

Pantheon Report

Generated at 2019-12-11 05:20:34 (UTC).

Data path: AWS India 1 on `ens5` (*local*) → India on `em1` (*remote*).

Repeated the test of 24 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

NTP offsets were measured against `nets.org.sg` and have been applied to correct the timestamps in logs.

System info:

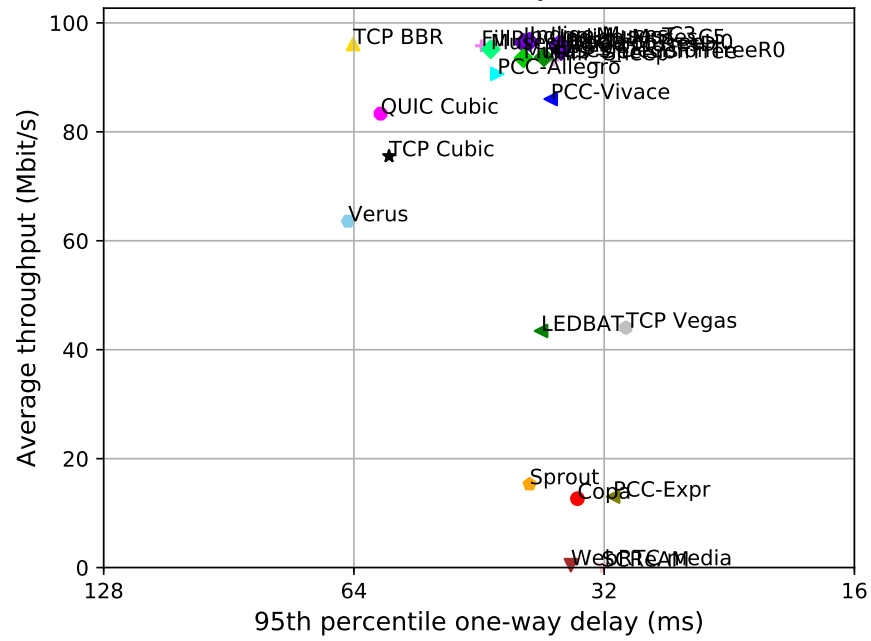
```
Linux 4.15.0-1054-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

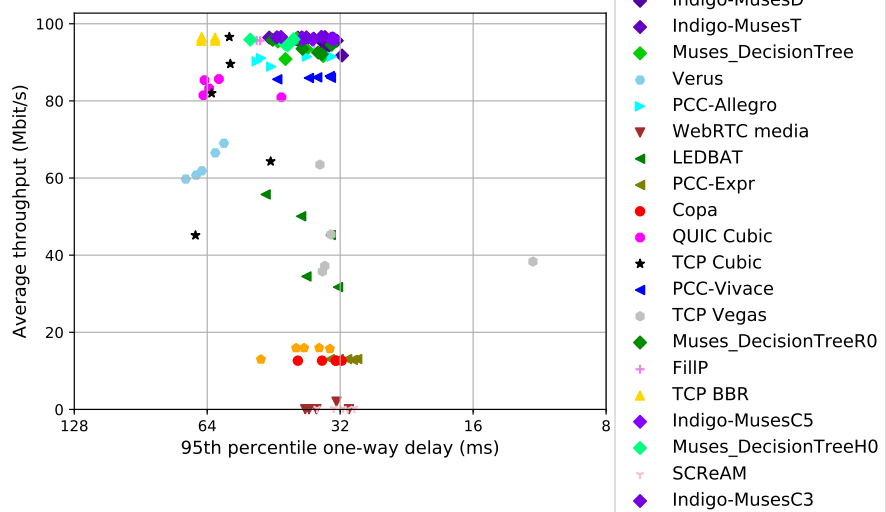
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d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

third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from AWS India 1 to India, 5 runs of 30s each per scheme
(mean of all runs by scheme)



test from AWS India 1 to India, 5 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	96.12	64.13	1.25
Copa	5	12.65	34.46	72.82
TCP Cubic	5	75.53	58.07	0.39
FillP	5	95.80	44.97	0.46
FillP-Sheep	5	93.13	36.87	0.44
Indigo	5	95.50	36.25	0.01
Indigo-MusesC3	5	96.54	39.36	0.03
Indigo-MusesC5	5	96.08	36.25	0.09
Indigo-MusesD	5	94.83	36.04	0.08
Indigo-MusesT	5	96.37	40.02	0.15
LEDBAT	5	43.45	38.11	0.08
Muses_DecisionTree	5	93.50	40.01	0.02
Muses_DecisionTreeH0	5	95.16	43.82	0.10
Muses_DecisionTreeR0	5	93.72	37.80	0.02
PCC-Allegro	5	90.64	43.02	0.62
PCC-Expr	5	13.02	31.22	51.63
QUIC Cubic	5	83.34	59.44	1.07
SCReAM	5	0.19	32.24	0.00
Sprout	5	15.31	39.34	0.08
TaoVA-100x	0	N/A	N/A	N/A
TCP Vegas	5	44.04	30.13	1.23
Verus	5	63.58	65.03	24.03
PCC-Vivace	5	86.02	37.11	0.01
WebRTC media	5	0.44	35.09	0.01

Run 1: Statistics of TCP BBR

Start at: 2019-12-11 02:52:09

End at: 2019-12-11 02:52:39

Local clock offset: 3.196 ms

Remote clock offset: 0.723 ms

Below is generated by plot.py at 2019-12-11 05:08:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.45 Mbit/s

95th percentile per-packet one-way delay: 65.897 ms

Loss rate: 1.17%

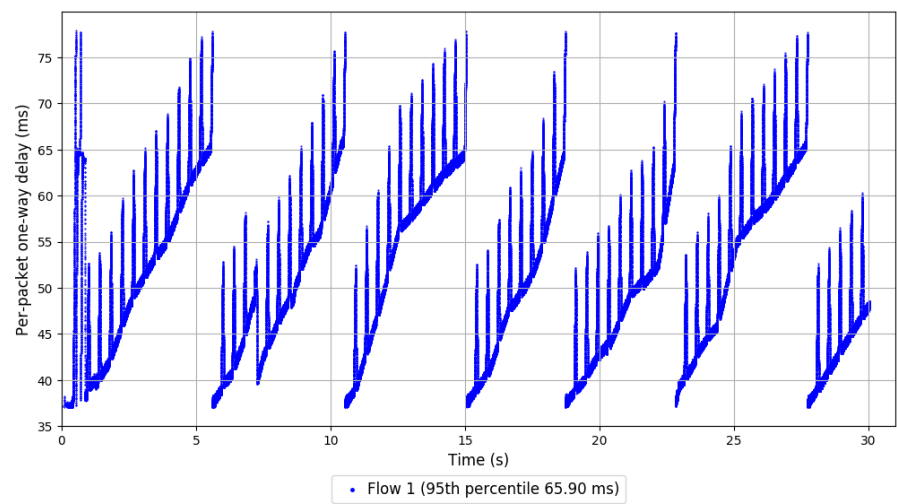
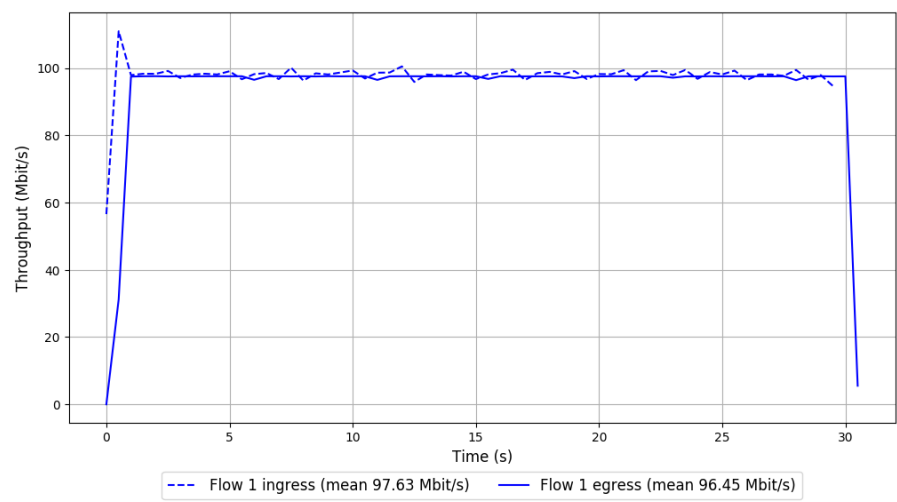
-- Flow 1:

Average throughput: 96.45 Mbit/s

95th percentile per-packet one-way delay: 65.897 ms

Loss rate: 1.17%

Run 1: Report of TCP BBR — Data Link

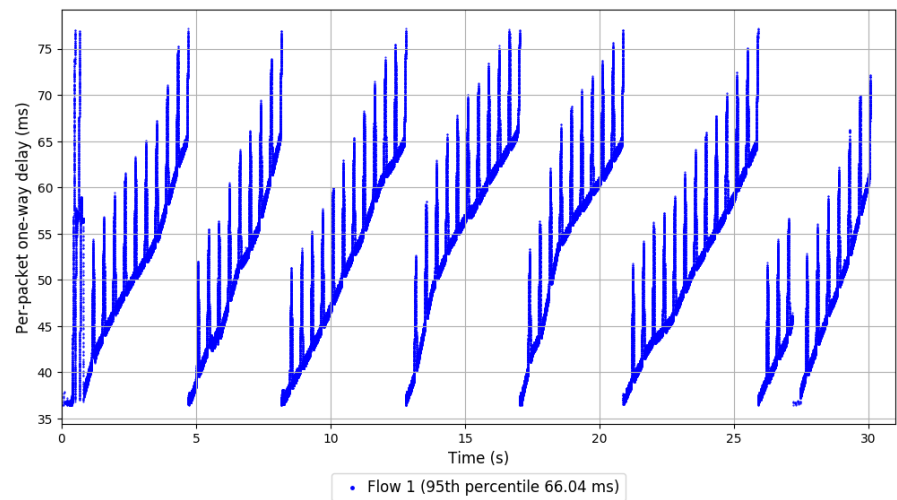
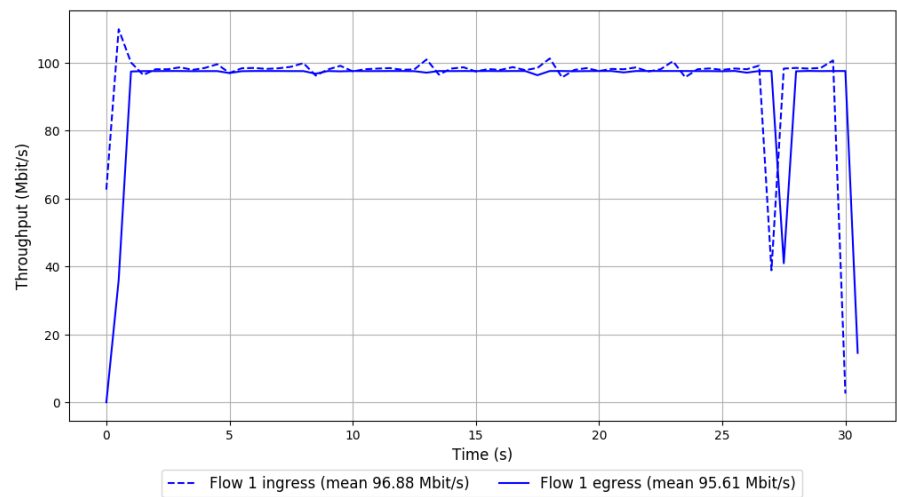


Run 2: Statistics of TCP BBR

Start at: 2019-12-11 03:21:06
End at: 2019-12-11 03:21:36
Local clock offset: -0.663 ms
Remote clock offset: -0.765 ms

Below is generated by plot.py at 2019-12-11 05:08:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 66.038 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 66.038 ms
Loss rate: 1.22%

Run 2: Report of TCP BBR — Data Link

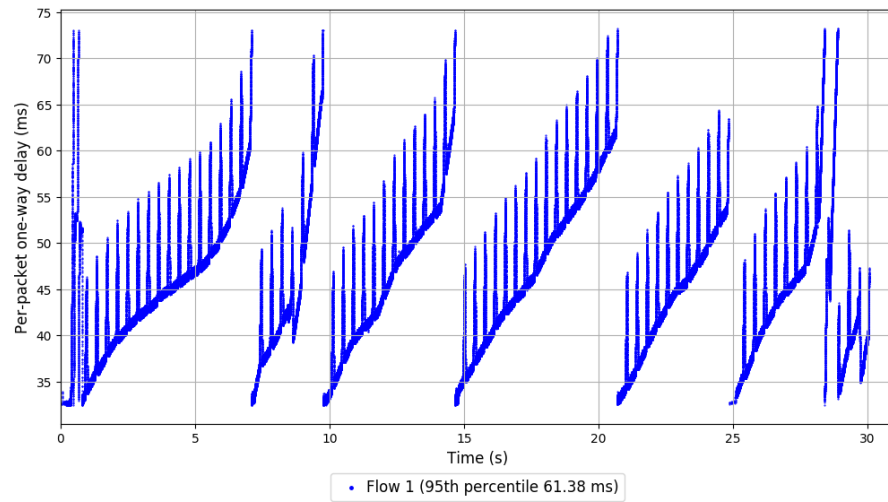
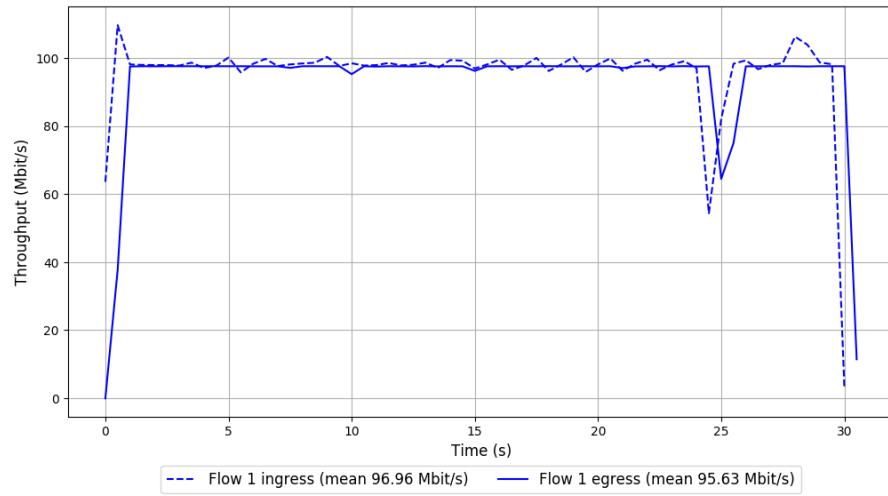


Run 3: Statistics of TCP BBR

Start at: 2019-12-11 03:50:47
End at: 2019-12-11 03:51:17
Local clock offset: 2.757 ms
Remote clock offset: -2.227 ms

Below is generated by plot.py at 2019-12-11 05:08:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 61.383 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 61.383 ms
Loss rate: 1.33%

Run 3: Report of TCP BBR — Data Link

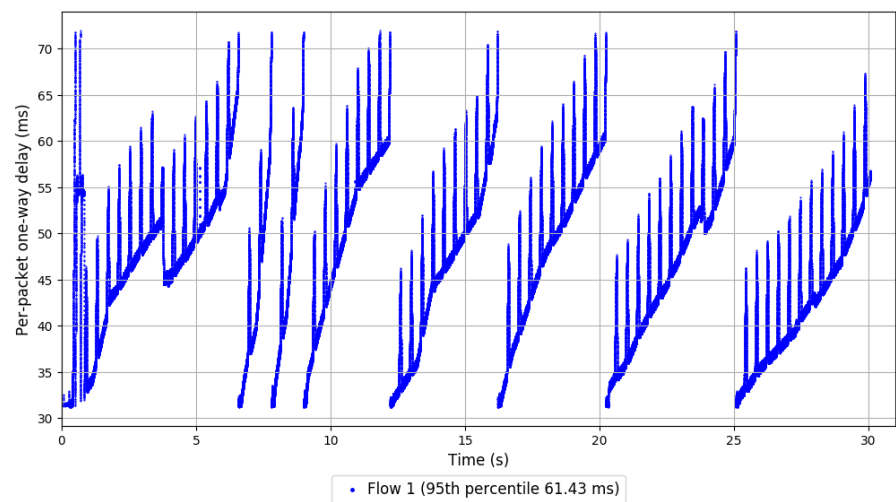
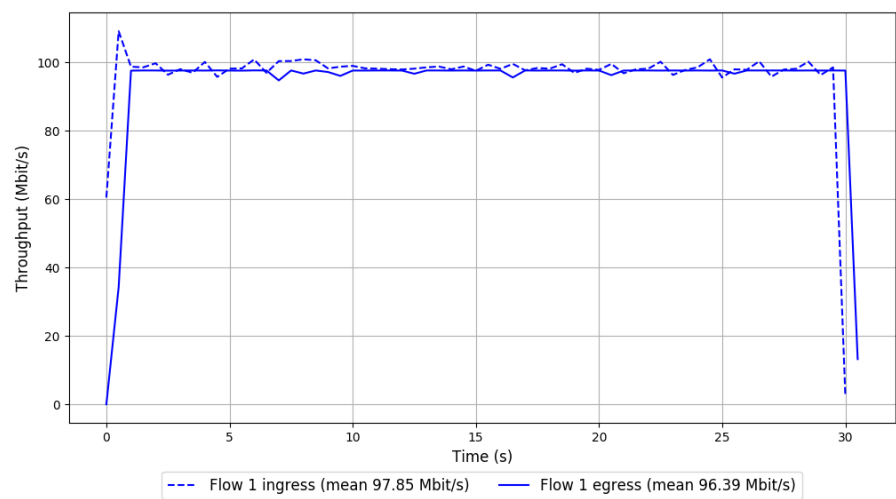


Run 4: Statistics of TCP BBR

Start at: 2019-12-11 04:20:19
End at: 2019-12-11 04:20:49
Local clock offset: 4.721 ms
Remote clock offset: -2.043 ms

Below is generated by plot.py at 2019-12-11 05:08:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.39 Mbit/s
95th percentile per-packet one-way delay: 61.427 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 96.39 Mbit/s
95th percentile per-packet one-way delay: 61.427 ms
Loss rate: 1.41%

Run 4: Report of TCP BBR — Data Link

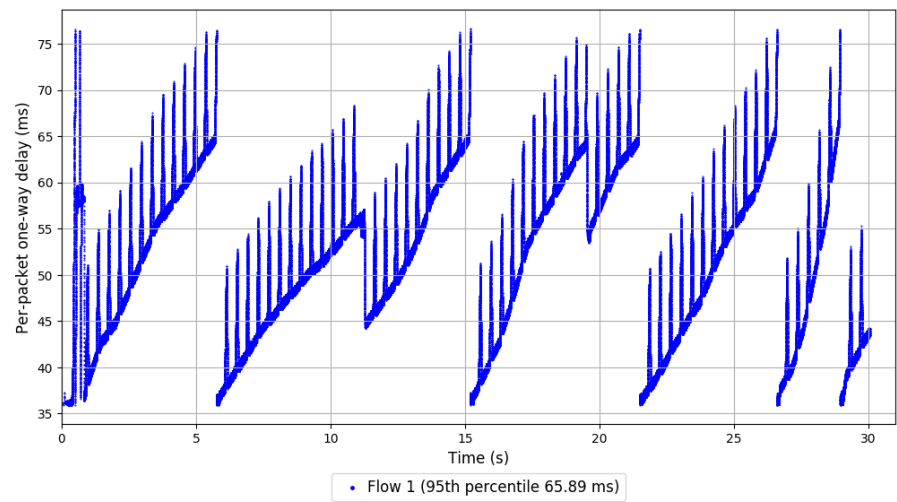
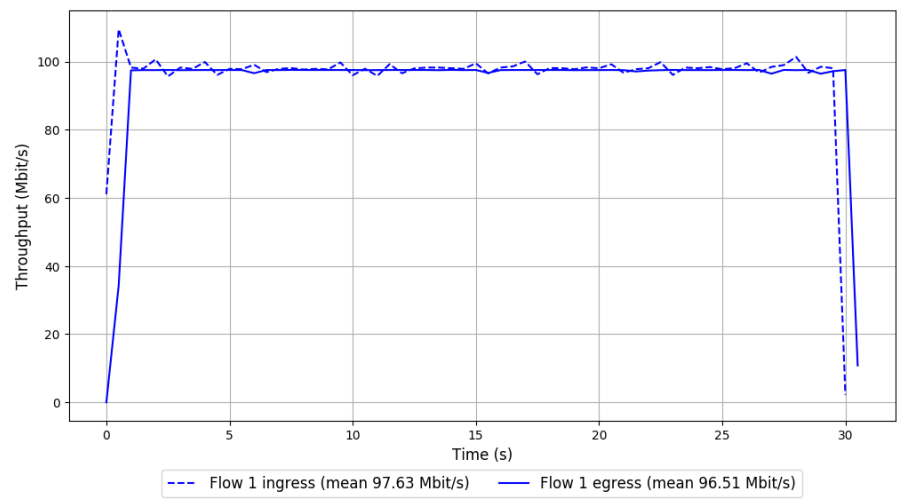


Run 5: Statistics of TCP BBR

Start at: 2019-12-11 04:49:09
End at: 2019-12-11 04:49:40
Local clock offset: -0.287 ms
Remote clock offset: -2.418 ms

Below is generated by plot.py at 2019-12-11 05:08:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.51 Mbit/s
95th percentile per-packet one-way delay: 65.890 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 96.51 Mbit/s
95th percentile per-packet one-way delay: 65.890 ms
Loss rate: 1.13%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-12-11 02:41:36

End at: 2019-12-11 02:42:06

Local clock offset: -0.528 ms

Remote clock offset: 1.331 ms

Below is generated by plot.py at 2019-12-11 05:08:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.65 Mbit/s

95th percentile per-packet one-way delay: 39.896 ms

Loss rate: 73.23%

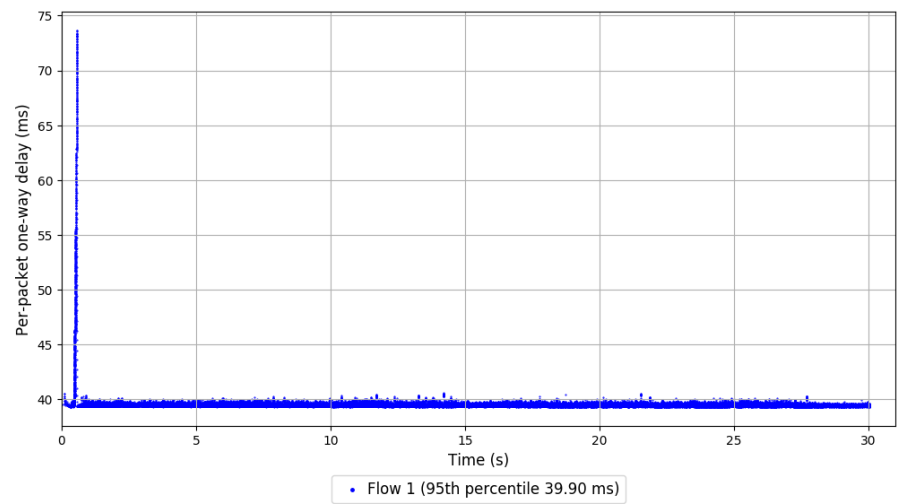
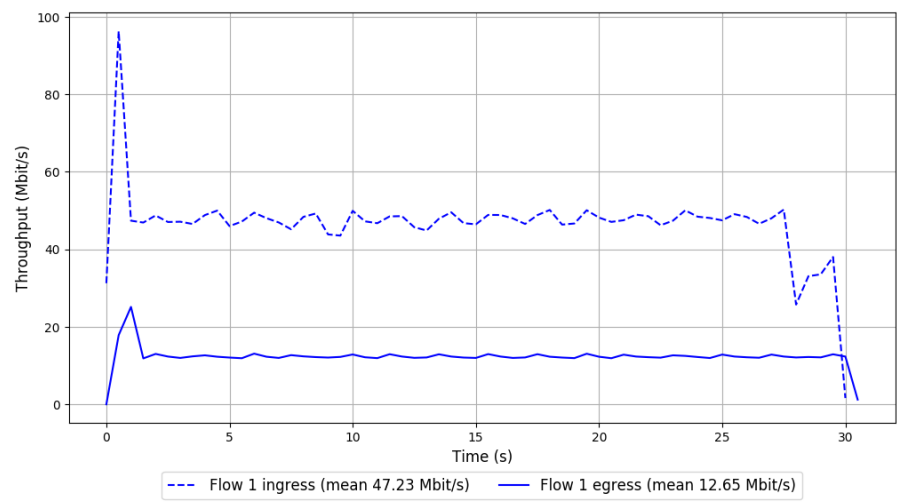
-- Flow 1:

Average throughput: 12.65 Mbit/s

95th percentile per-packet one-way delay: 39.896 ms

Loss rate: 73.23%

Run 1: Report of Copa — Data Link

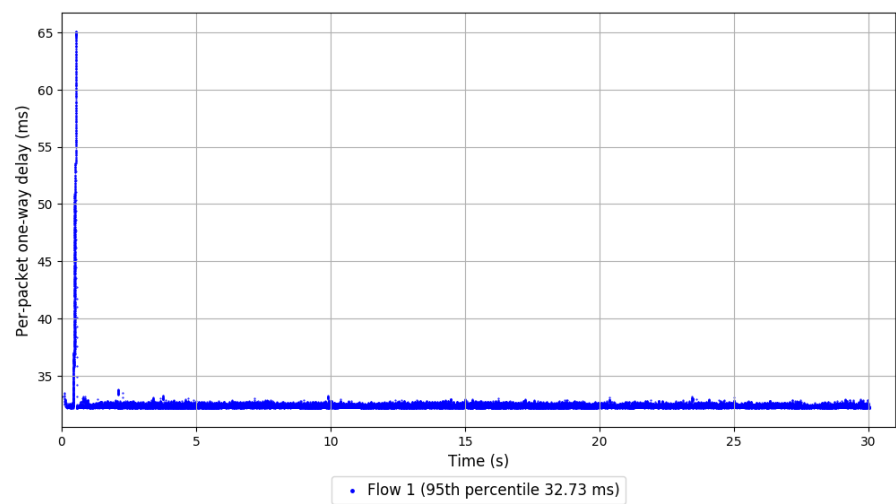
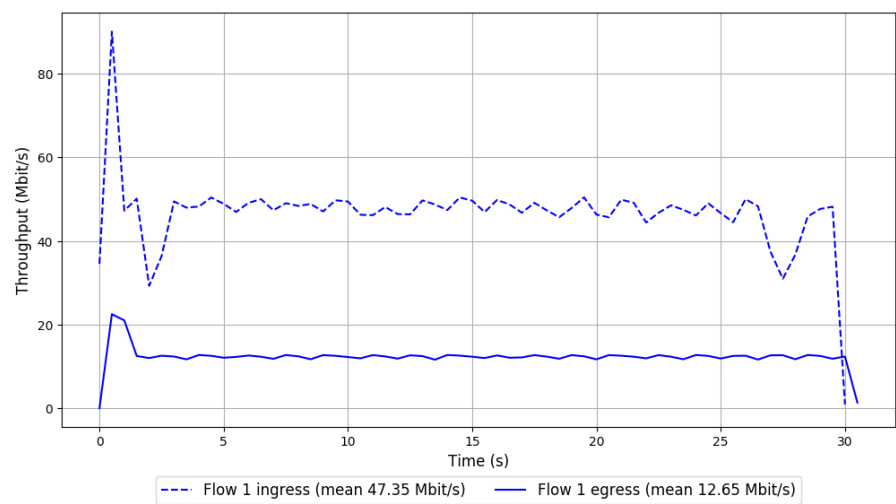


Run 2: Statistics of Copa

Start at: 2019-12-11 03:10:19
End at: 2019-12-11 03:10:49
Local clock offset: 4.415 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2019-12-11 05:08:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.65 Mbit/s
95th percentile per-packet one-way delay: 32.726 ms
