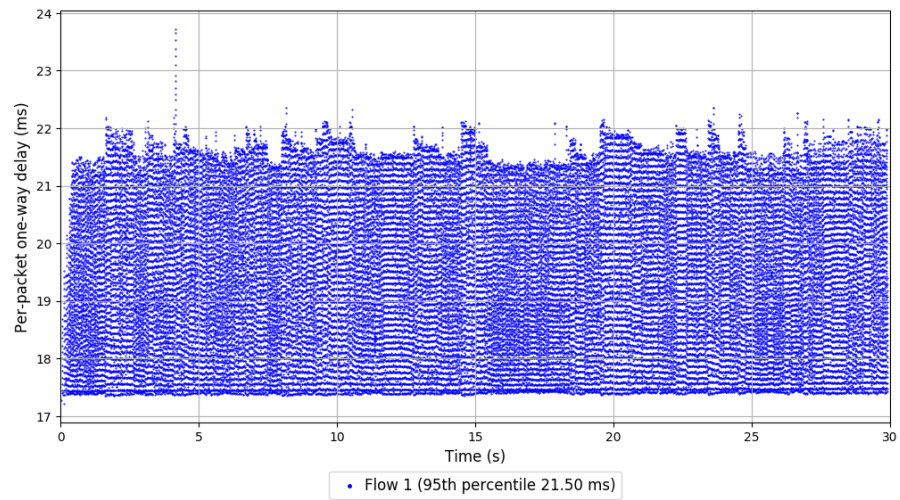
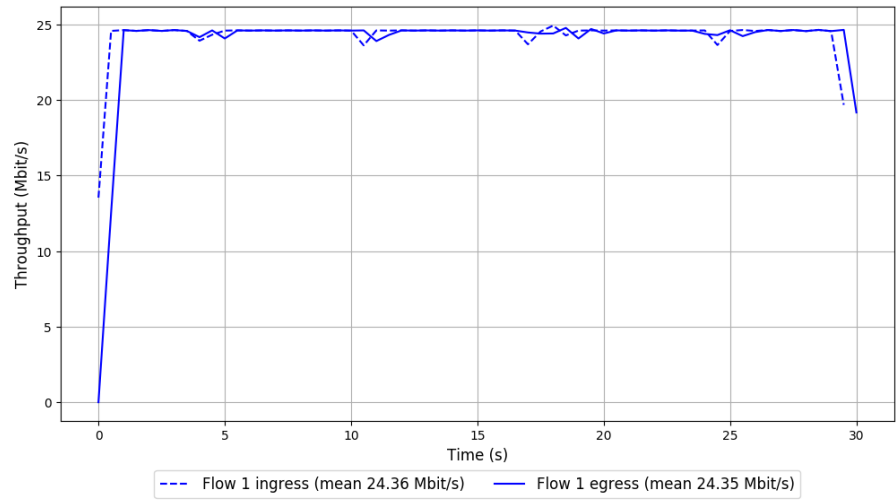


Run 5: Statistics of Sprout

Start at: 2019-02-12 00:21:39  
End at: 2019-02-12 00:22:09  
Local clock offset: -1.093 ms  
Remote clock offset: -6.538 ms

# Below is generated by plot.py at 2019-02-12 00:48:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.35 Mbit/s  
95th percentile per-packet one-way delay: 21.495 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 24.35 Mbit/s  
95th percentile per-packet one-way delay: 21.495 ms  
Loss rate: 0.10%

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





Run 1: Statistics of TaoVA-100x

Start at: 2019-02-11 22:35:43

End at: 2019-02-11 22:36:13

Local clock offset: 2.45 ms

Remote clock offset: -4.449 ms

# Below is generated by plot.py at 2019-02-12 00:49:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.07 Mbit/s

95th percentile per-packet one-way delay: 21.251 ms

Loss rate: 0.08%

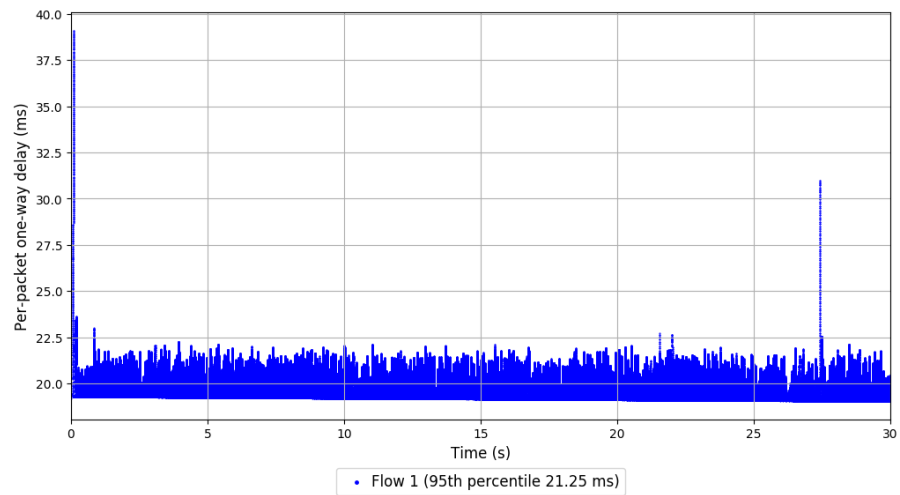
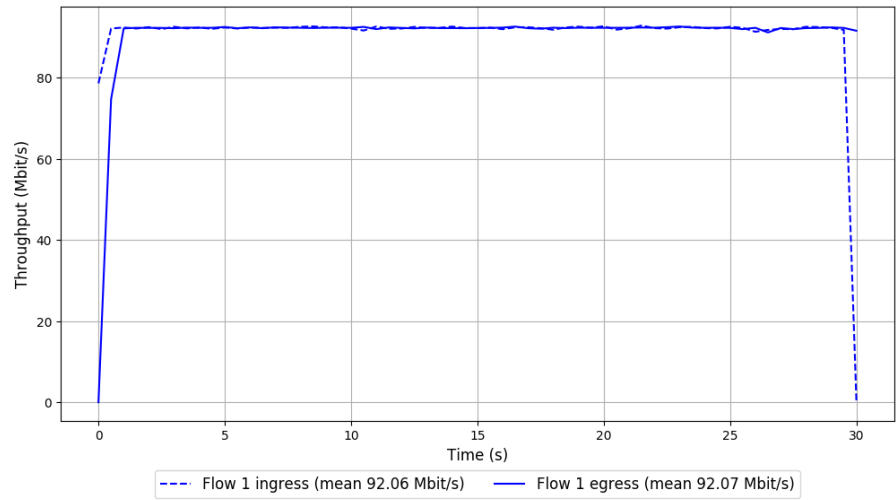
-- Flow 1:

Average throughput: 92.07 Mbit/s

95th percentile per-packet one-way delay: 21.251 ms

Loss rate: 0.08%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-02-11 23:00:43

End at: 2019-02-11 23:01:13

Local clock offset: 6.085 ms

Remote clock offset: -5.798 ms

# Below is generated by plot.py at 2019-02-12 00:49:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.12 Mbit/s

95th percentile per-packet one-way delay: 20.810 ms

Loss rate: 0.09%

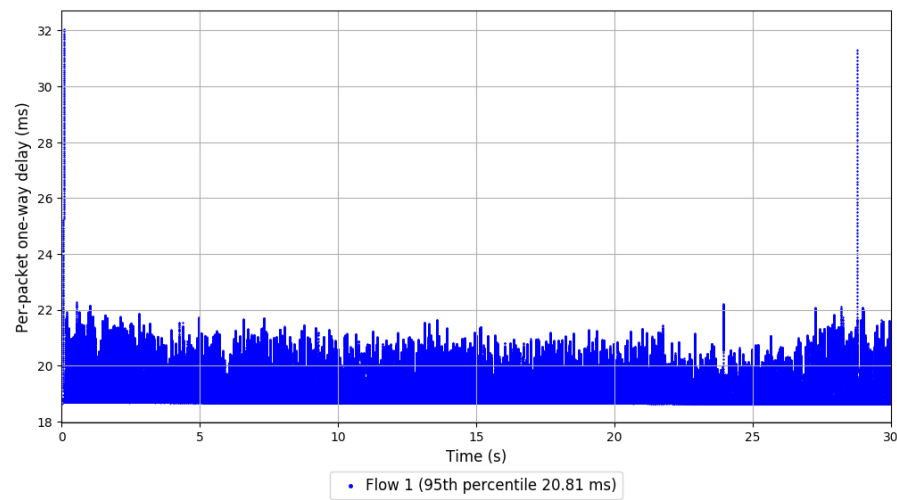
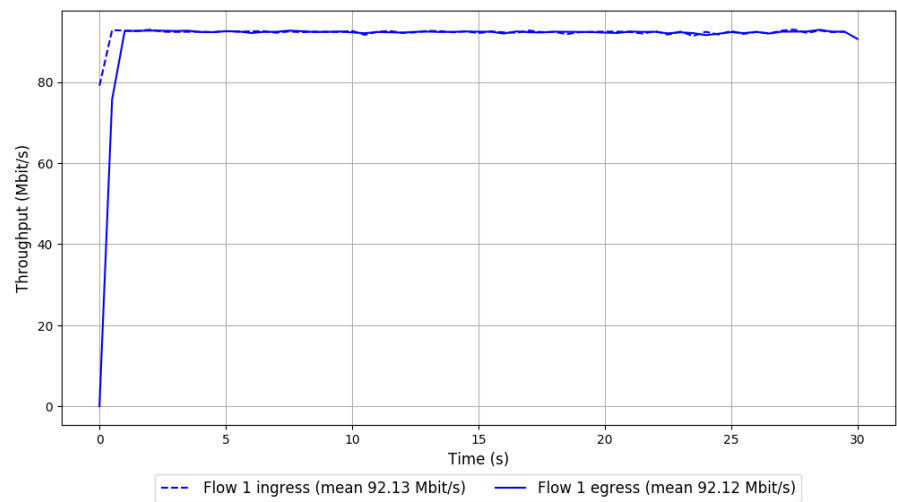
-- Flow 1:

Average throughput: 92.12 Mbit/s

95th percentile per-packet one-way delay: 20.810 ms

Loss rate: 0.09%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-02-11 23:25:39

