

## Pantheon Report

Generated at 2019-11-25 02:32:12 (UTC).

Data path: GCE Tokyo on `ens4` (*remote*) → GCE Sydney 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:

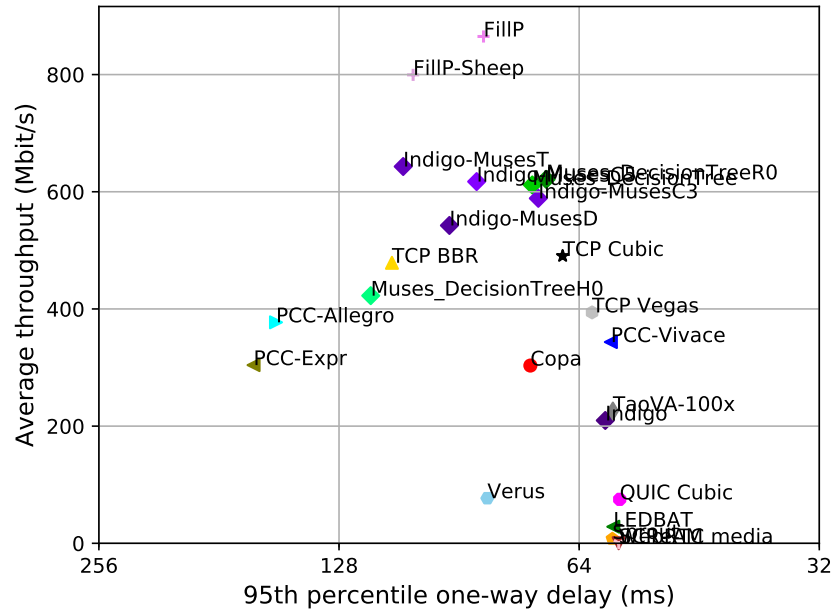
```
Linux 4.15.0-1044-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

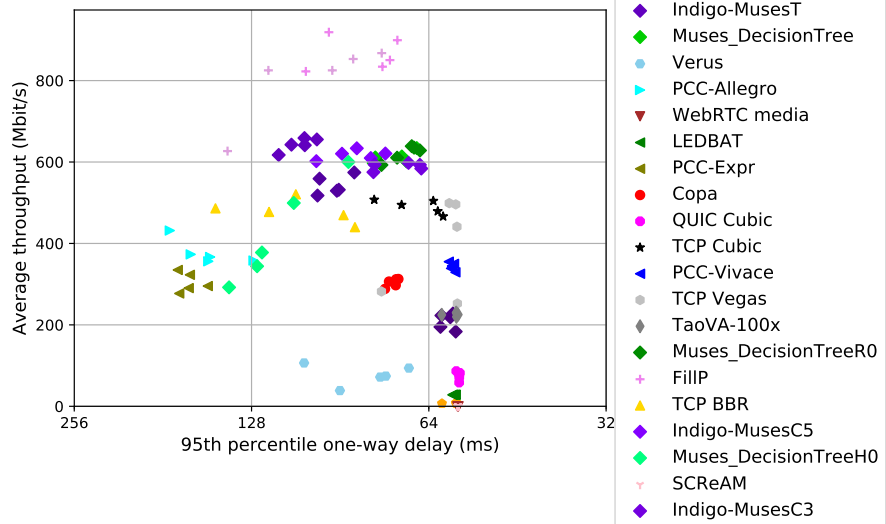
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
```

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

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



test from GCE Tokyo to GCE Sydney, 5 runs of 30s each per scheme



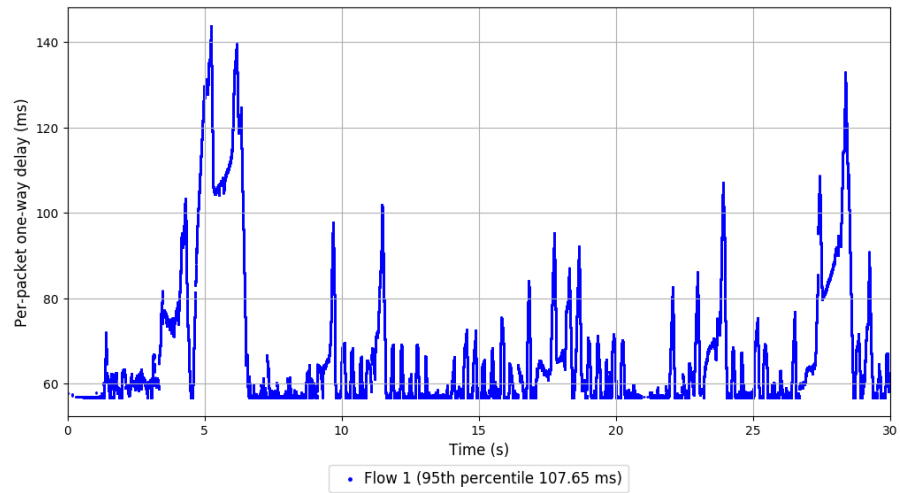
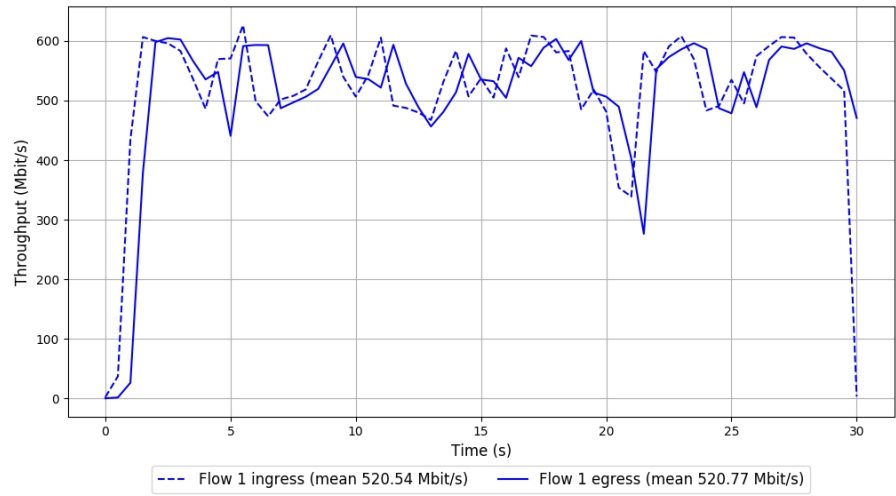
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	478.80	109.87	0.43
Copa	5	303.38	73.68	0.43
TCP Cubic	5	490.40	67.12	0.37
FillP	5	865.00	84.35	0.50
FillP-Sheep	5	799.52	103.35	1.04
Indigo	5	209.67	59.35	0.40
Indigo-MusesC3	5	588.77	72.01	0.45
Indigo-MusesC5	5	617.35	86.04	0.48
Indigo-MusesD	5	542.47	93.07	0.48
Indigo-MusesT	5	643.07	106.36	0.52
LEDBAT	5	28.33	58.00	0.76
Muses_DecisionTree	5	611.63	73.27	0.43
Muses_DecisionTreeH0	5	422.67	116.81	0.32
Muses_DecisionTreeR0	5	621.19	70.39	0.44
PCC-Allegro	5	377.16	153.53	1.11
PCC-Expr	5	304.13	163.82	3.14
QUIC Cubic	5	75.02	56.93	0.44
SCReAM	5	0.22	57.09	0.36
Sprout	5	7.75	58.14	0.40
TaoVA-100x	5	225.78	58.06	0.41
TCP Vegas	5	394.08	61.66	0.37
Verus	5	77.00	83.43	0.12
PCC-Vivace	5	343.50	58.41	0.45
WebRTC media	4	0.05	57.10	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-11-24 21:50:51  
End at: 2019-11-24 21:51:21  
Local clock offset: -0.116 ms  
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-11-25 00:38:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 520.77 Mbit/s  
95th percentile per-packet one-way delay: 107.648 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 520.77 Mbit/s  
95th percentile per-packet one-way delay: 107.648 ms  
Loss rate: 0.34%

# Run 1: Report of TCP BBR — Data Link

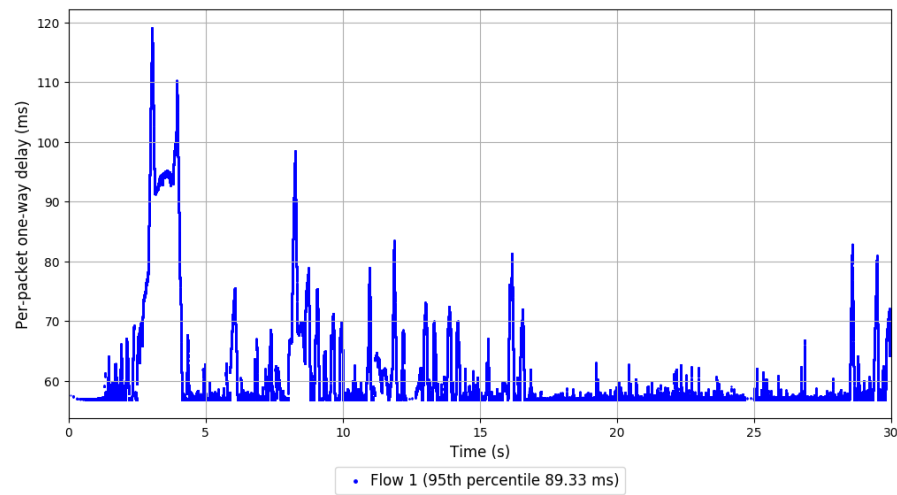
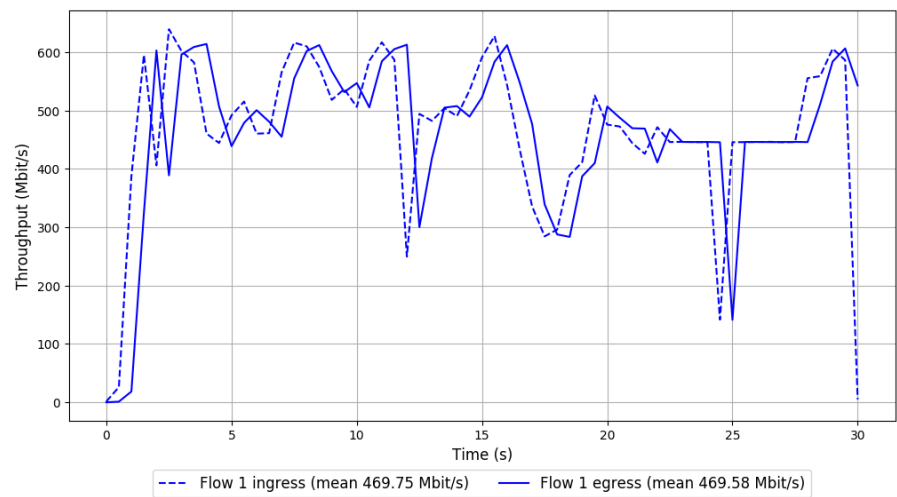


Run 2: Statistics of TCP BBR

Start at: 2019-11-24 22:26:07  
End at: 2019-11-24 22:26:37  
Local clock offset: -0.067 ms  
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2019-11-25 00:38:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 469.58 Mbit/s  
95th percentile per-packet one-way delay: 89.328 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 469.58 Mbit/s  
95th percentile per-packet one-way delay: 89.328 ms  
Loss rate: 0.42%

Run 2: Report of TCP BBR — Data Link

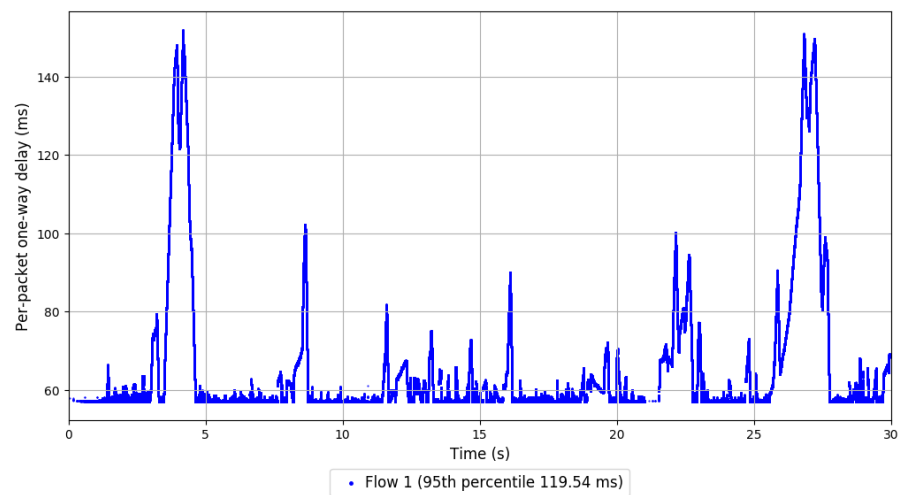
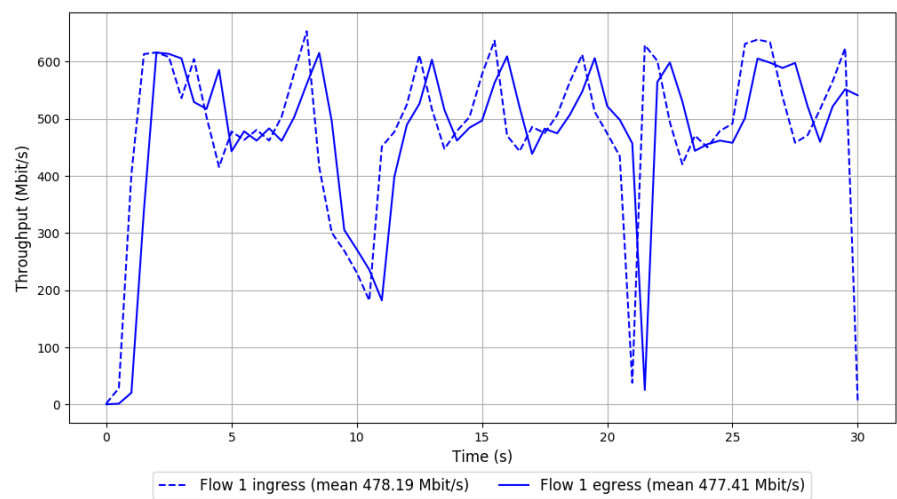


Run 3: Statistics of TCP BBR

Start at: 2019-11-24 23:01:12  
End at: 2019-11-24 23:01:42  
Local clock offset: -0.101 ms  
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2019-11-25 00:38:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 477.41 Mbit/s  
95th percentile per-packet one-way delay: 119.539 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 477.41 Mbit/s  
95th percentile per-packet one-way delay: 119.539 ms  
Loss rate: 0.55%

Run 3: Report of TCP BBR — Data Link

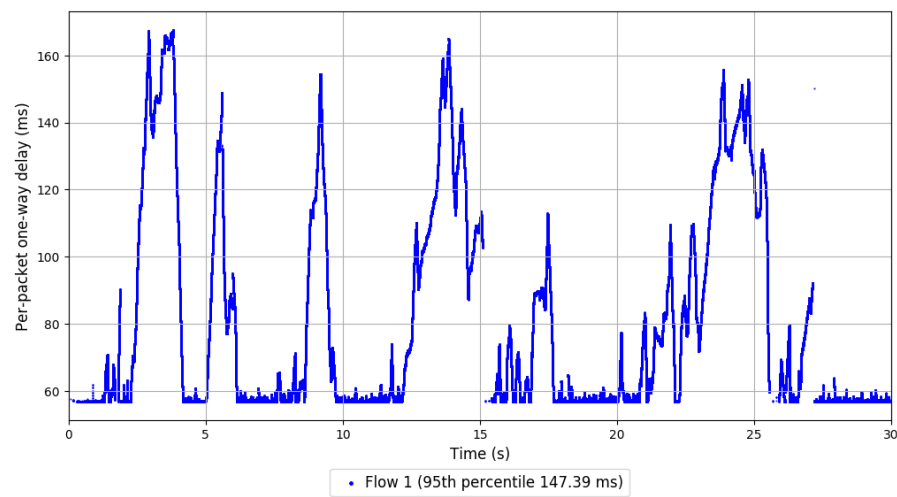
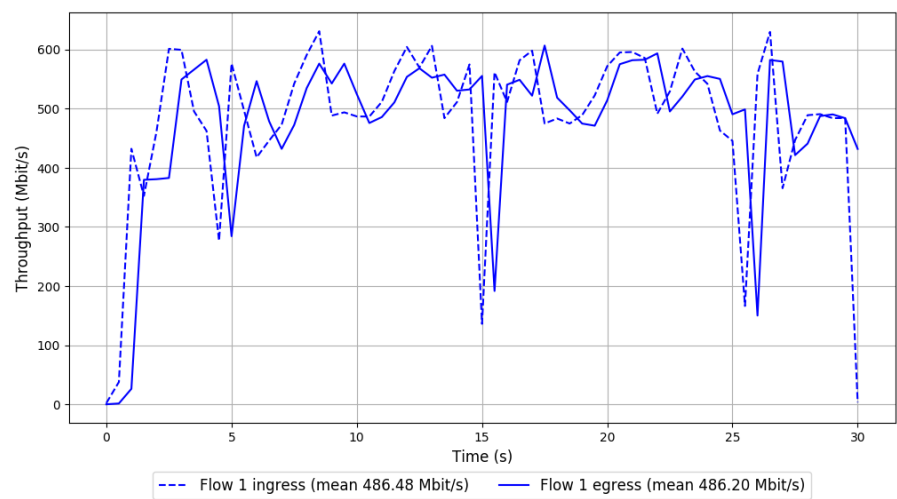


Run 4: Statistics of TCP BBR

Start at: 2019-11-24 23:36:37  
End at: 2019-11-24 23:37:07  
Local clock offset: -0.07 ms  
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2019-11-25 00:38:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 486.20 Mbit/s  
95th percentile per-packet one-way delay: 147.392 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 486.20 Mbit/s  
95th percentile per-packet one-way delay: 147.392 ms  
Loss rate: 0.44%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-11-25 00:11:32

End at: 2019-11-25 00:12:02

Local clock offset: 0.028 ms

Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2019-11-25 00:38:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 440.05 Mbit/s

95th percentile per-packet one-way delay: 85.434 ms

Loss rate: 0.39%

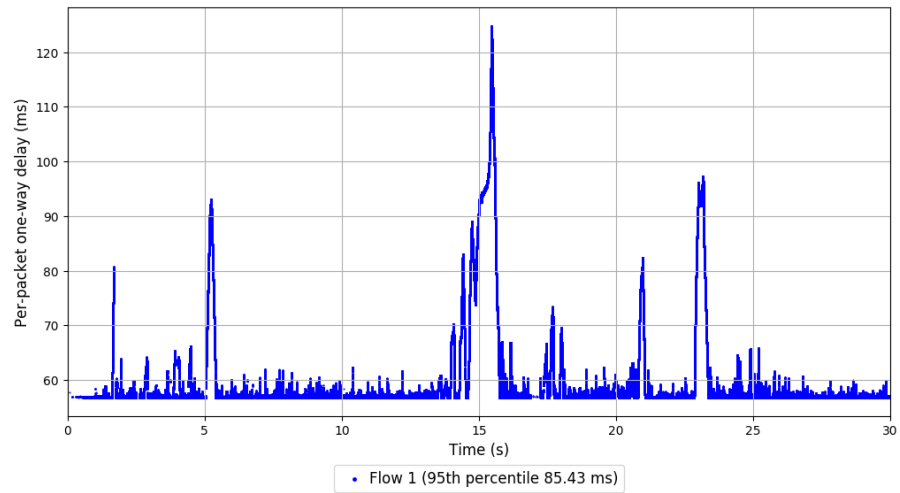
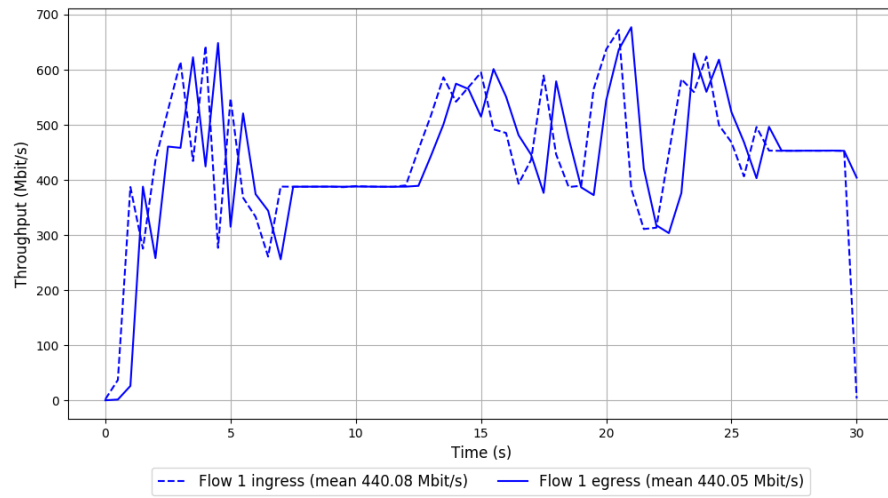
-- Flow 1:

Average throughput: 440.05 Mbit/s

95th percentile per-packet one-way delay: 85.434 ms

Loss rate: 0.39%

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

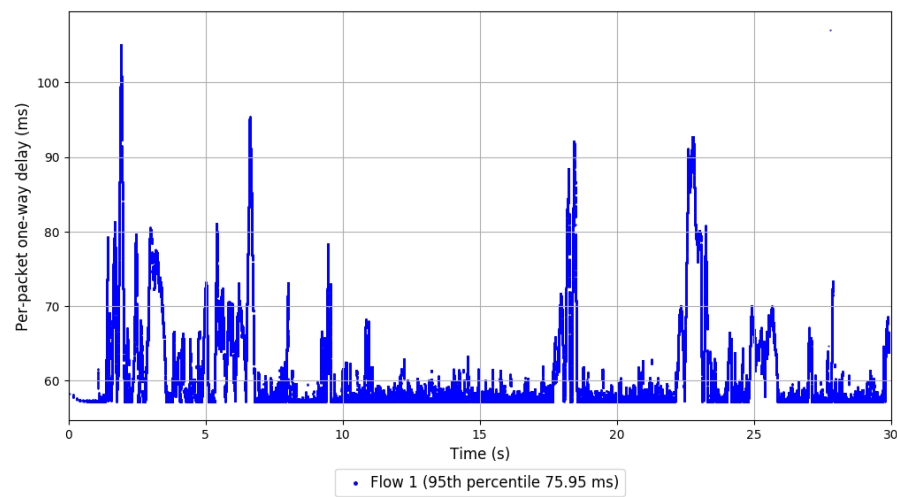
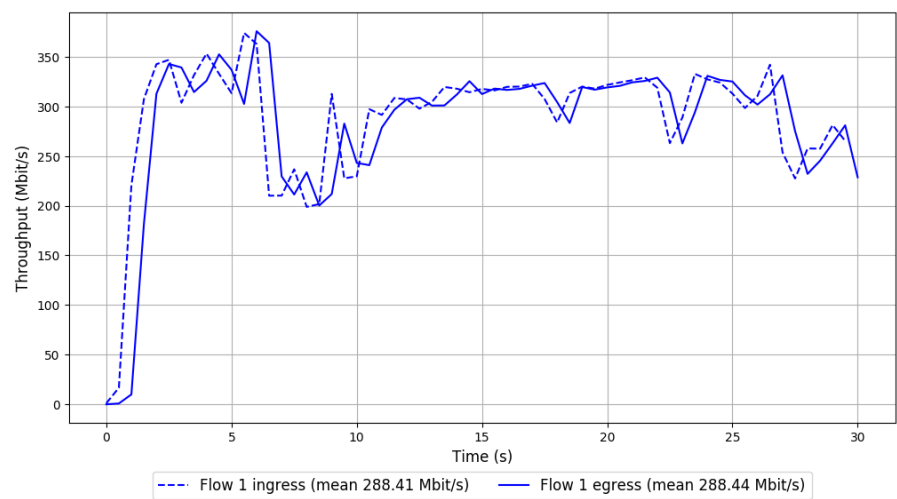


Run 1: Statistics of Copa

Start at: 2019-11-24 21:43:35  
End at: 2019-11-24 21:44:05  
Local clock offset: 0.311 ms  
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2019-11-25 00:38:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 288.44 Mbit/s  
95th percentile per-packet one-way delay: 75.951 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 288.44 Mbit/s  
95th percentile per-packet one-way delay: 75.951 ms  
Loss rate: 0.37%

Run 1: Report of Copa — Data Link

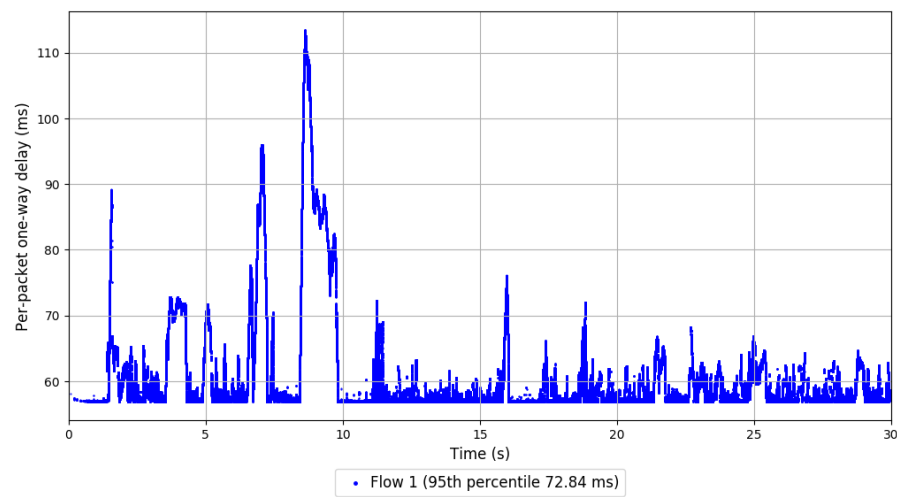
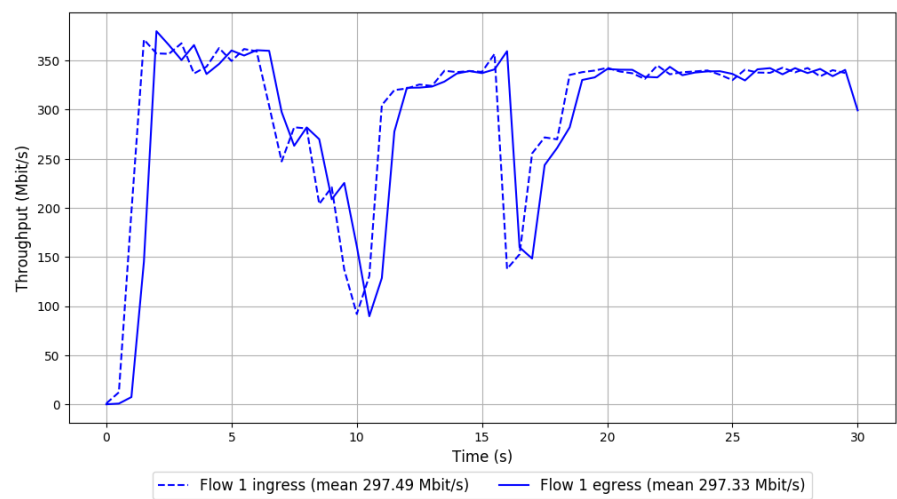


Run 2: Statistics of Copa

Start at: 2019-11-24 22:18:33  
End at: 2019-11-24 22:19:03  
Local clock offset: -0.052 ms  
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2019-11-25 00:38:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 297.33 Mbit/s  
95th percentile per-packet one-way delay: 72.842 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 297.33 Mbit/s  
95th percentile per-packet one-way delay: 72.842 ms  
Loss rate: 0.44%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-11-24 22:53:46

End at: 2019-11-24 22:54:16

Local clock offset: -0.079 ms

Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2019-11-25 00:38:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 306.40 Mbit/s

95th percentile per-packet one-way delay: 74.785 ms

Loss rate: 0.53%

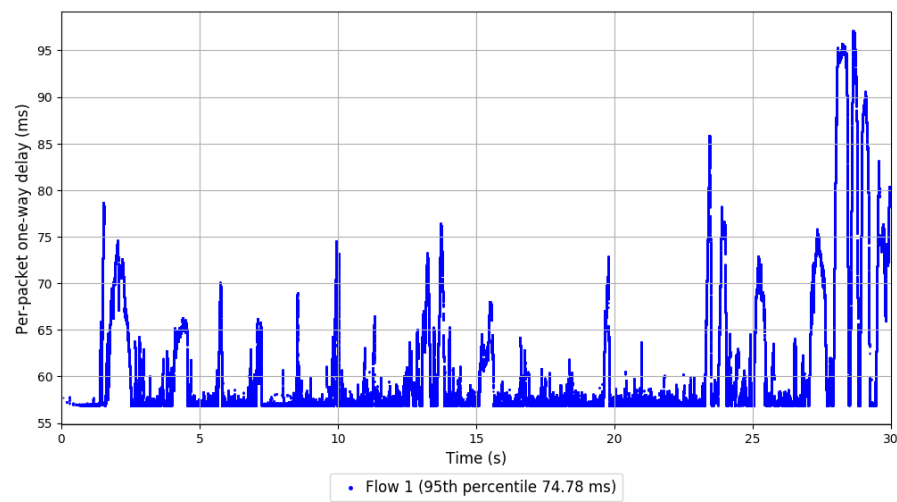
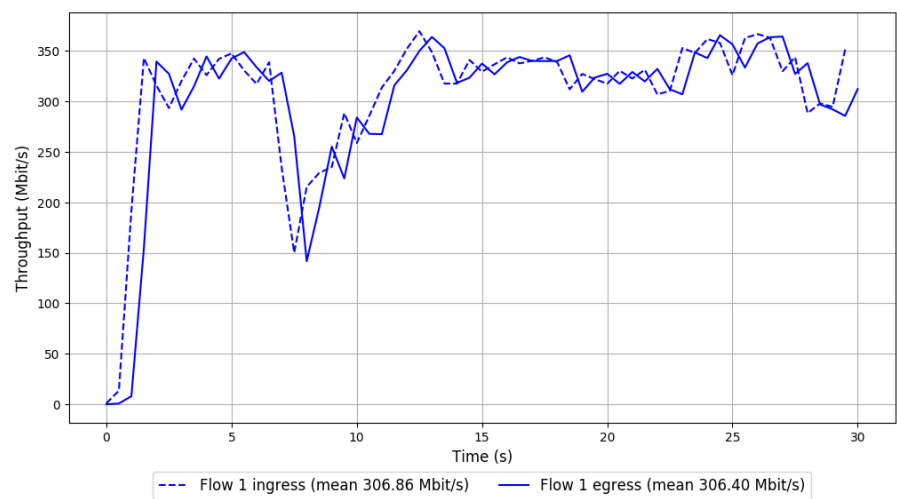
-- Flow 1:

Average throughput: 306.40 Mbit/s

95th percentile per-packet one-way delay: 74.785 ms

Loss rate: 0.53%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-11-24 23:29:08

End at: 2019-11-24 23:29:38

Local clock offset: 0.274 ms

Remote clock offset: 0.09 ms

# Below is generated by plot.py at 2019-11-25 00:46:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 312.66 Mbit/s

95th percentile per-packet one-way delay: 72.093 ms

Loss rate: 0.44%

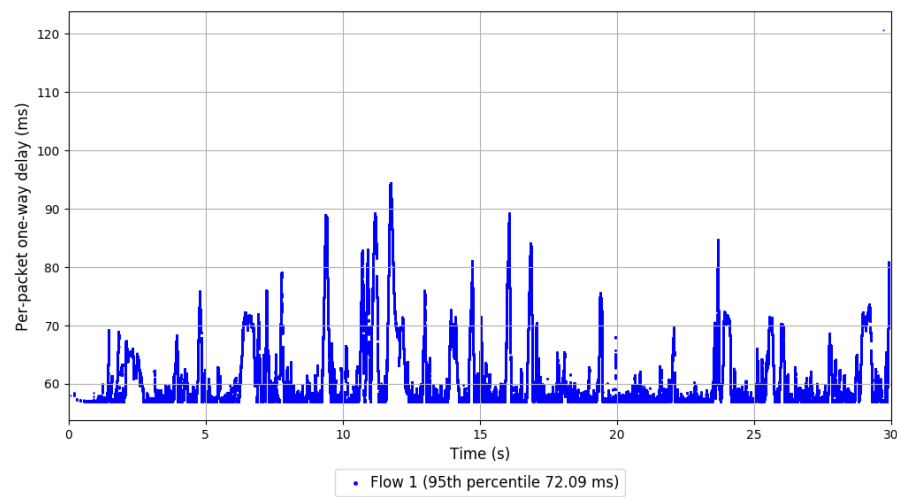
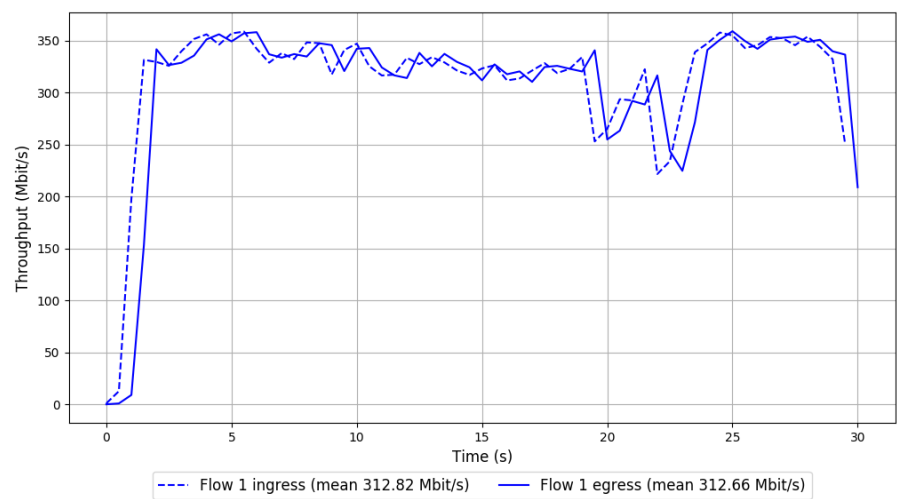
-- Flow 1:

Average throughput: 312.66 Mbit/s

95th percentile per-packet one-way delay: 72.093 ms

Loss rate: 0.44%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-11-25 00:04:16

End at: 2019-11-25 00:04:46

Local clock offset: 0.344 ms

Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2019-11-25 00:47:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 312.06 Mbit/s

95th percentile per-packet one-way delay: 72.731 ms

Loss rate: 0.38%

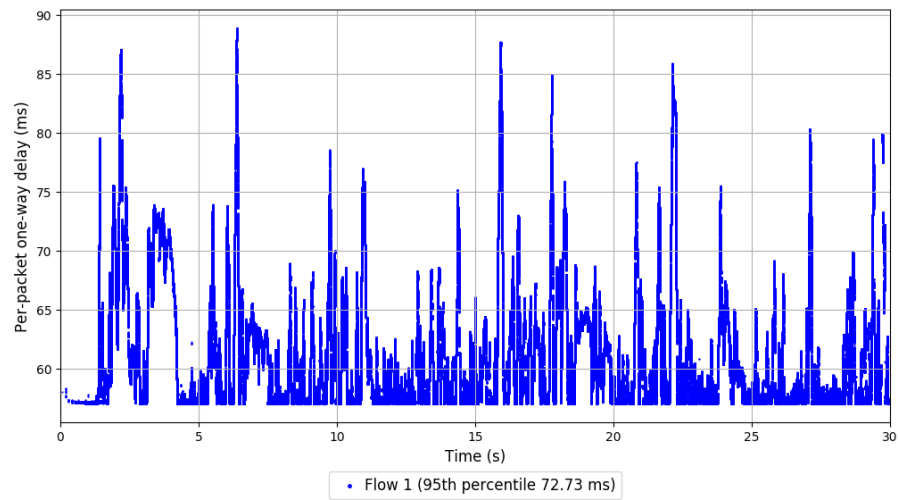
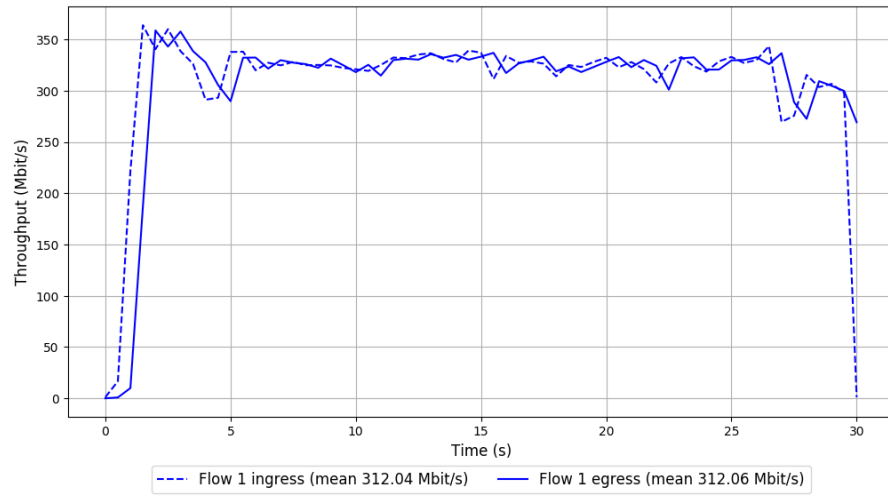
-- Flow 1:

Average throughput: 312.06 Mbit/s

95th percentile per-packet one-way delay: 72.731 ms

Loss rate: 0.38%

## Run 5: Report of Copa — Data Link

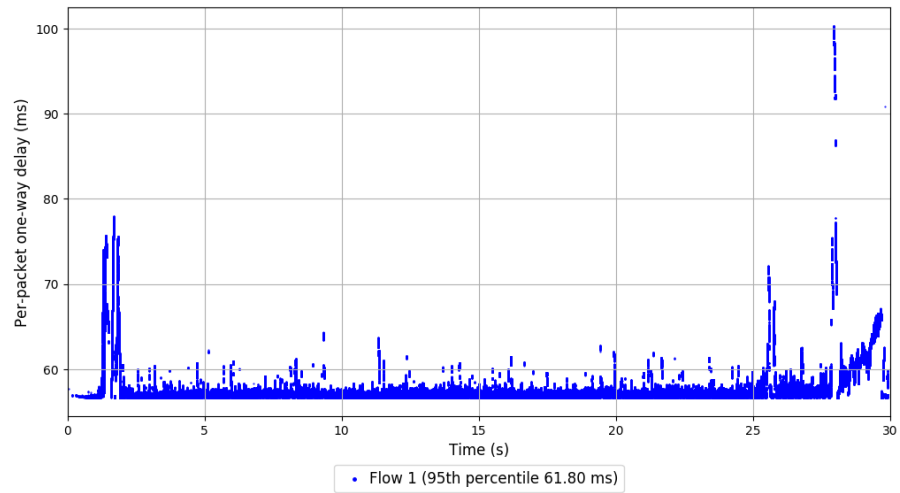
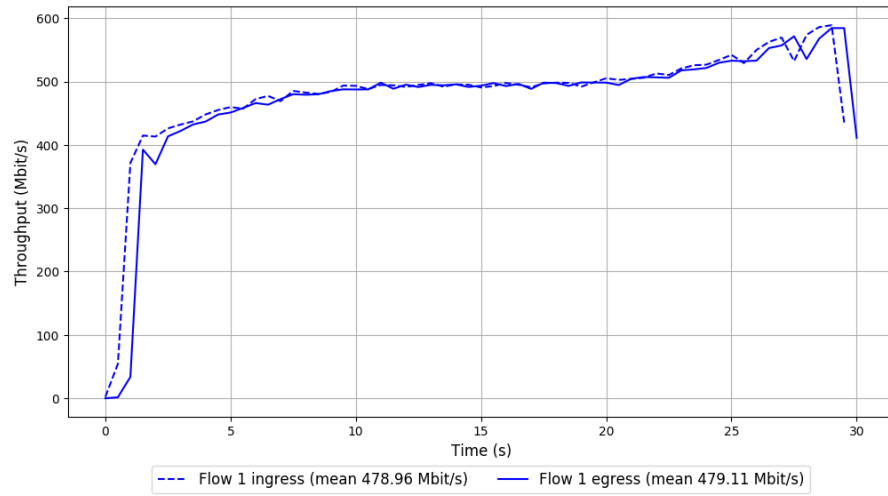


Run 1: Statistics of TCP Cubic

Start at: 2019-11-24 21:53:57  
End at: 2019-11-24 21:54:27  
Local clock offset: -0.116 ms  
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2019-11-25 00:47:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 479.11 Mbit/s  
95th percentile per-packet one-way delay: 61.798 ms  
Loss rate: 0.35%  
-- Flow 1:  
Average throughput: 479.11 Mbit/s  
95th percentile per-packet one-way delay: 61.798 ms  
Loss rate: 0.35%

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



Run 2: Statistics of TCP Cubic

Start at: 2019-11-24 22:29:15

End at: 2019-11-24 22:29:45

Local clock offset: 0.284 ms

Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2019-11-25 00:47:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 466.34 Mbit/s

95th percentile per-packet one-way delay: 60.517 ms

Loss rate: 0.40%

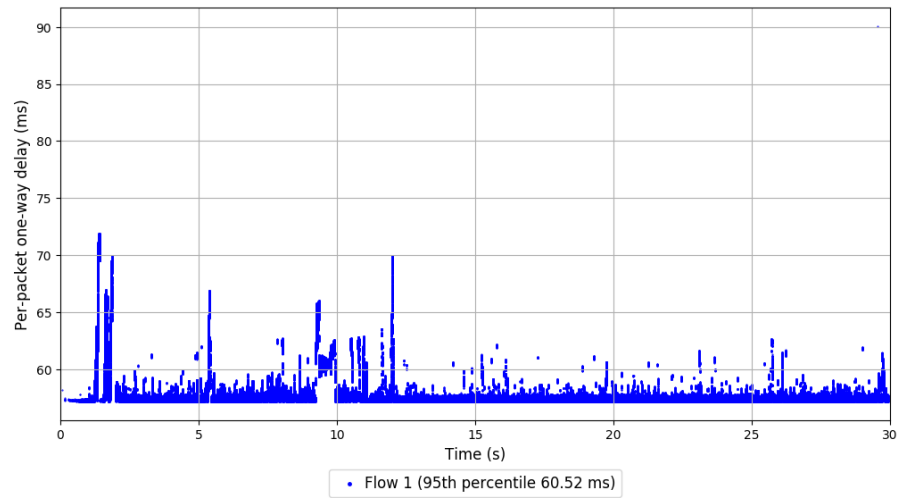
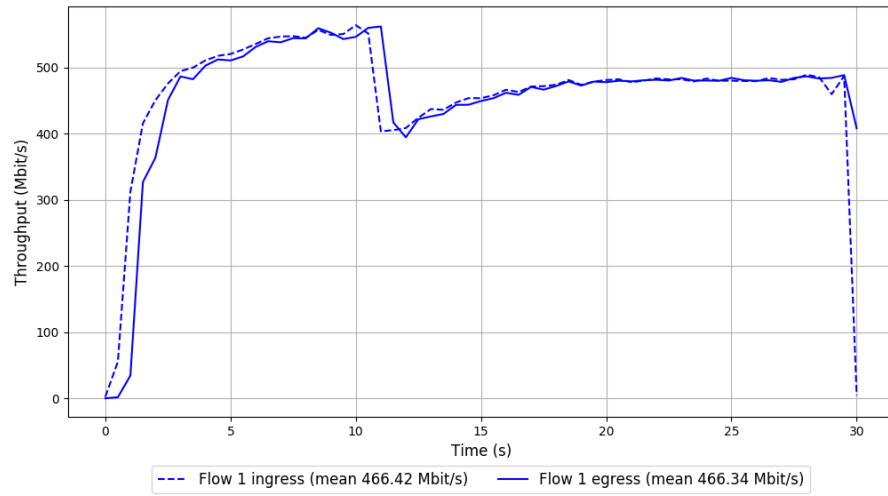
-- Flow 1:

Average throughput: 466.34 Mbit/s

95th percentile per-packet one-way delay: 60.517 ms

Loss rate: 0.40%

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

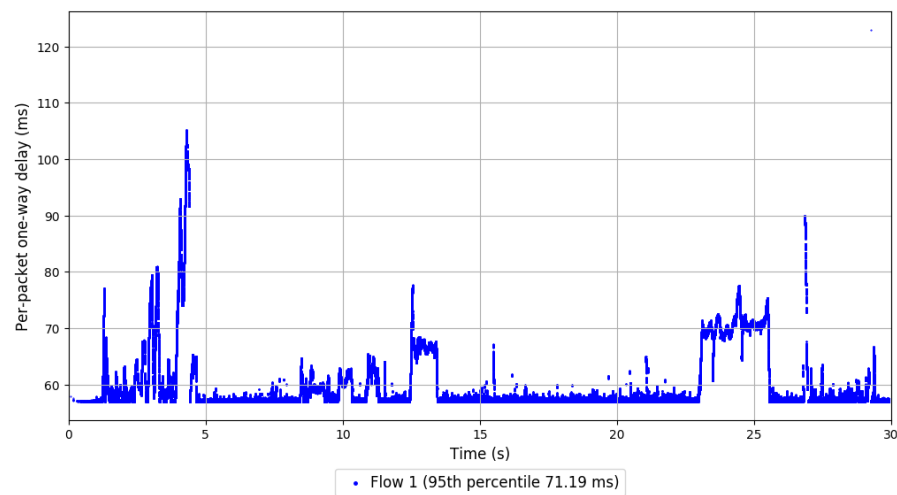
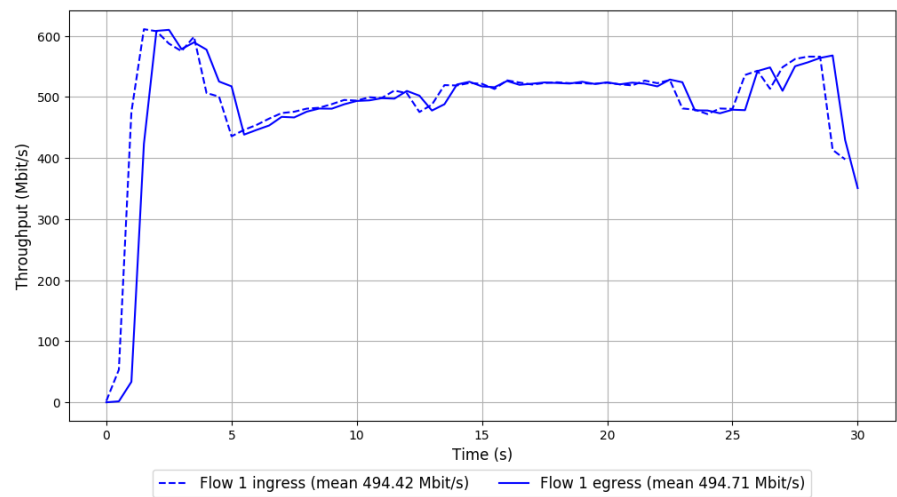


Run 3: Statistics of TCP Cubic

Start at: 2019-11-24 23:04:18  
End at: 2019-11-24 23:04:48  
Local clock offset: -0.034 ms  
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2019-11-25 00:47:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 494.71 Mbit/s  
95th percentile per-packet one-way delay: 71.191 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 494.71 Mbit/s  
95th percentile per-packet one-way delay: 71.191 ms  
Loss rate: 0.33%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-11-24 23:39:43

End at: 2019-11-24 23:40:13

Local clock offset: -0.079 ms

Remote clock offset: 0.166 ms

# Below is generated by plot.py at 2019-11-25 00:47:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 507.39 Mbit/s

95th percentile per-packet one-way delay: 79.226 ms

Loss rate: 0.40%

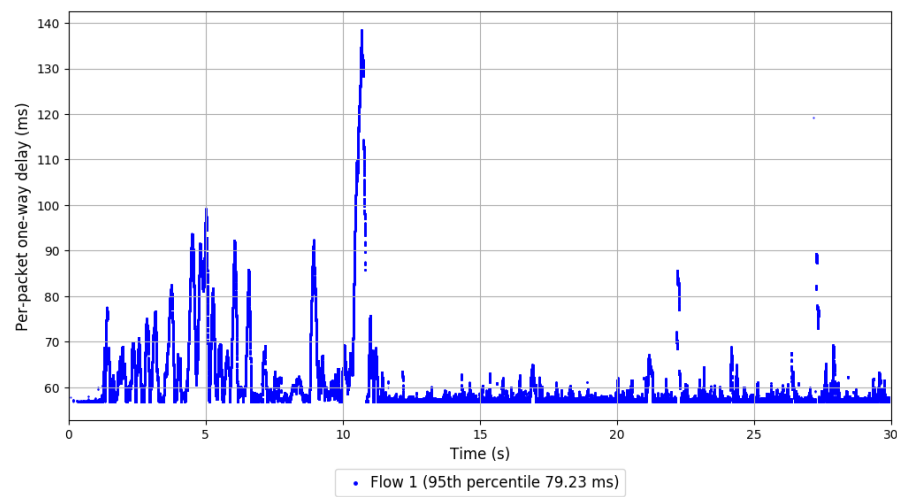
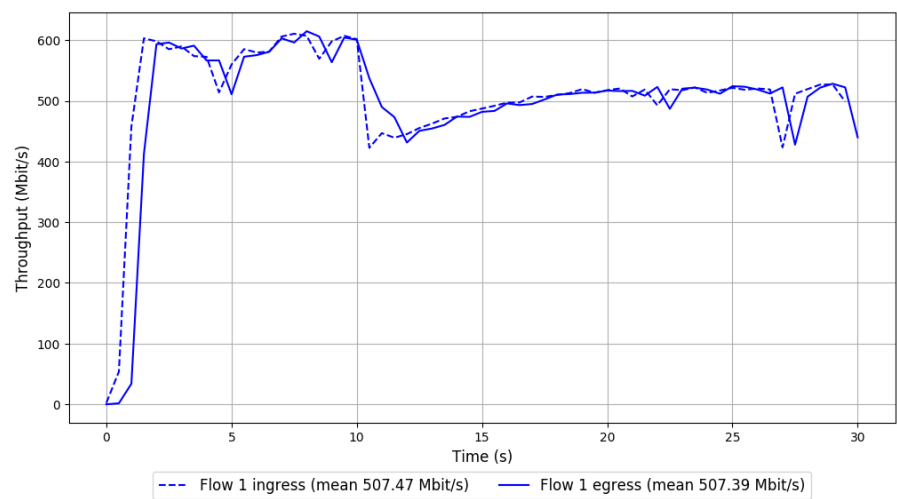
-- Flow 1:

Average throughput: 507.39 Mbit/s

95th percentile per-packet one-way delay: 79.226 ms

Loss rate: 0.40%

Run 4: Report of TCP Cubic — Data Link

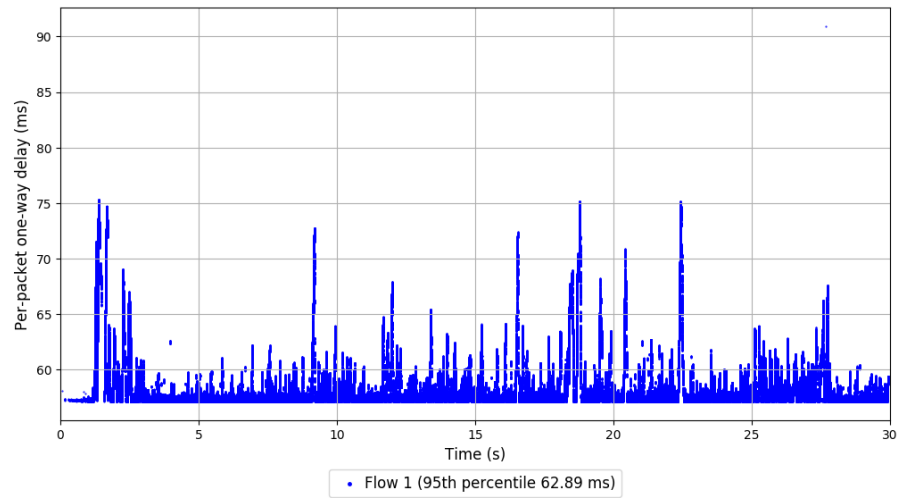
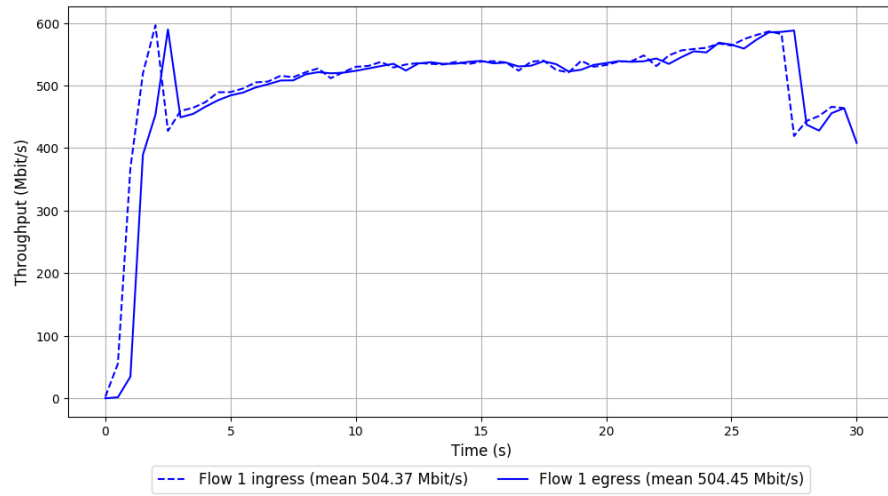


Run 5: Statistics of TCP Cubic

Start at: 2019-11-25 00:14:36  
End at: 2019-11-25 00:15:06  
Local clock offset: 0.368 ms  
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2019-11-25 00:47:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 504.45 Mbit/s  
95th percentile per-packet one-way delay: 62.891 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 504.45 Mbit/s  
95th percentile per-packet one-way delay: 62.891 ms  
Loss rate: 0.37%

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



Run 1: Statistics of FillP

Start at: 2019-11-24 21:31:54

End at: 2019-11-24 21:32:24

Local clock offset: -0.022 ms

Remote clock offset: 0.029 ms

# Below is generated by plot.py at 2019-11-25 00:57:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 899.21 Mbit/s

95th percentile per-packet one-way delay: 72.372 ms

Loss rate: 0.42%

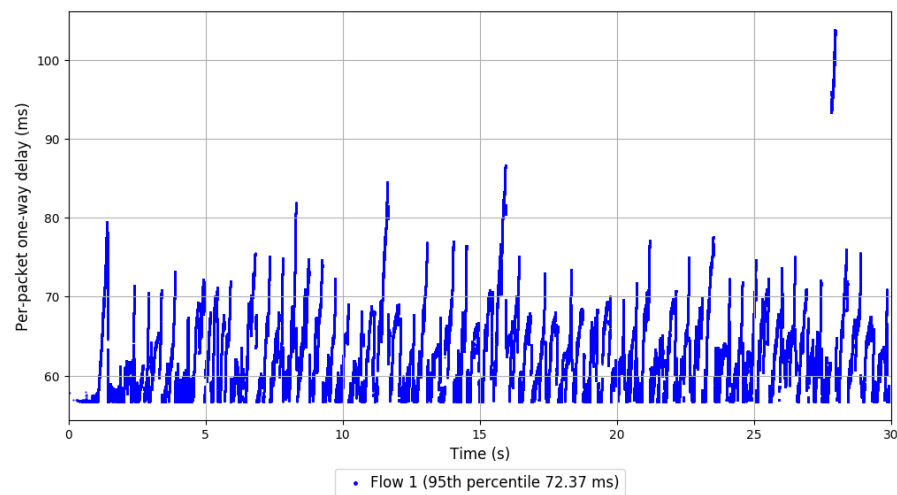
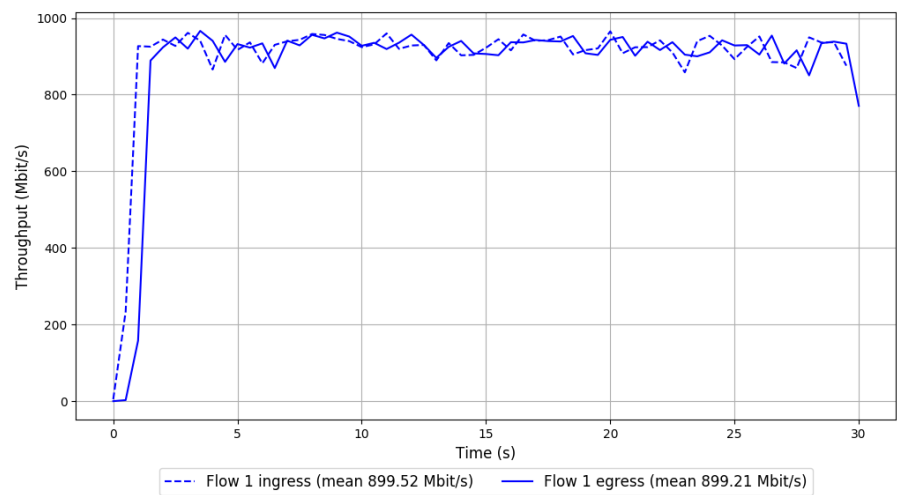
-- Flow 1:

Average throughput: 899.21 Mbit/s

95th percentile per-packet one-way delay: 72.372 ms

Loss rate: 0.42%

Run 1: Report of FillP — Data Link

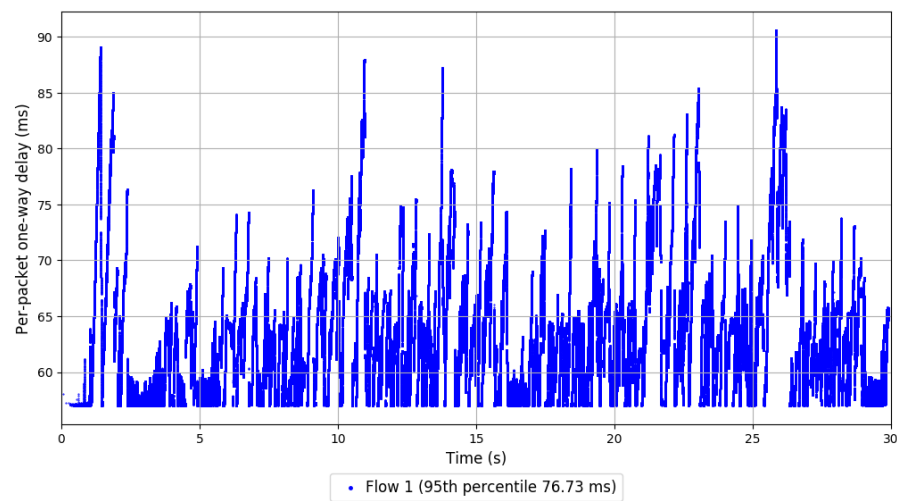
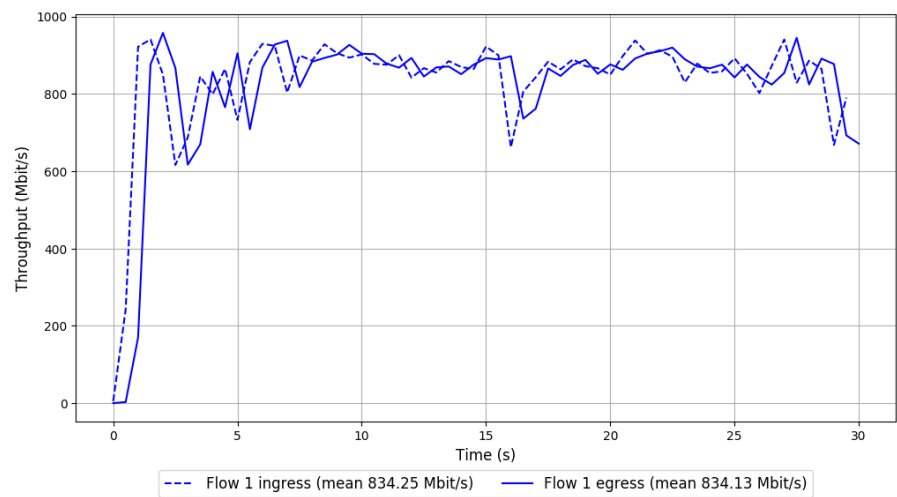


Run 2: Statistics of FillP

Start at: 2019-11-24 22:06:48  
End at: 2019-11-24 22:07:18  
Local clock offset: -0.115 ms  
Remote clock offset: -0.191 ms

# Below is generated by plot.py at 2019-11-25 01:03:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 834.13 Mbit/s  
95th percentile per-packet one-way delay: 76.726 ms  
Loss rate: 0.40%  
-- Flow 1:  
Average throughput: 834.13 Mbit/s  
95th percentile per-packet one-way delay: 76.726 ms  
Loss rate: 0.40%

Run 2: Report of FillP — Data Link

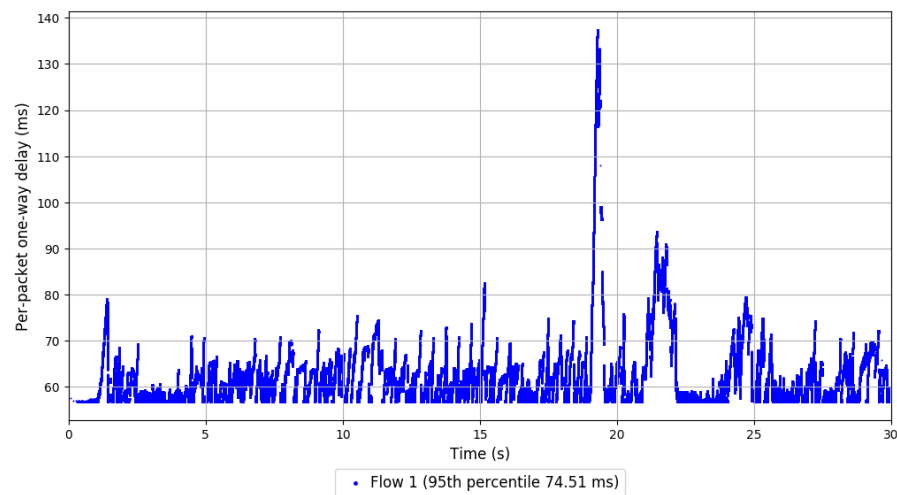
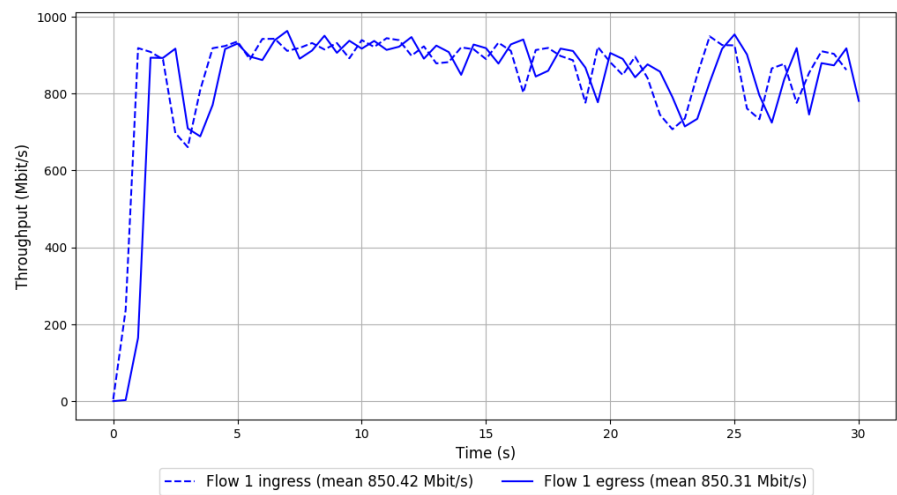


Run 3: Statistics of FillP

Start at: 2019-11-24 22:42:08  
End at: 2019-11-24 22:42:38  
Local clock offset: -0.052 ms  
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2019-11-25 01:04:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 850.31 Mbit/s  
95th percentile per-packet one-way delay: 74.514 ms  
Loss rate: 0.40%  
-- Flow 1:  
Average throughput: 850.31 Mbit/s  
95th percentile per-packet one-way delay: 74.514 ms  
Loss rate: 0.40%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-11-24 23:17:14

End at: 2019-11-24 23:17:44

Local clock offset: -0.11 ms

Remote clock offset: 0.04 ms

# Below is generated by plot.py at 2019-11-25 01:06:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 918.82 Mbit/s

95th percentile per-packet one-way delay: 94.602 ms

Loss rate: 0.73%

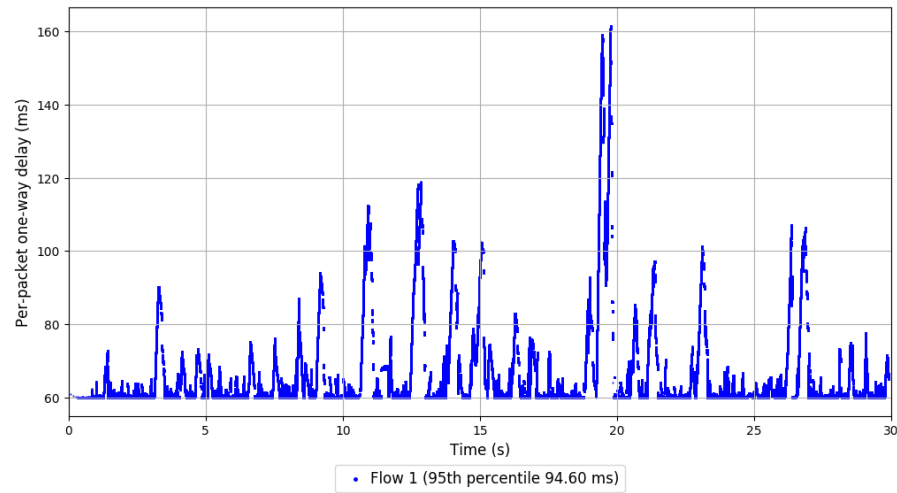
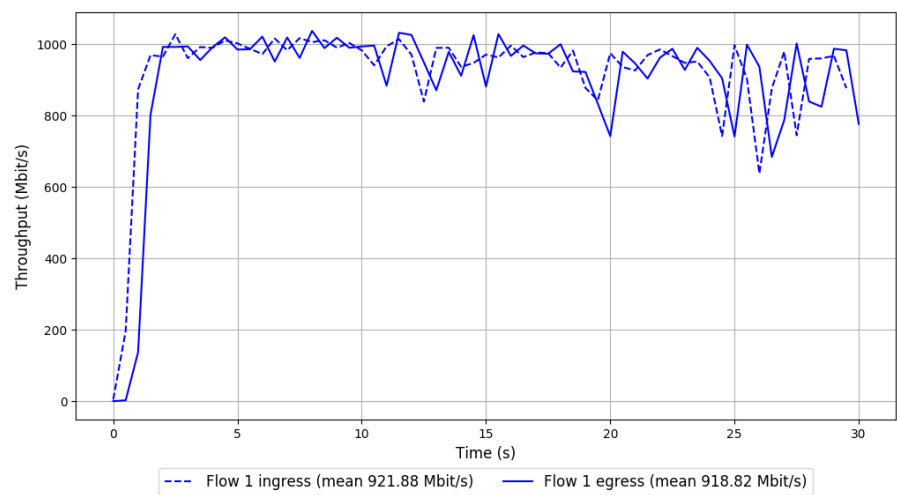
-- Flow 1:

Average throughput: 918.82 Mbit/s

95th percentile per-packet one-way delay: 94.602 ms

Loss rate: 0.73%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-11-24 23:52:36

End at: 2019-11-24 23:53:06

Local clock offset: -0.059 ms

Remote clock offset: 0.089 ms

# Below is generated by plot.py at 2019-11-25 01:06:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 822.55 Mbit/s

95th percentile per-packet one-way delay: 103.514 ms

Loss rate: 0.55%

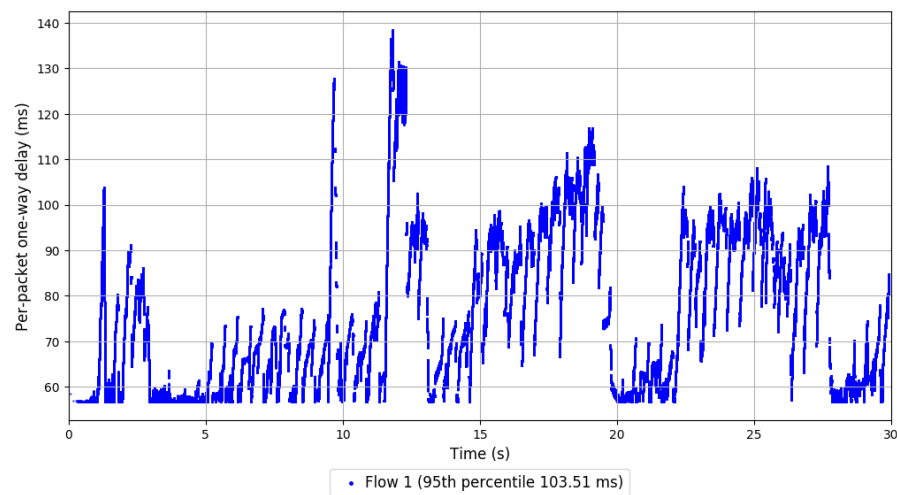
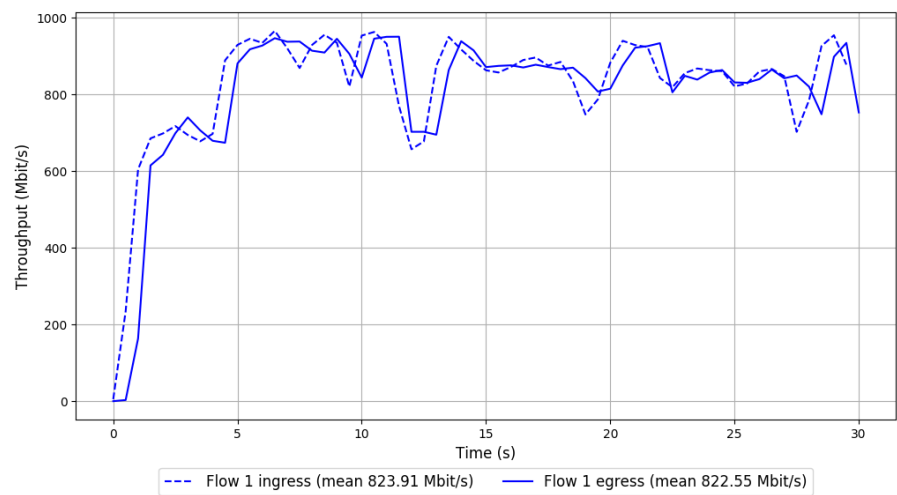
-- Flow 1:

Average throughput: 822.55 Mbit/s

95th percentile per-packet one-way delay: 103.514 ms

Loss rate: 0.55%

Run 5: Report of FillP — Data Link

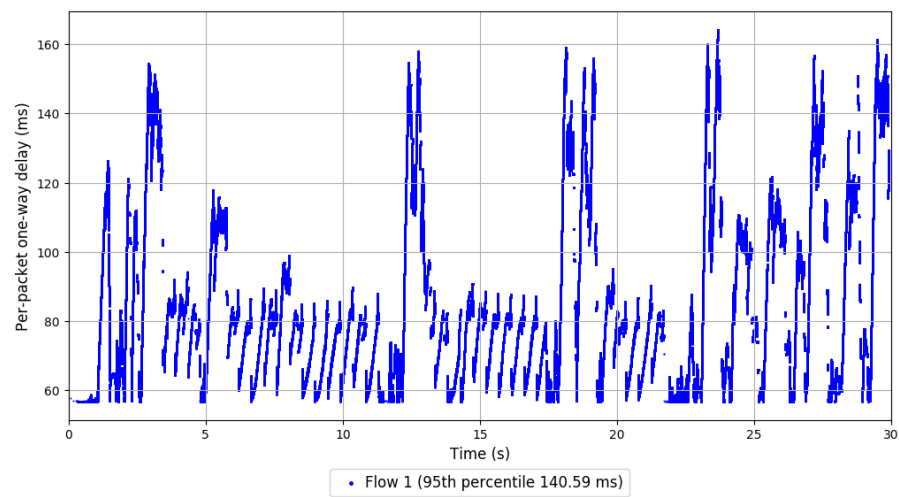
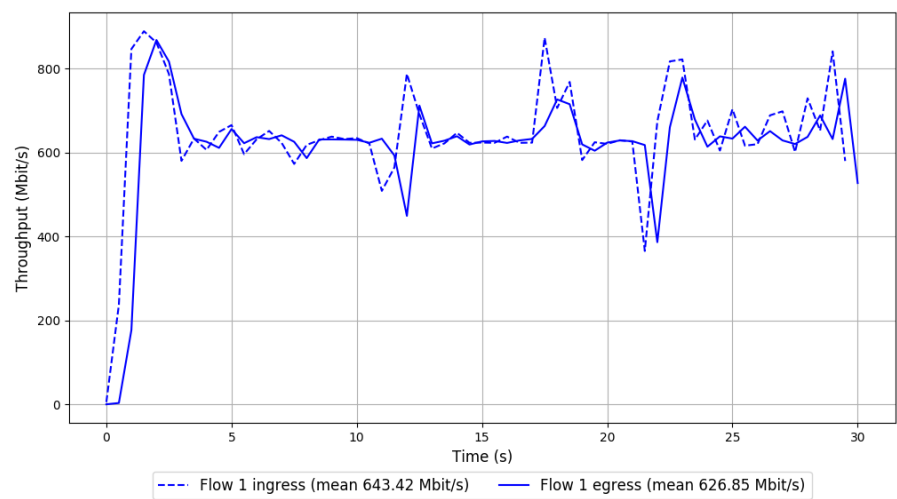


Run 1: Statistics of FillP-Sheep

Start at: 2019-11-24 21:26:05  
End at: 2019-11-24 21:26:35  
Local clock offset: -0.027 ms  
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2019-11-25 01:06:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 626.85 Mbit/s  
95th percentile per-packet one-way delay: 140.591 ms  
Loss rate: 2.82%  
-- Flow 1:  
Average throughput: 626.85 Mbit/s  
95th percentile per-packet one-way delay: 140.591 ms  
Loss rate: 2.82%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-11-24 22:00:54

End at: 2019-11-24 22:01:24

Local clock offset: 0.221 ms

Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2019-11-25 01:06:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 867.48 Mbit/s

95th percentile per-packet one-way delay: 76.947 ms

Loss rate: 0.40%

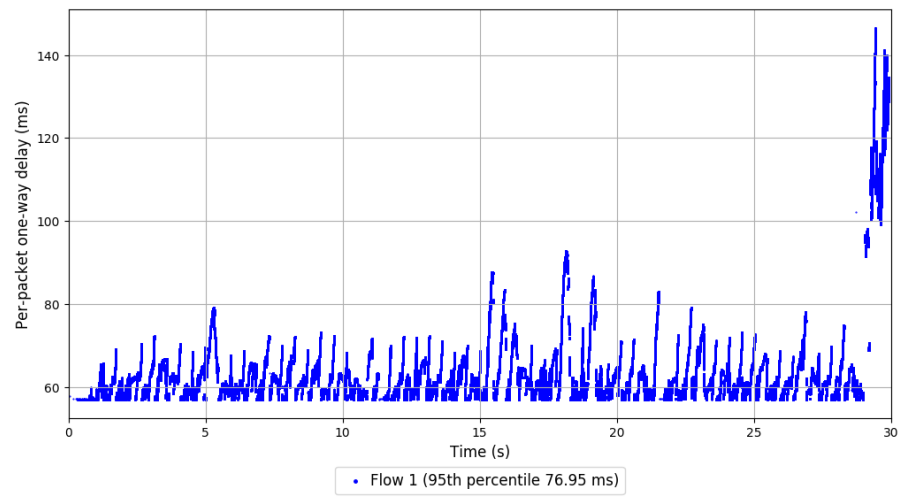
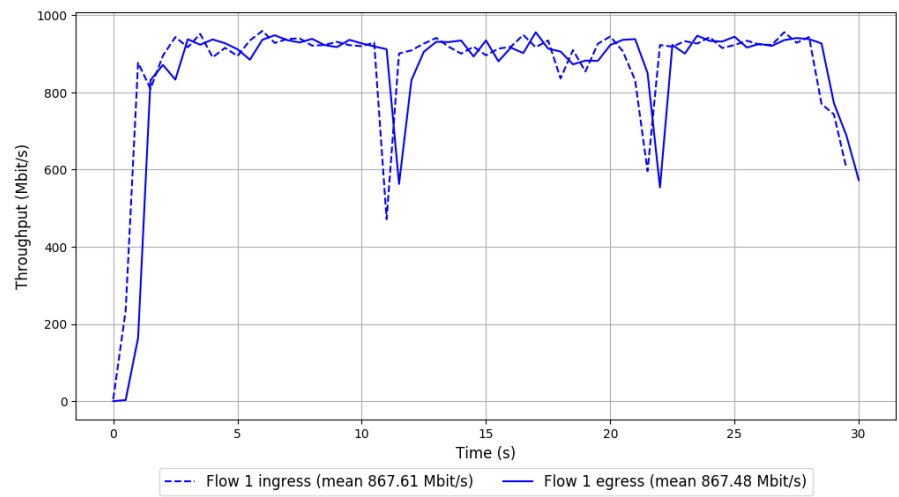
-- Flow 1:

Average throughput: 867.48 Mbit/s

95th percentile per-packet one-way delay: 76.947 ms

Loss rate: 0.40%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-11-24 22:36:13

End at: 2019-11-24 22:36:43

Local clock offset: 0.29 ms

Remote clock offset: 0.031 ms

# Below is generated by plot.py at 2019-11-25 01:06:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 853.03 Mbit/s

95th percentile per-packet one-way delay: 86.021 ms

Loss rate: 0.44%

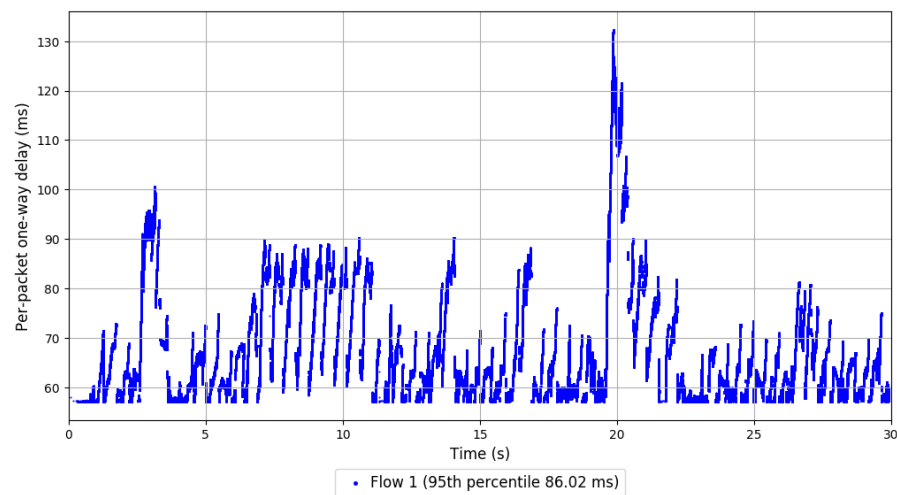
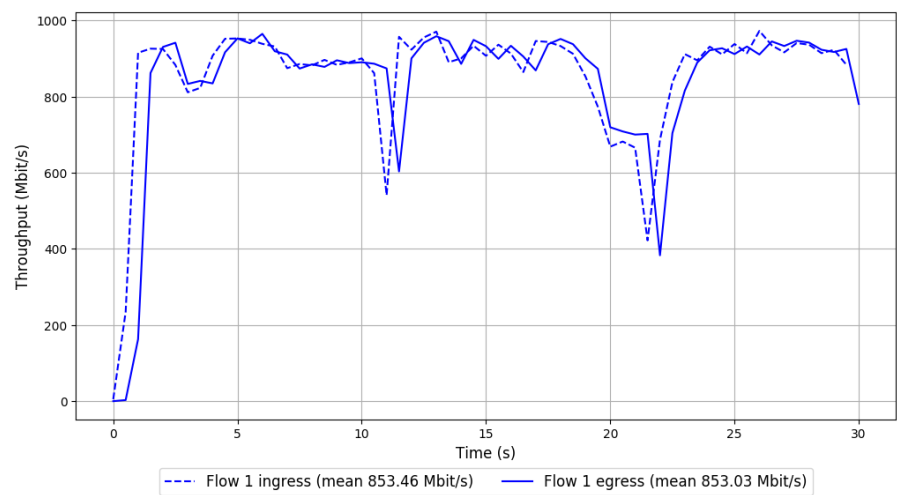
-- Flow 1:

Average throughput: 853.03 Mbit/s

95th percentile per-packet one-way delay: 86.021 ms

Loss rate: 0.44%

Run 3: Report of FillP-Sheep — Data Link

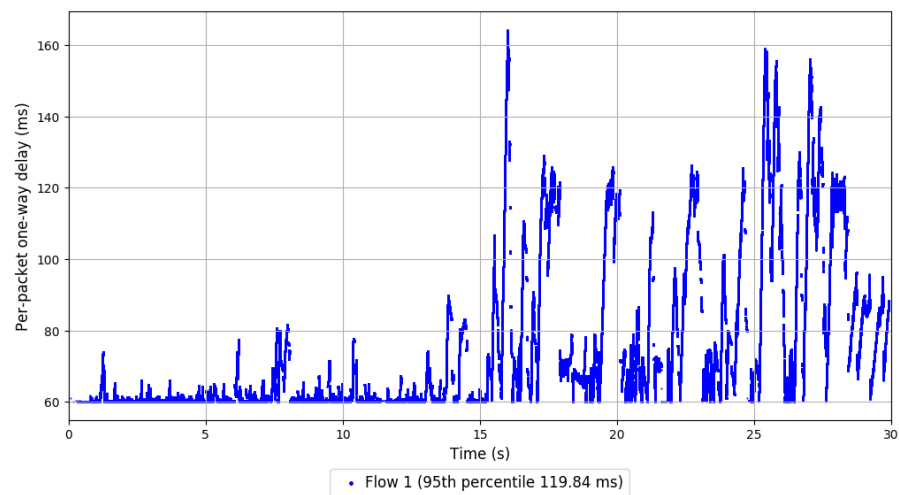
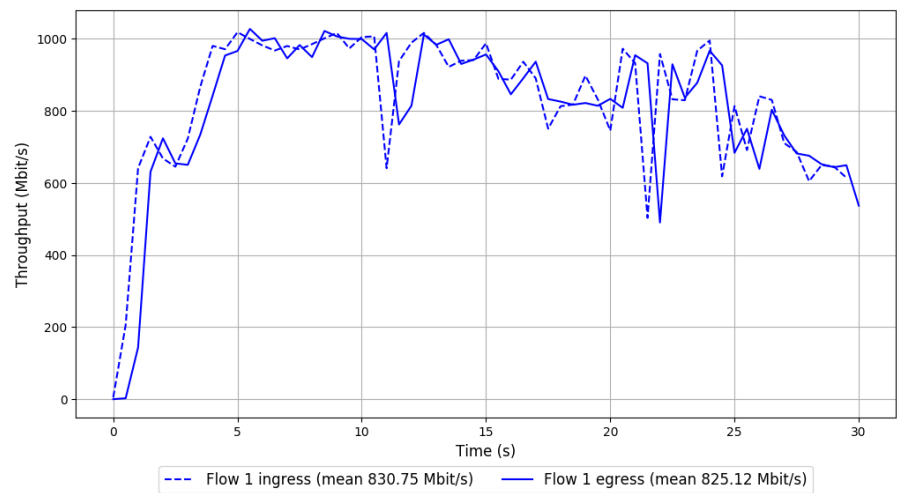


Run 4: Statistics of FillP-Sheep

Start at: 2019-11-24 23:11:16  
End at: 2019-11-24 23:11:46  
Local clock offset: -0.096 ms  
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-11-25 01:15:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 825.12 Mbit/s  
95th percentile per-packet one-way delay: 119.842 ms  
Loss rate: 1.07%  
-- Flow 1:  
Average throughput: 825.12 Mbit/s  
95th percentile per-packet one-way delay: 119.842 ms  
Loss rate: 1.07%

Run 4: Report of FillP-Sheep — Data Link

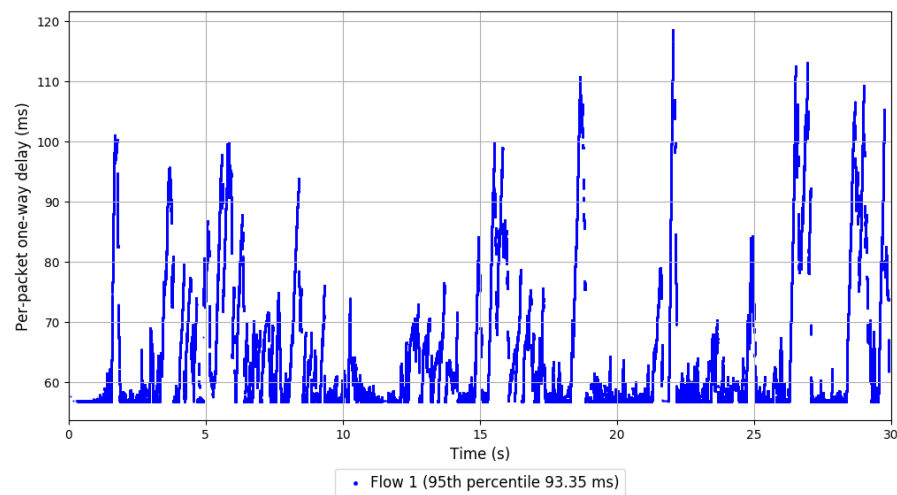
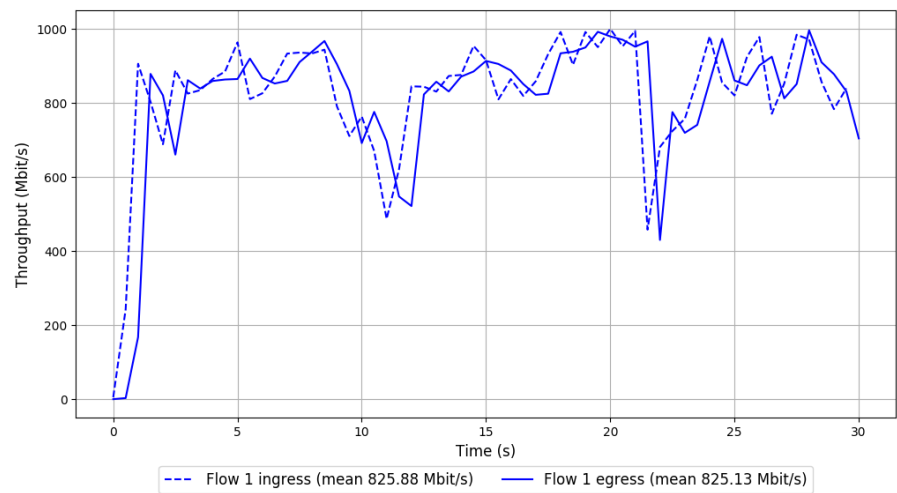


Run 5: Statistics of FillP-Sheep

Start at: 2019-11-24 23:46:40  
End at: 2019-11-24 23:47:10  
Local clock offset: -0.068 ms  
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-11-25 01:18:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 825.13 Mbit/s  
95th percentile per-packet one-way delay: 93.346 ms  
Loss rate: 0.48%  
-- Flow 1:  
Average throughput: 825.13 Mbit/s  
95th percentile per-packet one-way delay: 93.346 ms  
Loss rate: 0.48%

Run 5: Report of FillP-Sheep — Data Link

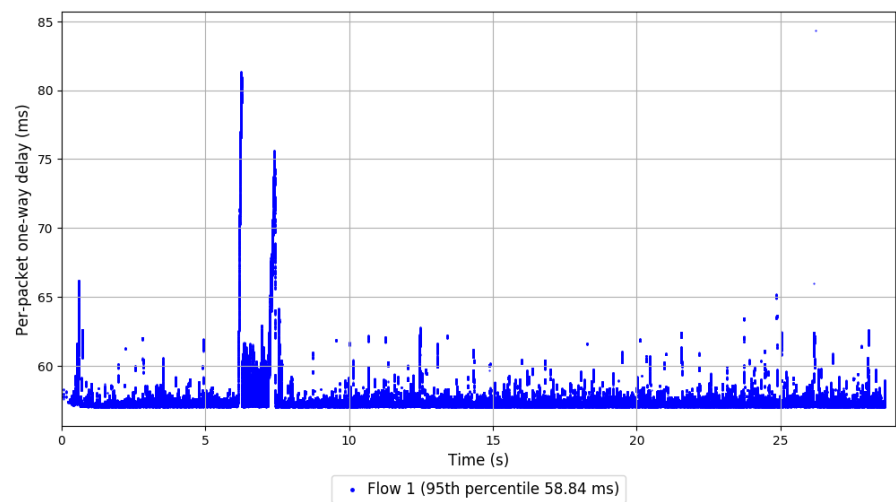
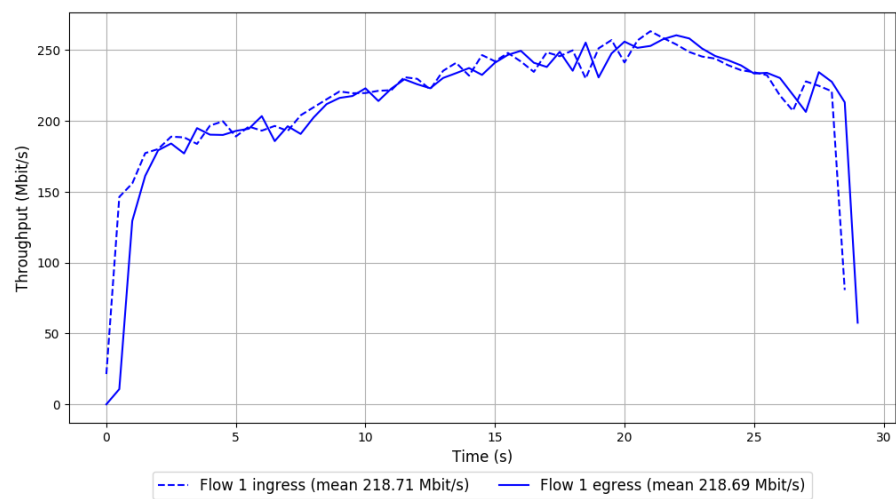


```
Run 1: Statistics of Indigo

Start at: 2019-11-24 21:30:27
End at: 2019-11-24 21:30:57
Local clock offset: 0.352 ms
Remote clock offset: 0.098 ms

# Below is generated by plot.py at 2019-11-25 01:18:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.69 Mbit/s
95th percentile per-packet one-way delay: 58.843 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 218.69 Mbit/s
95th percentile per-packet one-way delay: 58.843 ms
Loss rate: 0.41%
```

Run 1: Report of Indigo — Data Link

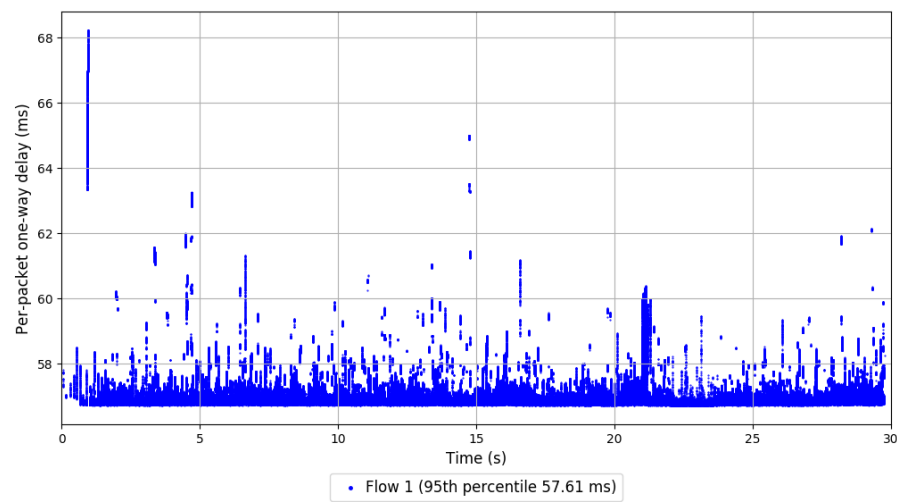
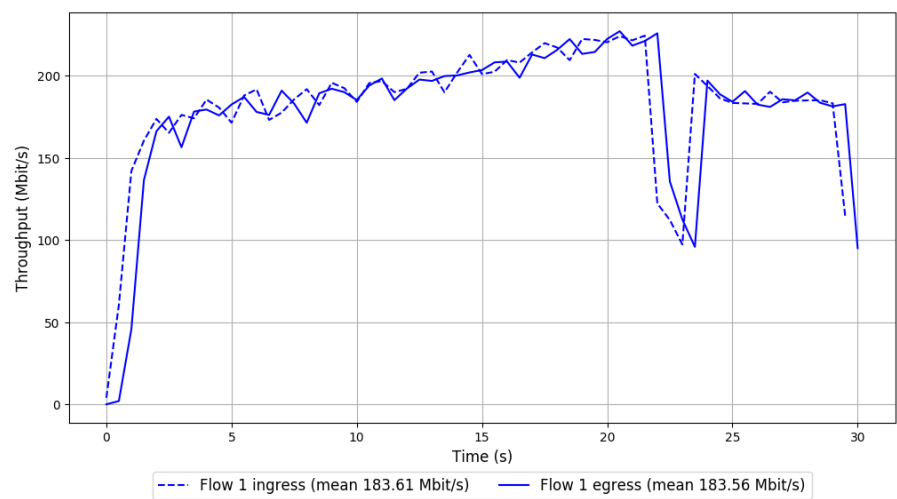


Run 2: Statistics of Indigo

Start at: 2019-11-24 22:05:24  
End at: 2019-11-24 22:05:54  
Local clock offset: -0.128 ms  
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2019-11-25 01:18:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 183.56 Mbit/s  
95th percentile per-packet one-way delay: 57.614 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 183.56 Mbit/s  
95th percentile per-packet one-way delay: 57.614 ms  
Loss rate: 0.39%

Run 2: Report of Indigo — Data Link

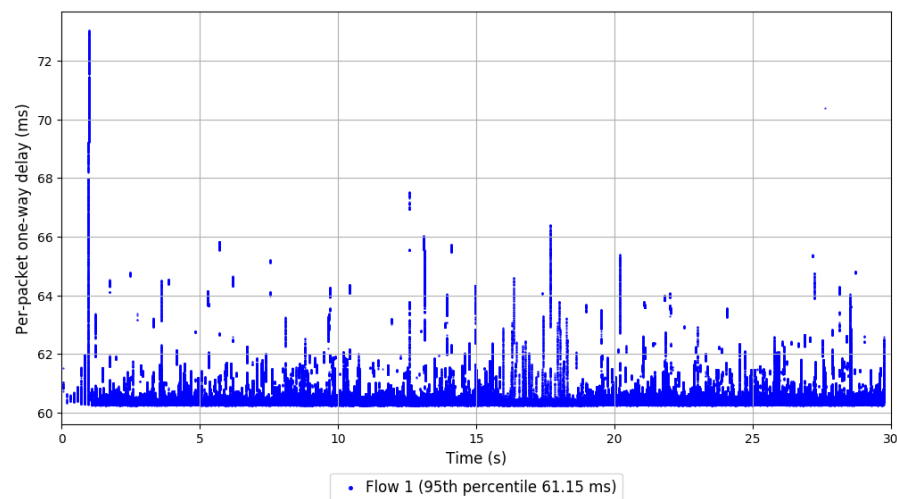
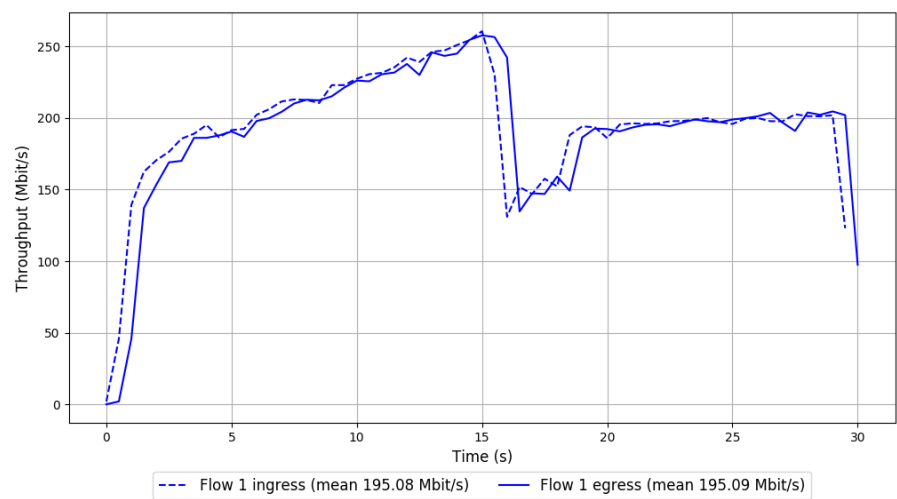


Run 3: Statistics of Indigo

Start at: 2019-11-24 22:40:42  
End at: 2019-11-24 22:41:12  
Local clock offset: -0.047 ms  
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2019-11-25 01:18:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 195.09 Mbit/s  
95th percentile per-packet one-way delay: 61.154 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 195.09 Mbit/s  
95th percentile per-packet one-way delay: 61.154 ms  
Loss rate: 0.39%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-11-24 23:15:45

End at: 2019-11-24 23:16:16

Local clock offset: -0.085 ms

Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2019-11-25 01:18:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 227.97 Mbit/s

