

## Pantheon Report

Generated at 2019-10-03 10:38:47 (UTC).

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

Repeated the test of 24 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

### System info:

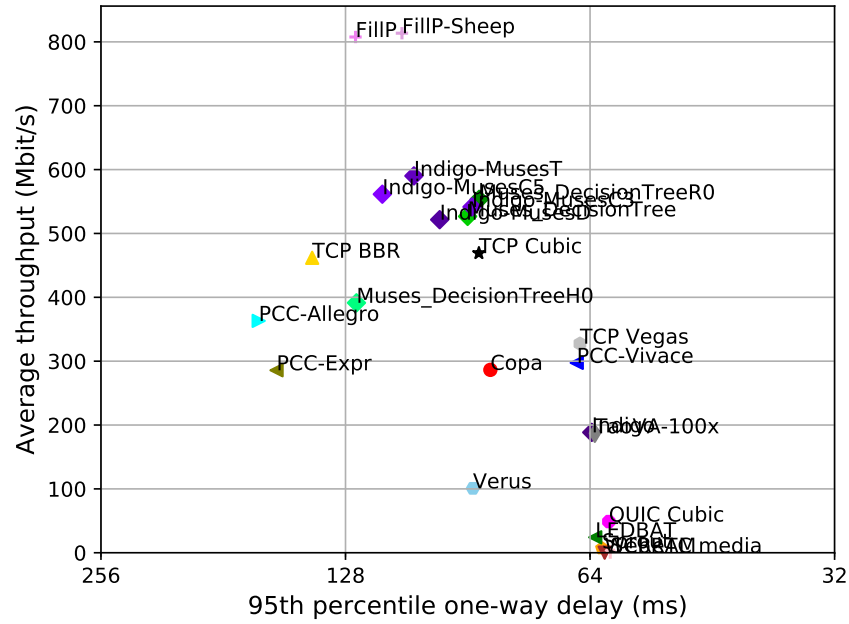
```
Linux 4.15.0-1044-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

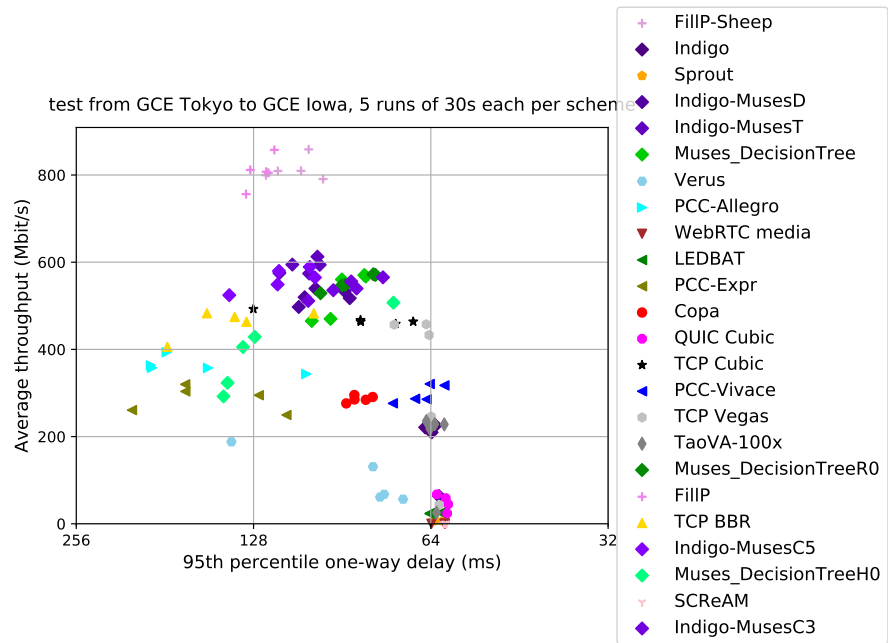
### Git summary:

```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
```

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

test from GCE Tokyo to GCE Iowa, 5 runs of 30s each per scheme  
(mean of all runs by scheme)







scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	461.89	140.68	0.80
Copa	5	286.39	84.90	0.47
TCP Cubic	5	469.15	87.70	0.40
FillP	5	807.60	124.42	1.33
FillP-Sheep	5	813.57	109.07	0.63
Indigo	5	188.50	63.69	0.48
Indigo-MusesC3	5	541.58	89.43	0.48
Indigo-MusesC5	5	561.45	115.32	0.56
Indigo-MusesD	5	521.55	98.01	0.49
Indigo-MusesT	5	590.10	105.44	0.53
LEDBAT	5	24.18	63.07	0.74
Muses_DecisionTree	5	526.70	90.55	0.49
Muses_DecisionTreeH0	5	391.38	124.09	1.16
Muses_DecisionTreeR0	5	553.40	87.64	0.48
PCC-Allegro	5	363.10	163.71	1.89
PCC-Expr	5	285.74	155.64	2.53
QUIC Cubic	4	48.83	60.68	0.67
SCReAM	5	0.22	60.44	0.38
Sprout	5	6.98	61.87	0.40
TaoVA-100x	5	186.98	63.14	0.35
TCP Vegas	5	327.39	65.86	0.32
Verus	5	100.87	89.20	0.09
PCC-Vivace	5	297.35	66.46	0.49
WebRTC media	4	0.05	61.40	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-10-03 05:53:40

End at: 2019-10-03 05:54:10

Local clock offset: 0.076 ms

Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2019-10-03 08:48:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 482.68 Mbit/s

95th percentile per-packet one-way delay: 101.138 ms

Loss rate: 0.56%

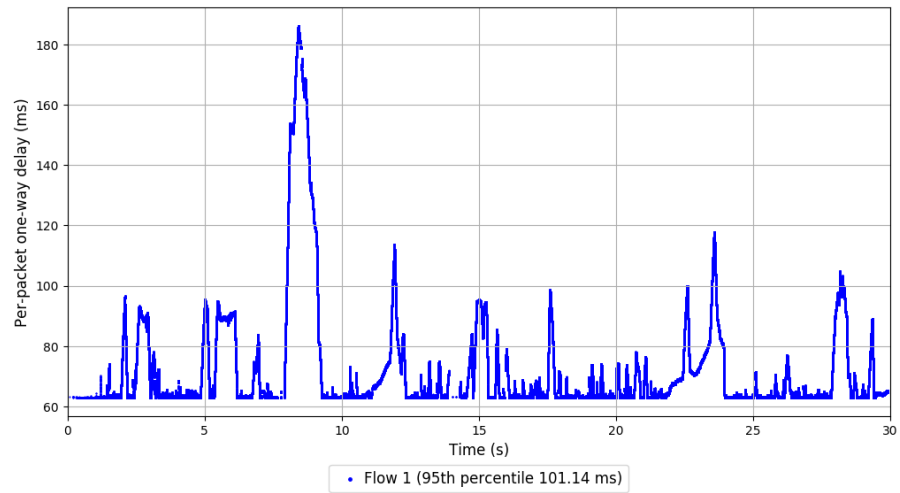
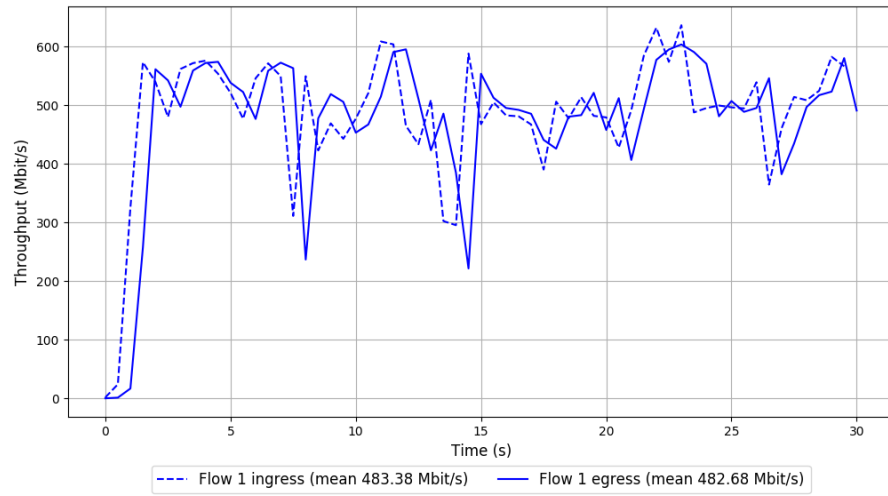
-- Flow 1:

Average throughput: 482.68 Mbit/s

95th percentile per-packet one-way delay: 101.138 ms

Loss rate: 0.56%

# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-10-03 06:28:08

End at: 2019-10-03 06:28:38

Local clock offset: -0.068 ms

Remote clock offset: 0.1 ms

# Below is generated by plot.py at 2019-10-03 08:48:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 482.95 Mbit/s

95th percentile per-packet one-way delay: 153.574 ms

Loss rate: 0.85%

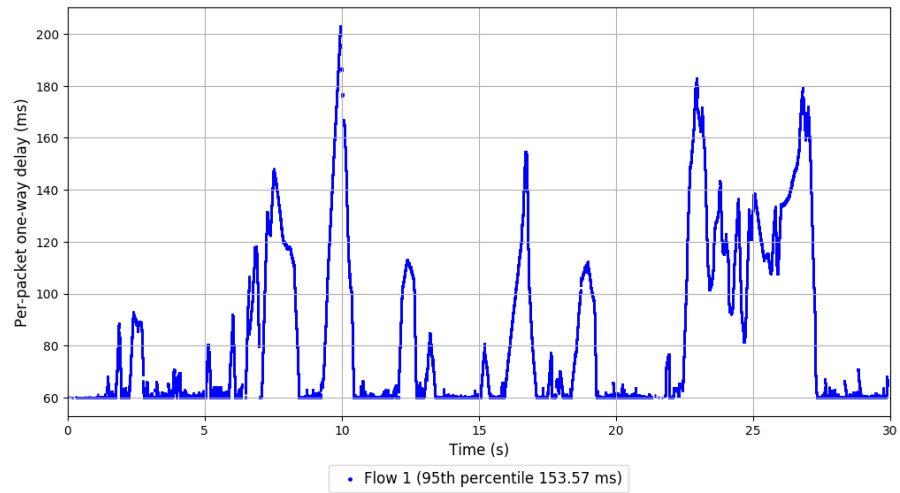
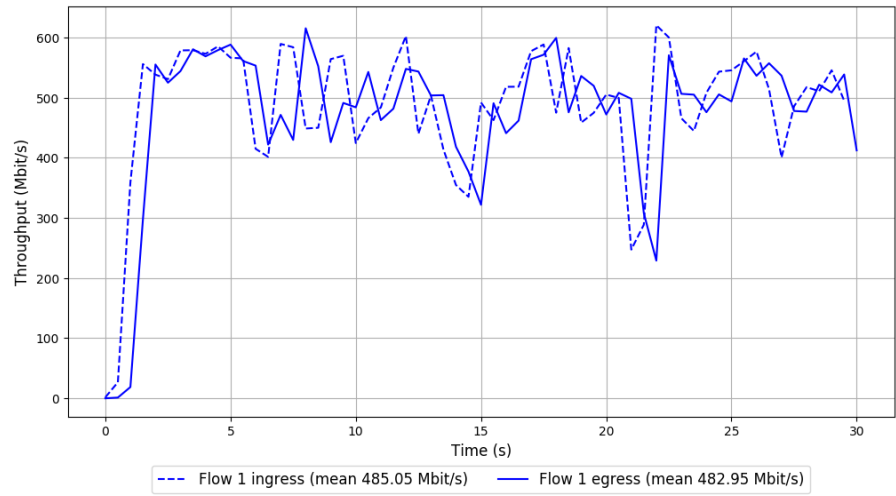
-- Flow 1:

Average throughput: 482.95 Mbit/s

95th percentile per-packet one-way delay: 153.574 ms

Loss rate: 0.85%

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



Run 3: Statistics of TCP BBR

Start at: 2019-10-03 07:03:12

End at: 2019-10-03 07:03:42

Local clock offset: -0.1 ms

Remote clock offset: -0.195 ms

# Below is generated by plot.py at 2019-10-03 08:48:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 405.83 Mbit/s

95th percentile per-packet one-way delay: 179.292 ms

Loss rate: 1.17%

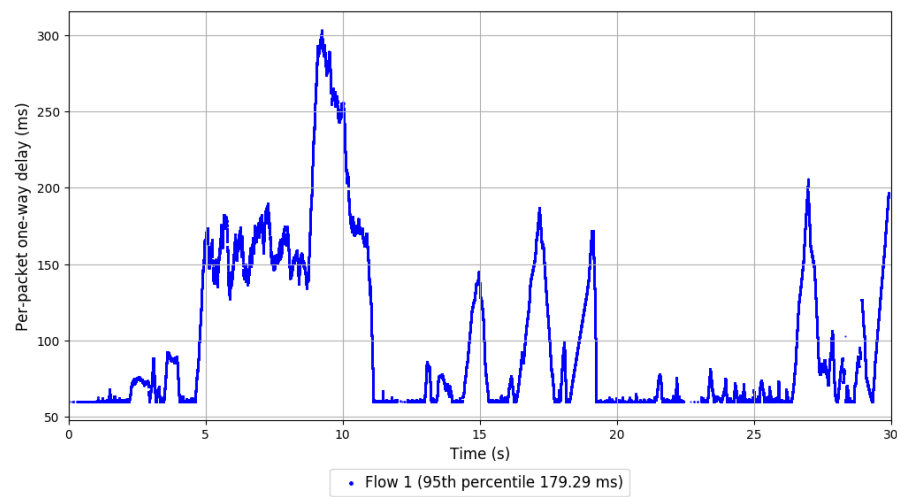
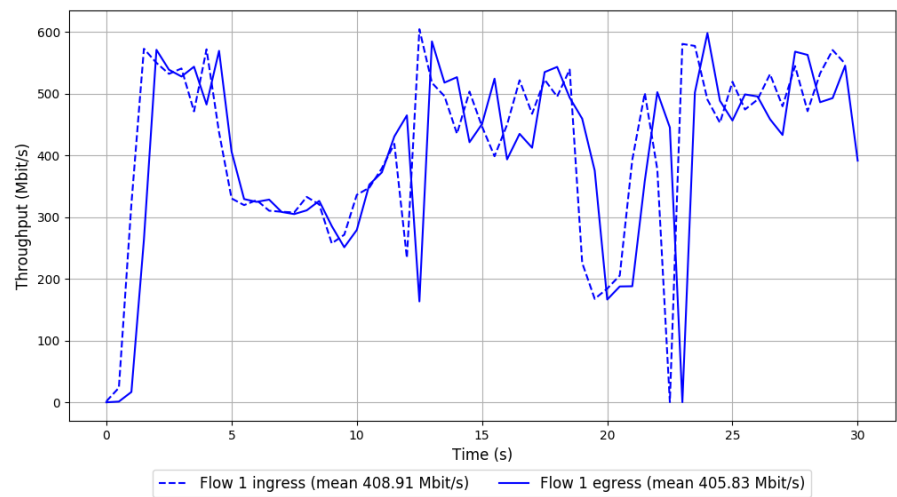
-- Flow 1:

Average throughput: 405.83 Mbit/s

95th percentile per-packet one-way delay: 179.292 ms

Loss rate: 1.17%

Run 3: Report of TCP BBR — Data Link



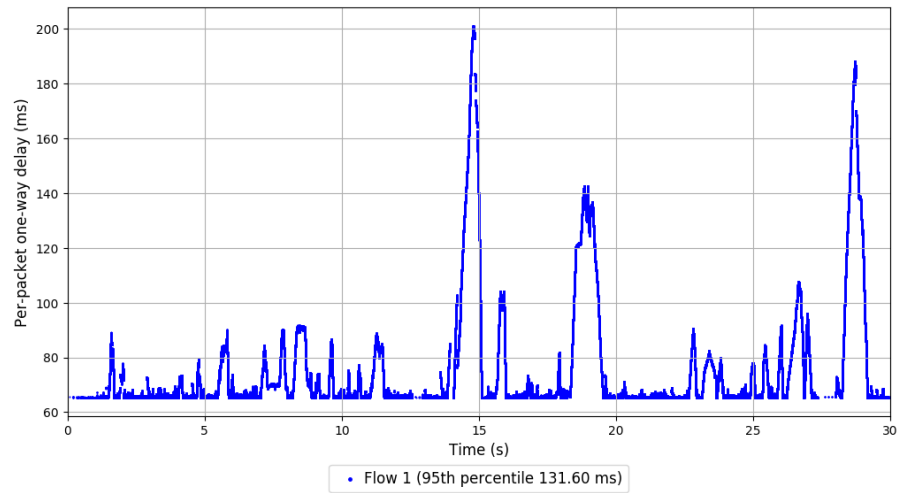
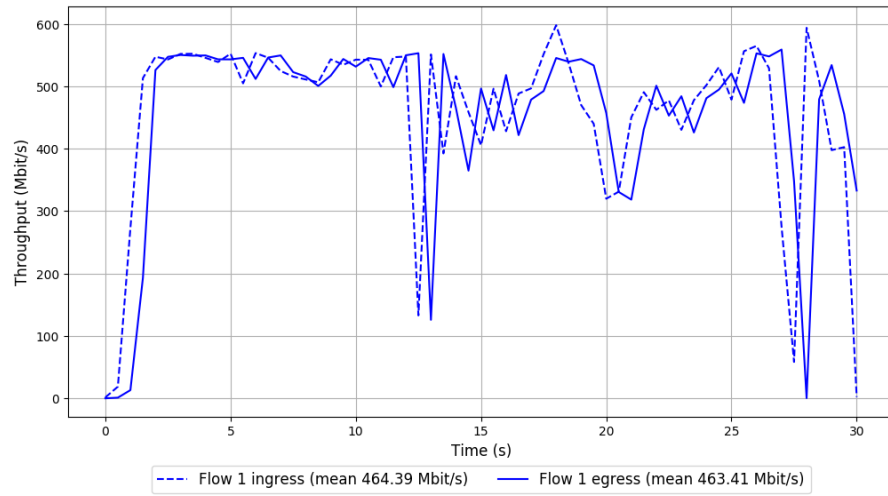
Run 4: Statistics of TCP BBR

Start at: 2019-10-03 07:37:54  
End at: 2019-10-03 07:38:24  
Local clock offset: -0.035 ms  
Remote clock offset: -0.177 ms

# Below is generated by plot.py at 2019-10-03 08:48:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 463.41 Mbit/s  
95th percentile per-packet one-way delay: 131.602 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 463.41 Mbit/s  
95th percentile per-packet one-way delay: 131.602 ms  
Loss rate: 0.65%



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

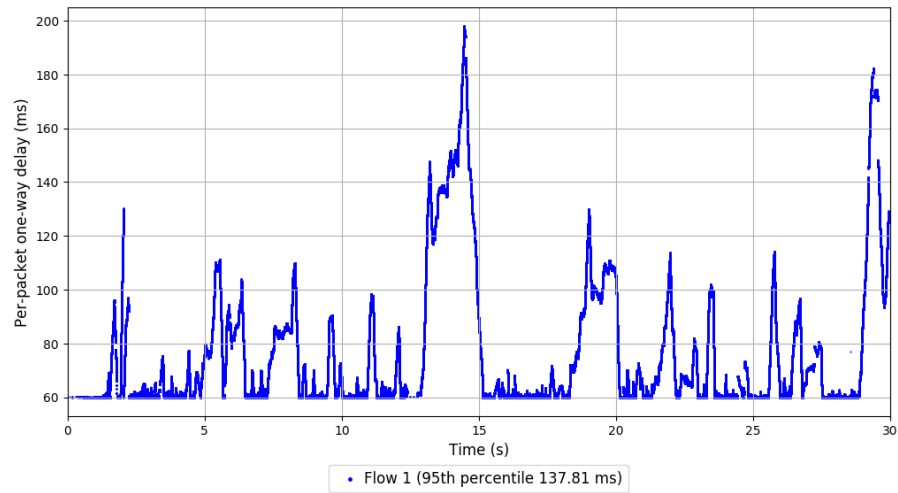
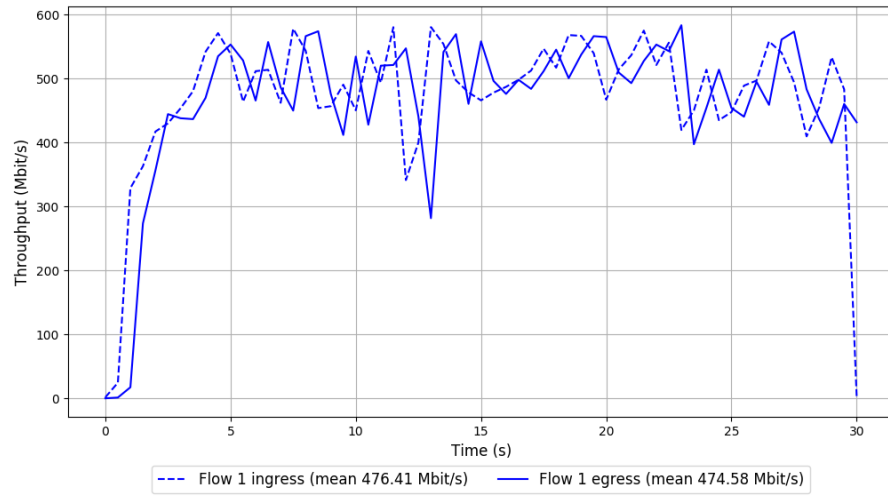


Run 5: Statistics of TCP BBR

Start at: 2019-10-03 08:12:22  
End at: 2019-10-03 08:12:52  
Local clock offset: -0.025 ms  
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2019-10-03 08:48:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 474.58 Mbit/s  
95th percentile per-packet one-way delay: 137.808 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 474.58 Mbit/s  
95th percentile per-packet one-way delay: 137.808 ms  
Loss rate: 0.79%

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

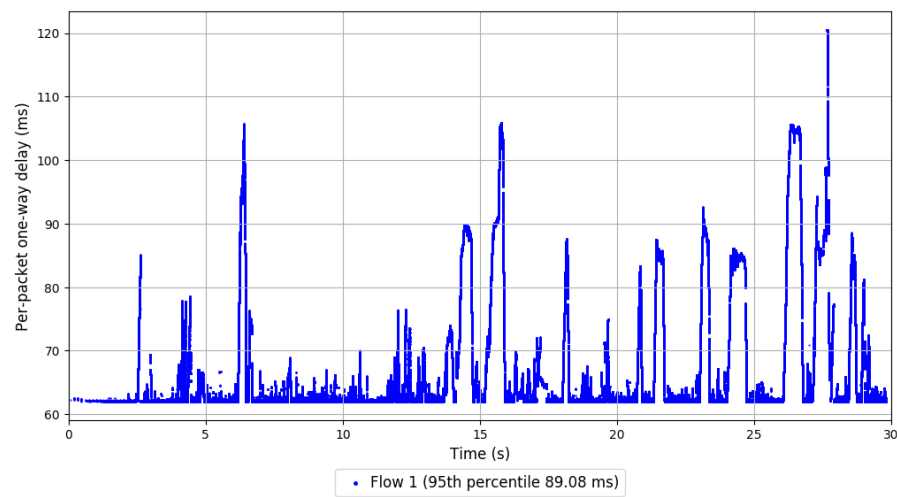
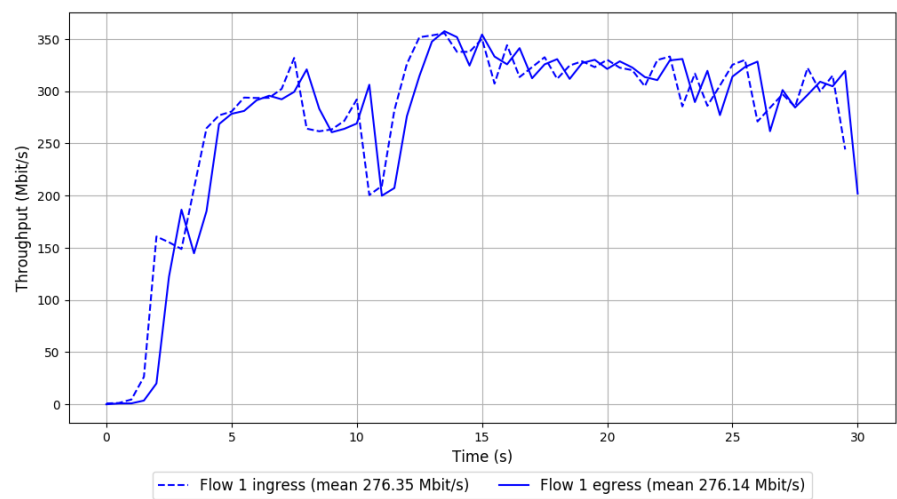


Run 1: Statistics of Copa

Start at: 2019-10-03 05:36:58  
End at: 2019-10-03 05:37:28  
Local clock offset: 0.006 ms  
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2019-10-03 08:49:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 276.14 Mbit/s  
95th percentile per-packet one-way delay: 89.079 ms  
Loss rate: 0.50%  
-- Flow 1:  
Average throughput: 276.14 Mbit/s  
95th percentile per-packet one-way delay: 89.079 ms  
Loss rate: 0.50%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-10-03 06:11:19

End at: 2019-10-03 06:11:49

Local clock offset: -0.029 ms

Remote clock offset: 0.056 ms

# Below is generated by plot.py at 2019-10-03 08:49:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 285.22 Mbit/s

95th percentile per-packet one-way delay: 86.256 ms

Loss rate: 0.47%

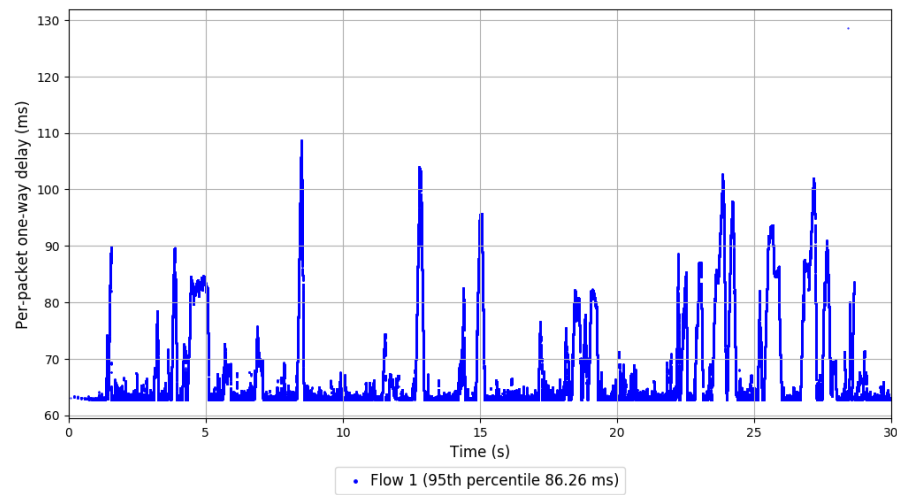
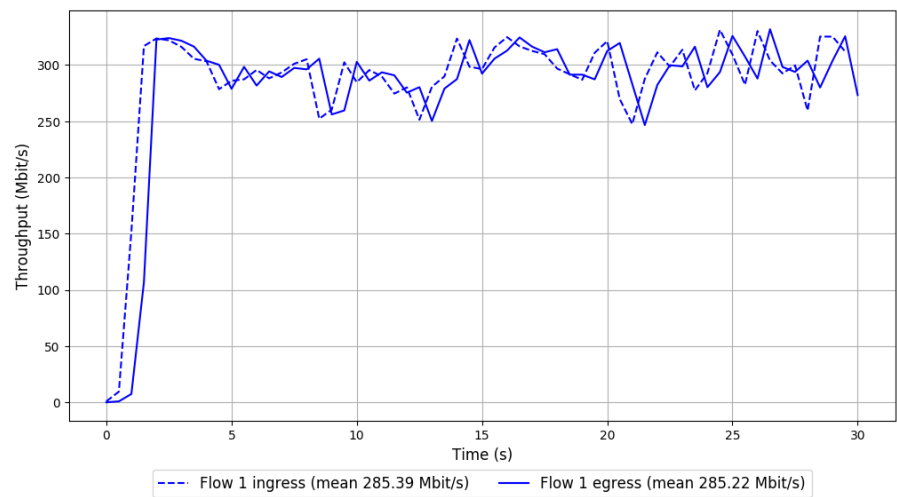
-- Flow 1:

Average throughput: 285.22 Mbit/s

95th percentile per-packet one-way delay: 86.256 ms

Loss rate: 0.47%

Run 2: Report of Copa — Data Link



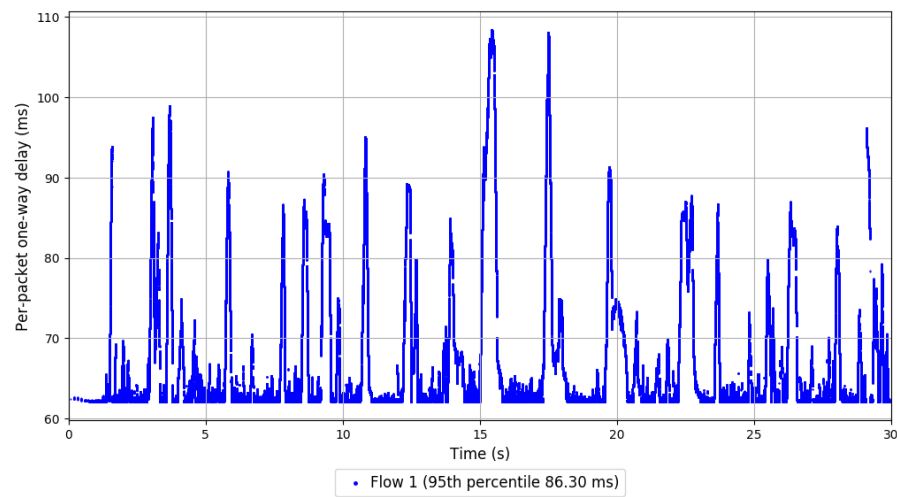
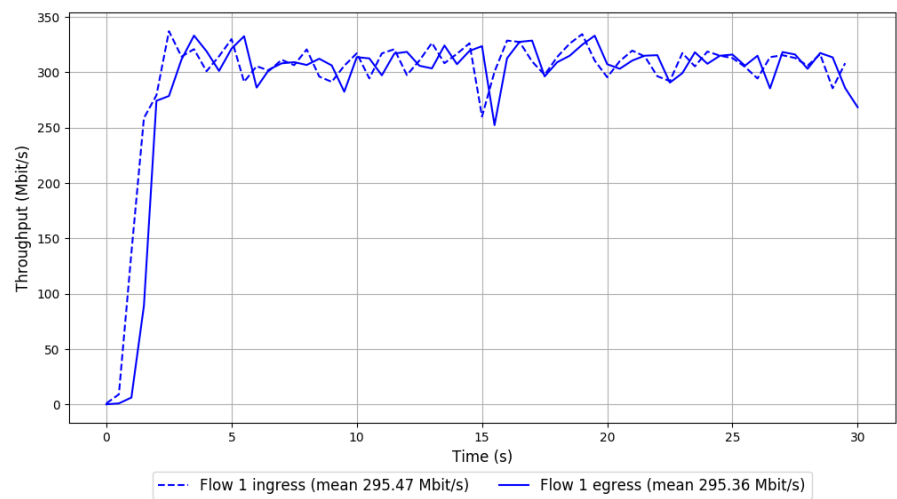
Run 3: Statistics of Copa

Start at: 2019-10-03 06:45:58  
End at: 2019-10-03 06:46:28  
Local clock offset: -0.062 ms  
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2019-10-03 08:49:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 295.36 Mbit/s  
95th percentile per-packet one-way delay: 86.301 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 295.36 Mbit/s  
95th percentile per-packet one-way delay: 86.301 ms  
Loss rate: 0.46%



Run 3: Report of Copa — Data Link

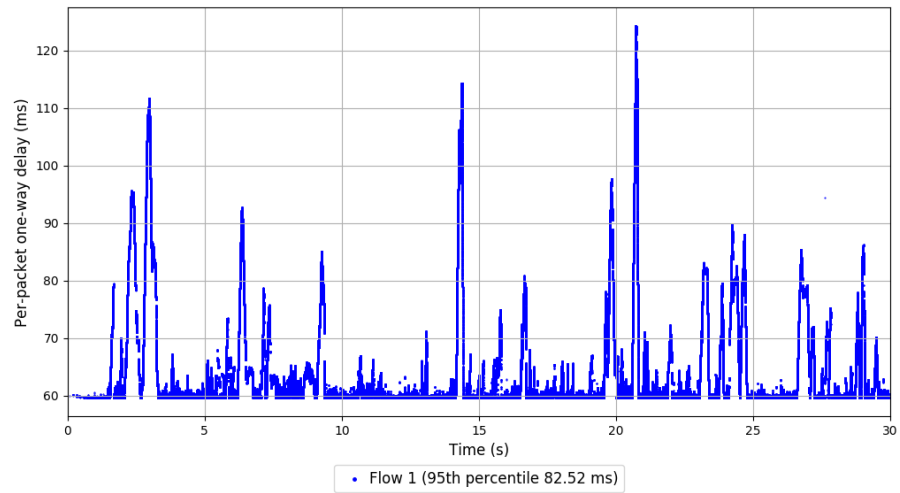
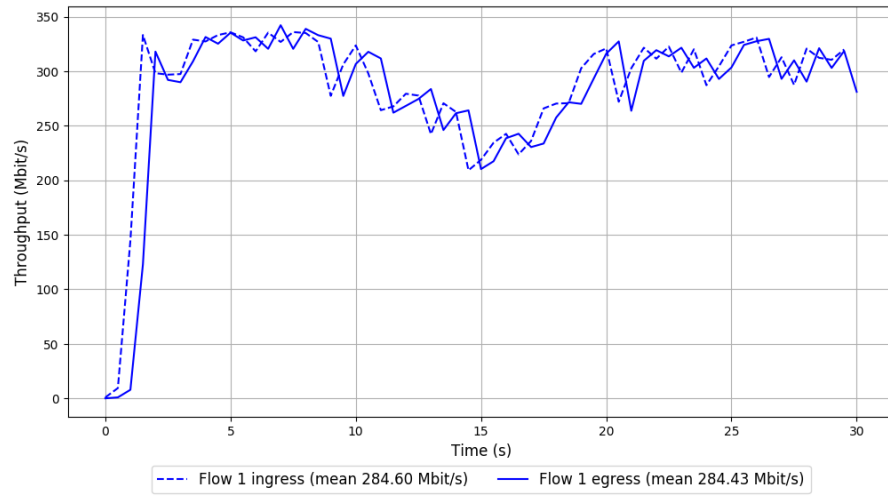


Run 4: Statistics of Copa

Start at: 2019-10-03 07:20:53  
End at: 2019-10-03 07:21:23  
Local clock offset: -0.078 ms  
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2019-10-03 08:57:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 284.43 Mbit/s  
95th percentile per-packet one-way delay: 82.518 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 284.43 Mbit/s  
95th percentile per-packet one-way delay: 82.518 ms  
Loss rate: 0.47%

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

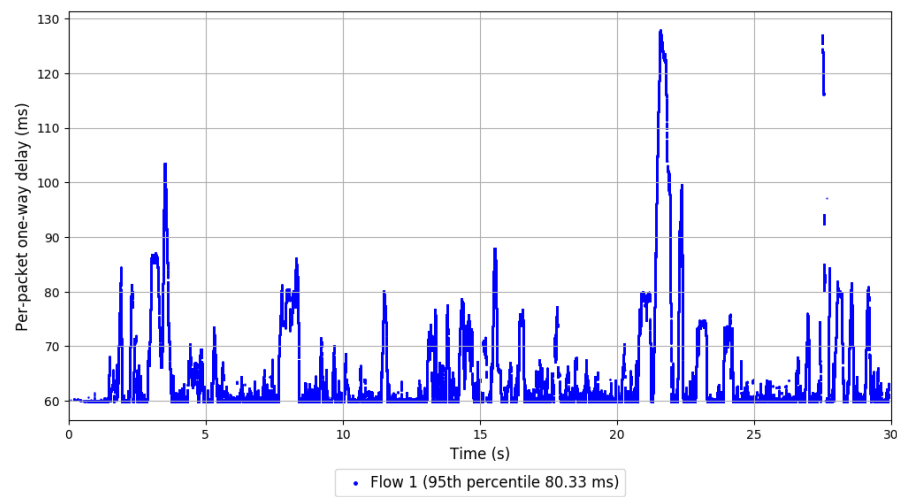
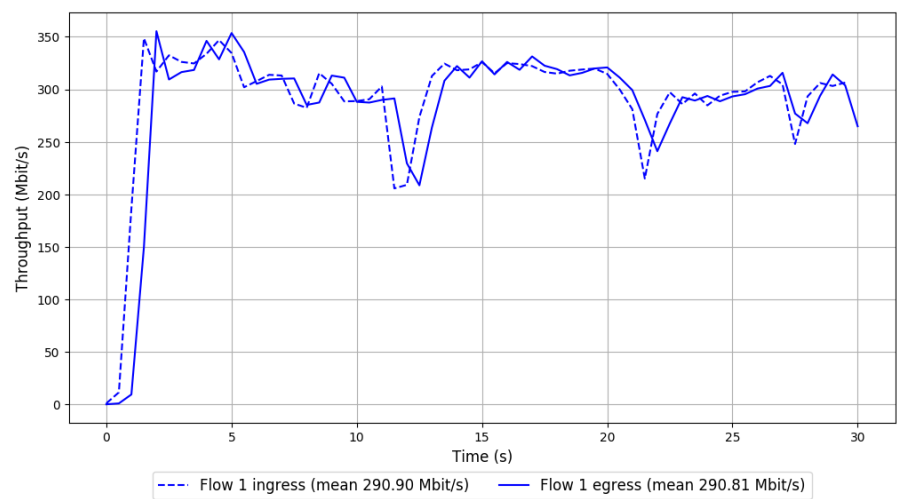


Run 5: Statistics of Copa

Start at: 2019-10-03 07:55:39  
End at: 2019-10-03 07:56:09  
Local clock offset: -0.055 ms  
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-10-03 08:58:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 290.81 Mbit/s  
95th percentile per-packet one-way delay: 80.329 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 290.81 Mbit/s  
95th percentile per-packet one-way delay: 80.329 ms  
Loss rate: 0.44%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-10-03 05:40:11

End at: 2019-10-03 05:40:41

Local clock offset: 0.018 ms

Remote clock offset: 0.617 ms

# Below is generated by plot.py at 2019-10-03 08:58:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 463.71 Mbit/s

95th percentile per-packet one-way delay: 68.567 ms

Loss rate: 0.42%

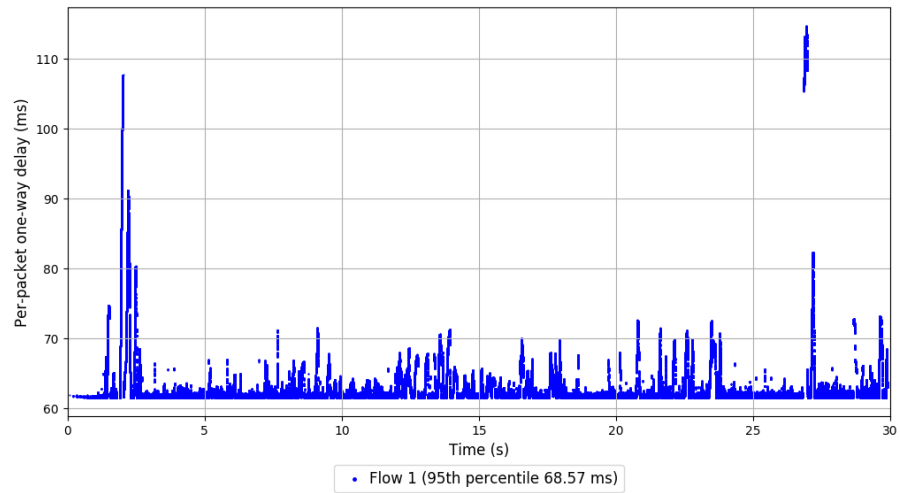
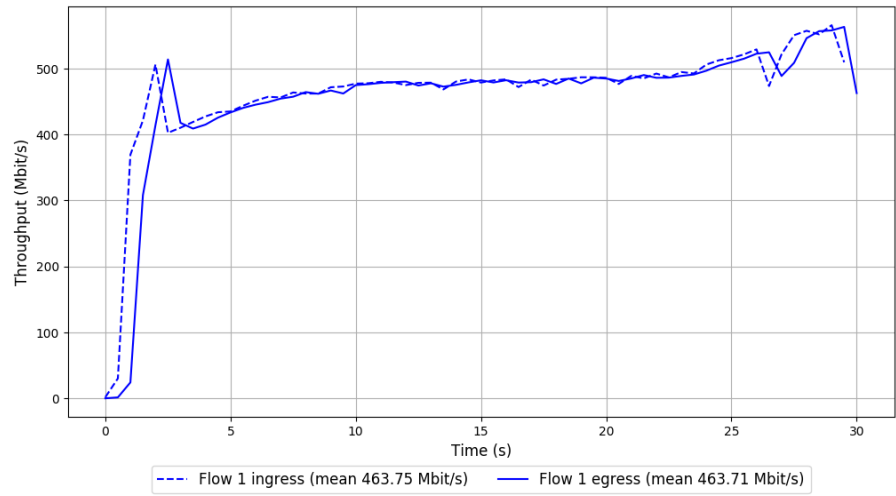
-- Flow 1:

Average throughput: 463.71 Mbit/s

95th percentile per-packet one-way delay: 68.567 ms

Loss rate: 0.42%

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



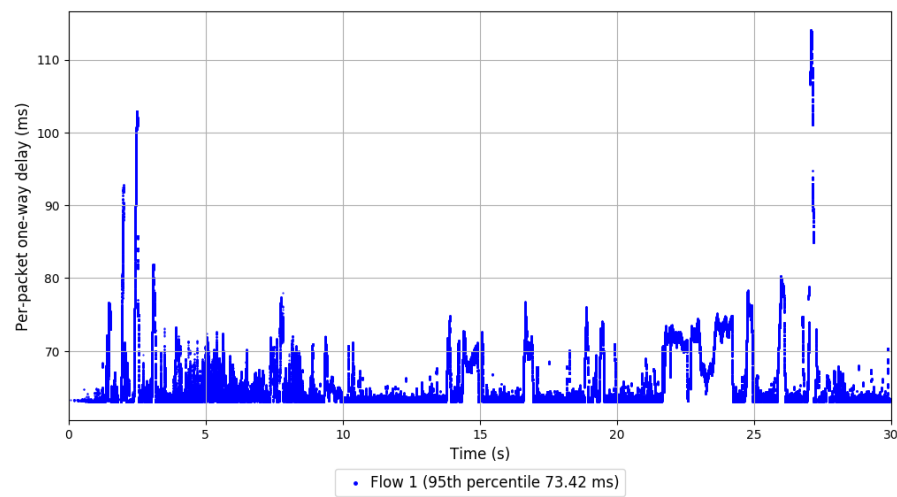
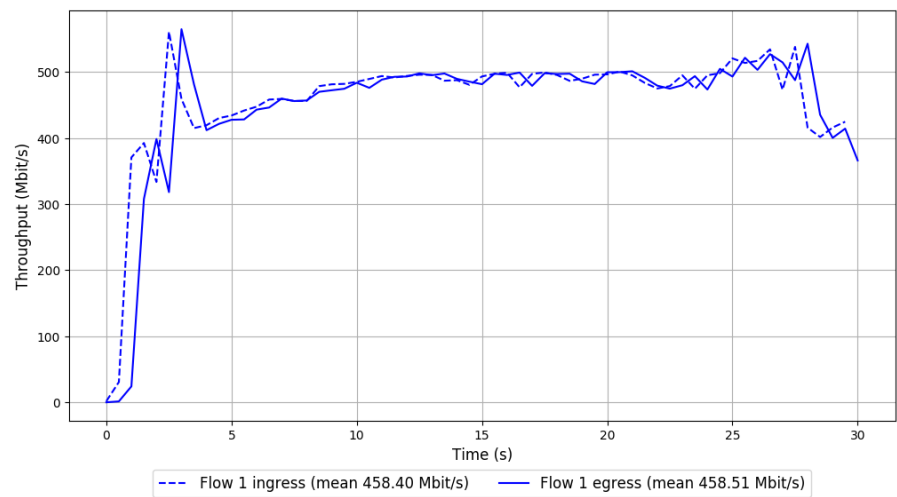
Run 2: Statistics of TCP Cubic

Start at: 2019-10-03 06:14:36  
End at: 2019-10-03 06:15:06  
Local clock offset: -0.07 ms  
Remote clock offset: -0.655 ms

# Below is generated by plot.py at 2019-10-03 08:58:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 458.51 Mbit/s  
95th percentile per-packet one-way delay: 73.418 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 458.51 Mbit/s  
95th percentile per-packet one-way delay: 73.418 ms  
Loss rate: 0.39%



Run 2: Report of TCP Cubic — Data Link

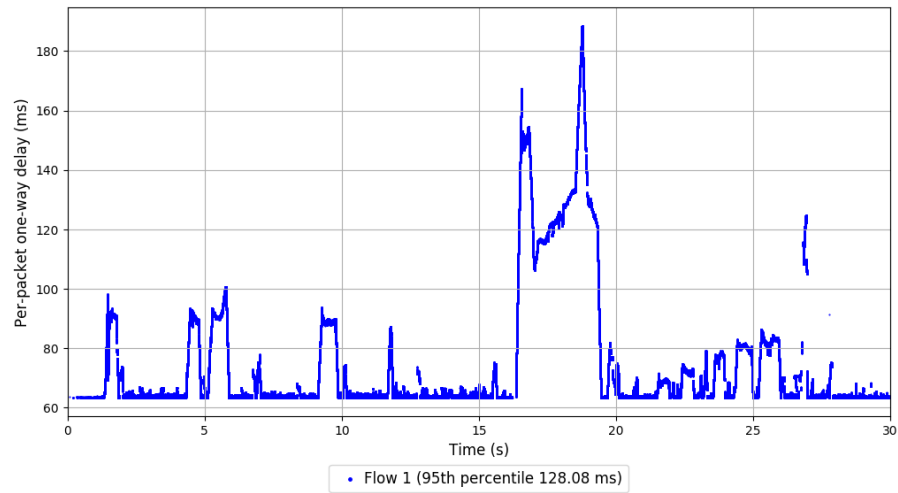
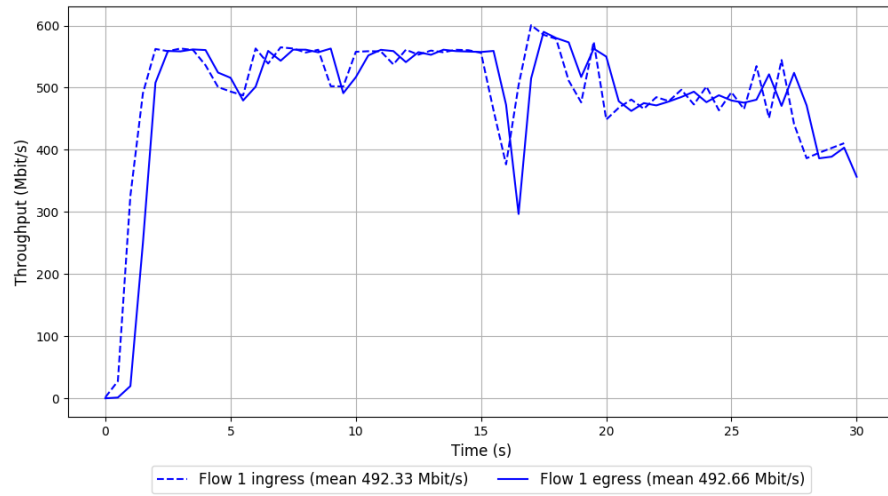


Run 3: Statistics of TCP Cubic

Start at: 2019-10-03 06:49:13  
End at: 2019-10-03 06:49:43  
Local clock offset: -0.075 ms  
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2019-10-03 08:58:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 492.66 Mbit/s  
95th percentile per-packet one-way delay: 128.081 ms  
Loss rate: 0.35%  
-- Flow 1:  
Average throughput: 492.66 Mbit/s  
95th percentile per-packet one-way delay: 128.081 ms  
Loss rate: 0.35%

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

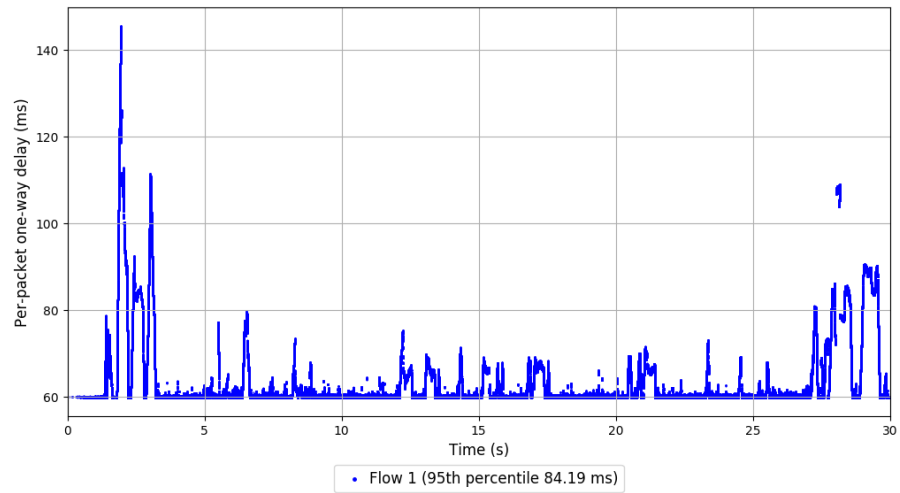
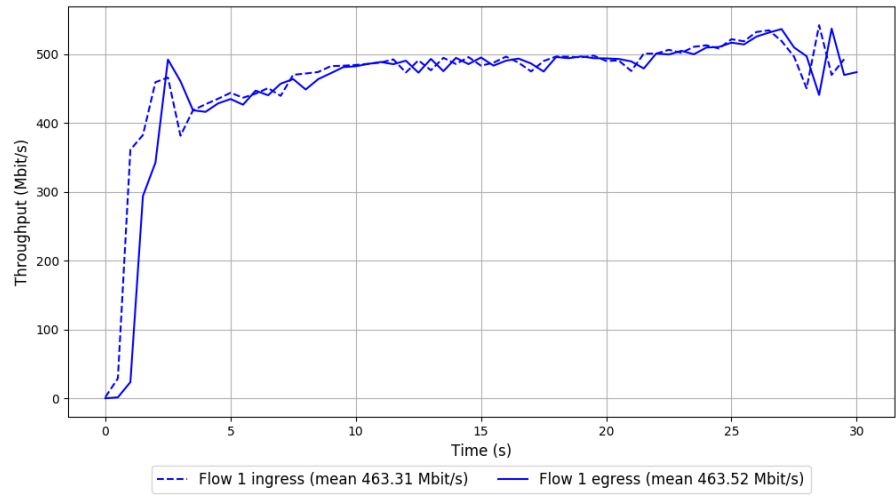


Run 4: Statistics of TCP Cubic

Start at: 2019-10-03 07:24:07  
End at: 2019-10-03 07:24:37  
Local clock offset: -0.032 ms  
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2019-10-03 08:58:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 463.52 Mbit/s  
95th percentile per-packet one-way delay: 84.186 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 463.52 Mbit/s  
95th percentile per-packet one-way delay: 84.186 ms  
Loss rate: 0.37%

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

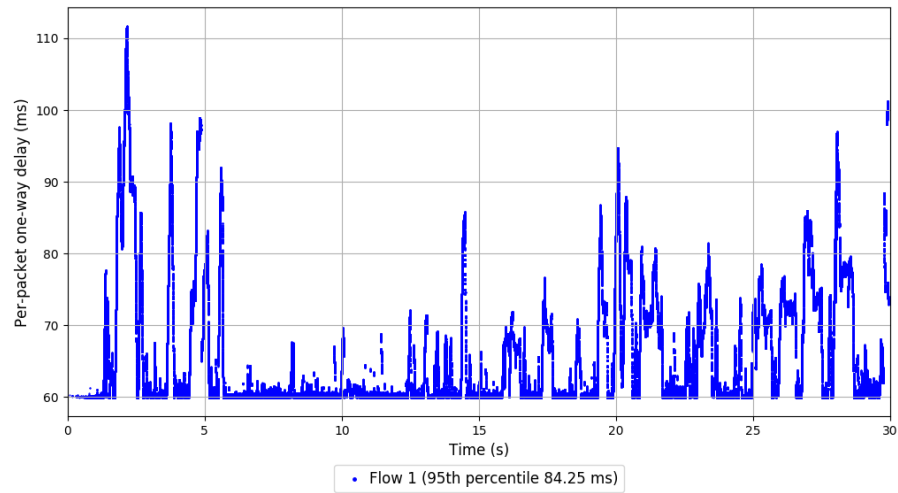
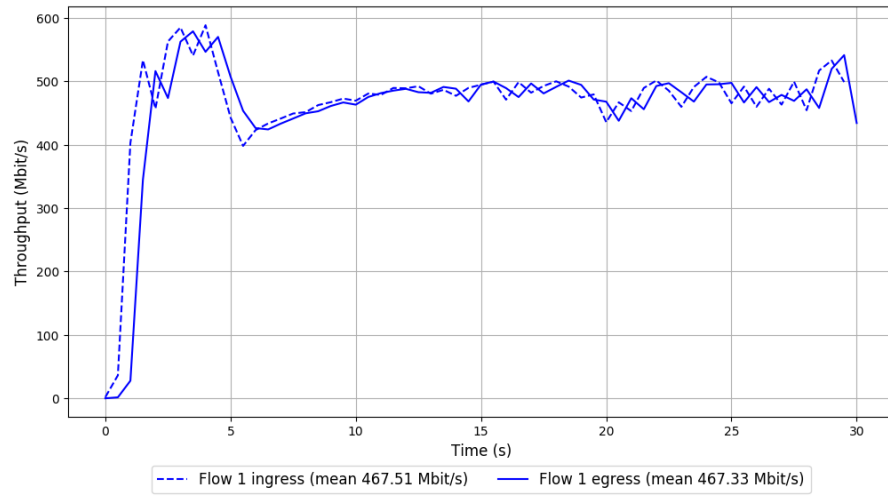


Run 5: Statistics of TCP Cubic

Start at: 2019-10-03 07:58:54  
End at: 2019-10-03 07:59:24  
Local clock offset: -0.045 ms  
Remote clock offset: -0.126 ms

# Below is generated by plot.py at 2019-10-03 08:58:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 467.33 Mbit/s  
95th percentile per-packet one-way delay: 84.253 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 467.33 Mbit/s  
95th percentile per-packet one-way delay: 84.253 ms  
Loss rate: 0.45%

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



Run 1: Statistics of FillP

Start at: 2019-10-03 06:02:54

End at: 2019-10-03 06:03:24

Local clock offset: 0.026 ms

Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2019-10-03 09:05:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 756.23 Mbit/s

95th percentile per-packet one-way delay: 131.811 ms

Loss rate: 2.13%

-- Flow 1:

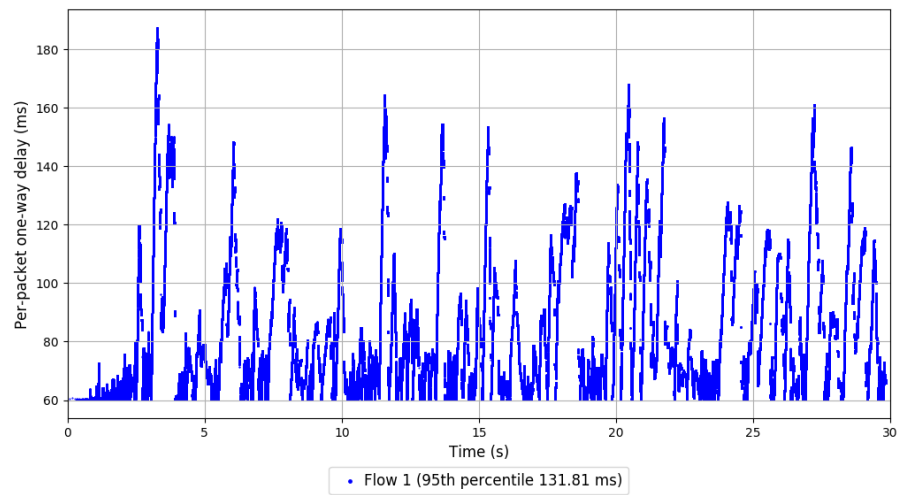
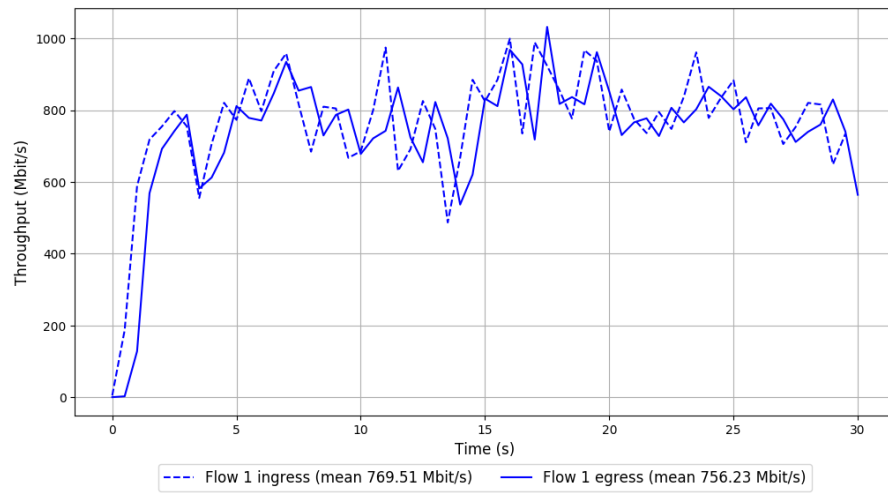
Average throughput: 756.23 Mbit/s

95th percentile per-packet one-way delay: 131.811 ms

Loss rate: 2.13%



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

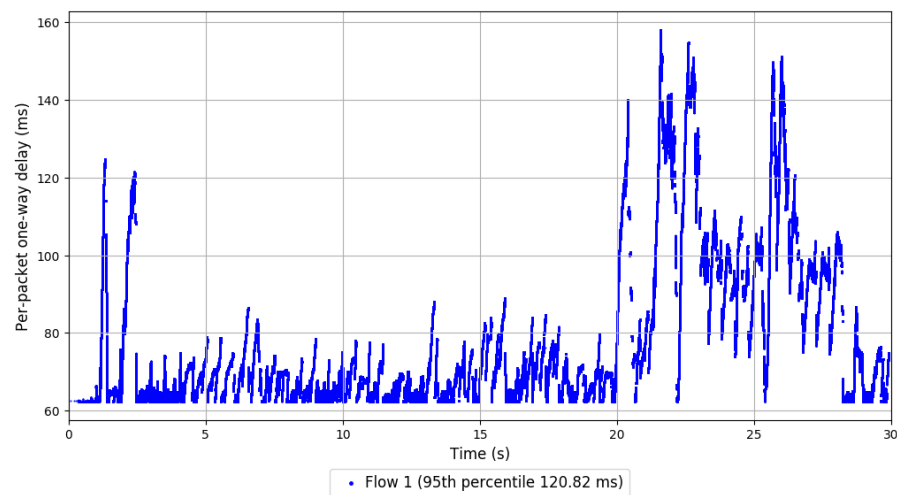
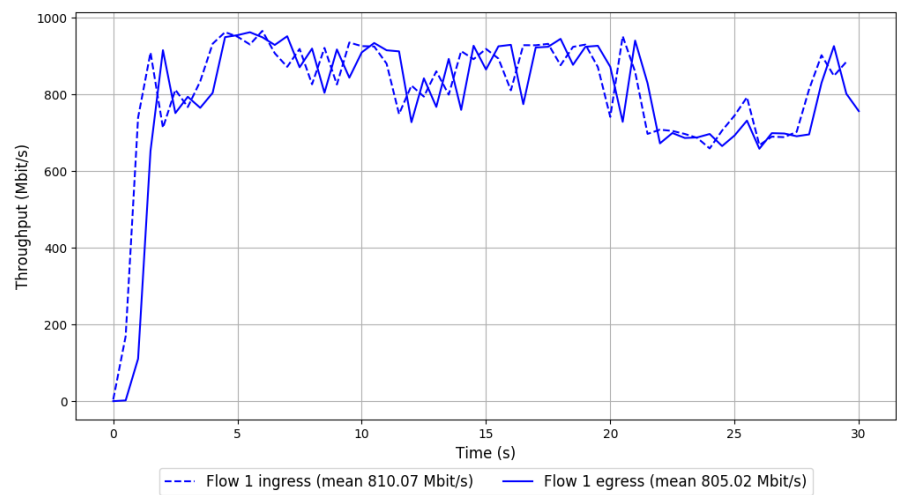


Run 2: Statistics of FillP

Start at: 2019-10-03 06:37:24  
End at: 2019-10-03 06:37:54  
Local clock offset: -0.057 ms  
Remote clock offset: -0.199 ms

# Below is generated by plot.py at 2019-10-03 09:15:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 805.02 Mbit/s  
95th percentile per-packet one-way delay: 120.822 ms  
Loss rate: 1.05%  
-- Flow 1:  
Average throughput: 805.02 Mbit/s  
95th percentile per-packet one-way delay: 120.822 ms  
Loss rate: 1.05%

Run 2: Report of FillP — Data Link

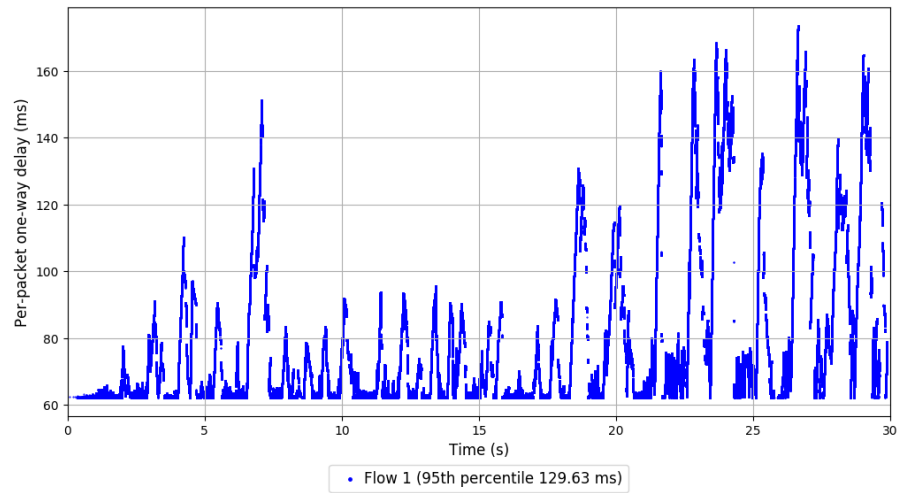
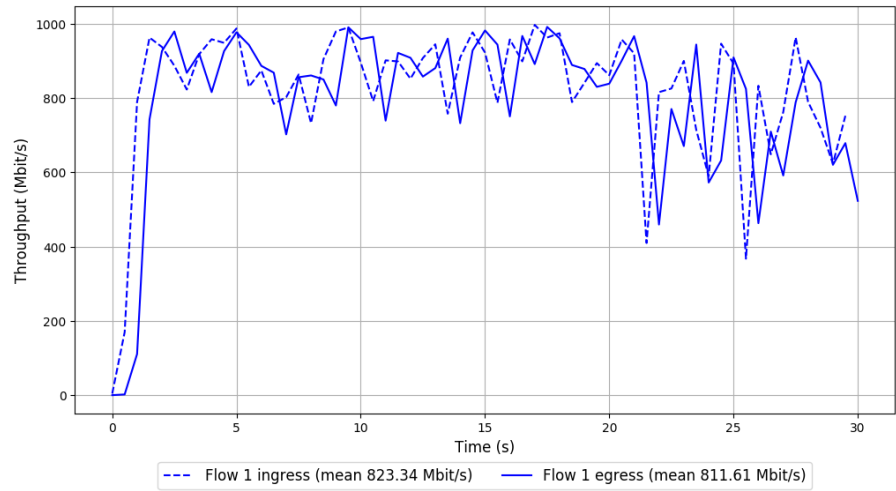


Run 3: Statistics of FillP