End at: 2019-02-11 23:26:09

Local clock offset: 4.792 ms

Remote clock offset: -5.181 ms

# Below is generated by plot.py at 2019-02-12 00:49:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.82 Mbit/s

95th percentile per-packet one-way delay: 17.468 ms

Loss rate: 0.08%

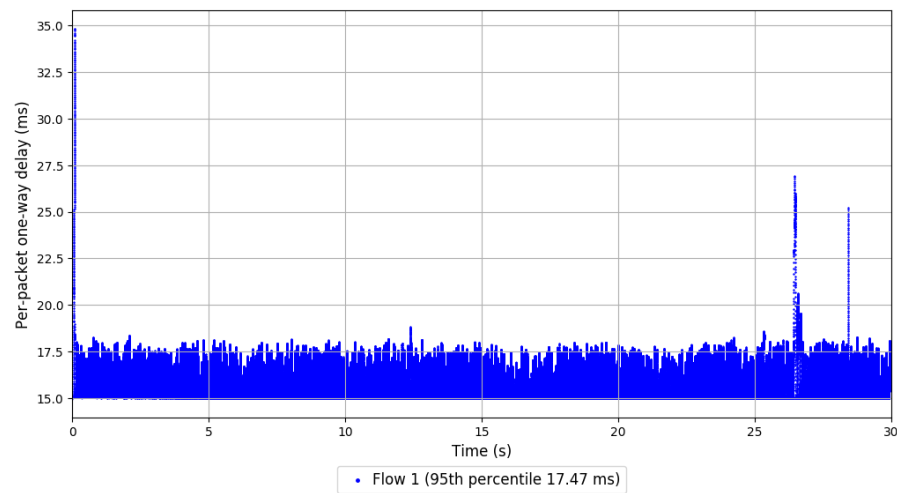
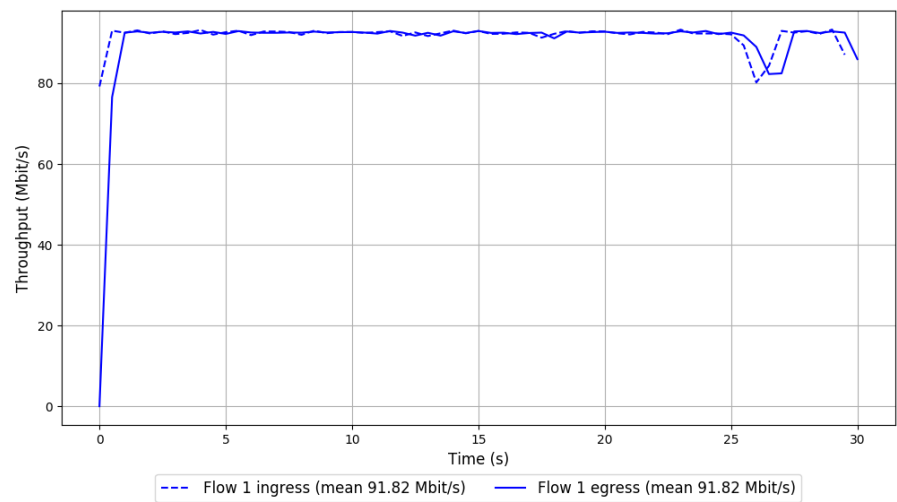
-- Flow 1:

Average throughput: 91.82 Mbit/s

95th percentile per-packet one-way delay: 17.468 ms

Loss rate: 0.08%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-02-11 23:50:39

End at: 2019-02-11 23:51:09

Local clock offset: -0.21 ms

Remote clock offset: -6.506 ms

# Below is generated by plot.py at 2019-02-12 00:49:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.12 Mbit/s

95th percentile per-packet one-way delay: 18.774 ms

Loss rate: 0.08%

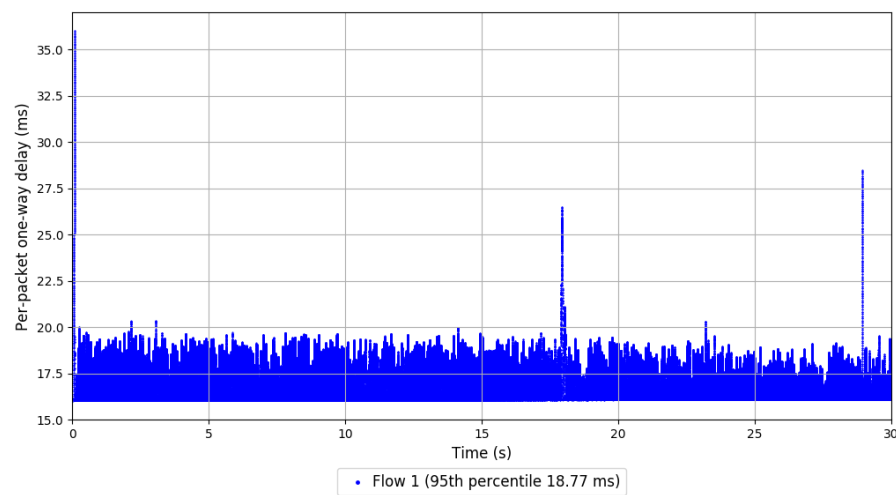
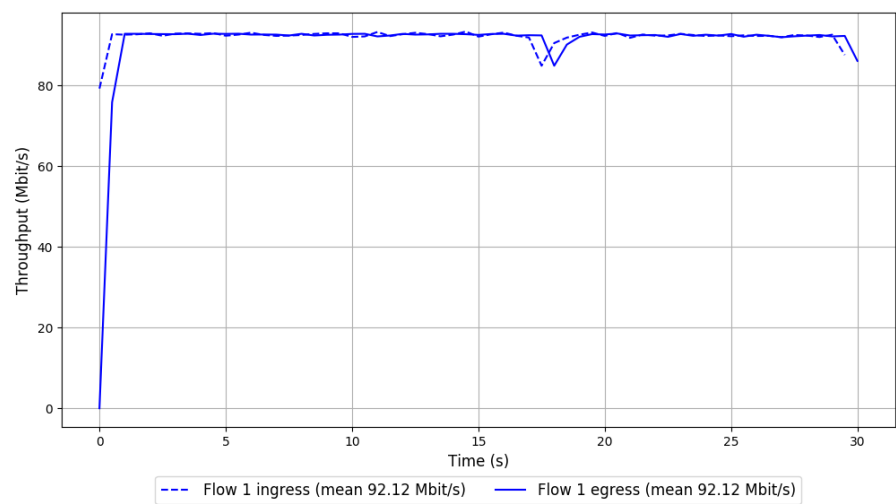
-- Flow 1:

Average throughput: 92.12 Mbit/s

95th percentile per-packet one-way delay: 18.774 ms

Loss rate: 0.08%

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



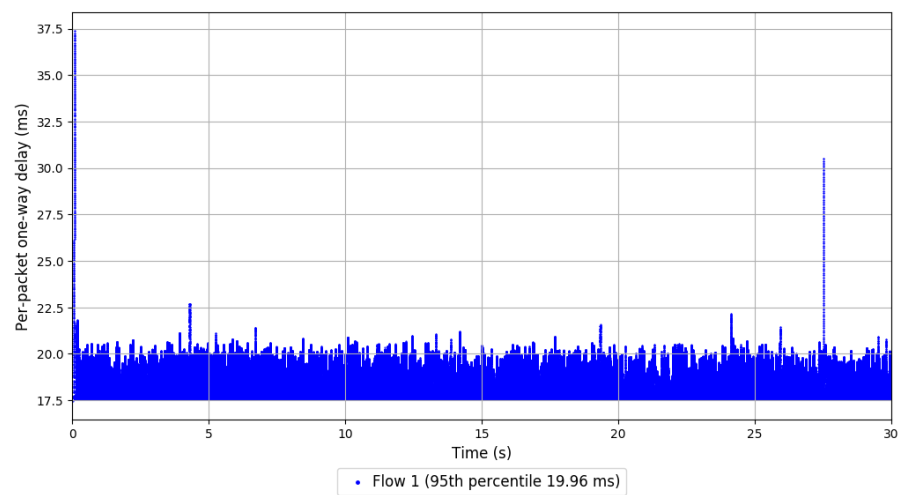
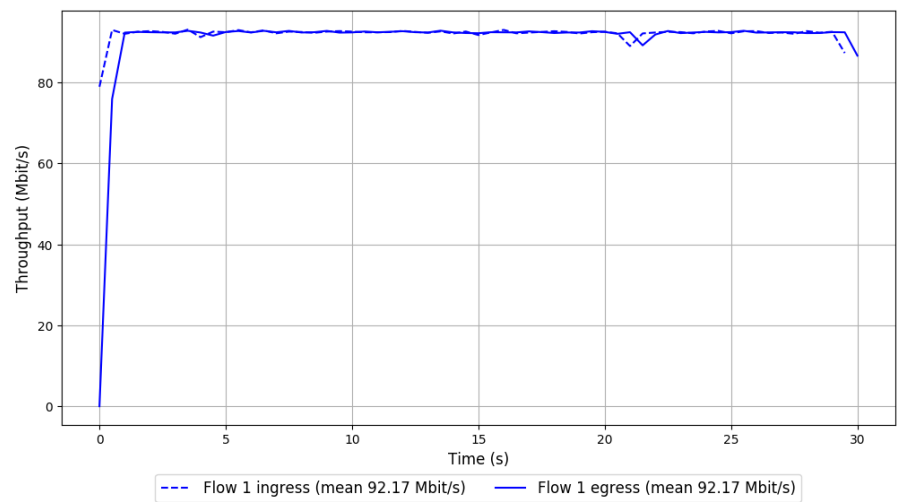


Run 5: Statistics of TaoVA-100x

Start at: 2019-02-12 00:15:37  
End at: 2019-02-12 00:16:07  
Local clock offset: -1.377 ms  
Remote clock offset: -7.331 ms

# Below is generated by plot.py at 2019-02-12 00:50:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.17 Mbit/s  
95th percentile per-packet one-way delay: 19.957 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 92.17 Mbit/s  
95th percentile per-packet one-way delay: 19.957 ms  
Loss rate: 0.08%

