

## Pantheon Report

Generated at 2019-11-24 07:14:03 (UTC).

Data path: AWS California 2 on **ens5** (*local*) → Mexico on **em1** (*remote*).

Repeated the test of 24 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

### System info:

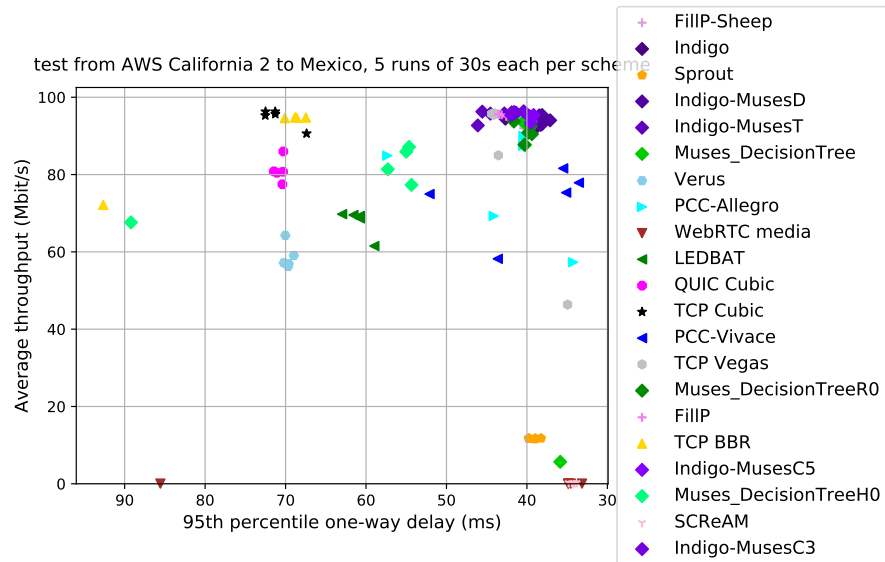
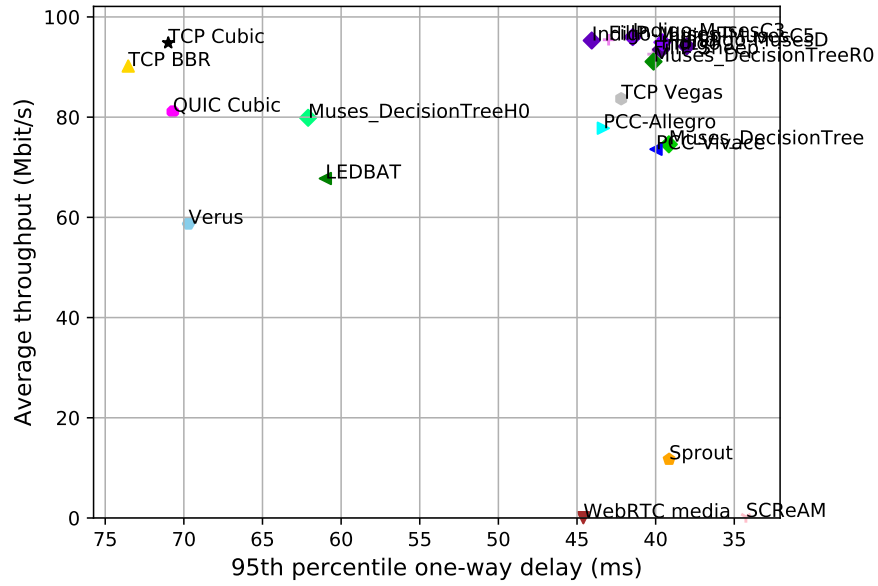
```
Linux 4.15.0-1051-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 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 California 2 to Mexico, 5 runs of 30s each per scheme  
(mean of all runs by scheme)



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	90.20	73.54	6.26
Copa	0	N/A	N/A	N/A
TCP Cubic	5	94.82	70.99	0.71
FillP	5	95.45	42.99	0.65
FillP-Sheep	5	92.56	40.16	0.52
Indigo	5	93.49	39.66	0.00
Indigo-MusesC3	5	95.98	41.46	0.01
Indigo-MusesC5	5	94.94	39.57	0.06
Indigo-MusesD	5	94.13	38.02	0.04
Indigo-MusesT	5	95.29	44.06	0.46
LEDBAT	5	67.75	61.00	0.05
Muses_DecisionTree	5	74.58	39.16	0.03
Muses_DecisionTreeH0	5	79.87	62.10	5.11
Muses_DecisionTreeR0	5	91.08	40.13	0.03
PCC-Allegro	5	77.79	43.33	0.70
PCC-Expr	0	N/A	N/A	N/A
QUIC Cubic	5	81.10	70.70	1.78
SCReAM	5	0.21	34.26	0.00
Sprout	5	11.72	39.14	0.00
TaoVA-100x	0	N/A	N/A	N/A
TCP Vegas	5	83.67	42.19	0.48
Verus	5	58.73	69.71	24.62
PCC-Vivace	5	73.59	39.98	0.11
WebRTC media	5	0.05	44.60	3.52



Run 1: Statistics of TCP BBR

Start at: 2019-11-23 22:20:31

End at: 2019-11-23 22:21:01

Local clock offset: -8.84 ms

Remote clock offset: 6.288 ms

# Below is generated by plot.py at 2019-11-24 07:03:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.74 Mbit/s

95th percentile per-packet one-way delay: 67.475 ms

Loss rate: 4.48%

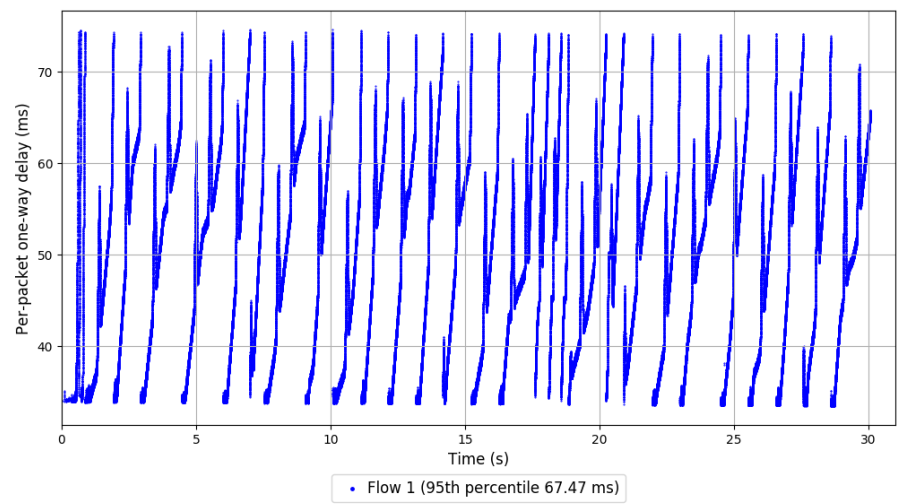
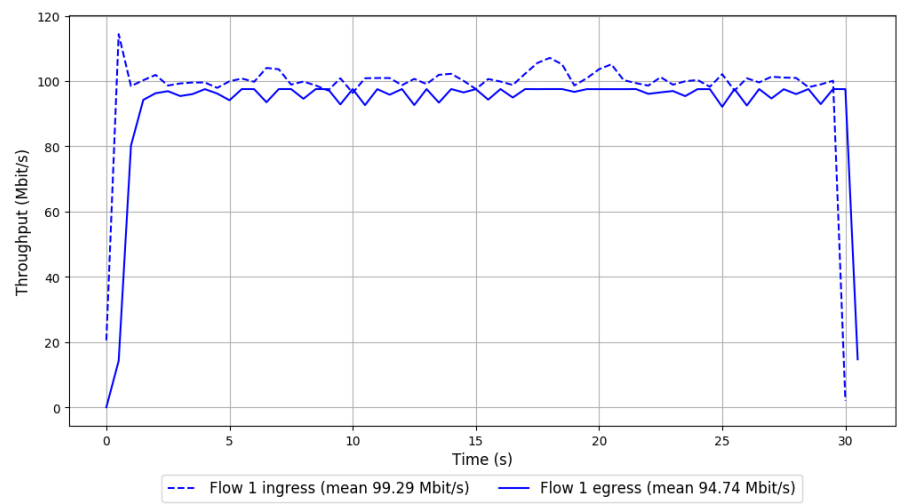
-- Flow 1:

Average throughput: 94.74 Mbit/s

95th percentile per-packet one-way delay: 67.475 ms

Loss rate: 4.48%

Run 1: Report of TCP BBR — Data Link

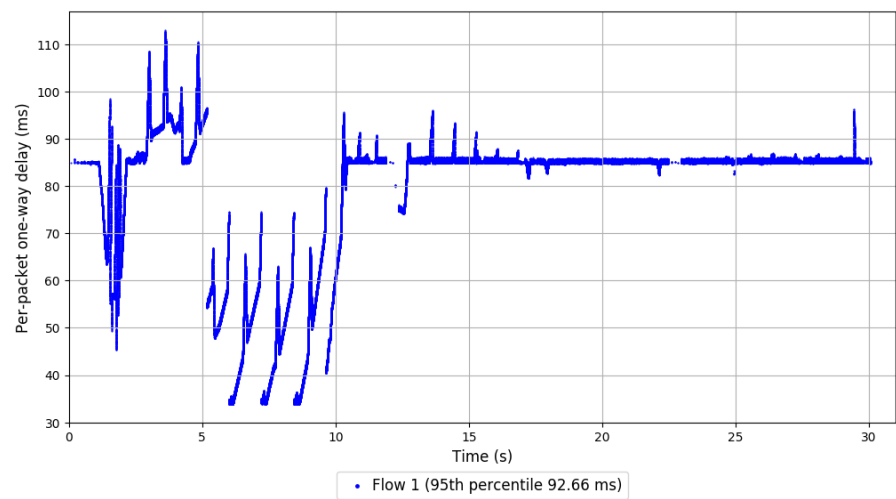
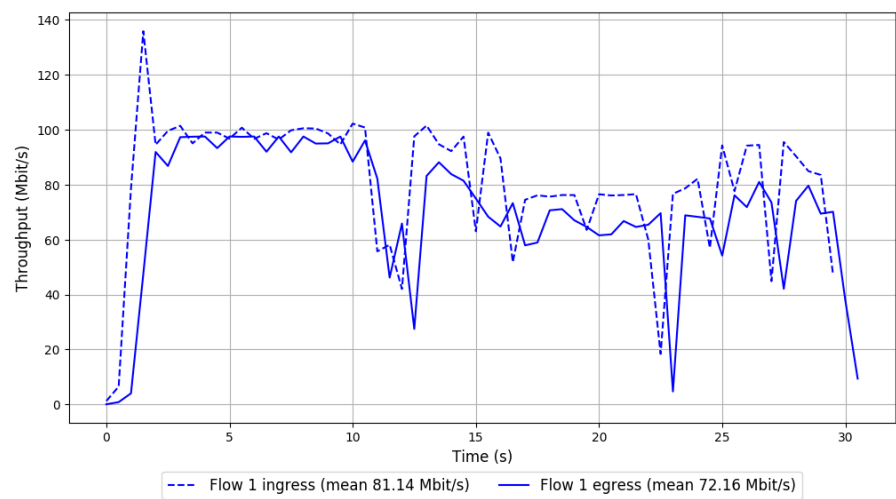


Run 2: Statistics of TCP BBR

Start at: 2019-11-23 23:24:15  
End at: 2019-11-23 23:24:45  
Local clock offset: -20.245 ms  
Remote clock offset: 6.544 ms

# Below is generated by plot.py at 2019-11-24 07:03:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 72.16 Mbit/s  
95th percentile per-packet one-way delay: 92.658 ms  
Loss rate: 11.07%  
-- Flow 1:  
Average throughput: 72.16 Mbit/s  
95th percentile per-packet one-way delay: 92.658 ms  
Loss rate: 11.07%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

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

End at: 2019-11-24 00:14:19

Local clock offset: -8.516 ms

Remote clock offset: 5.818 ms

# Below is generated by plot.py at 2019-11-24 07:03:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.81 Mbit/s

95th percentile per-packet one-way delay: 68.815 ms

Loss rate: 4.17%

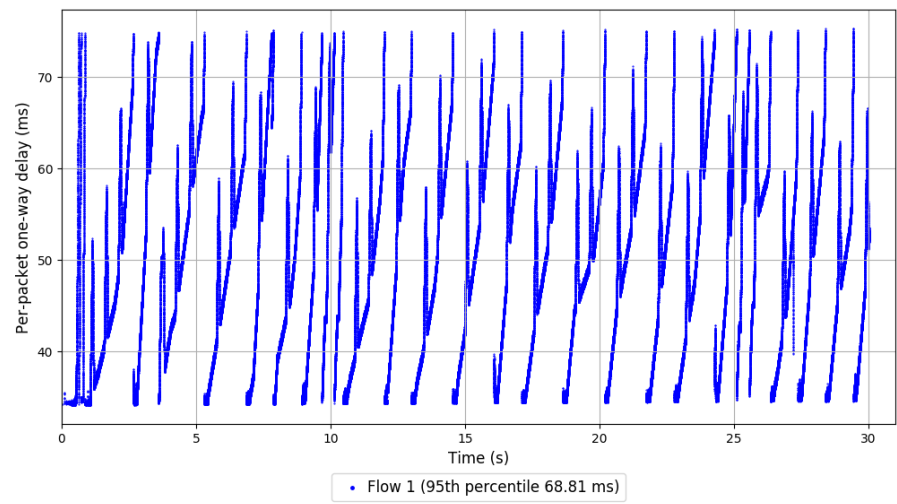
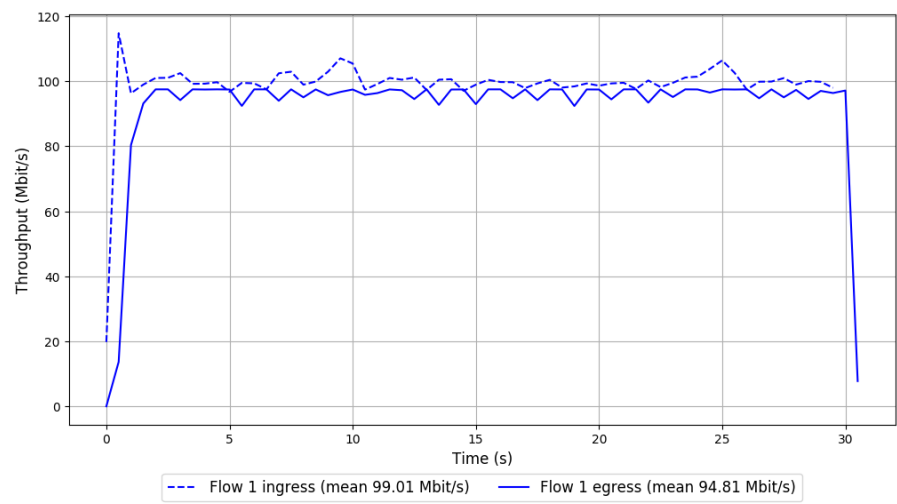
-- Flow 1:

Average throughput: 94.81 Mbit/s

95th percentile per-packet one-way delay: 68.815 ms

Loss rate: 4.17%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-11-24 01:22:50

End at: 2019-11-24 01:23:20

Local clock offset: 0.988 ms

Remote clock offset: 5.942 ms

# Below is generated by plot.py at 2019-11-24 07:03:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.70 Mbit/s

95th percentile per-packet one-way delay: 68.636 ms

Loss rate: 4.97%

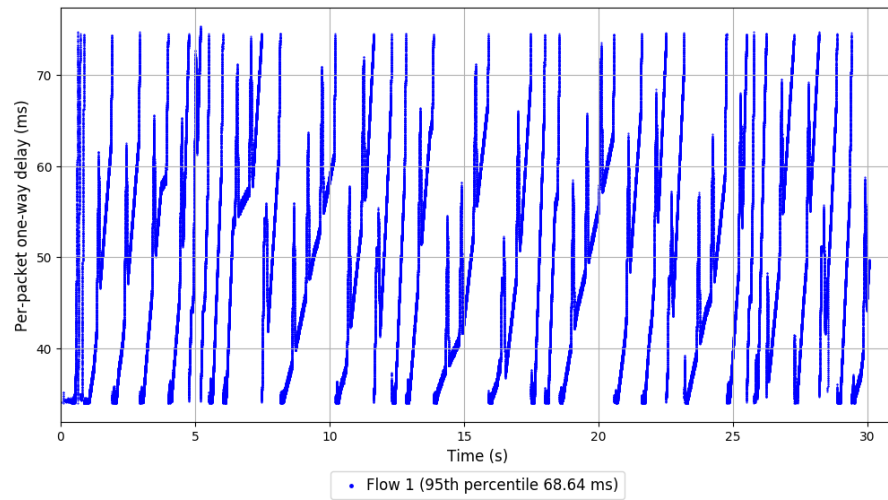
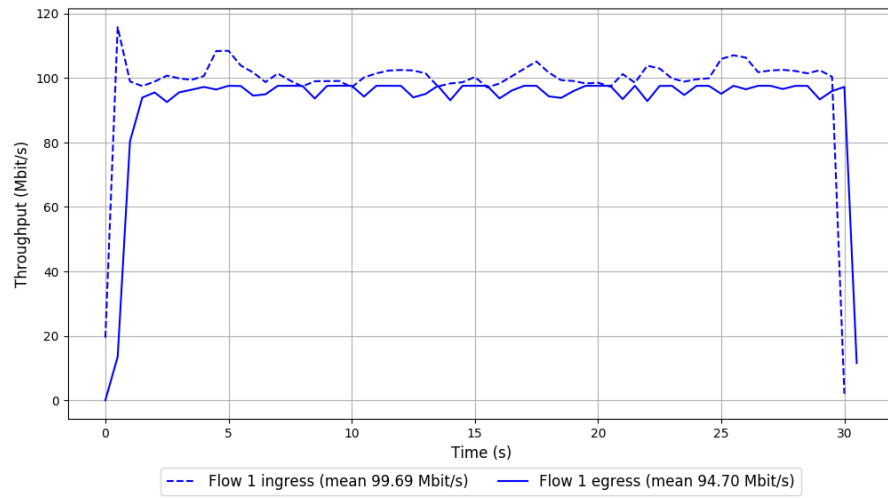
-- Flow 1:

Average throughput: 94.70 Mbit/s

95th percentile per-packet one-way delay: 68.636 ms

Loss rate: 4.97%

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





Run 5: Statistics of TCP BBR

Start at: 2019-11-24 05:09:50

End at: 2019-11-24 05:10:20

Local clock offset: 2.94 ms

Remote clock offset: 4.19 ms

# Below is generated by plot.py at 2019-11-24 07:03:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.60 Mbit/s

95th percentile per-packet one-way delay: 70.097 ms

Loss rate: 6.61%

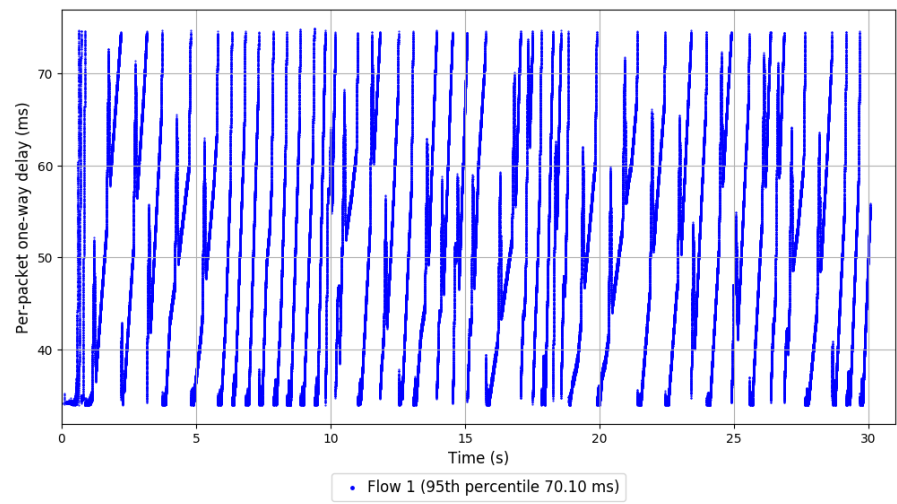
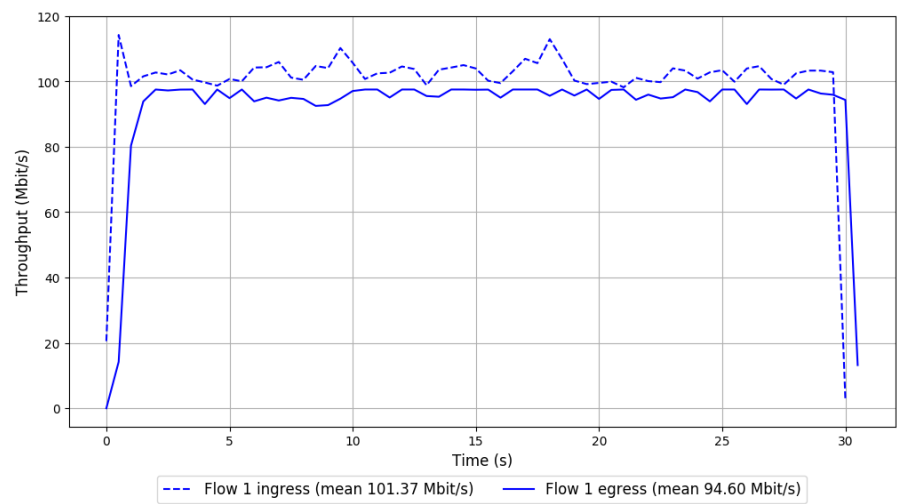
-- Flow 1:

Average throughput: 94.60 Mbit/s

95th percentile per-packet one-way delay: 70.097 ms

Loss rate: 6.61%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

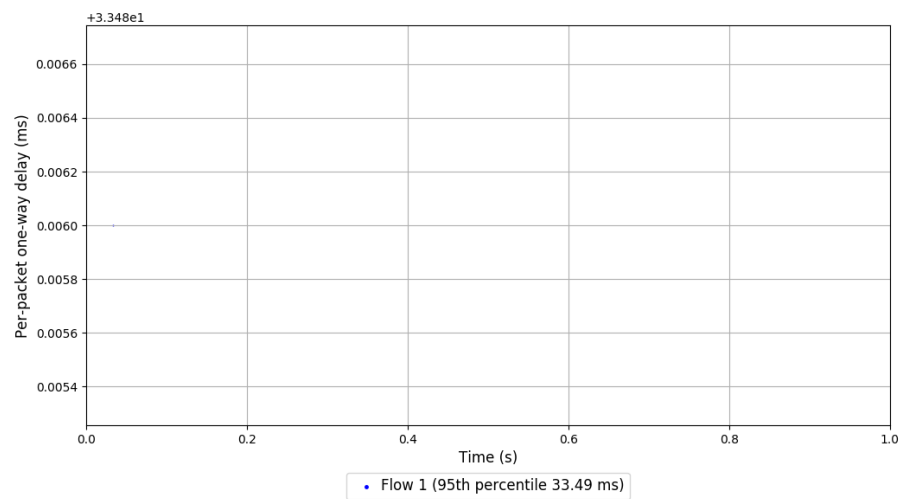
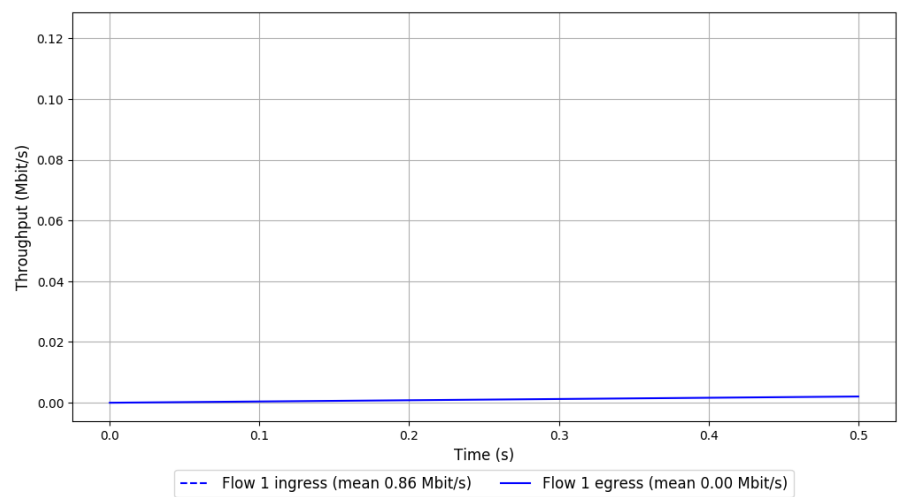
Start at: 2019-11-23 22:57:41

End at: 2019-11-23 22:58:11

Local clock offset: -32.149 ms

Remote clock offset: 6.111 ms

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

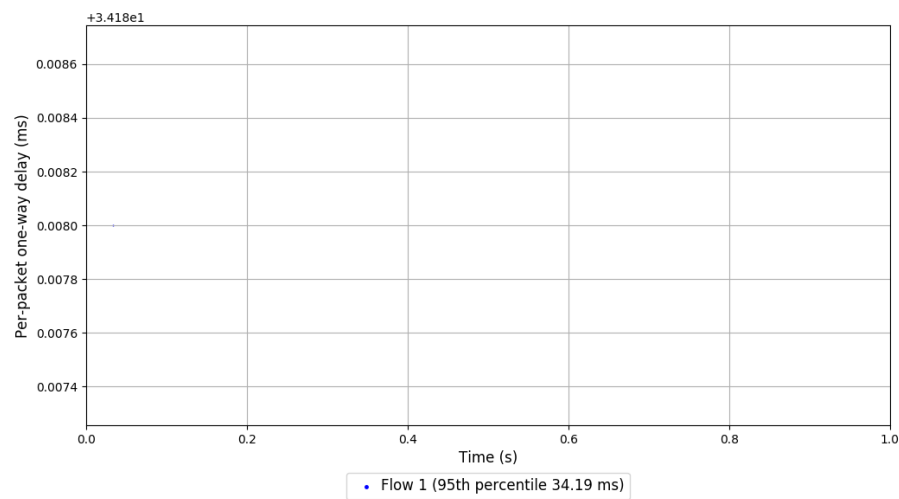
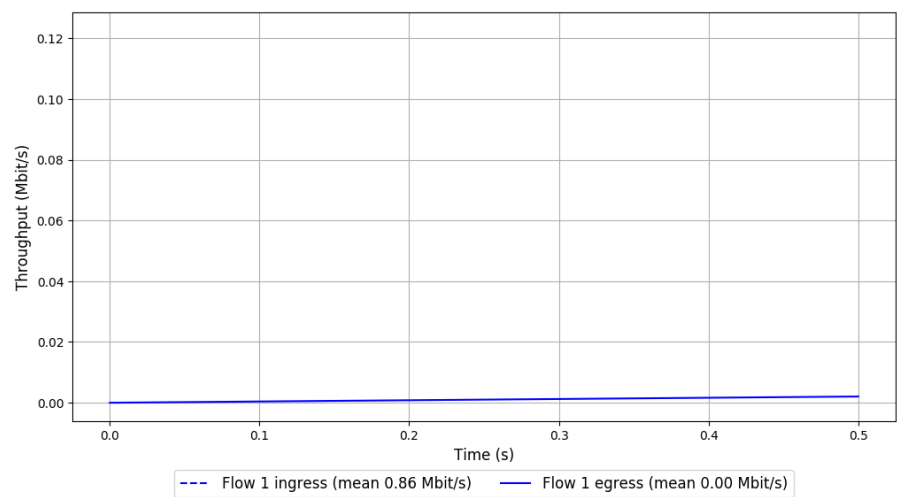
Start at: 2019-11-23 23:51:17

End at: 2019-11-23 23:51:47

Local clock offset: -11.155 ms

Remote clock offset: 6.635 ms

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

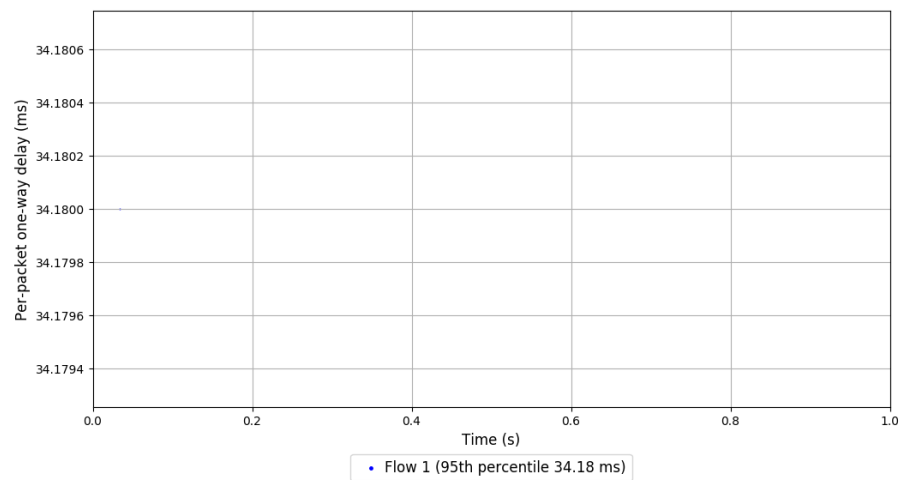
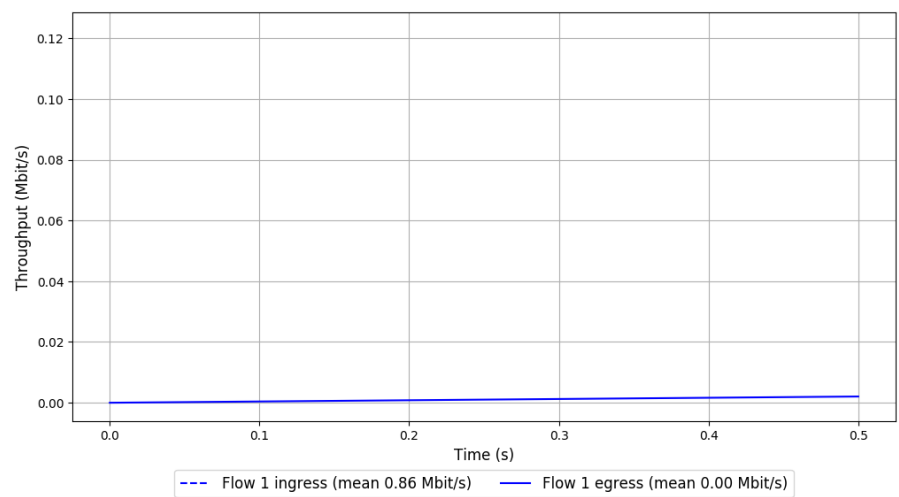
Start at: 2019-11-24 00:54:14

End at: 2019-11-24 00:54:44

Local clock offset: -0.701 ms

Remote clock offset: 6.036 ms

Run 3: Report of Copa — Data Link





Run 4: Statistics of Copa

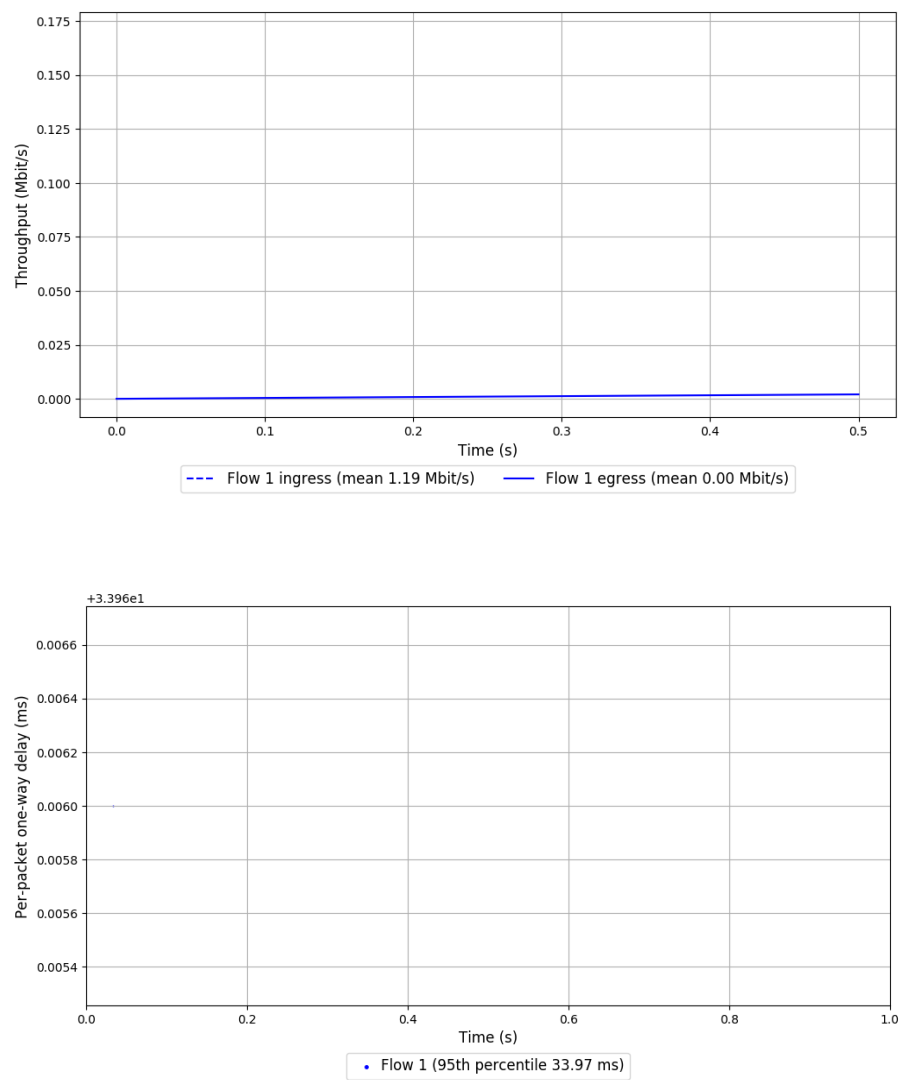
Start at: 2019-11-24 02:59:59

End at: 2019-11-24 03:00:29

Local clock offset: 1.778 ms

Remote clock offset: 4.024 ms

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

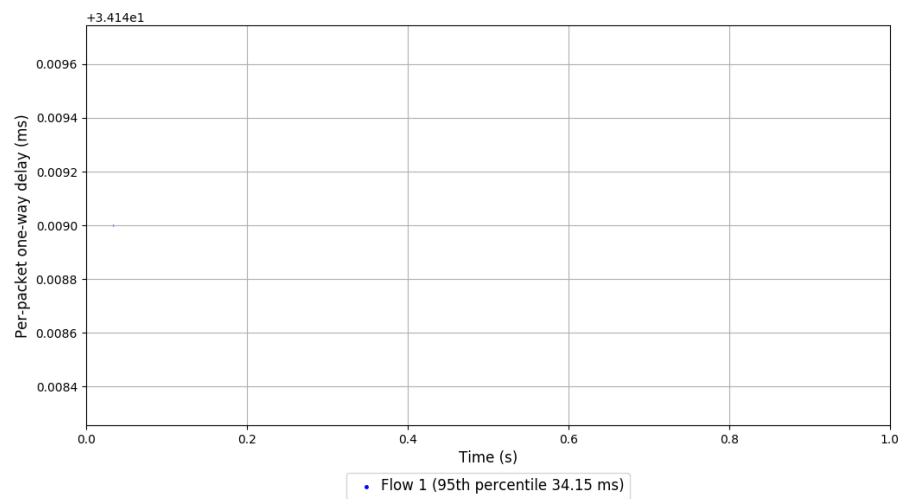
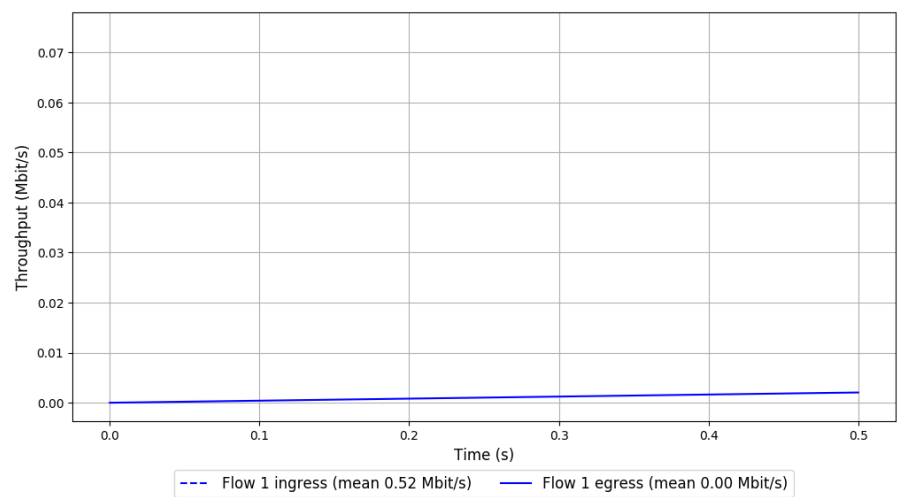
Start at: 2019-11-24 06:29:25

End at: 2019-11-24 06:29:55

Local clock offset: 2.467 ms

Remote clock offset: 3.988 ms

Run 5: Report of Copa — Data Link

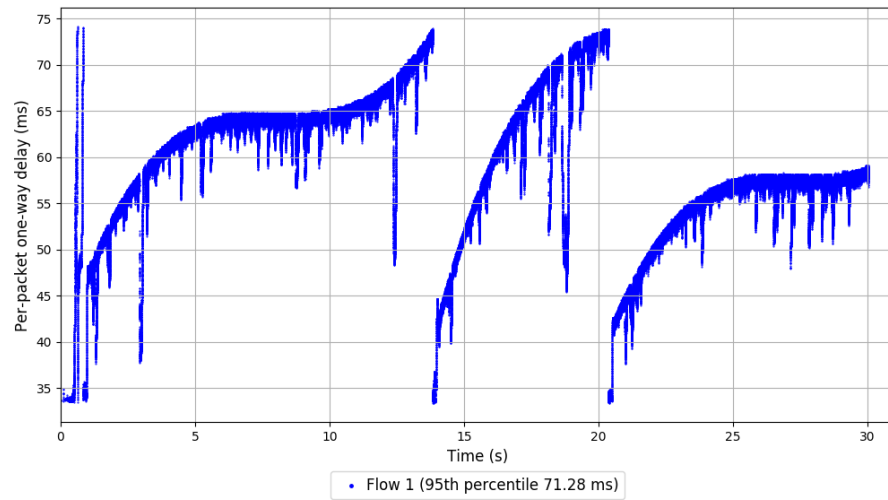
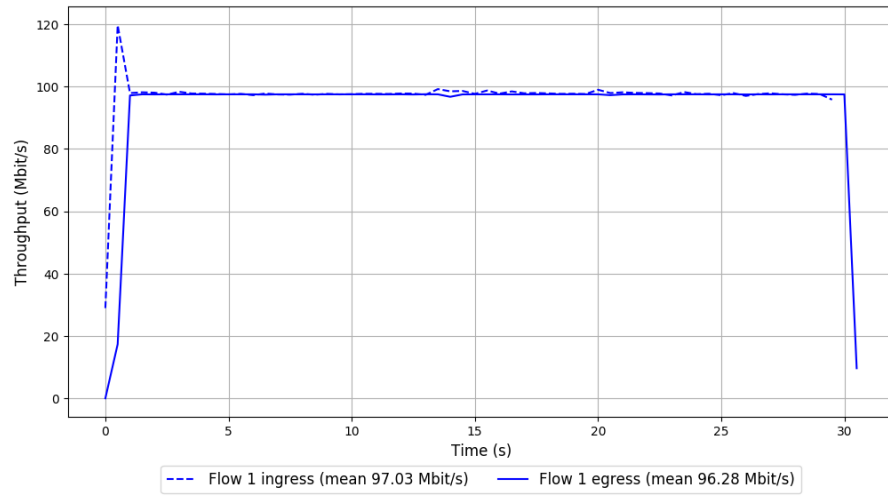


Run 1: Statistics of TCP Cubic

Start at: 2019-11-23 22:49:32  
End at: 2019-11-23 22:50:02  
Local clock offset: -23.019 ms  
Remote clock offset: 6.147 ms

# Below is generated by plot.py at 2019-11-24 07:03:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.28 Mbit/s  
95th percentile per-packet one-way delay: 71.281 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 96.28 Mbit/s  
95th percentile per-packet one-way delay: 71.281 ms  
Loss rate: 0.69%

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

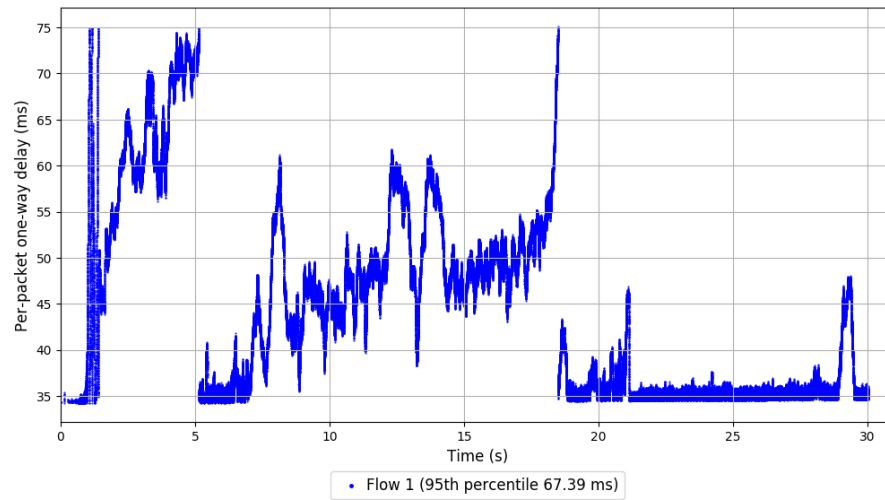
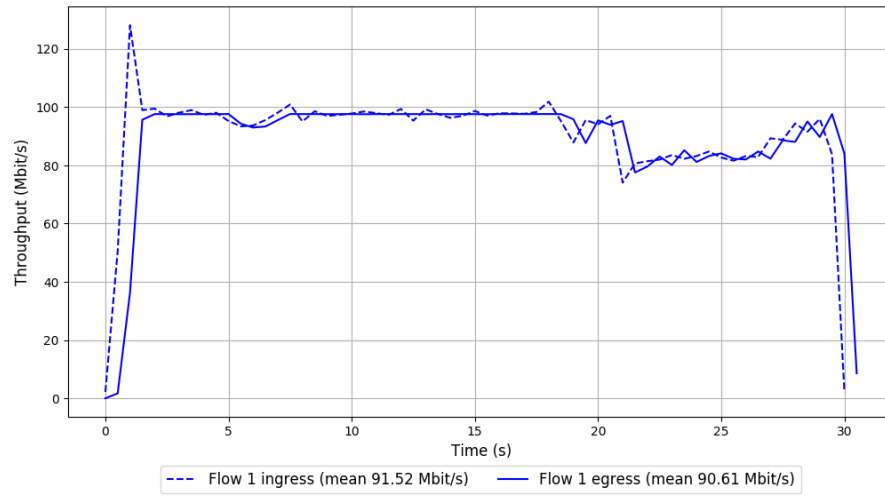


Run 2: Statistics of TCP Cubic

Start at: 2019-11-23 23:46:55  
End at: 2019-11-23 23:47:25  
Local clock offset: -13.948 ms  
Remote clock offset: 6.822 ms

# Below is generated by plot.py at 2019-11-24 07:03:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.61 Mbit/s  
95th percentile per-packet one-way delay: 67.390 ms  
Loss rate: 0.99%  
-- Flow 1:  
Average throughput: 90.61 Mbit/s  
95th percentile per-packet one-way delay: 67.390 ms  
Loss rate: 0.99%

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





Run 3: Statistics of TCP Cubic

Start at: 2019-11-24 00:48:06

End at: 2019-11-24 00:48:36

Local clock offset: -1.427 ms

Remote clock offset: 6.087 ms

# Below is generated by plot.py at 2019-11-24 07:03:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.28 Mbit/s

95th percentile per-packet one-way delay: 72.491 ms

Loss rate: 0.68%

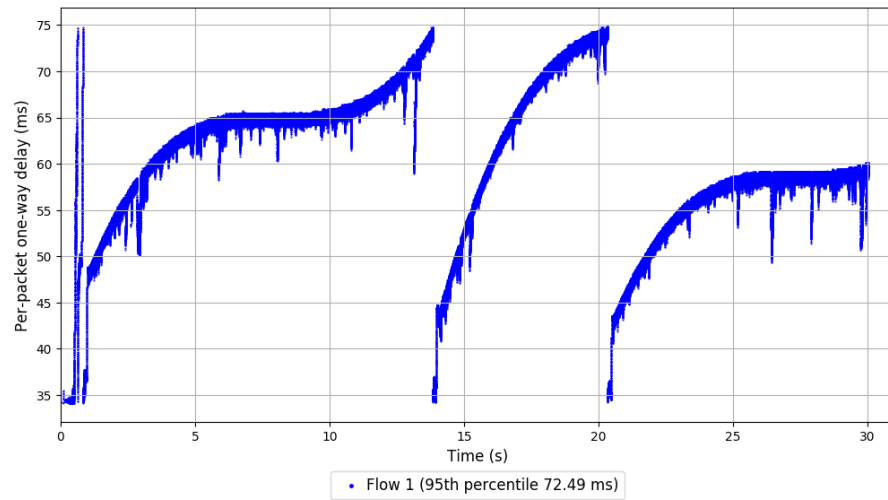
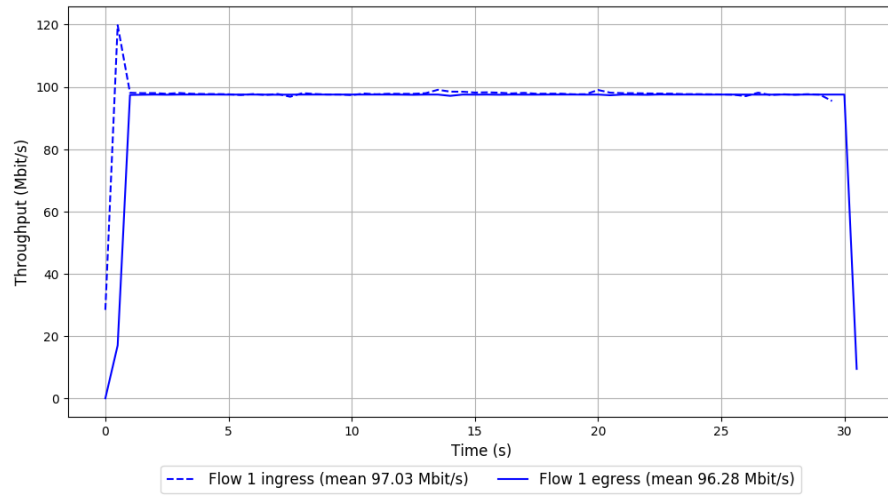
-- Flow 1:

Average throughput: 96.28 Mbit/s

