

## Pantheon Report

Generated at 2019-09-18 02:34:25 (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:

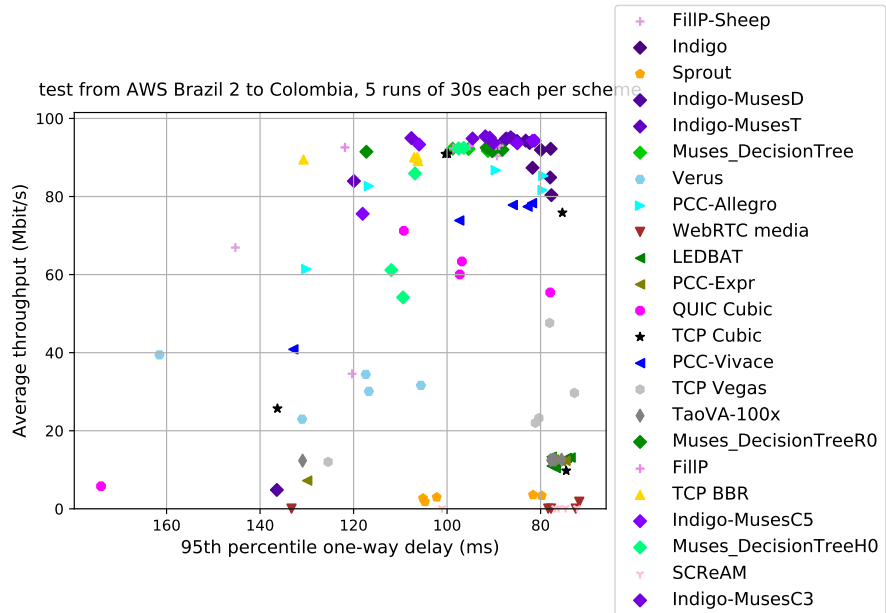
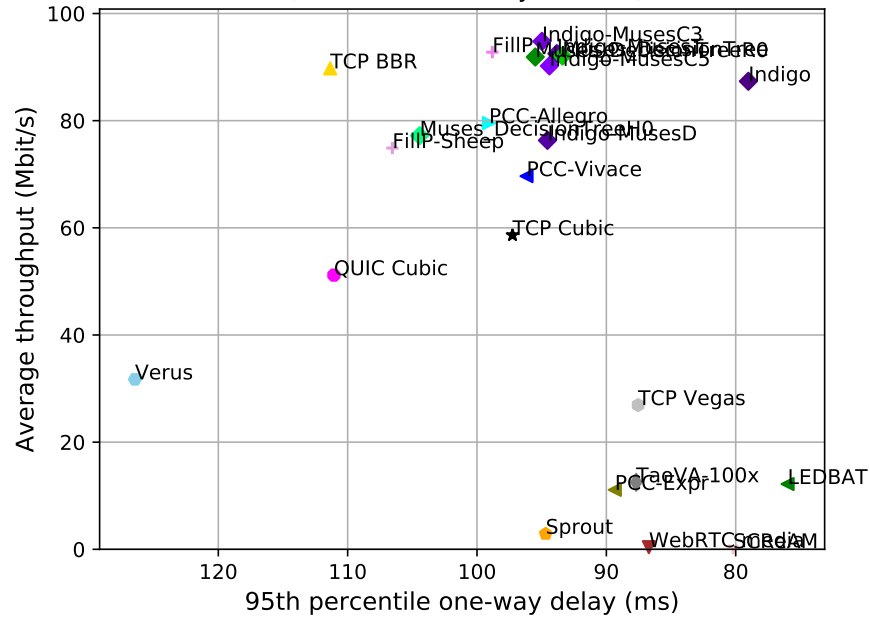
```
Linux 4.15.0-1045-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### 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	89.75	111.35	2.92
Copa	0	N/A	N/A	N/A
TCP Cubic	5	58.64	97.26	0.35
FillP	5	92.78	98.81	1.10
FillP-Sheep	5	74.89	106.54	1.06
Indigo	5	87.35	79.02	0.90
Indigo-MusesC3	5	94.81	94.98	0.28
Indigo-MusesC5	5	90.22	94.40	0.50
Indigo-MusesD	5	76.32	94.55	0.15
Indigo-MusesT	5	92.52	93.83	1.45
LEDBAT	5	12.18	75.99	0.00
Muses_DecisionTree	5	92.07	93.40	0.35
Muses_DecisionTreeH0	5	77.20	104.43	29.14
Muses_DecisionTreeR0	5	91.88	95.49	0.32
PCC-Allegro	5	79.55	99.08	2.01
PCC-Expr	4	11.09	89.35	30.43
QUIC Cubic	5	51.17	111.06	0.47
SCReAM	5	0.21	80.20	0.03
Sprout	5	2.89	94.69	0.08
TaoVA-100x	5	12.51	87.69	19.89
TCP Vegas	5	26.92	87.55	0.99
Verus	5	31.71	126.45	49.97
PCC-Vivace	5	69.65	96.17	0.14
WebRTC media	5	0.40	86.71	0.16

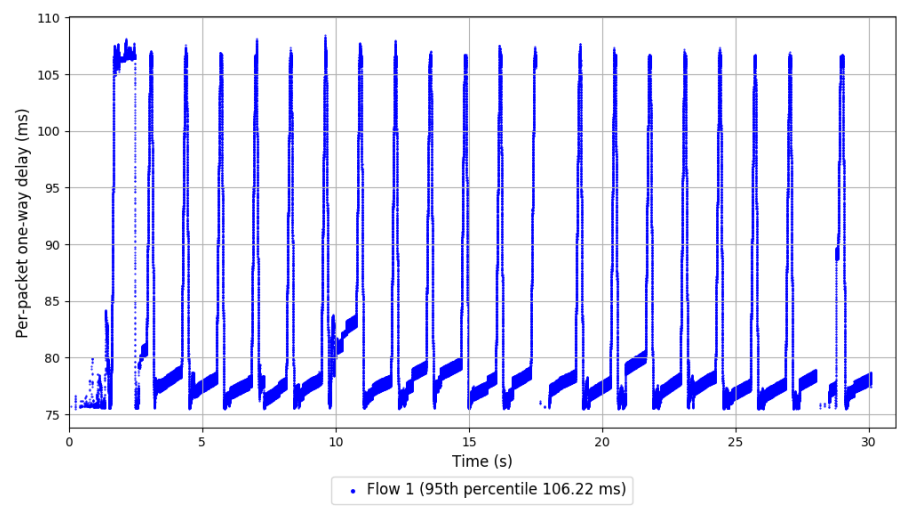
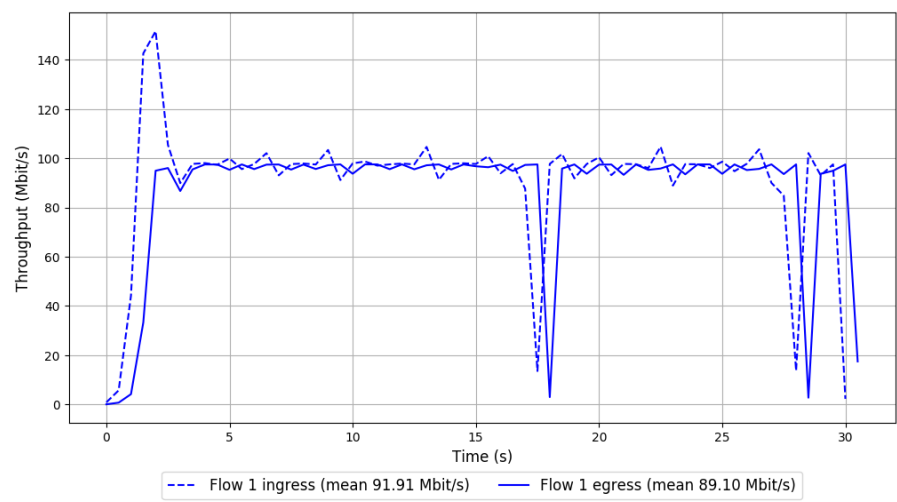


Run 1: Statistics of TCP BBR

Start at: 2019-09-18 00:22:21  
End at: 2019-09-18 00:22:51  
Local clock offset: 1.893 ms  
Remote clock offset: -7.898 ms

# Below is generated by plot.py at 2019-09-18 02:24:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 89.10 Mbit/s  
95th percentile per-packet one-way delay: 106.217 ms  
Loss rate: 3.04%  
-- Flow 1:  
Average throughput: 89.10 Mbit/s  
95th percentile per-packet one-way delay: 106.217 ms  
Loss rate: 3.04%

Run 1: Report of TCP BBR — Data Link

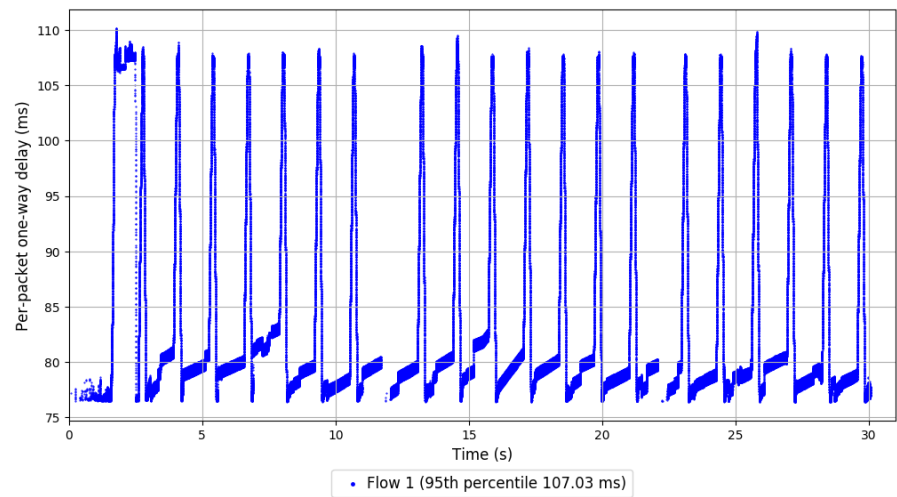
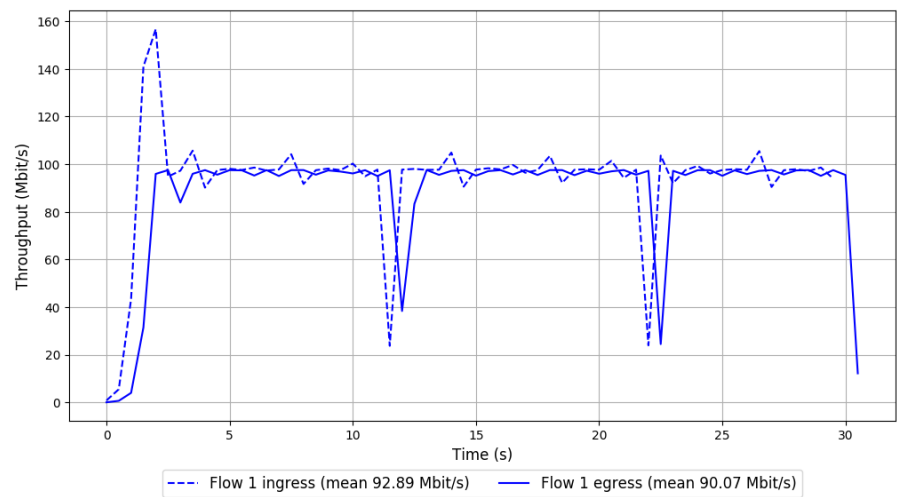


Run 2: Statistics of TCP BBR

Start at: 2019-09-18 00:50:34  
End at: 2019-09-18 00:51:04  
Local clock offset: -6.388 ms  
Remote clock offset: -7.772 ms

# Below is generated by plot.py at 2019-09-18 02:24:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.07 Mbit/s  
95th percentile per-packet one-way delay: 107.035 ms  
Loss rate: 3.04%  
-- Flow 1:  
Average throughput: 90.07 Mbit/s  
95th percentile per-packet one-way delay: 107.035 ms  
Loss rate: 3.04%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-09-18 01:18:43

End at: 2019-09-18 01:19:13

Local clock offset: 1.329 ms

Remote clock offset: -8.592 ms

# Below is generated by plot.py at 2019-09-18 02:24:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.09 Mbit/s

95th percentile per-packet one-way delay: 106.369 ms

Loss rate: 3.00%

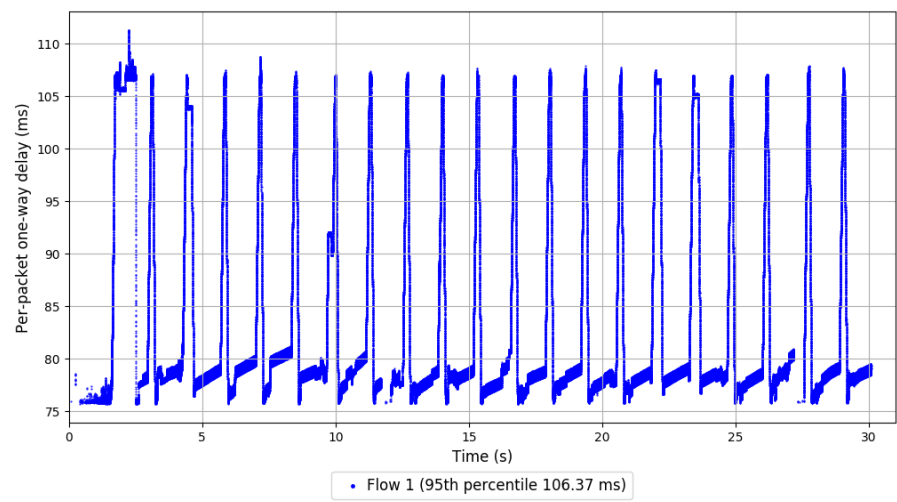
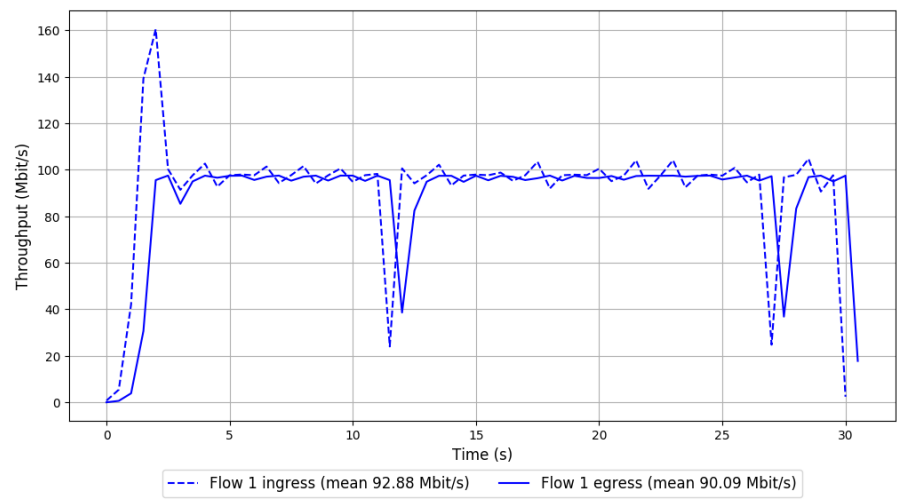
-- Flow 1:

Average throughput: 90.09 Mbit/s

95th percentile per-packet one-way delay: 106.369 ms

Loss rate: 3.00%

Run 3: Report of TCP BBR — Data Link

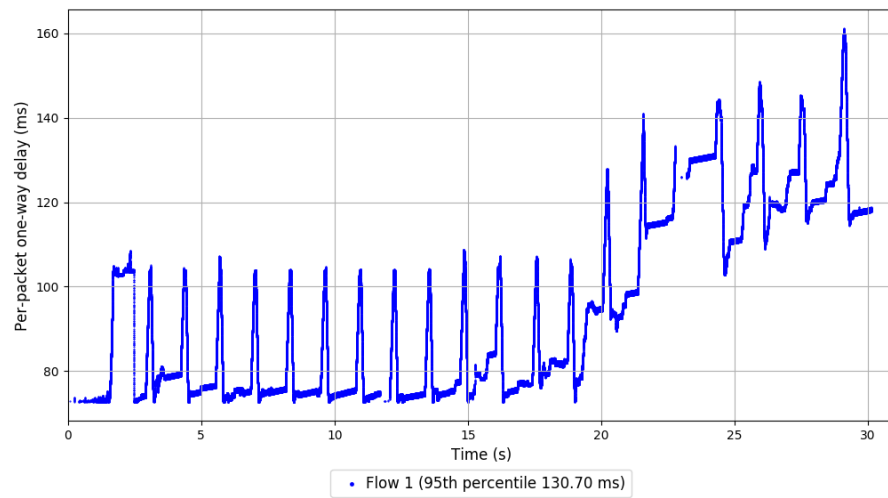
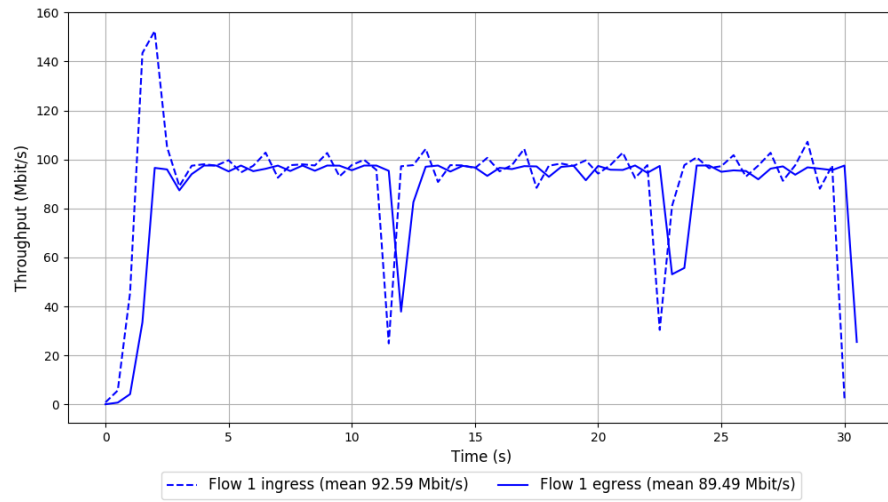


Run 4: Statistics of TCP BBR

Start at: 2019-09-18 01:46:59  
End at: 2019-09-18 01:47:29  
Local clock offset: 1.661 ms  
Remote clock offset: -11.267 ms

# Below is generated by plot.py at 2019-09-18 02:24:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 89.49 Mbit/s  
95th percentile per-packet one-way delay: 130.701 ms  
Loss rate: 3.20%  
-- Flow 1:  
Average throughput: 89.49 Mbit/s  
95th percentile per-packet one-way delay: 130.701 ms  
Loss rate: 3.20%

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



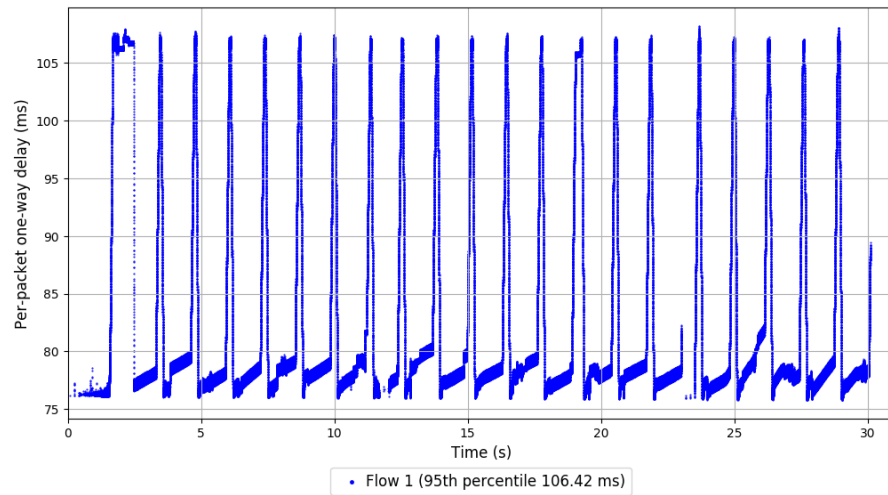
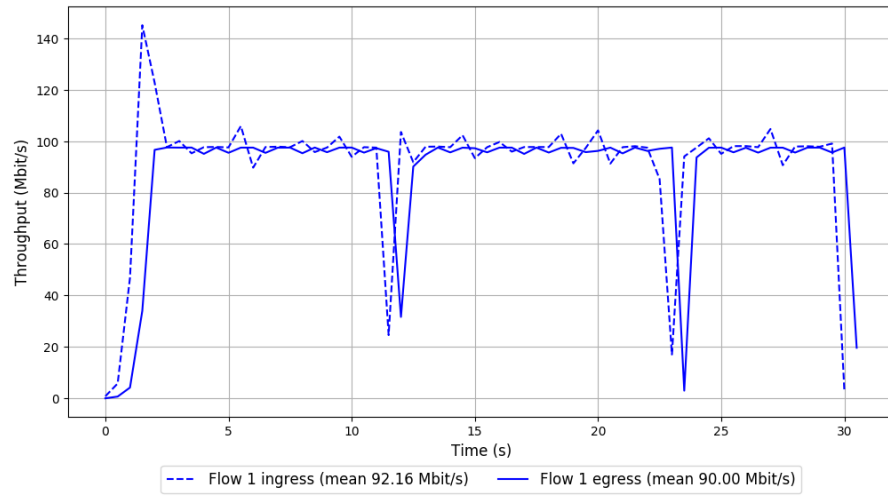


Run 5: Statistics of TCP BBR

Start at: 2019-09-18 02:15:28  
End at: 2019-09-18 02:15:58  
Local clock offset: -18.047 ms  
Remote clock offset: -10.11 ms

# Below is generated by plot.py at 2019-09-18 02:24:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.00 Mbit/s  
95th percentile per-packet one-way delay: 106.417 ms  
Loss rate: 2.31%  
-- Flow 1:  
Average throughput: 90.00 Mbit/s  
95th percentile per-packet one-way delay: 106.417 ms  
Loss rate: 2.31%

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



Run 1: Statistics of Copa

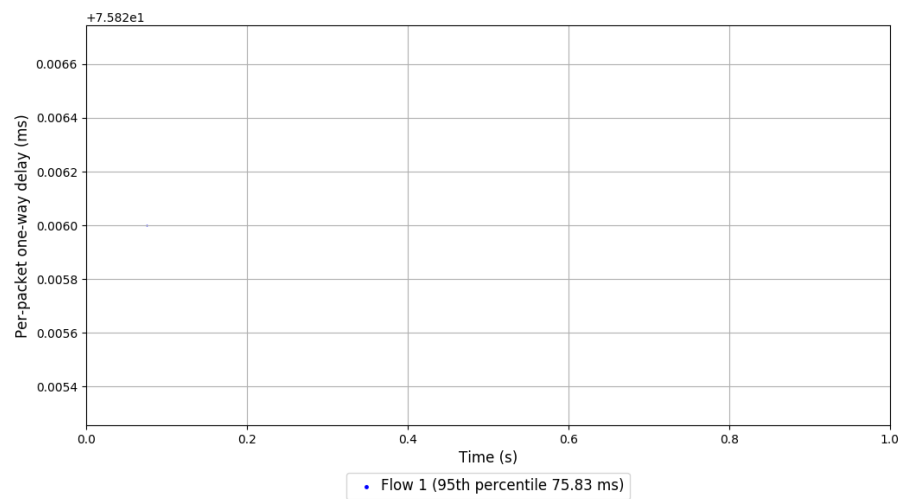
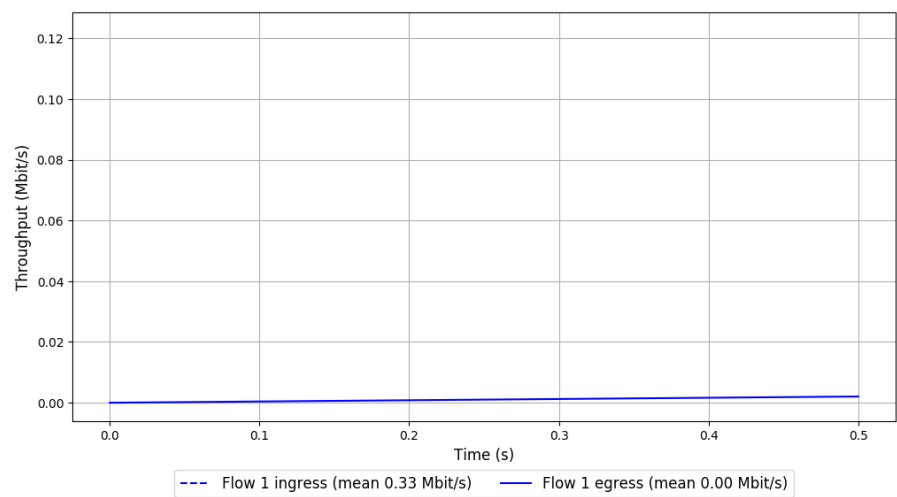
Start at: 2019-09-18 00:24:43

End at: 2019-09-18 00:25:13

Local clock offset: 2.31 ms

Remote clock offset: -7.625 ms

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

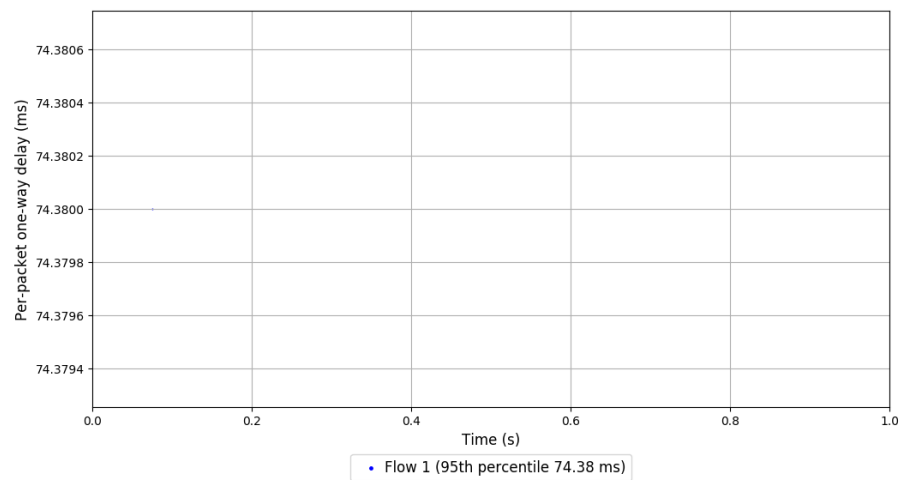
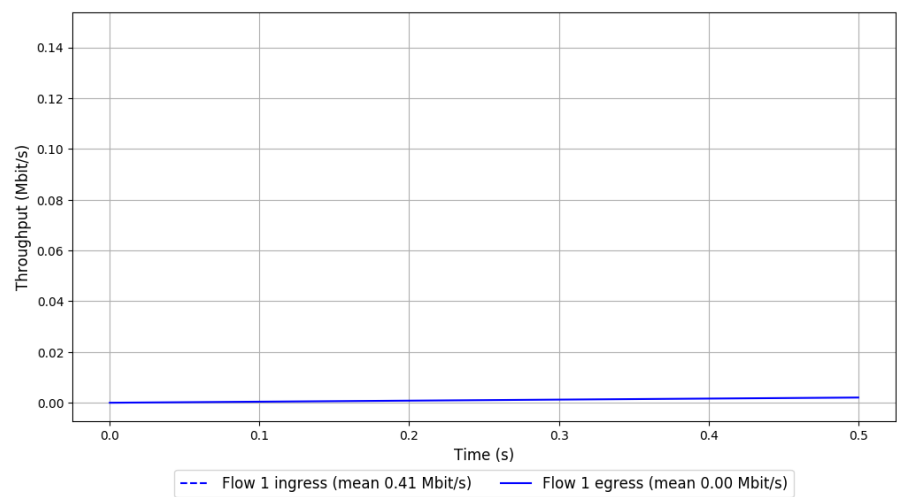
Start at: 2019-09-18 00:52:56

End at: 2019-09-18 00:53:27

Local clock offset: -6.739 ms

Remote clock offset: -8.247 ms

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

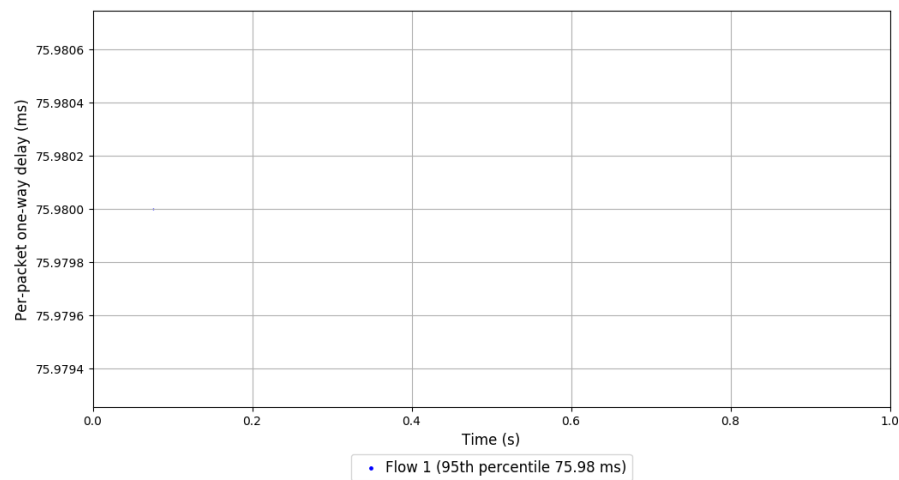
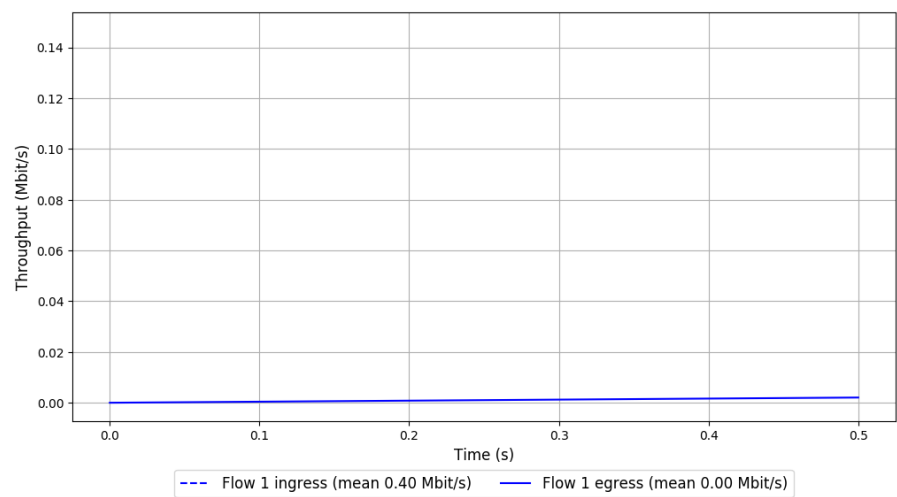
Start at: 2019-09-18 01:21:06

End at: 2019-09-18 01:21:36

Local clock offset: 1.669 ms

Remote clock offset: -9.028 ms

Run 3: Report of Copa — Data Link





Run 4: Statistics of Copa

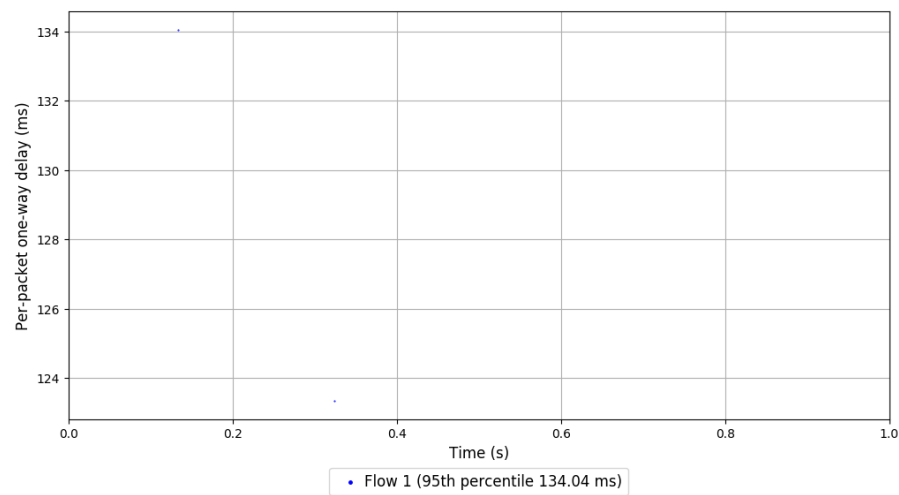
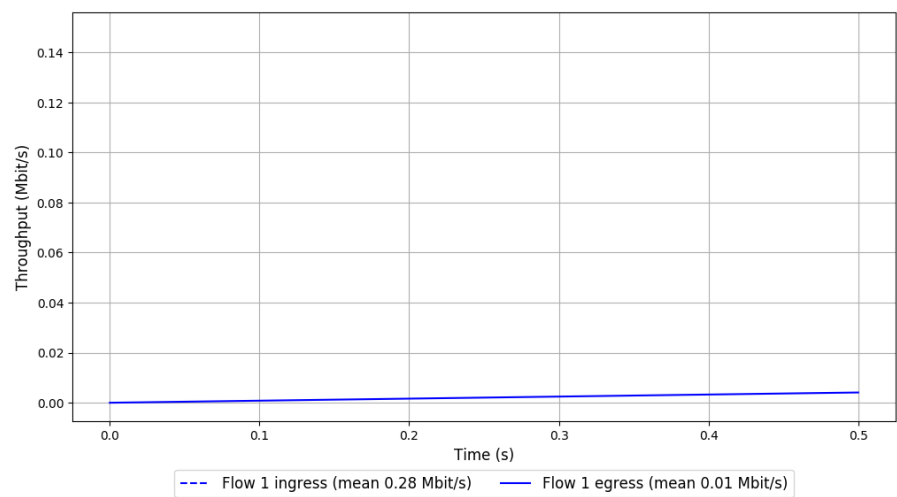
Start at: 2019-09-18 01:49:27

End at: 2019-09-18 01:49:57

Local clock offset: 1.616 ms

Remote clock offset: -49.852 ms

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

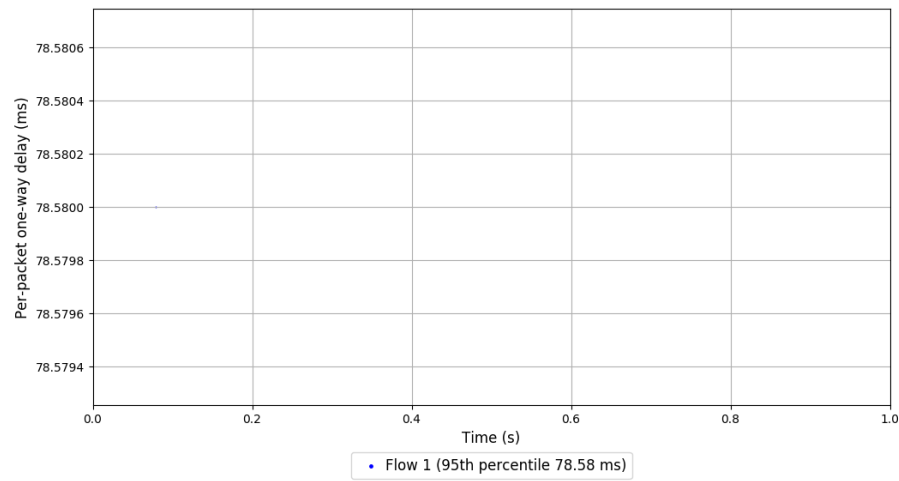
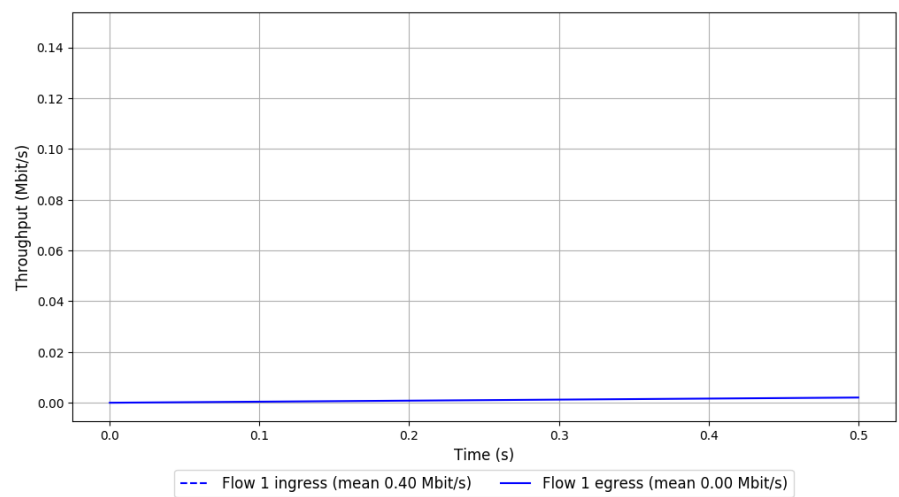
Start at: 2019-09-18 02:17:51

End at: 2019-09-18 02:18:21

Local clock offset: -19.547 ms

Remote clock offset: -9.662 ms

Run 5: Report of Copa — Data Link

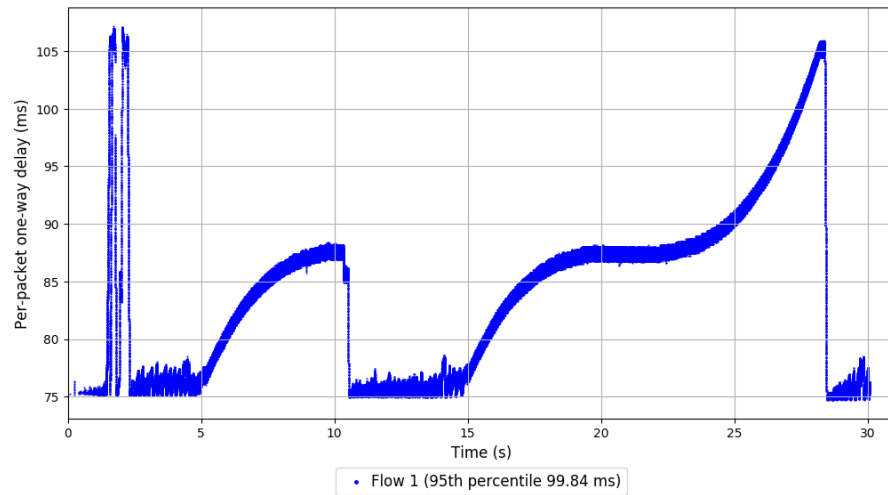
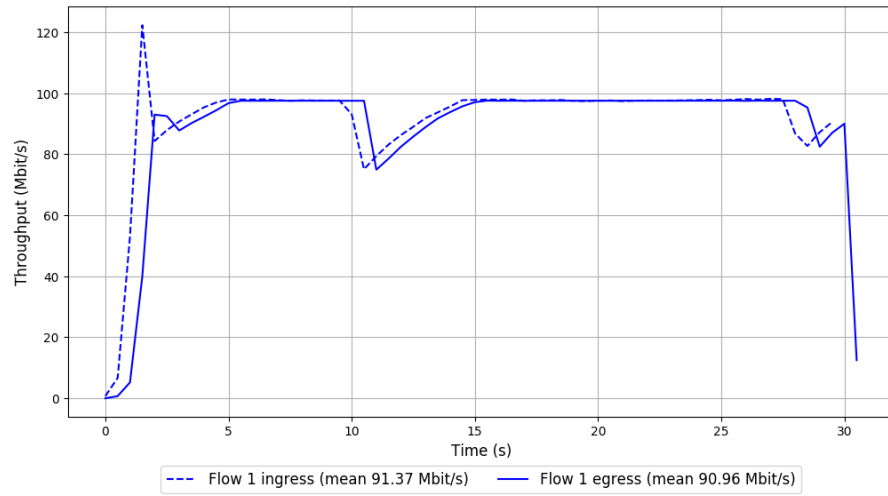


Run 1: Statistics of TCP Cubic

Start at: 2019-09-18 00:02:14  
End at: 2019-09-18 00:02:44  
Local clock offset: 11.596 ms  
Remote clock offset: -5.742 ms

# Below is generated by plot.py at 2019-09-18 02:24:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.96 Mbit/s  
95th percentile per-packet one-way delay: 99.836 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 90.96 Mbit/s  
95th percentile per-packet one-way delay: 99.836 ms  
Loss rate: 0.44%

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

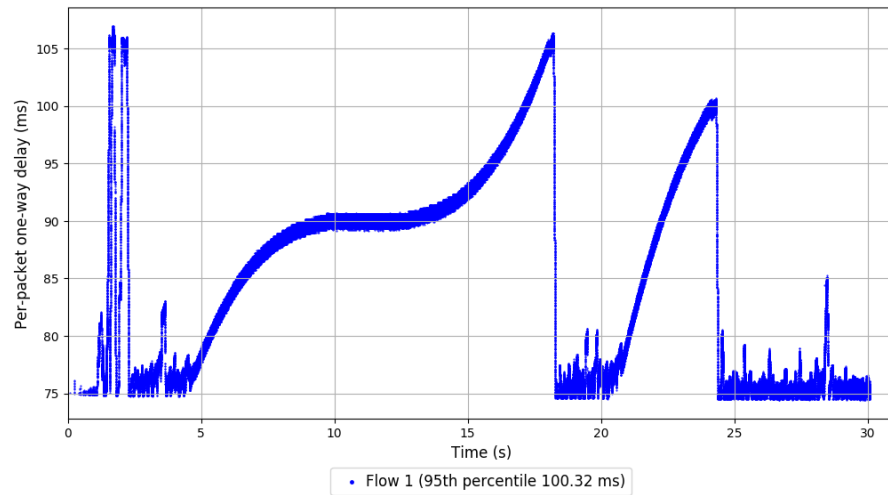
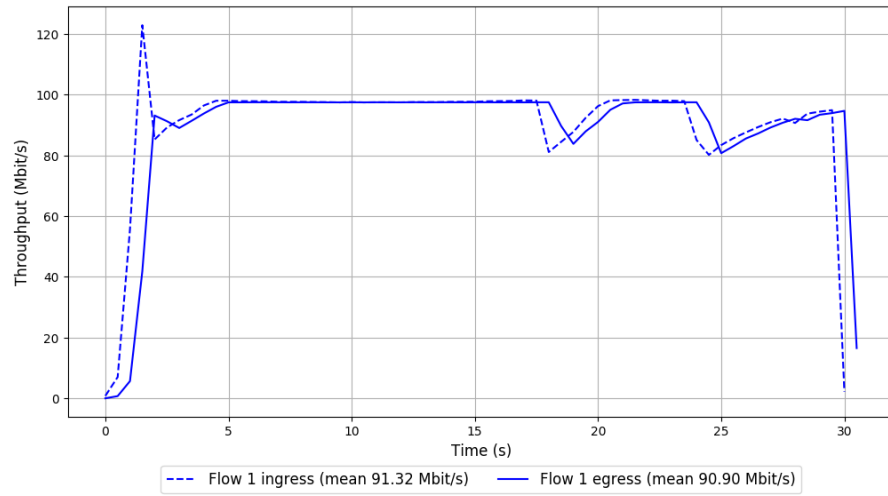


Run 2: Statistics of TCP Cubic

Start at: 2019-09-18 00:30:33  
End at: 2019-09-18 00:31:03  
Local clock offset: 1.871 ms  
Remote clock offset: -8.504 ms

# Below is generated by plot.py at 2019-09-18 02:24:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.90 Mbit/s  
95th percentile per-packet one-way delay: 100.320 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 90.90 Mbit/s  
95th percentile per-packet one-way delay: 100.320 ms  
Loss rate: 0.46%

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



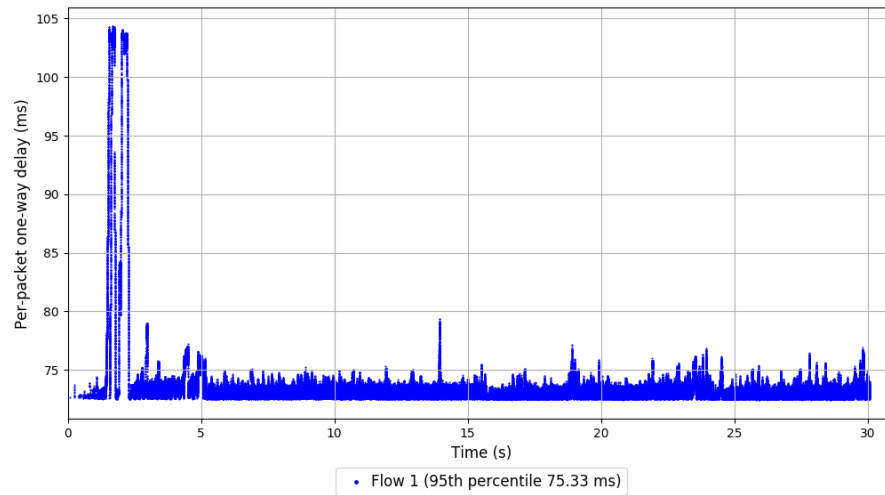
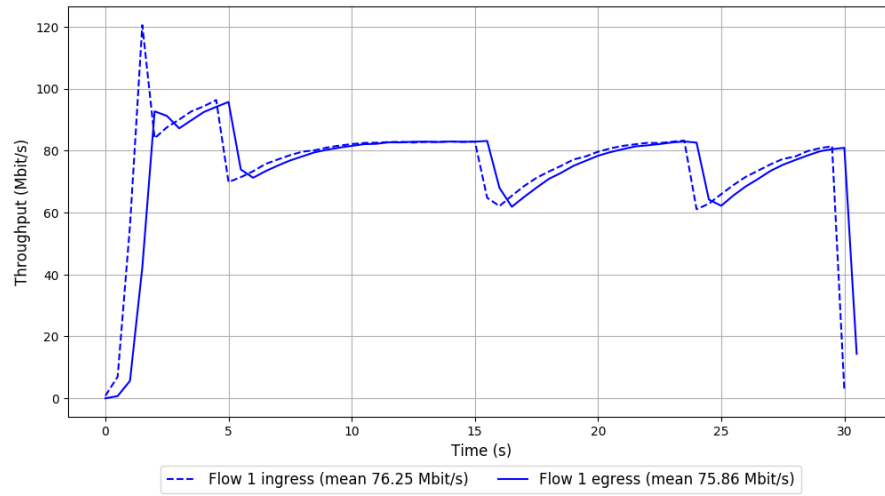


Run 3: Statistics of TCP Cubic

Start at: 2019-09-18 00:58:46  
End at: 2019-09-18 00:59:16  
Local clock offset: -7.608 ms  
Remote clock offset: -10.325 ms

# Below is generated by plot.py at 2019-09-18 02:24:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 75.86 Mbit/s  
95th percentile per-packet one-way delay: 75.328 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 75.86 Mbit/s  
95th percentile per-packet one-way delay: 75.328 ms  
Loss rate: 0.51%

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

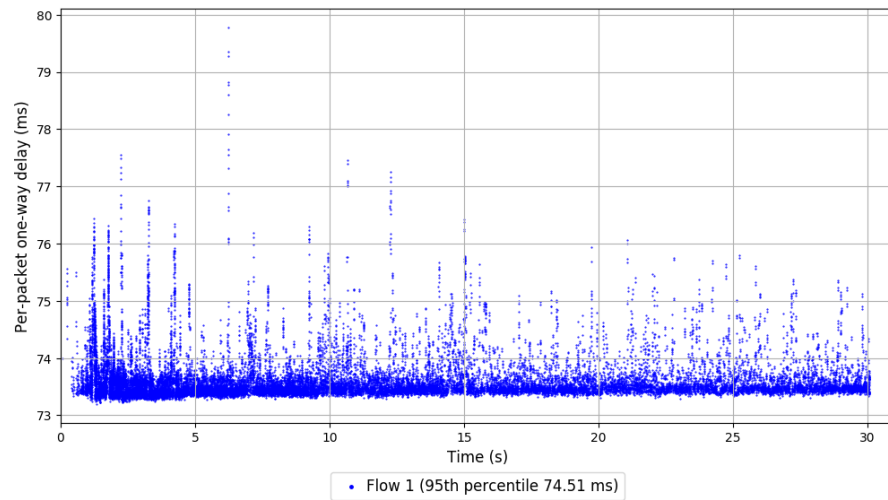
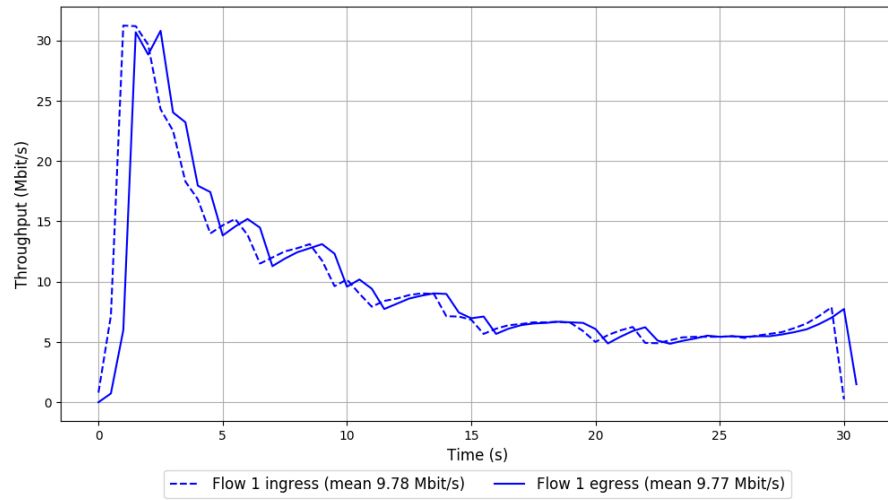


Run 4: Statistics of TCP Cubic

Start at: 2019-09-18 01:26:55  
End at: 2019-09-18 01:27:25  
Local clock offset: 2.208 ms  
Remote clock offset: -9.729 ms

# Below is generated by plot.py at 2019-09-18 02:24:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 9.77 Mbit/s  
95th percentile per-packet one-way delay: 74.512 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 9.77 Mbit/s  
95th percentile per-packet one-way delay: 74.512 ms  
Loss rate: 0.12%

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

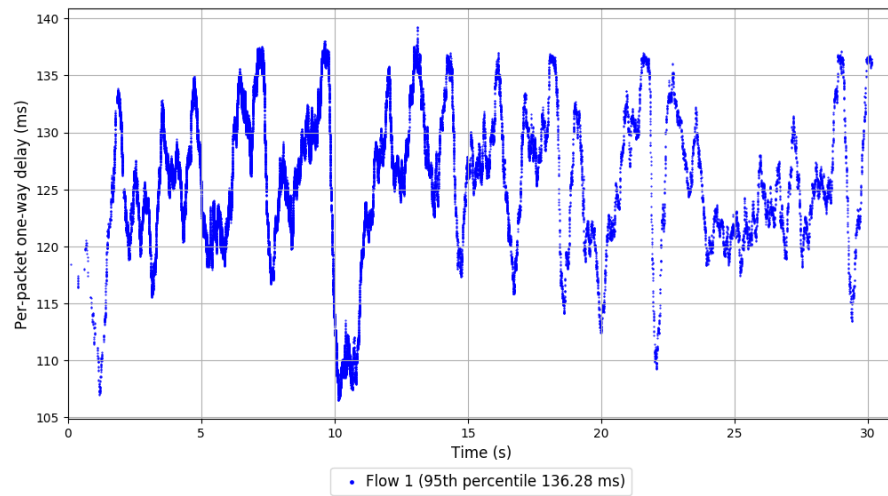
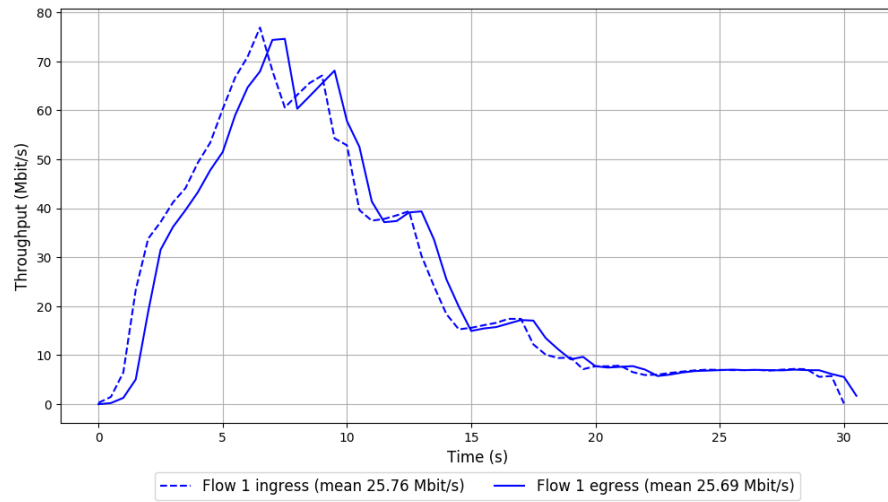


Run 5: Statistics of TCP Cubic

Start at: 2019-09-18 01:55:22  
End at: 2019-09-18 01:55:52  
Local clock offset: 1.751 ms  
Remote clock offset: -50.362 ms

# Below is generated by plot.py at 2019-09-18 02:24:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 25.69 Mbit/s  
95th percentile per-packet one-way delay: 136.282 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 25.69 Mbit/s  
95th percentile per-packet one-way delay: 136.282 ms  
Loss rate: 0.21%

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

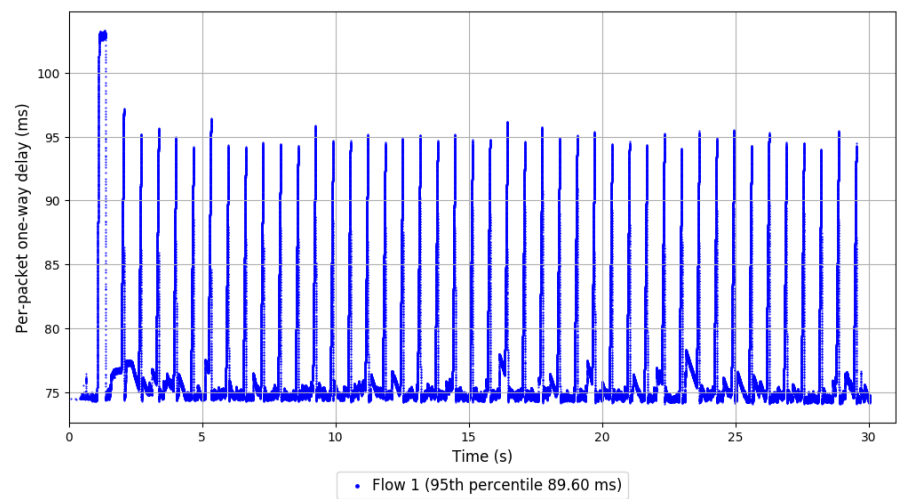
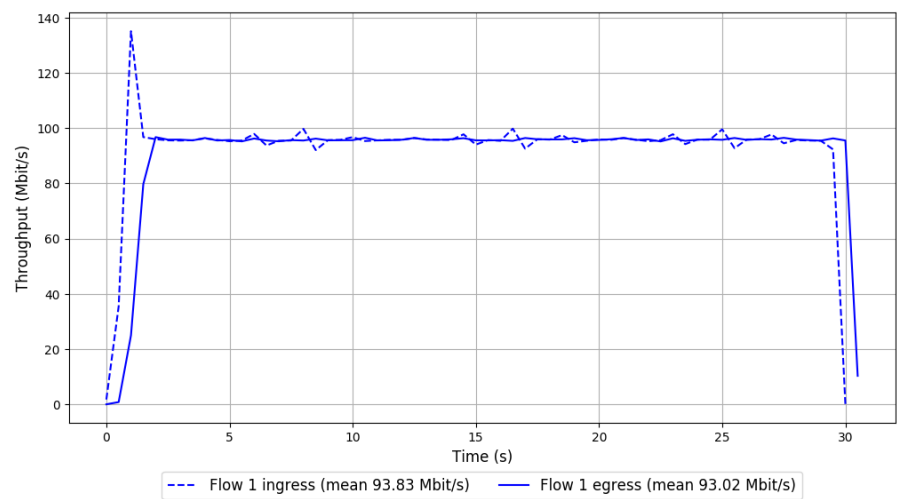


Run 1: Statistics of FillP

Start at: 2019-09-18 00:05:45  
End at: 2019-09-18 00:06:16  
Local clock offset: 8.311 ms  
Remote clock offset: -5.855 ms