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

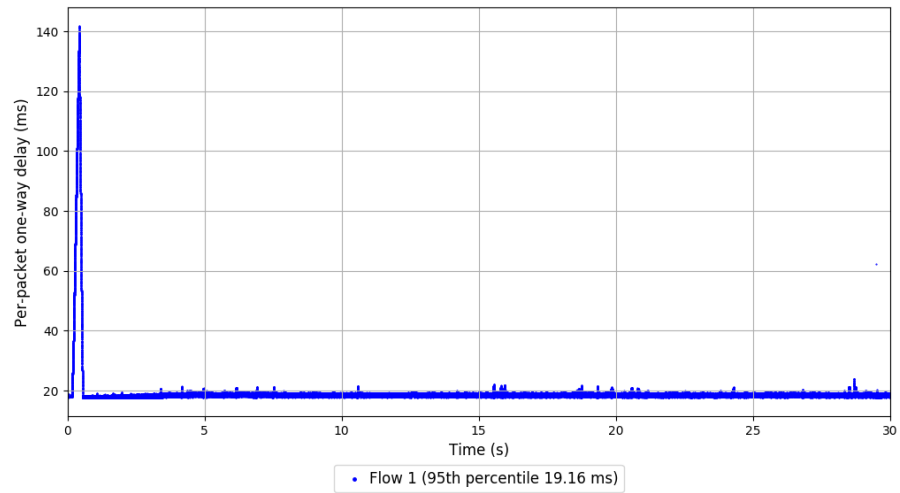
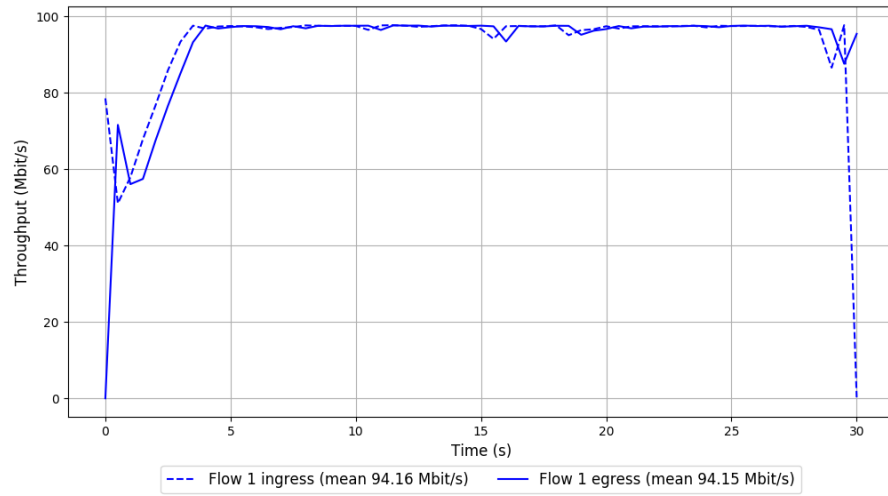


Run 1: Statistics of TCP Vegas

Start at: 2019-02-11 22:44:09  
End at: 2019-02-11 22:44:39  
Local clock offset: 4.912 ms  
Remote clock offset: -3.423 ms

# Below is generated by plot.py at 2019-02-12 00:50:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.15 Mbit/s  
95th percentile per-packet one-way delay: 19.158 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 94.15 Mbit/s  
95th percentile per-packet one-way delay: 19.158 ms  
Loss rate: 0.09%

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

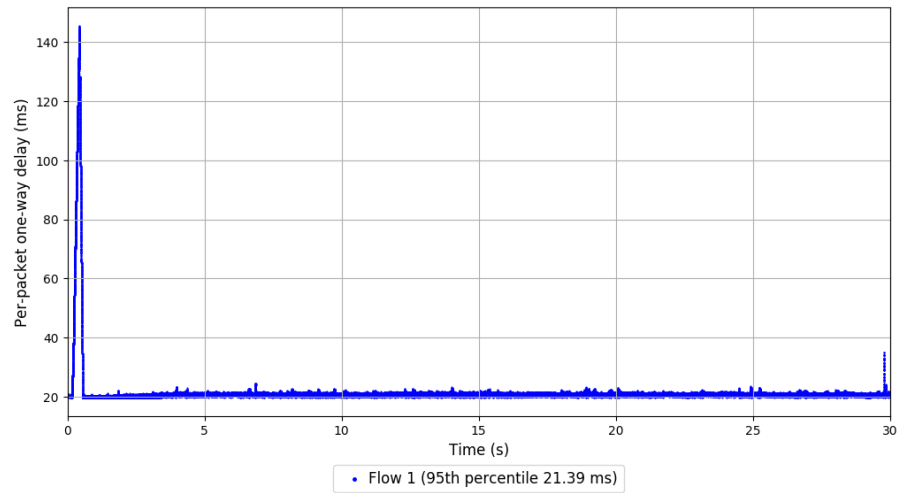
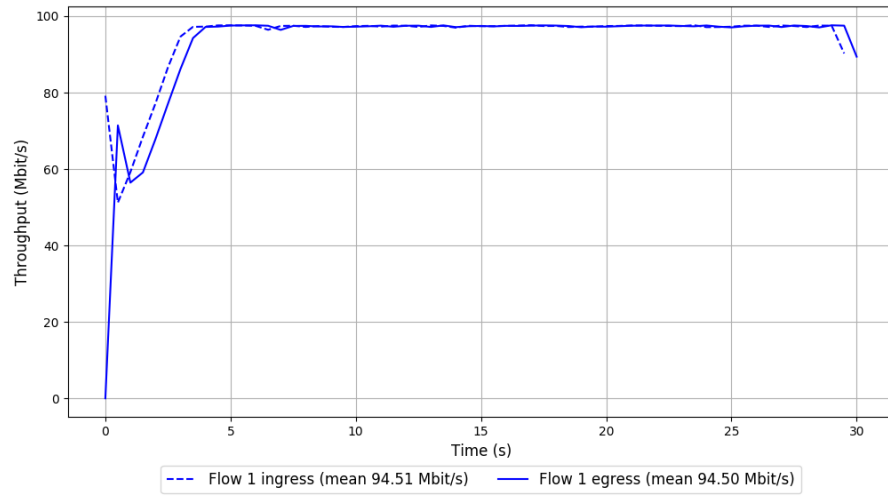


Run 2: Statistics of TCP Vegas

Start at: 2019-02-11 23:08:59  
End at: 2019-02-11 23:09:29  
Local clock offset: 7.512 ms  
Remote clock offset: -6.121 ms

# Below is generated by plot.py at 2019-02-12 00:50:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.50 Mbit/s  
95th percentile per-packet one-way delay: 21.387 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 94.50 Mbit/s  
95th percentile per-packet one-way delay: 21.387 ms  
Loss rate: 0.09%

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

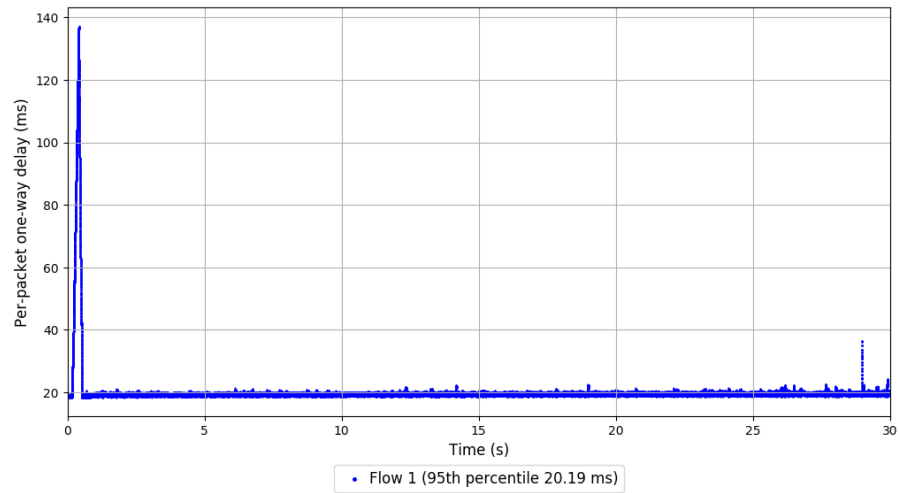
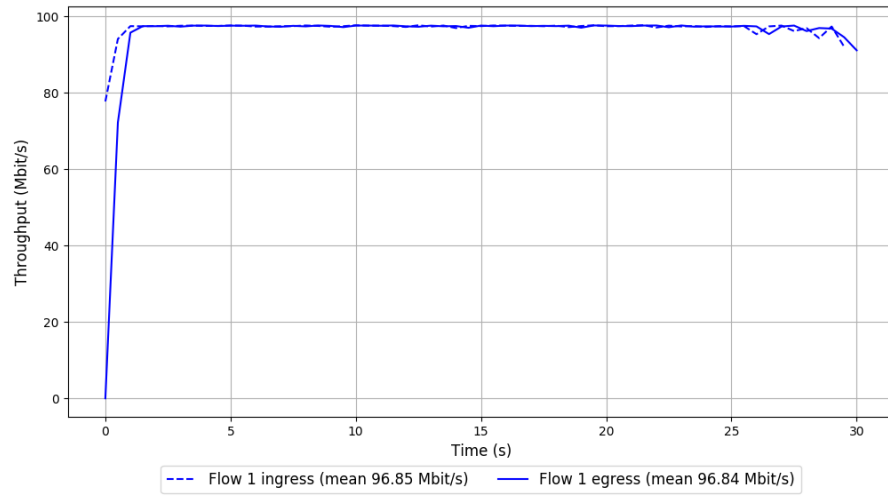


Run 3: Statistics of TCP Vegas

Start at: 2019-02-11 23:33:50  
End at: 2019-02-11 23:34:20  
Local clock offset: 7.368 ms  
Remote clock offset: -6.529 ms

# Below is generated by plot.py at 2019-02-12 00:50:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.84 Mbit/s  
95th percentile per-packet one-way delay: 20.194 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 96.84 Mbit/s  
95th percentile per-packet one-way delay: 20.194 ms  
Loss rate: 0.09%

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



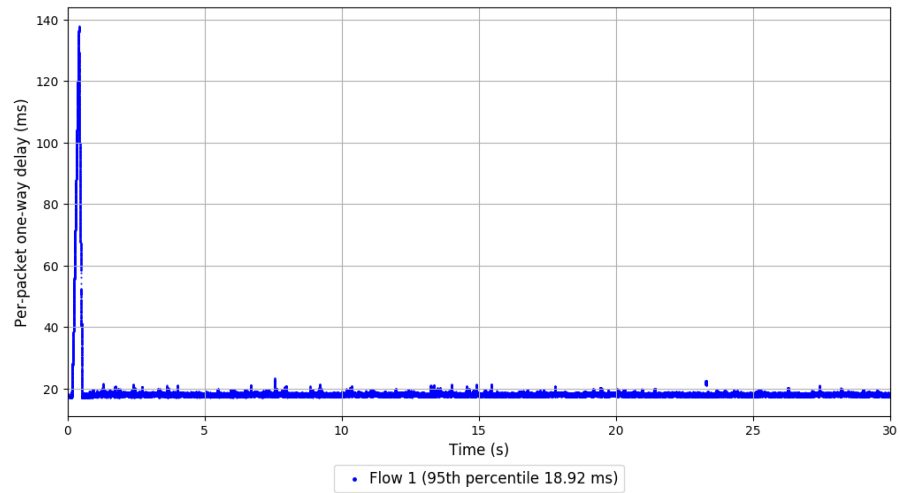
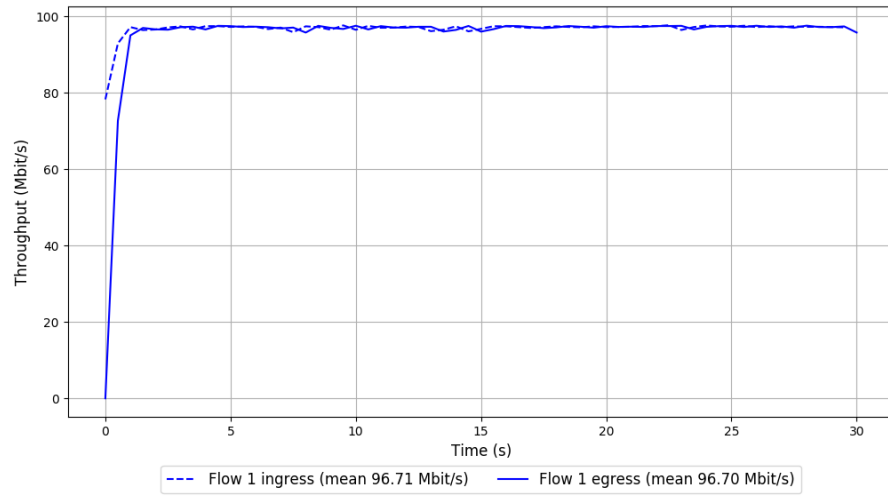