95th percentile per-packet one-way delay: 72.491 ms

Loss rate: 0.68%

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



Run 4: Statistics of TCP Cubic

Start at: 2019-11-24 02:31:27

End at: 2019-11-24 02:31:57

Local clock offset: 2.584 ms

Remote clock offset: 3.186 ms

# Below is generated by plot.py at 2019-11-24 07:03:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.63 Mbit/s

95th percentile per-packet one-way delay: 71.276 ms

Loss rate: 0.67%

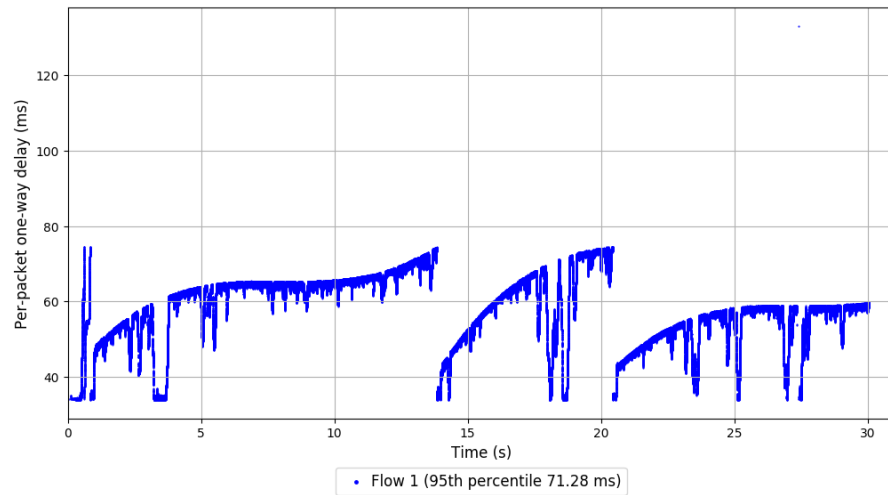
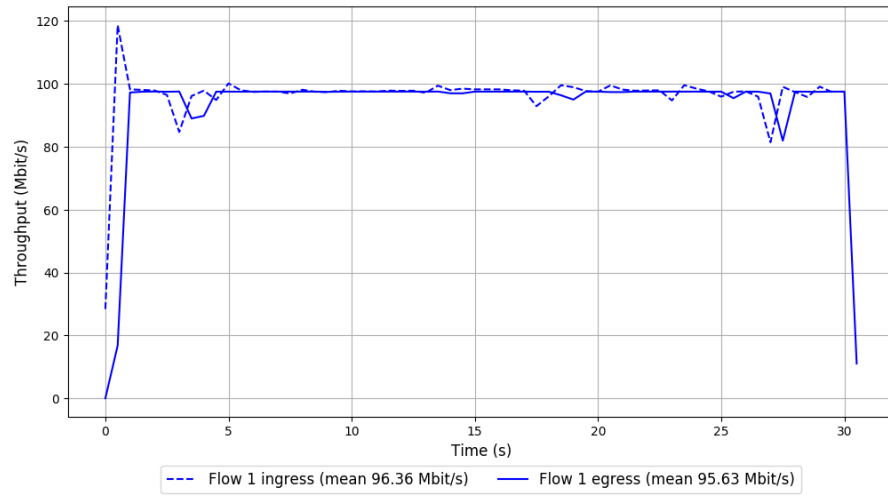
-- Flow 1:

Average throughput: 95.63 Mbit/s

95th percentile per-packet one-way delay: 71.276 ms

Loss rate: 0.67%

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



Run 5: Statistics of TCP Cubic

Start at: 2019-11-24 06:19:03

End at: 2019-11-24 06:19:33

Local clock offset: 2.576 ms

Remote clock offset: 4.087 ms

# Below is generated by plot.py at 2019-11-24 07:04:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.28 Mbit/s

95th percentile per-packet one-way delay: 72.522 ms

Loss rate: 0.54%

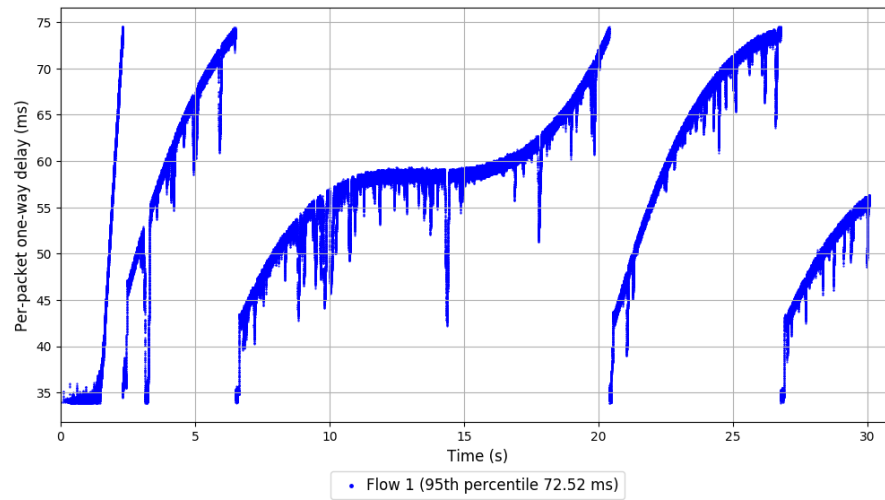
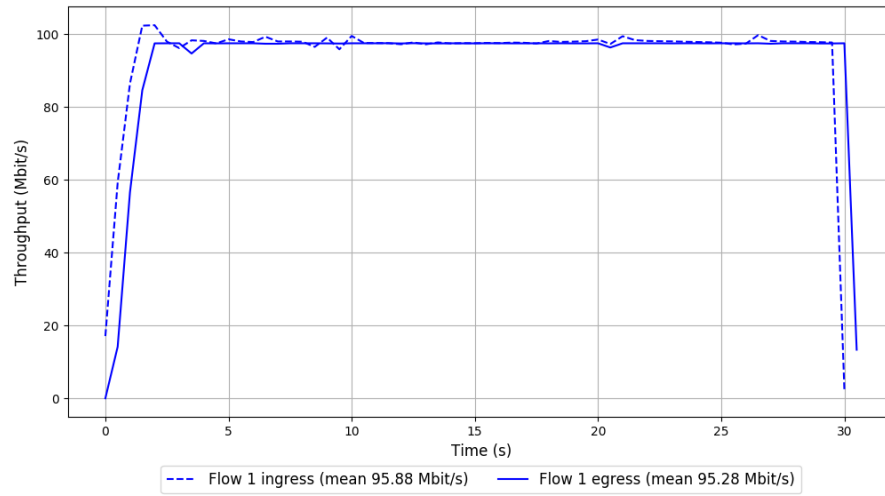
-- Flow 1:

Average throughput: 95.28 Mbit/s

95th percentile per-packet one-way delay: 72.522 ms

Loss rate: 0.54%

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



Run 1: Statistics of FillP

Start at: 2019-11-23 22:14:11

End at: 2019-11-23 22:14:41

Local clock offset: -5.751 ms

Remote clock offset: 6.085 ms

# Below is generated by plot.py at 2019-11-24 07:04:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.64 Mbit/s

95th percentile per-packet one-way delay: 43.541 ms

Loss rate: 0.64%

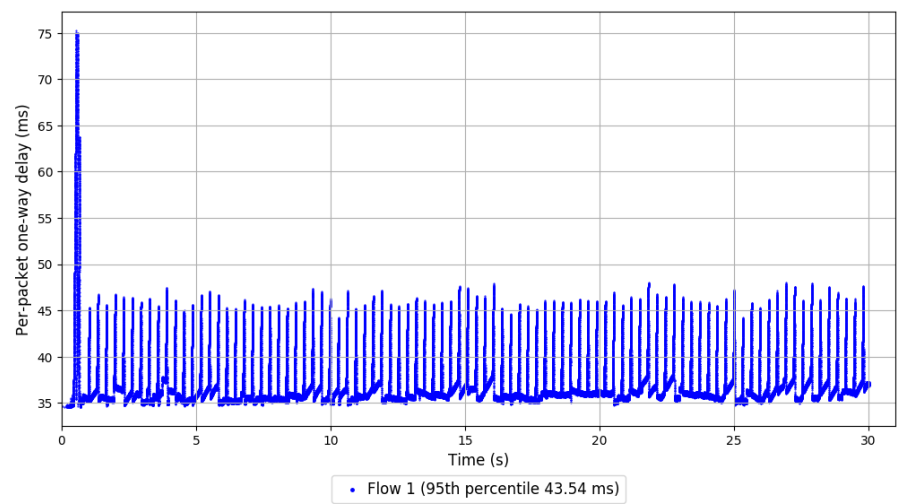
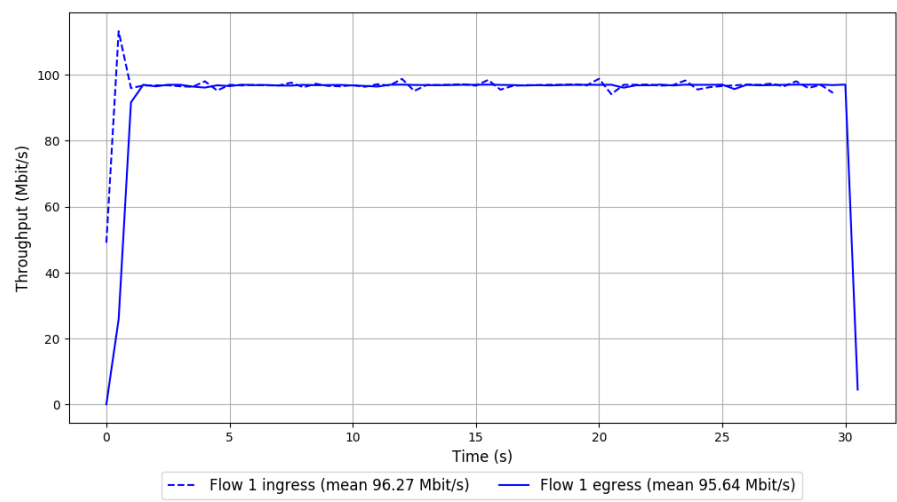
-- Flow 1:

Average throughput: 95.64 Mbit/s

95th percentile per-packet one-way delay: 43.541 ms

Loss rate: 0.64%

Run 1: Report of FillP — Data Link



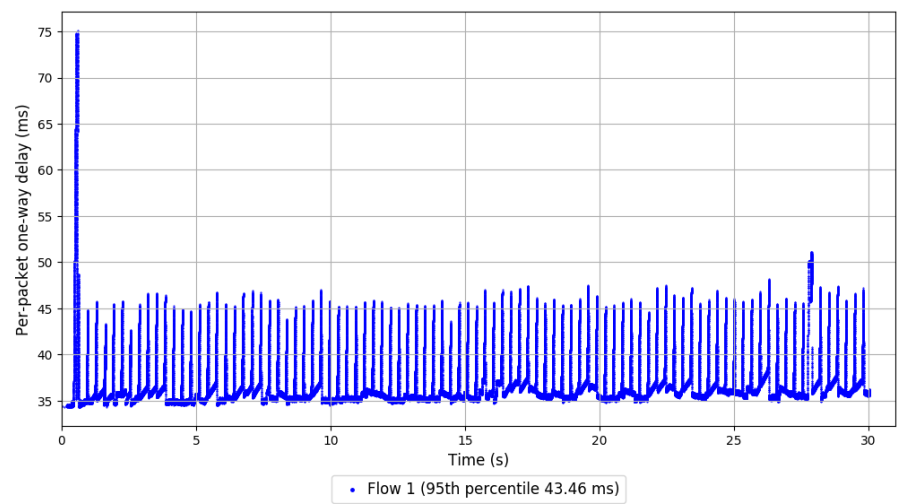
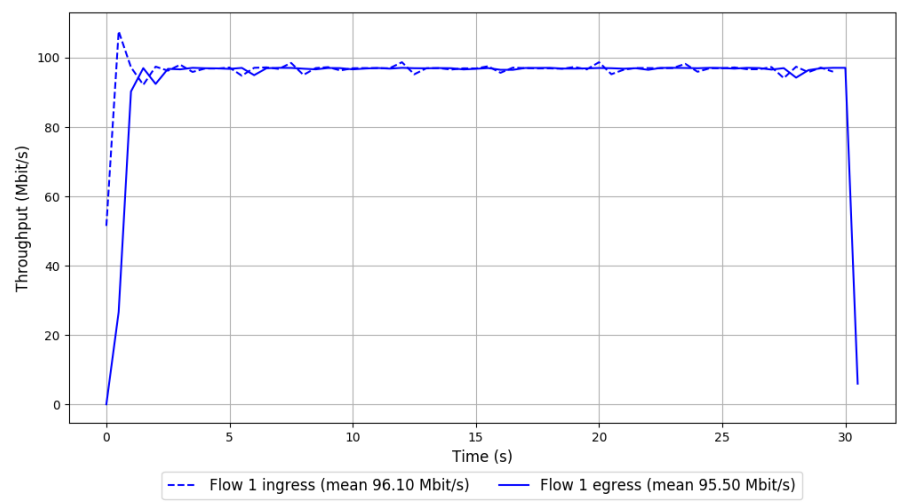


Run 2: Statistics of FillP

Start at: 2019-11-23 23:18:06  
End at: 2019-11-23 23:18:37  
Local clock offset: -24.632 ms  
Remote clock offset: 6.275 ms

# Below is generated by plot.py at 2019-11-24 07:04:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.50 Mbit/s  
95th percentile per-packet one-way delay: 43.460 ms  
Loss rate: 0.61%  
-- Flow 1:  
Average throughput: 95.50 Mbit/s  
95th percentile per-packet one-way delay: 43.460 ms  
Loss rate: 0.61%

Run 2: Report of FillP — Data Link

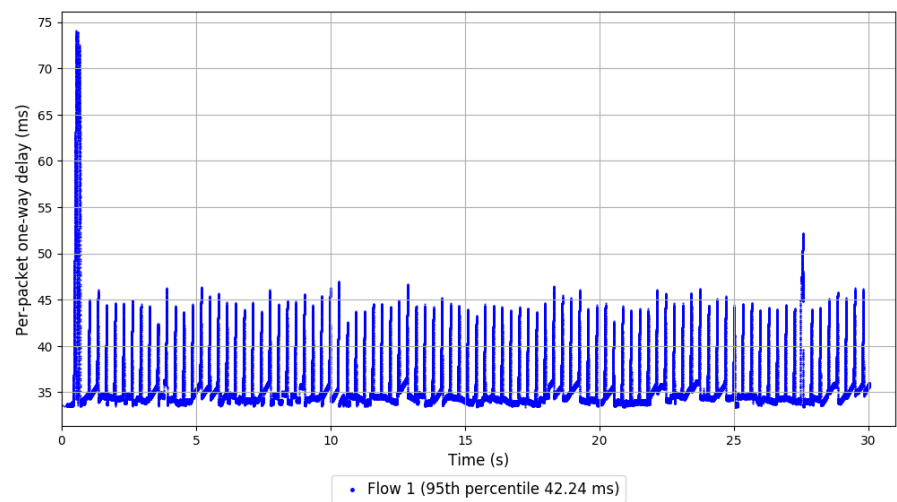
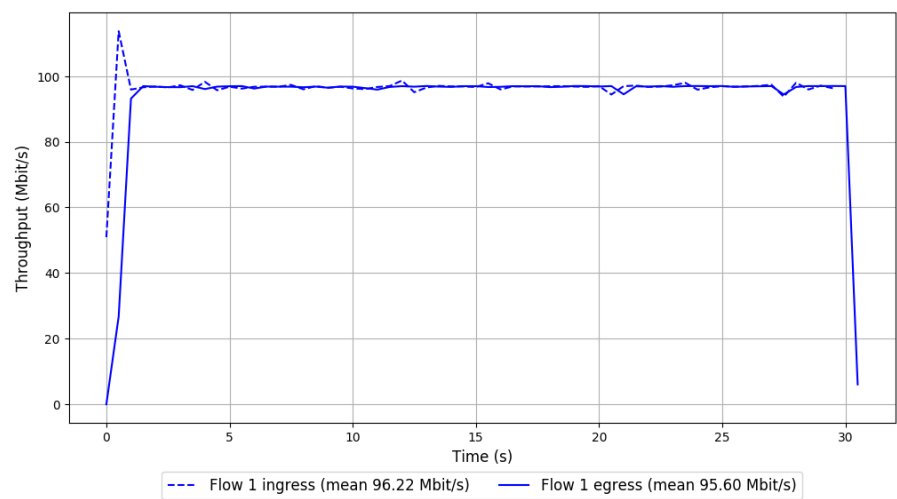


Run 3: Statistics of FillP

Start at: 2019-11-24 00:08:36  
End at: 2019-11-24 00:09:06  
Local clock offset: -13.877 ms  
Remote clock offset: 5.851 ms

# Below is generated by plot.py at 2019-11-24 07:04:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.60 Mbit/s  
95th percentile per-packet one-way delay: 42.236 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 95.60 Mbit/s  
95th percentile per-packet one-way delay: 42.236 ms  
Loss rate: 0.64%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-11-24 01:16:51

End at: 2019-11-24 01:17:21

Local clock offset: 0.451 ms

Remote clock offset: 5.886 ms

# Below is generated by plot.py at 2019-11-24 07:04:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.47 Mbit/s

95th percentile per-packet one-way delay: 43.157 ms

Loss rate: 0.69%

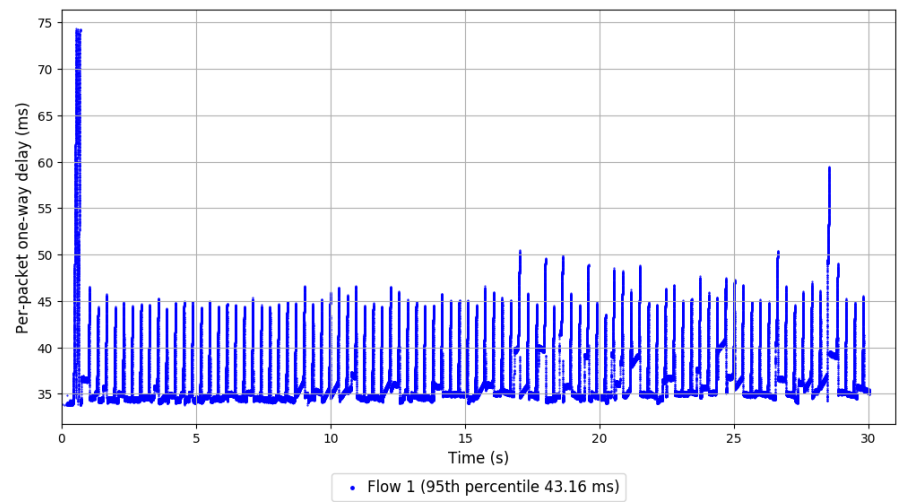
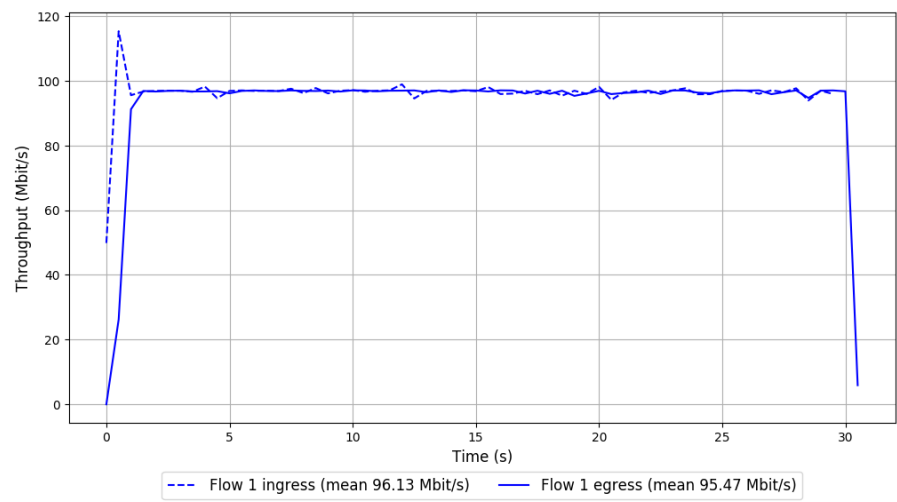
-- Flow 1:

Average throughput: 95.47 Mbit/s

95th percentile per-packet one-way delay: 43.157 ms

Loss rate: 0.69%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-11-24 04:57:32

End at: 2019-11-24 04:58:02

Local clock offset: 2.983 ms

Remote clock offset: 3.943 ms

# Below is generated by plot.py at 2019-11-24 07:04:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.05 Mbit/s

95th percentile per-packet one-way delay: 42.558 ms

Loss rate: 0.65%

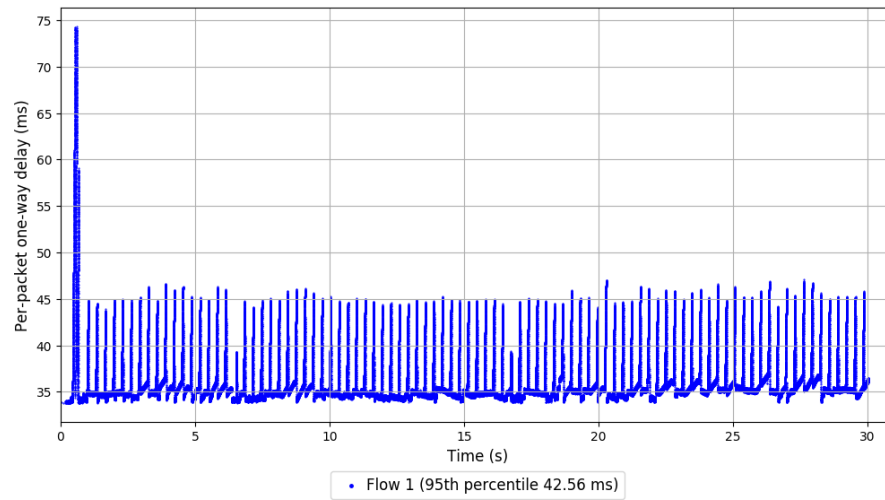
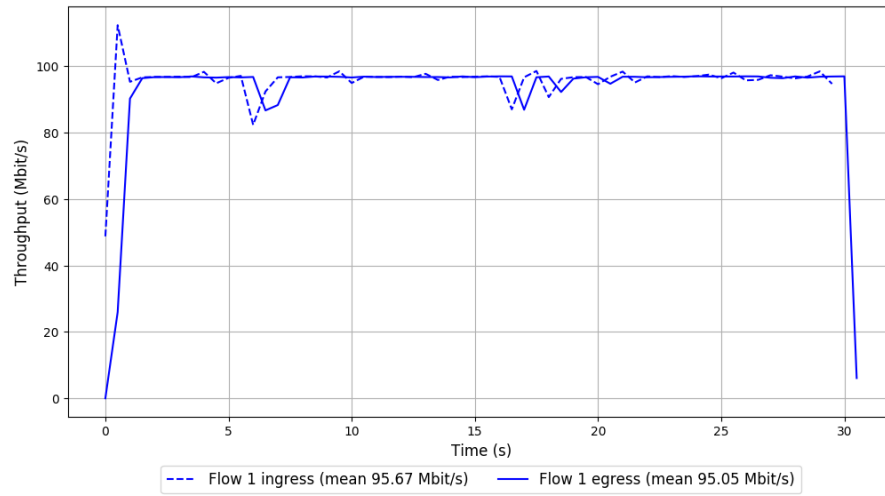
-- Flow 1:

Average throughput: 95.05 Mbit/s

95th percentile per-packet one-way delay: 42.558 ms

Loss rate: 0.65%

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





Run 1: Statistics of FillP-Sheep

Start at: 2019-11-23 22:58:48

End at: 2019-11-23 22:59:18

Local clock offset: -33.37 ms

Remote clock offset: 5.982 ms

# Below is generated by plot.py at 2019-11-24 07:04:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.90 Mbit/s

95th percentile per-packet one-way delay: 39.500 ms

Loss rate: 0.38%

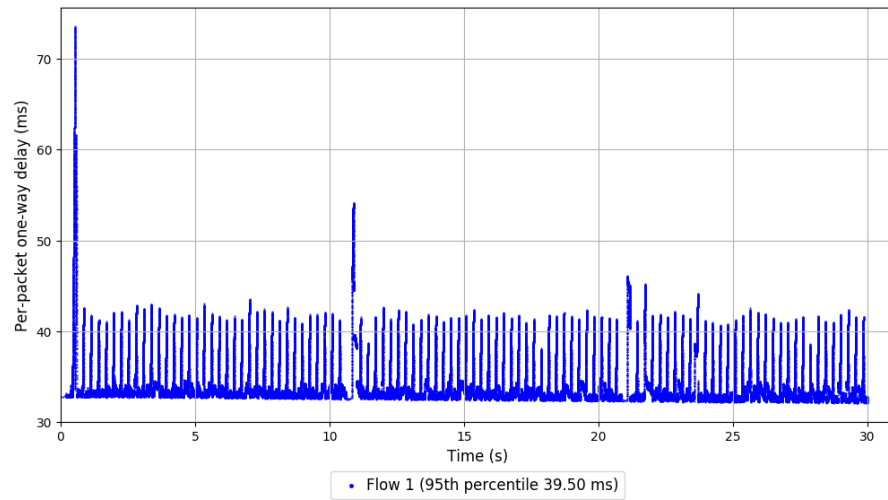
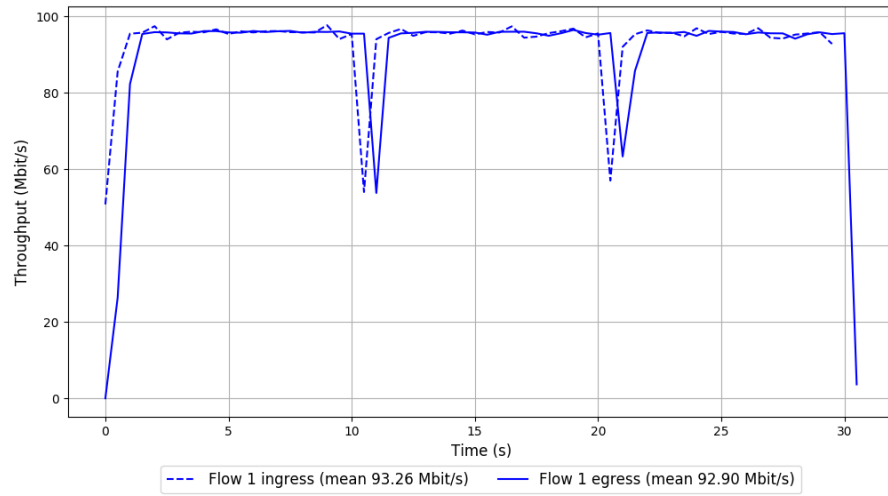
-- Flow 1:

Average throughput: 92.90 Mbit/s

95th percentile per-packet one-way delay: 39.500 ms

Loss rate: 0.38%

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

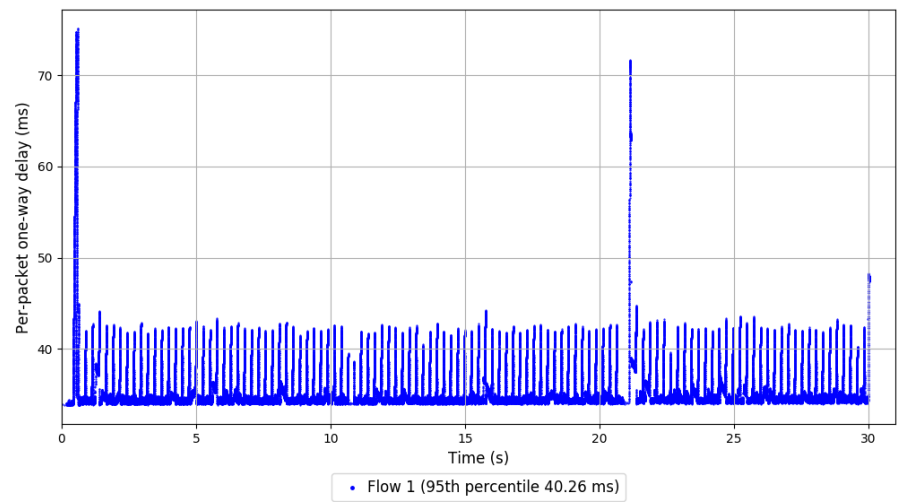
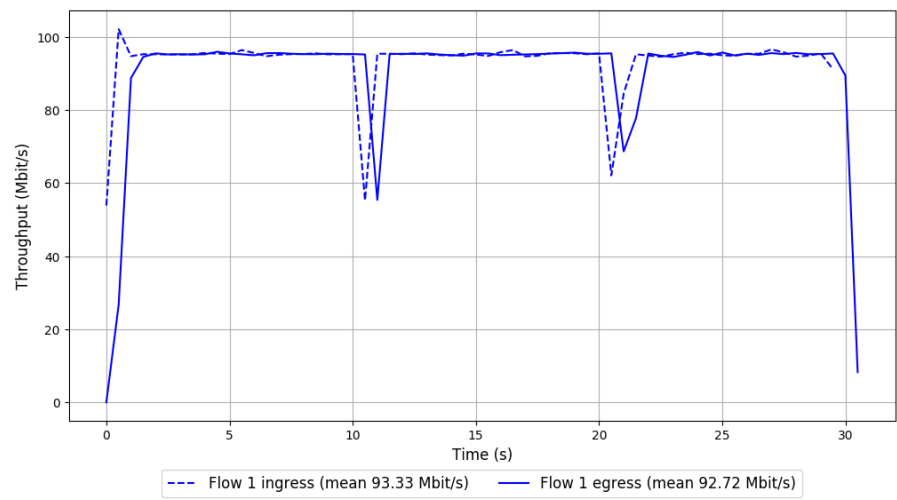


Run 2: Statistics of FillP-Sheep

Start at: 2019-11-23 23:52:24  
End at: 2019-11-23 23:52:54  
Local clock offset: -10.857 ms  
Remote clock offset: 6.484 ms

# Below is generated by plot.py at 2019-11-24 07:05:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.72 Mbit/s  
95th percentile per-packet one-way delay: 40.259 ms  
Loss rate: 0.61%  
-- Flow 1:  
Average throughput: 92.72 Mbit/s  
95th percentile per-packet one-way delay: 40.259 ms  
Loss rate: 0.61%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-11-24 00:55:21

End at: 2019-11-24 00:55:51

Local clock offset: -0.701 ms

Remote clock offset: 5.977 ms

# Below is generated by plot.py at 2019-11-24 07:05:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.96 Mbit/s

95th percentile per-packet one-way delay: 40.399 ms

Loss rate: 0.41%

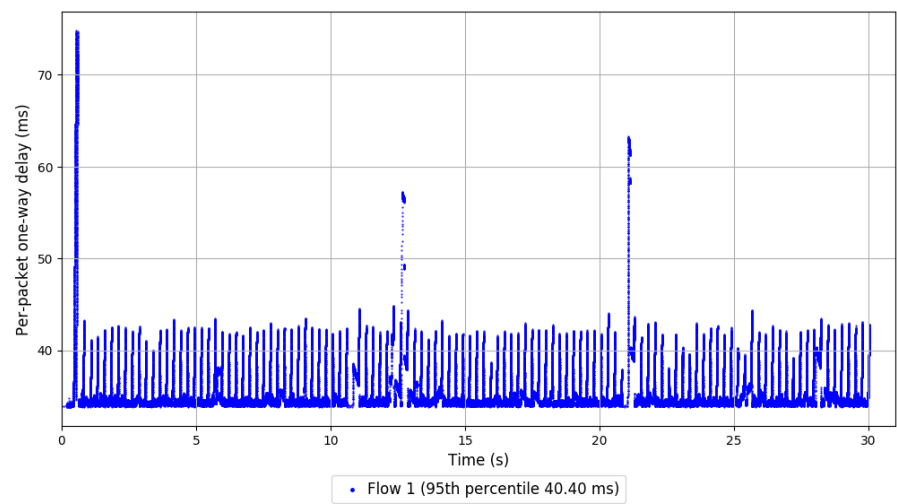
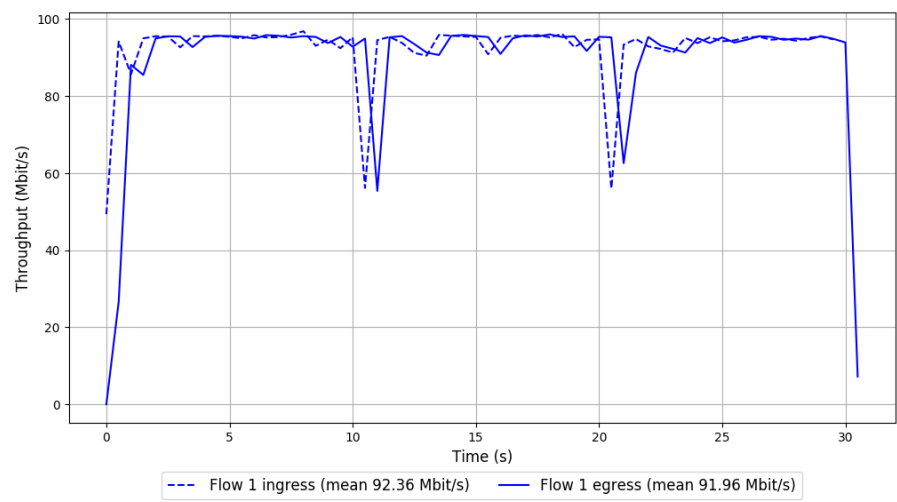
-- Flow 1:

Average throughput: 91.96 Mbit/s

95th percentile per-packet one-way delay: 40.399 ms

Loss rate: 0.41%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-11-24 03:01:08

End at: 2019-11-24 03:01:38

Local clock offset: 1.745 ms

Remote clock offset: 4.013 ms

# Below is generated by plot.py at 2019-11-24 07:05:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.59 Mbit/s

95th percentile per-packet one-way delay: 40.382 ms

Loss rate: 0.60%

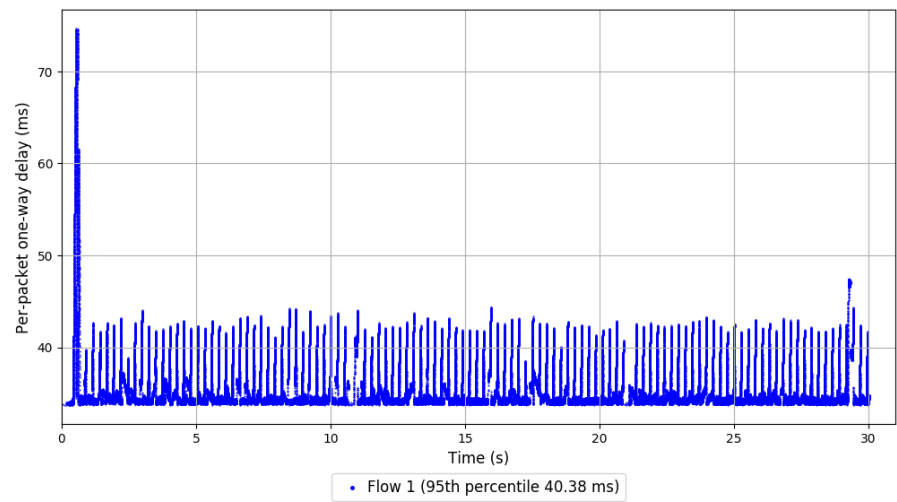
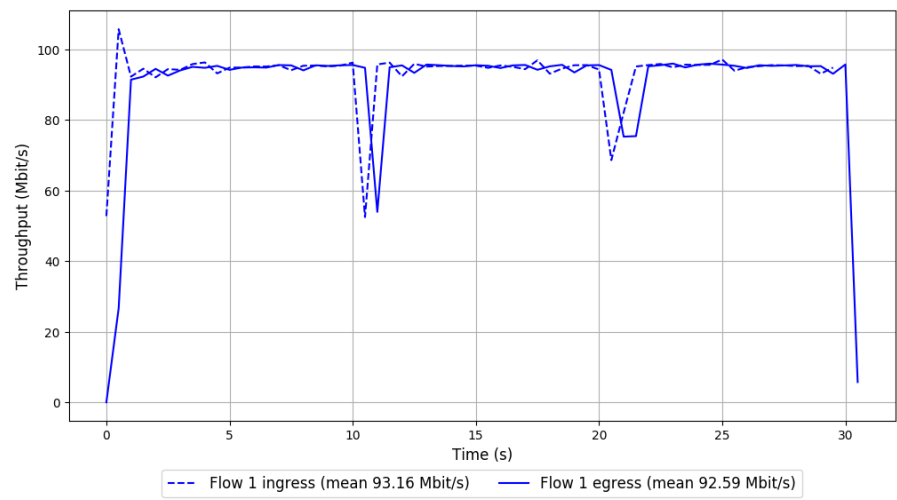
-- Flow 1:

Average throughput: 92.59 Mbit/s

95th percentile per-packet one-way delay: 40.382 ms

Loss rate: 0.60%

Run 4: Report of FillP-Sheep — Data Link





Run 5: Statistics of FillP-Sheep

Start at: 2019-11-24 06:30:32

End at: 2019-11-24 06:31:03

Local clock offset: 2.464 ms

Remote clock offset: 4.036 ms

# Below is generated by plot.py at 2019-11-24 07:05:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.65 Mbit/s

95th percentile per-packet one-way delay: 40.267 ms

Loss rate: 0.59%

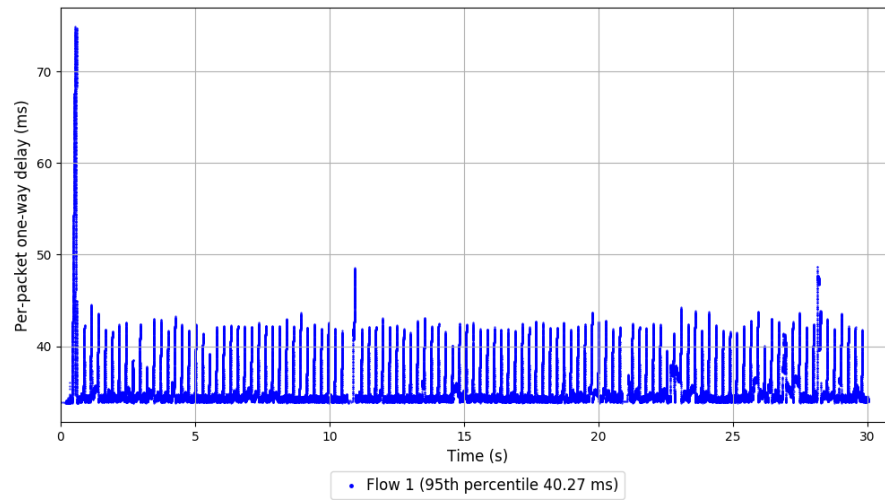
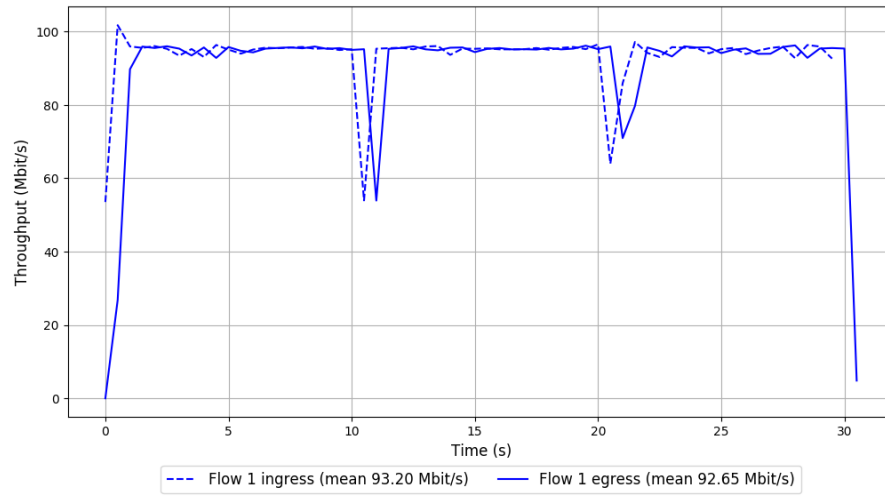
-- Flow 1:

Average throughput: 92.65 Mbit/s

95th percentile per-packet one-way delay: 40.267 ms

Loss rate: 0.59%

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

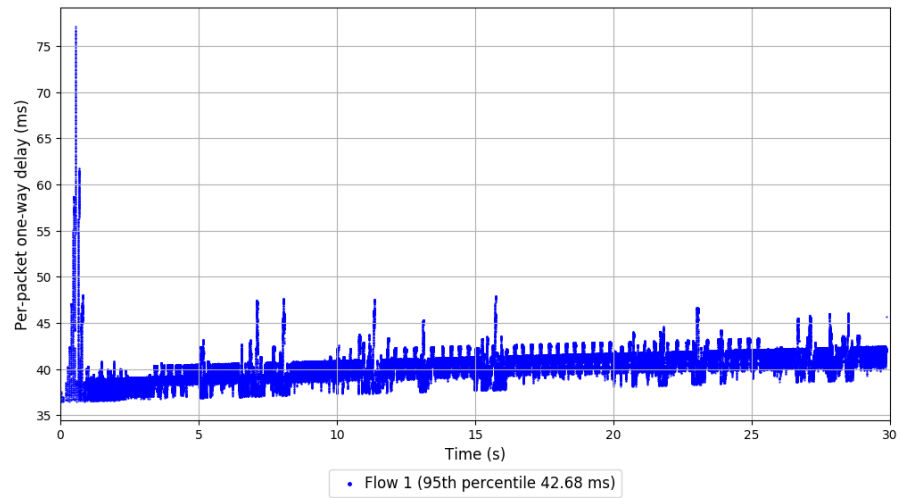
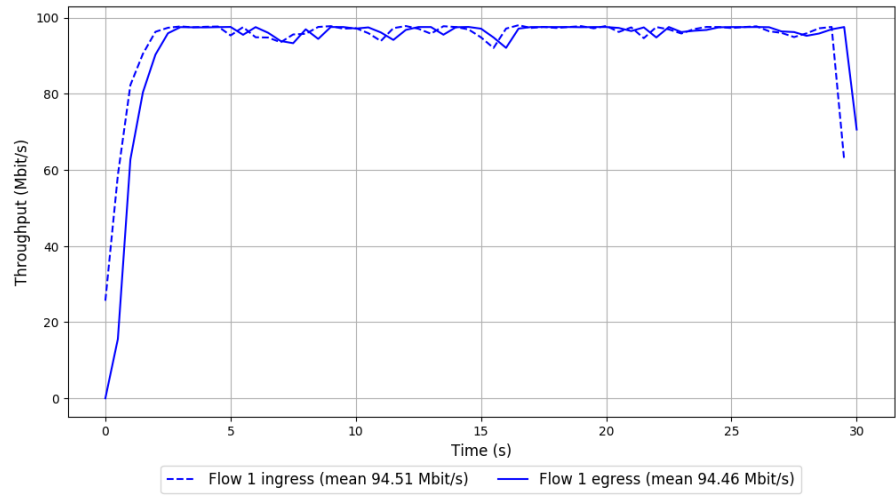