Loss rate: 73.28%
-- Flow 1:
Average throughput: 12.65 Mbit/s
95th percentile per-packet one-way delay: 32.726 ms
Loss rate: 73.28%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-12-11 03:40:10

End at: 2019-12-11 03:40:40

Local clock offset: 4.743 ms

Remote clock offset: -0.15 ms

Below is generated by plot.py at 2019-12-11 05:08:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.65 Mbit/s

95th percentile per-packet one-way delay: 32.737 ms

Loss rate: 72.32%

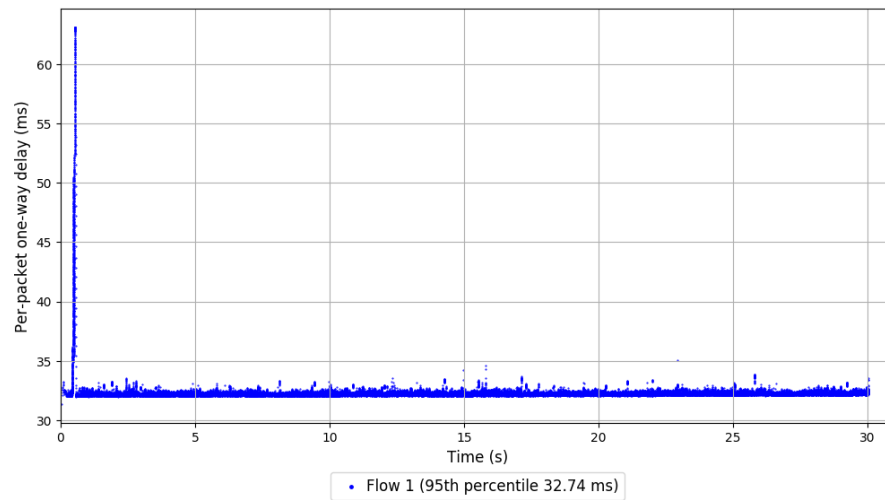
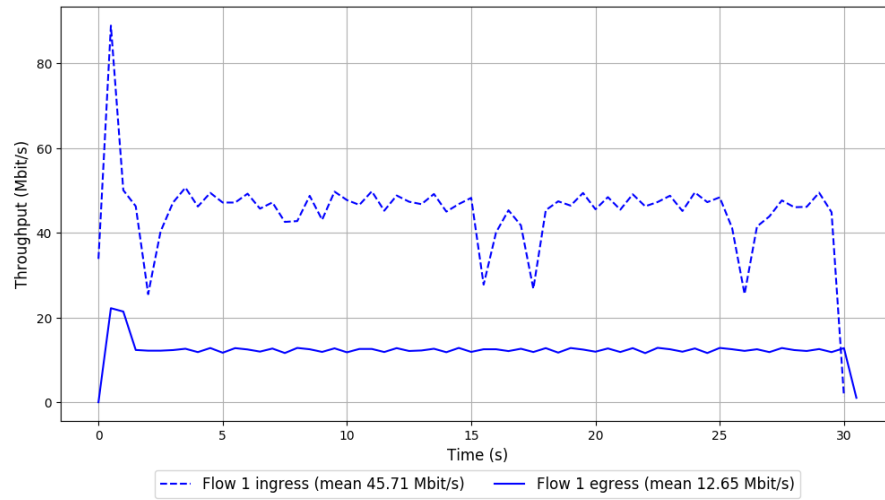
-- Flow 1:

Average throughput: 12.65 Mbit/s

95th percentile per-packet one-way delay: 32.737 ms

Loss rate: 72.32%

Run 3: Report of Copa — Data Link

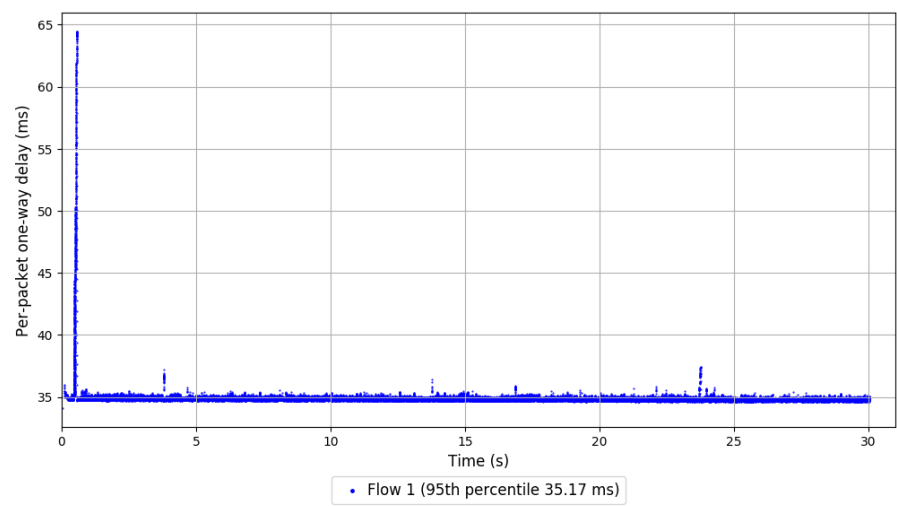
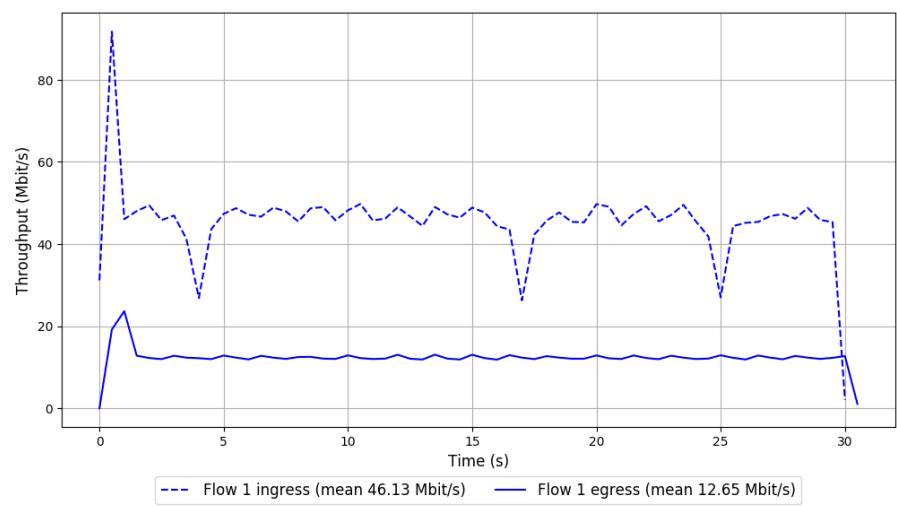


Run 4: Statistics of Copa

Start at: 2019-12-11 04:09:36
End at: 2019-12-11 04:10:06
Local clock offset: 3.321 ms
Remote clock offset: -1.502 ms

Below is generated by plot.py at 2019-12-11 05:08:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.65 Mbit/s
95th percentile per-packet one-way delay: 35.175 ms
Loss rate: 72.59%
-- Flow 1:
Average throughput: 12.65 Mbit/s
95th percentile per-packet one-way delay: 35.175 ms
Loss rate: 72.59%

Run 4: Report of Copa — Data Link

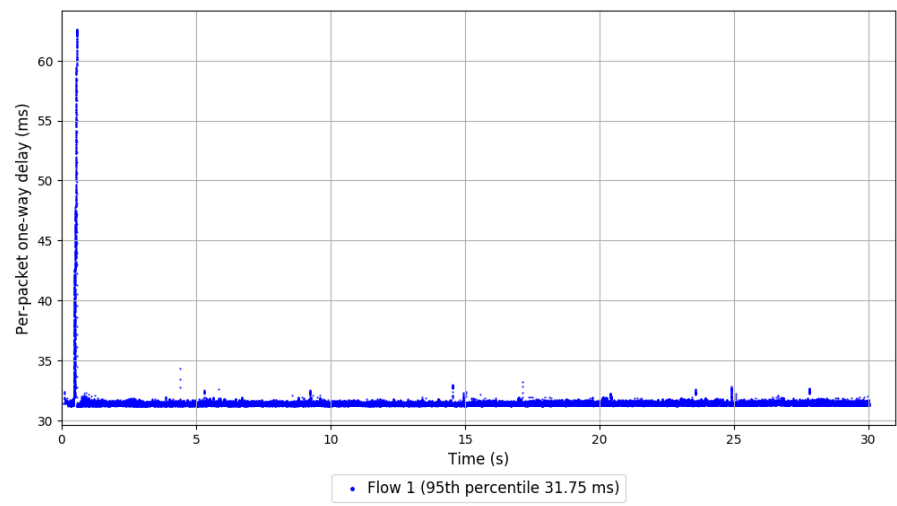
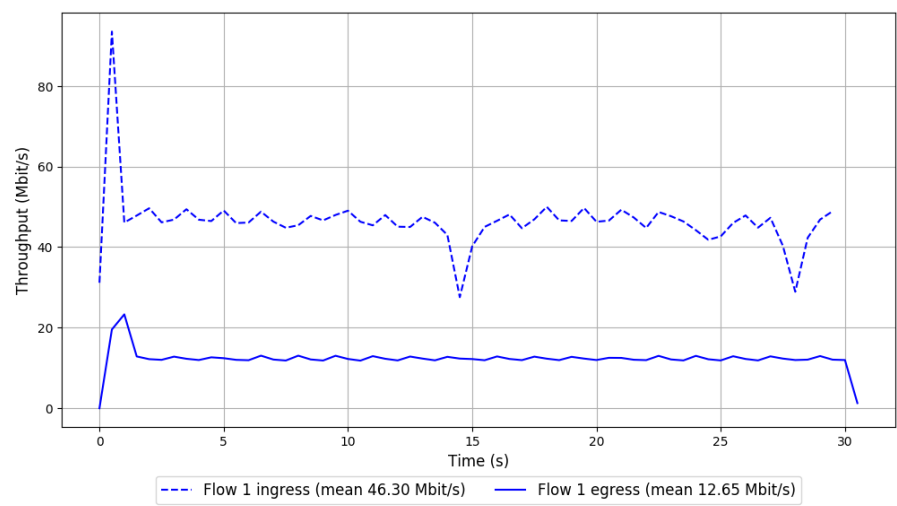


Run 5: Statistics of Copa

Start at: 2019-12-11 04:38:34
End at: 2019-12-11 04:39:04
Local clock offset: 3.701 ms
Remote clock offset: -2.997 ms

Below is generated by plot.py at 2019-12-11 05:08:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.65 Mbit/s
95th percentile per-packet one-way delay: 31.753 ms
Loss rate: 72.69%
-- Flow 1:
Average throughput: 12.65 Mbit/s
95th percentile per-packet one-way delay: 31.753 ms
Loss rate: 72.69%

Run 5: Report of Copa — Data Link

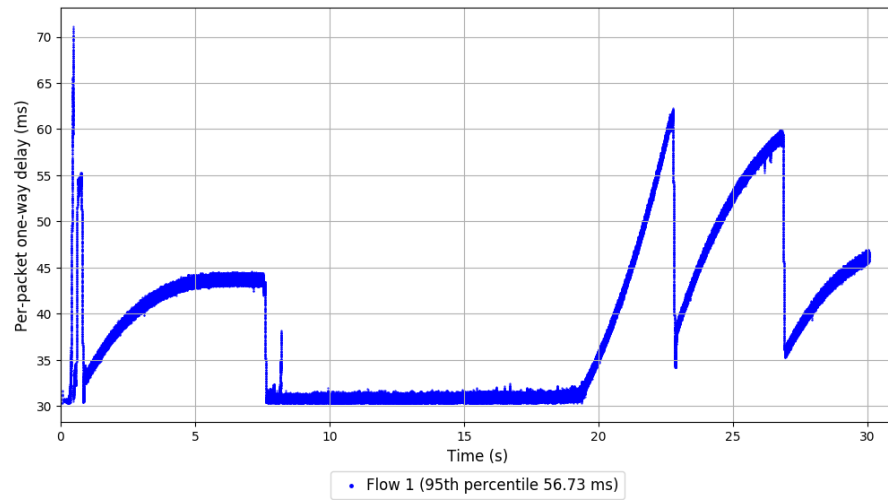
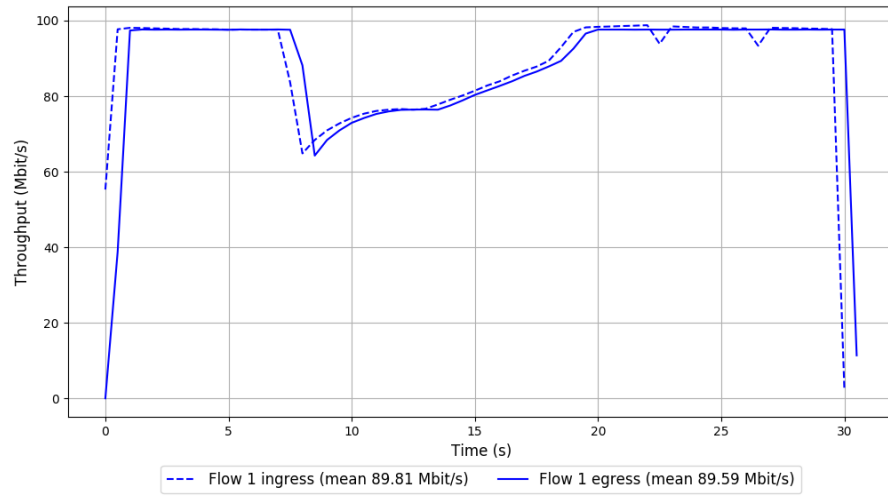


Run 1: Statistics of TCP Cubic

Start at: 2019-12-11 03:05:40
End at: 2019-12-11 03:06:10
Local clock offset: 5.102 ms
Remote clock offset: -1.314 ms

Below is generated by plot.py at 2019-12-11 05:09:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.59 Mbit/s
95th percentile per-packet one-way delay: 56.725 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 89.59 Mbit/s
95th percentile per-packet one-way delay: 56.725 ms
Loss rate: 0.20%

Run 1: Report of TCP Cubic — Data Link

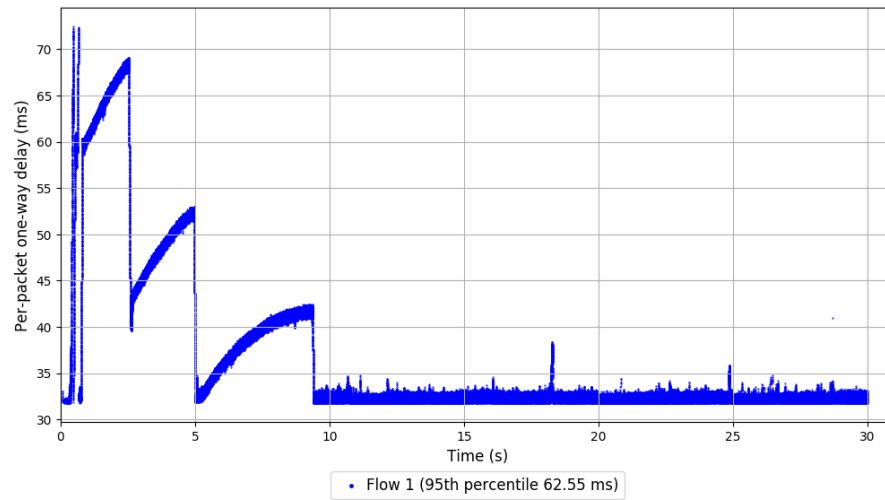
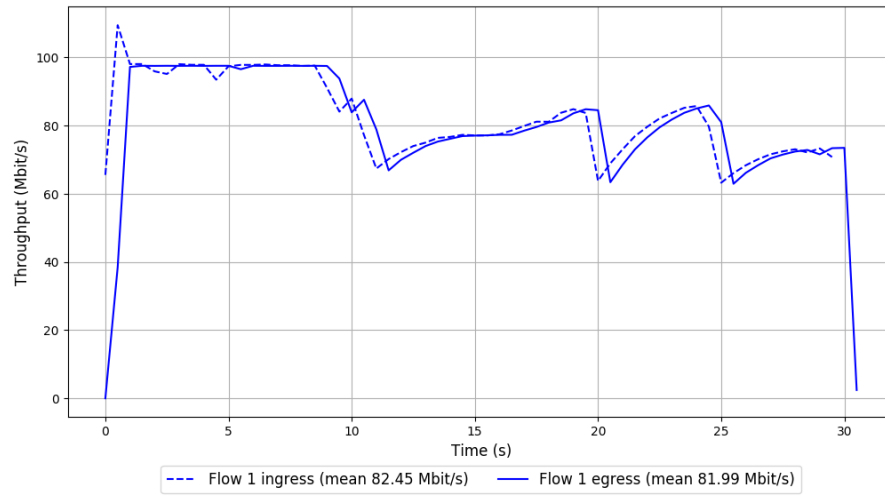


Run 2: Statistics of TCP Cubic

Start at: 2019-12-11 03:35:28
End at: 2019-12-11 03:35:58
Local clock offset: 4.197 ms
Remote clock offset: -0.397 ms

Below is generated by plot.py at 2019-12-11 05:09:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 81.99 Mbit/s
95th percentile per-packet one-way delay: 62.550 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 81.99 Mbit/s
95th percentile per-packet one-way delay: 62.550 ms
Loss rate: 0.57%

Run 2: Report of TCP Cubic — Data Link

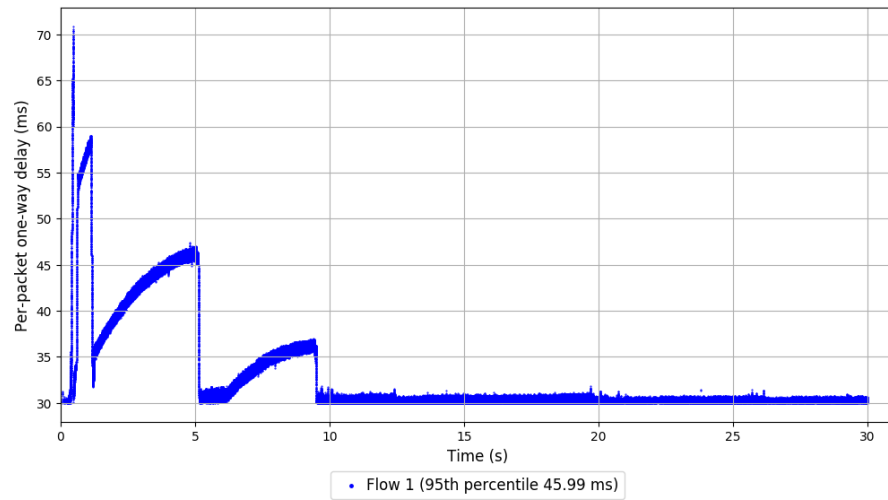
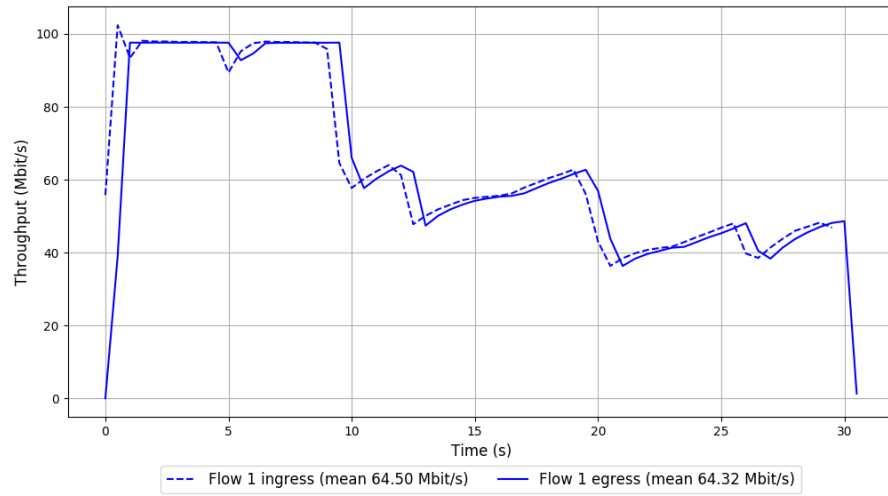


Run 3: Statistics of TCP Cubic

Start at: 2019-12-11 04:04:59
End at: 2019-12-11 04:05:29
Local clock offset: 6.765 ms
Remote clock offset: -1.268 ms

Below is generated by plot.py at 2019-12-11 05:09:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 64.32 Mbit/s
95th percentile per-packet one-way delay: 45.988 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 64.32 Mbit/s
95th percentile per-packet one-way delay: 45.988 ms
Loss rate: 0.28%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-12-11 04:33:54

End at: 2019-12-11 04:34:24

Local clock offset: 4.733 ms

Remote clock offset: 0.359 ms

Below is generated by plot.py at 2019-12-11 05:09:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.15 Mbit/s

95th percentile per-packet one-way delay: 68.037 ms

Loss rate: 0.69%

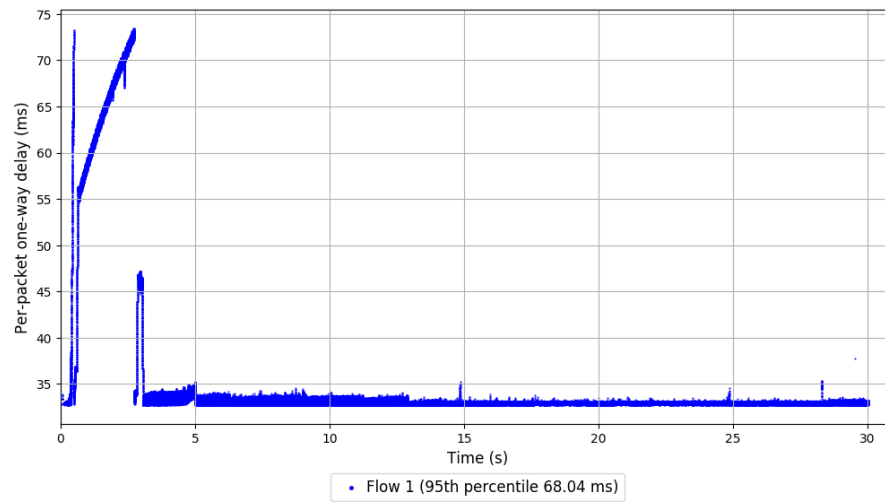
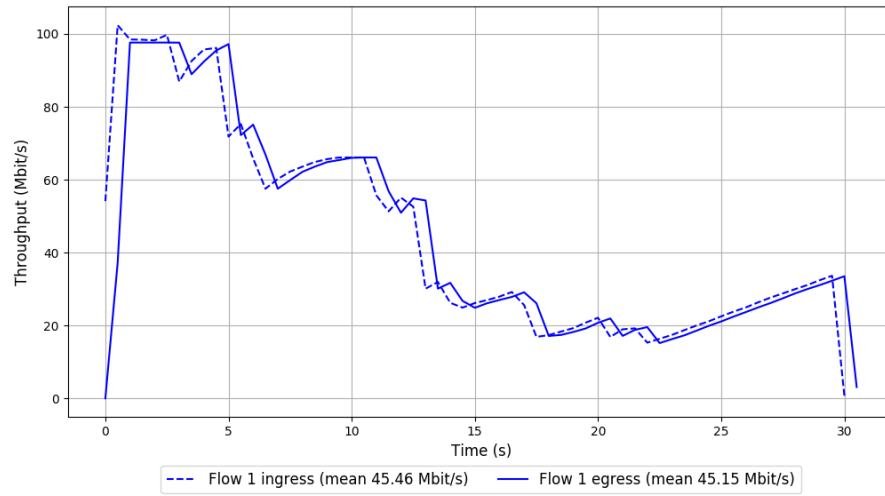
-- Flow 1:

Average throughput: 45.15 Mbit/s

95th percentile per-packet one-way delay: 68.037 ms

Loss rate: 0.69%

Run 4: Report of TCP Cubic — Data Link

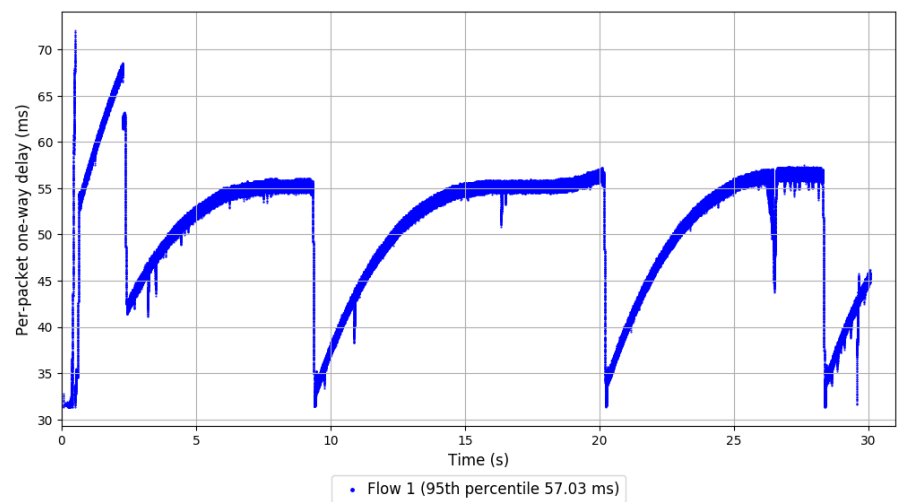
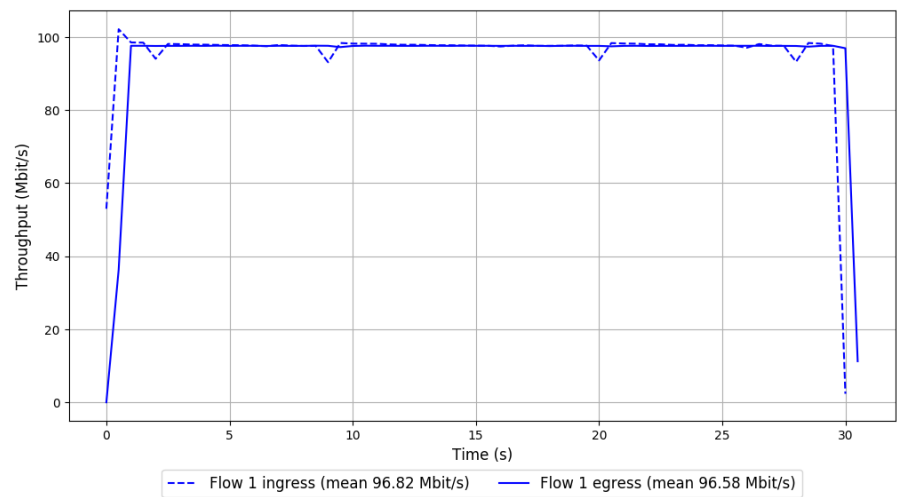


Run 5: Statistics of TCP Cubic

Start at: 2019-12-11 05:02:41
End at: 2019-12-11 05:03:11
Local clock offset: 4.798 ms
Remote clock offset: -3.348 ms

Below is generated by plot.py at 2019-12-11 05:09:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.58 Mbit/s
95th percentile per-packet one-way delay: 57.027 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 96.58 Mbit/s
95th percentile per-packet one-way delay: 57.027 ms
Loss rate: 0.19%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-12-11 02:47:24

End at: 2019-12-11 02:47:54

Local clock offset: 4.686 ms

Remote clock offset: 1.199 ms

Below is generated by plot.py at 2019-12-11 05:10:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 42.391 ms

Loss rate: 0.53%

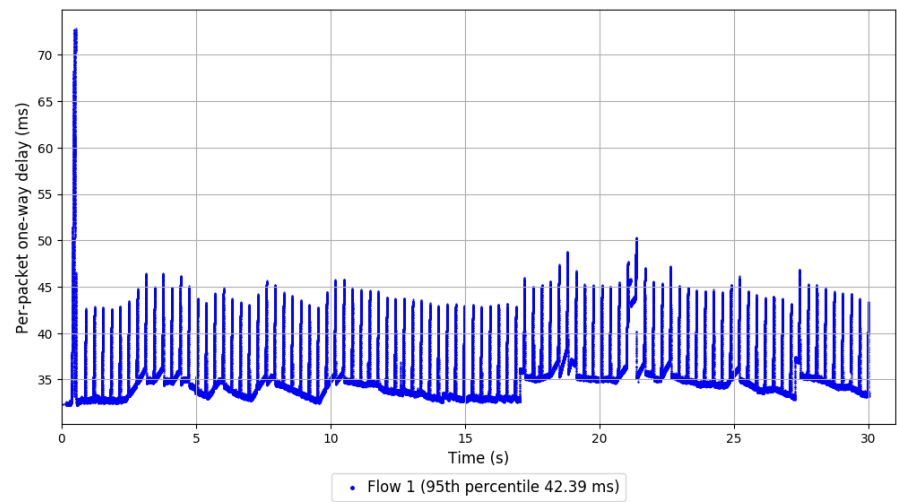
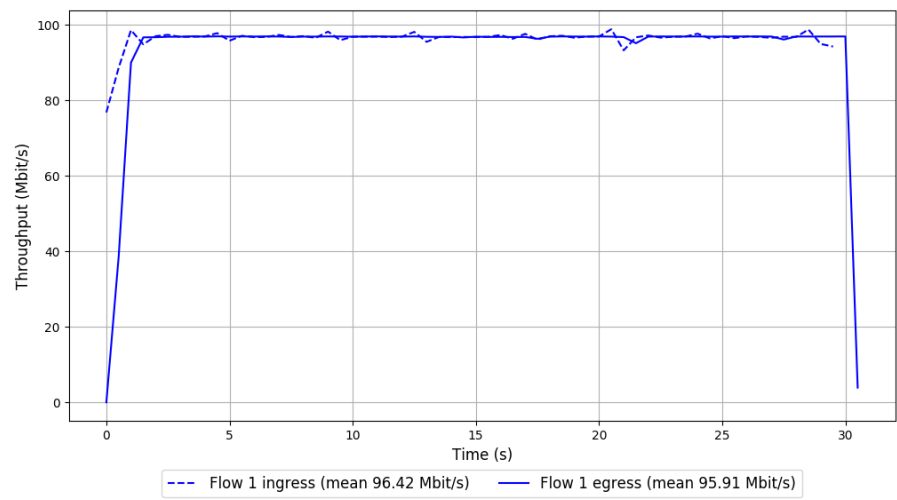
-- Flow 1:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 42.391 ms

Loss rate: 0.53%