Run 4: Statistics of TCP Vegas

Start at: 2019-02-11 23:58:54  
End at: 2019-02-11 23:59:24  
Local clock offset: -0.749 ms  
Remote clock offset: -7.407 ms

# Below is generated by plot.py at 2019-02-12 00:50:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.70 Mbit/s  
95th percentile per-packet one-way delay: 18.916 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 96.70 Mbit/s  
95th percentile per-packet one-way delay: 18.916 ms  
Loss rate: 0.08%

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

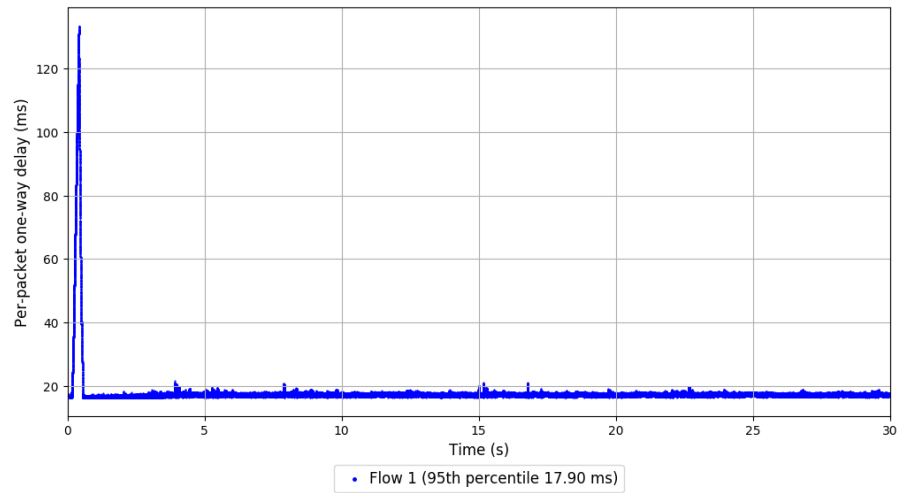
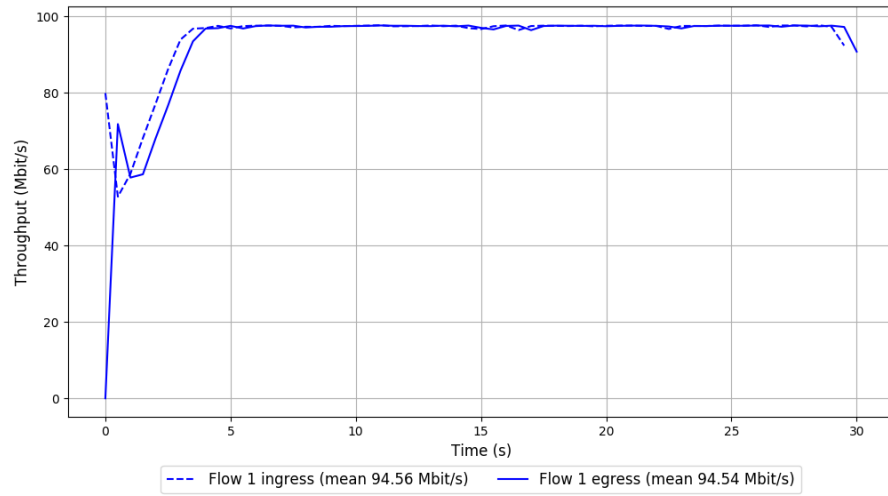


Run 5: Statistics of TCP Vegas

Start at: 2019-02-12 00:24:00  
End at: 2019-02-12 00:24:30  
Local clock offset: -1.542 ms  
Remote clock offset: -5.903 ms

# Below is generated by plot.py at 2019-02-12 00:50:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.54 Mbit/s  
95th percentile per-packet one-way delay: 17.898 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 94.54 Mbit/s  
95th percentile per-packet one-way delay: 17.898 ms  
Loss rate: 0.11%

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

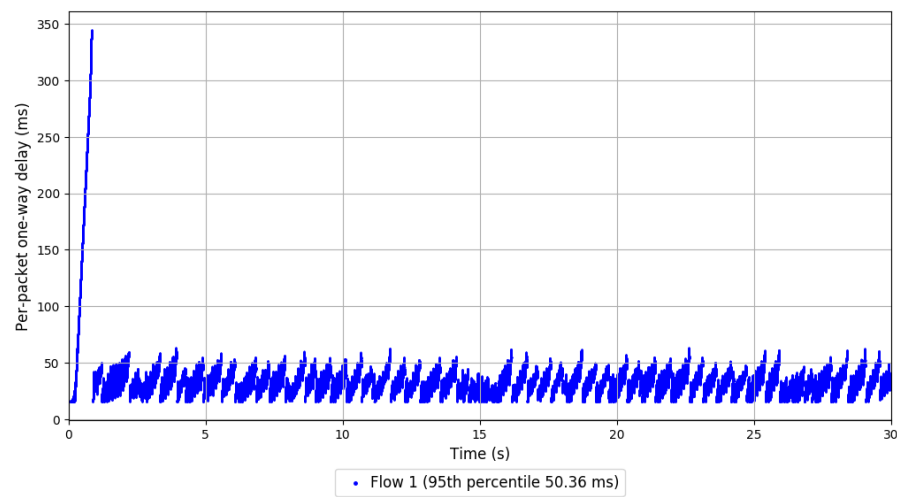
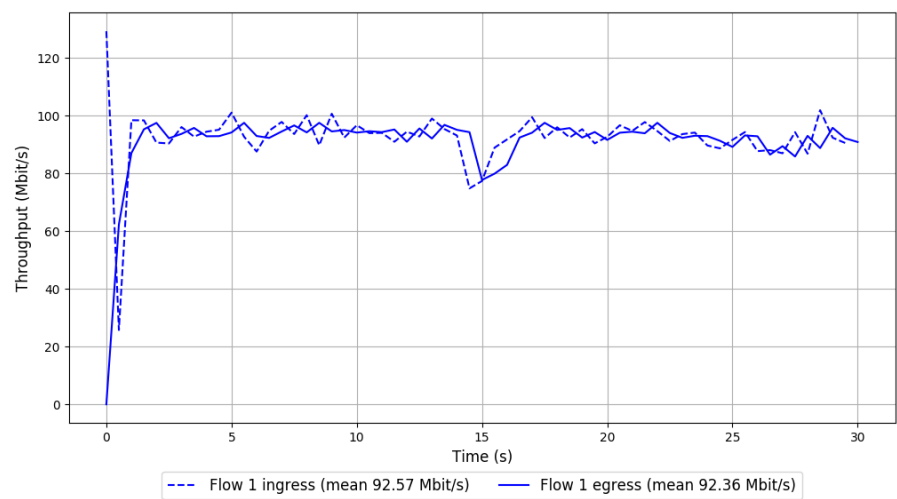


Run 1: Statistics of Verus

Start at: 2019-02-11 22:38:12  
End at: 2019-02-11 22:38:42  
Local clock offset: 1.022 ms  
Remote clock offset: -3.515 ms

# Below is generated by plot.py at 2019-02-12 00:50:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.36 Mbit/s  
95th percentile per-packet one-way delay: 50.358 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 92.36 Mbit/s  
95th percentile per-packet one-way delay: 50.358 ms  
Loss rate: 0.31%

Run 1: Report of Verus — Data Link

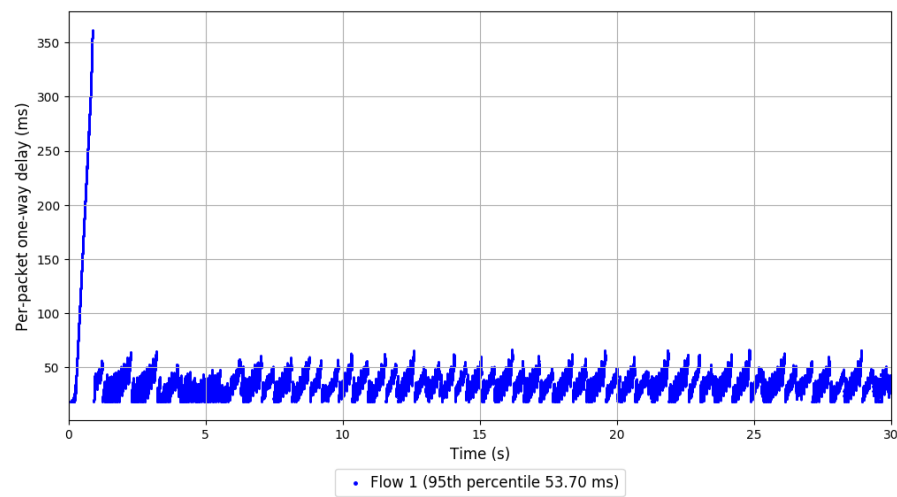
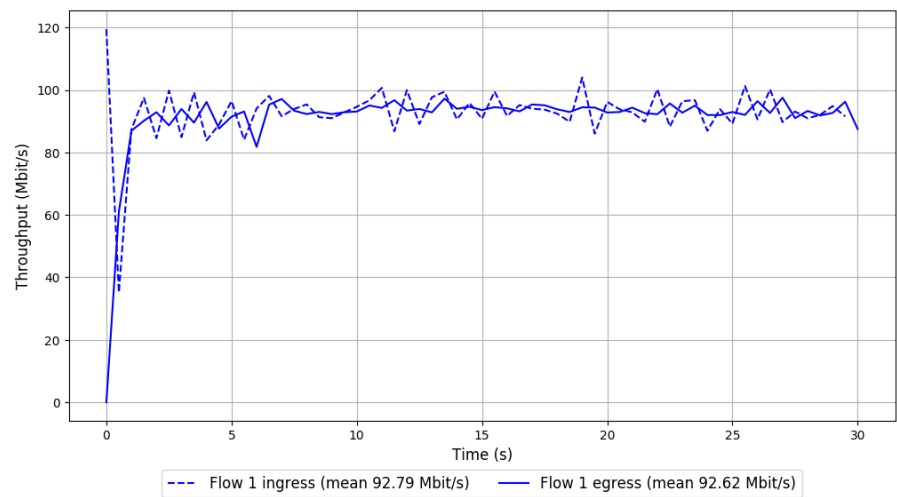