# Below is generated by plot.py at 2019-09-18 02:25:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 93.02 Mbit/s  
95th percentile per-packet one-way delay: 89.601 ms  
Loss rate: 0.93%  
-- Flow 1:  
Average throughput: 93.02 Mbit/s  
95th percentile per-packet one-way delay: 89.601 ms  
Loss rate: 0.93%

Run 1: Report of FillP — Data Link



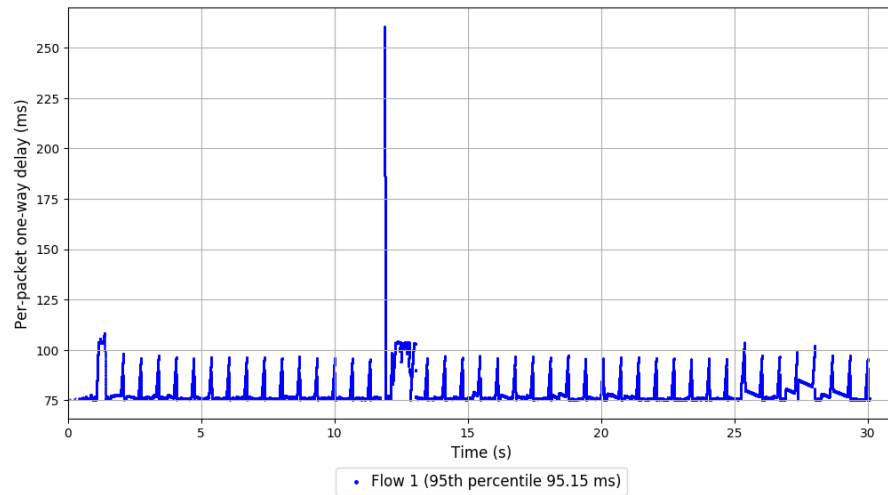
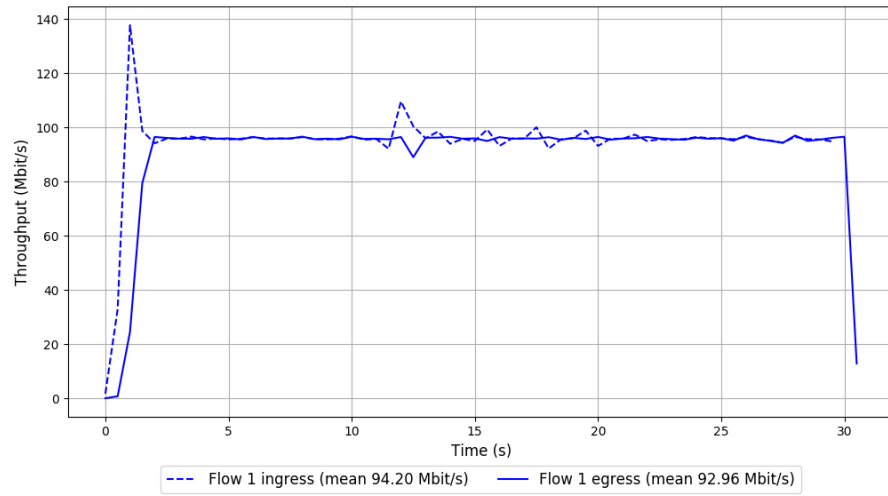


Run 2: Statistics of FillP

Start at: 2019-09-18 00:34:03  
End at: 2019-09-18 00:34:33  
Local clock offset: -1.065 ms  
Remote clock offset: -7.011 ms

# Below is generated by plot.py at 2019-09-18 02:25:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.96 Mbit/s  
95th percentile per-packet one-way delay: 95.146 ms  
Loss rate: 1.31%  
-- Flow 1:  
Average throughput: 92.96 Mbit/s  
95th percentile per-packet one-way delay: 95.146 ms  
Loss rate: 1.31%

## Run 2: Report of FillP — Data Link

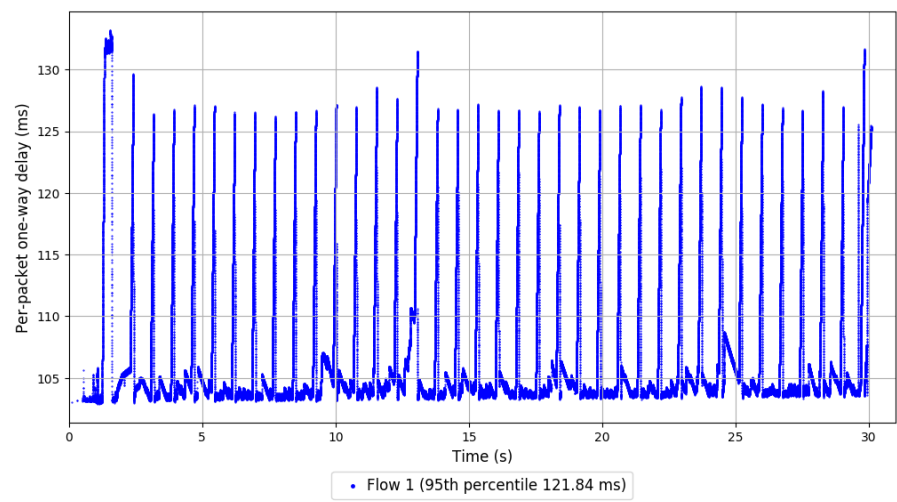
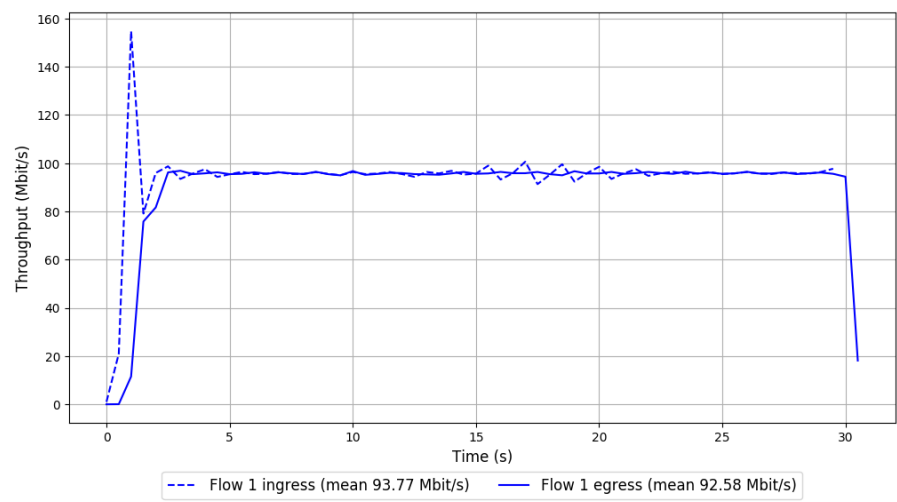


Run 3: Statistics of FillP

Start at: 2019-09-18 01:02:16  
End at: 2019-09-18 01:02:46  
Local clock offset: -6.476 ms  
Remote clock offset: -7.591 ms

# Below is generated by plot.py at 2019-09-18 02:25:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.58 Mbit/s  
95th percentile per-packet one-way delay: 121.843 ms  
Loss rate: 1.28%  
-- Flow 1:  
Average throughput: 92.58 Mbit/s  
95th percentile per-packet one-way delay: 121.843 ms  
Loss rate: 1.28%

Run 3: Report of FillP — Data Link

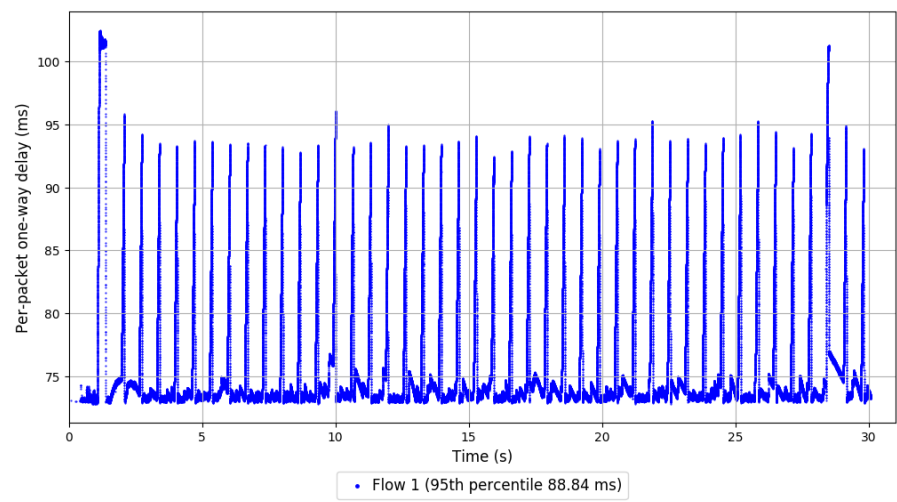
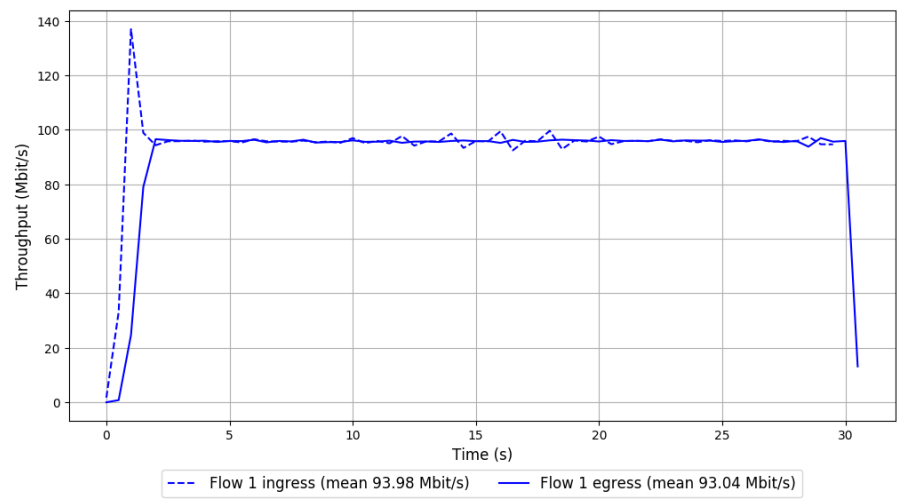


Run 4: Statistics of FillP

Start at: 2019-09-18 01:30:23  
End at: 2019-09-18 01:30:53  
Local clock offset: 2.433 ms  
Remote clock offset: -9.816 ms

# Below is generated by plot.py at 2019-09-18 02:25:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 93.04 Mbit/s  
95th percentile per-packet one-way delay: 88.838 ms  
Loss rate: 0.99%  
-- Flow 1:  
Average throughput: 93.04 Mbit/s  
95th percentile per-packet one-way delay: 88.838 ms  
Loss rate: 0.99%

Run 4: Report of FillP — Data Link

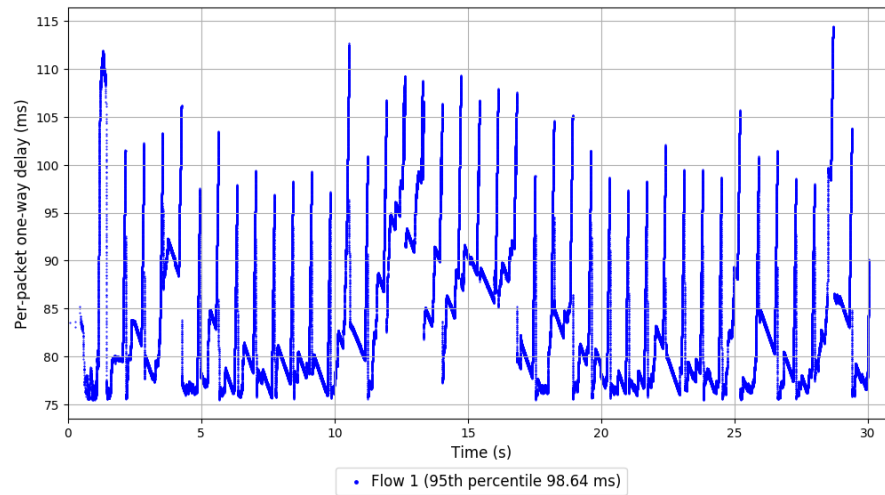
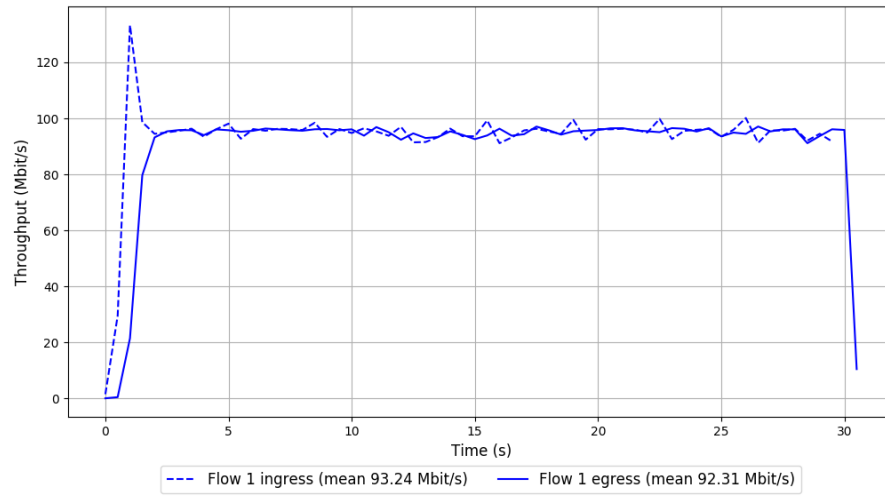


Run 5: Statistics of FillP

Start at: 2019-09-18 01:58:55  
End at: 2019-09-18 01:59:25  
Local clock offset: 2.568 ms  
Remote clock offset: -9.764 ms

# Below is generated by plot.py at 2019-09-18 02:25:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.31 Mbit/s  
95th percentile per-packet one-way delay: 98.642 ms  
Loss rate: 0.99%  
-- Flow 1:  
Average throughput: 92.31 Mbit/s  
95th percentile per-packet one-way delay: 98.642 ms  
Loss rate: 0.99%

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



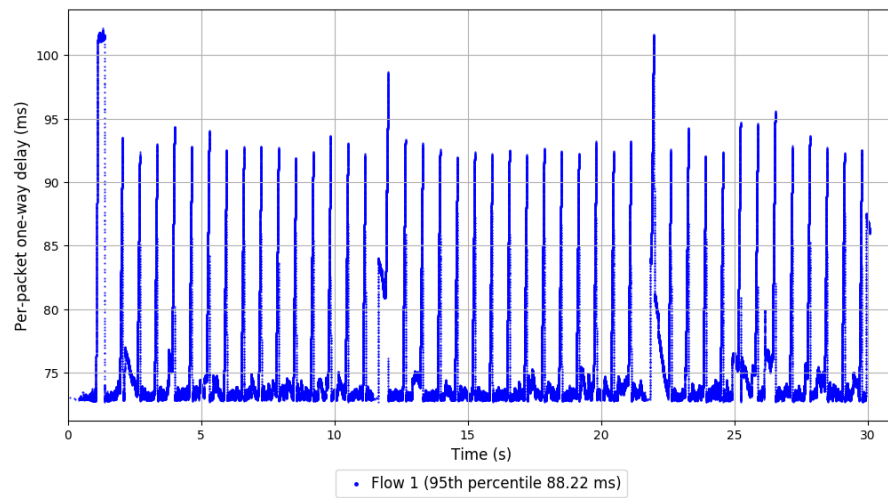
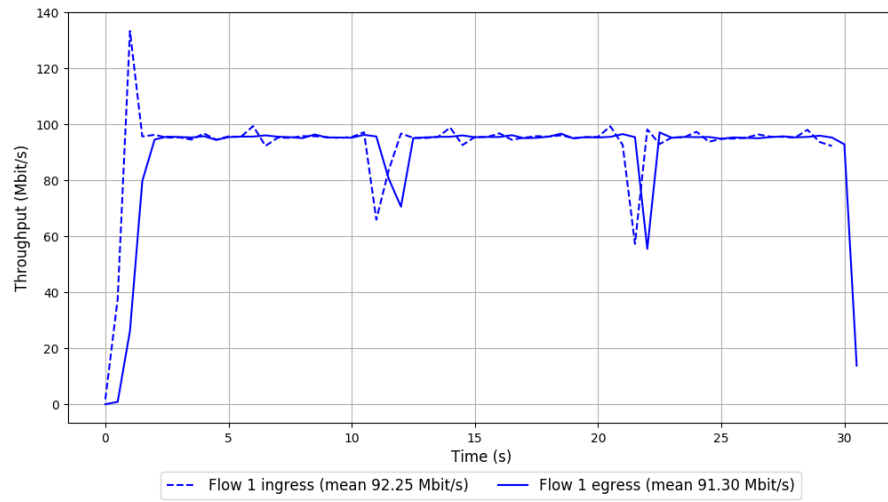


Run 1: Statistics of FillP-Sheep

Start at: 2019-09-18 00:18:49  
End at: 2019-09-18 00:19:20  
Local clock offset: 2.359 ms  
Remote clock offset: -8.951 ms

# Below is generated by plot.py at 2019-09-18 02:25:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.30 Mbit/s  
95th percentile per-packet one-way delay: 88.222 ms  
Loss rate: 0.99%  
-- Flow 1:  
Average throughput: 91.30 Mbit/s  
95th percentile per-packet one-way delay: 88.222 ms  
Loss rate: 0.99%

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

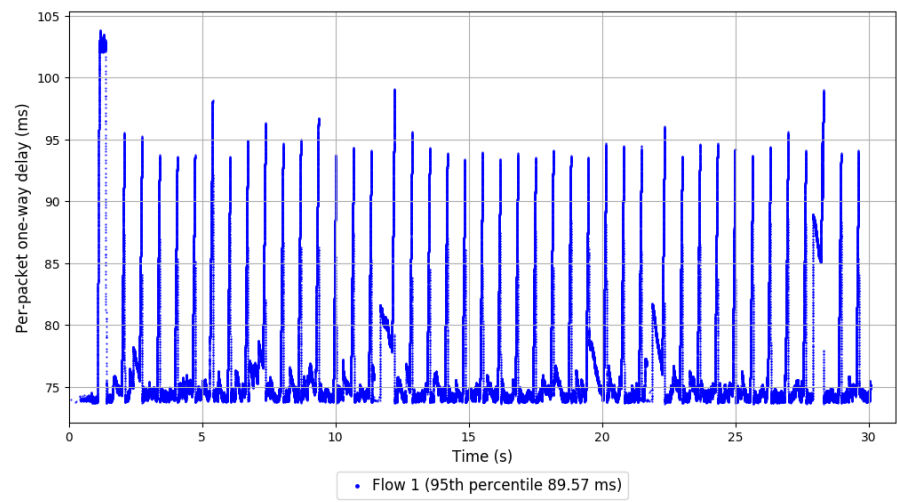
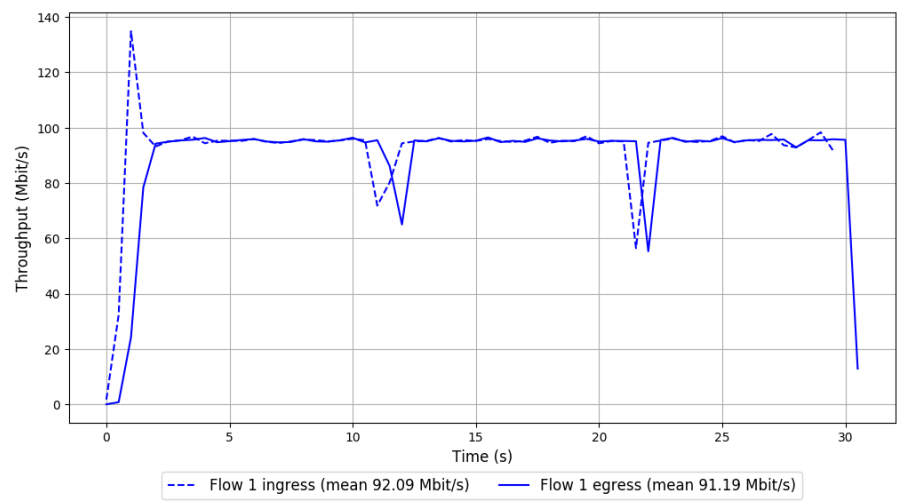


Run 2: Statistics of FillP-Sheep

Start at: 2019-09-18 00:47:01  
End at: 2019-09-18 00:47:31  
Local clock offset: -4.85 ms  
Remote clock offset: -8.626 ms

# Below is generated by plot.py at 2019-09-18 02:25:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.19 Mbit/s  
95th percentile per-packet one-way delay: 89.569 ms  
Loss rate: 0.97%  
-- Flow 1:  
Average throughput: 91.19 Mbit/s  
95th percentile per-packet one-way delay: 89.569 ms  
Loss rate: 0.97%

Run 2: Report of FillP-Sheep — Data Link

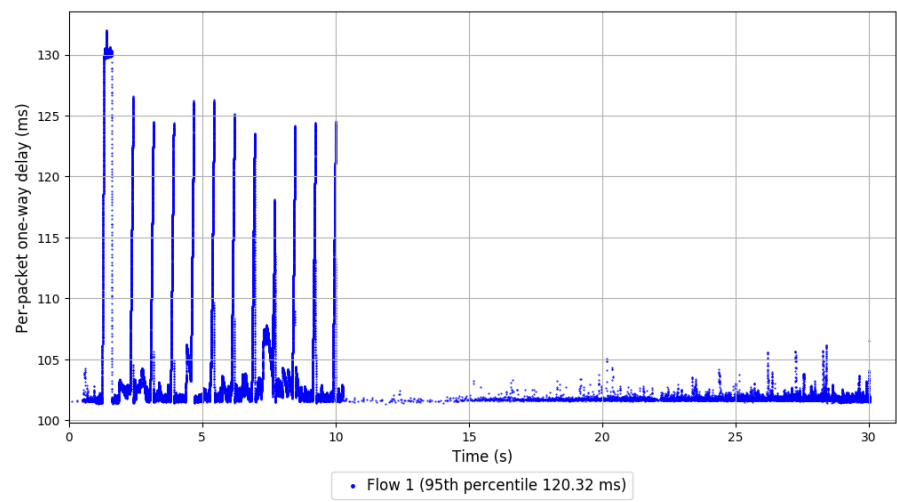
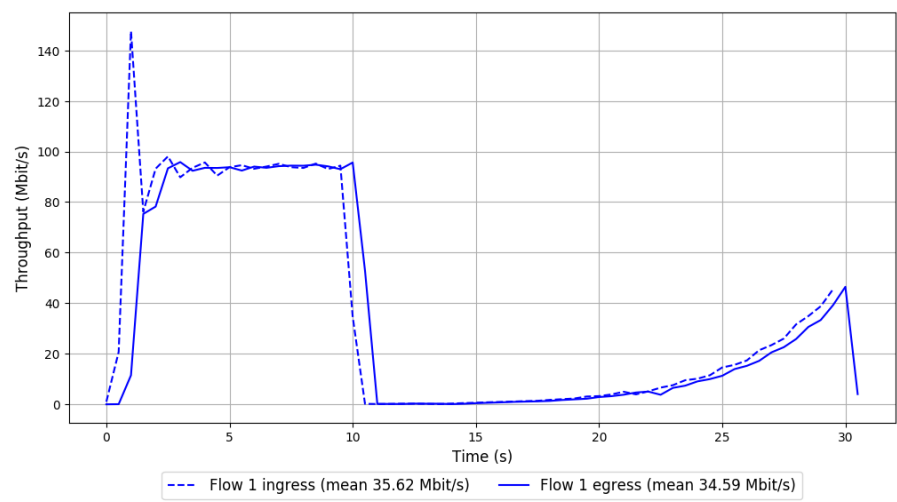


Run 3: Statistics of FillP-Sheep

Start at: 2019-09-18 01:15:14  
End at: 2019-09-18 01:15:44  
Local clock offset: 0.709 ms  
Remote clock offset: -8.385 ms

# Below is generated by plot.py at 2019-09-18 02:25:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 34.59 Mbit/s  
95th percentile per-packet one-way delay: 120.318 ms  
Loss rate: 2.97%  
-- Flow 1:  
Average throughput: 34.59 Mbit/s  
95th percentile per-packet one-way delay: 120.318 ms  
Loss rate: 2.97%

Run 3: Report of FillP-Sheep — Data Link

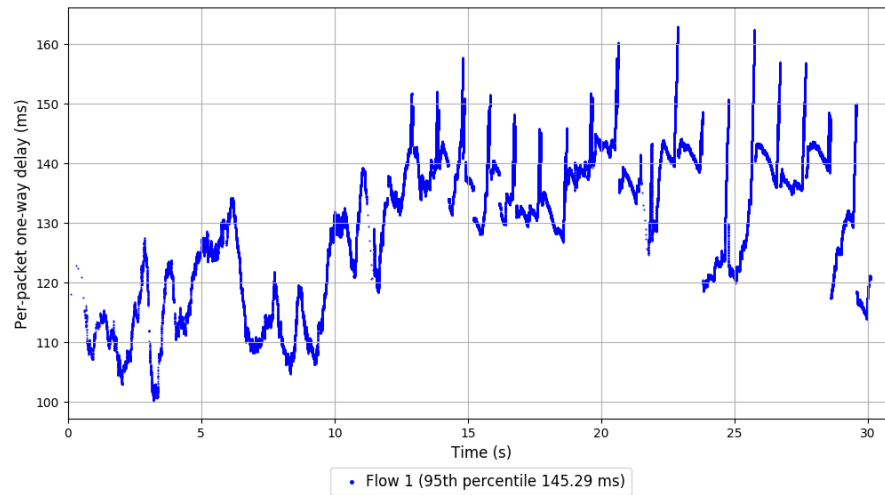
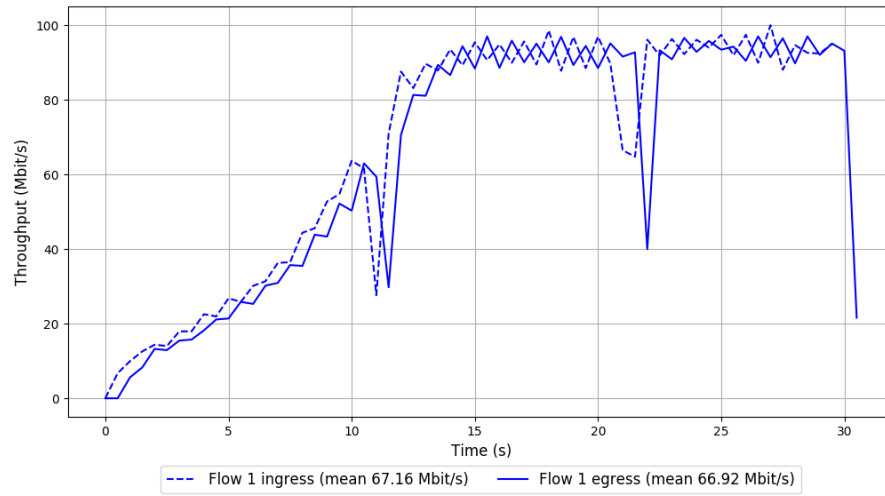


Run 4: Statistics of FillP-Sheep

Start at: 2019-09-18 01:43:26  
End at: 2019-09-18 01:43:56  
Local clock offset: 2.374 ms  
Remote clock offset: -40.81 ms

# Below is generated by plot.py at 2019-09-18 02:26:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 66.92 Mbit/s  
95th percentile per-packet one-way delay: 145.287 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 66.92 Mbit/s  
95th percentile per-packet one-way delay: 145.287 ms  
Loss rate: 0.34%

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



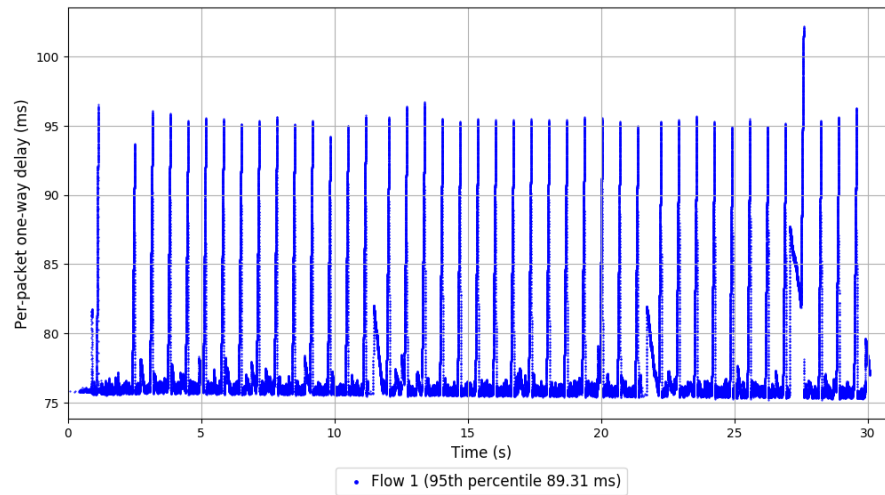
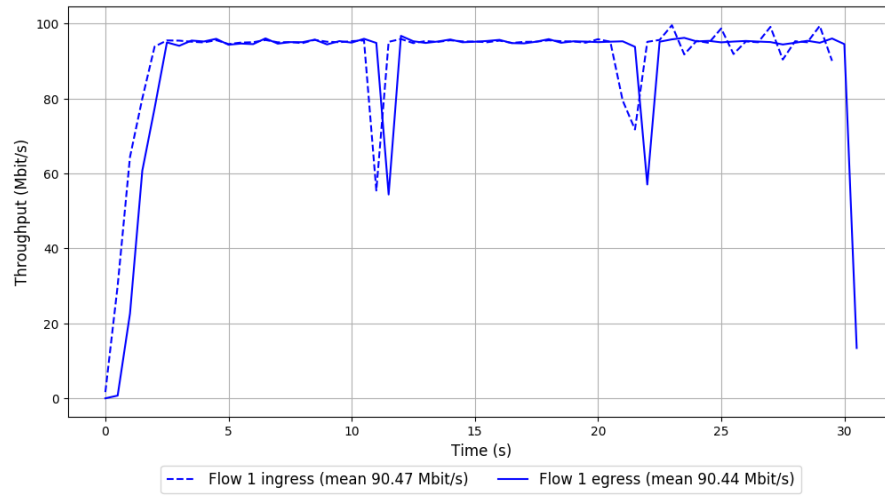


Run 5: Statistics of FillP-Sheep

Start at: 2019-09-18 02:11:52  
End at: 2019-09-18 02:12:22  
Local clock offset: -14.597 ms  
Remote clock offset: -9.574 ms

# Below is generated by plot.py at 2019-09-18 02:27:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.44 Mbit/s  
95th percentile per-packet one-way delay: 89.314 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 90.44 Mbit/s  
95th percentile per-packet one-way delay: 89.314 ms  
Loss rate: 0.03%

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



Run 1: Statistics of Indigo

Start at: 2019-09-18 00:07:02

End at: 2019-09-18 00:07:32

Local clock offset: 6.586 ms

Remote clock offset: -7.386 ms

# Below is generated by plot.py at 2019-09-18 02:27:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.23 Mbit/s

95th percentile per-packet one-way delay: 77.844 ms

Loss rate: 0.89%

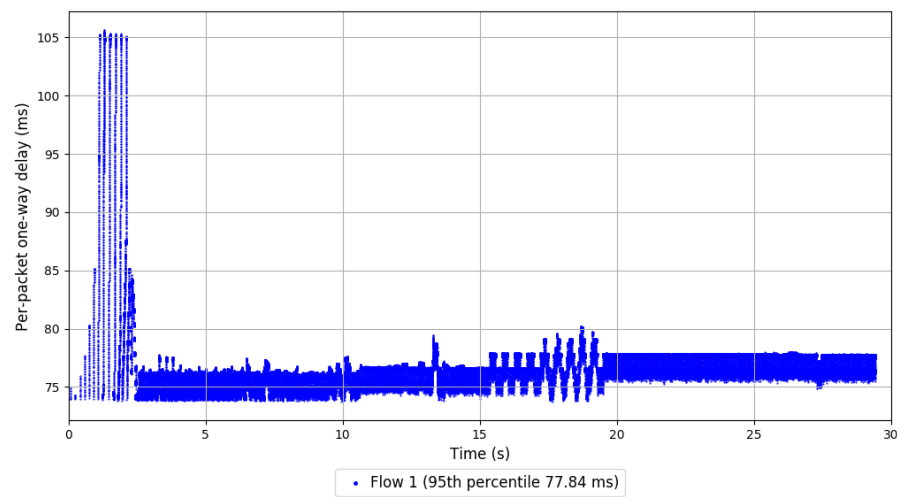
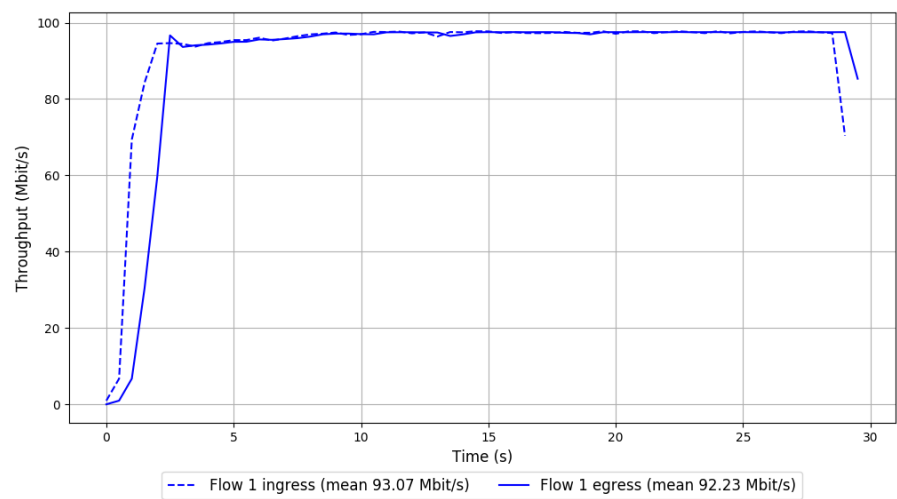
-- Flow 1:

Average throughput: 92.23 Mbit/s

95th percentile per-packet one-way delay: 77.844 ms

Loss rate: 0.89%

Run 1: Report of Indigo — Data Link

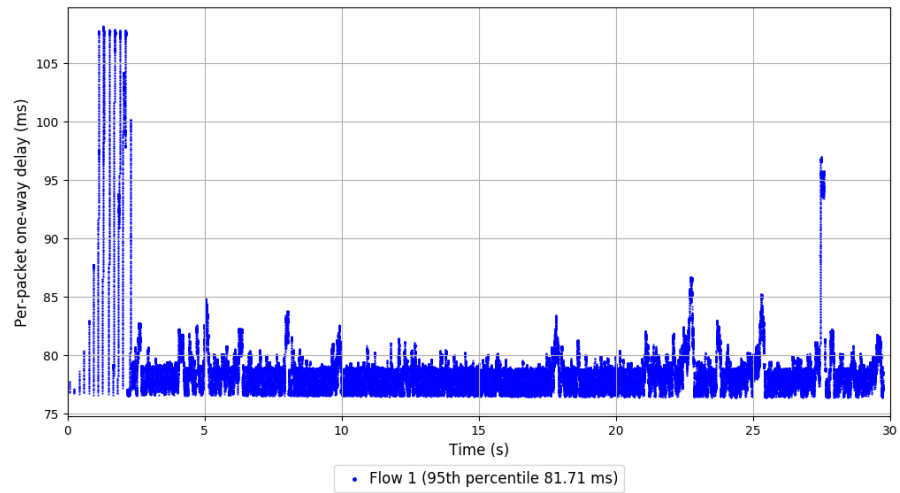
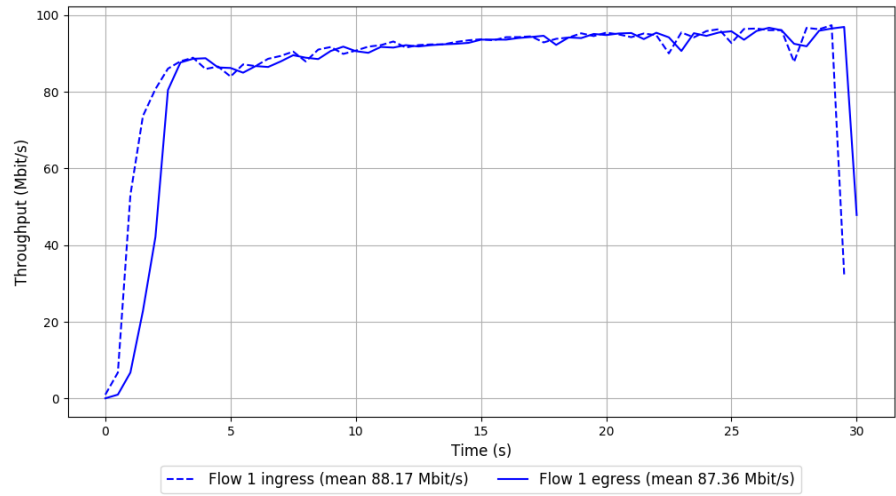


Run 2: Statistics of Indigo

Start at: 2019-09-18 00:35:15  
End at: 2019-09-18 00:35:45  
Local clock offset: -1.708 ms  
Remote clock offset: -7.031 ms

# Below is generated by plot.py at 2019-09-18 02:27:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.36 Mbit/s  
95th percentile per-packet one-way delay: 81.714 ms  
Loss rate: 0.92%  
-- Flow 1:  
Average throughput: 87.36 Mbit/s  
95th percentile per-packet one-way delay: 81.714 ms  
Loss rate: 0.92%

## Run 2: Report of Indigo — Data Link

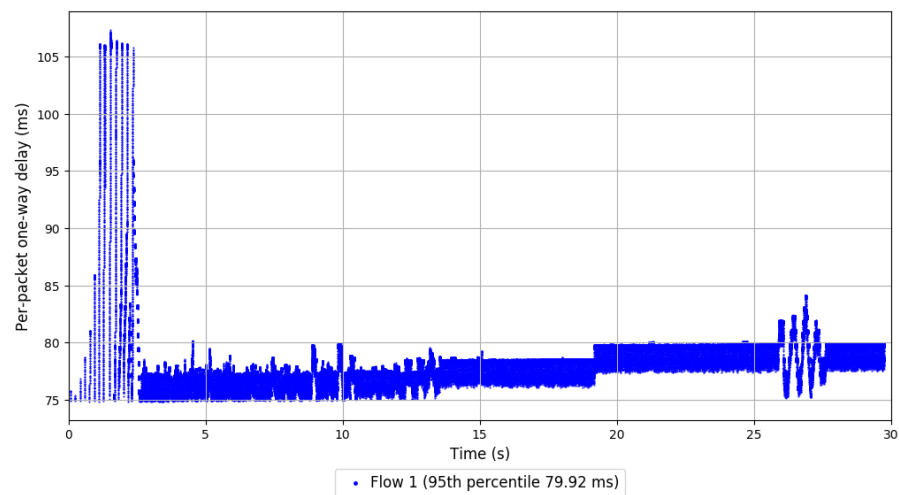
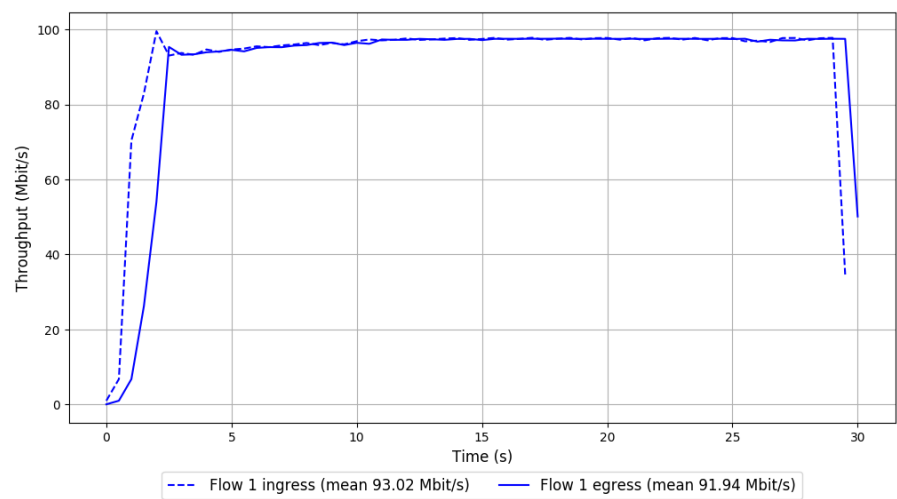


Run 3: Statistics of Indigo

Start at: 2019-09-18 01:03:27  
End at: 2019-09-18 01:03:57  
Local clock offset: -4.647 ms  
Remote clock offset: -9.853 ms

# Below is generated by plot.py at 2019-09-18 02:27:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.94 Mbit/s  
95th percentile per-packet one-way delay: 79.919 ms  
Loss rate: 1.15%  
-- Flow 1:  
Average throughput: 91.94 Mbit/s  
95th percentile per-packet one-way delay: 79.919 ms  
Loss rate: 1.15%

Run 3: Report of Indigo — Data Link



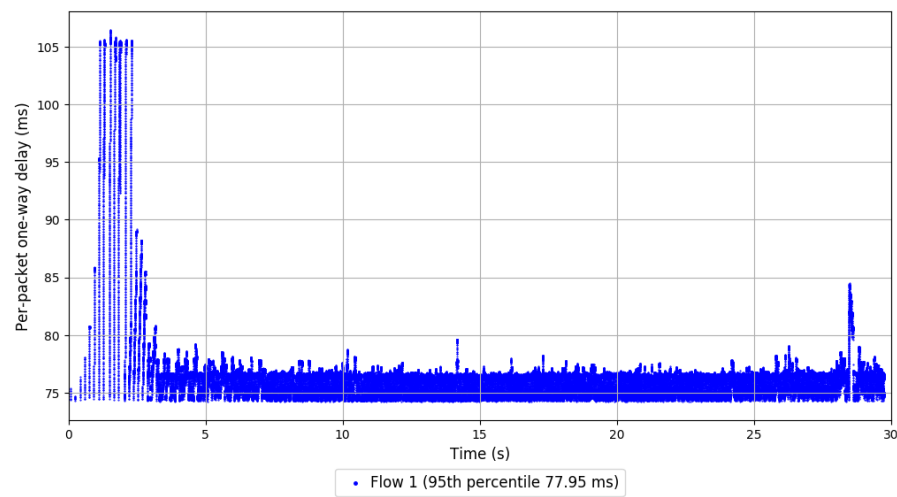
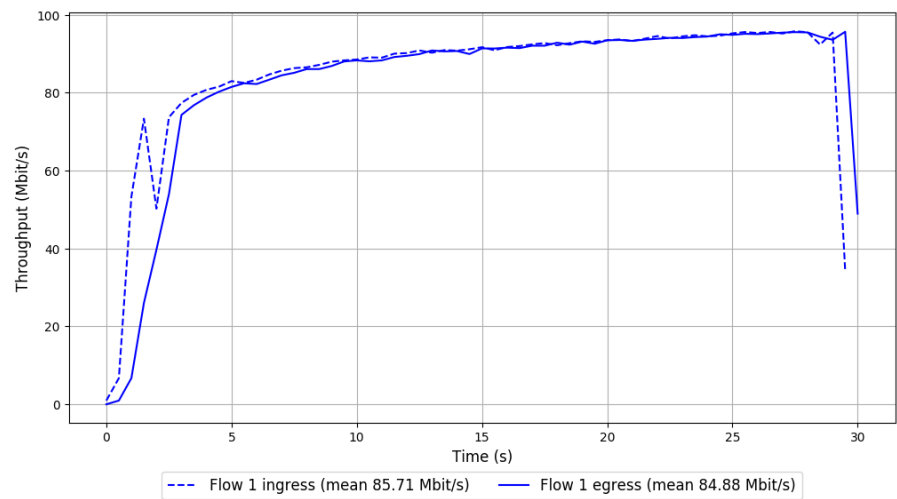


Run 4: Statistics of Indigo

Start at: 2019-09-18 01:31:34  
End at: 2019-09-18 01:32:04  
Local clock offset: 1.66 ms  
Remote clock offset: -9.322 ms

# Below is generated by plot.py at 2019-09-18 02:27:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.88 Mbit/s  
95th percentile per-packet one-way delay: 77.950 ms  
Loss rate: 0.97%  
-- Flow 1:  
Average throughput: 84.88 Mbit/s  
95th percentile per-packet one-way delay: 77.950 ms  
Loss rate: 0.97%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-09-18 02:00:06

End at: 2019-09-18 02:00:36

Local clock offset: 2.59 ms

Remote clock offset: -13.799 ms

# Below is generated by plot.py at 2019-09-18 02:27:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.35 Mbit/s

95th percentile per-packet one-way delay: 77.680 ms

Loss rate: 0.55%

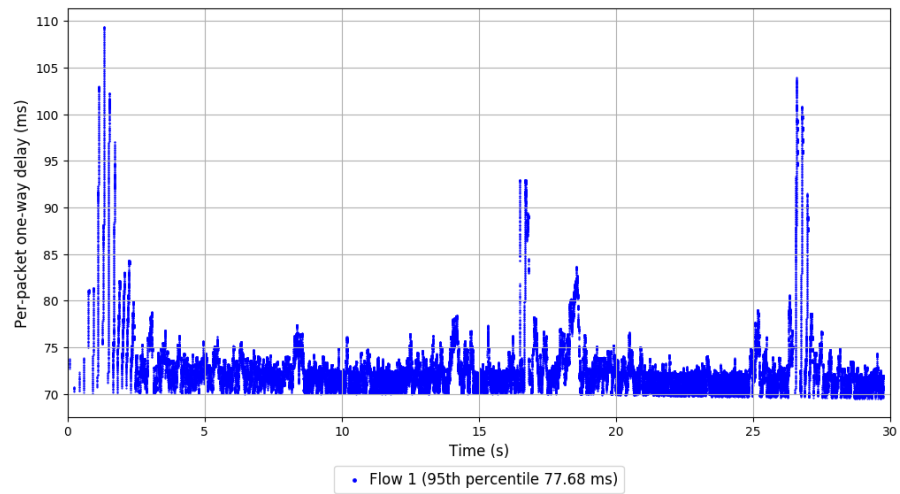
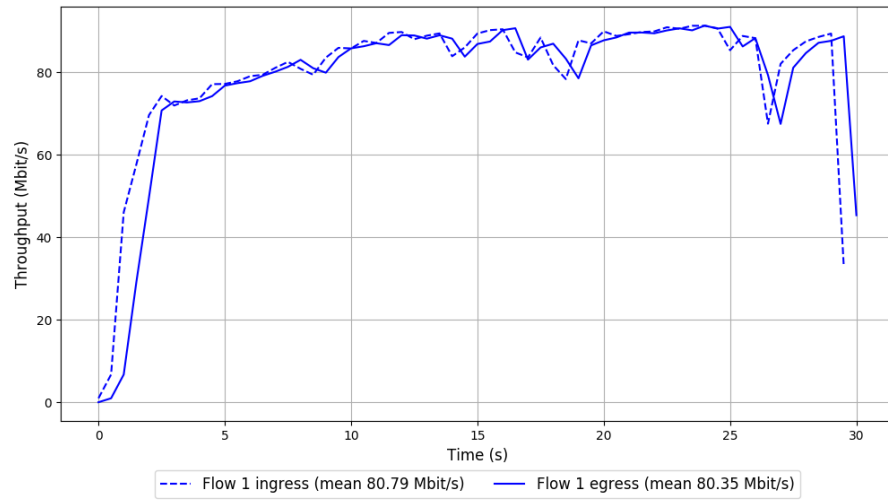
-- Flow 1:

Average throughput: 80.35 Mbit/s

95th percentile per-packet one-way delay: 77.680 ms

Loss rate: 0.55%

## Run 5: Report of Indigo — Data Link

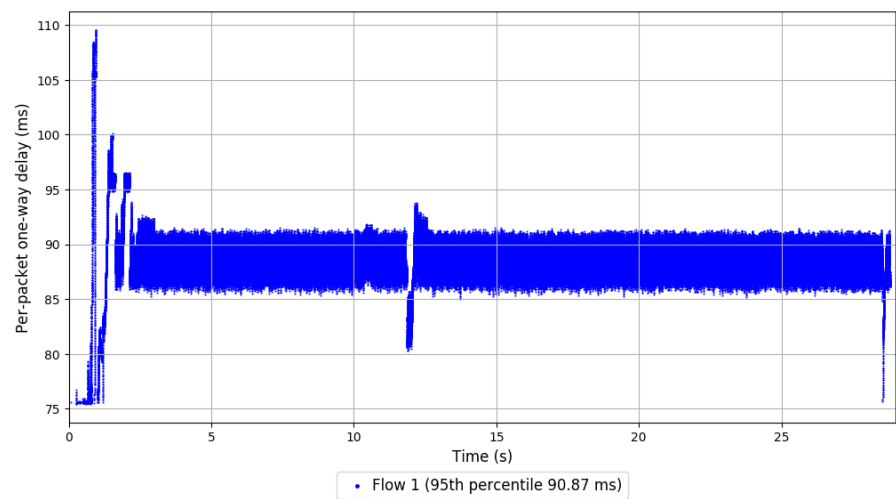
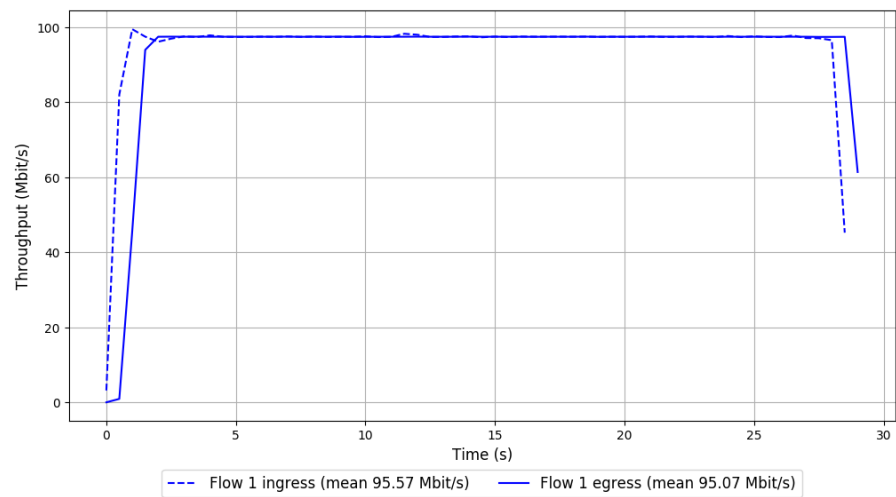