95th percentile per-packet one-way delay: 58.231 ms

Loss rate: 0.40%

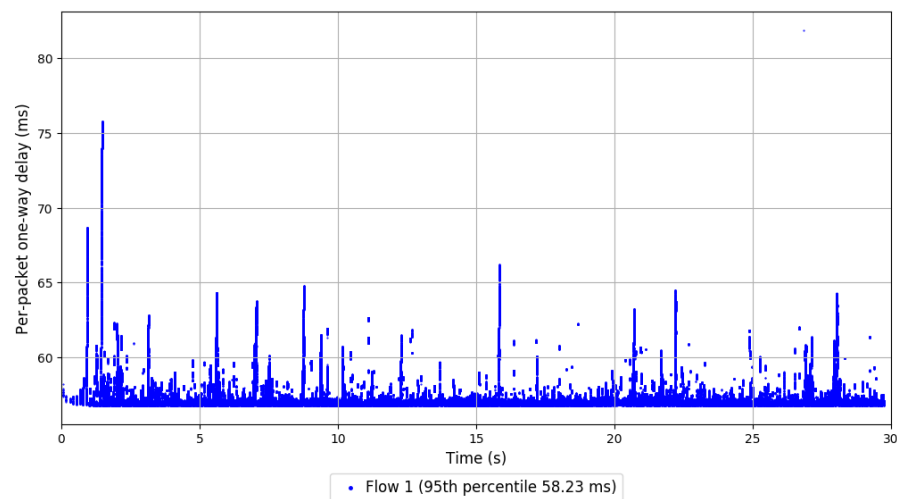
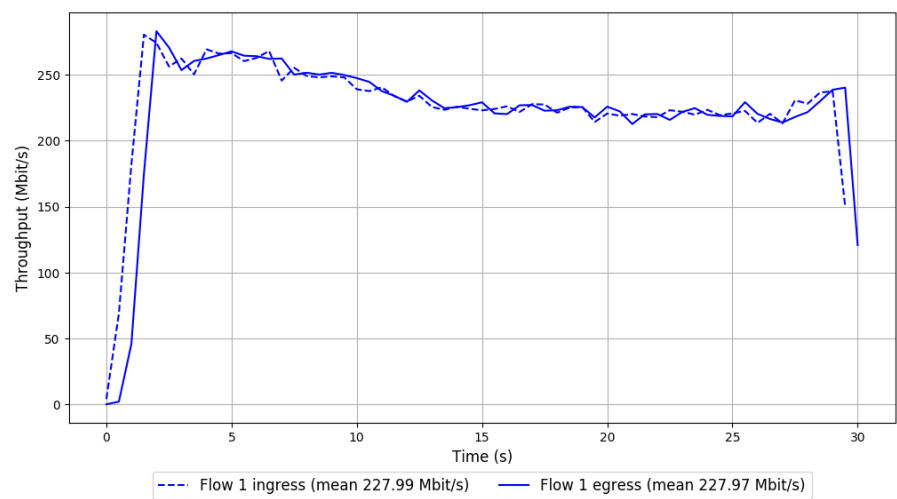
-- Flow 1:

Average throughput: 227.97 Mbit/s

95th percentile per-packet one-way delay: 58.231 ms

Loss rate: 0.40%

Run 4: Report of Indigo — Data Link

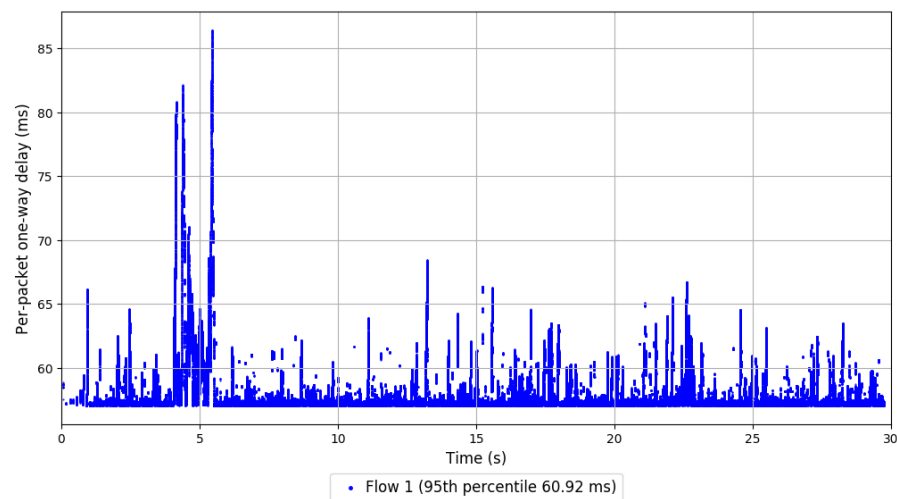
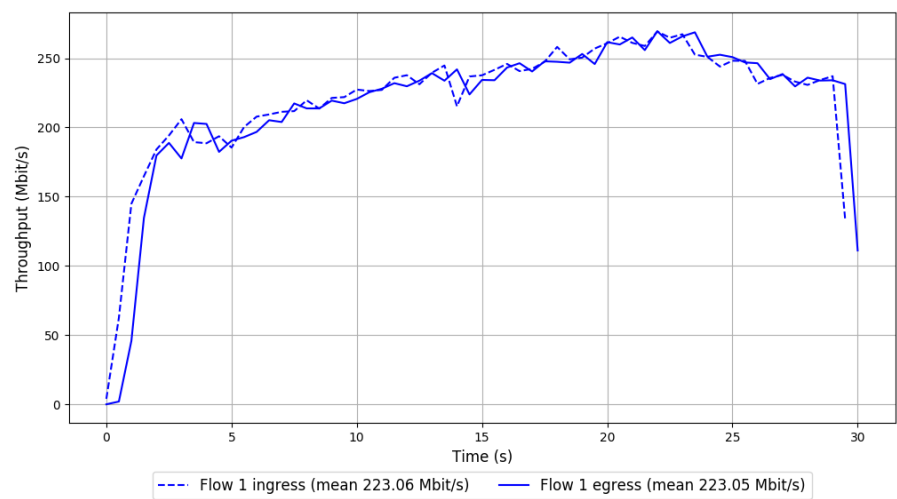


Run 5: Statistics of Indigo

Start at: 2019-11-24 23:51:08  
End at: 2019-11-24 23:51:38  
Local clock offset: -0.081 ms  
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2019-11-25 01:18:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 223.05 Mbit/s  
95th percentile per-packet one-way delay: 60.922 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 223.05 Mbit/s  
95th percentile per-packet one-way delay: 60.922 ms  
Loss rate: 0.39%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-11-24 21:22:12

End at: 2019-11-24 21:22:42

Local clock offset: -0.046 ms

Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2019-11-25 01:18:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 583.98 Mbit/s

95th percentile per-packet one-way delay: 65.916 ms

Loss rate: 0.50%

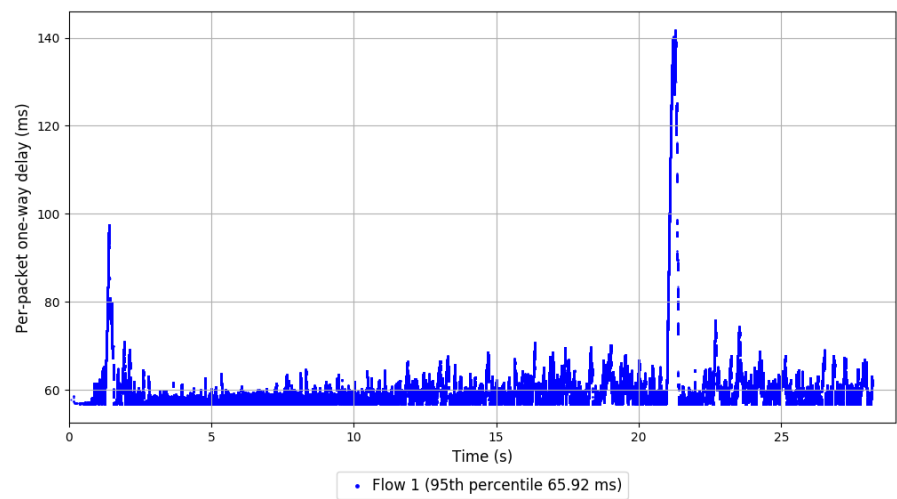
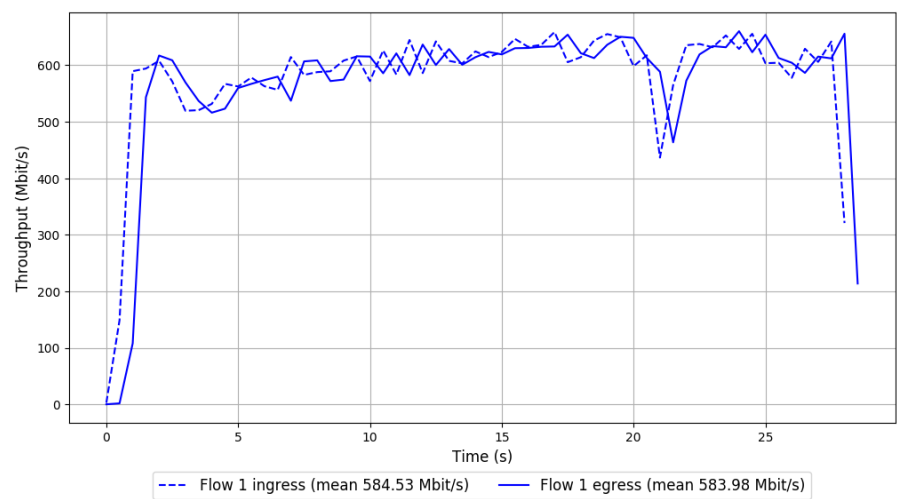
-- Flow 1:

Average throughput: 583.98 Mbit/s

95th percentile per-packet one-way delay: 65.916 ms

Loss rate: 0.50%

Run 1: Report of Indigo-MusesC3 — Data Link

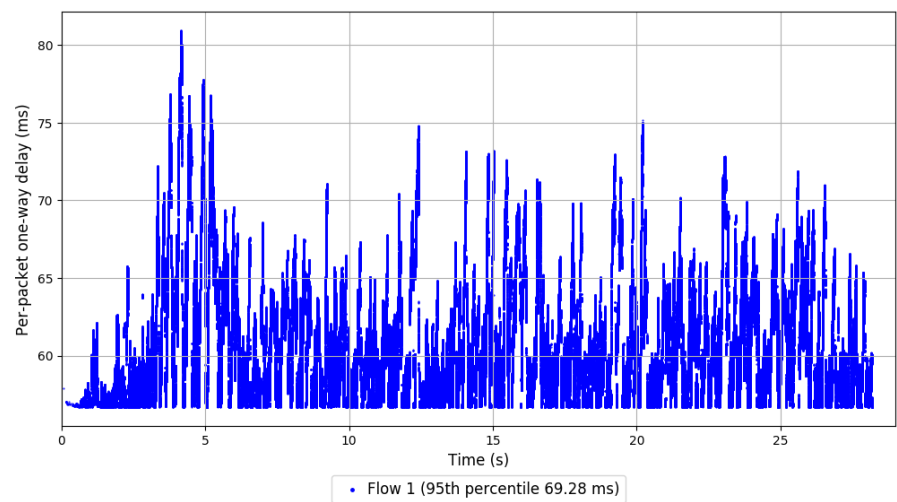
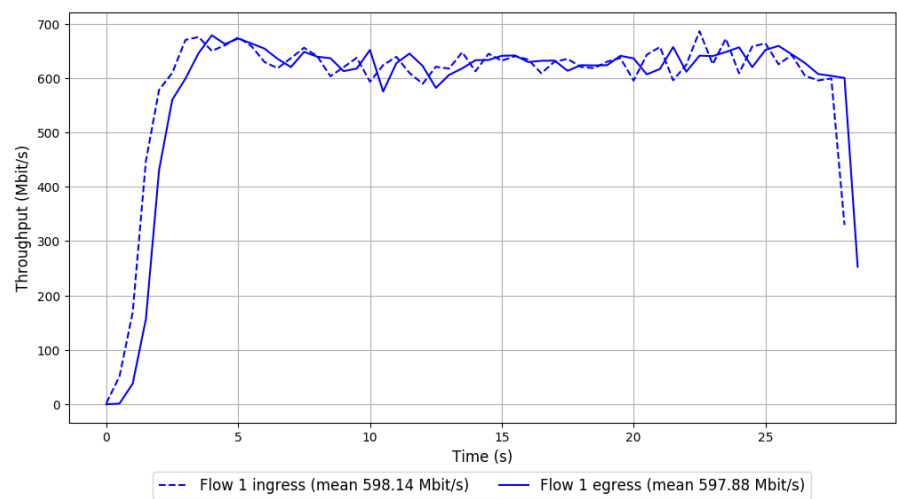


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-11-24 21:57:00  
End at: 2019-11-24 21:57:30  
Local clock offset: -0.065 ms  
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2019-11-25 01:20:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 597.88 Mbit/s  
95th percentile per-packet one-way delay: 69.285 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 597.88 Mbit/s  
95th percentile per-packet one-way delay: 69.285 ms  
Loss rate: 0.44%

Run 2: Report of Indigo-MusesC3 — Data Link

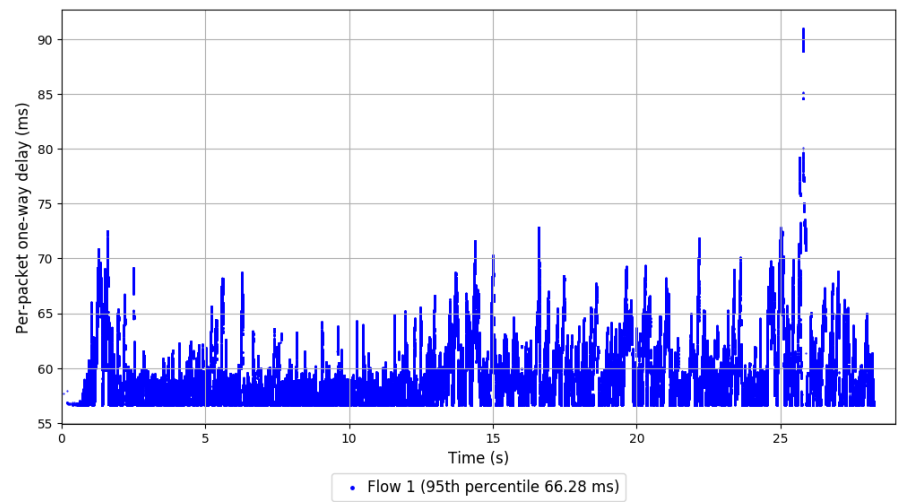
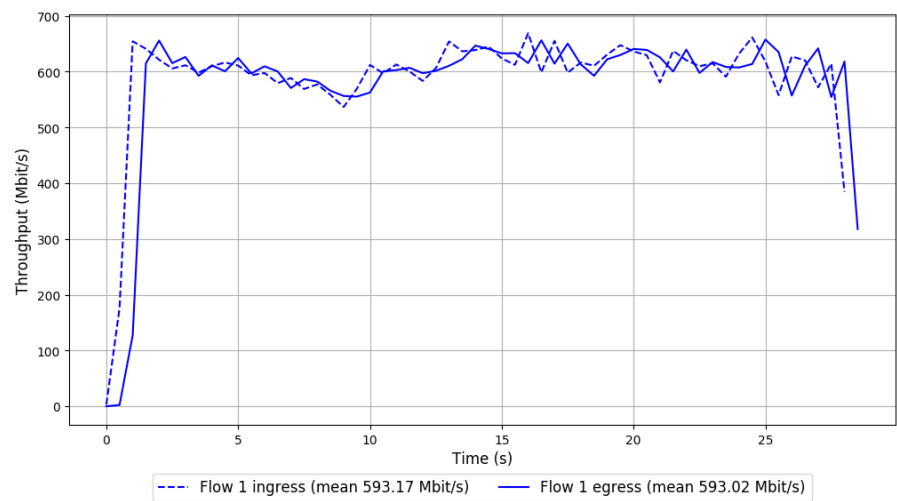


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-11-24 22:32:19  
End at: 2019-11-24 22:32:49  
Local clock offset: -0.022 ms  
Remote clock offset: 0.165 ms

# Below is generated by plot.py at 2019-11-25 01:20:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 593.02 Mbit/s  
95th percentile per-packet one-way delay: 66.281 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 593.02 Mbit/s  
95th percentile per-packet one-way delay: 66.281 ms  
Loss rate: 0.44%

Run 3: Report of Indigo-MusesC3 — Data Link

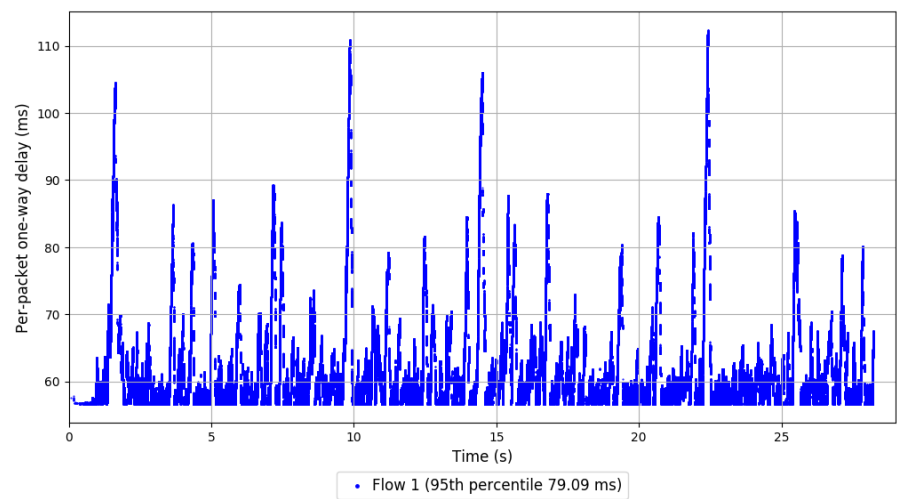
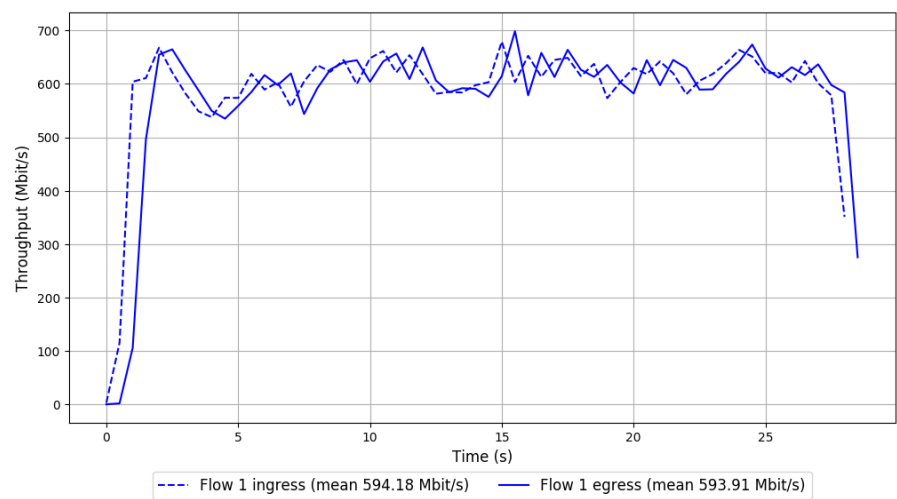


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-11-24 23:07:22  
End at: 2019-11-24 23:07:53  
Local clock offset: -0.078 ms  
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2019-11-25 01:21:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 593.91 Mbit/s  
95th percentile per-packet one-way delay: 79.095 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 593.91 Mbit/s  
95th percentile per-packet one-way delay: 79.095 ms  
Loss rate: 0.45%

Run 4: Report of Indigo-MusesC3 — Data Link

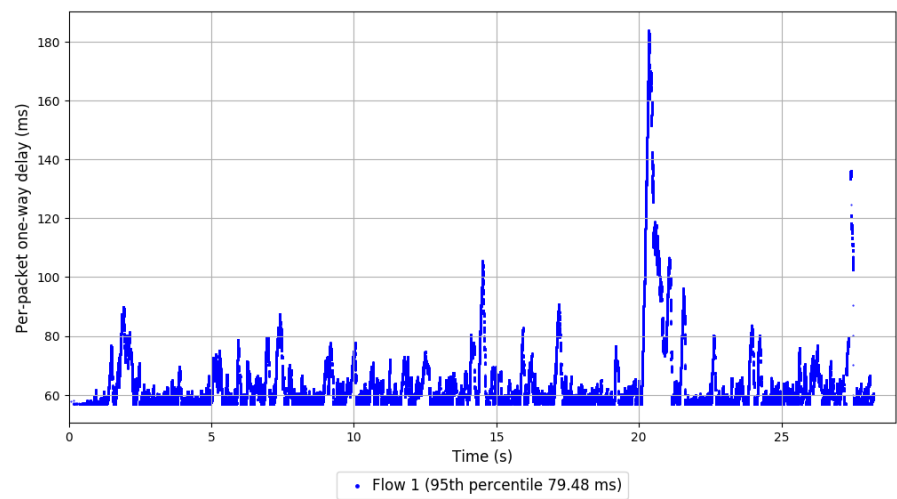
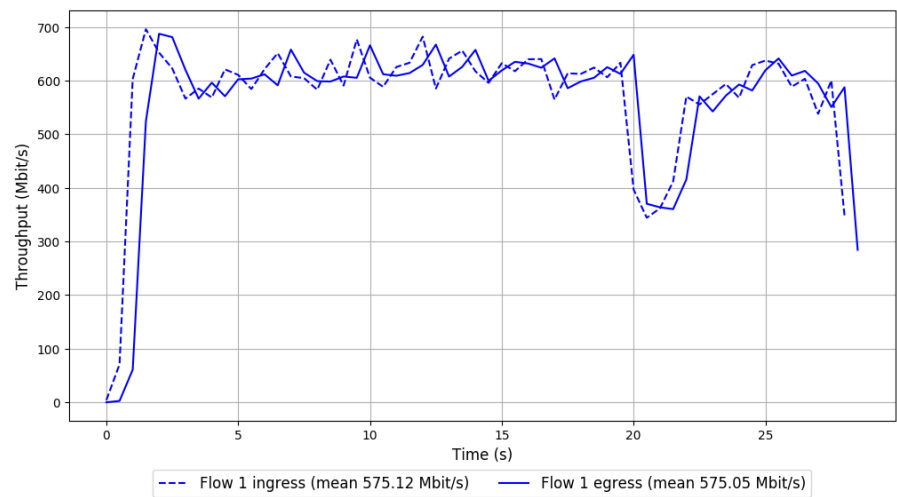


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-11-24 23:42:47  
End at: 2019-11-24 23:43:17  
Local clock offset: -0.131 ms  
Remote clock offset: -0.151 ms

# Below is generated by plot.py at 2019-11-25 01:22:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 575.05 Mbit/s  
95th percentile per-packet one-way delay: 79.478 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 575.05 Mbit/s  
95th percentile per-packet one-way delay: 79.478 ms  
Loss rate: 0.42%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-11-24 21:45:08

End at: 2019-11-24 21:45:38

Local clock offset: 0.235 ms

Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2019-11-25 01:24:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 609.69 Mbit/s

95th percentile per-packet one-way delay: 80.301 ms

Loss rate: 0.52%

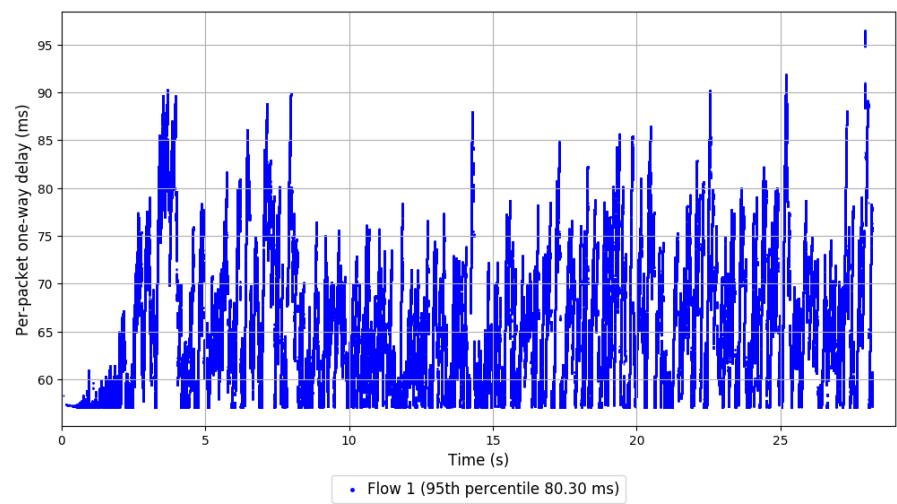
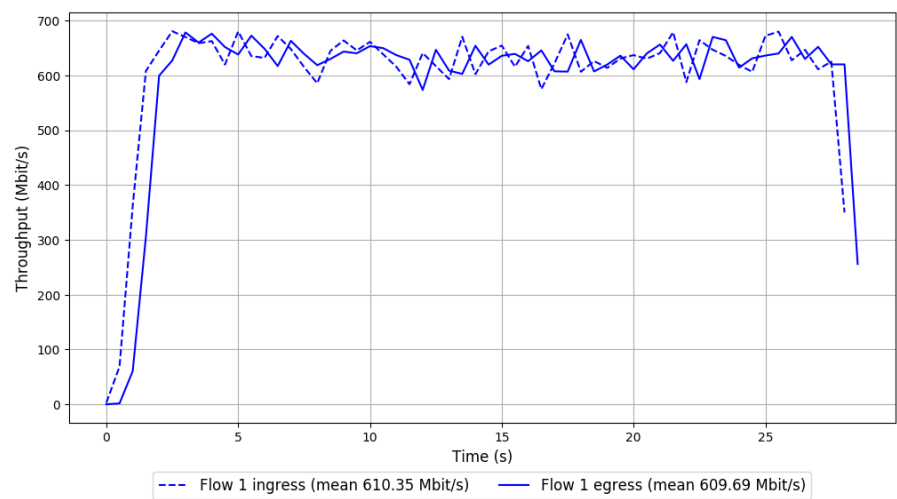
-- Flow 1:

Average throughput: 609.69 Mbit/s

95th percentile per-packet one-way delay: 80.301 ms

Loss rate: 0.52%

Run 1: Report of Indigo-MusesC5 — Data Link

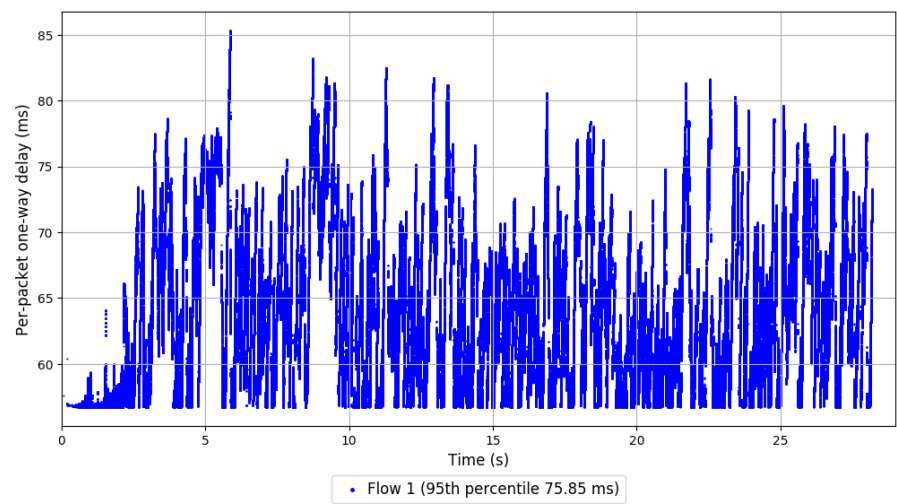
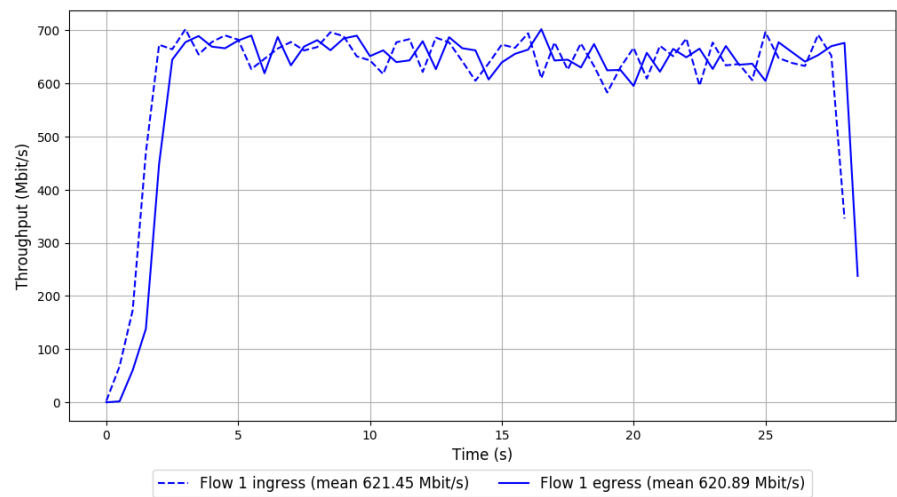


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-11-24 22:20:13  
End at: 2019-11-24 22:20:43  
Local clock offset: -0.038 ms  
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2019-11-25 01:26:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 620.89 Mbit/s  
95th percentile per-packet one-way delay: 75.851 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 620.89 Mbit/s  
95th percentile per-packet one-way delay: 75.851 ms  
Loss rate: 0.49%

Run 2: Report of Indigo-MusesC5 — Data Link

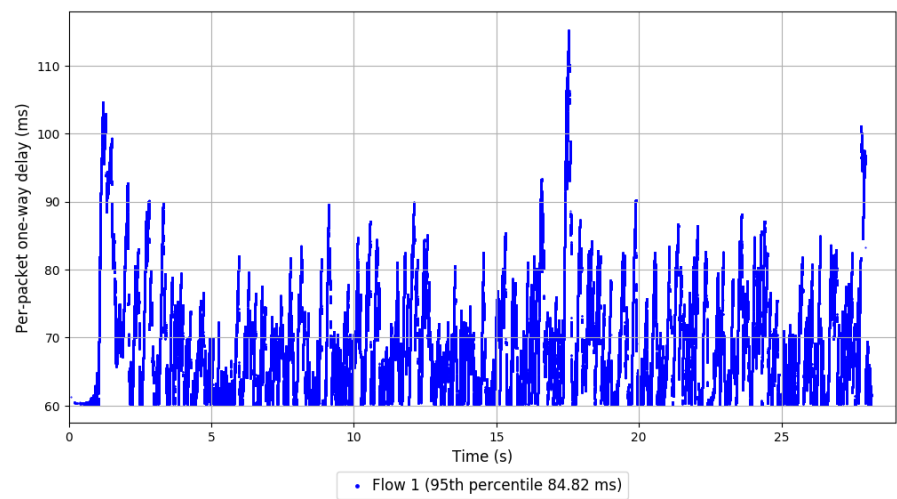
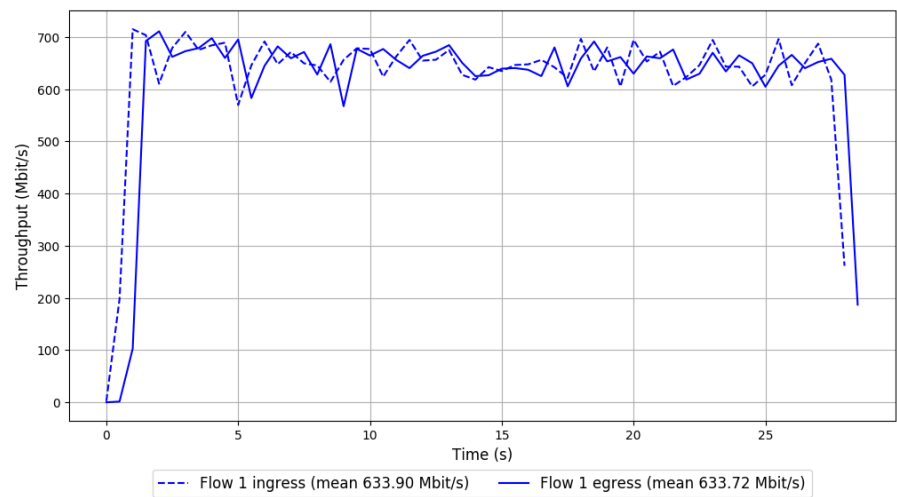


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-11-24 22:55:21  
End at: 2019-11-24 22:55:51  
Local clock offset: -0.079 ms  
Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2019-11-25 01:27:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 633.72 Mbit/s  
95th percentile per-packet one-way delay: 84.817 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 633.72 Mbit/s  
95th percentile per-packet one-way delay: 84.817 ms  
Loss rate: 0.45%

Run 3: Report of Indigo-MusesC5 — Data Link

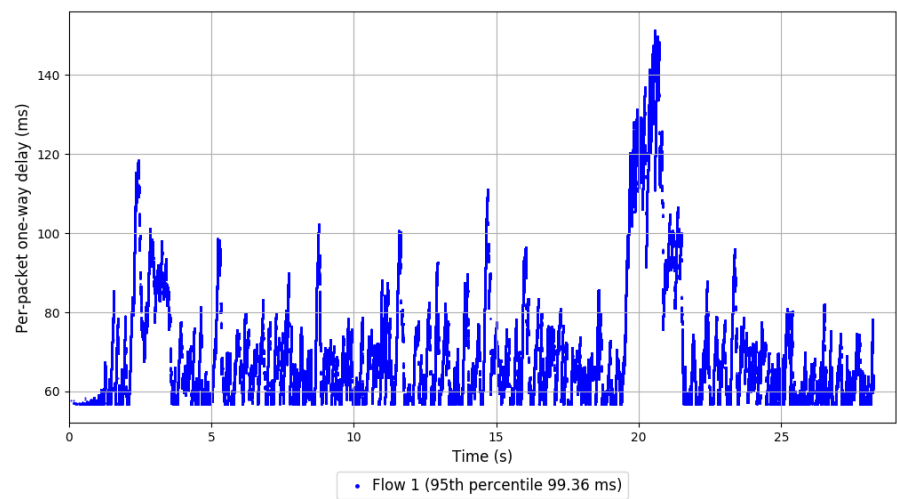
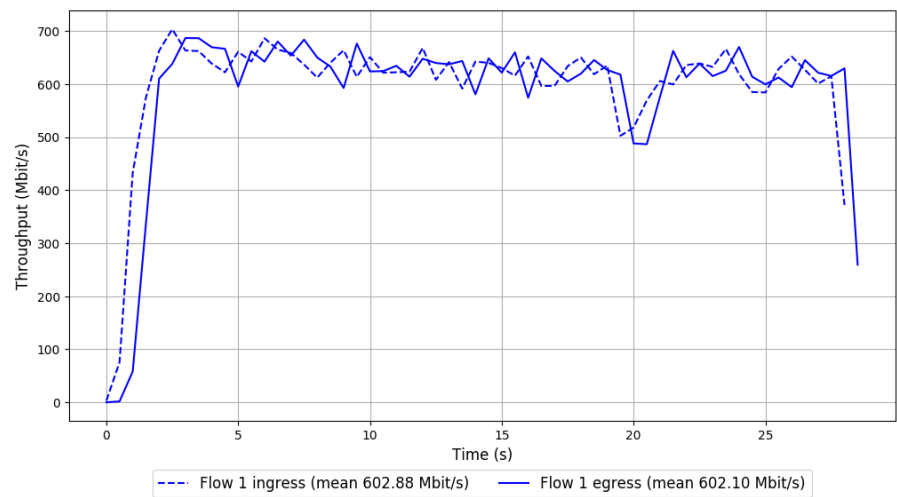


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-11-24 23:30:44  
End at: 2019-11-24 23:31:14  
Local clock offset: -0.024 ms  
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2019-11-25 01:28:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 602.10 Mbit/s  
95th percentile per-packet one-way delay: 99.355 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 602.10 Mbit/s  
95th percentile per-packet one-way delay: 99.355 ms  
Loss rate: 0.53%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-11-25 00:05:52

End at: 2019-11-25 00:06:22

Local clock offset: -0.051 ms

Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2019-11-25 01:31:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 620.36 Mbit/s

95th percentile per-packet one-way delay: 89.867 ms

Loss rate: 0.43%

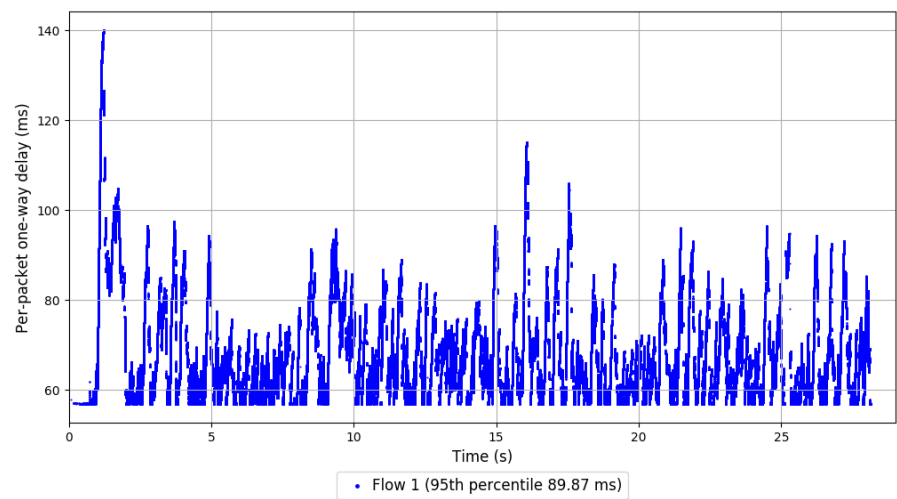
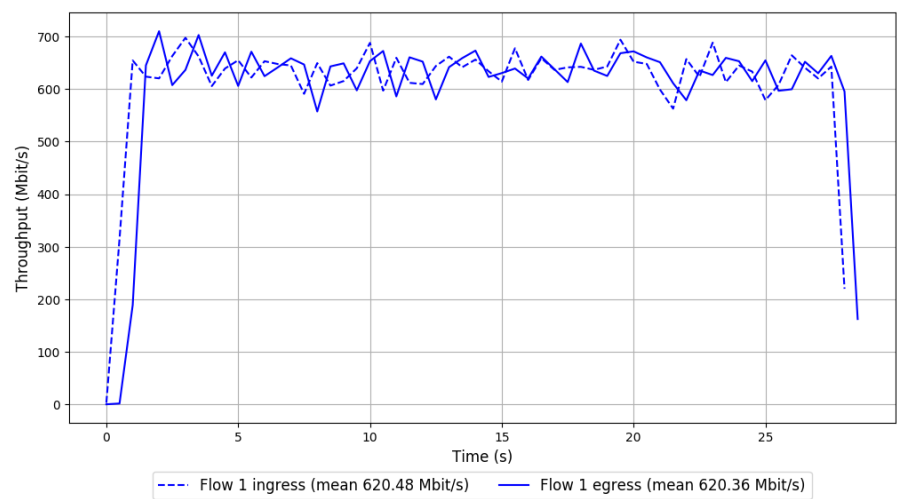
-- Flow 1:

Average throughput: 620.36 Mbit/s

95th percentile per-packet one-way delay: 89.867 ms

Loss rate: 0.43%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-11-24 21:20:39

End at: 2019-11-24 21:21:09

Local clock offset: -0.03 ms

Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2019-11-25 01:31:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 531.88 Mbit/s

95th percentile per-packet one-way delay: 91.005 ms

Loss rate: 0.39%

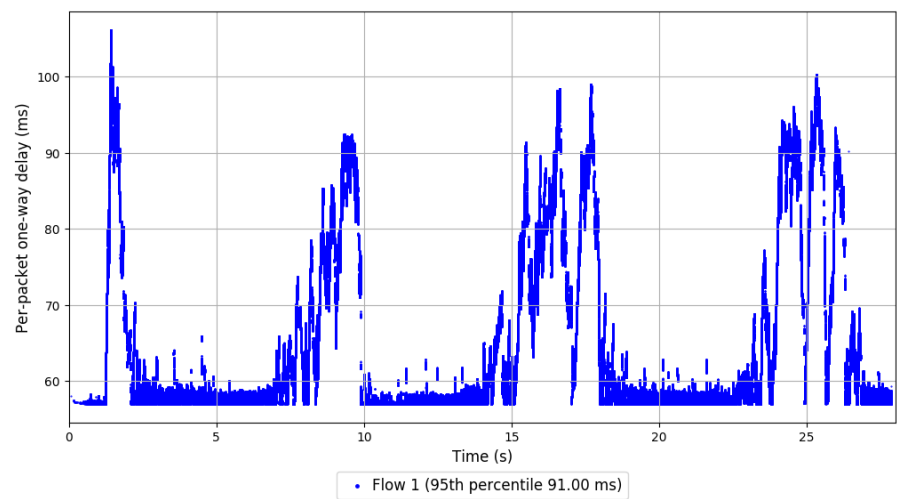
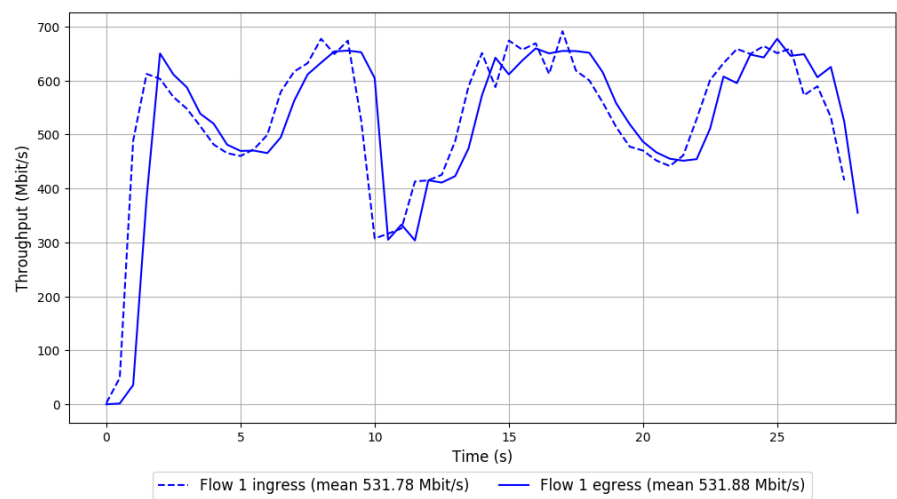
-- Flow 1:

Average throughput: 531.88 Mbit/s

95th percentile per-packet one-way delay: 91.005 ms

Loss rate: 0.39%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-11-24 21:55:28

End at: 2019-11-24 21:55:58

Local clock offset: -0.092 ms

Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2019-11-25 01:31:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 517.66 Mbit/s

95th percentile per-packet one-way delay: 98.897 ms

Loss rate: 0.45%

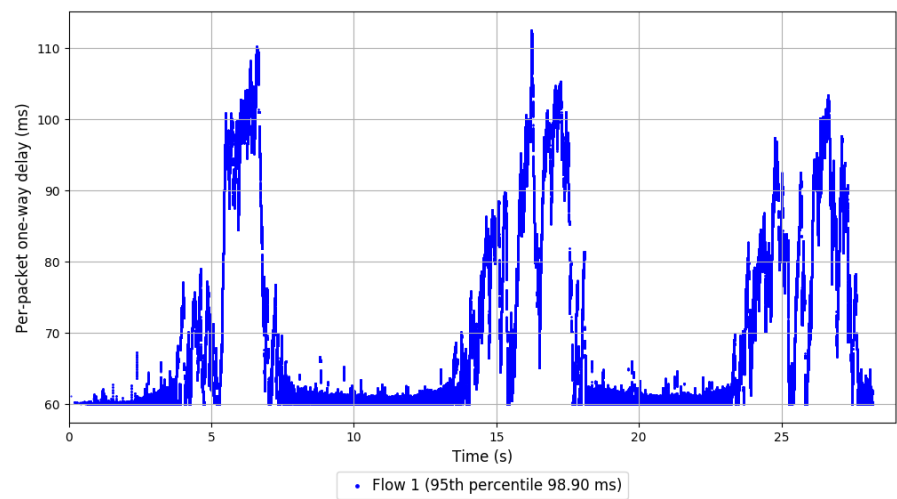
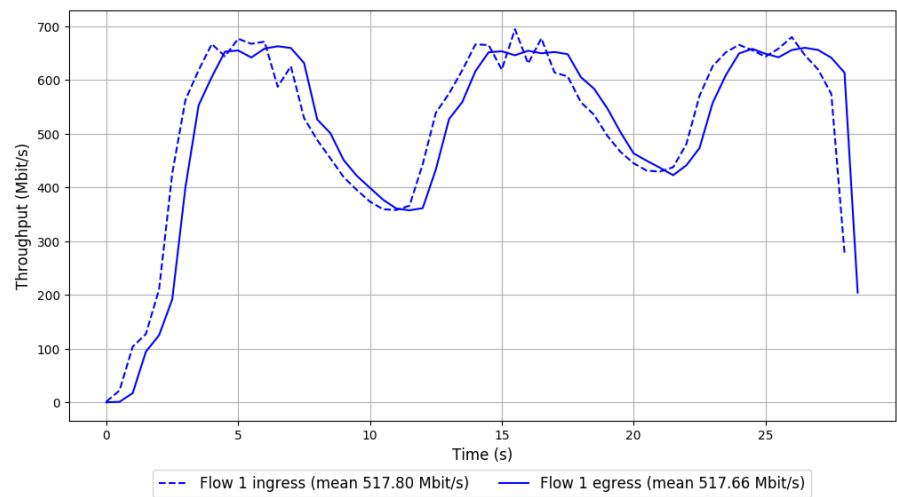
-- Flow 1:

Average throughput: 517.66 Mbit/s

95th percentile per-packet one-way delay: 98.897 ms

Loss rate: 0.45%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-11-24 22:30:45

End at: 2019-11-24 22:31:15

Local clock offset: -0.046 ms

Remote clock offset: 0.11 ms

# Below is generated by plot.py at 2019-11-25 01:33:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 574.33 Mbit/s

95th percentile per-packet one-way delay: 85.653 ms

Loss rate: 0.57%

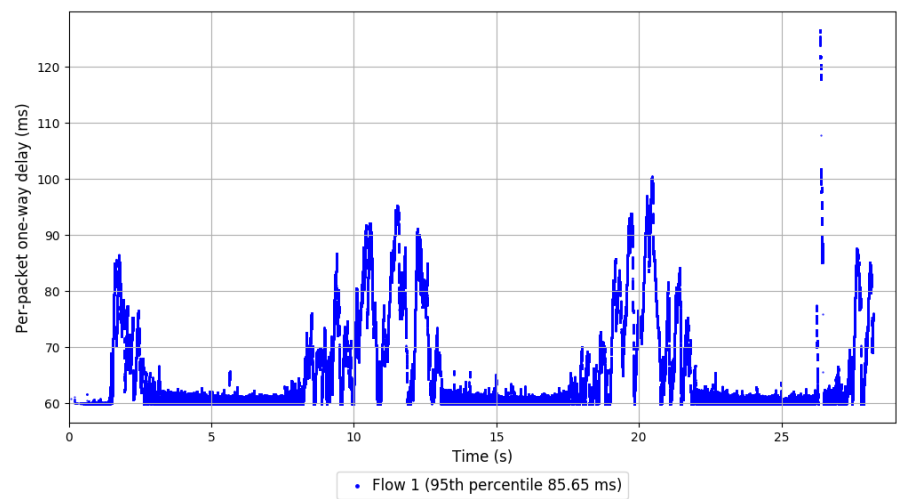
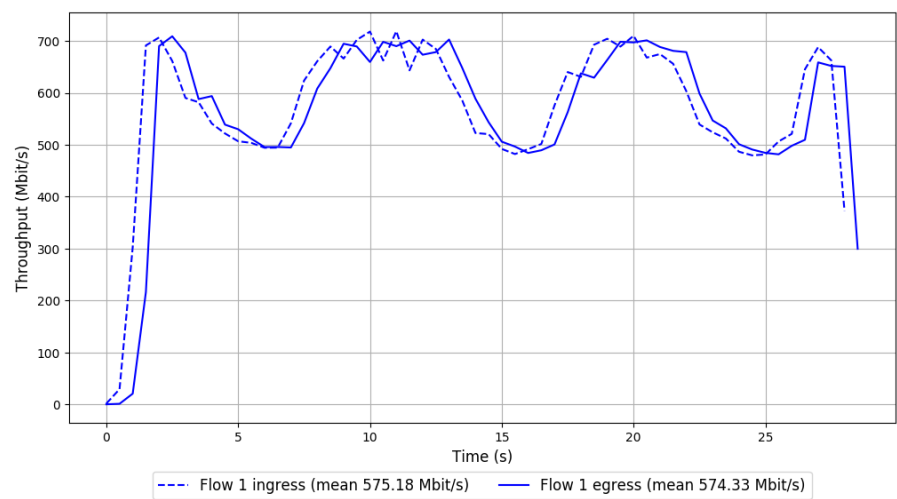
-- Flow 1:

Average throughput: 574.33 Mbit/s

95th percentile per-packet one-way delay: 85.653 ms

Loss rate: 0.57%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-11-24 23:05:49

End at: 2019-11-24 23:06:19

Local clock offset: -0.072 ms

Remote clock offset: -0.183 ms

# Below is generated by plot.py at 2019-11-25 01:33:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 559.11 Mbit/s

95th percentile per-packet one-way delay: 98.111 ms

Loss rate: 0.61%

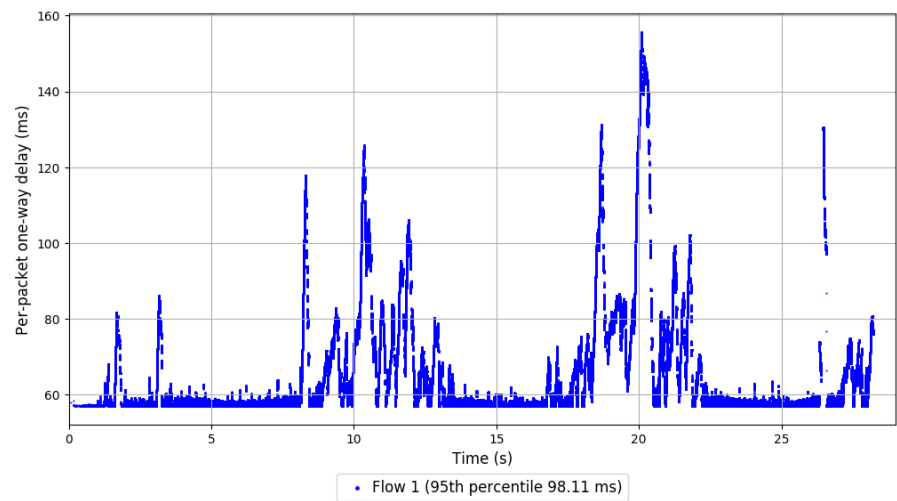
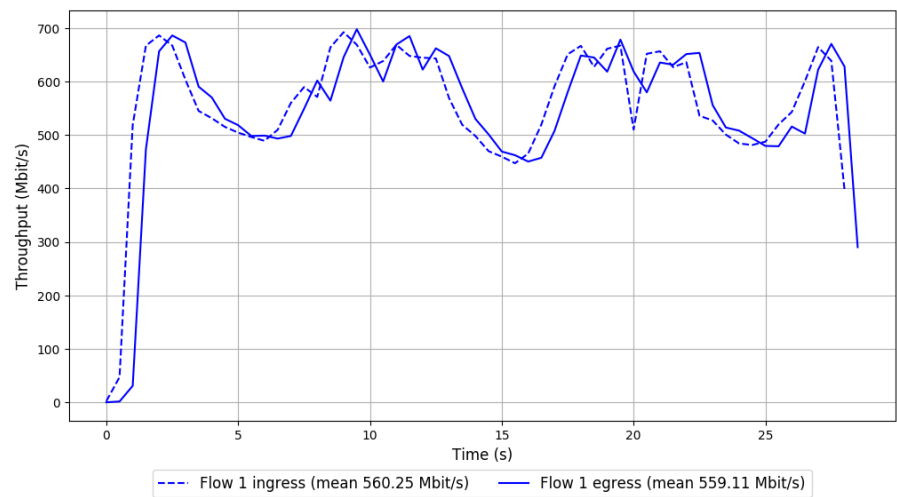
-- Flow 1:

Average throughput: 559.11 Mbit/s

95th percentile per-packet one-way delay: 98.111 ms

Loss rate: 0.61%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-11-24 23:41:15

End at: 2019-11-24 23:41:45

Local clock offset: -0.068 ms

Remote clock offset: 0.048 ms

# Below is generated by plot.py at 2019-11-25 01:36:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 529.38 Mbit/s

95th percentile per-packet one-way delay: 91.703 ms

Loss rate: 0.37%

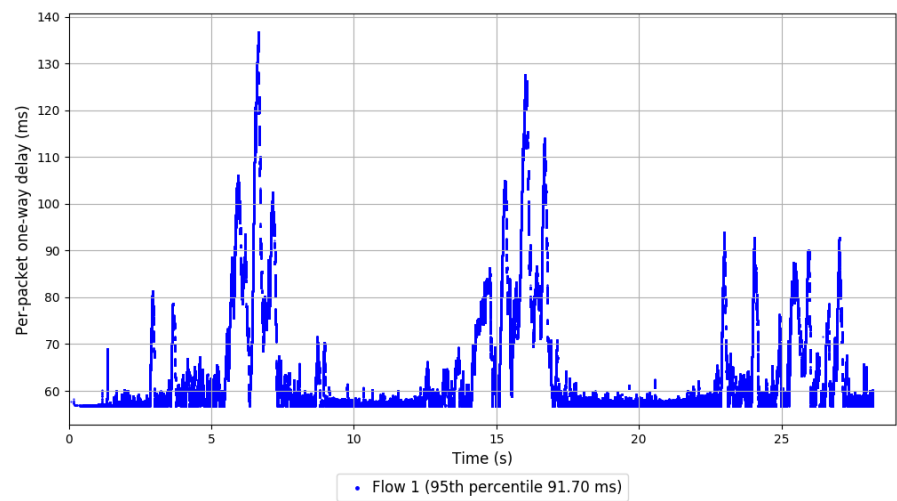
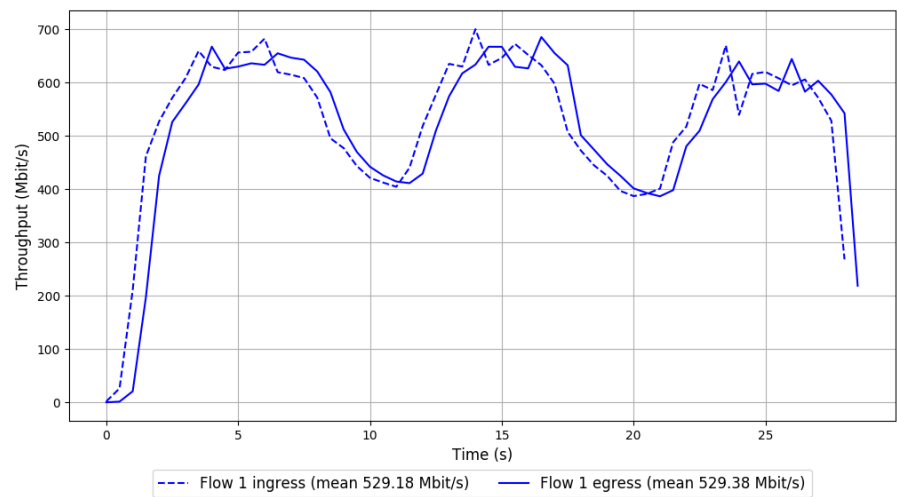
-- Flow 1:

Average throughput: 529.38 Mbit/s

95th percentile per-packet one-way delay: 91.703 ms

Loss rate: 0.37%

Run 5: Report of Indigo-MusesD — Data Link

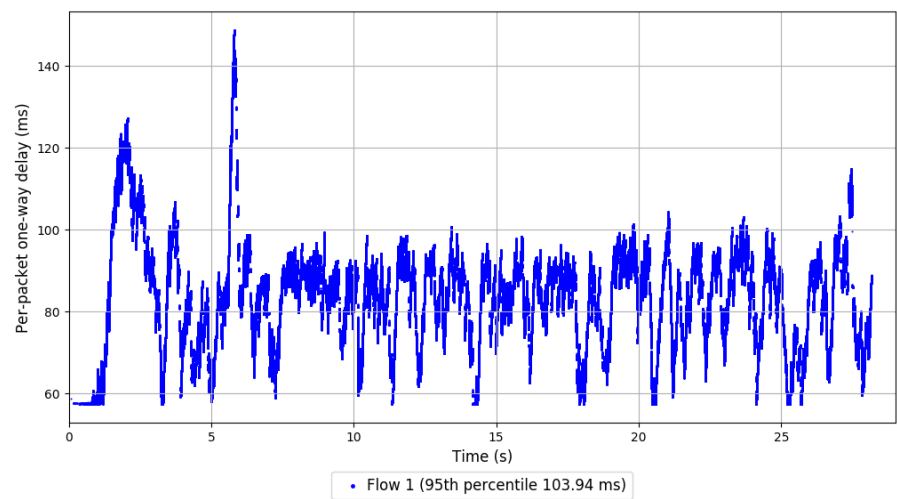
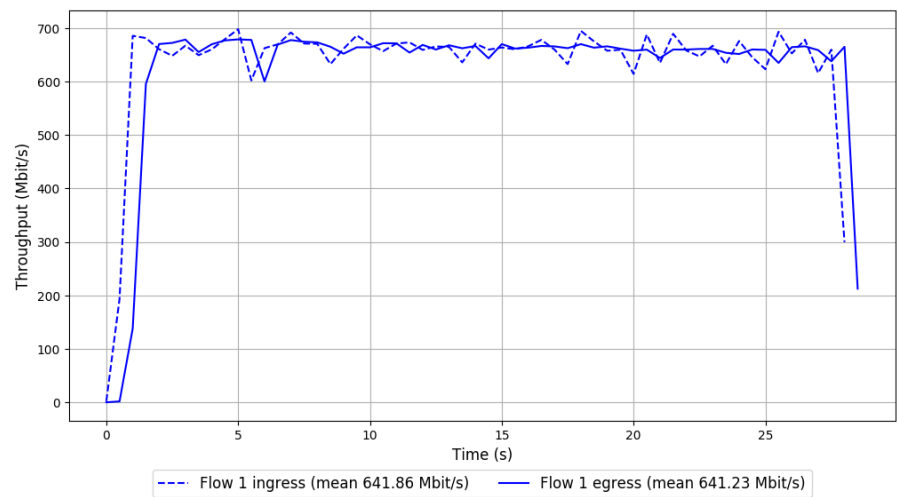


```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-11-24 21:33:37
End at: 2019-11-24 21:34:07
Local clock offset: 0.334 ms
Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2019-11-25 01:39:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 641.23 Mbit/s
95th percentile per-packet one-way delay: 103.942 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 641.23 Mbit/s
95th percentile per-packet one-way delay: 103.942 ms
Loss rate: 0.51%
```

Run 1: Report of Indigo-MusesT — Data Link

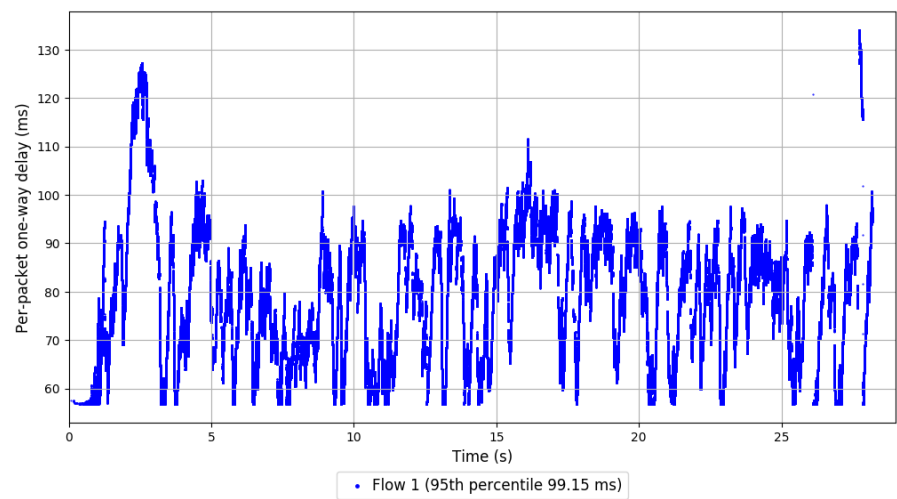
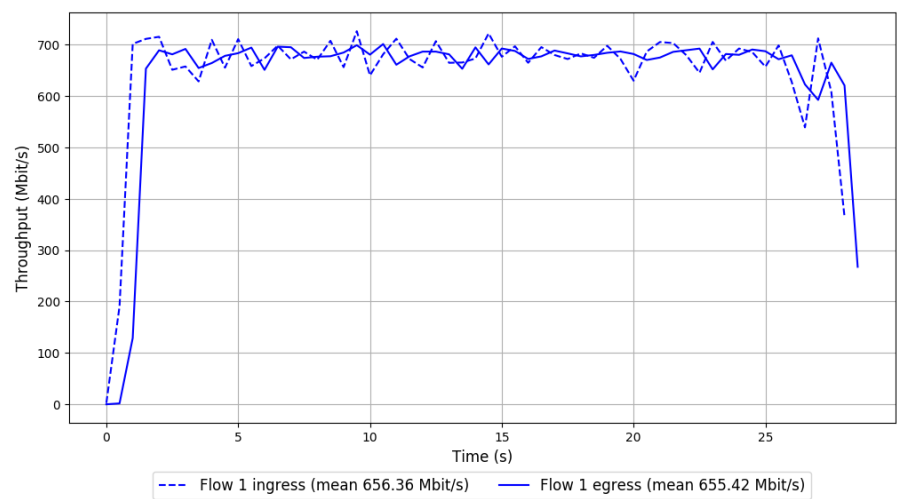


Run 2: Statistics of Indigo-MusesT

Start at: 2019-11-24 22:08:30  
End at: 2019-11-24 22:09:00  
Local clock offset: -0.075 ms  
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-11-25 01:40:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 655.42 Mbit/s  
95th percentile per-packet one-way delay: 99.153 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 655.42 Mbit/s  
95th percentile per-packet one-way delay: 99.153 ms  
Loss rate: 0.55%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-11-24 22:43:48

End at: 2019-11-24 22:44:18

Local clock offset: -0.003 ms

Remote clock offset: 0.121 ms

# Below is generated by plot.py at 2019-11-25 01:41:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 658.86 Mbit/s

95th percentile per-packet one-way delay: 104.071 ms

Loss rate: 0.51%

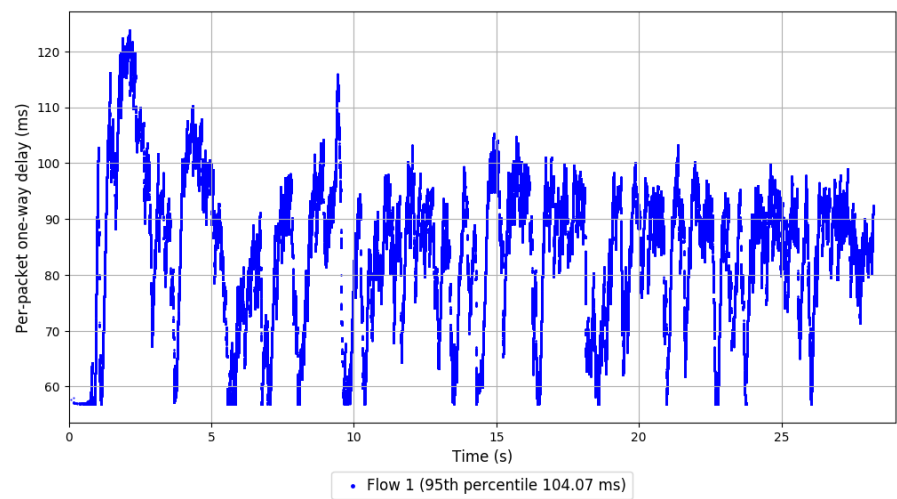
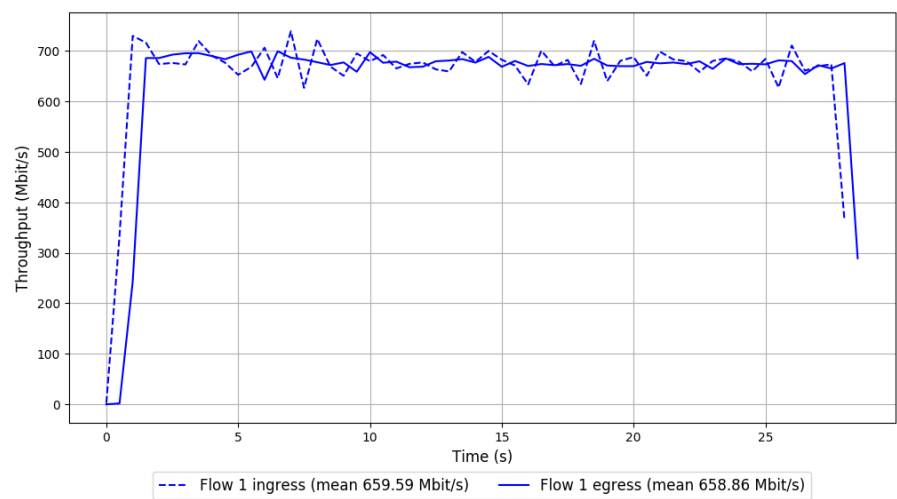
-- Flow 1:

Average throughput: 658.86 Mbit/s

95th percentile per-packet one-way delay: 104.071 ms

Loss rate: 0.51%

Run 3: Report of Indigo-MusesT — Data Link

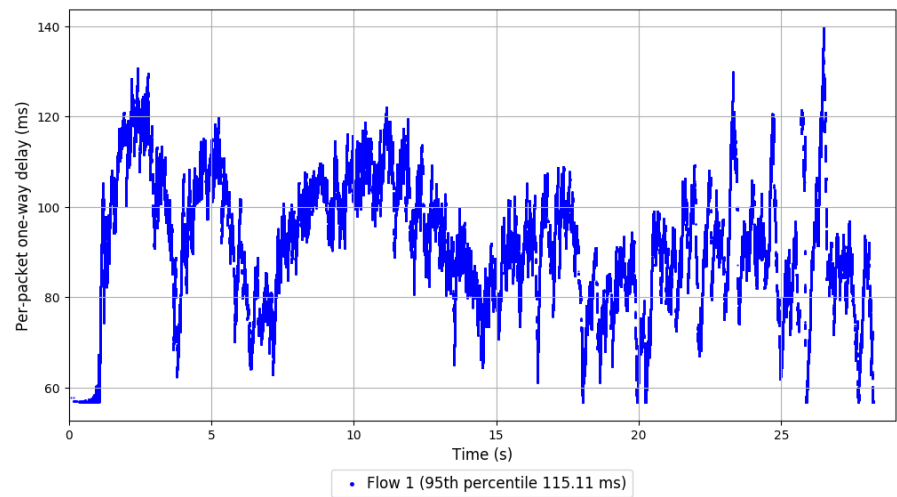
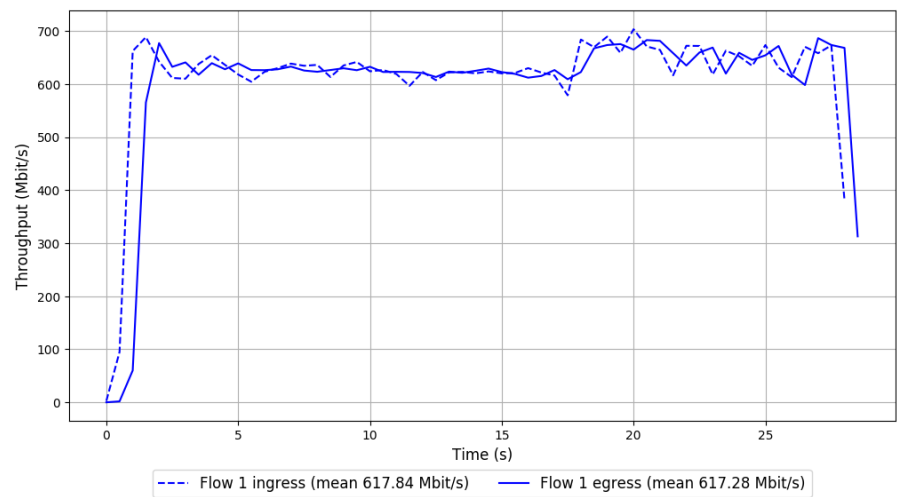


Run 4: Statistics of Indigo-MusesT

Start at: 2019-11-24 23:18:57  
End at: 2019-11-24 23:19:27  
Local clock offset: -0.064 ms  
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2019-11-25 01:41:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 617.28 Mbit/s  
95th percentile per-packet one-way delay: 115.106 ms  
Loss rate: 0.50%  
-- Flow 1:  
Average throughput: 617.28 Mbit/s  
95th percentile per-packet one-way delay: 115.106 ms  
Loss rate: 0.50%

Run 4: Report of Indigo-MusesT — Data Link

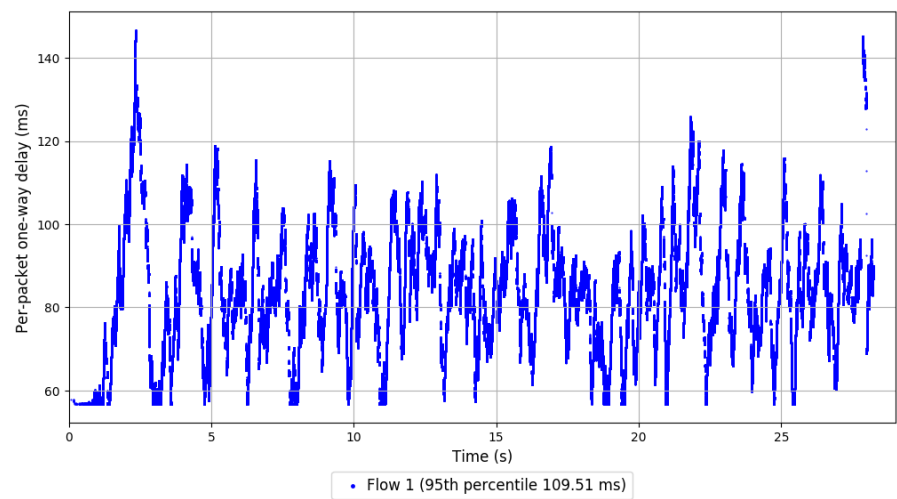
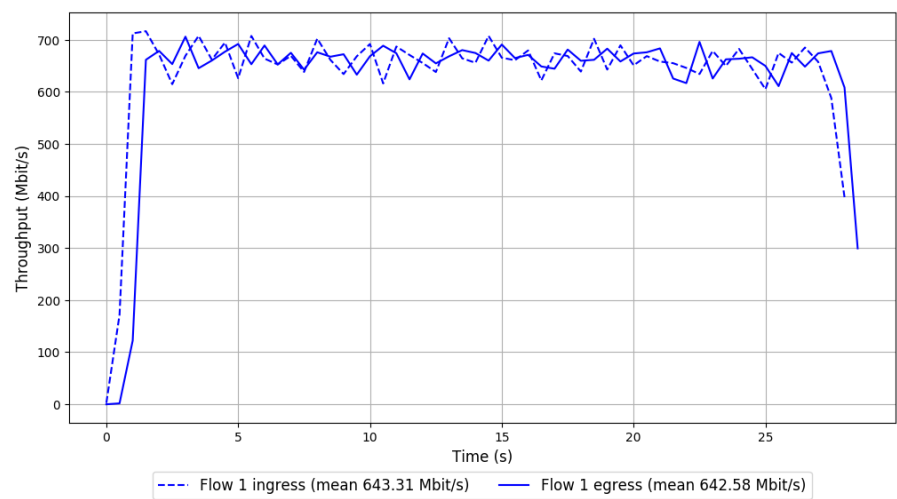


Run 5: Statistics of Indigo-MusesT

Start at: 2019-11-24 23:54:17  
End at: 2019-11-24 23:54:47  
Local clock offset: -0.104 ms  
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2019-11-25 01:42:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 642.58 Mbit/s  
95th percentile per-packet one-way delay: 109.513 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 642.58 Mbit/s  
95th percentile per-packet one-way delay: 109.513 ms  
Loss rate: 0.52%

Run 5: Report of Indigo-MusesT — Data Link

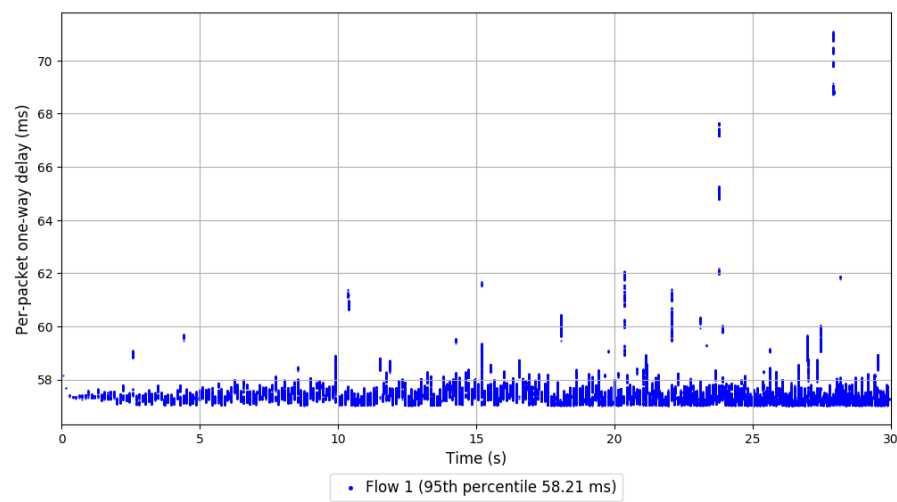
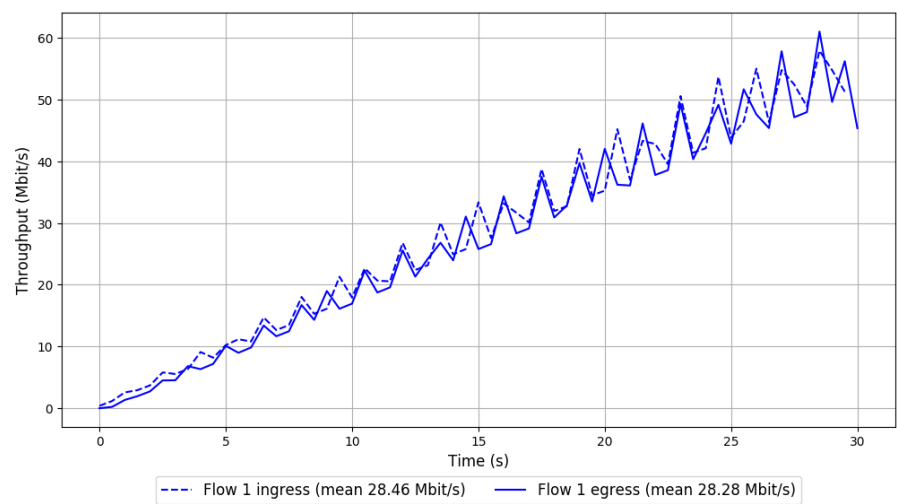


```
Run 1: Statistics of LEDBAT

Start at: 2019-11-24 21:24:54
End at: 2019-11-24 21:25:24
Local clock offset: 0.331 ms
Remote clock offset: 0.078 ms

# Below is generated by plot.py at 2019-11-25 01:42:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.28 Mbit/s
95th percentile per-packet one-way delay: 58.214 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 28.28 Mbit/s
95th percentile per-packet one-way delay: 58.214 ms
Loss rate: 0.75%
```

Run 1: Report of LEDBAT — Data Link

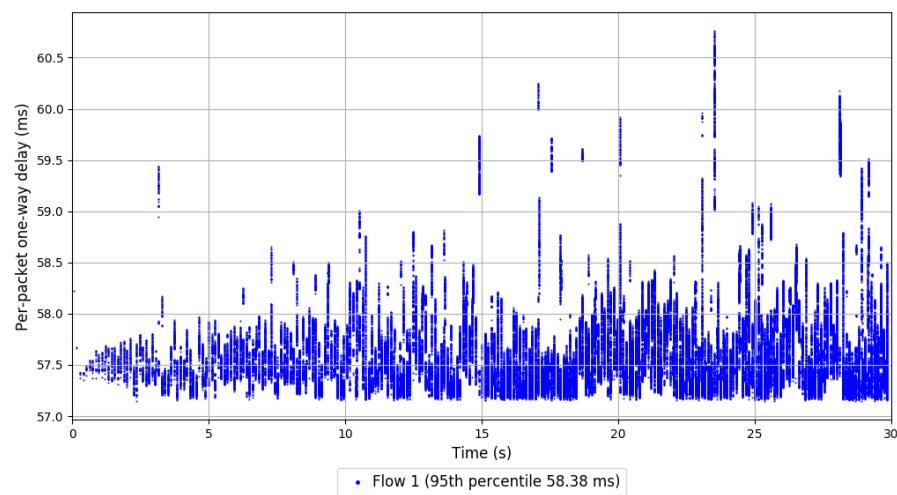
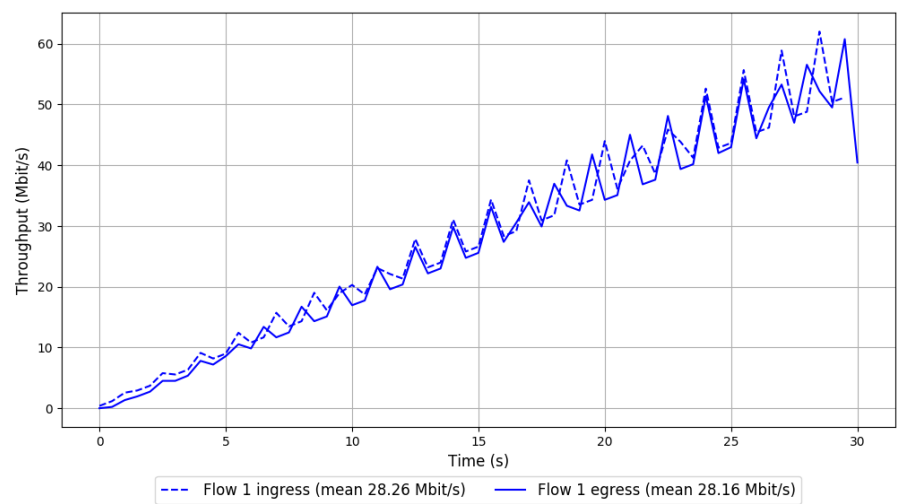


Run 2: Statistics of LEDBAT

Start at: 2019-11-24 21:59:43  
End at: 2019-11-24 22:00:13  
Local clock offset: -0.078 ms  
Remote clock offset: -0.212 ms

# Below is generated by plot.py at 2019-11-25 01:42:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 28.16 Mbit/s  
95th percentile per-packet one-way delay: 58.379 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 28.16 Mbit/s  
95th percentile per-packet one-way delay: 58.379 ms  
Loss rate: 0.76%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-11-24 22:35:02

End at: 2019-11-24 22:35:32

Local clock offset: -0.05 ms

Remote clock offset: 0.128 ms

# Below is generated by plot.py at 2019-11-25 01:42:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 28.40 Mbit/s

95th percentile per-packet one-way delay: 57.617 ms

Loss rate: 0.76%

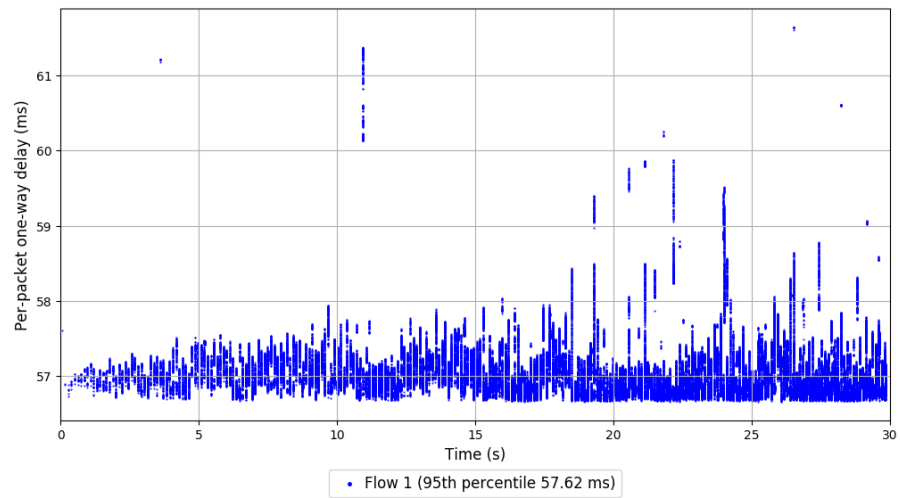
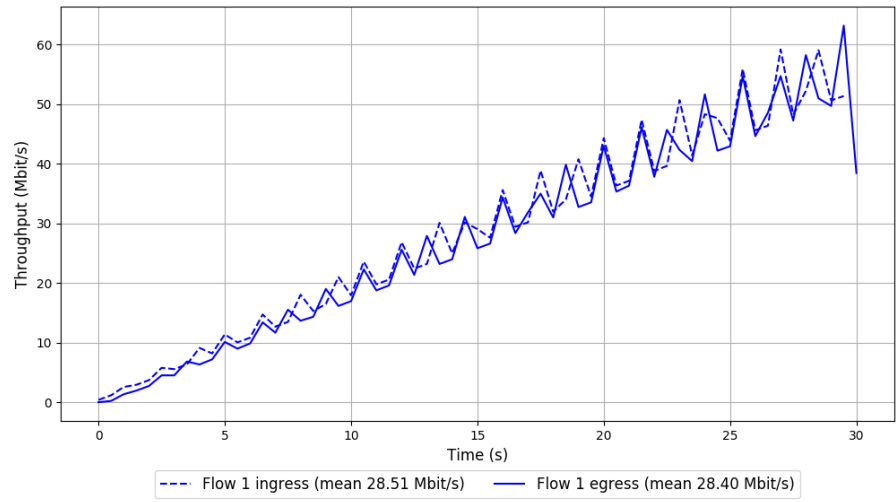
-- Flow 1:

Average throughput: 28.40 Mbit/s

95th percentile per-packet one-way delay: 57.617 ms

Loss rate: 0.76%

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



Run 4: Statistics of LEDBAT

Start at: 2019-11-24 23:10:05

End at: 2019-11-24 23:10:35

Local clock offset: -0.054 ms

Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2019-11-25 01:42:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 28.36 Mbit/s

95th percentile per-packet one-way delay: 57.740 ms

Loss rate: 0.76%

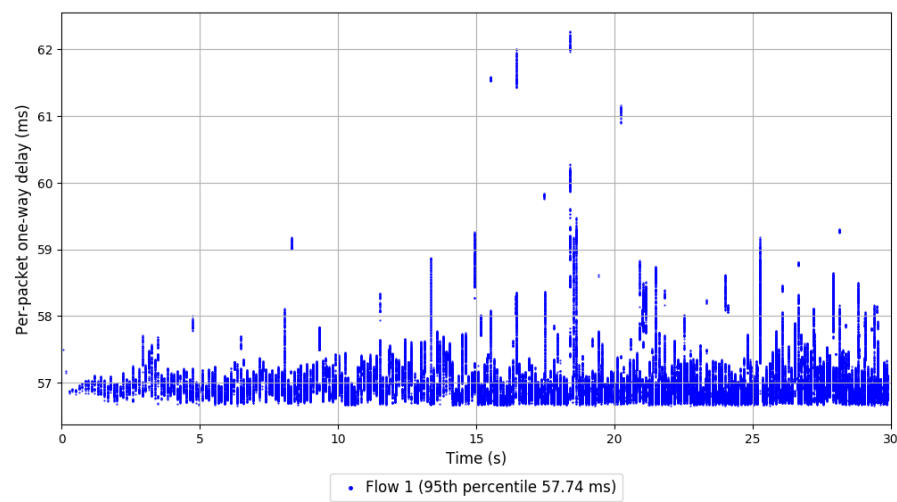
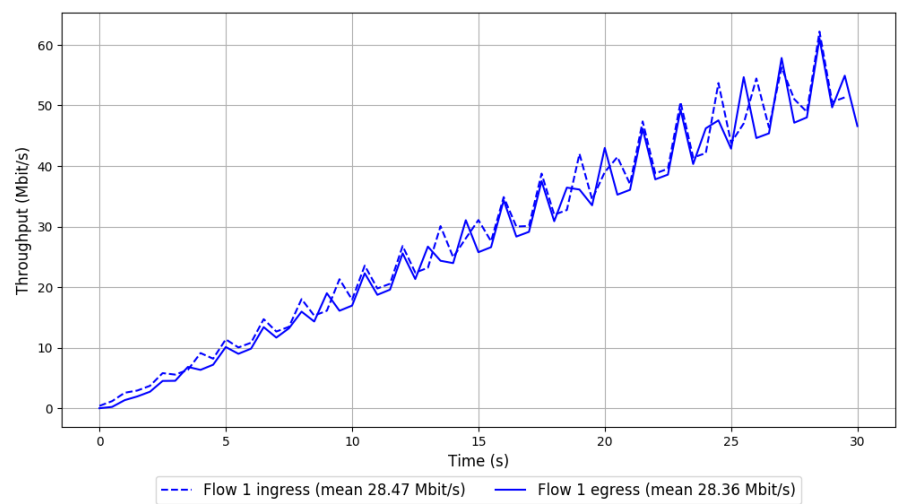
-- Flow 1:

Average throughput: 28.36 Mbit/s

95th percentile per-packet one-way delay: 57.740 ms

Loss rate: 0.76%

Run 4: Report of LEDBAT — Data Link

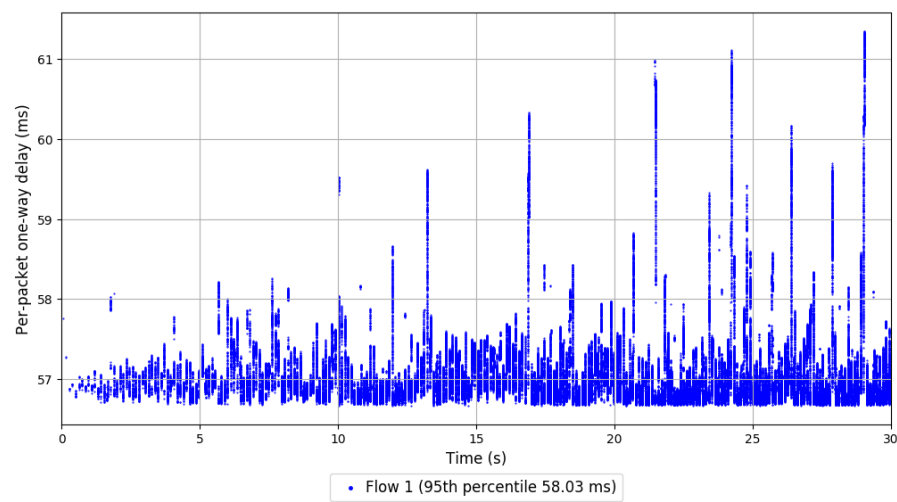
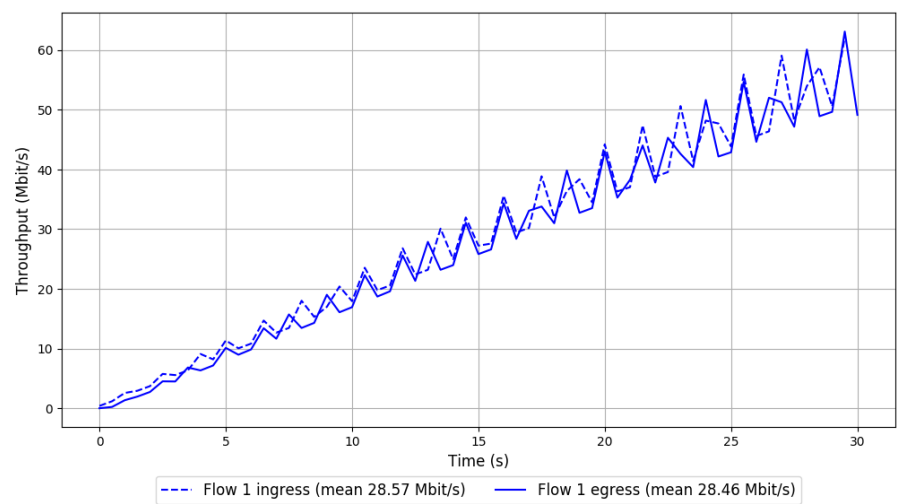


Run 5: Statistics of LEDBAT

Start at: 2019-11-24 23:45:29  
End at: 2019-11-24 23:45:59  
Local clock offset: -0.083 ms  
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2019-11-25 01:42:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 28.46 Mbit/s  
95th percentile per-packet one-way delay: 58.035 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 28.46 Mbit/s  
95th percentile per-packet one-way delay: 58.035 ms  
Loss rate: 0.75%

Run 5: Report of LEDBAT — Data Link

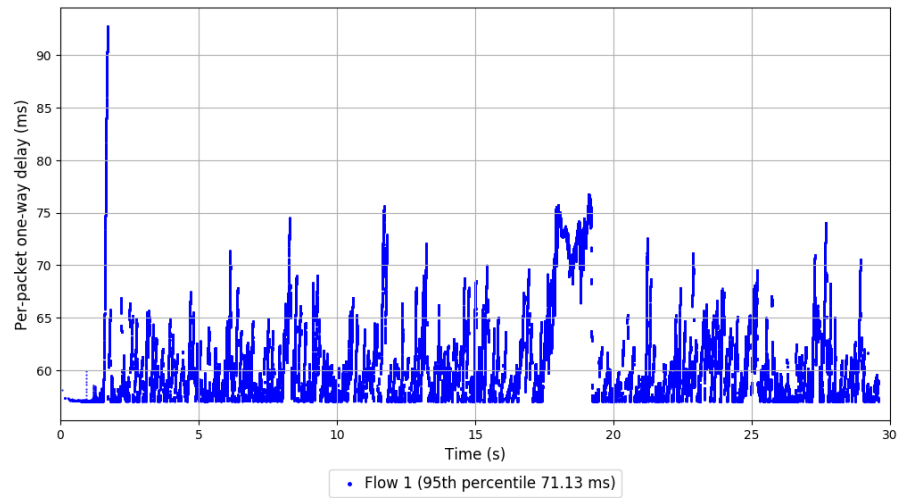
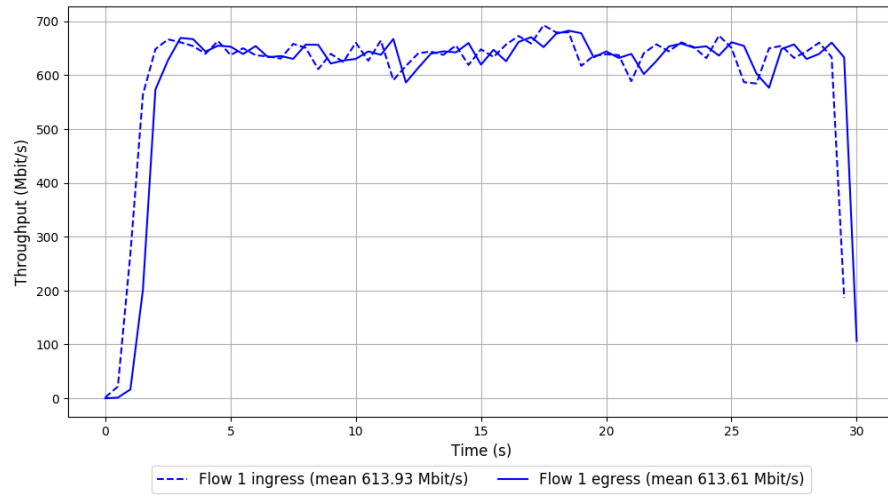


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-11-24 21:27:38
End at: 2019-11-24 21:28:08
Local clock offset: -0.024 ms
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2019-11-25 01:47:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 613.61 Mbit/s
95th percentile per-packet one-way delay: 71.129 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 613.61 Mbit/s
95th percentile per-packet one-way delay: 71.129 ms
Loss rate: 0.44%
```

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

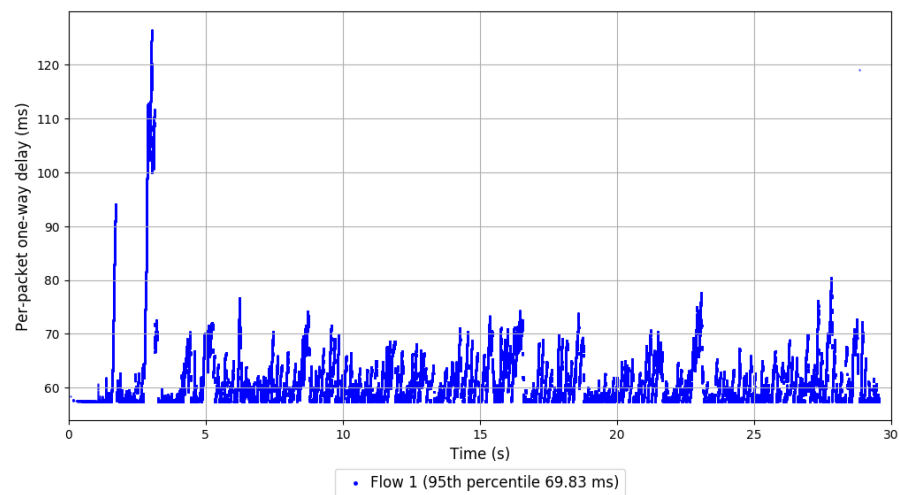
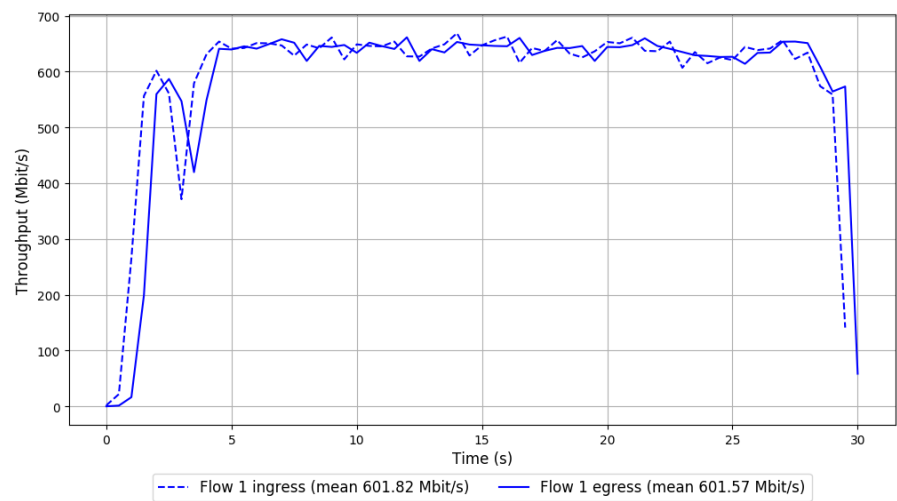


Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 22:02:36  
End at: 2019-11-24 22:03:06  
Local clock offset: 0.225 ms  
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2019-11-25 01:47:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 601.57 Mbit/s  
95th percentile per-packet one-way delay: 69.830 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 601.57 Mbit/s  
95th percentile per-packet one-way delay: 69.830 ms  
Loss rate: 0.43%

Run 2: Report of Muses\_DecisionTree — Data Link

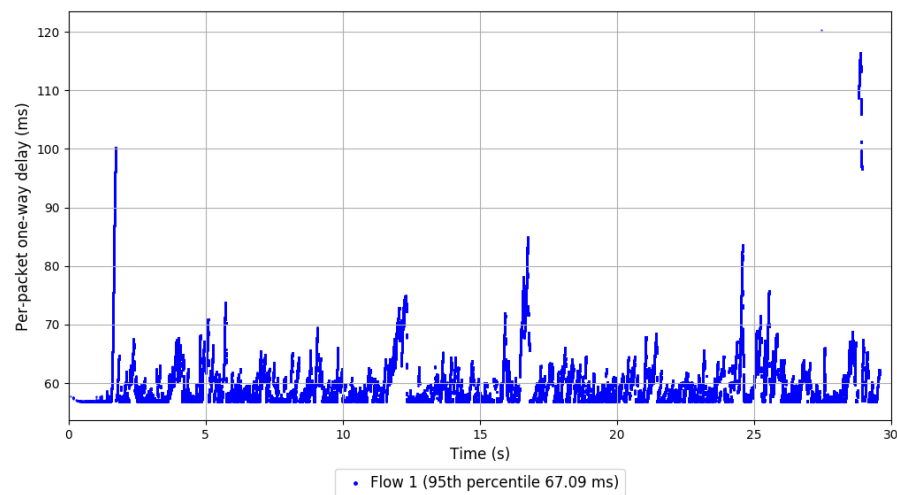
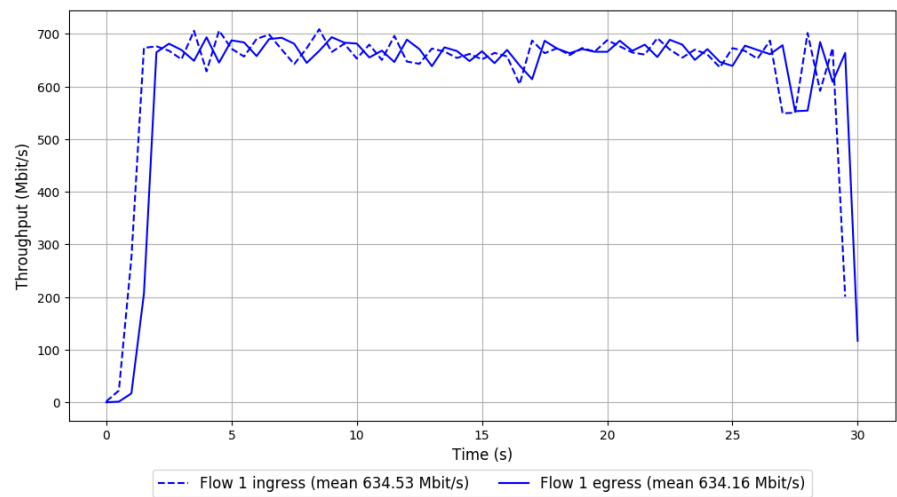


Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 22:37:53  
End at: 2019-11-24 22:38:23  
Local clock offset: 0.007 ms  
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2019-11-25 01:49:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 634.16 Mbit/s  
95th percentile per-packet one-way delay: 67.094 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 634.16 Mbit/s  
95th percentile per-packet one-way delay: 67.094 ms  
Loss rate: 0.45%

Run 3: Report of Muses\_DecisionTree — Data Link



Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 23:12:56

End at: 2019-11-24 23:13:26

Local clock offset: -0.033 ms

Remote clock offset: 0.06 ms

# Below is generated by plot.py at 2019-11-25 01:50:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 611.10 Mbit/s

95th percentile per-packet one-way delay: 78.889 ms

Loss rate: 0.42%

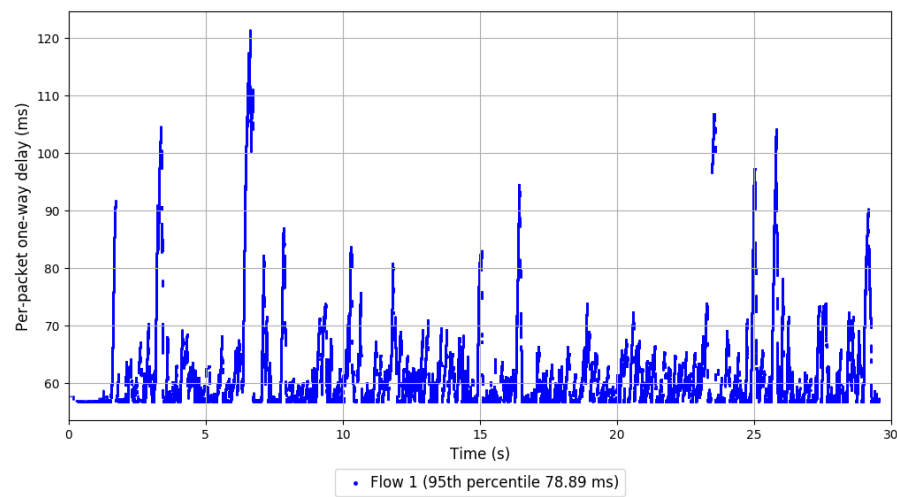
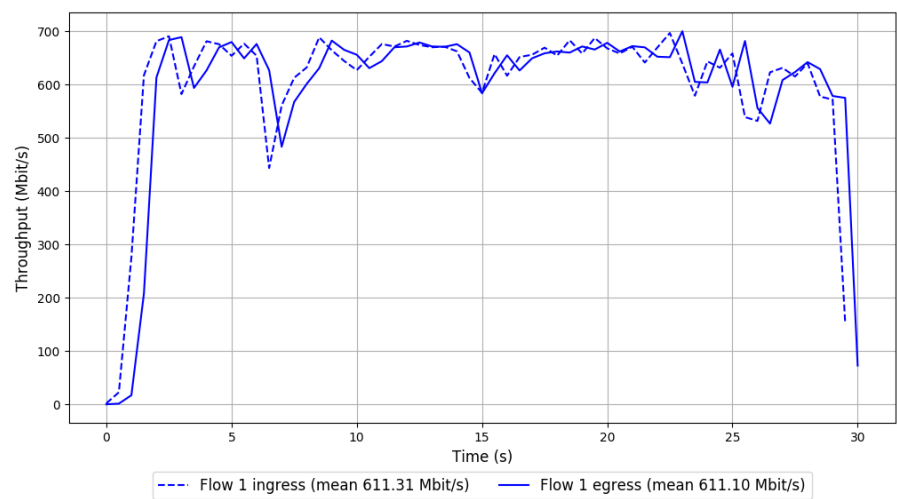
-- Flow 1:

Average throughput: 611.10 Mbit/s

95th percentile per-packet one-way delay: 78.889 ms

Loss rate: 0.42%

Run 4: Report of Muses\_DecisionTree — Data Link

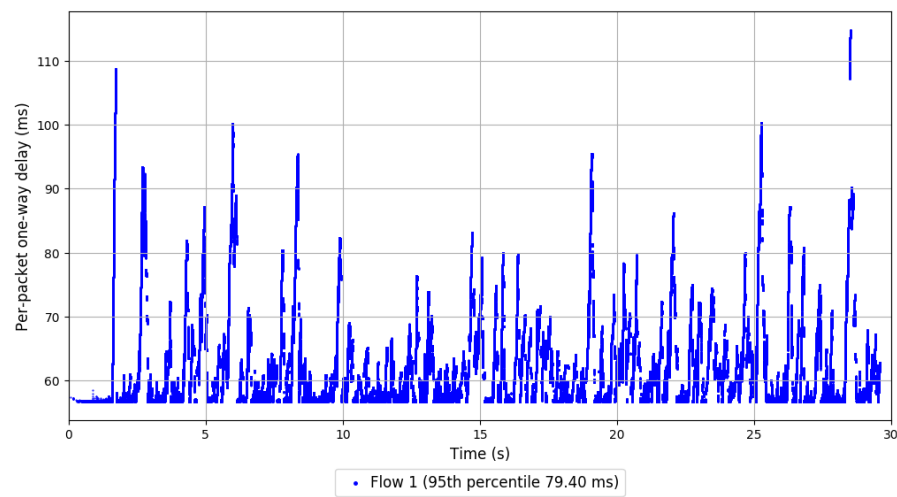
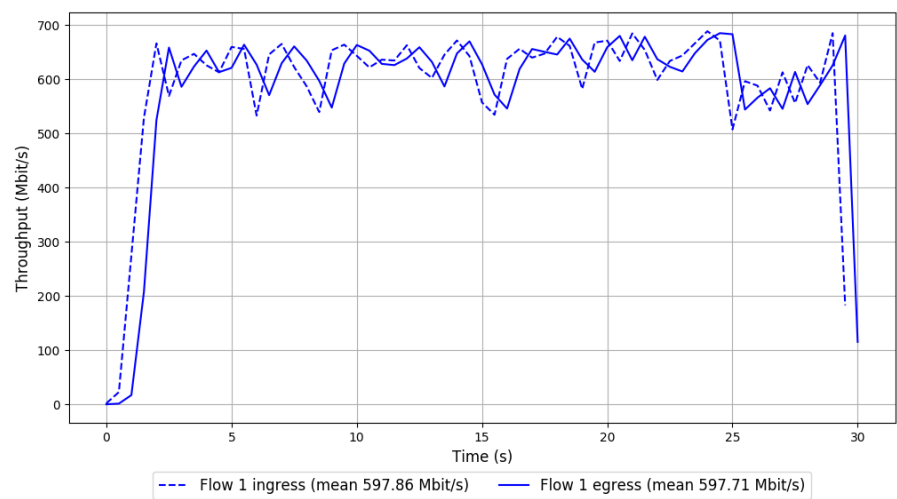


Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 23:48:21  
End at: 2019-11-24 23:48:51  
Local clock offset: -0.104 ms  
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2019-11-25 01:51:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 597.71 Mbit/s  
95th percentile per-packet one-way delay: 79.404 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 597.71 Mbit/s  
95th percentile per-packet one-way delay: 79.404 ms  
Loss rate: 0.41%

Run 5: Report of Muses\_DecisionTree — Data Link

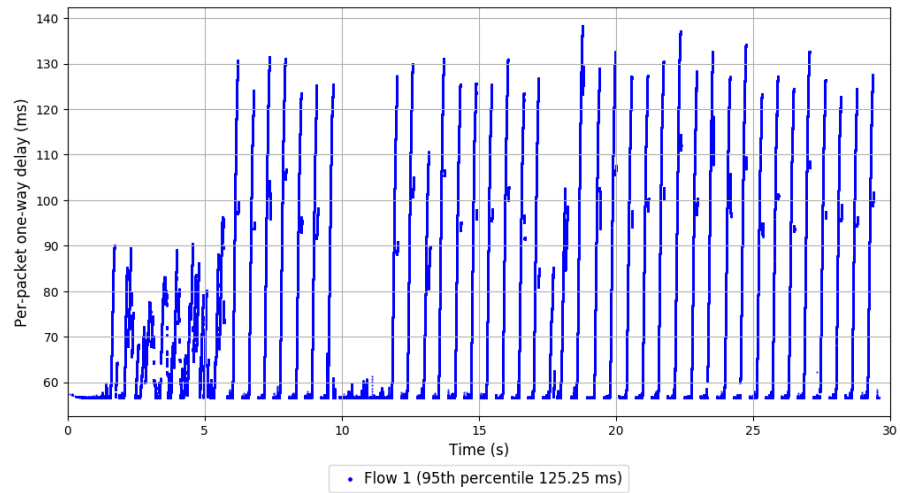
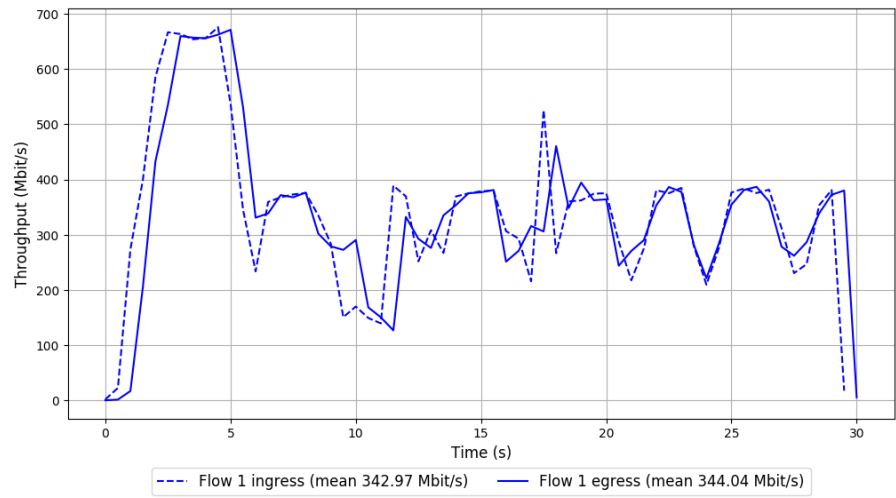


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-11-24 21:35:13
End at: 2019-11-24 21:35:43
Local clock offset: -0.059 ms
Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2019-11-25 01:51:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 344.04 Mbit/s
95th percentile per-packet one-way delay: 125.250 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 344.04 Mbit/s
95th percentile per-packet one-way delay: 125.250 ms
Loss rate: 0.08%
```

