

## Pantheon Report

Generated at 2019-10-02 20:00:19 (UTC).

Data path: AWS Brazil 2 on **ens5** (*local*) → Colombia on **p4p1** (*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 **gps.ntp.br** and have been applied to correct the timestamps in logs.

### System info:

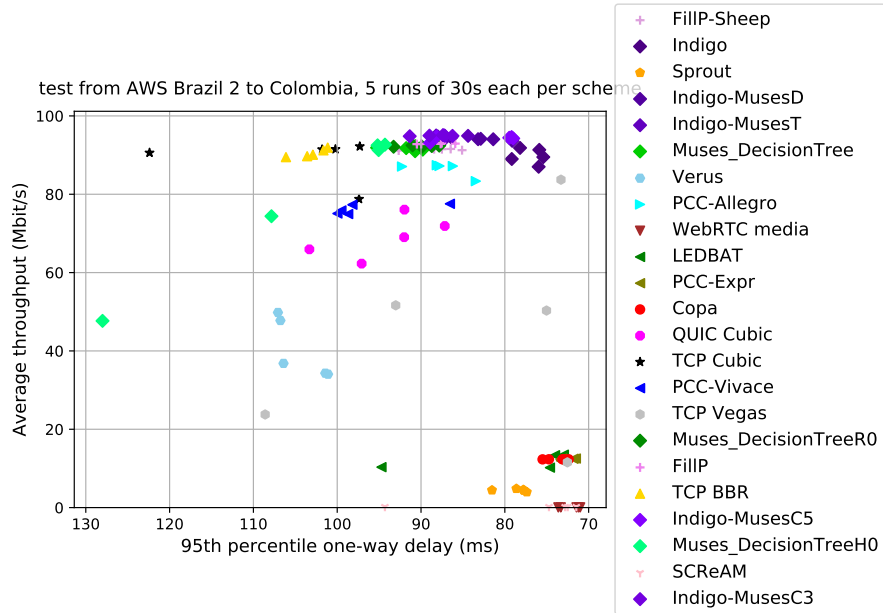
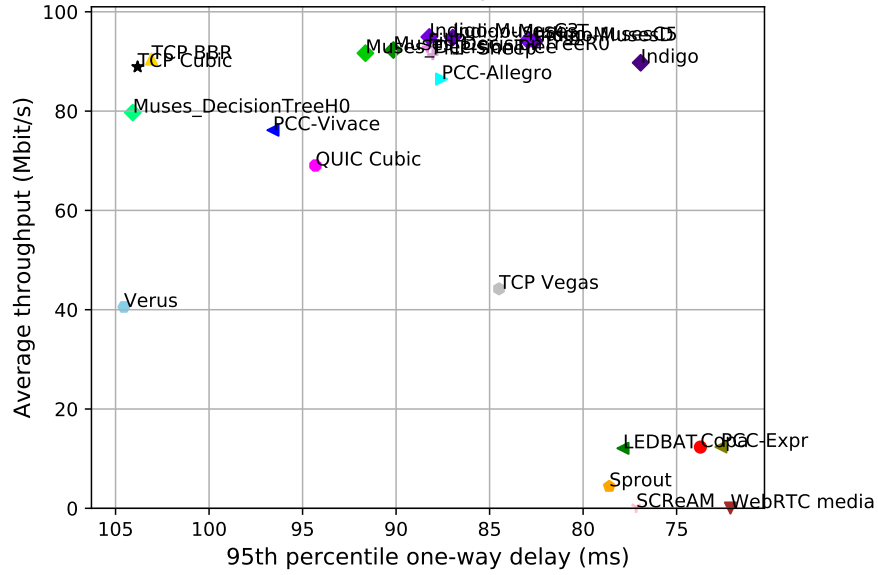
```
Linux 4.15.0-1050-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 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 AWS Brazil 2 to Colombia, 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	90.48	103.08	2.80
Copa	5	12.33	73.73	74.60
TCP Cubic	5	88.90	103.82	0.55
FillP	5	92.89	88.32	1.05
FillP-Sheep	5	91.40	88.04	0.97
Indigo	5	89.74	76.92	1.09
Indigo-MusesC3	5	94.94	88.22	0.24
Indigo-MusesC5	5	94.23	82.94	0.22
Indigo-MusesD	5	94.08	82.59	0.08
Indigo-MusesT	5	94.80	86.97	1.86
LEDBAT	5	12.08	77.87	0.00
Muses_DecisionTree	5	91.67	91.64	0.36
Muses_DecisionTreeH0	5	79.70	104.08	26.83
Muses_DecisionTreeR0	5	92.30	90.14	0.37
PCC-Allegro	5	86.45	87.57	1.44
PCC-Expr	5	12.36	72.63	55.75
QUIC Cubic	5	69.05	94.31	0.42
SCReAM	5	0.22	77.16	0.03
Sprout	5	4.43	78.60	0.03
TaoVA-100x	0	N/A	N/A	N/A
TCP Vegas	5	44.20	84.50	1.04
Verus	5	40.56	104.55	51.42
PCC-Vivace	5	76.16	96.58	0.11
WebRTC media	5	0.05	72.12	0.00



Run 1: Statistics of TCP BBR

Start at: 2019-10-02 17:27:45

End at: 2019-10-02 17:28:15

Local clock offset: 2.671 ms

Remote clock offset: -2.088 ms

# Below is generated by plot.py at 2019-10-02 19:49:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.48 Mbit/s

95th percentile per-packet one-way delay: 106.115 ms

Loss rate: 3.02%

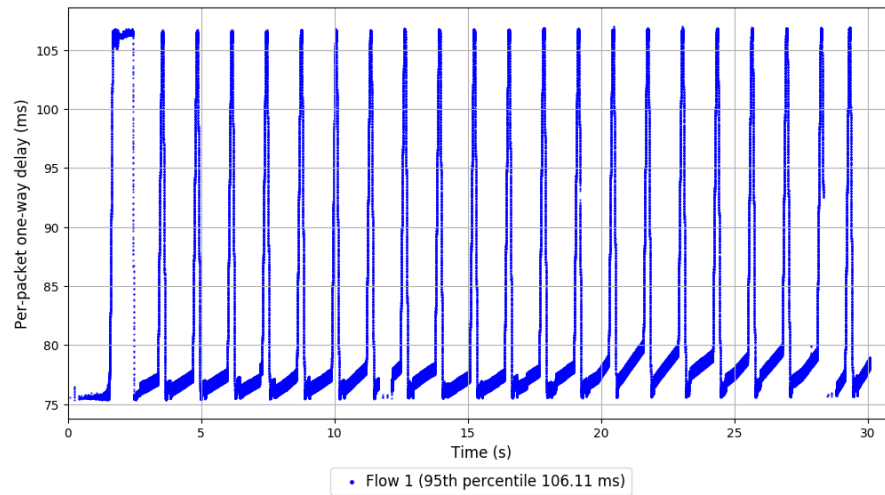
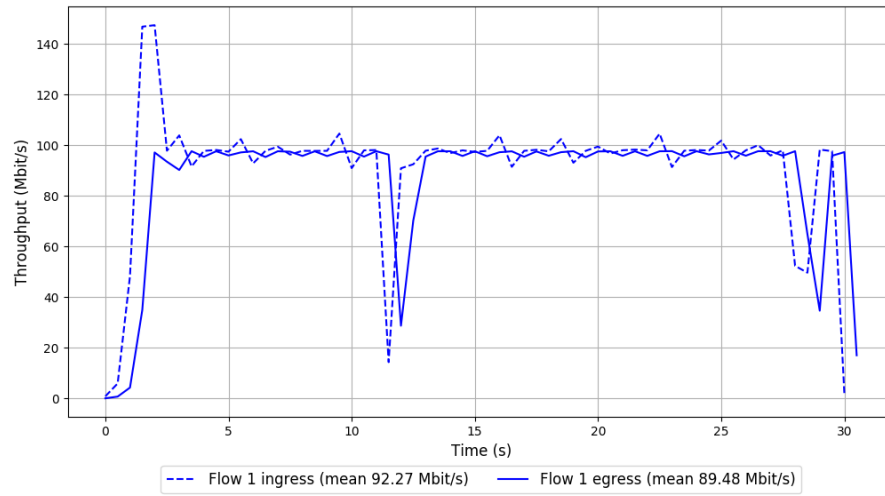
-- Flow 1:

Average throughput: 89.48 Mbit/s

95th percentile per-packet one-way delay: 106.115 ms

Loss rate: 3.02%

# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-10-02 17:55:56

End at: 2019-10-02 17:56:26

Local clock offset: -7.9 ms

Remote clock offset: 4.275 ms

# Below is generated by plot.py at 2019-10-02 19:49:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.91 Mbit/s

95th percentile per-packet one-way delay: 101.137 ms

Loss rate: 2.95%

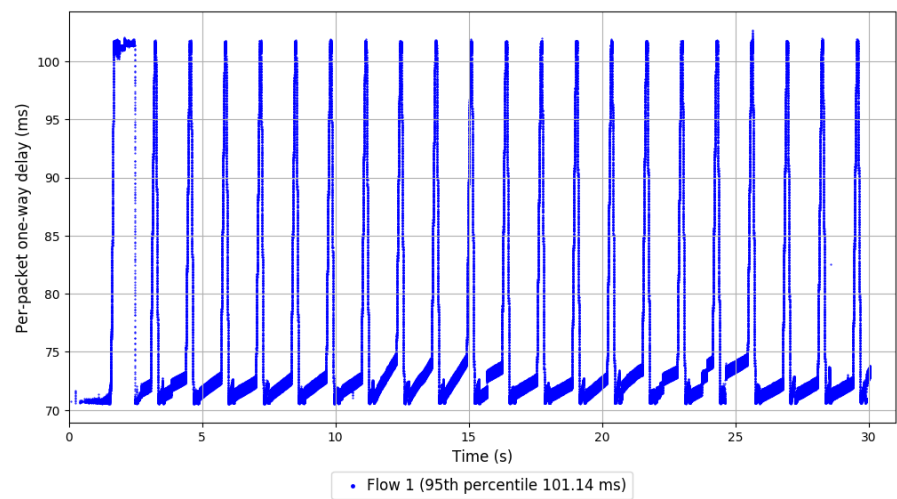
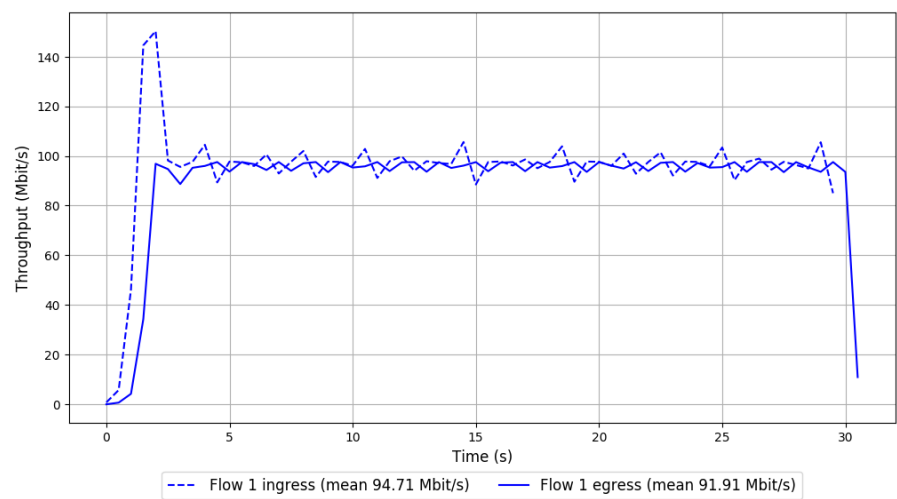
-- Flow 1:

Average throughput: 91.91 Mbit/s

95th percentile per-packet one-way delay: 101.137 ms

Loss rate: 2.95%

Run 2: Report of TCP BBR — Data Link

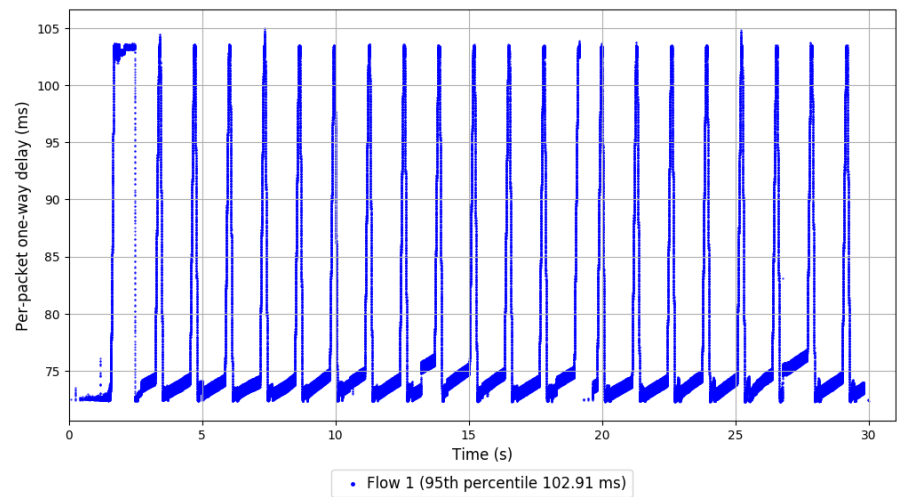
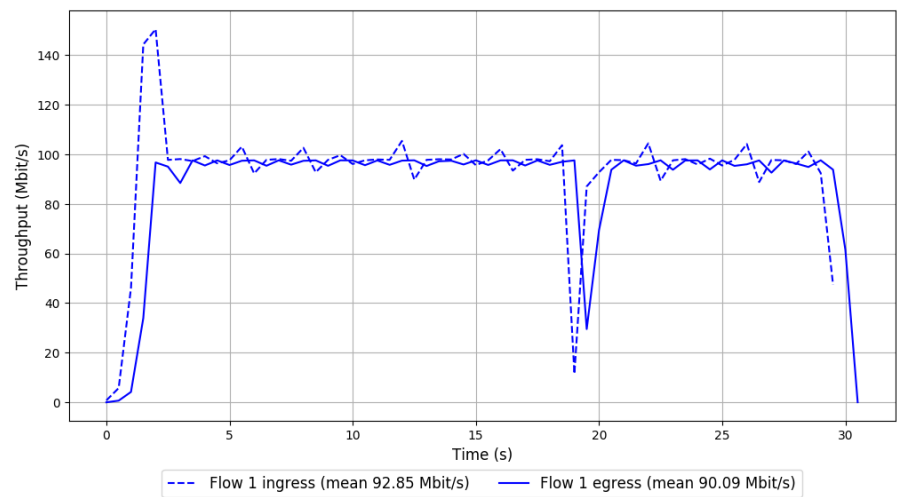


Run 3: Statistics of TCP BBR

Start at: 2019-10-02 18:24:14  
End at: 2019-10-02 18:24:44  
Local clock offset: -7.183 ms  
Remote clock offset: 10.036 ms

# Below is generated by plot.py at 2019-10-02 19:49:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.09 Mbit/s  
95th percentile per-packet one-way delay: 102.906 ms  
Loss rate: 2.97%  
-- Flow 1:  
Average throughput: 90.09 Mbit/s  
95th percentile per-packet one-way delay: 102.906 ms  
Loss rate: 2.97%

Run 3: Report of TCP BBR — Data Link

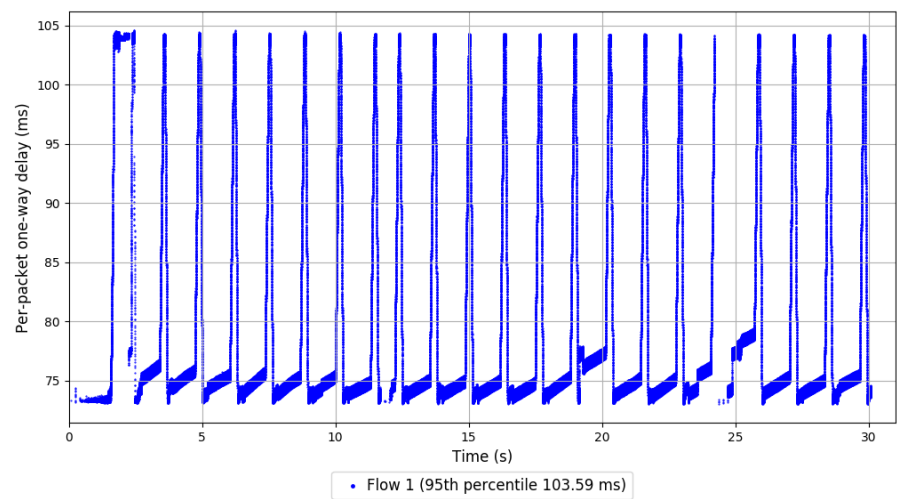
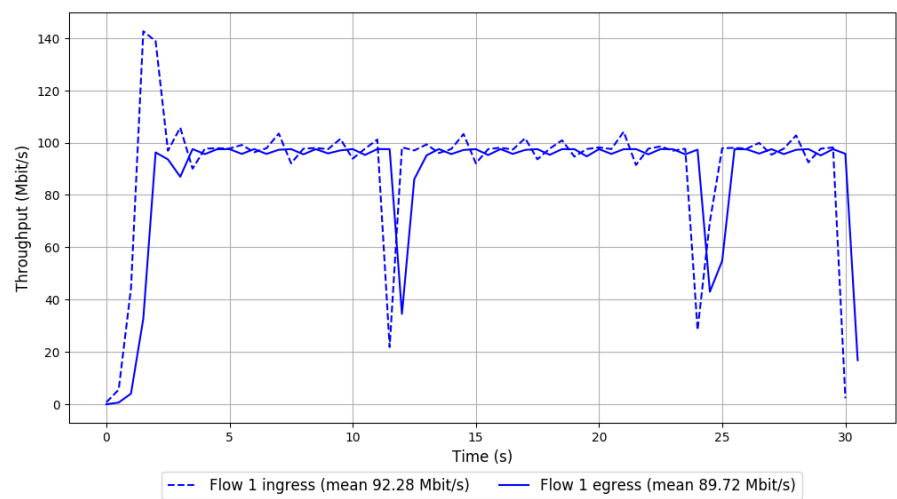


Run 4: Statistics of TCP BBR

Start at: 2019-10-02 18:52:30  
End at: 2019-10-02 18:53:00  
Local clock offset: -8.223 ms  
Remote clock offset: 13.442 ms

# Below is generated by plot.py at 2019-10-02 19:49:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 89.72 Mbit/s  
95th percentile per-packet one-way delay: 103.586 ms  
Loss rate: 2.77%  
-- Flow 1:  
Average throughput: 89.72 Mbit/s  
95th percentile per-packet one-way delay: 103.586 ms  
Loss rate: 2.77%

Run 4: Report of TCP BBR — Data Link



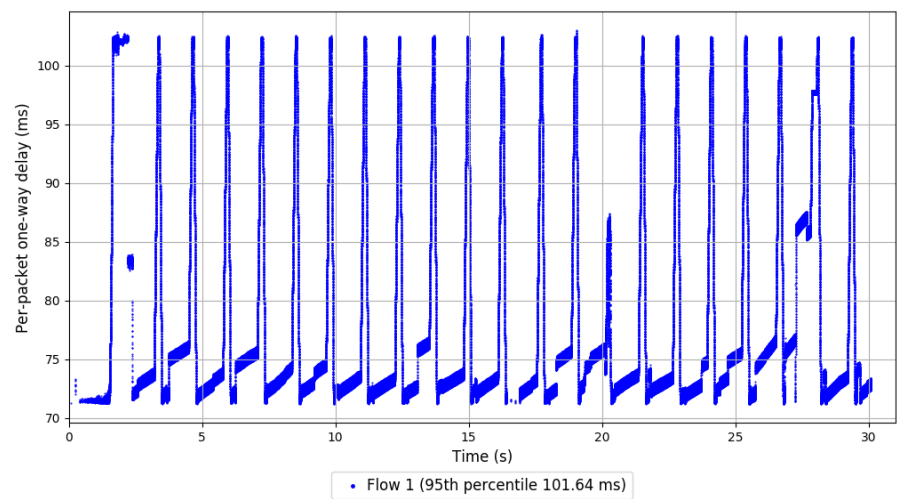
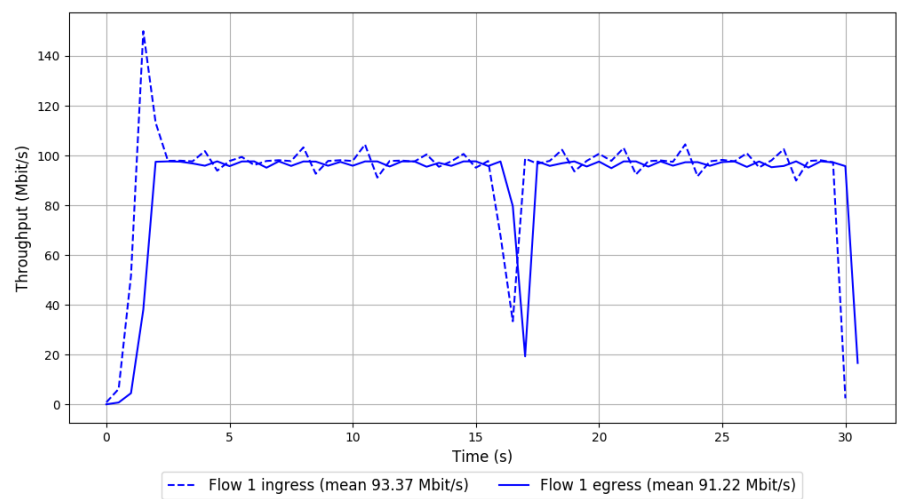


Run 5: Statistics of TCP BBR

Start at: 2019-10-02 19:20:45  
End at: 2019-10-02 19:21:15  
Local clock offset: -6.259 ms  
Remote clock offset: 15.129 ms

# Below is generated by plot.py at 2019-10-02 19:49:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.22 Mbit/s  
95th percentile per-packet one-way delay: 101.642 ms  
Loss rate: 2.29%  
-- Flow 1:  
Average throughput: 91.22 Mbit/s  
95th percentile per-packet one-way delay: 101.642 ms  
Loss rate: 2.29%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-10-02 17:43:07

End at: 2019-10-02 17:43:37

Local clock offset: -7.532 ms

Remote clock offset: 2.427 ms

# Below is generated by plot.py at 2019-10-02 19:49:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.33 Mbit/s

95th percentile per-packet one-way delay: 72.894 ms

Loss rate: 76.54%

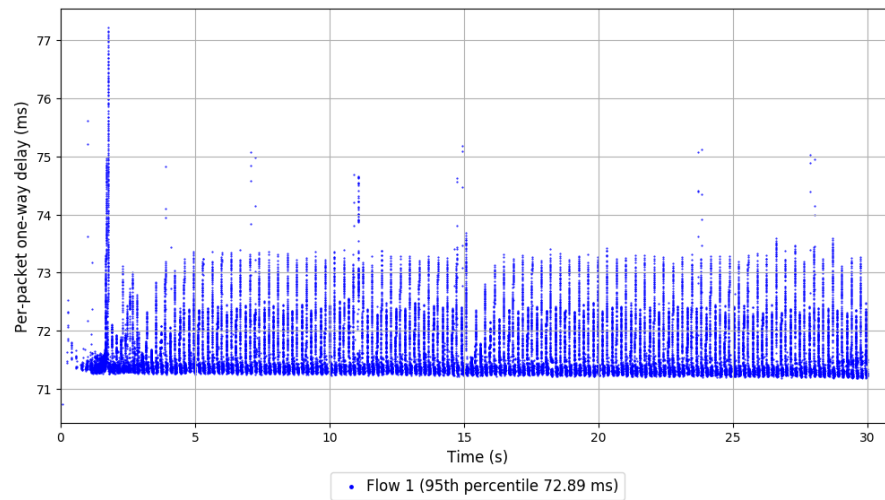
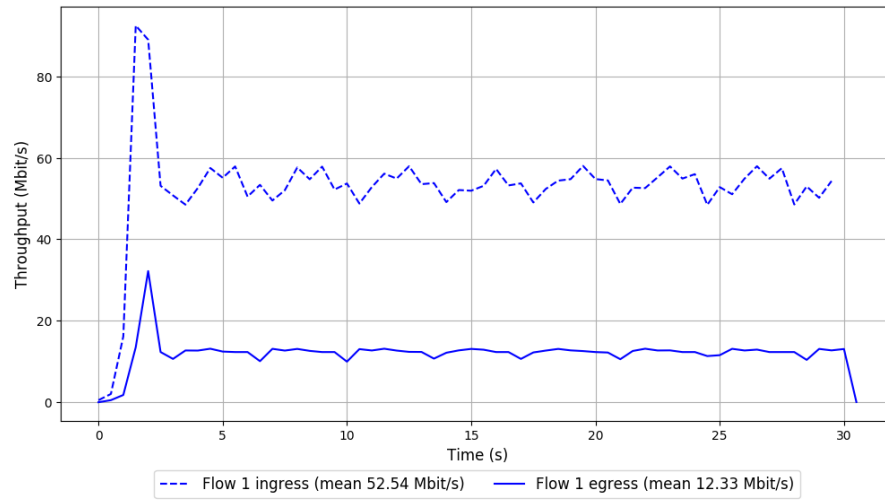
-- Flow 1:

Average throughput: 12.33 Mbit/s

95th percentile per-packet one-way delay: 72.894 ms

Loss rate: 76.54%

## Run 1: Report of Copa — Data Link

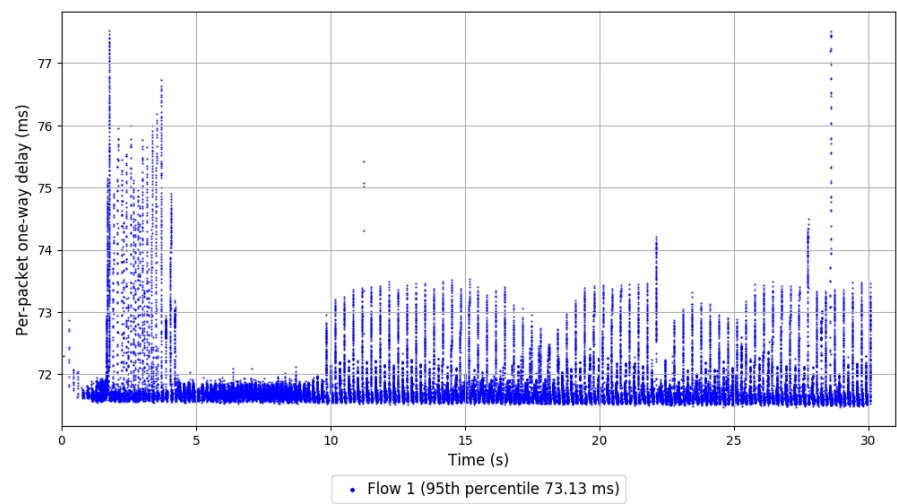
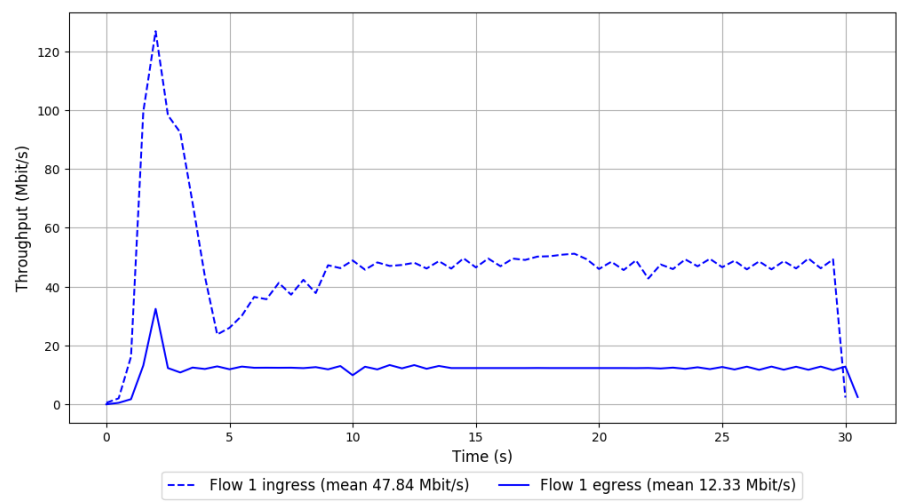


Run 2: Statistics of Copa

Start at: 2019-10-02 18:11:22  
End at: 2019-10-02 18:11:52  
Local clock offset: -6.586 ms  
Remote clock offset: 6.664 ms

# Below is generated by plot.py at 2019-10-02 19:49:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.33 Mbit/s  
95th percentile per-packet one-way delay: 73.129 ms  
Loss rate: 74.23%  
-- Flow 1:  
Average throughput: 12.33 Mbit/s  
95th percentile per-packet one-way delay: 73.129 ms  
Loss rate: 74.23%

Run 2: Report of Copa — Data Link

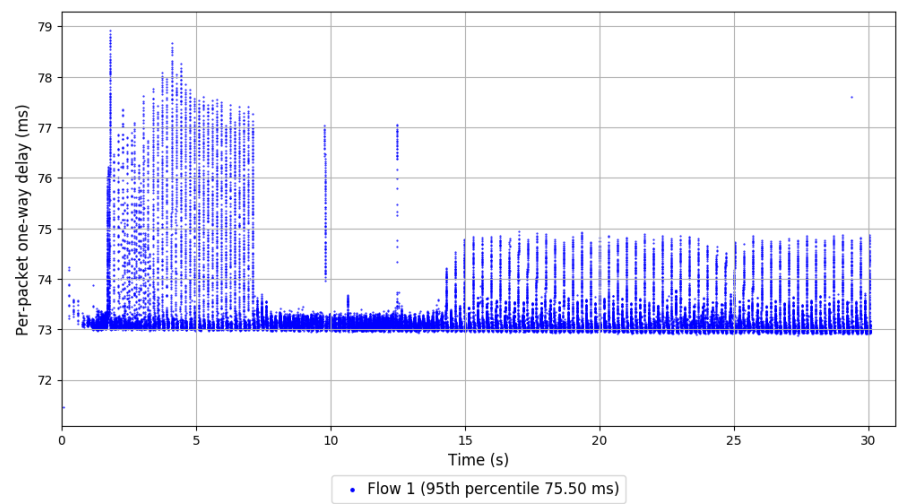
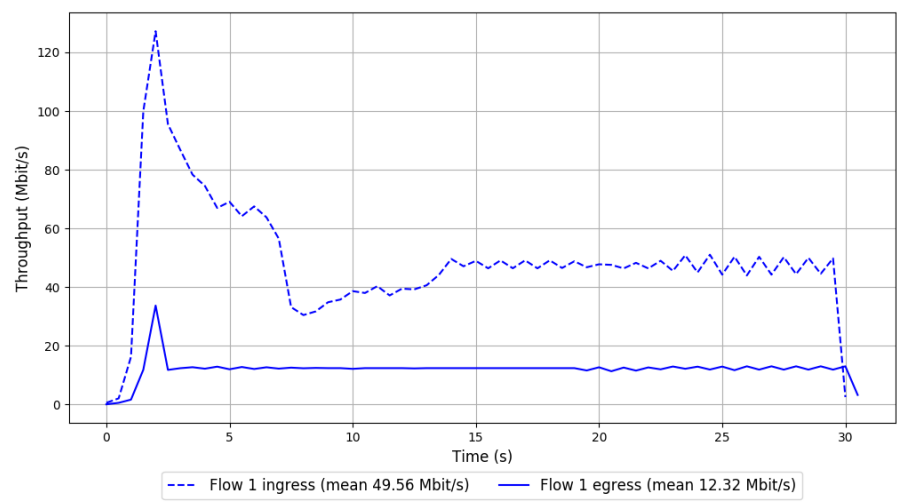


Run 3: Statistics of Copa

Start at: 2019-10-02 18:39:39  
End at: 2019-10-02 18:40:09  
Local clock offset: -7.609 ms  
Remote clock offset: 10.285 ms

# Below is generated by plot.py at 2019-10-02 19:49:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.32 Mbit/s  
95th percentile per-packet one-way delay: 75.497 ms  
Loss rate: 75.15%  
-- Flow 1:  
Average throughput: 12.32 Mbit/s  
95th percentile per-packet one-way delay: 75.497 ms  
Loss rate: 75.15%

Run 3: Report of Copa — Data Link



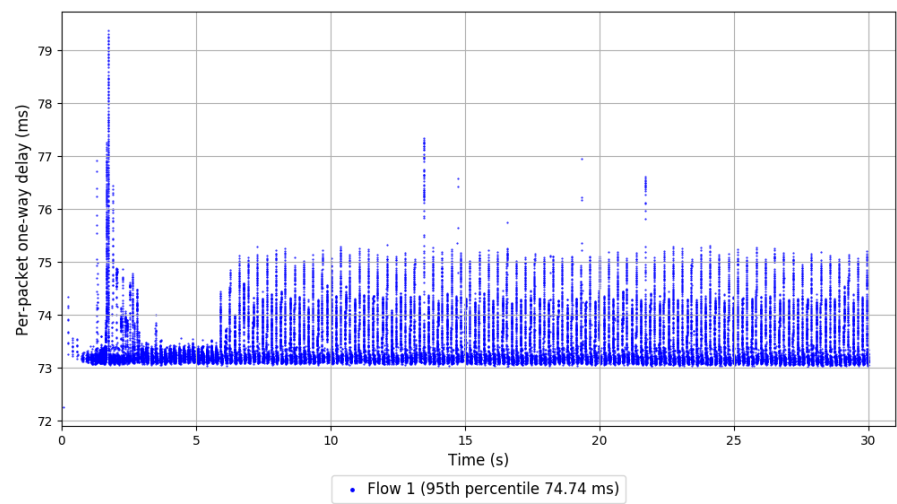
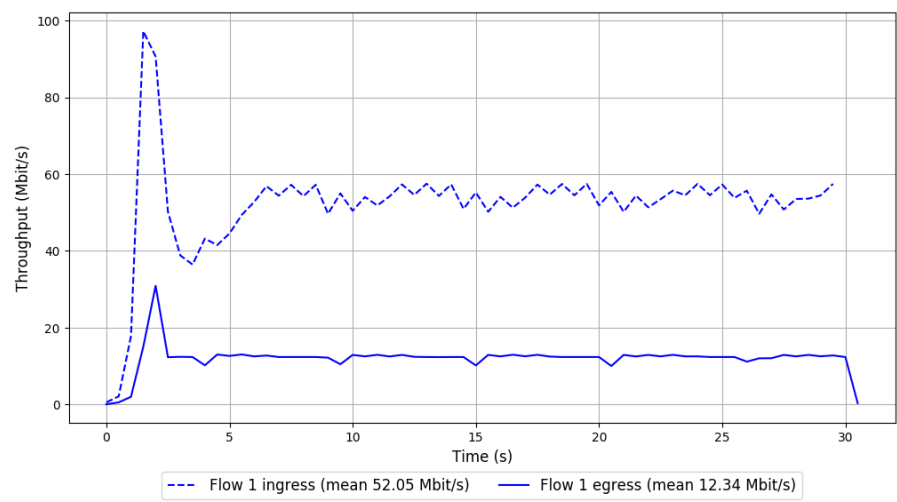


Run 4: Statistics of Copa

Start at: 2019-10-02 19:07:52  
End at: 2019-10-02 19:08:22  
Local clock offset: -6.521 ms  
Remote clock offset: 15.221 ms

# Below is generated by plot.py at 2019-10-02 19:49:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.34 Mbit/s  
95th percentile per-packet one-way delay: 74.741 ms  
Loss rate: 76.30%  
-- Flow 1:  
Average throughput: 12.34 Mbit/s  
95th percentile per-packet one-way delay: 74.741 ms  
Loss rate: 76.30%

Run 4: Report of Copa — Data Link

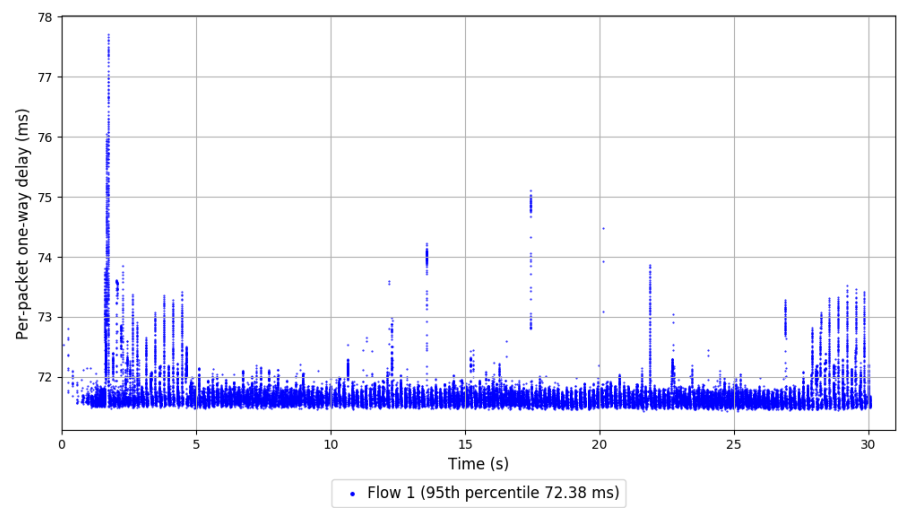
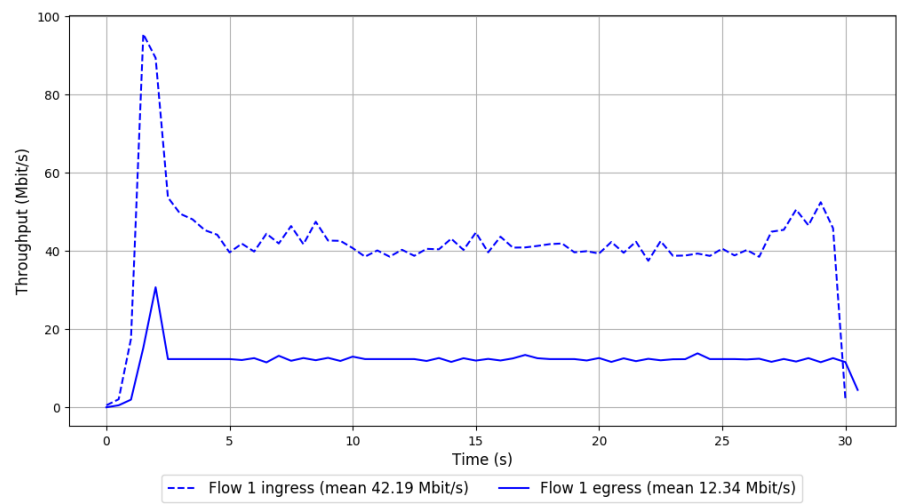


Run 5: Statistics of Copa

Start at: 2019-10-02 19:36:08  
End at: 2019-10-02 19:36:38  
Local clock offset: -5.725 ms  
Remote clock offset: 16.926 ms

# Below is generated by plot.py at 2019-10-02 19:49:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.34 Mbit/s  
95th percentile per-packet one-way delay: 72.383 ms  
Loss rate: 70.77%  
-- Flow 1:  
Average throughput: 12.34 Mbit/s  
95th percentile per-packet one-way delay: 72.383 ms  
Loss rate: 70.77%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-10-02 17:50:00

End at: 2019-10-02 17:50:30

Local clock offset: -7.622 ms

Remote clock offset: 5.39 ms

# Below is generated by plot.py at 2019-10-02 19:49:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.79 Mbit/s

95th percentile per-packet one-way delay: 97.396 ms

Loss rate: 0.52%

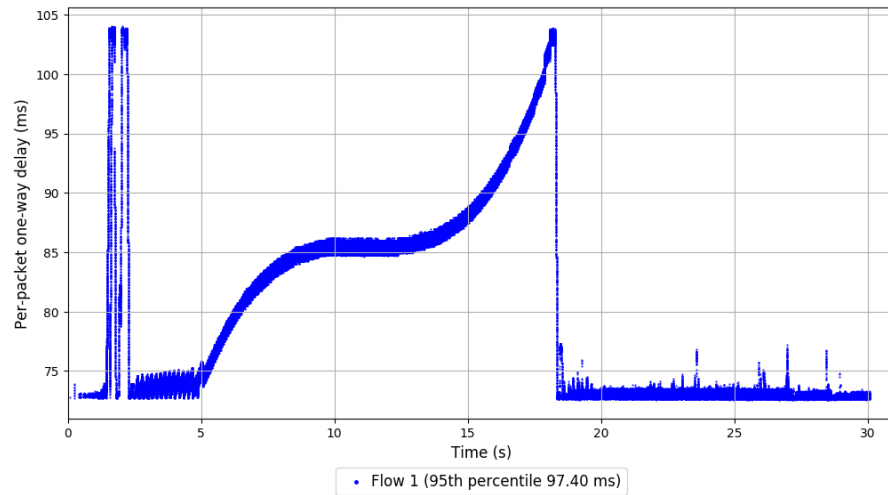
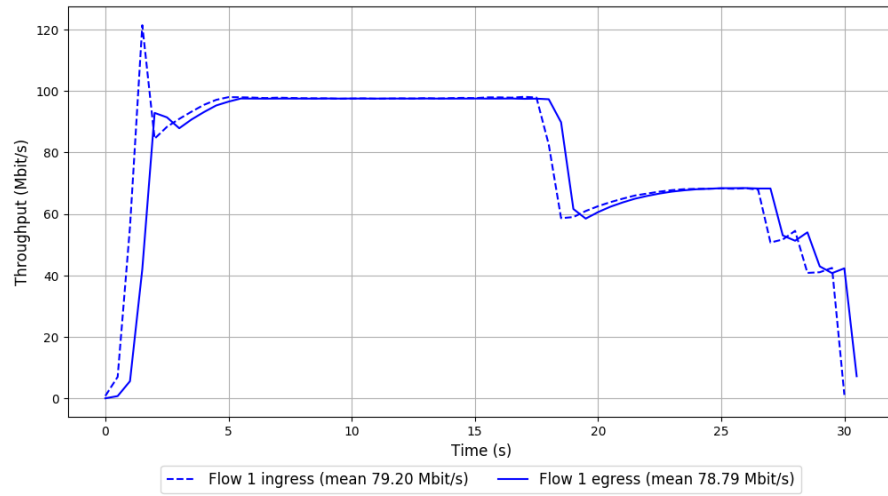
-- Flow 1:

Average throughput: 78.79 Mbit/s

95th percentile per-packet one-way delay: 97.396 ms

Loss rate: 0.52%

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



Run 2: Statistics of TCP Cubic

Start at: 2019-10-02 18:18:18

End at: 2019-10-02 18:18:48

Local clock offset: -6.83 ms

Remote clock offset: 7.553 ms

# Below is generated by plot.py at 2019-10-02 19:50:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.43 Mbit/s

95th percentile per-packet one-way delay: 101.801 ms

Loss rate: 0.43%

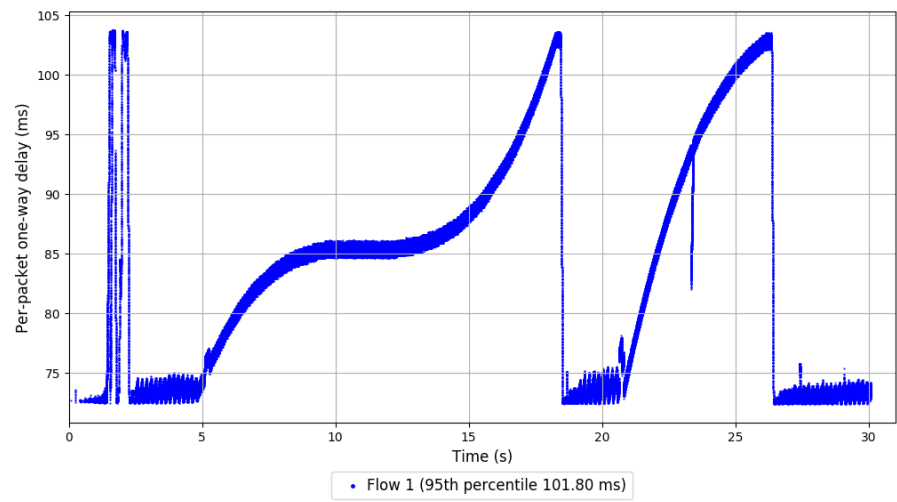
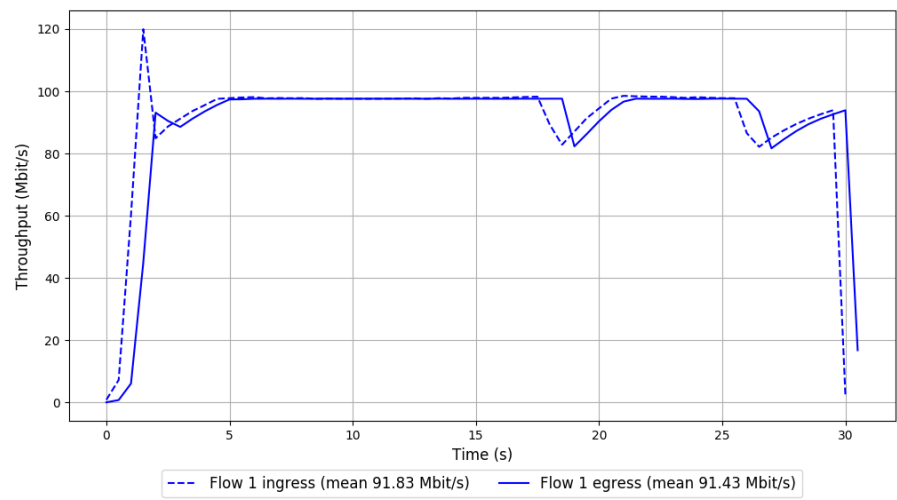
-- Flow 1:

Average throughput: 91.43 Mbit/s

95th percentile per-packet one-way delay: 101.801 ms

Loss rate: 0.43%

Run 2: Report of TCP Cubic — Data Link



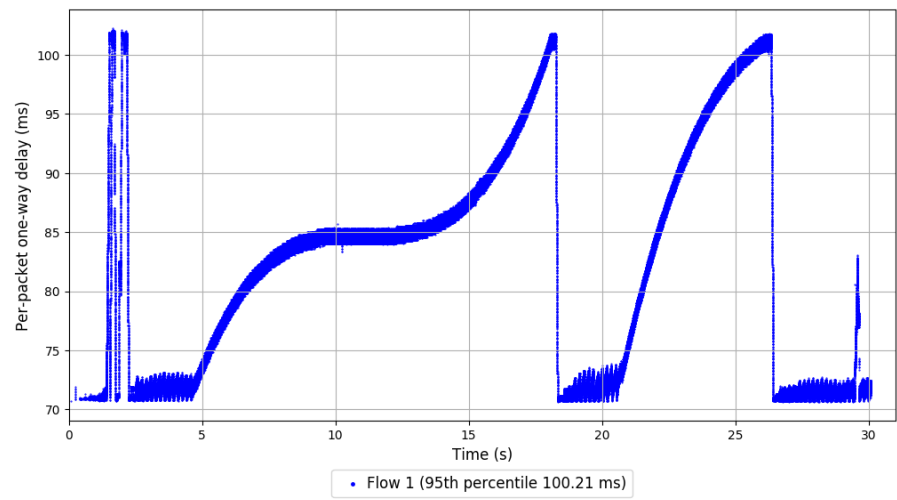
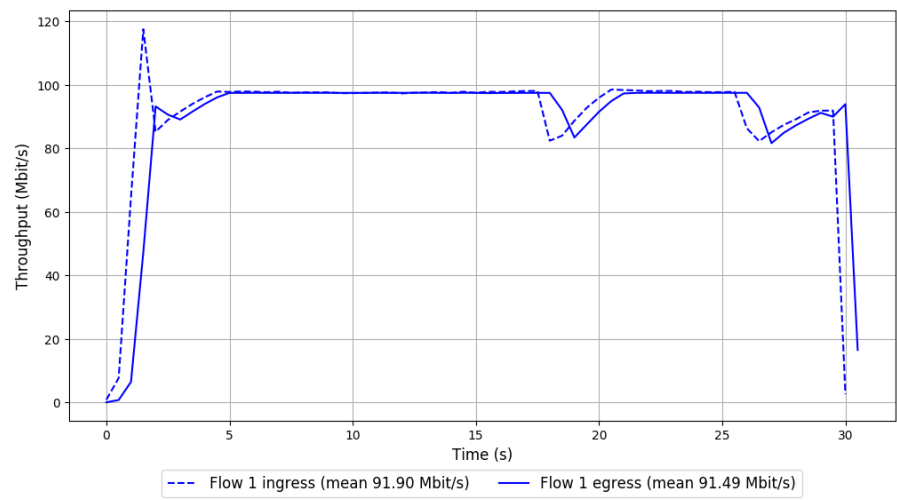


Run 3: Statistics of TCP Cubic

Start at: 2019-10-02 18:46:34  
End at: 2019-10-02 18:47:04  
Local clock offset: -7.882 ms  
Remote clock offset: 10.916 ms

# Below is generated by plot.py at 2019-10-02 19:50:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.49 Mbit/s  
95th percentile per-packet one-way delay: 100.212 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 91.49 Mbit/s  
95th percentile per-packet one-way delay: 100.212 ms  
Loss rate: 0.43%

Run 3: Report of TCP Cubic — Data Link

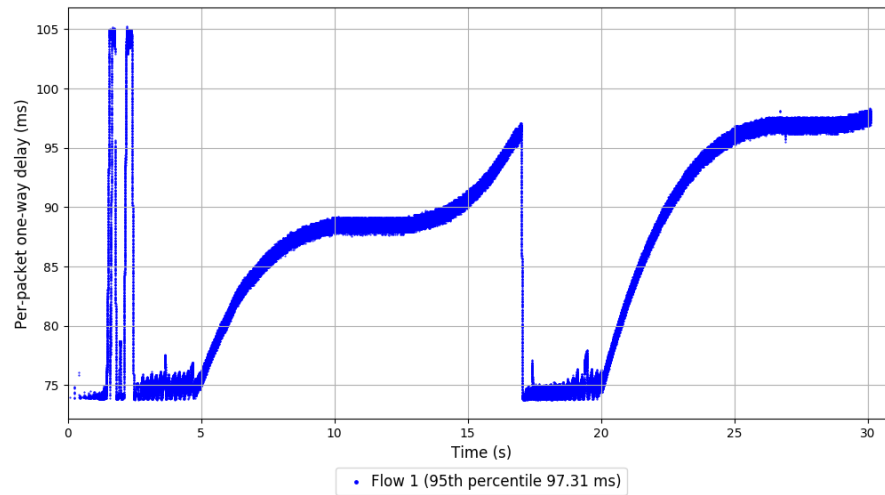
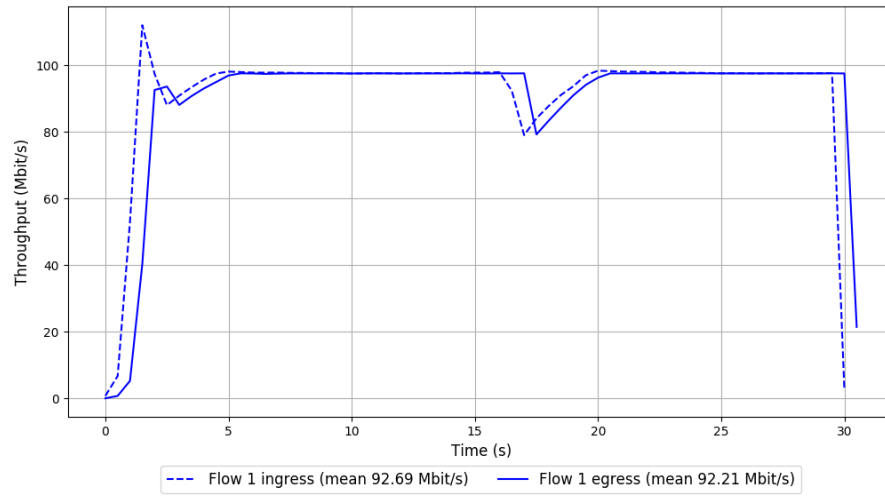


Run 4: Statistics of TCP Cubic

Start at: 2019-10-02 19:14:47  
End at: 2019-10-02 19:15:17  
Local clock offset: -6.263 ms  
Remote clock offset: 16.012 ms

# Below is generated by plot.py at 2019-10-02 19:50:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.21 Mbit/s  
95th percentile per-packet one-way delay: 97.306 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 92.21 Mbit/s  
95th percentile per-packet one-way delay: 97.306 ms  
Loss rate: 0.44%

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

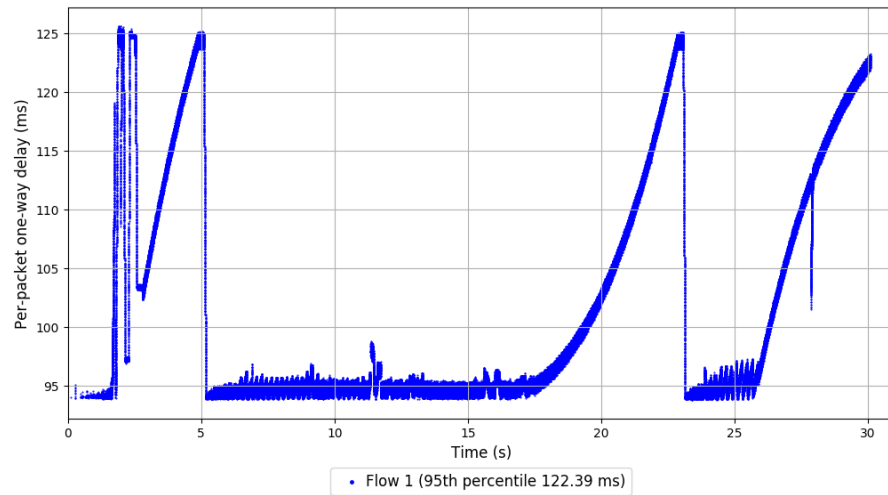
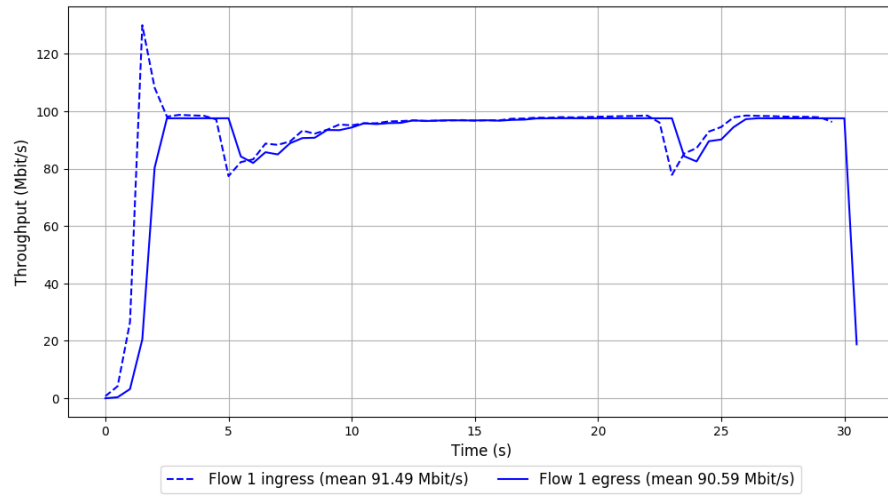


Run 5: Statistics of TCP Cubic

Start at: 2019-10-02 19:43:01  
End at: 2019-10-02 19:43:31  
Local clock offset: -5.665 ms  
Remote clock offset: 19.414 ms

# Below is generated by plot.py at 2019-10-02 19:50:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.59 Mbit/s  
95th percentile per-packet one-way delay: 122.394 ms  
Loss rate: 0.95%  
-- Flow 1:  
Average throughput: 90.59 Mbit/s  
