

## Pantheon Report

Generated at 2019-11-24 15:43:14 (UTC).

Data path: Stanford on `eno1` (*remote*) → AWS California 1 on `ens5` (*local*).

Repeated the test of 24 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

### System info:

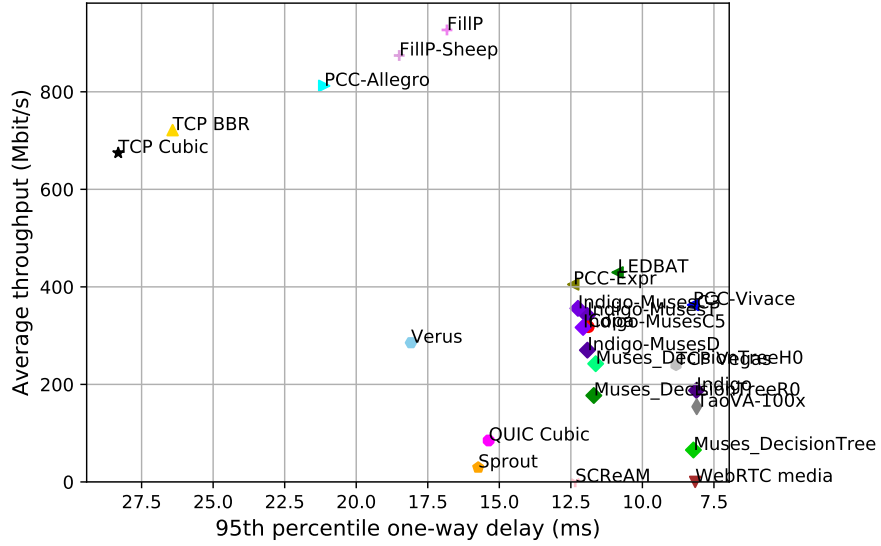
```
Linux 4.15.0-1051-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

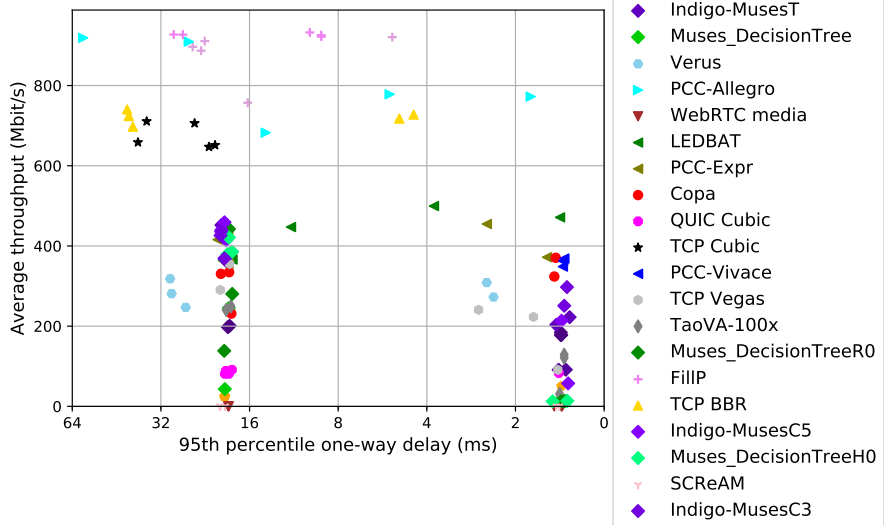
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
```

third\_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4  
third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

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



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



scheme	# runs	mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate (%)
		flow 1	flow 1	flow 1
TCP BBR	5	721.45	26.42	0.07
Copa	5	318.10	11.89	0.04
TCP Cubic	5	674.71	28.32	0.08
FillP	5	926.83	16.83	0.04
FillP-Sheep	5	874.46	18.50	0.06
Indigo	5	187.65	8.11	0.03
Indigo-MusesC3	5	355.93	12.25	0.05
Indigo-MusesC5	5	316.82	12.07	0.05
Indigo-MusesD	5	270.23	11.92	0.05
Indigo-MusesT	5	341.51	11.93	0.04
LEDBAT	5	429.63	10.87	0.04
Muses_DecisionTree	5	65.49	8.22	0.03
Muses_DecisionTreeH0	5	242.42	11.63	0.05
Muses_DecisionTreeR0	5	177.22	11.70	0.03
PCC-Allegro	5	812.23	21.12	0.03
PCC-Expr	5	405.00	12.42	0.05
QUIC Cubic	5	84.98	15.37	0.06
SCReAM	5	0.22	12.35	0.05
Sprout	5	29.66	15.74	0.07
TaoVA-100x	5	154.22	8.10	0.02
TCP Vegas	5	240.06	8.82	0.03
Verus	5	285.48	18.09	0.06
PCC-Vivace	5	363.02	8.23	0.08
WebRTC media	5	0.05	8.16	0.02

Run 1: Statistics of TCP BBR

Start at: 2019-11-24 11:48:35

End at: 2019-11-24 11:49:05

Local clock offset: 3.548 ms

Remote clock offset: -3.881 ms

# Below is generated by plot.py at 2019-11-24 14:45:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 727.66 Mbit/s

95th percentile per-packet one-way delay: 4.435 ms

Loss rate: 0.02%

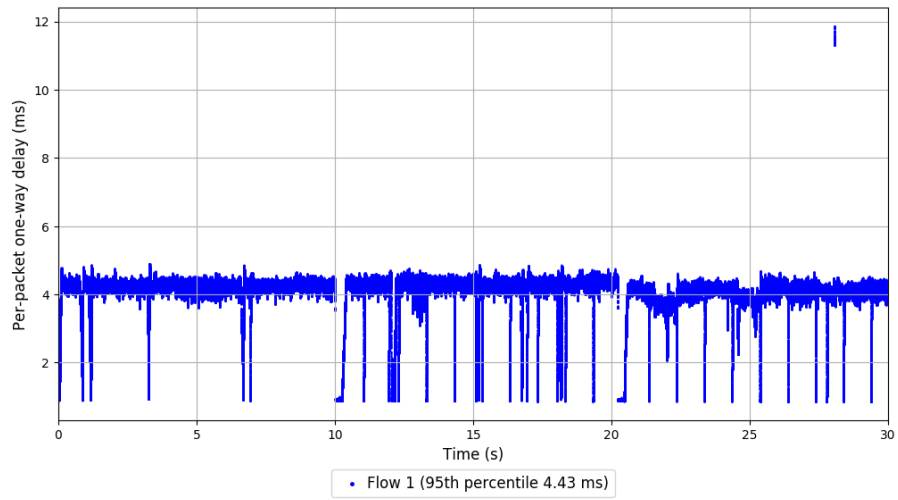
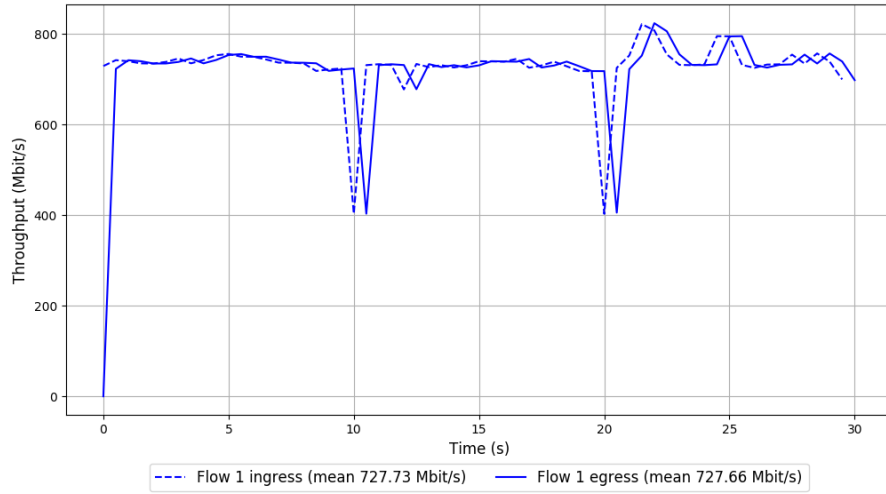
-- Flow 1:

Average throughput: 727.66 Mbit/s

95th percentile per-packet one-way delay: 4.435 ms

Loss rate: 0.02%

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



Run 2: Statistics of TCP BBR

Start at: 2019-11-24 12:22:21

End at: 2019-11-24 12:22:51

Local clock offset: 3.417 ms

Remote clock offset: -3.156 ms

# Below is generated by plot.py at 2019-11-24 14:45:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 740.46 Mbit/s

95th percentile per-packet one-way delay: 41.669 ms

Loss rate: 0.14%

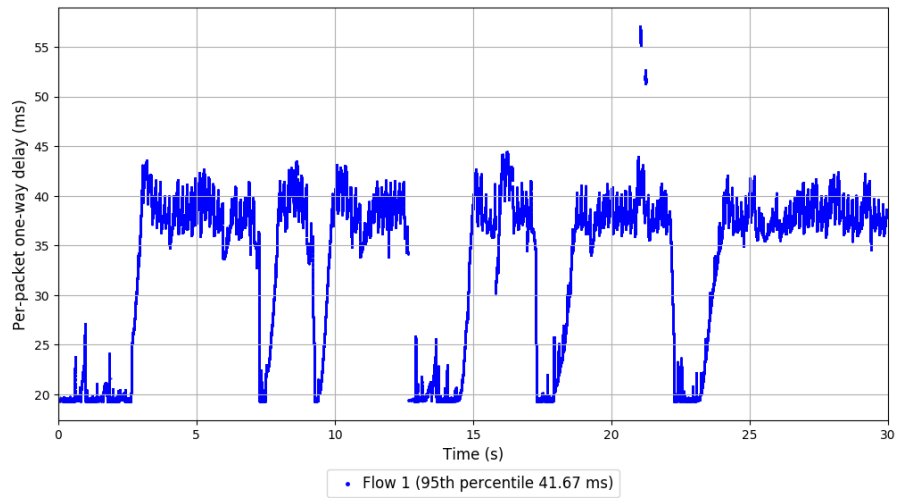
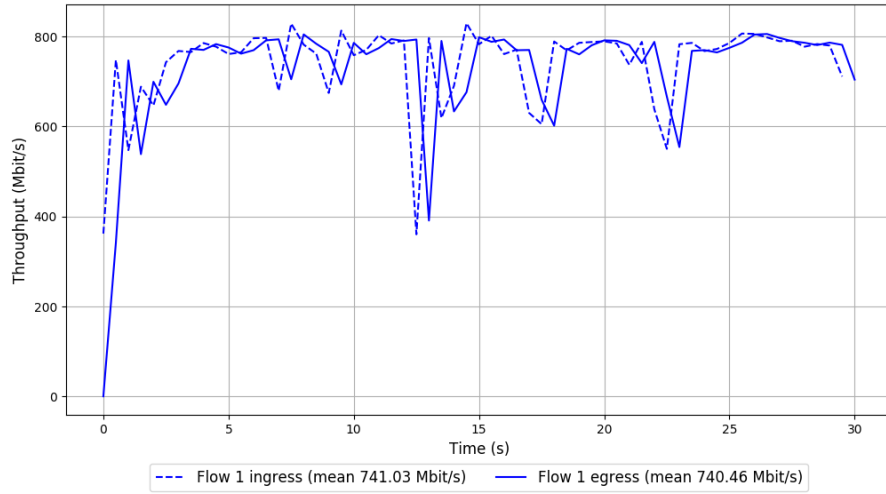
-- Flow 1:

Average throughput: 740.46 Mbit/s

95th percentile per-packet one-way delay: 41.669 ms

Loss rate: 0.14%

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





Run 3: Statistics of TCP BBR

Start at: 2019-11-24 12:56:13

End at: 2019-11-24 12:56:43

Local clock offset: 2.762 ms

Remote clock offset: 6.427 ms

# Below is generated by plot.py at 2019-11-24 14:45:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 697.51 Mbit/s

95th percentile per-packet one-way delay: 39.857 ms

Loss rate: 0.05%

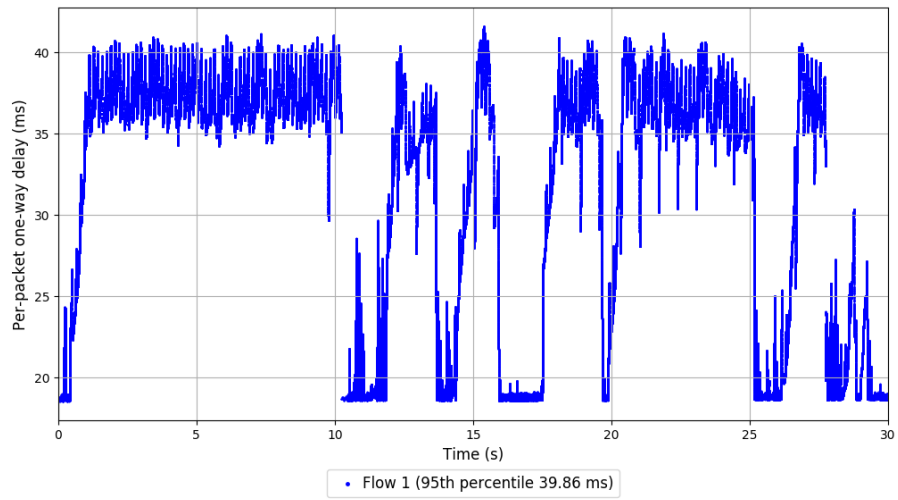
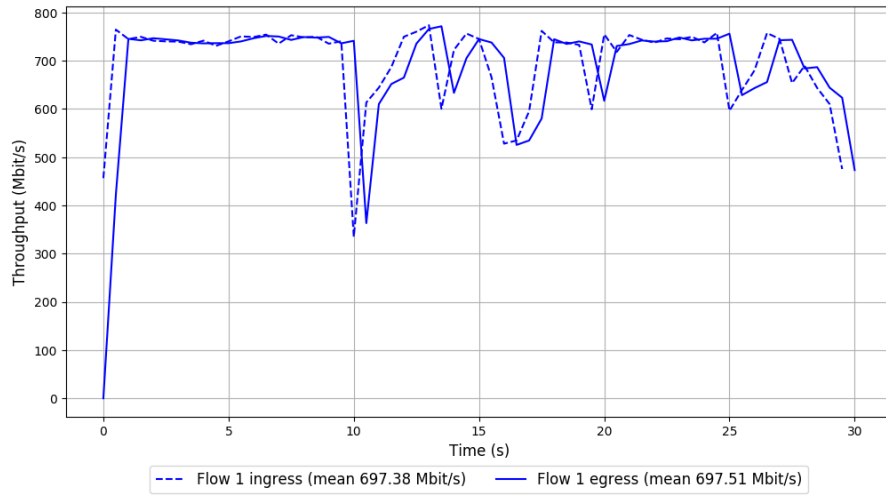
-- Flow 1:

Average throughput: 697.51 Mbit/s

95th percentile per-packet one-way delay: 39.857 ms

Loss rate: 0.05%

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



Run 4: Statistics of TCP BBR

Start at: 2019-11-24 13:30:12

End at: 2019-11-24 13:30:42

Local clock offset: 3.596 ms

Remote clock offset: 4.945 ms

# Below is generated by plot.py at 2019-11-24 14:45:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 717.59 Mbit/s

95th percentile per-packet one-way delay: 4.961 ms

Loss rate: 0.02%

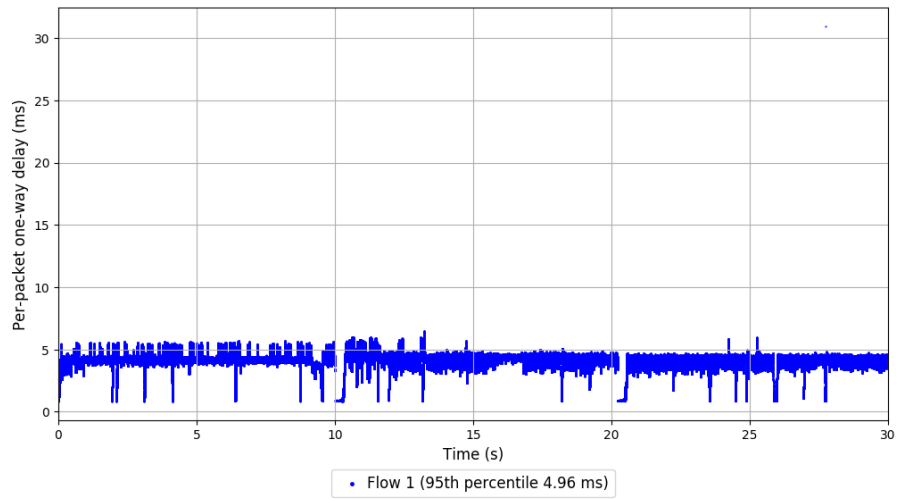
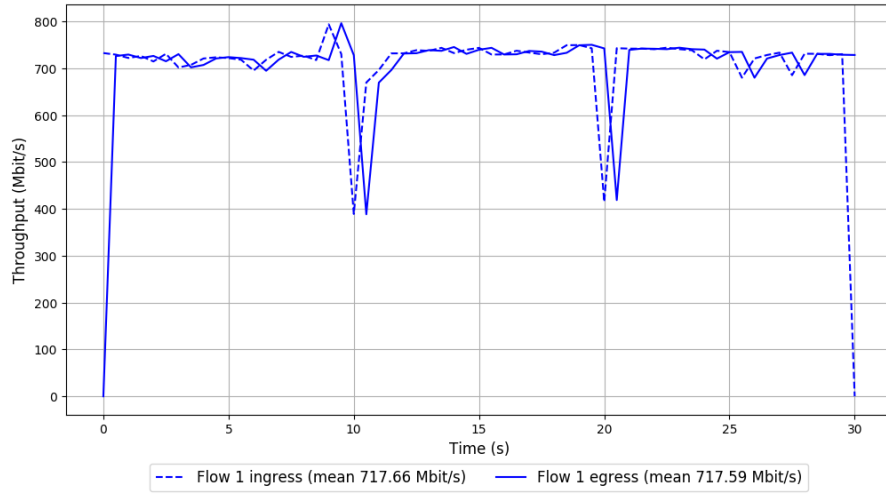
-- Flow 1:

Average throughput: 717.59 Mbit/s

95th percentile per-packet one-way delay: 4.961 ms

Loss rate: 0.02%

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



Run 5: Statistics of TCP BBR

Start at: 2019-11-24 14:04:08

End at: 2019-11-24 14:04:38

Local clock offset: 3.644 ms

Remote clock offset: -3.888 ms

# Below is generated by plot.py at 2019-11-24 14:45:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 724.01 Mbit/s

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

Loss rate: 0.14%

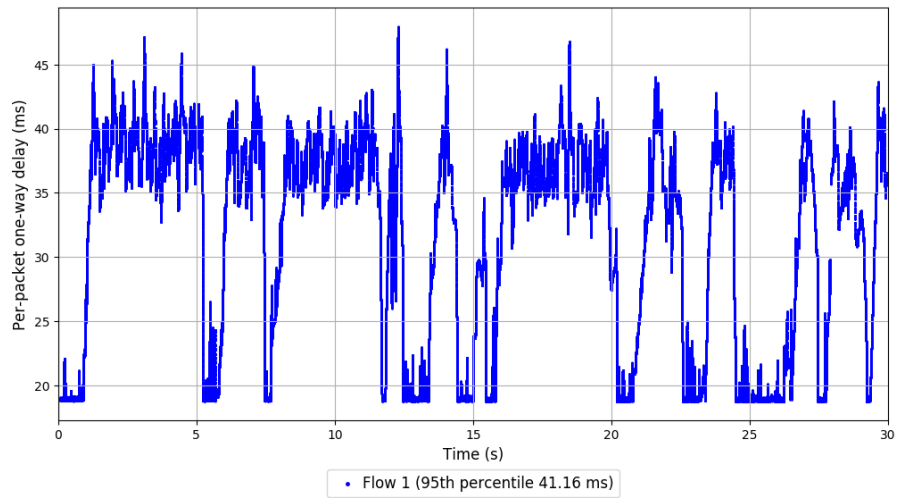
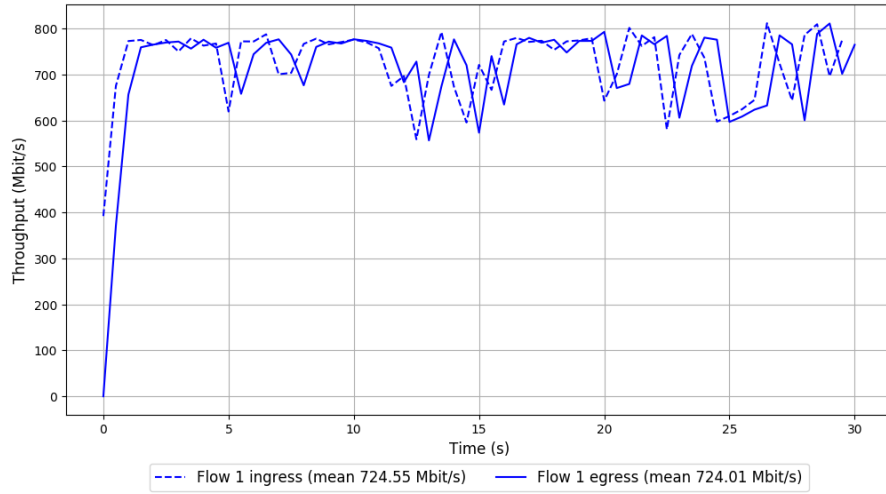
-- Flow 1:

Average throughput: 724.01 Mbit/s

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

Loss rate: 0.14%

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



Run 1: Statistics of Copa

Start at: 2019-11-24 12:12:29

End at: 2019-11-24 12:12:59

Local clock offset: 3.851 ms

Remote clock offset: -3.146 ms

# Below is generated by plot.py at 2019-11-24 14:45:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 334.51 Mbit/s

95th percentile per-packet one-way delay: 18.768 ms

Loss rate: 0.06%

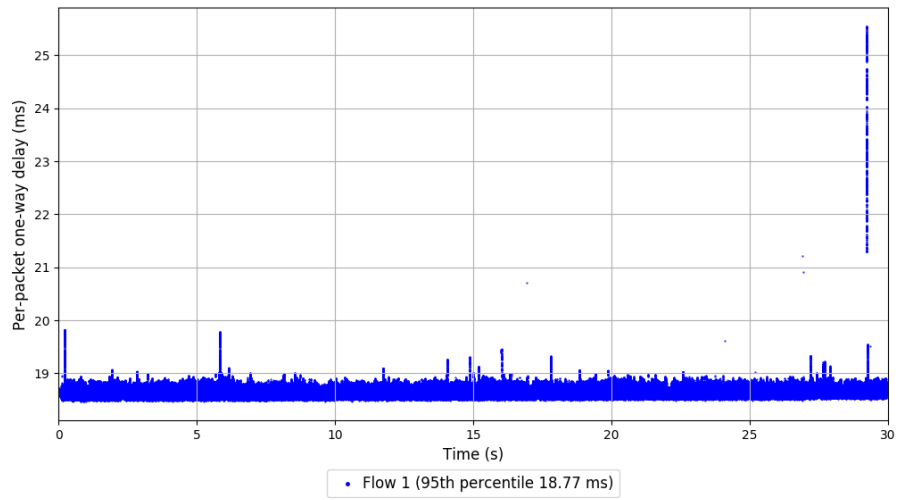
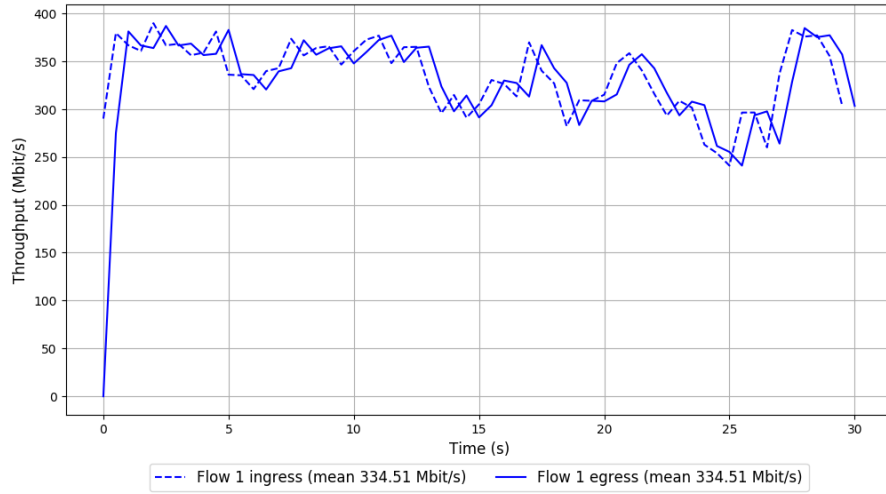
-- Flow 1:

Average throughput: 334.51 Mbit/s

95th percentile per-packet one-way delay: 18.768 ms

Loss rate: 0.06%

### Run 1: Report of Copa — Data Link





Run 2: Statistics of Copa

Start at: 2019-11-24 12:46:06

End at: 2019-11-24 12:46:36

Local clock offset: 2.944 ms

Remote clock offset: 4.622 ms

# Below is generated by plot.py at 2019-11-24 14:45:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 330.44 Mbit/s

95th percentile per-packet one-way delay: 20.013 ms

Loss rate: 0.06%

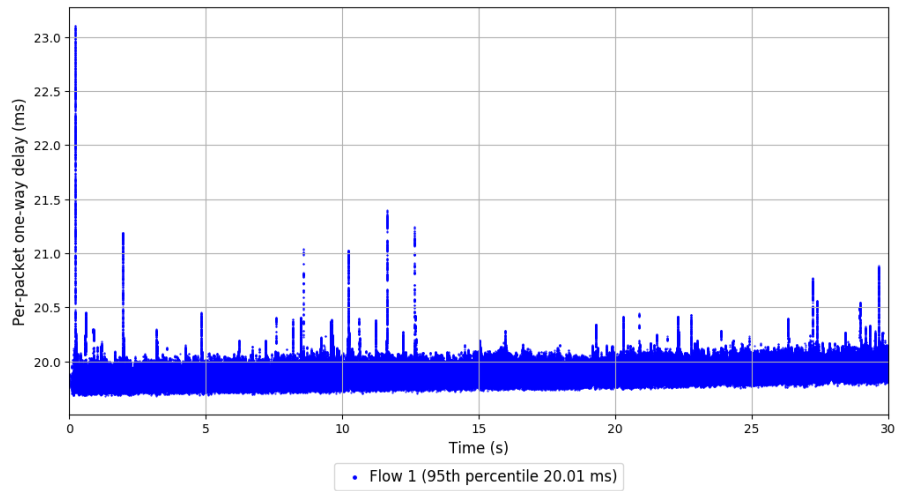
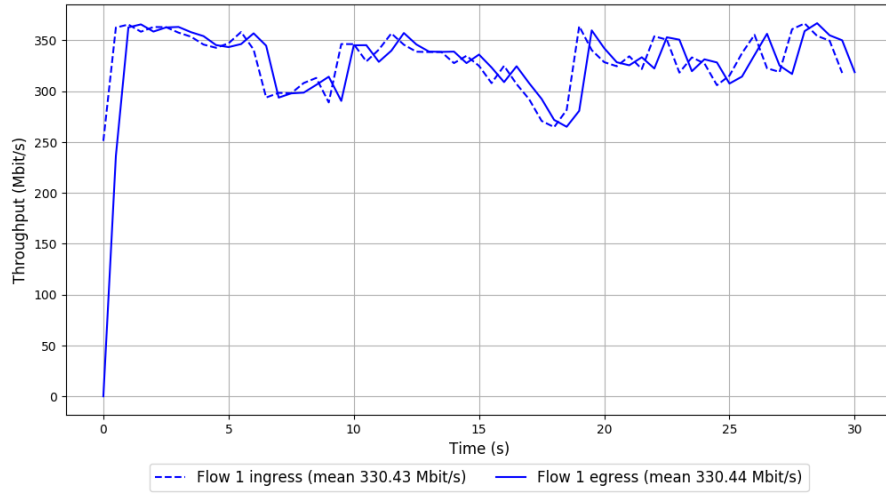
-- Flow 1:

Average throughput: 330.44 Mbit/s

95th percentile per-packet one-way delay: 20.013 ms

Loss rate: 0.06%

## Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-11-24 13:20:14

End at: 2019-11-24 13:20:44

Local clock offset: 3.368 ms

Remote clock offset: 4.478 ms

# Below is generated by plot.py at 2019-11-24 14:45:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 370.47 Mbit/s

95th percentile per-packet one-way delay: 1.092 ms

Loss rate: 0.00%

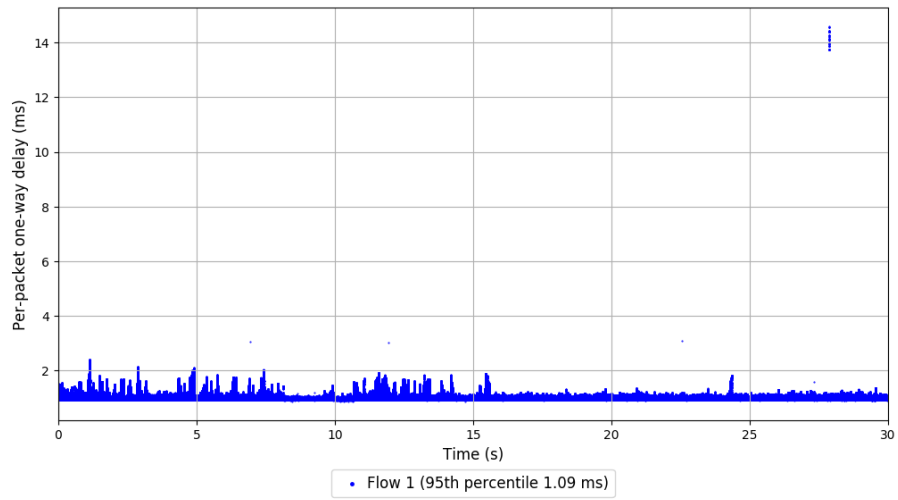
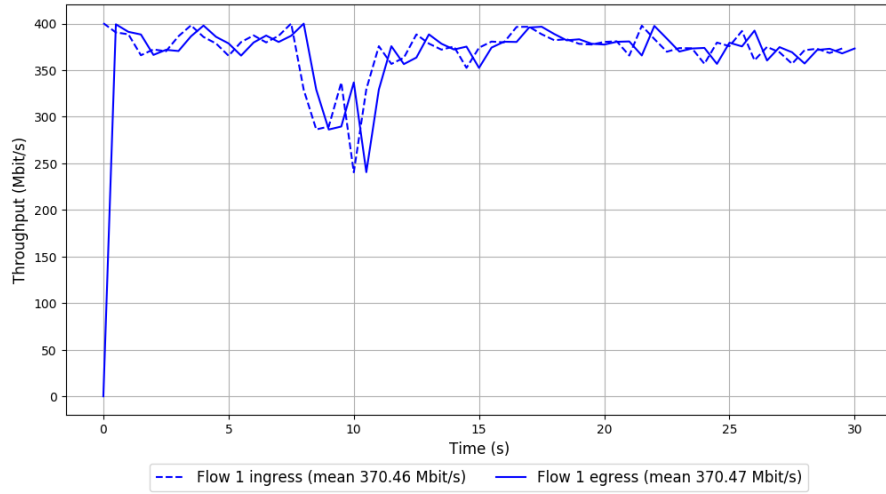
-- Flow 1:

Average throughput: 370.47 Mbit/s

95th percentile per-packet one-way delay: 1.092 ms

Loss rate: 0.00%

### Run 3: Report of Copa — Data Link

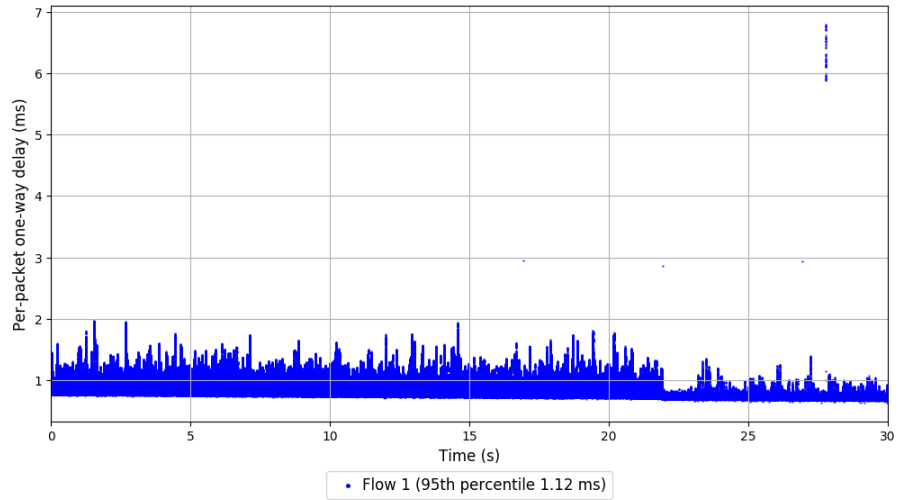
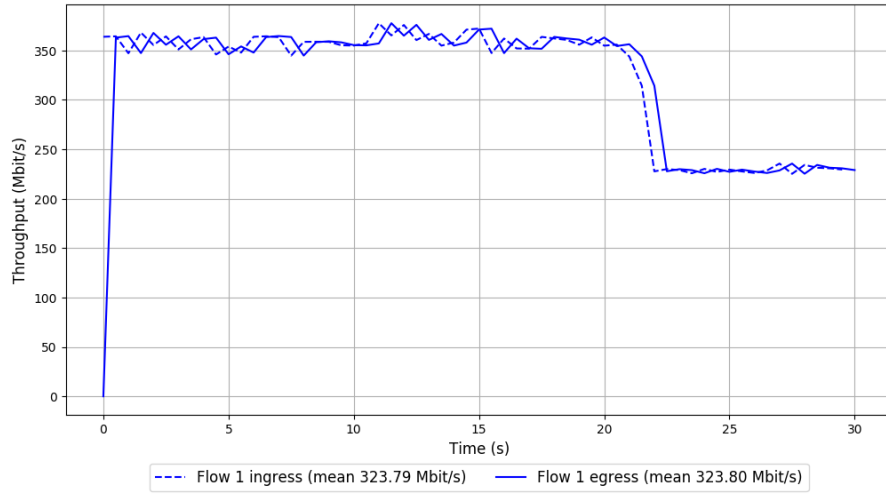


Run 4: Statistics of Copa

Start at: 2019-11-24 13:54:01  
End at: 2019-11-24 13:54:31  
Local clock offset: 3.621 ms  
Remote clock offset: -2.697 ms

# Below is generated by plot.py at 2019-11-24 14:51:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 323.80 Mbit/s  
95th percentile per-packet one-way delay: 1.123 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 323.80 Mbit/s  
95th percentile per-packet one-way delay: 1.123 ms  
Loss rate: 0.00%

### Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-11-24 14:28:18

End at: 2019-11-24 14:28:48

Local clock offset: 3.542 ms

Remote clock offset: -3.617 ms

# Below is generated by plot.py at 2019-11-24 14:51:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 231.26 Mbit/s

95th percentile per-packet one-way delay: 18.447 ms

Loss rate: 0.07%

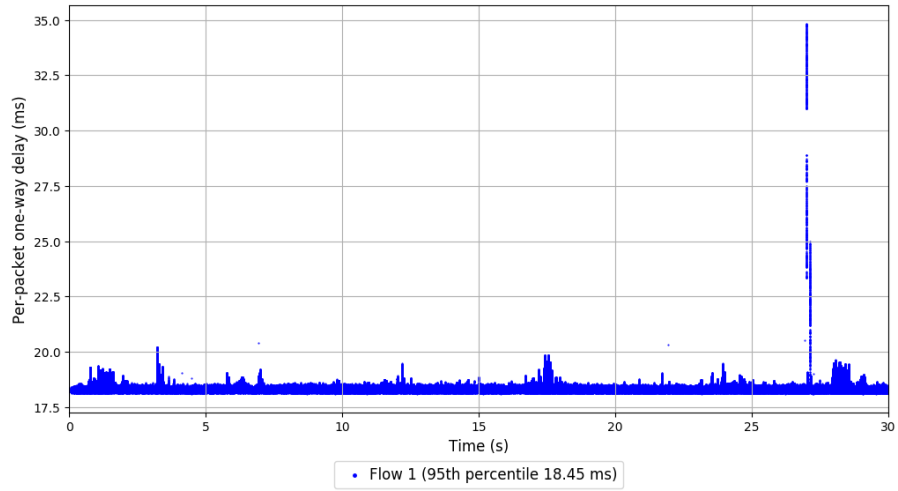
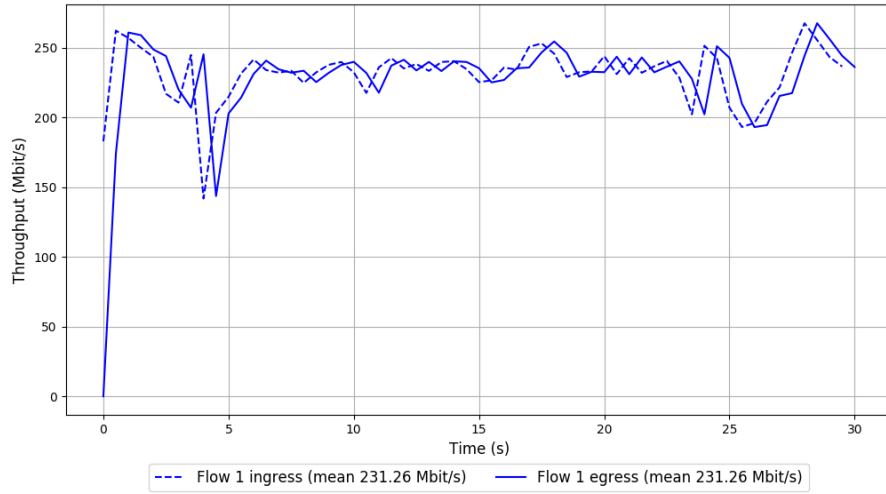
-- Flow 1:

Average throughput: 231.26 Mbit/s

95th percentile per-packet one-way delay: 18.447 ms

Loss rate: 0.07%

### Run 5: Report of Copa — Data Link



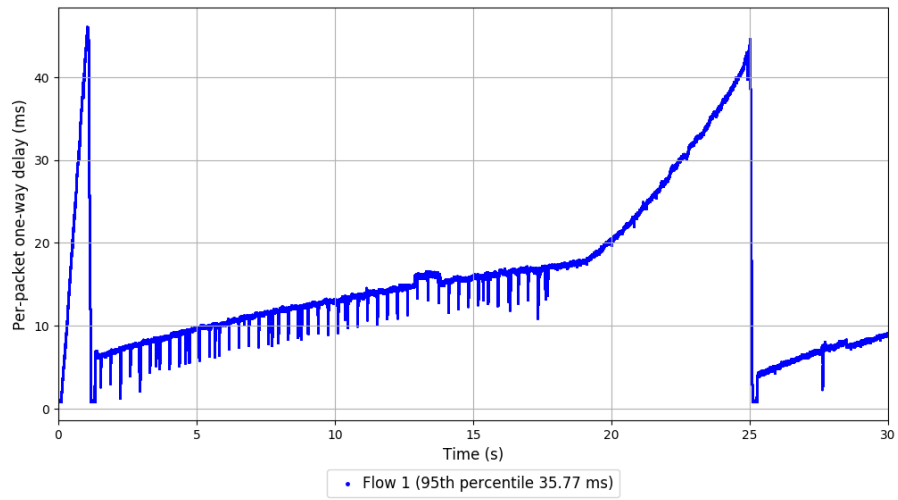
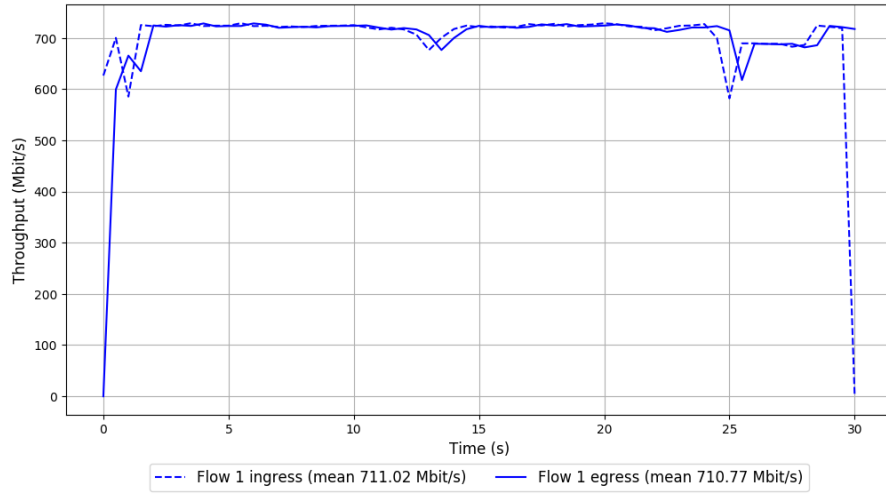


Run 1: Statistics of TCP Cubic

Start at: 2019-11-24 11:54:06  
End at: 2019-11-24 11:54:36  
Local clock offset: 3.798 ms  
Remote clock offset: -3.857 ms

# Below is generated by plot.py at 2019-11-24 14:52:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 710.77 Mbit/s  
95th percentile per-packet one-way delay: 35.769 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 710.77 Mbit/s  
95th percentile per-packet one-way delay: 35.769 ms  
Loss rate: 0.04%

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



Run 2: Statistics of TCP Cubic

Start at: 2019-11-24 12:27:46

End at: 2019-11-24 12:28:16

Local clock offset: 3.299 ms

Remote clock offset: -2.846 ms

# Below is generated by plot.py at 2019-11-24 14:52:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 647.07 Mbit/s

95th percentile per-packet one-way delay: 21.978 ms

Loss rate: 0.10%

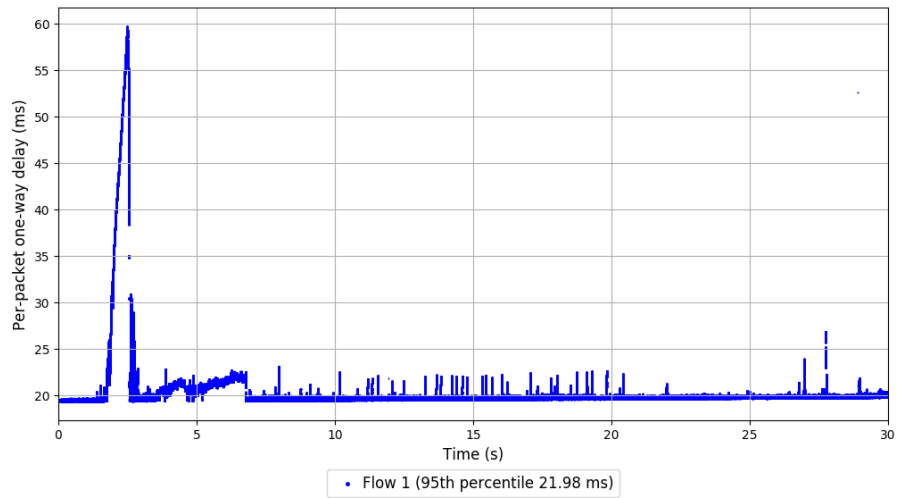
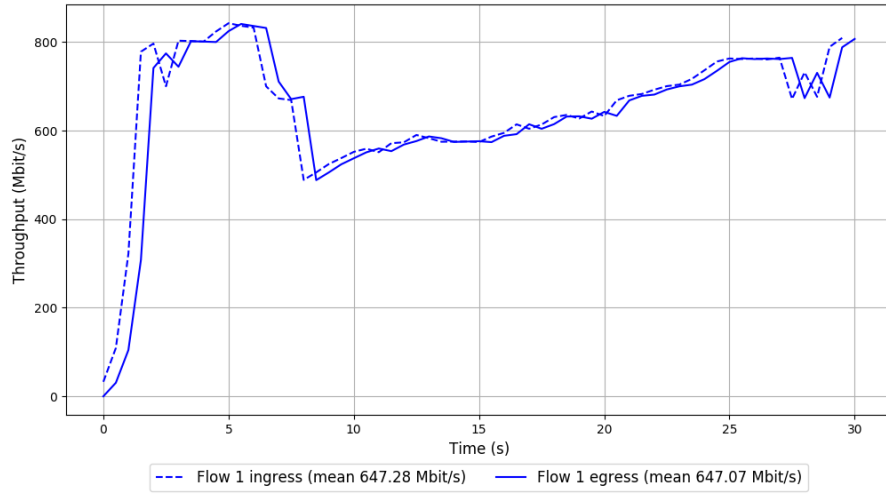
-- Flow 1:

Average throughput: 647.07 Mbit/s

95th percentile per-packet one-way delay: 21.978 ms

Loss rate: 0.10%

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



Run 3: Statistics of TCP Cubic

Start at: 2019-11-24 13:01:44

End at: 2019-11-24 13:02:14

Local clock offset: 2.703 ms

Remote clock offset: 7.206 ms

# Below is generated by plot.py at 2019-11-24 14:52:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 705.99 Mbit/s

95th percentile per-packet one-way delay: 24.592 ms

Loss rate: 0.07%

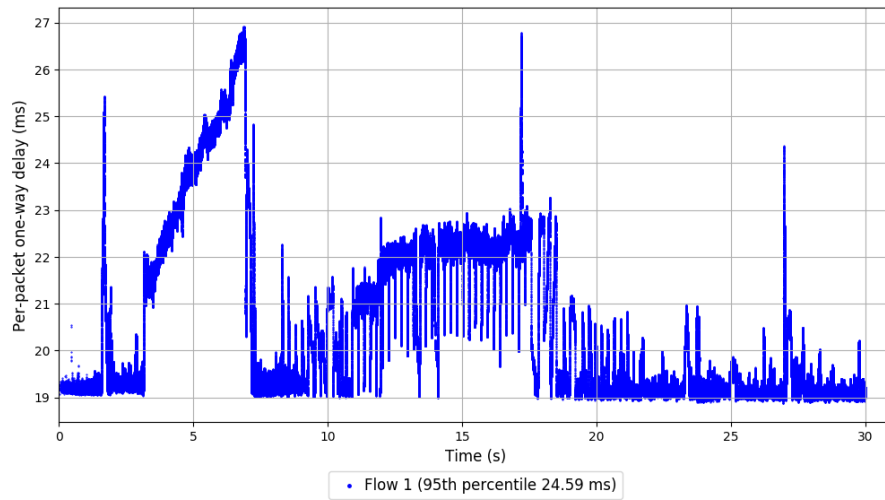
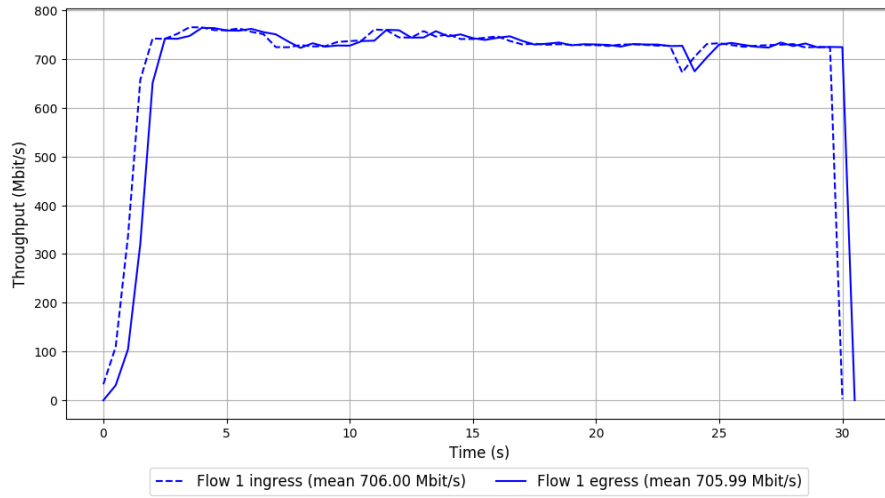
-- Flow 1:

Average throughput: 705.99 Mbit/s

95th percentile per-packet one-way delay: 24.592 ms

Loss rate: 0.07%

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



Run 4: Statistics of TCP Cubic

Start at: 2019-11-24 13:35:31

End at: 2019-11-24 13:36:01

Local clock offset: 3.674 ms

Remote clock offset: 5.198 ms

# Below is generated by plot.py at 2019-11-24 14:52:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 651.42 Mbit/s

95th percentile per-packet one-way delay: 20.950 ms

Loss rate: 0.07%

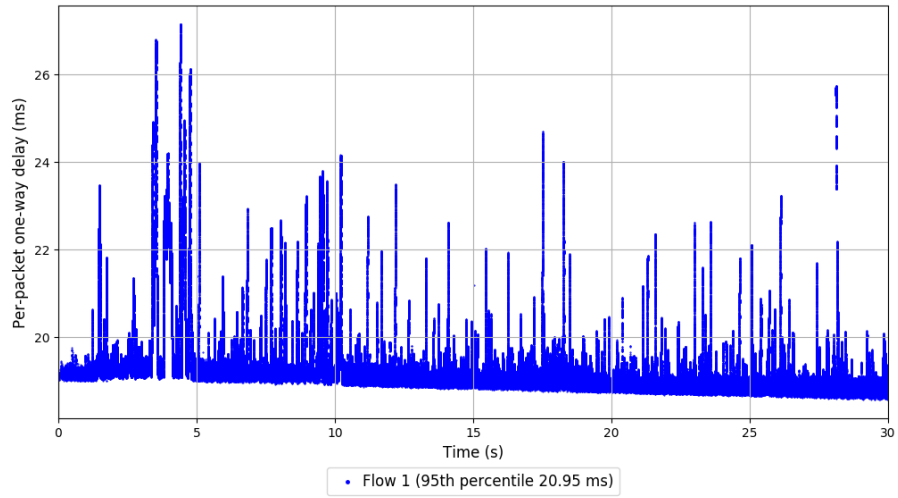
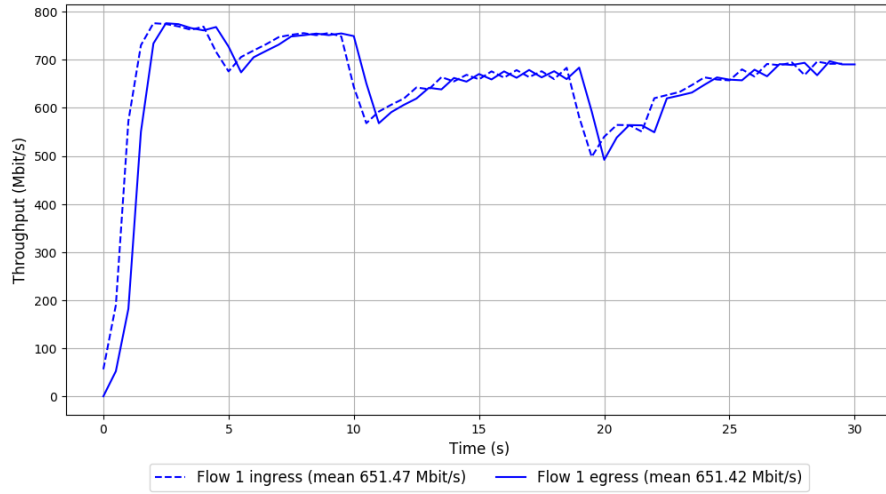
-- Flow 1:

Average throughput: 651.42 Mbit/s

95th percentile per-packet one-way delay: 20.950 ms

Loss rate: 0.07%

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





Run 5: Statistics of TCP Cubic

Start at: 2019-11-24 14:09:33  
End at: 2019-11-24 14:10:03  
Local clock offset: 3.636 ms  
Remote clock offset: -4.346 ms

# Below is generated by plot.py at 2019-11-24 14:52:35

# Datalink statistics

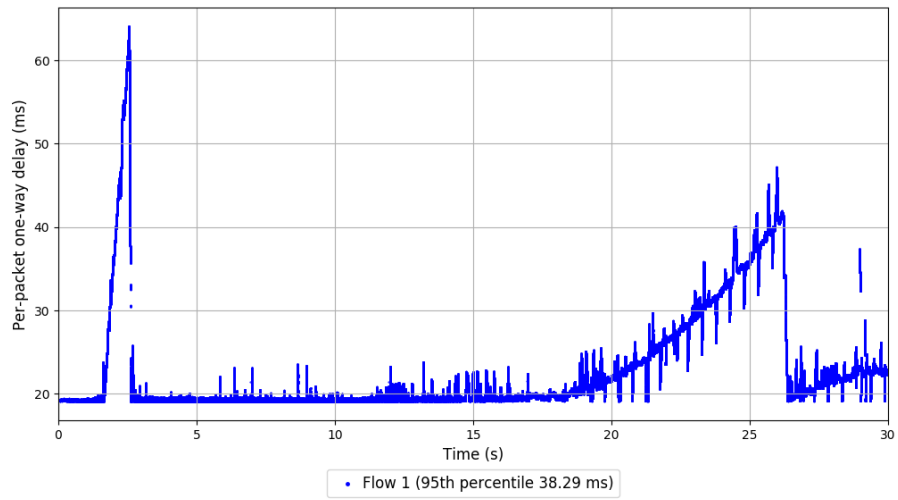
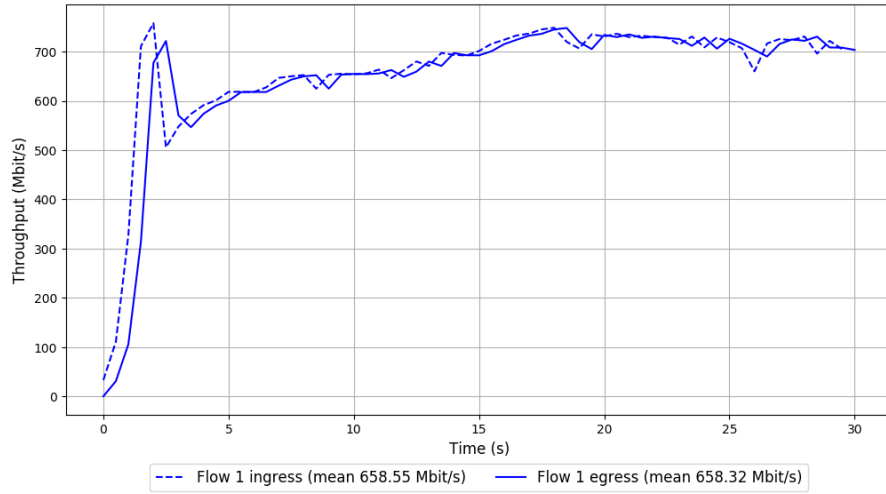
-- Total of 1 flow:

Average throughput: 658.32 Mbit/s  
95th percentile per-packet one-way delay: 38.291 ms  
Loss rate: 0.10%

-- Flow 1:

Average throughput: 658.32 Mbit/s  
95th percentile per-packet one-way delay: 38.291 ms  
Loss rate: 0.10%

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

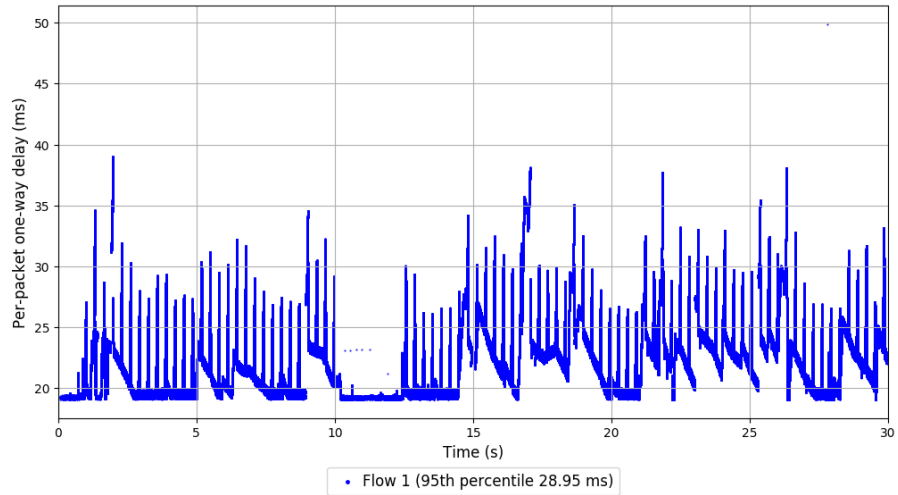
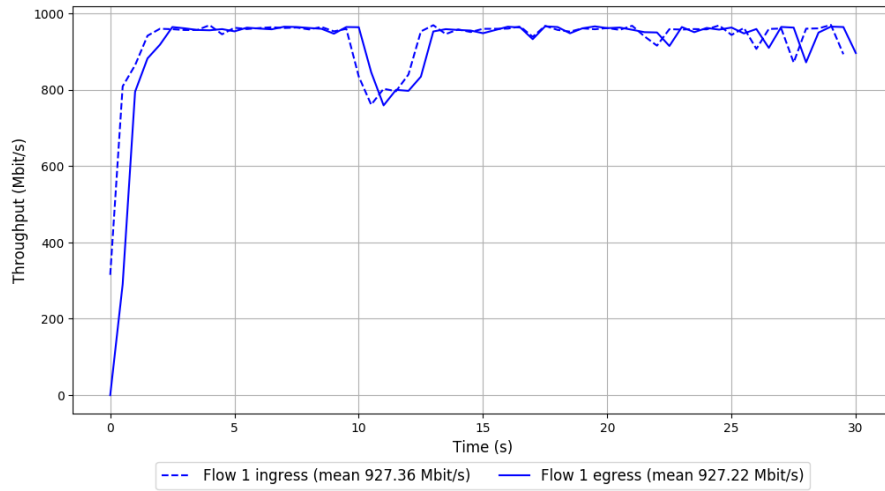


Run 1: Statistics of FillP

Start at: 2019-11-24 11:45:42  
End at: 2019-11-24 11:46:12  
Local clock offset: 3.396 ms  
Remote clock offset: -3.703 ms

# Below is generated by plot.py at 2019-11-24 14:57:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 927.22 Mbit/s  
95th percentile per-packet one-way delay: 28.952 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 927.22 Mbit/s  
95th percentile per-packet one-way delay: 28.952 ms  
Loss rate: 0.08%

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



Run 2: Statistics of FillP

Start at: 2019-11-24 12:19:29

End at: 2019-11-24 12:19:59

Local clock offset: 3.453 ms

Remote clock offset: -3.168 ms

# Below is generated by plot.py at 2019-11-24 15:02:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 926.87 Mbit/s

95th percentile per-packet one-way delay: 26.942 ms

Loss rate: 0.07%

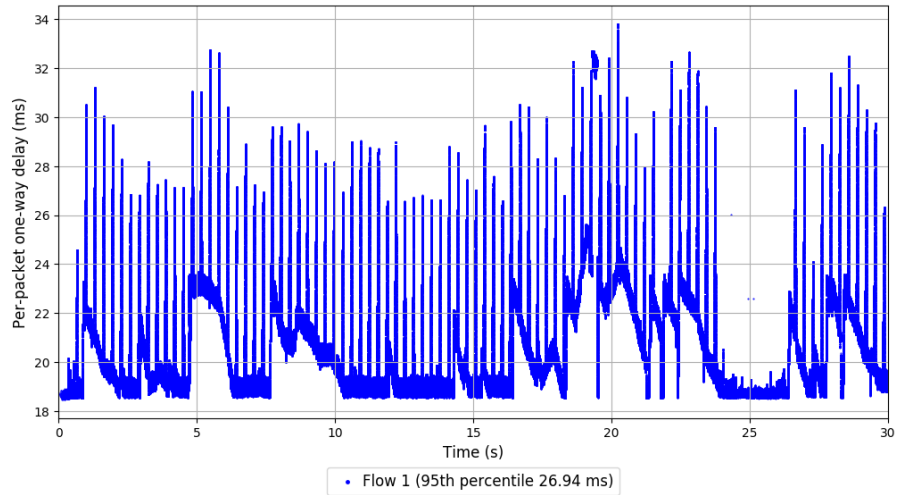
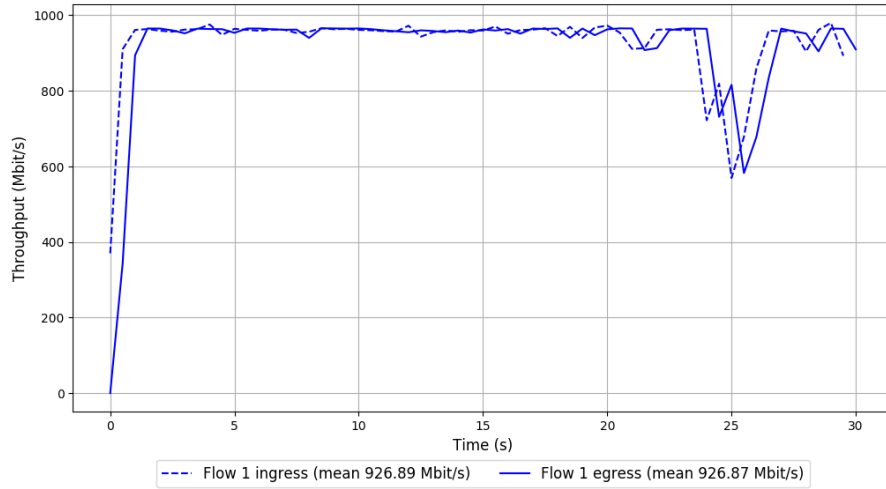
-- Flow 1:

Average throughput: 926.87 Mbit/s

95th percentile per-packet one-way delay: 26.942 ms

Loss rate: 0.07%

## Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-11-24 12:53:20

End at: 2019-11-24 12:53:50

Local clock offset: 2.804 ms

Remote clock offset: 5.964 ms

# Below is generated by plot.py at 2019-11-24 15:03:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 922.12 Mbit/s

95th percentile per-packet one-way delay: 9.125 ms

Loss rate: 0.02%

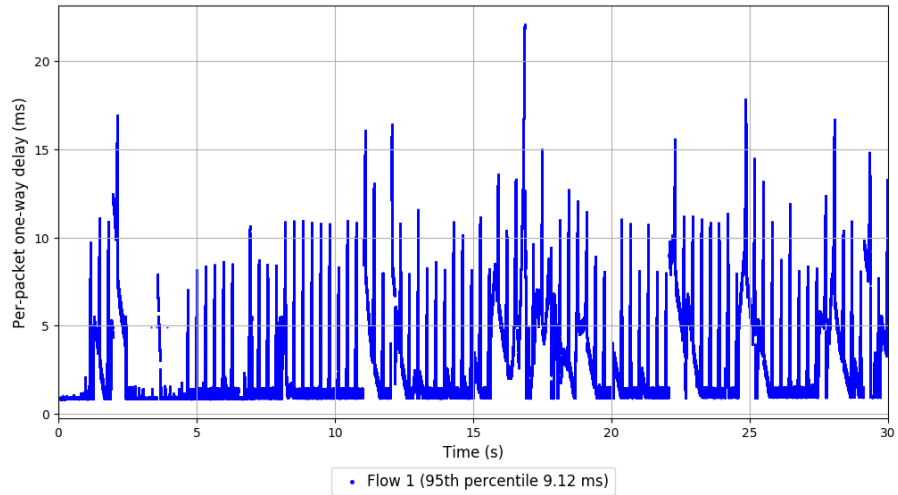
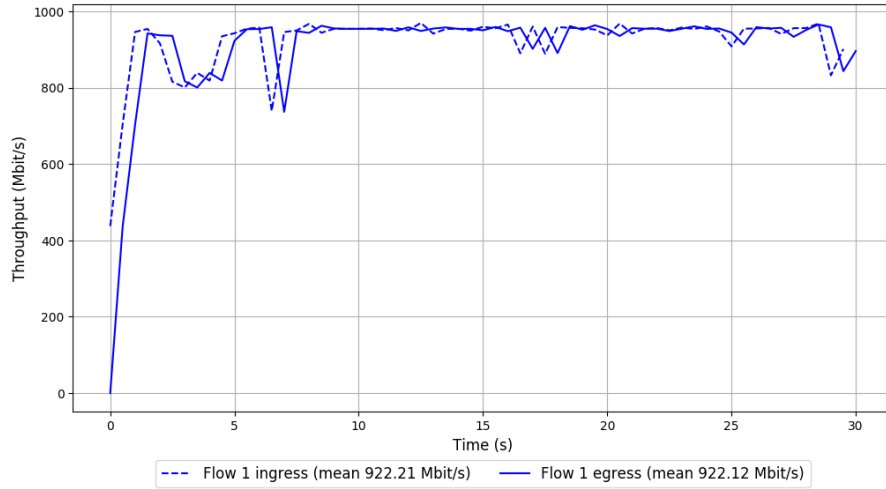
-- Flow 1:

Average throughput: 922.12 Mbit/s

95th percentile per-packet one-way delay: 9.125 ms

Loss rate: 0.02%

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





Run 4: Statistics of FillP

Start at: 2019-11-24 13:27:19

End at: 2019-11-24 13:27:49

Local clock offset: 3.534 ms

Remote clock offset: 4.788 ms

# Below is generated by plot.py at 2019-11-24 15:04:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 925.52 Mbit/s

95th percentile per-packet one-way delay: 9.141 ms

Loss rate: 0.01%

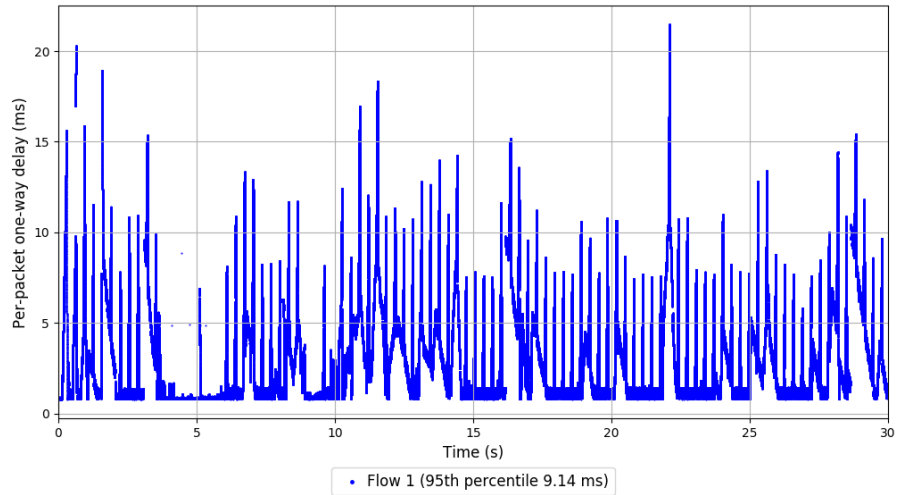
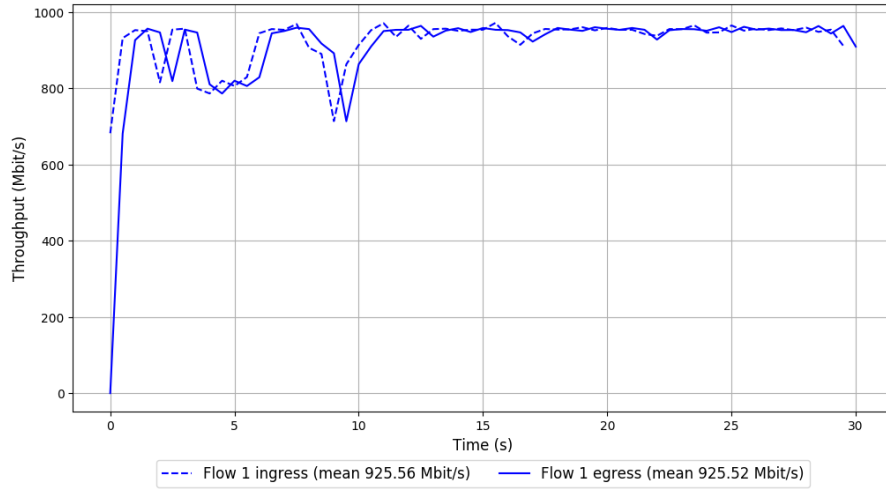
-- Flow 1:

Average throughput: 925.52 Mbit/s

95th percentile per-packet one-way delay: 9.141 ms

Loss rate: 0.01%

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



Run 5: Statistics of FillP

Start at: 2019-11-24 14:01:15

End at: 2019-11-24 14:01:45

Local clock offset: 3.63 ms

Remote clock offset: -3.638 ms

# Below is generated by plot.py at 2019-11-24 15:04:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 932.42 Mbit/s

95th percentile per-packet one-way delay: 9.984 ms

Loss rate: 0.02%

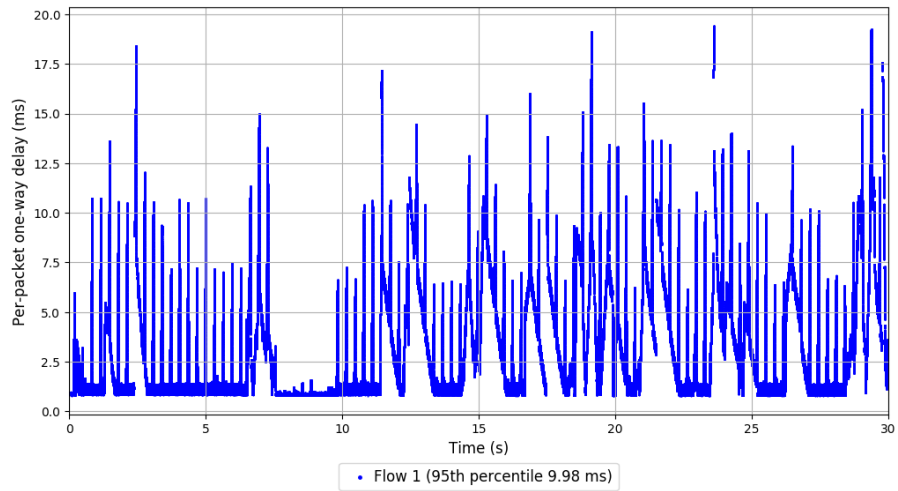
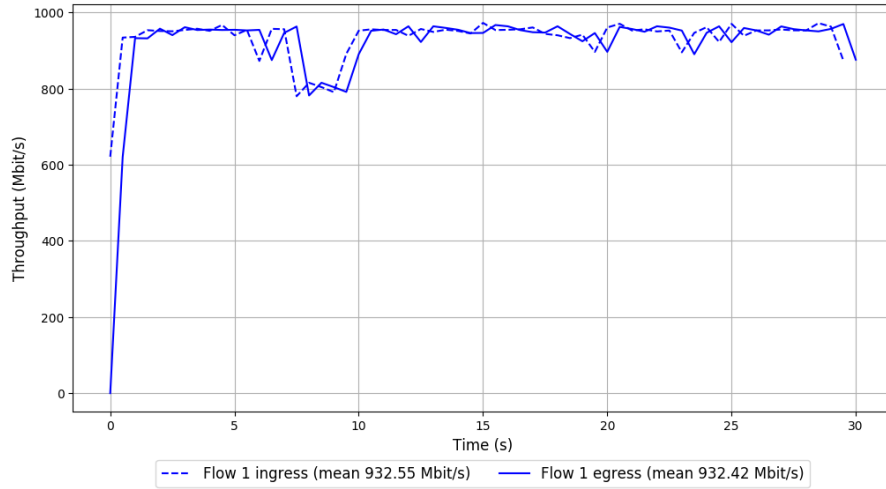
-- Flow 1:

Average throughput: 932.42 Mbit/s

95th percentile per-packet one-way delay: 9.984 ms

Loss rate: 0.02%

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



Run 1: Statistics of FillP-Sheep

Start at: 2019-11-24 12:02:56

End at: 2019-11-24 12:03:26

Local clock offset: 4.012 ms

Remote clock offset: -3.34 ms

# Below is generated by plot.py at 2019-11-24 15:04:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 920.80 Mbit/s

95th percentile per-packet one-way delay: 5.240 ms

Loss rate: 0.09%

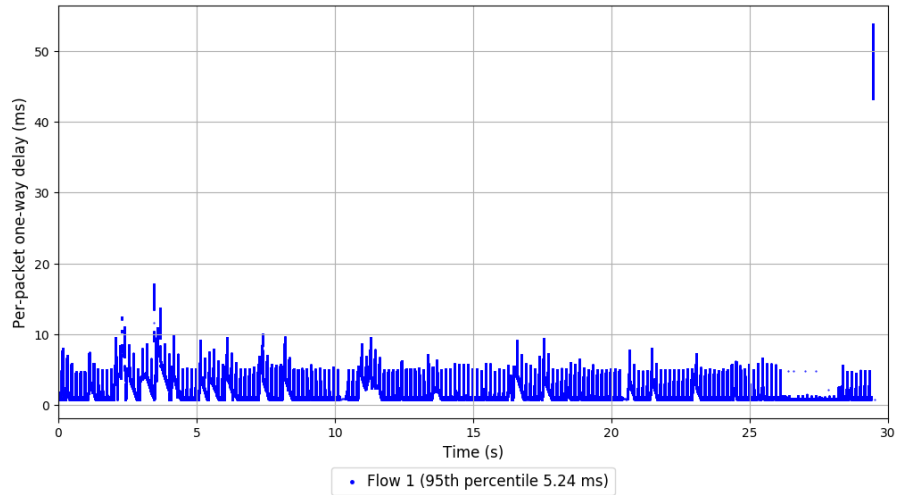
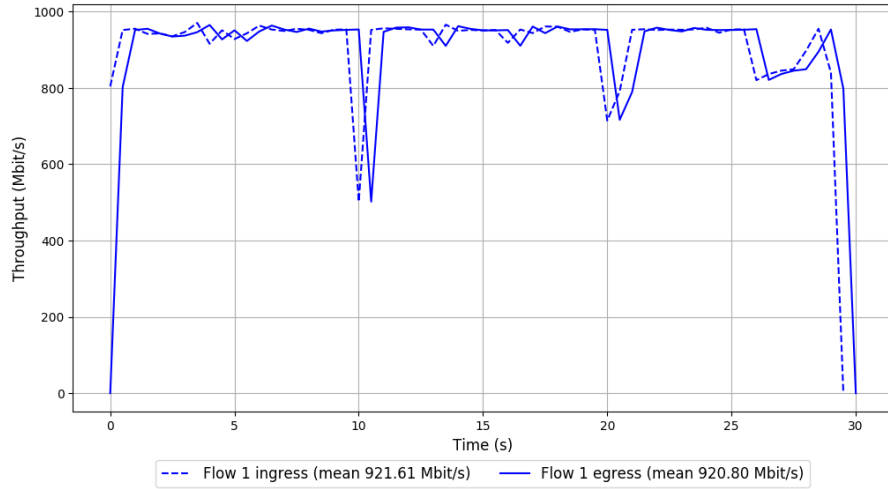
-- Flow 1:

Average throughput: 920.80 Mbit/s

95th percentile per-packet one-way delay: 5.240 ms

Loss rate: 0.09%

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



Run 2: Statistics of FillP-Sheep

Start at: 2019-11-24 12:36:42

End at: 2019-11-24 12:37:12

Local clock offset: 3.202 ms

Remote clock offset: 1.954 ms

# Below is generated by plot.py at 2019-11-24 15:04:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 757.20 Mbit/s

95th percentile per-packet one-way delay: 16.227 ms

Loss rate: 0.01%

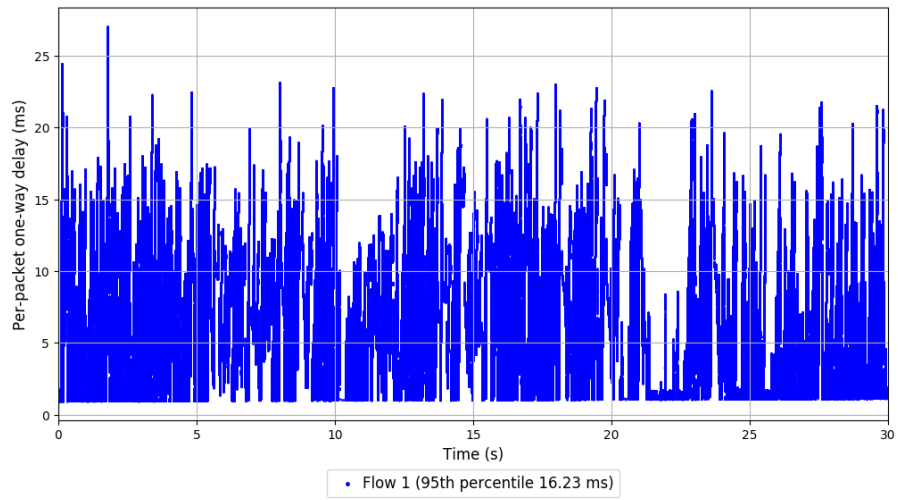
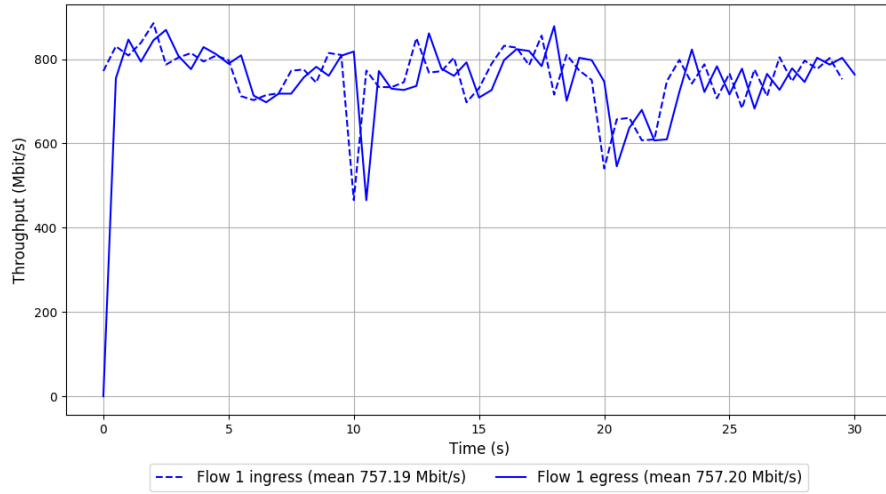
-- Flow 1:

Average throughput: 757.20 Mbit/s

95th percentile per-packet one-way delay: 16.227 ms

Loss rate: 0.01%

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





Run 3: Statistics of FillP-Sheep

Start at: 2019-11-24 13:10:44

End at: 2019-11-24 13:11:14

Local clock offset: 2.785 ms

Remote clock offset: 4.959 ms

# Below is generated by plot.py at 2019-11-24 15:04:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 910.76 Mbit/s

95th percentile per-packet one-way delay: 22.707 ms

Loss rate: 0.07%

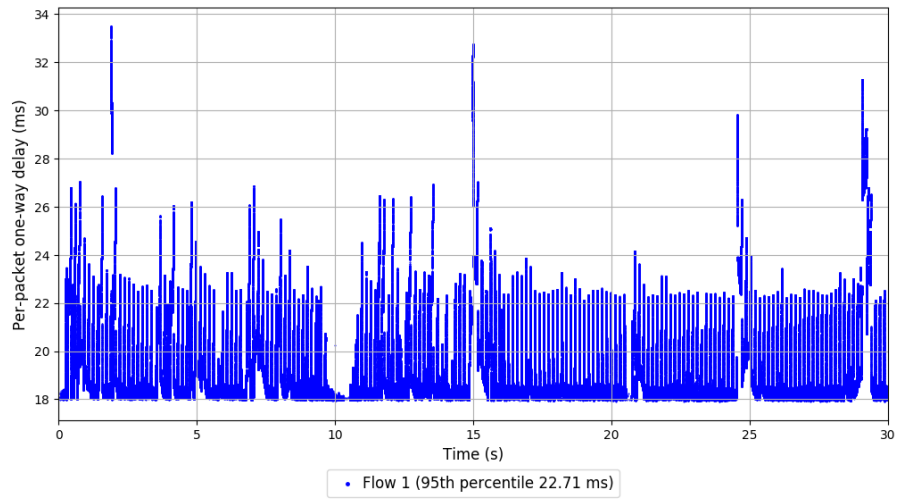
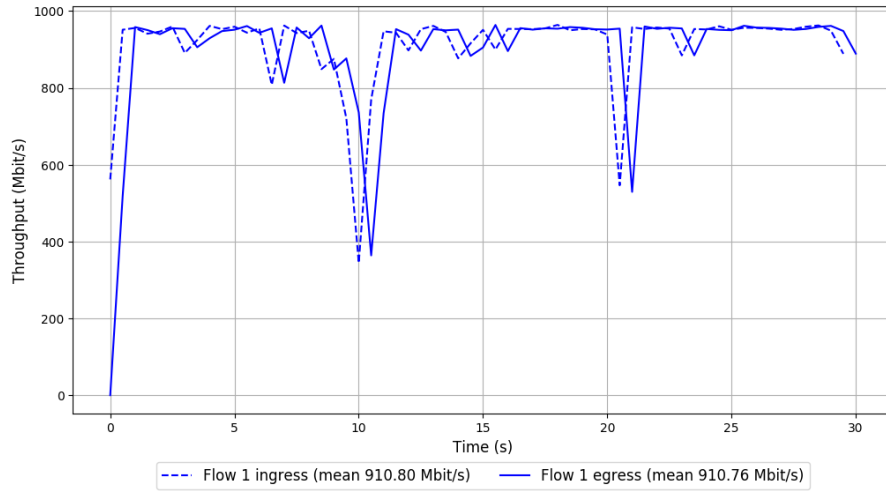
-- Flow 1:

Average throughput: 910.76 Mbit/s

95th percentile per-packet one-way delay: 22.707 ms

Loss rate: 0.07%

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

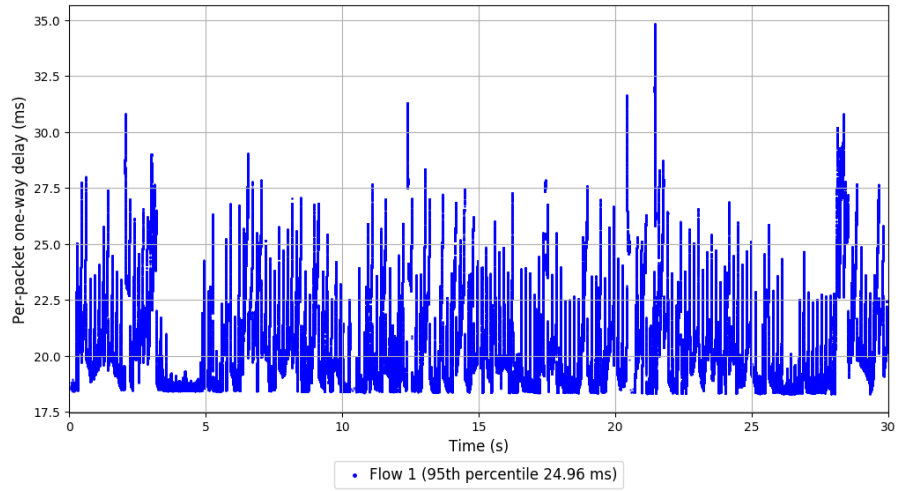
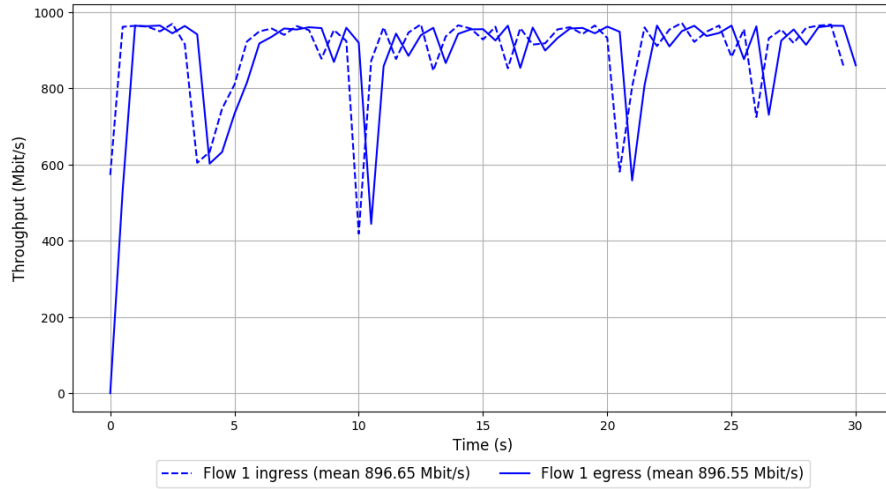


Run 4: Statistics of FillP-Sheep

Start at: 2019-11-24 13:44:19  
End at: 2019-11-24 13:44:49  
Local clock offset: 3.644 ms  
Remote clock offset: -0.321 ms

```
# Below is generated by plot.py at 2019-11-24 15:11:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 896.55 Mbit/s
95th percentile per-packet one-way delay: 24.959 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 896.55 Mbit/s
95th percentile per-packet one-way delay: 24.959 ms
Loss rate: 0.08%
```

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



Run 5: Statistics of FillP-Sheep

Start at: 2019-11-24 14:18:33

End at: 2019-11-24 14:19:03

Local clock offset: 3.552 ms

Remote clock offset: -3.735 ms

# Below is generated by plot.py at 2019-11-24 15:14:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 886.98 Mbit/s

95th percentile per-packet one-way delay: 23.356 ms

Loss rate: 0.07%

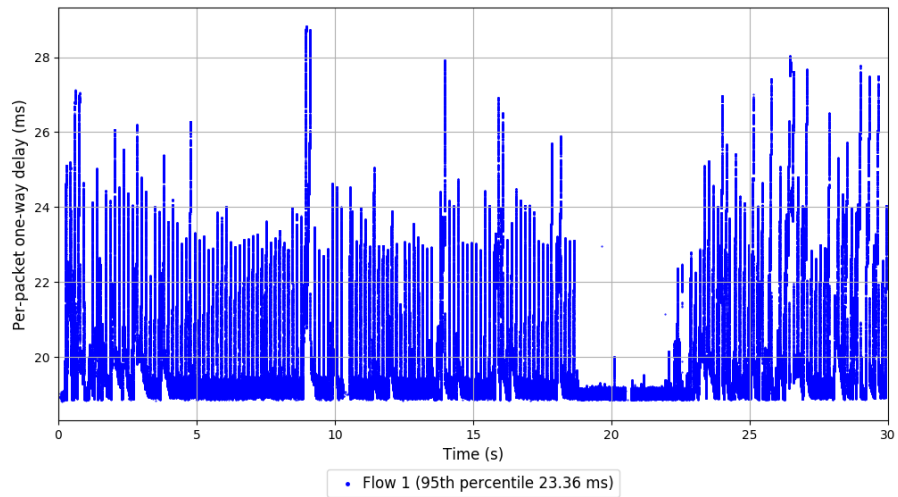
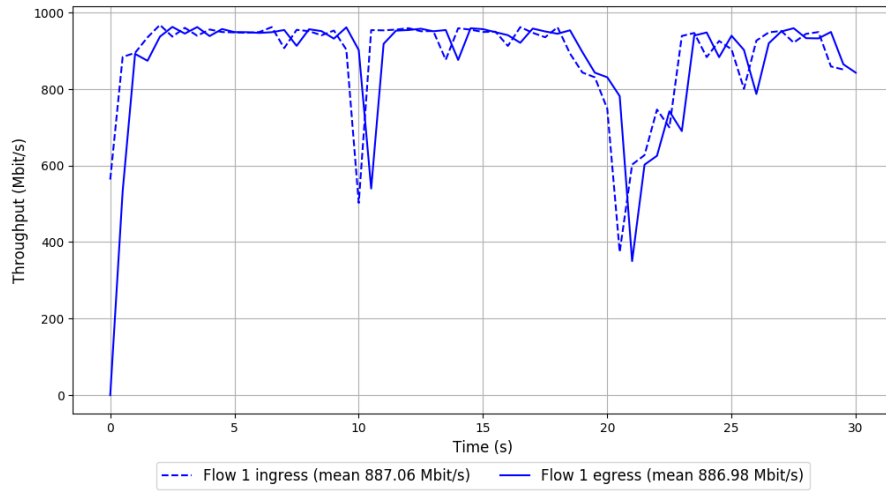
-- Flow 1:

Average throughput: 886.98 Mbit/s

95th percentile per-packet one-way delay: 23.356 ms

Loss rate: 0.07%

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



Run 1: Statistics of Indigo

Start at: 2019-11-24 12:11:08

End at: 2019-11-24 12:11:38

Local clock offset: 3.963 ms

Remote clock offset: -3.183 ms

# Below is generated by plot.py at 2019-11-24 15:14:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 178.15 Mbit/s

95th percentile per-packet one-way delay: 0.967 ms

Loss rate: 0.00%

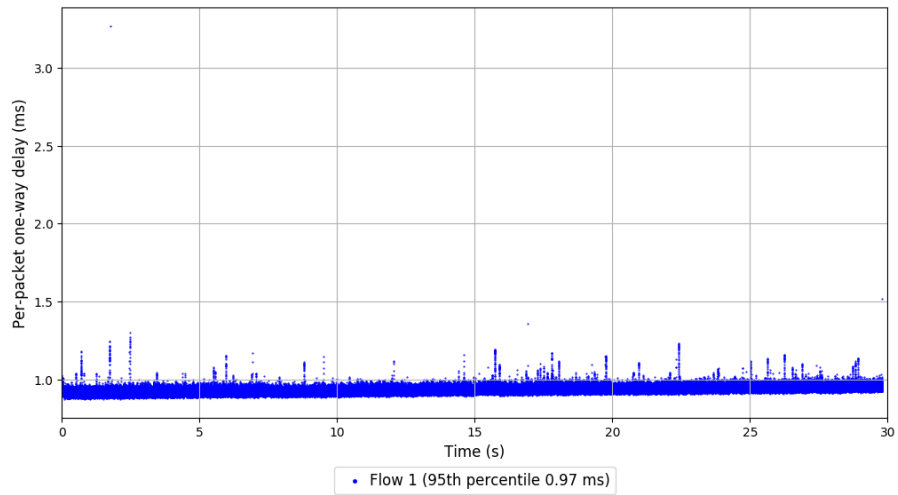
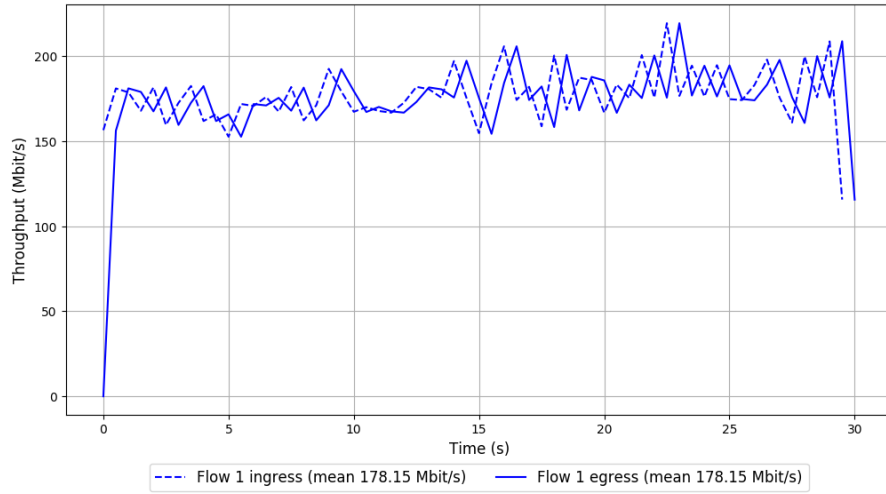
-- Flow 1:

Average throughput: 178.15 Mbit/s

95th percentile per-packet one-way delay: 0.967 ms

Loss rate: 0.00%

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





Run 2: Statistics of Indigo

Start at: 2019-11-24 12:44:44

End at: 2019-11-24 12:45:14

Local clock offset: 2.97 ms

Remote clock offset: 4.238 ms

# Below is generated by plot.py at 2019-11-24 15:14:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 197.55 Mbit/s

95th percentile per-packet one-way delay: 18.950 ms

Loss rate: 0.07%

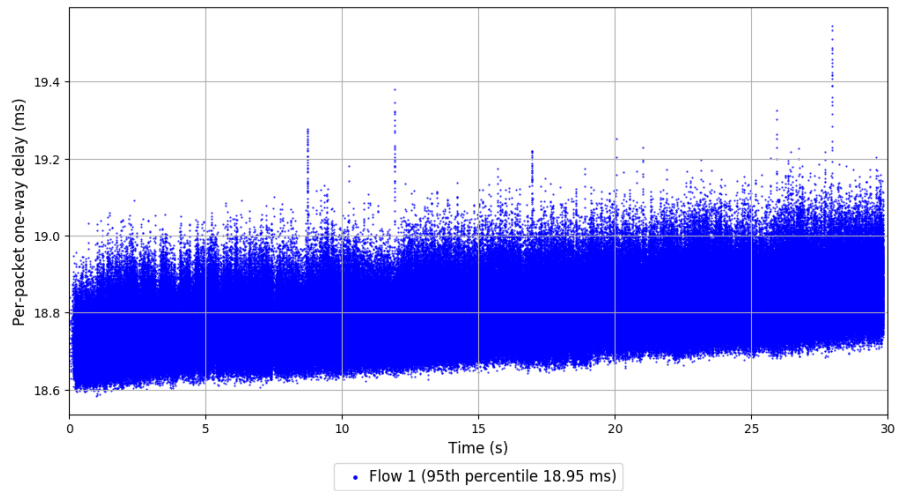
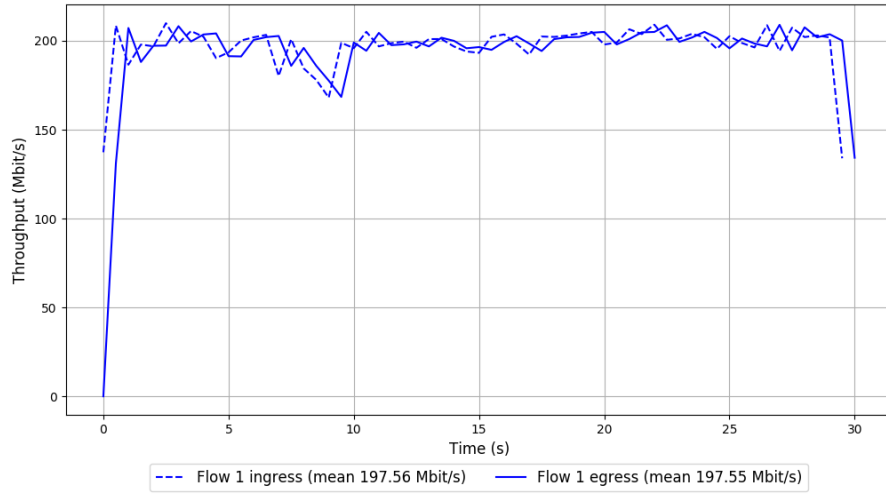
-- Flow 1:

Average throughput: 197.55 Mbit/s

95th percentile per-packet one-way delay: 18.950 ms

Loss rate: 0.07%

## Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-11-24 13:18:53

End at: 2019-11-24 13:19:23

Local clock offset: 3.313 ms

Remote clock offset: 4.462 ms

# Below is generated by plot.py at 2019-11-24 15:14:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 184.22 Mbit/s

95th percentile per-packet one-way delay: 0.977 ms

Loss rate: 0.01%

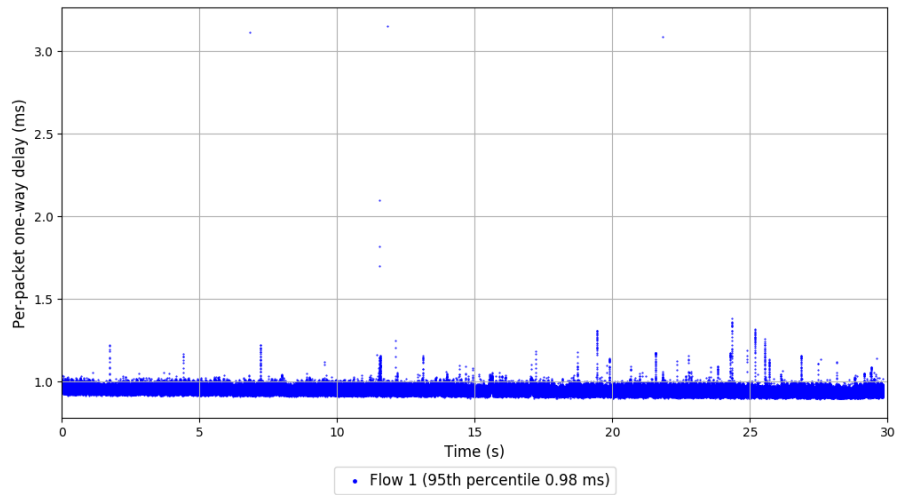
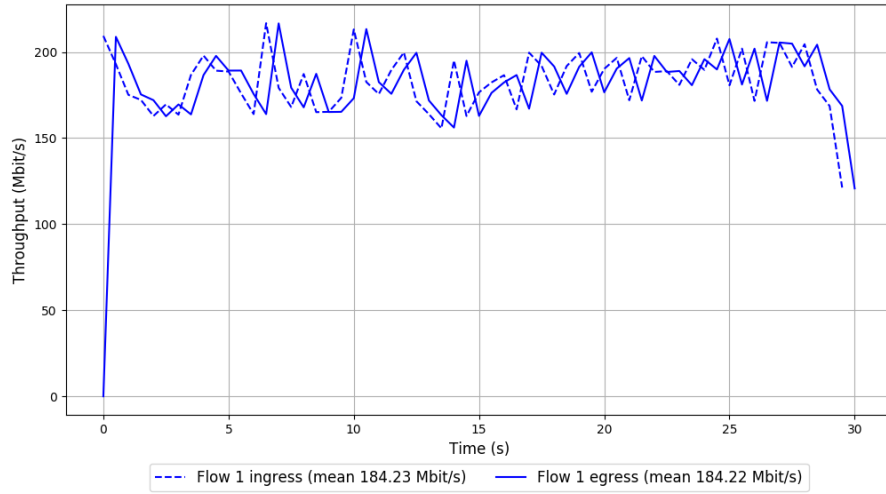
-- Flow 1:

Average throughput: 184.22 Mbit/s

95th percentile per-packet one-way delay: 0.977 ms

Loss rate: 0.01%

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

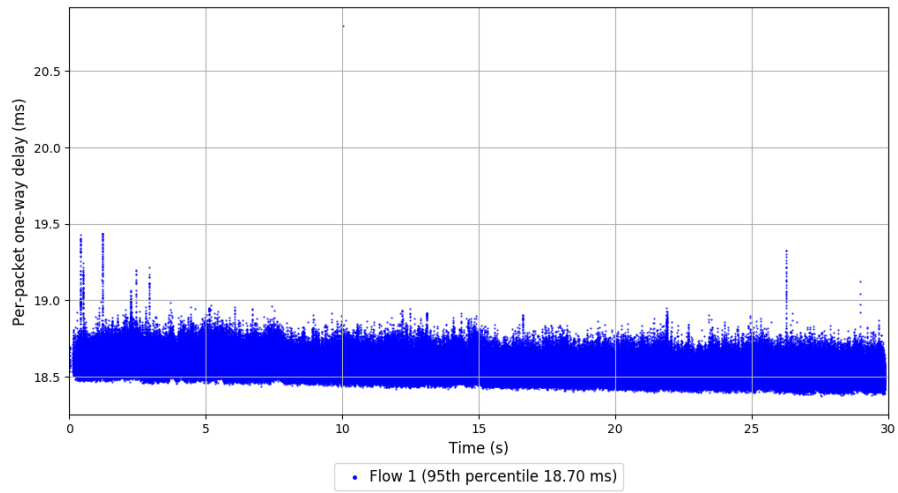
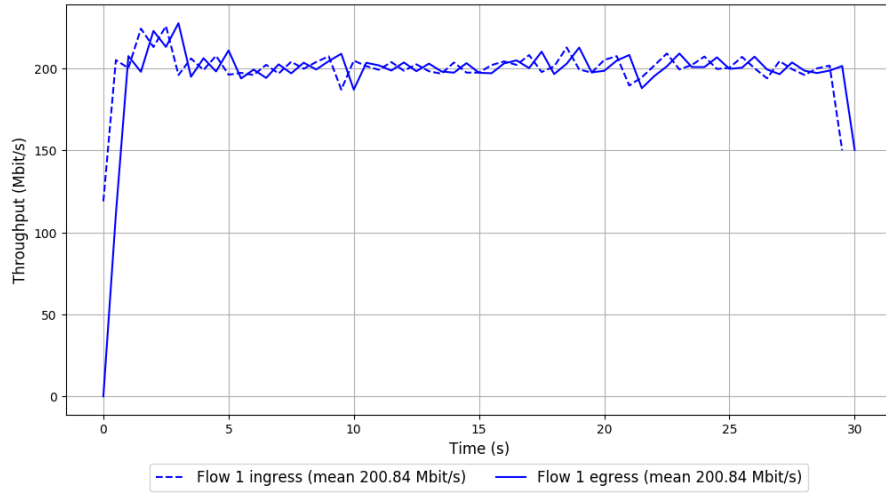