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-09-18 00:15:15  
End at: 2019-09-18 00:15:45  
Local clock offset: 3.996 ms  
Remote clock offset: -7.616 ms

# Below is generated by plot.py at 2019-09-18 02:27:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.07 Mbit/s  
95th percentile per-packet one-way delay: 90.874 ms  
Loss rate: 0.48%  
-- Flow 1:  
Average throughput: 95.07 Mbit/s  
95th percentile per-packet one-way delay: 90.874 ms  
Loss rate: 0.48%

Run 1: Report of Indigo-MusesC3 — Data Link

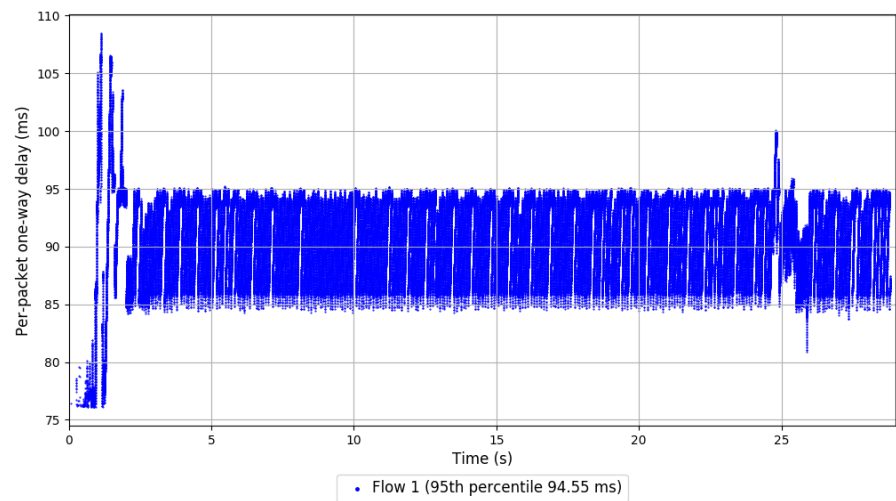
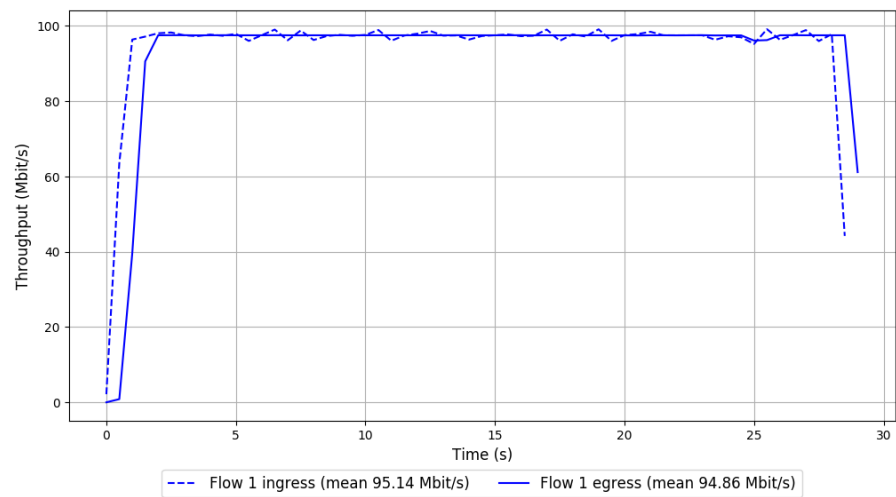


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-09-18 00:43:27  
End at: 2019-09-18 00:43:57  
Local clock offset: -4.745 ms  
Remote clock offset: -8.544 ms

# Below is generated by plot.py at 2019-09-18 02:27:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.86 Mbit/s  
95th percentile per-packet one-way delay: 94.546 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 94.86 Mbit/s  
95th percentile per-packet one-way delay: 94.546 ms  
Loss rate: 0.26%

Run 2: Report of Indigo-MusesC3 — Data Link



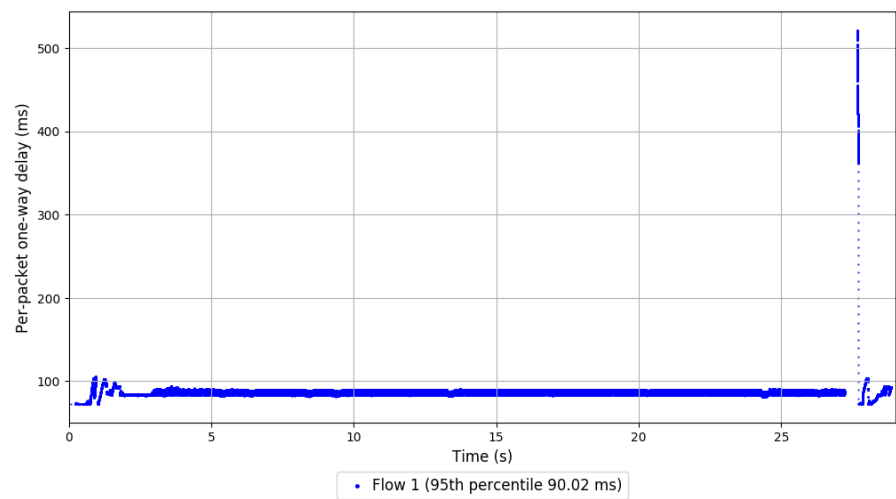
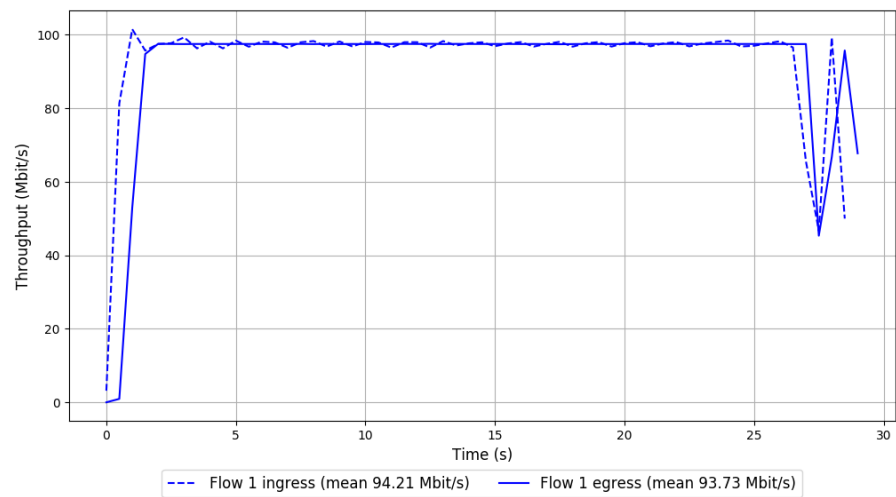


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-09-18 01:11:40  
End at: 2019-09-18 01:12:10  
Local clock offset: -0.326 ms  
Remote clock offset: -10.218 ms

# Below is generated by plot.py at 2019-09-18 02:27:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 93.73 Mbit/s  
95th percentile per-packet one-way delay: 90.015 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 93.73 Mbit/s  
95th percentile per-packet one-way delay: 90.015 ms  
Loss rate: 0.43%

Run 3: Report of Indigo-MusesC3 — Data Link

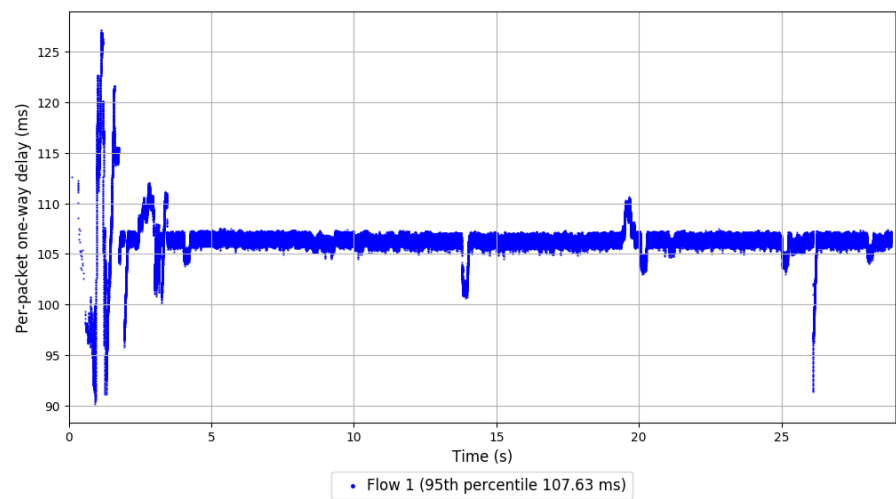
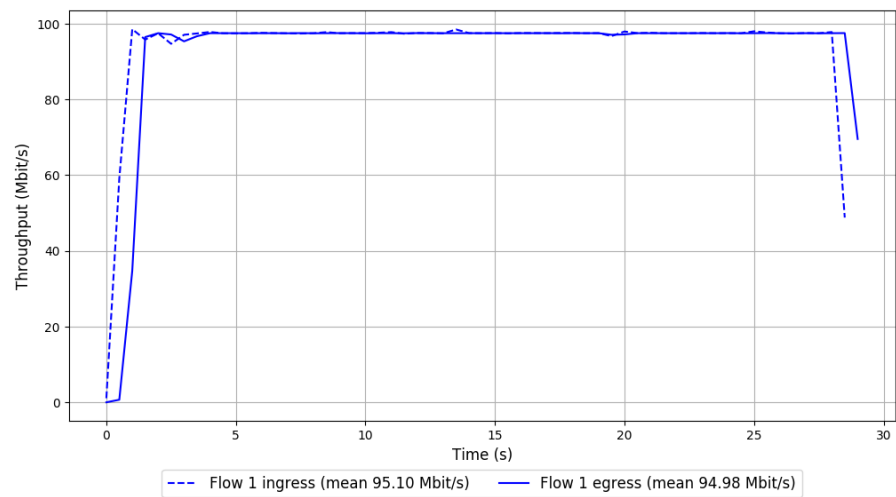


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-09-18 01:39:47  
End at: 2019-09-18 01:40:17  
Local clock offset: 1.598 ms  
Remote clock offset: -9.301 ms

# Below is generated by plot.py at 2019-09-18 02:27:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.98 Mbit/s  
95th percentile per-packet one-way delay: 107.633 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 94.98 Mbit/s  
95th percentile per-packet one-way delay: 107.633 ms  
Loss rate: 0.15%

Run 4: Report of Indigo-MusesC3 — Data Link

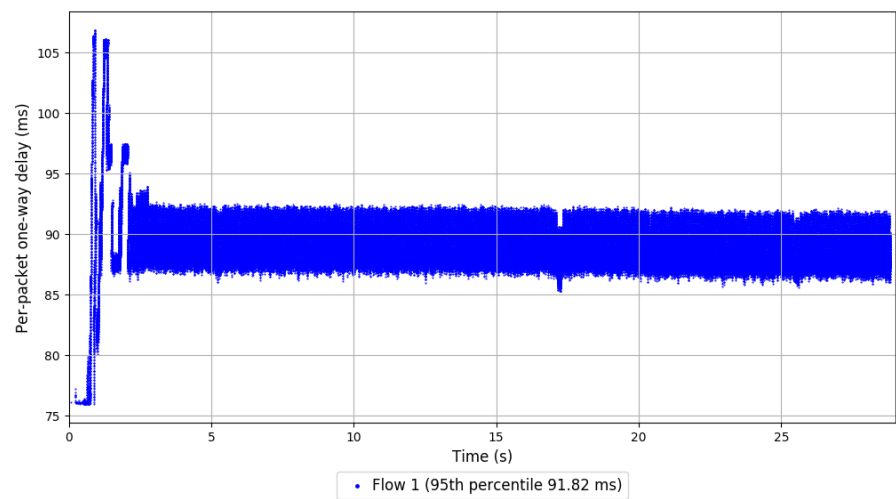
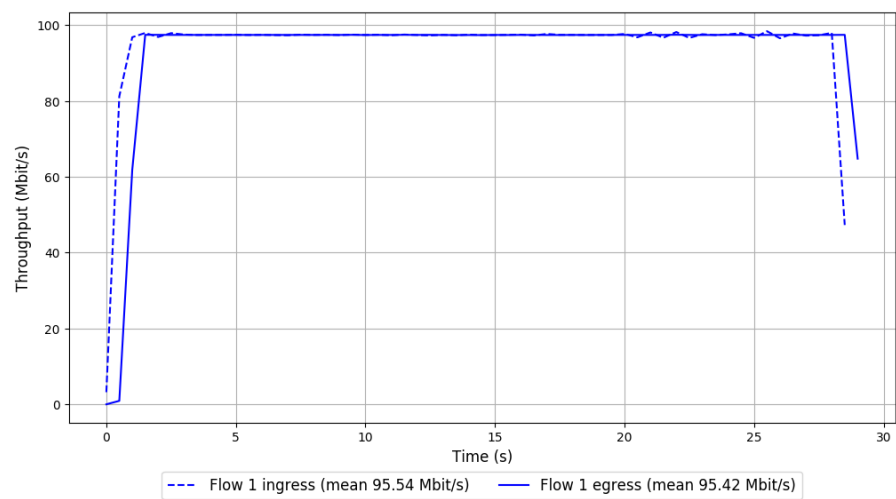


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-09-18 02:08:18  
End at: 2019-09-18 02:08:48  
Local clock offset: -10.826 ms  
Remote clock offset: -9.435 ms

# Below is generated by plot.py at 2019-09-18 02:28:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.42 Mbit/s  
95th percentile per-packet one-way delay: 91.817 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 95.42 Mbit/s  
95th percentile per-packet one-way delay: 91.817 ms  
Loss rate: 0.08%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-09-18 00:04:34

End at: 2019-09-18 00:05:04

Local clock offset: 8.505 ms

Remote clock offset: -7.564 ms

# Below is generated by plot.py at 2019-09-18 02:28:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.32 Mbit/s

95th percentile per-packet one-way delay: 105.981 ms

Loss rate: 0.72%

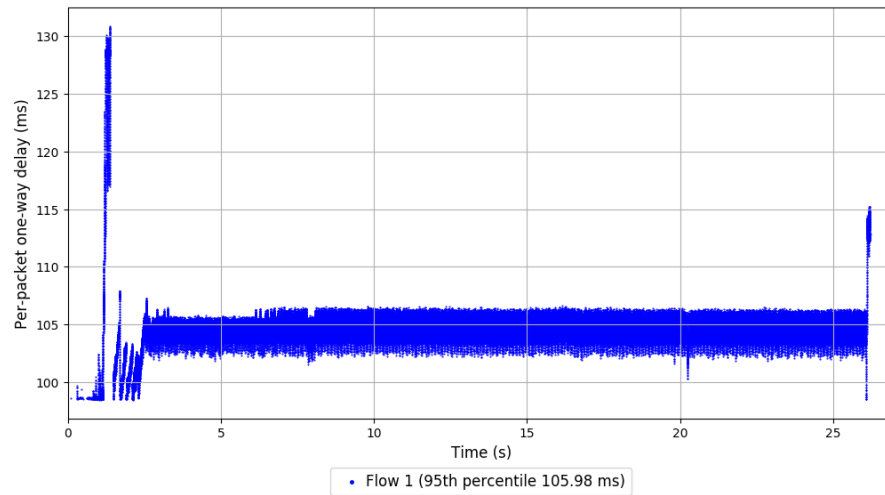
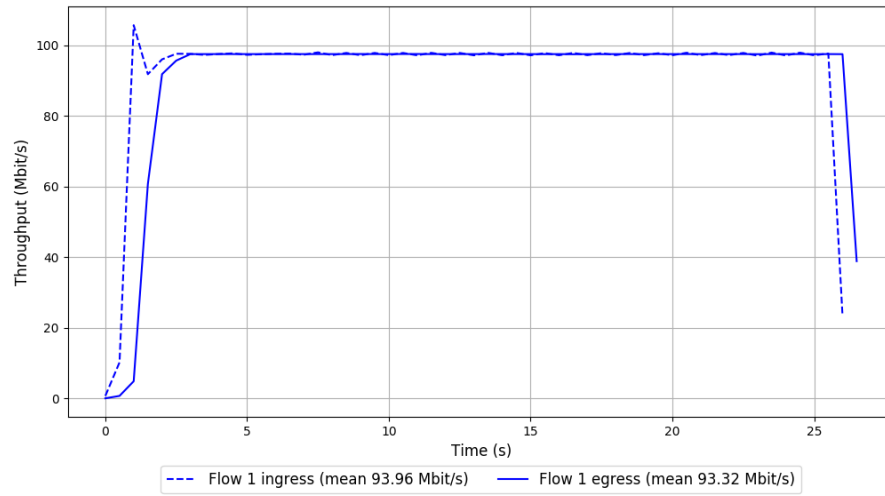
-- Flow 1:

Average throughput: 93.32 Mbit/s

95th percentile per-packet one-way delay: 105.981 ms

Loss rate: 0.72%

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



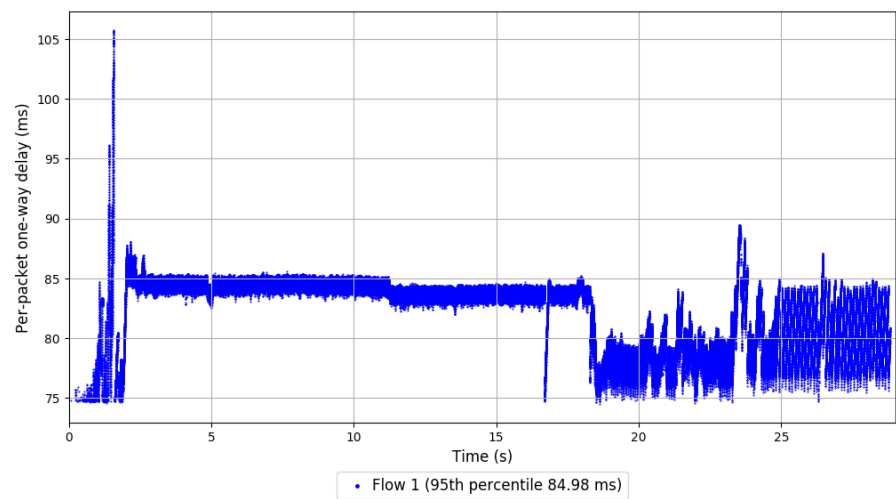
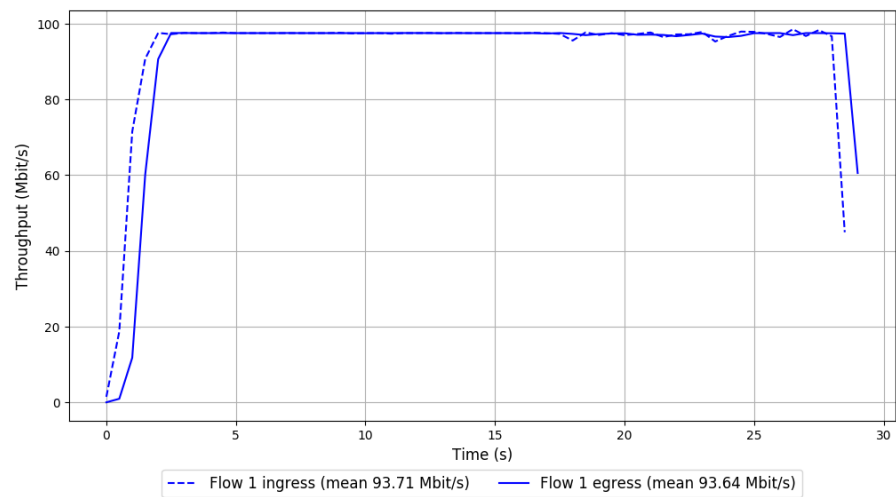


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-09-18 00:32:52  
End at: 2019-09-18 00:33:22  
Local clock offset: -0.309 ms  
Remote clock offset: -8.798 ms

# Below is generated by plot.py at 2019-09-18 02:28:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 93.64 Mbit/s  
95th percentile per-packet one-way delay: 84.984 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 93.64 Mbit/s  
95th percentile per-packet one-way delay: 84.984 ms  
Loss rate: 0.05%

Run 2: Report of Indigo-MusesC5 — Data Link

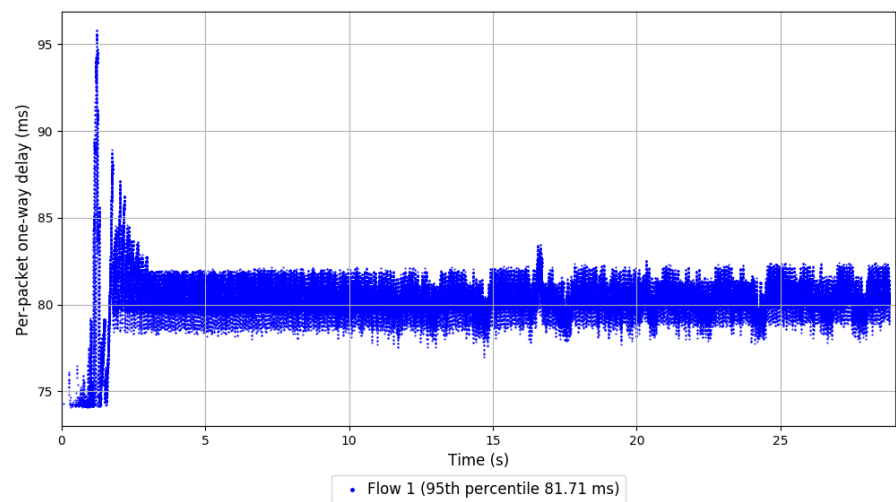
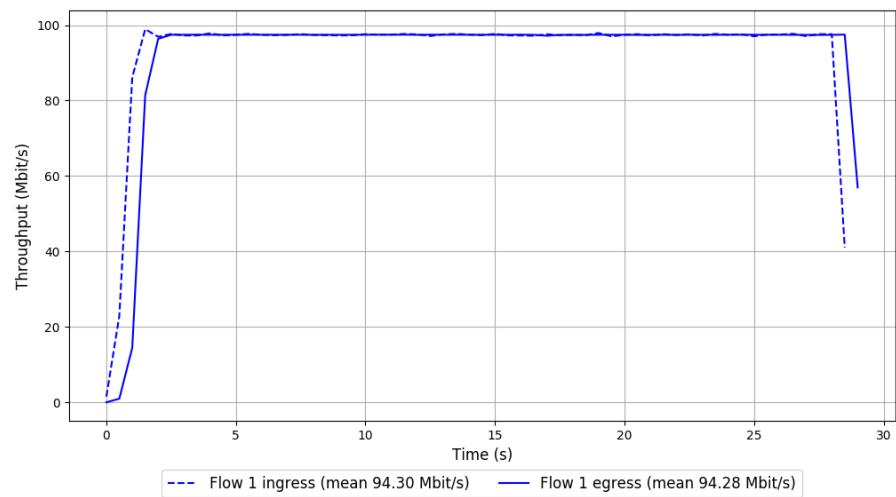


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-09-18 01:01:04  
End at: 2019-09-18 01:01:34  
Local clock offset: -7.735 ms  
Remote clock offset: -9.542 ms

# Below is generated by plot.py at 2019-09-18 02:28:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.28 Mbit/s  
95th percentile per-packet one-way delay: 81.711 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 94.28 Mbit/s  
95th percentile per-packet one-way delay: 81.711 ms  
Loss rate: 0.00%

Run 3: Report of Indigo-MusesC5 — Data Link

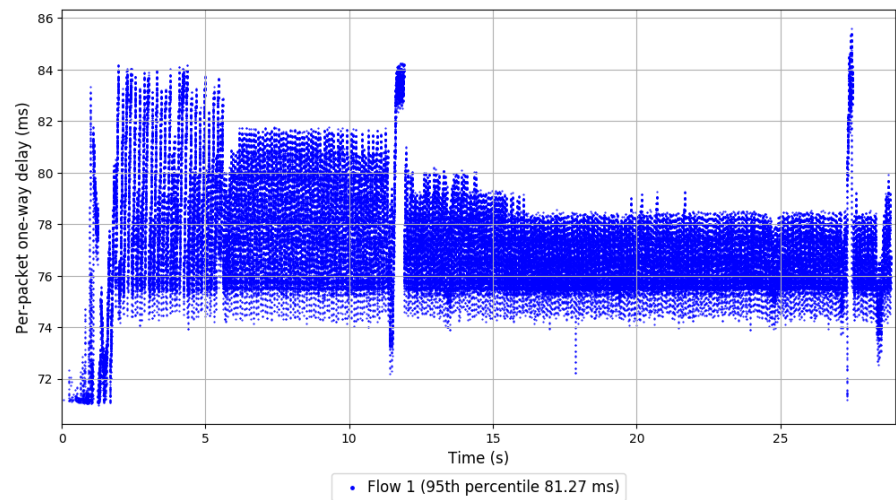
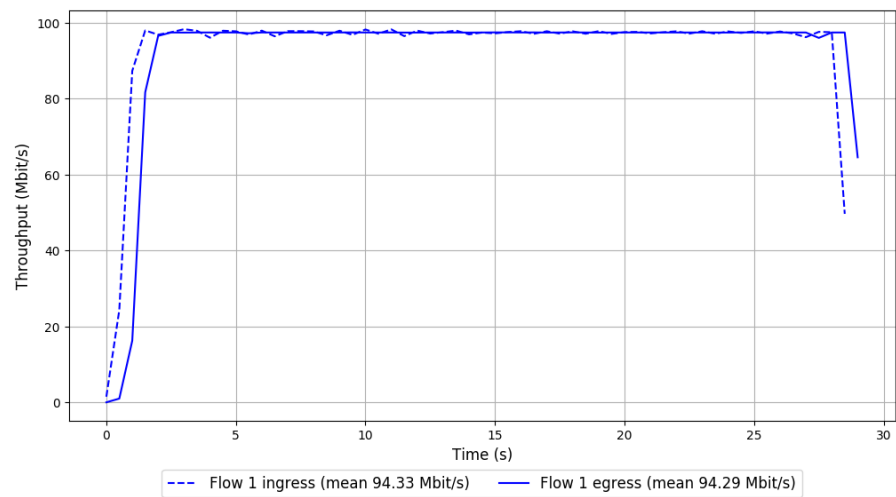


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-09-18 01:29:11  
End at: 2019-09-18 01:29:41  
Local clock offset: 2.352 ms  
Remote clock offset: -13.522 ms

# Below is generated by plot.py at 2019-09-18 02:28:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.29 Mbit/s  
95th percentile per-packet one-way delay: 81.269 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 94.29 Mbit/s  
95th percentile per-packet one-way delay: 81.269 ms  
Loss rate: 0.02%

Run 4: Report of Indigo-MusesC5 — Data Link

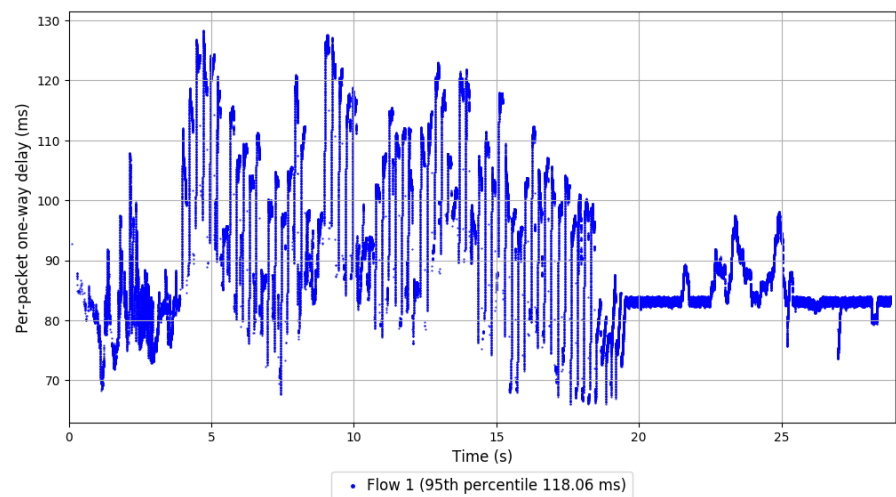
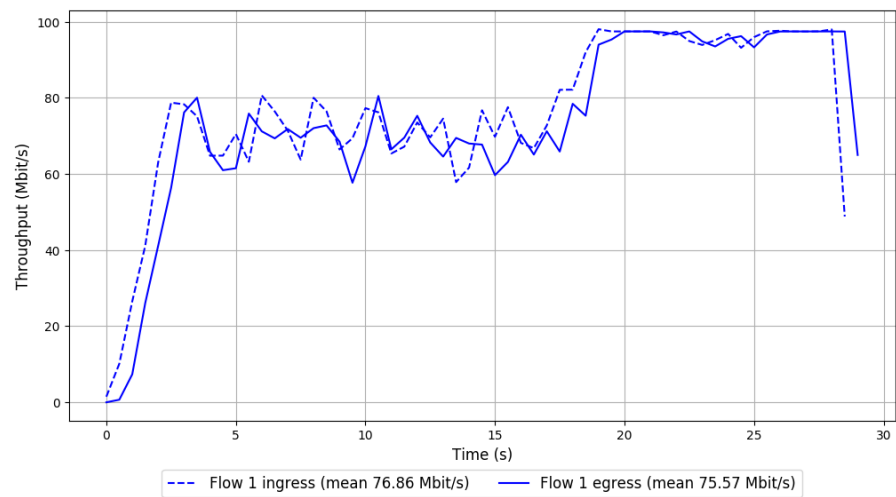


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-09-18 01:57:43  
End at: 2019-09-18 01:58:13  
Local clock offset: 2.541 ms  
Remote clock offset: -19.417 ms

# Below is generated by plot.py at 2019-09-18 02:28:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 75.57 Mbit/s  
95th percentile per-packet one-way delay: 118.059 ms  
Loss rate: 1.71%  
-- Flow 1:  
Average throughput: 75.57 Mbit/s  
95th percentile per-packet one-way delay: 118.059 ms  
Loss rate: 1.71%

Run 5: Report of Indigo-MusesC5 — Data Link





Run 1: Statistics of Indigo-MusesD

Start at: 2019-09-18 00:25:50

End at: 2019-09-18 00:26:20

Local clock offset: 1.407 ms

Remote clock offset: -8.998 ms

# Below is generated by plot.py at 2019-09-18 02:29:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.31 Mbit/s

95th percentile per-packet one-way delay: 83.177 ms

Loss rate: 0.04%

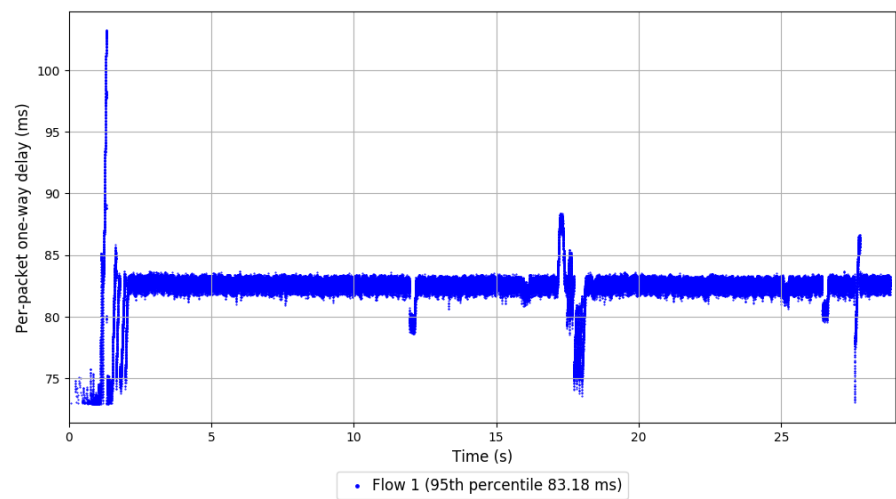
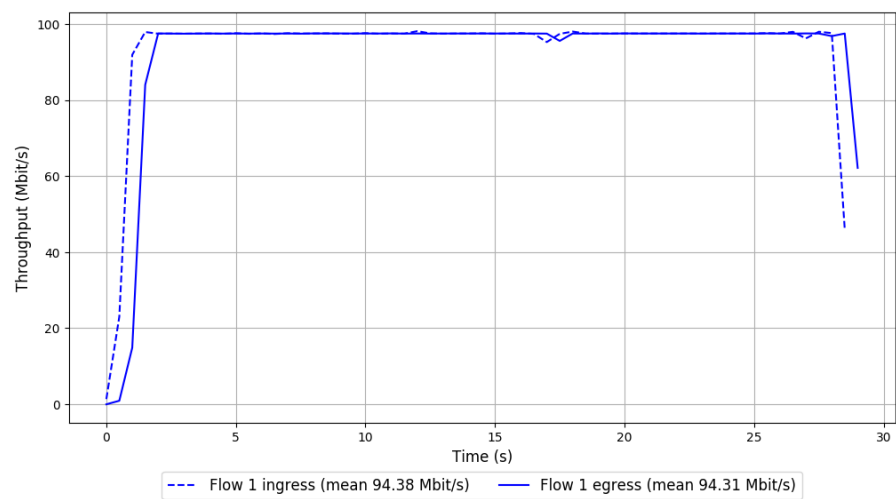
-- Flow 1:

Average throughput: 94.31 Mbit/s

95th percentile per-packet one-way delay: 83.177 ms

Loss rate: 0.04%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-09-18 00:54:04

End at: 2019-09-18 00:54:34

Local clock offset: -6.193 ms

Remote clock offset: -9.731 ms

# Below is generated by plot.py at 2019-09-18 02:29:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.71 Mbit/s

95th percentile per-packet one-way delay: 82.356 ms

Loss rate: 0.30%

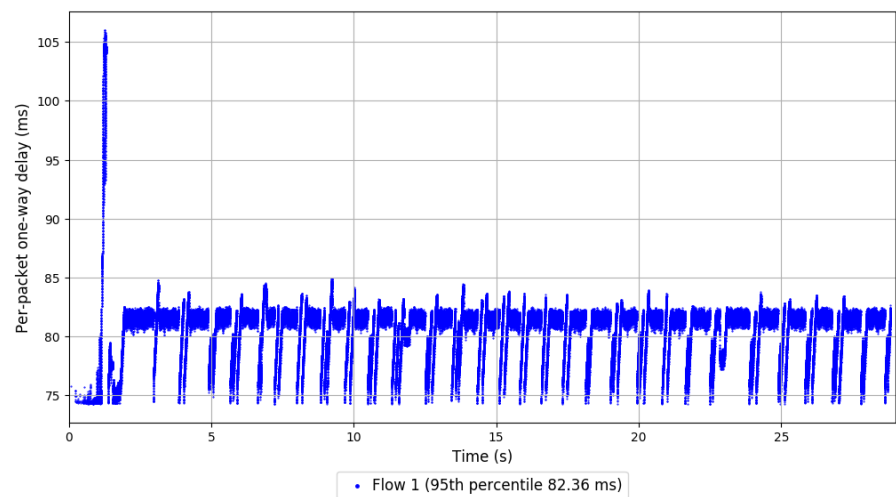
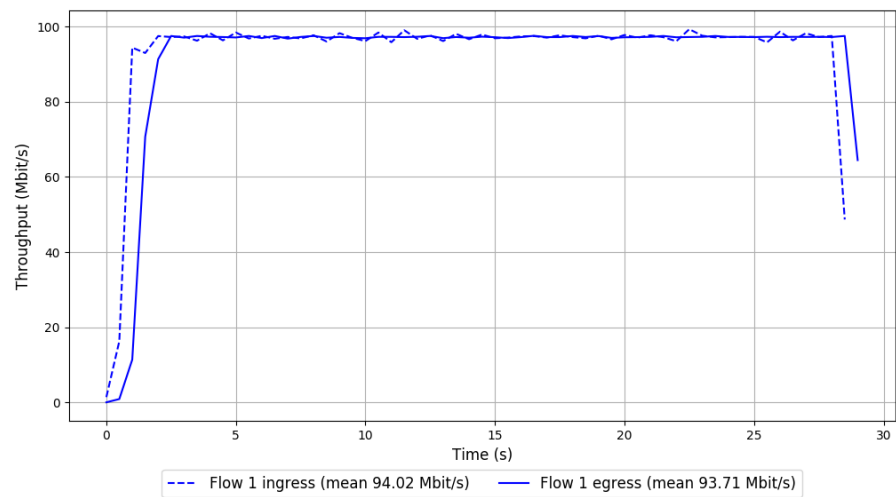
-- Flow 1:

Average throughput: 93.71 Mbit/s

95th percentile per-packet one-way delay: 82.356 ms

Loss rate: 0.30%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-09-18 01:22:14

End at: 2019-09-18 01:22:44

Local clock offset: 1.024 ms

Remote clock offset: -8.595 ms

# Below is generated by plot.py at 2019-09-18 02:29:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.21 Mbit/s

95th percentile per-packet one-way delay: 85.020 ms

Loss rate: 0.09%

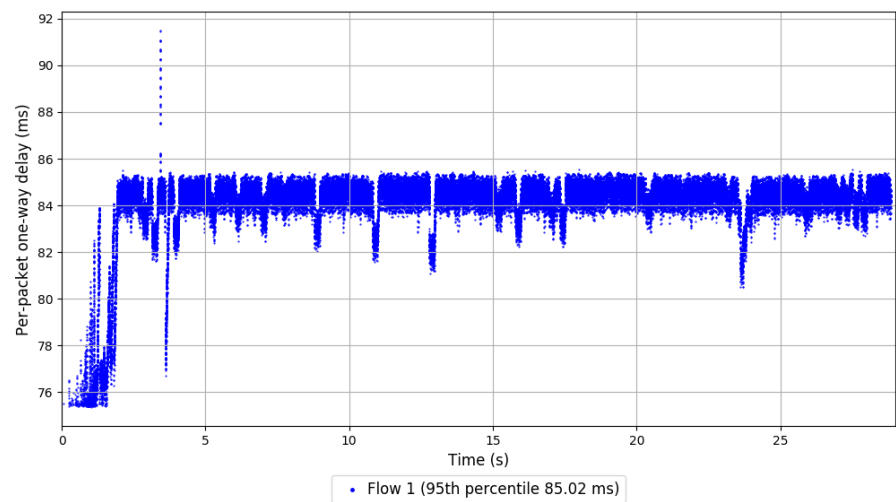
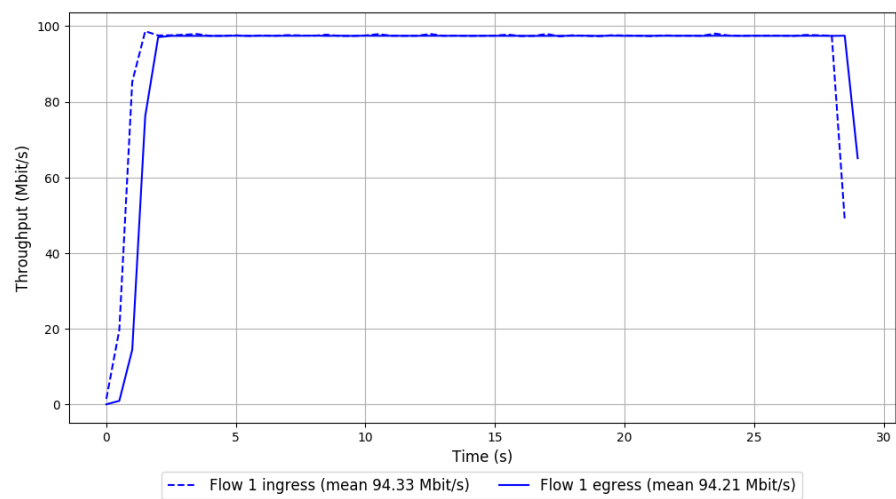
-- Flow 1:

Average throughput: 94.21 Mbit/s

95th percentile per-packet one-way delay: 85.020 ms

Loss rate: 0.09%

Run 3: Report of Indigo-MusesD — Data Link

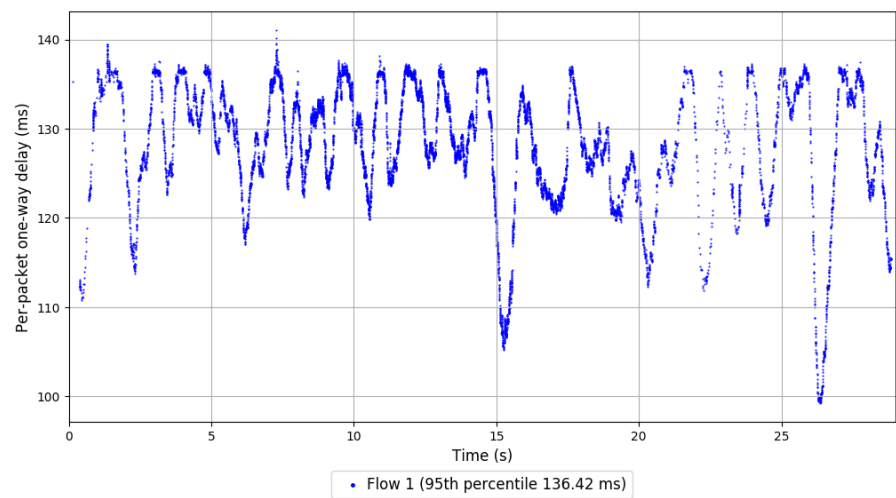
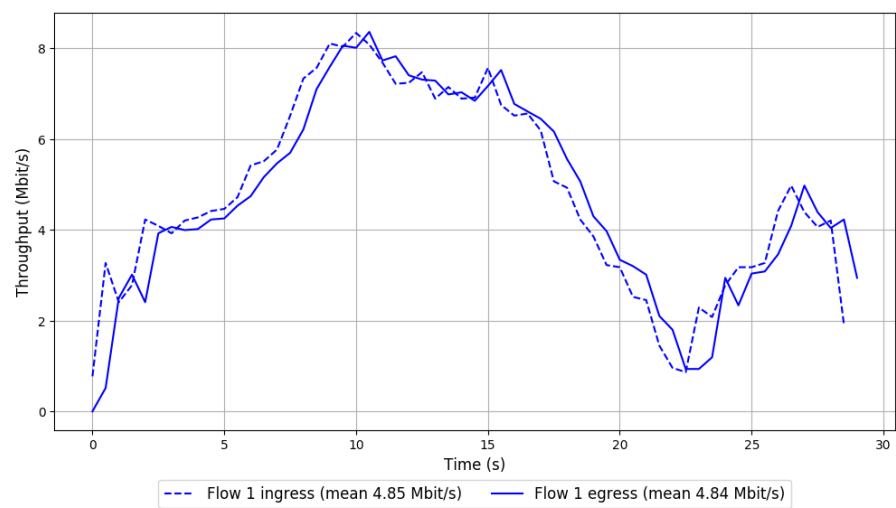


Run 4: Statistics of Indigo-MusesD

Start at: 2019-09-18 01:50:36  
End at: 2019-09-18 01:51:06  
Local clock offset: 1.619 ms  
Remote clock offset: -46.998 ms

# Below is generated by plot.py at 2019-09-18 02:29:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 4.84 Mbit/s  
95th percentile per-packet one-way delay: 136.416 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 4.84 Mbit/s  
95th percentile per-packet one-way delay: 136.416 ms  
Loss rate: 0.30%

Run 4: Report of Indigo-MusesD — Data Link



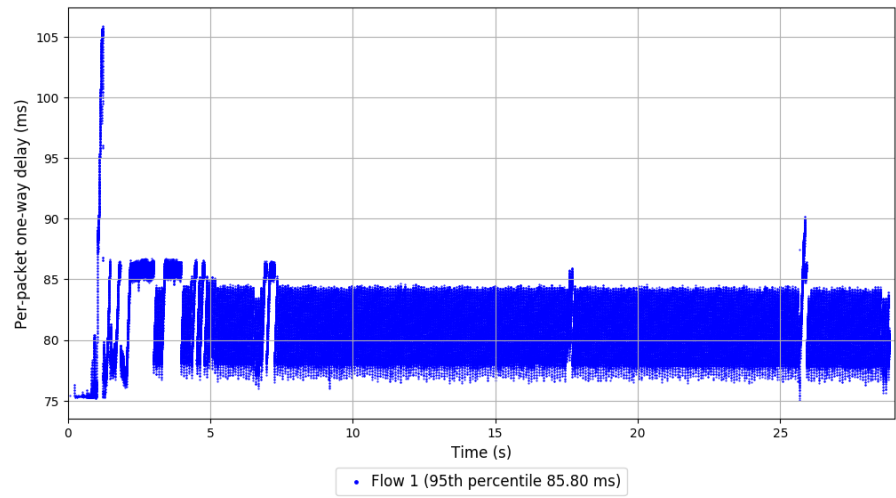
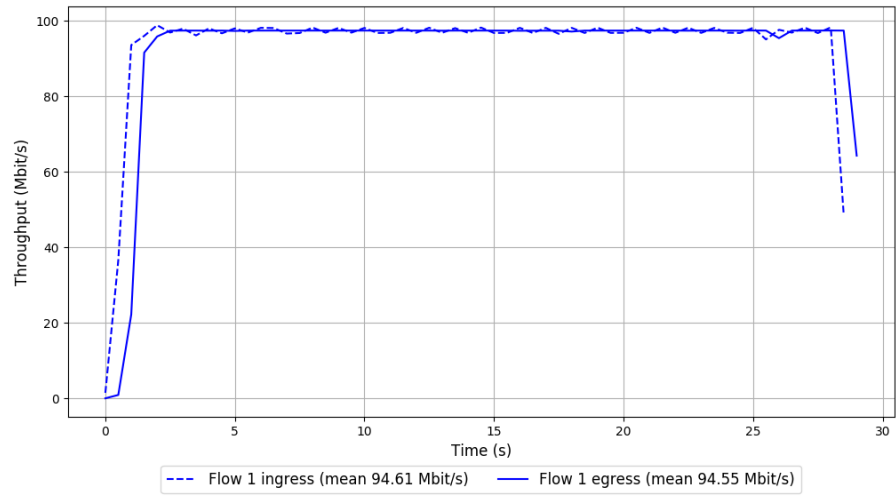


Run 5: Statistics of Indigo-MusesD

Start at: 2019-09-18 02:18:58  
End at: 2019-09-18 02:19:28  
Local clock offset: -20.157 ms  
Remote clock offset: -10.279 ms

# Below is generated by plot.py at 2019-09-18 02:29:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.55 Mbit/s  
95th percentile per-packet one-way delay: 85.803 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 94.55 Mbit/s  
