

Pantheon Report

Generated at 2019-11-24 14:50:41 (UTC).

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

Repeated the test of 24 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

System info:

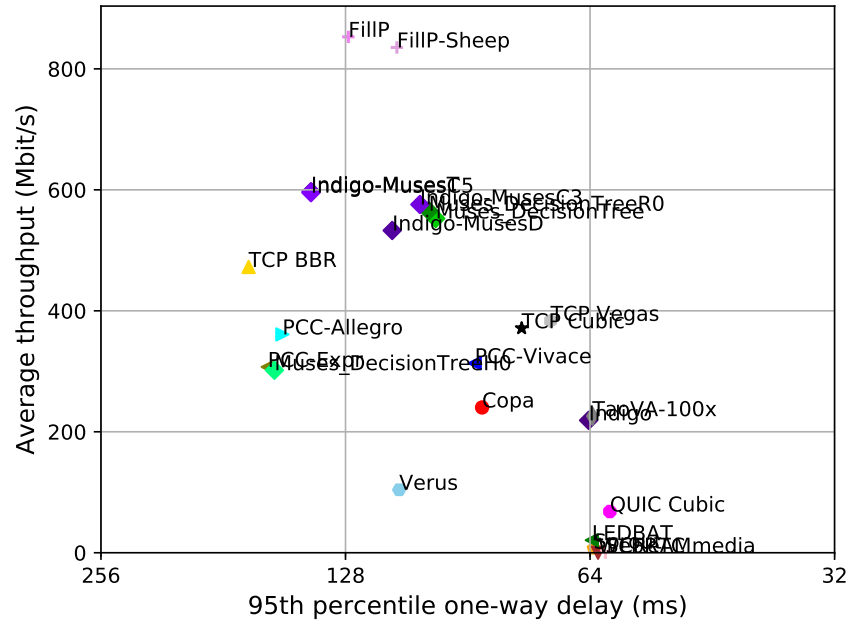
```
Linux 4.15.0-1044-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

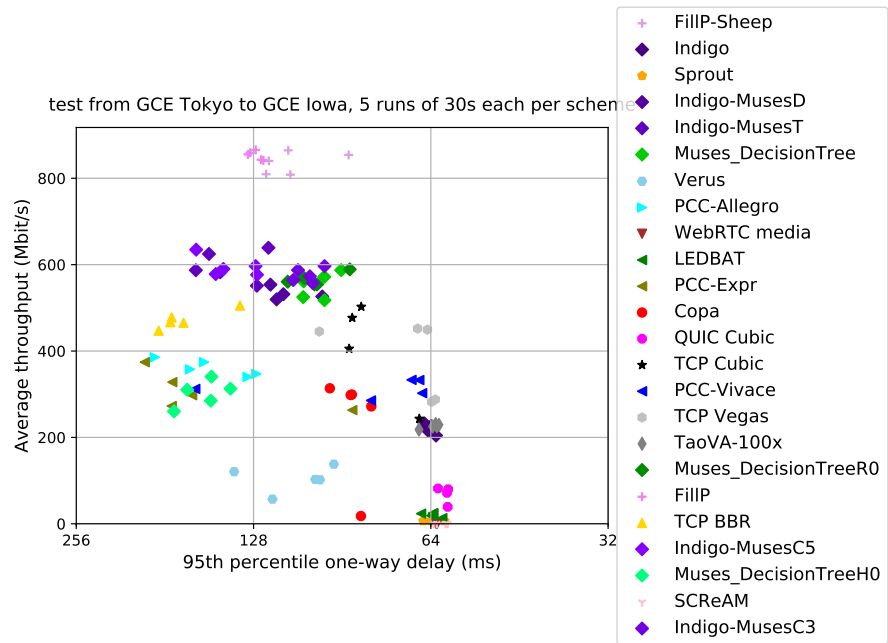
Git summary:

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





scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	472.50	168.45	1.14
Copa	5	240.21	86.91	0.35
TCP Cubic	5	371.15	77.69	0.51
FillP	5	852.88	126.98	1.23
FillP-Sheep	5	835.39	110.65	0.78
Indigo	5	218.92	64.25	0.42
Indigo-MusesC3	5	575.79	103.67	0.45
Indigo-MusesC5	5	595.28	141.17	0.69
Indigo-MusesD	4	532.80	112.13	0.49
Indigo-MusesT	5	596.92	141.14	0.69
LEDBAT	5	20.80	63.68	0.64
Muses_DecisionTree	5	552.63	99.11	0.44
Muses_DecisionTreeH0	5	301.84	156.57	2.32
Muses_DecisionTreeR0	5	565.42	101.12	0.42
PCC-Allegro	5	360.95	153.08	1.46
PCC-Expr	5	307.17	159.55	5.89
QUIC Cubic	4	68.17	60.51	0.28
SCReAM	5	0.22	61.27	0.41
Sprout	5	6.87	63.37	0.43
TaoVA-100x	5	225.85	63.59	0.44
TCP Vegas	5	383.39	71.58	0.40
Verus	5	104.10	109.94	0.28
PCC-Vivace	5	313.30	88.76	0.45
WebRTC media	2	0.05	62.57	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-11-24 10:00:43

End at: 2019-11-24 10:01:13

Local clock offset: -0.143 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2019-11-24 13:10:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 505.26 Mbit/s

95th percentile per-packet one-way delay: 134.965 ms

Loss rate: 1.06%

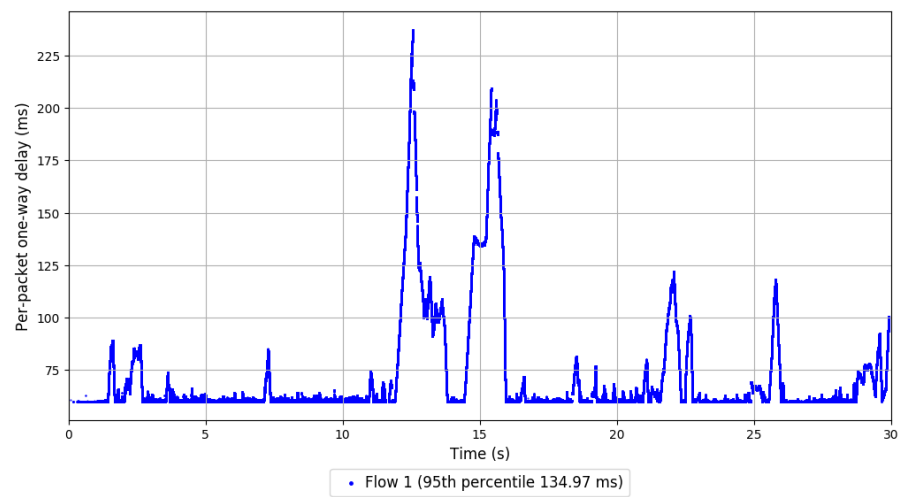
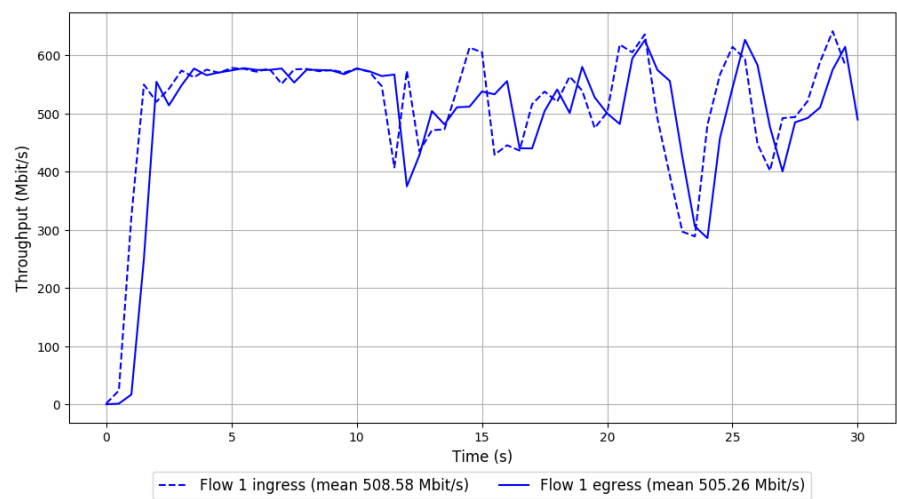
-- Flow 1:

Average throughput: 505.26 Mbit/s

95th percentile per-packet one-way delay: 134.965 ms

Loss rate: 1.06%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-11-24 10:35:17

End at: 2019-11-24 10:35:47

Local clock offset: 0.012 ms

Remote clock offset: 0.115 ms

Below is generated by plot.py at 2019-11-24 13:10:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 477.87 Mbit/s

95th percentile per-packet one-way delay: 176.275 ms

Loss rate: 1.09%

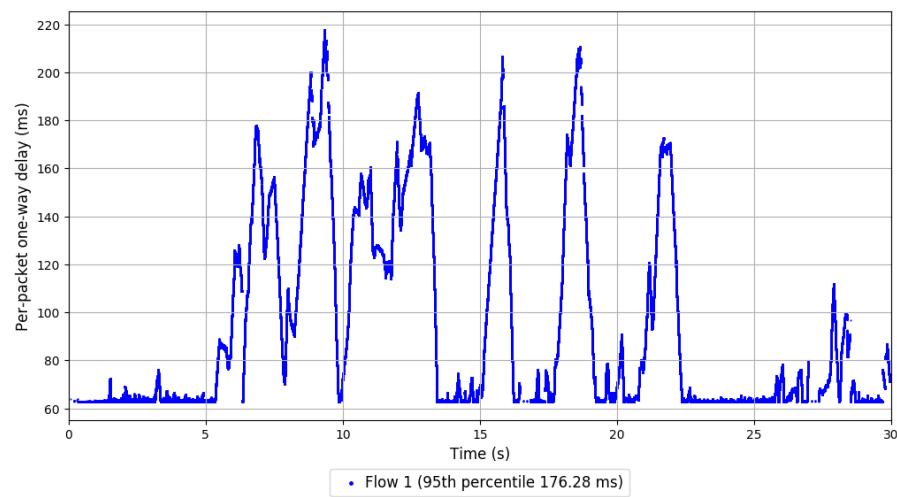
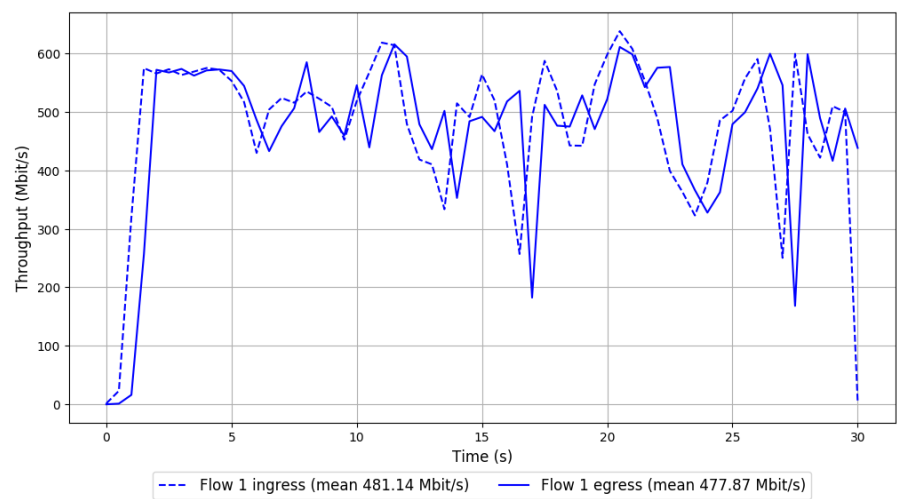
-- Flow 1:

Average throughput: 477.87 Mbit/s

95th percentile per-packet one-way delay: 176.275 ms

Loss rate: 1.09%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-11-24 11:09:49

End at: 2019-11-24 11:10:19

Local clock offset: -0.073 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2019-11-24 13:10:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 465.32 Mbit/s

95th percentile per-packet one-way delay: 168.302 ms

Loss rate: 1.21%

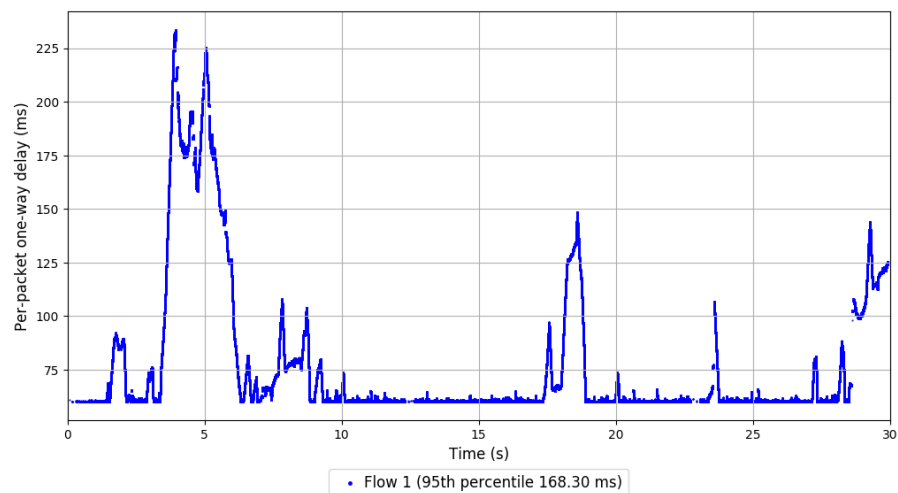
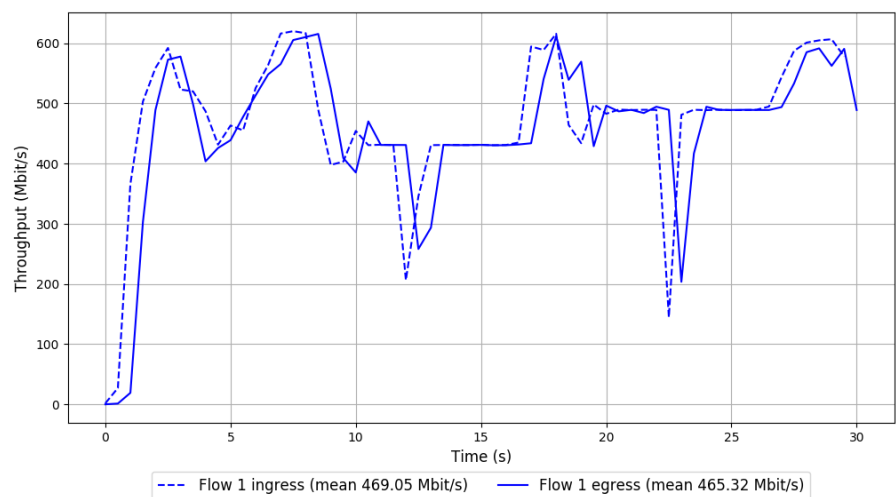
-- Flow 1:

Average throughput: 465.32 Mbit/s

95th percentile per-packet one-way delay: 168.302 ms

Loss rate: 1.21%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-11-24 11:44:14

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

Local clock offset: -0.211 ms

Remote clock offset: -0.17 ms

Below is generated by plot.py at 2019-11-24 13:10:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 447.13 Mbit/s

95th percentile per-packet one-way delay: 185.489 ms

Loss rate: 1.53%

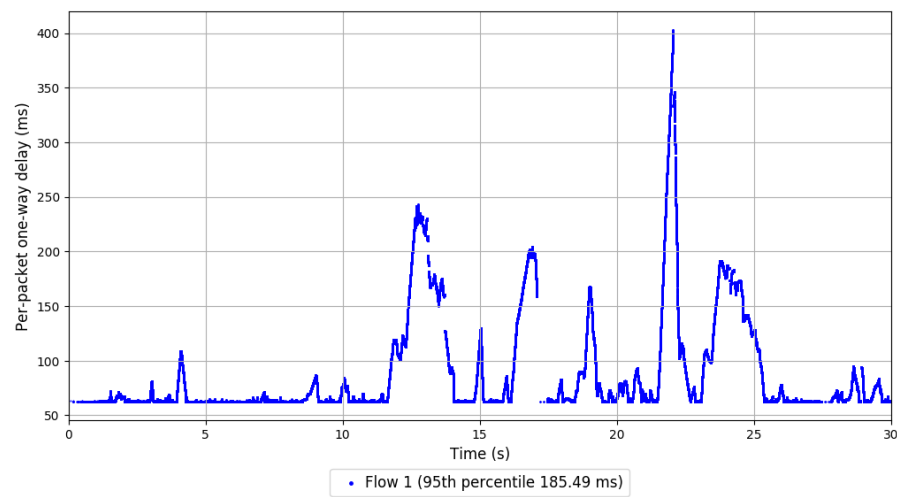
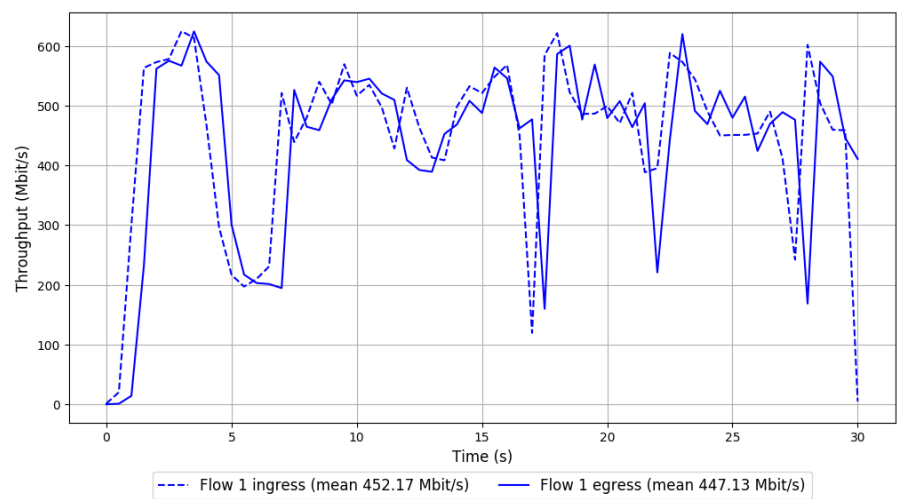
-- Flow 1:

Average throughput: 447.13 Mbit/s

95th percentile per-packet one-way delay: 185.489 ms

Loss rate: 1.53%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-11-24 12:18:04

End at: 2019-11-24 12:18:34

Local clock offset: -0.298 ms

Remote clock offset: -0.021 ms

Below is generated by plot.py at 2019-11-24 13:10:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 466.90 Mbit/s

95th percentile per-packet one-way delay: 177.232 ms

Loss rate: 0.80%

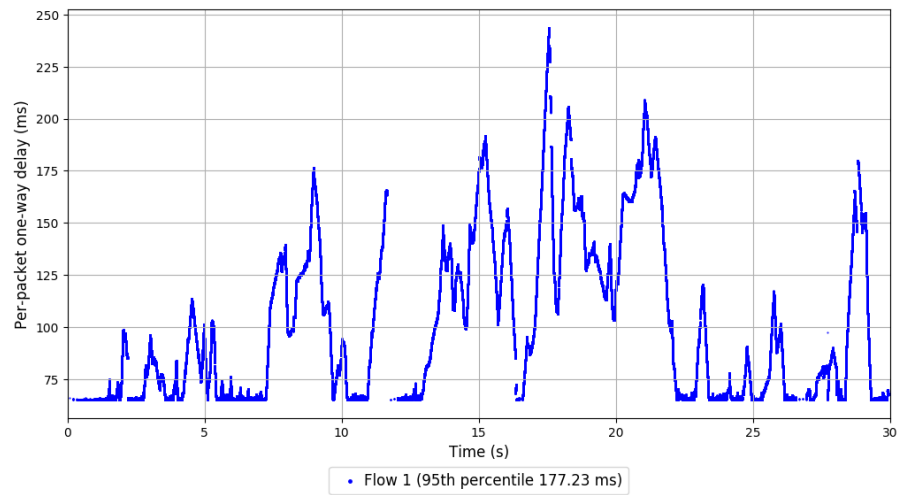
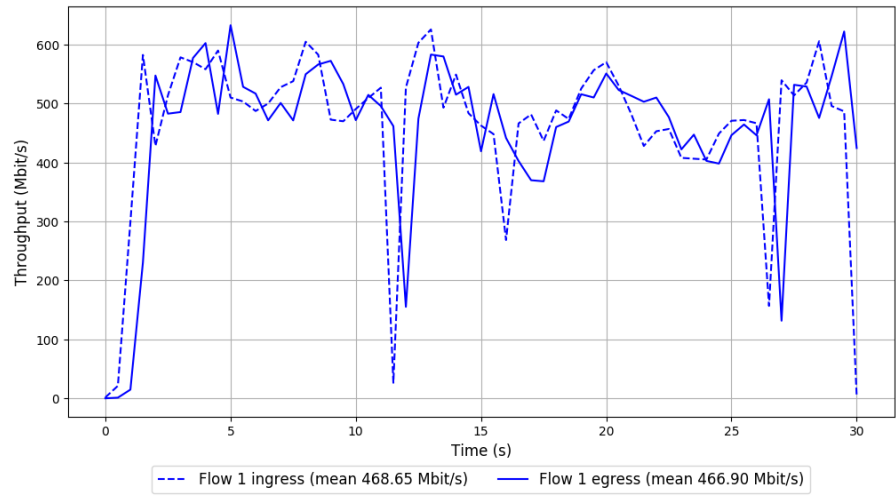
-- Flow 1:

Average throughput: 466.90 Mbit/s

95th percentile per-packet one-way delay: 177.232 ms

Loss rate: 0.80%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-11-24 10:02:17

End at: 2019-11-24 10:02:47

Local clock offset: -0.152 ms

Remote clock offset: 0.061 ms

Below is generated by plot.py at 2019-11-24 13:10:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 271.81 Mbit/s

95th percentile per-packet one-way delay: 80.775 ms

Loss rate: 0.36%

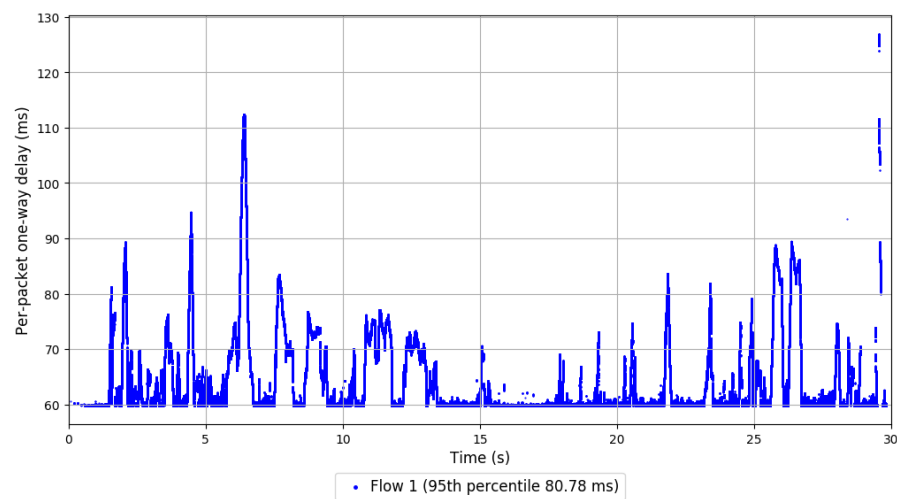
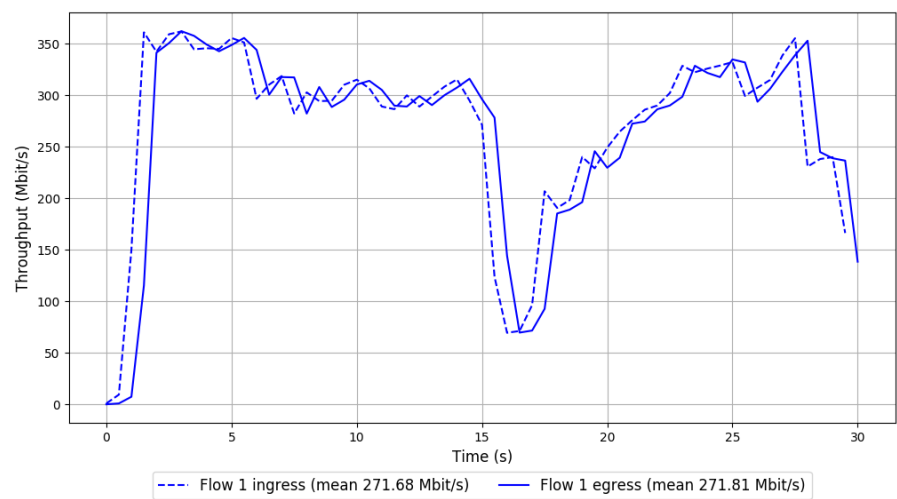
-- Flow 1:

Average throughput: 271.81 Mbit/s

95th percentile per-packet one-way delay: 80.775 ms

Loss rate: 0.36%

Run 1: Report of Copa — Data Link

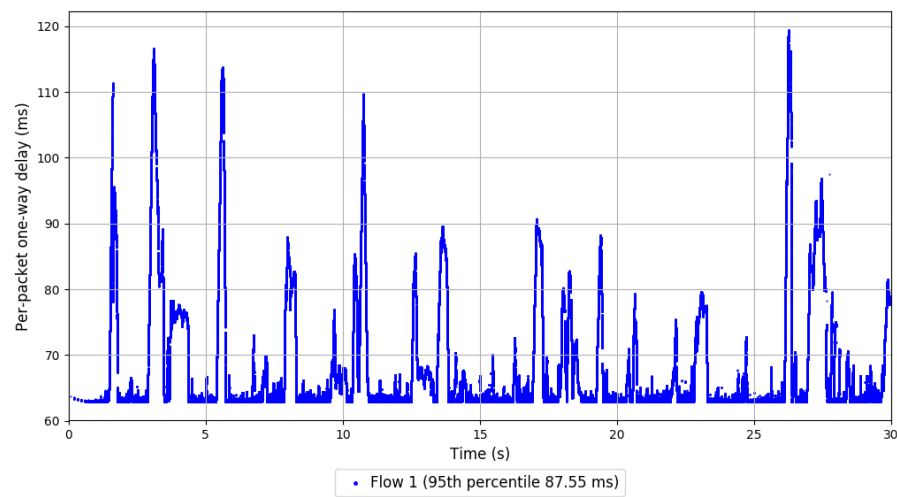
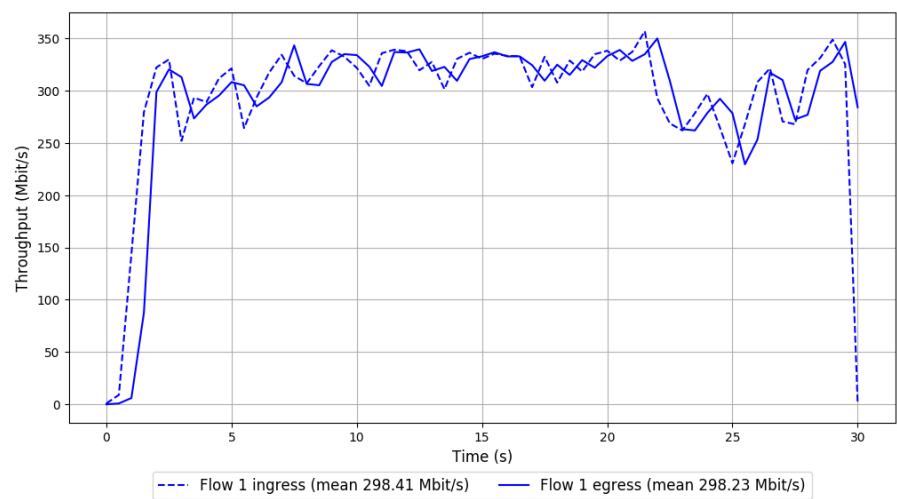


Run 2: Statistics of Copa

Start at: 2019-11-24 10:36:50
End at: 2019-11-24 10:37:20
Local clock offset: -0.002 ms
Remote clock offset: 0.057 ms

Below is generated by plot.py at 2019-11-24 13:11:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 298.23 Mbit/s
95th percentile per-packet one-way delay: 87.552 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 298.23 Mbit/s
95th percentile per-packet one-way delay: 87.552 ms
Loss rate: 0.48%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

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

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

Local clock offset: -0.016 ms

Remote clock offset: 0.158 ms

Below is generated by plot.py at 2019-11-24 13:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 313.74 Mbit/s

95th percentile per-packet one-way delay: 94.986 ms

Loss rate: 0.45%

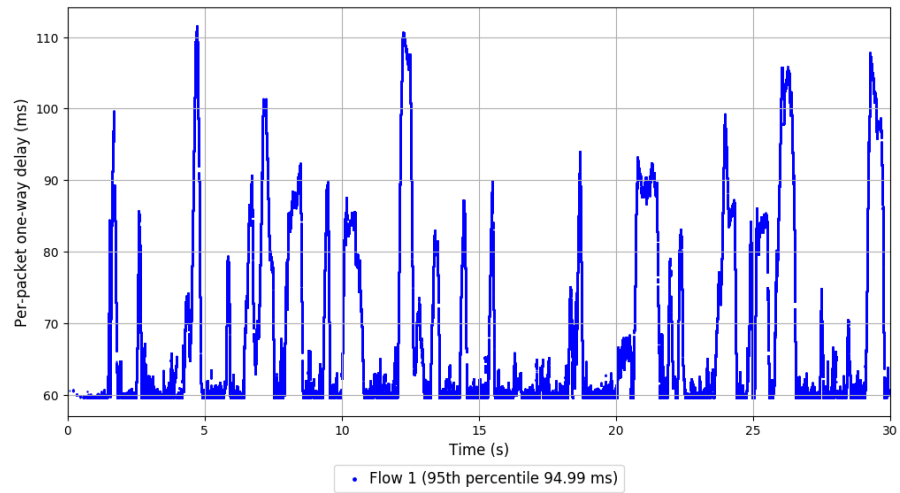
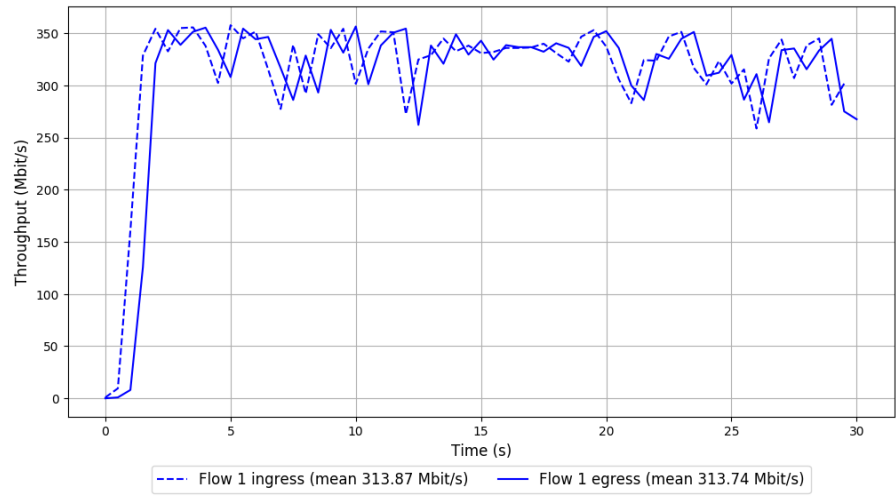
-- Flow 1:

Average throughput: 313.74 Mbit/s

95th percentile per-packet one-way delay: 94.986 ms

Loss rate: 0.45%

Run 3: Report of Copa — Data Link

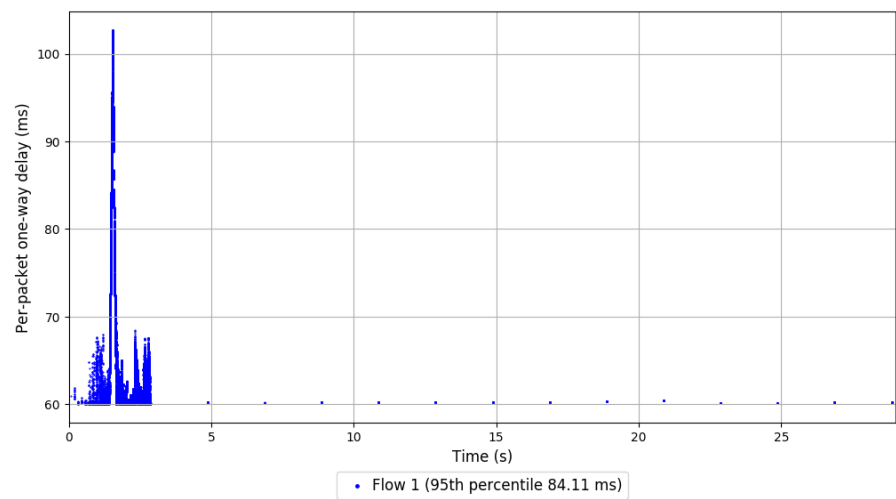
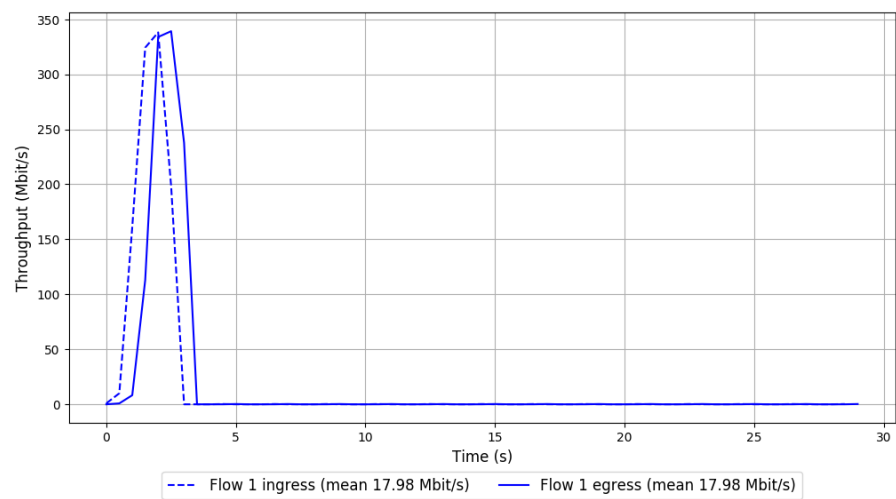


Run 4: Statistics of Copa

Start at: 2019-11-24 11:45:45
End at: 2019-11-24 11:46:15
Local clock offset: -0.163 ms
Remote clock offset: -0.125 ms

Below is generated by plot.py at 2019-11-24 13:11:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 17.98 Mbit/s
95th percentile per-packet one-way delay: 84.115 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 17.98 Mbit/s
95th percentile per-packet one-way delay: 84.115 ms
Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-11-24 12:19:37

End at: 2019-11-24 12:20:07

Local clock offset: -0.237 ms

Remote clock offset: 0.035 ms

Below is generated by plot.py at 2019-11-24 13:18:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 299.31 Mbit/s

95th percentile per-packet one-way delay: 87.146 ms

Loss rate: 0.44%

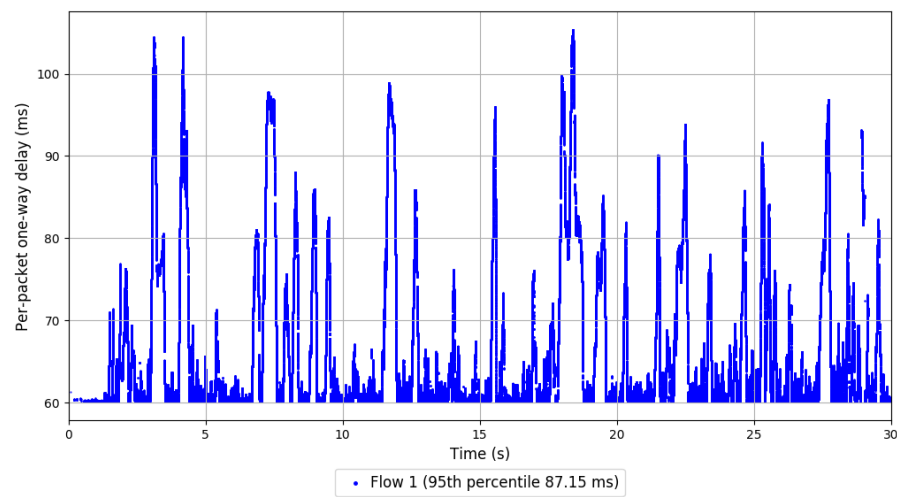
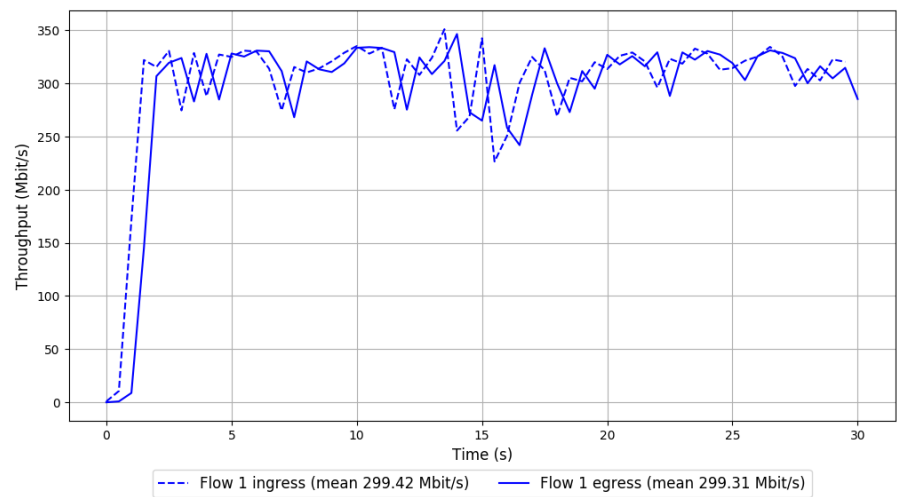
-- Flow 1:

Average throughput: 299.31 Mbit/s

95th percentile per-packet one-way delay: 87.146 ms

Loss rate: 0.44%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-11-24 09:59:24

End at: 2019-11-24 09:59:54

Local clock offset: -0.109 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2019-11-24 13:18:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.95 Mbit/s

95th percentile per-packet one-way delay: 62.426 ms

Loss rate: 0.80%

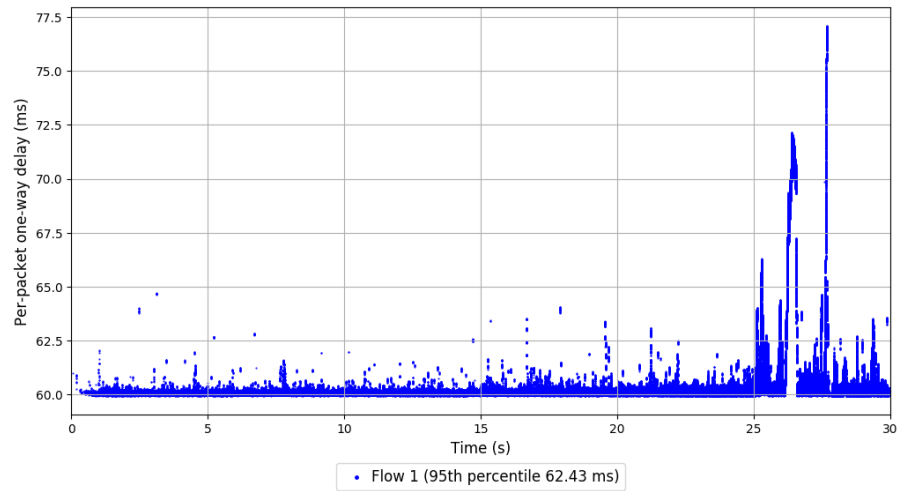
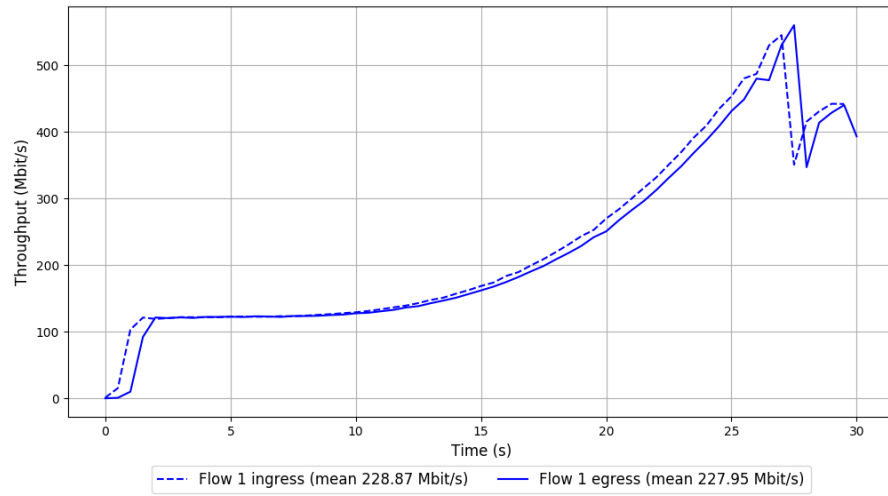
-- Flow 1:

Average throughput: 227.95 Mbit/s

95th percentile per-packet one-way delay: 62.426 ms

Loss rate: 0.80%

Run 1: Report of TCP Cubic — Data Link

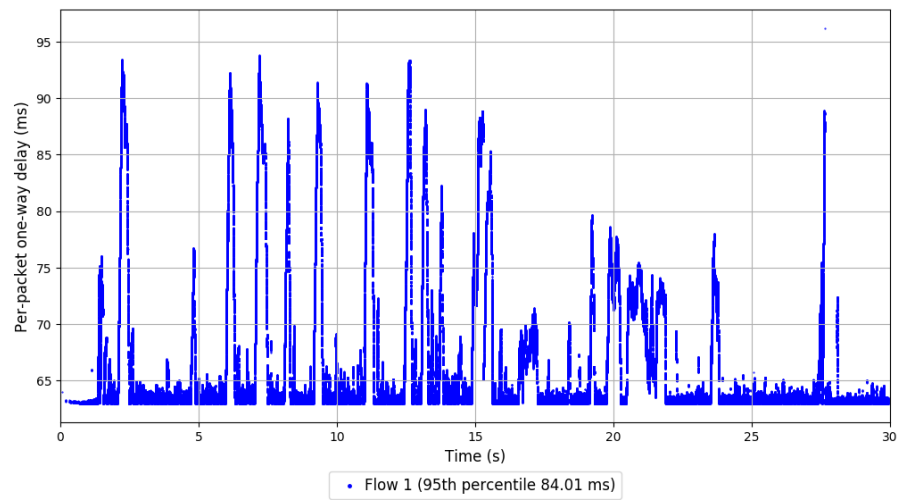
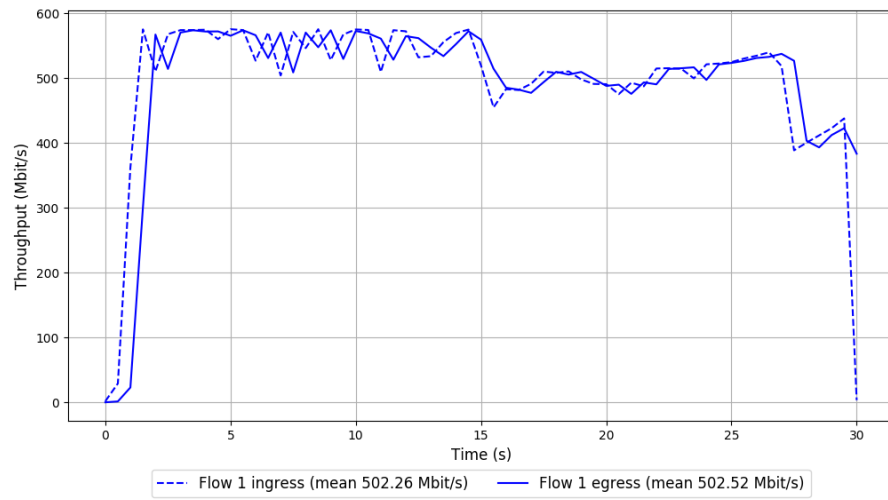


Run 2: Statistics of TCP Cubic

Start at: 2019-11-24 10:33:45
End at: 2019-11-24 10:34:15
Local clock offset: -0.007 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2019-11-24 13:18:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 502.52 Mbit/s
95th percentile per-packet one-way delay: 84.007 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 502.52 Mbit/s
95th percentile per-packet one-way delay: 84.007 ms
Loss rate: 0.36%

Run 2: Report of TCP Cubic — Data Link

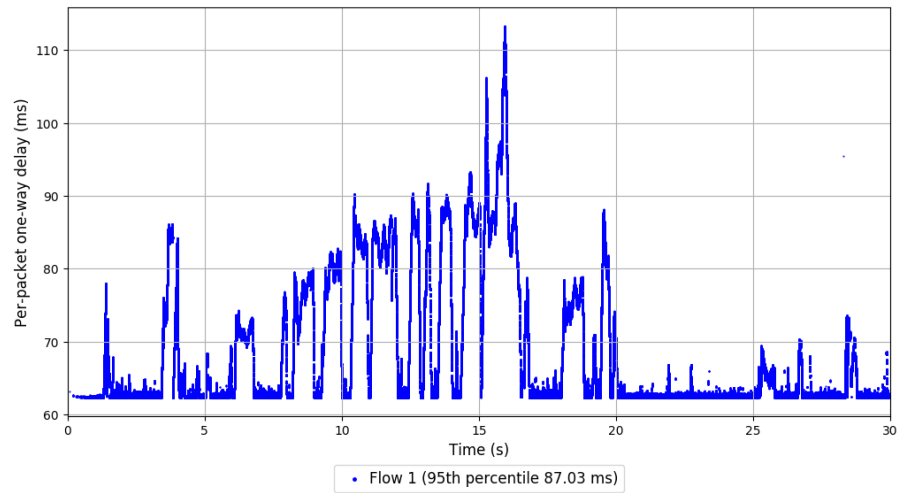
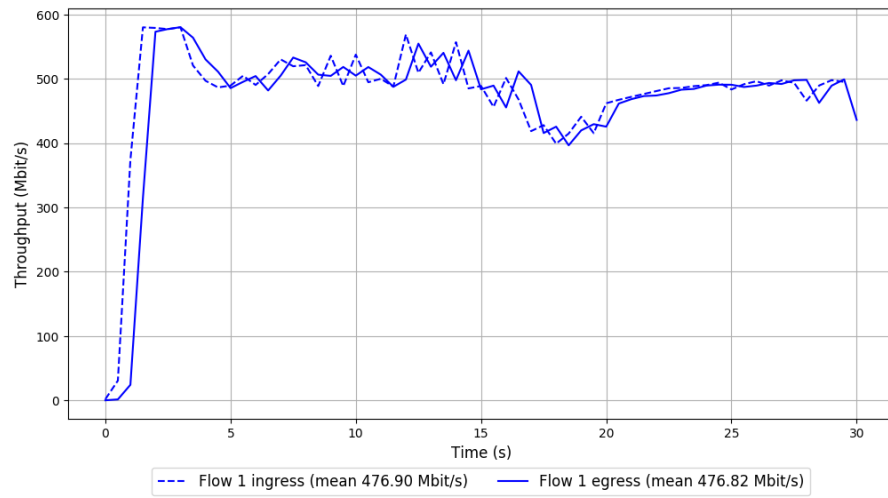


Run 3: Statistics of TCP Cubic

Start at: 2019-11-24 11:08:19
End at: 2019-11-24 11:08:49
Local clock offset: -0.03 ms
Remote clock offset: -0.081 ms

Below is generated by plot.py at 2019-11-24 13:18:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 476.82 Mbit/s
95th percentile per-packet one-way delay: 87.026 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 476.82 Mbit/s
95th percentile per-packet one-way delay: 87.026 ms
Loss rate: 0.43%

Run 3: Report of TCP Cubic — Data Link

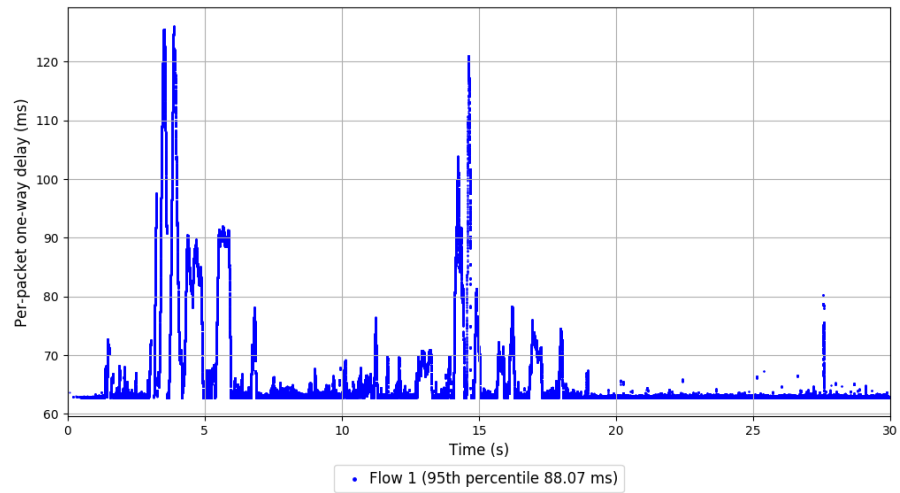
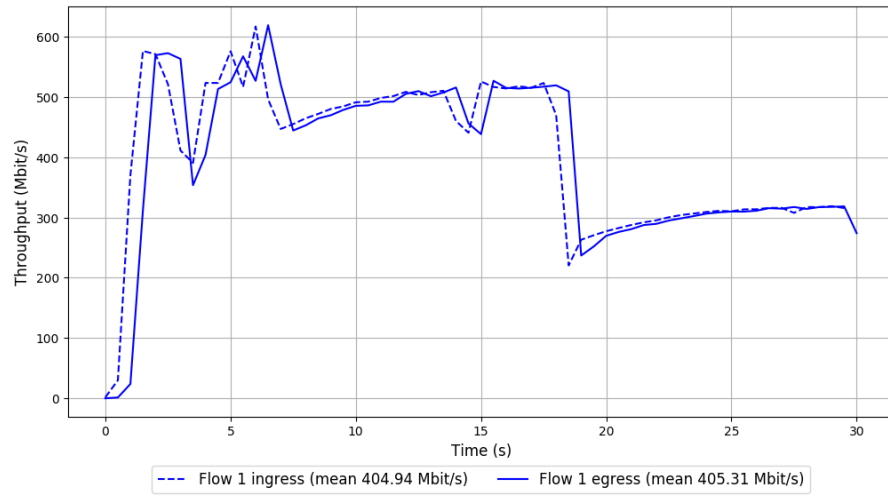


Run 4: Statistics of TCP Cubic

Start at: 2019-11-24 11:42:47
End at: 2019-11-24 11:43:17
Local clock offset: -0.164 ms
Remote clock offset: -0.114 ms

Below is generated by plot.py at 2019-11-24 13:18:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 405.31 Mbit/s
95th percentile per-packet one-way delay: 88.067 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 405.31 Mbit/s
95th percentile per-packet one-way delay: 88.067 ms
Loss rate: 0.32%

Run 4: Report of TCP Cubic — Data Link

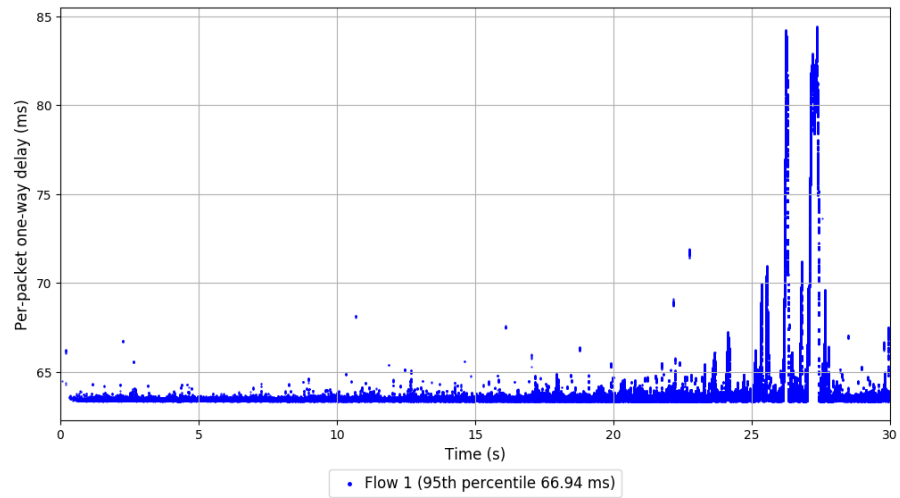
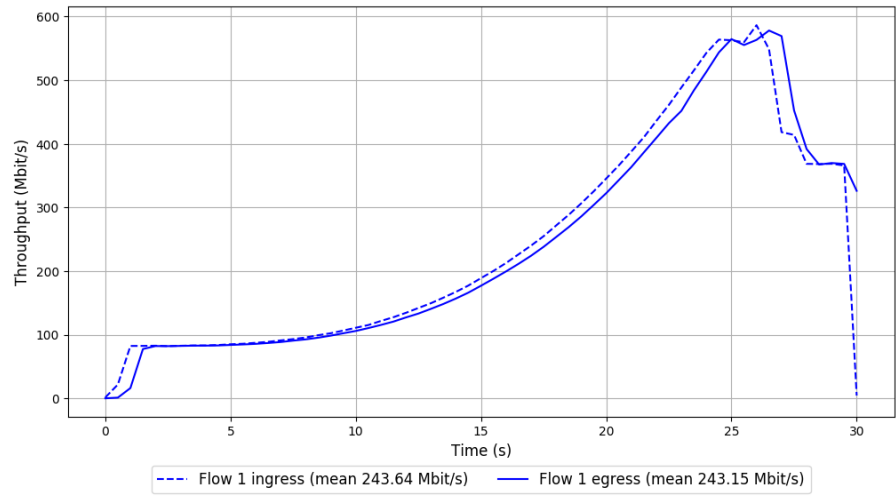


Run 5: Statistics of TCP Cubic

Start at: 2019-11-24 12:16:44
End at: 2019-11-24 12:17:14
Local clock offset: -0.222 ms
Remote clock offset: -0.191 ms

Below is generated by plot.py at 2019-11-24 13:18:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 243.15 Mbit/s
95th percentile per-packet one-way delay: 66.937 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 243.15 Mbit/s
95th percentile per-packet one-way delay: 66.937 ms
Loss rate: 0.62%

Run 5: Report of TCP Cubic — Data Link

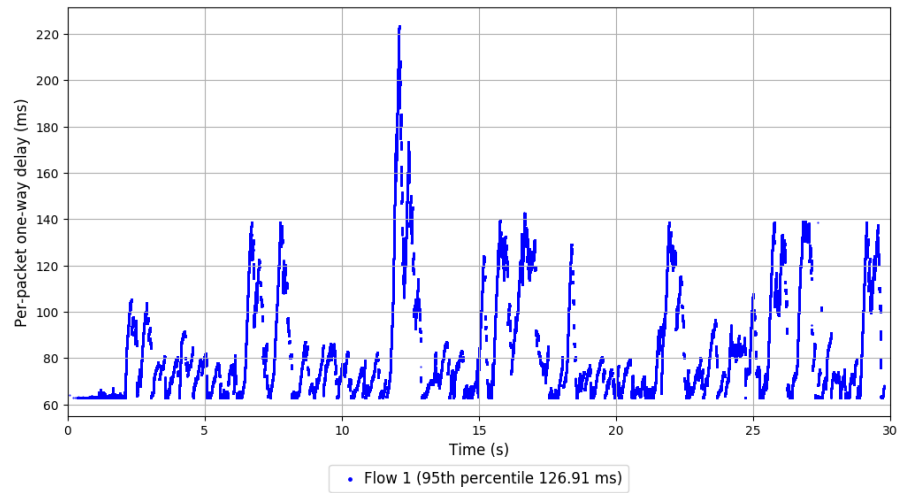
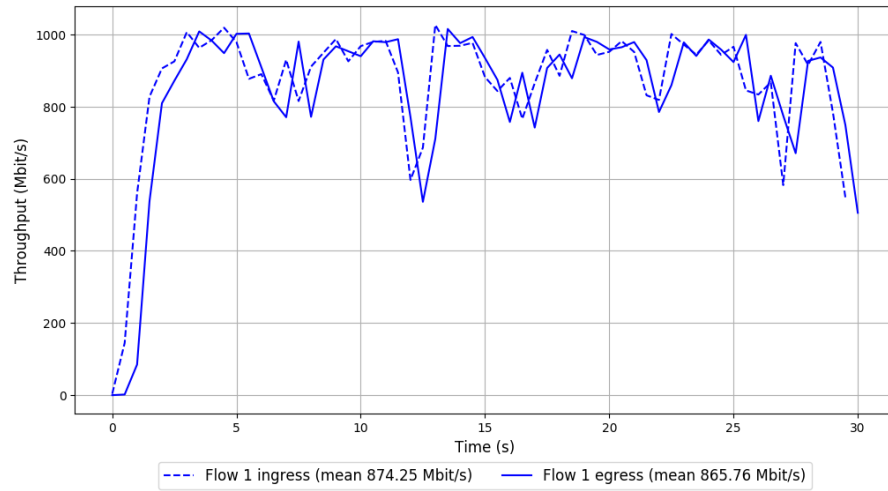