Run 1: Report of FillP — Data Link

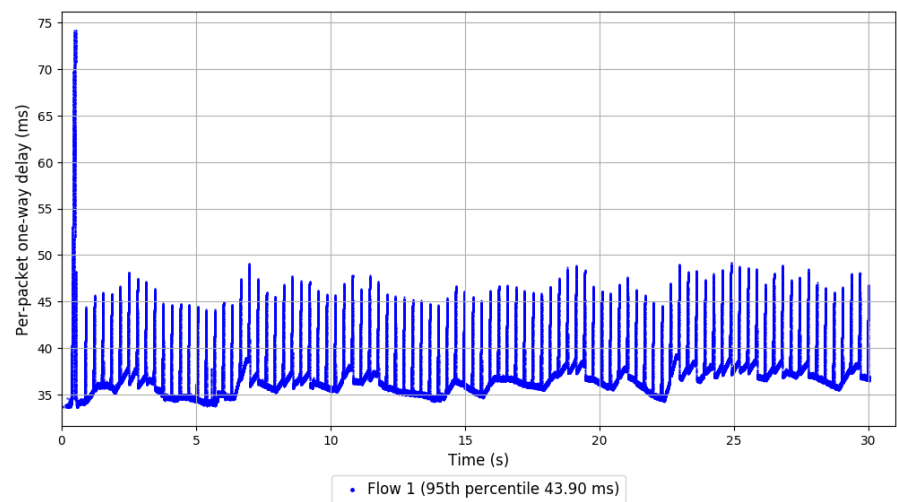
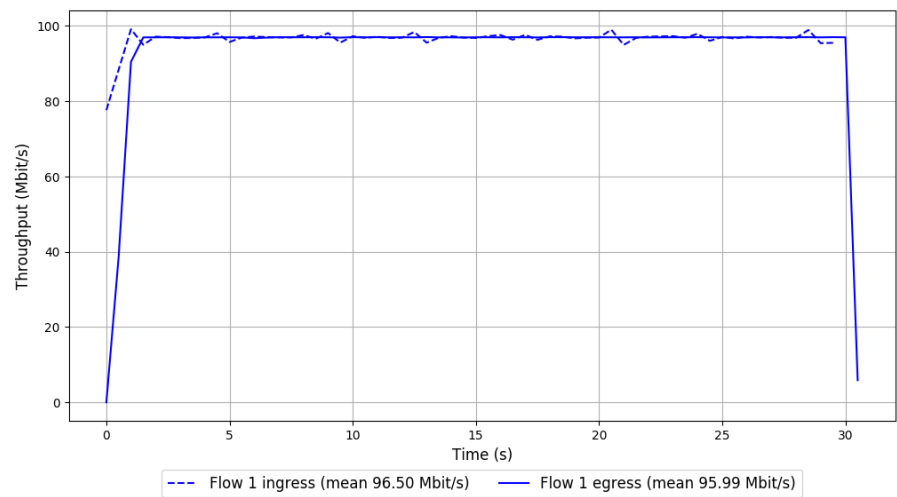


Run 2: Statistics of FillP

Start at: 2019-12-11 03:16:10
End at: 2019-12-11 03:16:40
Local clock offset: 0.469 ms
Remote clock offset: -2.345 ms

Below is generated by plot.py at 2019-12-11 05:10:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.99 Mbit/s
95th percentile per-packet one-way delay: 43.902 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 95.99 Mbit/s
95th percentile per-packet one-way delay: 43.902 ms
Loss rate: 0.52%

Run 2: Report of FillP — Data Link

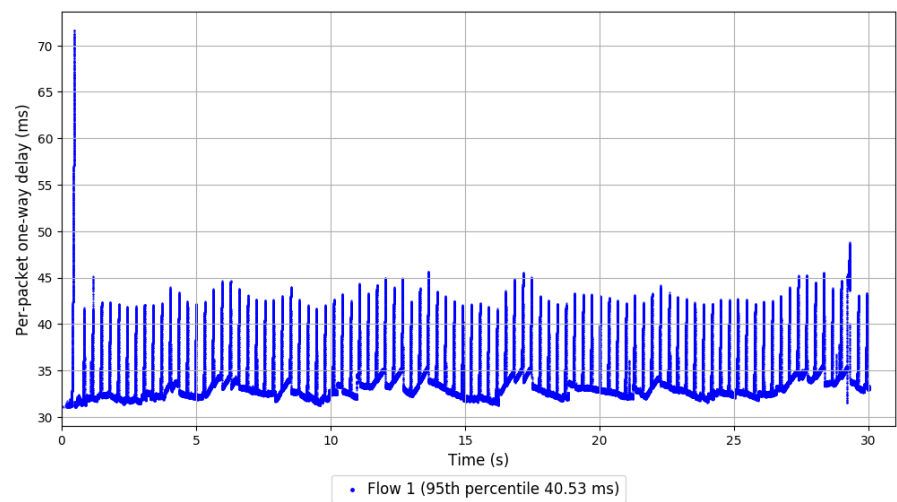
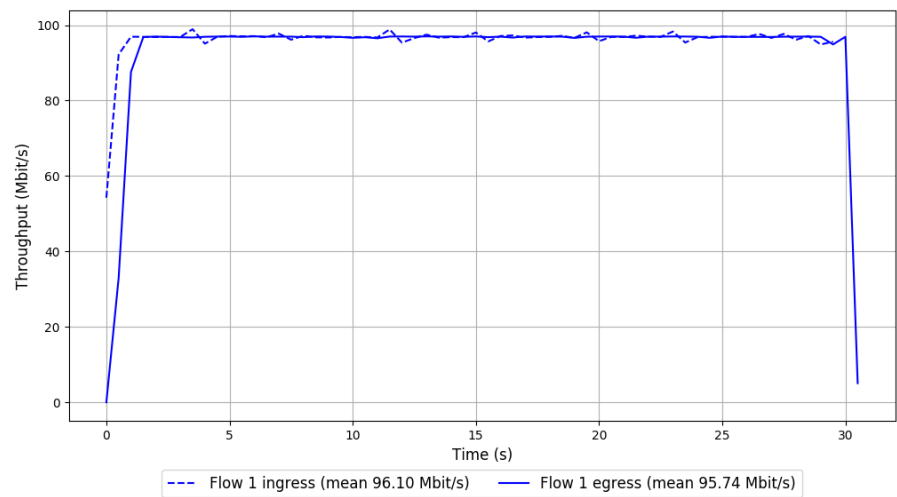


Run 3: Statistics of FillP

Start at: 2019-12-11 03:45:59
End at: 2019-12-11 03:46:29
Local clock offset: 5.622 ms
Remote clock offset: -1.613 ms

Below is generated by plot.py at 2019-12-11 05:10:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.74 Mbit/s
95th percentile per-packet one-way delay: 40.526 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 95.74 Mbit/s
95th percentile per-packet one-way delay: 40.526 ms
Loss rate: 0.36%

Run 3: Report of FillP — Data Link

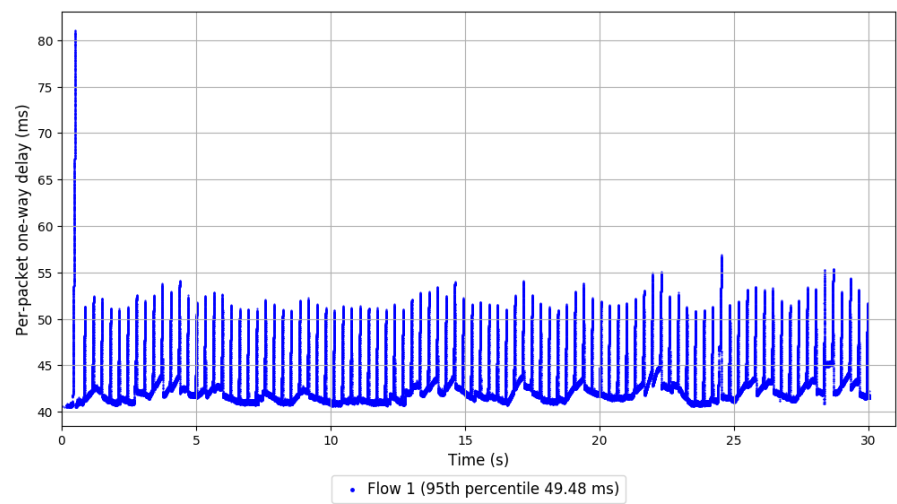
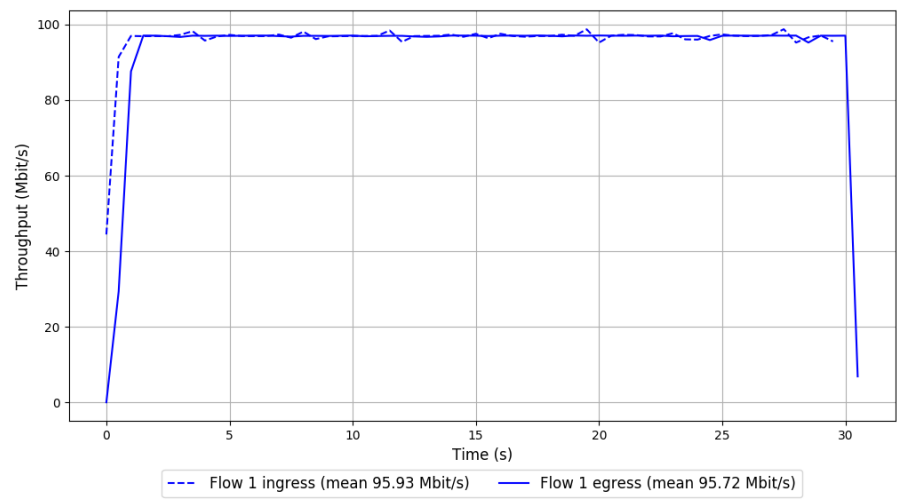


Run 4: Statistics of FillP

Start at: 2019-12-11 04:15:23
End at: 2019-12-11 04:15:53
Local clock offset: 3.118 ms
Remote clock offset: -1.925 ms

Below is generated by plot.py at 2019-12-11 05:10:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.72 Mbit/s
95th percentile per-packet one-way delay: 49.480 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 95.72 Mbit/s
95th percentile per-packet one-way delay: 49.480 ms
Loss rate: 0.22%

Run 4: Report of FillP — Data Link

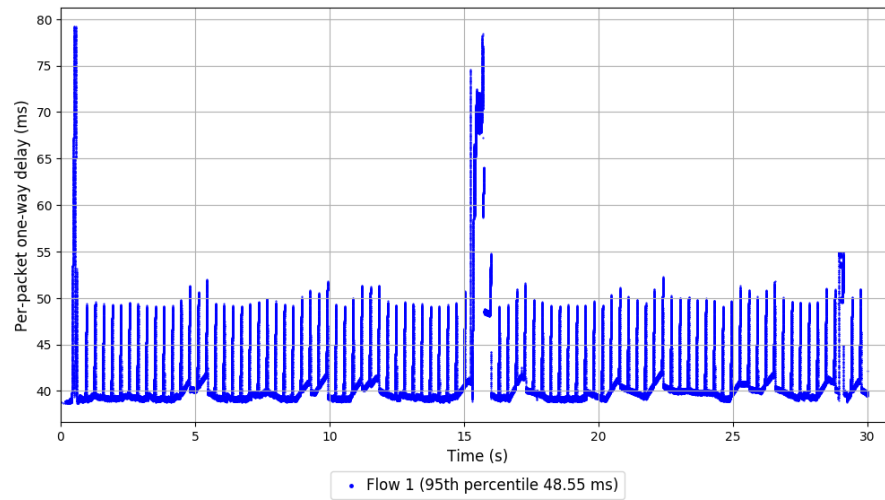
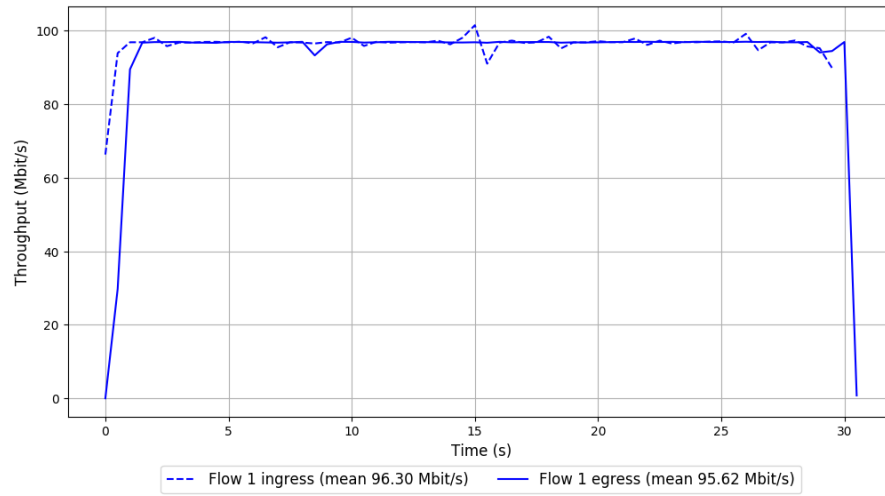


Run 5: Statistics of FillP

Start at: 2019-12-11 04:44:25
End at: 2019-12-11 04:44:55
Local clock offset: 4.21 ms
Remote clock offset: -2.593 ms

Below is generated by plot.py at 2019-12-11 05:10:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 48.555 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 48.555 ms
Loss rate: 0.69%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-12-11 02:59:32

End at: 2019-12-11 03:00:02

Local clock offset: 0.793 ms

Remote clock offset: -2.141 ms

Below is generated by plot.py at 2019-12-11 05:10:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.91 Mbit/s

95th percentile per-packet one-way delay: 38.358 ms

Loss rate: 0.47%

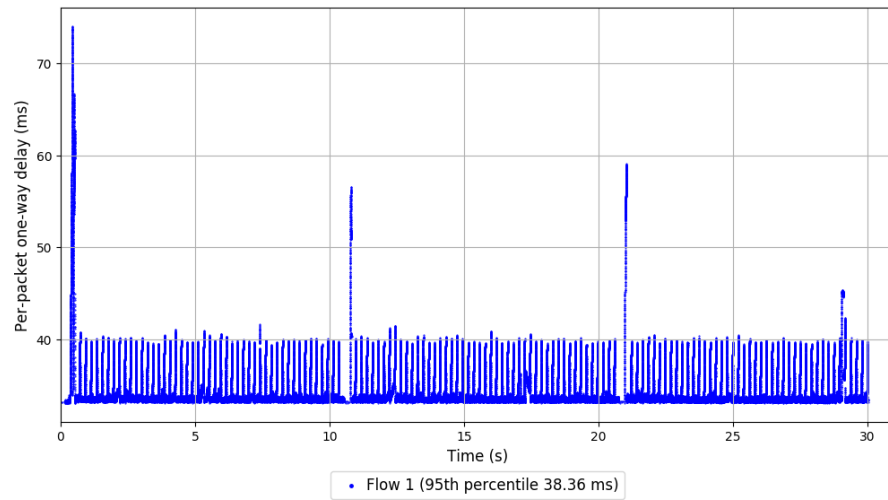
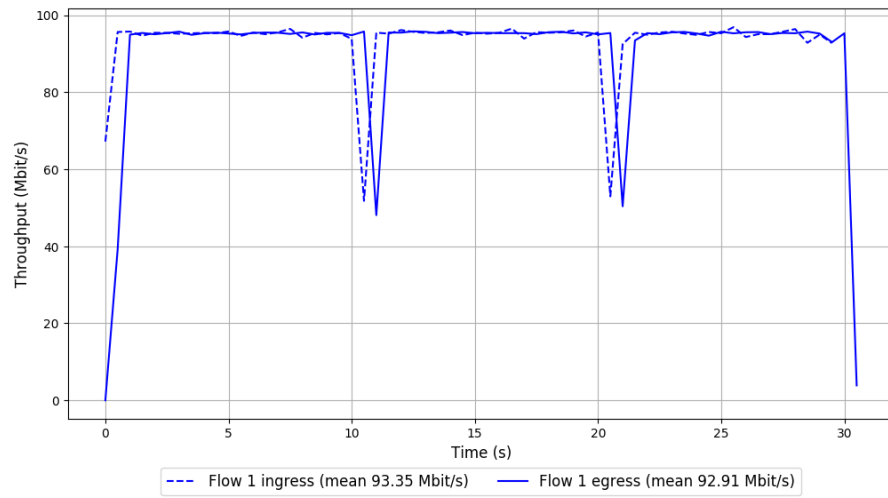
-- Flow 1:

Average throughput: 92.91 Mbit/s

95th percentile per-packet one-way delay: 38.358 ms

Loss rate: 0.47%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-12-11 03:29:04

End at: 2019-12-11 03:29:34

Local clock offset: 0.496 ms

Remote clock offset: -2.206 ms

Below is generated by plot.py at 2019-12-11 05:10:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.31 Mbit/s

95th percentile per-packet one-way delay: 38.843 ms

Loss rate: 0.42%

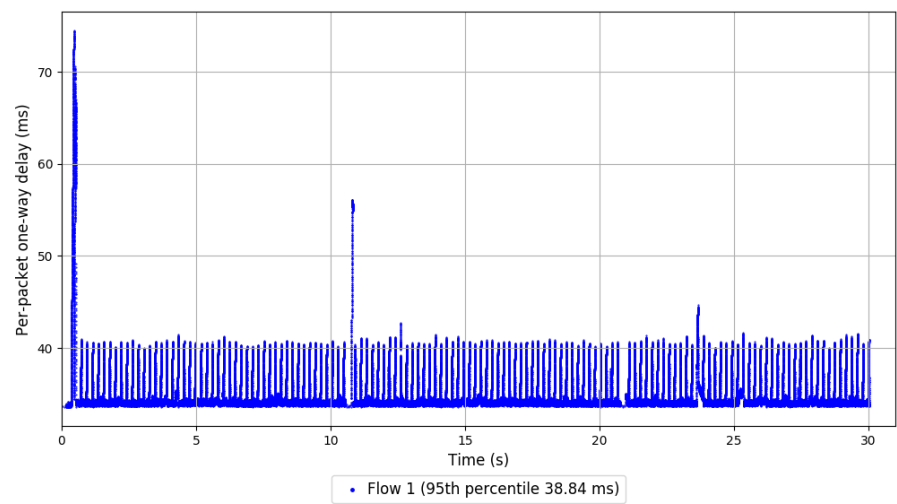
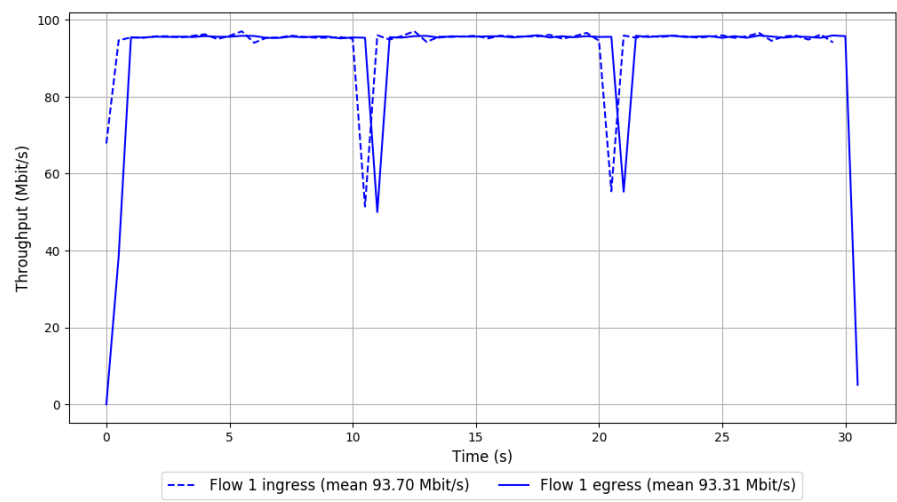
-- Flow 1:

Average throughput: 93.31 Mbit/s

95th percentile per-packet one-way delay: 38.843 ms

Loss rate: 0.42%

Run 2: Report of FillP-Sheep — Data Link

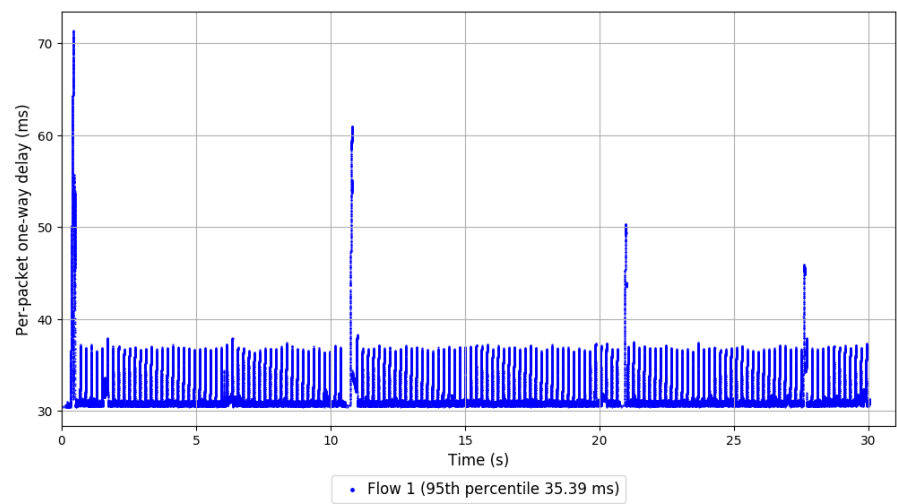
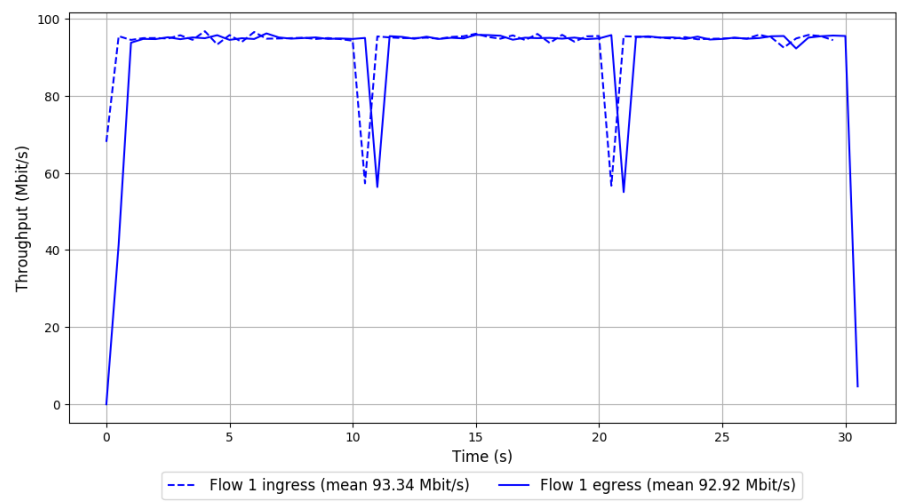


Run 3: Statistics of FillP-Sheep

Start at: 2019-12-11 03:58:29
End at: 2019-12-11 03:58:59
Local clock offset: 6.121 ms
Remote clock offset: -2.612 ms

Below is generated by plot.py at 2019-12-11 05:11:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.92 Mbit/s
95th percentile per-packet one-way delay: 35.387 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 92.92 Mbit/s
95th percentile per-packet one-way delay: 35.387 ms
Loss rate: 0.45%

Run 3: Report of FillP-Sheep — Data Link

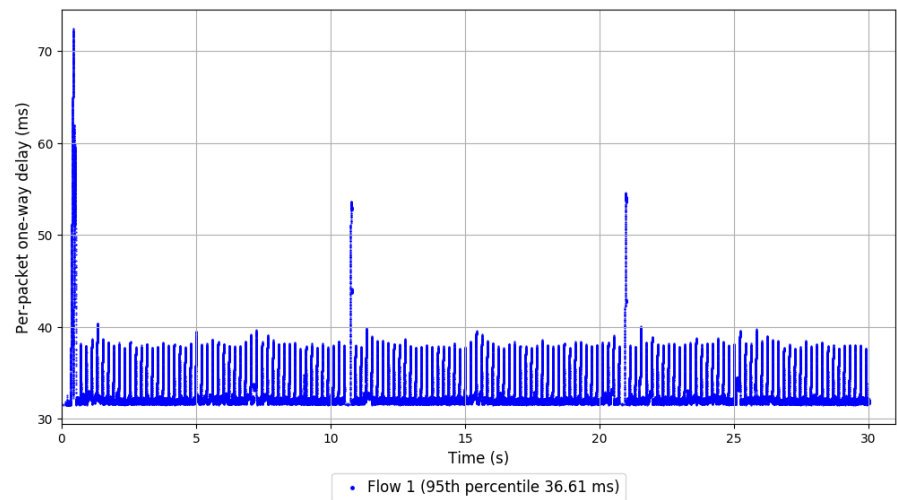
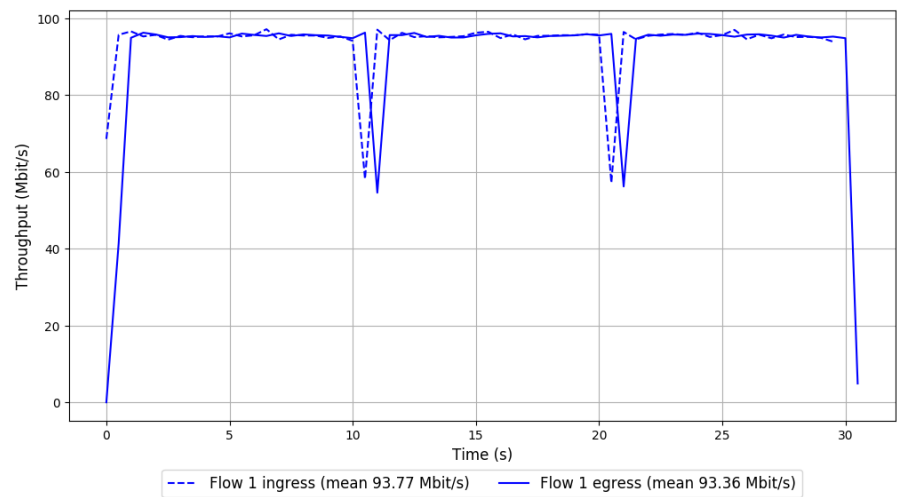


Run 4: Statistics of FillP-Sheep

Start at: 2019-12-11 04:27:48
End at: 2019-12-11 04:28:18
Local clock offset: 4.898 ms
Remote clock offset: -1.704 ms

Below is generated by plot.py at 2019-12-11 05:11:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.36 Mbit/s
95th percentile per-packet one-way delay: 36.608 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 93.36 Mbit/s
95th percentile per-packet one-way delay: 36.608 ms
Loss rate: 0.45%

Run 4: Report of FillP-Sheep — Data Link

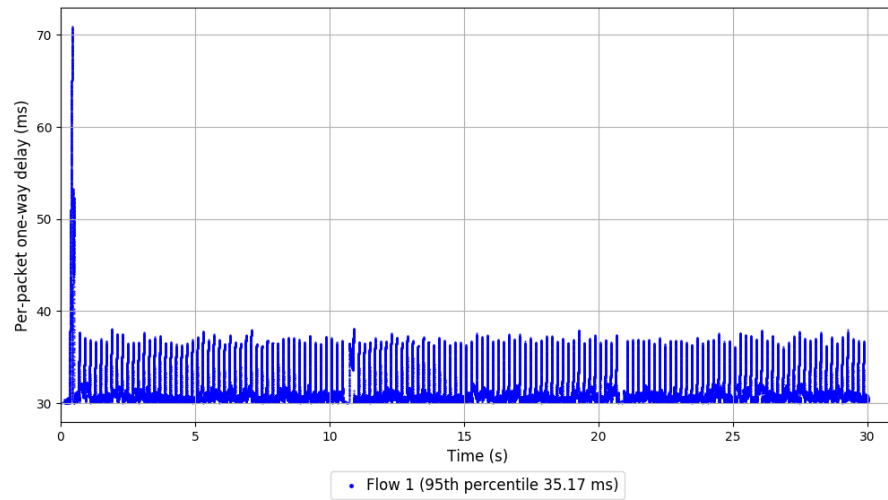
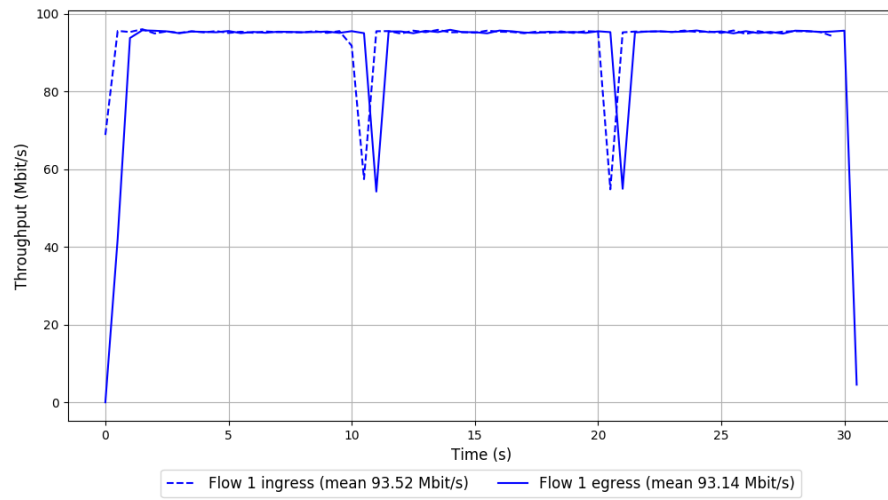


Run 5: Statistics of FillP-Sheep

Start at: 2019-12-11 04:56:36
End at: 2019-12-11 04:57:06
Local clock offset: 4.898 ms
Remote clock offset: -3.499 ms

Below is generated by plot.py at 2019-12-11 05:11:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.14 Mbit/s
95th percentile per-packet one-way delay: 35.171 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 93.14 Mbit/s
95th percentile per-packet one-way delay: 35.171 ms
Loss rate: 0.41%

Run 5: Report of FillP-Sheep — Data Link

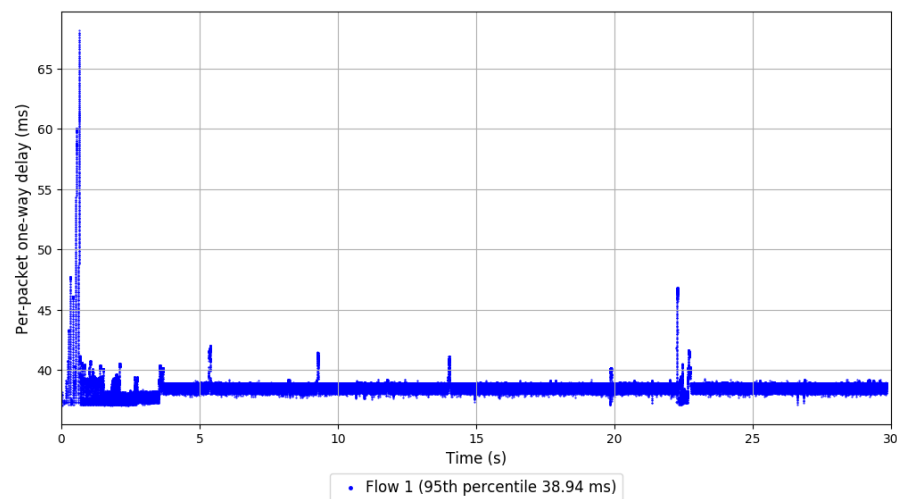
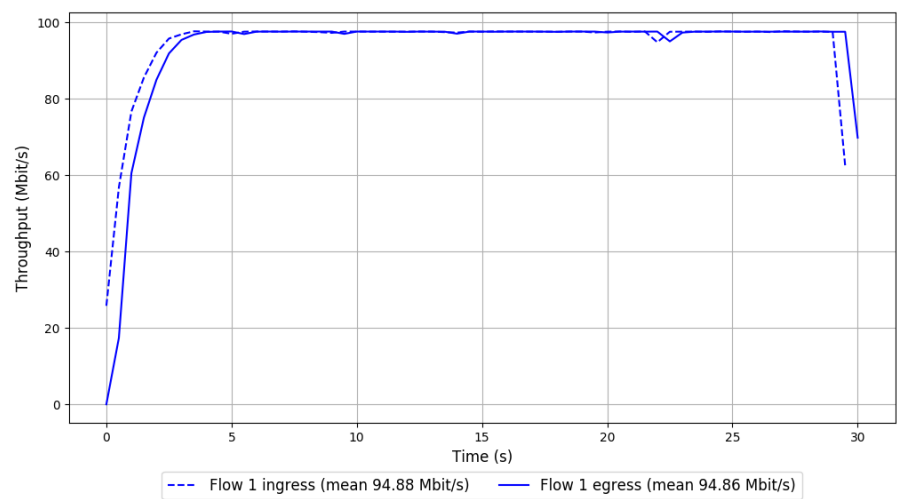