95th percentile per-packet one-way delay: 85.803 ms  
Loss rate: 0.04%

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



Run 1: Statistics of Indigo-MusesT

Start at: 2019-09-18 00:16:26

End at: 2019-09-18 00:16:57

Local clock offset: 3.685 ms

Remote clock offset: -7.728 ms

# Below is generated by plot.py at 2019-09-18 02:29:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.86 Mbit/s

95th percentile per-packet one-way delay: 88.088 ms

Loss rate: 2.82%

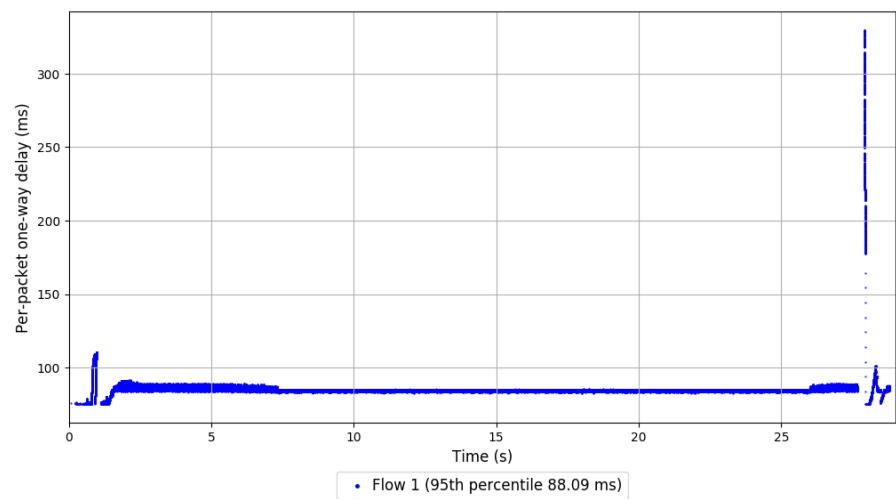
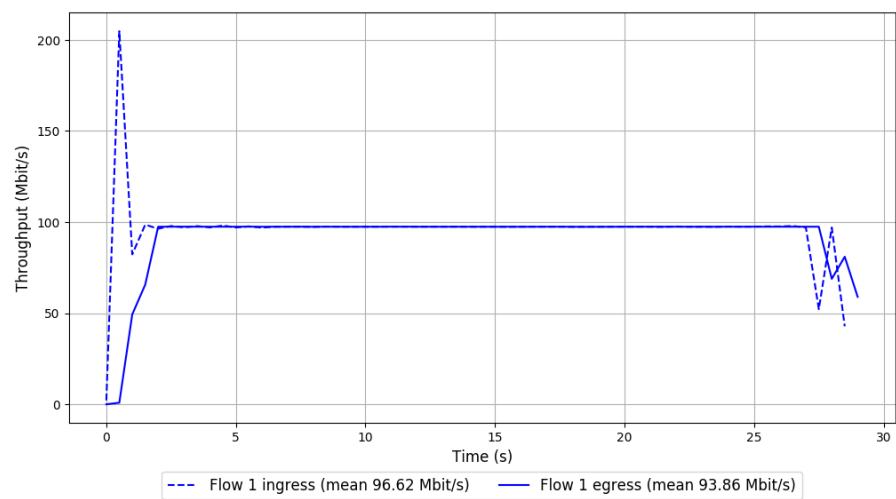
-- Flow 1:

Average throughput: 93.86 Mbit/s

95th percentile per-packet one-way delay: 88.088 ms

Loss rate: 2.82%

Run 1: Report of Indigo-MusesT — Data Link

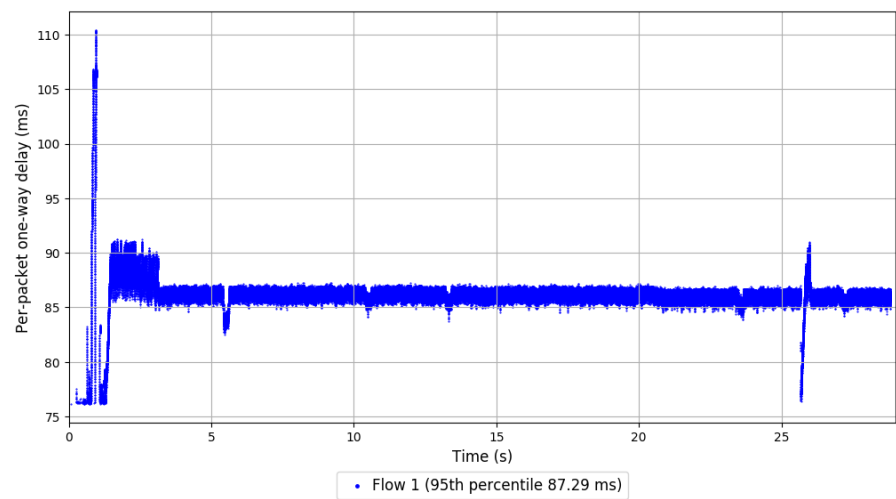
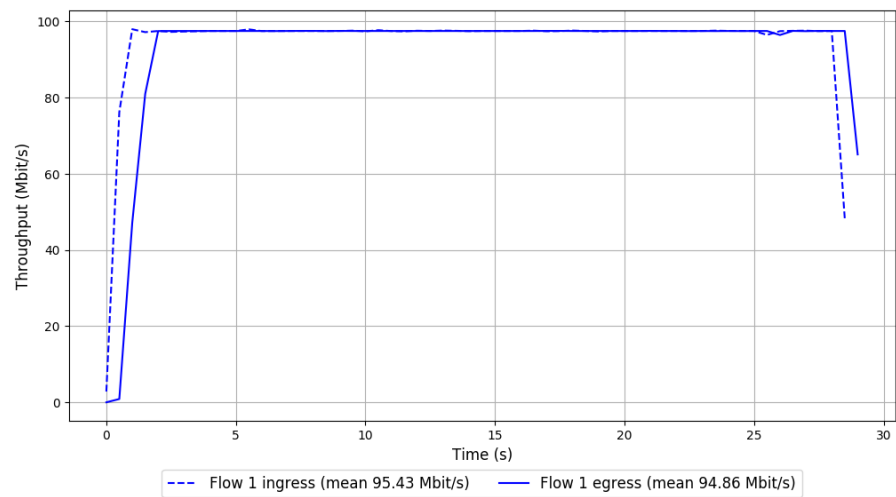


Run 2: Statistics of Indigo-MusesT

Start at: 2019-09-18 00:44:39  
End at: 2019-09-18 00:45:09  
Local clock offset: -5.074 ms  
Remote clock offset: -7.856 ms

# Below is generated by plot.py at 2019-09-18 02:29:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.86 Mbit/s  
95th percentile per-packet one-way delay: 87.289 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 94.86 Mbit/s  
95th percentile per-packet one-way delay: 87.289 ms  
Loss rate: 0.57%

Run 2: Report of Indigo-MusesT — Data Link

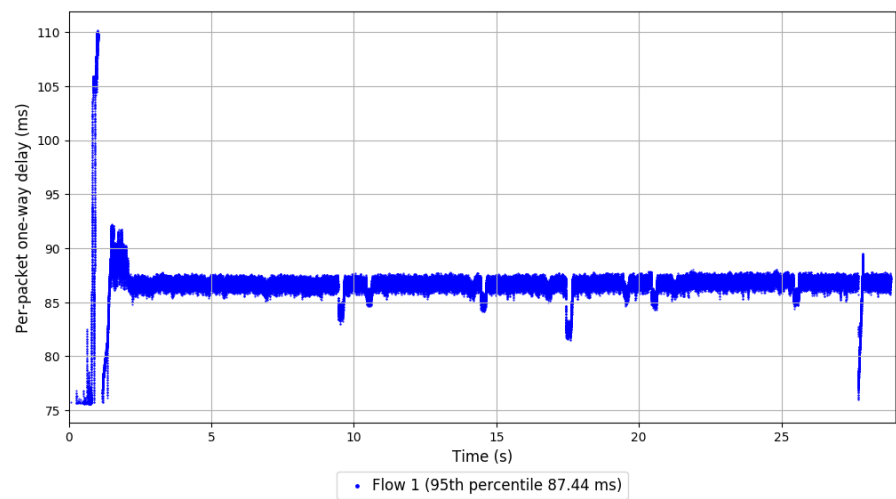
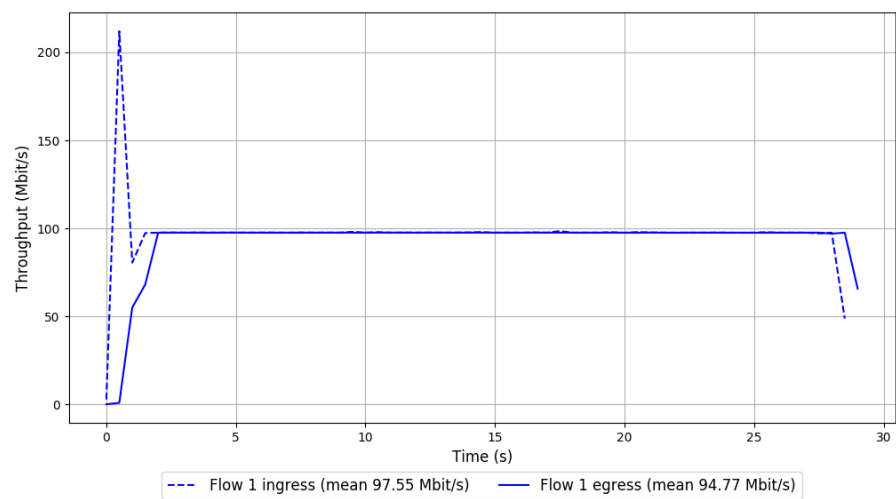


Run 3: Statistics of Indigo-MusesT

Start at: 2019-09-18 01:12:52  
End at: 2019-09-18 01:13:22  
Local clock offset: -0.718 ms  
Remote clock offset: -9.801 ms

# Below is generated by plot.py at 2019-09-18 02:29:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.77 Mbit/s  
95th percentile per-packet one-way delay: 87.437 ms  
Loss rate: 2.81%  
-- Flow 1:  
Average throughput: 94.77 Mbit/s  
95th percentile per-packet one-way delay: 87.437 ms  
Loss rate: 2.81%

Run 3: Report of Indigo-MusesT — Data Link



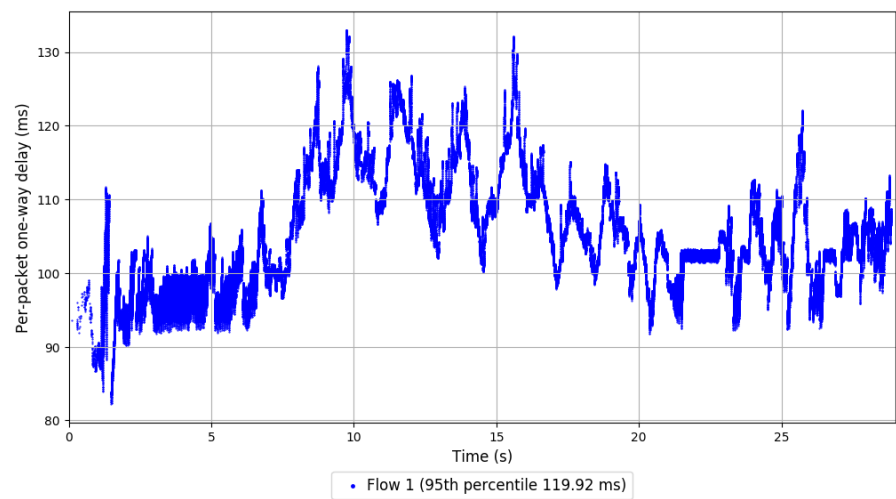
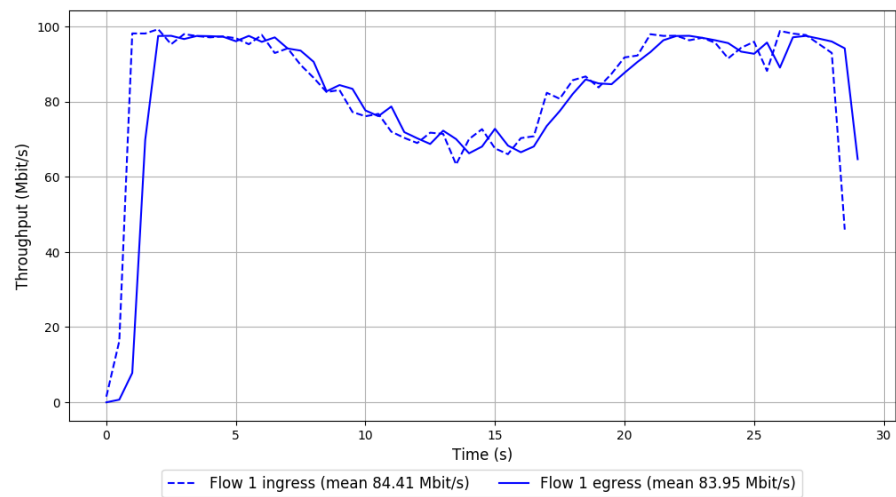


Run 4: Statistics of Indigo-MusesT

Start at: 2019-09-18 01:41:00  
End at: 2019-09-18 01:41:30  
Local clock offset: 1.625 ms  
Remote clock offset: -11.437 ms

# Below is generated by plot.py at 2019-09-18 02:29:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 83.95 Mbit/s  
95th percentile per-packet one-way delay: 119.922 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 83.95 Mbit/s  
95th percentile per-packet one-way delay: 119.922 ms  
Loss rate: 0.49%

Run 4: Report of Indigo-MusesT — Data Link

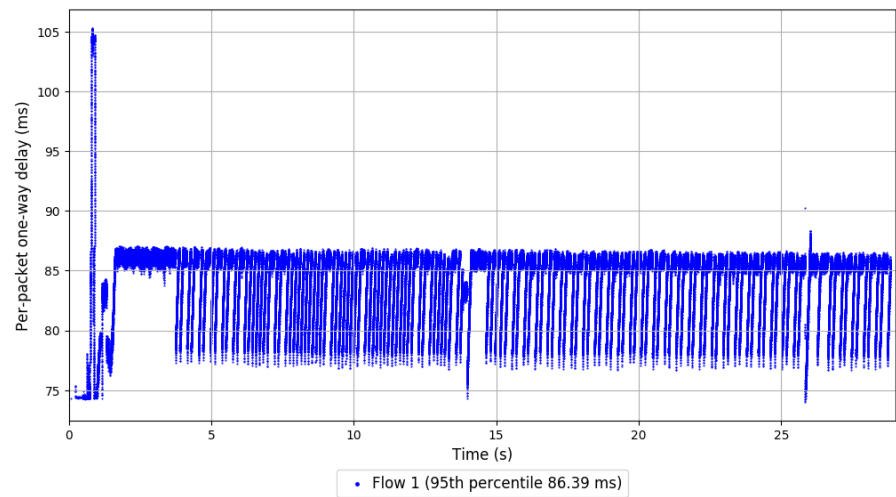
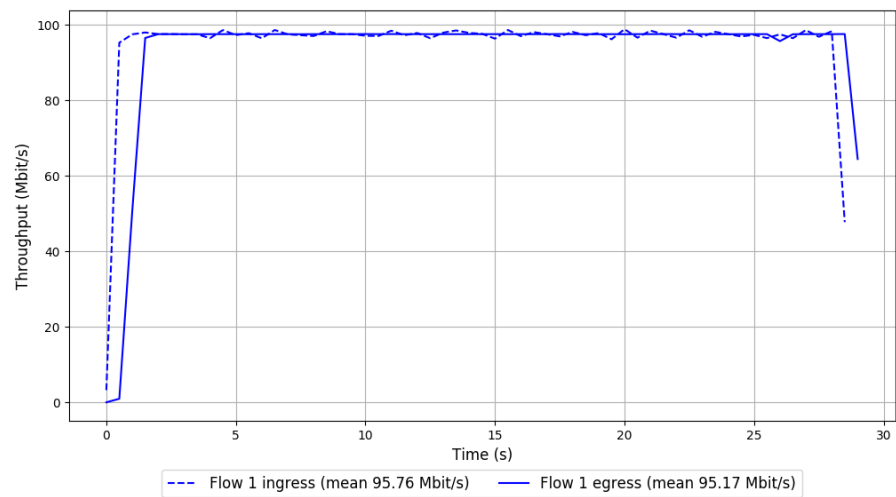


Run 5: Statistics of Indigo-MusesT

Start at: 2019-09-18 02:09:30  
End at: 2019-09-18 02:10:00  
Local clock offset: -12.182 ms  
Remote clock offset: -10.878 ms

# Below is generated by plot.py at 2019-09-18 02:30:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.17 Mbit/s  
95th percentile per-packet one-way delay: 86.389 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 95.17 Mbit/s  
95th percentile per-packet one-way delay: 86.389 ms  
Loss rate: 0.58%

Run 5: Report of Indigo-MusesT — Data Link

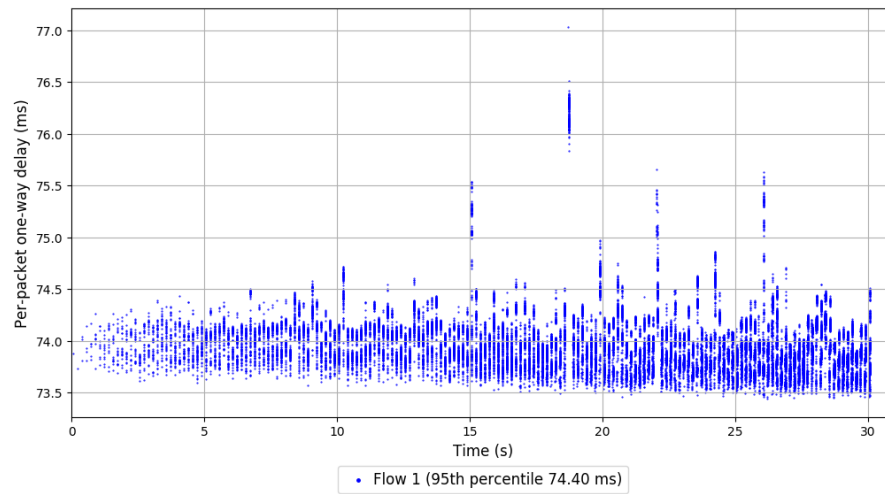
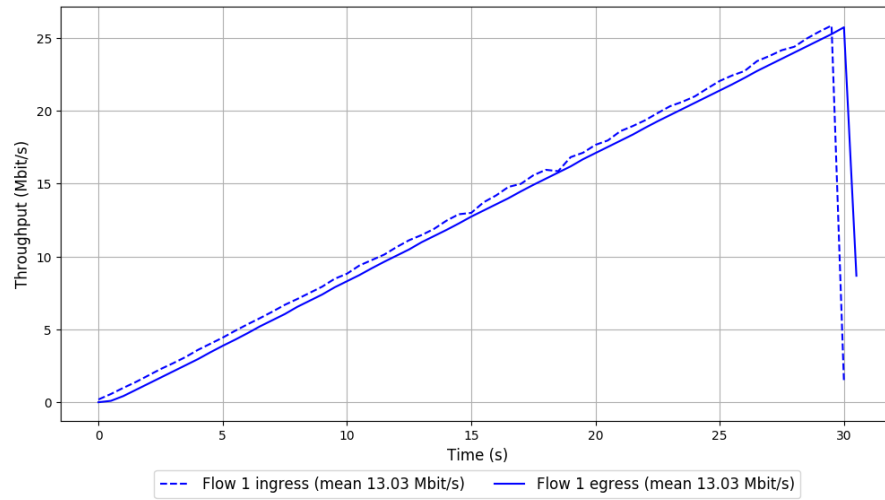


Run 1: Statistics of LEDBAT

Start at: 2019-09-18 00:08:15  
End at: 2019-09-18 00:08:45  
Local clock offset: 6.681 ms  
Remote clock offset: -8.203 ms

# Below is generated by plot.py at 2019-09-18 02:30:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 13.03 Mbit/s  
95th percentile per-packet one-way delay: 74.404 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 13.03 Mbit/s  
95th percentile per-packet one-way delay: 74.404 ms  
Loss rate: 0.00%

# Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-09-18 00:36:27

End at: 2019-09-18 00:36:57

Local clock offset: -1.655 ms

Remote clock offset: -9.73 ms

# Below is generated by plot.py at 2019-09-18 02:30:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.13 Mbit/s

95th percentile per-packet one-way delay: 73.578 ms

Loss rate: 0.00%

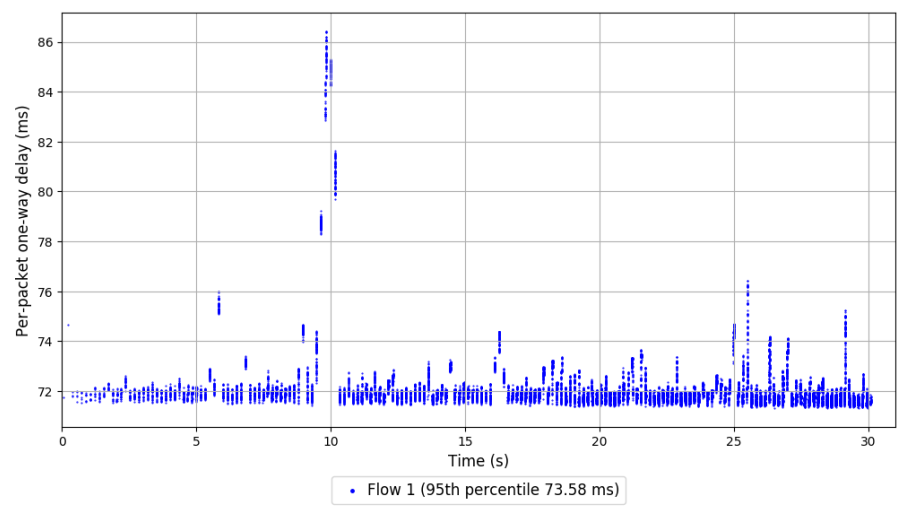
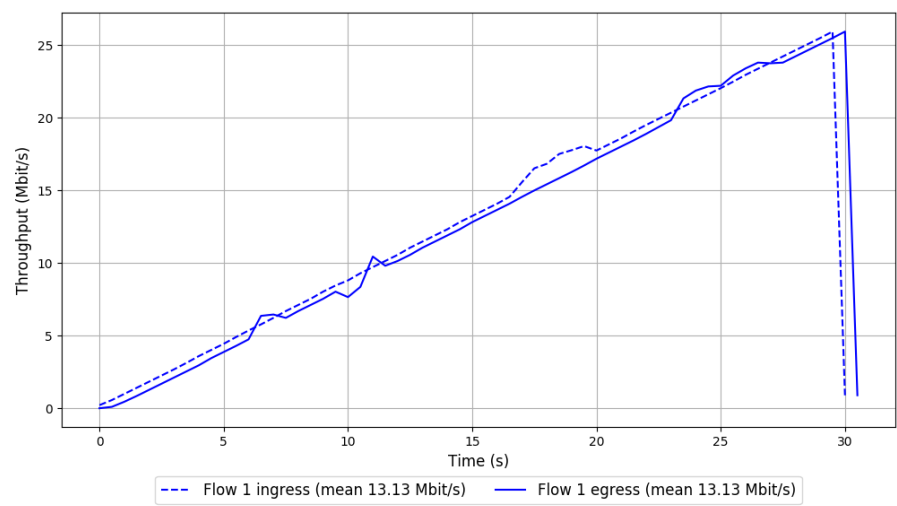
-- Flow 1:

Average throughput: 13.13 Mbit/s

95th percentile per-packet one-way delay: 73.578 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



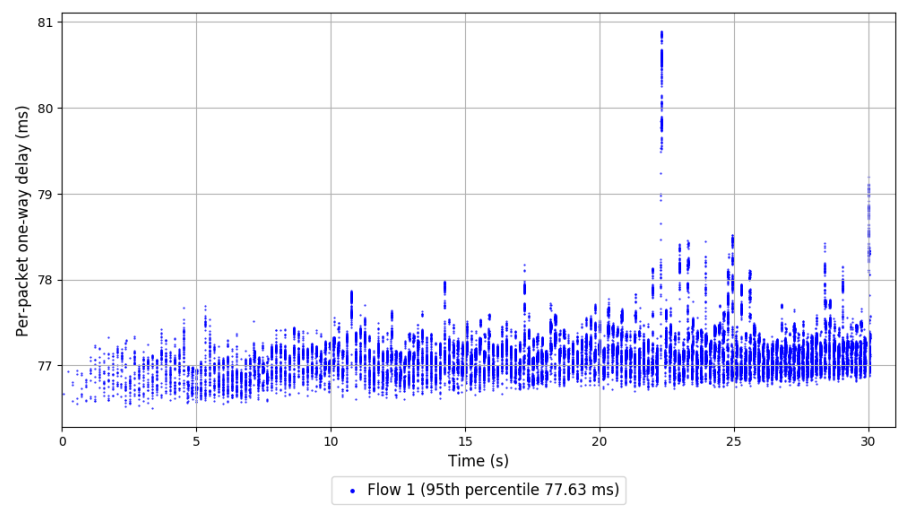
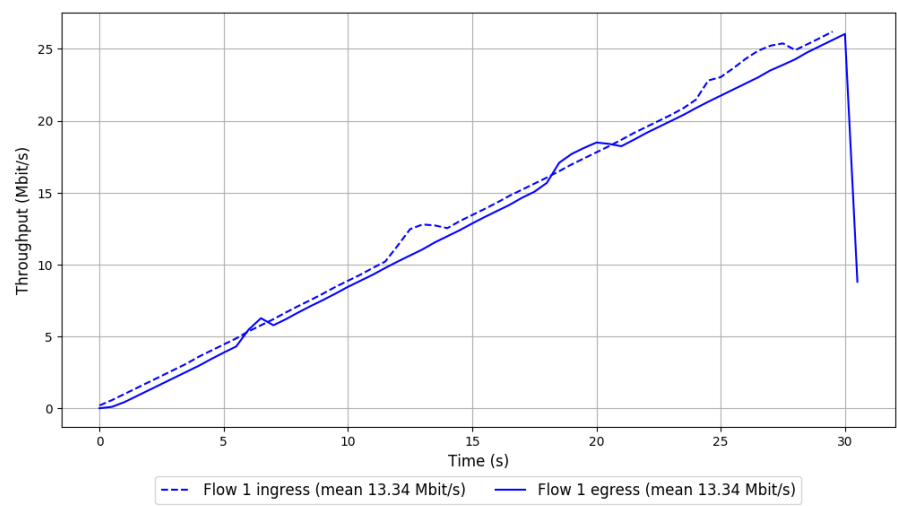


Run 3: Statistics of LEDBAT

Start at: 2019-09-18 01:04:40  
End at: 2019-09-18 01:05:10  
Local clock offset: -4.501 ms  
Remote clock offset: -8.476 ms

# Below is generated by plot.py at 2019-09-18 02:30:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 13.34 Mbit/s  
95th percentile per-packet one-way delay: 77.631 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 13.34 Mbit/s  
95th percentile per-packet one-way delay: 77.631 ms  
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

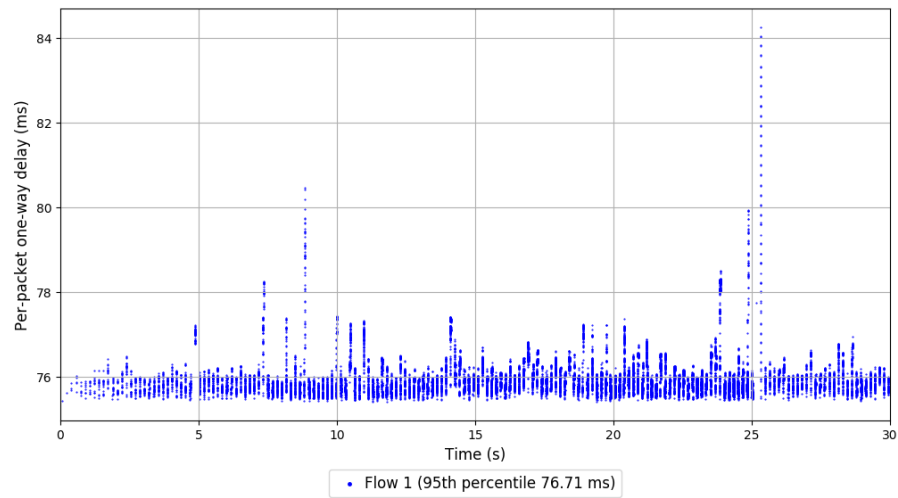
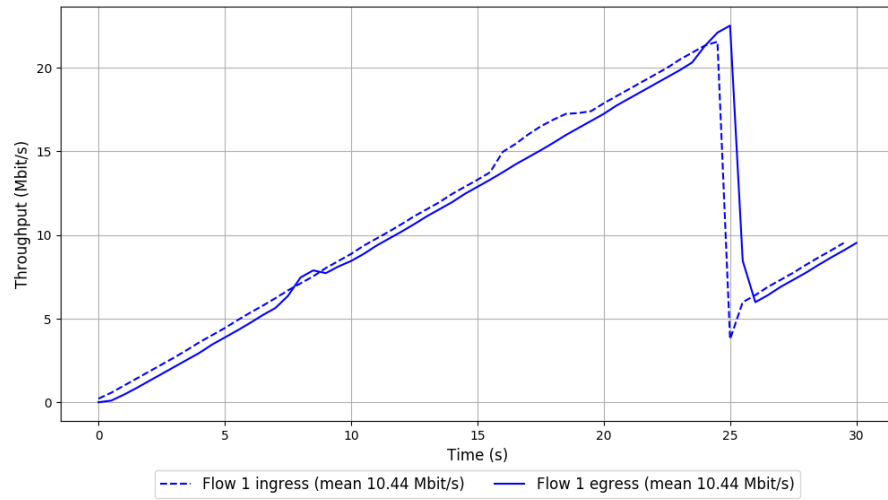


Run 4: Statistics of LEDBAT

Start at: 2019-09-18 01:32:47  
End at: 2019-09-18 01:33:17  
Local clock offset: 1.641 ms  
Remote clock offset: -9.933 ms

# Below is generated by plot.py at 2019-09-18 02:30:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 10.44 Mbit/s  
95th percentile per-packet one-way delay: 76.713 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 10.44 Mbit/s  
95th percentile per-packet one-way delay: 76.713 ms  
Loss rate: 0.01%

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

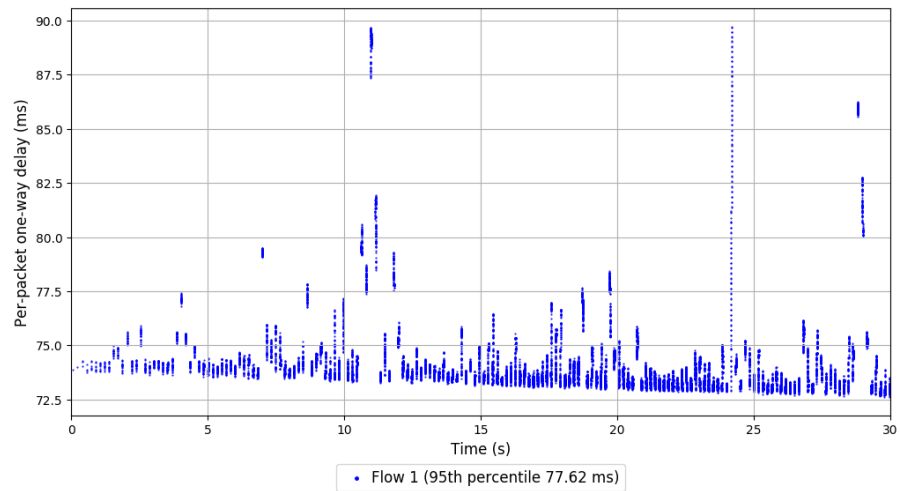
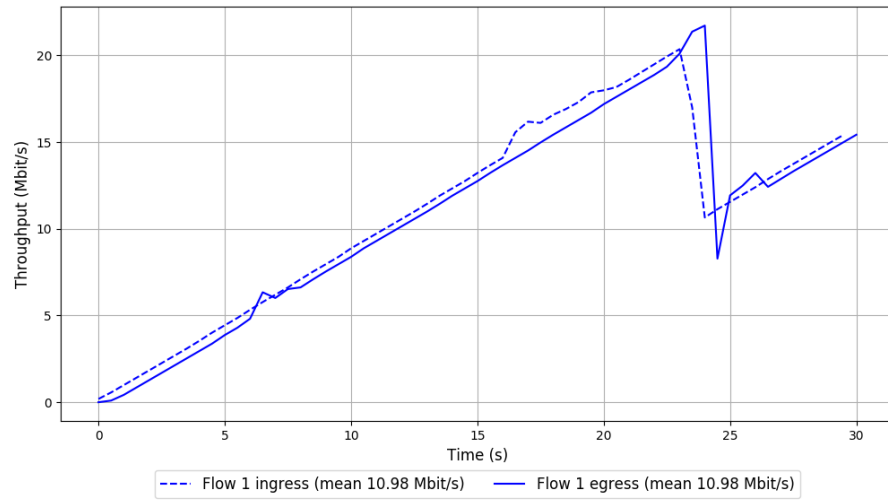


Run 5: Statistics of LEDBAT

Start at: 2019-09-18 02:01:18  
End at: 2019-09-18 02:01:48  
Local clock offset: 1.305 ms  
Remote clock offset: -10.703 ms

# Below is generated by plot.py at 2019-09-18 02:30:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 10.98 Mbit/s  
95th percentile per-packet one-way delay: 77.619 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 10.98 Mbit/s  
95th percentile per-packet one-way delay: 77.619 ms  
Loss rate: 0.00%

# Run 5: Report of LEDBAT — Data Link

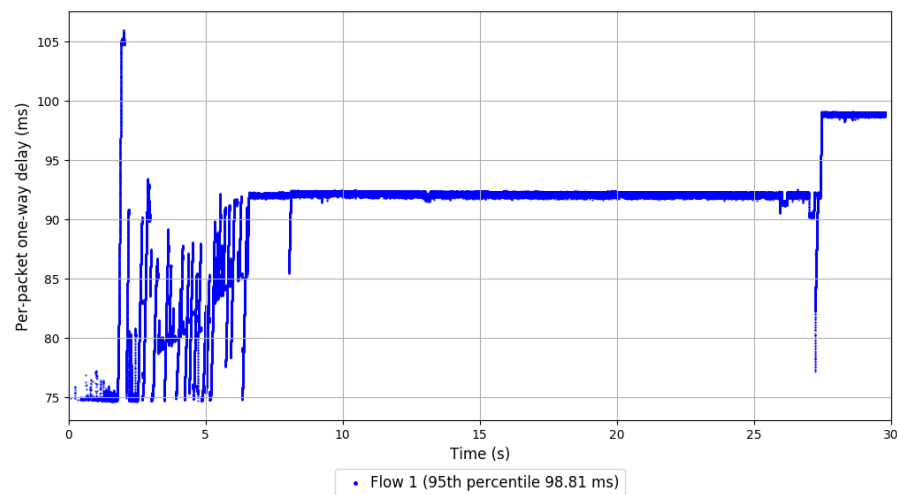
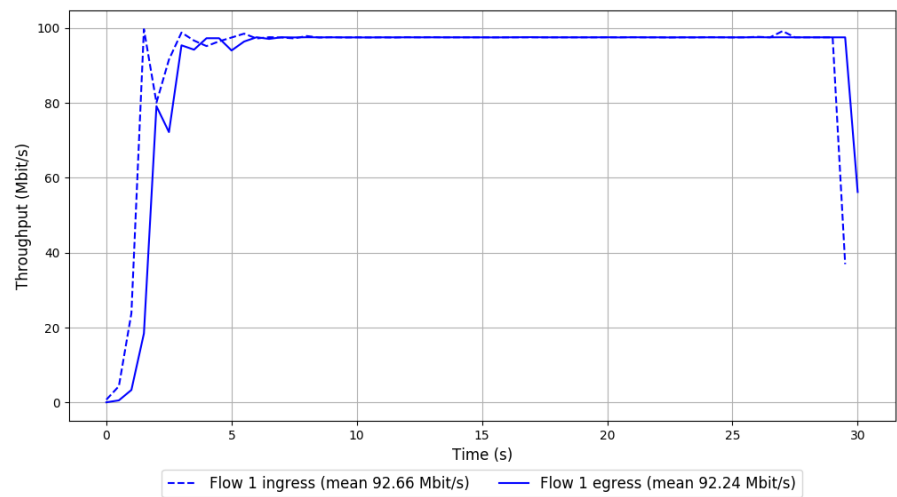


Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-09-18 00:09:23  
End at: 2019-09-18 00:09:53  
Local clock offset: 6.147 ms  
Remote clock offset: -6.176 ms

# Below is generated by plot.py at 2019-09-18 02:30:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.24 Mbit/s  
95th percentile per-packet one-way delay: 98.806 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 92.24 Mbit/s  
95th percentile per-packet one-way delay: 98.806 ms  
Loss rate: 0.37%

Run 1: Report of Muses\_DecisionTree — Data Link



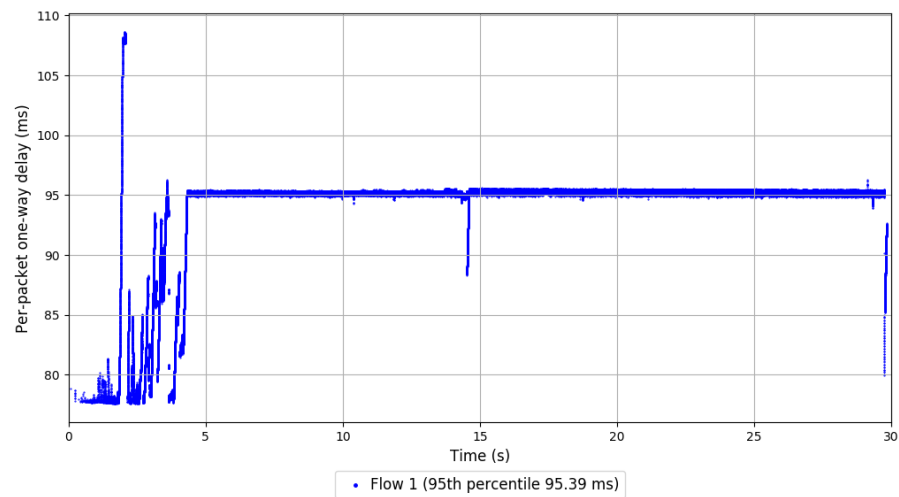
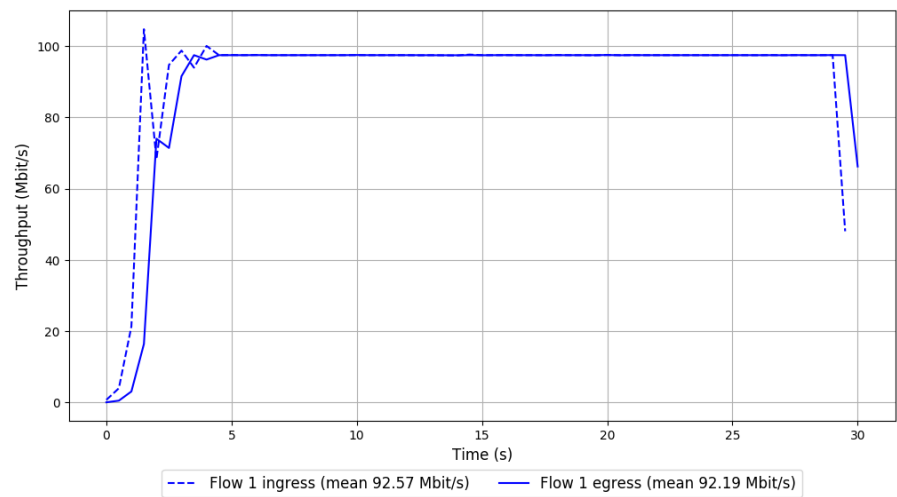


Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-09-18 00:37:36  
End at: 2019-09-18 00:38:06  
Local clock offset: -2.863 ms  
Remote clock offset: -7.985 ms

# Below is generated by plot.py at 2019-09-18 02:30:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.19 Mbit/s  
95th percentile per-packet one-way delay: 95.393 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 92.19 Mbit/s  
95th percentile per-packet one-way delay: 95.393 ms  
Loss rate: 0.37%

Run 2: Report of Muses\_DecisionTree — Data Link

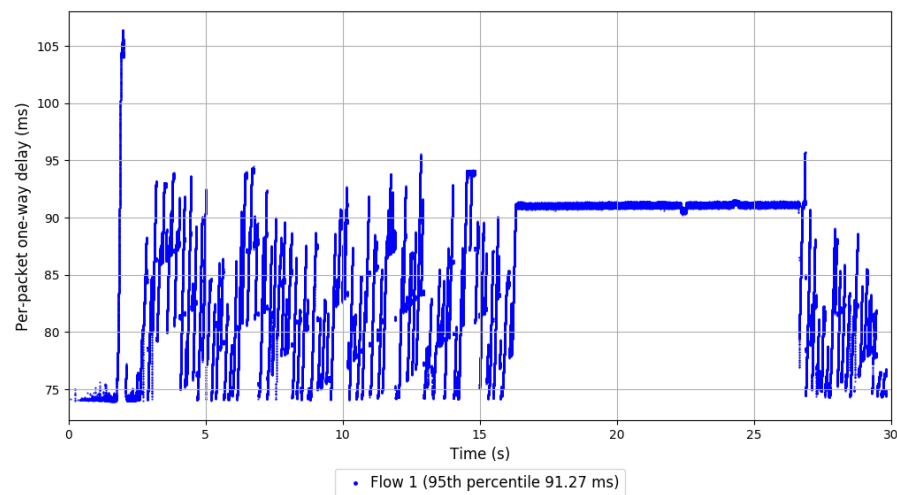
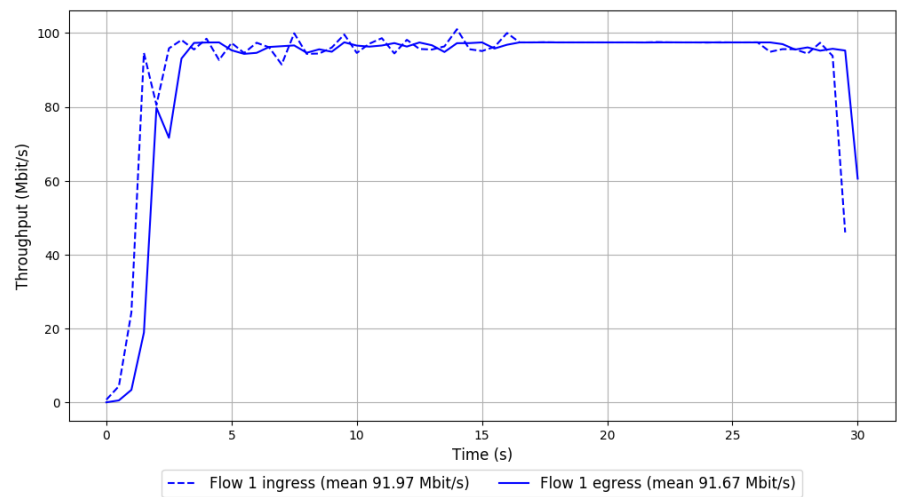


Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-09-18 01:05:49  
End at: 2019-09-18 01:06:19  
Local clock offset: -2.88 ms  
Remote clock offset: -8.656 ms

# Below is generated by plot.py at 2019-09-18 02:30:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.67 Mbit/s  
95th percentile per-packet one-way delay: 91.266 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 91.67 Mbit/s  
95th percentile per-packet one-way delay: 91.266 ms  
Loss rate: 0.32%

Run 3: Report of Muses\_DecisionTree — Data Link



Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-09-18 01:33:55

End at: 2019-09-18 01:34:25

Local clock offset: 2.331 ms

Remote clock offset: -8.95 ms

# Below is generated by plot.py at 2019-09-18 02:30:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.15 Mbit/s

95th percentile per-packet one-way delay: 91.028 ms

Loss rate: 0.35%

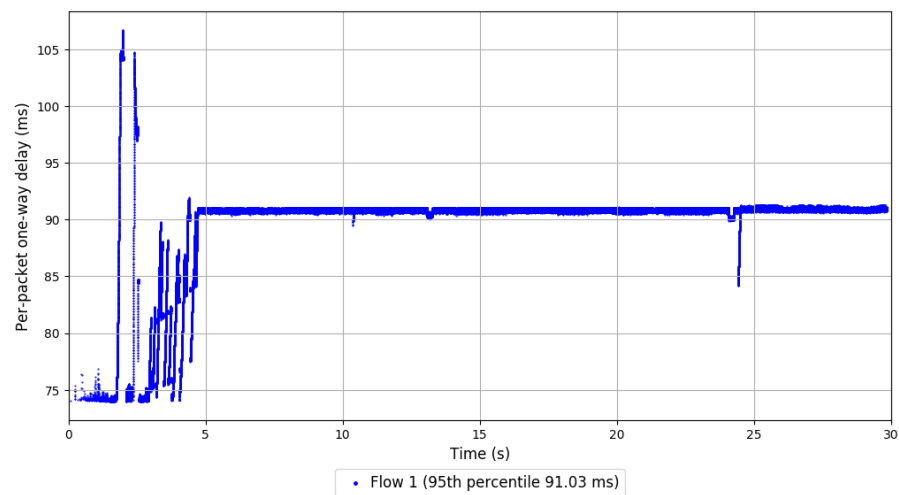
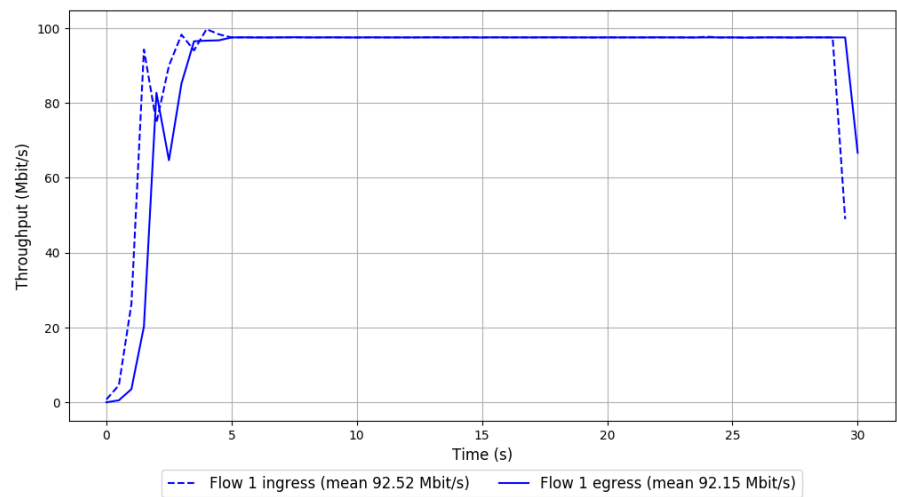
-- Flow 1:

Average throughput: 92.15 Mbit/s

95th percentile per-packet one-way delay: 91.028 ms

Loss rate: 0.35%

Run 4: Report of Muses\_DecisionTree — Data Link

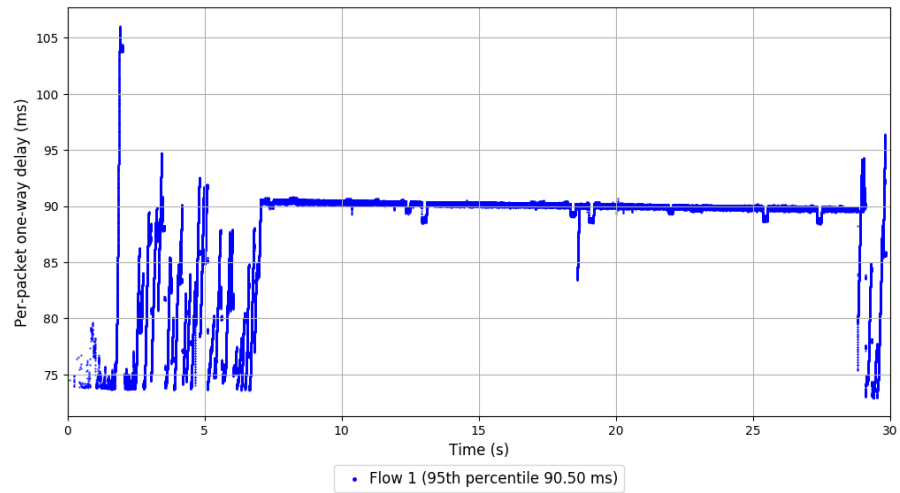
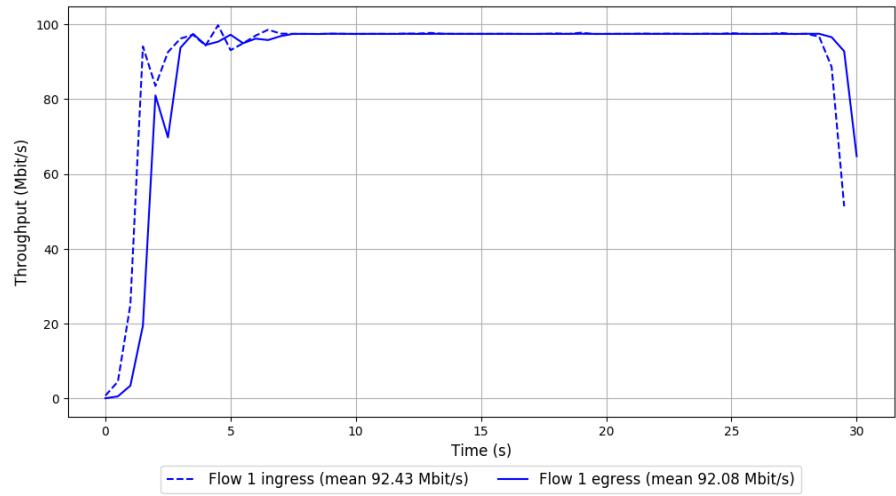


Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-09-18 02:02:27  