Start at: 2019-10-03 07:12:20  
End at: 2019-10-03 07:12:50  
Local clock offset: -0.047 ms  
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2019-10-03 09:15:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 811.61 Mbit/s  
95th percentile per-packet one-way delay: 129.633 ms  
Loss rate: 1.85%  
-- Flow 1:  
Average throughput: 811.61 Mbit/s  
95th percentile per-packet one-way delay: 129.633 ms  
Loss rate: 1.85%

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

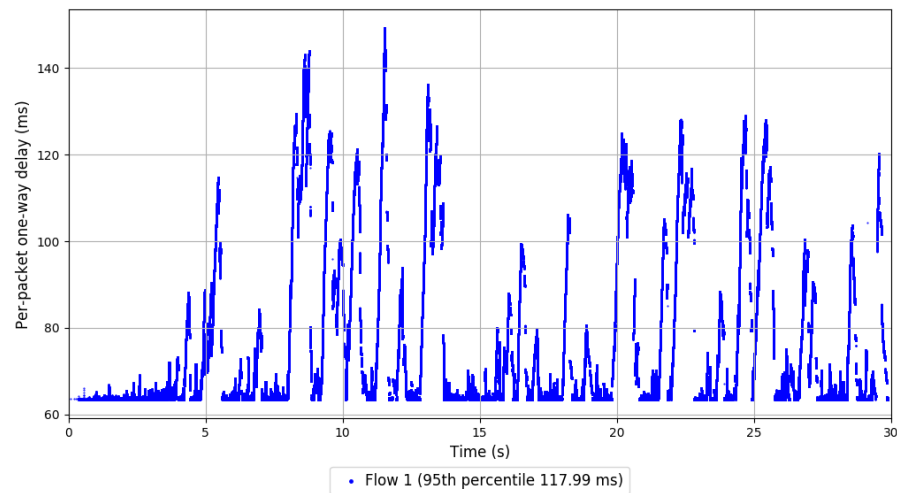
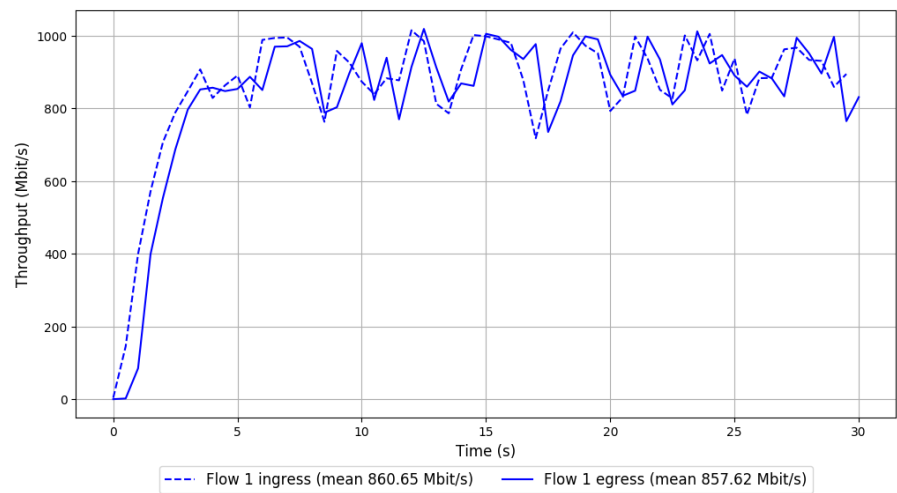


Run 4: Statistics of FillP

Start at: 2019-10-03 07:47:04  
End at: 2019-10-03 07:47:34  
Local clock offset: -0.049 ms  
Remote clock offset: -0.304 ms

# Below is generated by plot.py at 2019-10-03 09:16:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 857.62 Mbit/s  
95th percentile per-packet one-way delay: 117.992 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 857.62 Mbit/s  
95th percentile per-packet one-way delay: 117.992 ms  
Loss rate: 0.77%

Run 4: Report of FillP — Data Link



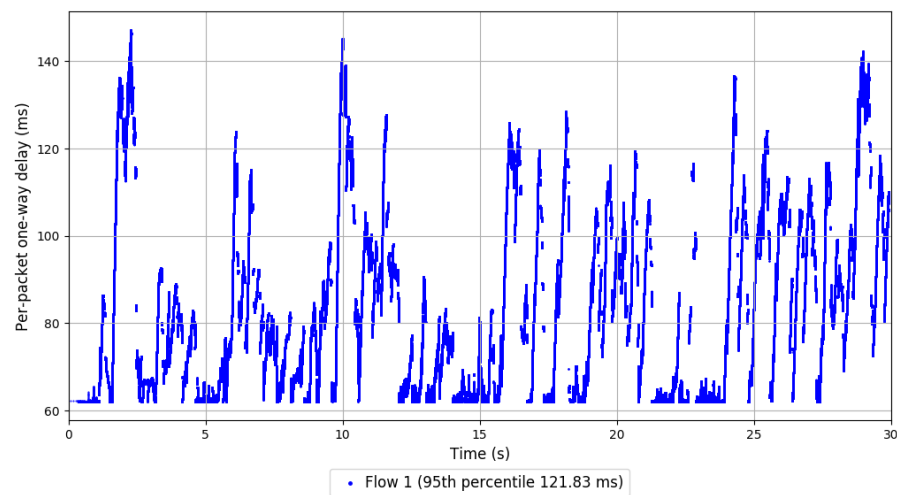
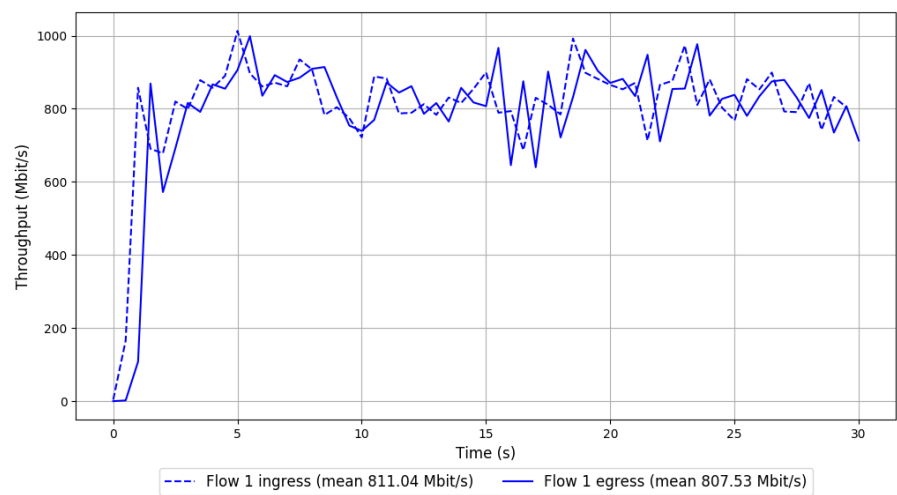
Run 5: Statistics of FillP

Start at: 2019-10-03 08:21:41  
End at: 2019-10-03 08:22:11  
Local clock offset: -0.026 ms  
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2019-10-03 09:16:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 807.53 Mbit/s  
95th percentile per-packet one-way delay: 121.826 ms  
Loss rate: 0.85%  
-- Flow 1:  
Average throughput: 807.53 Mbit/s  
95th percentile per-packet one-way delay: 121.826 ms  
Loss rate: 0.85%



Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-10-03 05:38:31

End at: 2019-10-03 05:39:01

Local clock offset: 0.055 ms

Remote clock offset: 0.426 ms

# Below is generated by plot.py at 2019-10-03 09:16:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 790.70 Mbit/s

95th percentile per-packet one-way delay: 97.538 ms

Loss rate: 0.42%

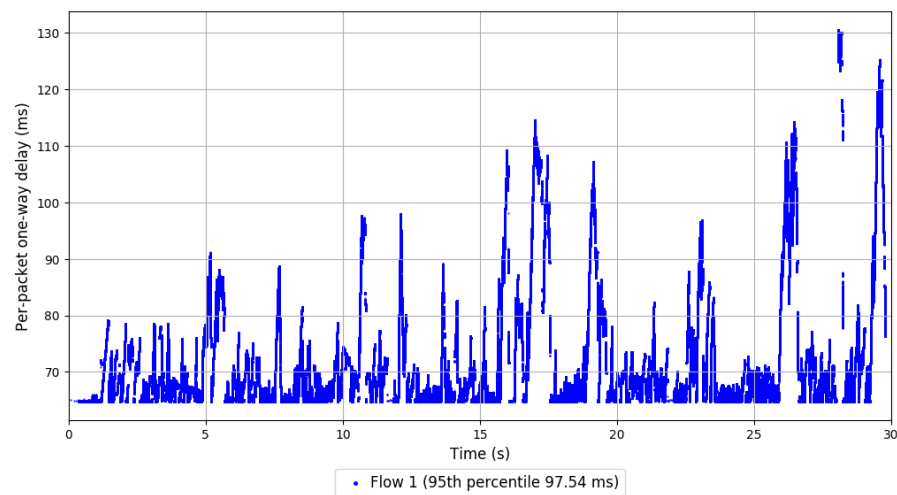
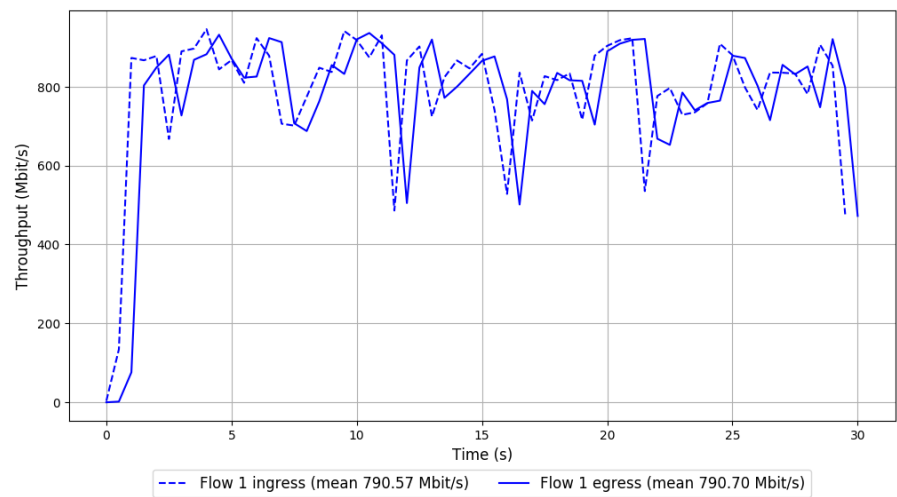
-- Flow 1:

Average throughput: 790.70 Mbit/s

95th percentile per-packet one-way delay: 97.538 ms

Loss rate: 0.42%

Run 1: Report of FillP-Sheep — Data Link

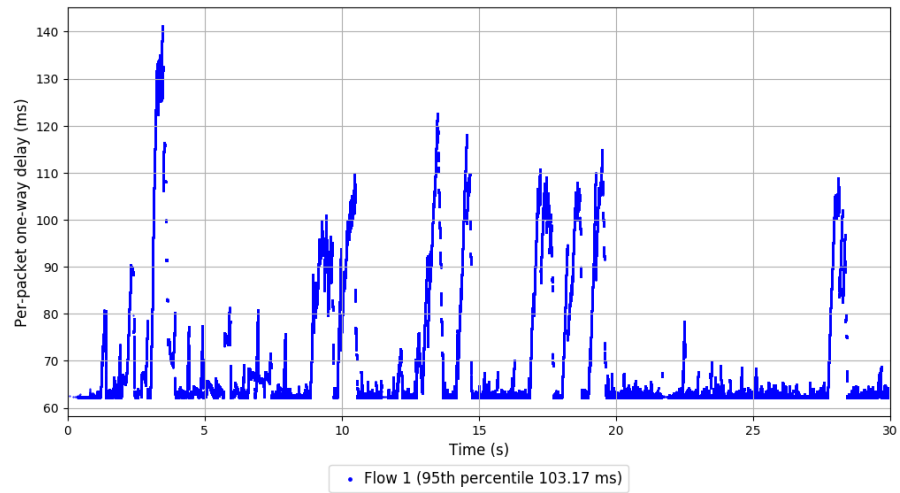
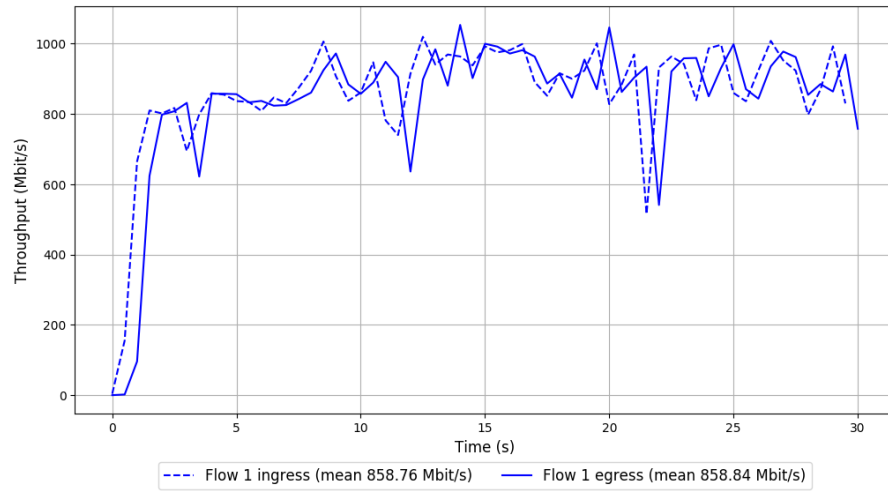


Run 2: Statistics of FillP-Sheep

Start at: 2019-10-03 06:12:53  
End at: 2019-10-03 06:13:23  
Local clock offset: -0.049 ms  
Remote clock offset: -0.176 ms

# Below is generated by plot.py at 2019-10-03 09:17:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 858.84 Mbit/s  
95th percentile per-packet one-way delay: 103.170 ms  
Loss rate: 0.40%  
-- Flow 1:  
Average throughput: 858.84 Mbit/s  
95th percentile per-packet one-way delay: 103.170 ms  
Loss rate: 0.40%

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



Run 3: Statistics of FillP-Sheep

Start at: 2019-10-03 06:47:33

End at: 2019-10-03 06:48:03

Local clock offset: -0.074 ms

Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2019-10-03 09:17:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 809.58 Mbit/s

95th percentile per-packet one-way delay: 106.312 ms

Loss rate: 0.88%

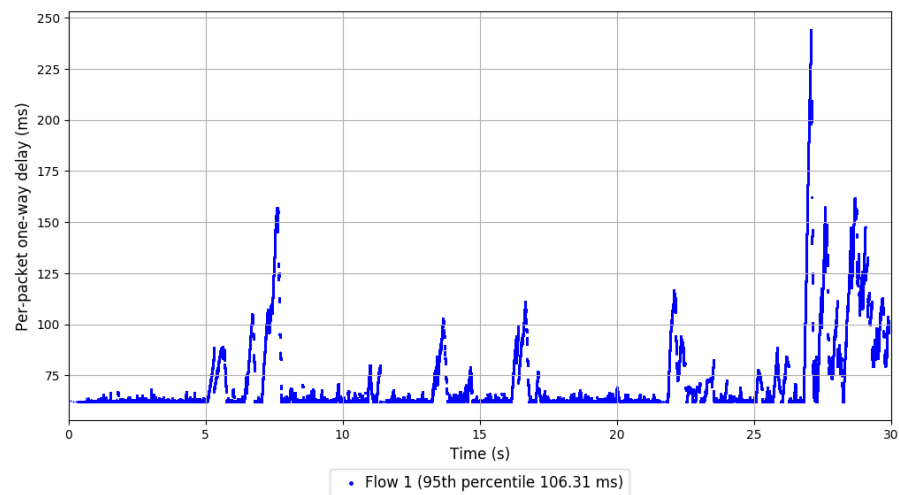
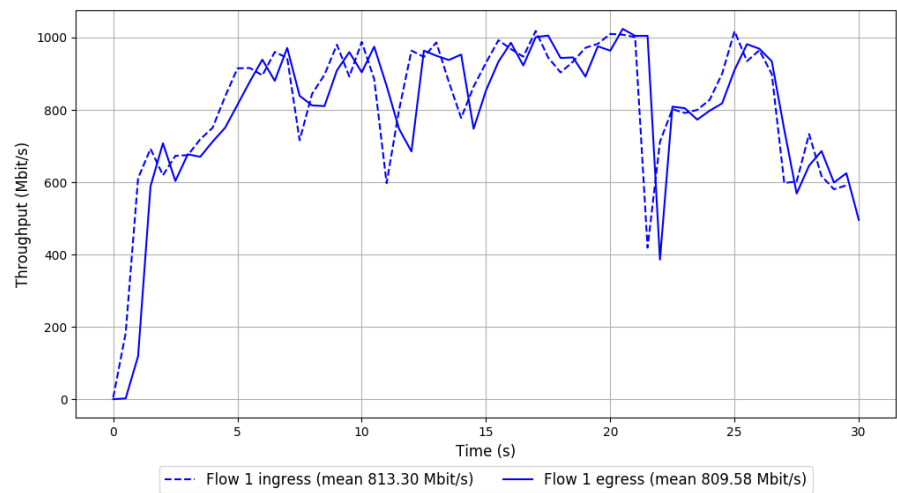
-- Flow 1:

Average throughput: 809.58 Mbit/s

95th percentile per-packet one-way delay: 106.312 ms

Loss rate: 0.88%

Run 3: Report of FillP-Sheep — Data Link



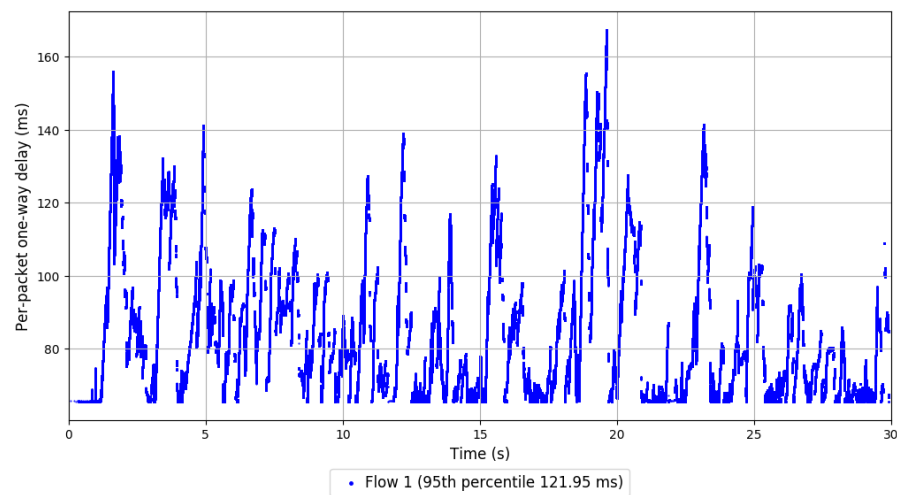
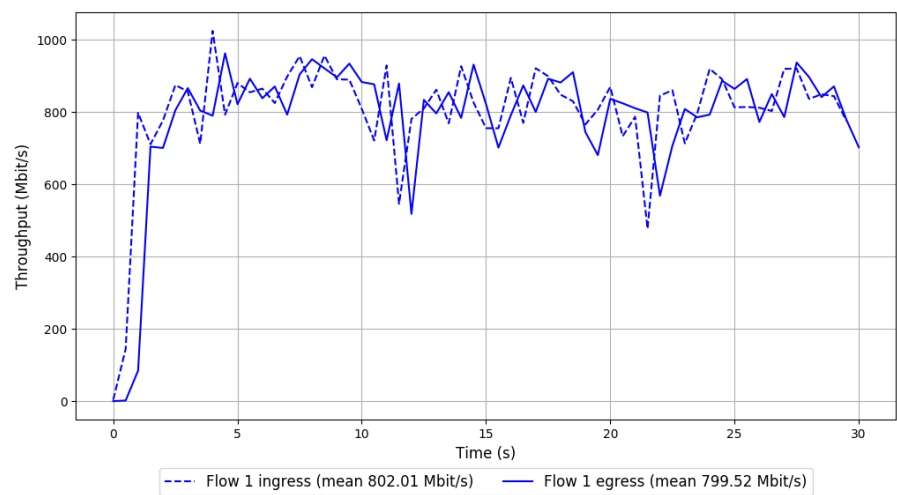
Run 4: Statistics of FillP-Sheep

Start at: 2019-10-03 07:22:27  
End at: 2019-10-03 07:22:57  
Local clock offset: -0.043 ms  
Remote clock offset: -0.139 ms

# Below is generated by plot.py at 2019-10-03 09:25:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 799.52 Mbit/s  
95th percentile per-packet one-way delay: 121.954 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 799.52 Mbit/s  
95th percentile per-packet one-way delay: 121.954 ms  
Loss rate: 0.75%



Run 4: Report of FillP-Sheep — Data Link

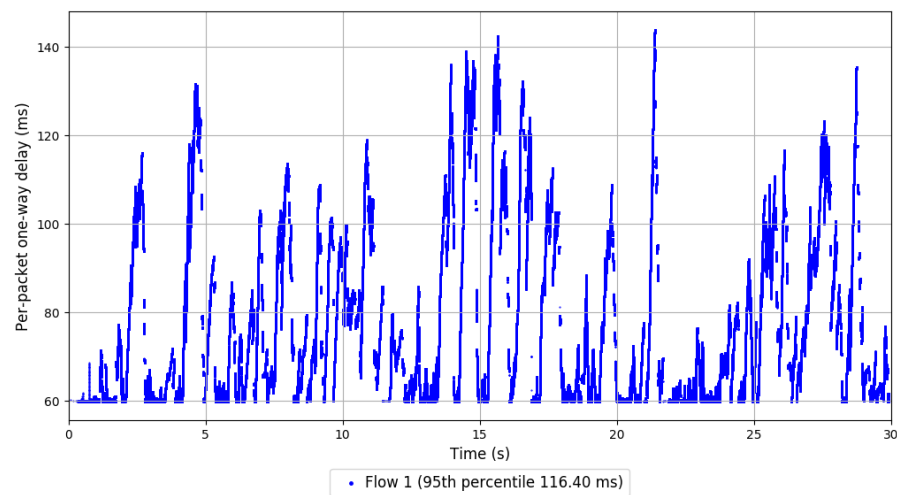
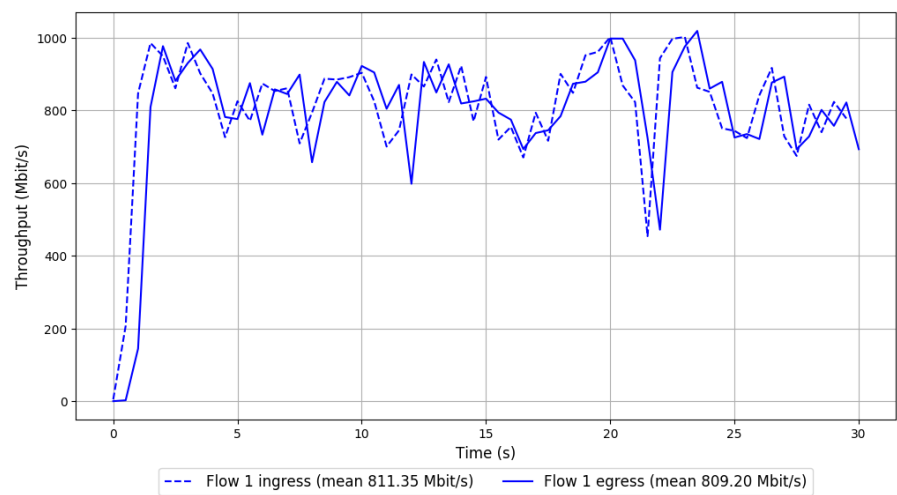


Run 5: Statistics of FillP-Sheep

Start at: 2019-10-03 07:57:14  
End at: 2019-10-03 07:57:44  
Local clock offset: -0.039 ms  
Remote clock offset: -0.225 ms

# Below is generated by plot.py at 2019-10-03 09:33:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 809.20 Mbit/s  
95th percentile per-packet one-way delay: 116.396 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 809.20 Mbit/s  
95th percentile per-packet one-way delay: 116.396 ms  
Loss rate: 0.68%

Run 5: Report of FillP-Sheep — Data Link

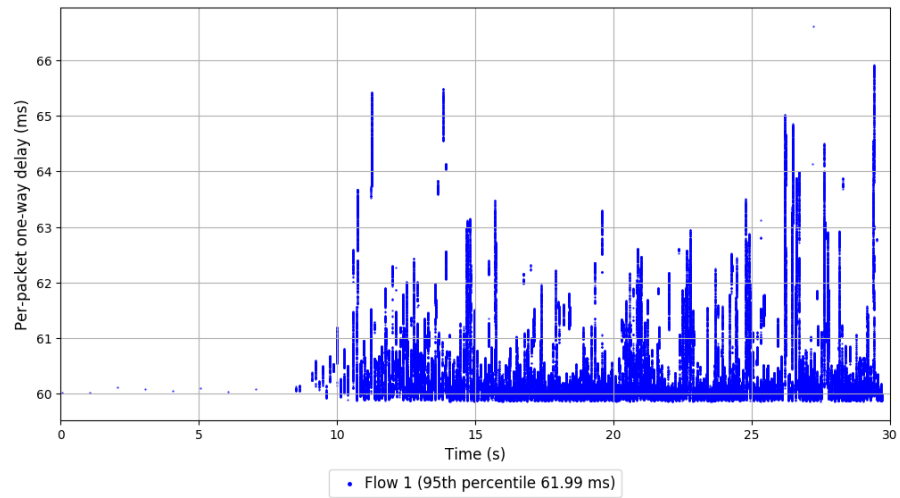
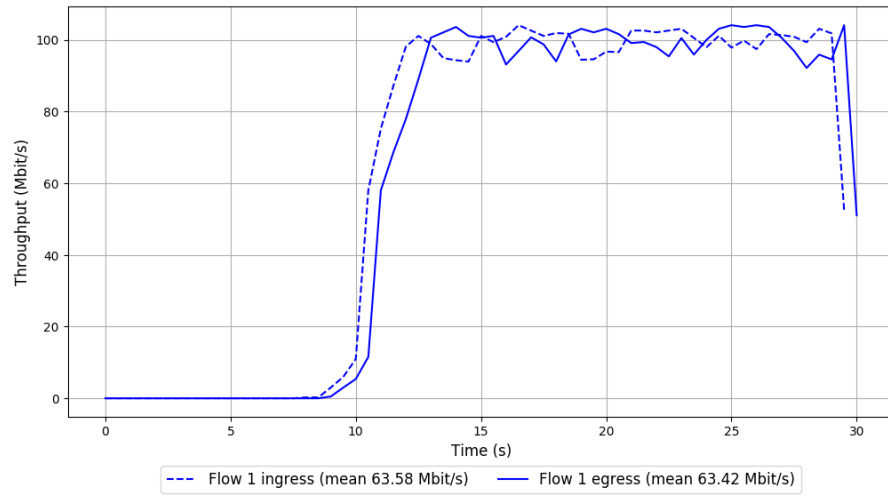


Run 1: Statistics of Indigo

Start at: 2019-10-03 05:43:10  
End at: 2019-10-03 05:43:40  
Local clock offset: 0.01 ms  
Remote clock offset: -0.339 ms

# Below is generated by plot.py at 2019-10-03 09:33:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 63.42 Mbit/s  
95th percentile per-packet one-way delay: 61.986 ms  
Loss rate: 0.66%  
-- Flow 1:  
Average throughput: 63.42 Mbit/s  
95th percentile per-packet one-way delay: 61.986 ms  
Loss rate: 0.66%

## Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-10-03 06:17:17

End at: 2019-10-03 06:17:47

Local clock offset: -0.058 ms

Remote clock offset: 0.04 ms

# Below is generated by plot.py at 2019-10-03 09:33:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 225.58 Mbit/s

95th percentile per-packet one-way delay: 62.846 ms

Loss rate: 0.47%

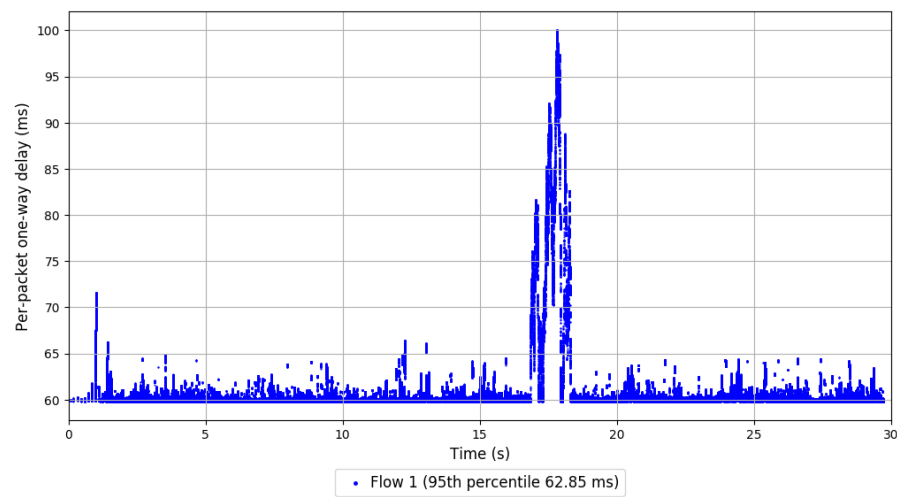
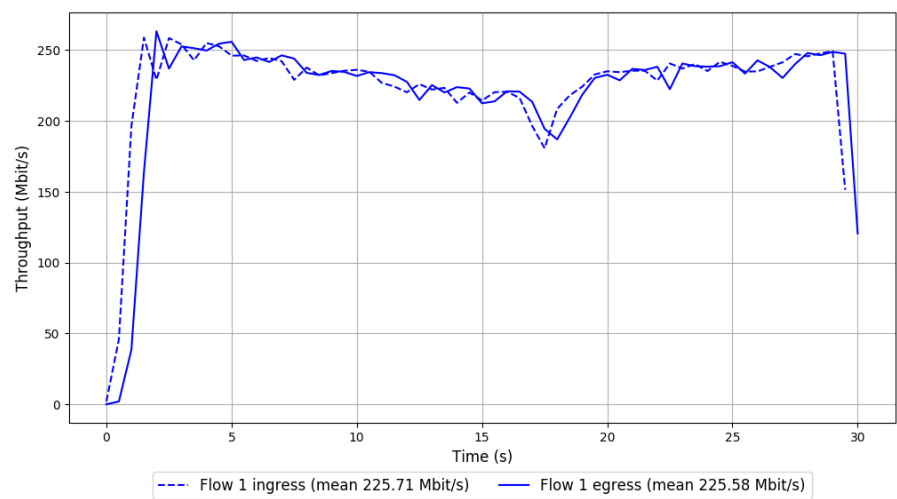
-- Flow 1:

Average throughput: 225.58 Mbit/s

95th percentile per-packet one-way delay: 62.846 ms

Loss rate: 0.47%

Run 2: Report of Indigo — Data Link



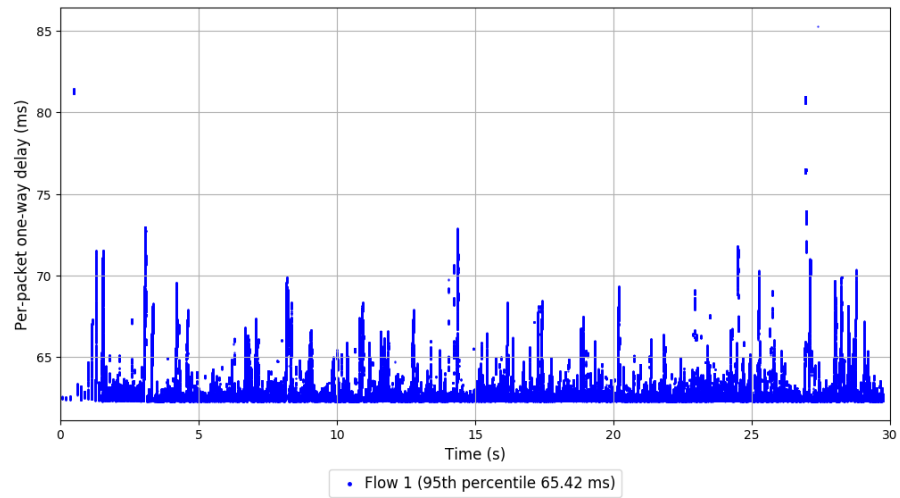
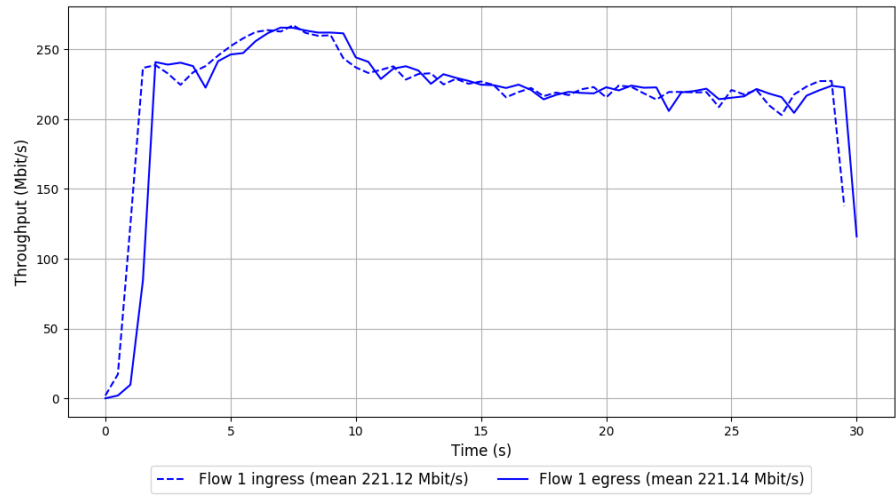
Run 3: Statistics of Indigo

Start at: 2019-10-03 06:52:13  
End at: 2019-10-03 06:52:44  
Local clock offset: -0.032 ms  
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2019-10-03 09:33:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 221.14 Mbit/s  
95th percentile per-packet one-way delay: 65.416 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 221.14 Mbit/s  
95th percentile per-packet one-way delay: 65.416 ms  
Loss rate: 0.42%



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

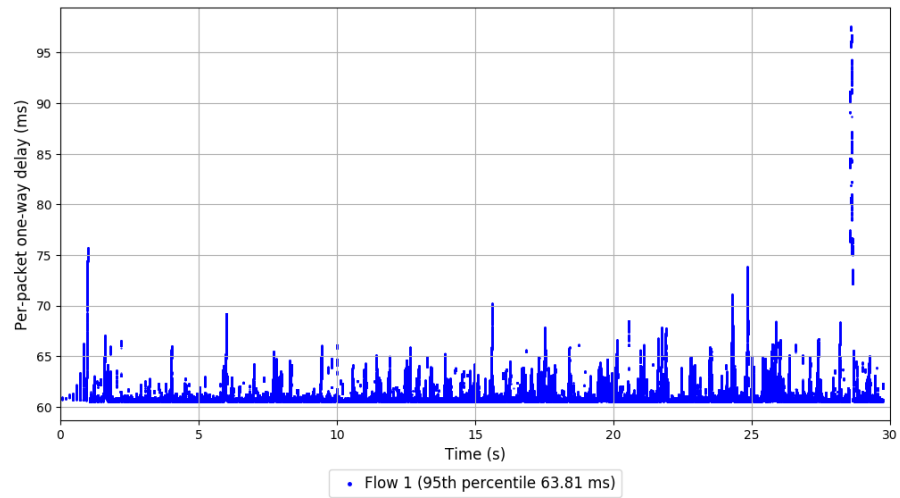
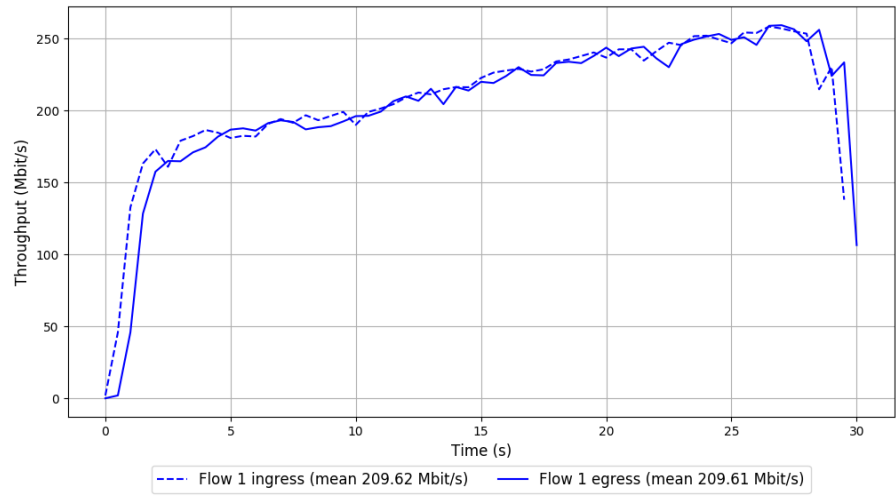


Run 4: Statistics of Indigo

Start at: 2019-10-03 07:27:07  
End at: 2019-10-03 07:27:37  
Local clock offset: -0.041 ms  
Remote clock offset: -0.939 ms

# Below is generated by plot.py at 2019-10-03 09:33:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 209.61 Mbit/s  
95th percentile per-packet one-way delay: 63.811 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 209.61 Mbit/s  
95th percentile per-packet one-way delay: 63.811 ms  
Loss rate: 0.42%

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

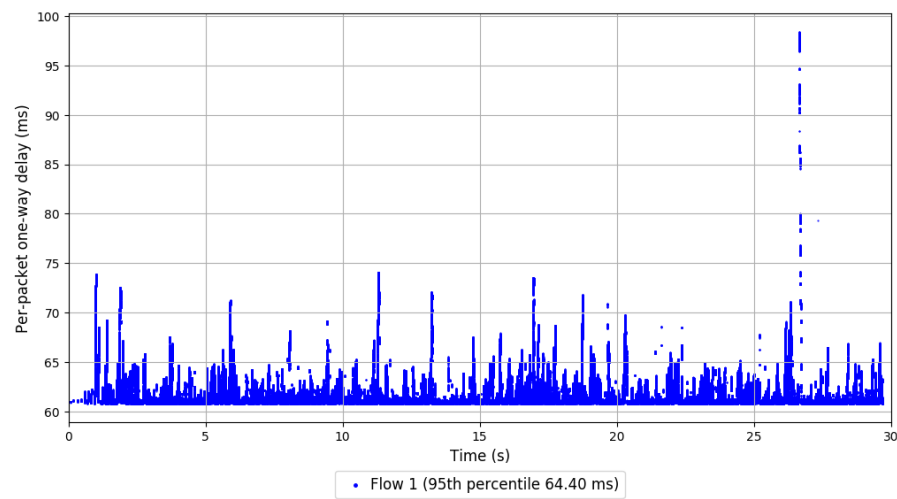
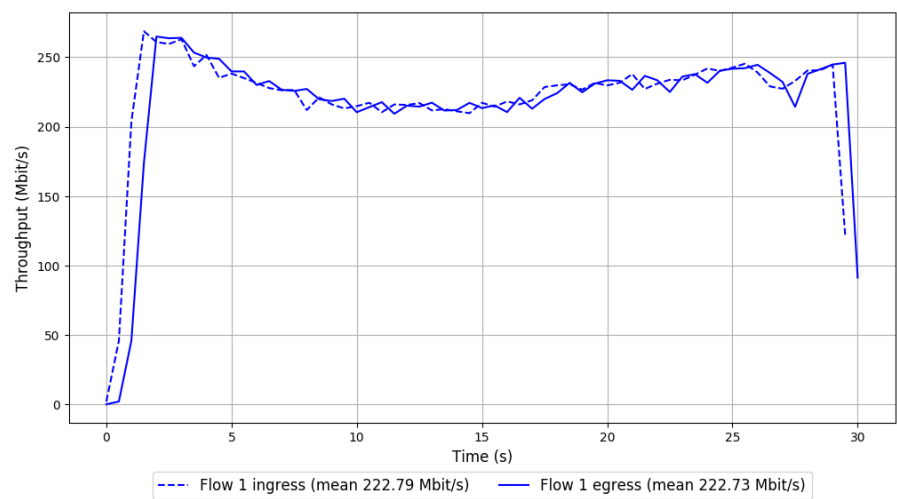


Run 5: Statistics of Indigo

Start at: 2019-10-03 08:01:53  
End at: 2019-10-03 08:02:23  
Local clock offset: -0.039 ms  
Remote clock offset: -0.964 ms

# Below is generated by plot.py at 2019-10-03 09:33:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 222.73 Mbit/s  
95th percentile per-packet one-way delay: 64.396 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 222.73 Mbit/s  
95th percentile per-packet one-way delay: 64.396 ms  
Loss rate: 0.44%

Run 5: Report of Indigo — Data Link

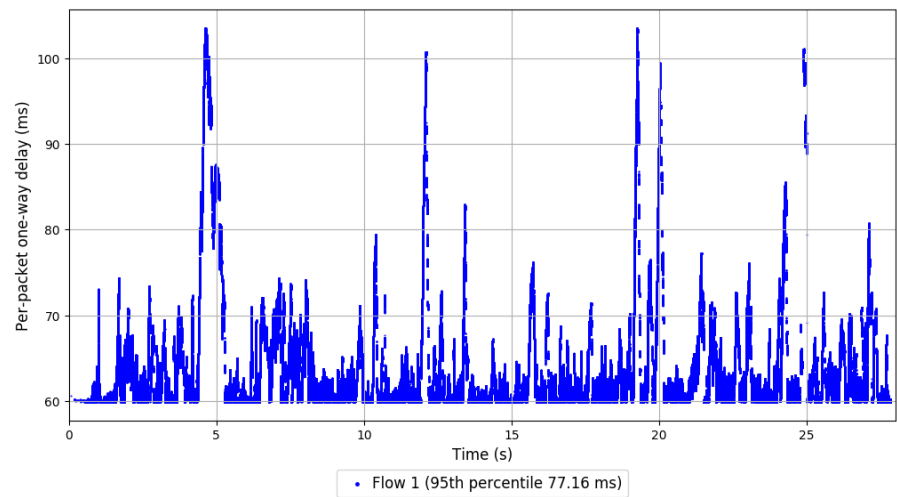
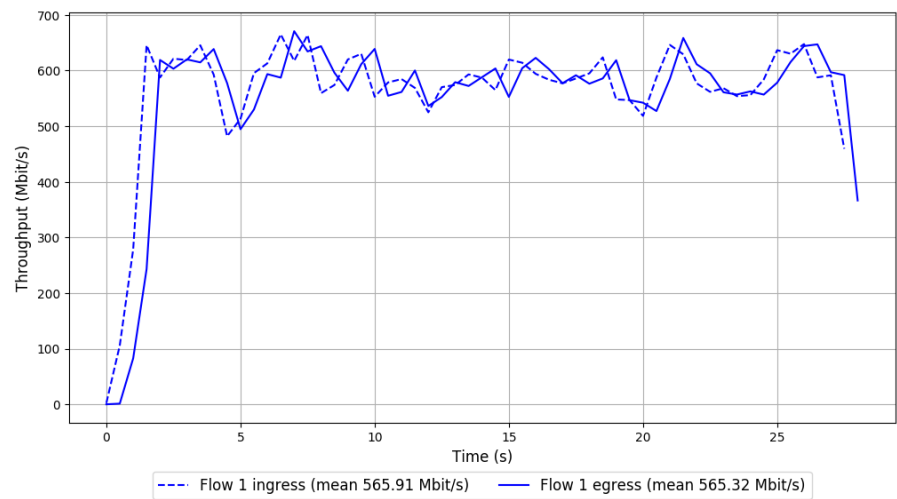


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-10-03 05:52:06  
End at: 2019-10-03 05:52:36  
Local clock offset: 0.076 ms  
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2019-10-03 09:33:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 565.32 Mbit/s  
95th percentile per-packet one-way delay: 77.162 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 565.32 Mbit/s  
95th percentile per-packet one-way delay: 77.162 ms  
Loss rate: 0.53%

Run 1: Report of Indigo-MusesC3 — Data Link



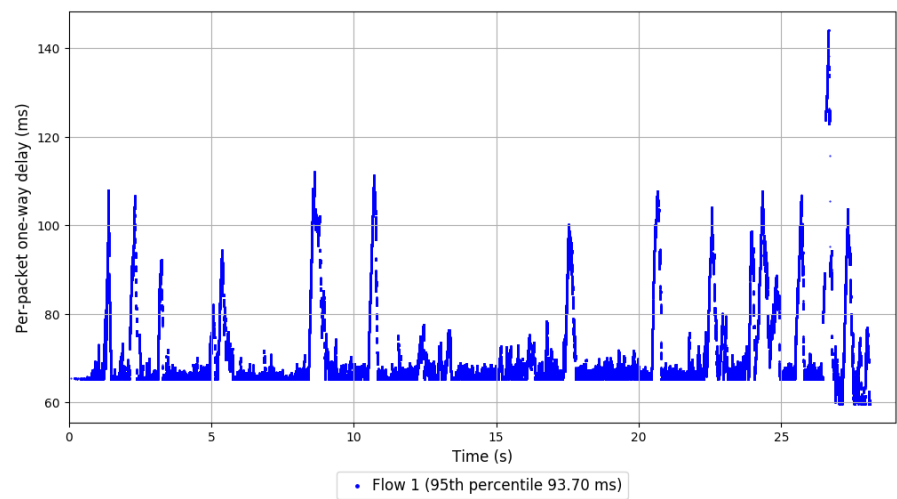
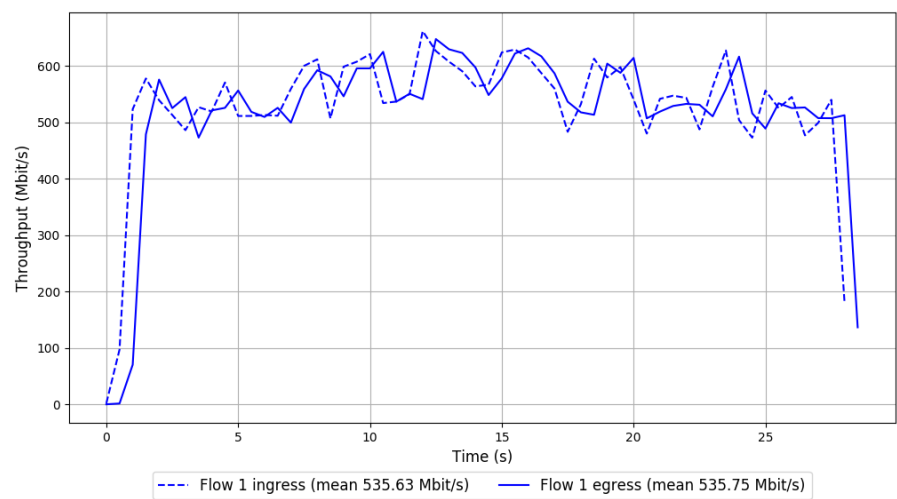
Run 2: Statistics of Indigo-MusesC3

Start at: 2019-10-03 06:26:35  
End at: 2019-10-03 06:27:05  
Local clock offset: -0.119 ms  
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-10-03 09:33:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 535.75 Mbit/s  
95th percentile per-packet one-way delay: 93.703 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 535.75 Mbit/s  
95th percentile per-packet one-way delay: 93.703 ms  
Loss rate: 0.44%



Run 2: Report of Indigo-MusesC3 — Data Link

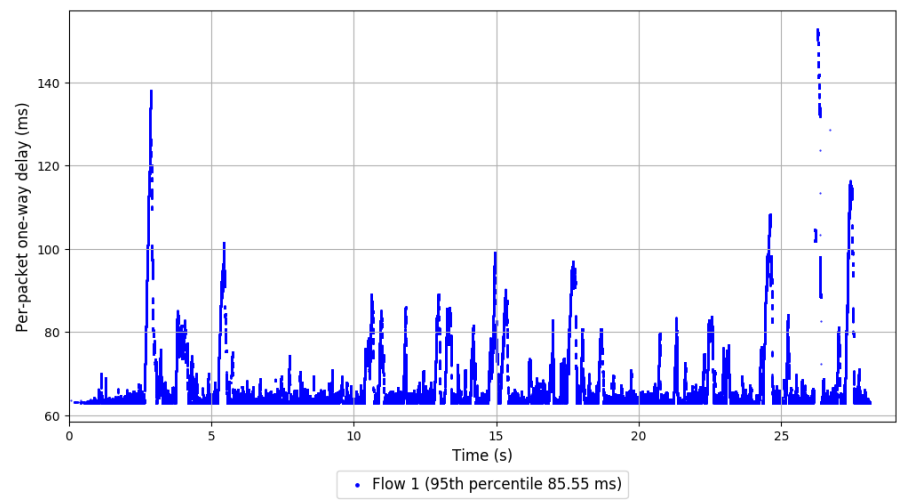
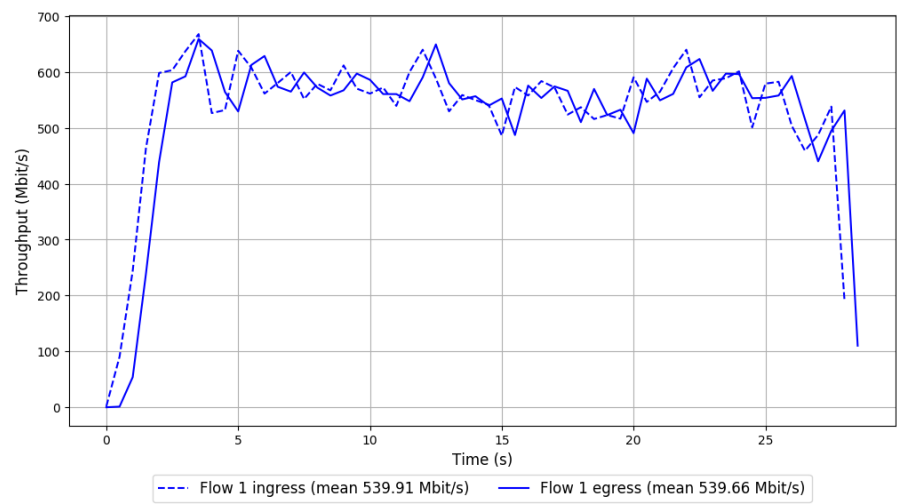


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-10-03 07:01:39  
End at: 2019-10-03 07:02:09  
Local clock offset: -0.034 ms  
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2019-10-03 09:33:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 539.66 Mbit/s  
95th percentile per-packet one-way delay: 85.554 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 539.66 Mbit/s  
95th percentile per-packet one-way delay: 85.554 ms  
Loss rate: 0.51%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-10-03 07:36:20

End at: 2019-10-03 07:36:50

Local clock offset: -0.04 ms

Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2019-10-03 09:34:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 555.97 Mbit/s

95th percentile per-packet one-way delay: 87.371 ms

Loss rate: 0.47%

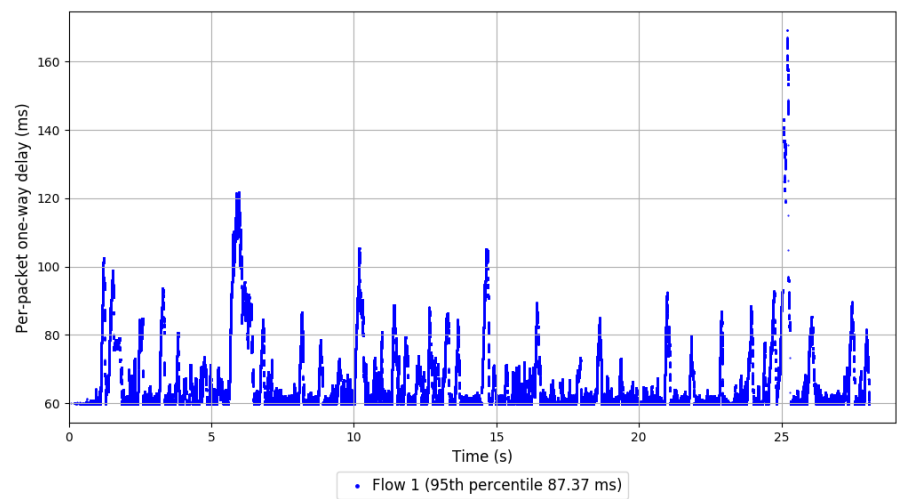
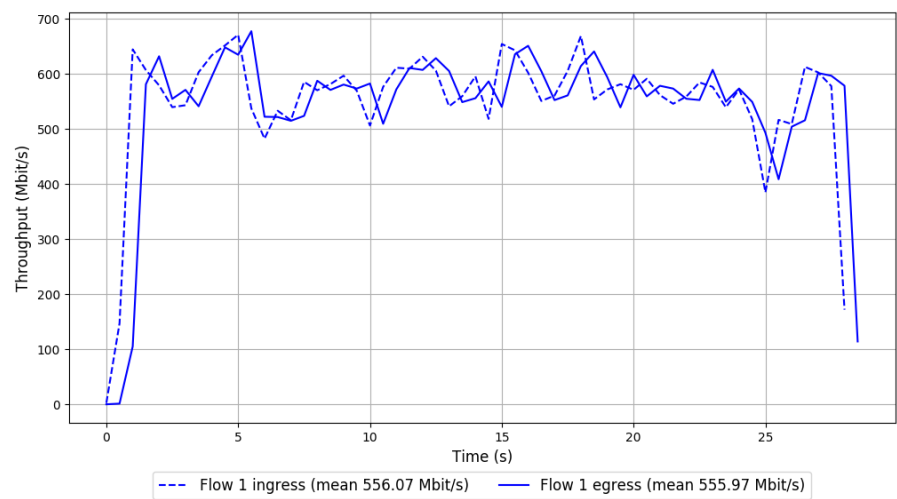
-- Flow 1:

Average throughput: 555.97 Mbit/s

95th percentile per-packet one-way delay: 87.371 ms

Loss rate: 0.47%

Run 4: Report of Indigo-MusesC3 — Data Link

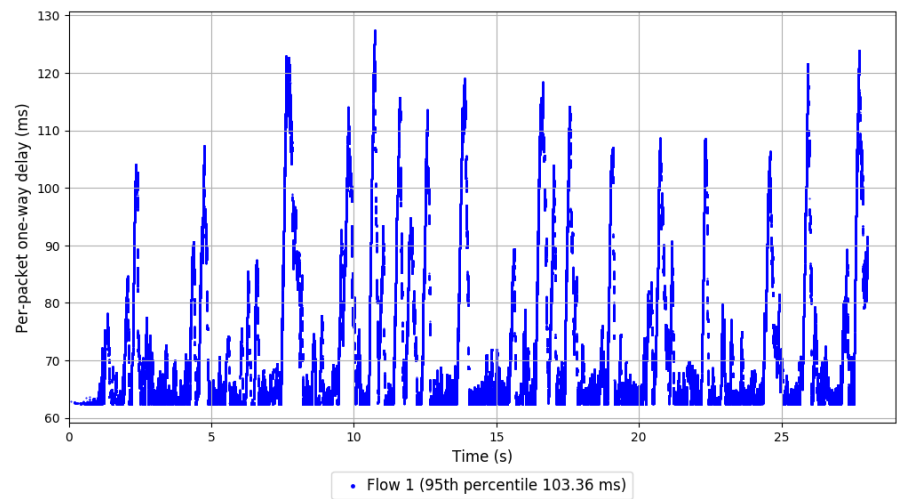
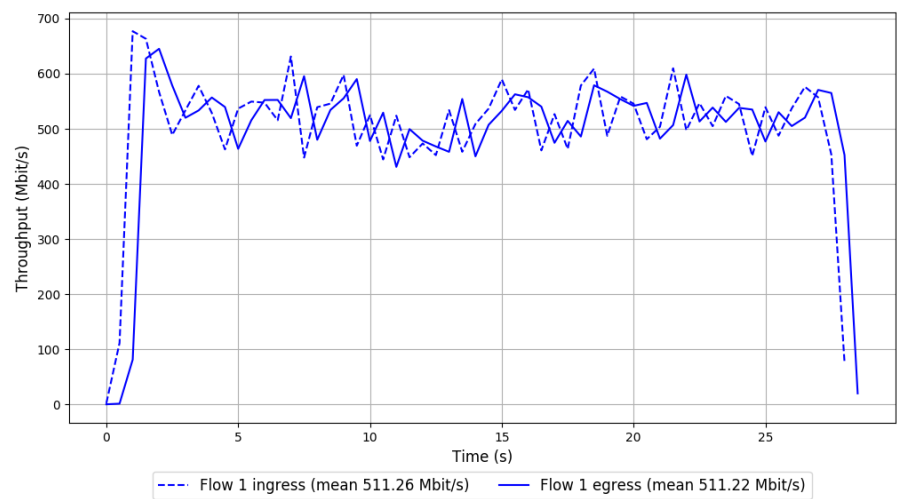


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-10-03 08:10:51  
End at: 2019-10-03 08:11:21  
Local clock offset: -0.051 ms  
Remote clock offset: -0.332 ms

# Below is generated by plot.py at 2019-10-03 09:34:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 511.22 Mbit/s  
95th percentile per-packet one-way delay: 103.359 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 511.22 Mbit/s  
95th percentile per-packet one-way delay: 103.359 ms  
Loss rate: 0.46%

Run 5: Report of Indigo-MusesC3 — Data Link



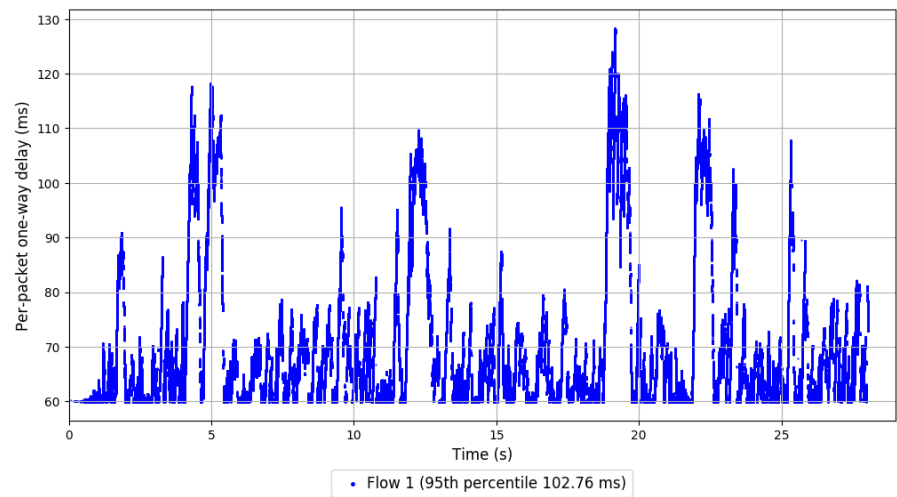
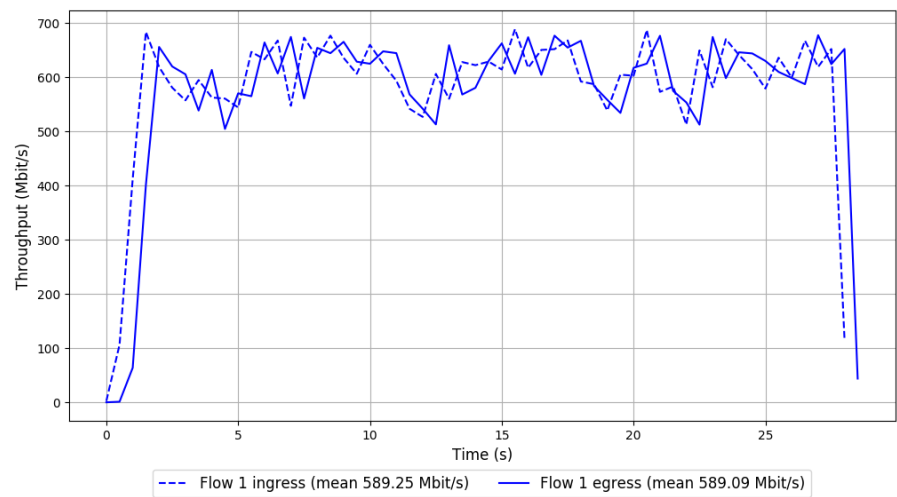
Run 1: Statistics of Indigo-MusesC5

Start at: 2019-10-03 05:55:14  
End at: 2019-10-03 05:55:44  
Local clock offset: 0.048 ms  
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2019-10-03 09:35:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 589.09 Mbit/s  
95th percentile per-packet one-way delay: 102.757 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 589.09 Mbit/s  
95th percentile per-packet one-way delay: 102.757 ms  
Loss rate: 0.46%



Run 1: Report of Indigo-MusesC5 — Data Link