95th percentile per-packet one-way delay: 122.394 ms  
Loss rate: 0.95%

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



Run 1: Statistics of FillP

Start at: 2019-10-02 17:36:06

End at: 2019-10-02 17:36:36

Local clock offset: -5.399 ms

Remote clock offset: 0.29 ms

# Below is generated by plot.py at 2019-10-02 19:51:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.93 Mbit/s

95th percentile per-packet one-way delay: 85.917 ms

Loss rate: 1.00%

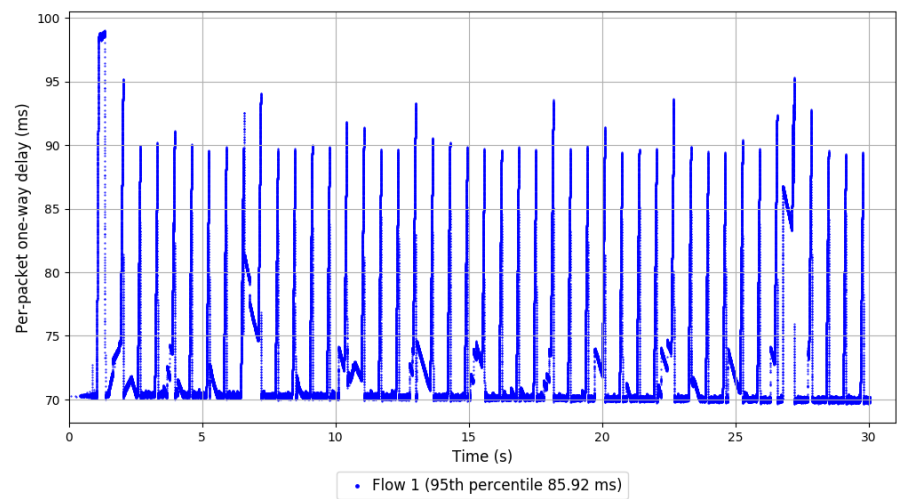
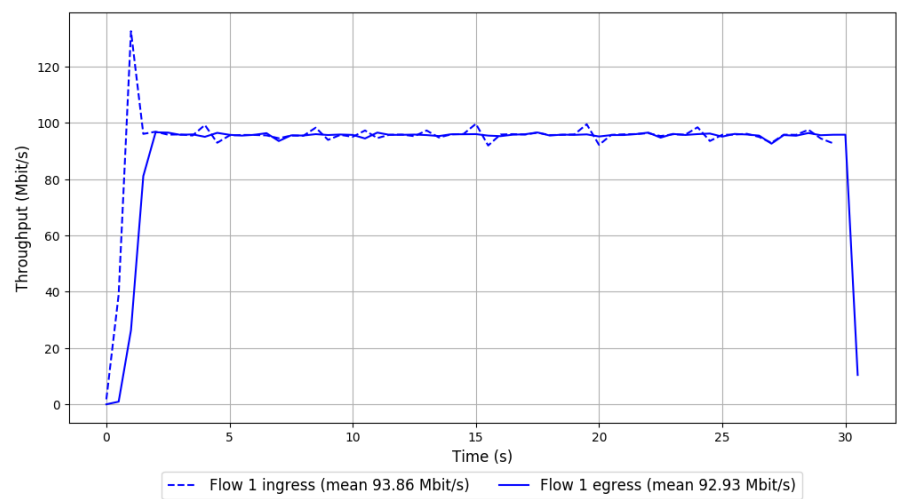
-- Flow 1:

Average throughput: 92.93 Mbit/s

95th percentile per-packet one-way delay: 85.917 ms

Loss rate: 1.00%

Run 1: Report of FillP — Data Link





Run 2: Statistics of FillP

Start at: 2019-10-02 18:04:18

End at: 2019-10-02 18:04:48

Local clock offset: -6.665 ms

Remote clock offset: 5.686 ms

# Below is generated by plot.py at 2019-10-02 19:51:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.06 Mbit/s

95th percentile per-packet one-way delay: 87.527 ms

Loss rate: 0.94%

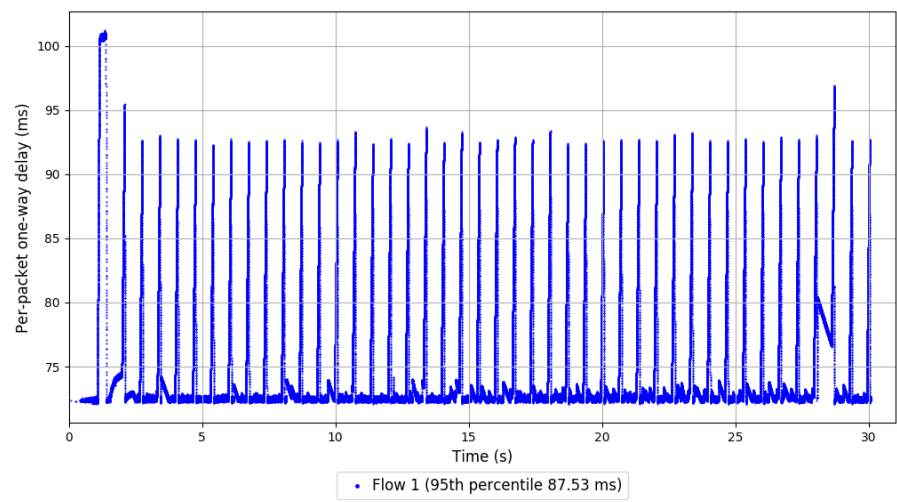
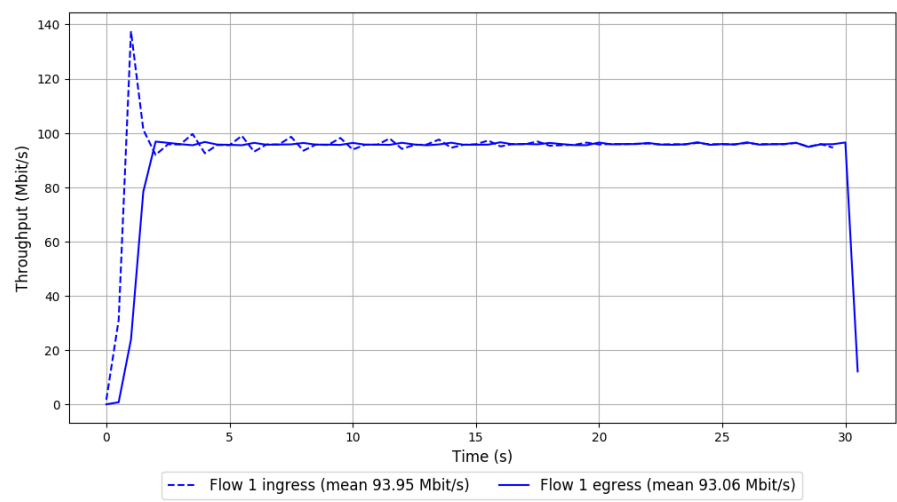
-- Flow 1:

Average throughput: 93.06 Mbit/s

95th percentile per-packet one-way delay: 87.527 ms

Loss rate: 0.94%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-10-02 18:32:36

End at: 2019-10-02 18:33:06

Local clock offset: -7.295 ms

Remote clock offset: 9.356 ms

# Below is generated by plot.py at 2019-10-02 19:51:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.83 Mbit/s

95th percentile per-packet one-way delay: 89.975 ms

Loss rate: 1.35%

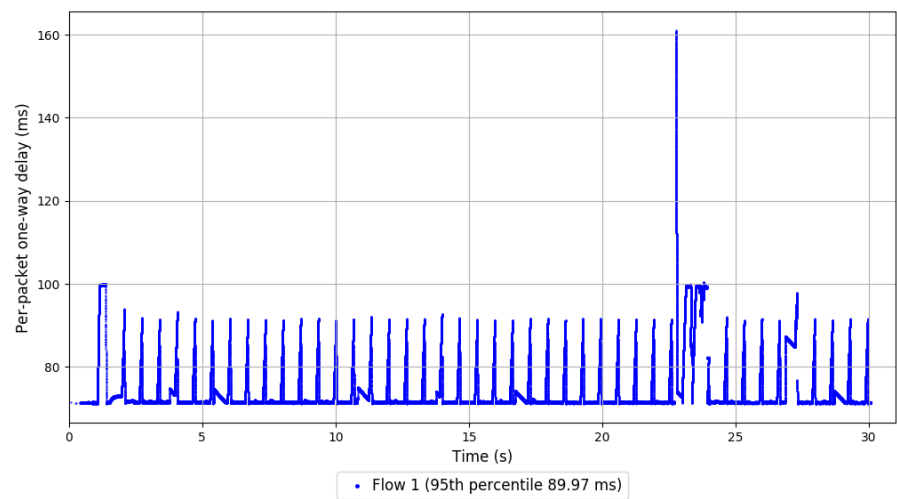
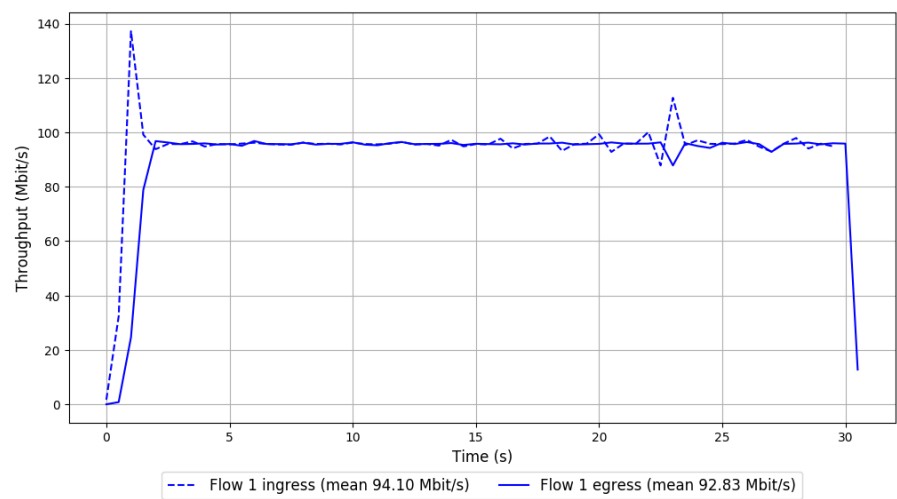
-- Flow 1:

Average throughput: 92.83 Mbit/s

95th percentile per-packet one-way delay: 89.975 ms

Loss rate: 1.35%

Run 3: Report of FillP — Data Link

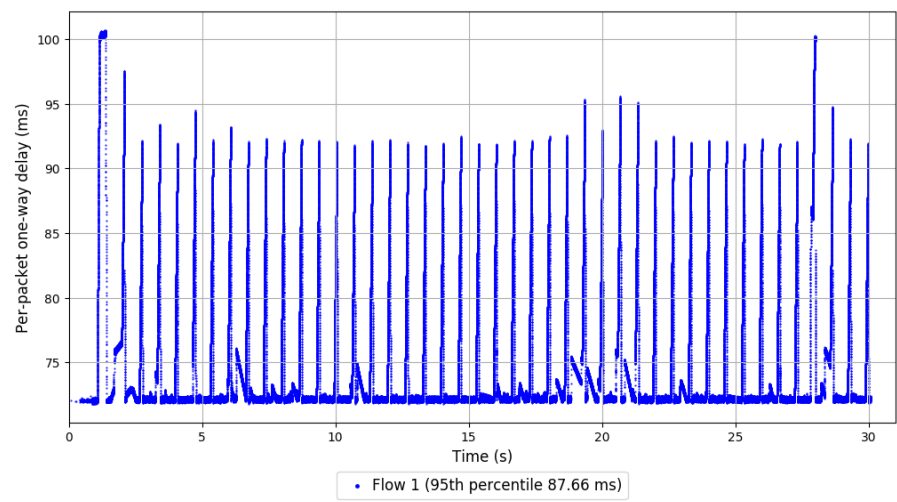
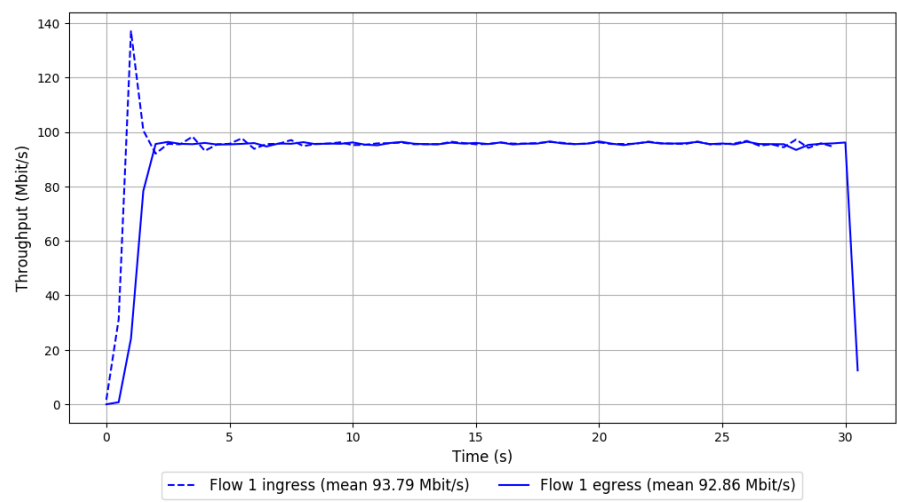


Run 4: Statistics of FillP

Start at: 2019-10-02 19:00:51  
End at: 2019-10-02 19:01:22  
Local clock offset: -7.106 ms  
Remote clock offset: 12.973 ms

# Below is generated by plot.py at 2019-10-02 19:51:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.86 Mbit/s  
95th percentile per-packet one-way delay: 87.664 ms  
Loss rate: 0.99%  
-- Flow 1:  
Average throughput: 92.86 Mbit/s  
95th percentile per-packet one-way delay: 87.664 ms  
Loss rate: 0.99%

Run 4: Report of FillP — Data Link

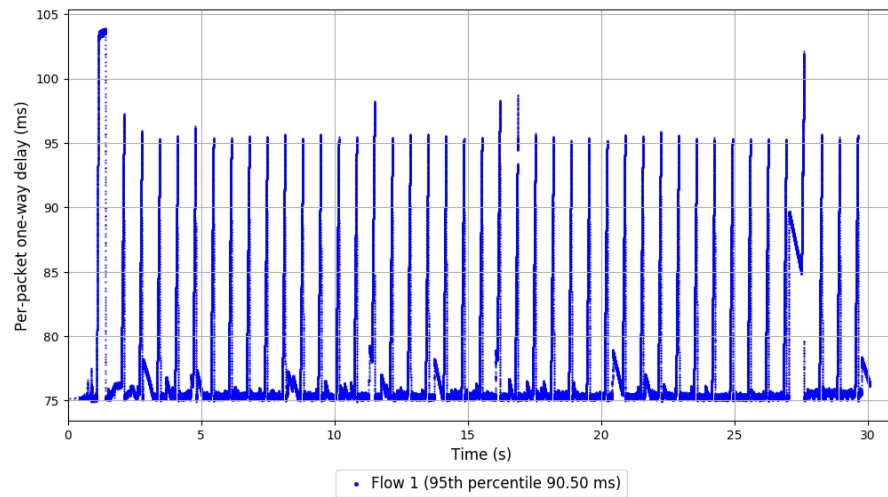
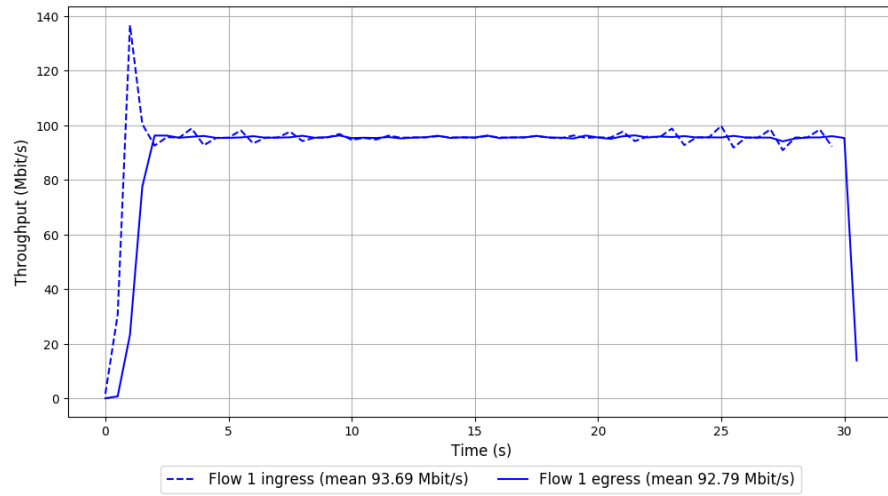


Run 5: Statistics of FillP

Start at: 2019-10-02 19:29:07  
End at: 2019-10-02 19:29:37  
Local clock offset: -5.967 ms  
Remote clock offset: 17.975 ms

# Below is generated by plot.py at 2019-10-02 19:51:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.79 Mbit/s  
95th percentile per-packet one-way delay: 90.496 ms  
Loss rate: 0.95%  
-- Flow 1:  
Average throughput: 92.79 Mbit/s  
95th percentile per-packet one-way delay: 90.496 ms  
Loss rate: 0.95%

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





Run 1: Statistics of FillP-Sheep

Start at: 2019-10-02 17:31:20

End at: 2019-10-02 17:31:50

Local clock offset: -0.815 ms

Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2019-10-02 19:51:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.57 Mbit/s

95th percentile per-packet one-way delay: 86.463 ms

Loss rate: 0.94%

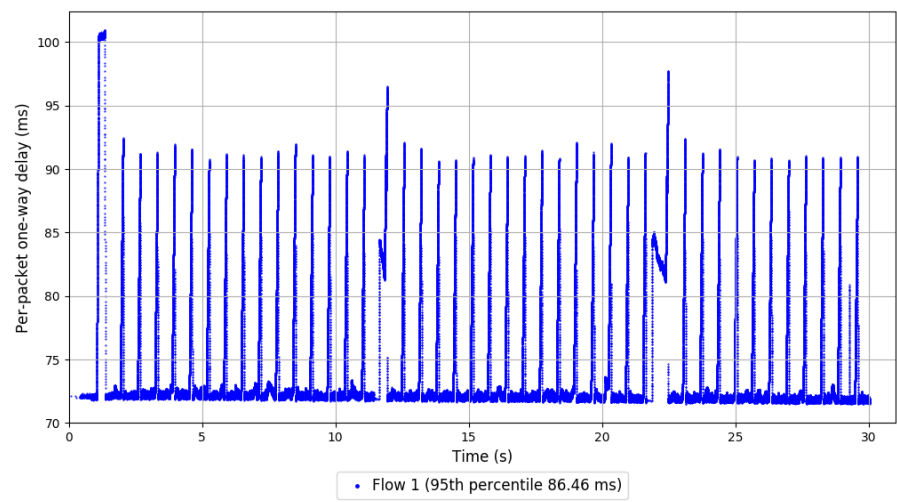
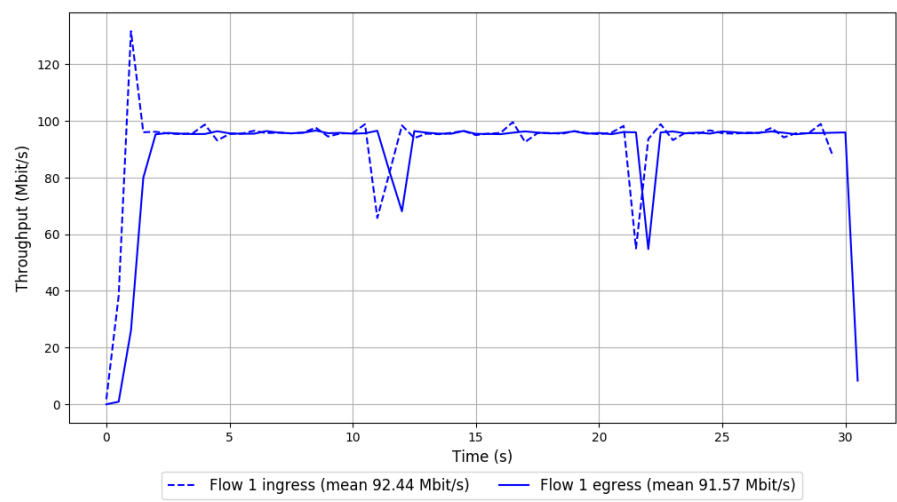
-- Flow 1:

Average throughput: 91.57 Mbit/s

95th percentile per-packet one-way delay: 86.463 ms

Loss rate: 0.94%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-10-02 17:59:31

End at: 2019-10-02 18:00:01

Local clock offset: -7.165 ms

Remote clock offset: 6.856 ms

# Below is generated by plot.py at 2019-10-02 19:52:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.51 Mbit/s

95th percentile per-packet one-way delay: 88.435 ms

Loss rate: 0.97%

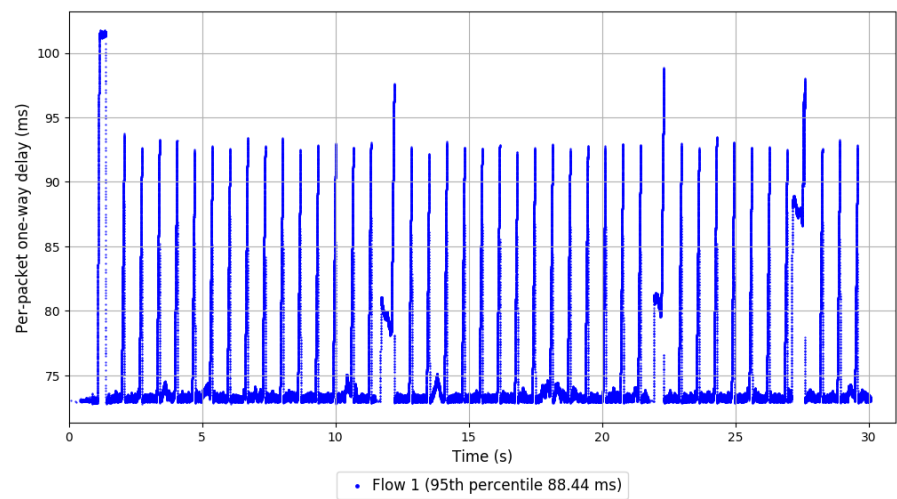
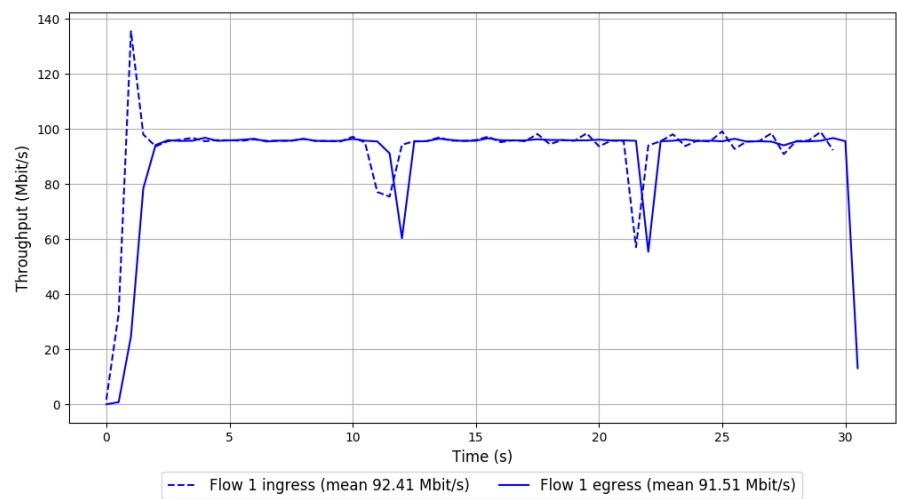
-- Flow 1:

Average throughput: 91.51 Mbit/s

95th percentile per-packet one-way delay: 88.435 ms

Loss rate: 0.97%

Run 2: Report of FillP-Sheep — Data Link

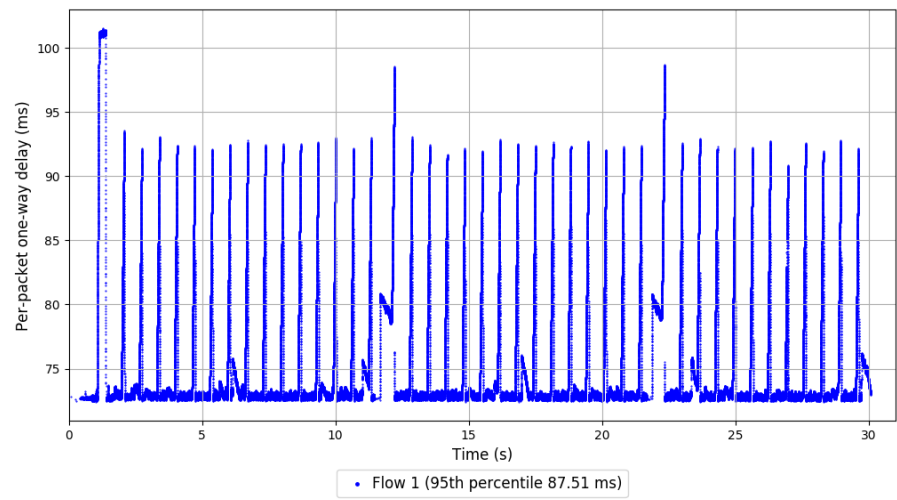
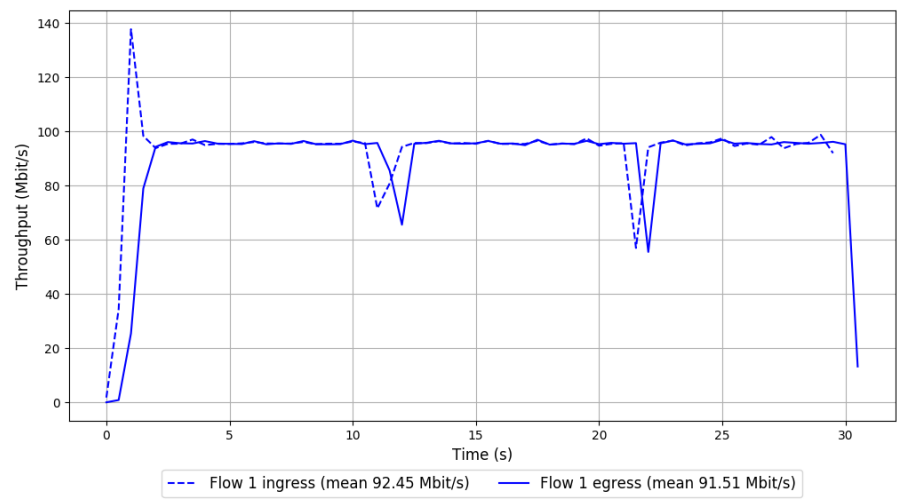


Run 3: Statistics of FillP-Sheep

Start at: 2019-10-02 18:27:49  
End at: 2019-10-02 18:28:19  
Local clock offset: -7.258 ms  
Remote clock offset: 10.449 ms

# Below is generated by plot.py at 2019-10-02 19:52:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.51 Mbit/s  
95th percentile per-packet one-way delay: 87.510 ms  
Loss rate: 1.01%  
-- Flow 1:  
Average throughput: 91.51 Mbit/s  
95th percentile per-packet one-way delay: 87.510 ms  
Loss rate: 1.01%

Run 3: Report of FillP-Sheep — Data Link

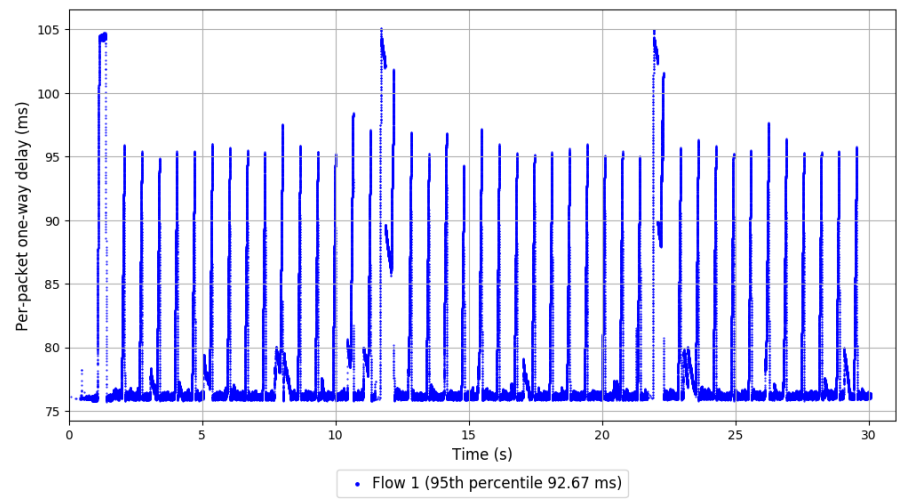
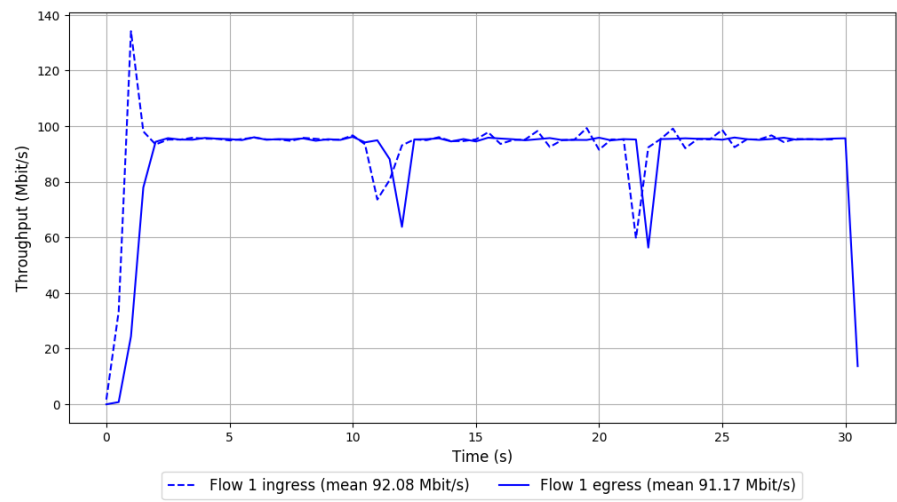


Run 4: Statistics of FillP-Sheep

Start at: 2019-10-02 18:56:05  
End at: 2019-10-02 18:56:35  
Local clock offset: -8.022 ms  
Remote clock offset: 14.051 ms

# Below is generated by plot.py at 2019-10-02 19:52:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.17 Mbit/s  
95th percentile per-packet one-way delay: 92.665 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 91.17 Mbit/s  
95th percentile per-packet one-way delay: 92.665 ms  
Loss rate: 0.98%

Run 4: Report of FillP-Sheep — Data Link



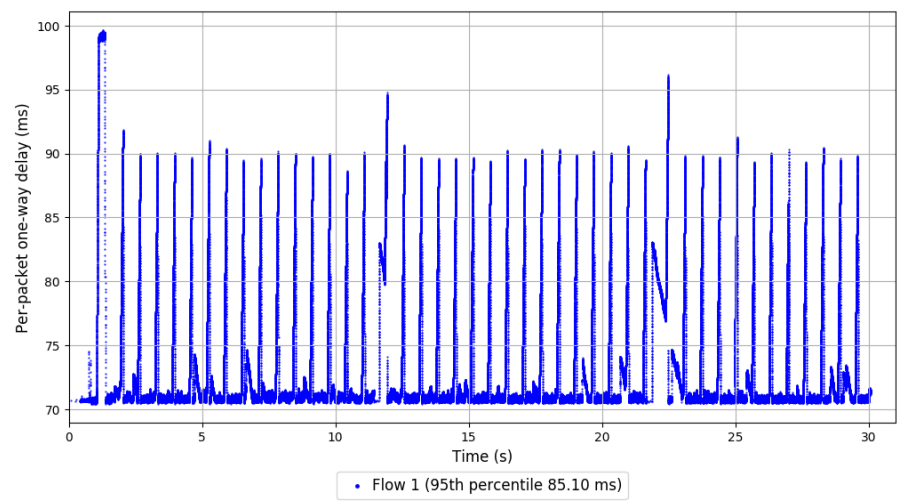
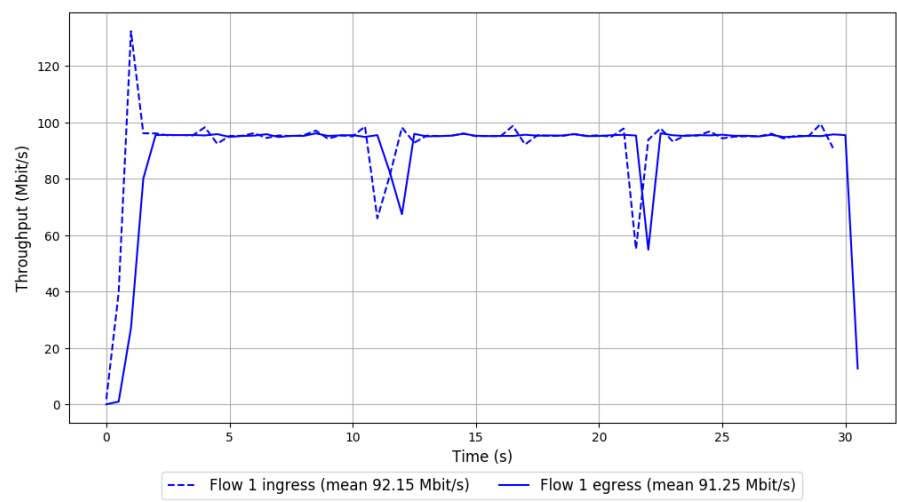


Run 5: Statistics of FillP-Sheep

Start at: 2019-10-02 19:24:21  
End at: 2019-10-02 19:24:51  
Local clock offset: -6.383 ms  
Remote clock offset: 15.525 ms

# Below is generated by plot.py at 2019-10-02 19:52:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.25 Mbit/s  
95th percentile per-packet one-way delay: 85.102 ms  
Loss rate: 0.97%  
-- Flow 1:  
Average throughput: 91.25 Mbit/s  
95th percentile per-packet one-way delay: 85.102 ms  
Loss rate: 0.97%

Run 5: Report of FillP-Sheep — Data Link

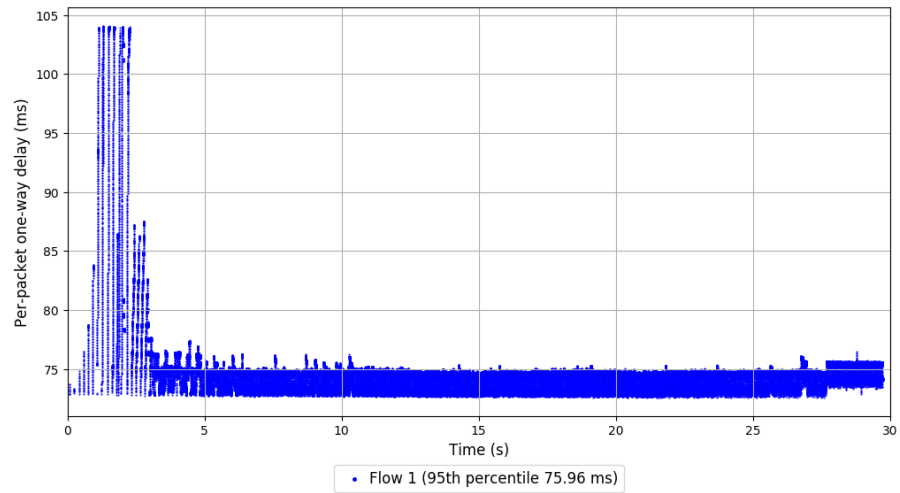
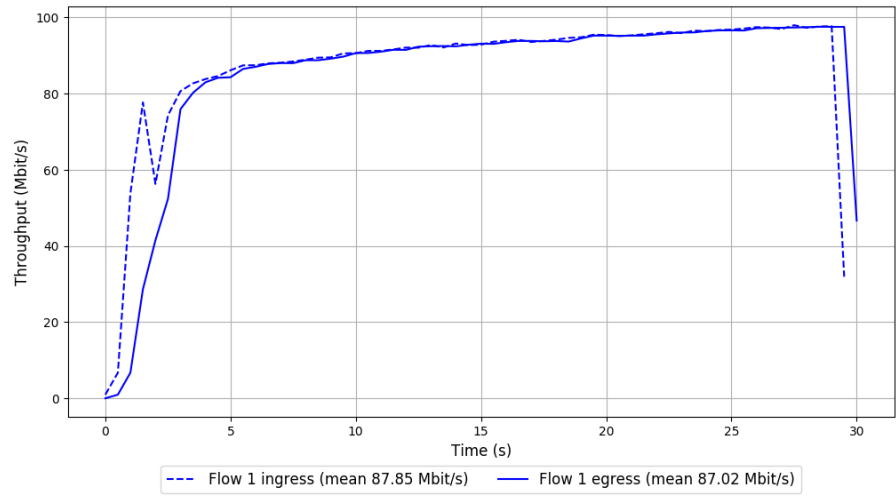


Run 1: Statistics of Indigo

Start at: 2019-10-02 17:32:31  
End at: 2019-10-02 17:33:01  
Local clock offset: -1.285 ms  
Remote clock offset: -0.998 ms

# Below is generated by plot.py at 2019-10-02 19:52:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.02 Mbit/s  
95th percentile per-packet one-way delay: 75.964 ms  
Loss rate: 0.94%  
-- Flow 1:  
Average throughput: 87.02 Mbit/s  
95th percentile per-packet one-way delay: 75.964 ms  
Loss rate: 0.94%

## Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-10-02 18:00:42

End at: 2019-10-02 18:01:12

Local clock offset: -6.94 ms

Remote clock offset: 6.895 ms

# Below is generated by plot.py at 2019-10-02 19:52:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.83 Mbit/s

95th percentile per-packet one-way delay: 78.185 ms

Loss rate: 1.13%

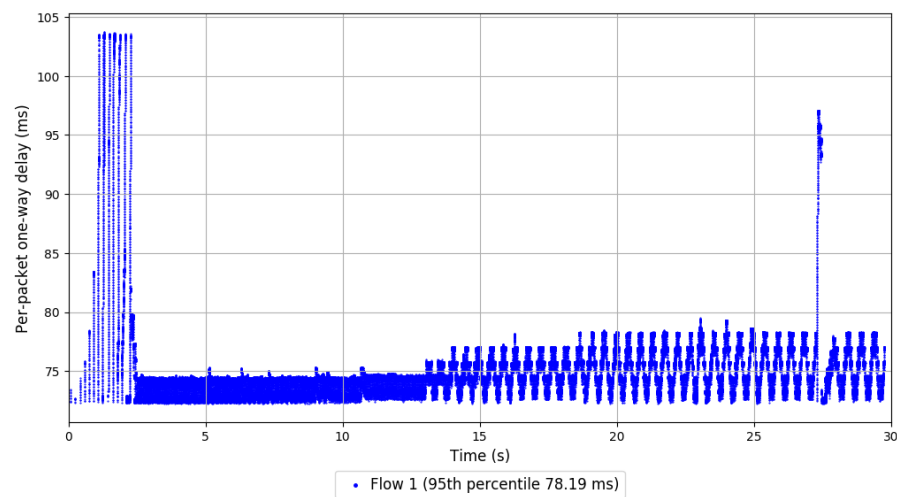
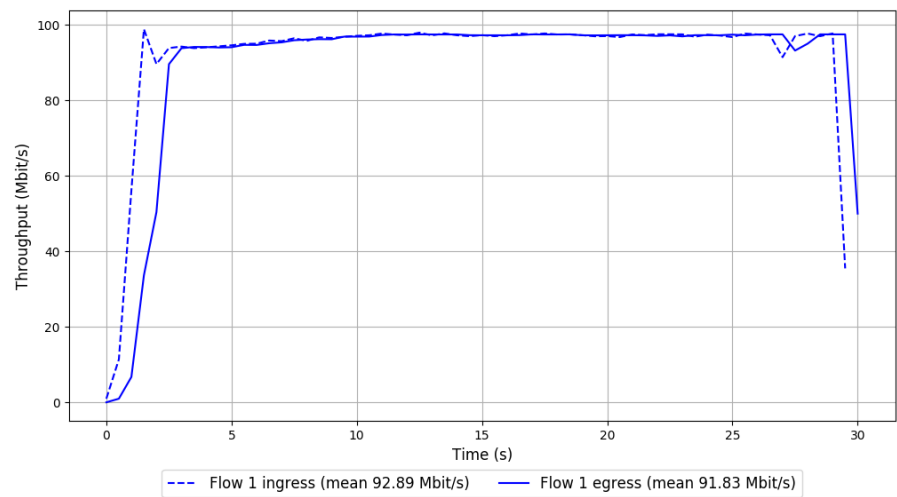
-- Flow 1:

Average throughput: 91.83 Mbit/s

95th percentile per-packet one-way delay: 78.185 ms

Loss rate: 1.13%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-10-02 18:29:00

End at: 2019-10-02 18:29:30

Local clock offset: -7.264 ms

Remote clock offset: 8.78 ms

# Below is generated by plot.py at 2019-10-02 19:52:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.34 Mbit/s

95th percentile per-packet one-way delay: 75.888 ms

Loss rate: 1.08%

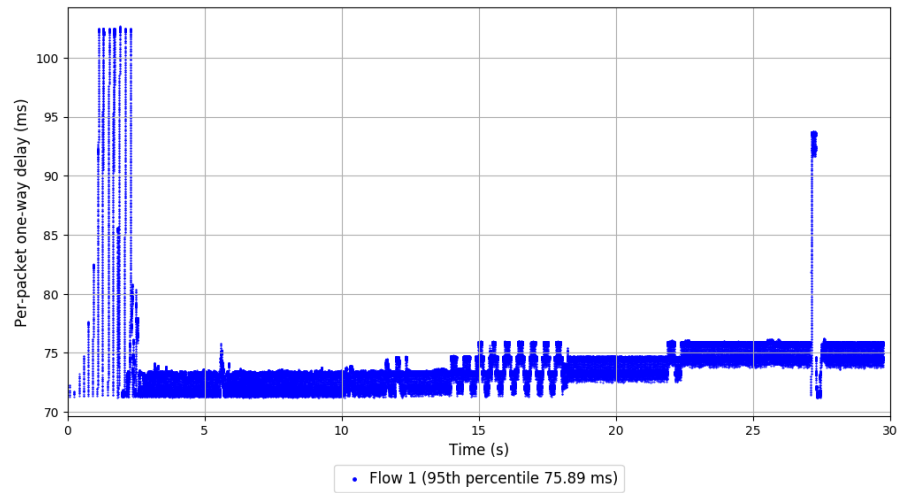
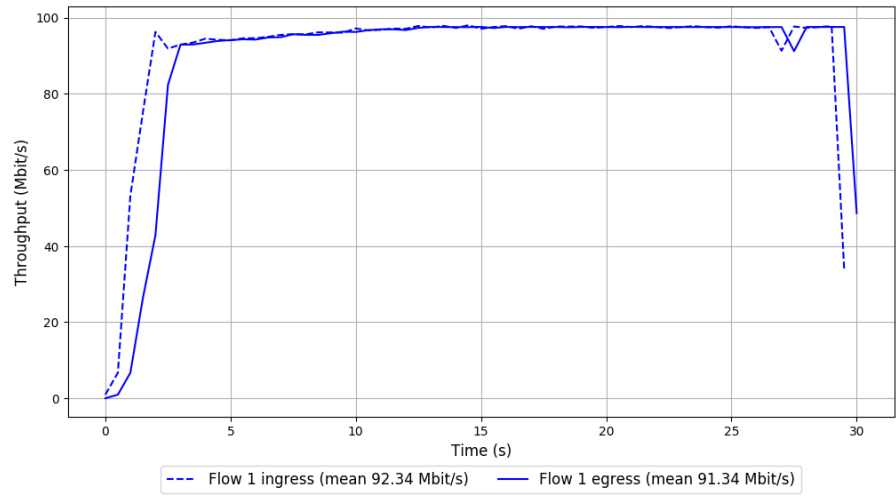
-- Flow 1:

Average throughput: 91.34 Mbit/s

95th percentile per-packet one-way delay: 75.888 ms

Loss rate: 1.08%

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



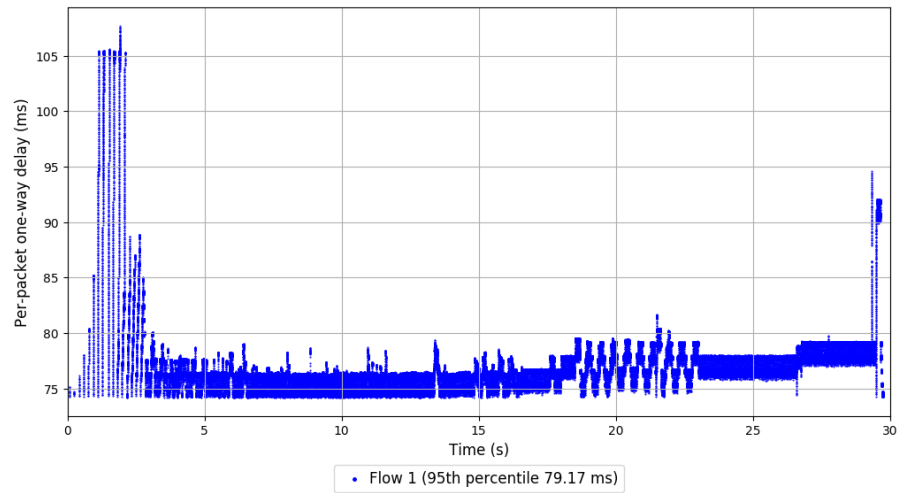
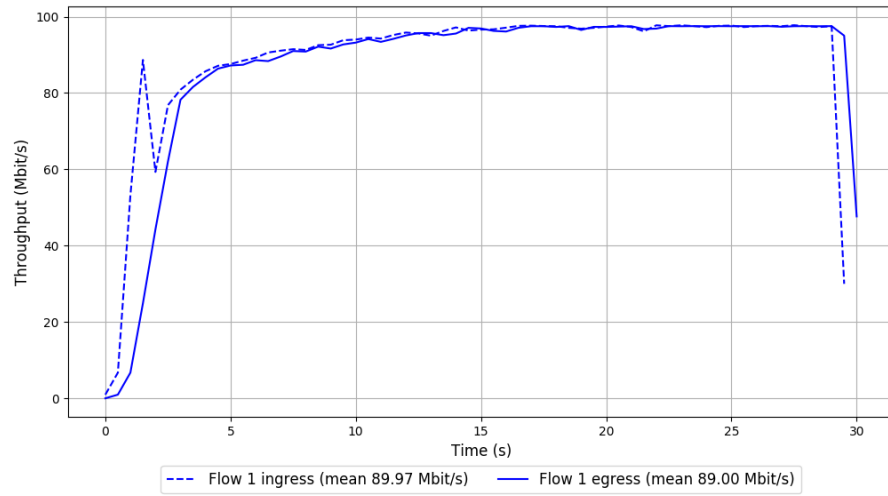


Run 4: Statistics of Indigo

Start at: 2019-10-02 18:57:16  
End at: 2019-10-02 18:57:46  
Local clock offset: -7.824 ms  
Remote clock offset: 14.219 ms

# Below is generated by plot.py at 2019-10-02 19:52:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 89.00 Mbit/s  
95th percentile per-packet one-way delay: 79.171 ms  
Loss rate: 1.08%  
-- Flow 1:  
Average throughput: 89.00 Mbit/s  
95th percentile per-packet one-way delay: 79.171 ms  
Loss rate: 1.08%

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

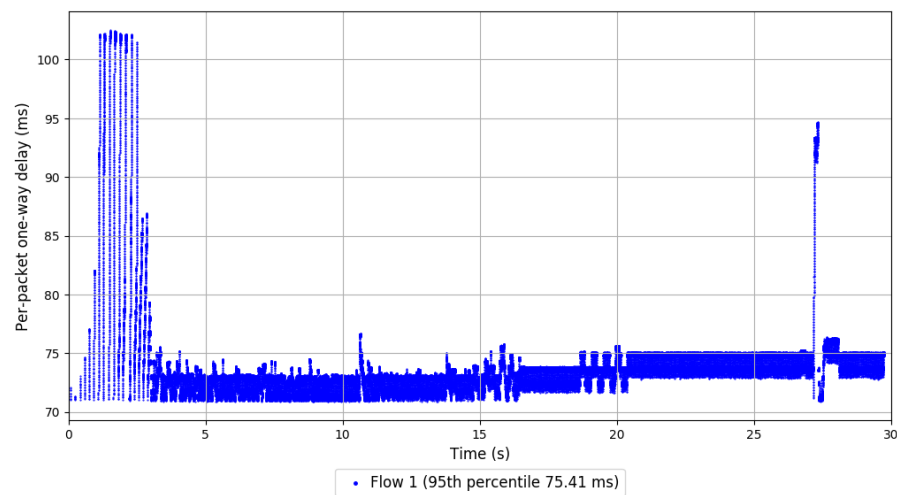
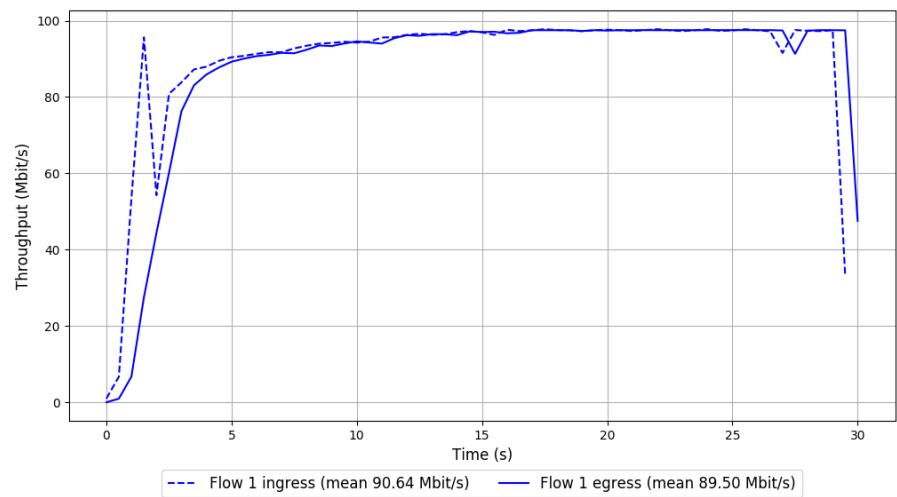


Run 5: Statistics of Indigo

Start at: 2019-10-02 19:25:32  
End at: 2019-10-02 19:26:02  
Local clock offset: -6.331 ms  
Remote clock offset: 15.683 ms

# Below is generated by plot.py at 2019-10-02 19:53:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 89.50 Mbit/s  
95th percentile per-packet one-way delay: 75.411 ms  
Loss rate: 1.24%  
-- Flow 1:  
Average throughput: 89.50 Mbit/s  
95th percentile per-packet one-way delay: 75.411 ms  
Loss rate: 1.24%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-10-02 17:40:48

End at: 2019-10-02 17:41:18

Local clock offset: -7.383 ms

Remote clock offset: 1.923 ms

# Below is generated by plot.py at 2019-10-02 19:53:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.91 Mbit/s

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

Loss rate: 0.44%

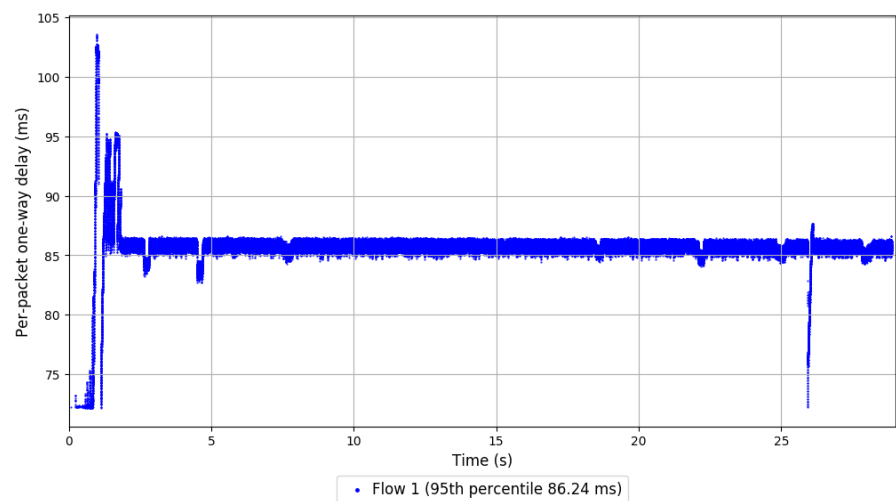
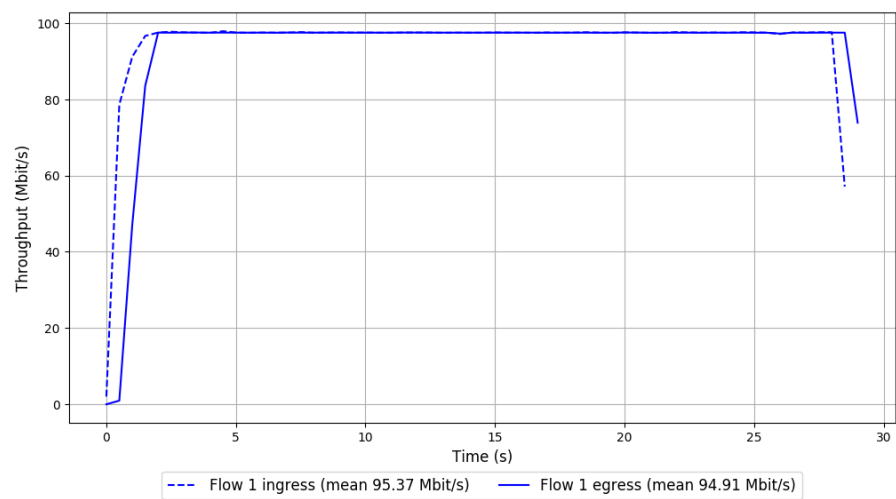
-- Flow 1:

Average throughput: 94.91 Mbit/s

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

Loss rate: 0.44%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-10-02 18:09:03

End at: 2019-10-02 18:09:33

Local clock offset: -6.56 ms

Remote clock offset: 8.148 ms

# Below is generated by plot.py at 2019-10-02 19:53:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.96 Mbit/s

95th percentile per-packet one-way delay: 88.993 ms

Loss rate: 0.28%

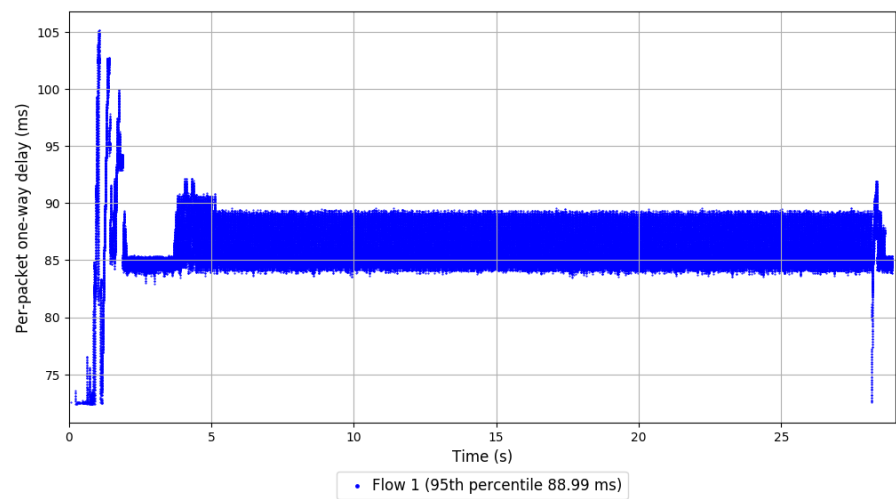
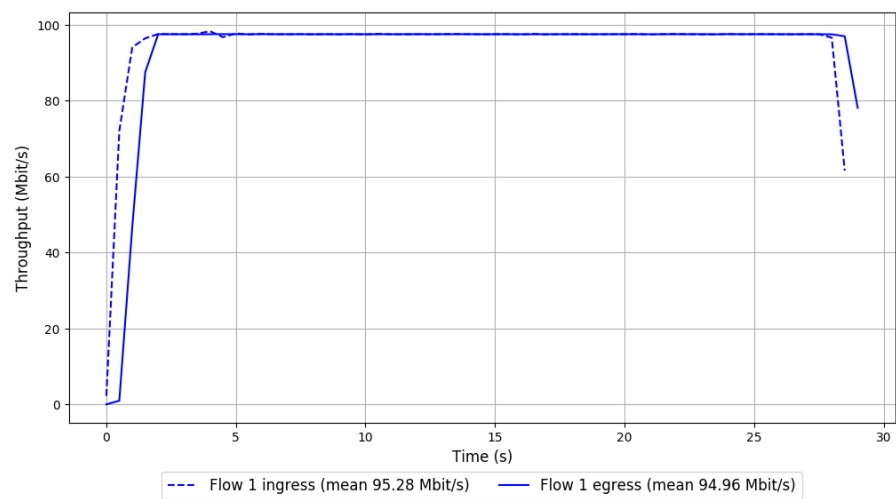
-- Flow 1:

Average throughput: 94.96 Mbit/s

95th percentile per-packet one-way delay: 88.993 ms

Loss rate: 0.28%