End at: 2019-09-18 02:02:57  
Local clock offset: -1.501 ms  
Remote clock offset: -9.706 ms

# Below is generated by plot.py at 2019-09-18 02:30:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.08 Mbit/s  
95th percentile per-packet one-way delay: 90.505 ms  
Loss rate: 0.35%  
-- Flow 1:  
Average throughput: 92.08 Mbit/s  
95th percentile per-packet one-way delay: 90.505 ms  
Loss rate: 0.35%

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



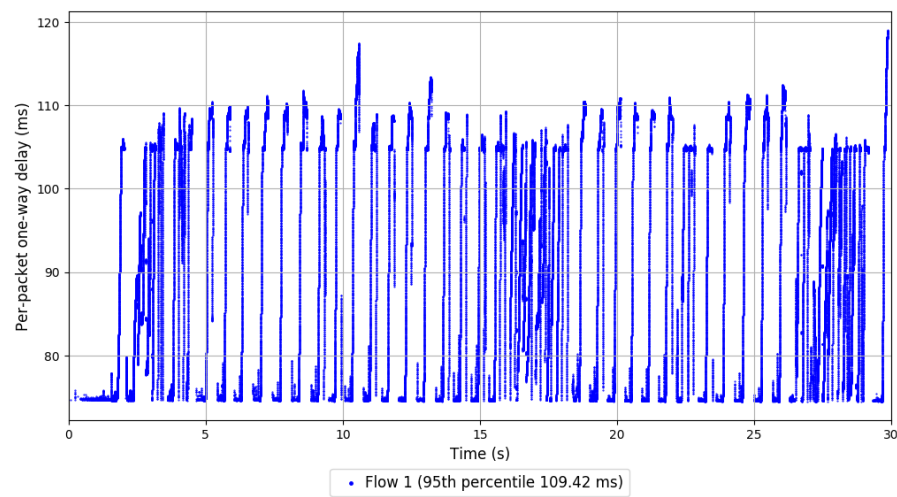
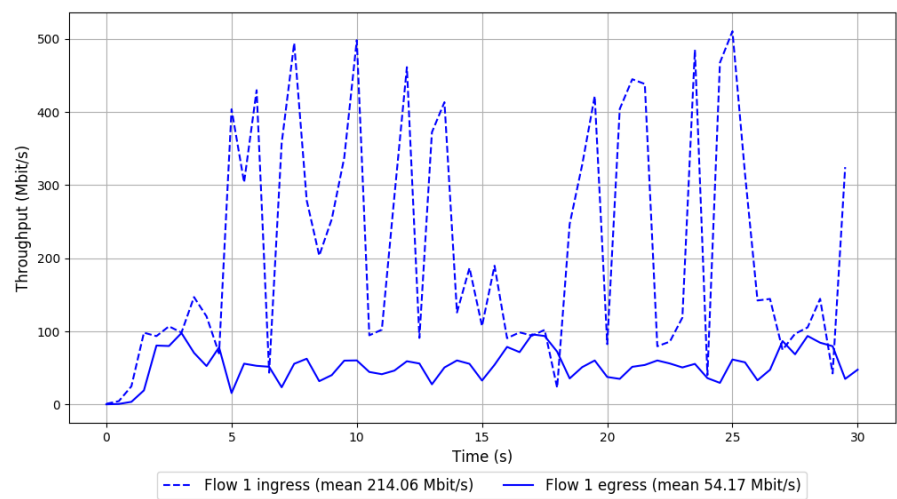


Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-18 00:11:47  
End at: 2019-09-18 00:12:17  
Local clock offset: 4.272 ms  
Remote clock offset: -6.571 ms

# Below is generated by plot.py at 2019-09-18 02:30:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 54.17 Mbit/s  
95th percentile per-packet one-way delay: 109.419 ms  
Loss rate: 74.66%  
-- Flow 1:  
Average throughput: 54.17 Mbit/s  
95th percentile per-packet one-way delay: 109.419 ms  
Loss rate: 74.66%

Run 1: Report of Muses\_DecisionTreeH0 — Data Link

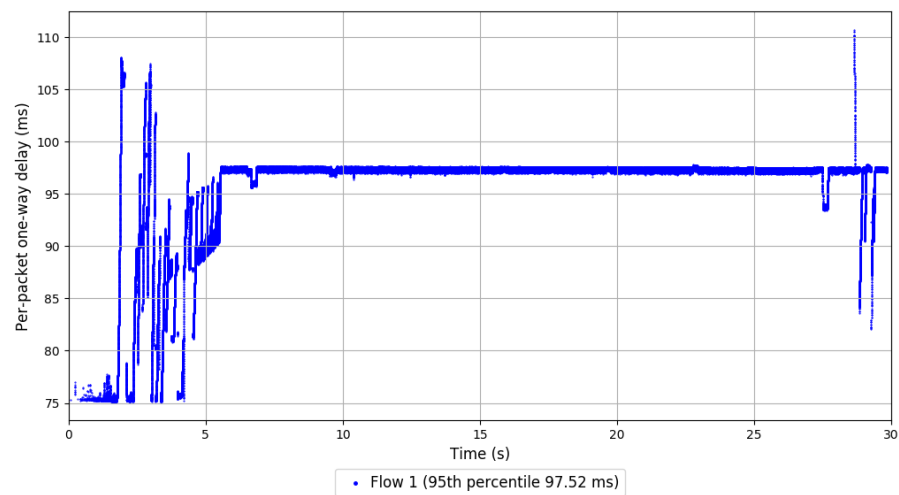
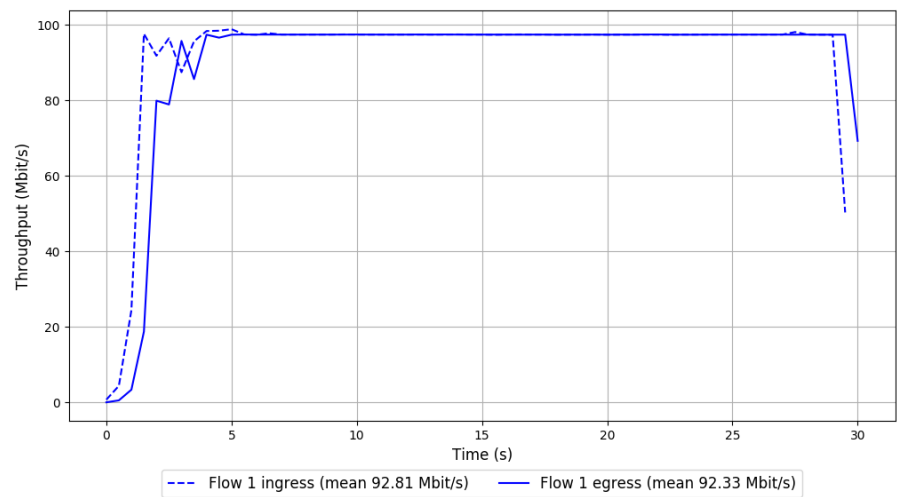


Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-18 00:40:00  
End at: 2019-09-18 00:40:30  
Local clock offset: -3.839 ms  
Remote clock offset: -7.012 ms

# Below is generated by plot.py at 2019-09-18 02:30:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.33 Mbit/s  
95th percentile per-packet one-way delay: 97.519 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 92.33 Mbit/s  
95th percentile per-packet one-way delay: 97.519 ms  
Loss rate: 0.44%

Run 2: Report of Muses\_DecisionTreeH0 — Data Link

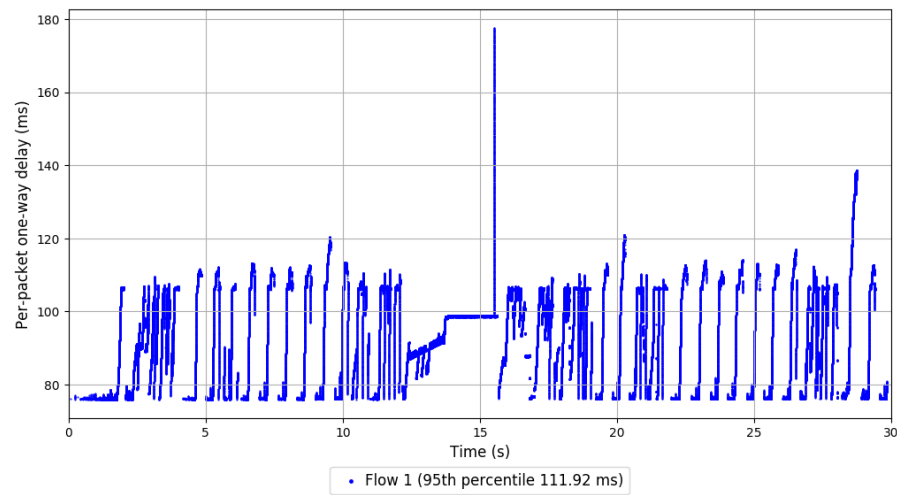
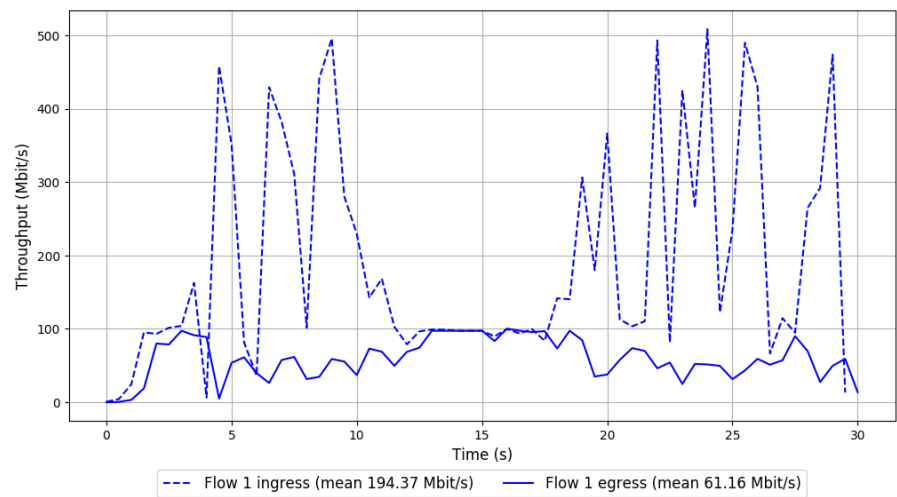


Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-18 01:08:13  
End at: 2019-09-18 01:08:43  
Local clock offset: -2.378 ms  
Remote clock offset: -9.024 ms

# Below is generated by plot.py at 2019-09-18 02:31:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 61.16 Mbit/s  
95th percentile per-packet one-way delay: 111.921 ms  
Loss rate: 68.53%  
-- Flow 1:  
Average throughput: 61.16 Mbit/s  
95th percentile per-packet one-way delay: 111.921 ms  
Loss rate: 68.53%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link

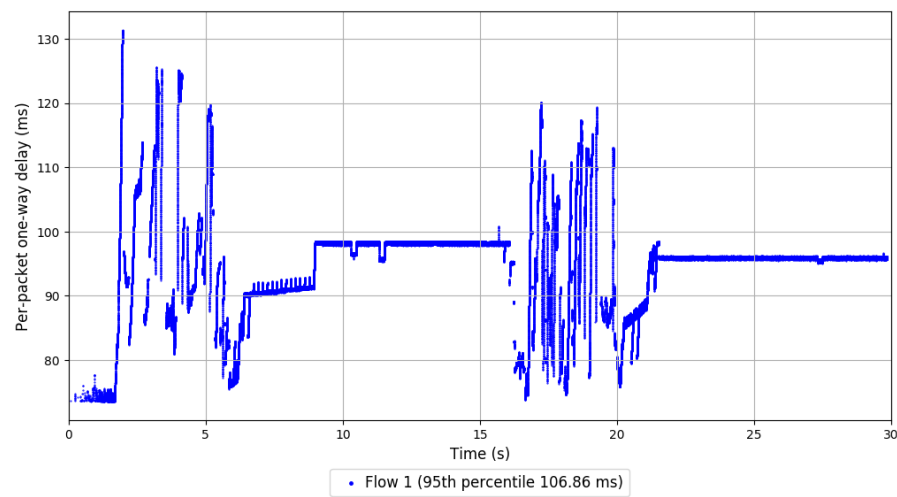
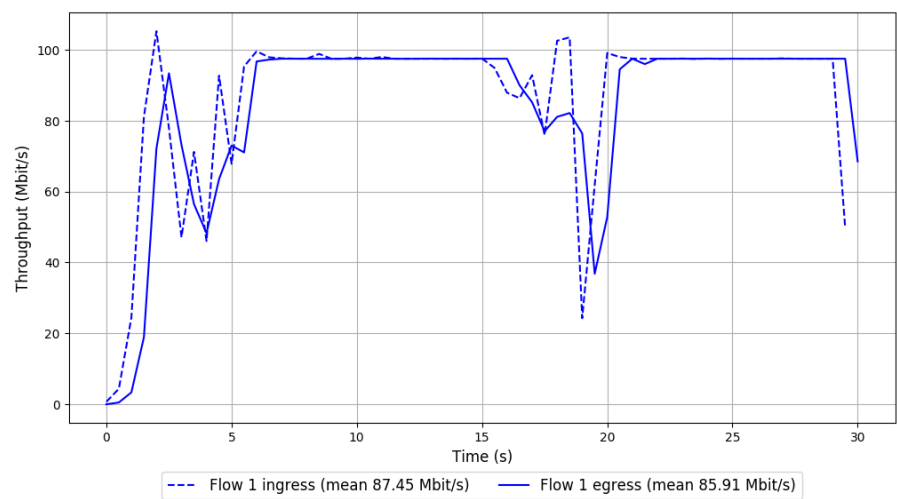


Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-18 01:36:19  
End at: 2019-09-18 01:36:49  
Local clock offset: 1.596 ms  
Remote clock offset: -10.24 ms

# Below is generated by plot.py at 2019-09-18 02:31:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.91 Mbit/s  
95th percentile per-packet one-way delay: 106.860 ms  
Loss rate: 1.69%  
-- Flow 1:  
Average throughput: 85.91 Mbit/s  
95th percentile per-packet one-way delay: 106.860 ms  
Loss rate: 1.69%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link



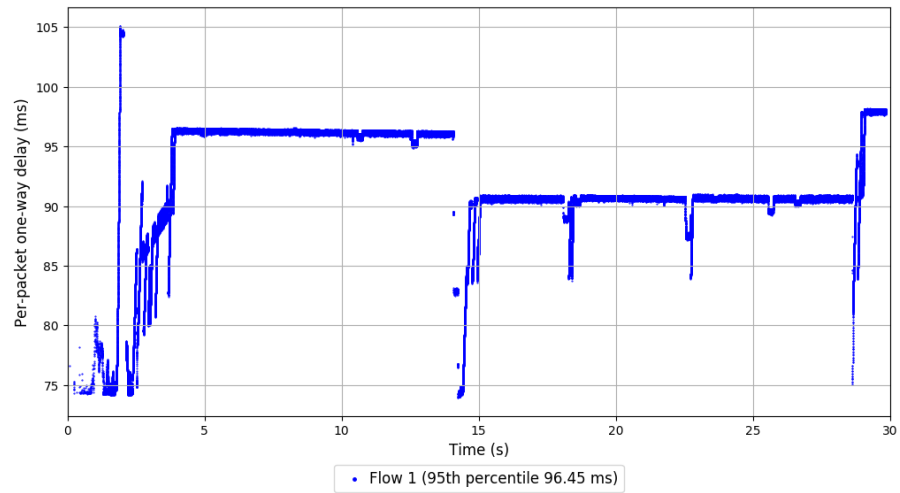
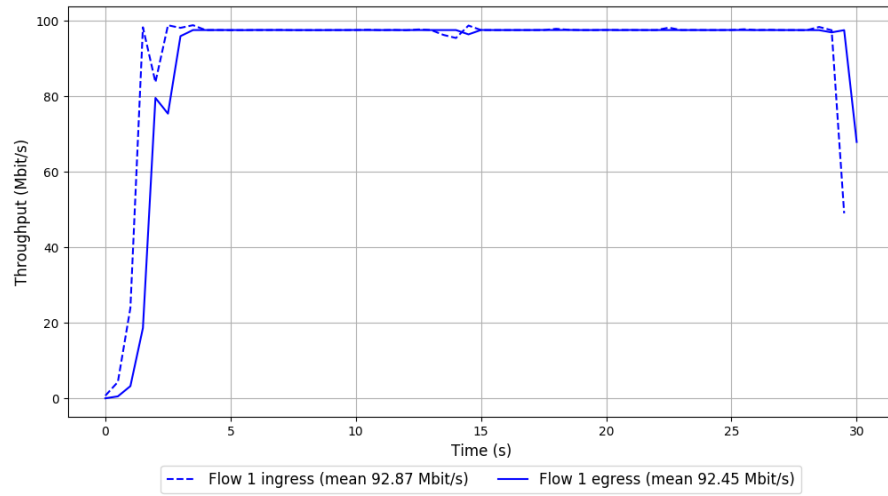


Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-18 02:04:51  
End at: 2019-09-18 02:05:21  
Local clock offset: -6.501 ms  
Remote clock offset: -11.659 ms

# Below is generated by plot.py at 2019-09-18 02:31:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.45 Mbit/s  
95th percentile per-packet one-way delay: 96.454 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 92.45 Mbit/s  
95th percentile per-packet one-way delay: 96.454 ms  
Loss rate: 0.38%

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

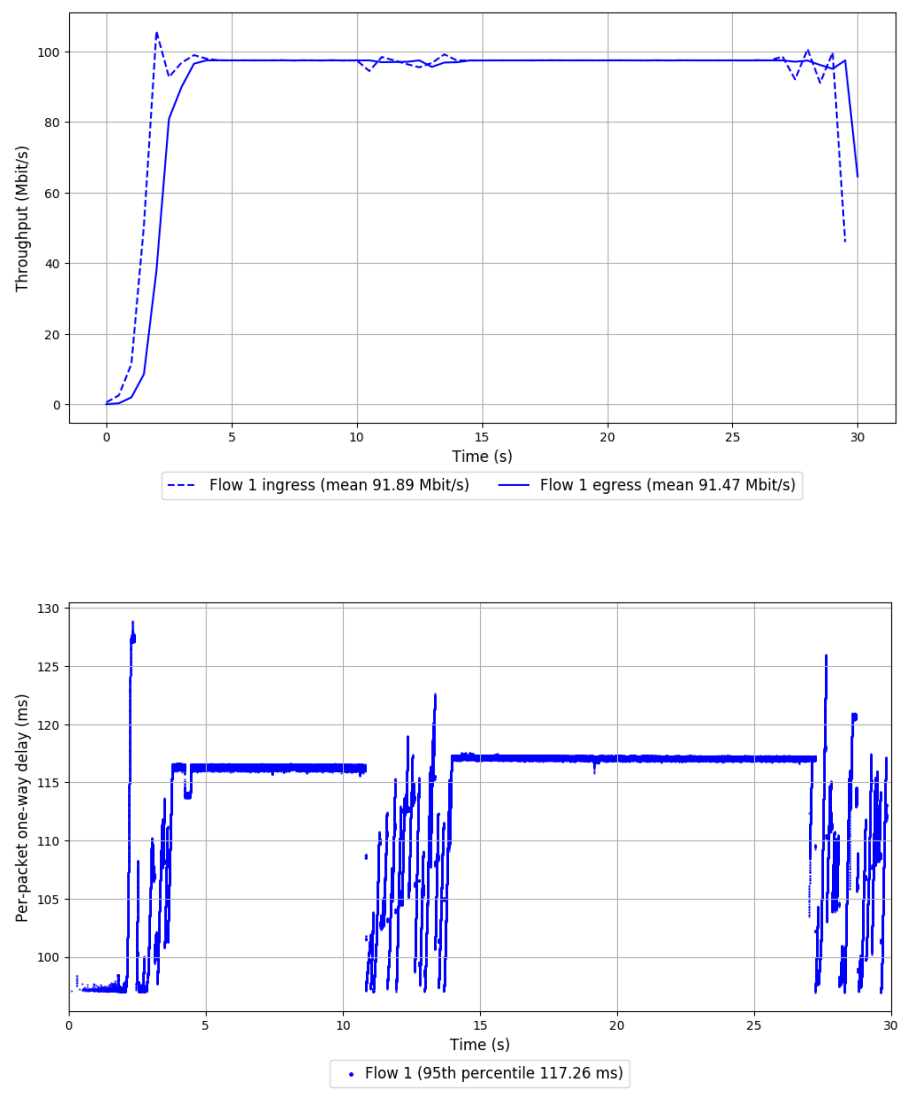


Run 1: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-18 00:10:35  
End at: 2019-09-18 00:11:05  
Local clock offset: 5.608 ms  
Remote clock offset: -10.674 ms

# Below is generated by plot.py at 2019-09-18 02:31:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.47 Mbit/s  
95th percentile per-packet one-way delay: 117.259 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 91.47 Mbit/s  
95th percentile per-packet one-way delay: 117.259 ms  
Loss rate: 0.49%

Run 1: Report of Muses\_DecisionTreeR0 — Data Link

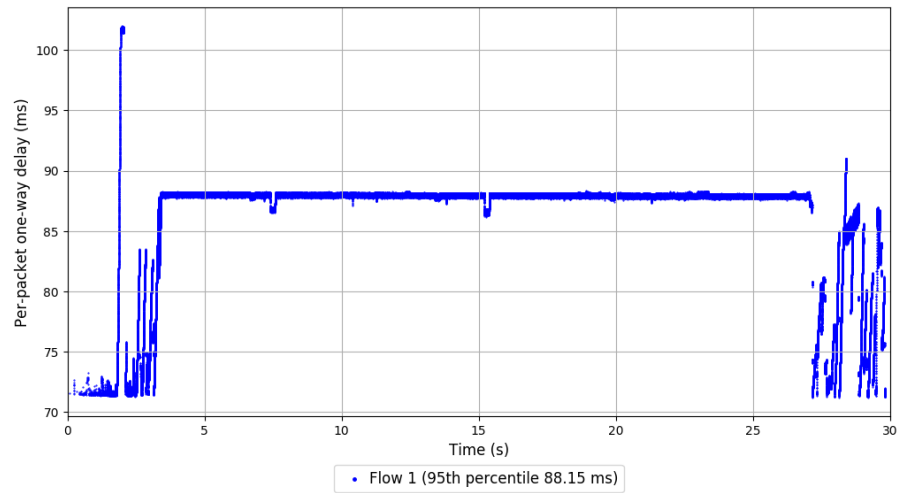
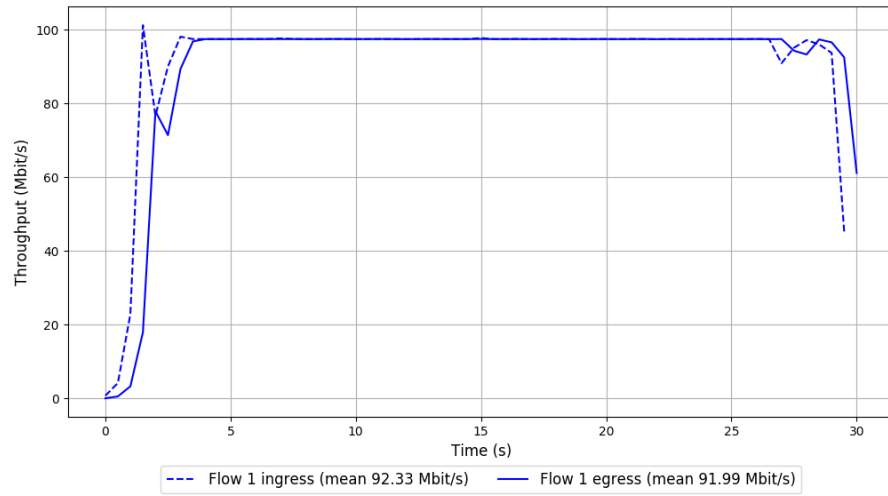


Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-18 00:38:48  
End at: 2019-09-18 00:39:18  
Local clock offset: -2.57 ms  
Remote clock offset: -11.679 ms

# Below is generated by plot.py at 2019-09-18 02:31:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.99 Mbit/s  
95th percentile per-packet one-way delay: 88.151 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 91.99 Mbit/s  
95th percentile per-packet one-way delay: 88.151 ms  
Loss rate: 0.37%

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

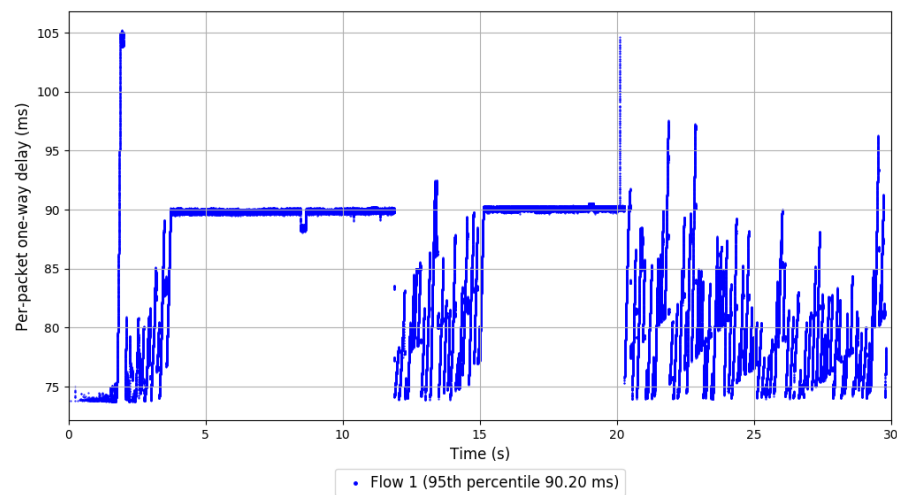
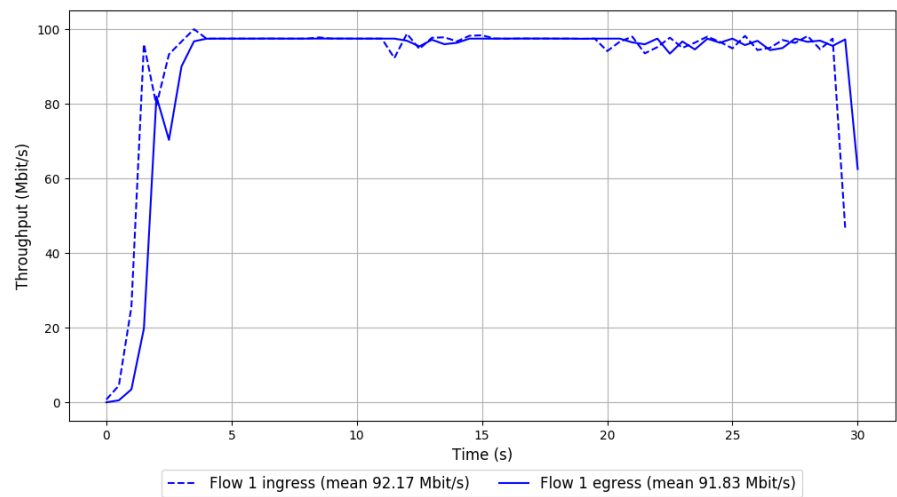


Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-18 01:07:01  
End at: 2019-09-18 01:07:31  
Local clock offset: -2.306 ms  
Remote clock offset: -9.013 ms

# Below is generated by plot.py at 2019-09-18 02:31:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.83 Mbit/s  
95th percentile per-packet one-way delay: 90.197 ms  
Loss rate: 0.35%  
-- Flow 1:  
Average throughput: 91.83 Mbit/s  
95th percentile per-packet one-way delay: 90.197 ms  
Loss rate: 0.35%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link



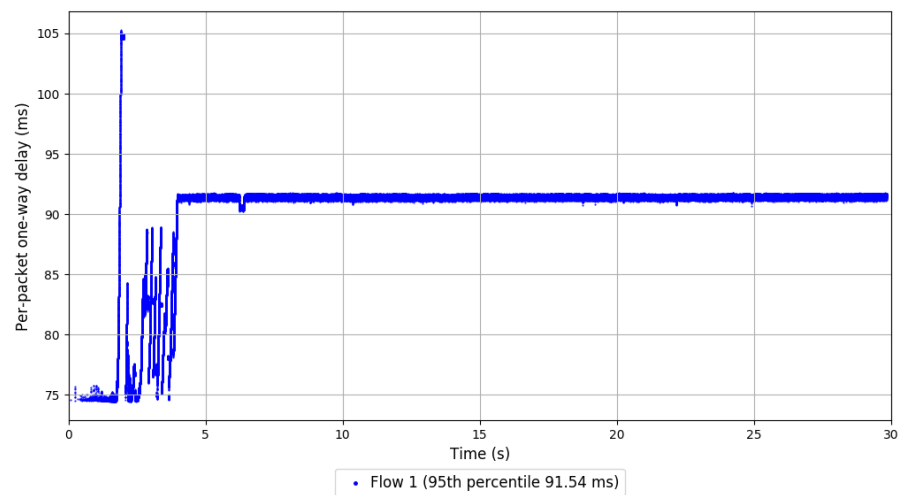
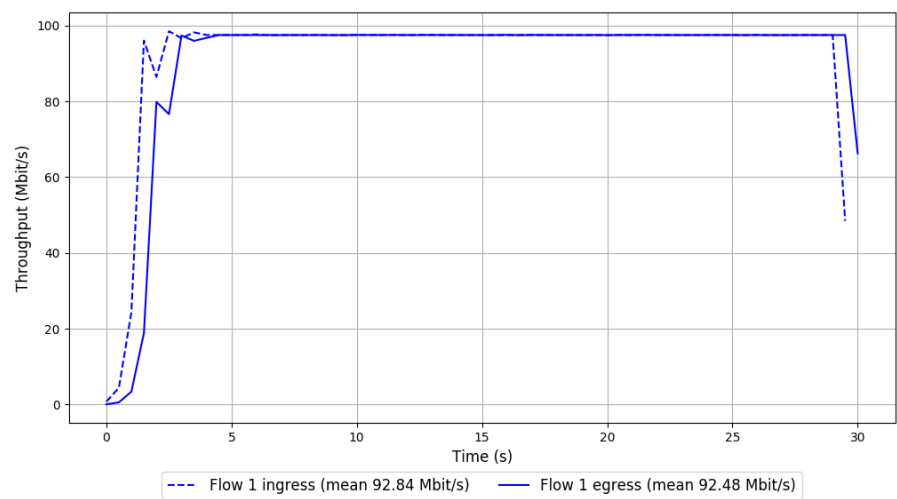


Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-18 01:35:07  
End at: 2019-09-18 01:35:37  
Local clock offset: 1.622 ms  
Remote clock offset: -9.442 ms

# Below is generated by plot.py at 2019-09-18 02:31:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.48 Mbit/s  
95th percentile per-packet one-way delay: 91.536 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 92.48 Mbit/s  
95th percentile per-packet one-way delay: 91.536 ms  
Loss rate: 0.33%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link

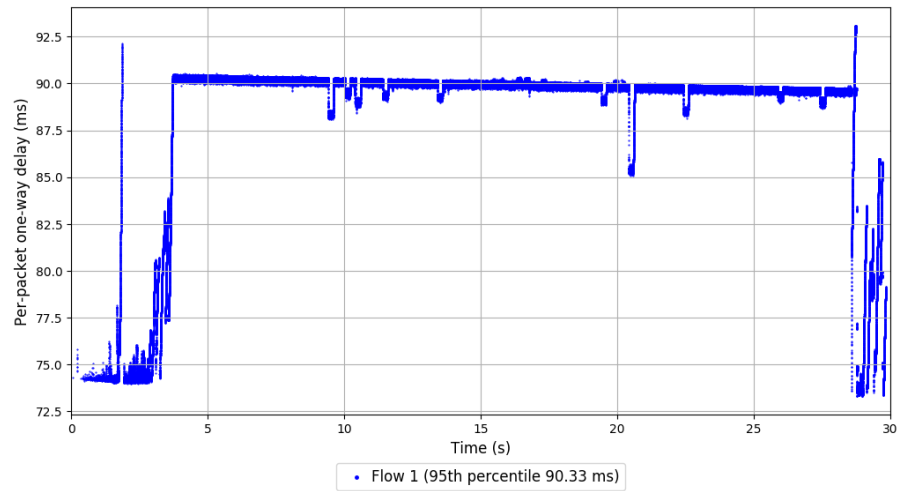
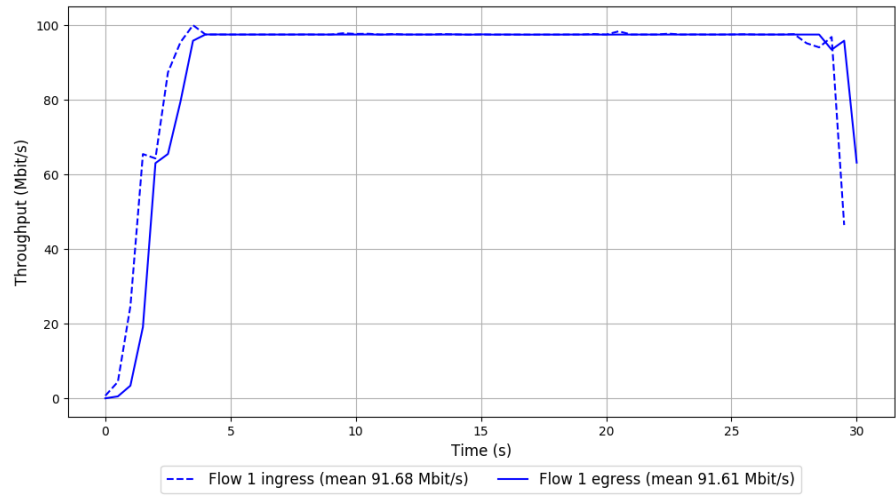


Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-18 02:03:39  
End at: 2019-09-18 02:04:09  
Local clock offset: -3.898 ms  
Remote clock offset: -10.743 ms

# Below is generated by plot.py at 2019-09-18 02:31:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.61 Mbit/s  
95th percentile per-packet one-way delay: 90.326 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 91.61 Mbit/s  
95th percentile per-packet one-way delay: 90.326 ms  
Loss rate: 0.05%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-09-18 00:23:33

End at: 2019-09-18 00:24:03

Local clock offset: 2.511 ms

Remote clock offset: -7.025 ms

# Below is generated by plot.py at 2019-09-18 02:32:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.67 Mbit/s

95th percentile per-packet one-way delay: 116.727 ms

Loss rate: 1.80%

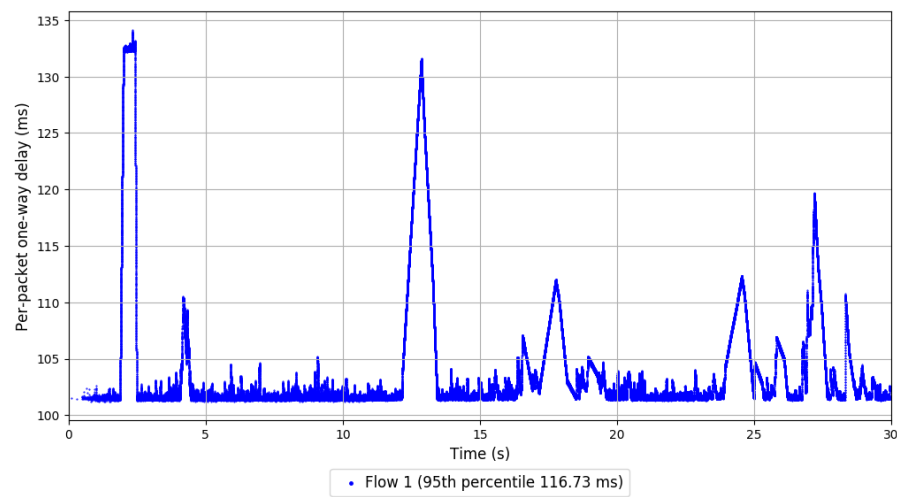
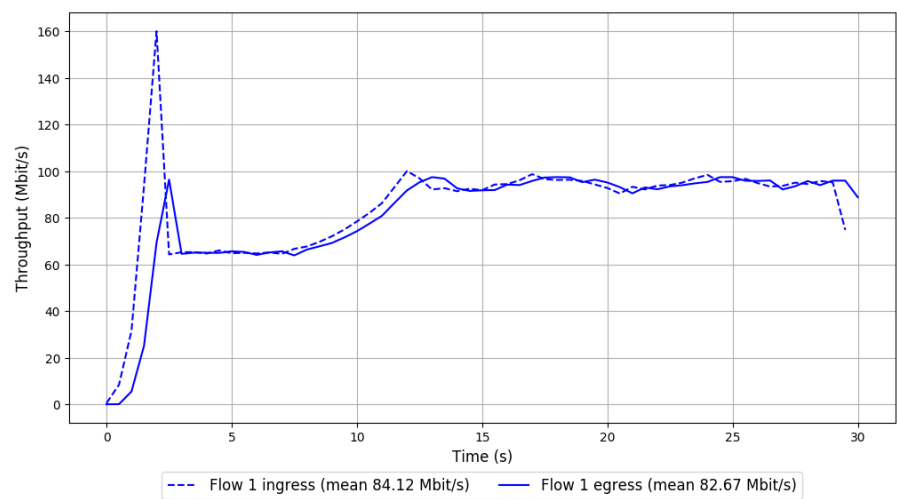
-- Flow 1:

Average throughput: 82.67 Mbit/s

95th percentile per-packet one-way delay: 116.727 ms

Loss rate: 1.80%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-09-18 00:51:46

End at: 2019-09-18 00:52:16

Local clock offset: -5.728 ms

Remote clock offset: -7.992 ms

# Below is generated by plot.py at 2019-09-18 02:32:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.30 Mbit/s

95th percentile per-packet one-way delay: 79.400 ms

Loss rate: 1.46%

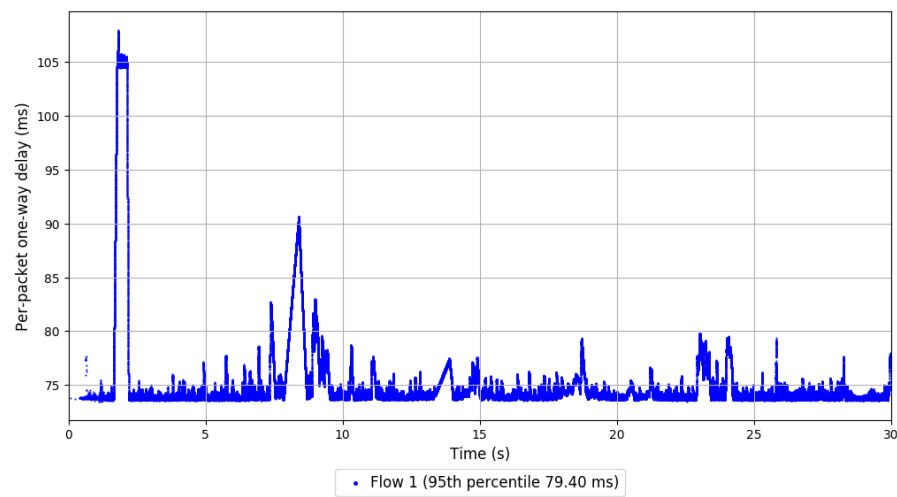
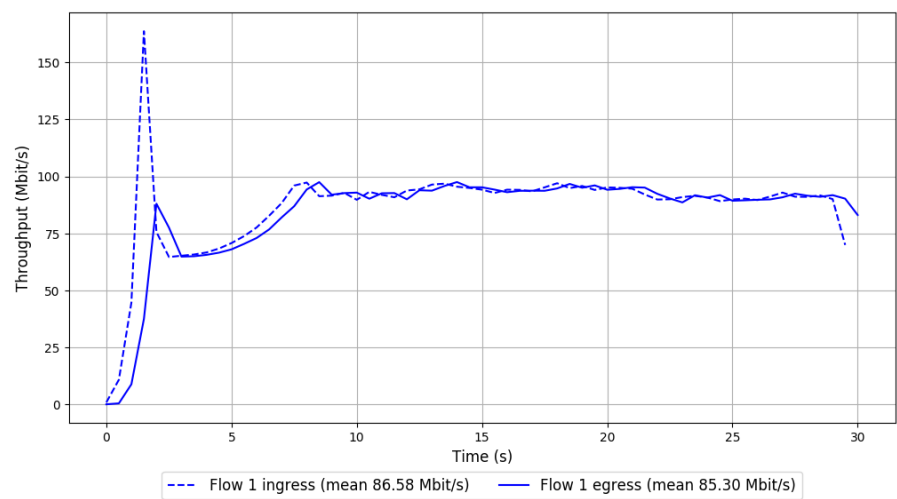
-- Flow 1:

Average throughput: 85.30 Mbit/s

95th percentile per-packet one-way delay: 79.400 ms

Loss rate: 1.46%

Run 2: Report of PCC-Allegro — Data Link





Run 3: Statistics of PCC-Allegro

Start at: 2019-09-18 01:19:56

End at: 2019-09-18 01:20:26

Local clock offset: 1.51 ms

Remote clock offset: -10.369 ms

# Below is generated by plot.py at 2019-09-18 02:32:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.63 Mbit/s

95th percentile per-packet one-way delay: 79.579 ms

Loss rate: 1.62%

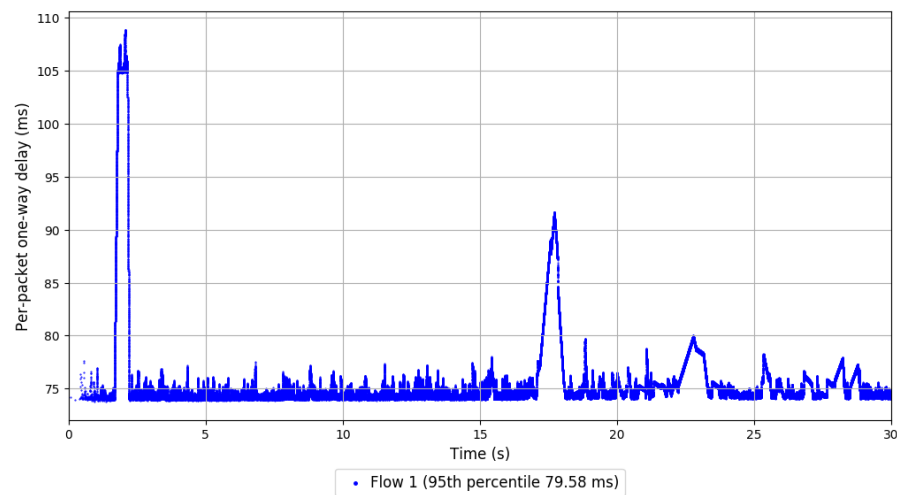
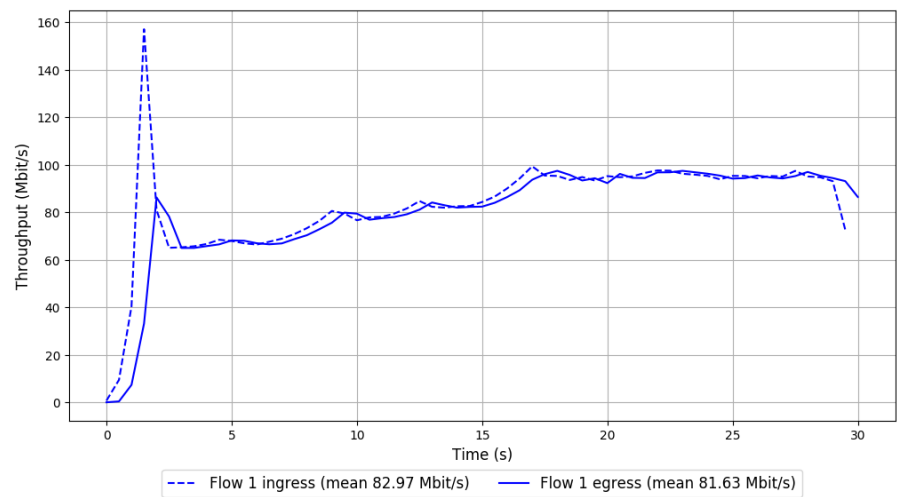
-- Flow 1:

Average throughput: 81.63 Mbit/s

95th percentile per-packet one-way delay: 79.579 ms

Loss rate: 1.62%

Run 3: Report of PCC-Allegro — Data Link

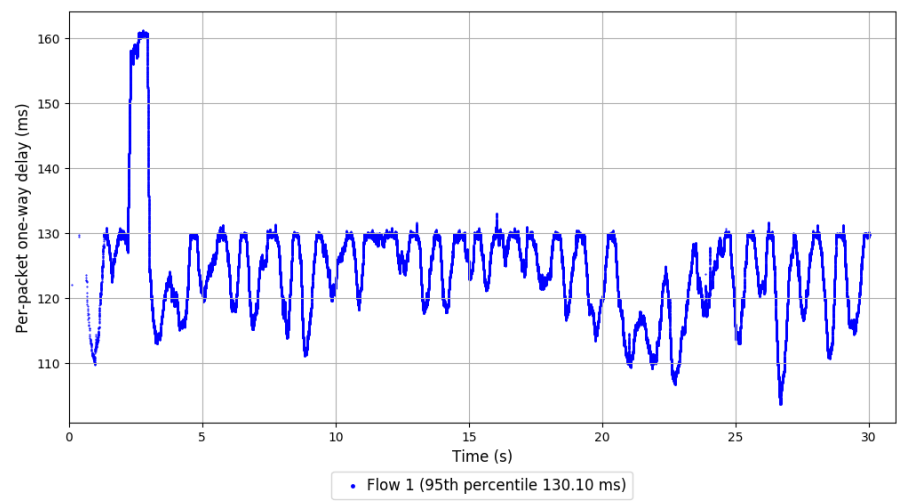
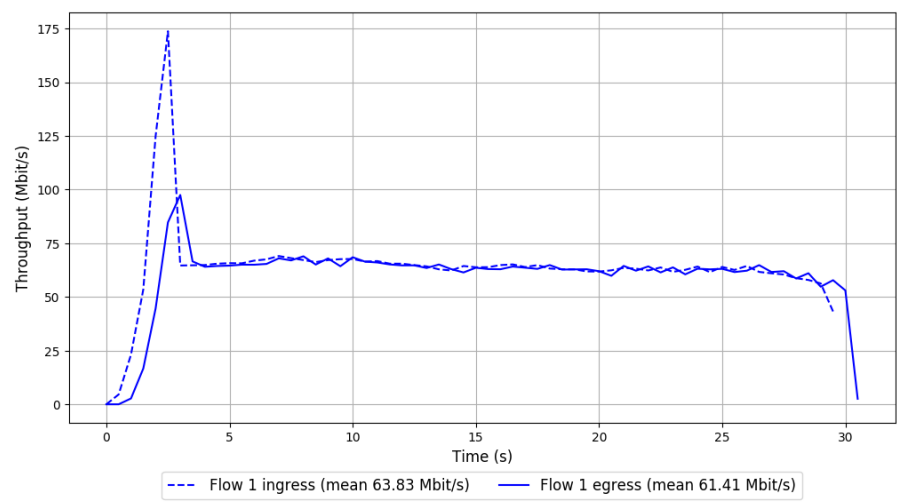


Run 4: Statistics of PCC-Allegro

Start at: 2019-09-18 01:48:14  
End at: 2019-09-18 01:48:44  
Local clock offset: 2.431 ms  
Remote clock offset: -52.642 ms

# Below is generated by plot.py at 2019-09-18 02:32:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 61.41 Mbit/s  
95th percentile per-packet one-way delay: 130.099 ms  
