

## Pantheon Report

Generated at 2020-02-18 03:02:35 (UTC).

Data path: GCE Sydney on `ens4` (*local*) → GCE Iowa on `ens4` (*remote*).

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.google.com` and have been applied to correct the timestamps in logs.

### System info:

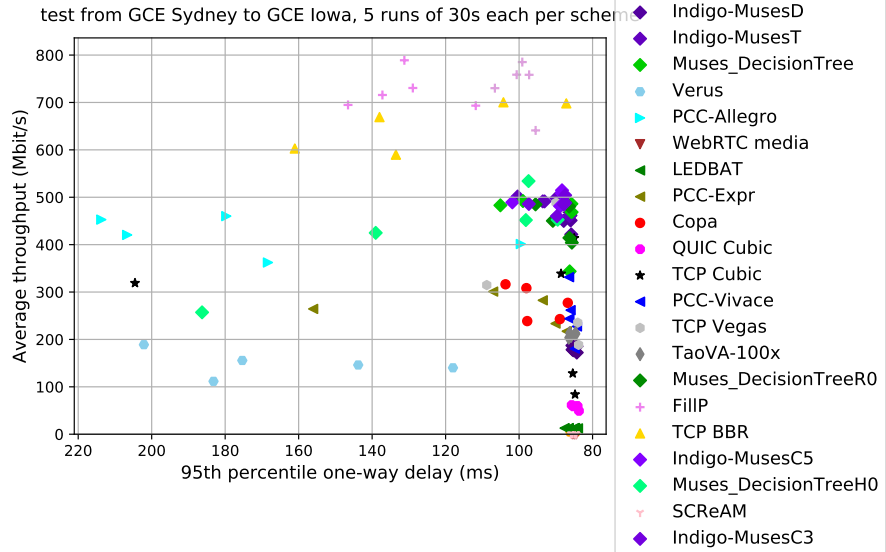
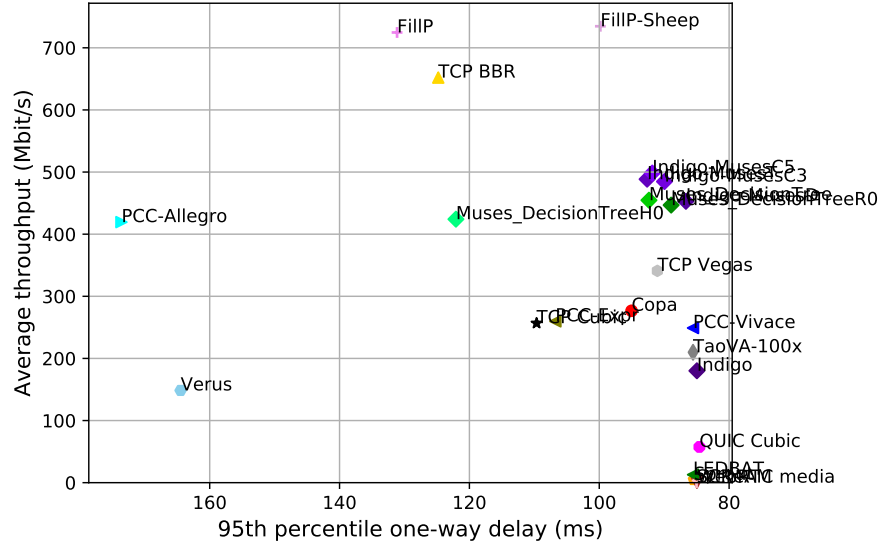
```
Linux 5.0.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
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 GCE Sydney to GCE Iowa, 5 runs of 30s each per scheme  
(mean of all runs by scheme)



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	652.07	124.80	0.28
Copa	5	276.69	95.03	0.00
TCP Cubic	5	256.73	109.65	0.00
FillP	5	724.68	131.14	0.31
FillP-Sheep	5	734.69	99.83	0.05
Indigo	5	180.10	84.96	0.00
Indigo-MusesC3	5	484.70	89.96	0.06
Indigo-MusesC5	4	498.43	91.83	0.01
Indigo-MusesD	5	452.87	86.66	0.00
Indigo-MusesT	5	488.51	92.63	0.00
LEDBAT	5	12.83	85.56	0.00
Muses_DecisionTree	5	454.70	92.35	0.03
Muses_DecisionTreeH0	5	424.12	122.08	0.56
Muses_DecisionTreeR0	5	446.82	88.93	0.00
PCC-Allegro	5	419.43	173.59	1.66
PCC-Expr	5	259.70	106.76	0.00
QUIC Cubic	5	57.54	84.58	0.00
SCReAM	5	0.22	85.02	0.00
Sprout	5	4.58	85.44	0.00
TaoVA-100x	5	209.87	85.56	0.00
TCP Vegas	5	340.94	91.05	0.00
Verus	5	148.48	164.48	0.42
PCC-Vivace	5	249.00	85.56	0.00
WebRTC media	4	0.05	84.96	0.00



Run 1: Statistics of TCP BBR

Start at: 2020-02-17 21:59:42

End at: 2020-02-17 22:00:12

Local clock offset: 4.687 ms

Remote clock offset: 17.386 ms

# Below is generated by plot.py at 2020-02-18 00:52:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 700.41 Mbit/s

95th percentile per-packet one-way delay: 104.262 ms

Loss rate: 0.00%

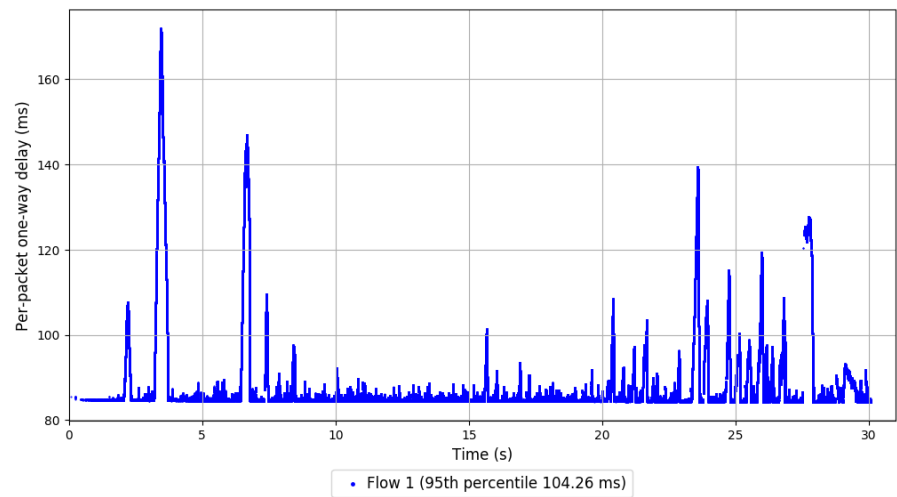
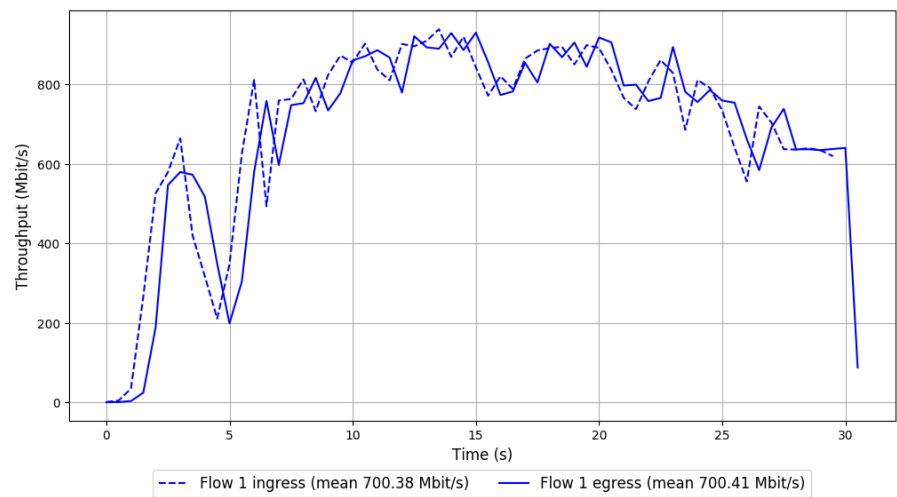
-- Flow 1:

Average throughput: 700.41 Mbit/s

95th percentile per-packet one-way delay: 104.262 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link

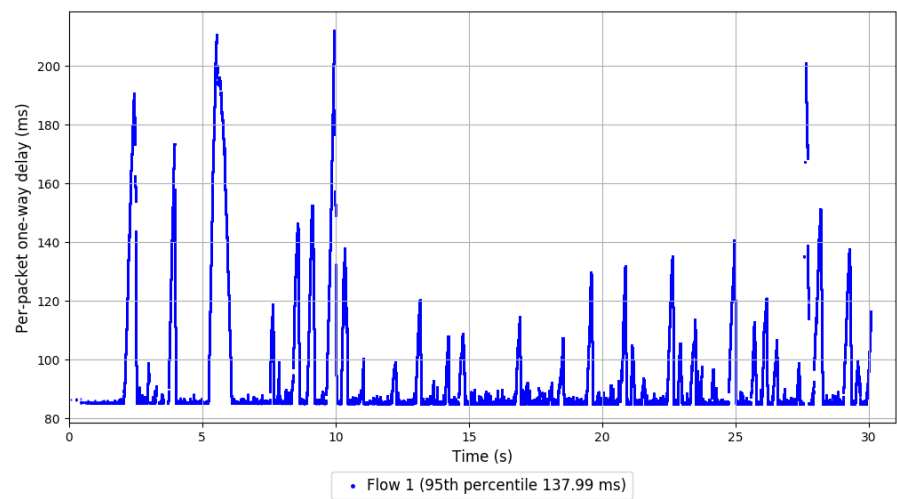
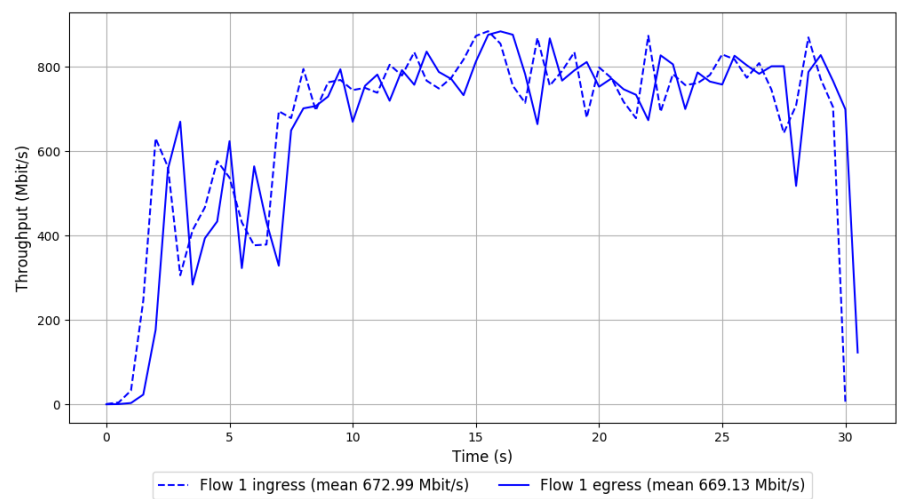


Run 2: Statistics of TCP BBR

Start at: 2020-02-17 22:34:39  
End at: 2020-02-17 22:35:09  
Local clock offset: 7.16 ms  
Remote clock offset: 28.355 ms

# Below is generated by plot.py at 2020-02-18 00:52:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 669.13 Mbit/s  
95th percentile per-packet one-way delay: 137.993 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 669.13 Mbit/s  
95th percentile per-packet one-way delay: 137.993 ms  
Loss rate: 0.57%

Run 2: Report of TCP BBR — Data Link

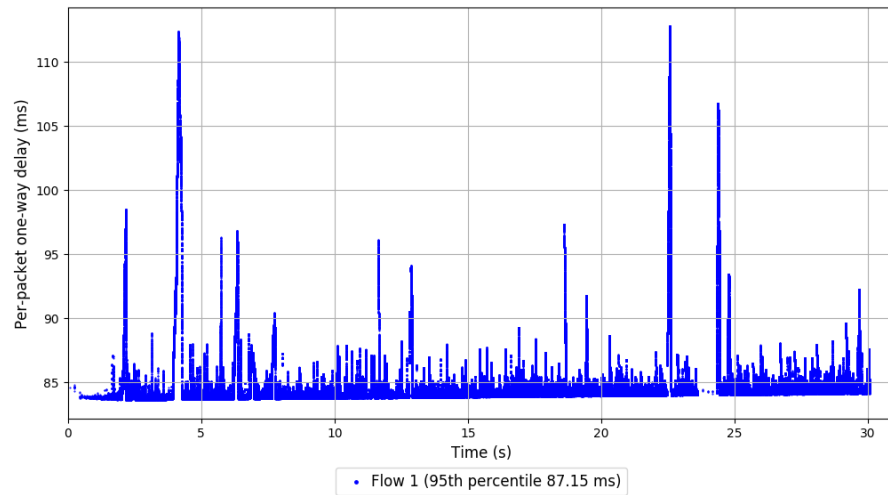
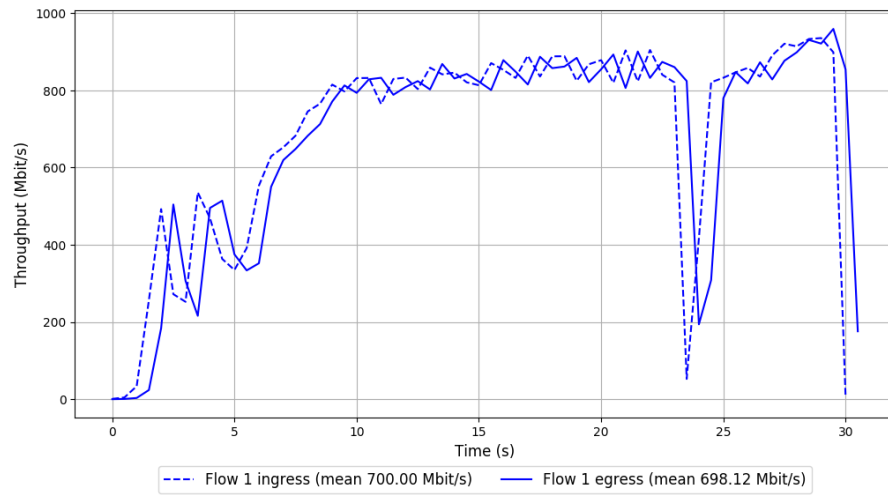


Run 3: Statistics of TCP BBR

Start at: 2020-02-17 23:10:12  
End at: 2020-02-17 23:10:42  
Local clock offset: 3.997 ms  
Remote clock offset: 14.561 ms

# Below is generated by plot.py at 2020-02-18 00:52:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 698.12 Mbit/s  
95th percentile per-packet one-way delay: 87.146 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 698.12 Mbit/s  
95th percentile per-packet one-way delay: 87.146 ms  
Loss rate: 0.27%

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



Run 4: Statistics of TCP BBR

Start at: 2020-02-17 23:45:15

End at: 2020-02-17 23:45:45

Local clock offset: 1.578 ms

Remote clock offset: 6.232 ms

# Below is generated by plot.py at 2020-02-18 00:52:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 589.87 Mbit/s

95th percentile per-packet one-way delay: 133.527 ms

Loss rate: 0.34%

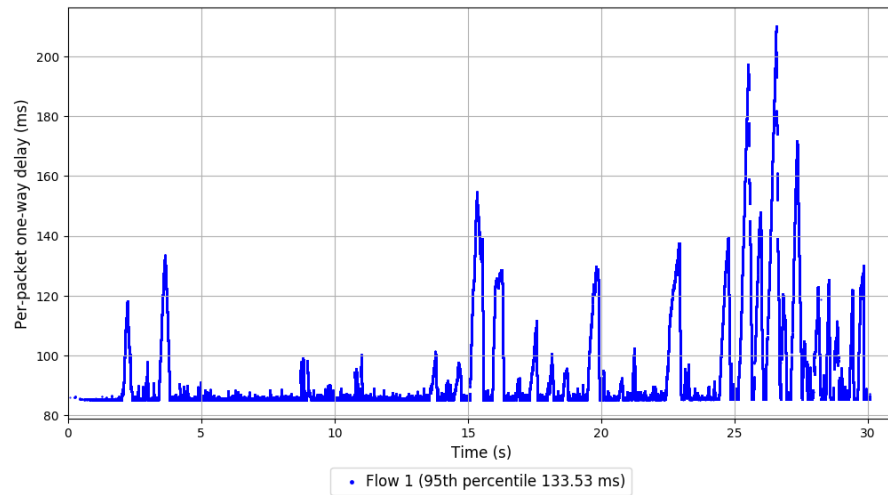
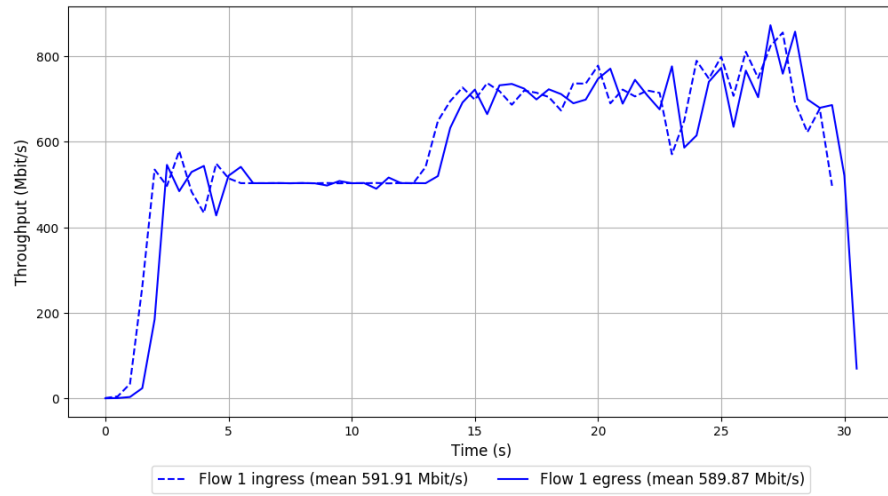
-- Flow 1:

Average throughput: 589.87 Mbit/s

95th percentile per-packet one-way delay: 133.527 ms

Loss rate: 0.34%

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





Run 5: Statistics of TCP BBR

Start at: 2020-02-18 00:20:30

End at: 2020-02-18 00:21:00

Local clock offset: 0.801 ms

Remote clock offset: 1.265 ms

# Below is generated by plot.py at 2020-02-18 00:52:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 602.82 Mbit/s

95th percentile per-packet one-way delay: 161.051 ms

Loss rate: 0.24%

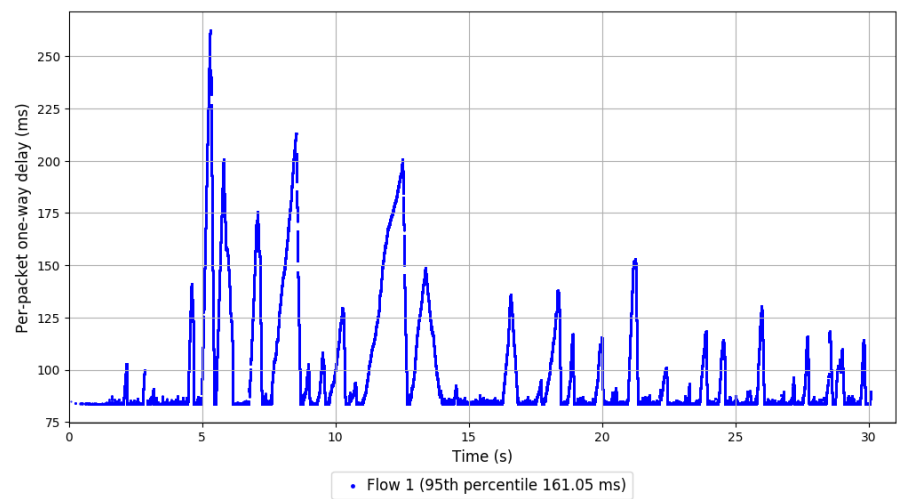
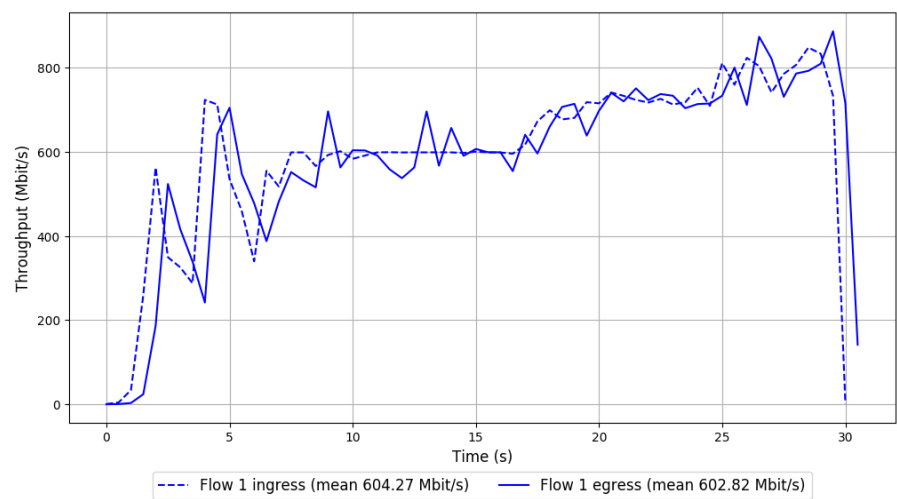
-- Flow 1:

Average throughput: 602.82 Mbit/s

95th percentile per-packet one-way delay: 161.051 ms

Loss rate: 0.24%

Run 5: Report of TCP BBR — Data Link

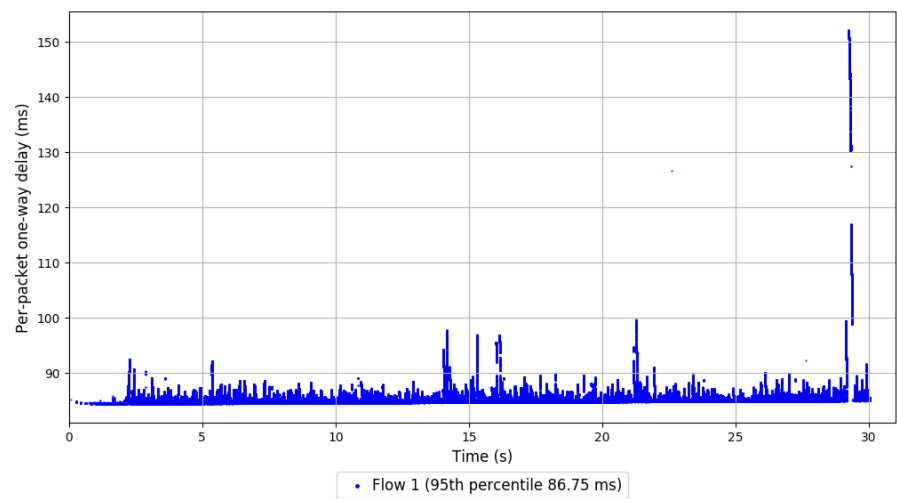
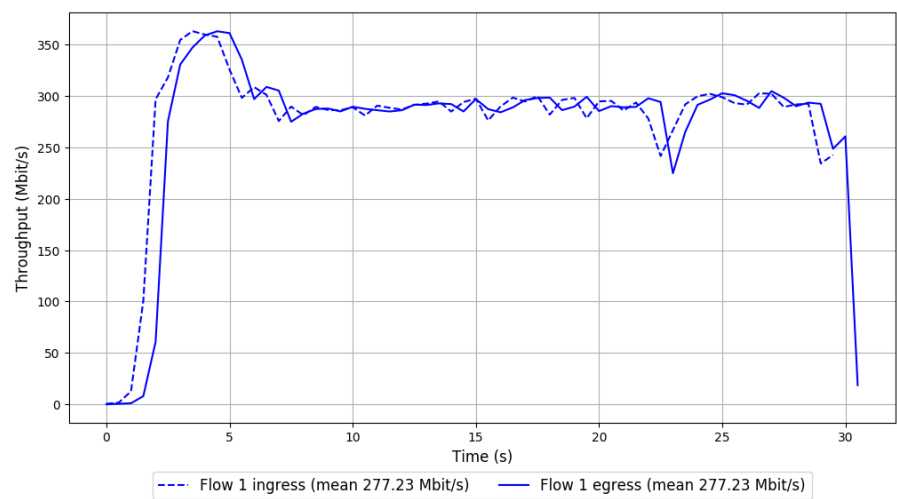


Run 1: Statistics of Copa

Start at: 2020-02-17 21:44:44  
End at: 2020-02-17 21:45:14  
Local clock offset: 3.217 ms  
Remote clock offset: 13.197 ms

# Below is generated by plot.py at 2020-02-18 00:52:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 277.23 Mbit/s  
95th percentile per-packet one-way delay: 86.747 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 277.23 Mbit/s  
95th percentile per-packet one-way delay: 86.747 ms  
Loss rate: 0.00%

Run 1: Report of Copa — Data Link

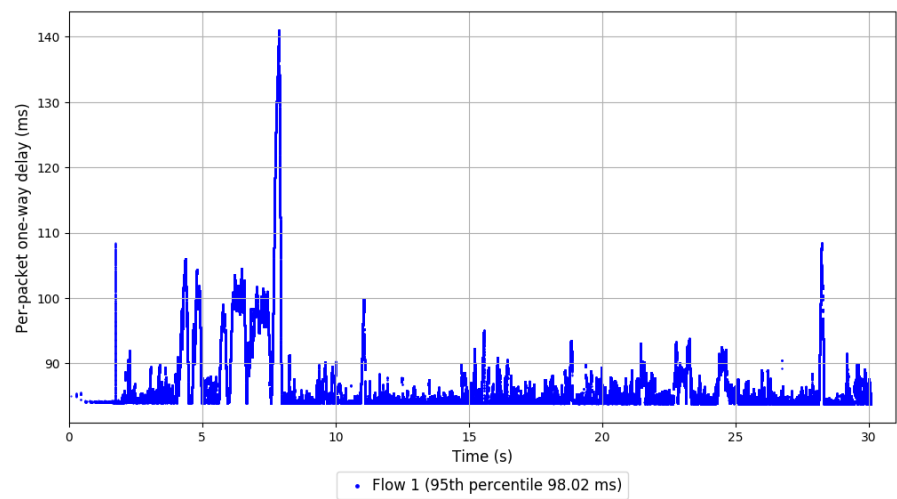
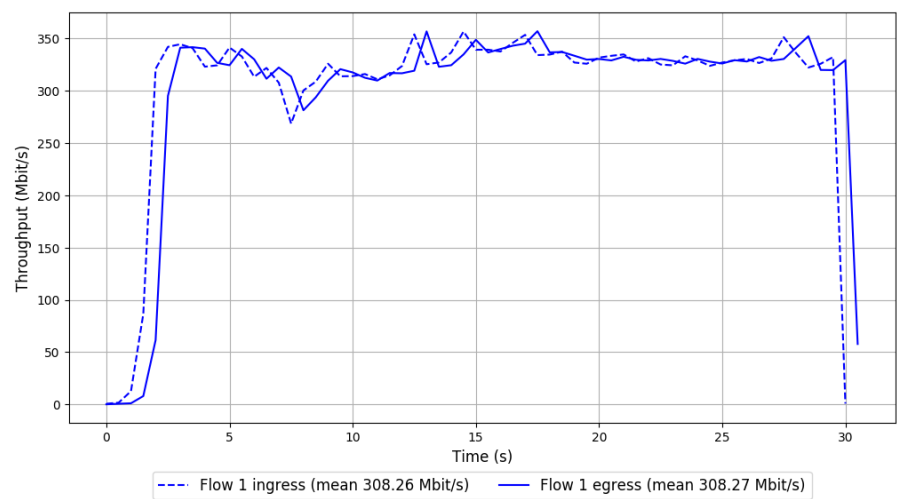


Run 2: Statistics of Copa

Start at: 2020-02-17 22:19:32  
End at: 2020-02-17 22:20:02  
Local clock offset: 4.261 ms  
Remote clock offset: 17.609 ms

# Below is generated by plot.py at 2020-02-18 00:52:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 308.27 Mbit/s  
95th percentile per-packet one-way delay: 98.015 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 308.27 Mbit/s  
95th percentile per-packet one-way delay: 98.015 ms  
Loss rate: 0.00%

Run 2: Report of Copa — Data Link

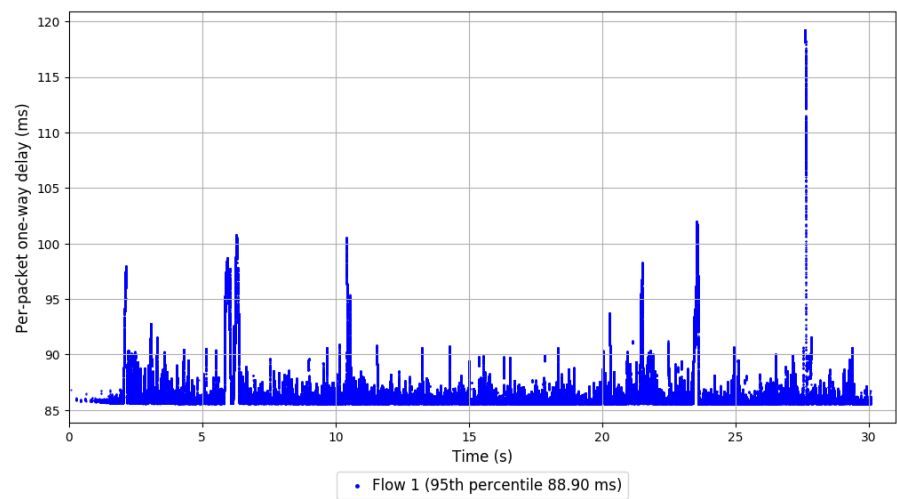
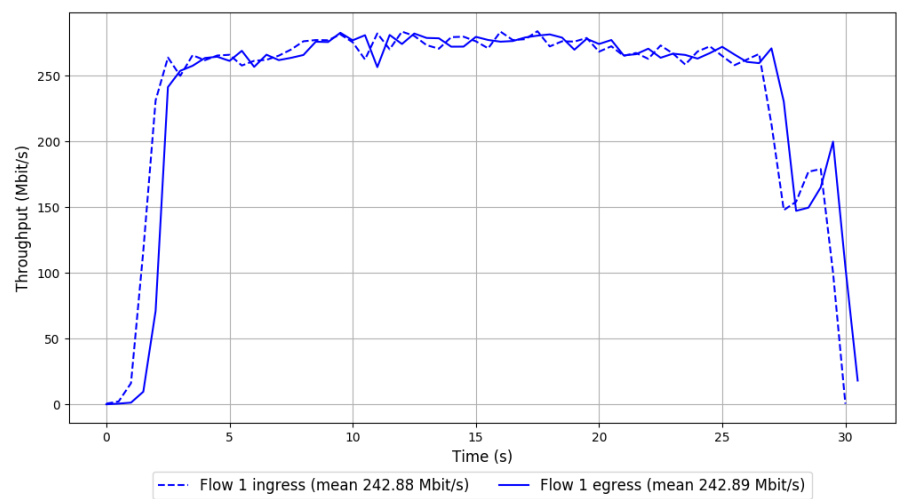


Run 3: Statistics of Copa

Start at: 2020-02-17 22:54:41  
End at: 2020-02-17 22:55:11  
Local clock offset: 2.582 ms  
Remote clock offset: 11.222 ms

# Below is generated by plot.py at 2020-02-18 00:52:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 242.89 Mbit/s  
95th percentile per-packet one-way delay: 88.902 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 242.89 Mbit/s  
95th percentile per-packet one-way delay: 88.902 ms  
Loss rate: 0.00%

Run 3: Report of Copa — Data Link





Run 4: Statistics of Copa

Start at: 2020-02-17 23:30:12

End at: 2020-02-17 23:30:42

Local clock offset: 1.31 ms

Remote clock offset: 5.286 ms

# Below is generated by plot.py at 2020-02-18 00:56:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 238.71 Mbit/s

95th percentile per-packet one-way delay: 97.785 ms

Loss rate: 0.00%

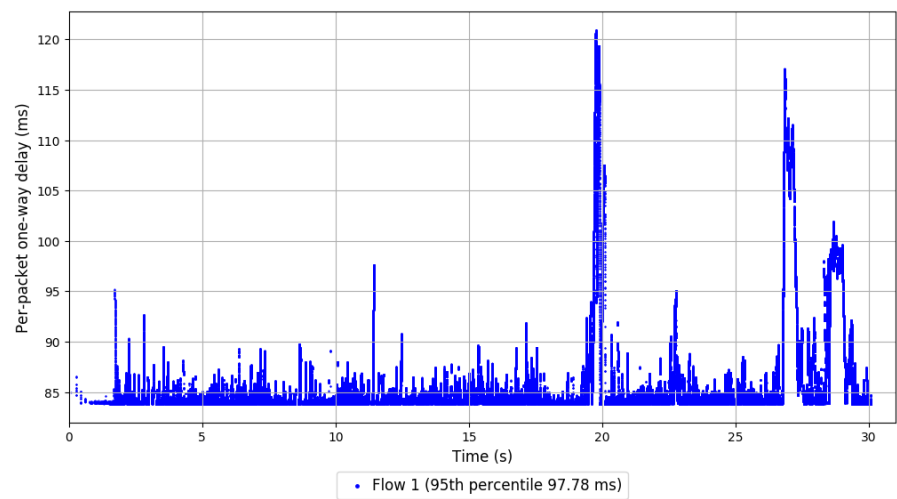
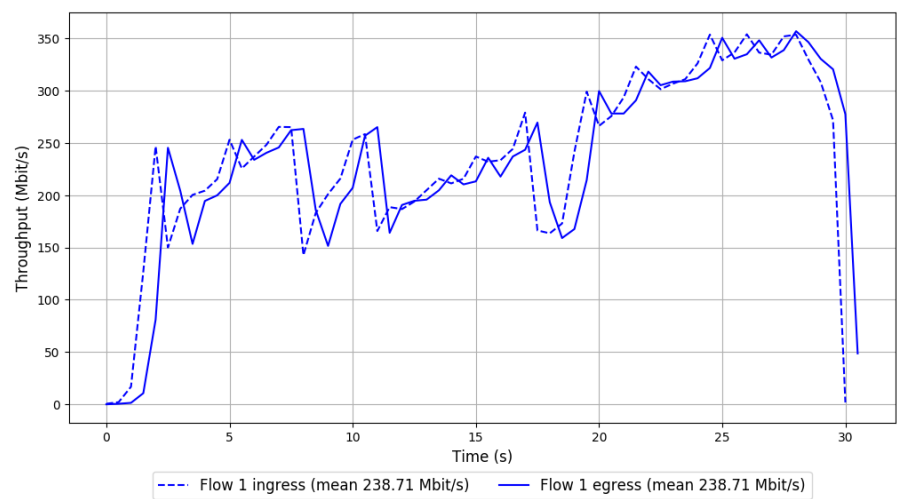
-- Flow 1:

Average throughput: 238.71 Mbit/s

95th percentile per-packet one-way delay: 97.785 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2020-02-18 00:05:17

End at: 2020-02-18 00:05:47

Local clock offset: 0.35 ms

Remote clock offset: 1.448 ms

# Below is generated by plot.py at 2020-02-18 01:01:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 316.34 Mbit/s

95th percentile per-packet one-way delay: 103.699 ms

Loss rate: 0.00%

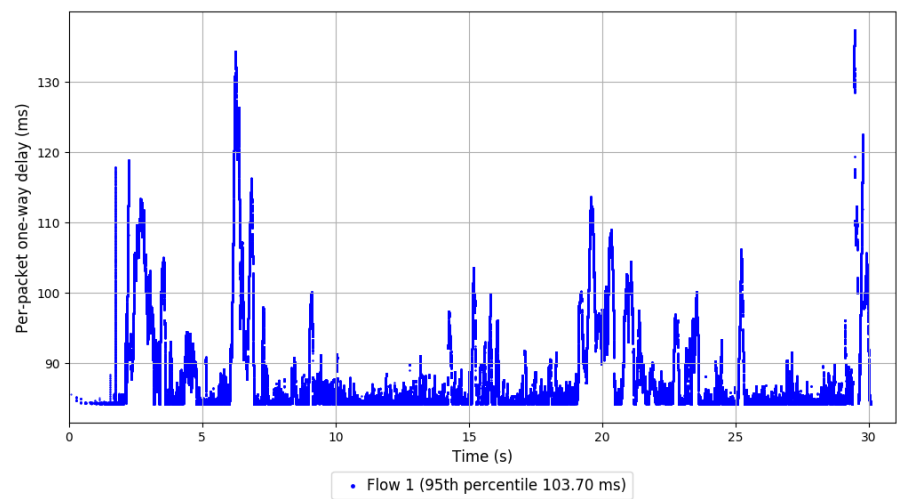
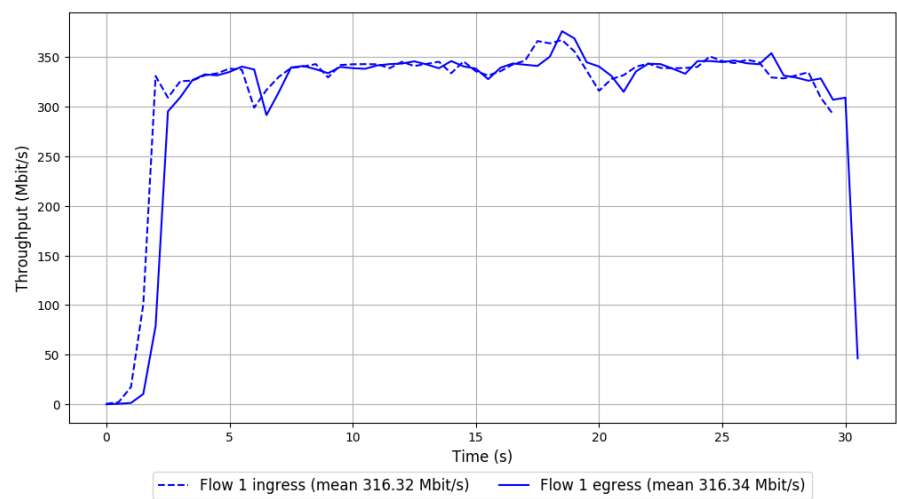
-- Flow 1:

Average throughput: 316.34 Mbit/s

95th percentile per-packet one-way delay: 103.699 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link

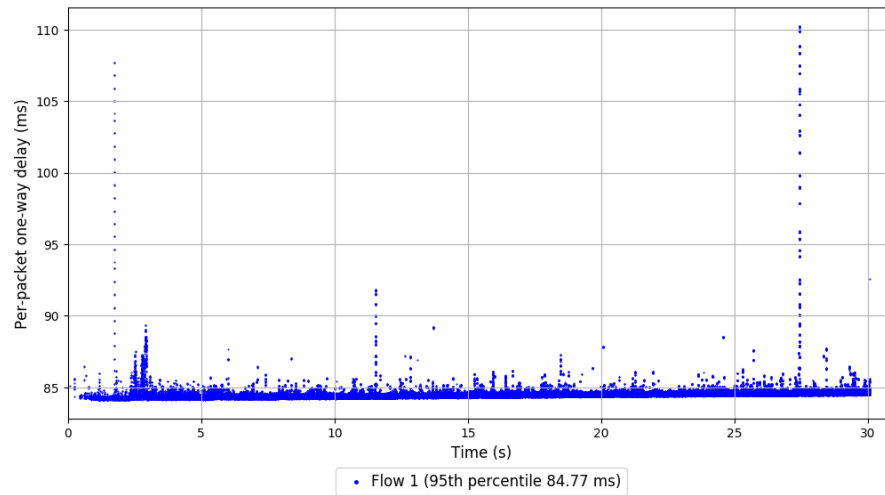
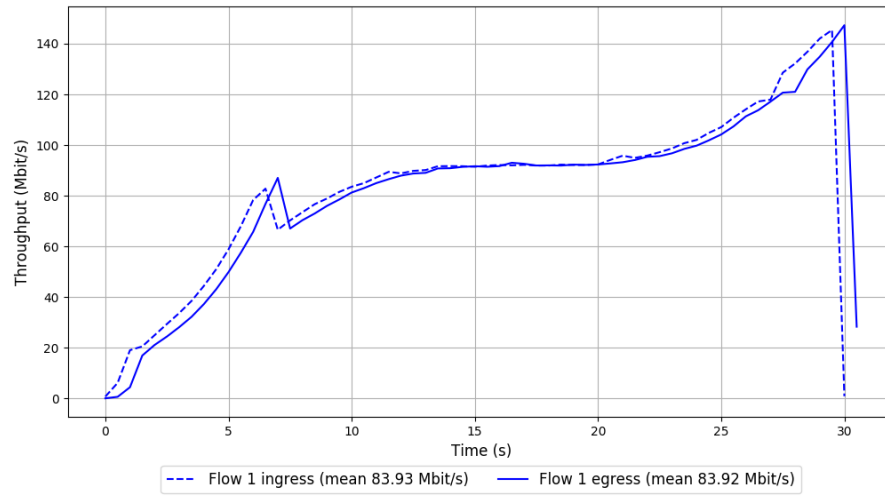


Run 1: Statistics of TCP Cubic

Start at: 2020-02-17 22:02:50  
End at: 2020-02-17 22:03:20  
Local clock offset: 4.973 ms  
Remote clock offset: 18.381 ms

# Below is generated by plot.py at 2020-02-18 01:01:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 83.92 Mbit/s  
95th percentile per-packet one-way delay: 84.765 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 83.92 Mbit/s  
95th percentile per-packet one-way delay: 84.765 ms  
Loss rate: 0.00%

# Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2020-02-17 22:37:47

End at: 2020-02-17 22:38:17

Local clock offset: 6.987 ms

Remote clock offset: 24.63 ms

# Below is generated by plot.py at 2020-02-18 01:01:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 319.02 Mbit/s

95th percentile per-packet one-way delay: 204.543 ms