```
Run 1: Statistics of Indigo

Start at: 2019-11-23 23:09:44
End at: 2019-11-23 23:10:14
Local clock offset: -50.067 ms
Remote clock offset: 6.132 ms

# Below is generated by plot.py at 2019-11-24 07:05:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.46 Mbit/s
95th percentile per-packet one-way delay: 42.680 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 94.46 Mbit/s
95th percentile per-packet one-way delay: 42.680 ms
Loss rate: 0.02%
```

## Run 1: Report of Indigo — Data Link

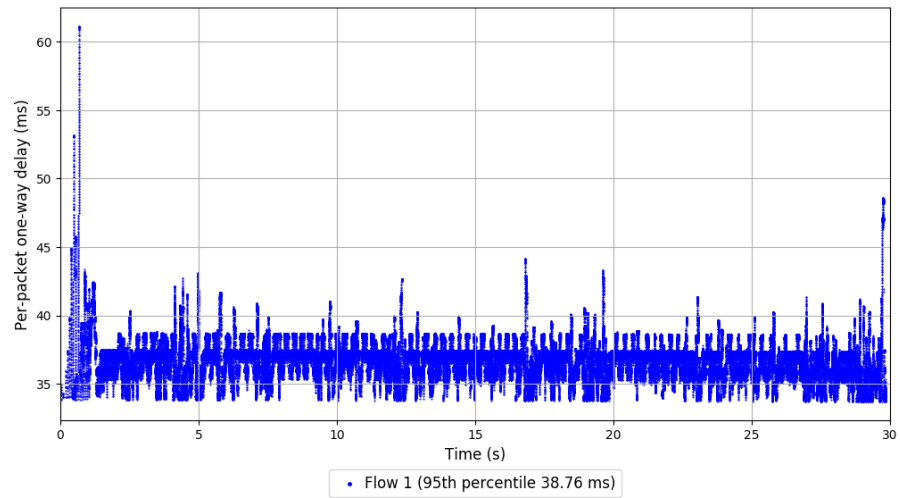
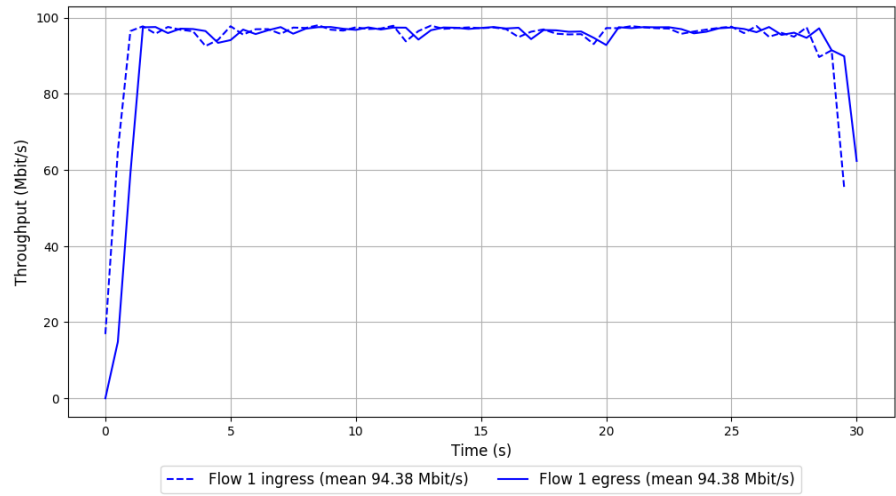


Run 2: Statistics of Indigo

Start at: 2019-11-24 00:02:33  
End at: 2019-11-24 00:03:03  
Local clock offset: -11.686 ms  
Remote clock offset: 6.15 ms

# Below is generated by plot.py at 2019-11-24 07:05:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.38 Mbit/s  
95th percentile per-packet one-way delay: 38.758 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 94.38 Mbit/s  
95th percentile per-packet one-way delay: 38.758 ms  
Loss rate: 0.00%

## Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-11-24 01:07:35

End at: 2019-11-24 01:08:05

Local clock offset: -1.525 ms

Remote clock offset: 6.02 ms

# Below is generated by plot.py at 2019-11-24 07:05:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.41 Mbit/s

95th percentile per-packet one-way delay: 38.748 ms

Loss rate: 0.00%

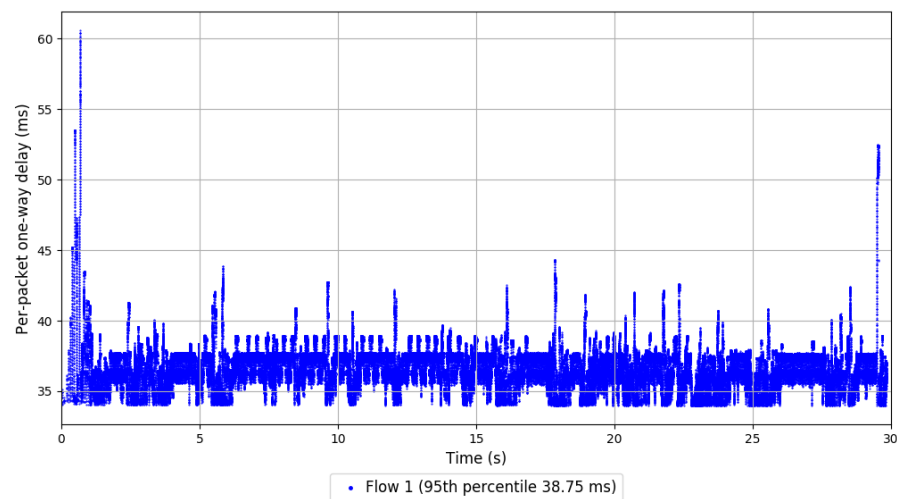
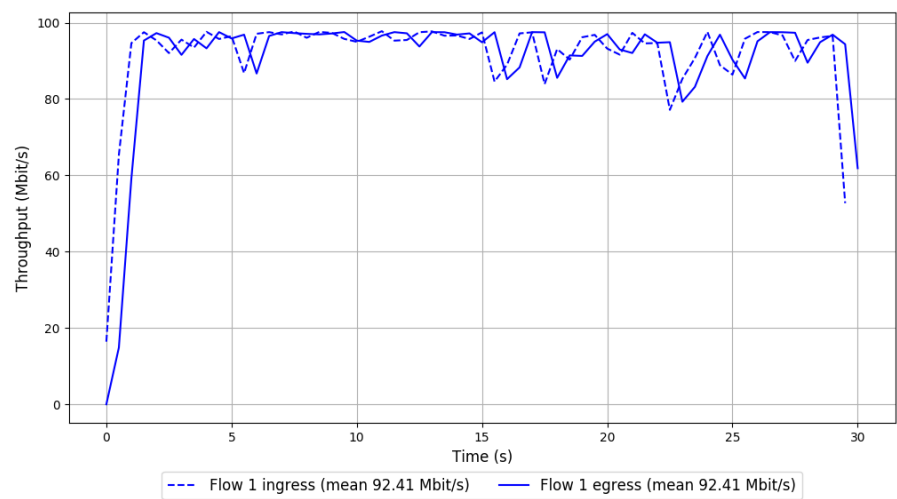
-- Flow 1:

Average throughput: 92.41 Mbit/s

95th percentile per-packet one-way delay: 38.748 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link





Run 4: Statistics of Indigo

Start at: 2019-11-24 04:10:00

End at: 2019-11-24 04:10:30

Local clock offset: 2.791 ms

Remote clock offset: 3.996 ms

# Below is generated by plot.py at 2019-11-24 07:05:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.55 Mbit/s

95th percentile per-packet one-way delay: 38.452 ms

Loss rate: 0.00%

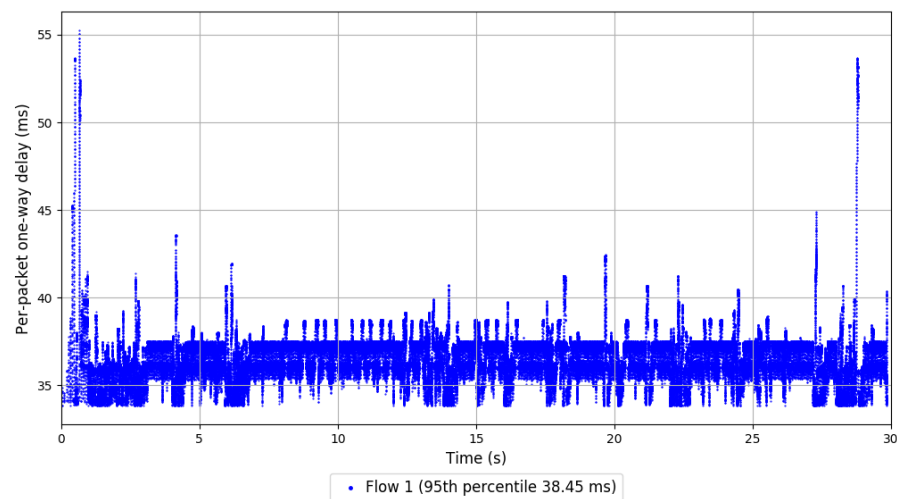
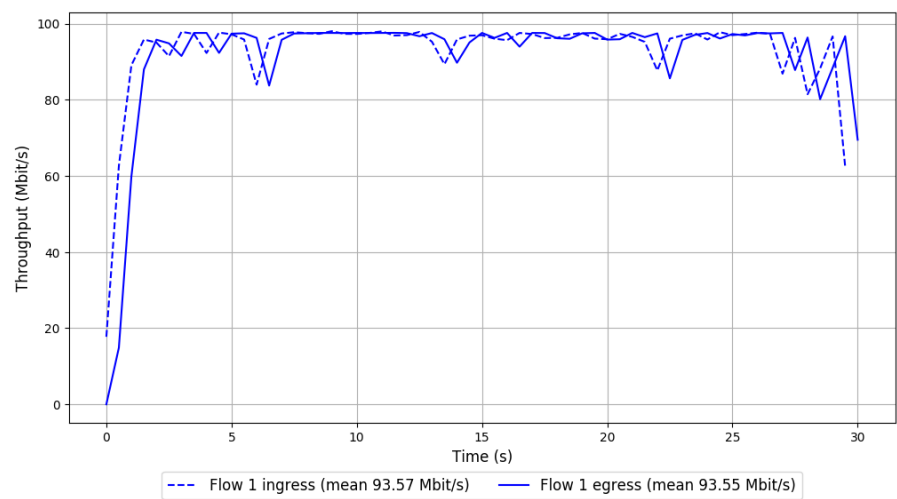
-- Flow 1:

Average throughput: 93.55 Mbit/s

95th percentile per-packet one-way delay: 38.452 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-11-24 06:49:49

End at: 2019-11-24 06:50:19

Local clock offset: 2.749 ms

Remote clock offset: 4.259 ms

# Below is generated by plot.py at 2019-11-24 07:06:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.63 Mbit/s

95th percentile per-packet one-way delay: 39.663 ms

Loss rate: 0.00%

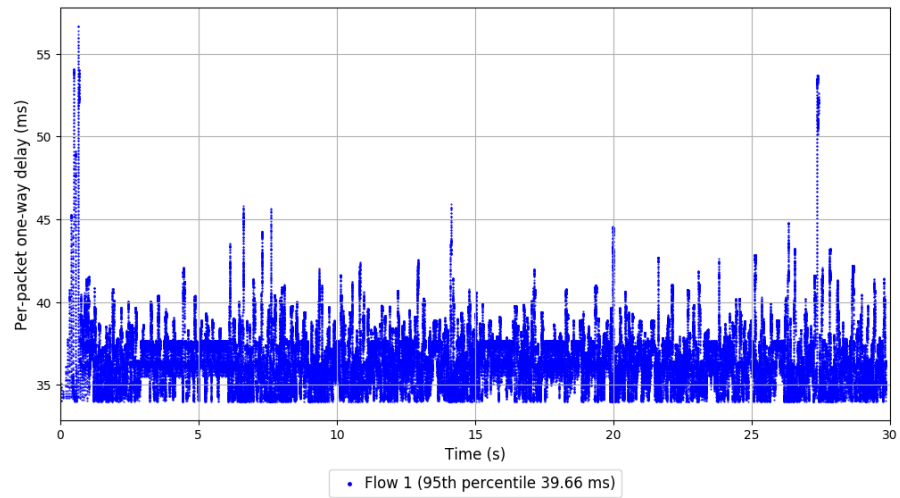
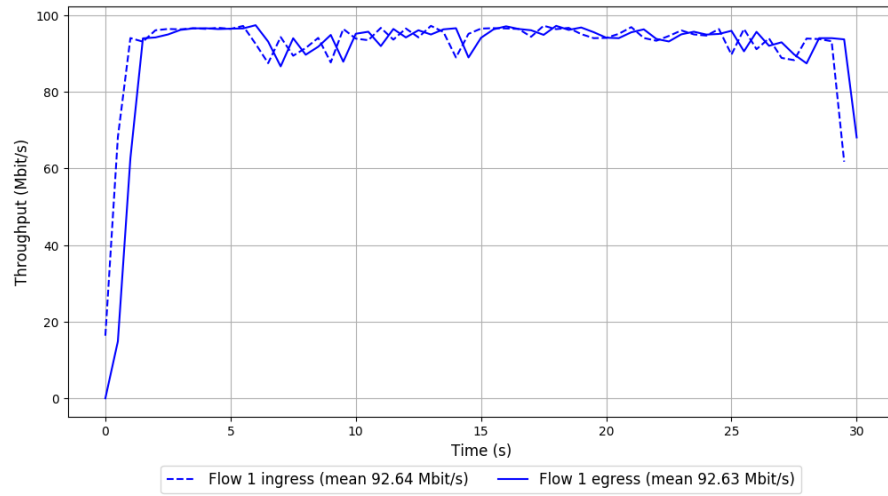
-- Flow 1:

Average throughput: 92.63 Mbit/s

95th percentile per-packet one-way delay: 39.663 ms

Loss rate: 0.00%

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

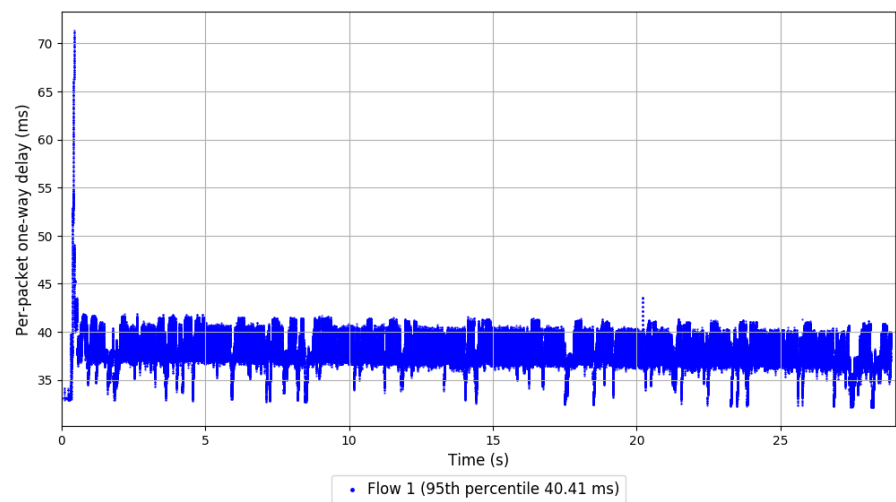
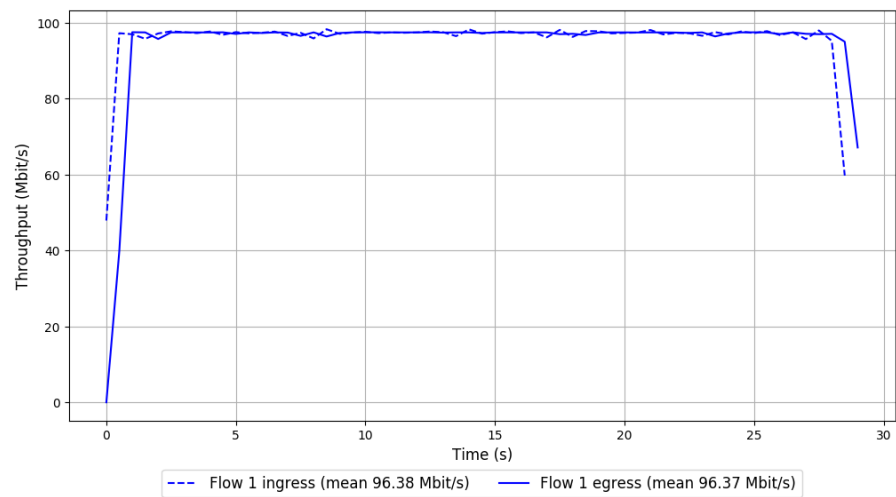


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-11-23 23:06:54  
End at: 2019-11-23 23:07:24  
Local clock offset: -45.771 ms  
Remote clock offset: 6.09 ms

# Below is generated by plot.py at 2019-11-24 07:06:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.37 Mbit/s  
95th percentile per-packet one-way delay: 40.408 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 96.37 Mbit/s  
95th percentile per-packet one-way delay: 40.408 ms  
Loss rate: 0.00%

Run 1: Report of Indigo-MusesC3 — Data Link

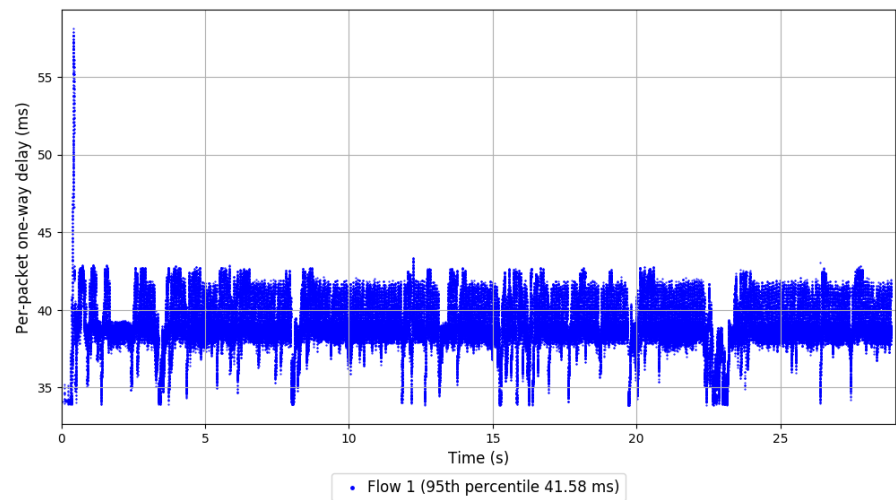
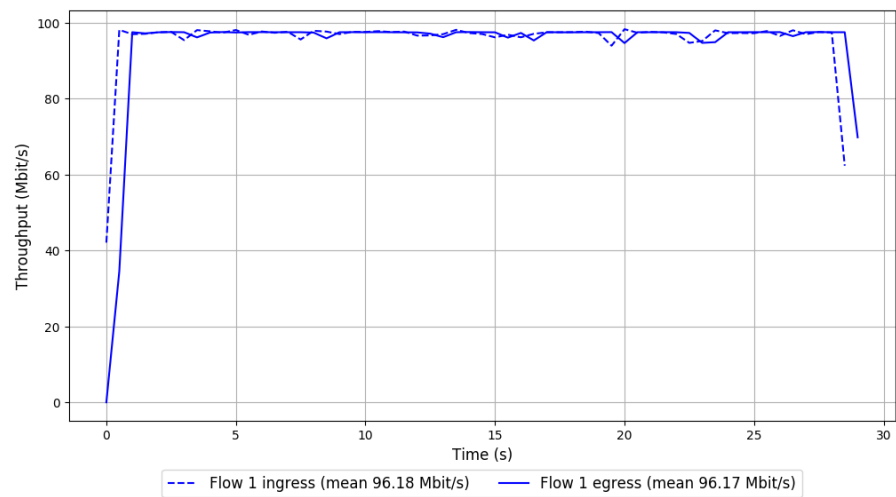


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-11-23 23:59:00  
End at: 2019-11-23 23:59:30  
Local clock offset: -10.865 ms  
Remote clock offset: 6.305 ms

# Below is generated by plot.py at 2019-11-24 07:06:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.17 Mbit/s  
95th percentile per-packet one-way delay: 41.581 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 96.17 Mbit/s  
95th percentile per-packet one-way delay: 41.581 ms  
Loss rate: 0.00%

Run 2: Report of Indigo-MusesC3 — Data Link





Run 3: Statistics of Indigo-MusesC3

Start at: 2019-11-24 01:03:47

End at: 2019-11-24 01:04:17

Local clock offset: -1.138 ms

Remote clock offset: 6.028 ms

# Below is generated by plot.py at 2019-11-24 07:06:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.35 Mbit/s

95th percentile per-packet one-way delay: 41.947 ms

Loss rate: 0.00%

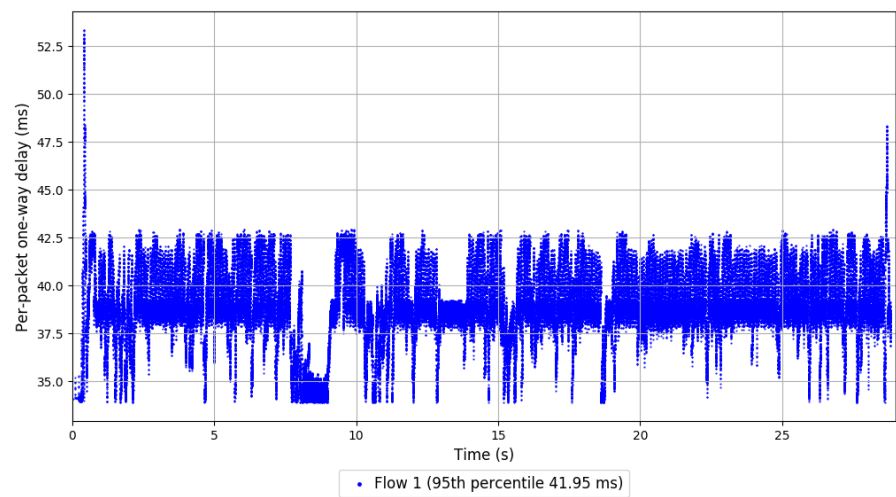
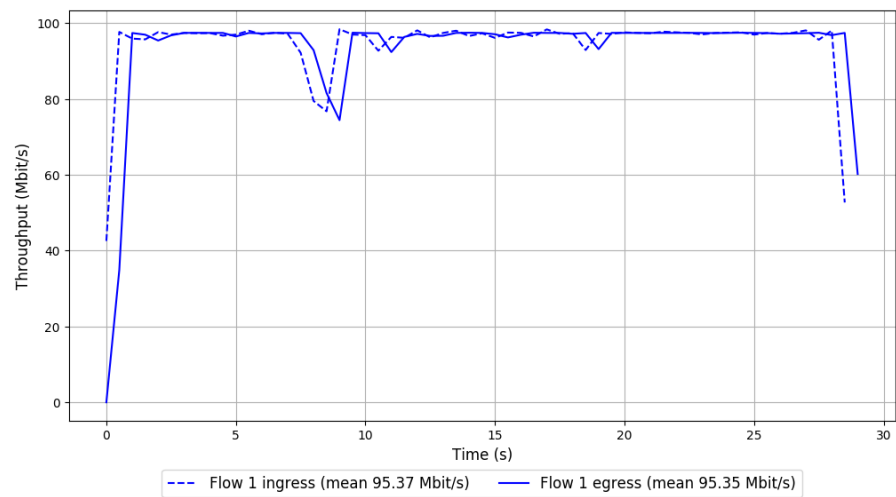
-- Flow 1:

Average throughput: 95.35 Mbit/s

95th percentile per-packet one-way delay: 41.947 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-11-24 03:38:01

End at: 2019-11-24 03:38:31

Local clock offset: 3.351 ms

Remote clock offset: 4.068 ms

# Below is generated by plot.py at 2019-11-24 07:06:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 41.463 ms

Loss rate: 0.05%

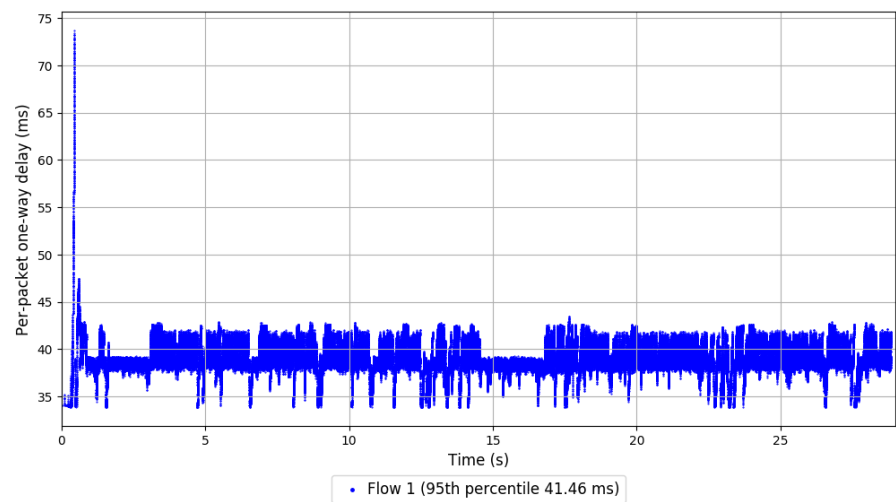
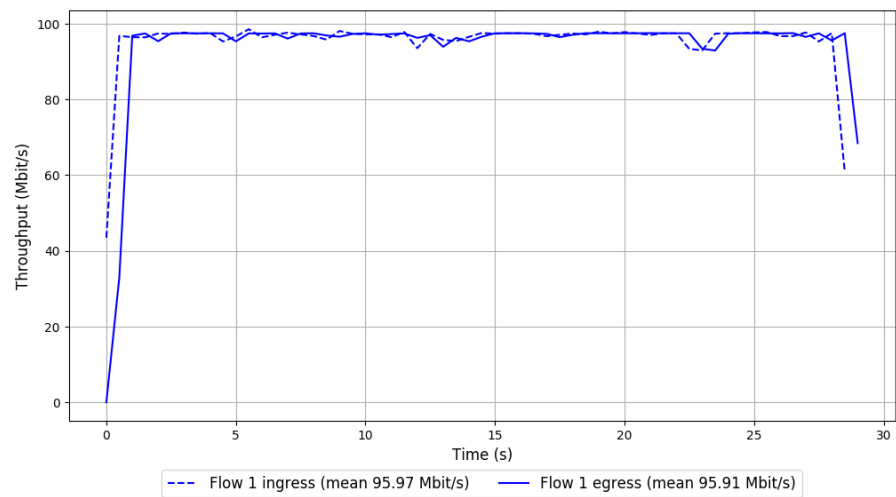
-- Flow 1:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 41.463 ms

Loss rate: 0.05%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-11-24 06:43:48

End at: 2019-11-24 06:44:18

Local clock offset: 2.613 ms

Remote clock offset: 4.15 ms

# Below is generated by plot.py at 2019-11-24 07:06:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.11 Mbit/s

95th percentile per-packet one-way delay: 41.890 ms

Loss rate: 0.00%

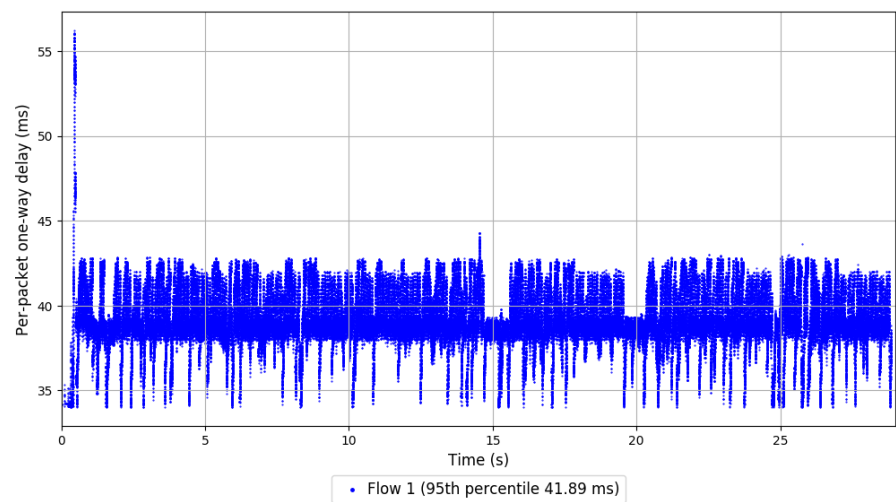
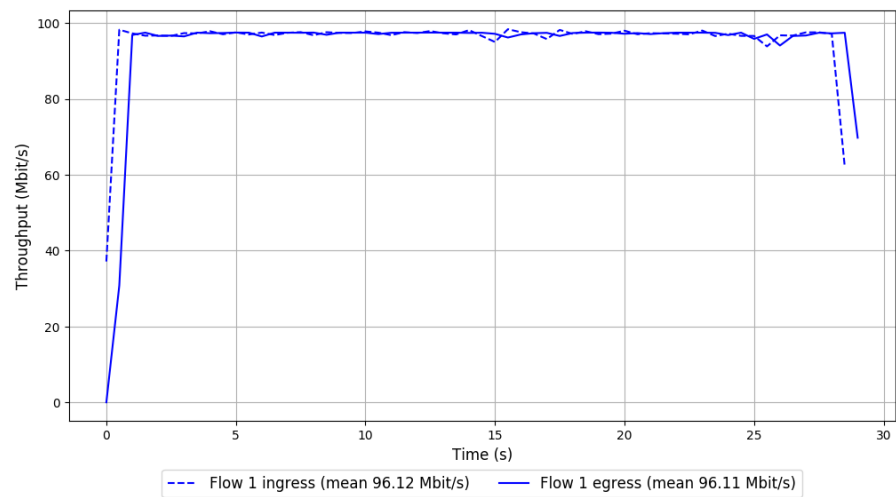
-- Flow 1:

Average throughput: 96.11 Mbit/s

95th percentile per-packet one-way delay: 41.890 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC3 — Data Link

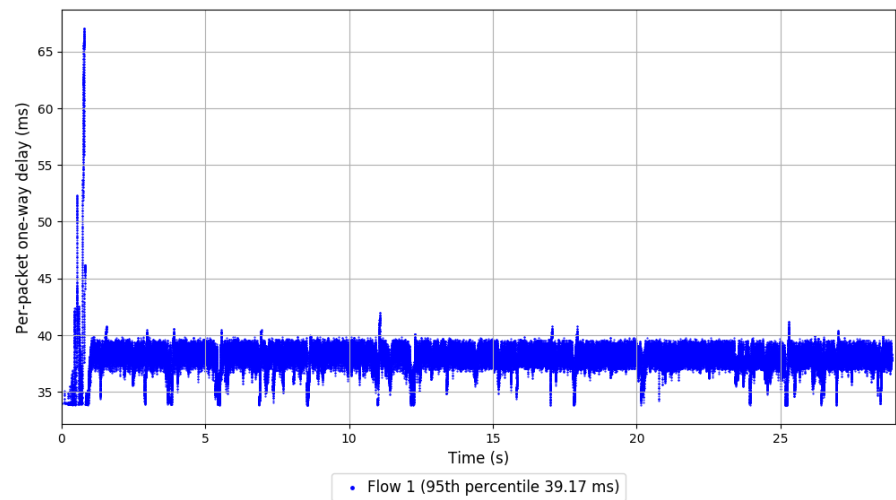
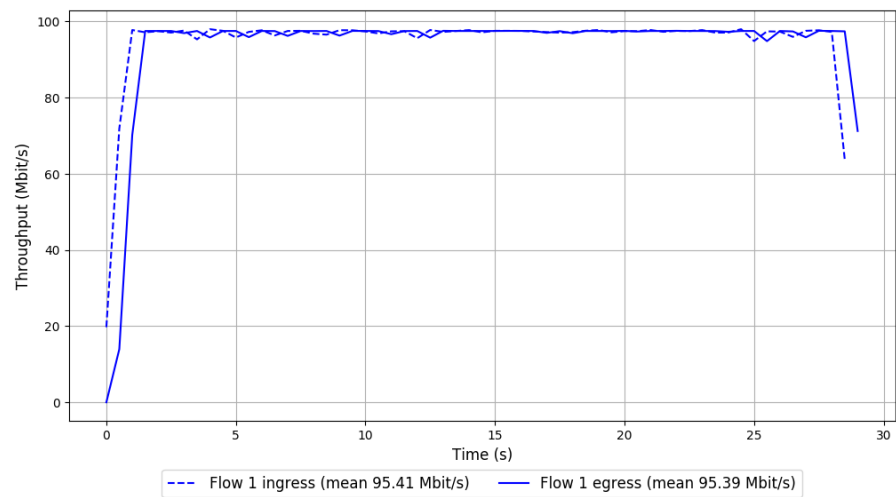


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-11-23 22:44:56  
End at: 2019-11-23 22:45:26  
Local clock offset: -21.186 ms  
Remote clock offset: 6.243 ms

# Below is generated by plot.py at 2019-11-24 07:06:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.39 Mbit/s  
95th percentile per-packet one-way delay: 39.169 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 95.39 Mbit/s  
95th percentile per-packet one-way delay: 39.169 ms  
Loss rate: 0.00%

Run 1: Report of Indigo-MusesC5 — Data Link



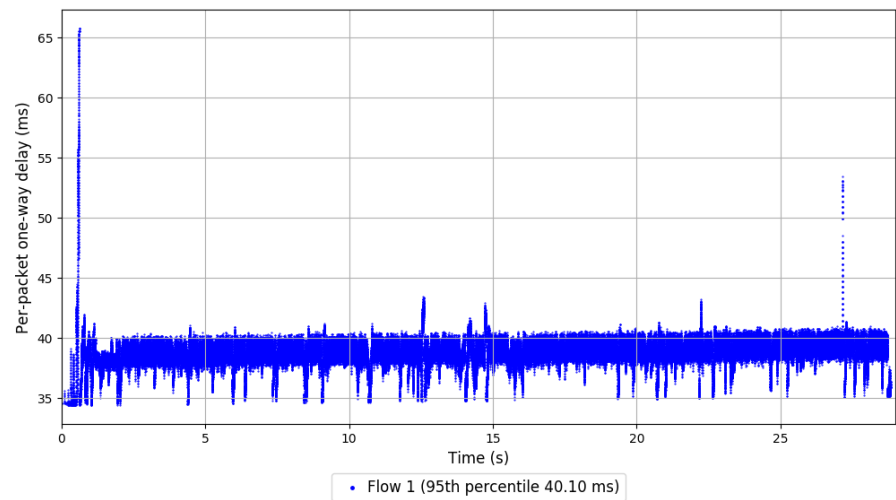
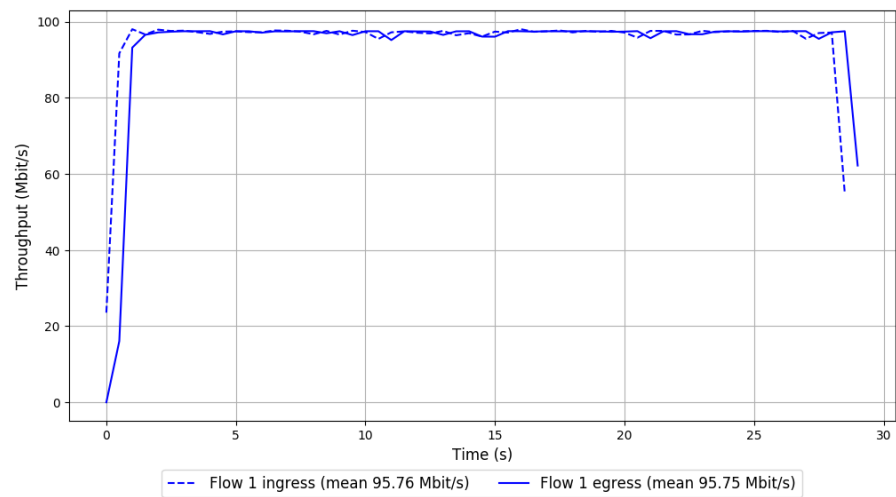


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-11-23 23:43:14  
End at: 2019-11-23 23:43:44  
Local clock offset: -18.455 ms  
Remote clock offset: 6.848 ms

# Below is generated by plot.py at 2019-11-24 07:06:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.75 Mbit/s  
95th percentile per-packet one-way delay: 40.101 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 95.75 Mbit/s  
95th percentile per-packet one-way delay: 40.101 ms  
Loss rate: 0.00%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-11-24 00:43:27

End at: 2019-11-24 00:43:57

Local clock offset: -3.097 ms

Remote clock offset: 6.089 ms

# Below is generated by plot.py at 2019-11-24 07:07:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.19 Mbit/s

95th percentile per-packet one-way delay: 39.737 ms

Loss rate: 0.00%

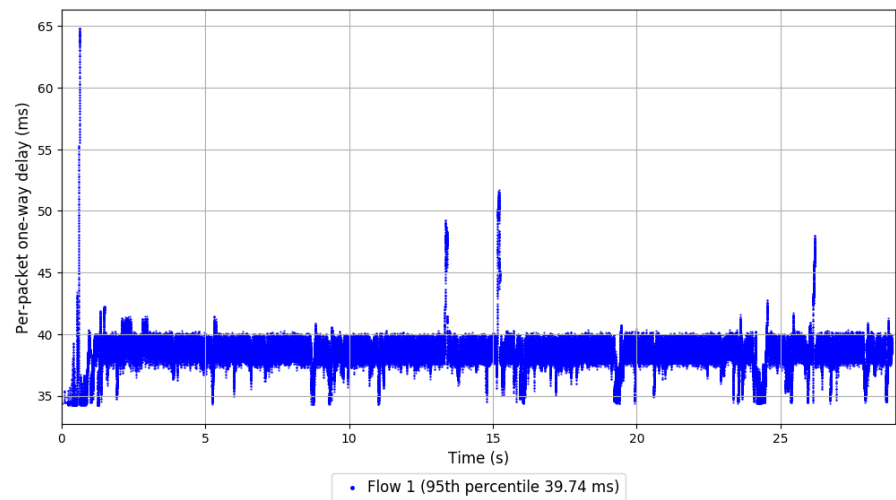
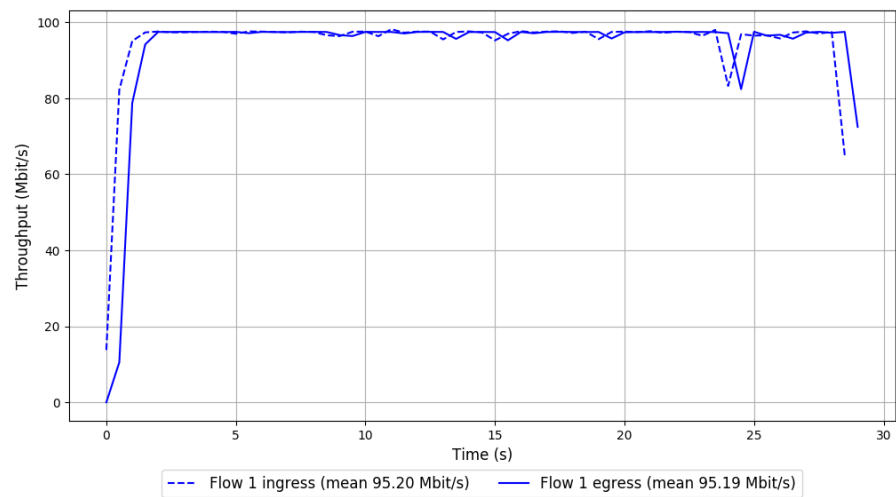
-- Flow 1:

Average throughput: 95.19 Mbit/s

95th percentile per-packet one-way delay: 39.737 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-11-24 02:11:44

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

Local clock offset: 2.277 ms

Remote clock offset: 4.832 ms

# Below is generated by plot.py at 2019-11-24 07:07:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.40 Mbit/s

95th percentile per-packet one-way delay: 39.516 ms

Loss rate: 0.28%

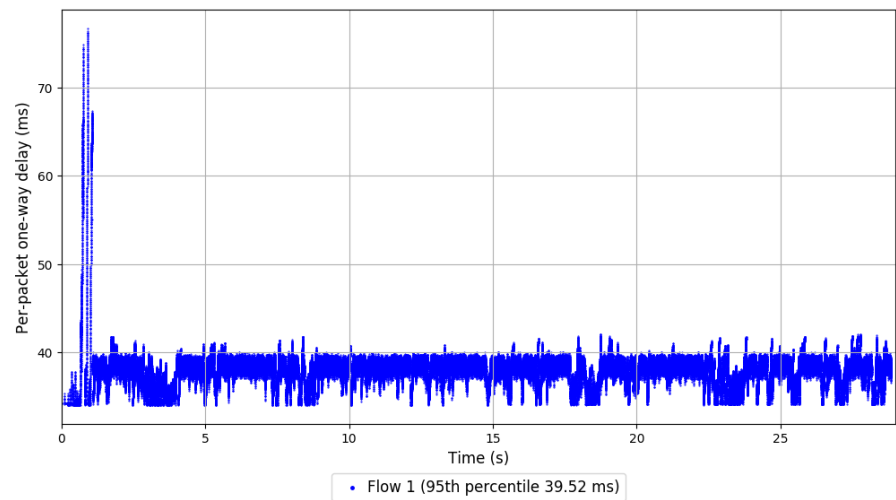
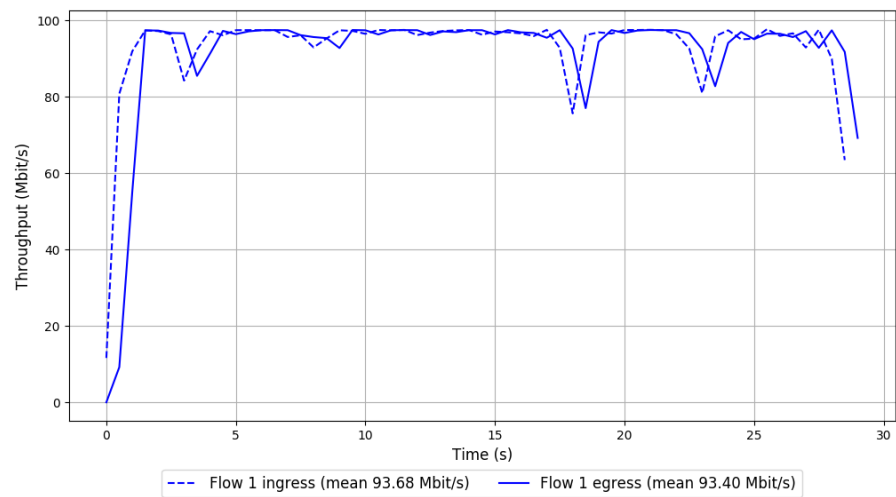
-- Flow 1:

Average throughput: 93.40 Mbit/s

95th percentile per-packet one-way delay: 39.516 ms

Loss rate: 0.28%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-11-24 06:13:02

End at: 2019-11-24 06:13:32

Local clock offset: 2.611 ms

Remote clock offset: 4.329 ms

# Below is generated by plot.py at 2019-11-24 07:07:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.95 Mbit/s

95th percentile per-packet one-way delay: 39.339 ms

Loss rate: 0.00%

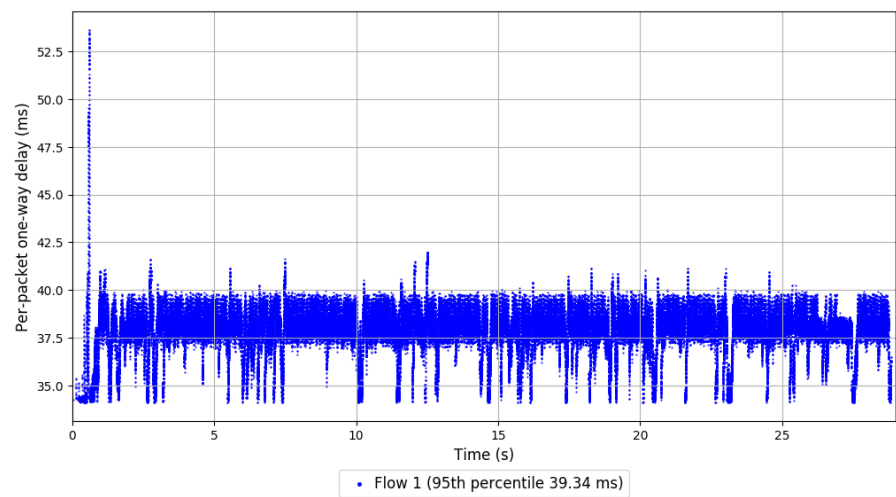
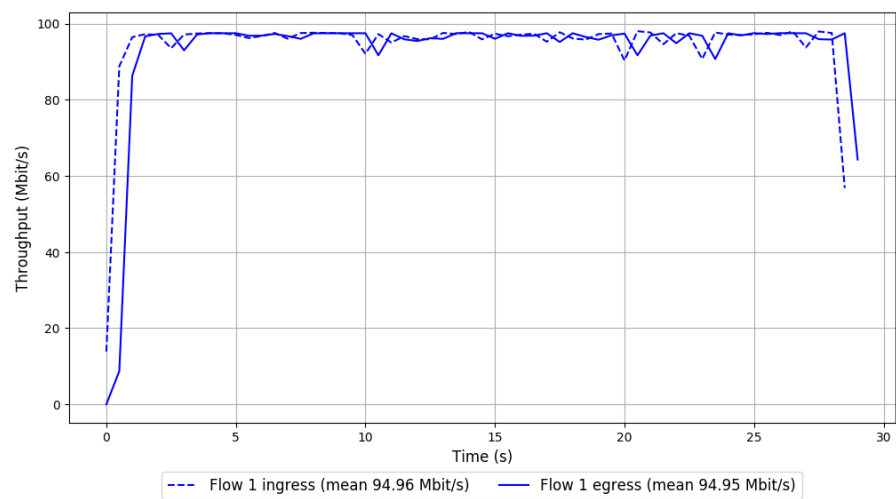
-- Flow 1:

Average throughput: 94.95 Mbit/s

95th percentile per-packet one-way delay: 39.339 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC5 — Data Link



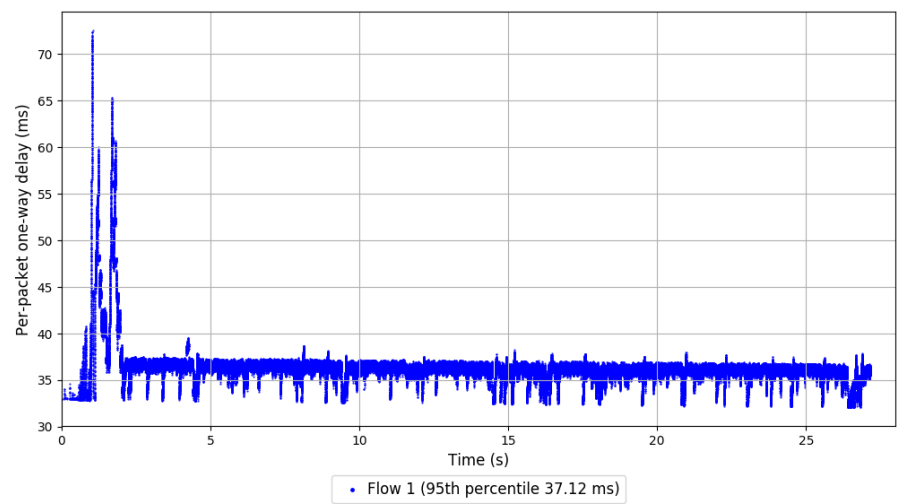
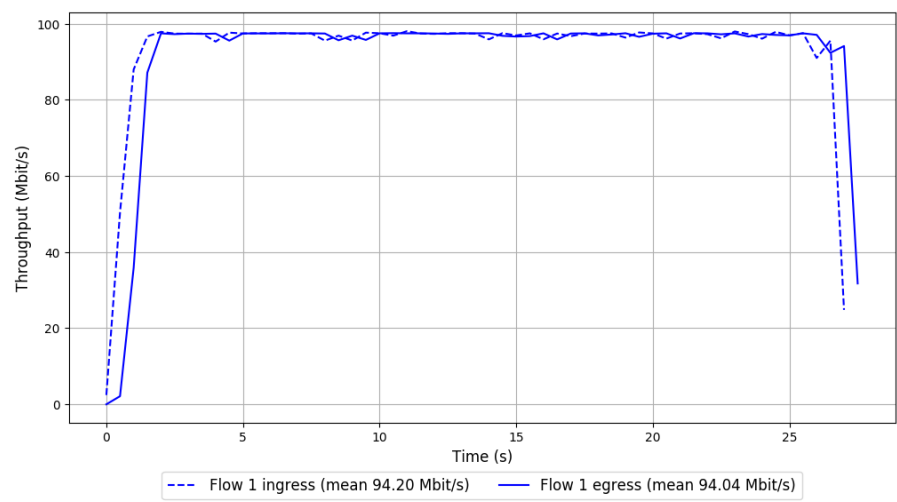


Run 1: Statistics of Indigo-MusesD

Start at: 2019-11-23 22:38:04  
End at: 2019-11-23 22:38:34  
Local clock offset: -21.767 ms  
Remote clock offset: 6.351 ms

# Below is generated by plot.py at 2019-11-24 07:07:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.04 Mbit/s  
95th percentile per-packet one-way delay: 37.119 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 94.04 Mbit/s  
95th percentile per-packet one-way delay: 37.119 ms  
Loss rate: 0.16%

Run 1: Report of Indigo-MusesD — Data Link

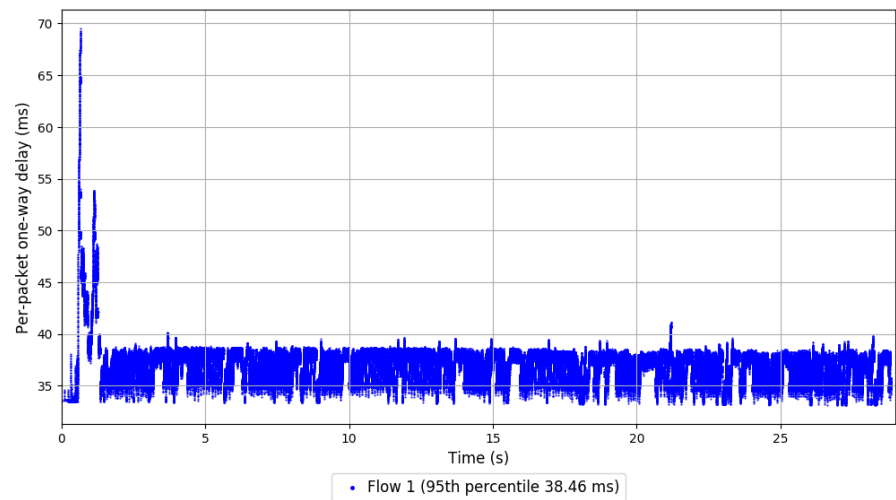
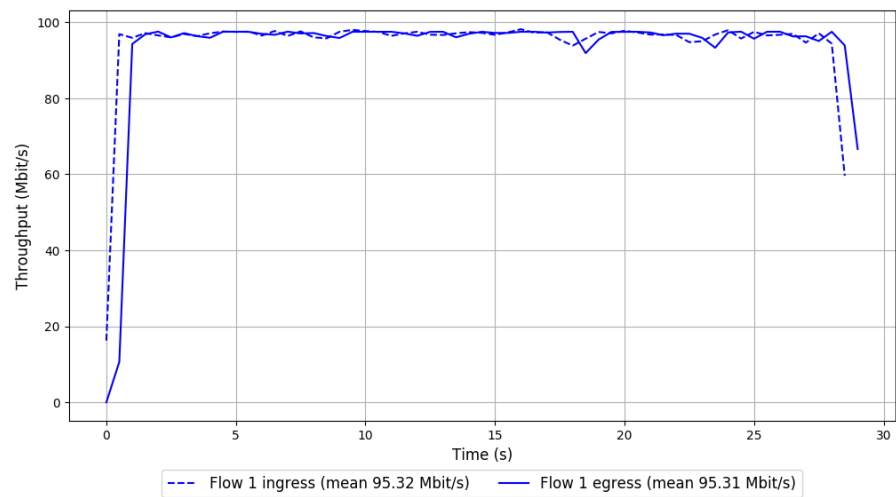


Run 2: Statistics of Indigo-MusesD

Start at: 2019-11-23 23:36:25  
End at: 2019-11-23 23:36:55  
Local clock offset: -24.437 ms  
Remote clock offset: 6.906 ms

# Below is generated by plot.py at 2019-11-24 07:07:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.31 Mbit/s  
95th percentile per-packet one-way delay: 38.456 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 95.31 Mbit/s  
95th percentile per-packet one-way delay: 38.456 ms  
Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-11-24 00:35:55

End at: 2019-11-24 00:36:25

Local clock offset: -4.796 ms

Remote clock offset: 6.172 ms

# Below is generated by plot.py at 2019-11-24 07:07:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.86 Mbit/s

95th percentile per-packet one-way delay: 38.299 ms

Loss rate: 0.02%

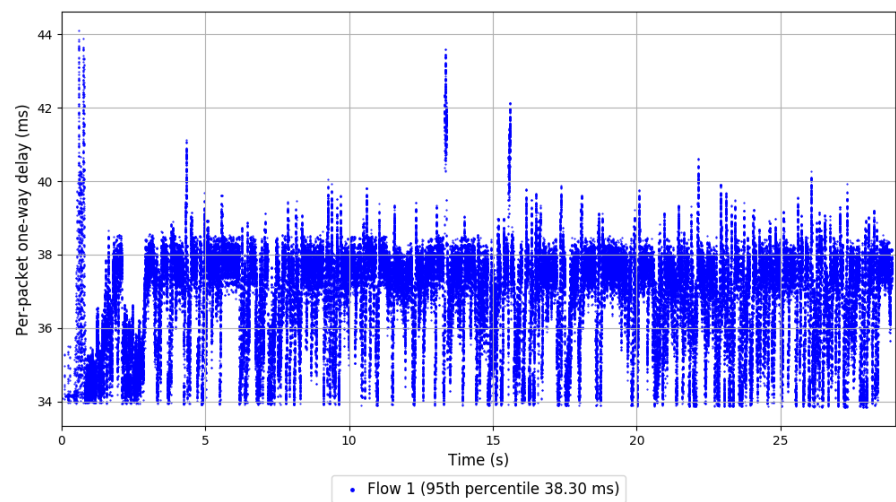
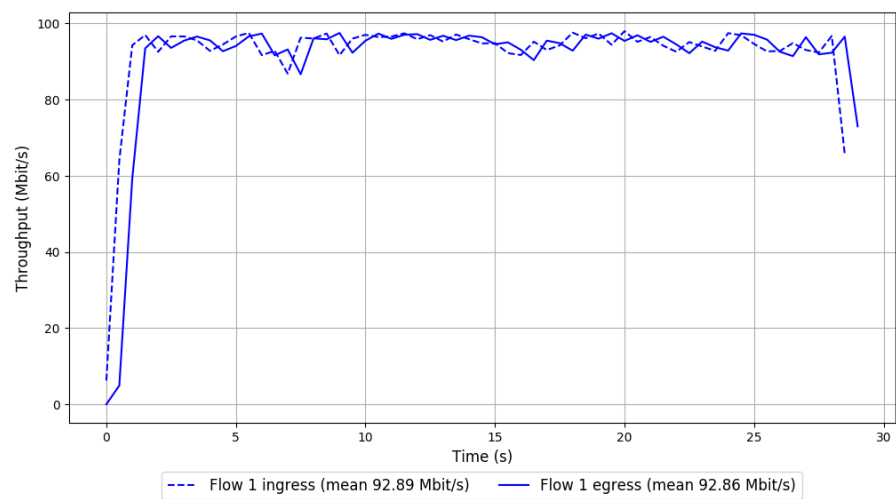
-- Flow 1:

Average throughput: 92.86 Mbit/s

95th percentile per-packet one-way delay: 38.299 ms

Loss rate: 0.02%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-11-24 01:51:49

End at: 2019-11-24 01:52:19

Local clock offset: 2.181 ms

Remote clock offset: 5.777 ms

# Below is generated by plot.py at 2019-11-24 07:07:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.03 Mbit/s

95th percentile per-packet one-way delay: 38.131 ms

Loss rate: 0.00%

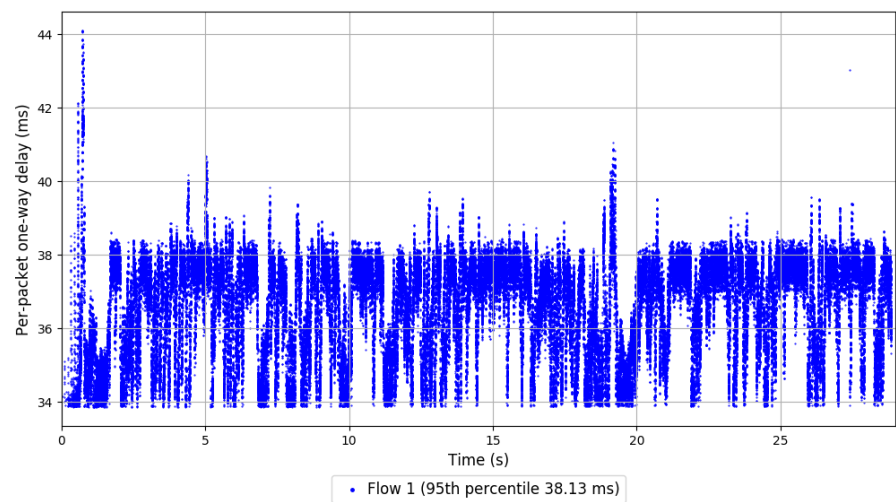
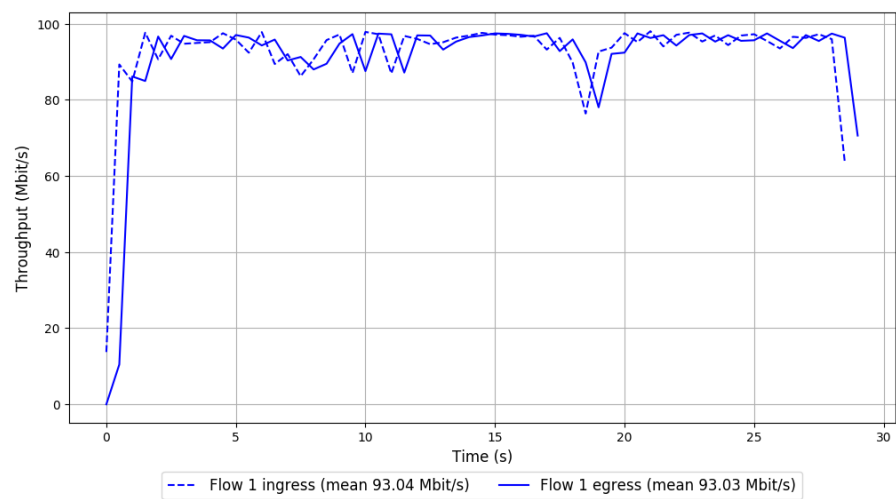
-- Flow 1:

Average throughput: 93.03 Mbit/s

95th percentile per-packet one-way delay: 38.131 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-11-24 05:55:09

End at: 2019-11-24 05:55:39

Local clock offset: 2.731 ms

Remote clock offset: 4.263 ms

# Below is generated by plot.py at 2019-11-24 07:08:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.40 Mbit/s

95th percentile per-packet one-way delay: 38.111 ms

Loss rate: 0.00%

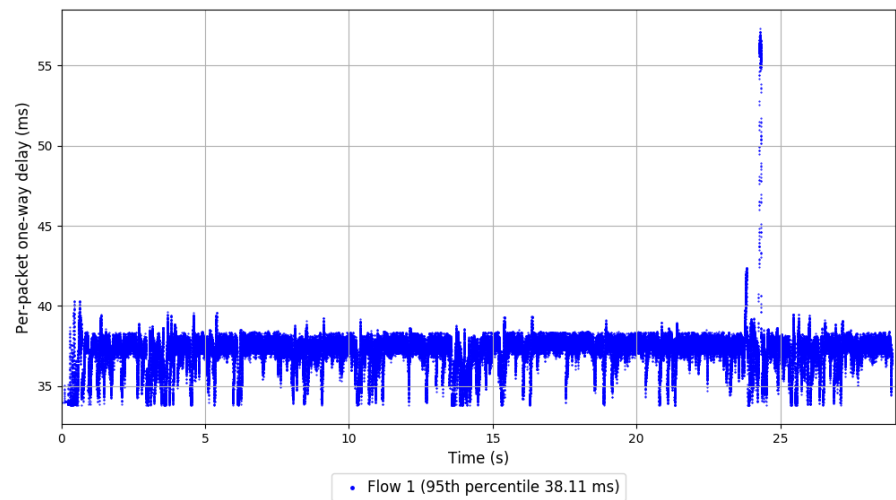
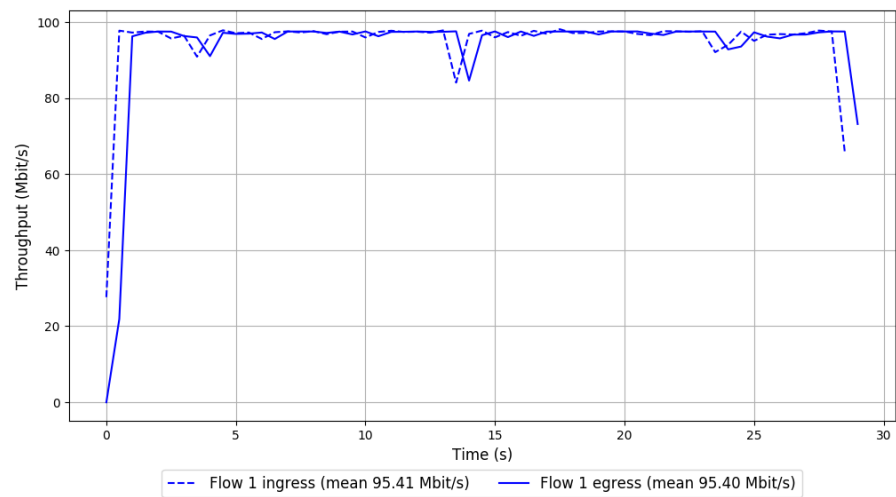
-- Flow 1:

Average throughput: 95.40 Mbit/s

95th percentile per-packet one-way delay: 38.111 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-11-23 23:04:15

End at: 2019-11-23 23:04:45

Local clock offset: -41.53 ms

Remote clock offset: 6.052 ms

# Below is generated by plot.py at 2019-11-24 07:08:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.92 Mbit/s

95th percentile per-packet one-way delay: 41.325 ms

Loss rate: 0.63%

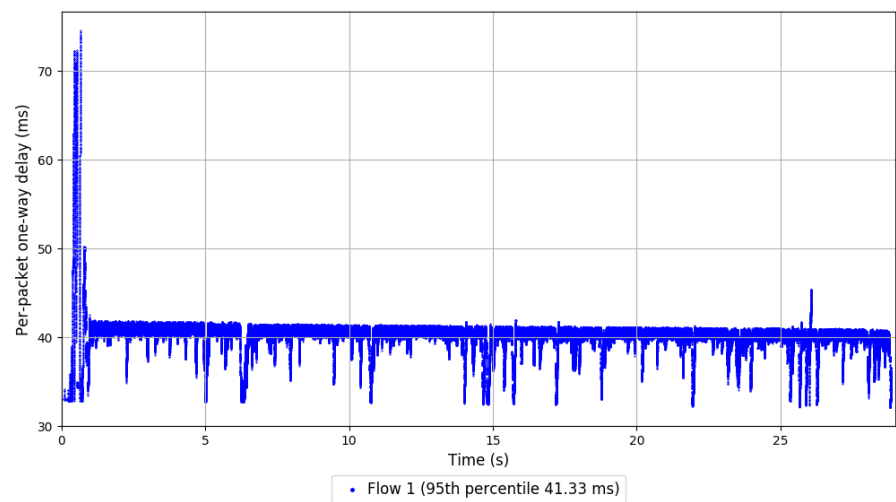
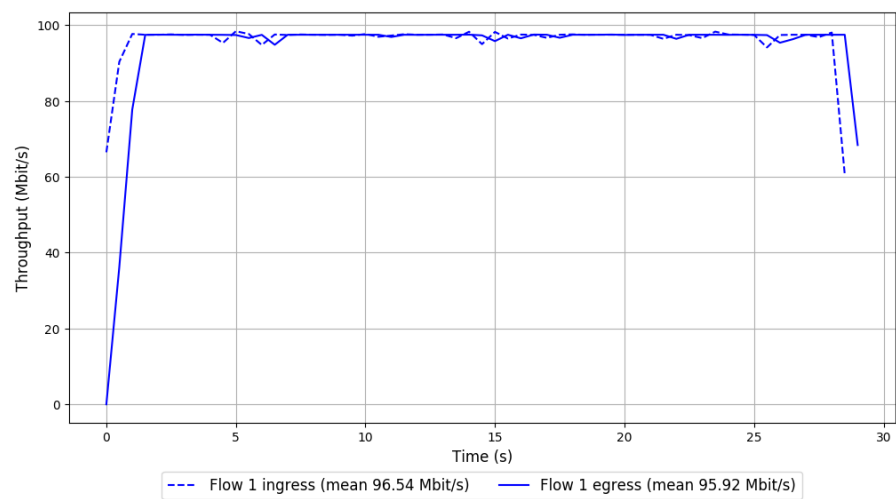
-- Flow 1:

Average throughput: 95.92 Mbit/s

95th percentile per-packet one-way delay: 41.325 ms

Loss rate: 0.63%

Run 1: Report of Indigo-MusesT — Data Link

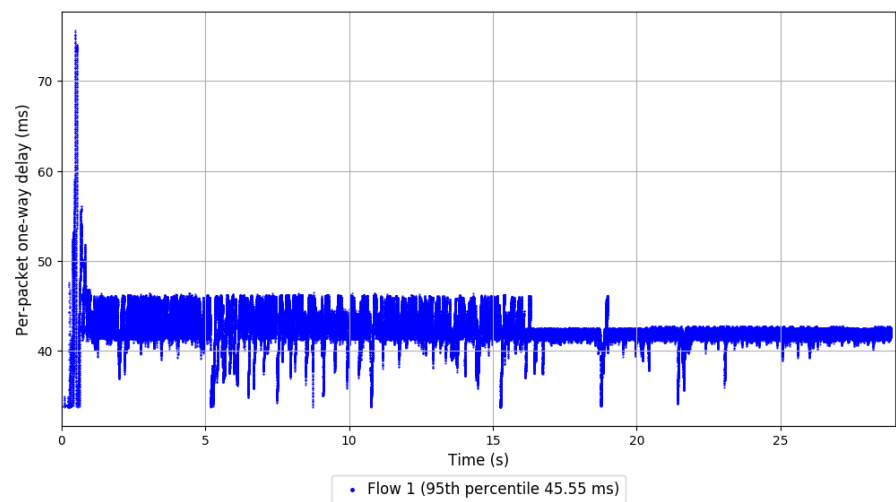
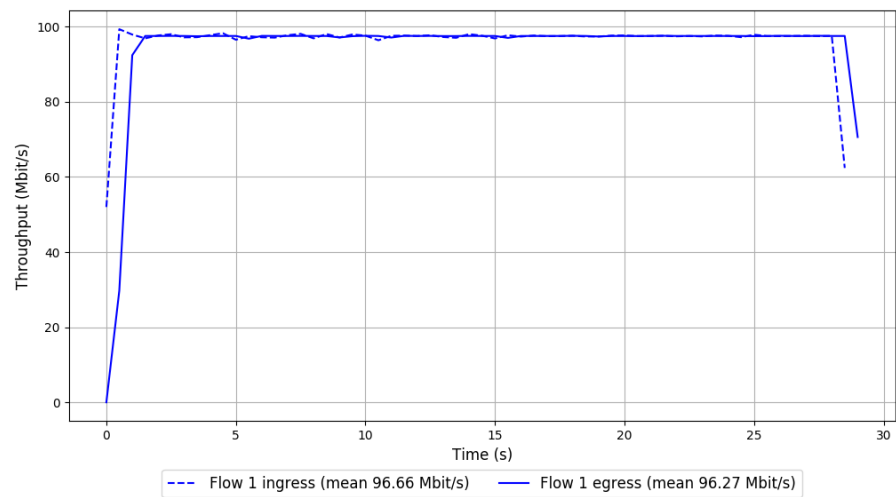


Run 2: Statistics of Indigo-MusesT

Start at: 2019-11-23 23:56:24  
End at: 2019-11-23 23:56:54  
Local clock offset: -10.523 ms  
Remote clock offset: 6.16 ms

# Below is generated by plot.py at 2019-11-24 07:08:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.27 Mbit/s  
95th percentile per-packet one-way delay: 45.547 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 96.27 Mbit/s  
95th percentile per-packet one-way delay: 45.547 ms  
Loss rate: 0.37%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-11-24 01:00:18

End at: 2019-11-24 01:00:48

Local clock offset: -0.854 ms

Remote clock offset: 5.994 ms

# Below is generated by plot.py at 2019-11-24 07:08:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.77 Mbit/s

95th percentile per-packet one-way delay: 44.542 ms

Loss rate: 0.29%

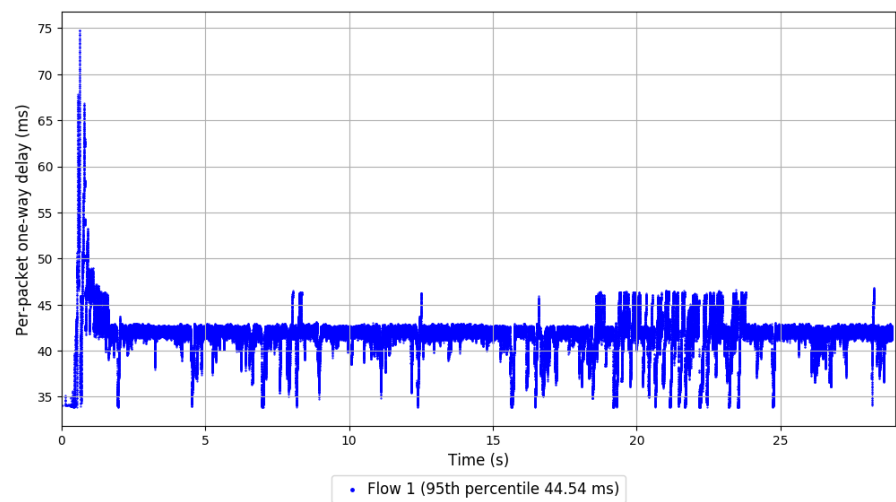
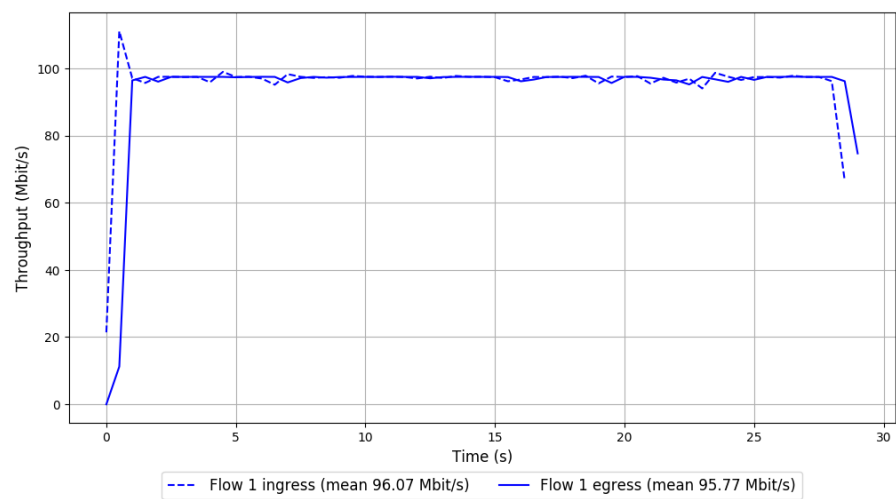
-- Flow 1:

Average throughput: 95.77 Mbit/s

95th percentile per-packet one-way delay: 44.542 ms

Loss rate: 0.29%

Run 3: Report of Indigo-MusesT — Data Link





Run 4: Statistics of Indigo-MusesT

Start at: 2019-11-24 03:24:18

End at: 2019-11-24 03:24:48

Local clock offset: 3.084 ms

Remote clock offset: 4.059 ms

# Below is generated by plot.py at 2019-11-24 07:08:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.71 Mbit/s

95th percentile per-packet one-way delay: 46.105 ms

Loss rate: 0.43%

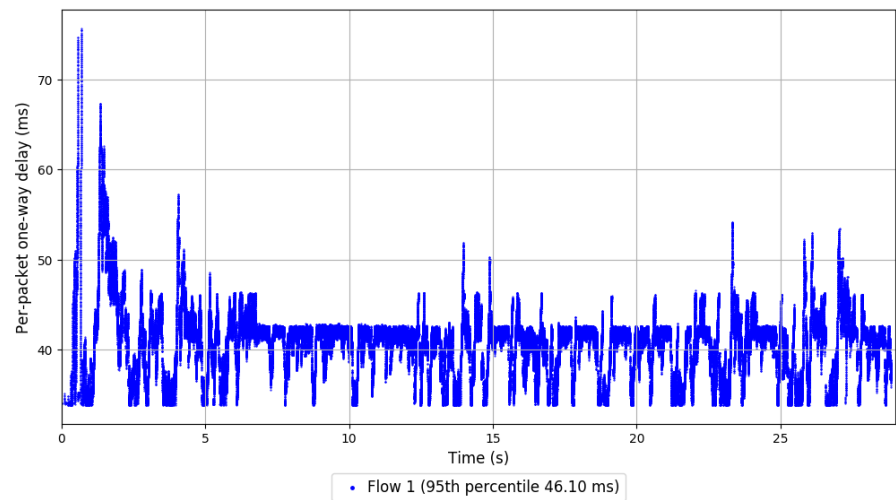
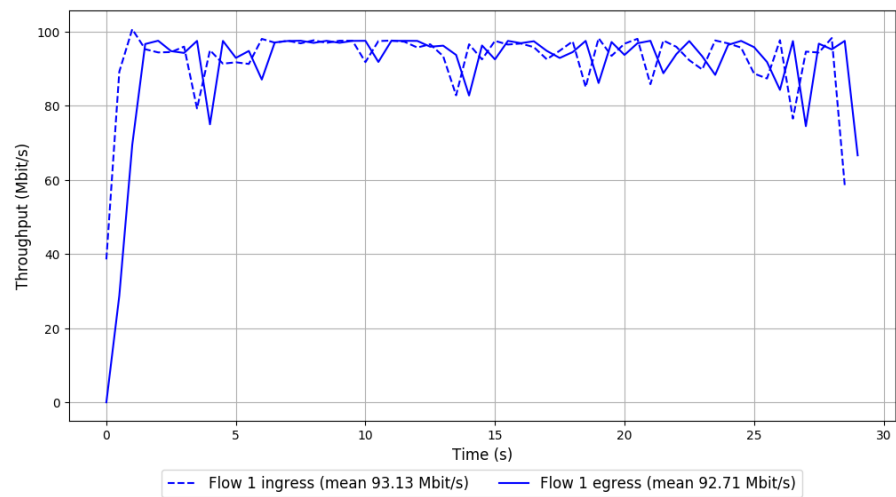
-- Flow 1:

Average throughput: 92.71 Mbit/s

95th percentile per-packet one-way delay: 46.105 ms

Loss rate: 0.43%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-11-24 06:38:23

End at: 2019-11-24 06:38:53

Local clock offset: 2.432 ms

Remote clock offset: 4.109 ms

# Below is generated by plot.py at 2019-11-24 07:08:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.80 Mbit/s

95th percentile per-packet one-way delay: 42.803 ms

Loss rate: 0.58%

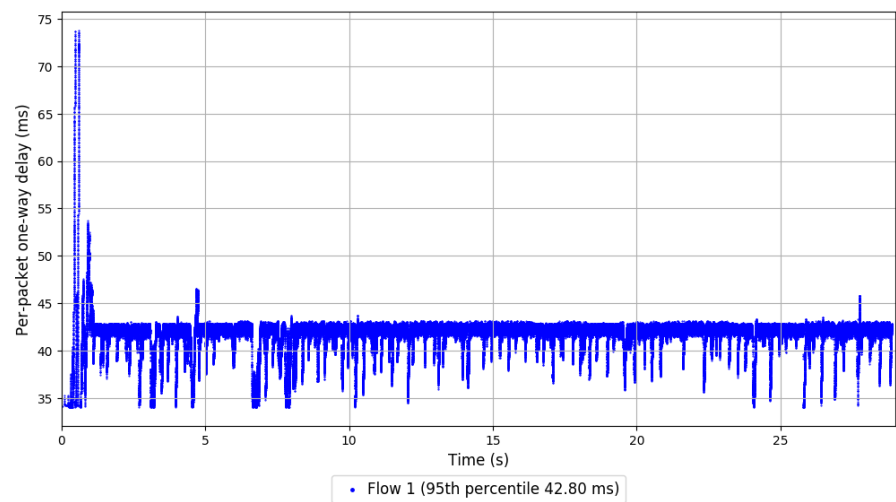
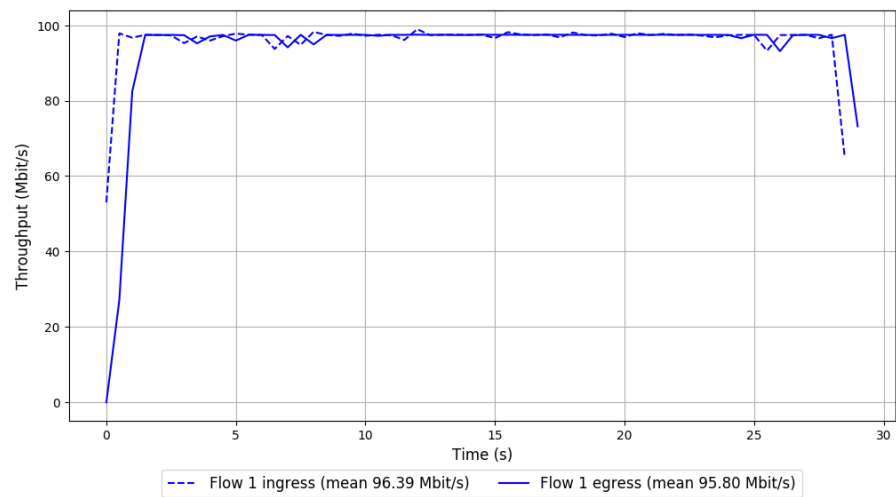
-- Flow 1:

Average throughput: 95.80 Mbit/s

95th percentile per-packet one-way delay: 42.803 ms

Loss rate: 0.58%

Run 5: Report of Indigo-MusesT — Data Link

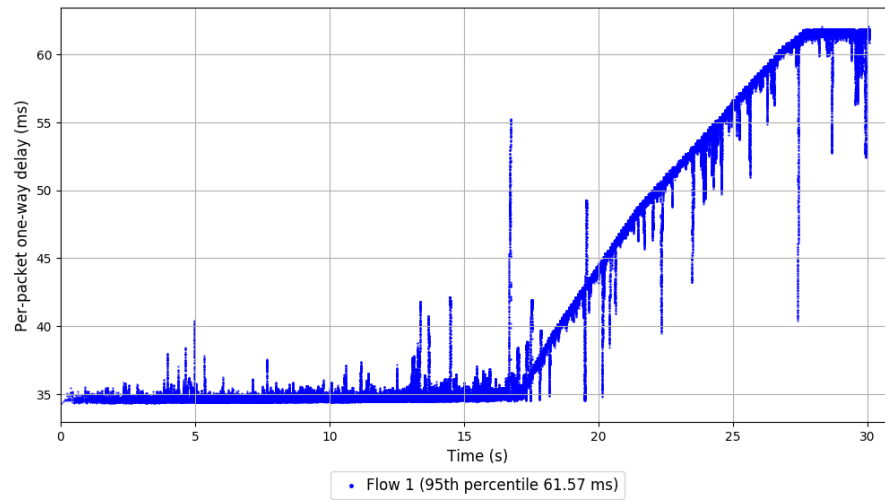
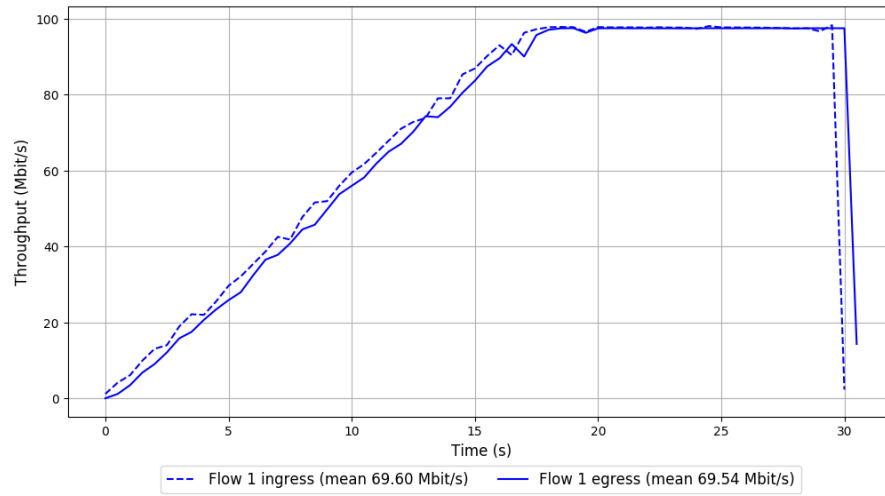