Run 2: Statistics of Verus

Start at: 2019-02-11 23:03:11  
End at: 2019-02-11 23:03:41  
Local clock offset: 5.334 ms  
Remote clock offset: -6.417 ms

# Below is generated by plot.py at 2019-02-12 00:50:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.62 Mbit/s  
95th percentile per-packet one-way delay: 53.700 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 92.62 Mbit/s  
95th percentile per-packet one-way delay: 53.700 ms  
Loss rate: 0.26%

Run 2: Report of Verus — Data Link



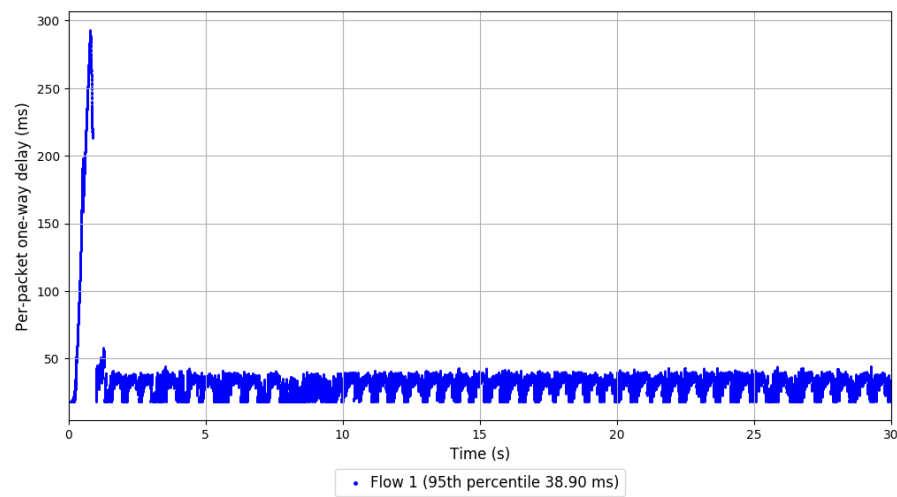
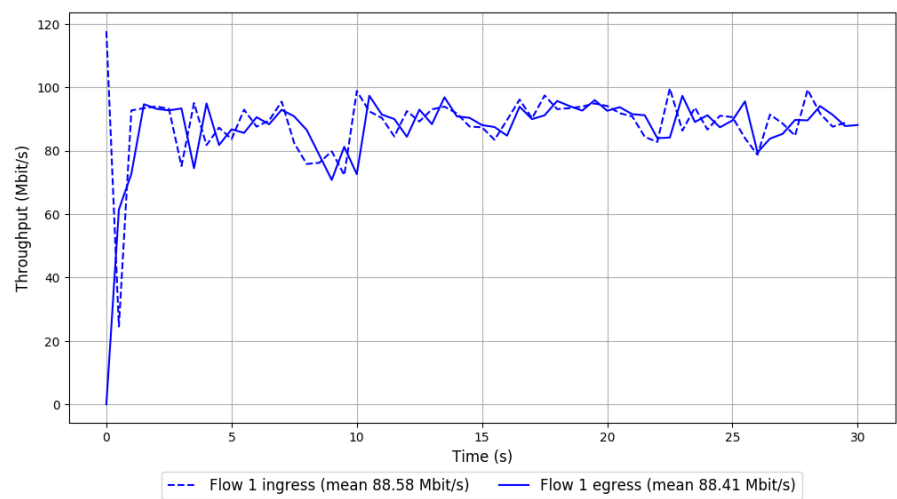


Run 3: Statistics of Verus

Start at: 2019-02-11 23:28:06  
End at: 2019-02-11 23:28:36  
Local clock offset: 7.611 ms  
Remote clock offset: -5.581 ms

# Below is generated by plot.py at 2019-02-12 00:50:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 88.41 Mbit/s  
95th percentile per-packet one-way delay: 38.896 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 88.41 Mbit/s  
95th percentile per-packet one-way delay: 38.896 ms  
Loss rate: 0.27%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-02-11 23:53:10

End at: 2019-02-11 23:53:40

Local clock offset: -0.722 ms

Remote clock offset: -6.91 ms

# Below is generated by plot.py at 2019-02-12 00:50:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.23 Mbit/s

95th percentile per-packet one-way delay: 52.307 ms

Loss rate: 0.30%

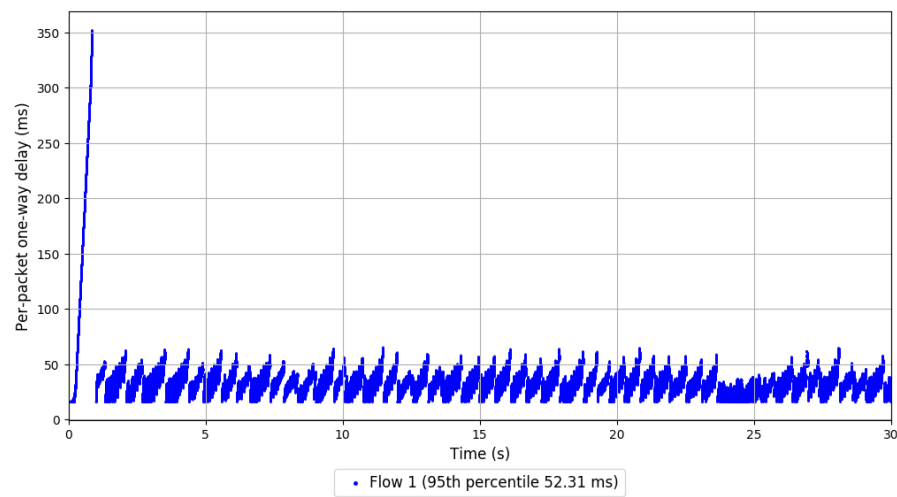
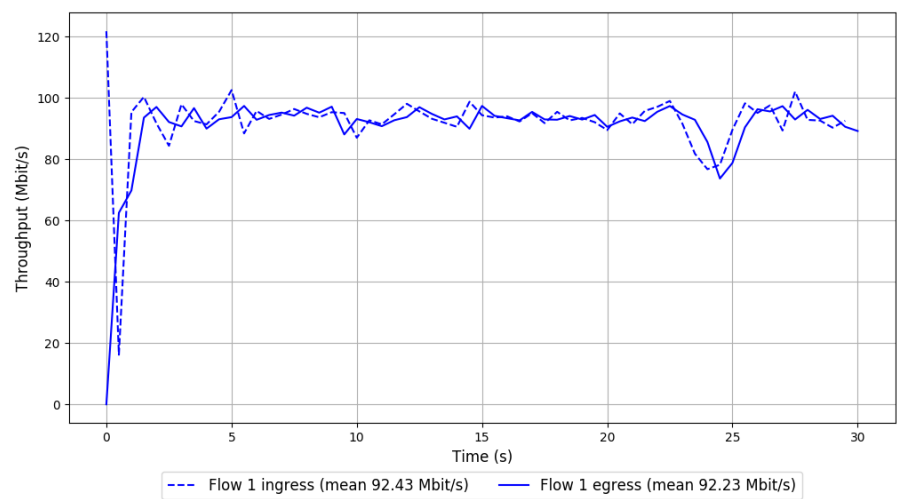
-- Flow 1:

Average throughput: 92.23 Mbit/s

95th percentile per-packet one-way delay: 52.307 ms

Loss rate: 0.30%

Run 4: Report of Verus — Data Link

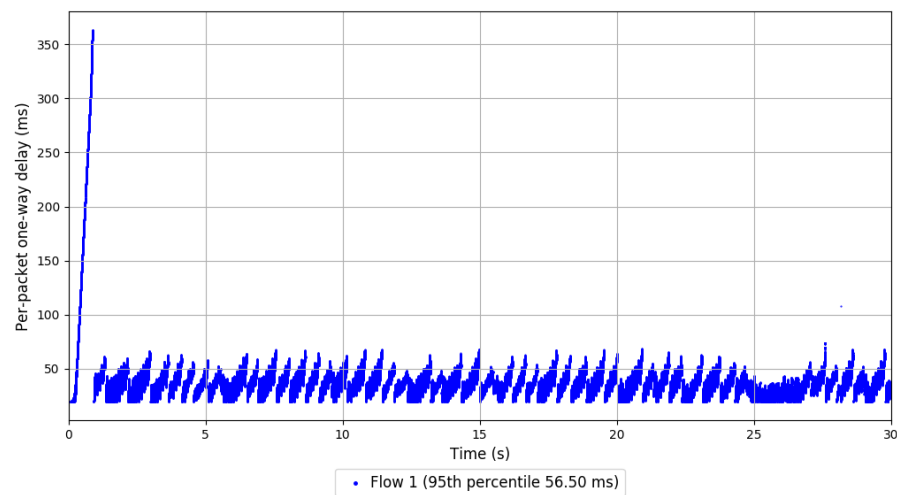
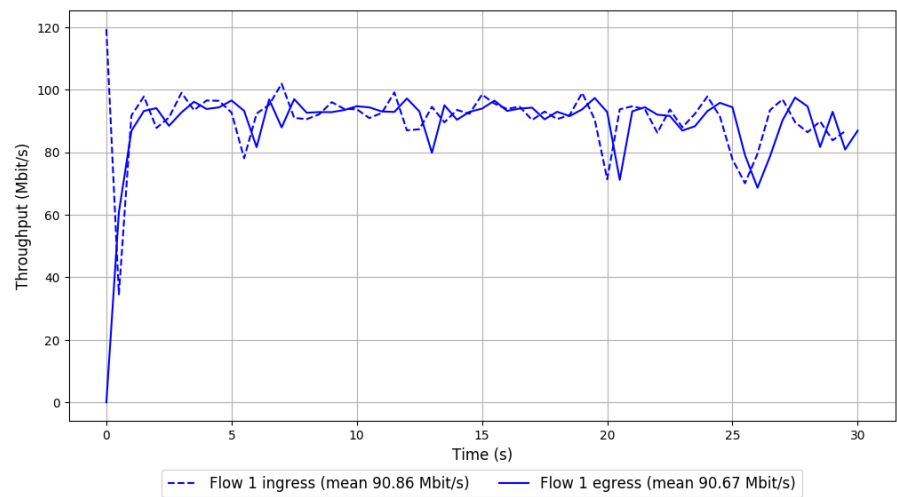