Run 2: Report of Indigo-MusesC3 — Data Link



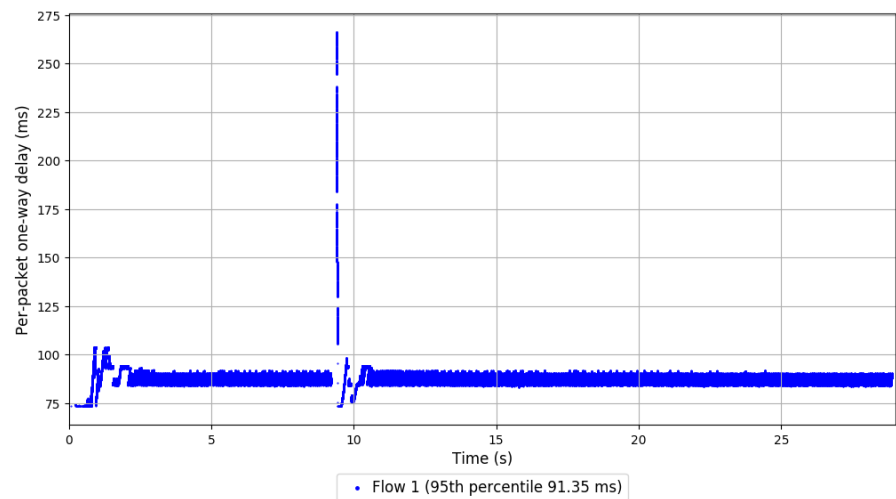
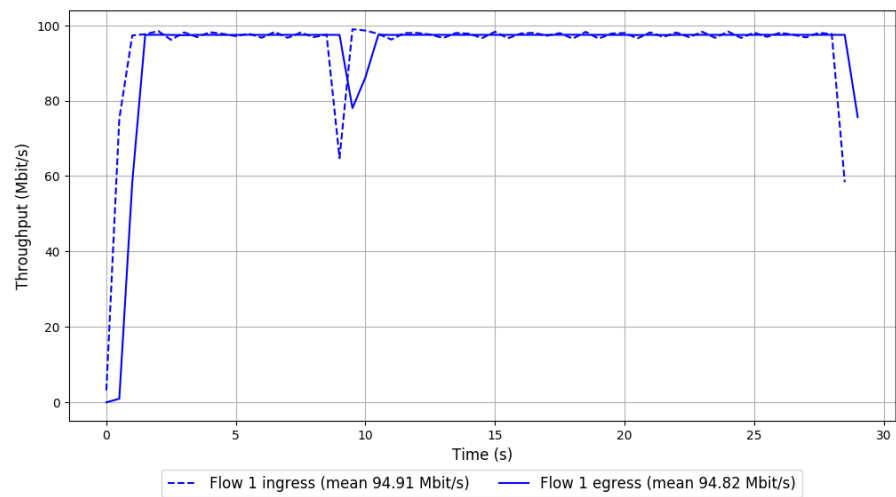


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-10-02 18:37:20  
End at: 2019-10-02 18:37:50  
Local clock offset: -7.436 ms  
Remote clock offset: 11.813 ms

# Below is generated by plot.py at 2019-10-02 19:53:21  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.82 Mbit/s  
95th percentile per-packet one-way delay: 91.348 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 94.82 Mbit/s  
95th percentile per-packet one-way delay: 91.348 ms  
Loss rate: 0.05%

Run 3: Report of Indigo-MusesC3 — Data Link

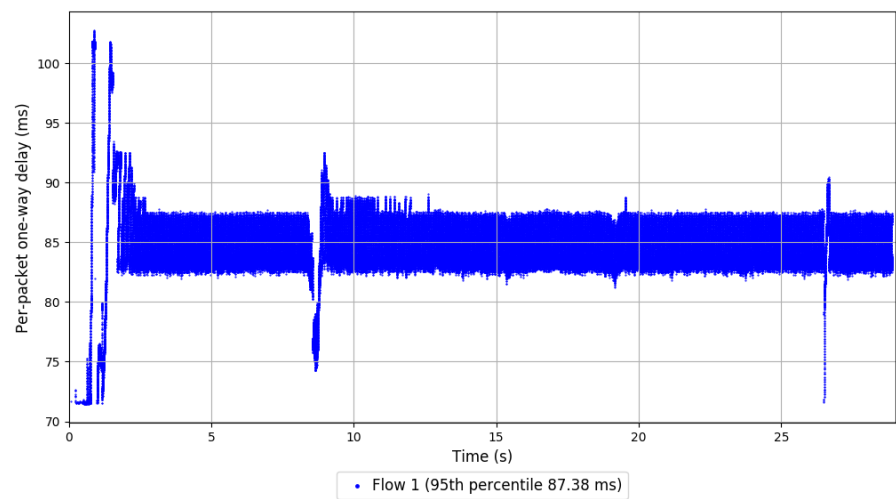
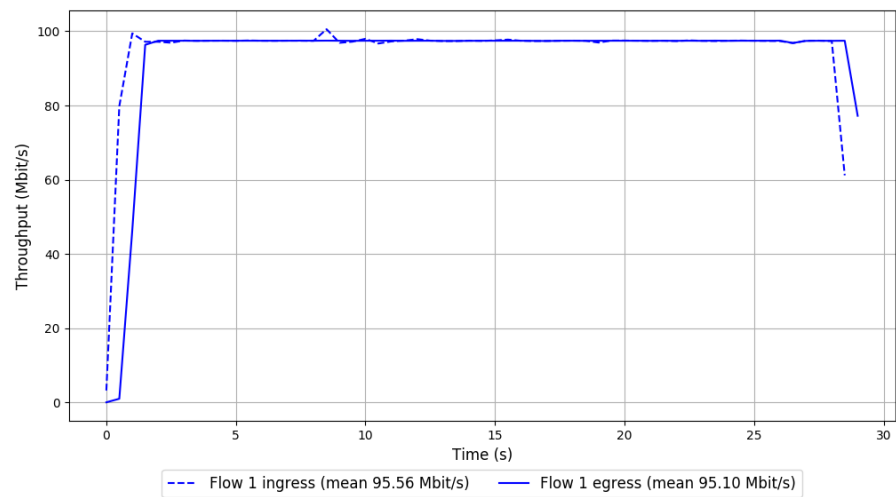


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-10-02 19:05:33  
End at: 2019-10-02 19:06:03  
Local clock offset: -6.609 ms  
Remote clock offset: 13.591 ms

# Below is generated by plot.py at 2019-10-02 19:53:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.10 Mbit/s  
95th percentile per-packet one-way delay: 87.375 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 95.10 Mbit/s  
95th percentile per-packet one-way delay: 87.375 ms  
Loss rate: 0.43%

Run 4: Report of Indigo-MusesC3 — Data Link

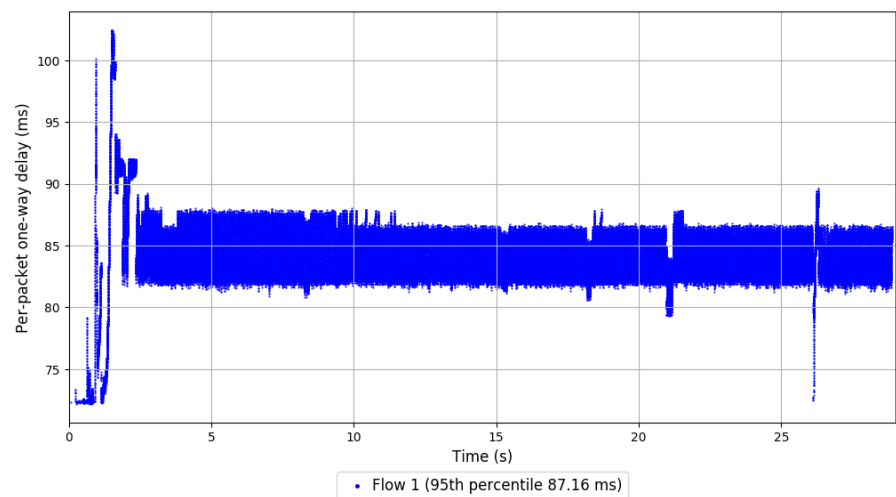
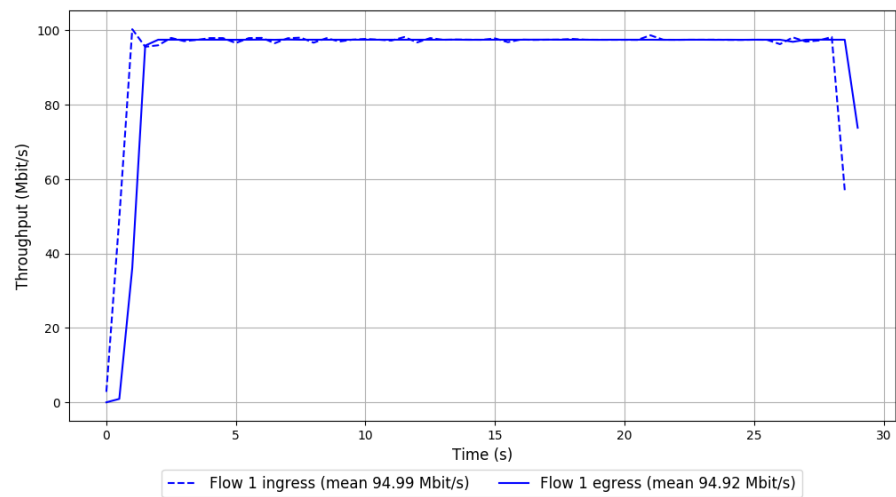


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-10-02 19:33:49  
End at: 2019-10-02 19:34:19  
Local clock offset: -5.773 ms  
Remote clock offset: 16.643 ms

# Below is generated by plot.py at 2019-10-02 19:53:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.92 Mbit/s  
95th percentile per-packet one-way delay: 87.155 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 94.92 Mbit/s  
95th percentile per-packet one-way delay: 87.155 ms  
Loss rate: 0.02%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-10-02 17:26:34

End at: 2019-10-02 17:27:04

Local clock offset: 0.079 ms

Remote clock offset: -3.091 ms

# Below is generated by plot.py at 2019-10-02 19:53:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.14 Mbit/s

95th percentile per-packet one-way delay: 88.912 ms

Loss rate: 0.38%

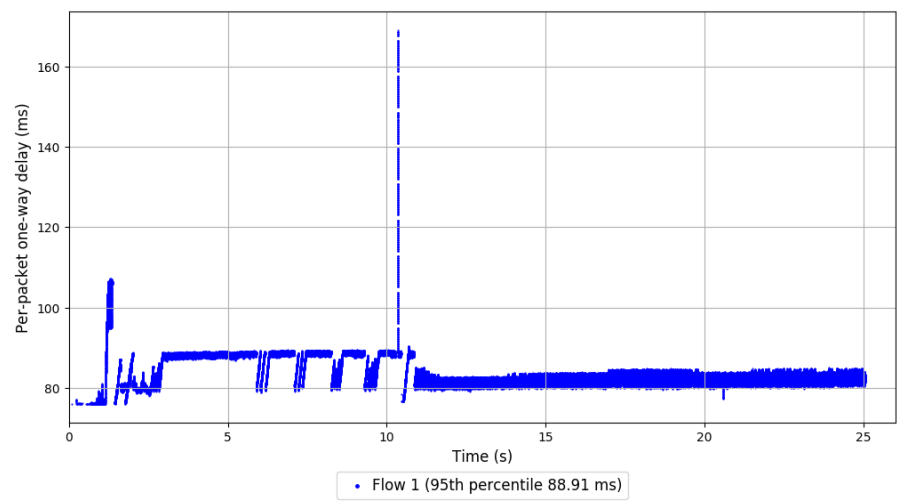
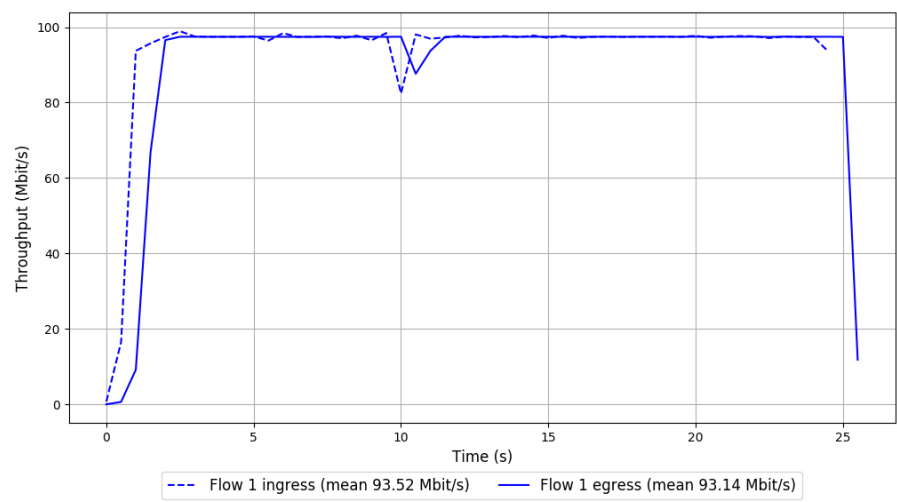
-- Flow 1:

Average throughput: 93.14 Mbit/s

95th percentile per-packet one-way delay: 88.912 ms

Loss rate: 0.38%

Run 1: Report of Indigo-MusesC5 — Data Link





Run 2: Statistics of Indigo-MusesC5

Start at: 2019-10-02 17:54:44

End at: 2019-10-02 17:55:14

Local clock offset: -8.032 ms

Remote clock offset: 5.964 ms

# Below is generated by plot.py at 2019-10-02 19:53:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.42 Mbit/s

95th percentile per-packet one-way delay: 79.471 ms

Loss rate: 0.35%

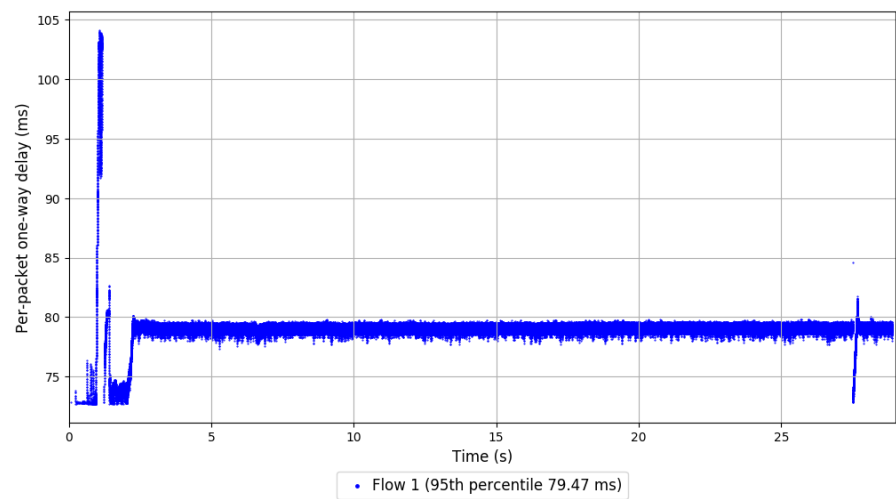
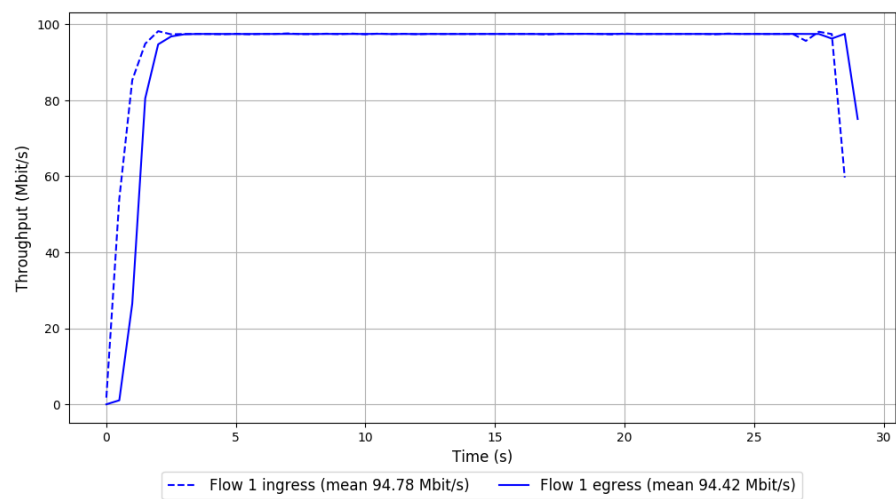
-- Flow 1:

Average throughput: 94.42 Mbit/s

95th percentile per-packet one-way delay: 79.471 ms

Loss rate: 0.35%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-10-02 18:23:02

End at: 2019-10-02 18:23:32

Local clock offset: -7.114 ms

Remote clock offset: 8.13 ms

# Below is generated by plot.py at 2019-10-02 19:54:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.60 Mbit/s

95th percentile per-packet one-way delay: 79.193 ms

Loss rate: 0.00%

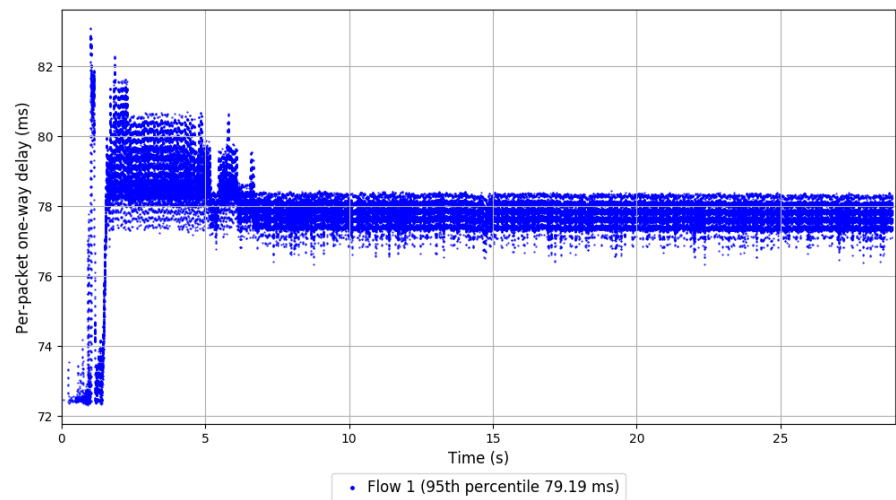
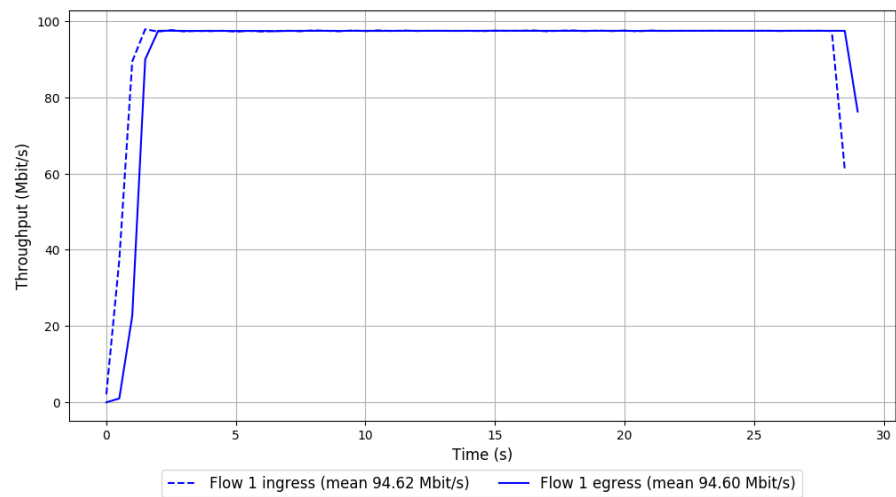
-- Flow 1:

Average throughput: 94.60 Mbit/s

95th percentile per-packet one-way delay: 79.193 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesC5 — Data Link

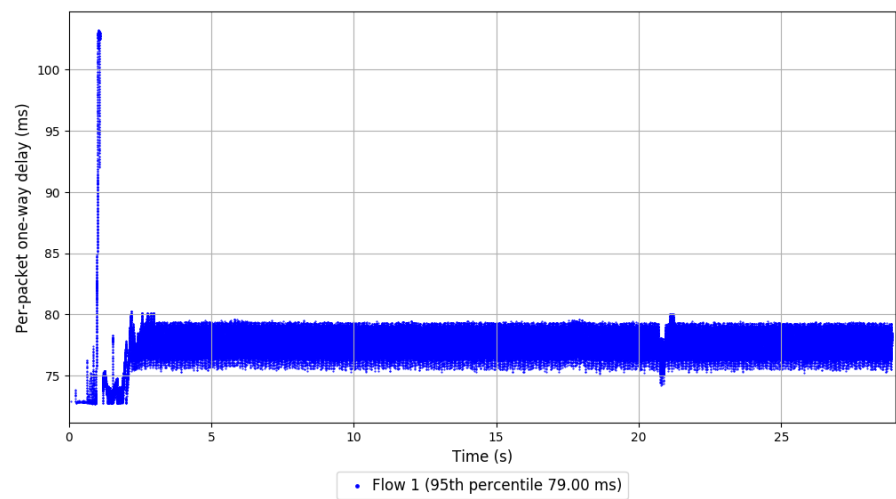
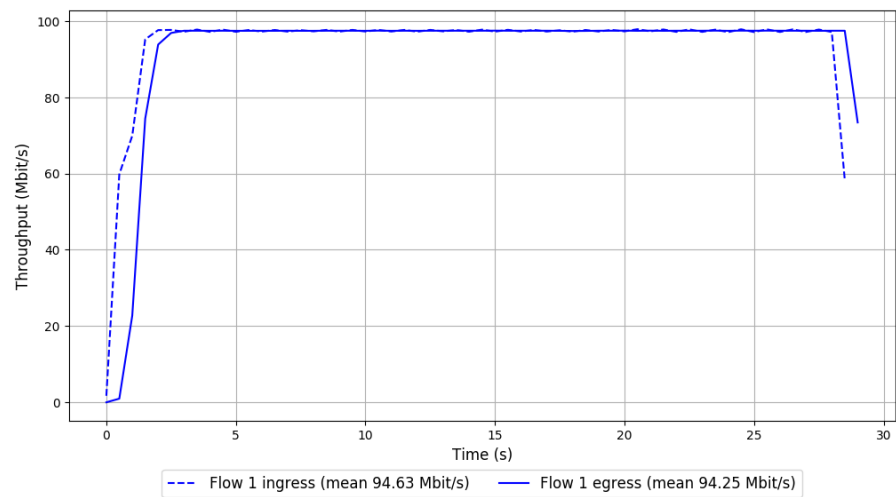


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-10-02 18:51:18  
End at: 2019-10-02 18:51:48  
Local clock offset: -8.241 ms  
Remote clock offset: 13.567 ms

# Below is generated by plot.py at 2019-10-02 19:54:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.25 Mbit/s  
95th percentile per-packet one-way delay: 78.995 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 94.25 Mbit/s  
95th percentile per-packet one-way delay: 78.995 ms  
Loss rate: 0.38%

Run 4: Report of Indigo-MusesC5 — Data Link

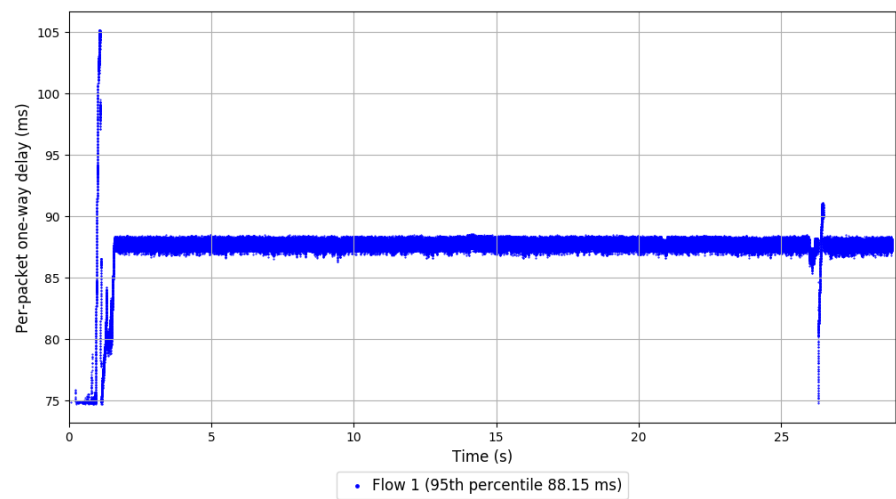
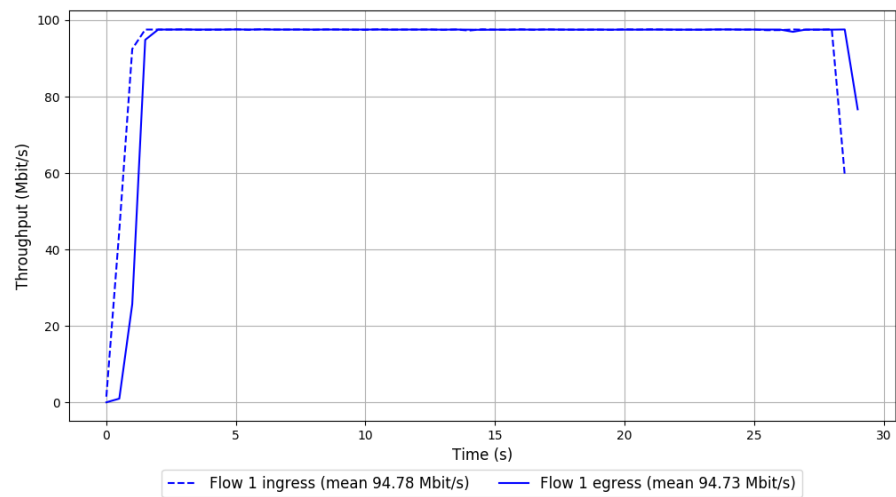


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-10-02 19:19:33  
End at: 2019-10-02 19:20:03  
Local clock offset: -6.259 ms  
Remote clock offset: 16.503 ms

# Below is generated by plot.py at 2019-10-02 19:54:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.73 Mbit/s  
95th percentile per-packet one-way delay: 88.151 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 94.73 Mbit/s  
95th percentile per-packet one-way delay: 88.151 ms  
Loss rate: 0.01%

Run 5: Report of Indigo-MusesC5 — Data Link





Run 1: Statistics of Indigo-MusesD

Start at: 2019-10-02 17:30:08

End at: 2019-10-02 17:30:38

Local clock offset: 1.148 ms

Remote clock offset: -2.177 ms

# Below is generated by plot.py at 2019-10-02 19:54:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.64 Mbit/s

95th percentile per-packet one-way delay: 79.118 ms

Loss rate: 0.00%

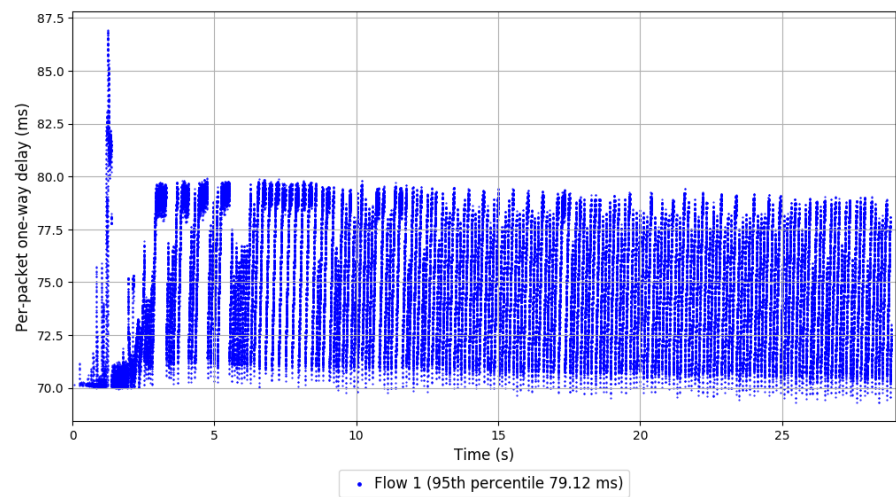
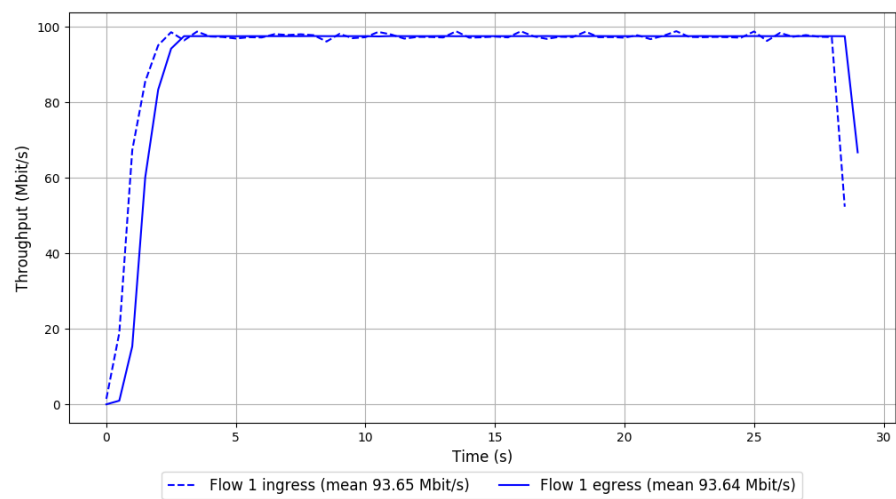
-- Flow 1:

Average throughput: 93.64 Mbit/s

95th percentile per-packet one-way delay: 79.118 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-10-02 17:58:19

End at: 2019-10-02 17:58:49

Local clock offset: -7.301 ms

Remote clock offset: 4.954 ms

# Below is generated by plot.py at 2019-10-02 19:54:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.05 Mbit/s

95th percentile per-packet one-way delay: 81.383 ms

Loss rate: 0.18%

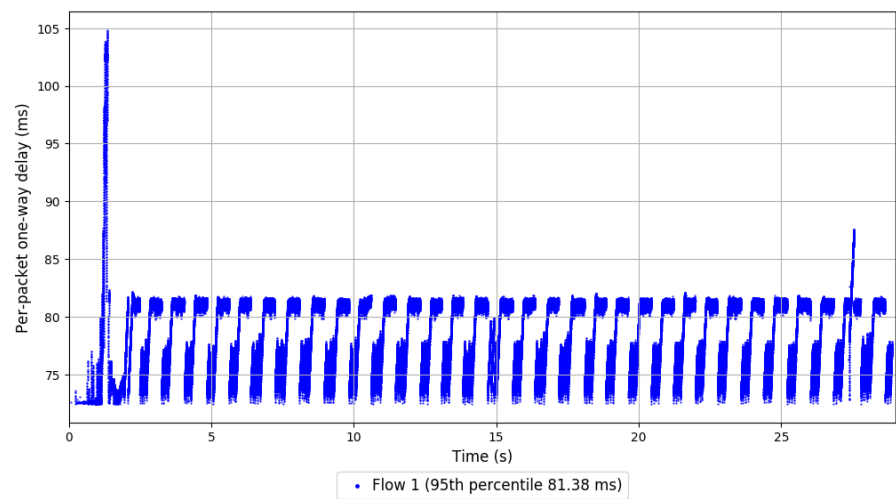
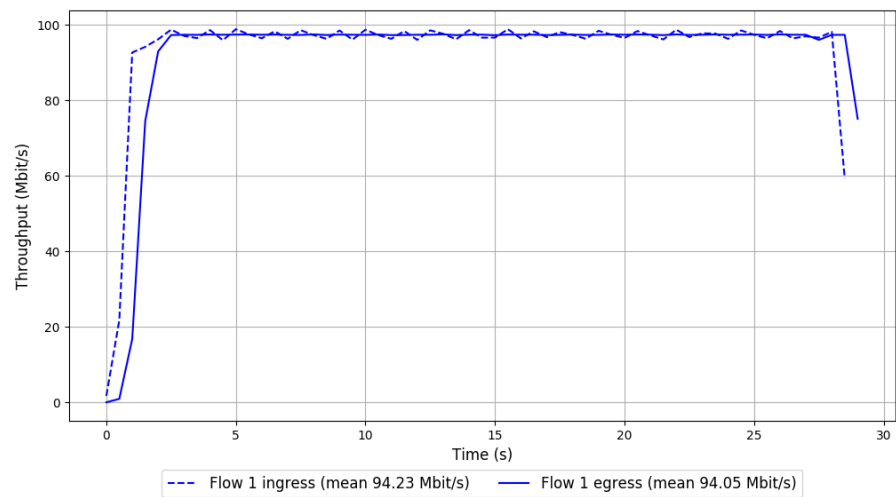
-- Flow 1:

Average throughput: 94.05 Mbit/s

95th percentile per-packet one-way delay: 81.383 ms

Loss rate: 0.18%

Run 2: Report of Indigo-MusesD — Data Link

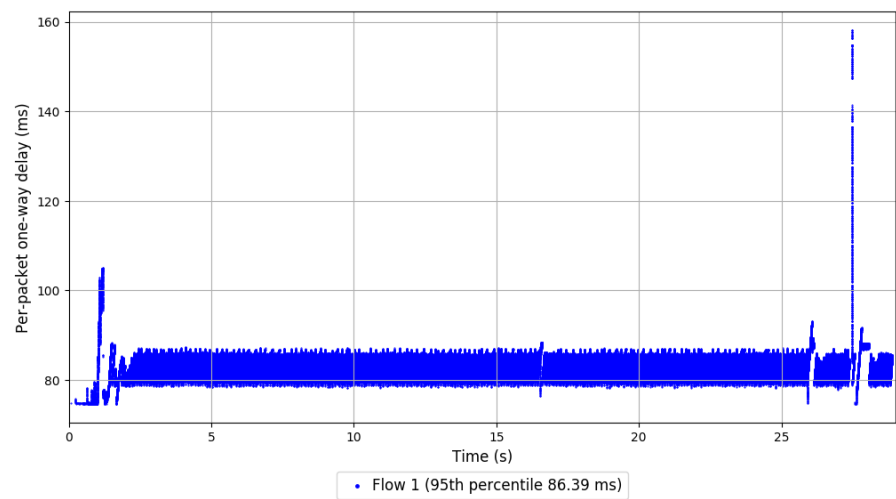
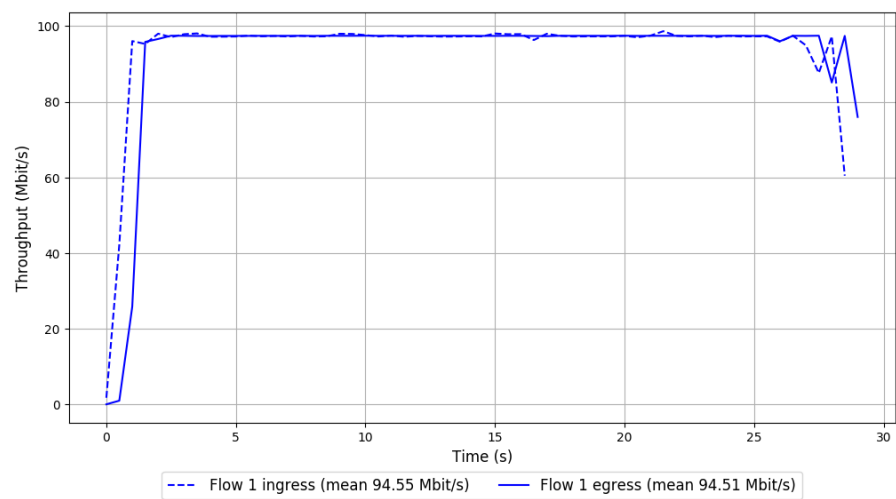


Run 3: Statistics of Indigo-MusesD

Start at: 2019-10-02 18:26:37  
End at: 2019-10-02 18:27:07  
Local clock offset: -7.263 ms  
Remote clock offset: 10.123 ms

# Below is generated by plot.py at 2019-10-02 19:54:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.51 Mbit/s  
95th percentile per-packet one-way delay: 86.392 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 94.51 Mbit/s  
95th percentile per-packet one-way delay: 86.392 ms  
Loss rate: 0.01%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-10-02 18:54:53

End at: 2019-10-02 18:55:23

Local clock offset: -8.426 ms

Remote clock offset: 13.902 ms

# Below is generated by plot.py at 2019-10-02 19:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.06 Mbit/s

95th percentile per-packet one-way delay: 83.192 ms

Loss rate: 0.09%

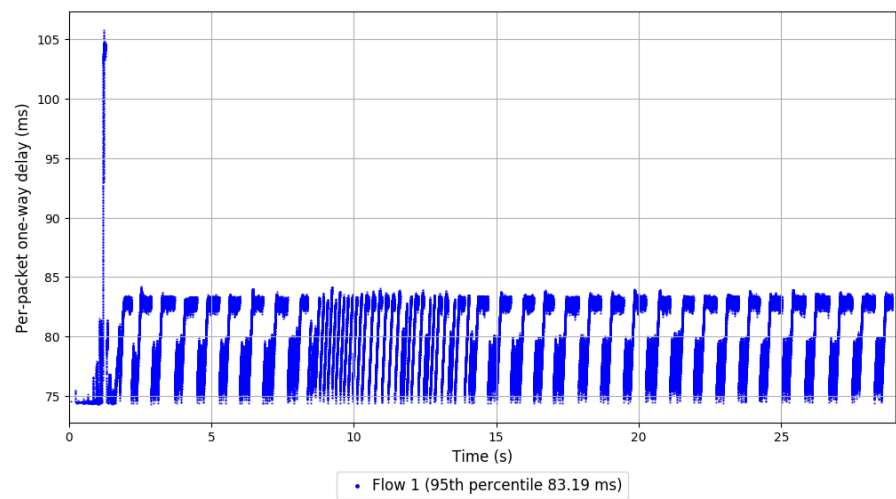
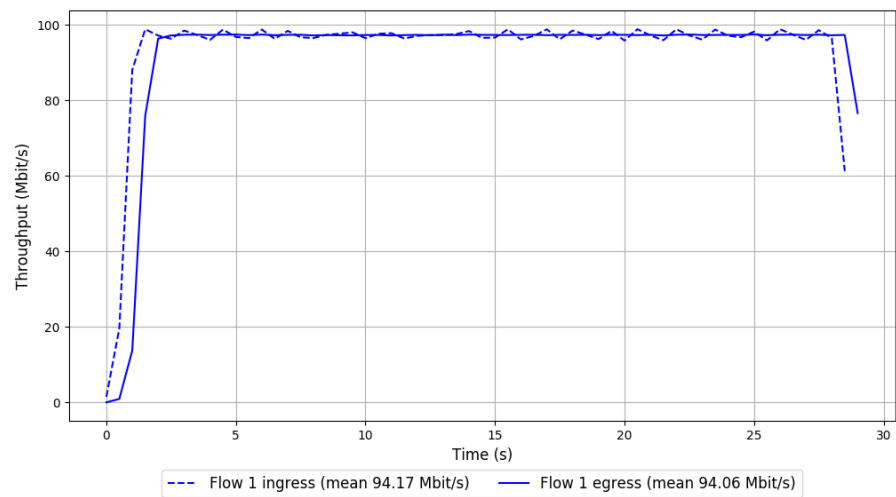
-- Flow 1:

Average throughput: 94.06 Mbit/s

95th percentile per-packet one-way delay: 83.192 ms

Loss rate: 0.09%

Run 4: Report of Indigo-MusesD — Data Link



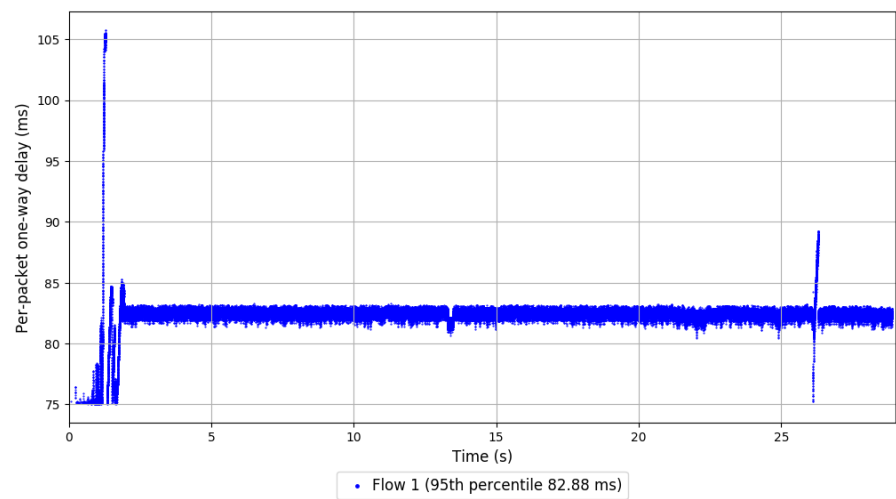
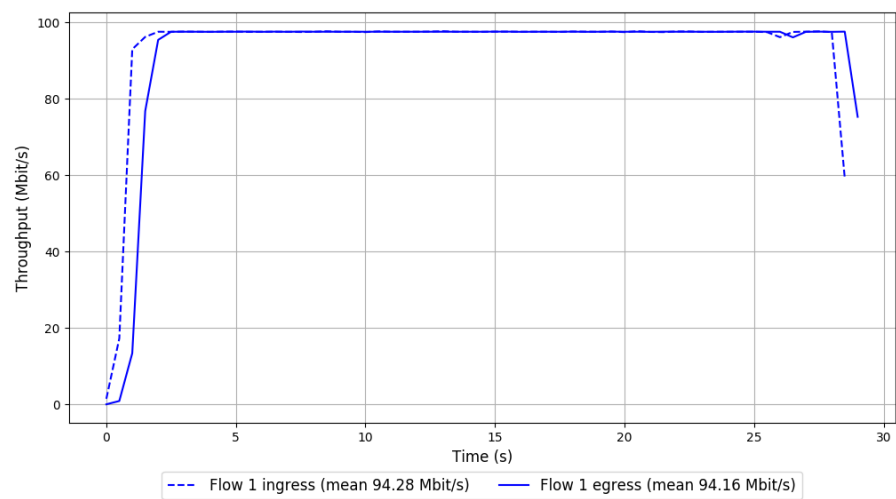


Run 5: Statistics of Indigo-MusesD

Start at: 2019-10-02 19:23:09  
End at: 2019-10-02 19:23:39  
Local clock offset: -6.305 ms  
Remote clock offset: 17.153 ms

# Below is generated by plot.py at 2019-10-02 19:54:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.16 Mbit/s  
95th percentile per-packet one-way delay: 82.879 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 94.16 Mbit/s  
95th percentile per-packet one-way delay: 82.879 ms  
Loss rate: 0.10%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-10-02 17:45:23

End at: 2019-10-02 17:45:53

Local clock offset: -7.481 ms

Remote clock offset: 4.699 ms

# Below is generated by plot.py at 2019-10-02 19:55:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.75 Mbit/s

95th percentile per-packet one-way delay: 87.990 ms

Loss rate: 2.97%

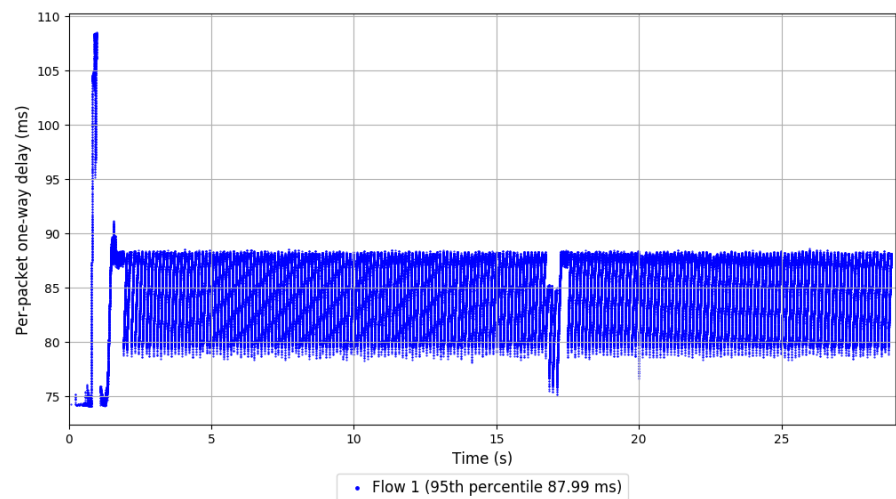
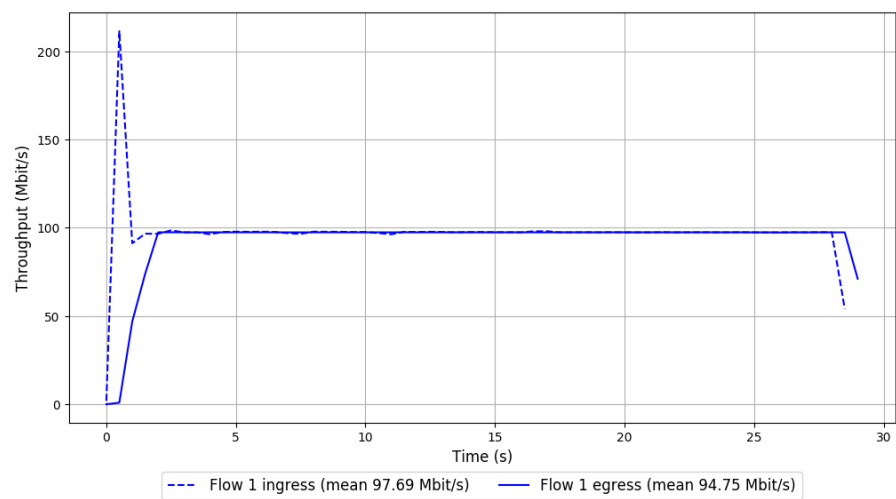
-- Flow 1:

Average throughput: 94.75 Mbit/s

95th percentile per-packet one-way delay: 87.990 ms

Loss rate: 2.97%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-10-02 18:13:38

End at: 2019-10-02 18:14:08

Local clock offset: -6.645 ms

Remote clock offset: 8.438 ms

# Below is generated by plot.py at 2019-10-02 19:55:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.00 Mbit/s

95th percentile per-packet one-way delay: 88.192 ms

Loss rate: 0.45%

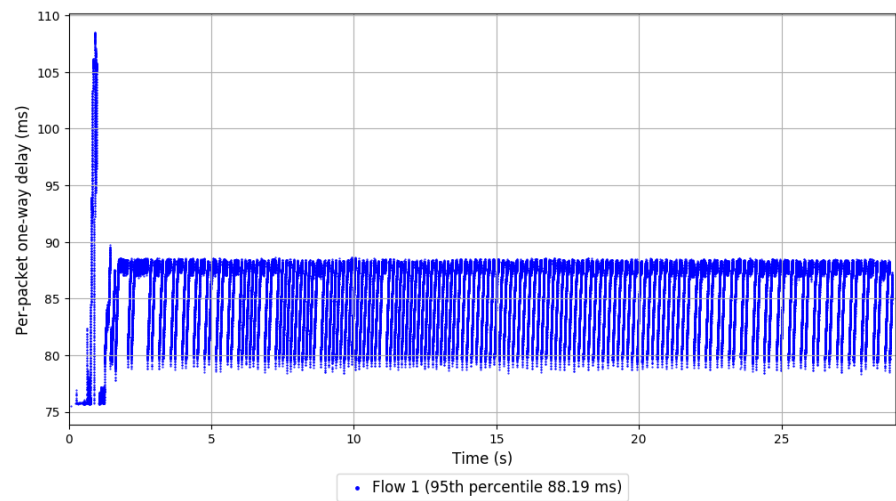
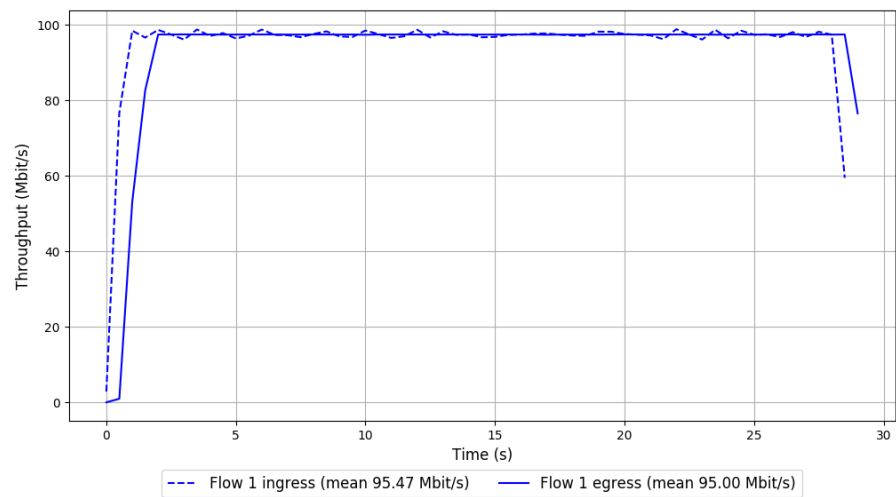
-- Flow 1:

Average throughput: 95.00 Mbit/s

95th percentile per-packet one-way delay: 88.192 ms

Loss rate: 0.45%

Run 2: Report of Indigo-MusesT — Data Link

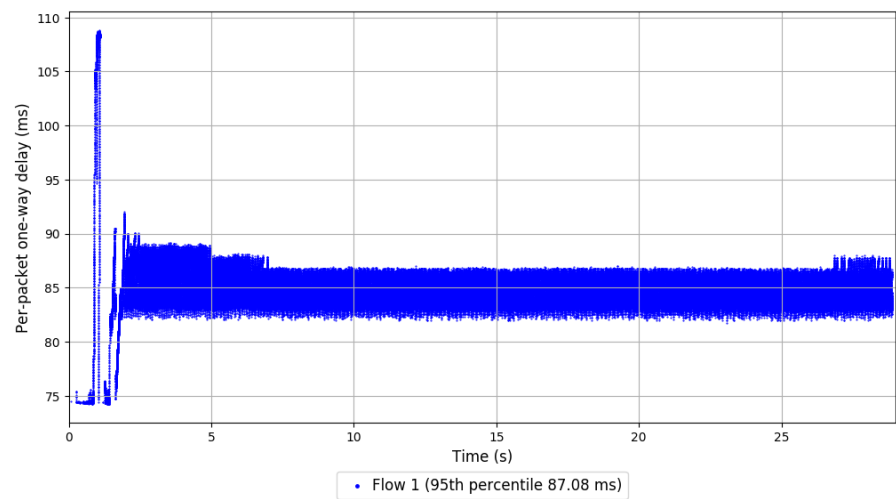
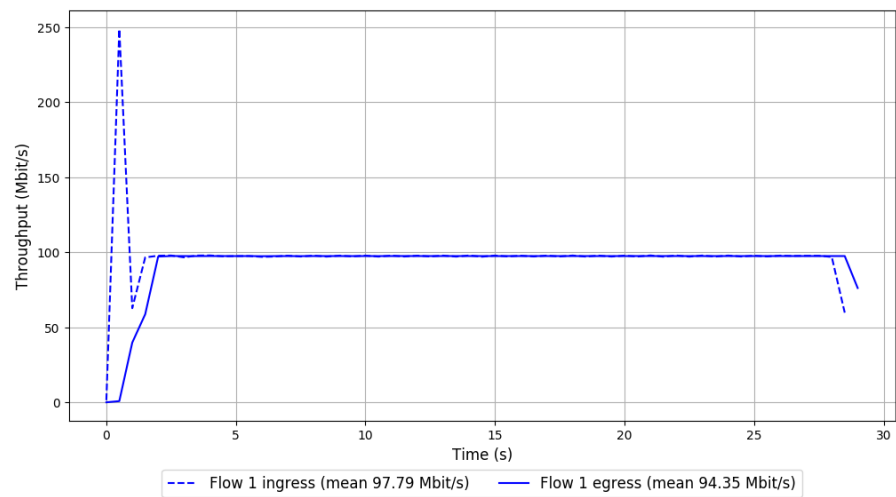


Run 3: Statistics of Indigo-MusesT

Start at: 2019-10-02 18:41:55  
End at: 2019-10-02 18:42:25  
Local clock offset: -7.705 ms  
Remote clock offset: 10.703 ms

# Below is generated by plot.py at 2019-10-02 19:55:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.35 Mbit/s  
95th percentile per-packet one-way delay: 87.075 ms  
Loss rate: 3.48%  
-- Flow 1:  
Average throughput: 94.35 Mbit/s  
95th percentile per-packet one-way delay: 87.075 ms  
Loss rate: 3.48%

Run 3: Report of Indigo-MusesT — Data Link



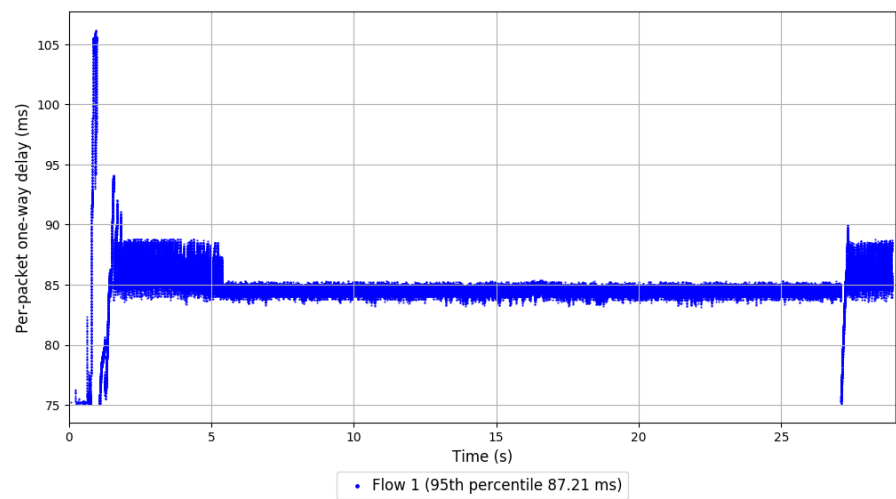
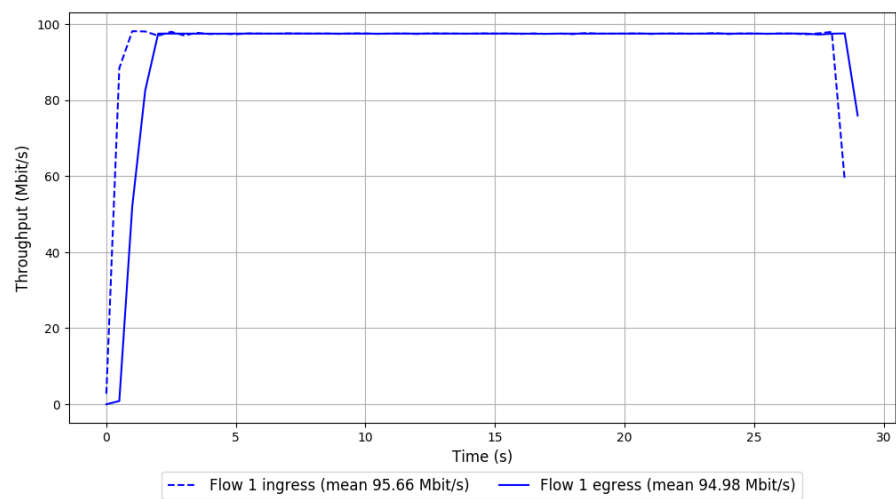


Run 4: Statistics of Indigo-MusesT

Start at: 2019-10-02 19:10:09  
End at: 2019-10-02 19:10:39  
Local clock offset: -6.419 ms  
Remote clock offset: 15.689 ms

# Below is generated by plot.py at 2019-10-02 19:55:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.98 Mbit/s  
95th percentile per-packet one-way delay: 87.211 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 94.98 Mbit/s  
95th percentile per-packet one-way delay: 87.211 ms  
Loss rate: 0.68%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-10-02 19:38:24