```
Run 1: Statistics of Indigo

Start at: 2019-12-11 03:04:24
End at: 2019-12-11 03:04:54
Local clock offset: 1.875 ms
Remote clock offset: 1.426 ms

# Below is generated by plot.py at 2019-12-11 05:11:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.86 Mbit/s
95th percentile per-packet one-way delay: 38.943 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 94.86 Mbit/s
95th percentile per-packet one-way delay: 38.943 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo — Data Link

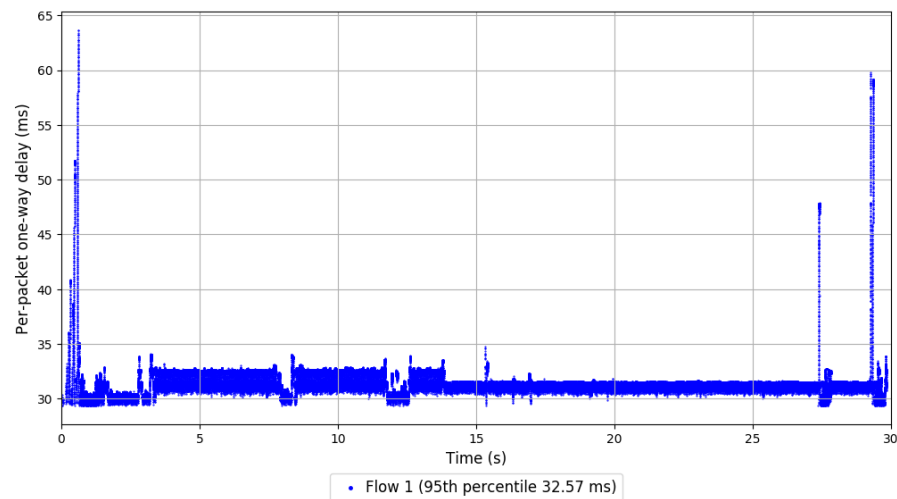
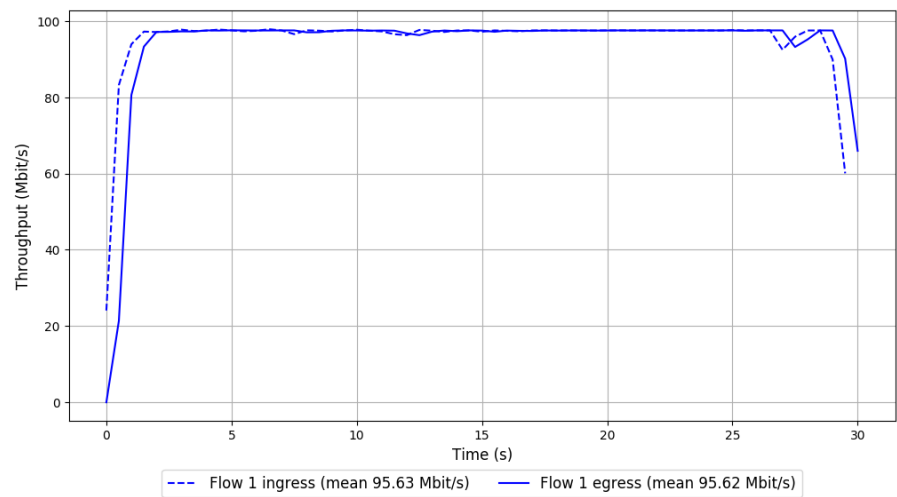


Run 2: Statistics of Indigo

Start at: 2019-12-11 03:34:07
End at: 2019-12-11 03:34:37
Local clock offset: 4.73 ms
Remote clock offset: -2.269 ms

Below is generated by plot.py at 2019-12-11 05:11:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 32.574 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 32.574 ms
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

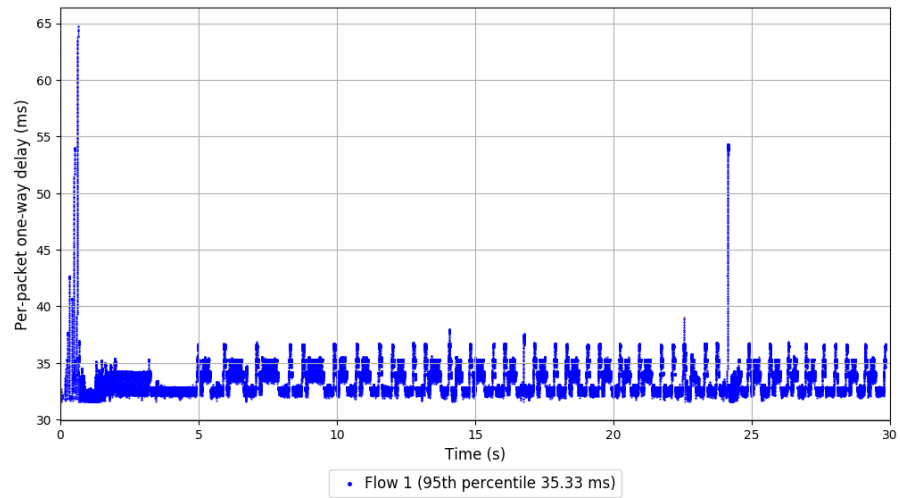
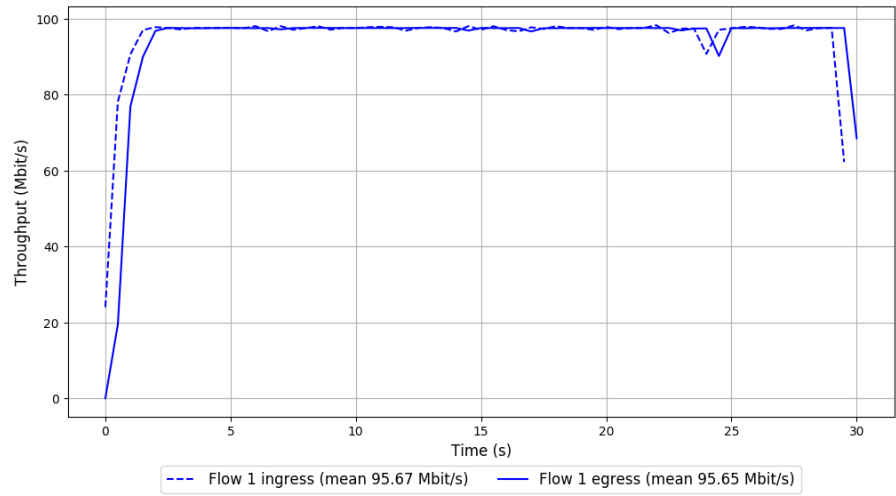


Run 3: Statistics of Indigo

Start at: 2019-12-11 04:03:35
End at: 2019-12-11 04:04:05
Local clock offset: 6.37 ms
Remote clock offset: -1.502 ms

Below is generated by plot.py at 2019-12-11 05:11:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 35.326 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 35.326 ms
Loss rate: 0.01%

Run 3: Report of Indigo — Data Link

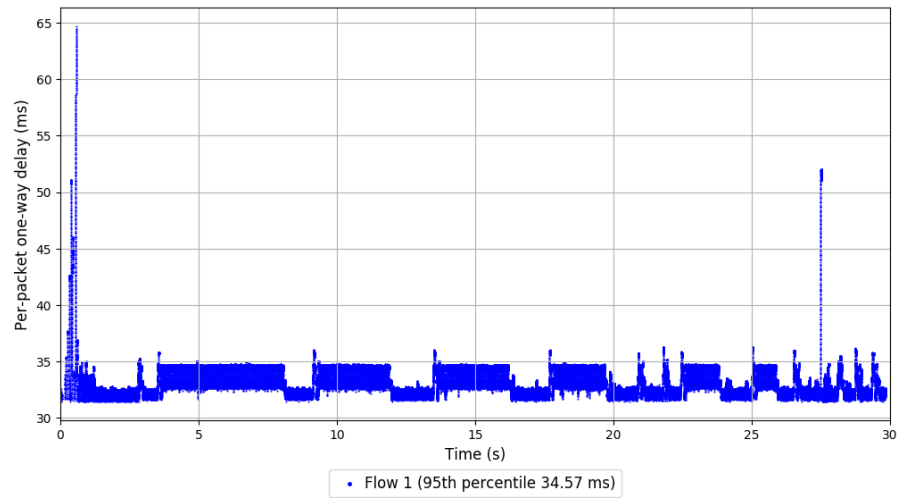
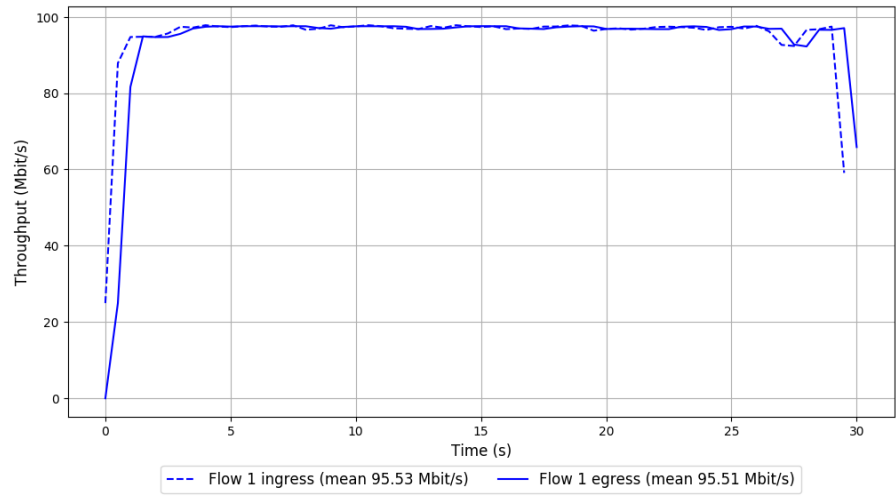


Run 4: Statistics of Indigo

Start at: 2019-12-11 04:32:34
End at: 2019-12-11 04:33:04
Local clock offset: 4.724 ms
Remote clock offset: -0.854 ms

Below is generated by plot.py at 2019-12-11 05:11:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.51 Mbit/s
95th percentile per-packet one-way delay: 34.571 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 95.51 Mbit/s
95th percentile per-packet one-way delay: 34.571 ms
Loss rate: 0.02%

Run 4: Report of Indigo — Data Link

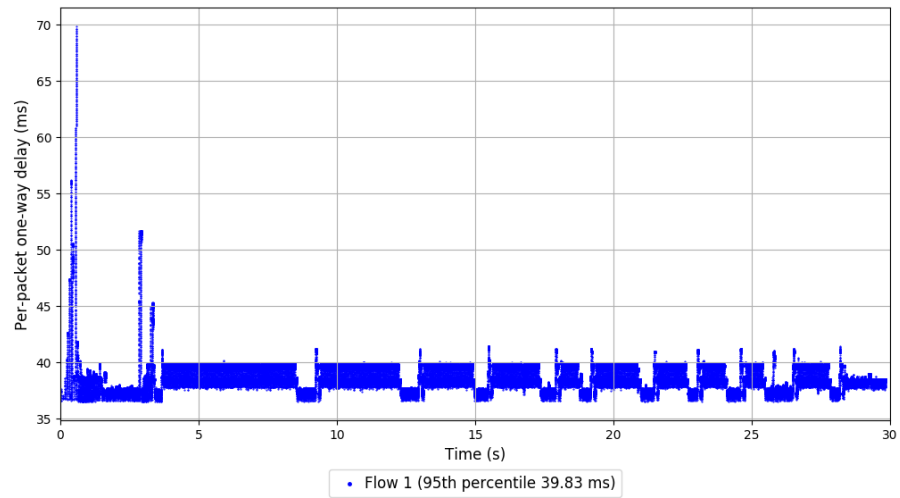
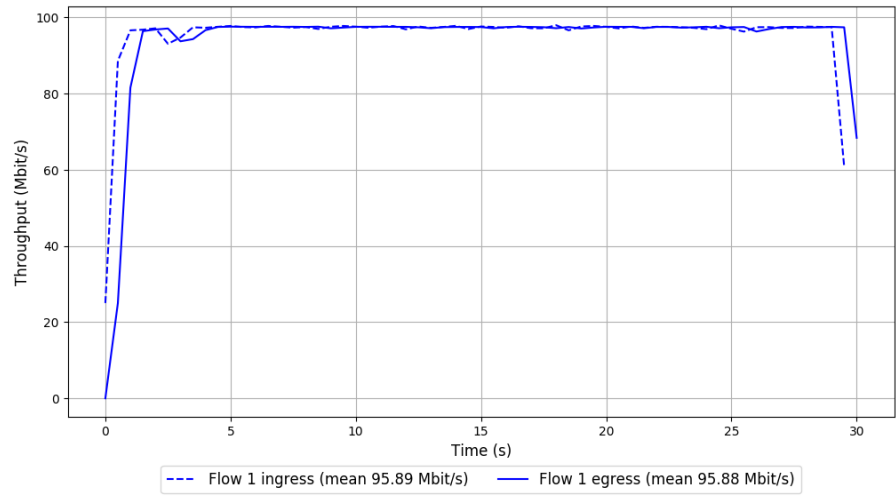


Run 5: Statistics of Indigo

Start at: 2019-12-11 05:01:28
End at: 2019-12-11 05:01:58
Local clock offset: 0.351 ms
Remote clock offset: -1.905 ms

Below is generated by plot.py at 2019-12-11 05:11:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.88 Mbit/s
95th percentile per-packet one-way delay: 39.826 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.88 Mbit/s
95th percentile per-packet one-way delay: 39.826 ms
Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

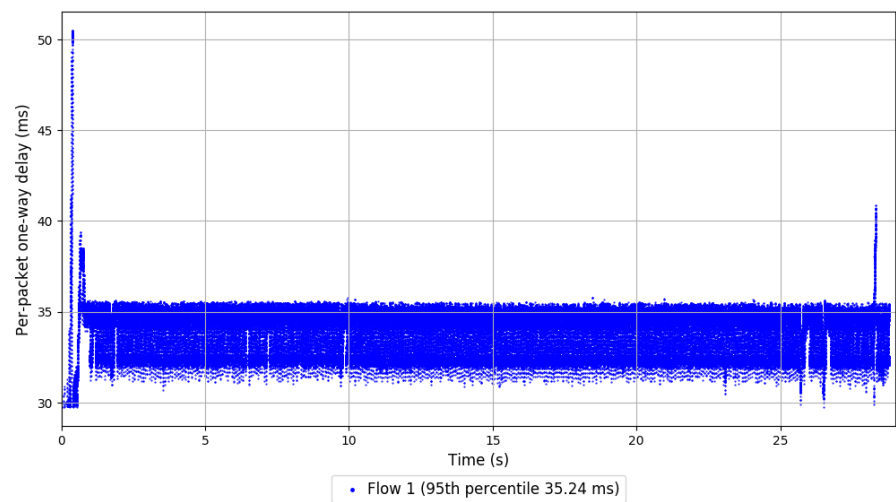
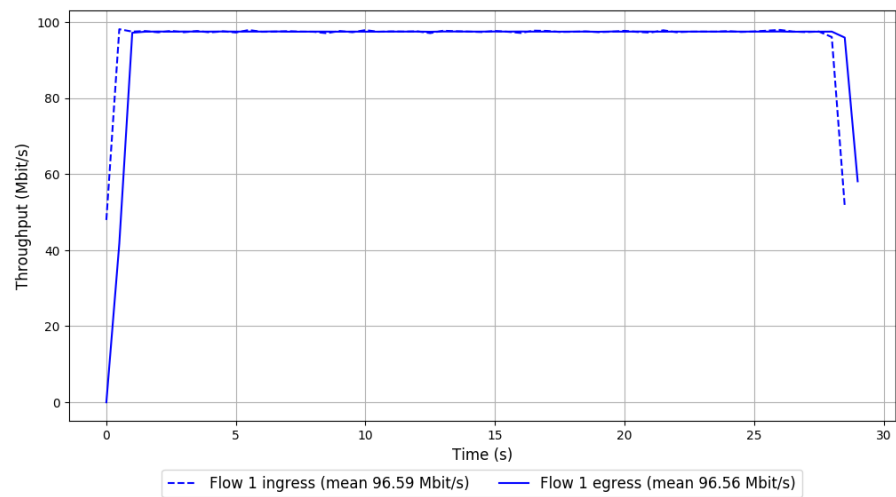


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-12-11 02:57:08
End at: 2019-12-11 02:57:38
Local clock offset: 6.347 ms
Remote clock offset: -1.958 ms

Below is generated by plot.py at 2019-12-11 05:12:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 35.242 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 35.242 ms
Loss rate: 0.03%

Run 1: Report of Indigo-MusesC3 — Data Link

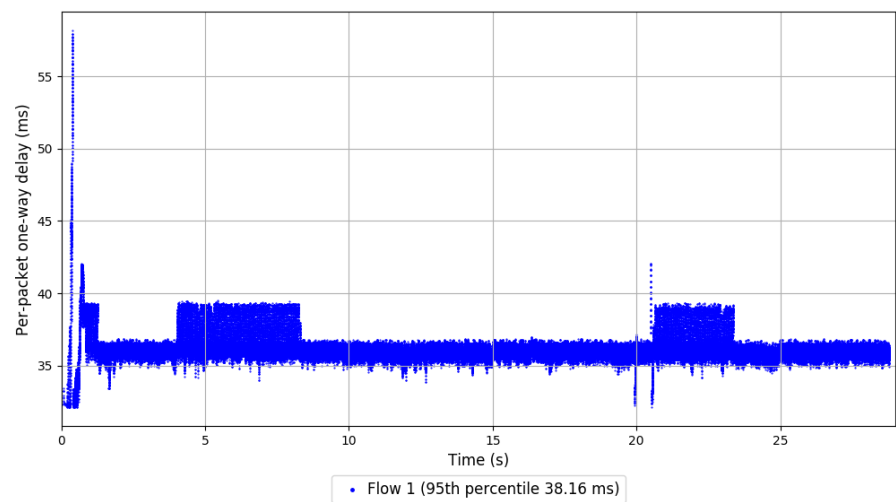
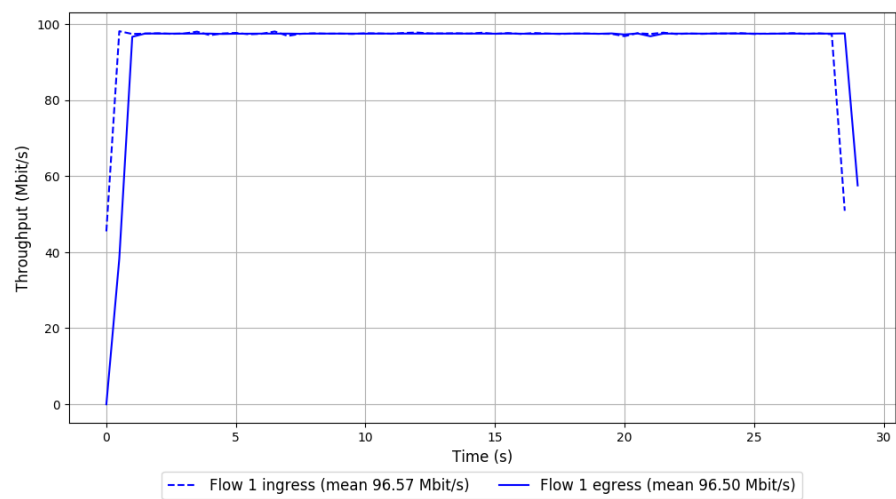


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-12-11 03:26:28
End at: 2019-12-11 03:26:58
Local clock offset: 3.603 ms
Remote clock offset: -1.567 ms

Below is generated by plot.py at 2019-12-11 05:12:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.50 Mbit/s
95th percentile per-packet one-way delay: 38.157 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 96.50 Mbit/s
95th percentile per-packet one-way delay: 38.157 ms
Loss rate: 0.06%

Run 2: Report of Indigo-MusesC3 — Data Link

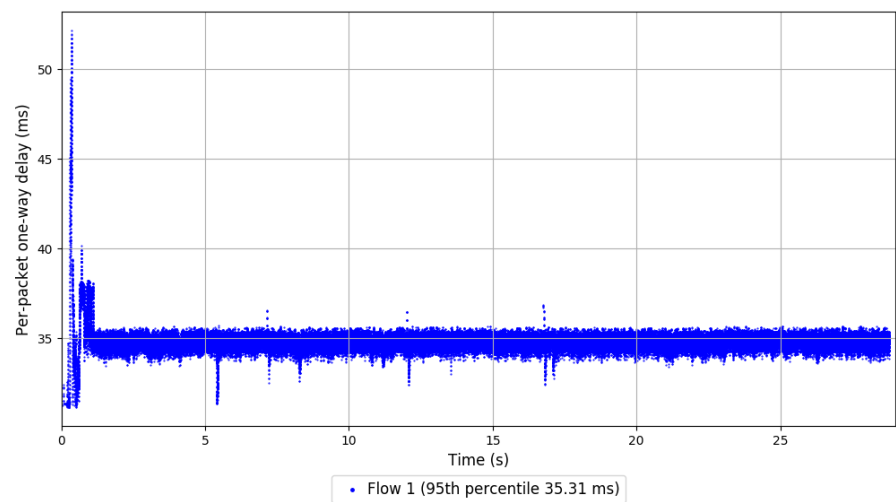
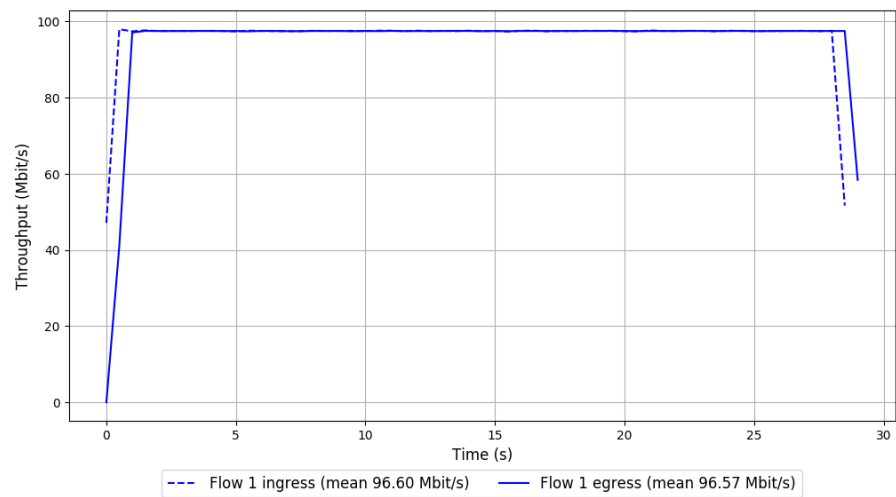


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-12-11 03:55:57
End at: 2019-12-11 03:56:27
Local clock offset: 5.346 ms
Remote clock offset: -1.973 ms

Below is generated by plot.py at 2019-12-11 05:12:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.57 Mbit/s
95th percentile per-packet one-way delay: 35.314 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.57 Mbit/s
95th percentile per-packet one-way delay: 35.314 ms
Loss rate: 0.01%