Run 1: Statistics of FillP

Start at: 2019-11-24 10:22:29
End at: 2019-11-24 10:22:59
Local clock offset: -0.023 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2019-11-24 13:28:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 865.76 Mbit/s
95th percentile per-packet one-way delay: 126.912 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 865.76 Mbit/s
95th percentile per-packet one-way delay: 126.912 ms
Loss rate: 1.38%

Run 1: Report of FillP — Data Link

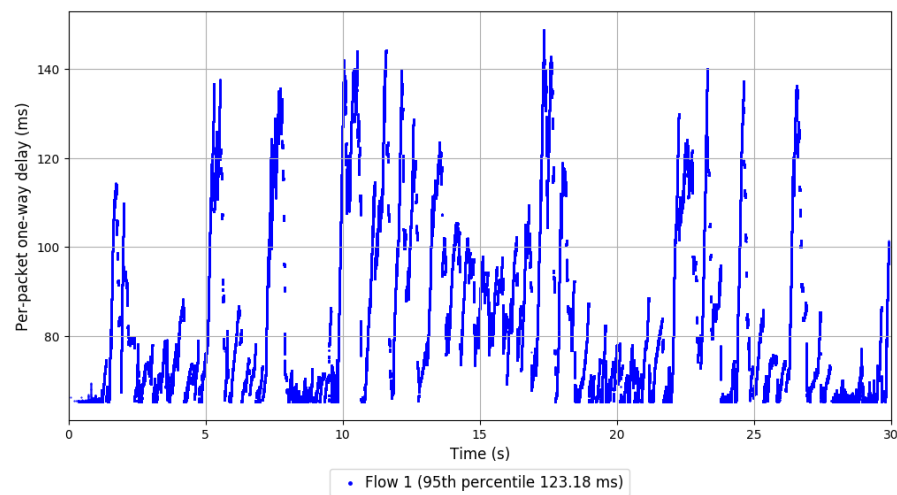
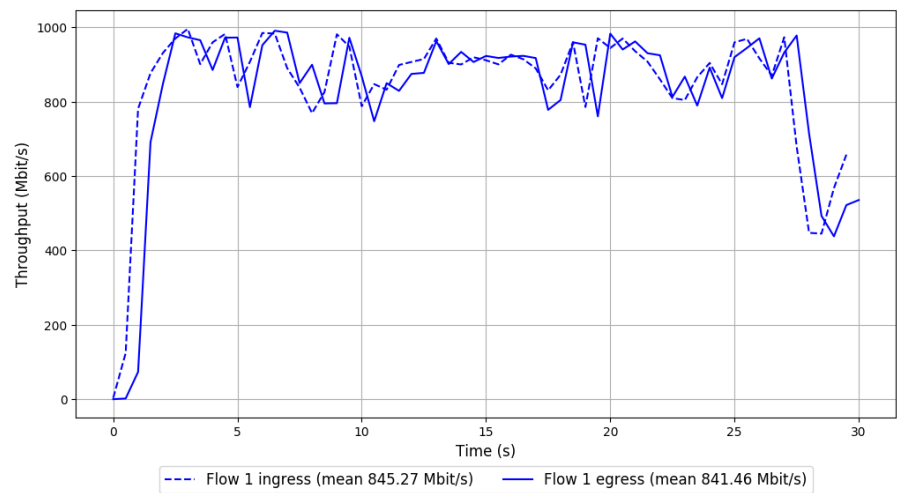


Run 2: Statistics of FillP

Start at: 2019-11-24 10:57:03
End at: 2019-11-24 10:57:33
Local clock offset: -0.016 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2019-11-24 13:28:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 841.46 Mbit/s
95th percentile per-packet one-way delay: 123.179 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 841.46 Mbit/s
95th percentile per-packet one-way delay: 123.179 ms
Loss rate: 0.88%

Run 2: Report of FillP — Data Link

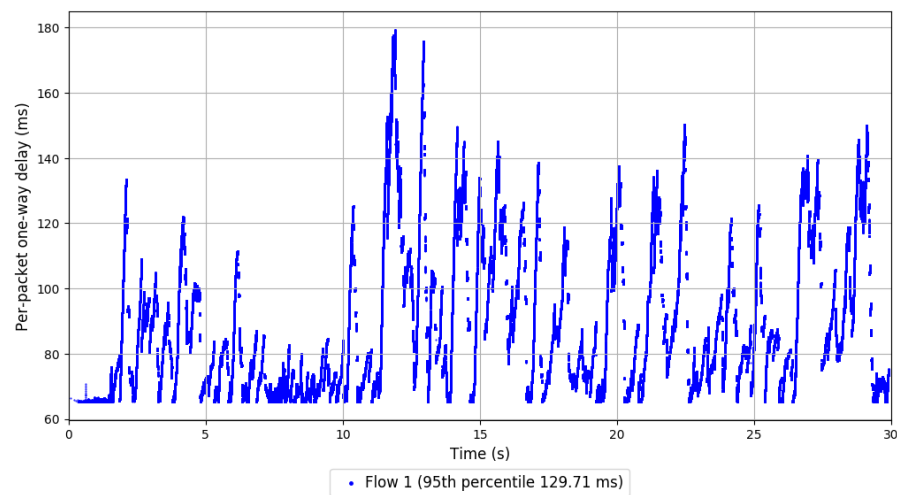
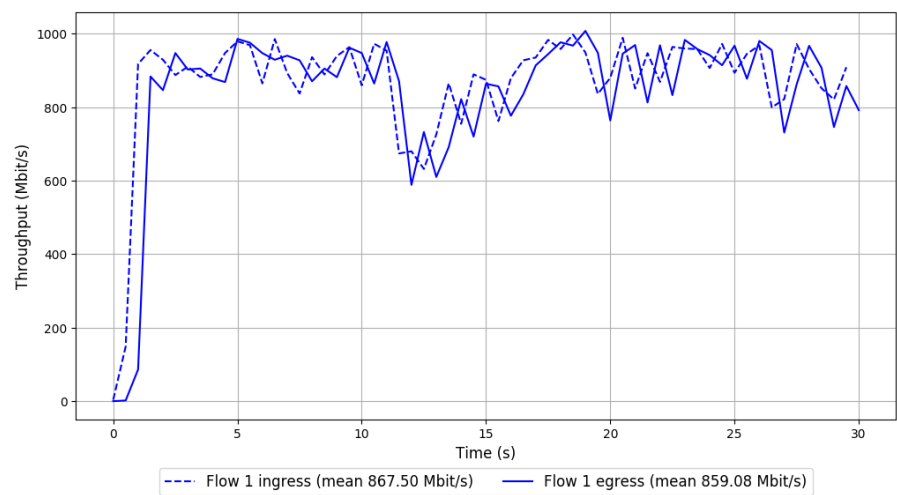


Run 3: Statistics of FillP

Start at: 2019-11-24 11:31:29
End at: 2019-11-24 11:31:59
Local clock offset: -0.136 ms
Remote clock offset: -0.066 ms

Below is generated by plot.py at 2019-11-24 13:32:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 859.08 Mbit/s
95th percentile per-packet one-way delay: 129.705 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 859.08 Mbit/s
95th percentile per-packet one-way delay: 129.705 ms
Loss rate: 1.40%

Run 3: Report of FillP — Data Link

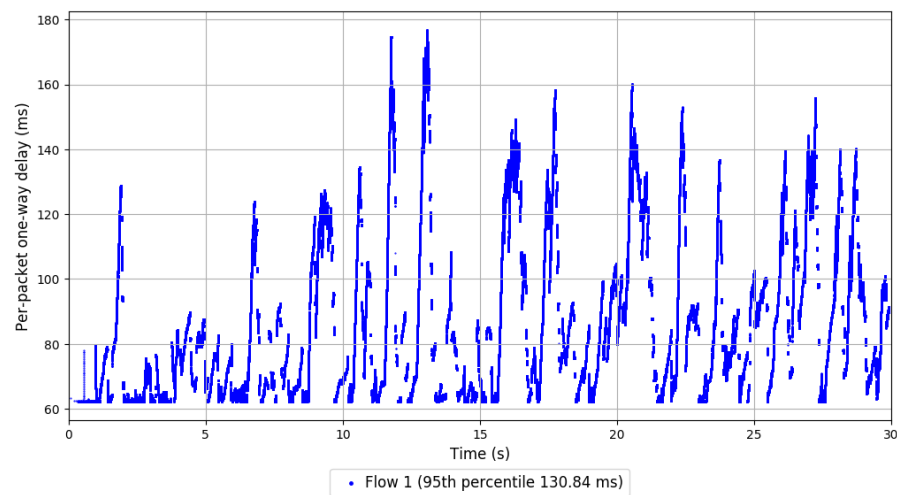
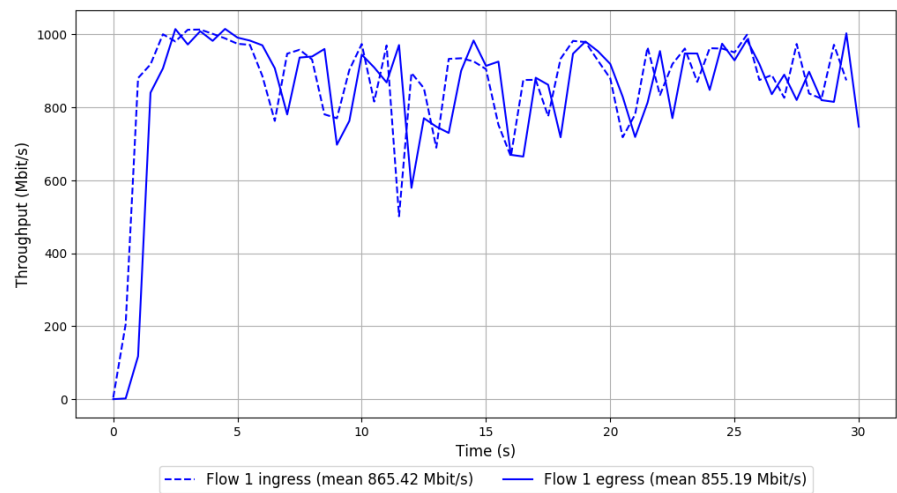


Run 4: Statistics of FillP

Start at: 2019-11-24 12:05:28
End at: 2019-11-24 12:05:58
Local clock offset: -0.233 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2019-11-24 13:33:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 855.19 Mbit/s
95th percentile per-packet one-way delay: 130.839 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 855.19 Mbit/s
95th percentile per-packet one-way delay: 130.839 ms
Loss rate: 1.60%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-11-24 12:39:40

End at: 2019-11-24 12:40:10

Local clock offset: -0.304 ms

Remote clock offset: 0.144 ms

Below is generated by plot.py at 2019-11-24 13:34:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 842.91 Mbit/s

95th percentile per-packet one-way delay: 124.260 ms

Loss rate: 0.90%

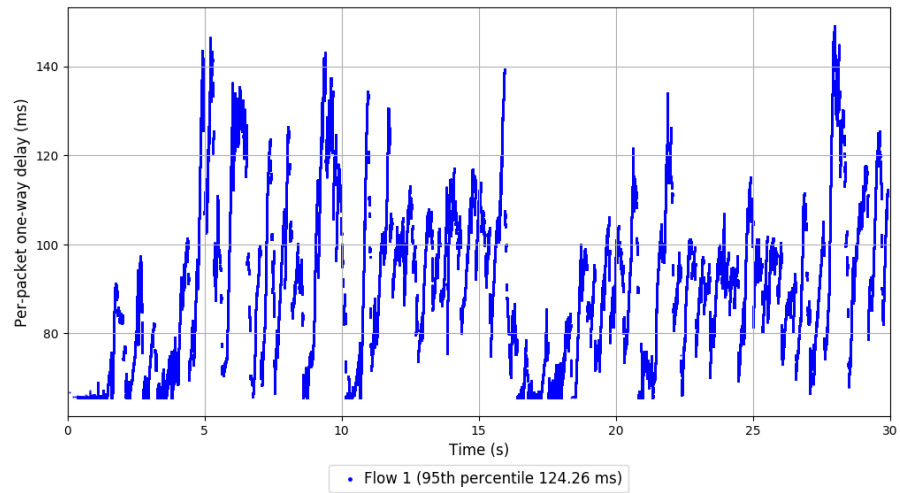
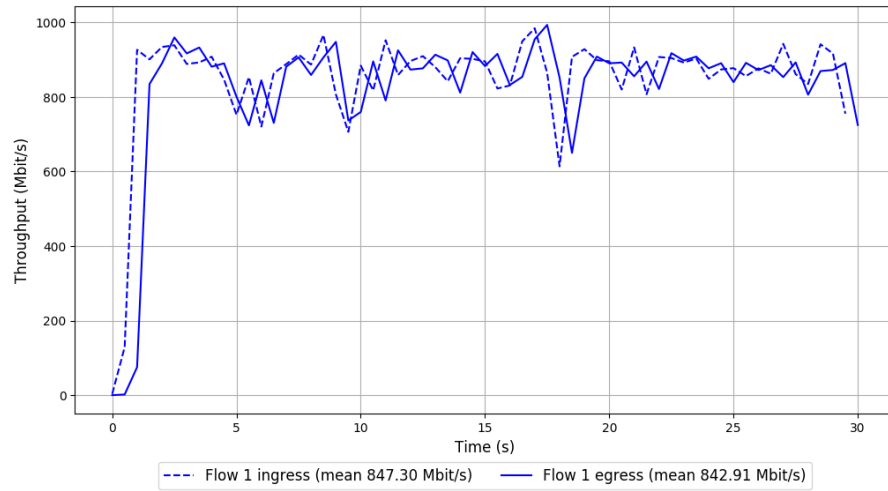
-- Flow 1:

Average throughput: 842.91 Mbit/s

95th percentile per-packet one-way delay: 124.260 ms

Loss rate: 0.90%

Run 5: Report of FillP — Data Link

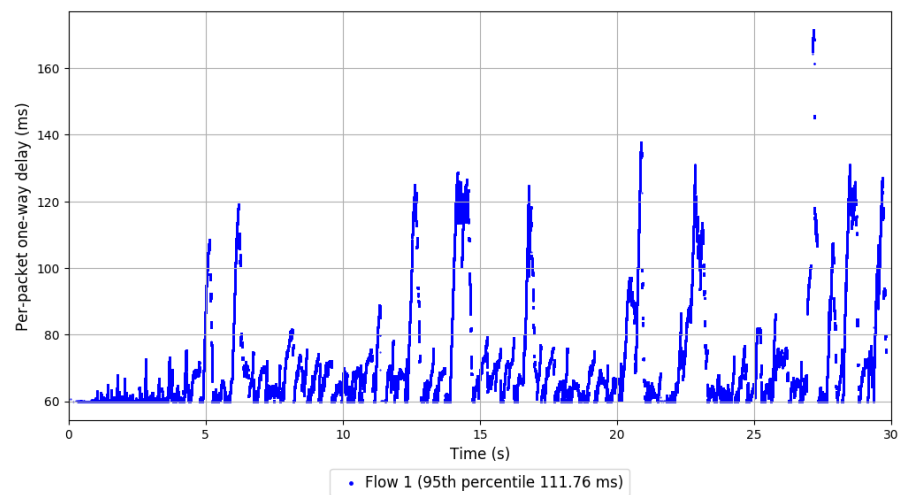
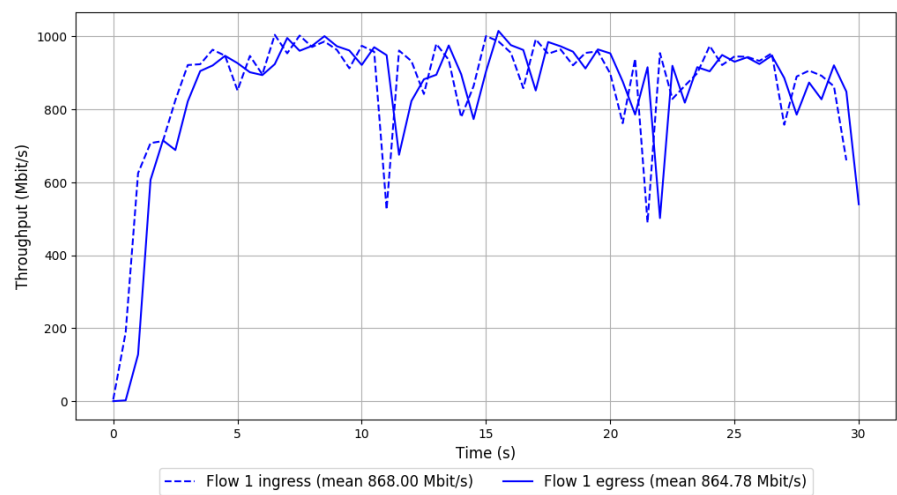


Run 1: Statistics of FillP-Sheep

Start at: 2019-11-24 10:15:09
End at: 2019-11-24 10:15:39
Local clock offset: -0.055 ms
Remote clock offset: -0.019 ms

Below is generated by plot.py at 2019-11-24 13:35:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 864.78 Mbit/s
95th percentile per-packet one-way delay: 111.760 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 864.78 Mbit/s
95th percentile per-packet one-way delay: 111.760 ms
Loss rate: 0.77%

Run 1: Report of FillP-Sheep — Data Link

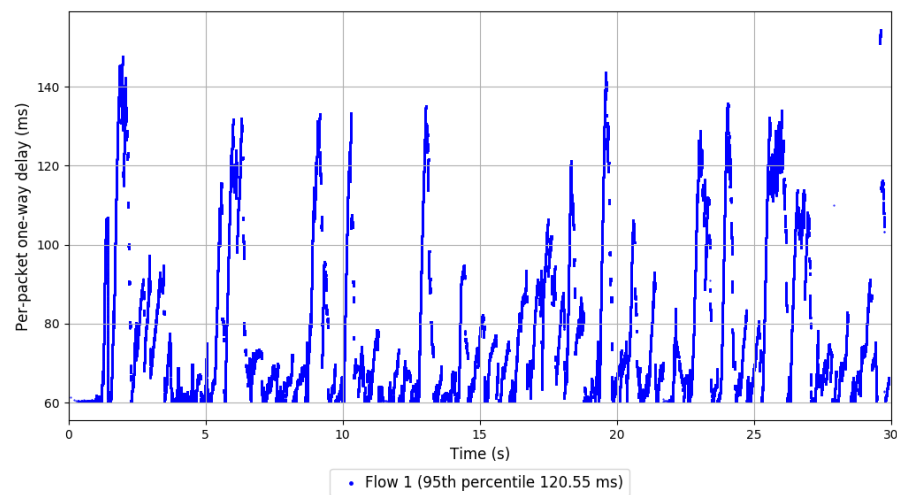
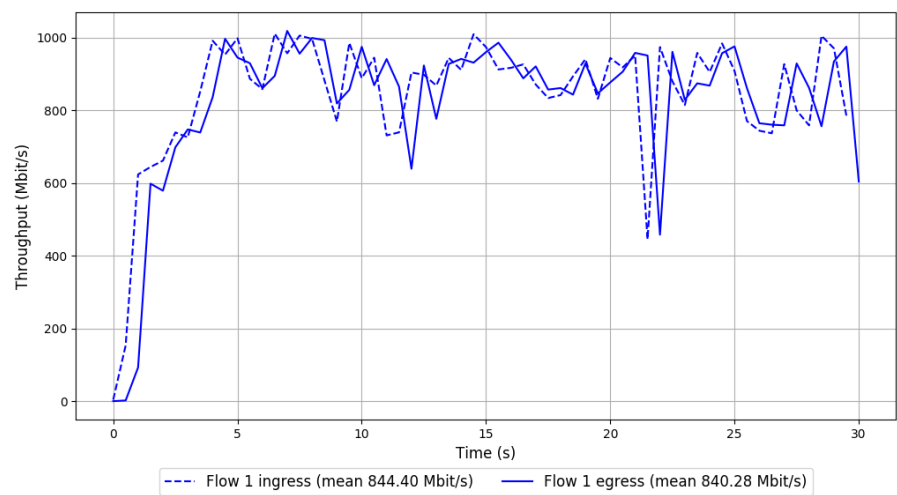


Run 2: Statistics of FillP-Sheep

Start at: 2019-11-24 10:49:43
End at: 2019-11-24 10:50:13
Local clock offset: 0.001 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2019-11-24 13:35:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 840.28 Mbit/s
95th percentile per-packet one-way delay: 120.554 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 840.28 Mbit/s
95th percentile per-packet one-way delay: 120.554 ms
Loss rate: 0.90%

Run 2: Report of FillP-Sheep — Data Link

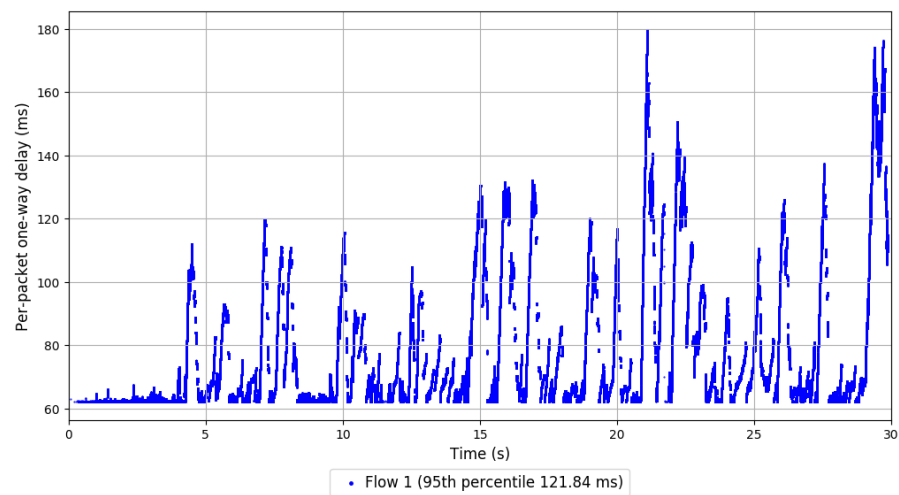
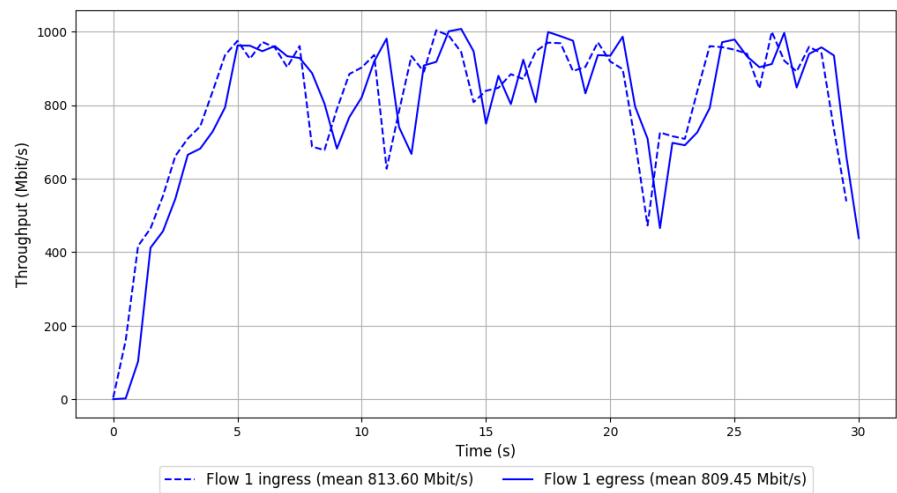


Run 3: Statistics of FillP-Sheep

Start at: 2019-11-24 11:24:16
End at: 2019-11-24 11:24:46
Local clock offset: -0.101 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2019-11-24 13:35:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 809.45 Mbit/s
95th percentile per-packet one-way delay: 121.840 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 809.45 Mbit/s
95th percentile per-packet one-way delay: 121.840 ms
Loss rate: 0.93%

Run 3: Report of FillP-Sheep — Data Link

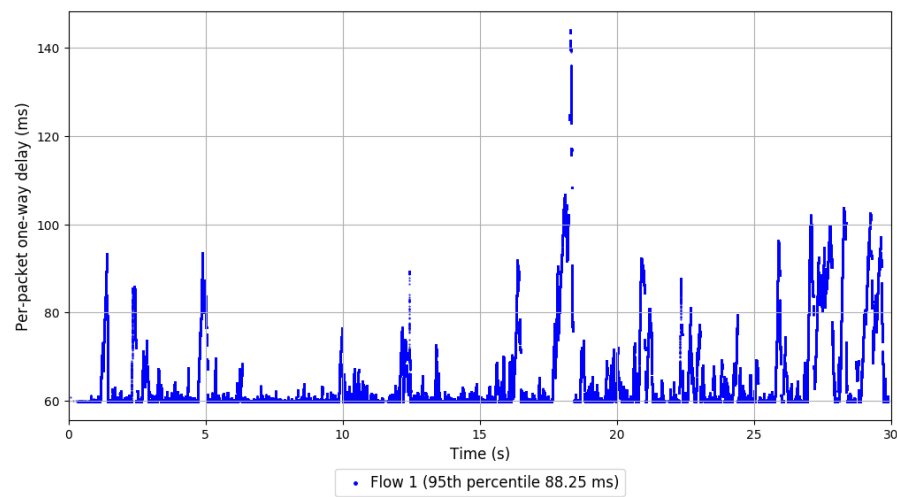
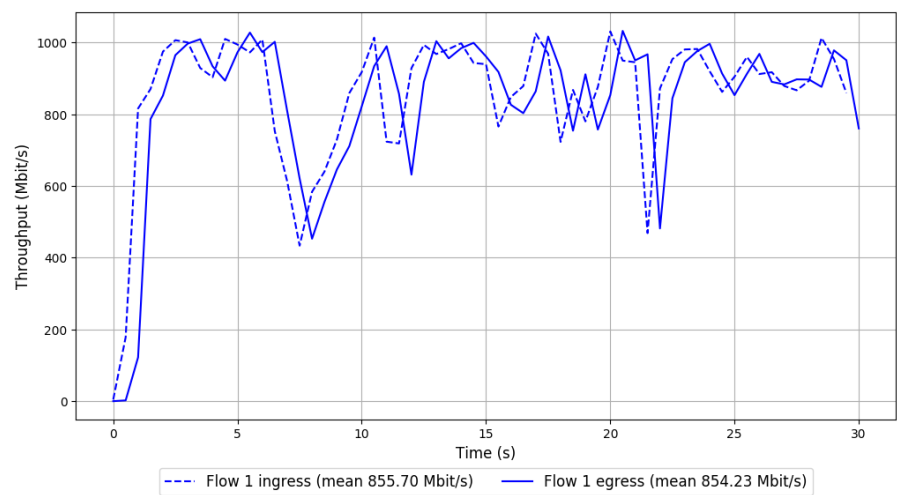


Run 4: Statistics of FillP-Sheep

Start at: 2019-11-24 11:58:10
End at: 2019-11-24 11:58:40
Local clock offset: -0.211 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2019-11-24 13:47:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 854.23 Mbit/s
95th percentile per-packet one-way delay: 88.245 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 854.23 Mbit/s
95th percentile per-packet one-way delay: 88.245 ms
Loss rate: 0.59%

Run 4: Report of FillP-Sheep — Data Link

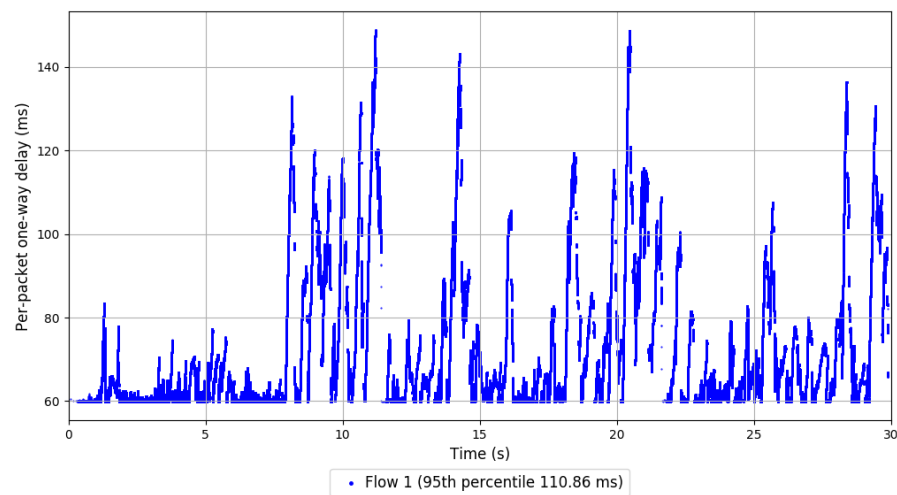
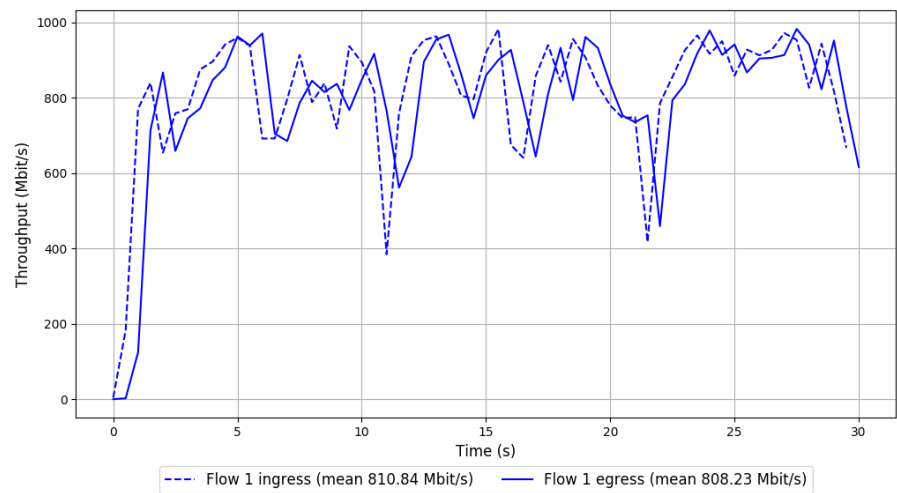


Run 5: Statistics of FillP-Sheep

Start at: 2019-11-24 12:32:28
End at: 2019-11-24 12:32:58
Local clock offset: -0.275 ms
Remote clock offset: -0.103 ms

Below is generated by plot.py at 2019-11-24 13:47:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 808.23 Mbit/s
95th percentile per-packet one-way delay: 110.856 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 808.23 Mbit/s
95th percentile per-packet one-way delay: 110.856 ms
Loss rate: 0.73%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-11-24 10:30:46

End at: 2019-11-24 10:31:16

Local clock offset: -0.011 ms

Remote clock offset: 0.053 ms

Below is generated by plot.py at 2019-11-24 13:47:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.75 Mbit/s

95th percentile per-packet one-way delay: 64.350 ms

Loss rate: 0.41%

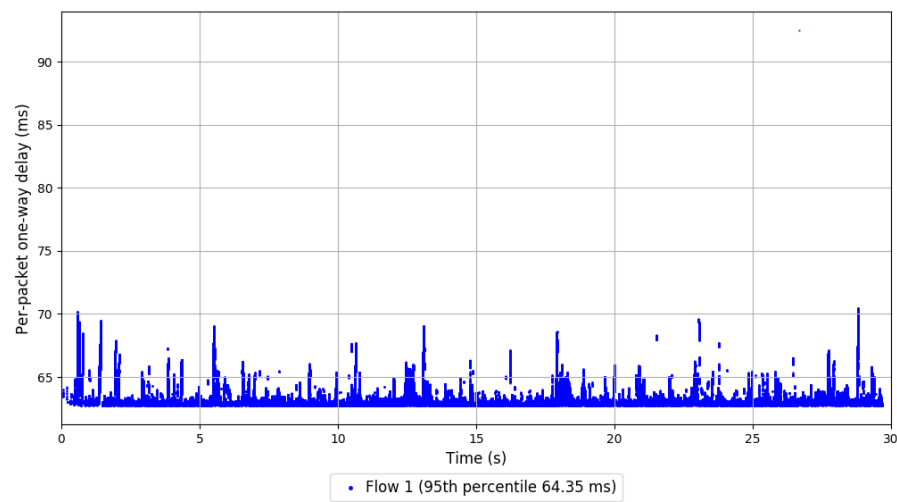
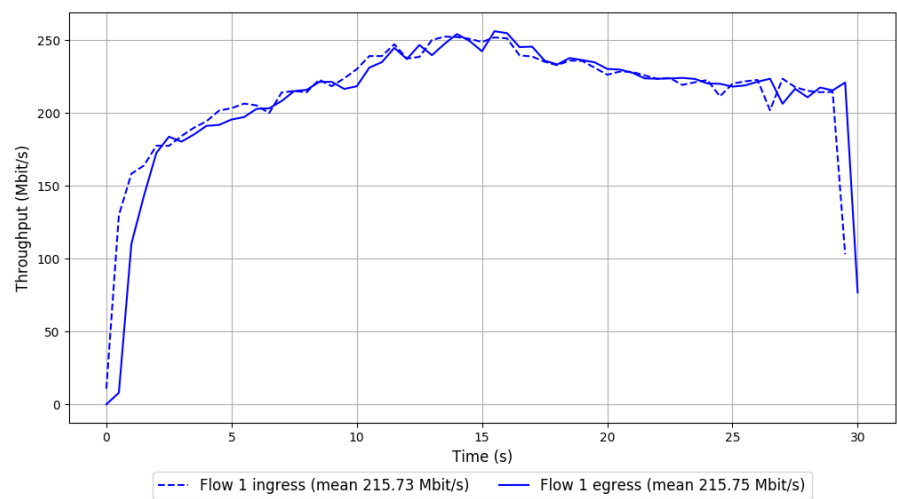
-- Flow 1:

Average throughput: 215.75 Mbit/s

95th percentile per-packet one-way delay: 64.350 ms

Loss rate: 0.41%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-11-24 11:05:18

End at: 2019-11-24 11:05:48

Local clock offset: -0.047 ms

Remote clock offset: 0.165 ms

Below is generated by plot.py at 2019-11-24 13:47:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.49 Mbit/s

95th percentile per-packet one-way delay: 63.932 ms

Loss rate: 0.41%

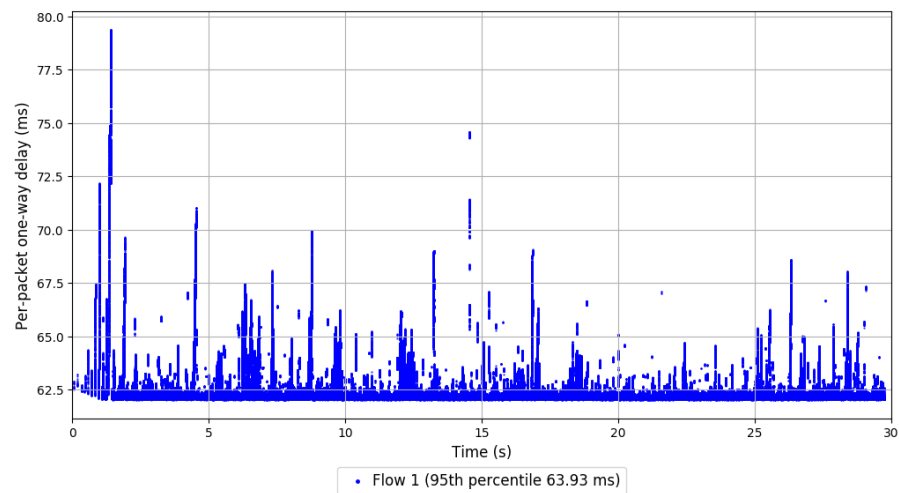
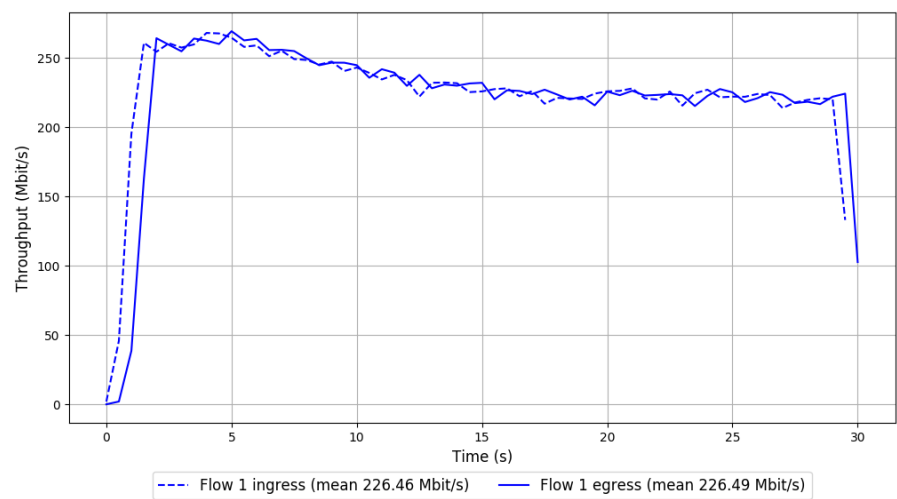
-- Flow 1:

Average throughput: 226.49 Mbit/s

95th percentile per-packet one-way delay: 63.932 ms

Loss rate: 0.41%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-11-24 11:39:47

End at: 2019-11-24 11:40:17

Local clock offset: -0.167 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2019-11-24 13:47:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.61 Mbit/s

95th percentile per-packet one-way delay: 64.661 ms

Loss rate: 0.44%

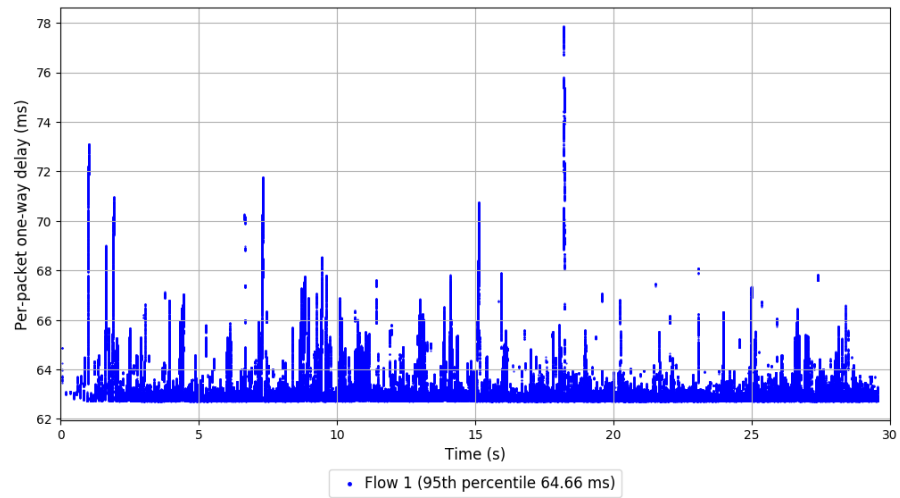
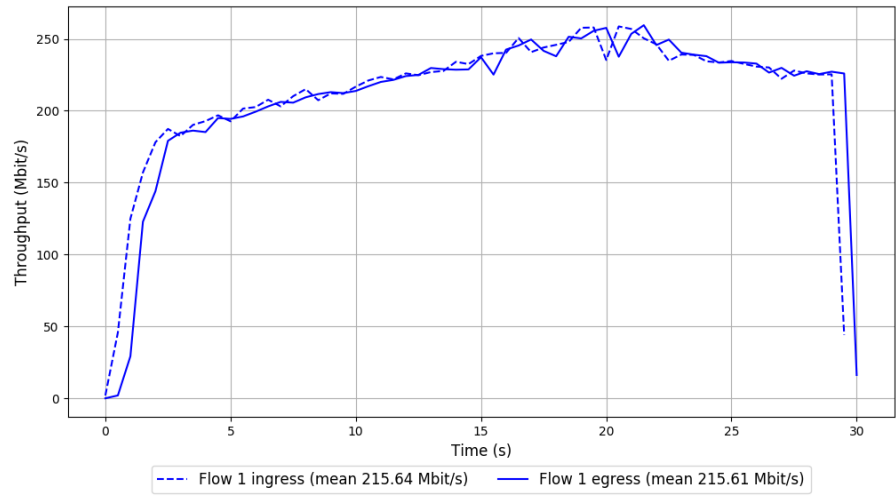
-- Flow 1:

Average throughput: 215.61 Mbit/s

95th percentile per-packet one-way delay: 64.661 ms

Loss rate: 0.44%

Run 3: Report of Indigo — Data Link

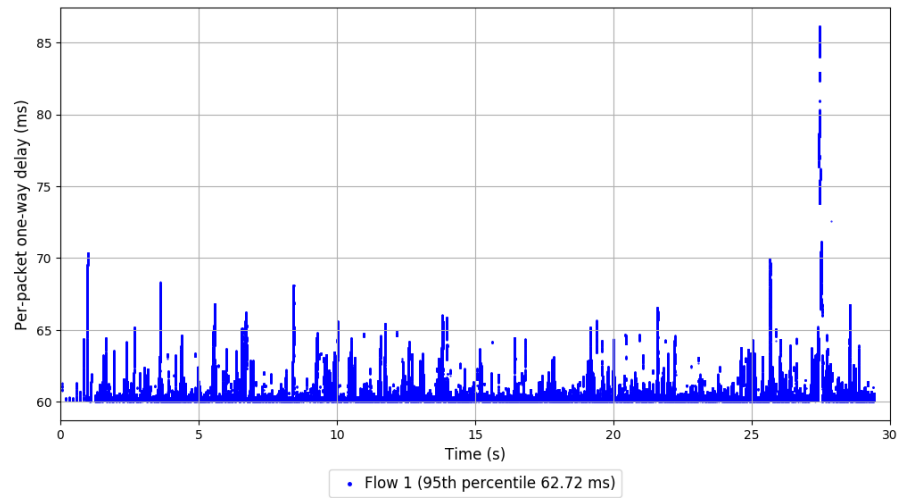
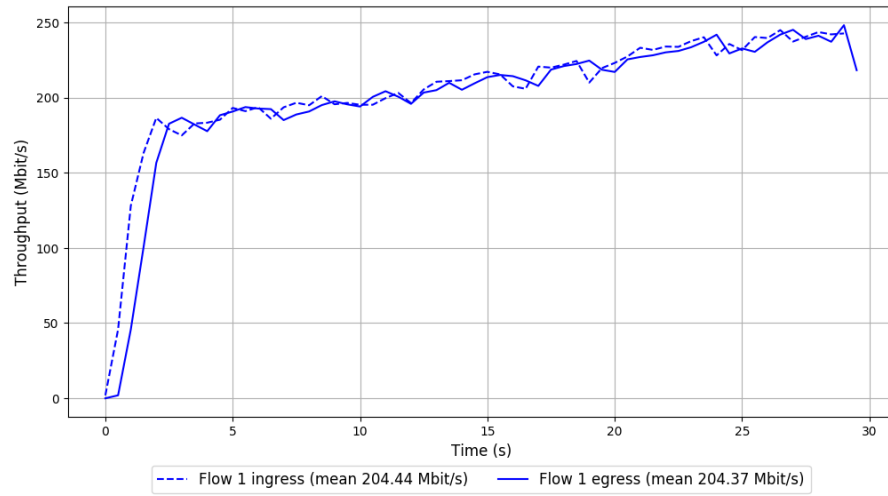


Run 4: Statistics of Indigo

Start at: 2019-11-24 12:13:47
End at: 2019-11-24 12:14:17
Local clock offset: -0.223 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2019-11-24 13:47:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 204.37 Mbit/s
95th percentile per-packet one-way delay: 62.716 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 204.37 Mbit/s
95th percentile per-packet one-way delay: 62.716 ms
Loss rate: 0.45%

Run 4: Report of Indigo — Data Link

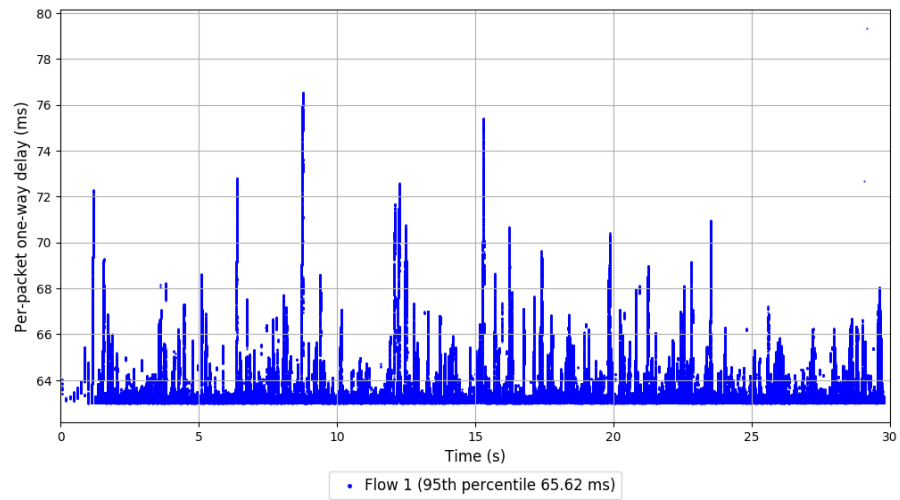
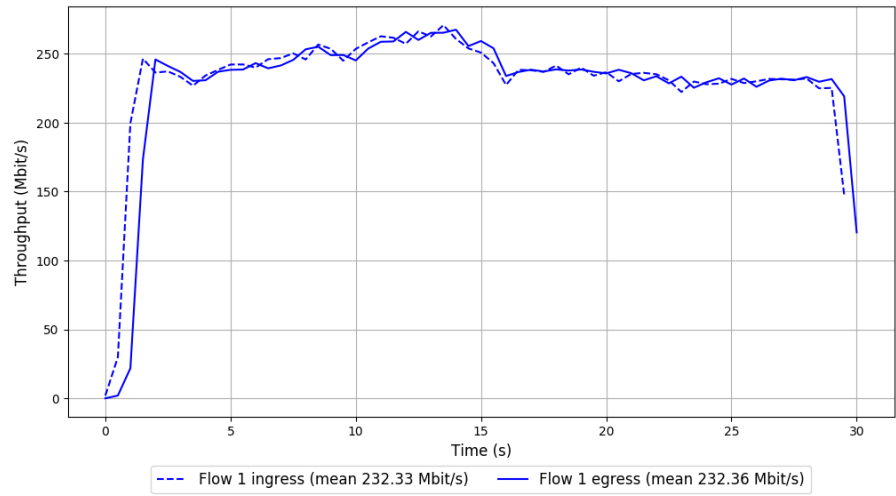


Run 5: Statistics of Indigo

Start at: 2019-11-24 12:47:54
End at: 2019-11-24 12:48:24
Local clock offset: -0.335 ms
Remote clock offset: -0.051 ms

Below is generated by plot.py at 2019-11-24 13:47:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 232.36 Mbit/s
95th percentile per-packet one-way delay: 65.616 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 232.36 Mbit/s
95th percentile per-packet one-way delay: 65.616 ms
Loss rate: 0.41%

Run 5: Report of Indigo — Data Link

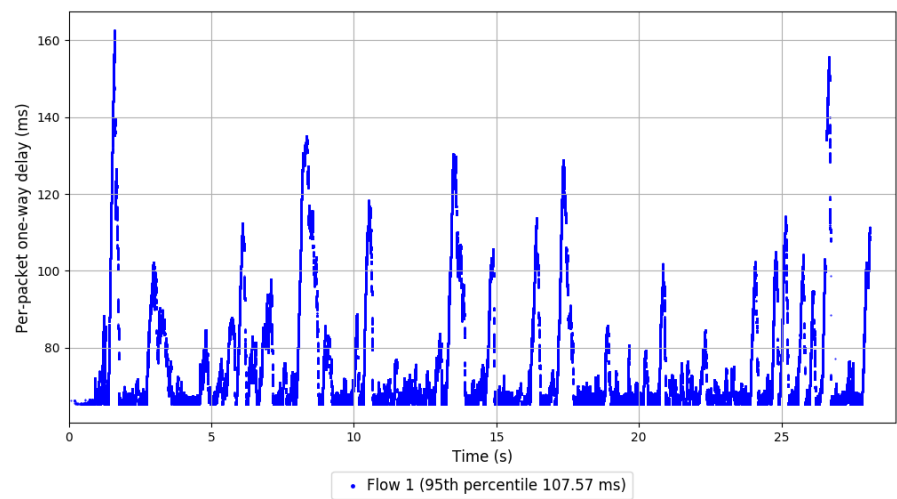
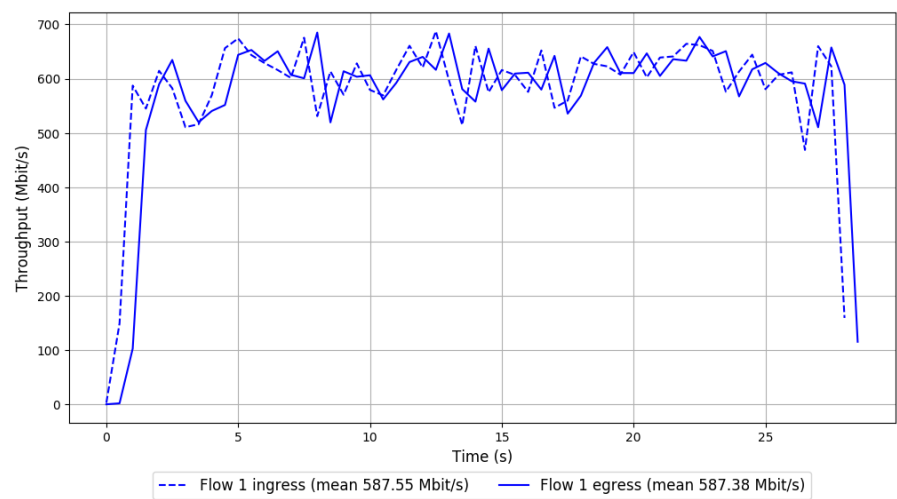


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-11-24 10:19:26
End at: 2019-11-24 10:19:56
Local clock offset: -0.027 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2019-11-24 13:47:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 587.38 Mbit/s
95th percentile per-packet one-way delay: 107.571 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 587.38 Mbit/s
95th percentile per-packet one-way delay: 107.571 ms
Loss rate: 0.48%

Run 1: Report of Indigo-MusesC3 — Data Link

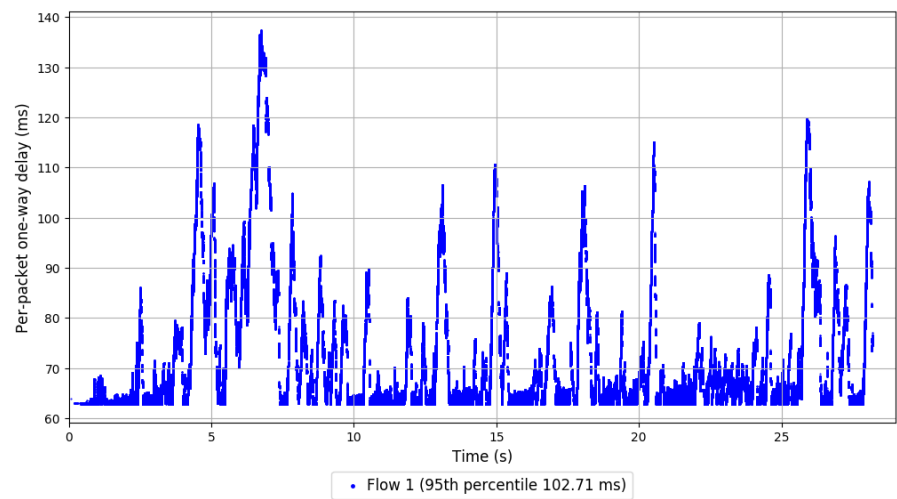
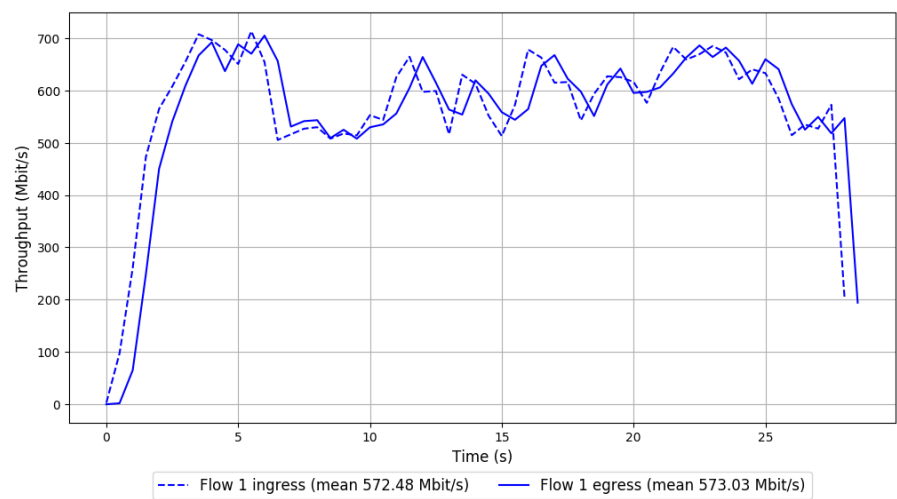


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-11-24 10:54:01
End at: 2019-11-24 10:54:31
Local clock offset: -0.023 ms
Remote clock offset: -0.181 ms

Below is generated by plot.py at 2019-11-24 13:47:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 573.03 Mbit/s
95th percentile per-packet one-way delay: 102.706 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 573.03 Mbit/s
95th percentile per-packet one-way delay: 102.706 ms
Loss rate: 0.35%

Run 2: Report of Indigo-MusesC3 — Data Link

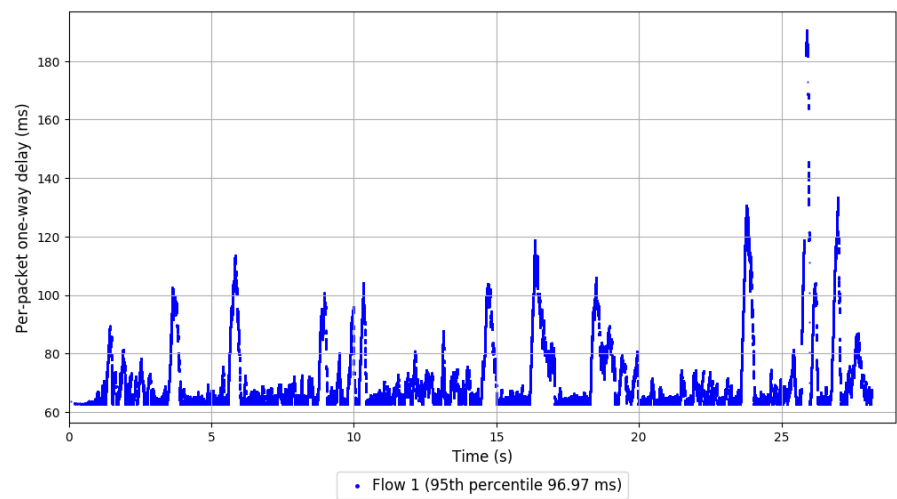
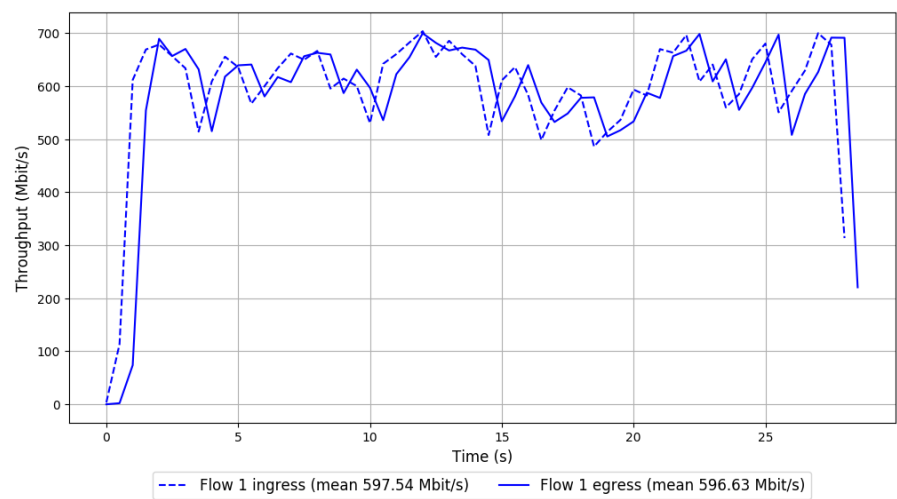


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-11-24 11:28:34
End at: 2019-11-24 11:29:04