End at: 2019-10-02 19:38:54

Local clock offset: -5.687 ms

Remote clock offset: 18.704 ms

# Below is generated by plot.py at 2019-10-02 19:55:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.91 Mbit/s

95th percentile per-packet one-way delay: 84.386 ms

Loss rate: 1.70%

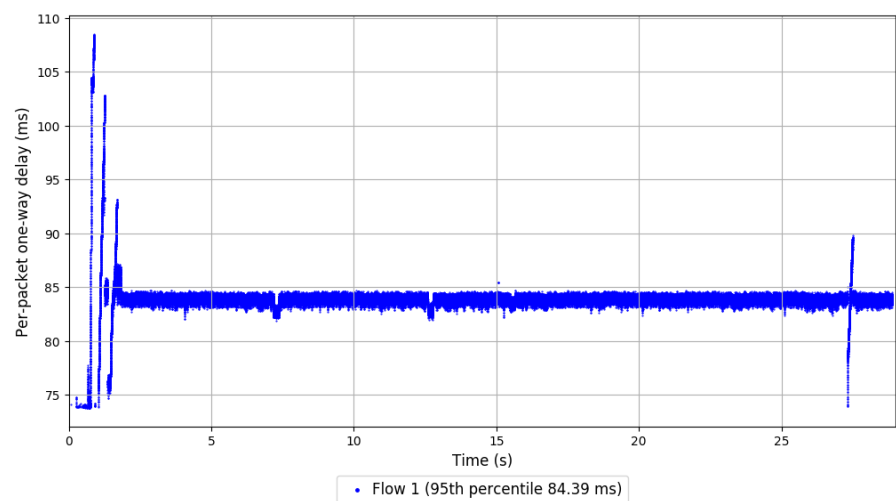
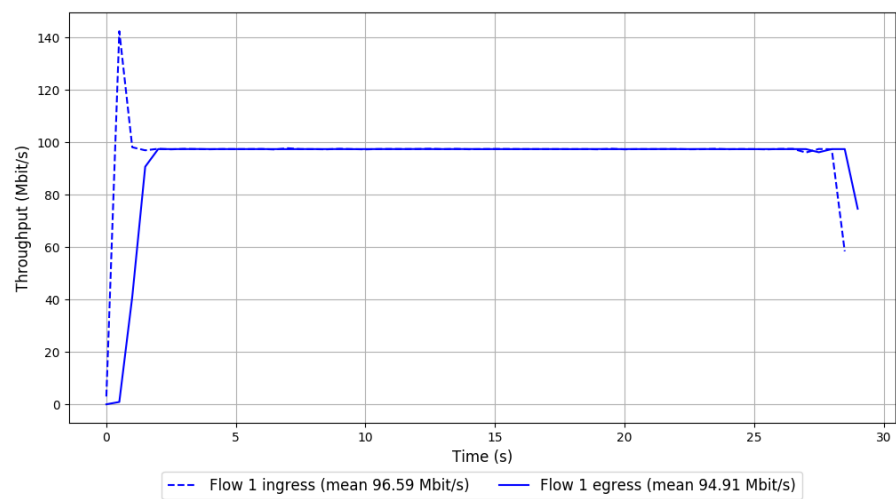
-- Flow 1:

Average throughput: 94.91 Mbit/s

95th percentile per-packet one-way delay: 84.386 ms

Loss rate: 1.70%

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-10-02 17:53:35

End at: 2019-10-02 17:54:05

Local clock offset: -7.913 ms

Remote clock offset: 5.957 ms

# Below is generated by plot.py at 2019-10-02 19:55:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.32 Mbit/s

95th percentile per-packet one-way delay: 94.723 ms

Loss rate: 0.00%

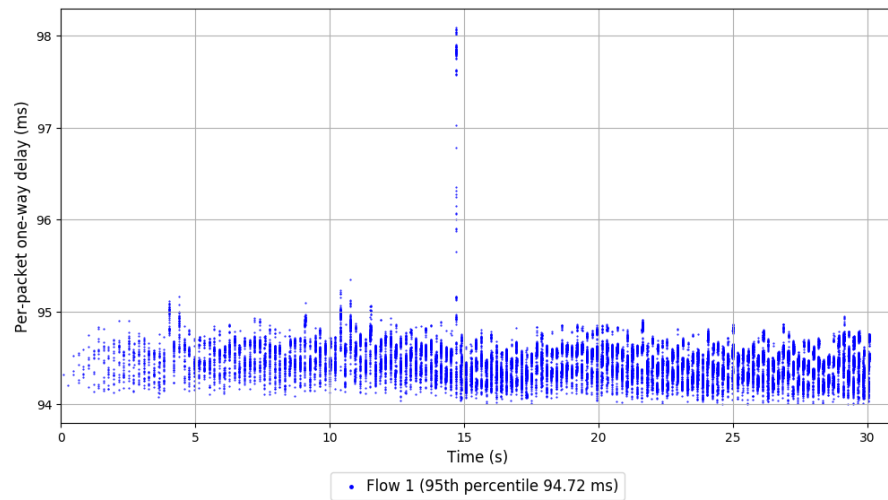
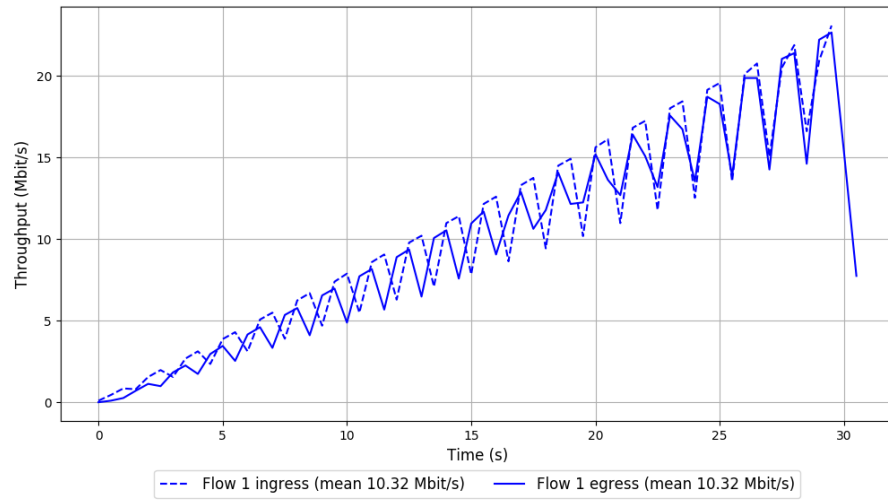
-- Flow 1:

Average throughput: 10.32 Mbit/s

95th percentile per-packet one-way delay: 94.723 ms

Loss rate: 0.00%

# Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-10-02 18:21:54

End at: 2019-10-02 18:22:24

Local clock offset: -7.087 ms

Remote clock offset: 7.974 ms

# Below is generated by plot.py at 2019-10-02 19:55:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.01 Mbit/s

95th percentile per-packet one-way delay: 73.033 ms

Loss rate: 0.00%

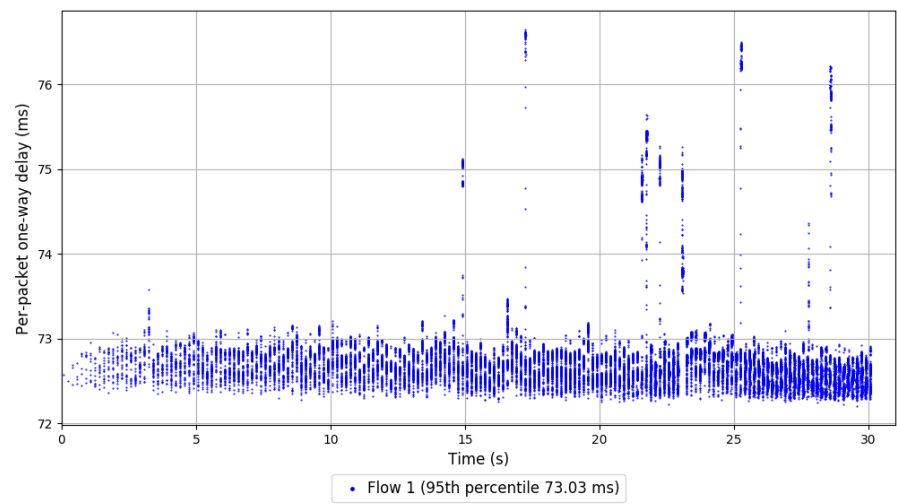
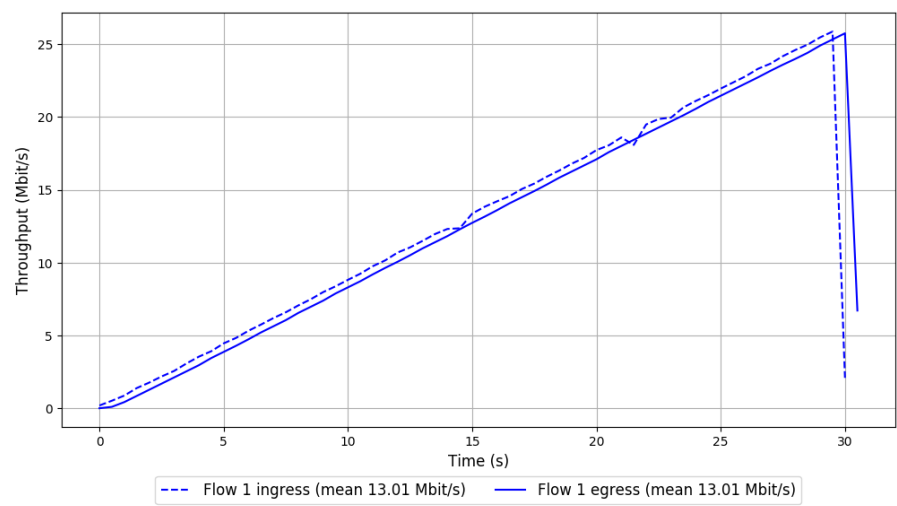
-- Flow 1:

Average throughput: 13.01 Mbit/s

95th percentile per-packet one-way delay: 73.033 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link





Run 3: Statistics of LEDBAT

Start at: 2019-10-02 18:50:10

End at: 2019-10-02 18:50:40

Local clock offset: -8.111 ms

Remote clock offset: 13.33 ms

# Below is generated by plot.py at 2019-10-02 19:55:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.20 Mbit/s

95th percentile per-packet one-way delay: 74.619 ms

Loss rate: 0.00%

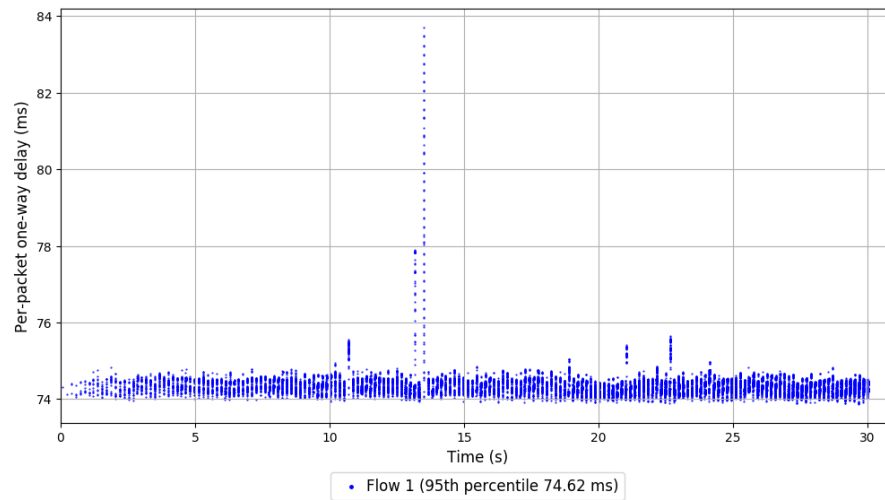
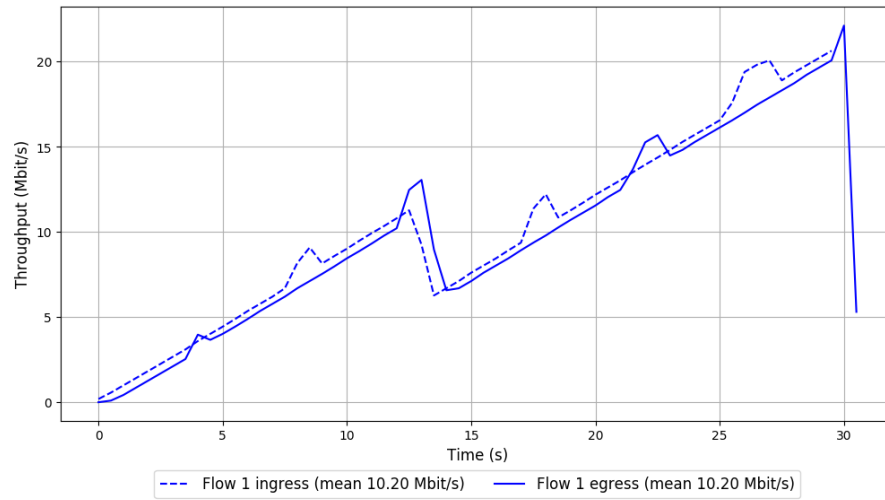
-- Flow 1:

Average throughput: 10.20 Mbit/s

95th percentile per-packet one-way delay: 74.619 ms

Loss rate: 0.00%

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

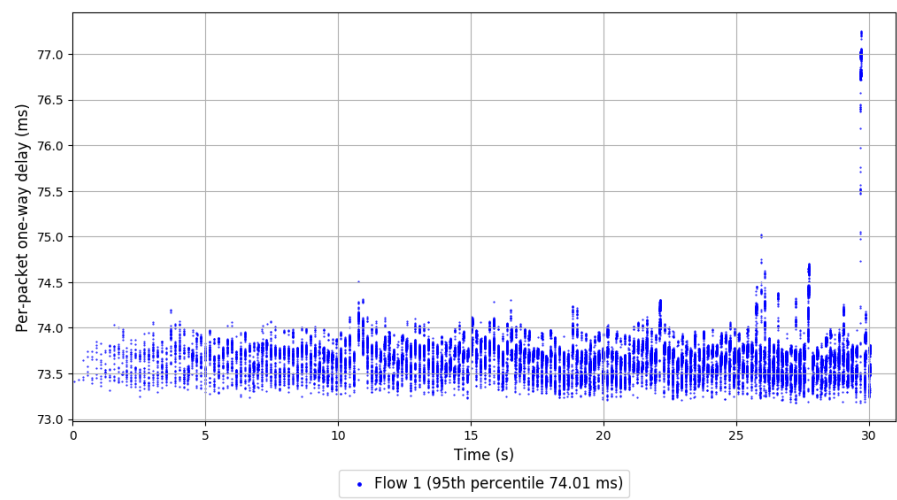
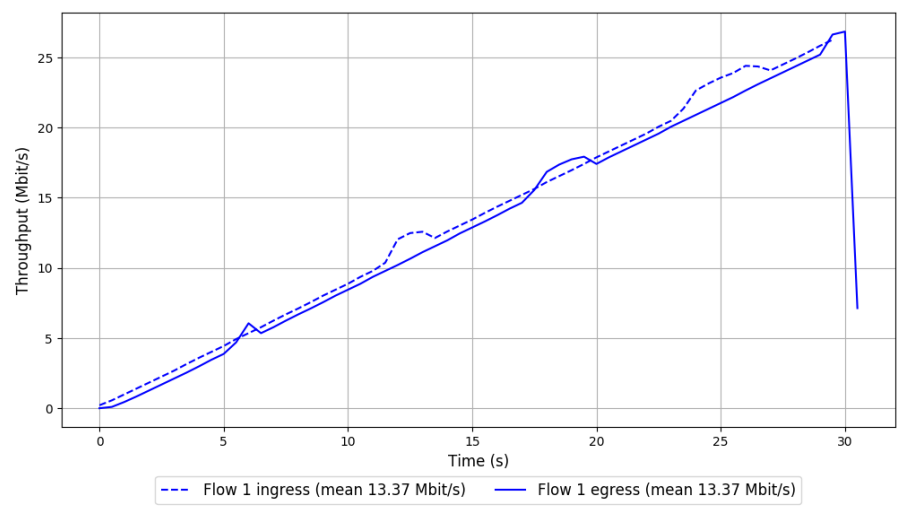


Run 4: Statistics of LEDBAT

Start at: 2019-10-02 19:18:25  
End at: 2019-10-02 19:18:55  
Local clock offset: -6.248 ms  
Remote clock offset: 14.894 ms

# Below is generated by plot.py at 2019-10-02 19:55:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 13.37 Mbit/s  
95th percentile per-packet one-way delay: 74.009 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 13.37 Mbit/s  
95th percentile per-packet one-way delay: 74.009 ms  
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

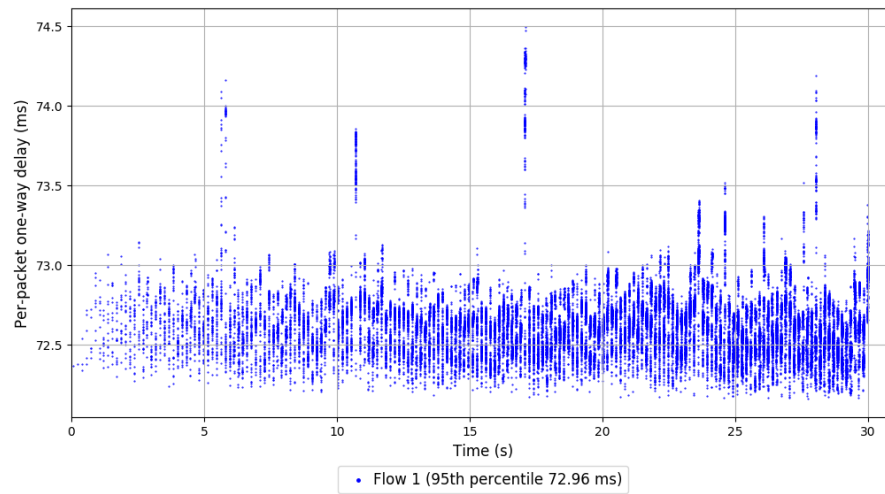
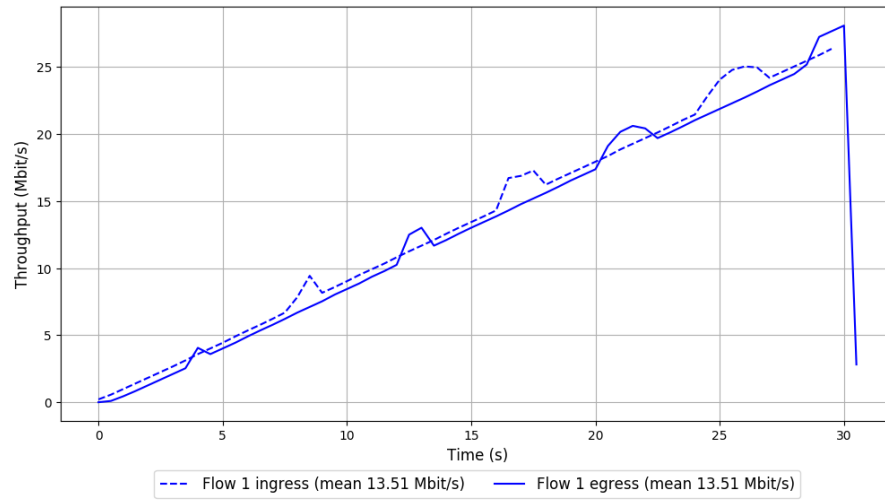


Run 5: Statistics of LEDBAT

Start at: 2019-10-02 19:46:37  
End at: 2019-10-02 19:47:07  
Local clock offset: -5.648 ms  
Remote clock offset: 18.077 ms

# Below is generated by plot.py at 2019-10-02 19:55:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 13.51 Mbit/s  
95th percentile per-packet one-way delay: 72.960 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 13.51 Mbit/s  
95th percentile per-packet one-way delay: 72.960 ms  
Loss rate: 0.00%

# Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-10-02 17:33:44

End at: 2019-10-02 17:34:14

Local clock offset: -2.133 ms

Remote clock offset: 1.275 ms

# Below is generated by plot.py at 2019-10-02 19:55:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.99 Mbit/s

95th percentile per-packet one-way delay: 90.706 ms

Loss rate: 0.35%

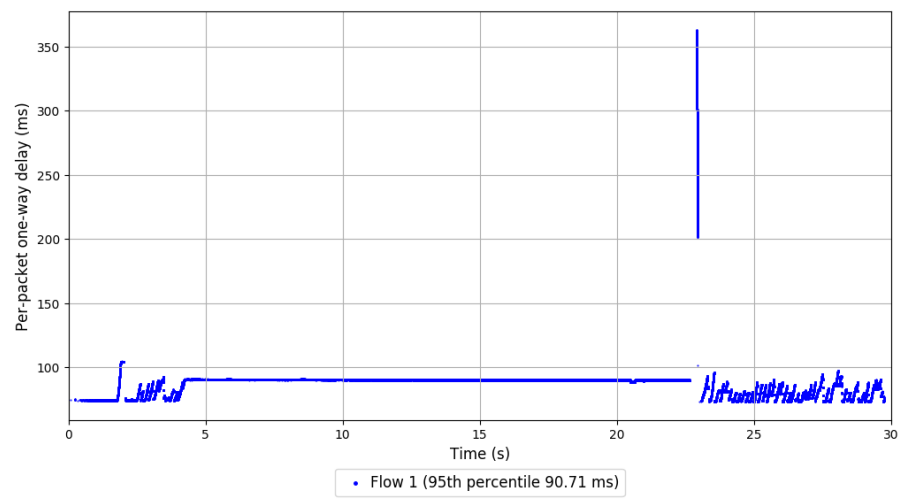
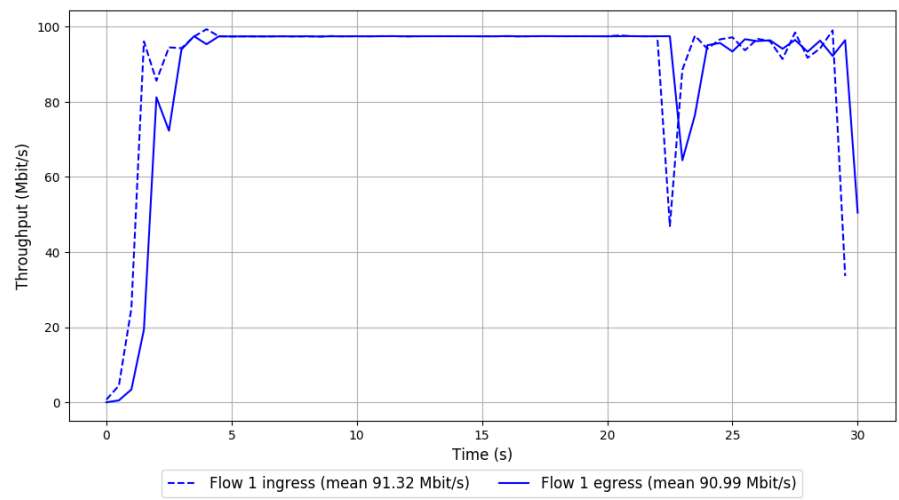
-- Flow 1:

Average throughput: 90.99 Mbit/s

95th percentile per-packet one-way delay: 90.706 ms

Loss rate: 0.35%

Run 1: Report of Muses\_DecisionTree — Data Link





Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-10-02 18:01:55

End at: 2019-10-02 18:02:25

Local clock offset: -6.811 ms

Remote clock offset: 5.4 ms

# Below is generated by plot.py at 2019-10-02 19:55:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.89 Mbit/s

95th percentile per-packet one-way delay: 95.246 ms

Loss rate: 0.36%

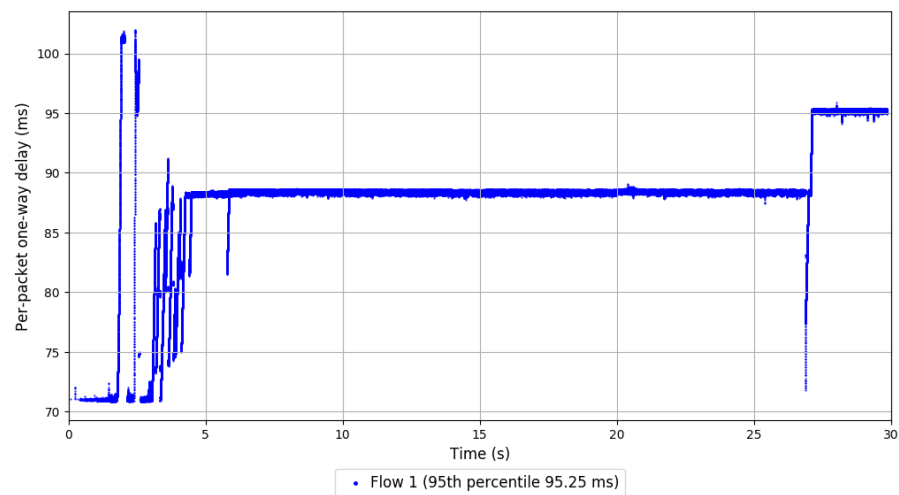
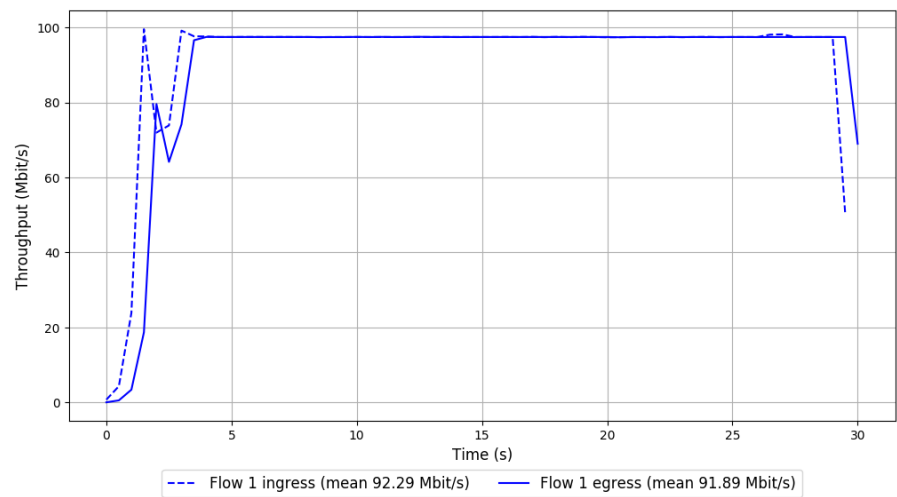
-- Flow 1:

Average throughput: 91.89 Mbit/s

95th percentile per-packet one-way delay: 95.246 ms

Loss rate: 0.36%

Run 2: Report of Muses\_DecisionTree — Data Link



Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-10-02 18:30:13

End at: 2019-10-02 18:30:43

Local clock offset: -7.217 ms

Remote clock offset: 8.748 ms

# Below is generated by plot.py at 2019-10-02 19:56:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.29 Mbit/s

95th percentile per-packet one-way delay: 90.683 ms

Loss rate: 0.37%

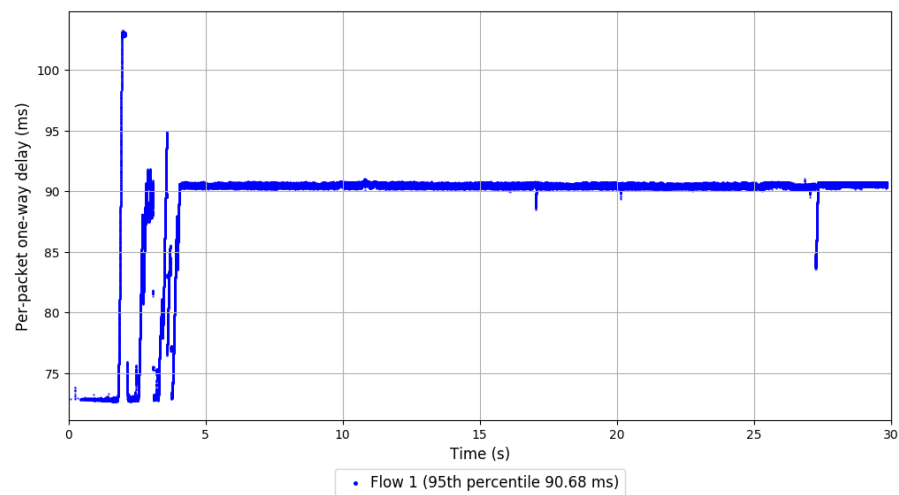
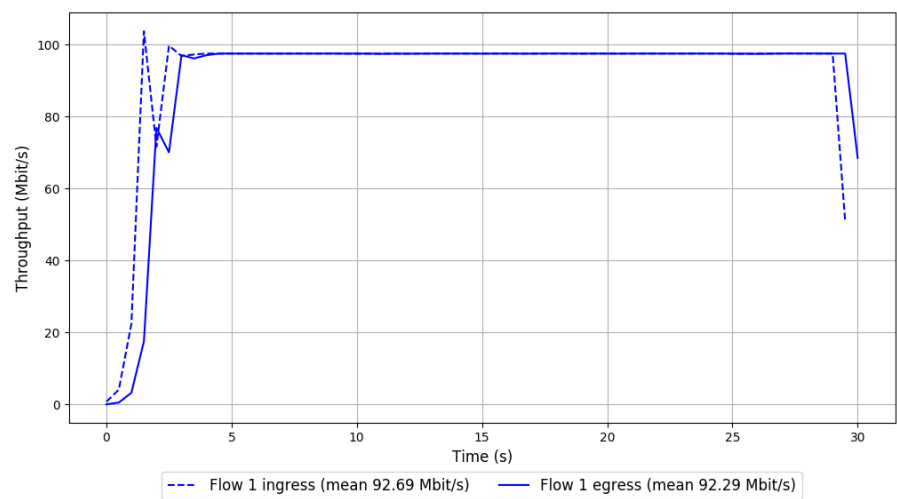
-- Flow 1:

Average throughput: 92.29 Mbit/s

95th percentile per-packet one-way delay: 90.683 ms

Loss rate: 0.37%

Run 3: Report of Muses\_DecisionTree — Data Link

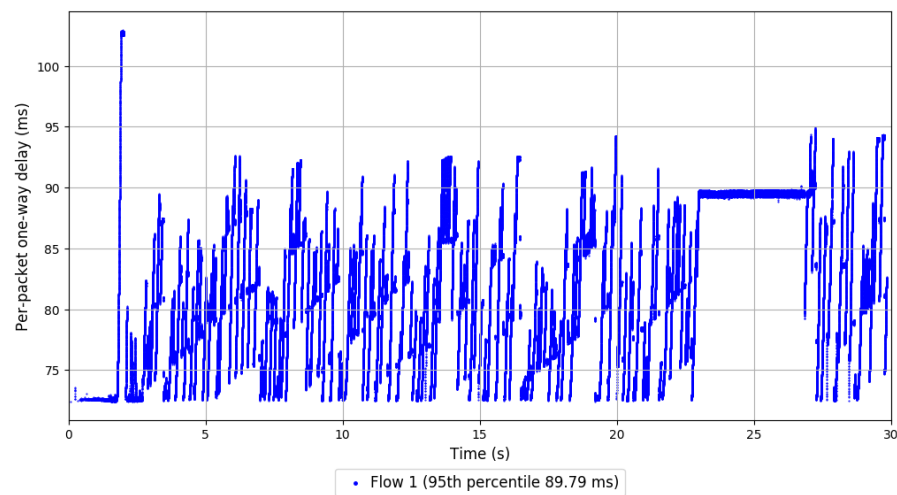
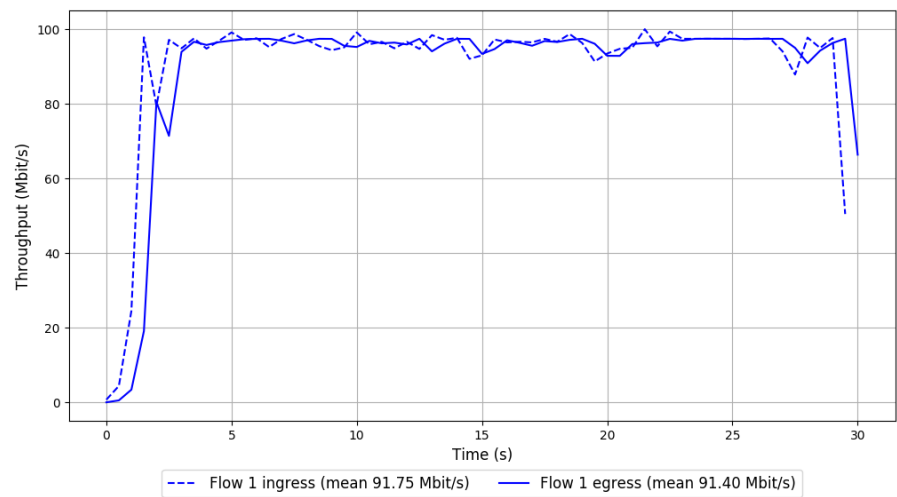


Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-10-02 18:58:29  
End at: 2019-10-02 18:58:59  
Local clock offset: -7.562 ms  
Remote clock offset: 14.342 ms

# Below is generated by plot.py at 2019-10-02 19:56:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.40 Mbit/s  
95th percentile per-packet one-way delay: 89.792 ms  
Loss rate: 0.35%  
-- Flow 1:  
Average throughput: 91.40 Mbit/s  
95th percentile per-packet one-way delay: 89.792 ms  
Loss rate: 0.35%

Run 4: Report of Muses\_DecisionTree — Data Link

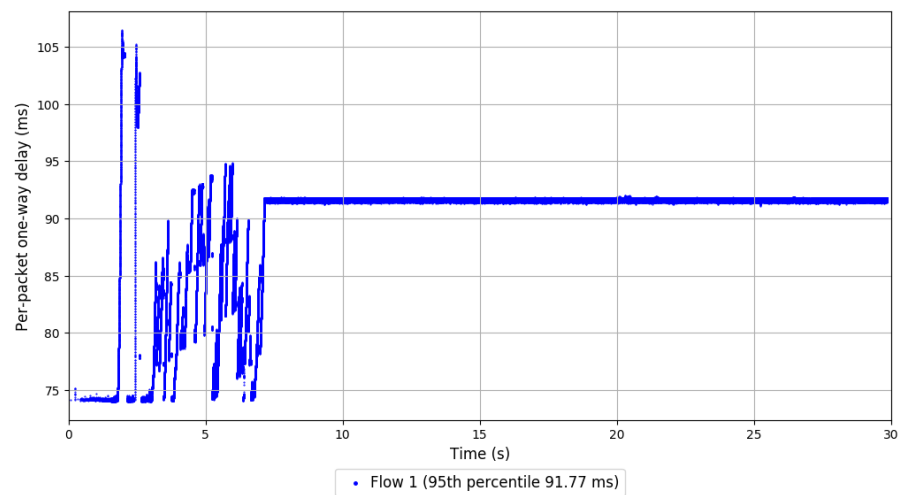
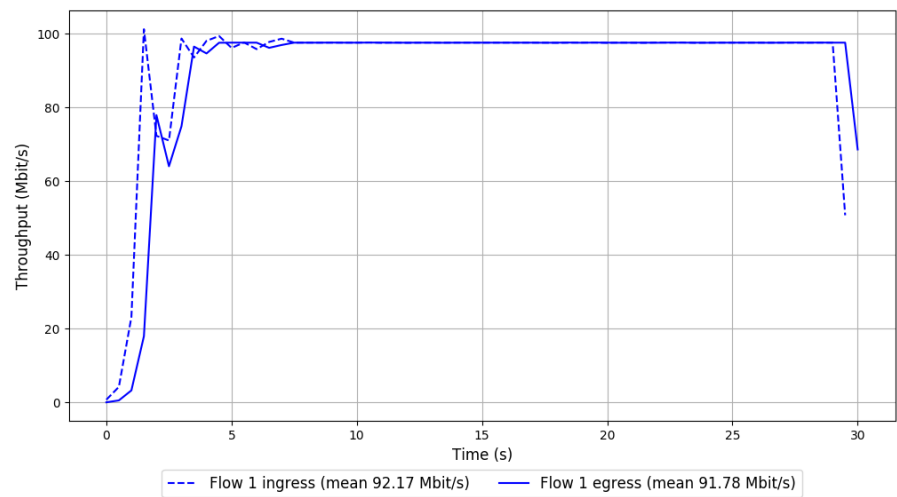


Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-10-02 19:26:45  
End at: 2019-10-02 19:27:15  
Local clock offset: -6.136 ms  
Remote clock offset: 17.593 ms

# Below is generated by plot.py at 2019-10-02 19:56:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.78 Mbit/s  
95th percentile per-packet one-way delay: 91.771 ms  
Loss rate: 0.36%  
-- Flow 1:  
Average throughput: 91.78 Mbit/s  
95th percentile per-packet one-way delay: 91.771 ms  
Loss rate: 0.36%

Run 5: Report of Muses\_DecisionTree — Data Link





Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-02 17:51:11

End at: 2019-10-02 17:51:41

Local clock offset: -7.71 ms

Remote clock offset: 5.596 ms

# Below is generated by plot.py at 2019-10-02 19:56:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.39 Mbit/s

95th percentile per-packet one-way delay: 107.845 ms

Loss rate: 51.07%

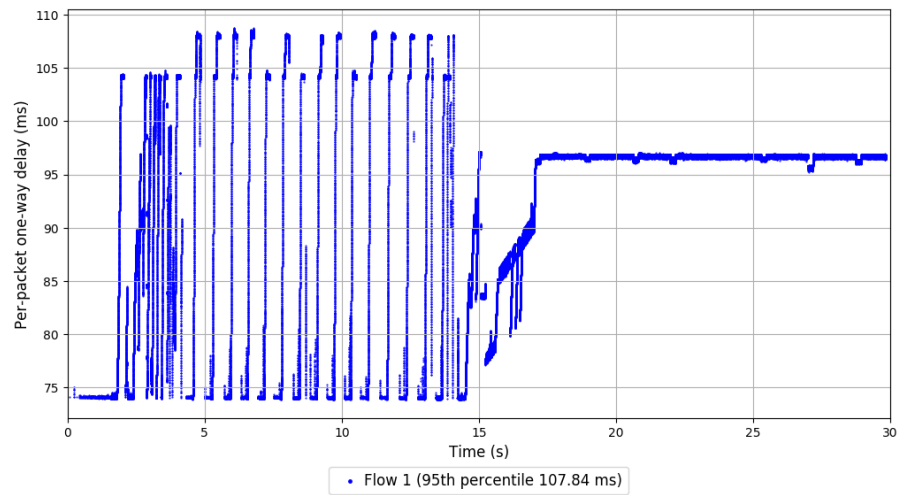
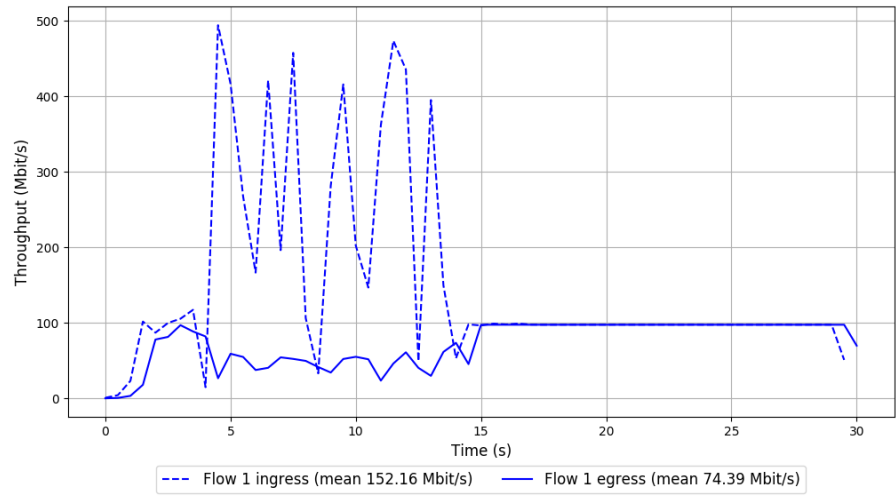
-- Flow 1:

Average throughput: 74.39 Mbit/s

95th percentile per-packet one-way delay: 107.845 ms

Loss rate: 51.07%

# Run 1: Report of Muses\_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-02 18:19:30

End at: 2019-10-02 18:20:00

Local clock offset: -6.91 ms

Remote clock offset: 7.661 ms

# Below is generated by plot.py at 2019-10-02 19:56:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.49 Mbit/s

95th percentile per-packet one-way delay: 95.181 ms

Loss rate: 0.31%

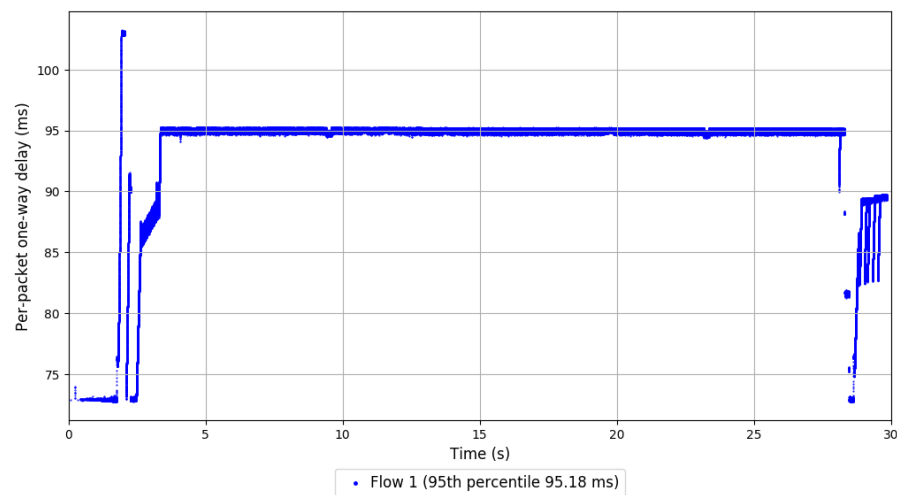
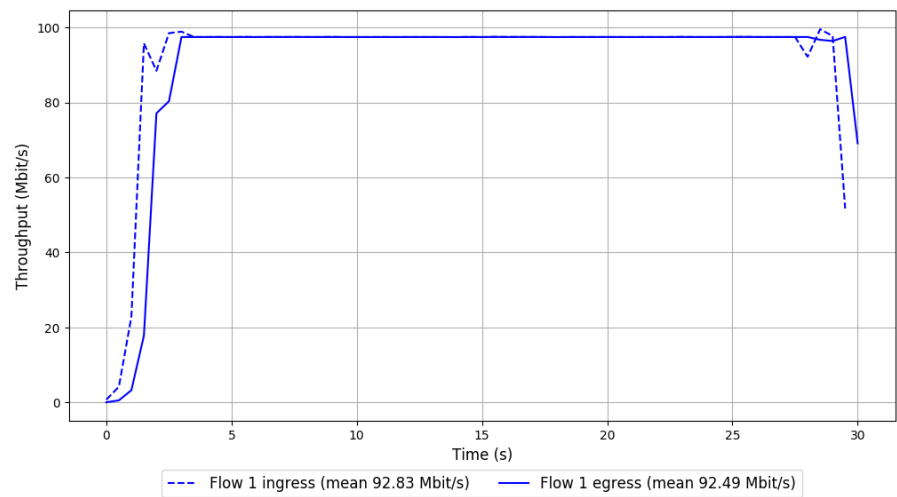
-- Flow 1:

Average throughput: 92.49 Mbit/s

95th percentile per-packet one-way delay: 95.181 ms

Loss rate: 0.31%

Run 2: Report of Muses\_DecisionTreeH0 — Data Link

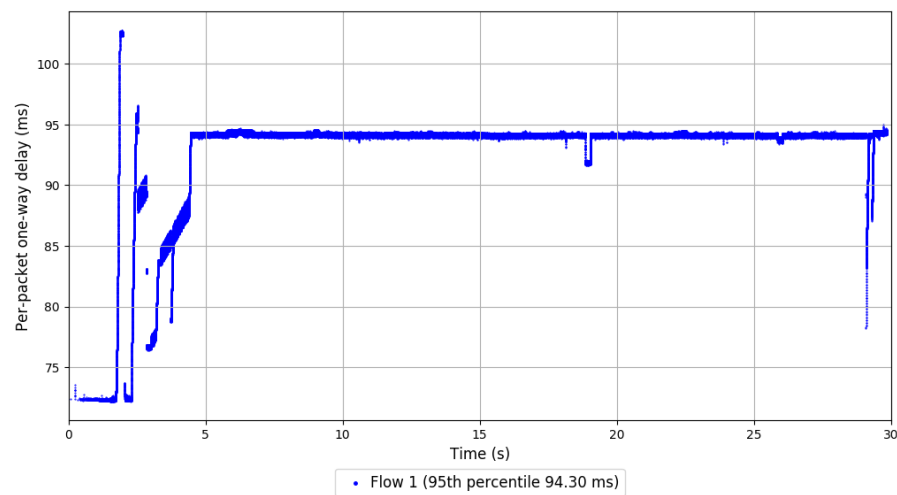
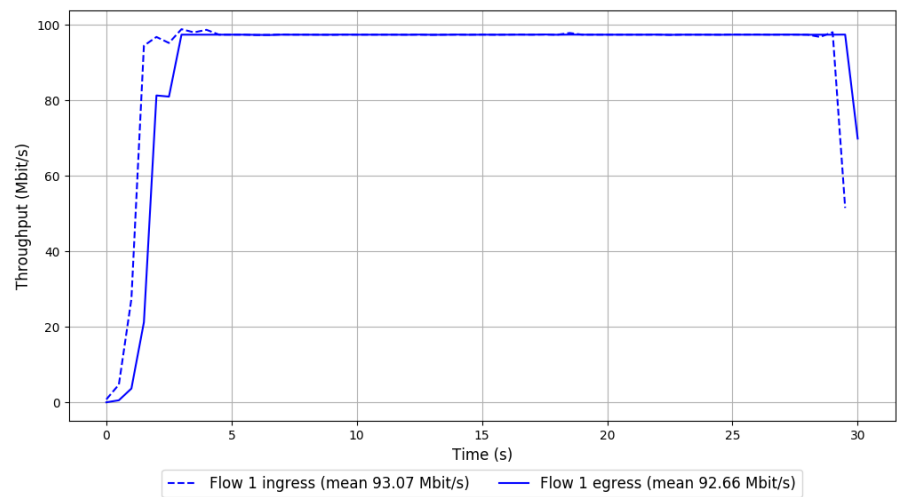


Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-02 18:47:45  
End at: 2019-10-02 18:48:15  
Local clock offset: -7.979 ms  
Remote clock offset: 12.985 ms

# Below is generated by plot.py at 2019-10-02 19:56:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.66 Mbit/s  
95th percentile per-packet one-way delay: 94.300 ms  
Loss rate: 0.36%  
-- Flow 1:  
Average throughput: 92.66 Mbit/s  
95th percentile per-packet one-way delay: 94.300 ms  
Loss rate: 0.36%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link

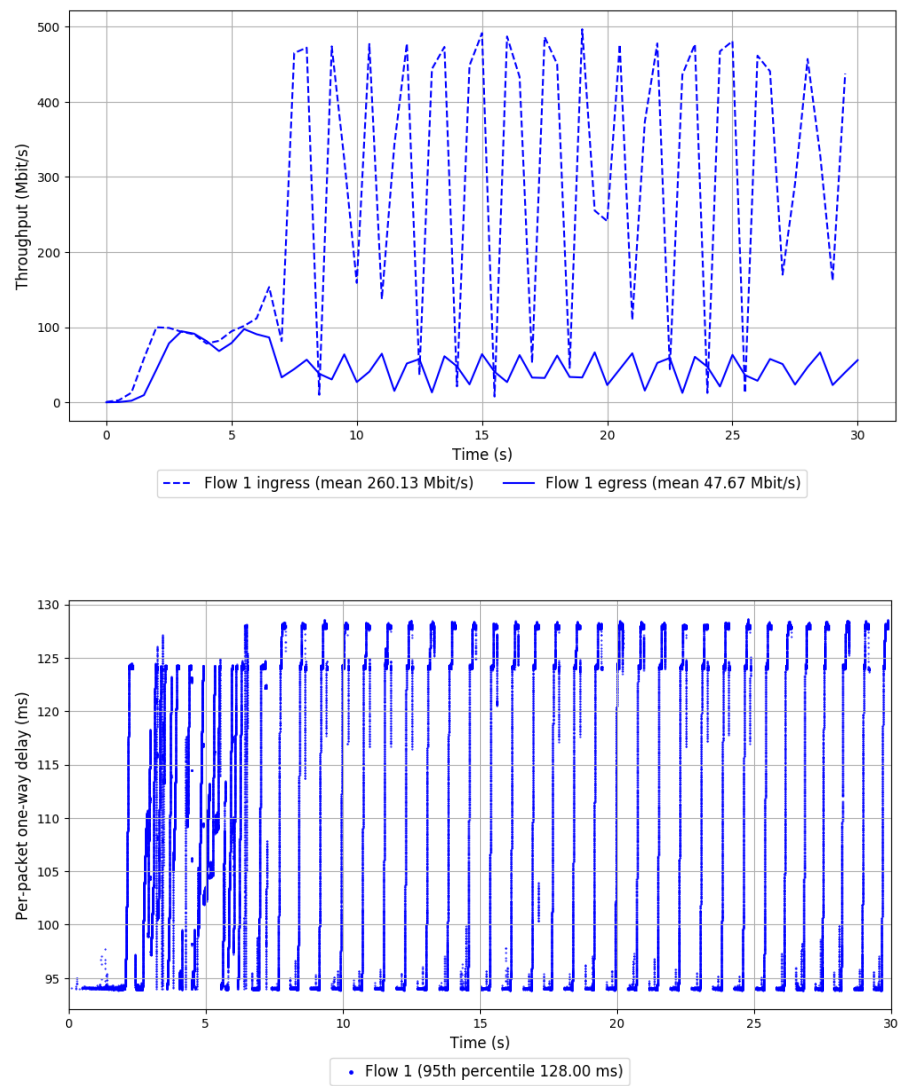


Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-02 19:15:59  
End at: 2019-10-02 19:16:29  
Local clock offset: -6.267 ms  
Remote clock offset: 16.368 ms

# Below is generated by plot.py at 2019-10-02 19:57:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 47.67 Mbit/s  
95th percentile per-packet one-way delay: 128.003 ms  
Loss rate: 81.65%  
-- Flow 1:  
Average throughput: 47.67 Mbit/s  
95th percentile per-packet one-way delay: 128.003 ms  
Loss rate: 81.65%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link



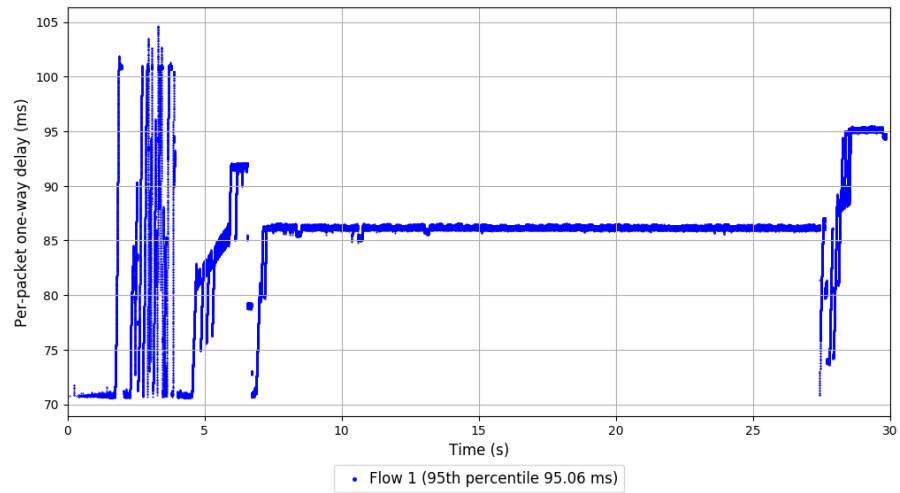
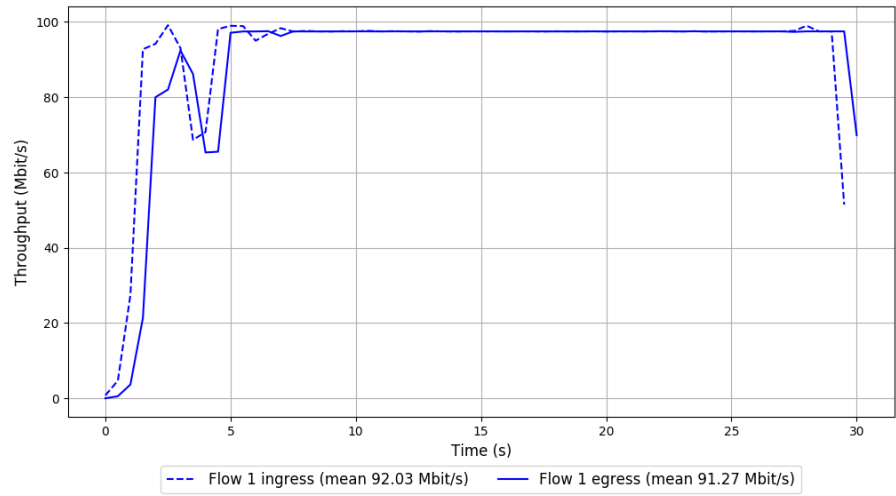


Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-02 19:44:13  
End at: 2019-10-02 19:44:43  
Local clock offset: -5.731 ms  
Remote clock offset: 17.847 ms

# Below is generated by plot.py at 2019-10-02 19:57:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.27 Mbit/s  
95th percentile per-packet one-way delay: 95.056 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 91.27 Mbit/s  
95th percentile per-packet one-way delay: 95.056 ms  
Loss rate: 0.75%

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

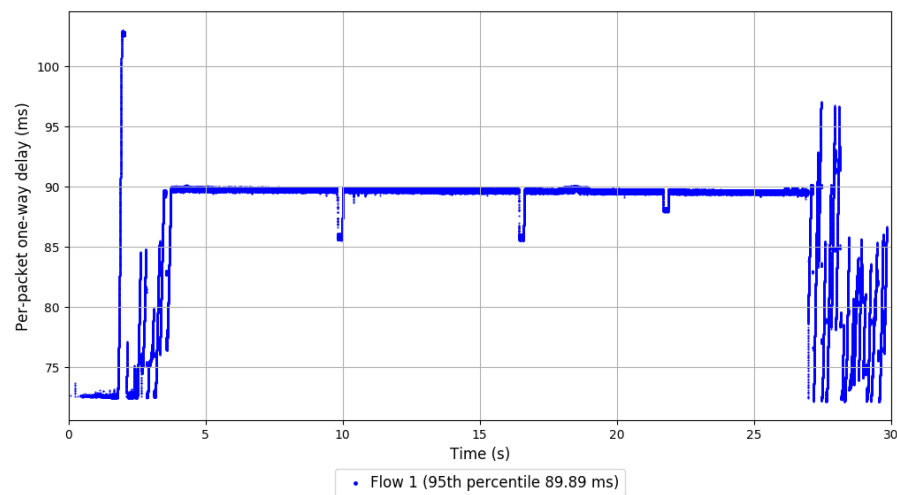
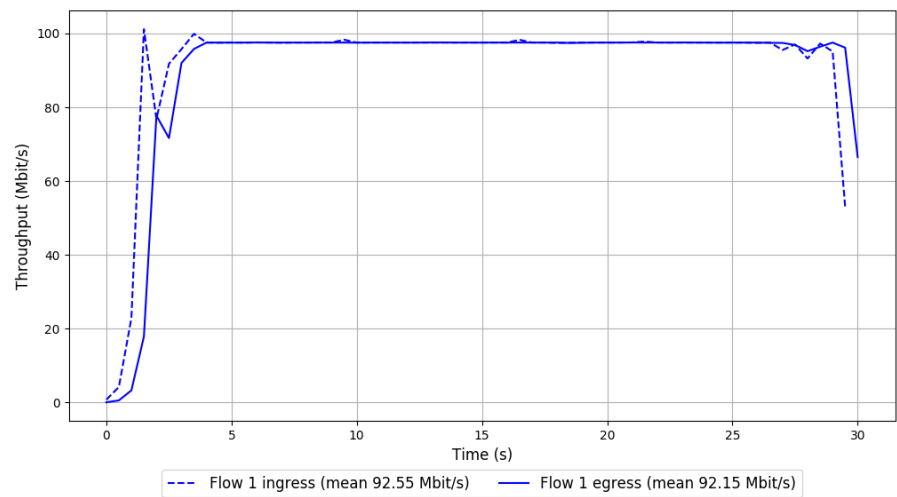


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-10-02 17:37:18
End at: 2019-10-02 17:37:48
Local clock offset: -6.184 ms
Remote clock offset: 0.927 ms

# Below is generated by plot.py at 2019-10-02 19:57:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.15 Mbit/s
95th percentile per-packet one-way delay: 89.895 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 92.15 Mbit/s
95th percentile per-packet one-way delay: 89.895 ms
Loss rate: 0.38%
```