Run 5: Statistics of Verus

Start at: 2019-02-12 00:18:10  
End at: 2019-02-12 00:18:40  
Local clock offset: 0.326 ms  
Remote clock offset: -7.221 ms

# Below is generated by plot.py at 2019-02-12 00:51:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.67 Mbit/s  
95th percentile per-packet one-way delay: 56.500 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 90.67 Mbit/s  
95th percentile per-packet one-way delay: 56.500 ms  
Loss rate: 0.28%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-02-11 22:54:55

End at: 2019-02-11 22:55:25

Local clock offset: 4.265 ms

Remote clock offset: -3.943 ms

# Below is generated by plot.py at 2019-02-12 00:51:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.85 Mbit/s

95th percentile per-packet one-way delay: 16.271 ms

Loss rate: 0.09%

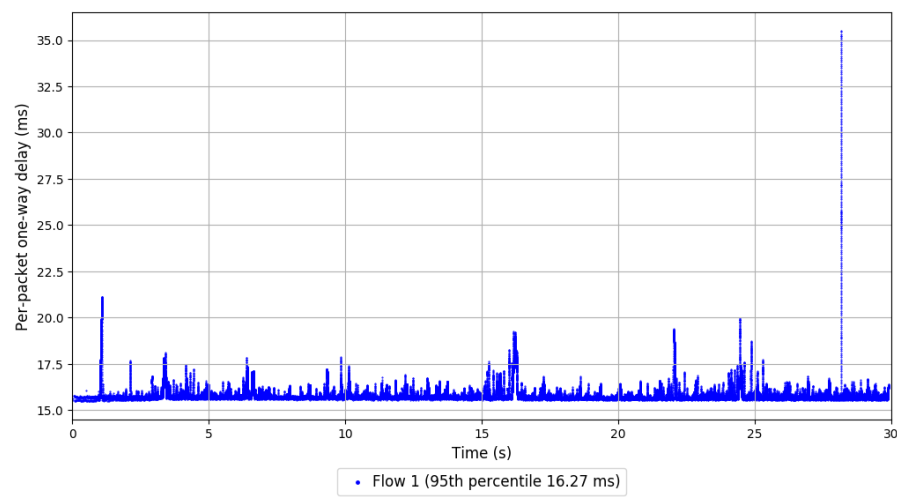
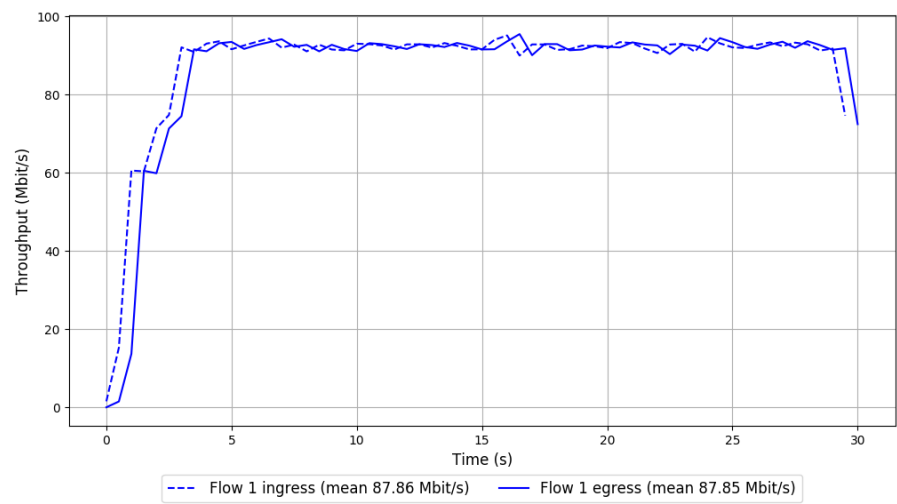
-- Flow 1:

Average throughput: 87.85 Mbit/s

95th percentile per-packet one-way delay: 16.271 ms

Loss rate: 0.09%

Run 1: Report of PCC-Vivace — Data Link



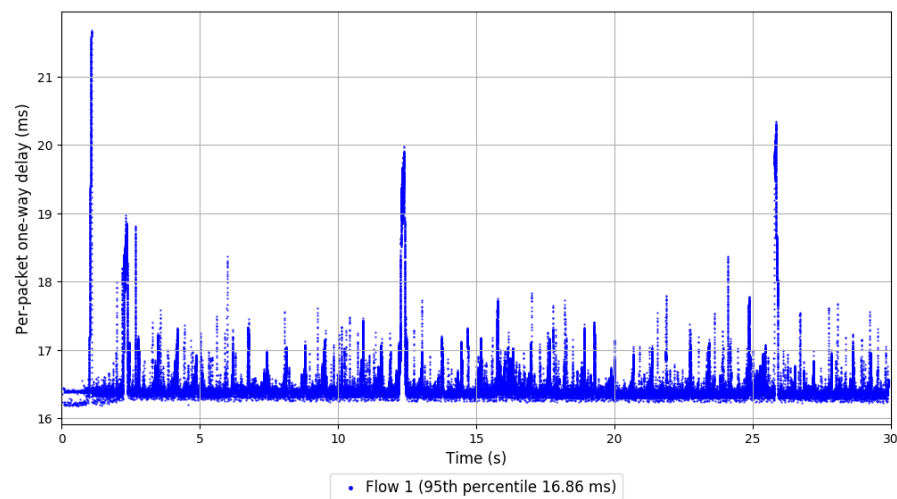
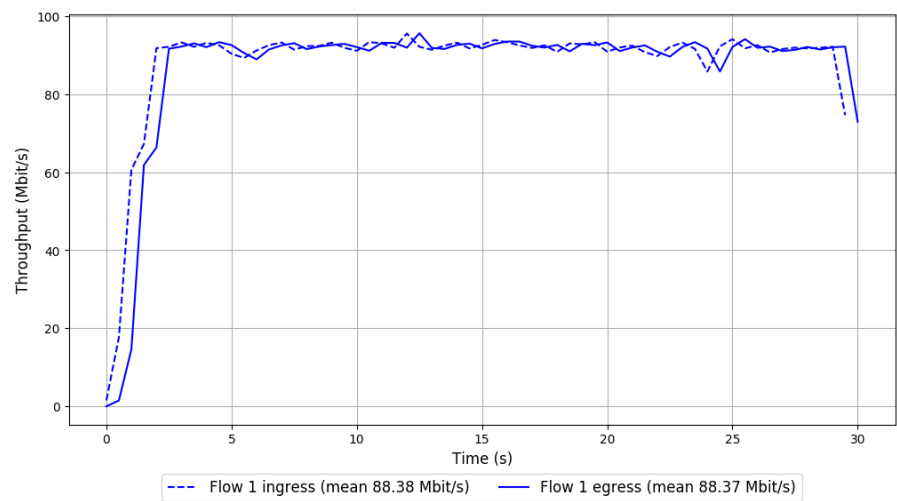


Run 2: Statistics of PCC-Vivace

Start at: 2019-02-11 23:19:49  
End at: 2019-02-11 23:20:19  
Local clock offset: 6.361 ms  
Remote clock offset: -4.536 ms

# Below is generated by plot.py at 2019-02-12 00:51:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 88.37 Mbit/s  
95th percentile per-packet one-way delay: 16.861 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 88.37 Mbit/s  
95th percentile per-packet one-way delay: 16.861 ms  
Loss rate: 0.09%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-02-11 23:44:47

End at: 2019-02-11 23:45:17

Local clock offset: 3.378 ms

Remote clock offset: -6.42 ms

# Below is generated by plot.py at 2019-02-12 00:51:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.44 Mbit/s

95th percentile per-packet one-way delay: 19.375 ms

Loss rate: 0.09%

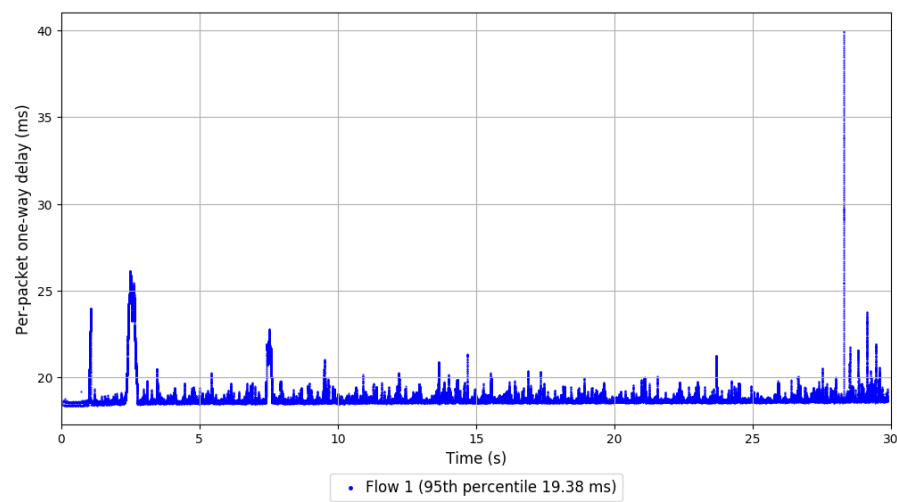
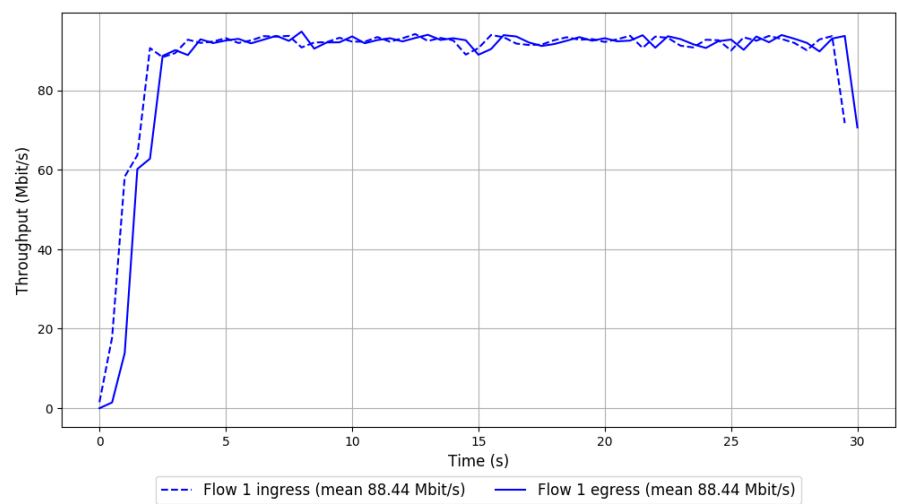
-- Flow 1:

Average throughput: 88.44 Mbit/s

95th percentile per-packet one-way delay: 19.375 ms

Loss rate: 0.09%

Run 3: Report of PCC-Vivace — Data Link

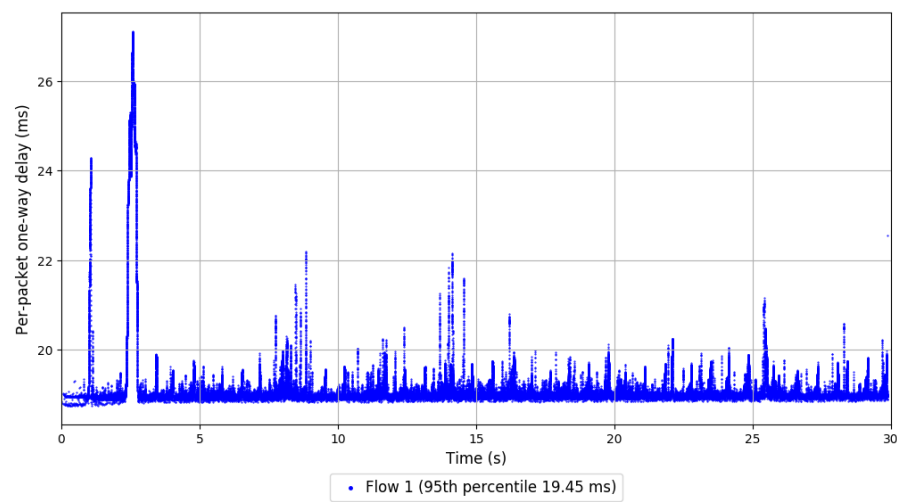
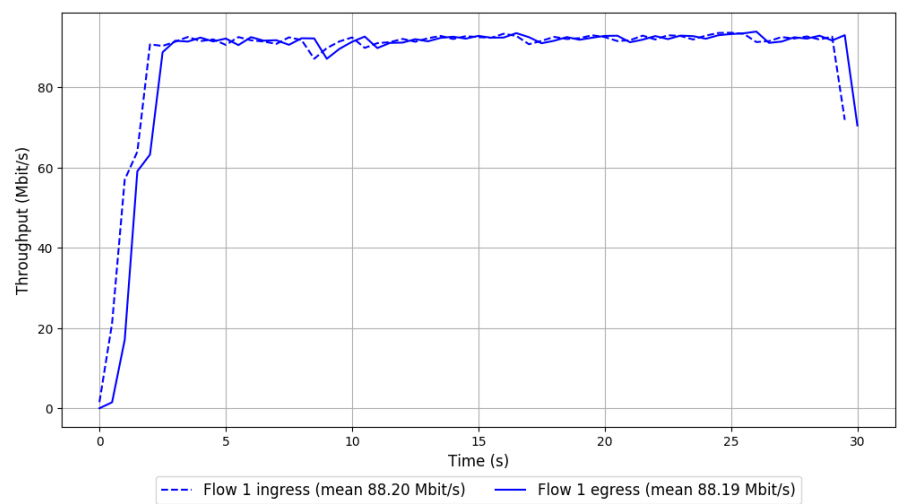


Run 4: Statistics of PCC-Vivace

Start at: 2019-02-12 00:09:45  
End at: 2019-02-12 00:10:15  
Local clock offset: 0.384 ms  
Remote clock offset: -7.294 ms

# Below is generated by plot.py at 2019-02-12 00:51:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 88.19 Mbit/s  
95th percentile per-packet one-way delay: 19.451 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 88.19 Mbit/s  
95th percentile per-packet one-way delay: 19.451 ms  
Loss rate: 0.09%

Run 4: Report of PCC-Vivace — Data Link

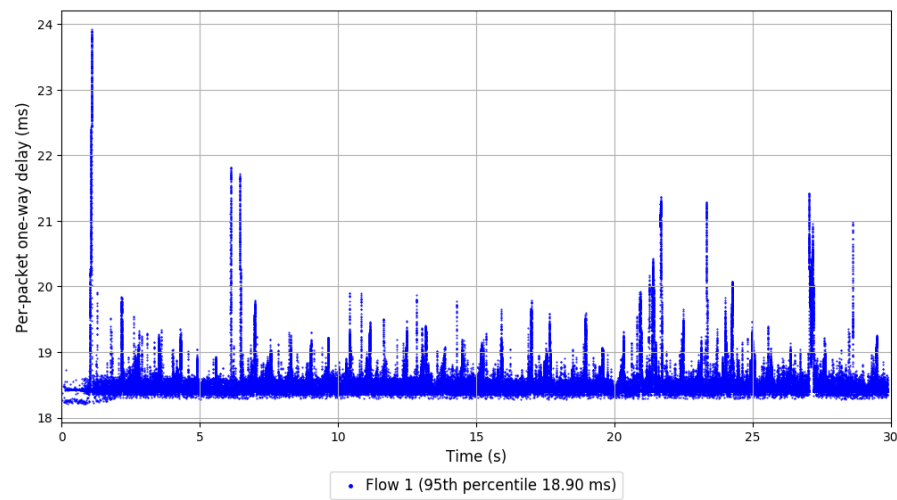
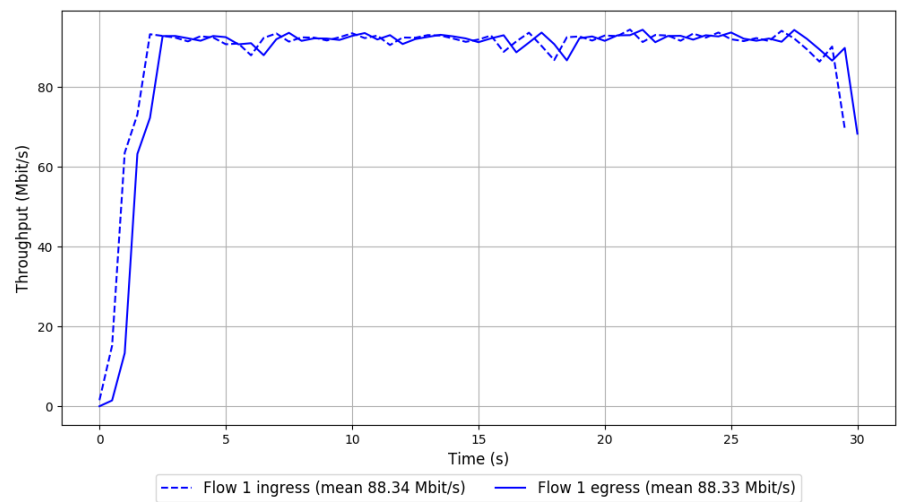


Run 5: Statistics of PCC-Vivace

Start at: 2019-02-12 00:35:01  
End at: 2019-02-12 00:35:31  
Local clock offset: -0.507 ms  
Remote clock offset: -6.281 ms

# Below is generated by plot.py at 2019-02-12 00:51:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 88.33 Mbit/s  
95th percentile per-packet one-way delay: 18.896 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 88.33 Mbit/s  
95th percentile per-packet one-way delay: 18.896 ms  
Loss rate: 0.09%

Run 5: Report of PCC-Vivace — Data Link



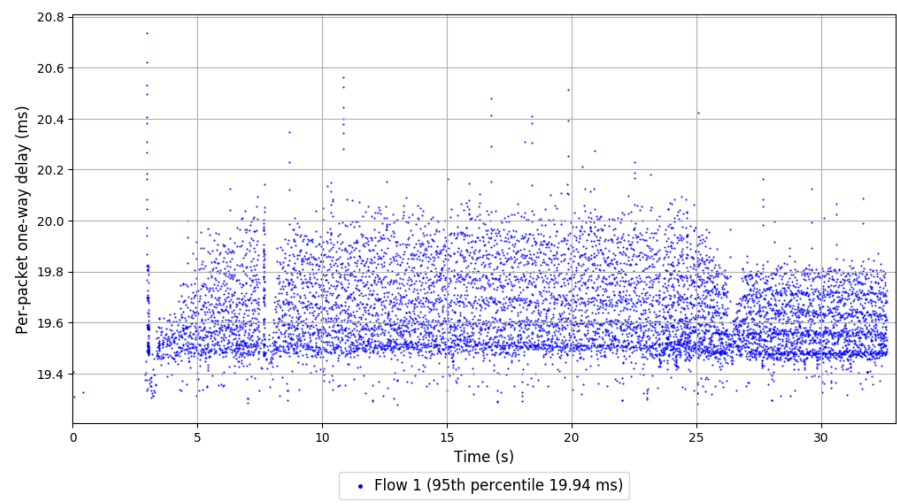
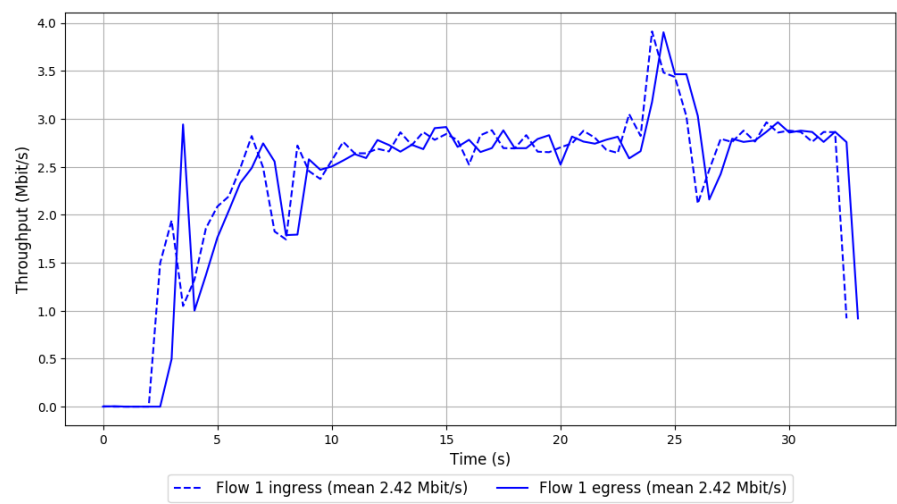


Run 1: Statistics of WebRTC media

Start at: 2019-02-11 22:31:09  
End at: 2019-02-11 22:31:39  
Local clock offset: 1.286 ms  
Remote clock offset: -4.753 ms

# Below is generated by plot.py at 2019-02-12 00:51:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.42 Mbit/s  
95th percentile per-packet one-way delay: 19.942 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 2.42 Mbit/s  
95th percentile per-packet one-way delay: 19.942 ms  
Loss rate: 0.13%