Local clock offset: -0.116 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2019-11-24 13:49:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 596.63 Mbit/s
95th percentile per-packet one-way delay: 96.968 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 596.63 Mbit/s
95th percentile per-packet one-way delay: 96.968 ms
Loss rate: 0.60%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-11-24 12:02:27

End at: 2019-11-24 12:02:57

Local clock offset: -0.233 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2019-11-24 13:50:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 557.54 Mbit/s

95th percentile per-packet one-way delay: 101.515 ms

Loss rate: 0.34%

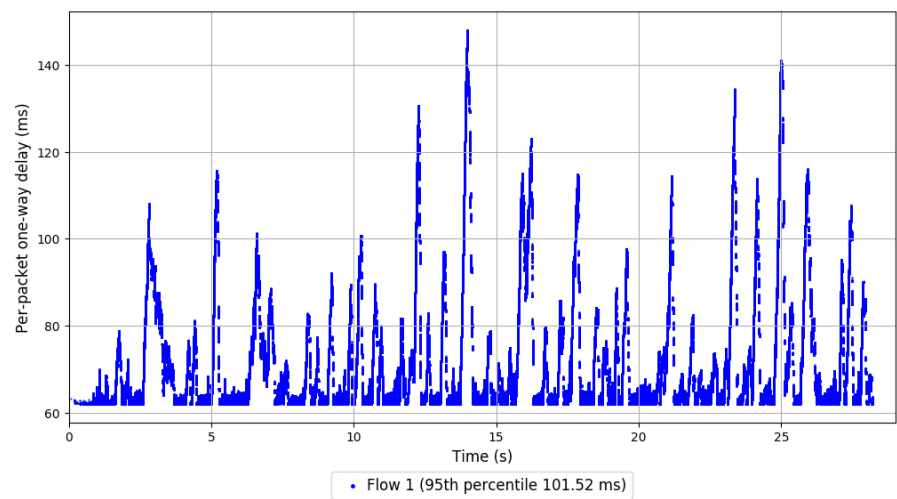
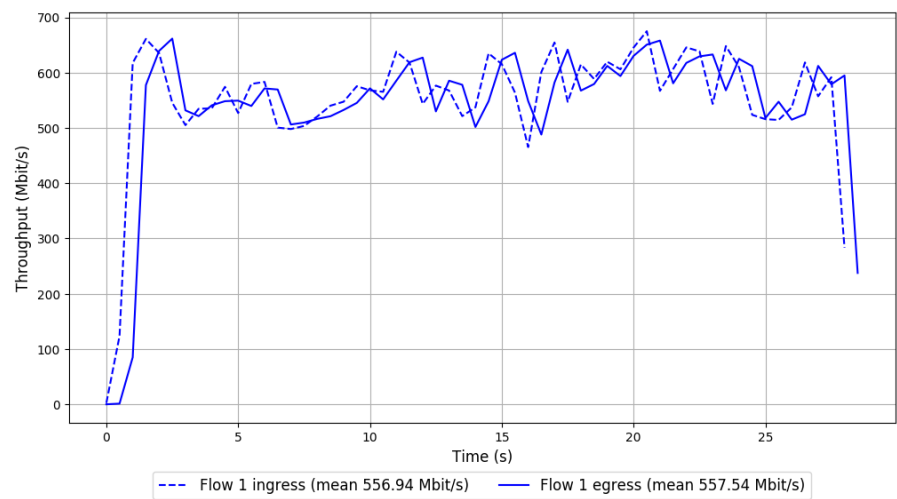
-- Flow 1:

Average throughput: 557.54 Mbit/s

95th percentile per-packet one-way delay: 101.515 ms

Loss rate: 0.34%

Run 4: Report of Indigo-MusesC3 — Data Link

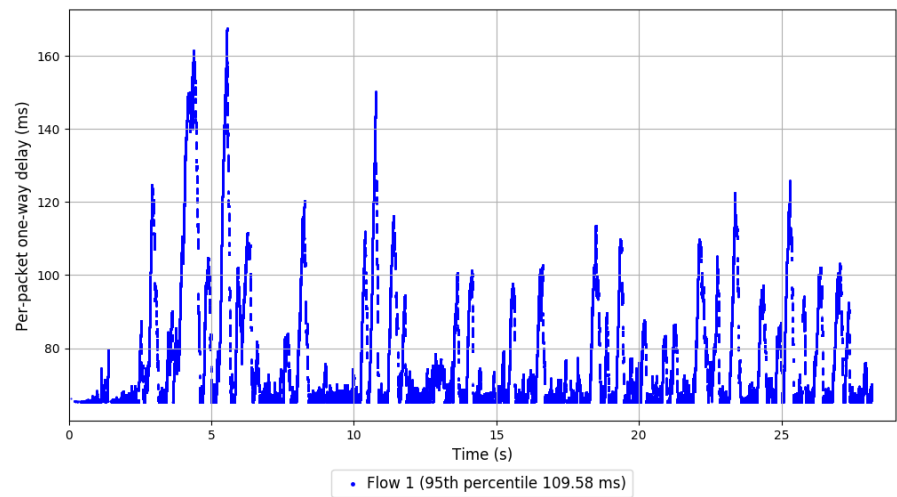
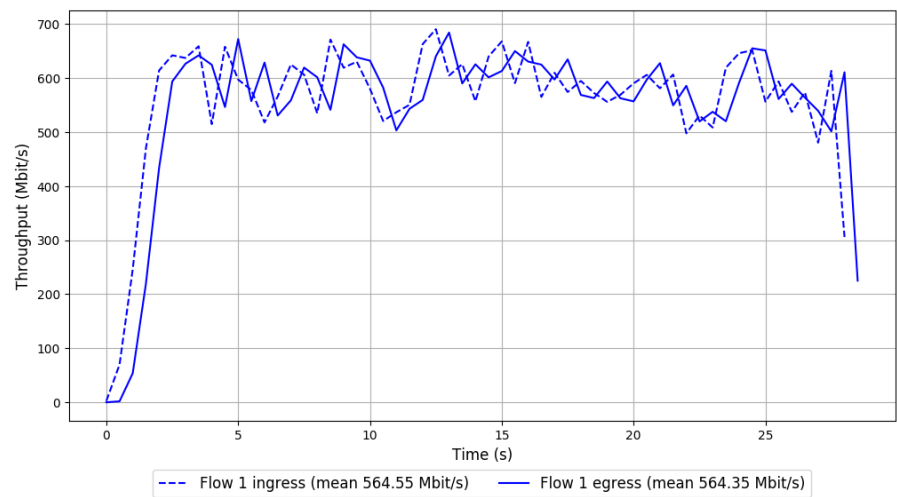


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-11-24 12:36:47
End at: 2019-11-24 12:37:17
Local clock offset: -0.287 ms
Remote clock offset: -0.088 ms

Below is generated by plot.py at 2019-11-24 13:51:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 564.35 Mbit/s
95th percentile per-packet one-way delay: 109.577 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 564.35 Mbit/s
95th percentile per-packet one-way delay: 109.577 ms
Loss rate: 0.49%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-11-24 10:25:44

End at: 2019-11-24 10:26:14

Local clock offset: -0.006 ms

Remote clock offset: 0.094 ms

Below is generated by plot.py at 2019-11-24 13:54:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 634.71 Mbit/s

95th percentile per-packet one-way delay: 160.184 ms

Loss rate: 0.64%

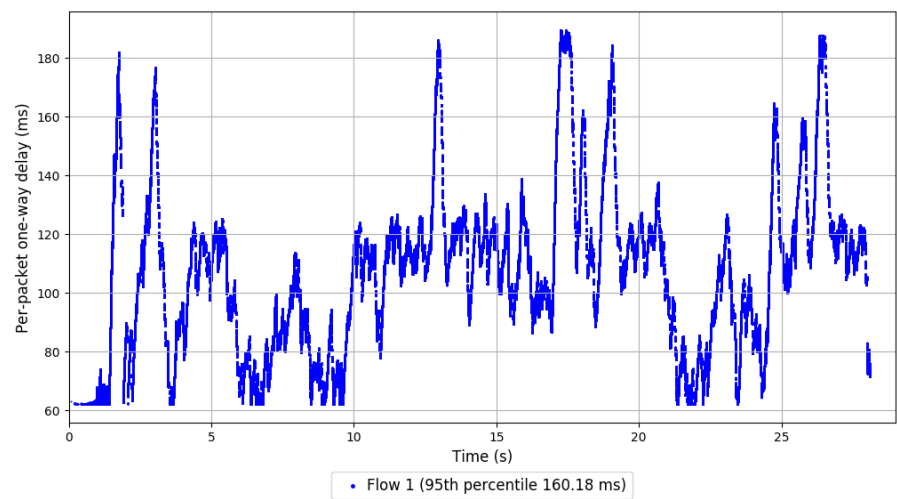
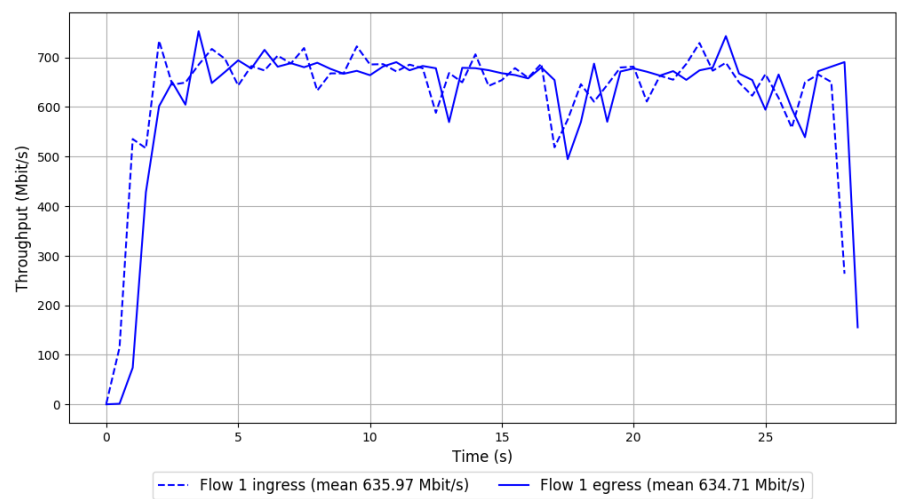
-- Flow 1:

Average throughput: 634.71 Mbit/s

95th percentile per-packet one-way delay: 160.184 ms

Loss rate: 0.64%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

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

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

Local clock offset: -0.02 ms

Remote clock offset: 0.047 ms

Below is generated by plot.py at 2019-11-24 13:55:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 590.04 Mbit/s

95th percentile per-packet one-way delay: 144.010 ms

Loss rate: 0.65%

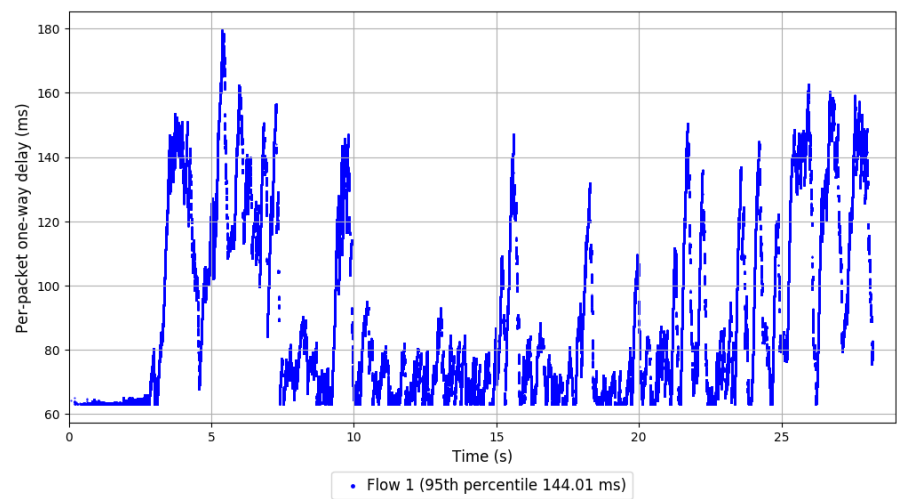
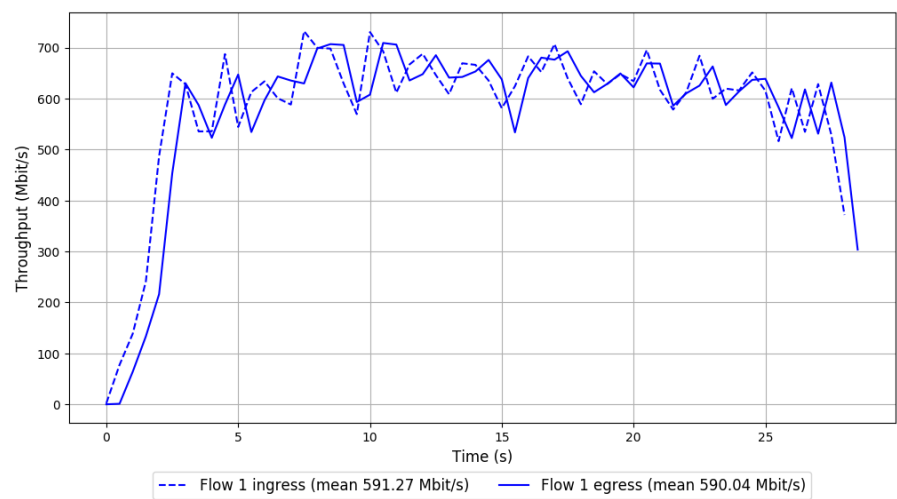
-- Flow 1:

Average throughput: 590.04 Mbit/s

95th percentile per-packet one-way delay: 144.010 ms

Loss rate: 0.65%

Run 2: Report of Indigo-MusesC5 — Data Link

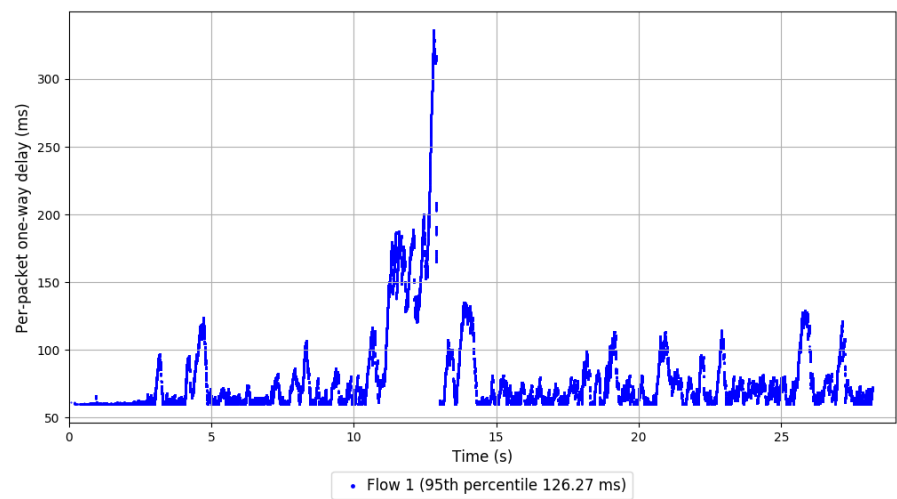
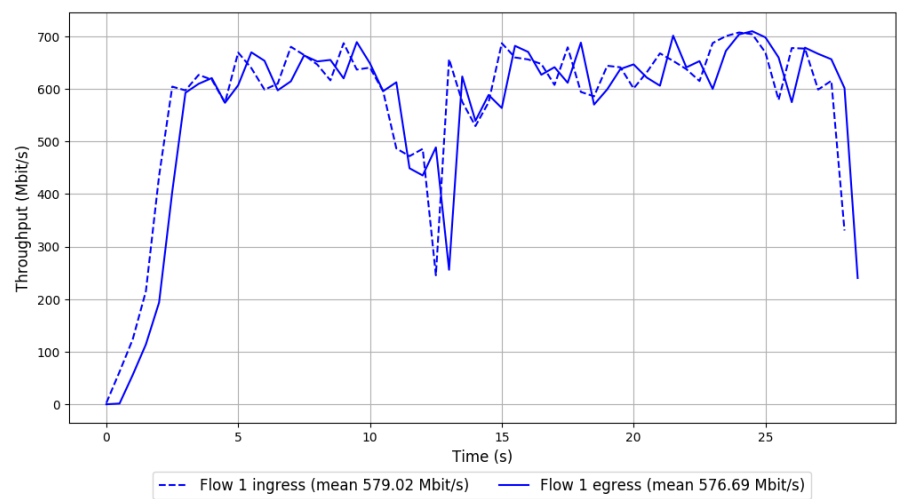


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-11-24 11:34:44
End at: 2019-11-24 11:35:14
Local clock offset: -0.165 ms
Remote clock offset: -0.145 ms

Below is generated by plot.py at 2019-11-24 13:55:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 576.69 Mbit/s
95th percentile per-packet one-way delay: 126.265 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 576.69 Mbit/s
95th percentile per-packet one-way delay: 126.265 ms
Loss rate: 0.84%

Run 3: Report of Indigo-MusesC5 — Data Link

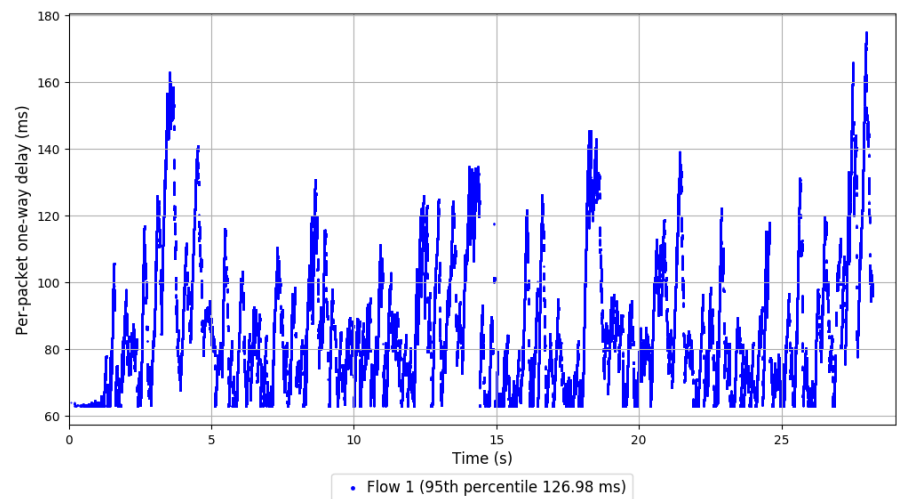
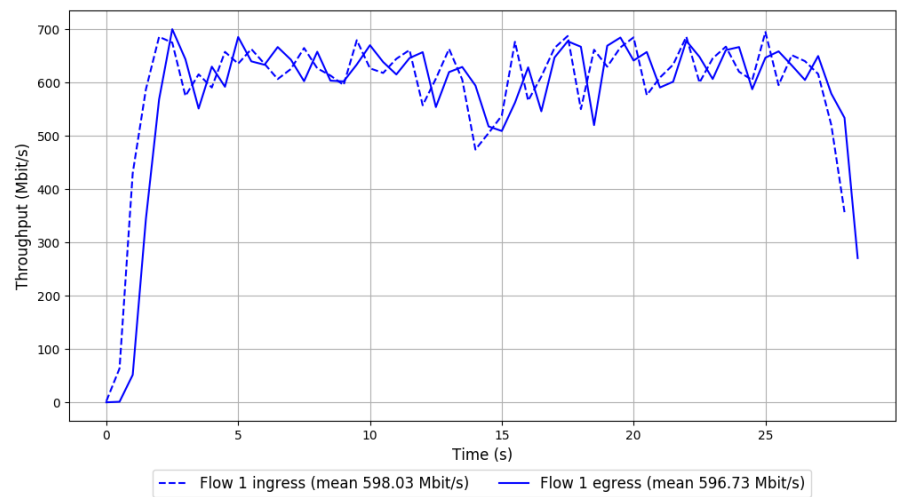


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-11-24 12:08:42
End at: 2019-11-24 12:09:12
Local clock offset: -0.237 ms
Remote clock offset: -0.051 ms

Below is generated by plot.py at 2019-11-24 13:56:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 596.73 Mbit/s
95th percentile per-packet one-way delay: 126.980 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 596.73 Mbit/s
95th percentile per-packet one-way delay: 126.980 ms
Loss rate: 0.67%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-11-24 12:42:54

End at: 2019-11-24 12:43:24

Local clock offset: -0.307 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2019-11-24 13:57:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 578.23 Mbit/s

95th percentile per-packet one-way delay: 148.399 ms

Loss rate: 0.64%

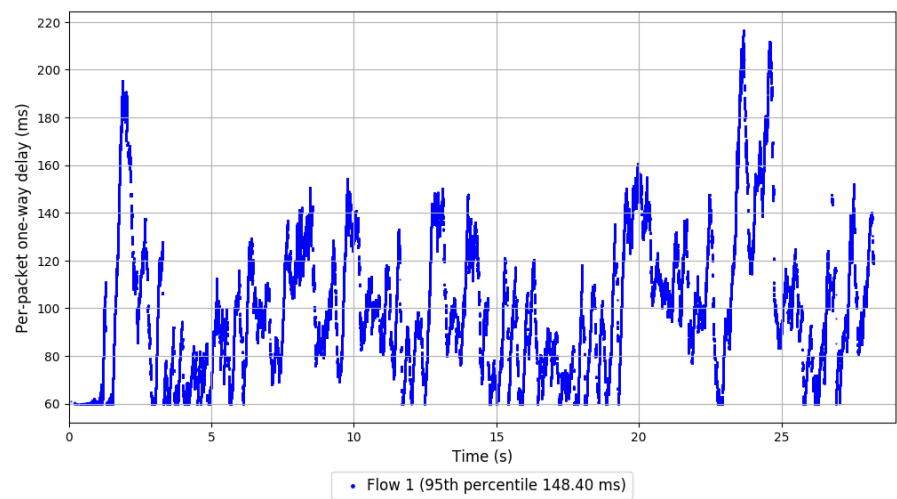
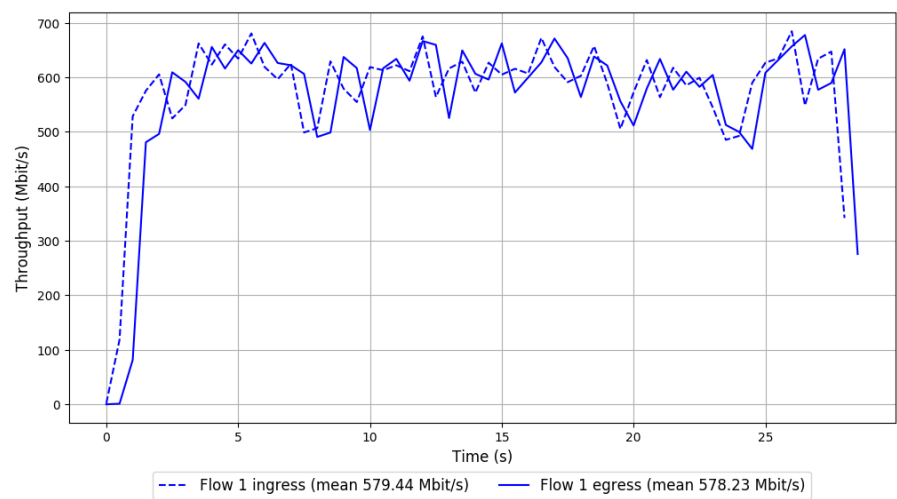
-- Flow 1:

Average throughput: 578.23 Mbit/s

95th percentile per-packet one-way delay: 148.399 ms

Loss rate: 0.64%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

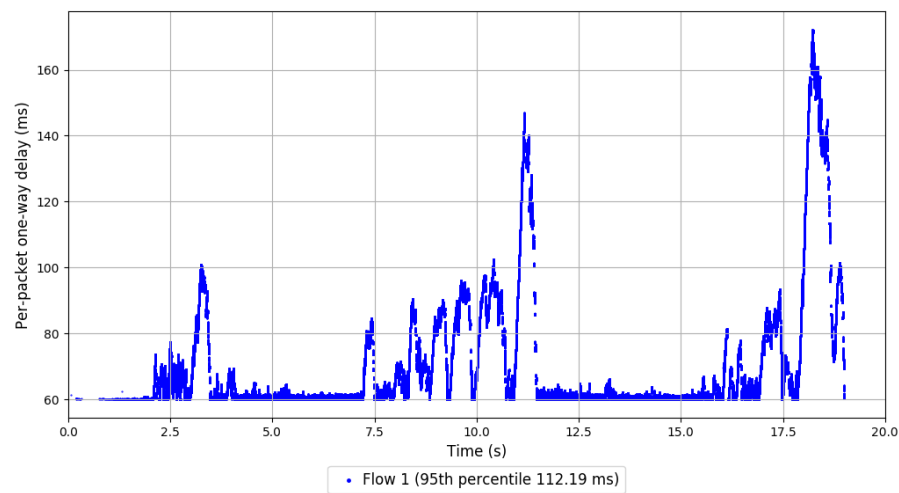
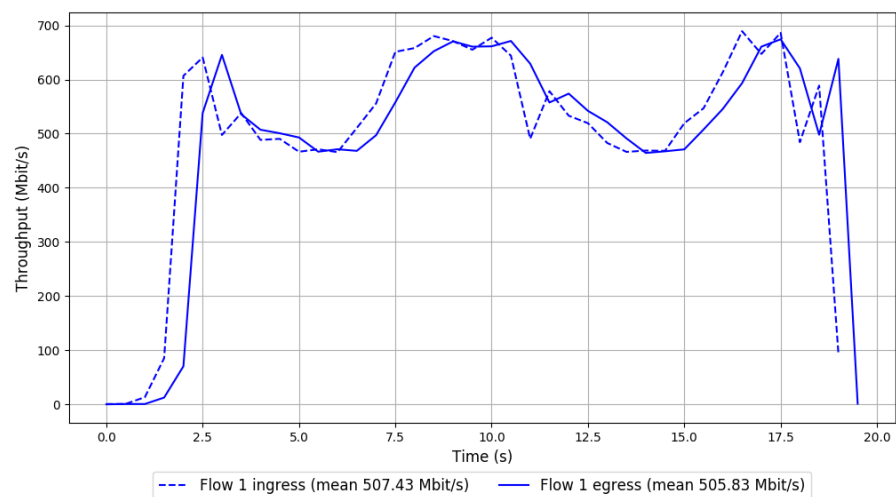
Start at: 2019-11-24 10:05:23

End at: 2019-11-24 10:05:53

Local clock offset: -0.133 ms

Remote clock offset: -0.03 ms

Run 1: Report of Indigo-MusesD — Data Link

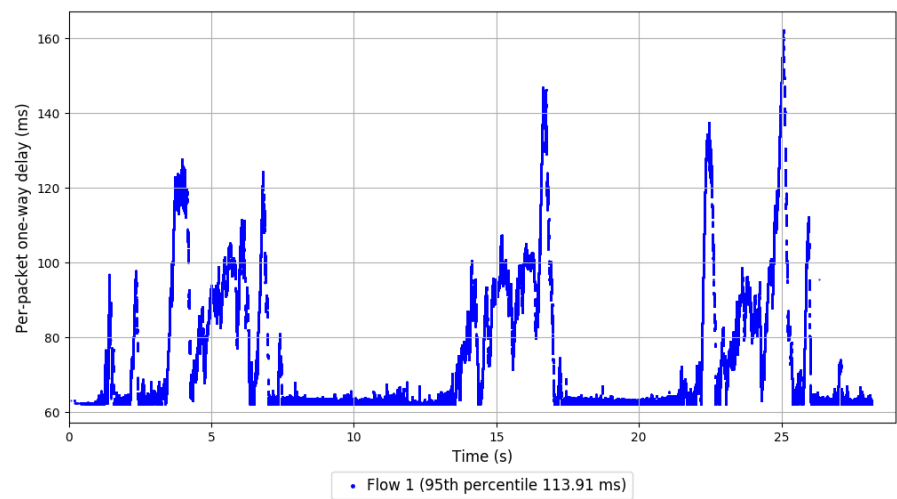
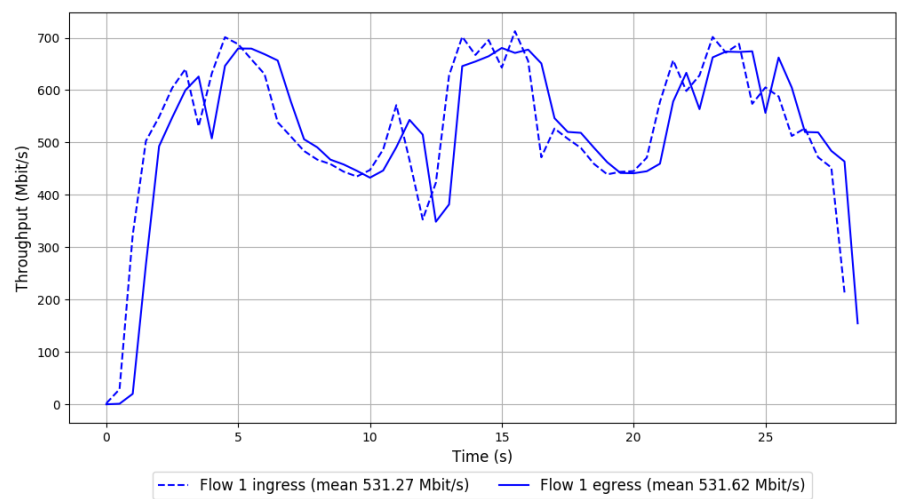


Run 2: Statistics of Indigo-MusesD

Start at: 2019-11-24 10:39:57
End at: 2019-11-24 10:40:27
Local clock offset: -0.001 ms
Remote clock offset: -0.088 ms

Below is generated by plot.py at 2019-11-24 13:59:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 531.62 Mbit/s
95th percentile per-packet one-way delay: 113.909 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 531.62 Mbit/s
95th percentile per-packet one-way delay: 113.909 ms
Loss rate: 0.37%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-11-24 11:14:28

End at: 2019-11-24 11:14:58

Local clock offset: -0.046 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2019-11-24 14:00:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 526.28 Mbit/s

95th percentile per-packet one-way delay: 97.847 ms

Loss rate: 0.60%

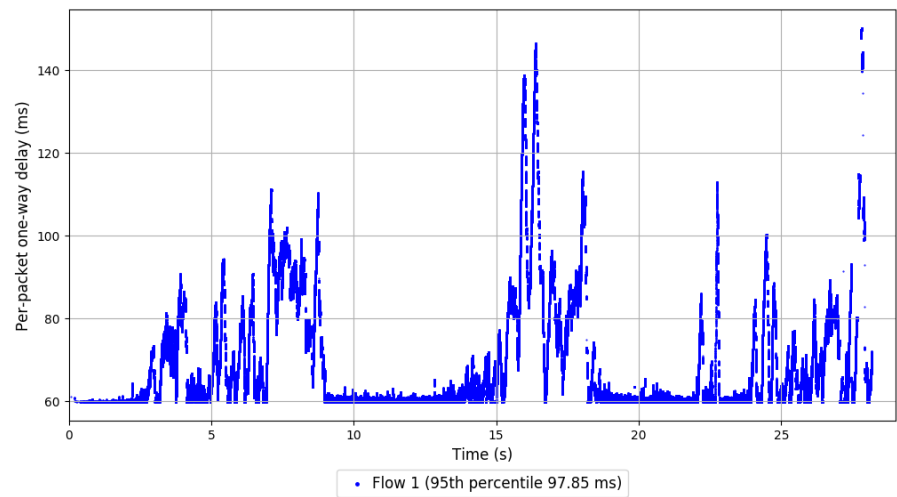
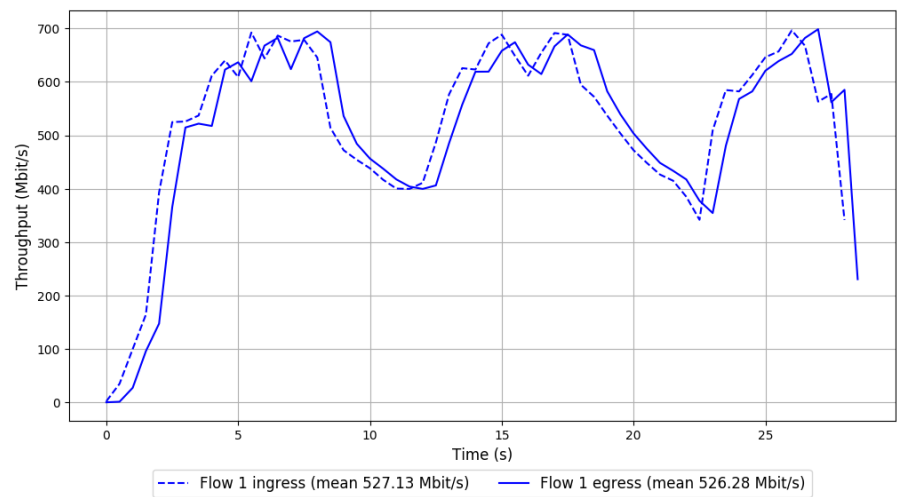
-- Flow 1:

Average throughput: 526.28 Mbit/s

95th percentile per-packet one-way delay: 97.847 ms

Loss rate: 0.60%

Run 3: Report of Indigo-MusesD — Data Link

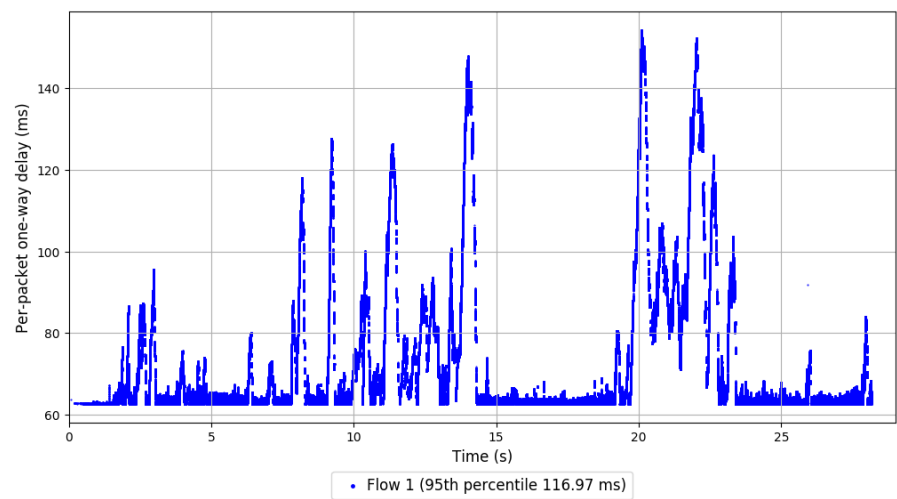
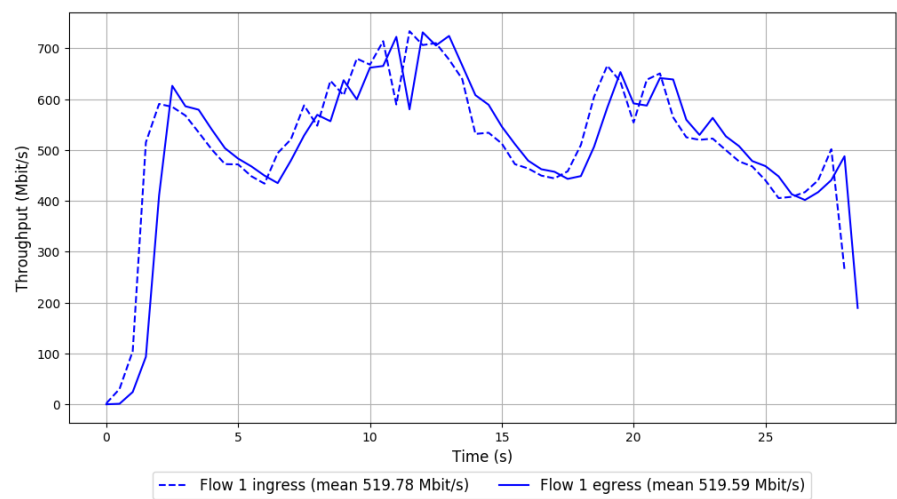


Run 4: Statistics of Indigo-MusesD

Start at: 2019-11-24 11:48:29
End at: 2019-11-24 11:48:59
Local clock offset: -0.176 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2019-11-24 14:02:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 519.59 Mbit/s
95th percentile per-packet one-way delay: 116.967 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 519.59 Mbit/s
95th percentile per-packet one-way delay: 116.967 ms
Loss rate: 0.49%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-11-24 12:22:42

End at: 2019-11-24 12:23:12

Local clock offset: -0.264 ms

Remote clock offset: 0.047 ms

Below is generated by plot.py at 2019-11-24 14:04:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 553.72 Mbit/s

95th percentile per-packet one-way delay: 119.816 ms

Loss rate: 0.52%

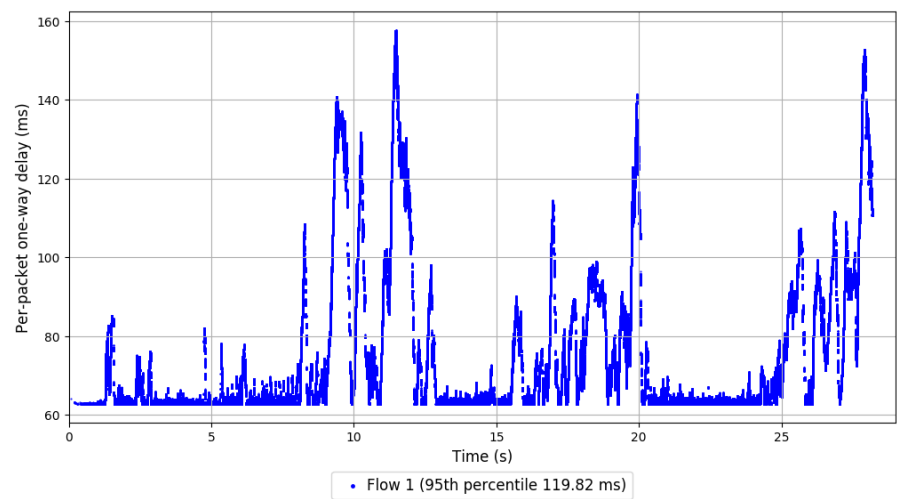
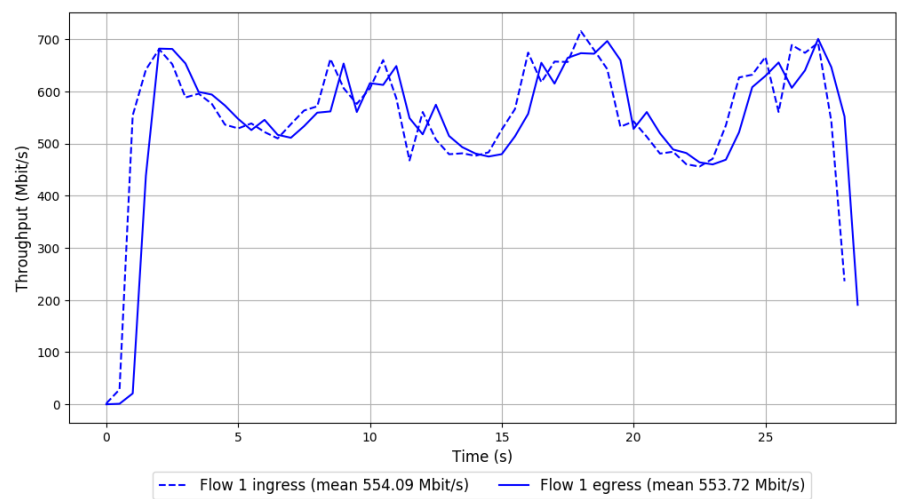
-- Flow 1:

Average throughput: 553.72 Mbit/s

95th percentile per-packet one-way delay: 119.816 ms

Loss rate: 0.52%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-11-24 10:24:09

End at: 2019-11-24 10:24:39

Local clock offset: -0.031 ms

Remote clock offset: 0.085 ms

Below is generated by plot.py at 2019-11-24 14:06:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 639.10 Mbit/s

95th percentile per-packet one-way delay: 120.761 ms

Loss rate: 0.50%

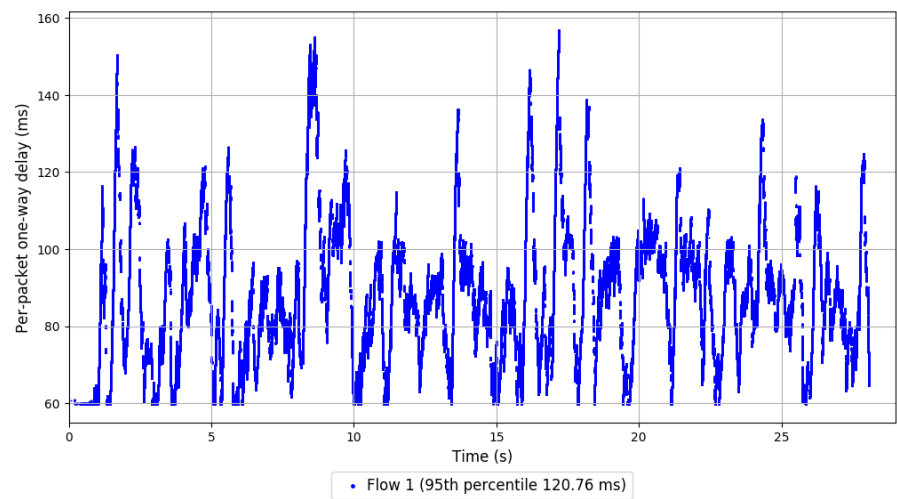
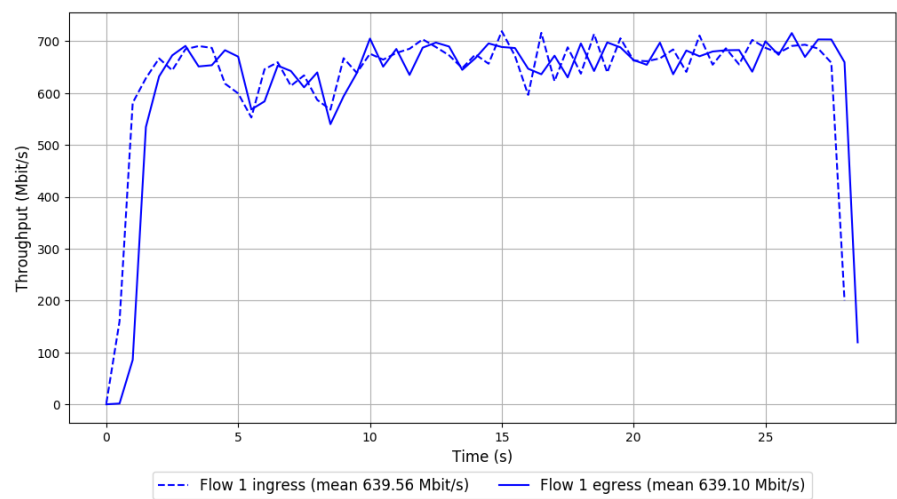
-- Flow 1:

Average throughput: 639.10 Mbit/s

95th percentile per-packet one-way delay: 120.761 ms

Loss rate: 0.50%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-11-24 10:58:43

End at: 2019-11-24 10:59:13

Local clock offset: -0.034 ms

Remote clock offset: -0.017 ms

Below is generated by plot.py at 2019-11-24 14:06:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 551.18 Mbit/s

95th percentile per-packet one-way delay: 126.364 ms

Loss rate: 0.80%

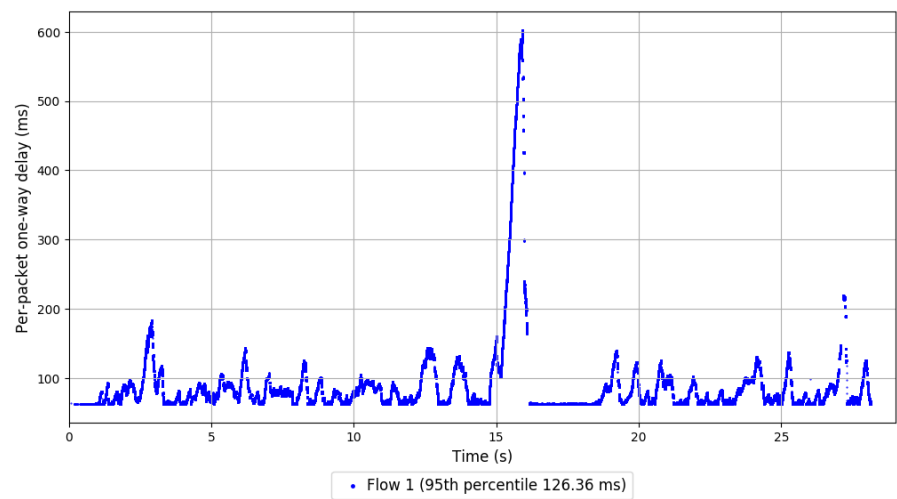
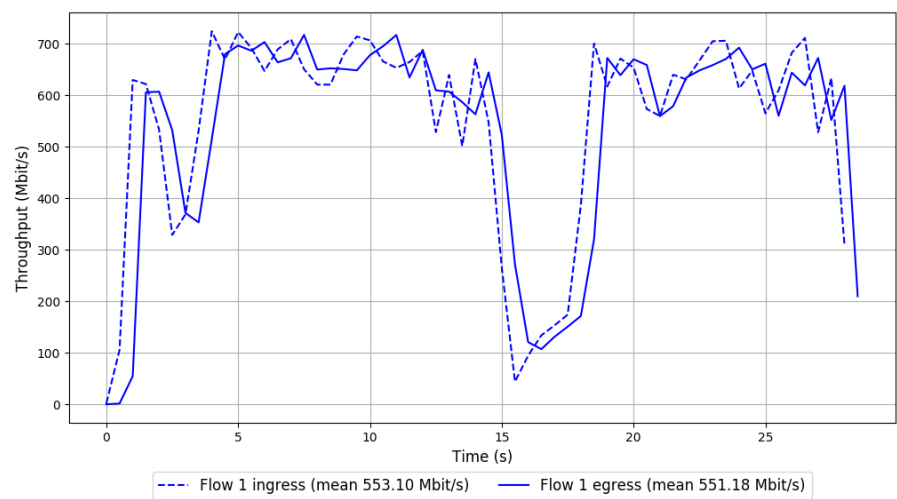
-- Flow 1:

Average throughput: 551.18 Mbit/s

95th percentile per-packet one-way delay: 126.364 ms

Loss rate: 0.80%

Run 2: Report of Indigo-MusesT — Data Link

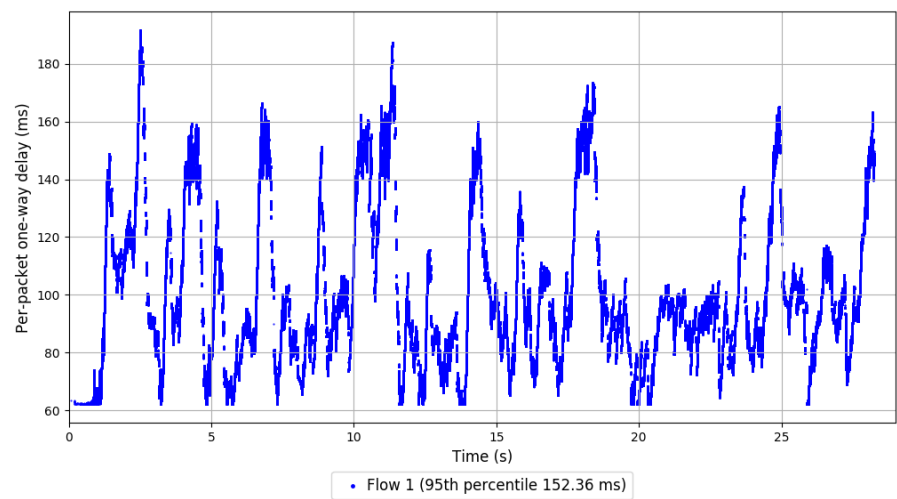
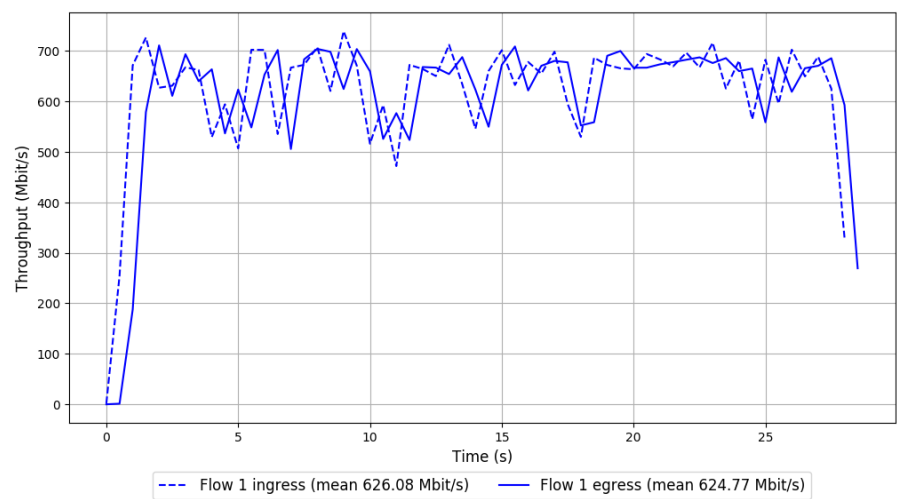


Run 3: Statistics of Indigo-MusesT

Start at: 2019-11-24 11:33:09
End at: 2019-11-24 11:33:39
Local clock offset: -0.134 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2019-11-24 14:07:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 624.77 Mbit/s
95th percentile per-packet one-way delay: 152.363 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 624.77 Mbit/s
95th percentile per-packet one-way delay: 152.363 ms
Loss rate: 0.65%

Run 3: Report of Indigo-MusesT — Data Link

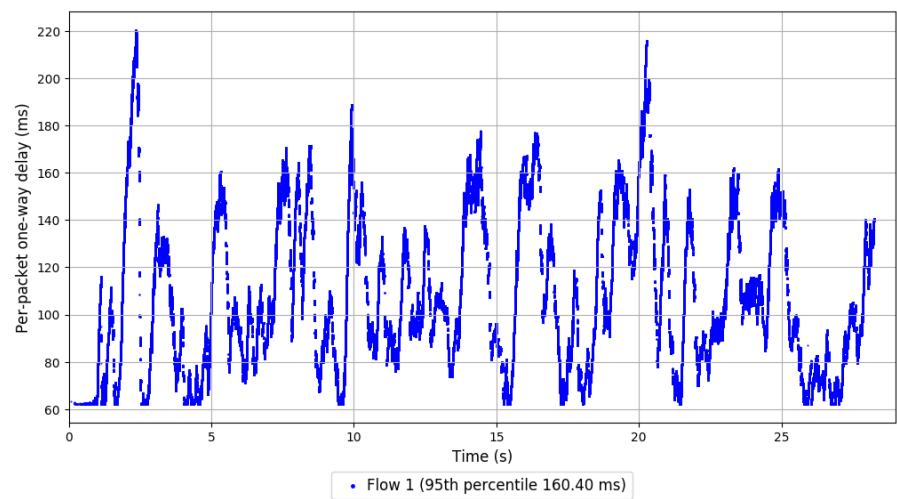
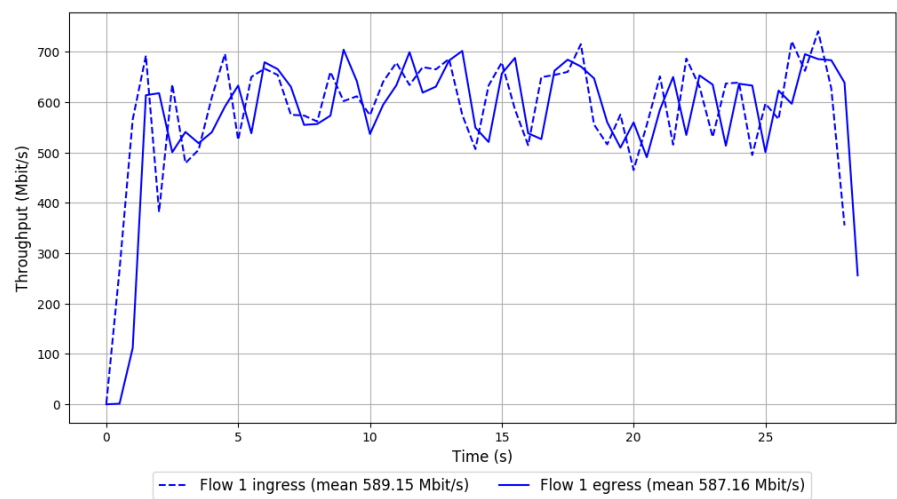


Run 4: Statistics of Indigo-MusesT

Start at: 2019-11-24 12:07:09
End at: 2019-11-24 12:07:39
Local clock offset: -0.232 ms
Remote clock offset: -0.121 ms

Below is generated by plot.py at 2019-11-24 14:07:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 587.16 Mbit/s
95th percentile per-packet one-way delay: 160.400 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 587.16 Mbit/s
95th percentile per-packet one-way delay: 160.400 ms
Loss rate: 0.78%

Run 4: Report of Indigo-MusesT — Data Link

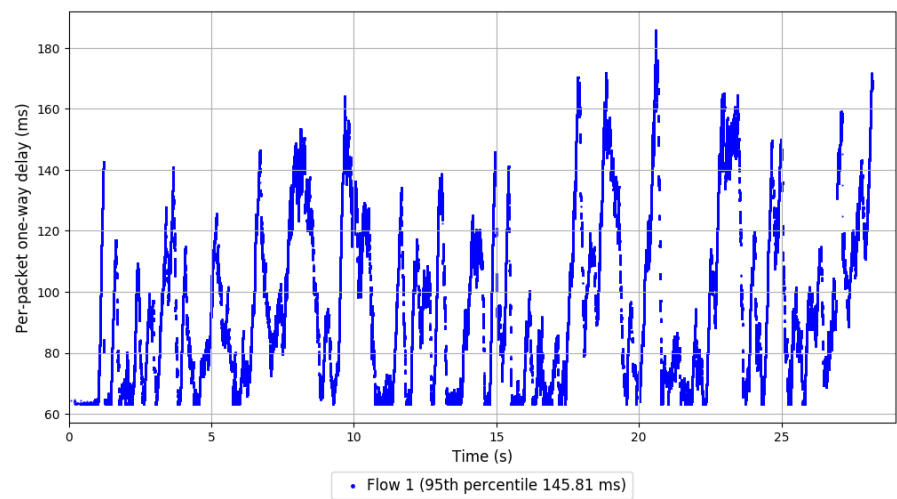
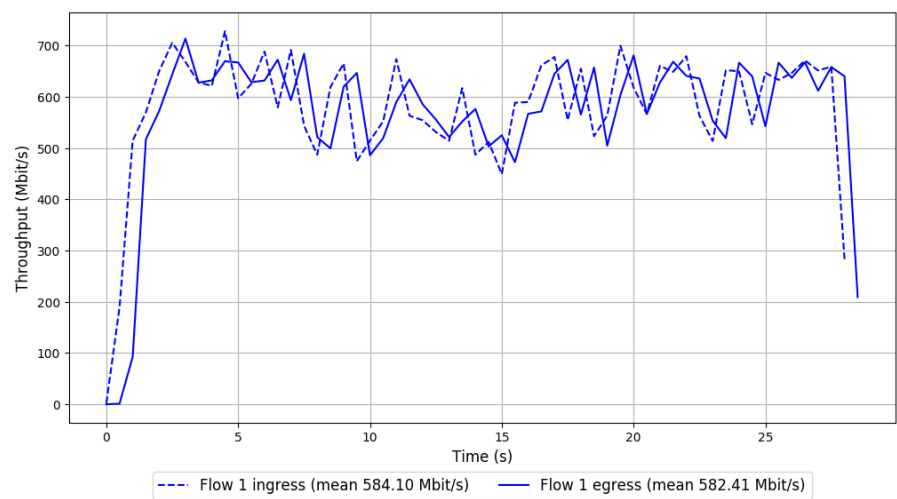


Run 5: Statistics of Indigo-MusesT

Start at: 2019-11-24 12:41:20
End at: 2019-11-24 12:41:50
Local clock offset: -0.301 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2019-11-24 14:09:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 582.41 Mbit/s
95th percentile per-packet one-way delay: 145.811 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 582.41 Mbit/s
95th percentile per-packet one-way delay: 145.811 ms
Loss rate: 0.74%

Run 5: Report of Indigo-MusesT — Data Link

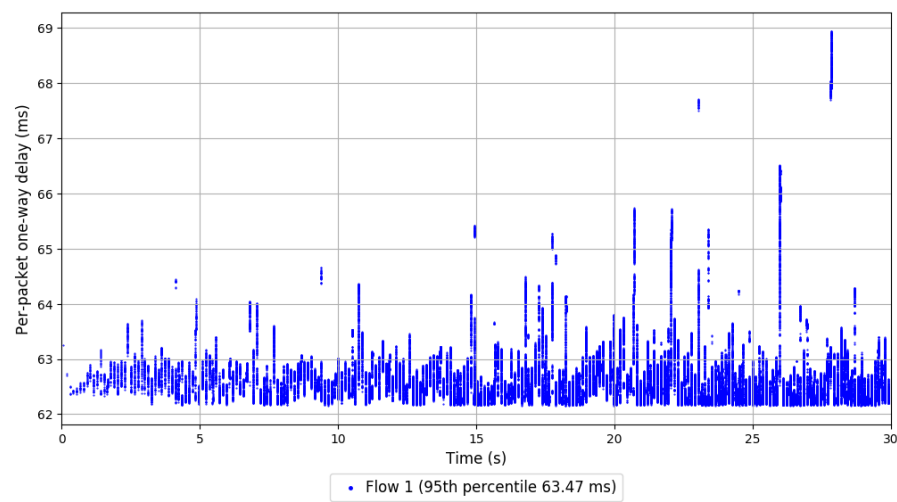
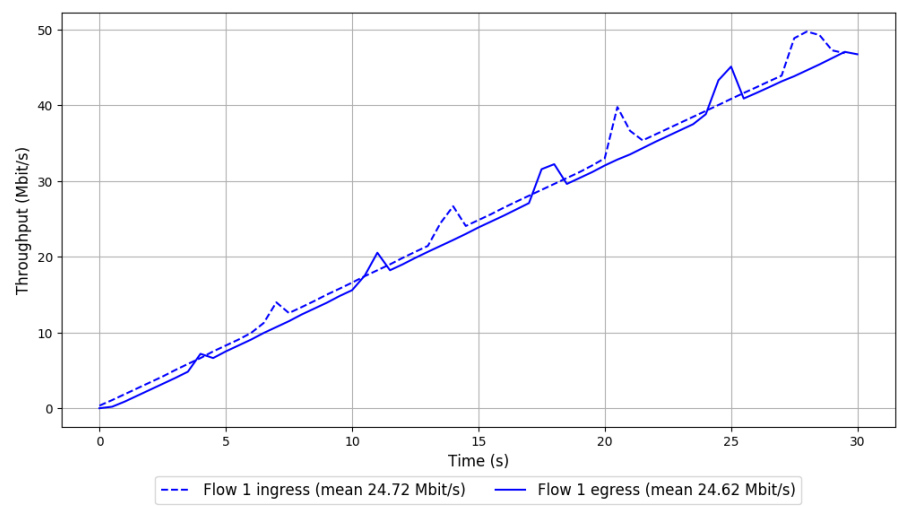