Run 1: Report of Muses\_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-02 18:05:29

End at: 2019-10-02 18:05:59

Local clock offset: -6.619 ms

Remote clock offset: 5.899 ms

# Below is generated by plot.py at 2019-10-02 19:57:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.31 Mbit/s

95th percentile per-packet one-way delay: 88.714 ms

Loss rate: 0.42%

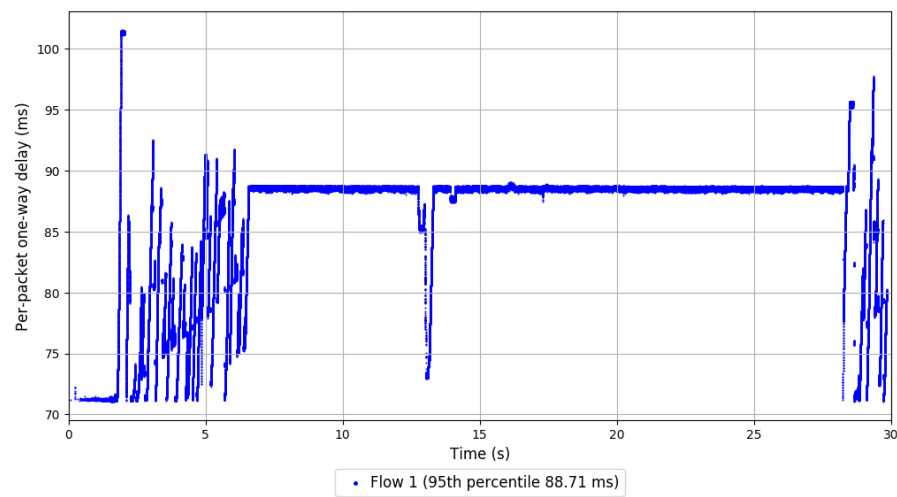
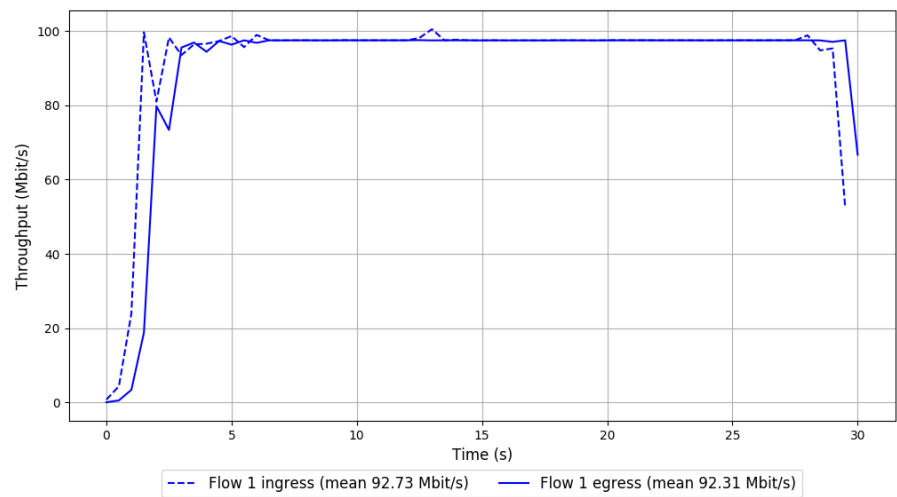
-- Flow 1:

Average throughput: 92.31 Mbit/s

95th percentile per-packet one-way delay: 88.714 ms

Loss rate: 0.42%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-02 18:33:47

End at: 2019-10-02 18:34:17

Local clock offset: -7.361 ms

Remote clock offset: 9.544 ms

# Below is generated by plot.py at 2019-10-02 19:57:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.13 Mbit/s

95th percentile per-packet one-way delay: 93.275 ms

Loss rate: 0.35%

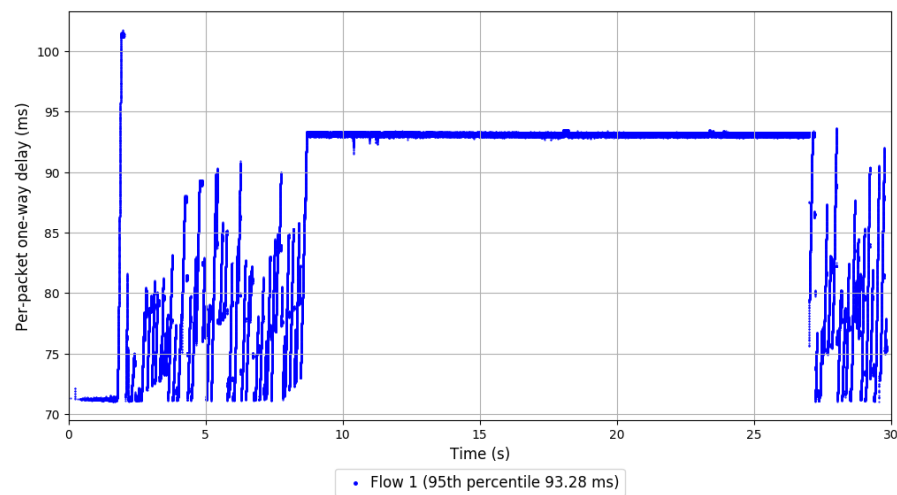
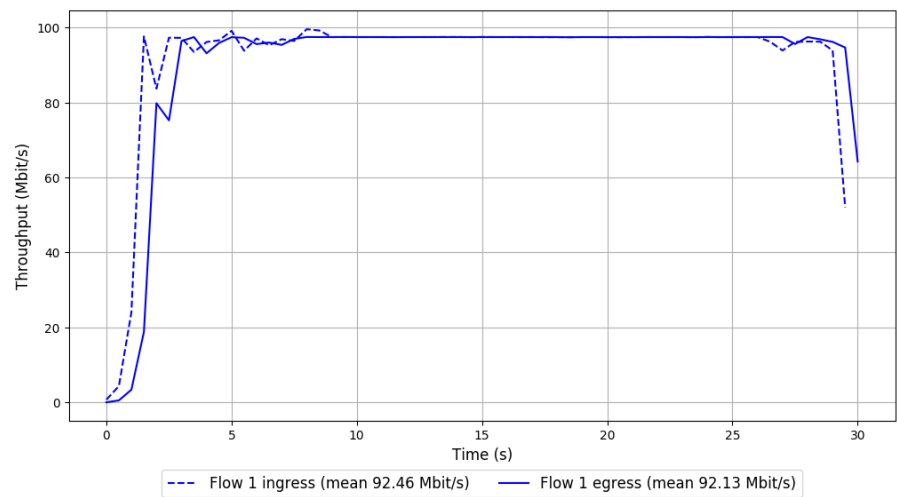
-- Flow 1:

Average throughput: 92.13 Mbit/s

95th percentile per-packet one-way delay: 93.275 ms

Loss rate: 0.35%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link



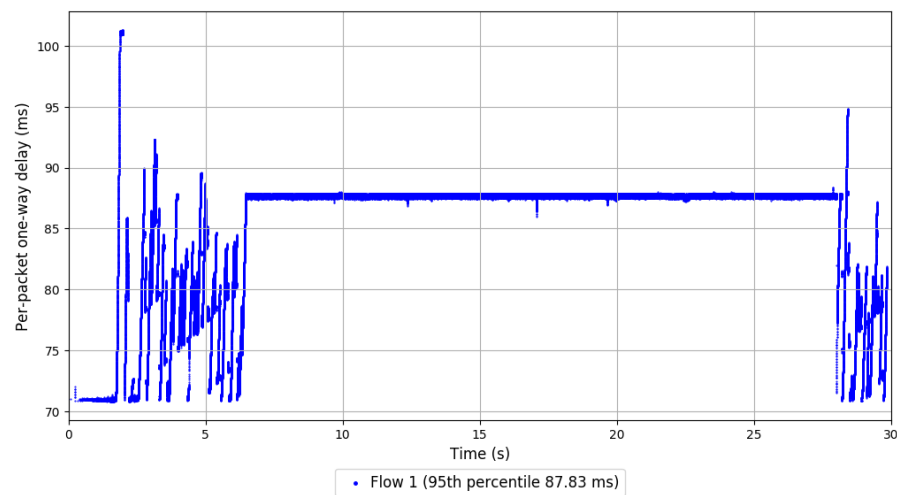
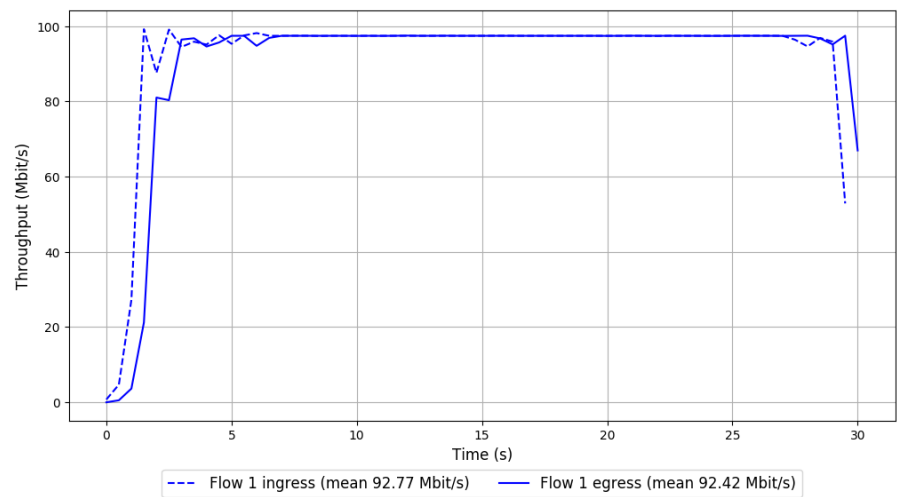


Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-02 19:02:03  
End at: 2019-10-02 19:02:33  
Local clock offset: -6.931 ms  
Remote clock offset: 12.995 ms

# Below is generated by plot.py at 2019-10-02 19:57:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.42 Mbit/s  
95th percentile per-packet one-way delay: 87.828 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 92.42 Mbit/s  
95th percentile per-packet one-way delay: 87.828 ms  
Loss rate: 0.34%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link

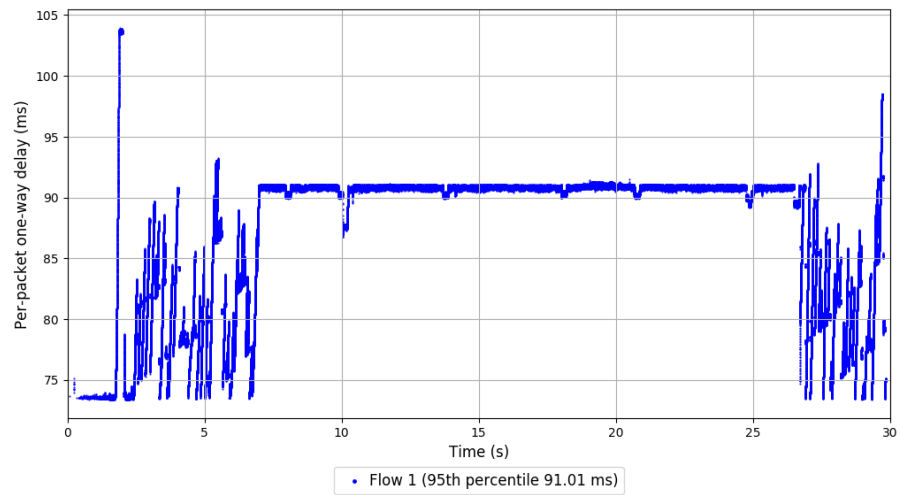
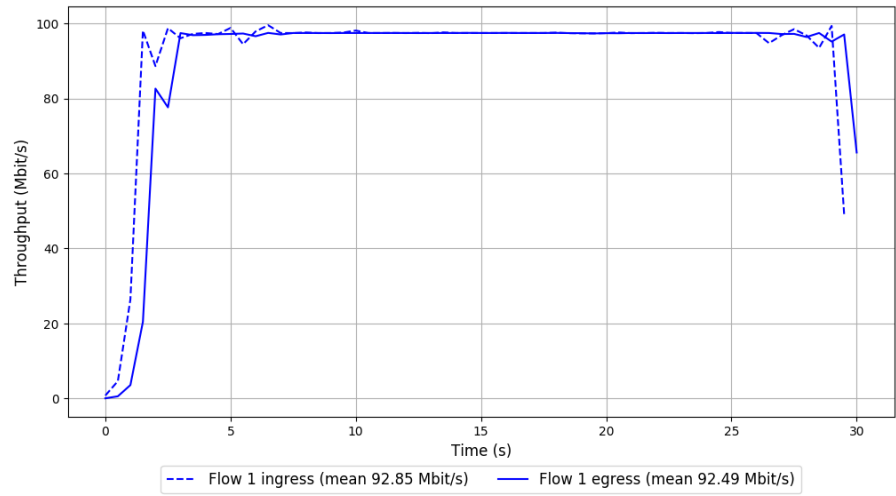


Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-02 19:30:19  
End at: 2019-10-02 19:30:49  
Local clock offset: -5.927 ms  
Remote clock offset: 18.106 ms

# Below is generated by plot.py at 2019-10-02 19:57:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.49 Mbit/s  
95th percentile per-packet one-way delay: 91.009 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 92.49 Mbit/s  
95th percentile per-packet one-way delay: 91.009 ms  
Loss rate: 0.38%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link

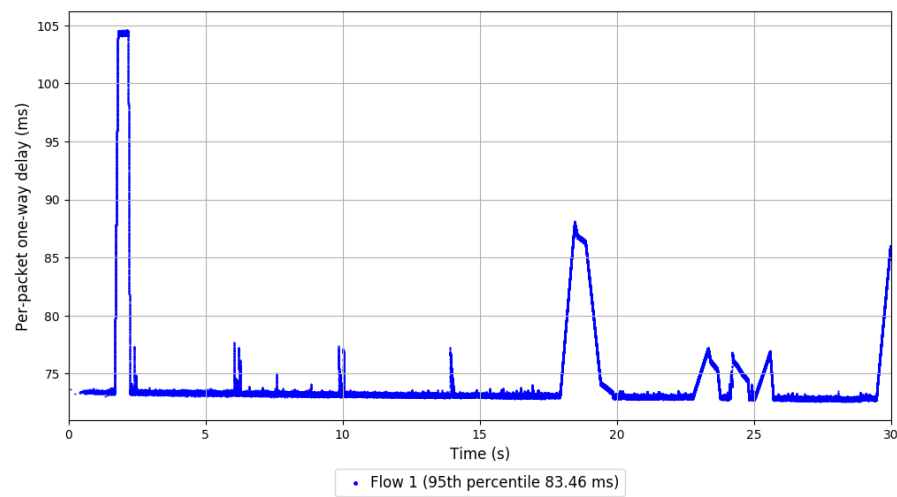
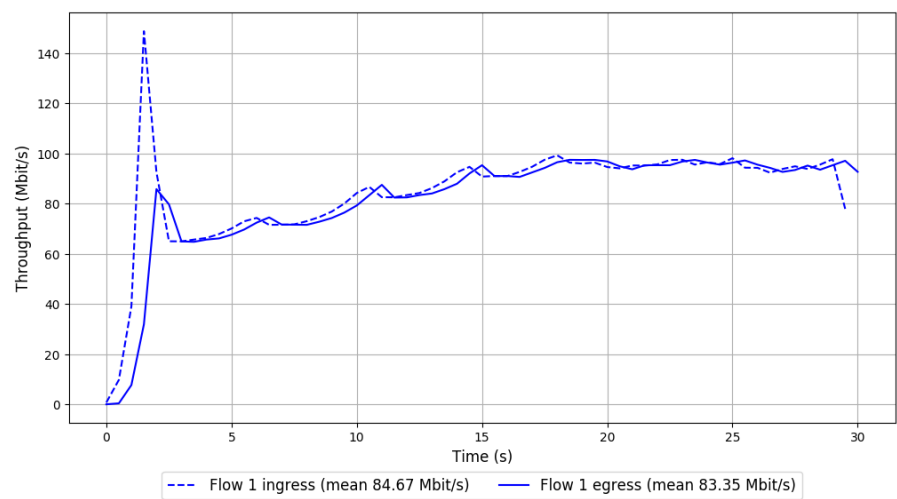


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-10-02 17:34:56
End at: 2019-10-02 17:35:26
Local clock offset: -3.856 ms
Remote clock offset: 1.95 ms

# Below is generated by plot.py at 2019-10-02 19:57:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.35 Mbit/s
95th percentile per-packet one-way delay: 83.459 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 83.35 Mbit/s
95th percentile per-packet one-way delay: 83.459 ms
Loss rate: 1.52%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-10-02 18:03:07

End at: 2019-10-02 18:03:37

Local clock offset: -6.772 ms

Remote clock offset: 7.337 ms

# Below is generated by plot.py at 2019-10-02 19:58:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.08 Mbit/s

95th percentile per-packet one-way delay: 92.264 ms

Loss rate: 1.41%

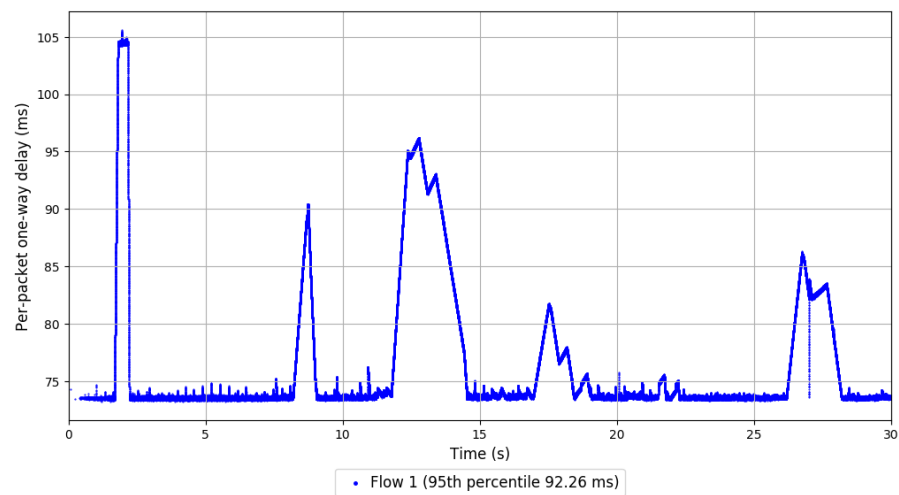
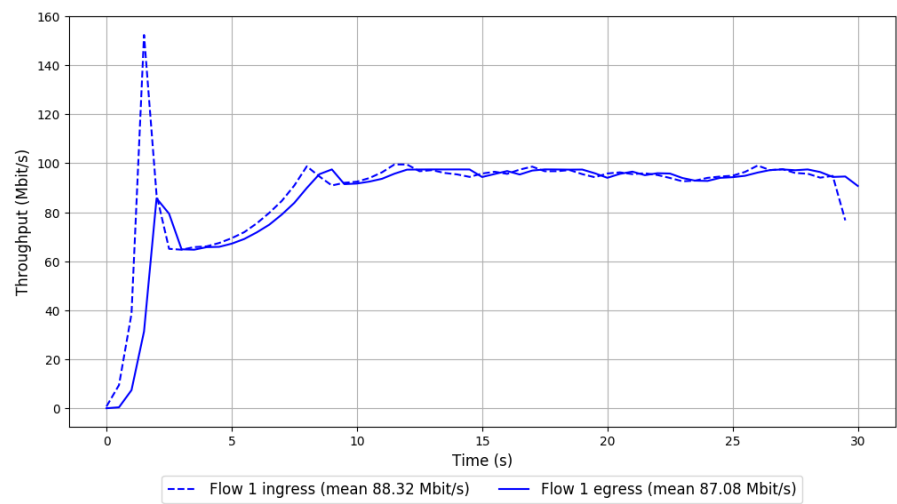
-- Flow 1:

Average throughput: 87.08 Mbit/s

95th percentile per-packet one-way delay: 92.264 ms

Loss rate: 1.41%

Run 2: Report of PCC-Allegro — Data Link





Run 3: Statistics of PCC-Allegro

Start at: 2019-10-02 18:31:25

End at: 2019-10-02 18:31:55

Local clock offset: -7.23 ms

Remote clock offset: 10.914 ms

# Below is generated by plot.py at 2019-10-02 19:58:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.19 Mbit/s

95th percentile per-packet one-way delay: 86.200 ms

Loss rate: 1.42%

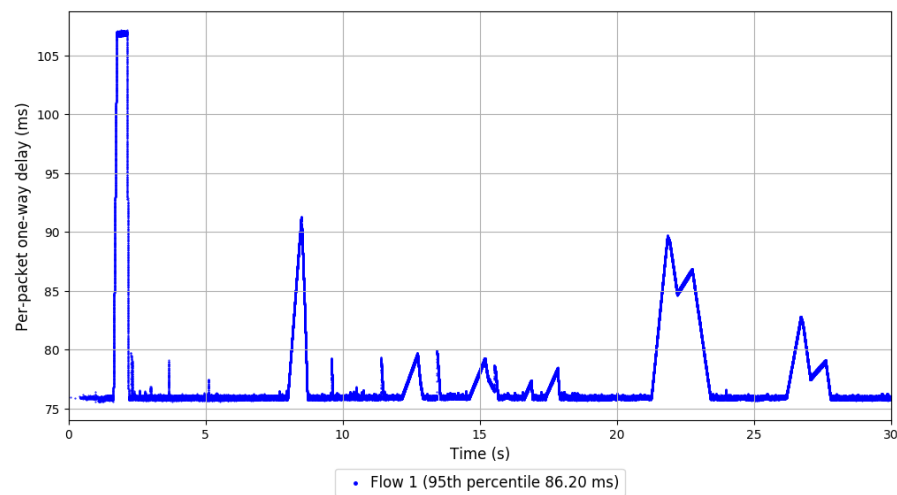
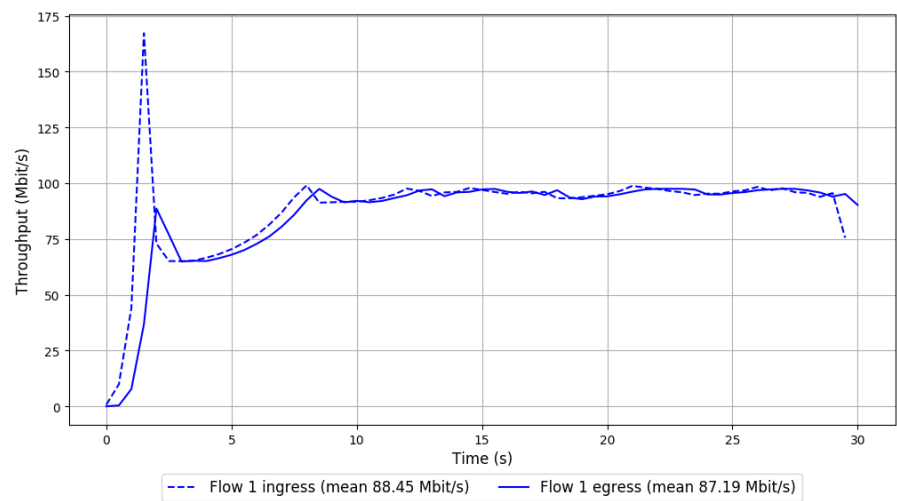
-- Flow 1:

Average throughput: 87.19 Mbit/s

95th percentile per-packet one-way delay: 86.200 ms

Loss rate: 1.42%

Run 3: Report of PCC-Allegro — Data Link

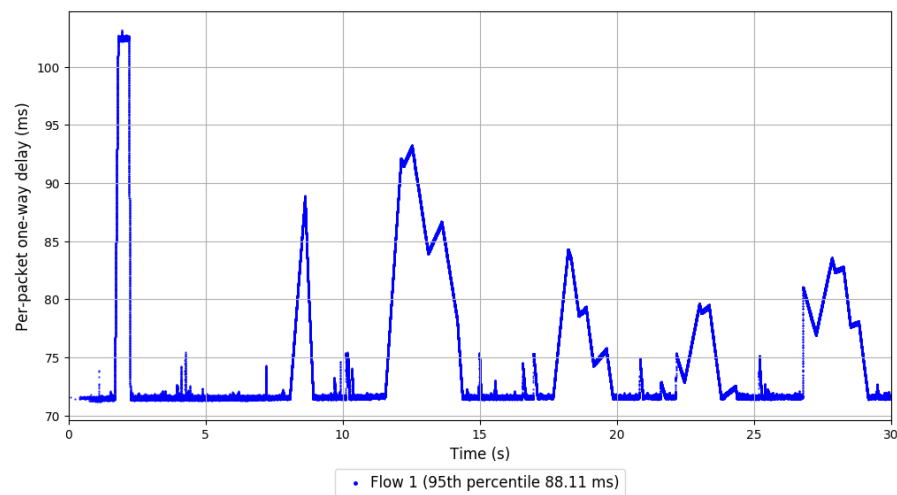
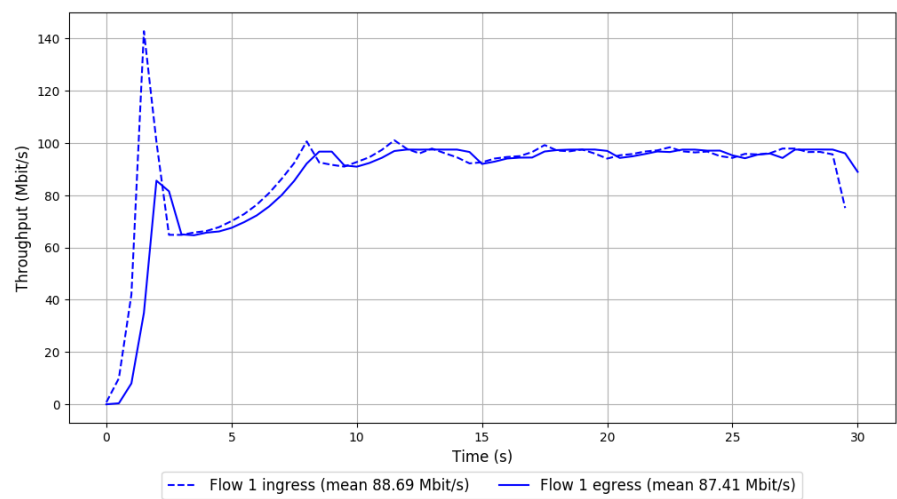