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

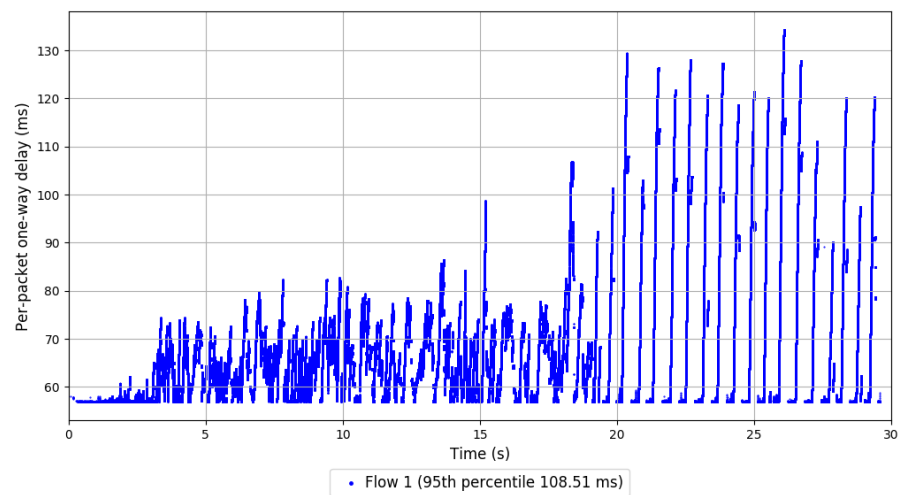
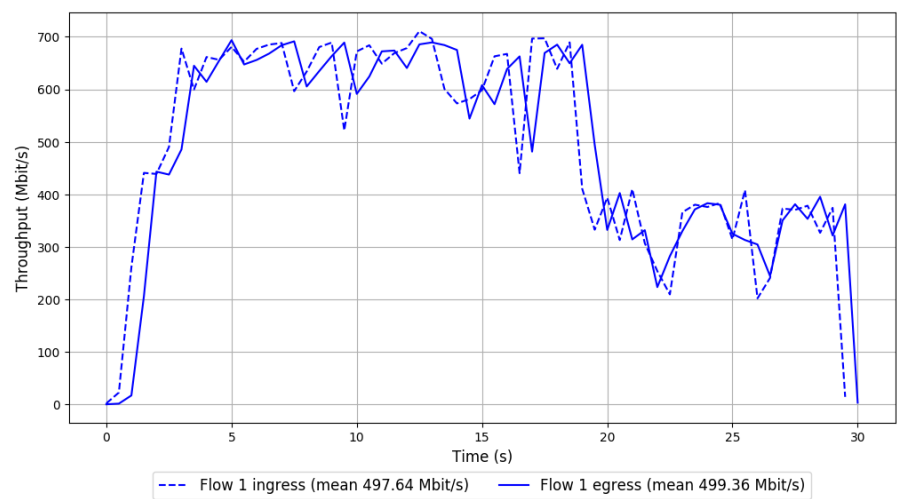


Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 22:10:07  
End at: 2019-11-24 22:10:37  
Local clock offset: -0.048 ms  
Remote clock offset: -0.196 ms

# Below is generated by plot.py at 2019-11-25 01:51:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 499.36 Mbit/s  
95th percentile per-packet one-way delay: 108.513 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 499.36 Mbit/s  
95th percentile per-packet one-way delay: 108.513 ms  
Loss rate: 0.04%

Run 2: Report of Muses\_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 22:45:26

End at: 2019-11-24 22:45:56

Local clock offset: 0.291 ms

Remote clock offset: 0.283 ms

# Below is generated by plot.py at 2019-11-25 01:51:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 377.77 Mbit/s

95th percentile per-packet one-way delay: 122.892 ms

Loss rate: 0.91%

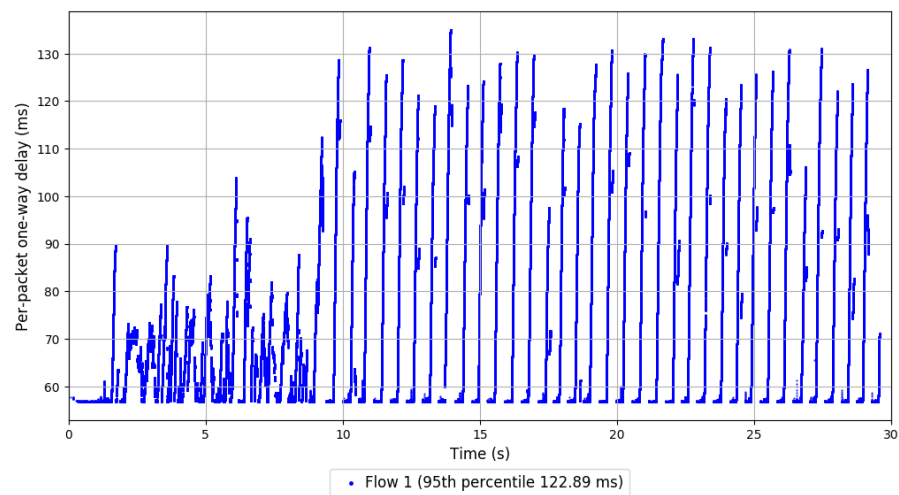
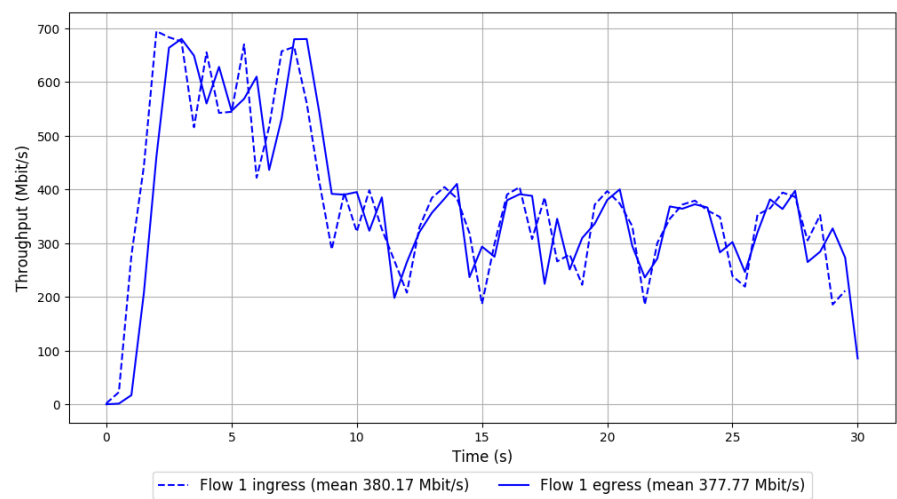
-- Flow 1:

Average throughput: 377.77 Mbit/s

95th percentile per-packet one-way delay: 122.892 ms

Loss rate: 0.91%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link

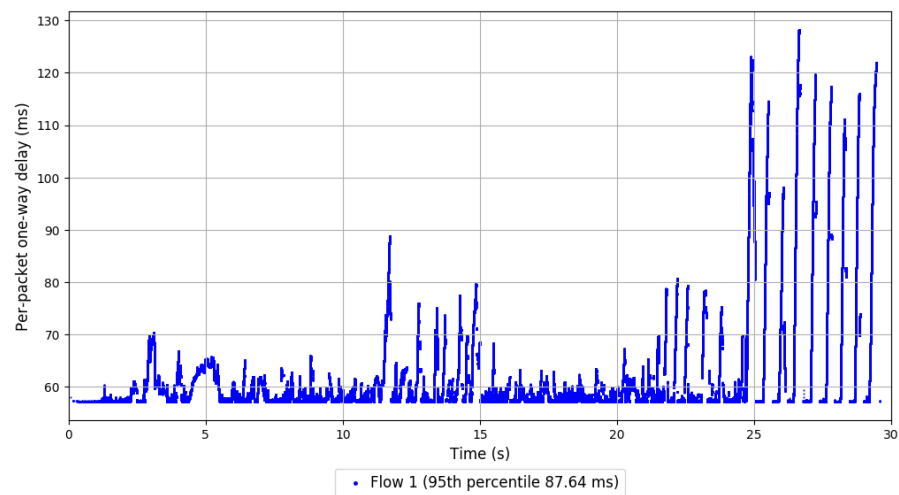
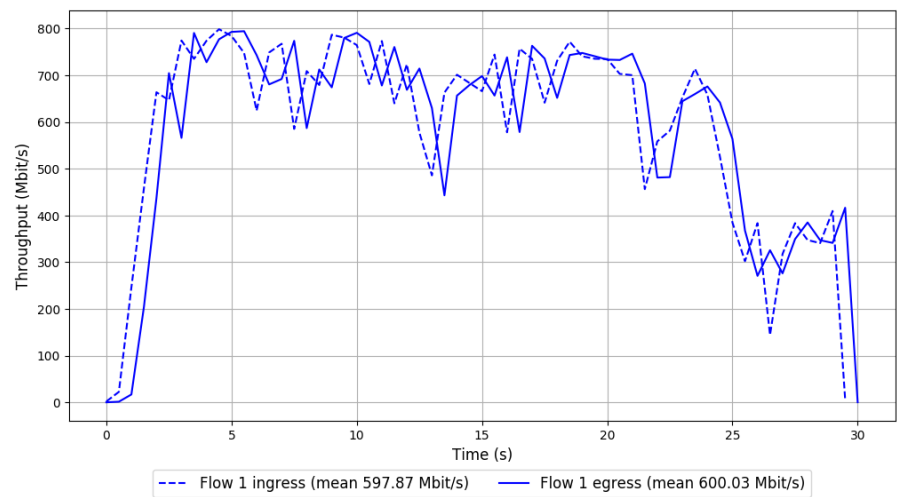


Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 23:20:32  
End at: 2019-11-24 23:21:02  
Local clock offset: 0.266 ms  
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2019-11-25 01:58:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 600.03 Mbit/s  
95th percentile per-packet one-way delay: 87.638 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 600.03 Mbit/s  
95th percentile per-packet one-way delay: 87.638 ms  
Loss rate: 0.01%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link

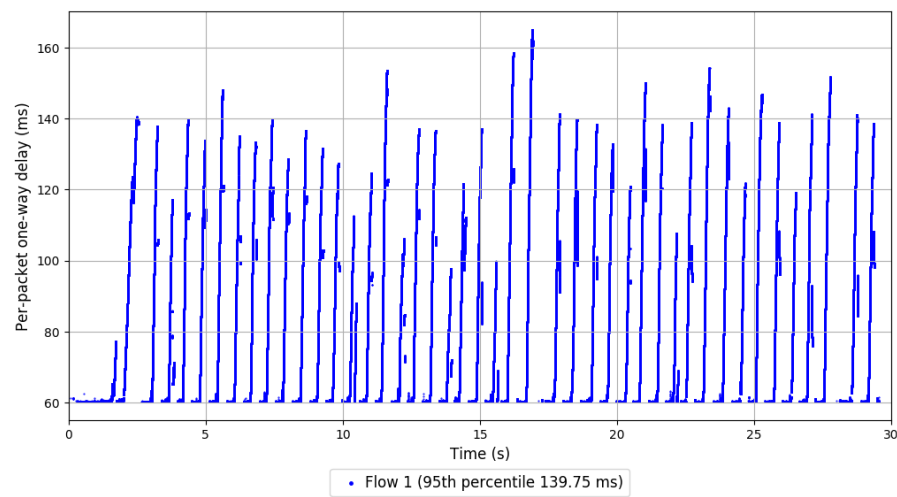
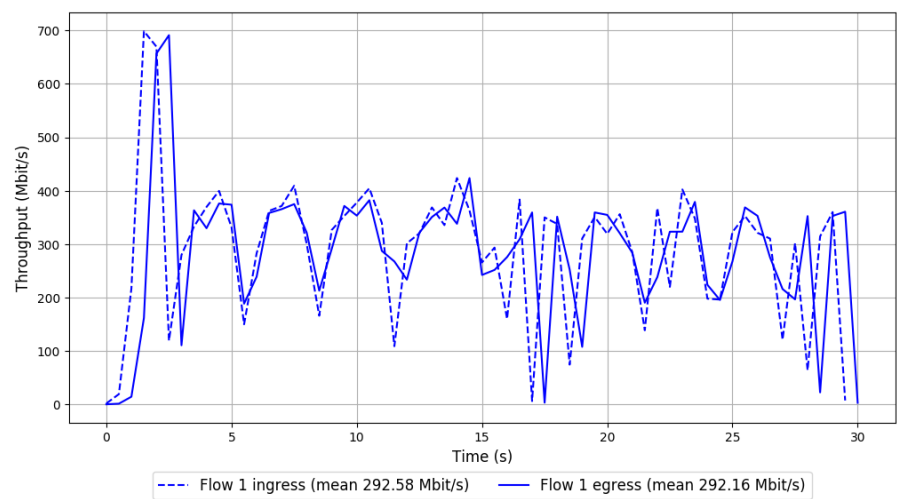


```
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2019-11-24 23:55:54
End at: 2019-11-24 23:56:24
Local clock offset: -0.082 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-11-25 01:58:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 292.16 Mbit/s
95th percentile per-packet one-way delay: 139.750 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 292.16 Mbit/s
95th percentile per-packet one-way delay: 139.750 ms
Loss rate: 0.58%
```

Run 5: Report of Muses\_DecisionTreeH0 — Data Link

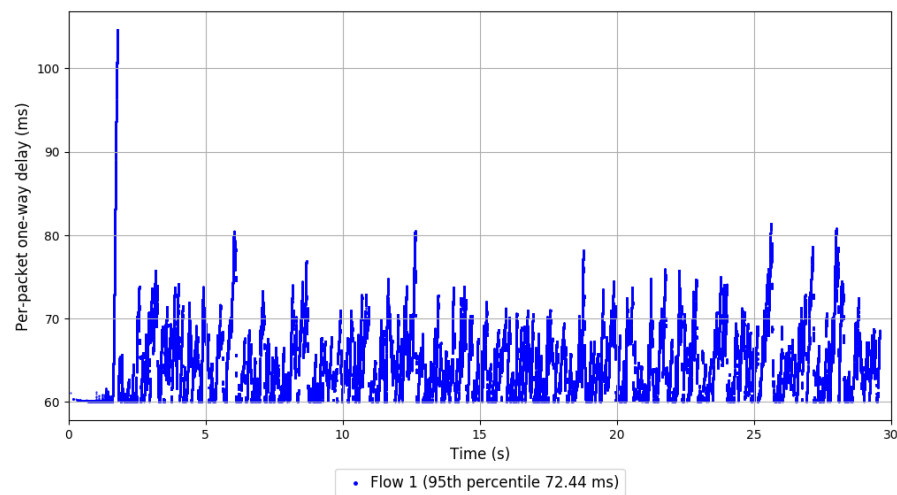
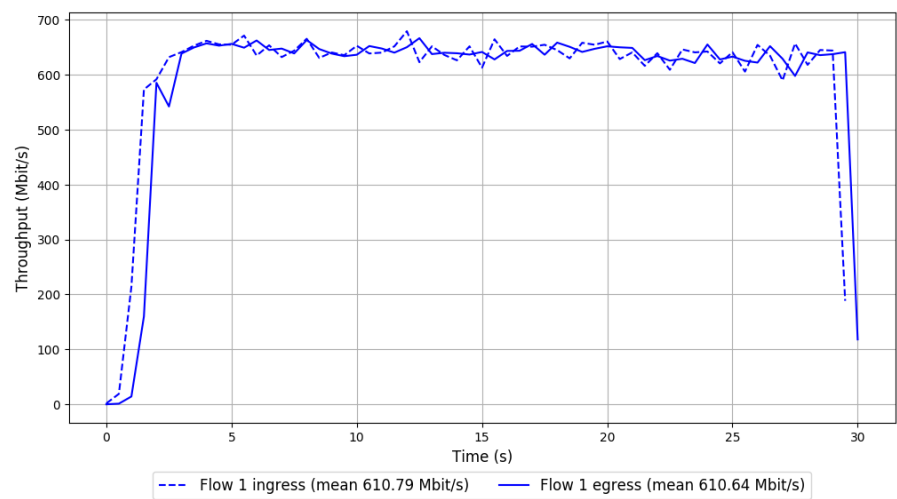


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-11-24 21:48:06
End at: 2019-11-24 21:48:36
Local clock offset: -0.072 ms
Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2019-11-25 01:59:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 610.64 Mbit/s
95th percentile per-packet one-way delay: 72.445 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 610.64 Mbit/s
95th percentile per-packet one-way delay: 72.445 ms
Loss rate: 0.43%
```

Run 1: Report of Muses\_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 22:23:21

End at: 2019-11-24 22:23:51

Local clock offset: -0.013 ms

Remote clock offset: 0.09 ms

# Below is generated by plot.py at 2019-11-25 02:00:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 635.30 Mbit/s

95th percentile per-packet one-way delay: 67.808 ms

Loss rate: 0.47%

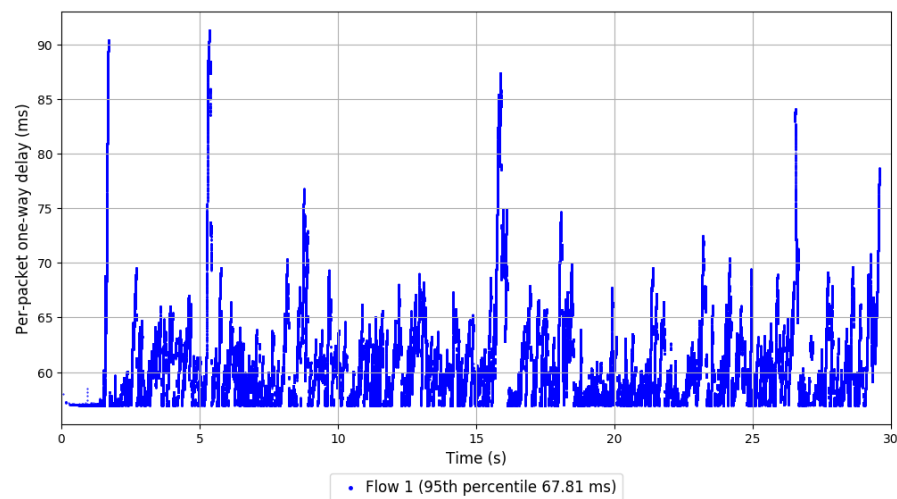
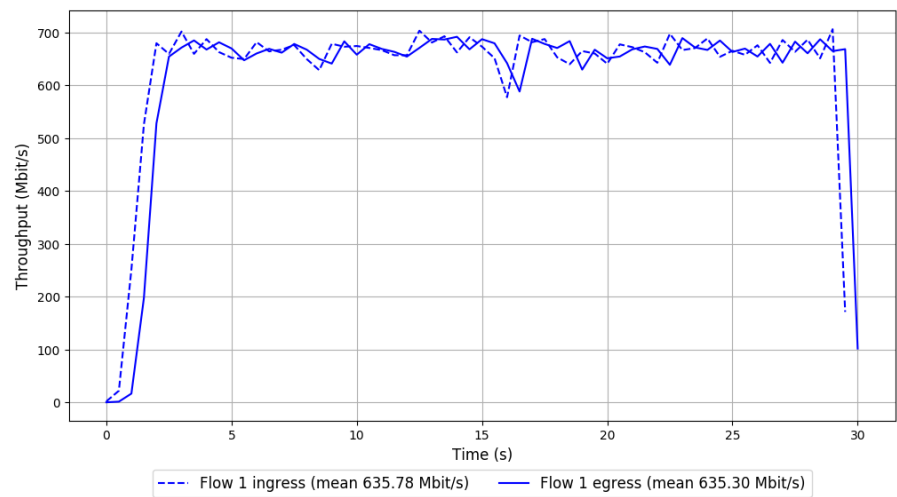
-- Flow 1:

Average throughput: 635.30 Mbit/s

95th percentile per-packet one-way delay: 67.808 ms

Loss rate: 0.47%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link

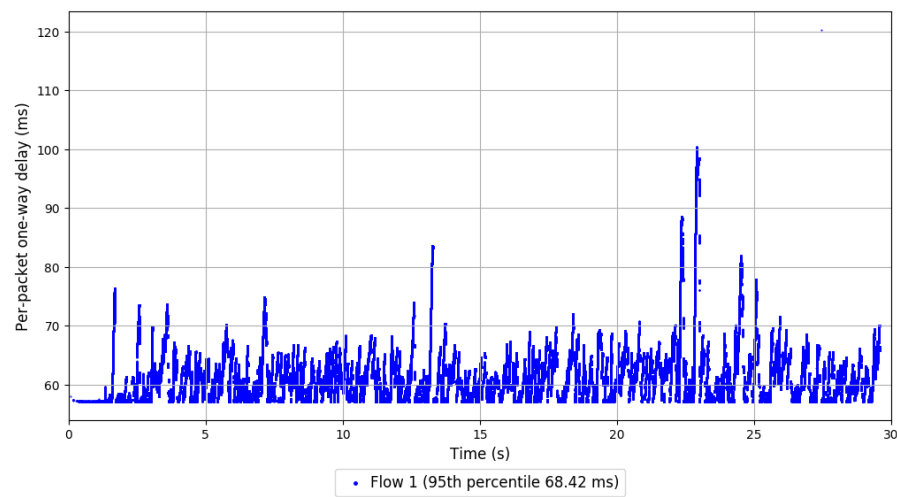
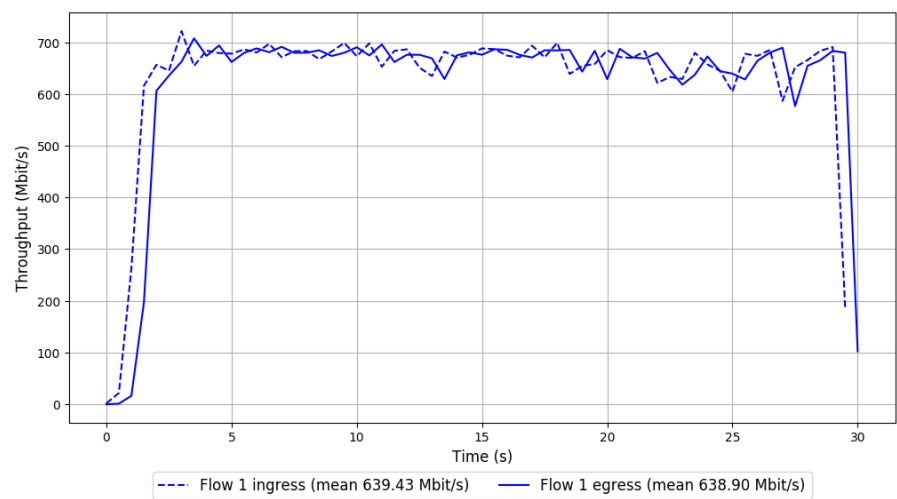


Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 22:58:26  
End at: 2019-11-24 22:58:56  
Local clock offset: -0.036 ms  
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-11-25 02:01:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 638.90 Mbit/s  
95th percentile per-packet one-way delay: 68.419 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 638.90 Mbit/s  
95th percentile per-packet one-way delay: 68.419 ms  
Loss rate: 0.47%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 23:33:51

End at: 2019-11-24 23:34:21

Local clock offset: -0.065 ms

Remote clock offset: 0.039 ms

# Below is generated by plot.py at 2019-11-25 02:01:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 628.36 Mbit/s

95th percentile per-packet one-way delay: 66.259 ms

Loss rate: 0.41%

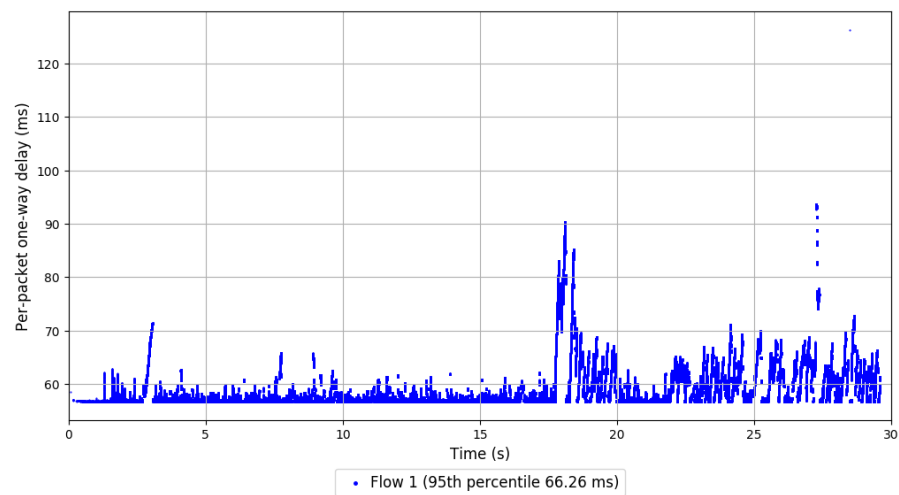
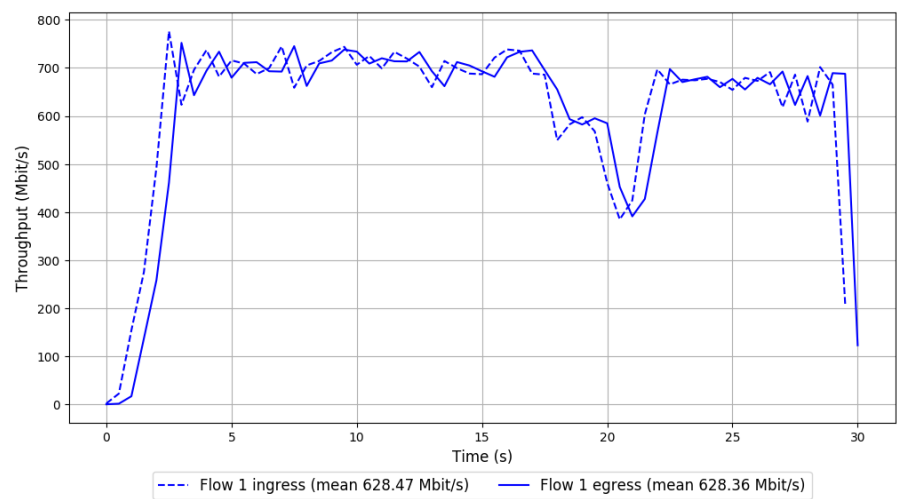
-- Flow 1:

Average throughput: 628.36 Mbit/s

95th percentile per-packet one-way delay: 66.259 ms

Loss rate: 0.41%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link

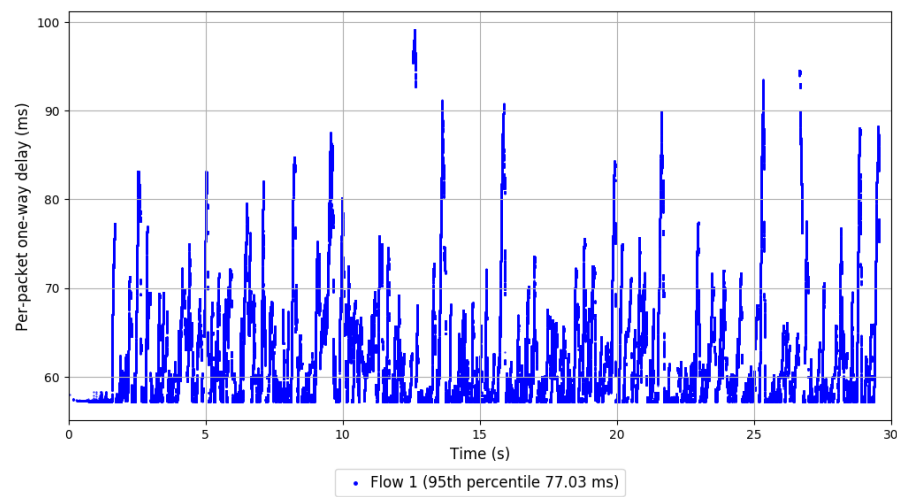
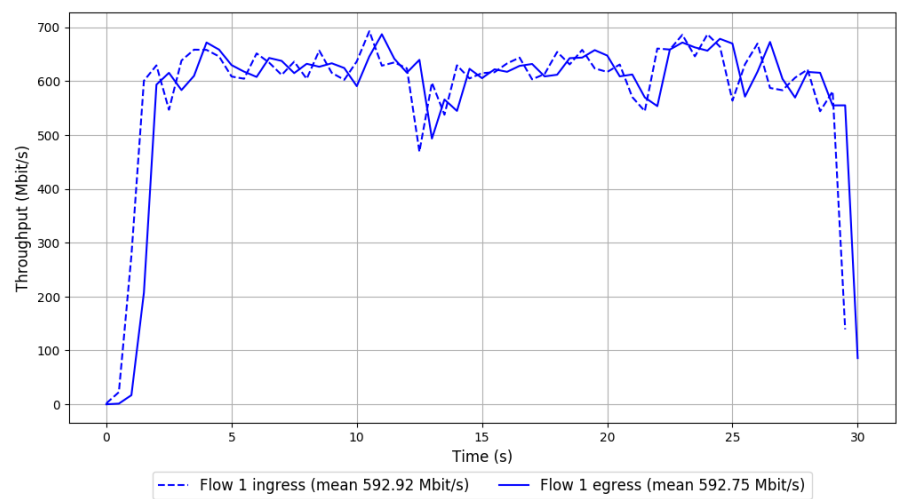


Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-25 00:08:48  
End at: 2019-11-25 00:09:18  
Local clock offset: 0.371 ms  
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2019-11-25 02:02:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 592.75 Mbit/s  
95th percentile per-packet one-way delay: 77.032 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 592.75 Mbit/s  
95th percentile per-packet one-way delay: 77.032 ms  
Loss rate: 0.42%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-11-24 21:52:27

End at: 2019-11-24 21:52:57

Local clock offset: -0.1 ms

Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2019-11-25 02:04:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 358.02 Mbit/s

95th percentile per-packet one-way delay: 127.004 ms

Loss rate: 0.60%

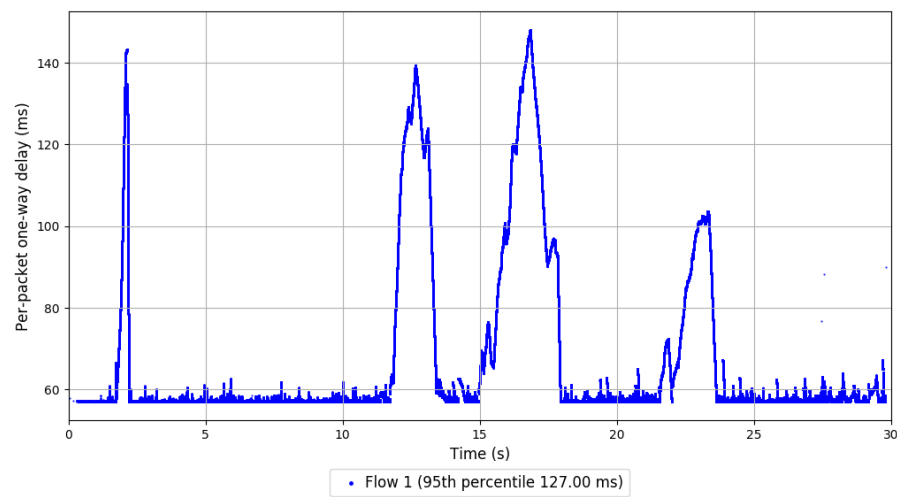
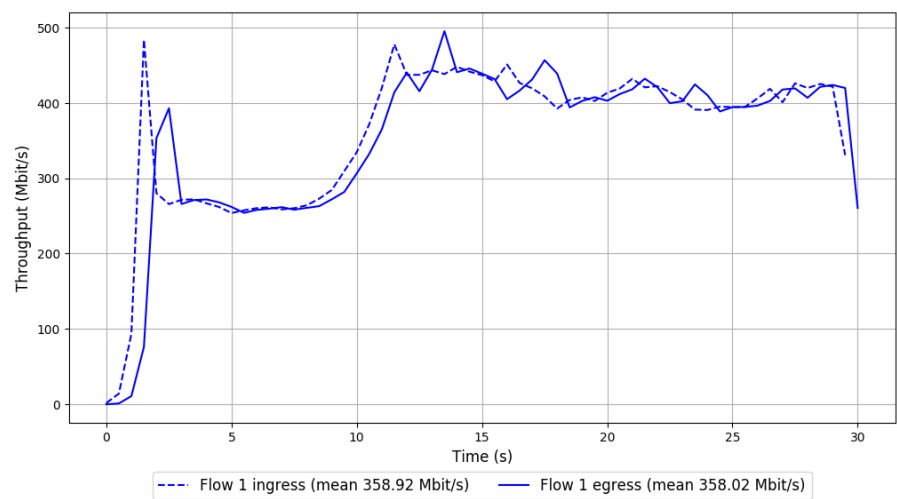
-- Flow 1:

Average throughput: 358.02 Mbit/s

95th percentile per-packet one-way delay: 127.004 ms

Loss rate: 0.60%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-11-24 22:27:39

End at: 2019-11-24 22:28:10

Local clock offset: -0.053 ms

Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2019-11-25 02:09:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 431.69 Mbit/s

95th percentile per-packet one-way delay: 176.199 ms

Loss rate: 2.55%

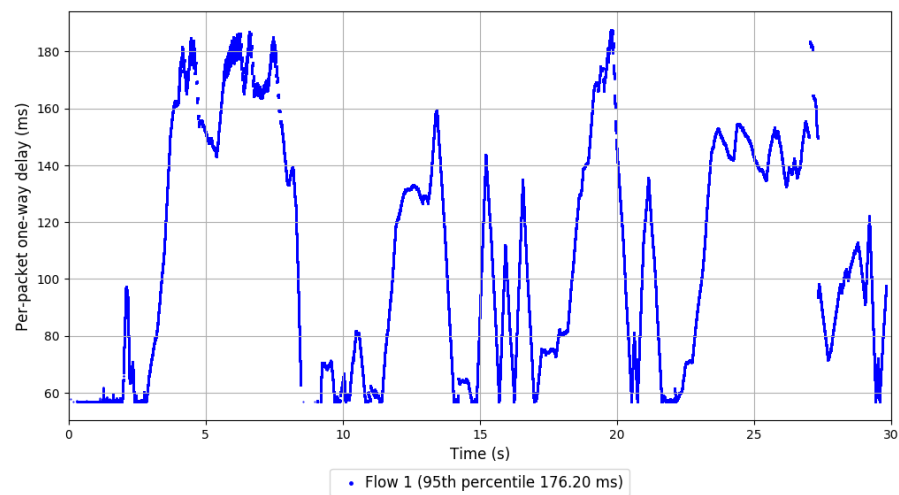
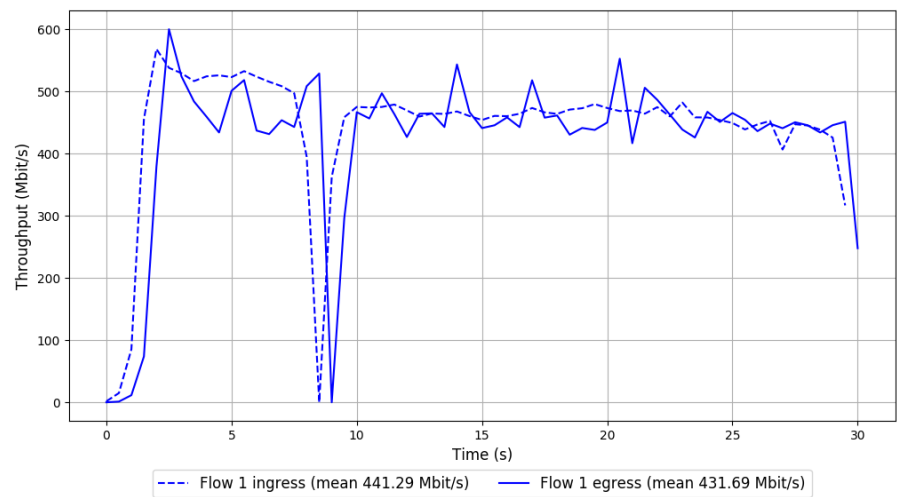
-- Flow 1:

Average throughput: 431.69 Mbit/s

95th percentile per-packet one-way delay: 176.199 ms

Loss rate: 2.55%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-11-24 23:02:46

End at: 2019-11-24 23:03:16

Local clock offset: -0.071 ms

Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2019-11-25 02:12:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 373.17 Mbit/s

95th percentile per-packet one-way delay: 162.357 ms

Loss rate: 1.10%

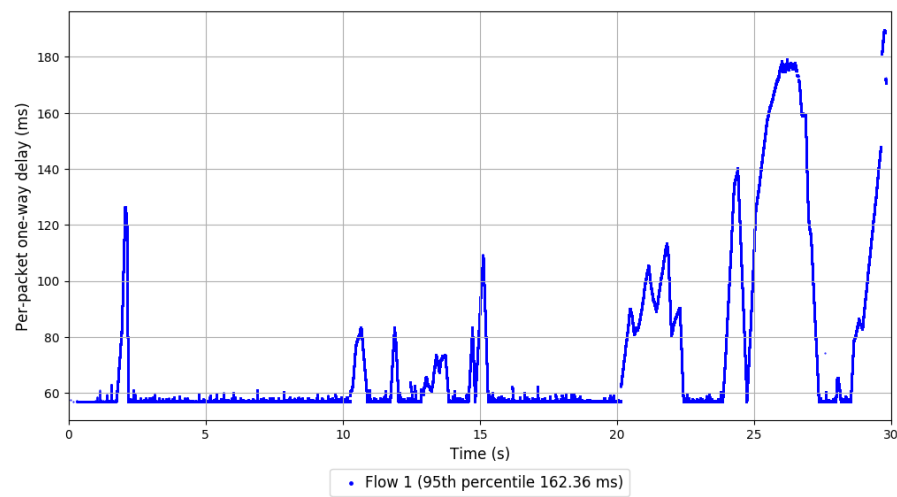
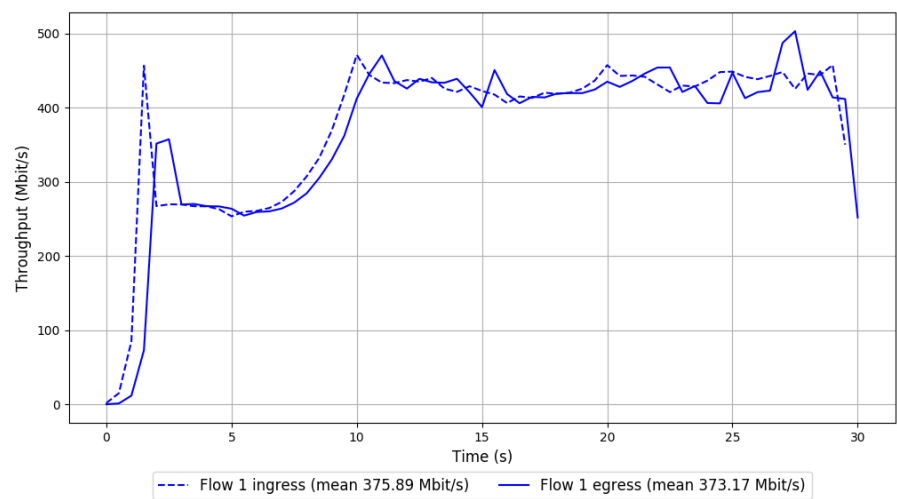
-- Flow 1:

Average throughput: 373.17 Mbit/s

95th percentile per-packet one-way delay: 162.357 ms

Loss rate: 1.10%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-11-24 23:38:12

End at: 2019-11-24 23:38:42

Local clock offset: -0.076 ms

Remote clock offset: -0.208 ms

# Below is generated by plot.py at 2019-11-25 02:12:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 356.14 Mbit/s

95th percentile per-packet one-way delay: 151.573 ms

Loss rate: 0.75%

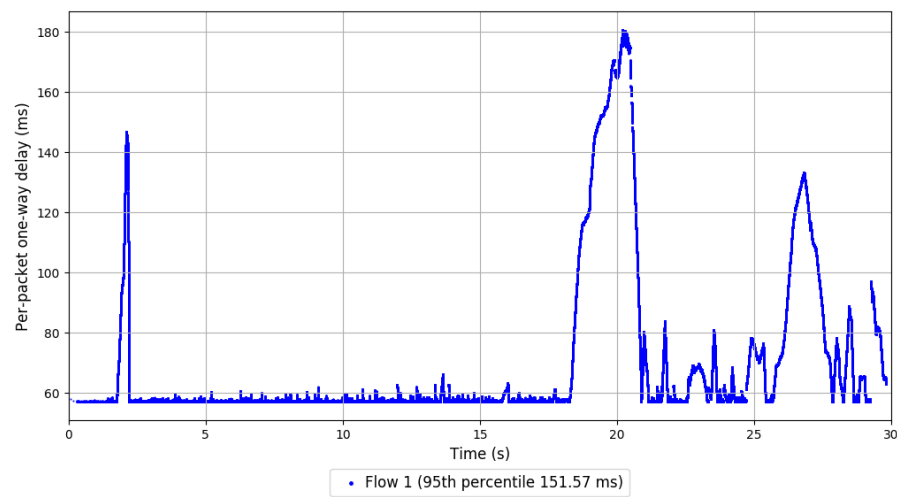
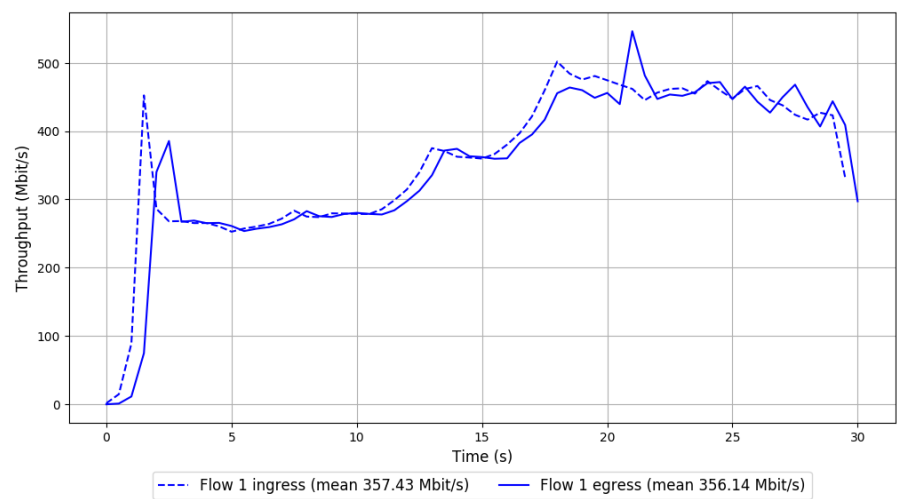
-- Flow 1:

Average throughput: 356.14 Mbit/s

95th percentile per-packet one-way delay: 151.573 ms

Loss rate: 0.75%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-11-25 00:13:04

End at: 2019-11-25 00:13:34

Local clock offset: -0.049 ms

Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2019-11-25 02:14:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 366.76 Mbit/s

95th percentile per-packet one-way delay: 150.507 ms

Loss rate: 0.56%

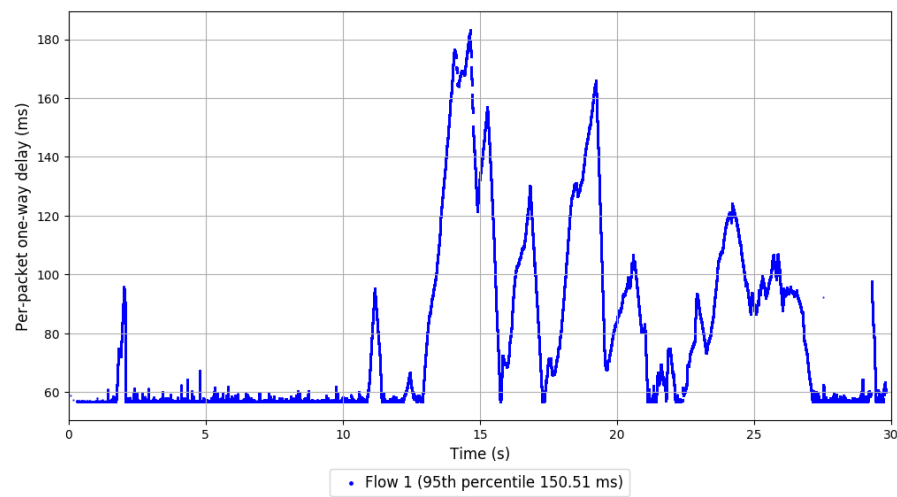
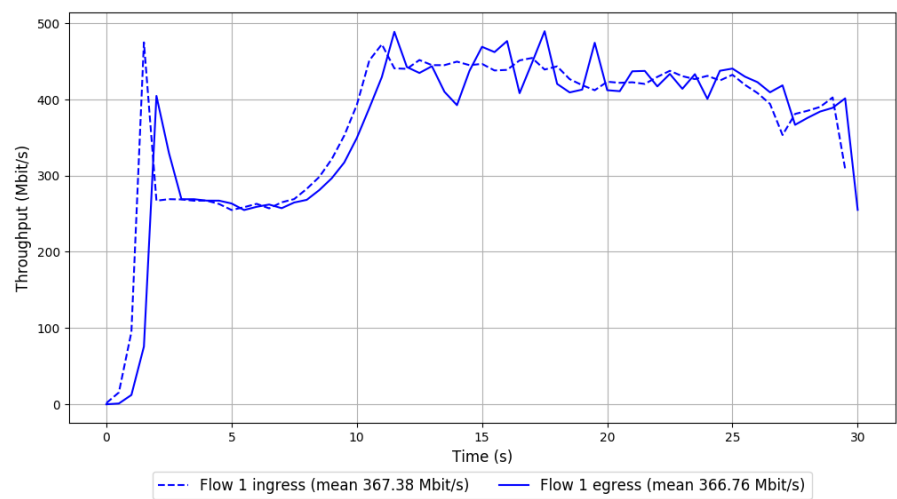
-- Flow 1:

Average throughput: 366.76 Mbit/s

95th percentile per-packet one-way delay: 150.507 ms

Loss rate: 0.56%

Run 5: Report of PCC-Allegro — Data Link

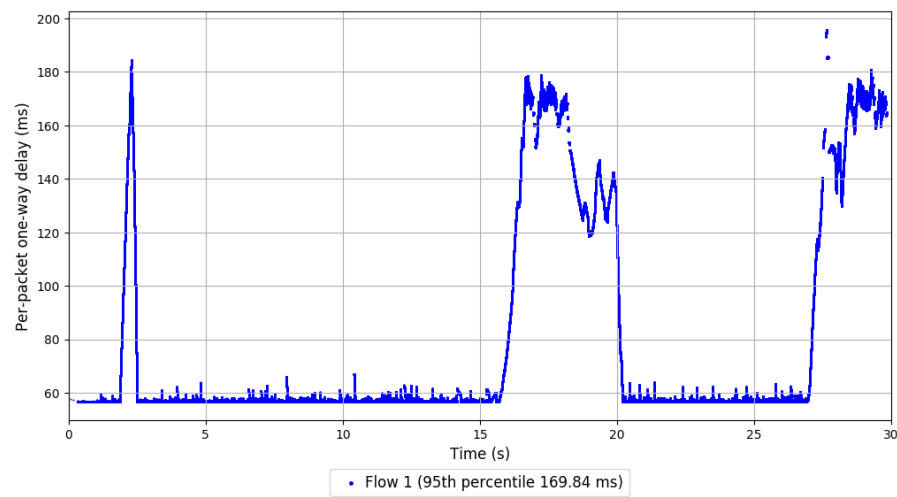
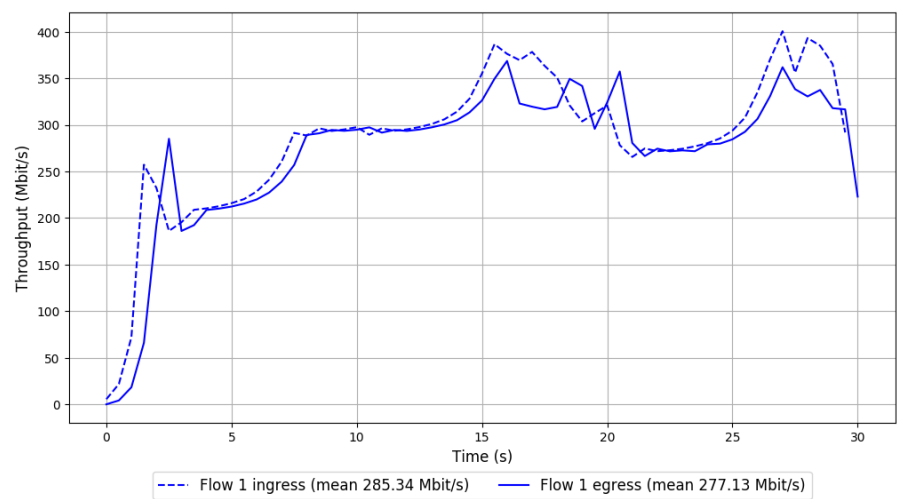