Loss rate: 0.02%

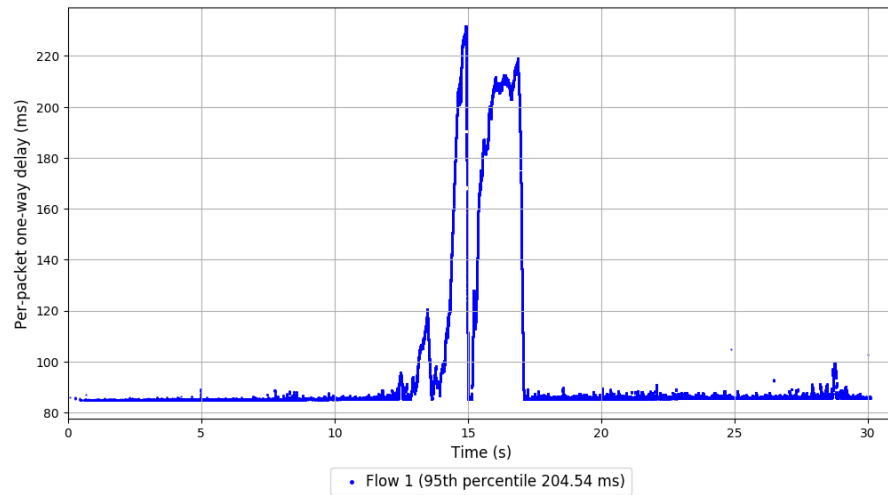
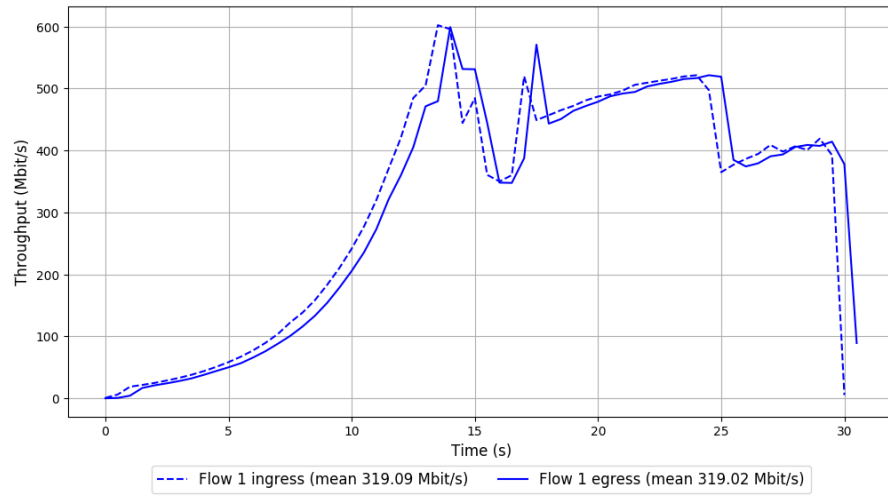
-- Flow 1:

Average throughput: 319.02 Mbit/s

95th percentile per-packet one-way delay: 204.543 ms

Loss rate: 0.02%

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



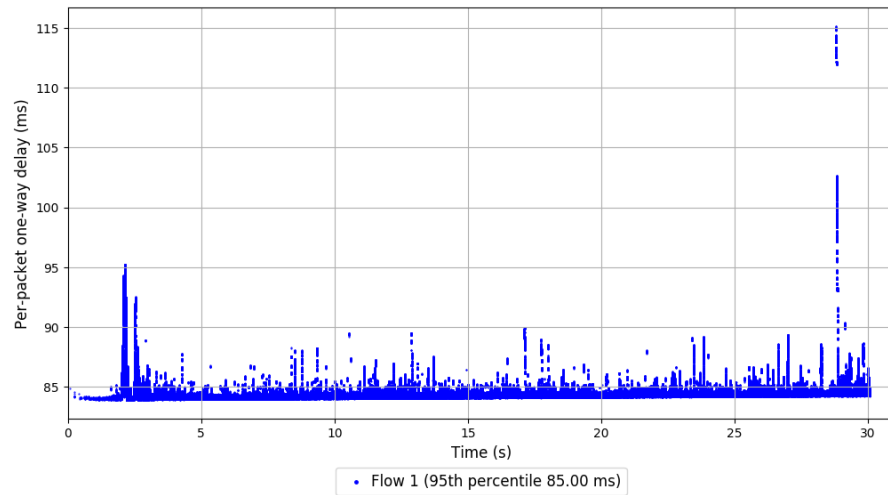
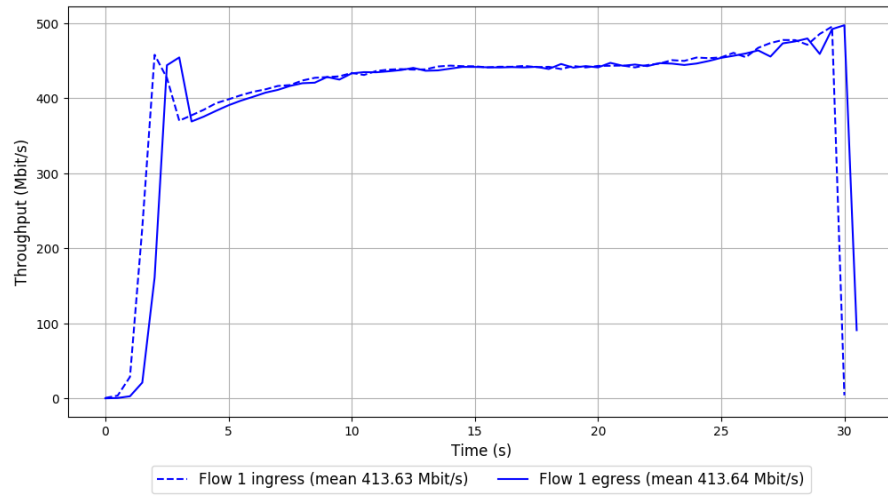


Run 3: Statistics of TCP Cubic

Start at: 2020-02-17 23:13:18  
End at: 2020-02-17 23:13:48  
Local clock offset: 2.667 ms  
Remote clock offset: 10.639 ms

# Below is generated by plot.py at 2020-02-18 01:01:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 413.64 Mbit/s  
95th percentile per-packet one-way delay: 84.997 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 413.64 Mbit/s  
95th percentile per-packet one-way delay: 84.997 ms  
Loss rate: 0.00%

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



Run 4: Statistics of TCP Cubic

Start at: 2020-02-17 23:48:24

End at: 2020-02-17 23:48:54

Local clock offset: 1.1 ms

Remote clock offset: 4.38 ms

# Below is generated by plot.py at 2020-02-18 01:01:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 338.77 Mbit/s

95th percentile per-packet one-way delay: 88.570 ms

Loss rate: 0.00%

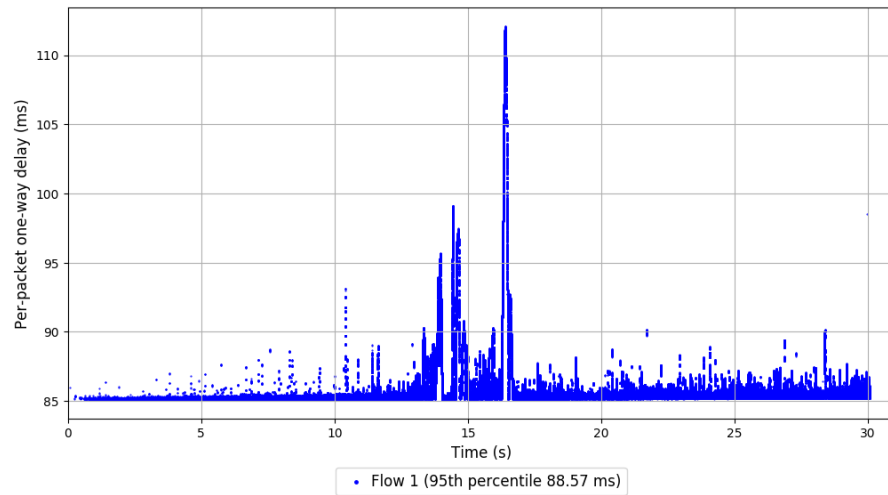
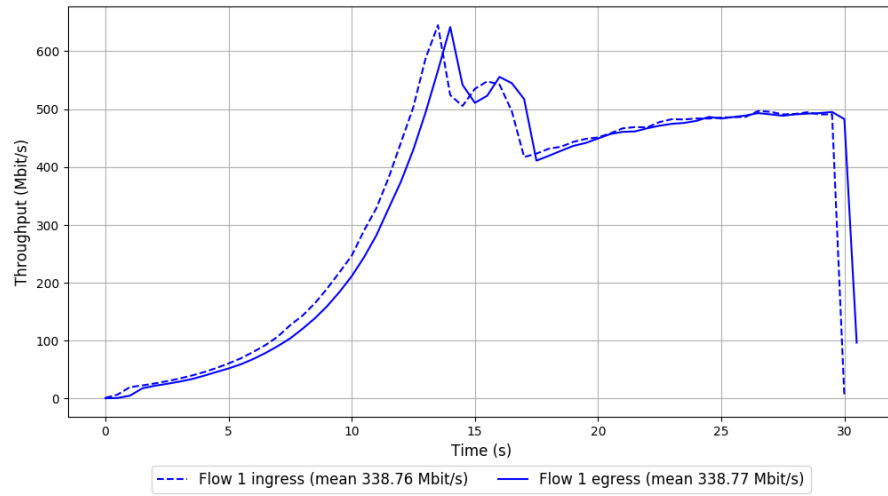
-- Flow 1:

Average throughput: 338.77 Mbit/s

95th percentile per-packet one-way delay: 88.570 ms

Loss rate: 0.00%

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



Run 5: Statistics of TCP Cubic

Start at: 2020-02-18 00:23:39

End at: 2020-02-18 00:24:09

Local clock offset: 0.474 ms

Remote clock offset: 0.945 ms

# Below is generated by plot.py at 2020-02-18 01:01:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 128.32 Mbit/s

95th percentile per-packet one-way delay: 85.394 ms

Loss rate: 0.00%

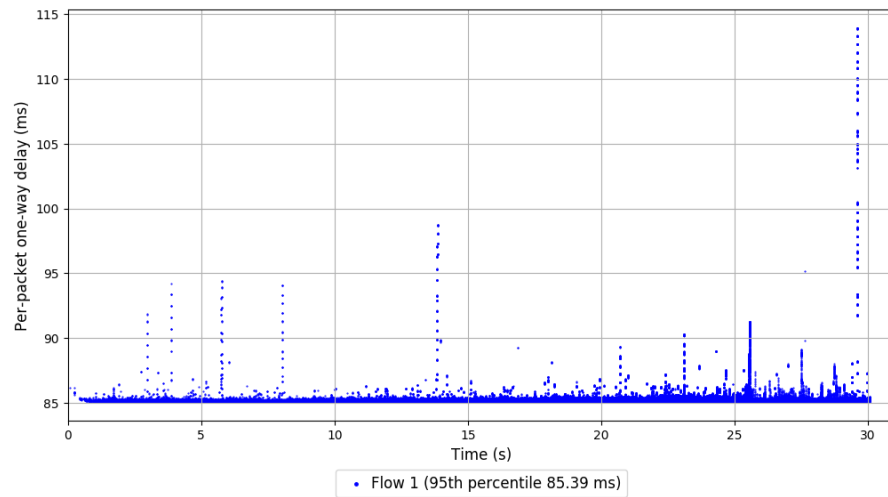
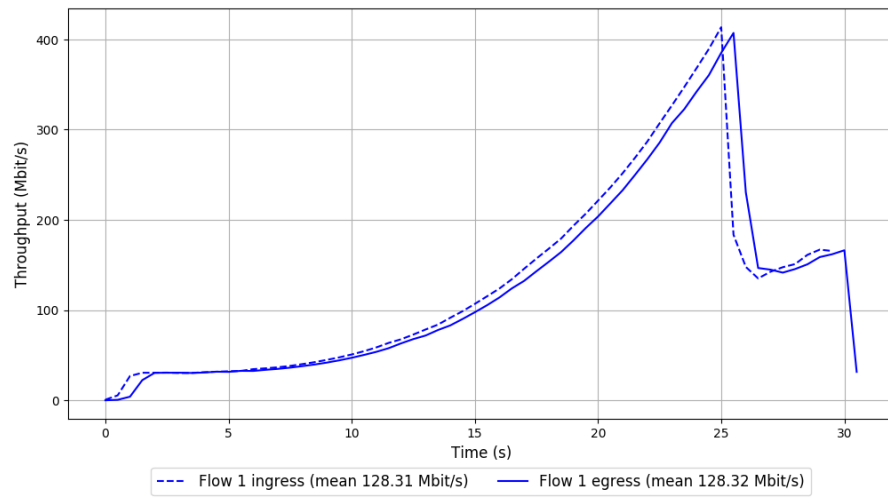
-- Flow 1:

Average throughput: 128.32 Mbit/s

95th percentile per-packet one-way delay: 85.394 ms

Loss rate: 0.00%

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



Run 1: Statistics of FillP

Start at: 2020-02-17 21:29:28

End at: 2020-02-17 21:29:58

Local clock offset: 0.769 ms

Remote clock offset: 2.896 ms

# Below is generated by plot.py at 2020-02-18 01:12:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 693.29 Mbit/s

95th percentile per-packet one-way delay: 111.793 ms

Loss rate: 0.04%

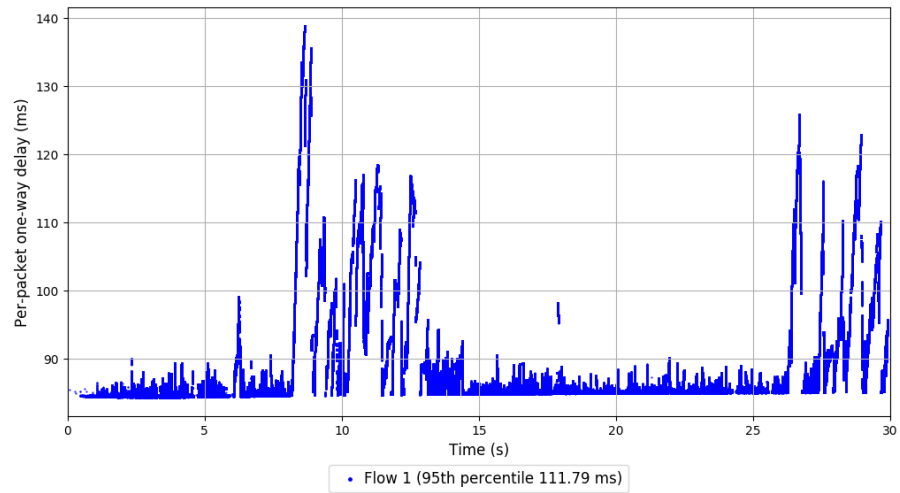
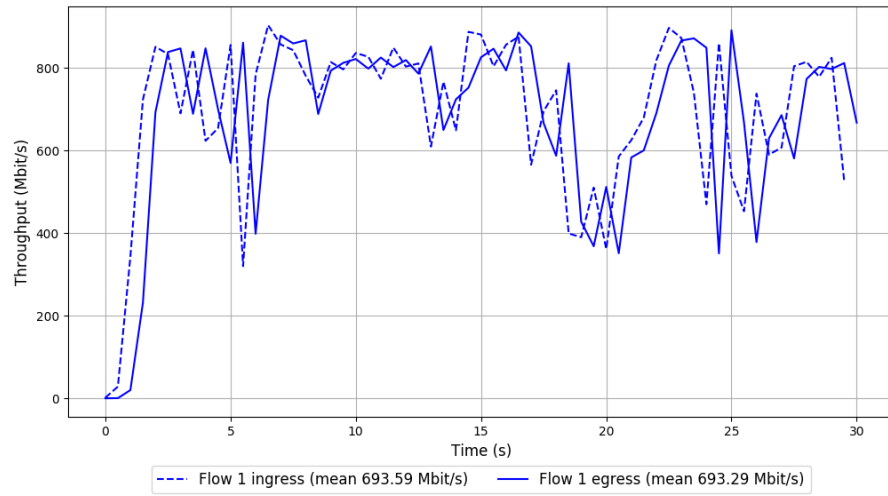
-- Flow 1:

Average throughput: 693.29 Mbit/s

95th percentile per-packet one-way delay: 111.793 ms

Loss rate: 0.04%

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



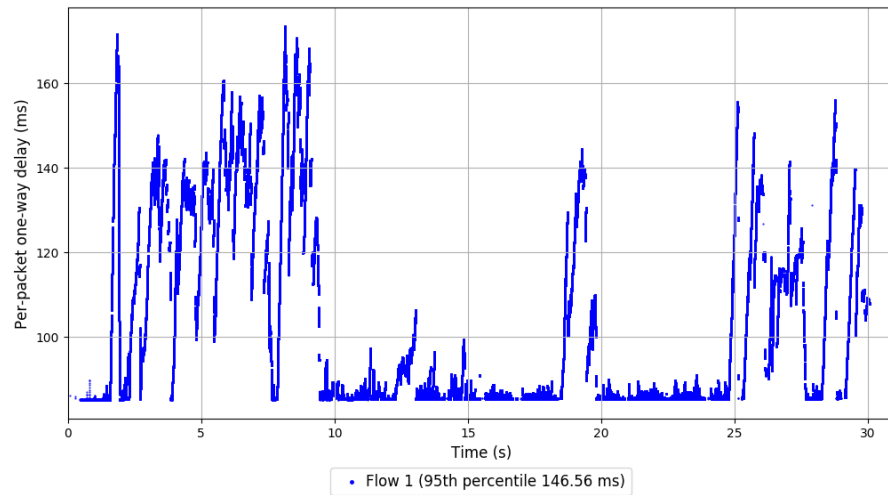
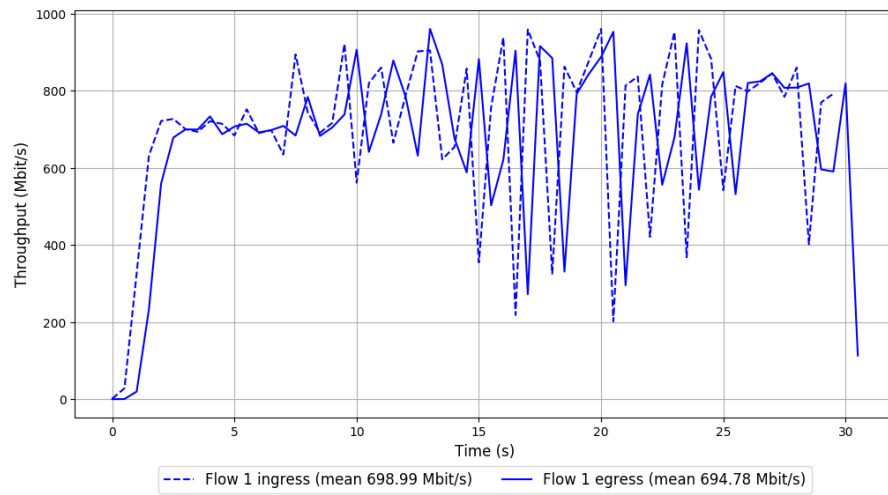


Run 2: Statistics of FillP

Start at: 2020-02-17 22:04:04  
End at: 2020-02-17 22:04:34  
Local clock offset: 4.249 ms  
Remote clock offset: 16.849 ms

# Below is generated by plot.py at 2020-02-18 01:12:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 694.78 Mbit/s  
95th percentile per-packet one-way delay: 146.561 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 694.78 Mbit/s  
95th percentile per-packet one-way delay: 146.561 ms  
Loss rate: 0.60%

## Run 2: Report of FillP — Data Link

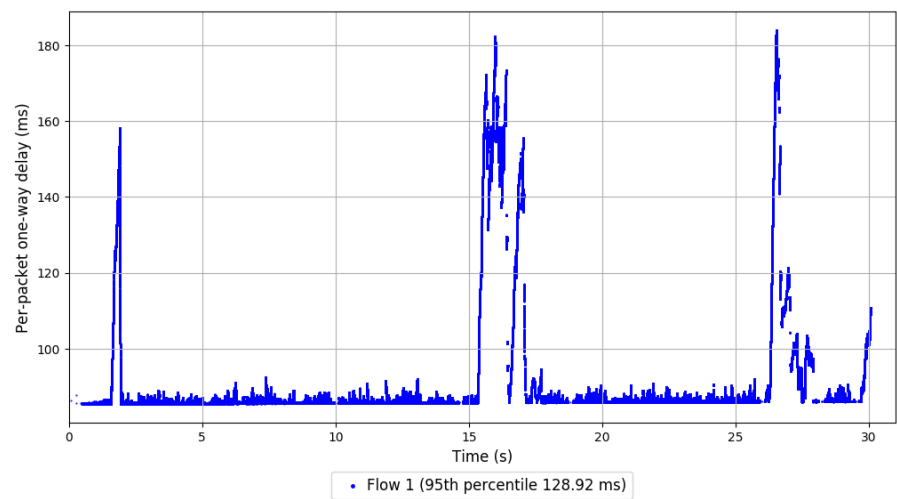
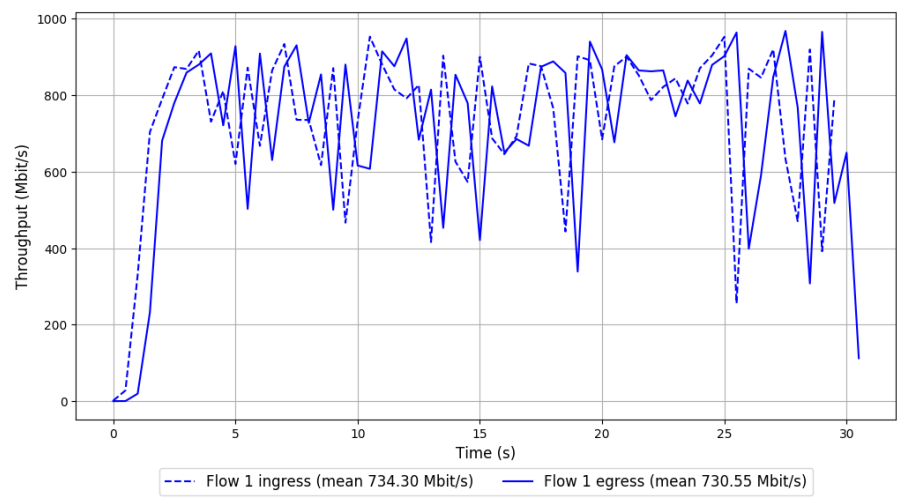


Run 3: Statistics of FillP

Start at: 2020-02-17 22:39:13  
End at: 2020-02-17 22:39:43  
Local clock offset: 5.765 ms  
Remote clock offset: 21.543 ms

# Below is generated by plot.py at 2020-02-18 01:16:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 730.55 Mbit/s  
95th percentile per-packet one-way delay: 128.922 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 730.55 Mbit/s  
95th percentile per-packet one-way delay: 128.922 ms  
Loss rate: 0.51%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2020-02-17 23:14:50

End at: 2020-02-17 23:15:20

Local clock offset: 2.298 ms

Remote clock offset: 9.497 ms

# Below is generated by plot.py at 2020-02-18 01:18:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 715.77 Mbit/s

95th percentile per-packet one-way delay: 137.199 ms

Loss rate: 0.32%

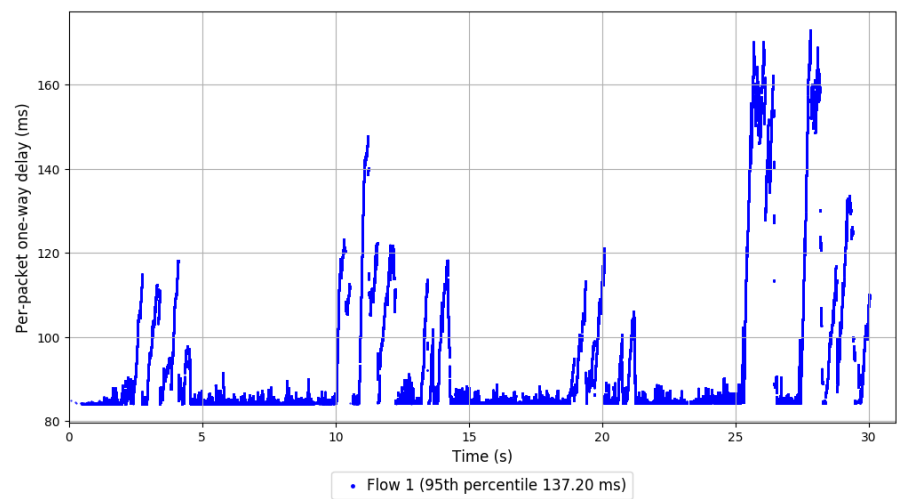
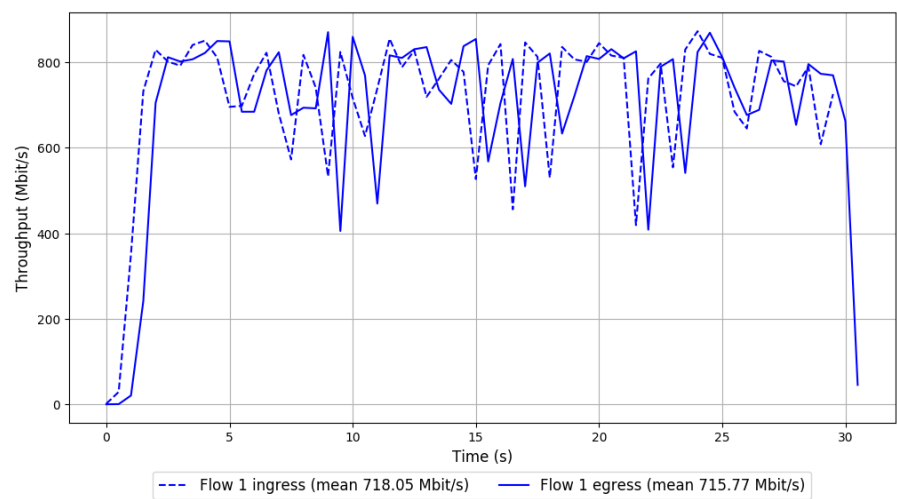
-- Flow 1:

Average throughput: 715.77 Mbit/s

95th percentile per-packet one-way delay: 137.199 ms

Loss rate: 0.32%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2020-02-17 23:49:52

End at: 2020-02-17 23:50:22

Local clock offset: 0.983 ms

Remote clock offset: 3.82 ms

# Below is generated by plot.py at 2020-02-18 01:21:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 789.00 Mbit/s

95th percentile per-packet one-way delay: 131.225 ms

Loss rate: 0.08%

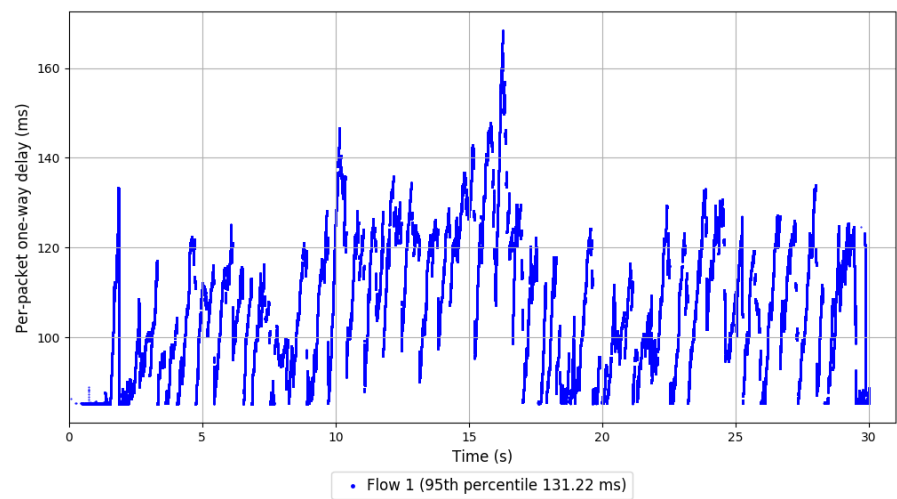
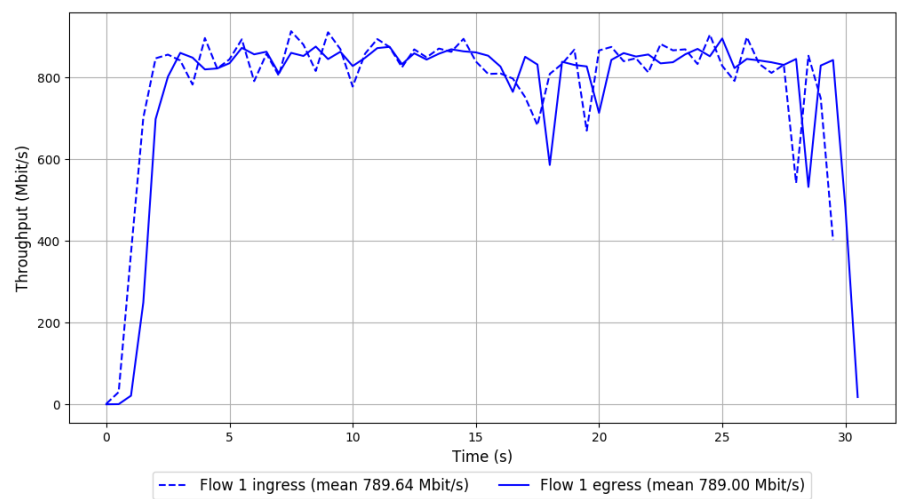
-- Flow 1:

Average throughput: 789.00 Mbit/s

95th percentile per-packet one-way delay: 131.225 ms

Loss rate: 0.08%

Run 5: Report of FillP — Data Link





Run 1: Statistics of FillP-Sheep

Start at: 2020-02-17 21:37:34

End at: 2020-02-17 21:38:04

Local clock offset: 1.593 ms

Remote clock offset: 6.635 ms

# Below is generated by plot.py at 2020-02-18 01:22:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 758.36 Mbit/s

95th percentile per-packet one-way delay: 97.271 ms

Loss rate: 0.19%

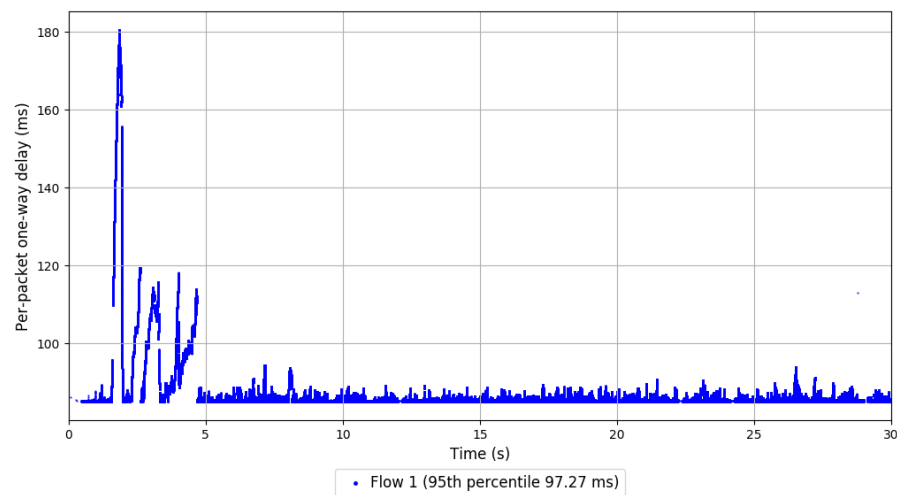
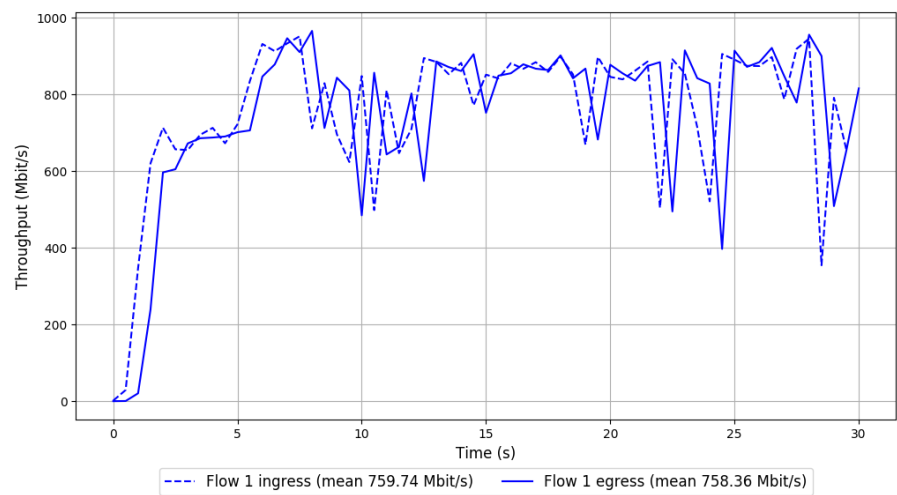
-- Flow 1:

Average throughput: 758.36 Mbit/s

95th percentile per-packet one-way delay: 97.271 ms

Loss rate: 0.19%

Run 1: Report of FillP-Sheep — Data Link

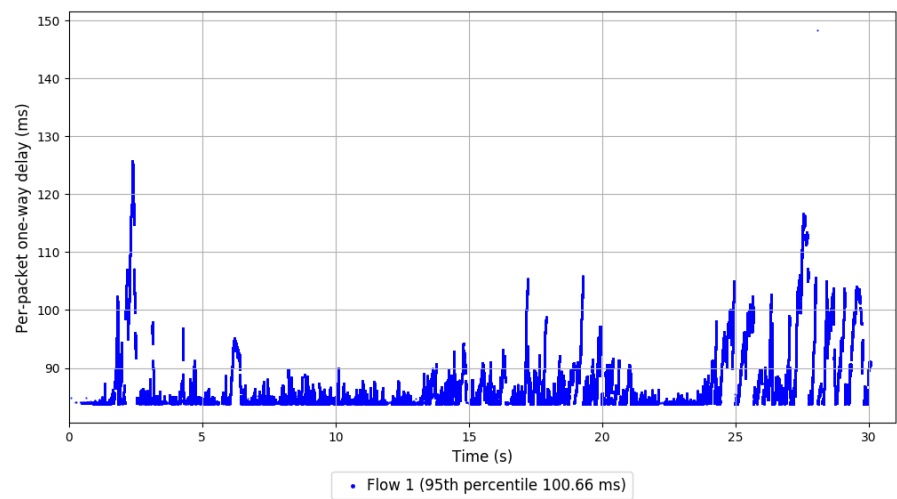
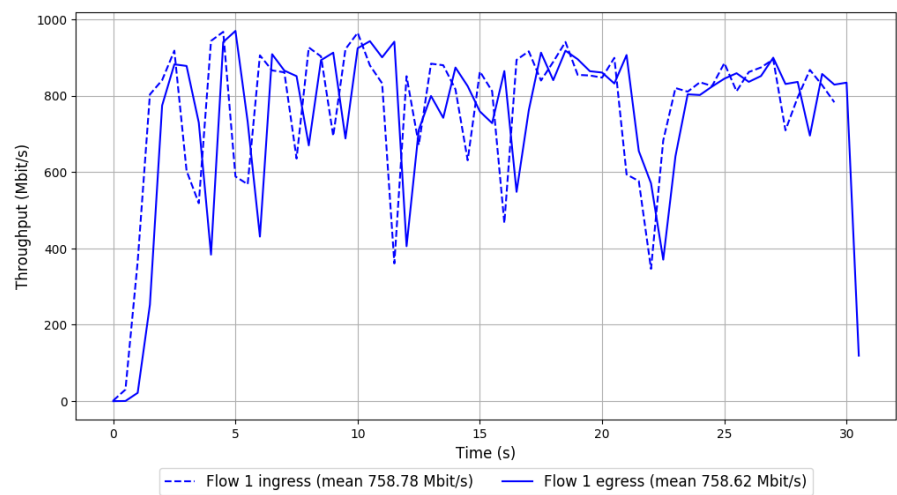


Run 2: Statistics of FillP-Sheep

Start at: 2020-02-17 22:12:20  
End at: 2020-02-17 22:12:50  
Local clock offset: 3.665 ms  
Remote clock offset: 14.672 ms

# Below is generated by plot.py at 2020-02-18 01:22:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 758.62 Mbit/s  
95th percentile per-packet one-way delay: 100.655 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 758.62 Mbit/s  
95th percentile per-packet one-way delay: 100.655 ms  
Loss rate: 0.02%

Run 2: Report of FillP-Sheep — Data Link

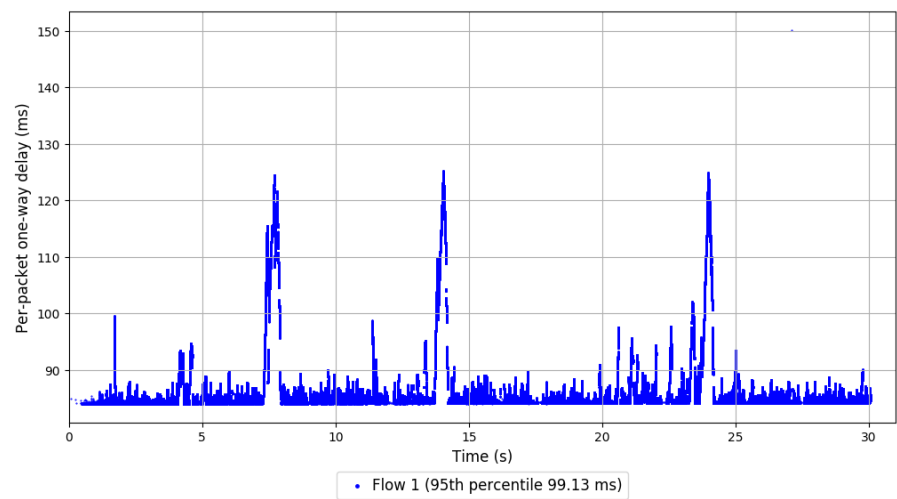
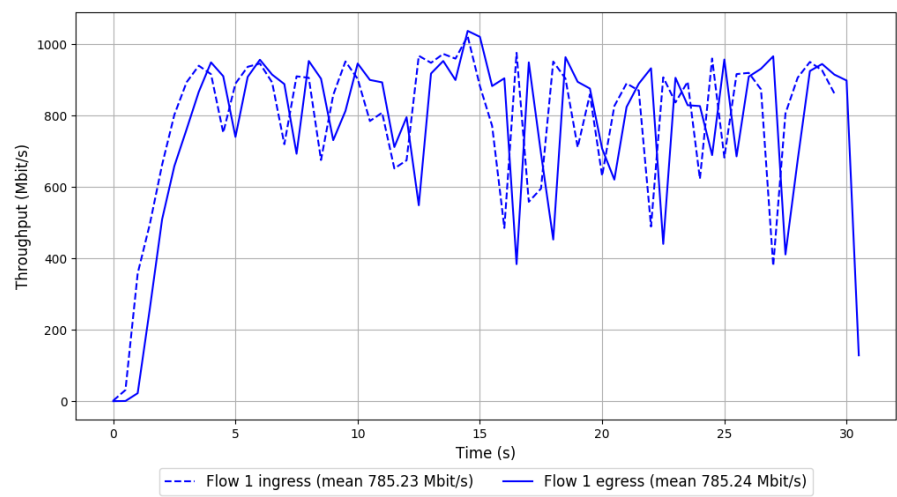


Run 3: Statistics of FillP-Sheep

Start at: 2020-02-17 22:47:27  
End at: 2020-02-17 22:47:57  
Local clock offset: 3.142 ms  
Remote clock offset: 12.513 ms

# Below is generated by plot.py at 2020-02-18 01:25:21  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 785.24 Mbit/s  
95th percentile per-packet one-way delay: 99.130 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 785.24 Mbit/s  
95th percentile per-packet one-way delay: 99.130 ms  
Loss rate: 0.00%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2020-02-17 23:23:04

End at: 2020-02-17 23:23:34

Local clock offset: 1.392 ms

Remote clock offset: 5.725 ms

# Below is generated by plot.py at 2020-02-18 01:32:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 641.03 Mbit/s

95th percentile per-packet one-way delay: 95.499 ms

Loss rate: 0.02%

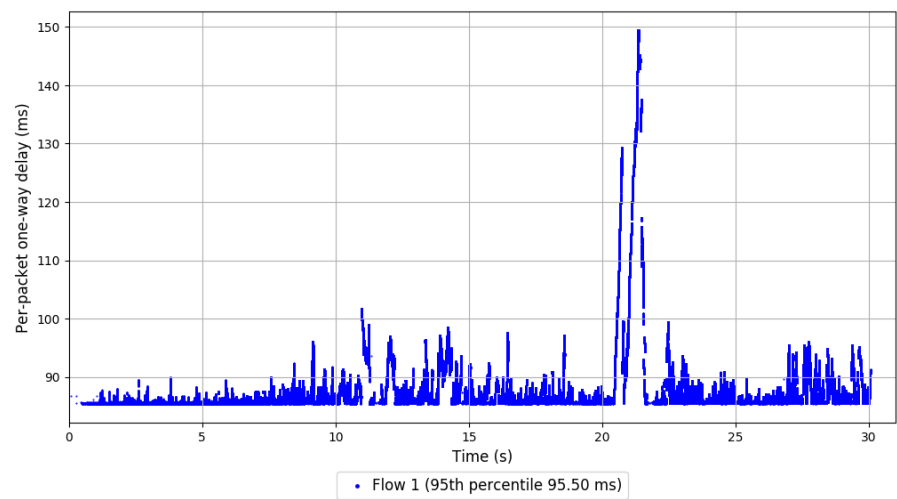
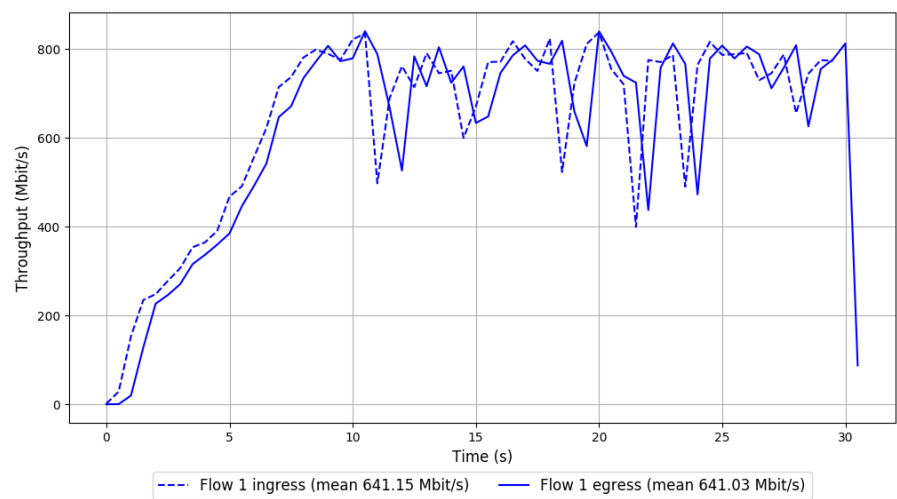
-- Flow 1:

Average throughput: 641.03 Mbit/s

95th percentile per-packet one-way delay: 95.499 ms

Loss rate: 0.02%

Run 4: Report of FillP-Sheep — Data Link





Run 5: Statistics of FillP-Sheep

Start at: 2020-02-17 23:58:12

End at: 2020-02-17 23:58:42

Local clock offset: 0.825 ms

Remote clock offset: 1.912 ms

# Below is generated by plot.py at 2020-02-18 01:35:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 730.18 Mbit/s

95th percentile per-packet one-way delay: 106.588 ms

Loss rate: 0.02%

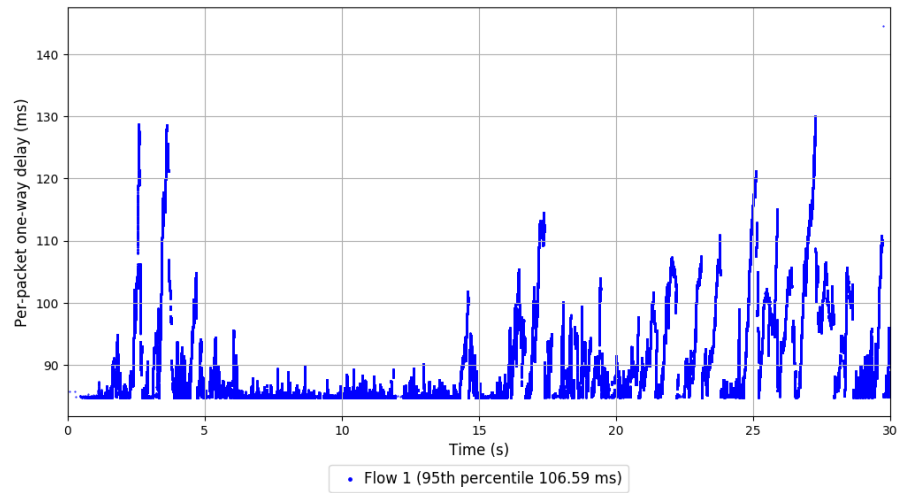
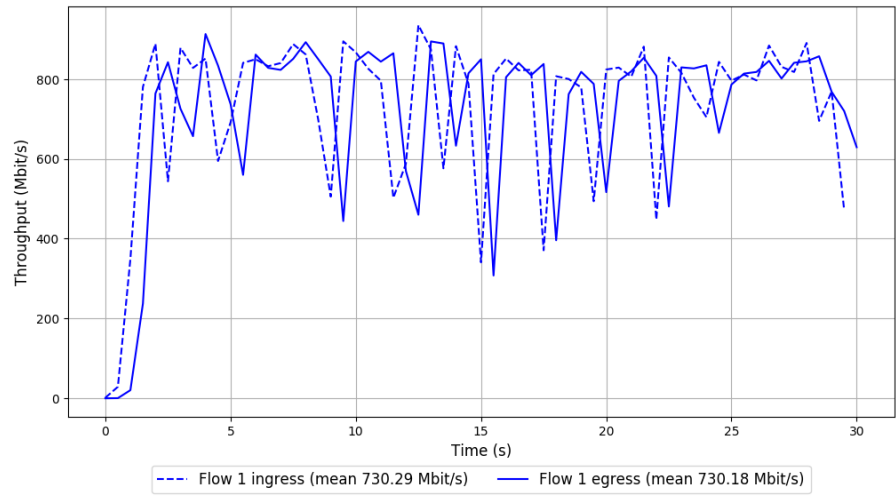
-- Flow 1:

Average throughput: 730.18 Mbit/s

95th percentile per-packet one-way delay: 106.588 ms

Loss rate: 0.02%

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

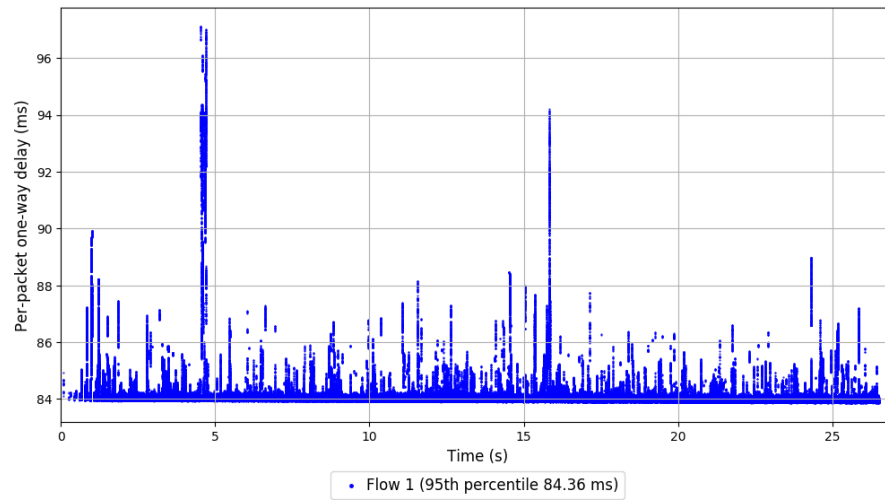
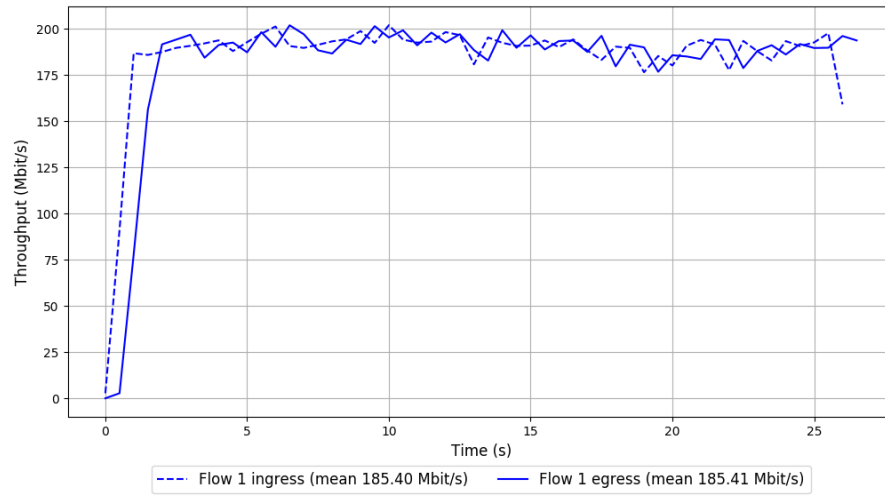