Run 3: Report of Indigo-MusesC3 — Data Link

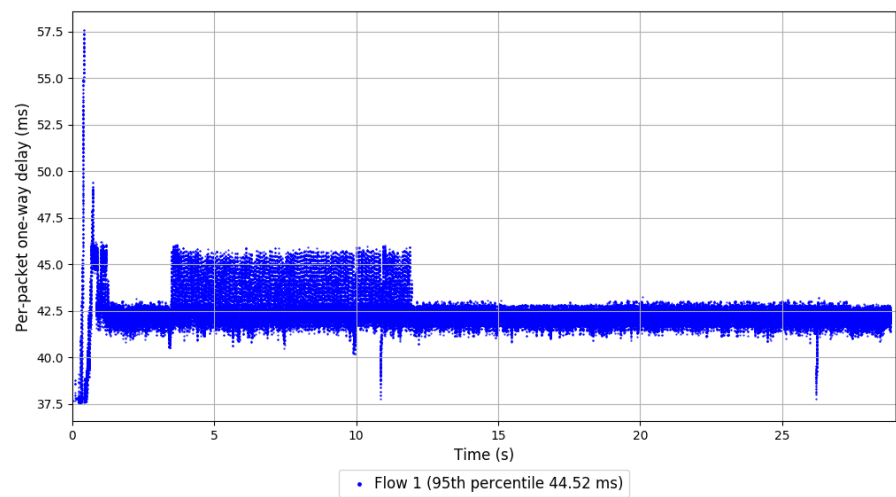
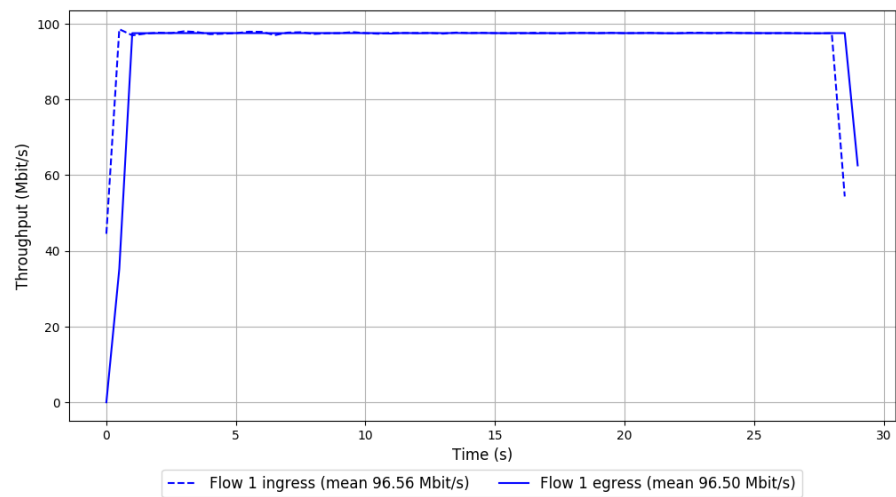


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-12-11 04:25:18
End at: 2019-12-11 04:25:48
Local clock offset: 3.969 ms
Remote clock offset: -2.831 ms

Below is generated by plot.py at 2019-12-11 05:12:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.50 Mbit/s
95th percentile per-packet one-way delay: 44.522 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 96.50 Mbit/s
95th percentile per-packet one-way delay: 44.522 ms
Loss rate: 0.05%

Run 4: Report of Indigo-MusesC3 — Data Link

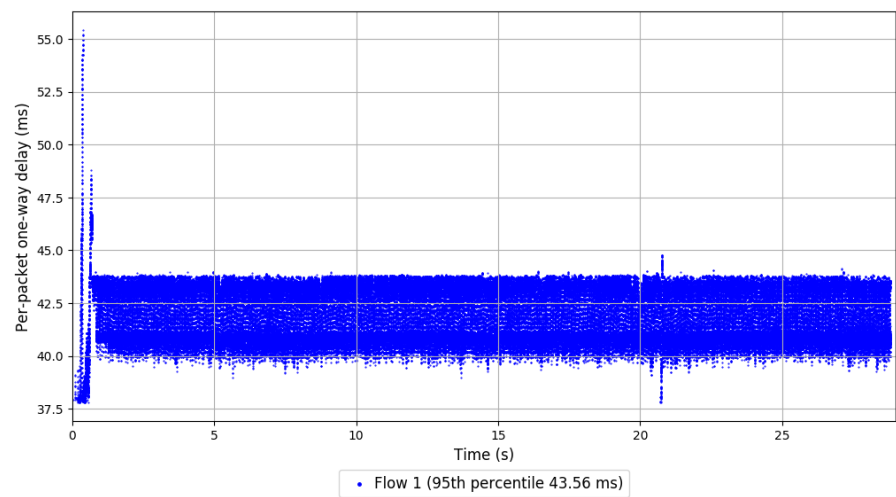
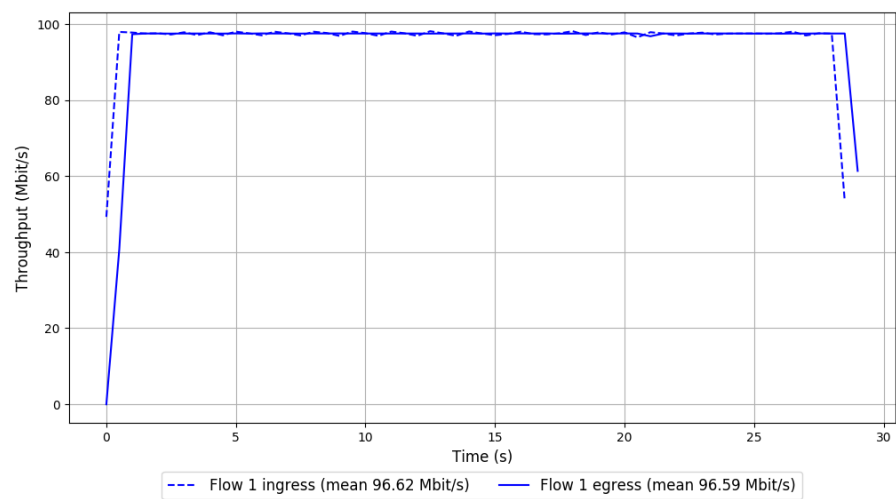


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-12-11 04:54:07
End at: 2019-12-11 04:54:37
Local clock offset: 0.729 ms
Remote clock offset: -0.676 ms

Below is generated by plot.py at 2019-12-11 05:12:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.59 Mbit/s
95th percentile per-packet one-way delay: 43.557 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 96.59 Mbit/s
95th percentile per-packet one-way delay: 43.557 ms
Loss rate: 0.02%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-12-11 02:53:23

End at: 2019-12-11 02:53:53

Local clock offset: 6.237 ms

Remote clock offset: -0.558 ms

Below is generated by plot.py at 2019-12-11 05:12:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.90 Mbit/s

95th percentile per-packet one-way delay: 36.969 ms

Loss rate: 0.37%

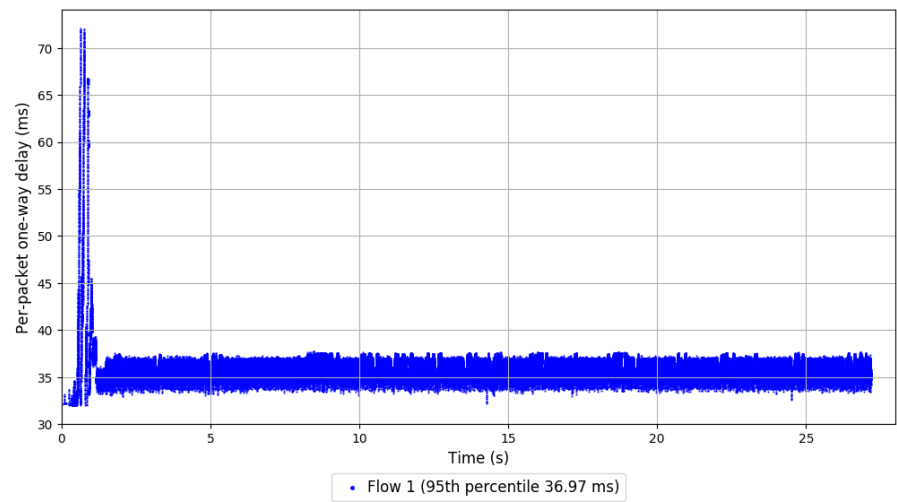
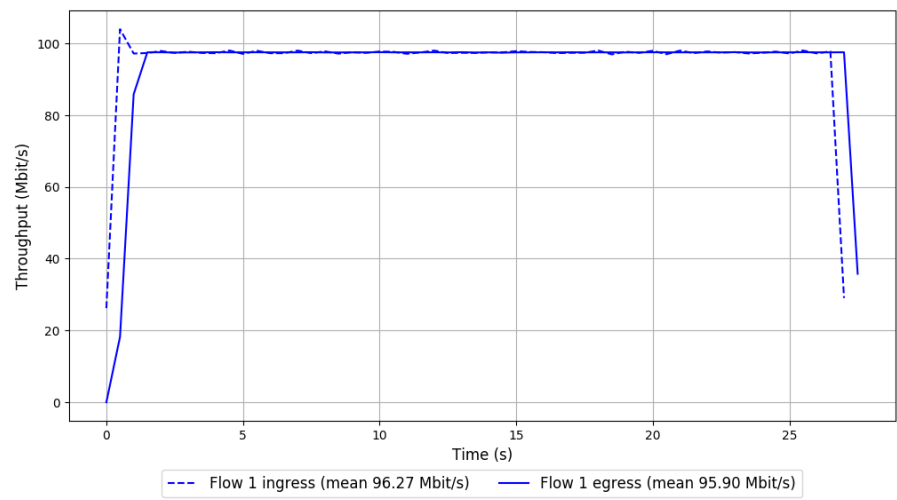
-- Flow 1:

Average throughput: 95.90 Mbit/s

95th percentile per-packet one-way delay: 36.969 ms

Loss rate: 0.37%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-12-11 03:22:24

End at: 2019-12-11 03:22:54

Local clock offset: 4.231 ms

Remote clock offset: -2.386 ms

Below is generated by plot.py at 2019-12-11 05:12:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.97 Mbit/s

95th percentile per-packet one-way delay: 32.986 ms

Loss rate: 0.02%

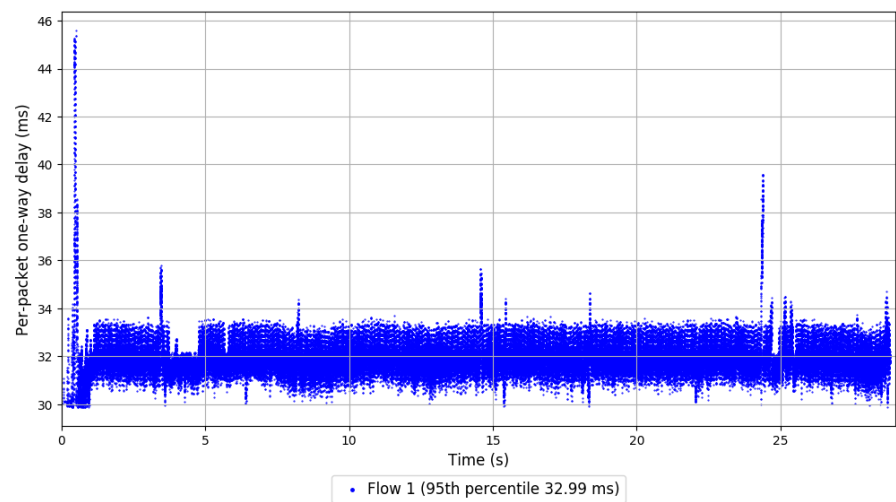
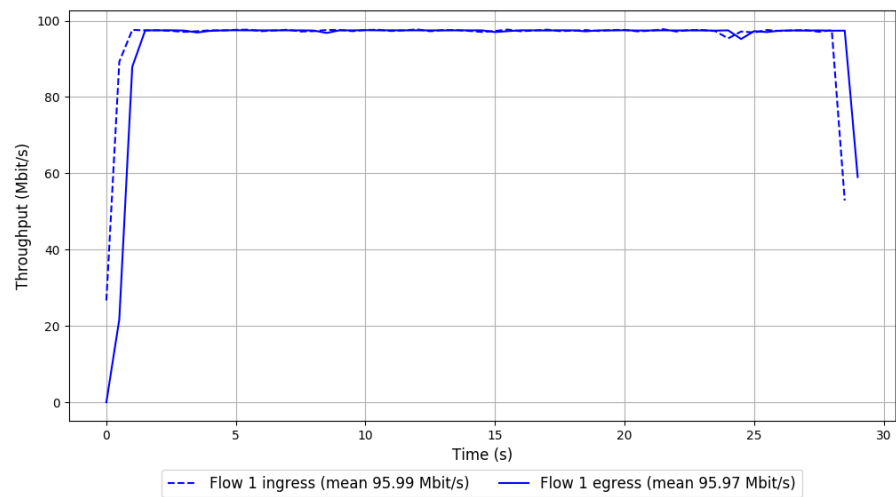
-- Flow 1:

Average throughput: 95.97 Mbit/s

95th percentile per-packet one-way delay: 32.986 ms

Loss rate: 0.02%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-12-11 03:52:02

End at: 2019-12-11 03:52:32

Local clock offset: 1.588 ms

Remote clock offset: -2.592 ms

Below is generated by plot.py at 2019-12-11 05:13:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.34 Mbit/s

95th percentile per-packet one-way delay: 38.921 ms

Loss rate: 0.02%

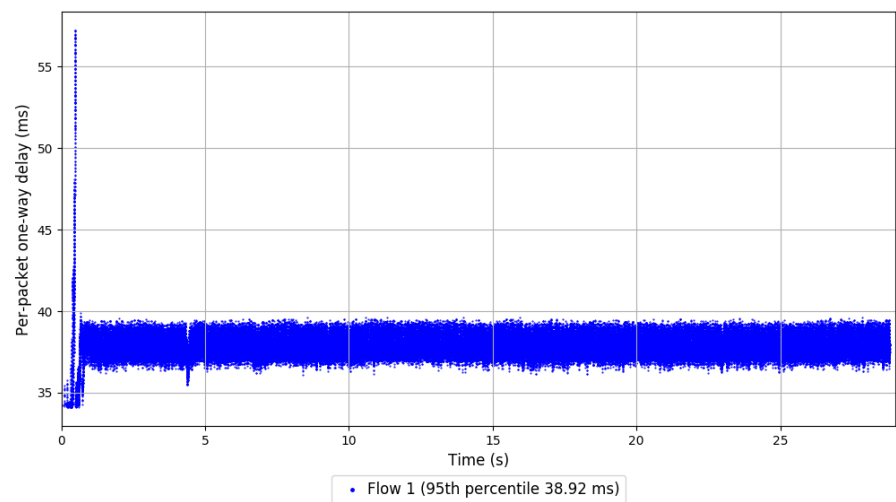
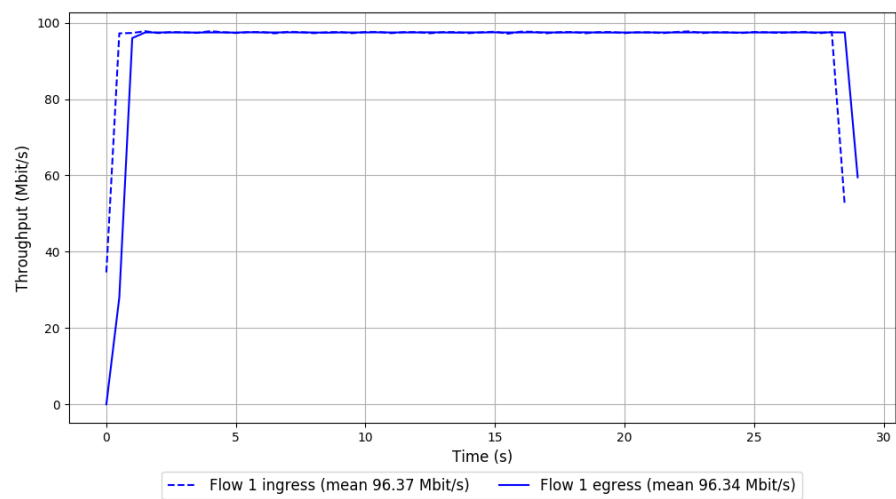
-- Flow 1:

Average throughput: 96.34 Mbit/s

95th percentile per-packet one-way delay: 38.921 ms

Loss rate: 0.02%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-12-11 04:21:36

End at: 2019-12-11 04:22:06

Local clock offset: 0.205 ms

Remote clock offset: -2.111 ms

Below is generated by plot.py at 2019-12-11 05:13:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.05 Mbit/s

95th percentile per-packet one-way delay: 38.836 ms

Loss rate: 0.04%

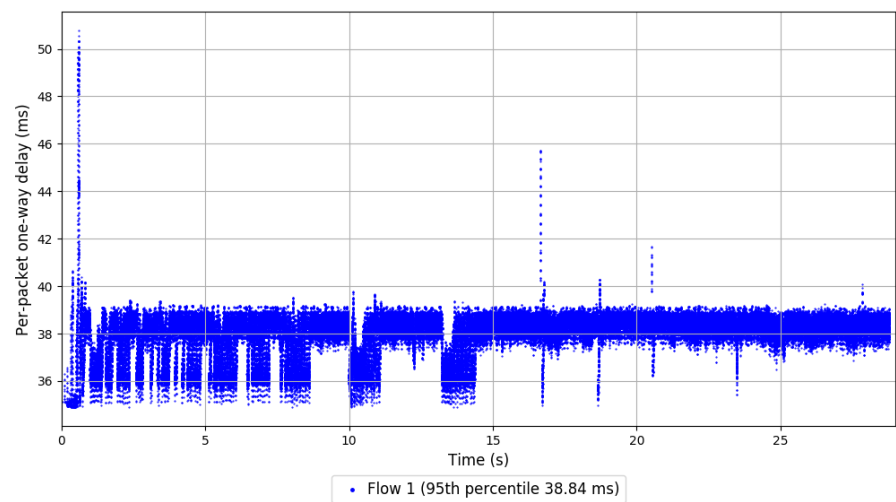
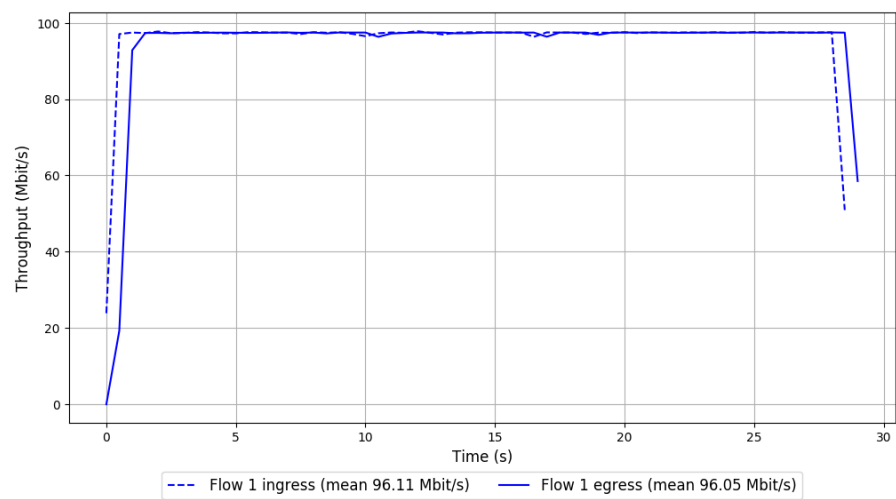
-- Flow 1:

Average throughput: 96.05 Mbit/s

95th percentile per-packet one-way delay: 38.836 ms

Loss rate: 0.04%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-12-11 04:50:24

End at: 2019-12-11 04:50:54

Local clock offset: 5.0 ms

Remote clock offset: -3.673 ms

Below is generated by plot.py at 2019-12-11 05:13:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.14 Mbit/s

95th percentile per-packet one-way delay: 33.553 ms

Loss rate: 0.00%

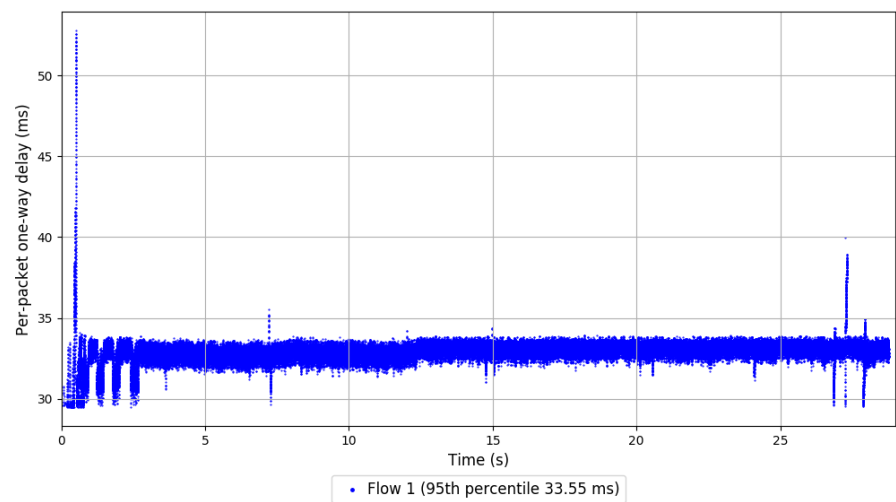
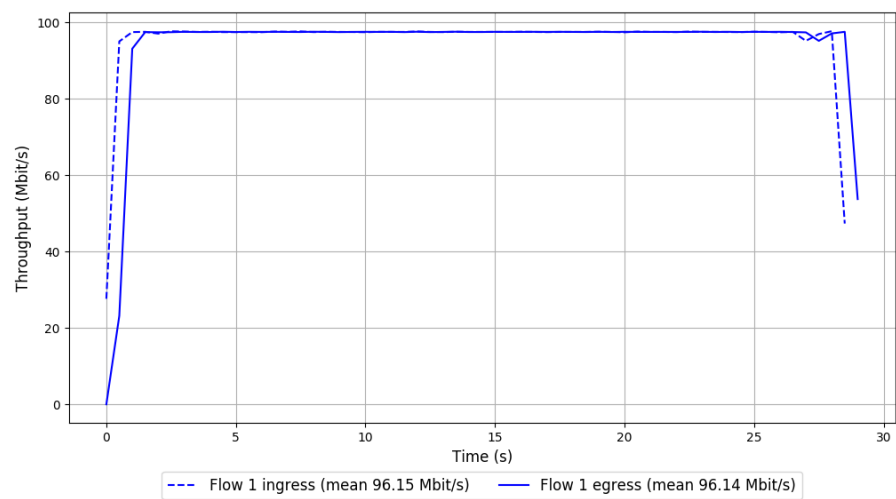
-- Flow 1:

Average throughput: 96.14 Mbit/s

95th percentile per-packet one-way delay: 33.553 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC5 — Data Link