Run 1: Report of WebRTC media — Data Link

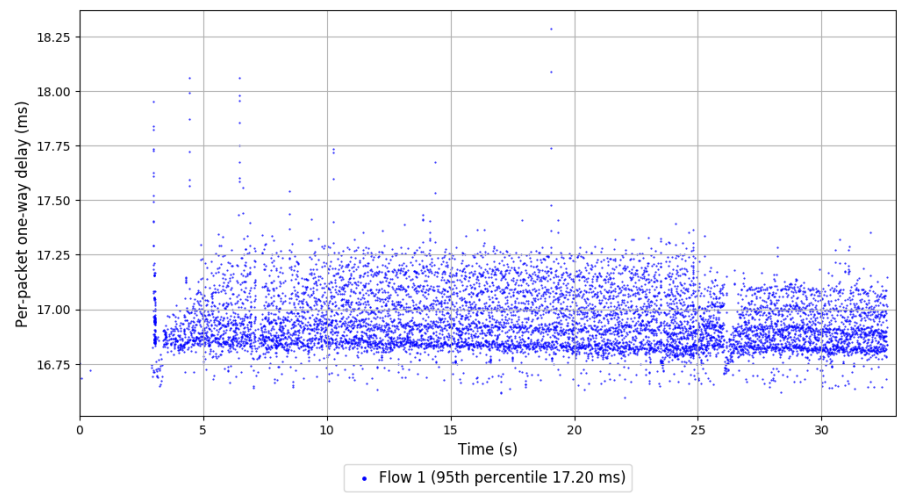
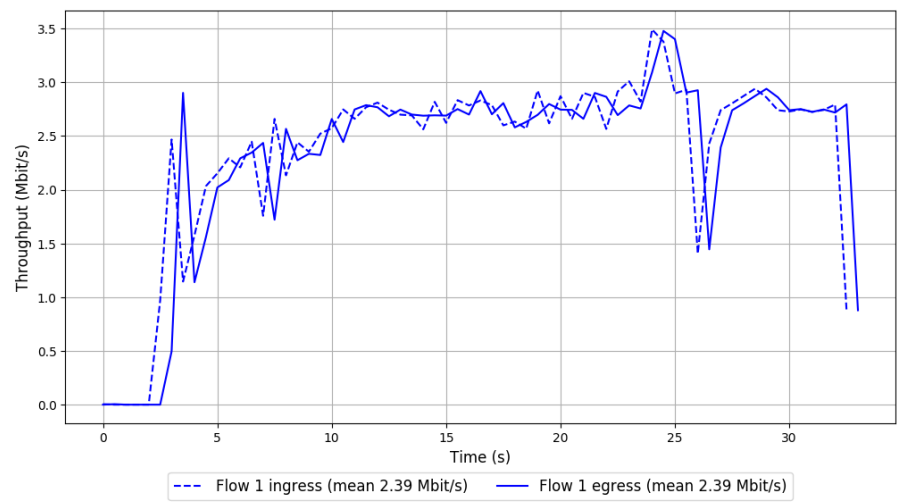


Run 2: Statistics of WebRTC media

Start at: 2019-02-11 22:56:06  
End at: 2019-02-11 22:56:36  
Local clock offset: 6.104 ms  
Remote clock offset: -3.389 ms

# Below is generated by plot.py at 2019-02-12 00:51:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.39 Mbit/s  
95th percentile per-packet one-way delay: 17.202 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 2.39 Mbit/s  
95th percentile per-packet one-way delay: 17.202 ms  
Loss rate: 0.06%

Run 2: Report of WebRTC media — Data Link

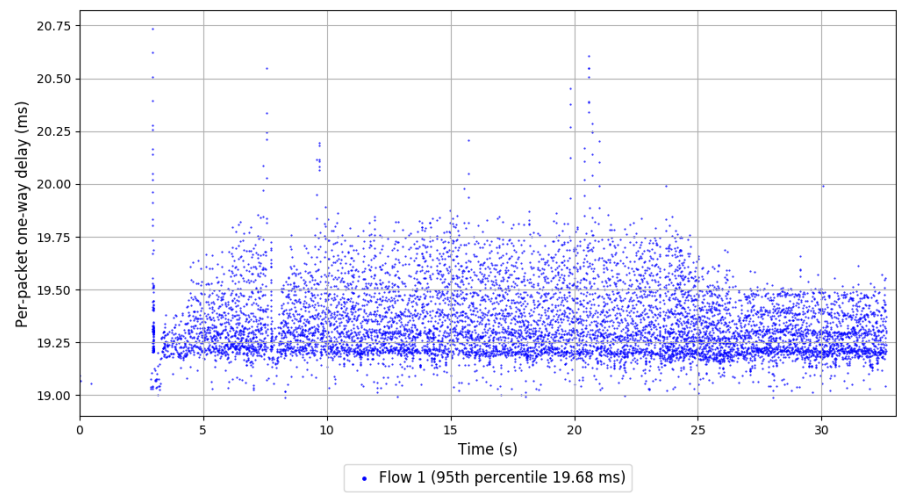
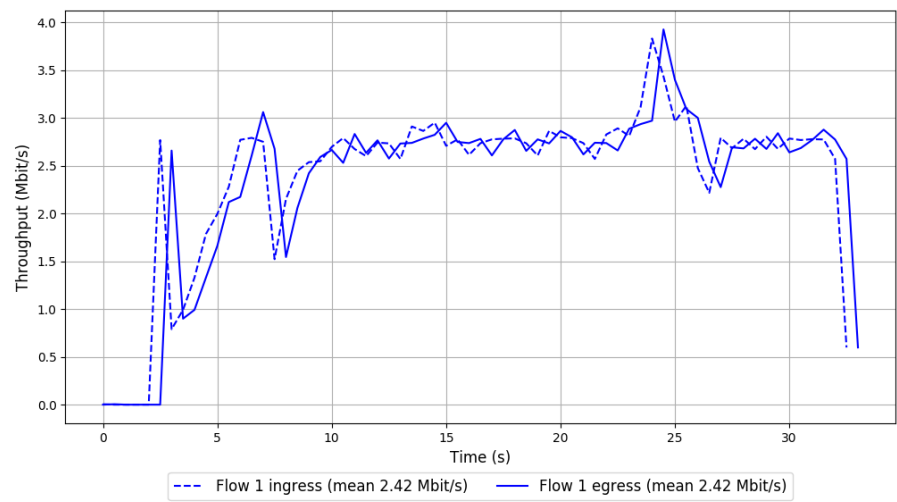


Run 3: Statistics of WebRTC media

Start at: 2019-02-11 23:21:00  
End at: 2019-02-11 23:21:30  
Local clock offset: 7.481 ms  
Remote clock offset: -6.298 ms

# Below is generated by plot.py at 2019-02-12 00:51:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.42 Mbit/s  
95th percentile per-packet one-way delay: 19.676 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 2.42 Mbit/s  
95th percentile per-packet one-way delay: 19.676 ms  
Loss rate: 0.06%

Run 3: Report of WebRTC media — Data Link

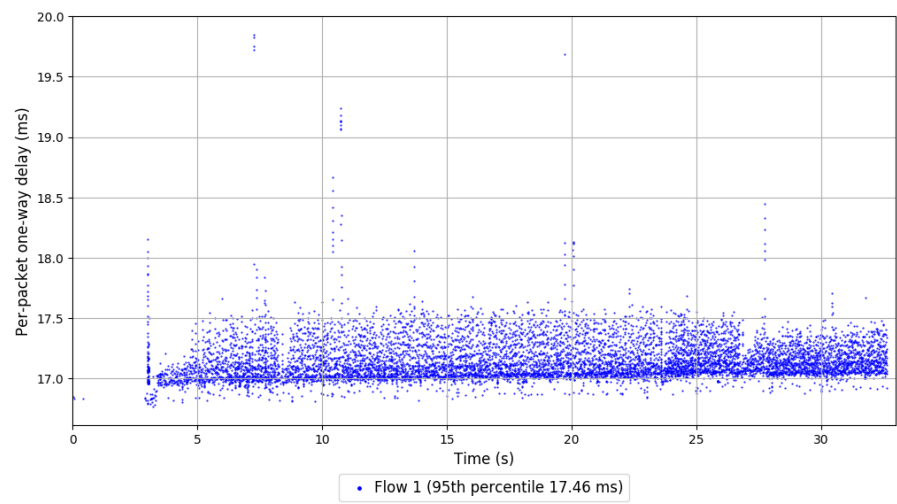
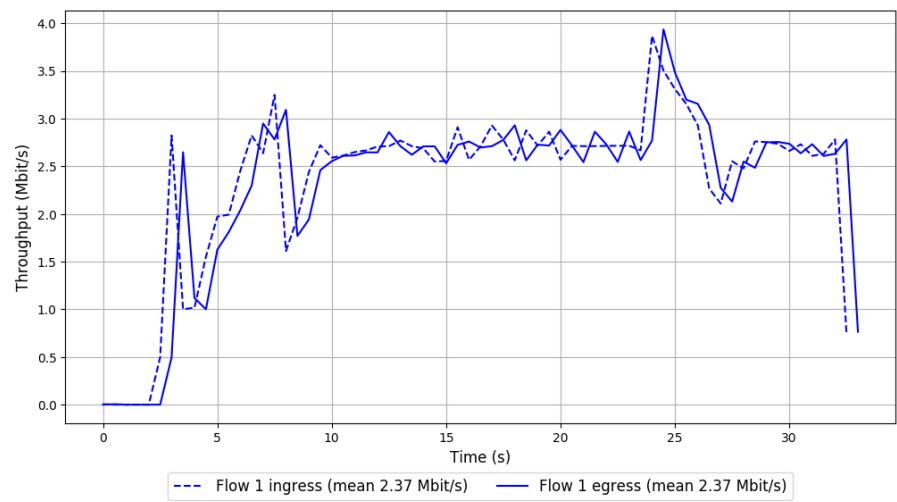


Run 4: Statistics of WebRTC media

Start at: 2019-02-11 23:46:02  
End at: 2019-02-11 23:46:32  
Local clock offset: 1.81 ms  
Remote clock offset: -6.129 ms

# Below is generated by plot.py at 2019-02-12 00:51:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.37 Mbit/s  
95th percentile per-packet one-way delay: 17.457 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 2.37 Mbit/s  
95th percentile per-packet one-way delay: 17.457 ms  
Loss rate: 0.07%

Run 4: Report of WebRTC media — Data Link





Run 5: Statistics of WebRTC media

Start at: 2019-02-12 00:10:58  
End at: 2019-02-12 00:11:28  
Local clock offset: 1.116 ms  
Remote clock offset: -5.998 ms

# Below is generated by plot.py at 2019-02-12 00:51:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.40 Mbit/s  
95th percentile per-packet one-way delay: 18.920 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 2.40 Mbit/s  
95th percentile per-packet one-way delay: 18.920 ms  
Loss rate: 0.06%

Run 5: Report of WebRTC media — Data Link