```
Run 1: Statistics of Indigo

Start at: 2020-02-17 21:49:34
End at: 2020-02-17 21:50:04
Local clock offset: 2.29 ms
Remote clock offset: 9.741 ms

# Below is generated by plot.py at 2020-02-18 01:35:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 185.41 Mbit/s
95th percentile per-packet one-way delay: 84.362 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 185.41 Mbit/s
95th percentile per-packet one-way delay: 84.362 ms
Loss rate: 0.00%
```

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

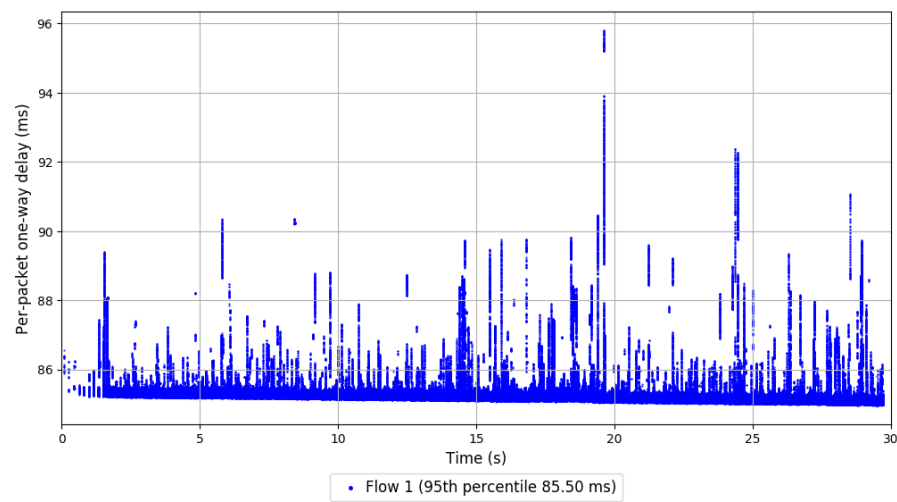
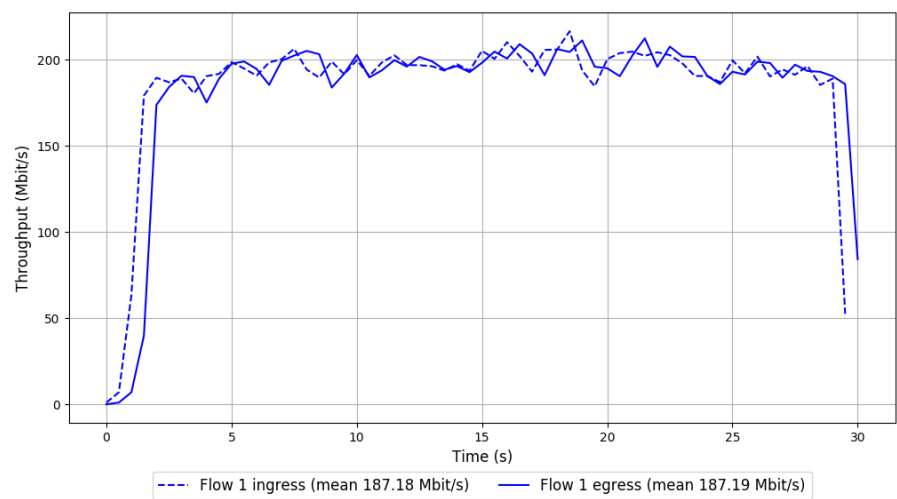


Run 2: Statistics of Indigo

Start at: 2020-02-17 22:24:22  
End at: 2020-02-17 22:24:52  
Local clock offset: 5.162 ms  
Remote clock offset: 20.629 ms

# Below is generated by plot.py at 2020-02-18 01:35:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 187.19 Mbit/s  
95th percentile per-packet one-way delay: 85.495 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 187.19 Mbit/s  
95th percentile per-packet one-way delay: 85.495 ms  
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

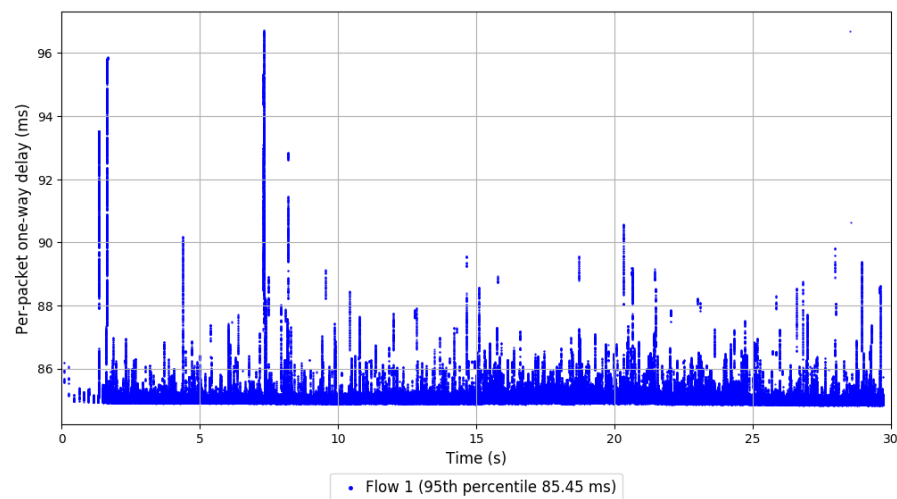
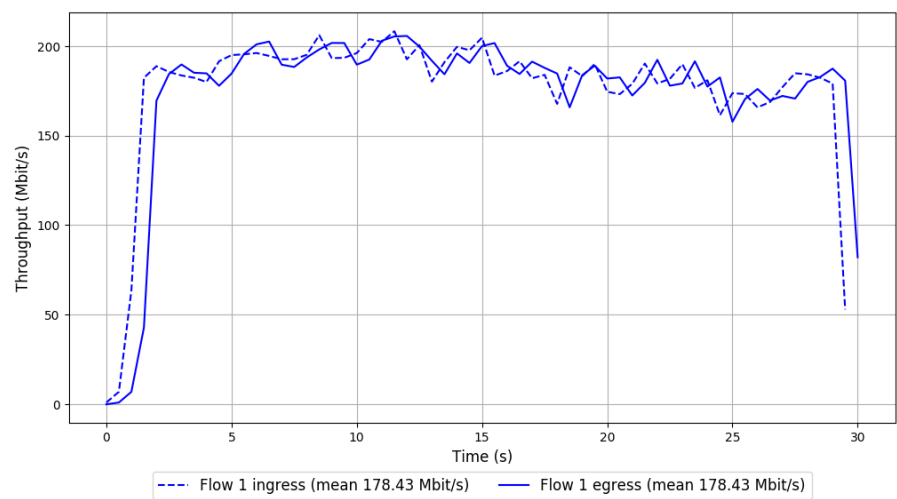


Run 3: Statistics of Indigo

Start at: 2020-02-17 22:59:33  
End at: 2020-02-17 23:00:03  
Local clock offset: 3.196 ms  
Remote clock offset: 11.827 ms

# Below is generated by plot.py at 2020-02-18 01:35:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 178.43 Mbit/s  
95th percentile per-packet one-way delay: 85.454 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 178.43 Mbit/s  
95th percentile per-packet one-way delay: 85.454 ms  
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link





Run 4: Statistics of Indigo

Start at: 2020-02-17 23:34:55

End at: 2020-02-17 23:35:25

Local clock offset: 1.722 ms

Remote clock offset: 5.696 ms

# Below is generated by plot.py at 2020-02-18 01:35:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 177.16 Mbit/s

95th percentile per-packet one-way delay: 85.200 ms

Loss rate: 0.00%

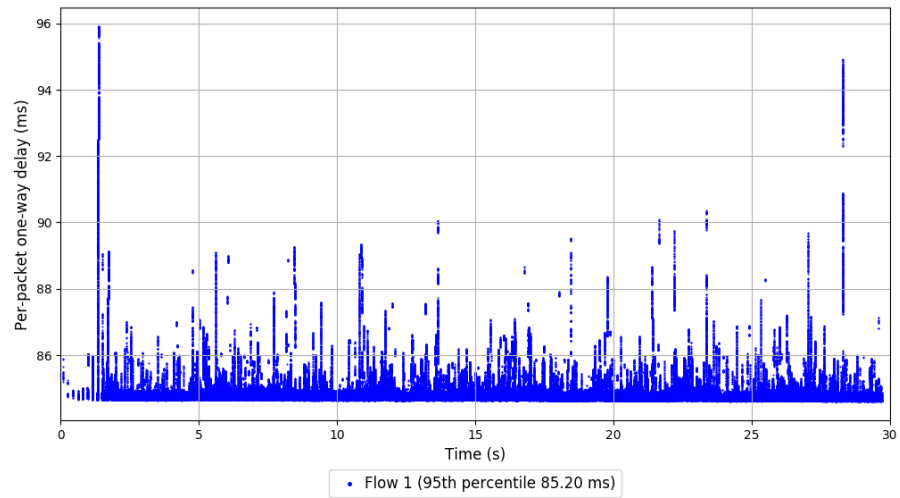
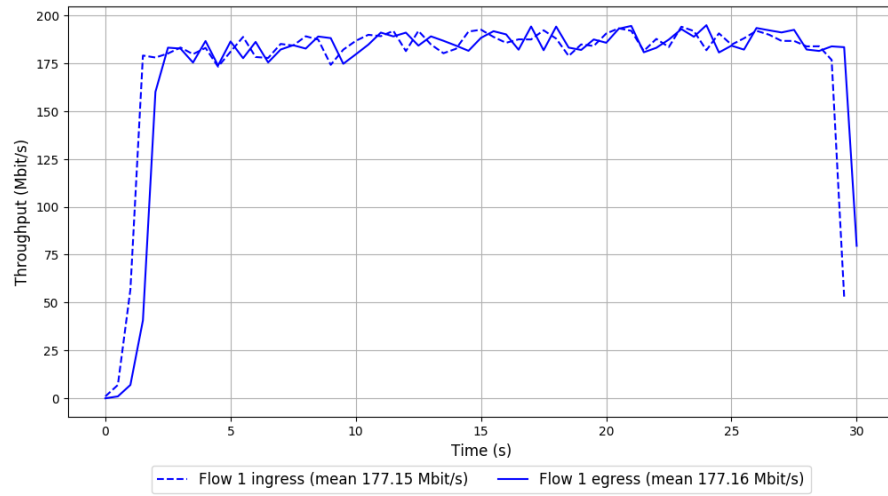
-- Flow 1:

Average throughput: 177.16 Mbit/s

95th percentile per-packet one-way delay: 85.200 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo

Start at: 2020-02-18 00:10:04

End at: 2020-02-18 00:10:34

Local clock offset: 0.377 ms

Remote clock offset: 1.407 ms

# Below is generated by plot.py at 2020-02-18 01:35:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 172.30 Mbit/s

95th percentile per-packet one-way delay: 84.301 ms

Loss rate: 0.00%

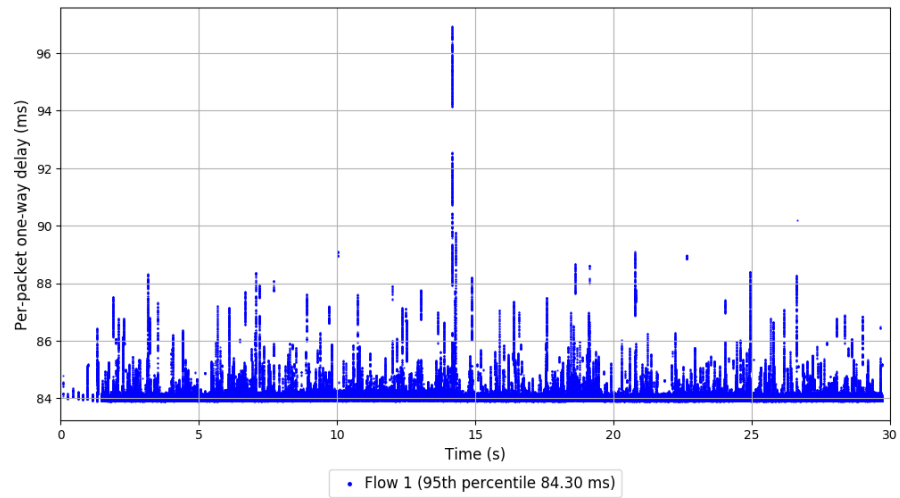
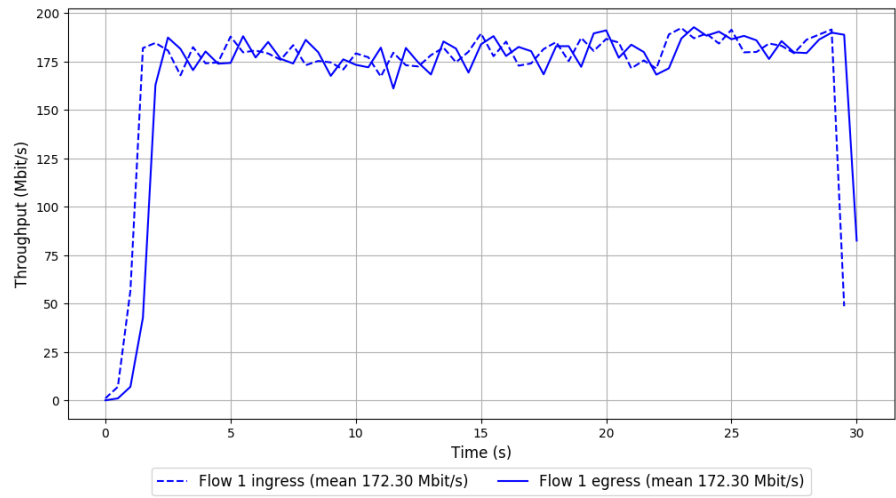
-- Flow 1:

Average throughput: 172.30 Mbit/s

95th percentile per-packet one-way delay: 84.301 ms

Loss rate: 0.00%

## Run 5: Report of Indigo — Data Link

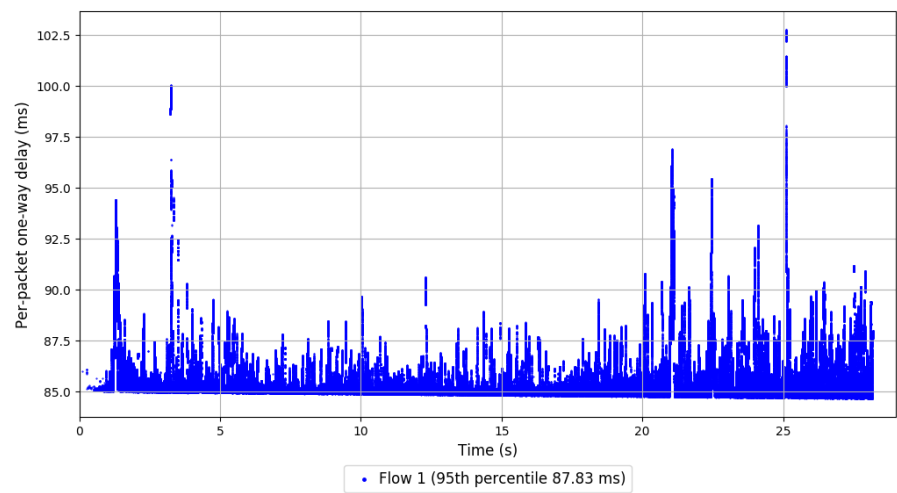
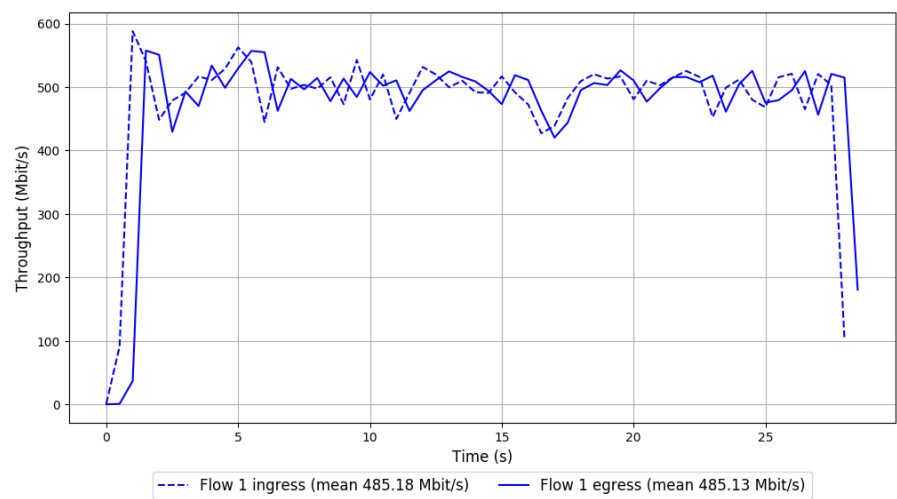


Run 1: Statistics of Indigo-MusesC3

Start at: 2020-02-17 21:56:38  
End at: 2020-02-17 21:57:08  
Local clock offset: 3.329 ms  
Remote clock offset: 14.296 ms

# Below is generated by plot.py at 2020-02-18 01:36:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 485.13 Mbit/s  
95th percentile per-packet one-way delay: 87.832 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 485.13 Mbit/s  
95th percentile per-packet one-way delay: 87.832 ms  
Loss rate: 0.01%

Run 1: Report of Indigo-MusesC3 — Data Link

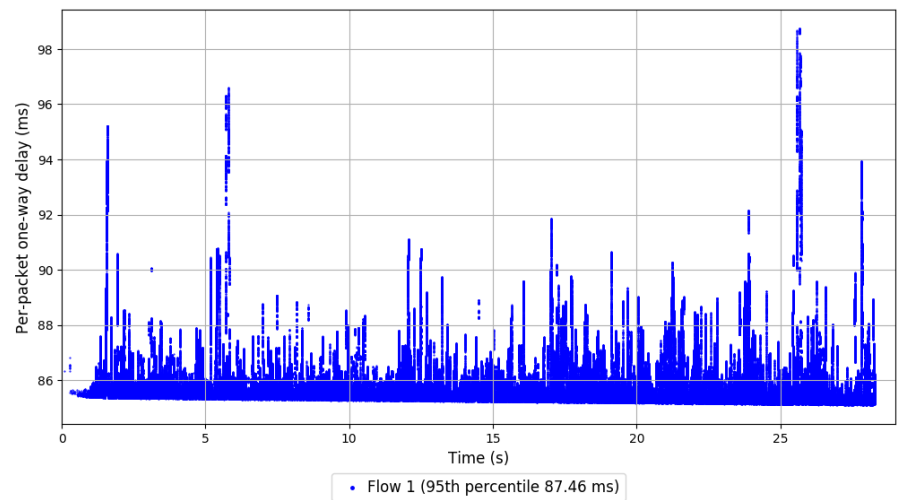
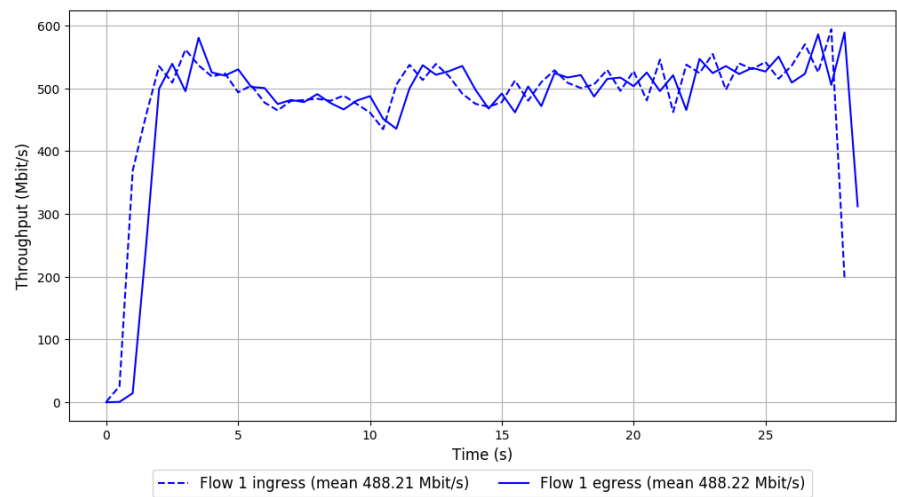


Run 2: Statistics of Indigo-MusesC3

Start at: 2020-02-17 22:31:34  
End at: 2020-02-17 22:32:04  
Local clock offset: 6.726 ms  
Remote clock offset: 26.111 ms

# Below is generated by plot.py at 2020-02-18 01:37:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 488.22 Mbit/s  
95th percentile per-packet one-way delay: 87.458 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 488.22 Mbit/s  
95th percentile per-packet one-way delay: 87.458 ms  
Loss rate: 0.00%

Run 2: Report of Indigo-MusesC3 — Data Link



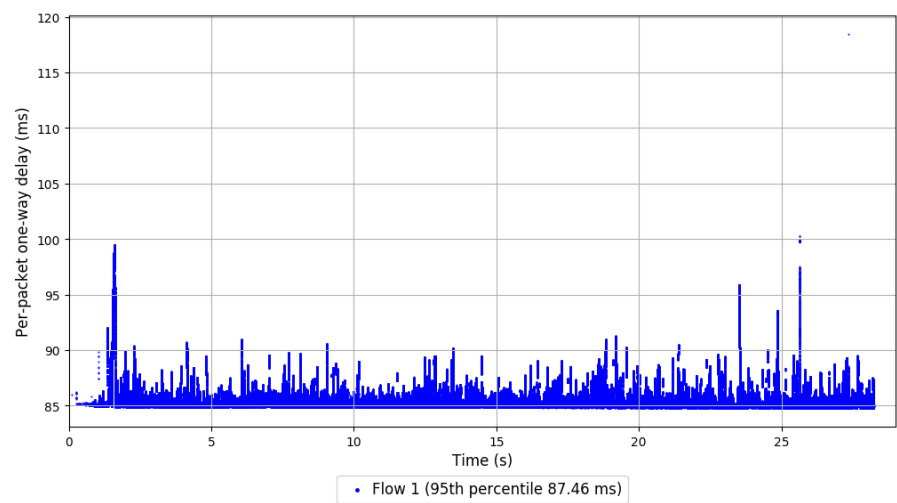
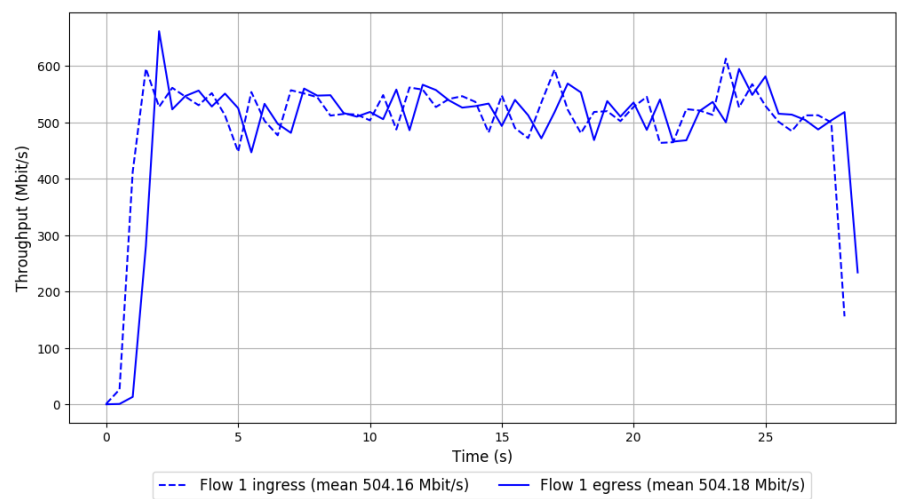


Run 3: Statistics of Indigo-MusesC3

Start at: 2020-02-17 23:07:05  
End at: 2020-02-17 23:07:35  
Local clock offset: 3.37 ms  
Remote clock offset: 13.893 ms

# Below is generated by plot.py at 2020-02-18 01:39:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 504.18 Mbit/s  
95th percentile per-packet one-way delay: 87.464 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 504.18 Mbit/s  
95th percentile per-packet one-way delay: 87.464 ms  
Loss rate: 0.00%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2020-02-17 23:42:12

End at: 2020-02-17 23:42:42

Local clock offset: 1.623 ms

Remote clock offset: 6.648 ms

# Below is generated by plot.py at 2020-02-18 01:40:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 485.83 Mbit/s

95th percentile per-packet one-way delay: 97.347 ms

Loss rate: 0.00%

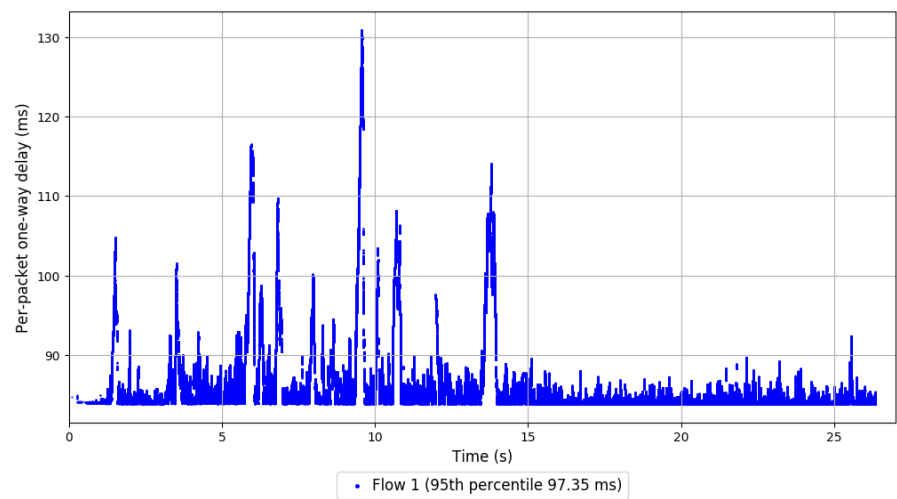
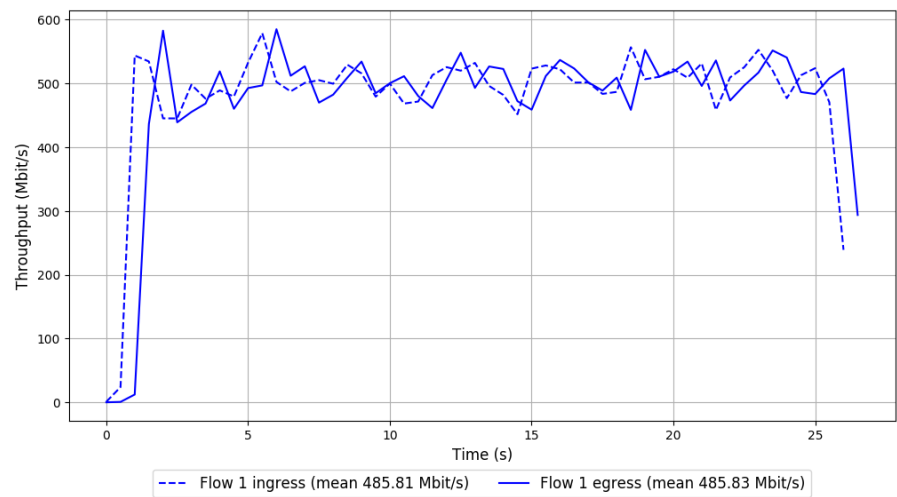
-- Flow 1:

Average throughput: 485.83 Mbit/s

95th percentile per-packet one-way delay: 97.347 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2020-02-18 00:17:25

End at: 2020-02-18 00:17:55

Local clock offset: 0.403 ms

Remote clock offset: 1.549 ms

# Below is generated by plot.py at 2020-02-18 01:41:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 460.13 Mbit/s

95th percentile per-packet one-way delay: 89.683 ms

Loss rate: 0.28%

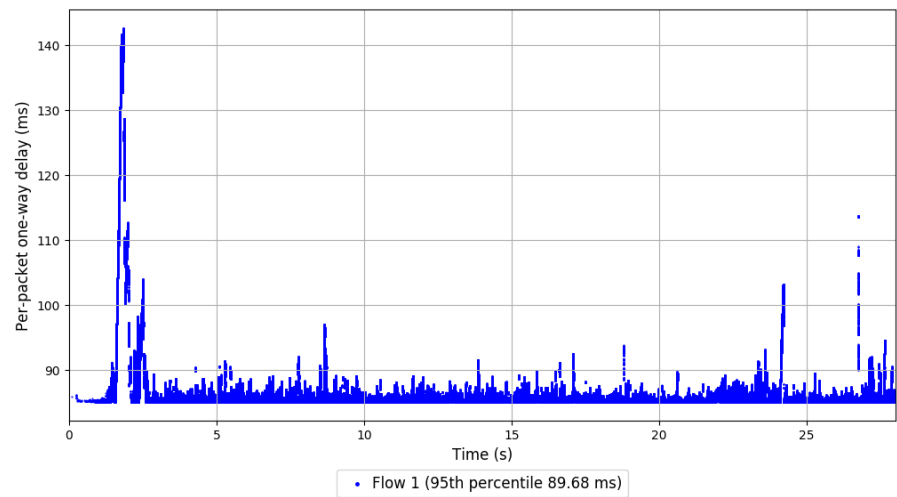
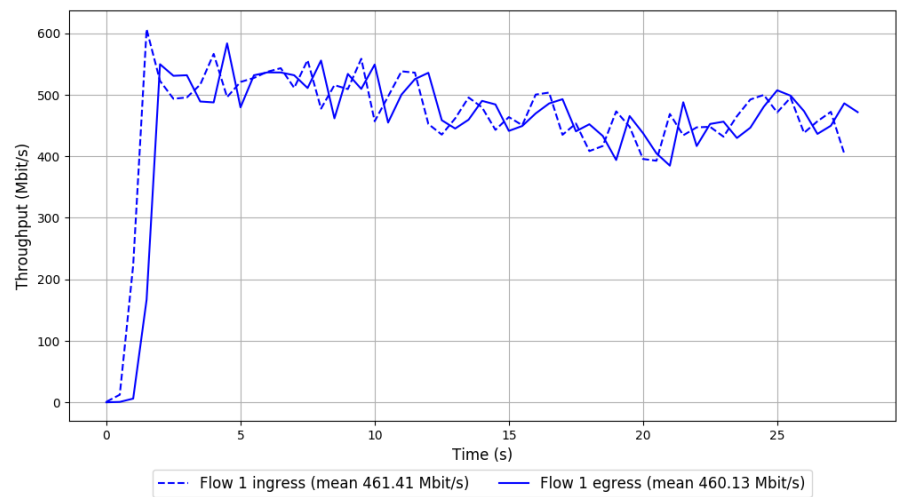
-- Flow 1:

Average throughput: 460.13 Mbit/s

95th percentile per-packet one-way delay: 89.683 ms

Loss rate: 0.28%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

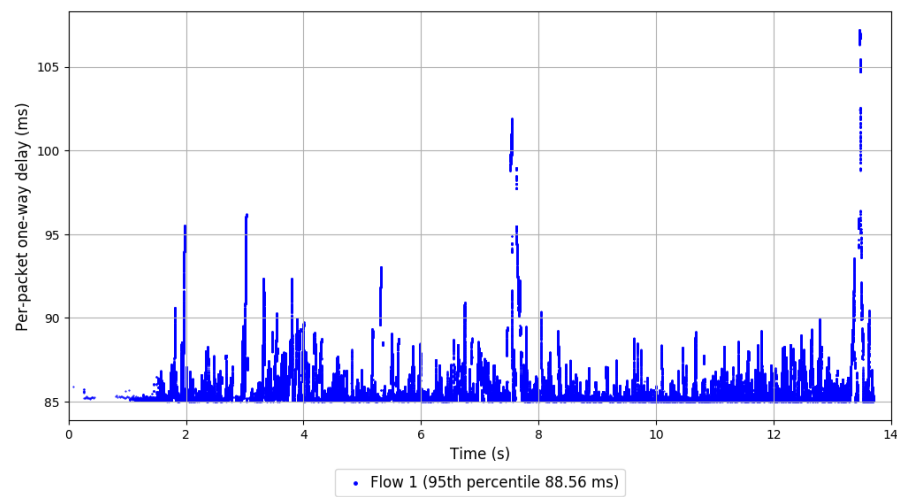
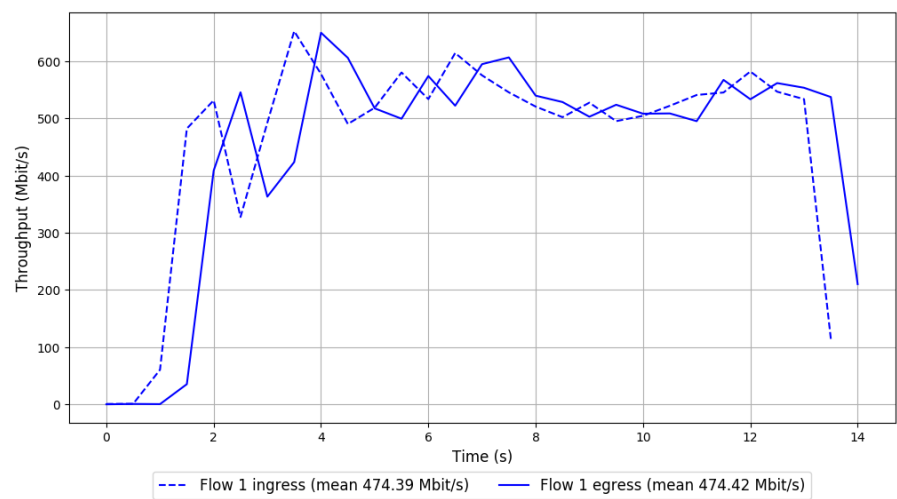
Start at: 2020-02-17 21:32:21

End at: 2020-02-17 21:32:51

Local clock offset: 1.528 ms

Remote clock offset: 4.797 ms

Run 1: Report of Indigo-MusesC5 — Data Link





Run 2: Statistics of Indigo-MusesC5

Start at: 2020-02-17 22:06:54

End at: 2020-02-17 22:07:24

Local clock offset: 3.984 ms

Remote clock offset: 15.168 ms

# Below is generated by plot.py at 2020-02-18 01:44:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 508.50 Mbit/s

95th percentile per-packet one-way delay: 88.359 ms

Loss rate: 0.00%

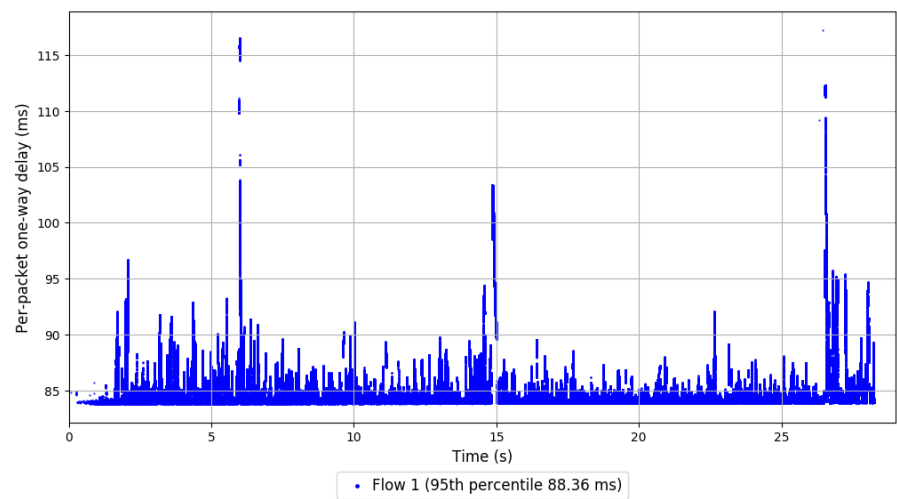
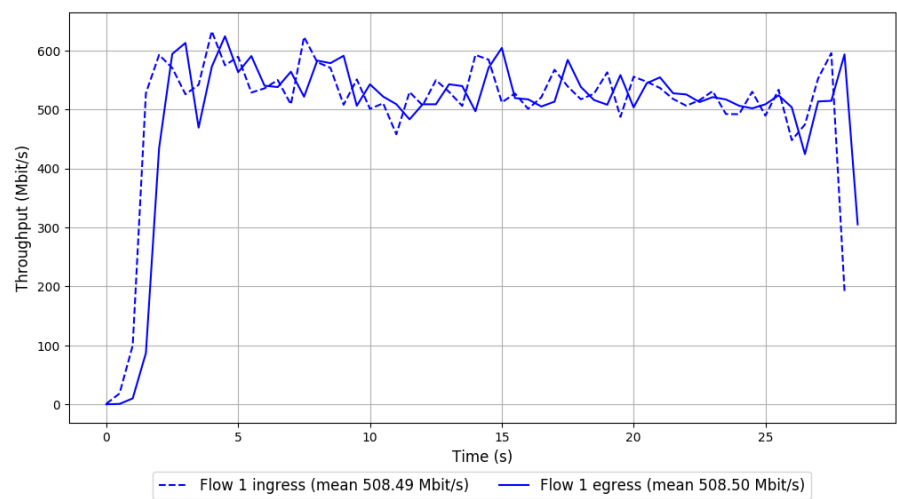
-- Flow 1:

Average throughput: 508.50 Mbit/s

95th percentile per-packet one-way delay: 88.359 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesC5 — Data Link

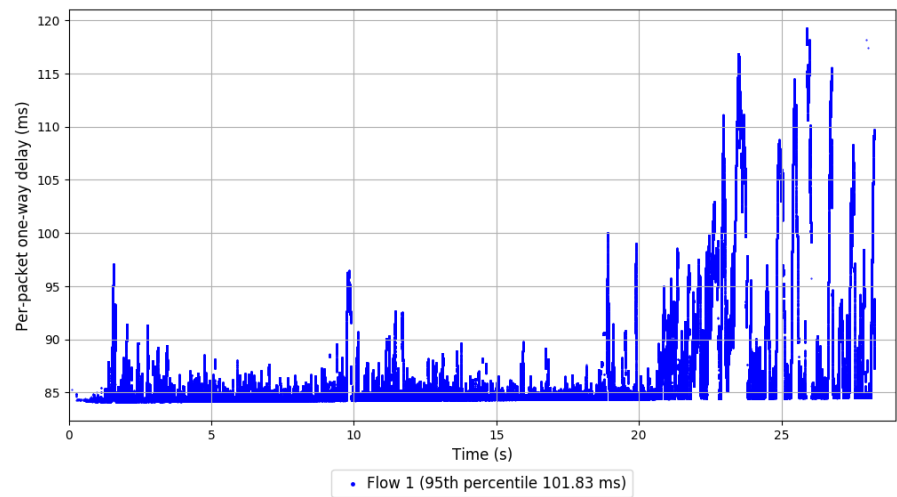
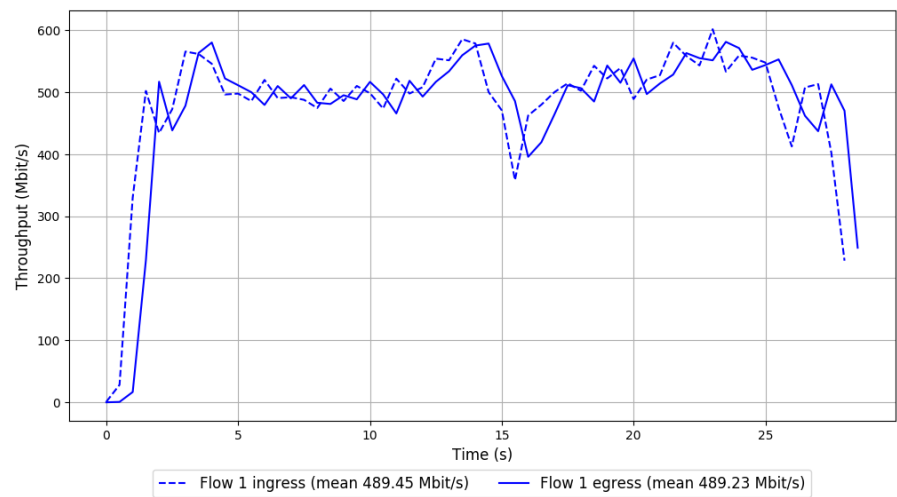


Run 3: Statistics of Indigo-MusesC5

Start at: 2020-02-17 22:42:05  
End at: 2020-02-17 22:42:35  
Local clock offset: 4.295 ms  
Remote clock offset: 16.898 ms

# Below is generated by plot.py at 2020-02-18 01:47:21  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 489.23 Mbit/s  
95th percentile per-packet one-way delay: 101.831 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 489.23 Mbit/s  
95th percentile per-packet one-way delay: 101.831 ms  
Loss rate: 0.04%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2020-02-17 23:17:42

End at: 2020-02-17 23:18:12

Local clock offset: 1.807 ms

Remote clock offset: 7.506 ms

# Below is generated by plot.py at 2020-02-18 01:48:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 514.69 Mbit/s

95th percentile per-packet one-way delay: 88.316 ms

Loss rate: 0.00%

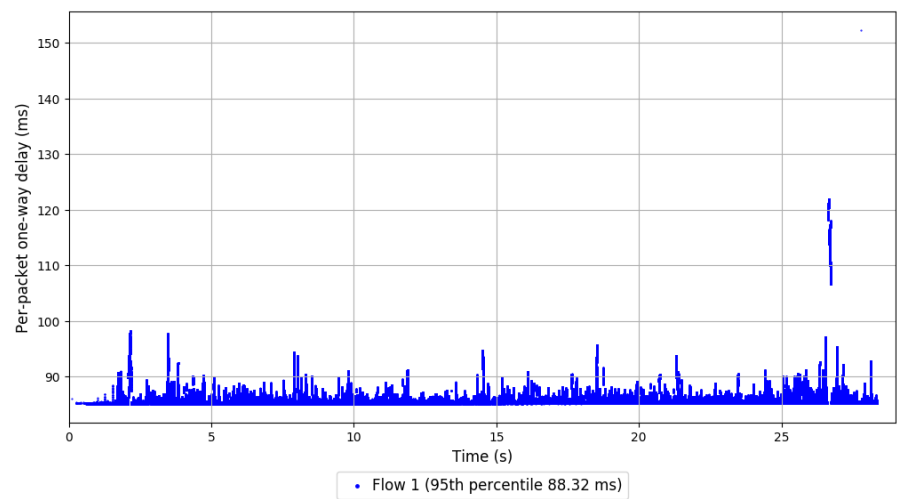
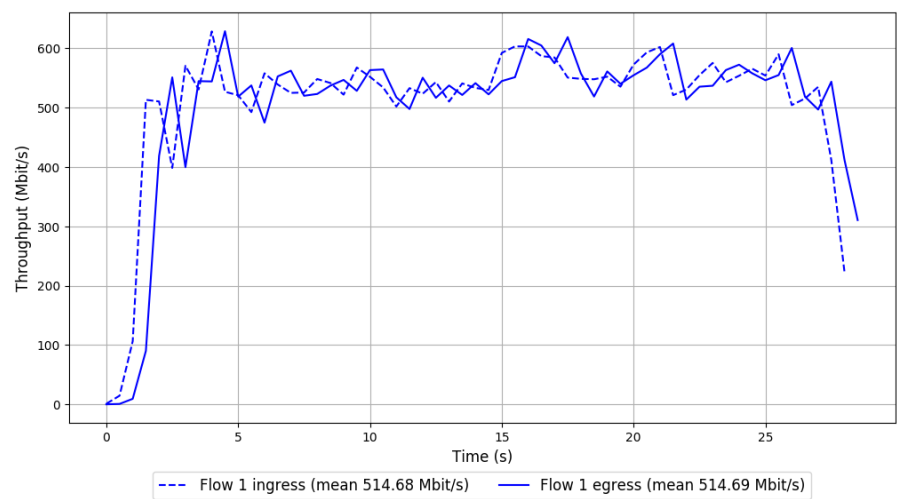
-- Flow 1:

Average throughput: 514.69 Mbit/s

95th percentile per-packet one-way delay: 88.316 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2020-02-17 23:52:46

End at: 2020-02-17 23:53:17

Local clock offset: 0.777 ms

Remote clock offset: 2.887 ms

# Below is generated by plot.py at 2020-02-18 01:49:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 481.28 Mbit/s

95th percentile per-packet one-way delay: 88.833 ms

Loss rate: 0.00%

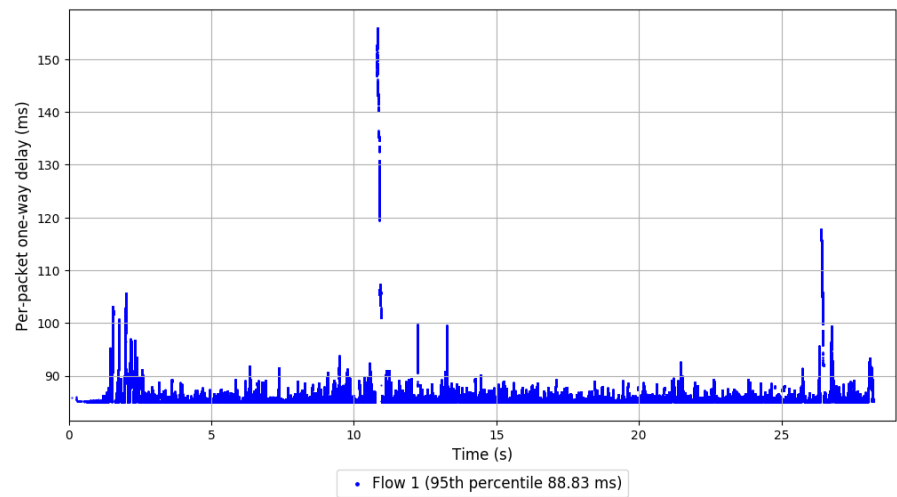
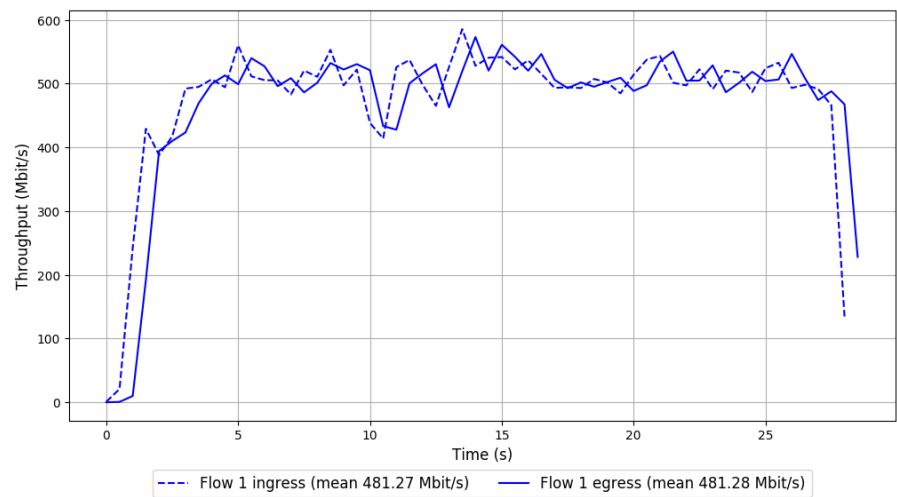
-- Flow 1:

Average throughput: 481.28 Mbit/s

95th percentile per-packet one-way delay: 88.833 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC5 — Data Link



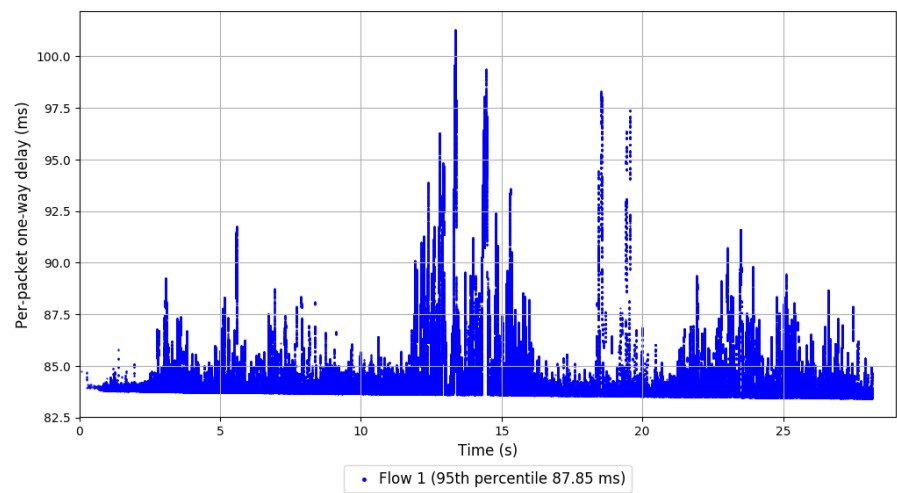
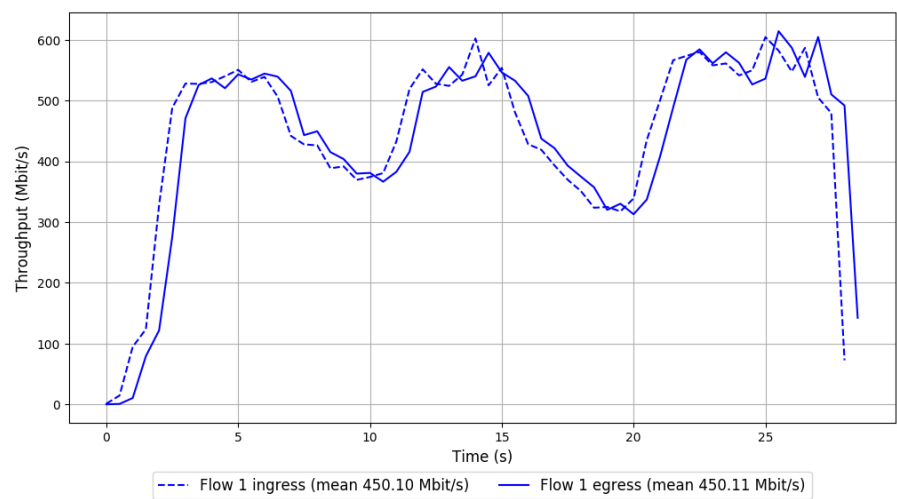


```
Run 1: Statistics of Indigo-MusesD

Start at: 2020-02-17 21:58:11
End at: 2020-02-17 21:58:41
Local clock offset: 4.042 ms
Remote clock offset: 16.079 ms

# Below is generated by plot.py at 2020-02-18 01:49:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 450.11 Mbit/s
95th percentile per-packet one-way delay: 87.852 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 450.11 Mbit/s
95th percentile per-packet one-way delay: 87.852 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2020-02-17 22:33:07

End at: 2020-02-17 22:33:37

Local clock offset: 7.187 ms

Remote clock offset: 27.14 ms

# Below is generated by plot.py at 2020-02-18 01:50:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 461.90 Mbit/s

95th percentile per-packet one-way delay: 86.015 ms

Loss rate: 0.00%

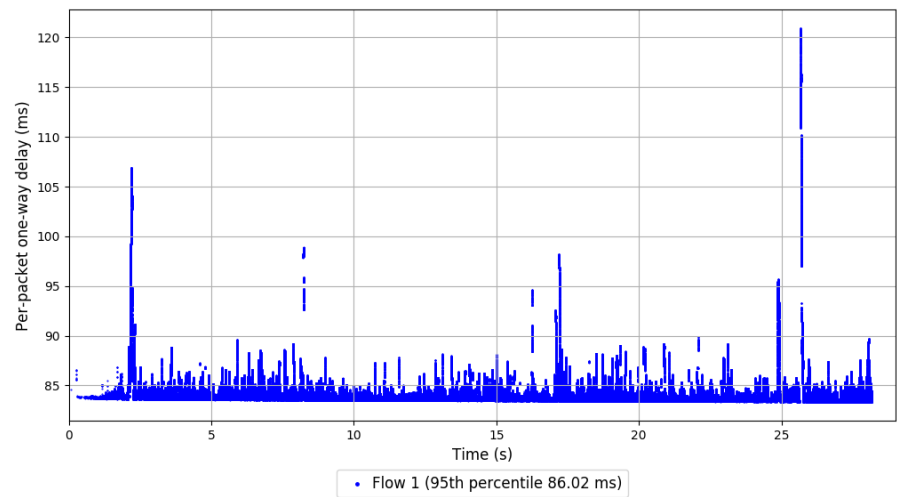
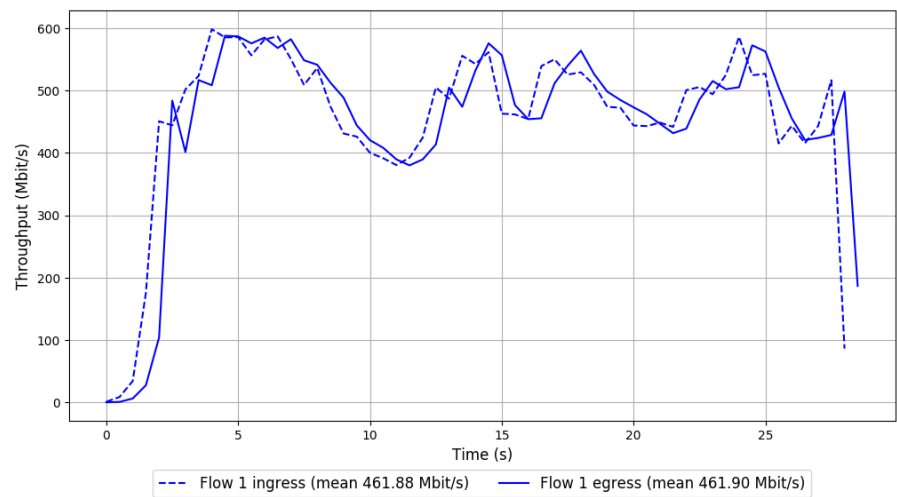
-- Flow 1:

Average throughput: 461.90 Mbit/s

95th percentile per-packet one-way delay: 86.015 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2020-02-17 23:08:40

End at: 2020-02-17 23:09:10

Local clock offset: 3.478 ms

Remote clock offset: 14.418 ms

# Below is generated by plot.py at 2020-02-18 01:51:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 451.13 Mbit/s

95th percentile per-packet one-way delay: 85.977 ms

Loss rate: 0.00%

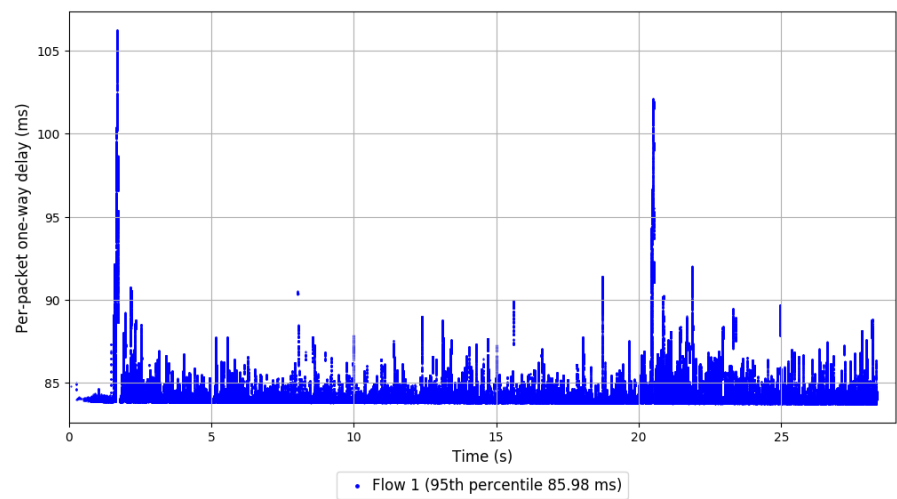
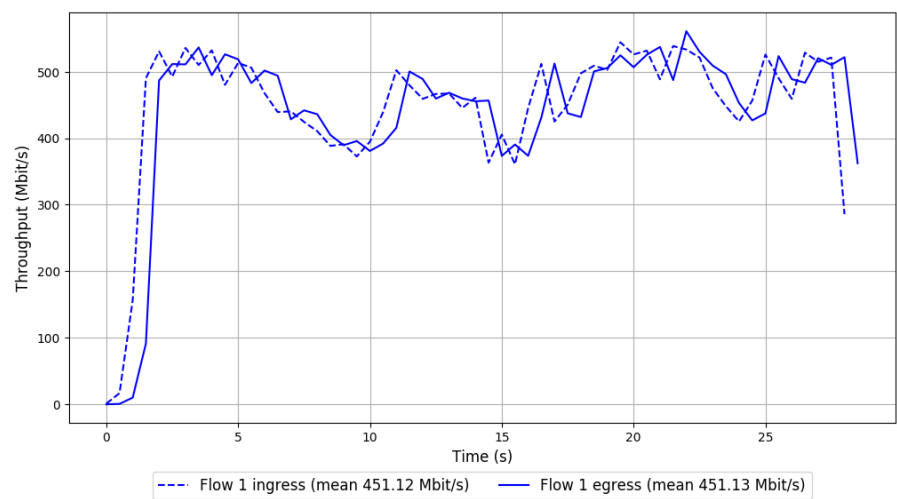
-- Flow 1:

Average throughput: 451.13 Mbit/s

95th percentile per-packet one-way delay: 85.977 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2020-02-17 23:43:44

End at: 2020-02-17 23:44:14

Local clock offset: 1.684 ms

Remote clock offset: 6.918 ms

# Below is generated by plot.py at 2020-02-18 01:52:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 421.54 Mbit/s

95th percentile per-packet one-way delay: 85.795 ms

Loss rate: 0.00%

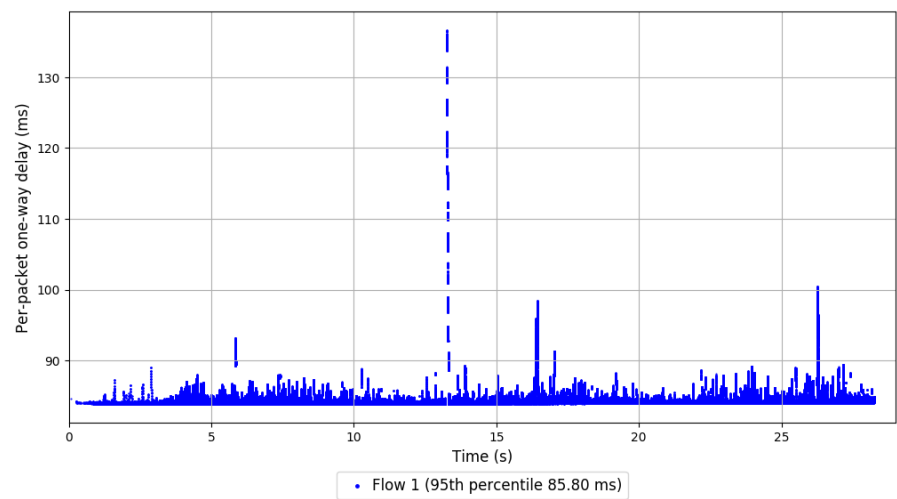
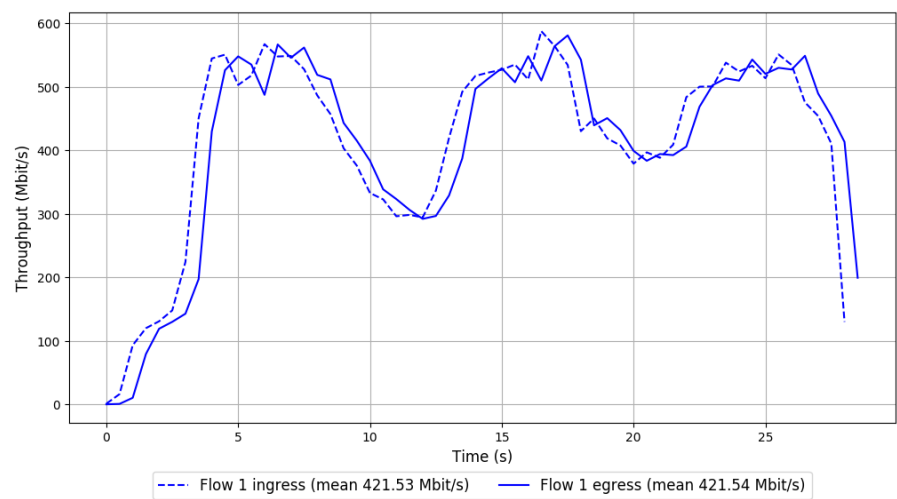
-- Flow 1:

Average throughput: 421.54 Mbit/s

95th percentile per-packet one-way delay: 85.795 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2020-02-18 00:18:57

End at: 2020-02-18 00:19:27

Local clock offset: 0.442 ms

Remote clock offset: 1.492 ms

# Below is generated by plot.py at 2020-02-18 01:55:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 479.68 Mbit/s

95th percentile per-packet one-way delay: 87.652 ms

Loss rate: 0.00%

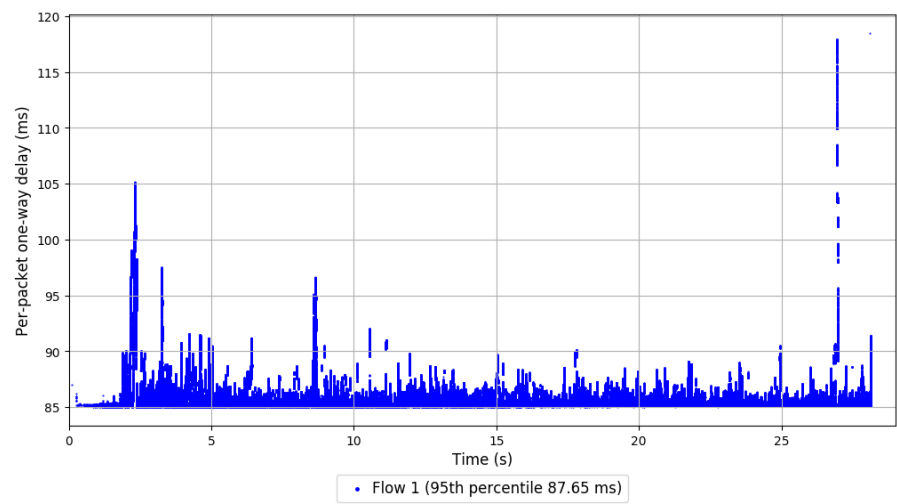
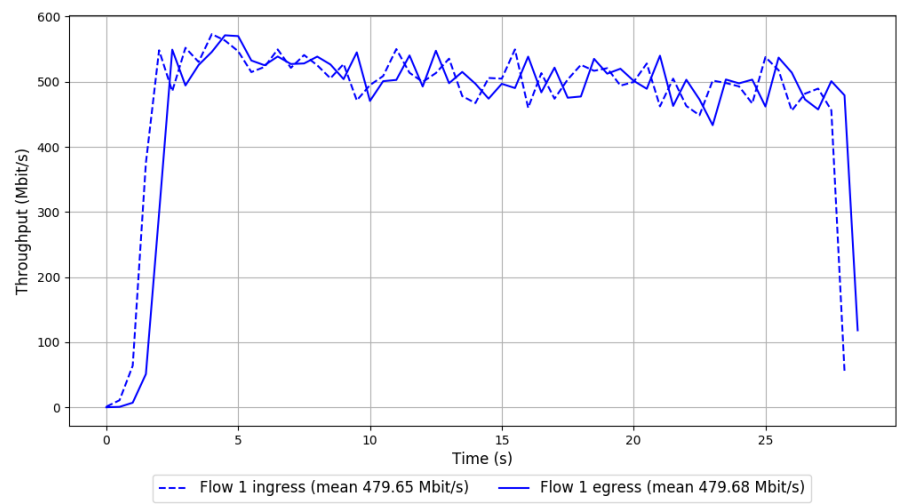
-- Flow 1:

Average throughput: 479.68 Mbit/s

95th percentile per-packet one-way delay: 87.652 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2020-02-17 21:40:28

End at: 2020-02-17 21:40:58

Local clock offset: 2.421 ms

Remote clock offset: 7.687 ms

# Below is generated by plot.py at 2020-02-18 01:58:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 460.29 Mbit/s

95th percentile per-packet one-way delay: 86.240 ms

Loss rate: 0.00%

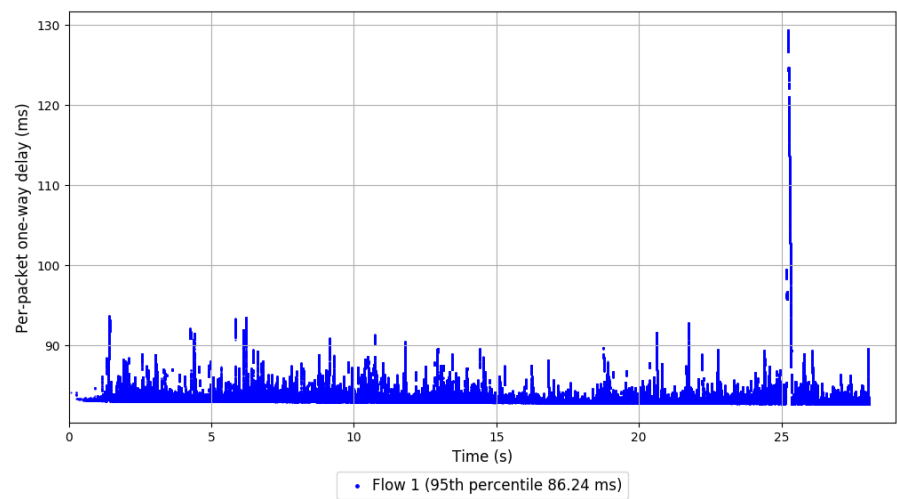
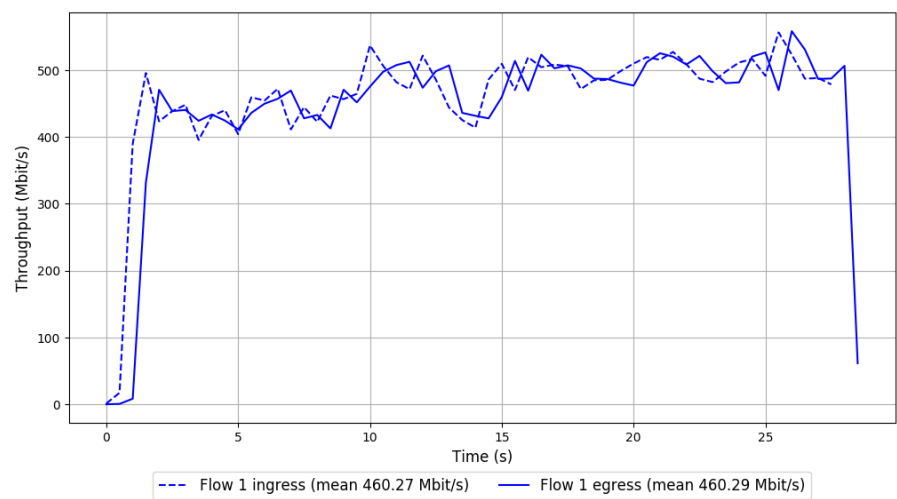
-- Flow 1:

Average throughput: 460.29 Mbit/s

95th percentile per-packet one-way delay: 86.240 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2020-02-17 22:15:14

End at: 2020-02-17 22:15:44

Local clock offset: 3.905 ms

Remote clock offset: 15.563 ms

# Below is generated by plot.py at 2020-02-18 02:00:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 491.20 Mbit/s

95th percentile per-packet one-way delay: 93.073 ms

Loss rate: 0.00%

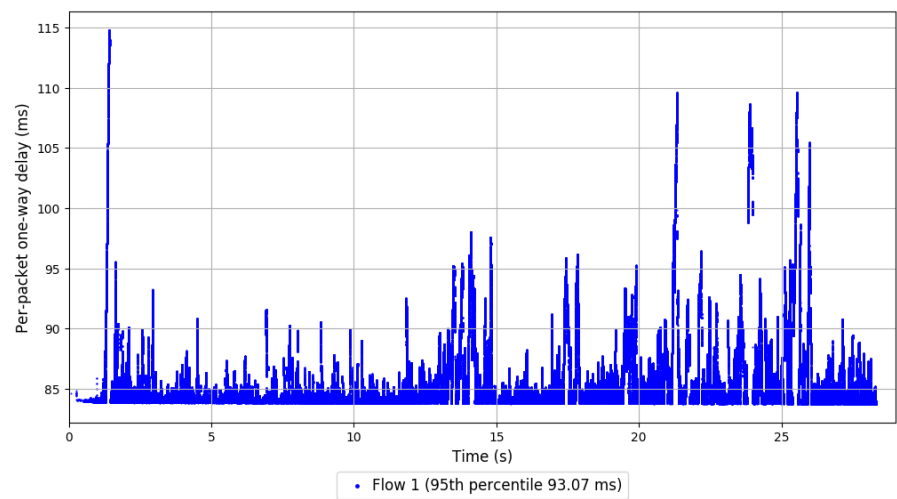
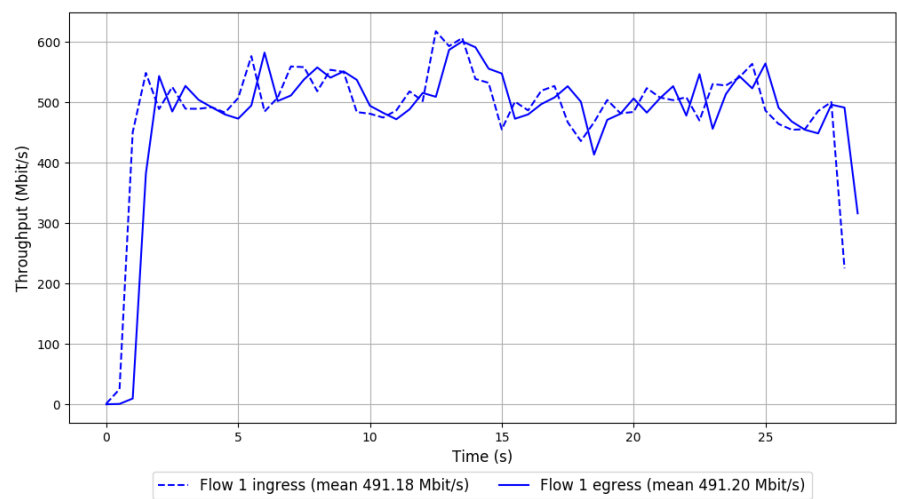
-- Flow 1:

Average throughput: 491.20 Mbit/s

95th percentile per-packet one-way delay: 93.073 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2020-02-17 22:50:24

End at: 2020-02-17 22:50:54

Local clock offset: 2.82 ms

Remote clock offset: 11.451 ms

# Below is generated by plot.py at 2020-02-18 02:00:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 501.57 Mbit/s

95th percentile per-packet one-way delay: 100.405 ms

Loss rate: 0.00%

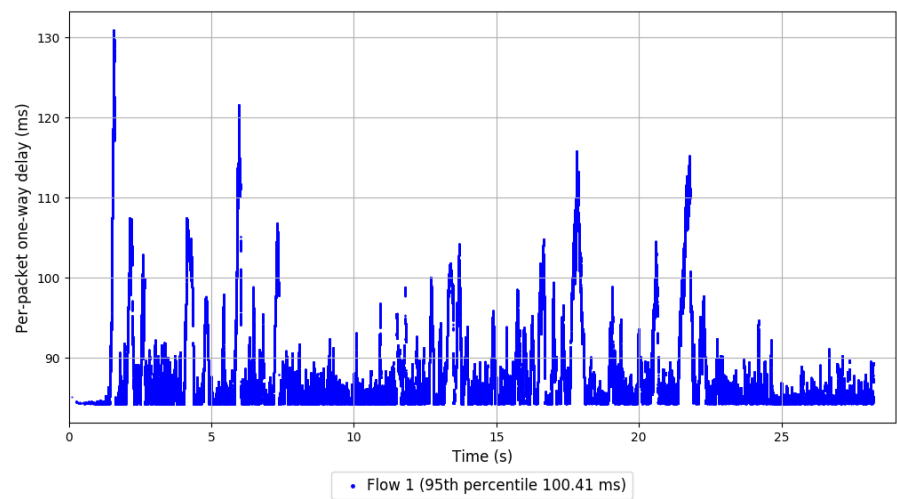
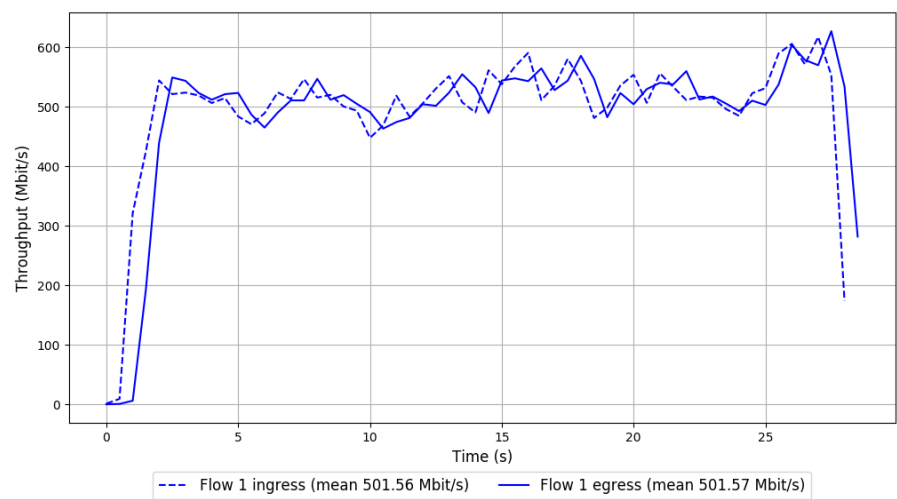
-- Flow 1:

Average throughput: 501.57 Mbit/s

95th percentile per-packet one-way delay: 100.405 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesT — Data Link





Run 4: Statistics of Indigo-MusesT

Start at: 2020-02-17 23:25:54

End at: 2020-02-17 23:26:24

Local clock offset: 1.328 ms

Remote clock offset: 5.367 ms

# Below is generated by plot.py at 2020-02-18 02:00:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 498.24 Mbit/s

95th percentile per-packet one-way delay: 89.883 ms

Loss rate: 0.01%

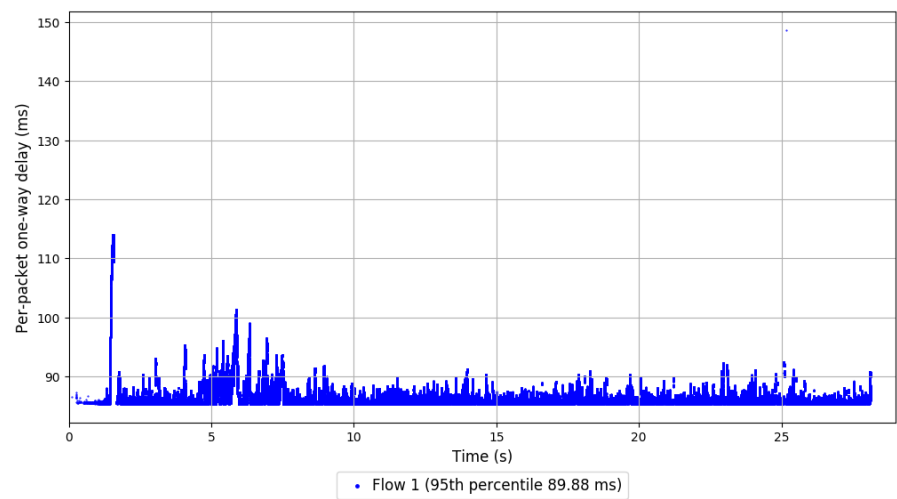
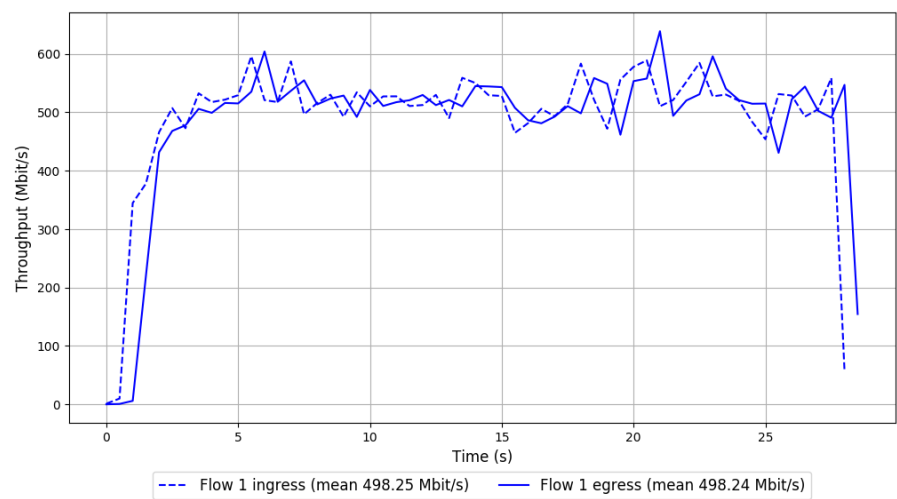
-- Flow 1:

Average throughput: 498.24 Mbit/s

95th percentile per-packet one-way delay: 89.883 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2020-02-18 00:01:07

End at: 2020-02-18 00:01:37

Local clock offset: 0.417 ms

Remote clock offset: 1.618 ms

# Below is generated by plot.py at 2020-02-18 02:02:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 491.27 Mbit/s

95th percentile per-packet one-way delay: 93.563 ms

Loss rate: 0.00%

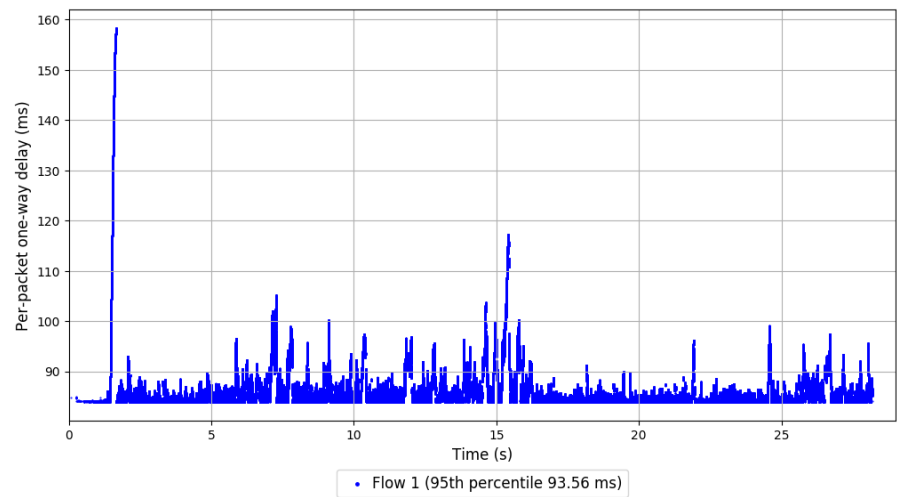
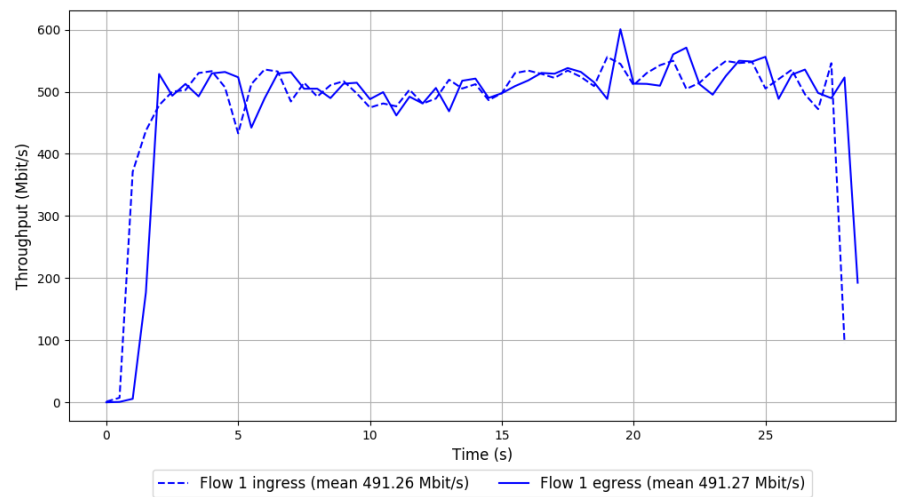
-- Flow 1:

Average throughput: 491.27 Mbit/s

95th percentile per-packet one-way delay: 93.563 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesT — Data Link

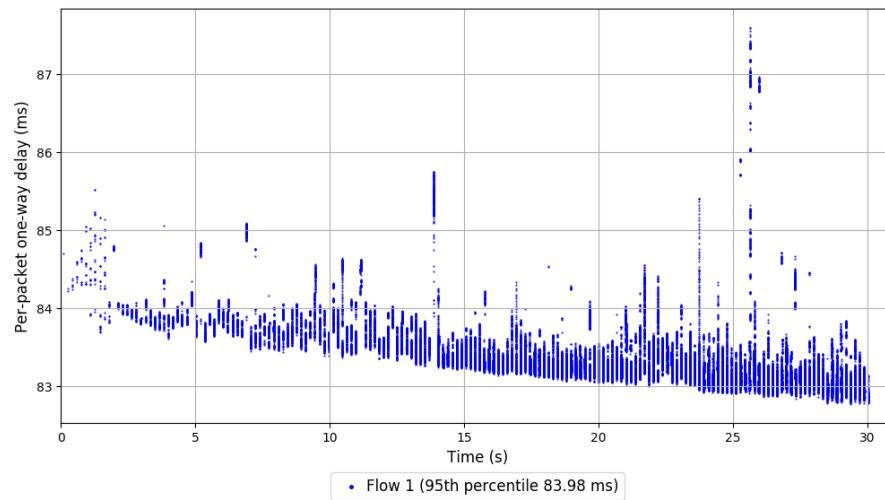
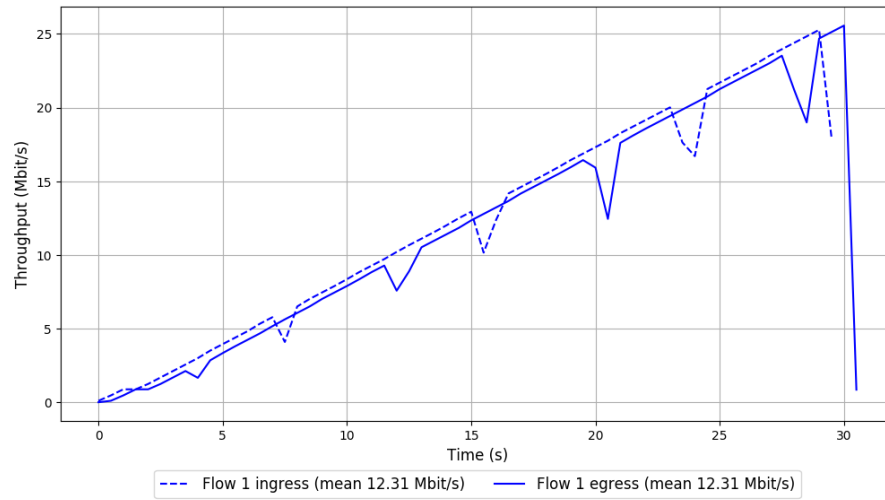


```
Run 1: Statistics of LEDBAT

Start at: 2020-02-17 21:31:10
End at: 2020-02-17 21:31:40
Local clock offset: 0.99 ms
Remote clock offset: 3.927 ms

# Below is generated by plot.py at 2020-02-18 02:02:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.31 Mbit/s
95th percentile per-packet one-way delay: 83.981 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.31 Mbit/s
95th percentile per-packet one-way delay: 83.981 ms
Loss rate: 0.00%
```

# Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2020-02-17 22:05:44

End at: 2020-02-17 22:06:14

Local clock offset: 4.003 ms

Remote clock offset: 15.69 ms

# Below is generated by plot.py at 2020-02-18 02:02:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.96 Mbit/s

95th percentile per-packet one-way delay: 84.972 ms

Loss rate: 0.00%

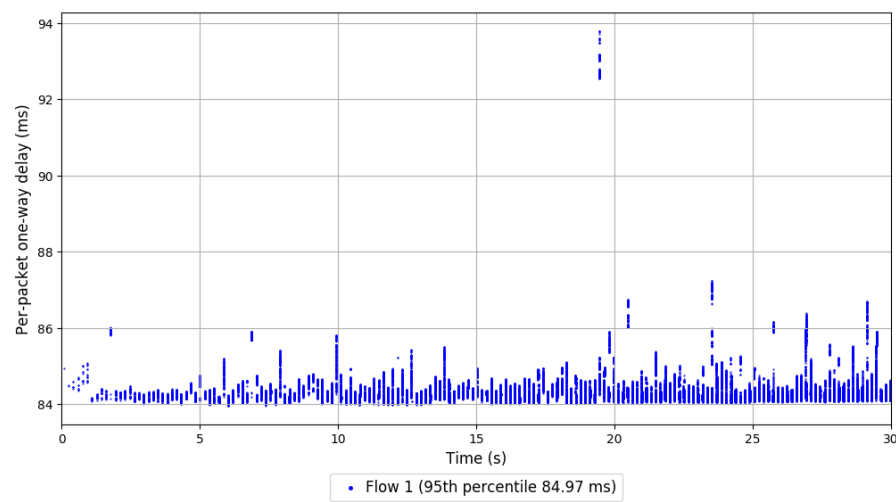
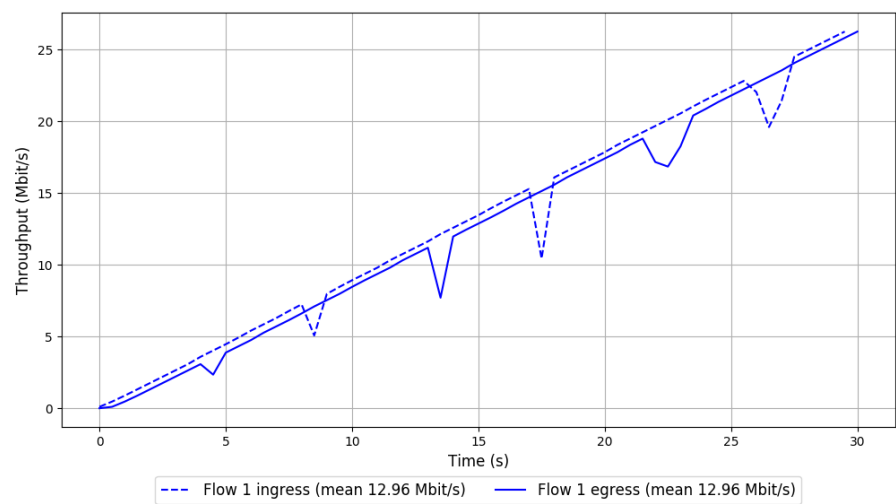
-- Flow 1:

Average throughput: 12.96 Mbit/s

95th percentile per-packet one-way delay: 84.972 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



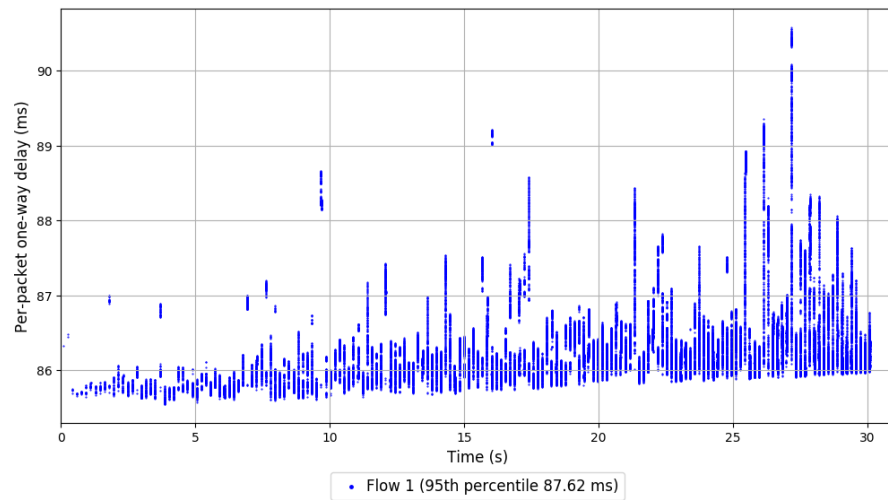
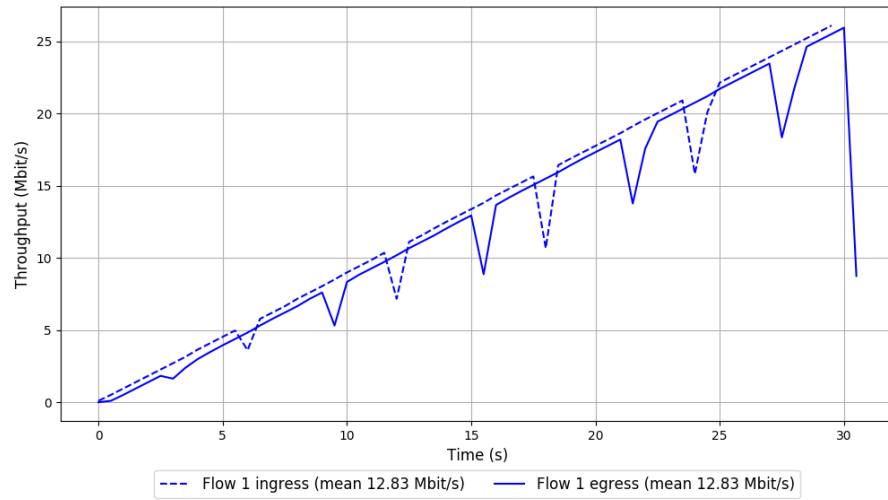


Run 3: Statistics of LEDBAT

Start at: 2020-02-17 22:40:54  
End at: 2020-02-17 22:41:24  
Local clock offset: 4.692 ms  
Remote clock offset: 18.252 ms

# Below is generated by plot.py at 2020-02-18 02:02:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.83 Mbit/s  
95th percentile per-packet one-way delay: 87.617 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 12.83 Mbit/s  
95th percentile per-packet one-way delay: 87.617 ms  
Loss rate: 0.00%

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



Run 4: Statistics of LEDBAT

Start at: 2020-02-17 23:16:31

End at: 2020-02-17 23:17:01

Local clock offset: 2.024 ms

Remote clock offset: 8.219 ms

# Below is generated by plot.py at 2020-02-18 02:02:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.02 Mbit/s

95th percentile per-packet one-way delay: 84.756 ms

Loss rate: 0.00%

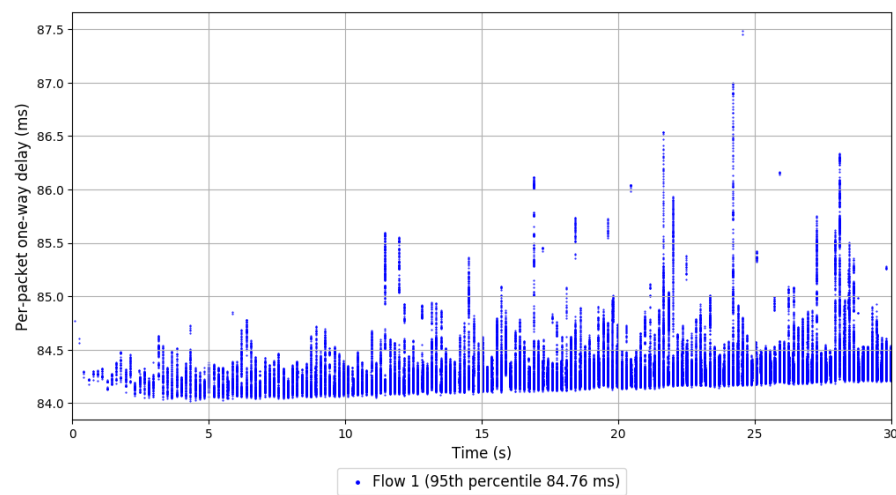
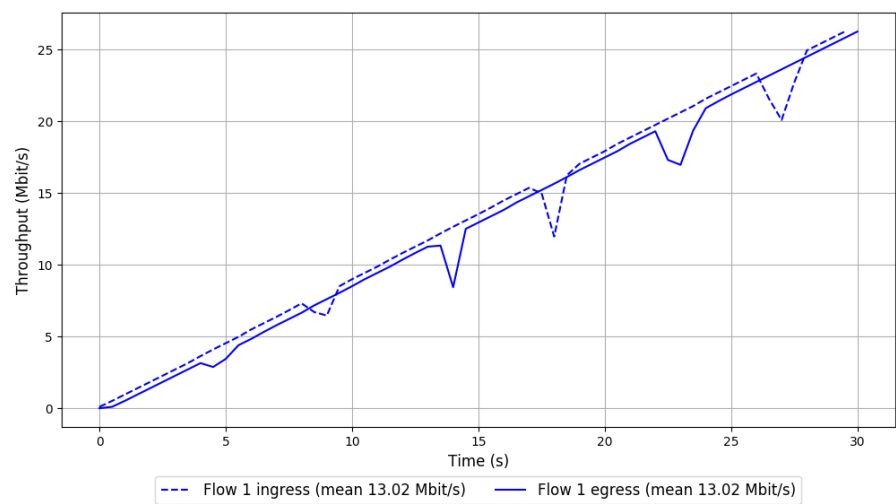
-- Flow 1:

Average throughput: 13.02 Mbit/s

95th percentile per-packet one-way delay: 84.756 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2020-02-17 23:51:36

End at: 2020-02-17 23:52:06

Local clock offset: 0.83 ms

Remote clock offset: 3.196 ms

# Below is generated by plot.py at 2020-02-18 02:02:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.03 Mbit/s

95th percentile per-packet one-way delay: 86.465 ms

Loss rate: 0.00%

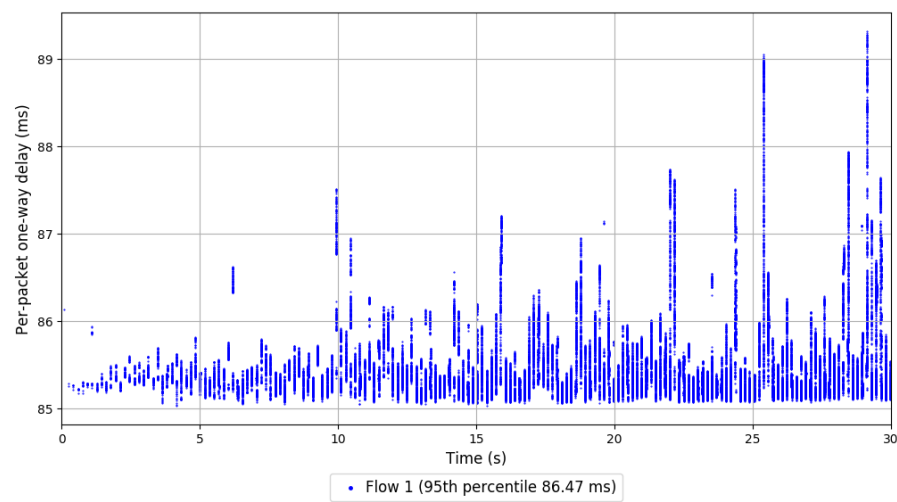
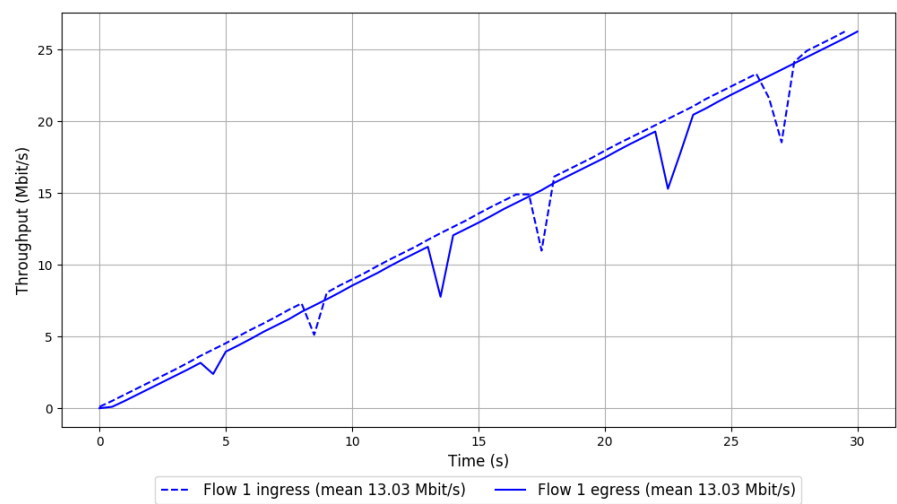
-- Flow 1:

Average throughput: 13.03 Mbit/s

95th percentile per-packet one-way delay: 86.465 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

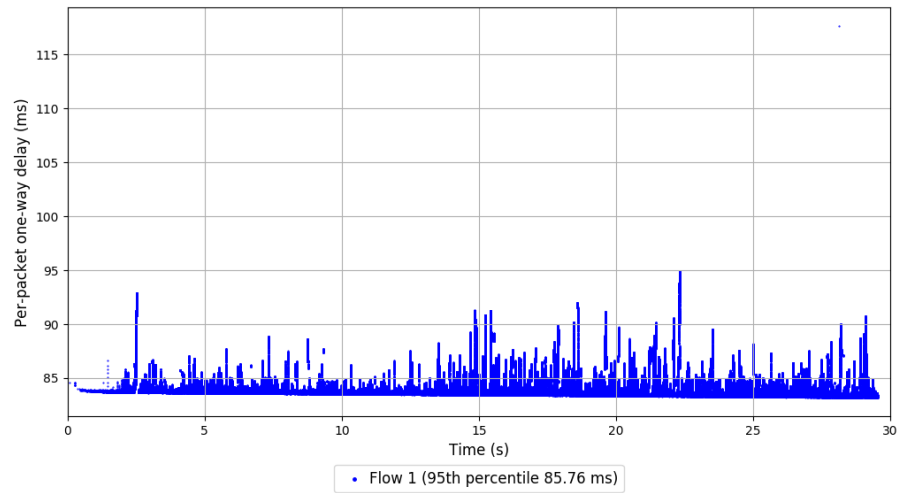
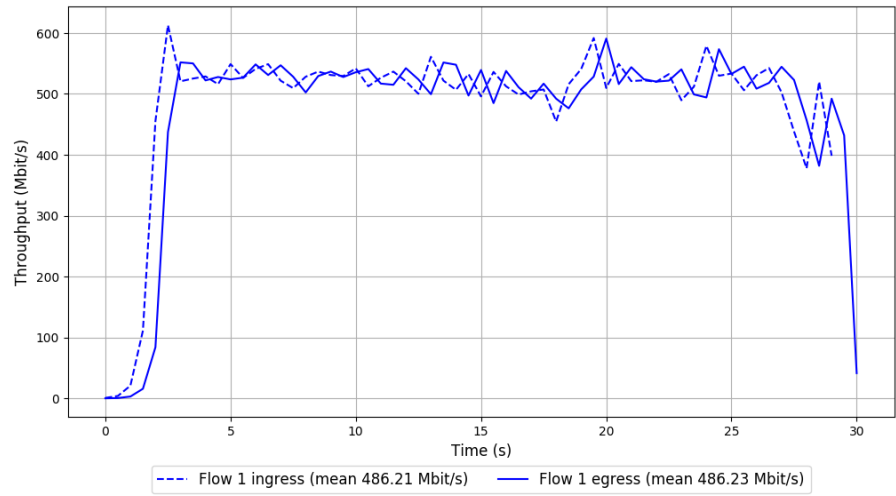


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2020-02-17 21:43:10
End at: 2020-02-17 21:43:40
Local clock offset: 2.883 ms
Remote clock offset: 11.265 ms

# Below is generated by plot.py at 2020-02-18 02:05:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 486.23 Mbit/s
95th percentile per-packet one-way delay: 85.759 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 486.23 Mbit/s
95th percentile per-packet one-way delay: 85.759 ms
Loss rate: 0.00%
```

# Run 1: Report of Muses\_DecisionTree — Data Link



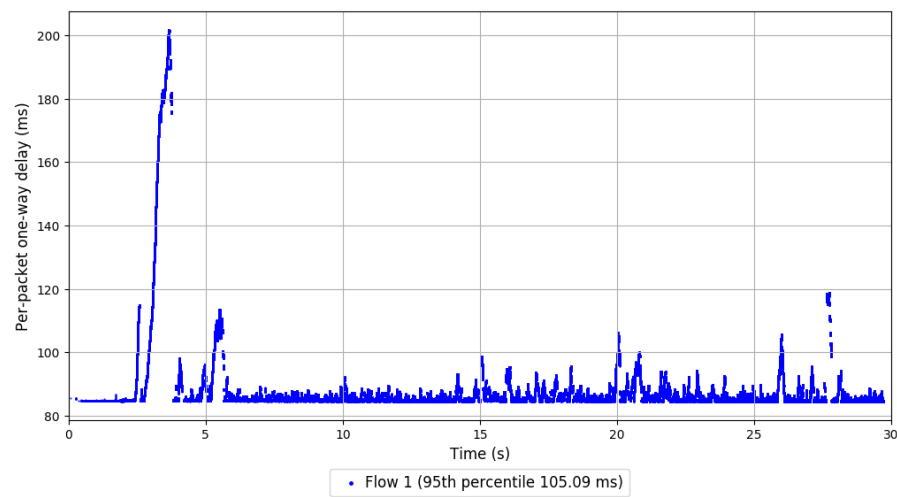
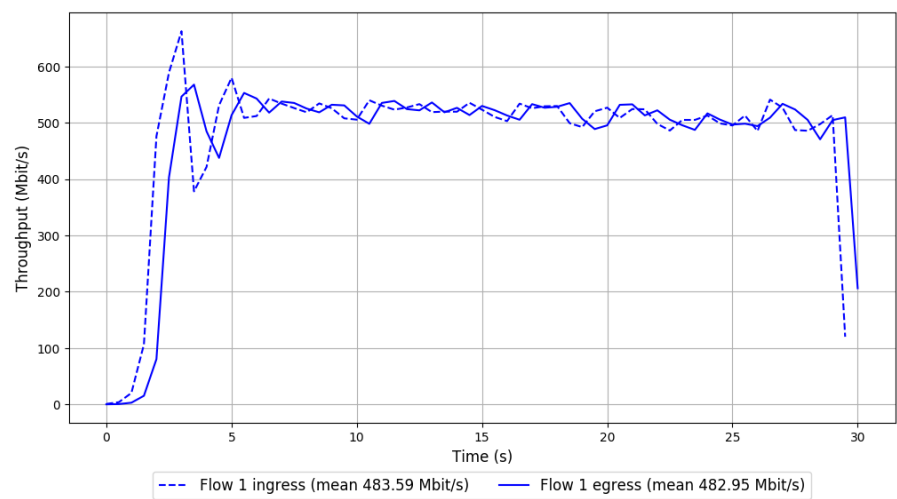


Run 2: Statistics of Muses\\_DecisionTree

Start at: 2020-02-17 22:17:58  
End at: 2020-02-17 22:18:28  
Local clock offset: 4.544 ms  
Remote clock offset: 16.751 ms

# Below is generated by plot.py at 2020-02-18 02:06:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 482.95 Mbit/s  
95th percentile per-packet one-way delay: 105.090 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 482.95 Mbit/s  
95th percentile per-packet one-way delay: 105.090 ms  
Loss rate: 0.13%

Run 2: Report of Muses\_DecisionTree — Data Link

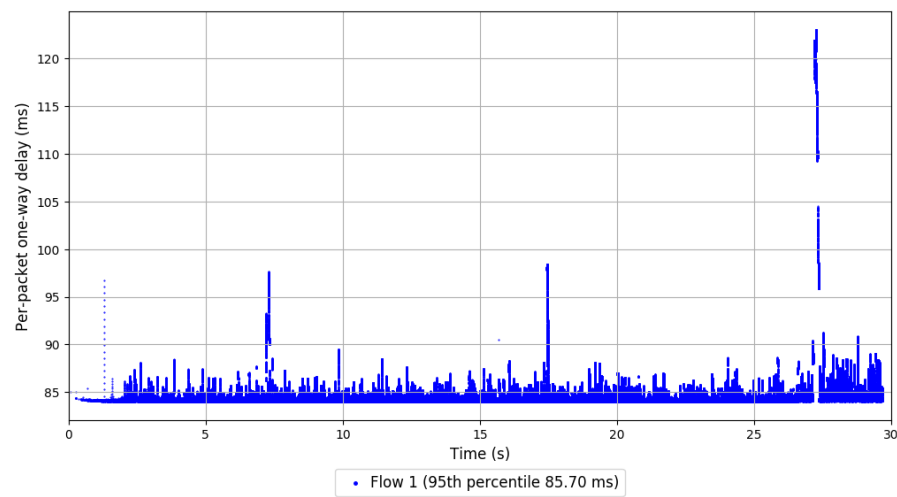
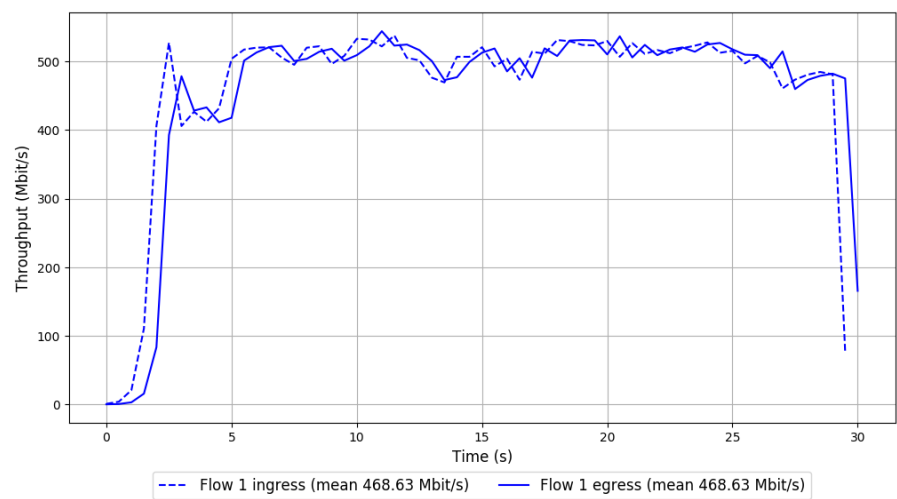


Run 3: Statistics of Muses\\_DecisionTree

Start at: 2020-02-17 22:53:07  
End at: 2020-02-17 22:53:37  
Local clock offset: 2.587 ms  
Remote clock offset: 11.158 ms

# Below is generated by plot.py at 2020-02-18 02:08:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 468.63 Mbit/s  
95th percentile per-packet one-way delay: 85.704 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 468.63 Mbit/s  
95th percentile per-packet one-way delay: 85.704 ms  
Loss rate: 0.00%

Run 3: Report of Muses\_DecisionTree — Data Link



Run 4: Statistics of Muses\\_DecisionTree

Start at: 2020-02-17 23:28:37

End at: 2020-02-17 23:29:07

Local clock offset: 1.334 ms

Remote clock offset: 5.296 ms

# Below is generated by plot.py at 2020-02-18 02:11:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 491.99 Mbit/s

95th percentile per-packet one-way delay: 98.941 ms

Loss rate: 0.00%

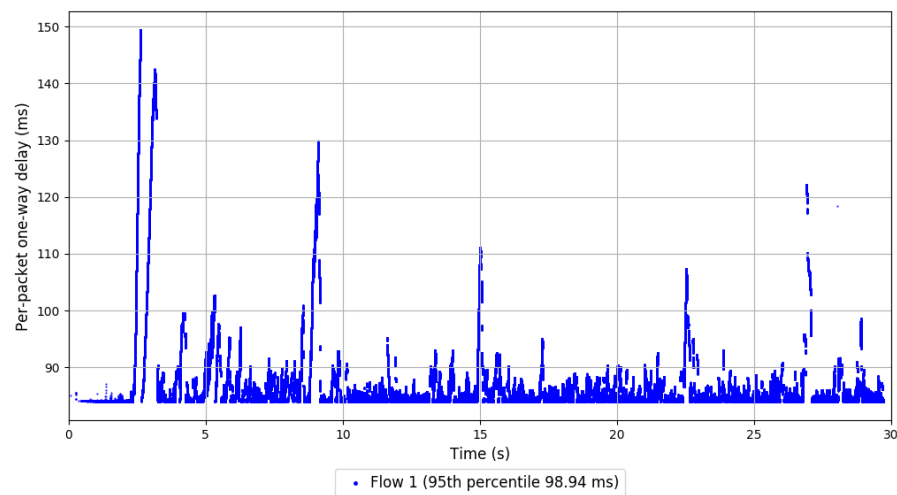
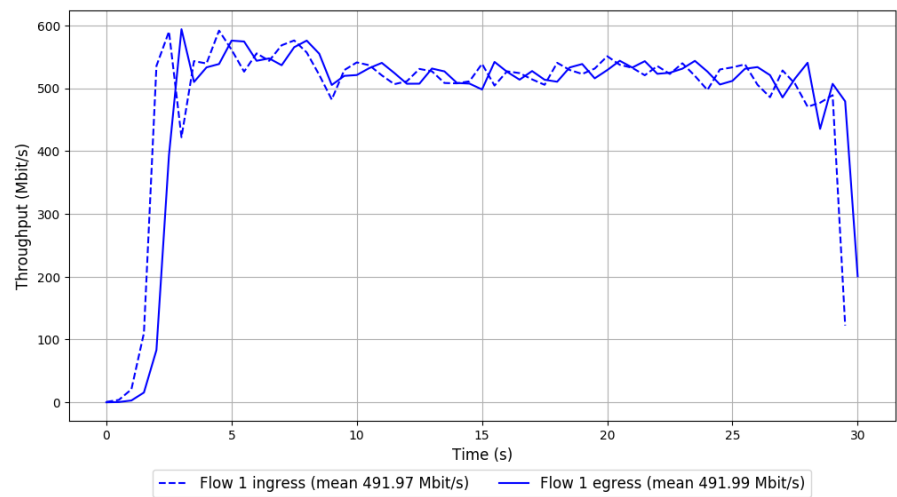
-- Flow 1:

Average throughput: 491.99 Mbit/s

95th percentile per-packet one-way delay: 98.941 ms

Loss rate: 0.00%

Run 4: Report of Muses\_DecisionTree — Data Link



Run 5: Statistics of Muses\\_DecisionTree

Start at: 2020-02-18 00:03:50

End at: 2020-02-18 00:04:20

Local clock offset: 0.411 ms

Remote clock offset: 1.525 ms

# Below is generated by plot.py at 2020-02-18 02:11:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 343.68 Mbit/s

95th percentile per-packet one-way delay: 86.234 ms

Loss rate: 0.01%

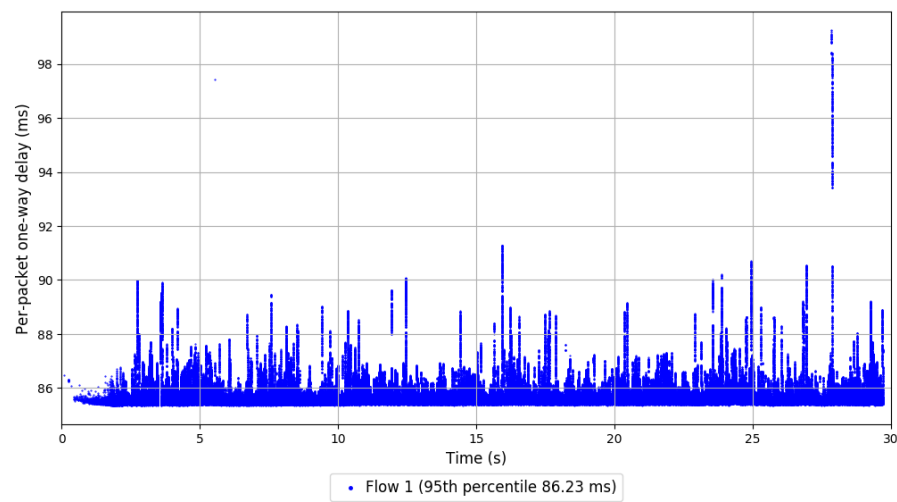
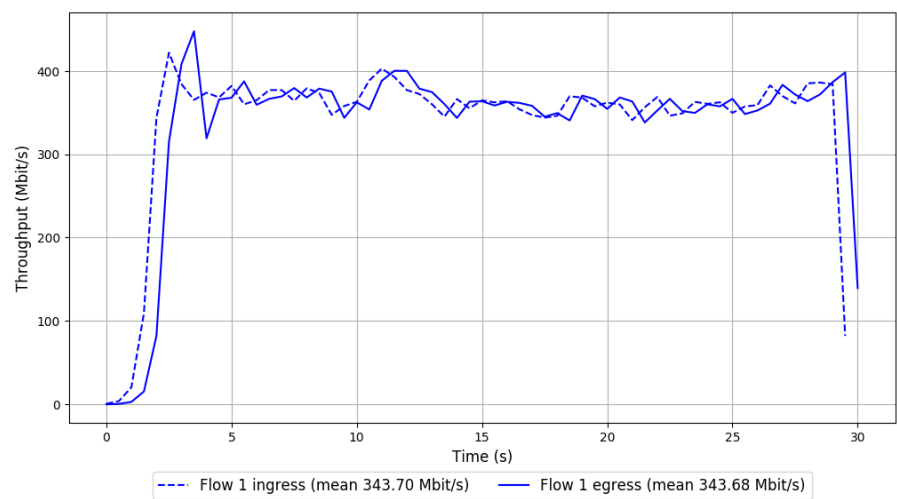
-- Flow 1:

Average throughput: 343.68 Mbit/s

95th percentile per-packet one-way delay: 86.234 ms

Loss rate: 0.01%

Run 5: Report of Muses\_DecisionTree — Data Link



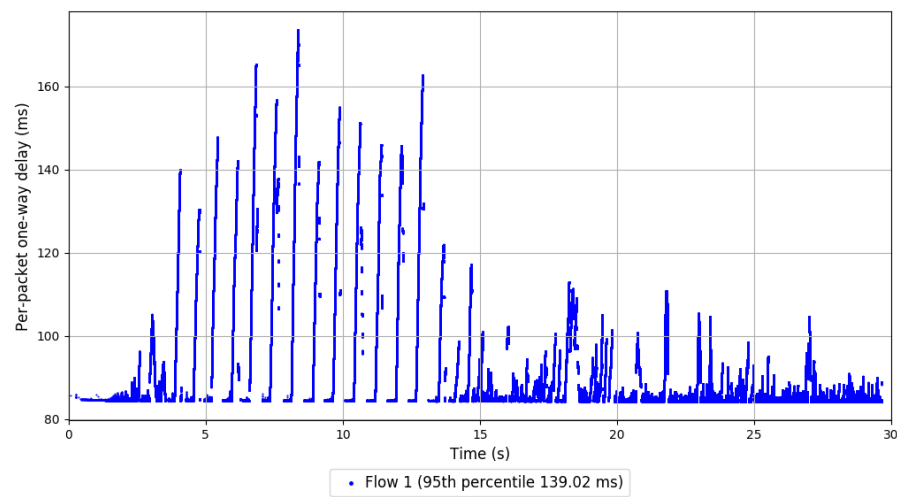
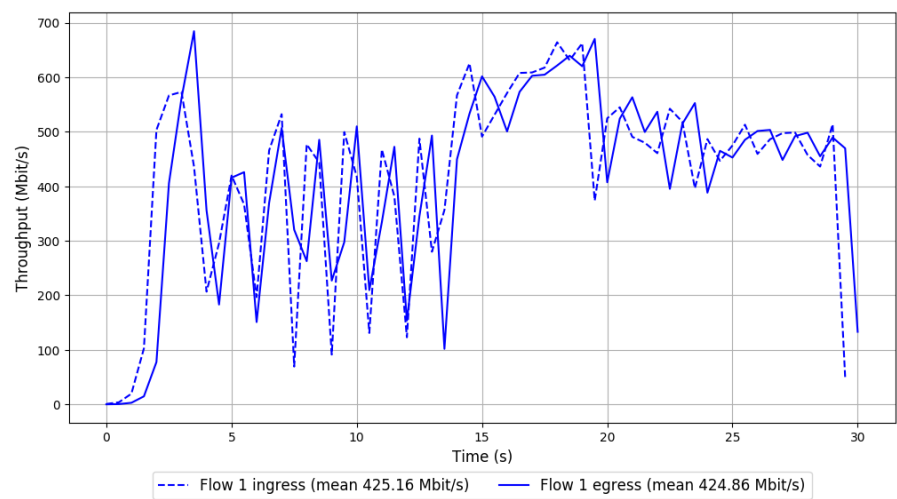


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-17 21:52:21
End at: 2020-02-17 21:52:51
Local clock offset: 3.185 ms
Remote clock offset: 10.86 ms

# Below is generated by plot.py at 2020-02-18 02:12:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 424.86 Mbit/s
95th percentile per-packet one-way delay: 139.024 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 424.86 Mbit/s
95th percentile per-packet one-way delay: 139.024 ms
Loss rate: 0.07%
```