Run 4: Statistics of PCC-Allegro

Start at: 2019-10-02 18:59:41  
End at: 2019-10-02 19:00:11  
Local clock offset: -7.26 ms  
Remote clock offset: 12.794 ms

# Below is generated by plot.py at 2019-10-02 19:58:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.41 Mbit/s  
95th percentile per-packet one-way delay: 88.115 ms  
Loss rate: 1.44%  
-- Flow 1:  
Average throughput: 87.41 Mbit/s  
95th percentile per-packet one-way delay: 88.115 ms  
Loss rate: 1.44%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-10-02 19:27:56

End at: 2019-10-02 19:28:26

Local clock offset: -6.043 ms

Remote clock offset: 17.77 ms

# Below is generated by plot.py at 2019-10-02 19:58:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.22 Mbit/s

95th percentile per-packet one-way delay: 87.794 ms

Loss rate: 1.41%

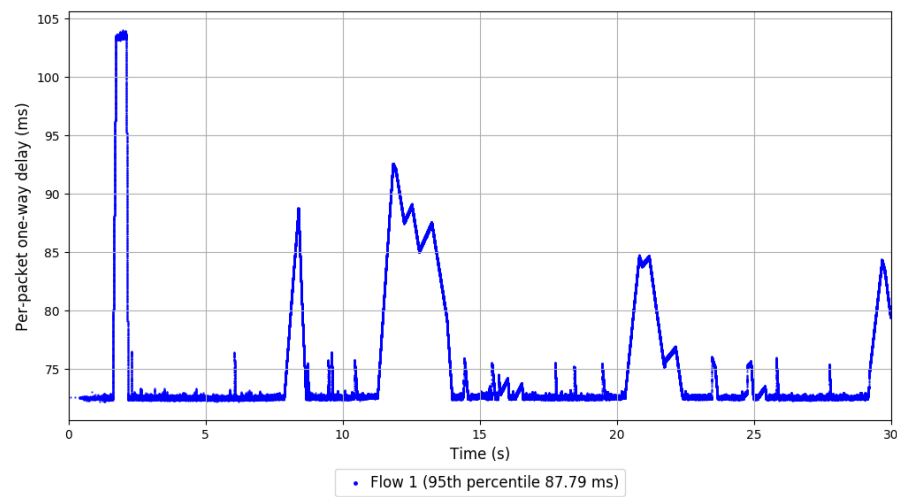
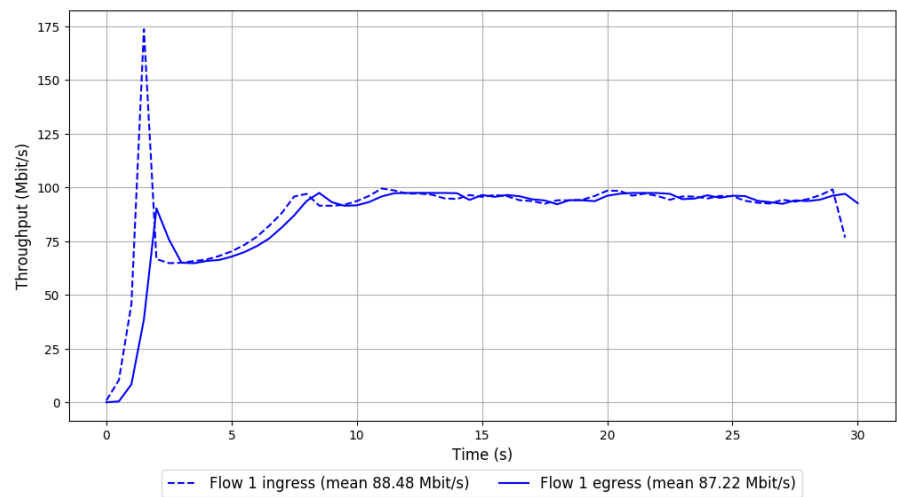
-- Flow 1:

Average throughput: 87.22 Mbit/s

95th percentile per-packet one-way delay: 87.794 ms

Loss rate: 1.41%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-10-02 17:46:35

End at: 2019-10-02 17:47:05

Local clock offset: -7.423 ms

Remote clock offset: 4.803 ms

# Below is generated by plot.py at 2019-10-02 19:58:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.32 Mbit/s

95th percentile per-packet one-way delay: 73.364 ms

Loss rate: 59.34%

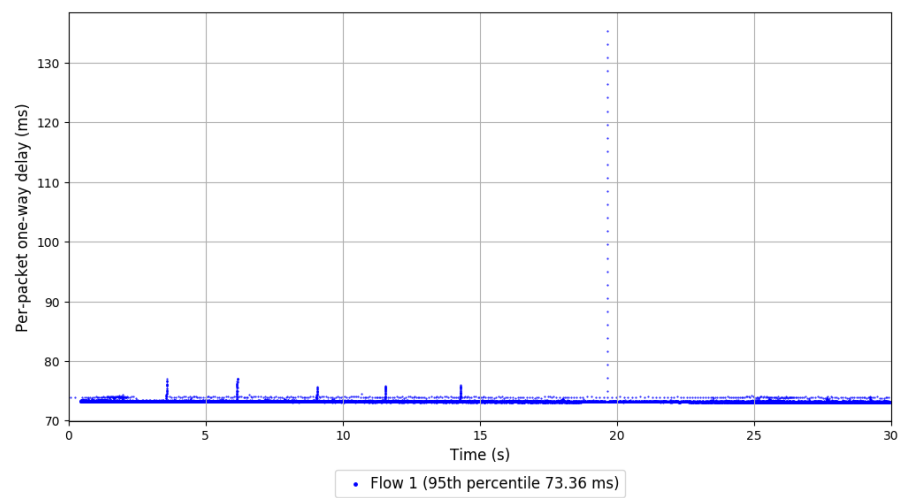
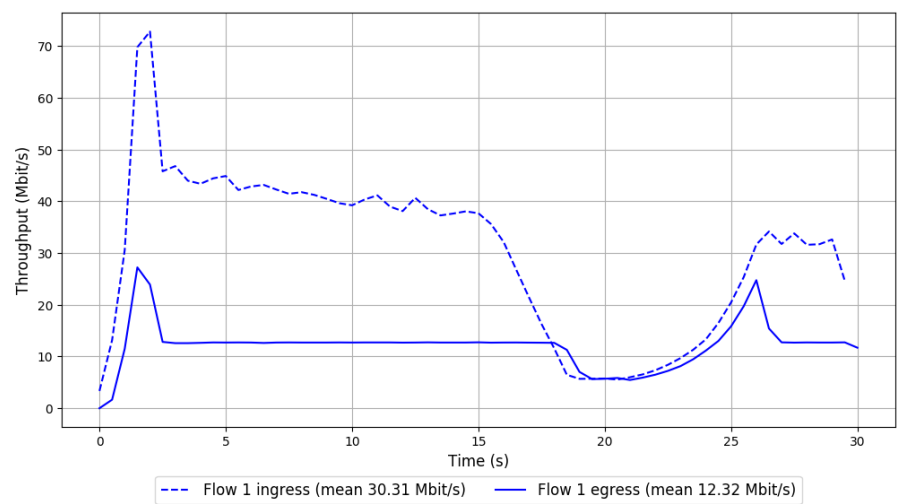
-- Flow 1:

Average throughput: 12.32 Mbit/s

95th percentile per-packet one-way delay: 73.364 ms

Loss rate: 59.34%

Run 1: Report of PCC-Expr — Data Link





Run 2: Statistics of PCC-Expr

Start at: 2019-10-02 18:14:50

End at: 2019-10-02 18:15:20

Local clock offset: -6.679 ms

Remote clock offset: 8.74 ms

# Below is generated by plot.py at 2019-10-02 19:58:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.52 Mbit/s

95th percentile per-packet one-way delay: 73.162 ms

Loss rate: 60.35%

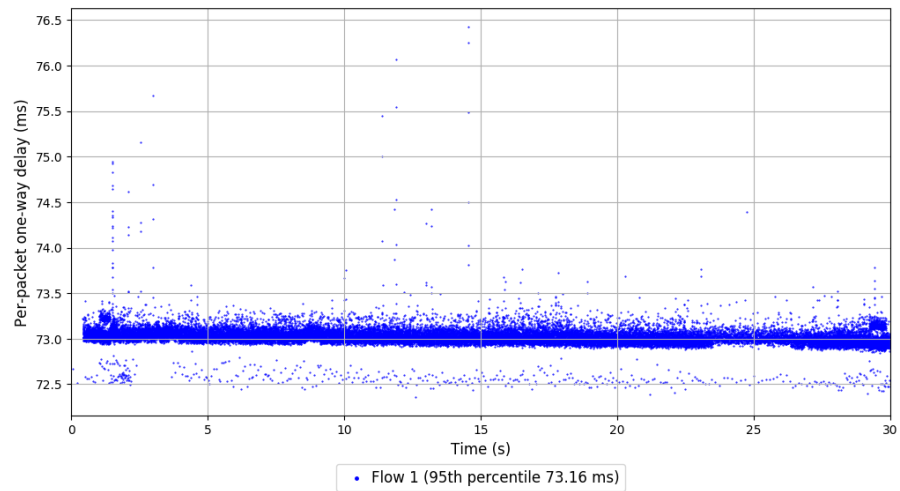
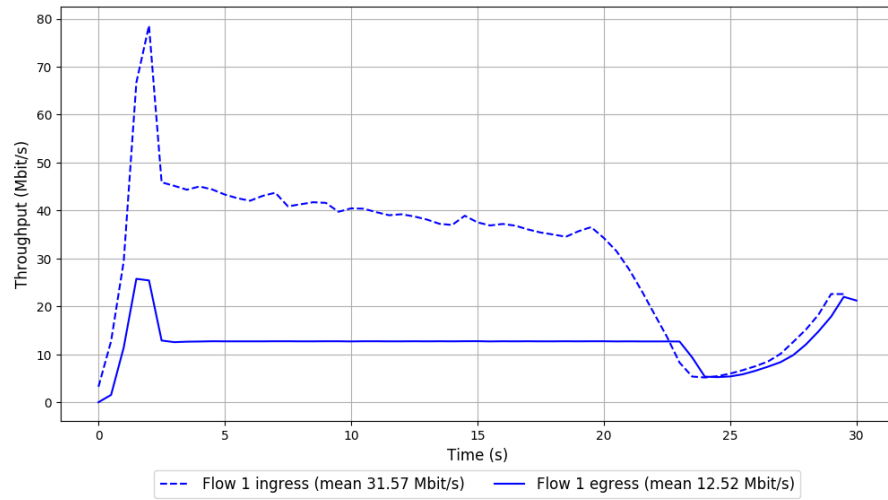
-- Flow 1:

Average throughput: 12.52 Mbit/s

95th percentile per-packet one-way delay: 73.162 ms

Loss rate: 60.35%

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

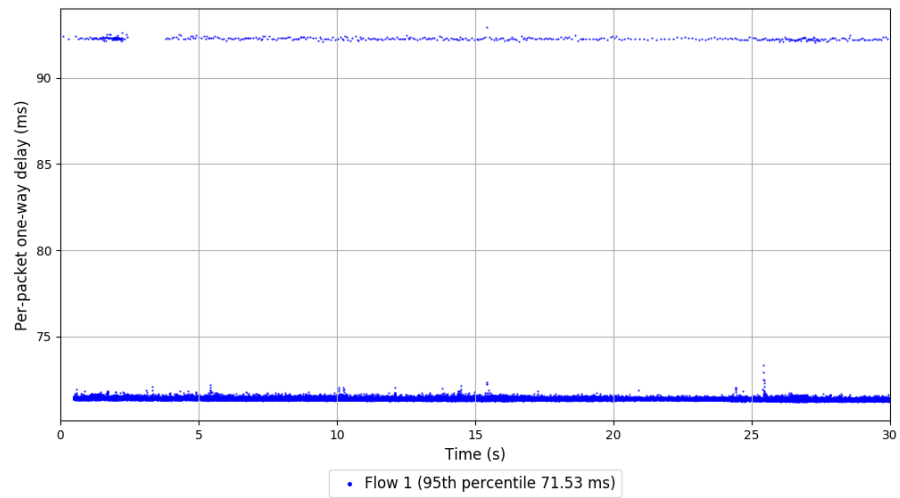
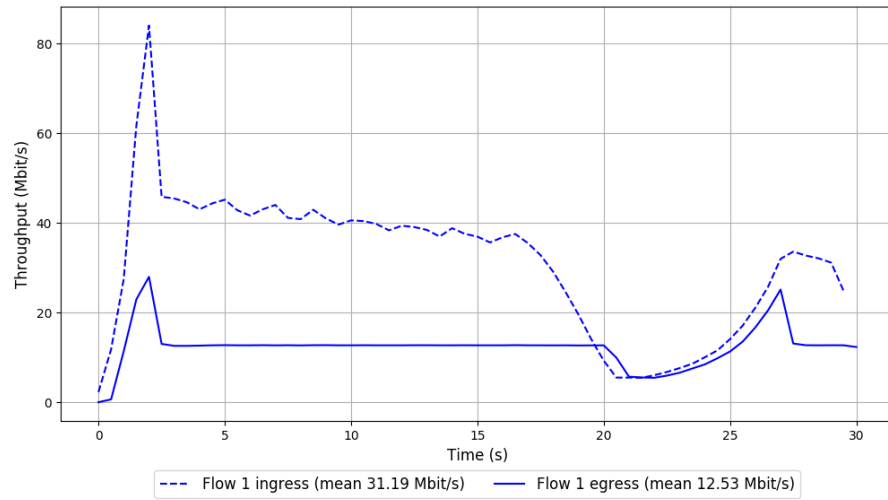


Run 3: Statistics of PCC-Expr

Start at: 2019-10-02 18:43:07  
End at: 2019-10-02 18:43:37  
Local clock offset: -7.723 ms  
Remote clock offset: 10.566 ms

# Below is generated by plot.py at 2019-10-02 19:58:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.53 Mbit/s  
95th percentile per-packet one-way delay: 71.526 ms  
Loss rate: 59.87%  
-- Flow 1:  
Average throughput: 12.53 Mbit/s  
95th percentile per-packet one-way delay: 71.526 ms  
Loss rate: 59.87%

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

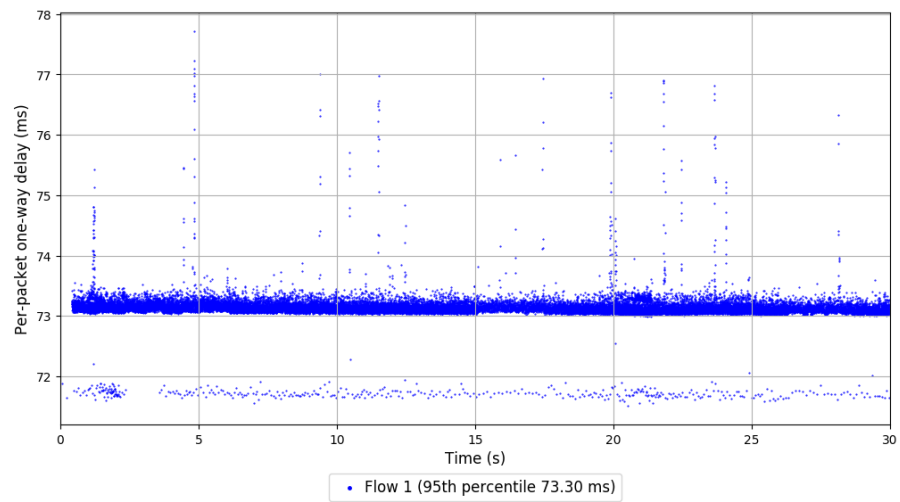
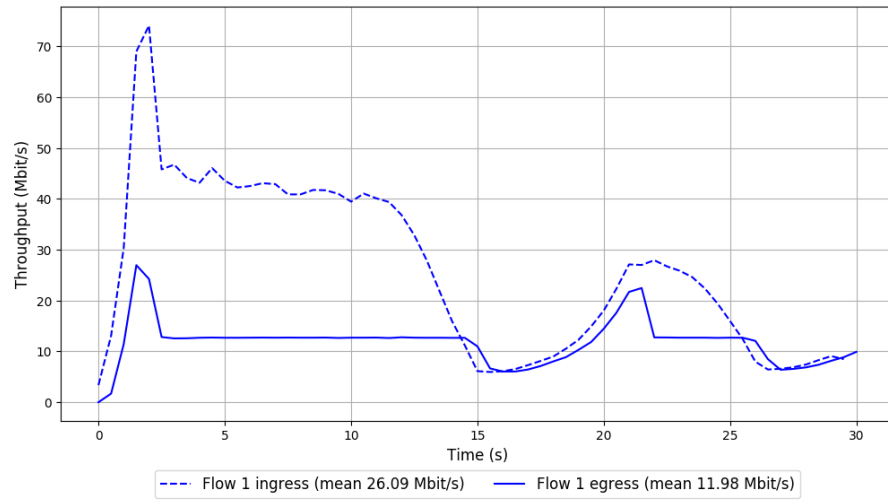


Run 4: Statistics of PCC-Expr

Start at: 2019-10-02 19:11:20  
End at: 2019-10-02 19:11:50  
Local clock offset: -6.323 ms  
Remote clock offset: 14.197 ms

# Below is generated by plot.py at 2019-10-02 19:58:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 11.98 Mbit/s  
95th percentile per-packet one-way delay: 73.299 ms  
Loss rate: 54.09%  
-- Flow 1:  
Average throughput: 11.98 Mbit/s  
95th percentile per-packet one-way delay: 73.299 ms  
Loss rate: 54.09%

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

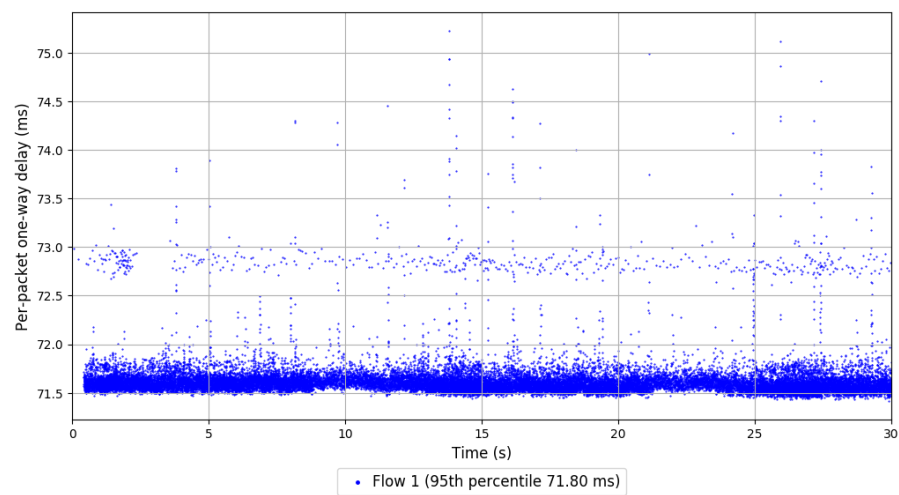
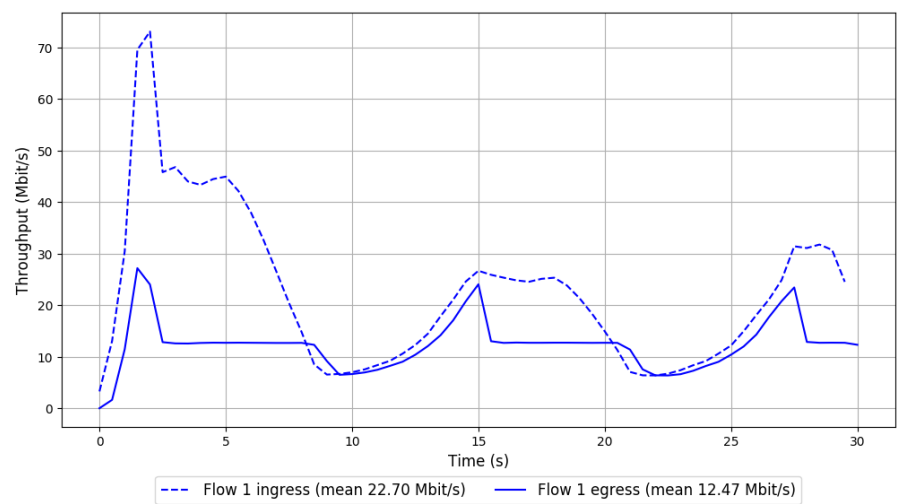


Run 5: Statistics of PCC-Expr

Start at: 2019-10-02 19:39:36  
End at: 2019-10-02 19:40:06  
Local clock offset: -5.679 ms  
Remote clock offset: 17.319 ms

# Below is generated by plot.py at 2019-10-02 19:58:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.47 Mbit/s  
95th percentile per-packet one-way delay: 71.802 ms  
Loss rate: 45.08%  
-- Flow 1:  
Average throughput: 12.47 Mbit/s  
95th percentile per-packet one-way delay: 71.802 ms  
Loss rate: 45.08%

Run 5: Report of PCC-Expr — Data Link





Run 1: Statistics of QUIC Cubic

Start at: 2019-10-02 17:28:57

End at: 2019-10-02 17:29:27

Local clock offset: 4.404 ms

Remote clock offset: -2.999 ms

# Below is generated by plot.py at 2019-10-02 19:58:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 62.29 Mbit/s

95th percentile per-packet one-way delay: 97.084 ms

Loss rate: 0.50%

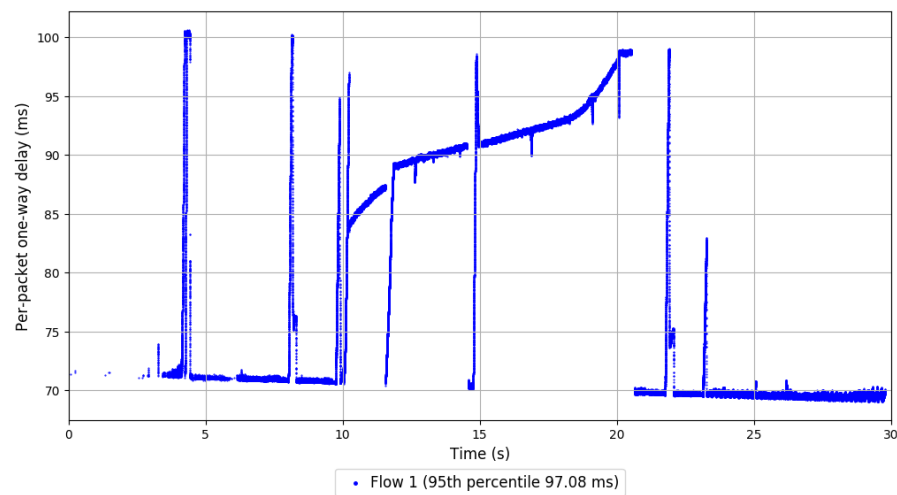
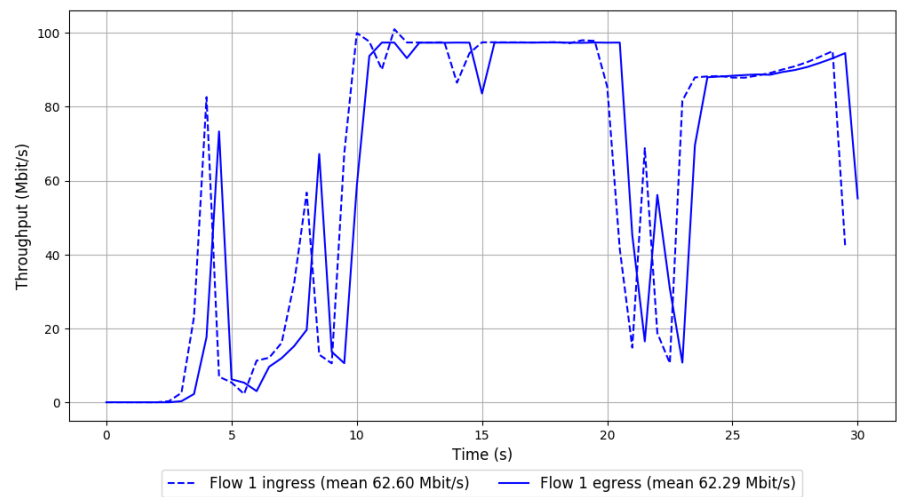
-- Flow 1:

Average throughput: 62.29 Mbit/s

95th percentile per-packet one-way delay: 97.084 ms

Loss rate: 0.50%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-10-02 17:57:08

End at: 2019-10-02 17:57:38

Local clock offset: -7.508 ms

Remote clock offset: 4.742 ms

# Below is generated by plot.py at 2019-10-02 19:58:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.07 Mbit/s

95th percentile per-packet one-way delay: 91.978 ms

Loss rate: 0.33%

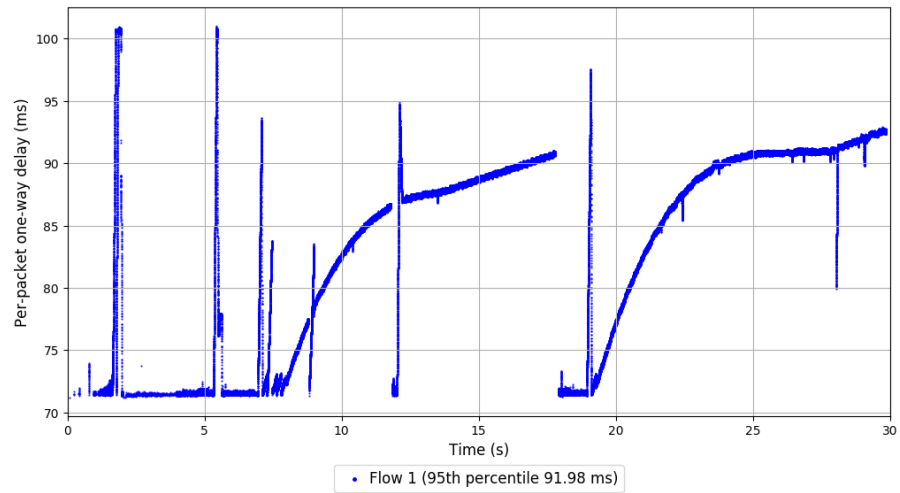
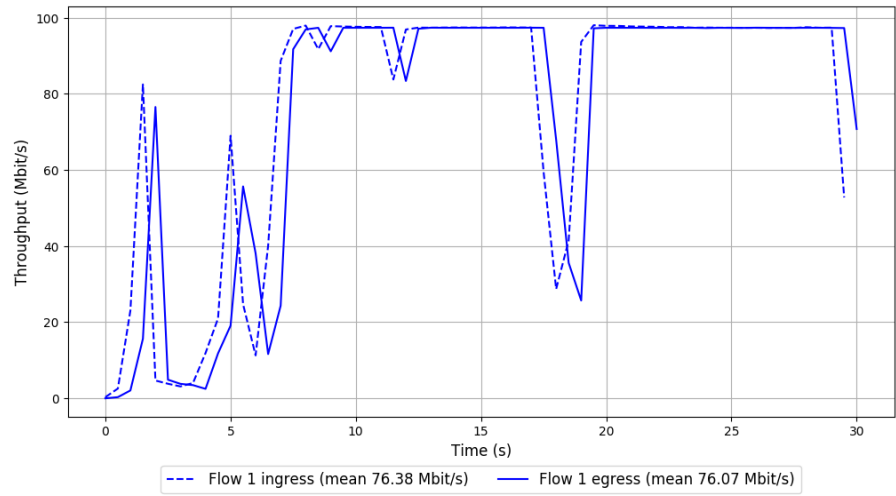
-- Flow 1:

Average throughput: 76.07 Mbit/s

95th percentile per-packet one-way delay: 91.978 ms

Loss rate: 0.33%

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



Run 3: Statistics of QUIC Cubic

Start at: 2019-10-02 18:25:26

End at: 2019-10-02 18:25:56

Local clock offset: -7.22 ms

Remote clock offset: 10.192 ms

# Below is generated by plot.py at 2019-10-02 19:58:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.04 Mbit/s

95th percentile per-packet one-way delay: 92.012 ms

Loss rate: 0.43%

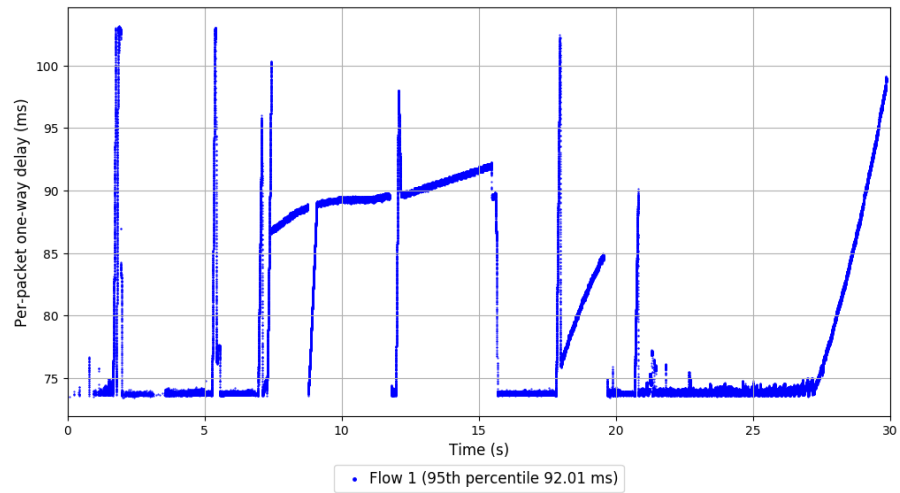
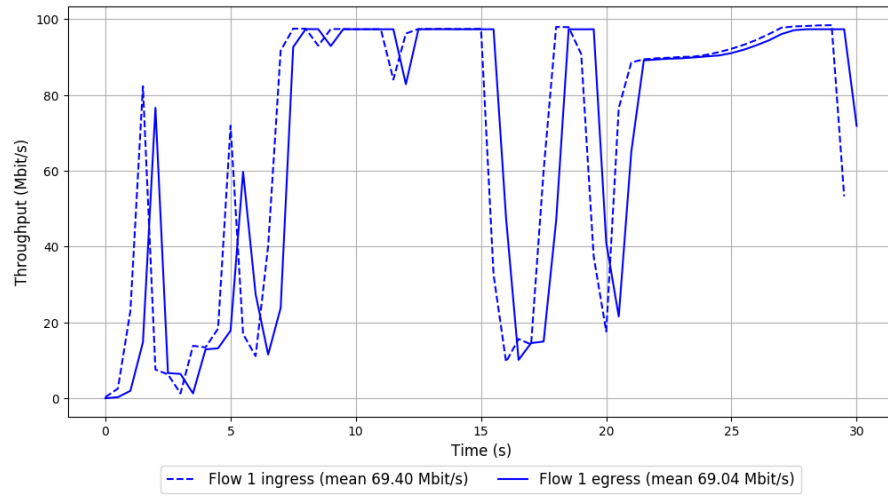
-- Flow 1:

Average throughput: 69.04 Mbit/s

95th percentile per-packet one-way delay: 92.012 ms

Loss rate: 0.43%

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

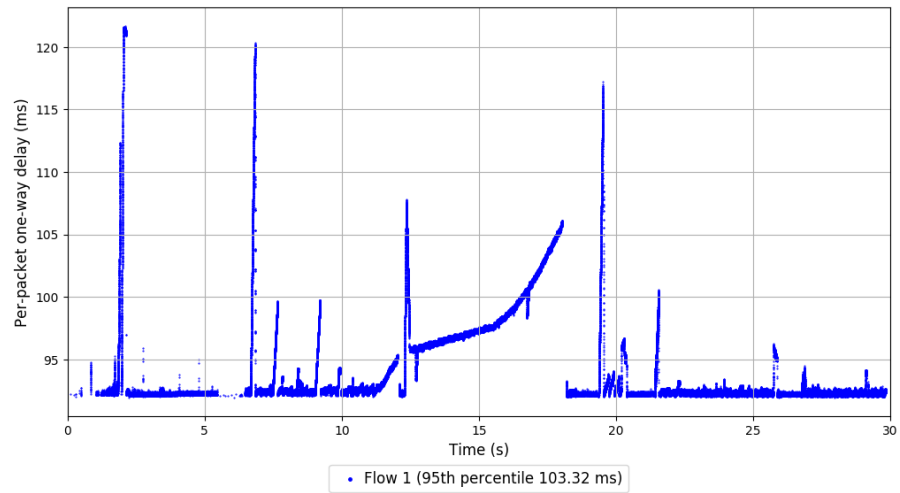
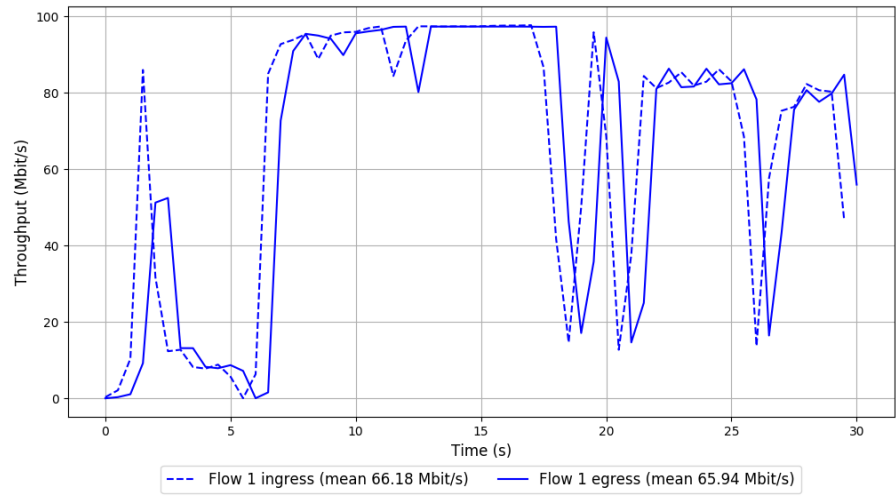


Run 4: Statistics of QUIC Cubic

Start at: 2019-10-02 18:53:42  
End at: 2019-10-02 18:54:12  
Local clock offset: -8.307 ms  
Remote clock offset: 11.999 ms

# Below is generated by plot.py at 2019-10-02 19:58:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 65.94 Mbit/s  
95th percentile per-packet one-way delay: 103.320 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 65.94 Mbit/s  
95th percentile per-packet one-way delay: 103.320 ms  
Loss rate: 0.43%

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



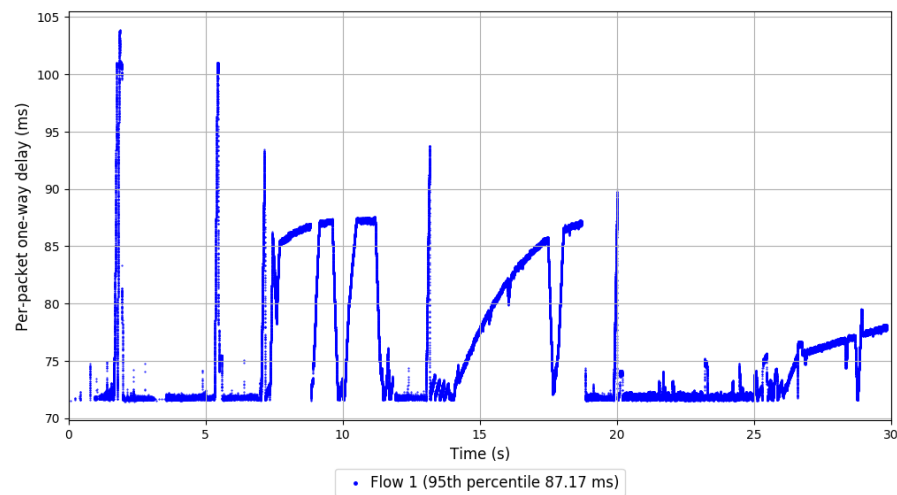
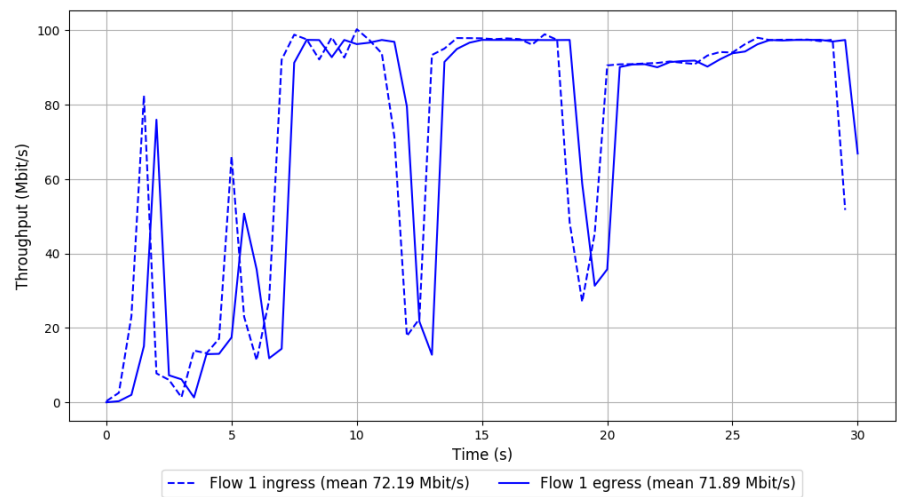


Run 5: Statistics of QUIC Cubic

Start at: 2019-10-02 19:21:57  
End at: 2019-10-02 19:22:27  
Local clock offset: -6.284 ms  
Remote clock offset: 15.399 ms

# Below is generated by plot.py at 2019-10-02 19:59:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 71.89 Mbit/s  
95th percentile per-packet one-way delay: 87.167 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 71.89 Mbit/s  
95th percentile per-packet one-way delay: 87.167 ms  
Loss rate: 0.39%

Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2019-10-02 17:48:52

End at: 2019-10-02 17:49:22

Local clock offset: -7.539 ms

Remote clock offset: 5.365 ms

# Below is generated by plot.py at 2019-10-02 19:59:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 74.733 ms

Loss rate: 0.00%

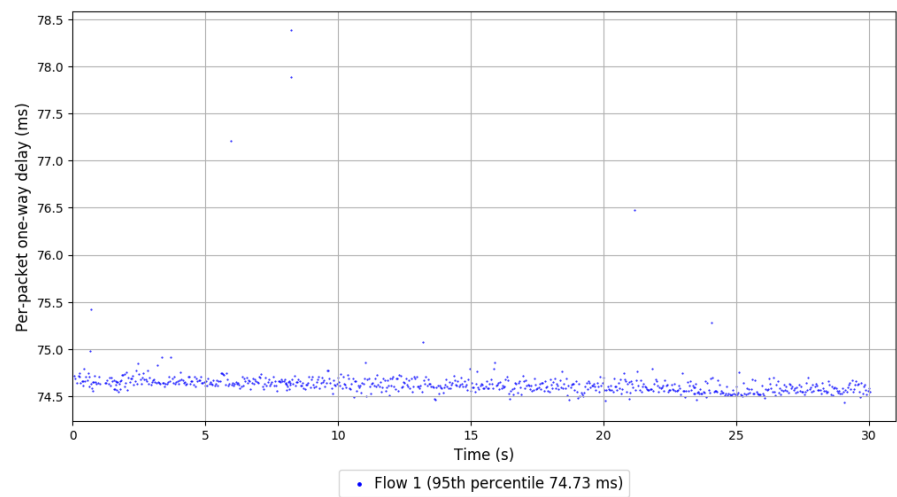
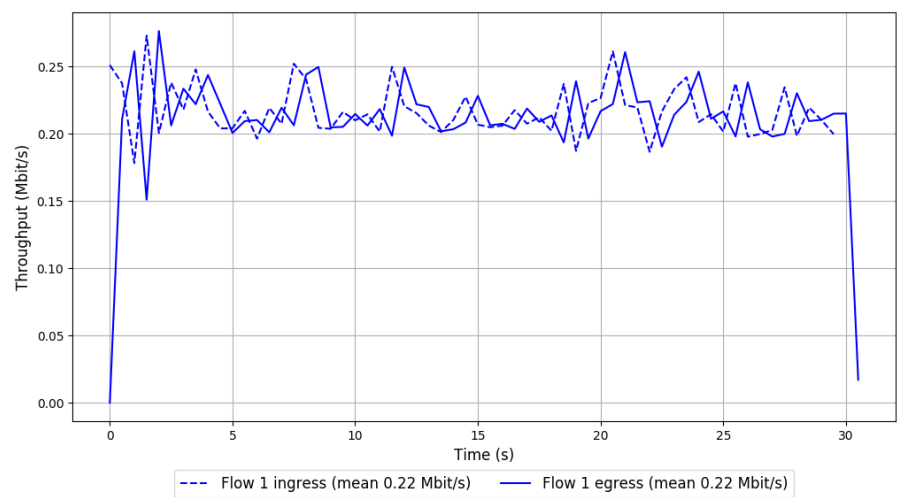
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 74.733 ms

Loss rate: 0.00%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-10-02 18:17:10

End at: 2019-10-02 18:17:40

Local clock offset: -6.78 ms

Remote clock offset: 7.385 ms

# Below is generated by plot.py at 2019-10-02 19:59:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 71.472 ms

Loss rate: 0.00%

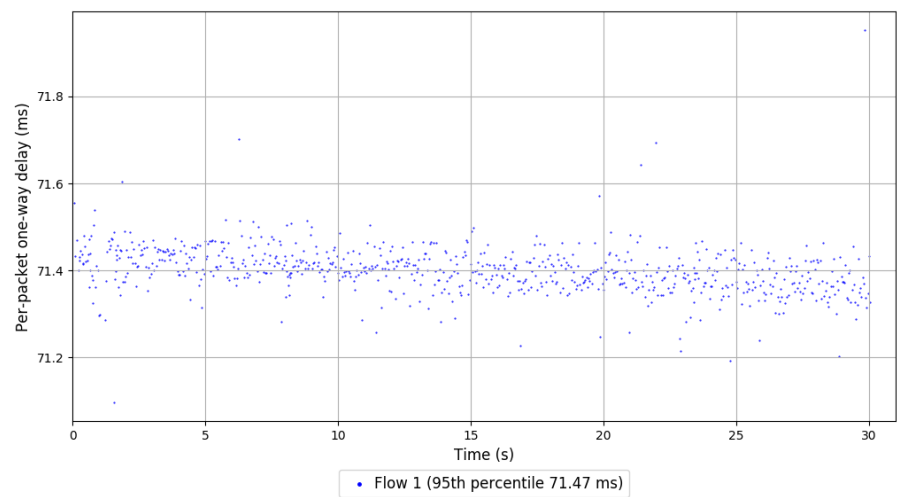
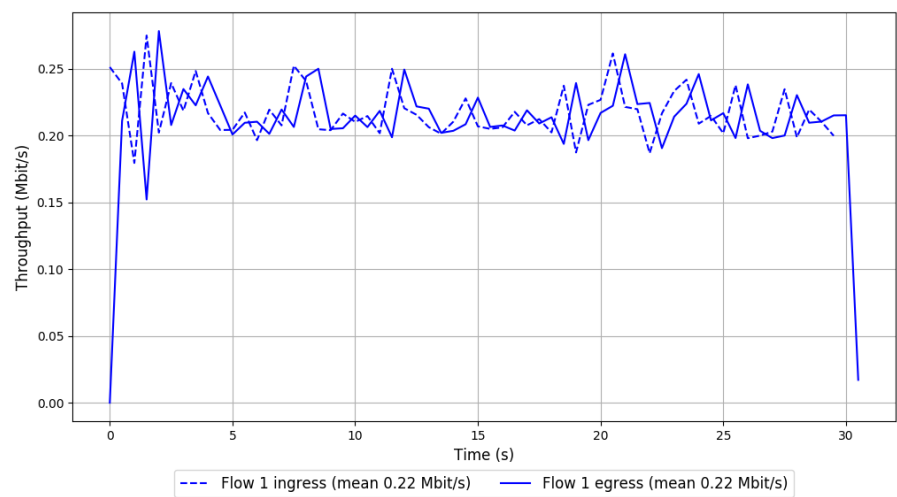
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 71.472 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

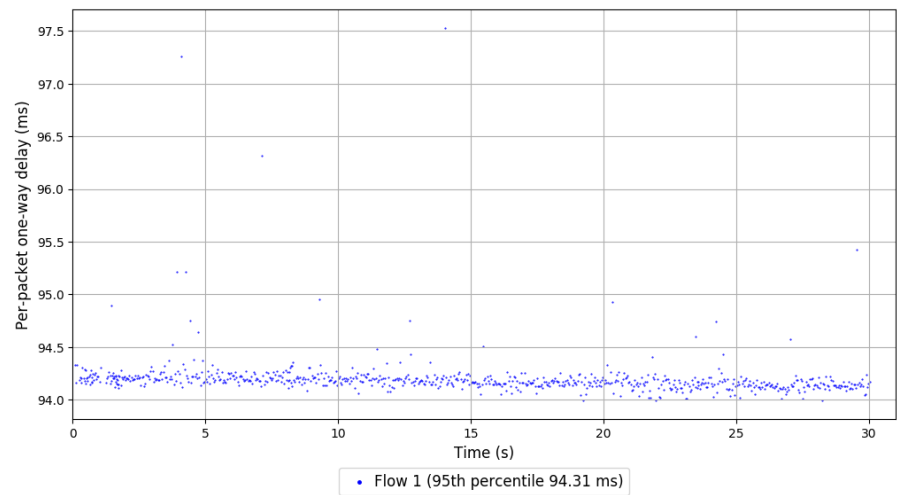
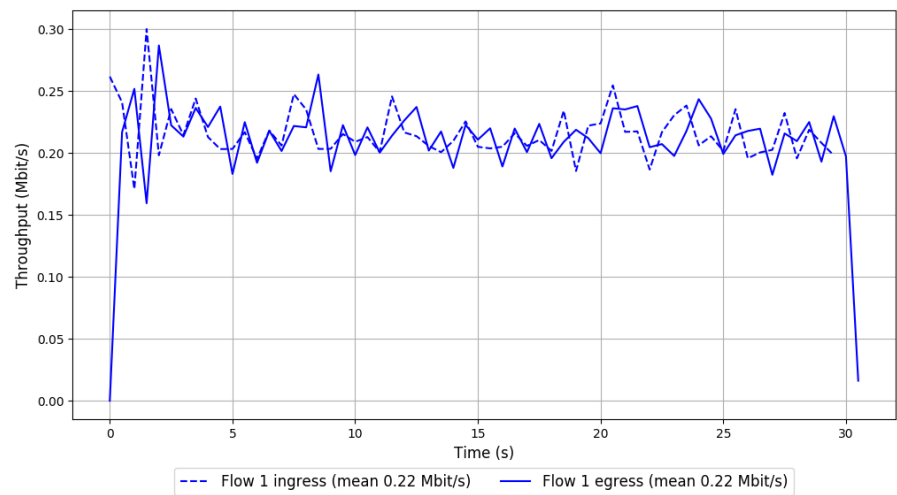


Run 3: Statistics of SCReAM

Start at: 2019-10-02 18:45:26  
End at: 2019-10-02 18:45:56  
Local clock offset: -7.834 ms  
Remote clock offset: 12.764 ms

# Below is generated by plot.py at 2019-10-02 19:59:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 94.306 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 94.306 ms  
Loss rate: 0.13%

Run 3: Report of SReAM — Data Link



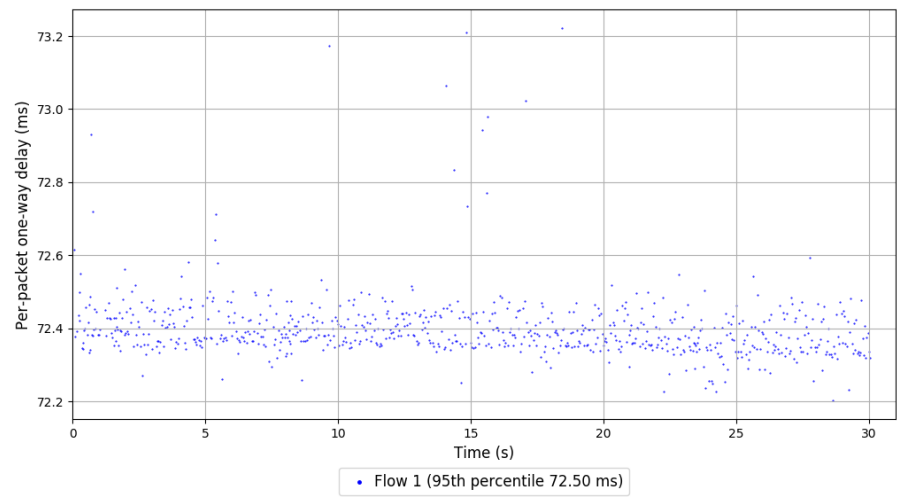
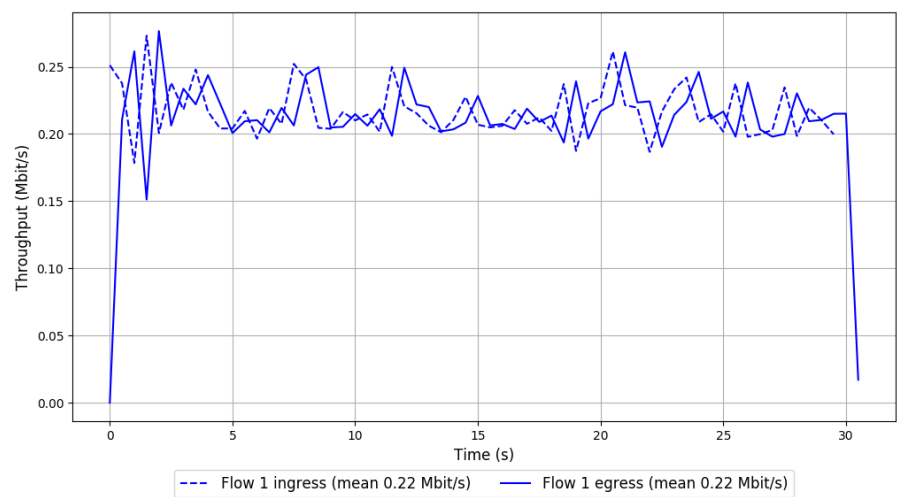