Loss rate: 3.76%  
-- Flow 1:  
Average throughput: 61.41 Mbit/s  
95th percentile per-packet one-way delay: 130.099 ms  
Loss rate: 3.76%

Run 4: Report of PCC-Allegro — Data Link

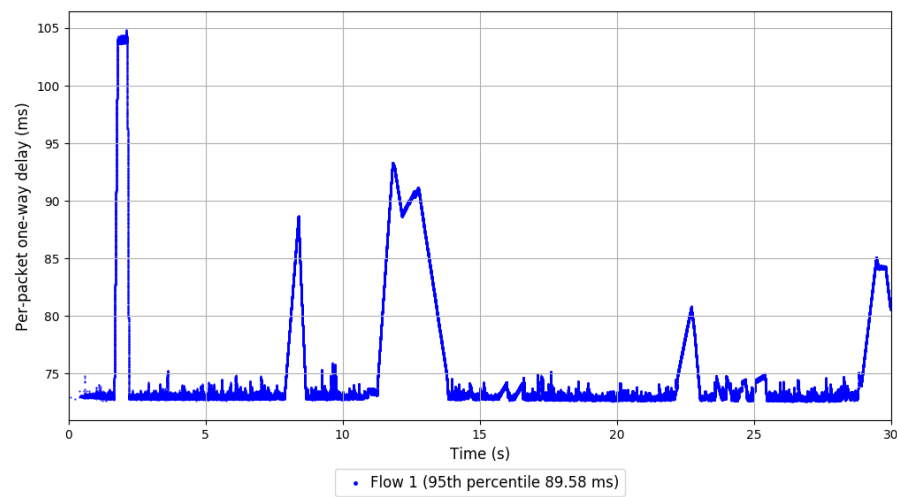
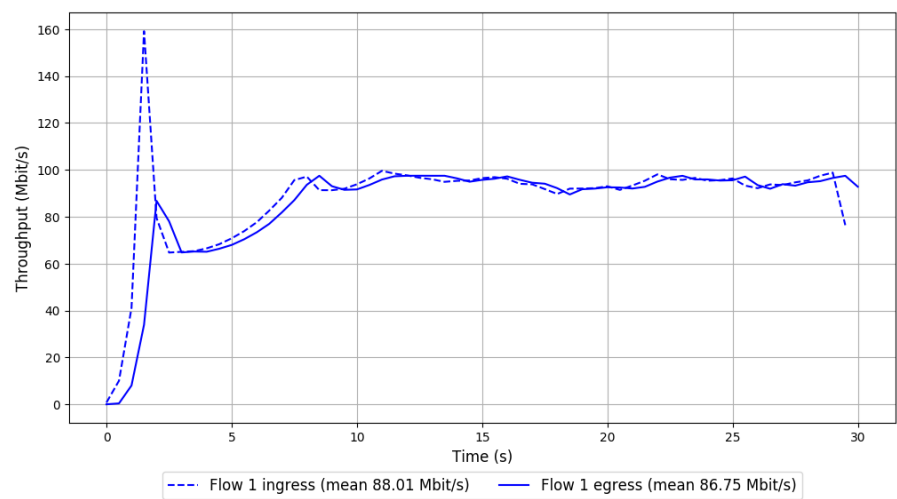


Run 5: Statistics of PCC-Allegro

Start at: 2019-09-18 02:16:40  
End at: 2019-09-18 02:17:10  
Local clock offset: -18.128 ms  
Remote clock offset: -11.17 ms

# Below is generated by plot.py at 2019-09-18 02:32:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.75 Mbit/s  
95th percentile per-packet one-way delay: 89.575 ms  
Loss rate: 1.40%  
-- Flow 1:  
Average throughput: 86.75 Mbit/s  
95th percentile per-packet one-way delay: 89.575 ms  
Loss rate: 1.40%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

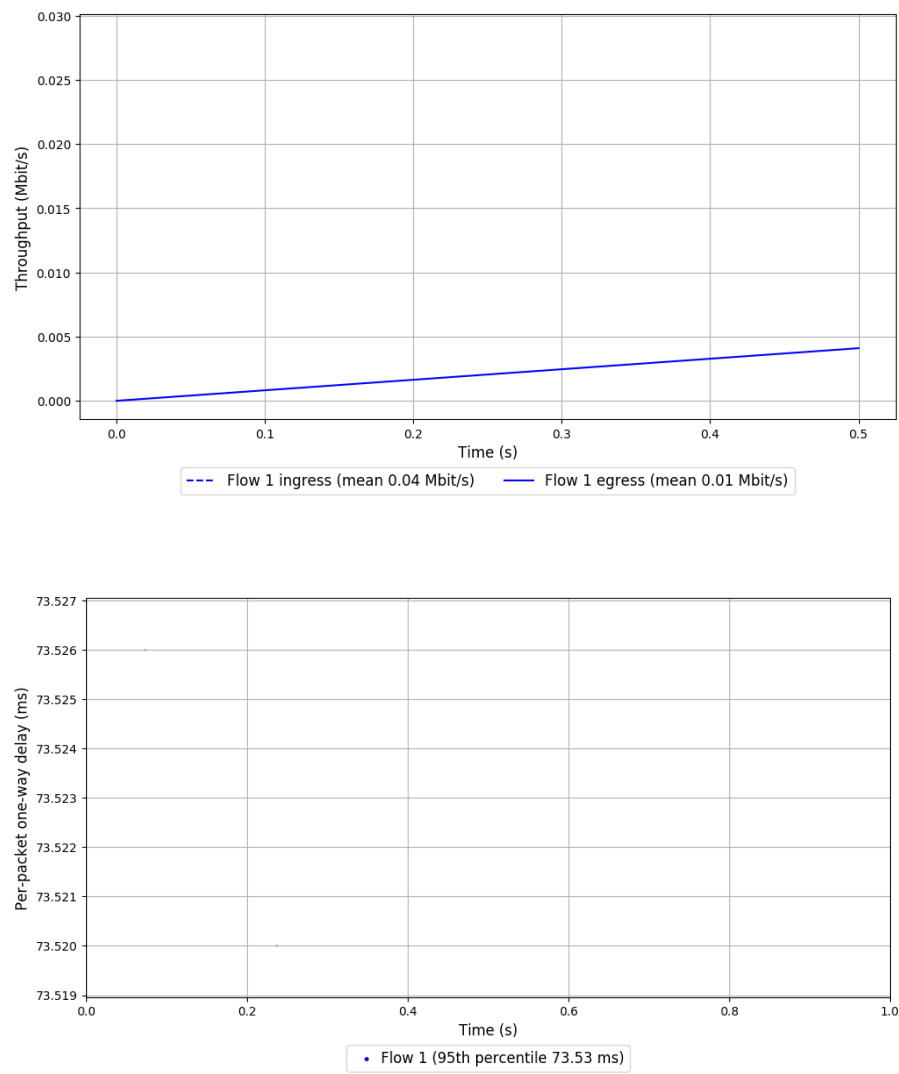
Start at: 2019-09-18 00:01:07

End at: 2019-09-18 00:01:37

Local clock offset: 12.08 ms

Remote clock offset: -6.581 ms

Run 1: Report of PCC-Expr — Data Link





Run 2: Statistics of PCC-Expr

Start at: 2019-09-18 00:29:24

End at: 2019-09-18 00:29:54

Local clock offset: 1.939 ms

Remote clock offset: -8.625 ms

# Below is generated by plot.py at 2019-09-18 02:32:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.20 Mbit/s

95th percentile per-packet one-way delay: 75.688 ms

Loss rate: 43.38%

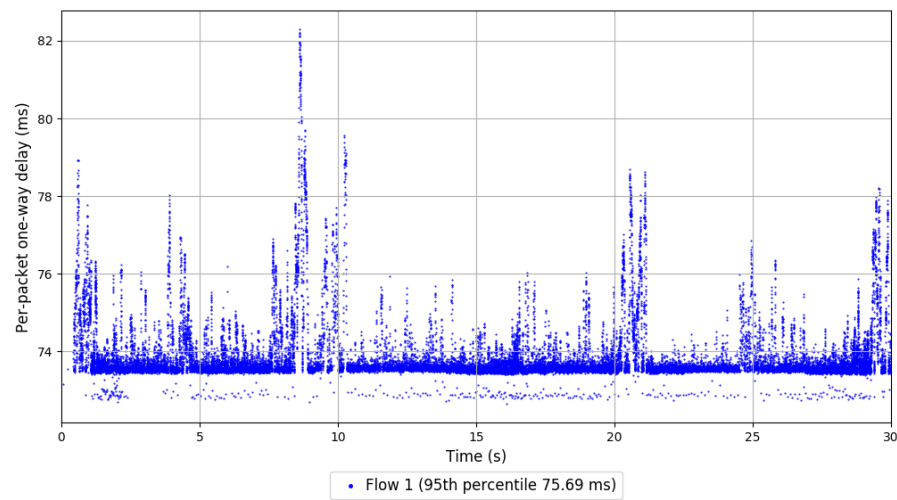
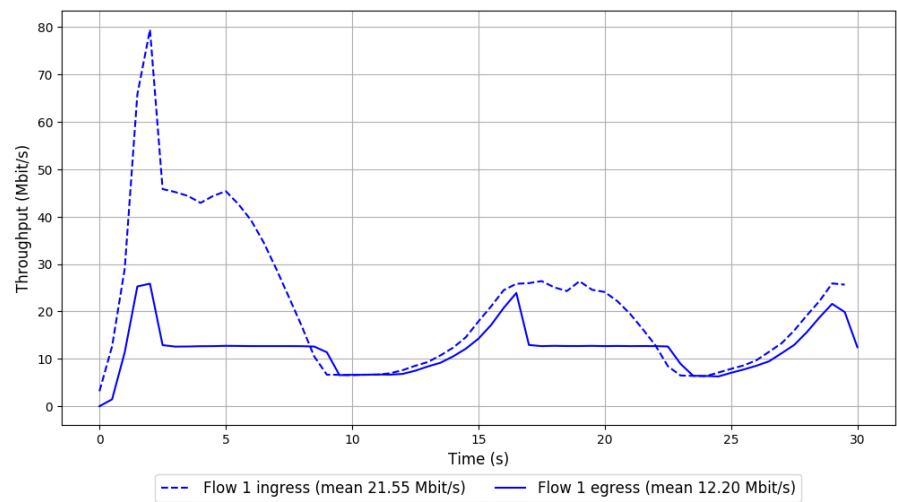
-- Flow 1:

Average throughput: 12.20 Mbit/s

95th percentile per-packet one-way delay: 75.688 ms

Loss rate: 43.38%

Run 2: Report of PCC-Expr — Data Link

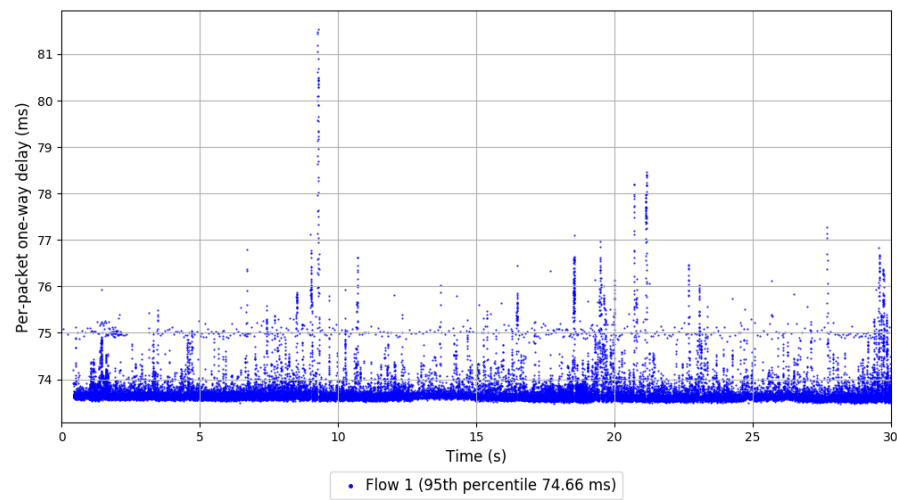
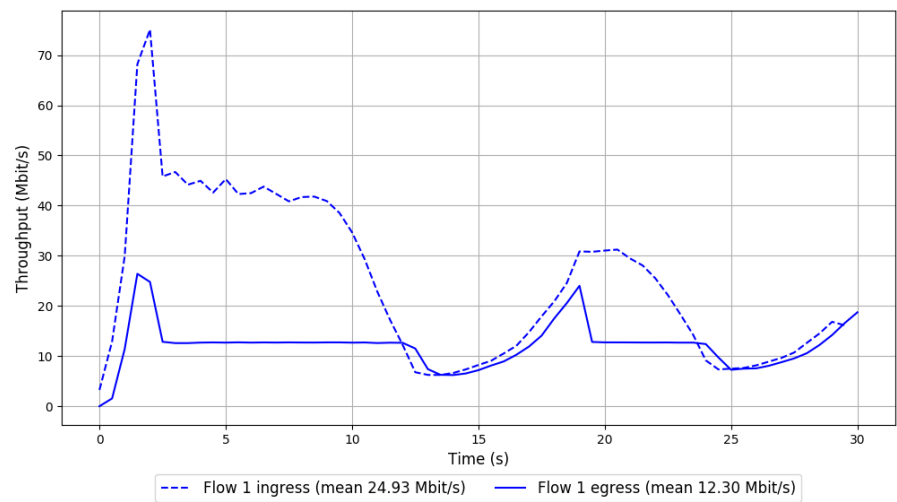


Run 3: Statistics of PCC-Expr

Start at: 2019-09-18 00:57:37  
End at: 2019-09-18 00:58:07  
Local clock offset: -6.69 ms  
Remote clock offset: -9.224 ms

# Below is generated by plot.py at 2019-09-18 02:32:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.30 Mbit/s  
95th percentile per-packet one-way delay: 74.663 ms  
Loss rate: 50.66%  
-- Flow 1:  
Average throughput: 12.30 Mbit/s  
95th percentile per-packet one-way delay: 74.663 ms  
Loss rate: 50.66%

Run 3: Report of PCC-Expr — Data Link

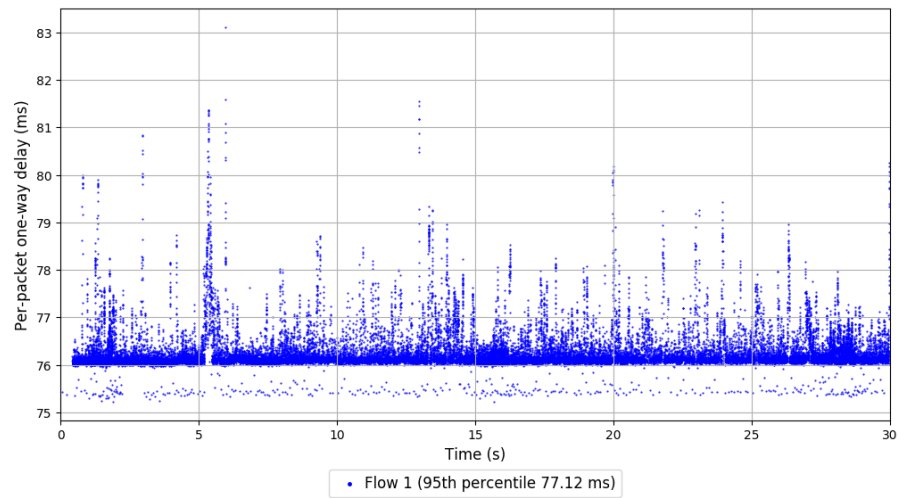
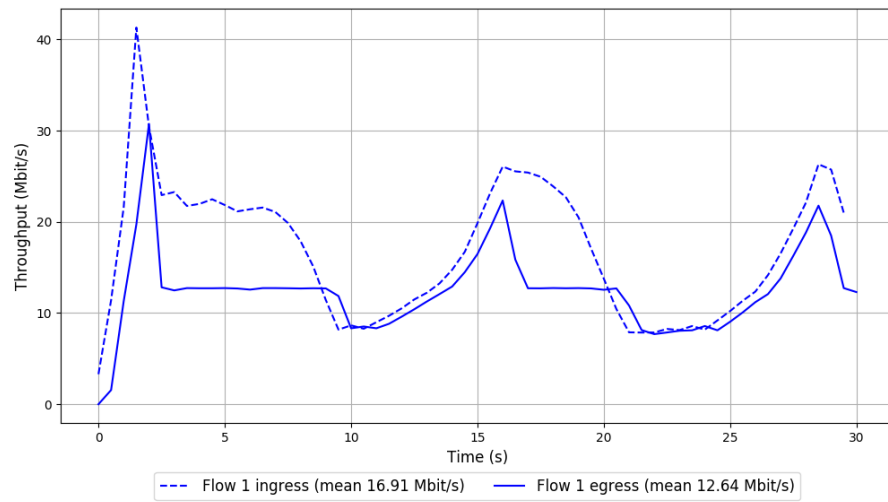


Run 4: Statistics of PCC-Expr

Start at: 2019-09-18 01:25:47  
End at: 2019-09-18 01:26:17  
Local clock offset: 2.125 ms  
Remote clock offset: -9.167 ms

# Below is generated by plot.py at 2019-09-18 02:32:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.64 Mbit/s  
95th percentile per-packet one-way delay: 77.117 ms  
Loss rate: 25.24%  
-- Flow 1:  
Average throughput: 12.64 Mbit/s  
95th percentile per-packet one-way delay: 77.117 ms  
Loss rate: 25.24%

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

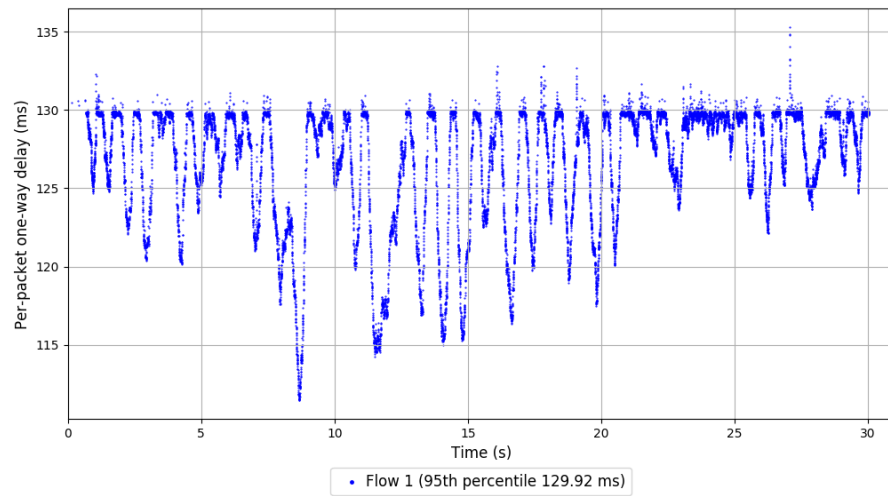
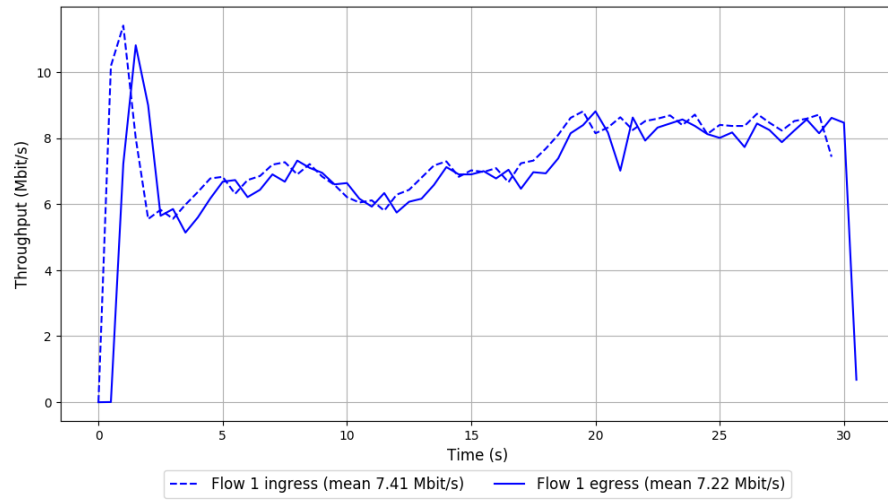


Run 5: Statistics of PCC-Expr

Start at: 2019-09-18 01:54:12  
End at: 2019-09-18 01:54:42  
Local clock offset: 1.741 ms  
Remote clock offset: -54.323 ms

# Below is generated by plot.py at 2019-09-18 02:32:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.22 Mbit/s  
95th percentile per-packet one-way delay: 129.918 ms  
Loss rate: 2.44%  
-- Flow 1:  
Average throughput: 7.22 Mbit/s  
95th percentile per-packet one-way delay: 129.918 ms  
Loss rate: 2.44%

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



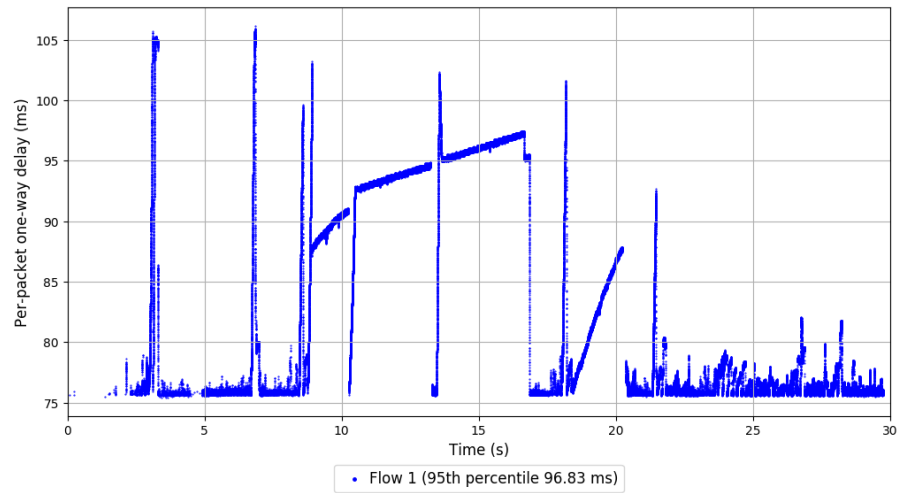
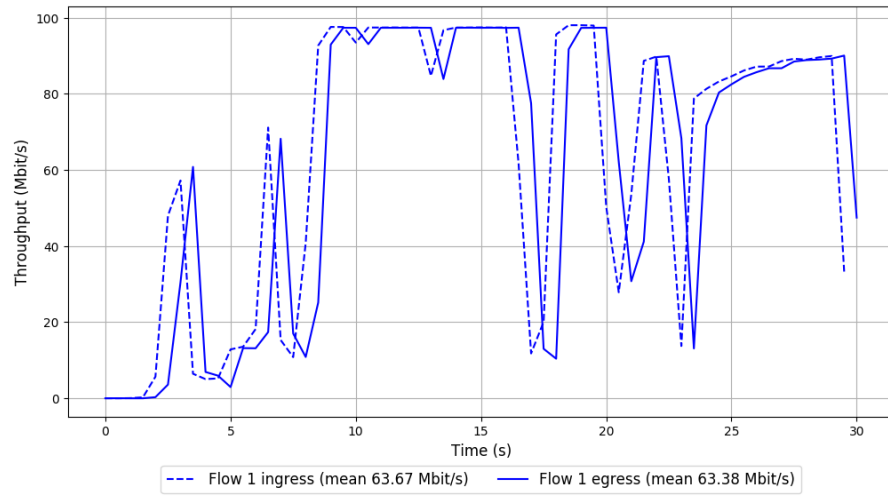


Run 1: Statistics of QUIC Cubic

Start at: 2019-09-18 00:20:01  
End at: 2019-09-18 00:20:31  
Local clock offset: 3.007 ms  
Remote clock offset: -6.935 ms

# Below is generated by plot.py at 2019-09-18 02:32:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 63.38 Mbit/s  
95th percentile per-packet one-way delay: 96.826 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 63.38 Mbit/s  
95th percentile per-packet one-way delay: 96.826 ms  
Loss rate: 0.47%

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

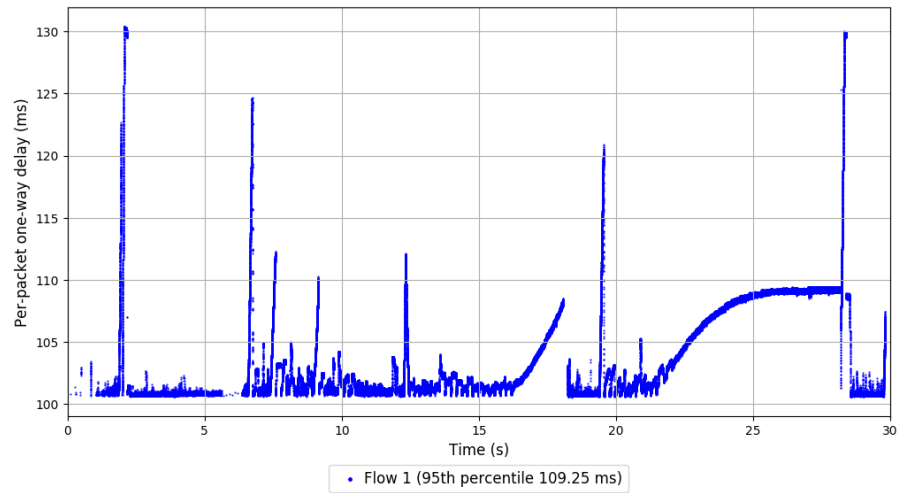
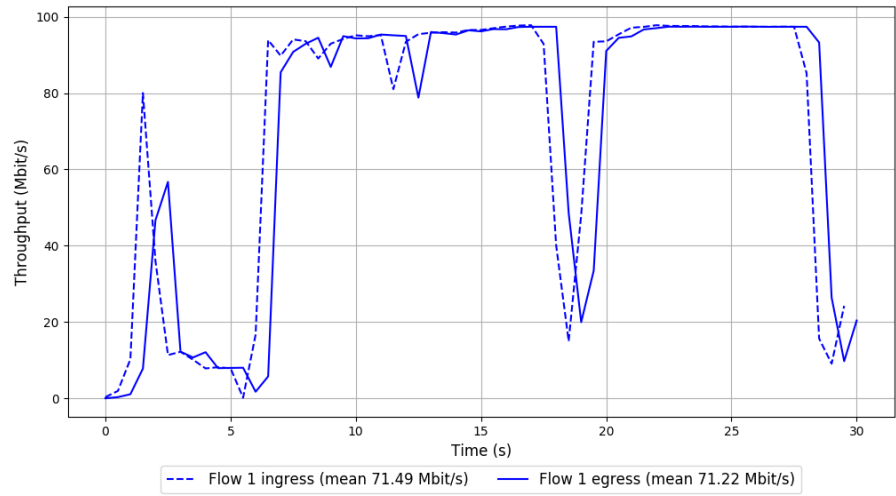


Run 2: Statistics of QUIC Cubic

Start at: 2019-09-18 00:48:13  
End at: 2019-09-18 00:48:43  
Local clock offset: -5.944 ms  
Remote clock offset: -7.645 ms

# Below is generated by plot.py at 2019-09-18 02:33:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 71.22 Mbit/s  
95th percentile per-packet one-way delay: 109.245 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 71.22 Mbit/s  
95th percentile per-packet one-way delay: 109.245 ms  
Loss rate: 0.44%

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



Run 3: Statistics of QUIC Cubic

Start at: 2019-09-18 01:16:24

End at: 2019-09-18 01:16:54

Local clock offset: 0.157 ms

Remote clock offset: -9.483 ms

# Below is generated by plot.py at 2019-09-18 02:33:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 60.04 Mbit/s

95th percentile per-packet one-way delay: 97.280 ms

Loss rate: 0.50%

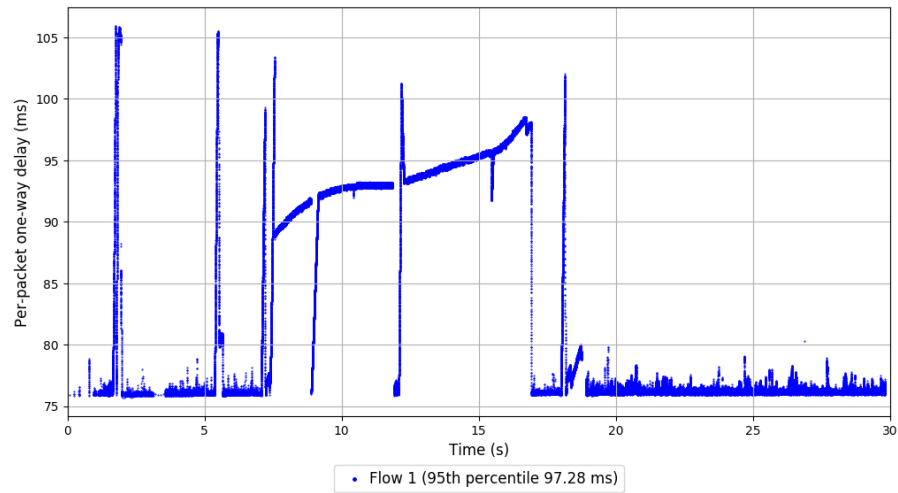
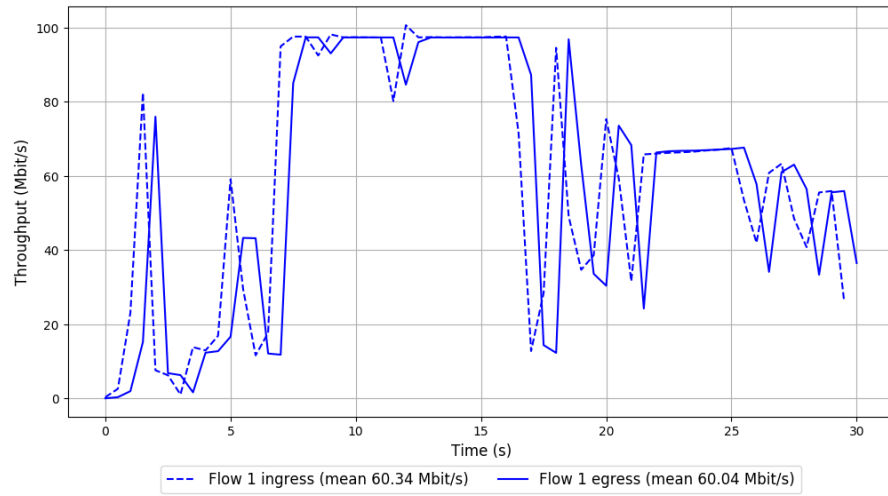
-- Flow 1:

Average throughput: 60.04 Mbit/s

95th percentile per-packet one-way delay: 97.280 ms

Loss rate: 0.50%

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

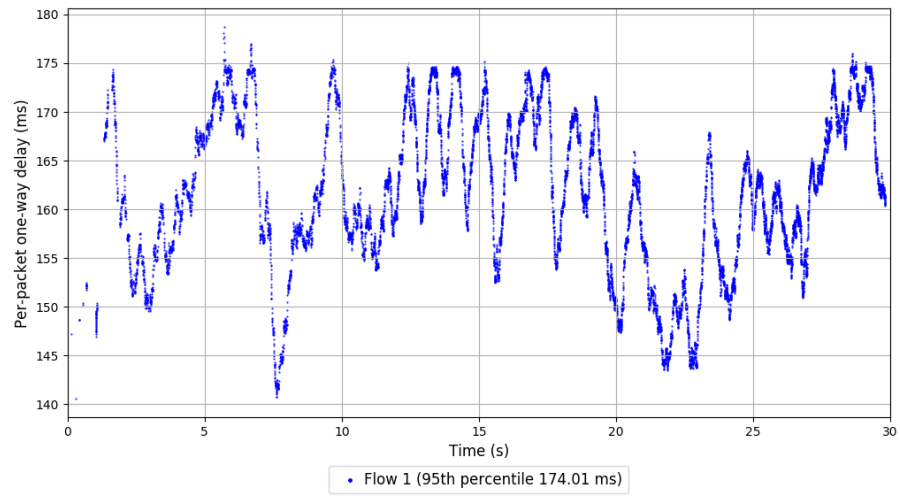
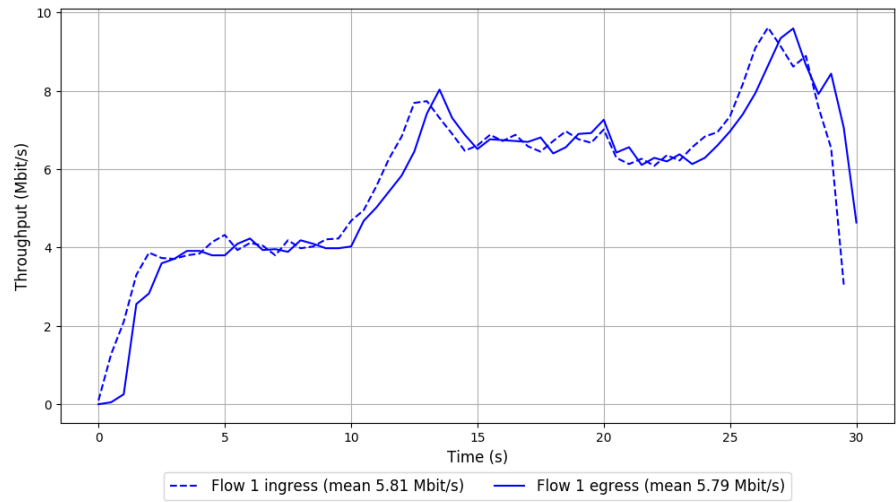


Run 4: Statistics of QUIC Cubic

Start at: 2019-09-18 01:44:39  
End at: 2019-09-18 01:45:09  
Local clock offset: 2.417 ms  
Remote clock offset: -33.366 ms

# Below is generated by plot.py at 2019-09-18 02:33:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 5.79 Mbit/s  
95th percentile per-packet one-way delay: 174.015 ms  
Loss rate: 0.40%  
-- Flow 1:  
Average throughput: 5.79 Mbit/s  
95th percentile per-packet one-way delay: 174.015 ms  
Loss rate: 0.40%

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



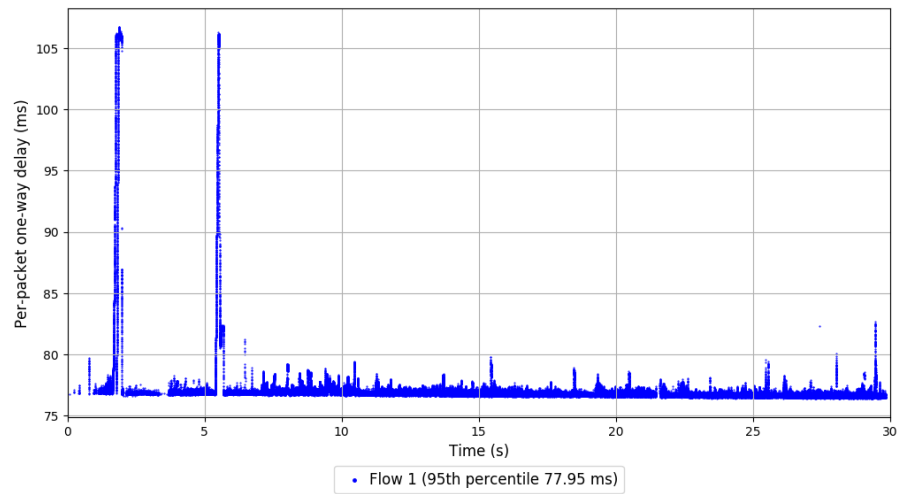
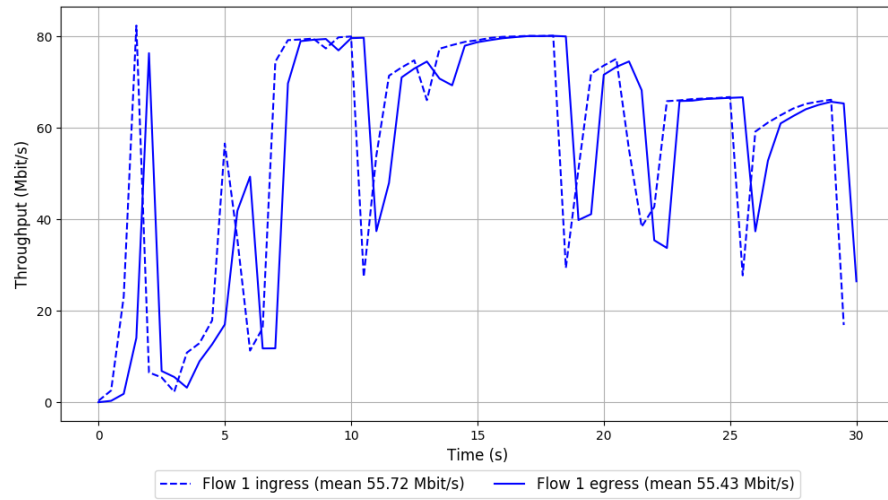


Run 5: Statistics of QUIC Cubic

Start at: 2019-09-18 02:13:08  
End at: 2019-09-18 02:13:38  
Local clock offset: -16.387 ms  
Remote clock offset: -9.361 ms

# Below is generated by plot.py at 2019-09-18 02:33:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 55.43 Mbit/s  
95th percentile per-packet one-way delay: 77.949 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 55.43 Mbit/s  
95th percentile per-packet one-way delay: 77.949 ms  
Loss rate: 0.52%

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

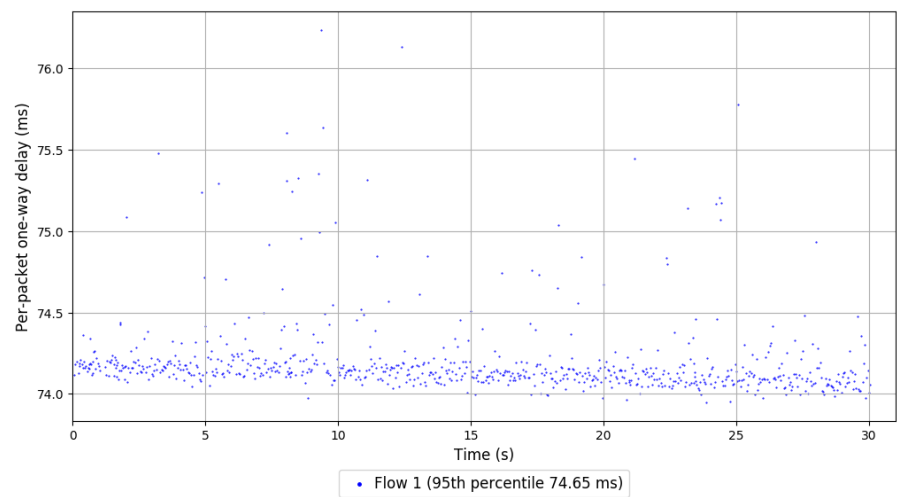
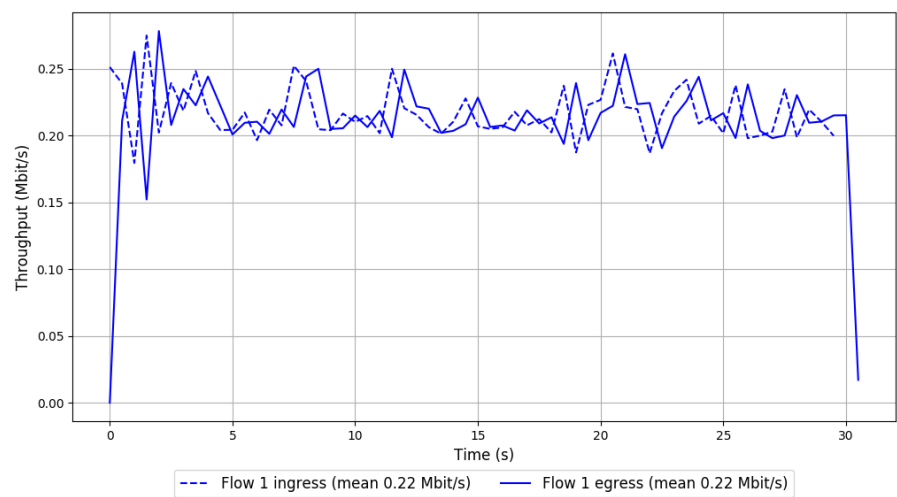


Run 1: Statistics of SCReAM

Start at: 2019-09-18 00:14:07  
End at: 2019-09-18 00:14:37  
Local clock offset: 3.466 ms  
Remote clock offset: -7.557 ms

# Below is generated by plot.py at 2019-09-18 02:33:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 74.647 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 74.647 ms  
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

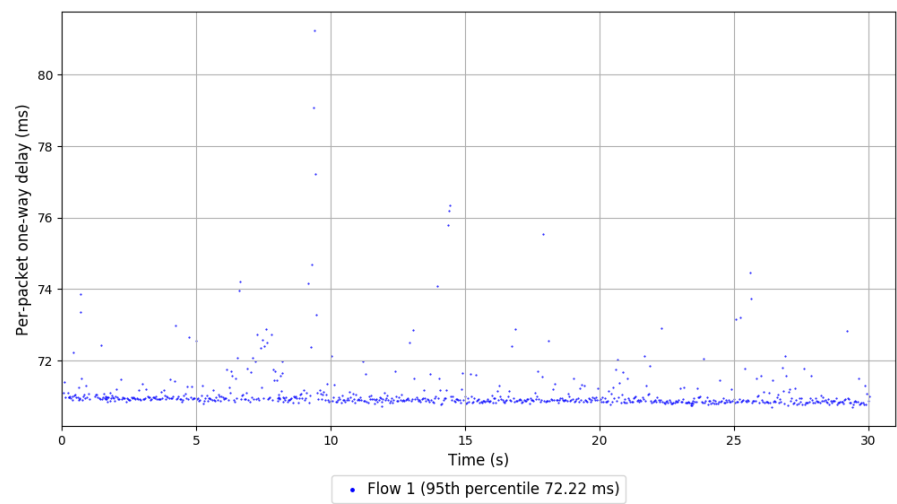
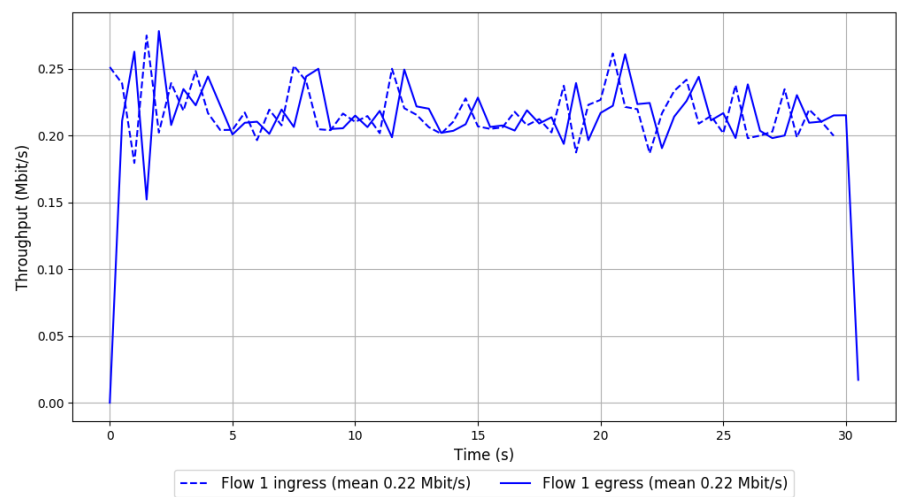


Run 2: Statistics of SCReAM

Start at: 2019-09-18 00:42:20  
End at: 2019-09-18 00:42:50  
Local clock offset: -4.572 ms  
Remote clock offset: -11.437 ms

# Below is generated by plot.py at 2019-09-18 02:33:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 72.218 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 72.218 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

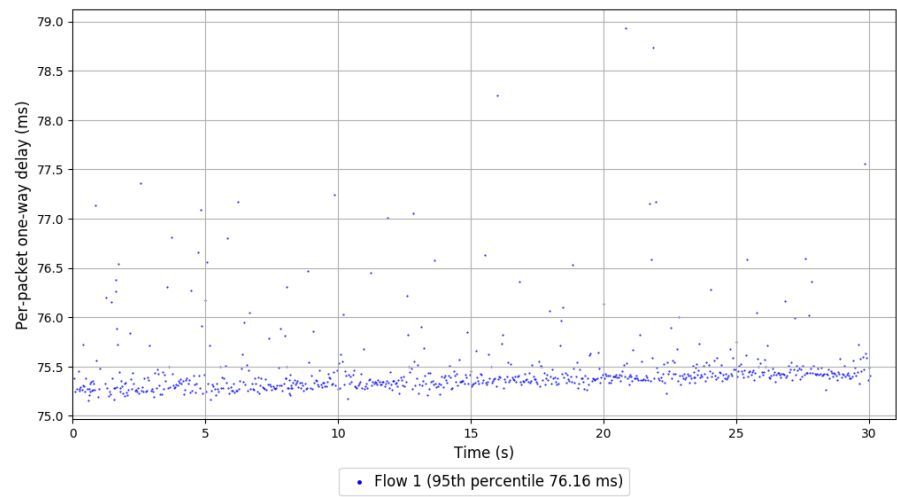
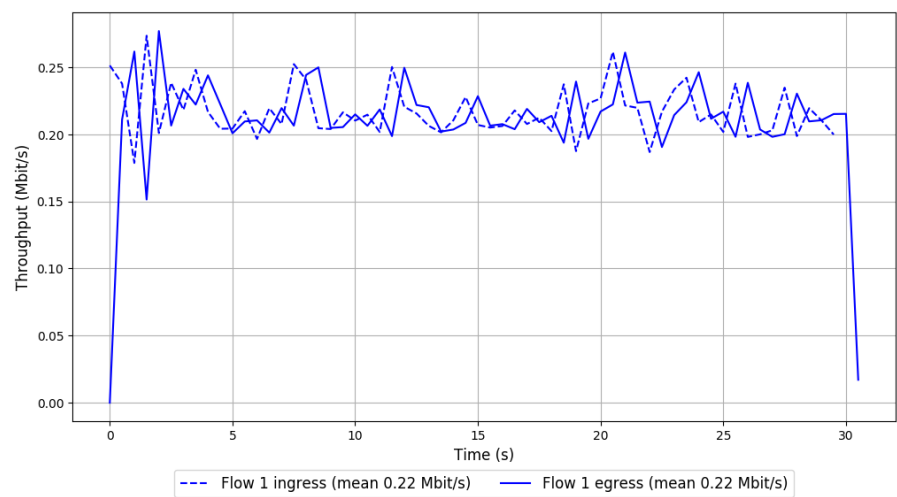


Run 3: Statistics of SCReAM

Start at: 2019-09-18 01:10:33  
End at: 2019-09-18 01:11:03  
Local clock offset: -1.452 ms  
Remote clock offset: -8.324 ms

# Below is generated by plot.py at 2019-09-18 02:33:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 76.159 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 76.159 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



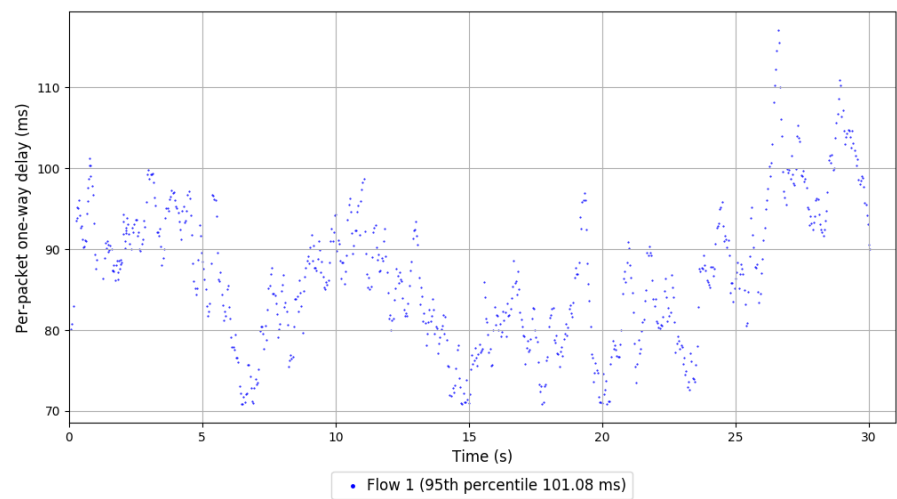
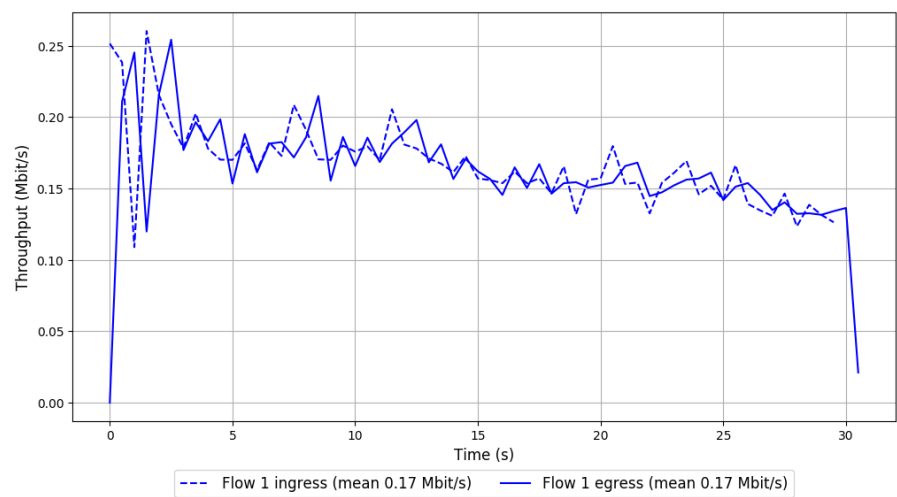


Run 4: Statistics of SCReAM

Start at: 2019-09-18 01:38:40  
End at: 2019-09-18 01:39:10  
Local clock offset: 2.291 ms  
Remote clock offset: -14.619 ms

# Below is generated by plot.py at 2019-09-18 02:33:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.17 Mbit/s  
95th percentile per-packet one-way delay: 101.081 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 0.17 Mbit/s  
95th percentile per-packet one-way delay: 101.081 ms  
Loss rate: 0.15%

Run 4: Report of SReAM — Data Link

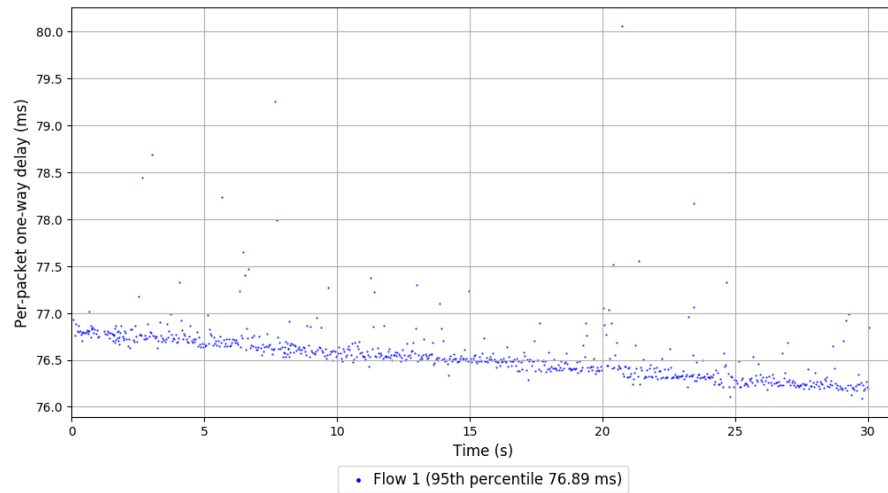
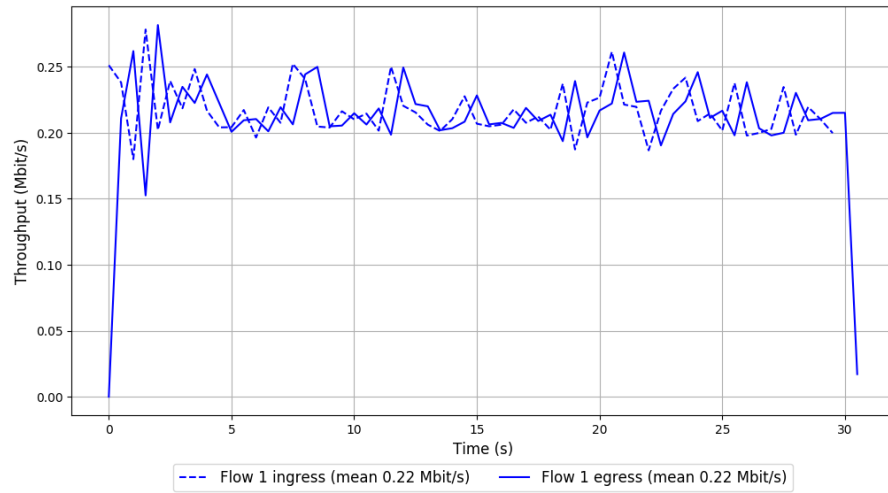


Run 5: Statistics of SCReAM

Start at: 2019-09-18 02:07:11  
End at: 2019-09-18 02:07:41  
Local clock offset: -9.941 ms  