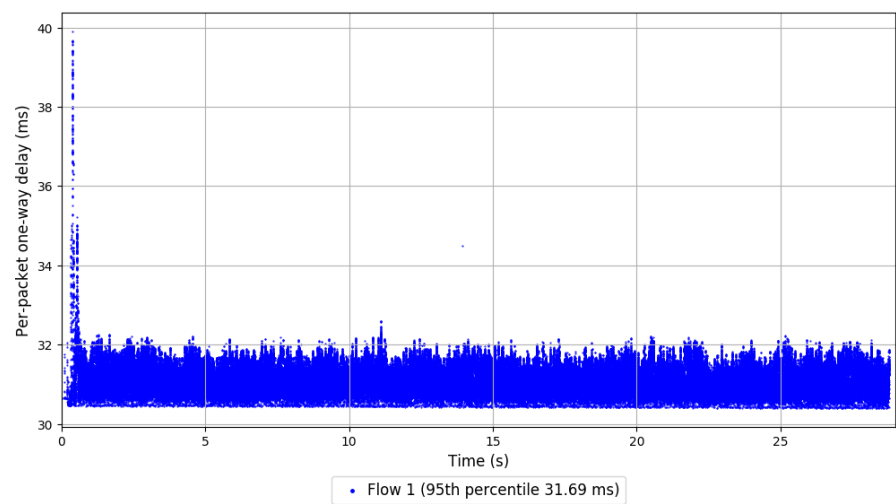
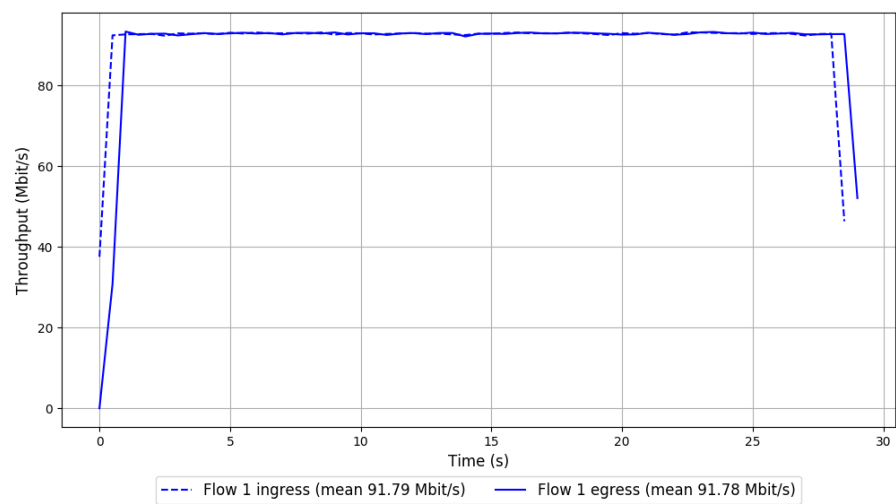



```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-12-11 02:58:19
End at: 2019-12-11 02:58:49
Local clock offset: 5.233 ms
Remote clock offset: -1.325 ms

# Below is generated by plot.py at 2019-12-11 05:13:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.78 Mbit/s
95th percentile per-packet one-way delay: 31.691 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 91.78 Mbit/s
95th percentile per-packet one-way delay: 31.691 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-12-11 03:27:46

End at: 2019-12-11 03:28:16

Local clock offset: 4.689 ms

Remote clock offset: -1.006 ms

Below is generated by plot.py at 2019-12-11 05:13:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 33.250 ms

Loss rate: 0.02%

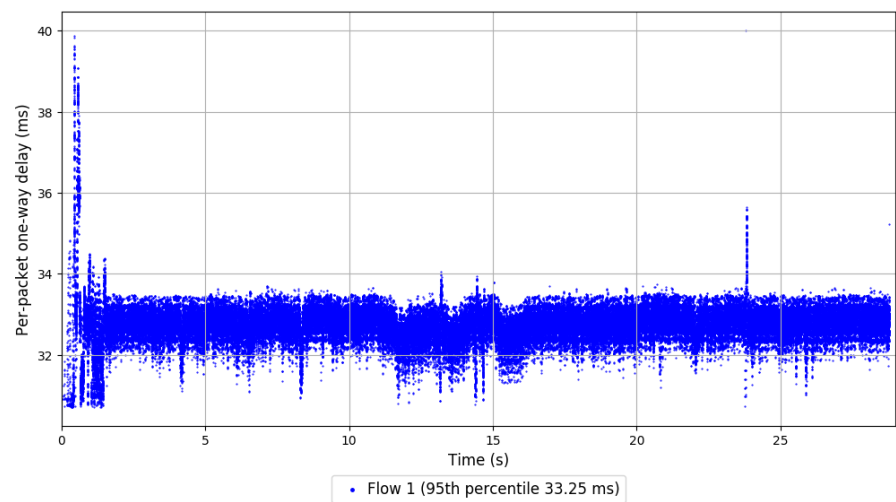
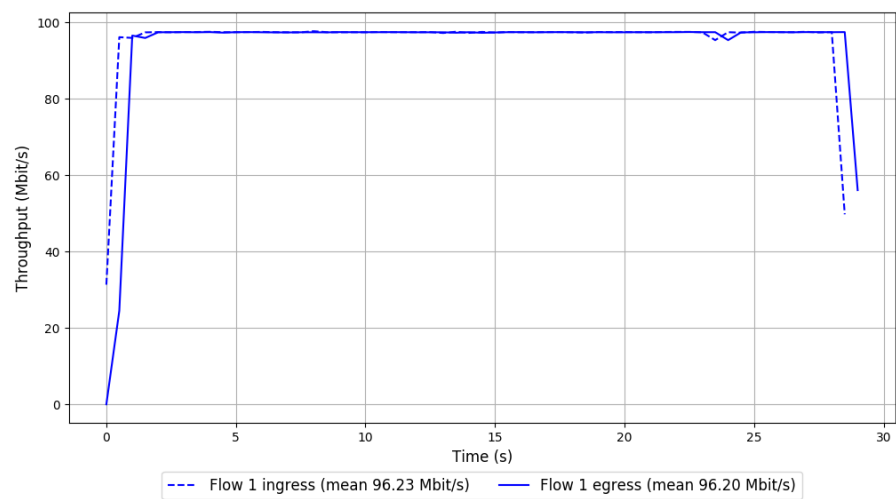
-- Flow 1:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 33.250 ms

Loss rate: 0.02%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-12-11 03:57:16

End at: 2019-12-11 03:57:46

Local clock offset: 3.822 ms

Remote clock offset: -1.809 ms

Below is generated by plot.py at 2019-12-11 05:13:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.14 Mbit/s

95th percentile per-packet one-way delay: 36.744 ms

Loss rate: 0.00%

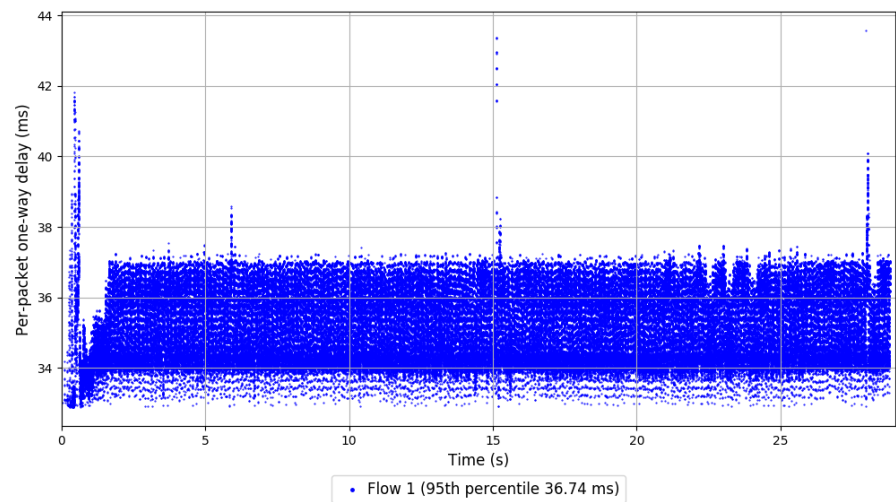
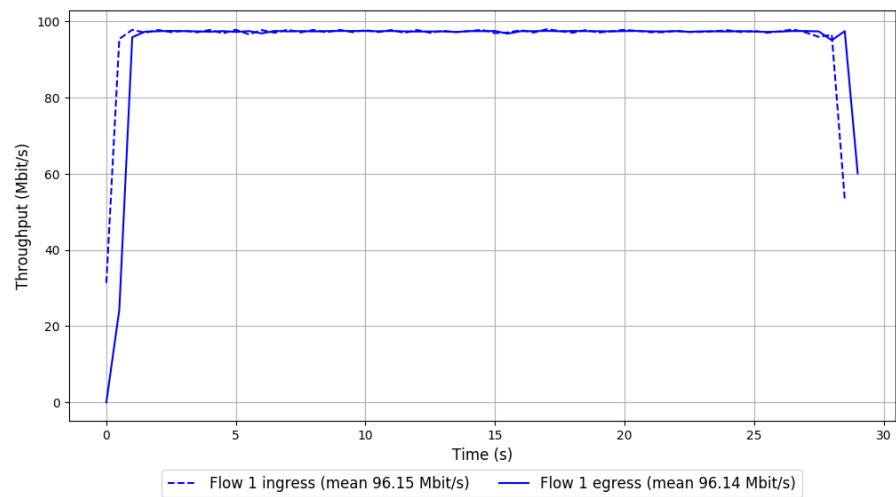
-- Flow 1:

Average throughput: 96.14 Mbit/s

95th percentile per-packet one-way delay: 36.744 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-12-11 04:26:35

End at: 2019-12-11 04:27:05

Local clock offset: 4.045 ms

Remote clock offset: -1.268 ms

Below is generated by plot.py at 2019-12-11 05:13:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 44.194 ms

Loss rate: 0.09%

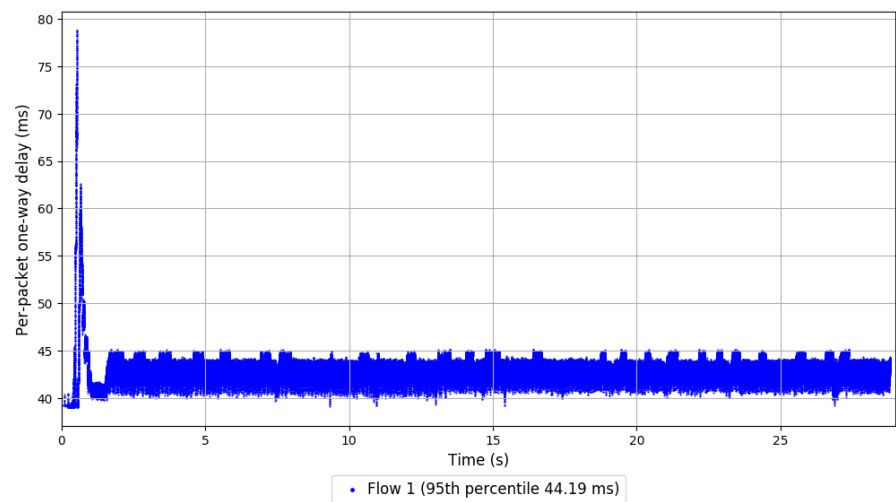
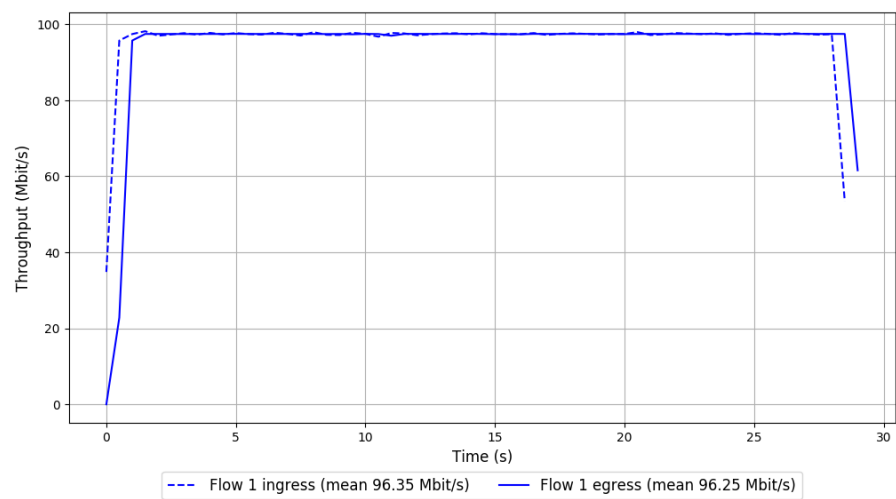
-- Flow 1:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 44.194 ms

Loss rate: 0.09%

Run 4: Report of Indigo-MusesD — Data Link

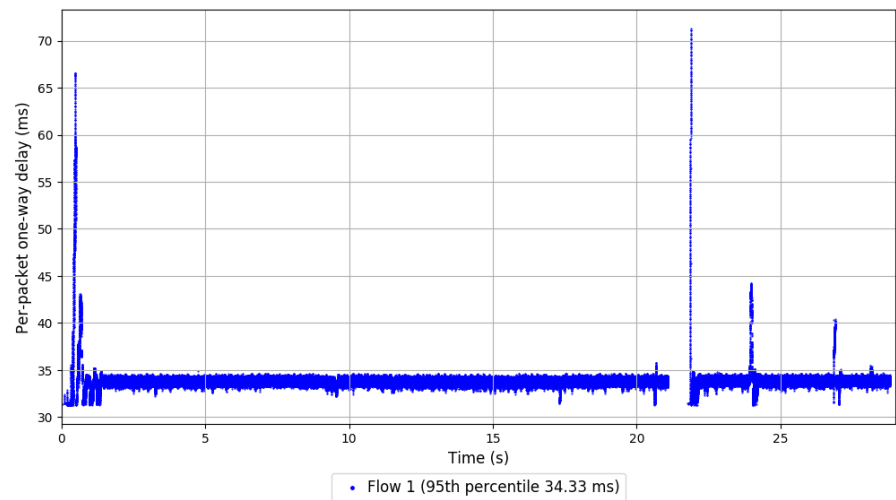
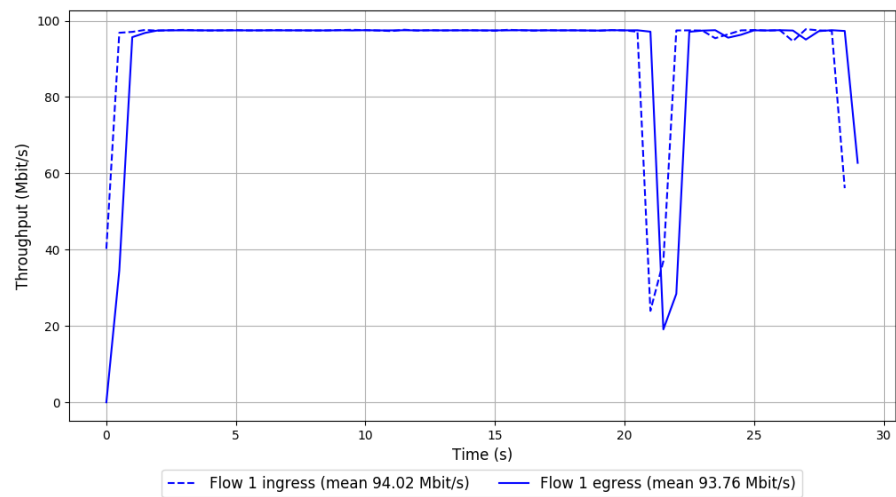


Run 5: Statistics of Indigo-MusesD

Start at: 2019-12-11 04:55:21
End at: 2019-12-11 04:55:52
Local clock offset: 4.361 ms
Remote clock offset: -3.663 ms

Below is generated by plot.py at 2019-12-11 05:14:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.76 Mbit/s
95th percentile per-packet one-way delay: 34.334 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 93.76 Mbit/s
95th percentile per-packet one-way delay: 34.334 ms
Loss rate: 0.27%

Run 5: Report of Indigo-MusesD — Data Link

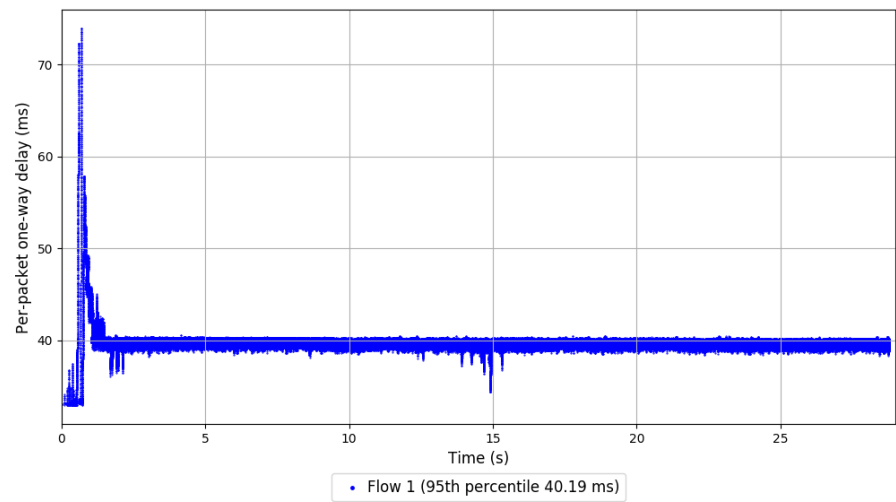
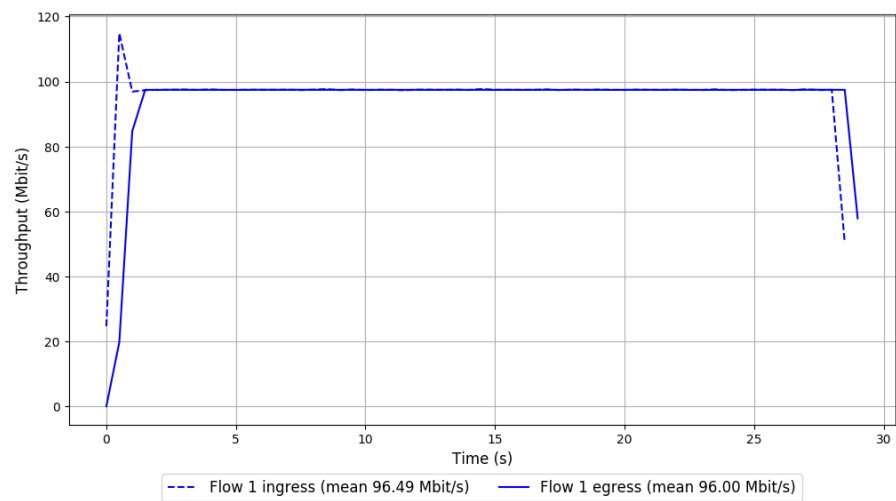


```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-12-11 02:55:58
End at: 2019-12-11 02:56:28
Local clock offset: 6.533 ms
Remote clock offset: 1.29 ms