Run 1: Report of Muses\_DecisionTreeH0 — Data Link

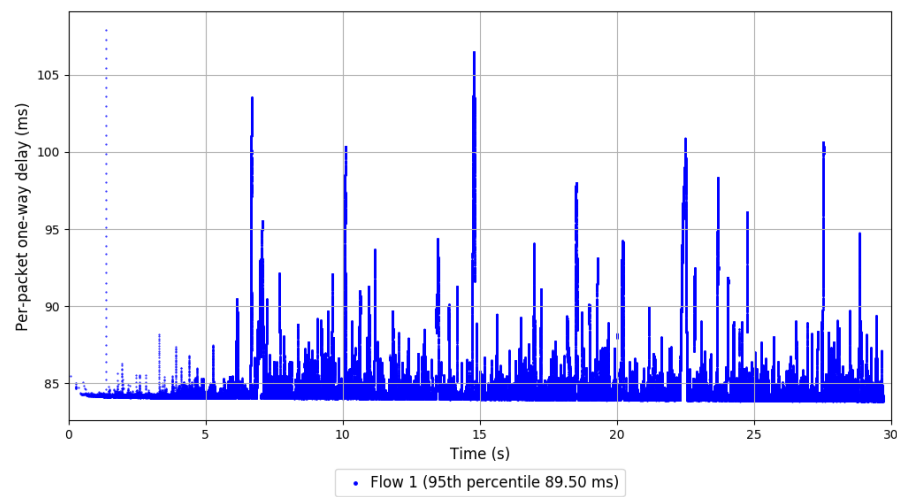
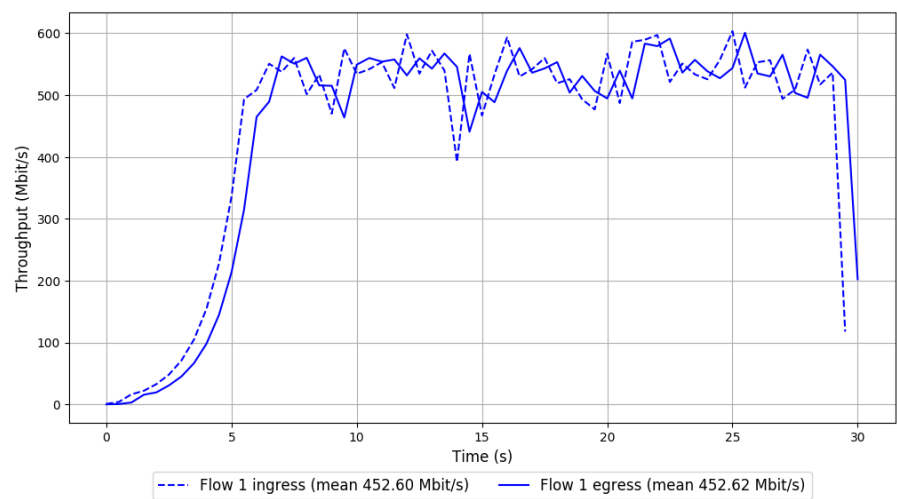


Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2020-02-17 22:27:18  
End at: 2020-02-17 22:27:48  
Local clock offset: 5.732 ms  
Remote clock offset: 22.697 ms

# Below is generated by plot.py at 2020-02-18 02:12:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 452.62 Mbit/s  
95th percentile per-packet one-way delay: 89.499 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 452.62 Mbit/s  
95th percentile per-packet one-way delay: 89.499 ms  
Loss rate: 0.00%

Run 2: Report of Muses\_DecisionTreeH0 — Data Link

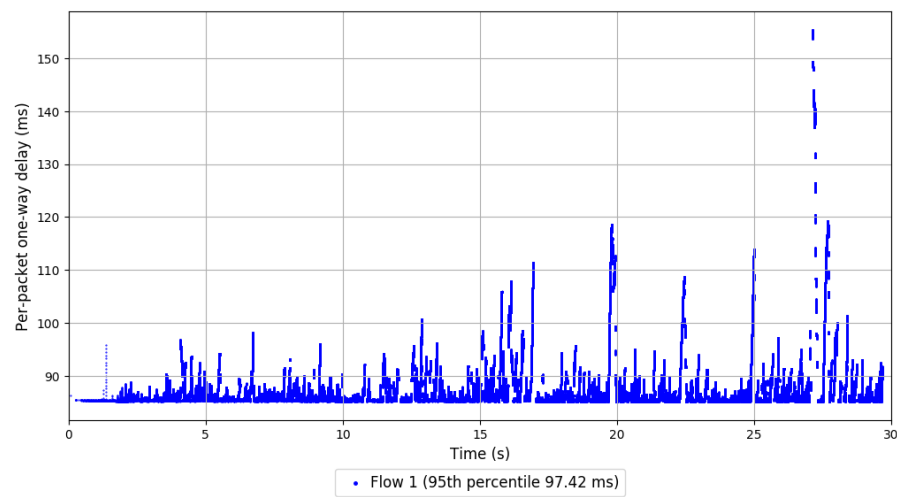
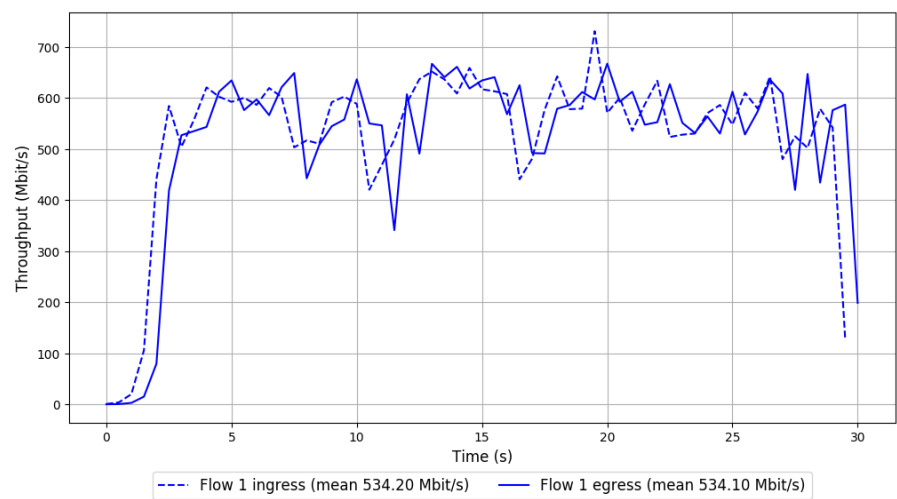


Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2020-02-17 23:02:25  
End at: 2020-02-17 23:02:55  
Local clock offset: 3.024 ms  
Remote clock offset: 12.516 ms

# Below is generated by plot.py at 2020-02-18 02:15:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 534.10 Mbit/s  
95th percentile per-packet one-way delay: 97.422 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 534.10 Mbit/s  
95th percentile per-packet one-way delay: 97.422 ms  
Loss rate: 0.00%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2020-02-17 23:37:48

End at: 2020-02-17 23:38:18

Local clock offset: 1.451 ms

Remote clock offset: 6.044 ms

# Below is generated by plot.py at 2020-02-18 02:15:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 257.18 Mbit/s

95th percentile per-packet one-way delay: 186.284 ms

Loss rate: 2.57%

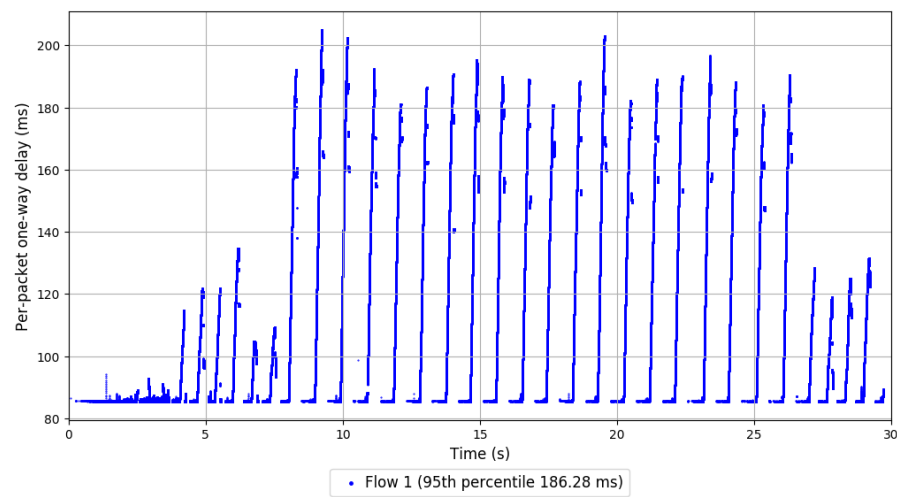
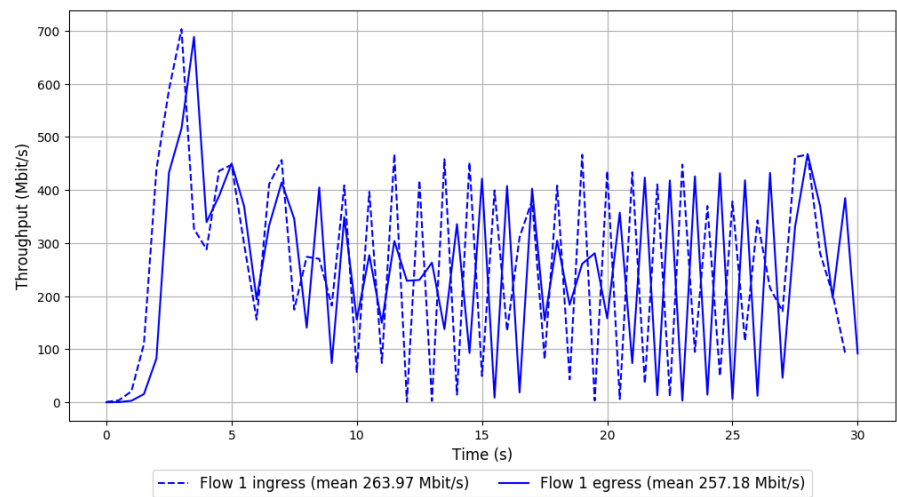
-- Flow 1:

Average throughput: 257.18 Mbit/s

95th percentile per-packet one-way delay: 186.284 ms

Loss rate: 2.57%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link





Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2020-02-18 00:13:04

End at: 2020-02-18 00:13:34

Local clock offset: 0.405 ms

Remote clock offset: 1.437 ms

# Below is generated by plot.py at 2020-02-18 02:17:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 451.85 Mbit/s

95th percentile per-packet one-way delay: 98.155 ms

Loss rate: 0.15%

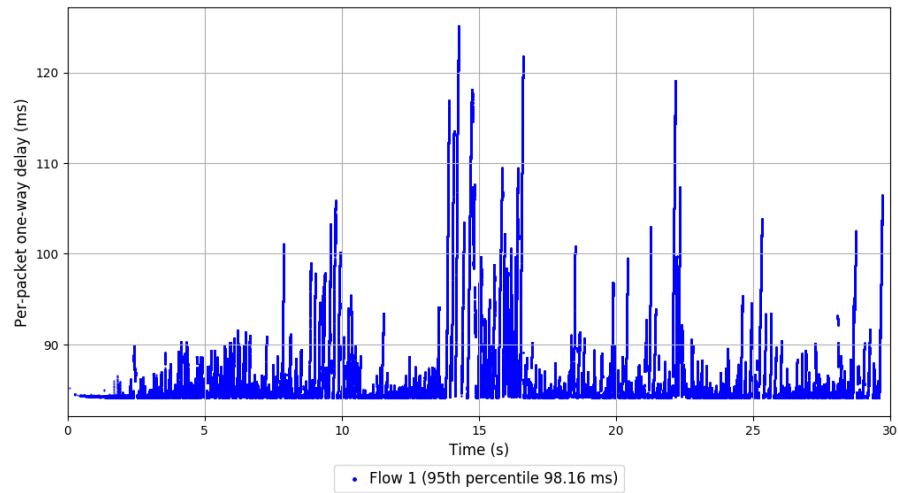
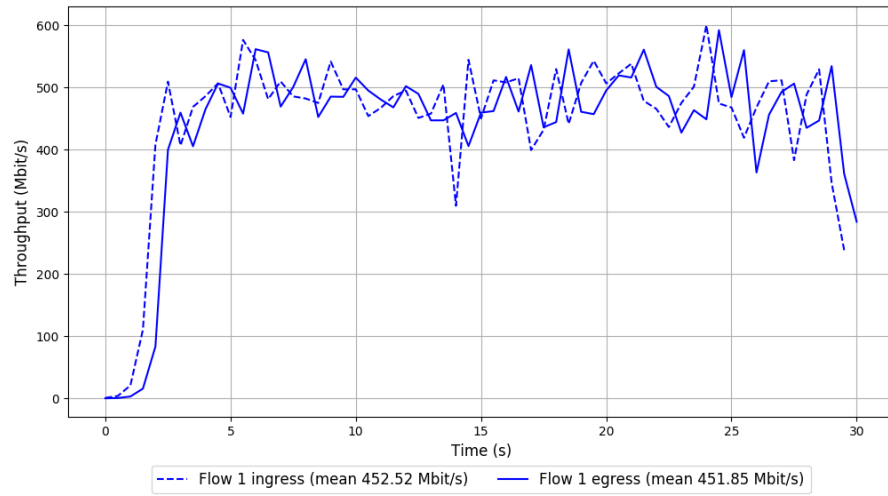
-- Flow 1:

Average throughput: 451.85 Mbit/s

95th percentile per-packet one-way delay: 98.155 ms

Loss rate: 0.15%

### Run 5: Report of Muses\_DecisionTreeH0 — Data Link

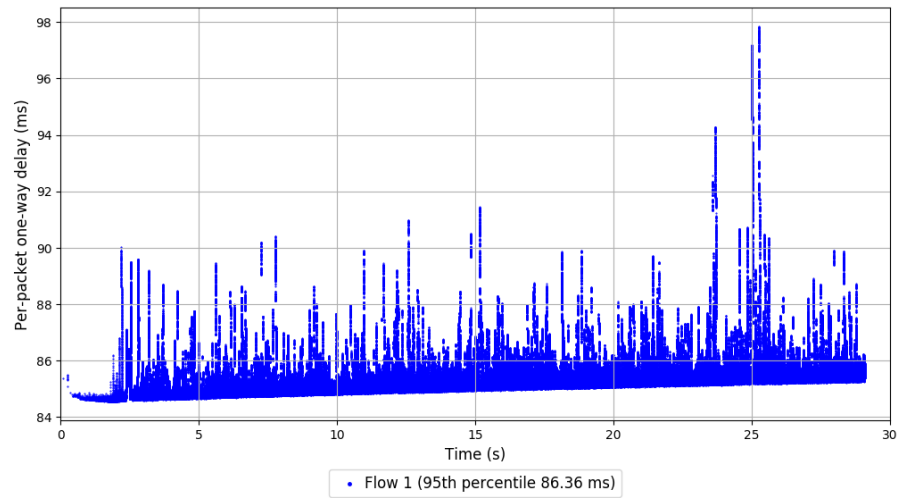
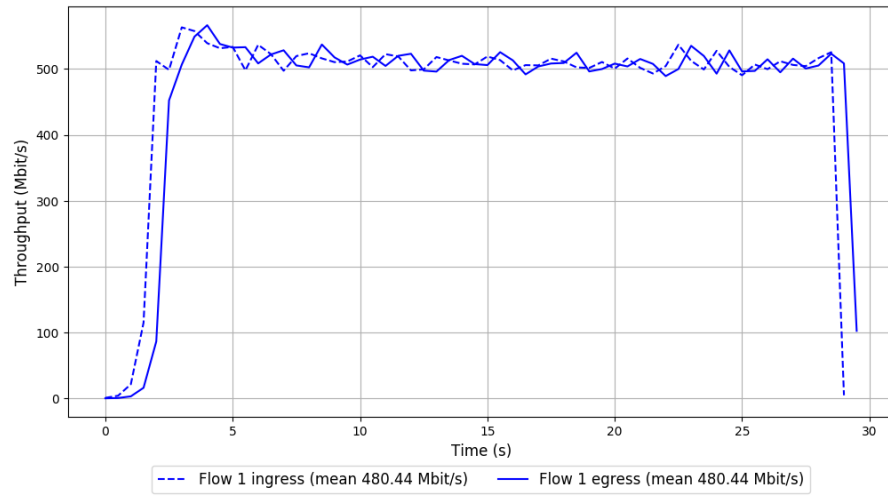


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-17 21:36:00
End at: 2020-02-17 21:36:30
Local clock offset: 2.043 ms
Remote clock offset: 8.904 ms

# Below is generated by plot.py at 2020-02-18 02:20:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 480.44 Mbit/s
95th percentile per-packet one-way delay: 86.355 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 480.44 Mbit/s
95th percentile per-packet one-way delay: 86.355 ms
Loss rate: 0.00%
```

Run 1: Report of Muses\_DecisionTreeR0 — Data Link

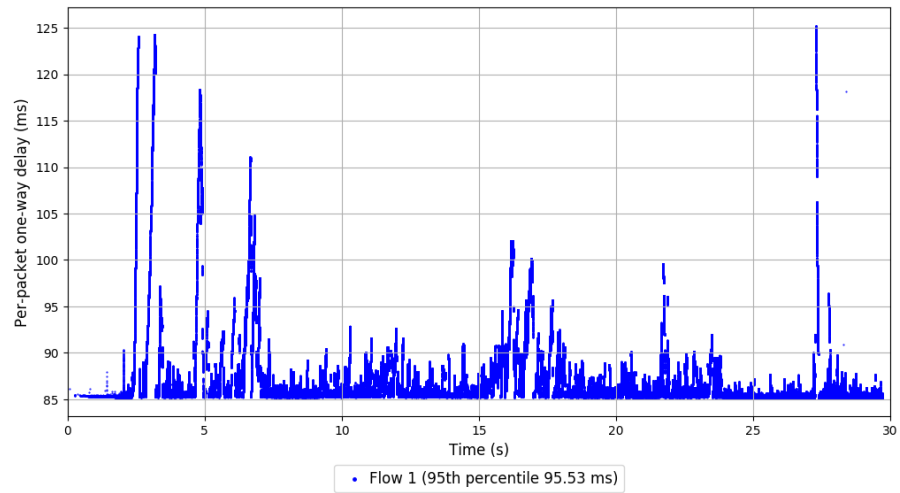
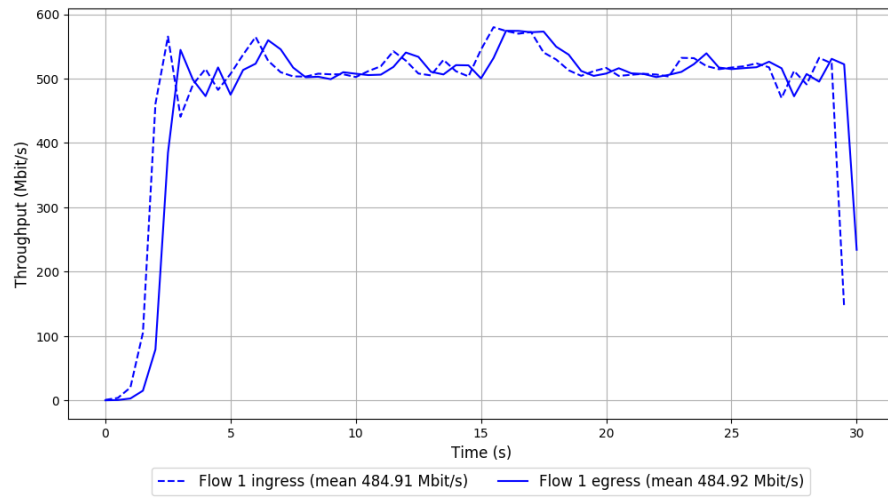


Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2020-02-17 22:10:46  
End at: 2020-02-17 22:11:16  
Local clock offset: 3.964 ms  
Remote clock offset: 14.513 ms

# Below is generated by plot.py at 2020-02-18 02:22:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 484.92 Mbit/s  
95th percentile per-packet one-way delay: 95.527 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 484.92 Mbit/s  
95th percentile per-packet one-way delay: 95.527 ms  
Loss rate: 0.00%

## Run 2: Report of Muses\_DecisionTreeR0 — Data Link

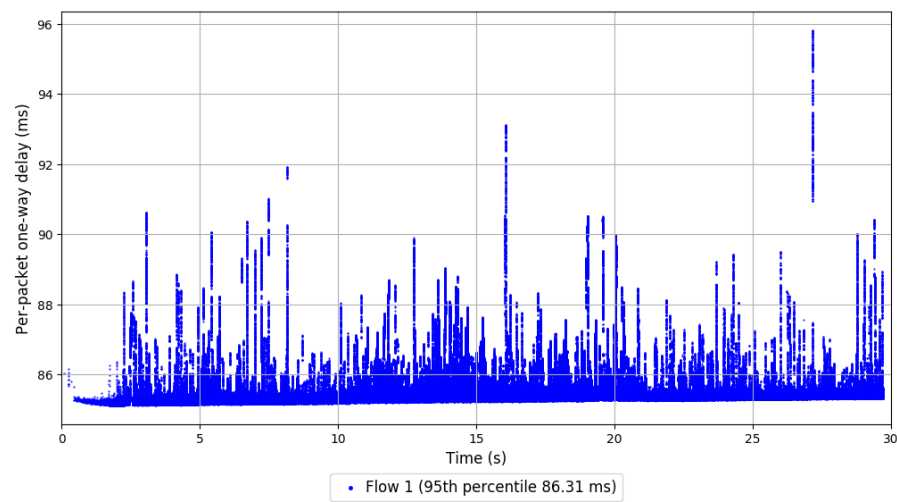
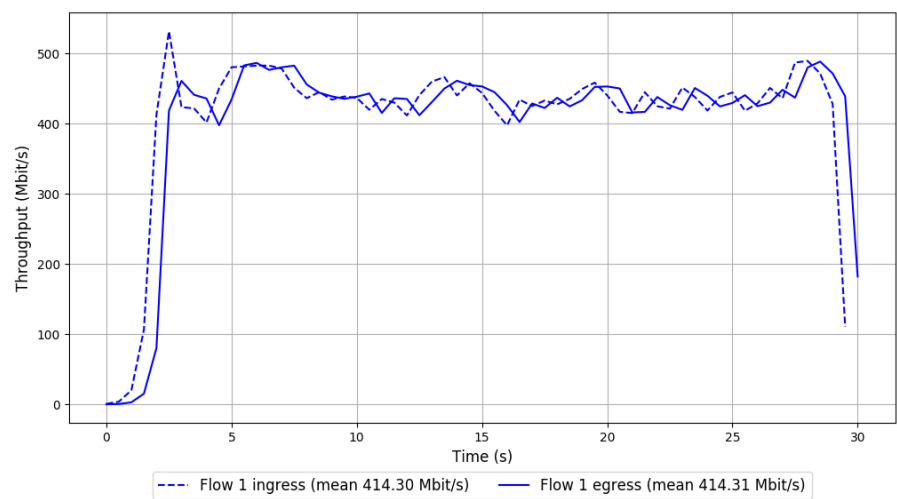


Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2020-02-17 22:45:56  
End at: 2020-02-17 22:46:26  
Local clock offset: 3.264 ms  
Remote clock offset: 13.298 ms

# Below is generated by plot.py at 2020-02-18 02:22:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 414.31 Mbit/s  
95th percentile per-packet one-way delay: 86.308 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 414.31 Mbit/s  
95th percentile per-packet one-way delay: 86.308 ms  
Loss rate: 0.00%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link





Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2020-02-17 23:21:34

End at: 2020-02-17 23:22:04

Local clock offset: 1.489 ms

Remote clock offset: 6.107 ms

# Below is generated by plot.py at 2020-02-18 02:22:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 404.16 Mbit/s

95th percentile per-packet one-way delay: 85.642 ms

Loss rate: 0.00%

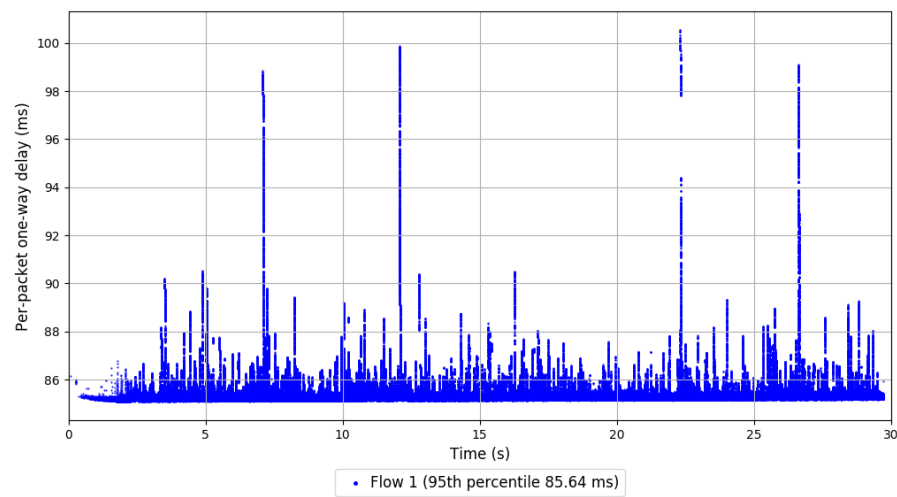
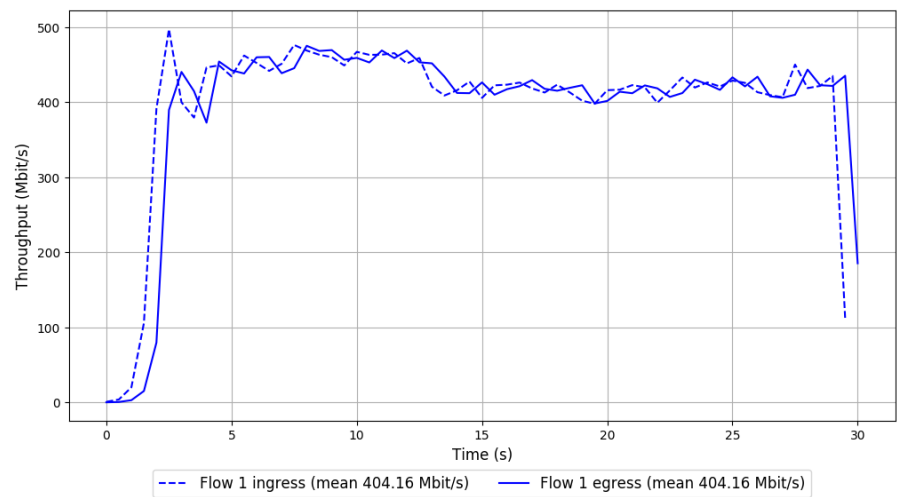
-- Flow 1:

Average throughput: 404.16 Mbit/s

95th percentile per-packet one-way delay: 85.642 ms

Loss rate: 0.00%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2020-02-17 23:56:39

End at: 2020-02-17 23:57:09

Local clock offset: 0.561 ms

Remote clock offset: 2.092 ms

# Below is generated by plot.py at 2020-02-18 02:24:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 450.25 Mbit/s

95th percentile per-packet one-way delay: 90.812 ms

Loss rate: 0.00%

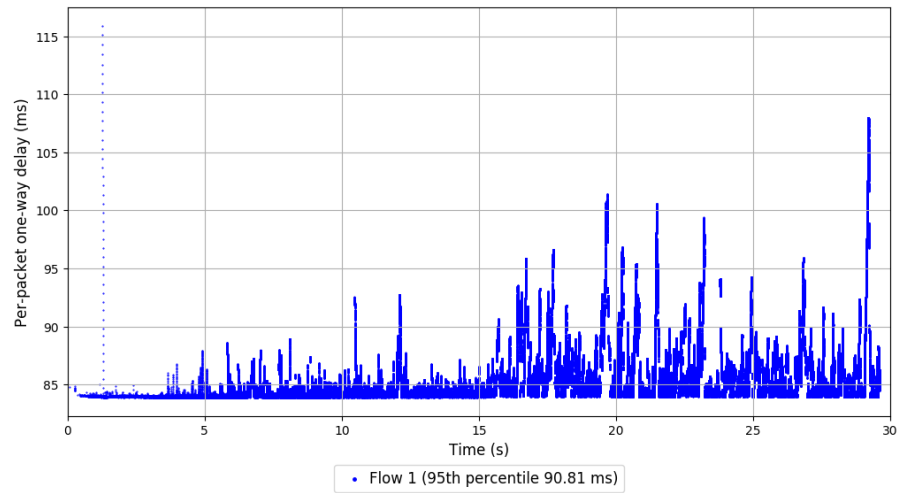
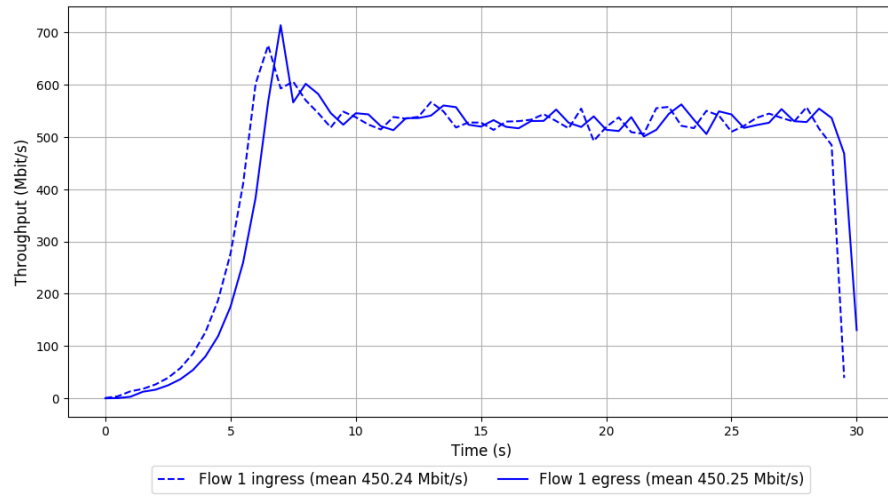
-- Flow 1:

Average throughput: 450.25 Mbit/s

95th percentile per-packet one-way delay: 90.812 ms

Loss rate: 0.00%

### Run 5: Report of Muses\_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2020-02-17 21:46:19

End at: 2020-02-17 21:46:49

Local clock offset: 3.038 ms

Remote clock offset: 10.978 ms

# Below is generated by plot.py at 2020-02-18 02:34:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 420.51 Mbit/s

95th percentile per-packet one-way delay: 206.668 ms

Loss rate: 2.06%

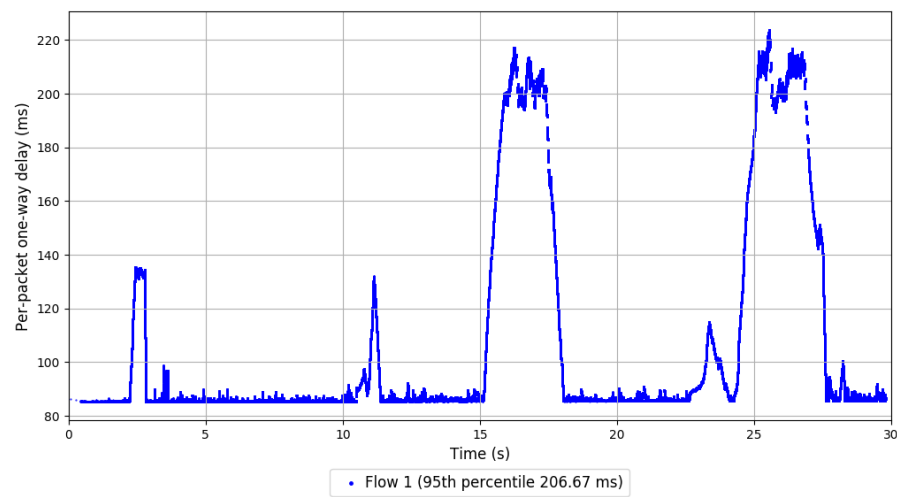
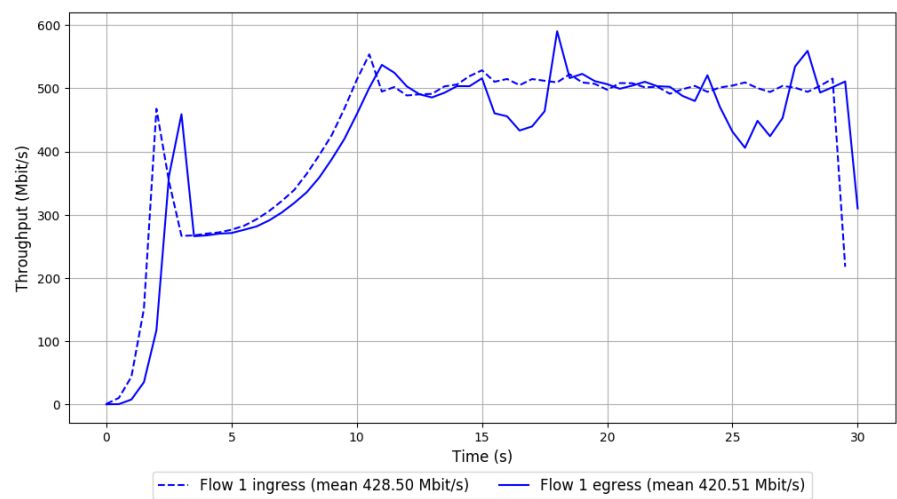
-- Flow 1:

Average throughput: 420.51 Mbit/s

95th percentile per-packet one-way delay: 206.668 ms

Loss rate: 2.06%

Run 1: Report of PCC-Allegro — Data Link

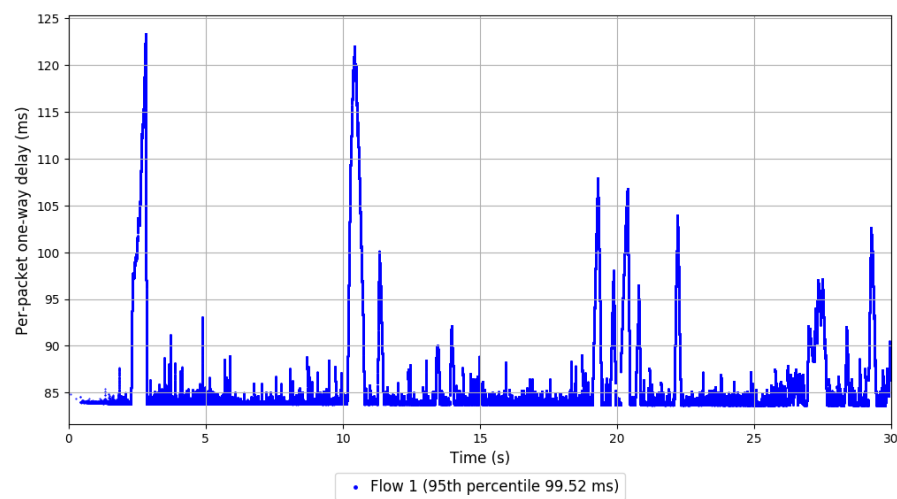
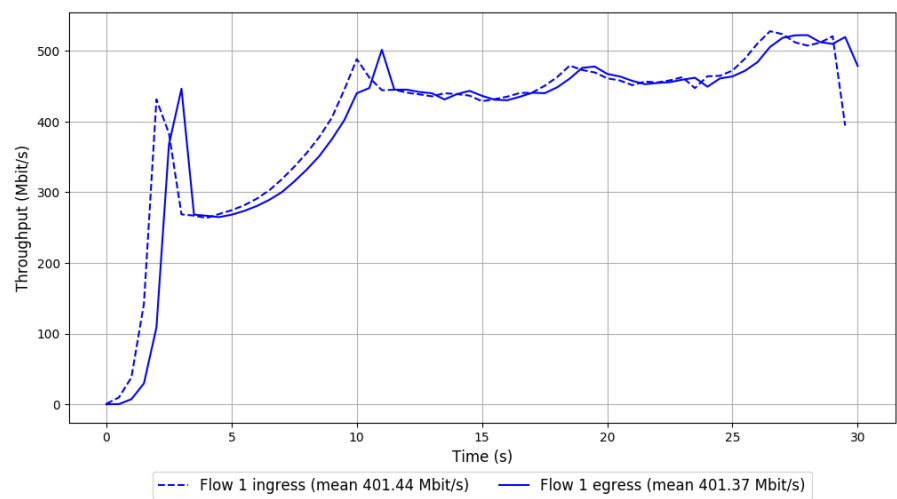


Run 2: Statistics of PCC-Allegro

Start at: 2020-02-17 22:21:11  
End at: 2020-02-17 22:21:41  
Local clock offset: 4.642 ms  
Remote clock offset: 18.539 ms

# Below is generated by plot.py at 2020-02-18 02:37:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 401.37 Mbit/s  
95th percentile per-packet one-way delay: 99.521 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 401.37 Mbit/s  
95th percentile per-packet one-way delay: 99.521 ms  
Loss rate: 0.01%

Run 2: Report of PCC-Allegro — Data Link





Run 3: Statistics of PCC-Allegro

Start at: 2020-02-17 22:56:13

End at: 2020-02-17 22:56:44

Local clock offset: 3.078 ms

Remote clock offset: 11.293 ms

# Below is generated by plot.py at 2020-02-18 02:42:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 452.82 Mbit/s

95th percentile per-packet one-way delay: 213.707 ms

Loss rate: 5.31%

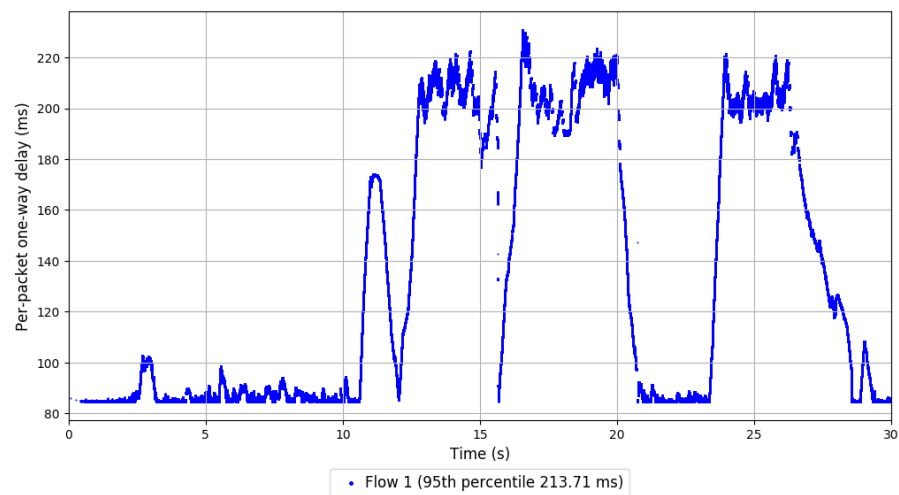
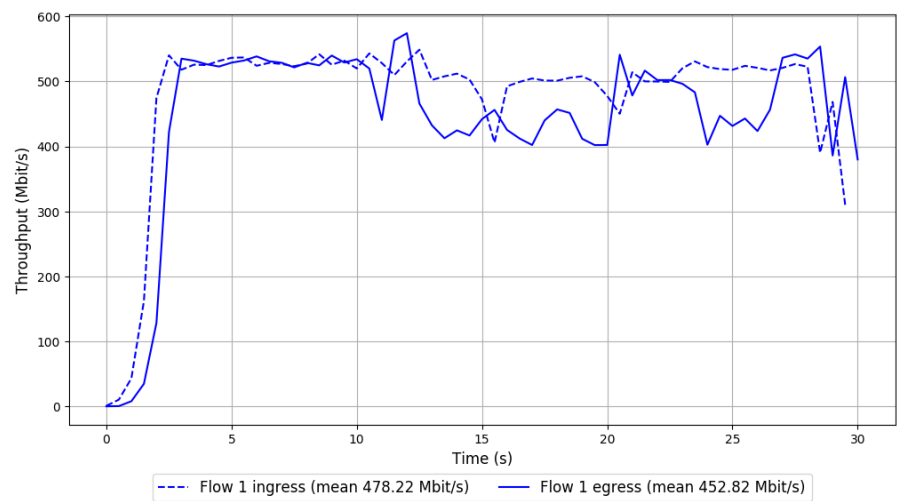
-- Flow 1:

Average throughput: 452.82 Mbit/s

95th percentile per-packet one-way delay: 213.707 ms

Loss rate: 5.31%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2020-02-17 23:31:45

End at: 2020-02-17 23:32:15

Local clock offset: 1.322 ms

Remote clock offset: 5.416 ms

# Below is generated by plot.py at 2020-02-18 02:44:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 460.14 Mbit/s

95th percentile per-packet one-way delay: 179.688 ms

Loss rate: 0.43%

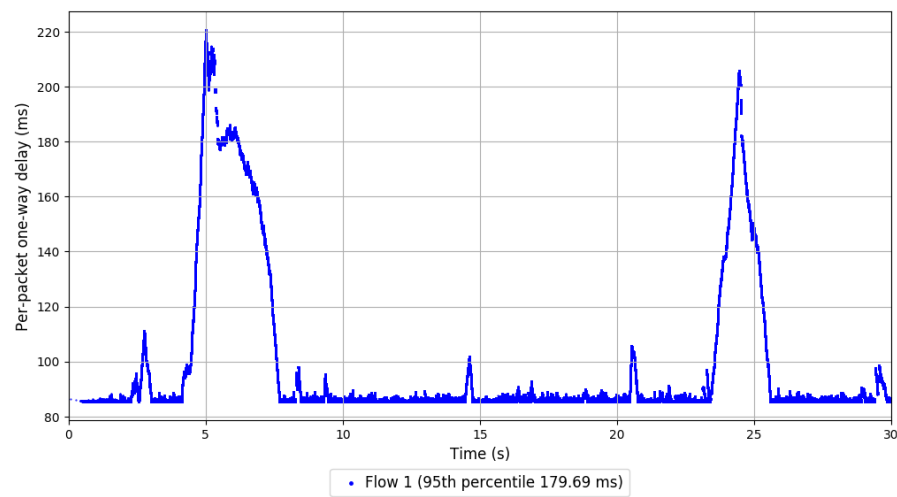
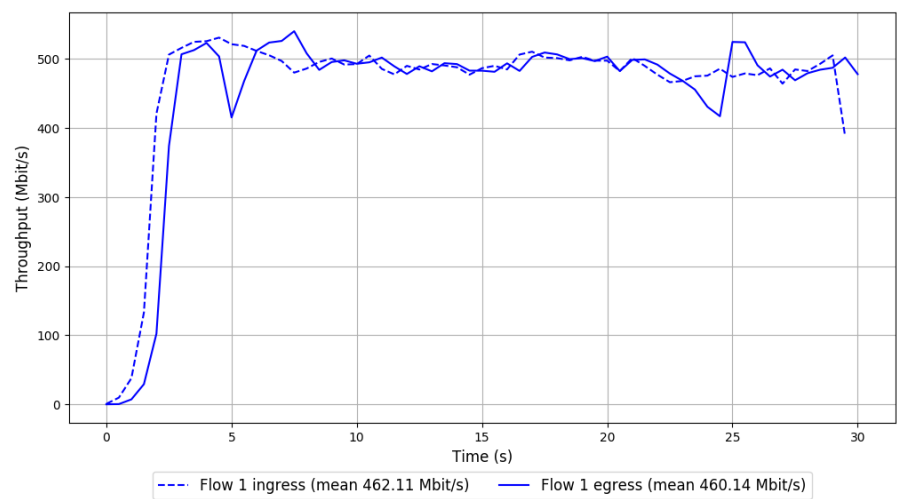
-- Flow 1:

Average throughput: 460.14 Mbit/s

95th percentile per-packet one-way delay: 179.688 ms

Loss rate: 0.43%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2020-02-18 00:06:57

End at: 2020-02-18 00:07:27

Local clock offset: 0.363 ms

Remote clock offset: 1.443 ms

# Below is generated by plot.py at 2020-02-18 02:44:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 362.29 Mbit/s

95th percentile per-packet one-way delay: 168.355 ms

Loss rate: 0.49%

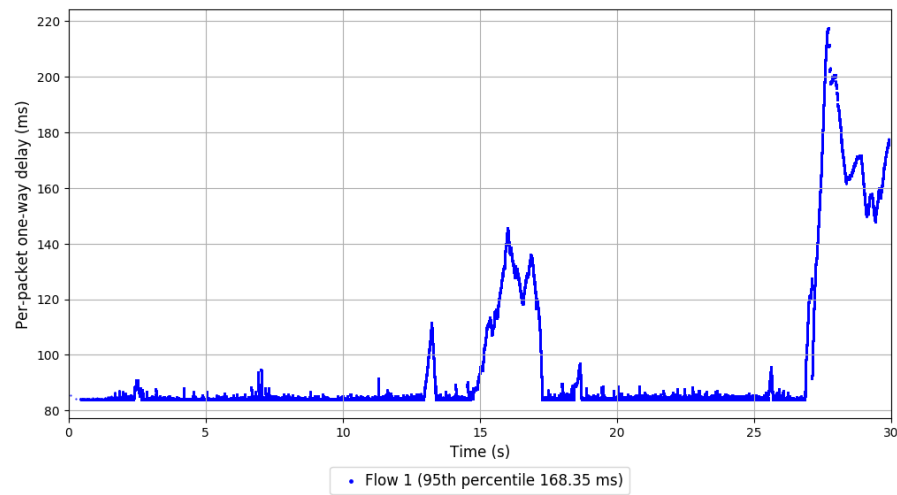
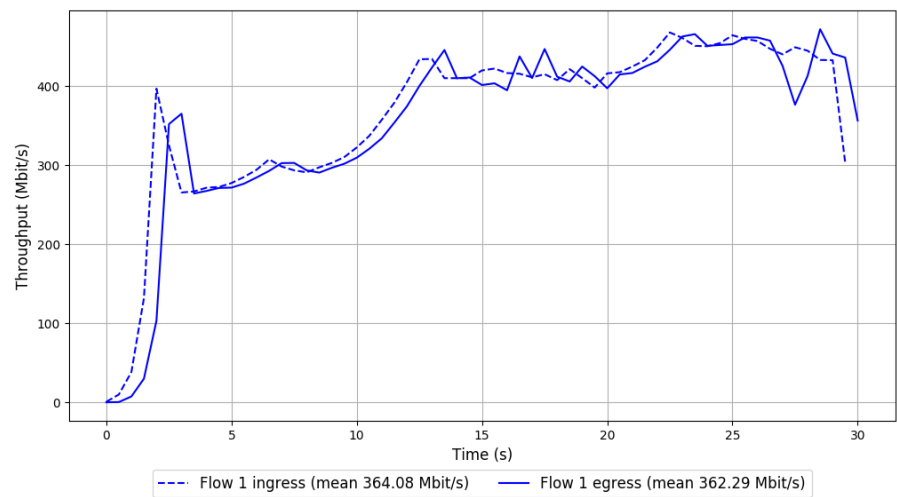
-- Flow 1:

Average throughput: 362.29 Mbit/s

95th percentile per-packet one-way delay: 168.355 ms

Loss rate: 0.49%

Run 5: Report of PCC-Allegro — Data Link

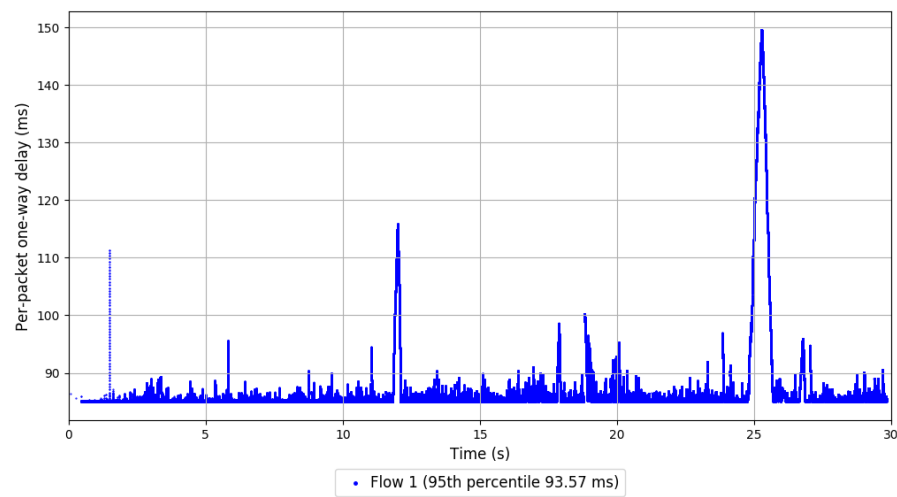
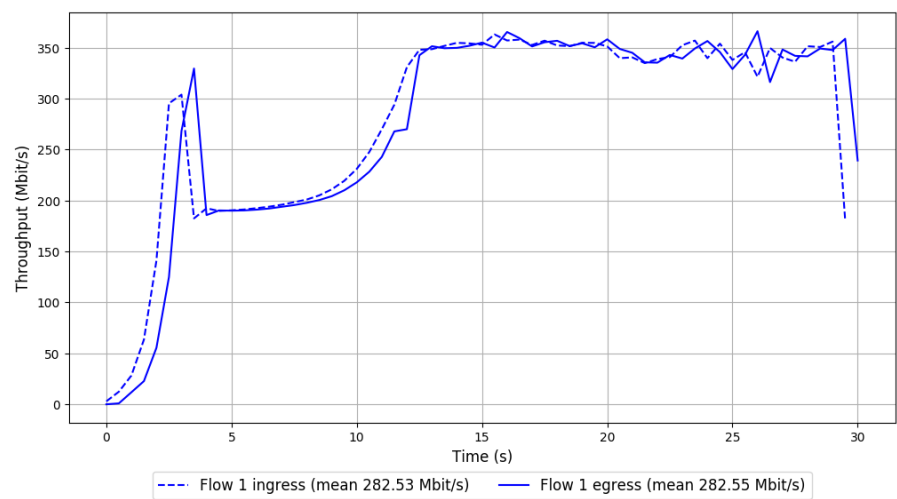