Remote clock offset: -9.354 ms

# Below is generated by plot.py at 2019-09-18 02:33:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 76.893 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 76.893 ms  
Loss rate: 0.00%

## Run 5: Report of SReAM — Data Link

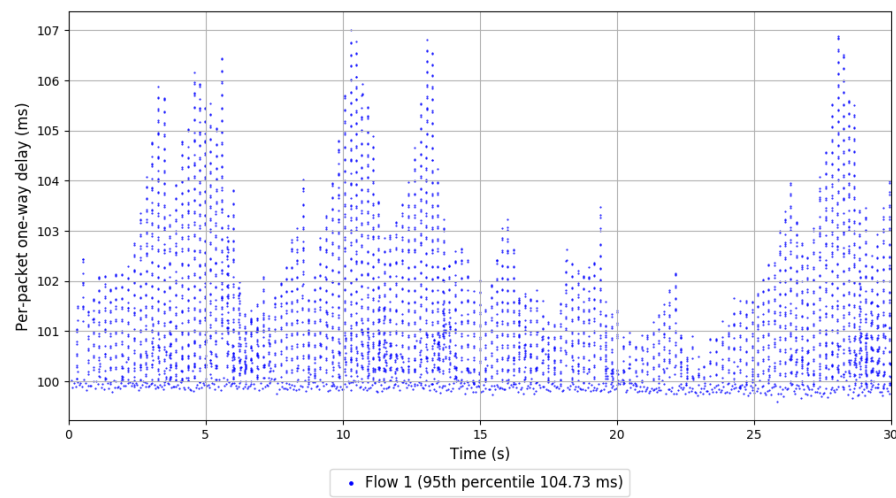
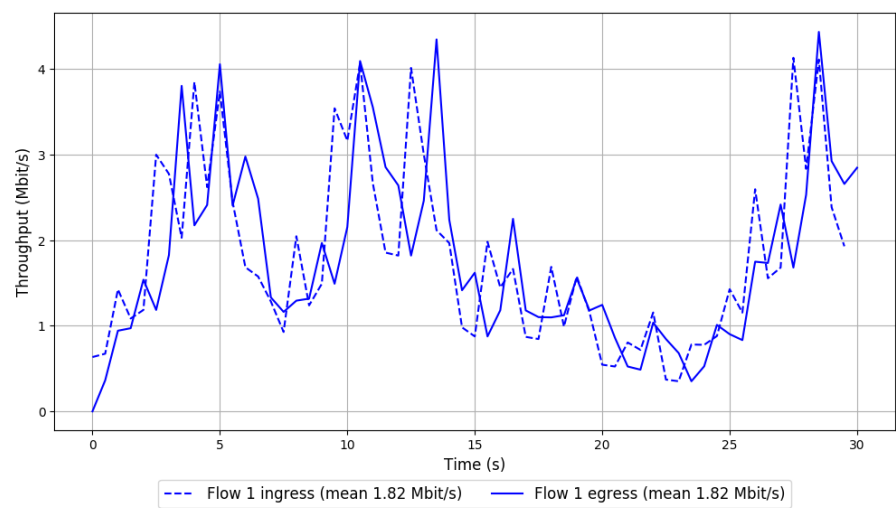


Run 1: Statistics of Sprout

Start at: 2019-09-18 00:12:59  
End at: 2019-09-18 00:13:29  
Local clock offset: 3.782 ms  
Remote clock offset: -8.871 ms

# Below is generated by plot.py at 2019-09-18 02:33:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.82 Mbit/s  
95th percentile per-packet one-way delay: 104.731 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.82 Mbit/s  
95th percentile per-packet one-way delay: 104.731 ms  
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

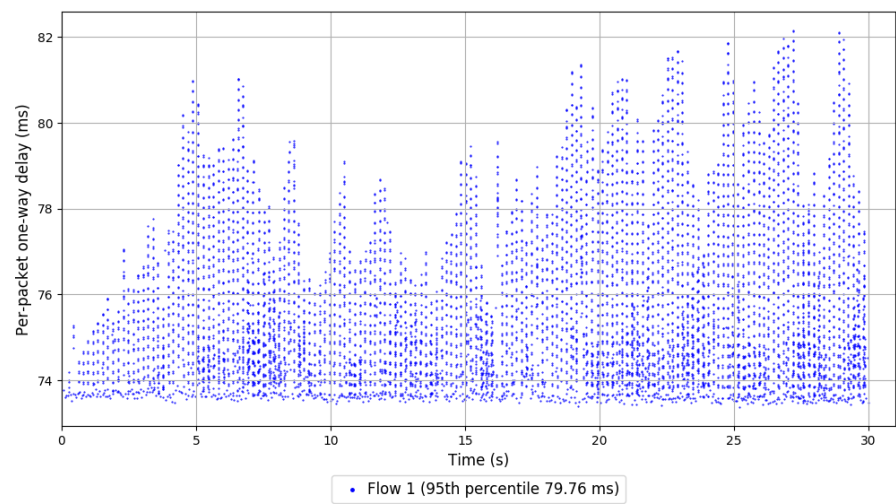
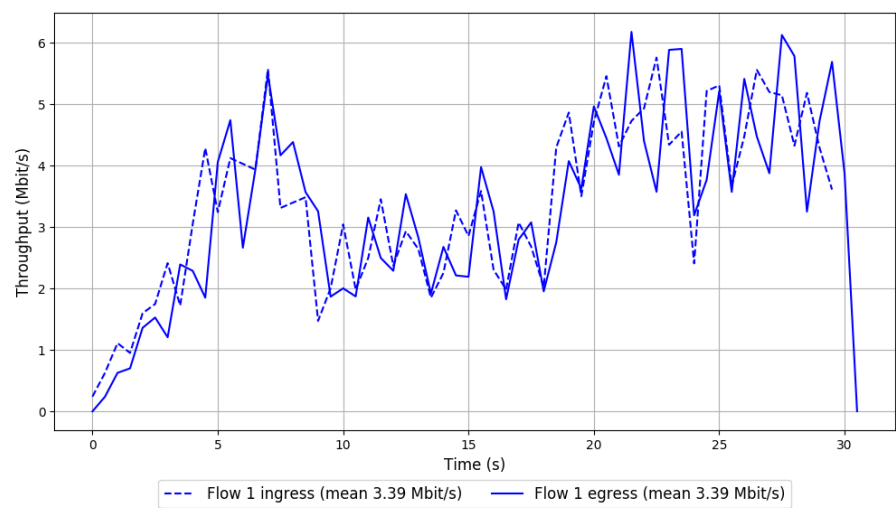


Run 2: Statistics of Sprout

Start at: 2019-09-18 00:41:12  
End at: 2019-09-18 00:41:42  
Local clock offset: -3.349 ms  
Remote clock offset: -8.424 ms

# Below is generated by plot.py at 2019-09-18 02:33:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 3.39 Mbit/s  
95th percentile per-packet one-way delay: 79.759 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 3.39 Mbit/s  
95th percentile per-packet one-way delay: 79.759 ms  
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link





Run 3: Statistics of Sprout

Start at: 2019-09-18 01:09:25

End at: 2019-09-18 01:09:55

Local clock offset: -1.06 ms

Remote clock offset: -9.0 ms

# Below is generated by plot.py at 2019-09-18 02:33:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.70 Mbit/s

95th percentile per-packet one-way delay: 105.140 ms

Loss rate: 0.41%

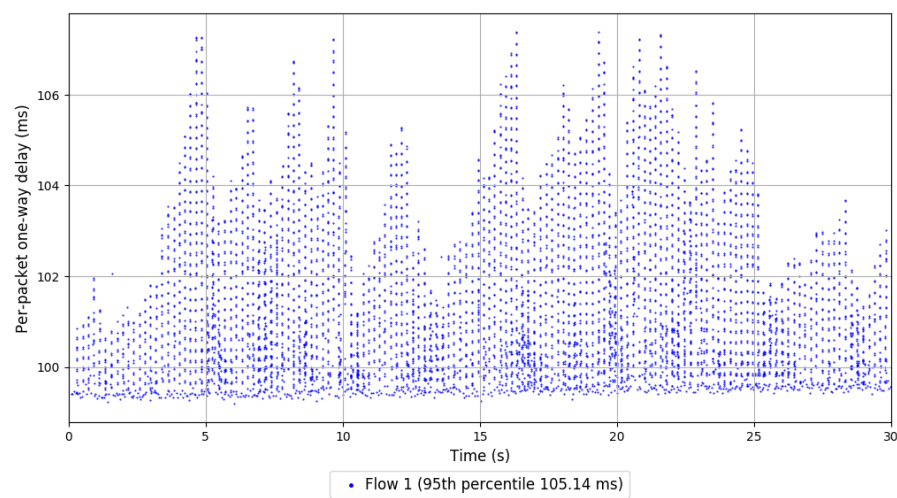
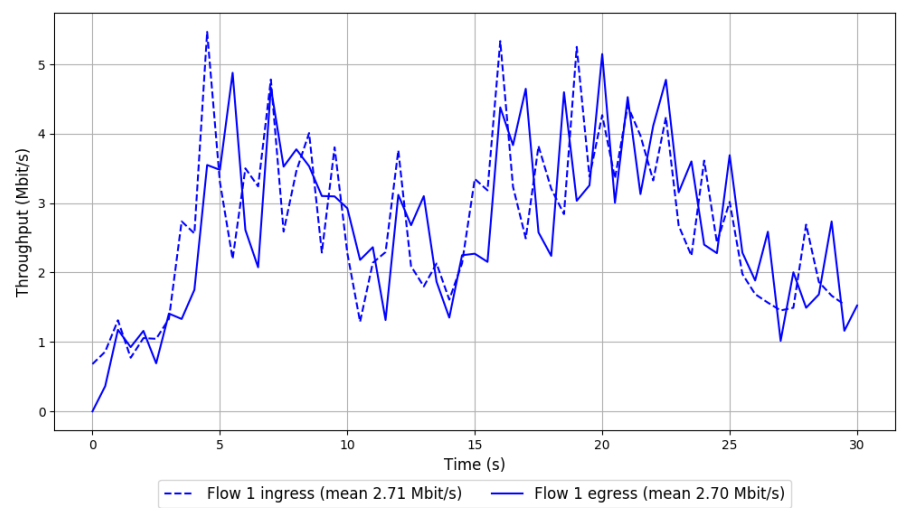
-- Flow 1:

Average throughput: 2.70 Mbit/s

95th percentile per-packet one-way delay: 105.140 ms

Loss rate: 0.41%

Run 3: Report of Sprout — Data Link

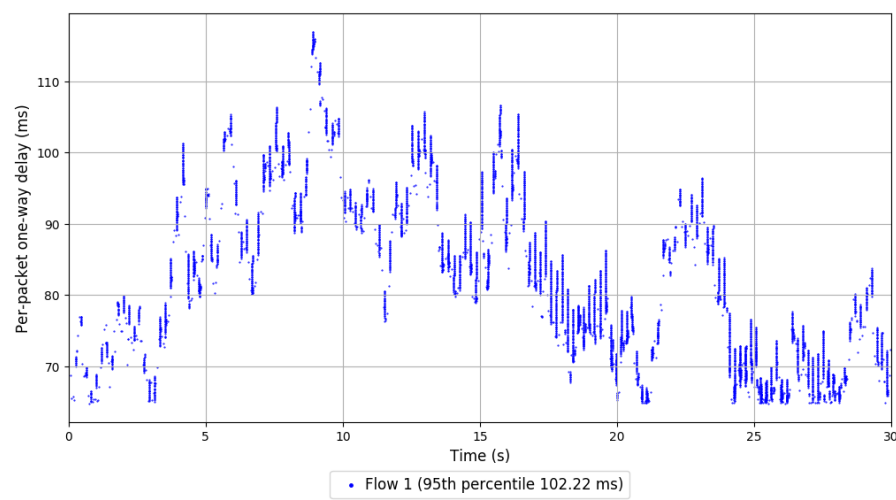
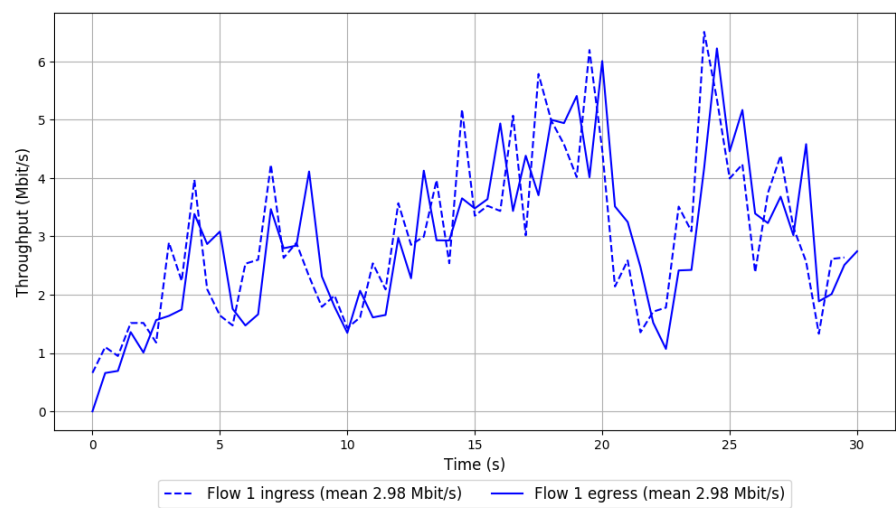


Run 4: Statistics of Sprout

Start at: 2019-09-18 01:37:31  
End at: 2019-09-18 01:38:02  
Local clock offset: 2.375 ms  
Remote clock offset: -18.855 ms

# Below is generated by plot.py at 2019-09-18 02:33:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.98 Mbit/s  
95th percentile per-packet one-way delay: 102.216 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.98 Mbit/s  
95th percentile per-packet one-way delay: 102.216 ms  
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

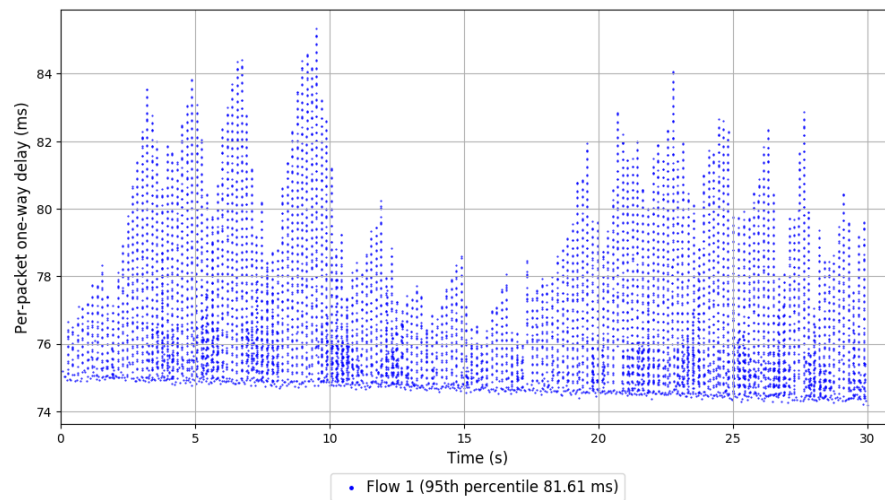
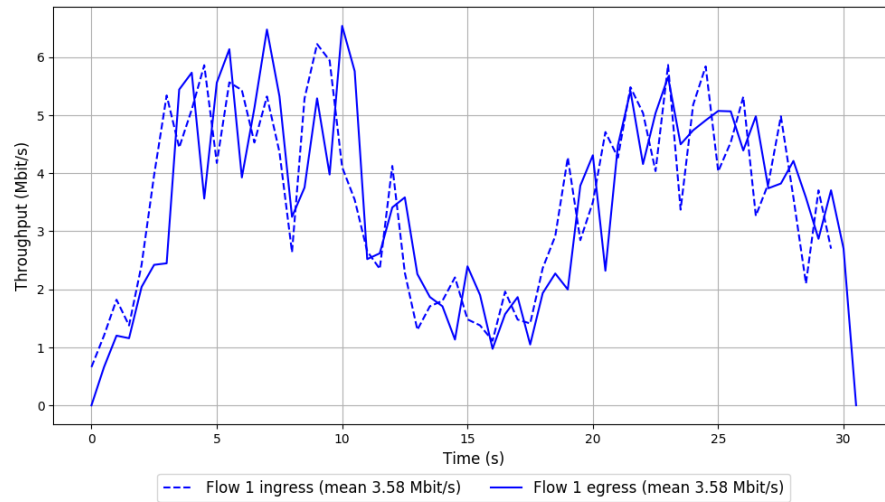


Run 5: Statistics of Sprout

Start at: 2019-09-18 02:06:03  
End at: 2019-09-18 02:06:33  
Local clock offset: -7.646 ms  
Remote clock offset: -10.487 ms

# Below is generated by plot.py at 2019-09-18 02:33:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 3.58 Mbit/s  
95th percentile per-packet one-way delay: 81.613 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 3.58 Mbit/s  
95th percentile per-packet one-way delay: 81.613 ms  
Loss rate: 0.00%

## Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-09-18 00:28:15

End at: 2019-09-18 00:28:45

Local clock offset: 2.007 ms

Remote clock offset: -8.715 ms

# Below is generated by plot.py at 2019-09-18 02:33:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.48 Mbit/s

95th percentile per-packet one-way delay: 77.845 ms

Loss rate: 27.18%

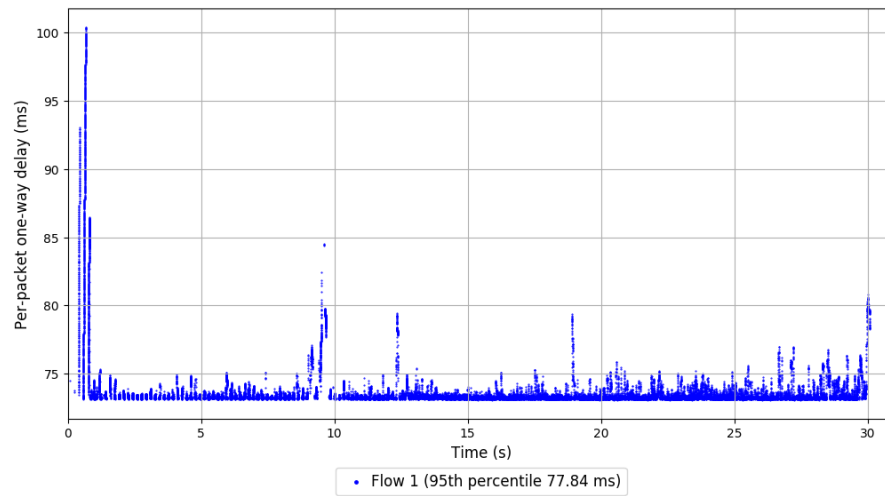
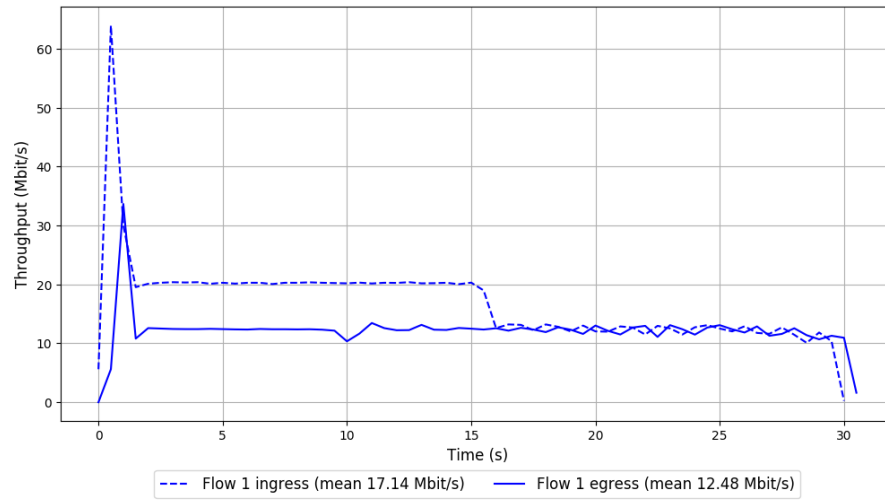
-- Flow 1:

Average throughput: 12.48 Mbit/s

95th percentile per-packet one-way delay: 77.845 ms

Loss rate: 27.18%

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





Run 2: Statistics of TaoVA-100x

Start at: 2019-09-18 00:56:28

End at: 2019-09-18 00:56:58

Local clock offset: -7.272 ms

Remote clock offset: -9.901 ms

# Below is generated by plot.py at 2019-09-18 02:33:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.59 Mbit/s

95th percentile per-packet one-way delay: 75.505 ms

Loss rate: 30.40%

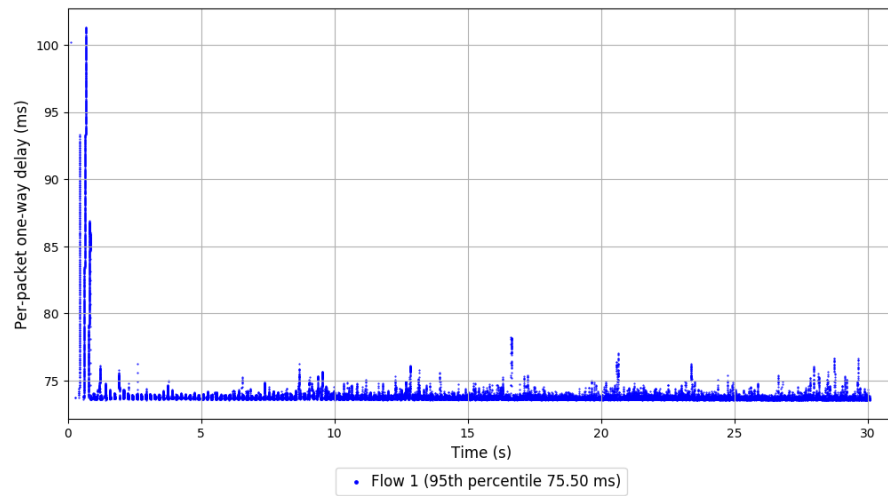
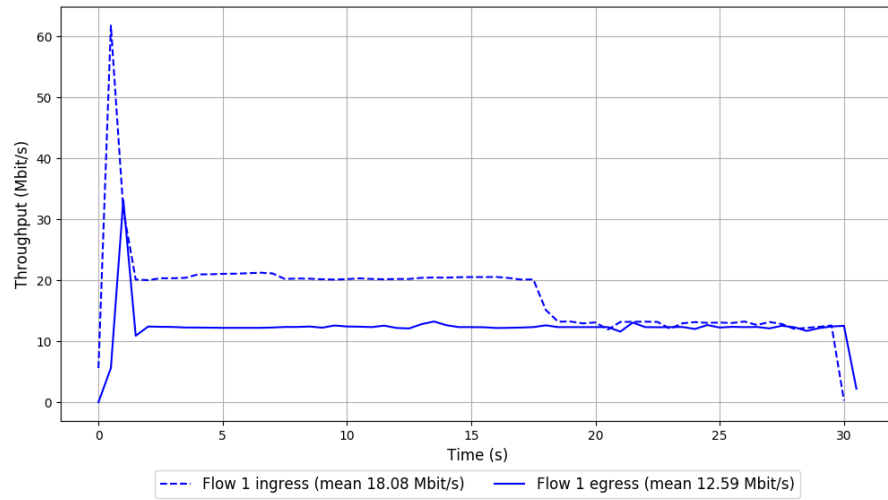
-- Flow 1:

Average throughput: 12.59 Mbit/s

95th percentile per-packet one-way delay: 75.505 ms

Loss rate: 30.40%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-09-18 01:24:38

End at: 2019-09-18 01:25:08

Local clock offset: 1.187 ms

Remote clock offset: -9.652 ms

# Below is generated by plot.py at 2019-09-18 02:33:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.54 Mbit/s

95th percentile per-packet one-way delay: 76.859 ms

Loss rate: 20.17%

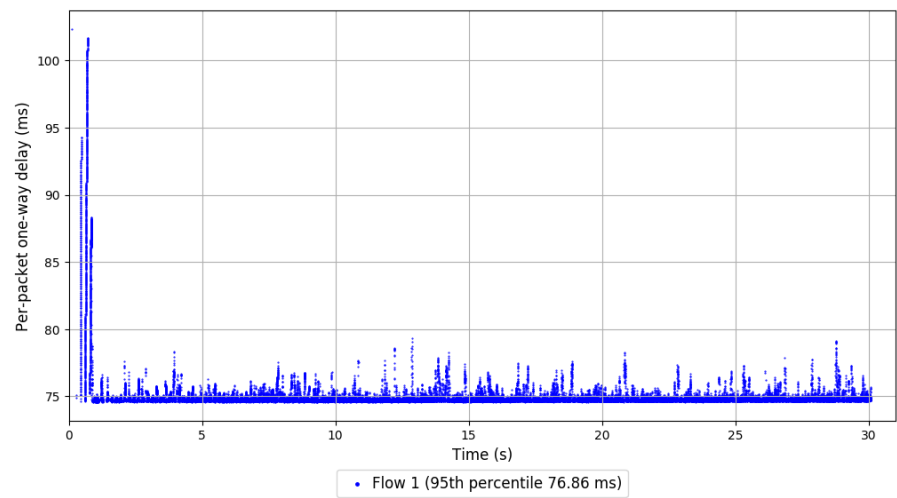
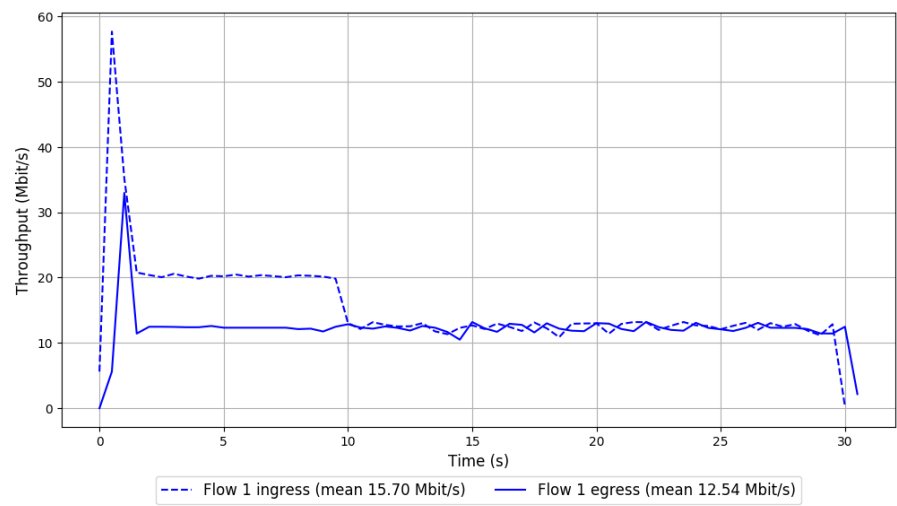
-- Flow 1:

Average throughput: 12.54 Mbit/s

95th percentile per-packet one-way delay: 76.859 ms

Loss rate: 20.17%

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

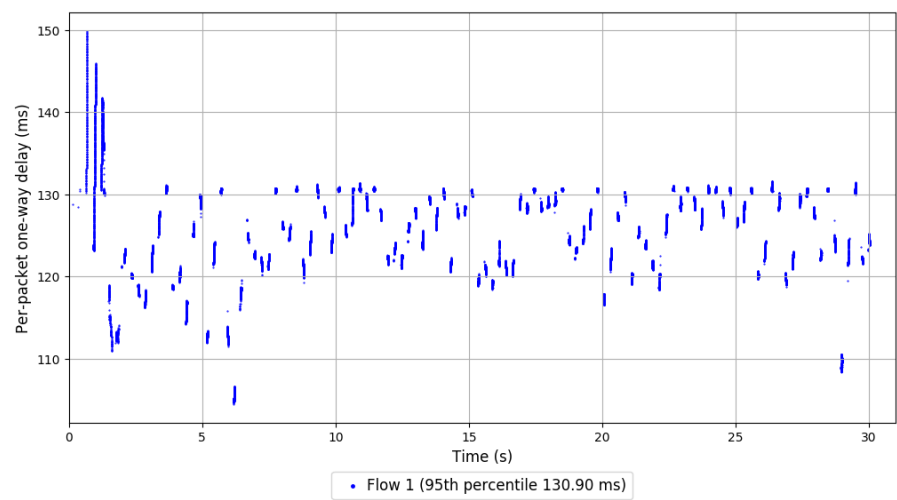
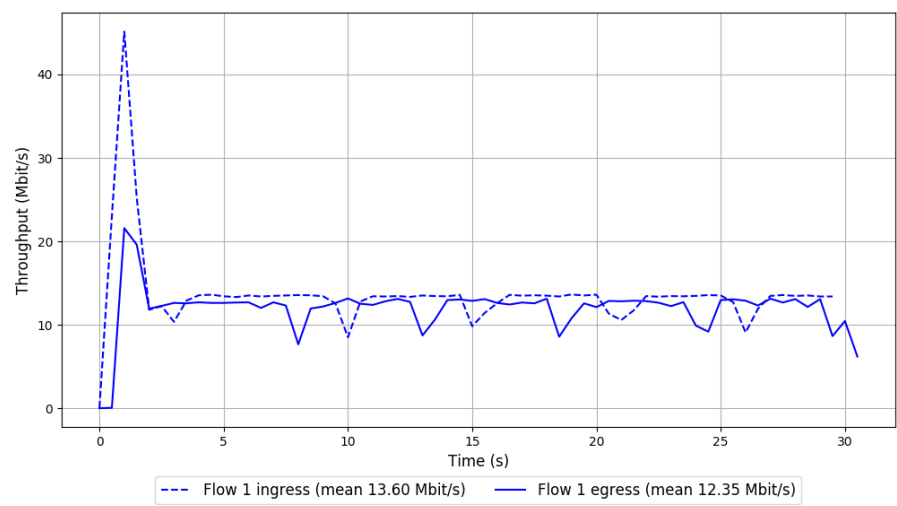


Run 4: Statistics of TaoVA-100x

Start at: 2019-09-18 01:53:00  
End at: 2019-09-18 01:53:30  
Local clock offset: 2.495 ms  
Remote clock offset: -52.78 ms

# Below is generated by plot.py at 2019-09-18 02:33:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.35 Mbit/s  
95th percentile per-packet one-way delay: 130.902 ms  
Loss rate: 9.24%  
-- Flow 1:  
Average throughput: 12.35 Mbit/s  
95th percentile per-packet one-way delay: 130.902 ms  
Loss rate: 9.24%

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

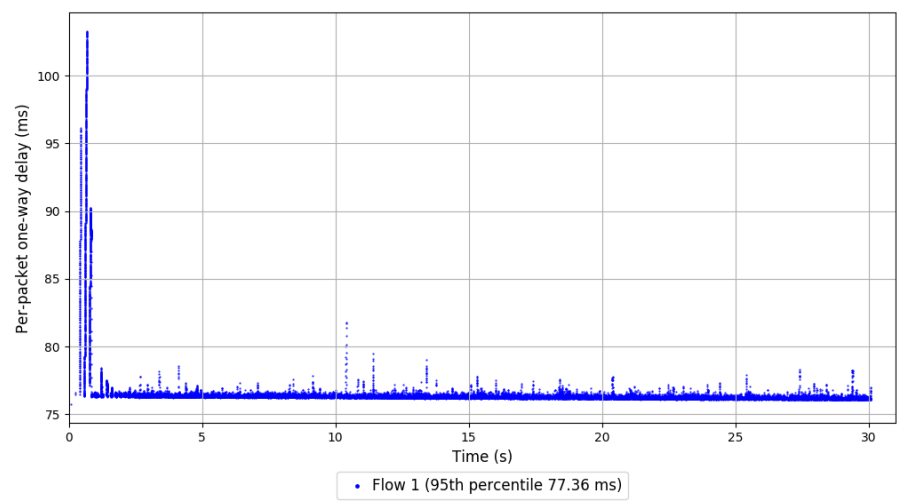
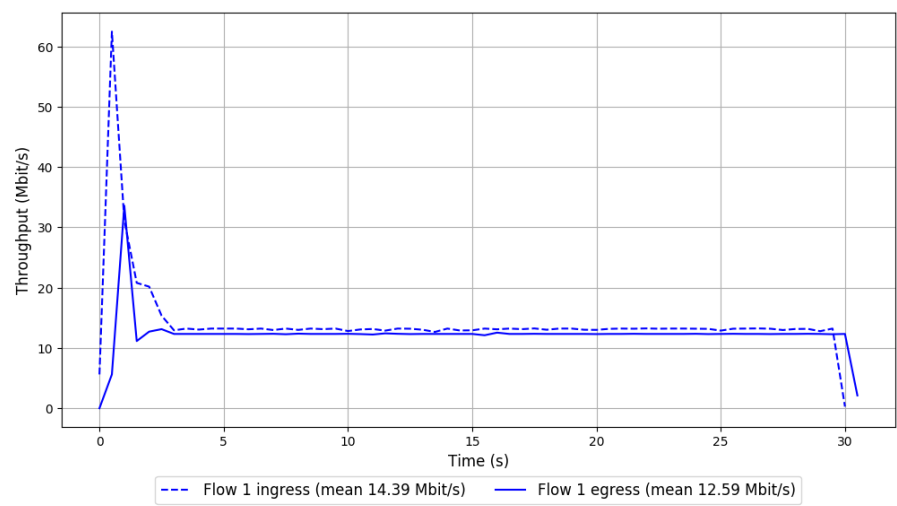


Run 5: Statistics of TaoVA-100x

Start at: 2019-09-18 02:21:22  
End at: 2019-09-18 02:21:52  
Local clock offset: -20.69 ms  
Remote clock offset: -10.171 ms

# Below is generated by plot.py at 2019-09-18 02:33:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.59 Mbit/s  
95th percentile per-packet one-way delay: 77.356 ms  
Loss rate: 12.47%  
-- Flow 1:  
Average throughput: 12.59 Mbit/s  
95th percentile per-packet one-way delay: 77.356 ms  
Loss rate: 12.47%

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



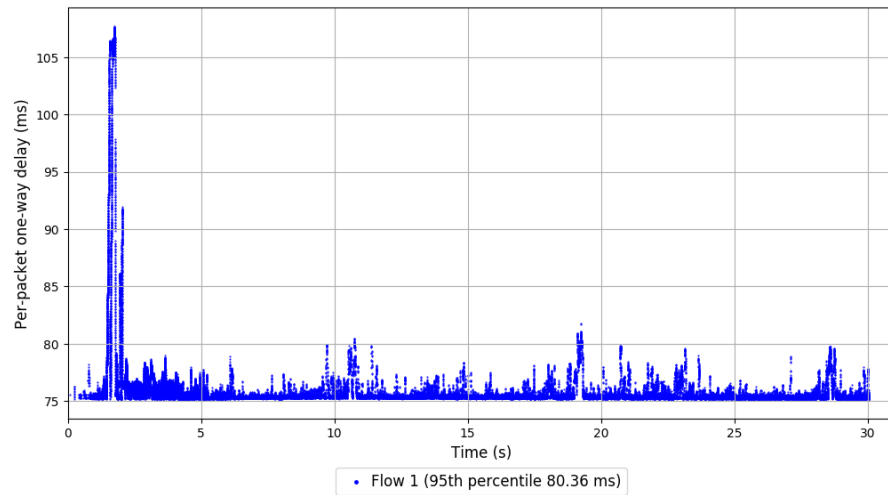
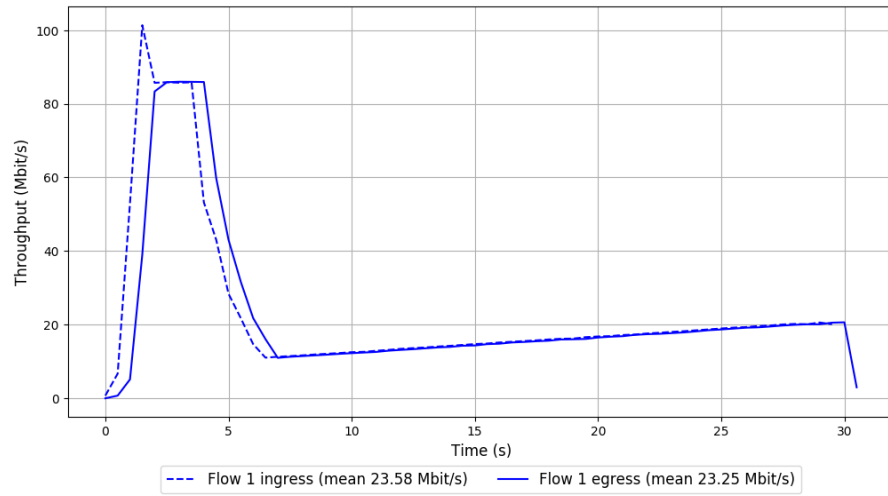


Run 1: Statistics of TCP Vegas

Start at: 2019-09-18 00:21:12  
End at: 2019-09-18 00:21:42  
Local clock offset: 2.767 ms  
Remote clock offset: -7.981 ms

# Below is generated by plot.py at 2019-09-18 02:33:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 23.25 Mbit/s  
95th percentile per-packet one-way delay: 80.357 ms  
Loss rate: 1.43%  
-- Flow 1:  
Average throughput: 23.25 Mbit/s  
95th percentile per-packet one-way delay: 80.357 ms  
Loss rate: 1.43%

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

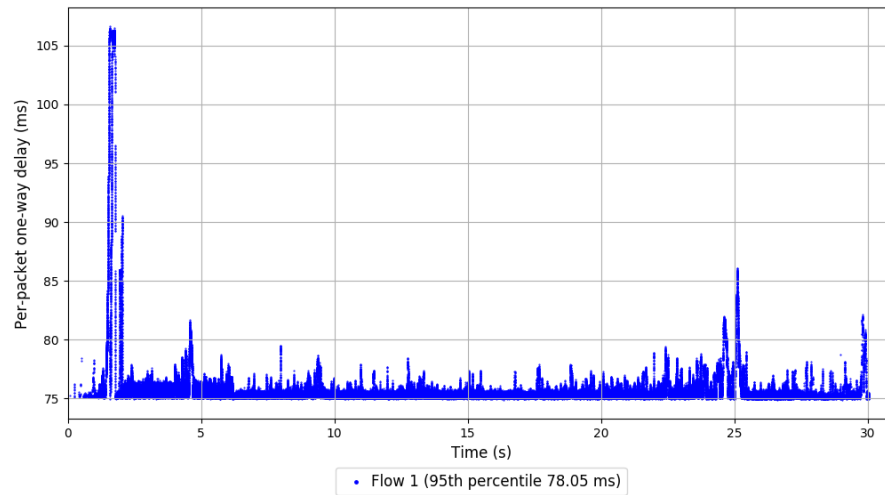
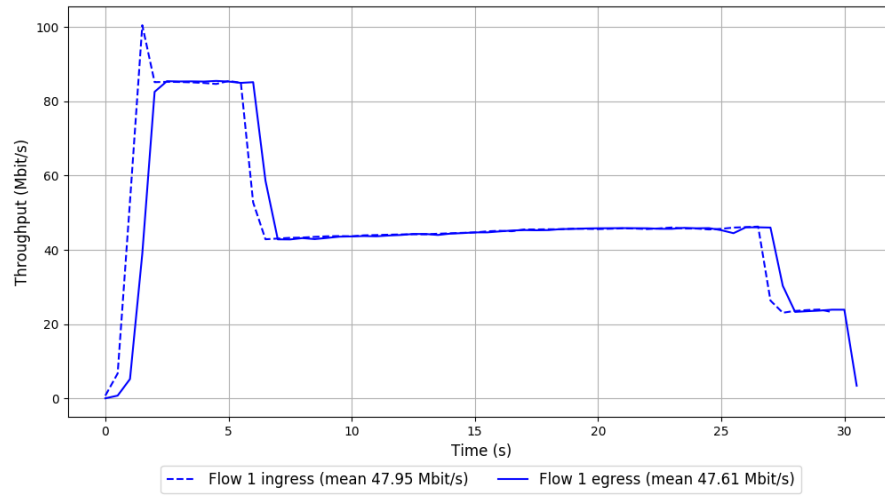


Run 2: Statistics of TCP Vegas

Start at: 2019-09-18 00:49:24  
End at: 2019-09-18 00:49:54  
Local clock offset: -6.102 ms  
Remote clock offset: -9.141 ms

# Below is generated by plot.py at 2019-09-18 02:33:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 47.61 Mbit/s  
95th percentile per-packet one-way delay: 78.053 ms  
Loss rate: 0.70%  
-- Flow 1:  
Average throughput: 47.61 Mbit/s  
95th percentile per-packet one-way delay: 78.053 ms  
Loss rate: 0.70%

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

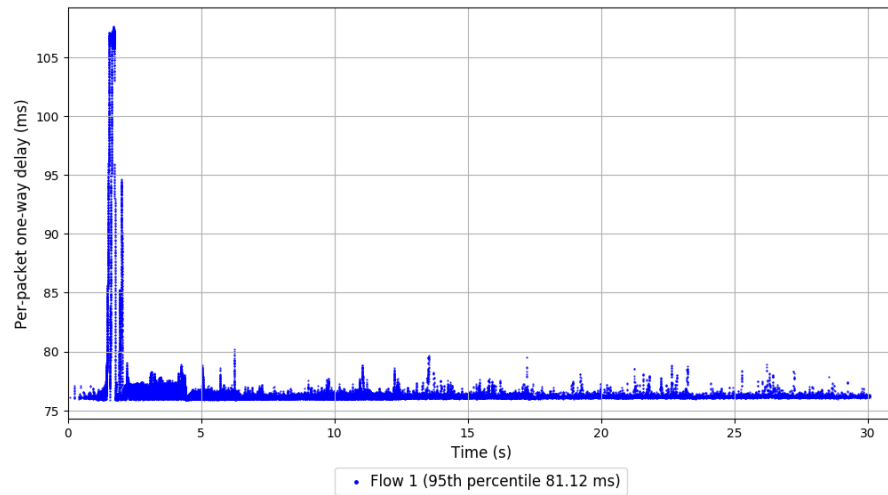
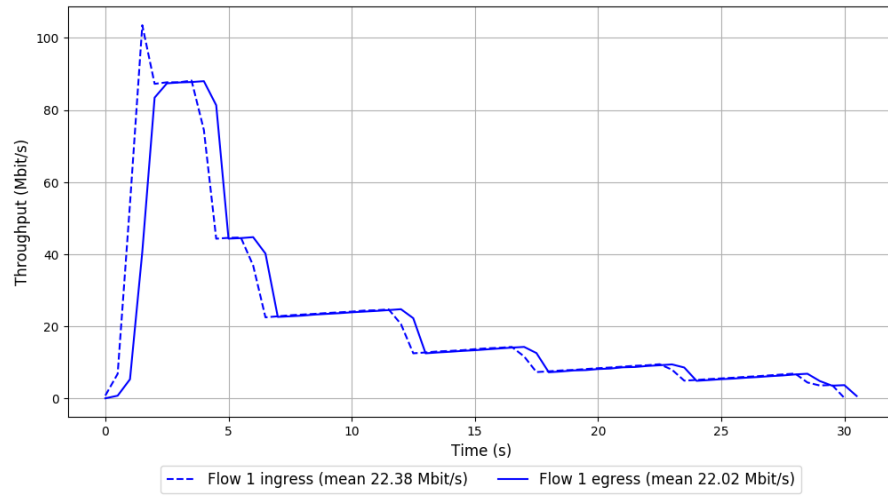


Run 3: Statistics of TCP Vegas

Start at: 2019-09-18 01:17:34  
End at: 2019-09-18 01:18:04  
Local clock offset: 0.352 ms  
Remote clock offset: -9.197 ms

# Below is generated by plot.py at 2019-09-18 02:33:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 22.02 Mbit/s  
95th percentile per-packet one-way delay: 81.117 ms  
Loss rate: 1.60%  
-- Flow 1:  
Average throughput: 22.02 Mbit/s  
95th percentile per-packet one-way delay: 81.117 ms  
Loss rate: 1.60%

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

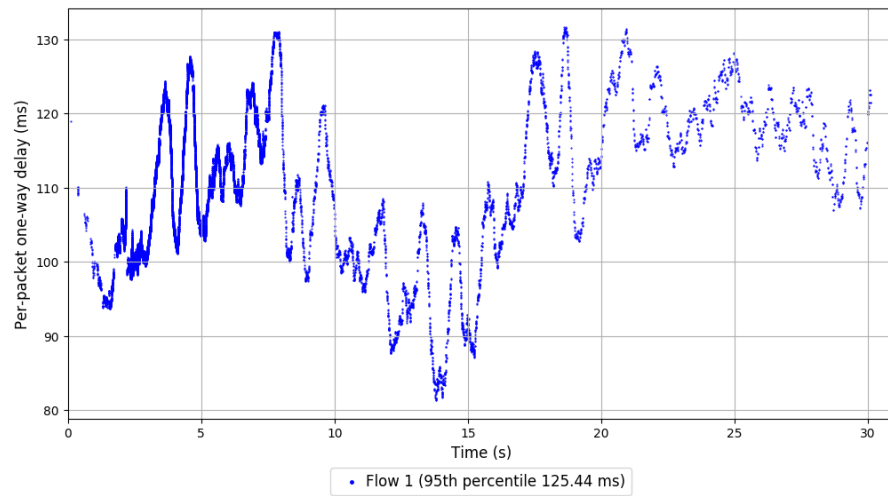
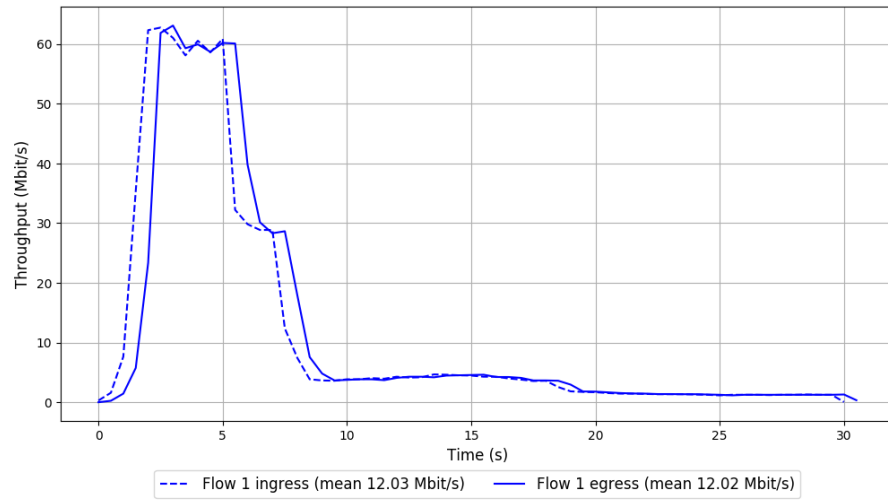


Run 4: Statistics of TCP Vegas

Start at: 2019-09-18 01:45:49  
End at: 2019-09-18 01:46:19  
Local clock offset: 1.62 ms  
Remote clock offset: -52.09 ms

# Below is generated by plot.py at 2019-09-18 02:33:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.02 Mbit/s  
95th percentile per-packet one-way delay: 125.443 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 12.02 Mbit/s  
95th percentile per-packet one-way delay: 125.443 ms  
Loss rate: 0.08%

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



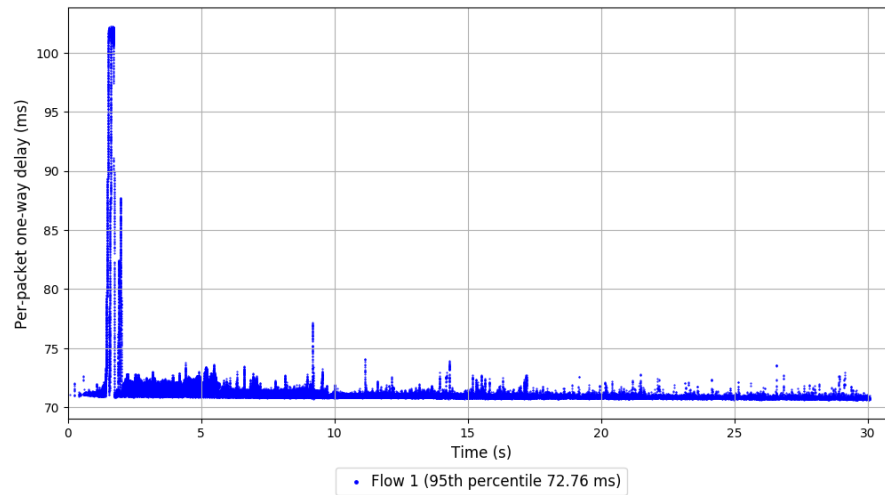
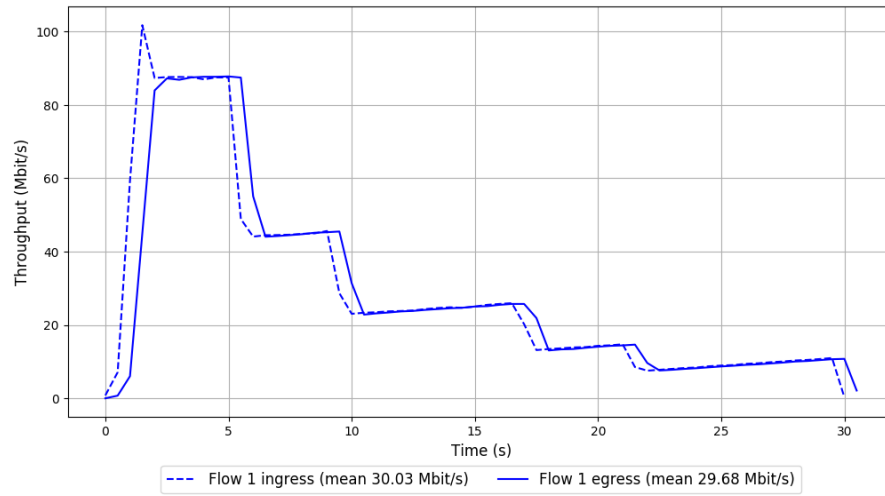