Run 4: Statistics of Indigo

Start at: 2019-11-24 13:52:39  
End at: 2019-11-24 13:53:09  
Local clock offset: 3.603 ms  
Remote clock offset: -2.547 ms

```
# Below is generated by plot.py at 2019-11-24 15:14:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 200.84 Mbit/s
95th percentile per-packet one-way delay: 18.696 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 200.84 Mbit/s
95th percentile per-packet one-way delay: 18.696 ms
Loss rate: 0.07%
```

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



Run 5: Statistics of Indigo

Start at: 2019-11-24 14:26:58

End at: 2019-11-24 14:27:28

Local clock offset: 3.56 ms

Remote clock offset: -3.586 ms

# Below is generated by plot.py at 2019-11-24 15:14:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 177.48 Mbit/s

95th percentile per-packet one-way delay: 0.973 ms

Loss rate: 0.01%

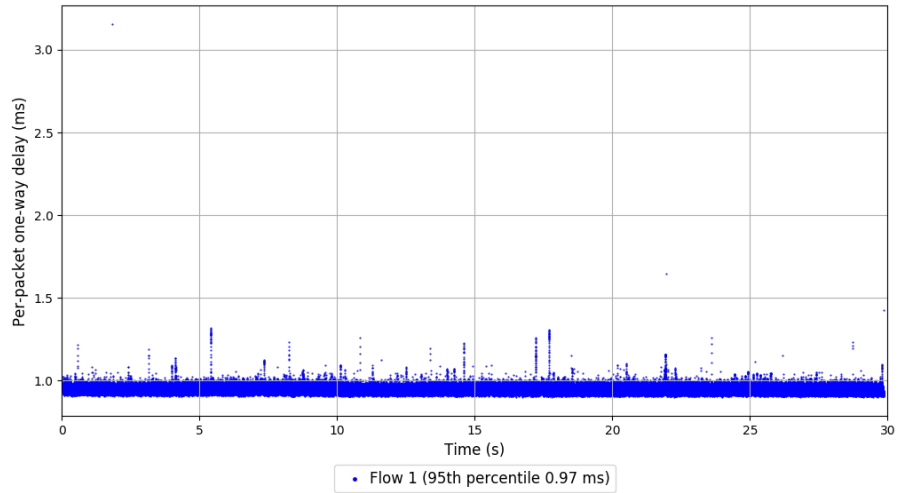
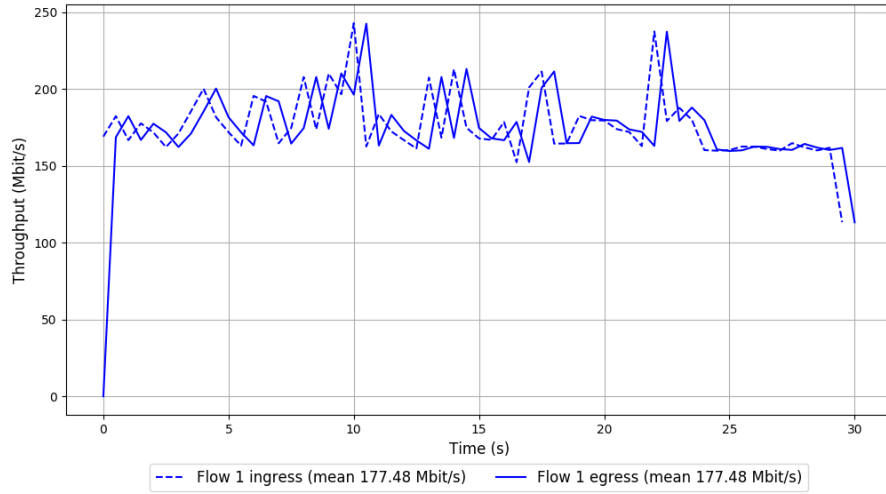
-- Flow 1:

Average throughput: 177.48 Mbit/s

95th percentile per-packet one-way delay: 0.973 ms

Loss rate: 0.01%

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





Run 1: Statistics of Indigo-MusesC3

Start at: 2019-11-24 11:40:29  
End at: 2019-11-24 11:40:59  
Local clock offset: 2.928 ms  
Remote clock offset: -3.493 ms

# Below is generated by plot.py at 2019-11-24 15:14:19

# Datalink statistics

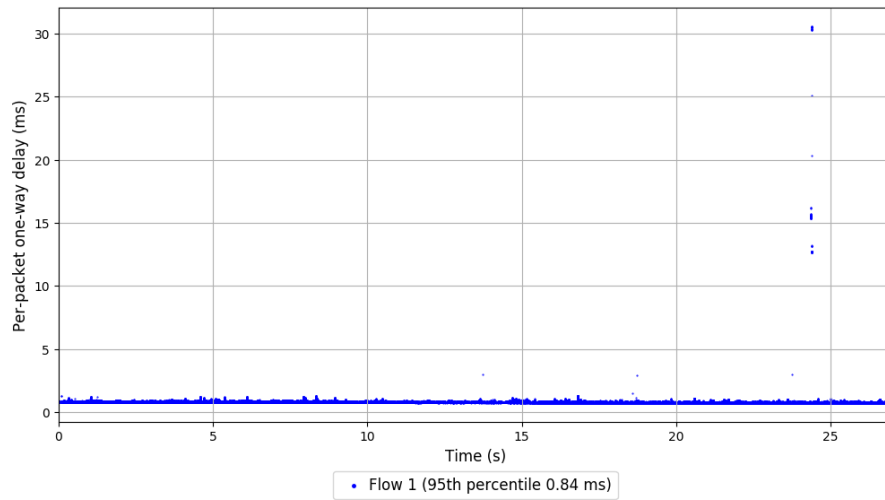
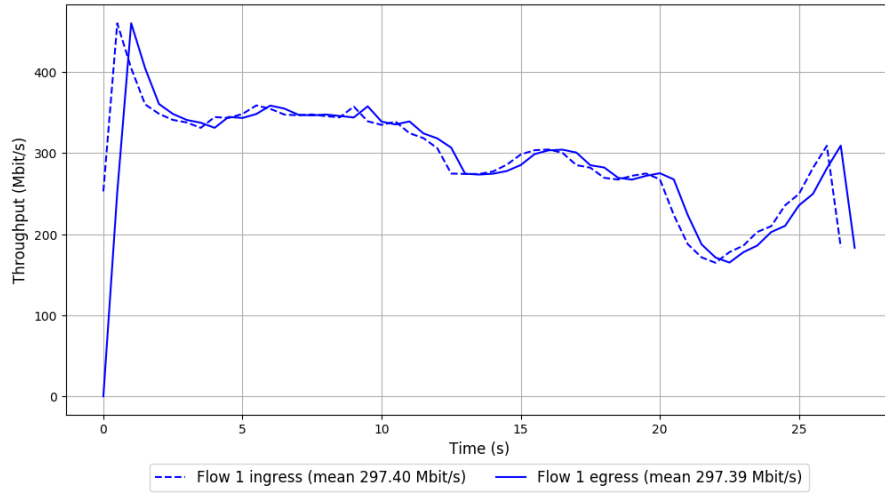
-- Total of 1 flow:

Average throughput: 297.39 Mbit/s  
95th percentile per-packet one-way delay: 0.838 ms  
Loss rate: 0.01%

-- Flow 1:

Average throughput: 297.39 Mbit/s  
95th percentile per-packet one-way delay: 0.838 ms  
Loss rate: 0.01%

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



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-11-24 12:14:02

End at: 2019-11-24 12:14:32

Local clock offset: 3.749 ms

Remote clock offset: -3.17 ms

# Below is generated by plot.py at 2019-11-24 15:14:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 369.03 Mbit/s

95th percentile per-packet one-way delay: 19.465 ms

Loss rate: 0.07%

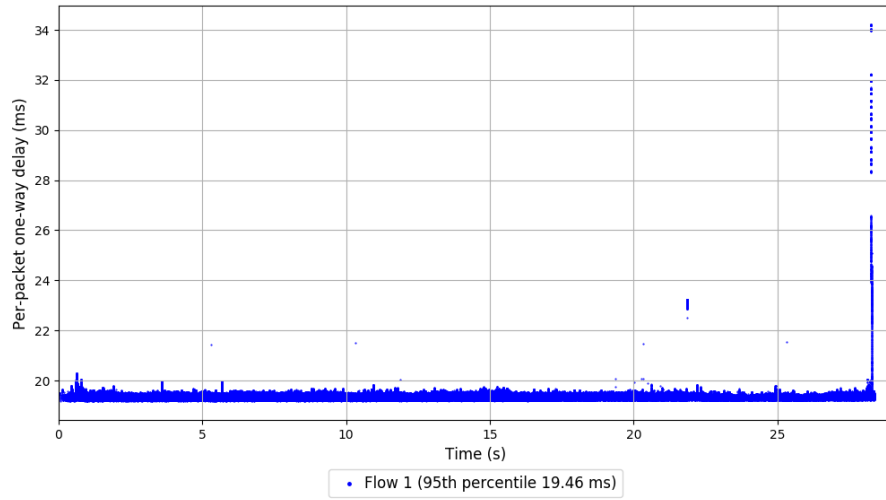
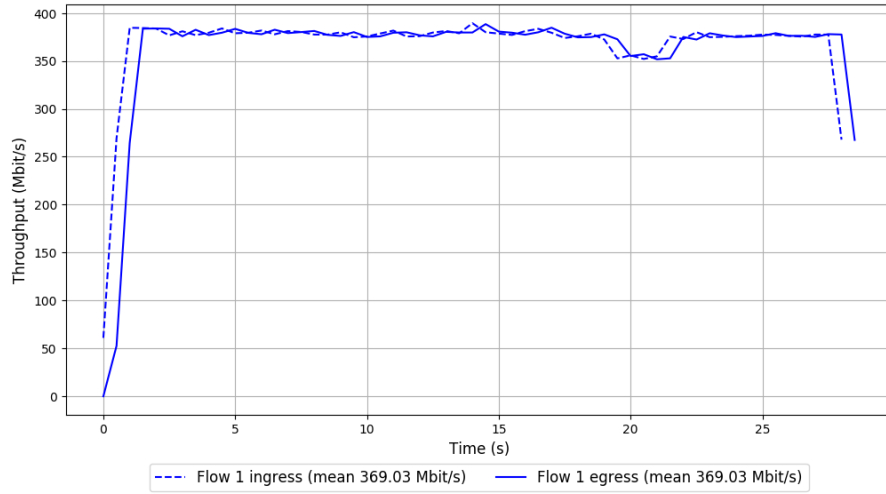
-- Flow 1:

Average throughput: 369.03 Mbit/s

95th percentile per-packet one-way delay: 19.465 ms

Loss rate: 0.07%

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



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-11-24 12:47:39

End at: 2019-11-24 12:48:09

Local clock offset: 2.92 ms

Remote clock offset: 4.871 ms

# Below is generated by plot.py at 2019-11-24 15:14:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 426.26 Mbit/s

95th percentile per-packet one-way delay: 20.078 ms

Loss rate: 0.06%

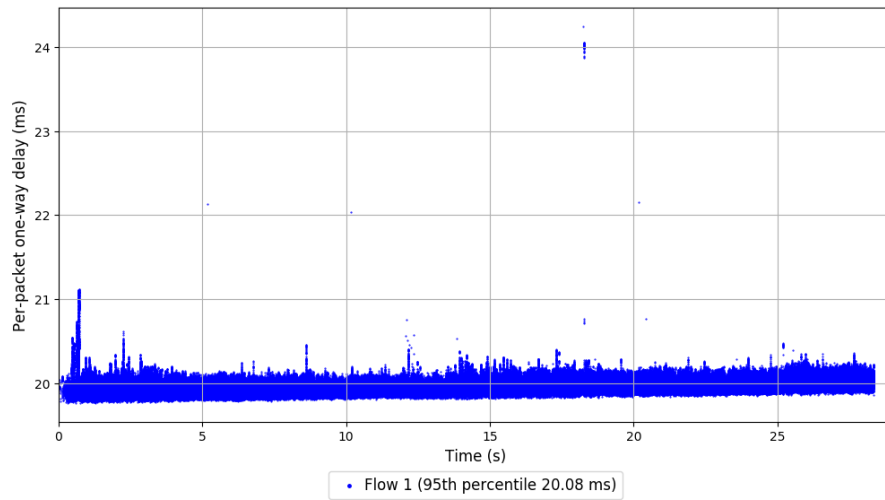
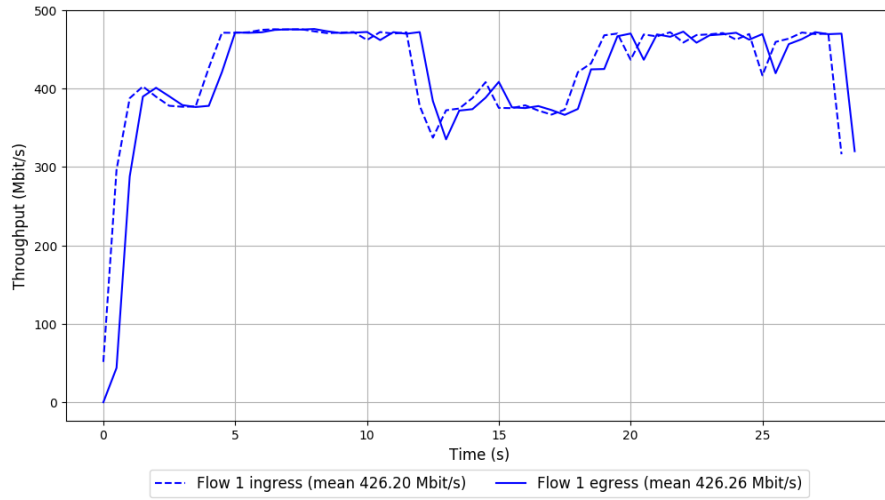
-- Flow 1:

Average throughput: 426.26 Mbit/s

95th percentile per-packet one-way delay: 20.078 ms

Loss rate: 0.06%

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



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-11-24 13:21:49

End at: 2019-11-24 13:22:19

Local clock offset: 3.415 ms

Remote clock offset: 4.496 ms

# Below is generated by plot.py at 2019-11-24 15:14:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 436.15 Mbit/s

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

Loss rate: 0.08%

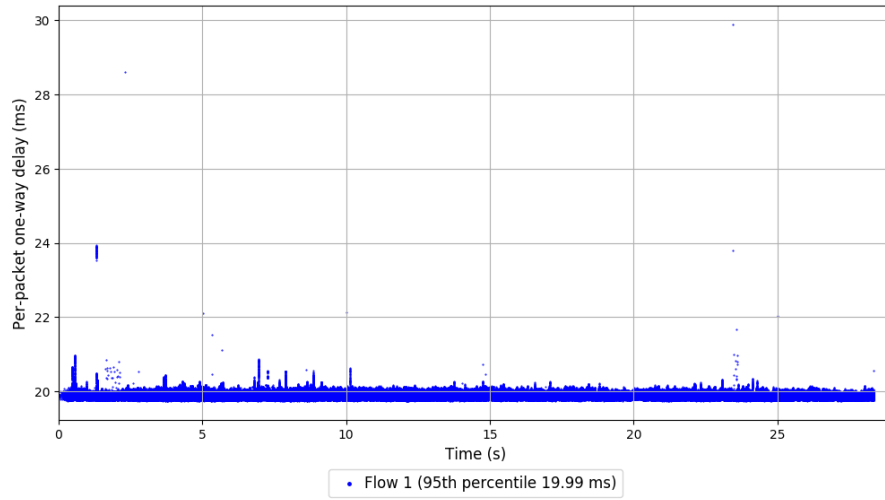
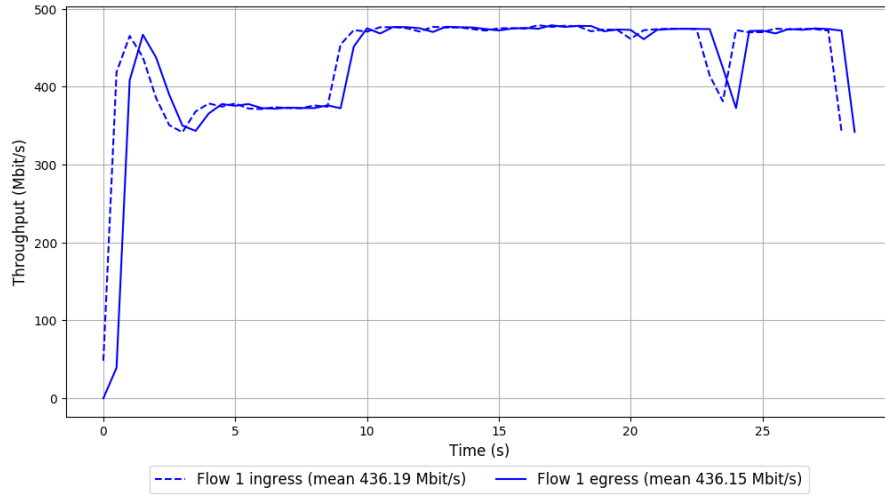
-- Flow 1:

Average throughput: 436.15 Mbit/s

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

Loss rate: 0.08%

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



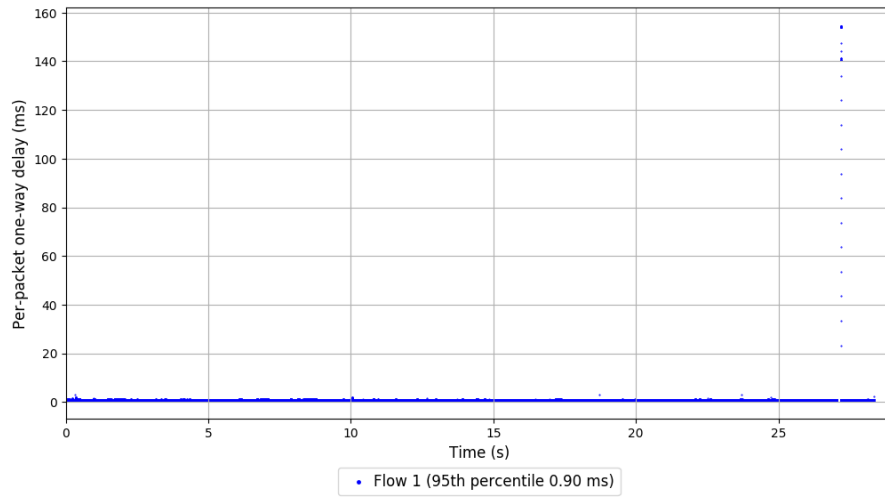
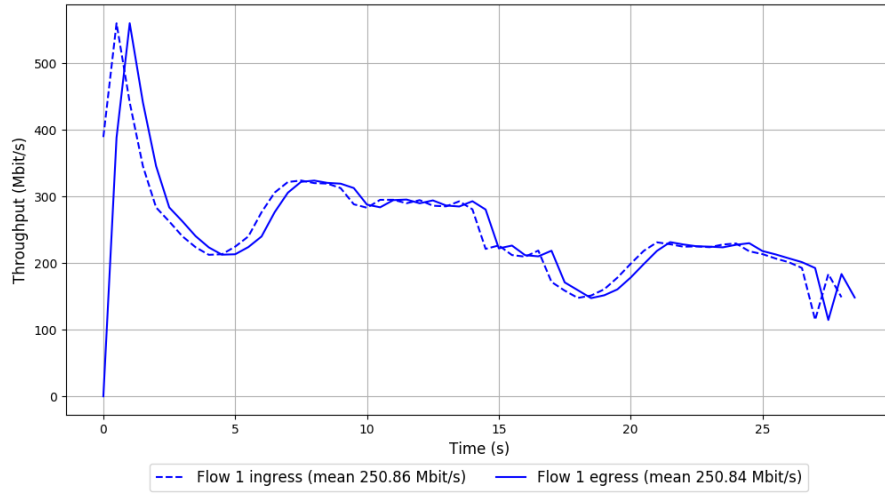


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-11-24 13:55:34  
End at: 2019-11-24 13:56:04  
Local clock offset: 3.589 ms  
Remote clock offset: -3.033 ms

# Below is generated by plot.py at 2019-11-24 15:14:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 250.84 Mbit/s  
95th percentile per-packet one-way delay: 0.899 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 250.84 Mbit/s  
95th percentile per-packet one-way delay: 0.899 ms  
Loss rate: 0.01%

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

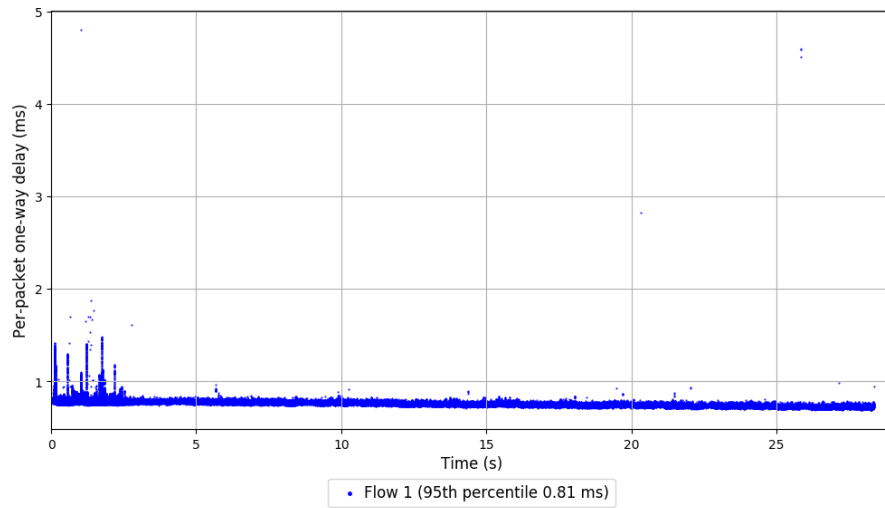
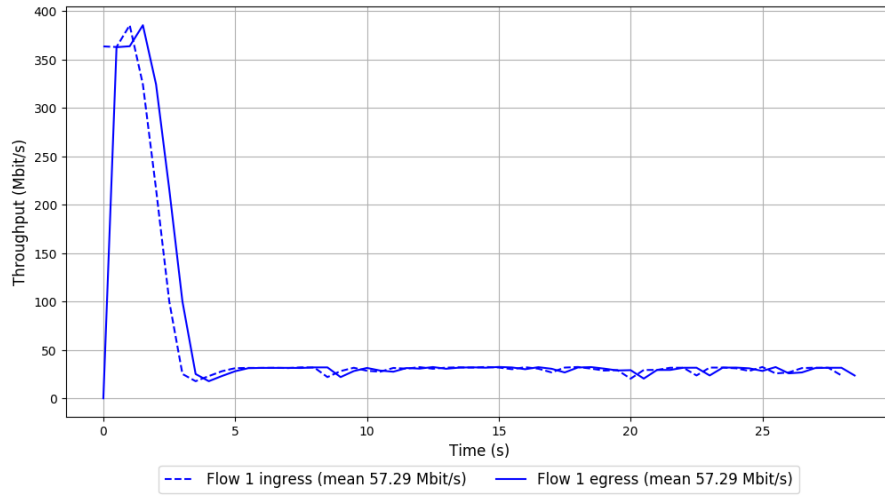


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-11-24 11:41:51  
End at: 2019-11-24 11:42:21  
Local clock offset: 3.076 ms  
Remote clock offset: -3.527 ms

# Below is generated by plot.py at 2019-11-24 15:14:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 57.29 Mbit/s  
95th percentile per-packet one-way delay: 0.811 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 57.29 Mbit/s  
95th percentile per-packet one-way delay: 0.811 ms  
Loss rate: 0.01%

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



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-11-24 12:15:26

End at: 2019-11-24 12:15:56

Local clock offset: 3.646 ms

Remote clock offset: -3.156 ms

# Below is generated by plot.py at 2019-11-24 15:14:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 439.86 Mbit/s

95th percentile per-packet one-way delay: 19.936 ms

Loss rate: 0.08%

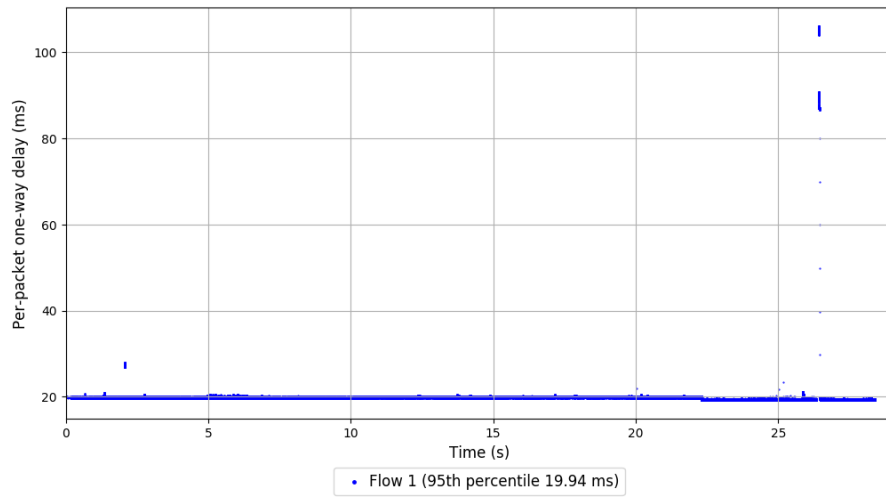
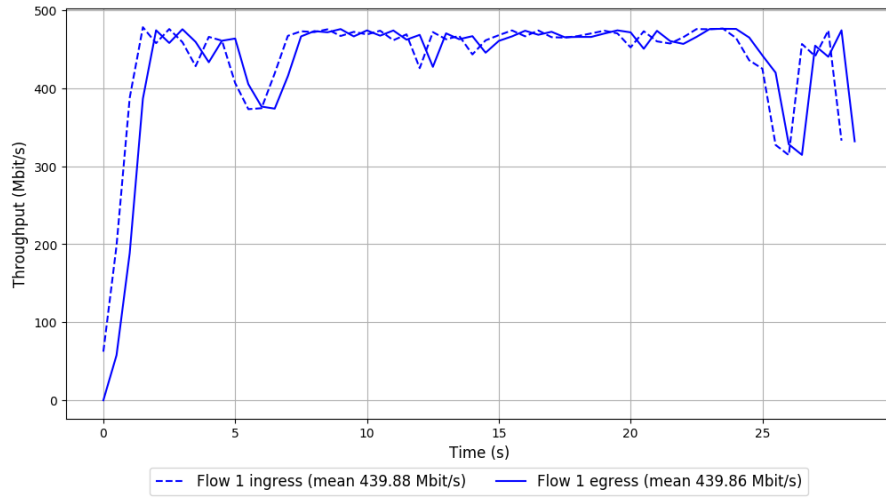
-- Flow 1:

Average throughput: 439.86 Mbit/s

95th percentile per-packet one-way delay: 19.936 ms

Loss rate: 0.08%

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



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-11-24 12:49:05

End at: 2019-11-24 12:49:35

Local clock offset: 2.897 ms

Remote clock offset: 5.11 ms

# Below is generated by plot.py at 2019-11-24 15:14:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 414.42 Mbit/s

95th percentile per-packet one-way delay: 19.203 ms

Loss rate: 0.08%

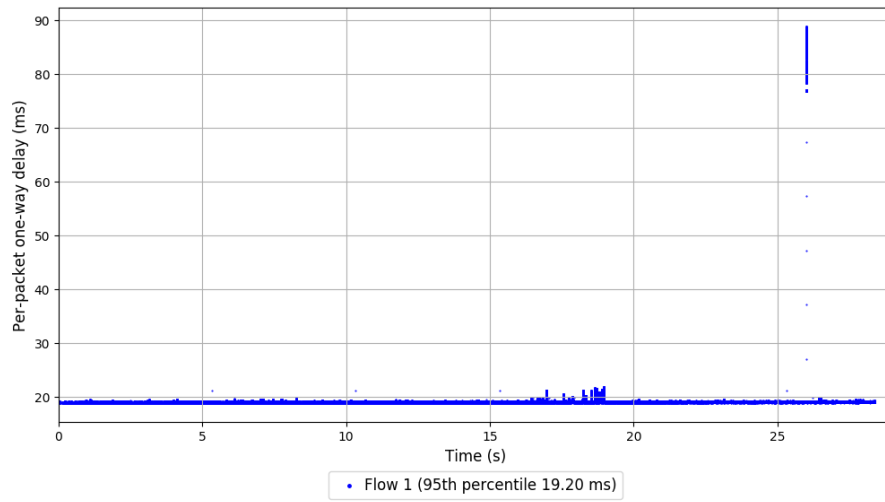
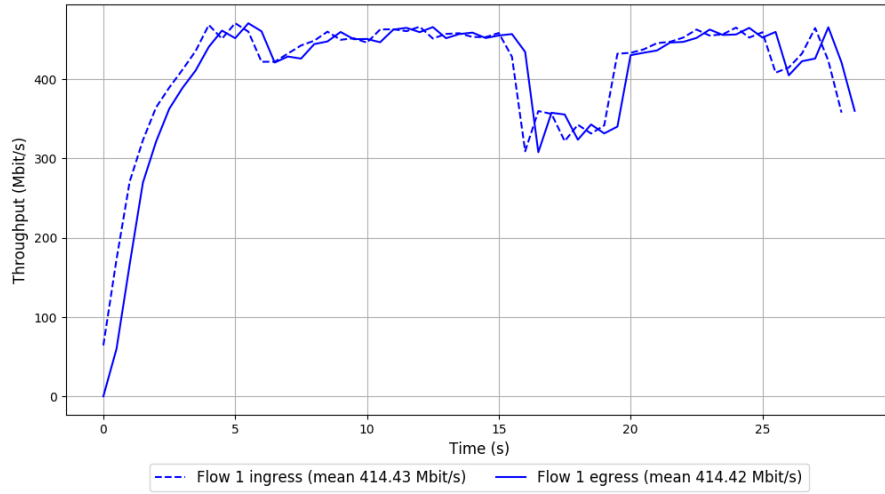
-- Flow 1:

Average throughput: 414.42 Mbit/s

95th percentile per-packet one-way delay: 19.203 ms

Loss rate: 0.08%

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





Run 4: Statistics of Indigo-MusesC5

Start at: 2019-11-24 13:23:08

End at: 2019-11-24 13:23:38

Local clock offset: 3.445 ms

Remote clock offset: 4.591 ms

# Below is generated by plot.py at 2019-11-24 15:14:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 213.54 Mbit/s

95th percentile per-packet one-way delay: 0.961 ms

Loss rate: 0.01%

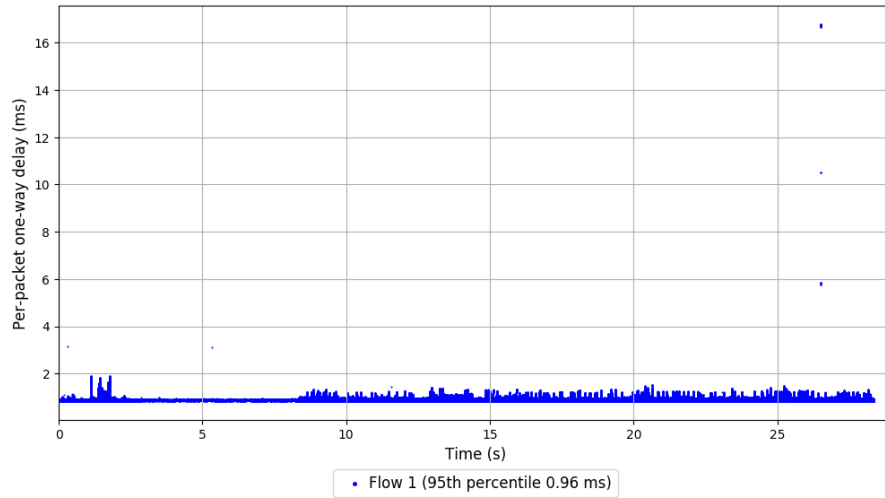
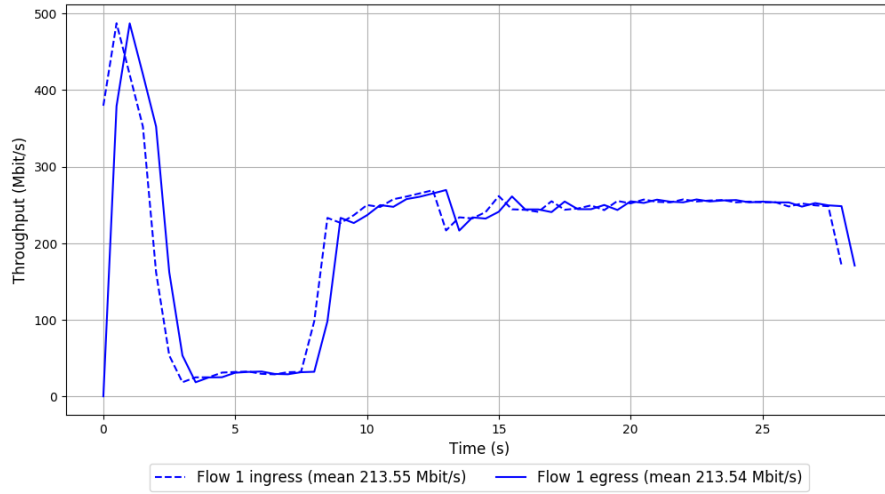
-- Flow 1:

Average throughput: 213.54 Mbit/s

95th percentile per-packet one-way delay: 0.961 ms

Loss rate: 0.01%

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



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-11-24 13:56:55

End at: 2019-11-24 13:57:25

Local clock offset: 3.603 ms

Remote clock offset: -3.248 ms

# Below is generated by plot.py at 2019-11-24 15:14:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 459.00 Mbit/s

95th percentile per-packet one-way delay: 19.454 ms

Loss rate: 0.08%

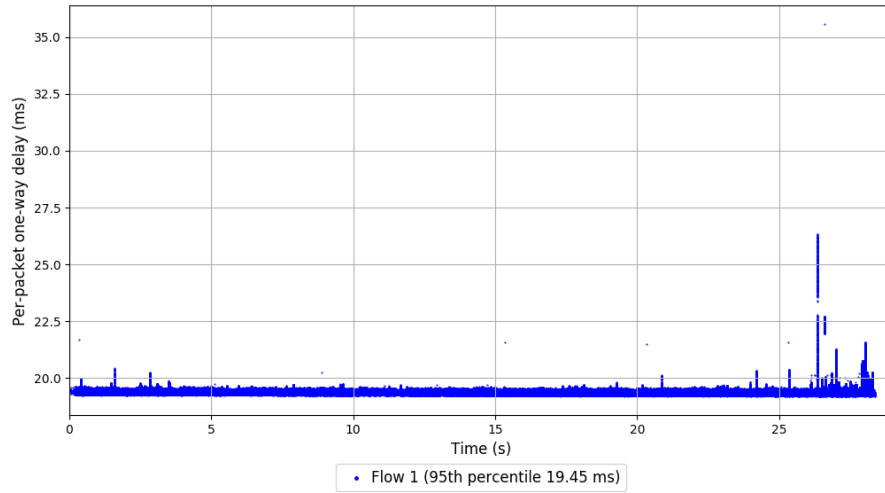
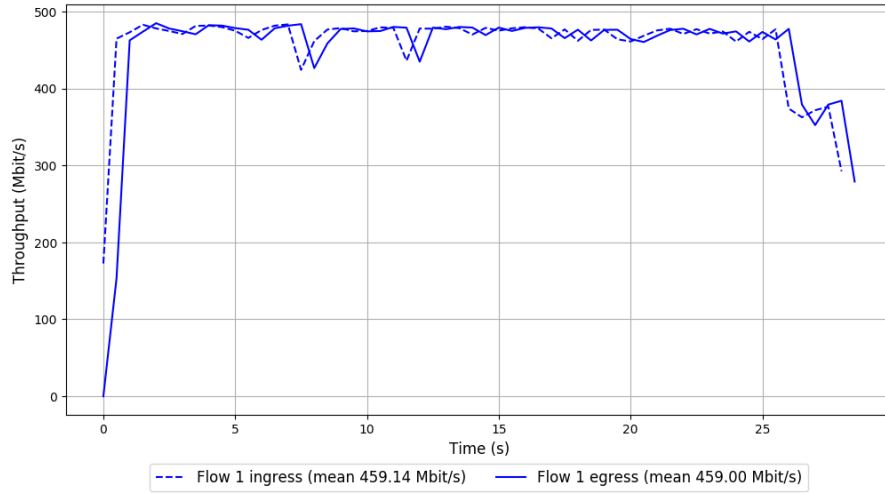
-- Flow 1:

Average throughput: 459.00 Mbit/s

95th percentile per-packet one-way delay: 19.454 ms

Loss rate: 0.08%

### Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-11-24 11:44:26

End at: 2019-11-24 11:44:56

Local clock offset: 3.32 ms

Remote clock offset: -3.638 ms

# Below is generated by plot.py at 2019-11-24 15:14:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.45 Mbit/s

95th percentile per-packet one-way delay: 0.865 ms

Loss rate: 0.01%

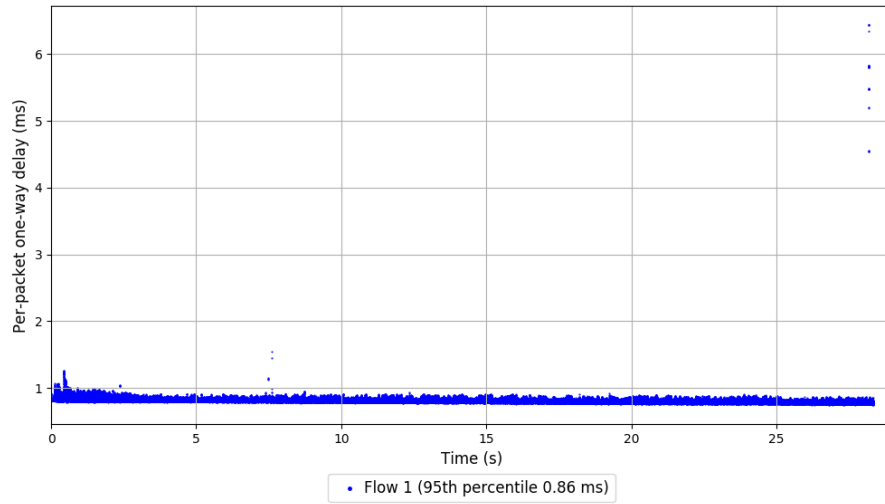
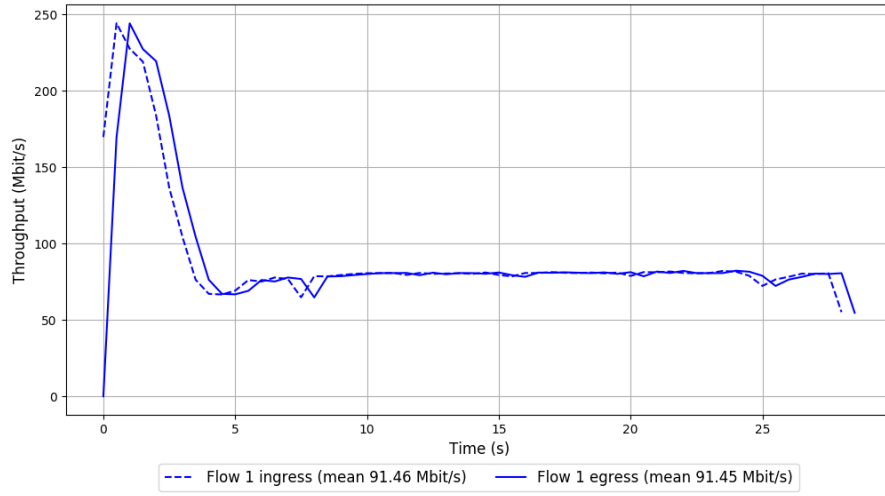
-- Flow 1:

Average throughput: 91.45 Mbit/s

95th percentile per-packet one-way delay: 0.865 ms

Loss rate: 0.01%

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



Run 2: Statistics of Indigo-MusesD

Start at: 2019-11-24 12:18:12

End at: 2019-11-24 12:18:42

Local clock offset: 3.521 ms

Remote clock offset: -3.219 ms

# Below is generated by plot.py at 2019-11-24 15:14:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.17 Mbit/s

95th percentile per-packet one-way delay: 1.026 ms

Loss rate: 0.01%

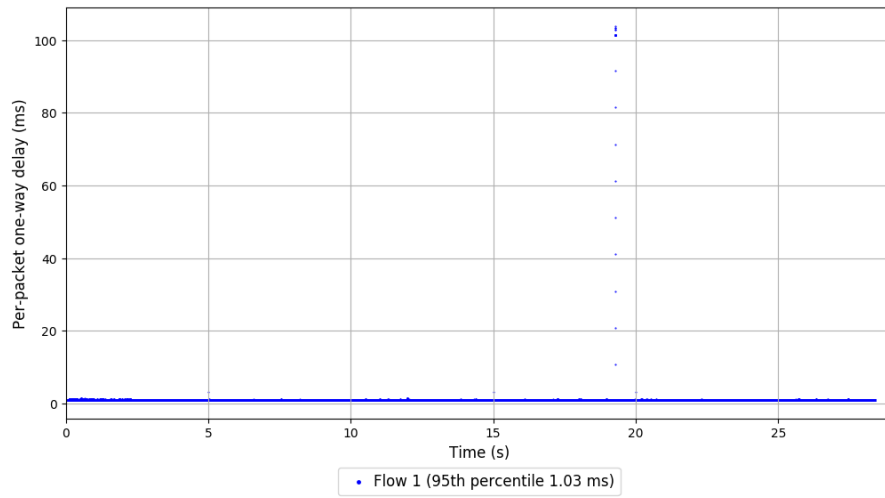
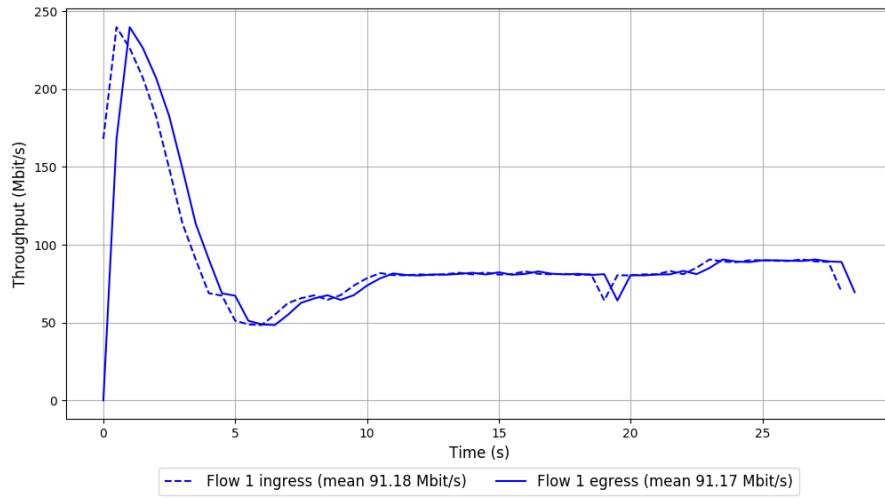
-- Flow 1:

Average throughput: 91.17 Mbit/s

95th percentile per-packet one-way delay: 1.026 ms

Loss rate: 0.01%

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





Run 3: Statistics of Indigo-MusesD

Start at: 2019-11-24 12:51:56

End at: 2019-11-24 12:52:26

Local clock offset: 2.829 ms

Remote clock offset: 5.704 ms

# Below is generated by plot.py at 2019-11-24 15:15:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 370.89 Mbit/s

95th percentile per-packet one-way delay: 19.127 ms

Loss rate: 0.09%

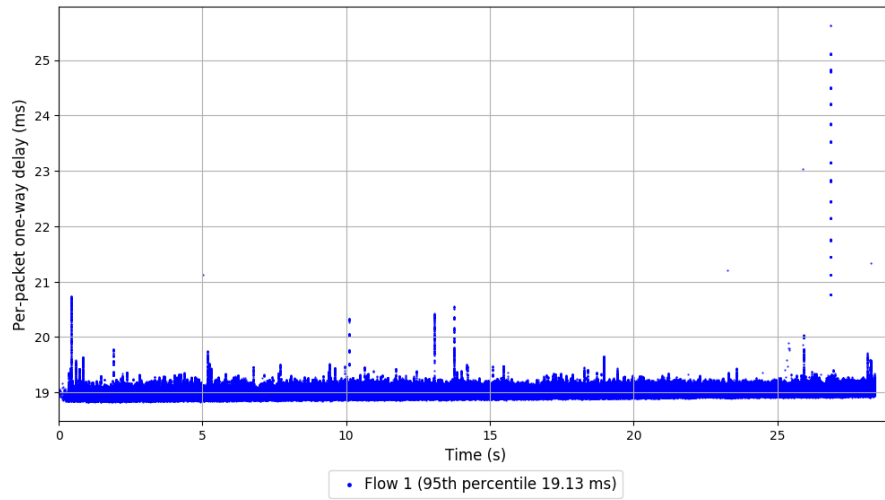
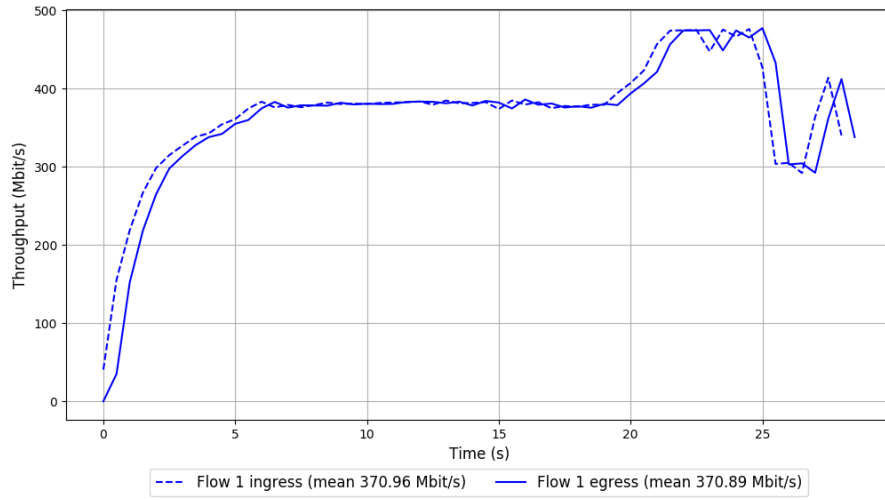
-- Flow 1:

Average throughput: 370.89 Mbit/s

95th percentile per-packet one-way delay: 19.127 ms

Loss rate: 0.09%

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



Run 4: Statistics of Indigo-MusesD

Start at: 2019-11-24 13:25:54

End at: 2019-11-24 13:26:24

Local clock offset: 3.522 ms

Remote clock offset: 4.642 ms

# Below is generated by plot.py at 2019-11-24 15:15:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 361.02 Mbit/s

95th percentile per-packet one-way delay: 19.114 ms

Loss rate: 0.07%

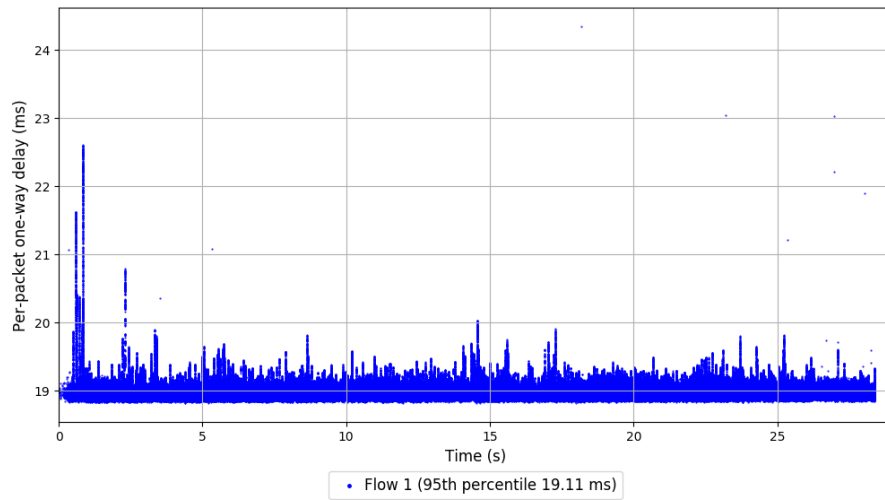
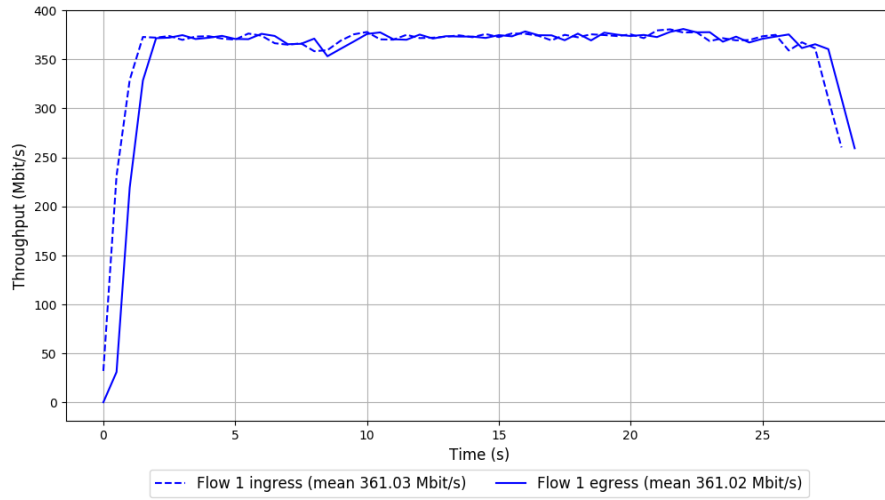
-- Flow 1:

Average throughput: 361.02 Mbit/s

95th percentile per-packet one-way delay: 19.114 ms

Loss rate: 0.07%

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



Run 5: Statistics of Indigo-MusesD

Start at: 2019-11-24 13:59:48

End at: 2019-11-24 14:00:18

Local clock offset: 3.621 ms

Remote clock offset: -3.57 ms

# Below is generated by plot.py at 2019-11-24 15:16:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 436.64 Mbit/s

95th percentile per-packet one-way delay: 19.478 ms

Loss rate: 0.08%

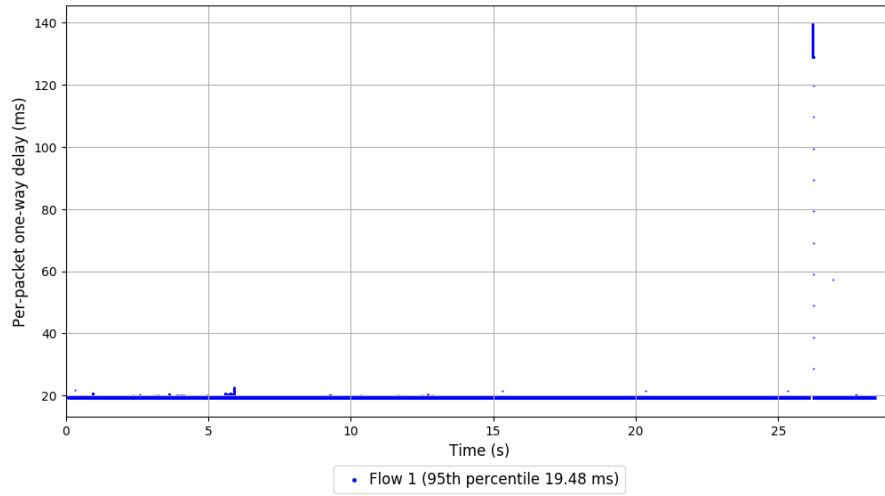
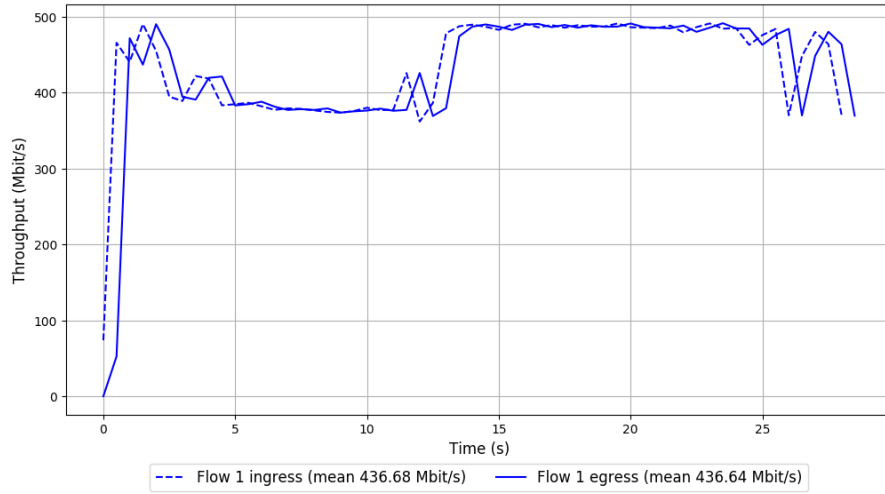
-- Flow 1:

Average throughput: 436.64 Mbit/s

95th percentile per-packet one-way delay: 19.478 ms

Loss rate: 0.08%

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



Run 1: Statistics of Indigo-MuseST

Start at: 2019-11-24 11:43:06

End at: 2019-11-24 11:43:36

Local clock offset: 3.165 ms

Remote clock offset: -3.564 ms

# Below is generated by plot.py at 2019-11-24 15:16:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 222.41 Mbit/s

95th percentile per-packet one-way delay: 0.778 ms

Loss rate: 0.00%

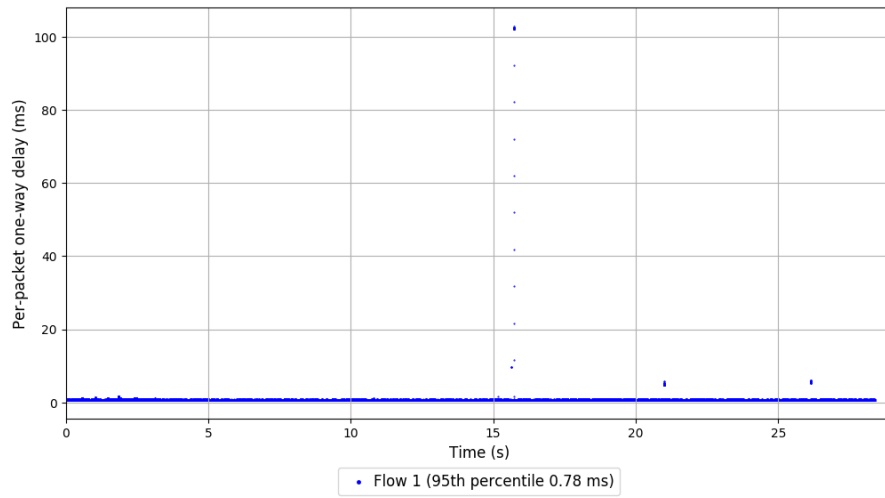
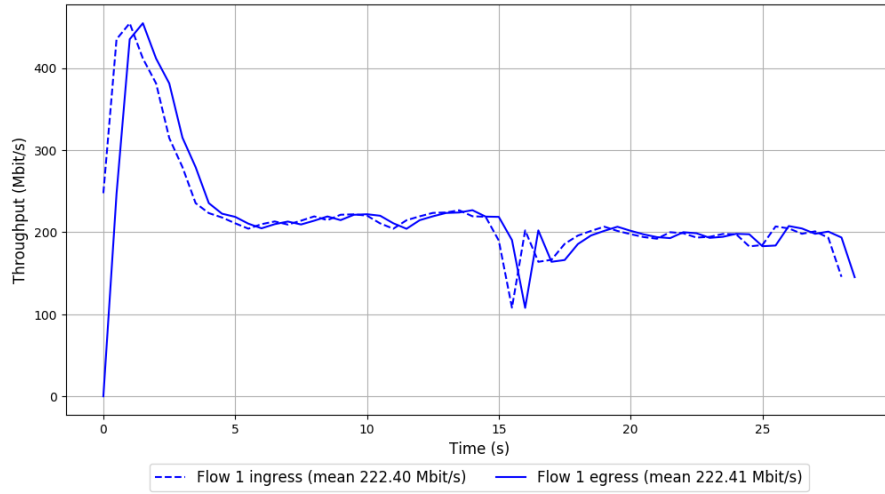
-- Flow 1:

Average throughput: 222.41 Mbit/s

95th percentile per-packet one-way delay: 0.778 ms

Loss rate: 0.00%

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





Run 2: Statistics of Indigo-MuseST

Start at: 2019-11-24 12:16:53

End at: 2019-11-24 12:17:23

Local clock offset: 3.566 ms

Remote clock offset: -3.267 ms

# Below is generated by plot.py at 2019-11-24 15:16:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 203.39 Mbit/s

95th percentile per-packet one-way delay: 1.079 ms

Loss rate: 0.01%

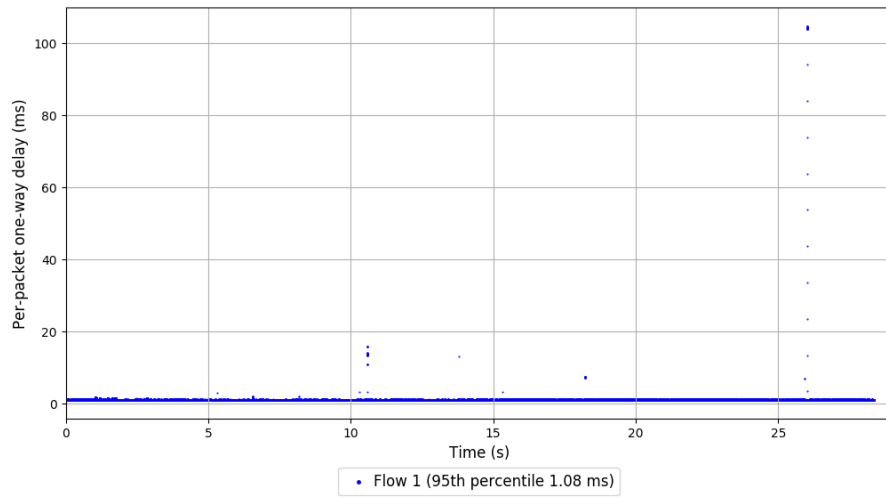
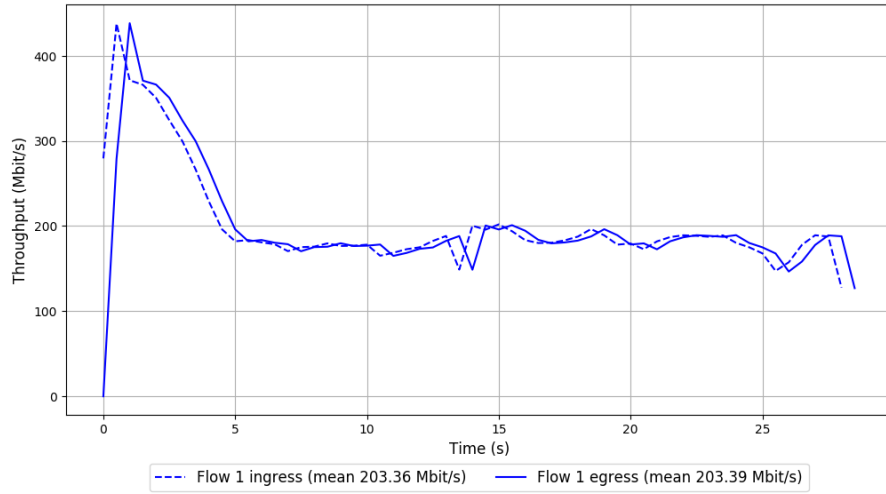
-- Flow 1:

Average throughput: 203.39 Mbit/s

95th percentile per-packet one-way delay: 1.079 ms

Loss rate: 0.01%

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



Run 3: Statistics of Indigo-MuseST

Start at: 2019-11-24 12:50:31

End at: 2019-11-24 12:51:01

Local clock offset: 2.84 ms

Remote clock offset: 5.493 ms

# Below is generated by plot.py at 2019-11-24 15:16:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 385.35 Mbit/s

95th percentile per-packet one-way delay: 18.386 ms

Loss rate: 0.07%

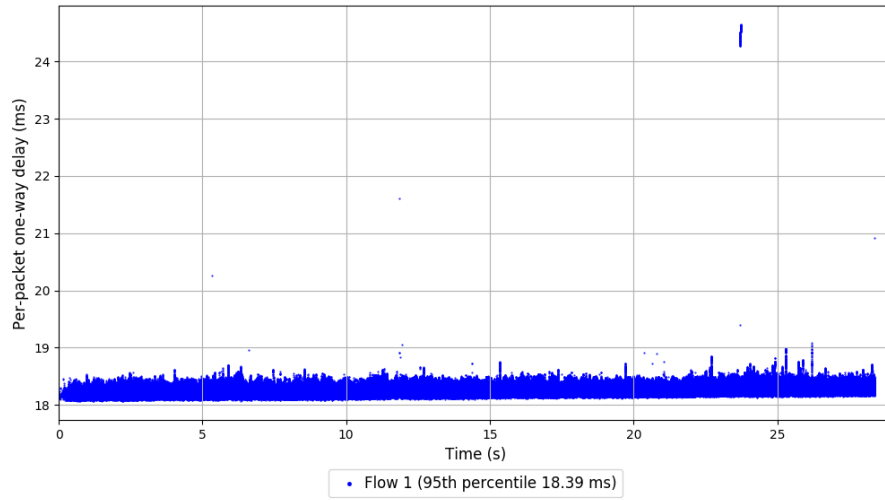
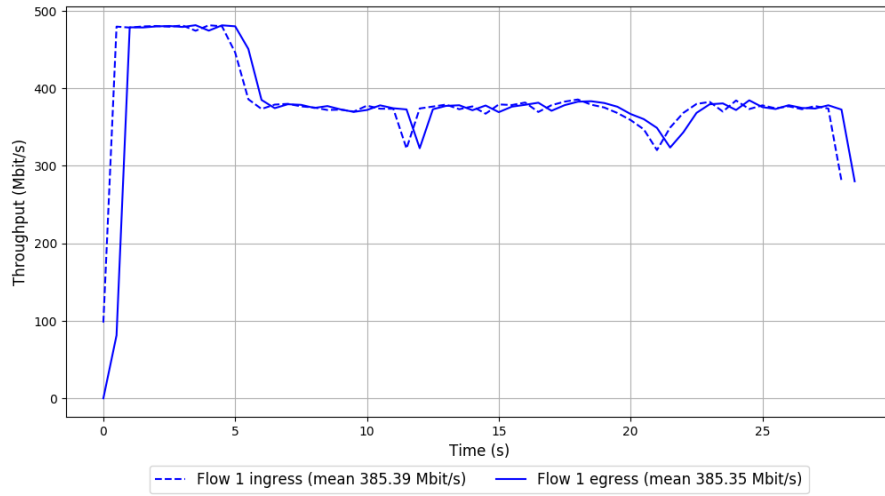
-- Flow 1:

Average throughput: 385.35 Mbit/s

95th percentile per-packet one-way delay: 18.386 ms

Loss rate: 0.07%

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



Run 4: Statistics of Indigo-MuseST

Start at: 2019-11-24 13:24:27

End at: 2019-11-24 13:24:57

Local clock offset: 3.48 ms

Remote clock offset: 4.62 ms

# Below is generated by plot.py at 2019-11-24 15:19:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 451.99 Mbit/s

95th percentile per-packet one-way delay: 19.937 ms

Loss rate: 0.07%

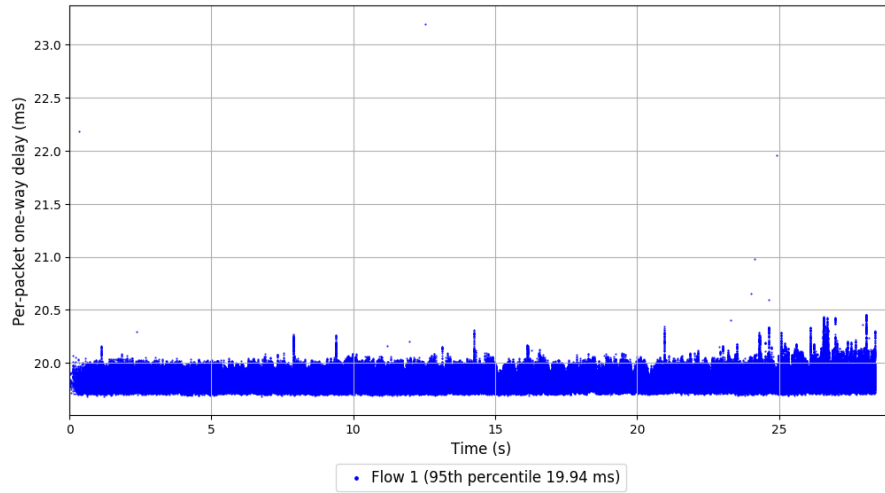
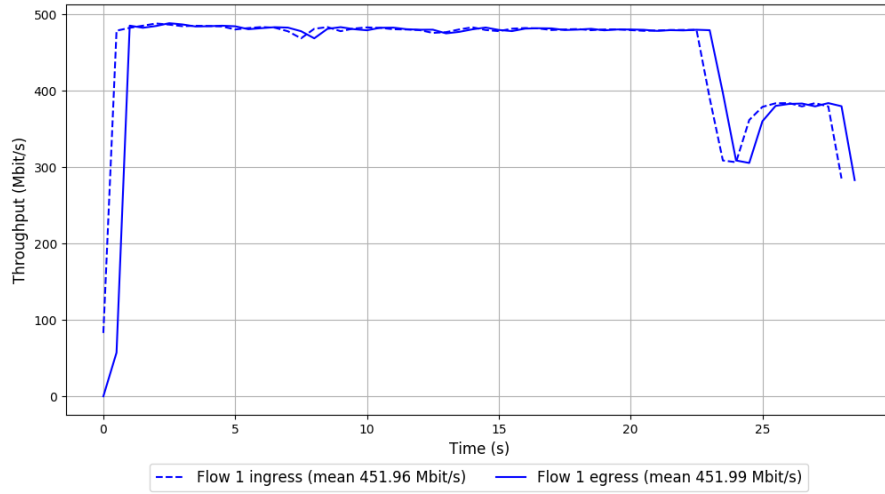
-- Flow 1:

Average throughput: 451.99 Mbit/s

95th percentile per-packet one-way delay: 19.937 ms

Loss rate: 0.07%

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



Run 5: Statistics of Indigo-MuseST

Start at: 2019-11-24 13:58:22

End at: 2019-11-24 13:58:52

Local clock offset: 3.609 ms

Remote clock offset: -3.422 ms

# Below is generated by plot.py at 2019-11-24 15:19:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 444.43 Mbit/s

95th percentile per-packet one-way delay: 19.462 ms

Loss rate: 0.07%

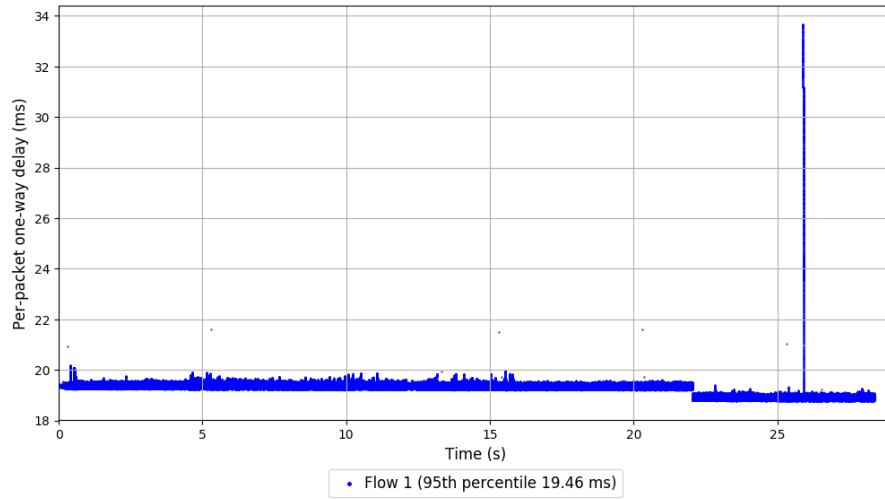
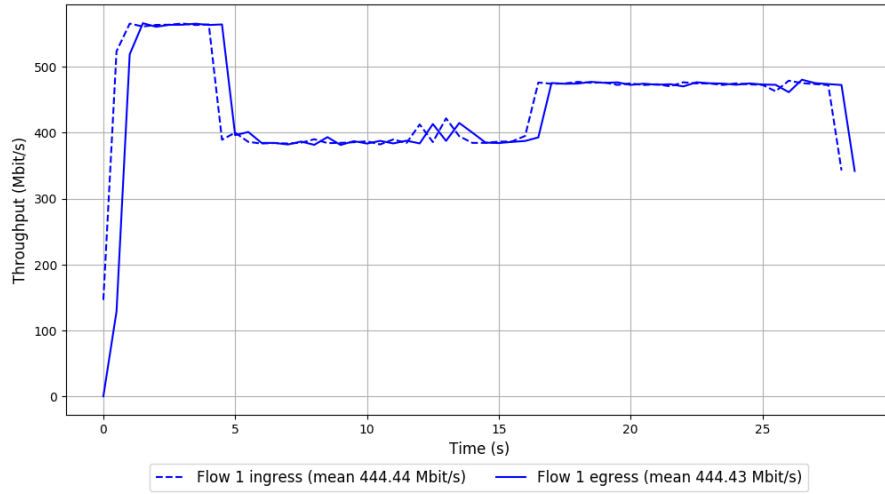
-- Flow 1:

Average throughput: 444.43 Mbit/s

95th percentile per-packet one-way delay: 19.462 ms

Loss rate: 0.07%

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





Run 1: Statistics of LEDBAT

Start at: 2019-11-24 12:01:25

End at: 2019-11-24 12:01:55

Local clock offset: 3.958 ms

Remote clock offset: -3.474 ms

# Below is generated by plot.py at 2019-11-24 15:19:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 471.26 Mbit/s

95th percentile per-packet one-way delay: 0.994 ms

Loss rate: 0.01%

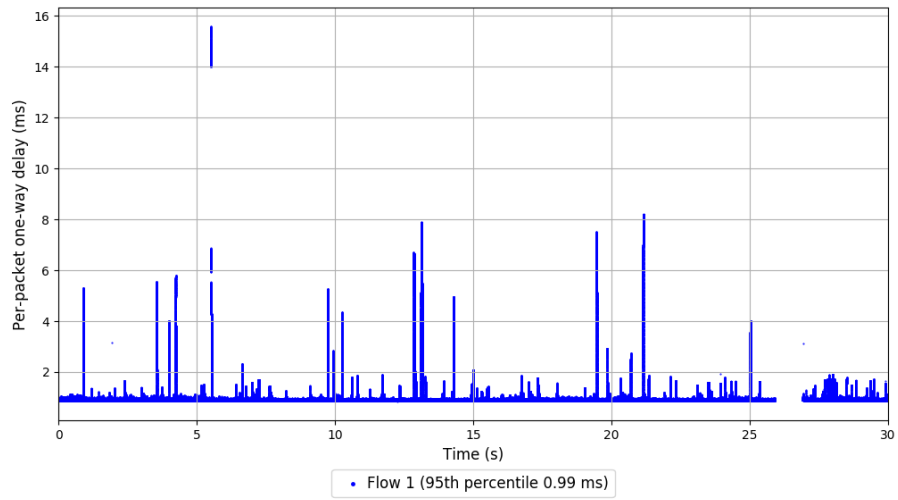
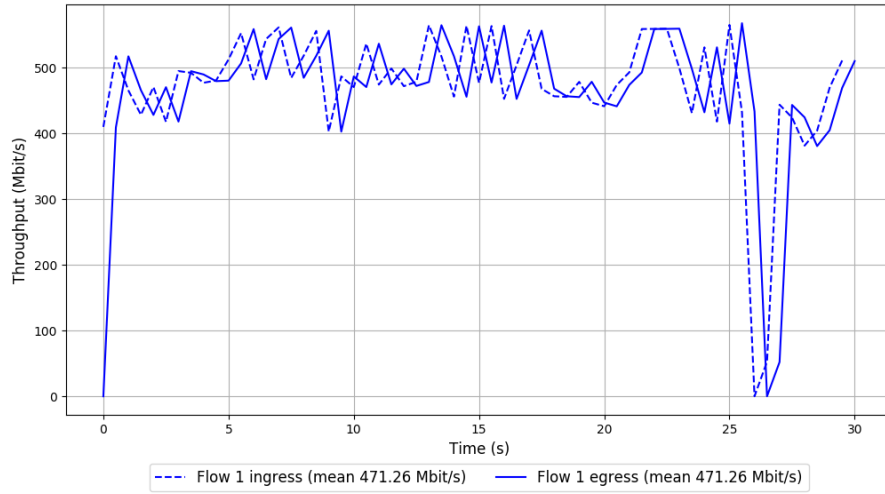
-- Flow 1:

Average throughput: 471.26 Mbit/s

95th percentile per-packet one-way delay: 0.994 ms

Loss rate: 0.01%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-11-24 12:35:14

End at: 2019-11-24 12:35:44

Local clock offset: 3.197 ms

Remote clock offset: 1.344 ms

# Below is generated by plot.py at 2019-11-24 15:19:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 364.23 Mbit/s

95th percentile per-packet one-way delay: 19.721 ms

Loss rate: 0.08%

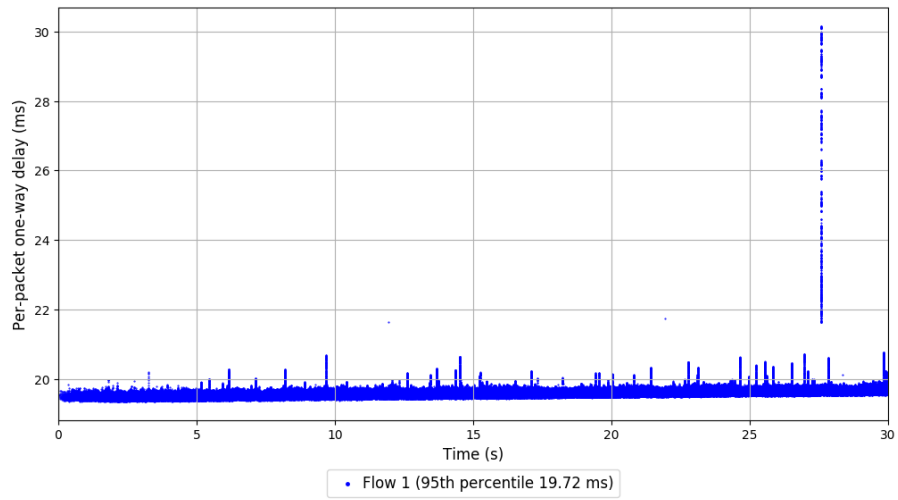
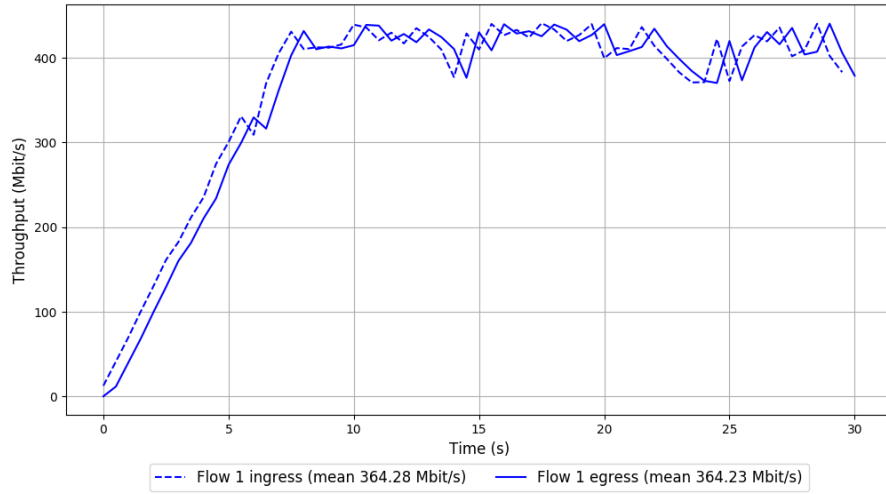
-- Flow 1:

Average throughput: 364.23 Mbit/s

95th percentile per-packet one-way delay: 19.721 ms

Loss rate: 0.08%

## Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-11-24 13:09:12

End at: 2019-11-24 13:09:42

Local clock offset: 2.636 ms

Remote clock offset: 5.062 ms

# Below is generated by plot.py at 2019-11-24 15:20:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 447.11 Mbit/s

95th percentile per-packet one-way delay: 11.571 ms

Loss rate: 0.01%

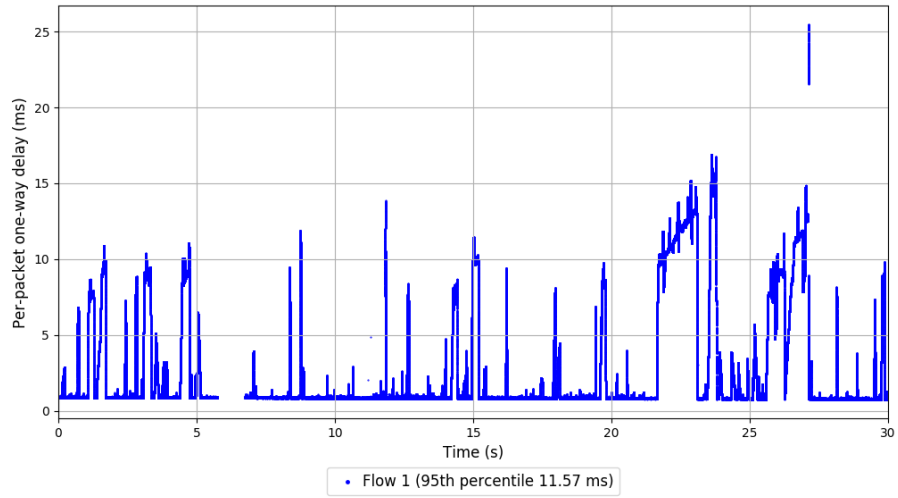
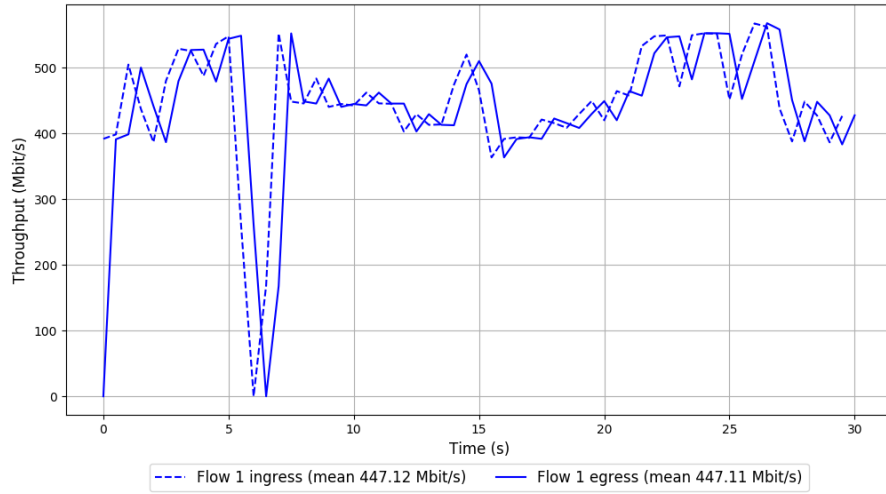
-- Flow 1:

Average throughput: 447.11 Mbit/s

95th percentile per-packet one-way delay: 11.571 ms

Loss rate: 0.01%

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



Run 4: Statistics of LEDBAT

Start at: 2019-11-24 13:42:51

End at: 2019-11-24 13:43:21

Local clock offset: 3.639 ms

Remote clock offset: 0.279 ms

# Below is generated by plot.py at 2019-11-24 15:20:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 366.12 Mbit/s

95th percentile per-packet one-way delay: 18.279 ms

Loss rate: 0.07%

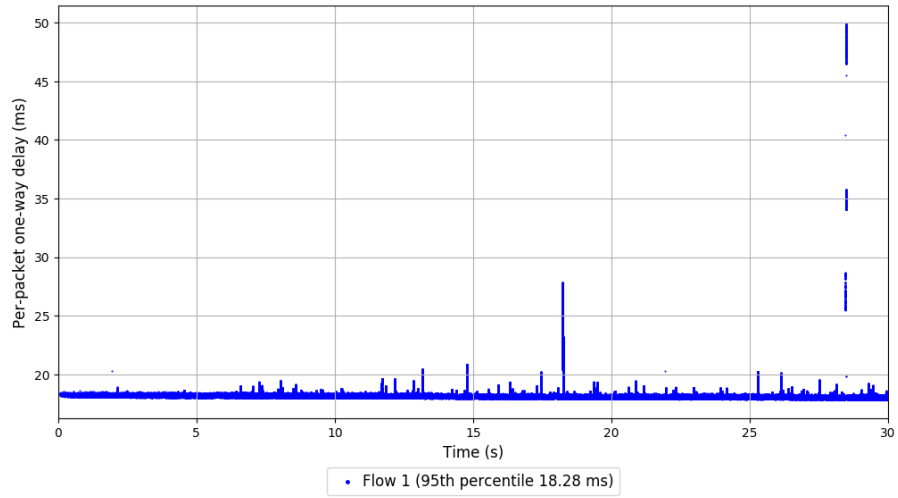
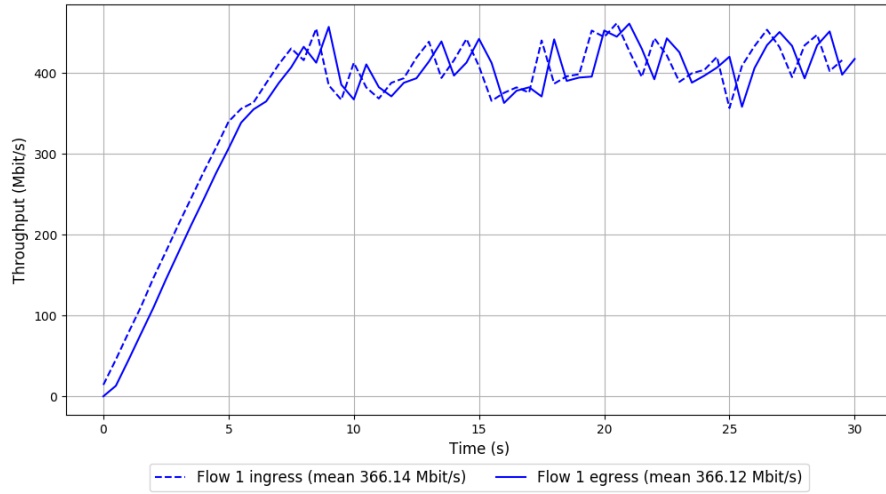
-- Flow 1:

Average throughput: 366.12 Mbit/s

95th percentile per-packet one-way delay: 18.279 ms

Loss rate: 0.07%

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





Run 5: Statistics of LEDBAT

Start at: 2019-11-24 14:17:00

End at: 2019-11-24 14:17:30

Local clock offset: 3.569 ms

Remote clock offset: -3.725 ms

# Below is generated by plot.py at 2019-11-24 15:22:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 499.45 Mbit/s

95th percentile per-packet one-way delay: 3.783 ms

Loss rate: 0.03%

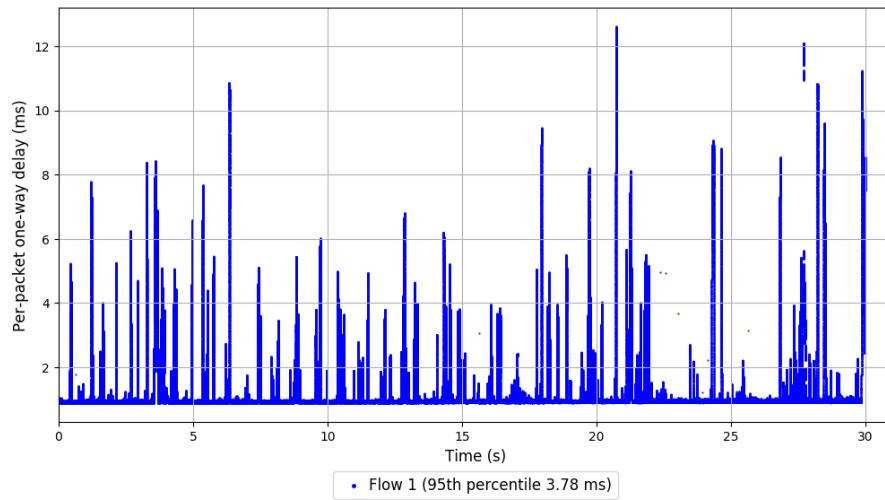
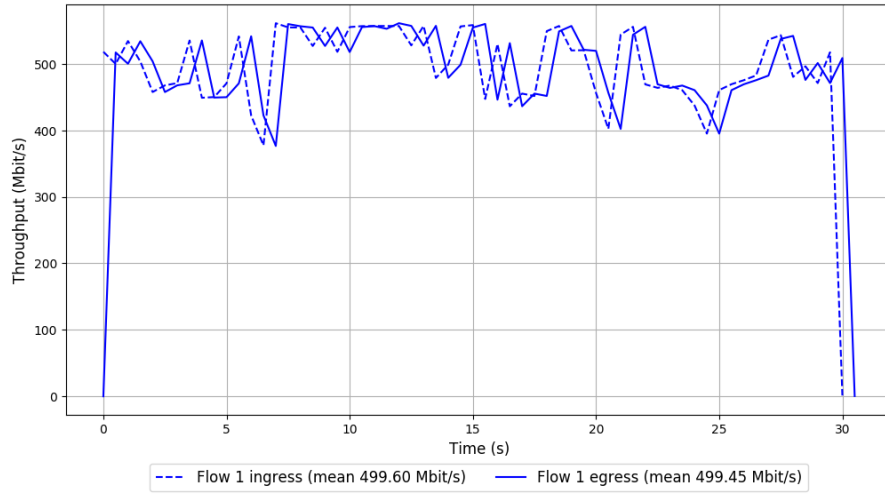
-- Flow 1:

Average throughput: 499.45 Mbit/s

95th percentile per-packet one-way delay: 3.783 ms

Loss rate: 0.03%

Run 5: Report of LEDBAT — Data Link

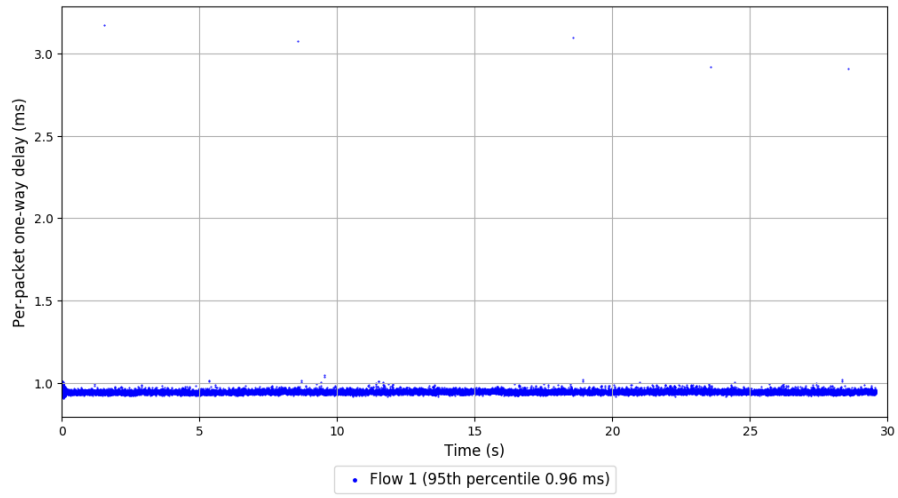
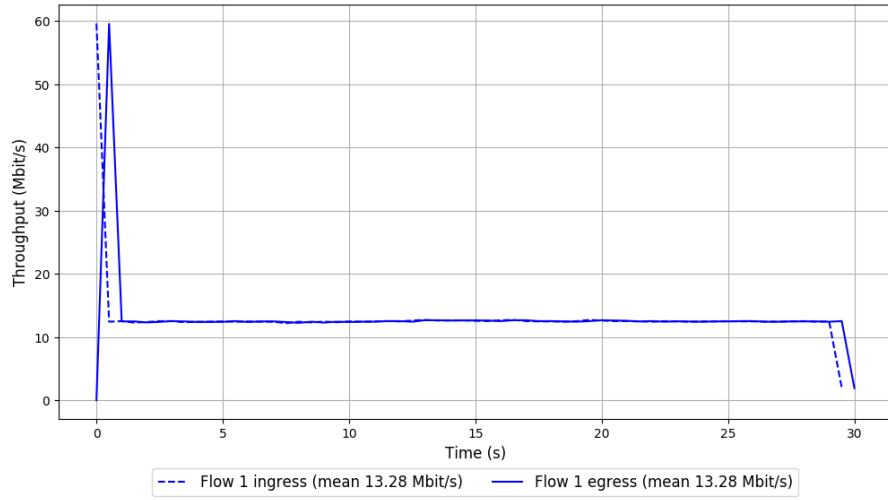


Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 12:04:33  
End at: 2019-11-24 12:05:03  
Local clock offset: 4.009 ms  
Remote clock offset: -3.423 ms

# Below is generated by plot.py at 2019-11-24 15:22:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 13.28 Mbit/s  
95th percentile per-packet one-way delay: 0.961 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 13.28 Mbit/s  
95th percentile per-packet one-way delay: 0.961 ms  
Loss rate: 0.01%

Run 1: Report of Muses\_DecisionTree — Data Link



Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 12:38:15

End at: 2019-11-24 12:38:45

Local clock offset: 3.185 ms

Remote clock offset: 2.518 ms

# Below is generated by plot.py at 2019-11-24 15:22:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 43.13 Mbit/s

95th percentile per-packet one-way delay: 19.412 ms

Loss rate: 0.05%

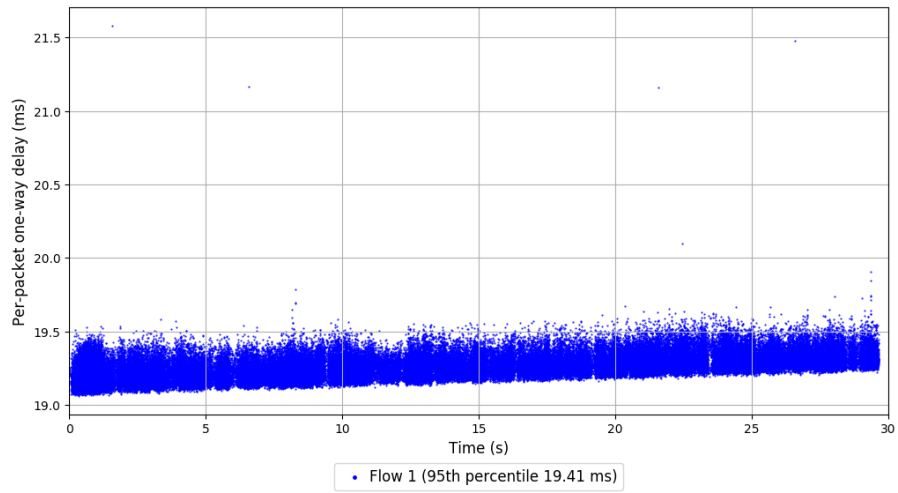
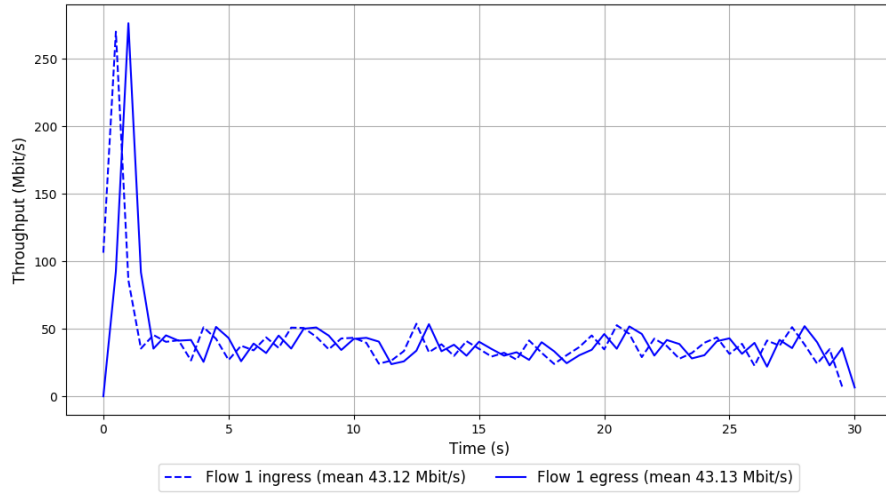
-- Flow 1:

Average throughput: 43.13 Mbit/s

95th percentile per-packet one-way delay: 19.412 ms

Loss rate: 0.05%

Run 2: Report of Muses\_DecisionTree — Data Link



Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 13:12:20

End at: 2019-11-24 13:12:50

Local clock offset: 2.913 ms

Remote clock offset: 4.742 ms

# Below is generated by plot.py at 2019-11-24 15:22:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.55 Mbit/s

95th percentile per-packet one-way delay: 0.873 ms

Loss rate: 0.01%

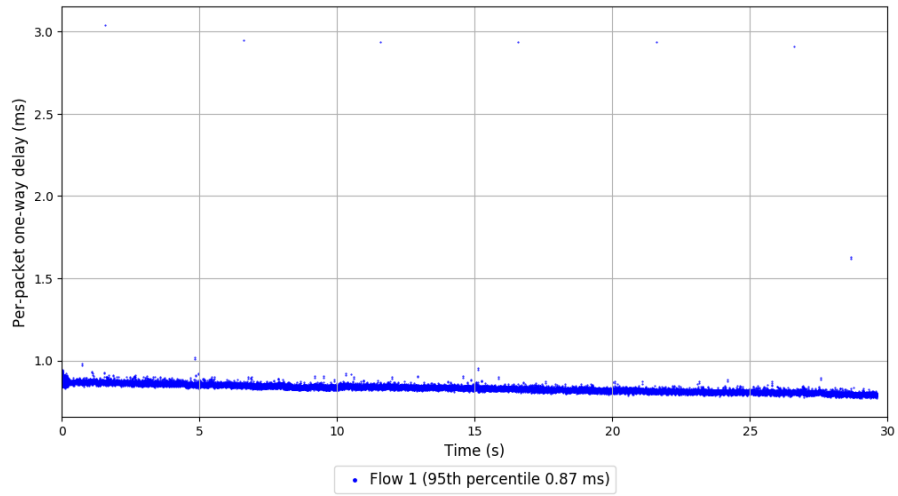
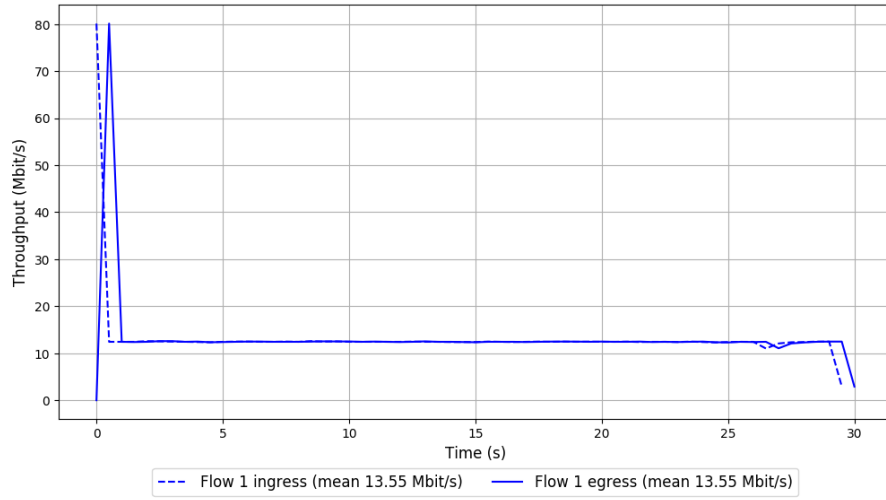
-- Flow 1:

Average throughput: 13.55 Mbit/s

95th percentile per-packet one-way delay: 0.873 ms

Loss rate: 0.01%

### Run 3: Report of Muses\_DecisionTree — Data Link



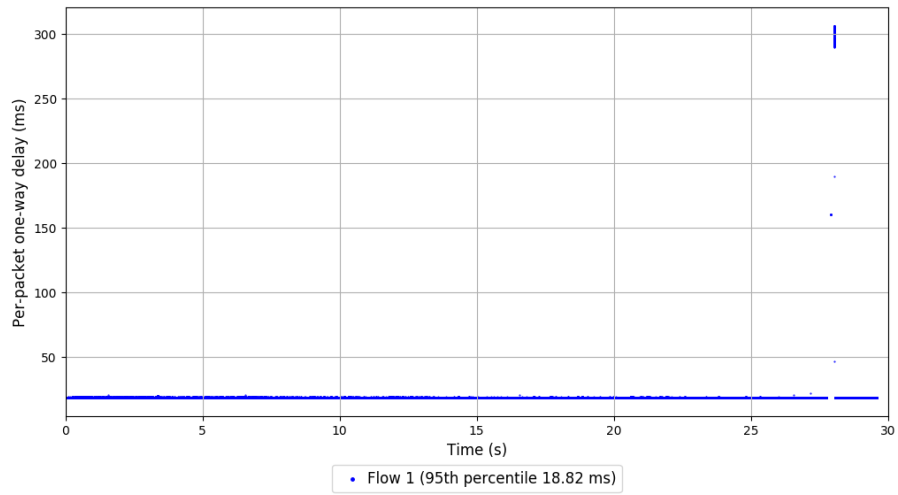
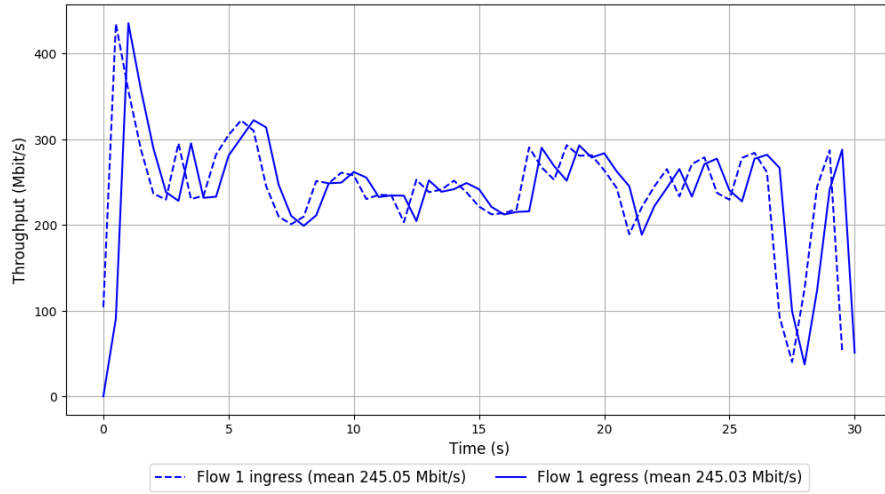


Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 13:45:55  
End at: 2019-11-24 13:46:25  
Local clock offset: 3.631 ms  
Remote clock offset: -0.798 ms

# Below is generated by plot.py at 2019-11-24 15:22:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 245.03 Mbit/s  
95th percentile per-packet one-way delay: 18.825 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 245.03 Mbit/s  
95th percentile per-packet one-way delay: 18.825 ms  
Loss rate: 0.07%

Run 4: Report of Muses\_DecisionTree — Data Link

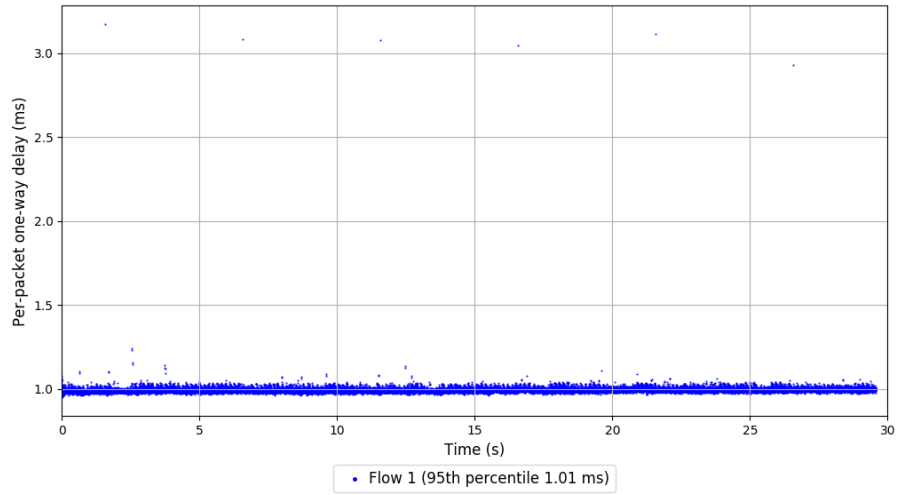
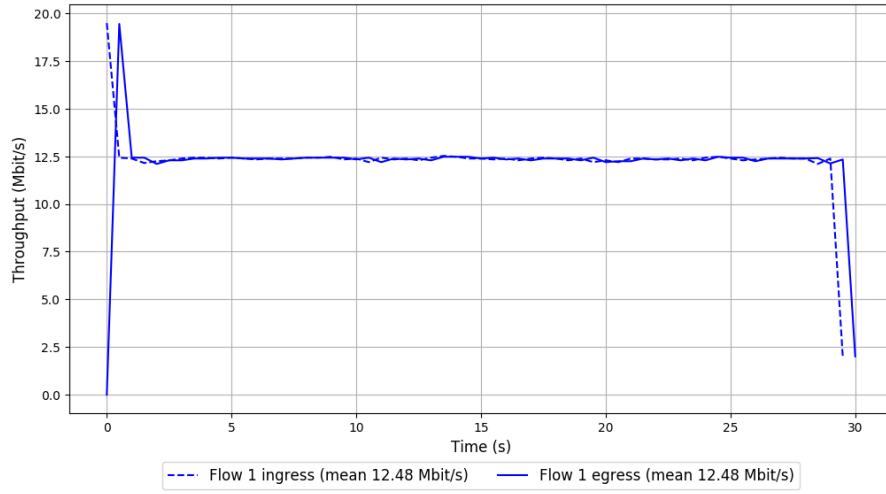


Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 14:20:09  
End at: 2019-11-24 14:20:39  
Local clock offset: 3.563 ms  
Remote clock offset: -3.675 ms

# Below is generated by plot.py at 2019-11-24 15:22:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.48 Mbit/s  
95th percentile per-packet one-way delay: 1.015 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 12.48 Mbit/s  
95th percentile per-packet one-way delay: 1.015 ms  
Loss rate: 0.01%

Run 5: Report of Muses\_DecisionTree — Data Link



Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 12:08:29  
End at: 2019-11-24 12:08:59  
Local clock offset: 4.08 ms  
Remote clock offset: -3.316 ms

# Below is generated by plot.py at 2019-11-24 15:22:58

# Datalink statistics

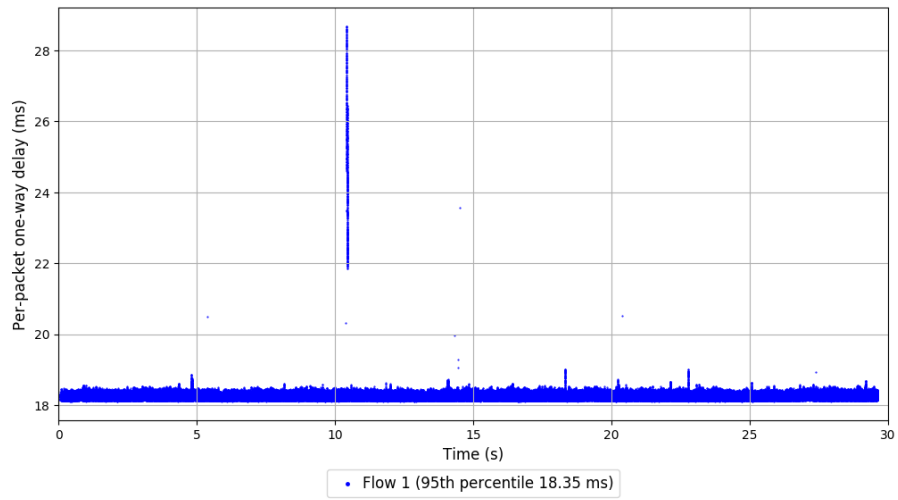
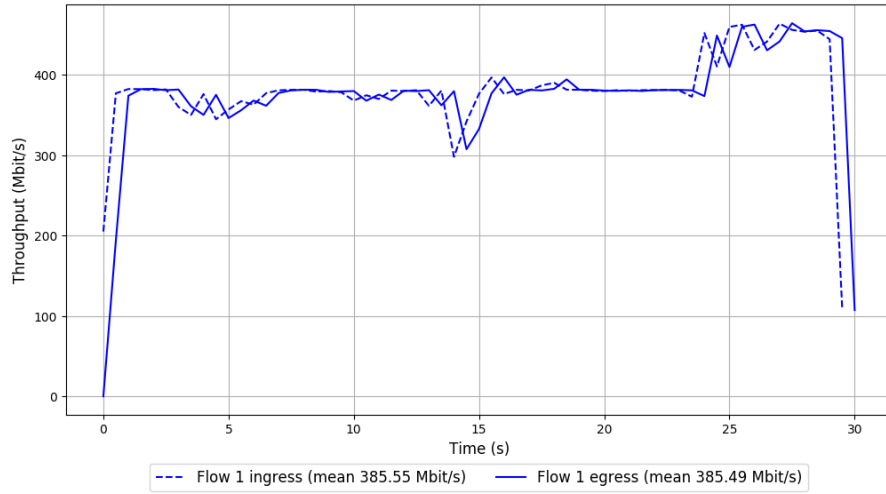
-- Total of 1 flow:

Average throughput: 385.49 Mbit/s  
95th percentile per-packet one-way delay: 18.348 ms  
Loss rate: 0.08%

-- Flow 1:

Average throughput: 385.49 Mbit/s  
95th percentile per-packet one-way delay: 18.348 ms  
Loss rate: 0.08%

Run 1: Report of Muses\_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 12:42:17

End at: 2019-11-24 12:42:47

Local clock offset: 3.065 ms

Remote clock offset: 3.657 ms

# Below is generated by plot.py at 2019-11-24 15:22:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.65 Mbit/s

95th percentile per-packet one-way delay: 1.160 ms

Loss rate: 0.00%

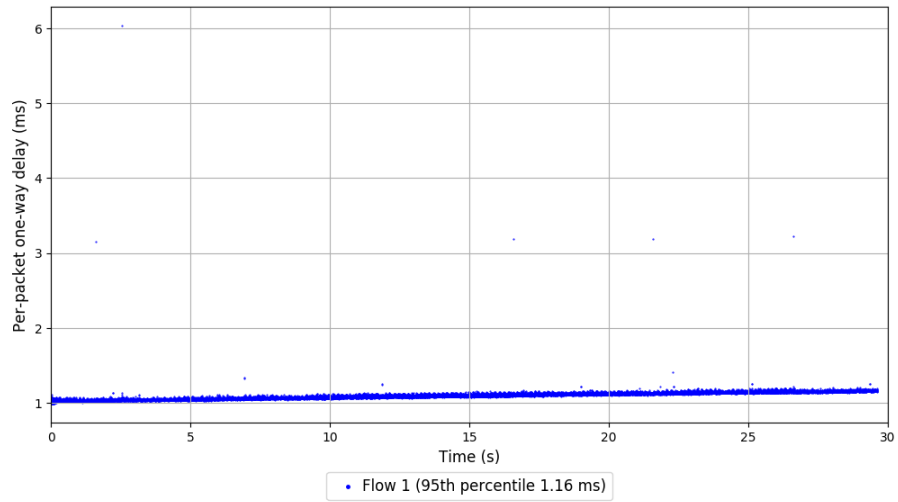
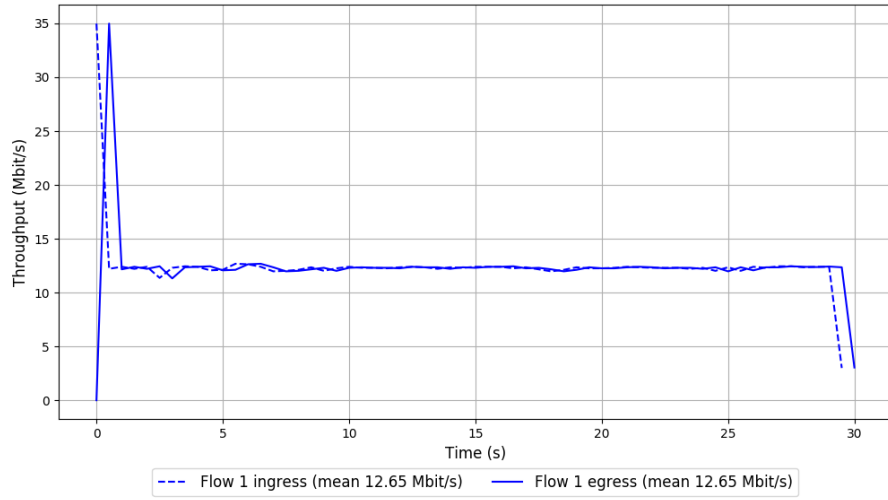
-- Flow 1:

Average throughput: 12.65 Mbit/s

95th percentile per-packet one-way delay: 1.160 ms

Loss rate: 0.00%

Run 2: Report of Muses\_DecisionTreeH0 — Data Link





Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 13:16:26

End at: 2019-11-24 13:16:56

Local clock offset: 3.184 ms

Remote clock offset: 4.614 ms

# Below is generated by plot.py at 2019-11-24 15:22:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.63 Mbit/s

95th percentile per-packet one-way delay: 0.830 ms

Loss rate: 0.01%

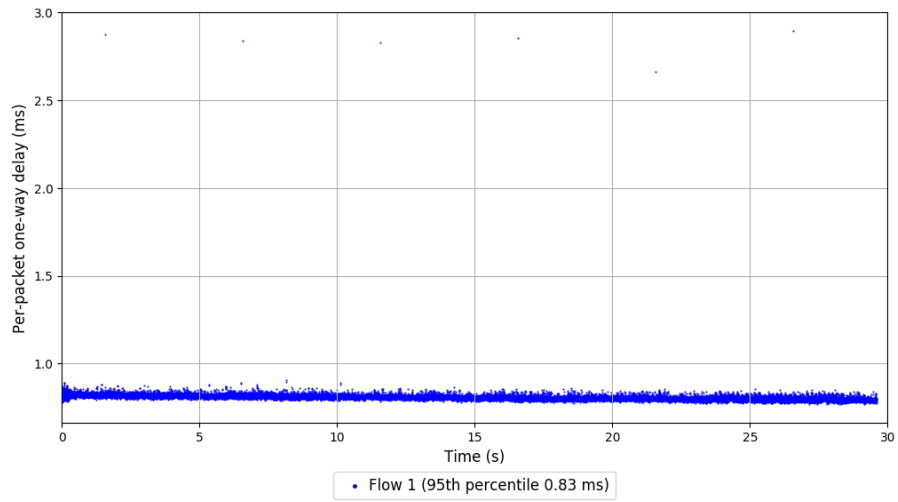
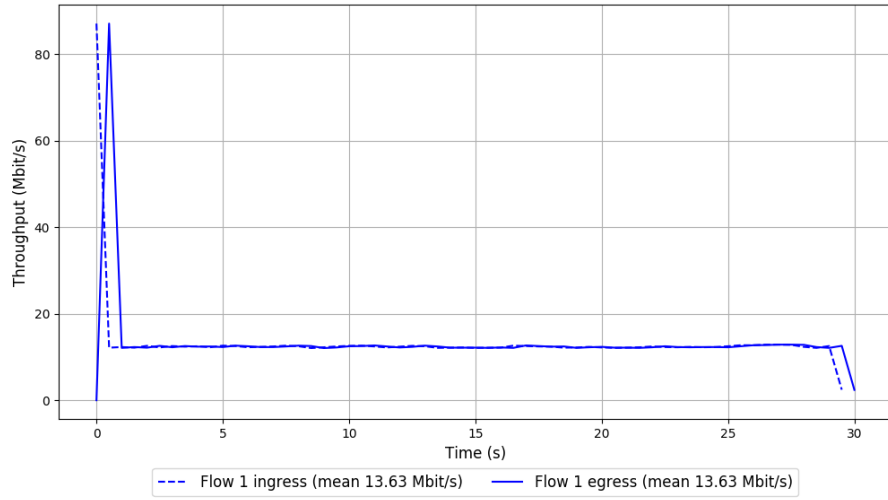
-- Flow 1:

Average throughput: 13.63 Mbit/s

95th percentile per-packet one-way delay: 0.830 ms

Loss rate: 0.01%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link

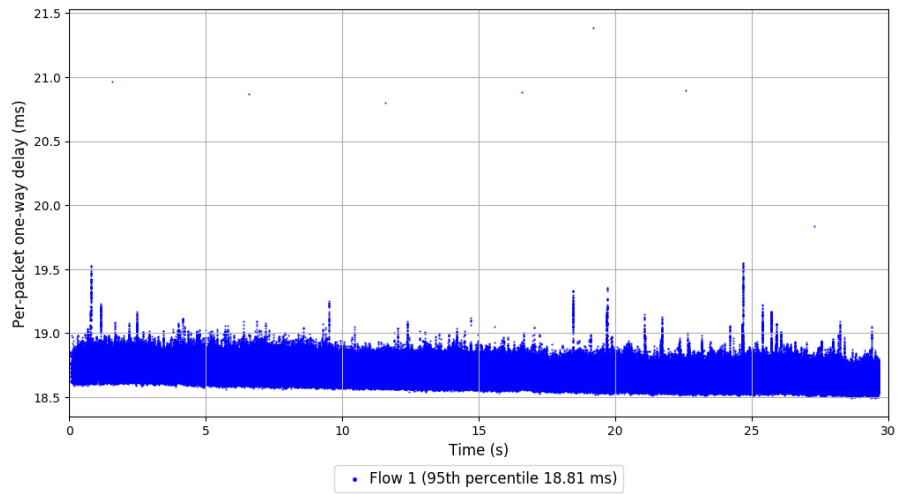
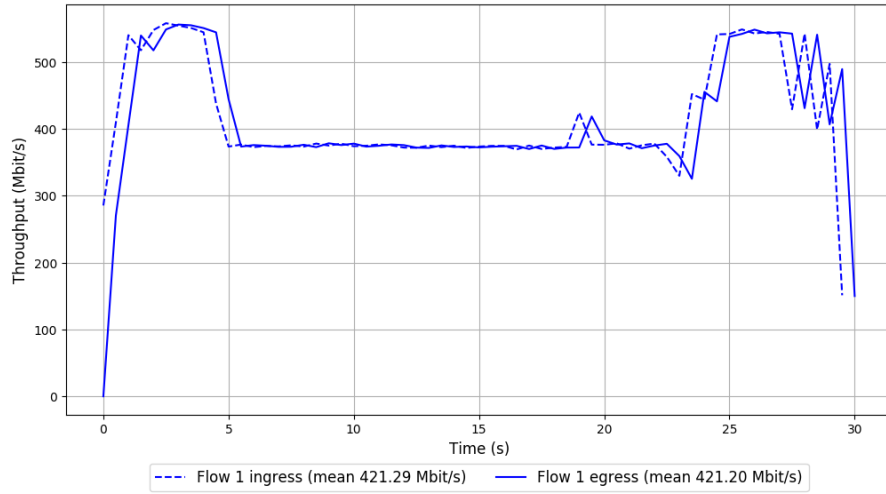


Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 13:49:59  
End at: 2019-11-24 13:50:29  
Local clock offset: 3.607 ms  
Remote clock offset: -2.118 ms

# Below is generated by plot.py at 2019-11-24 15:23:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 421.20 Mbit/s  
95th percentile per-packet one-way delay: 18.809 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 421.20 Mbit/s  
95th percentile per-packet one-way delay: 18.809 ms  
Loss rate: 0.09%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link

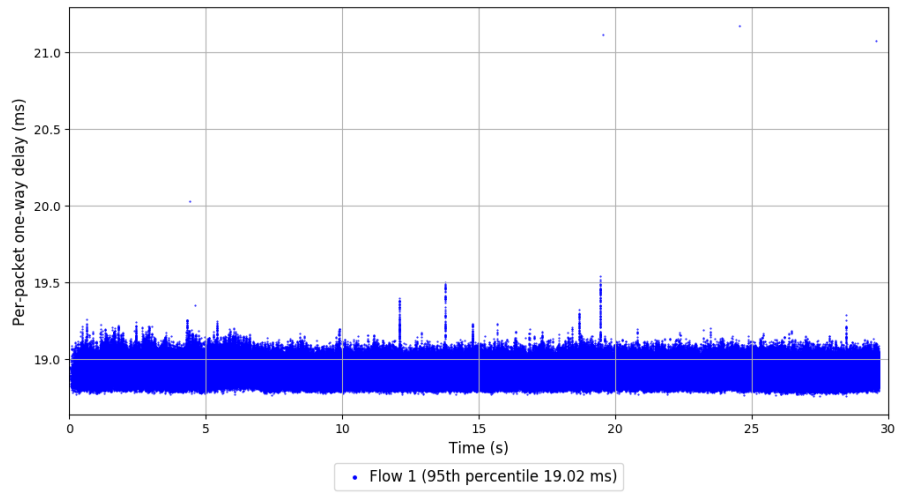
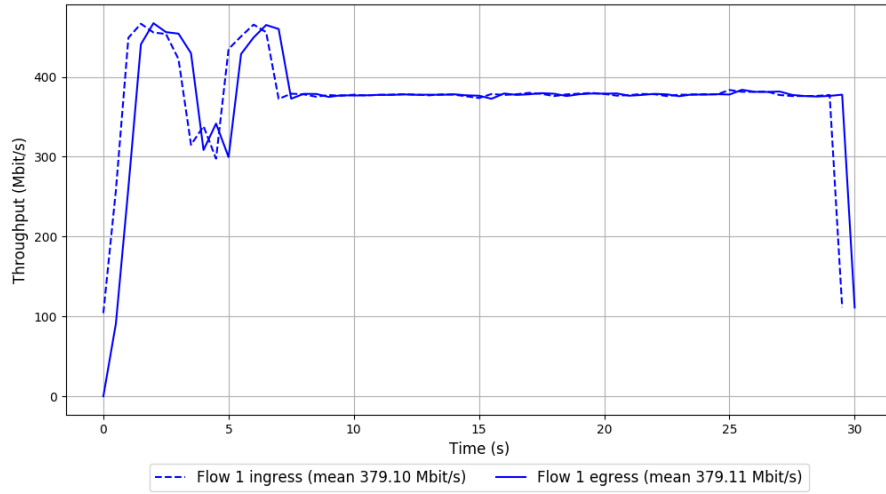


Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 14:24:19  
End at: 2019-11-24 14:24:49  
Local clock offset: 3.578 ms  
Remote clock offset: -3.523 ms

# Below is generated by plot.py at 2019-11-24 15:23:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 379.11 Mbit/s  
95th percentile per-packet one-way delay: 19.016 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 379.11 Mbit/s  
95th percentile per-packet one-way delay: 19.016 ms  
Loss rate: 0.06%

Run 5: Report of Muses\_DecisionTreeH0 — Data Link

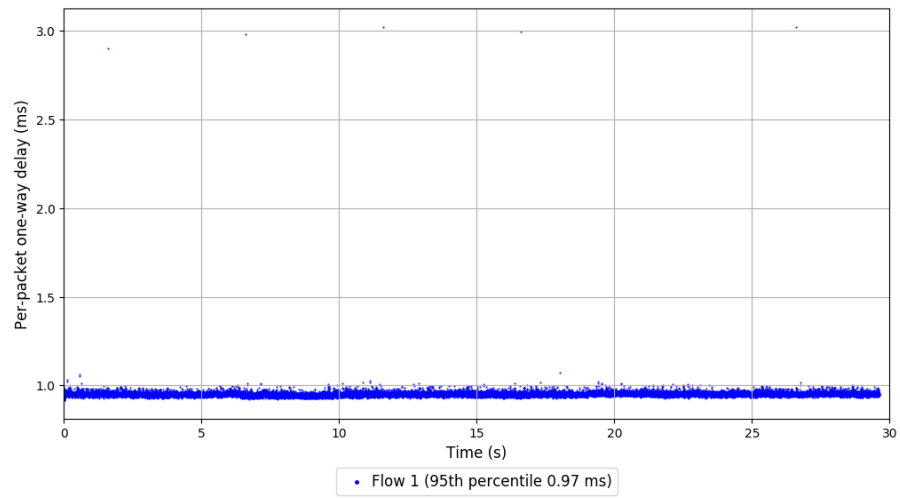
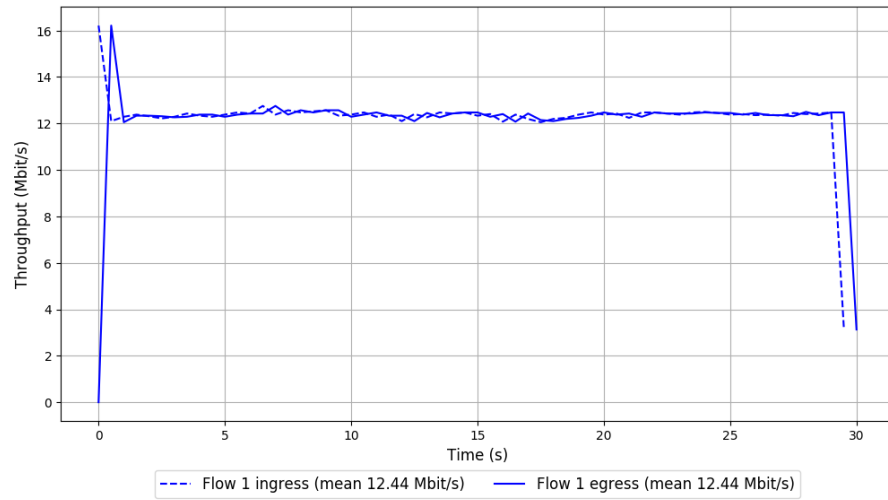


Run 1: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 12:05:46  
End at: 2019-11-24 12:06:16  
Local clock offset: 4.054 ms  
Remote clock offset: -3.379 ms

# Below is generated by plot.py at 2019-11-24 15:23:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.44 Mbit/s  
95th percentile per-packet one-way delay: 0.967 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 12.44 Mbit/s  
95th percentile per-packet one-way delay: 0.967 ms  
Loss rate: 0.01%

Run 1: Report of Muses\_DecisionTreeR0 — Data Link





Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 12:39:30

End at: 2019-11-24 12:40:00

Local clock offset: 3.177 ms

Remote clock offset: 2.866 ms

# Below is generated by plot.py at 2019-11-24 15:23:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 138.40 Mbit/s

95th percentile per-packet one-way delay: 19.506 ms

Loss rate: 0.02%

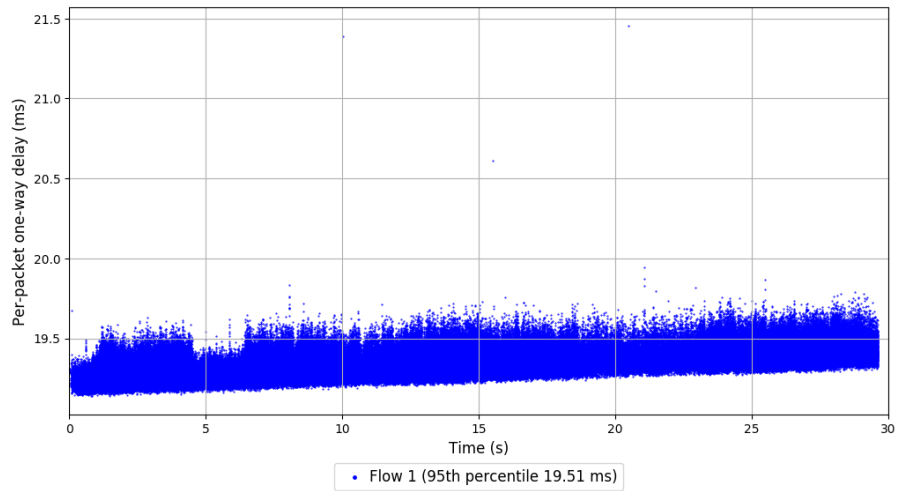
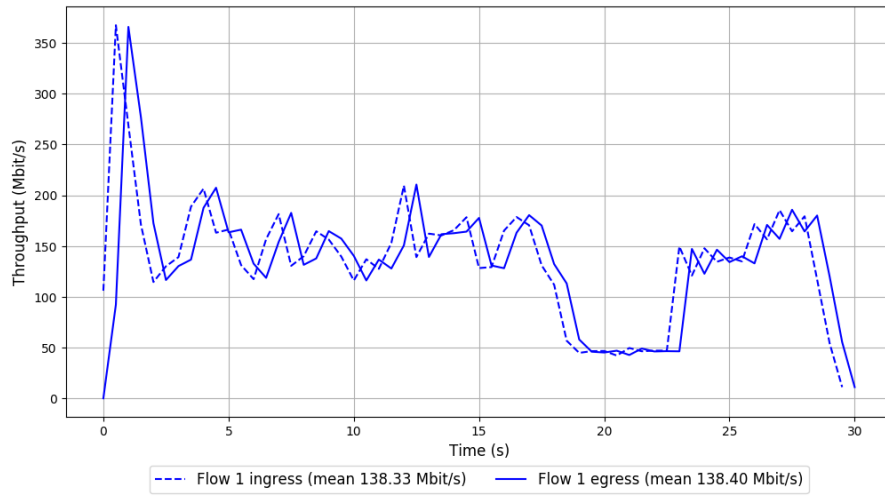
-- Flow 1:

Average throughput: 138.40 Mbit/s

95th percentile per-packet one-way delay: 19.506 ms

Loss rate: 0.02%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 13:13:34

End at: 2019-11-24 13:14:04

Local clock offset: 2.997 ms

Remote clock offset: 4.618 ms

# Below is generated by plot.py at 2019-11-24 15:23:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 280.43 Mbit/s

95th percentile per-packet one-way delay: 18.321 ms

Loss rate: 0.06%

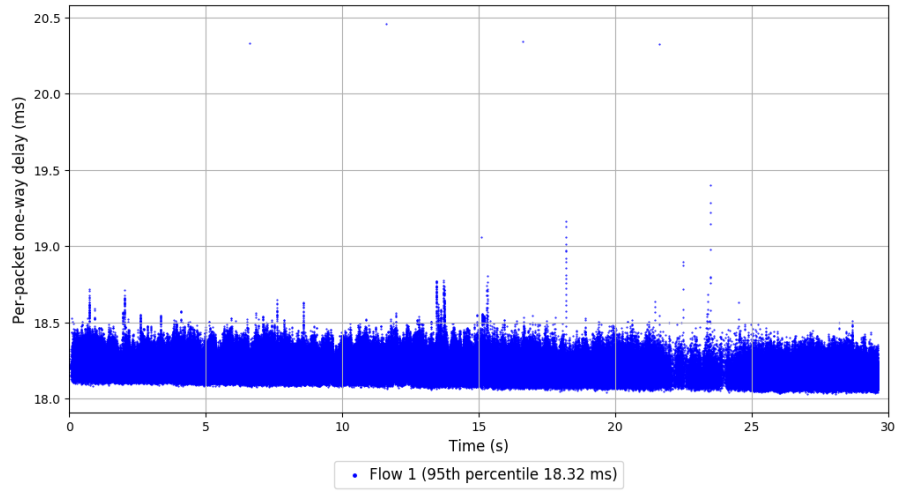
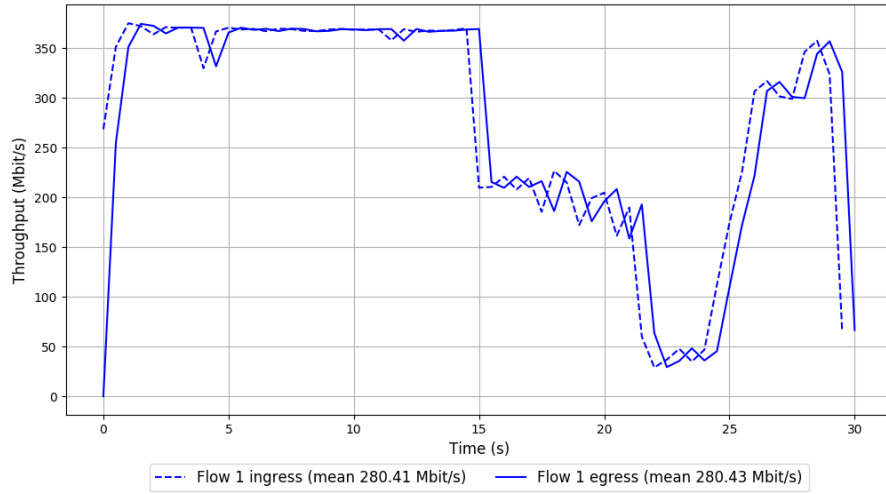
-- Flow 1:

Average throughput: 280.43 Mbit/s

95th percentile per-packet one-way delay: 18.321 ms

Loss rate: 0.06%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link

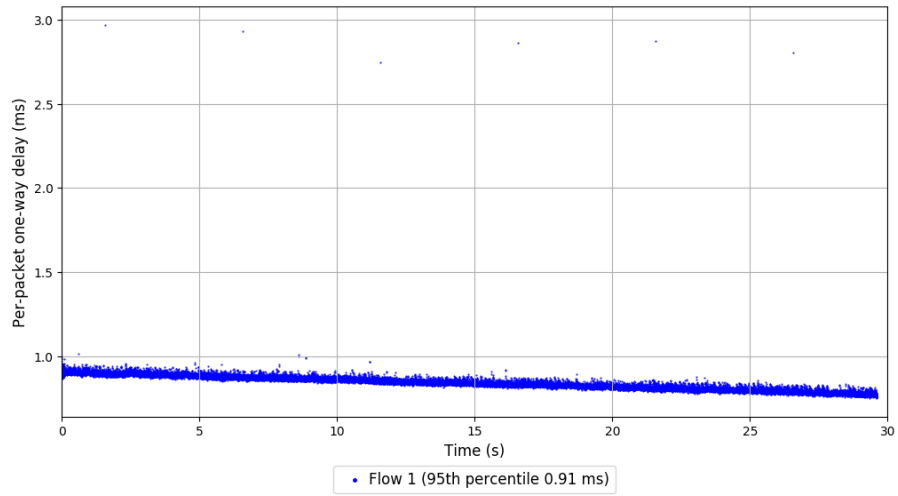
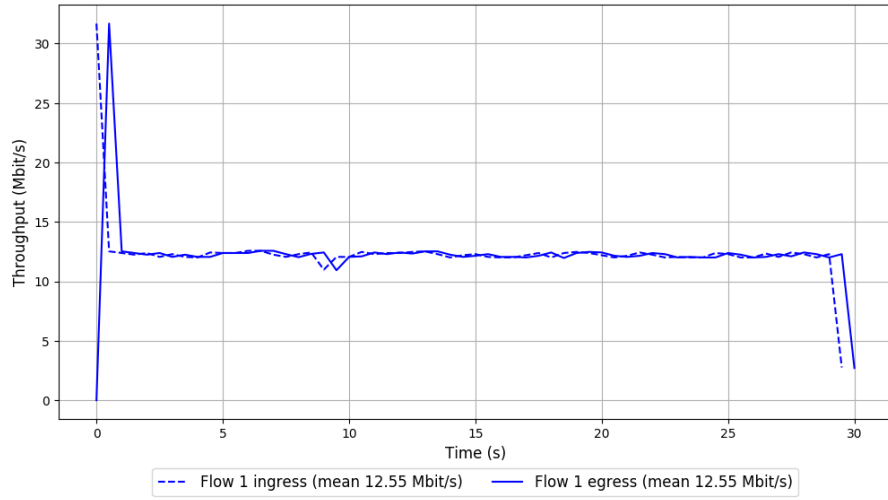


Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 13:47:16  
End at: 2019-11-24 13:47:46  
Local clock offset: 3.622 ms  
Remote clock offset: -1.366 ms

# Below is generated by plot.py at 2019-11-24 15:23:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.55 Mbit/s  
95th percentile per-packet one-way delay: 0.908 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 12.55 Mbit/s  
95th percentile per-packet one-way delay: 0.908 ms  
Loss rate: 0.01%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link

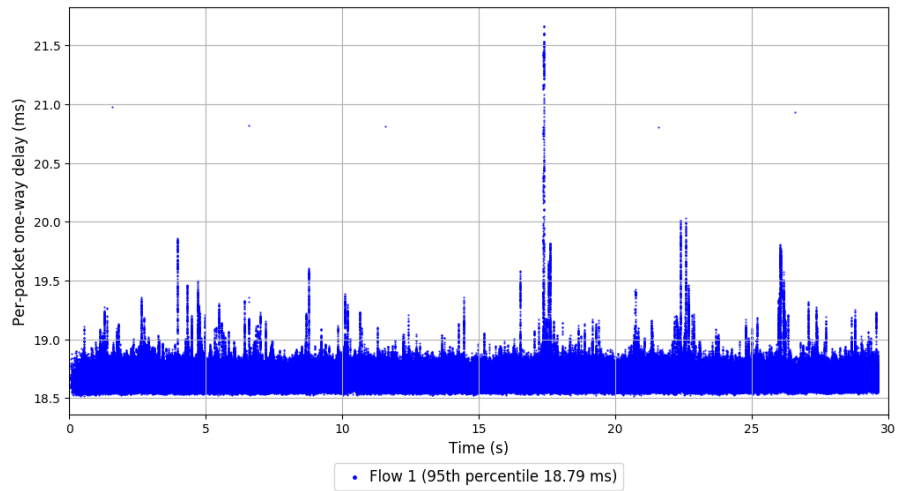
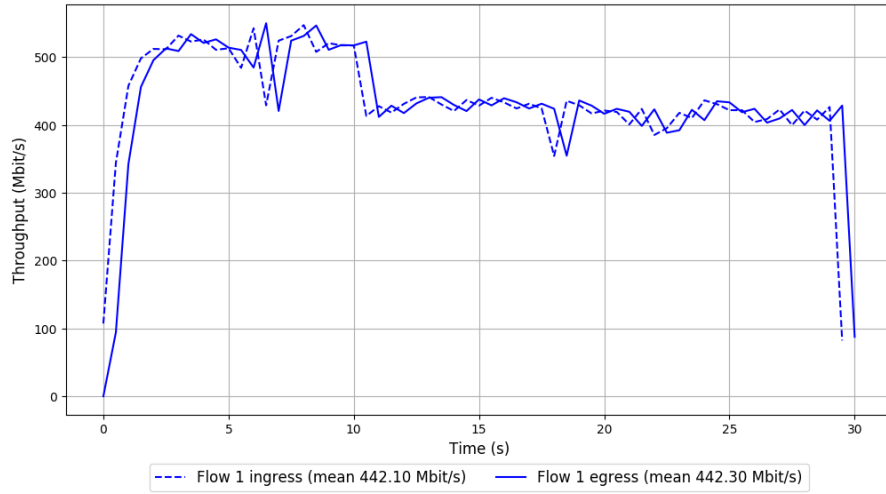


Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 14:21:23  
End at: 2019-11-24 14:21:53  
Local clock offset: 3.548 ms  
Remote clock offset: -3.616 ms

# Below is generated by plot.py at 2019-11-24 15:24:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 442.30 Mbit/s  
95th percentile per-packet one-way delay: 18.791 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 442.30 Mbit/s  
95th percentile per-packet one-way delay: 18.791 ms  
Loss rate: 0.04%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link





Run 1: Statistics of PCC-Allegro

Start at: 2019-11-24 11:55:41

End at: 2019-11-24 11:56:11

Local clock offset: 3.825 ms

Remote clock offset: -3.718 ms

# Below is generated by plot.py at 2019-11-24 15:29:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 772.39 Mbit/s

95th percentile per-packet one-way delay: 1.655 ms

Loss rate: 0.01%

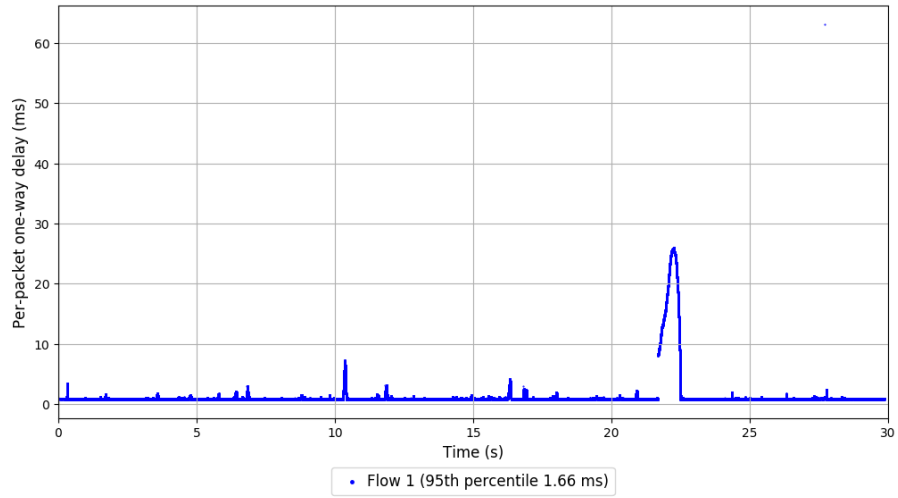
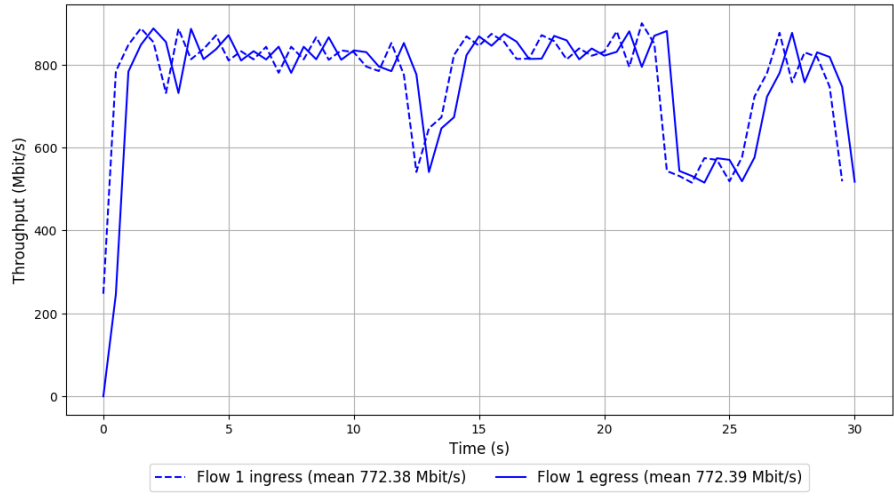
-- Flow 1:

Average throughput: 772.39 Mbit/s

95th percentile per-packet one-way delay: 1.655 ms

Loss rate: 0.01%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-11-24 12:29:19

End at: 2019-11-24 12:29:50

Local clock offset: 3.258 ms

Remote clock offset: -1.773 ms

# Below is generated by plot.py at 2019-11-24 15:31:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 918.82 Mbit/s

95th percentile per-packet one-way delay: 58.753 ms

Loss rate: 0.08%

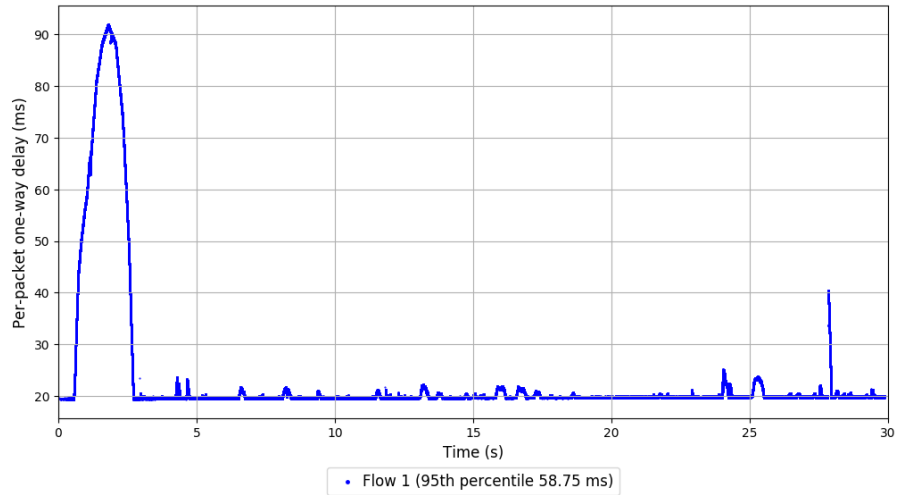
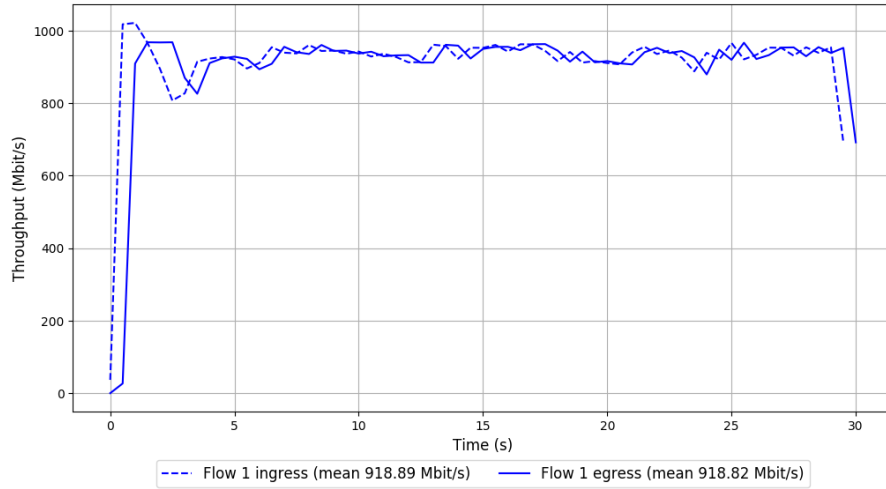
-- Flow 1:

Average throughput: 918.82 Mbit/s

95th percentile per-packet one-way delay: 58.753 ms

Loss rate: 0.08%

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



Run 3: Statistics of PCC-Allegro

Start at: 2019-11-24 13:03:19

End at: 2019-11-24 13:03:49

Local clock offset: 2.69 ms

Remote clock offset: 6.472 ms

# Below is generated by plot.py at 2019-11-24 15:31:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 778.09 Mbit/s

95th percentile per-packet one-way delay: 5.349 ms

Loss rate: 0.01%

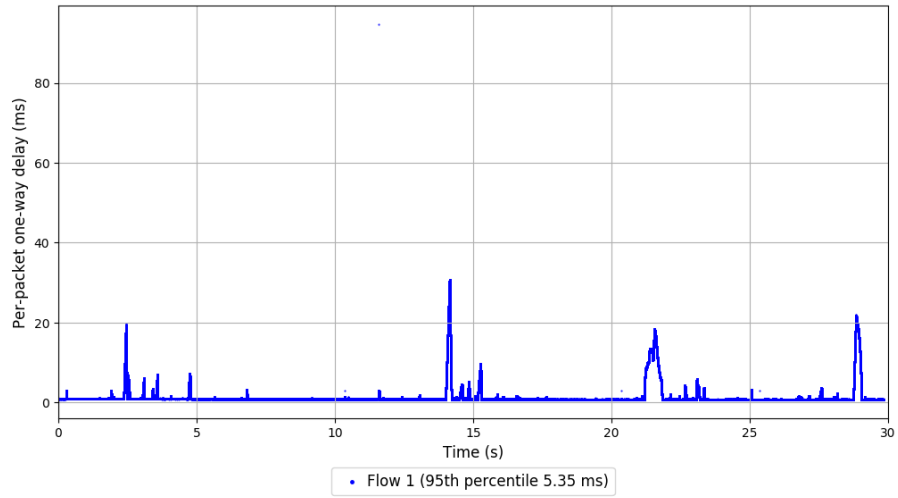
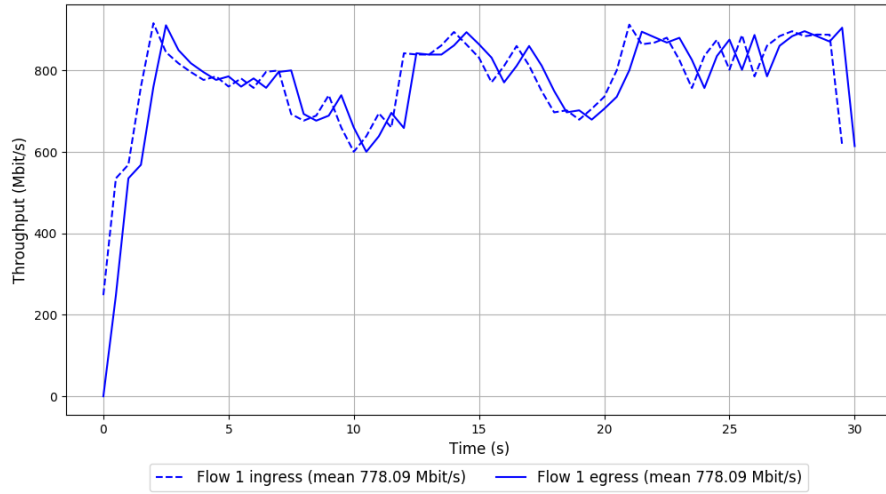
-- Flow 1:

Average throughput: 778.09 Mbit/s

95th percentile per-packet one-way delay: 5.349 ms

Loss rate: 0.01%

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



Run 4: Statistics of PCC-Allegro

Start at: 2019-11-24 13:37:04

End at: 2019-11-24 13:37:34

Local clock offset: 3.695 ms

Remote clock offset: 3.98 ms

# Below is generated by plot.py at 2019-11-24 15:31:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 682.46 Mbit/s

95th percentile per-packet one-way delay: 14.101 ms

Loss rate: 0.00%

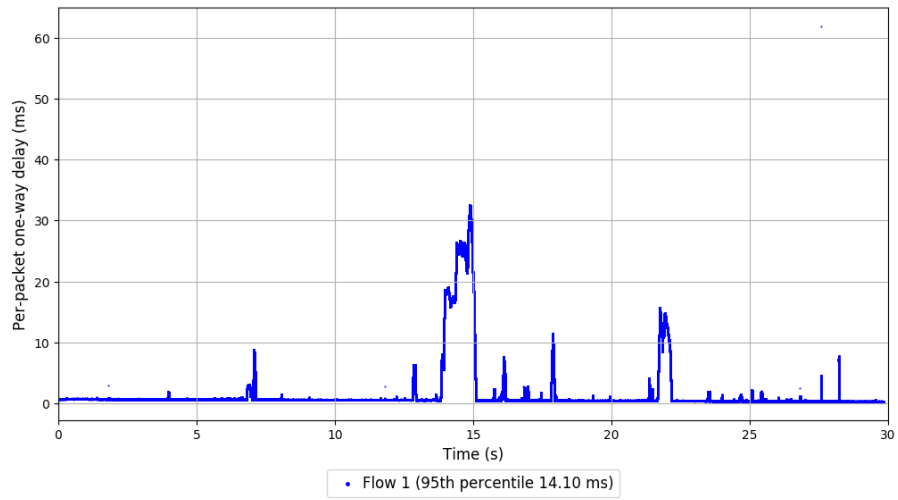
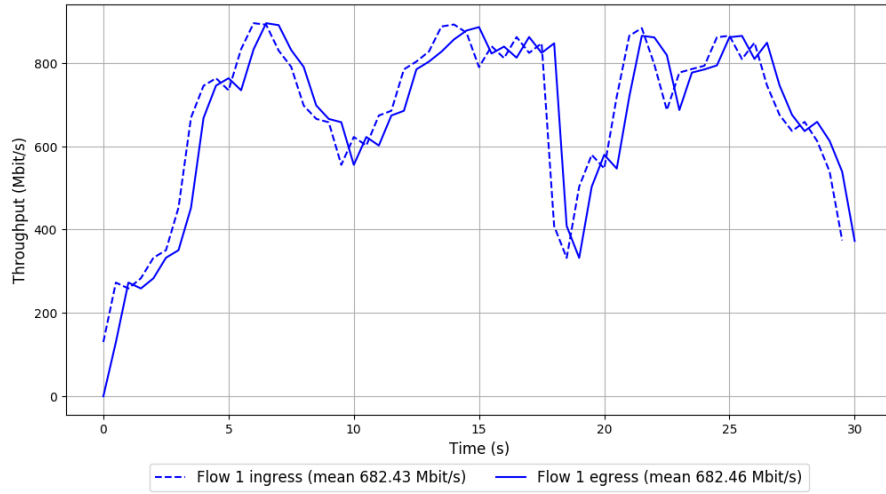
-- Flow 1:

Average throughput: 682.46 Mbit/s

95th percentile per-packet one-way delay: 14.101 ms

Loss rate: 0.00%

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





Run 5: Statistics of PCC-Allegro

Start at: 2019-11-24 14:11:07

End at: 2019-11-24 14:11:37

Local clock offset: 3.588 ms

Remote clock offset: -4.19 ms

# Below is generated by plot.py at 2019-11-24 15:33:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 909.38 Mbit/s

95th percentile per-packet one-way delay: 25.732 ms

Loss rate: 0.07%

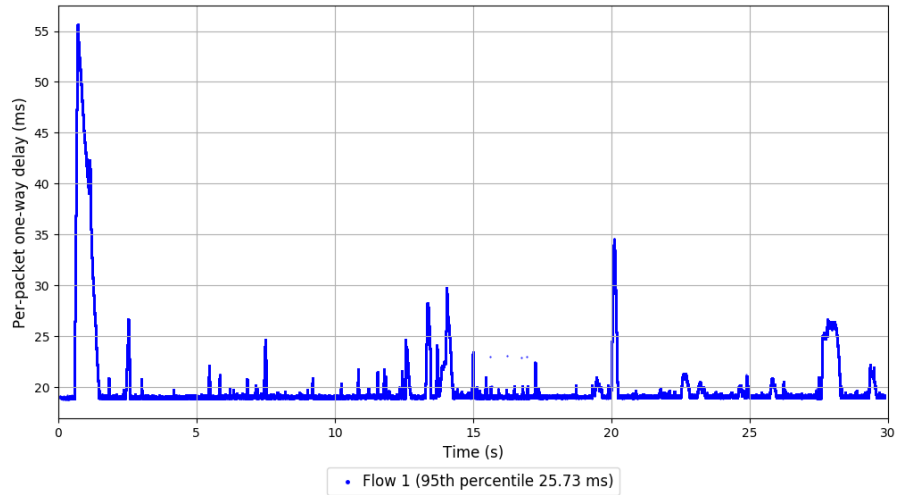
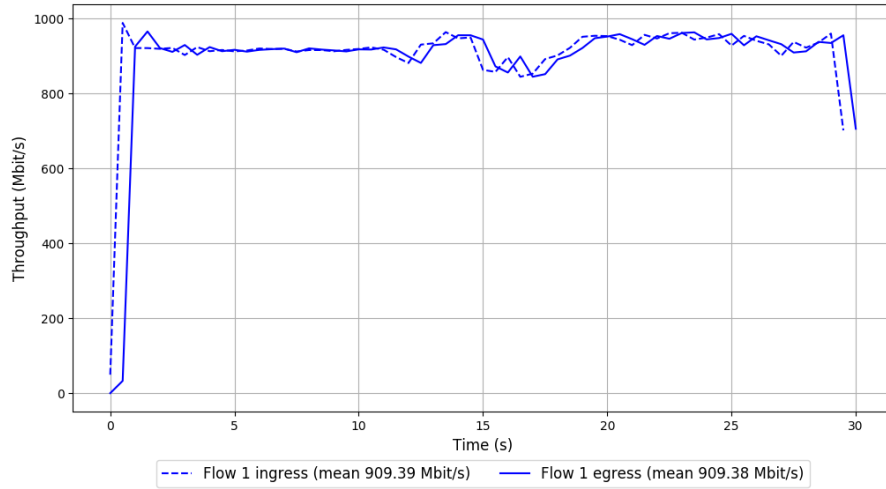
-- Flow 1:

Average throughput: 909.38 Mbit/s

95th percentile per-packet one-way delay: 25.732 ms

Loss rate: 0.07%

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



Run 1: Statistics of PCC-Expr

Start at: 2019-11-24 11:58:37

End at: 2019-11-24 11:59:07

Local clock offset: 3.906 ms

Remote clock offset: -3.569 ms

# Below is generated by plot.py at 2019-11-24 15:33:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 355.95 Mbit/s

95th percentile per-packet one-way delay: 18.851 ms

Loss rate: 0.06%

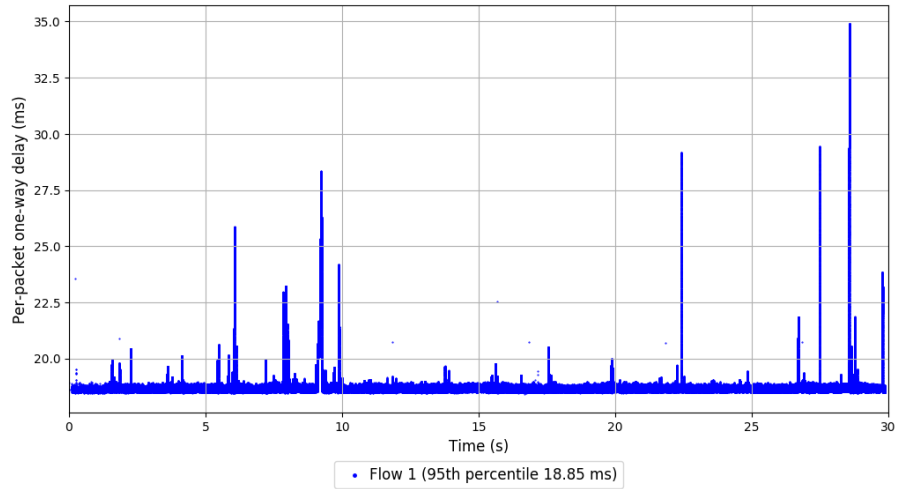
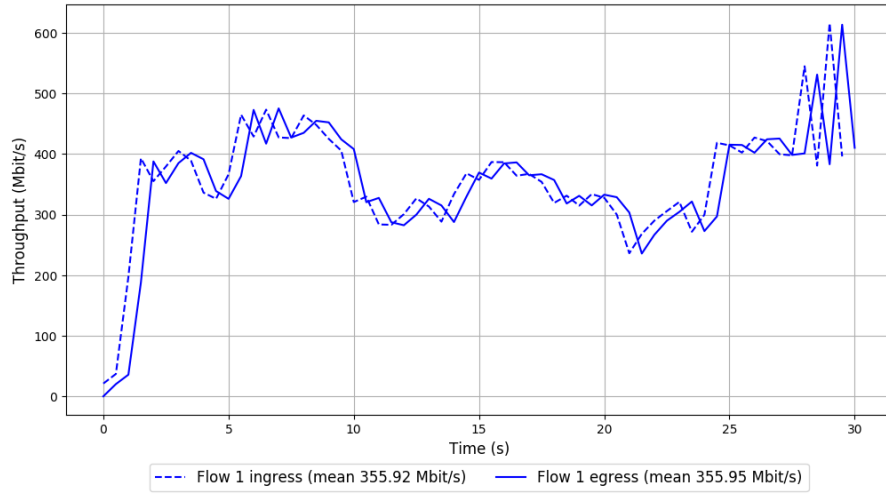
-- Flow 1:

Average throughput: 355.95 Mbit/s

95th percentile per-packet one-way delay: 18.851 ms

Loss rate: 0.06%

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



Run 2: Statistics of PCC-Expr

Start at: 2019-11-24 12:32:20

End at: 2019-11-24 12:32:50

Local clock offset: 3.237 ms

Remote clock offset: 0.035 ms

# Below is generated by plot.py at 2019-11-24 15:33:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 371.91 Mbit/s

95th percentile per-packet one-way delay: 1.289 ms

Loss rate: 0.01%

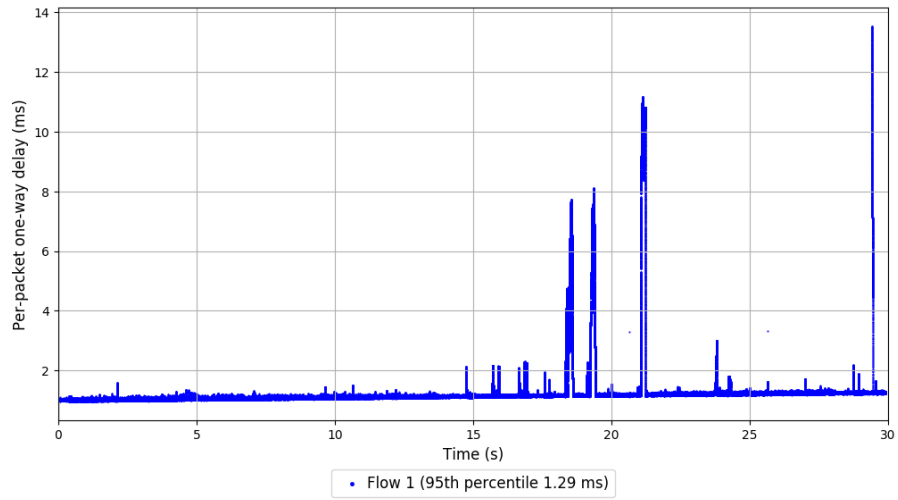
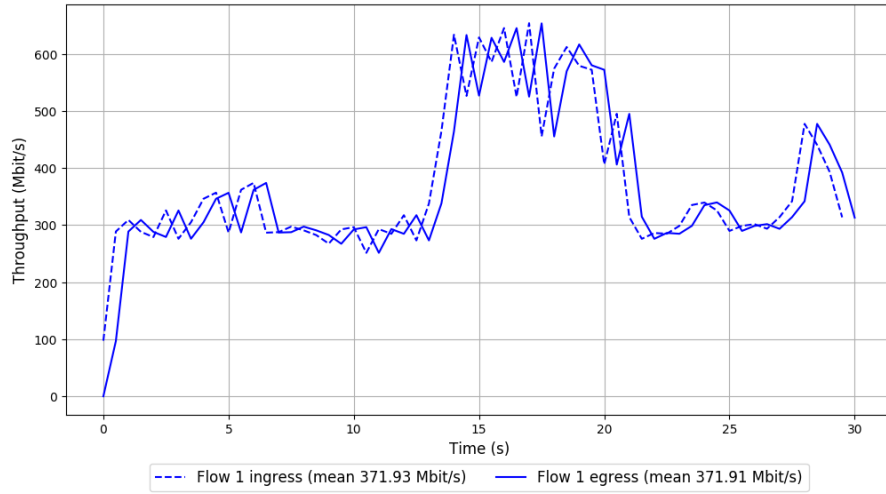
-- Flow 1:

Average throughput: 371.91 Mbit/s

95th percentile per-packet one-way delay: 1.289 ms

Loss rate: 0.01%

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



Run 3: Statistics of PCC-Expr

Start at: 2019-11-24 13:06:15

End at: 2019-11-24 13:06:45

Local clock offset: 2.684 ms

Remote clock offset: 5.697 ms

# Below is generated by plot.py at 2019-11-24 15:34:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 454.64 Mbit/s

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

Loss rate: 0.00%

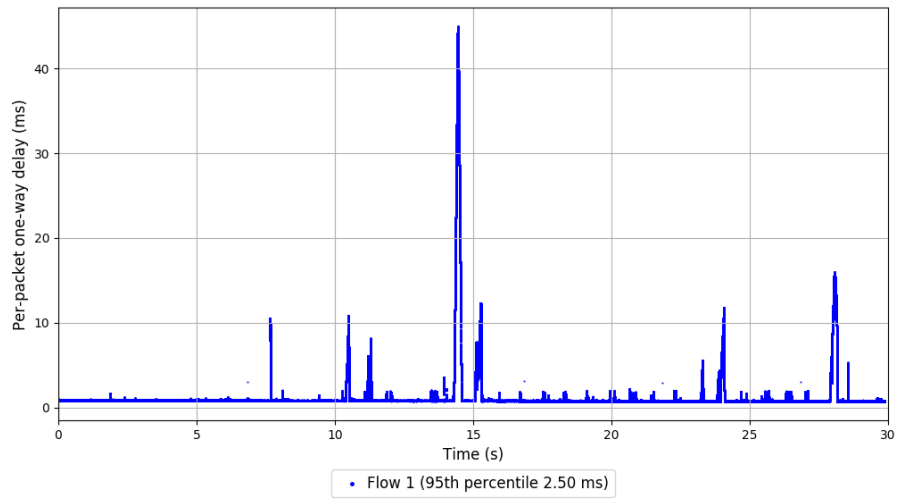
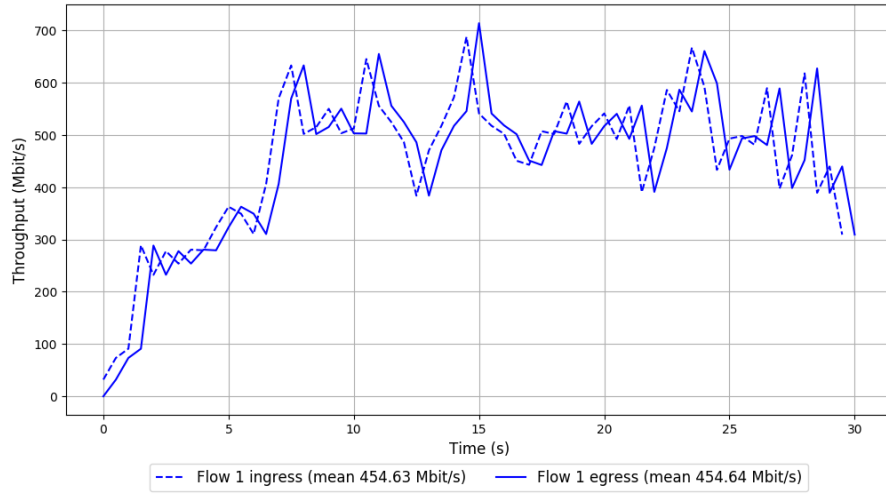
-- Flow 1:

Average throughput: 454.64 Mbit/s

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

Loss rate: 0.00%

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





Run 4: Statistics of PCC-Expr

Start at: 2019-11-24 13:39:57

End at: 2019-11-24 13:40:27

Local clock offset: 3.702 ms

Remote clock offset: 1.85 ms

# Below is generated by plot.py at 2019-11-24 15:38:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 426.75 Mbit/s

95th percentile per-packet one-way delay: 18.900 ms

Loss rate: 0.10%

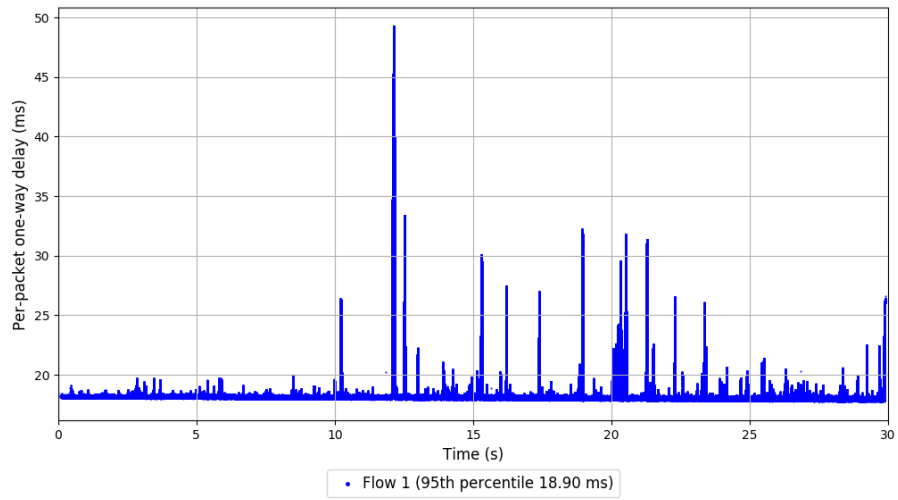
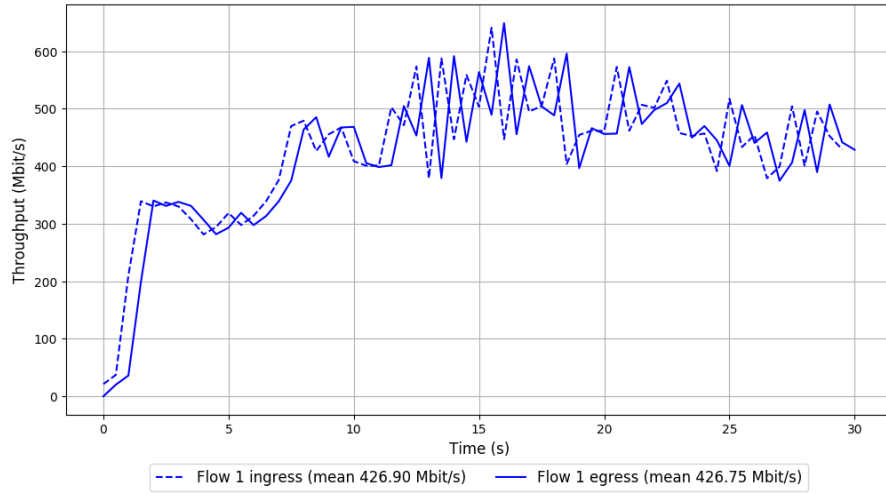
-- Flow 1:

Average throughput: 426.75 Mbit/s

95th percentile per-packet one-way delay: 18.900 ms

Loss rate: 0.10%

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



Run 5: Statistics of PCC-Expr

Start at: 2019-11-24 14:14:07

End at: 2019-11-24 14:14:37

Local clock offset: 3.574 ms

Remote clock offset: -3.902 ms

# Below is generated by plot.py at 2019-11-24 15:39:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 415.75 Mbit/s

95th percentile per-packet one-way delay: 20.548 ms

Loss rate: 0.08%

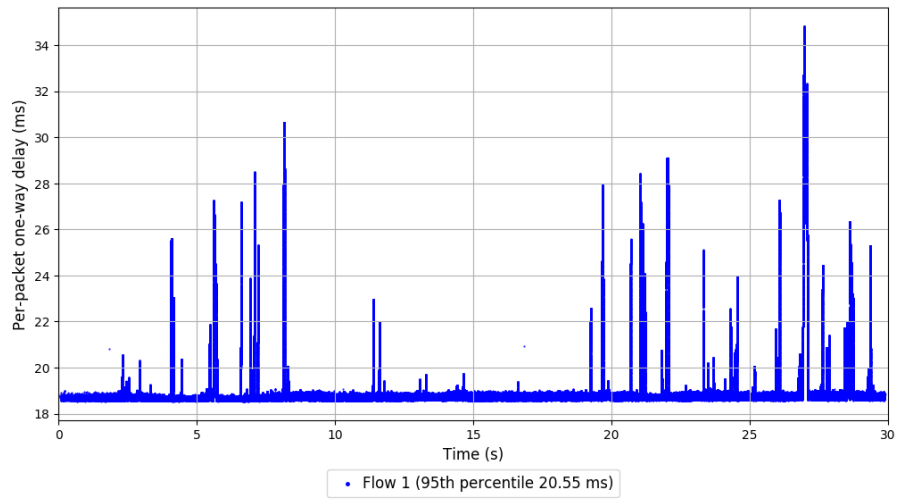
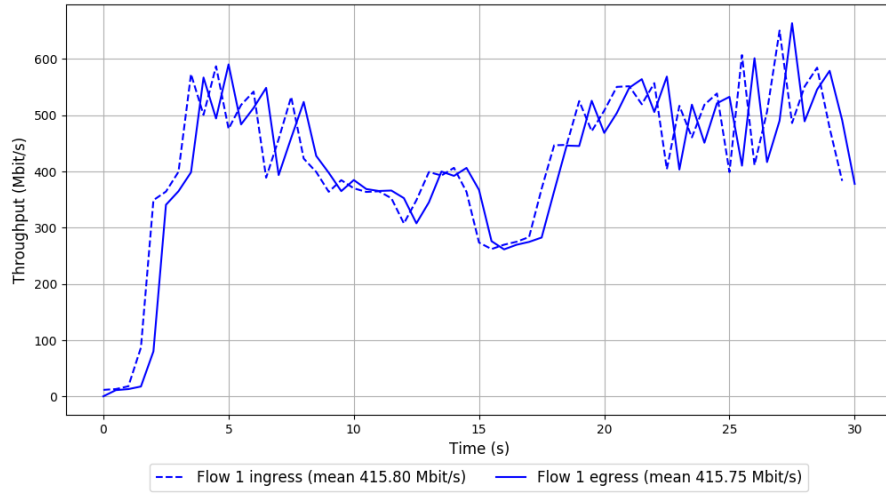
-- Flow 1:

Average throughput: 415.75 Mbit/s

95th percentile per-packet one-way delay: 20.548 ms

Loss rate: 0.08%

Run 5: Report of PCC-Expr — Data Link

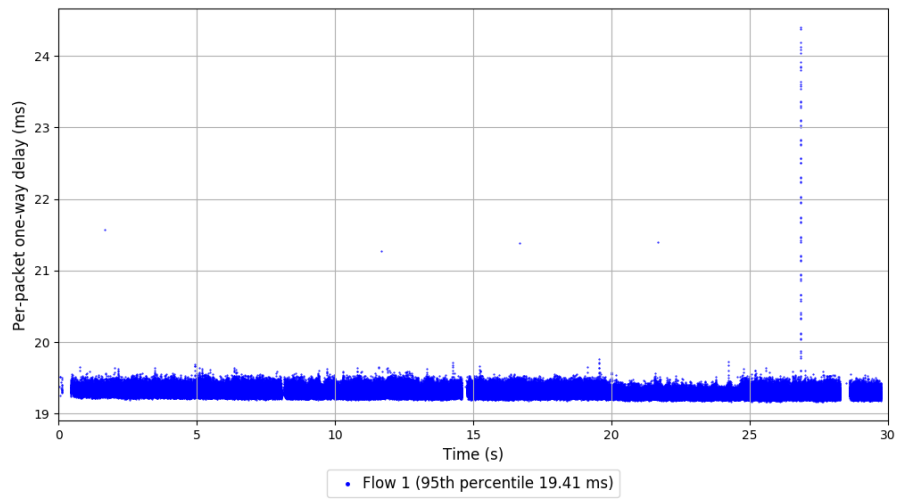
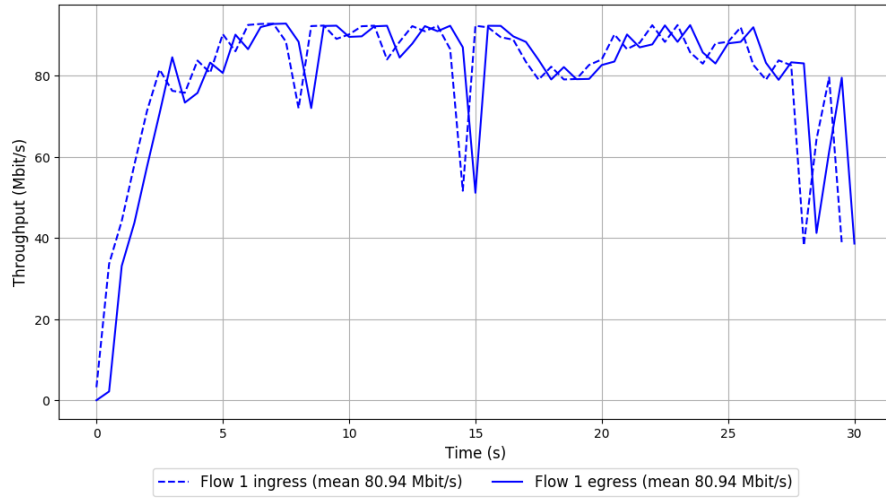


Run 1: Statistics of QUIC Cubic

Start at: 2019-11-24 11:47:19  
End at: 2019-11-24 11:47:49  
Local clock offset: 3.488 ms  
Remote clock offset: -3.832 ms

# Below is generated by plot.py at 2019-11-24 15:39:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.94 Mbit/s  
95th percentile per-packet one-way delay: 19.410 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 80.94 Mbit/s  
95th percentile per-packet one-way delay: 19.410 ms  
Loss rate: 0.07%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-11-24 12:21:05

End at: 2019-11-24 12:21:35

Local clock offset: 3.422 ms

Remote clock offset: -3.218 ms

# Below is generated by plot.py at 2019-11-24 15:39:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.00 Mbit/s

95th percentile per-packet one-way delay: 1.021 ms

Loss rate: 0.01%

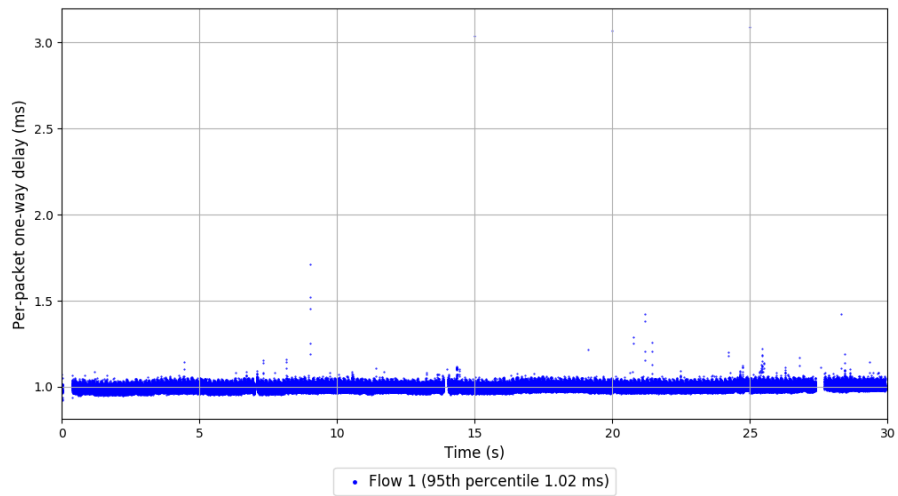
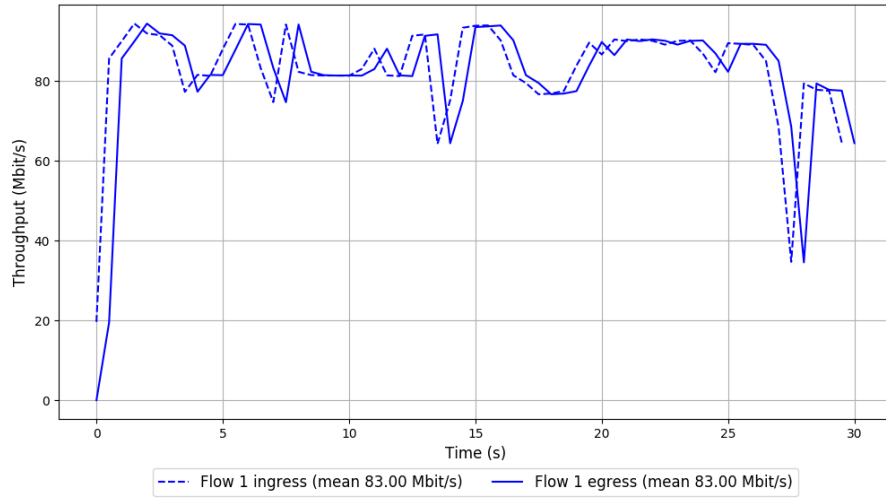
-- Flow 1:

Average throughput: 83.00 Mbit/s

95th percentile per-packet one-way delay: 1.021 ms

Loss rate: 0.01%

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





Run 3: Statistics of QUIC Cubic

Start at: 2019-11-24 12:54:57

End at: 2019-11-24 12:55:27

Local clock offset: 2.792 ms

Remote clock offset: 6.283 ms

# Below is generated by plot.py at 2019-11-24 15:39:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.07 Mbit/s

95th percentile per-packet one-way delay: 18.817 ms

Loss rate: 0.08%

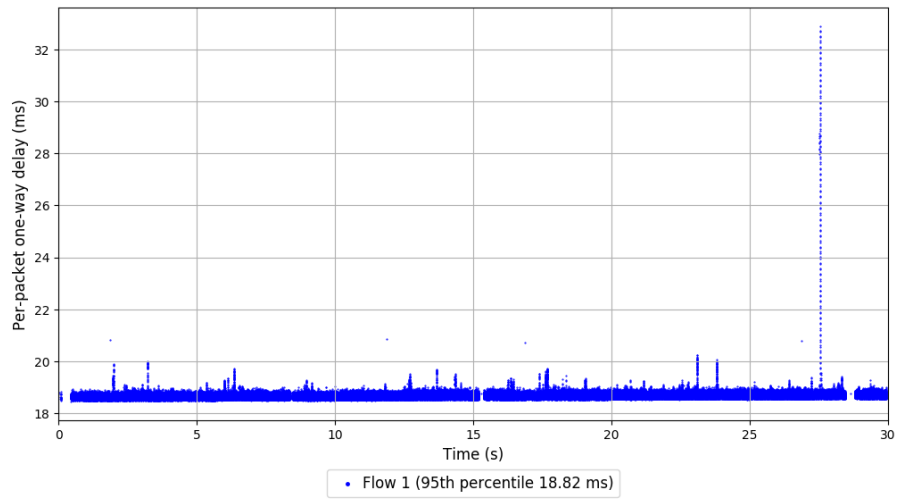
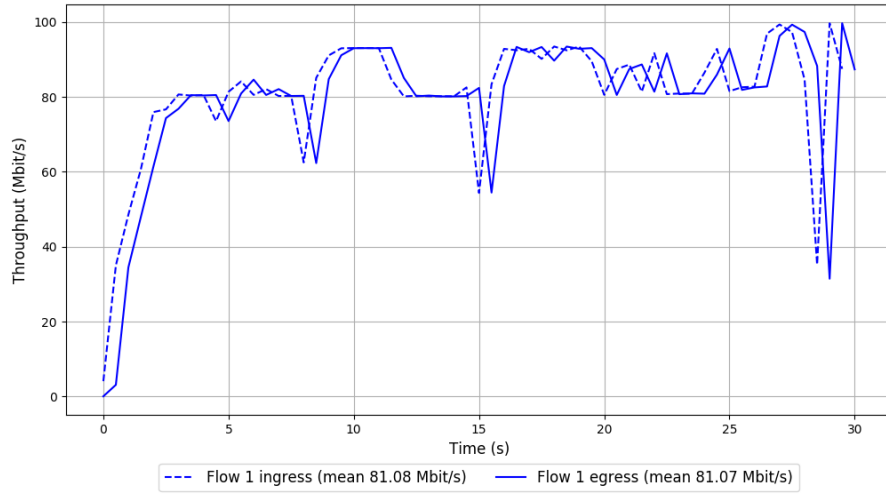
-- Flow 1:

Average throughput: 81.07 Mbit/s

95th percentile per-packet one-way delay: 18.817 ms

Loss rate: 0.08%

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



Run 4: Statistics of QUIC Cubic

Start at: 2019-11-24 13:28:55

End at: 2019-11-24 13:29:26

Local clock offset: 3.578 ms

Remote clock offset: 4.847 ms

# Below is generated by plot.py at 2019-11-24 15:39:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.64 Mbit/s

95th percentile per-packet one-way delay: 19.262 ms

Loss rate: 0.07%

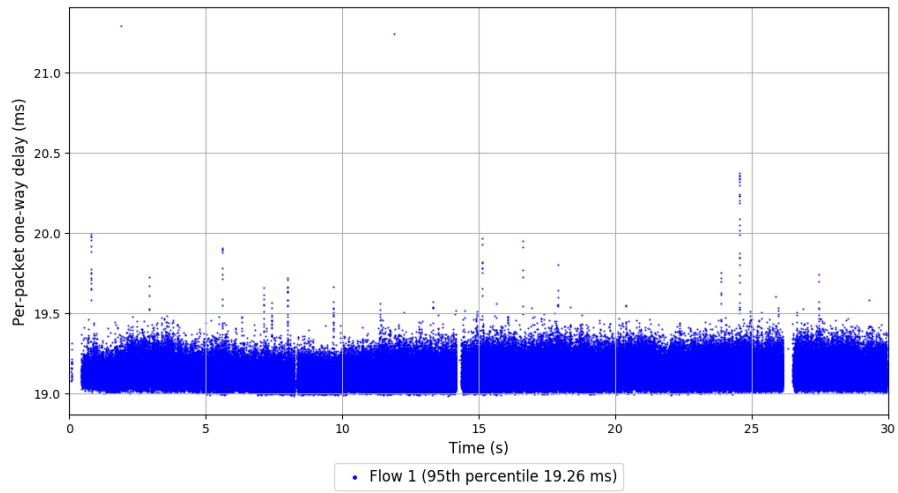
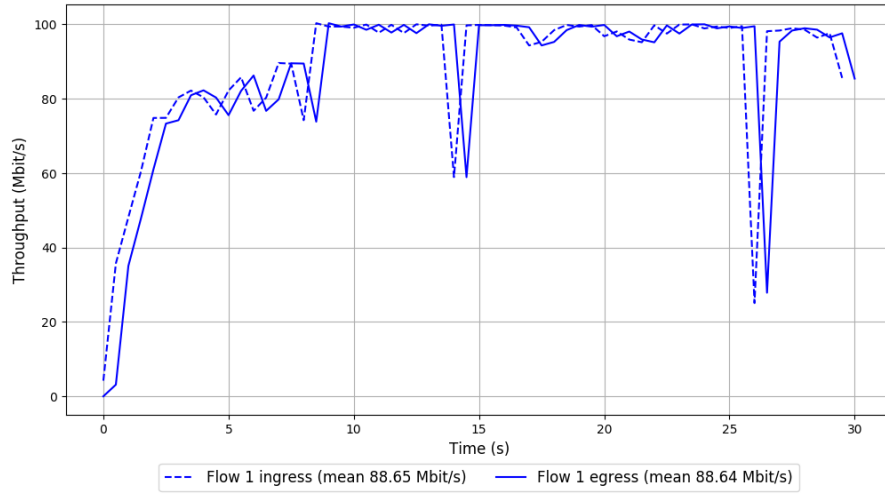
-- Flow 1:

Average throughput: 88.64 Mbit/s

95th percentile per-packet one-way delay: 19.262 ms

Loss rate: 0.07%

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



Run 5: Statistics of QUIC Cubic

Start at: 2019-11-24 14:02:52

End at: 2019-11-24 14:03:22

Local clock offset: 3.61 ms

Remote clock offset: -3.821 ms

# Below is generated by plot.py at 2019-11-24 15:39:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.27 Mbit/s

95th percentile per-packet one-way delay: 18.354 ms

Loss rate: 0.06%

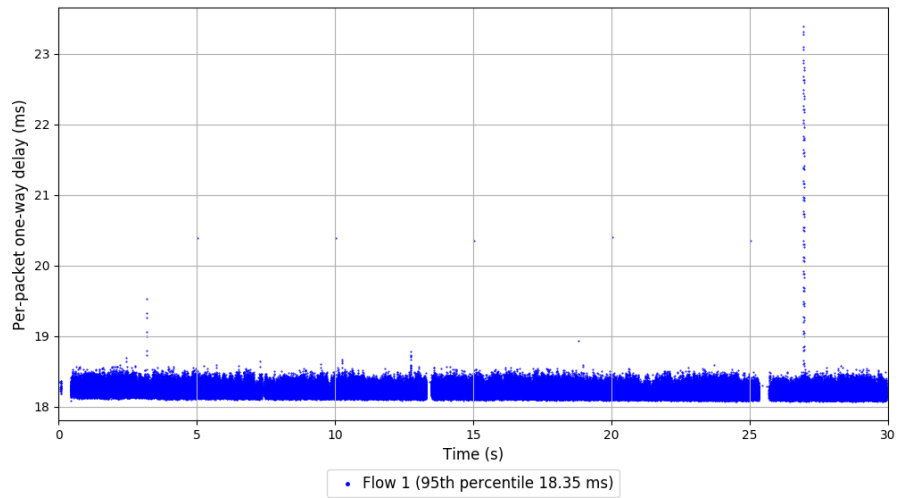
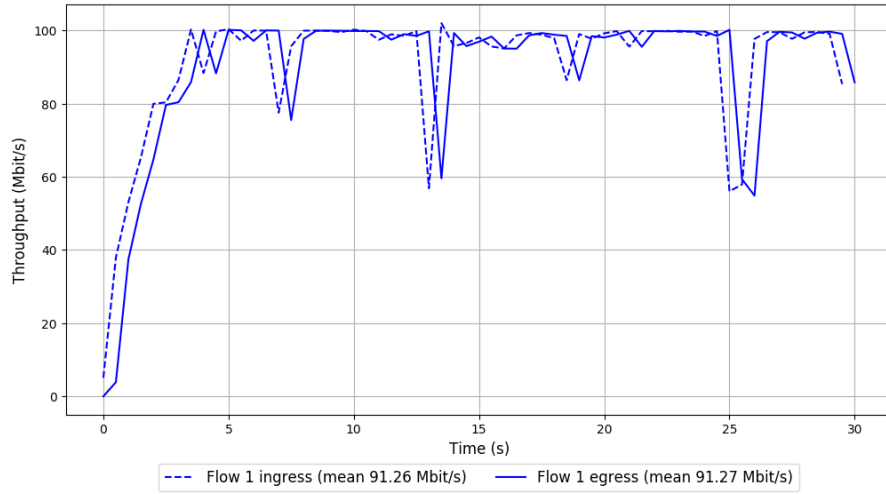
-- Flow 1:

Average throughput: 91.27 Mbit/s

95th percentile per-packet one-way delay: 18.354 ms

Loss rate: 0.06%

Run 5: Report of QUIC Cubic — Data Link

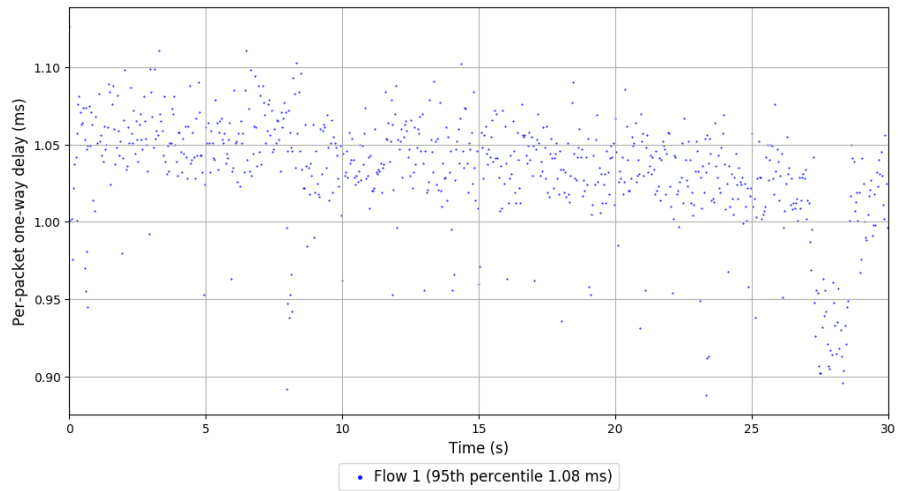
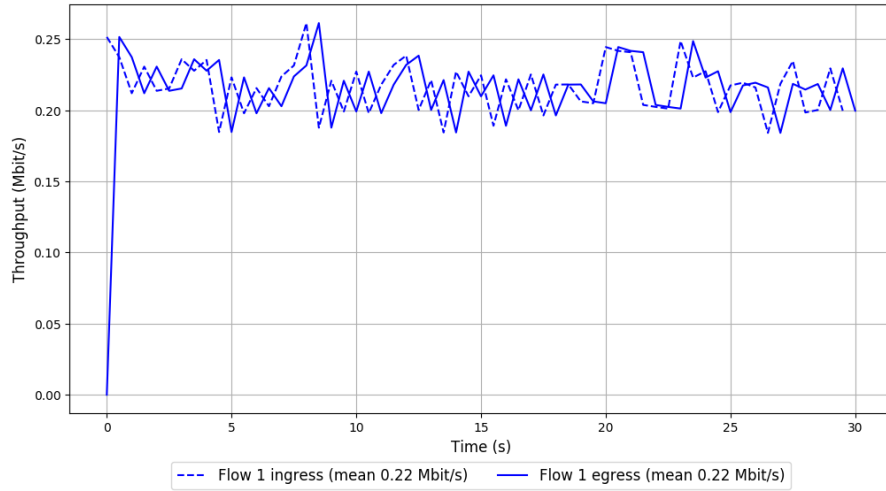


Run 1: Statistics of SCReAM

Start at: 2019-11-24 11:51:25  
End at: 2019-11-24 11:51:55  
Local clock offset: 3.698 ms  
Remote clock offset: -3.962 ms

# Below is generated by plot.py at 2019-11-24 15:39:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.079 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.079 ms  
Loss rate: 0.00%

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



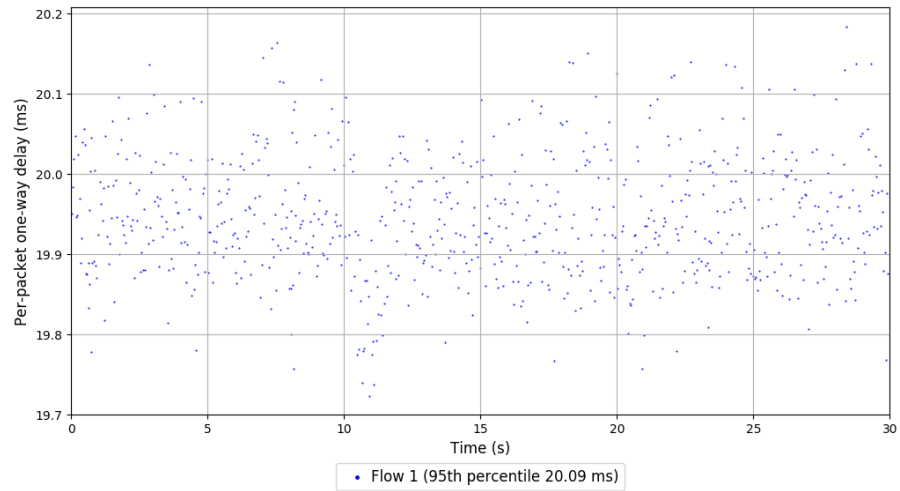
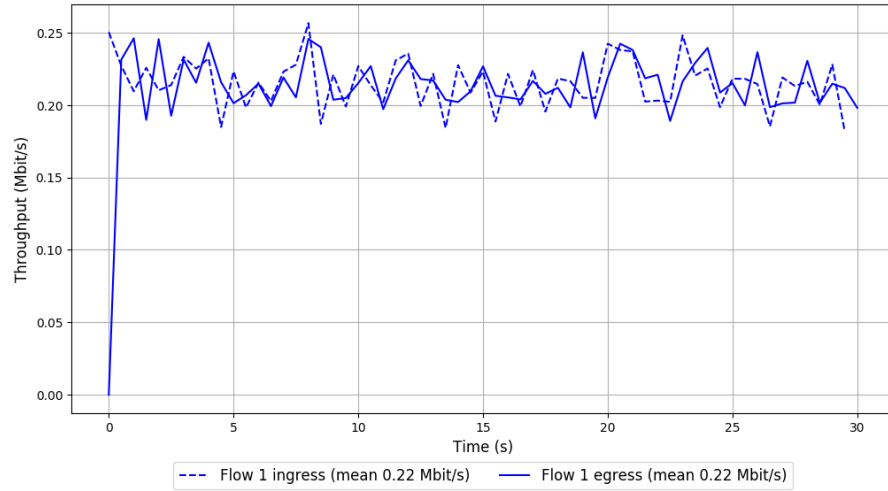


Run 2: Statistics of SCReAM

Start at: 2019-11-24 12:25:12  
End at: 2019-11-24 12:25:42  
Local clock offset: 3.344 ms  
Remote clock offset: -3.141 ms

# Below is generated by plot.py at 2019-11-24 15:39:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 20.085 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 20.085 ms  
Loss rate: 0.00%

## Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-11-24 12:59:03

End at: 2019-11-24 12:59:33

Local clock offset: 2.767 ms

Remote clock offset: 6.766 ms

# Below is generated by plot.py at 2019-11-24 15:39:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 20.208 ms

Loss rate: 0.13%

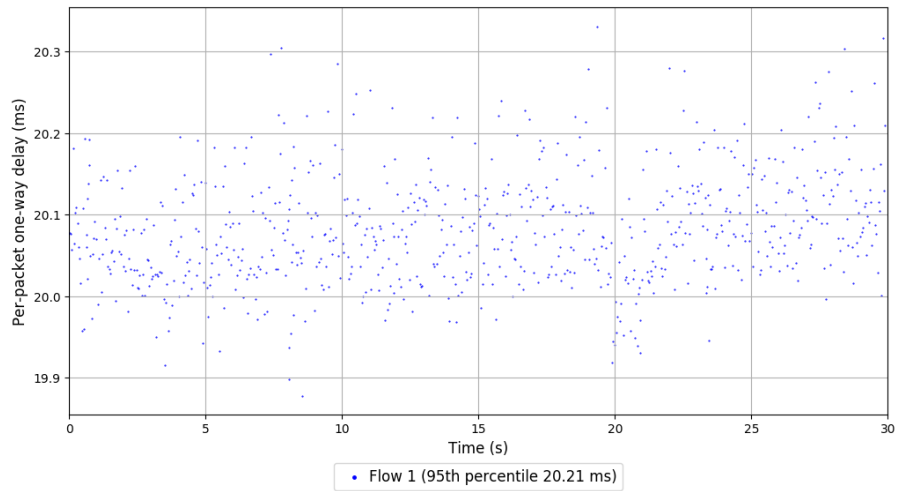
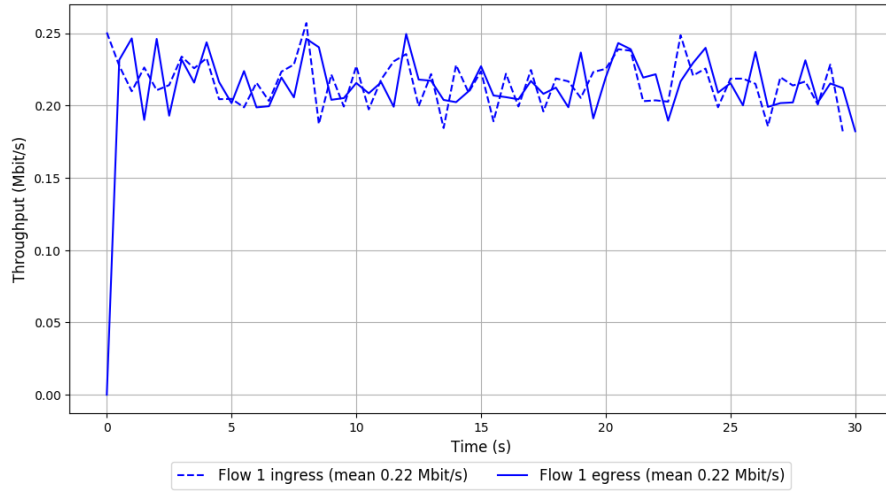
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 20.208 ms

Loss rate: 0.13%

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



Run 4: Statistics of SCReAM

Start at: 2019-11-24 13:33:02

End at: 2019-11-24 13:33:32

Local clock offset: 3.626 ms

Remote clock offset: 5.087 ms

# Below is generated by plot.py at 2019-11-24 15:39:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.009 ms

Loss rate: 0.00%

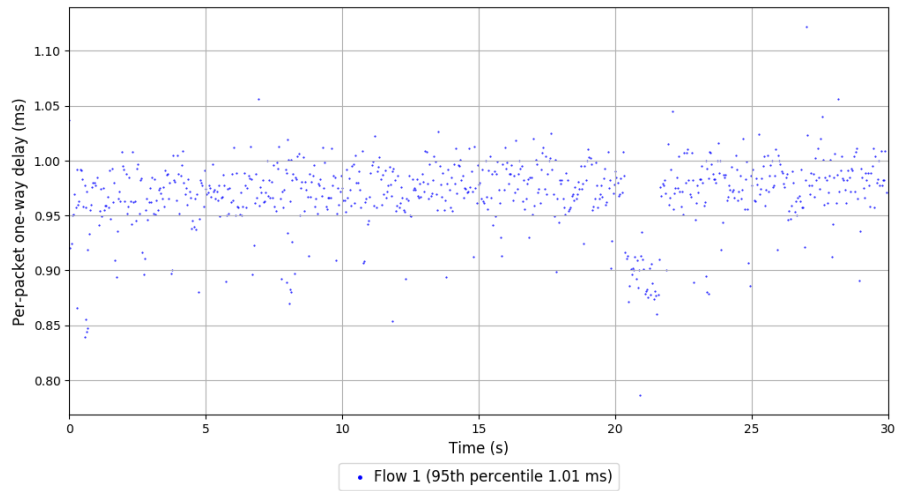
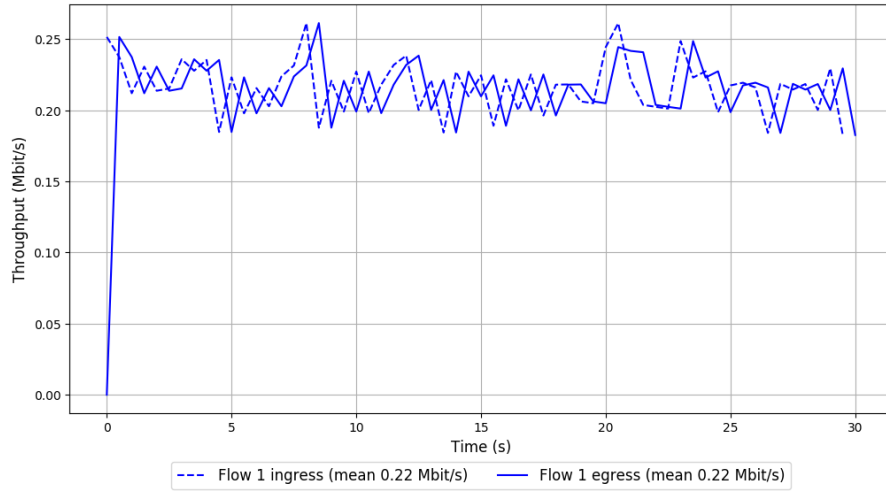
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.009 ms