```
Run 1: Statistics of PCC-Expr

Start at: 2020-02-17 21:47:58
End at: 2020-02-17 21:48:28
Local clock offset: 2.446 ms
Remote clock offset: 9.838 ms

# Below is generated by plot.py at 2020-02-18 02:44:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 282.55 Mbit/s
95th percentile per-packet one-way delay: 93.567 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 282.55 Mbit/s
95th percentile per-packet one-way delay: 93.567 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Expr — Data Link



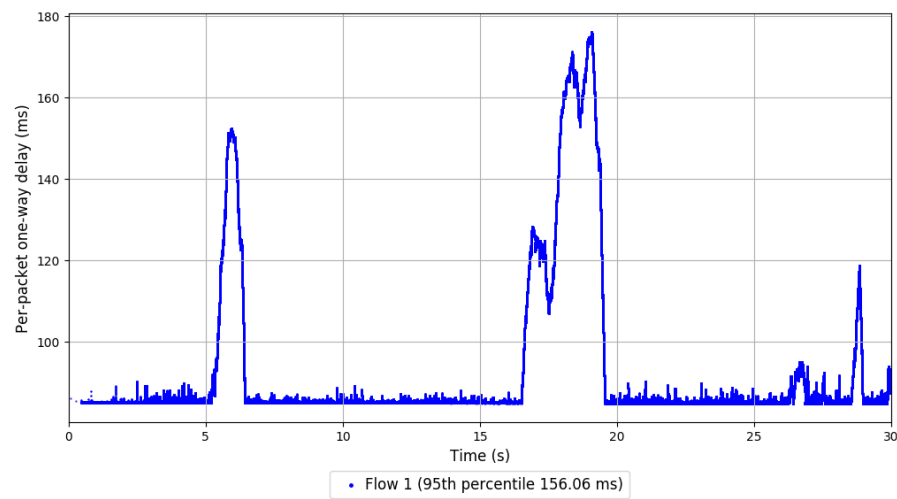
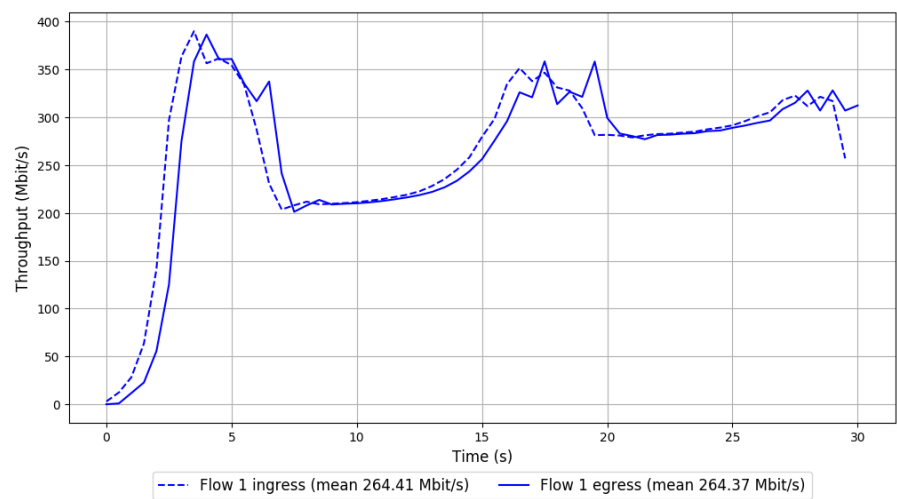


Run 2: Statistics of PCC-Expr

Start at: 2020-02-17 22:22:48  
End at: 2020-02-17 22:23:18  
Local clock offset: 4.928 ms  
Remote clock offset: 19.516 ms

# Below is generated by plot.py at 2020-02-18 02:44:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 264.37 Mbit/s  
95th percentile per-packet one-way delay: 156.055 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 264.37 Mbit/s  
95th percentile per-packet one-way delay: 156.055 ms  
Loss rate: 0.02%

Run 2: Report of PCC-Expr — Data Link

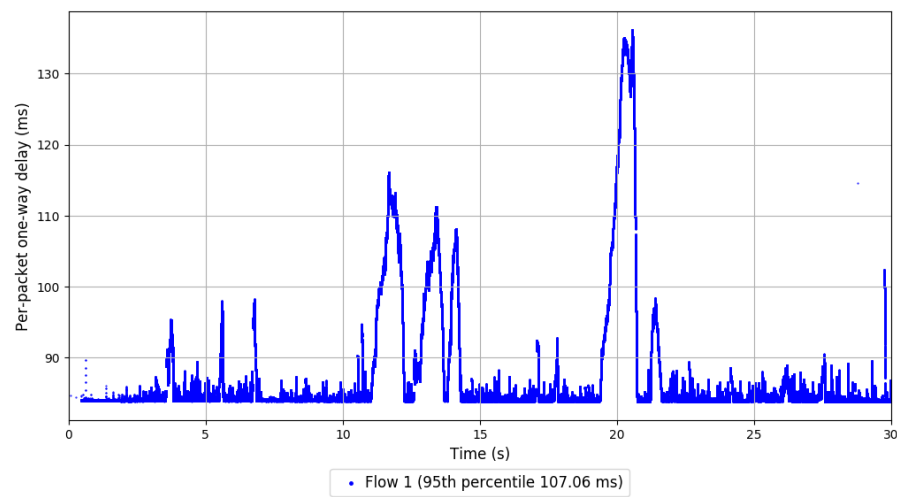
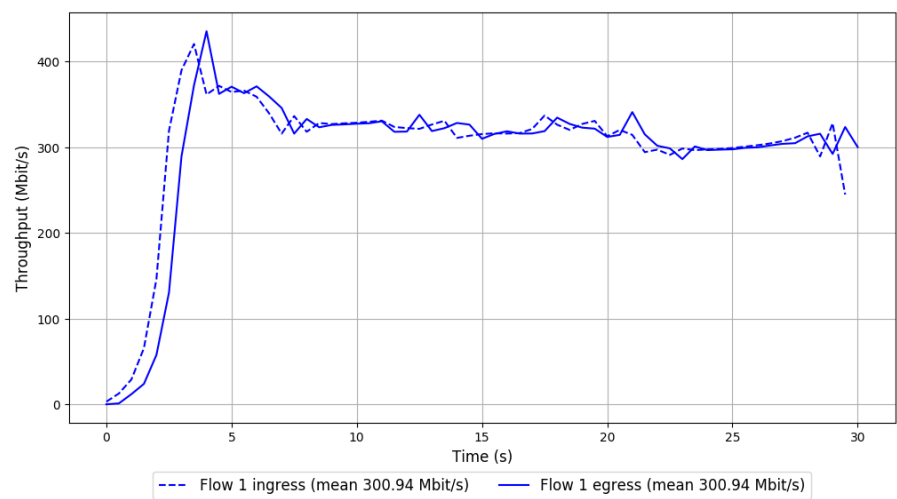


Run 3: Statistics of PCC-Expr

Start at: 2020-02-17 22:57:55  
End at: 2020-02-17 22:58:25  
Local clock offset: 2.9 ms  
Remote clock offset: 11.557 ms

# Below is generated by plot.py at 2020-02-18 02:44:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 300.94 Mbit/s  
95th percentile per-packet one-way delay: 107.065 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 300.94 Mbit/s  
95th percentile per-packet one-way delay: 107.065 ms  
Loss rate: 0.00%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2020-02-17 23:33:25

End at: 2020-02-17 23:33:55

Local clock offset: 1.371 ms

Remote clock offset: 5.499 ms

# Below is generated by plot.py at 2020-02-18 02:45:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 217.23 Mbit/s

95th percentile per-packet one-way delay: 87.041 ms

Loss rate: 0.00%

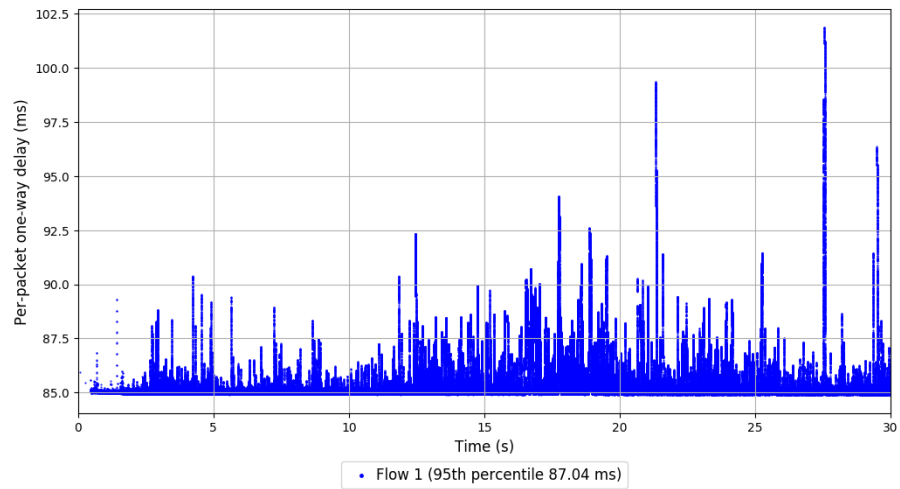
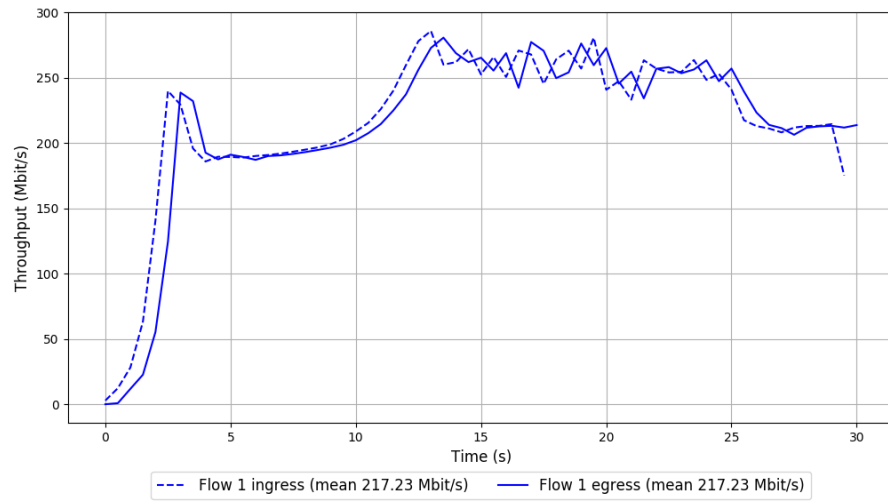
-- Flow 1:

Average throughput: 217.23 Mbit/s

95th percentile per-packet one-way delay: 87.041 ms

Loss rate: 0.00%

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



Run 5: Statistics of PCC-Expr

Start at: 2020-02-18 00:08:32

End at: 2020-02-18 00:09:02

Local clock offset: 0.39 ms

Remote clock offset: 1.395 ms

# Below is generated by plot.py at 2020-02-18 02:46:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 233.41 Mbit/s

95th percentile per-packet one-way delay: 90.093 ms

Loss rate: 0.00%

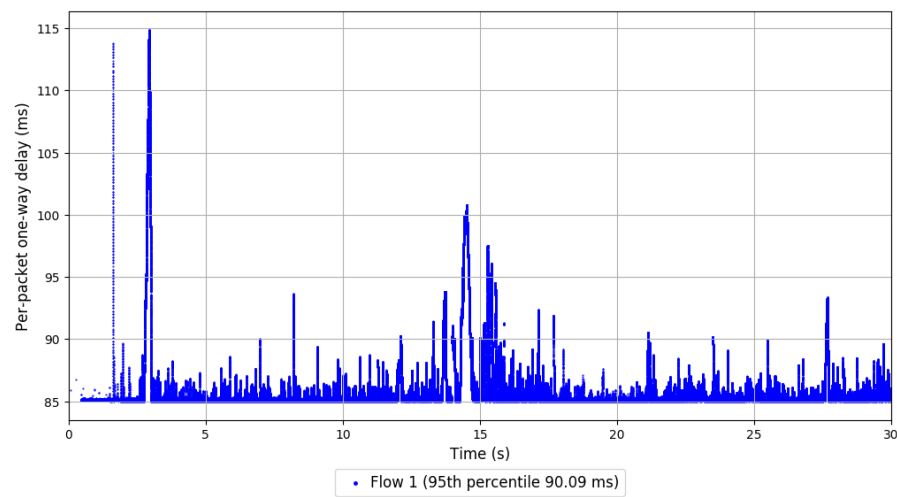
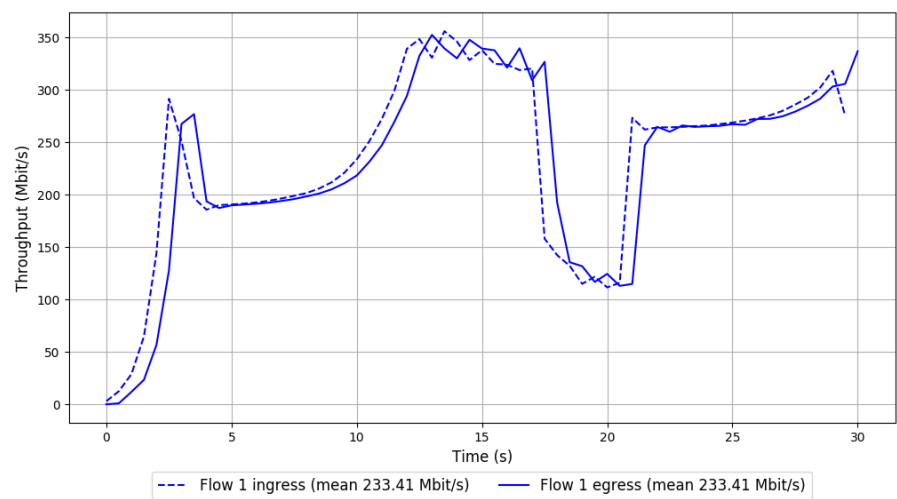
-- Flow 1:

Average throughput: 233.41 Mbit/s

95th percentile per-packet one-way delay: 90.093 ms

Loss rate: 0.00%

Run 5: Report of PCC-Expr — Data Link





Run 1: Statistics of QUIC Cubic

Start at: 2020-02-17 21:39:16

End at: 2020-02-17 21:39:46

Local clock offset: 1.865 ms

Remote clock offset: 6.913 ms

# Below is generated by plot.py at 2020-02-18 02:46:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.20 Mbit/s

95th percentile per-packet one-way delay: 83.703 ms

Loss rate: 0.00%

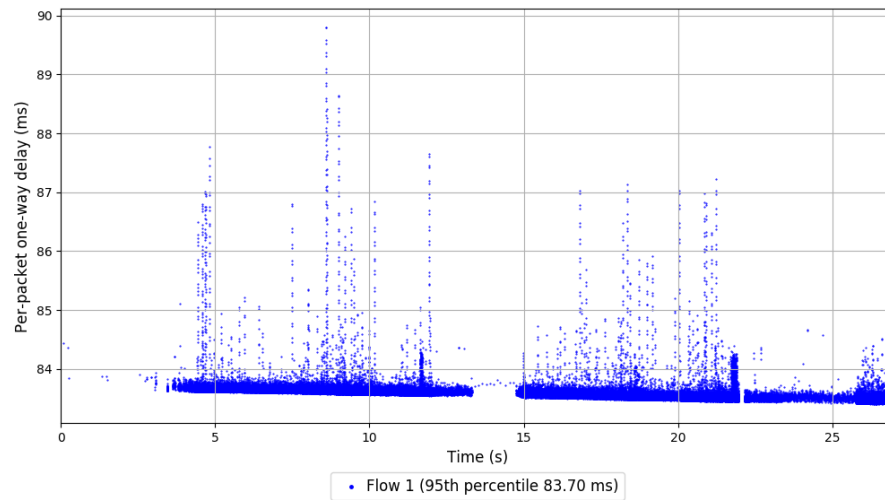
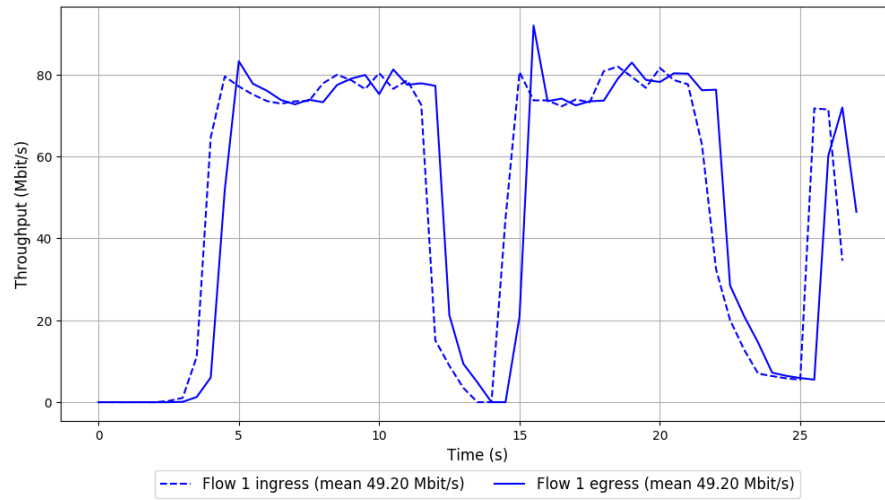
-- Flow 1:

Average throughput: 49.20 Mbit/s

95th percentile per-packet one-way delay: 83.703 ms

Loss rate: 0.00%

# Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2020-02-17 22:14:02

End at: 2020-02-17 22:14:32

Local clock offset: 3.799 ms

Remote clock offset: 15.123 ms

# Below is generated by plot.py at 2020-02-18 02:46:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 58.75 Mbit/s

95th percentile per-packet one-way delay: 85.275 ms

Loss rate: 0.00%

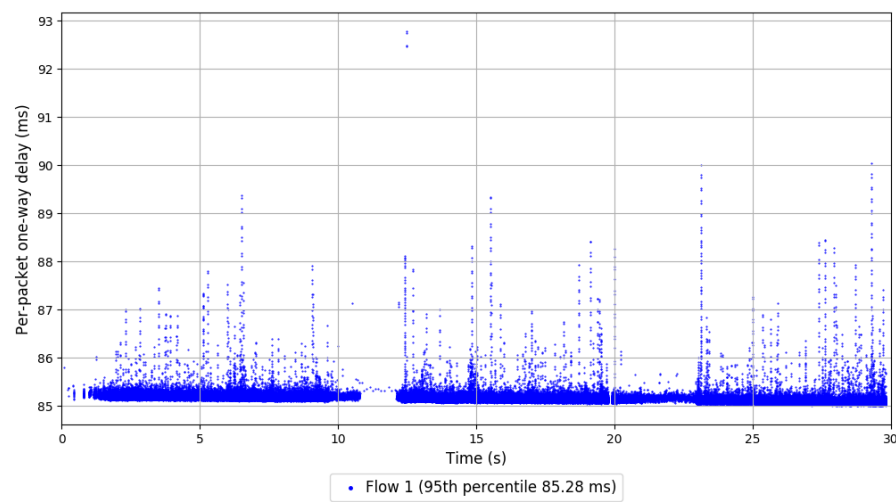
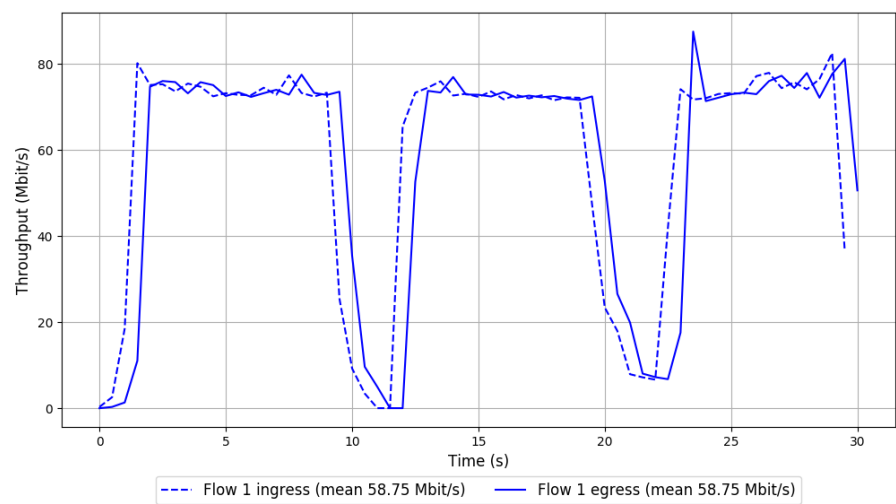
-- Flow 1:

Average throughput: 58.75 Mbit/s

95th percentile per-packet one-way delay: 85.275 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2020-02-17 22:49:10

End at: 2020-02-17 22:49:40

Local clock offset: 2.901 ms

Remote clock offset: 11.847 ms

# Below is generated by plot.py at 2020-02-18 02:46:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 61.55 Mbit/s

95th percentile per-packet one-way delay: 85.693 ms

Loss rate: 0.00%

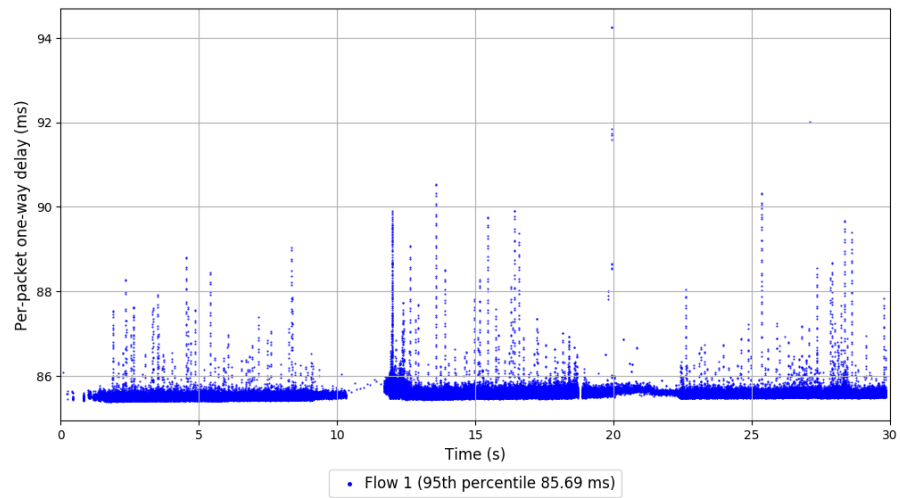
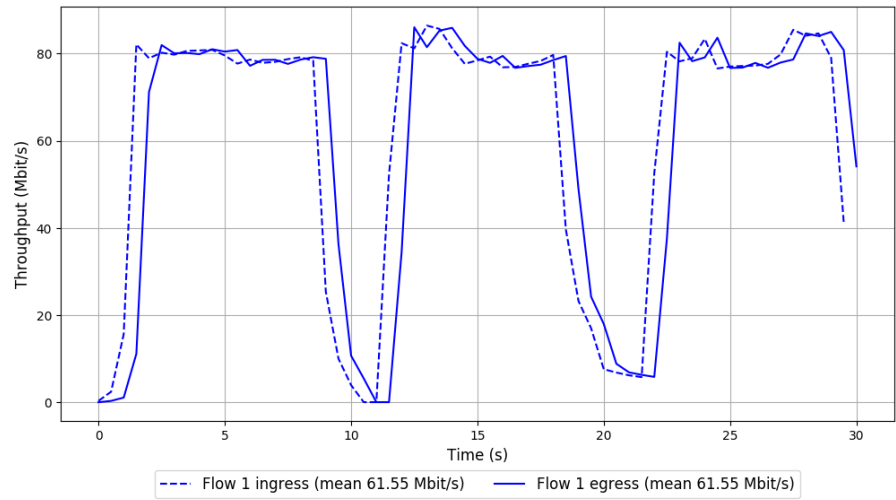
-- Flow 1:

Average throughput: 61.55 Mbit/s

95th percentile per-packet one-way delay: 85.693 ms

Loss rate: 0.00%

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



Run 4: Statistics of QUIC Cubic

Start at: 2020-02-17 23:24:41

End at: 2020-02-17 23:25:11

Local clock offset: 1.341 ms

Remote clock offset: 5.524 ms

# Below is generated by plot.py at 2020-02-18 02:46:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 59.61 Mbit/s

95th percentile per-packet one-way delay: 84.131 ms

Loss rate: 0.00%

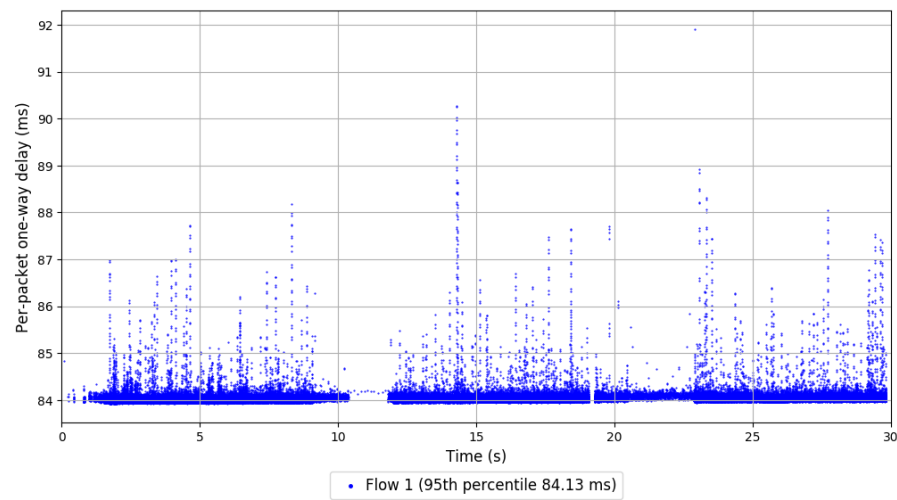
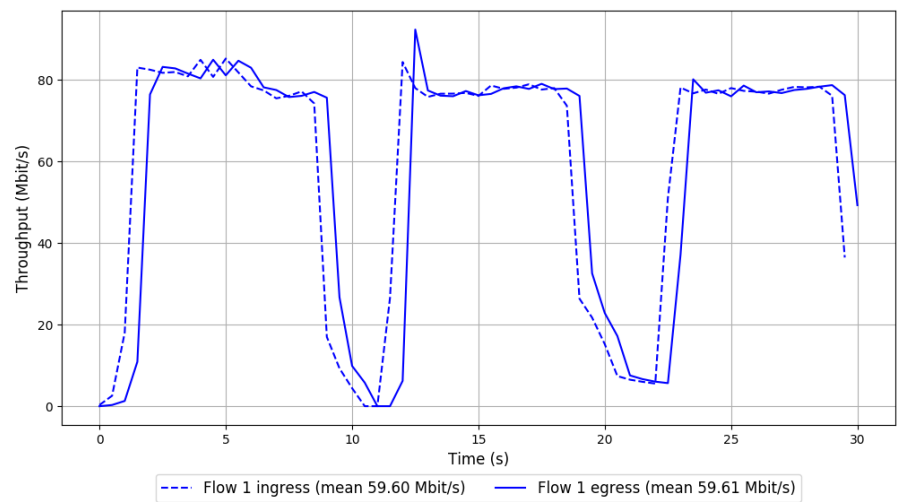
-- Flow 1:

Average throughput: 59.61 Mbit/s

95th percentile per-packet one-way delay: 84.131 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link





Run 5: Statistics of QUIC Cubic

Start at: 2020-02-17 23:59:54

End at: 2020-02-18 00:00:24

Local clock offset: 0.434 ms

Remote clock offset: 1.736 ms

# Below is generated by plot.py at 2020-02-18 02:46:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 58.57 Mbit/s

95th percentile per-packet one-way delay: 84.097 ms

Loss rate: 0.00%

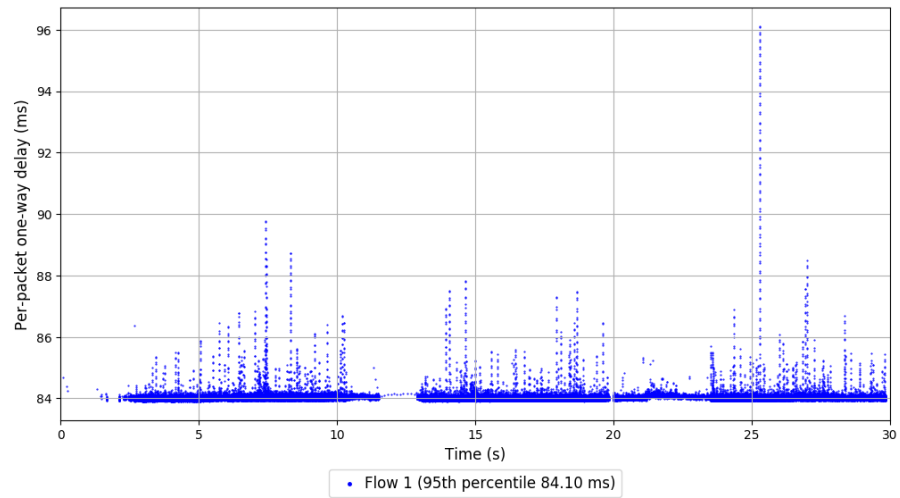
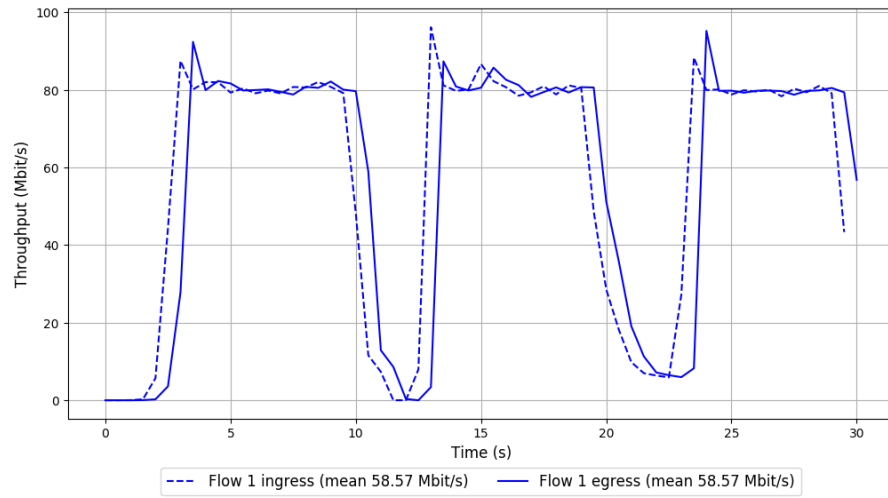
-- Flow 1:

Average throughput: 58.57 Mbit/s

95th percentile per-packet one-way delay: 84.097 ms

Loss rate: 0.00%

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



Run 1: Statistics of SCReAM

Start at: 2020-02-17 21:33:42

End at: 2020-02-17 21:34:12

Local clock offset: 1.148 ms

Remote clock offset: 5.025 ms

# Below is generated by plot.py at 2020-02-18 02:46:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.592 ms

Loss rate: 0.00%

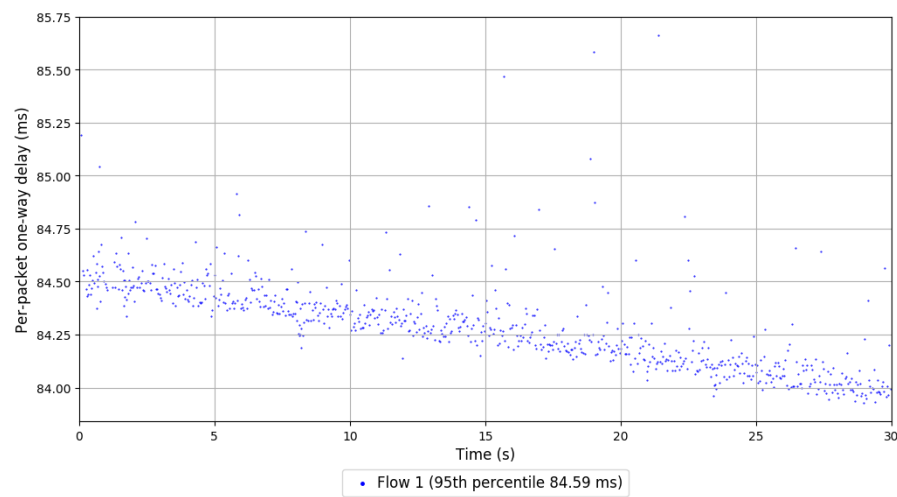
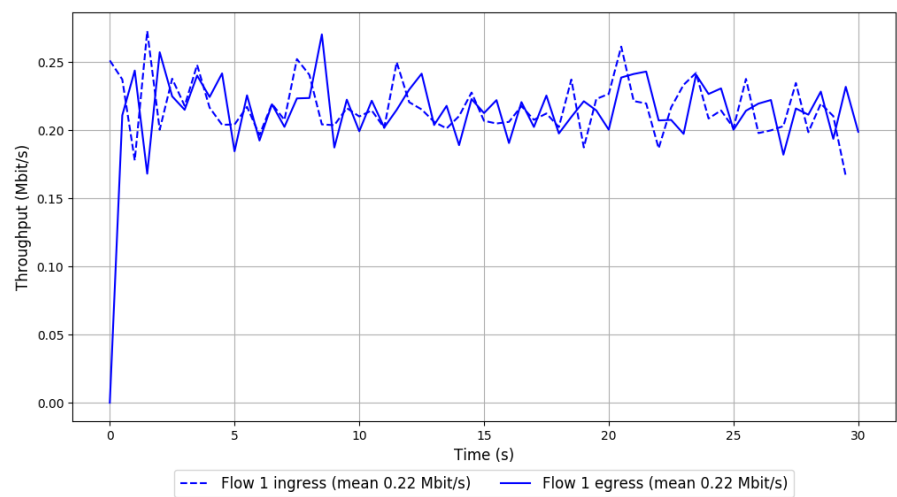
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.592 ms

Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

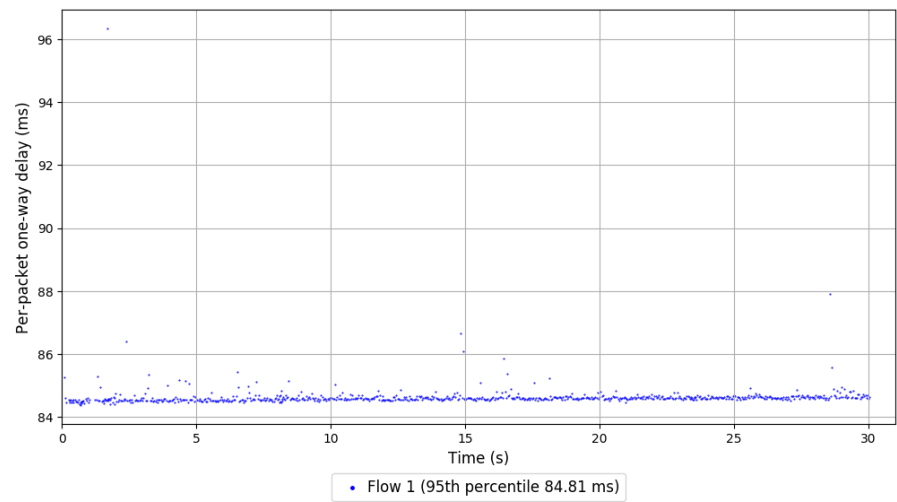
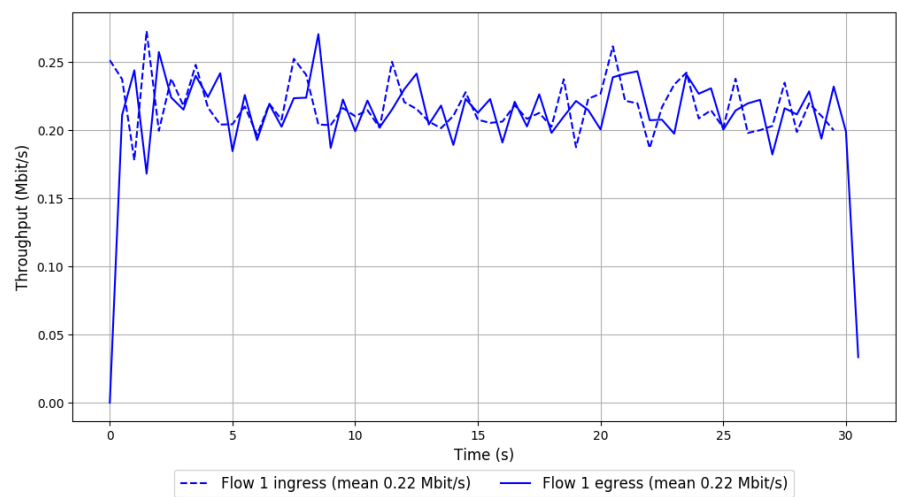


Run 2: Statistics of SCReAM

Start at: 2020-02-17 22:08:28  
End at: 2020-02-17 22:08:58  
Local clock offset: 3.684 ms  
Remote clock offset: 14.695 ms

# Below is generated by plot.py at 2020-02-18 02:46:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 84.813 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 84.813 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

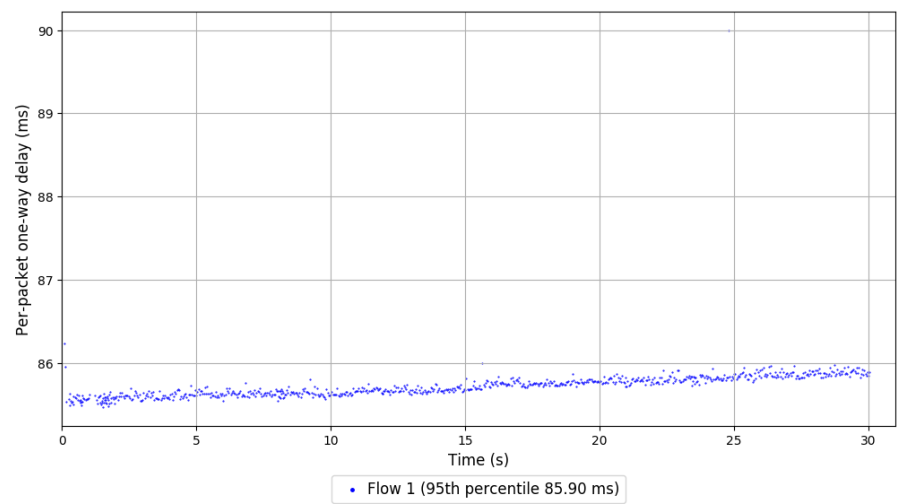
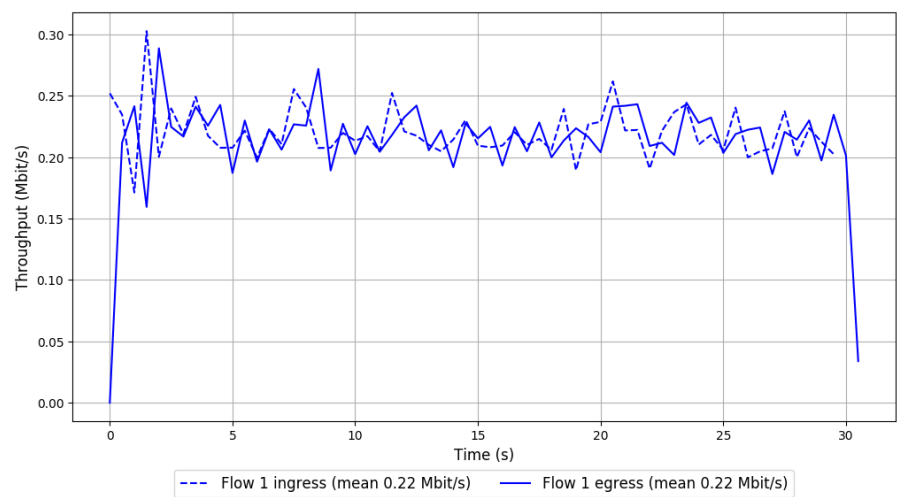


Run 3: Statistics of SCReAM

Start at: 2020-02-17 22:43:38  
End at: 2020-02-17 22:44:08  
Local clock offset: 3.832 ms  
Remote clock offset: 15.239 ms

# Below is generated by plot.py at 2020-02-18 02:46:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 85.898 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 85.898 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link





Run 4: Statistics of SCReAM

Start at: 2020-02-17 23:19:16

End at: 2020-02-17 23:19:46

Local clock offset: 1.656 ms

Remote clock offset: 6.825 ms

# Below is generated by plot.py at 2020-02-18 02:46:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.374 ms

Loss rate: 0.00%

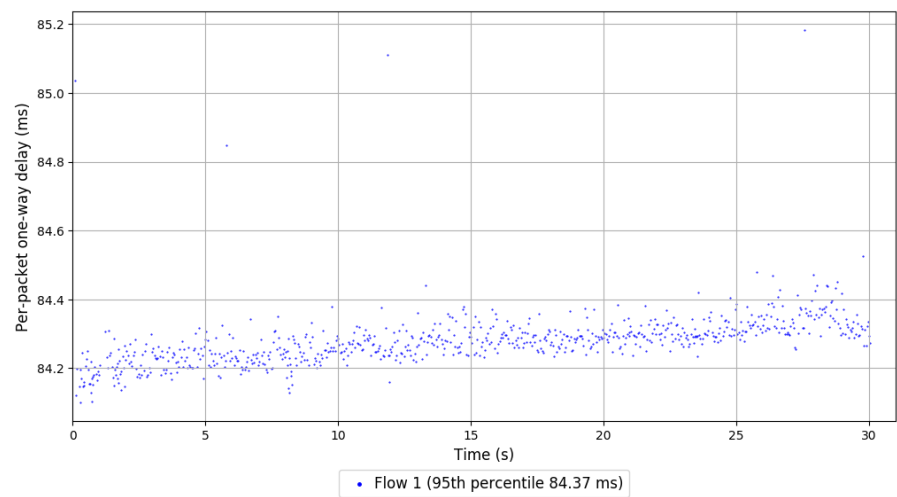
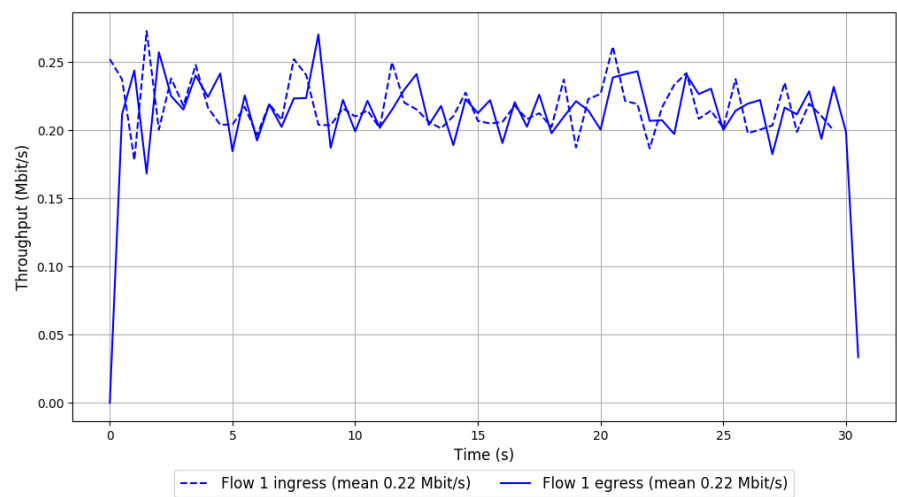
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.374 ms