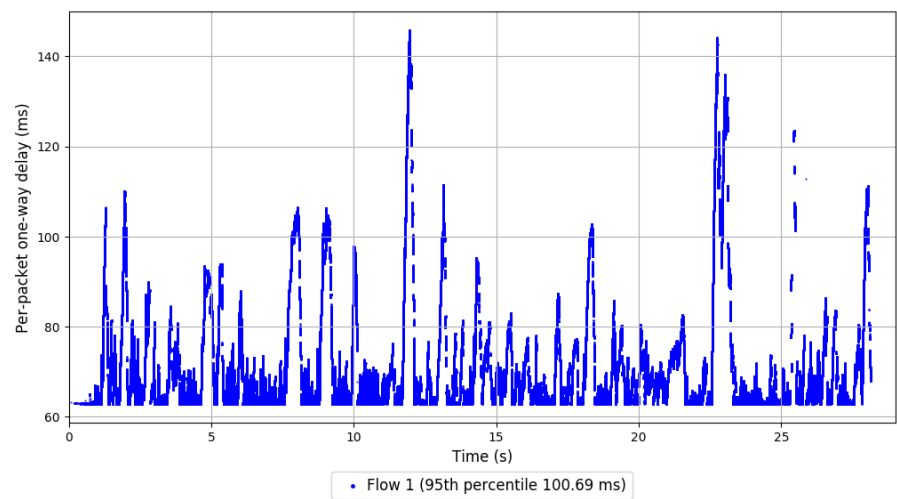
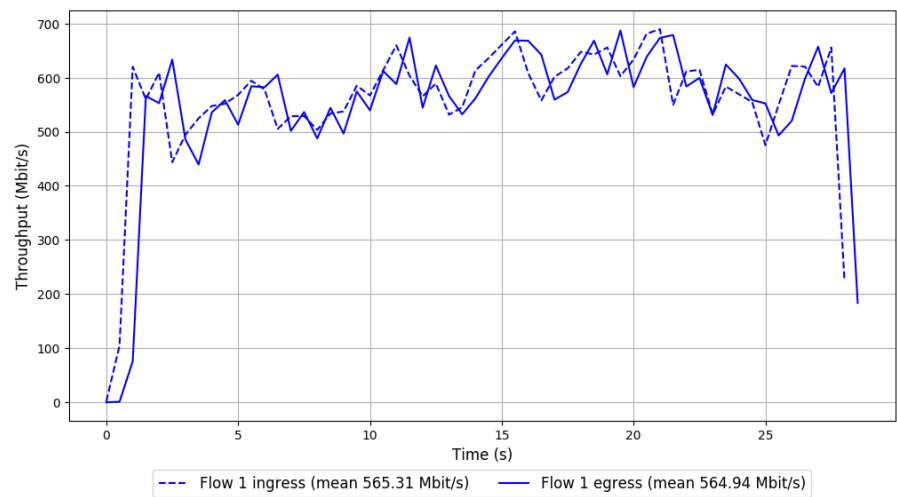


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-10-03 06:29:43  
End at: 2019-10-03 06:30:13  
Local clock offset: -0.103 ms  
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2019-10-03 09:35:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 564.94 Mbit/s  
95th percentile per-packet one-way delay: 100.688 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 564.94 Mbit/s  
95th percentile per-packet one-way delay: 100.688 ms  
Loss rate: 0.52%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-10-03 07:04:42

End at: 2019-10-03 07:05:12

Local clock offset: -0.079 ms

Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2019-10-03 09:37:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 524.38 Mbit/s

95th percentile per-packet one-way delay: 140.744 ms

Loss rate: 0.79%

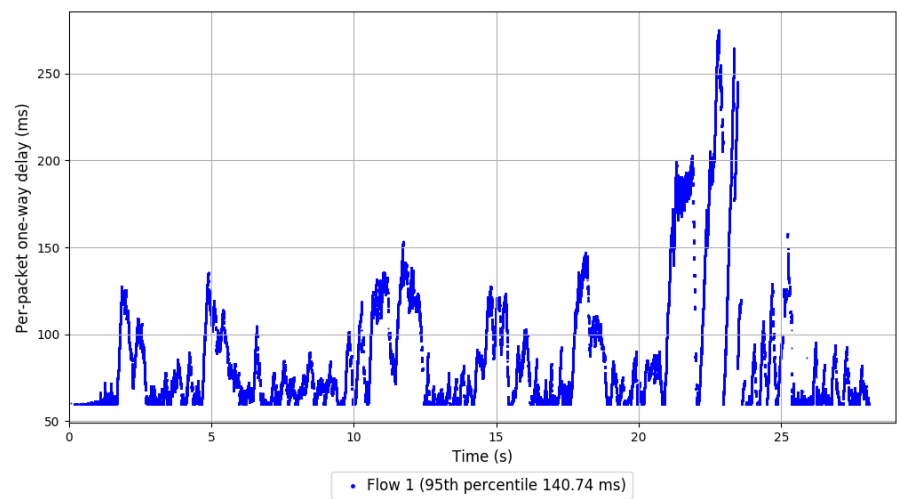
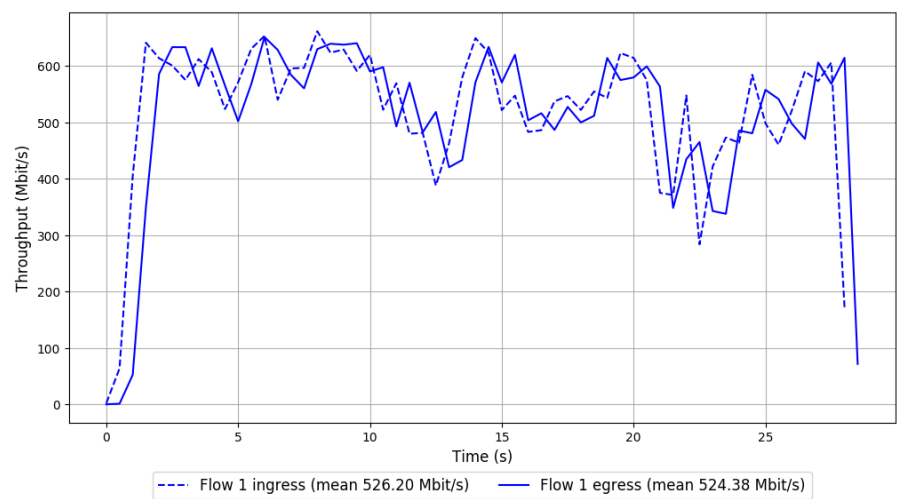
-- Flow 1:

Average throughput: 524.38 Mbit/s

95th percentile per-packet one-way delay: 140.744 ms

Loss rate: 0.79%

Run 3: Report of Indigo-MusesC5 — Data Link

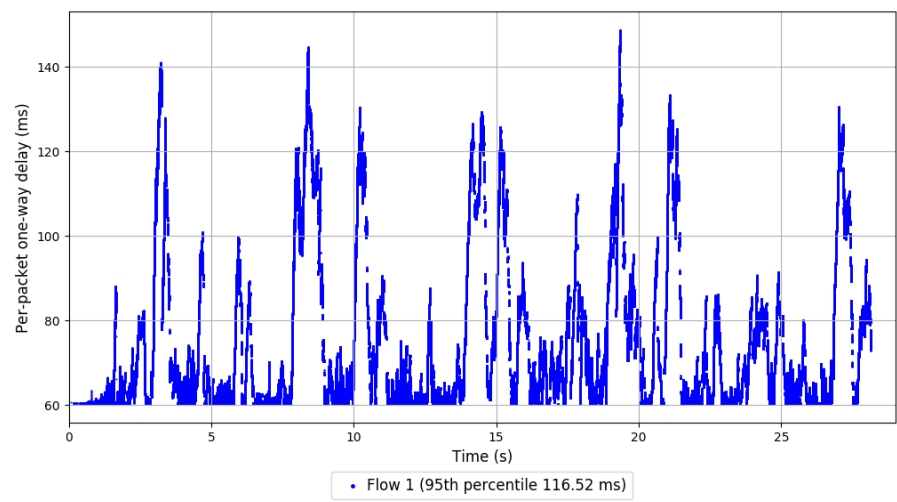
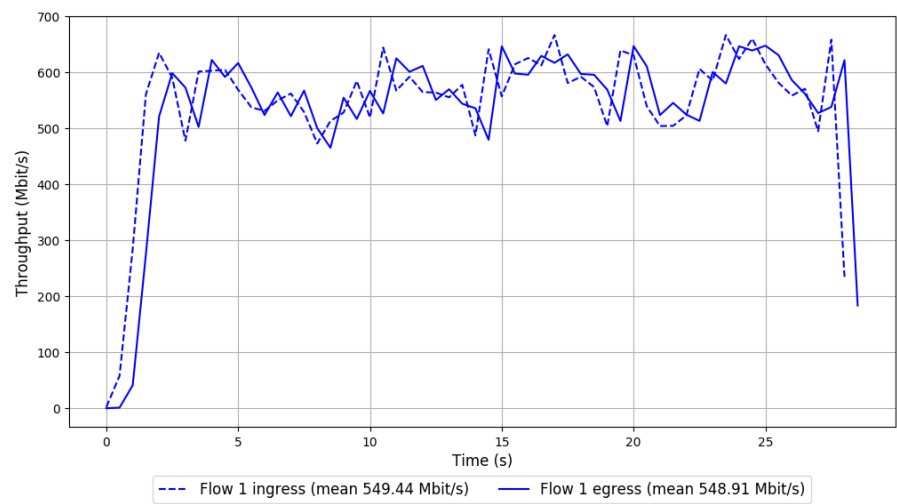


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-10-03 07:39:27  
End at: 2019-10-03 07:39:57  
Local clock offset: -0.051 ms  
Remote clock offset: -0.166 ms

# Below is generated by plot.py at 2019-10-03 09:37:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 548.91 Mbit/s  
95th percentile per-packet one-way delay: 116.515 ms  
Loss rate: 0.54%  
-- Flow 1:  
Average throughput: 548.91 Mbit/s  
95th percentile per-packet one-way delay: 116.515 ms  
Loss rate: 0.54%

Run 4: Report of Indigo-MusesC5 — Data Link



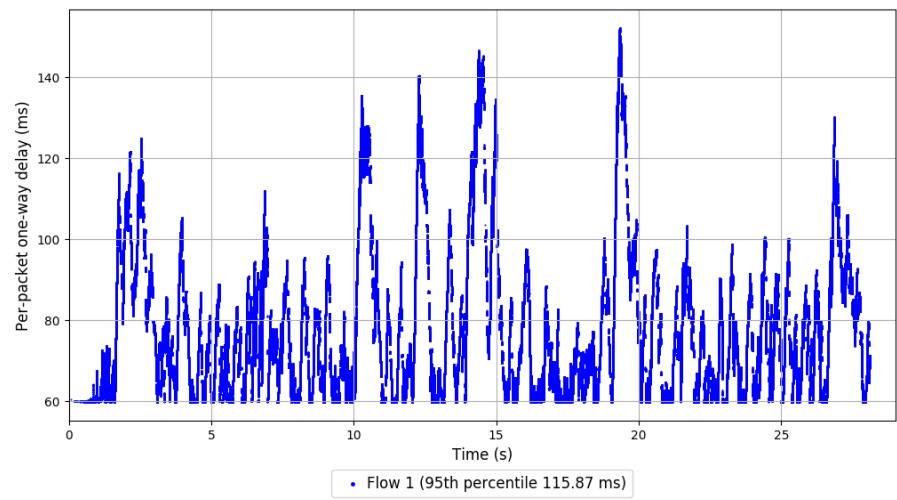
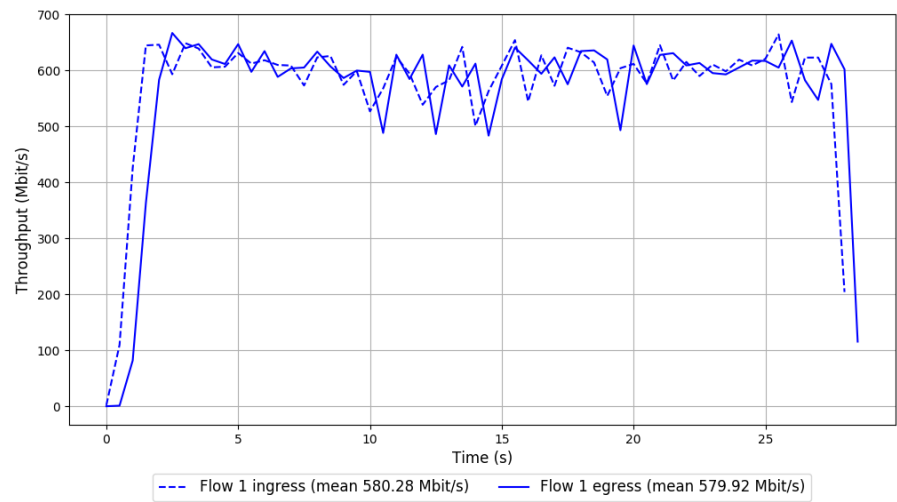
Run 5: Statistics of Indigo-MusesC5

Start at: 2019-10-03 08:13:57  
End at: 2019-10-03 08:14:27  
Local clock offset: -0.028 ms  
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2019-10-03 09:43:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 579.92 Mbit/s  
95th percentile per-packet one-way delay: 115.874 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 579.92 Mbit/s  
95th percentile per-packet one-way delay: 115.874 ms  
Loss rate: 0.51%



Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-10-03 06:01:23

End at: 2019-10-03 06:01:53

Local clock offset: 0.012 ms

Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2019-10-03 09:43:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 517.48 Mbit/s

95th percentile per-packet one-way delay: 87.875 ms

Loss rate: 0.42%

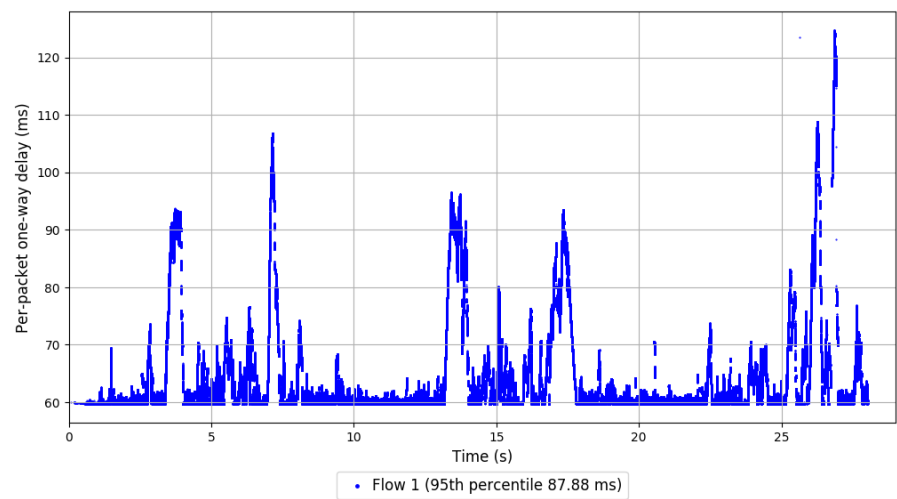
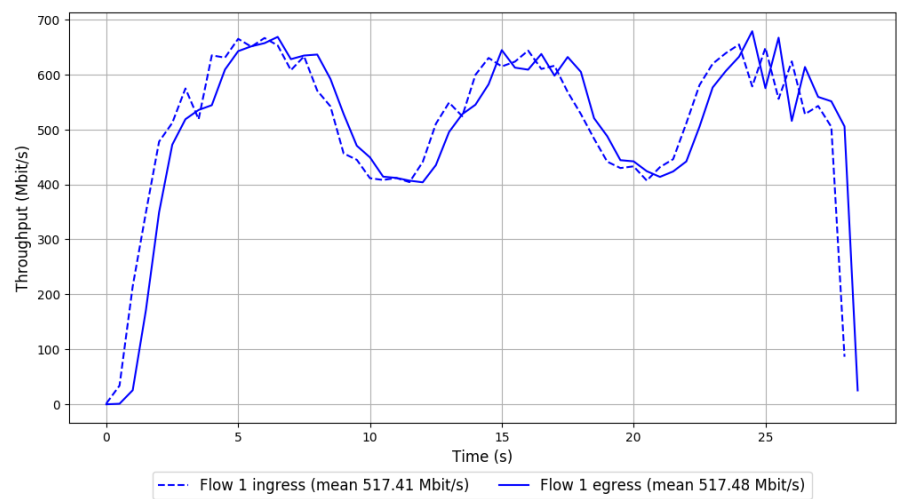
-- Flow 1:

Average throughput: 517.48 Mbit/s

95th percentile per-packet one-way delay: 87.875 ms

Loss rate: 0.42%

Run 1: Report of Indigo-MusesD — Data Link

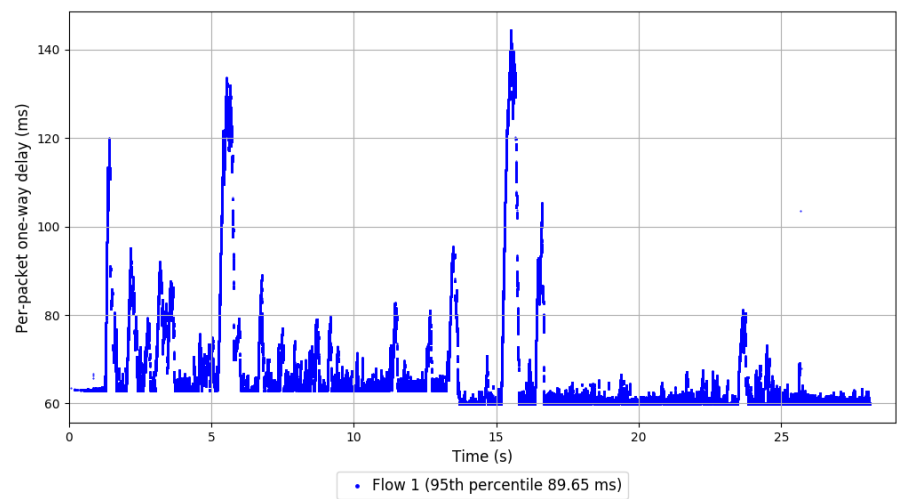
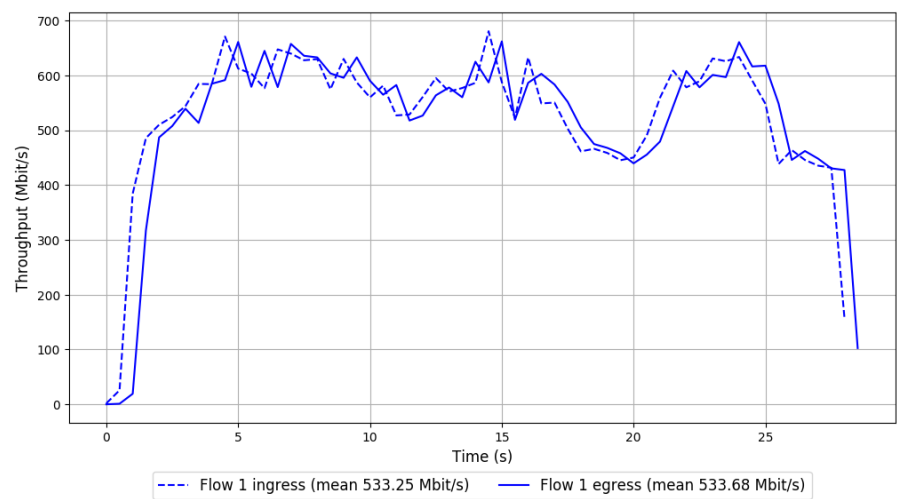


Run 2: Statistics of Indigo-MusesD

Start at: 2019-10-03 06:35:52  
End at: 2019-10-03 06:36:22  
Local clock offset: -0.095 ms  
Remote clock offset: -0.181 ms

# Below is generated by plot.py at 2019-10-03 09:43:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 533.68 Mbit/s  
95th percentile per-packet one-way delay: 89.650 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 533.68 Mbit/s  
95th percentile per-packet one-way delay: 89.650 ms  
Loss rate: 0.37%

Run 2: Report of Indigo-MusesD — Data Link

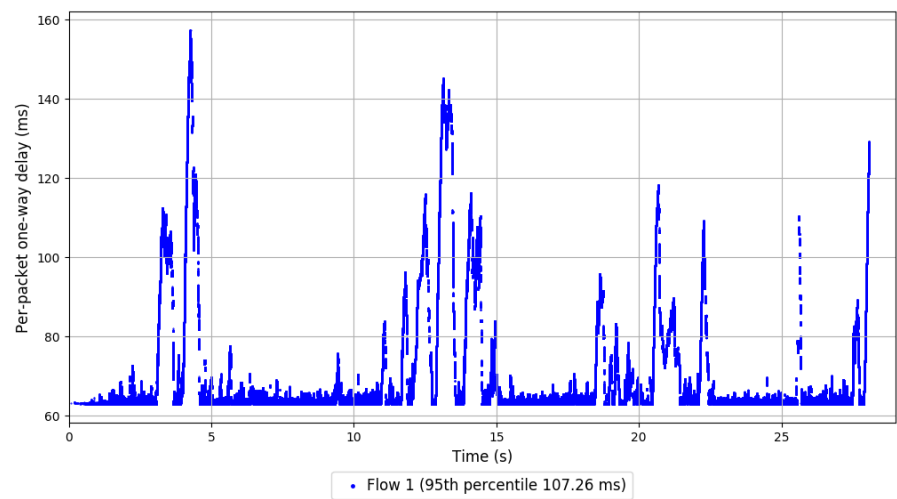
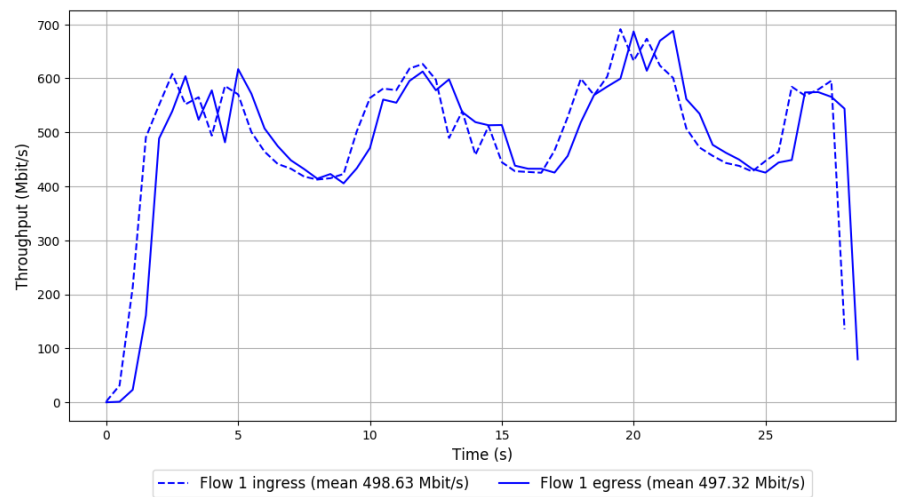


Run 3: Statistics of Indigo-MusesD

Start at: 2019-10-03 07:10:49  
End at: 2019-10-03 07:11:19  
Local clock offset: -0.051 ms  
Remote clock offset: -0.151 ms

# Below is generated by plot.py at 2019-10-03 09:43:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 497.32 Mbit/s  
95th percentile per-packet one-way delay: 107.260 ms  
Loss rate: 0.70%  
-- Flow 1:  
Average throughput: 497.32 Mbit/s  
95th percentile per-packet one-way delay: 107.260 ms  
Loss rate: 0.70%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-10-03 07:45:32

End at: 2019-10-03 07:46:02

Local clock offset: -0.026 ms

Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2019-10-03 09:44:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 519.64 Mbit/s

95th percentile per-packet one-way delay: 104.807 ms

Loss rate: 0.62%

-- Flow 1:

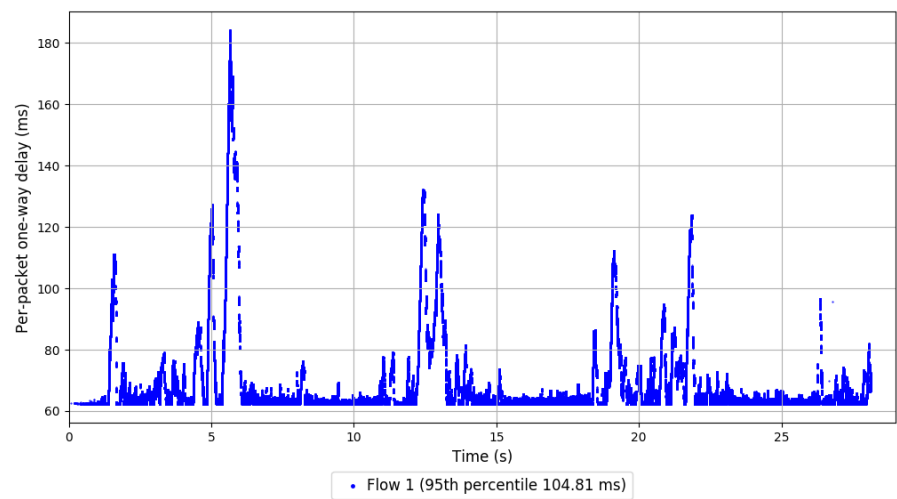
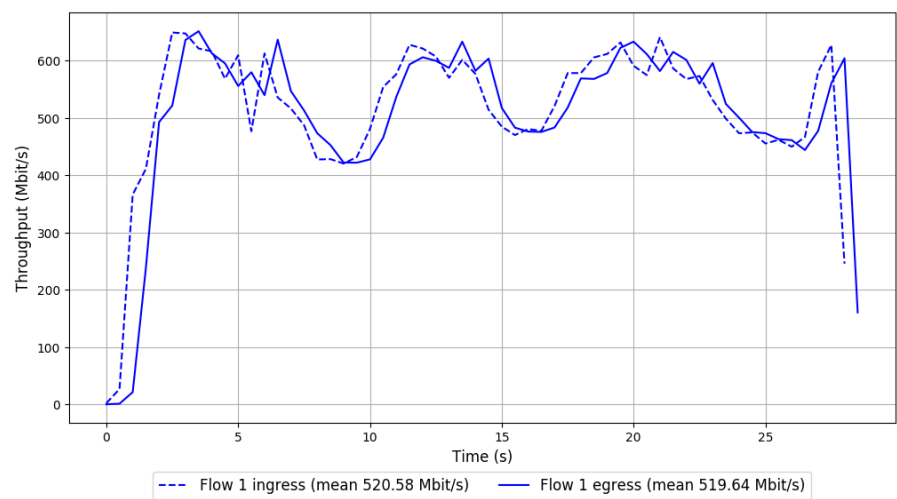
Average throughput: 519.64 Mbit/s

95th percentile per-packet one-way delay: 104.807 ms

Loss rate: 0.62%



Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-10-03 08:20:08

End at: 2019-10-03 08:20:38

Local clock offset: -0.054 ms

Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-10-03 09:45:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 539.63 Mbit/s

95th percentile per-packet one-way delay: 100.482 ms

Loss rate: 0.35%

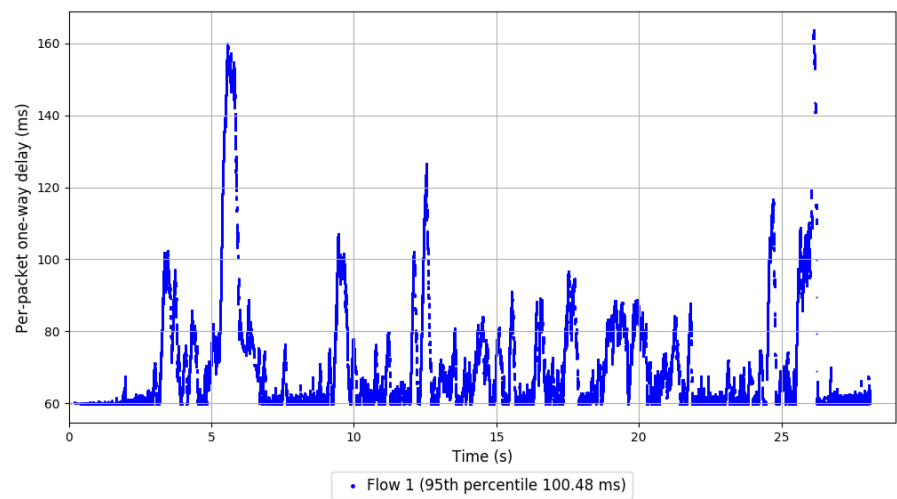
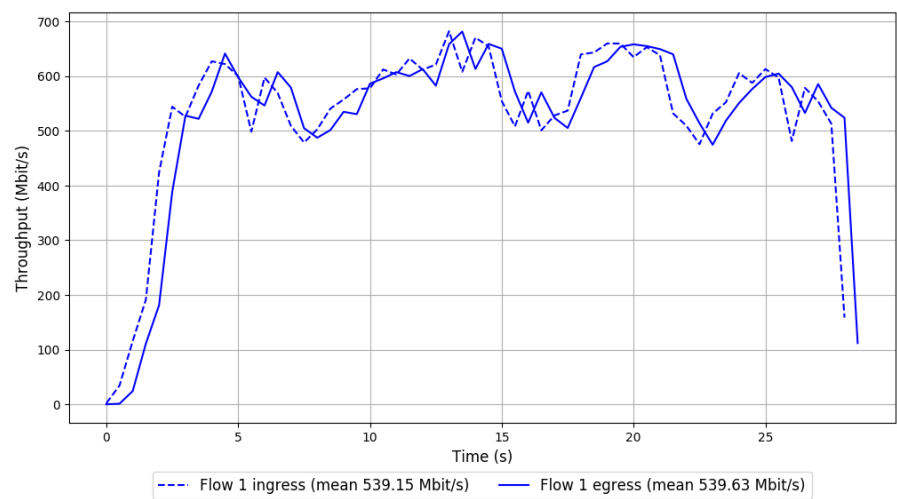
-- Flow 1:

Average throughput: 539.63 Mbit/s

95th percentile per-packet one-way delay: 100.482 ms

Loss rate: 0.35%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-10-03 05:59:48

End at: 2019-10-03 06:00:18

Local clock offset: 0.038 ms

Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2019-10-03 09:47:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 594.57 Mbit/s

95th percentile per-packet one-way delay: 109.985 ms

Loss rate: 0.62%

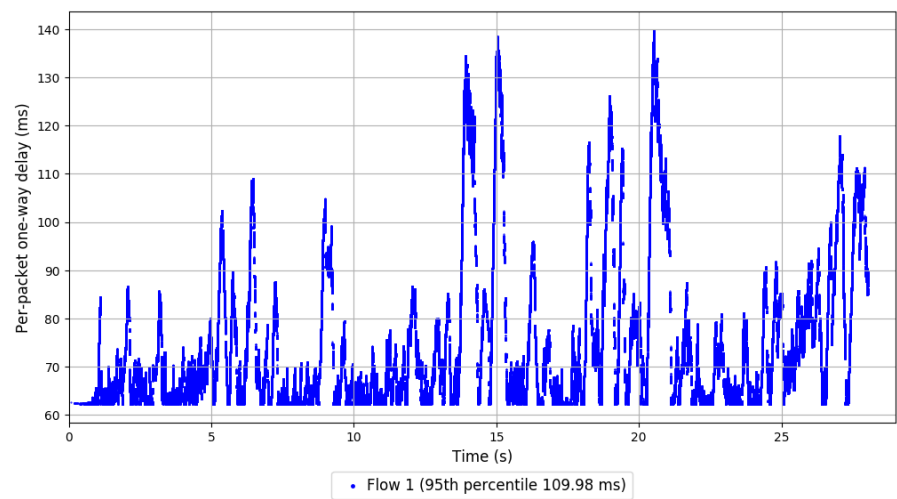
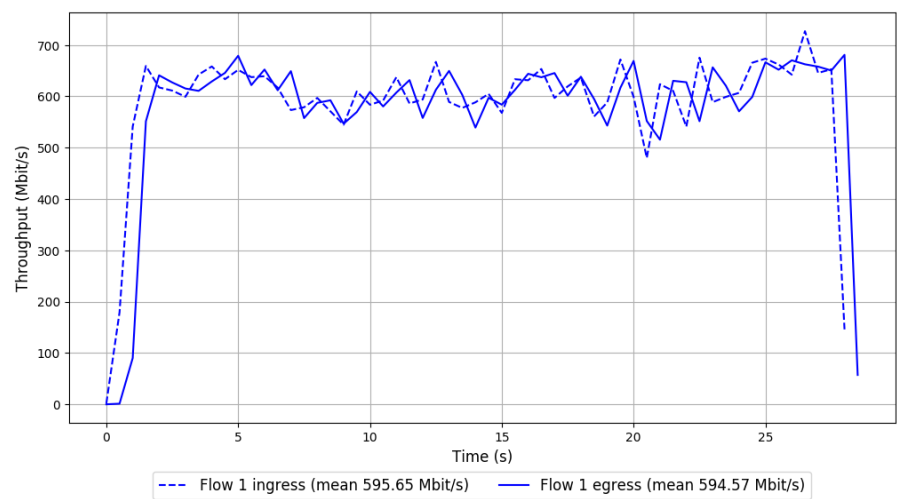
-- Flow 1:

Average throughput: 594.57 Mbit/s

95th percentile per-packet one-way delay: 109.985 ms

Loss rate: 0.62%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-10-03 06:34:18

End at: 2019-10-03 06:34:48

Local clock offset: -0.096 ms

Remote clock offset: -0.615 ms

# Below is generated by plot.py at 2019-10-03 09:48:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 593.99 Mbit/s

95th percentile per-packet one-way delay: 98.814 ms

Loss rate: 0.50%

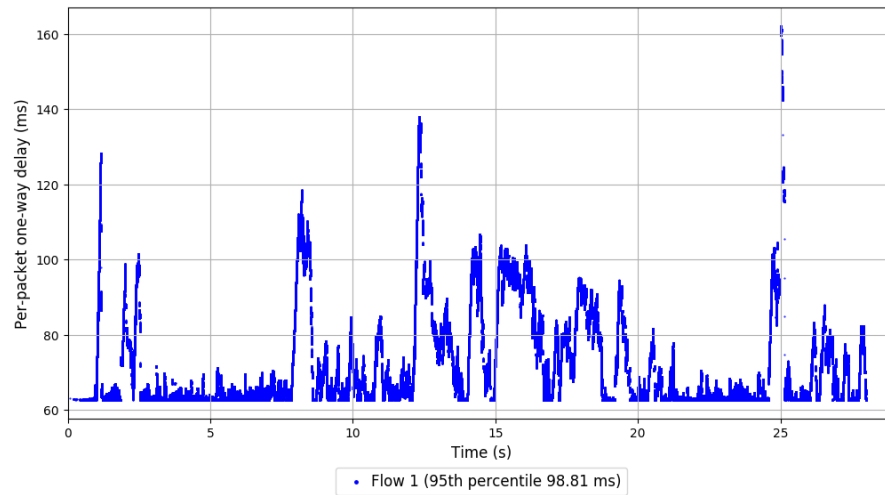
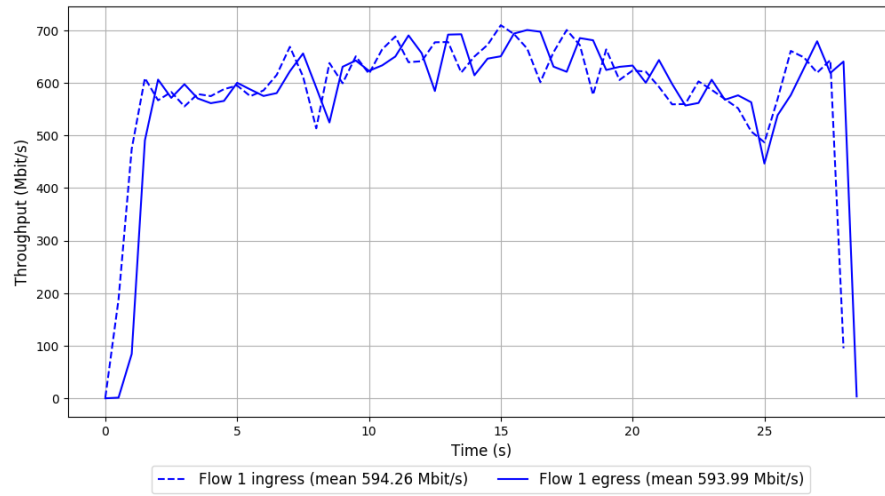
-- Flow 1:

Average throughput: 593.99 Mbit/s

95th percentile per-packet one-way delay: 98.814 ms

Loss rate: 0.50%

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



Run 3: Statistics of Indigo-MusesT

Start at: 2019-10-03 07:09:14

End at: 2019-10-03 07:09:44

Local clock offset: -0.086 ms

Remote clock offset: 0.667 ms

# Below is generated by plot.py at 2019-10-03 09:53:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 612.70 Mbit/s

95th percentile per-packet one-way delay: 99.707 ms

Loss rate: 0.50%

-- Flow 1:

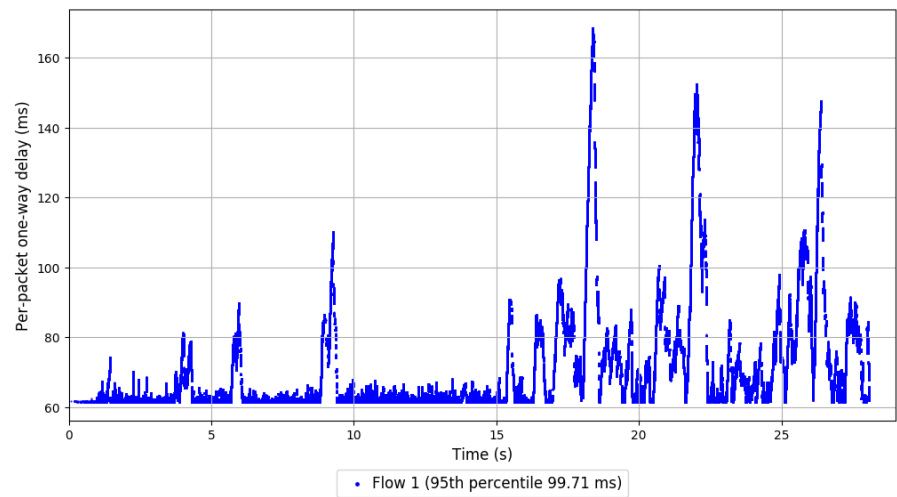
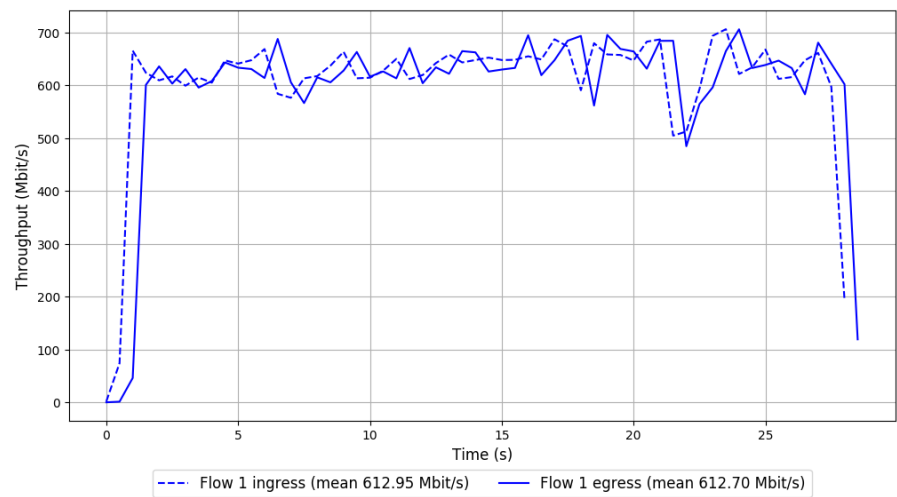
Average throughput: 612.70 Mbit/s

95th percentile per-packet one-way delay: 99.707 ms

Loss rate: 0.50%



Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-10-03 07:43:58

End at: 2019-10-03 07:44:28

Local clock offset: -0.064 ms

Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2019-10-03 09:53:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 574.07 Mbit/s

95th percentile per-packet one-way delay: 102.995 ms

Loss rate: 0.53%

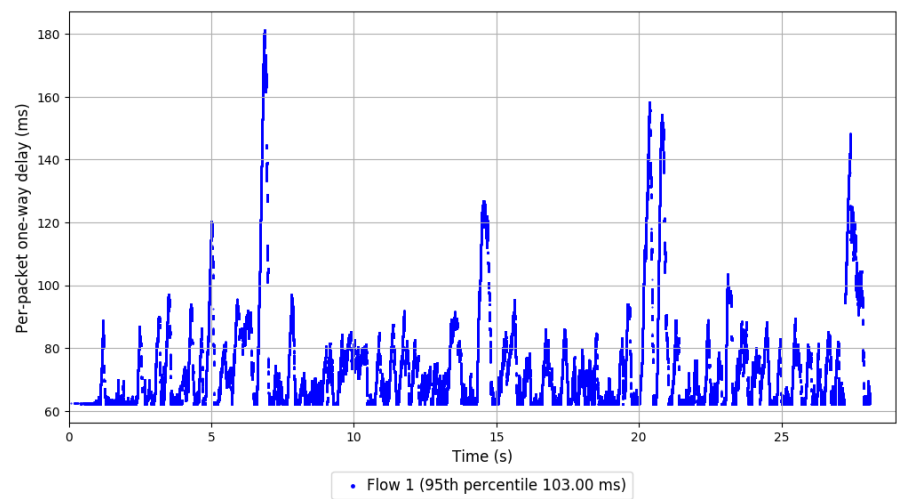
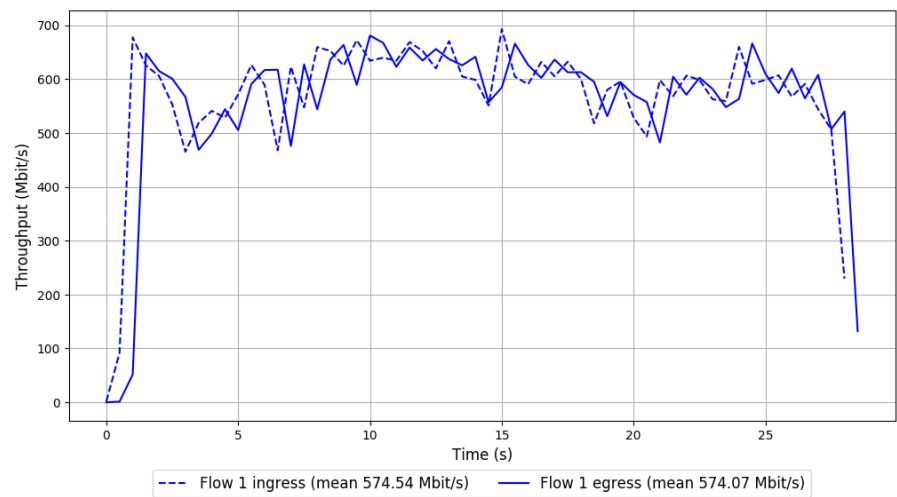
-- Flow 1:

Average throughput: 574.07 Mbit/s

95th percentile per-packet one-way delay: 102.995 ms

Loss rate: 0.53%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-10-03 08:18:34

End at: 2019-10-03 08:19:04

Local clock offset: -0.014 ms

Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2019-10-03 09:53:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 575.15 Mbit/s

95th percentile per-packet one-way delay: 115.696 ms

Loss rate: 0.48%

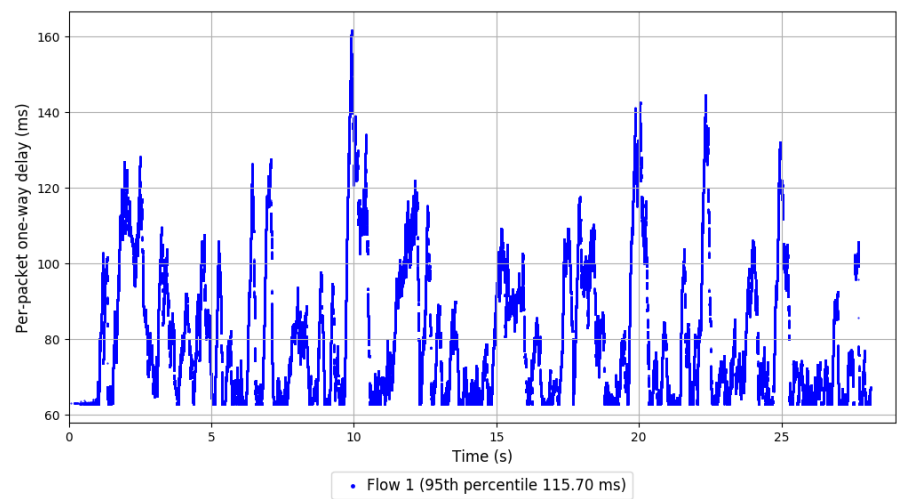
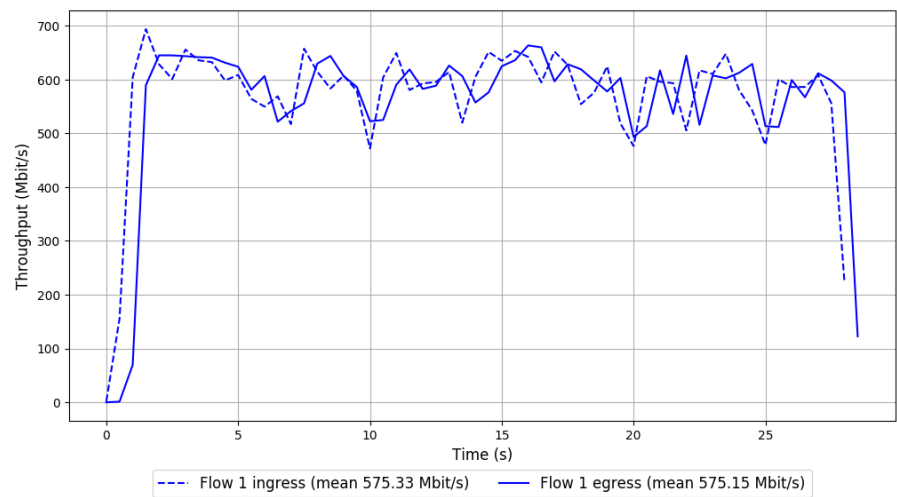
-- Flow 1:

Average throughput: 575.15 Mbit/s

95th percentile per-packet one-way delay: 115.696 ms

Loss rate: 0.48%

Run 5: Report of Indigo-MusesT — Data Link

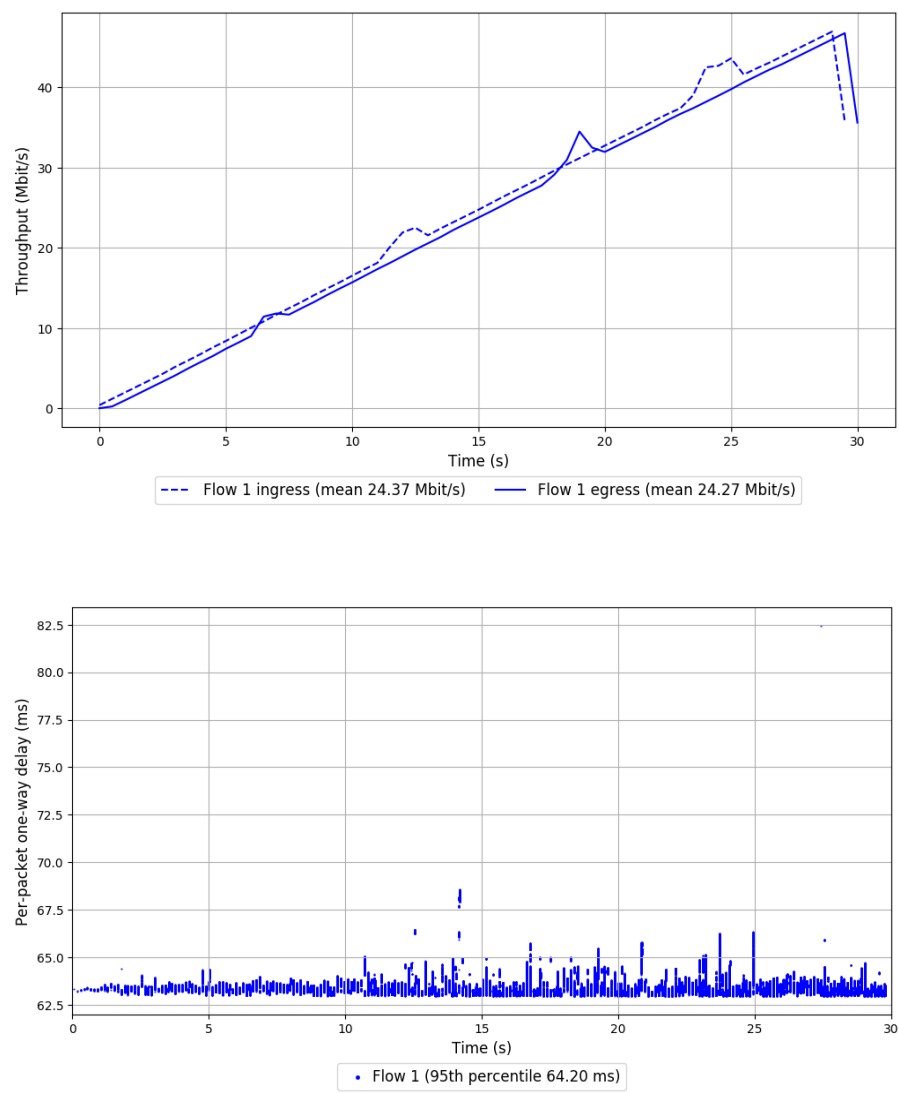


Run 1: Statistics of LEDBAT

Start at: 2019-10-03 05:49:20  
End at: 2019-10-03 05:49:50  
Local clock offset: 0.07 ms  
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2019-10-03 09:53:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.27 Mbit/s  
95th percentile per-packet one-way delay: 64.203 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 24.27 Mbit/s  
95th percentile per-packet one-way delay: 64.203 ms  
Loss rate: 0.82%

Run 1: Report of LEDBAT — Data Link



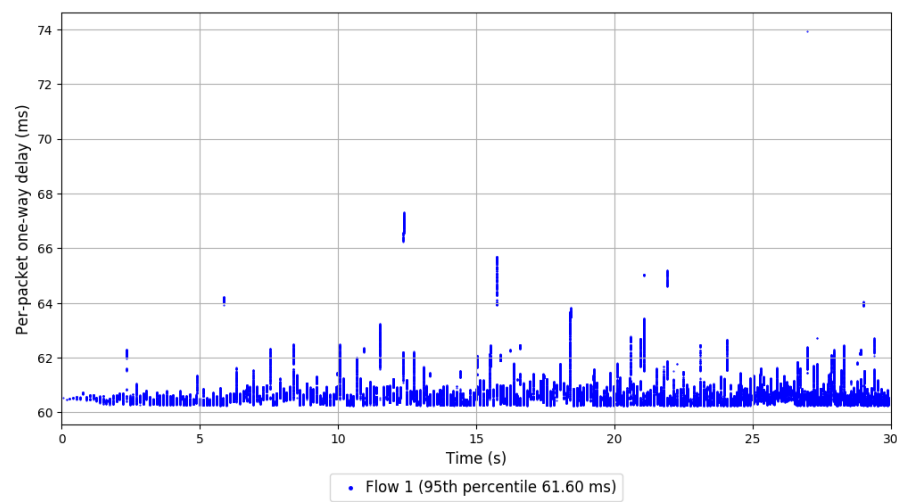
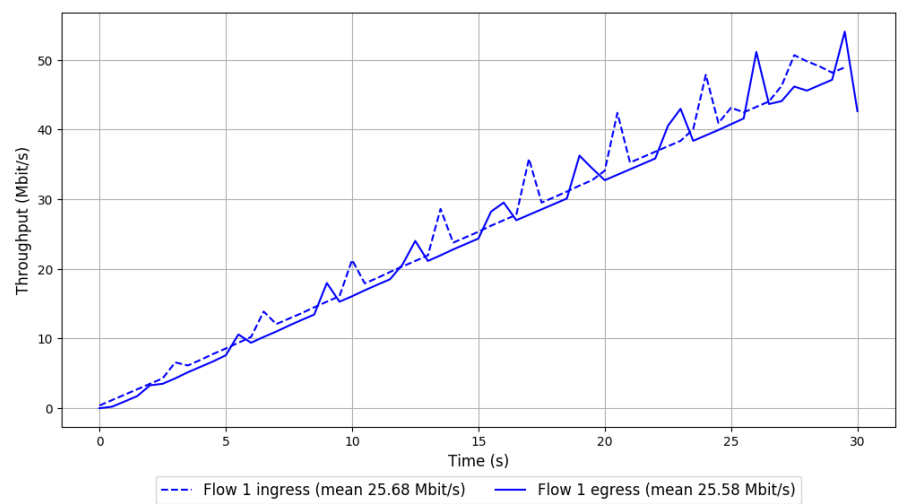
Run 2: Statistics of LEDBAT

Start at: 2019-10-03 06:23:50  
End at: 2019-10-03 06:24:20  
Local clock offset: -0.085 ms  
Remote clock offset: -0.539 ms

# Below is generated by plot.py at 2019-10-03 09:53:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 25.58 Mbit/s  
95th percentile per-packet one-way delay: 61.597 ms  
Loss rate: 0.80%  
-- Flow 1:  
Average throughput: 25.58 Mbit/s  
95th percentile per-packet one-way delay: 61.597 ms  
Loss rate: 0.80%



Run 2: Report of LEDBAT — Data Link

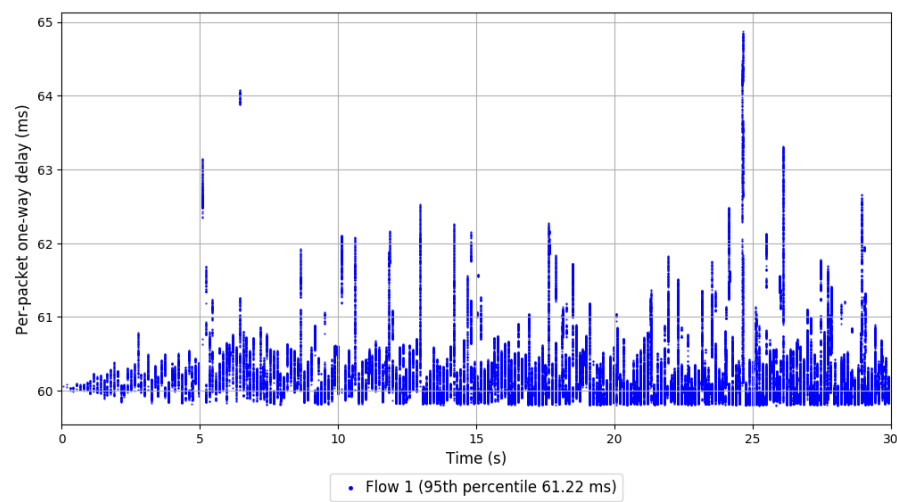
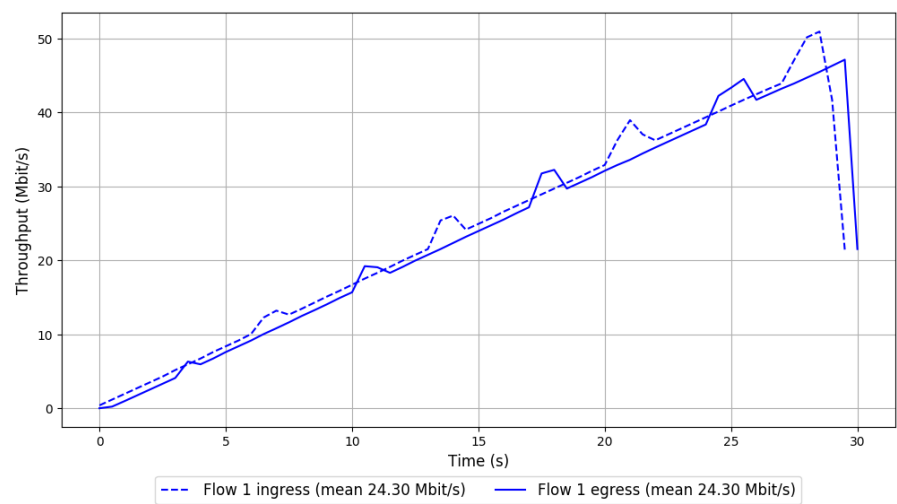


Run 3: Statistics of LEDBAT

Start at: 2019-10-03 06:58:54  
End at: 2019-10-03 06:59:24  
Local clock offset: -0.057 ms  
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-10-03 09:53:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.30 Mbit/s  
95th percentile per-packet one-way delay: 61.217 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 24.30 Mbit/s  
95th percentile per-packet one-way delay: 61.217 ms  
Loss rate: 0.42%

Run 3: Report of LEDBAT — Data Link

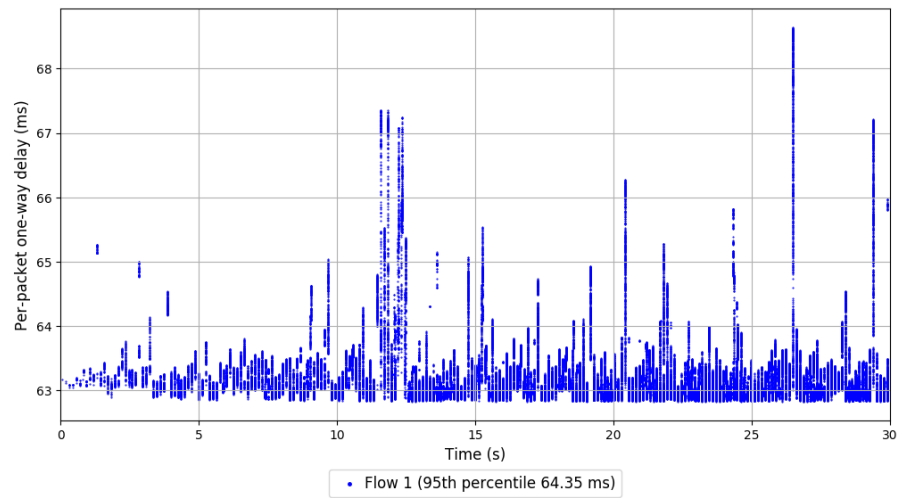
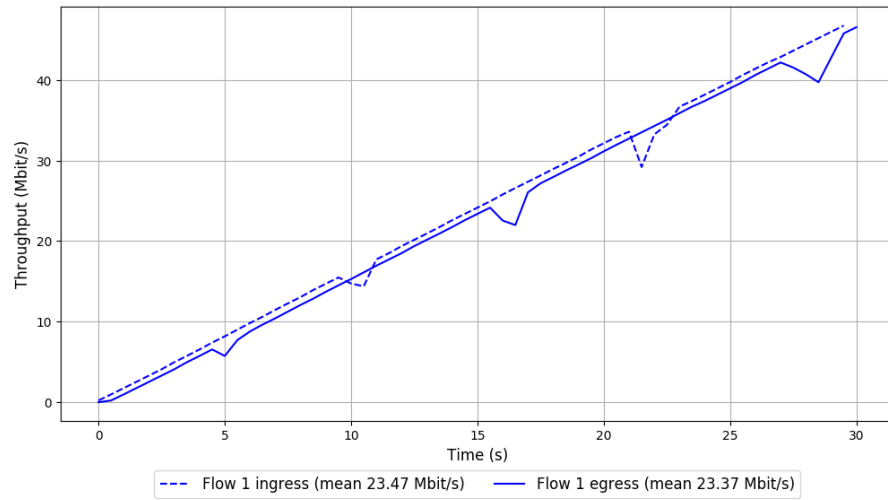


Run 4: Statistics of LEDBAT

Start at: 2019-10-03 07:33:35  
End at: 2019-10-03 07:34:05  
Local clock offset: -0.034 ms  
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2019-10-03 09:53:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 23.37 Mbit/s  
95th percentile per-packet one-way delay: 64.349 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 23.37 Mbit/s  
95th percentile per-packet one-way delay: 64.349 ms  
Loss rate: 0.84%

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

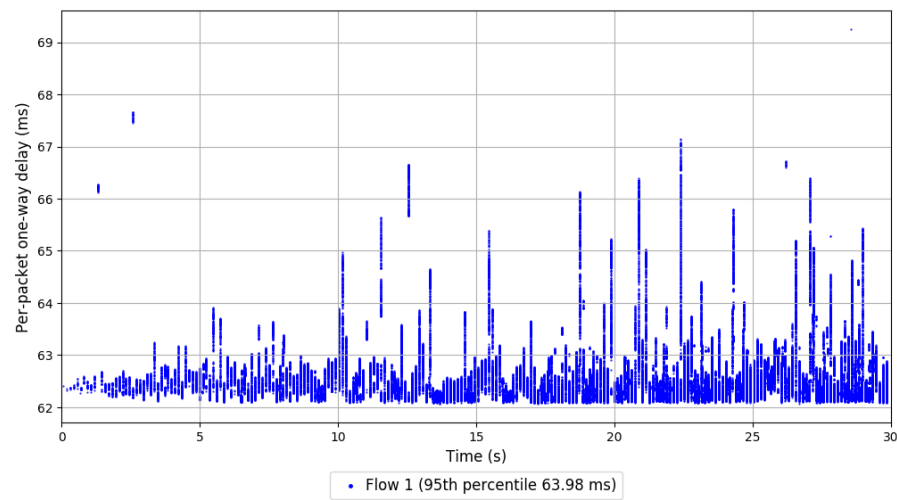
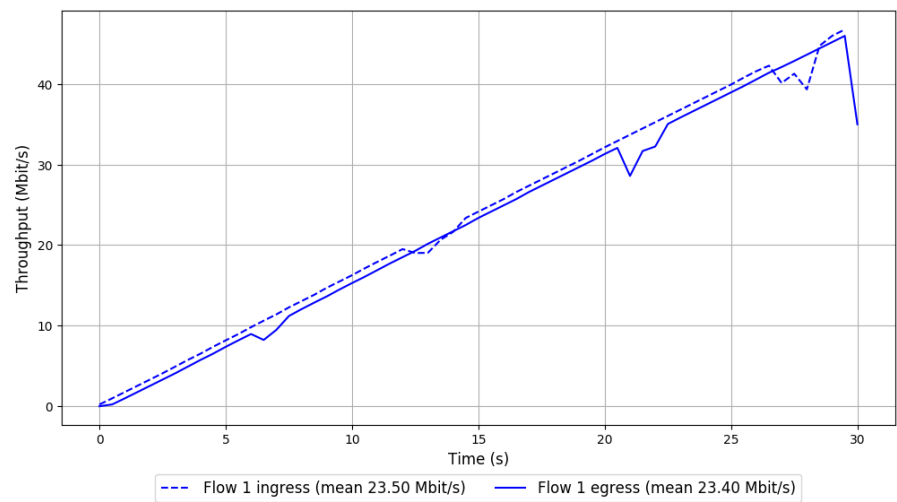


Run 5: Statistics of LEDBAT

Start at: 2019-10-03 08:08:04  
End at: 2019-10-03 08:08:34  
Local clock offset: -0.035 ms  
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2019-10-03 09:53:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 23.40 Mbit/s  
95th percentile per-packet one-way delay: 63.980 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 23.40 Mbit/s  
95th percentile per-packet one-way delay: 63.980 ms  
Loss rate: 0.84%

Run 5: Report of LEDBAT — Data Link



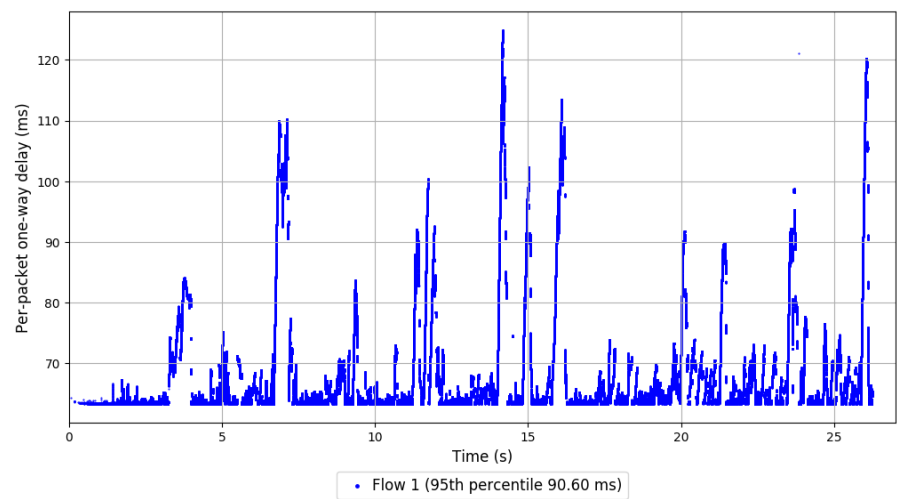
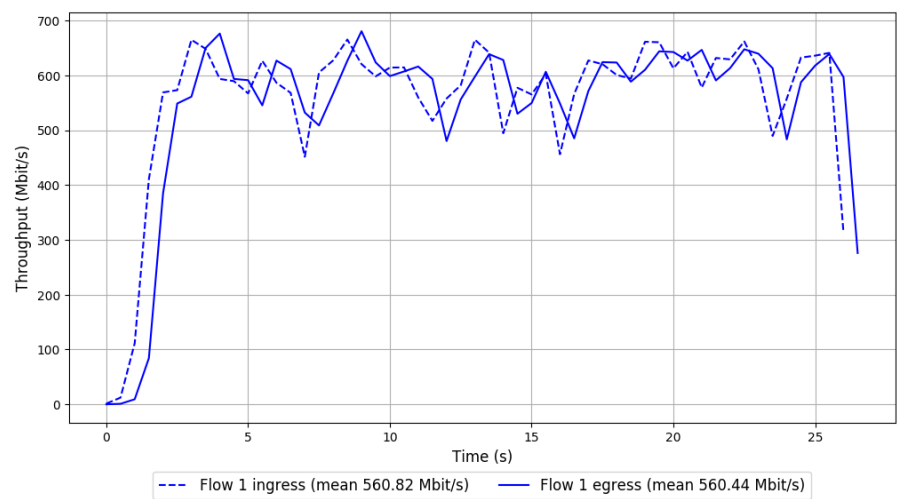
```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-10-03 05:34:03
End at: 2019-10-03 05:34:33
Local clock offset: 0.022 ms
Remote clock offset: -0.223 ms