```
Run 1: Statistics of LEDBAT

Start at: 2019-11-24 10:27:20
End at: 2019-11-24 10:27:50
Local clock offset: 0.043 ms
Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2019-11-24 14:09:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.62 Mbit/s
95th percentile per-packet one-way delay: 63.466 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 24.62 Mbit/s
95th percentile per-packet one-way delay: 63.466 ms
Loss rate: 0.81%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

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

End at: 2019-11-24 11:02:19

Local clock offset: -0.029 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2019-11-24 14:09:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.07 Mbit/s

95th percentile per-packet one-way delay: 63.901 ms

Loss rate: 0.70%

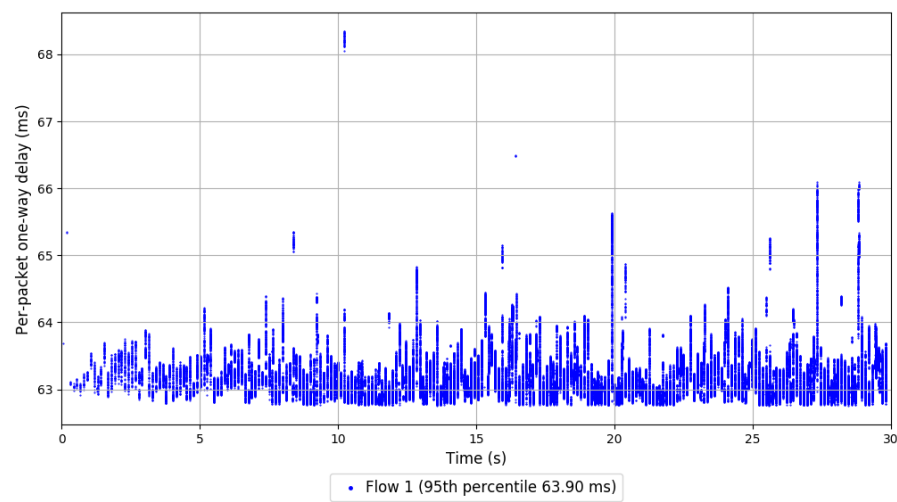
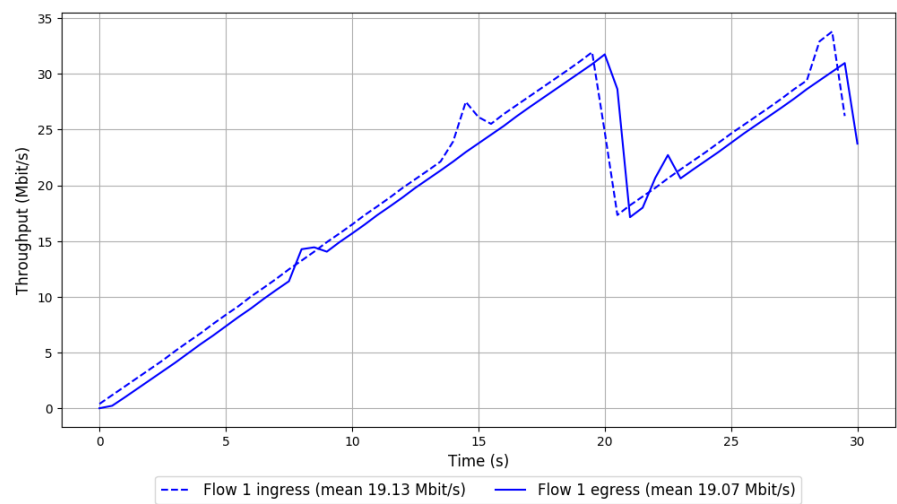
-- Flow 1:

Average throughput: 19.07 Mbit/s

95th percentile per-packet one-way delay: 63.901 ms

Loss rate: 0.70%

Run 2: Report of LEDBAT — Data Link

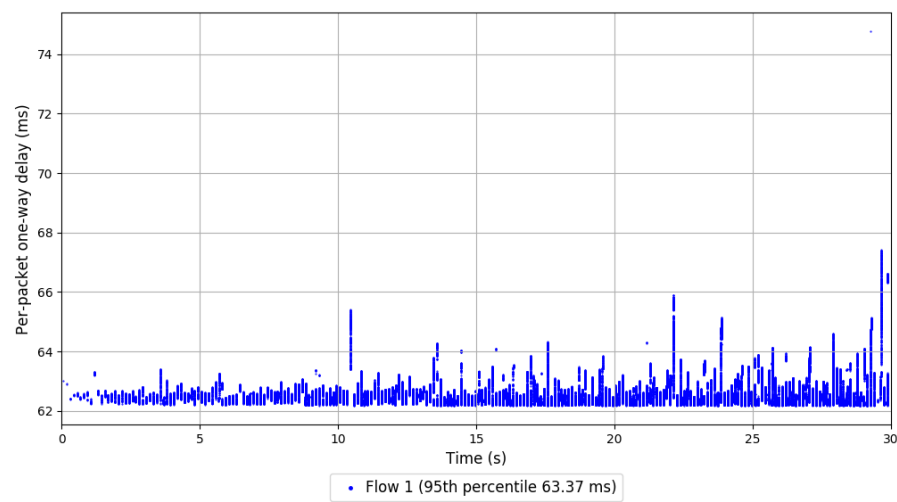
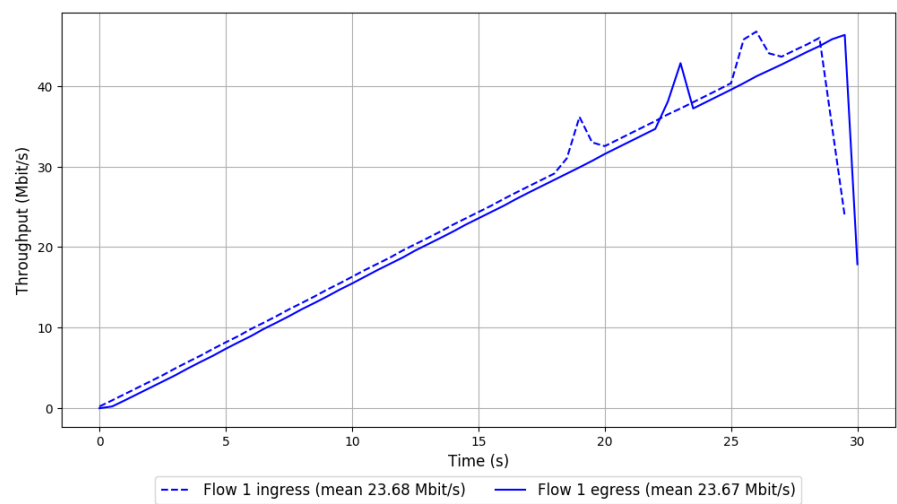


Run 3: Statistics of LEDBAT

Start at: 2019-11-24 11:36:17
End at: 2019-11-24 11:36:47
Local clock offset: -0.148 ms
Remote clock offset: -0.096 ms

Below is generated by plot.py at 2019-11-24 14:09:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 23.67 Mbit/s
95th percentile per-packet one-way delay: 63.366 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 23.67 Mbit/s
95th percentile per-packet one-way delay: 63.366 ms
Loss rate: 0.43%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-11-24 12:10:16

End at: 2019-11-24 12:10:46

Local clock offset: -0.271 ms

Remote clock offset: 0.061 ms

Below is generated by plot.py at 2019-11-24 14:09:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.56 Mbit/s

95th percentile per-packet one-way delay: 66.478 ms

Loss rate: 0.83%

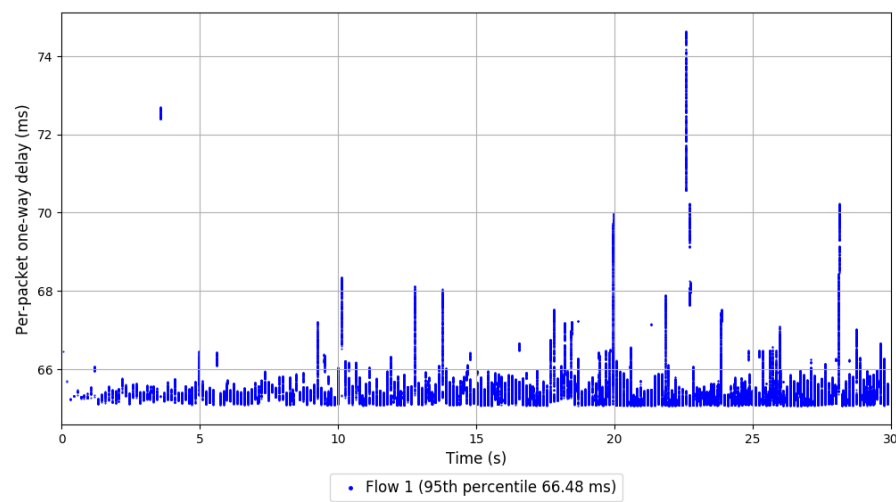
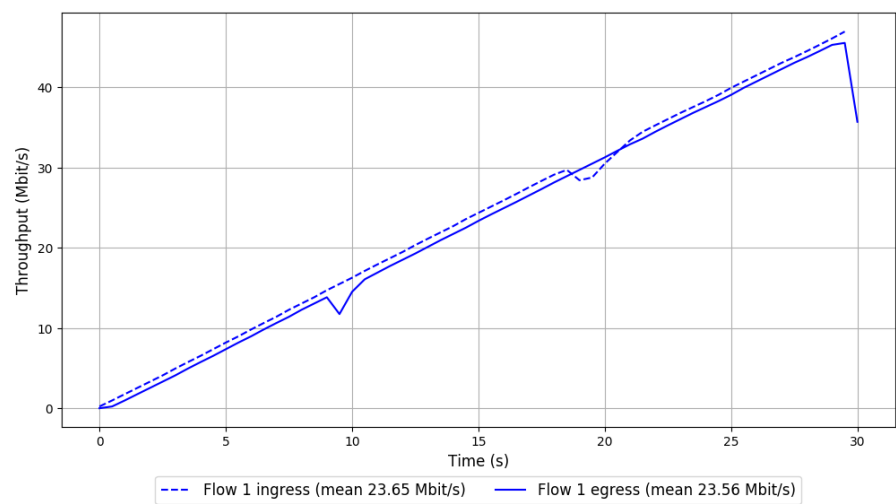
-- Flow 1:

Average throughput: 23.56 Mbit/s

95th percentile per-packet one-way delay: 66.478 ms

Loss rate: 0.83%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-11-24 12:44:27

End at: 2019-11-24 12:44:57

Local clock offset: -0.291 ms

Remote clock offset: 0.065 ms

Below is generated by plot.py at 2019-11-24 14:09:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.08 Mbit/s

95th percentile per-packet one-way delay: 61.197 ms

Loss rate: 0.42%

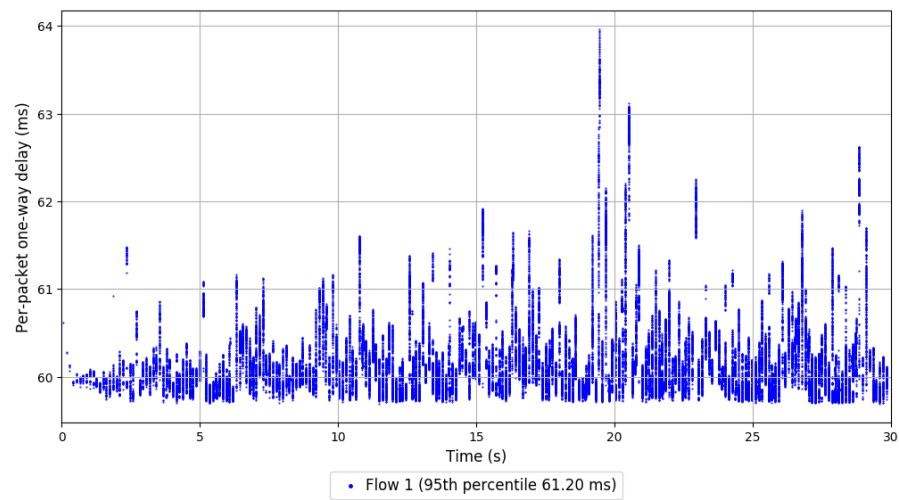
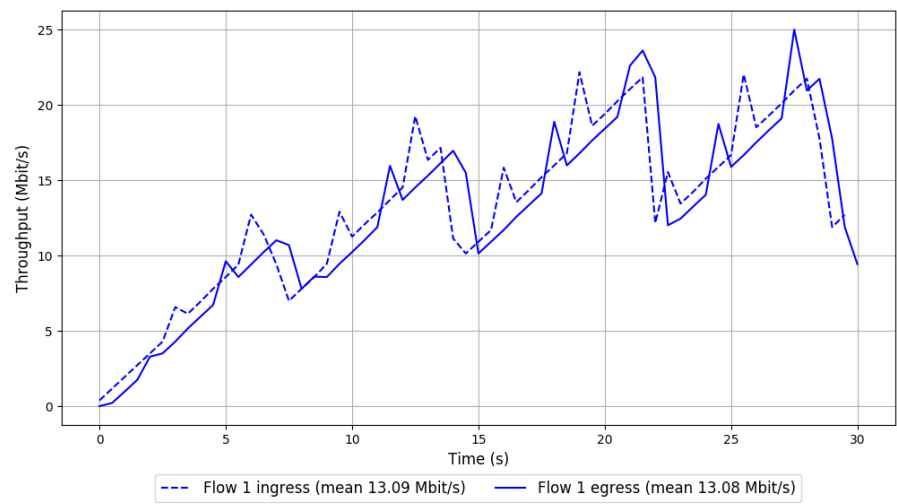
-- Flow 1:

Average throughput: 13.08 Mbit/s

95th percentile per-packet one-way delay: 61.197 ms

Loss rate: 0.42%

Run 5: Report of LEDBAT — Data Link

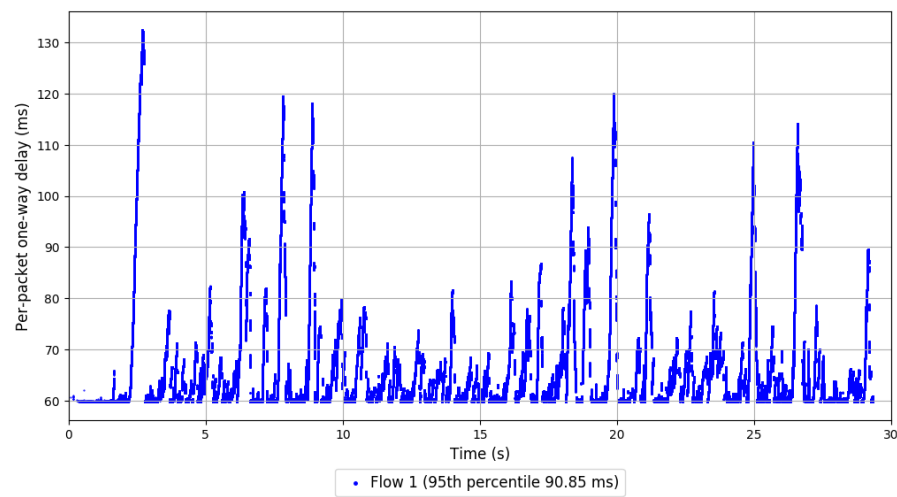
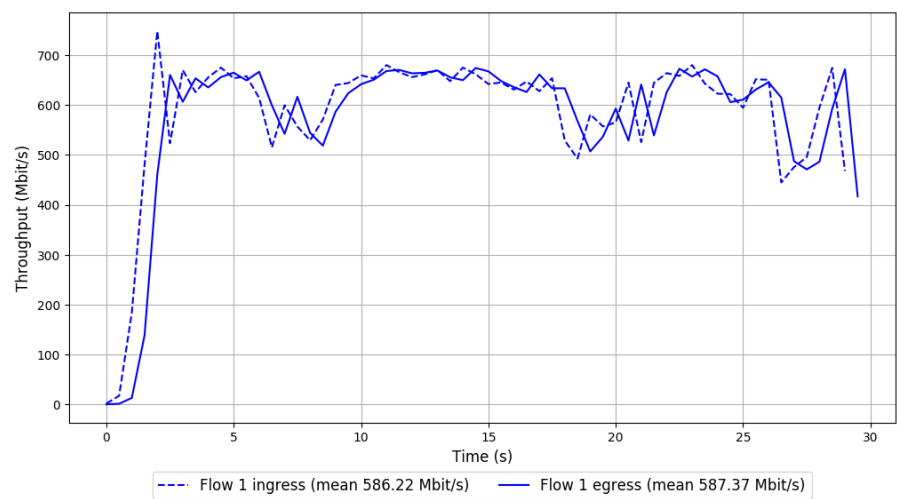


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-11-24 10:03:48
End at: 2019-11-24 10:04:18
Local clock offset: -0.162 ms
Remote clock offset: 0.04 ms

# Below is generated by plot.py at 2019-11-24 14:14:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 587.37 Mbit/s
95th percentile per-packet one-way delay: 90.852 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 587.37 Mbit/s
95th percentile per-packet one-way delay: 90.852 ms
Loss rate: 0.40%
```


Run 1: Report of Muses_DecisionTree — Data Link

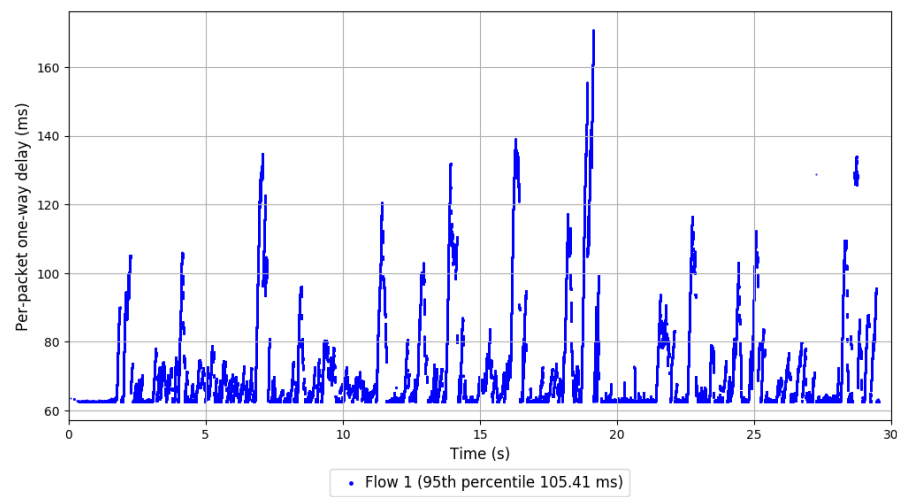
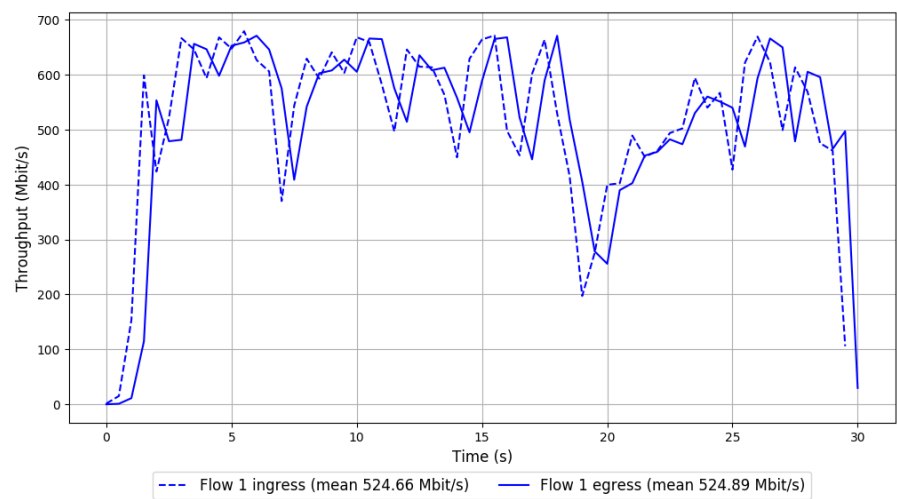


Run 2: Statistics of Muses_DecisionTree

Start at: 2019-11-24 10:38:25
End at: 2019-11-24 10:38:55
Local clock offset: -0.009 ms
Remote clock offset: -0.054 ms

Below is generated by plot.py at 2019-11-24 14:14:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 524.89 Mbit/s
95th percentile per-packet one-way delay: 105.408 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 524.89 Mbit/s
95th percentile per-packet one-way delay: 105.408 ms
Loss rate: 0.37%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

Start at: 2019-11-24 11:12:54

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

Local clock offset: -0.037 ms

Remote clock offset: 0.117 ms

Below is generated by plot.py at 2019-11-24 14:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 571.79 Mbit/s

95th percentile per-packet one-way delay: 97.073 ms

Loss rate: 0.45%

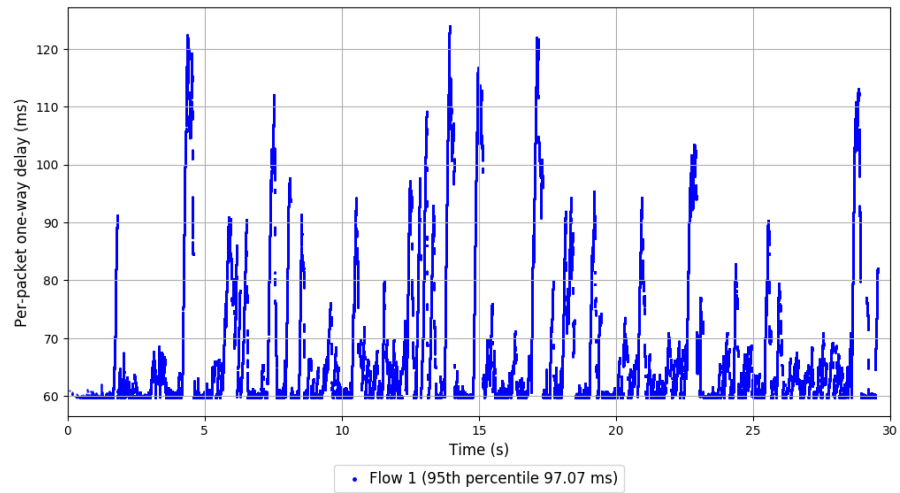
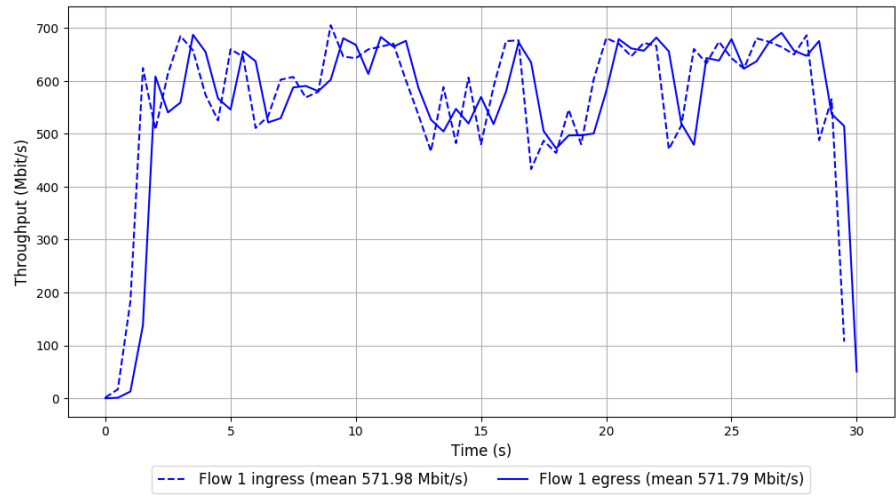
-- Flow 1:

Average throughput: 571.79 Mbit/s

95th percentile per-packet one-way delay: 97.073 ms

Loss rate: 0.45%

Run 3: Report of Muses_DecisionTree — Data Link

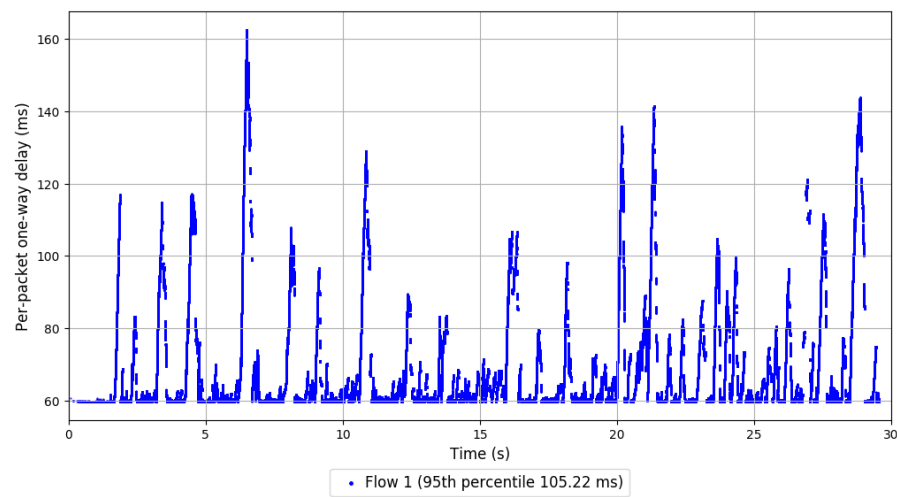
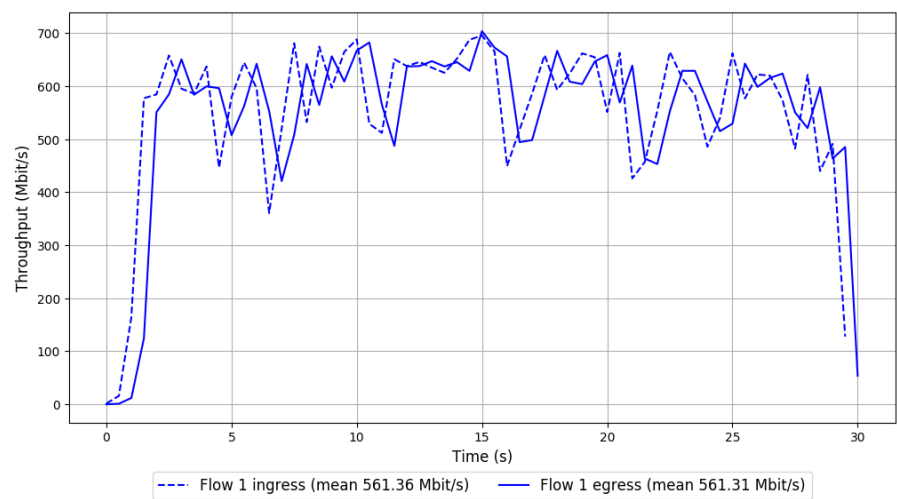


Run 4: Statistics of Muses_DecisionTree

Start at: 2019-11-24 11:46:55
End at: 2019-11-24 11:47:25
Local clock offset: -0.176 ms
Remote clock offset: -0.153 ms

Below is generated by plot.py at 2019-11-24 14:14:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 561.31 Mbit/s
95th percentile per-packet one-way delay: 105.222 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 561.31 Mbit/s
95th percentile per-packet one-way delay: 105.222 ms
Loss rate: 0.43%

Run 4: Report of Muses_DecisionTree — Data Link

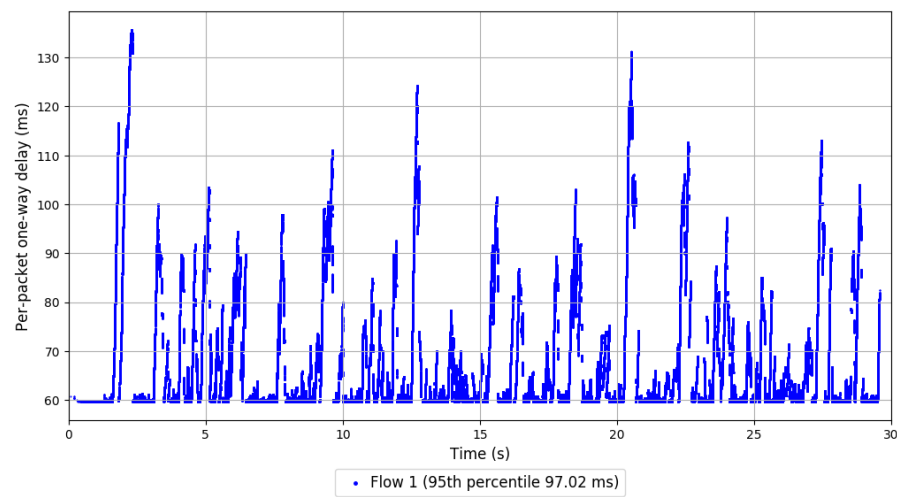
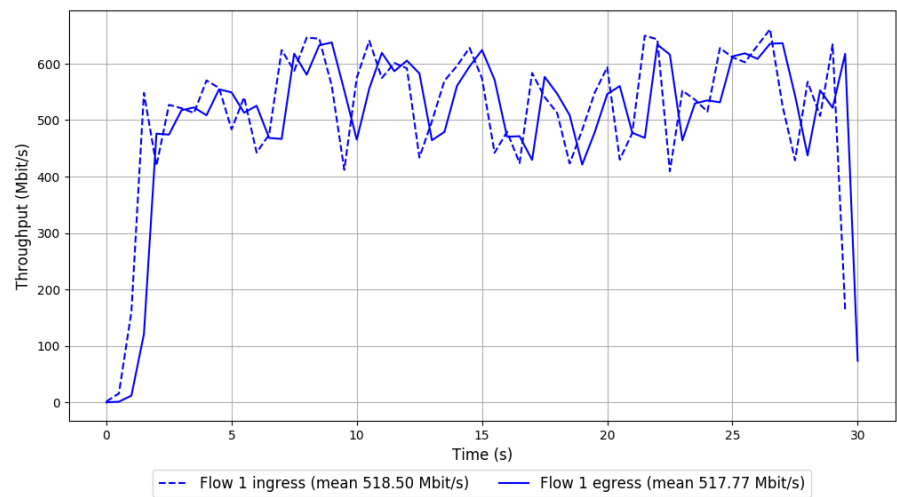


Run 5: Statistics of Muses_DecisionTree

Start at: 2019-11-24 12:21:11
End at: 2019-11-24 12:21:41
Local clock offset: -0.254 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2019-11-24 14:15:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 517.77 Mbit/s
95th percentile per-packet one-way delay: 97.016 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 517.77 Mbit/s
95th percentile per-packet one-way delay: 97.016 ms
Loss rate: 0.56%

Run 5: Report of Muses_DecisionTree — Data Link

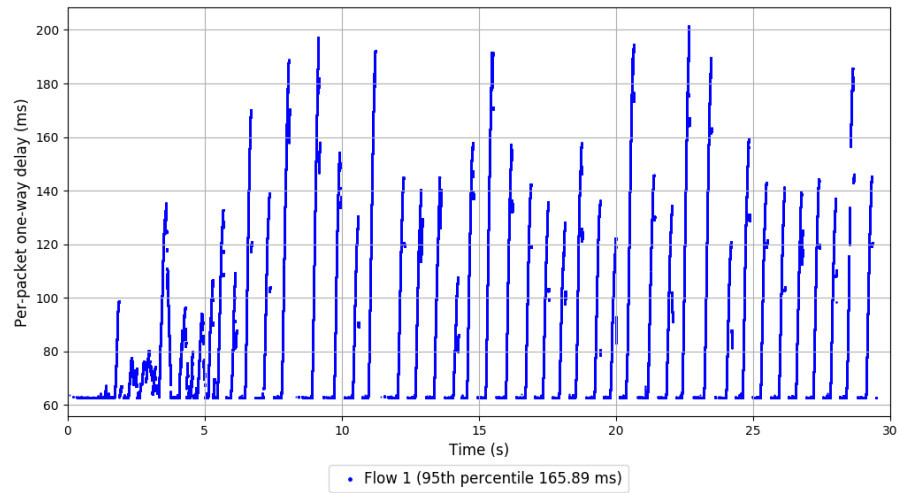
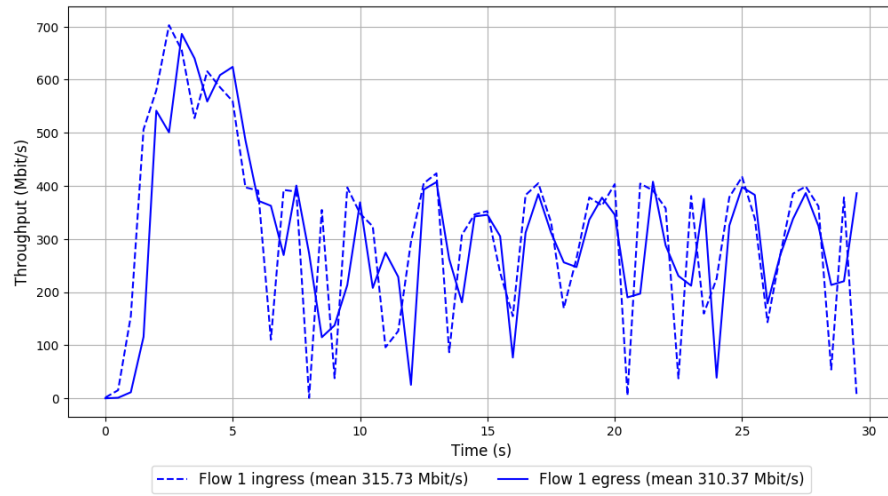


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-11-24 10:11:10
End at: 2019-11-24 10:11:40
Local clock offset: -0.08 ms
Remote clock offset: 0.111 ms

# Below is generated by plot.py at 2019-11-24 14:15:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 310.37 Mbit/s
95th percentile per-packet one-way delay: 165.893 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 310.37 Mbit/s
95th percentile per-packet one-way delay: 165.893 ms
Loss rate: 2.11%
```