```
Run 1: Statistics of PCC-Expr

Start at: 2019-11-24 21:40:31
End at: 2019-11-24 21:41:01
Local clock offset: -0.118 ms
Remote clock offset: 0.065 ms

# Below is generated by plot.py at 2019-11-25 02:14:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 277.13 Mbit/s
95th percentile per-packet one-way delay: 169.843 ms
Loss rate: 3.25%
-- Flow 1:
Average throughput: 277.13 Mbit/s
95th percentile per-packet one-way delay: 169.843 ms
Loss rate: 3.25%
```

Run 1: Report of PCC-Expr — Data Link

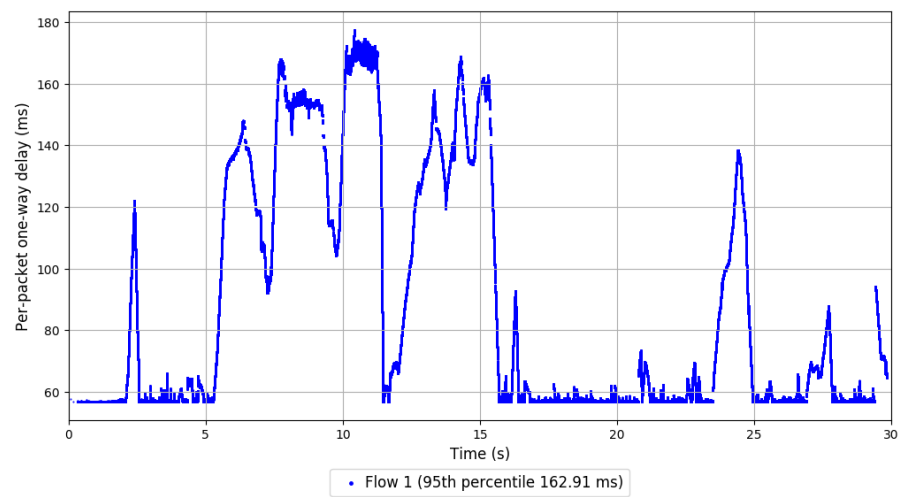
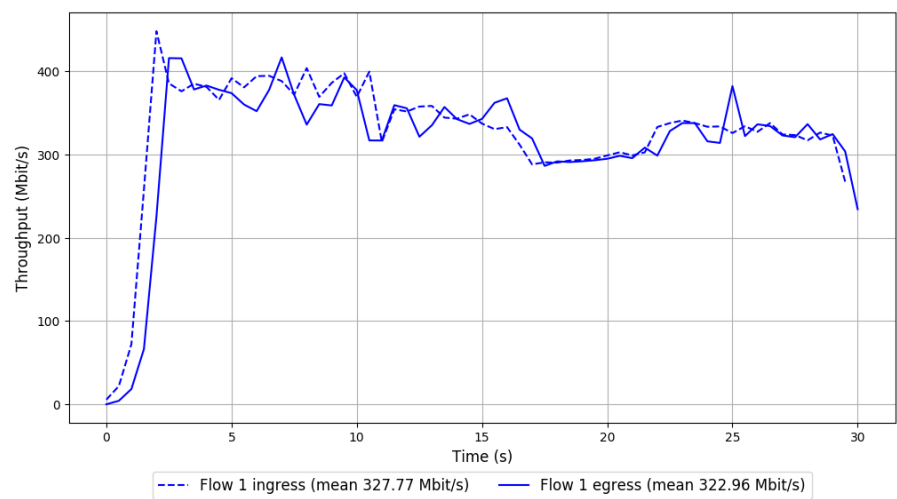


Run 2: Statistics of PCC-Expr

Start at: 2019-11-24 22:15:27  
End at: 2019-11-24 22:15:57  
Local clock offset: -0.082 ms  
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2019-11-25 02:14:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 322.96 Mbit/s  
95th percentile per-packet one-way delay: 162.911 ms  
Loss rate: 1.85%  
-- Flow 1:  
Average throughput: 322.96 Mbit/s  
95th percentile per-packet one-way delay: 162.911 ms  
Loss rate: 1.85%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-11-24 22:50:43

End at: 2019-11-24 22:51:13

Local clock offset: -0.065 ms

Remote clock offset: 0.092 ms

# Below is generated by plot.py at 2019-11-25 02:14:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 290.32 Mbit/s

95th percentile per-packet one-way delay: 163.648 ms

Loss rate: 1.79%

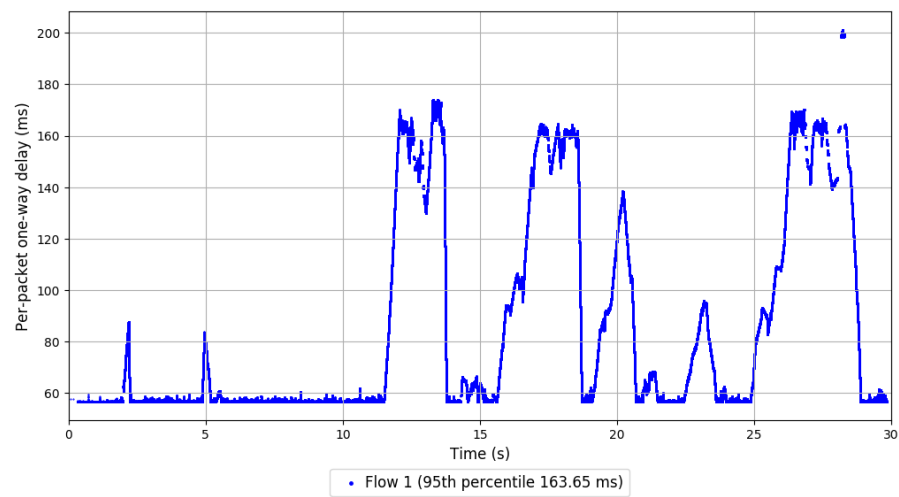
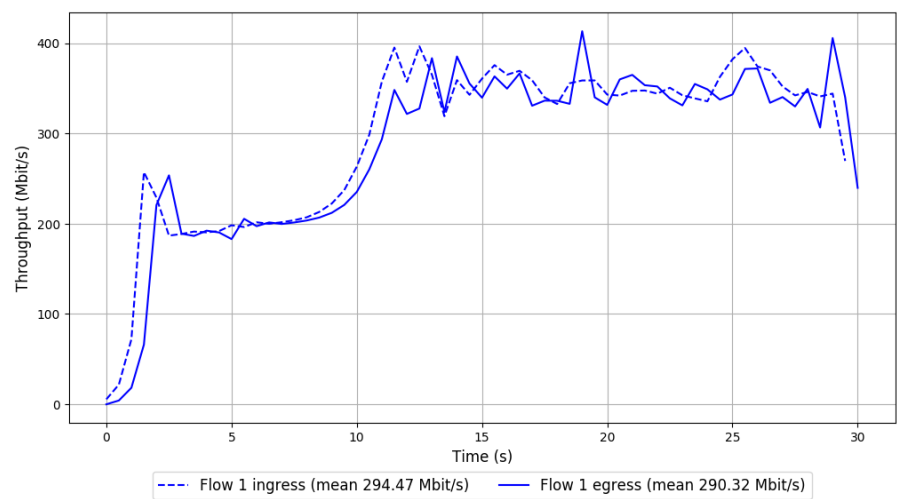
-- Flow 1:

Average throughput: 290.32 Mbit/s

95th percentile per-packet one-way delay: 163.648 ms

Loss rate: 1.79%

Run 3: Report of PCC-Expr — Data Link

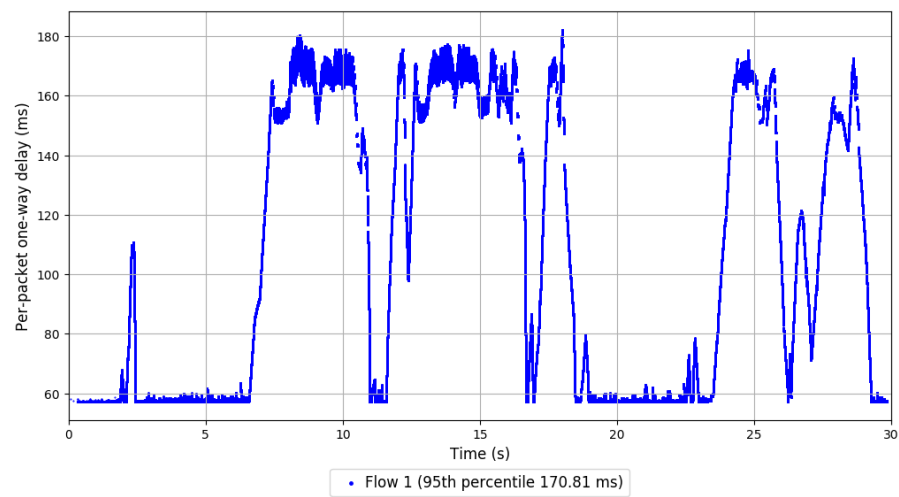
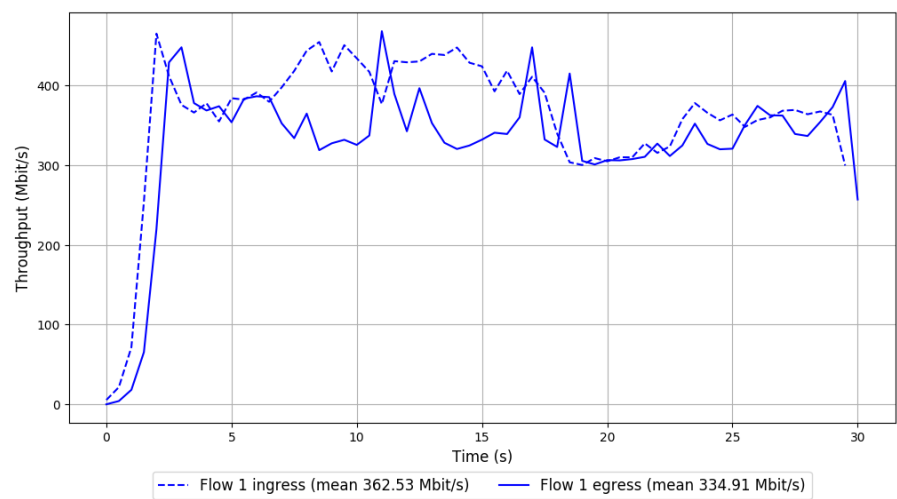


Run 4: Statistics of PCC-Expr

Start at: 2019-11-24 23:26:01  
End at: 2019-11-24 23:26:31  
Local clock offset: 0.244 ms  
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2019-11-25 02:17:21  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 334.91 Mbit/s  
95th percentile per-packet one-way delay: 170.814 ms  
Loss rate: 7.98%  
-- Flow 1:  
Average throughput: 334.91 Mbit/s  
95th percentile per-packet one-way delay: 170.814 ms  
Loss rate: 7.98%

Run 4: Report of PCC-Expr — Data Link

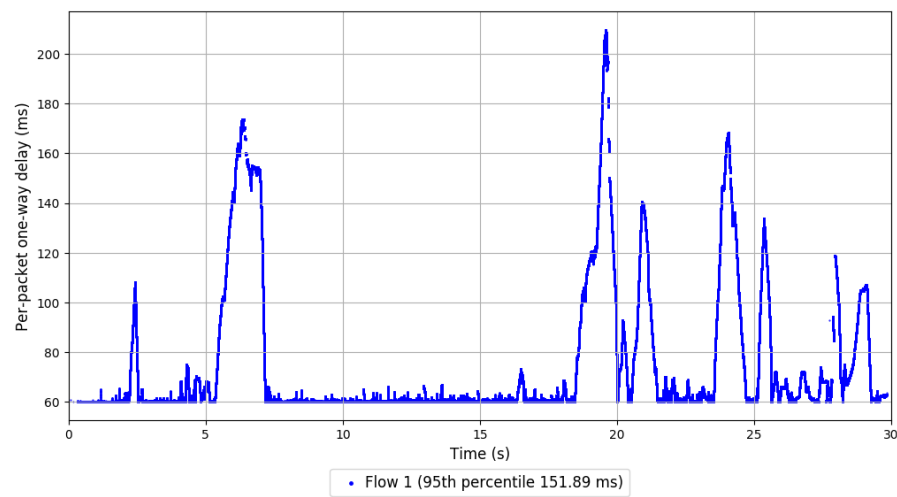
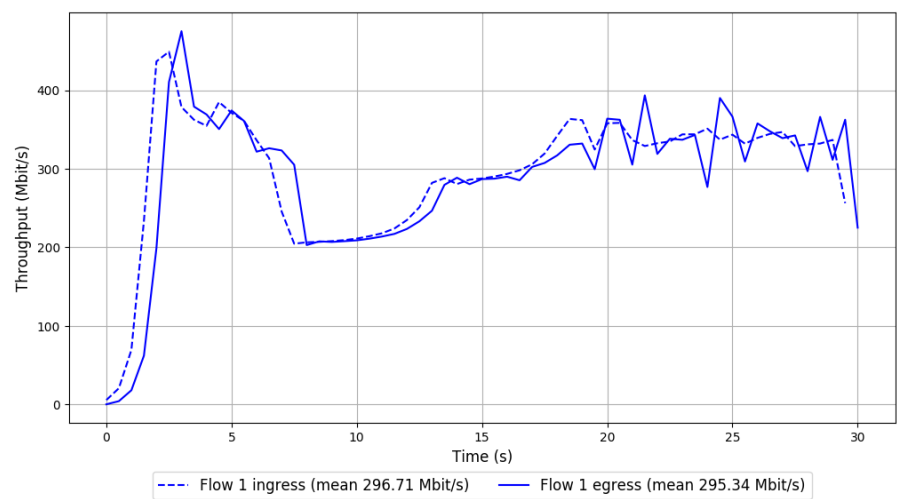


Run 5: Statistics of PCC-Expr

Start at: 2019-11-25 00:01:11  
End at: 2019-11-25 00:01:41  
Local clock offset: -0.023 ms  
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-11-25 02:19:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 295.34 Mbit/s  
95th percentile per-packet one-way delay: 151.887 ms  
Loss rate: 0.85%  
-- Flow 1:  
Average throughput: 295.34 Mbit/s  
95th percentile per-packet one-way delay: 151.887 ms  
Loss rate: 0.85%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-11-24 21:29:15

End at: 2019-11-24 21:29:45

Local clock offset: -0.076 ms

Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2019-11-25 02:19:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.95 Mbit/s

95th percentile per-packet one-way delay: 56.686 ms

Loss rate: 0.00%

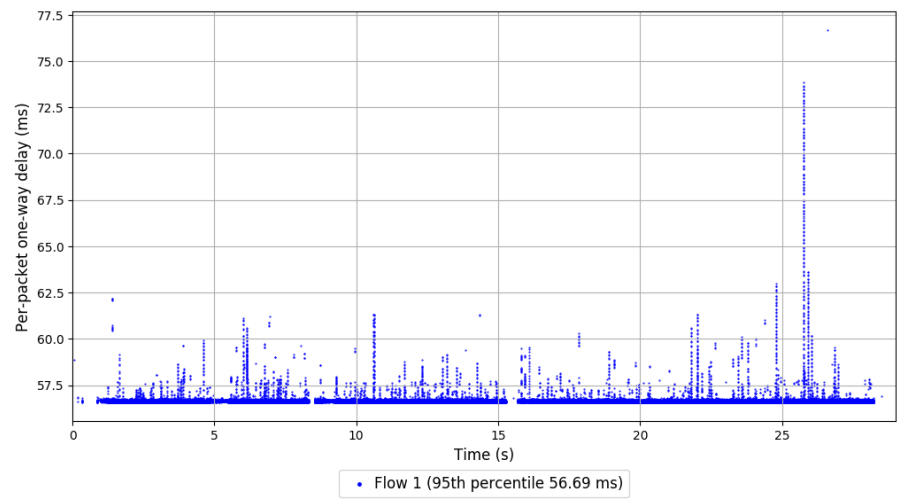
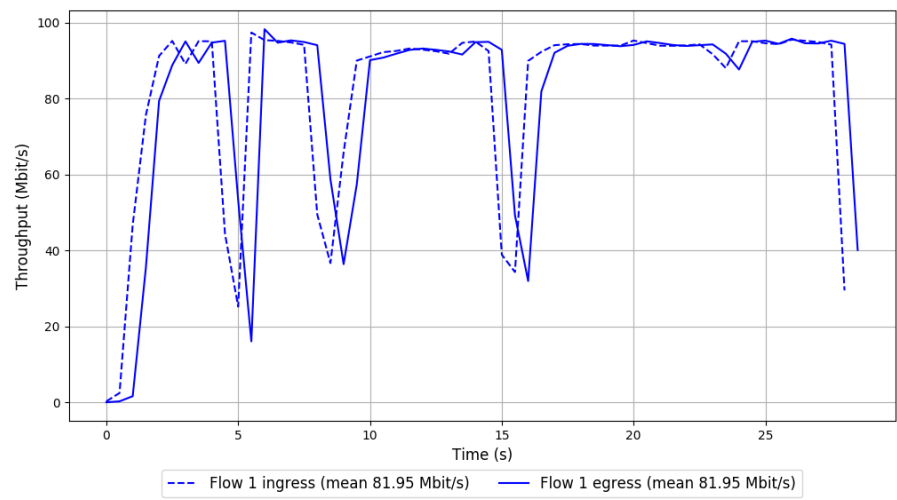
-- Flow 1:

Average throughput: 81.95 Mbit/s

95th percentile per-packet one-way delay: 56.686 ms

Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-11-24 22:04:12

End at: 2019-11-24 22:04:42

Local clock offset: -0.119 ms

Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-11-25 02:19:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 77.31 Mbit/s

95th percentile per-packet one-way delay: 56.826 ms

Loss rate: 0.51%

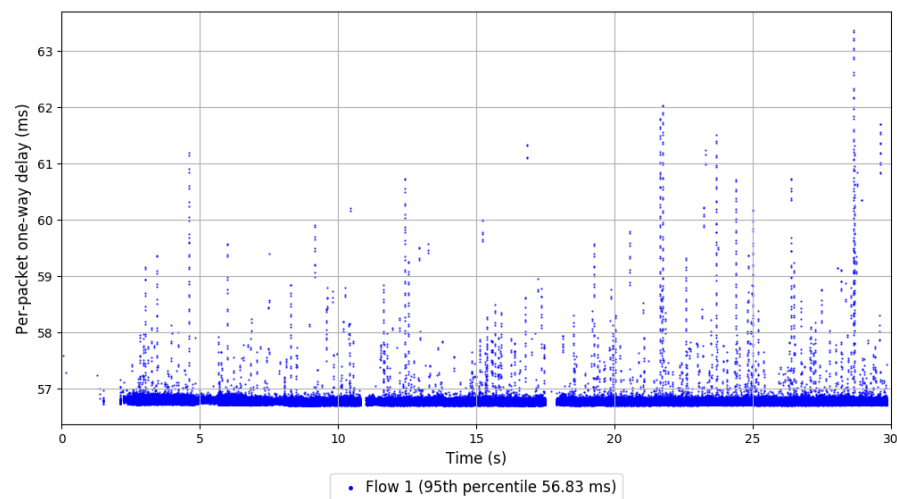
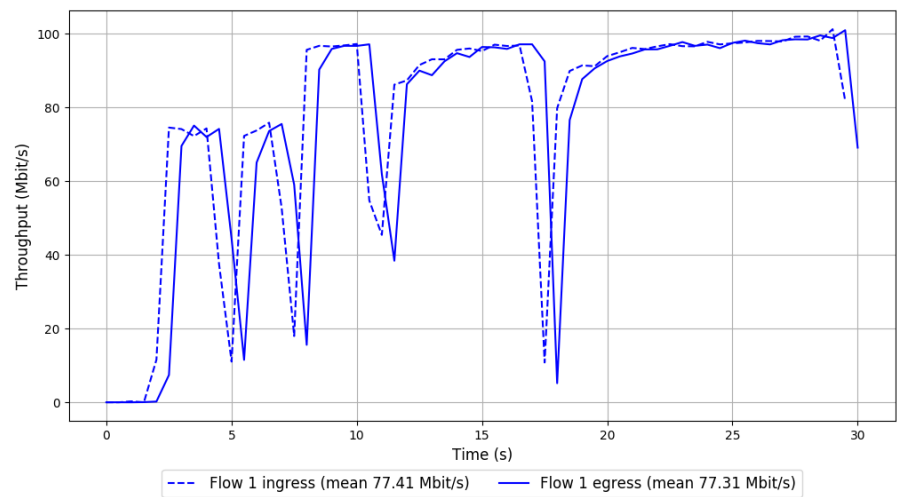
-- Flow 1:

Average throughput: 77.31 Mbit/s

95th percentile per-packet one-way delay: 56.826 ms

Loss rate: 0.51%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-11-24 22:39:31

End at: 2019-11-24 22:40:01

Local clock offset: -0.067 ms

Remote clock offset: 0.057 ms

# Below is generated by plot.py at 2019-11-25 02:19:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 58.34 Mbit/s

95th percentile per-packet one-way delay: 56.843 ms

Loss rate: 0.59%

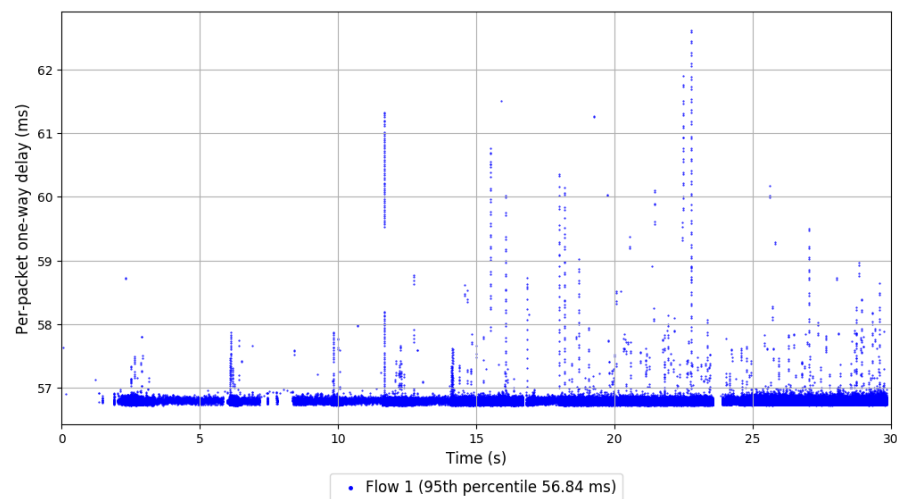
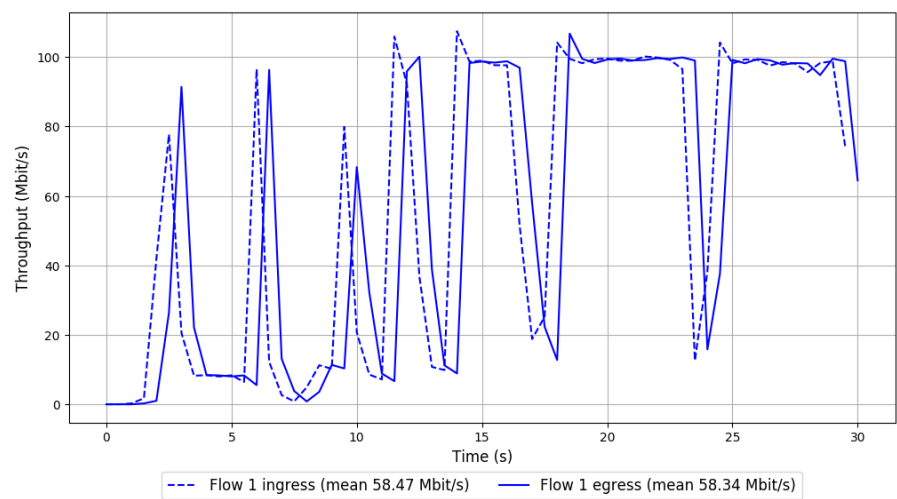
-- Flow 1:

Average throughput: 58.34 Mbit/s

95th percentile per-packet one-way delay: 56.843 ms

Loss rate: 0.59%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-11-24 23:14:33

End at: 2019-11-24 23:15:03

Local clock offset: 0.245 ms

Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2019-11-25 02:19:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.48 Mbit/s

95th percentile per-packet one-way delay: 57.484 ms

Loss rate: 0.50%

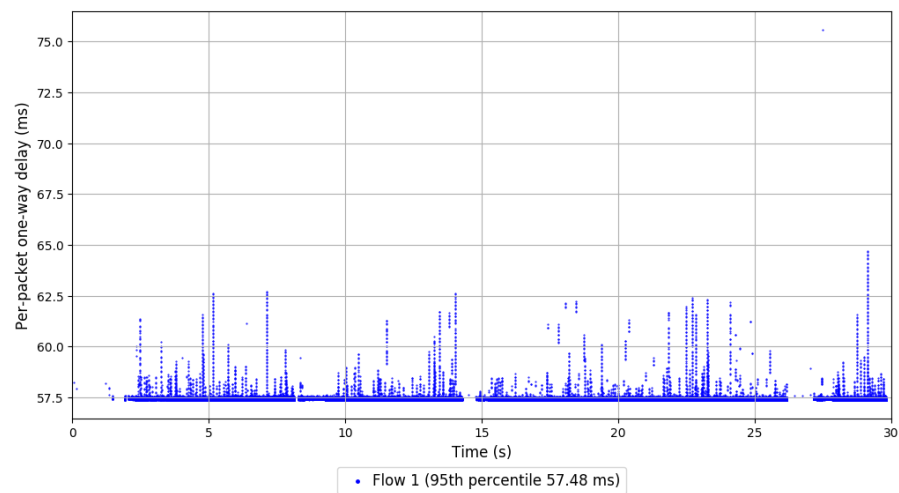
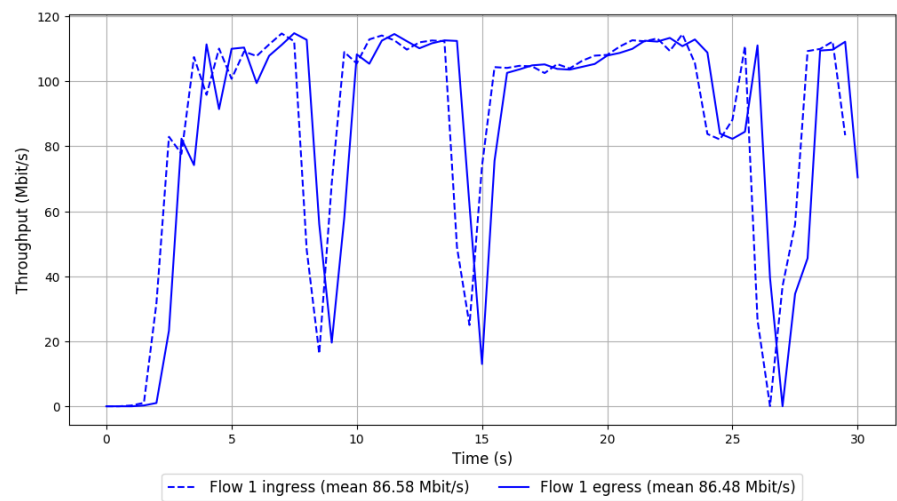
-- Flow 1:

Average throughput: 86.48 Mbit/s

95th percentile per-packet one-way delay: 57.484 ms

Loss rate: 0.50%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-11-24 23:49:57

End at: 2019-11-24 23:50:27

Local clock offset: -0.088 ms

Remote clock offset: -0.006 ms

# Below is generated by plot.py at 2019-11-25 02:19:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 71.03 Mbit/s

95th percentile per-packet one-way delay: 56.822 ms

Loss rate: 0.62%

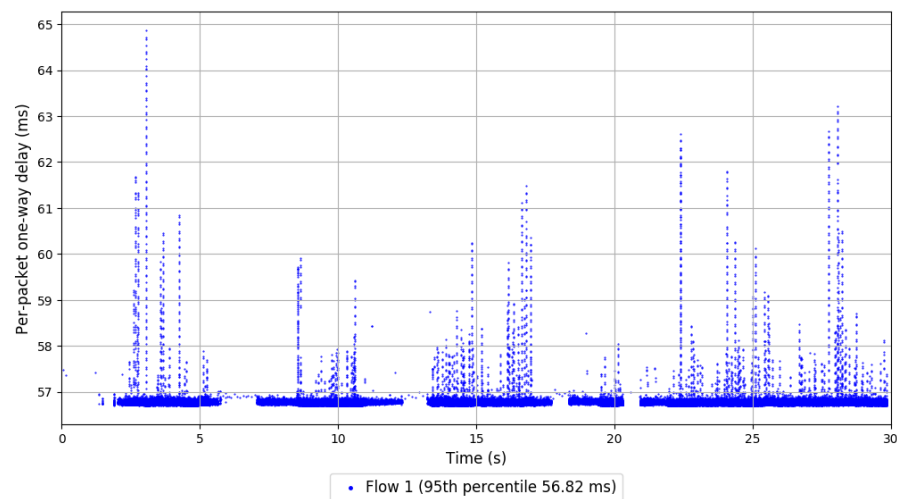
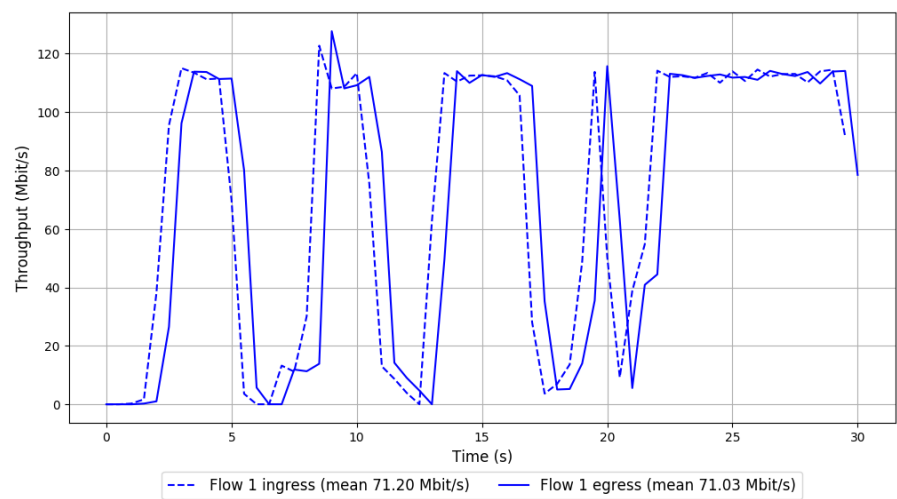
-- Flow 1:

Average throughput: 71.03 Mbit/s

95th percentile per-packet one-way delay: 56.822 ms

Loss rate: 0.62%

Run 5: Report of QUIC Cubic — Data Link

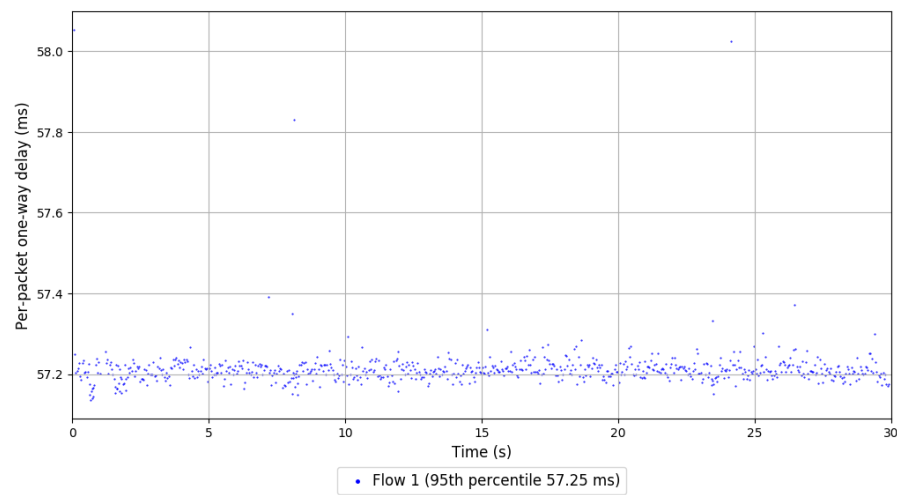
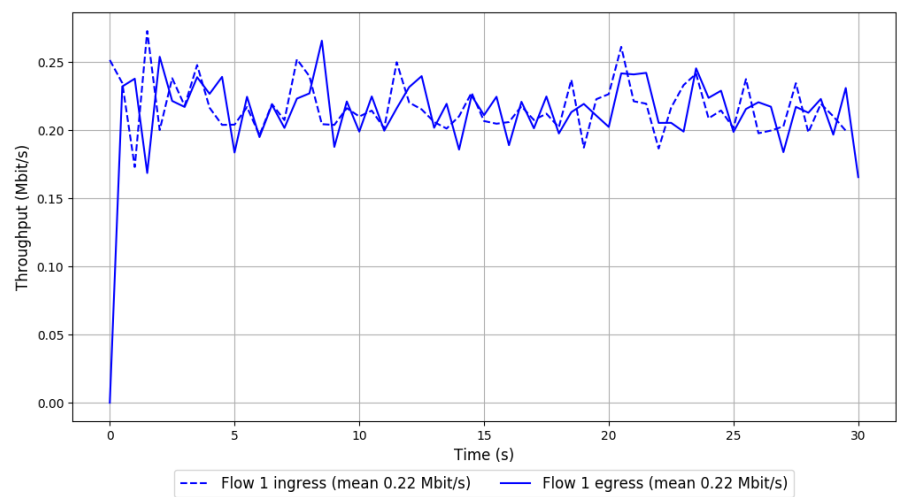


Run 1: Statistics of SCReAM

Start at: 2019-11-24 21:49:43  
End at: 2019-11-24 21:50:13  
Local clock offset: -0.103 ms  
Remote clock offset: -0.191 ms

# Below is generated by plot.py at 2019-11-25 02:19:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 57.251 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 57.251 ms  
Loss rate: 0.39%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-11-24 22:24:59

End at: 2019-11-24 22:25:29

Local clock offset: -0.023 ms

Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2019-11-25 02:19:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 57.067 ms

Loss rate: 0.39%

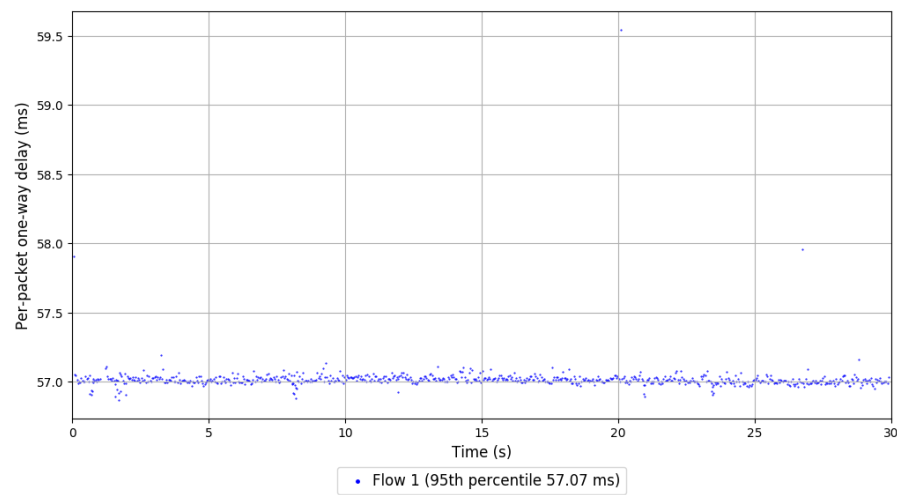
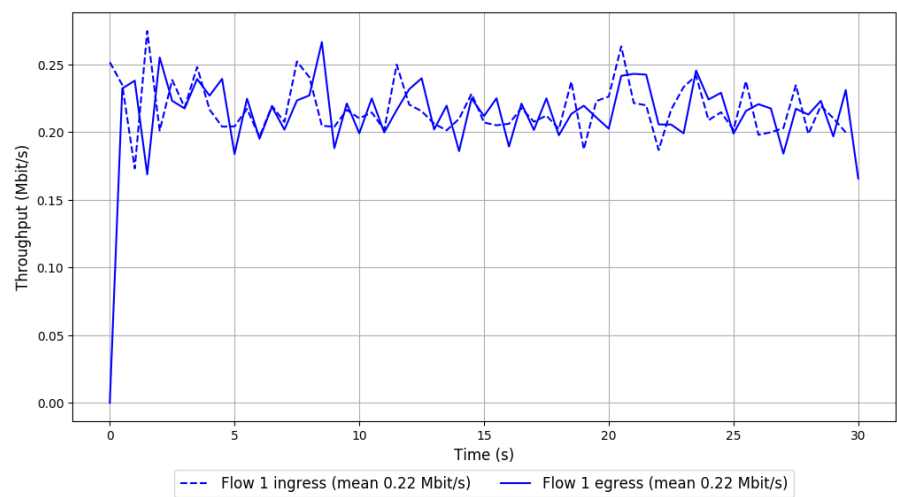
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 57.067 ms

Loss rate: 0.39%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-11-24 23:00:04

End at: 2019-11-24 23:00:34

Local clock offset: -0.031 ms

Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2019-11-25 02:19:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 56.898 ms

Loss rate: 0.38%

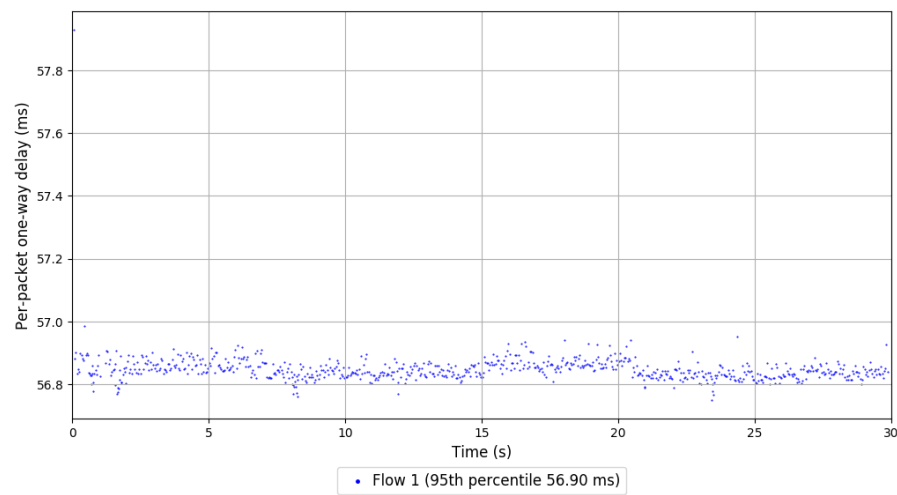
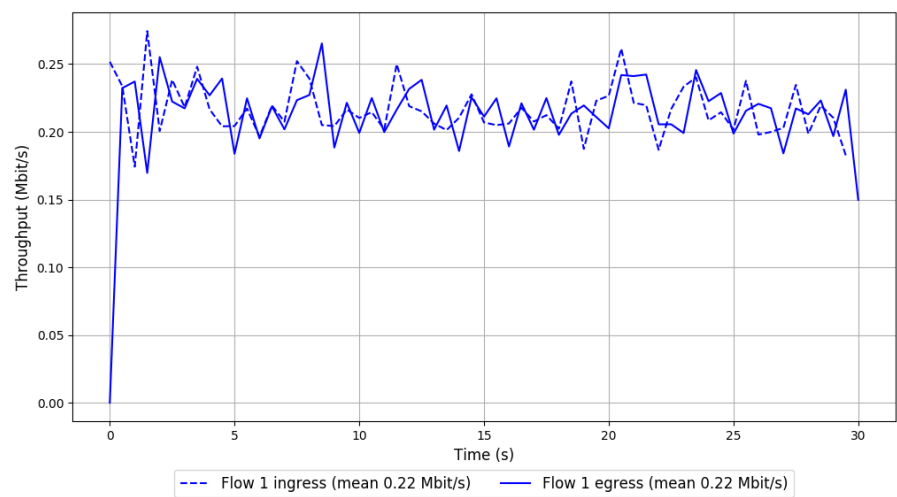
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 56.898 ms

Loss rate: 0.38%

Run 3: Report of SCReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-11-24 23:35:29

End at: 2019-11-24 23:35:59

Local clock offset: -0.031 ms

Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2019-11-25 02:19:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 57.241 ms

Loss rate: 0.39%

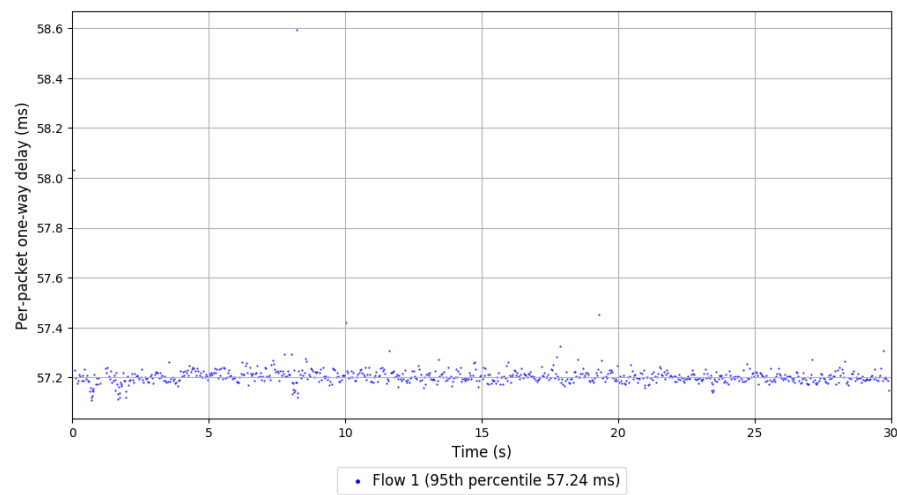
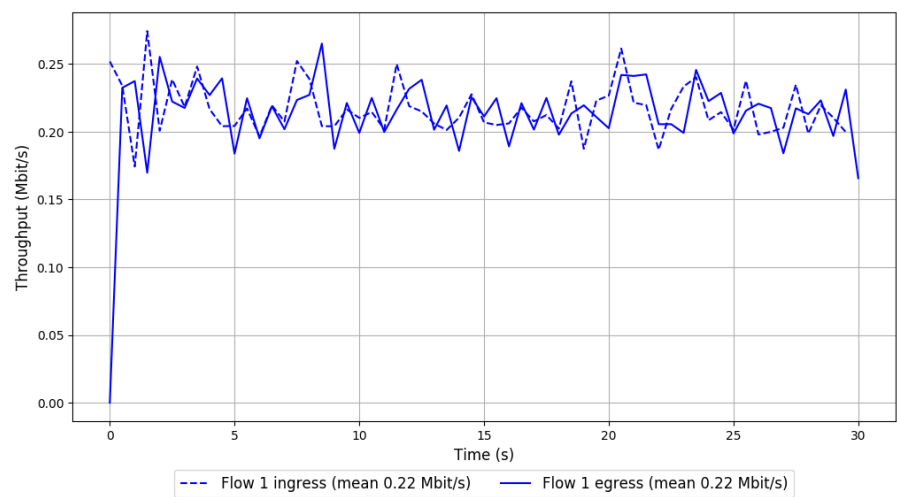
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 57.241 ms

Loss rate: 0.39%

Run 4: Report of SReAM — Data Link

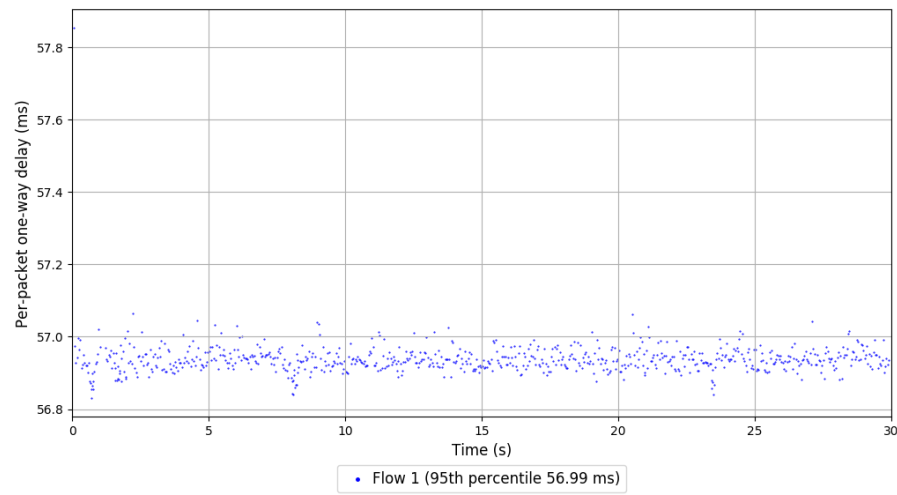
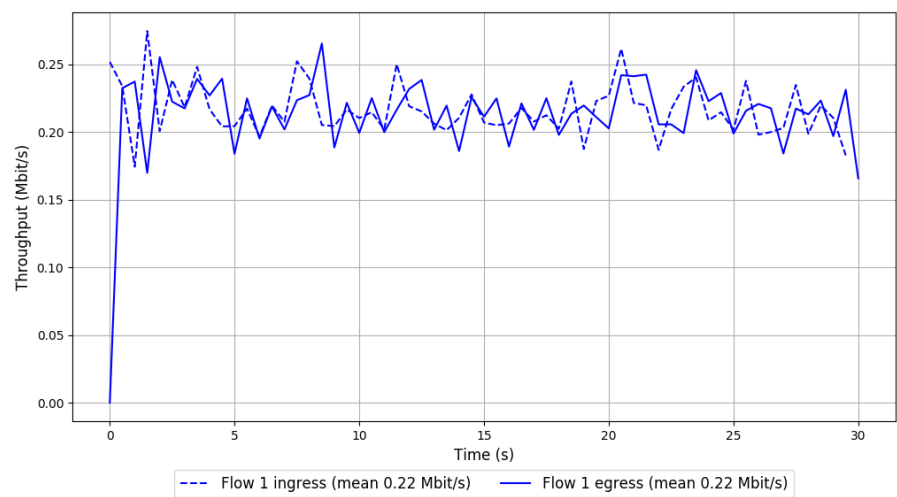


Run 5: Statistics of SCReAM

Start at: 2019-11-25 00:10:24  
End at: 2019-11-25 00:10:54  
Local clock offset: 0.009 ms  
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2019-11-25 02:19:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 56.993 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 56.993 ms  
Loss rate: 0.26%

Run 5: Report of SReAM — Data Link

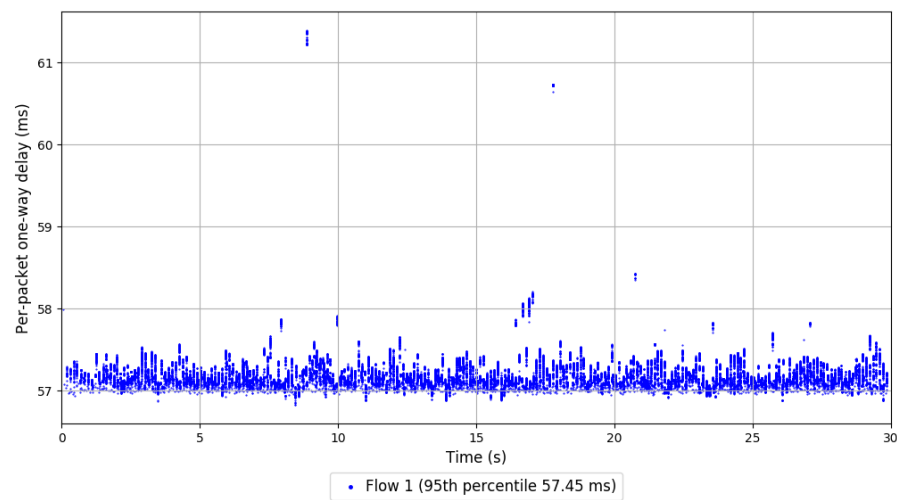
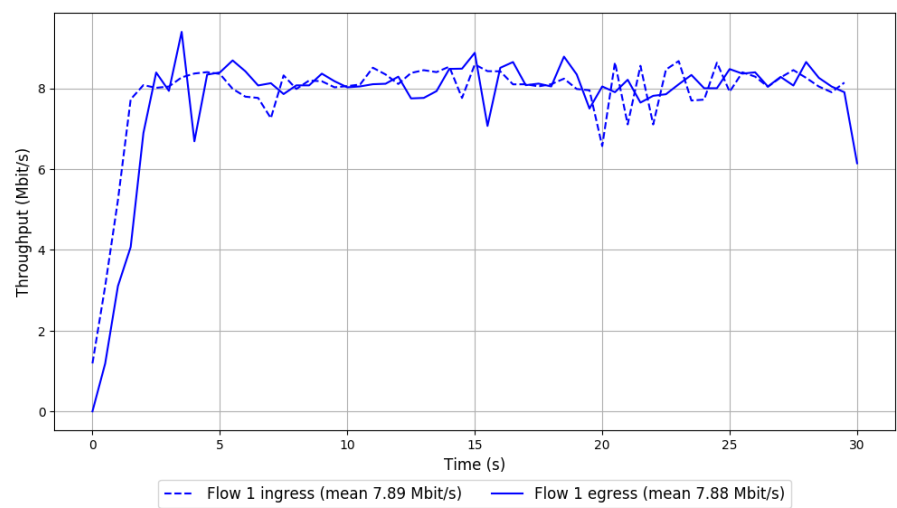


Run 1: Statistics of Sprout

Start at: 2019-11-24 21:39:22  
End at: 2019-11-24 21:39:52  