# Below is generated by plot.py at 2019-10-03 09:55:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 560.44 Mbit/s
95th percentile per-packet one-way delay: 90.603 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 560.44 Mbit/s
95th percentile per-packet one-way delay: 90.603 ms
Loss rate: 0.56%
```



Run 1: Report of Muses\_DecisionTree — Data Link

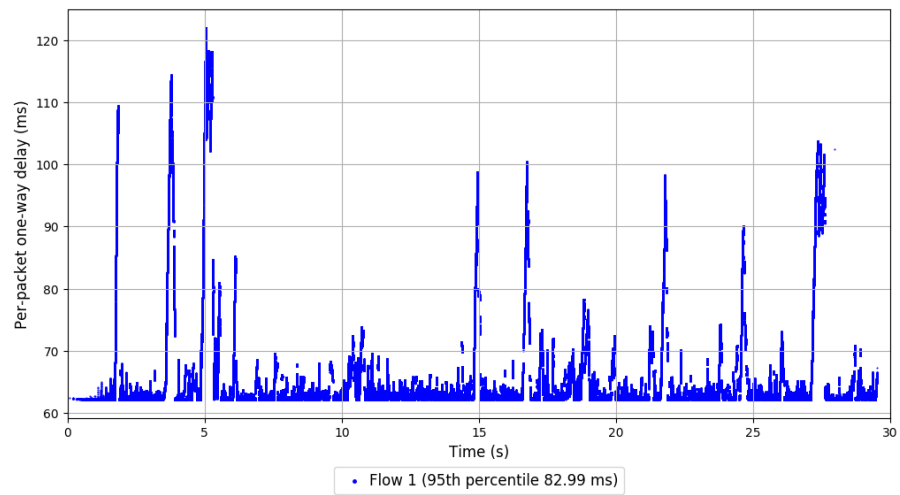
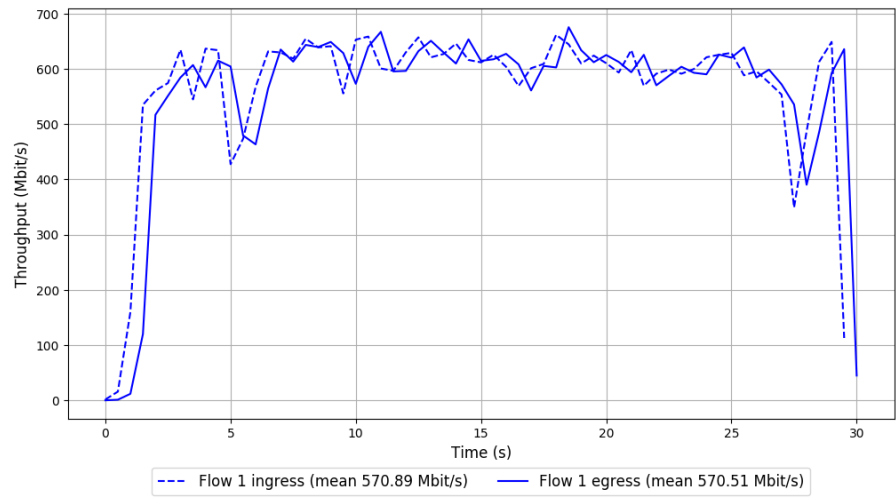


Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-10-03 06:08:20  
End at: 2019-10-03 06:08:50  
Local clock offset: -0.073 ms  
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2019-10-03 09:56:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 570.51 Mbit/s  
95th percentile per-packet one-way delay: 82.990 ms  
Loss rate: 0.48%  
-- Flow 1:  
Average throughput: 570.51 Mbit/s  
95th percentile per-packet one-way delay: 82.990 ms  
Loss rate: 0.48%

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



Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-10-03 06:42:54

End at: 2019-10-03 06:43:25

Local clock offset: -0.073 ms

Remote clock offset: 0.642 ms

# Below is generated by plot.py at 2019-10-03 09:57:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 567.28 Mbit/s

95th percentile per-packet one-way delay: 82.516 ms

Loss rate: 0.43%

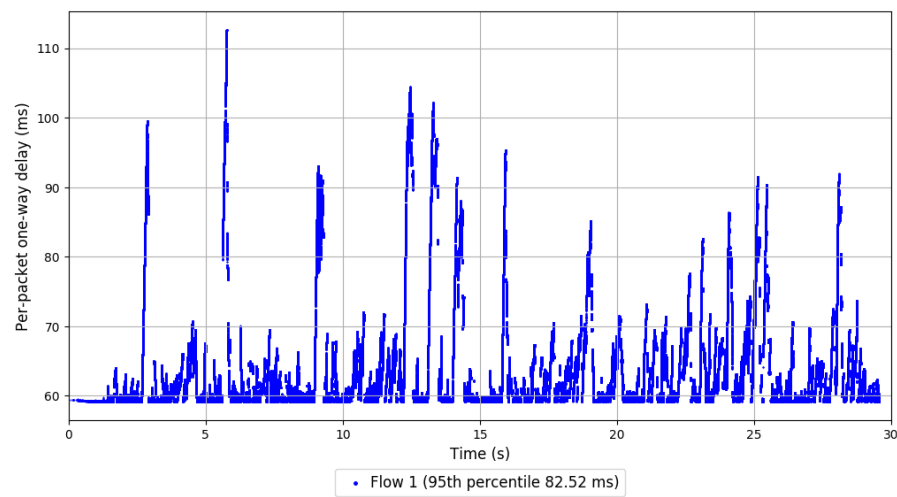
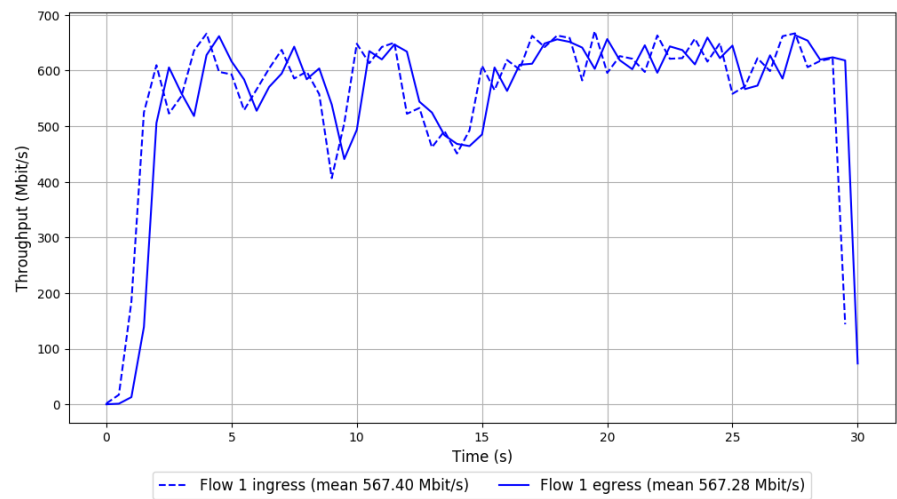
-- Flow 1:

Average throughput: 567.28 Mbit/s

95th percentile per-packet one-way delay: 82.516 ms

Loss rate: 0.43%

Run 3: Report of Muses\_DecisionTree — Data Link



Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-10-03 07:17:54

End at: 2019-10-03 07:18:24

Local clock offset: -0.043 ms

Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2019-10-03 09:57:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 470.04 Mbit/s

95th percentile per-packet one-way delay: 94.721 ms

Loss rate: 0.53%

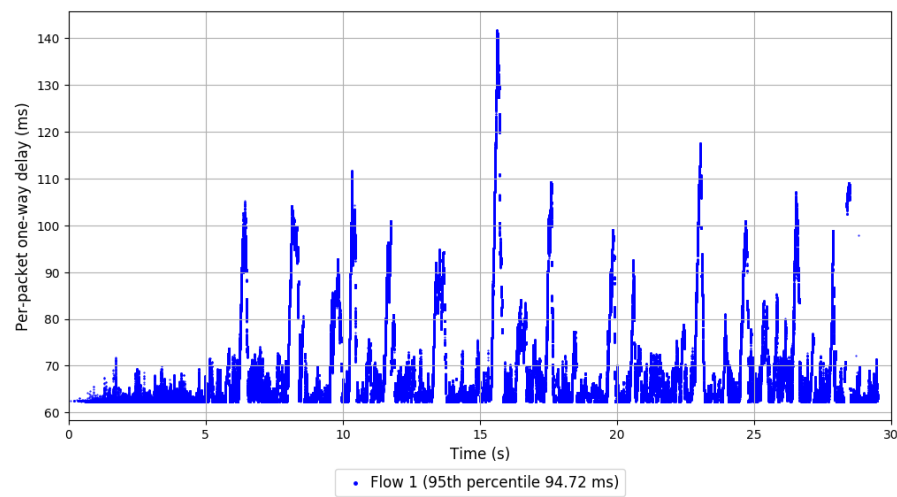
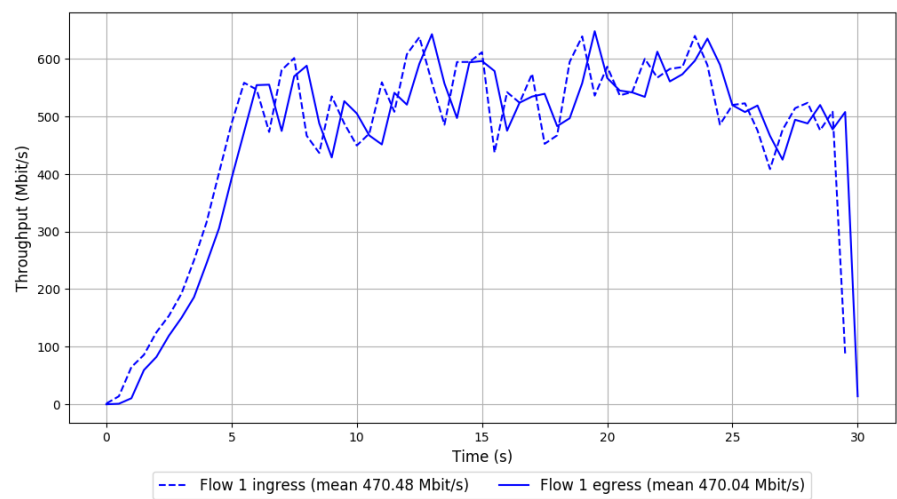
-- Flow 1:

Average throughput: 470.04 Mbit/s

95th percentile per-packet one-way delay: 94.721 ms

Loss rate: 0.53%

Run 4: Report of Muses\_DecisionTree — Data Link



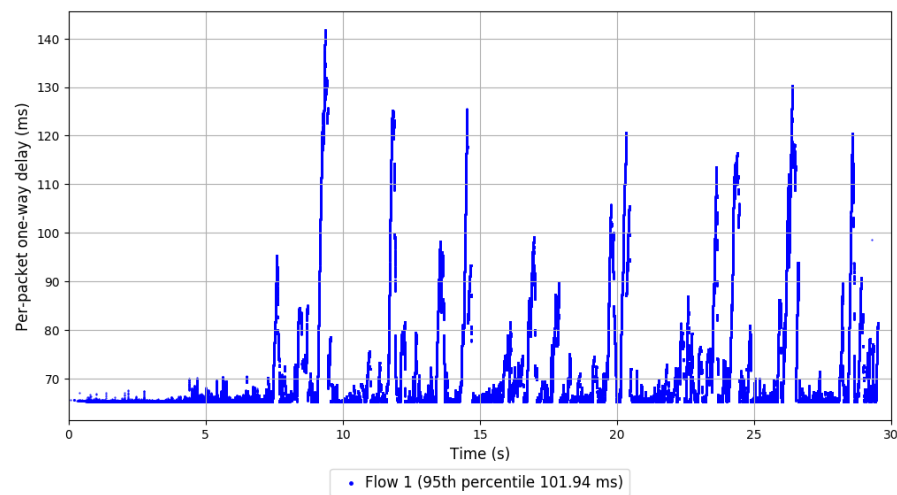
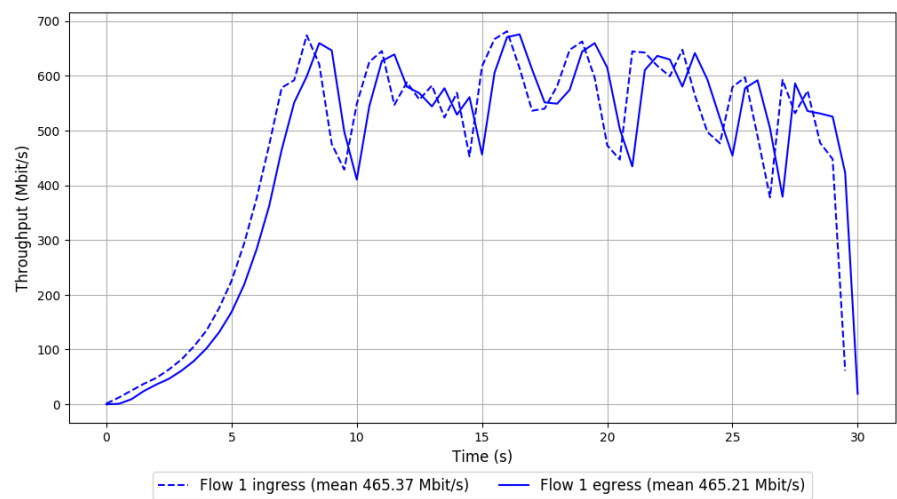
Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-10-03 07:52:36  
End at: 2019-10-03 07:53:06  
Local clock offset: -0.041 ms  
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2019-10-03 09:57:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 465.21 Mbit/s  
95th percentile per-packet one-way delay: 101.938 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 465.21 Mbit/s  
95th percentile per-packet one-way delay: 101.938 ms  
Loss rate: 0.47%



Run 5: Report of Muses\_DecisionTree — Data Link

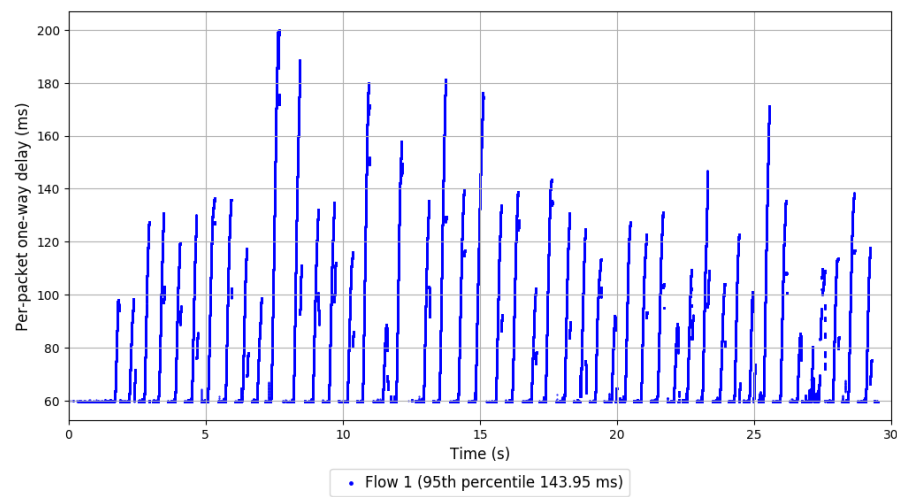
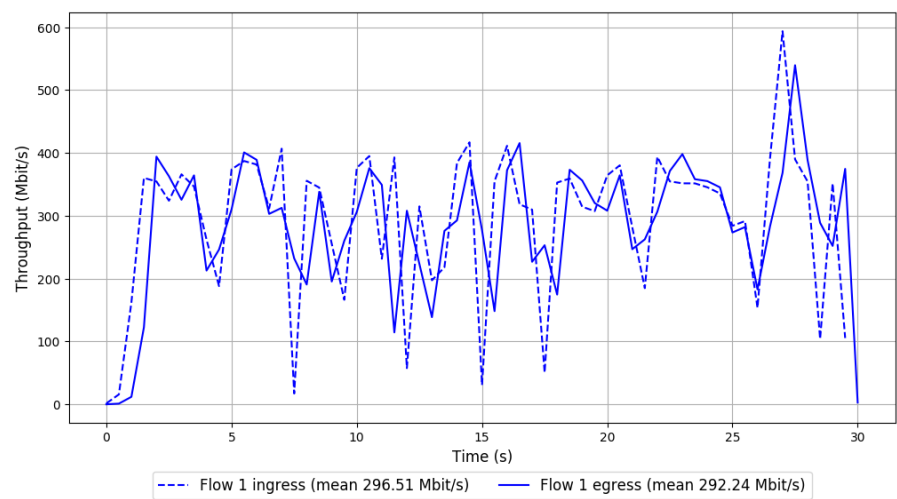


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-10-03 05:35:35
End at: 2019-10-03 05:36:05
Local clock offset: 0.018 ms
Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2019-10-03 09:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 292.24 Mbit/s
95th percentile per-packet one-way delay: 143.947 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 292.24 Mbit/s
95th percentile per-packet one-way delay: 143.947 ms
Loss rate: 1.85%
```