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-11-24 10:45:45

End at: 2019-11-24 10:46:15

Local clock offset: 0.031 ms

Remote clock offset: 0.137 ms

Below is generated by plot.py at 2019-11-24 14:15:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 285.00 Mbit/s

95th percentile per-packet one-way delay: 151.272 ms

Loss rate: 1.73%

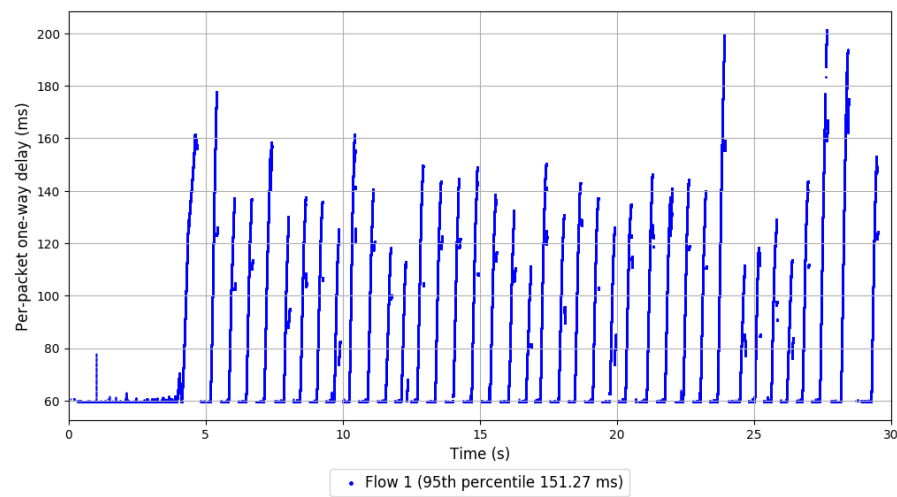
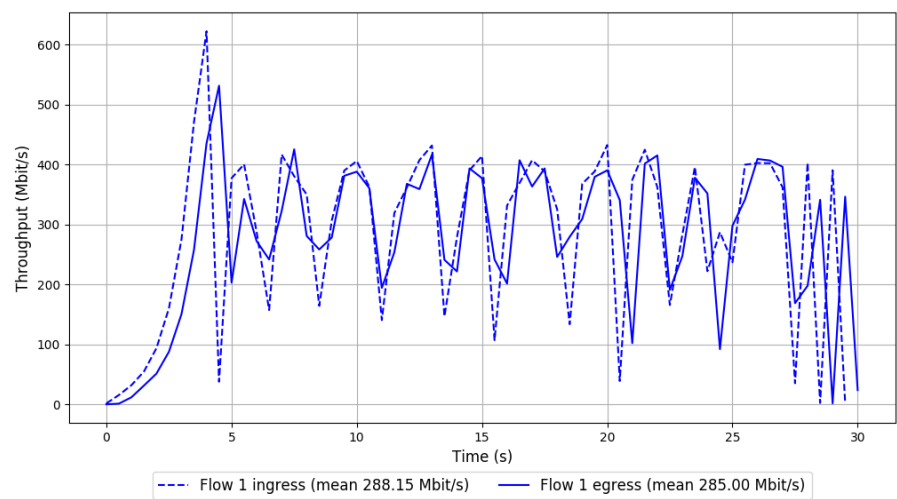
-- Flow 1:

Average throughput: 285.00 Mbit/s

95th percentile per-packet one-way delay: 151.272 ms

Loss rate: 1.73%

Run 2: Report of Muses_DecisionTreeH0 — Data Link

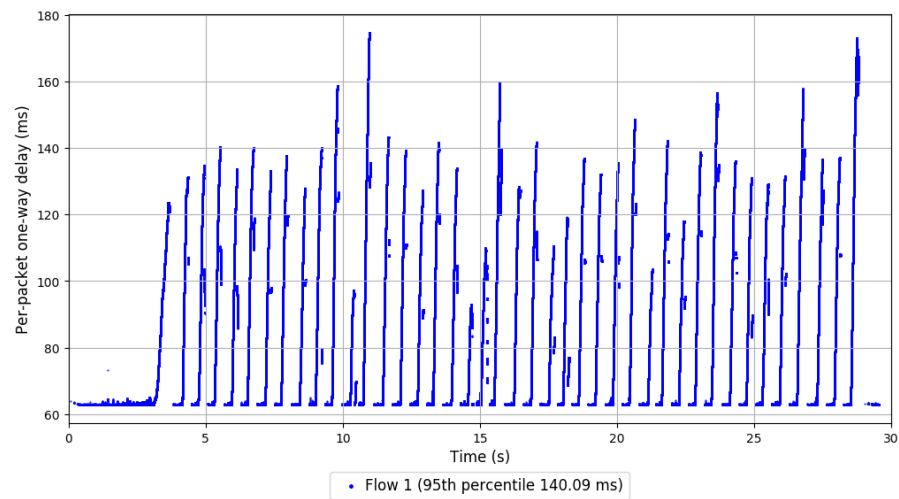
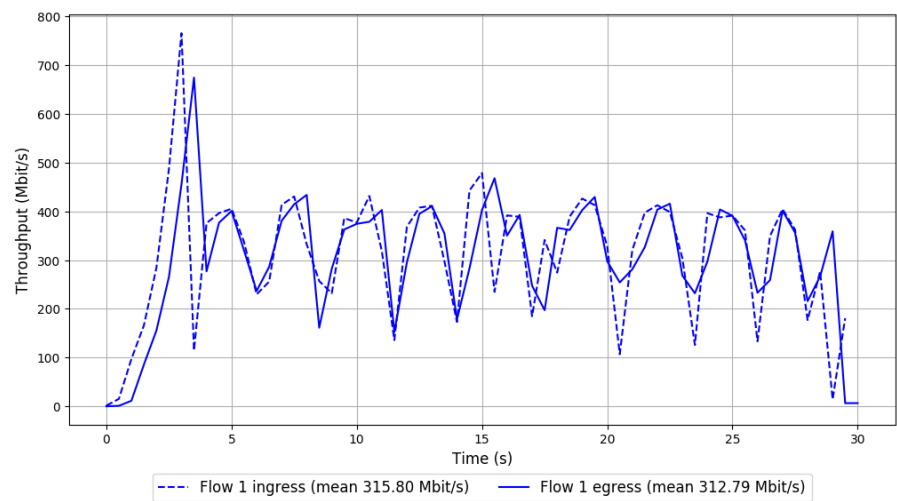


Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-11-24 11:20:18
End at: 2019-11-24 11:20:48
Local clock offset: -0.06 ms
Remote clock offset: -0.174 ms

Below is generated by plot.py at 2019-11-24 14:15:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 312.79 Mbit/s
95th percentile per-packet one-way delay: 140.094 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 312.79 Mbit/s
95th percentile per-packet one-way delay: 140.094 ms
Loss rate: 1.38%

Run 3: Report of Muses_DecisionTreeH0 — Data Link

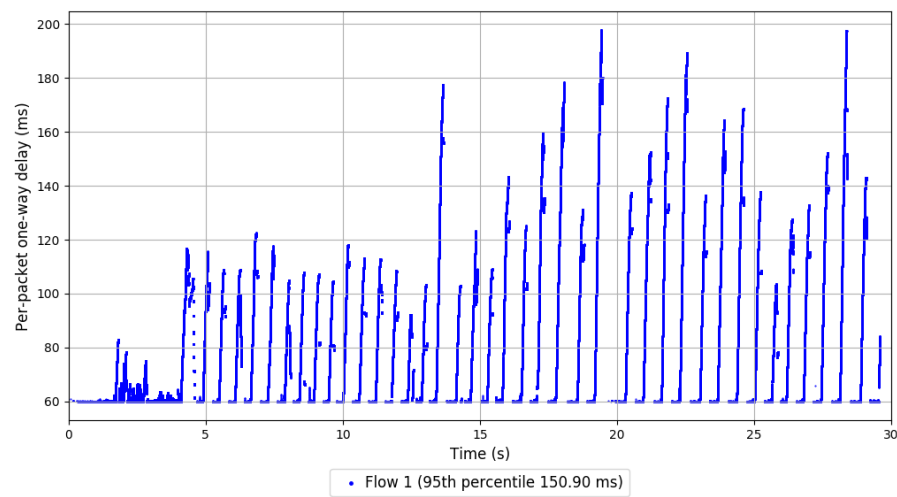
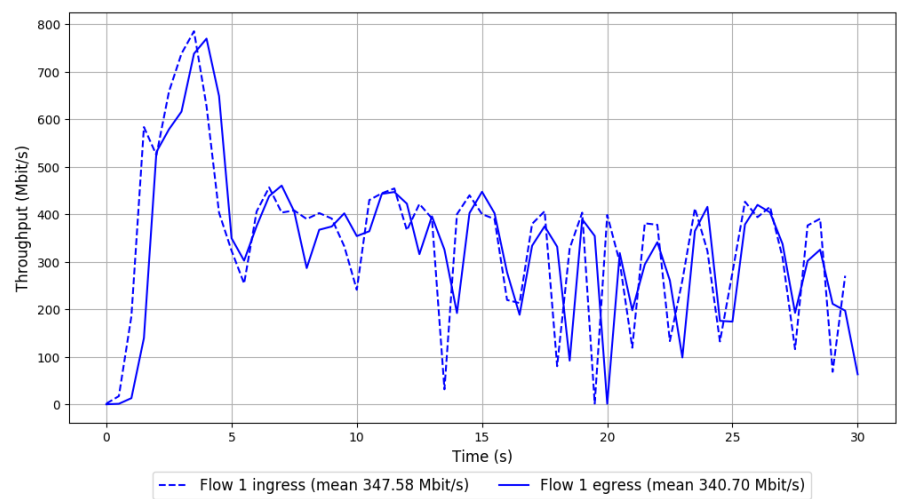


Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-11-24 11:54:10
End at: 2019-11-24 11:54:40
Local clock offset: -0.204 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2019-11-24 14:18:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 340.70 Mbit/s
95th percentile per-packet one-way delay: 150.902 ms
Loss rate: 2.38%
-- Flow 1:
Average throughput: 340.70 Mbit/s
95th percentile per-packet one-way delay: 150.902 ms
Loss rate: 2.38%

Run 4: Report of Muses_DecisionTreeH0 — Data Link

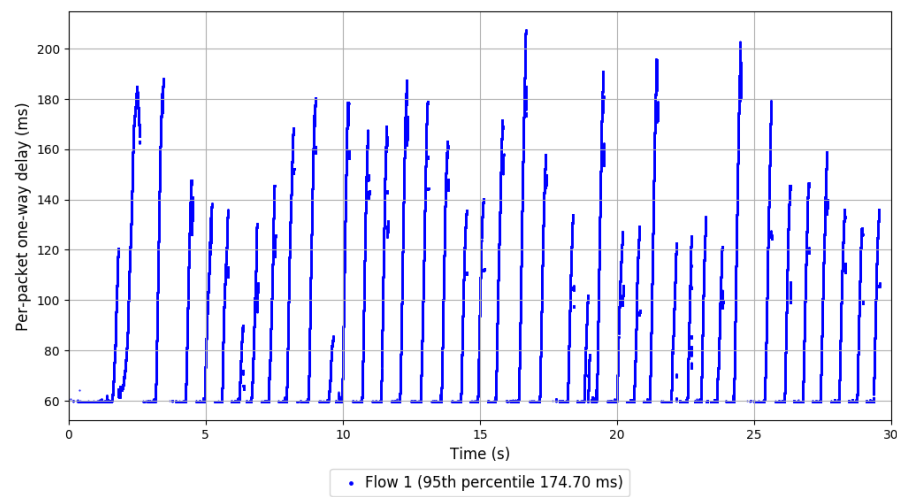
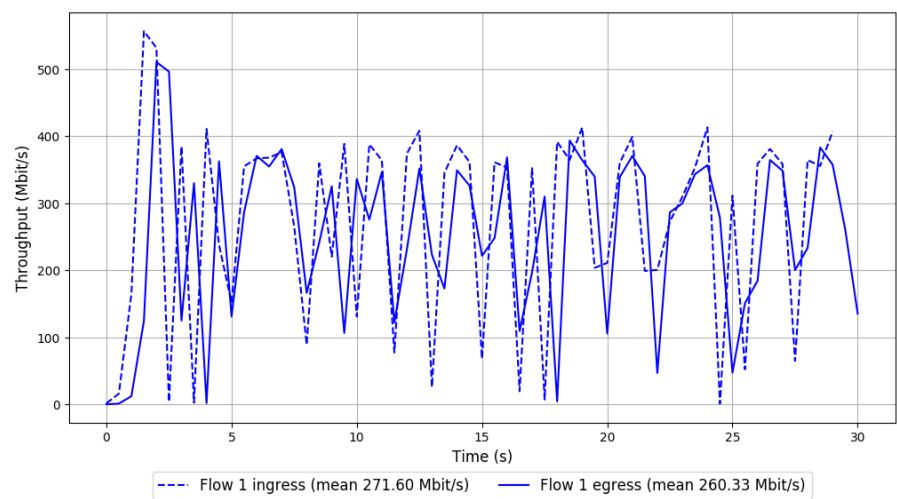


Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-11-24 12:28:33
End at: 2019-11-24 12:29:03
Local clock offset: -0.275 ms
Remote clock offset: -0.093 ms

Below is generated by plot.py at 2019-11-24 14:18:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 260.33 Mbit/s
95th percentile per-packet one-way delay: 174.704 ms
Loss rate: 4.02%
-- Flow 1:
Average throughput: 260.33 Mbit/s
95th percentile per-packet one-way delay: 174.704 ms
Loss rate: 4.02%

Run 5: Report of Muses_DecisionTreeH0 — Data Link

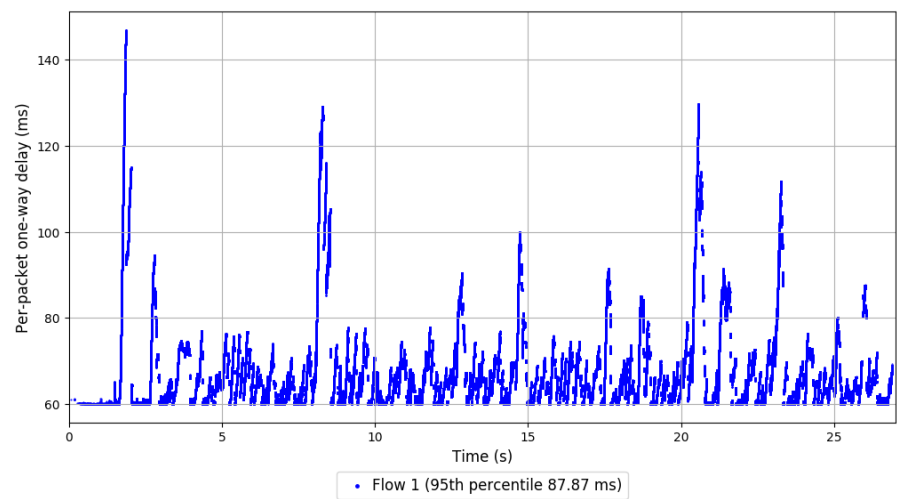
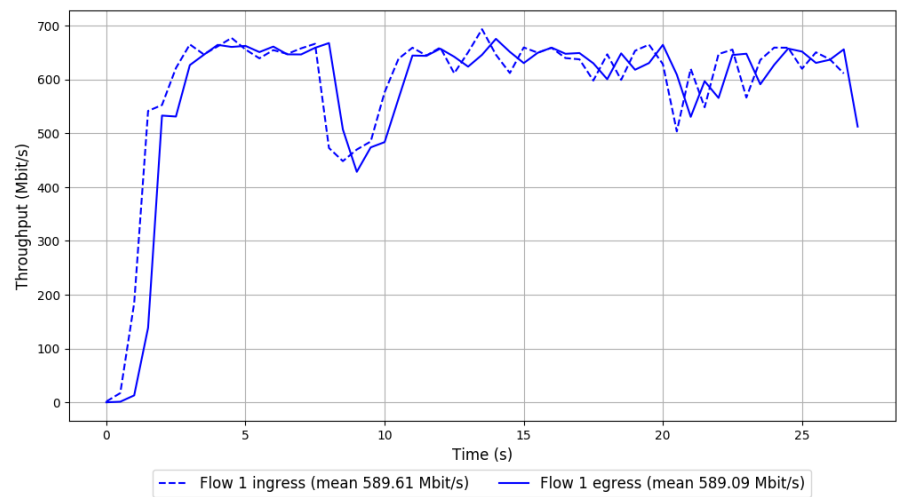


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-11-24 09:57:49
End at: 2019-11-24 09:58:19
Local clock offset: -0.095 ms
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2019-11-24 14:22:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 589.09 Mbit/s
95th percentile per-packet one-way delay: 87.873 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 589.09 Mbit/s
95th percentile per-packet one-way delay: 87.873 ms
Loss rate: 0.54%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link

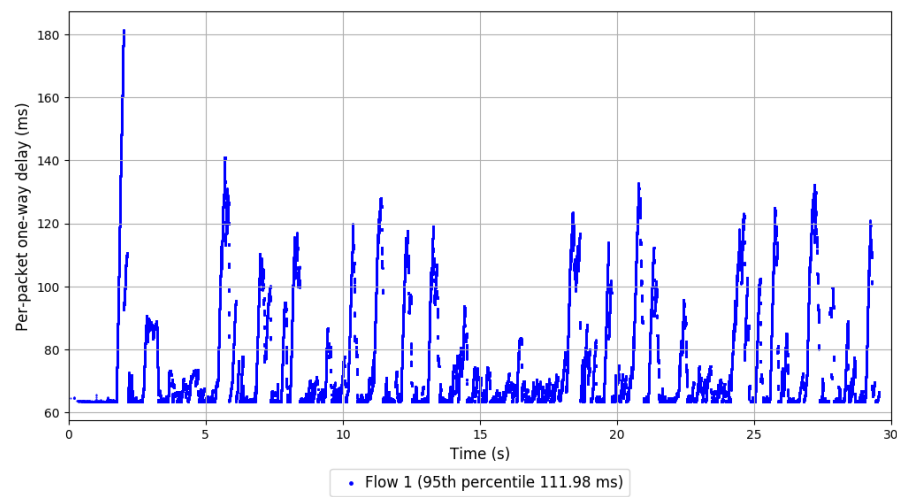
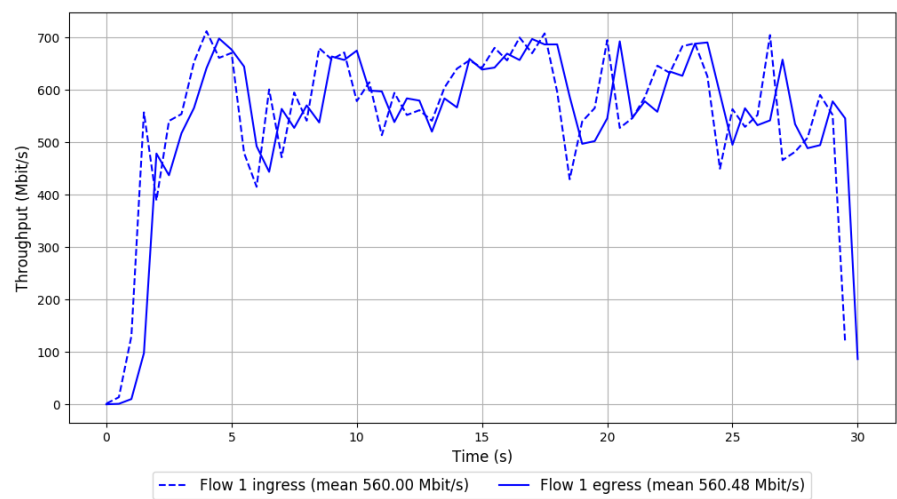


Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-11-24 10:32:12
End at: 2019-11-24 10:32:42
Local clock offset: 0.026 ms
Remote clock offset: -0.165 ms

Below is generated by plot.py at 2019-11-24 14:23:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 560.48 Mbit/s
95th percentile per-packet one-way delay: 111.984 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 560.48 Mbit/s
95th percentile per-packet one-way delay: 111.984 ms
Loss rate: 0.35%

Run 2: Report of Muses_DecisionTreeR0 — Data Link

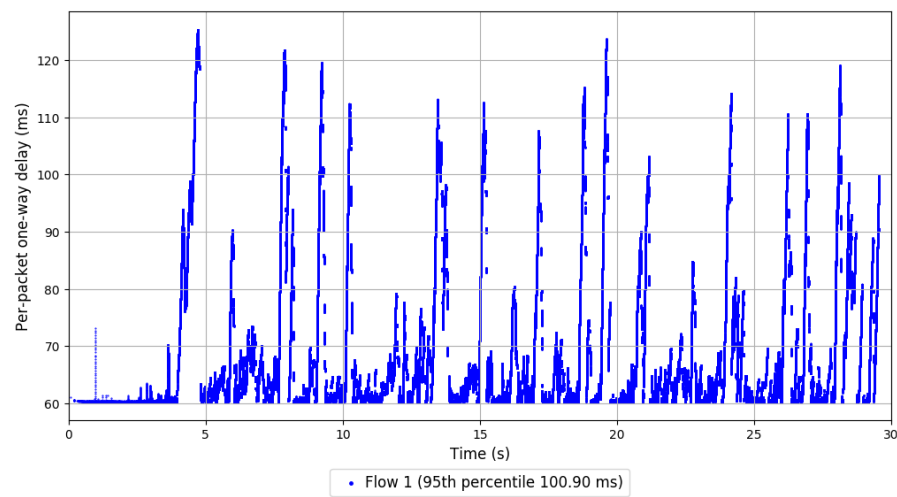
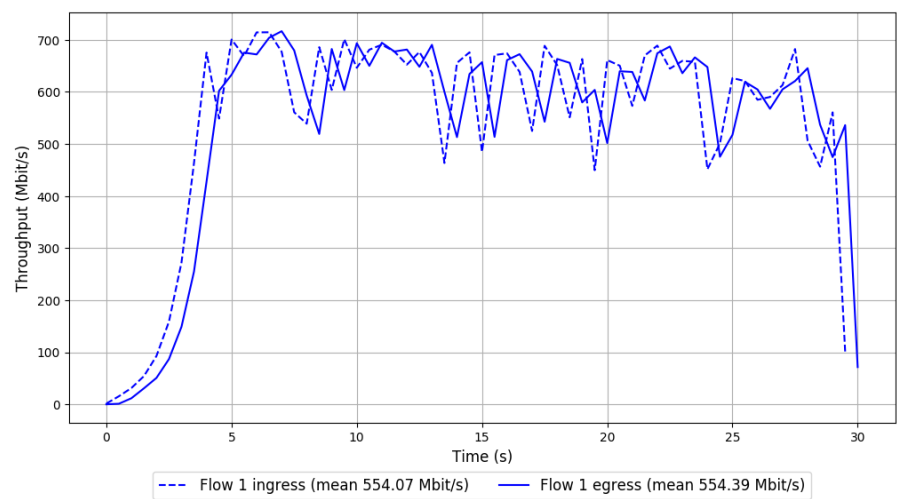


Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-11-24 11:06:46
End at: 2019-11-24 11:07:16
Local clock offset: -0.051 ms
Remote clock offset: -0.159 ms

Below is generated by plot.py at 2019-11-24 14:24:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 554.39 Mbit/s
95th percentile per-packet one-way delay: 100.904 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 554.39 Mbit/s
95th percentile per-packet one-way delay: 100.904 ms
Loss rate: 0.36%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-11-24 11:41:13

End at: 2019-11-24 11:41:43

Local clock offset: -0.164 ms

Remote clock offset: 0.21 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 568.75 Mbit/s

95th percentile per-packet one-way delay: 104.972 ms

Loss rate: 0.44%

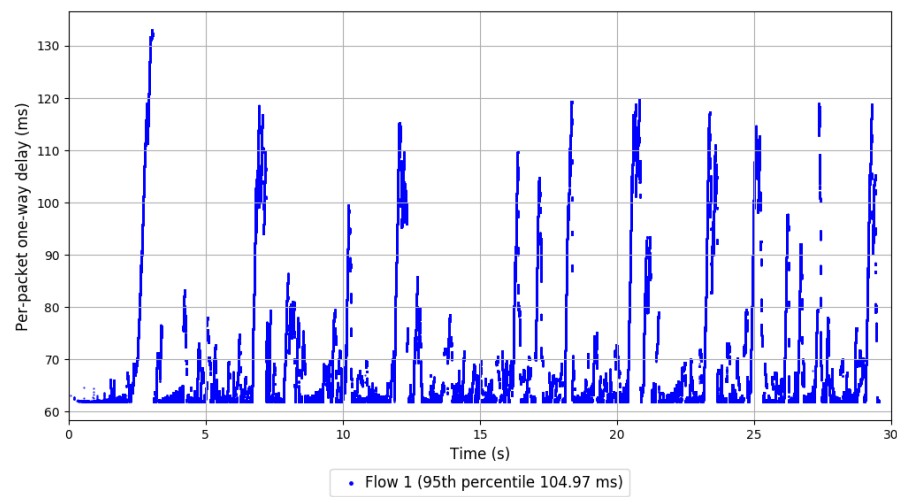
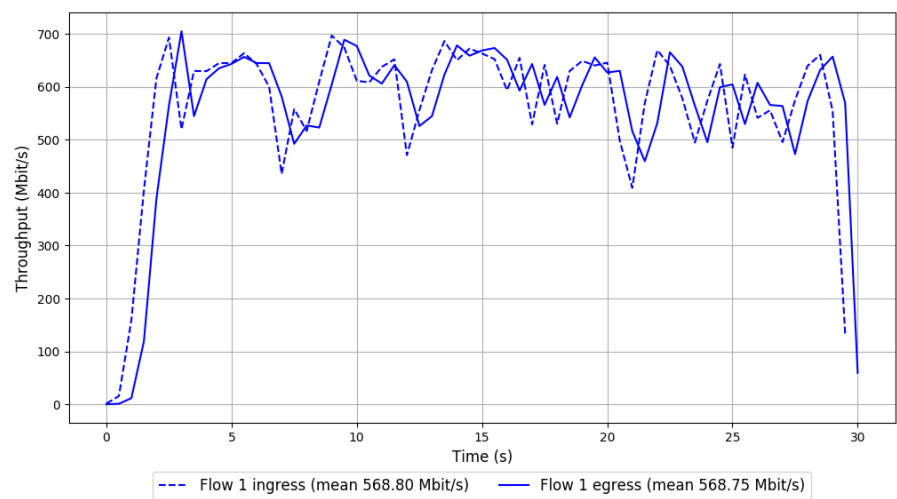
-- Flow 1:

Average throughput: 568.75 Mbit/s

95th percentile per-packet one-way delay: 104.972 ms

Loss rate: 0.44%

Run 4: Report of Muses_DecisionTreeR0 — Data Link

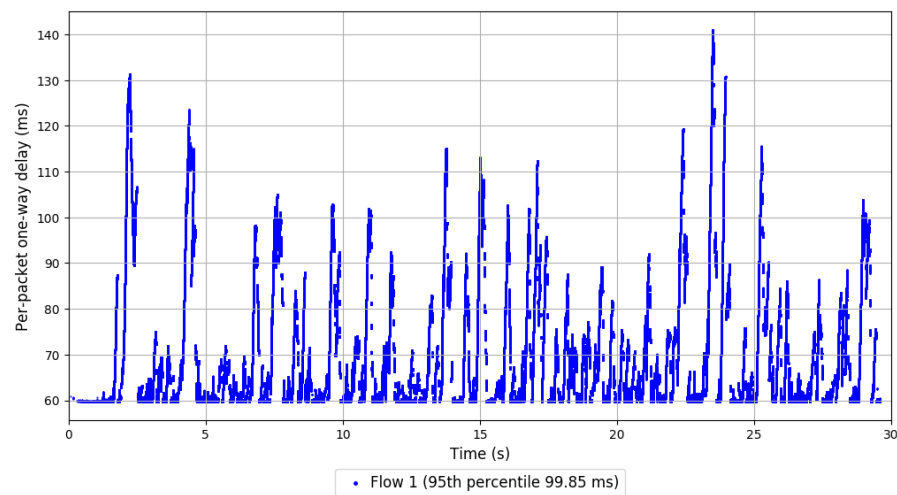
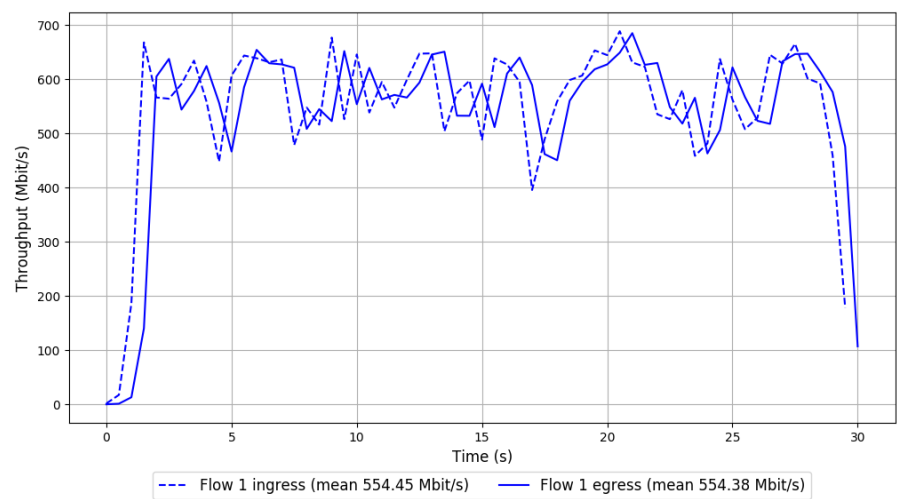


Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-11-24 12:15:12
End at: 2019-11-24 12:15:42
Local clock offset: -0.242 ms
Remote clock offset: -0.088 ms

Below is generated by plot.py at 2019-11-24 14:24:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 554.38 Mbit/s
95th percentile per-packet one-way delay: 99.850 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 554.38 Mbit/s
95th percentile per-packet one-way delay: 99.850 ms
Loss rate: 0.43%

Run 5: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-11-24 10:16:49

End at: 2019-11-24 10:17:19

Local clock offset: -0.042 ms

Remote clock offset: -0.061 ms

Below is generated by plot.py at 2019-11-24 14:26:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 347.06 Mbit/s

95th percentile per-packet one-way delay: 126.598 ms

Loss rate: 0.80%

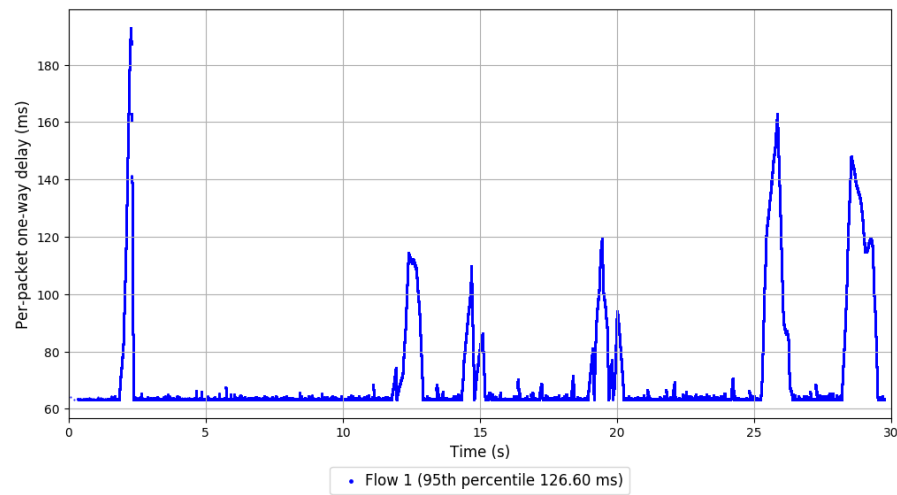
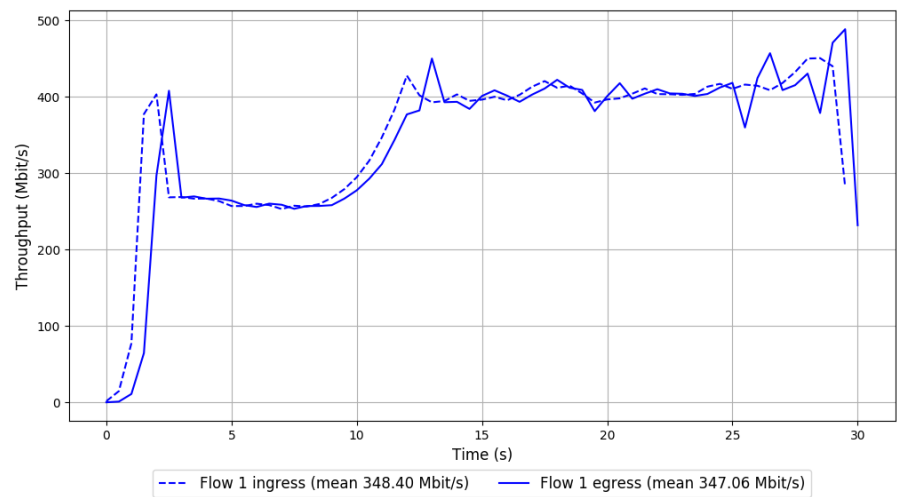
-- Flow 1:

Average throughput: 347.06 Mbit/s

95th percentile per-packet one-way delay: 126.598 ms

Loss rate: 0.80%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-11-24 10:51:24

End at: 2019-11-24 10:51:54

Local clock offset: -0.005 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2019-11-24 14:28:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 340.01 Mbit/s

95th percentile per-packet one-way delay: 131.031 ms

Loss rate: 0.66%

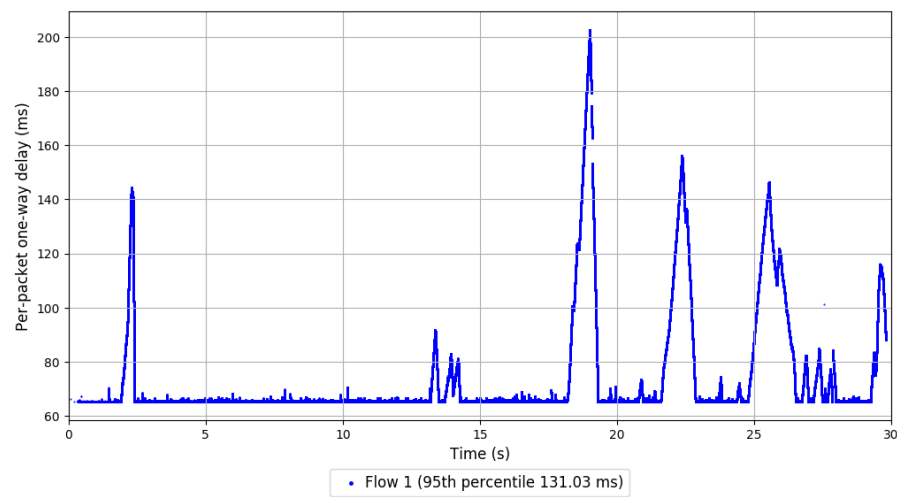
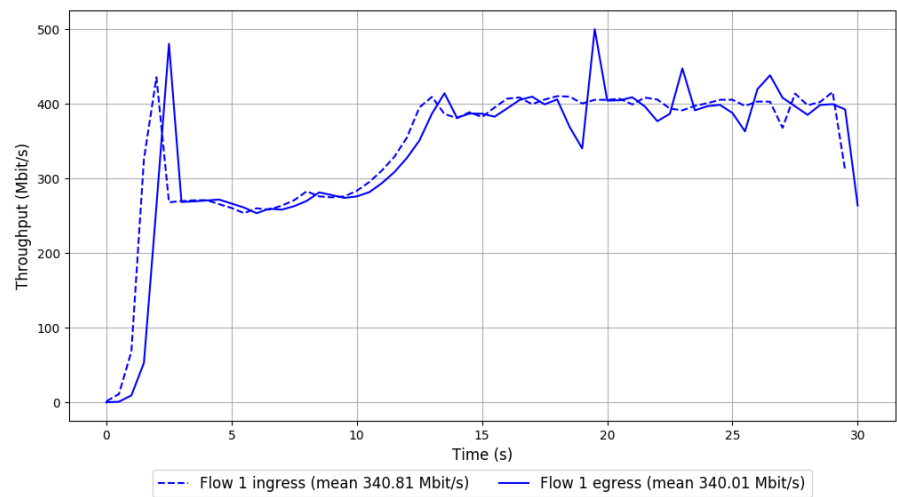
-- Flow 1:

Average throughput: 340.01 Mbit/s

95th percentile per-packet one-way delay: 131.031 ms

Loss rate: 0.66%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-11-24 11:25:54

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

Local clock offset: -0.077 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2019-11-24 14:30:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.36 Mbit/s

95th percentile per-packet one-way delay: 155.335 ms

Loss rate: 0.83%

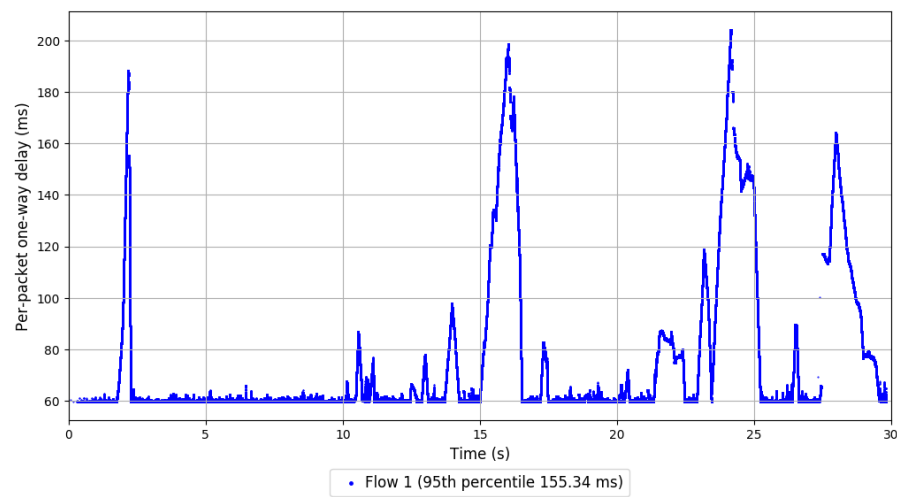
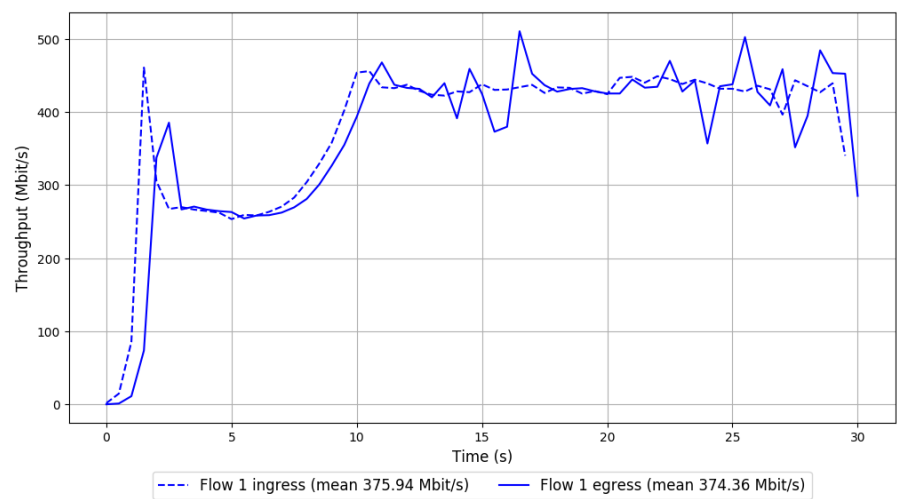
-- Flow 1:

Average throughput: 374.36 Mbit/s

95th percentile per-packet one-way delay: 155.335 ms

Loss rate: 0.83%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-11-24 11:59:49

End at: 2019-11-24 12:00:19

Local clock offset: -0.224 ms

Remote clock offset: -0.112 ms

Below is generated by plot.py at 2019-11-24 14:34:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 357.74 Mbit/s

95th percentile per-packet one-way delay: 164.136 ms

Loss rate: 0.93%

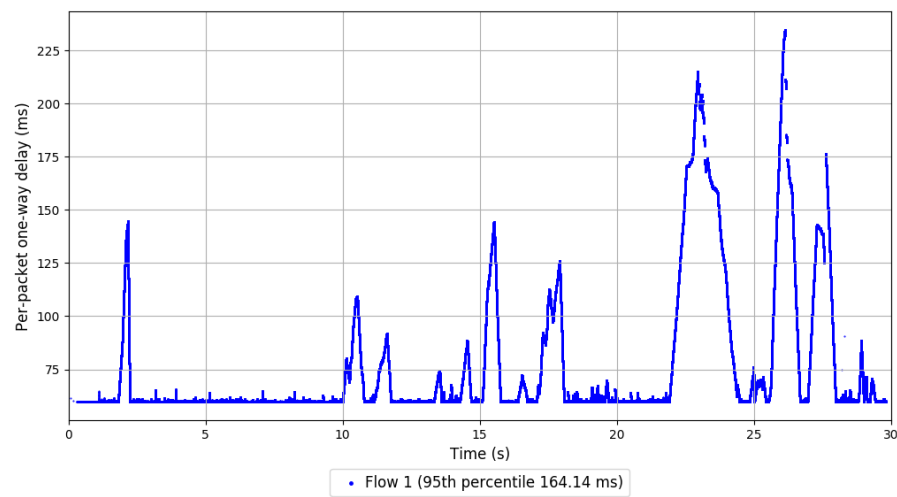
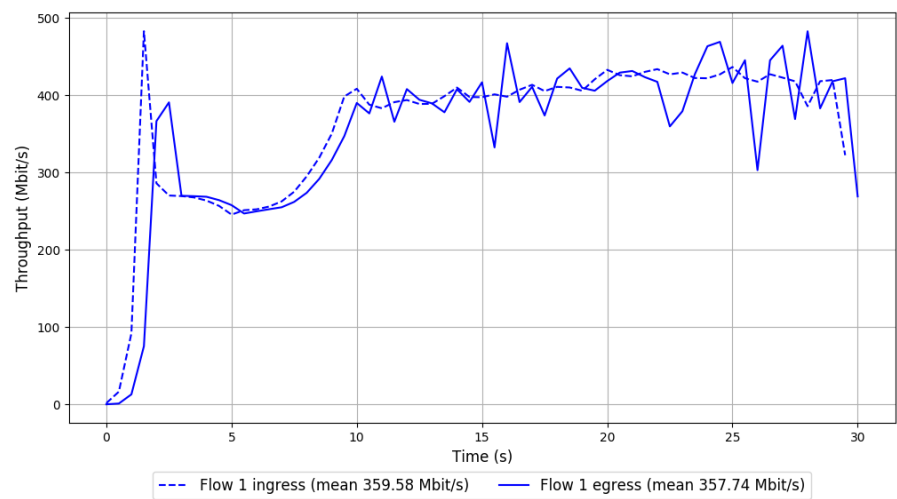
-- Flow 1:

Average throughput: 357.74 Mbit/s

95th percentile per-packet one-way delay: 164.136 ms

Loss rate: 0.93%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-11-24 12:34:07

End at: 2019-11-24 12:34:37

Local clock offset: -0.29 ms

Remote clock offset: -0.122 ms

Below is generated by plot.py at 2019-11-24 14:36:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 385.60 Mbit/s

95th percentile per-packet one-way delay: 188.307 ms

Loss rate: 4.08%

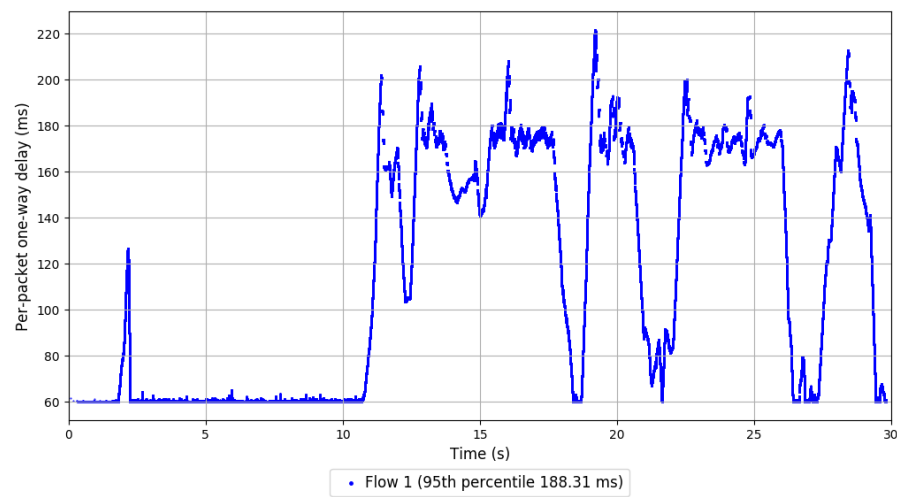
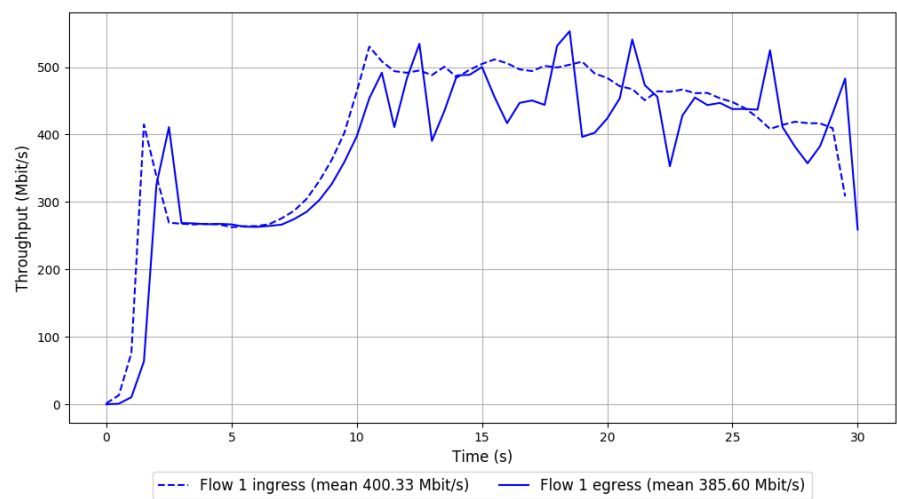
-- Flow 1:

Average throughput: 385.60 Mbit/s

95th percentile per-packet one-way delay: 188.307 ms

Loss rate: 4.08%

Run 5: Report of PCC-Allegro — Data Link

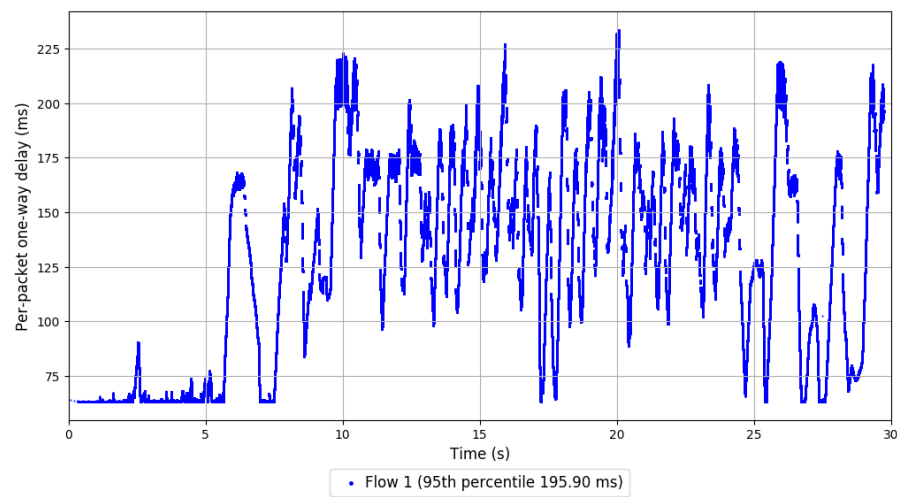
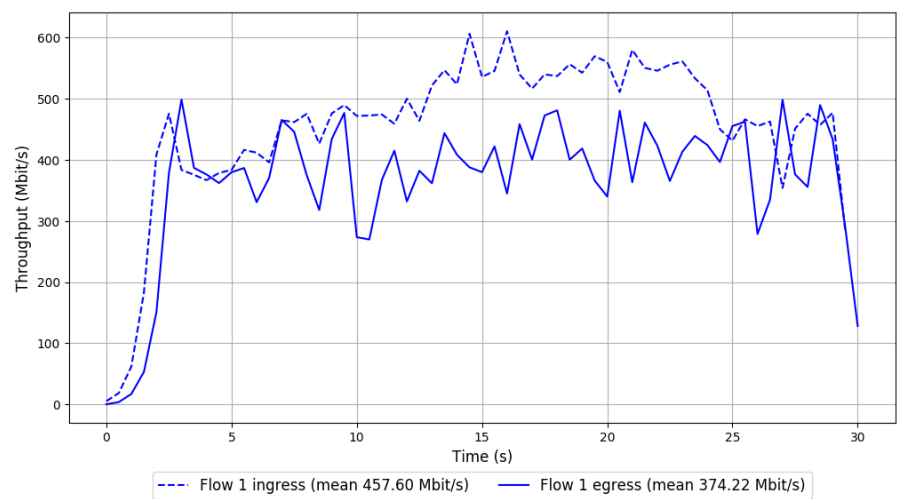


Run 1: Statistics of PCC-Expr

Start at: 2019-11-24 10:09:30
End at: 2019-11-24 10:10:00
Local clock offset: -0.104 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2019-11-24 14:37:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 374.22 Mbit/s
95th percentile per-packet one-way delay: 195.897 ms
Loss rate: 18.57%
-- Flow 1:
Average throughput: 374.22 Mbit/s
95th percentile per-packet one-way delay: 195.897 ms
Loss rate: 18.57%

Run 1: Report of PCC-Expr — Data Link

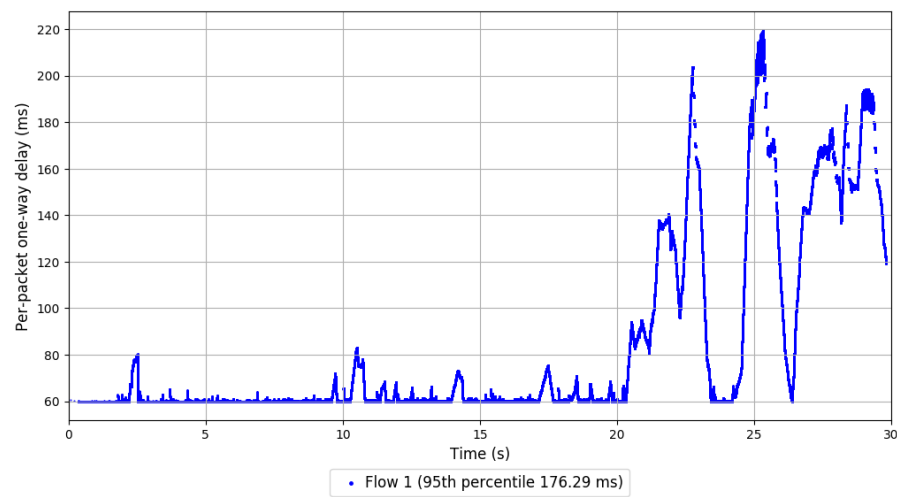
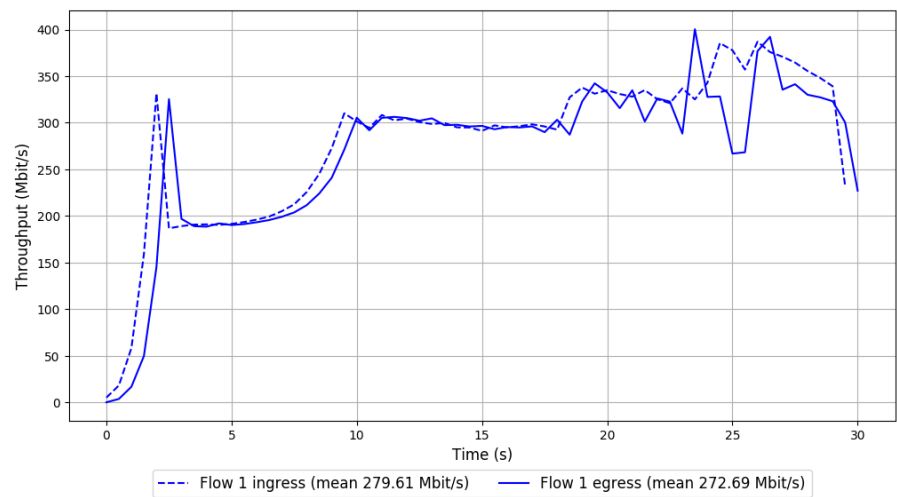


Run 2: Statistics of PCC-Expr

Start at: 2019-11-24 10:44:13
End at: 2019-11-24 10:44:43
Local clock offset: 0.014 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2019-11-24 14:37:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 272.69 Mbit/s
95th percentile per-packet one-way delay: 176.290 ms
Loss rate: 2.87%
-- Flow 1:
Average throughput: 272.69 Mbit/s
95th percentile per-packet one-way delay: 176.290 ms
Loss rate: 2.87%

Run 2: Report of PCC-Expr — Data Link

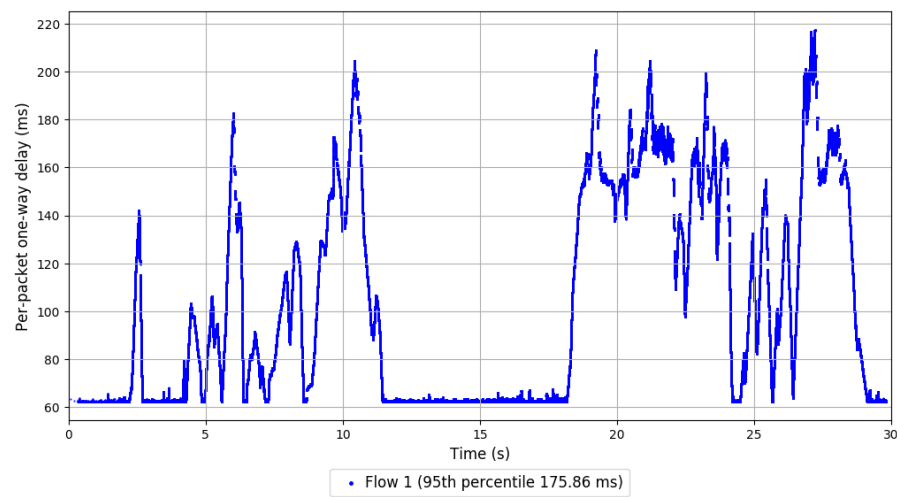
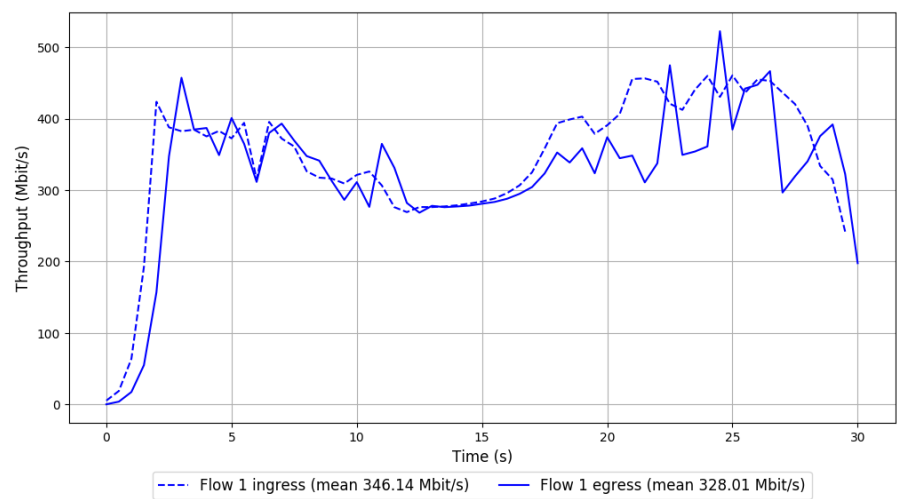


Run 3: Statistics of PCC-Expr

Start at: 2019-11-24 11:18:43
End at: 2019-11-24 11:19:13
Local clock offset: -0.064 ms
Remote clock offset: -0.198 ms

Below is generated by plot.py at 2019-11-24 14:37:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 328.01 Mbit/s
95th percentile per-packet one-way delay: 175.862 ms
Loss rate: 5.64%
-- Flow 1:
Average throughput: 328.01 Mbit/s
95th percentile per-packet one-way delay: 175.862 ms
Loss rate: 5.64%

Run 3: Report of PCC-Expr — Data Link

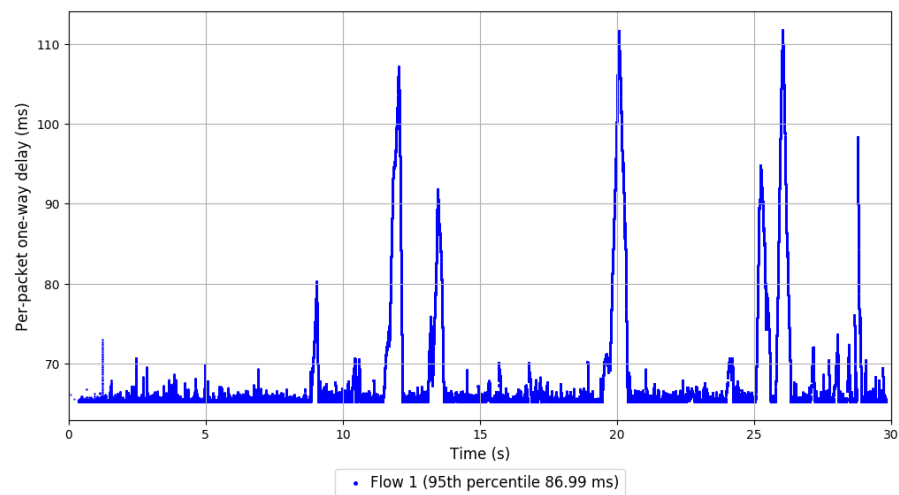
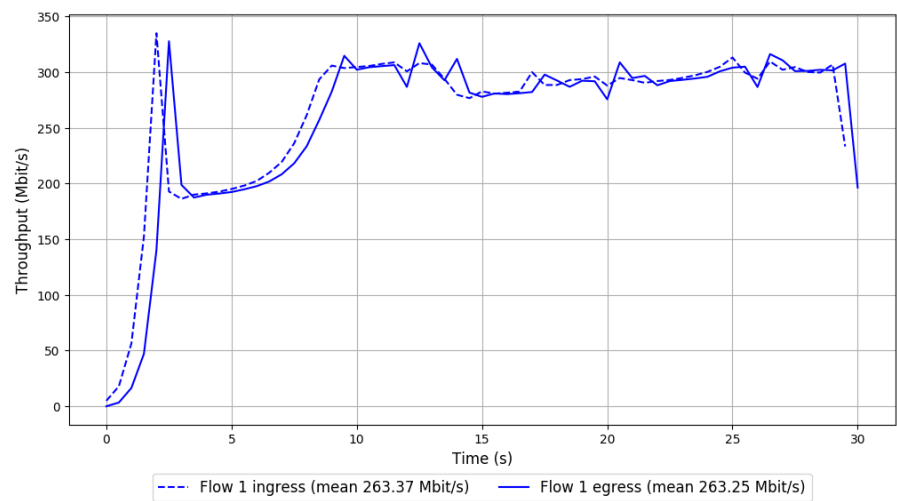


Run 4: Statistics of PCC-Expr

Start at: 2019-11-24 11:52:40
End at: 2019-11-24 11:53:10
Local clock offset: -0.178 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2019-11-24 14:37:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 263.25 Mbit/s
95th percentile per-packet one-way delay: 86.993 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 263.25 Mbit/s
95th percentile per-packet one-way delay: 86.993 ms
Loss rate: 0.48%

Run 4: Report of PCC-Expr — Data Link

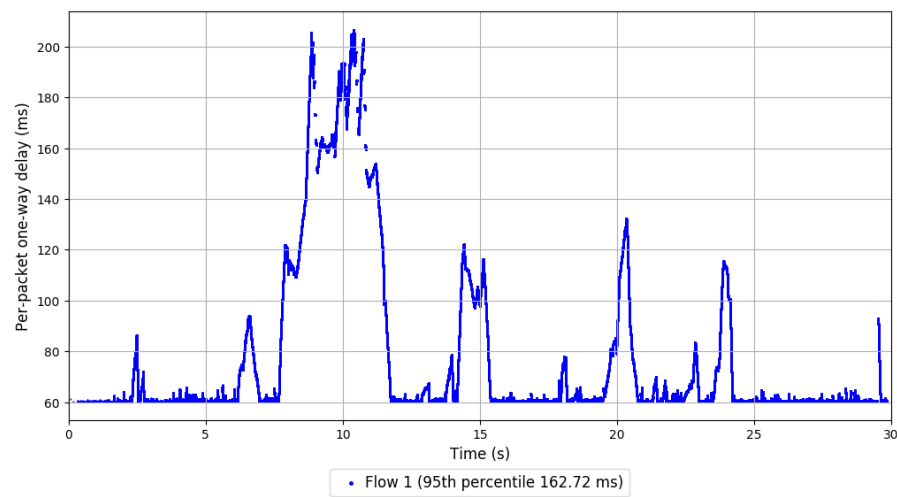
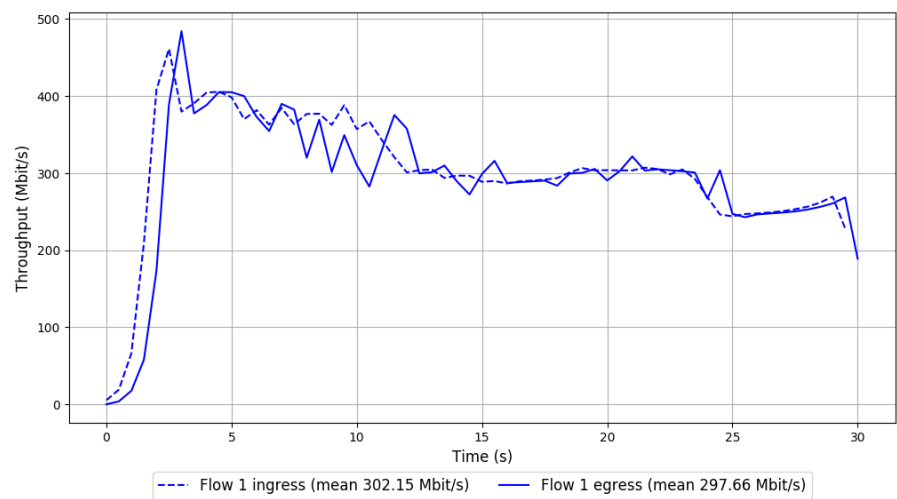


Run 5: Statistics of PCC-Expr

Start at: 2019-11-24 12:27:01
End at: 2019-11-24 12:27:31
Local clock offset: -0.277 ms
Remote clock offset: -0.141 ms

Below is generated by plot.py at 2019-11-24 14:38:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 297.66 Mbit/s
95th percentile per-packet one-way delay: 162.725 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 297.66 Mbit/s
95th percentile per-packet one-way delay: 162.725 ms
Loss rate: 1.89%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

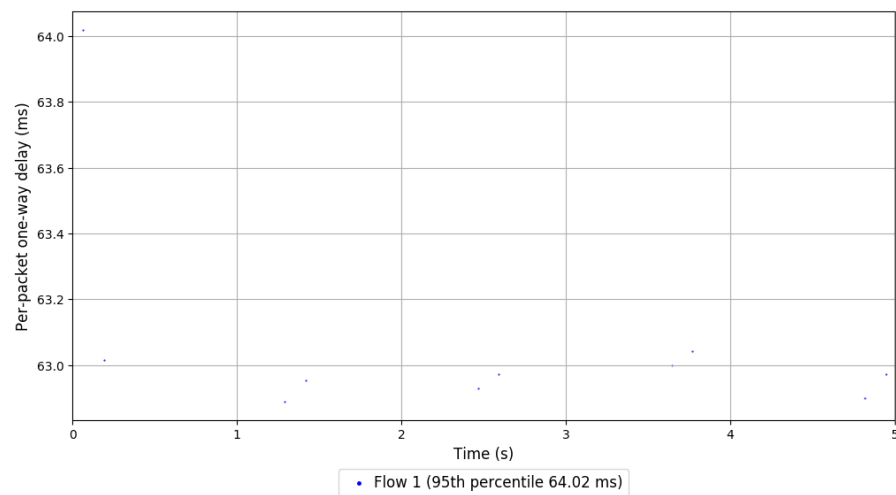
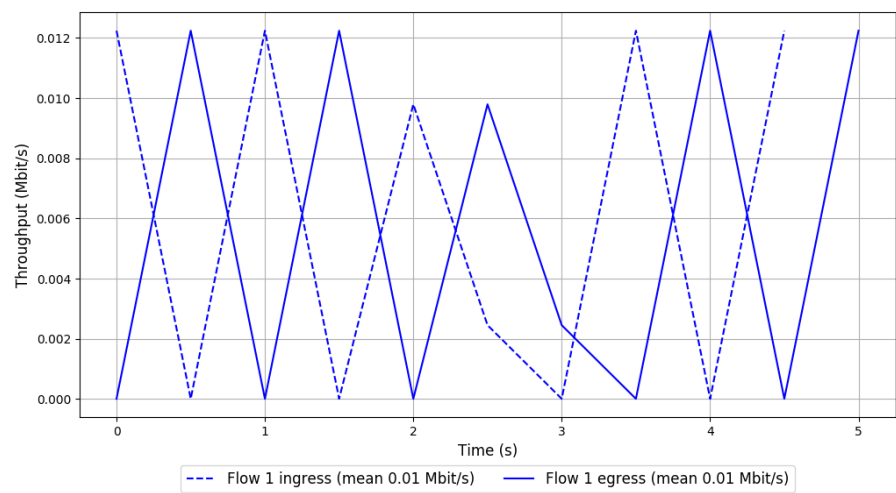
Start at: 2019-11-24 10:28:30

End at: 2019-11-24 10:29:00

Local clock offset: 0.021 ms

Remote clock offset: -0.087 ms

Run 1: Report of QUIC Cubic — Data Link

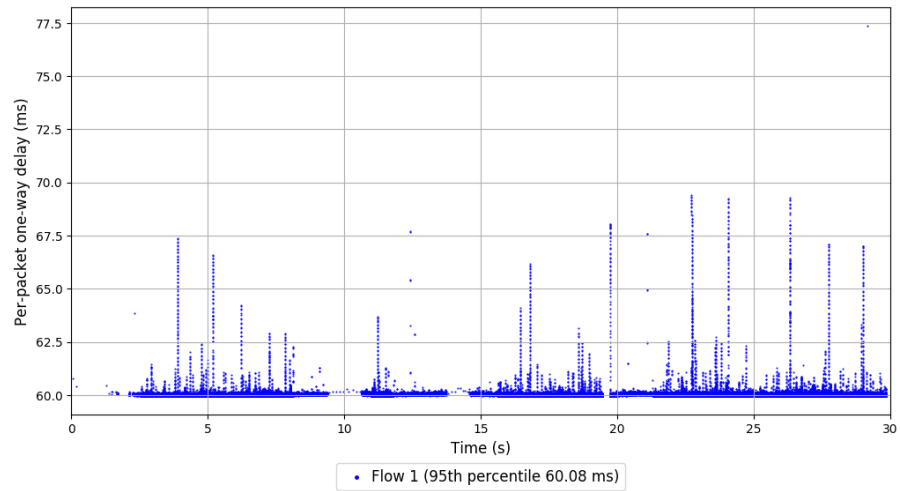
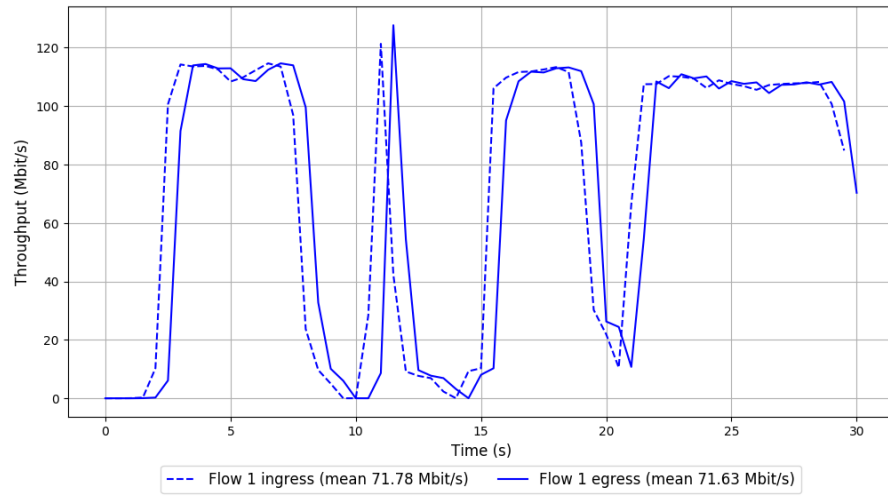


Run 2: Statistics of QUIC Cubic

Start at: 2019-11-24 11:02:59
End at: 2019-11-24 11:03:29
Local clock offset: -0.045 ms
Remote clock offset: -0.119 ms

Below is generated by plot.py at 2019-11-24 14:38:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 71.63 Mbit/s
95th percentile per-packet one-way delay: 60.076 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 71.63 Mbit/s
95th percentile per-packet one-way delay: 60.076 ms
Loss rate: 0.62%

Run 2: Report of QUIC Cubic — Data Link

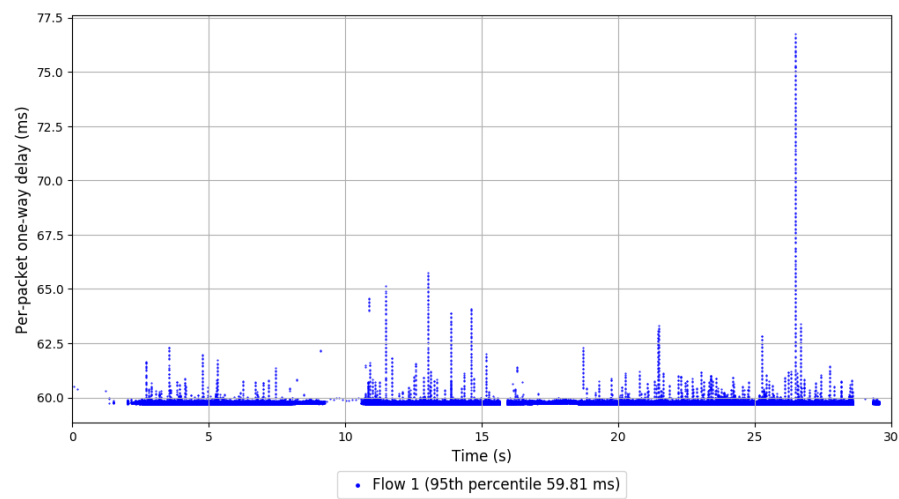
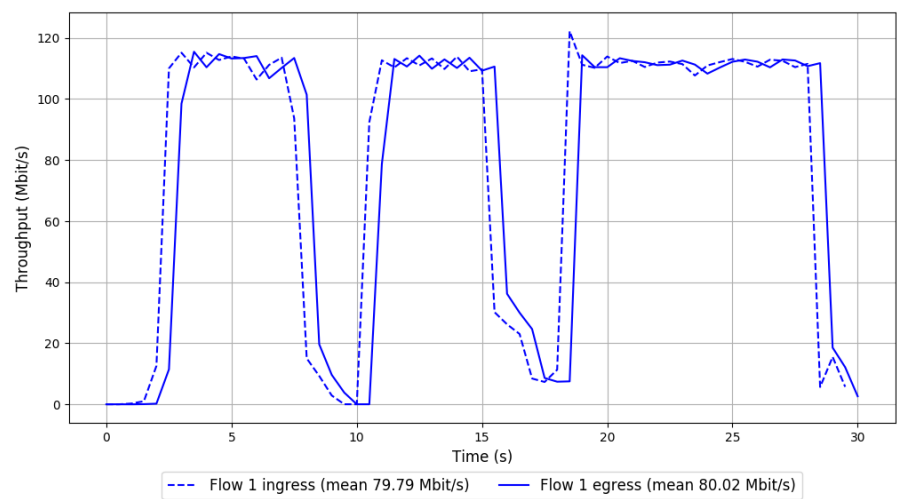


Run 3: Statistics of QUIC Cubic

Start at: 2019-11-24 11:37:27
End at: 2019-11-24 11:37:57
Local clock offset: -0.208 ms
Remote clock offset: -0.122 ms

Below is generated by plot.py at 2019-11-24 14:38:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 80.02 Mbit/s
95th percentile per-packet one-way delay: 59.806 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 80.02 Mbit/s
95th percentile per-packet one-way delay: 59.806 ms
Loss rate: 0.14%

Run 3: Report of QUIC Cubic — Data Link

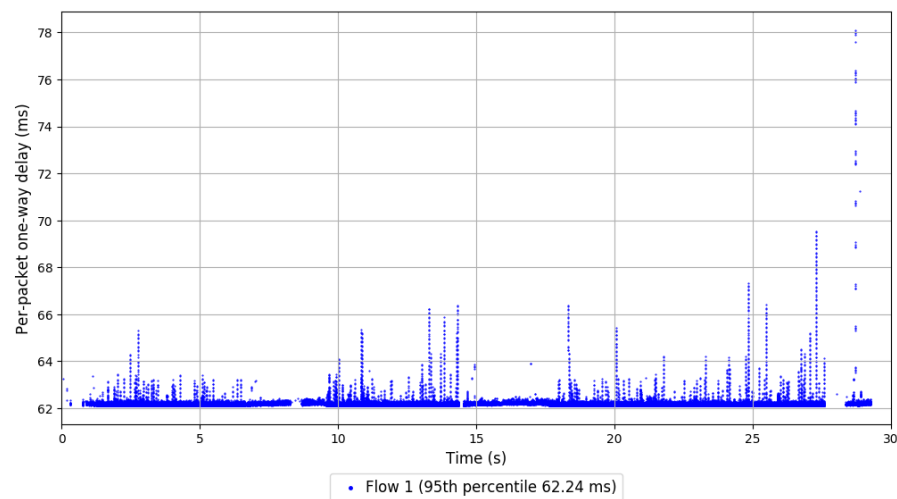
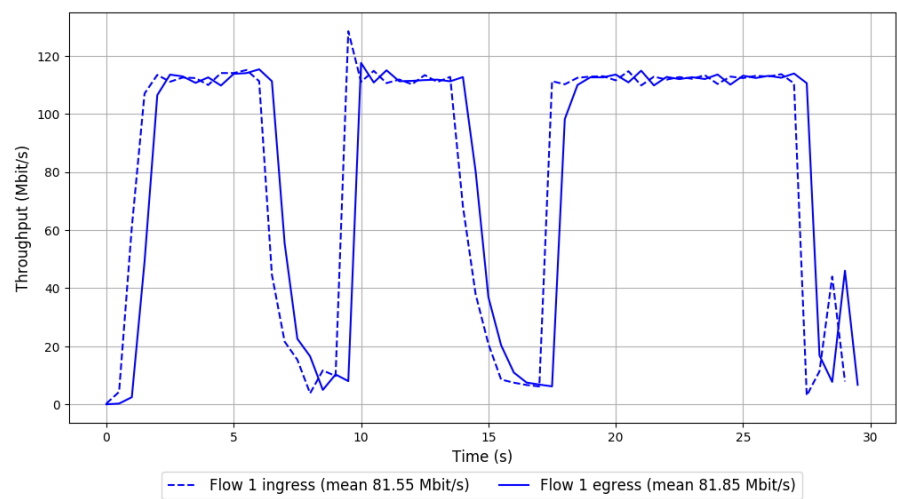


Run 4: Statistics of QUIC Cubic

Start at: 2019-11-24 12:11:27
End at: 2019-11-24 12:11:57
Local clock offset: -0.226 ms
Remote clock offset: -0.106 ms

Below is generated by plot.py at 2019-11-24 14:38:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 81.85 Mbit/s
95th percentile per-packet one-way delay: 62.236 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 81.85 Mbit/s
95th percentile per-packet one-way delay: 62.236 ms
Loss rate: 0.06%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-11-24 12:45:36

End at: 2019-11-24 12:46:06

Local clock offset: -0.324 ms

Remote clock offset: 0.085 ms

Below is generated by plot.py at 2019-11-24 14:38:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.19 Mbit/s

95th percentile per-packet one-way delay: 59.915 ms

Loss rate: 0.30%

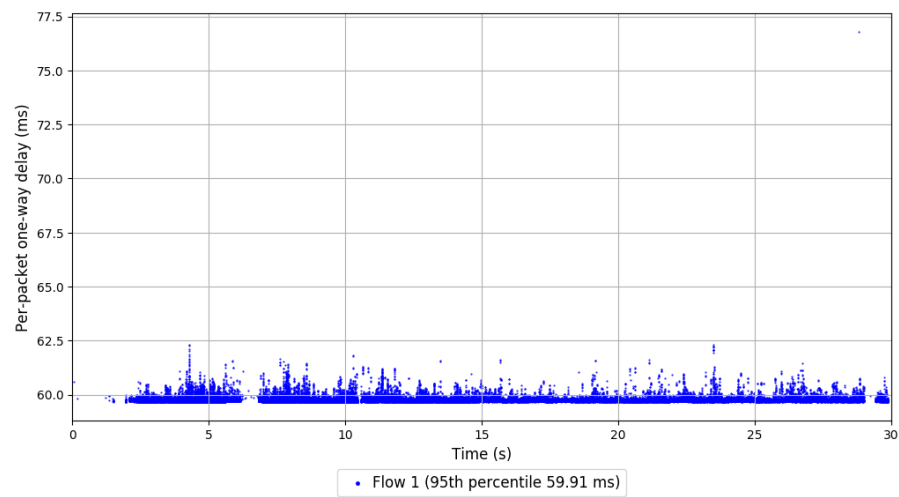
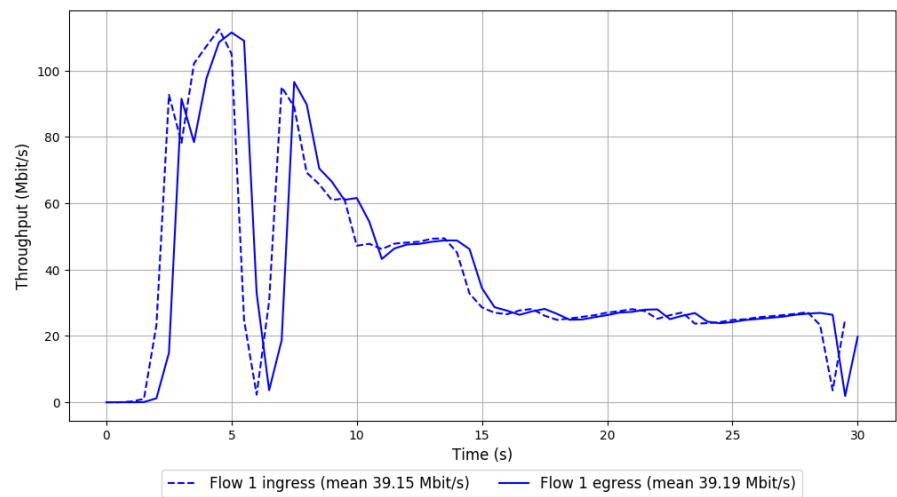
-- Flow 1:

Average throughput: 39.19 Mbit/s

95th percentile per-packet one-way delay: 59.915 ms

Loss rate: 0.30%

Run 5: Report of QUIC Cubic — Data Link

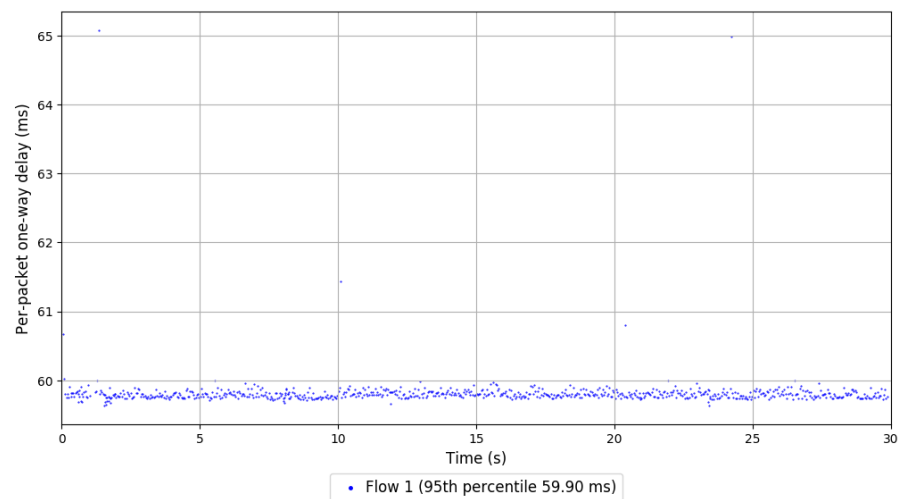
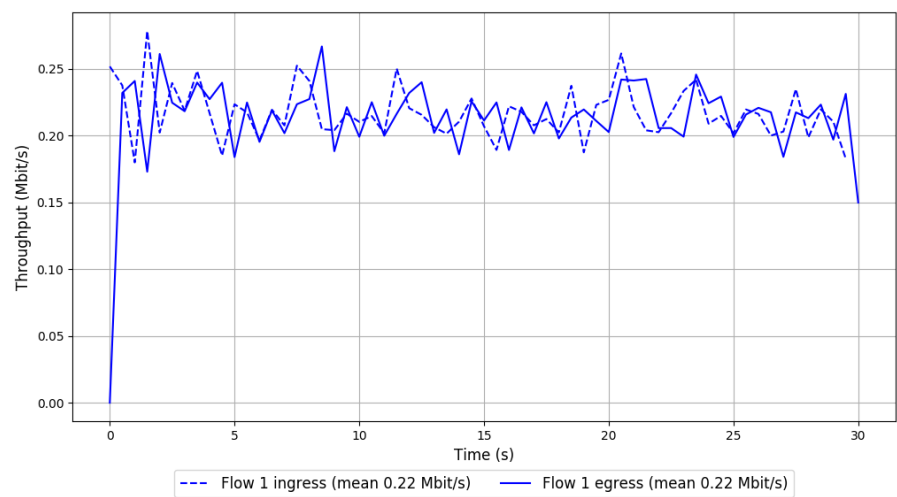


Run 1: Statistics of SCReAM

Start at: 2019-11-24 10:18:18
End at: 2019-11-24 10:18:48
Local clock offset: -0.067 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2019-11-24 14:38:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 59.899 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 59.899 ms
Loss rate: 0.38%

Run 1: Report of SReAM — Data Link

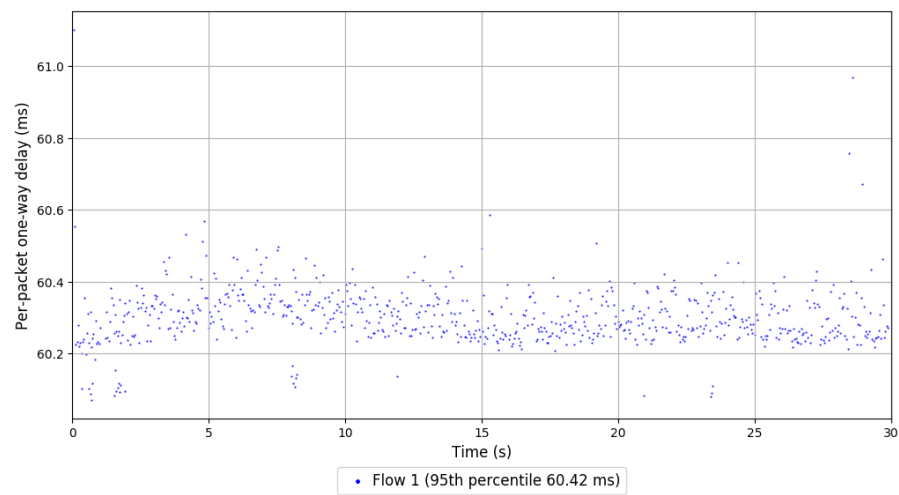
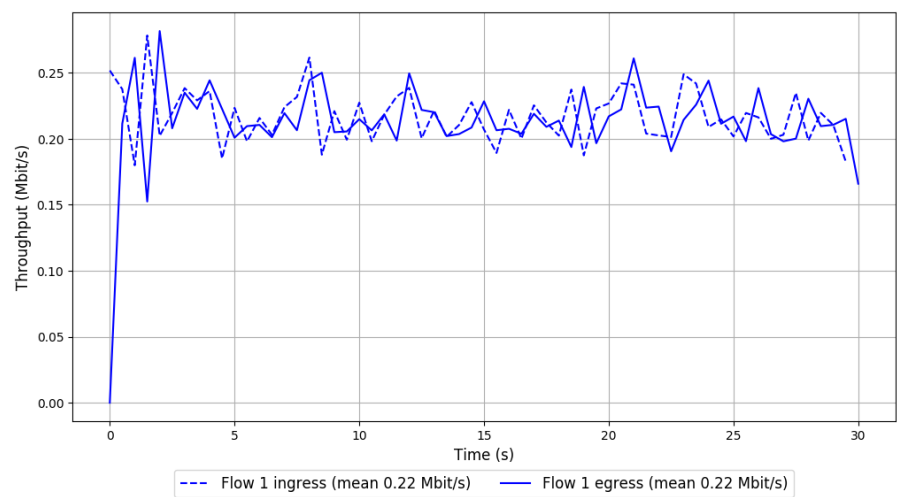


Run 2: Statistics of SCReAM

Start at: 2019-11-24 10:52:53
End at: 2019-11-24 10:53:23
Local clock offset: -0.002 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2019-11-24 14:38:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.422 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.422 ms
Loss rate: 0.38%

Run 2: Report of SReAM — Data Link

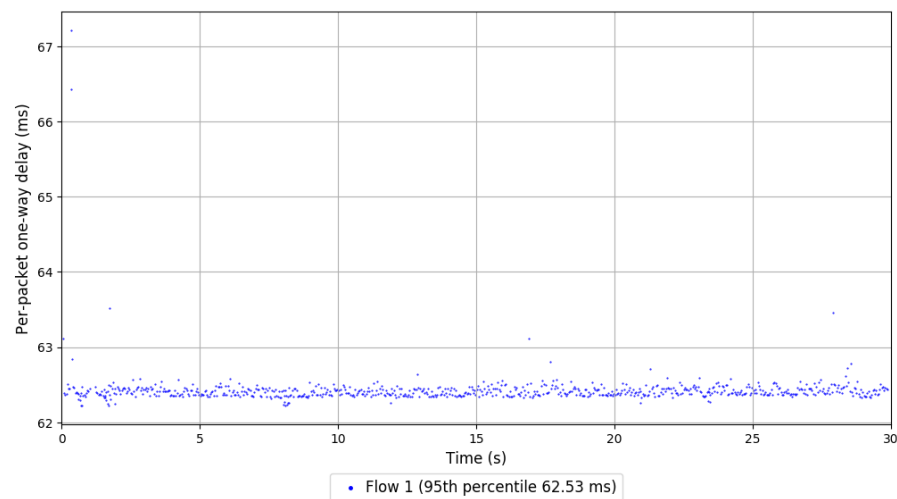
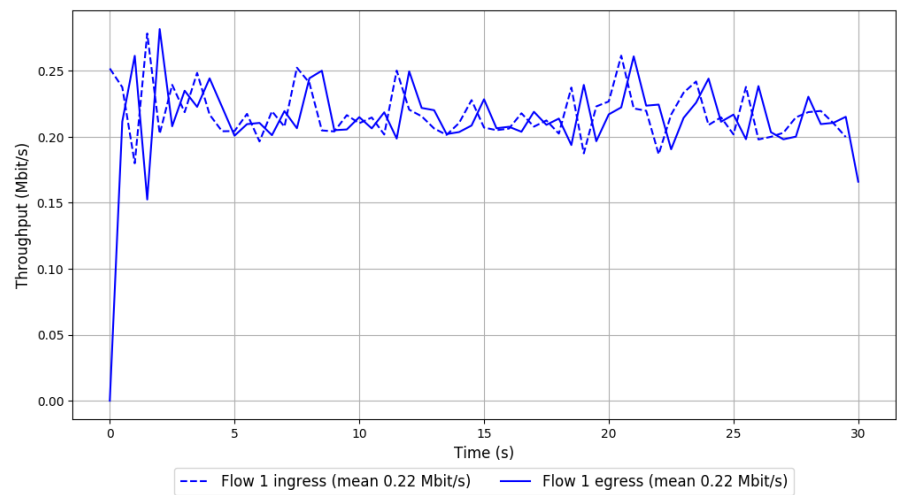


Run 3: Statistics of SCReAM

Start at: 2019-11-24 11:27:26
End at: 2019-11-24 11:27:56
Local clock offset: -0.094 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2019-11-24 14:38:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.528 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.528 ms
Loss rate: 0.51%

Run 3: Report of SReAM — Data Link

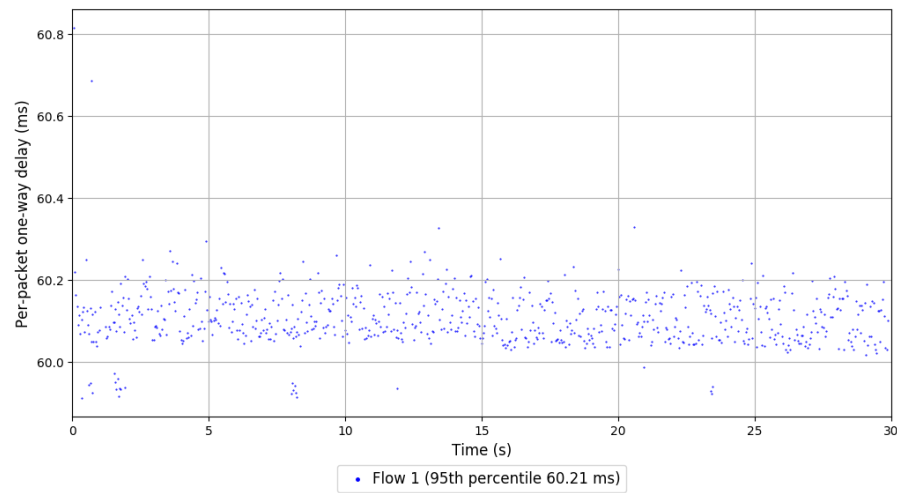
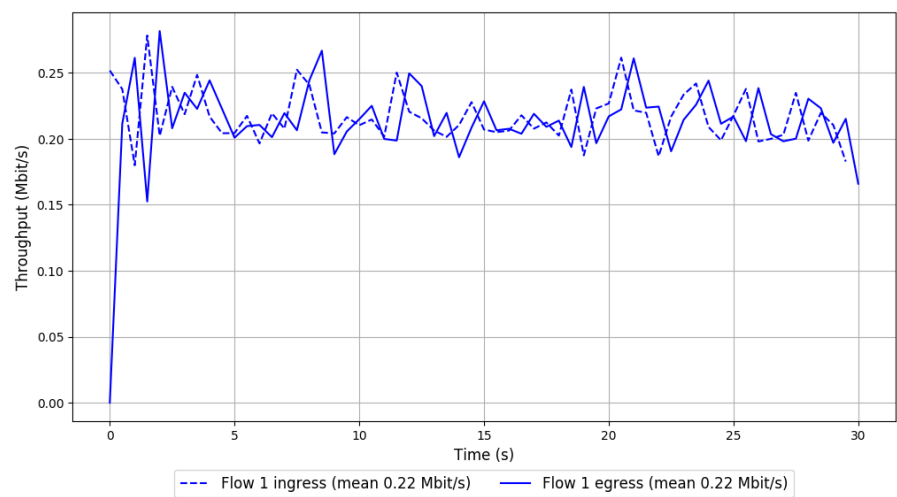