# Below is generated by plot.py at 2019-12-11 05:14:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: 40.185 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: 40.185 ms
Loss rate: 0.49%
```

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-12-11 03:25:06

End at: 2019-12-11 03:25:36

Local clock offset: 0.224 ms

Remote clock offset: -2.112 ms

Below is generated by plot.py at 2019-12-11 05:14:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.46 Mbit/s

95th percentile per-packet one-way delay: 39.106 ms

Loss rate: 0.10%

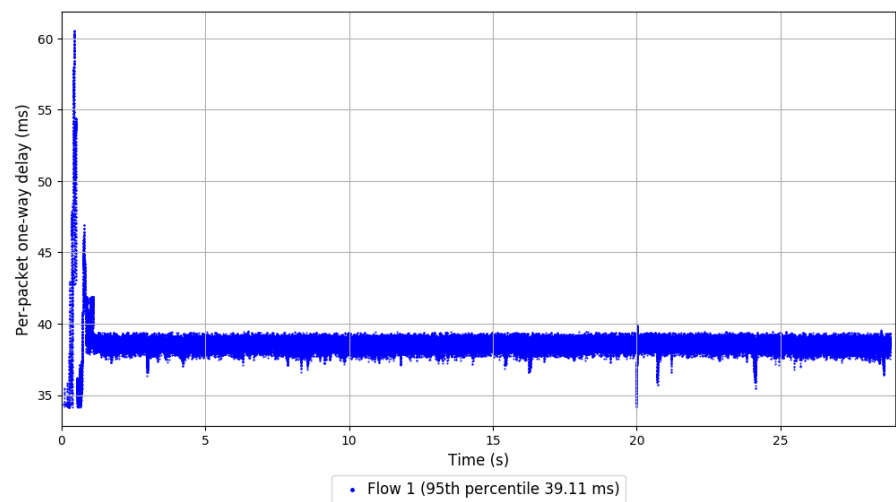
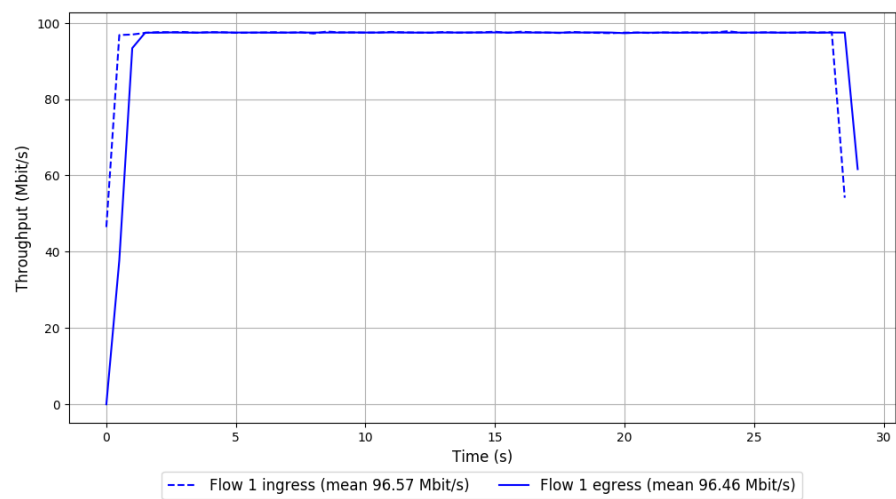
-- Flow 1:

Average throughput: 96.46 Mbit/s

95th percentile per-packet one-way delay: 39.106 ms

Loss rate: 0.10%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-12-11 03:54:36

End at: 2019-12-11 03:55:06

Local clock offset: 5.954 ms

Remote clock offset: -1.808 ms

Below is generated by plot.py at 2019-12-11 05:14:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.56 Mbit/s

95th percentile per-packet one-way delay: 34.639 ms

Loss rate: 0.01%

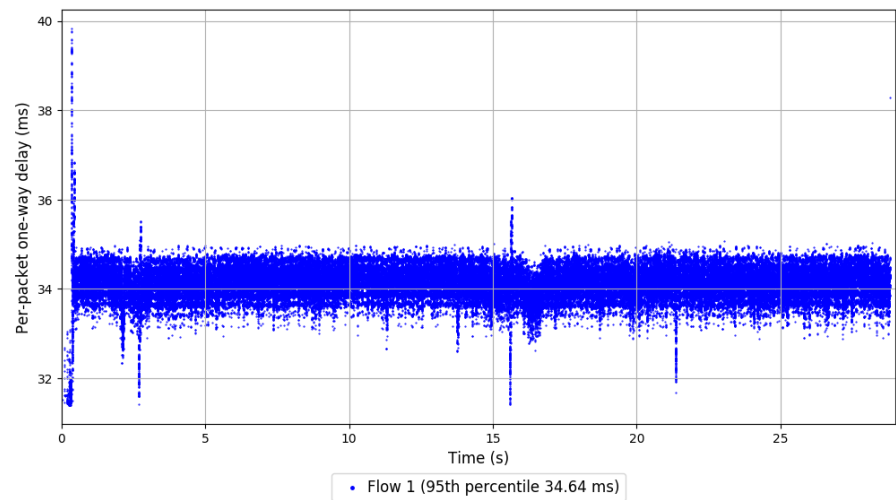
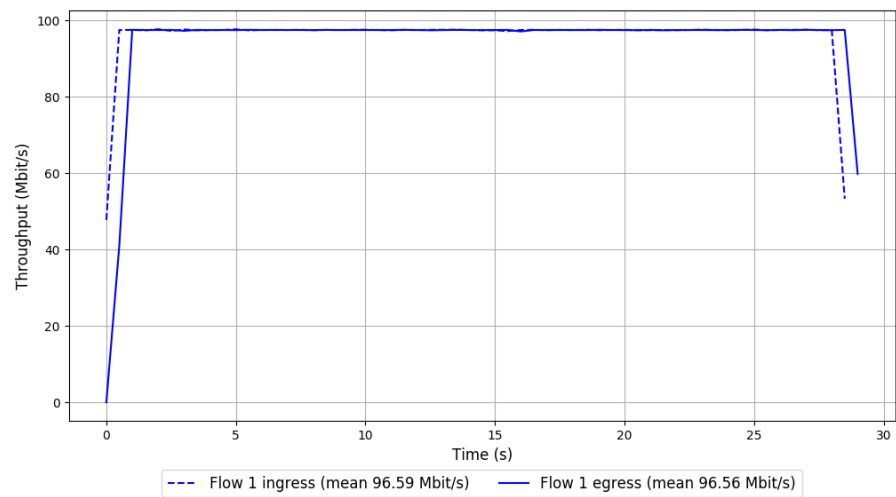
-- Flow 1:

Average throughput: 96.56 Mbit/s

95th percentile per-packet one-way delay: 34.639 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-12-11 04:24:06

End at: 2019-12-11 04:24:36

Local clock offset: 0.006 ms

Remote clock offset: -1.136 ms

Below is generated by plot.py at 2019-12-11 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.39 Mbit/s

95th percentile per-packet one-way delay: 39.872 ms

Loss rate: 0.03%

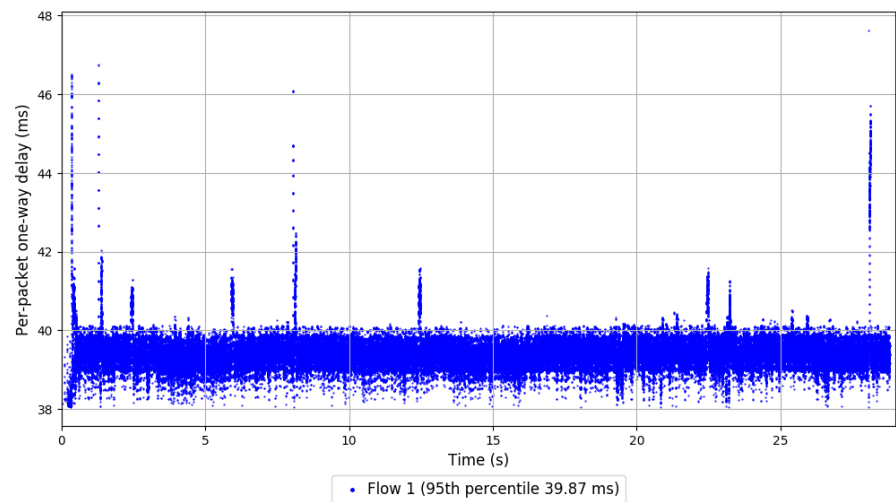
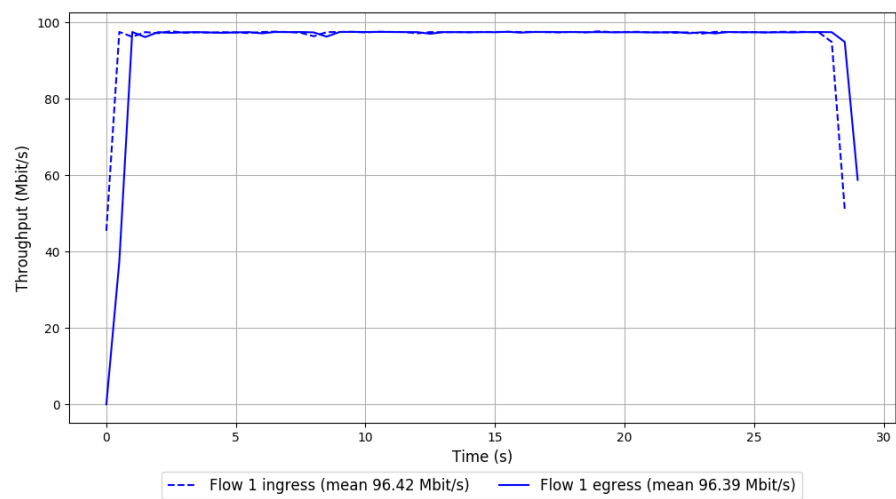
-- Flow 1:

Average throughput: 96.39 Mbit/s

95th percentile per-packet one-way delay: 39.872 ms

Loss rate: 0.03%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-12-11 04:52:52

End at: 2019-12-11 04:53:22

Local clock offset: 5.31 ms

Remote clock offset: -2.952 ms

Below is generated by plot.py at 2019-12-11 05:15:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.43 Mbit/s

95th percentile per-packet one-way delay: 46.318 ms

Loss rate: 0.13%

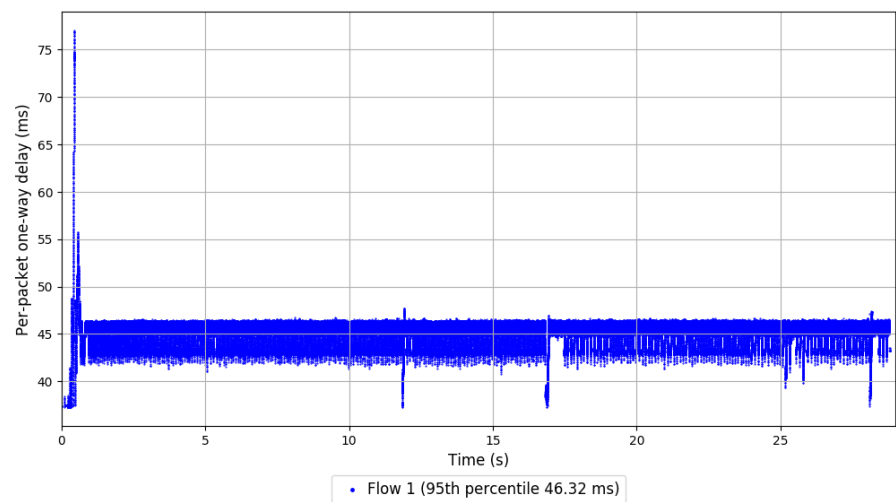
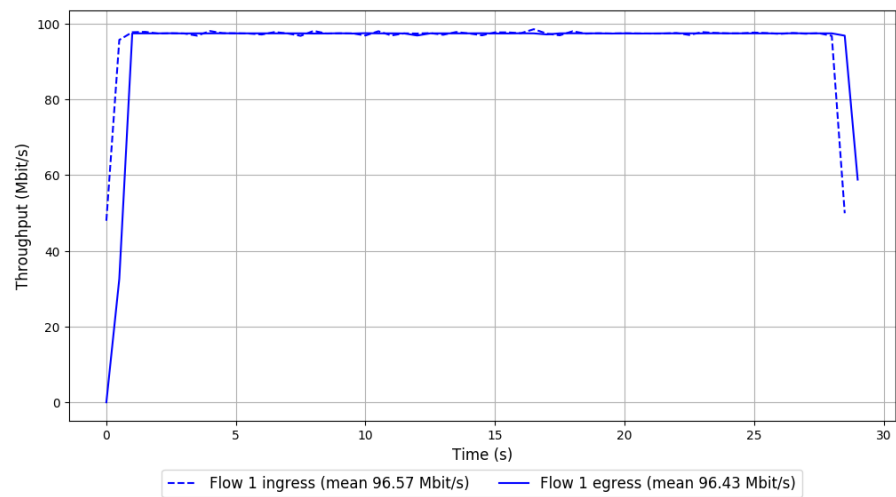
-- Flow 1:

Average throughput: 96.43 Mbit/s

95th percentile per-packet one-way delay: 46.318 ms

Loss rate: 0.13%

Run 5: Report of Indigo-MusesT — Data Link

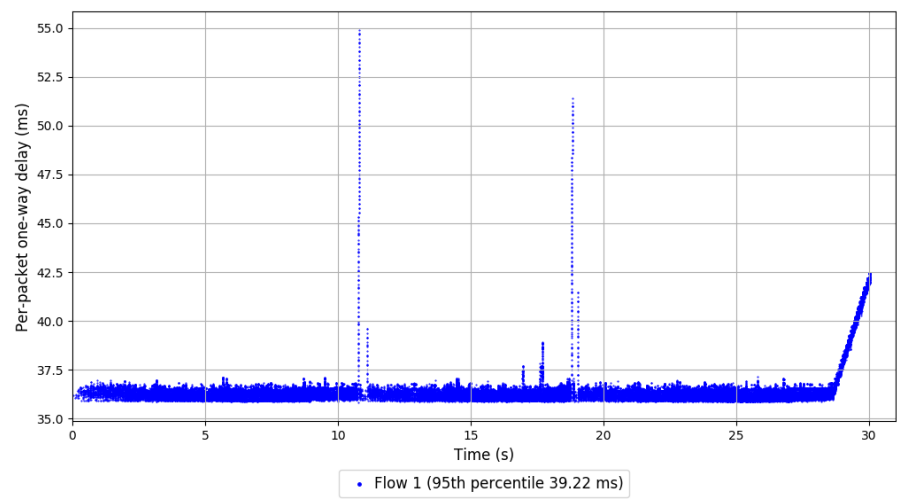
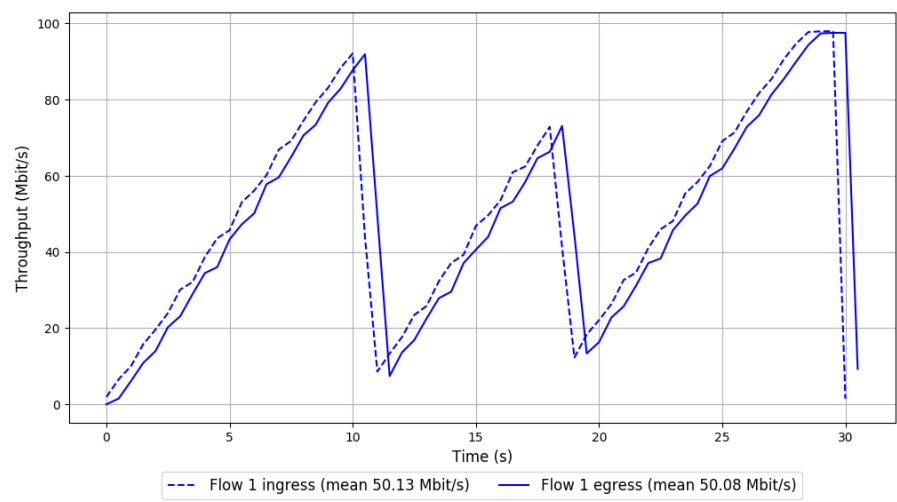


Run 1: Statistics of LEDBAT

Start at: 2019-12-11 02:46:13
End at: 2019-12-11 02:46:43
Local clock offset: 2.101 ms
Remote clock offset: -0.388 ms

Below is generated by plot.py at 2019-12-11 05:15:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.08 Mbit/s
95th percentile per-packet one-way delay: 39.224 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 50.08 Mbit/s
95th percentile per-packet one-way delay: 39.224 ms
Loss rate: 0.08%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-12-11 03:14:57

End at: 2019-12-11 03:15:27

Local clock offset: 4.612 ms

Remote clock offset: 1.365 ms

Below is generated by plot.py at 2019-12-11 05:15:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.22 Mbit/s

95th percentile per-packet one-way delay: 33.622 ms

Loss rate: 0.09%

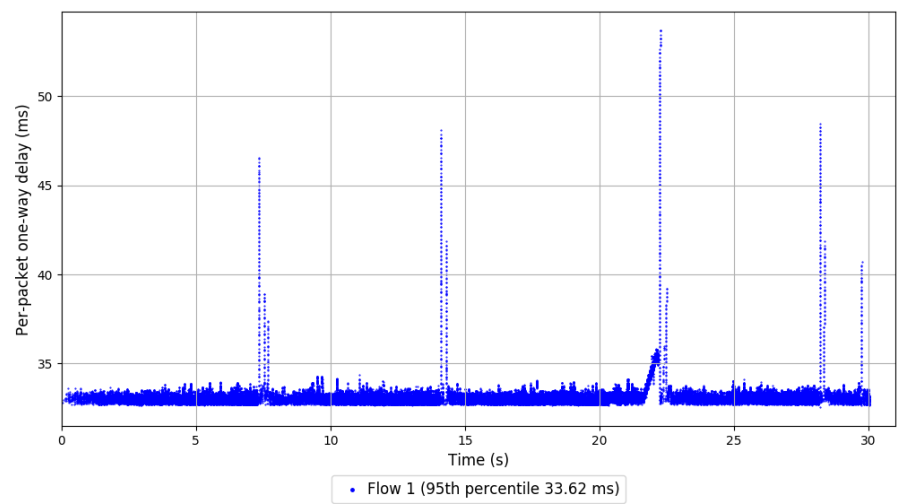
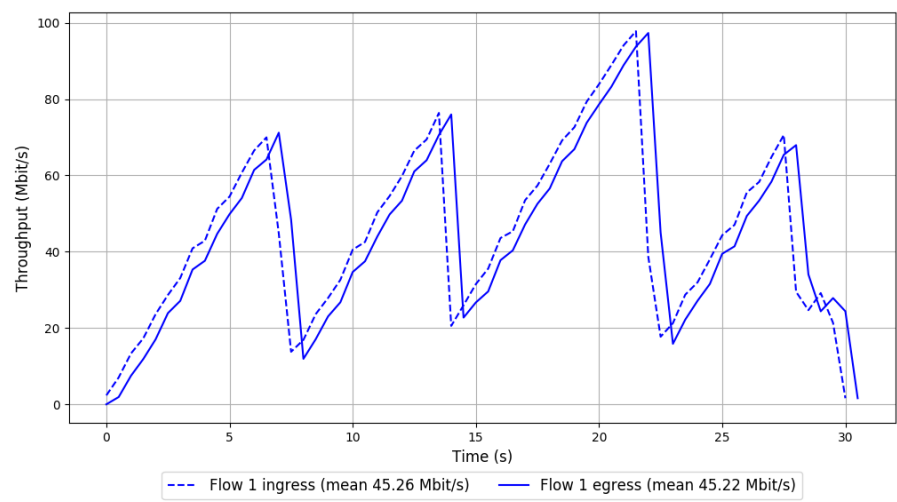
-- Flow 1:

Average throughput: 45.22 Mbit/s

95th percentile per-packet one-way delay: 33.622 ms

Loss rate: 0.09%

Run 2: Report of LEDBAT — Data Link

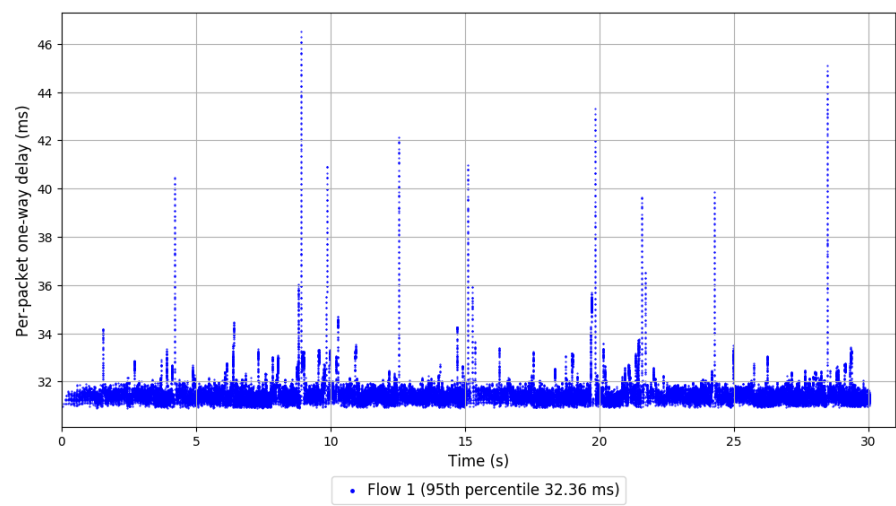
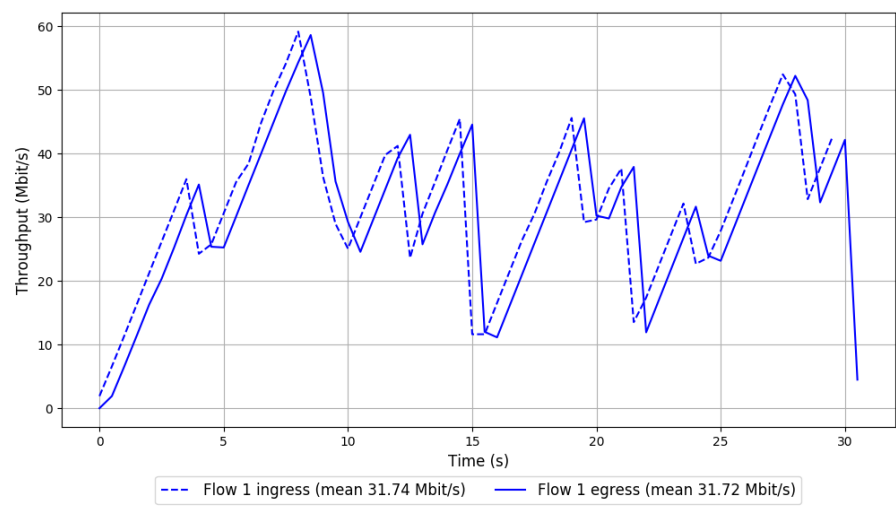


Run 3: Statistics of LEDBAT

Start at: 2019-12-11 03:44:50
End at: 2019-12-11 03:45:20
Local clock offset: 4.769 ms
Remote clock offset: -2.784 ms

Below is generated by plot.py at 2019-12-11 05:15:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 31.72 Mbit/s
95th percentile per-packet one-way delay: 32.363 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 31.72 Mbit/s
95th percentile per-packet one-way delay: 32.363 ms
Loss rate: 0.08%

Run 3: Report of LEDBAT — Data Link

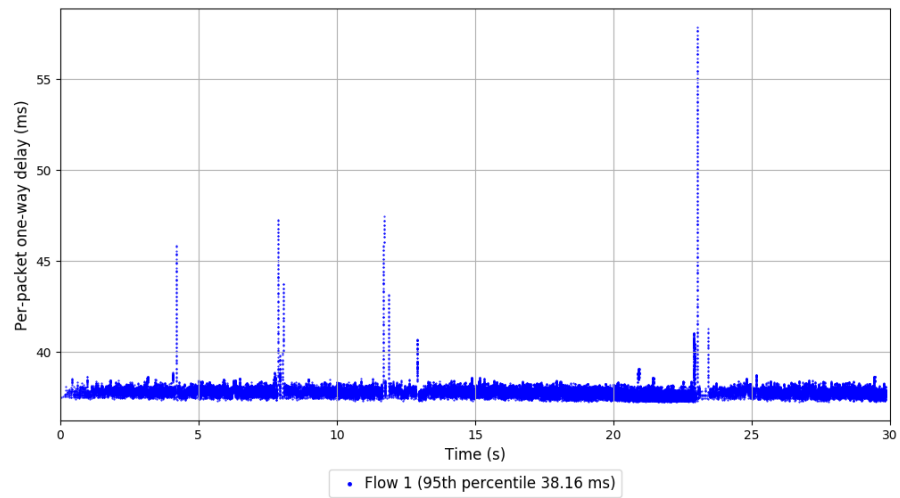
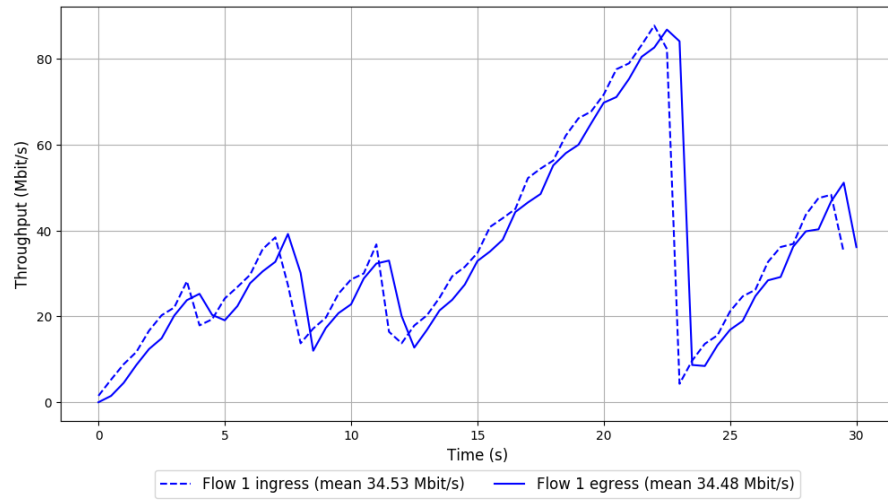


Run 4: Statistics of LEDBAT

Start at: 2019-12-11 04:14:13
End at: 2019-12-11 04:14:43
Local clock offset: 5.731 ms
Remote clock offset: -2.114 ms

Below is generated by plot.py at 2019-12-11 05:15:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 34.48 Mbit/s
95th percentile per-packet one-way delay: 38.163 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 34.48 Mbit/s
95th percentile per-packet one-way delay: 38.163 ms
Loss rate: 0.14%

Run 4: Report of LEDBAT — Data Link

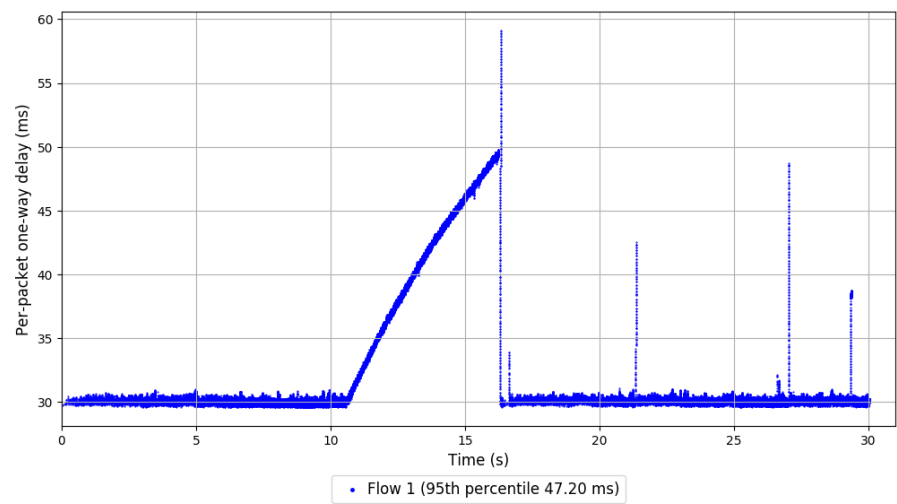
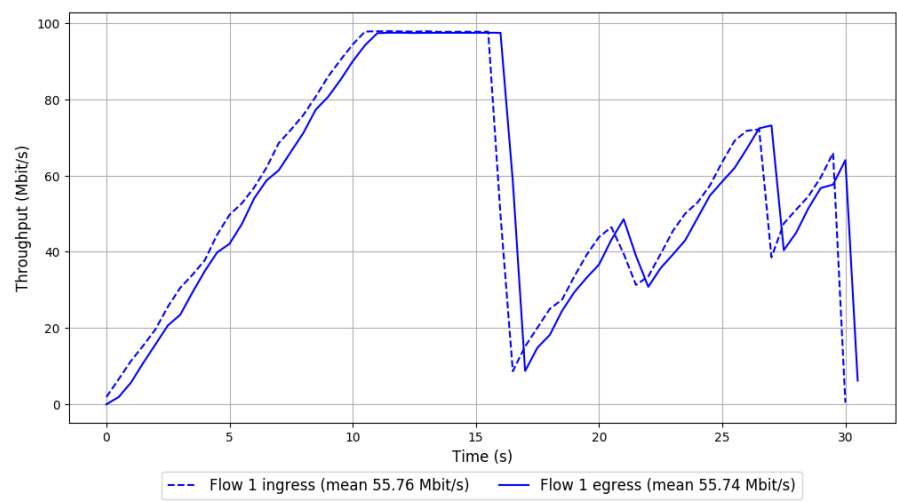


Run 5: Statistics of LEDBAT

Start at: 2019-12-11 04:43:13
End at: 2019-12-11 04:43:43
Local clock offset: 4.932 ms
Remote clock offset: -3.946 ms

Below is generated by plot.py at 2019-12-11 05:15:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 55.74 Mbit/s
95th percentile per-packet one-way delay: 47.201 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 55.74 Mbit/s
95th percentile per-packet one-way delay: 47.201 ms
Loss rate: 0.02%

Run 5: Report of LEDBAT — Data Link

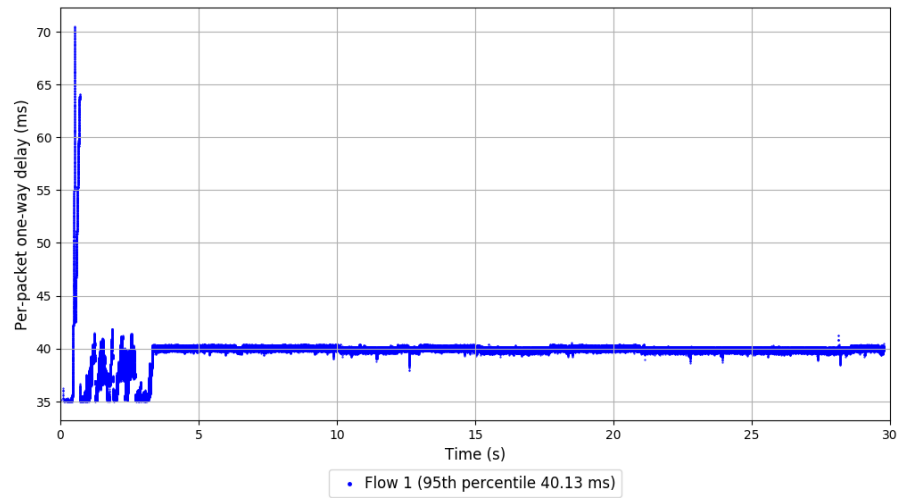
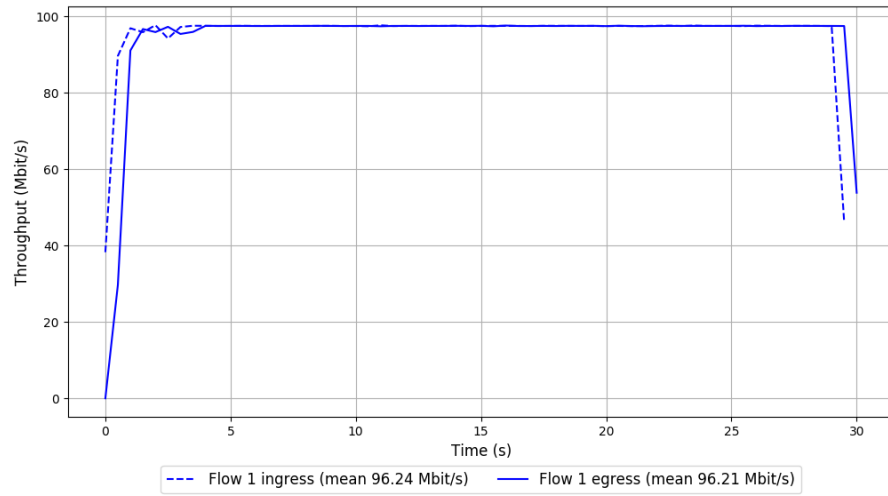


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-12-11 03:01:56
End at: 2019-12-11 03:02:26
Local clock offset: 2.186 ms
Remote clock offset: 0.383 ms

# Below is generated by plot.py at 2019-12-11 05:15:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.21 Mbit/s
95th percentile per-packet one-way delay: 40.126 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.21 Mbit/s
95th percentile per-packet one-way delay: 40.126 ms
Loss rate: 0.01%
```

Run 1: Report of Muses_DecisionTree — Data Link

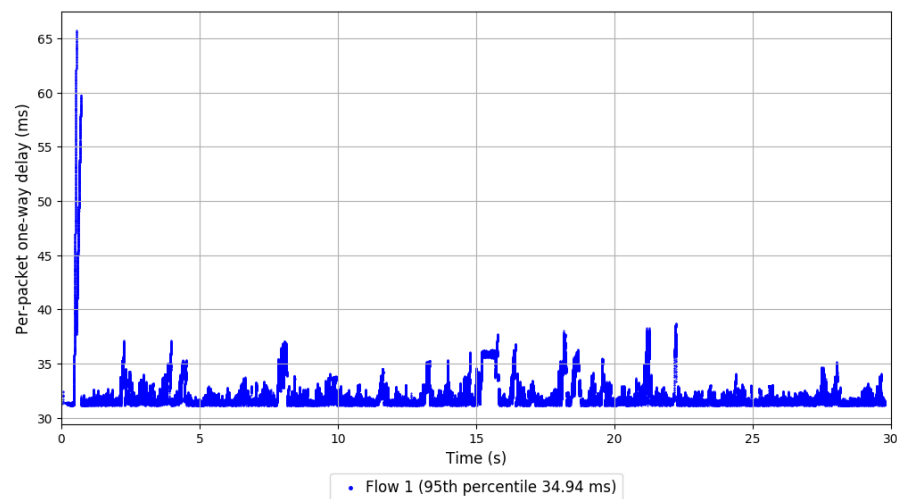
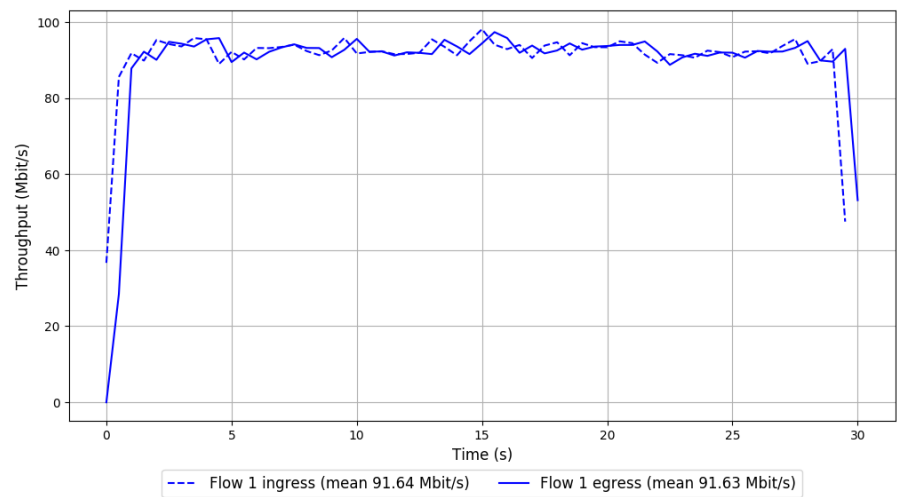


Run 2: Statistics of Muses_DecisionTree

Start at: 2019-12-11 03:31:27
End at: 2019-12-11 03:31:57
Local clock offset: 4.133 ms
Remote clock offset: -1.973 ms

Below is generated by plot.py at 2019-12-11 05:15:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.63 Mbit/s
95th percentile per-packet one-way delay: 34.940 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 91.63 Mbit/s
95th percentile per-packet one-way delay: 34.940 ms
Loss rate: 0.01%

Run 2: Report of Muses_DecisionTree — Data Link

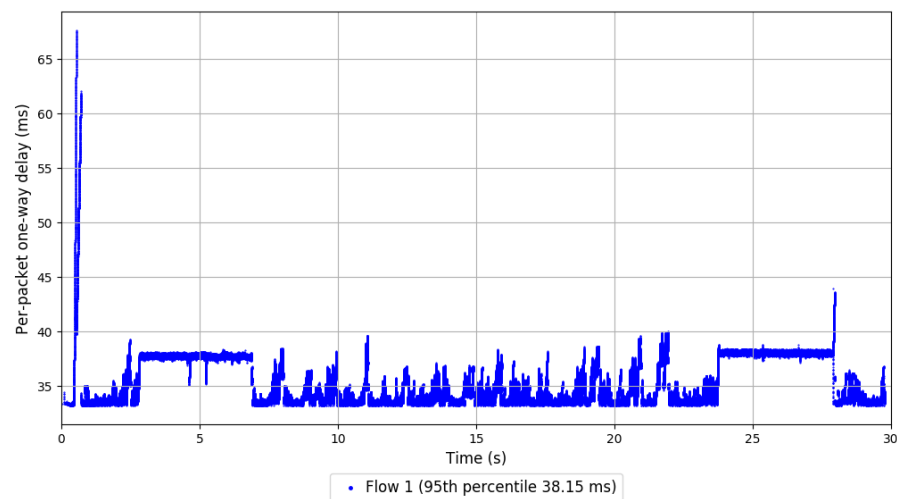
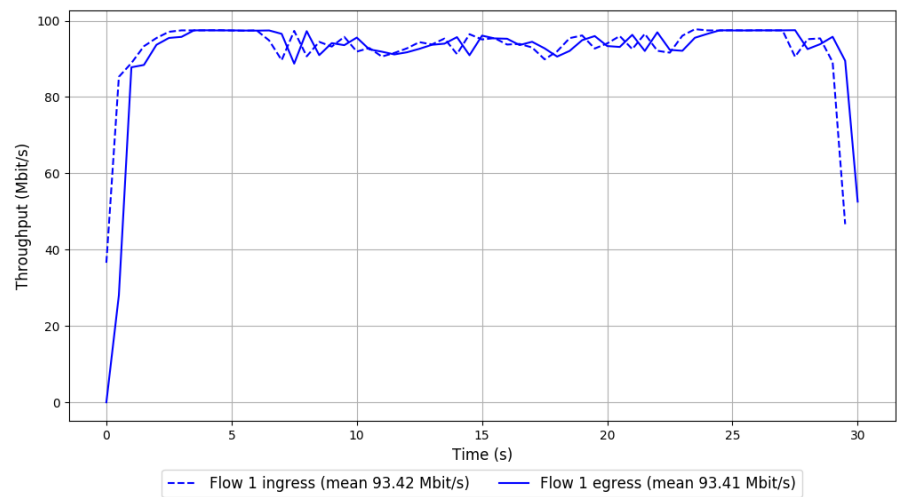


Run 3: Statistics of Muses_DecisionTree

Start at: 2019-12-11 04:00:57
End at: 2019-12-11 04:01:27
Local clock offset: 4.872 ms
Remote clock offset: -0.678 ms

Below is generated by plot.py at 2019-12-11 05:15:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.41 Mbit/s
95th percentile per-packet one-way delay: 38.149 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 93.41 Mbit/s
95th percentile per-packet one-way delay: 38.149 ms
Loss rate: 0.01%

Run 3: Report of Muses_DecisionTree — Data Link

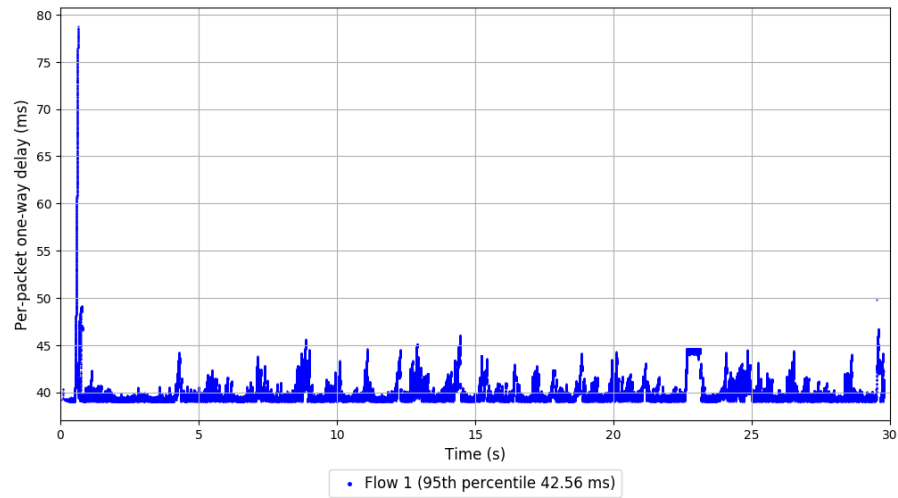
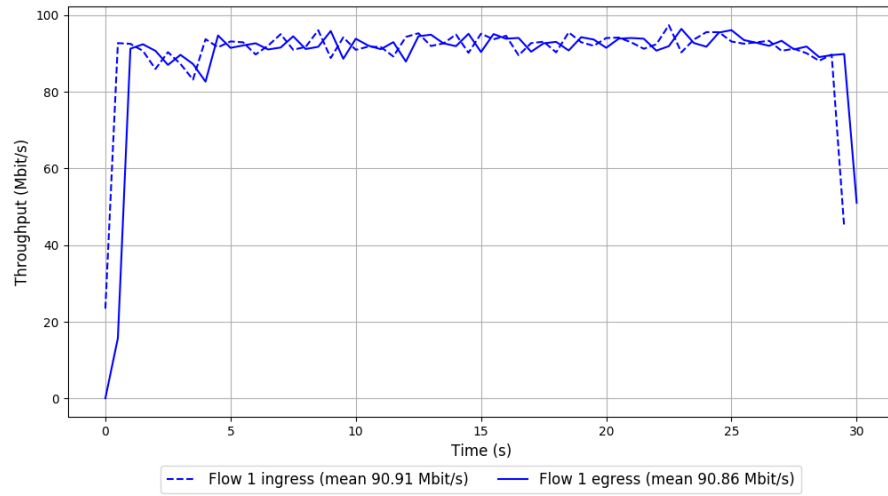


Run 4: Statistics of Muses_DecisionTree

Start at: 2019-12-11 04:30:13
End at: 2019-12-11 04:30:44
Local clock offset: 4.394 ms
Remote clock offset: -0.793 ms

Below is generated by plot.py at 2019-12-11 05:15:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.86 Mbit/s
95th percentile per-packet one-way delay: 42.564 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 90.86 Mbit/s
95th percentile per-packet one-way delay: 42.564 ms
Loss rate: 0.05%