Run 1: Report of Muses\_DecisionTreeH0 — Data Link

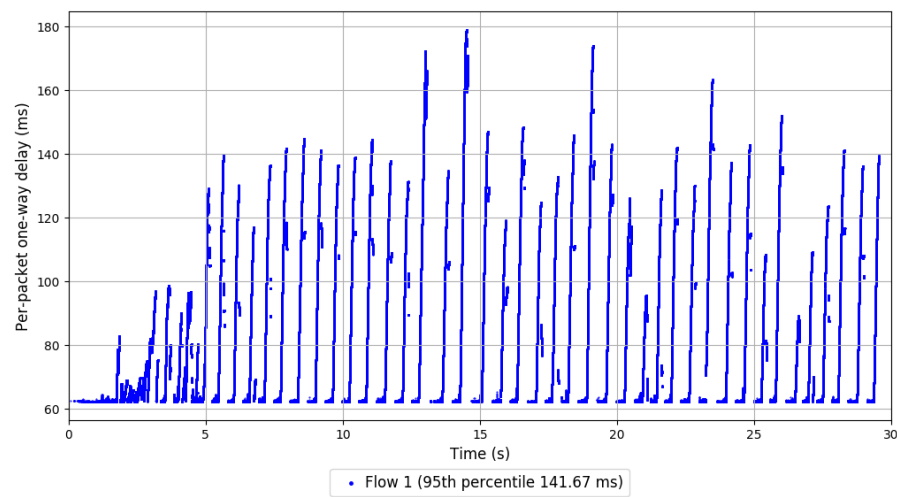
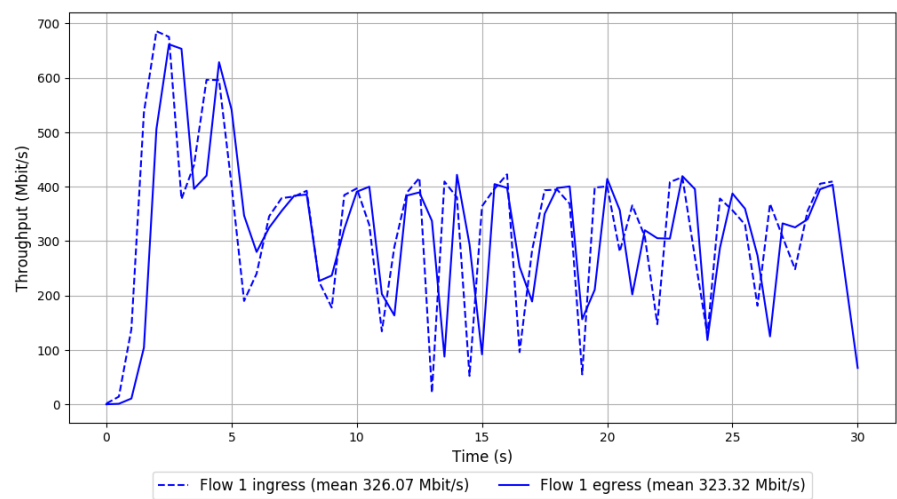


```
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-10-03 06:09:55
End at: 2019-10-03 06:10:25
Local clock offset: -0.031 ms
Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2019-10-03 09:59:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 323.32 Mbit/s
95th percentile per-packet one-way delay: 141.671 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 323.32 Mbit/s
95th percentile per-packet one-way delay: 141.671 ms
Loss rate: 0.84%
```

Run 2: Report of Muses\_DecisionTreeH0 — Data Link

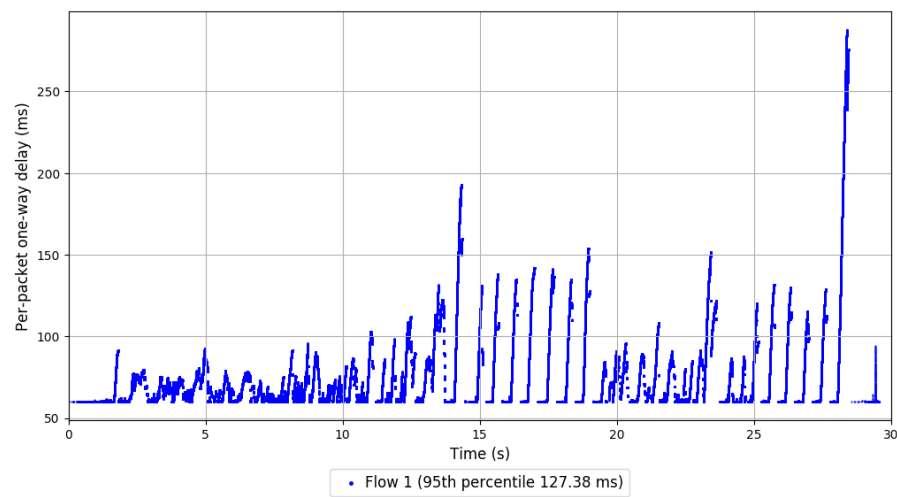
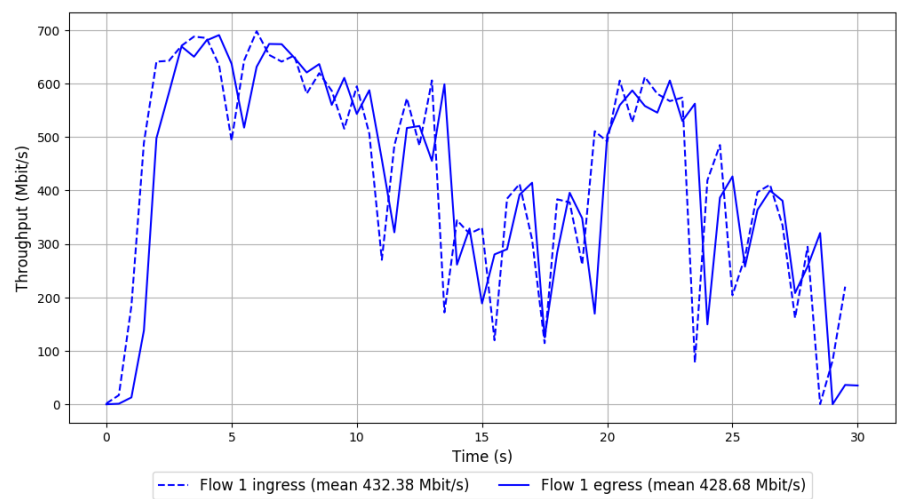


Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-03 06:44:30  
End at: 2019-10-03 06:45:00  
Local clock offset: -0.054 ms  
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2019-10-03 10:01:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 428.68 Mbit/s  
95th percentile per-packet one-way delay: 127.377 ms  
Loss rate: 1.28%  
-- Flow 1:  
Average throughput: 428.68 Mbit/s  
95th percentile per-packet one-way delay: 127.377 ms  
Loss rate: 1.28%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-03 07:19:25

End at: 2019-10-03 07:19:55

Local clock offset: -0.037 ms

Remote clock offset: 0.521 ms

# Below is generated by plot.py at 2019-10-03 10:02:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 405.48 Mbit/s

95th percentile per-packet one-way delay: 133.350 ms

Loss rate: 1.27%

-- Flow 1:

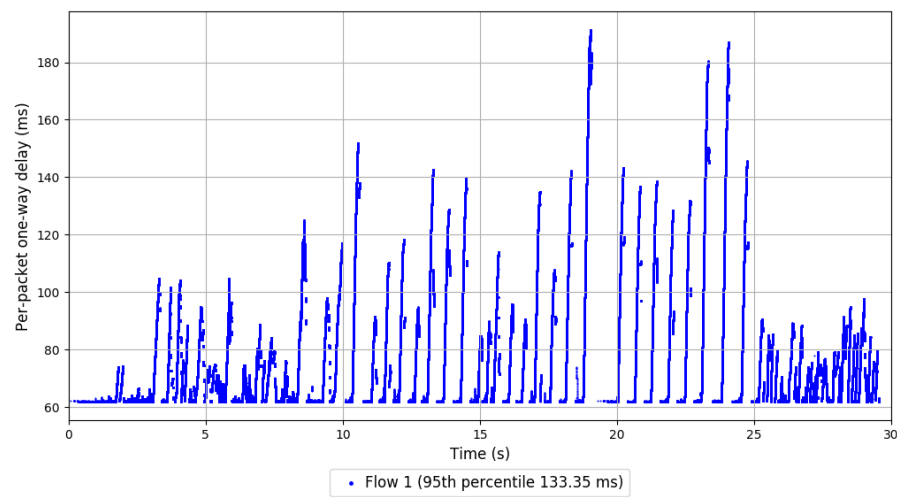
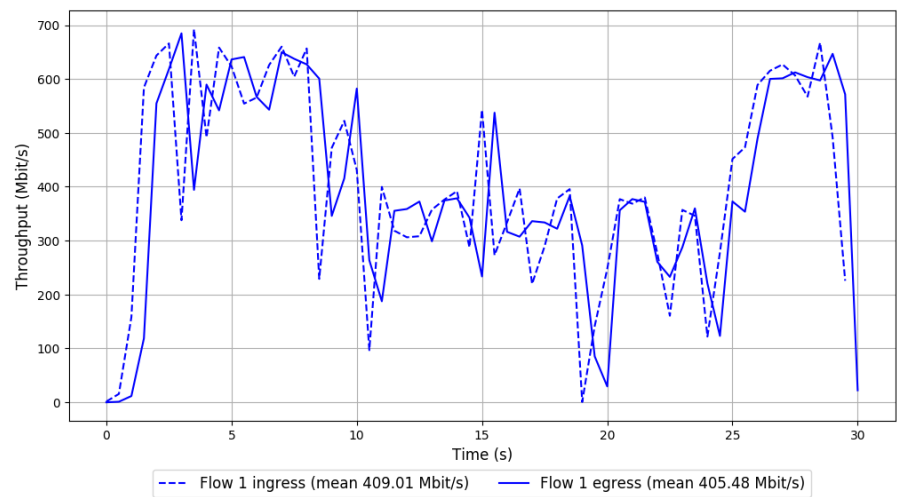
Average throughput: 405.48 Mbit/s

95th percentile per-packet one-way delay: 133.350 ms

Loss rate: 1.27%



Run 4: Report of Muses\_DecisionTreeH0 — Data Link



Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-03 07:54:07

End at: 2019-10-03 07:54:37

Local clock offset: -0.03 ms

Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2019-10-03 10:06:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 507.17 Mbit/s

95th percentile per-packet one-way delay: 74.085 ms

Loss rate: 0.55%

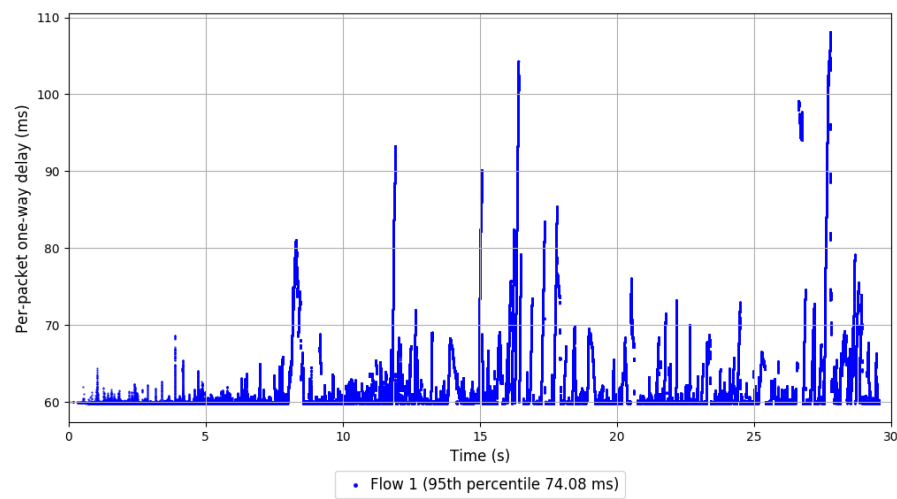
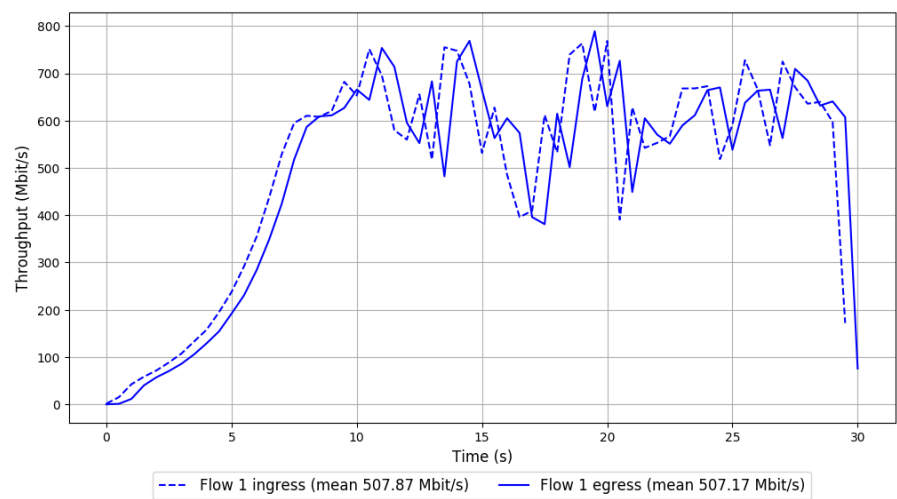
-- Flow 1:

Average throughput: 507.17 Mbit/s

95th percentile per-packet one-way delay: 74.085 ms

Loss rate: 0.55%

Run 5: Report of Muses\_DecisionTreeH0 — Data Link

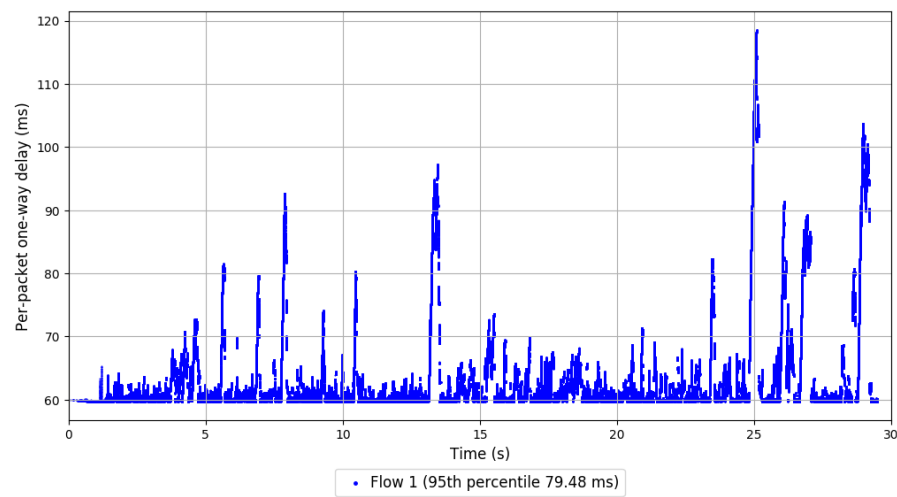
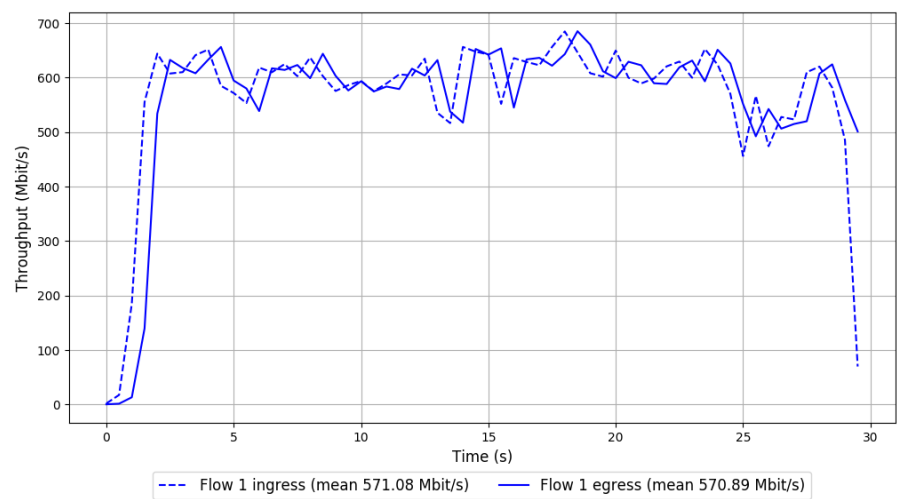


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-10-03 05:50:31
End at: 2019-10-03 05:51:01
Local clock offset: 0.056 ms
Remote clock offset: 0.107 ms

# Below is generated by plot.py at 2019-10-03 10:08:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 570.89 Mbit/s
95th percentile per-packet one-way delay: 79.481 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 570.89 Mbit/s
95th percentile per-packet one-way delay: 79.481 ms
Loss rate: 0.44%
```

Run 1: Report of Muses\_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-03 06:25:01

End at: 2019-10-03 06:25:31

Local clock offset: -0.073 ms

Remote clock offset: -0.18 ms

# Below is generated by plot.py at 2019-10-03 10:08:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 528.83 Mbit/s

95th percentile per-packet one-way delay: 98.510 ms

Loss rate: 0.49%

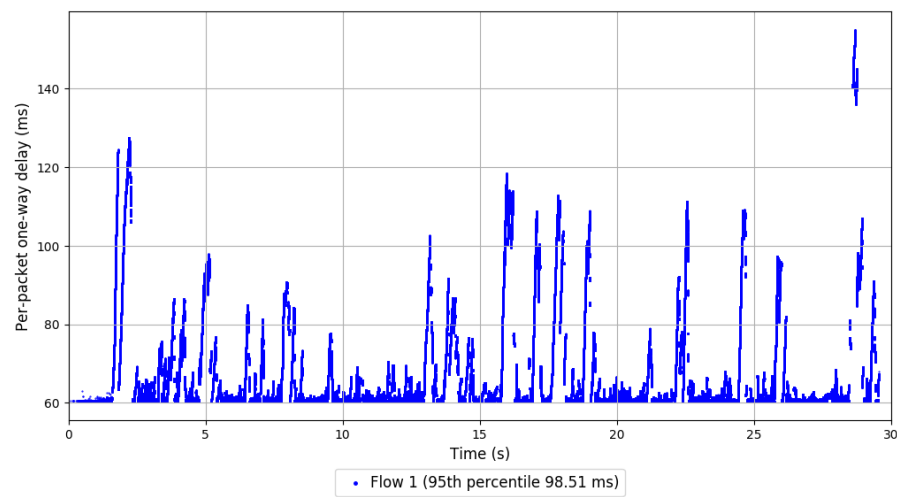
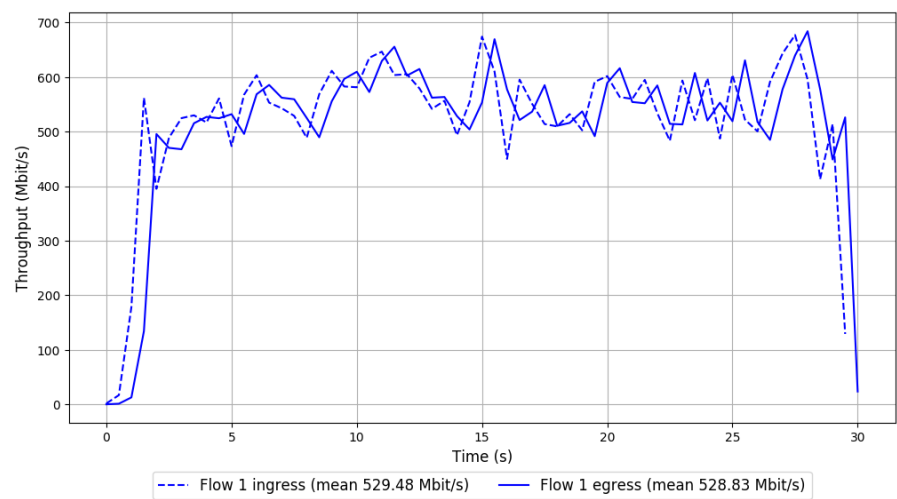
-- Flow 1:

Average throughput: 528.83 Mbit/s

95th percentile per-packet one-way delay: 98.510 ms

Loss rate: 0.49%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link



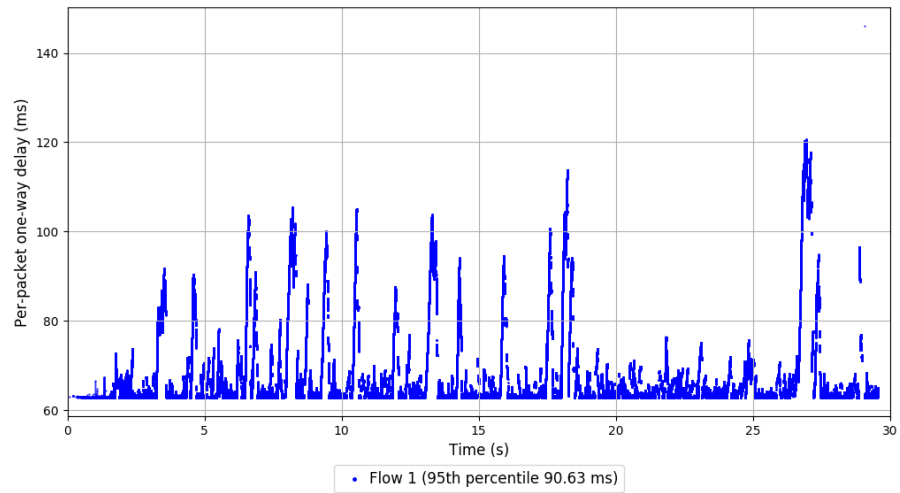
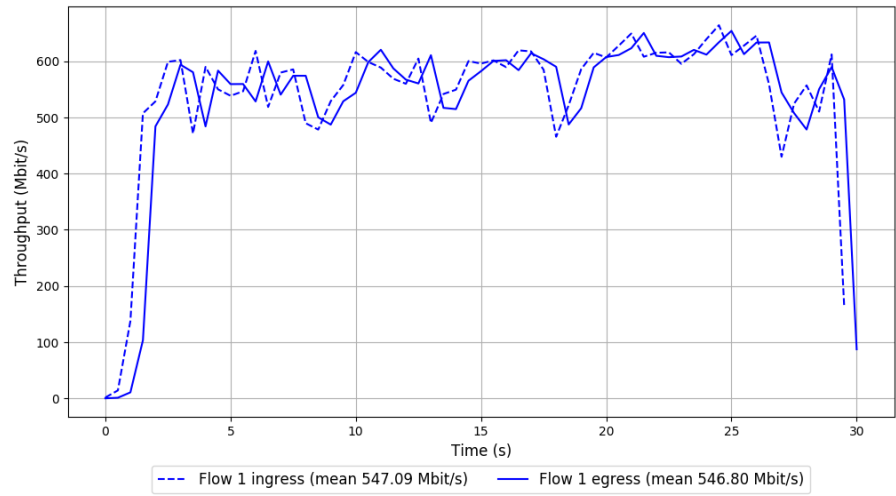
Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-03 07:00:05  
End at: 2019-10-03 07:00:35  
Local clock offset: -0.052 ms  
Remote clock offset: -0.294 ms

# Below is generated by plot.py at 2019-10-03 10:08:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 546.80 Mbit/s  
95th percentile per-packet one-way delay: 90.630 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 546.80 Mbit/s  
95th percentile per-packet one-way delay: 90.630 ms  
Loss rate: 0.49%



### Run 3: Report of Muses\_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-03 07:34:46

End at: 2019-10-03 07:35:16

Local clock offset: -0.053 ms

Remote clock offset: 0.019 ms

# Below is generated by plot.py at 2019-10-03 10:09:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 548.03 Mbit/s

95th percentile per-packet one-way delay: 89.440 ms

Loss rate: 0.48%

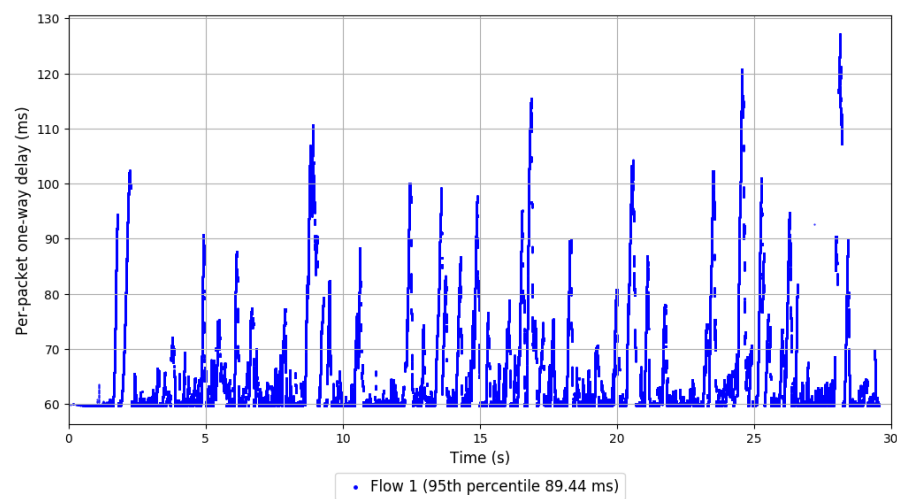
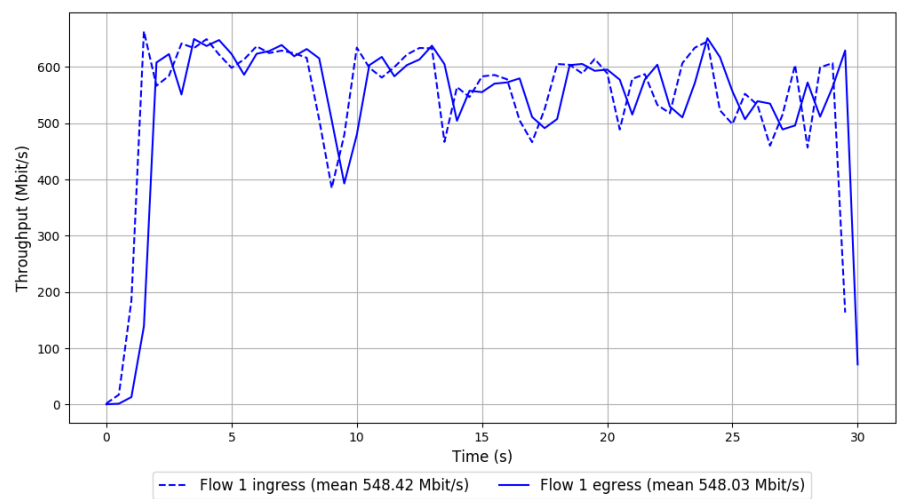
-- Flow 1:

Average throughput: 548.03 Mbit/s

95th percentile per-packet one-way delay: 89.440 ms

Loss rate: 0.48%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link

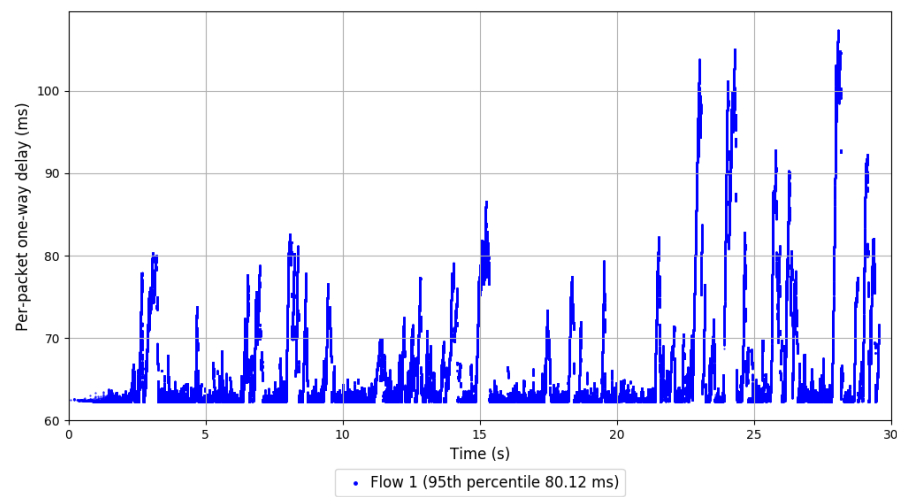
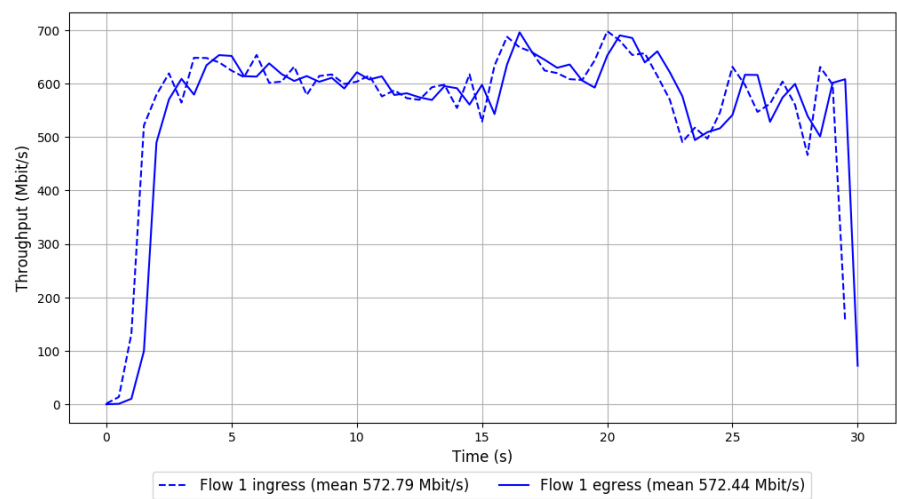


Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-03 08:09:15  
End at: 2019-10-03 08:09:45  
Local clock offset: -0.005 ms  
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2019-10-03 10:10:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 572.44 Mbit/s  
95th percentile per-packet one-way delay: 80.116 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 572.44 Mbit/s  
95th percentile per-packet one-way delay: 80.116 ms  
Loss rate: 0.49%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link

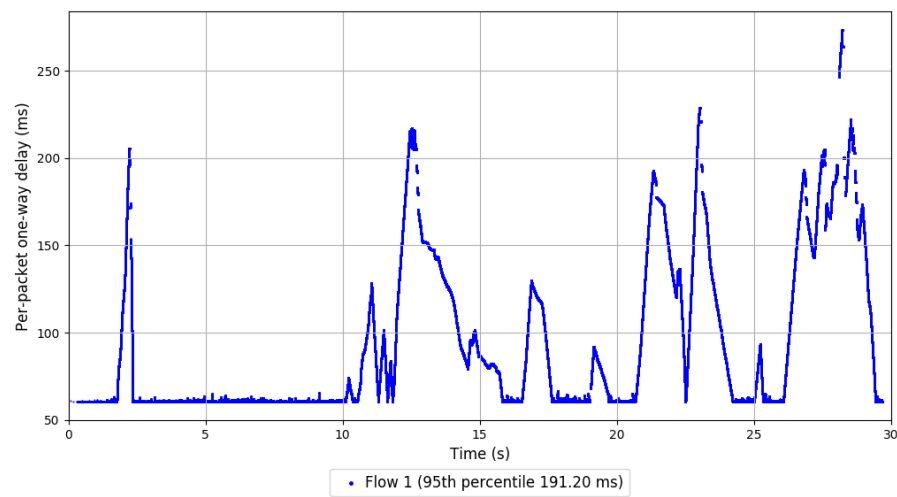
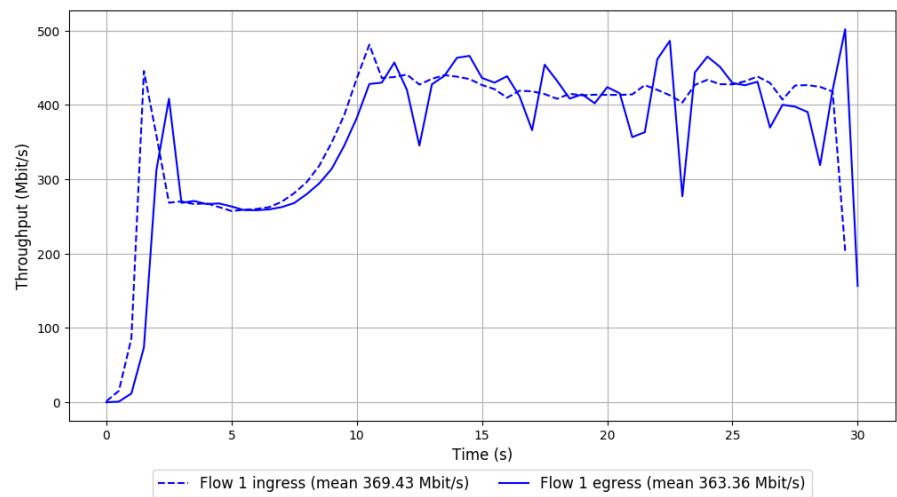


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-10-03 05:58:17
End at: 2019-10-03 05:58:47
Local clock offset: 0.054 ms
Remote clock offset: -0.316 ms

# Below is generated by plot.py at 2019-10-03 10:15:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 363.36 Mbit/s
95th percentile per-packet one-way delay: 191.203 ms
Loss rate: 2.05%
-- Flow 1:
Average throughput: 363.36 Mbit/s
95th percentile per-packet one-way delay: 191.203 ms
Loss rate: 2.05%
```

Run 1: Report of PCC-Allegro — Data Link



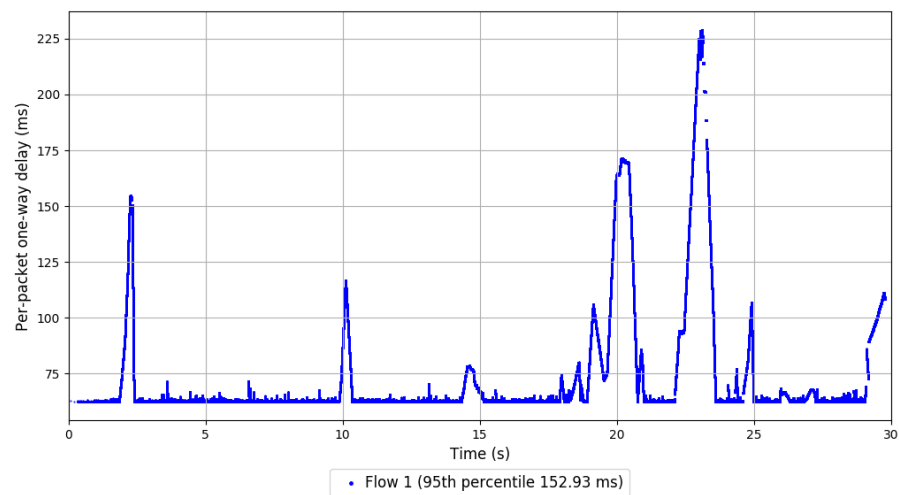
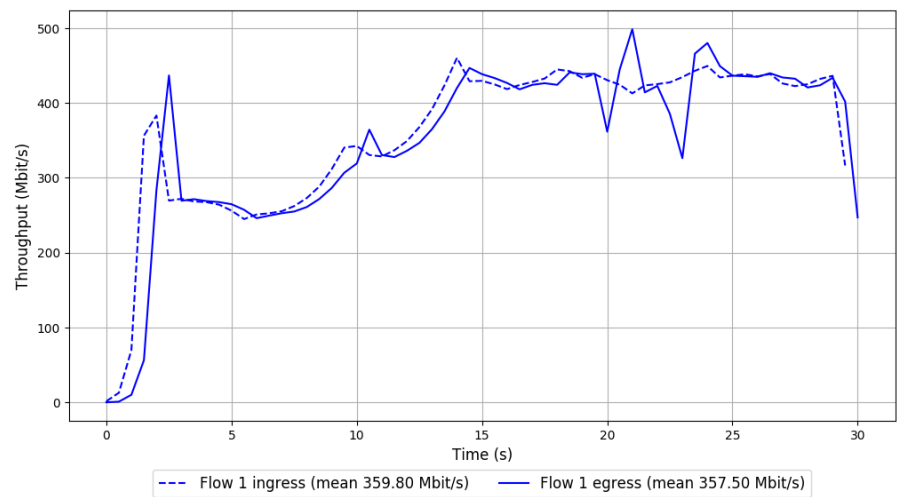
Run 2: Statistics of PCC-Allegro

Start at: 2019-10-03 06:32:47  
End at: 2019-10-03 06:33:17  
Local clock offset: -0.103 ms  
Remote clock offset: -0.184 ms

# Below is generated by plot.py at 2019-10-03 10:16:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 357.50 Mbit/s  
95th percentile per-packet one-way delay: 152.932 ms  
Loss rate: 1.07%  
-- Flow 1:  
Average throughput: 357.50 Mbit/s  
95th percentile per-packet one-way delay: 152.932 ms  
Loss rate: 1.07%



Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-10-03 07:07:43

End at: 2019-10-03 07:08:13

Local clock offset: -0.054 ms

Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2019-10-03 10:20:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 357.64 Mbit/s

95th percentile per-packet one-way delay: 190.419 ms

Loss rate: 2.52%

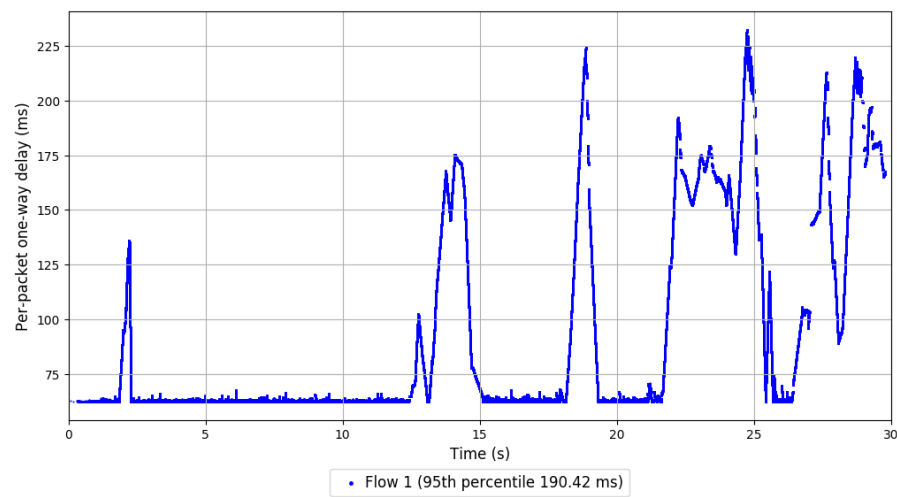
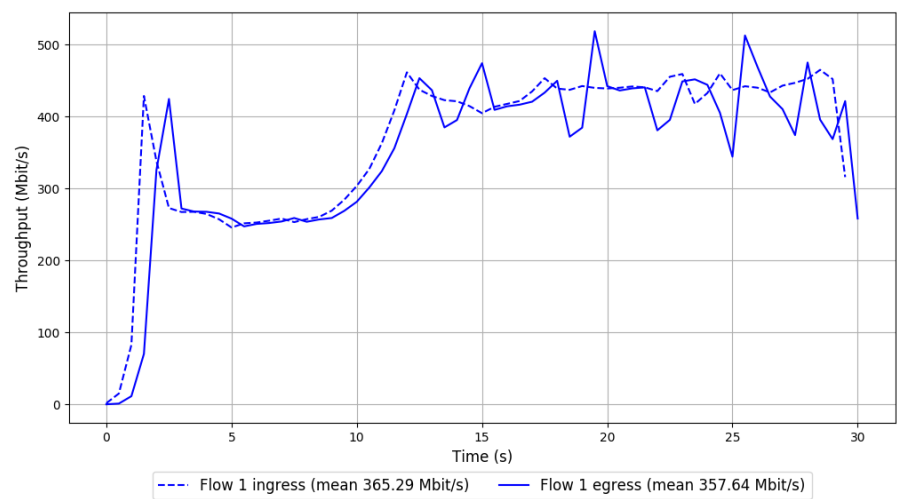
-- Flow 1:

Average throughput: 357.64 Mbit/s

95th percentile per-packet one-way delay: 190.419 ms

Loss rate: 2.52%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-10-03 07:42:28

End at: 2019-10-03 07:42:58

Local clock offset: -0.034 ms

Remote clock offset: -0.162 ms

# Below is generated by plot.py at 2019-10-03 10:21:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 343.45 Mbit/s

95th percentile per-packet one-way delay: 104.180 ms

Loss rate: 0.56%

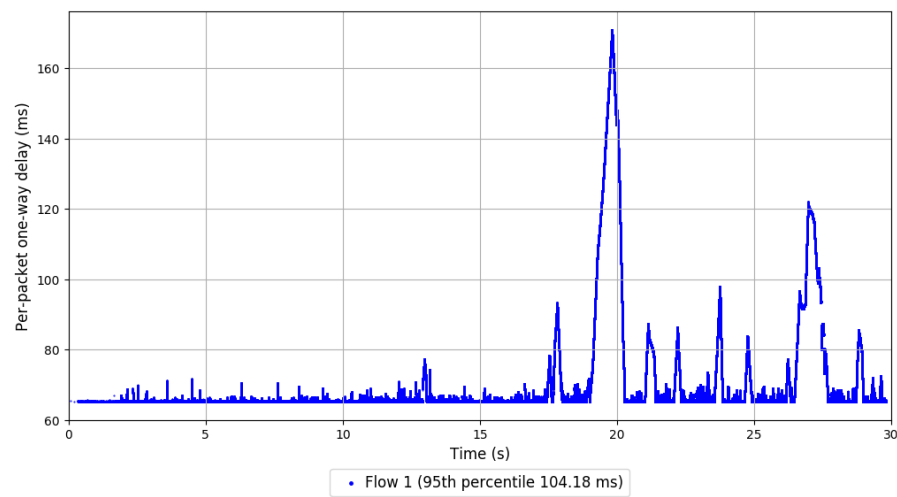
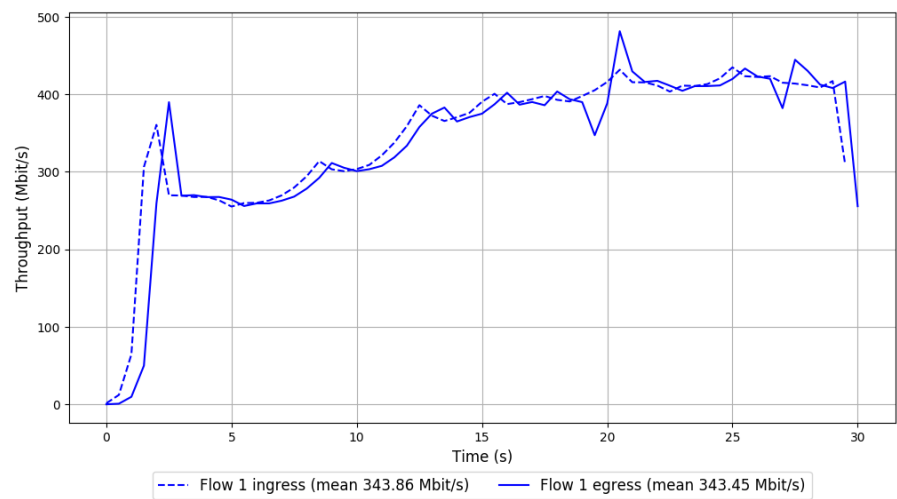
-- Flow 1:

Average throughput: 343.45 Mbit/s

95th percentile per-packet one-way delay: 104.180 ms

Loss rate: 0.56%

Run 4: Report of PCC-Allegro — Data Link

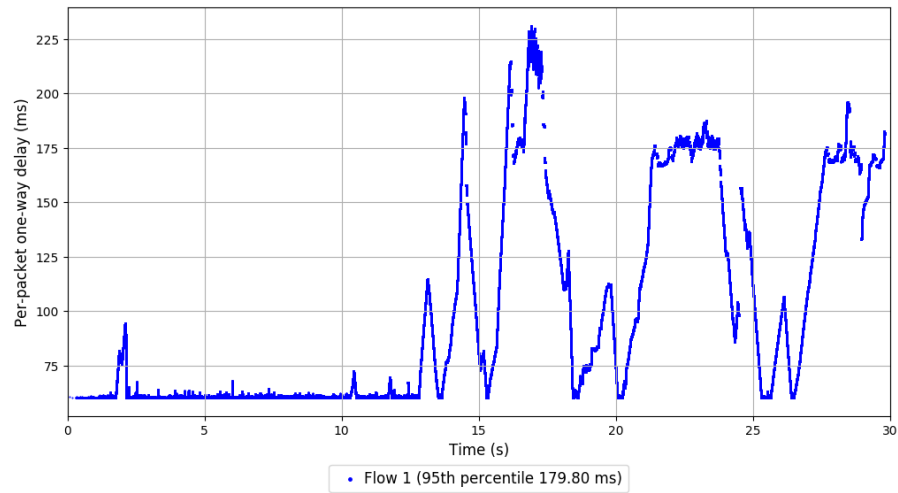
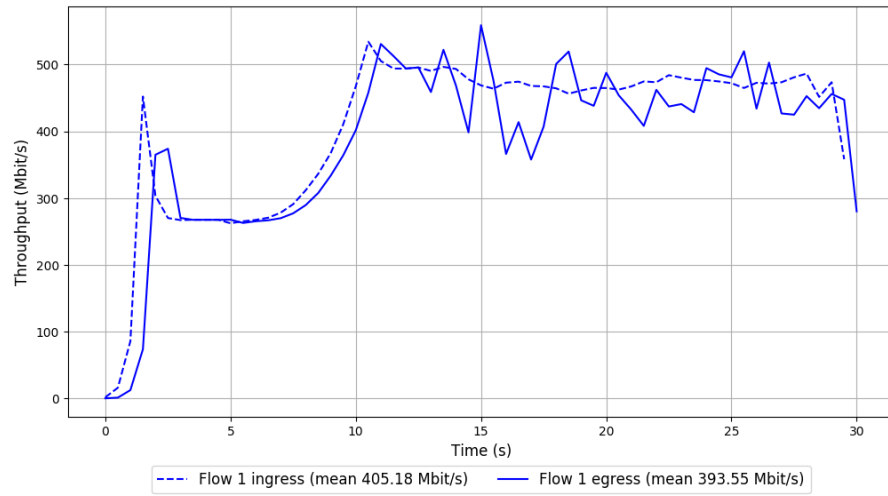


Run 5: Statistics of PCC-Allegro

Start at: 2019-10-03 08:16:59  
End at: 2019-10-03 08:17:29  
Local clock offset: -0.031 ms  
Remote clock offset: -0.202 ms

# Below is generated by plot.py at 2019-10-03 10:23:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 393.55 Mbit/s  
95th percentile per-packet one-way delay: 179.804 ms  
Loss rate: 3.27%  
-- Flow 1:  
Average throughput: 393.55 Mbit/s  
95th percentile per-packet one-way delay: 179.804 ms  
Loss rate: 3.27%

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



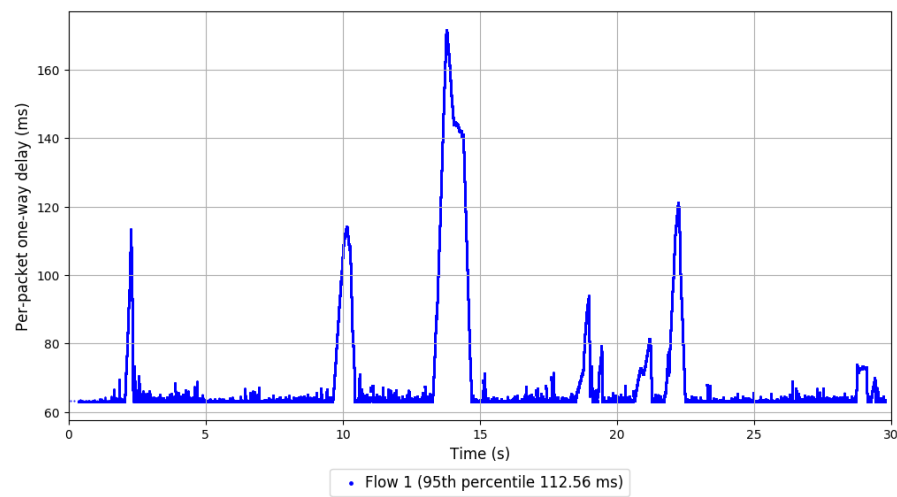
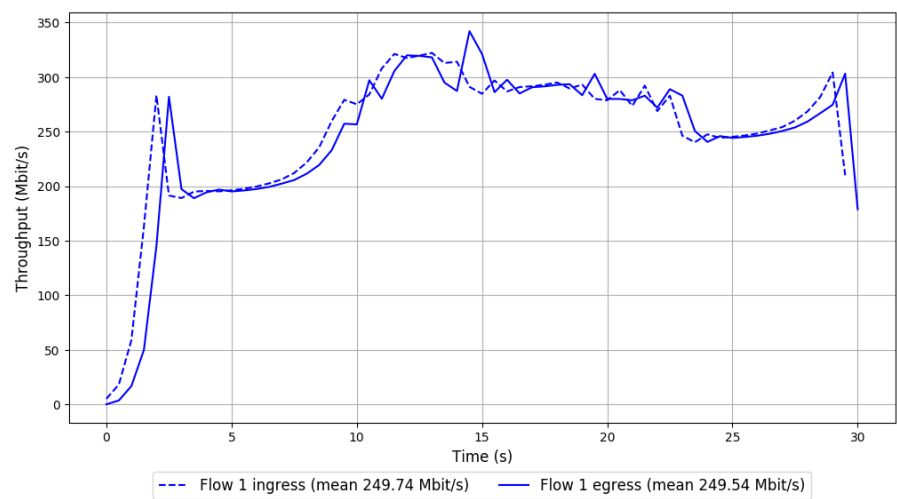
```
Run 1: Statistics of PCC-Expr

Start at: 2019-10-03 06:04:33
End at: 2019-10-03 06:05:03
Local clock offset: 0.002 ms
Remote clock offset: -0.164 ms

# Below is generated by plot.py at 2019-10-03 10:23:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 249.54 Mbit/s
95th percentile per-packet one-way delay: 112.562 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 249.54 Mbit/s
95th percentile per-packet one-way delay: 112.562 ms
Loss rate: 0.50%
```



Run 1: Report of PCC-Expr — Data Link

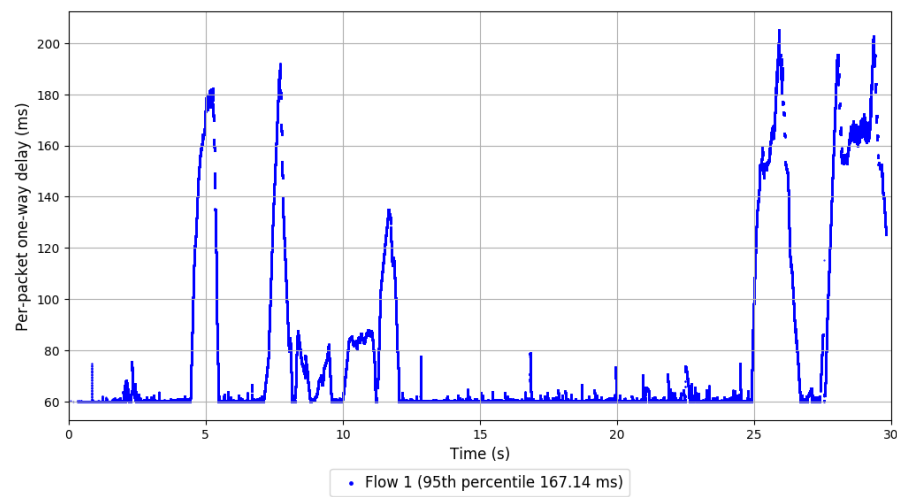
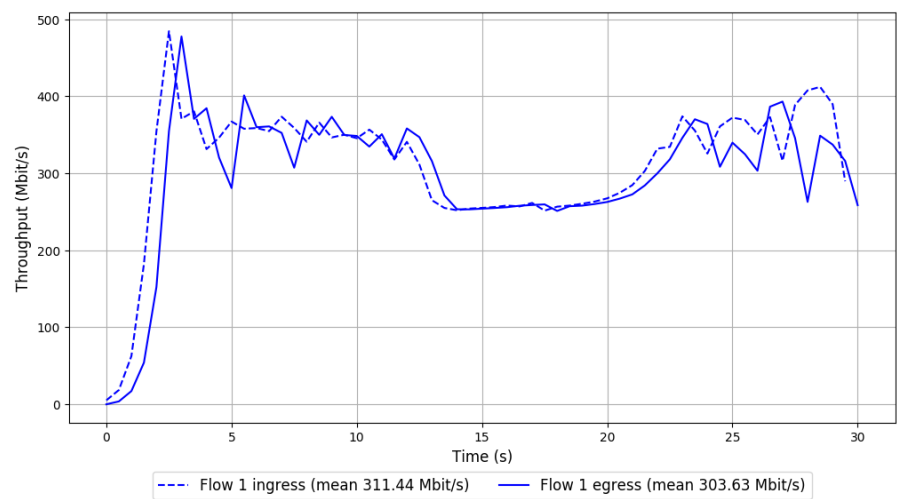


Run 2: Statistics of PCC-Expr

Start at: 2019-10-03 06:39:04  
End at: 2019-10-03 06:39:34  
Local clock offset: -0.056 ms  
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2019-10-03 10:23:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 303.63 Mbit/s  
95th percentile per-packet one-way delay: 167.139 ms  
Loss rate: 2.92%  
-- Flow 1:  
Average throughput: 303.63 Mbit/s  
95th percentile per-packet one-way delay: 167.139 ms  
Loss rate: 2.92%

Run 2: Report of PCC-Expr — Data Link

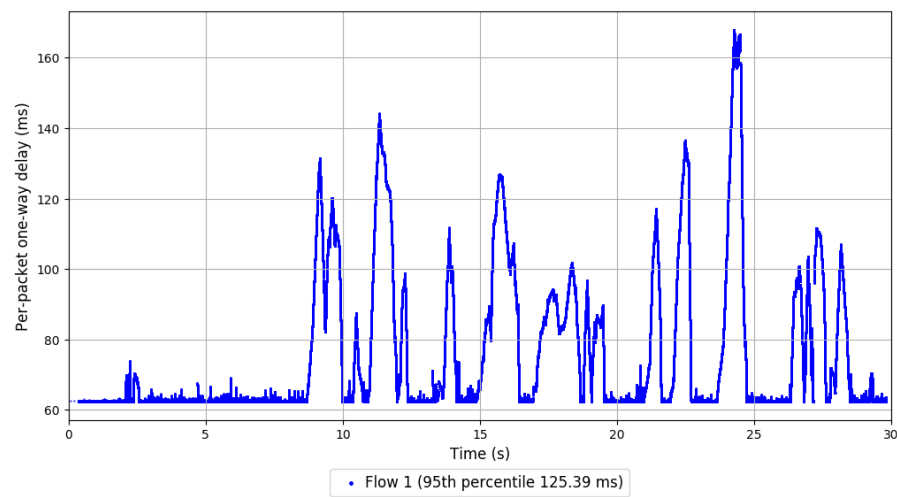
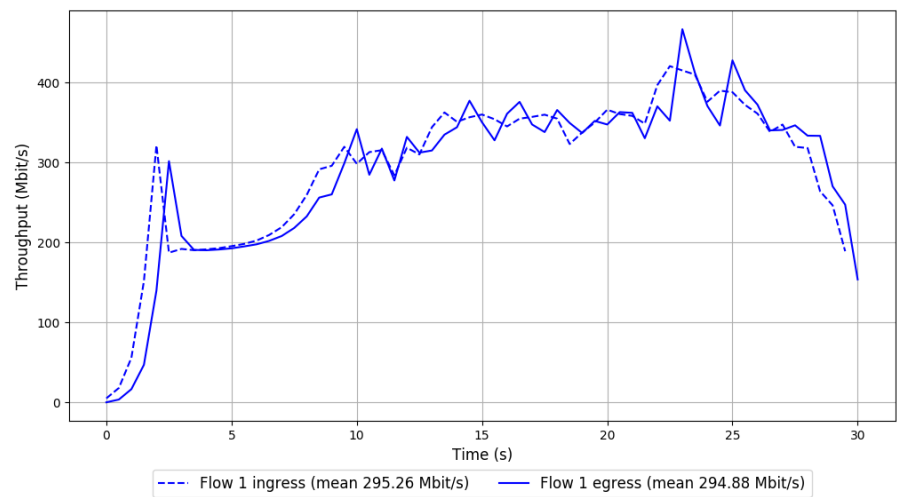


Run 3: Statistics of PCC-Expr

Start at: 2019-10-03 07:14:03  
End at: 2019-10-03 07:14:33  
Local clock offset: -0.054 ms  
Remote clock offset: -0.287 ms

# Below is generated by plot.py at 2019-10-03 10:23:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 294.88 Mbit/s  
95th percentile per-packet one-way delay: 125.392 ms  
Loss rate: 0.56%  
-- Flow 1:  
Average throughput: 294.88 Mbit/s  
95th percentile per-packet one-way delay: 125.392 ms  
Loss rate: 0.56%

Run 3: Report of PCC-Expr — Data Link

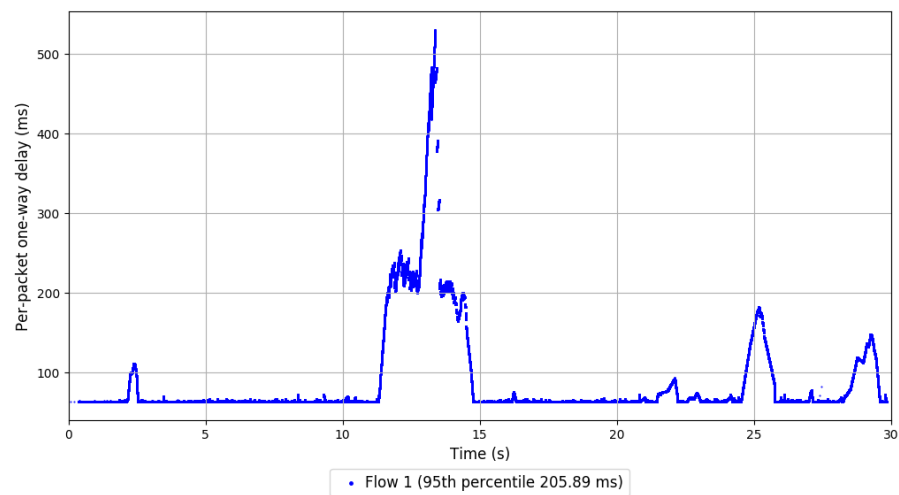
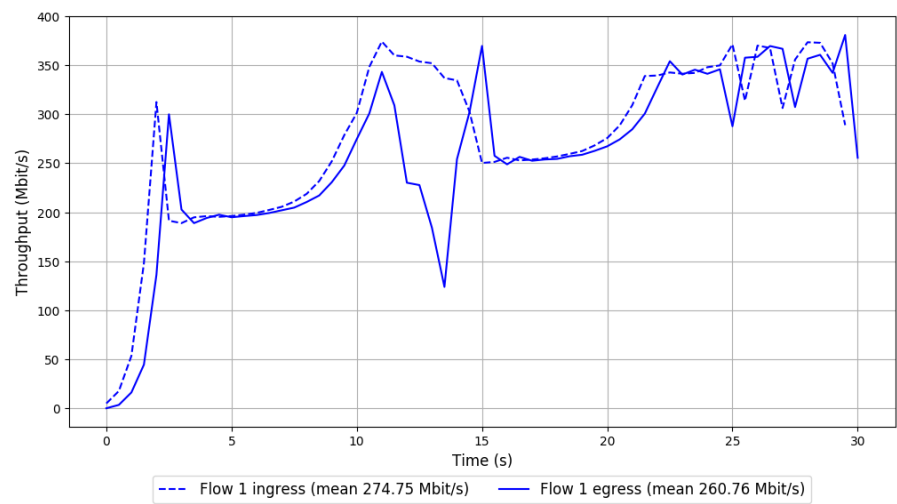


Run 4: Statistics of PCC-Expr

Start at: 2019-10-03 07:48:48  
End at: 2019-10-03 07:49:18  
Local clock offset: -0.041 ms  
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-10-03 10:26:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 260.76 Mbit/s  
95th percentile per-packet one-way delay: 205.886 ms  
Loss rate: 5.49%  
-- Flow 1:  
Average throughput: 260.76 Mbit/s  
95th percentile per-packet one-way delay: 205.886 ms  
Loss rate: 5.49%

Run 4: Report of PCC-Expr — Data Link



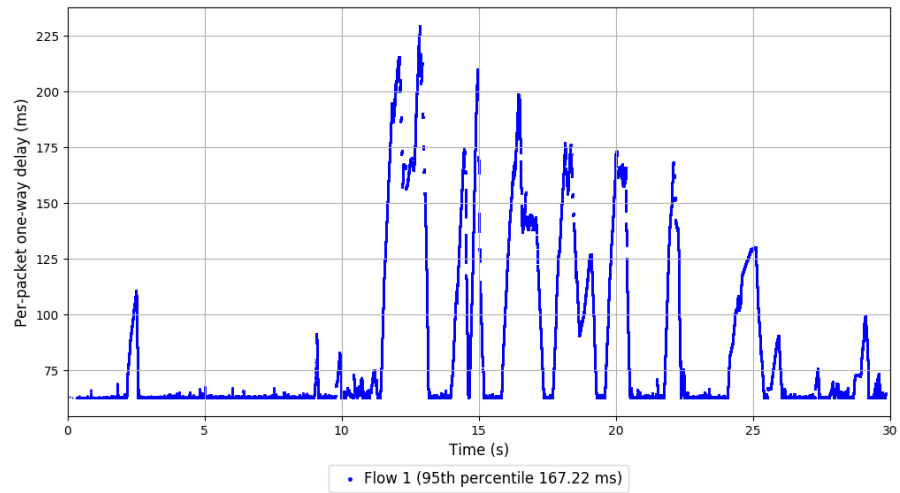
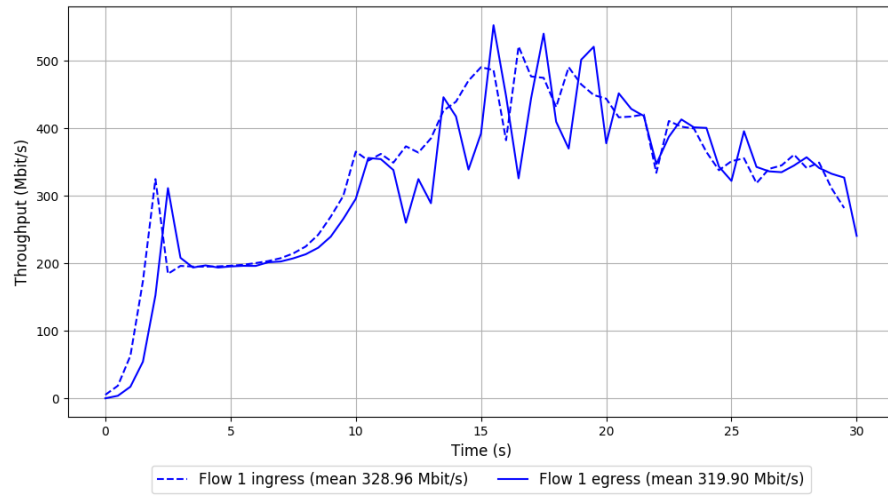
Run 5: Statistics of PCC-Expr

Start at: 2019-10-03 08:23:23  
End at: 2019-10-03 08:23:53  
Local clock offset: -0.047 ms  
Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2019-10-03 10:29:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 319.90 Mbit/s  
95th percentile per-packet one-way delay: 167.225 ms  
Loss rate: 3.17%  
-- Flow 1:  
Average throughput: 319.90 Mbit/s  
95th percentile per-packet one-way delay: 167.225 ms  
Loss rate: 3.17%



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



Run 1: Statistics of QUIC Cubic

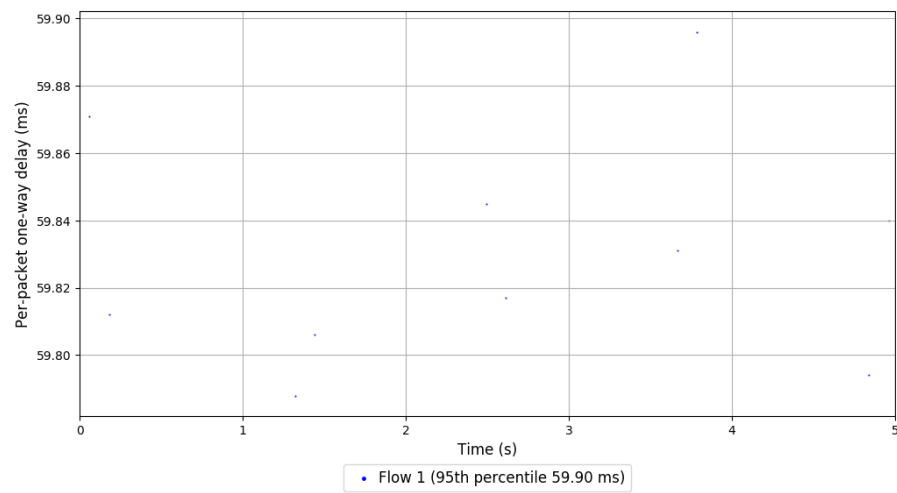
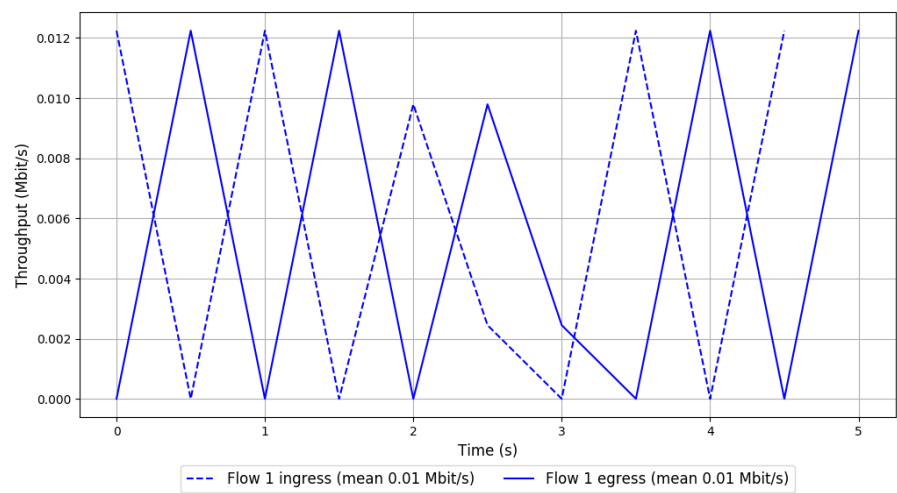
Start at: 2019-10-03 05:45:32

End at: 2019-10-03 05:46:02

Local clock offset: 0.02 ms

Remote clock offset: 0.036 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-10-03 06:19:54

End at: 2019-10-03 06:20:24

Local clock offset: -0.091 ms

Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2019-10-03 10:29:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 67.57 Mbit/s

95th percentile per-packet one-way delay: 62.493 ms

Loss rate: 0.68%

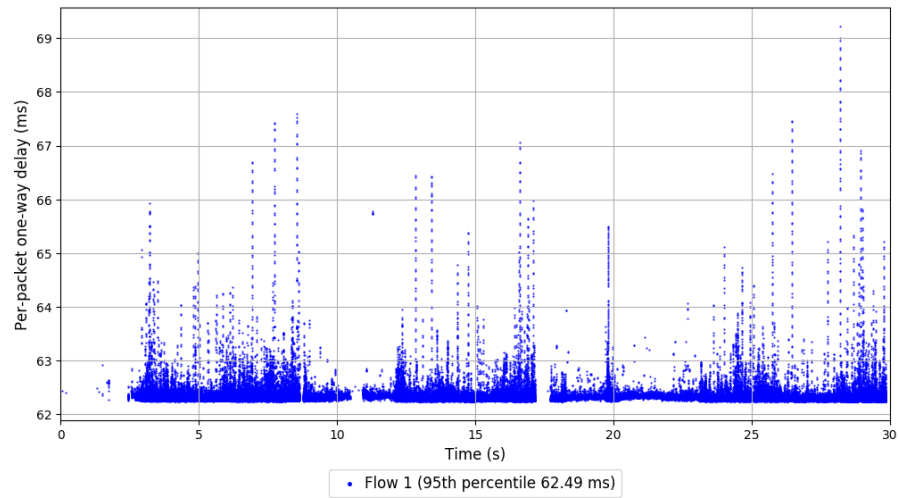
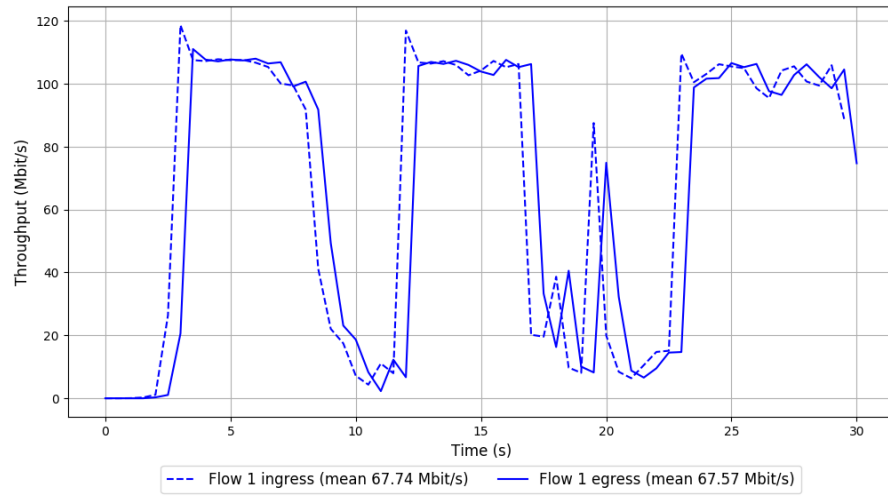
-- Flow 1:

Average throughput: 67.57 Mbit/s

95th percentile per-packet one-way delay: 62.493 ms

Loss rate: 0.68%

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

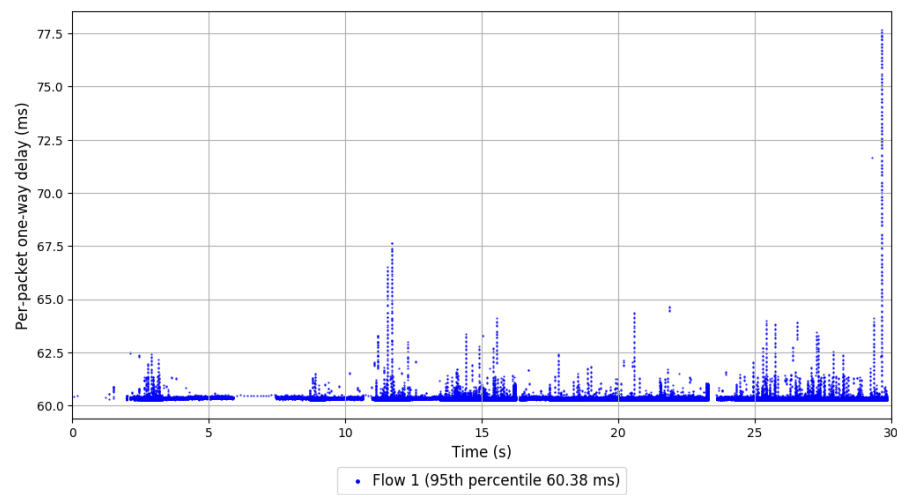
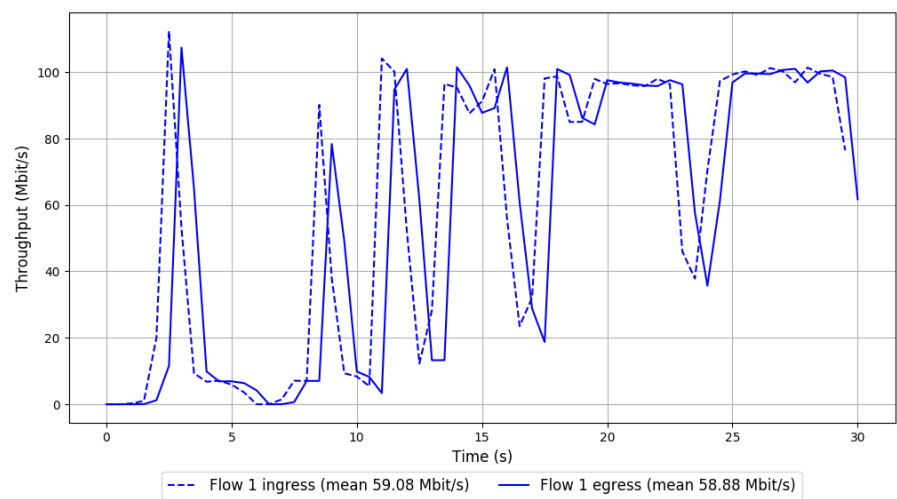


Run 3: Statistics of QUIC Cubic

Start at: 2019-10-03 06:54:50  
End at: 2019-10-03 06:55:20  
Local clock offset: -0.058 ms  
Remote clock offset: -0.218 ms

# Below is generated by plot.py at 2019-10-03 10:29:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 58.88 Mbit/s  
95th percentile per-packet one-way delay: 60.375 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 58.88 Mbit/s  
95th percentile per-packet one-way delay: 60.375 ms  
Loss rate: 0.76%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-10-03 07:29:42

End at: 2019-10-03 07:30:12

Local clock offset: -0.047 ms

Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-10-03 10:29:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 23.97 Mbit/s

95th percentile per-packet one-way delay: 60.048 ms

Loss rate: 0.26%

-- Flow 1:

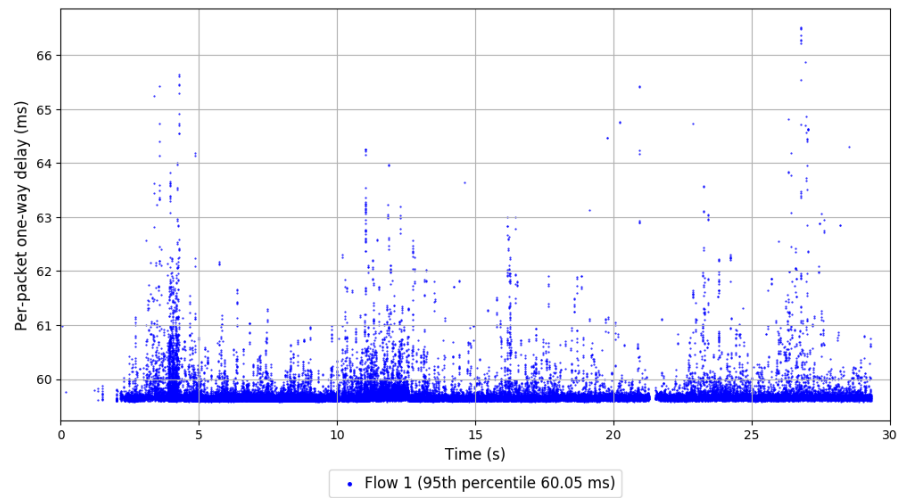
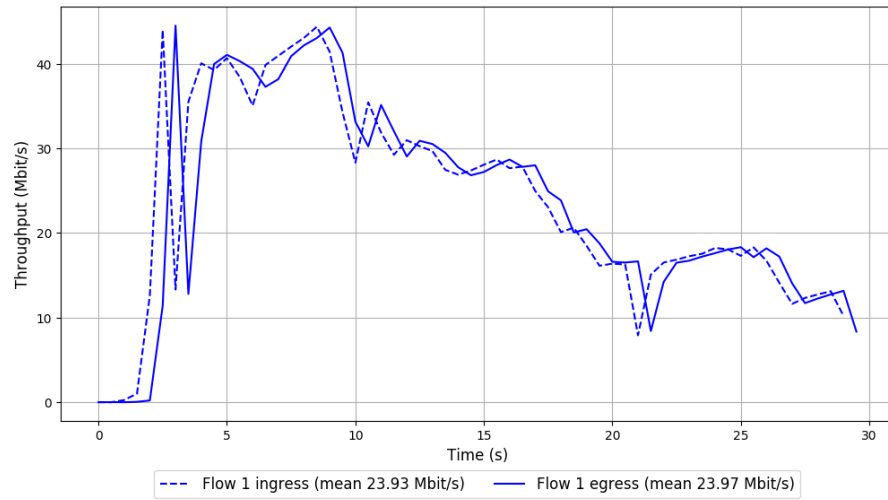
Average throughput: 23.97 Mbit/s

95th percentile per-packet one-way delay: 60.048 ms

Loss rate: 0.26%



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

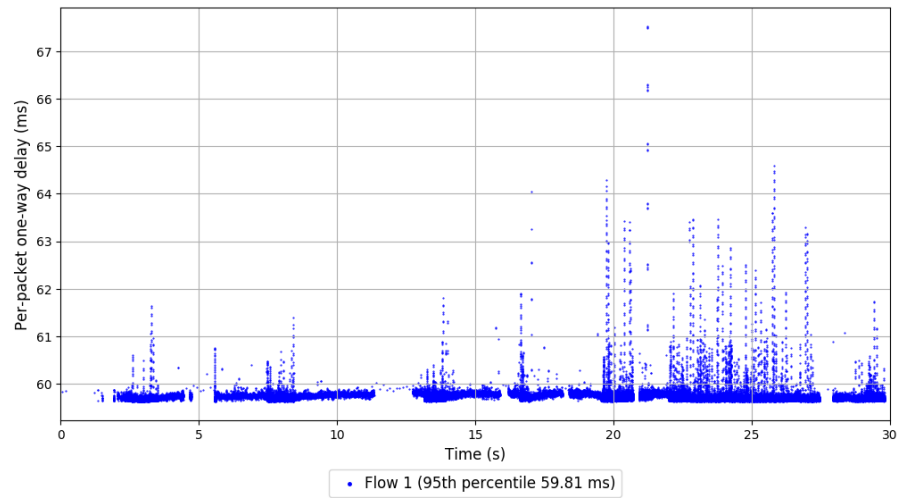
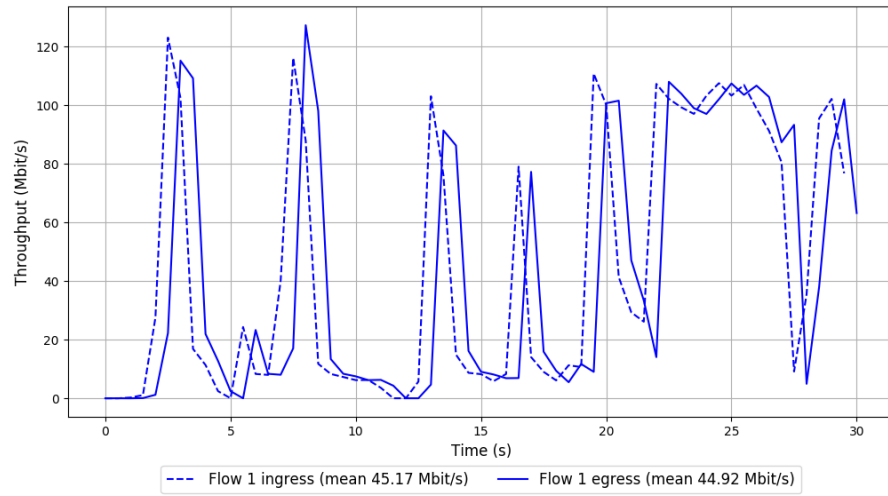


Run 5: Statistics of QUIC Cubic

Start at: 2019-10-03 08:04:29  
End at: 2019-10-03 08:04:59  
Local clock offset: -0.052 ms  
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2019-10-03 10:29:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 44.92 Mbit/s  
95th percentile per-packet one-way delay: 59.814 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 44.92 Mbit/s  
95th percentile per-packet one-way delay: 59.814 ms  
Loss rate: 0.98%