Run 4: Statistics of SCReAM

Start at: 2019-10-02 19:13:40  
End at: 2019-10-02 19:14:10  
Local clock offset: -6.271 ms  
Remote clock offset: 14.402 ms

# Below is generated by plot.py at 2019-10-02 19:59:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 72.498 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 72.498 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

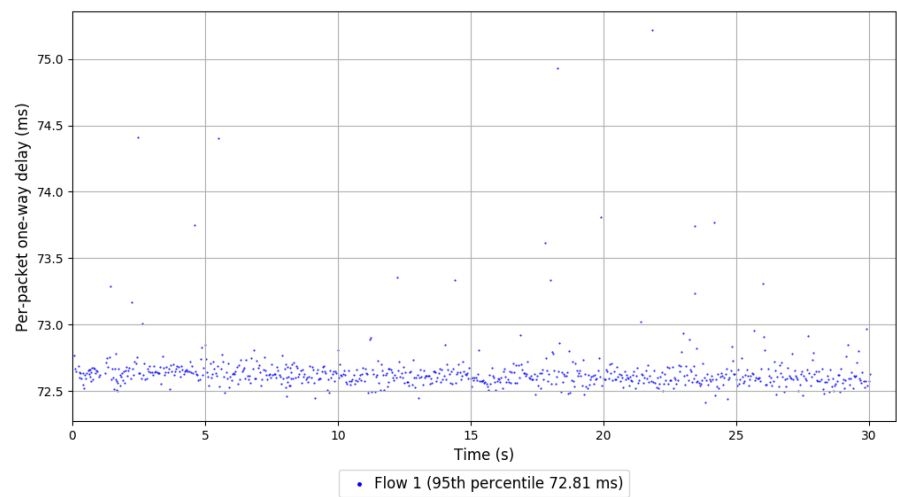
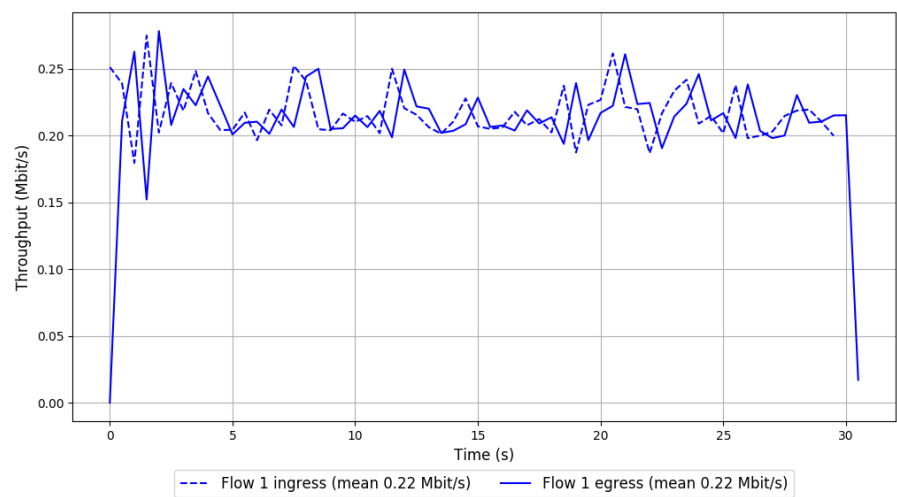


Run 5: Statistics of SCReAM

Start at: 2019-10-02 19:41:54  
End at: 2019-10-02 19:42:24  
Local clock offset: -5.655 ms  
Remote clock offset: 19.057 ms

# Below is generated by plot.py at 2019-10-02 19:59:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 72.805 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 72.805 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-10-02 17:38:29

End at: 2019-10-02 17:39:00

Local clock offset: -6.722 ms

Remote clock offset: 1.054 ms

# Below is generated by plot.py at 2019-10-02 19:59:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.55 Mbit/s

95th percentile per-packet one-way delay: 77.785 ms

Loss rate: 0.00%

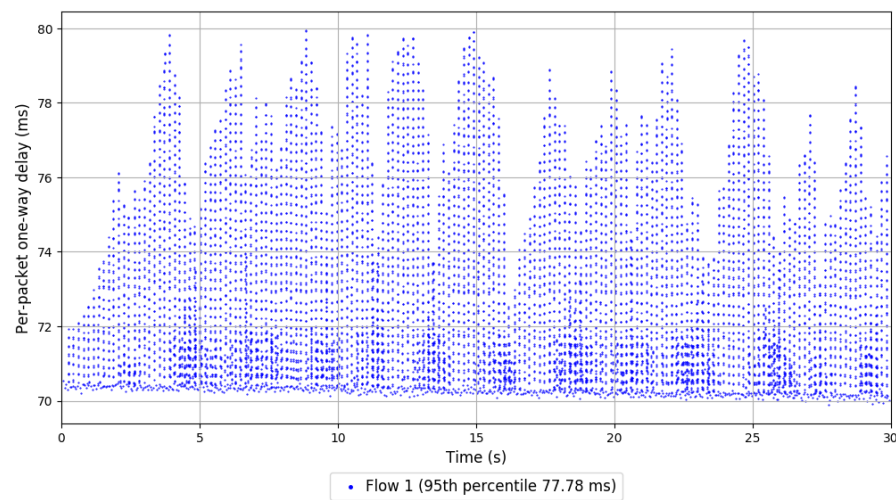
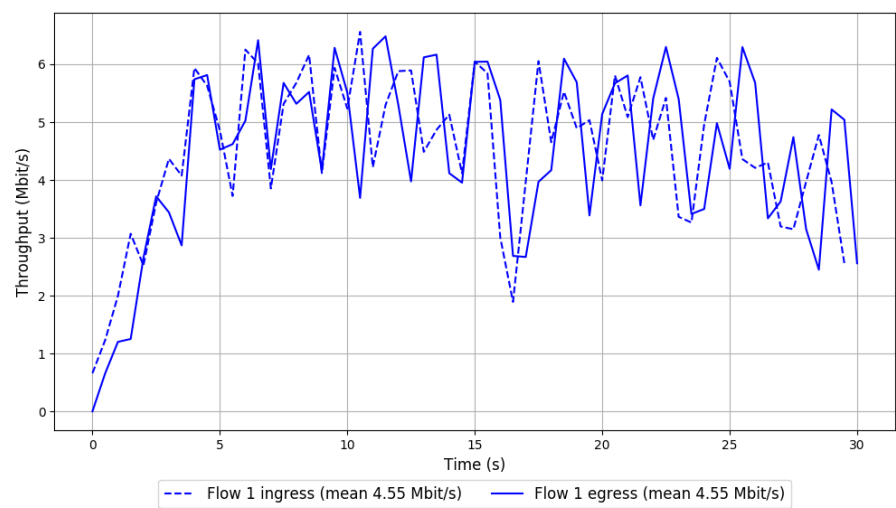
-- Flow 1:

Average throughput: 4.55 Mbit/s

95th percentile per-packet one-way delay: 77.785 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-10-02 18:06:41

End at: 2019-10-02 18:07:11

Local clock offset: -6.575 ms

Remote clock offset: 6.005 ms

# Below is generated by plot.py at 2019-10-02 19:59:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.83 Mbit/s

95th percentile per-packet one-way delay: 78.621 ms

Loss rate: 0.00%

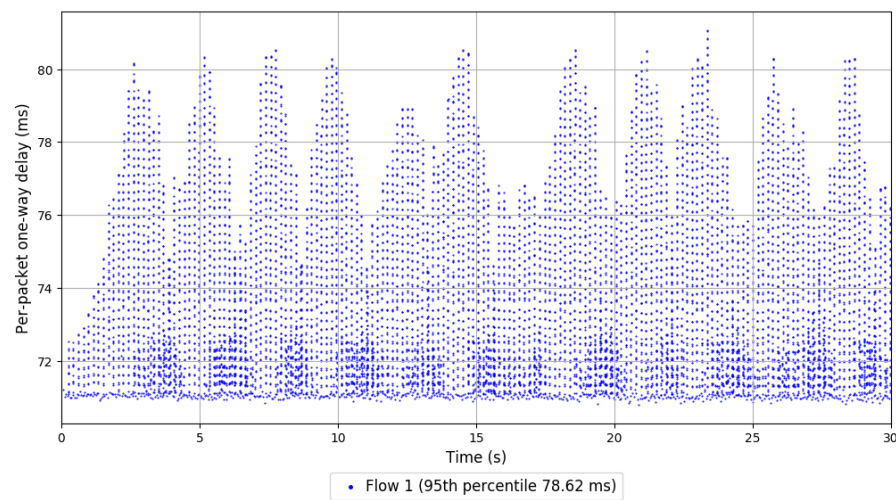
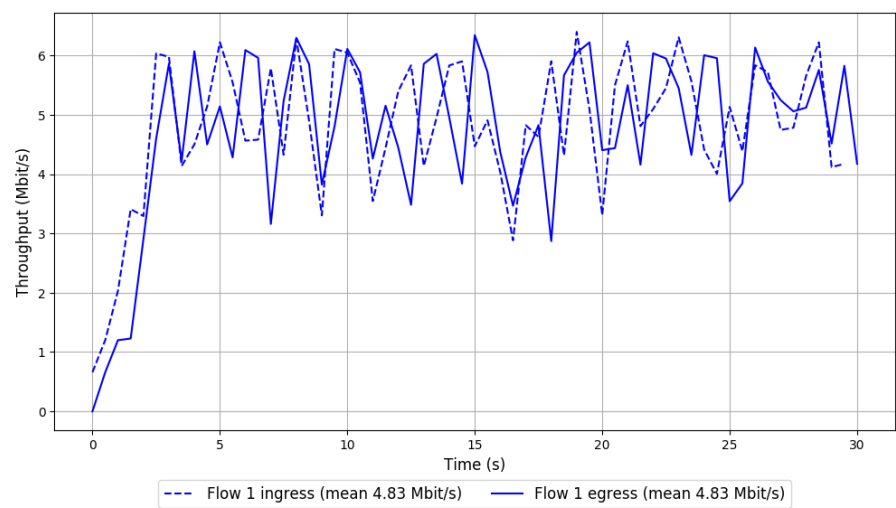
-- Flow 1:

Average throughput: 4.83 Mbit/s

95th percentile per-packet one-way delay: 78.621 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



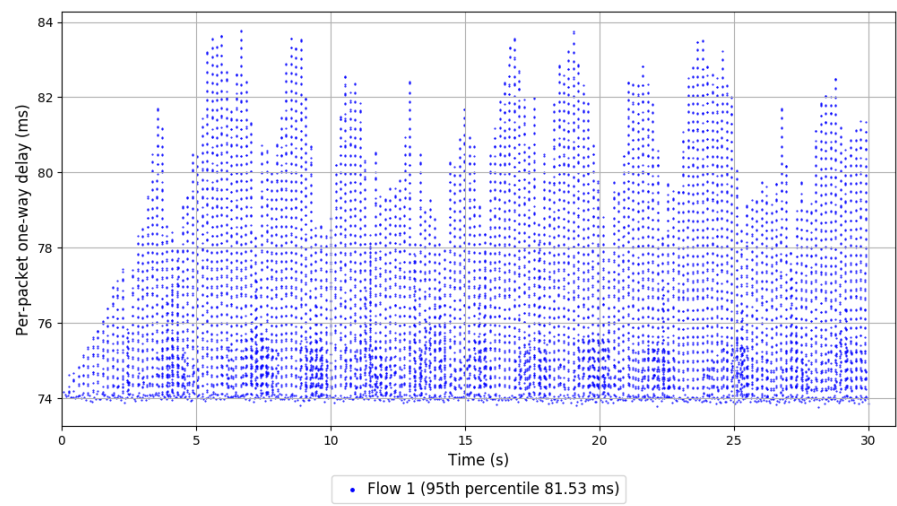
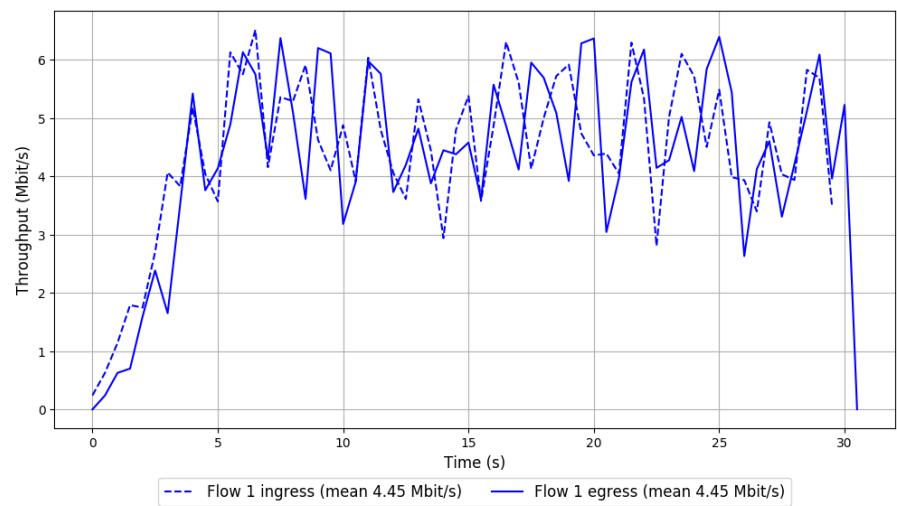


Run 3: Statistics of Sprout

Start at: 2019-10-02 18:34:59  
End at: 2019-10-02 18:35:29  
Local clock offset: -7.357 ms  
Remote clock offset: 11.426 ms

# Below is generated by plot.py at 2019-10-02 19:59:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 4.45 Mbit/s  
95th percentile per-packet one-way delay: 81.531 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 4.45 Mbit/s  
95th percentile per-packet one-way delay: 81.531 ms  
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

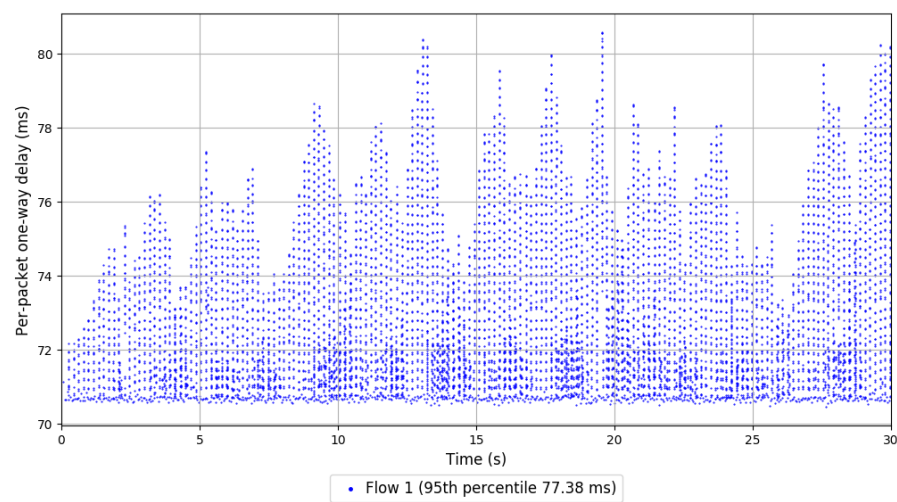
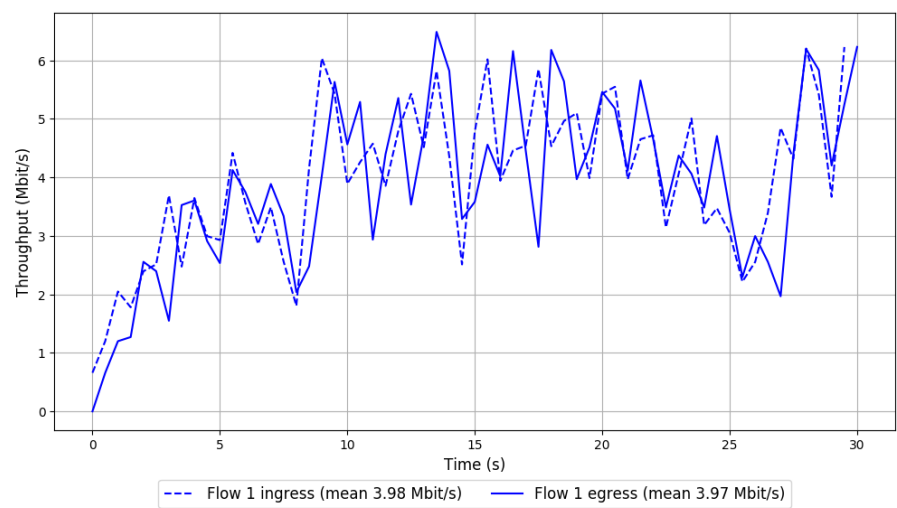


Run 4: Statistics of Sprout

Start at: 2019-10-02 19:03:15  
End at: 2019-10-02 19:03:45  
Local clock offset: -6.813 ms  
Remote clock offset: 13.192 ms

# Below is generated by plot.py at 2019-10-02 19:59:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 3.97 Mbit/s  
95th percentile per-packet one-way delay: 77.377 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 3.97 Mbit/s  
95th percentile per-packet one-way delay: 77.377 ms  
Loss rate: 0.17%

Run 4: Report of Sprout — Data Link

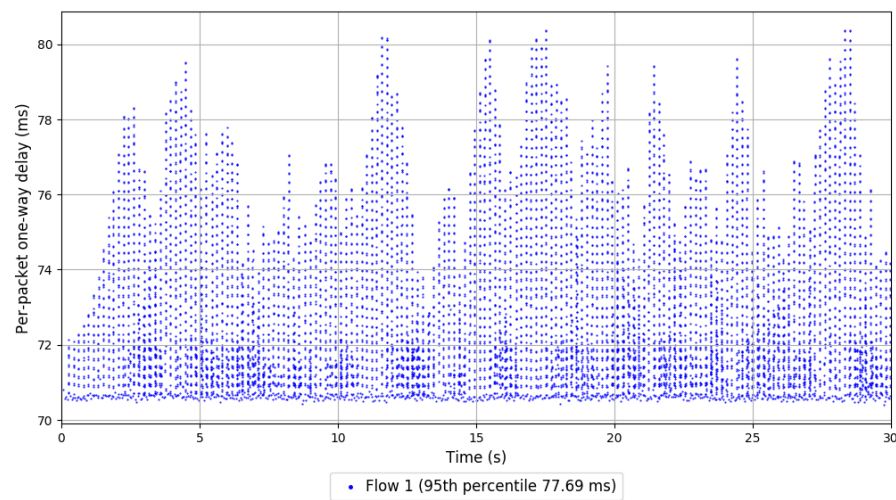
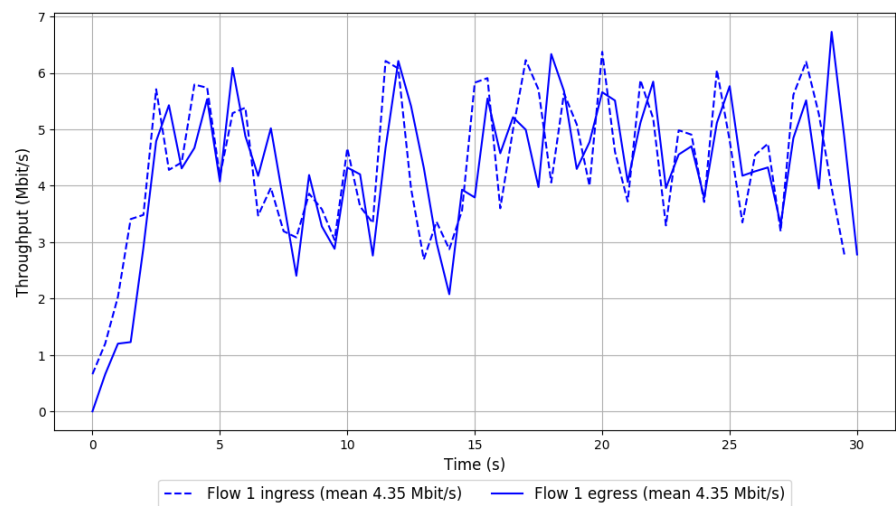


Run 5: Statistics of Sprout

Start at: 2019-10-02 19:31:31  
End at: 2019-10-02 19:32:01  
Local clock offset: -5.856 ms  
Remote clock offset: 16.428 ms

# Below is generated by plot.py at 2019-10-02 19:59:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 4.35 Mbit/s  
95th percentile per-packet one-way delay: 77.694 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 4.35 Mbit/s  
95th percentile per-packet one-way delay: 77.694 ms  
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

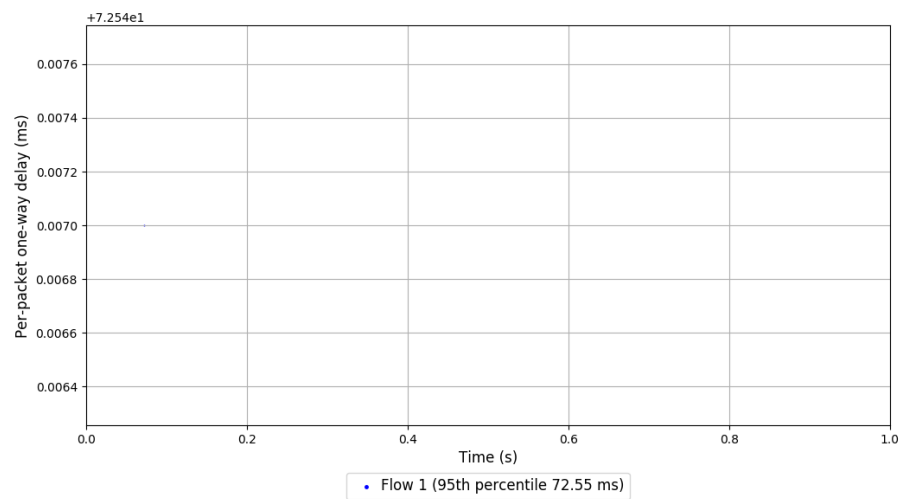
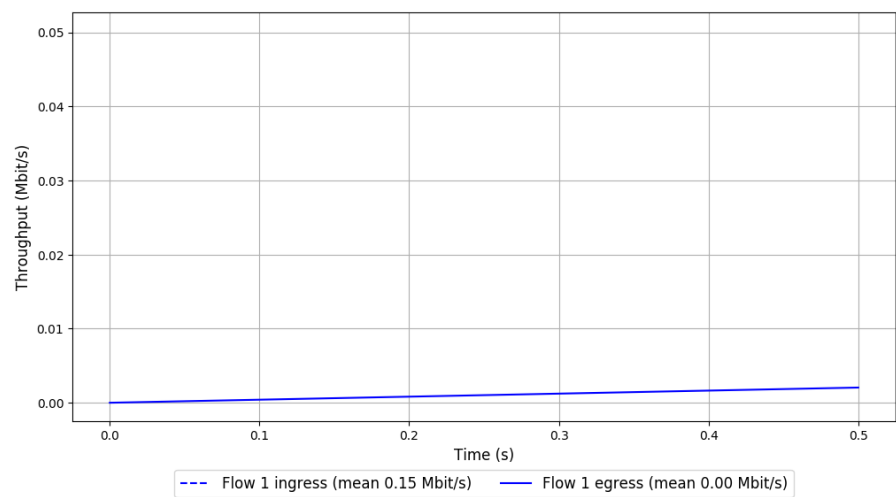
Start at: 2019-10-02 17:41:59

End at: 2019-10-02 17:42:29

Local clock offset: -7.624 ms

Remote clock offset: 3.932 ms

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





Run 2: Statistics of TaoVA-100x

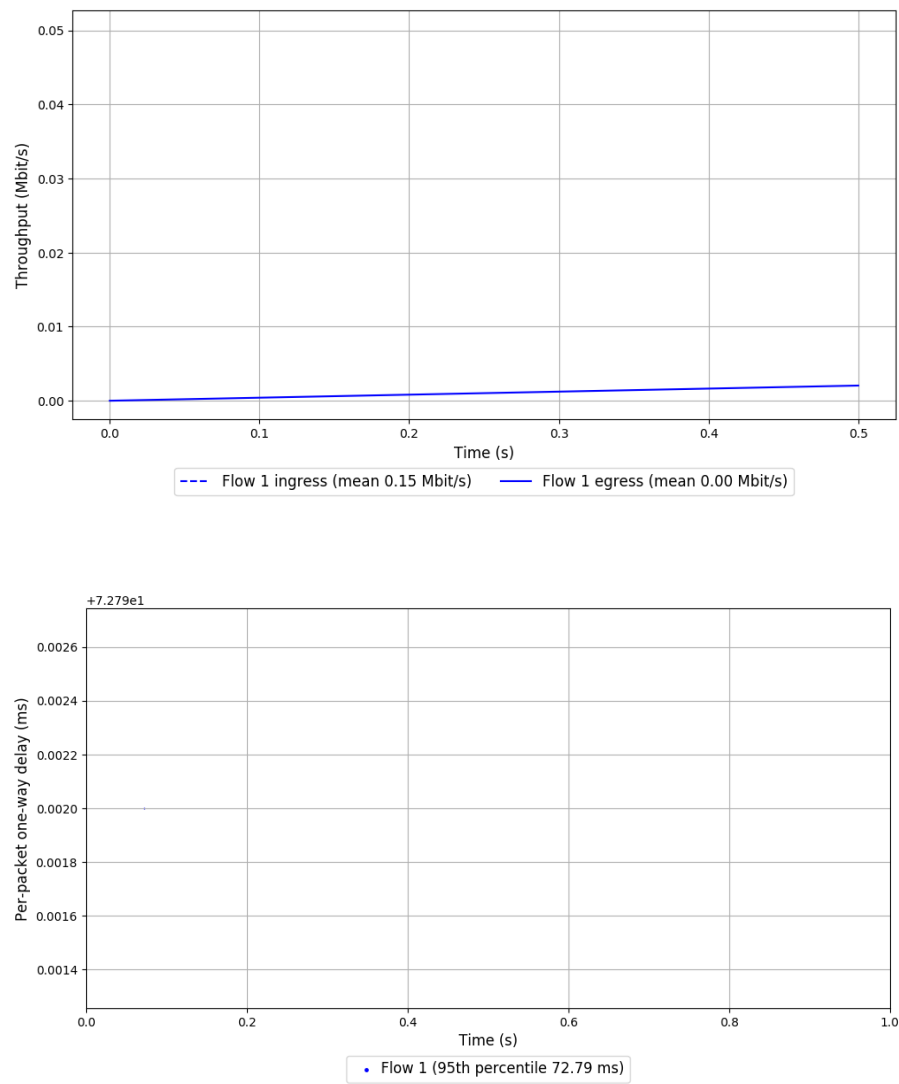
Start at: 2019-10-02 18:10:15

End at: 2019-10-02 18:10:45

Local clock offset: -6.563 ms

Remote clock offset: 8.069 ms

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



Run 3: Statistics of TaoVA-100x

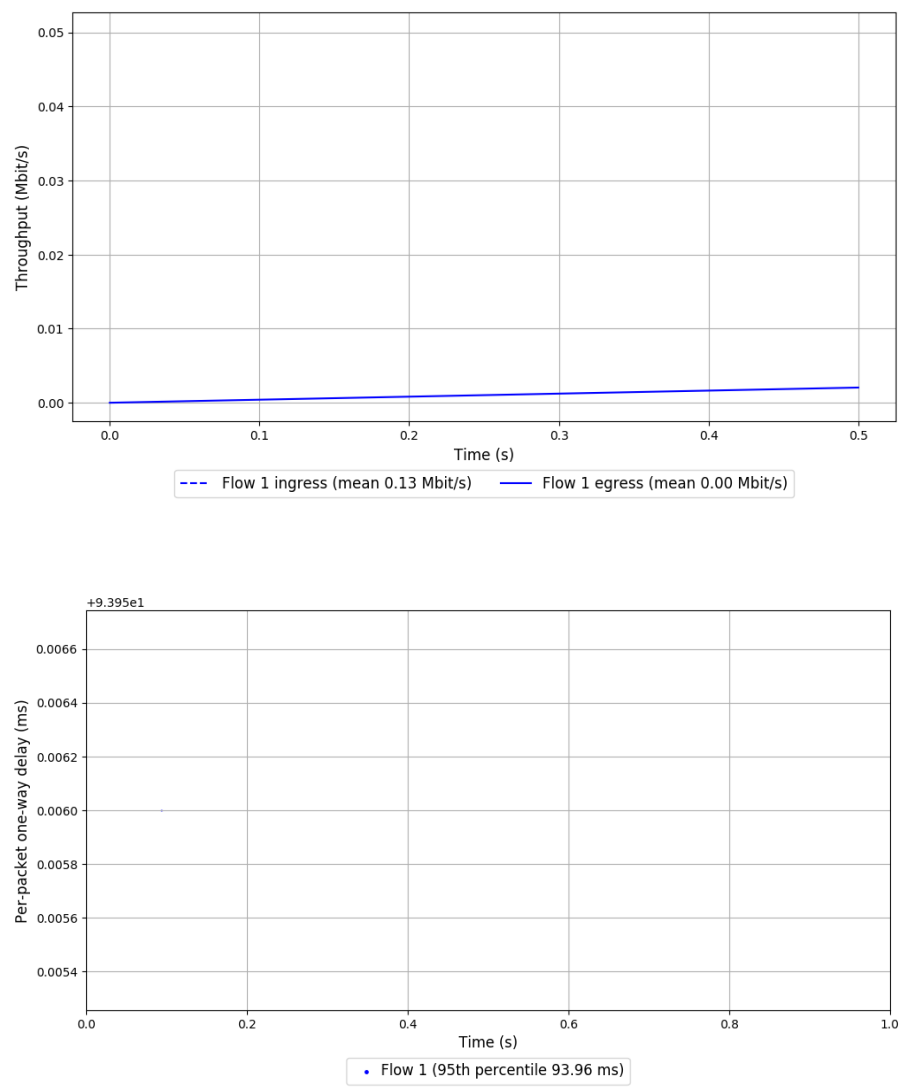
Start at: 2019-10-02 18:38:31

End at: 2019-10-02 18:39:02

Local clock offset: -7.467 ms

Remote clock offset: 11.899 ms

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



Run 4: Statistics of TaoVA-100x

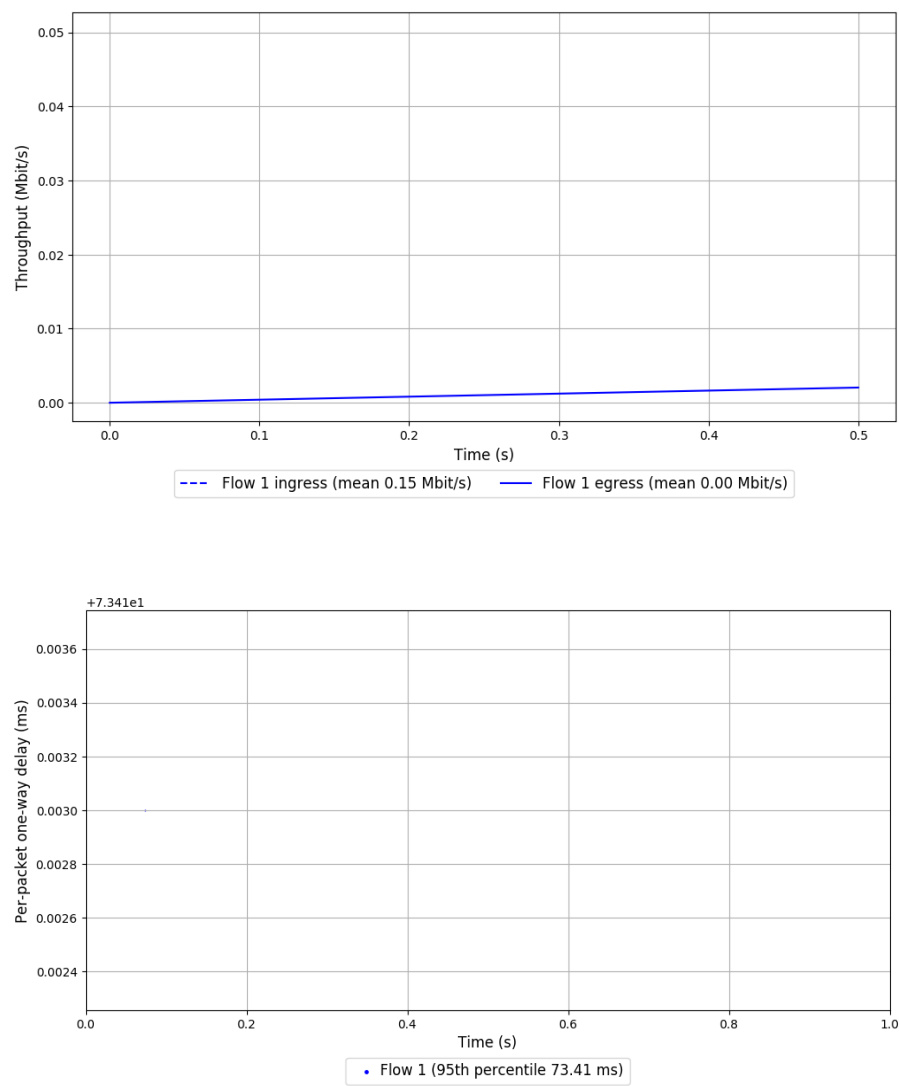
Start at: 2019-10-02 19:06:45

End at: 2019-10-02 19:07:15

Local clock offset: -6.512 ms

Remote clock offset: 13.597 ms

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



Run 5: Statistics of TaoVA-100x

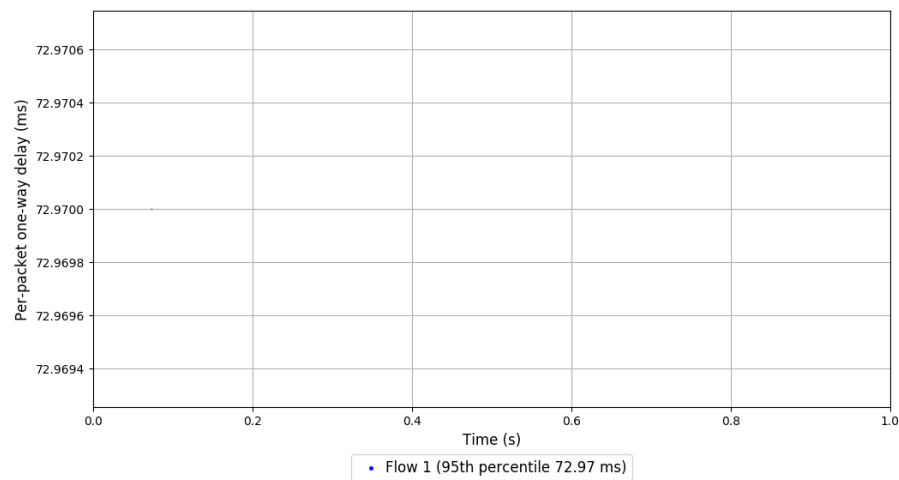
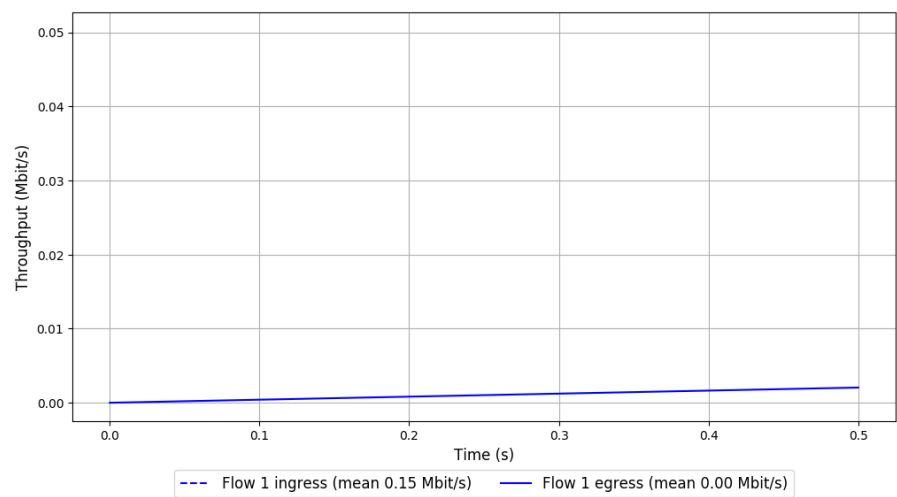
Start at: 2019-10-02 19:35:00

End at: 2019-10-02 19:35:30

Local clock offset: -5.804 ms

Remote clock offset: 18.517 ms

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





Run 1: Statistics of TCP Vegas

Start at: 2019-10-02 17:47:44

End at: 2019-10-02 17:48:14

Local clock offset: -7.474 ms

Remote clock offset: 3.299 ms

# Below is generated by plot.py at 2019-10-02 19:59:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.55 Mbit/s

95th percentile per-packet one-way delay: 72.535 ms

Loss rate: 0.00%

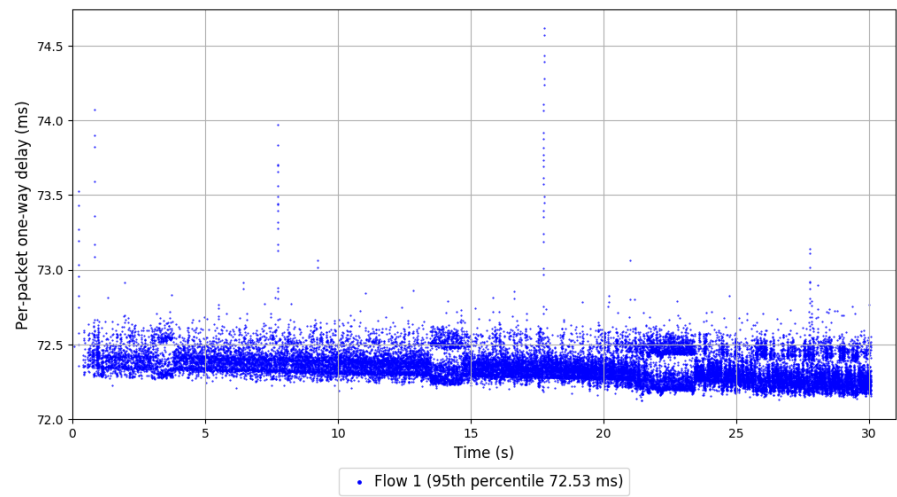
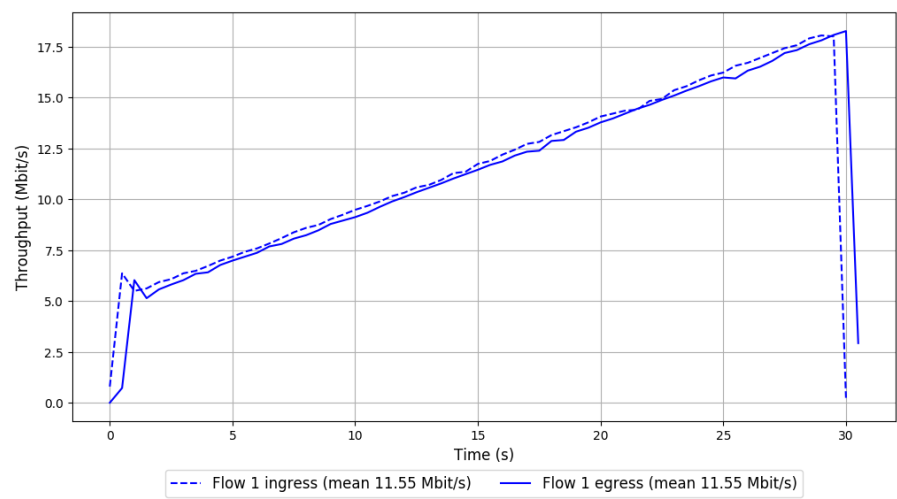
-- Flow 1:

Average throughput: 11.55 Mbit/s

95th percentile per-packet one-way delay: 72.535 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-10-02 18:15:59

End at: 2019-10-02 18:16:29

Local clock offset: -6.749 ms

Remote clock offset: 7.165 ms

# Below is generated by plot.py at 2019-10-02 19:59:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.72 Mbit/s

95th percentile per-packet one-way delay: 73.301 ms

Loss rate: 0.42%

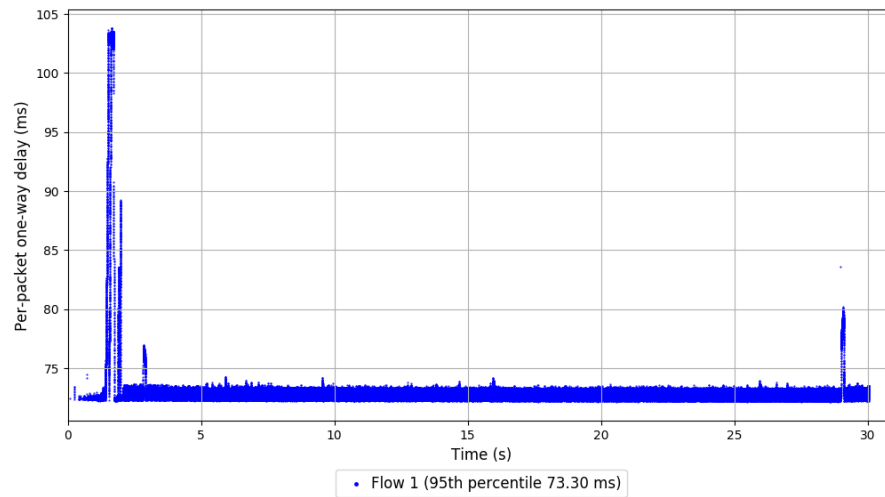
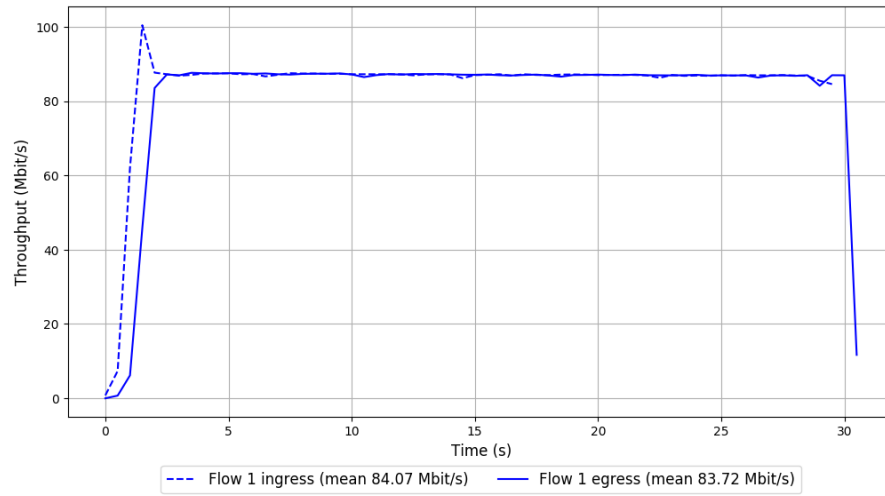
-- Flow 1:

Average throughput: 83.72 Mbit/s

95th percentile per-packet one-way delay: 73.301 ms

Loss rate: 0.42%

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

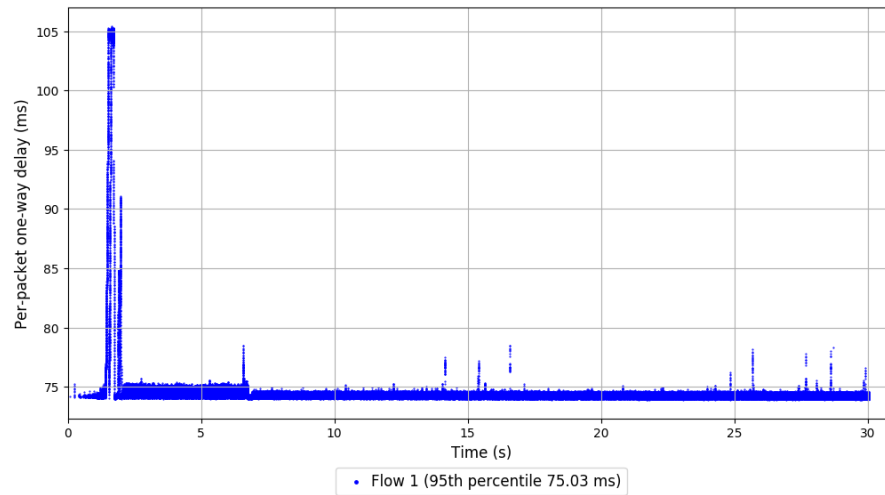
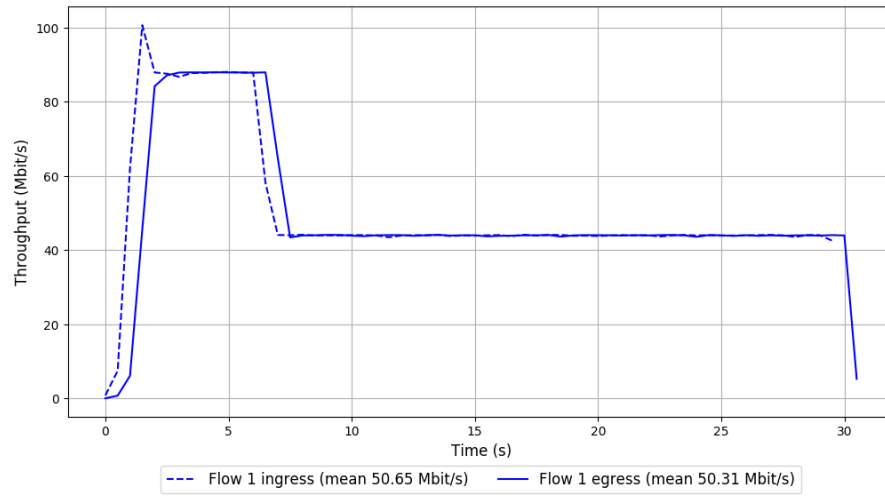


Run 3: Statistics of TCP Vegas

Start at: 2019-10-02 18:44:16  
End at: 2019-10-02 18:44:46  
Local clock offset: -7.783 ms  
Remote clock offset: 12.644 ms

# Below is generated by plot.py at 2019-10-02 19:59:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.31 Mbit/s  
95th percentile per-packet one-way delay: 75.027 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 50.31 Mbit/s  
95th percentile per-packet one-way delay: 75.027 ms  
Loss rate: 0.68%

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

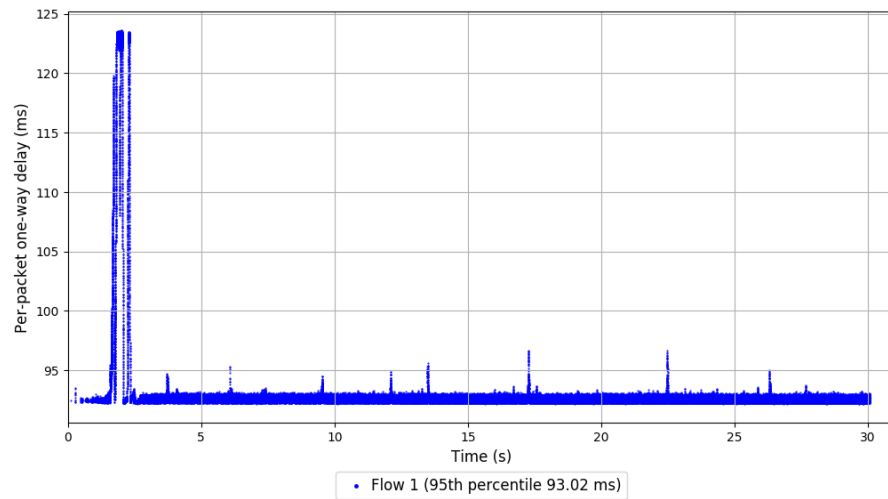
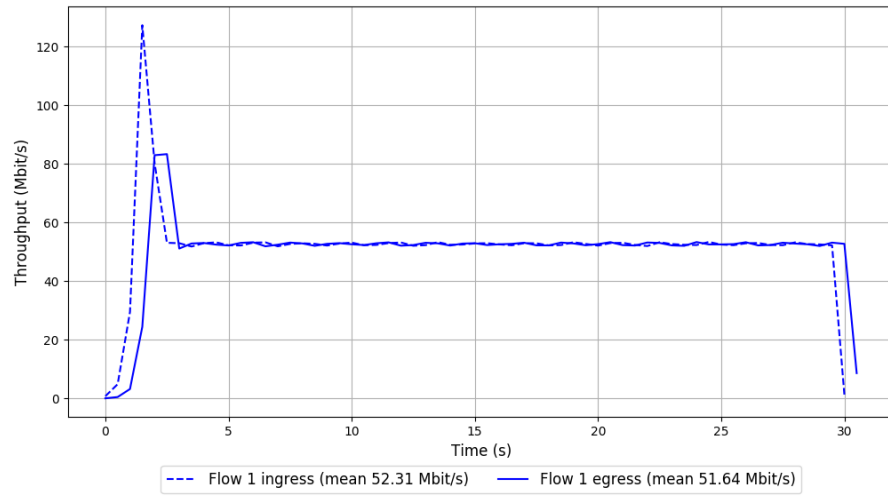


Run 4: Statistics of TCP Vegas

Start at: 2019-10-02 19:12:29  
End at: 2019-10-02 19:12:59  
Local clock offset: -6.298 ms  
Remote clock offset: 14.297 ms