Run 5: Statistics of TCP Vegas

Start at: 2019-09-18 02:14:18  
End at: 2019-09-18 02:14:49  
Local clock offset: -17.291 ms  
Remote clock offset: -14.029 ms

# Below is generated by plot.py at 2019-09-18 02:33:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 29.68 Mbit/s  
95th percentile per-packet one-way delay: 72.761 ms  
Loss rate: 1.16%  
-- Flow 1:  
Average throughput: 29.68 Mbit/s  
95th percentile per-packet one-way delay: 72.761 ms  
Loss rate: 1.16%

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

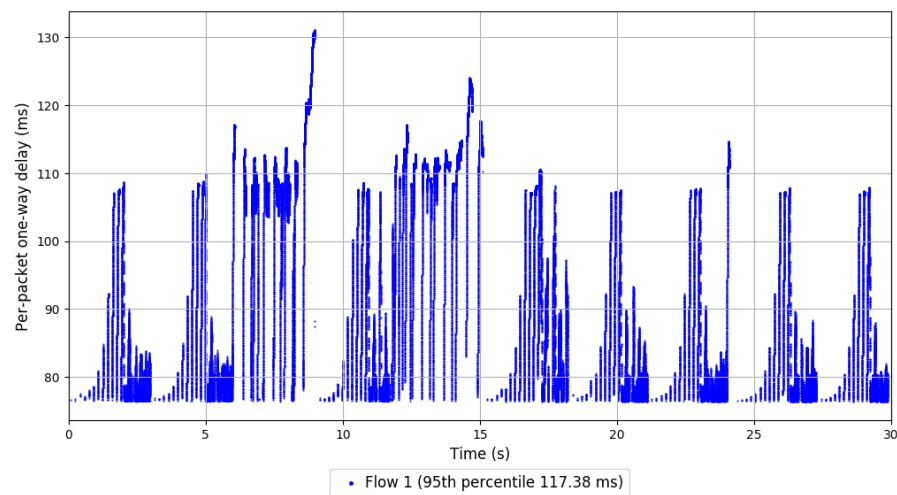
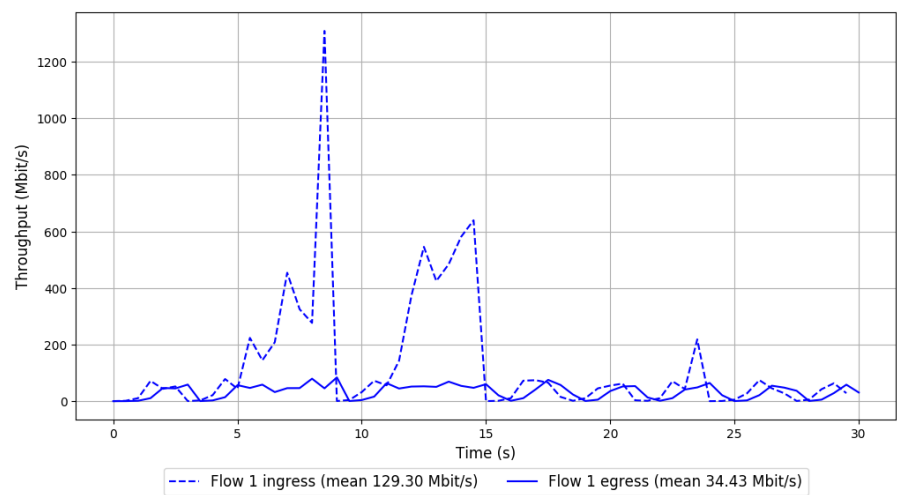


Run 1: Statistics of Verus

Start at: 2019-09-18 00:17:38  
End at: 2019-09-18 00:18:08  
Local clock offset: 2.686 ms  
Remote clock offset: -6.775 ms

# Below is generated by plot.py at 2019-09-18 02:33:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 34.43 Mbit/s  
95th percentile per-packet one-way delay: 117.383 ms  
Loss rate: 73.37%  
-- Flow 1:  
Average throughput: 34.43 Mbit/s  
95th percentile per-packet one-way delay: 117.383 ms  
Loss rate: 73.37%

Run 1: Report of Verus — Data Link

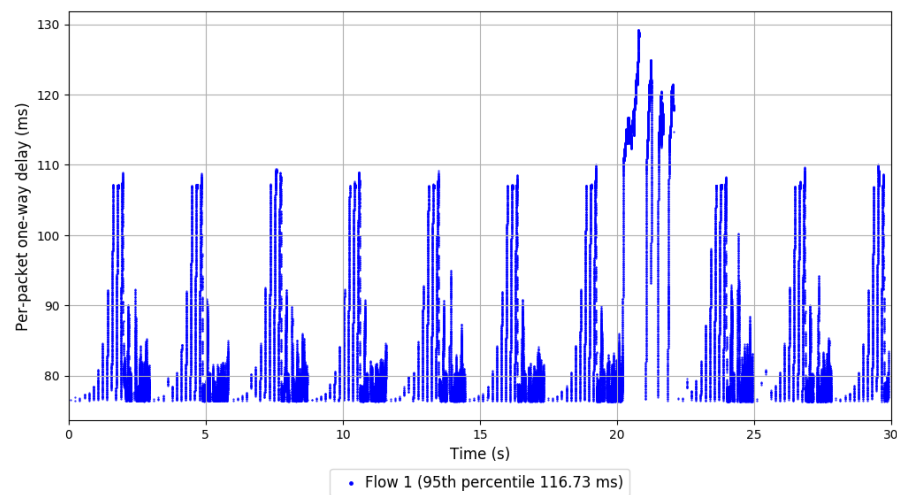
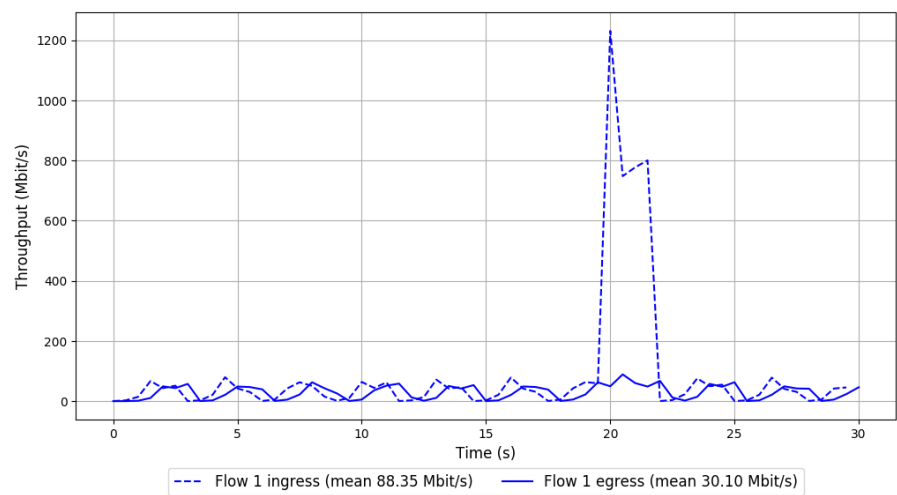


Run 2: Statistics of Verus

Start at: 2019-09-18 00:45:51  
End at: 2019-09-18 00:46:21  
Local clock offset: -4.588 ms  
Remote clock offset: -7.159 ms

# Below is generated by plot.py at 2019-09-18 02:33:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 30.10 Mbit/s  
95th percentile per-packet one-way delay: 116.731 ms  
Loss rate: 65.92%  
-- Flow 1:  
Average throughput: 30.10 Mbit/s  
95th percentile per-packet one-way delay: 116.731 ms  
Loss rate: 65.92%

Run 2: Report of Verus — Data Link

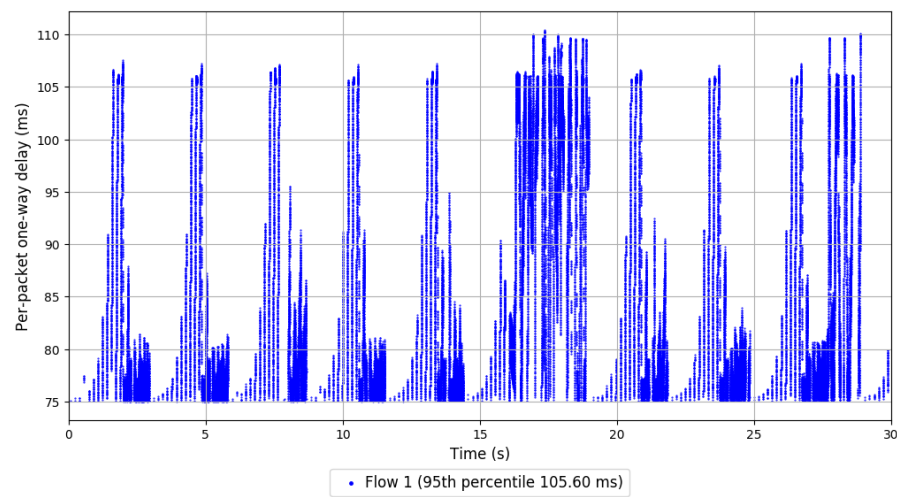
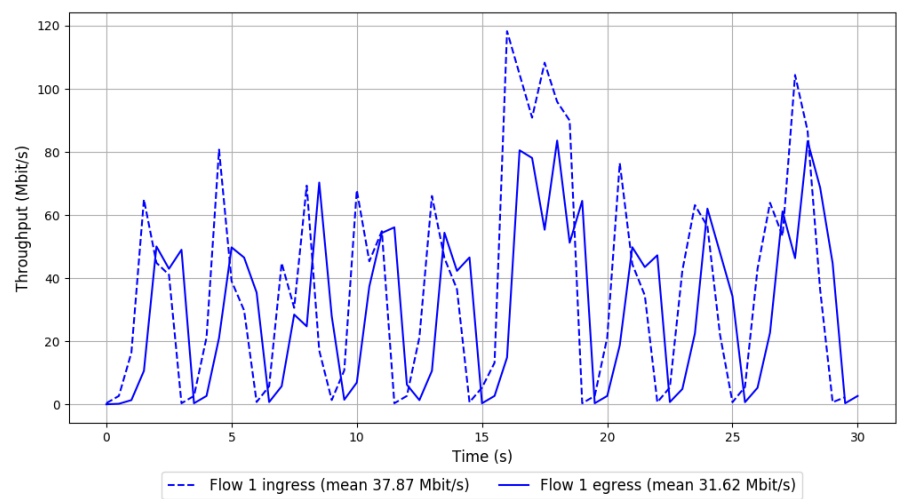


Run 3: Statistics of Verus

Start at: 2019-09-18 01:14:04  
End at: 2019-09-18 01:14:34  
Local clock offset: 0.348 ms  
Remote clock offset: -9.278 ms

# Below is generated by plot.py at 2019-09-18 02:33:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 31.62 Mbit/s  
95th percentile per-packet one-way delay: 105.596 ms  
Loss rate: 16.47%  
-- Flow 1:  
Average throughput: 31.62 Mbit/s  
95th percentile per-packet one-way delay: 105.596 ms  
Loss rate: 16.47%

Run 3: Report of Verus — Data Link



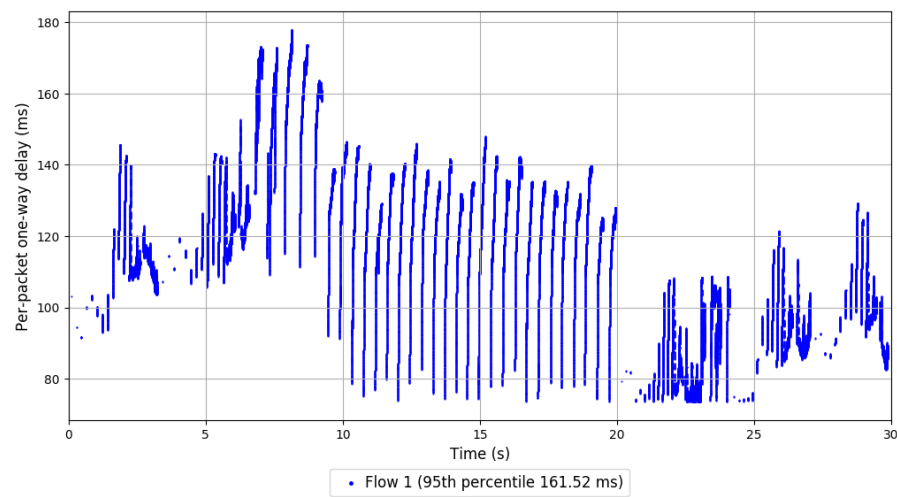
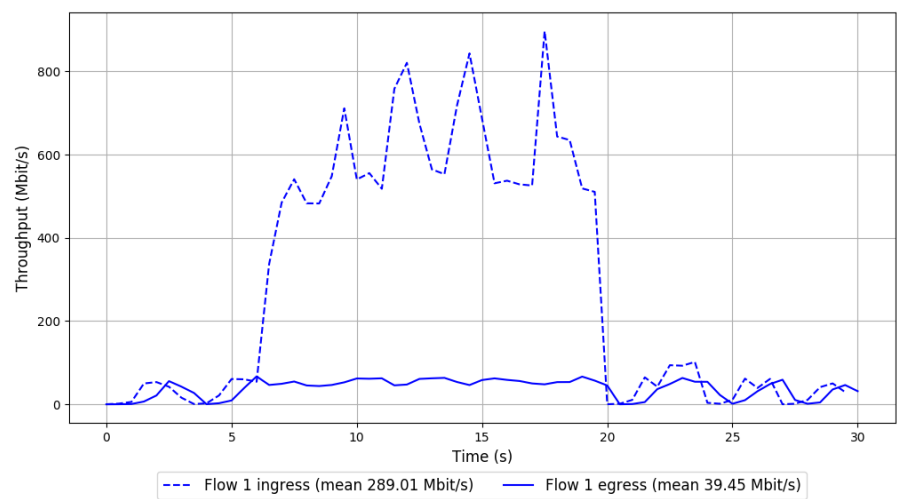


Run 4: Statistics of Verus

Start at: 2019-09-18 01:42:12  
End at: 2019-09-18 01:42:42  
Local clock offset: 1.61 ms  
Remote clock offset: -10.815 ms

# Below is generated by plot.py at 2019-09-18 02:34:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 39.45 Mbit/s  
95th percentile per-packet one-way delay: 161.519 ms  
Loss rate: 86.36%  
-- Flow 1:  
Average throughput: 39.45 Mbit/s  
95th percentile per-packet one-way delay: 161.519 ms  
Loss rate: 86.36%

Run 4: Report of Verus — Data Link

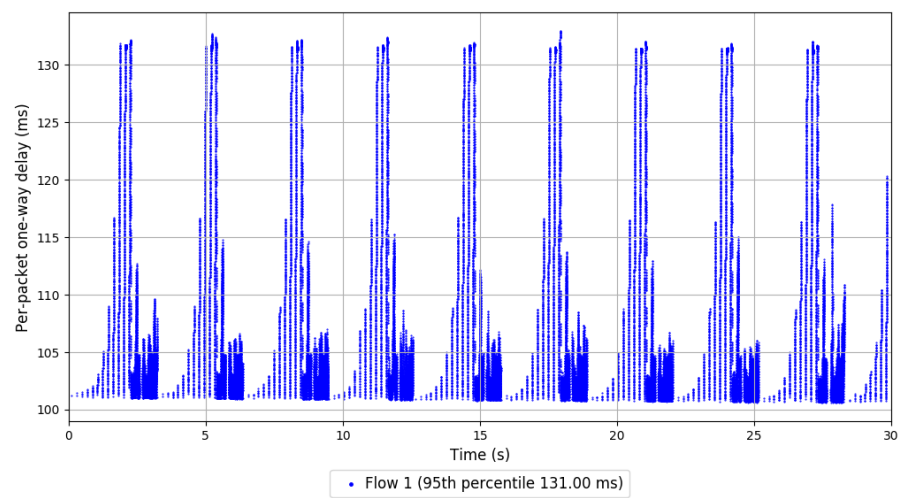
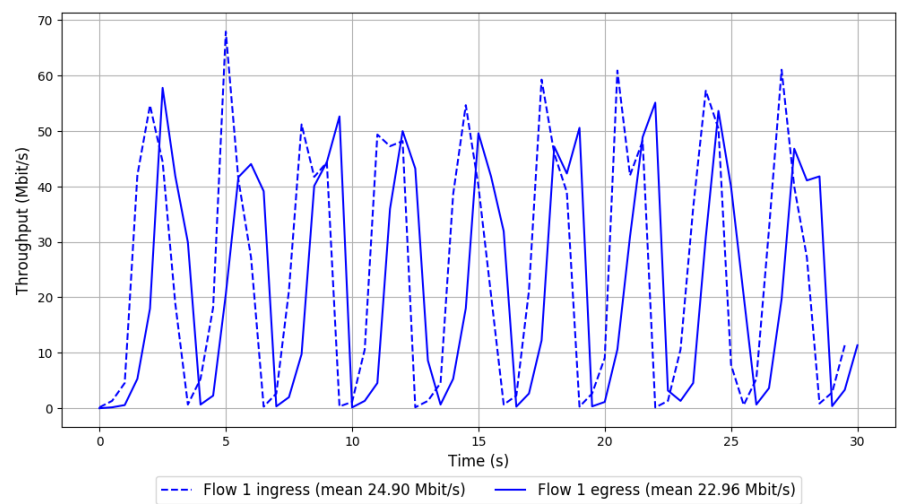


Run 5: Statistics of Verus

Start at: 2019-09-18 02:10:42  
End at: 2019-09-18 02:11:12  
Local clock offset: -13.447 ms  
Remote clock offset: -9.909 ms

# Below is generated by plot.py at 2019-09-18 02:34:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 22.96 Mbit/s  
95th percentile per-packet one-way delay: 131.001 ms  
Loss rate: 7.71%  
-- Flow 1:  
Average throughput: 22.96 Mbit/s  
95th percentile per-packet one-way delay: 131.001 ms  
Loss rate: 7.71%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-09-18 00:27:02

End at: 2019-09-18 00:27:32

Local clock offset: 1.383 ms

Remote clock offset: -8.063 ms

# Below is generated by plot.py at 2019-09-18 02:34:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 77.41 Mbit/s

95th percentile per-packet one-way delay: 82.789 ms

Loss rate: 0.04%

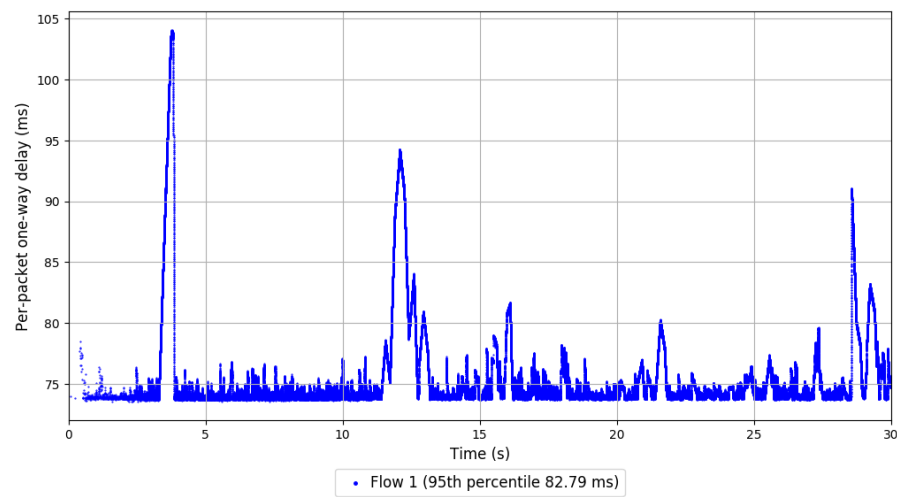
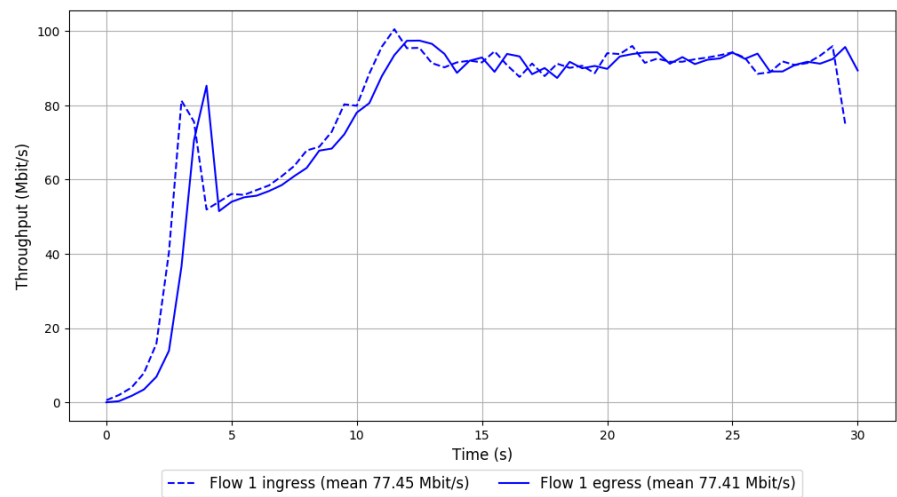
-- Flow 1:

Average throughput: 77.41 Mbit/s

95th percentile per-packet one-way delay: 82.789 ms

Loss rate: 0.04%

Run 1: Report of PCC-Vivace — Data Link

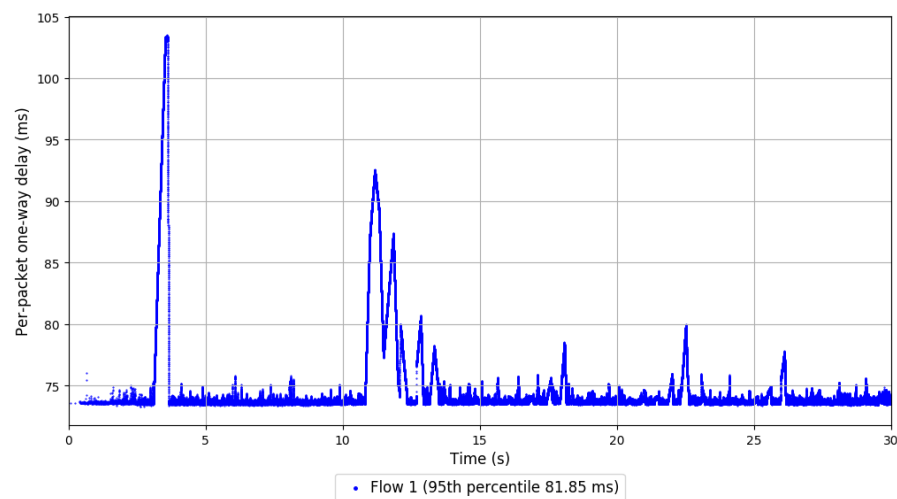
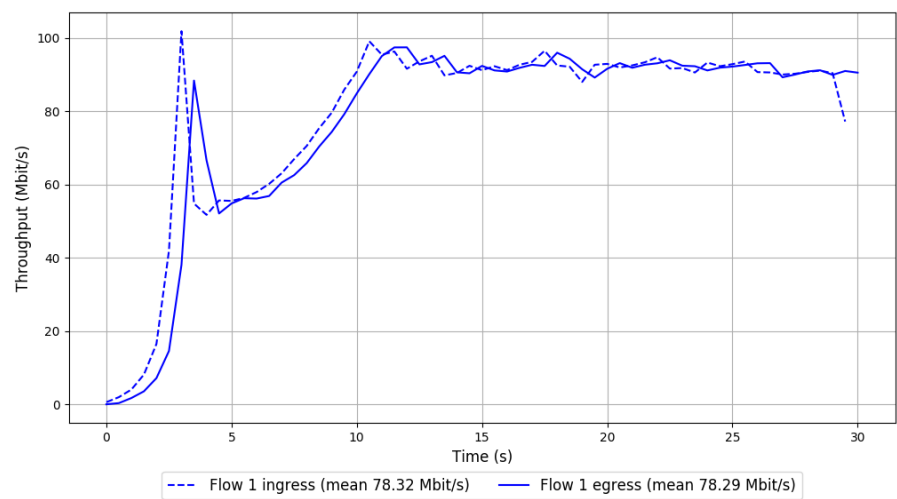


Run 2: Statistics of PCC-Vivace

Start at: 2019-09-18 00:55:15  
End at: 2019-09-18 00:55:46  
Local clock offset: -6.324 ms  
Remote clock offset: -9.044 ms

# Below is generated by plot.py at 2019-09-18 02:34:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 78.29 Mbit/s  
95th percentile per-packet one-way delay: 81.846 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 78.29 Mbit/s  
95th percentile per-packet one-way delay: 81.846 ms  
Loss rate: 0.03%

Run 2: Report of PCC-Vivace — Data Link





Run 3: Statistics of PCC-Vivace

Start at: 2019-09-18 01:23:25

End at: 2019-09-18 01:23:56

Local clock offset: 1.138 ms

Remote clock offset: -8.77 ms

# Below is generated by plot.py at 2019-09-18 02:34:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 73.86 Mbit/s

95th percentile per-packet one-way delay: 97.394 ms

Loss rate: 0.25%

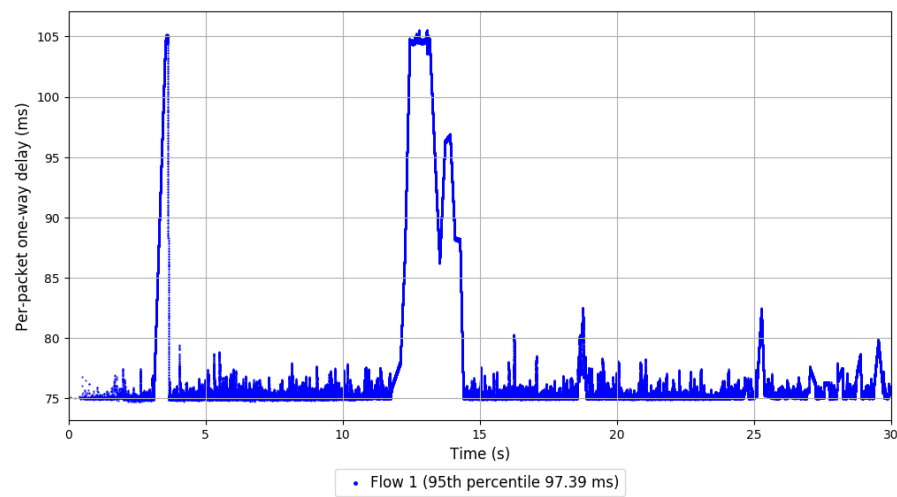
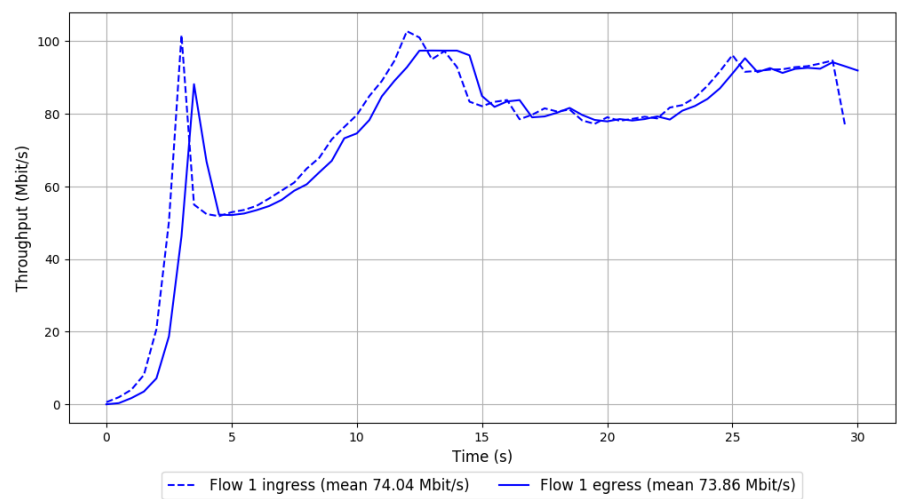
-- Flow 1:

Average throughput: 73.86 Mbit/s

95th percentile per-packet one-way delay: 97.394 ms

Loss rate: 0.25%

Run 3: Report of PCC-Vivace — Data Link

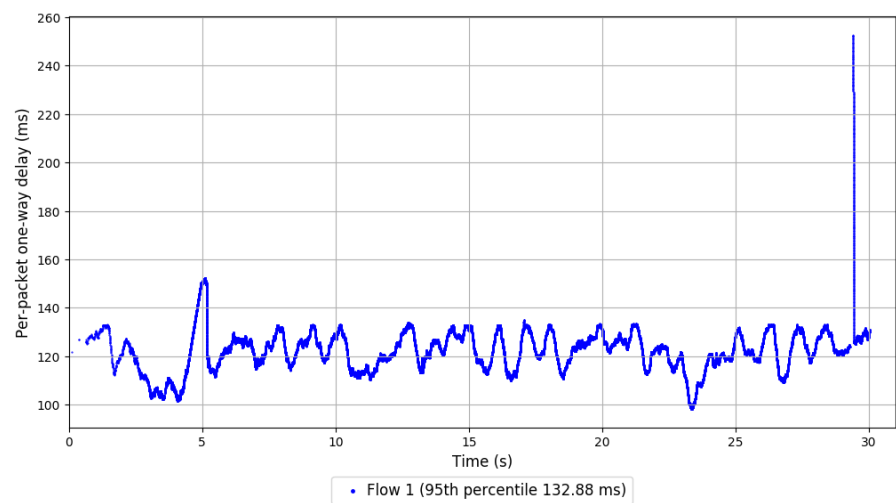
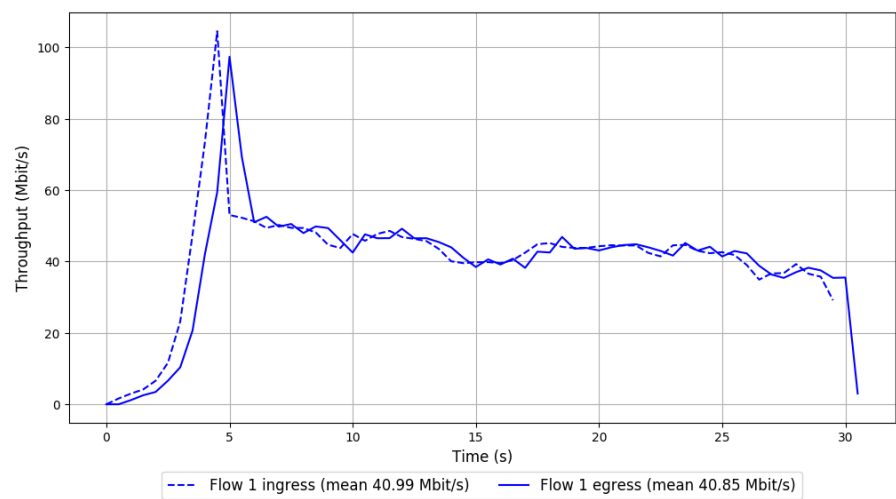


Run 4: Statistics of PCC-Vivace

Start at: 2019-09-18 01:51:46  
End at: 2019-09-18 01:52:16  
Local clock offset: 1.72 ms  
Remote clock offset: -50.221 ms

# Below is generated by plot.py at 2019-09-18 02:34:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 40.85 Mbit/s  
95th percentile per-packet one-way delay: 132.884 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 40.85 Mbit/s  
95th percentile per-packet one-way delay: 132.884 ms  
Loss rate: 0.32%

Run 4: Report of PCC-Vivace — Data Link

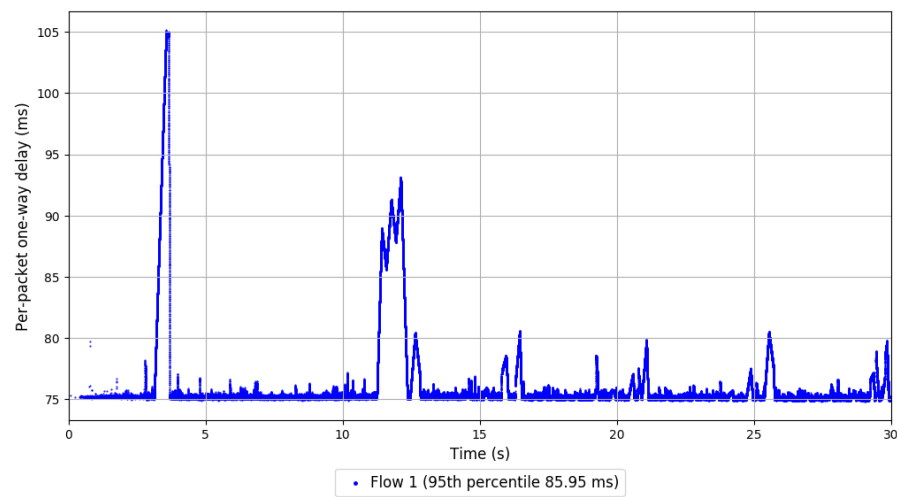
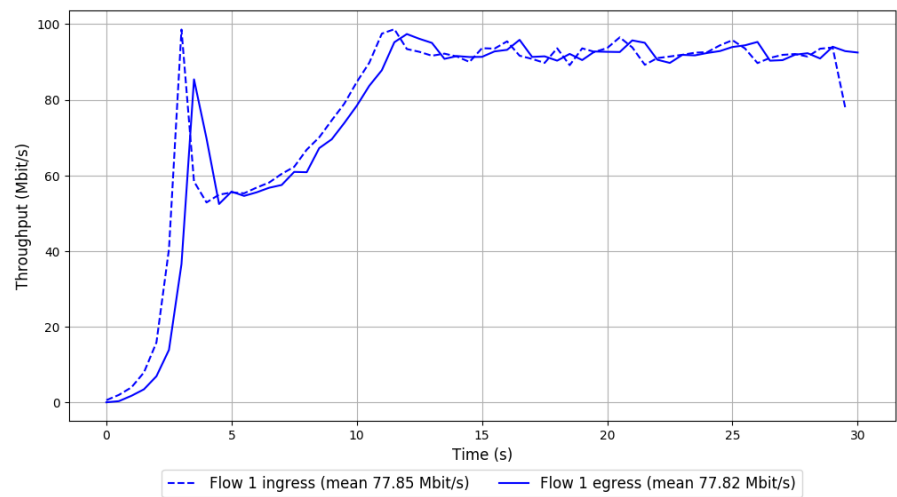


Run 5: Statistics of PCC-Vivace

Start at: 2019-09-18 02:20:10  
End at: 2019-09-18 02:20:40  
Local clock offset: -20.842 ms  
Remote clock offset: -10.147 ms

# Below is generated by plot.py at 2019-09-18 02:34:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 77.82 Mbit/s  
95th percentile per-packet one-way delay: 85.947 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 77.82 Mbit/s  
95th percentile per-packet one-way delay: 85.947 ms  
Loss rate: 0.04%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-09-18 00:03:26

End at: 2019-09-18 00:03:56

Local clock offset: 9.511 ms

Remote clock offset: -9.616 ms

# Below is generated by plot.py at 2019-09-18 02:34:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 71.717 ms

Loss rate: 0.02%

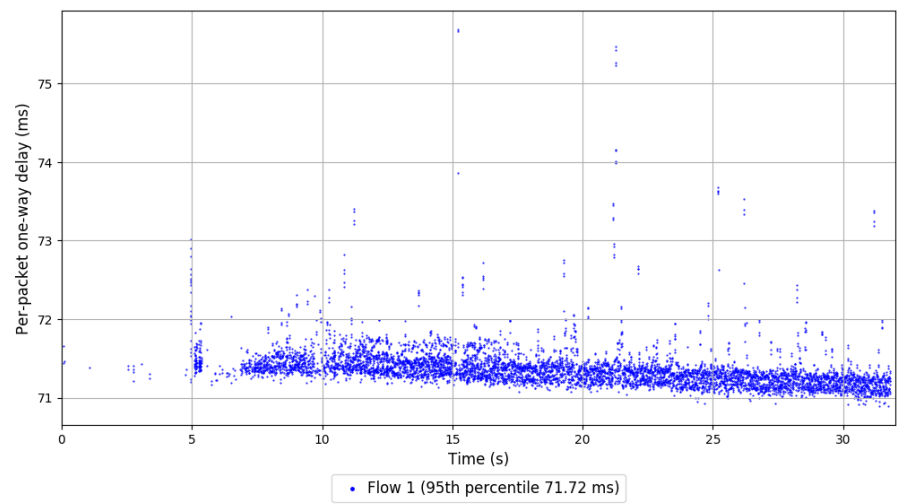
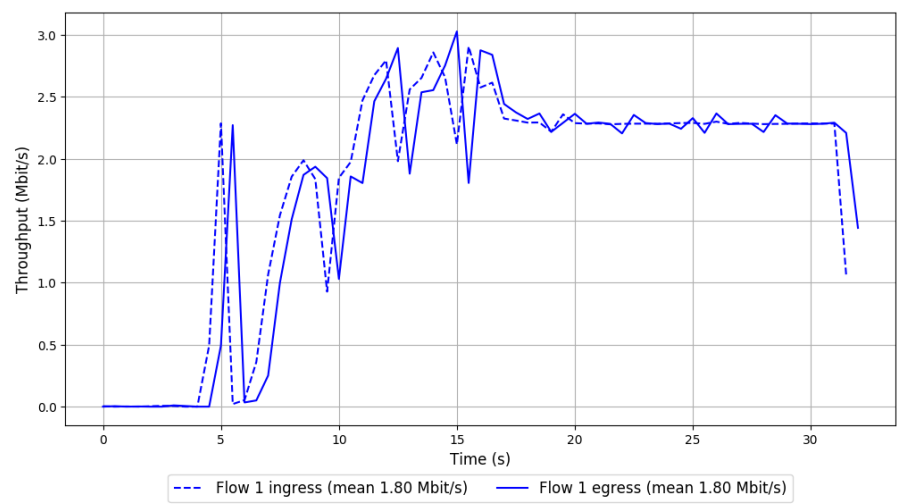
-- Flow 1:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 71.717 ms

Loss rate: 0.02%

Run 1: Report of WebRTC media — Data Link



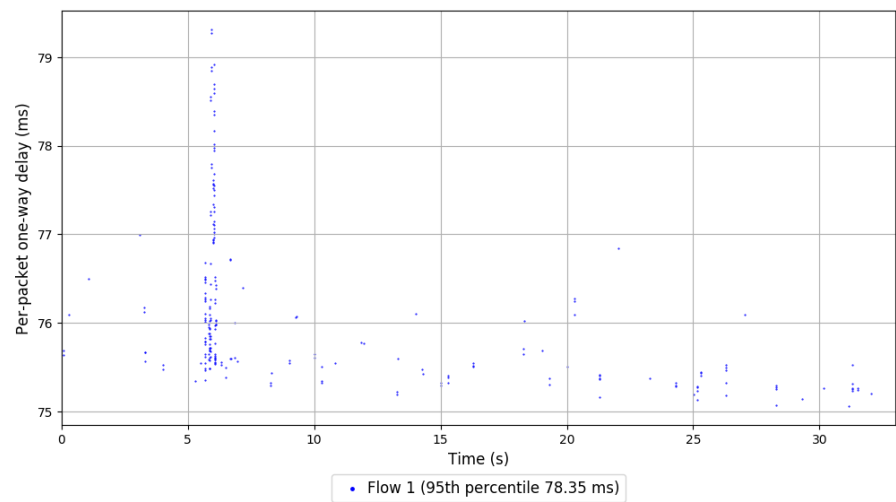
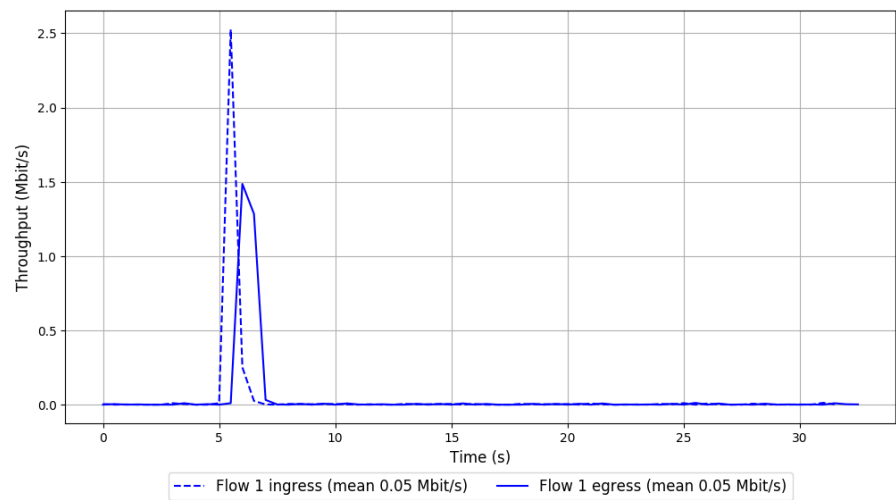


Run 2: Statistics of WebRTC media

Start at: 2019-09-18 00:31:44  
End at: 2019-09-18 00:32:14  
Local clock offset: 0.354 ms  
Remote clock offset: -8.007 ms

# Below is generated by plot.py at 2019-09-18 02:34:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 78.350 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 78.350 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

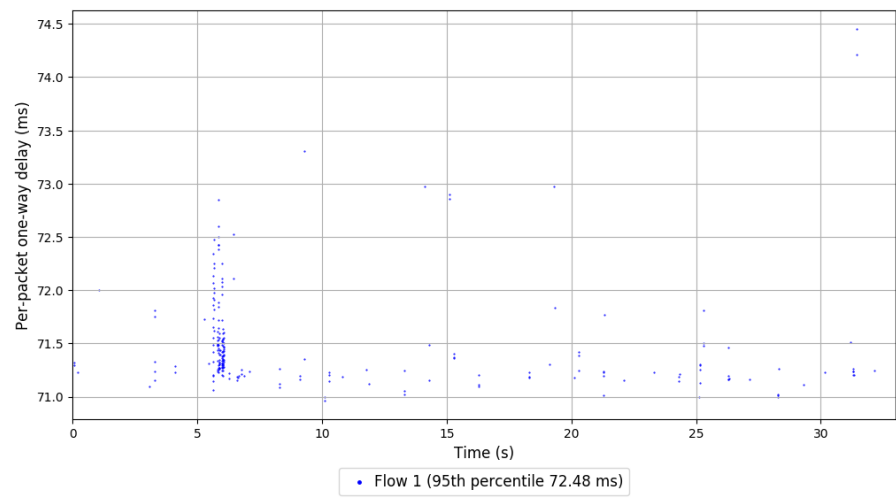
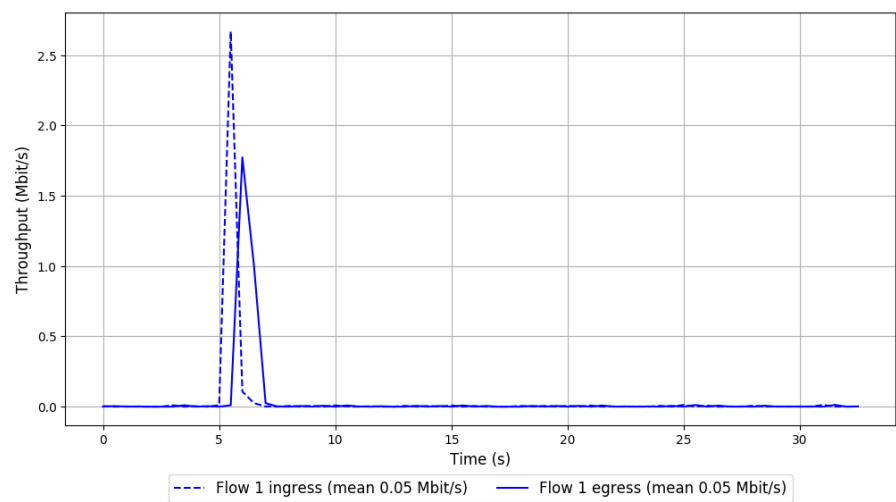


Run 3: Statistics of WebRTC media

Start at: 2019-09-18 00:59:57  
End at: 2019-09-18 01:00:27  
Local clock offset: -7.772 ms  
Remote clock offset: -13.311 ms

# Below is generated by plot.py at 2019-09-18 02:34:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 72.476 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 72.476 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-09-18 01:28:04

End at: 2019-09-18 01:28:34

Local clock offset: 1.44 ms

Remote clock offset: -9.11 ms

# Below is generated by plot.py at 2019-09-18 02:34:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 77.754 ms

Loss rate: 0.00%

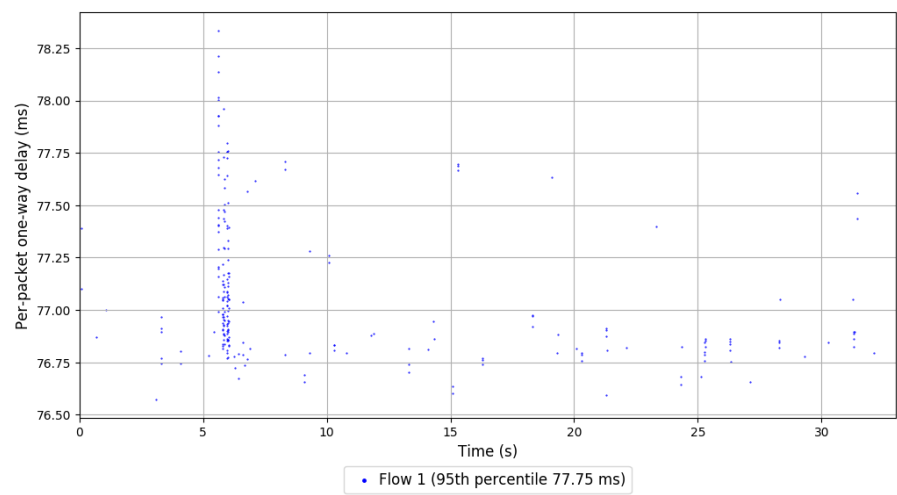
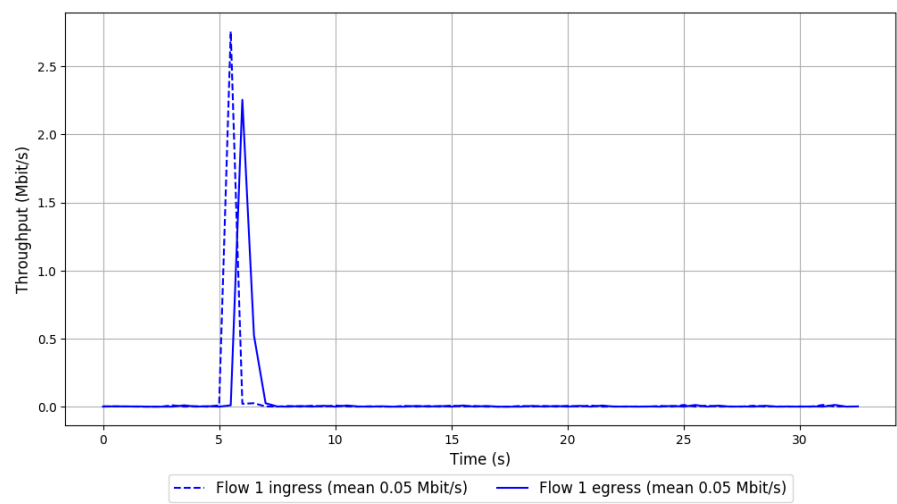
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 77.754 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-09-18 01:56:34  
End at: 2019-09-18 01:57:04  
Local clock offset: 1.773 ms  
Remote clock offset: -50.208 ms

# Below is generated by plot.py at 2019-09-18 02:34:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 133.274 ms  
Loss rate: 0.80%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 133.274 ms  
Loss rate: 0.80%

Run 5: Report of WebRTC media — Data Link