Loss rate: 0.00%

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



Run 5: Statistics of SCReAM

Start at: 2019-11-24 14:06:59

End at: 2019-11-24 14:07:29

Local clock offset: 3.618 ms

Remote clock offset: -4.167 ms

# Below is generated by plot.py at 2019-11-24 15:39:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.360 ms

Loss rate: 0.13%

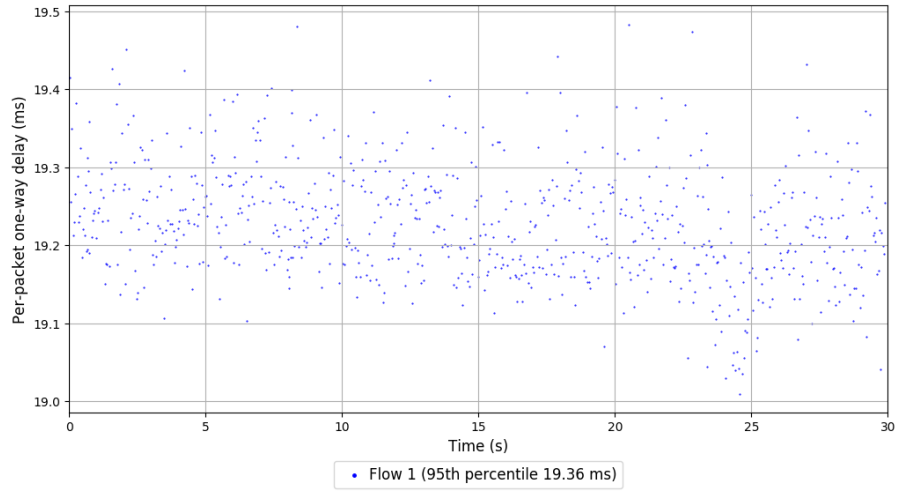
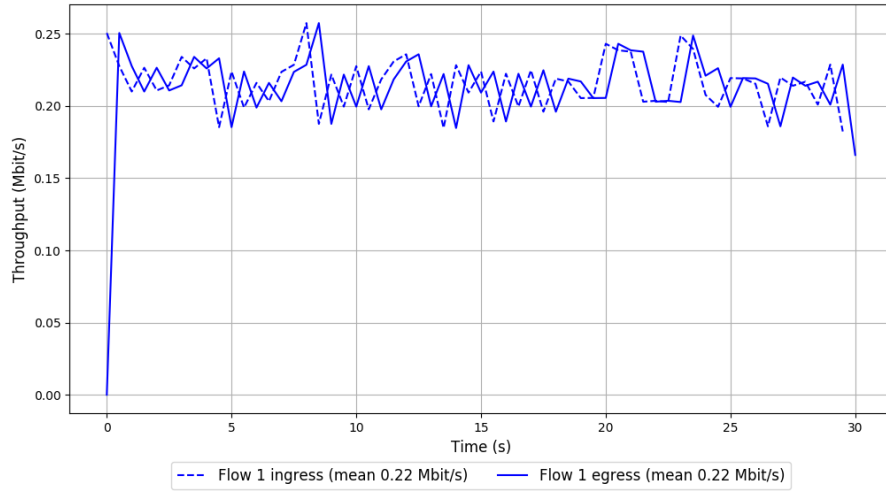
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.360 ms

Loss rate: 0.13%

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



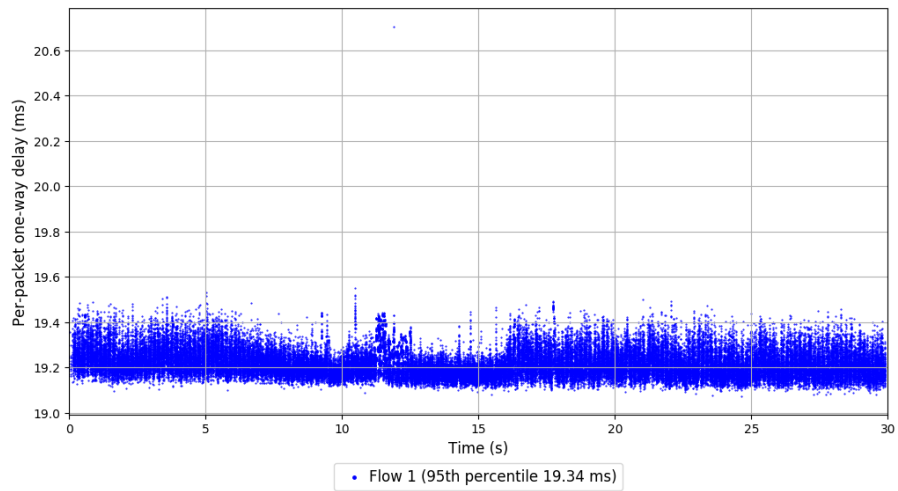
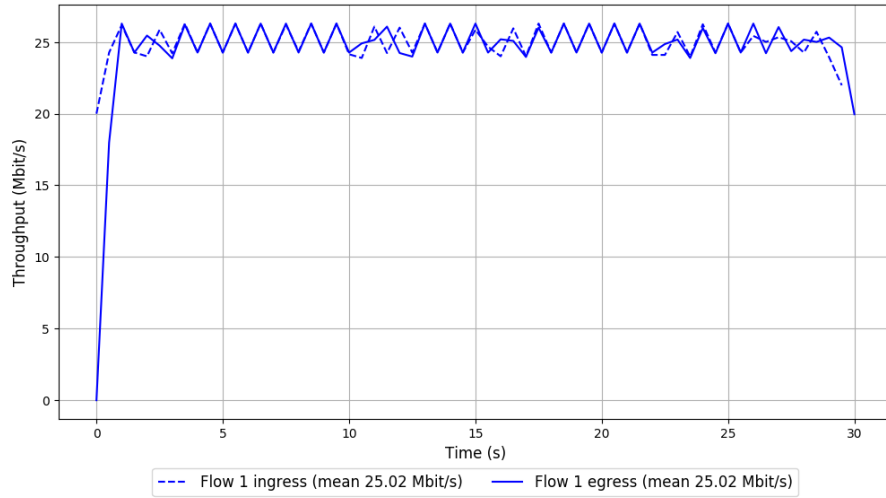


Run 1: Statistics of Sprout

Start at: 2019-11-24 11:50:11  
End at: 2019-11-24 11:50:41  
Local clock offset: 3.628 ms  
Remote clock offset: -3.806 ms

# Below is generated by plot.py at 2019-11-24 15:39:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 25.02 Mbit/s  
95th percentile per-packet one-way delay: 19.336 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 25.02 Mbit/s  
95th percentile per-packet one-way delay: 19.336 ms  
Loss rate: 0.14%

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



Run 2: Statistics of Sprout

Start at: 2019-11-24 12:23:58

End at: 2019-11-24 12:24:28

Local clock offset: 3.361 ms

Remote clock offset: -3.087 ms

# Below is generated by plot.py at 2019-11-24 15:39:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 24.36 Mbit/s

95th percentile per-packet one-way delay: 19.450 ms

Loss rate: 0.06%

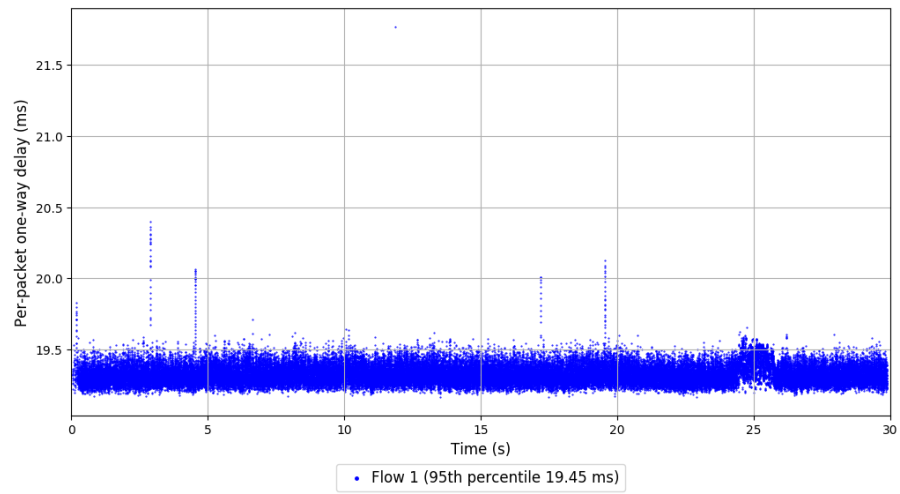
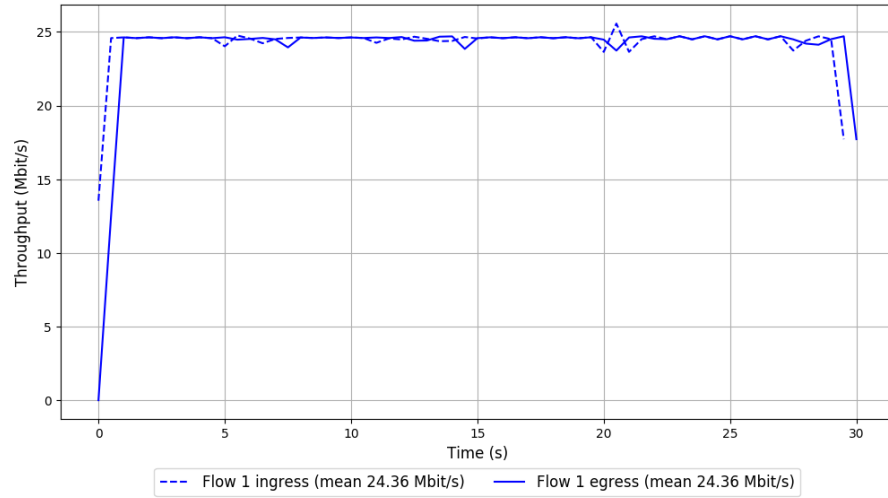
-- Flow 1:

Average throughput: 24.36 Mbit/s

95th percentile per-packet one-way delay: 19.450 ms

Loss rate: 0.06%

## Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-11-24 12:57:49

End at: 2019-11-24 12:58:19

Local clock offset: 2.77 ms

Remote clock offset: 6.684 ms

# Below is generated by plot.py at 2019-11-24 15:39:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 24.35 Mbit/s

95th percentile per-packet one-way delay: 19.528 ms

Loss rate: 0.07%

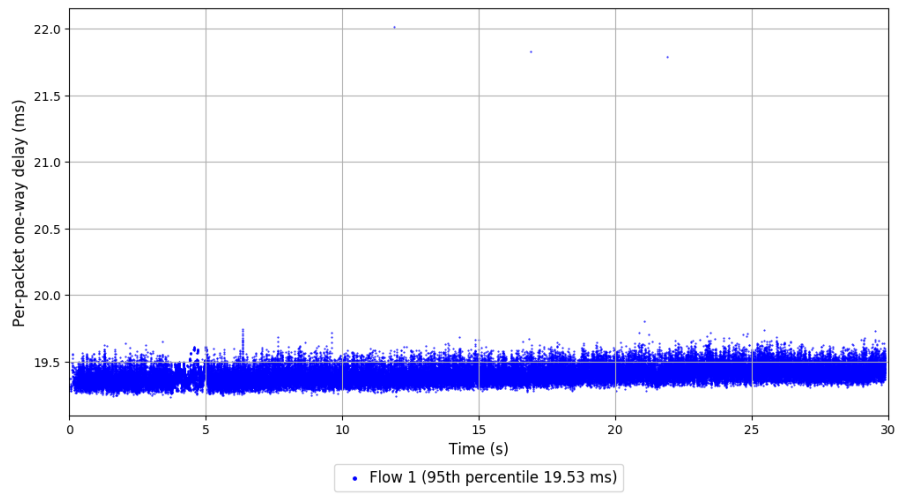
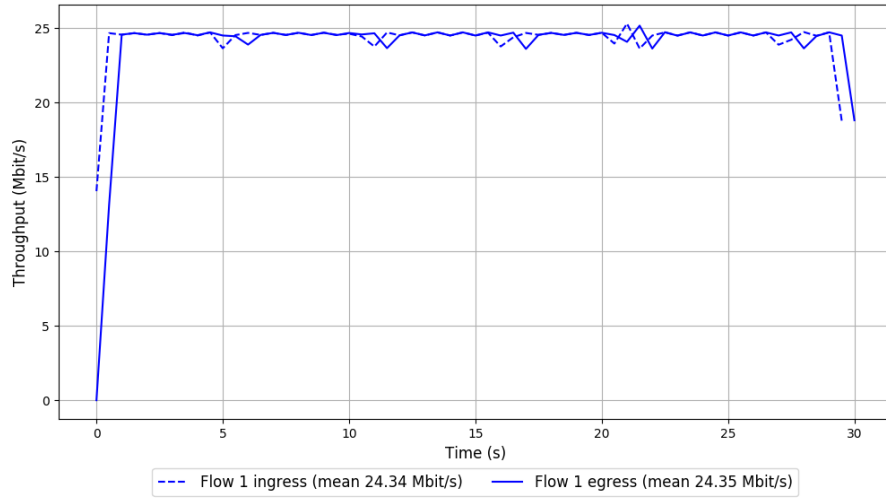
-- Flow 1:

Average throughput: 24.35 Mbit/s

95th percentile per-packet one-way delay: 19.528 ms

Loss rate: 0.07%

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



Run 4: Statistics of Sprout

Start at: 2019-11-24 13:31:47

End at: 2019-11-24 13:32:17

Local clock offset: 3.616 ms

Remote clock offset: 5.008 ms

# Below is generated by plot.py at 2019-11-24 15:39:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.22 Mbit/s

95th percentile per-packet one-way delay: 0.969 ms

Loss rate: 0.00%

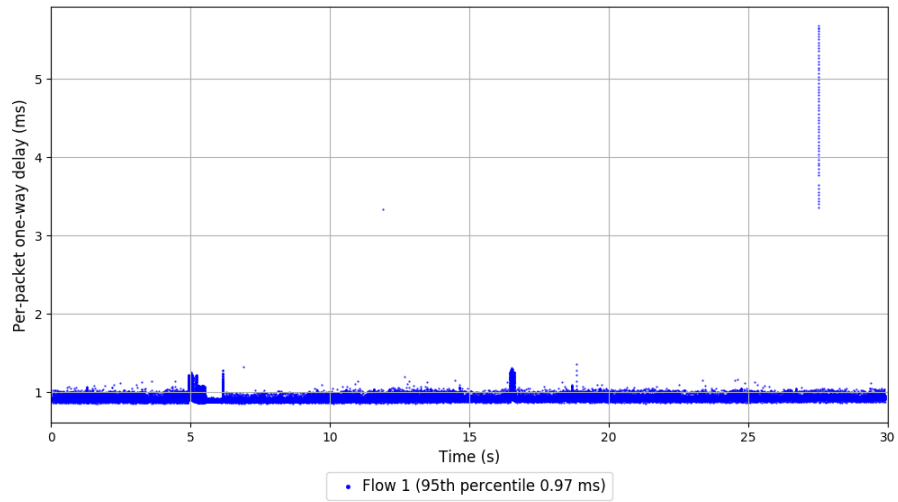
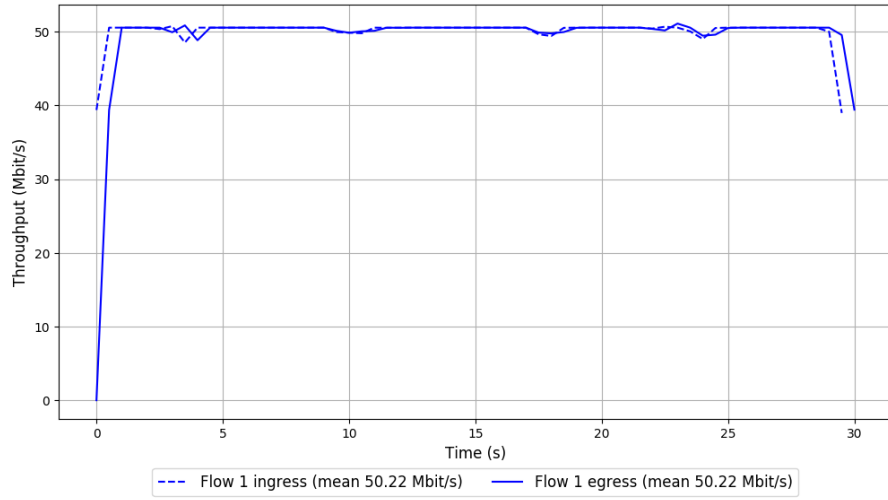
-- Flow 1:

Average throughput: 50.22 Mbit/s

95th percentile per-packet one-way delay: 0.969 ms

Loss rate: 0.00%

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





Run 5: Statistics of Sprout

Start at: 2019-11-24 14:05:45

End at: 2019-11-24 14:06:15

Local clock offset: 3.64 ms

Remote clock offset: -3.982 ms

# Below is generated by plot.py at 2019-11-24 15:39:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 24.37 Mbit/s

95th percentile per-packet one-way delay: 19.405 ms

Loss rate: 0.07%

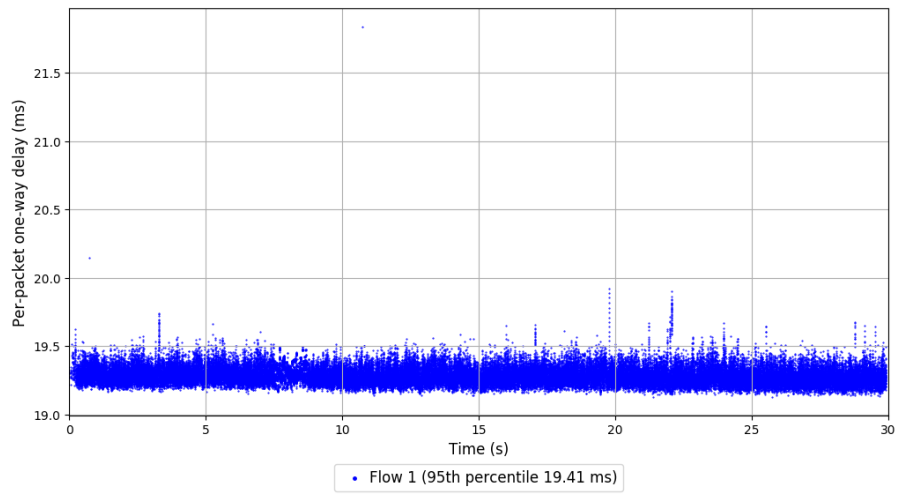
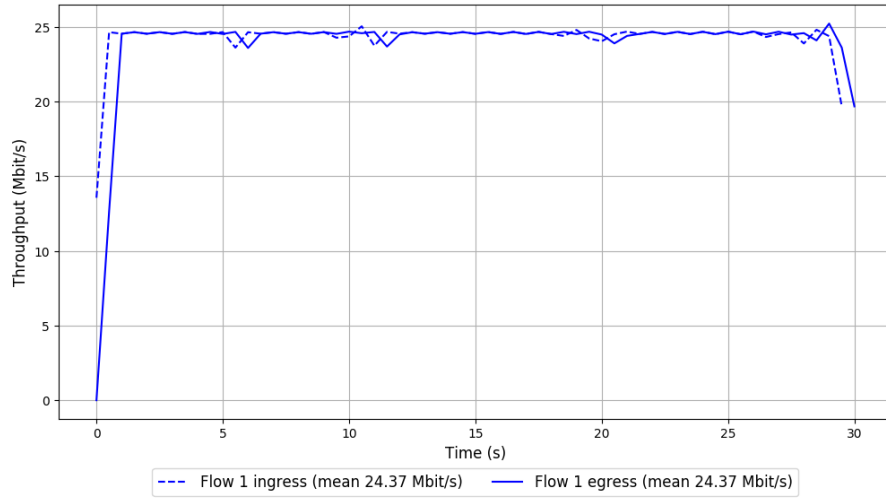
-- Flow 1:

Average throughput: 24.37 Mbit/s

95th percentile per-packet one-way delay: 19.405 ms

Loss rate: 0.07%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-11-24 11:52:39

End at: 2019-11-24 11:53:09

Local clock offset: 3.748 ms

Remote clock offset: -3.904 ms

# Below is generated by plot.py at 2019-11-24 15:39:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 240.47 Mbit/s

95th percentile per-packet one-way delay: 19.205 ms

Loss rate: 0.06%

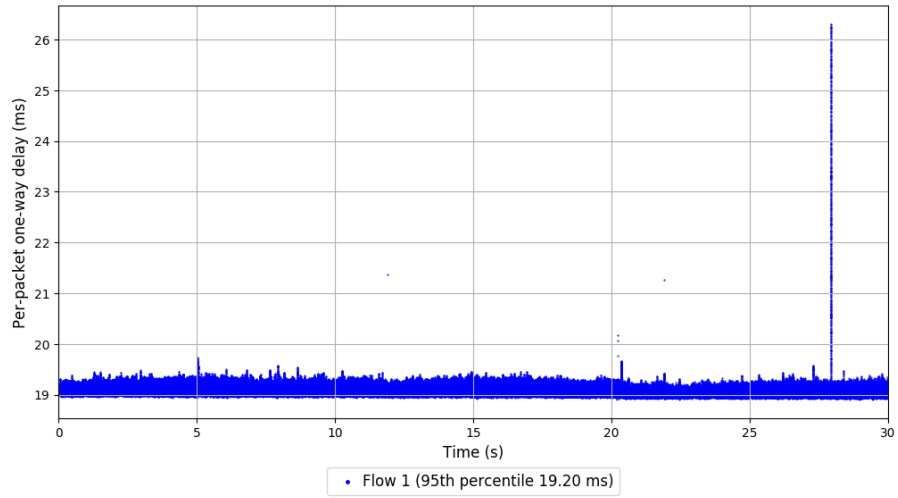
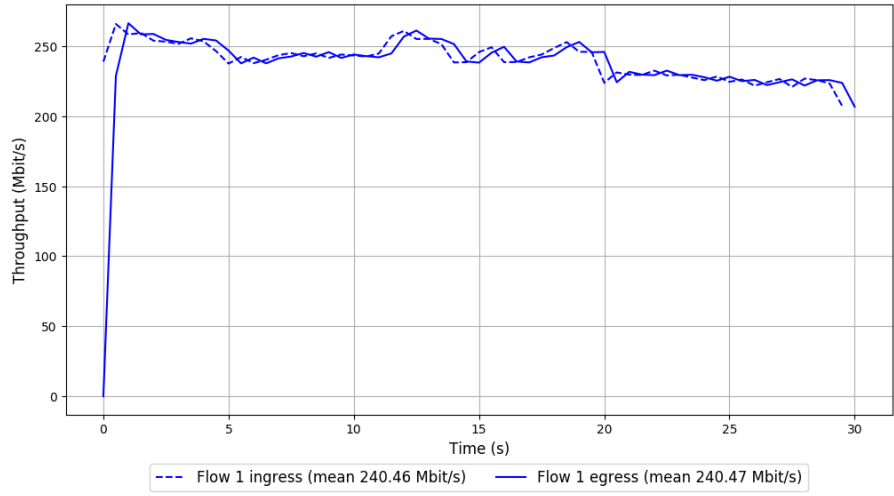
-- Flow 1:

Average throughput: 240.47 Mbit/s

95th percentile per-packet one-way delay: 19.205 ms

Loss rate: 0.06%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-11-24 12:26:25

End at: 2019-11-24 12:26:55

Local clock offset: 3.32 ms

Remote clock offset: -3.108 ms

# Below is generated by plot.py at 2019-11-24 15:39:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 121.17 Mbit/s

95th percentile per-packet one-way delay: 0.900 ms

Loss rate: 0.00%

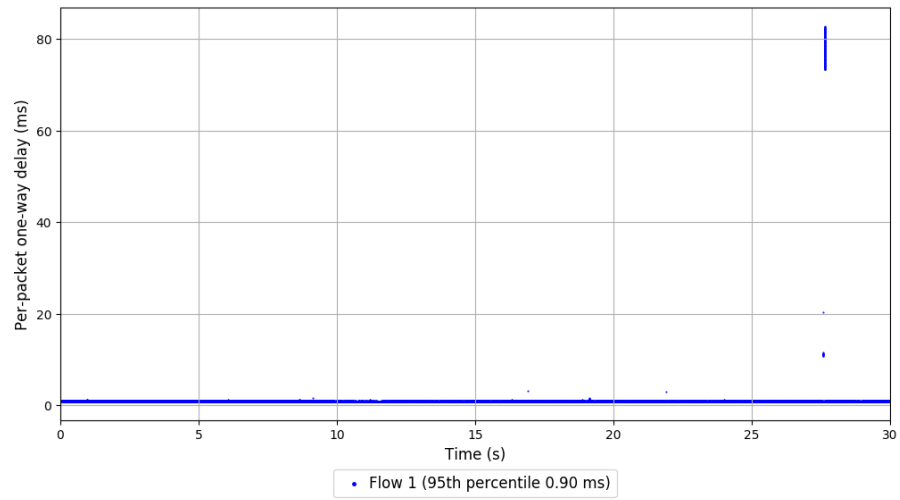
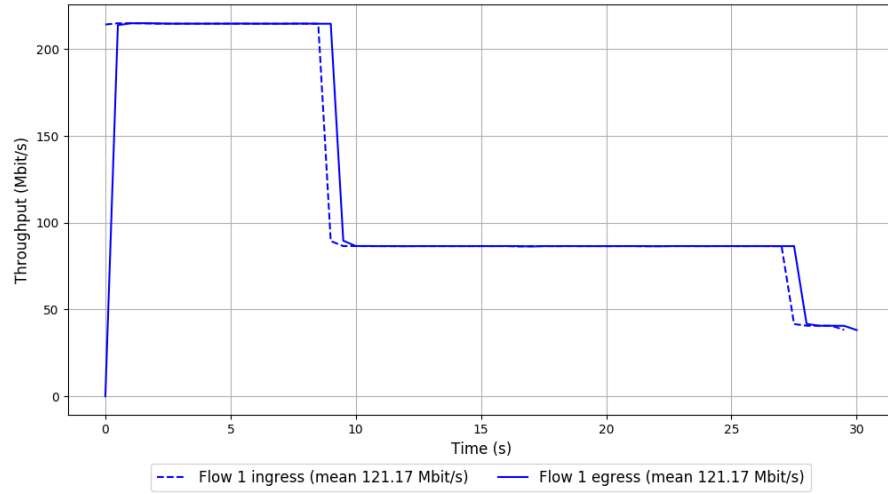
-- Flow 1:

Average throughput: 121.17 Mbit/s

95th percentile per-packet one-way delay: 0.900 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-11-24 13:00:16

End at: 2019-11-24 13:00:46

Local clock offset: 2.725 ms

Remote clock offset: 6.953 ms

# Below is generated by plot.py at 2019-11-24 15:39:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 249.34 Mbit/s

95th percentile per-packet one-way delay: 18.499 ms

Loss rate: 0.06%

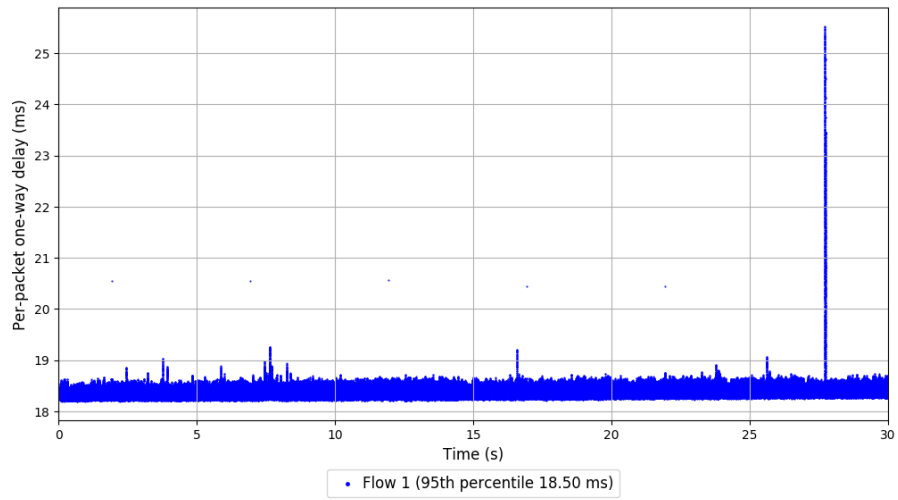
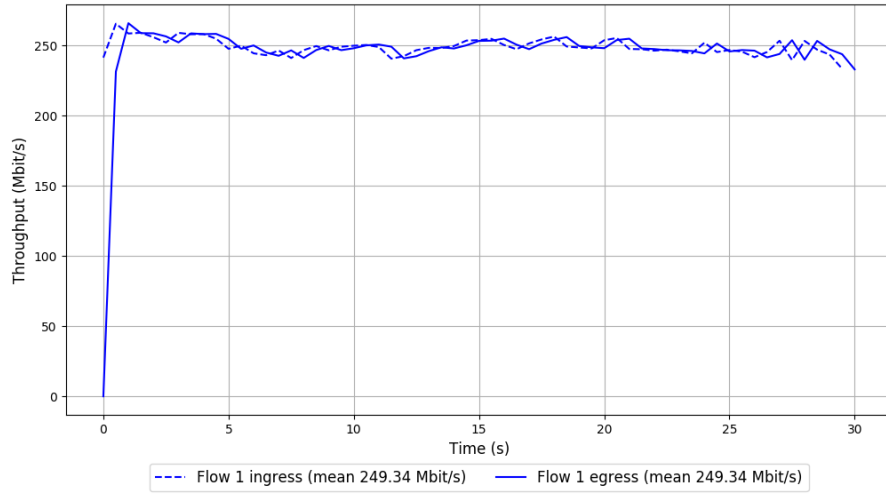
-- Flow 1:

Average throughput: 249.34 Mbit/s

95th percentile per-packet one-way delay: 18.499 ms

Loss rate: 0.06%

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





Run 4: Statistics of TaoVA-100x

Start at: 2019-11-24 13:34:15

End at: 2019-11-24 13:34:45

Local clock offset: 3.64 ms

Remote clock offset: 5.047 ms

# Below is generated by plot.py at 2019-11-24 15:39:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 31.21 Mbit/s

95th percentile per-packet one-way delay: 1.004 ms

Loss rate: 0.00%

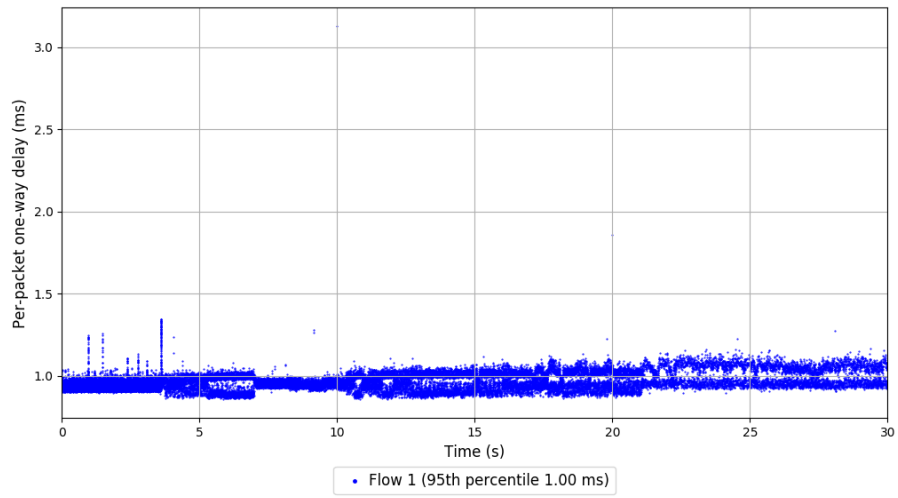
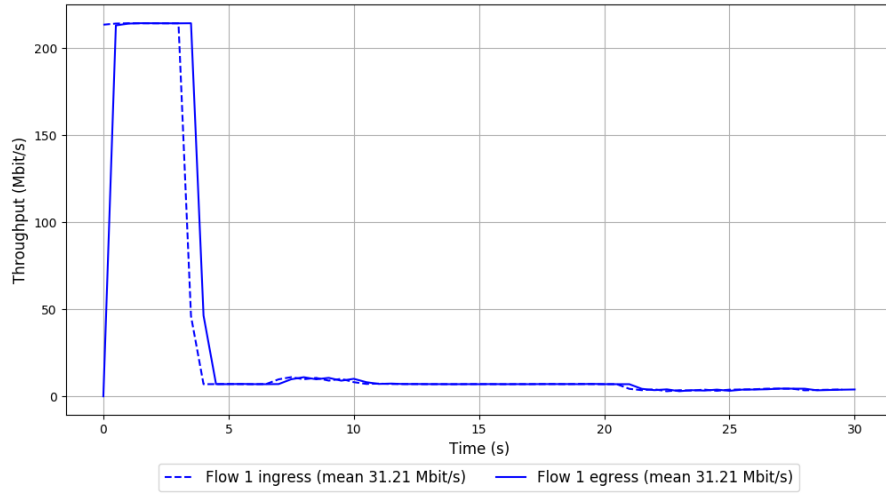
-- Flow 1:

Average throughput: 31.21 Mbit/s

95th percentile per-packet one-way delay: 1.004 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-11-24 14:08:12

End at: 2019-11-24 14:08:42

Local clock offset: 3.651 ms

Remote clock offset: -4.201 ms

# Below is generated by plot.py at 2019-11-24 15:39:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 128.92 Mbit/s

95th percentile per-packet one-way delay: 0.901 ms

Loss rate: 0.00%

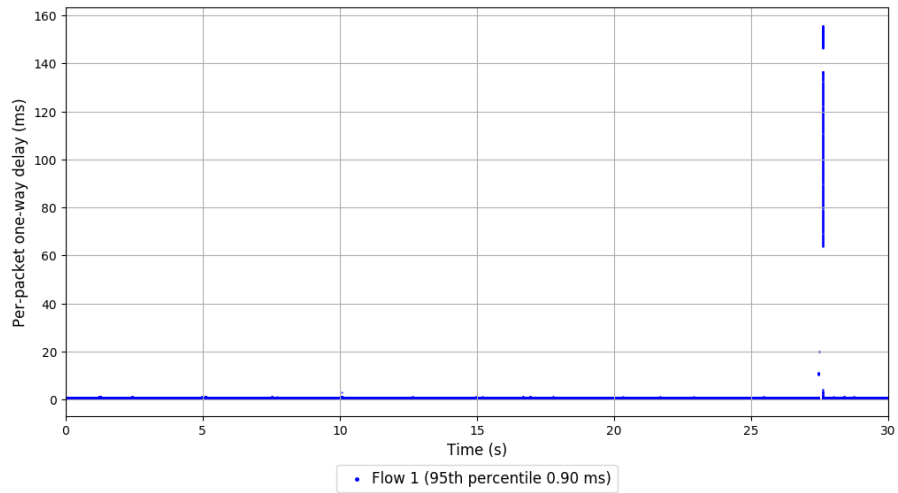
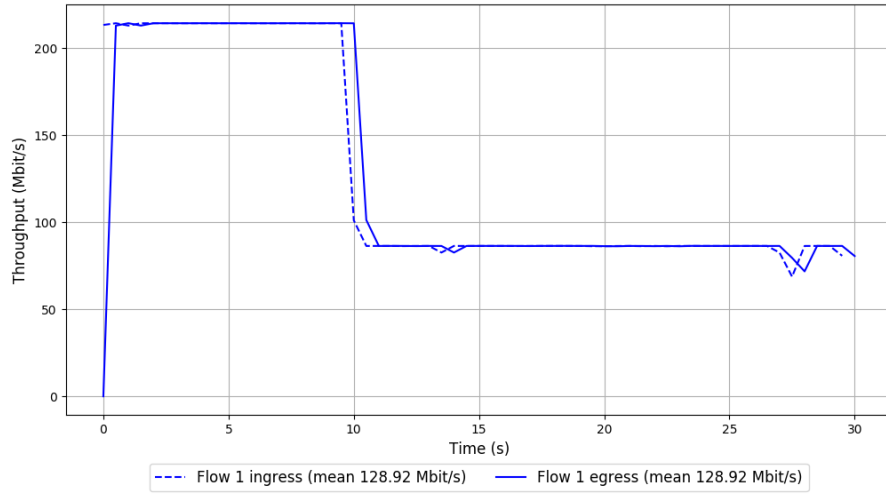
-- Flow 1:

Average throughput: 128.92 Mbit/s

95th percentile per-packet one-way delay: 0.901 ms

Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-11-24 12:00:09  
End at: 2019-11-24 12:00:39  
Local clock offset: 3.943 ms  
Remote clock offset: -3.534 ms

# Below is generated by plot.py at 2019-11-24 15:39:06

# Datalink statistics

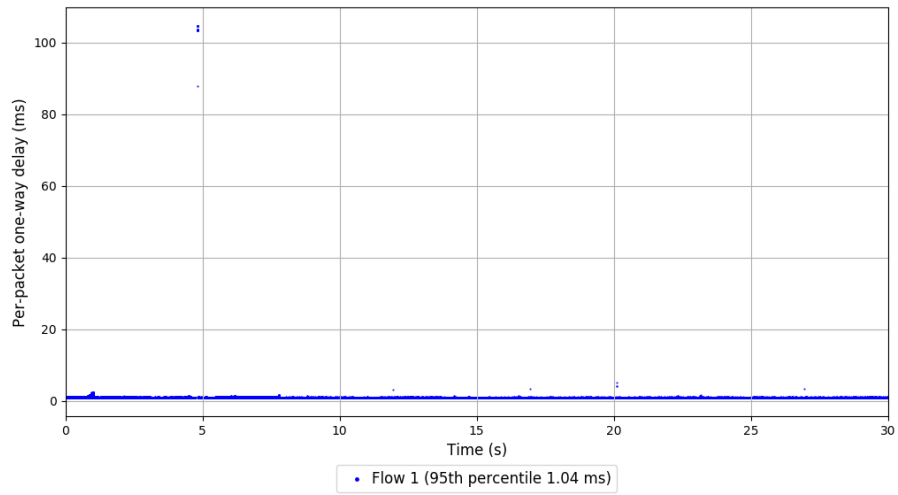
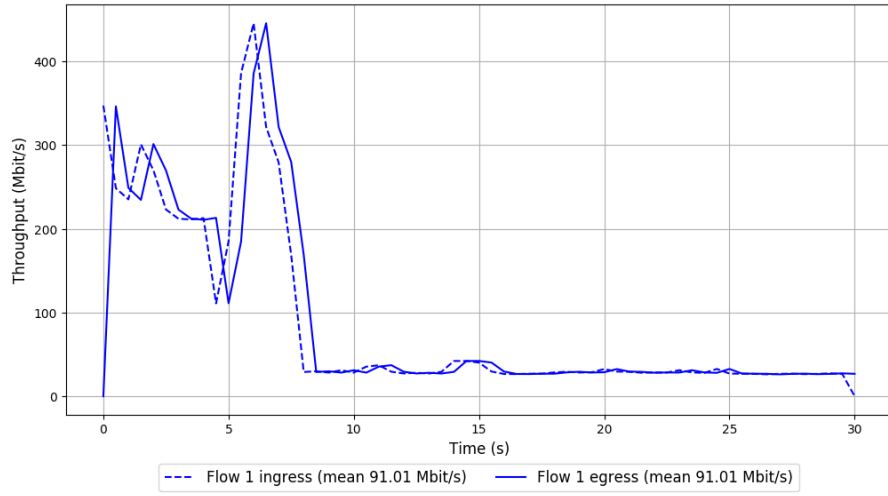
-- Total of 1 flow:

Average throughput: 91.01 Mbit/s  
95th percentile per-packet one-way delay: 1.045 ms  
Loss rate: 0.01%

-- Flow 1:

Average throughput: 91.01 Mbit/s  
95th percentile per-packet one-way delay: 1.045 ms  
Loss rate: 0.01%

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



Run 2: Statistics of TCP Vegas

Start at: 2019-11-24 12:33:52

End at: 2019-11-24 12:34:22

Local clock offset: 3.209 ms

Remote clock offset: 0.908 ms

# Below is generated by plot.py at 2019-11-24 15:39:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 290.28 Mbit/s

95th percentile per-packet one-way delay: 20.112 ms

Loss rate: 0.06%

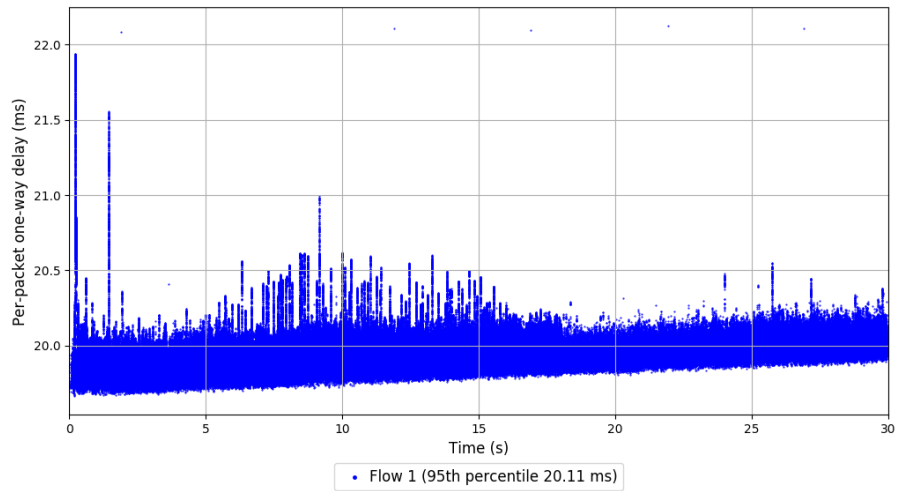
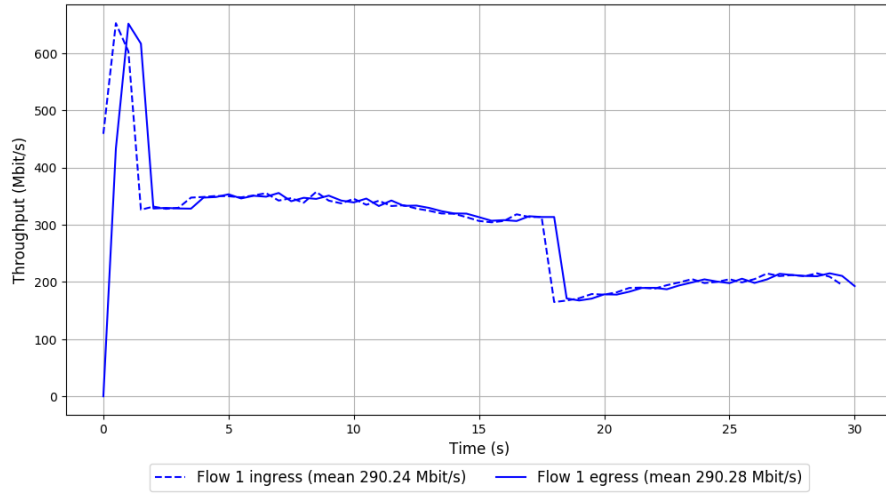
-- Flow 1:

Average throughput: 290.28 Mbit/s

95th percentile per-packet one-way delay: 20.112 ms

Loss rate: 0.06%

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





Run 3: Statistics of TCP Vegas

Start at: 2019-11-24 13:07:48

End at: 2019-11-24 13:08:18

Local clock offset: 2.617 ms

Remote clock offset: 5.394 ms

# Below is generated by plot.py at 2019-11-24 15:39:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 355.13 Mbit/s

95th percentile per-packet one-way delay: 18.701 ms

Loss rate: 0.07%

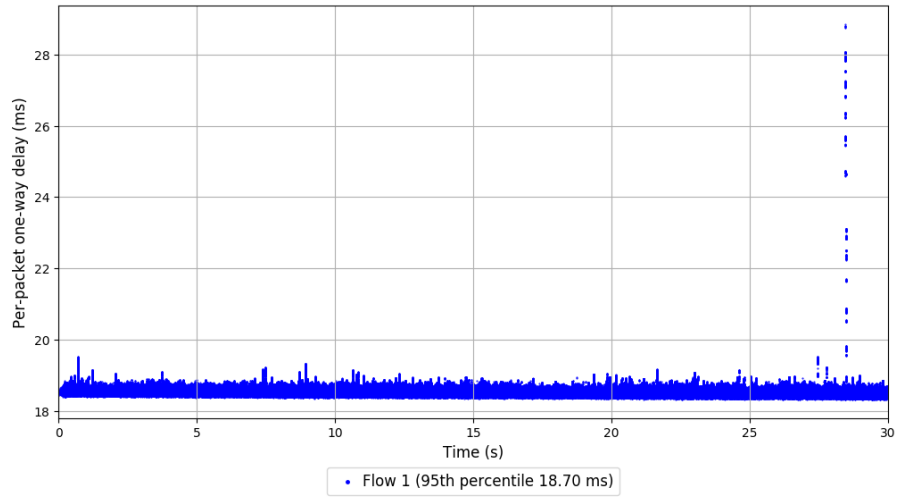
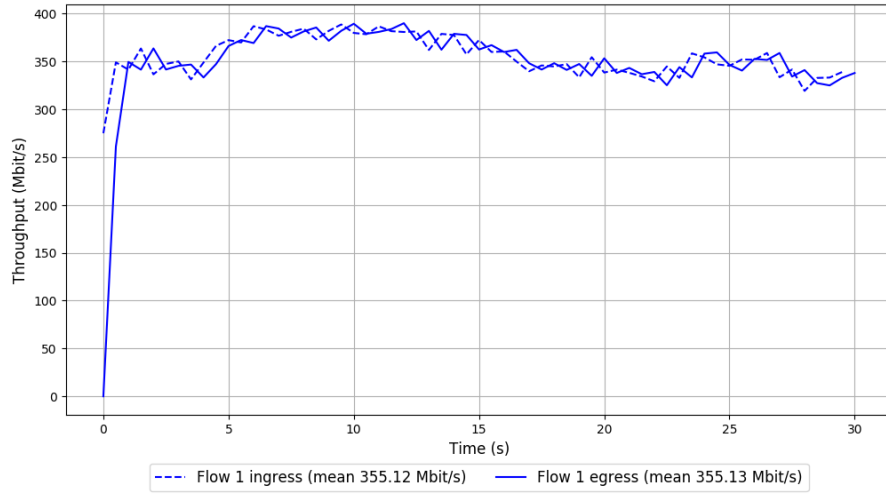
-- Flow 1:

Average throughput: 355.13 Mbit/s

95th percentile per-packet one-way delay: 18.701 ms

Loss rate: 0.07%

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



Run 4: Statistics of TCP Vegas

Start at: 2019-11-24 13:41:29

End at: 2019-11-24 13:41:59

Local clock offset: 3.673 ms

Remote clock offset: 1.033 ms

# Below is generated by plot.py at 2019-11-24 15:39:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 240.78 Mbit/s

95th percentile per-packet one-way delay: 2.669 ms

Loss rate: 0.01%

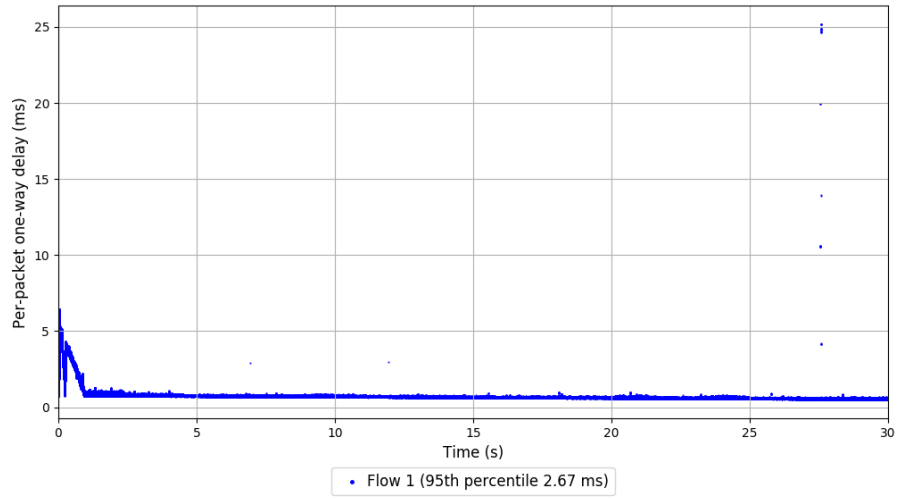
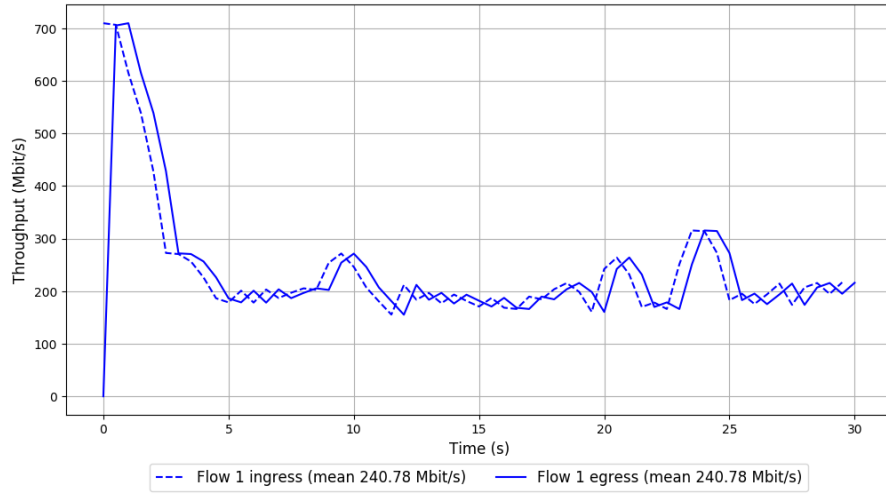
-- Flow 1:

Average throughput: 240.78 Mbit/s

95th percentile per-packet one-way delay: 2.669 ms

Loss rate: 0.01%

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



Run 5: Statistics of TCP Vegas

Start at: 2019-11-24 14:15:40  
End at: 2019-11-24 14:16:10  
Local clock offset: 3.581 ms  
Remote clock offset: -3.761 ms

# Below is generated by plot.py at 2019-11-24 15:39:13

# Datalink statistics

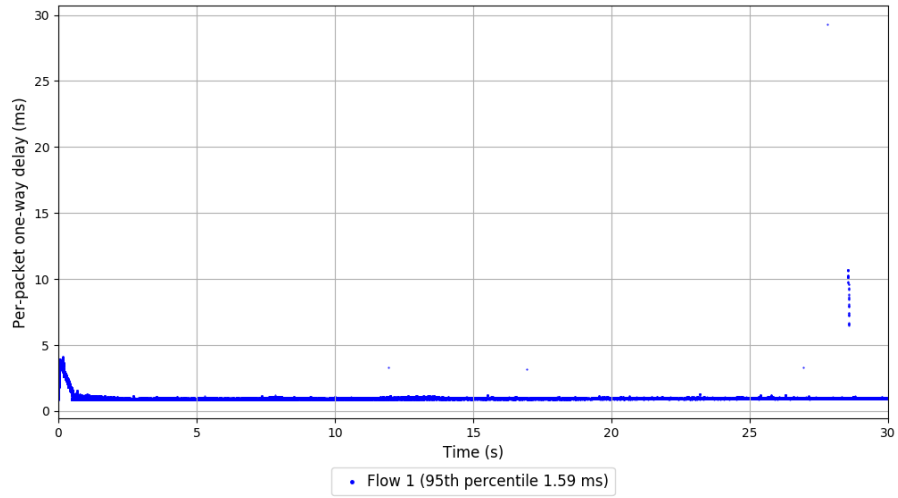
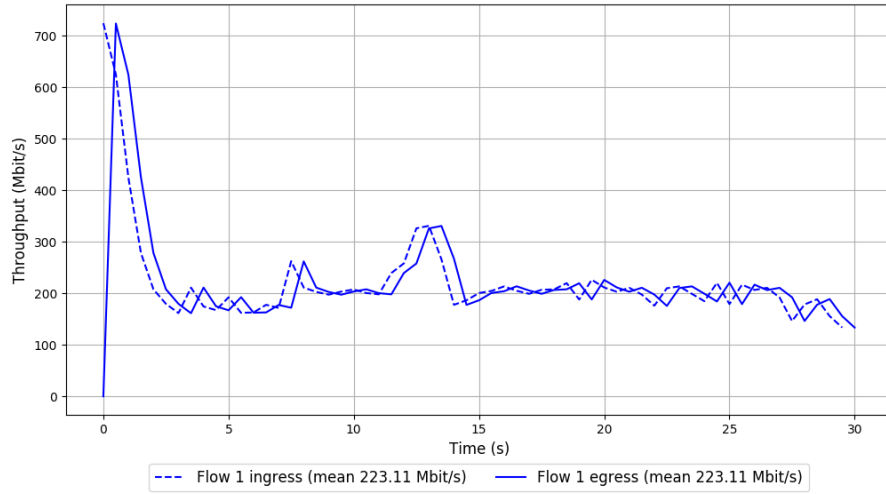
-- Total of 1 flow:

Average throughput: 223.11 Mbit/s  
95th percentile per-packet one-way delay: 1.594 ms  
Loss rate: 0.00%

-- Flow 1:

Average throughput: 223.11 Mbit/s  
95th percentile per-packet one-way delay: 1.594 ms  
Loss rate: 0.00%

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

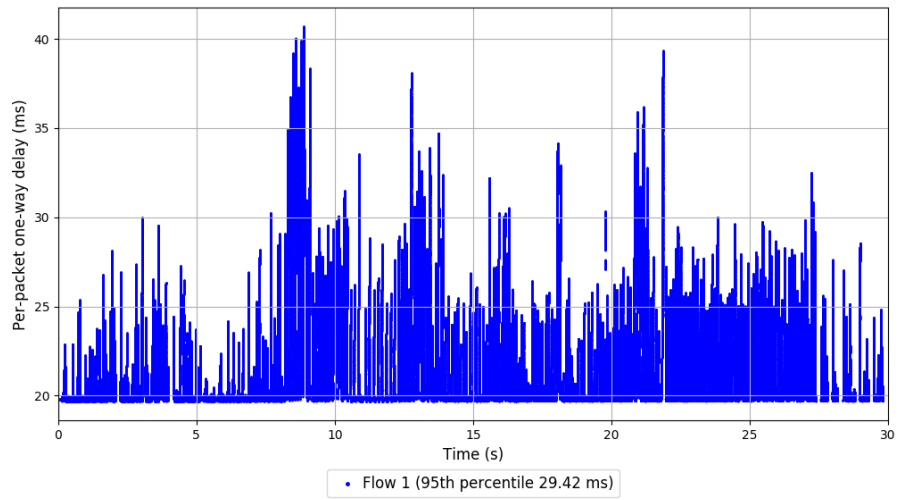
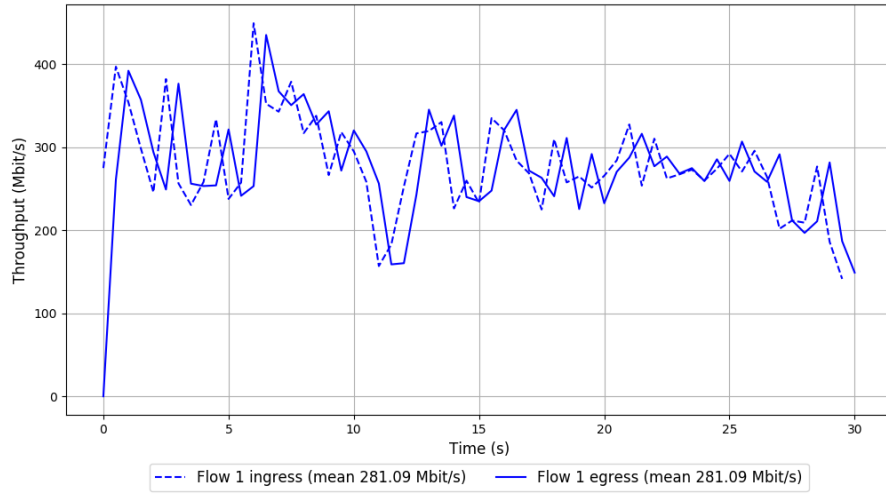


Run 1: Statistics of Verus

Start at: 2019-11-24 11:57:12  
End at: 2019-11-24 11:57:42  
Local clock offset: 3.893 ms  
Remote clock offset: -3.644 ms

# Below is generated by plot.py at 2019-11-24 15:41:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 281.09 Mbit/s  
95th percentile per-packet one-way delay: 29.422 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 281.09 Mbit/s  
95th percentile per-packet one-way delay: 29.422 ms  
Loss rate: 0.00%

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





Run 2: Statistics of Verus

Start at: 2019-11-24 12:30:54

End at: 2019-11-24 12:31:24

Local clock offset: 3.247 ms

Remote clock offset: -0.77 ms

# Below is generated by plot.py at 2019-11-24 15:41:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 318.18 Mbit/s

95th percentile per-packet one-way delay: 29.771 ms

Loss rate: 0.15%

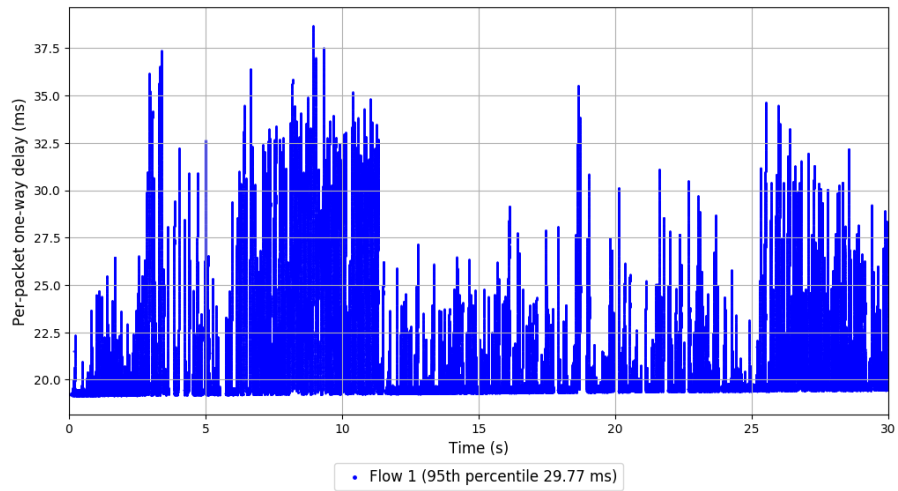
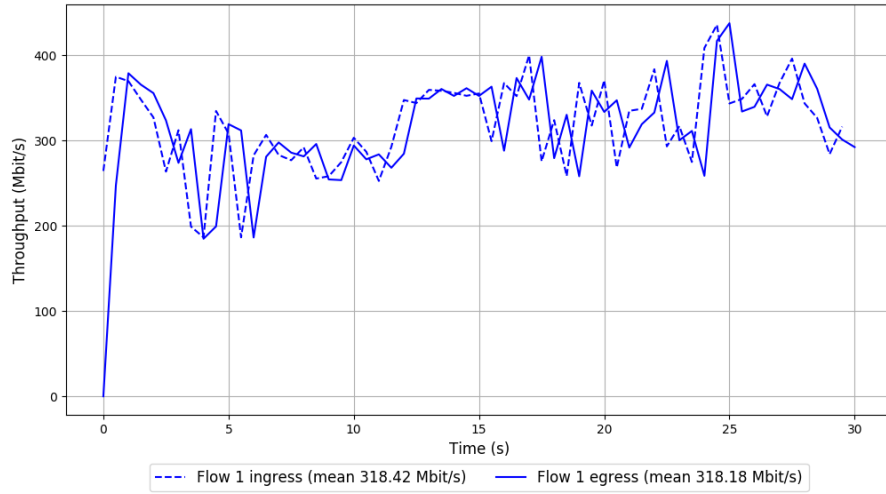
-- Flow 1:

Average throughput: 318.18 Mbit/s

95th percentile per-packet one-way delay: 29.771 ms

Loss rate: 0.15%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-11-24 13:04:50

End at: 2019-11-24 13:05:20

Local clock offset: 2.703 ms

Remote clock offset: 5.943 ms

# Below is generated by plot.py at 2019-11-24 15:41:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 272.60 Mbit/s

95th percentile per-packet one-way delay: 2.373 ms

Loss rate: 0.01%

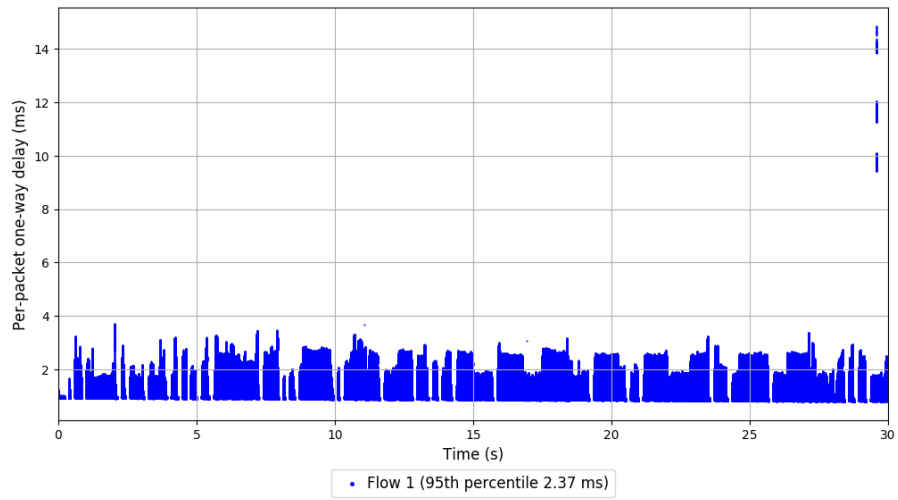
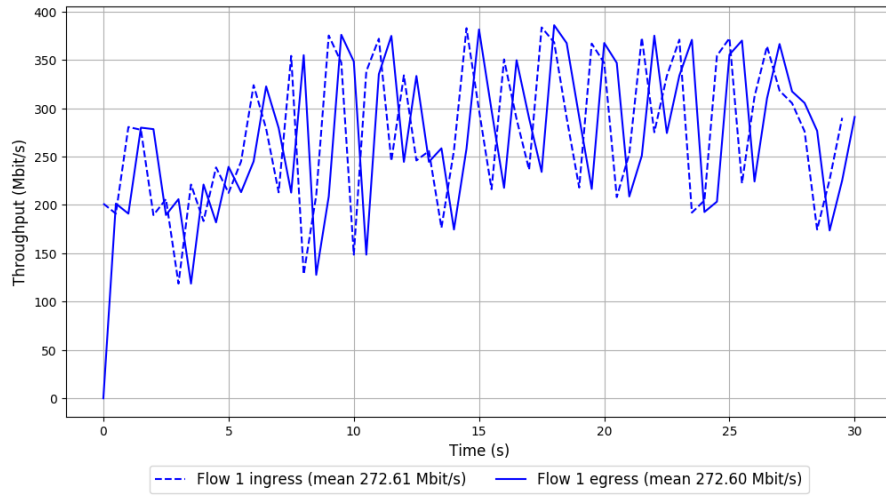
-- Flow 1:

Average throughput: 272.60 Mbit/s

95th percentile per-packet one-way delay: 2.373 ms

Loss rate: 0.01%

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



Run 4: Statistics of Verus

Start at: 2019-11-24 13:38:33

End at: 2019-11-24 13:39:03

Local clock offset: 3.692 ms

Remote clock offset: 2.744 ms

# Below is generated by plot.py at 2019-11-24 15:41:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 246.94 Mbit/s

95th percentile per-packet one-way delay: 26.364 ms

Loss rate: 0.11%

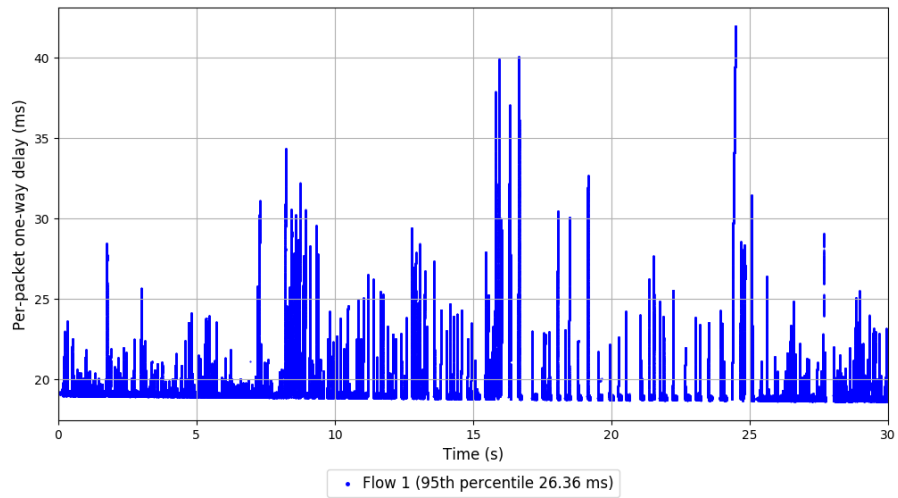
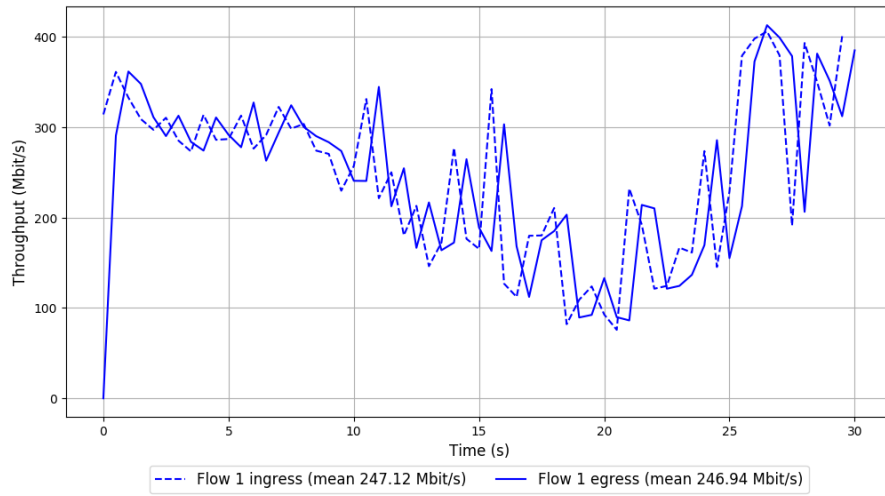
-- Flow 1:

Average throughput: 246.94 Mbit/s

95th percentile per-packet one-way delay: 26.364 ms

Loss rate: 0.11%

Run 4: Report of Verus — Data Link

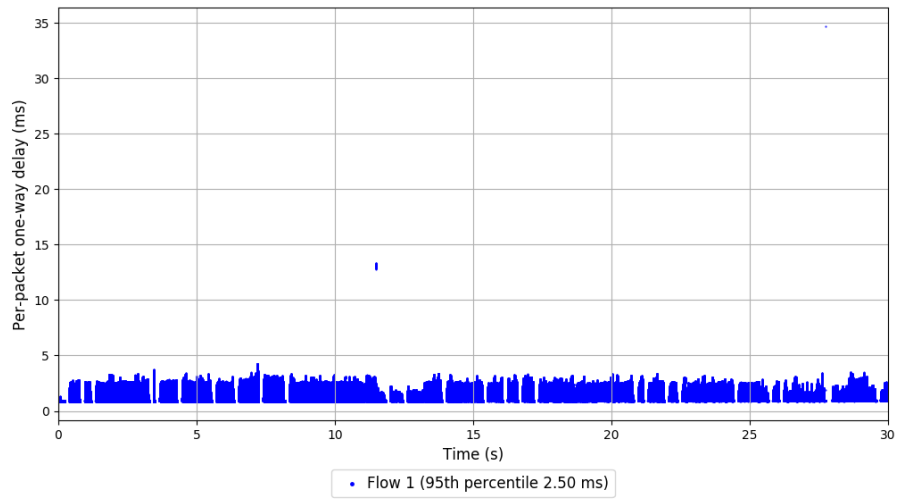
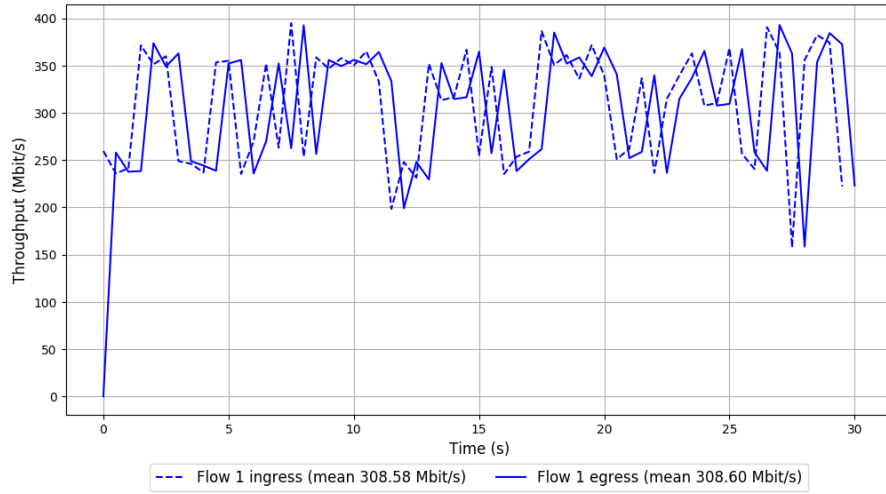


Run 5: Statistics of Verus

Start at: 2019-11-24 14:12:41  
End at: 2019-11-24 14:13:11  
Local clock offset: 3.588 ms  
Remote clock offset: -3.989 ms

# Below is generated by plot.py at 2019-11-24 15:41:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 308.60 Mbit/s  
95th percentile per-packet one-way delay: 2.504 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 308.60 Mbit/s  
95th percentile per-packet one-way delay: 2.504 ms  
Loss rate: 0.01%

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





Run 1: Statistics of PCC-Vivace

Start at: 2019-11-24 12:07:00

End at: 2019-11-24 12:07:30

Local clock offset: 4.056 ms

Remote clock offset: -3.327 ms

# Below is generated by plot.py at 2019-11-24 15:42:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 348.61 Mbit/s

95th percentile per-packet one-way delay: 0.930 ms

Loss rate: 0.01%

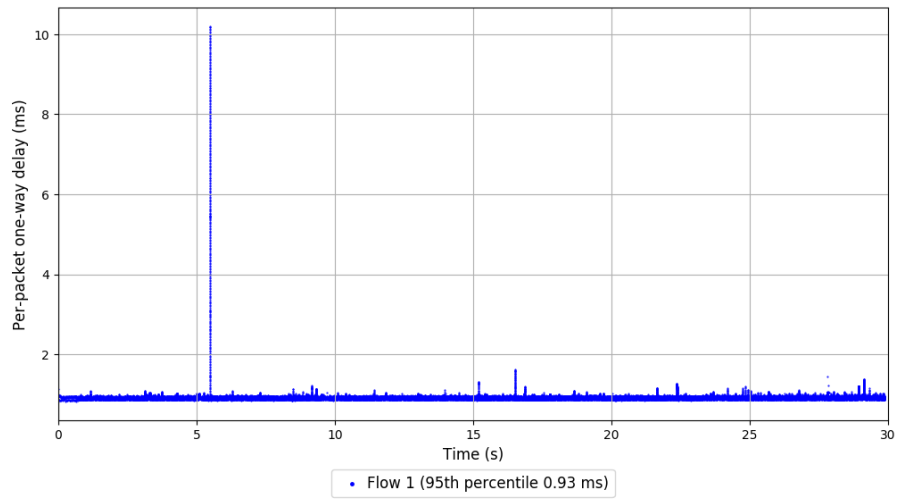
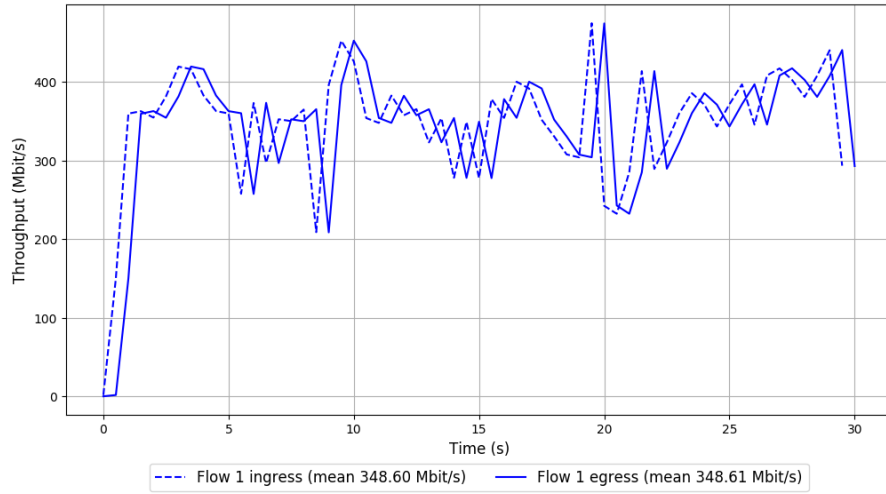
-- Flow 1:

Average throughput: 348.61 Mbit/s

95th percentile per-packet one-way delay: 0.930 ms

Loss rate: 0.01%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-11-24 12:40:47

End at: 2019-11-24 12:41:17

Local clock offset: 3.108 ms

Remote clock offset: 3.352 ms

# Below is generated by plot.py at 2019-11-24 15:42:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 362.34 Mbit/s

95th percentile per-packet one-way delay: 19.132 ms

Loss rate: 0.04%

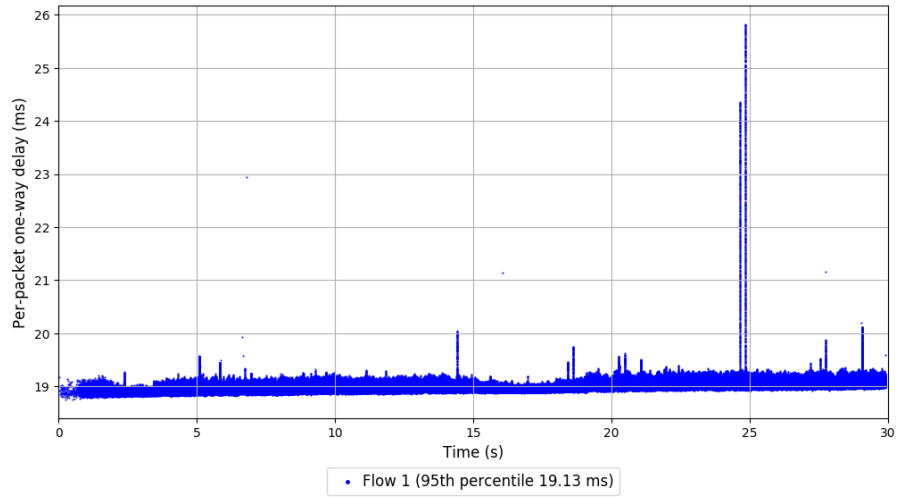
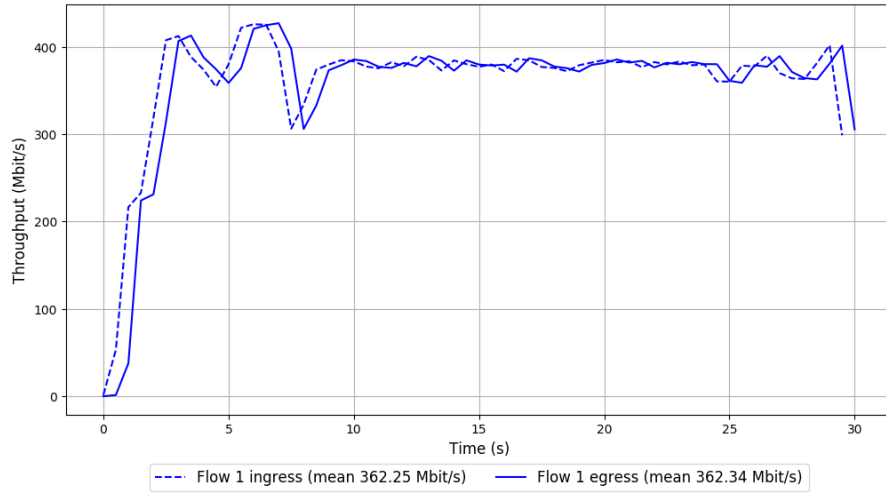
-- Flow 1:

Average throughput: 362.34 Mbit/s

95th percentile per-packet one-way delay: 19.132 ms

Loss rate: 0.04%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-11-24 13:14:56

End at: 2019-11-24 13:15:26

Local clock offset: 3.084 ms

Remote clock offset: 4.665 ms

# Below is generated by plot.py at 2019-11-24 15:42:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 373.15 Mbit/s

95th percentile per-packet one-way delay: 19.280 ms

Loss rate: 0.08%

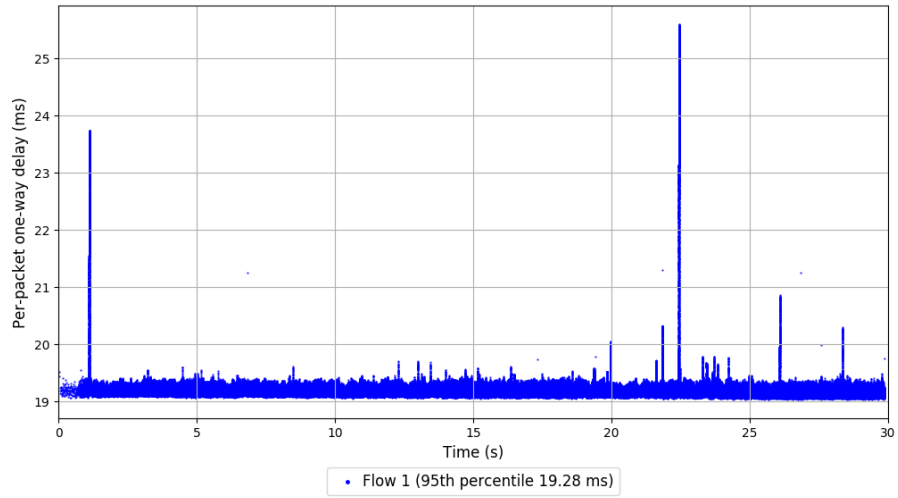
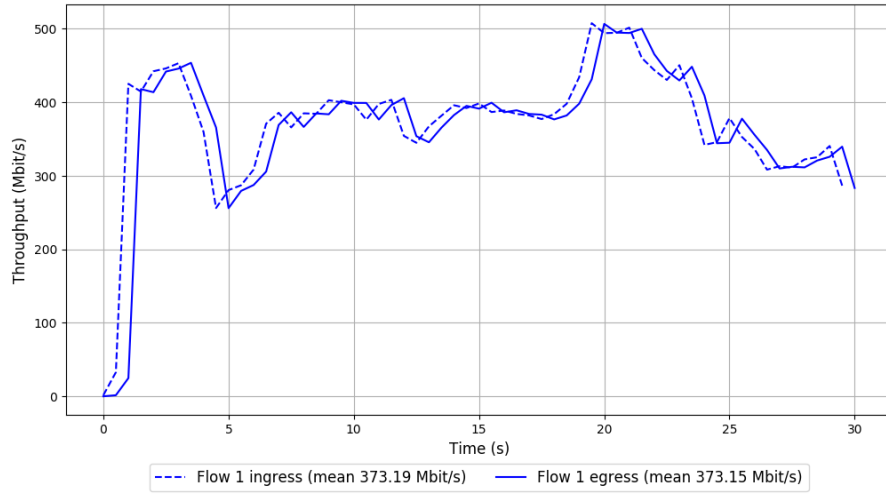
-- Flow 1:

Average throughput: 373.15 Mbit/s

95th percentile per-packet one-way delay: 19.280 ms

Loss rate: 0.08%

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



Run 4: Statistics of PCC-Vivace

Start at: 2019-11-24 13:48:30

End at: 2019-11-24 13:49:00

Local clock offset: 3.617 ms

Remote clock offset: -1.683 ms

# Below is generated by plot.py at 2019-11-24 15:43:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 368.62 Mbit/s

95th percentile per-packet one-way delay: 0.897 ms

Loss rate: 0.28%

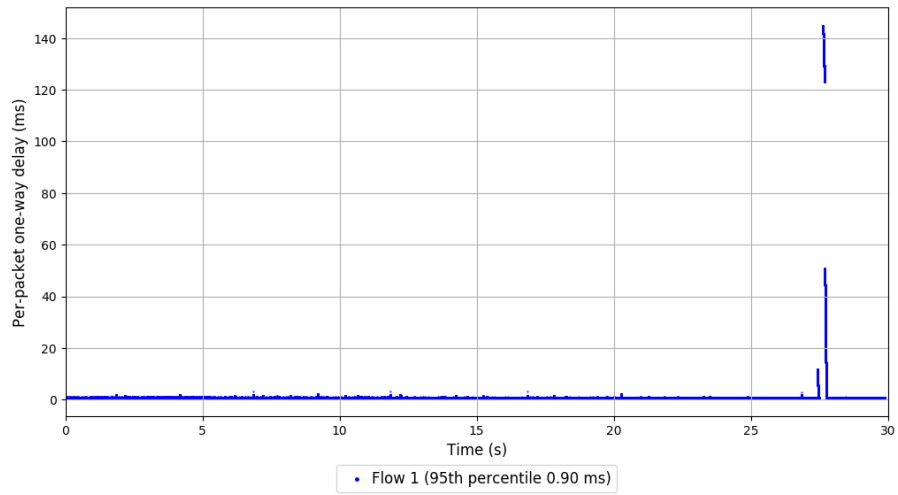
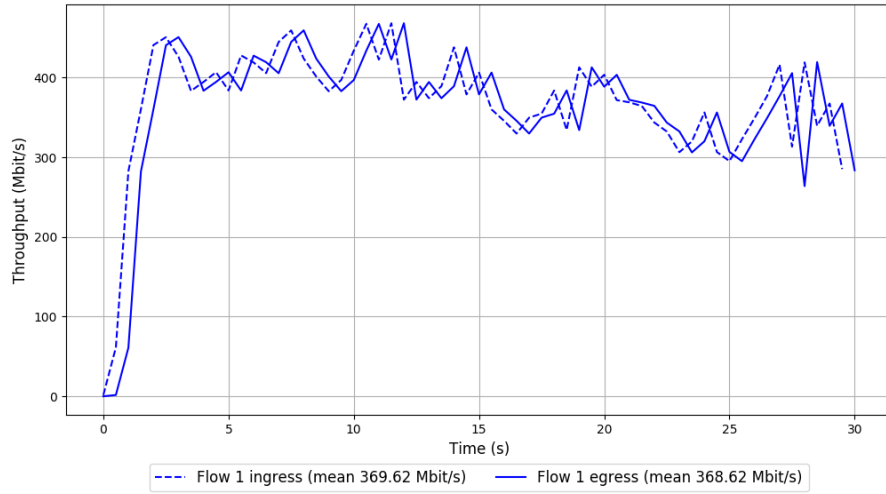
-- Flow 1:

Average throughput: 368.62 Mbit/s

95th percentile per-packet one-way delay: 0.897 ms

Loss rate: 0.28%

Run 4: Report of PCC-Vivace — Data Link





Run 5: Statistics of PCC-Vivace

Start at: 2019-11-24 14:22:50

End at: 2019-11-24 14:23:20

Local clock offset: 3.545 ms

Remote clock offset: -3.583 ms

# Below is generated by plot.py at 2019-11-24 15:43:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 362.38 Mbit/s

95th percentile per-packet one-way delay: 0.925 ms

Loss rate: 0.01%

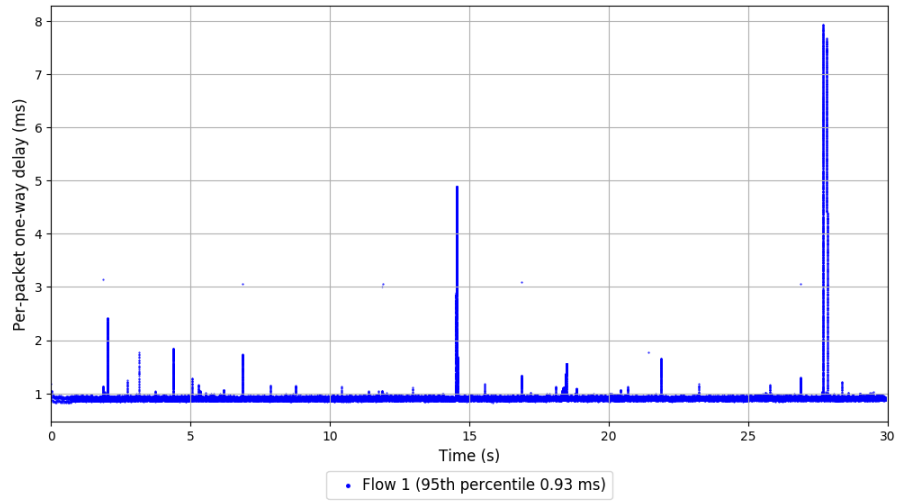
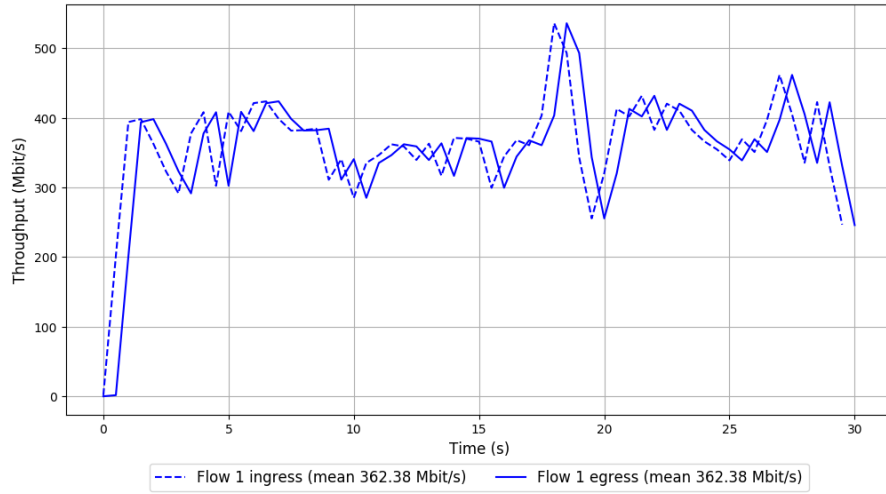
-- Flow 1:

Average throughput: 362.38 Mbit/s

95th percentile per-packet one-way delay: 0.925 ms

Loss rate: 0.01%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-11-24 12:09:54

End at: 2019-11-24 12:10:24

Local clock offset: 4.083 ms

Remote clock offset: -3.283 ms

# Below is generated by plot.py at 2019-11-24 15:43:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.126 ms

Loss rate: 0.00%

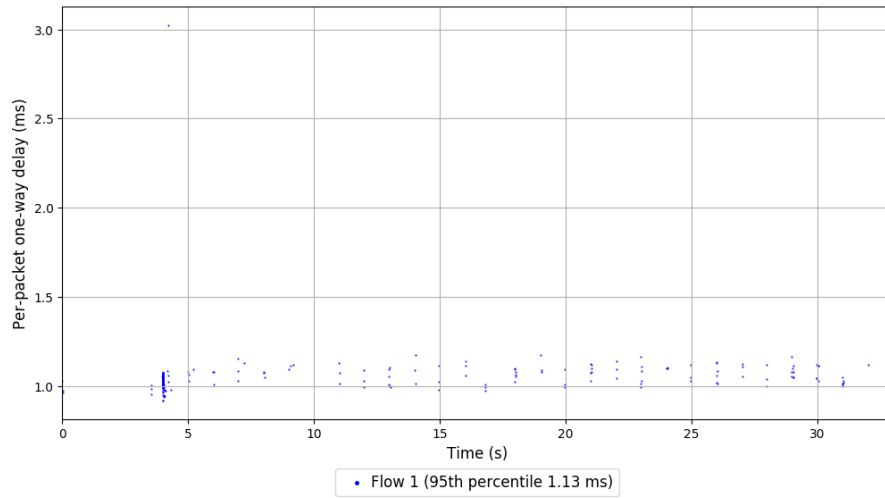
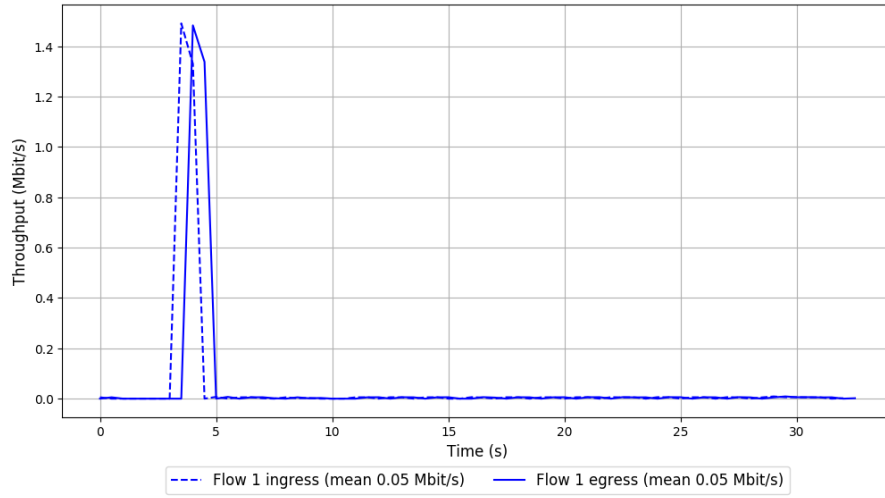
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.126 ms

Loss rate: 0.00%

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



Run 2: Statistics of WebRTC media

Start at: 2019-11-24 12:43:31

End at: 2019-11-24 12:44:01

Local clock offset: 3.021 ms

Remote clock offset: 4.043 ms

# Below is generated by plot.py at 2019-11-24 15:43:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 18.907 ms

Loss rate: 0.00%

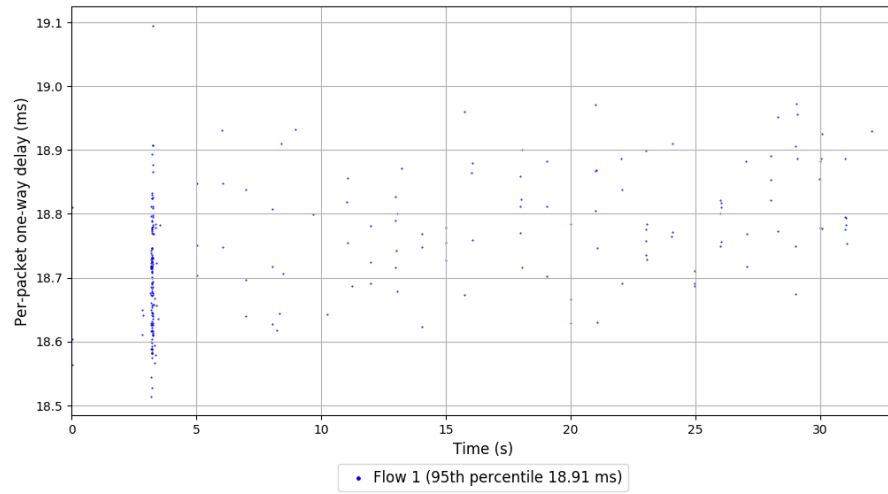
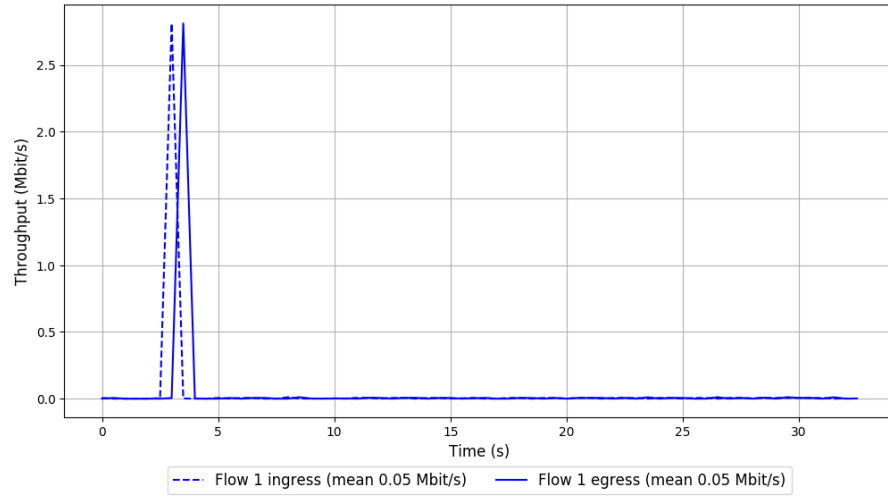
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 18.907 ms

Loss rate: 0.00%

## Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-11-24 13:17:40

End at: 2019-11-24 13:18:10

Local clock offset: 3.239 ms

Remote clock offset: 4.517 ms

# Below is generated by plot.py at 2019-11-24 15:43:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 18.832 ms

Loss rate: 0.05%

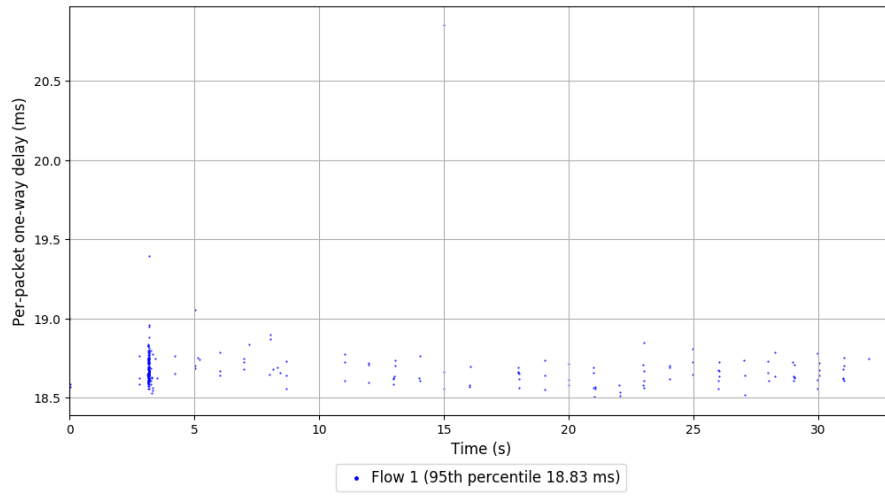
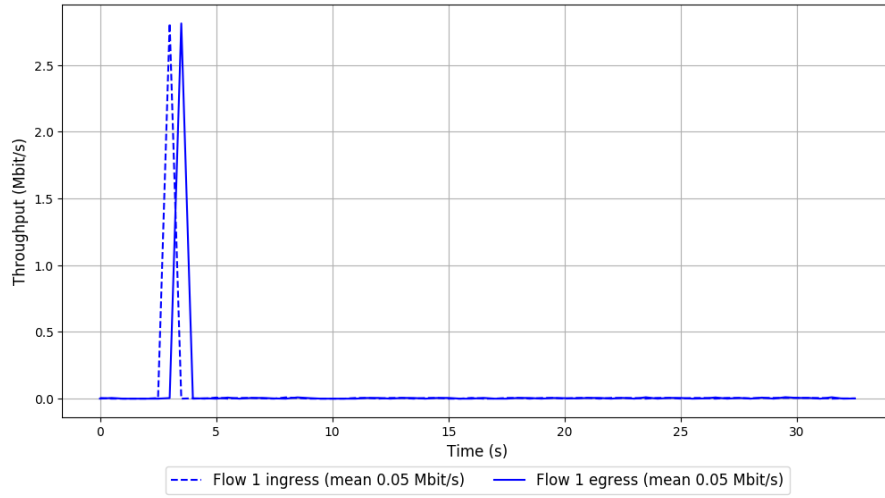
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 18.832 ms

Loss rate: 0.05%

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



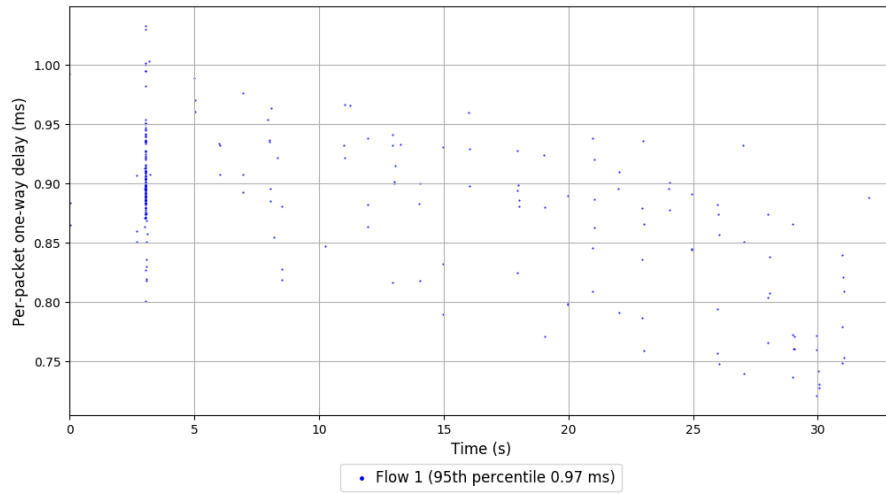
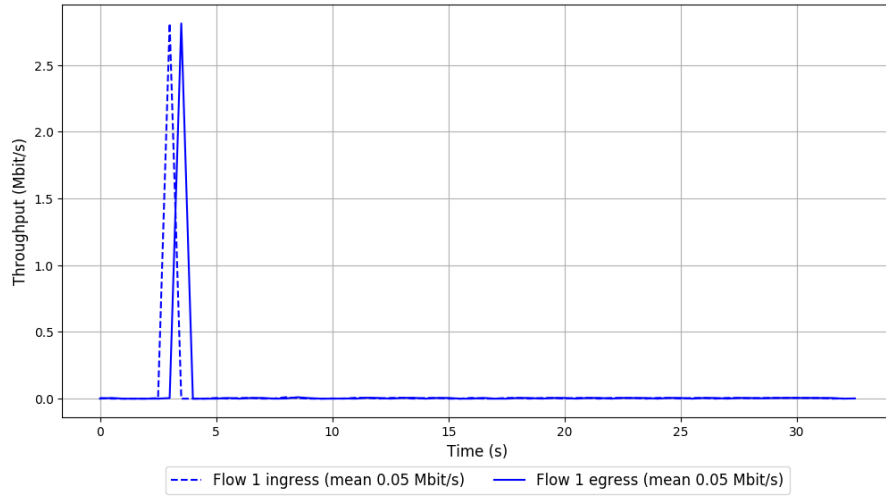


Run 4: Statistics of WebRTC media

Start at: 2019-11-24 13:51:26  
End at: 2019-11-24 13:51:56  
Local clock offset: 3.611 ms  
Remote clock offset: -2.326 ms

```
# Below is generated by plot.py at 2019-11-24 15:43:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 0.967 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 0.967 ms
Loss rate: 0.00%
```

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



Run 5: Statistics of WebRTC media

Start at: 2019-11-24 14:25:44

End at: 2019-11-24 14:26:14

Local clock offset: 3.535 ms

Remote clock offset: -3.518 ms

# Below is generated by plot.py at 2019-11-24 15:43:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 0.946 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 0.946 ms

Loss rate: 0.05%

### Run 5: Report of WebRTC media — Data Link