# Below is generated by plot.py at 2019-10-02 19:59:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 51.64 Mbit/s  
95th percentile per-packet one-way delay: 93.019 ms  
Loss rate: 1.34%  
-- Flow 1:  
Average throughput: 51.64 Mbit/s  
95th percentile per-packet one-way delay: 93.019 ms  
Loss rate: 1.34%

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



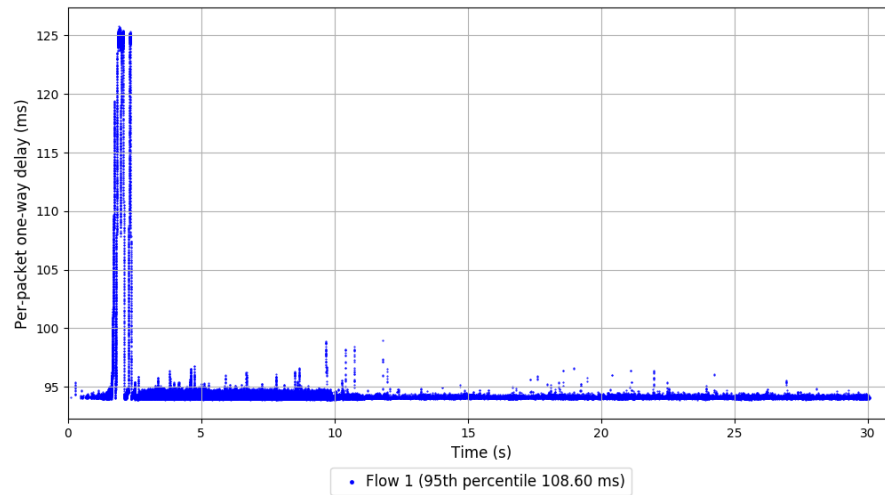
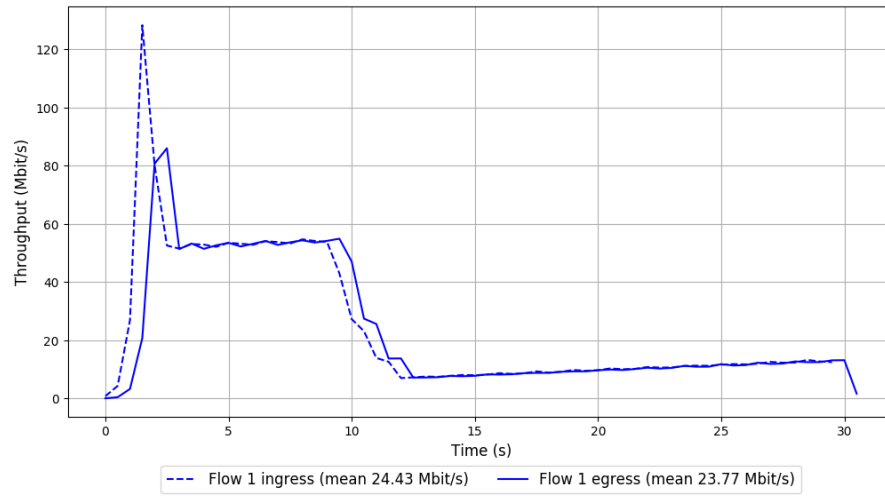


Run 5: Statistics of TCP Vegas

Start at: 2019-10-02 19:40:45  
End at: 2019-10-02 19:41:15  
Local clock offset: -5.671 ms  
Remote clock offset: 19.227 ms

# Below is generated by plot.py at 2019-10-02 19:59:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 23.77 Mbit/s  
95th percentile per-packet one-way delay: 108.598 ms  
Loss rate: 2.76%  
-- Flow 1:  
Average throughput: 23.77 Mbit/s  
95th percentile per-packet one-way delay: 108.598 ms  
Loss rate: 2.76%

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



Run 1: Statistics of Verus

Start at: 2019-10-02 17:39:37

End at: 2019-10-02 17:40:07

Local clock offset: -7.122 ms

Remote clock offset: 1.572 ms

# Below is generated by plot.py at 2019-10-02 19:59:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 34.32 Mbit/s

95th percentile per-packet one-way delay: 101.426 ms

Loss rate: 26.86%

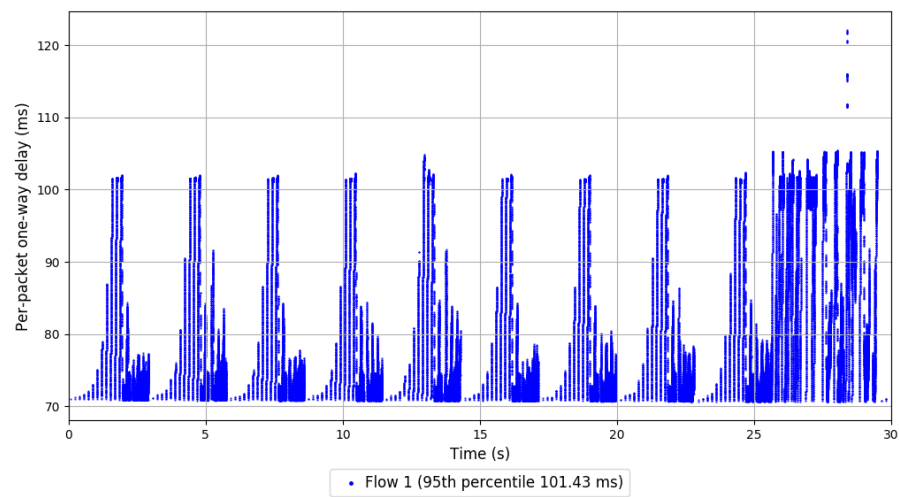
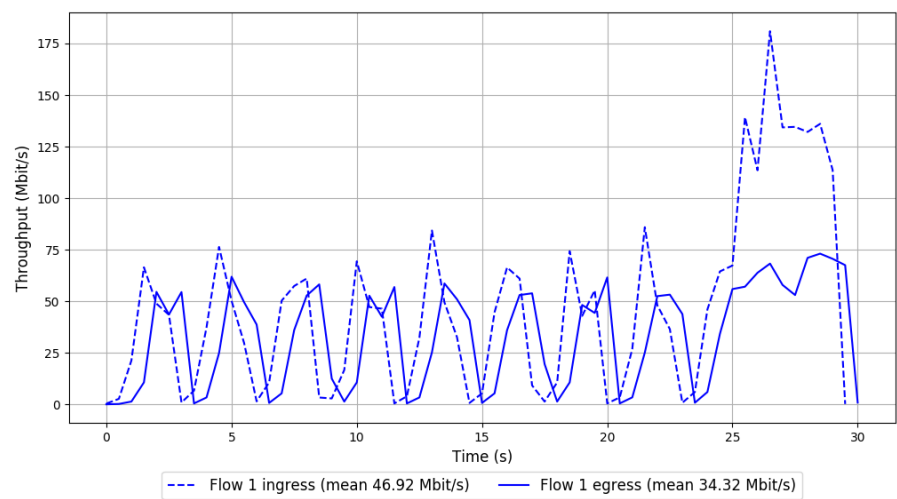
-- Flow 1:

Average throughput: 34.32 Mbit/s

95th percentile per-packet one-way delay: 101.426 ms

Loss rate: 26.86%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-10-02 18:07:49

End at: 2019-10-02 18:08:19

Local clock offset: -6.572 ms

Remote clock offset: 5.995 ms

# Below is generated by plot.py at 2019-10-02 20:00:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.82 Mbit/s

95th percentile per-packet one-way delay: 107.071 ms

Loss rate: 84.97%

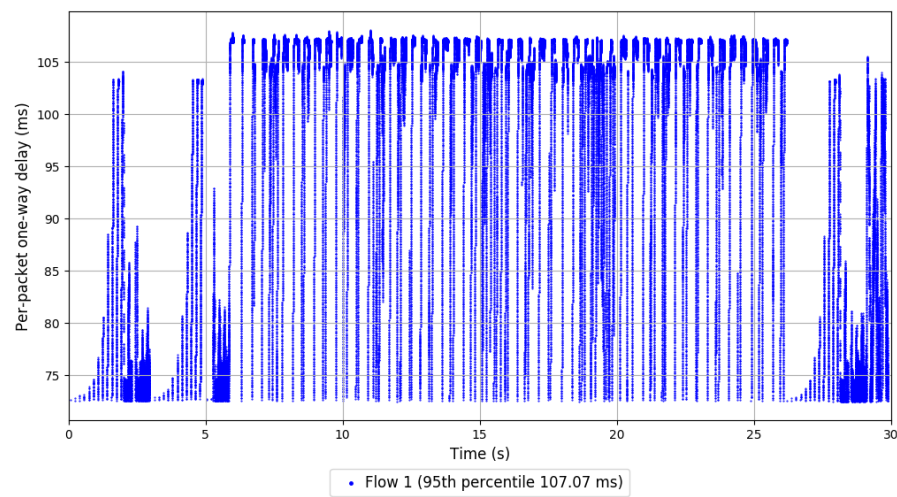
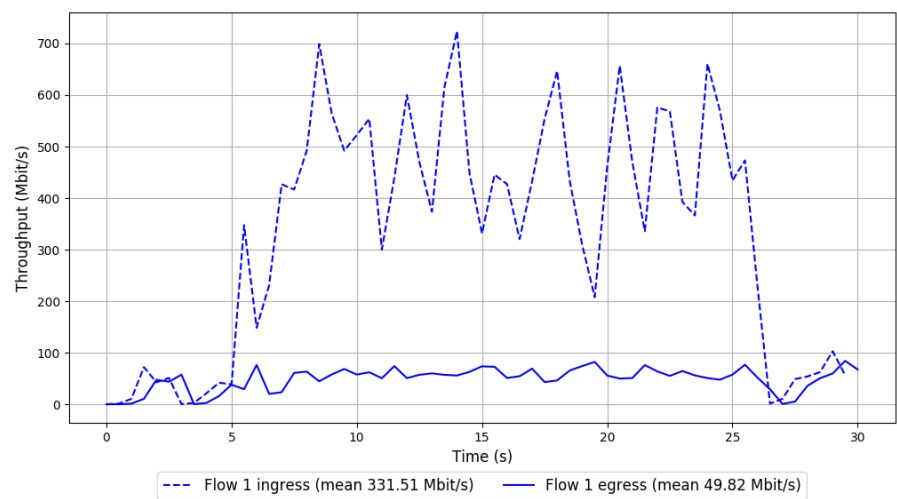
-- Flow 1:

Average throughput: 49.82 Mbit/s

95th percentile per-packet one-way delay: 107.071 ms

Loss rate: 84.97%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-10-02 18:36:07

End at: 2019-10-02 18:36:37

Local clock offset: -7.377 ms

Remote clock offset: 9.84 ms

# Below is generated by plot.py at 2019-10-02 20:00:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 47.77 Mbit/s

95th percentile per-packet one-way delay: 106.777 ms

Loss rate: 77.21%

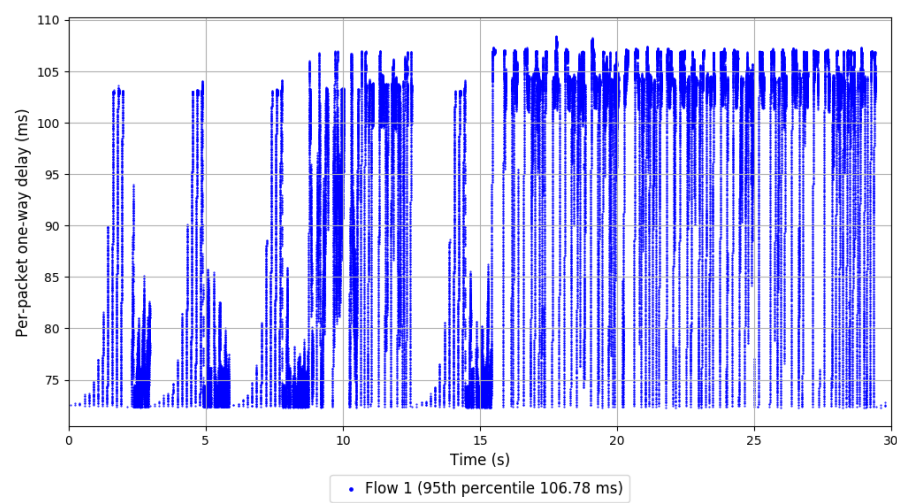
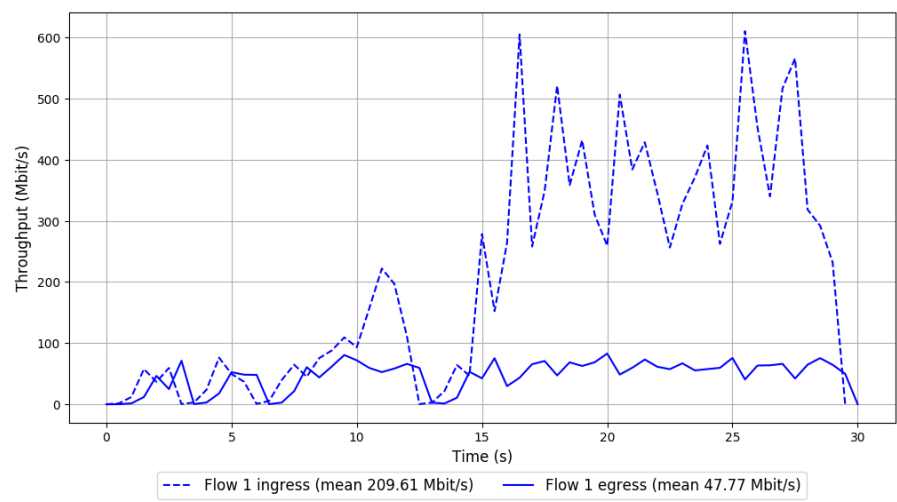
-- Flow 1:

Average throughput: 47.77 Mbit/s

95th percentile per-packet one-way delay: 106.777 ms

Loss rate: 77.21%

Run 3: Report of Verus — Data Link



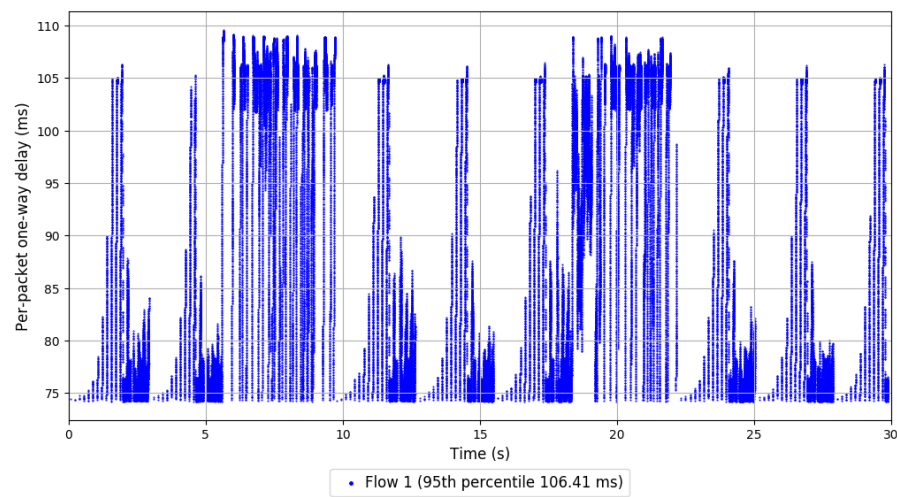
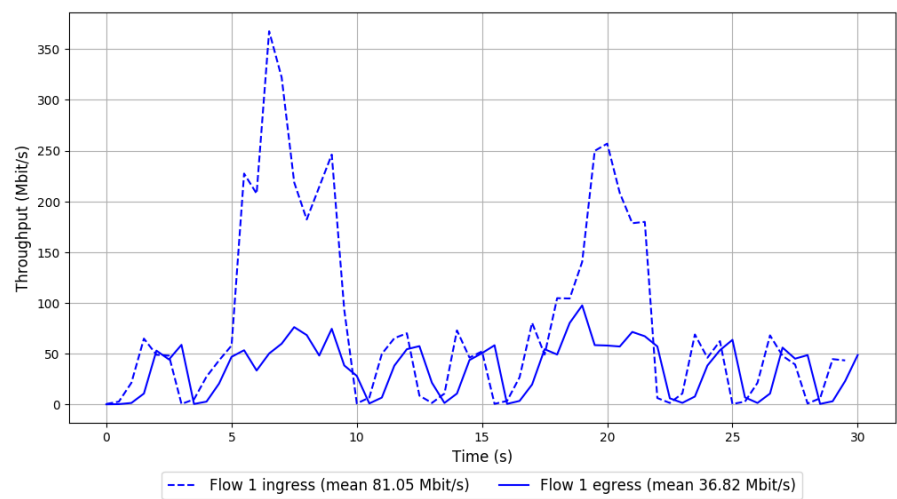


Run 4: Statistics of Verus

Start at: 2019-10-02 19:04:23  
End at: 2019-10-02 19:04:53  
Local clock offset: -6.716 ms  
Remote clock offset: 15.229 ms

# Below is generated by plot.py at 2019-10-02 20:00:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 36.82 Mbit/s  
95th percentile per-packet one-way delay: 106.407 ms  
Loss rate: 54.57%  
-- Flow 1:  
Average throughput: 36.82 Mbit/s  
95th percentile per-packet one-way delay: 106.407 ms  
Loss rate: 54.57%

Run 4: Report of Verus — Data Link

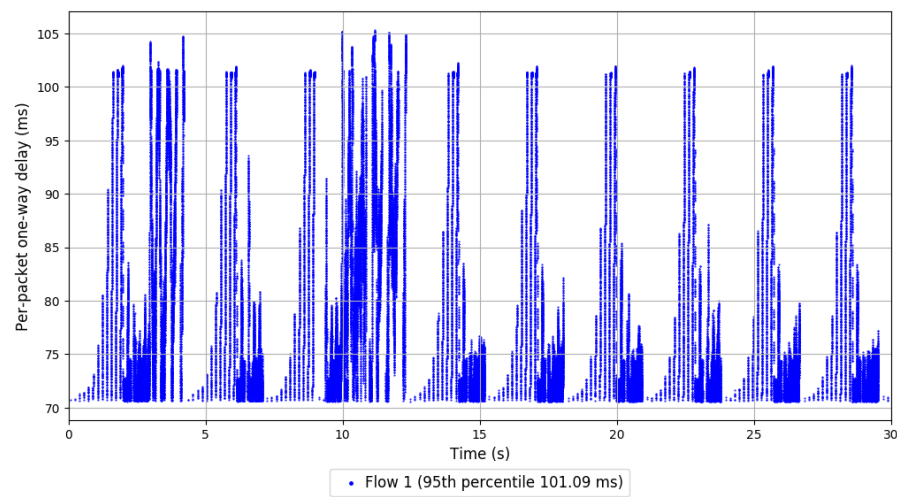
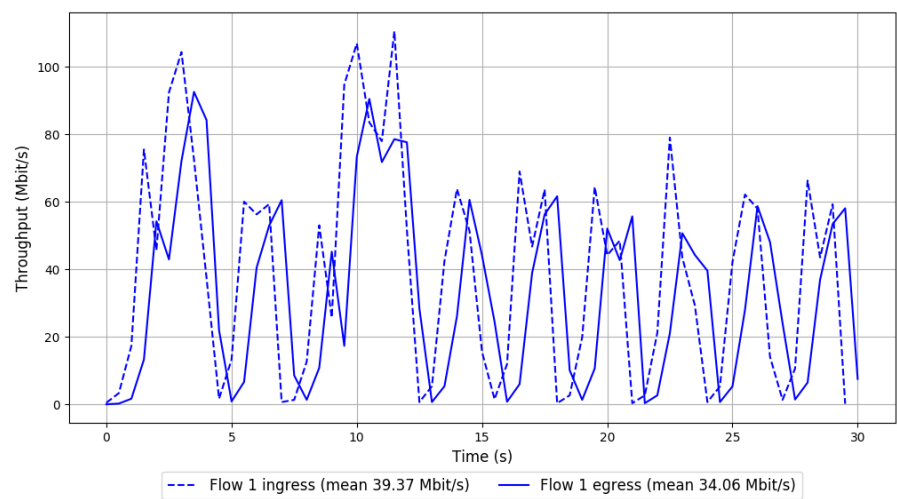


Run 5: Statistics of Verus

Start at: 2019-10-02 19:32:39  
End at: 2019-10-02 19:33:09  
Local clock offset: -5.828 ms  
Remote clock offset: 16.347 ms

# Below is generated by plot.py at 2019-10-02 20:00:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 34.06 Mbit/s  
95th percentile per-packet one-way delay: 101.093 ms  
Loss rate: 13.50%  
-- Flow 1:  
Average throughput: 34.06 Mbit/s  
95th percentile per-packet one-way delay: 101.093 ms  
Loss rate: 13.50%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-10-02 17:52:23

End at: 2019-10-02 17:52:53

Local clock offset: -7.809 ms

Remote clock offset: 5.563 ms

# Below is generated by plot.py at 2019-10-02 20:00:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 77.33 Mbit/s

95th percentile per-packet one-way delay: 98.190 ms

Loss rate: 0.10%

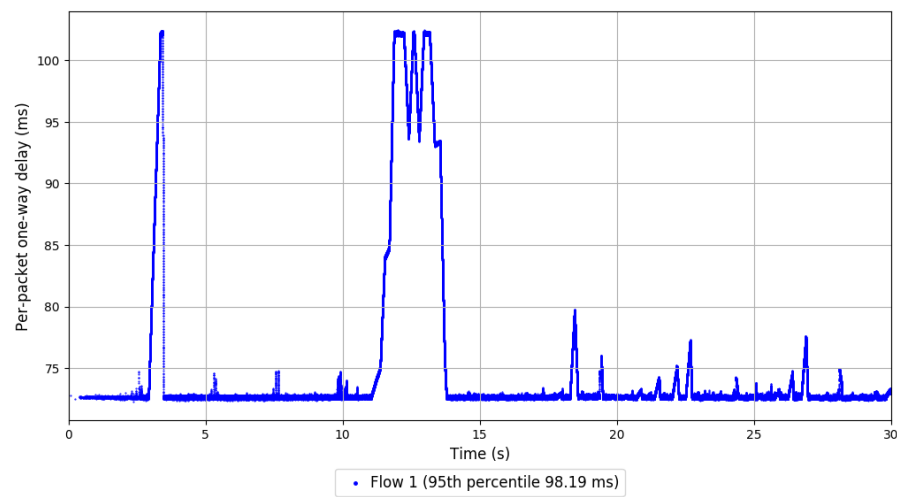
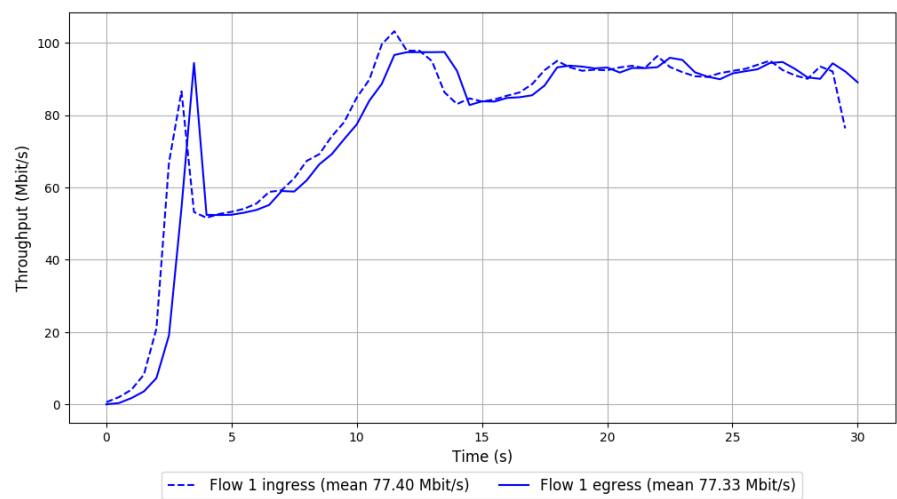
-- Flow 1:

Average throughput: 77.33 Mbit/s

95th percentile per-packet one-way delay: 98.190 ms

Loss rate: 0.10%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-10-02 18:20:41

End at: 2019-10-02 18:21:12

Local clock offset: -6.963 ms

Remote clock offset: 9.274 ms

# Below is generated by plot.py at 2019-10-02 20:00:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 75.08 Mbit/s

95th percentile per-packet one-way delay: 99.978 ms

Loss rate: 0.15%

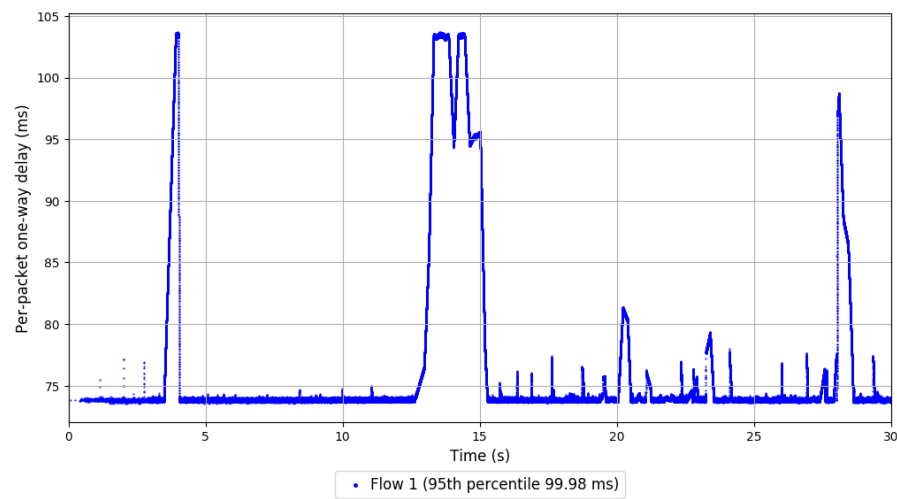
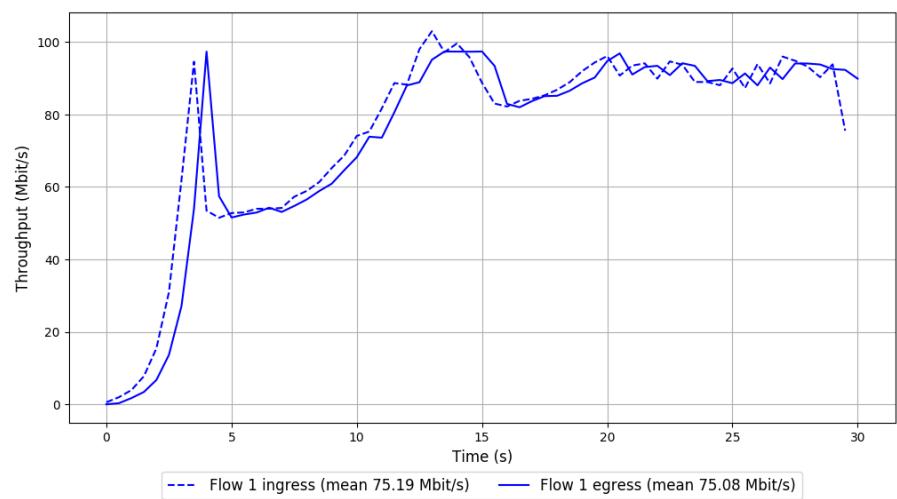
-- Flow 1:

Average throughput: 75.08 Mbit/s

95th percentile per-packet one-way delay: 99.978 ms

Loss rate: 0.15%

Run 2: Report of PCC-Vivace — Data Link



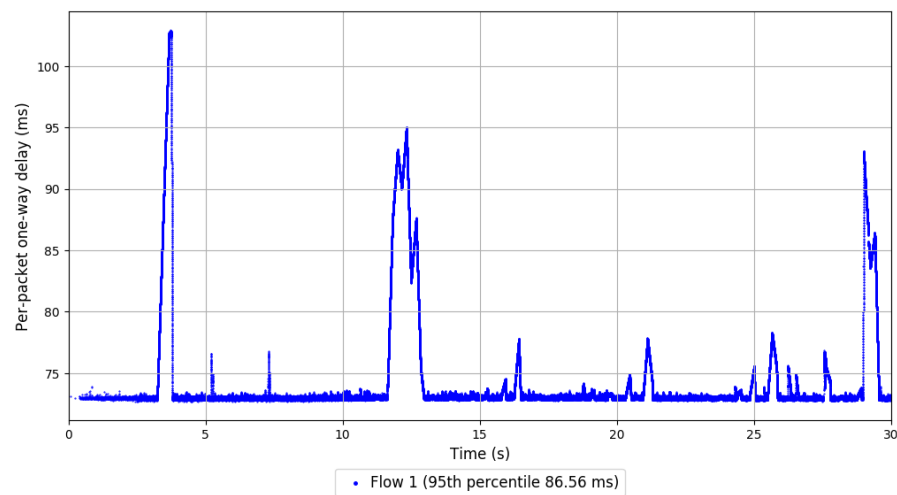
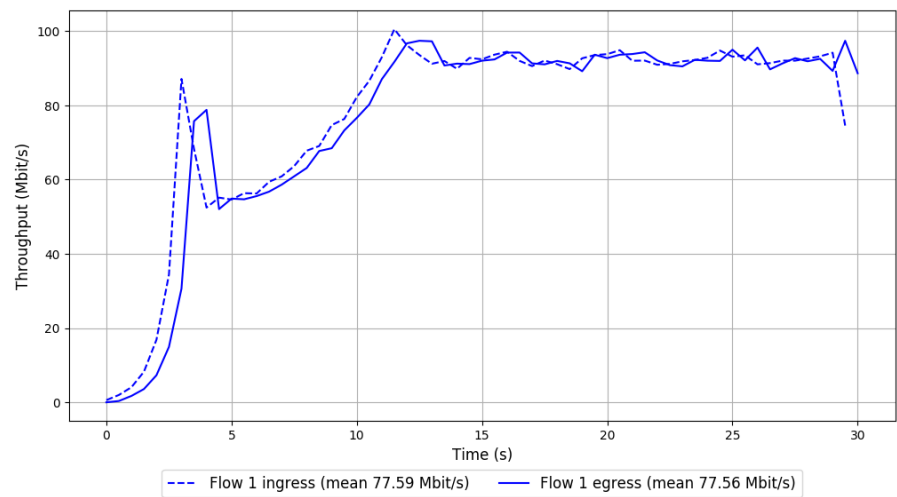


Run 3: Statistics of PCC-Vivace

Start at: 2019-10-02 18:48:57  
End at: 2019-10-02 18:49:27  
Local clock offset: -8.044 ms  
Remote clock offset: 13.286 ms

# Below is generated by plot.py at 2019-10-02 20:00:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 77.56 Mbit/s  
95th percentile per-packet one-way delay: 86.555 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 77.56 Mbit/s  
95th percentile per-packet one-way delay: 86.555 ms  
Loss rate: 0.04%

Run 3: Report of PCC-Vivace — Data Link

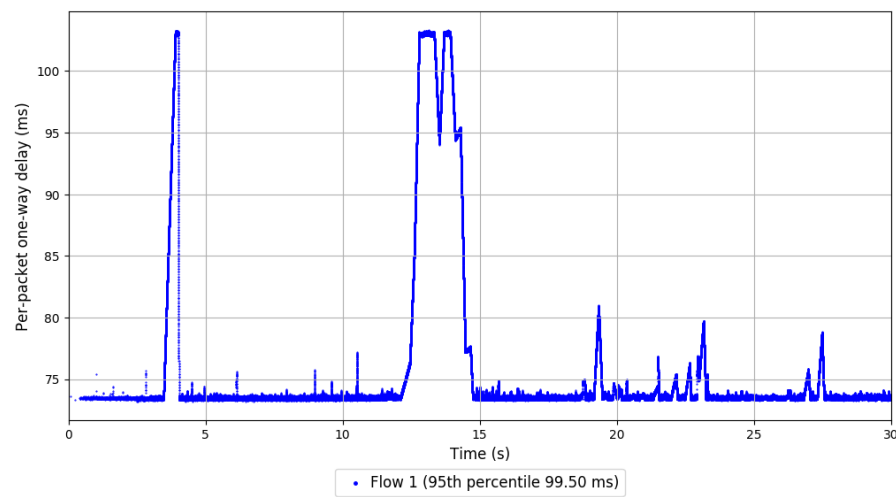
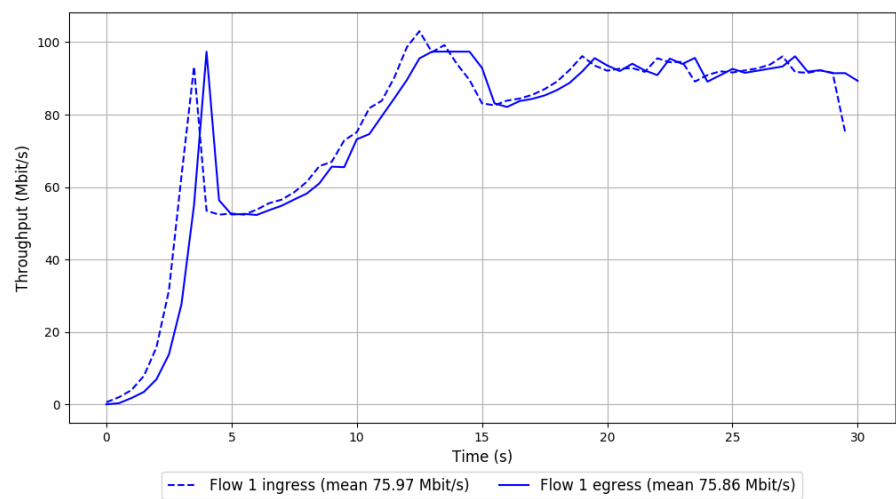


Run 4: Statistics of PCC-Vivace

Start at: 2019-10-02 19:17:12  
End at: 2019-10-02 19:17:42  
Local clock offset: -6.264 ms  
Remote clock offset: 16.532 ms

# Below is generated by plot.py at 2019-10-02 20:00:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 75.86 Mbit/s  
95th percentile per-packet one-way delay: 99.502 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 75.86 Mbit/s  
95th percentile per-packet one-way delay: 99.502 ms  
Loss rate: 0.14%

Run 4: Report of PCC-Vivace — Data Link

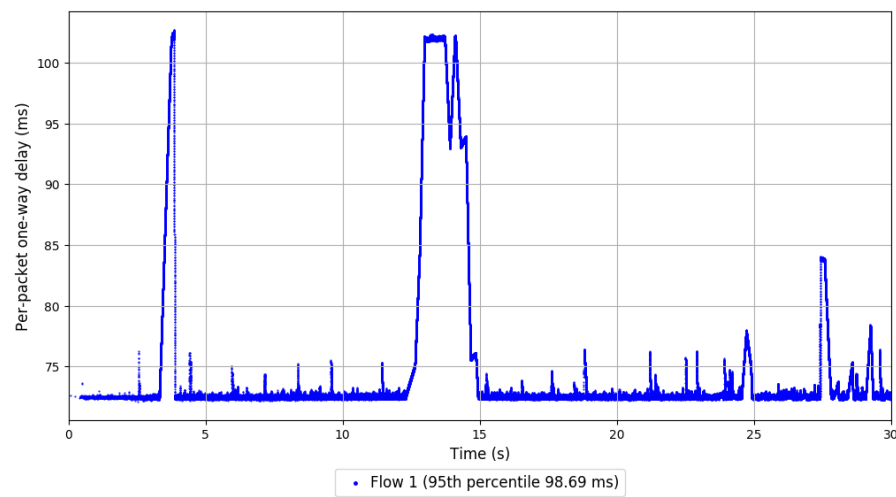
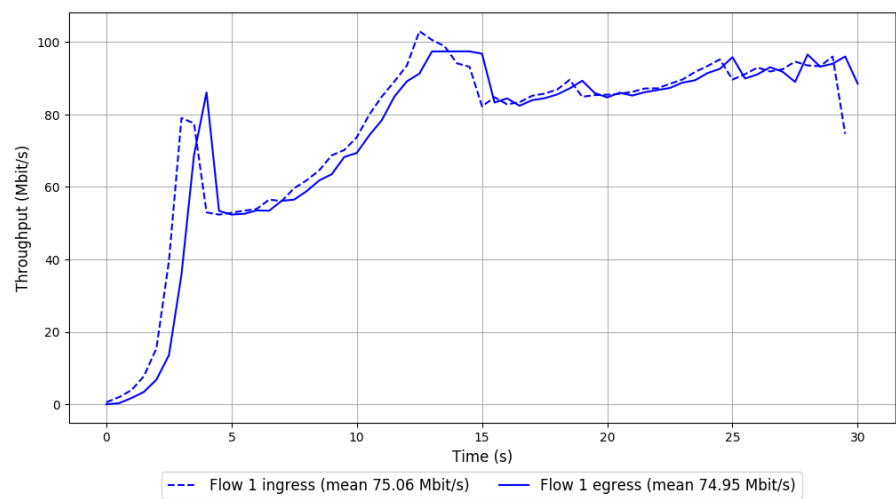


Run 5: Statistics of PCC-Vivace

Start at: 2019-10-02 19:45:25  
End at: 2019-10-02 19:45:55  
Local clock offset: -5.703 ms  
Remote clock offset: 18.011 ms

# Below is generated by plot.py at 2019-10-02 20:00:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 74.95 Mbit/s  
95th percentile per-packet one-way delay: 98.692 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 74.95 Mbit/s  
95th percentile per-packet one-way delay: 98.692 ms  
Loss rate: 0.14%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-10-02 17:44:16

End at: 2019-10-02 17:44:46

Local clock offset: -7.502 ms

Remote clock offset: 2.749 ms

# Below is generated by plot.py at 2019-10-02 20:00:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 73.323 ms

Loss rate: 0.00%

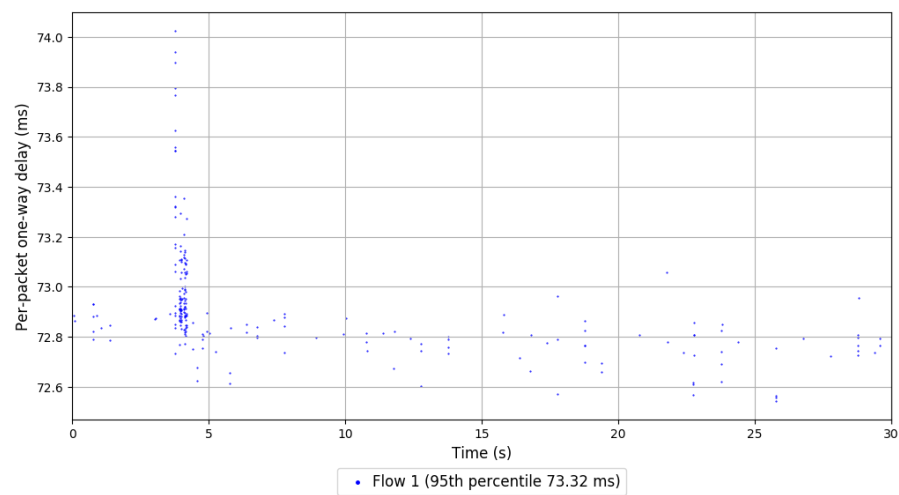
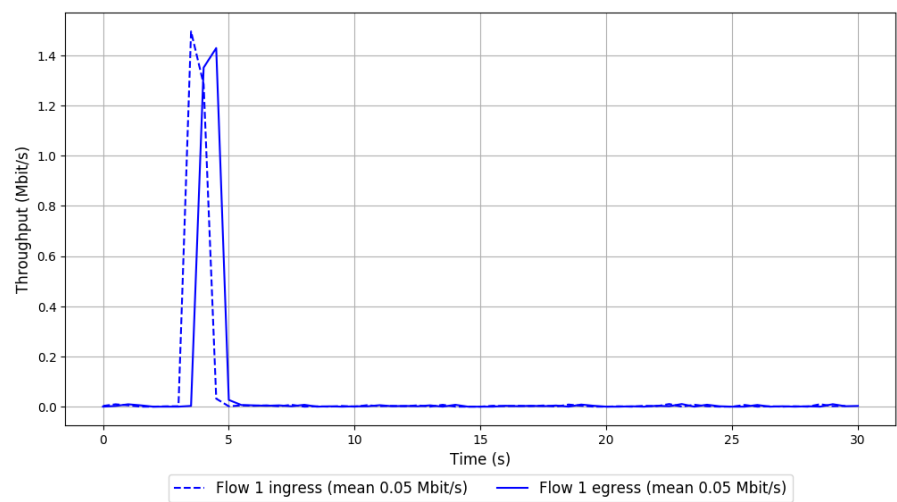
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 73.323 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link





Run 2: Statistics of WebRTC media

Start at: 2019-10-02 18:12:31

End at: 2019-10-02 18:13:01

Local clock offset: -6.615 ms

Remote clock offset: 6.469 ms

# Below is generated by plot.py at 2019-10-02 20:00:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 71.215 ms

Loss rate: 0.00%

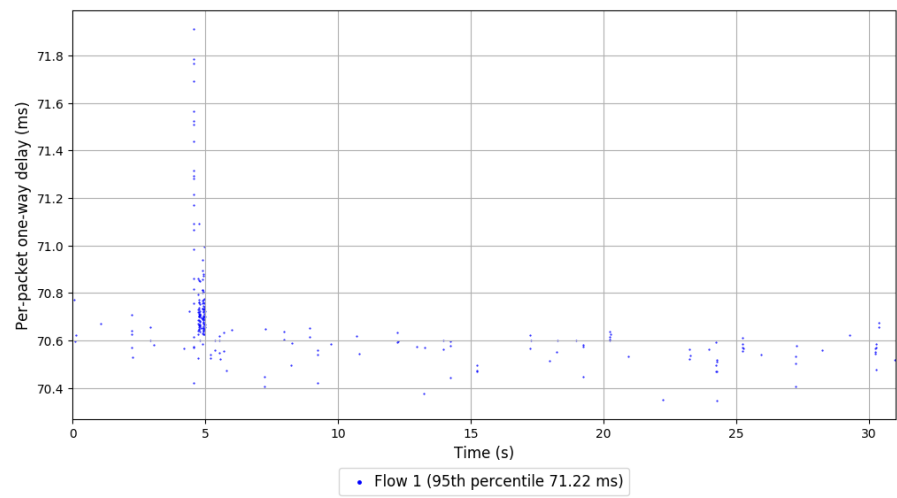
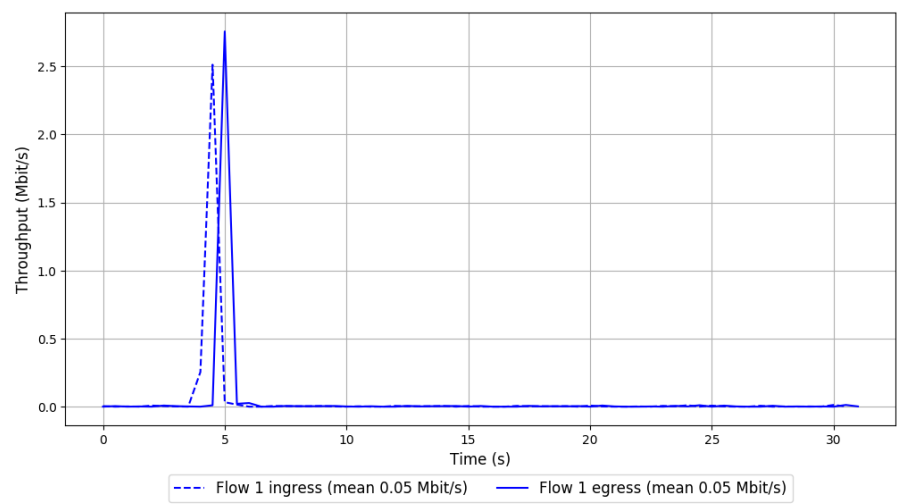
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 71.215 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

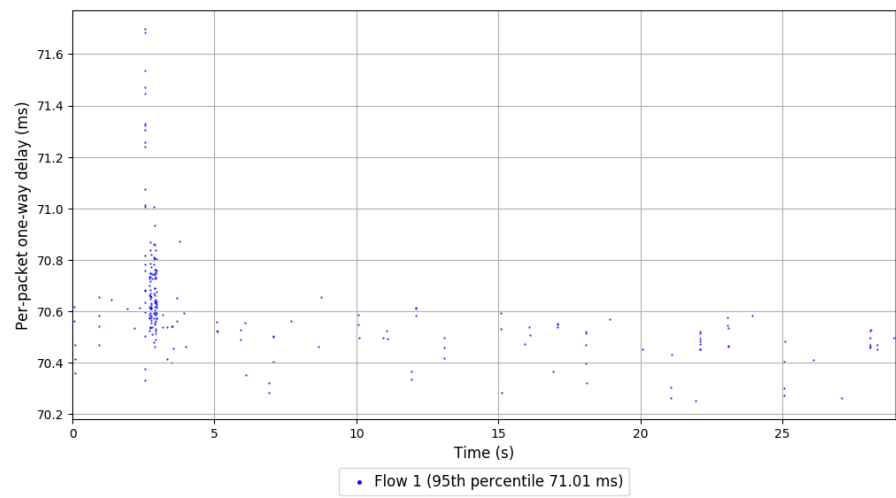
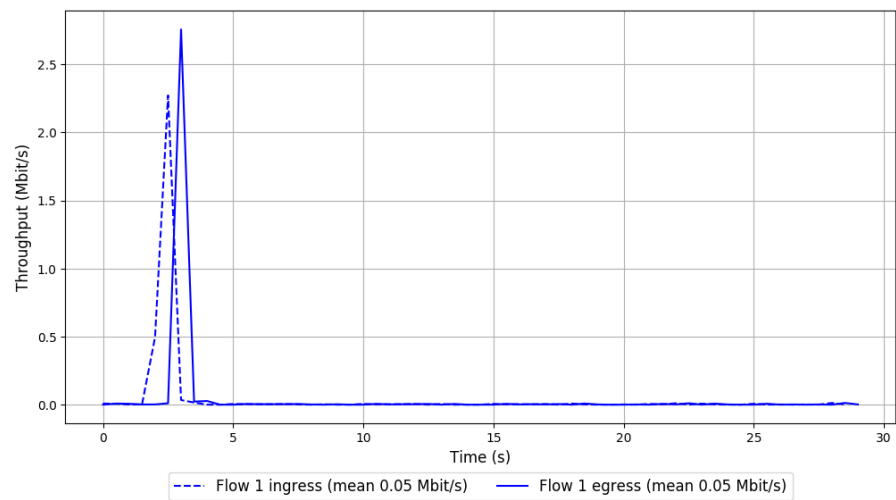


Run 3: Statistics of WebRTC media

Start at: 2019-10-02 18:40:48  
End at: 2019-10-02 18:41:18  
Local clock offset: -7.588 ms  
Remote clock offset: 10.367 ms

# Below is generated by plot.py at 2019-10-02 20:00:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 71.012 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 71.012 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

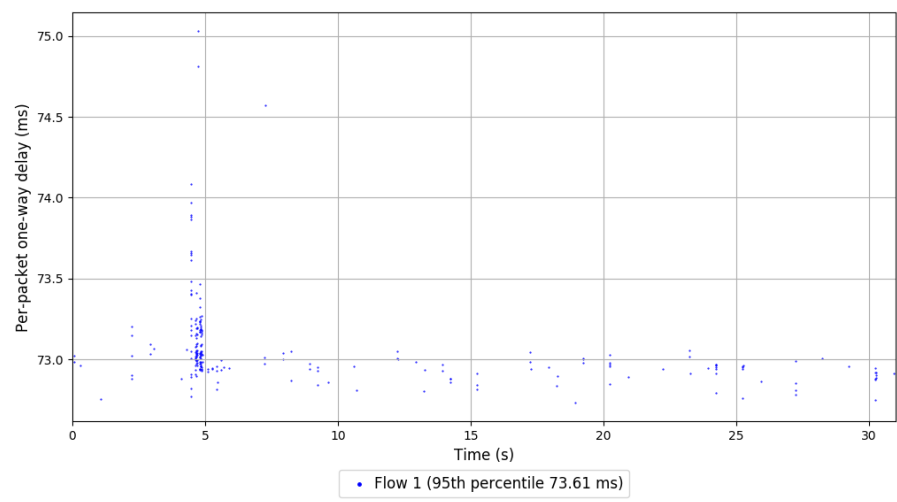
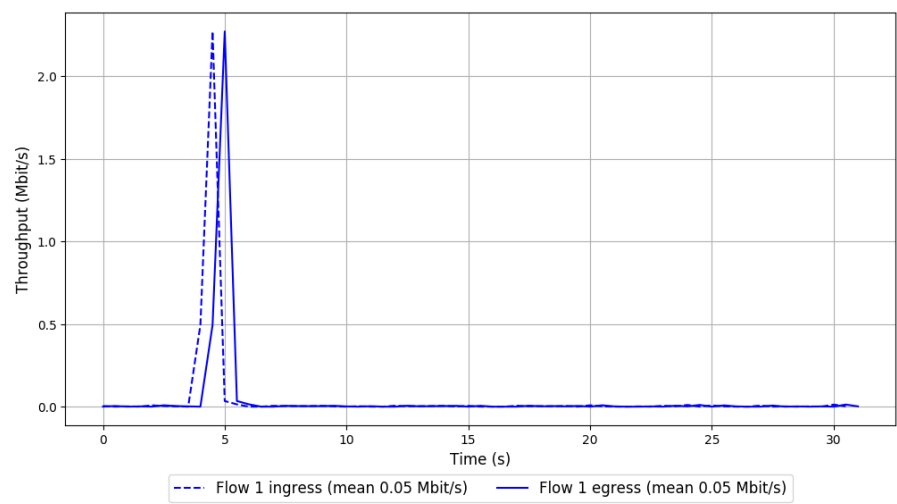


Run 4: Statistics of WebRTC media

Start at: 2019-10-02 19:09:01  
End at: 2019-10-02 19:09:31  
Local clock offset: -6.46 ms  
Remote clock offset: 13.919 ms

# Below is generated by plot.py at 2019-10-02 20:00:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 73.614 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 73.614 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-10-02 19:37:17  
End at: 2019-10-02 19:37:47  
Local clock offset: -5.698 ms  
Remote clock offset: 17.036 ms

# Below is generated by plot.py at 2019-10-02 20:00:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 71.448 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 71.448 ms  
Loss rate: 0.00%

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