```
Run 1: Statistics of LEDBAT

Start at: 2019-11-23 22:41:48
End at: 2019-11-23 22:42:18
Local clock offset: -22.404 ms
Remote clock offset: 6.261 ms

# Below is generated by plot.py at 2019-11-24 07:08:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.54 Mbit/s
95th percentile per-packet one-way delay: 61.567 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.54 Mbit/s
95th percentile per-packet one-way delay: 61.567 ms
Loss rate: 0.00%
```

# Run 1: Report of LEDBAT — Data Link

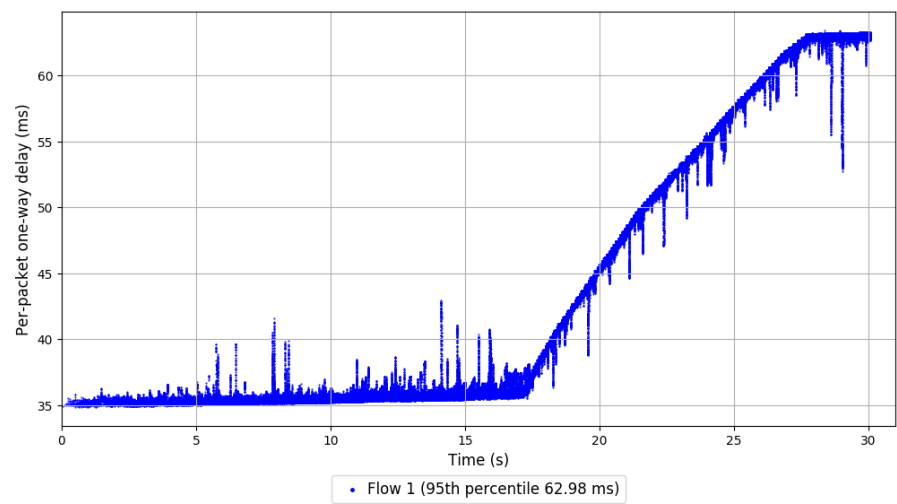
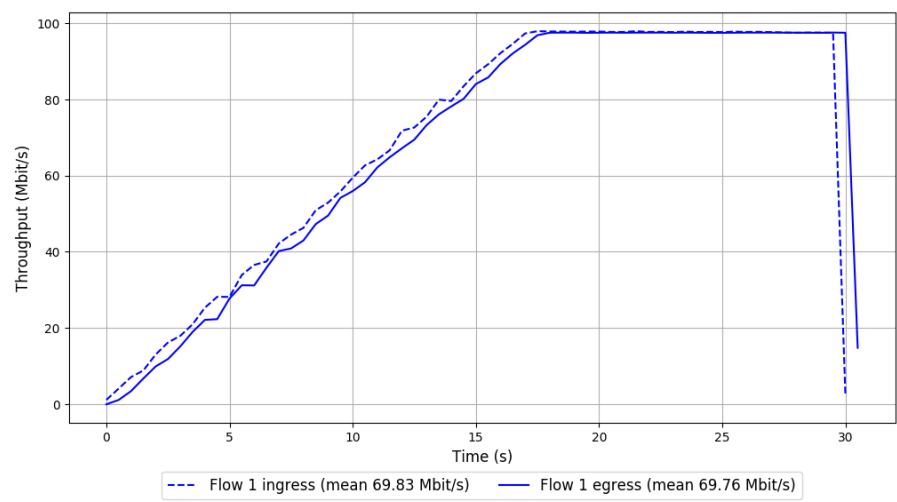


Run 2: Statistics of LEDBAT

Start at: 2019-11-23 23:39:49  
End at: 2019-11-23 23:40:19  
Local clock offset: -25.968 ms  
Remote clock offset: 6.84 ms

# Below is generated by plot.py at 2019-11-24 07:08:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 69.76 Mbit/s  
95th percentile per-packet one-way delay: 62.975 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 69.76 Mbit/s  
95th percentile per-packet one-way delay: 62.975 ms  
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link





Run 3: Statistics of LEDBAT

Start at: 2019-11-24 00:39:46

End at: 2019-11-24 00:40:16

Local clock offset: -5.336 ms

Remote clock offset: 6.043 ms

# Below is generated by plot.py at 2019-11-24 07:08:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 61.51 Mbit/s

95th percentile per-packet one-way delay: 58.967 ms

Loss rate: 0.23%

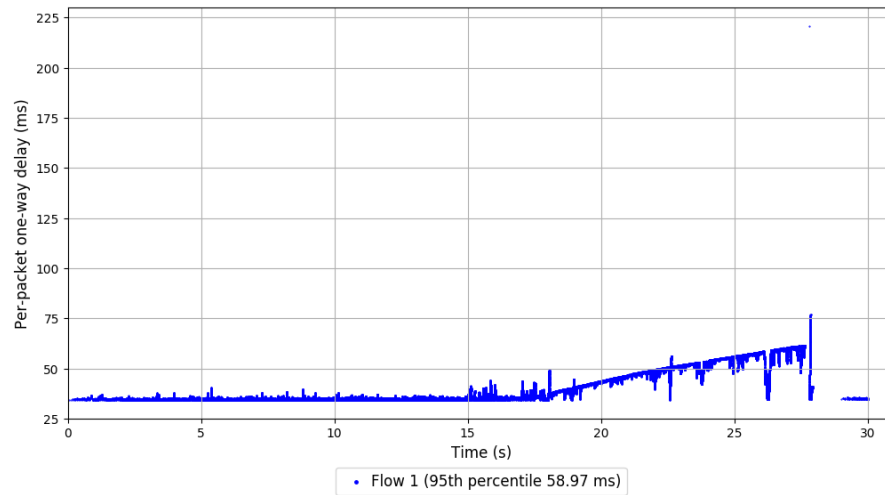
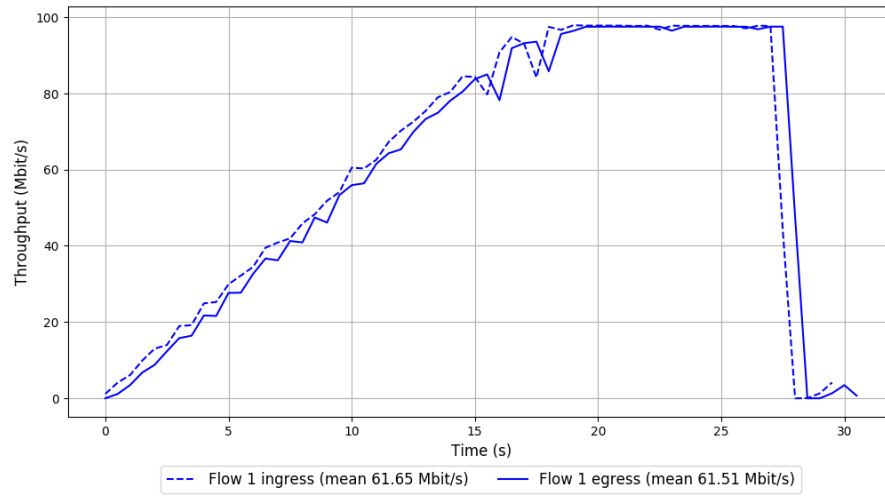
-- Flow 1:

Average throughput: 61.51 Mbit/s

95th percentile per-packet one-way delay: 58.967 ms

Loss rate: 0.23%

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



Run 4: Statistics of LEDBAT

Start at: 2019-11-24 02:01:30

End at: 2019-11-24 02:02:00

Local clock offset: 2.24 ms

Remote clock offset: 5.679 ms

# Below is generated by plot.py at 2019-11-24 07:09:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 68.66 Mbit/s

95th percentile per-packet one-way delay: 60.750 ms

Loss rate: 0.00%

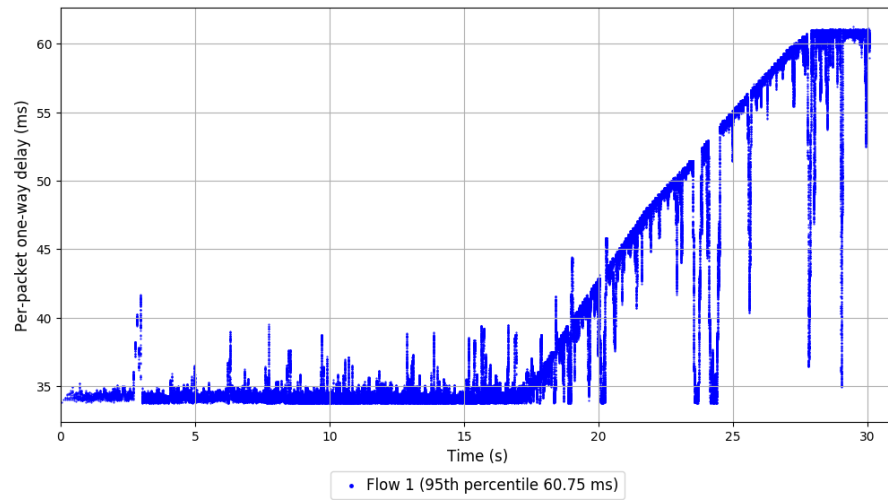
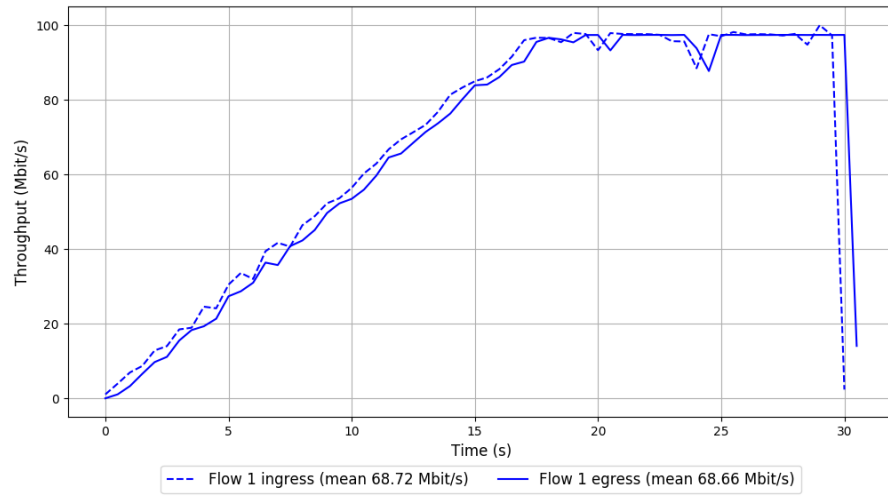
-- Flow 1:

Average throughput: 68.66 Mbit/s

95th percentile per-packet one-way delay: 60.750 ms

Loss rate: 0.00%

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



Run 5: Statistics of LEDBAT

Start at: 2019-11-24 06:09:37

End at: 2019-11-24 06:10:07

Local clock offset: 2.651 ms

Remote clock offset: 4.178 ms

# Below is generated by plot.py at 2019-11-24 07:09:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.30 Mbit/s

95th percentile per-packet one-way delay: 60.763 ms

Loss rate: 0.00%

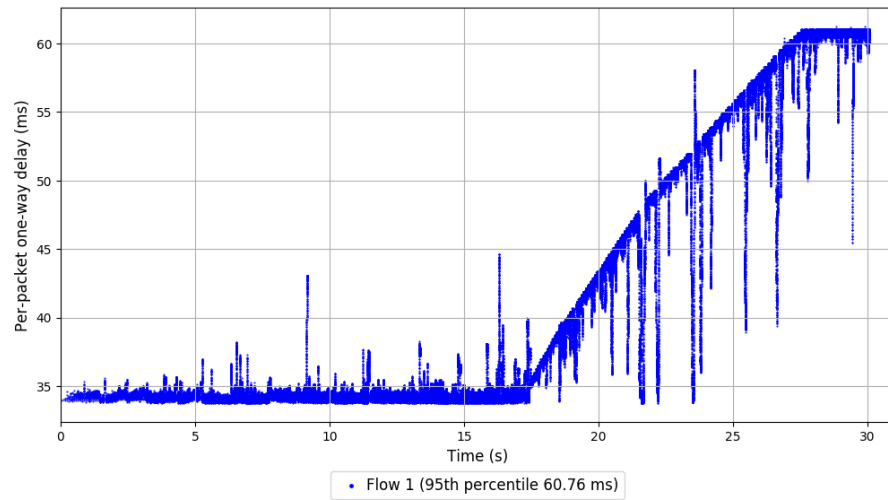
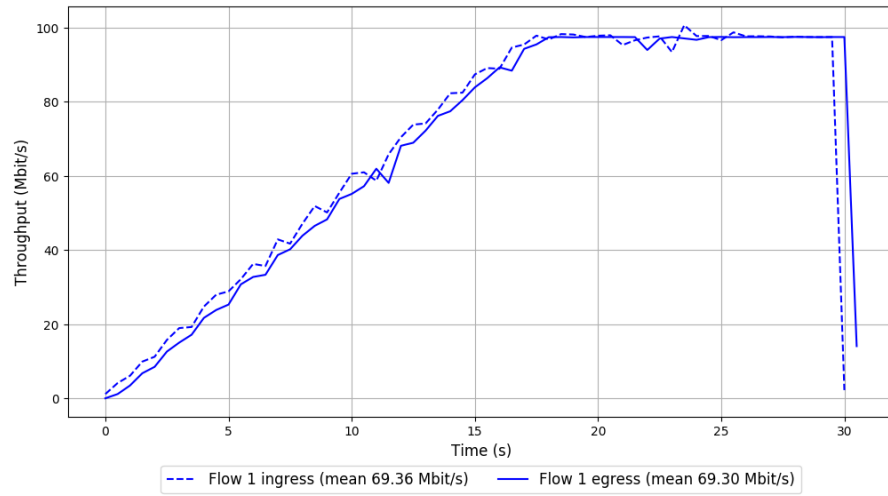
-- Flow 1:

Average throughput: 69.30 Mbit/s

95th percentile per-packet one-way delay: 60.763 ms

Loss rate: 0.00%

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

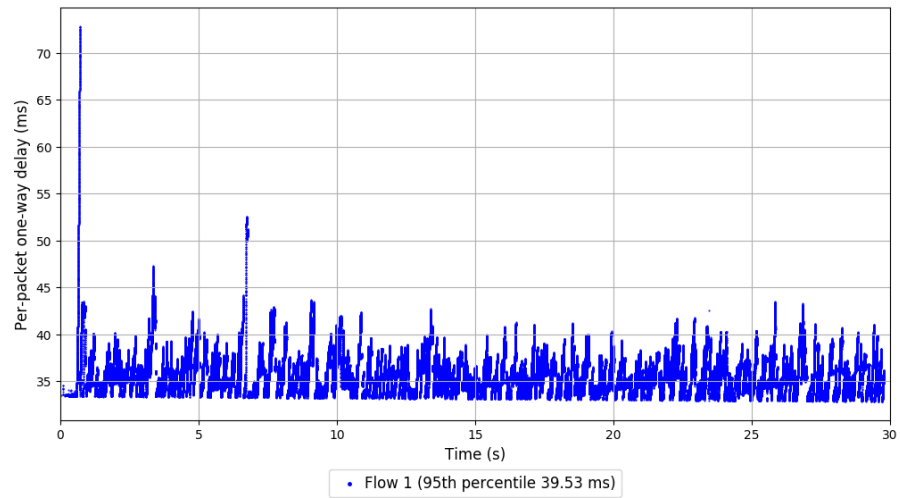
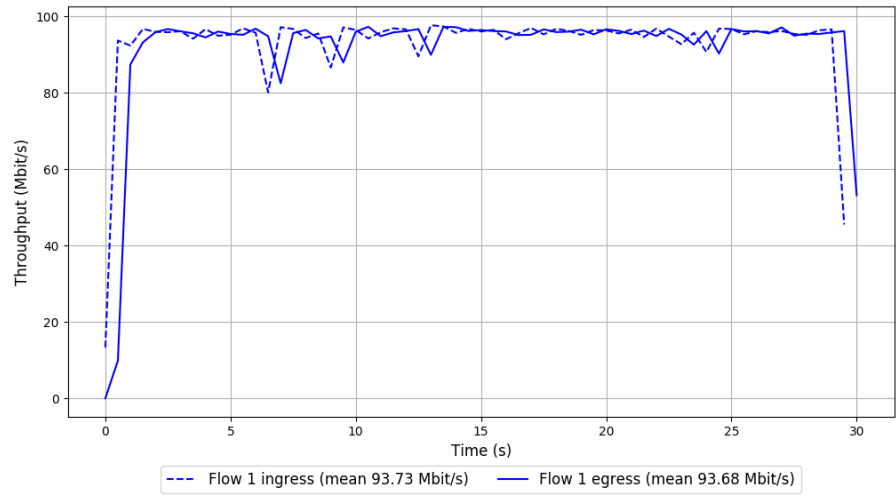


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-11-23 22:53:01
End at: 2019-11-23 22:53:31
Local clock offset: -26.288 ms
Remote clock offset: 6.108 ms

# Below is generated by plot.py at 2019-11-24 07:09:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.68 Mbit/s
95th percentile per-packet one-way delay: 39.533 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 93.68 Mbit/s
95th percentile per-packet one-way delay: 39.533 ms
Loss rate: 0.04%
```

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





Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-11-23 23:48:51

End at: 2019-11-23 23:49:21

Local clock offset: -12.48 ms

Remote clock offset: 6.811 ms

# Below is generated by plot.py at 2019-11-24 07:09:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.68 Mbit/s

95th percentile per-packet one-way delay: 35.858 ms

Loss rate: 0.00%

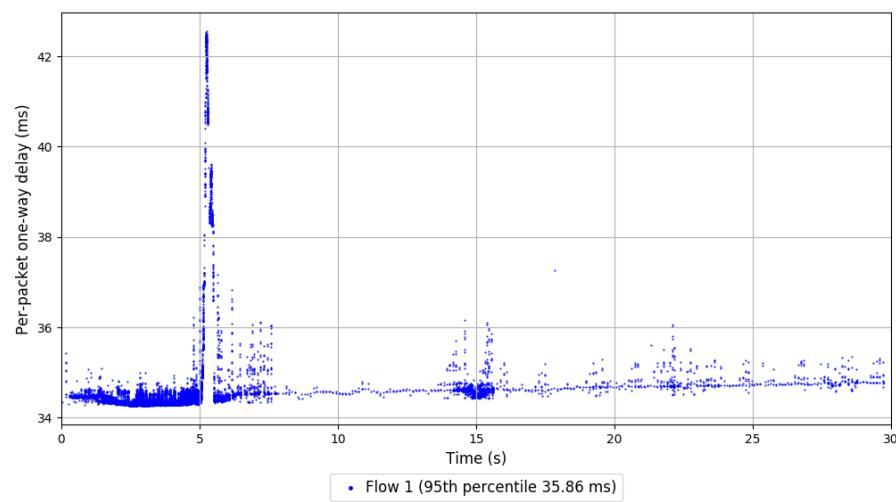
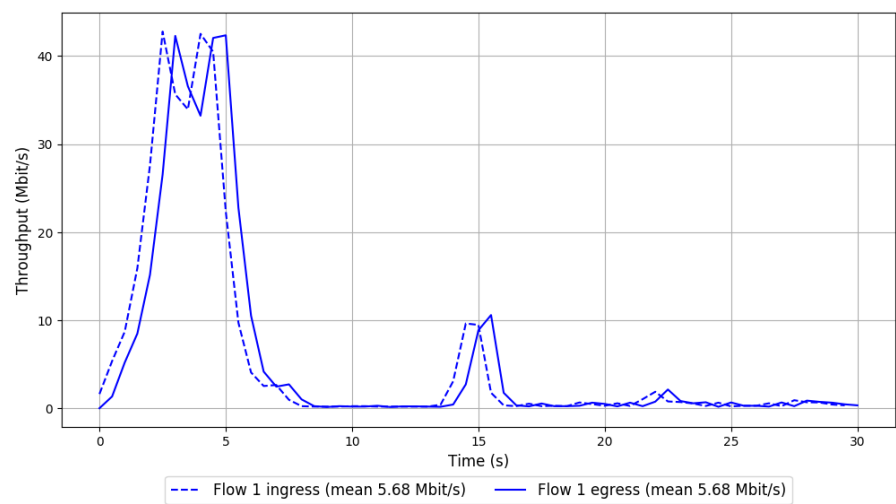
-- Flow 1:

Average throughput: 5.68 Mbit/s

95th percentile per-packet one-way delay: 35.858 ms

Loss rate: 0.00%

Run 2: Report of Muses\_DecisionTree — Data Link



Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 00:50:32

End at: 2019-11-24 00:51:02

Local clock offset: -1.053 ms

Remote clock offset: 6.087 ms

# Below is generated by plot.py at 2019-11-24 07:09:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.67 Mbit/s

95th percentile per-packet one-way delay: 40.496 ms

Loss rate: 0.07%

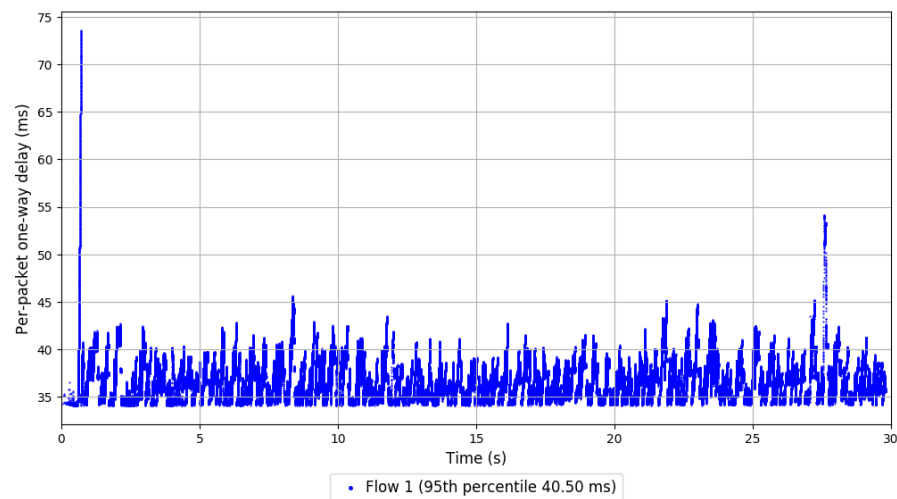
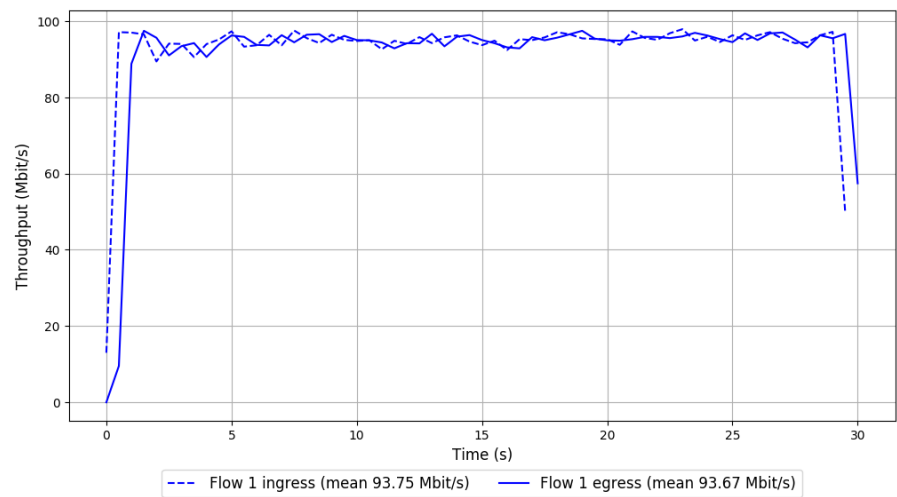
-- Flow 1:

Average throughput: 93.67 Mbit/s

95th percentile per-packet one-way delay: 40.496 ms

Loss rate: 0.07%

Run 3: Report of Muses\_DecisionTree — Data Link



Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 02:46:27

End at: 2019-11-24 02:46:57

Local clock offset: 2.216 ms

Remote clock offset: 3.315 ms

# Below is generated by plot.py at 2019-11-24 07:09:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.67 Mbit/s

95th percentile per-packet one-way delay: 40.256 ms

Loss rate: 0.00%

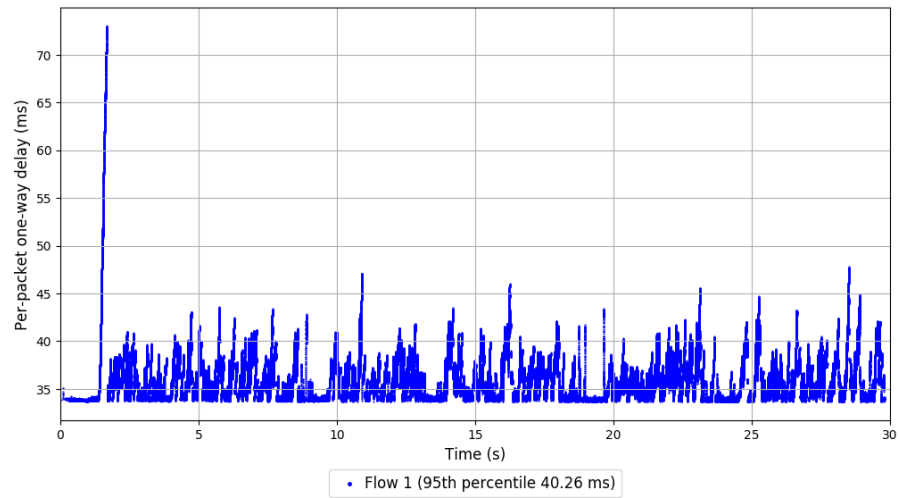
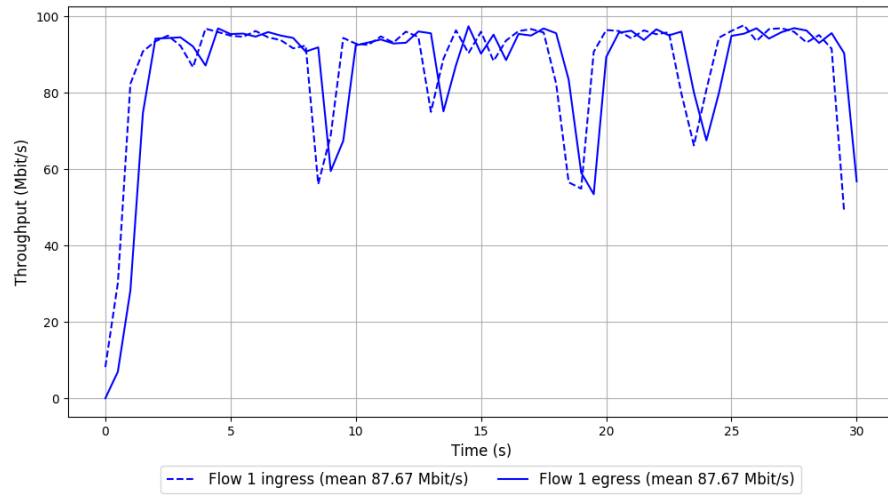
-- Flow 1:

Average throughput: 87.67 Mbit/s

95th percentile per-packet one-way delay: 40.256 ms

Loss rate: 0.00%

#### Run 4: Report of Muses\_DecisionTree — Data Link



Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 06:23:07

End at: 2019-11-24 06:23:37

Local clock offset: 2.529 ms

Remote clock offset: 4.134 ms

# Below is generated by plot.py at 2019-11-24 07:09:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.19 Mbit/s

95th percentile per-packet one-way delay: 39.657 ms

Loss rate: 0.06%

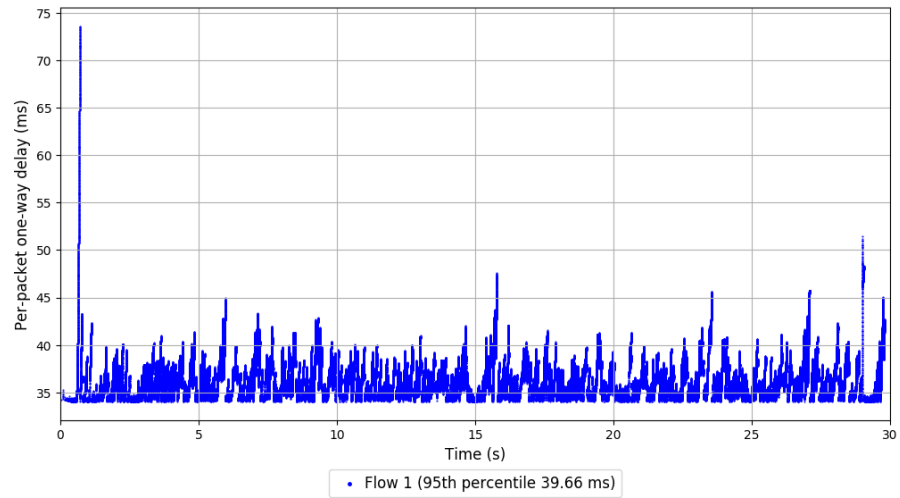
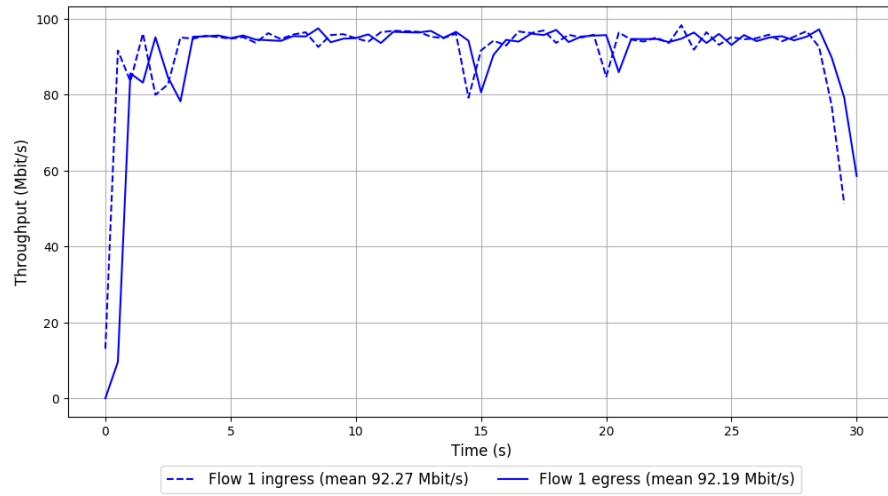
-- Flow 1:

Average throughput: 92.19 Mbit/s

95th percentile per-packet one-way delay: 39.657 ms

Loss rate: 0.06%

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



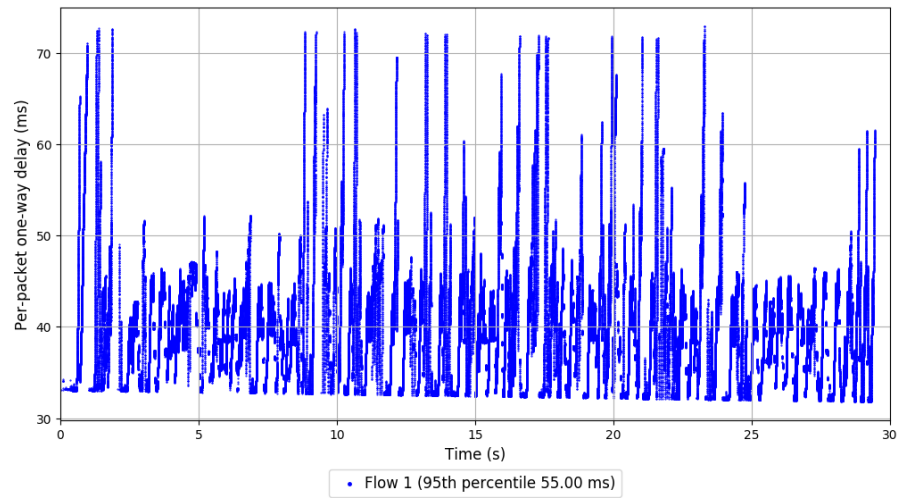
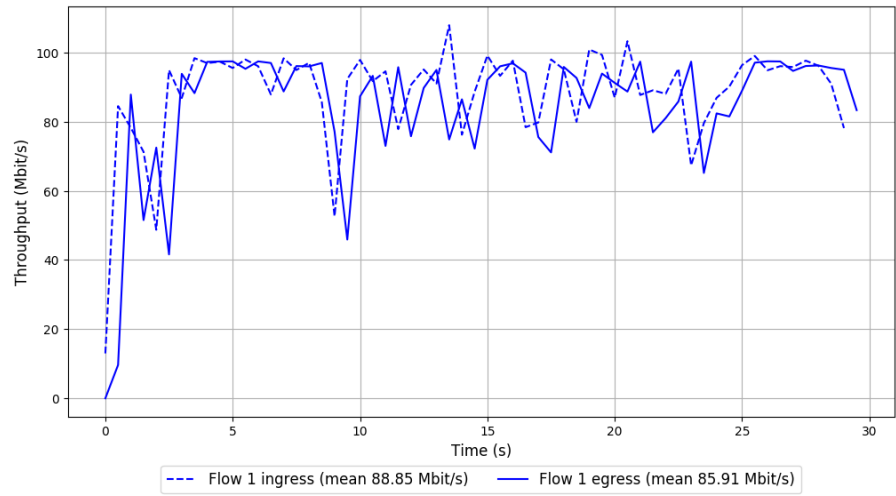


Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-23 22:25:22  
End at: 2019-11-23 22:25:52  
Local clock offset: -17.577 ms  
Remote clock offset: 6.255 ms

# Below is generated by plot.py at 2019-11-24 07:09:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.91 Mbit/s  
95th percentile per-packet one-way delay: 54.996 ms  
Loss rate: 3.22%  
-- Flow 1:  
Average throughput: 85.91 Mbit/s  
95th percentile per-packet one-way delay: 54.996 ms  
Loss rate: 3.22%

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

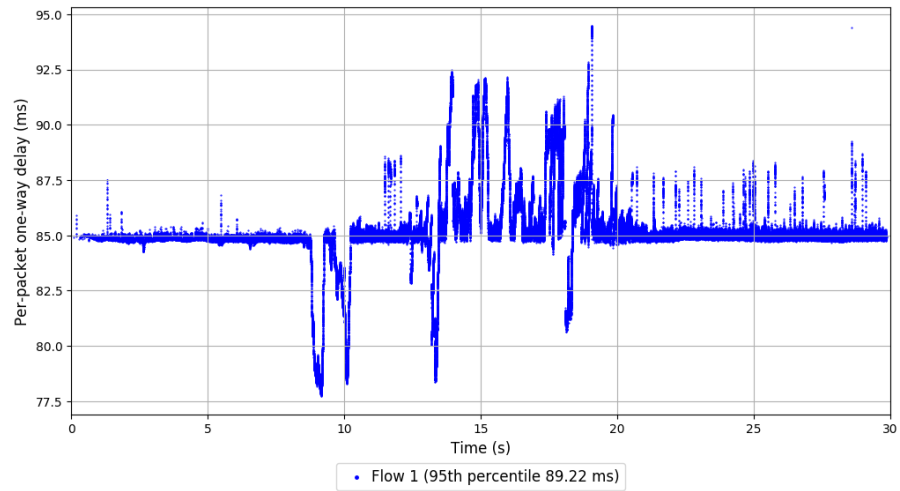
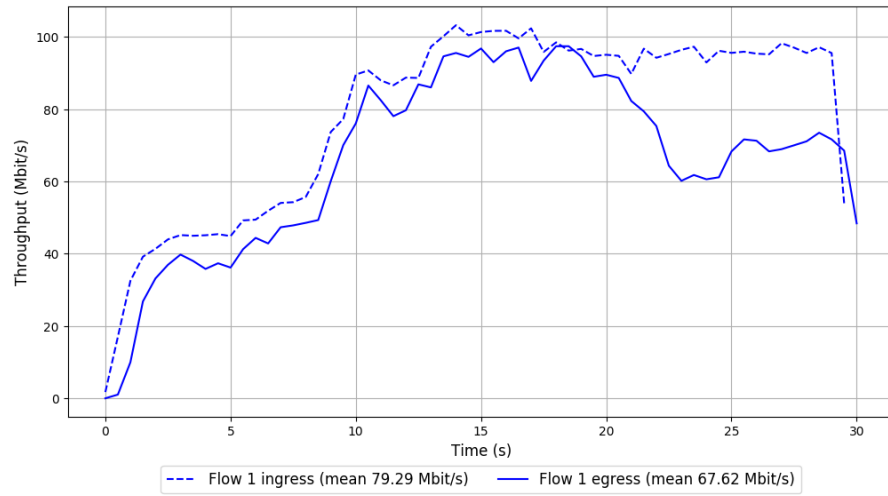


Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-23 23:27:09  
End at: 2019-11-23 23:27:39  
Local clock offset: -20.218 ms  
Remote clock offset: 6.652 ms

# Below is generated by plot.py at 2019-11-24 07:09:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 67.62 Mbit/s  
95th percentile per-packet one-way delay: 89.216 ms  
Loss rate: 14.71%  
-- Flow 1:  
Average throughput: 67.62 Mbit/s  
95th percentile per-packet one-way delay: 89.216 ms  
Loss rate: 14.71%

## Run 2: Report of Muses\_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 00:18:01

End at: 2019-11-24 00:18:31

Local clock offset: -5.721 ms

Remote clock offset: 5.629 ms

# Below is generated by plot.py at 2019-11-24 07:10:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.14 Mbit/s

95th percentile per-packet one-way delay: 54.649 ms

Loss rate: 2.84%

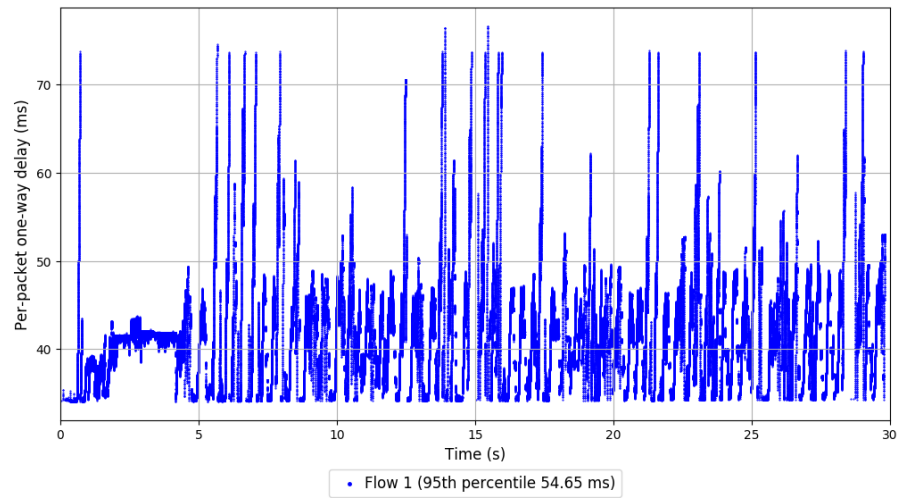
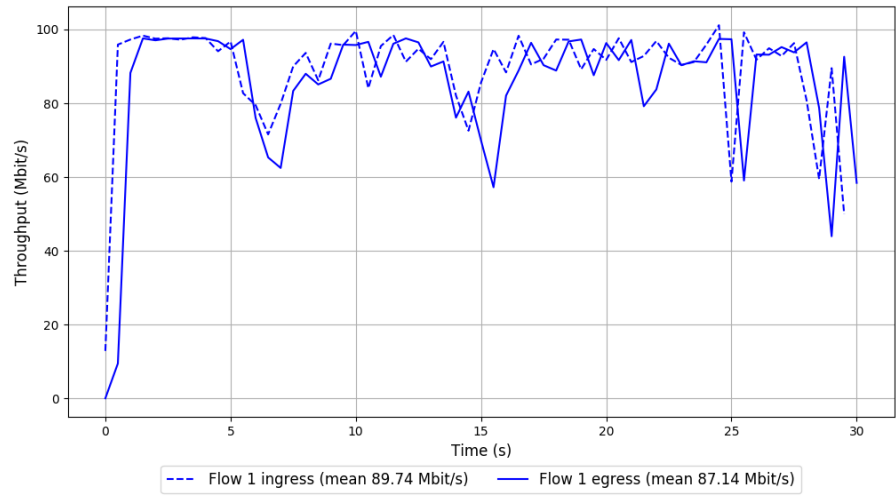
-- Flow 1:

Average throughput: 87.14 Mbit/s

95th percentile per-packet one-way delay: 54.649 ms

Loss rate: 2.84%

### Run 3: Report of Muses\_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 01:28:11

End at: 2019-11-24 01:28:41

Local clock offset: 1.049 ms

Remote clock offset: 5.921 ms

# Below is generated by plot.py at 2019-11-24 07:10:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 77.32 Mbit/s

95th percentile per-packet one-way delay: 54.347 ms

Loss rate: 1.38%

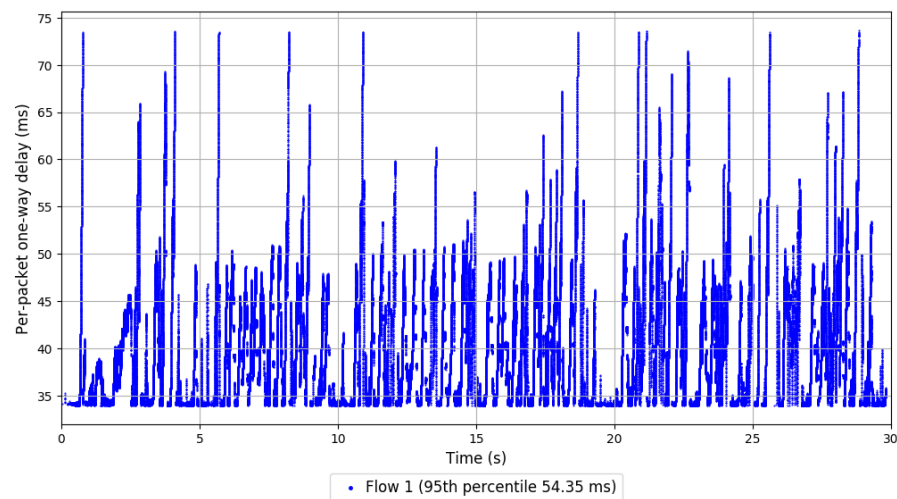
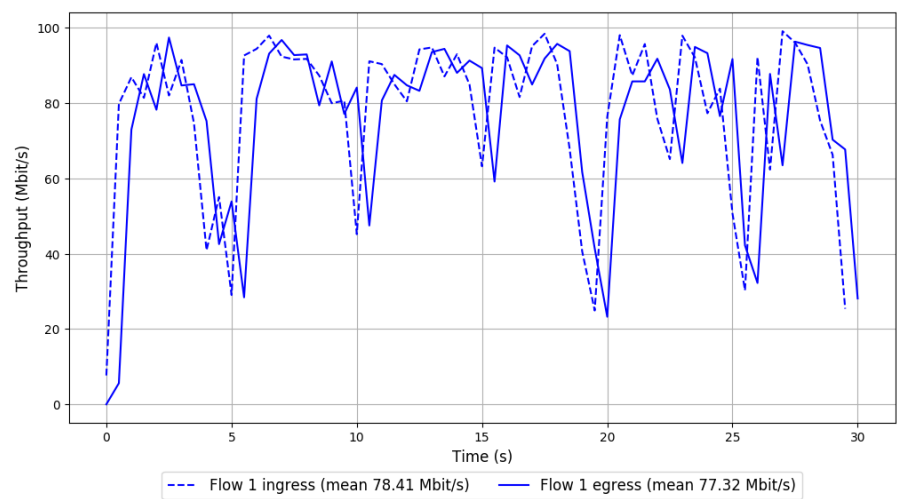
-- Flow 1:

Average throughput: 77.32 Mbit/s

95th percentile per-packet one-way delay: 54.347 ms

Loss rate: 1.38%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link





Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 05:22:20

End at: 2019-11-24 05:22:50

Local clock offset: 2.72 ms

Remote clock offset: 4.146 ms

# Below is generated by plot.py at 2019-11-24 07:10:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.36 Mbit/s

95th percentile per-packet one-way delay: 57.289 ms

Loss rate: 3.40%

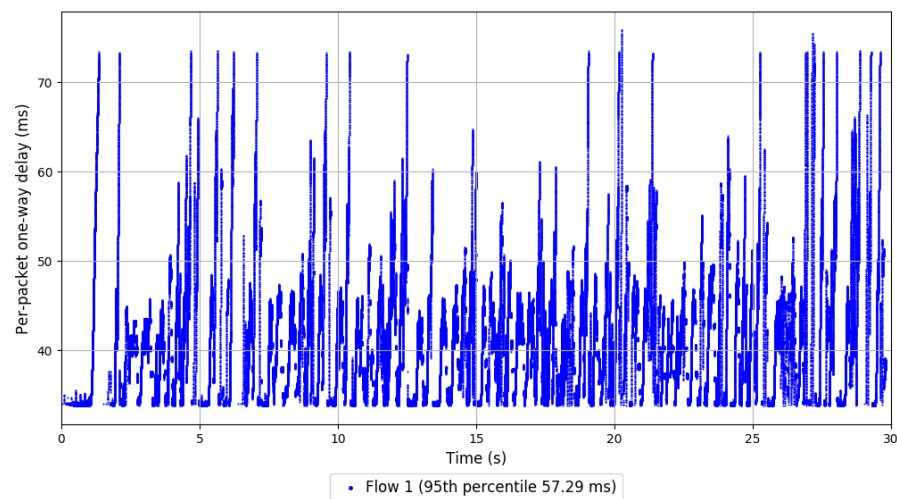
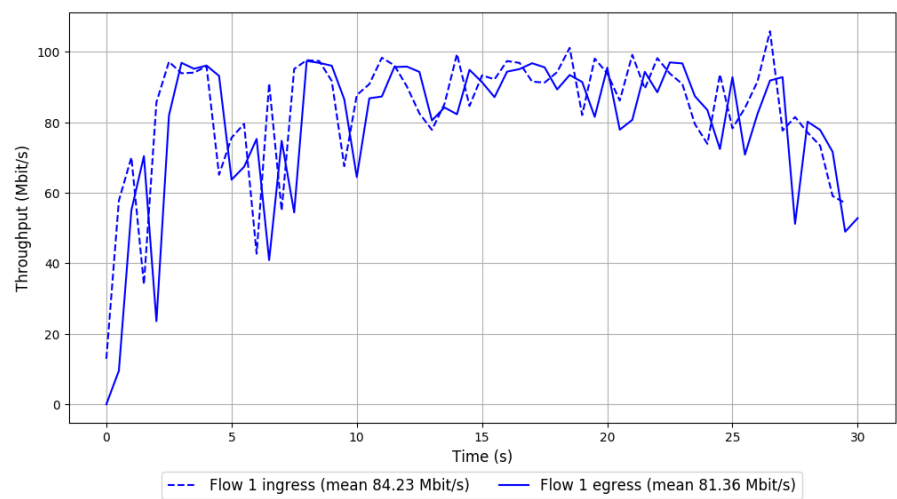
-- Flow 1:

Average throughput: 81.36 Mbit/s

95th percentile per-packet one-way delay: 57.289 ms

Loss rate: 3.40%

Run 5: Report of Muses\_DecisionTreeH0 — Data Link

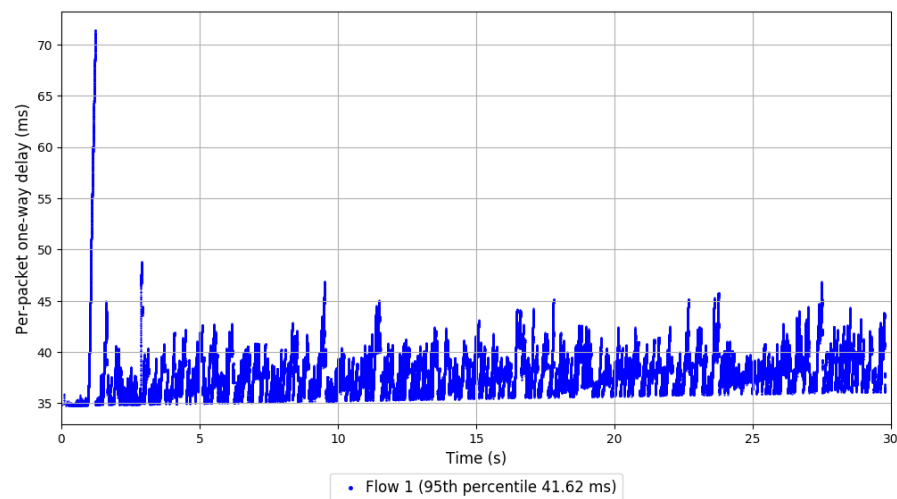
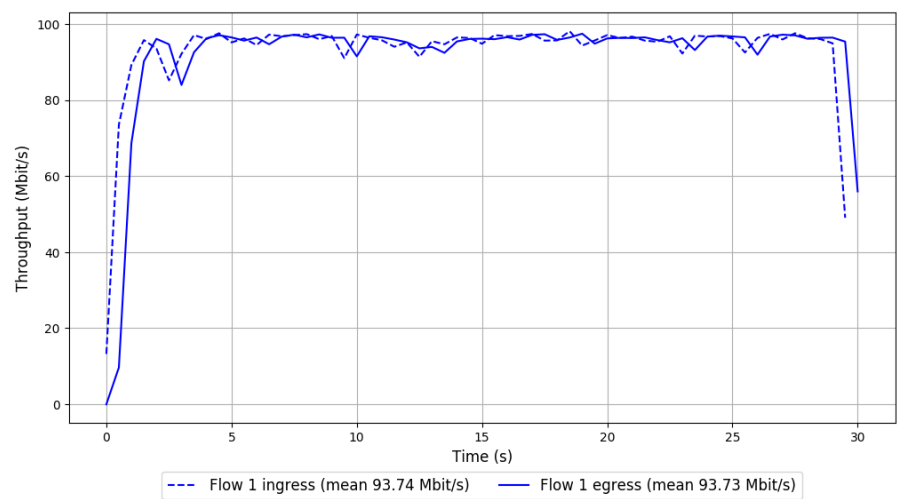


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-11-23 23:13:31
End at: 2019-11-23 23:14:01
Local clock offset: -33.992 ms
Remote clock offset: 6.137 ms

# Below is generated by plot.py at 2019-11-24 07:10:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.73 Mbit/s
95th percentile per-packet one-way delay: 41.618 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 93.73 Mbit/s
95th percentile per-packet one-way delay: 41.618 ms
Loss rate: 0.00%
```

Run 1: Report of Muses\_DecisionTreeR0 — Data Link

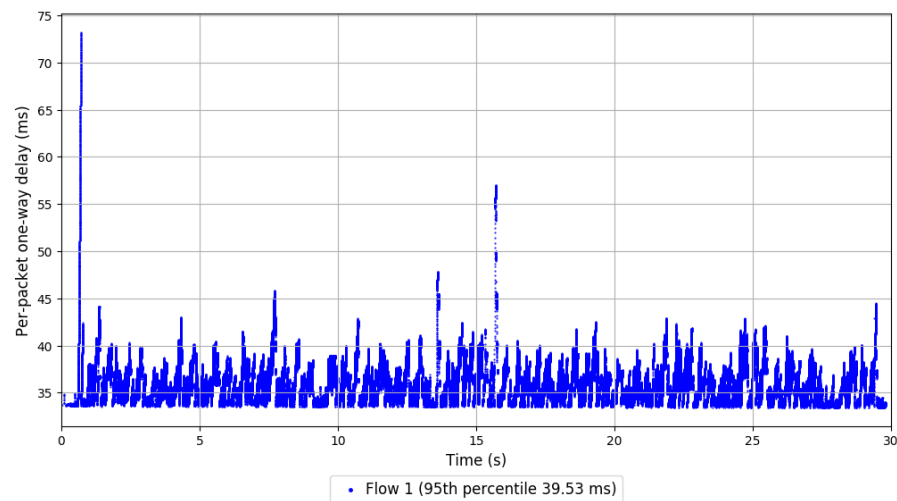
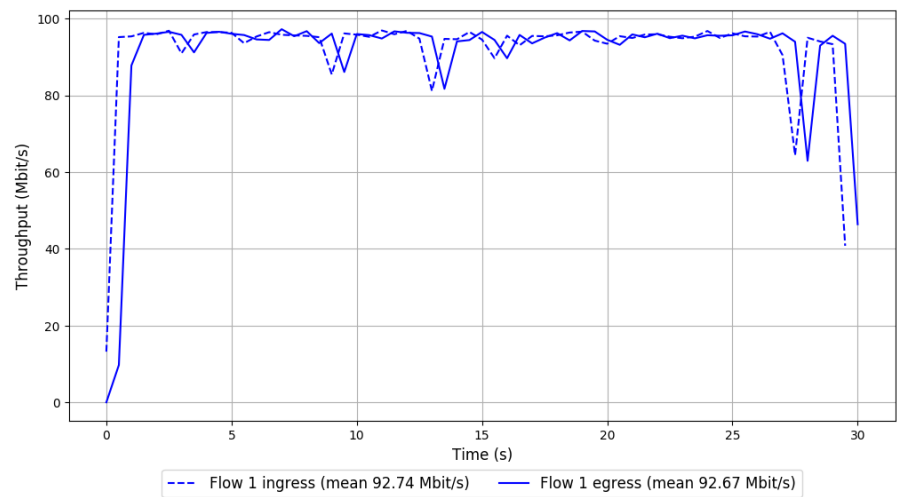


Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 00:05:18  
End at: 2019-11-24 00:05:48  
Local clock offset: -12.525 ms  
Remote clock offset: 5.89 ms

# Below is generated by plot.py at 2019-11-24 07:10:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.67 Mbit/s  
95th percentile per-packet one-way delay: 39.526 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 92.67 Mbit/s  
95th percentile per-packet one-way delay: 39.526 ms  
Loss rate: 0.07%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses\\_DecisionTreeR0

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

End at: 2019-11-24 01:13:14

Local clock offset: -0.483 ms

Remote clock offset: 5.962 ms

# Below is generated by plot.py at 2019-11-24 07:10:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.74 Mbit/s

95th percentile per-packet one-way delay: 40.310 ms

Loss rate: 0.00%

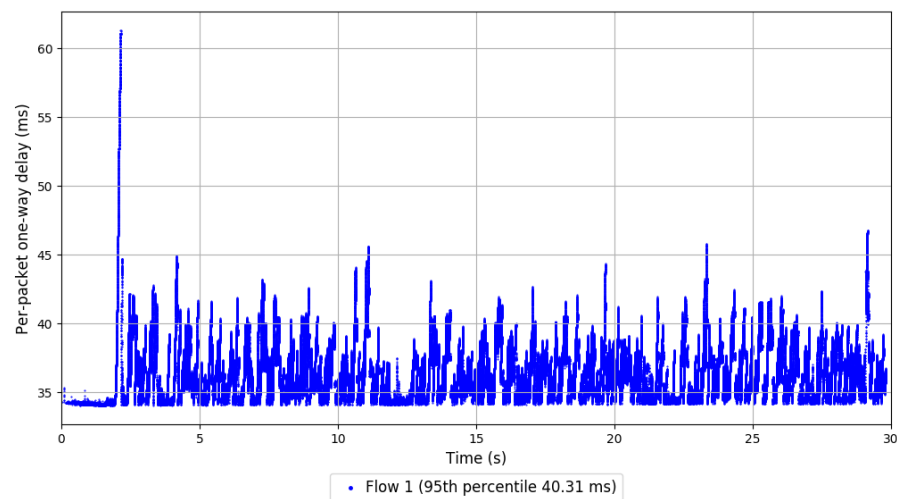
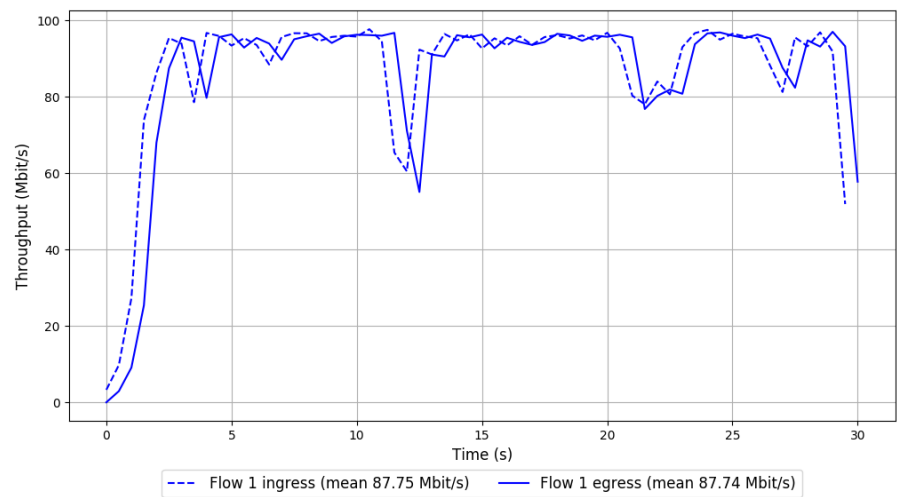
-- Flow 1:

Average throughput: 87.74 Mbit/s

95th percentile per-packet one-way delay: 40.310 ms

Loss rate: 0.00%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link





Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 04:38:17

End at: 2019-11-24 04:38:47

Local clock offset: 3.016 ms

Remote clock offset: 4.144 ms

# Below is generated by plot.py at 2019-11-24 07:11:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.82 Mbit/s

95th percentile per-packet one-way delay: 39.828 ms

Loss rate: 0.00%

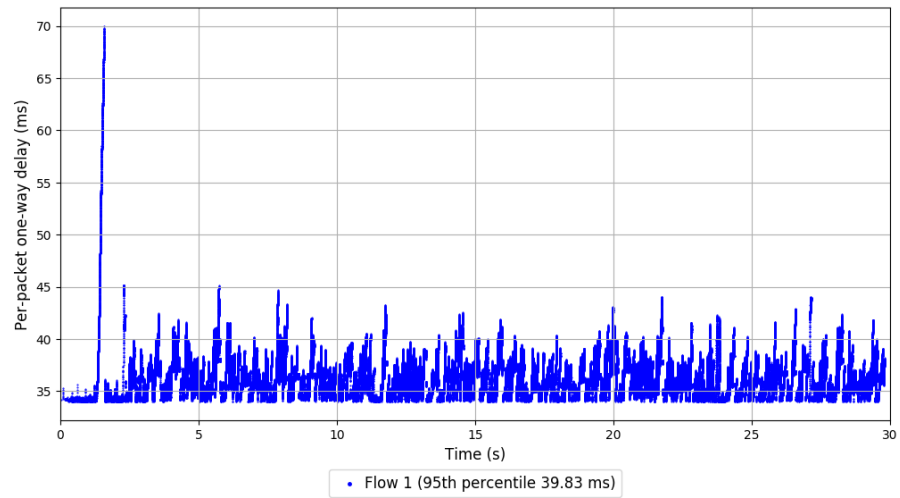
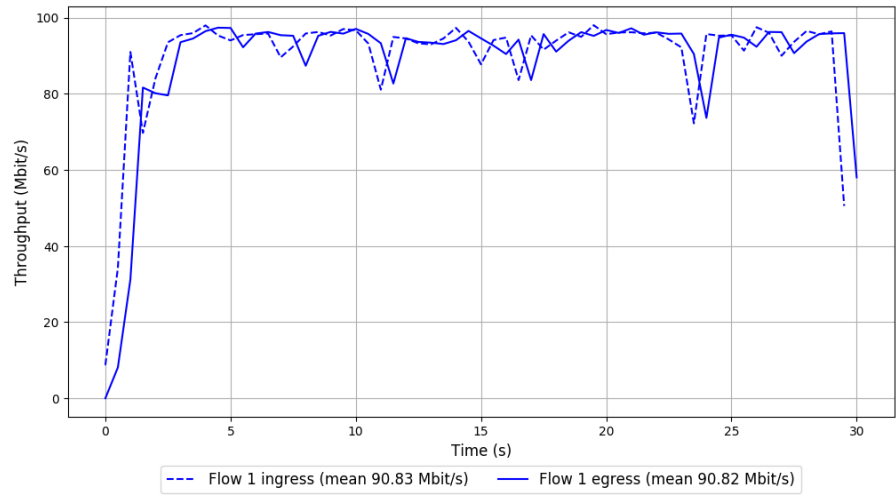
-- Flow 1:

Average throughput: 90.82 Mbit/s

95th percentile per-packet one-way delay: 39.828 ms

Loss rate: 0.00%

#### Run 4: Report of Muses\_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 06:57:05

End at: 2019-11-24 06:57:35

Local clock offset: 2.819 ms

Remote clock offset: 4.37 ms

# Below is generated by plot.py at 2019-11-24 07:11:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.45 Mbit/s

95th percentile per-packet one-way delay: 39.383 ms

Loss rate: 0.08%

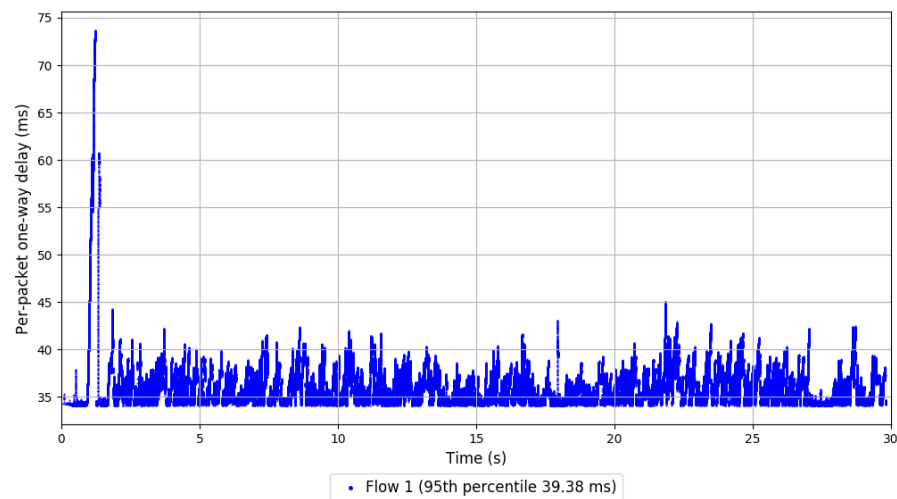
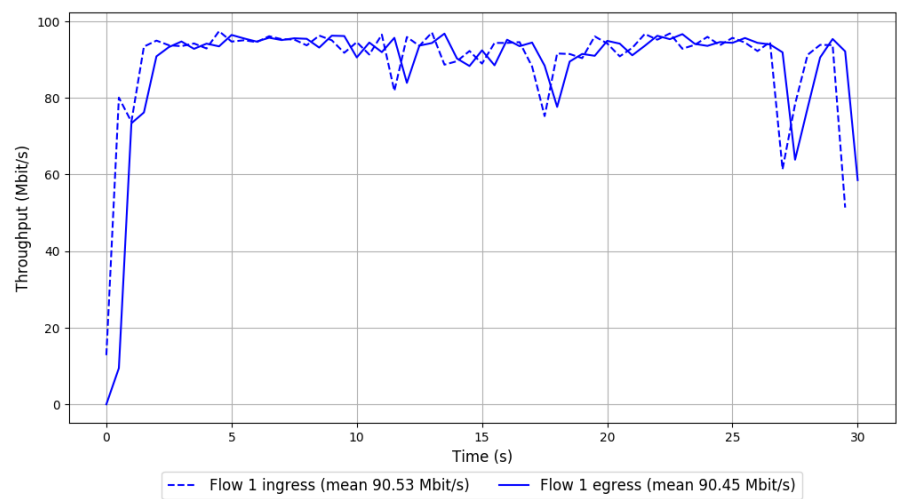
-- Flow 1:

Average throughput: 90.45 Mbit/s

95th percentile per-packet one-way delay: 39.383 ms

Loss rate: 0.08%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link

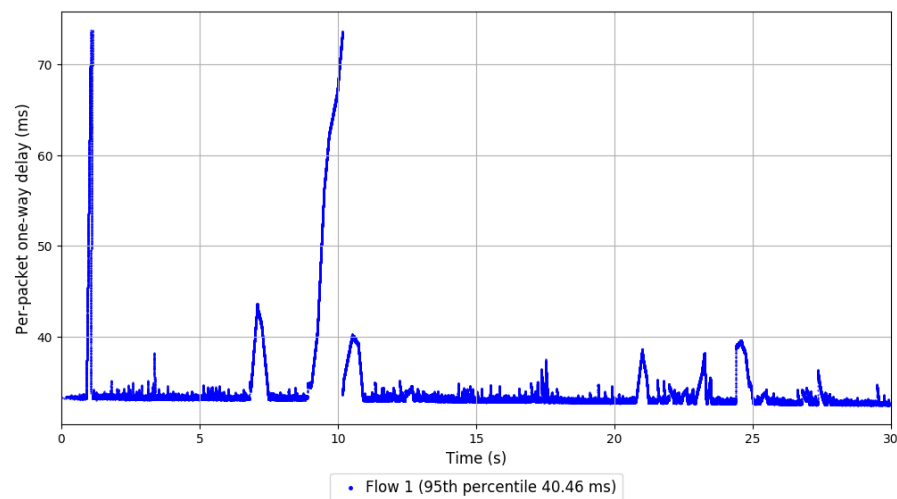
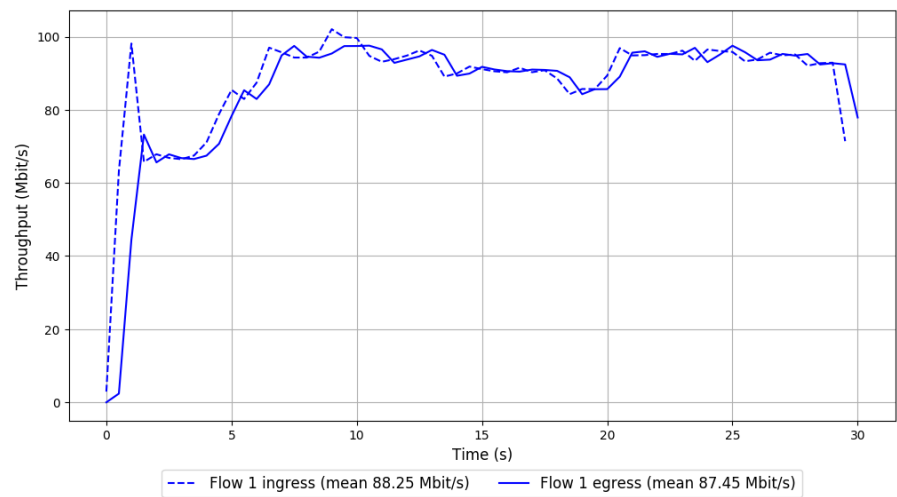


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-11-23 23:01:47
End at: 2019-11-23 23:02:17
Local clock offset: -37.967 ms
Remote clock offset: 6.052 ms

# Below is generated by plot.py at 2019-11-24 07:11:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.45 Mbit/s
95th percentile per-packet one-way delay: 40.456 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 87.45 Mbit/s
95th percentile per-packet one-way delay: 40.456 ms
Loss rate: 0.91%
```

Run 1: Report of PCC-Allegro — Data Link

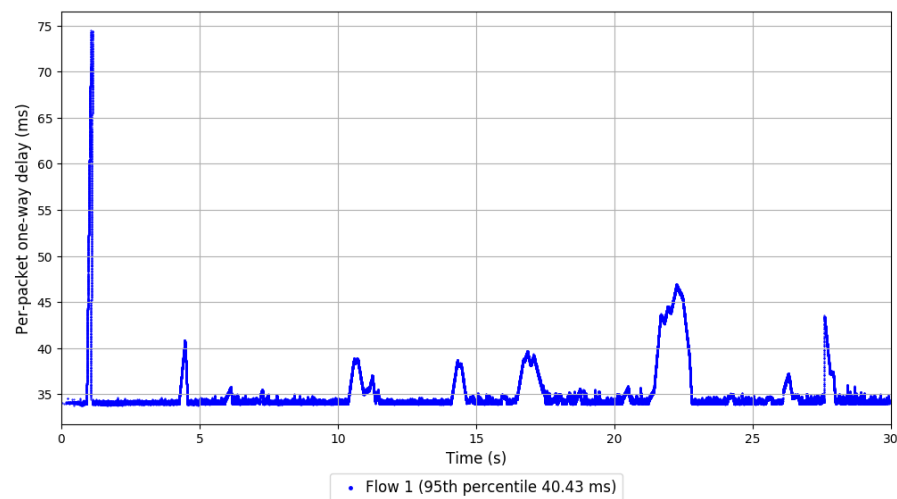
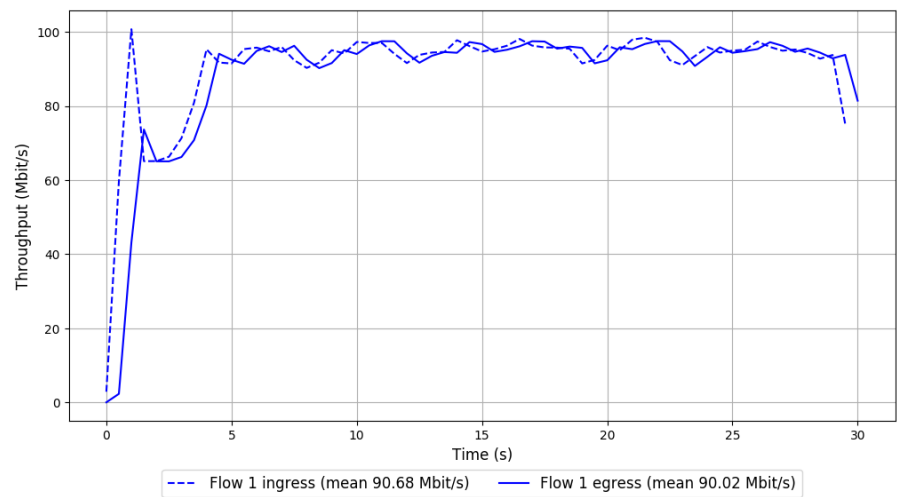


Run 2: Statistics of PCC-Allegro

Start at: 2019-11-23 23:54:34  
End at: 2019-11-23 23:55:04  
Local clock offset: -10.523 ms  
Remote clock offset: 6.4 ms

# Below is generated by plot.py at 2019-11-24 07:11:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.02 Mbit/s  
95th percentile per-packet one-way delay: 40.429 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 90.02 Mbit/s  
95th percentile per-packet one-way delay: 40.429 ms  
Loss rate: 0.73%

Run 2: Report of PCC-Allegro — Data Link





Run 3: Statistics of PCC-Allegro

Start at: 2019-11-24 00:57:57

End at: 2019-11-24 00:58:27

Local clock offset: -0.773 ms

Remote clock offset: 6.0 ms

# Below is generated by plot.py at 2019-11-24 07:11:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.28 Mbit/s

95th percentile per-packet one-way delay: 44.130 ms

Loss rate: 0.95%

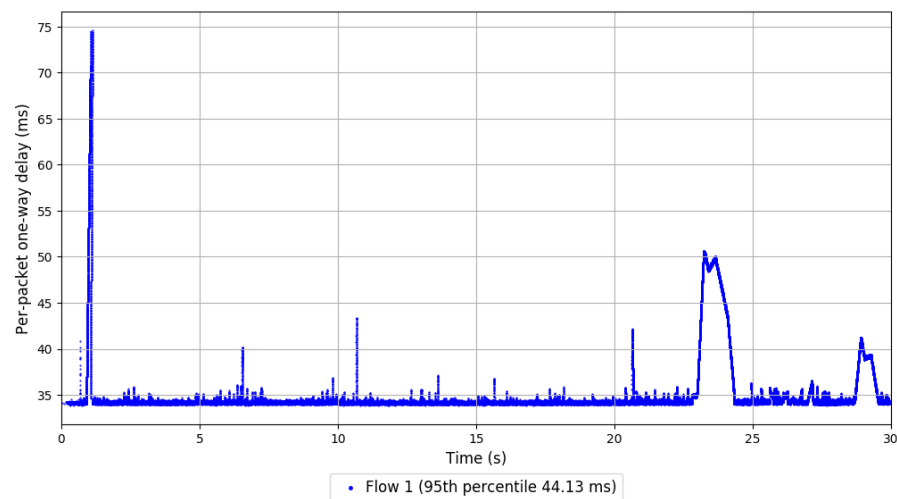
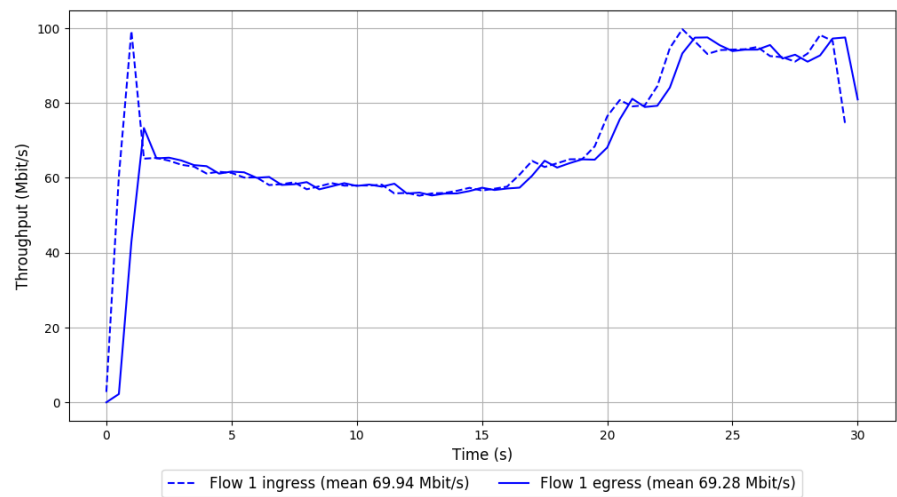
-- Flow 1:

Average throughput: 69.28 Mbit/s

95th percentile per-packet one-way delay: 44.130 ms

Loss rate: 0.95%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-11-24 03:09:27

End at: 2019-11-24 03:09:57

Local clock offset: 1.482 ms

Remote clock offset: 4.086 ms

# Below is generated by plot.py at 2019-11-24 07:12:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.89 Mbit/s

95th percentile per-packet one-way delay: 57.356 ms

Loss rate: 0.90%

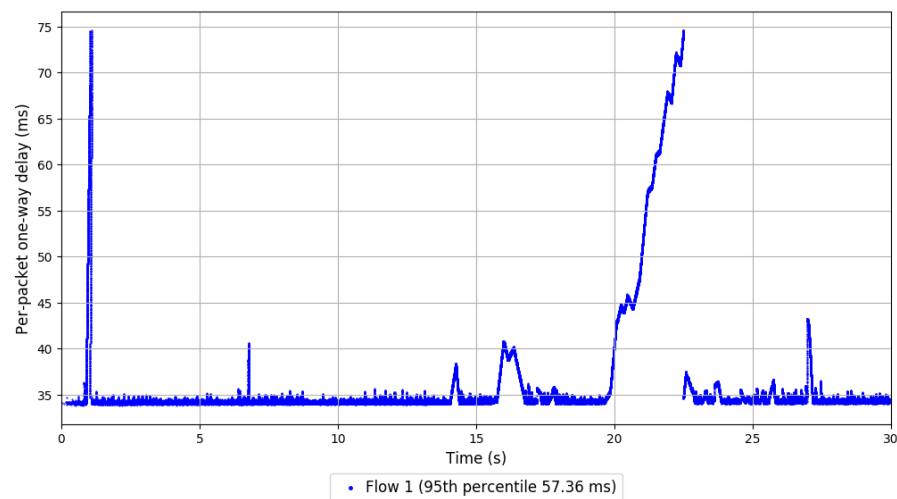
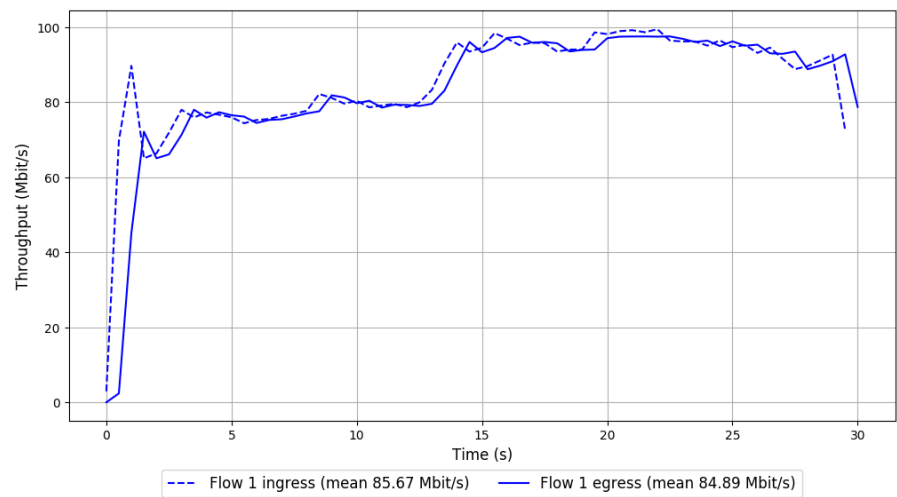
-- Flow 1:

Average throughput: 84.89 Mbit/s

95th percentile per-packet one-way delay: 57.356 ms

Loss rate: 0.90%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-11-24 06:35:54

End at: 2019-11-24 06:36:24

Local clock offset: 2.431 ms

Remote clock offset: 3.983 ms

# Below is generated by plot.py at 2019-11-24 07:12:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 57.31 Mbit/s

95th percentile per-packet one-way delay: 34.256 ms

Loss rate: 0.00%

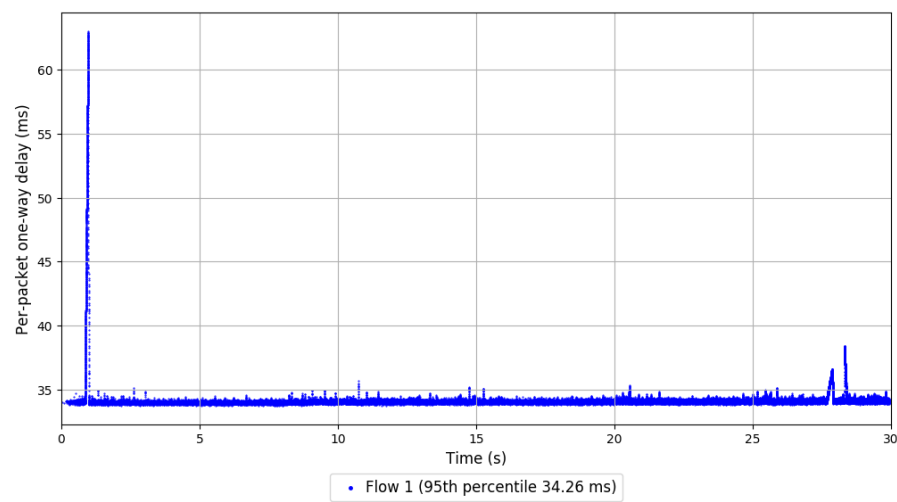
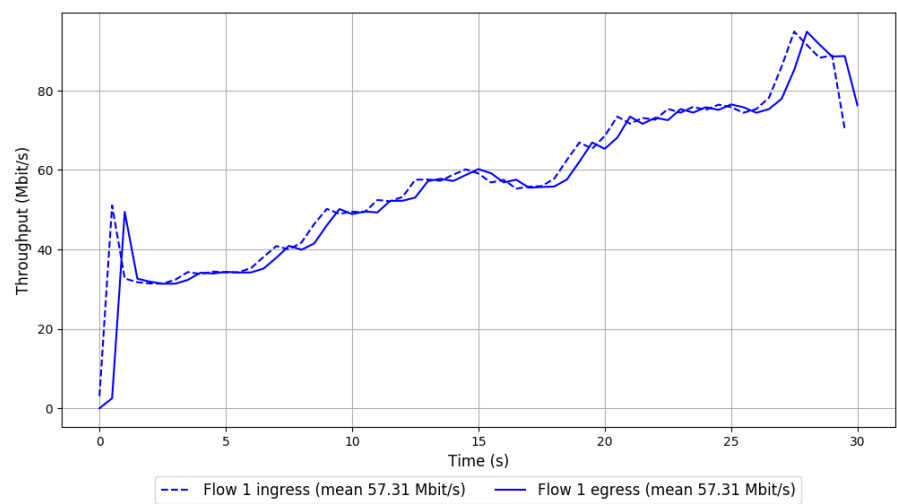
-- Flow 1:

Average throughput: 57.31 Mbit/s

95th percentile per-packet one-way delay: 34.256 ms

Loss rate: 0.00%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

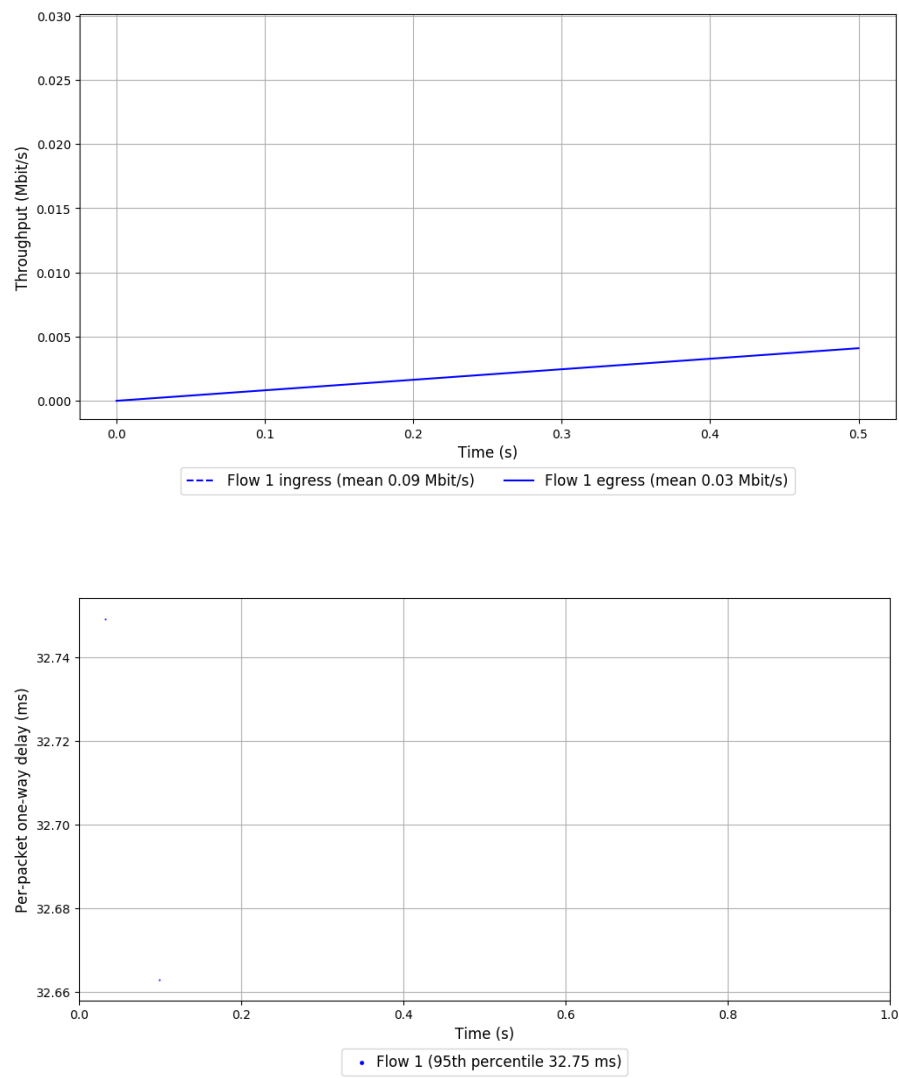
Start at: 2019-11-23 22:13:03

End at: 2019-11-23 22:13:33

Local clock offset: -4.289 ms

Remote clock offset: 6.136 ms

Run 1: Report of PCC-Expr — Data Link





Run 2: Statistics of PCC-Expr

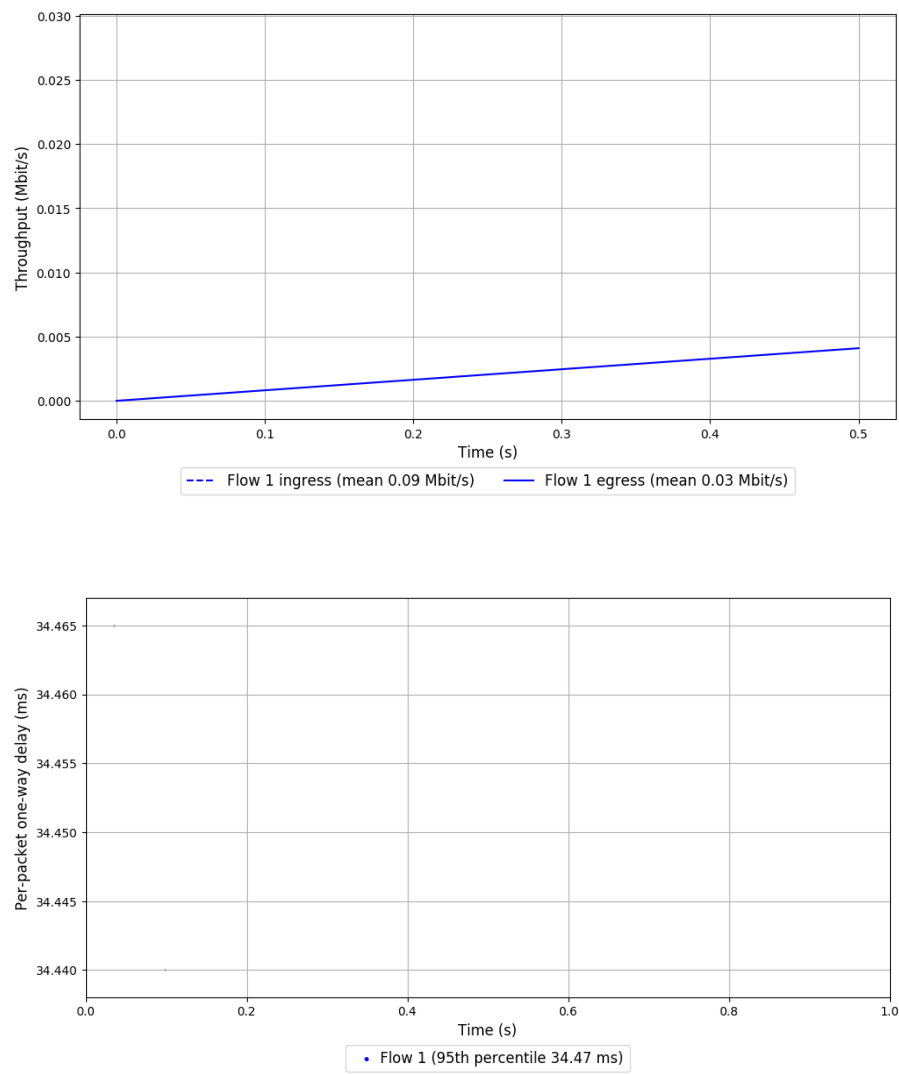
Start at: 2019-11-23 23:17:00

End at: 2019-11-23 23:17:30

Local clock offset: -26.042 ms

Remote clock offset: 6.349 ms

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

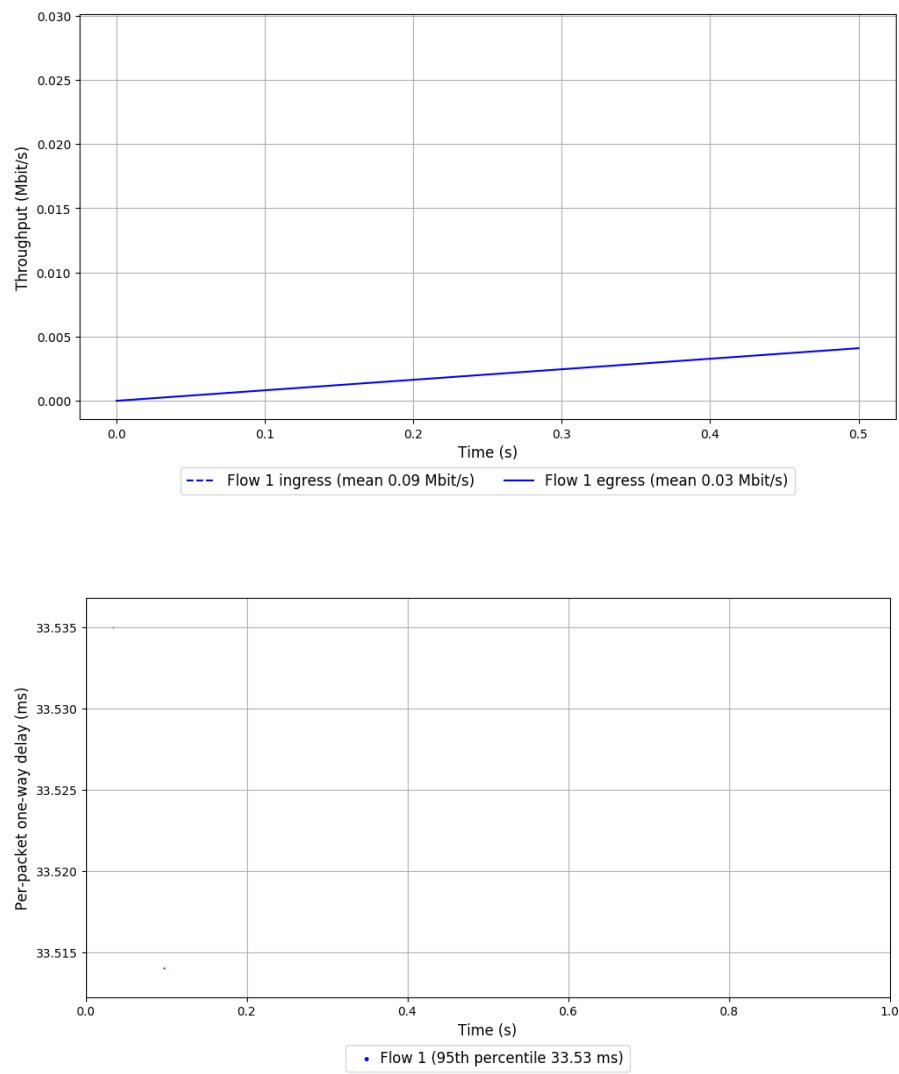
Start at: 2019-11-24 00:07:30

End at: 2019-11-24 00:08:00

Local clock offset: -13.408 ms

Remote clock offset: 5.808 ms

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

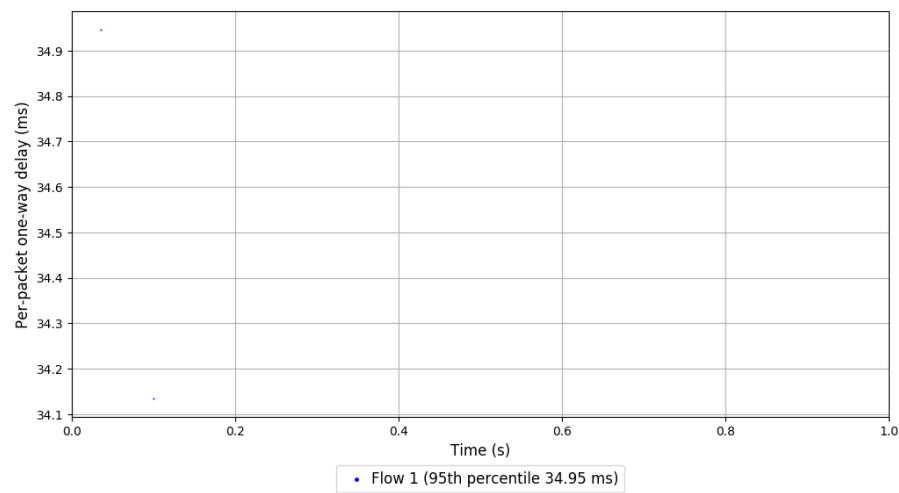
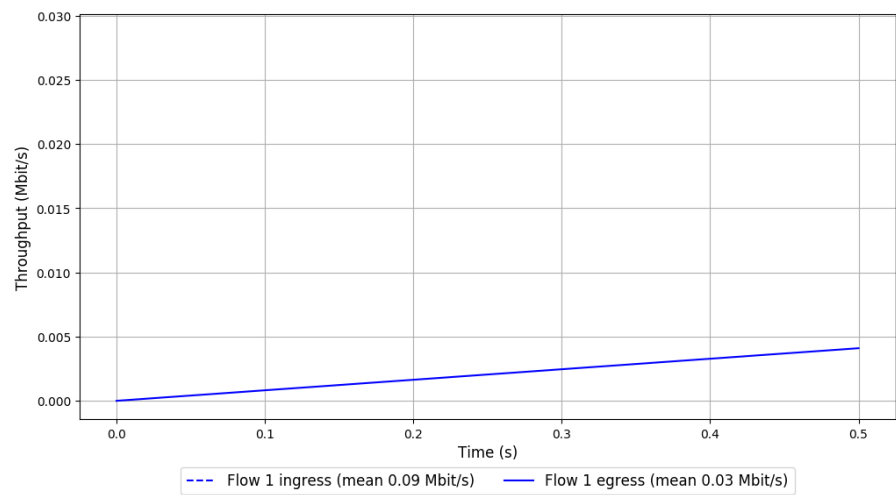
Start at: 2019-11-24 01:15:43

End at: 2019-11-24 01:16:13

Local clock offset: 0.293 ms

Remote clock offset: 6.0 ms

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

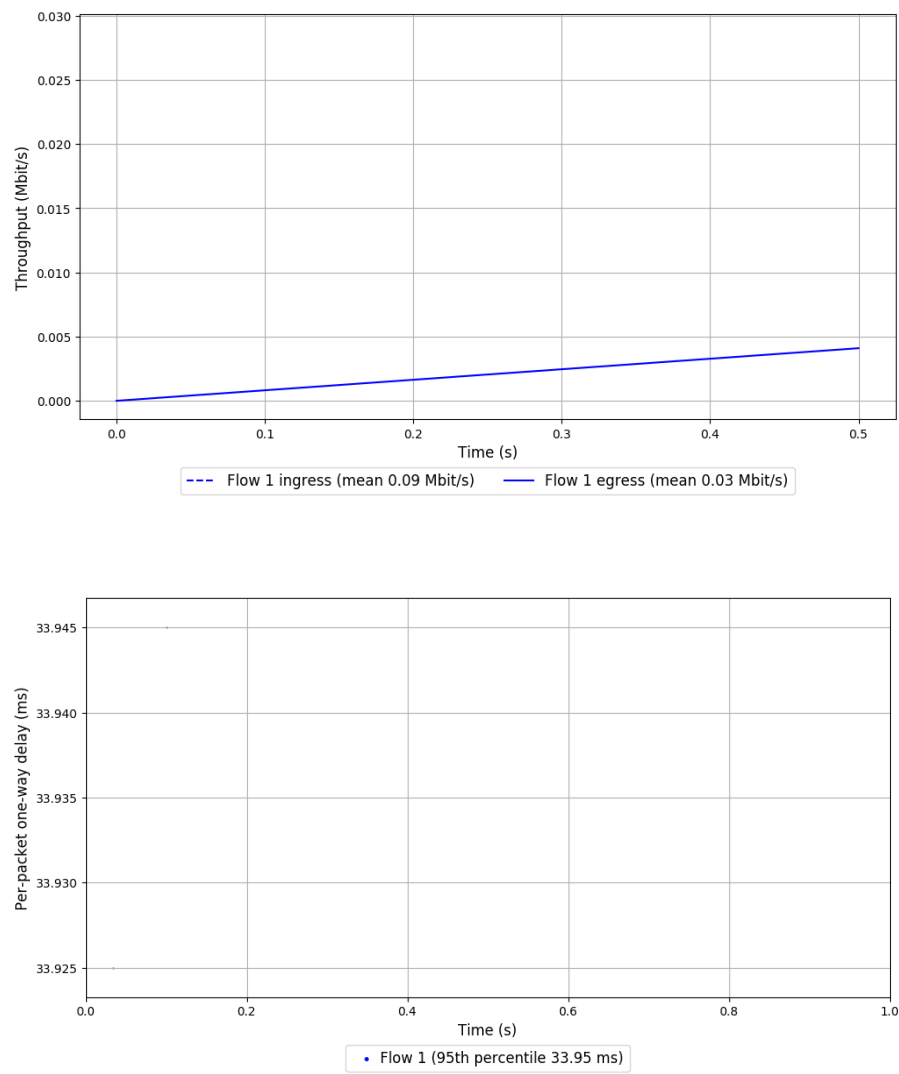
Start at: 2019-11-24 04:56:25

End at: 2019-11-24 04:56:55

Local clock offset: 3.035 ms

Remote clock offset: 3.946 ms

Run 5: Report of PCC-Expr — Data Link



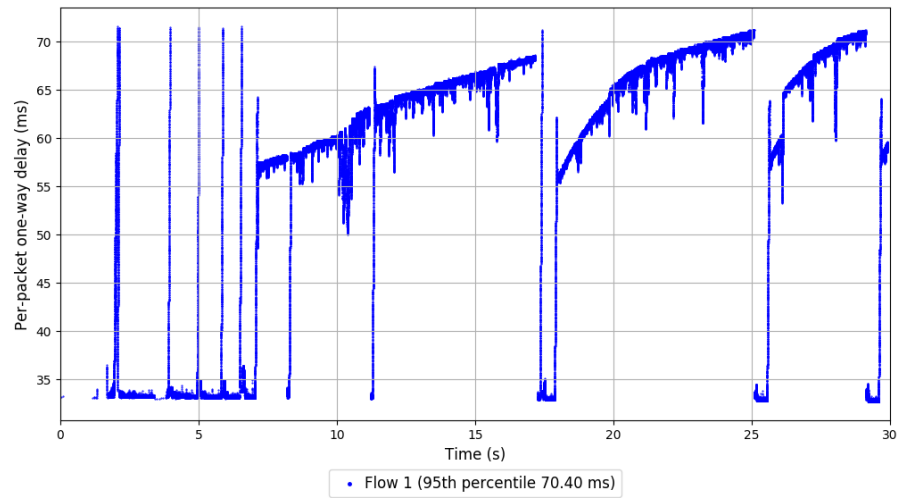
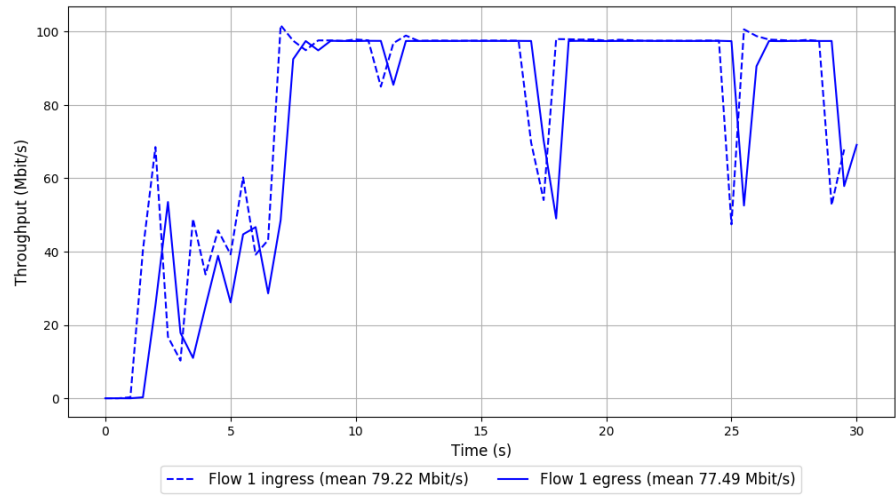


Run 1: Statistics of QUIC Cubic

Start at: 2019-11-23 22:33:01  
End at: 2019-11-23 22:33:31  
Local clock offset: -15.223 ms  
Remote clock offset: 6.167 ms

# Below is generated by plot.py at 2019-11-24 07:12:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 77.49 Mbit/s  
95th percentile per-packet one-way delay: 70.396 ms  
Loss rate: 2.10%  
-- Flow 1:  
Average throughput: 77.49 Mbit/s  
95th percentile per-packet one-way delay: 70.396 ms  
Loss rate: 2.10%

# Run 1: Report of QUIC Cubic — Data Link

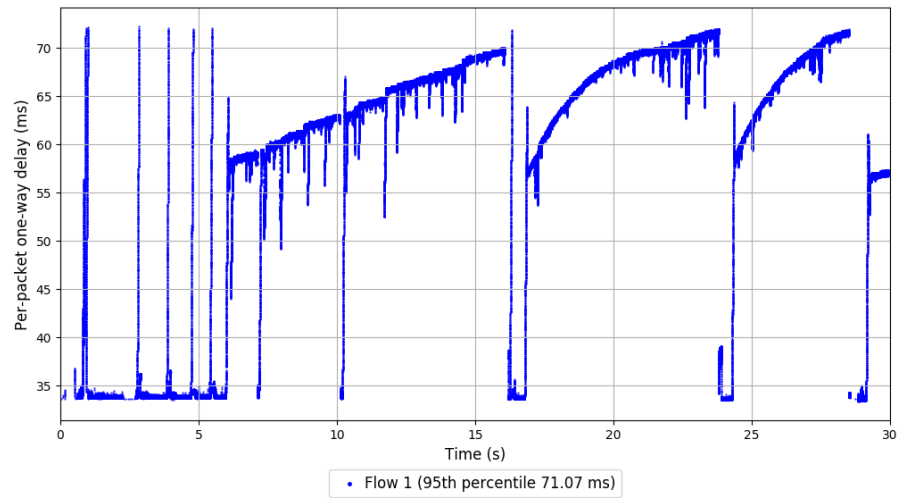
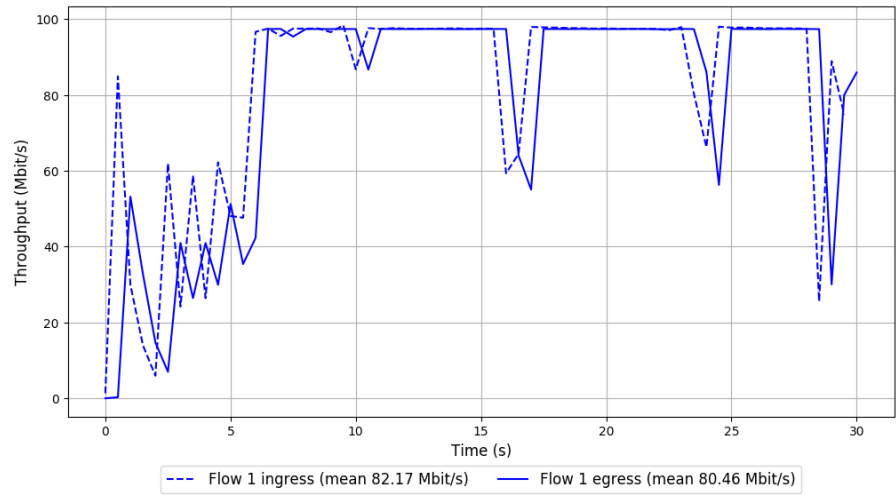


Run 2: Statistics of QUIC Cubic

Start at: 2019-11-23 23:31:51  
End at: 2019-11-23 23:32:21  
Local clock offset: -21.894 ms  
Remote clock offset: 6.771 ms

# Below is generated by plot.py at 2019-11-24 07:12:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.46 Mbit/s  
95th percentile per-packet one-way delay: 71.070 ms  
Loss rate: 2.01%  
-- Flow 1:  
Average throughput: 80.46 Mbit/s  
95th percentile per-packet one-way delay: 71.070 ms  
Loss rate: 2.01%

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



Run 3: Statistics of QUIC Cubic

Start at: 2019-11-24 00:28:35

End at: 2019-11-24 00:29:05

Local clock offset: -3.891 ms

Remote clock offset: 5.883 ms

# Below is generated by plot.py at 2019-11-24 07:12:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.72 Mbit/s

95th percentile per-packet one-way delay: 70.314 ms

Loss rate: 1.85%

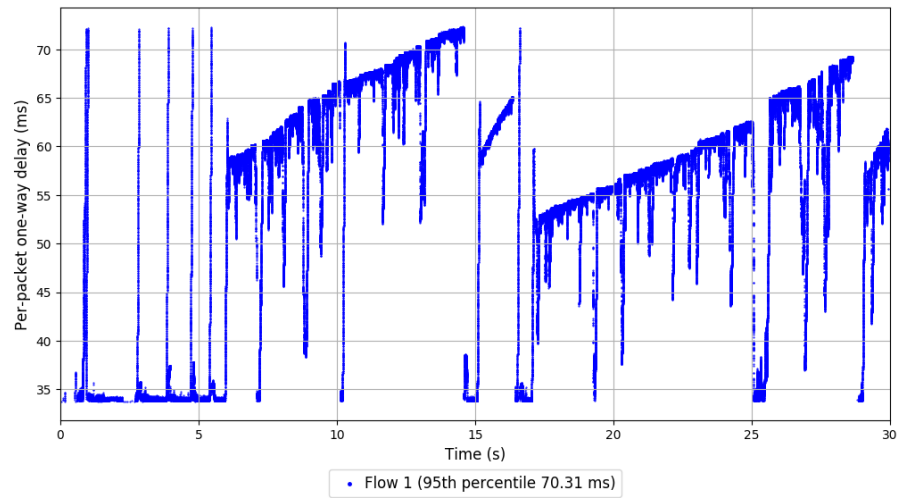
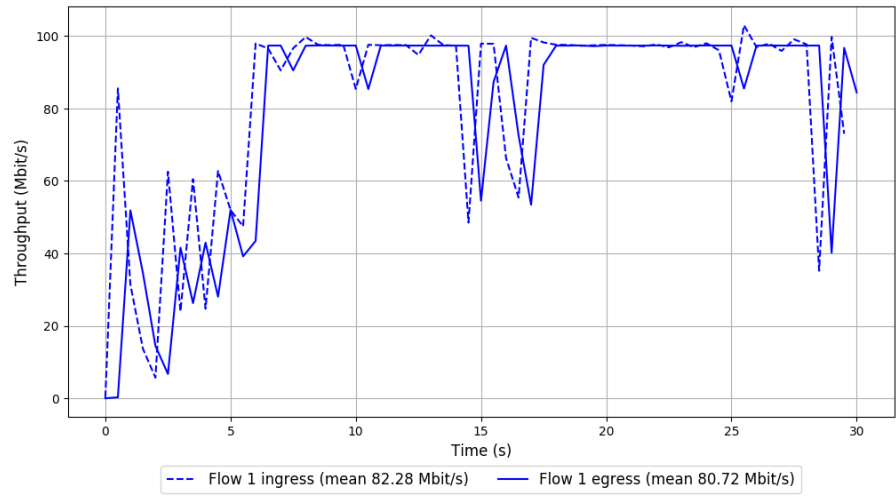
-- Flow 1:

Average throughput: 80.72 Mbit/s

95th percentile per-packet one-way delay: 70.314 ms

Loss rate: 1.85%

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



Run 4: Statistics of QUIC Cubic

Start at: 2019-11-24 01:40:09

End at: 2019-11-24 01:40:39

Local clock offset: 0.65 ms

Remote clock offset: 5.761 ms

# Below is generated by plot.py at 2019-11-24 07:12:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.98 Mbit/s

95th percentile per-packet one-way delay: 70.278 ms

Loss rate: 1.08%

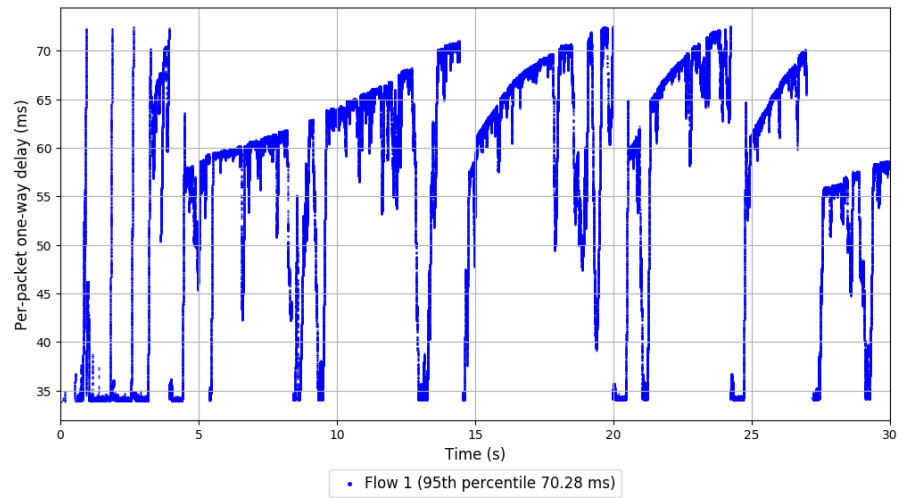
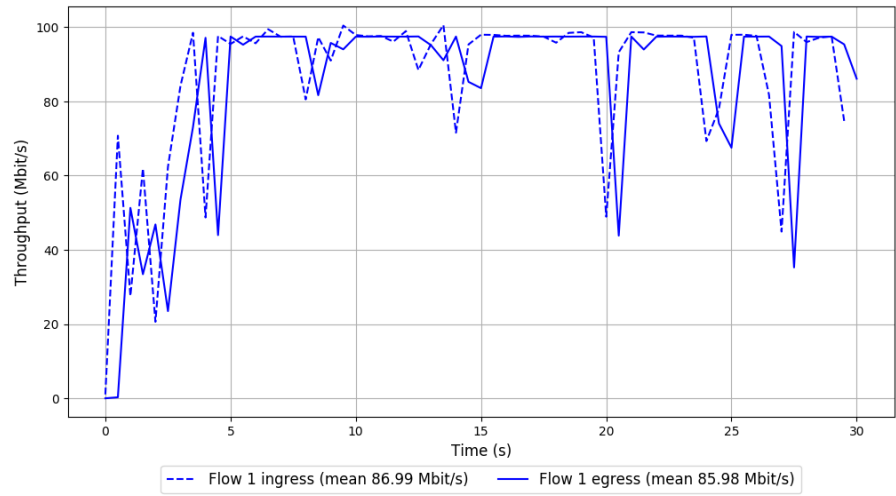
-- Flow 1:

Average throughput: 85.98 Mbit/s

95th percentile per-packet one-way delay: 70.278 ms

Loss rate: 1.08%

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





Run 5: Statistics of QUIC Cubic

Start at: 2019-11-24 05:41:51

End at: 2019-11-24 05:42:21

Local clock offset: 2.59 ms

Remote clock offset: 4.305 ms

# Below is generated by plot.py at 2019-11-24 07:12:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.83 Mbit/s

95th percentile per-packet one-way delay: 71.449 ms

Loss rate: 1.88%

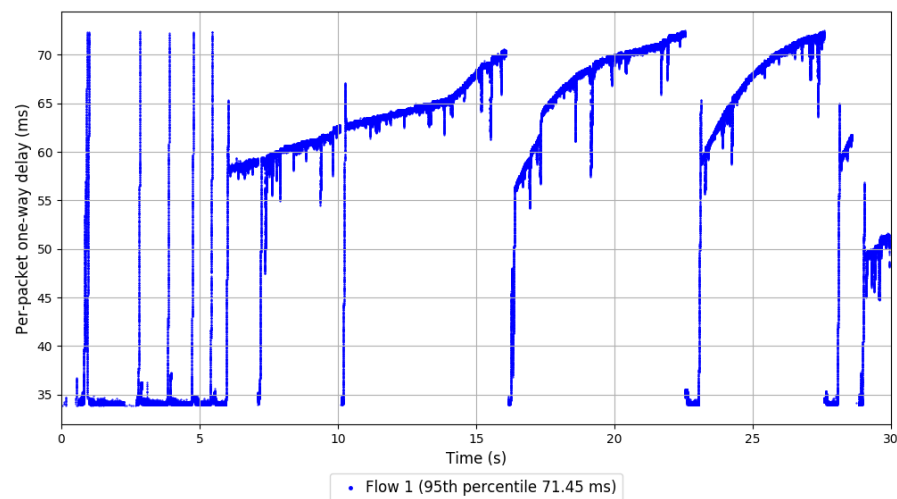
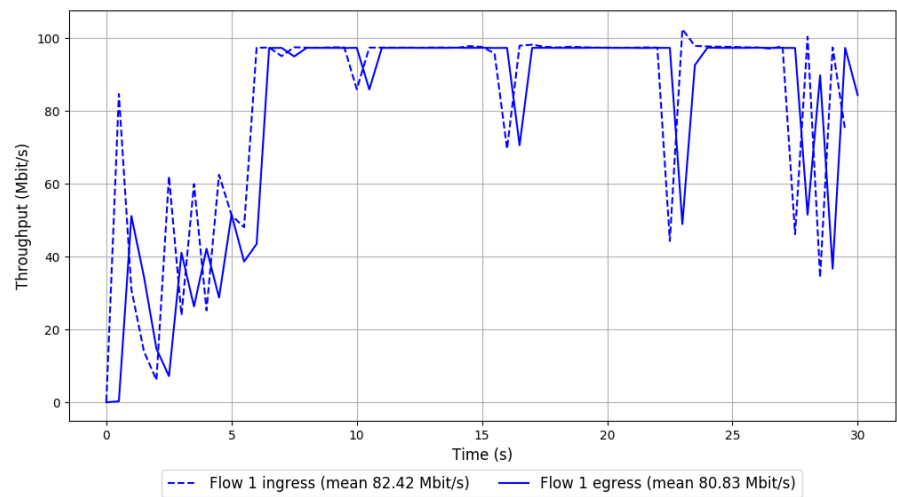
-- Flow 1:

Average throughput: 80.83 Mbit/s

95th percentile per-packet one-way delay: 71.449 ms

Loss rate: 1.88%

Run 5: Report of QUIC Cubic — Data Link

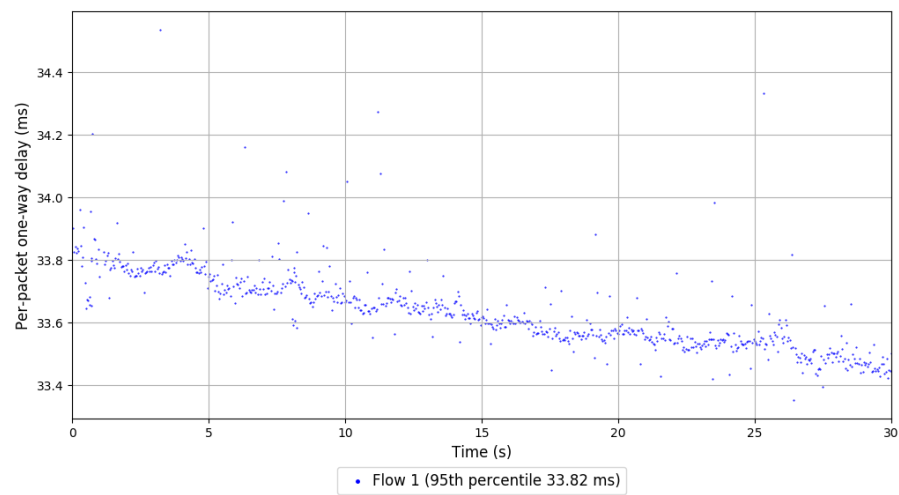
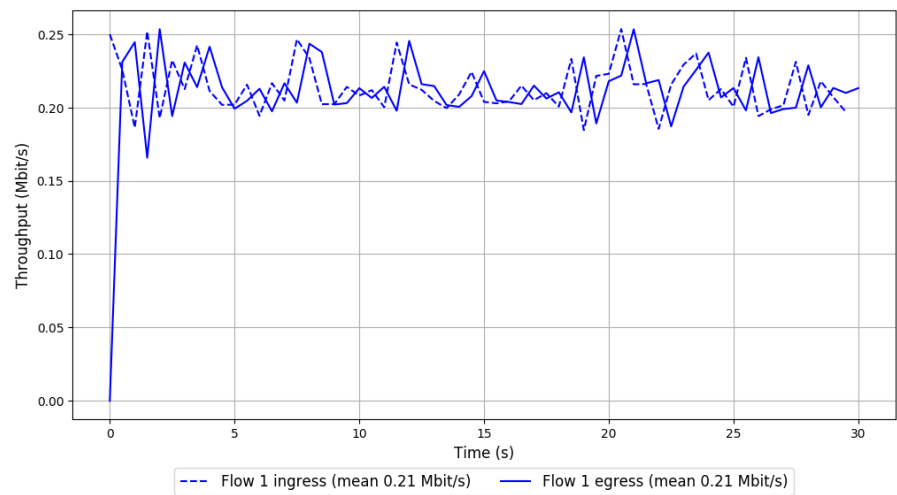


Run 1: Statistics of SReAM

Start at: 2019-11-23 22:48:24  
End at: 2019-11-23 22:48:54  
Local clock offset: -22.365 ms  
Remote clock offset: 6.166 ms

# Below is generated by plot.py at 2019-11-24 07:12:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 33.823 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 33.823 ms  
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

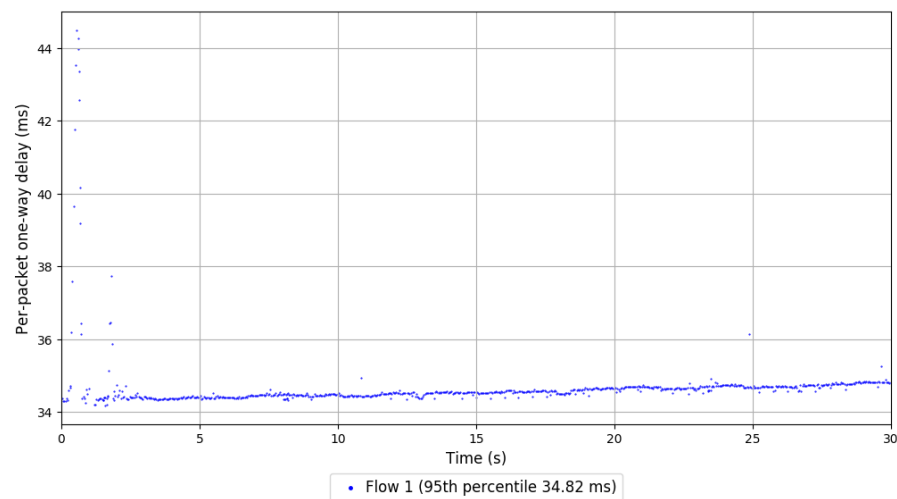
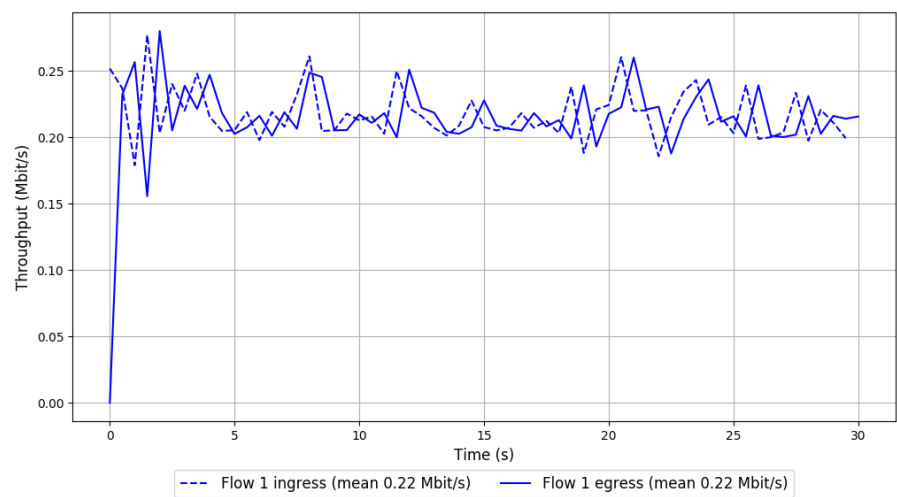


Run 2: Statistics of SCReAM

Start at: 2019-11-23 23:45:48  
End at: 2019-11-23 23:46:18  
Local clock offset: -14.885 ms  
Remote clock offset: 6.837 ms

# Below is generated by plot.py at 2019-11-24 07:12:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 34.816 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 34.816 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-11-24 00:46:58

End at: 2019-11-24 00:47:28

Local clock offset: -1.681 ms

Remote clock offset: 6.095 ms

# Below is generated by plot.py at 2019-11-24 07:12:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.408 ms

Loss rate: 0.00%

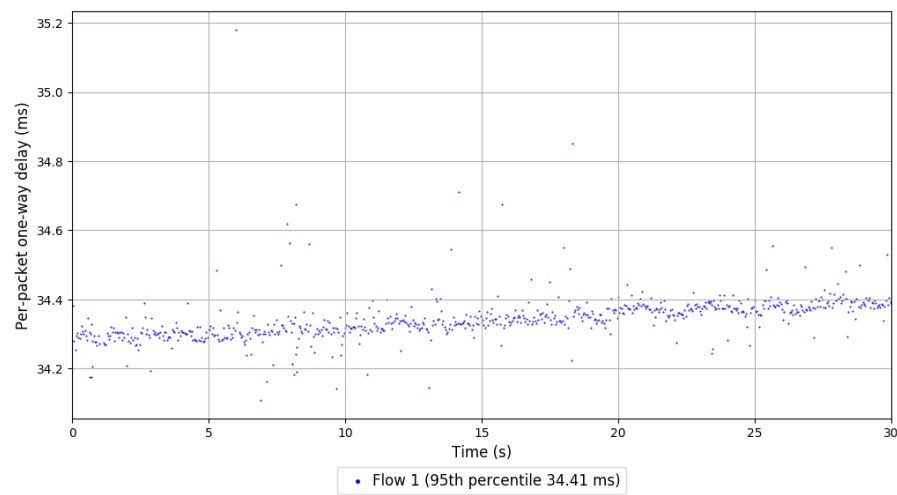
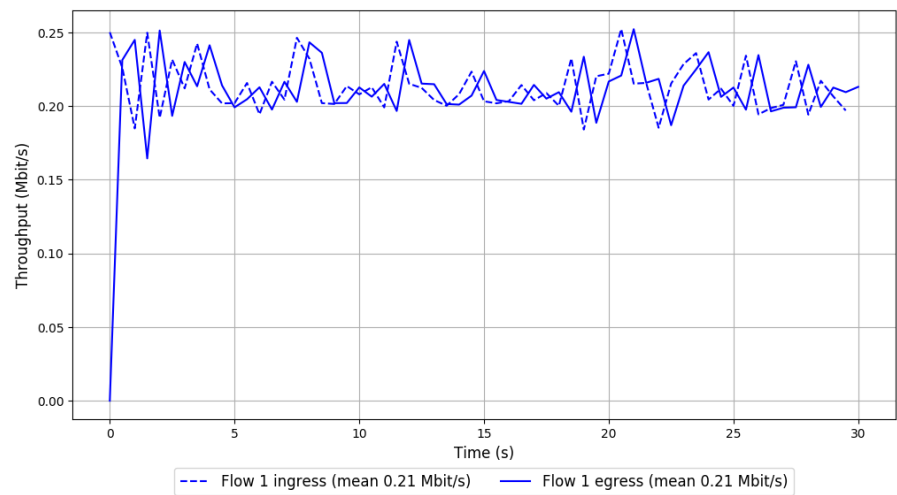
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.408 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link





Run 4: Statistics of SReAM

Start at: 2019-11-24 02:30:15

End at: 2019-11-24 02:30:45

Local clock offset: 2.643 ms

Remote clock offset: 3.319 ms

# Below is generated by plot.py at 2019-11-24 07:12:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.101 ms

Loss rate: 0.00%

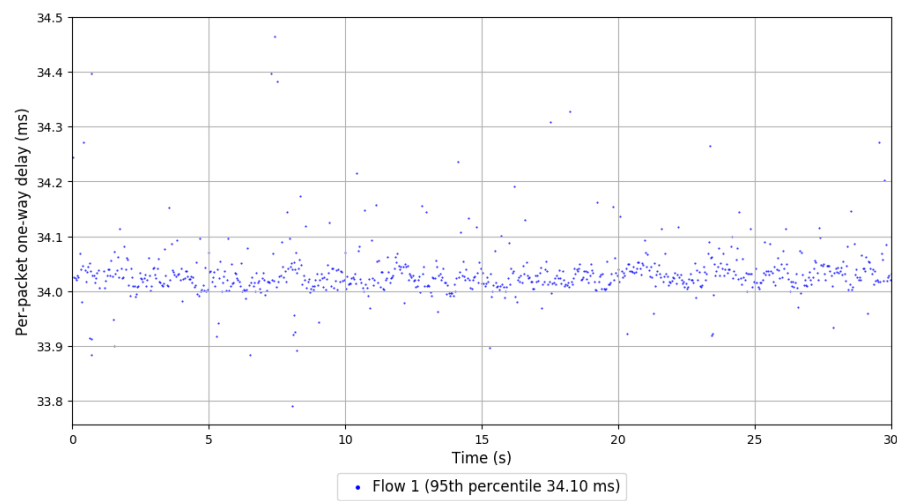
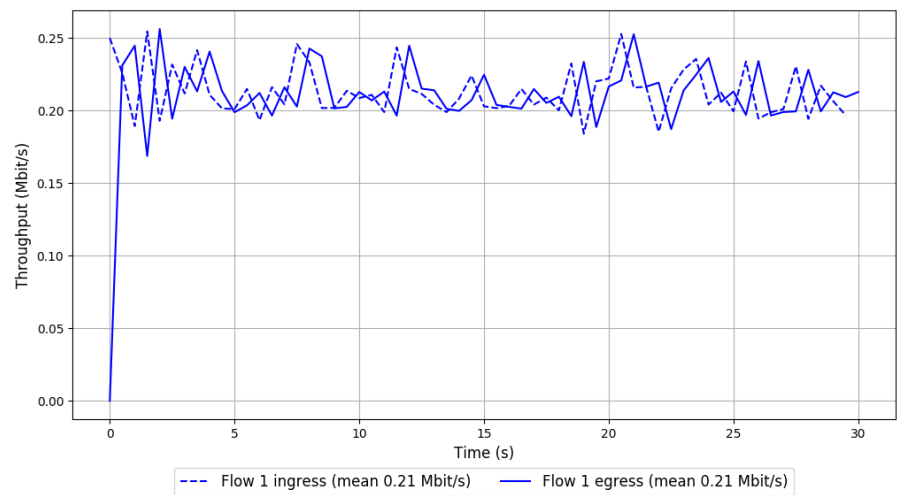
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.101 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-11-24 06:17:53