Run 4: Statistics of SCReAM

Start at: 2019-11-24 12:01:19
End at: 2019-11-24 12:01:49
Local clock offset: -0.225 ms
Remote clock offset: -0.058 ms

Below is generated by plot.py at 2019-11-24 14:38:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.208 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.208 ms
Loss rate: 0.38%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-11-24 12:35:39

End at: 2019-11-24 12:36:09

Local clock offset: -0.29 ms

Remote clock offset: -0.13 ms

Below is generated by plot.py at 2019-11-24 14:38:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.299 ms

Loss rate: 0.38%

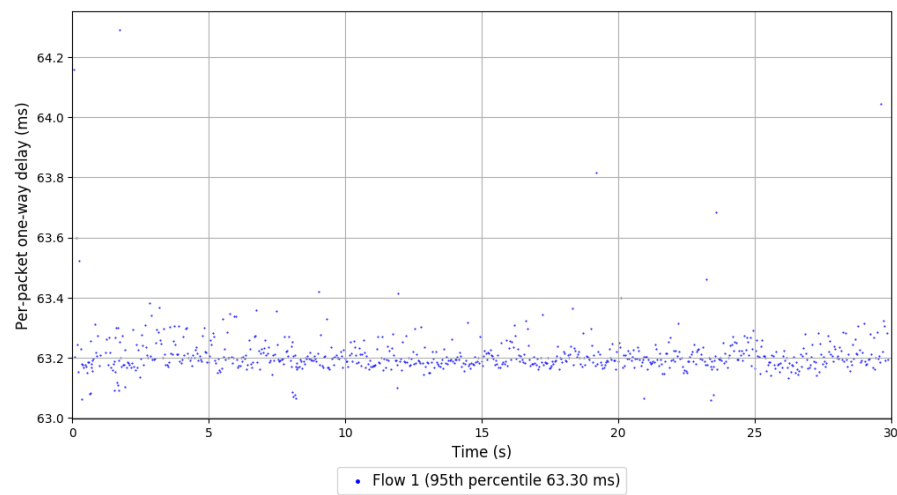
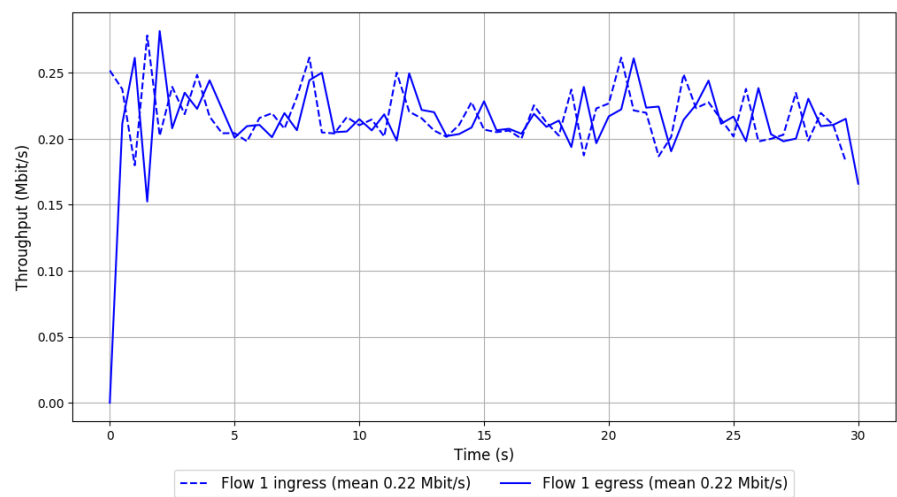
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.299 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link

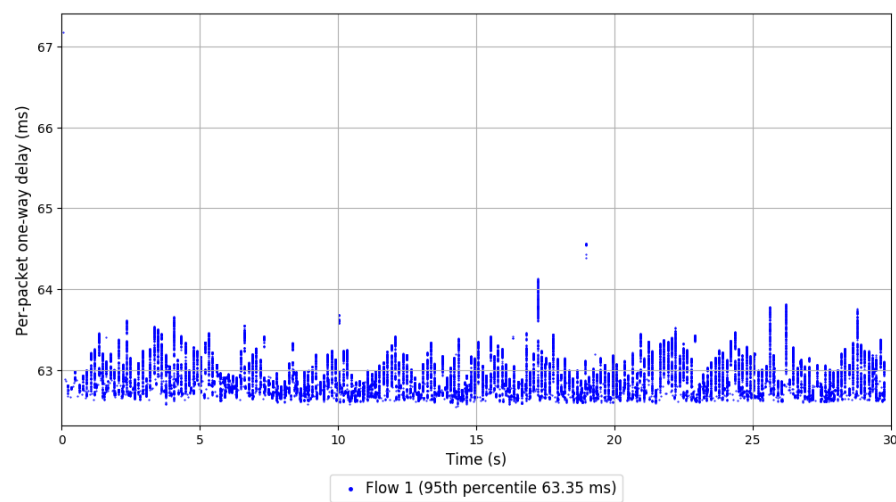
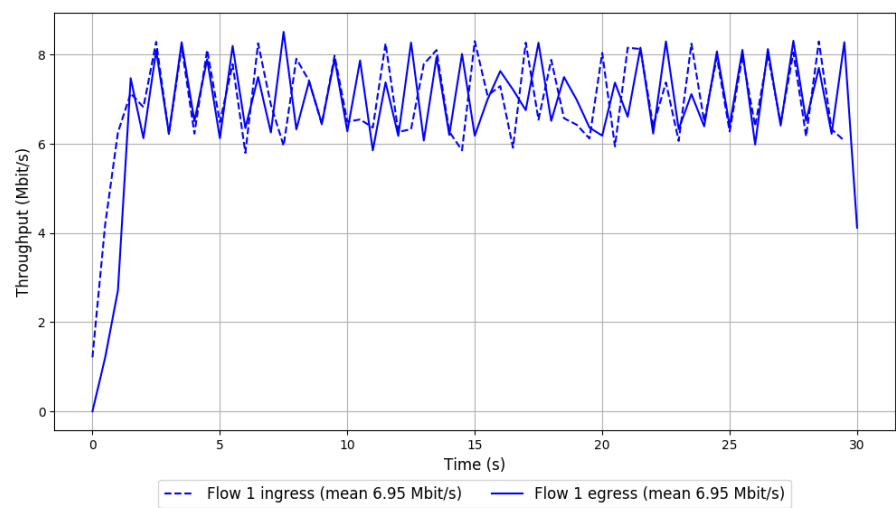


Run 1: Statistics of Sprout

Start at: 2019-11-24 10:14:00
End at: 2019-11-24 10:14:30
Local clock offset: -0.063 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2019-11-24 14:38:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.95 Mbit/s
95th percentile per-packet one-way delay: 63.353 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 6.95 Mbit/s
95th percentile per-packet one-way delay: 63.353 ms
Loss rate: 0.50%

Run 1: Report of Sprout — Data Link

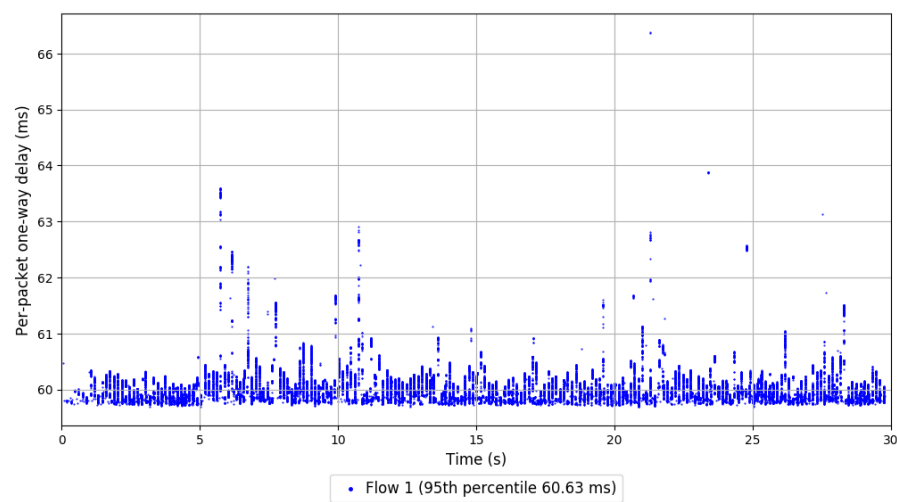
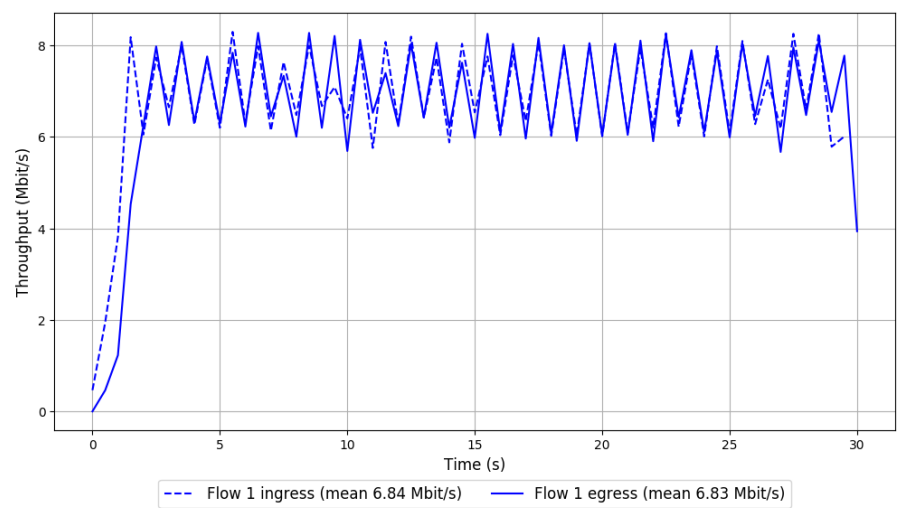


Run 2: Statistics of Sprout

Start at: 2019-11-24 10:48:35
End at: 2019-11-24 10:49:05
Local clock offset: -0.016 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2019-11-24 14:38:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.83 Mbit/s
95th percentile per-packet one-way delay: 60.635 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 6.83 Mbit/s
95th percentile per-packet one-way delay: 60.635 ms
Loss rate: 0.51%

Run 2: Report of Sprout — Data Link

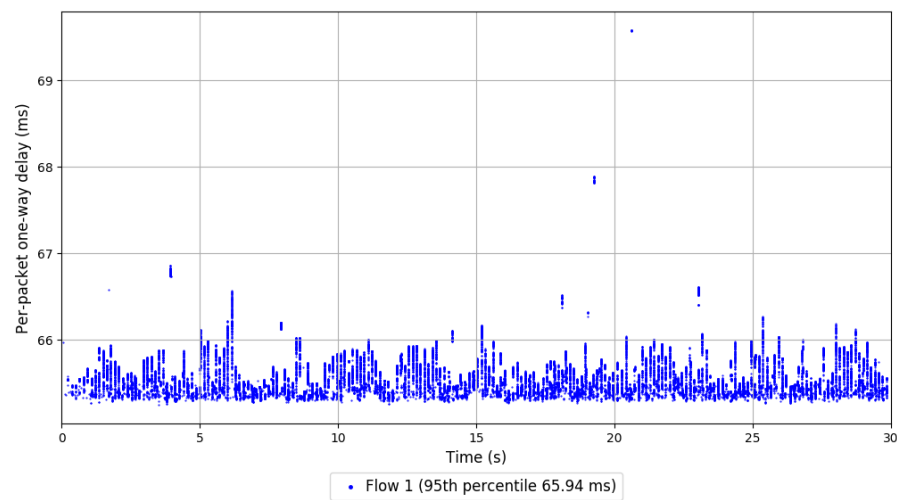
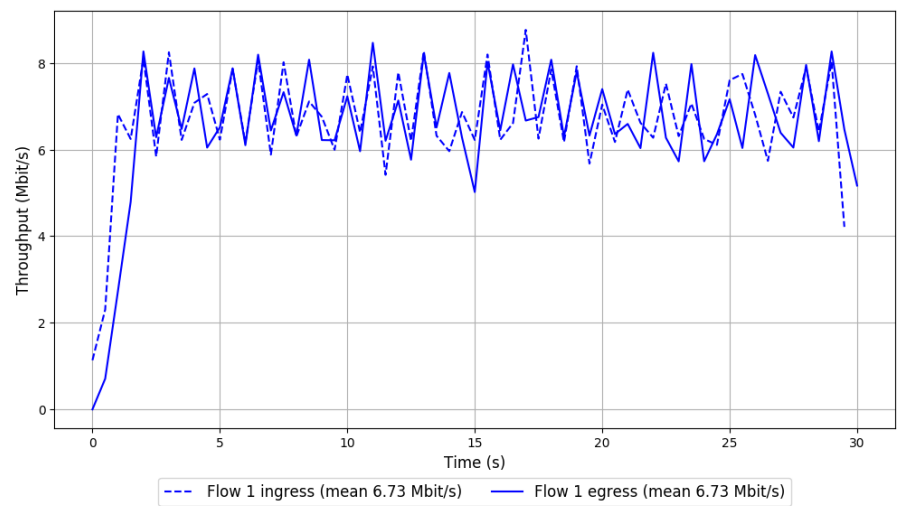


Run 3: Statistics of Sprout

Start at: 2019-11-24 11:23:07
End at: 2019-11-24 11:23:37
Local clock offset: -0.102 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2019-11-24 14:38:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.73 Mbit/s
95th percentile per-packet one-way delay: 65.940 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 6.73 Mbit/s
95th percentile per-packet one-way delay: 65.940 ms
Loss rate: 0.21%

Run 3: Report of Sprout — Data Link

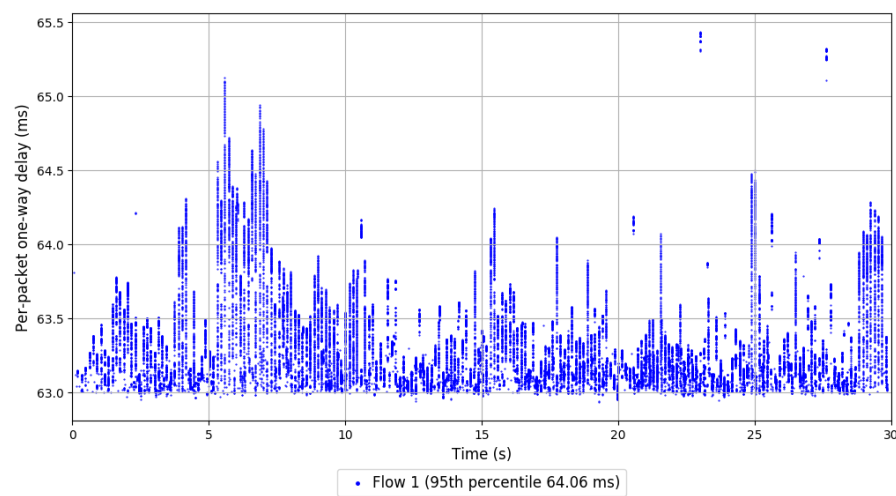
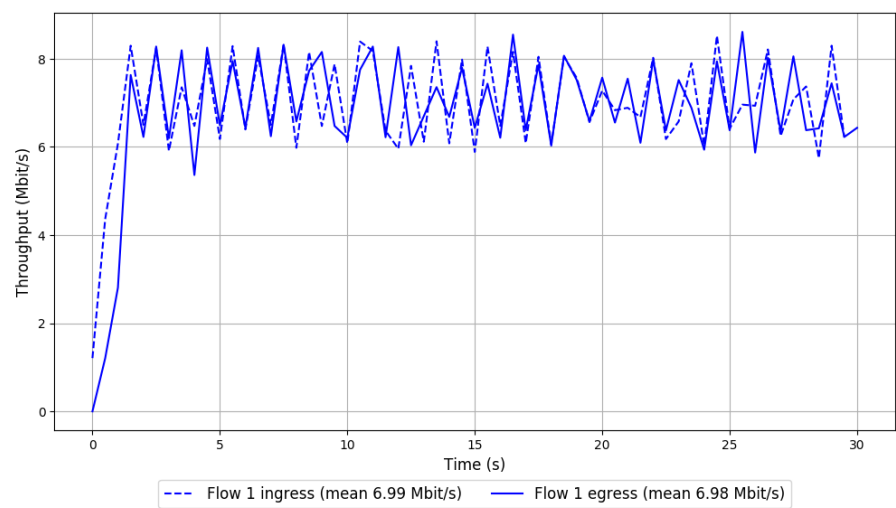


Run 4: Statistics of Sprout

Start at: 2019-11-24 11:57:01
End at: 2019-11-24 11:57:31
Local clock offset: -0.201 ms
Remote clock offset: -0.075 ms

Below is generated by plot.py at 2019-11-24 14:38:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.98 Mbit/s
95th percentile per-packet one-way delay: 64.059 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 6.98 Mbit/s
95th percentile per-packet one-way delay: 64.059 ms
Loss rate: 0.44%

Run 4: Report of Sprout — Data Link

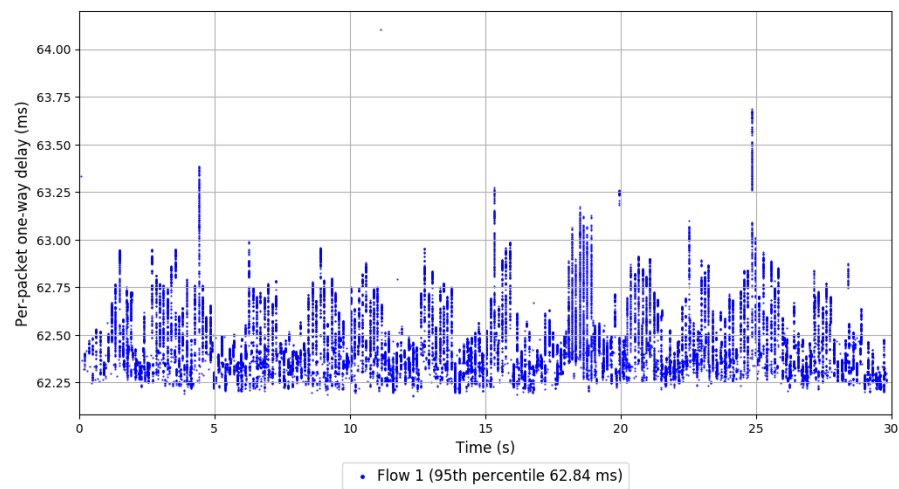
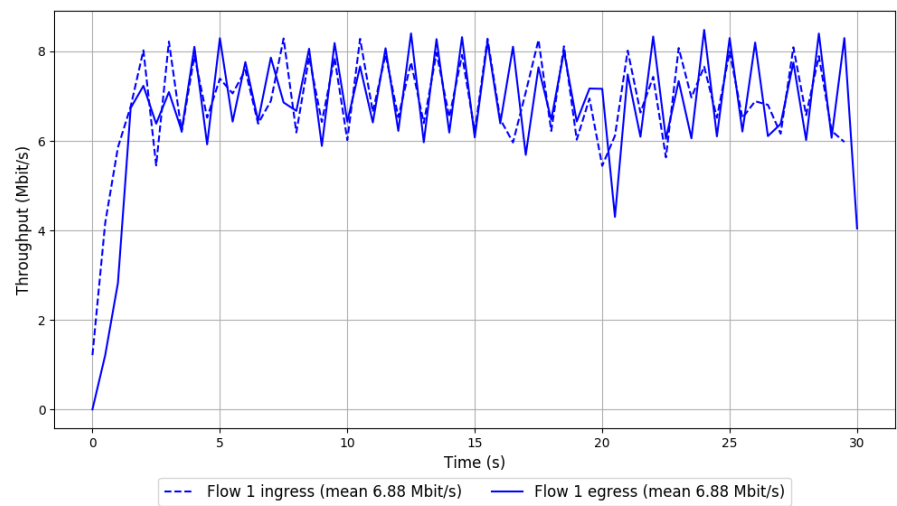


Run 5: Statistics of Sprout

Start at: 2019-11-24 12:31:19
End at: 2019-11-24 12:31:49
Local clock offset: -0.302 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2019-11-24 14:38:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.88 Mbit/s
95th percentile per-packet one-way delay: 62.843 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 6.88 Mbit/s
95th percentile per-packet one-way delay: 62.843 ms
Loss rate: 0.47%