Local clock offset: -0.063 ms  
Remote clock offset: -0.199 ms

# Below is generated by plot.py at 2019-11-25 02:19:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.88 Mbit/s  
95th percentile per-packet one-way delay: 57.446 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 7.88 Mbit/s  
95th percentile per-packet one-way delay: 57.446 ms  
Loss rate: 0.42%

Run 1: Report of Sprout — Data Link

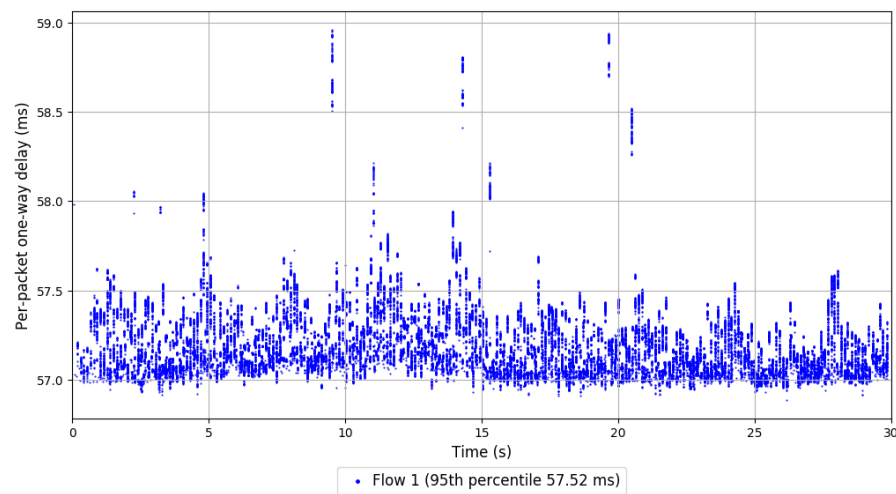
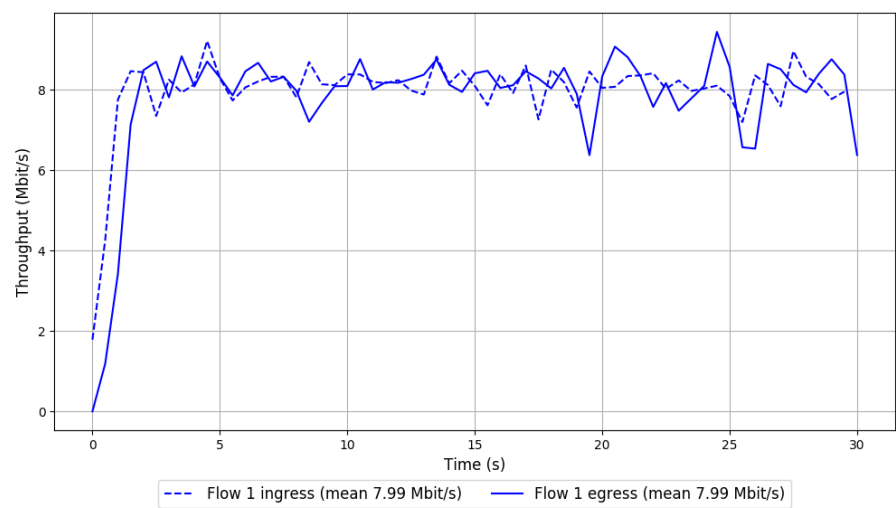


Run 2: Statistics of Sprout

Start at: 2019-11-24 22:14:18  
End at: 2019-11-24 22:14:48  
Local clock offset: -0.038 ms  
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2019-11-25 02:19:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.99 Mbit/s  
95th percentile per-packet one-way delay: 57.520 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 7.99 Mbit/s  
95th percentile per-packet one-way delay: 57.520 ms  
Loss rate: 0.43%

Run 2: Report of Sprout — Data Link

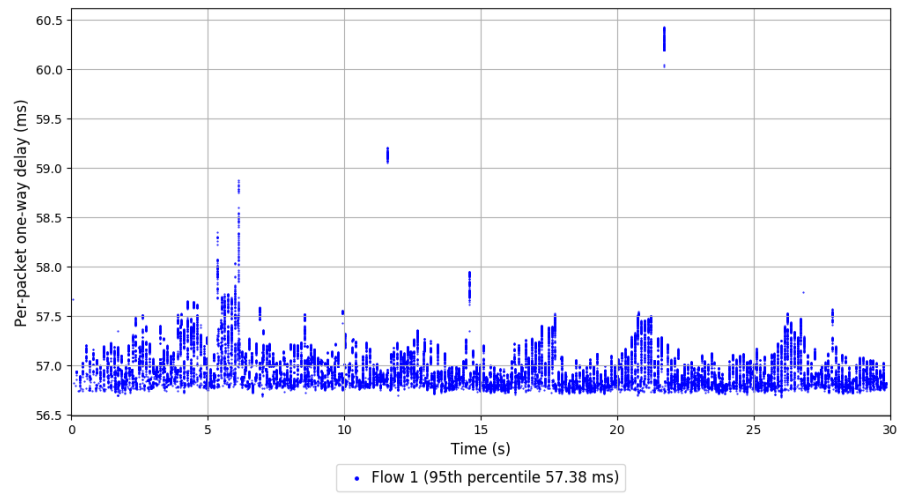
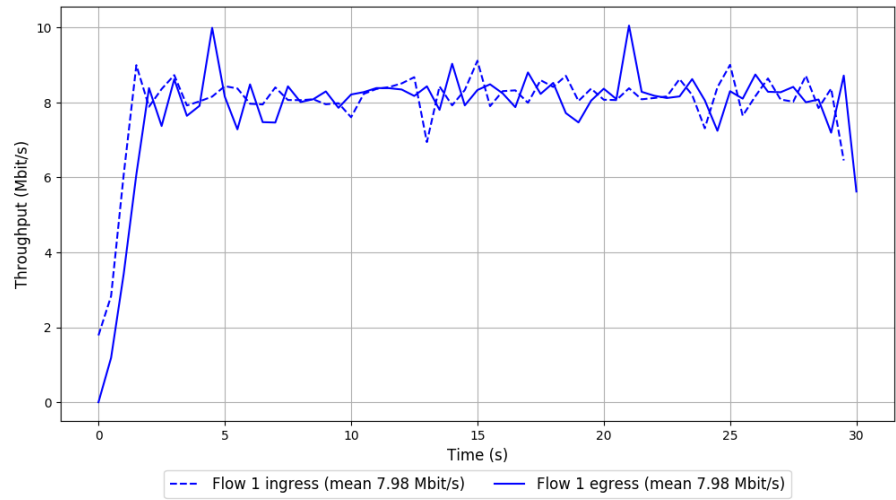


Run 3: Statistics of Sprout

Start at: 2019-11-24 22:49:34  
End at: 2019-11-24 22:50:04  
Local clock offset: -0.078 ms  
Remote clock offset: 0.069 ms

# Below is generated by plot.py at 2019-11-25 02:19:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.98 Mbit/s  
95th percentile per-packet one-way delay: 57.378 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 7.98 Mbit/s  
95th percentile per-packet one-way delay: 57.378 ms  
Loss rate: 0.38%

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

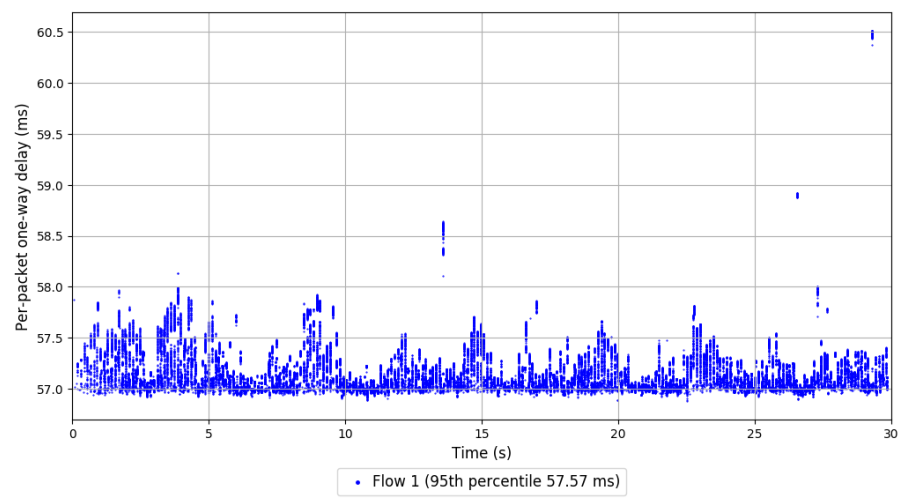
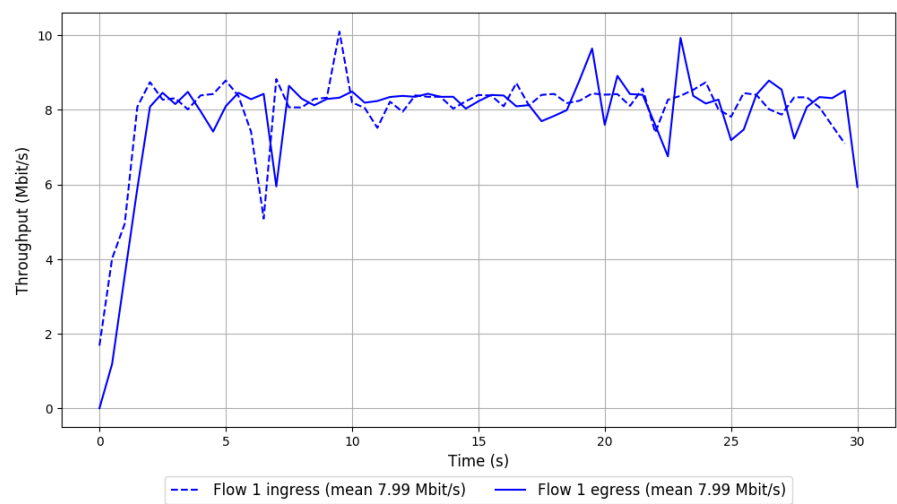


Run 4: Statistics of Sprout

Start at: 2019-11-24 23:24:52  
End at: 2019-11-24 23:25:22  
Local clock offset: -0.109 ms  
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2019-11-25 02:19:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.99 Mbit/s  
95th percentile per-packet one-way delay: 57.574 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 7.99 Mbit/s  
95th percentile per-packet one-way delay: 57.574 ms  
Loss rate: 0.42%

Run 4: Report of Sprout — Data Link

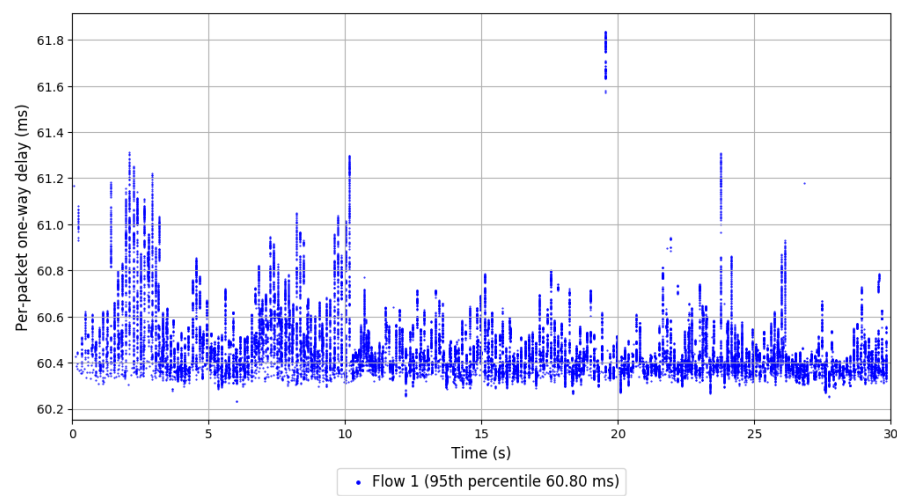
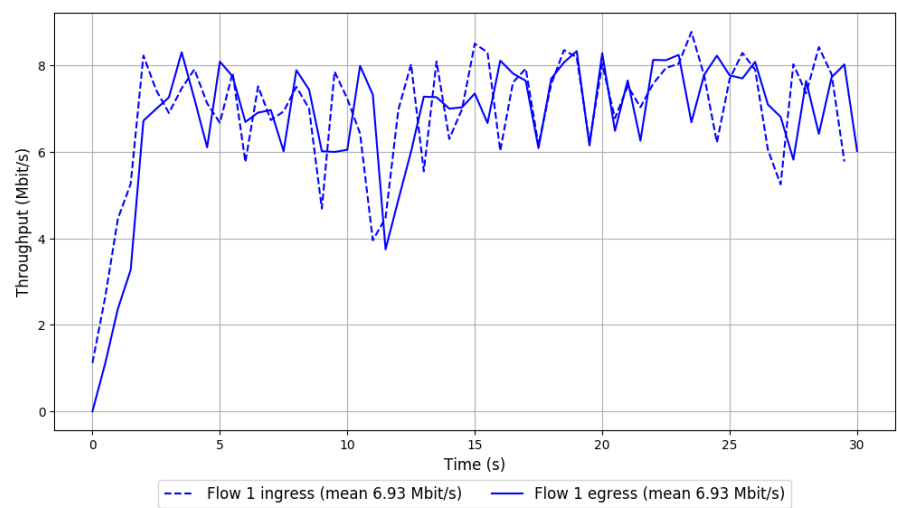


Run 5: Statistics of Sprout

Start at: 2019-11-25 00:00:02  
End at: 2019-11-25 00:00:32  
Local clock offset: -0.039 ms  
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2019-11-25 02:19:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 6.93 Mbit/s  
95th percentile per-packet one-way delay: 60.795 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 6.93 Mbit/s  
95th percentile per-packet one-way delay: 60.795 ms  
Loss rate: 0.37%

Run 5: Report of Sprout — Data Link

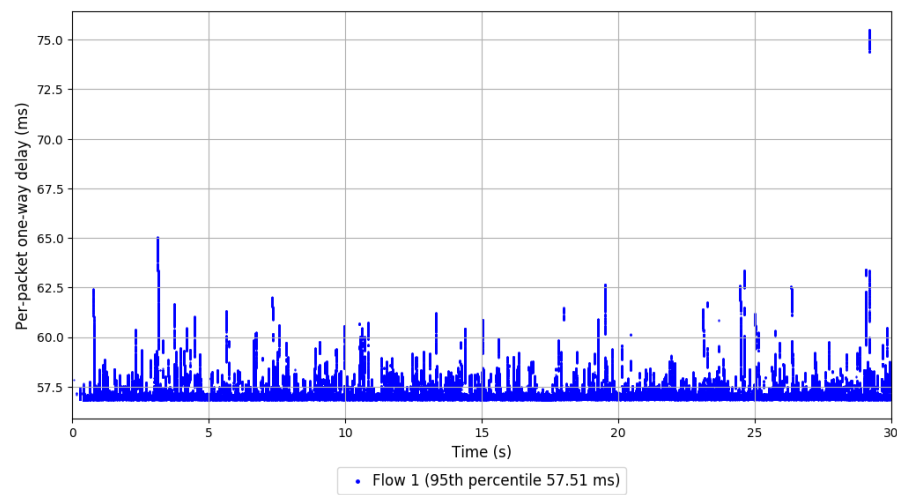
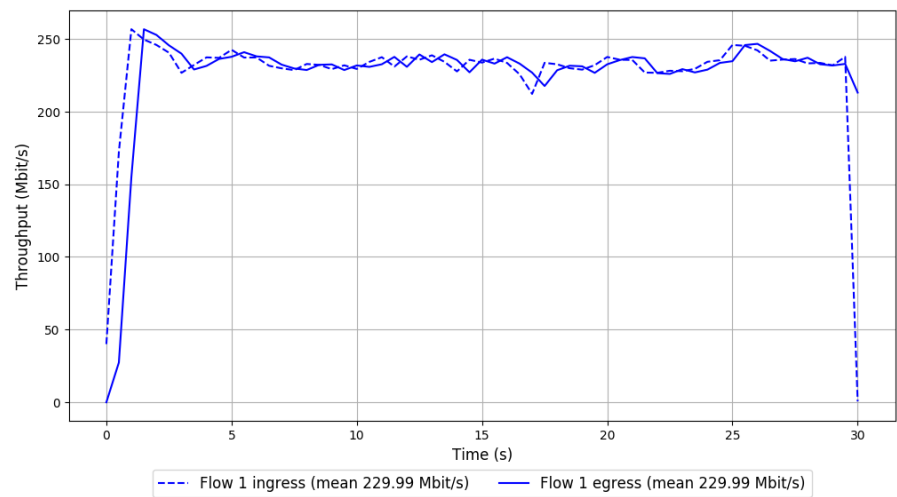


Run 1: Statistics of TaoVA-100x

Start at: 2019-11-24 21:36:38  
End at: 2019-11-24 21:37:08  
Local clock offset: -0.069 ms  
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2019-11-25 02:23:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 229.99 Mbit/s  
95th percentile per-packet one-way delay: 57.507 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 229.99 Mbit/s  
95th percentile per-packet one-way delay: 57.507 ms  
Loss rate: 0.39%

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

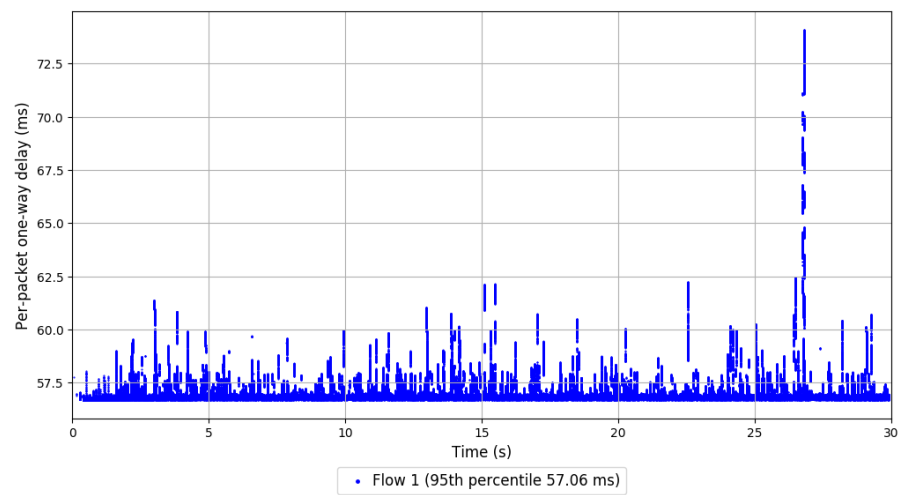
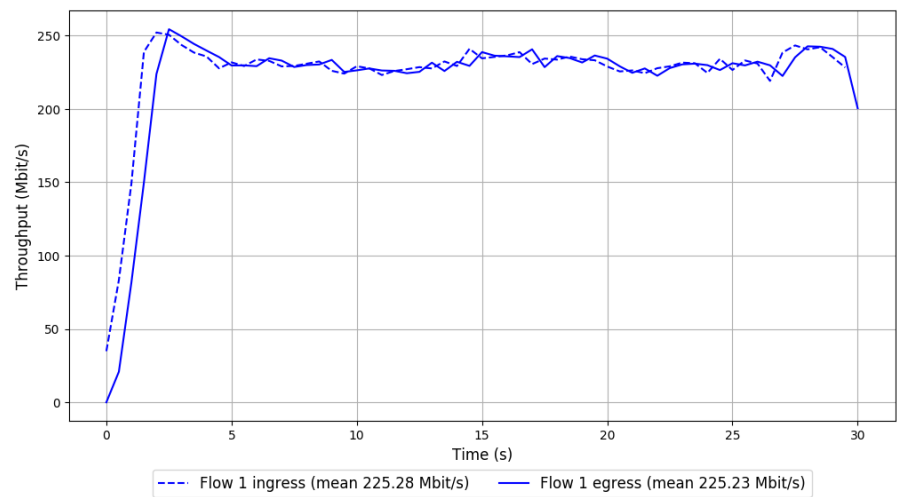


Run 2: Statistics of TaoVA-100x

Start at: 2019-11-24 22:11:39  
End at: 2019-11-24 22:12:09  
Local clock offset: -0.102 ms  
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2019-11-25 02:23:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 225.23 Mbit/s  
95th percentile per-packet one-way delay: 57.056 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 225.23 Mbit/s  
95th percentile per-packet one-way delay: 57.056 ms  
Loss rate: 0.41%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-11-24 22:46:51

End at: 2019-11-24 22:47:21

Local clock offset: -0.021 ms

Remote clock offset: 0.086 ms

# Below is generated by plot.py at 2019-11-25 02:23:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 229.10 Mbit/s

95th percentile per-packet one-way delay: 57.459 ms

Loss rate: 0.40%

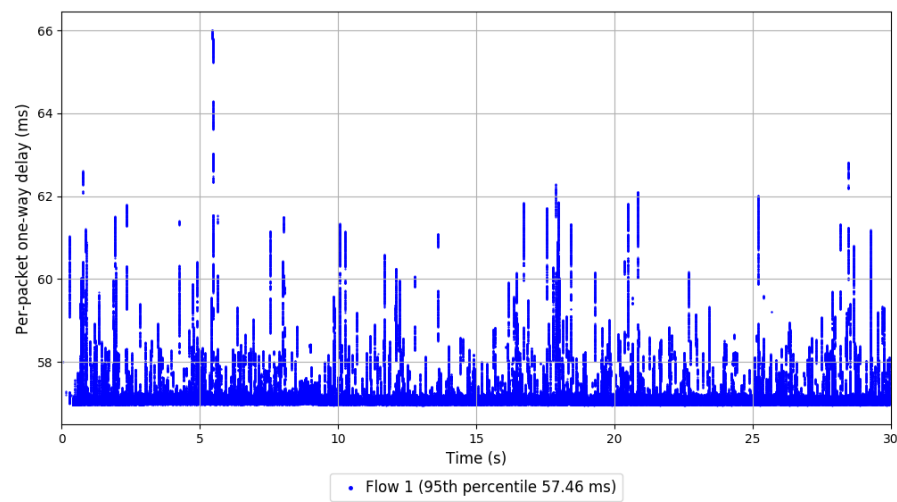
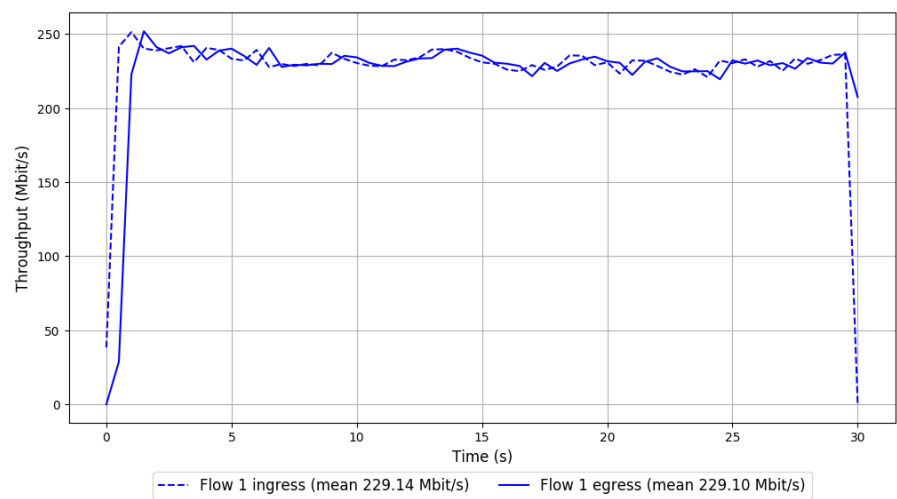
-- Flow 1:

Average throughput: 229.10 Mbit/s

95th percentile per-packet one-way delay: 57.459 ms

Loss rate: 0.40%

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

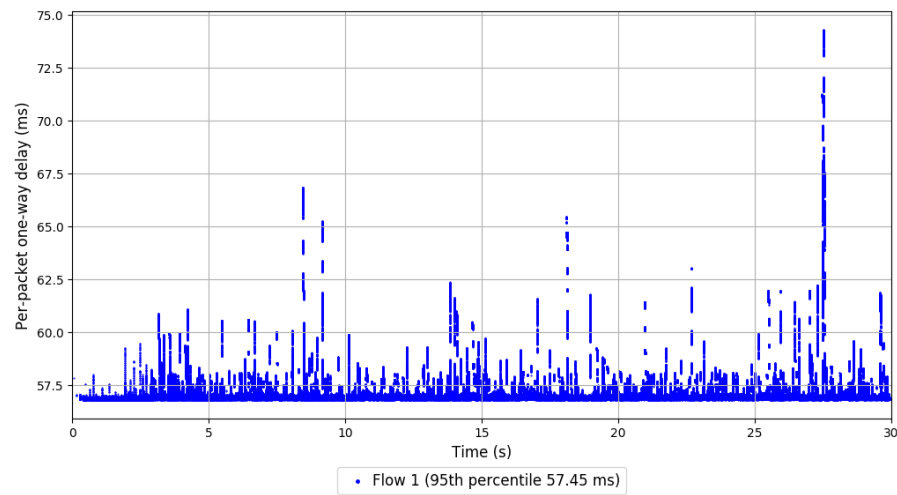
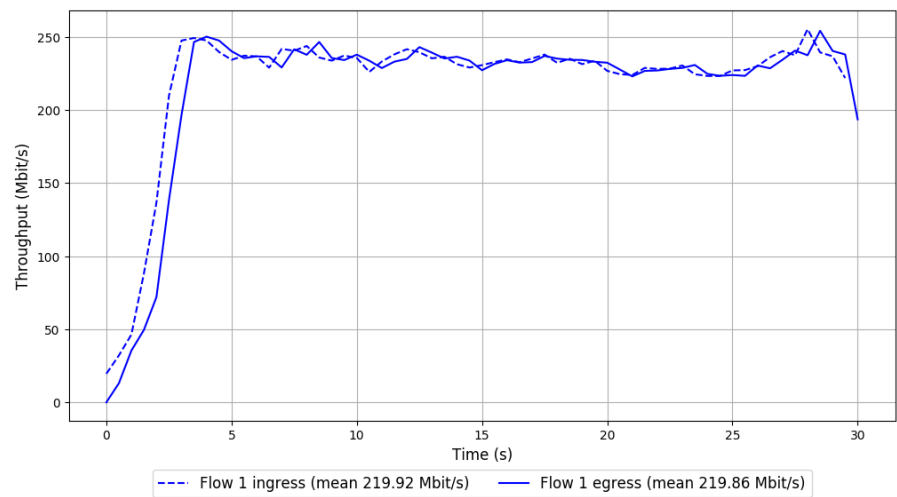


Run 4: Statistics of TaoVA-100x

Start at: 2019-11-24 23:22:08  
End at: 2019-11-24 23:22:38  
Local clock offset: -0.071 ms  
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2019-11-25 02:23:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 219.86 Mbit/s  
95th percentile per-packet one-way delay: 57.453 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 219.86 Mbit/s  
95th percentile per-packet one-way delay: 57.453 ms  
Loss rate: 0.42%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-11-24 23:57:16

End at: 2019-11-24 23:57:46

Local clock offset: -0.029 ms

Remote clock offset: -0.141 ms

# Below is generated by plot.py at 2019-11-25 02:23:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 224.74 Mbit/s

95th percentile per-packet one-way delay: 60.844 ms

Loss rate: 0.44%

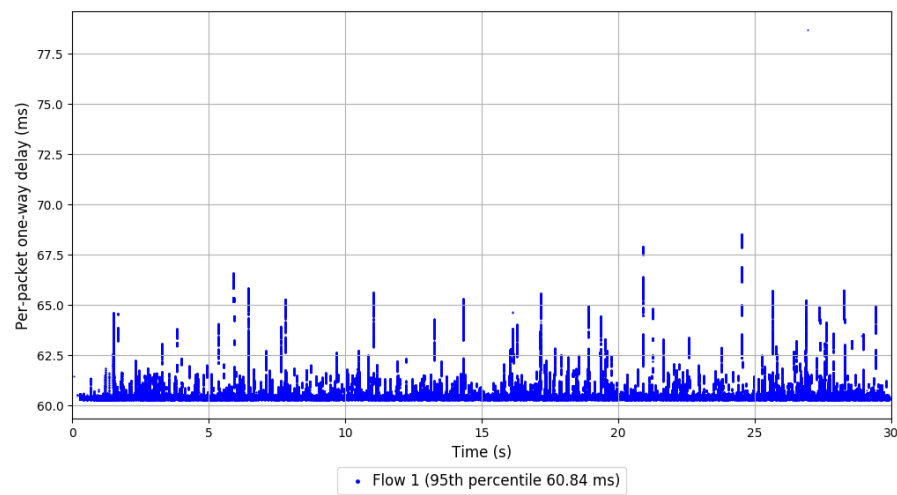
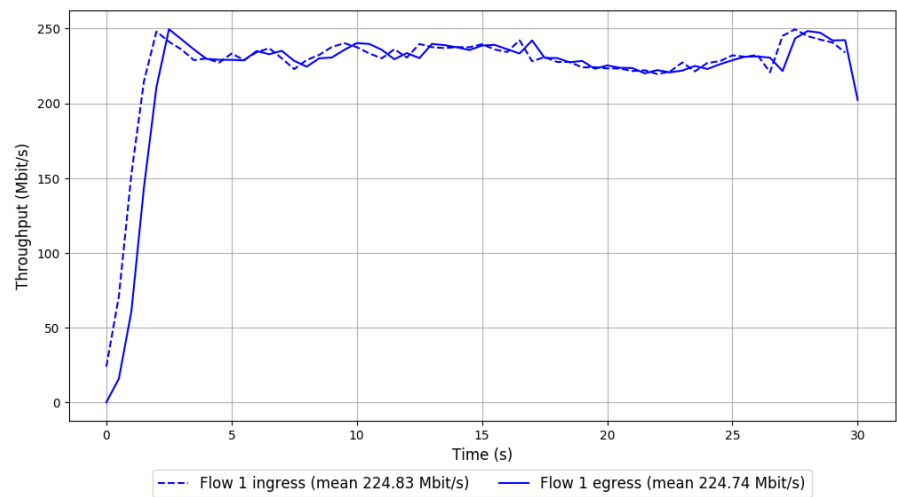
-- Flow 1:

Average throughput: 224.74 Mbit/s

95th percentile per-packet one-way delay: 60.844 ms

Loss rate: 0.44%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-11-24 21:46:44  
End at: 2019-11-24 21:47:14  
Local clock offset: -0.109 ms  
Remote clock offset: -0.147 ms

# Below is generated by plot.py at 2019-11-25 02:23:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 282.02 Mbit/s

95th percentile per-packet one-way delay: 77.020 ms

Loss rate: 0.31%

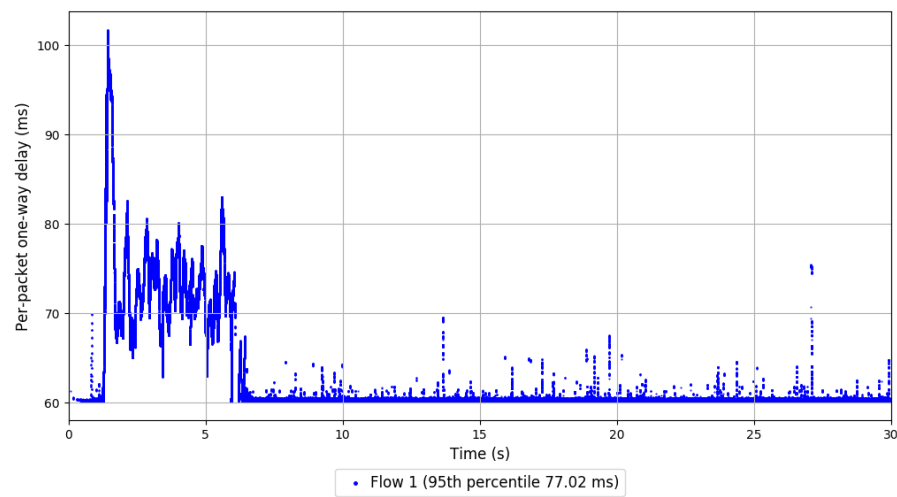
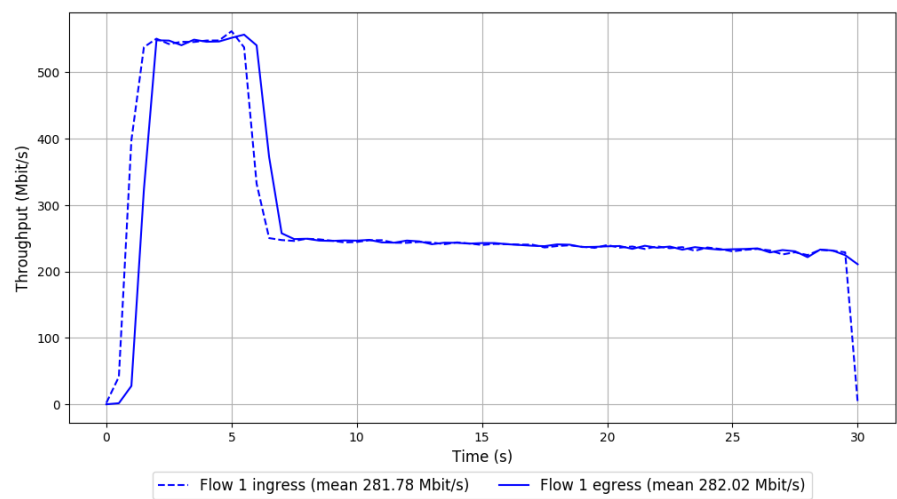
-- Flow 1:

Average throughput: 282.02 Mbit/s

95th percentile per-packet one-way delay: 77.020 ms

Loss rate: 0.31%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-11-24 22:21:49

End at: 2019-11-24 22:22:19

Local clock offset: -0.06 ms

Remote clock offset: 0.102 ms

# Below is generated by plot.py at 2019-11-25 02:27:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 495.93 Mbit/s

95th percentile per-packet one-way delay: 57.610 ms

Loss rate: 0.40%

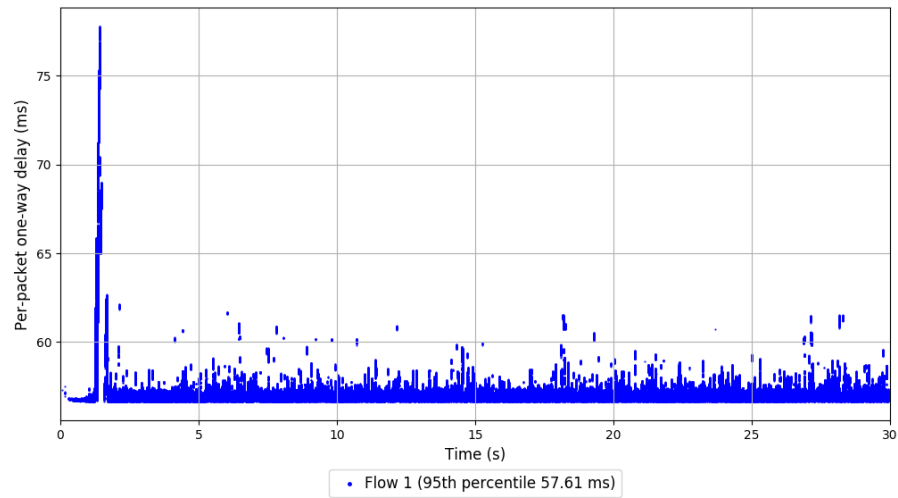
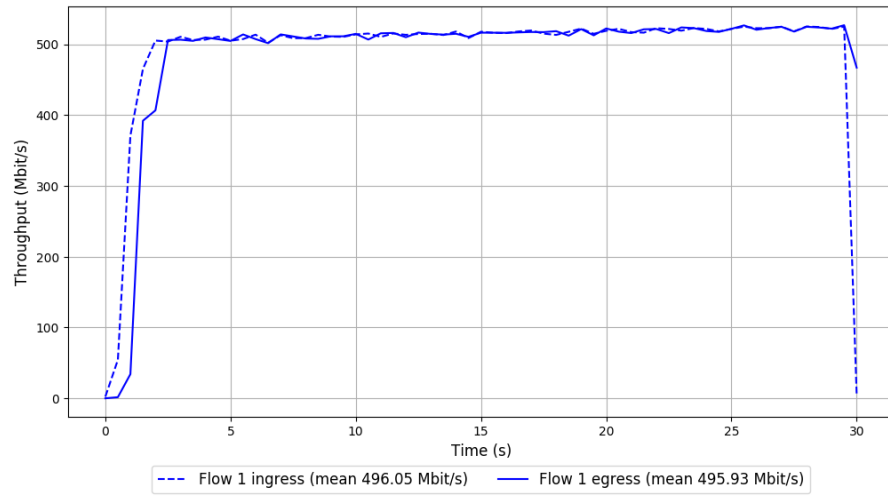
-- Flow 1:

Average throughput: 495.93 Mbit/s

95th percentile per-packet one-way delay: 57.610 ms

Loss rate: 0.40%

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

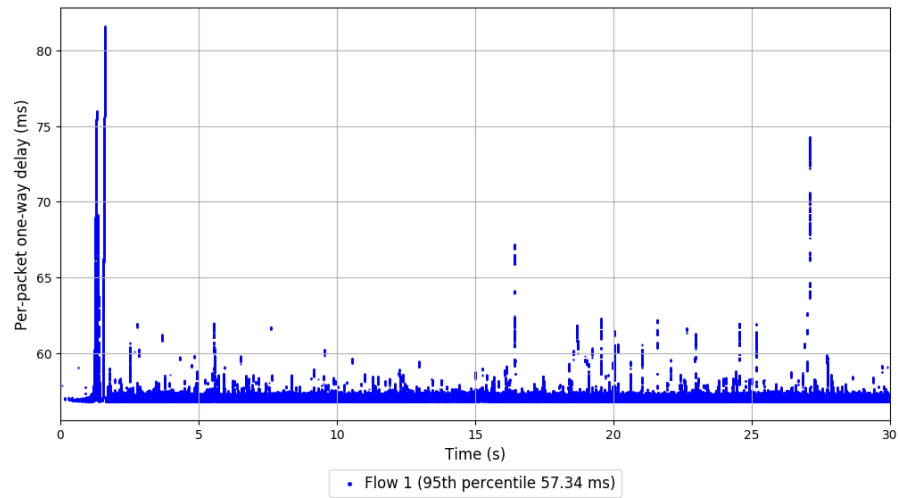
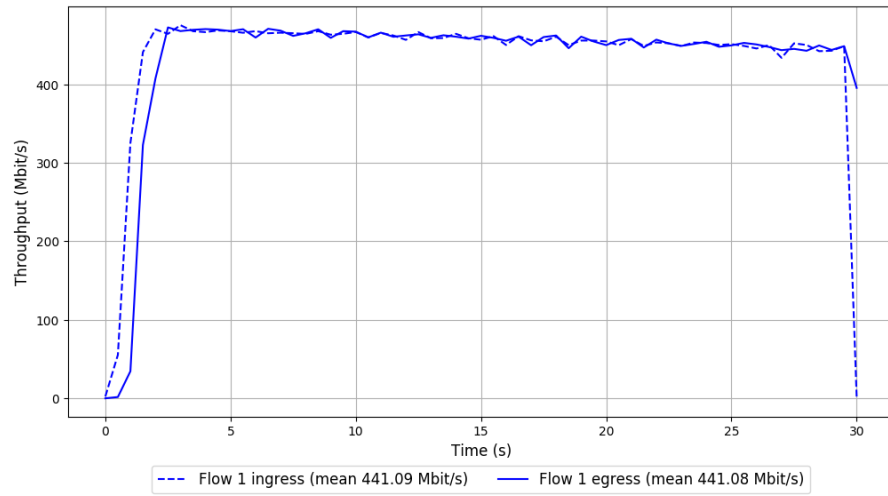


Run 3: Statistics of TCP Vegas

Start at: 2019-11-24 22:56:57  
End at: 2019-11-24 22:57:27  
Local clock offset: -0.028 ms  
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2019-11-25 02:29:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 441.08 Mbit/s  
95th percentile per-packet one-way delay: 57.335 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 441.08 Mbit/s  
95th percentile per-packet one-way delay: 57.335 ms  
Loss rate: 0.39%

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

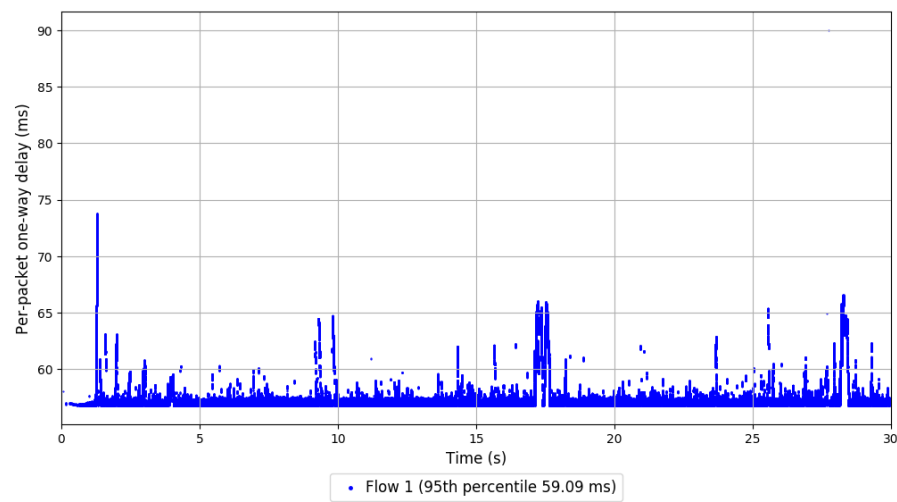
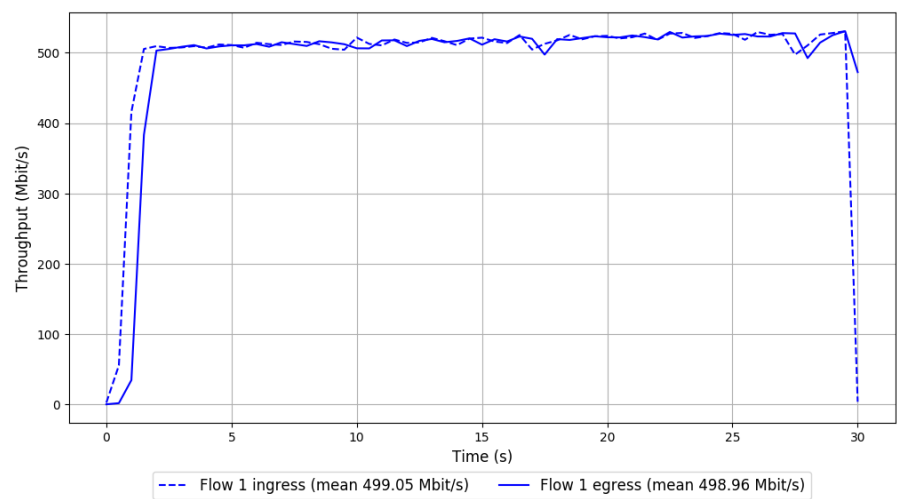


Run 4: Statistics of TCP Vegas

Start at: 2019-11-24 23:32:19  
End at: 2019-11-24 23:32:49  
Local clock offset: -0.084 ms  
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2019-11-25 02:30:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 498.96 Mbit/s  
95th percentile per-packet one-way delay: 59.089 ms  
Loss rate: 0.40%  
-- Flow 1:  
Average throughput: 498.96 Mbit/s  
95th percentile per-packet one-way delay: 59.089 ms  
Loss rate: 0.40%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-11-25 00:07:28

End at: 2019-11-25 00:07:58

Local clock offset: -0.019 ms

Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2019-11-25 02:30:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 252.42 Mbit/s

95th percentile per-packet one-way delay: 57.237 ms

Loss rate: 0.35%

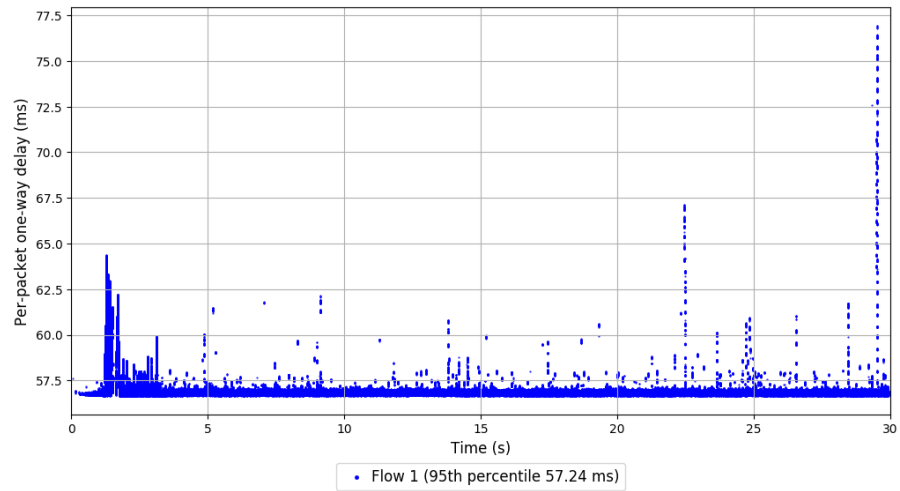
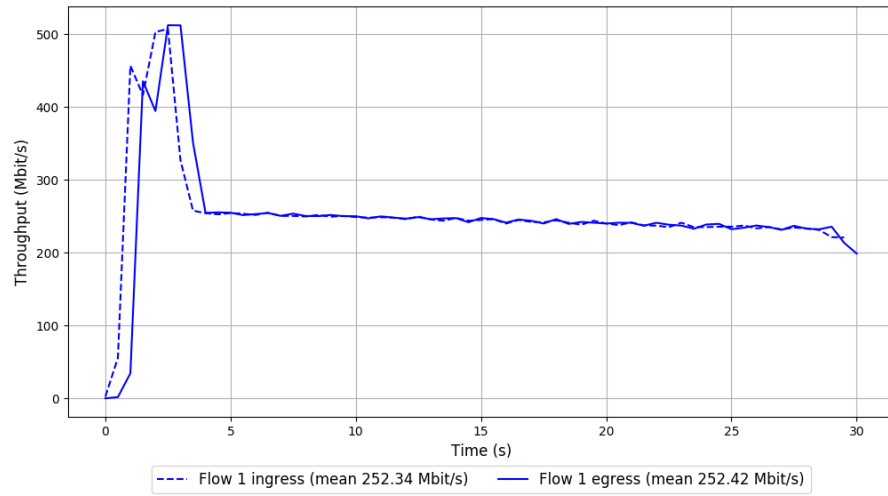
-- Flow 1:

Average throughput: 252.42 Mbit/s

95th percentile per-packet one-way delay: 57.237 ms

Loss rate: 0.35%

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

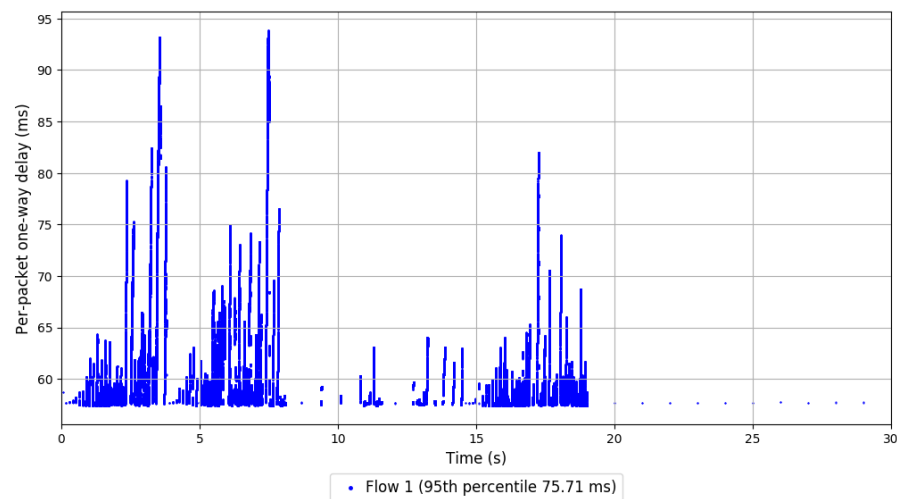
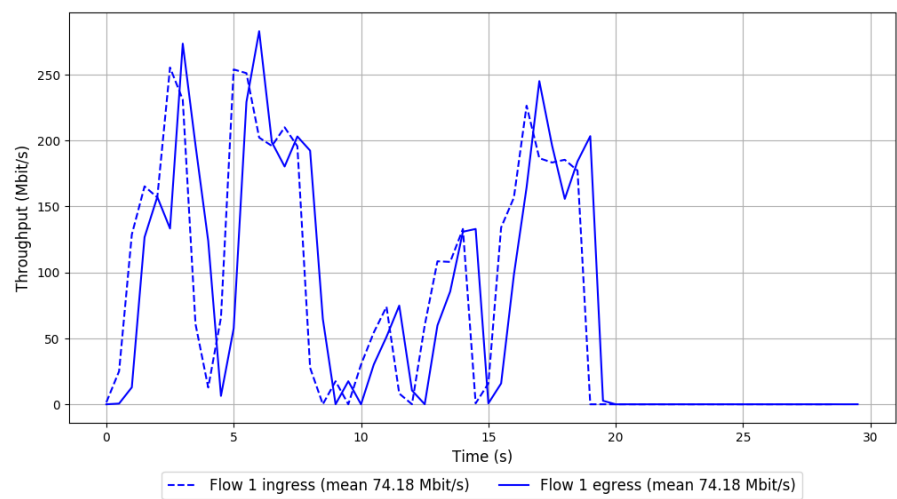


Run 1: Statistics of Verus

Start at: 2019-11-24 21:38:06  
End at: 2019-11-24 21:38:37  
Local clock offset: 0.28 ms  
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2019-11-25 02:30:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 74.18 Mbit/s  
95th percentile per-packet one-way delay: 75.711 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 74.18 Mbit/s  
95th percentile per-packet one-way delay: 75.711 ms  
Loss rate: 0.00%

Run 1: Report of Verus — Data Link

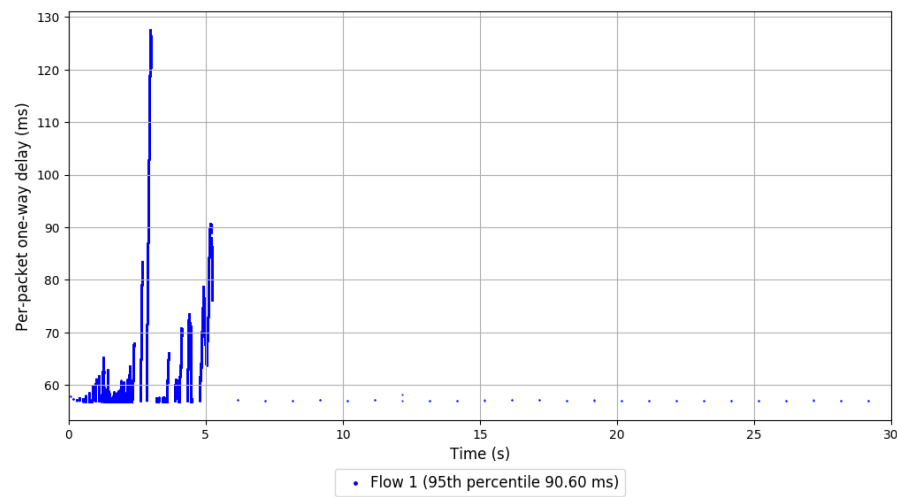
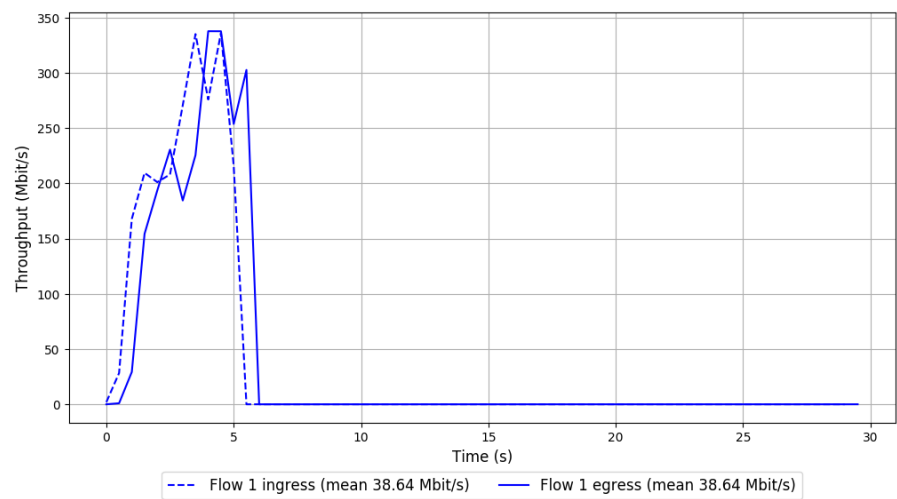


Run 2: Statistics of Verus

Start at: 2019-11-24 22:13:07  
End at: 2019-11-24 22:13:37  
Local clock offset: -0.12 ms  
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2019-11-25 02:30:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 38.64 Mbit/s  
95th percentile per-packet one-way delay: 90.601 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 38.64 Mbit/s  
95th percentile per-packet one-way delay: 90.601 ms  
Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-11-24 22:48:20

End at: 2019-11-24 22:48:50

Local clock offset: 0.277 ms

Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2019-11-25 02:30:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 71.82 Mbit/s

95th percentile per-packet one-way delay: 77.406 ms

Loss rate: 0.00%

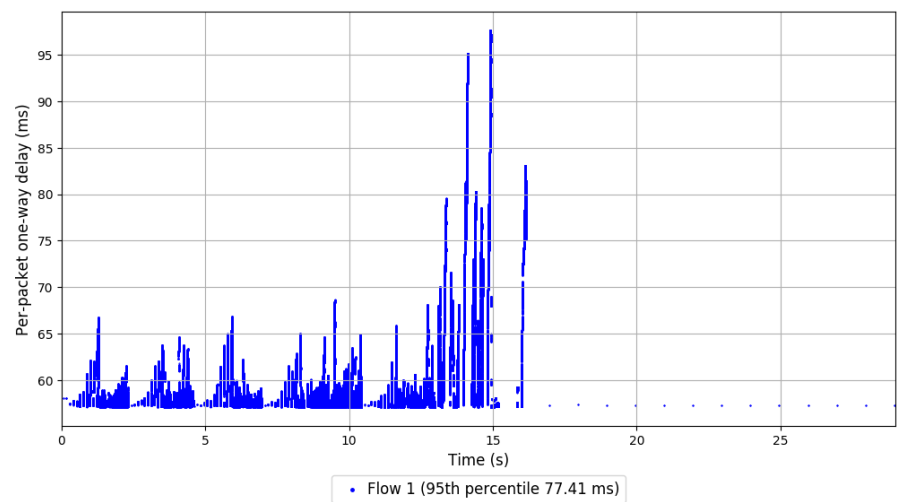
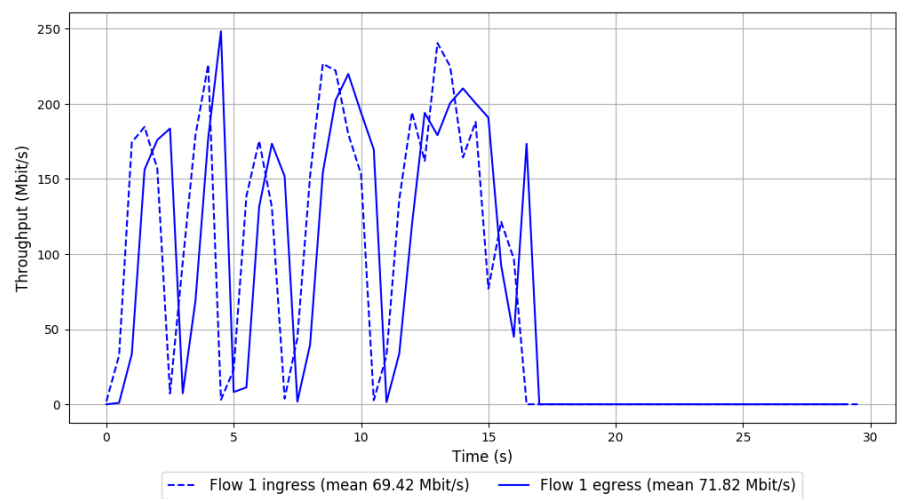
-- Flow 1:

Average throughput: 71.82 Mbit/s

95th percentile per-packet one-way delay: 77.406 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link

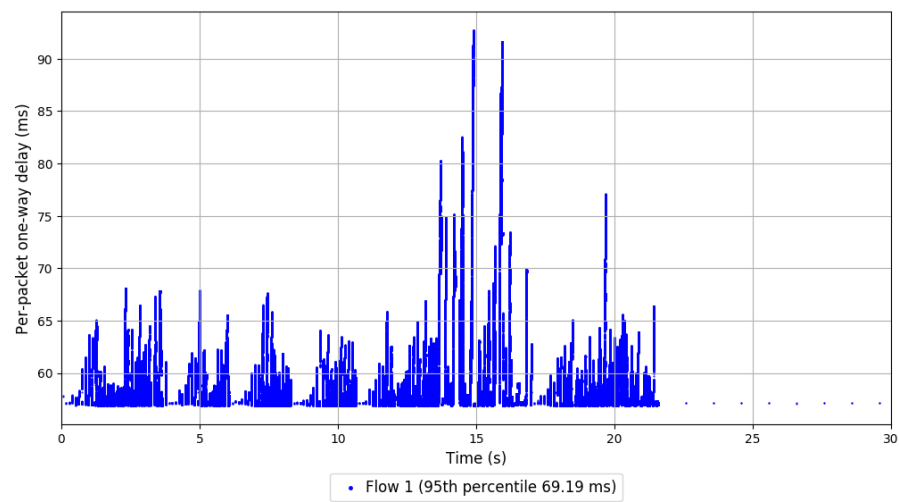
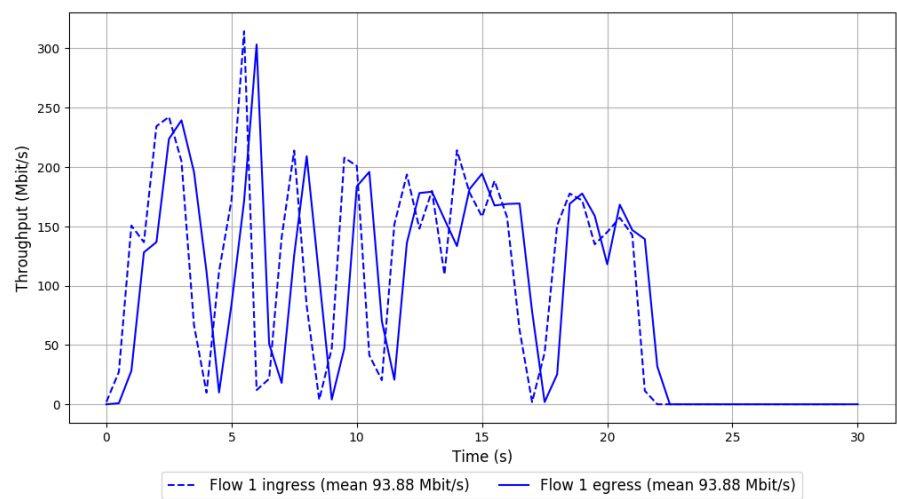


Run 4: Statistics of Verus

Start at: 2019-11-24 23:23:36  
End at: 2019-11-24 23:24:06  
Local clock offset: 0.009 ms  
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-11-25 02:30:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 93.88 Mbit/s  
95th percentile per-packet one-way delay: 69.190 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 93.88 Mbit/s  
95th percentile per-packet one-way delay: 69.190 ms  
Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-11-24 23:58:44

End at: 2019-11-24 23:59:14

Local clock offset: 0.323 ms

Remote clock offset: 0.053 ms

# Below is generated by plot.py at 2019-11-25 02:30:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 106.46 Mbit/s

95th percentile per-packet one-way delay: 104.227 ms

Loss rate: 0.59%

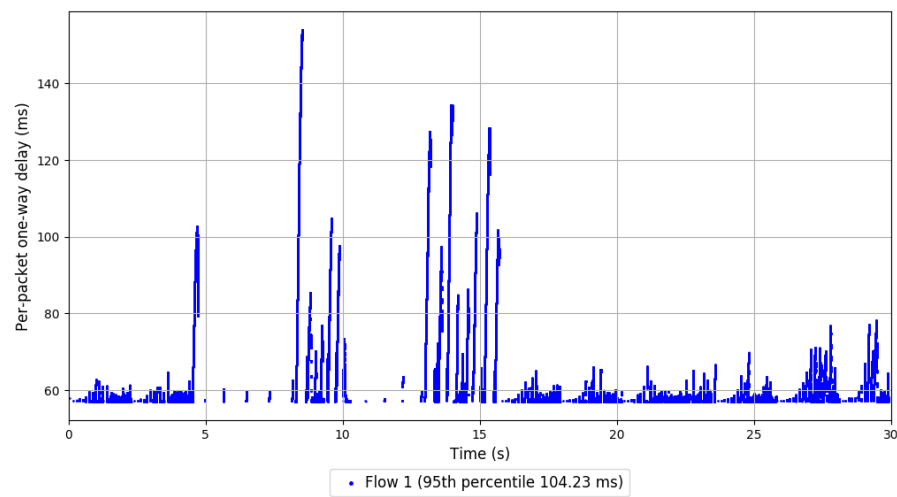
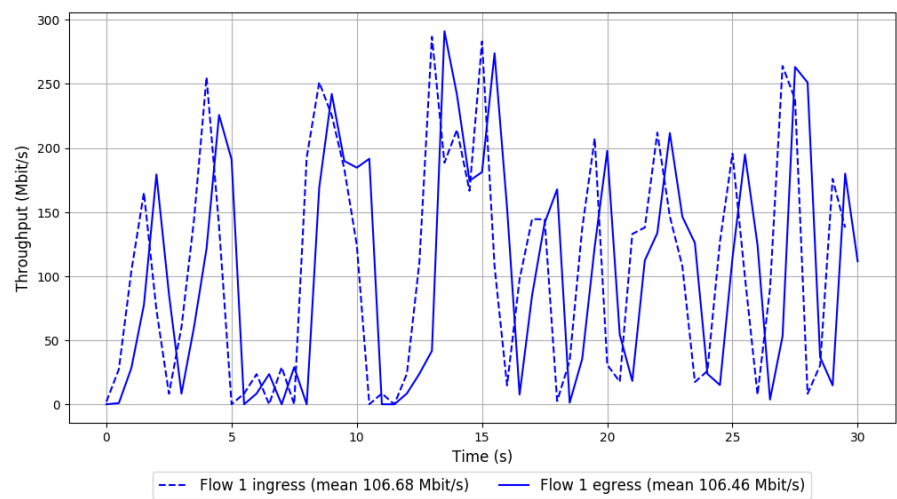
-- Flow 1:

Average throughput: 106.46 Mbit/s

95th percentile per-packet one-way delay: 104.227 ms

Loss rate: 0.59%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-11-24 21:42:04

End at: 2019-11-24 21:42:34

Local clock offset: 0.277 ms

Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2019-11-25 02:31:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 355.23 Mbit/s

95th percentile per-packet one-way delay: 59.195 ms

Loss rate: 0.49%

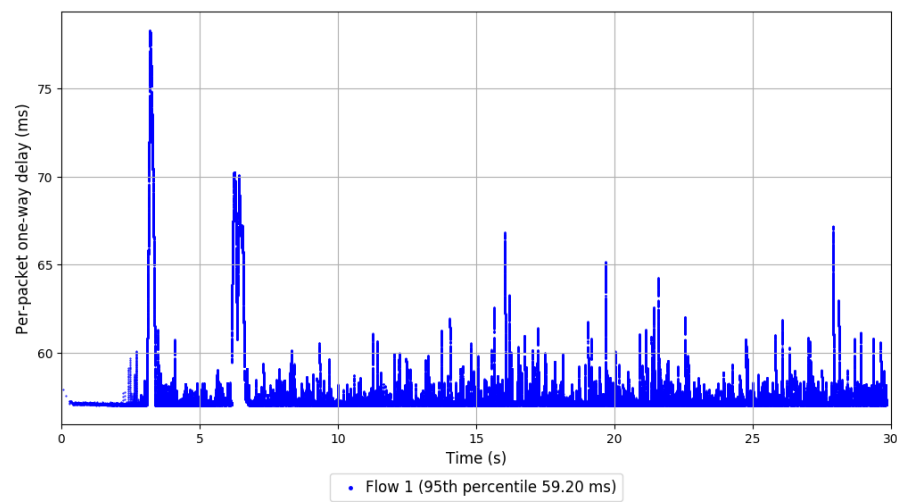
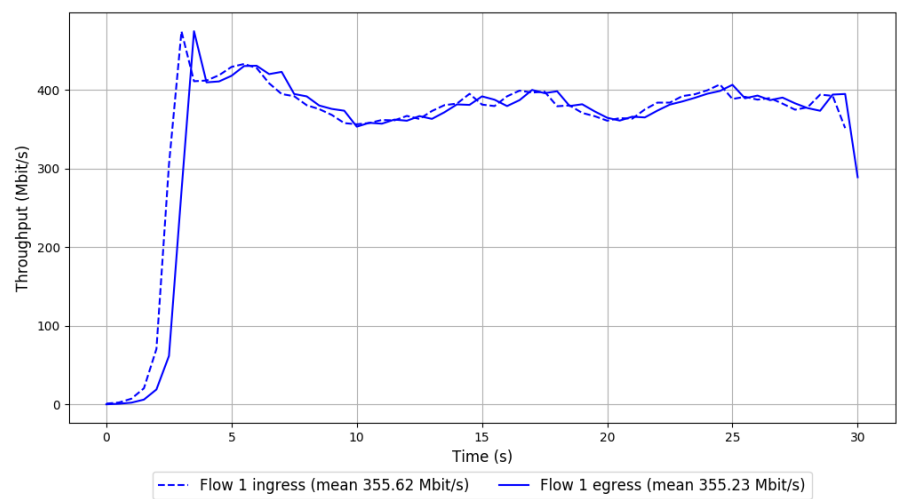
-- Flow 1:

Average throughput: 355.23 Mbit/s

95th percentile per-packet one-way delay: 59.195 ms

Loss rate: 0.49%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-11-24 22:17:03

End at: 2019-11-24 22:17:33

Local clock offset: -0.036 ms

Remote clock offset: 0.052 ms

# Below is generated by plot.py at 2019-11-25 02:31:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 329.11 Mbit/s

95th percentile per-packet one-way delay: 57.684 ms

Loss rate: 0.48%

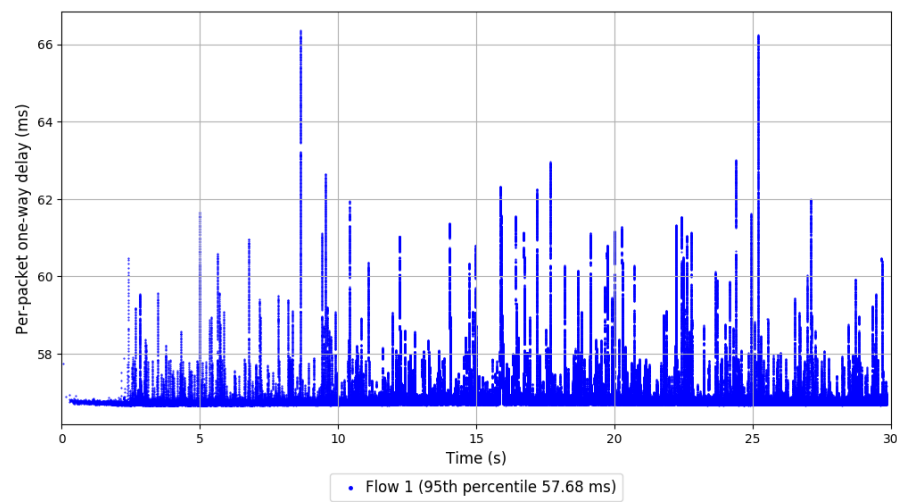
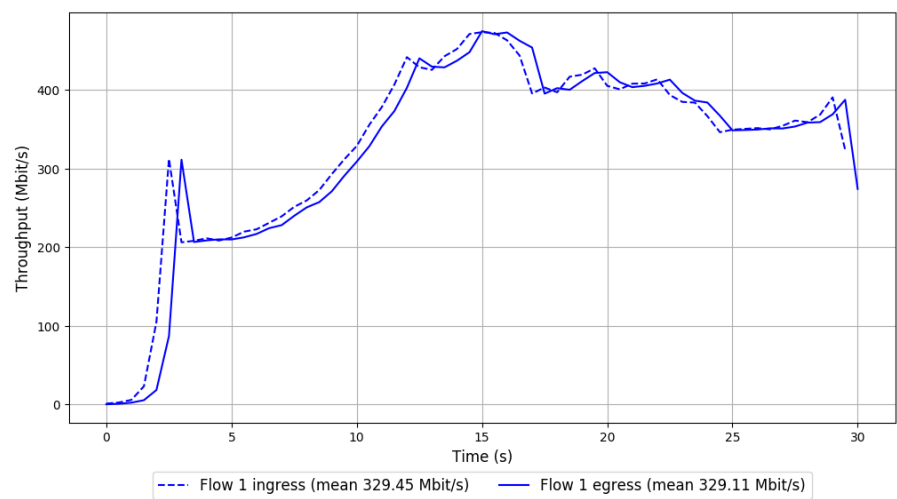
-- Flow 1:

Average throughput: 329.11 Mbit/s

95th percentile per-packet one-way delay: 57.684 ms

Loss rate: 0.48%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-11-24 22:52:16

End at: 2019-11-24 22:52:46

Local clock offset: -0.04 ms

Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-11-25 02:32:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 344.55 Mbit/s

95th percentile per-packet one-way delay: 58.476 ms

Loss rate: 0.48%

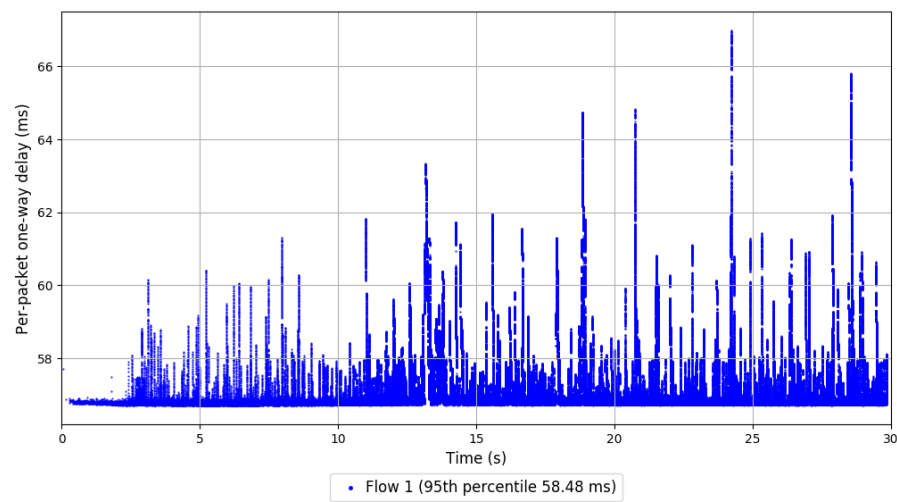
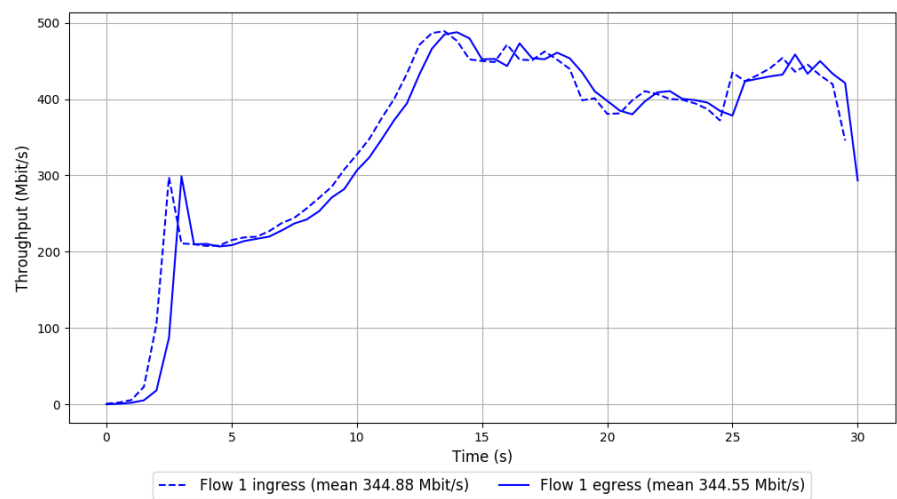
-- Flow 1:

Average throughput: 344.55 Mbit/s

95th percentile per-packet one-way delay: 58.476 ms

Loss rate: 0.48%

Run 3: Report of PCC-Vivace — Data Link

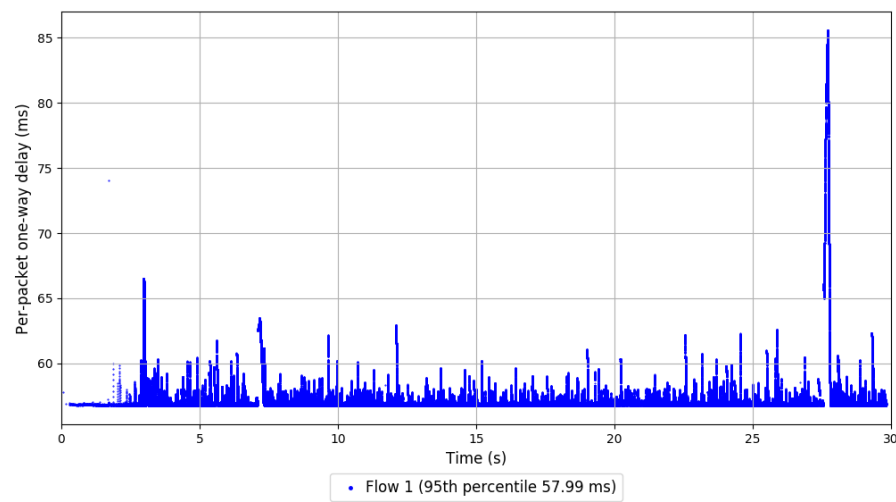
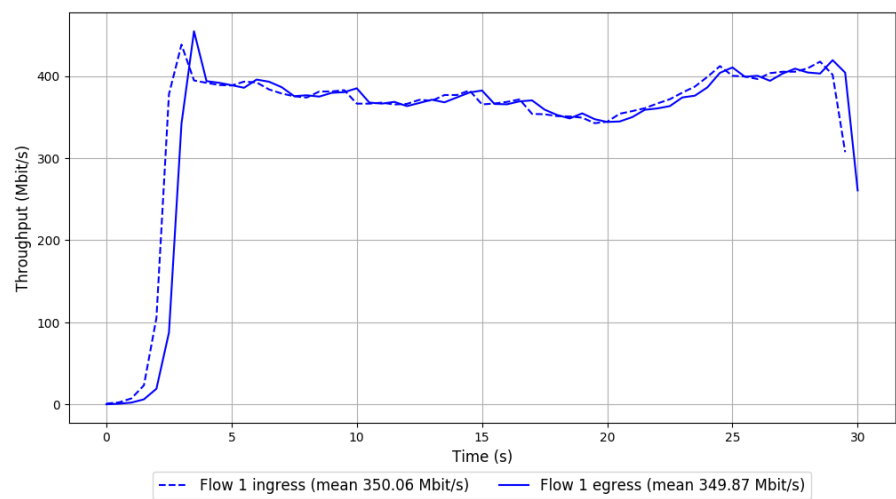


Run 4: Statistics of PCC-Vivace

Start at: 2019-11-24 23:27:38  
End at: 2019-11-24 23:28:08  
Local clock offset: -0.096 ms  
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2019-11-25 02:32:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 349.87 Mbit/s  
95th percentile per-packet one-way delay: 57.992 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 349.87 Mbit/s  
95th percentile per-packet one-way delay: 57.992 ms  
Loss rate: 0.44%

Run 4: Report of PCC-Vivace — Data Link

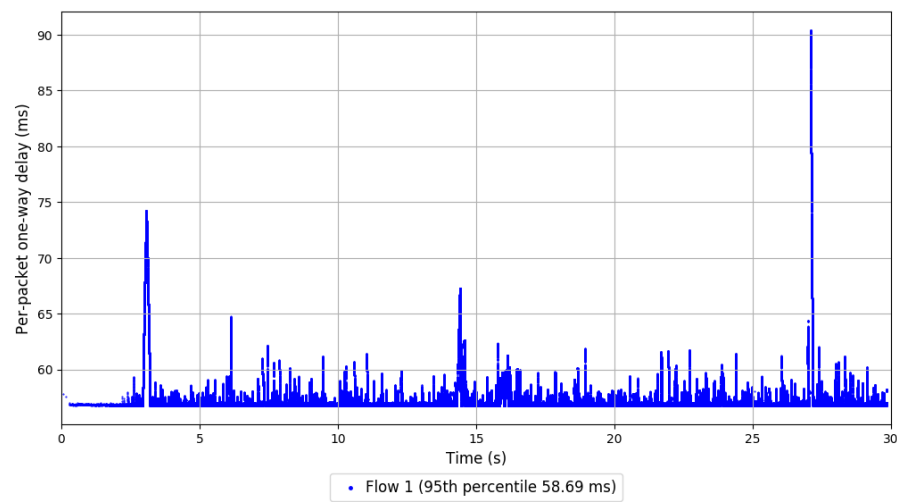
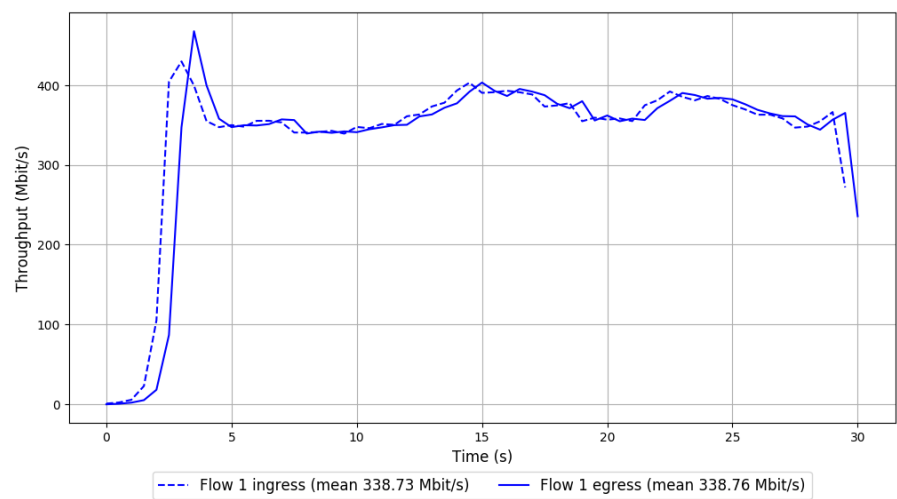


Run 5: Statistics of PCC-Vivace

Start at: 2019-11-25 00:02:45  
End at: 2019-11-25 00:03:15  
Local clock offset: -0.026 ms  
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2019-11-25 02:32:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 338.76 Mbit/s  
95th percentile per-packet one-way delay: 58.689 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 338.76 Mbit/s  
95th percentile per-packet one-way delay: 58.689 ms  
Loss rate: 0.38%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

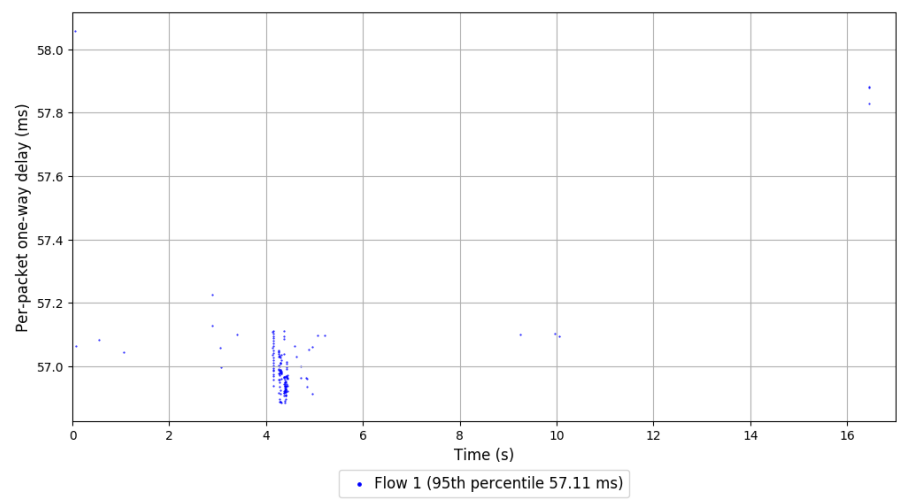
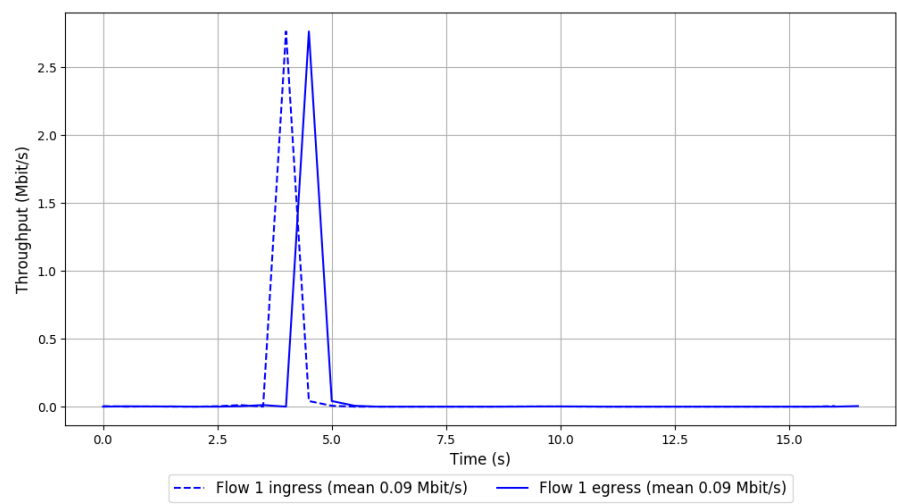
Start at: 2019-11-24 21:23:46

End at: 2019-11-24 21:24:16

Local clock offset: -0.022 ms

Remote clock offset: -0.157 ms

Run 1: Report of WebRTC media — Data Link

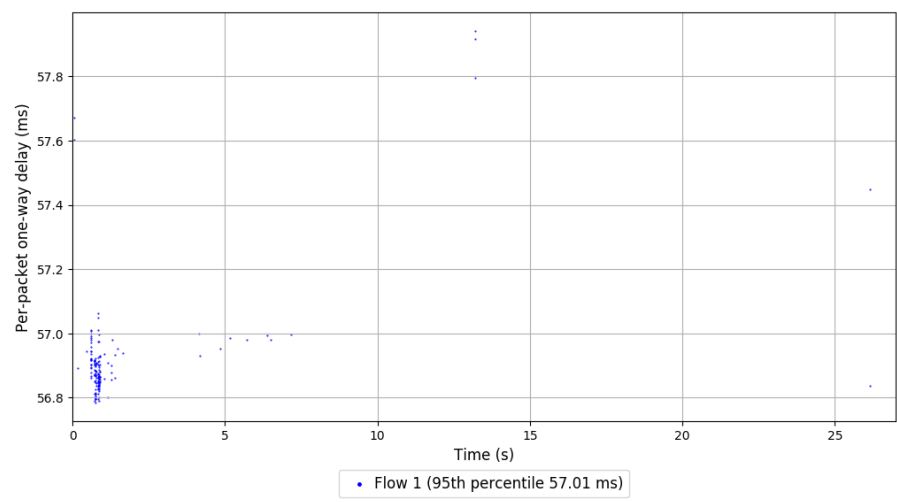
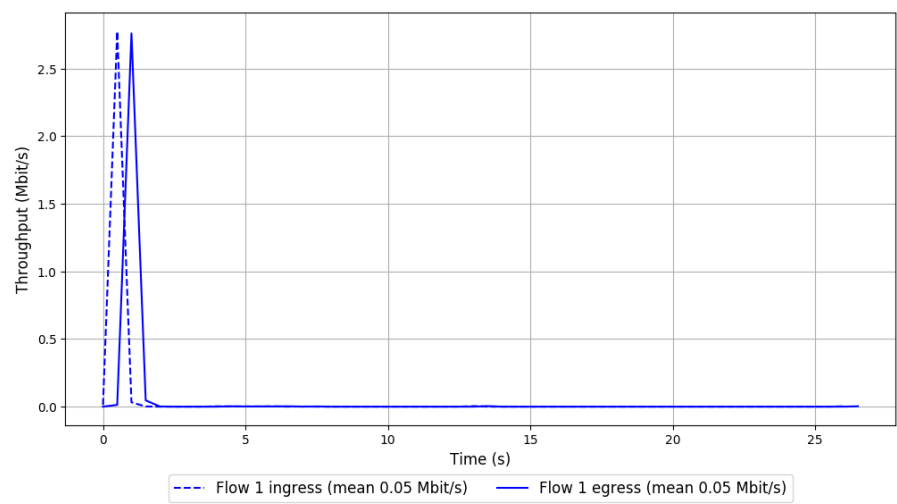


Run 2: Statistics of WebRTC media

Start at: 2019-11-24 21:58:35  
End at: 2019-11-24 21:59:05  
Local clock offset: -0.097 ms  
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2019-11-25 02:32:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 57.011 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 57.011 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-11-24 22:33:54

End at: 2019-11-24 22:34:24

Local clock offset: -0.02 ms

Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2019-11-25 02:32:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 57.250 ms

Loss rate: 0.00%

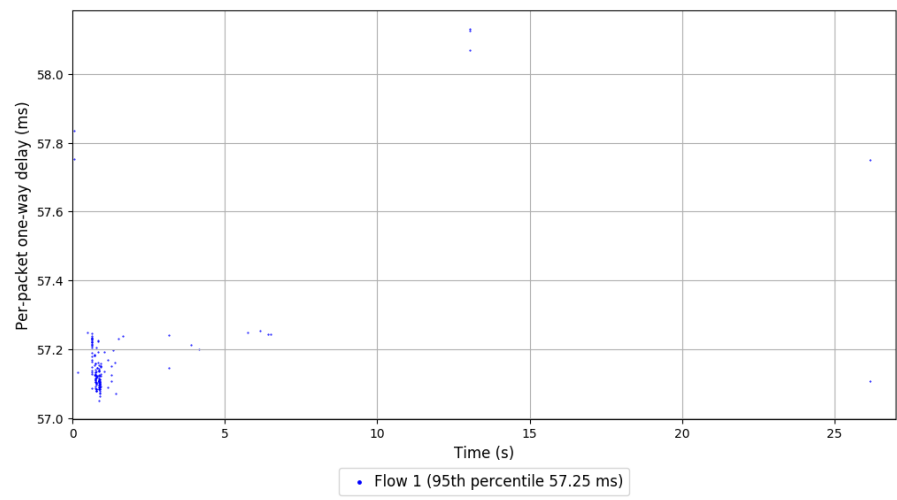
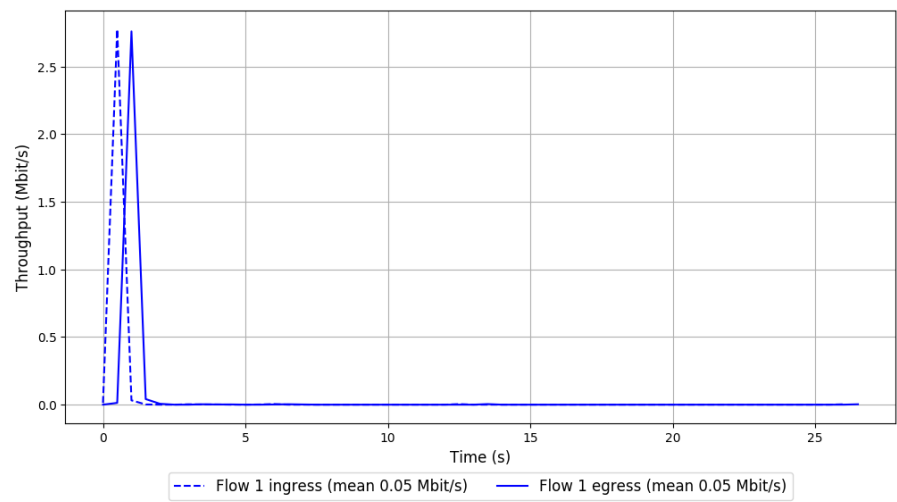
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 57.250 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

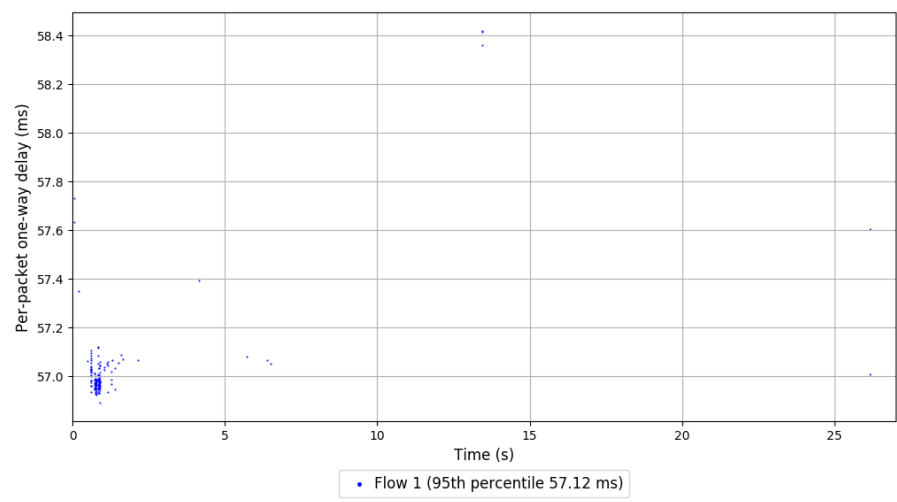
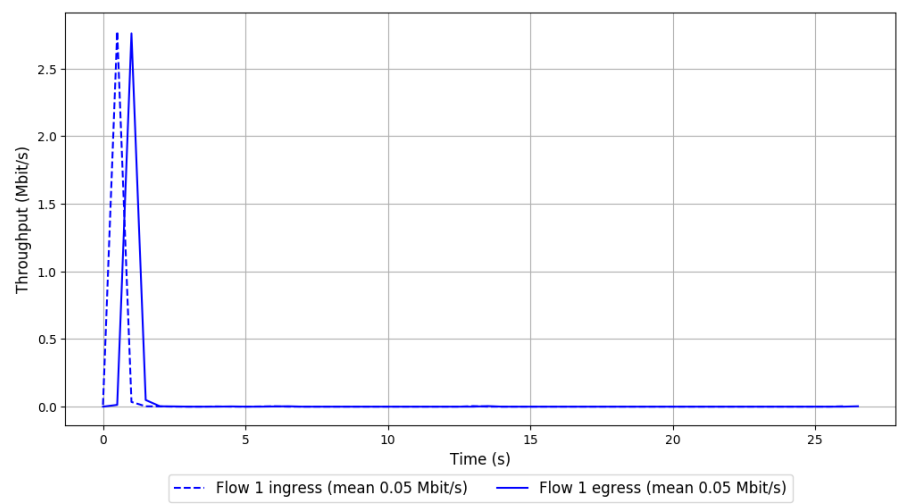


Run 4: Statistics of WebRTC media

Start at: 2019-11-24 23:08:57  
End at: 2019-11-24 23:09:27  
Local clock offset: -0.075 ms  
Remote clock offset: -0.225 ms

# Below is generated by plot.py at 2019-11-25 02:32:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 57.119 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 57.119 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-11-24 23:44:21  
End at: 2019-11-24 23:44:51  
Local clock offset: -0.061 ms  
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2019-11-25 02:32:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 57.039 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 57.039 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