End at: 2019-11-24 06:18:23

Local clock offset: 2.574 ms

Remote clock offset: 4.178 ms

# Below is generated by plot.py at 2019-11-24 07:12:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.160 ms

Loss rate: 0.00%

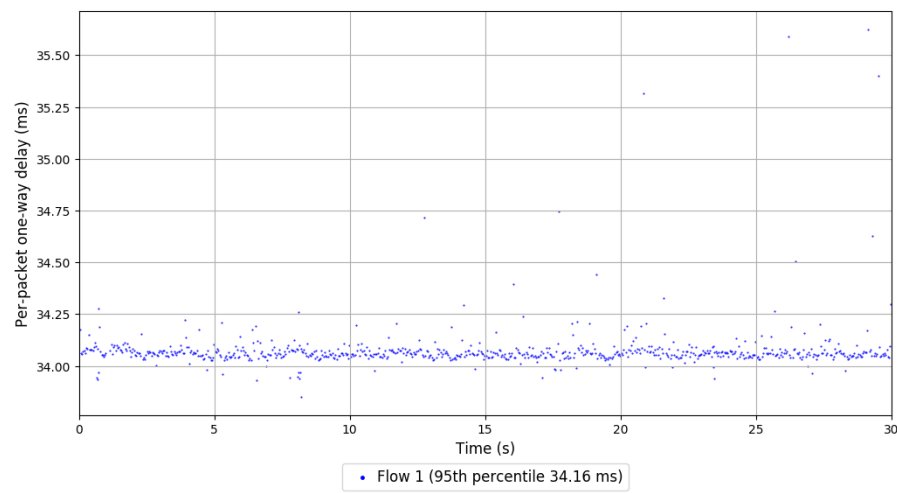
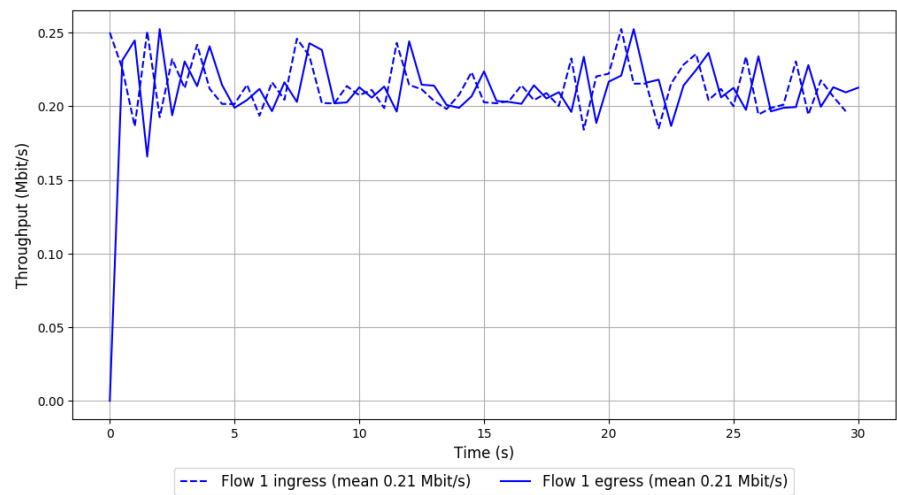
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.160 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

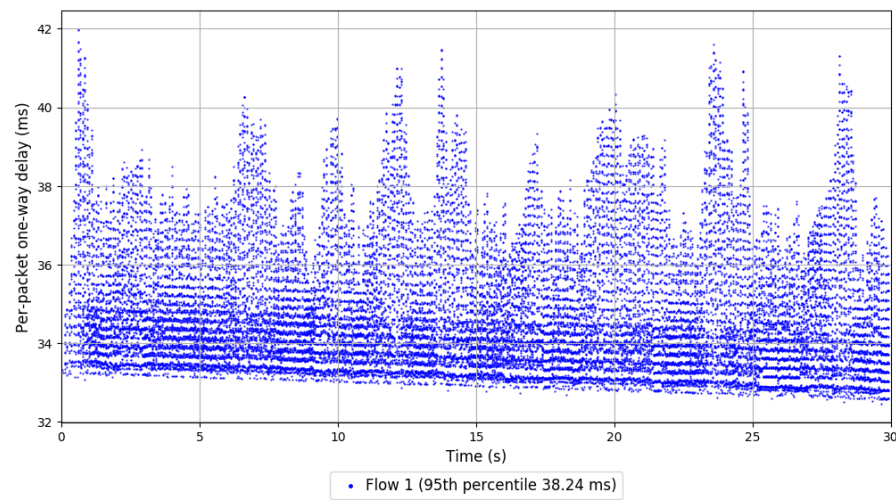
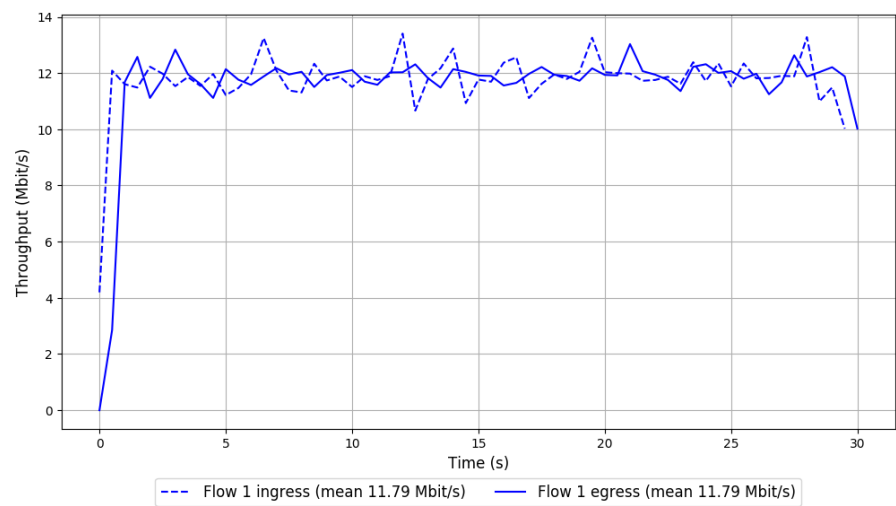


Run 1: Statistics of Sprout

Start at: 2019-11-23 22:56:12  
End at: 2019-11-23 22:56:42  
Local clock offset: -29.944 ms  
Remote clock offset: 6.136 ms

# Below is generated by plot.py at 2019-11-24 07:12:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 11.79 Mbit/s  
95th percentile per-packet one-way delay: 38.245 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 11.79 Mbit/s  
95th percentile per-packet one-way delay: 38.245 ms  
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

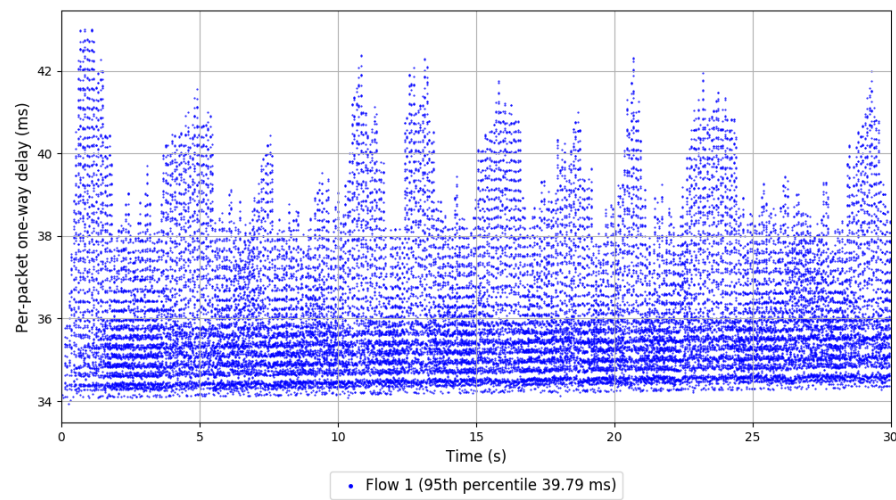
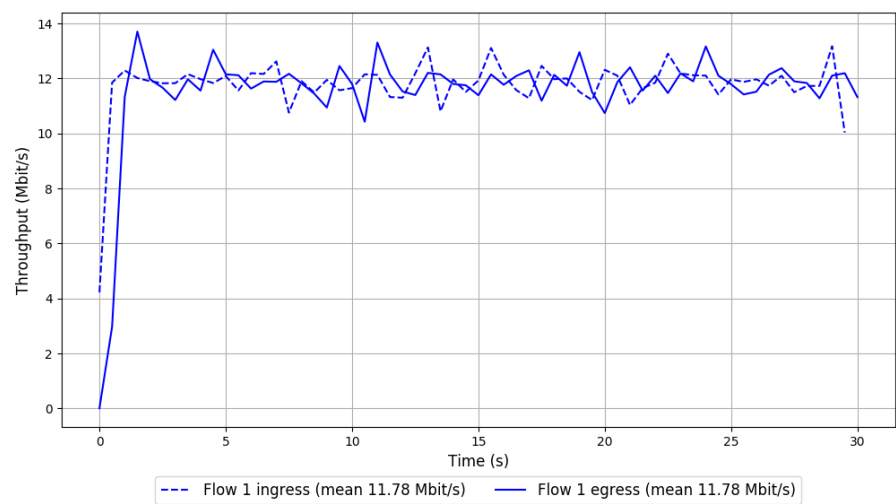


Run 2: Statistics of Sprout

Start at: 2019-11-23 23:50:00  
End at: 2019-11-23 23:50:31  
Local clock offset: -11.651 ms  
Remote clock offset: 6.733 ms

# Below is generated by plot.py at 2019-11-24 07:12:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 11.78 Mbit/s  
95th percentile per-packet one-way delay: 39.793 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 11.78 Mbit/s  
95th percentile per-packet one-way delay: 39.793 ms  
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



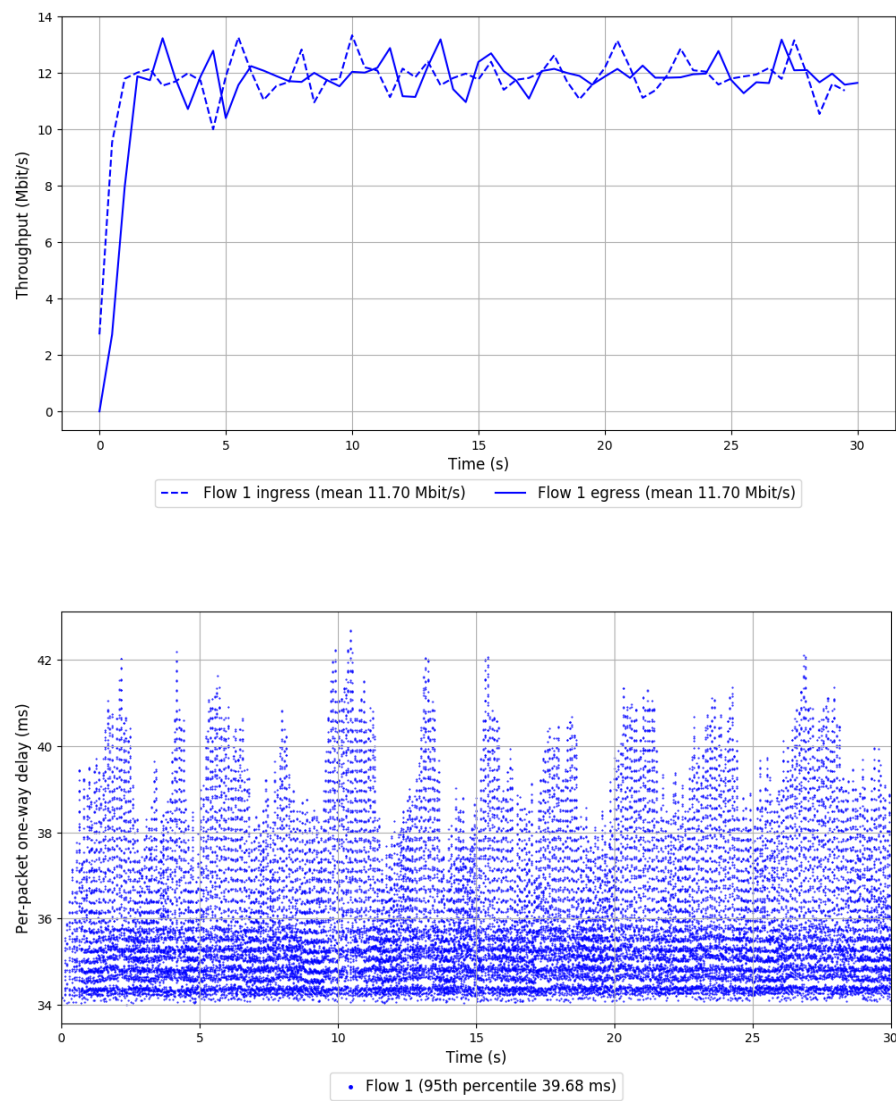


Run 3: Statistics of Sprout

Start at: 2019-11-24 00:52:53  
End at: 2019-11-24 00:53:23  
Local clock offset: -0.779 ms  
Remote clock offset: 6.049 ms

# Below is generated by plot.py at 2019-11-24 07:12:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 11.70 Mbit/s  
95th percentile per-packet one-way delay: 39.678 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 11.70 Mbit/s  
95th percentile per-packet one-way delay: 39.678 ms  
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-11-24 02:58:12

End at: 2019-11-24 02:58:42

Local clock offset: 1.81 ms

Remote clock offset: 4.027 ms

# Below is generated by plot.py at 2019-11-24 07:12:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.58 Mbit/s

95th percentile per-packet one-way delay: 39.060 ms

Loss rate: 0.00%

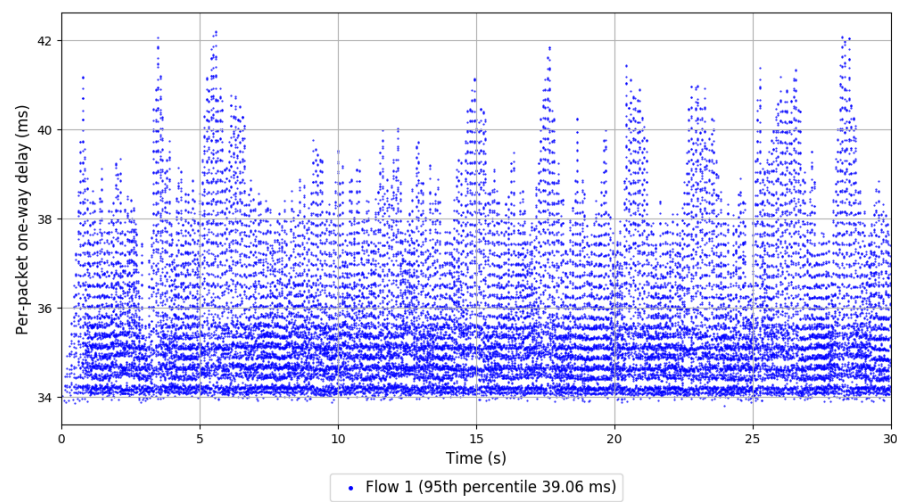
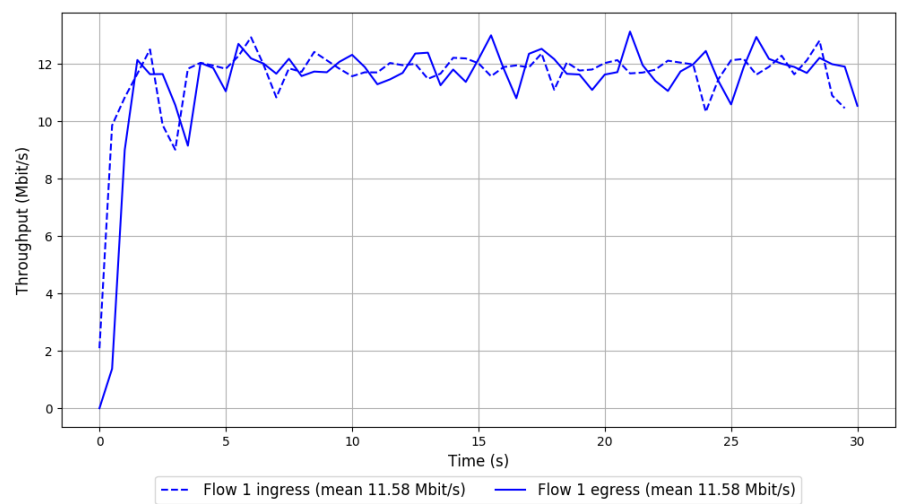
-- Flow 1:

Average throughput: 11.58 Mbit/s

95th percentile per-packet one-way delay: 39.060 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-11-24 06:27:58

End at: 2019-11-24 06:28:28

Local clock offset: 2.463 ms

Remote clock offset: 3.98 ms

# Below is generated by plot.py at 2019-11-24 07:12:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.75 Mbit/s

95th percentile per-packet one-way delay: 38.939 ms

Loss rate: 0.00%

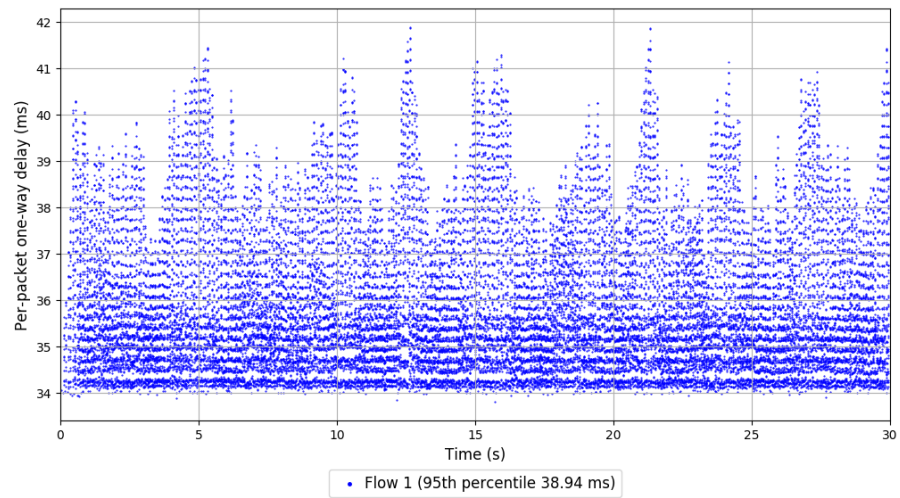
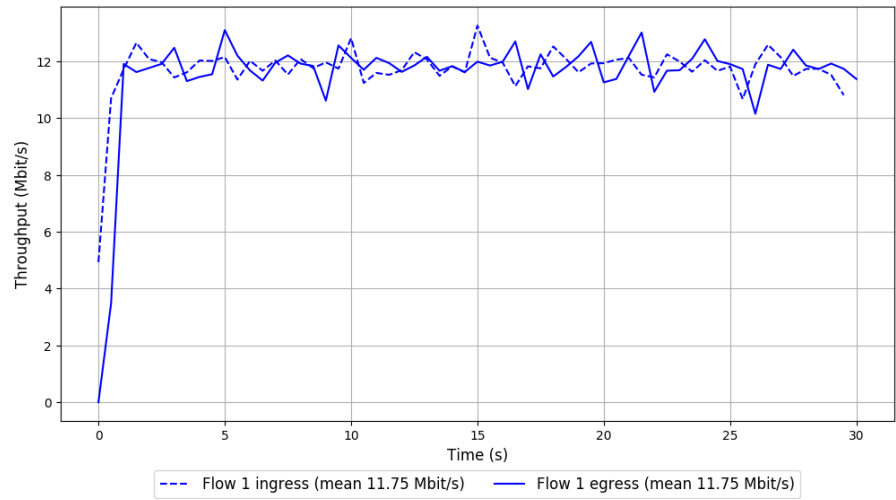
-- Flow 1:

Average throughput: 11.75 Mbit/s

95th percentile per-packet one-way delay: 38.939 ms

Loss rate: 0.00%

# Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

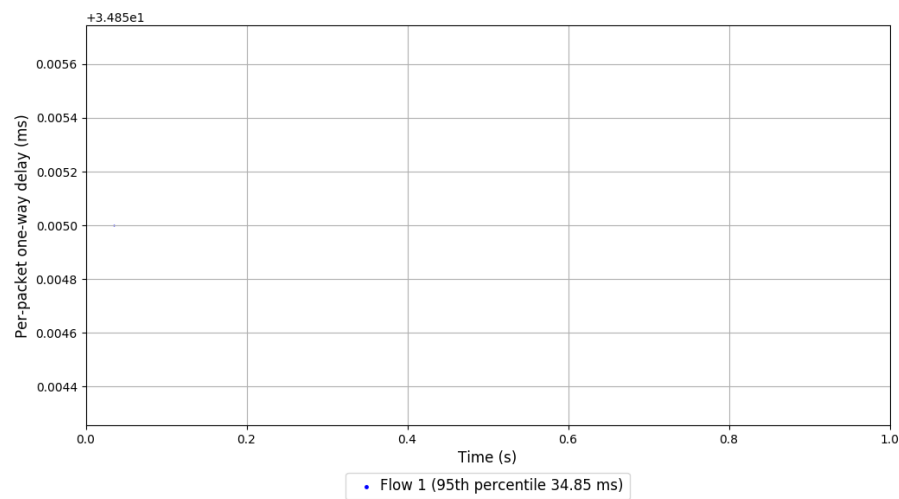
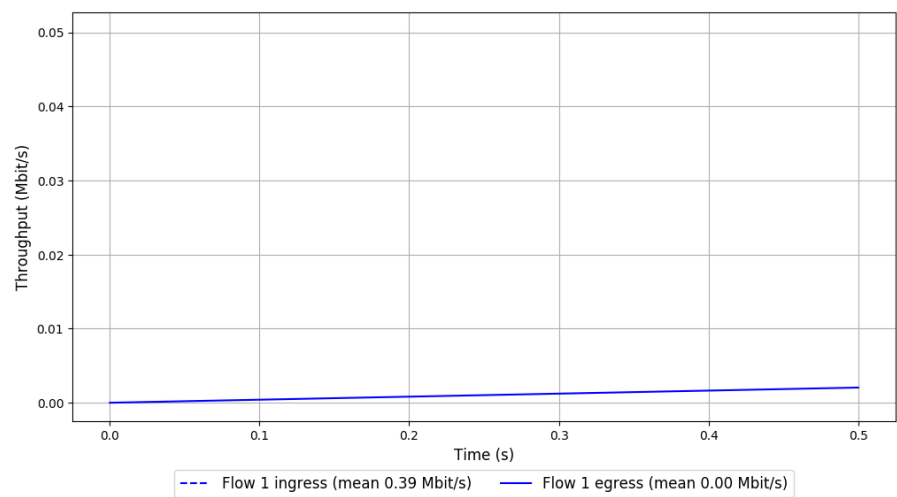
Start at: 2019-11-23 22:28:29

End at: 2019-11-23 22:28:59

Local clock offset: -16.397 ms

Remote clock offset: 6.326 ms

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





Run 2: Statistics of TaoVA-100x

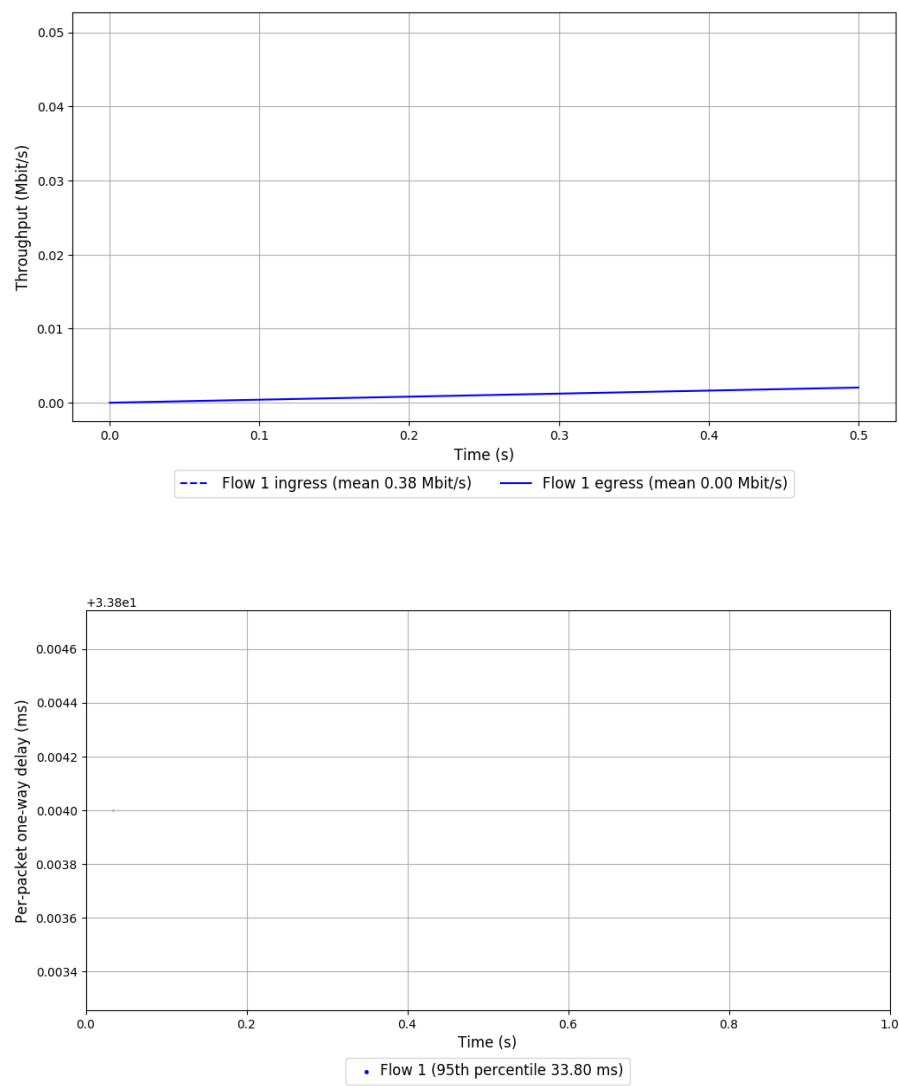
Start at: 2019-11-23 23:28:24

End at: 2019-11-23 23:28:54

Local clock offset: -20.485 ms

Remote clock offset: 6.594 ms

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



Run 3: Statistics of TaoVA-100x

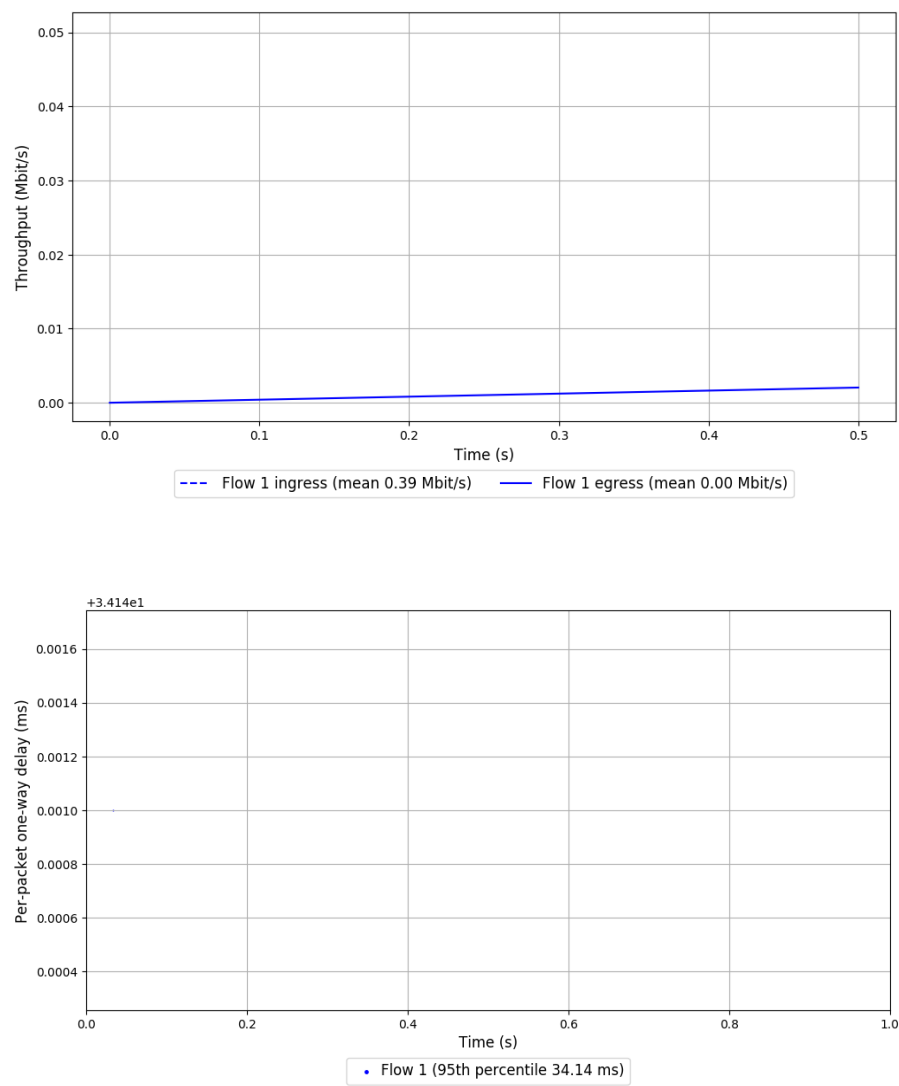
Start at: 2019-11-24 00:22:40

End at: 2019-11-24 00:23:10

Local clock offset: -4.199 ms

Remote clock offset: 5.825 ms

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



Run 4: Statistics of TaoVA-100x

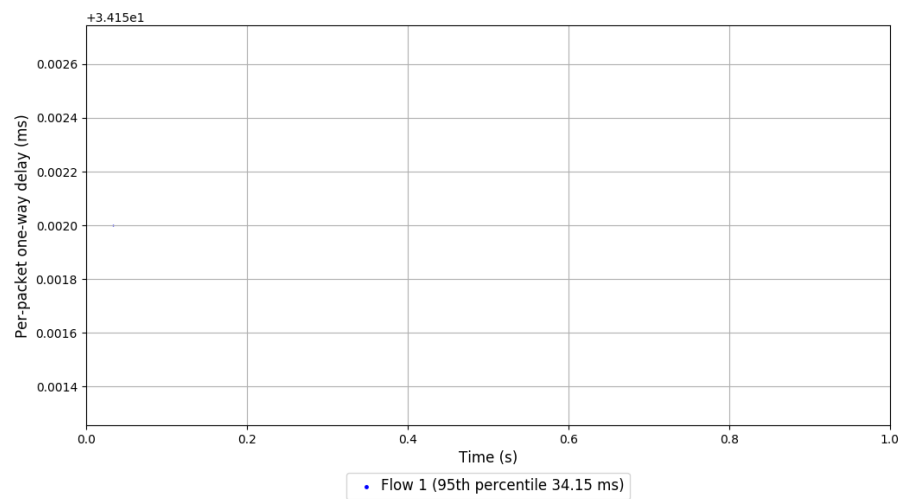
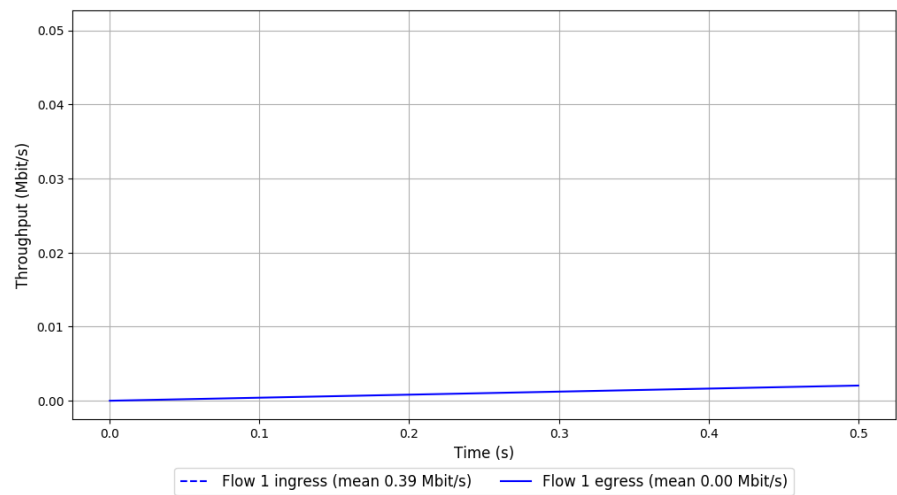
Start at: 2019-11-24 01:33:00

End at: 2019-11-24 01:33:30

Local clock offset: 0.871 ms

Remote clock offset: 5.949 ms

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



Run 5: Statistics of TaoVA-100x

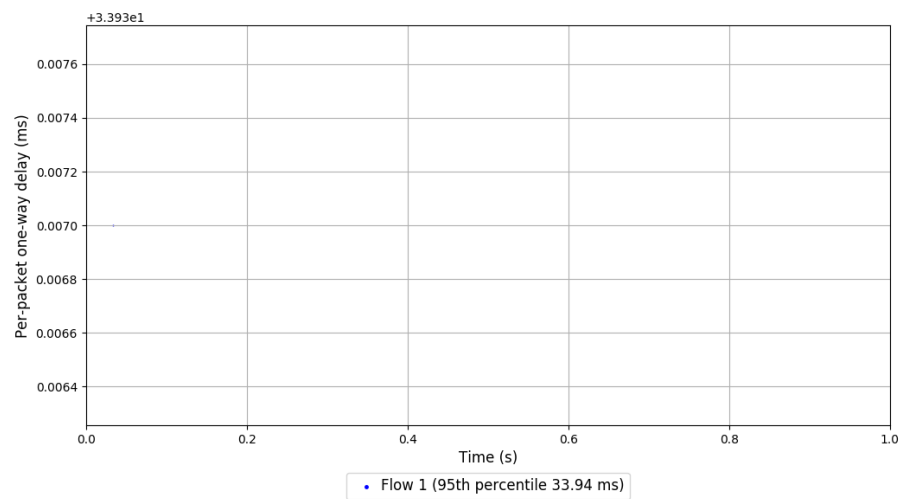
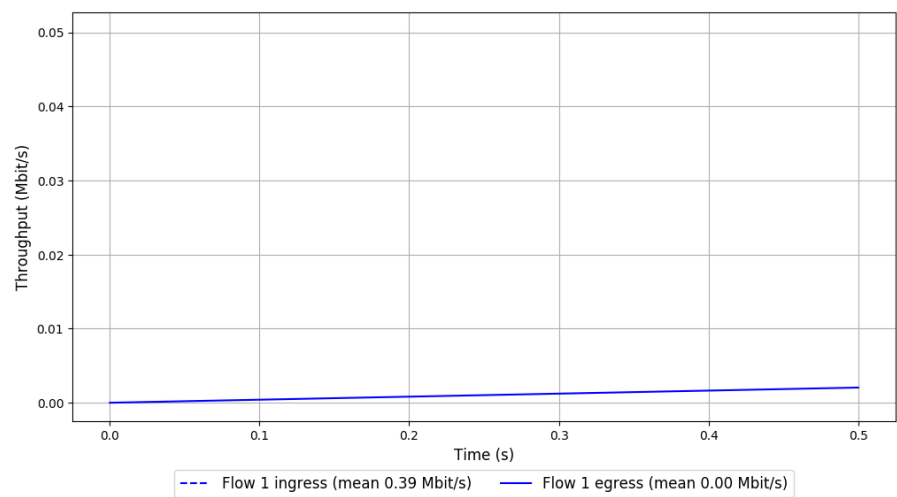
Start at: 2019-11-24 05:31:34

End at: 2019-11-24 05:32:05

Local clock offset: 2.612 ms

Remote clock offset: 4.242 ms

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



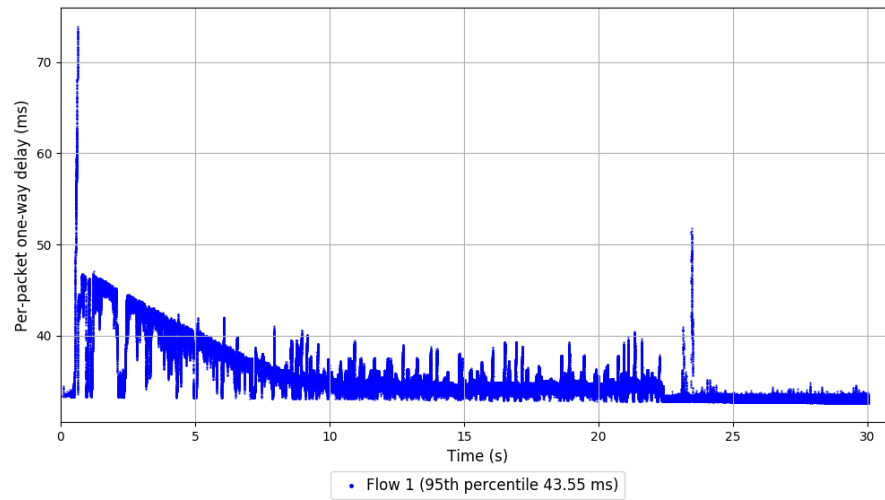
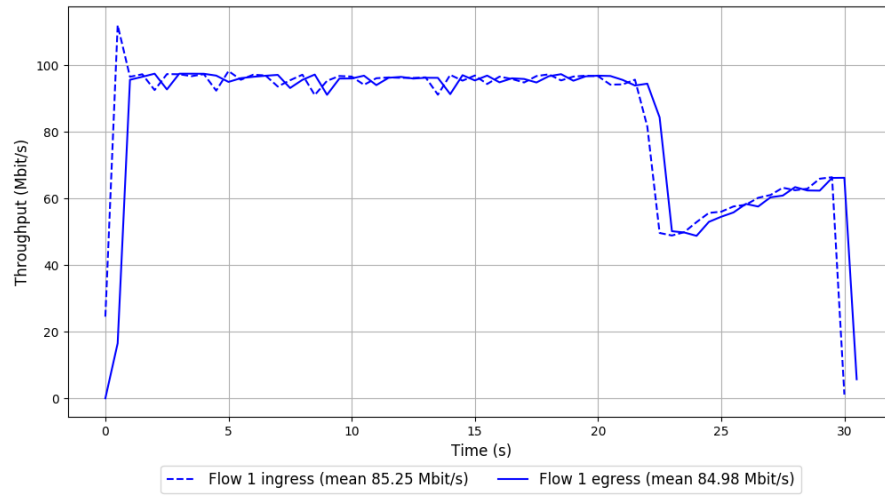


Run 1: Statistics of TCP Vegas

Start at: 2019-11-23 22:35:10  
End at: 2019-11-23 22:35:40  
Local clock offset: -17.532 ms  
Remote clock offset: 6.379 ms

# Below is generated by plot.py at 2019-11-24 07:13:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.98 Mbit/s  
95th percentile per-packet one-way delay: 43.545 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 84.98 Mbit/s  
95th percentile per-packet one-way delay: 43.545 ms  
Loss rate: 0.31%

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



Run 2: Statistics of TCP Vegas

Start at: 2019-11-23 23:33:54

End at: 2019-11-23 23:34:25

Local clock offset: -22.94 ms

Remote clock offset: 6.78 ms

# Below is generated by plot.py at 2019-11-24 07:13:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.46 Mbit/s

95th percentile per-packet one-way delay: 44.085 ms

Loss rate: 0.27%

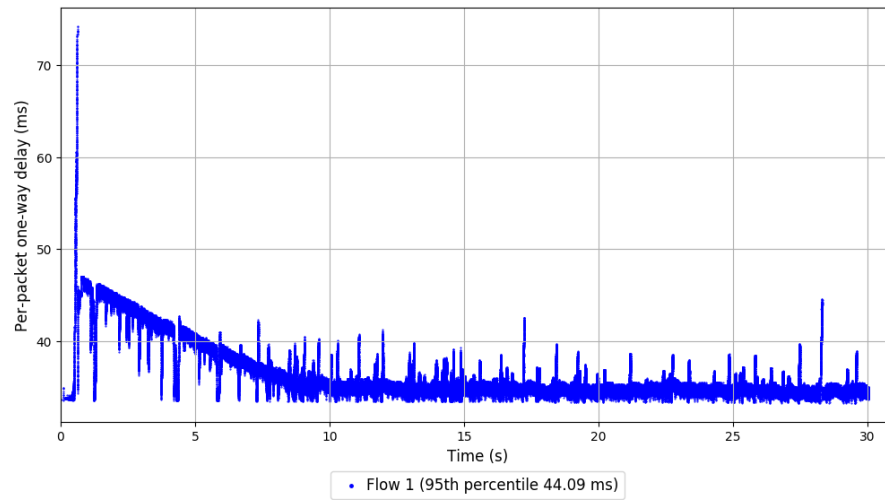
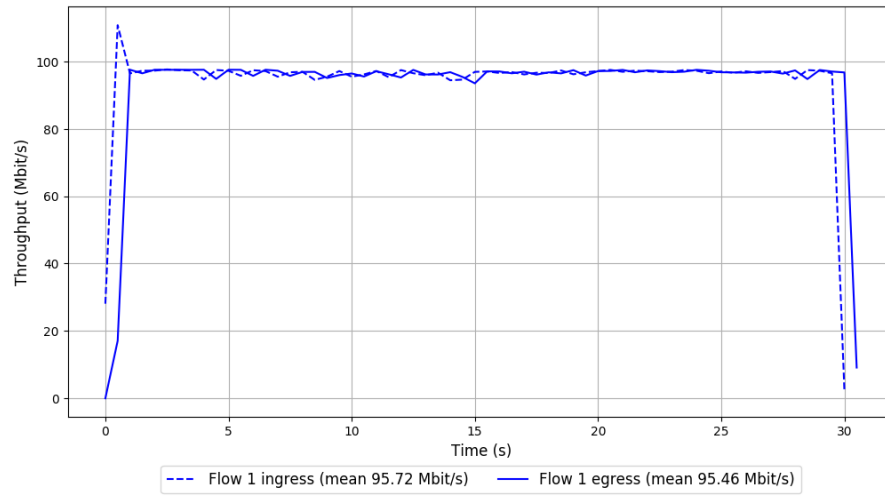
-- Flow 1:

Average throughput: 95.46 Mbit/s

95th percentile per-packet one-way delay: 44.085 ms

Loss rate: 0.27%

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



Run 3: Statistics of TCP Vegas

Start at: 2019-11-24 00:32:15

End at: 2019-11-24 00:32:45

Local clock offset: -4.226 ms

Remote clock offset: 6.001 ms

# Below is generated by plot.py at 2019-11-24 07:13:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.83 Mbit/s

95th percentile per-packet one-way delay: 44.000 ms

Loss rate: 0.27%

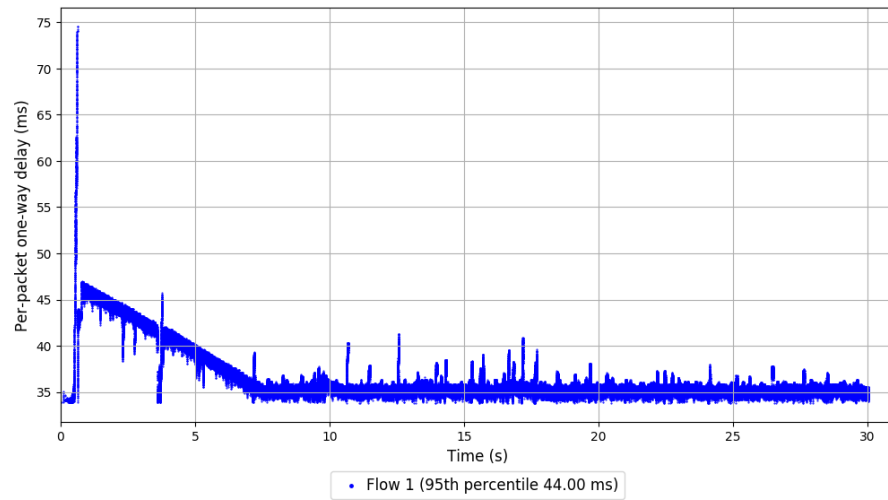
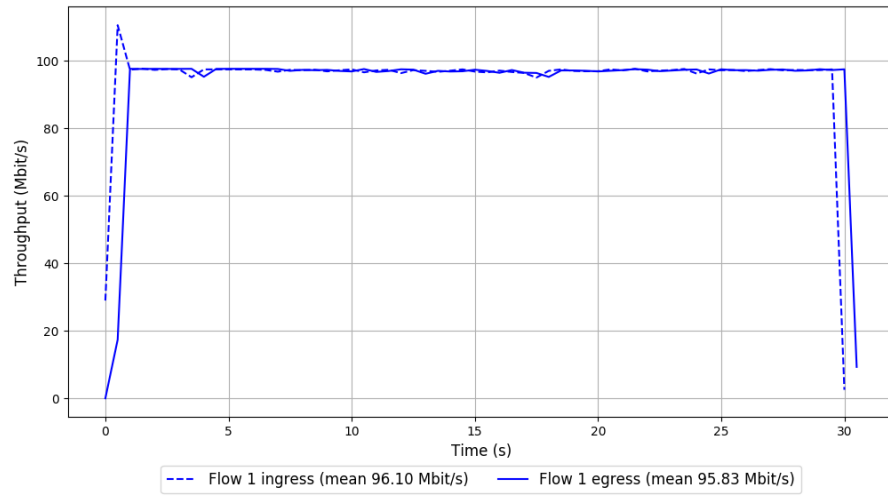
-- Flow 1:

Average throughput: 95.83 Mbit/s

95th percentile per-packet one-way delay: 44.000 ms

Loss rate: 0.27%

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



Run 4: Statistics of TCP Vegas

Start at: 2019-11-24 01:46:08

End at: 2019-11-24 01:46:38

Local clock offset: 1.77 ms

Remote clock offset: 5.82 ms

# Below is generated by plot.py at 2019-11-24 07:13:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 46.36 Mbit/s

95th percentile per-packet one-way delay: 34.942 ms

Loss rate: 1.25%

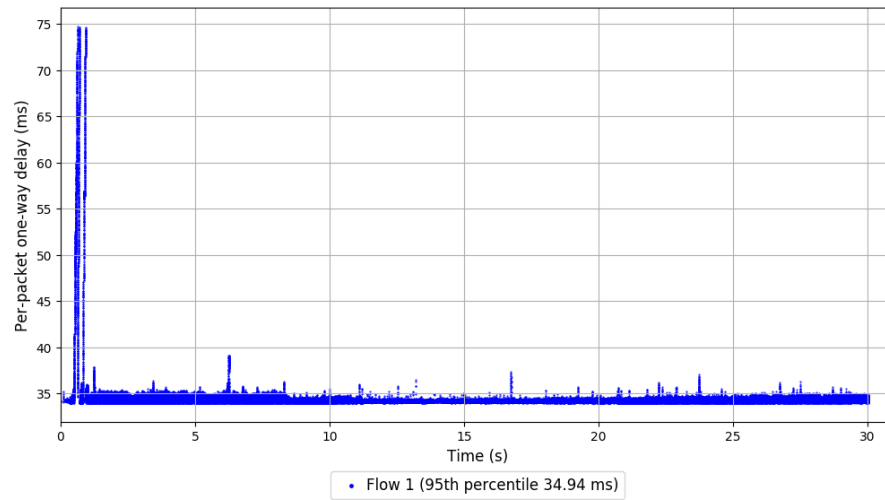
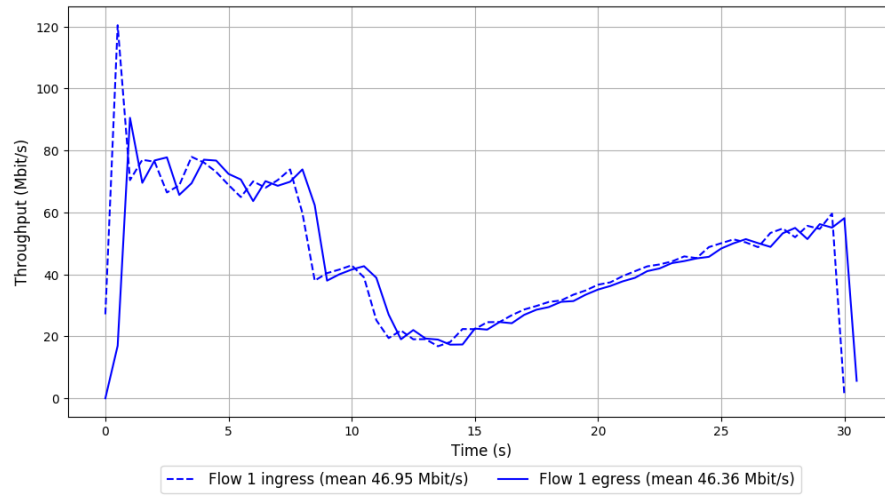
-- Flow 1:

Average throughput: 46.36 Mbit/s

95th percentile per-packet one-way delay: 34.942 ms

Loss rate: 1.25%

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





Run 5: Statistics of TCP Vegas

Start at: 2019-11-24 05:49:26

End at: 2019-11-24 05:49:56

Local clock offset: 2.656 ms

Remote clock offset: 4.2 ms

# Below is generated by plot.py at 2019-11-24 07:13:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.71 Mbit/s

95th percentile per-packet one-way delay: 44.385 ms

Loss rate: 0.28%

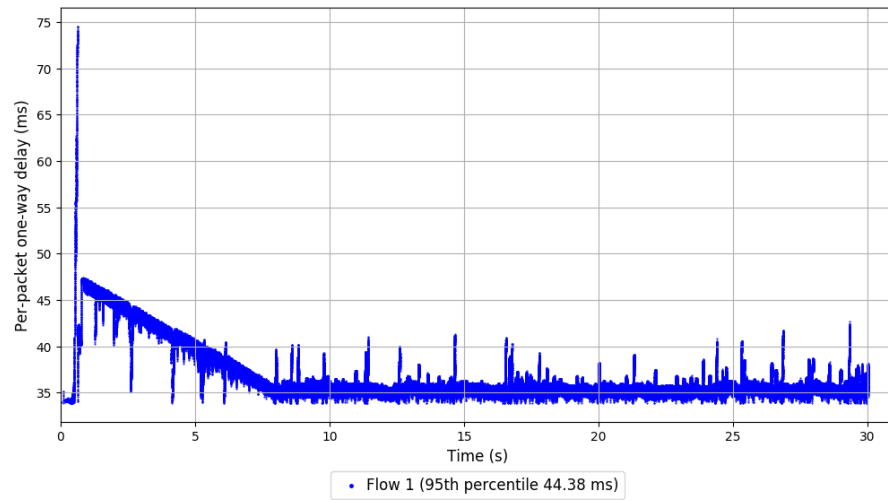
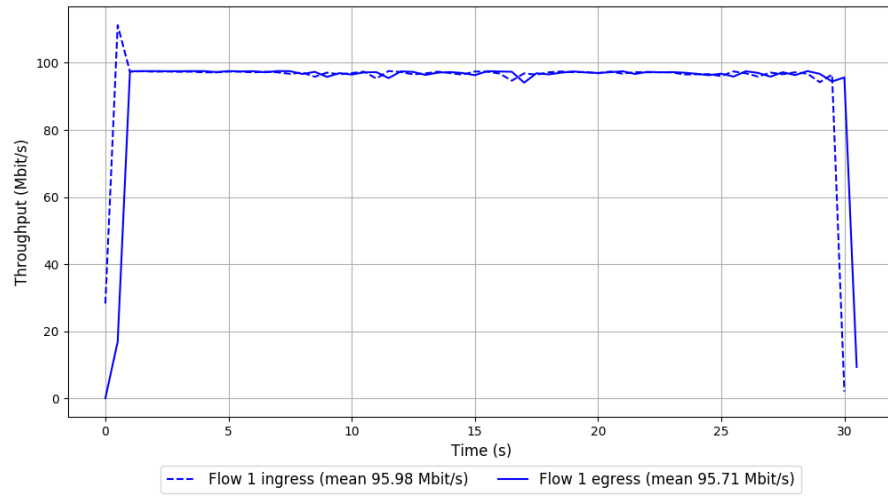
-- Flow 1:

Average throughput: 95.71 Mbit/s

95th percentile per-packet one-way delay: 44.385 ms

Loss rate: 0.28%

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

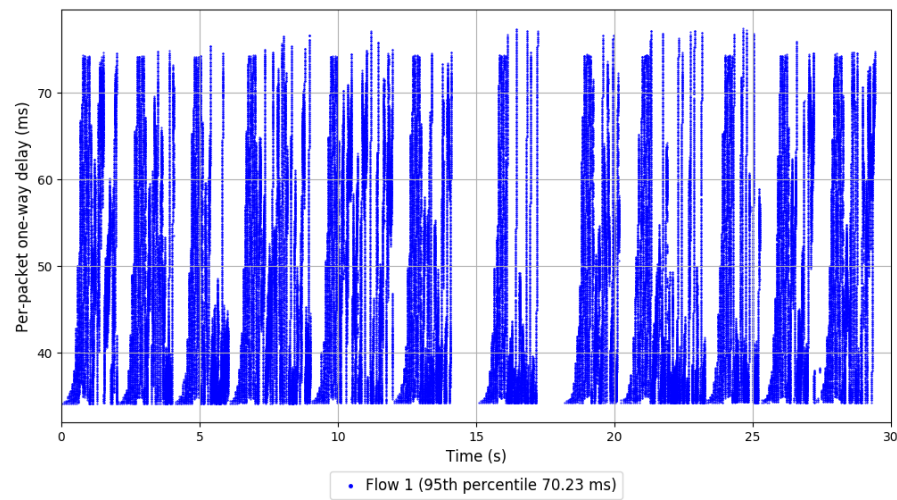
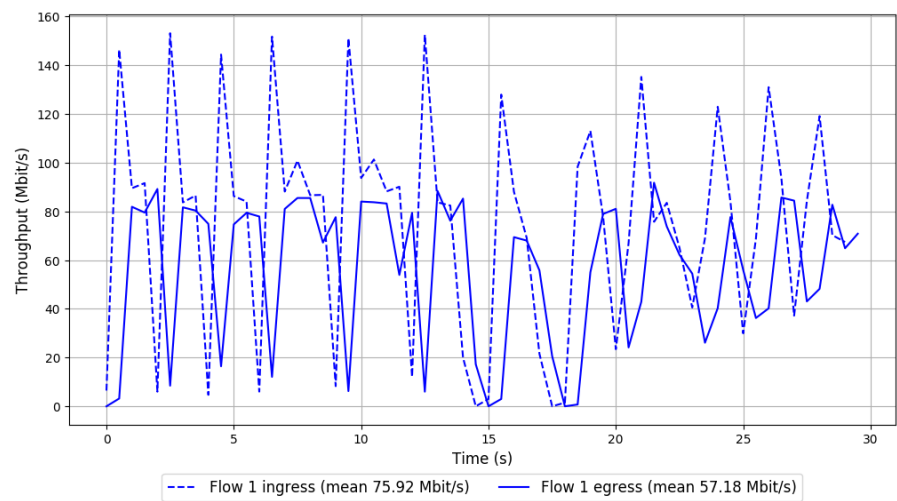


Run 1: Statistics of Verus

Start at: 2019-11-23 22:29:36  
End at: 2019-11-23 22:30:06  
Local clock offset: -14.962 ms  
Remote clock offset: 6.284 ms

# Below is generated by plot.py at 2019-11-24 07:13:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 57.18 Mbit/s  
95th percentile per-packet one-way delay: 70.227 ms  
Loss rate: 24.60%  
-- Flow 1:  
Average throughput: 57.18 Mbit/s  
95th percentile per-packet one-way delay: 70.227 ms  
Loss rate: 24.60%

Run 1: Report of Verus — Data Link

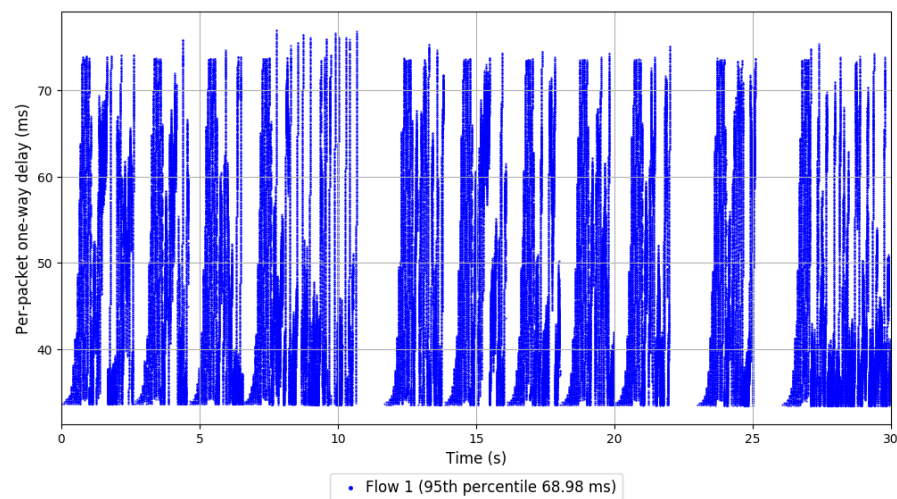
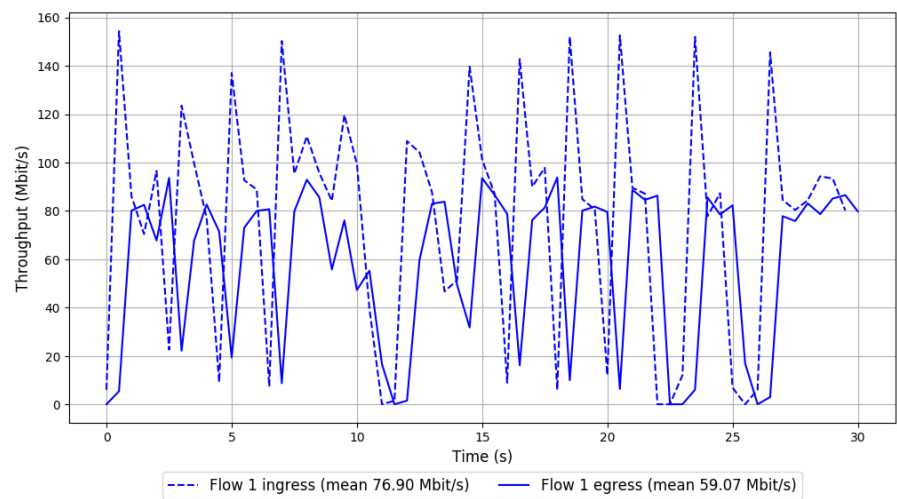


Run 2: Statistics of Verus

Start at: 2019-11-23 23:29:32  
End at: 2019-11-23 23:30:02  
Local clock offset: -20.788 ms  
Remote clock offset: 6.645 ms

# Below is generated by plot.py at 2019-11-24 07:13:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 59.07 Mbit/s  
95th percentile per-packet one-way delay: 68.976 ms  
Loss rate: 23.18%  
-- Flow 1:  
Average throughput: 59.07 Mbit/s  
95th percentile per-packet one-way delay: 68.976 ms  
Loss rate: 23.18%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-11-24 00:23:48

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

Local clock offset: -3.992 ms

Remote clock offset: 6.017 ms

# Below is generated by plot.py at 2019-11-24 07:13:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 64.25 Mbit/s

95th percentile per-packet one-way delay: 70.029 ms

Loss rate: 25.32%

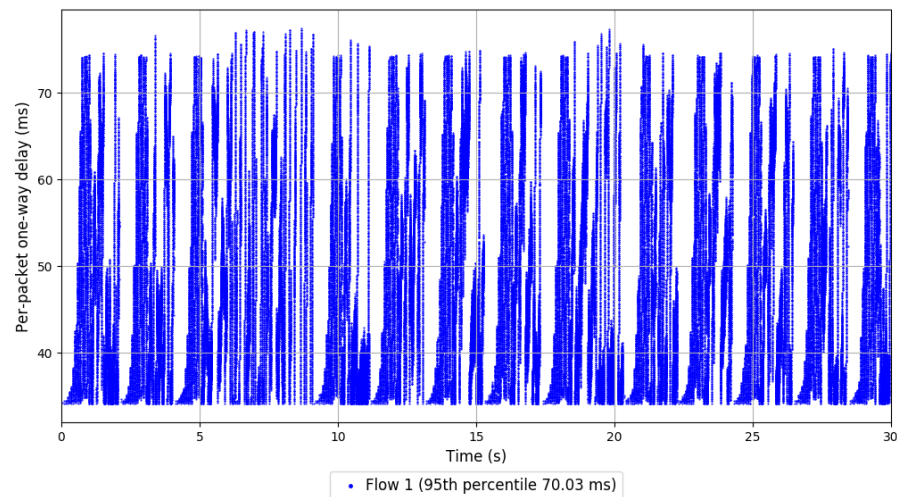
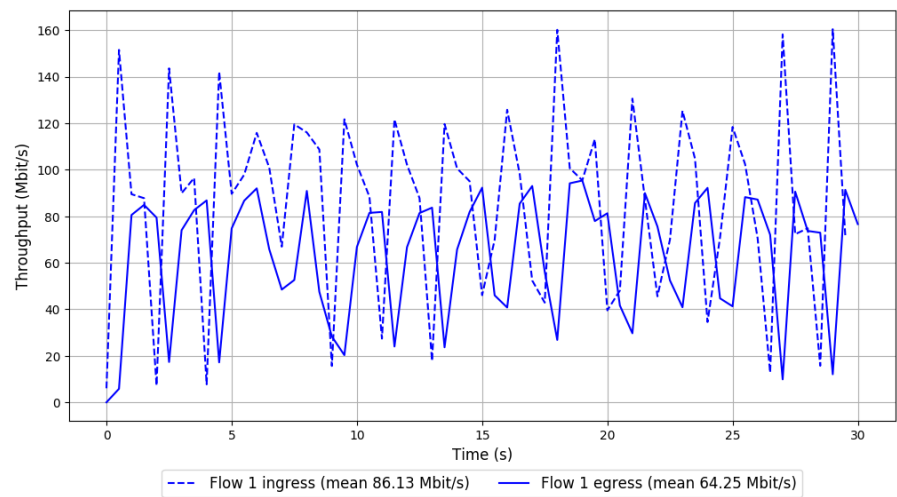
-- Flow 1:

Average throughput: 64.25 Mbit/s

95th percentile per-packet one-way delay: 70.029 ms

Loss rate: 25.32%

Run 3: Report of Verus — Data Link





Run 4: Statistics of Verus

Start at: 2019-11-24 01:34:08

End at: 2019-11-24 01:34:38

Local clock offset: 0.854 ms

Remote clock offset: 5.921 ms

# Below is generated by plot.py at 2019-11-24 07:13:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 56.21 Mbit/s

95th percentile per-packet one-way delay: 69.691 ms

Loss rate: 24.61%

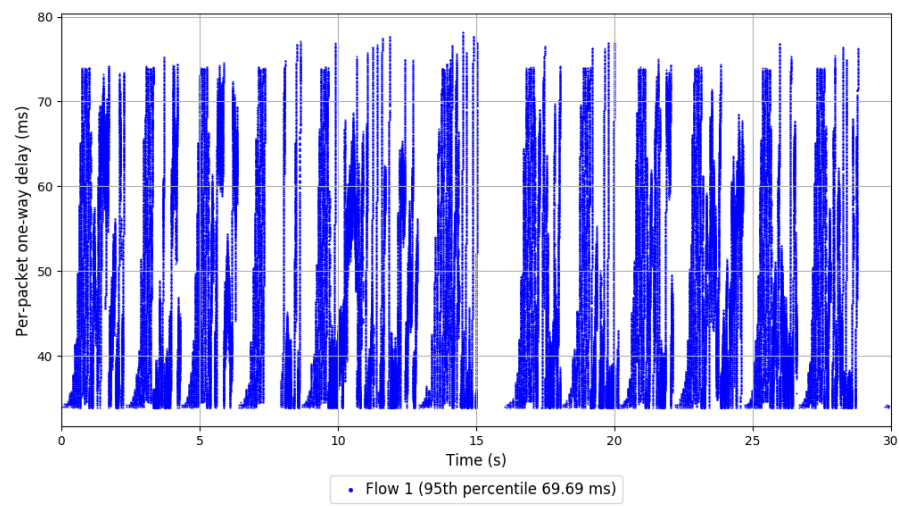
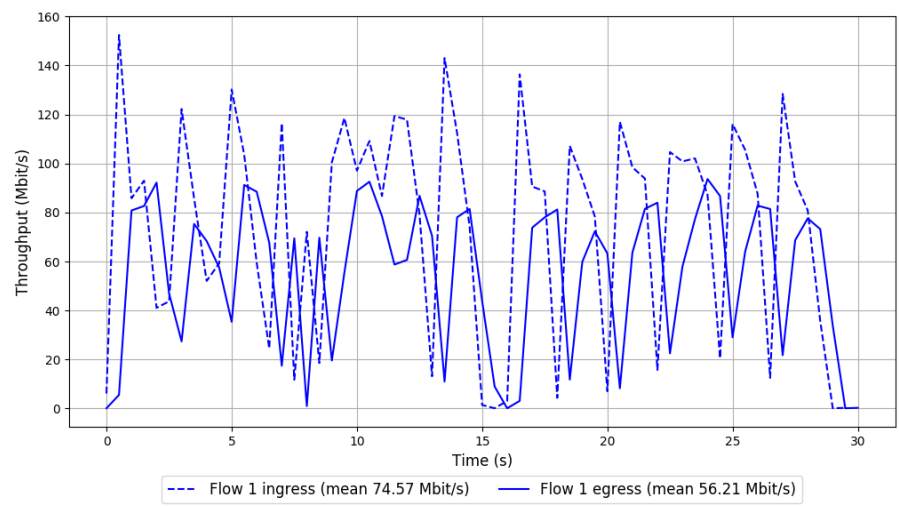
-- Flow 1:

Average throughput: 56.21 Mbit/s

95th percentile per-packet one-way delay: 69.691 ms

Loss rate: 24.61%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-11-24 05:32:44

End at: 2019-11-24 05:33:14

Local clock offset: 2.63 ms

Remote clock offset: 4.194 ms

# Below is generated by plot.py at 2019-11-24 07:13:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 56.94 Mbit/s

95th percentile per-packet one-way delay: 69.605 ms

Loss rate: 25.39%

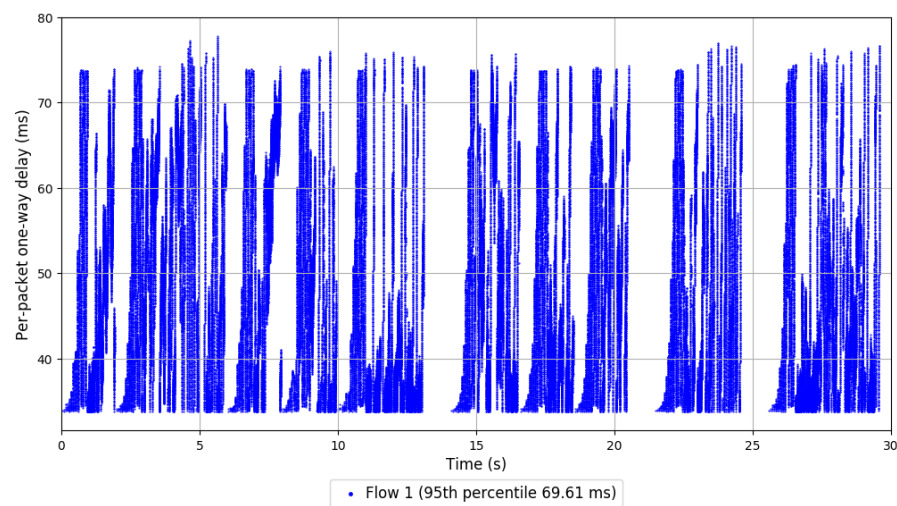
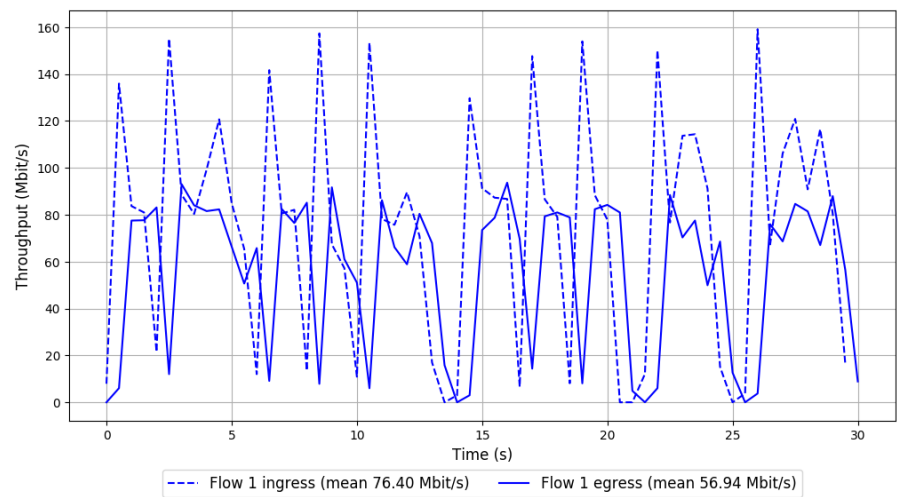
-- Flow 1:

Average throughput: 56.94 Mbit/s

95th percentile per-packet one-way delay: 69.605 ms

Loss rate: 25.39%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-11-23 22:16:42

End at: 2019-11-23 22:17:12

Local clock offset: -8.106 ms

Remote clock offset: 6.164 ms

# Below is generated by plot.py at 2019-11-24 07:13:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 77.89 Mbit/s

95th percentile per-packet one-way delay: 33.545 ms

Loss rate: 0.00%

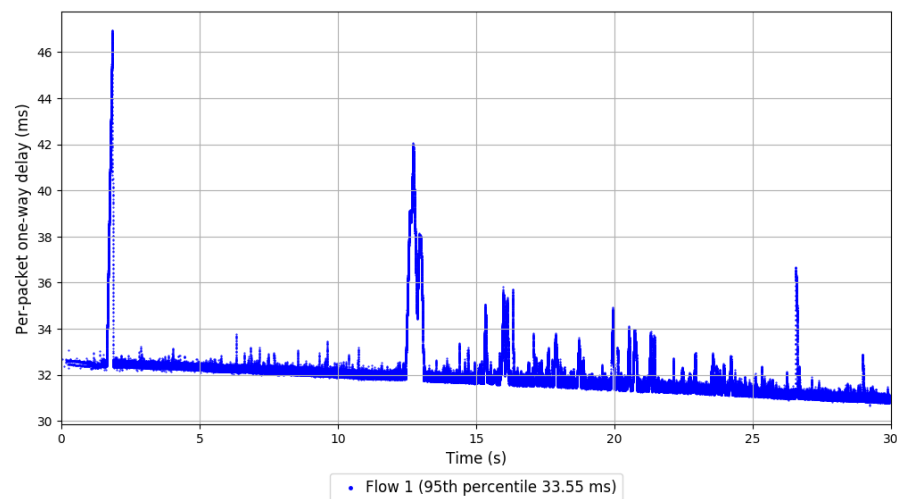
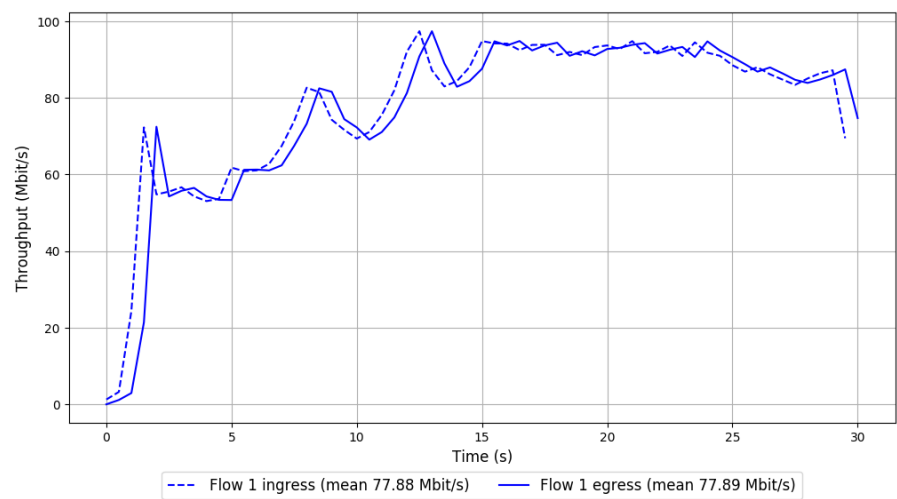
-- Flow 1:

Average throughput: 77.89 Mbit/s

95th percentile per-packet one-way delay: 33.545 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link

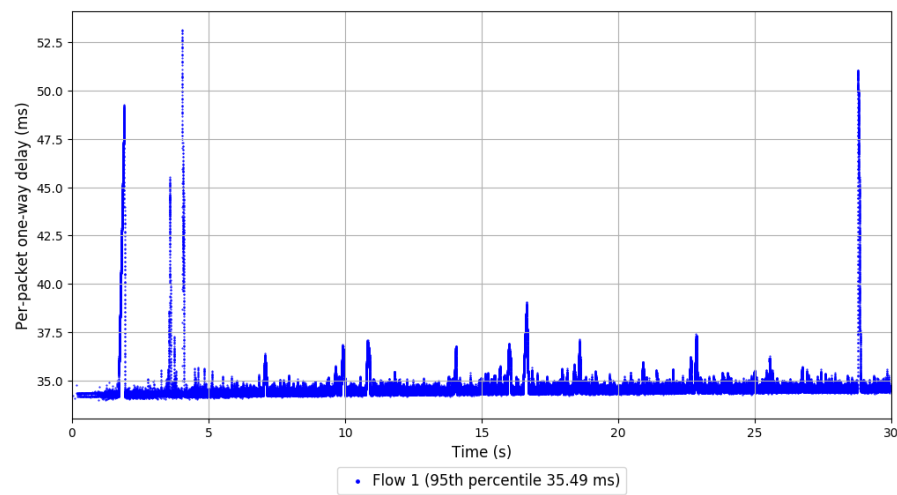
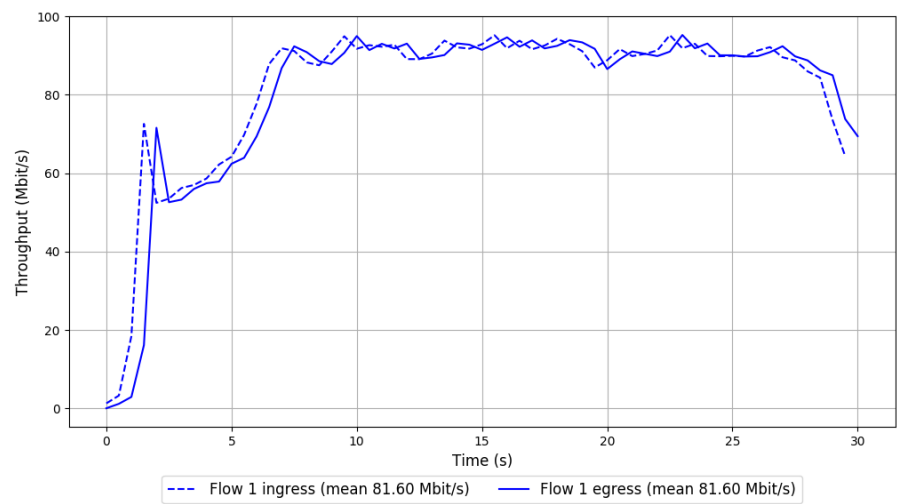


Run 2: Statistics of PCC-Vivace

Start at: 2019-11-23 23:20:55  
End at: 2019-11-23 23:21:25  
Local clock offset: -21.656 ms  
Remote clock offset: 6.379 ms

# Below is generated by plot.py at 2019-11-24 07:14:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 81.60 Mbit/s  
95th percentile per-packet one-way delay: 35.494 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 81.60 Mbit/s  
95th percentile per-packet one-way delay: 35.494 ms  
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



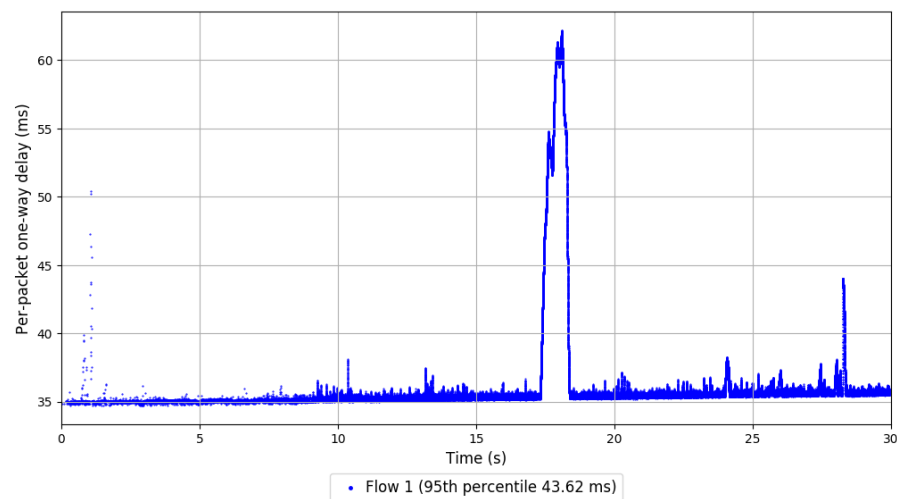
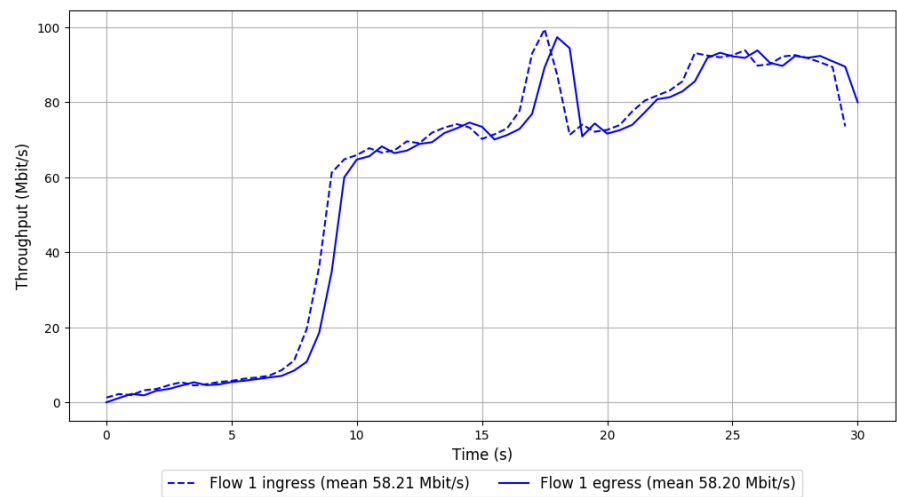


Run 3: Statistics of PCC-Vivace

Start at: 2019-11-24 00:10:59  
End at: 2019-11-24 00:11:29  
Local clock offset: -12.263 ms  
Remote clock offset: 5.935 ms

# Below is generated by plot.py at 2019-11-24 07:14:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 58.20 Mbit/s  
95th percentile per-packet one-way delay: 43.622 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 58.20 Mbit/s  
95th percentile per-packet one-way delay: 43.622 ms  
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-11-24 01:19:33

End at: 2019-11-24 01:20:03

Local clock offset: 0.785 ms

Remote clock offset: 5.951 ms

# Below is generated by plot.py at 2019-11-24 07:14:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.95 Mbit/s

95th percentile per-packet one-way delay: 52.107 ms

Loss rate: 0.55%

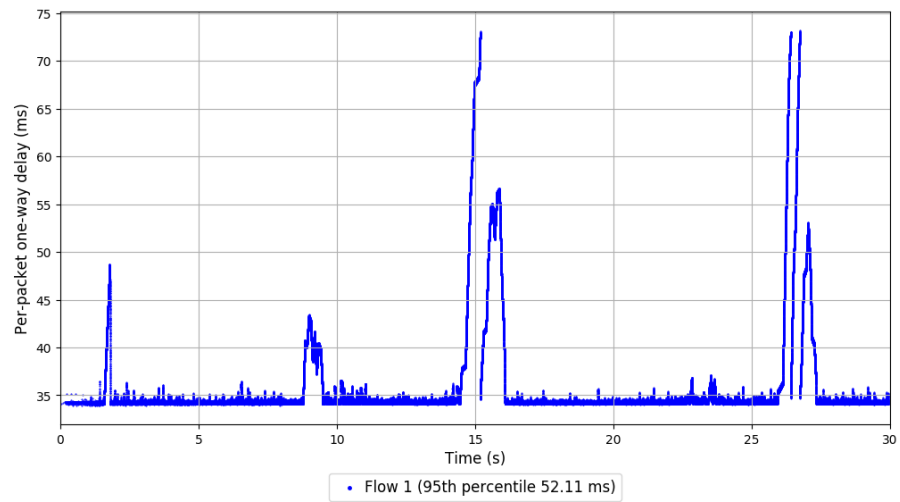
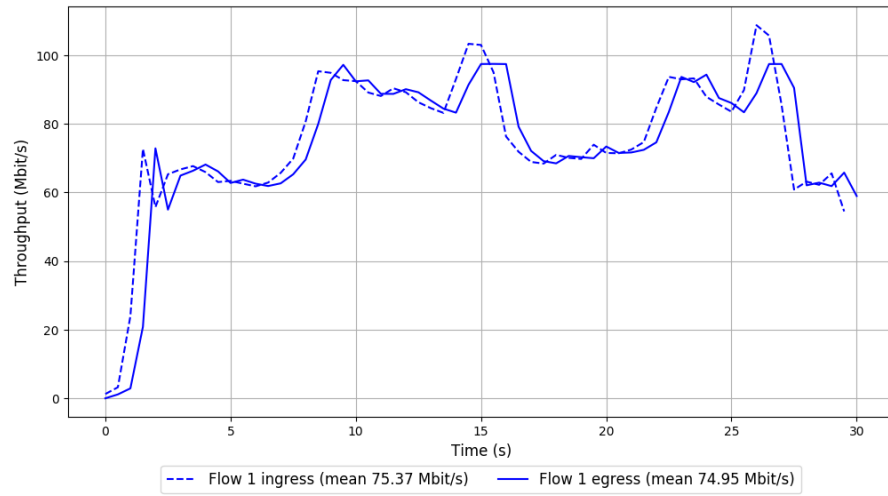
-- Flow 1:

Average throughput: 74.95 Mbit/s

95th percentile per-packet one-way delay: 52.107 ms

Loss rate: 0.55%

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



Run 5: Statistics of PCC-Vivace

Start at: 2019-11-24 05:02:12

End at: 2019-11-24 05:02:42

Local clock offset: 3.024 ms

Remote clock offset: 4.041 ms

# Below is generated by plot.py at 2019-11-24 07:14:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 75.33 Mbit/s

95th percentile per-packet one-way delay: 35.124 ms

Loss rate: 0.00%

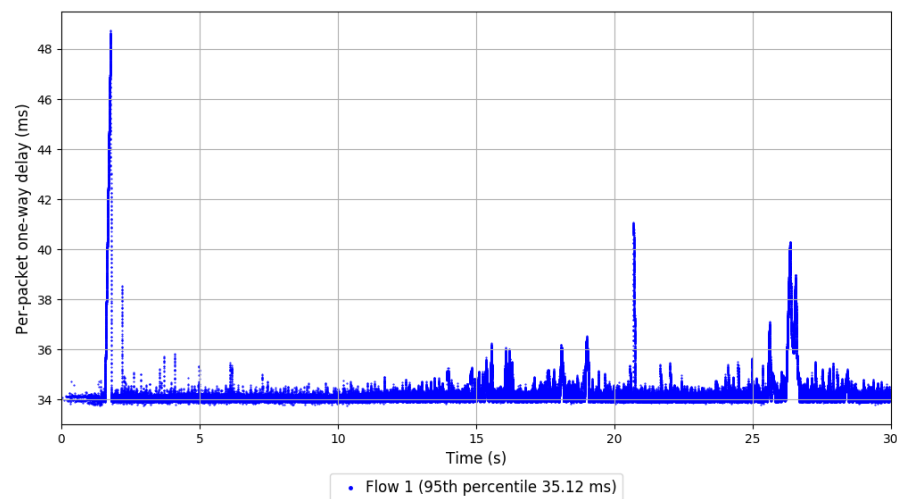
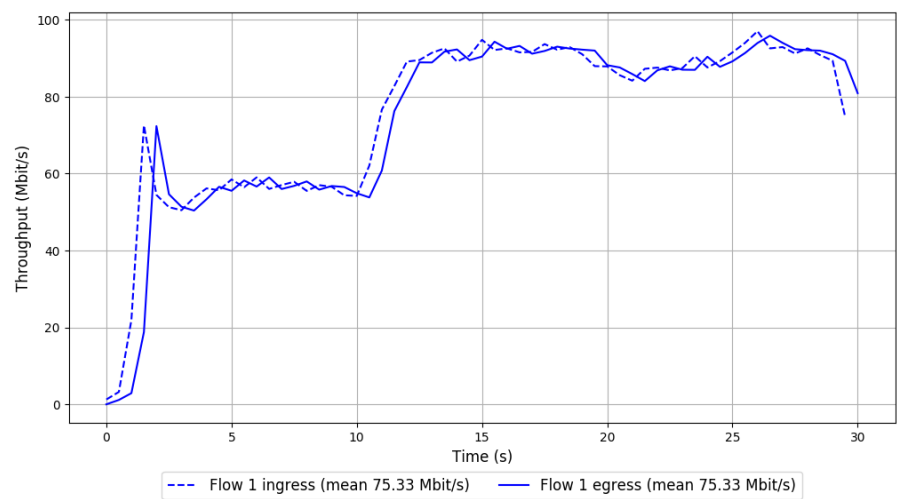
-- Flow 1:

Average throughput: 75.33 Mbit/s

95th percentile per-packet one-way delay: 35.124 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

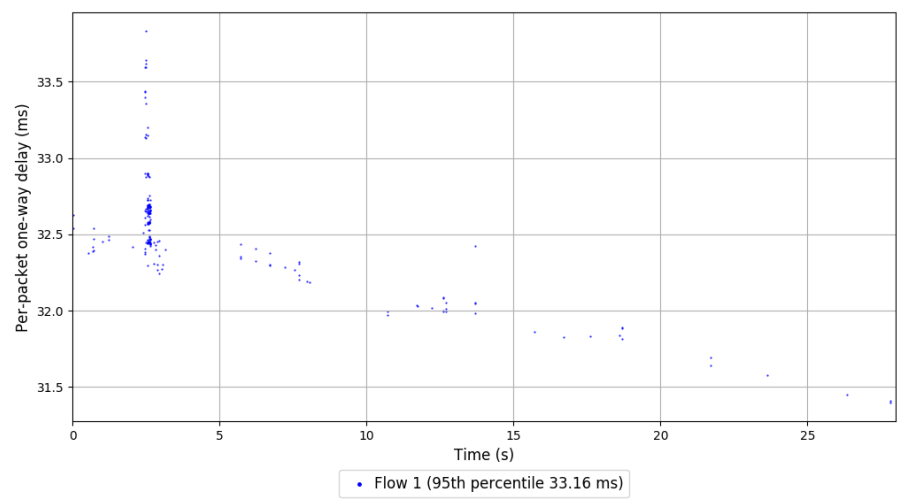
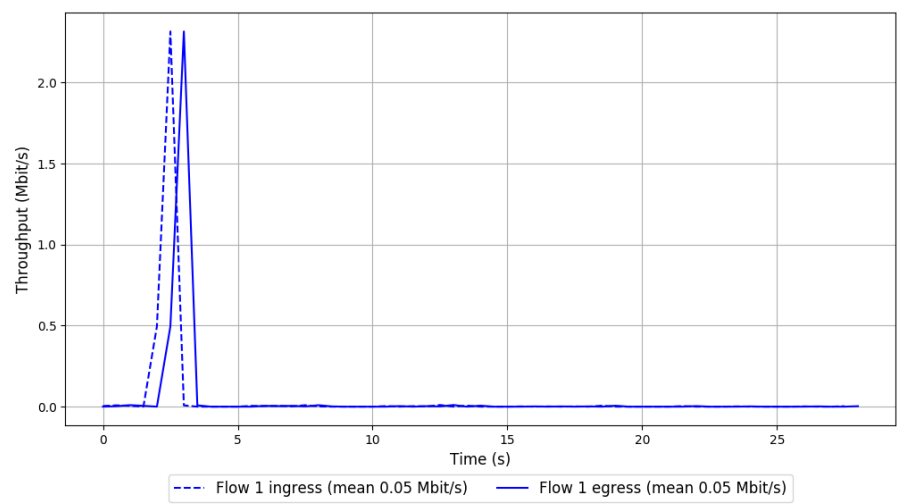


Run 1: Statistics of WebRTC media

Start at: 2019-11-23 22:24:16  
End at: 2019-11-23 22:24:46  
Local clock offset: -14.294 ms  
Remote clock offset: 6.276 ms

# Below is generated by plot.py at 2019-11-24 07:14:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 33.156 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 33.156 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



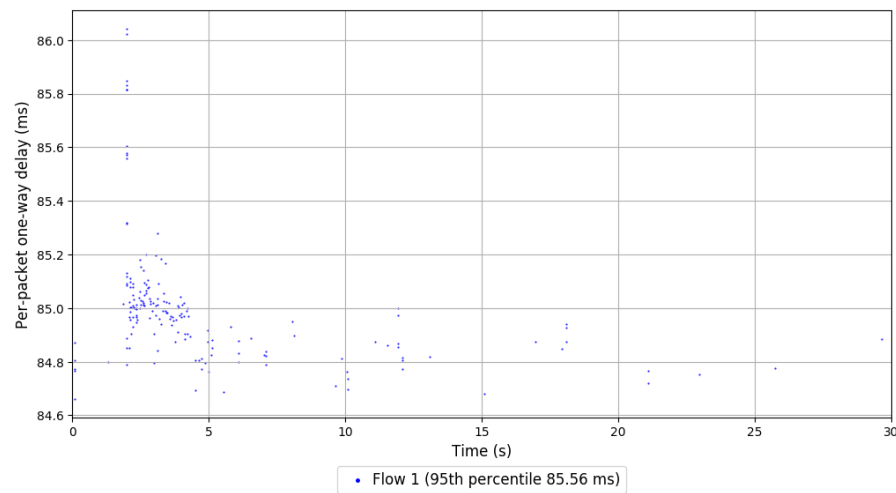
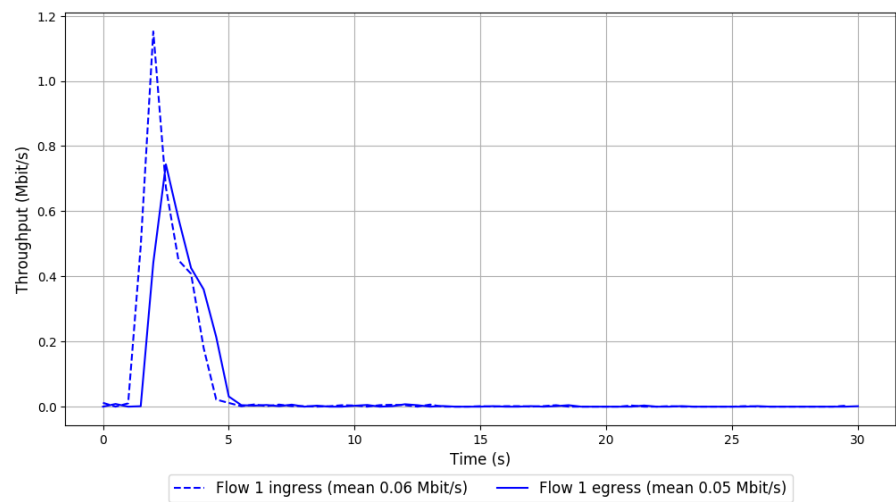


Run 2: Statistics of WebRTC media

Start at: 2019-11-23 23:26:00  
End at: 2019-11-23 23:26:30  
Local clock offset: -20.107 ms  
Remote clock offset: 6.551 ms

# Below is generated by plot.py at 2019-11-24 07:14:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 85.559 ms  
Loss rate: 17.62%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 85.559 ms  
Loss rate: 17.62%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-11-24 00:16:53

End at: 2019-11-24 00:17:23

Local clock offset: -6.197 ms

Remote clock offset: 5.727 ms

# Below is generated by plot.py at 2019-11-24 07:14:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 34.847 ms

Loss rate: 0.00%

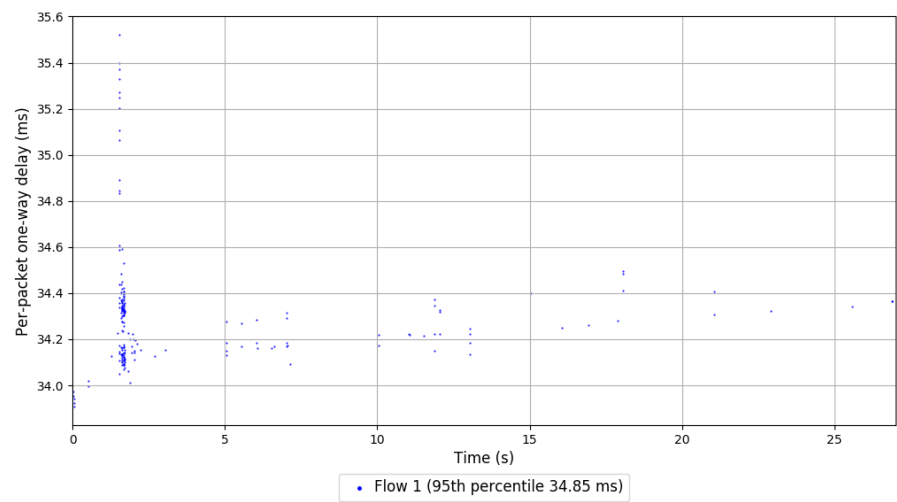
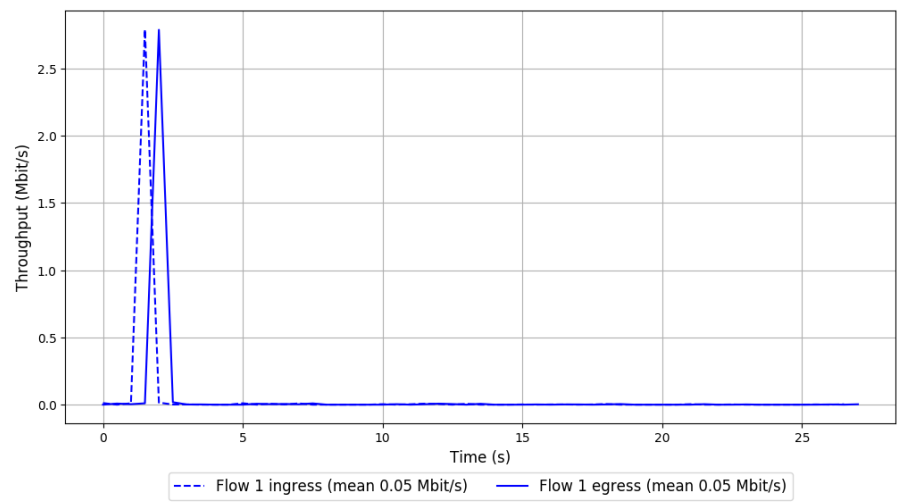
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 34.847 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-11-24 01:27:02

End at: 2019-11-24 01:27:32

Local clock offset: 1.057 ms

Remote clock offset: 5.945 ms

# Below is generated by plot.py at 2019-11-24 07:14:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 34.879 ms

Loss rate: 0.00%

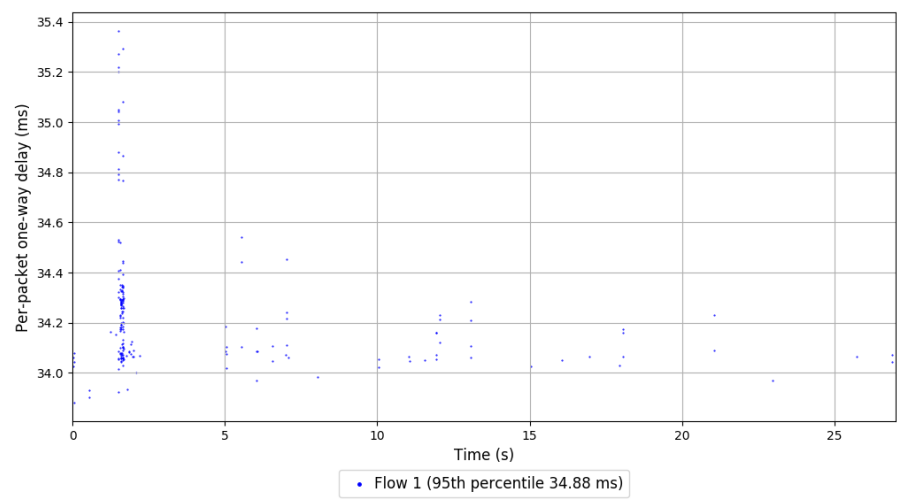
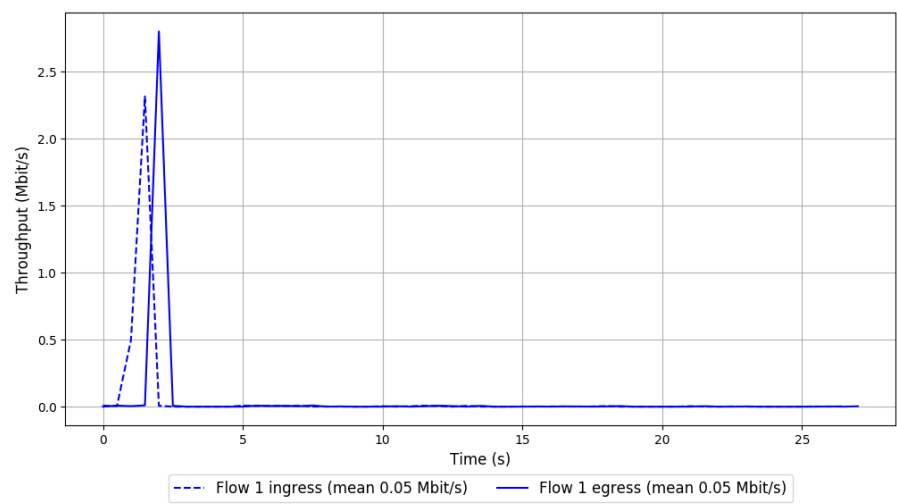
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 34.879 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-11-24 05:20:44

End at: 2019-11-24 05:21:14

Local clock offset: 2.705 ms

Remote clock offset: 4.081 ms

# Below is generated by plot.py at 2019-11-24 07:14:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 34.551 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 34.551 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