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

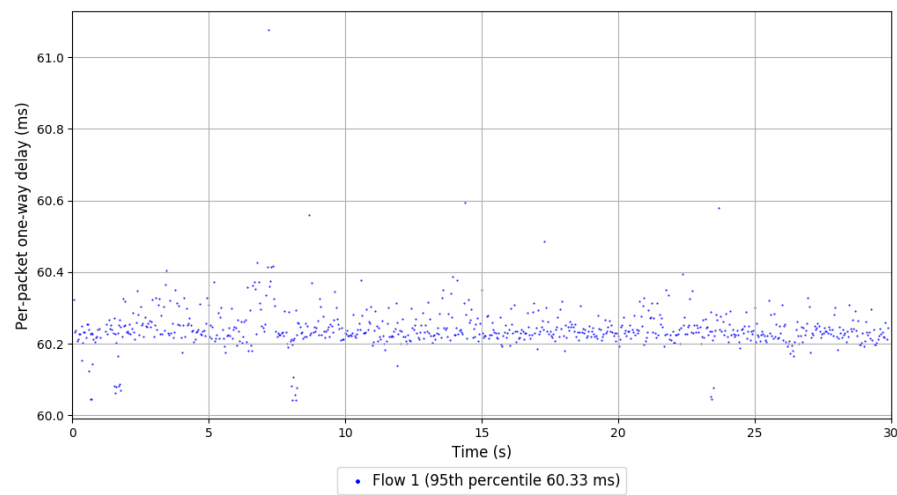
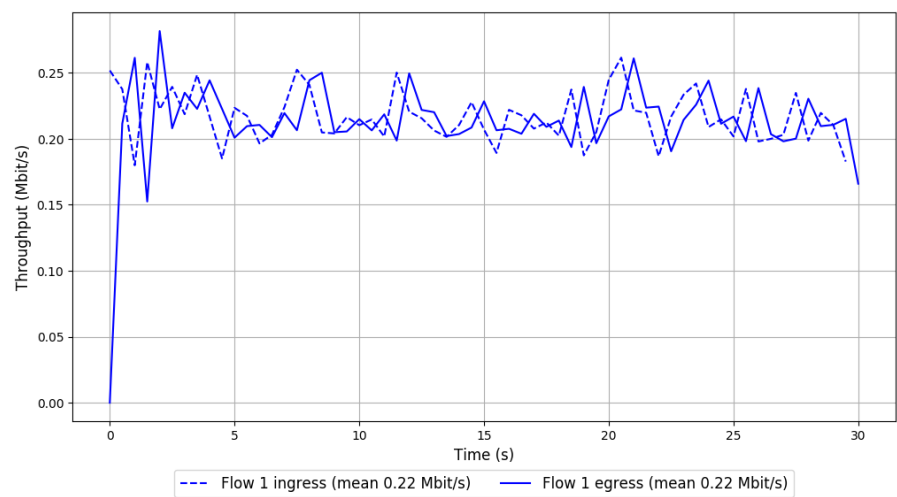


```
Run 1: Statistics of SCReAM

Start at: 2019-10-03 05:32:54
End at: 2019-10-03 05:33:24
Local clock offset: 0.034 ms
Remote clock offset: -0.19 ms

# Below is generated by plot.py at 2019-10-03 10:29:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.328 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.328 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link

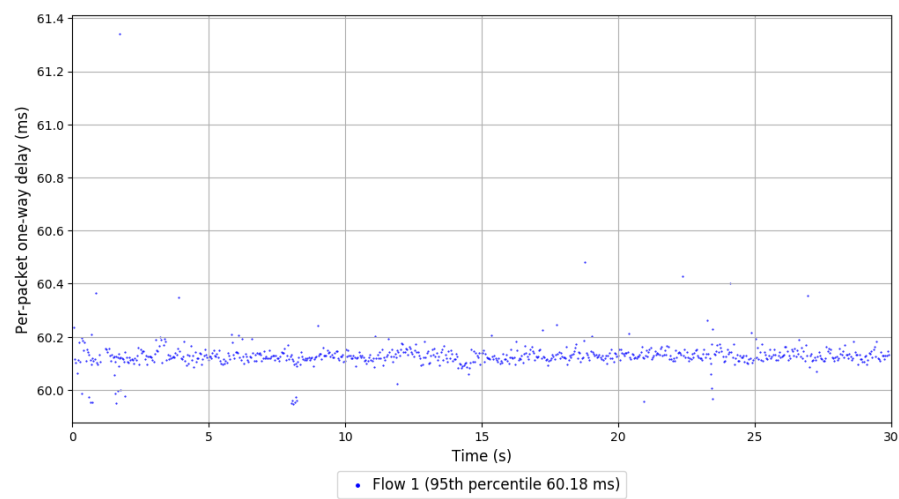
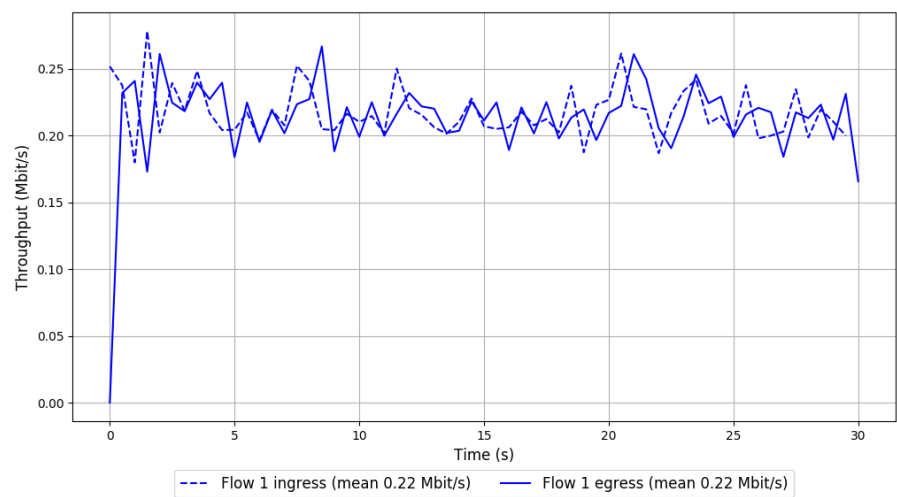


Run 2: Statistics of SCReAM

Start at: 2019-10-03 06:07:12  
End at: 2019-10-03 06:07:42  
Local clock offset: -0.018 ms  
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2019-10-03 10:29:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 60.181 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 60.181 ms  
Loss rate: 0.39%

Run 2: Report of SReAM — Data Link



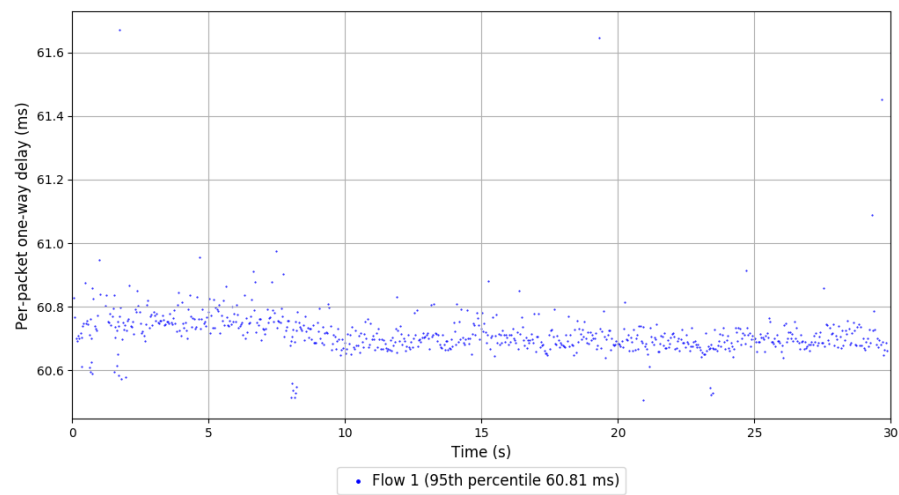
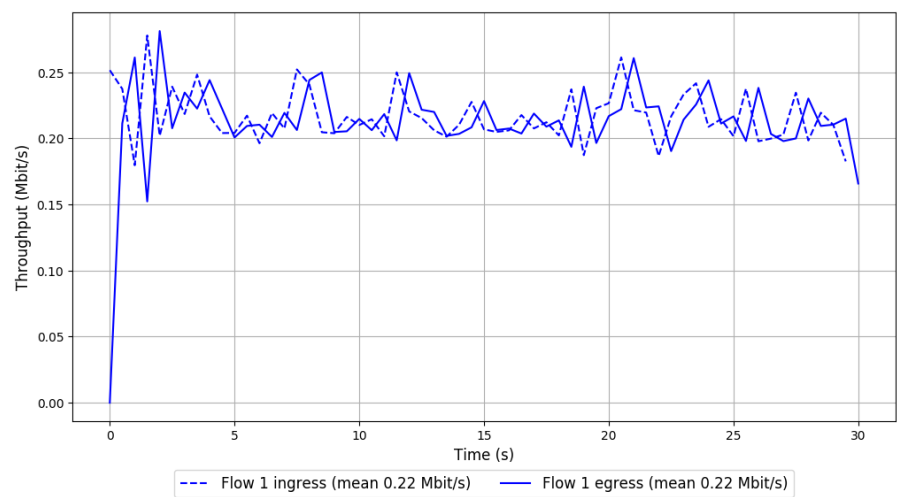
Run 3: Statistics of SCReAM

Start at: 2019-10-03 06:41:46  
End at: 2019-10-03 06:42:17  
Local clock offset: -0.08 ms  
Remote clock offset: -0.676 ms

# Below is generated by plot.py at 2019-10-03 10:29:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 60.808 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 60.808 ms  
Loss rate: 0.38%



Run 3: Report of SReAM — Data Link

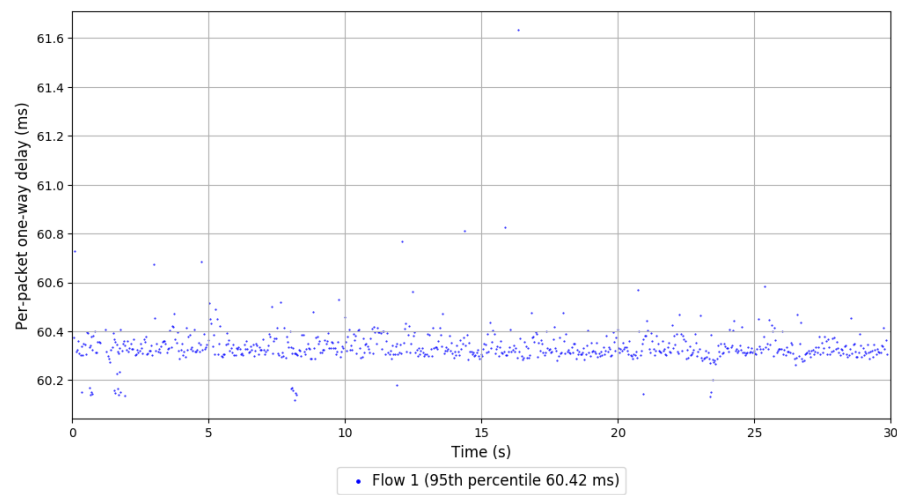
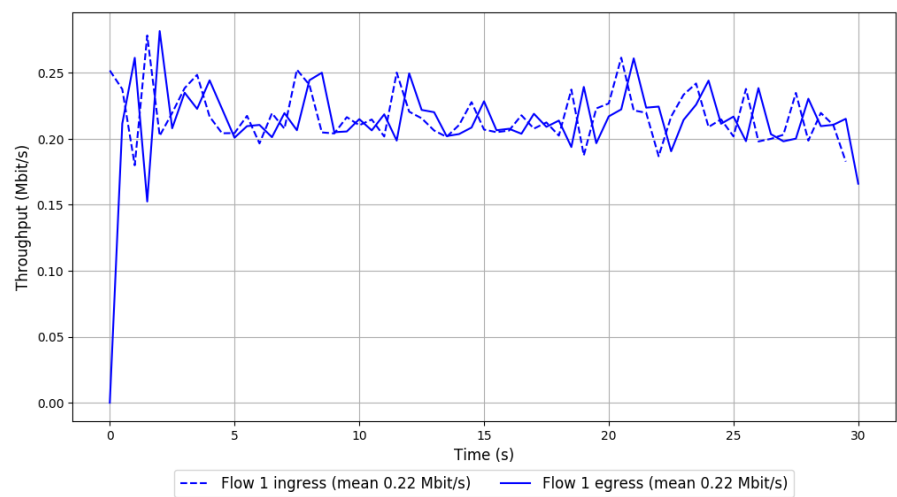


Run 4: Statistics of SCReAM

Start at: 2019-10-03 07:16:46  
End at: 2019-10-03 07:17:16  
Local clock offset: -0.05 ms  
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2019-10-03 10:29:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 60.423 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 60.423 ms  
Loss rate: 0.38%

Run 4: Report of SReAM — Data Link

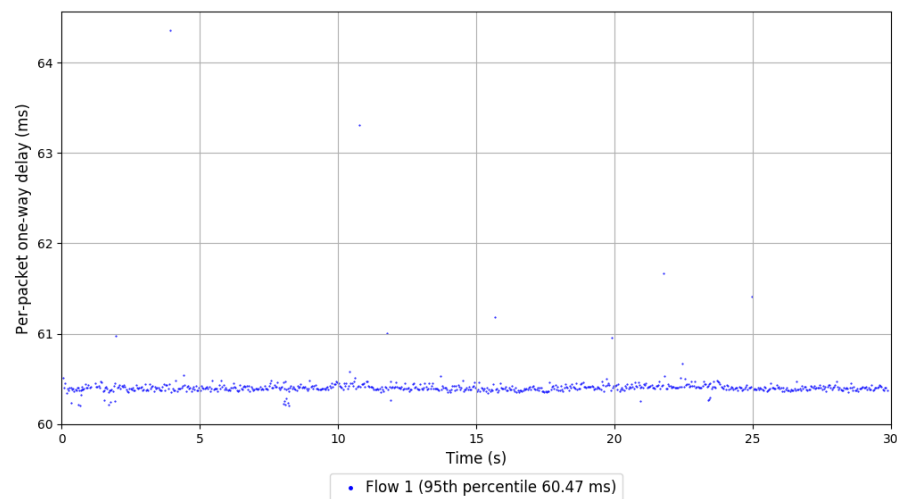
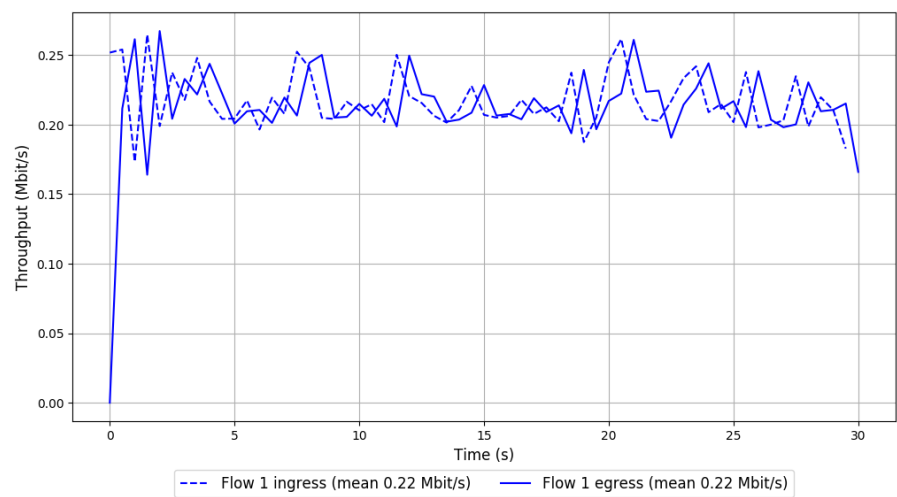


Run 5: Statistics of SCReAM

Start at: 2019-10-03 07:51:28  
End at: 2019-10-03 07:51:58  
Local clock offset: -0.055 ms  
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2019-10-03 10:29:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 60.466 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 60.466 ms  
Loss rate: 0.38%

Run 5: Report of SReAM — Data Link

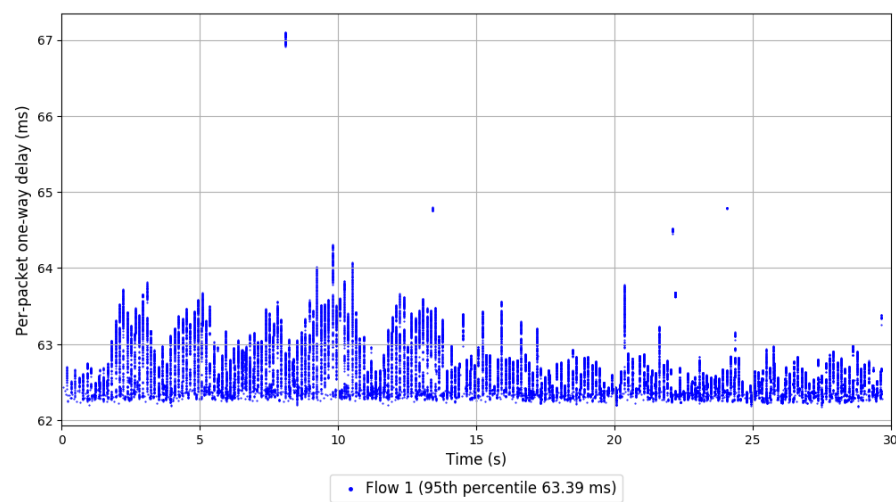
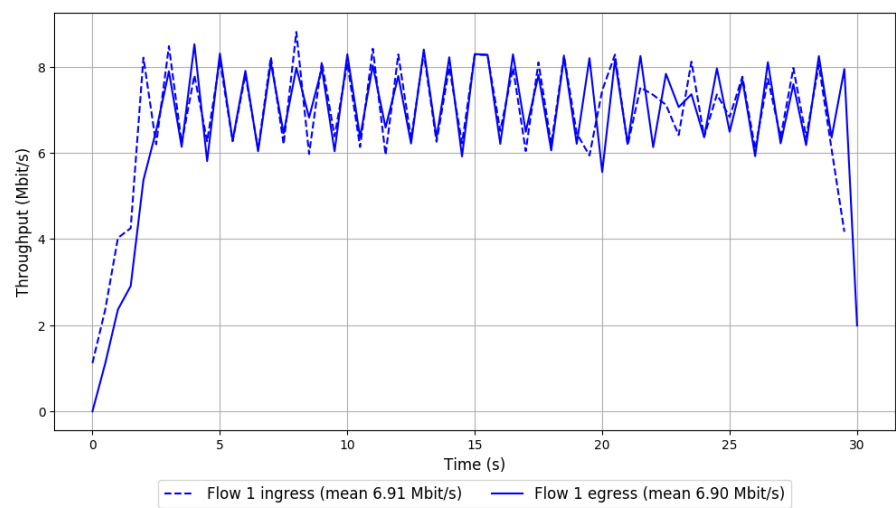


Run 1: Statistics of Sprout

Start at: 2019-10-03 06:06:03  
End at: 2019-10-03 06:06:33  
Local clock offset: -0.011 ms  
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2019-10-03 10:29:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 6.90 Mbit/s  
95th percentile per-packet one-way delay: 63.388 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 6.90 Mbit/s  
95th percentile per-packet one-way delay: 63.388 ms  
Loss rate: 0.53%

Run 1: Report of Sprout — Data Link



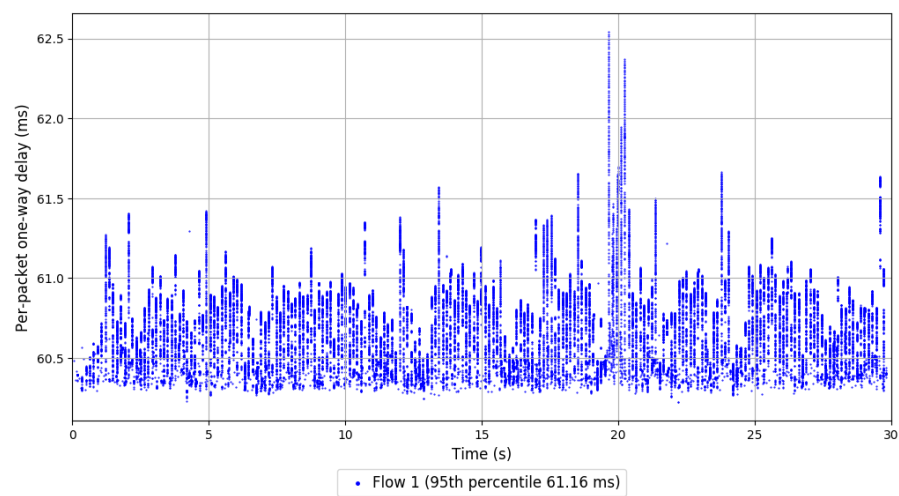
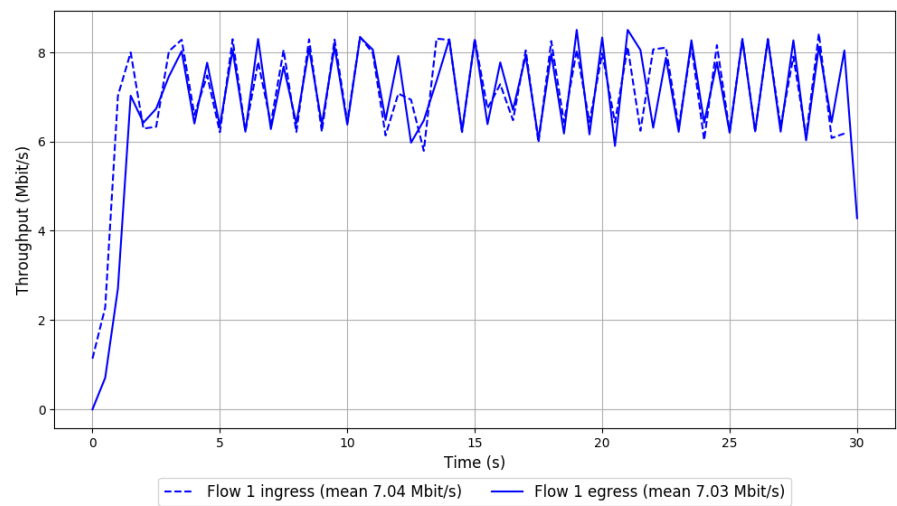
Run 2: Statistics of Sprout

Start at: 2019-10-03 06:40:38  
End at: 2019-10-03 06:41:08  
Local clock offset: -0.062 ms  
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2019-10-03 10:29:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.03 Mbit/s  
95th percentile per-packet one-way delay: 61.159 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 7.03 Mbit/s  
95th percentile per-packet one-way delay: 61.159 ms  
Loss rate: 0.46%



Run 2: Report of Sprout — Data Link

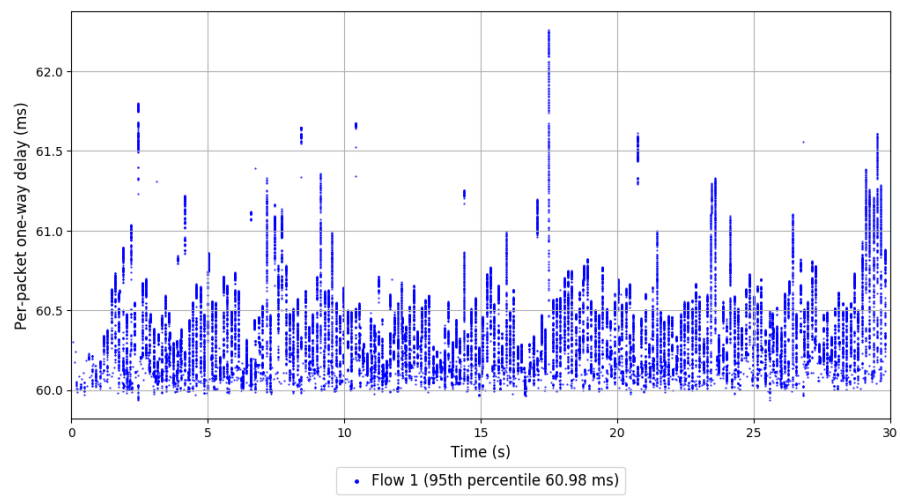
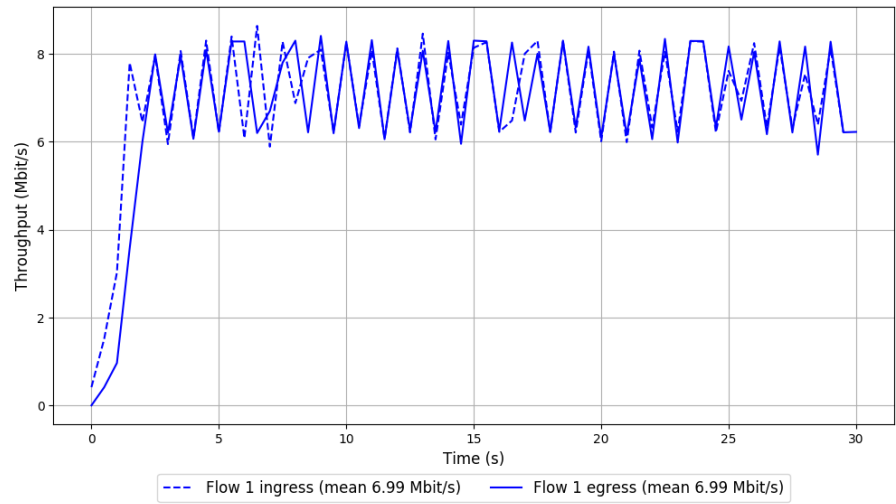


Run 3: Statistics of Sprout

Start at: 2019-10-03 07:15:37  
End at: 2019-10-03 07:16:07  
Local clock offset: -0.028 ms  
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2019-10-03 10:29:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 6.99 Mbit/s  
95th percentile per-packet one-way delay: 60.985 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 6.99 Mbit/s  
95th percentile per-packet one-way delay: 60.985 ms  
Loss rate: 0.49%

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

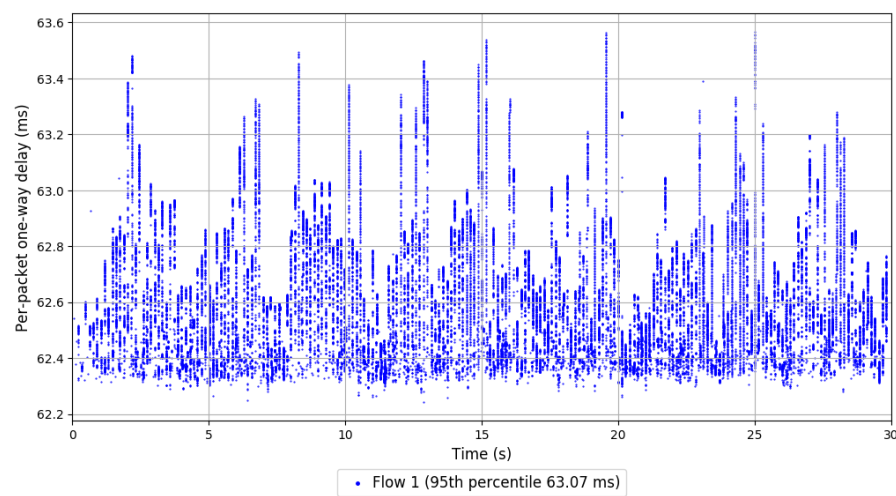
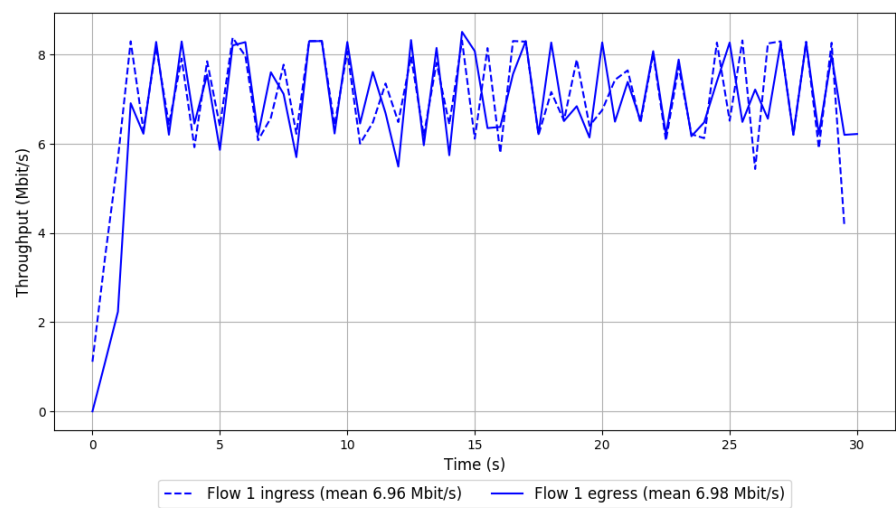


Run 4: Statistics of Sprout

Start at: 2019-10-03 07:50:19  
End at: 2019-10-03 07:50:49  
Local clock offset: -0.077 ms  
Remote clock offset: -0.189 ms

# Below is generated by plot.py at 2019-10-03 10:29:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 6.98 Mbit/s  
95th percentile per-packet one-way delay: 63.070 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 6.98 Mbit/s  
95th percentile per-packet one-way delay: 63.070 ms  
Loss rate: 0.03%

Run 4: Report of Sprout — Data Link

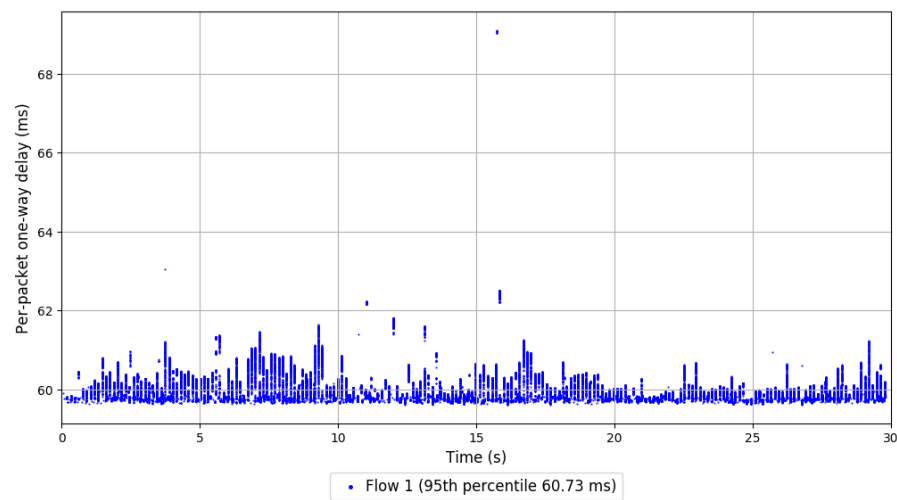
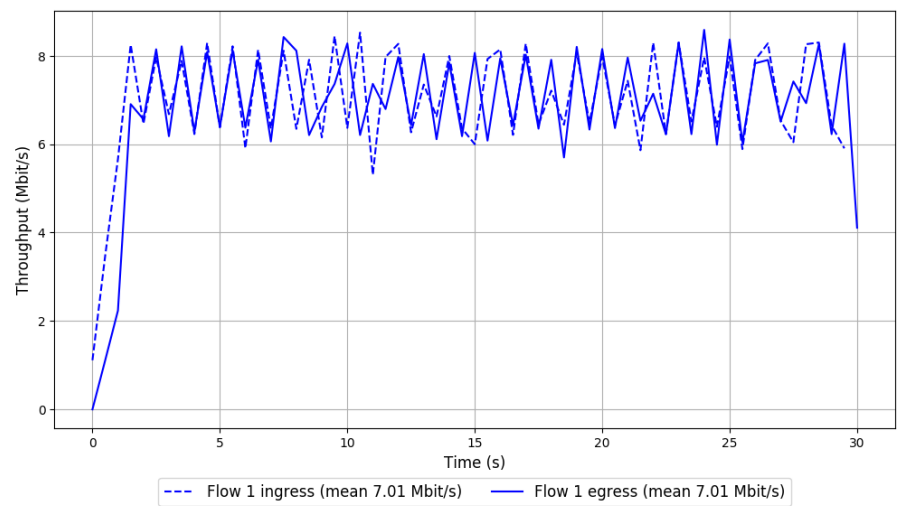


Run 5: Statistics of Sprout

Start at: 2019-10-03 08:24:57  
End at: 2019-10-03 08:25:27  
Local clock offset: -0.017 ms  
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2019-10-03 10:29:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.01 Mbit/s  
95th percentile per-packet one-way delay: 60.725 ms  
Loss rate: 0.48%  
-- Flow 1:  
Average throughput: 7.01 Mbit/s  
95th percentile per-packet one-way delay: 60.725 ms  
Loss rate: 0.48%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-10-03 05:41:42

End at: 2019-10-03 05:42:12

Local clock offset: 0.041 ms

Remote clock offset: -0.173 ms

# Below is generated by plot.py at 2019-10-03 10:30:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 228.58 Mbit/s

95th percentile per-packet one-way delay: 63.021 ms

Loss rate: 0.44%

-- Flow 1:

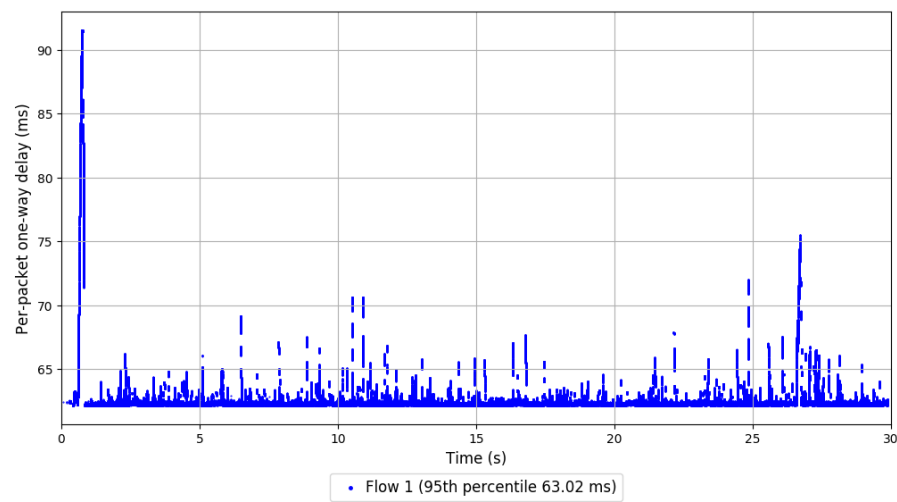
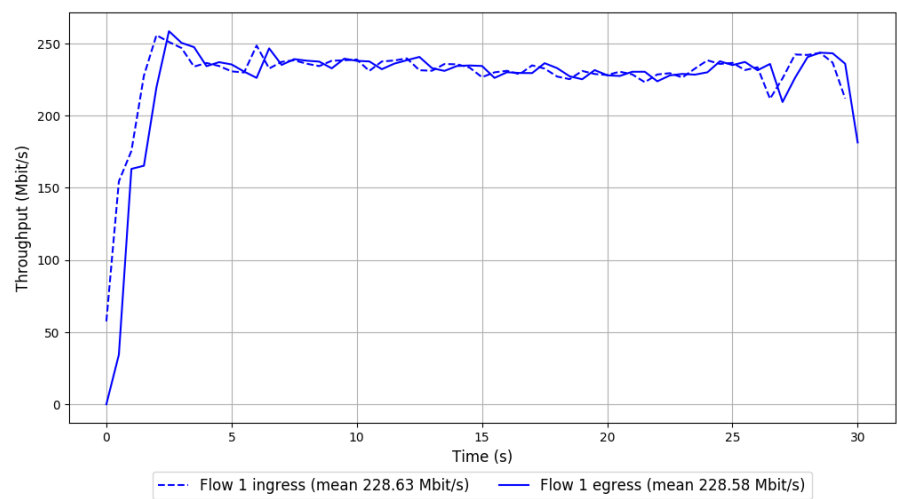
Average throughput: 228.58 Mbit/s

95th percentile per-packet one-way delay: 63.021 ms

Loss rate: 0.44%



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



Run 2: Statistics of TaoVA-100x

Start at: 2019-10-03 06:16:06

End at: 2019-10-03 06:16:36

Local clock offset: -0.067 ms

Remote clock offset: 0.024 ms

# Below is generated by plot.py at 2019-10-03 10:30:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 25.48 Mbit/s

95th percentile per-packet one-way delay: 62.592 ms

Loss rate: 0.00%

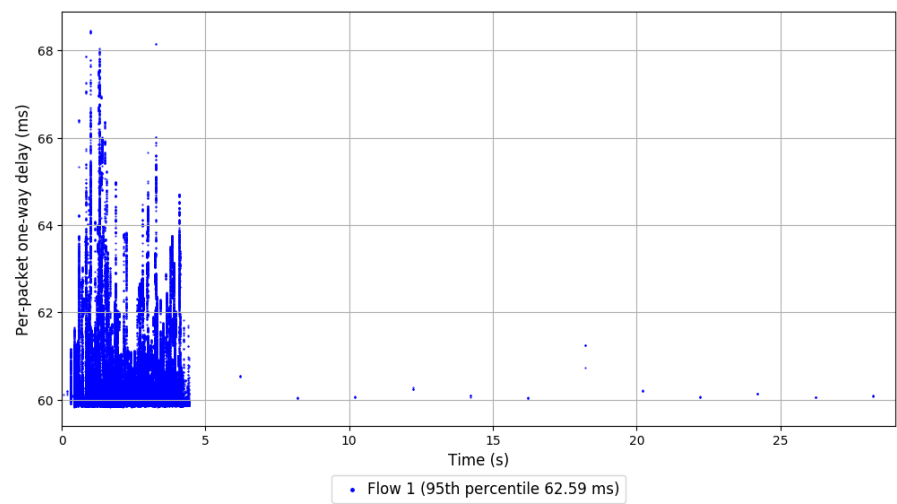
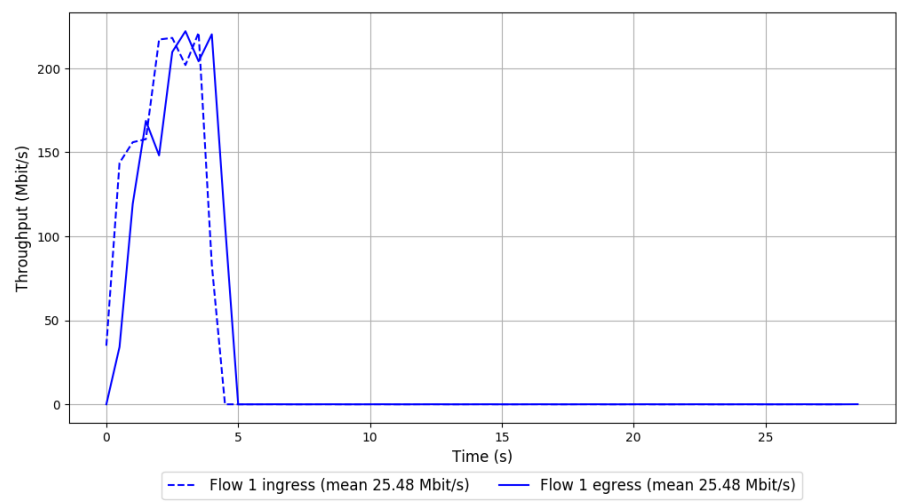
-- Flow 1:

Average throughput: 25.48 Mbit/s

95th percentile per-packet one-way delay: 62.592 ms

Loss rate: 0.00%

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

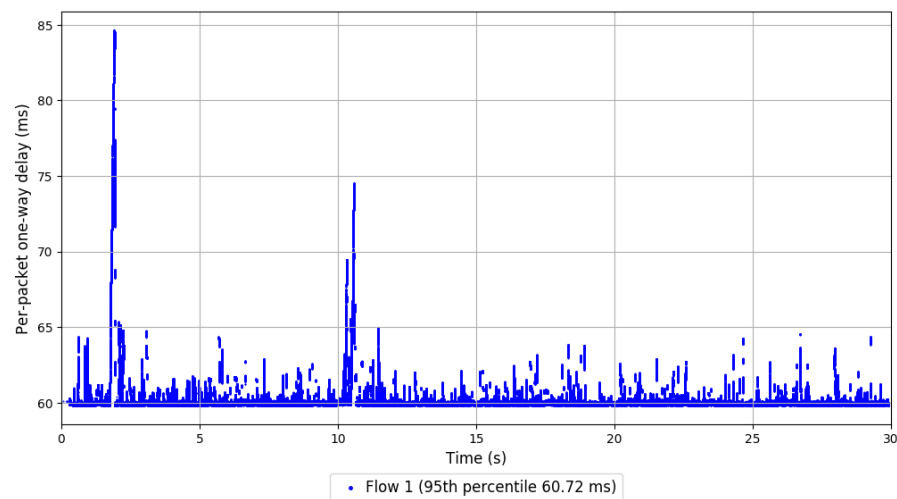
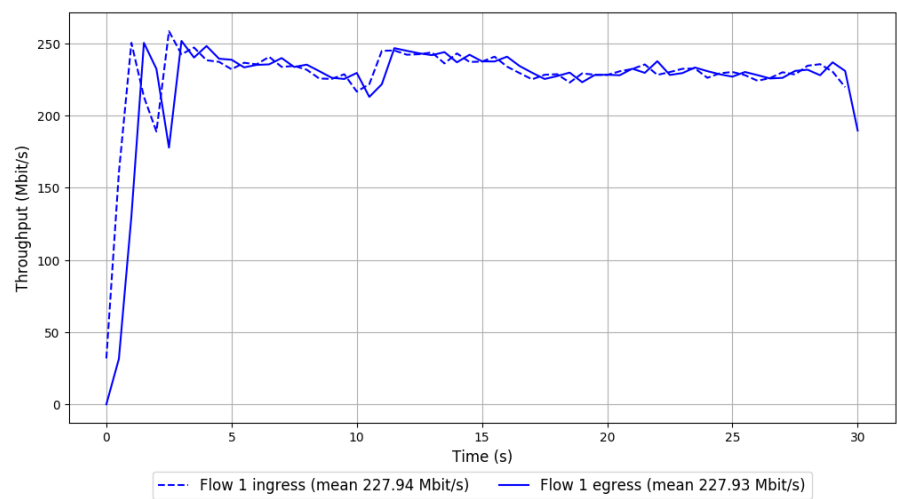


Run 3: Statistics of TaoVA-100x

Start at: 2019-10-03 06:50:45  
End at: 2019-10-03 06:51:15  
Local clock offset: -0.066 ms  
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2019-10-03 10:30:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 227.93 Mbit/s  
95th percentile per-packet one-way delay: 60.719 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 227.93 Mbit/s  
95th percentile per-packet one-way delay: 60.719 ms  
Loss rate: 0.42%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-10-03 07:25:38

End at: 2019-10-03 07:26:08

Local clock offset: -0.067 ms

Remote clock offset: -0.179 ms

# Below is generated by plot.py at 2019-10-03 10:31:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 235.39 Mbit/s

95th percentile per-packet one-way delay: 65.139 ms

Loss rate: 0.44%

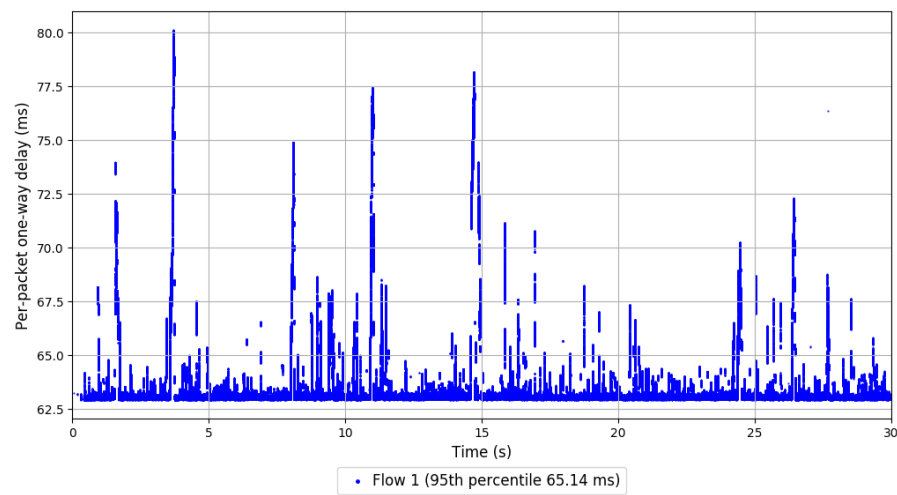
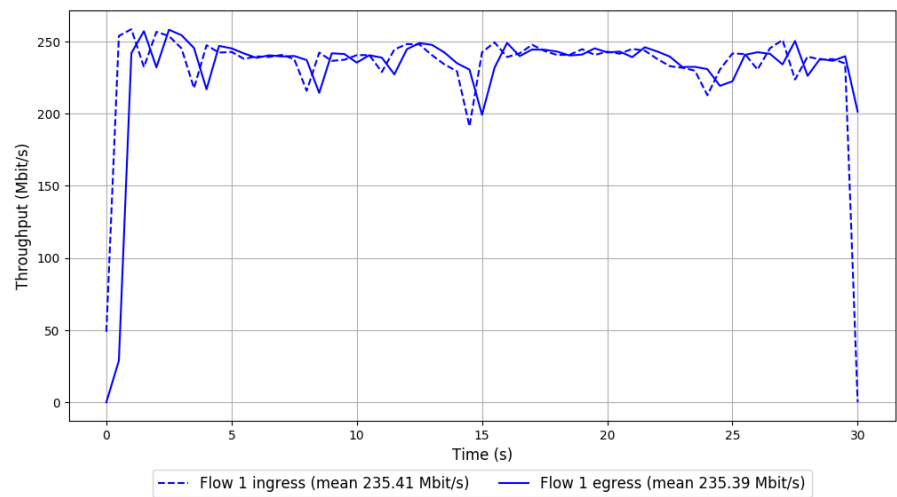
-- Flow 1:

Average throughput: 235.39 Mbit/s

95th percentile per-packet one-way delay: 65.139 ms

Loss rate: 0.44%

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



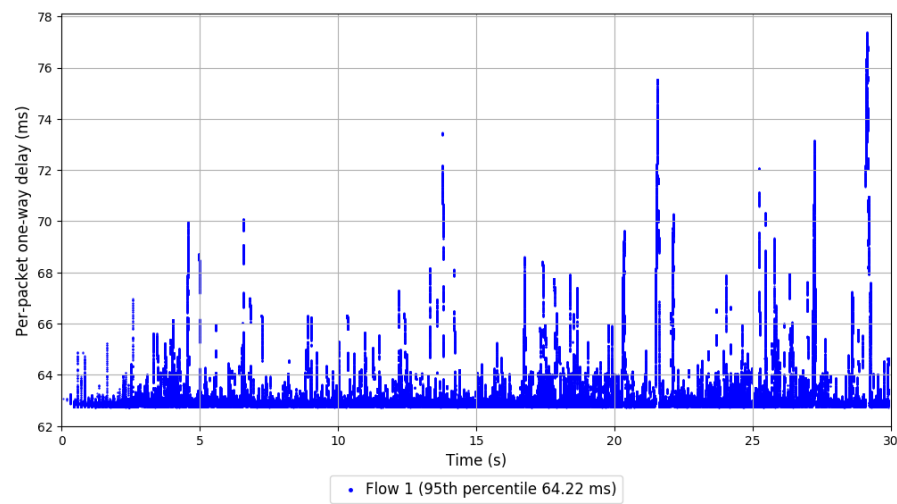
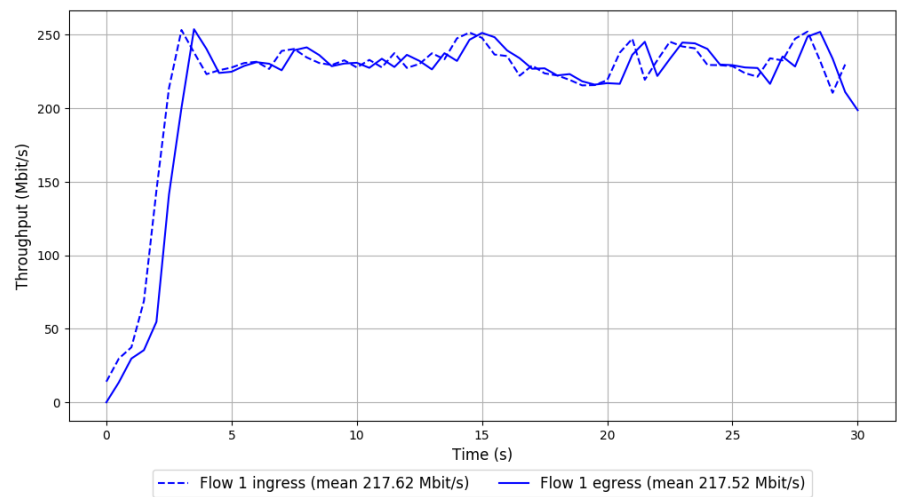
Run 5: Statistics of TaoVA-100x

Start at: 2019-10-03 08:00:25  
End at: 2019-10-03 08:00:55  
Local clock offset: -0.063 ms  
Remote clock offset: -0.587 ms

# Below is generated by plot.py at 2019-10-03 10:31:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 217.52 Mbit/s  
95th percentile per-packet one-way delay: 64.218 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 217.52 Mbit/s  
95th percentile per-packet one-way delay: 64.218 ms  
Loss rate: 0.47%



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

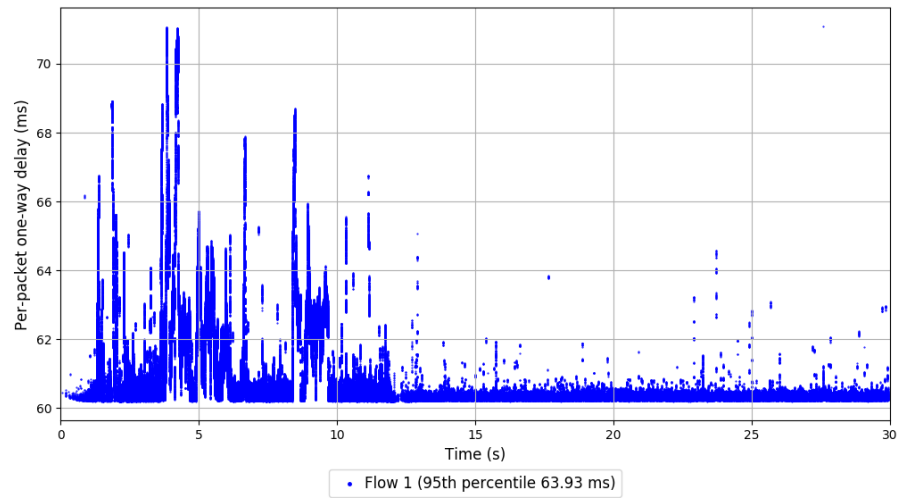
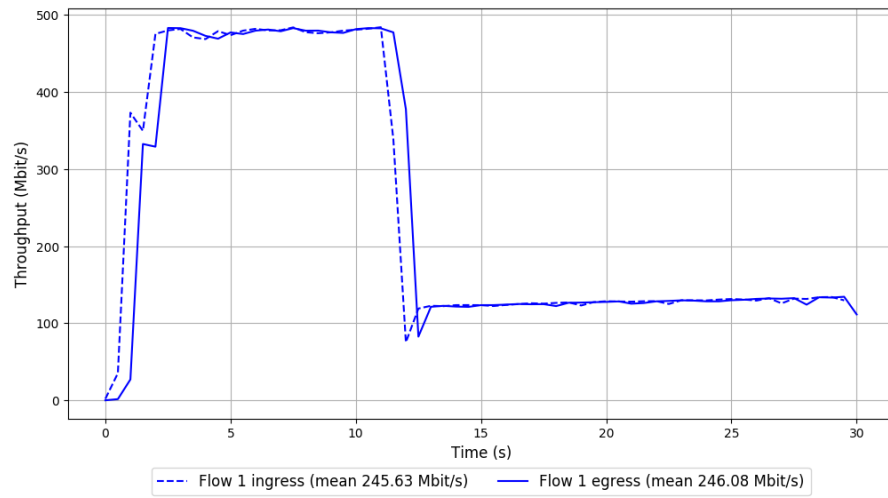


Run 1: Statistics of TCP Vegas

Start at: 2019-10-03 05:48:00  
End at: 2019-10-03 05:48:30  
Local clock offset: 0.063 ms  
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2019-10-03 10:31:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 246.08 Mbit/s  
95th percentile per-packet one-way delay: 63.927 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 246.08 Mbit/s  
95th percentile per-packet one-way delay: 63.927 ms  
Loss rate: 0.22%

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

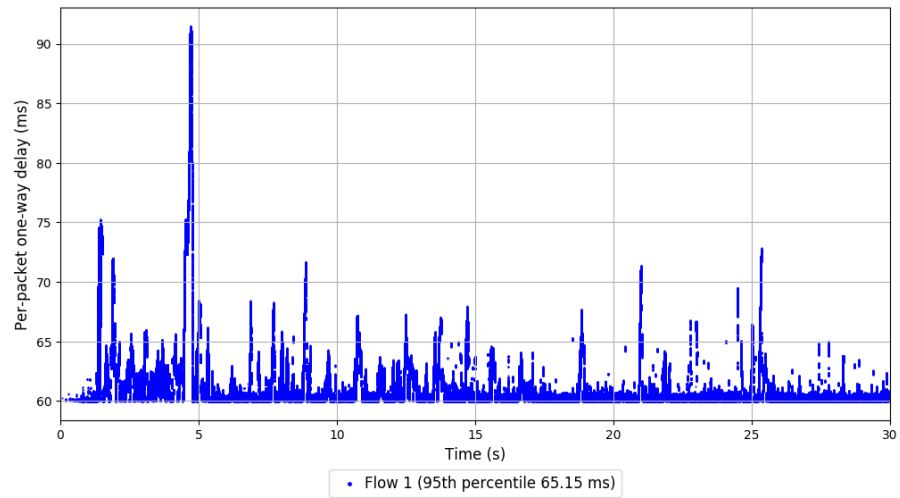
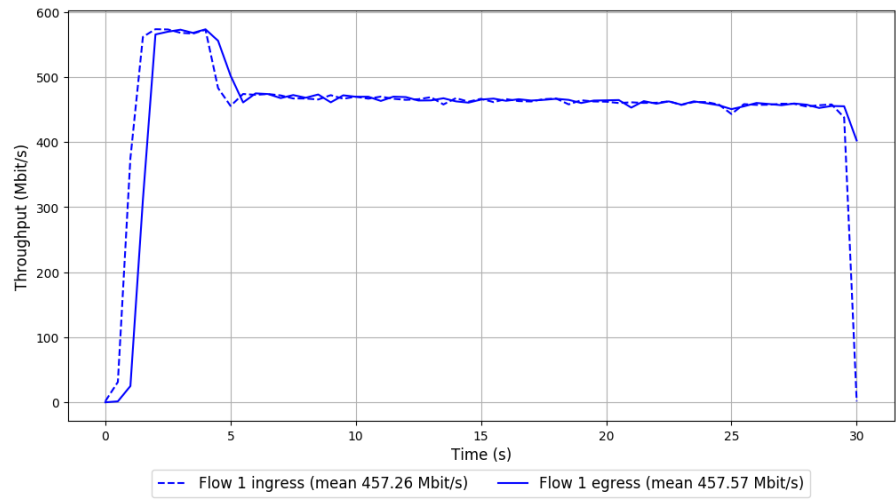


Run 2: Statistics of TCP Vegas

Start at: 2019-10-03 06:22:20  
End at: 2019-10-03 06:22:50  
Local clock offset: -0.077 ms  
Remote clock offset: -0.226 ms

# Below is generated by plot.py at 2019-10-03 10:33:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 457.57 Mbit/s  
95th percentile per-packet one-way delay: 65.151 ms  
Loss rate: 0.35%  
-- Flow 1:  
Average throughput: 457.57 Mbit/s  
95th percentile per-packet one-way delay: 65.151 ms  
Loss rate: 0.35%

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



Run 3: Statistics of TCP Vegas

Start at: 2019-10-03 06:57:24

End at: 2019-10-03 06:57:54

Local clock offset: -0.076 ms

Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2019-10-03 10:35:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 456.73 Mbit/s

95th percentile per-packet one-way delay: 73.837 ms

Loss rate: 0.43%

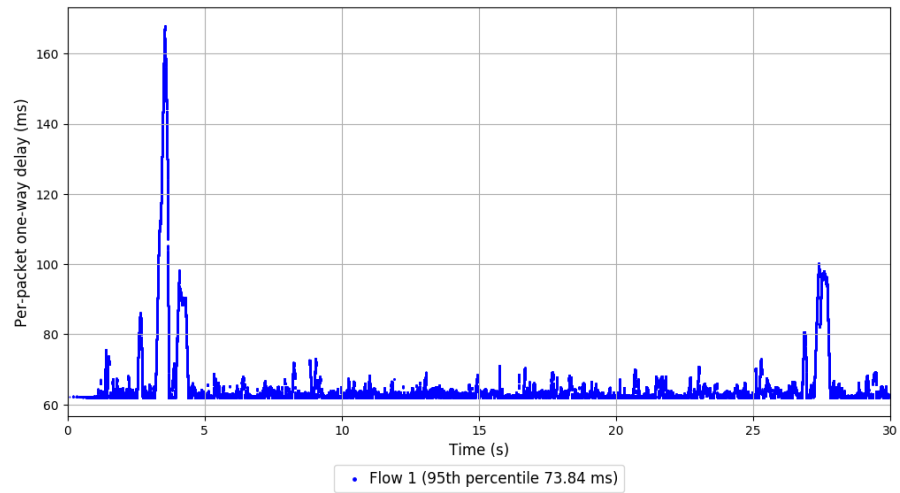
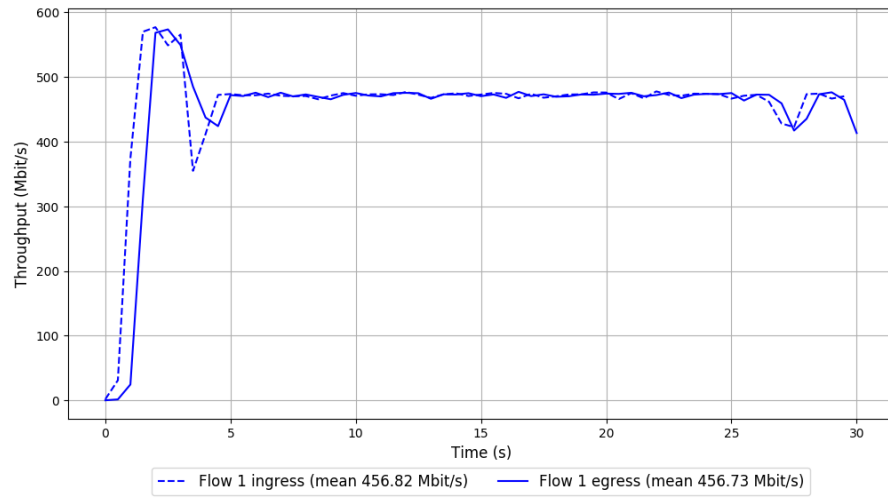
-- Flow 1:

Average throughput: 456.73 Mbit/s

95th percentile per-packet one-way delay: 73.837 ms

Loss rate: 0.43%

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



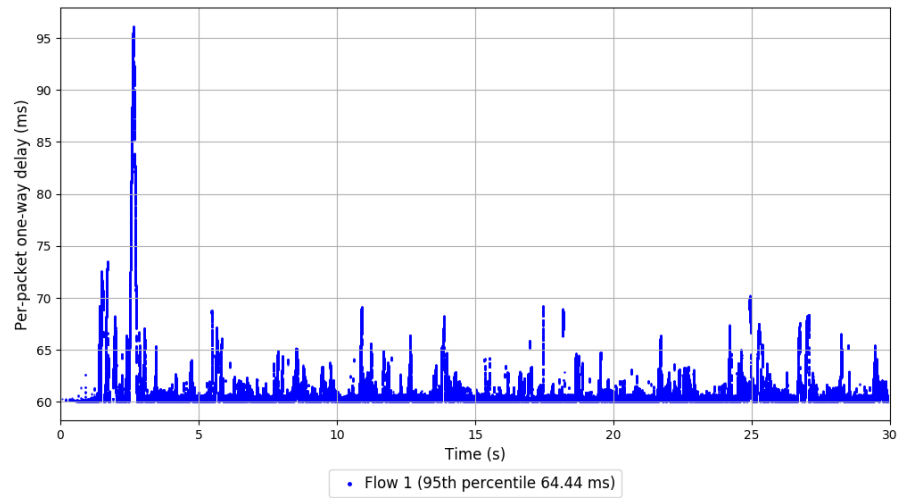
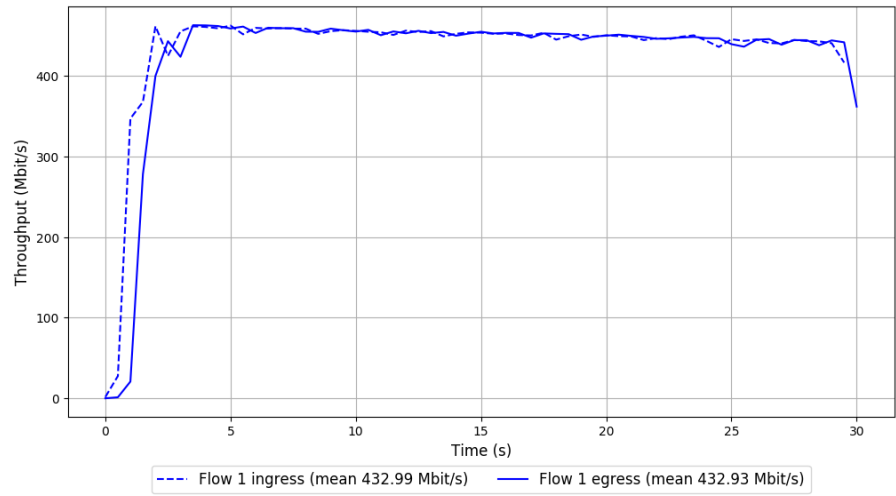
Run 4: Statistics of TCP Vegas

Start at: 2019-10-03 07:32:06  
End at: 2019-10-03 07:32:36  
Local clock offset: -0.024 ms  
Remote clock offset: -0.274 ms

# Below is generated by plot.py at 2019-10-03 10:36:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 432.93 Mbit/s  
95th percentile per-packet one-way delay: 64.442 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 432.93 Mbit/s  
95th percentile per-packet one-way delay: 64.442 ms  
Loss rate: 0.43%



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



Run 5: Statistics of TCP Vegas

Start at: 2019-10-03 08:06:54

End at: 2019-10-03 08:07:24

Local clock offset: -0.046 ms

Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2019-10-03 10:36:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 43.65 Mbit/s

95th percentile per-packet one-way delay: 61.947 ms

Loss rate: 0.17%

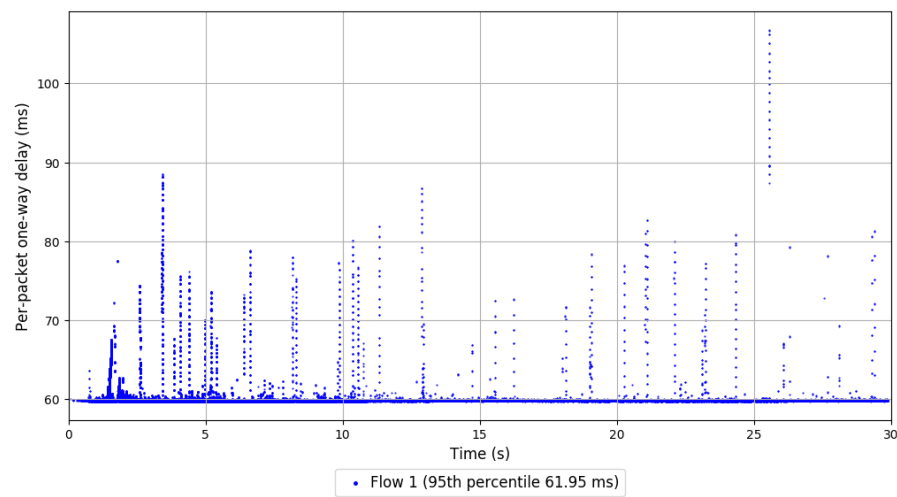
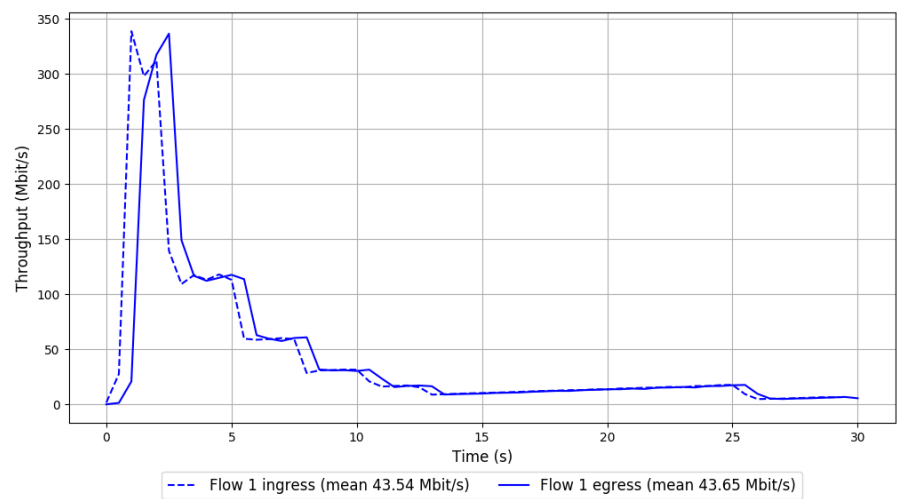
-- Flow 1:

Average throughput: 43.65 Mbit/s

95th percentile per-packet one-way delay: 61.947 ms

Loss rate: 0.17%

Run 5: Report of TCP Vegas — Data Link

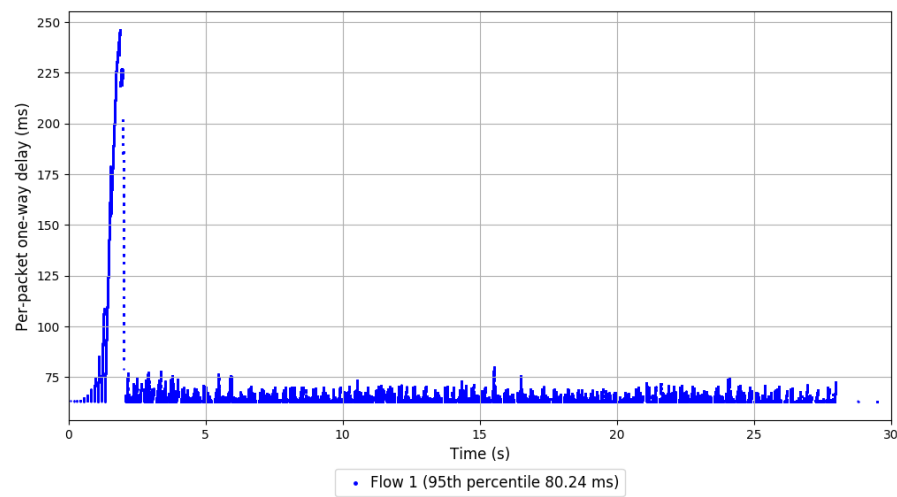
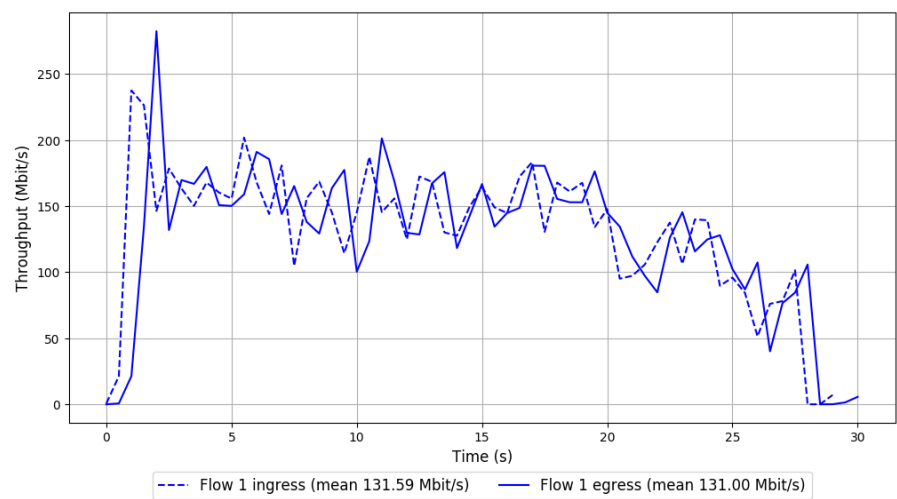


Run 1: Statistics of Verus

Start at: 2019-10-03 05:46:40  
End at: 2019-10-03 05:47:10  
Local clock offset: 0.061 ms  
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2019-10-03 10:36:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 131.00 Mbit/s  
95th percentile per-packet one-way delay: 80.238 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 131.00 Mbit/s  
95th percentile per-packet one-way delay: 80.238 ms  
Loss rate: 0.45%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-10-03 06:21:05

End at: 2019-10-03 06:21:35

Local clock offset: -0.093 ms

Remote clock offset: 0.278 ms

# Below is generated by plot.py at 2019-10-03 10:36:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 67.57 Mbit/s

95th percentile per-packet one-way delay: 76.819 ms

Loss rate: 0.00%

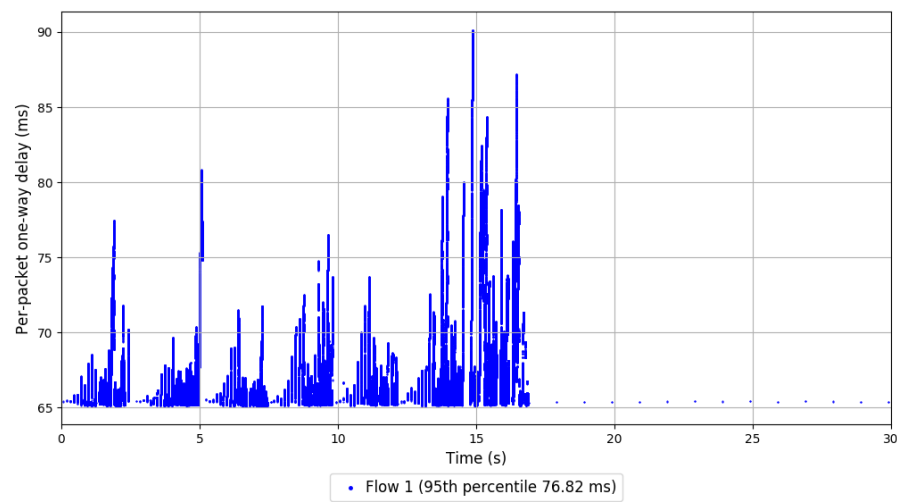
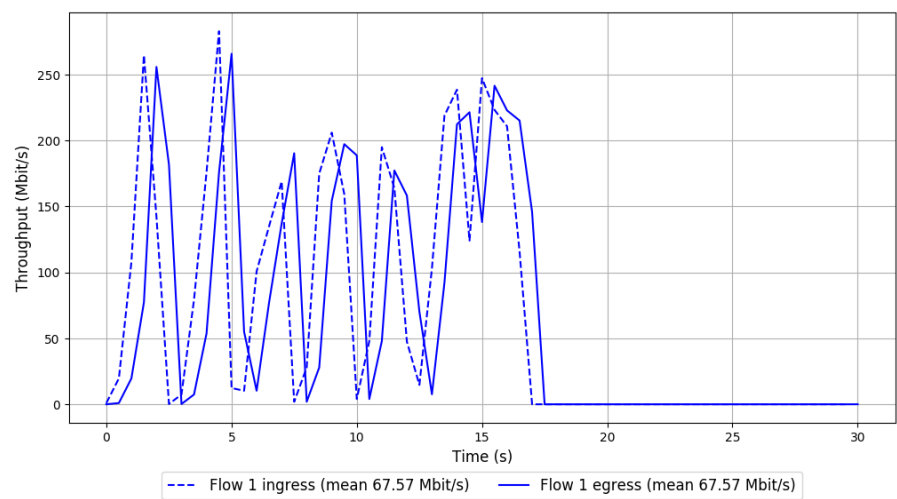
-- Flow 1:

Average throughput: 67.57 Mbit/s

95th percentile per-packet one-way delay: 76.819 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



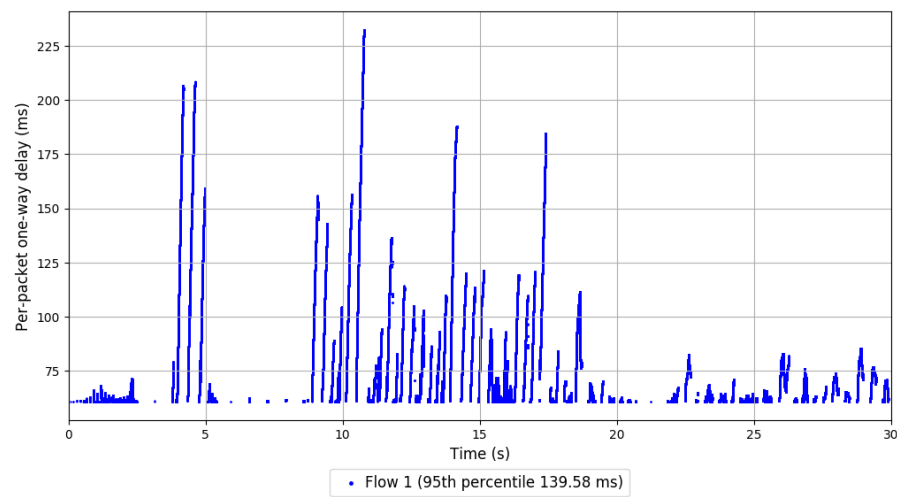
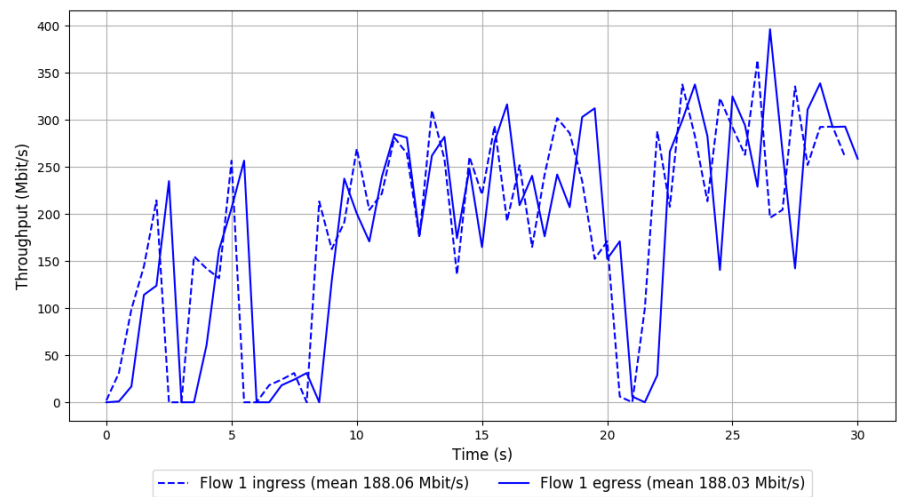
Run 3: Statistics of Verus

Start at: 2019-10-03 06:56:02  
End at: 2019-10-03 06:56:32  
Local clock offset: -0.081 ms  
Remote clock offset: -0.877 ms

# Below is generated by plot.py at 2019-10-03 10:37:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 188.03 Mbit/s  
95th percentile per-packet one-way delay: 139.579 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 188.03 Mbit/s  
95th percentile per-packet one-way delay: 139.579 ms  
Loss rate: 0.02%



Run 3: Report of Verus — Data Link

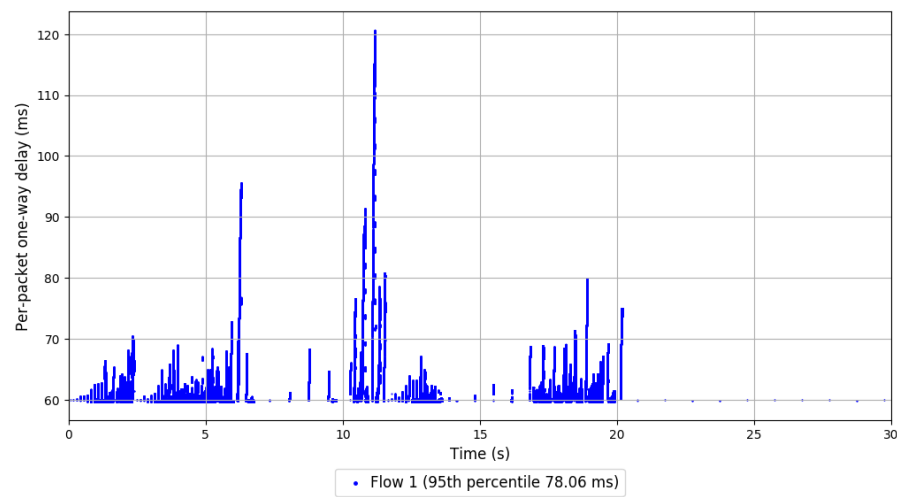
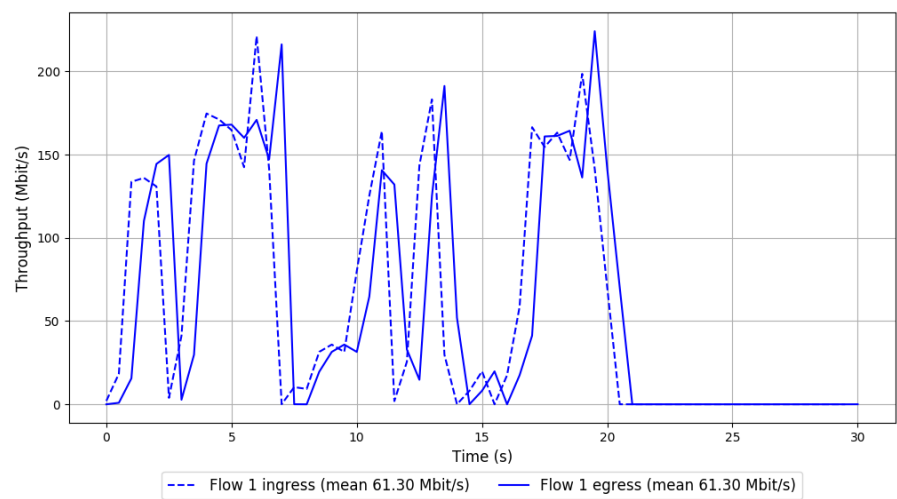


Run 4: Statistics of Verus

Start at: 2019-10-03 07:30:52  
End at: 2019-10-03 07:31:22  
Local clock offset: -0.064 ms  
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-10-03 10:37:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 61.30 Mbit/s  
95th percentile per-packet one-way delay: 78.058 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 61.30 Mbit/s  
95th percentile per-packet one-way delay: 78.058 ms  
Loss rate: 0.00%

Run 4: Report of Verus — Data Link

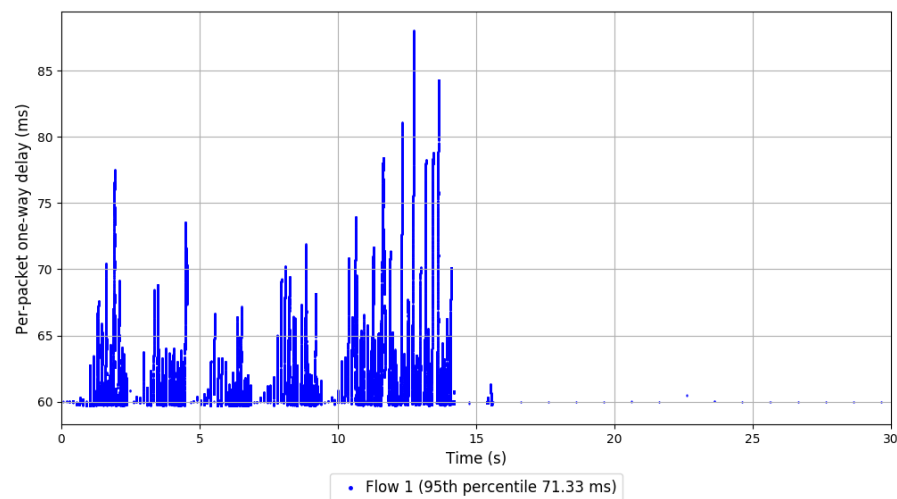
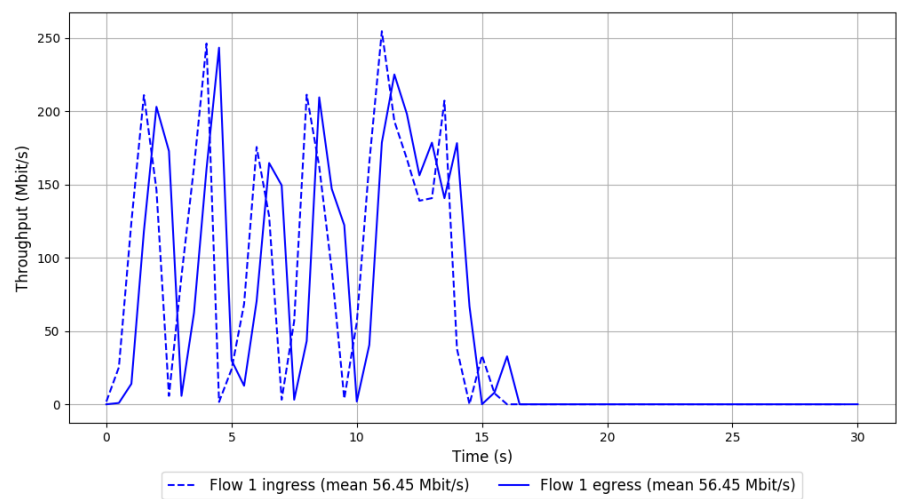


Run 5: Statistics of Verus

Start at: 2019-10-03 08:05:40  
End at: 2019-10-03 08:06:10  
Local clock offset: -0.02 ms  
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2019-10-03 10:37:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 56.45 Mbit/s  
95th percentile per-packet one-way delay: 71.327 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 56.45 Mbit/s  
95th percentile per-packet one-way delay: 71.327 ms  
Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-10-03 05:56:50

End at: 2019-10-03 05:57:20

Local clock offset: 0.051 ms

Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2019-10-03 10:38:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 285.58 Mbit/s

95th percentile per-packet one-way delay: 65.049 ms

Loss rate: 0.52%

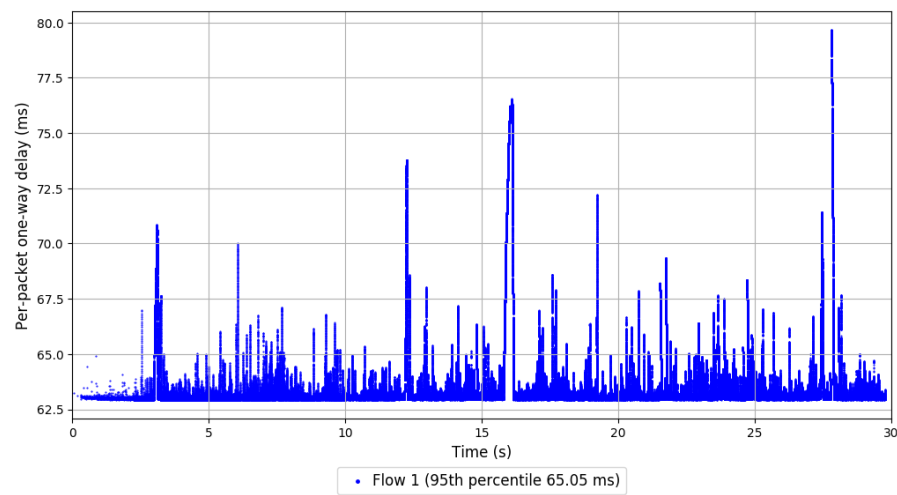
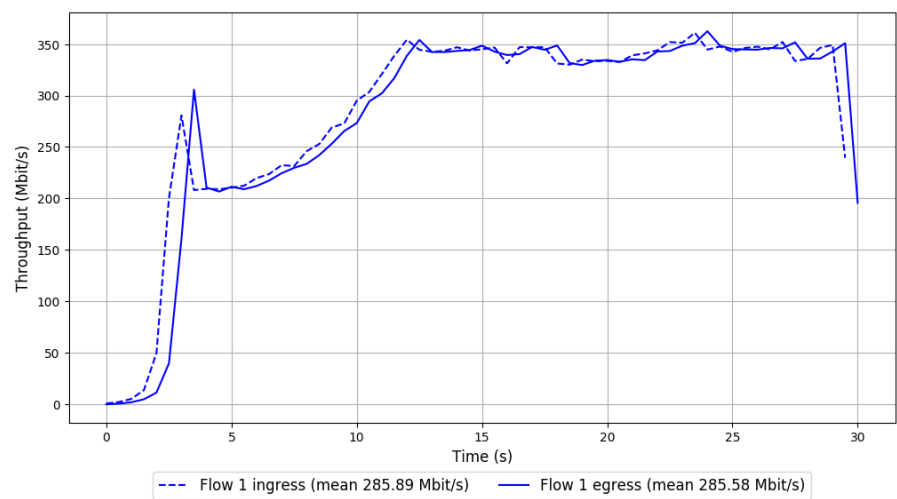
-- Flow 1:

Average throughput: 285.58 Mbit/s

95th percentile per-packet one-way delay: 65.049 ms

Loss rate: 0.52%

Run 1: Report of PCC-Vivace — Data Link



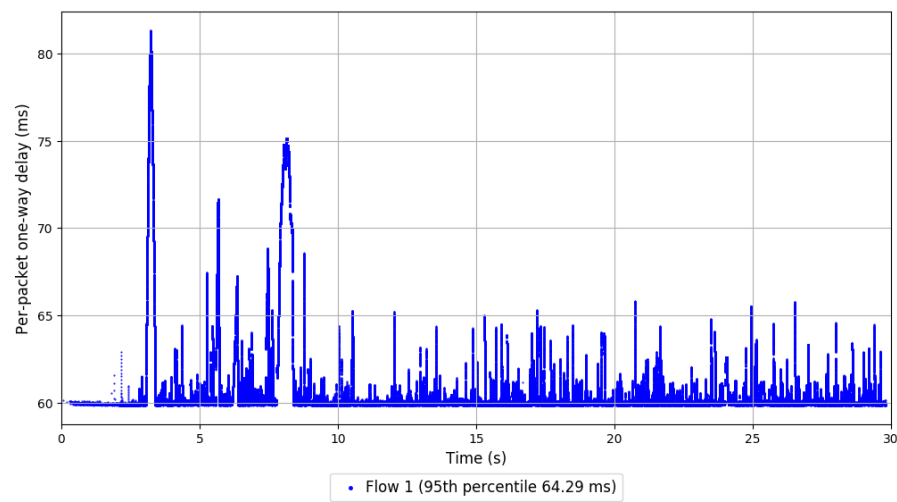
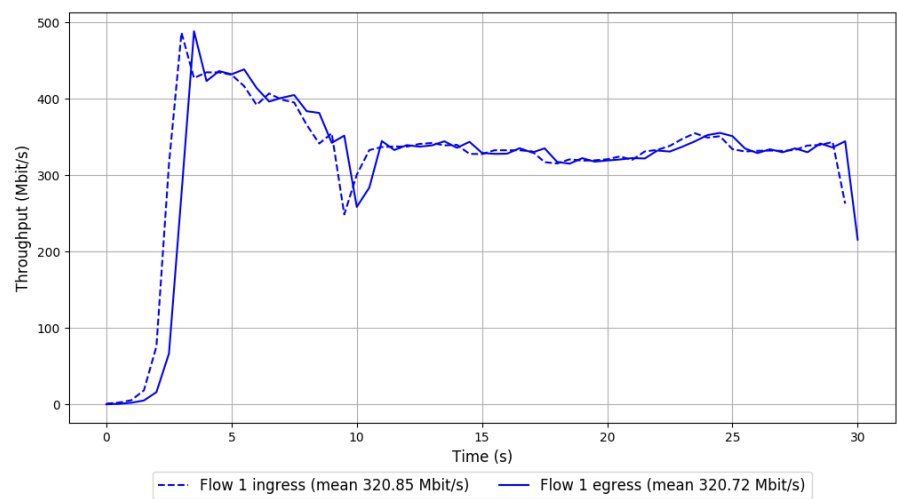
Run 2: Statistics of PCC-Vivace

Start at: 2019-10-03 06:31:17  
End at: 2019-10-03 06:31:47  
Local clock offset: -0.103 ms  
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2019-10-03 10:38:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 320.72 Mbit/s  
95th percentile per-packet one-way delay: 64.289 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 320.72 Mbit/s  
95th percentile per-packet one-way delay: 64.289 ms  
Loss rate: 0.46%



Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-10-03 07:06:14

End at: 2019-10-03 07:06:44

Local clock offset: -0.062 ms

Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2019-10-03 10:38:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 317.44 Mbit/s

95th percentile per-packet one-way delay: 60.686 ms

Loss rate: 0.48%

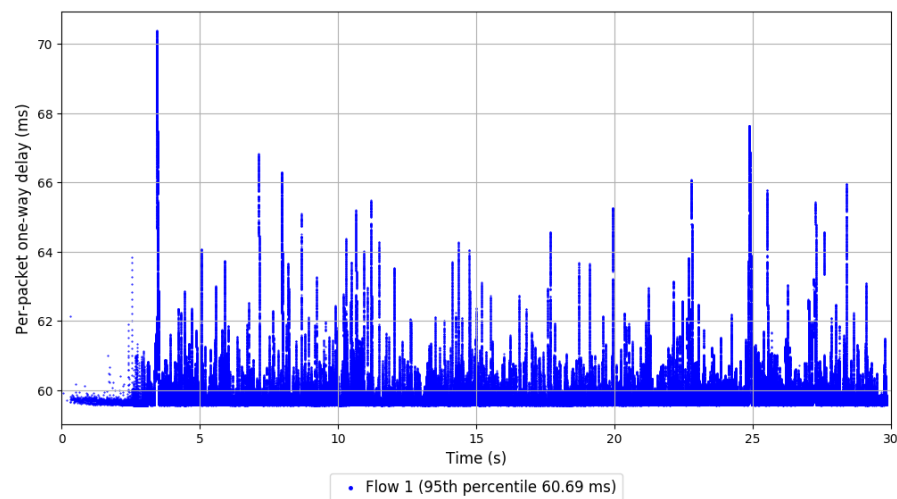
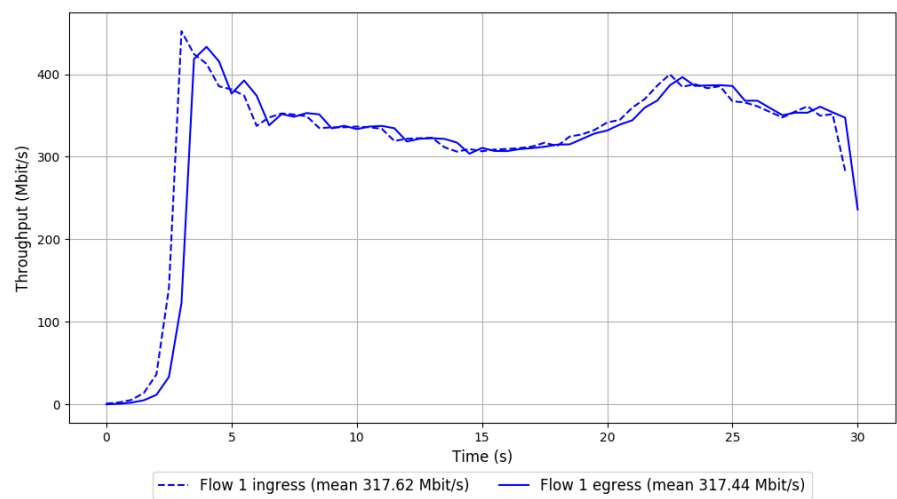
-- Flow 1:

Average throughput: 317.44 Mbit/s

95th percentile per-packet one-way delay: 60.686 ms

Loss rate: 0.48%

Run 3: Report of PCC-Vivace — Data Link

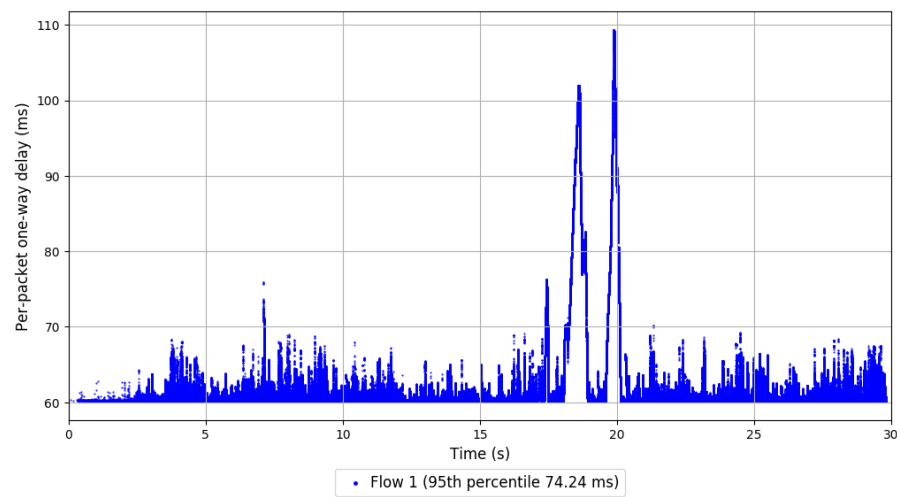
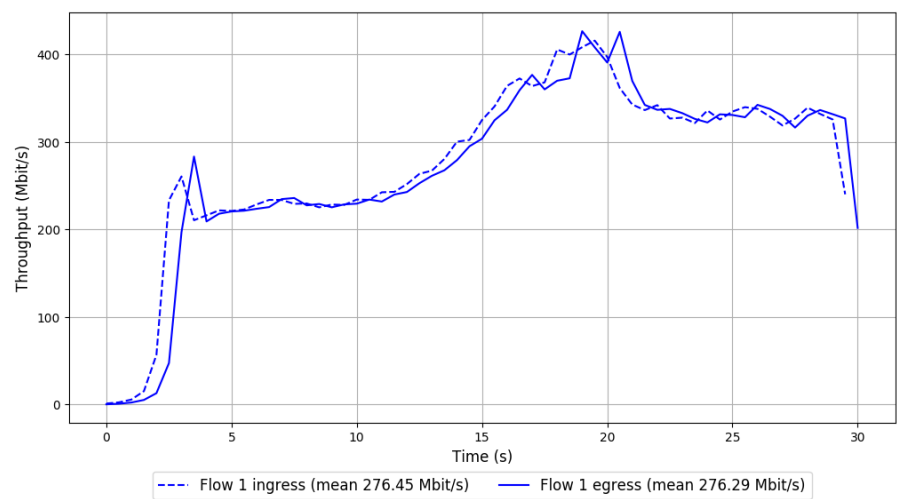


Run 4: Statistics of PCC-Vivace

Start at: 2019-10-03 07:41:01  
End at: 2019-10-03 07:41:31  
Local clock offset: -0.071 ms  
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2019-10-03 10:38:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 276.29 Mbit/s  
95th percentile per-packet one-way delay: 74.243 ms  
Loss rate: 0.48%  
-- Flow 1:  
Average throughput: 276.29 Mbit/s  
95th percentile per-packet one-way delay: 74.243 ms  
Loss rate: 0.48%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-10-03 08:15:32

End at: 2019-10-03 08:16:02

Local clock offset: -0.01 ms

Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-10-03 10:38:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 286.70 Mbit/s

95th percentile per-packet one-way delay: 68.056 ms

Loss rate: 0.52%

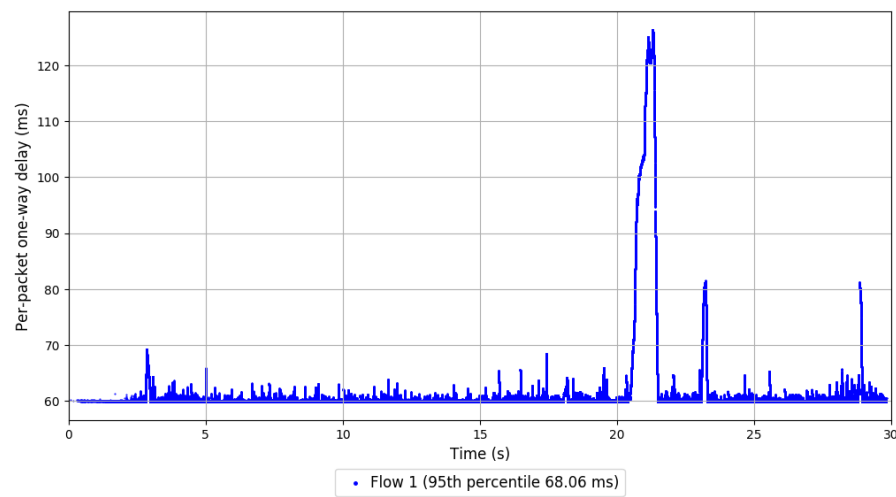
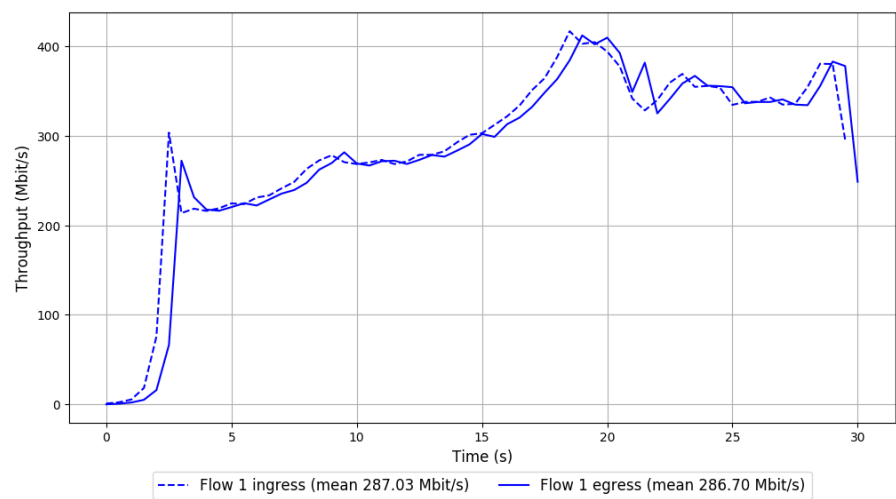
-- Flow 1:

Average throughput: 286.70 Mbit/s

95th percentile per-packet one-way delay: 68.056 ms

Loss rate: 0.52%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-10-03 05:44:24

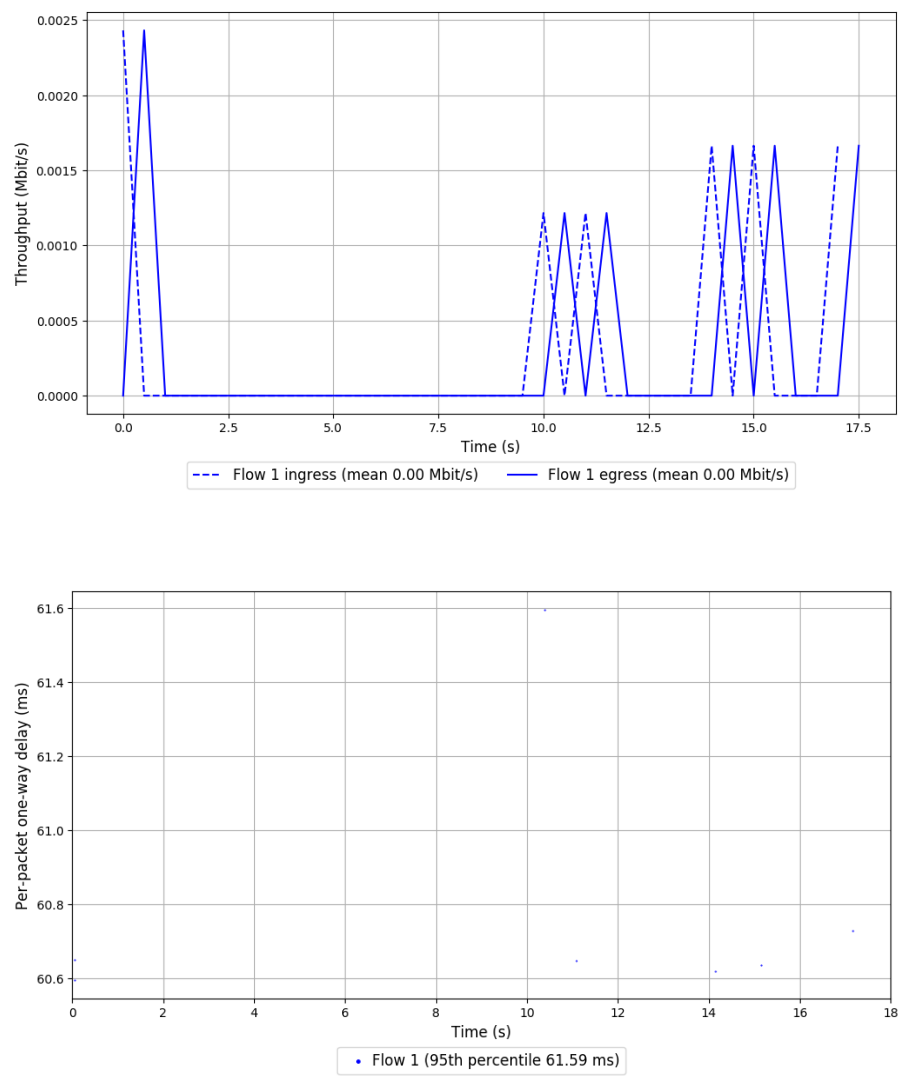
End at: 2019-10-03 05:44:54

Local clock offset: 0.039 ms

Remote clock offset: -0.826 ms



Run 1: Report of WebRTC media — Data Link

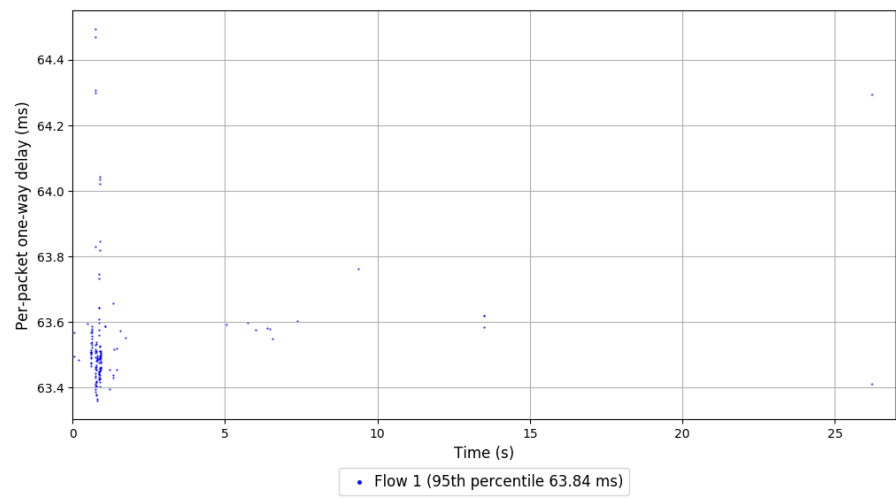
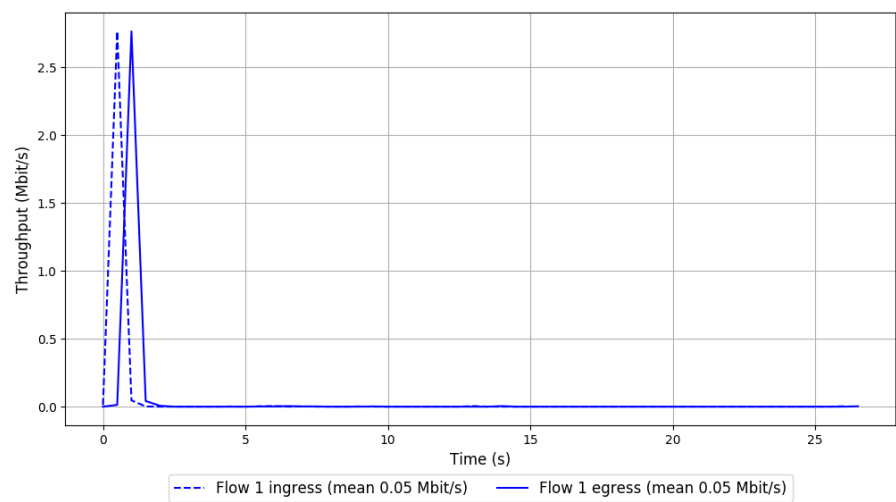


Run 2: Statistics of WebRTC media

Start at: 2019-10-03 06:18:46  
End at: 2019-10-03 06:19:16  
Local clock offset: -0.035 ms  
Remote clock offset: -0.413 ms

# Below is generated by plot.py at 2019-10-03 10:38:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 63.845 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 63.845 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

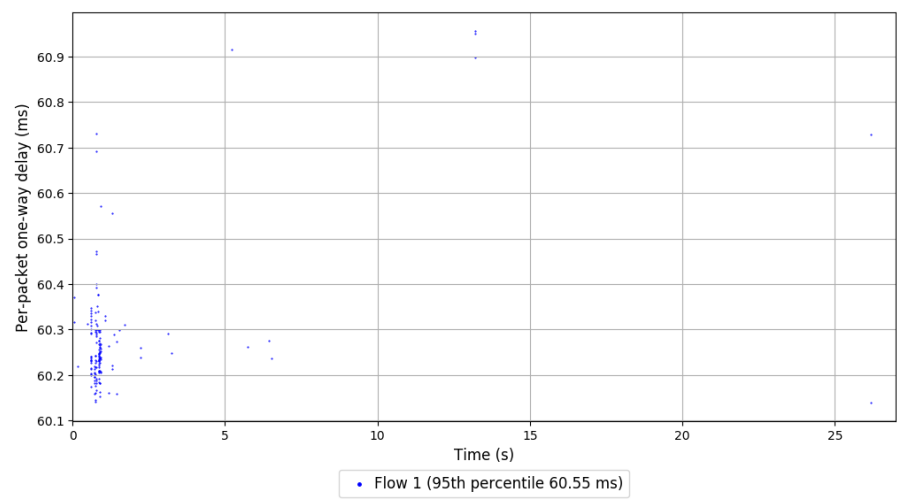
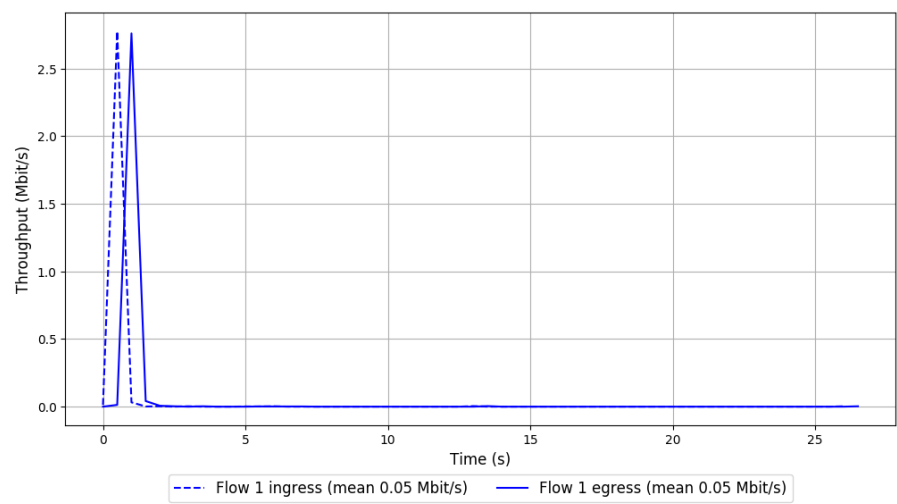


Run 3: Statistics of WebRTC media

Start at: 2019-10-03 06:53:42  
End at: 2019-10-03 06:54:13  
Local clock offset: -0.07 ms  
Remote clock offset: -0.229 ms

# Below is generated by plot.py at 2019-10-03 10:38:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 60.555 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 60.555 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

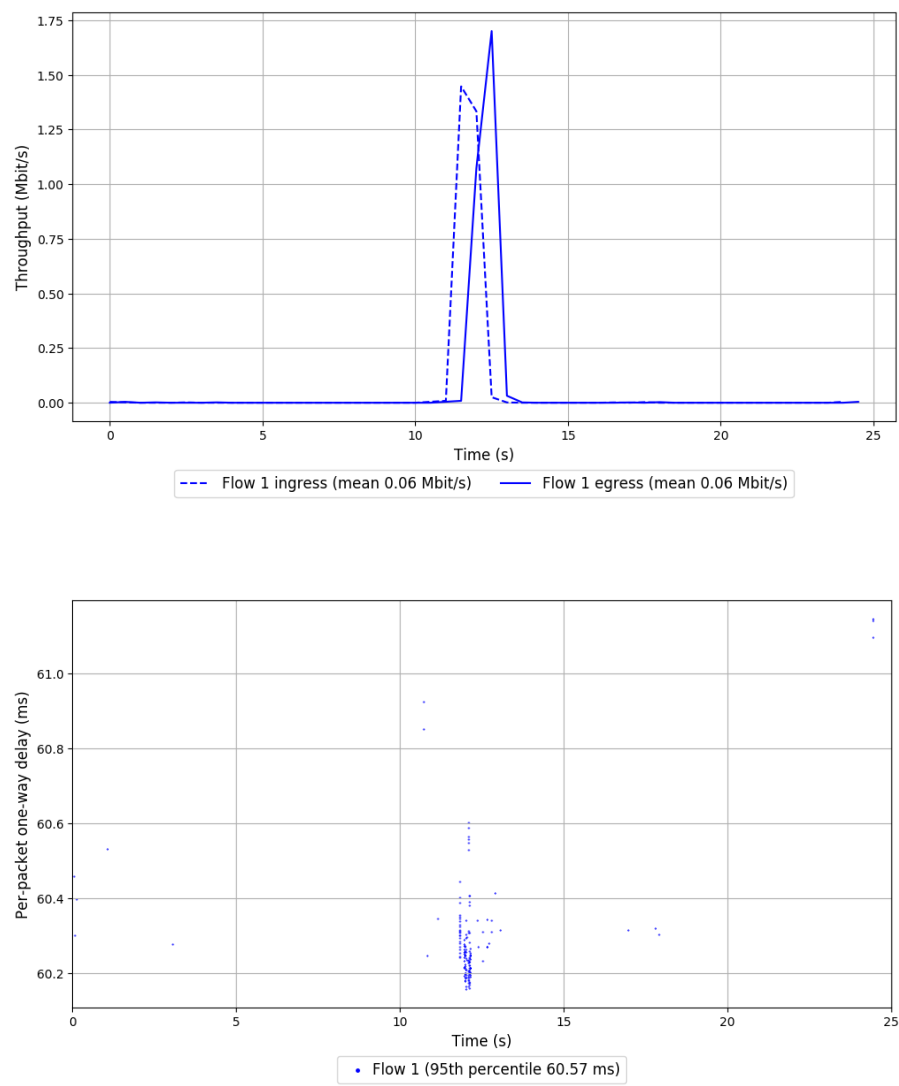


Run 4: Statistics of WebRTC media

Start at: 2019-10-03 07:28:35  
End at: 2019-10-03 07:29:05  
Local clock offset: -0.053 ms  
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2019-10-03 10:38:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 60.566 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 60.566 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-10-03 08:03:21

End at: 2019-10-03 08:03:51

Local clock offset: -0.029 ms

Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2019-10-03 10:38:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 60.653 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 60.653 ms

Loss rate: 0.00%



Run 5: Report of WebRTC media — Data Link