Run 5: Report of Sprout — Data Link

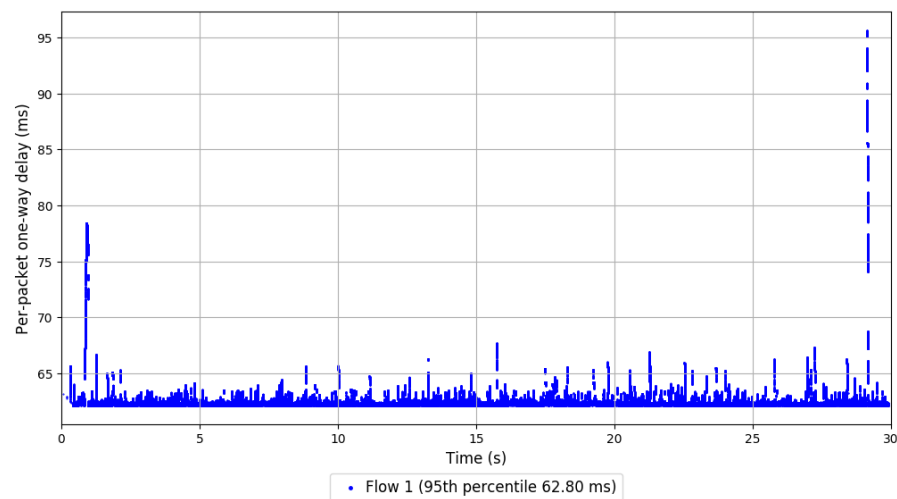
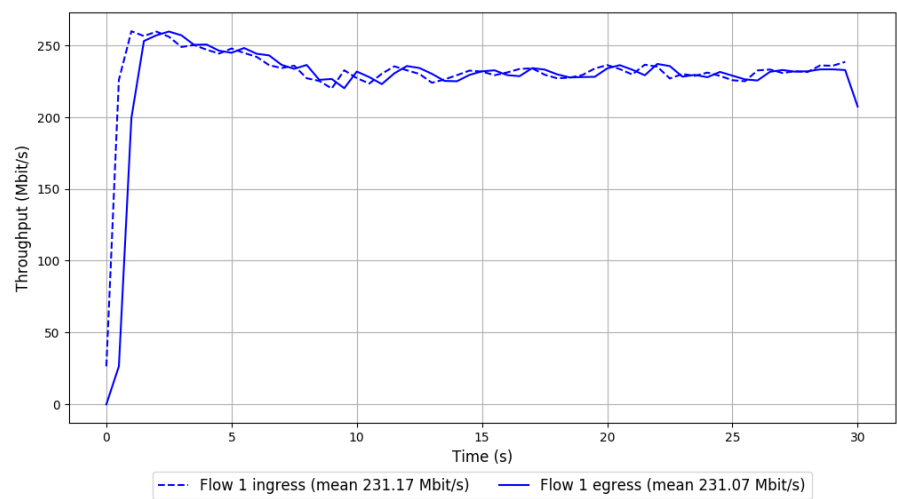


```
Run 1: Statistics of TaoVA-100x

Start at: 2019-11-24 10:12:32
End at: 2019-11-24 10:13:02
Local clock offset: -0.083 ms
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2019-11-24 14:43:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 231.07 Mbit/s
95th percentile per-packet one-way delay: 62.805 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 231.07 Mbit/s
95th percentile per-packet one-way delay: 62.805 ms
Loss rate: 0.46%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2019-11-24 10:47:07

End at: 2019-11-24 10:47:37

Local clock offset: 0.007 ms

Remote clock offset: -0.026 ms

Below is generated by plot.py at 2019-11-24 14:43:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.86 Mbit/s

95th percentile per-packet one-way delay: 62.544 ms

Loss rate: 0.43%

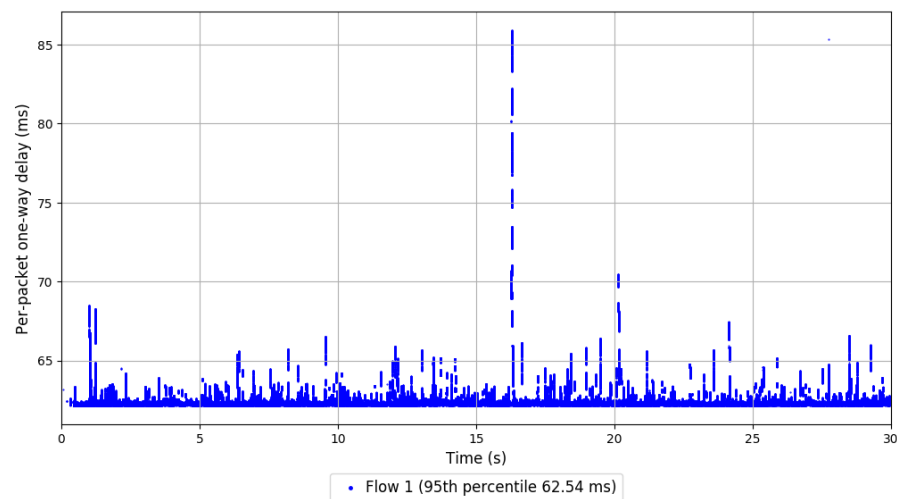
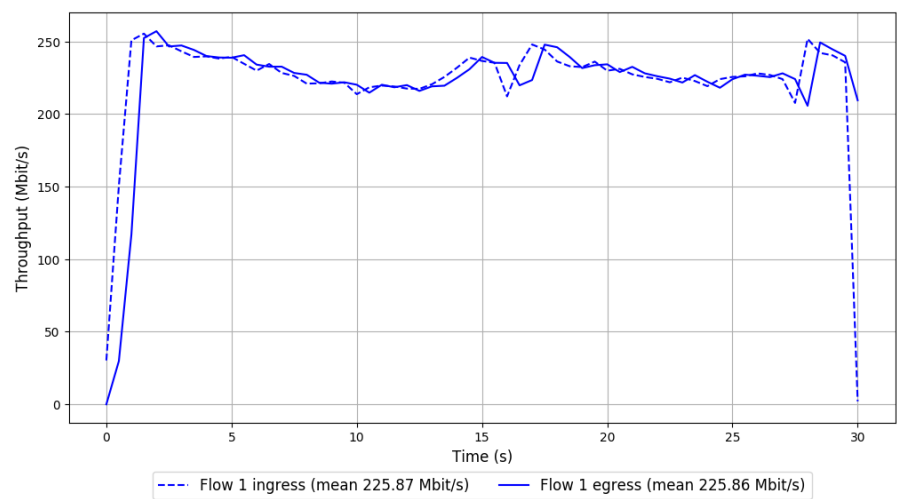
-- Flow 1:

Average throughput: 225.86 Mbit/s

95th percentile per-packet one-way delay: 62.544 ms

Loss rate: 0.43%

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

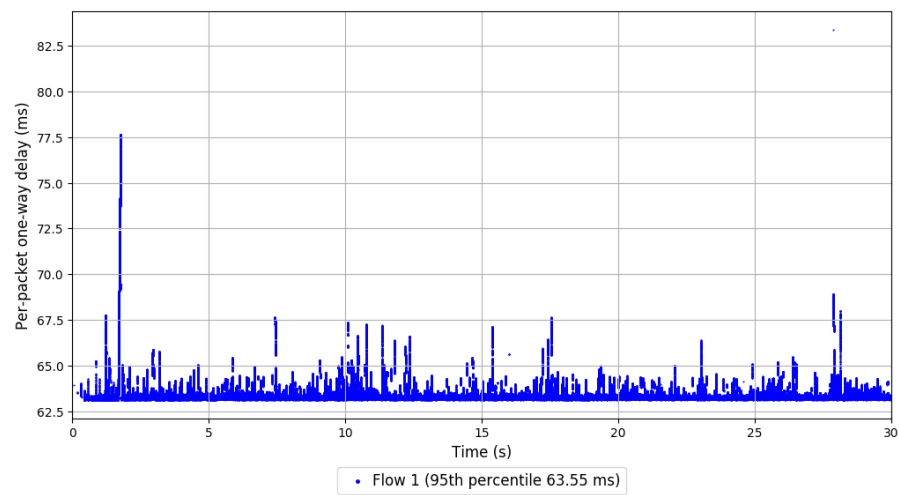
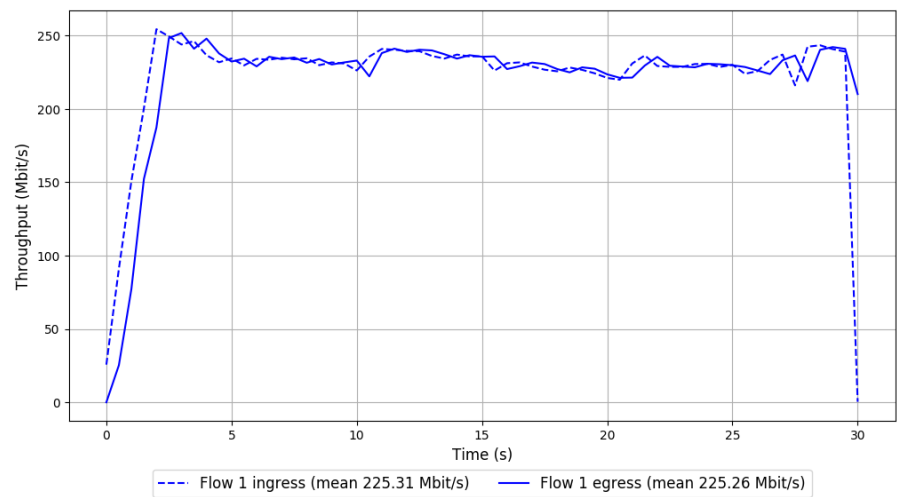


Run 3: Statistics of TaoVA-100x

Start at: 2019-11-24 11:21:40
End at: 2019-11-24 11:22:10
Local clock offset: -0.072 ms
Remote clock offset: -0.032 ms

Below is generated by plot.py at 2019-11-24 14:43:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 225.26 Mbit/s
95th percentile per-packet one-way delay: 63.551 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 225.26 Mbit/s
95th percentile per-packet one-way delay: 63.551 ms
Loss rate: 0.45%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-11-24 11:55:33

End at: 2019-11-24 11:56:03

Local clock offset: -0.209 ms

Remote clock offset: 0.053 ms

Below is generated by plot.py at 2019-11-24 14:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.06 Mbit/s

95th percentile per-packet one-way delay: 62.003 ms

Loss rate: 0.43%

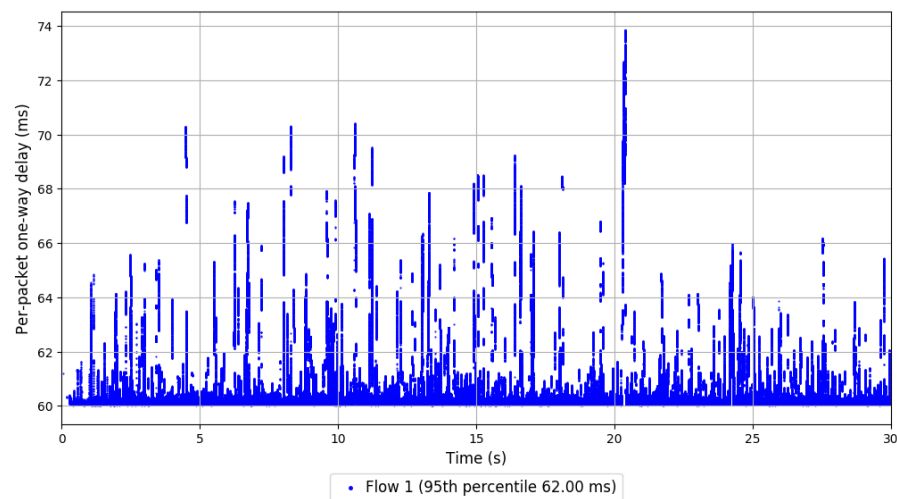
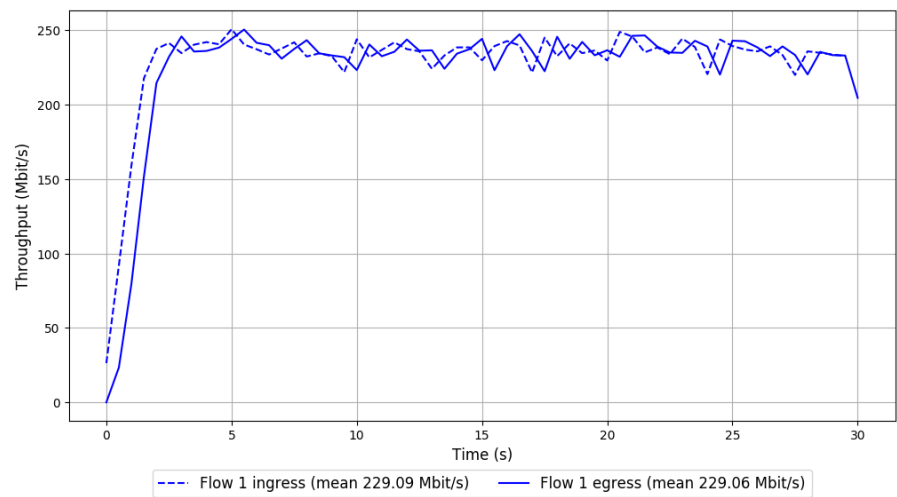
-- Flow 1:

Average throughput: 229.06 Mbit/s

95th percentile per-packet one-way delay: 62.003 ms

Loss rate: 0.43%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-11-24 12:29:53

End at: 2019-11-24 12:30:23

Local clock offset: -0.269 ms

Remote clock offset: 0.084 ms

Below is generated by plot.py at 2019-11-24 14:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.01 Mbit/s

95th percentile per-packet one-way delay: 67.027 ms

Loss rate: 0.43%

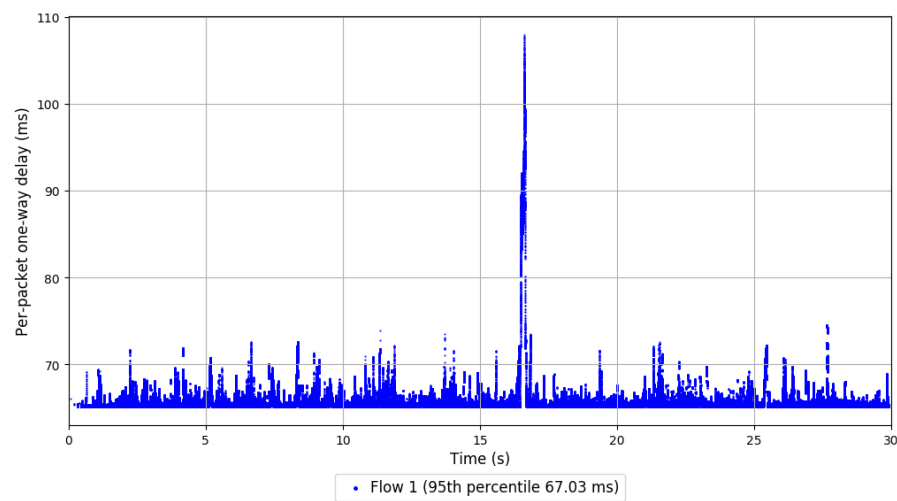
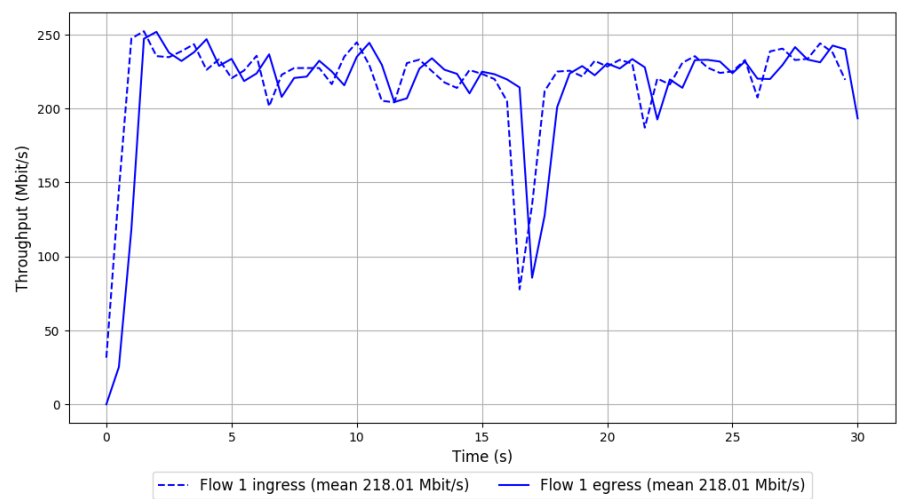
-- Flow 1:

Average throughput: 218.01 Mbit/s

95th percentile per-packet one-way delay: 67.027 ms

Loss rate: 0.43%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-11-24 10:21:00

End at: 2019-11-24 10:21:30

Local clock offset: -0.012 ms

Remote clock offset: 0.074 ms

Below is generated by plot.py at 2019-11-24 14:44:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 445.24 Mbit/s

95th percentile per-packet one-way delay: 98.981 ms

Loss rate: 0.36%

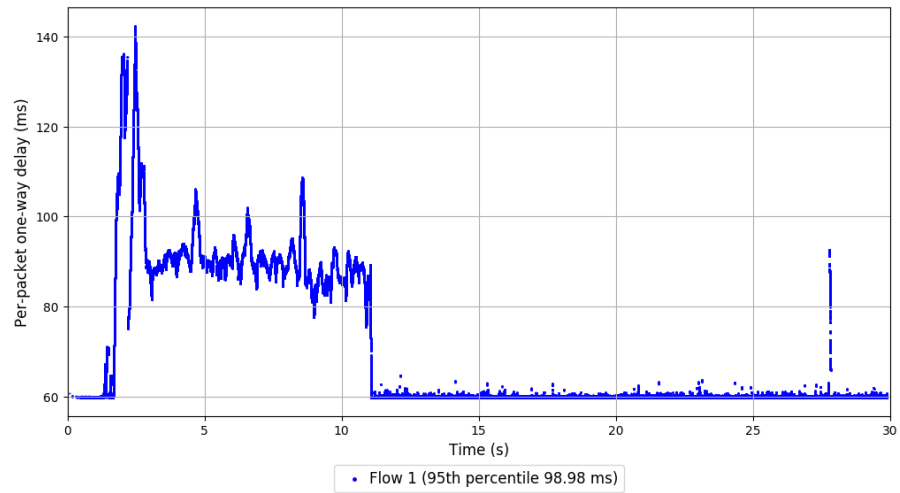
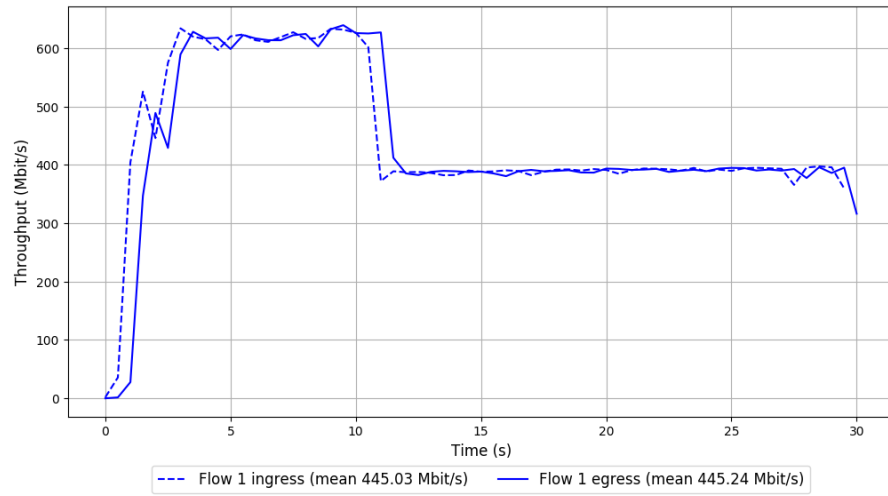
-- Flow 1:

Average throughput: 445.24 Mbit/s

95th percentile per-packet one-way delay: 98.981 ms

Loss rate: 0.36%

Run 1: Report of TCP Vegas — Data Link

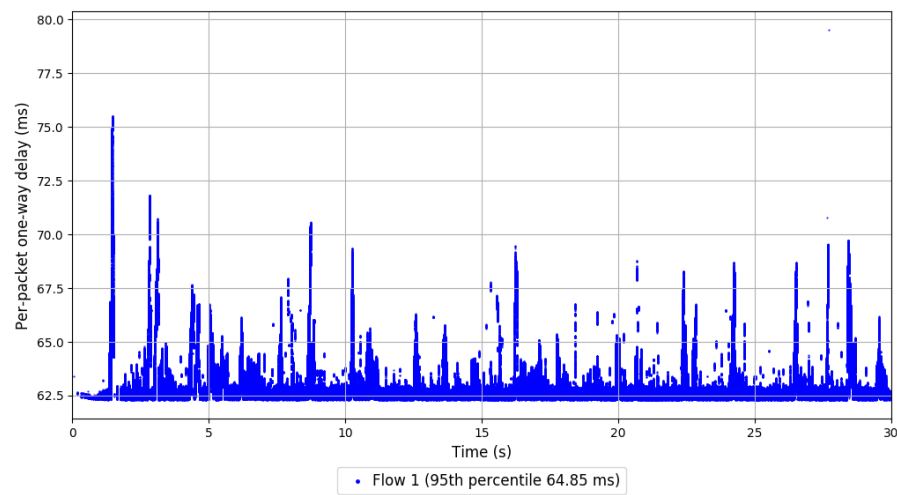
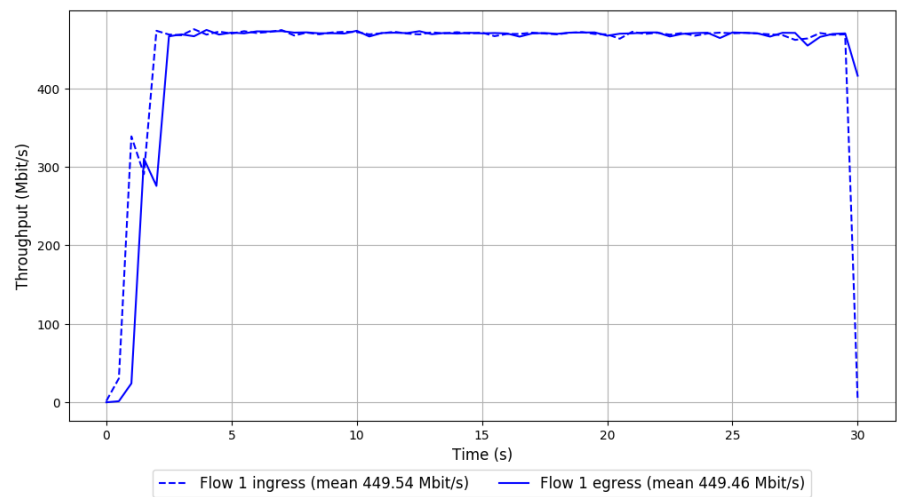


Run 2: Statistics of TCP Vegas

Start at: 2019-11-24 10:55:34
End at: 2019-11-24 10:56:04
Local clock offset: -0.027 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2019-11-24 14:44:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 449.46 Mbit/s
95th percentile per-packet one-way delay: 64.849 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 449.46 Mbit/s
95th percentile per-packet one-way delay: 64.849 ms
Loss rate: 0.43%

Run 2: Report of TCP Vegas — Data Link

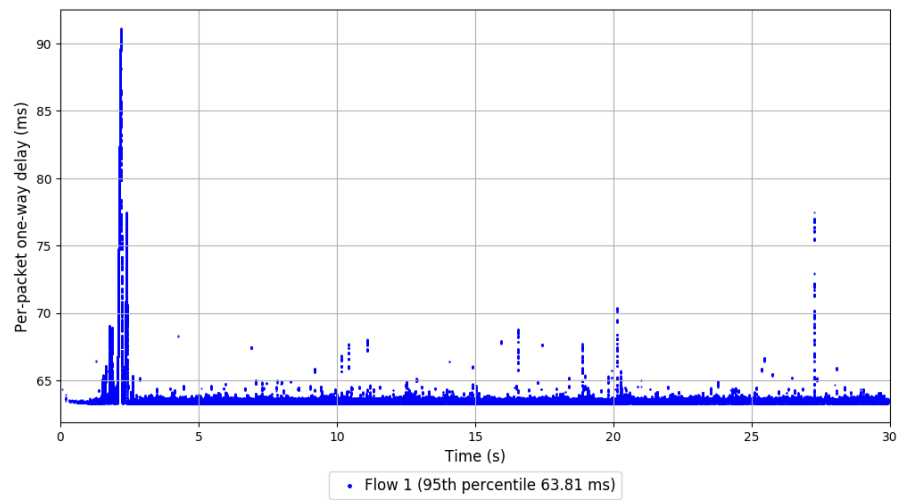
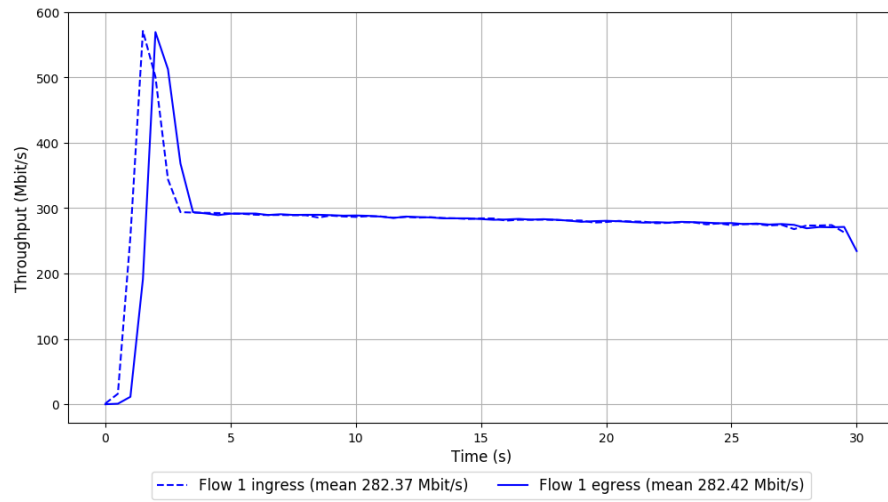


Run 3: Statistics of TCP Vegas

Start at: 2019-11-24 11:30:08
End at: 2019-11-24 11:30:38
Local clock offset: -0.141 ms
Remote clock offset: -0.158 ms

Below is generated by plot.py at 2019-11-24 14:44:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 282.42 Mbit/s
95th percentile per-packet one-way delay: 63.808 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 282.42 Mbit/s
95th percentile per-packet one-way delay: 63.808 ms
Loss rate: 0.40%

Run 3: Report of TCP Vegas — Data Link

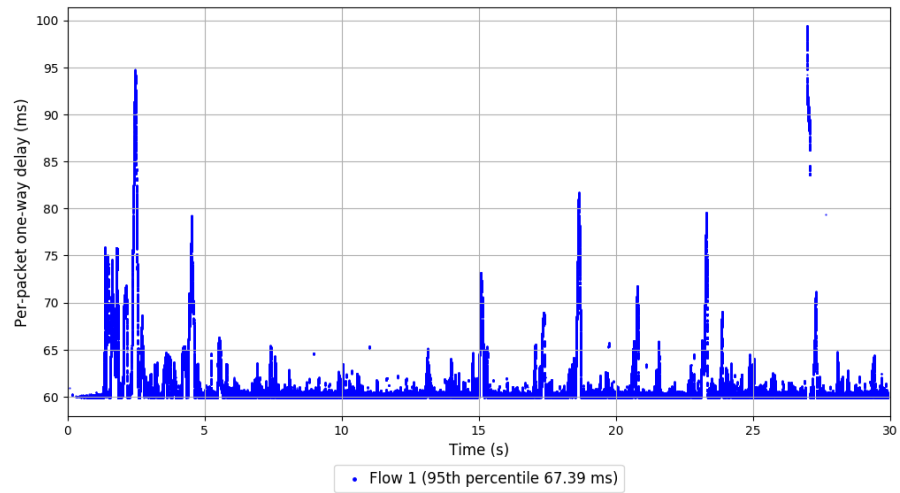
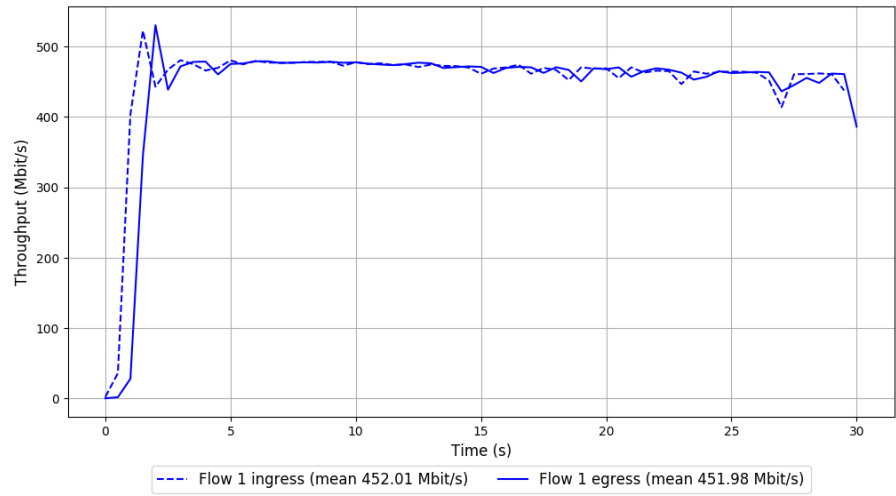


Run 4: Statistics of TCP Vegas

Start at: 2019-11-24 12:03:59
End at: 2019-11-24 12:04:29
Local clock offset: -0.217 ms
Remote clock offset: -0.089 ms

Below is generated by plot.py at 2019-11-24 14:50:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 451.98 Mbit/s
95th percentile per-packet one-way delay: 67.390 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 451.98 Mbit/s
95th percentile per-packet one-way delay: 67.390 ms
Loss rate: 0.41%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-11-24 12:38:19

End at: 2019-11-24 12:38:49

Local clock offset: -0.299 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2019-11-24 14:50:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 287.83 Mbit/s

95th percentile per-packet one-way delay: 62.884 ms

Loss rate: 0.42%

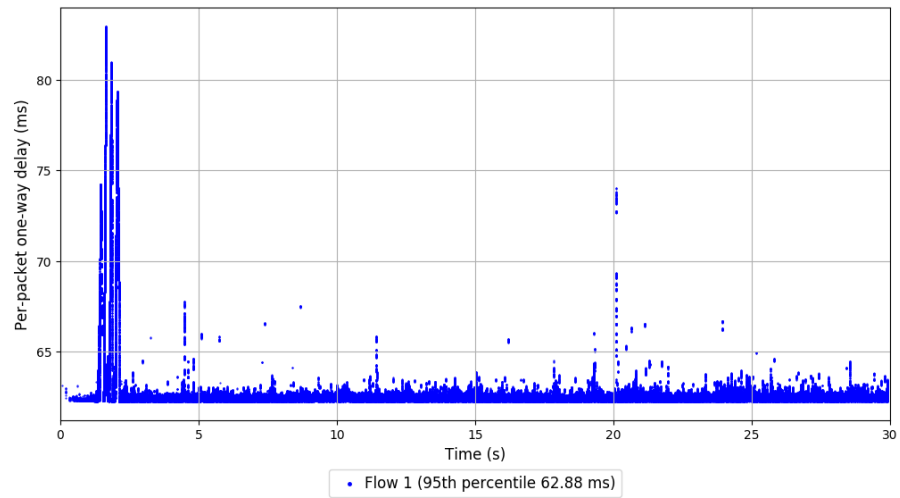
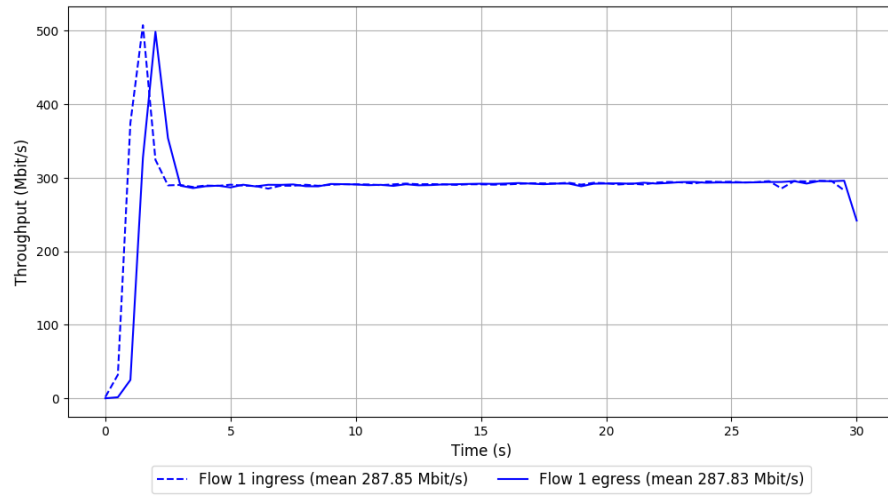
-- Flow 1:

Average throughput: 287.83 Mbit/s

95th percentile per-packet one-way delay: 62.884 ms

Loss rate: 0.42%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-11-24 10:06:47

End at: 2019-11-24 10:07:17

Local clock offset: -0.111 ms

Remote clock offset: 0.145 ms

Below is generated by plot.py at 2019-11-24 14:50:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.77 Mbit/s

95th percentile per-packet one-way delay: 100.551 ms

Loss rate: 0.00%

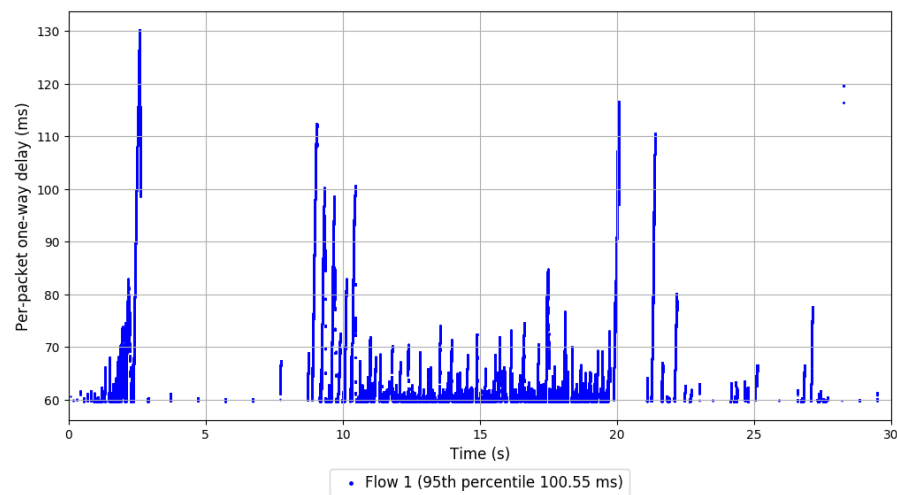
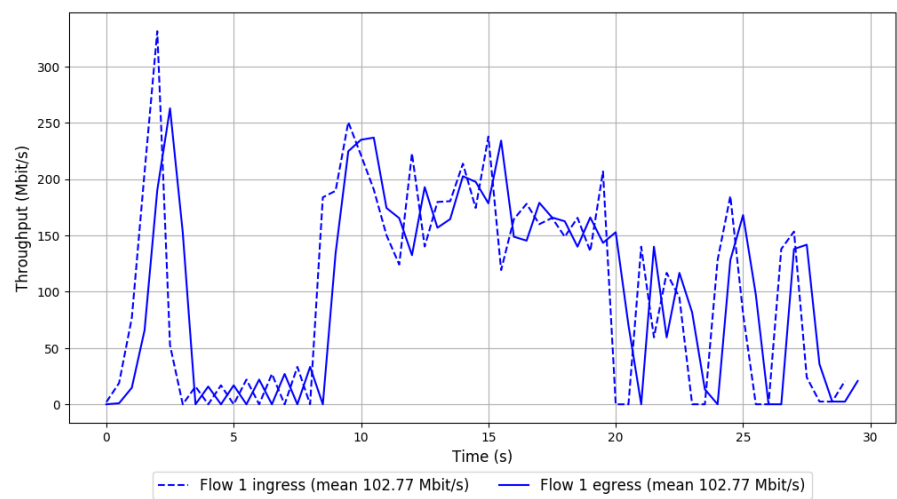
-- Flow 1:

Average throughput: 102.77 Mbit/s

95th percentile per-packet one-way delay: 100.551 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link

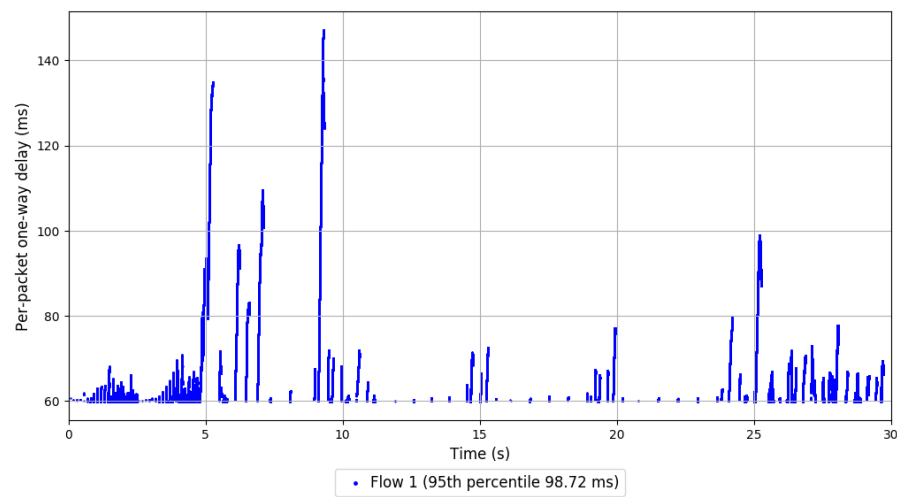
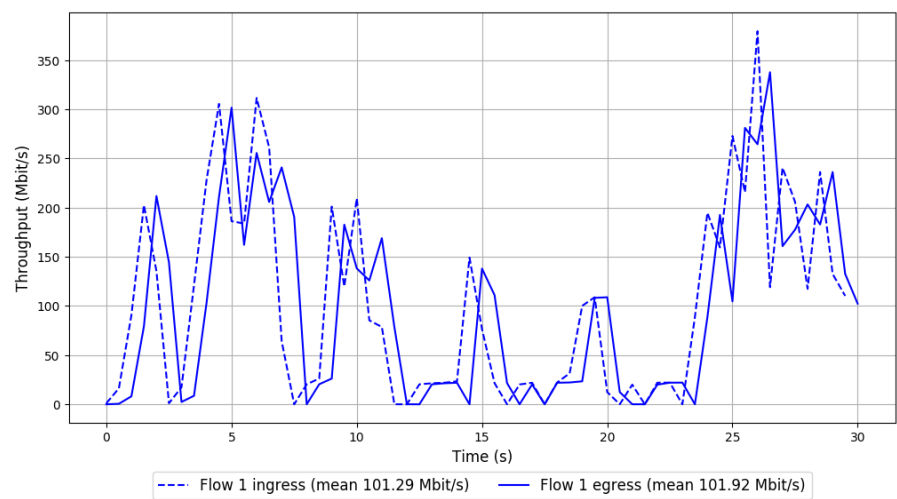


Run 2: Statistics of Verus

Start at: 2019-11-24 10:41:29
End at: 2019-11-24 10:41:59
Local clock offset: 0.018 ms
Remote clock offset: -0.019 ms

Below is generated by plot.py at 2019-11-24 14:50:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 101.92 Mbit/s
95th percentile per-packet one-way delay: 98.716 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 101.92 Mbit/s
95th percentile per-packet one-way delay: 98.716 ms
Loss rate: 0.13%

Run 2: Report of Verus — Data Link

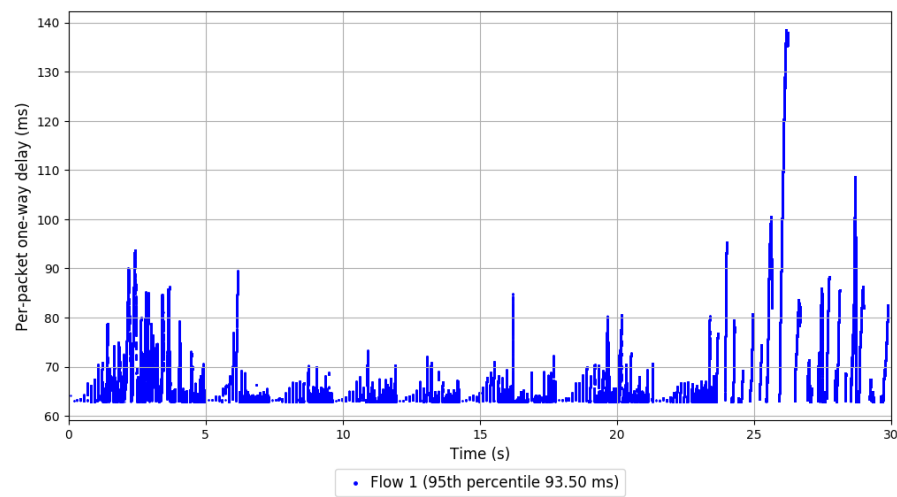
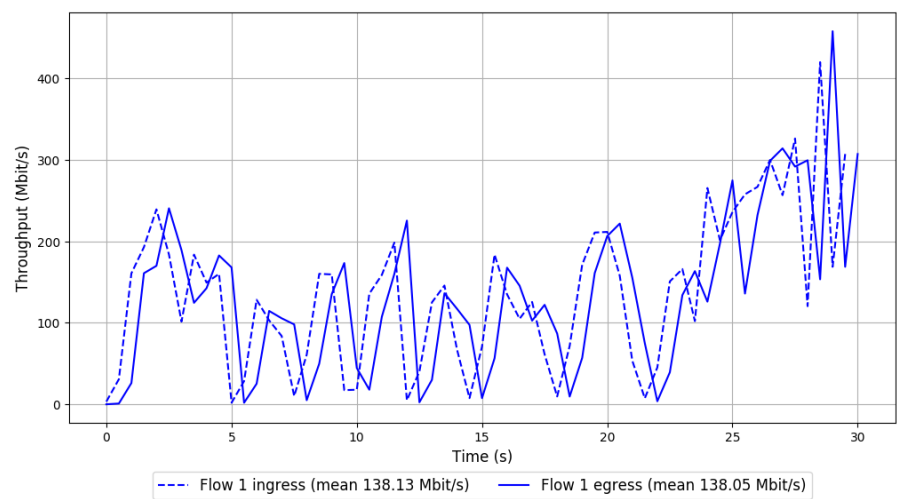


Run 3: Statistics of Verus

Start at: 2019-11-24 11:15:59
End at: 2019-11-24 11:16:29
Local clock offset: -0.042 ms
Remote clock offset: -0.053 ms

Below is generated by plot.py at 2019-11-24 14:50:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 138.05 Mbit/s
95th percentile per-packet one-way delay: 93.497 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 138.05 Mbit/s
95th percentile per-packet one-way delay: 93.497 ms
Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

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

End at: 2019-11-24 11:50:30

Local clock offset: -0.22 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2019-11-24 14:50:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.07 Mbit/s

95th percentile per-packet one-way delay: 118.869 ms

Loss rate: 0.00%

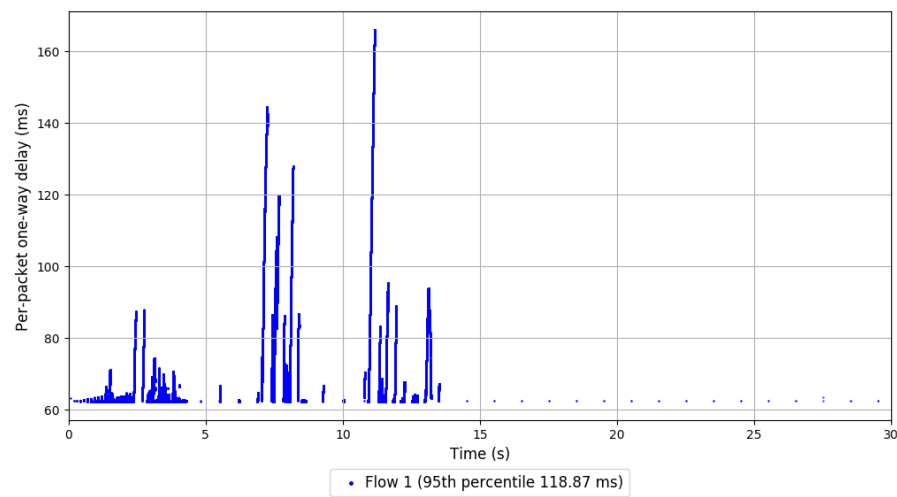
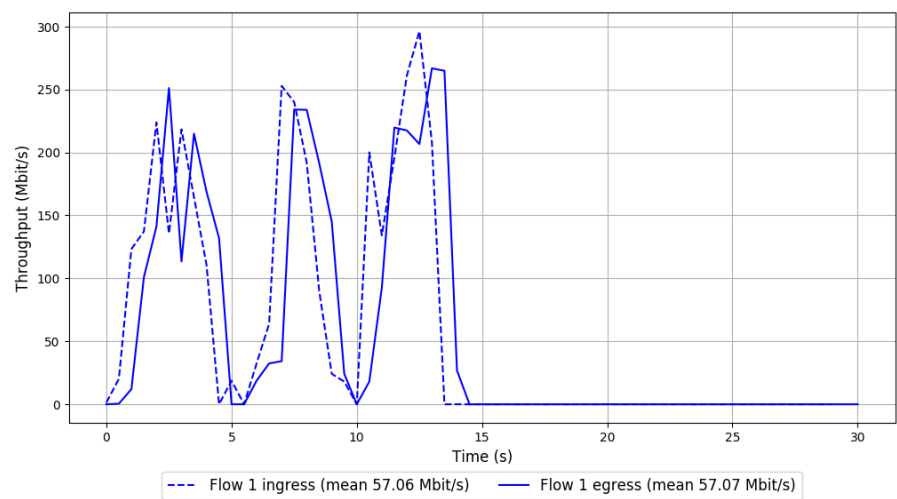
-- Flow 1:

Average throughput: 57.07 Mbit/s

95th percentile per-packet one-way delay: 118.869 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link

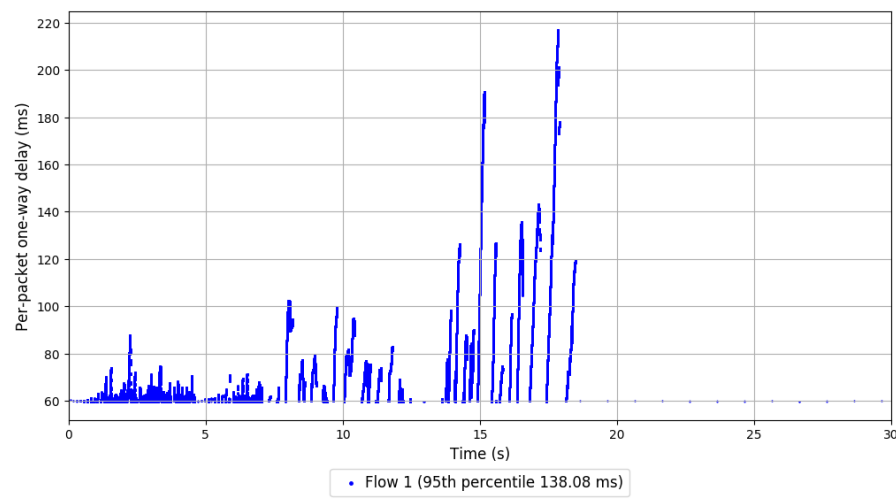
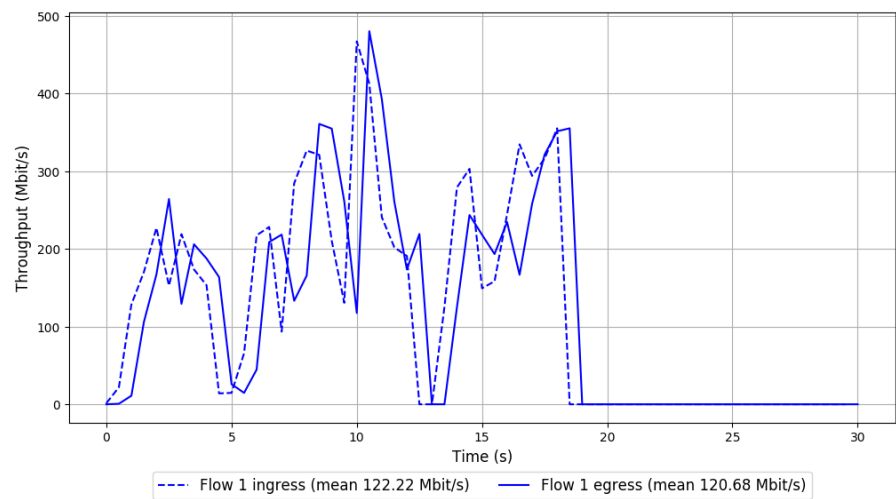


Run 5: Statistics of Verus

Start at: 2019-11-24 12:24:14
End at: 2019-11-24 12:24:44
Local clock offset: -0.259 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2019-11-24 14:50:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 120.68 Mbit/s
95th percentile per-packet one-way delay: 138.079 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 120.68 Mbit/s
95th percentile per-packet one-way delay: 138.079 ms
Loss rate: 1.27%

Run 5: Report of Verus — Data Link

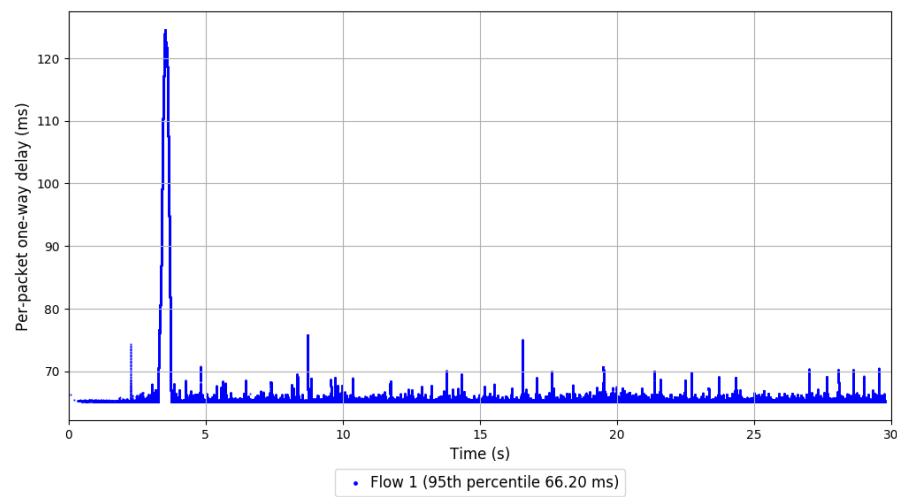
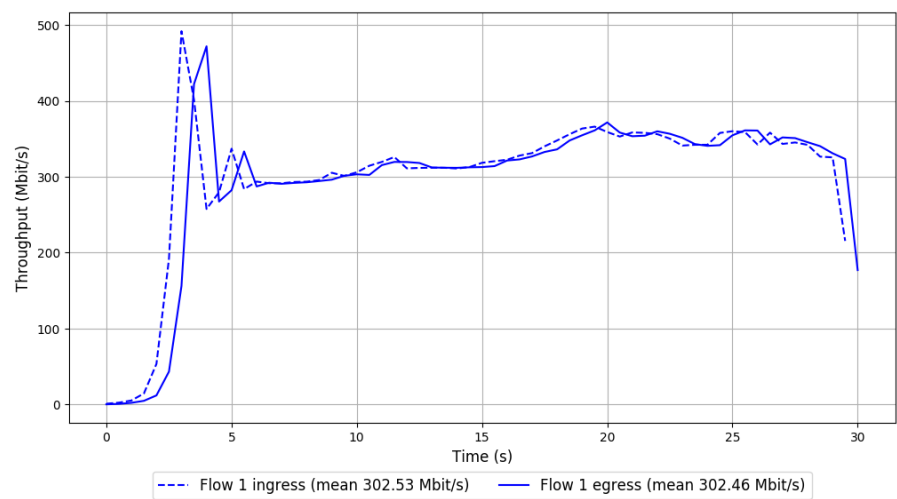


Run 1: Statistics of PCC-Vivace

Start at: 2019-11-24 10:08:03
End at: 2019-11-24 10:08:33
Local clock offset: -0.109 ms
Remote clock offset: -0.066 ms

Below is generated by plot.py at 2019-11-24 14:50:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 302.46 Mbit/s
95th percentile per-packet one-way delay: 66.205 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 302.46 Mbit/s
95th percentile per-packet one-way delay: 66.205 ms
Loss rate: 0.45%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-11-24 10:42:44

End at: 2019-11-24 10:43:14

Local clock offset: 0.039 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2019-11-24 14:50:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 333.22 Mbit/s

95th percentile per-packet one-way delay: 69.020 ms

Loss rate: 0.42%

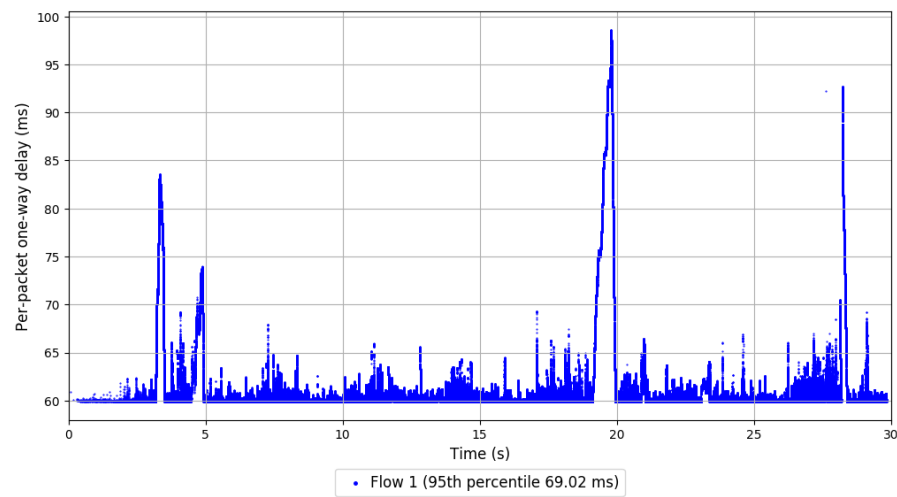
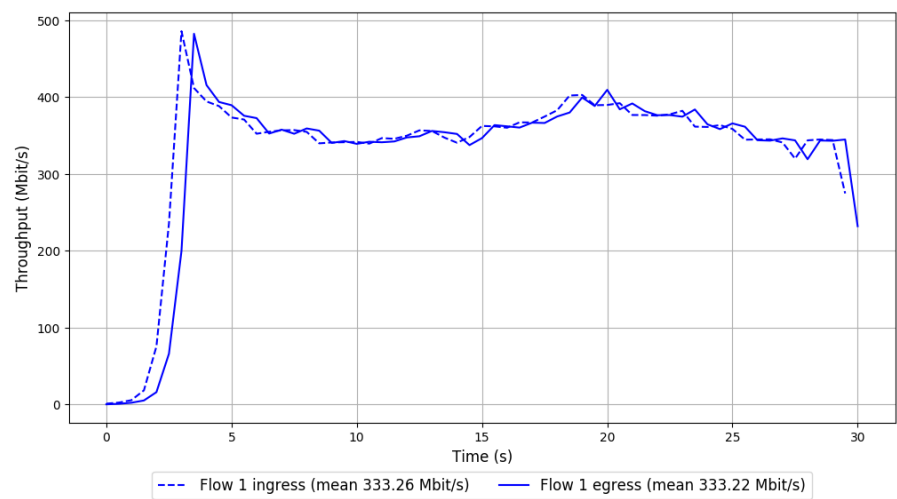
-- Flow 1:

Average throughput: 333.22 Mbit/s

95th percentile per-packet one-way delay: 69.020 ms

Loss rate: 0.42%

Run 2: Report of PCC-Vivace — Data Link

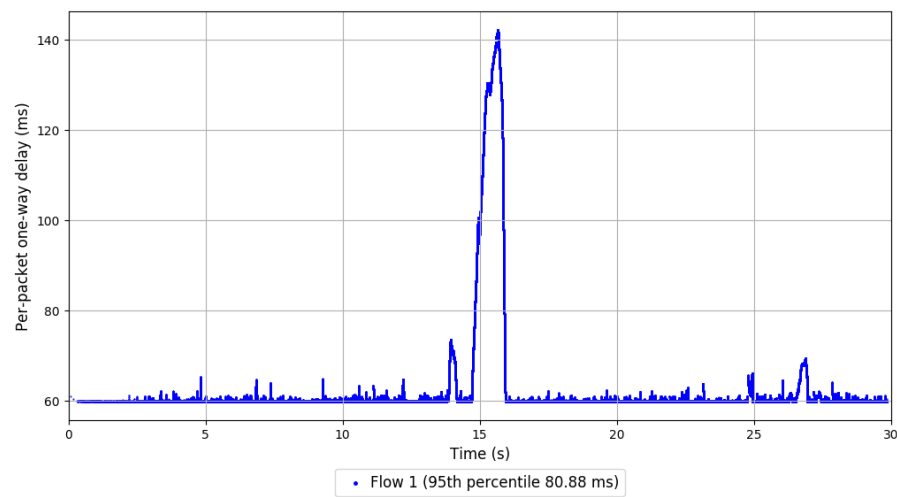
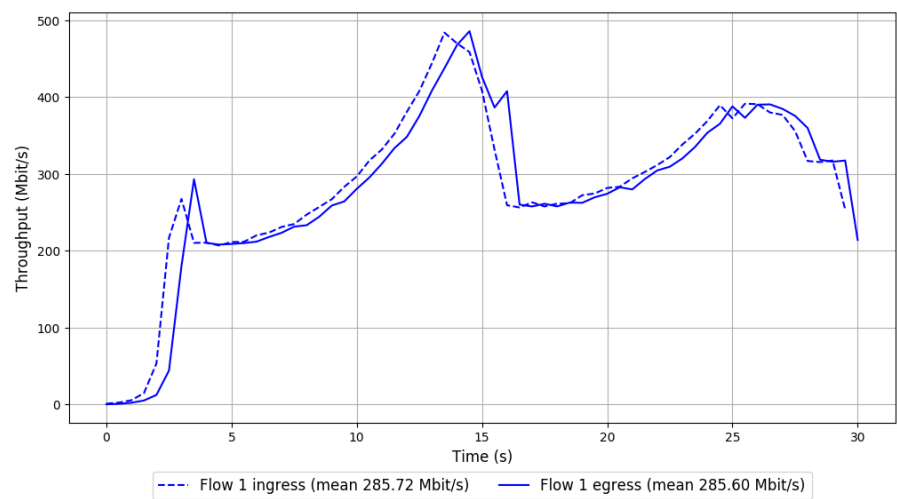


Run 3: Statistics of PCC-Vivace

Start at: 2019-11-24 11:17:18
End at: 2019-11-24 11:17:48
Local clock offset: -0.04 ms
Remote clock offset: -0.104 ms

Below is generated by plot.py at 2019-11-24 14:50:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 285.60 Mbit/s
95th percentile per-packet one-way delay: 80.876 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 285.60 Mbit/s
95th percentile per-packet one-way delay: 80.876 ms
Loss rate: 0.45%

Run 3: Report of PCC-Vivace — Data Link

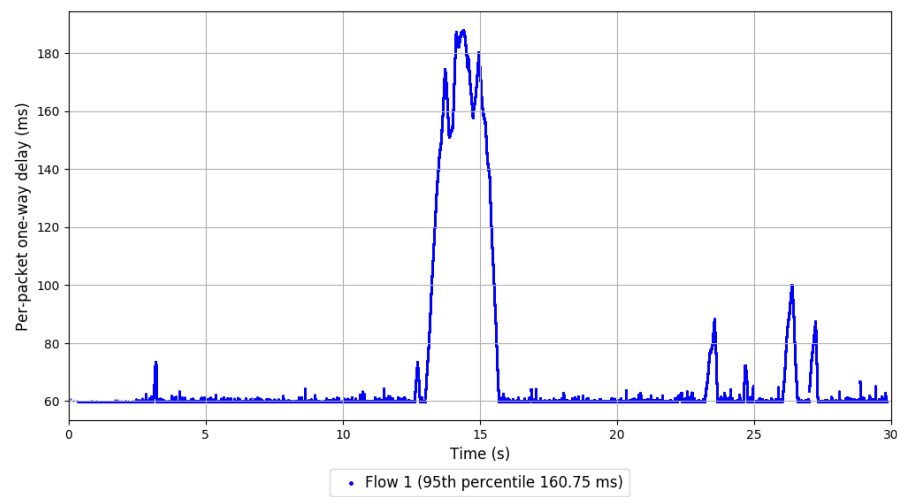
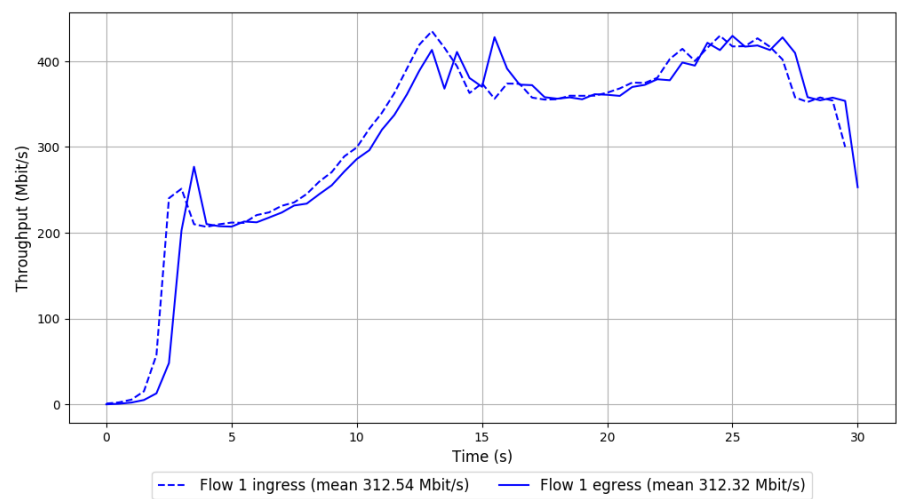


Run 4: Statistics of PCC-Vivace

Start at: 2019-11-24 11:51:12
End at: 2019-11-24 11:51:42
Local clock offset: -0.2 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2019-11-24 14:50:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 312.32 Mbit/s
95th percentile per-packet one-way delay: 160.746 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 312.32 Mbit/s
95th percentile per-packet one-way delay: 160.746 ms
Loss rate: 0.48%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-11-24 12:25:32

End at: 2019-11-24 12:26:02

Local clock offset: -0.277 ms

Remote clock offset: 0.094 ms

Below is generated by plot.py at 2019-11-24 14:50:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 332.89 Mbit/s

95th percentile per-packet one-way delay: 66.949 ms

Loss rate: 0.46%

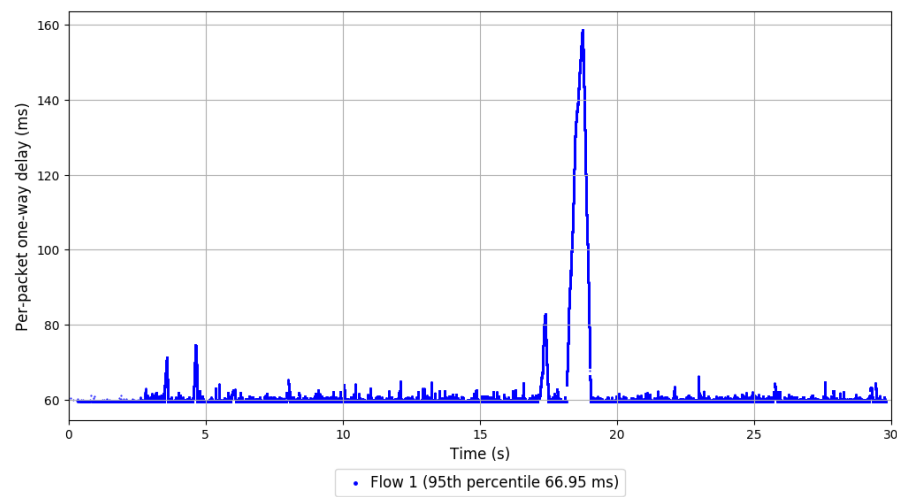
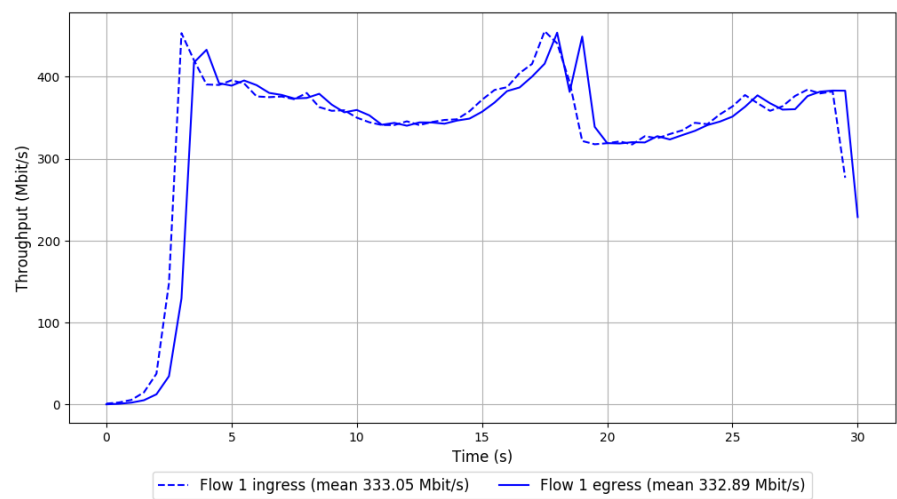
-- Flow 1:

Average throughput: 332.89 Mbit/s

95th percentile per-packet one-way delay: 66.949 ms

Loss rate: 0.46%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

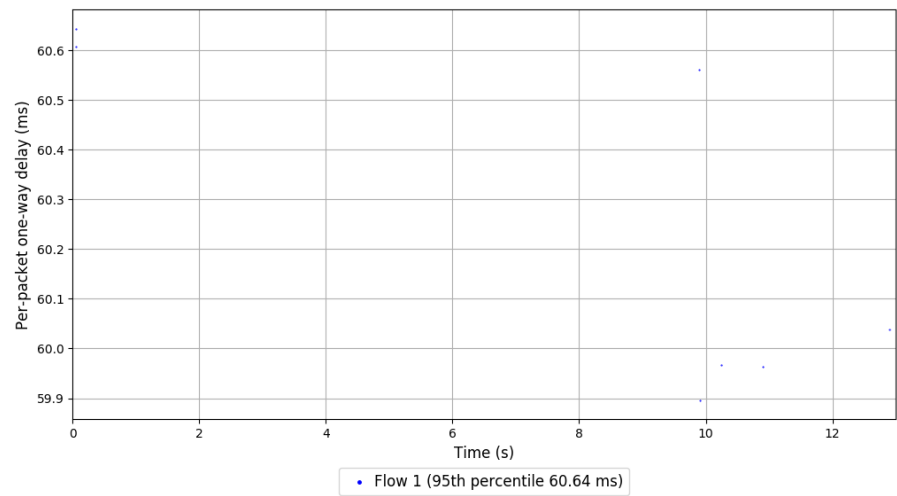
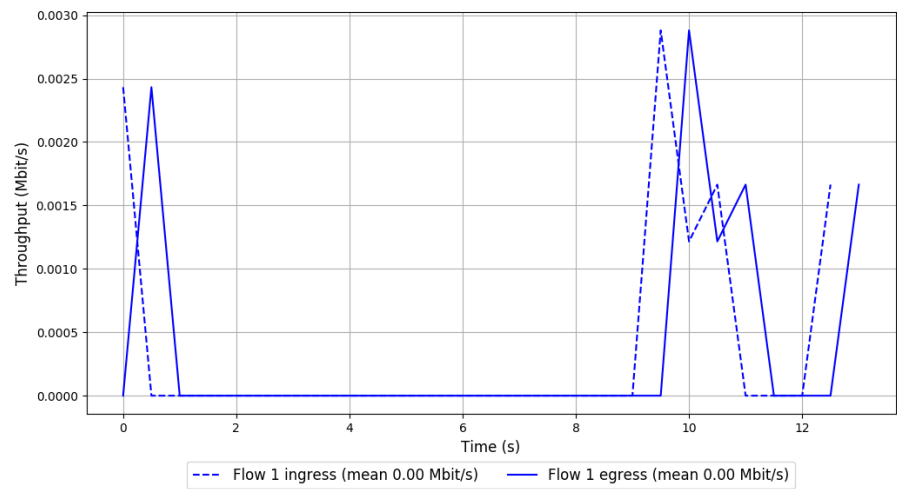
Start at: 2019-11-24 10:29:38

End at: 2019-11-24 10:30:08

Local clock offset: 0.026 ms

Remote clock offset: 0.094 ms

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

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

End at: 2019-11-24 11:04:40

Local clock offset: -0.031 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2019-11-24 14:50:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 62.696 ms

Loss rate: 0.00%

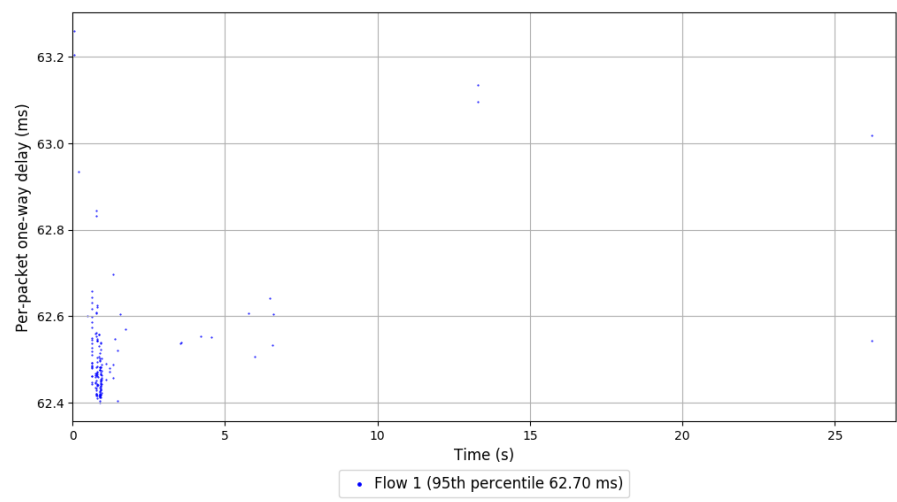
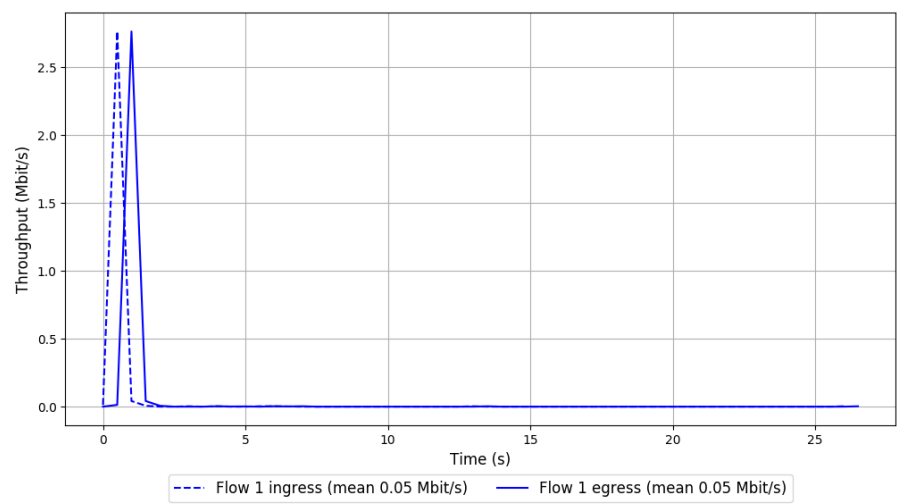
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 62.696 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

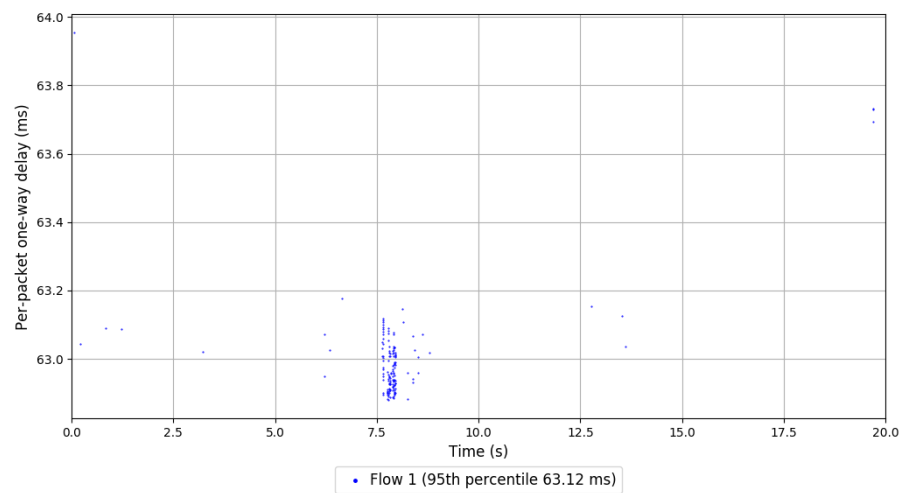
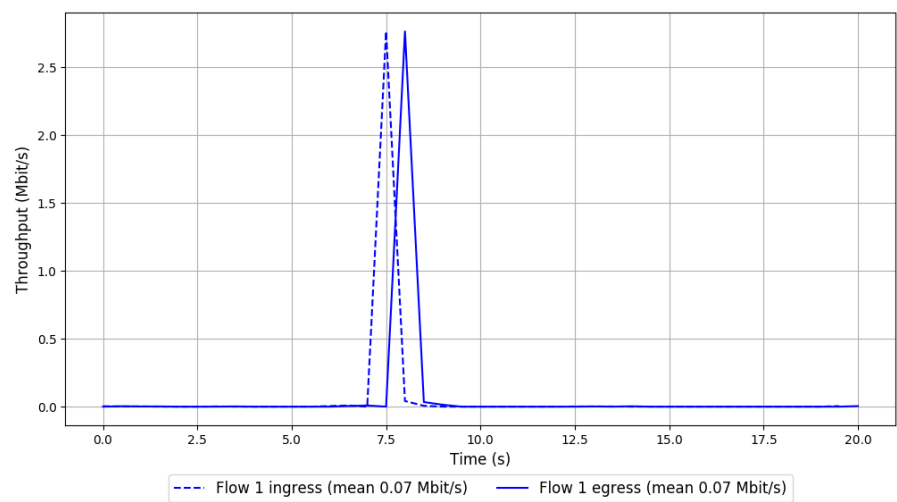
Start at: 2019-11-24 11:38:40

End at: 2019-11-24 11:39:10

Local clock offset: -0.157 ms

Remote clock offset: 0.05 ms

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

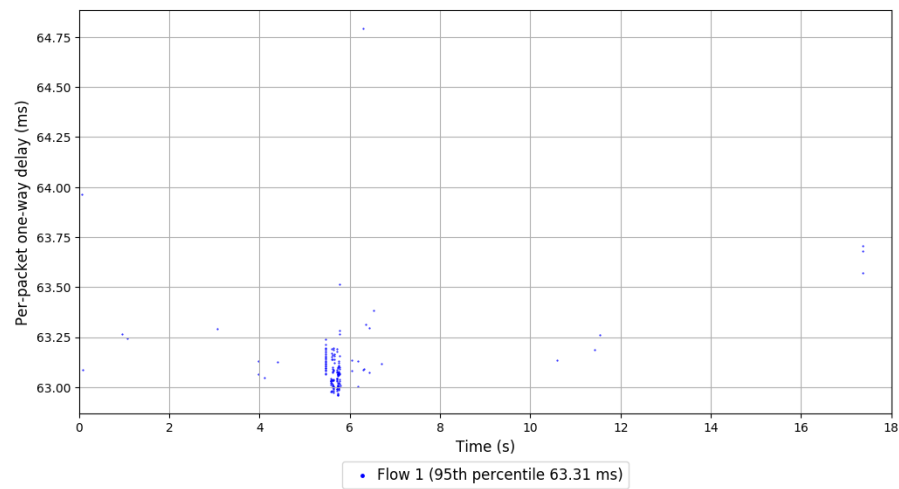
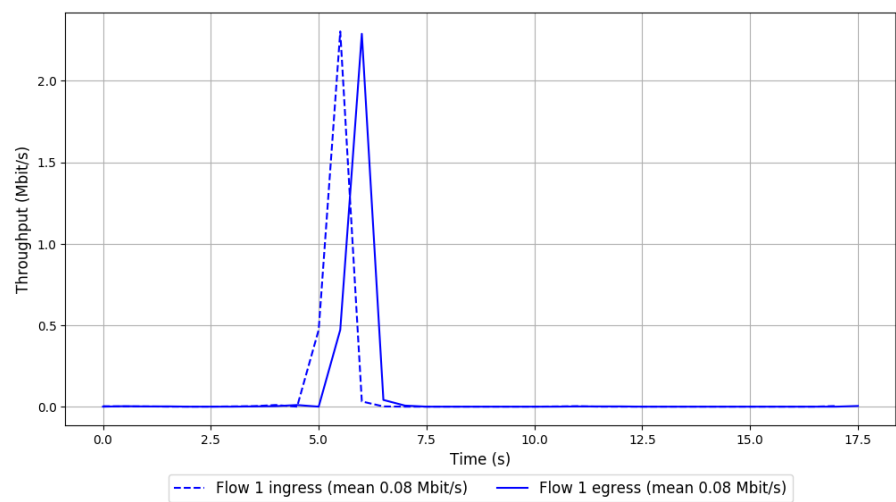
Start at: 2019-11-24 12:12:39

End at: 2019-11-24 12:13:09

Local clock offset: -0.28 ms

Remote clock offset: -0.114 ms

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-11-24 12:46:47
End at: 2019-11-24 12:47:17
Local clock offset: -0.311 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2019-11-24 14:50:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 62.442 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 62.442 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