Loss rate: 0.00%

Run 4: Report of SCReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2020-02-17 23:54:21

End at: 2020-02-17 23:54:51

Local clock offset: 0.624 ms

Remote clock offset: 2.518 ms

# Below is generated by plot.py at 2020-02-18 02:46:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.420 ms

Loss rate: 0.00%

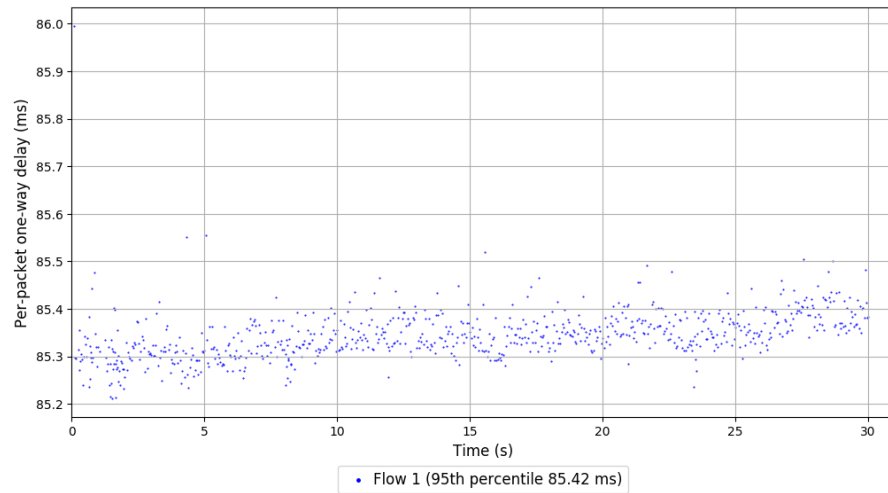
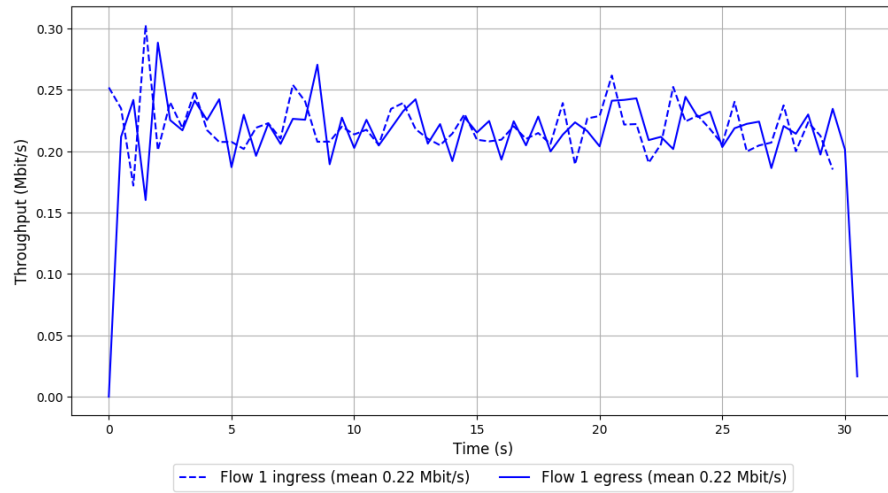
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.420 ms

Loss rate: 0.00%

## Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2020-02-17 21:42:00

End at: 2020-02-17 21:42:30

Local clock offset: 2.257 ms

Remote clock offset: 9.724 ms

# Below is generated by plot.py at 2020-02-18 02:46:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.61 Mbit/s

95th percentile per-packet one-way delay: 85.709 ms

Loss rate: 0.00%

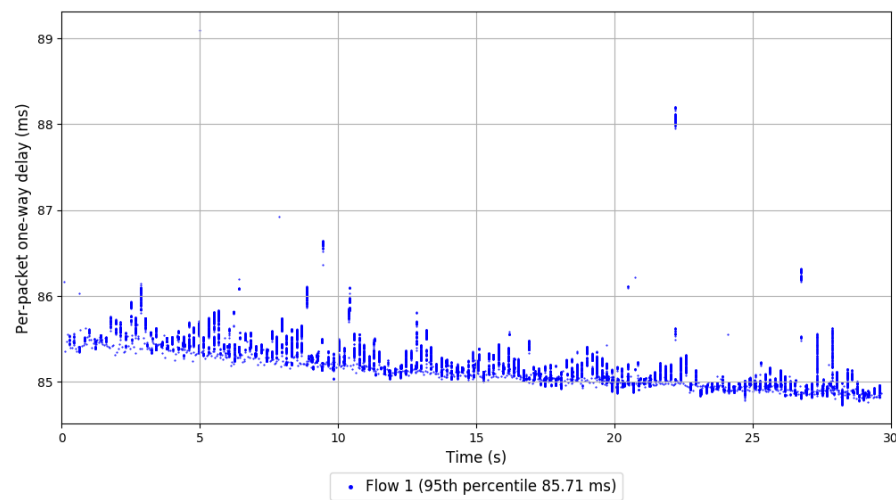
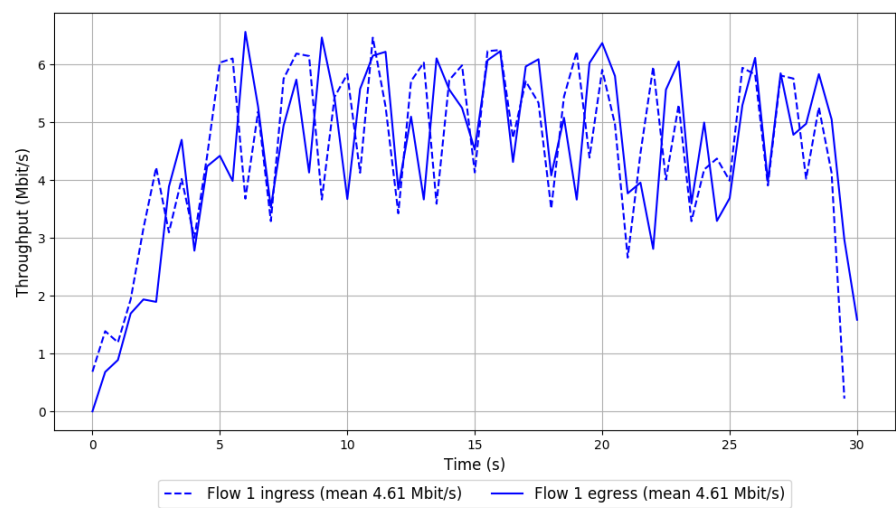
-- Flow 1:

Average throughput: 4.61 Mbit/s

95th percentile per-packet one-way delay: 85.709 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

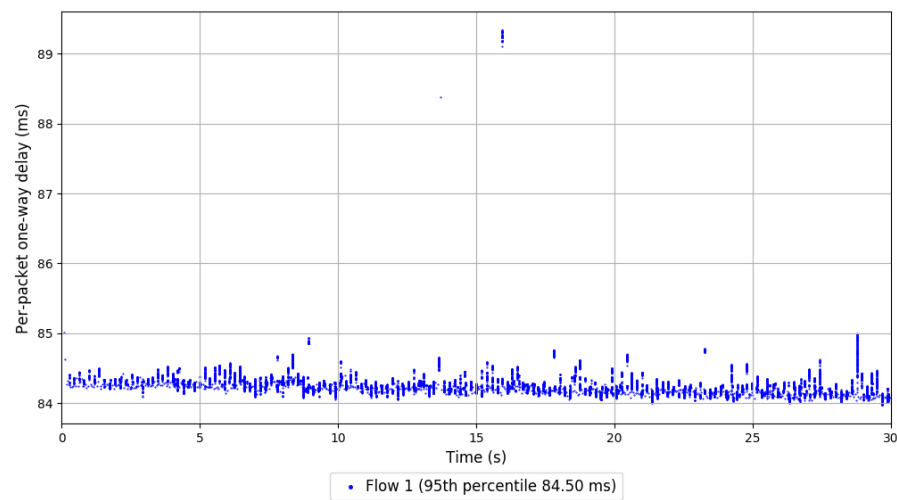
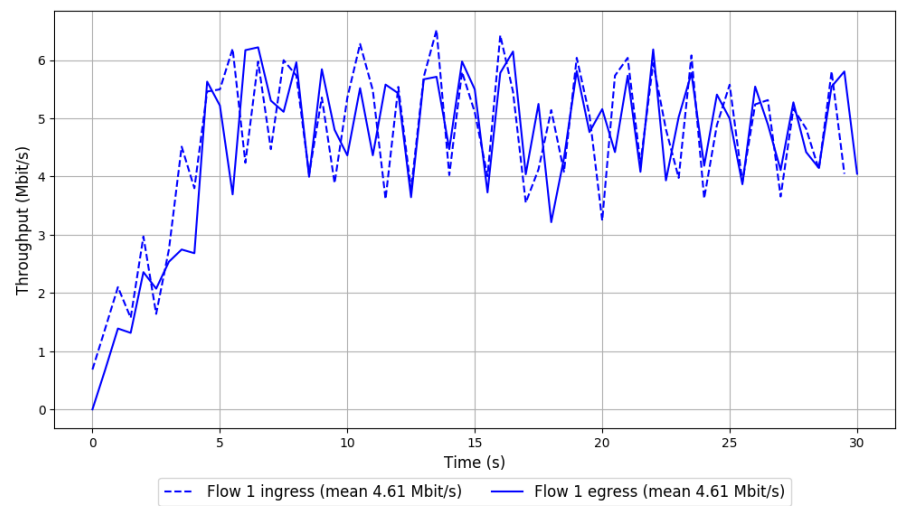


Run 2: Statistics of Sprout

Start at: 2020-02-17 22:16:48  
End at: 2020-02-17 22:17:18  
Local clock offset: 4.034 ms  
Remote clock offset: 16.115 ms

# Below is generated by plot.py at 2020-02-18 02:46:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 4.61 Mbit/s  
95th percentile per-packet one-way delay: 84.501 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 4.61 Mbit/s  
95th percentile per-packet one-way delay: 84.501 ms  
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



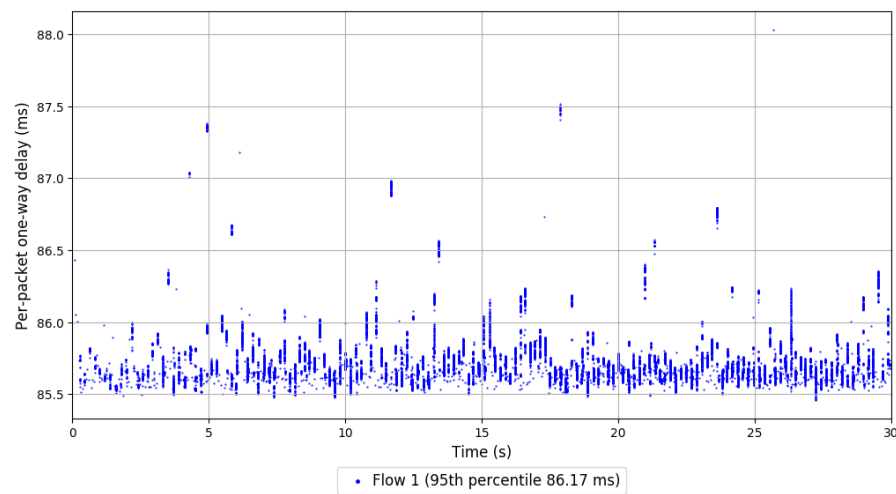
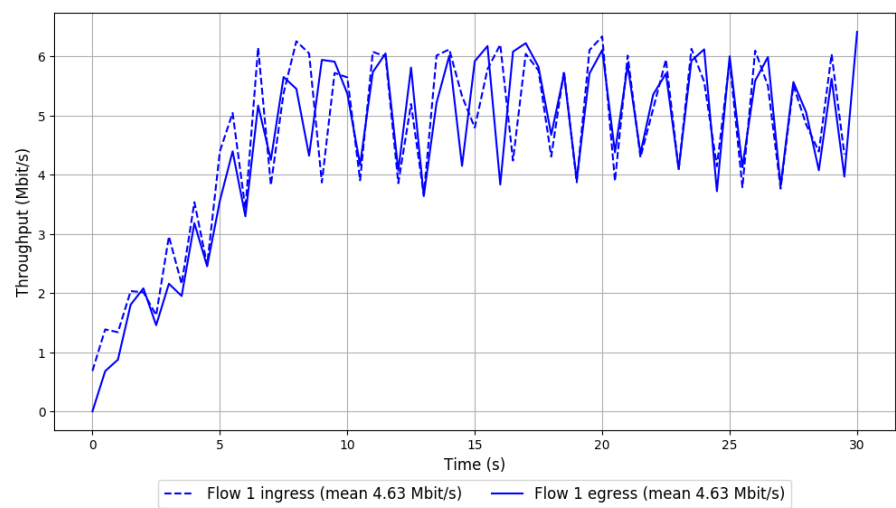


Run 3: Statistics of Sprout

Start at: 2020-02-17 22:51:58  
End at: 2020-02-17 22:52:28  
Local clock offset: 2.716 ms  
Remote clock offset: 11.265 ms

# Below is generated by plot.py at 2020-02-18 02:46:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 4.63 Mbit/s  
95th percentile per-packet one-way delay: 86.174 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 4.63 Mbit/s  
95th percentile per-packet one-way delay: 86.174 ms  
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2020-02-17 23:27:27

End at: 2020-02-17 23:27:57

Local clock offset: 1.318 ms

Remote clock offset: 5.313 ms

# Below is generated by plot.py at 2020-02-18 02:46:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.36 Mbit/s

95th percentile per-packet one-way delay: 84.939 ms

Loss rate: 0.00%

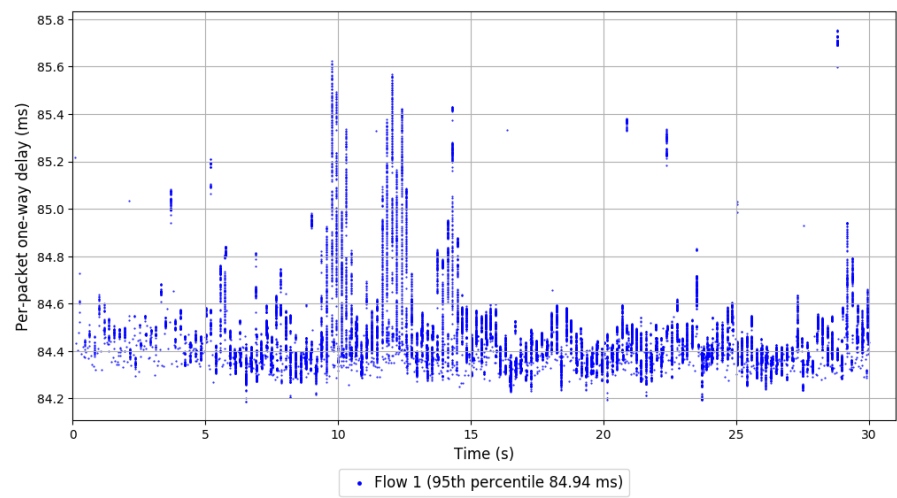
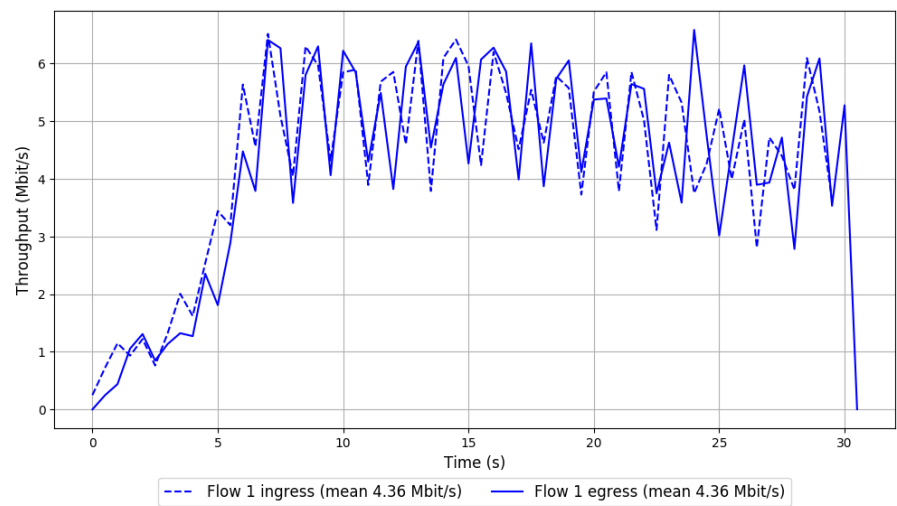
-- Flow 1:

Average throughput: 4.36 Mbit/s

95th percentile per-packet one-way delay: 84.939 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2020-02-18 00:02:40

End at: 2020-02-18 00:03:10

Local clock offset: 0.362 ms

Remote clock offset: 1.551 ms

# Below is generated by plot.py at 2020-02-18 02:46:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.69 Mbit/s

95th percentile per-packet one-way delay: 85.901 ms

Loss rate: 0.00%

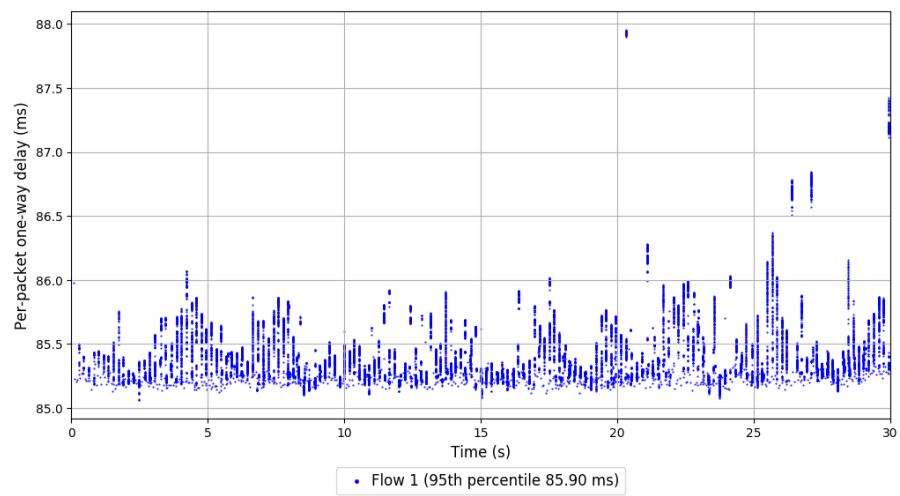
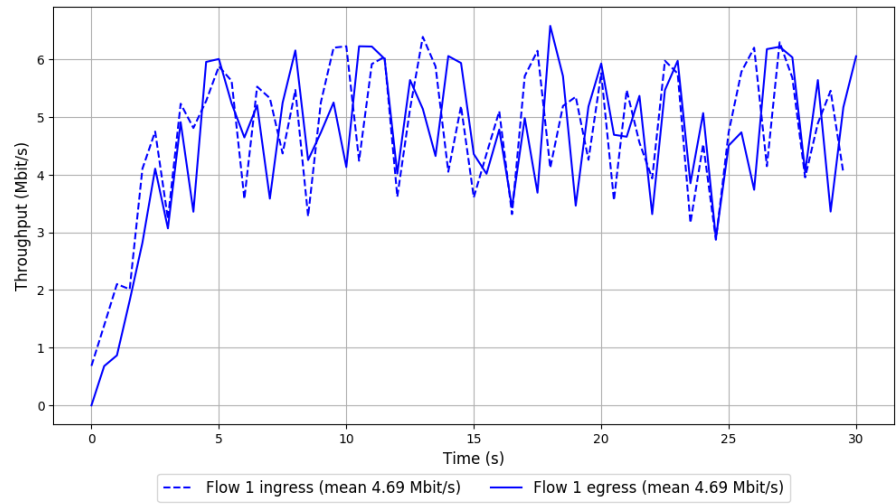
-- Flow 1:

Average throughput: 4.69 Mbit/s

95th percentile per-packet one-way delay: 85.901 ms

Loss rate: 0.00%

## Run 5: Report of Sprout — Data Link

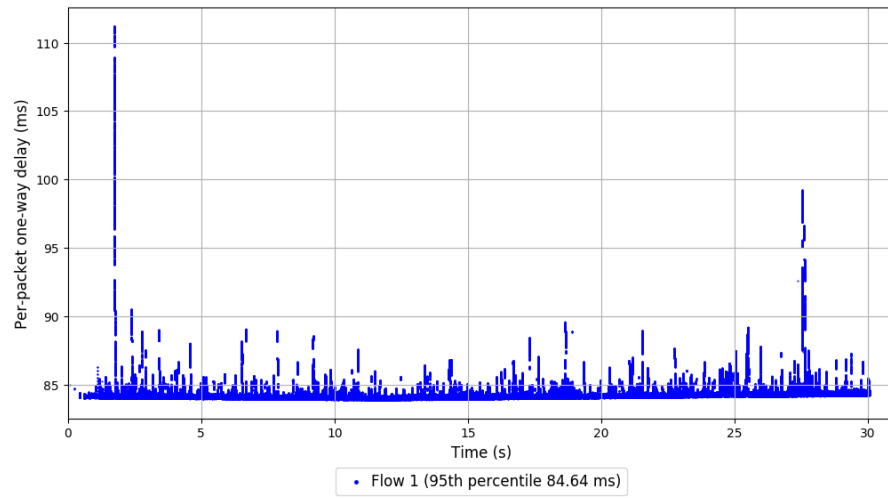
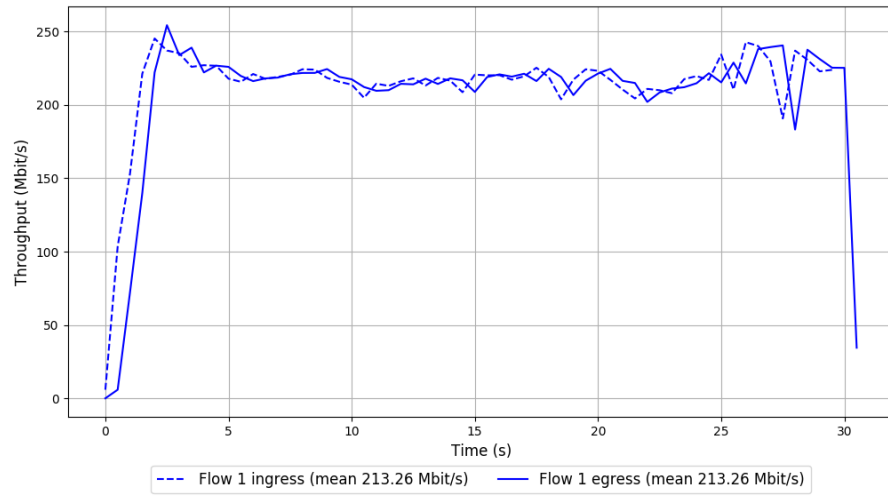


```
Run 1: Statistics of TaoVA-100x

Start at: 2020-02-17 22:01:20
End at: 2020-02-17 22:01:50
Local clock offset: 4.738 ms
Remote clock offset: 19.237 ms

# Below is generated by plot.py at 2020-02-18 02:51:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.26 Mbit/s
95th percentile per-packet one-way delay: 84.642 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 213.26 Mbit/s
95th percentile per-packet one-way delay: 84.642 ms
Loss rate: 0.00%
```

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





Run 2: Statistics of TaoVA-100x

Start at: 2020-02-17 22:36:17

End at: 2020-02-17 22:36:47

Local clock offset: 7.319 ms

Remote clock offset: 28.565 ms

# Below is generated by plot.py at 2020-02-18 02:51:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 207.19 Mbit/s

95th percentile per-packet one-way delay: 85.875 ms

Loss rate: 0.00%

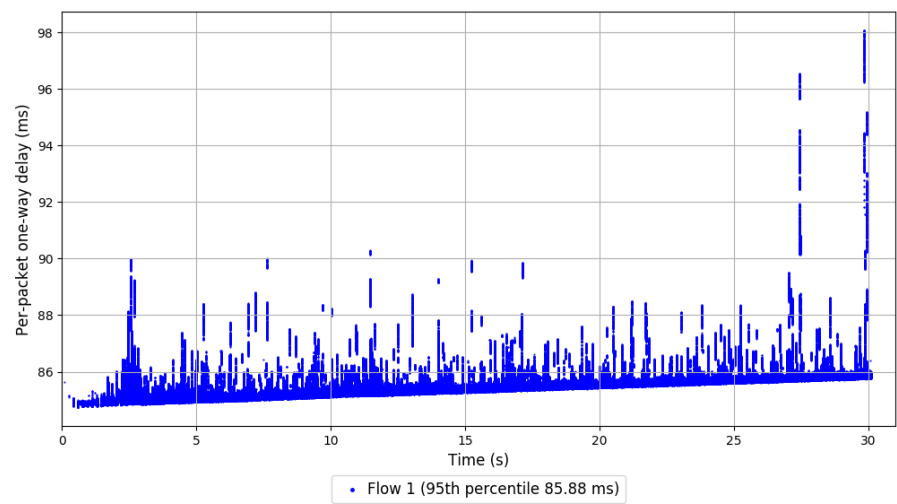
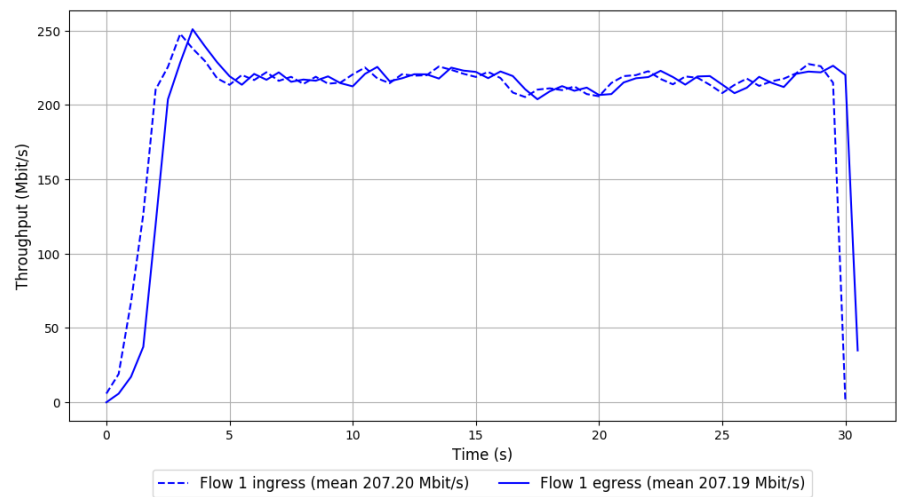
-- Flow 1:

Average throughput: 207.19 Mbit/s

95th percentile per-packet one-way delay: 85.875 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2020-02-17 23:11:49

End at: 2020-02-17 23:12:19

Local clock offset: 3.101 ms

Remote clock offset: 12.551 ms

# Below is generated by plot.py at 2020-02-18 02:51:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 203.65 Mbit/s

95th percentile per-packet one-way delay: 86.484 ms

Loss rate: 0.00%

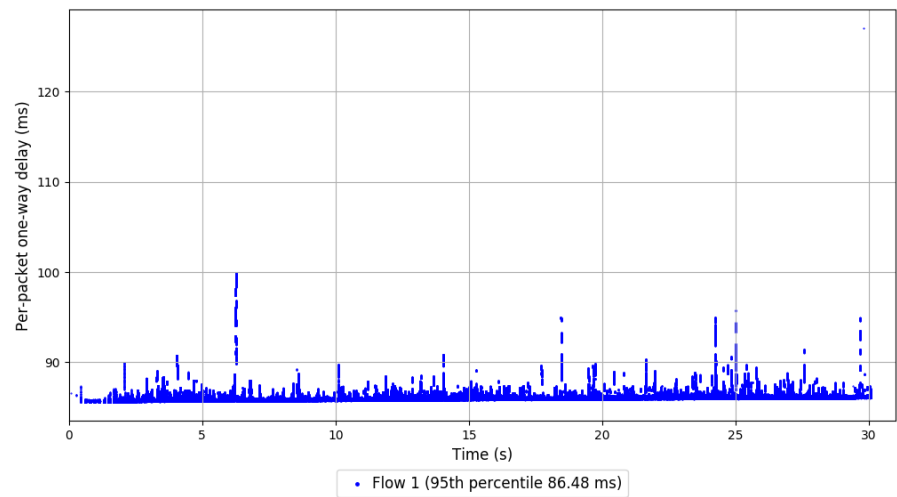
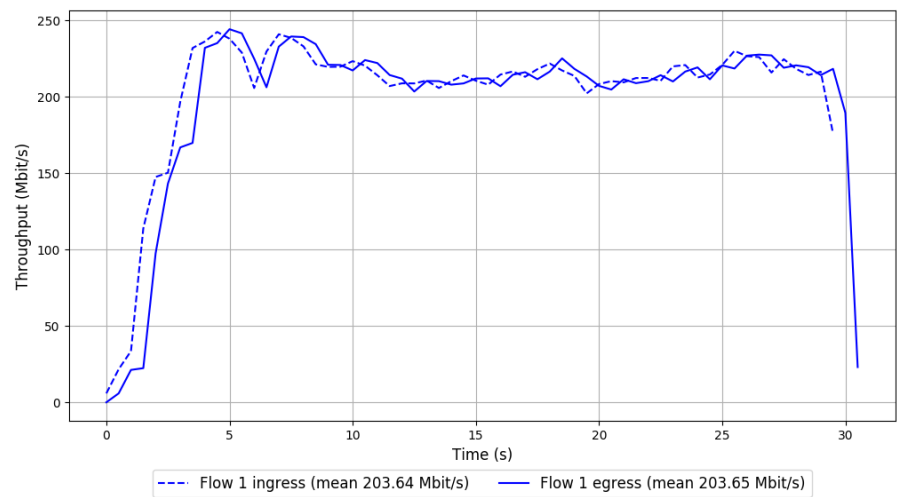
-- Flow 1:

Average throughput: 203.65 Mbit/s

95th percentile per-packet one-way delay: 86.484 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2020-02-17 23:46:54

End at: 2020-02-17 23:47:24

Local clock offset: 1.291 ms

Remote clock offset: 5.224 ms

# Below is generated by plot.py at 2020-02-18 02:52:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 213.33 Mbit/s

95th percentile per-packet one-way delay: 86.243 ms

Loss rate: 0.00%

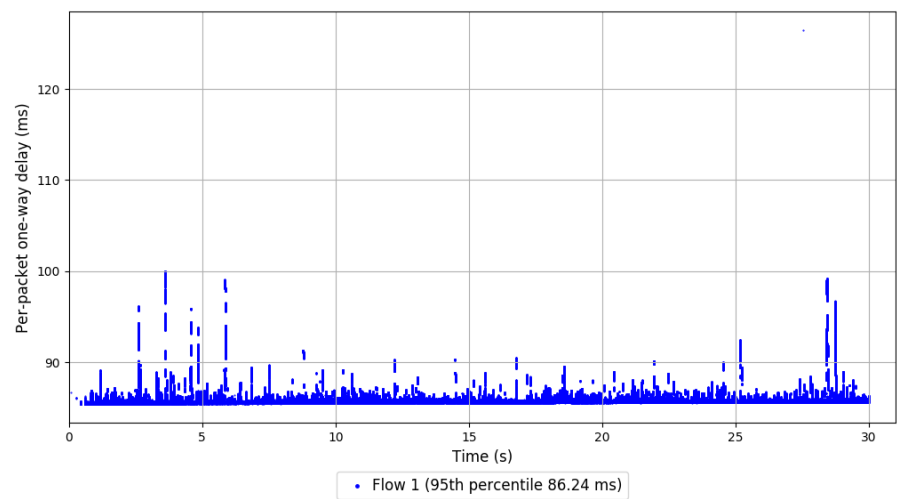
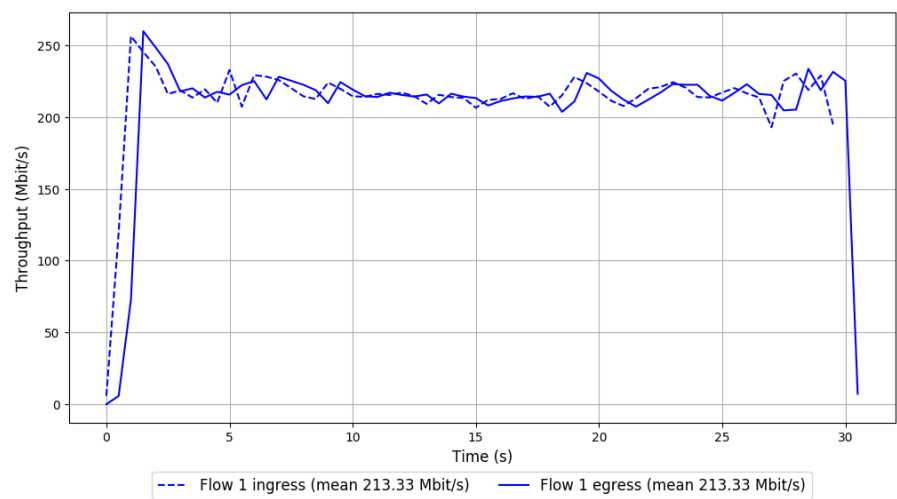
-- Flow 1:

Average throughput: 213.33 Mbit/s

95th percentile per-packet one-way delay: 86.243 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2020-02-18 00:22:08

End at: 2020-02-18 00:22:38

Local clock offset: 0.433 ms

Remote clock offset: 1.086 ms

# Below is generated by plot.py at 2020-02-18 02:52:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 211.91 Mbit/s

95th percentile per-packet one-way delay: 84.532 ms

Loss rate: 0.00%

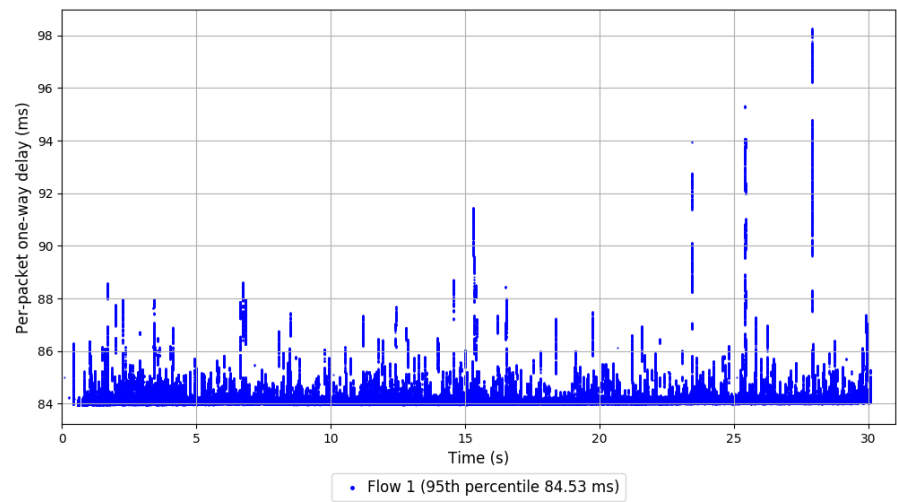
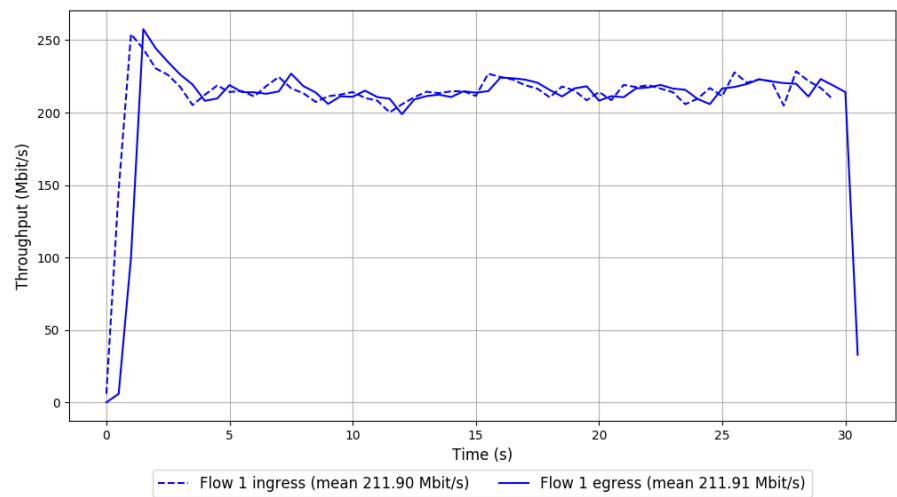
-- Flow 1:

Average throughput: 211.91 Mbit/s

95th percentile per-packet one-way delay: 84.532 ms

Loss rate: 0.00%

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



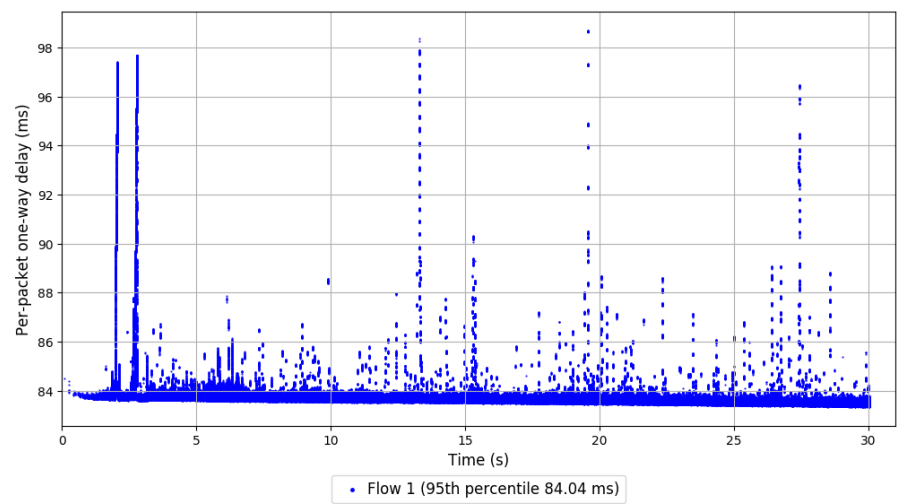
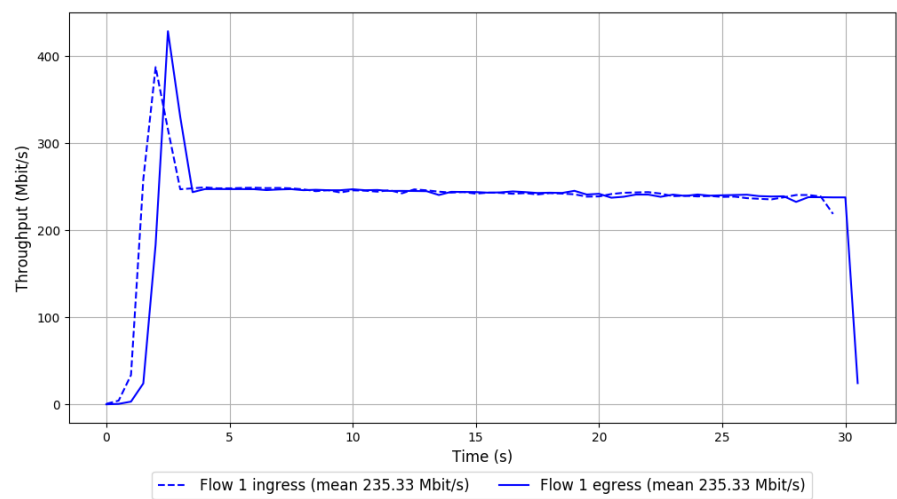


Run 1: Statistics of TCP Vegas

Start at: 2020-02-17 21:53:52  
End at: 2020-02-17 21:54:22  
Local clock offset: 3.132 ms  
Remote clock offset: 12.034 ms

# Below is generated by plot.py at 2020-02-18 02:52:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 235.33 Mbit/s  
95th percentile per-packet one-way delay: 84.036 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 235.33 Mbit/s  
95th percentile per-packet one-way delay: 84.036 ms  
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link

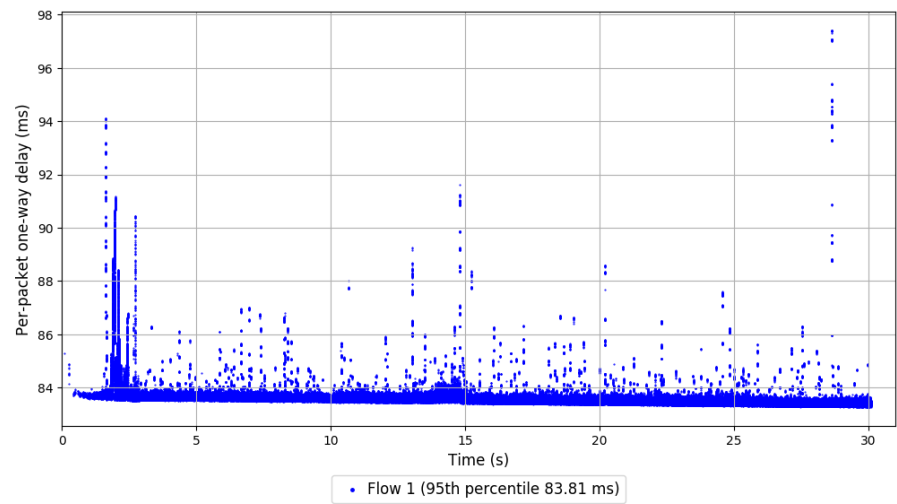
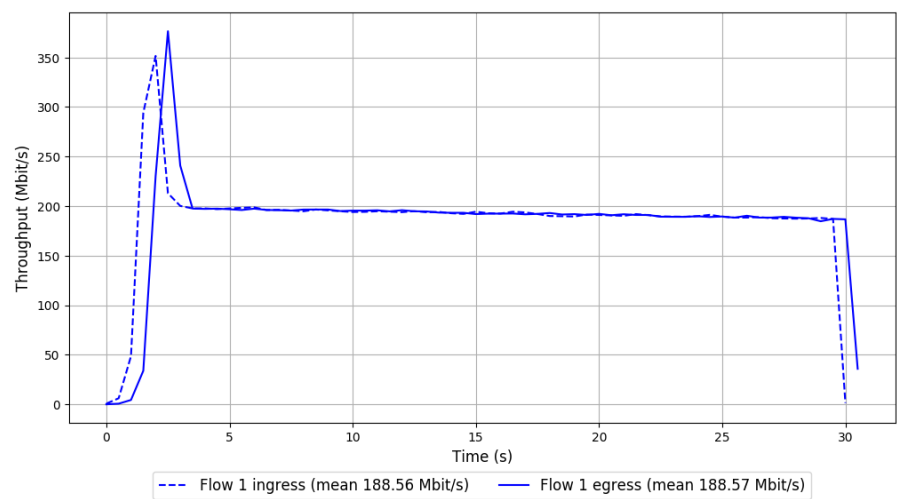


Run 2: Statistics of TCP Vegas

Start at: 2020-02-17 22:28:50  
End at: 2020-02-17 22:29:20  
Local clock offset: 6.331 ms  
Remote clock offset: 23.976 ms

# Below is generated by plot.py at 2020-02-18 02:52:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 188.57 Mbit/s  
95th percentile per-packet one-way delay: 83.808 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 188.57 Mbit/s  
95th percentile per-packet one-way delay: 83.808 ms  
Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link

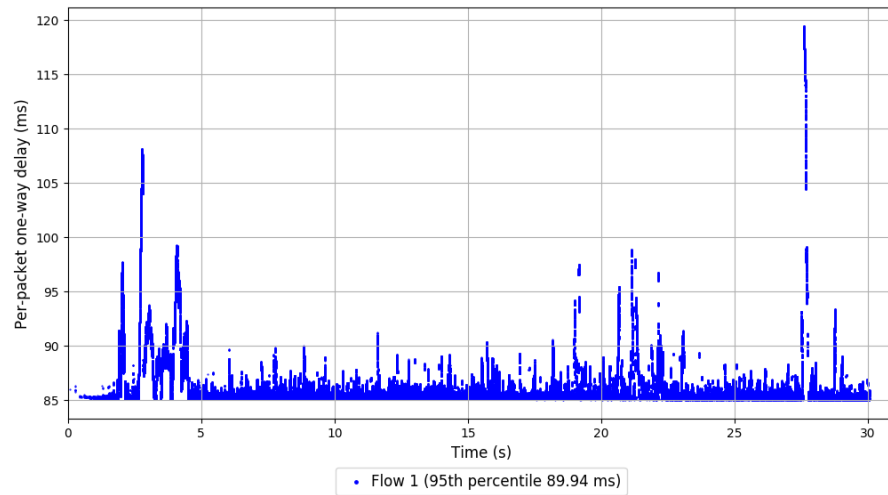
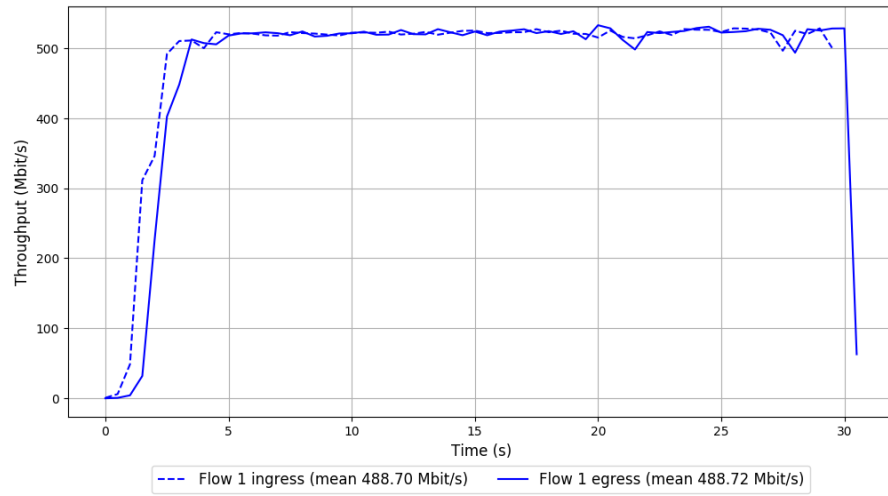


Run 3: Statistics of TCP Vegas

Start at: 2020-02-17 23:04:02  
End at: 2020-02-17 23:04:32  
Local clock offset: 2.976 ms  
Remote clock offset: 12.936 ms

# Below is generated by plot.py at 2020-02-18 02:59:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 488.72 Mbit/s  
95th percentile per-packet one-way delay: 89.940 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 488.72 Mbit/s  
95th percentile per-packet one-way delay: 89.940 ms  
Loss rate: 0.00%

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



Run 4: Statistics of TCP Vegas

Start at: 2020-02-17 23:39:11

End at: 2020-02-17 23:39:41

Local clock offset: 1.542 ms

Remote clock offset: 6.194 ms

# Below is generated by plot.py at 2020-02-18 03:01:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 477.36 Mbit/s

95th percentile per-packet one-way delay: 88.665 ms

Loss rate: 0.00%

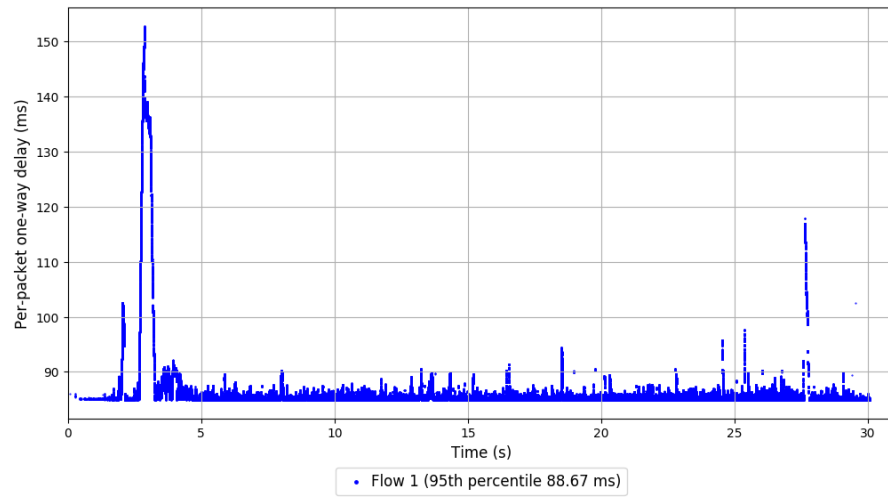
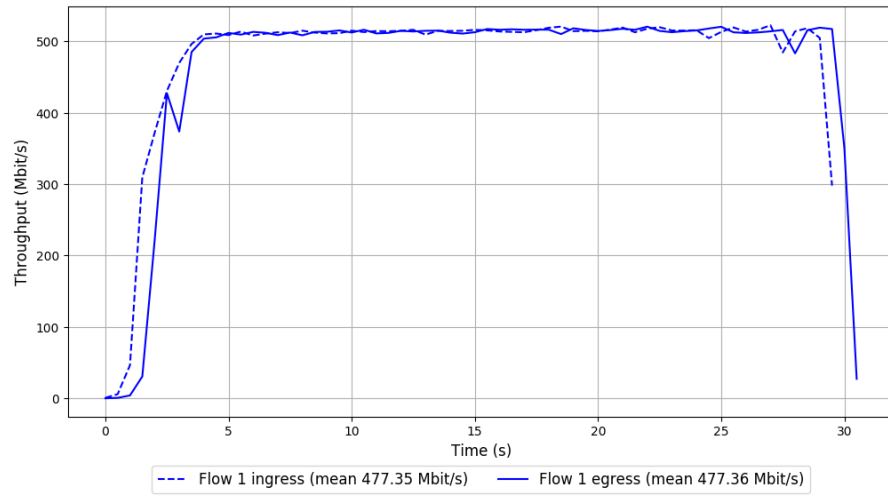
-- Flow 1:

Average throughput: 477.36 Mbit/s

95th percentile per-packet one-way delay: 88.665 ms

Loss rate: 0.00%

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





Run 5: Statistics of TCP Vegas

Start at: 2020-02-18 00:14:37

End at: 2020-02-18 00:15:07

Local clock offset: 0.396 ms

Remote clock offset: 1.484 ms

# Below is generated by plot.py at 2020-02-18 03:01:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 314.71 Mbit/s

95th percentile per-packet one-way delay: 108.801 ms

Loss rate: 0.00%

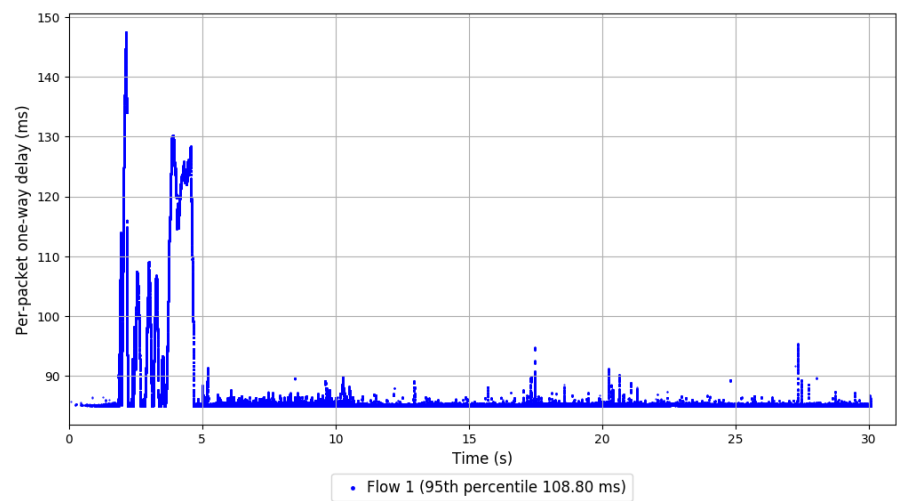
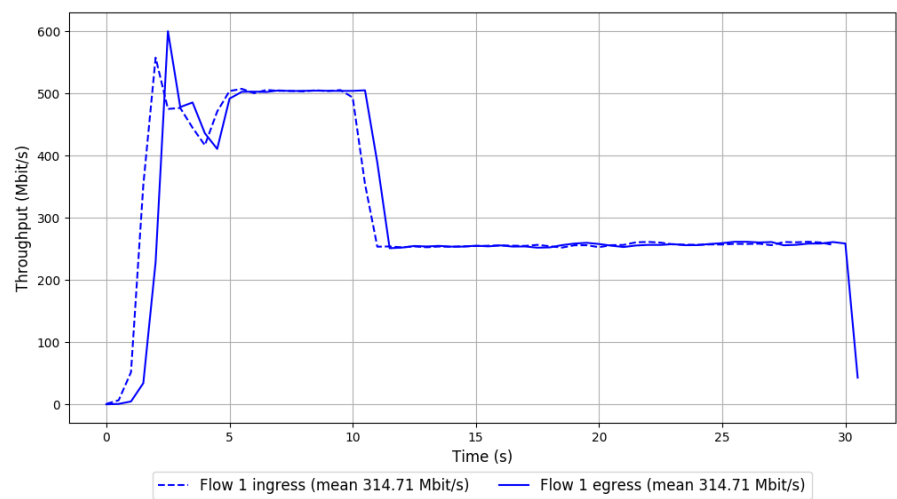
-- Flow 1:

Average throughput: 314.71 Mbit/s

95th percentile per-packet one-way delay: 108.801 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link

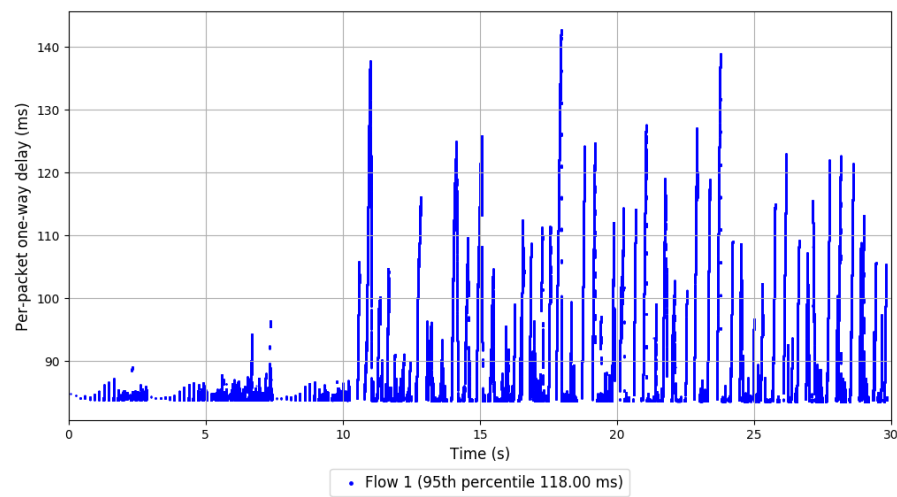
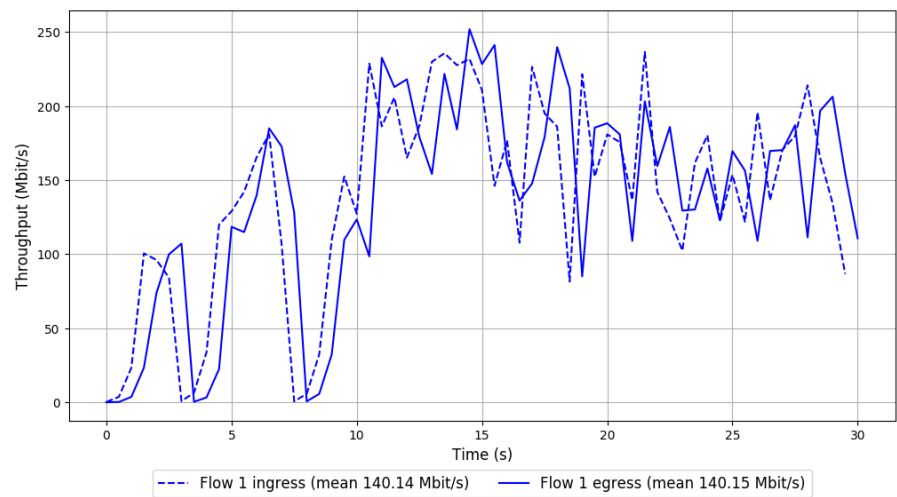


Run 1: Statistics of Verus

Start at: 2020-02-17 21:55:14  
End at: 2020-02-17 21:55:44  
Local clock offset: 3.195 ms  
Remote clock offset: 13.133 ms

# Below is generated by plot.py at 2020-02-18 03:01:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 140.15 Mbit/s  
95th percentile per-packet one-way delay: 117.995 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 140.15 Mbit/s  
95th percentile per-packet one-way delay: 117.995 ms  
Loss rate: 0.00%

Run 1: Report of Verus — Data Link

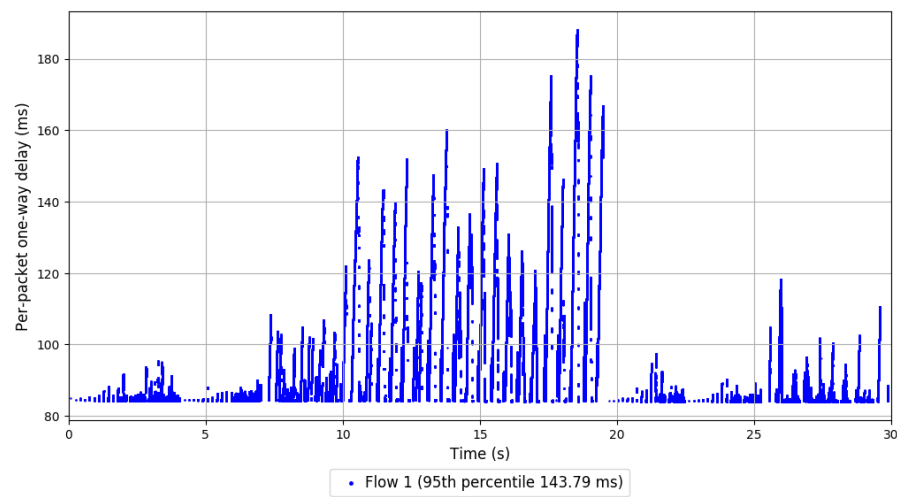
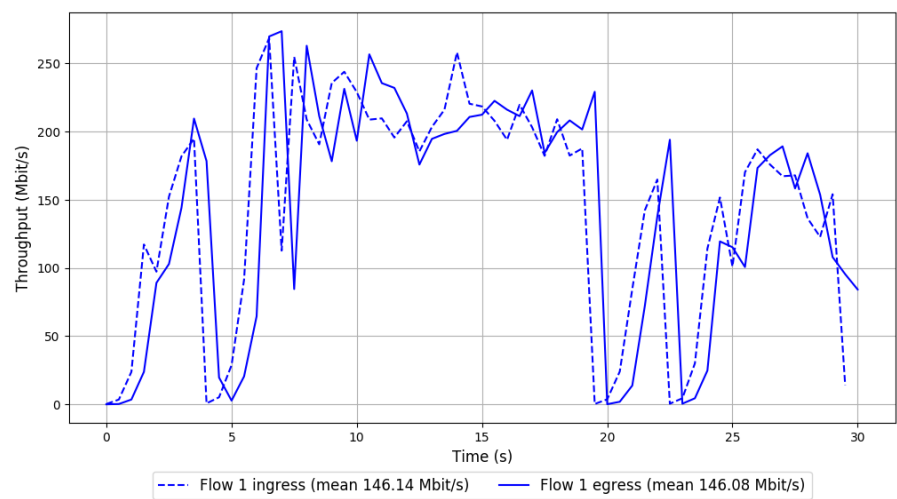


Run 2: Statistics of Verus

Start at: 2020-02-17 22:30:10  
End at: 2020-02-17 22:30:40  
Local clock offset: 6.247 ms  
Remote clock offset: 25.007 ms

# Below is generated by plot.py at 2020-02-18 03:01:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 146.08 Mbit/s  
95th percentile per-packet one-way delay: 143.788 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 146.08 Mbit/s  
95th percentile per-packet one-way delay: 143.788 ms  
Loss rate: 0.04%

Run 2: Report of Verus — Data Link

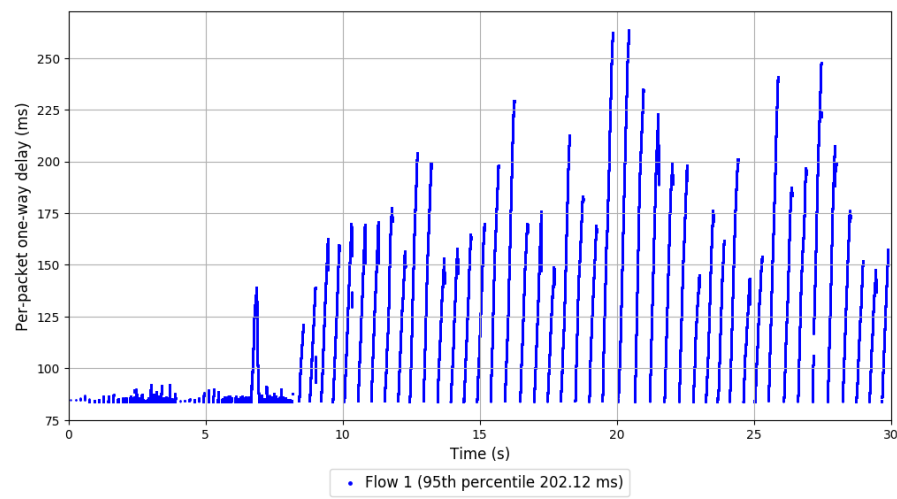
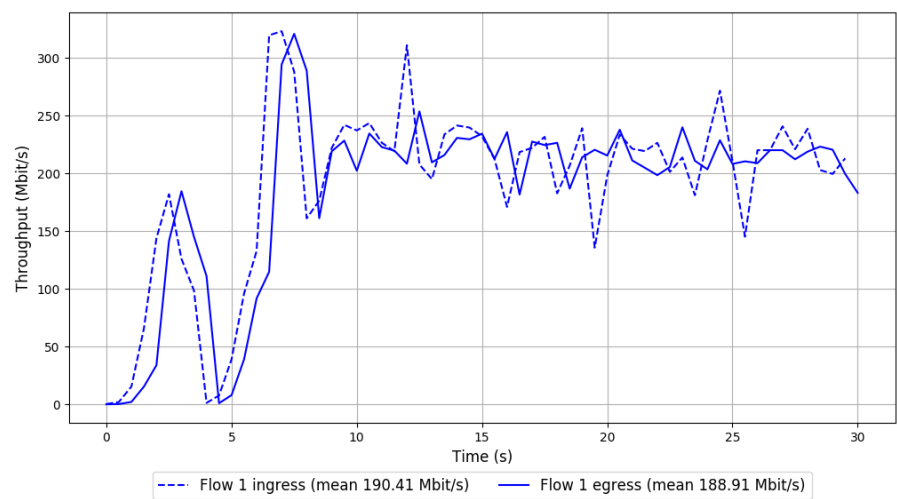


Run 3: Statistics of Verus

Start at: 2020-02-17 23:05:37  
End at: 2020-02-17 23:06:07  
Local clock offset: 3.22 ms  
Remote clock offset: 13.469 ms

# Below is generated by plot.py at 2020-02-18 03:01:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 188.91 Mbit/s  
95th percentile per-packet one-way delay: 202.119 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 188.91 Mbit/s  
95th percentile per-packet one-way delay: 202.119 ms  
Loss rate: 0.74%

Run 3: Report of Verus — Data Link





Run 4: Statistics of Verus

Start at: 2020-02-17 23:40:46

End at: 2020-02-17 23:41:16

Local clock offset: 1.571 ms

Remote clock offset: 6.454 ms

# Below is generated by plot.py at 2020-02-18 03:01:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 155.63 Mbit/s

95th percentile per-packet one-way delay: 175.339 ms

Loss rate: 0.19%

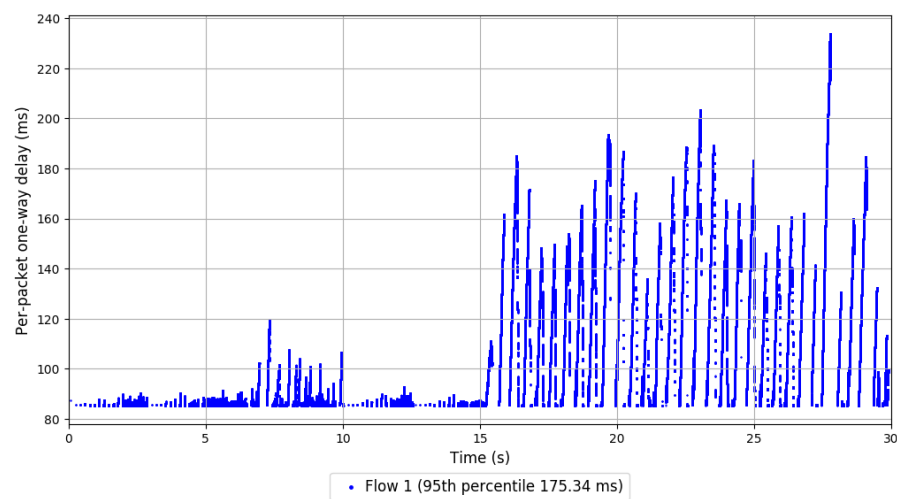
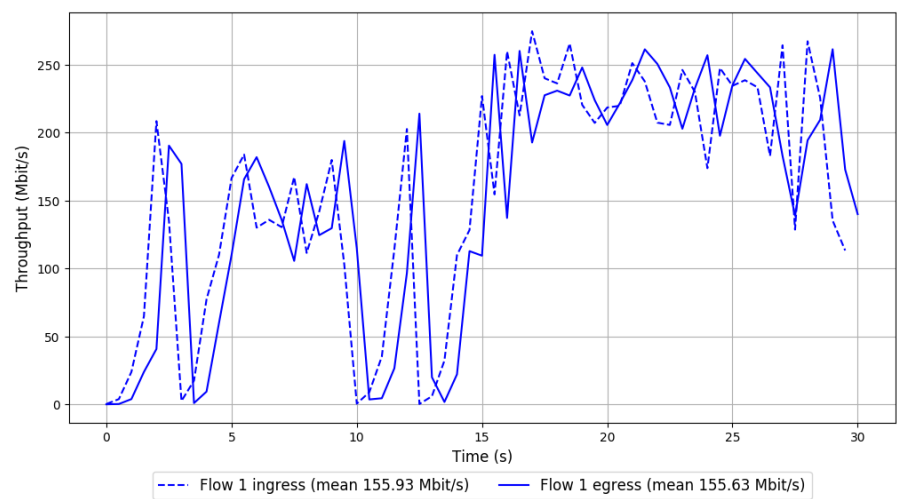
-- Flow 1:

Average throughput: 155.63 Mbit/s

95th percentile per-packet one-way delay: 175.339 ms

Loss rate: 0.19%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2020-02-18 00:16:04

End at: 2020-02-18 00:16:34

Local clock offset: 0.414 ms

Remote clock offset: 1.492 ms

# Below is generated by plot.py at 2020-02-18 03:01:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 111.62 Mbit/s

95th percentile per-packet one-way delay: 183.172 ms

Loss rate: 1.15%

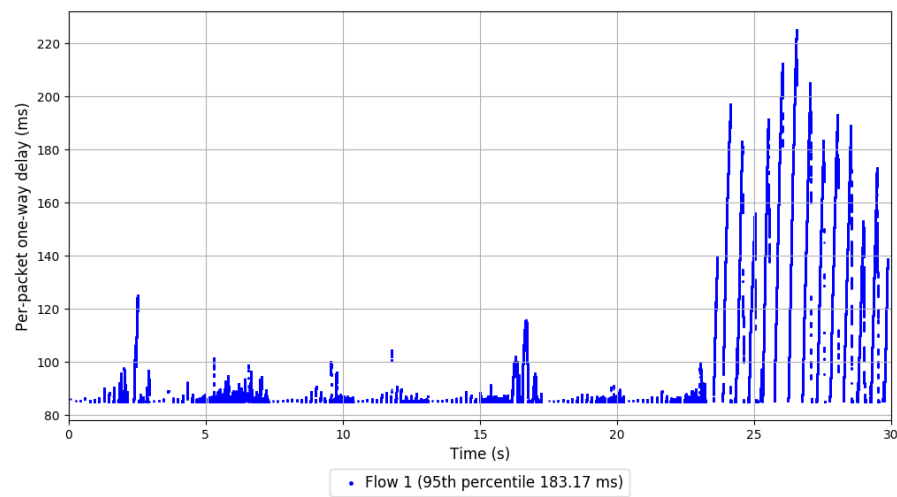
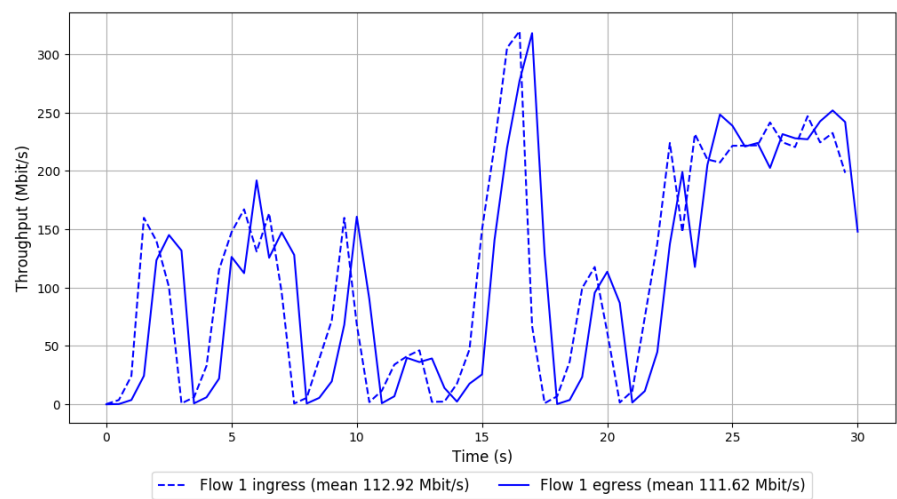
-- Flow 1:

Average throughput: 111.62 Mbit/s

95th percentile per-packet one-way delay: 183.172 ms

Loss rate: 1.15%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2020-02-17 21:50:59

End at: 2020-02-17 21:51:29

Local clock offset: 2.641 ms

Remote clock offset: 10.203 ms

# Below is generated by plot.py at 2020-02-18 03:01:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 180.60 Mbit/s

95th percentile per-packet one-way delay: 84.858 ms

Loss rate: 0.00%

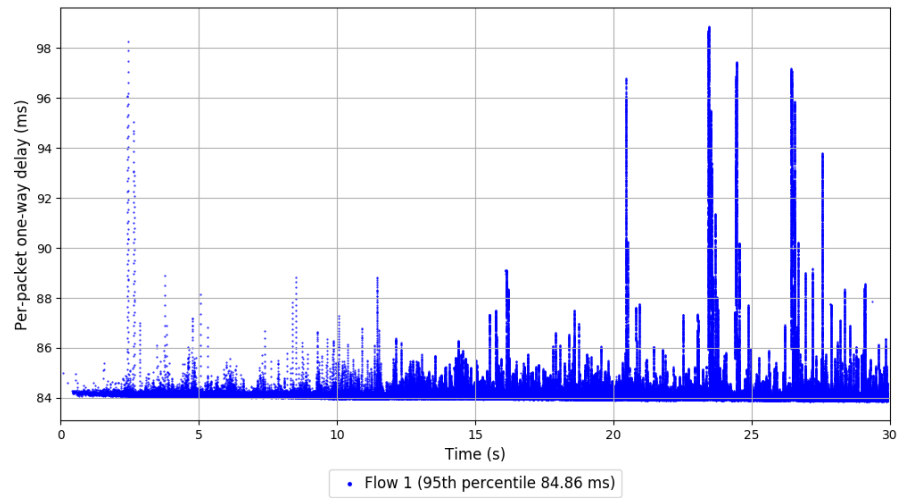
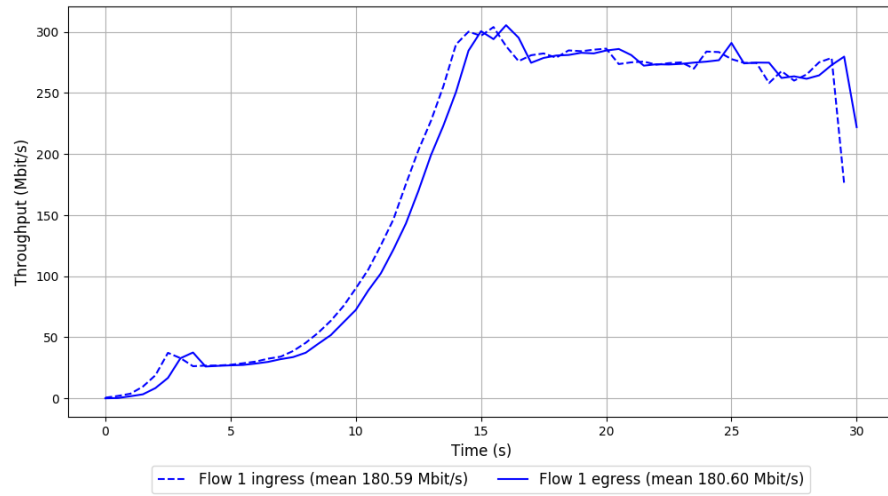
-- Flow 1:

Average throughput: 180.60 Mbit/s

95th percentile per-packet one-way delay: 84.858 ms

Loss rate: 0.00%

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



Run 2: Statistics of PCC-Vivace

Start at: 2020-02-17 22:25:50

End at: 2020-02-17 22:26:20

Local clock offset: 5.449 ms

Remote clock offset: 21.64 ms

# Below is generated by plot.py at 2020-02-18 03:02:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 261.77 Mbit/s

95th percentile per-packet one-way delay: 85.990 ms

Loss rate: 0.00%

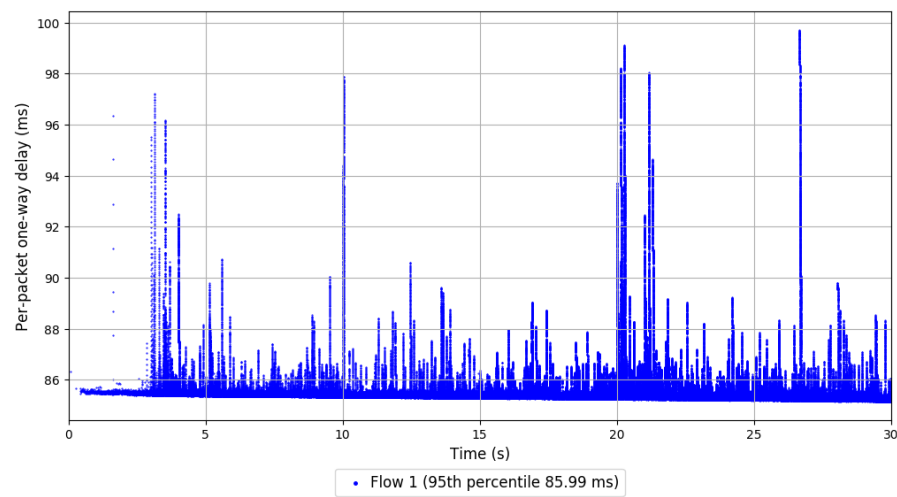
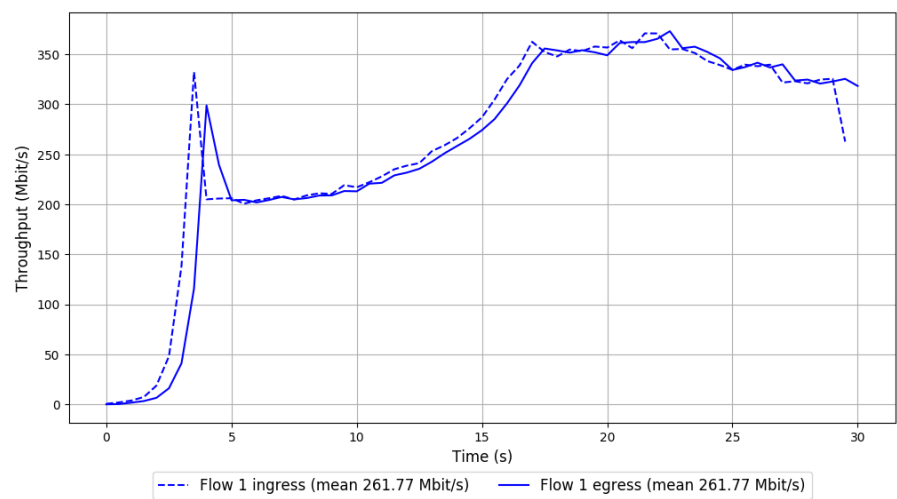
-- Flow 1:

Average throughput: 261.77 Mbit/s

95th percentile per-packet one-way delay: 85.990 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link





Run 3: Statistics of PCC-Vivace

Start at: 2020-02-17 23:00:59

End at: 2020-02-17 23:01:29

Local clock offset: 2.943 ms

Remote clock offset: 12.158 ms

# Below is generated by plot.py at 2020-02-18 03:02:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 227.41 Mbit/s

95th percentile per-packet one-way delay: 84.251 ms

Loss rate: 0.00%

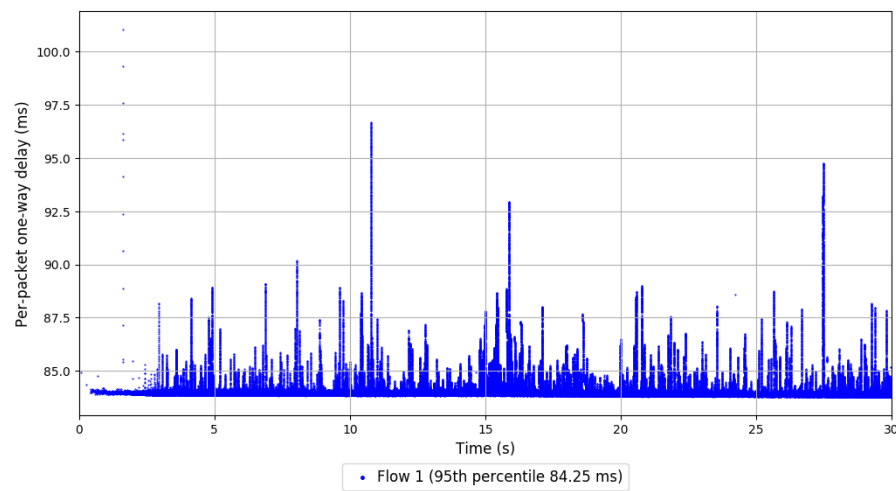
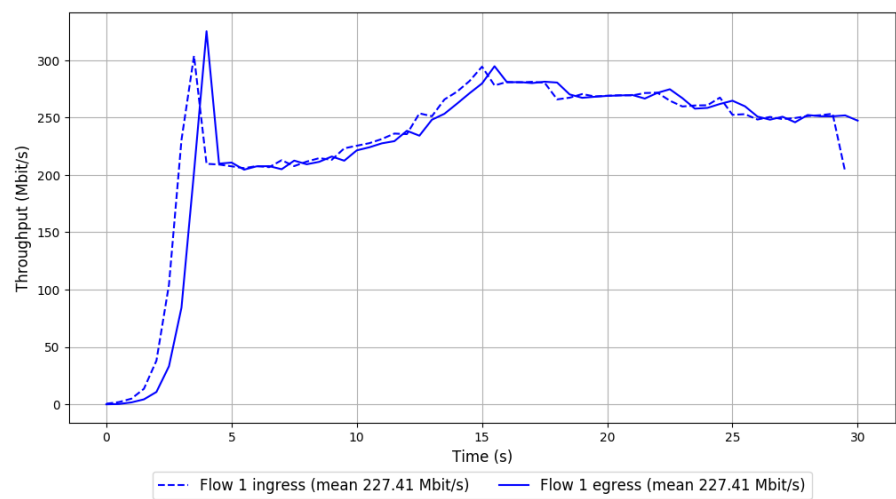
-- Flow 1:

Average throughput: 227.41 Mbit/s

95th percentile per-packet one-way delay: 84.251 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2020-02-17 23:36:21

End at: 2020-02-17 23:36:51

Local clock offset: 1.438 ms

Remote clock offset: 5.861 ms

# Below is generated by plot.py at 2020-02-18 03:02:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 243.82 Mbit/s

95th percentile per-packet one-way delay: 86.320 ms

Loss rate: 0.00%

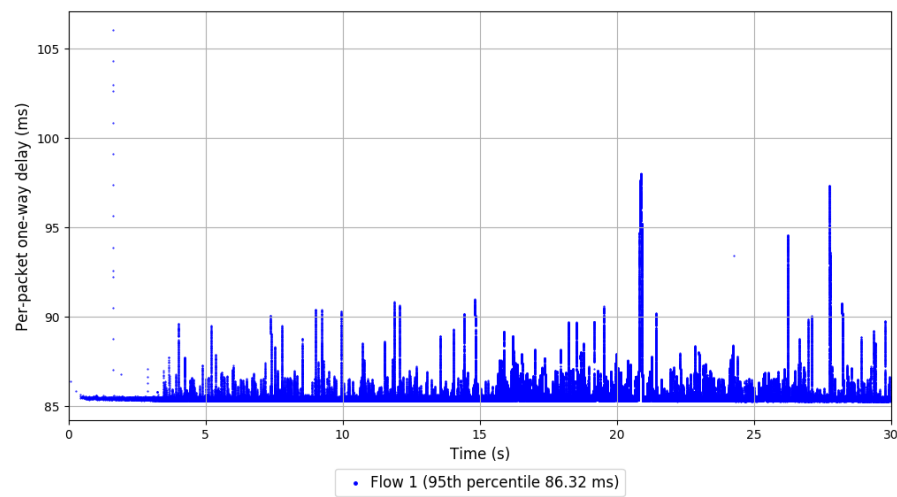
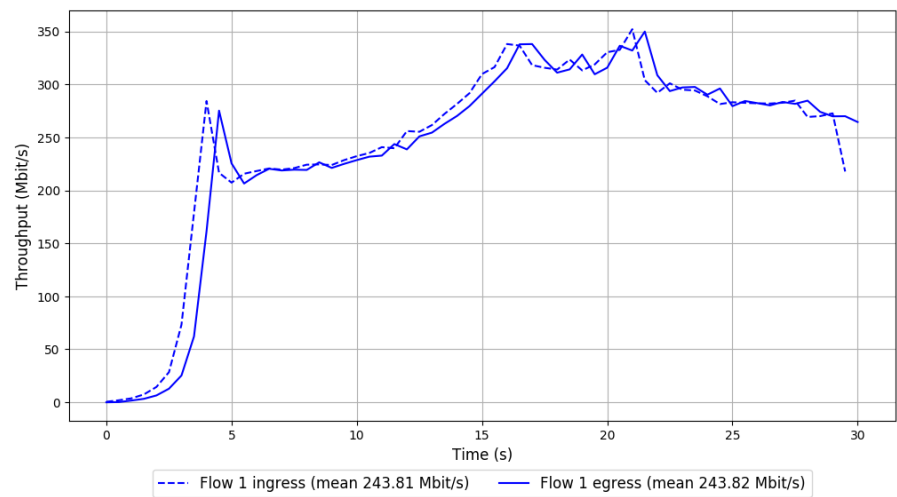
-- Flow 1:

Average throughput: 243.82 Mbit/s

95th percentile per-packet one-way delay: 86.320 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2020-02-18 00:11:30

End at: 2020-02-18 00:12:00

Local clock offset: 0.71 ms

Remote clock offset: 1.43 ms

# Below is generated by plot.py at 2020-02-18 03:02:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 331.40 Mbit/s

95th percentile per-packet one-way delay: 86.397 ms

Loss rate: 0.00%

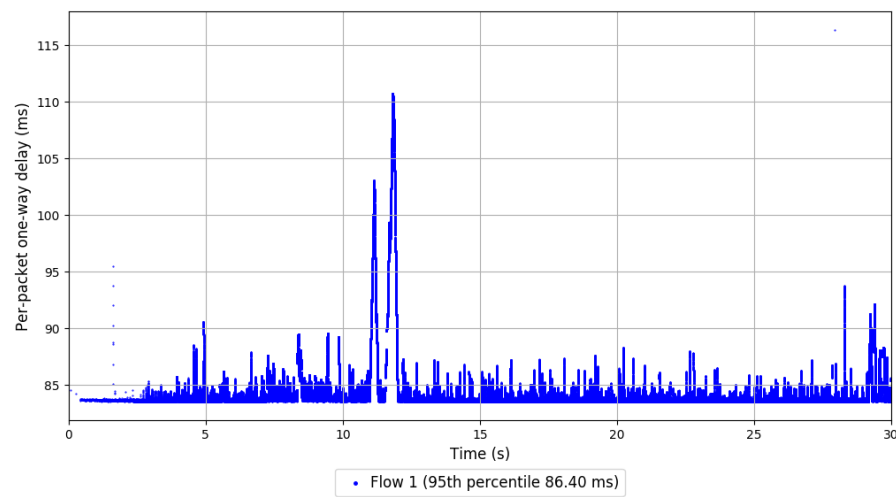
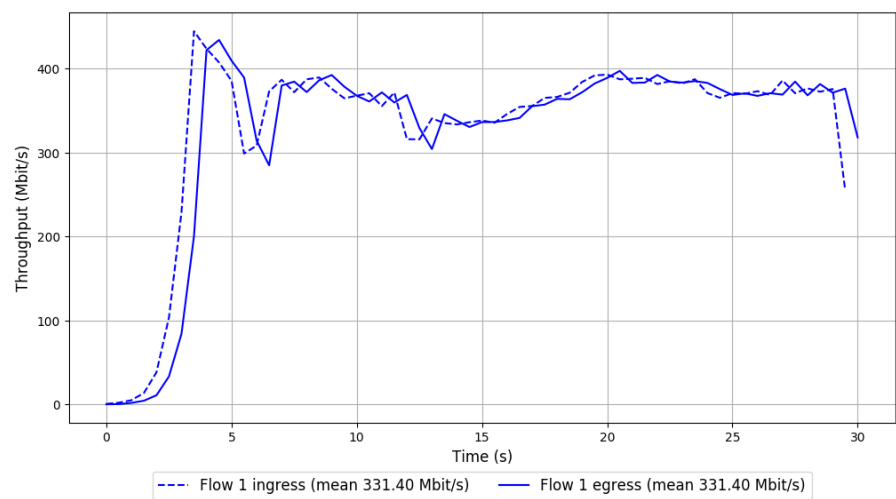
-- Flow 1:

Average throughput: 331.40 Mbit/s

95th percentile per-packet one-way delay: 86.397 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

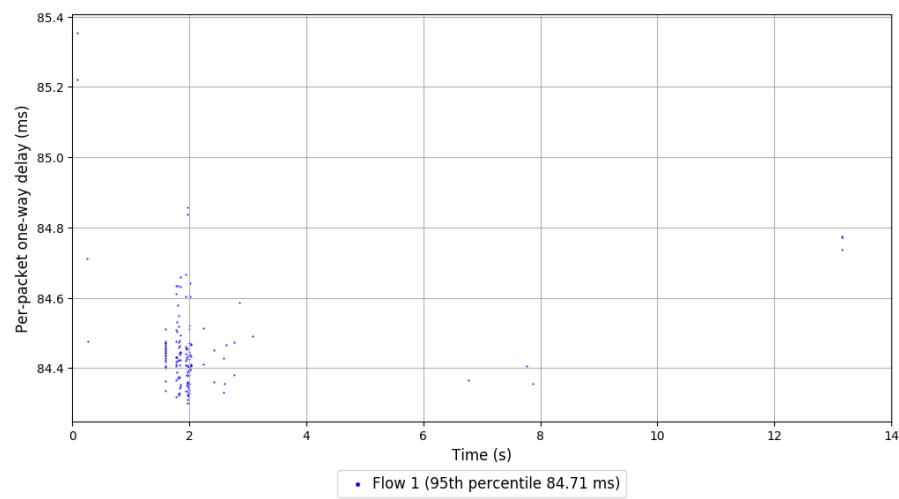
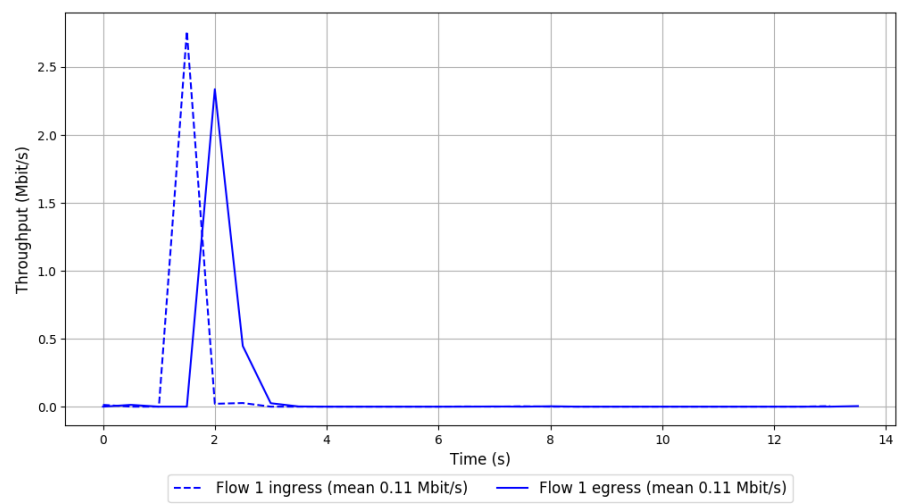
Start at: 2020-02-17 21:34:51

End at: 2020-02-17 21:35:21

Local clock offset: 2.003 ms

Remote clock offset: 6.755 ms

Run 1: Report of WebRTC media — Data Link



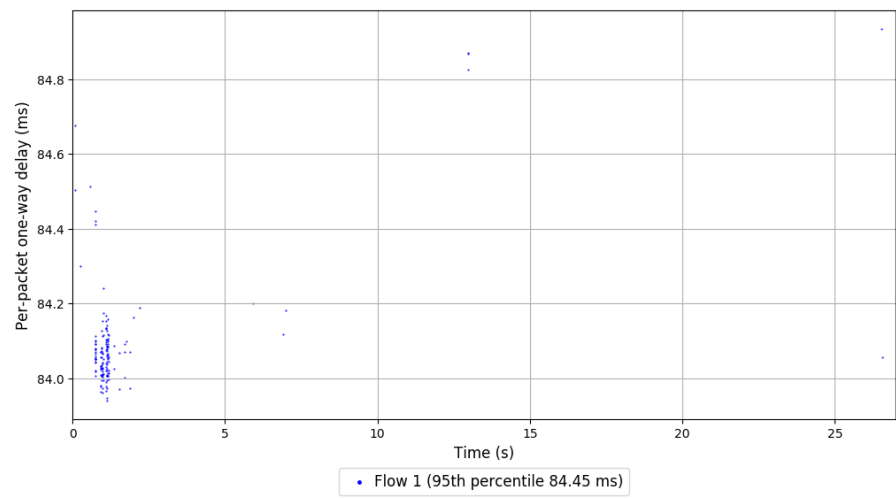
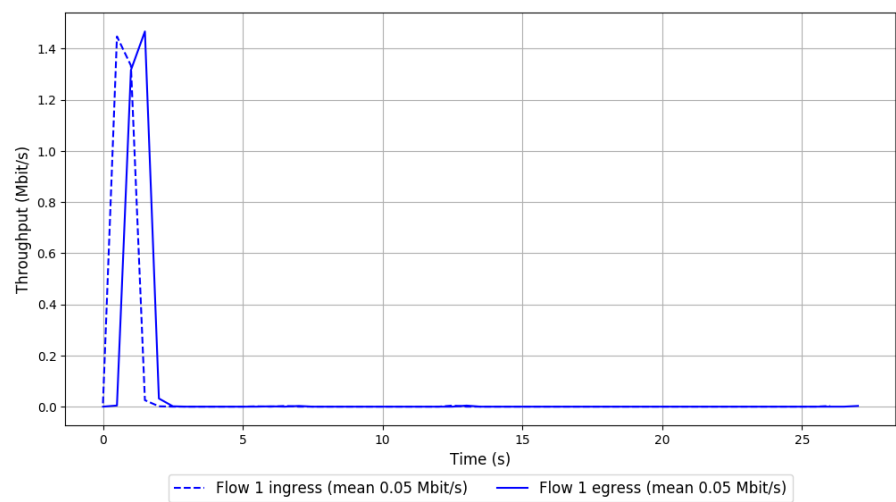


Run 2: Statistics of WebRTC media

Start at: 2020-02-17 22:09:37  
End at: 2020-02-17 22:10:07  
Local clock offset: 3.985 ms  
Remote clock offset: 14.498 ms

# Below is generated by plot.py at 2020-02-18 03:02:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 84.447 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 84.447 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

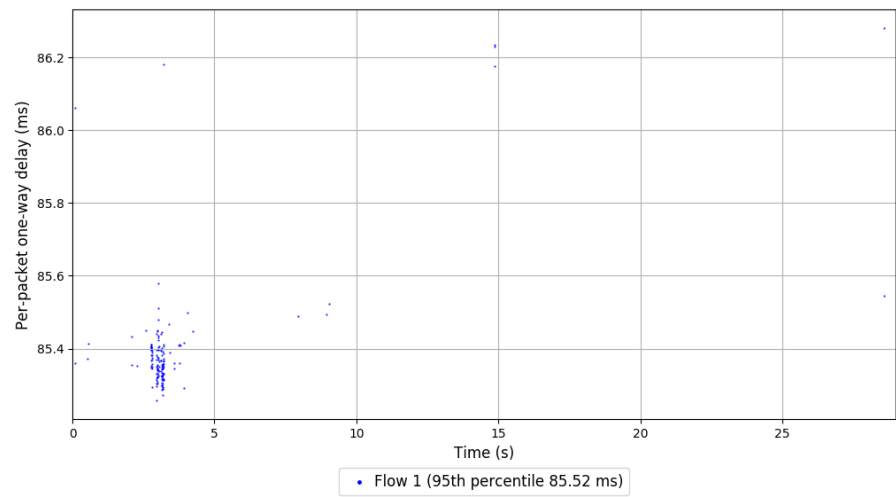
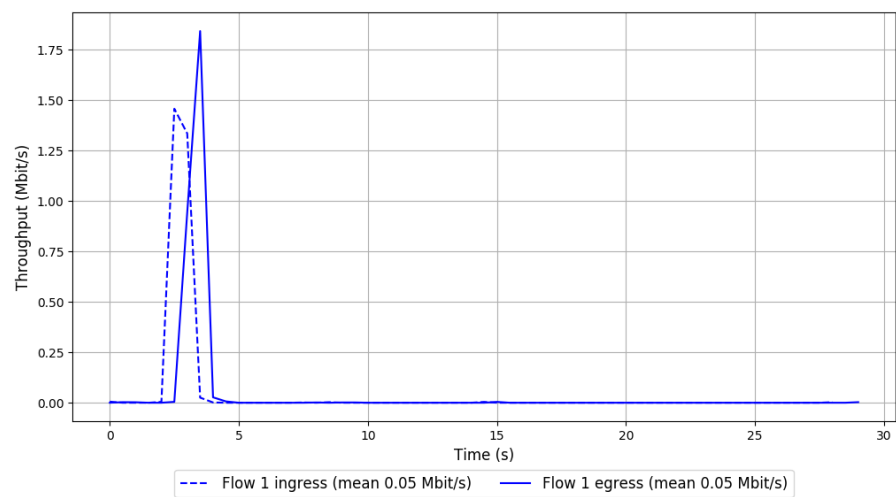


Run 3: Statistics of WebRTC media

Start at: 2020-02-17 22:44:47  
End at: 2020-02-17 22:45:17  
Local clock offset: 3.528 ms  
Remote clock offset: 14.215 ms

# Below is generated by plot.py at 2020-02-18 03:02:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 85.522 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 85.522 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2020-02-17 23:20:25

End at: 2020-02-17 23:20:55

Local clock offset: 1.534 ms

Remote clock offset: 6.438 ms

# Below is generated by plot.py at 2020-02-18 03:02:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 85.042 ms

Loss rate: 0.00%

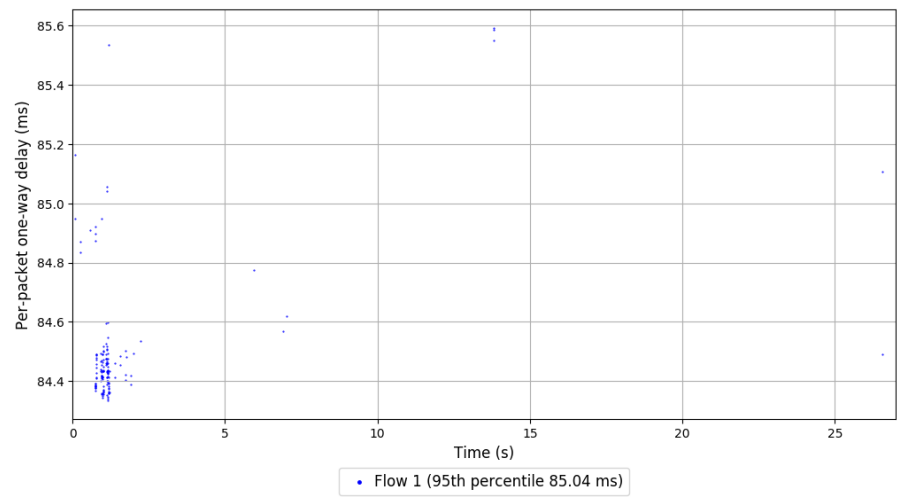
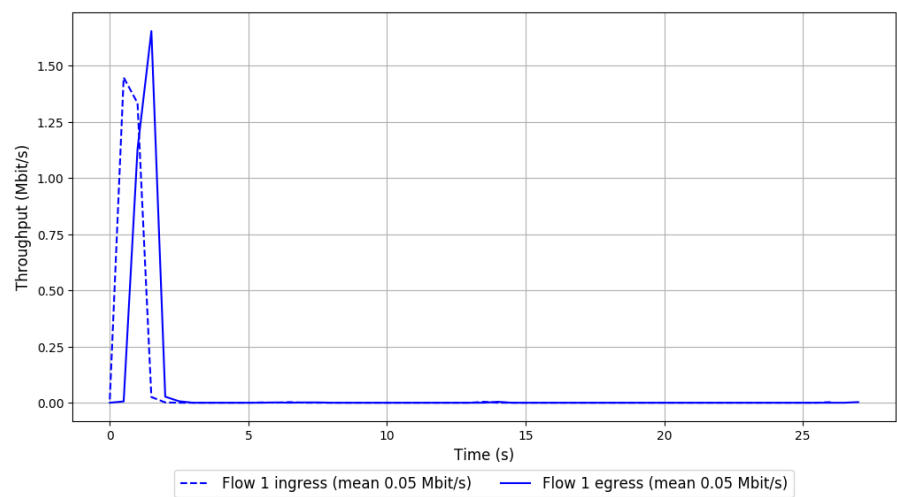
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 85.042 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2020-02-17 23:55:30

End at: 2020-02-17 23:56:00

Local clock offset: 0.595 ms

Remote clock offset: 2.287 ms

# Below is generated by plot.py at 2020-02-18 03:02:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 84.812 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 84.812 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