Run 4: Report of Muses_DecisionTree — Data Link

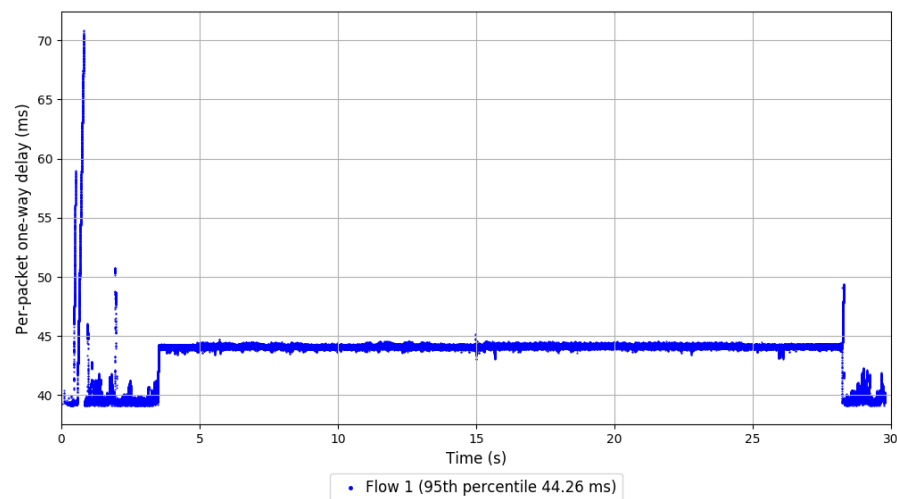
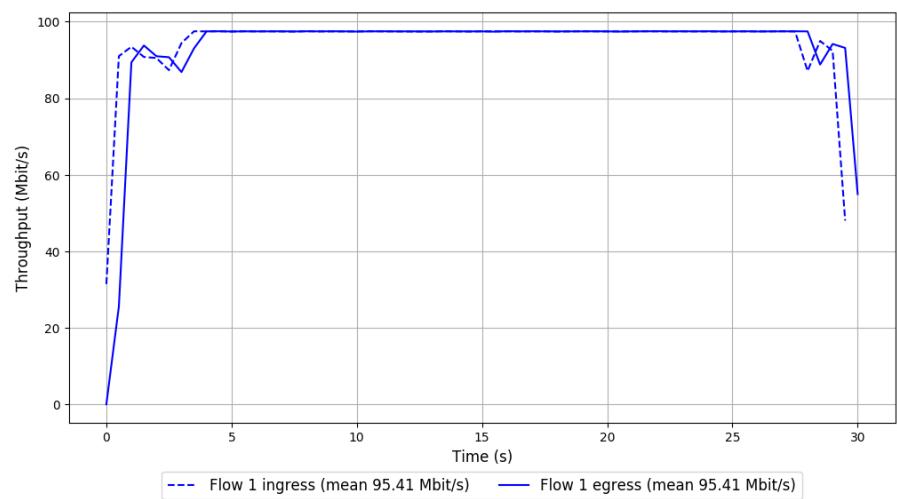


Run 5: Statistics of Muses_DecisionTree

Start at: 2019-12-11 04:59:01
End at: 2019-12-11 04:59:31
Local clock offset: -0.599 ms
Remote clock offset: -0.174 ms

Below is generated by plot.py at 2019-12-11 05:16:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.41 Mbit/s
95th percentile per-packet one-way delay: 44.257 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.41 Mbit/s
95th percentile per-packet one-way delay: 44.257 ms
Loss rate: 0.00%

Run 5: Report of Muses_DecisionTree — Data Link

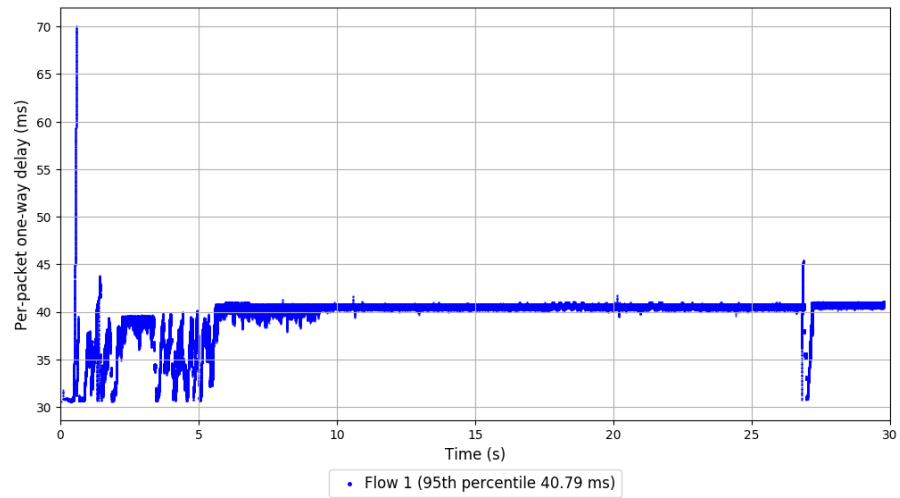
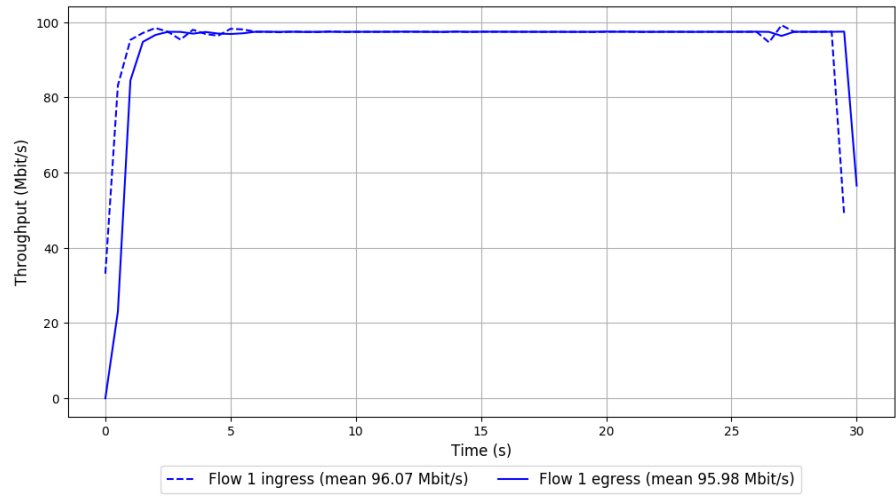



```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-12-11 03:03:08
End at: 2019-12-11 03:03:38
Local clock offset: 5.987 ms
Remote clock offset: -0.228 ms

# Below is generated by plot.py at 2019-12-11 05:16:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 40.789 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 40.789 ms
Loss rate: 0.06%
```

Run 1: Report of Muses_DecisionTreeH0 — Data Link

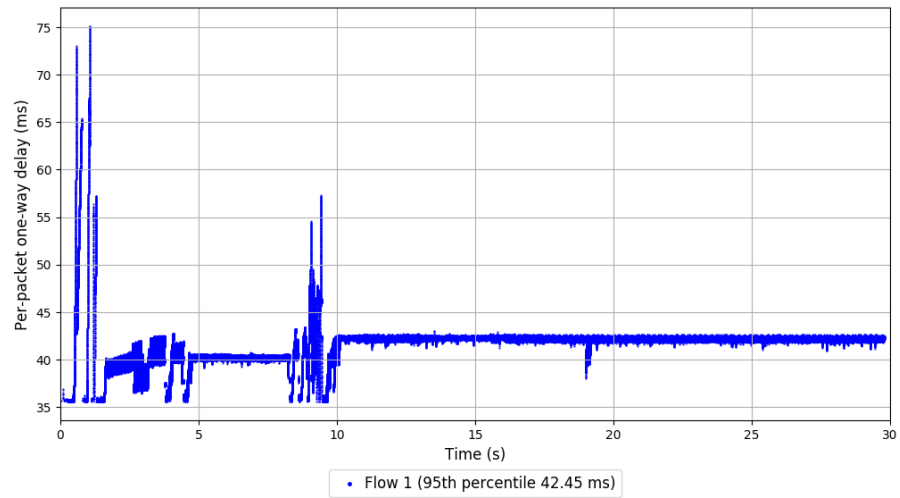
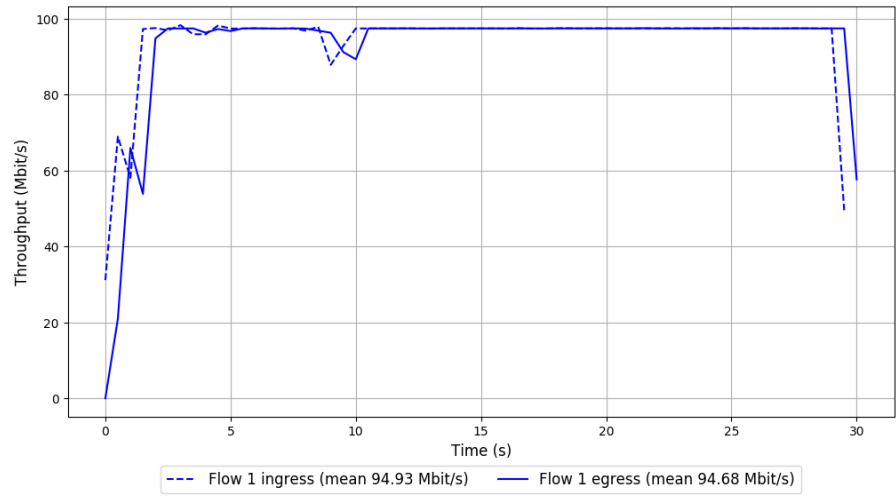


Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 03:32:47
End at: 2019-12-11 03:33:17
Local clock offset: 1.373 ms
Remote clock offset: -0.322 ms

Below is generated by plot.py at 2019-12-11 05:16:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.68 Mbit/s
95th percentile per-packet one-way delay: 42.449 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 94.68 Mbit/s
95th percentile per-packet one-way delay: 42.449 ms
Loss rate: 0.24%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 04:02:19

End at: 2019-12-11 04:02:49

Local clock offset: 6.619 ms

Remote clock offset: 1.101 ms

Below is generated by plot.py at 2019-12-11 05:16:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.84 Mbit/s

95th percentile per-packet one-way delay: 42.672 ms

Loss rate: 0.10%

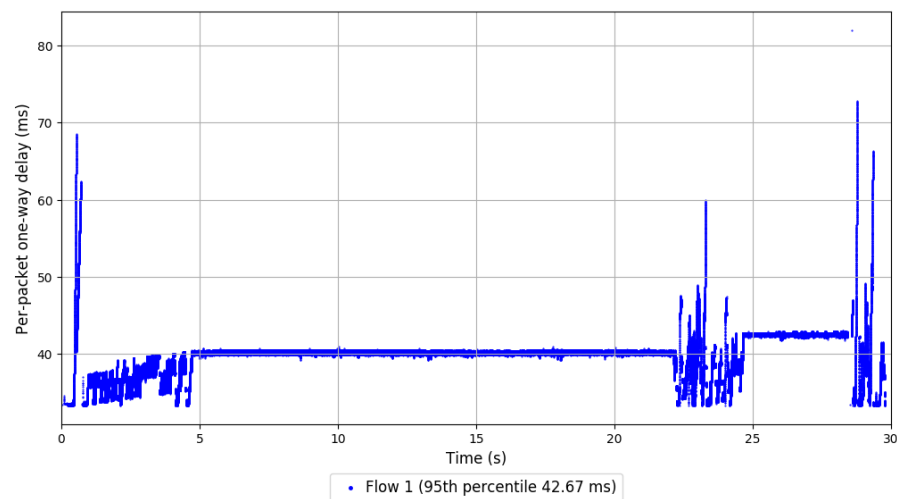
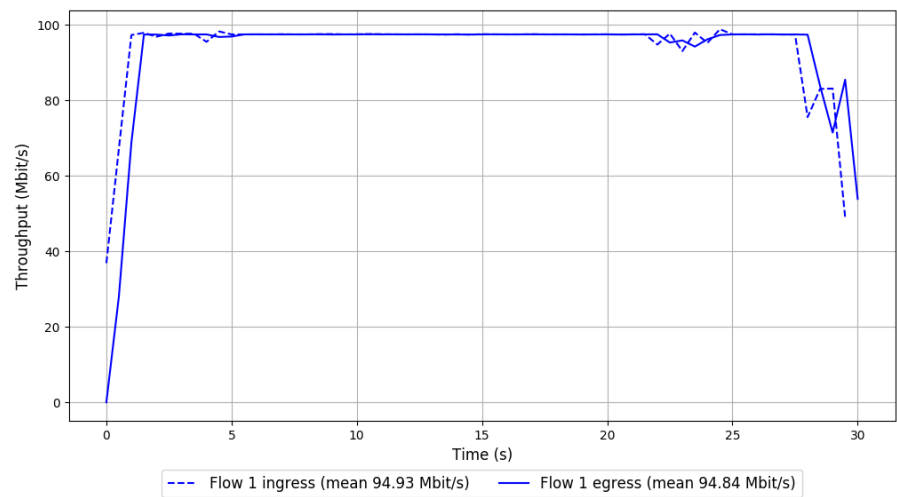
-- Flow 1:

Average throughput: 94.84 Mbit/s

95th percentile per-packet one-way delay: 42.672 ms

Loss rate: 0.10%

Run 3: Report of Muses_DecisionTreeH0 — Data Link

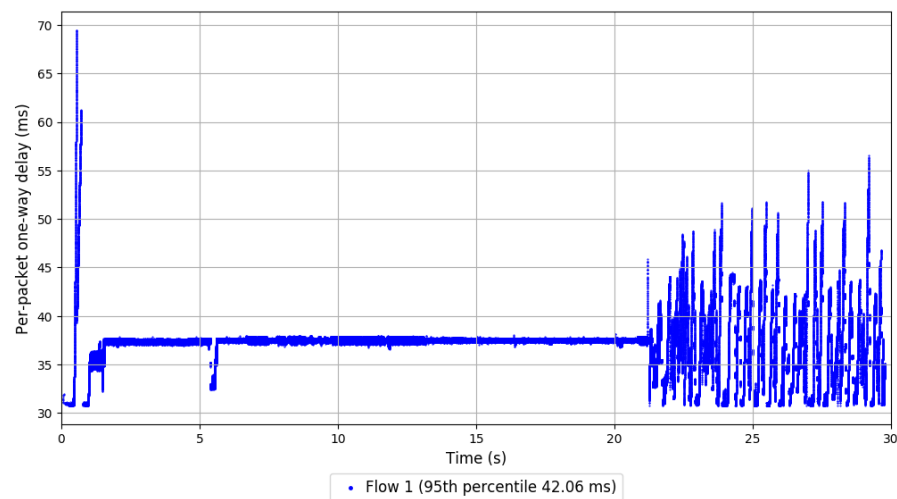
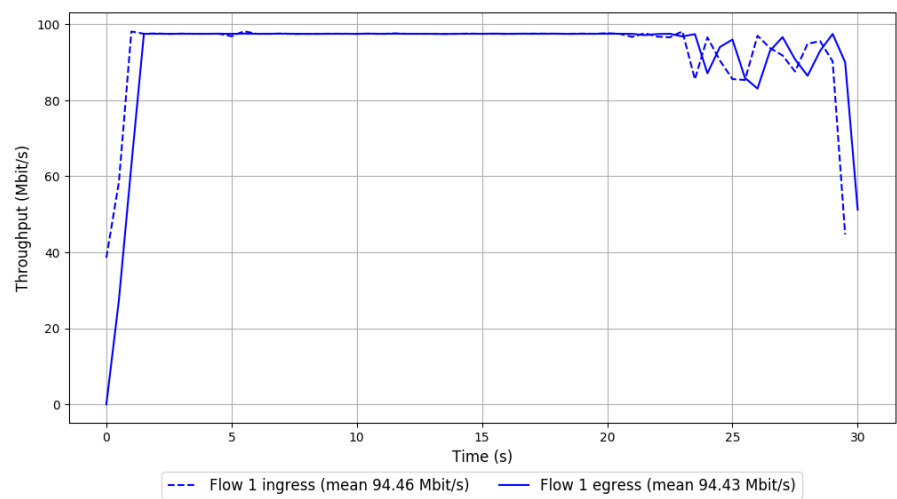


Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 04:31:24
End at: 2019-12-11 04:31:54
Local clock offset: 4.331 ms
Remote clock offset: -2.669 ms

Below is generated by plot.py at 2019-12-11 05:16:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.43 Mbit/s
95th percentile per-packet one-way delay: 42.062 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 94.43 Mbit/s
95th percentile per-packet one-way delay: 42.062 ms
Loss rate: 0.03%

Run 4: Report of Muses_DecisionTreeH0 — Data Link

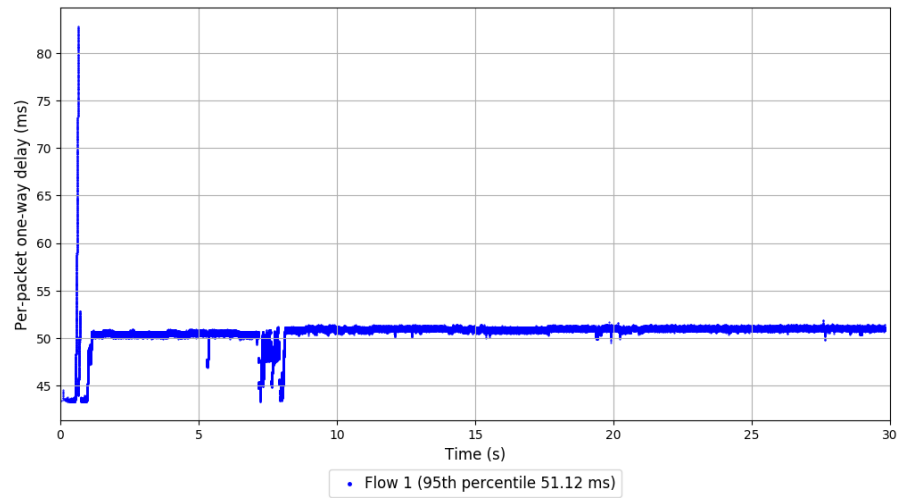
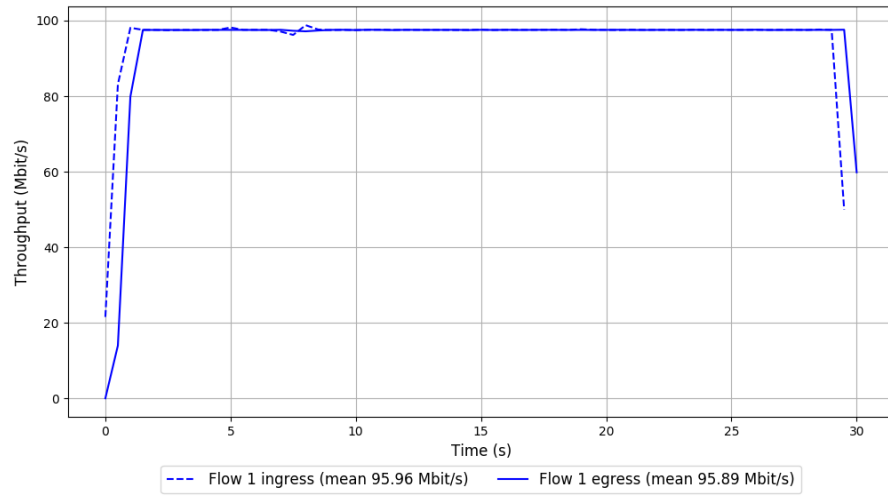


Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 05:00:16
End at: 2019-12-11 05:00:46
Local clock offset: 0.258 ms
Remote clock offset: -3.213 ms

Below is generated by plot.py at 2019-12-11 05:16:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.89 Mbit/s
95th percentile per-packet one-way delay: 51.121 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 95.89 Mbit/s
95th percentile per-packet one-way delay: 51.121 ms
Loss rate: 0.05%

Run 5: Report of Muses_DecisionTreeH0 — Data Link

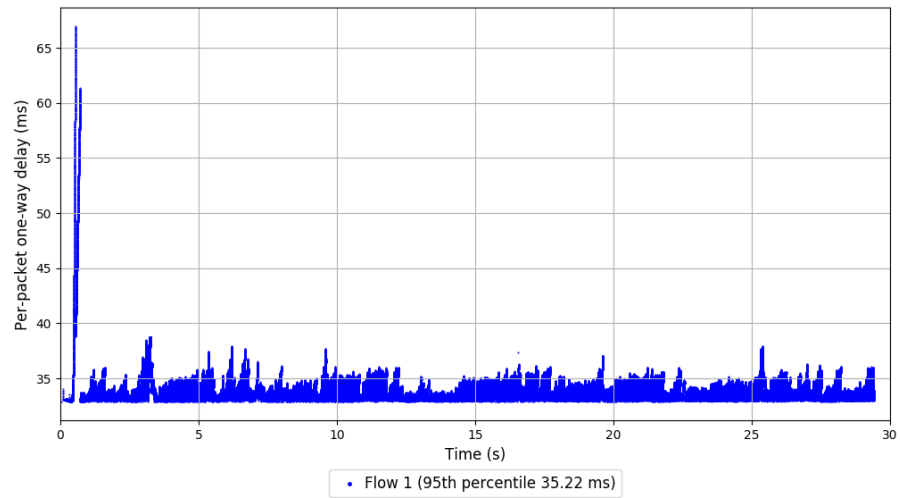
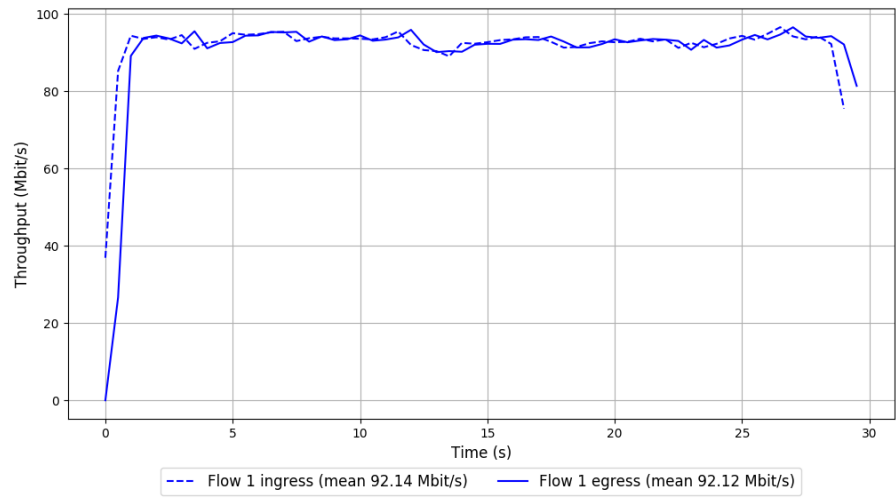


Run 1: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 02:50:52
End at: 2019-12-11 02:51:22
Local clock offset: 5.084 ms
Remote clock offset: -0.642 ms

Below is generated by plot.py at 2019-12-11 05:17:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.12 Mbit/s
95th percentile per-packet one-way delay: 35.224 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 92.12 Mbit/s
95th percentile per-packet one-way delay: 35.224 ms
Loss rate: 0.02%

Run 1: Report of Muses_DecisionTreeR0 — Data Link

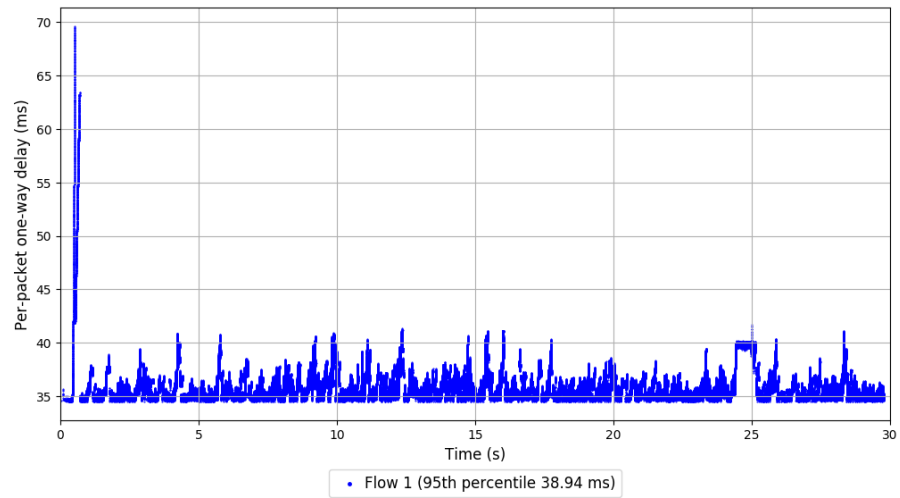
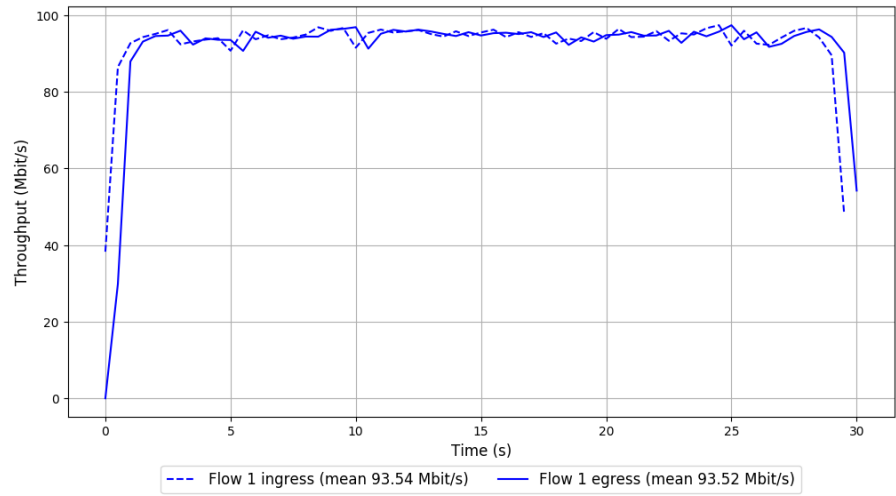


Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 03:19:49
End at: 2019-12-11 03:20:19
Local clock offset: 0.917 ms
Remote clock offset: -1.113 ms

Below is generated by plot.py at 2019-12-11 05:17:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.52 Mbit/s
95th percentile per-packet one-way delay: 38.940 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 93.52 Mbit/s
95th percentile per-packet one-way delay: 38.940 ms
Loss rate: 0.02%

Run 2: Report of Muses_DecisionTreeR0 — Data Link

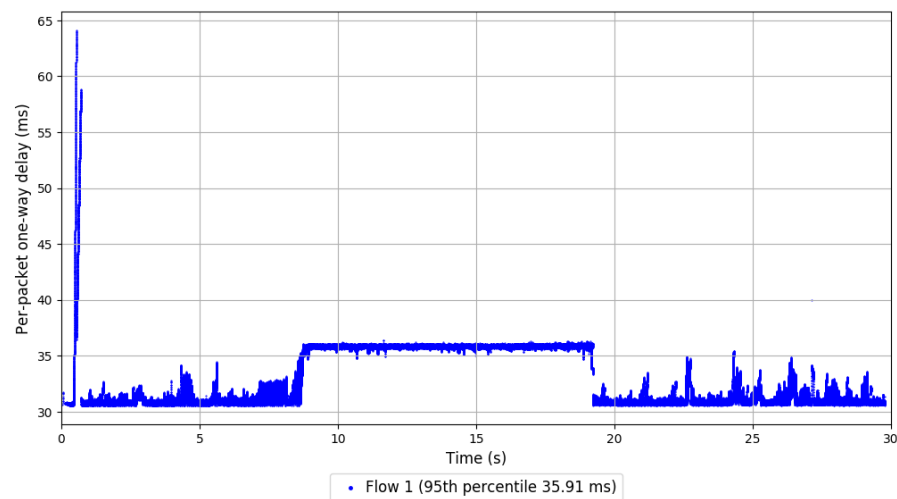
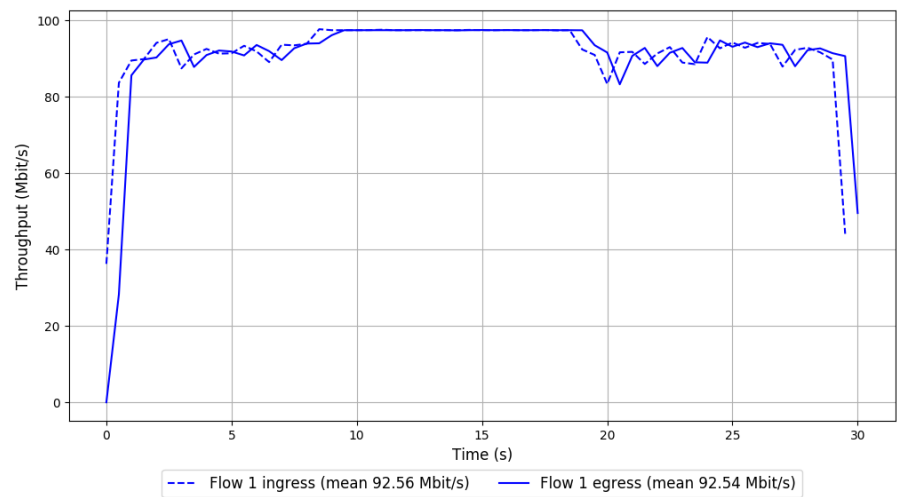


Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 03:49:31
End at: 2019-12-11 03:50:01
Local clock offset: 1.5 ms
Remote clock offset: -6.188 ms

Below is generated by plot.py at 2019-12-11 05:17:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.54 Mbit/s
95th percentile per-packet one-way delay: 35.906 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 92.54 Mbit/s
95th percentile per-packet one-way delay: 35.906 ms
Loss rate: 0.01%

Run 3: Report of Muses_DecisionTreeR0 — Data Link

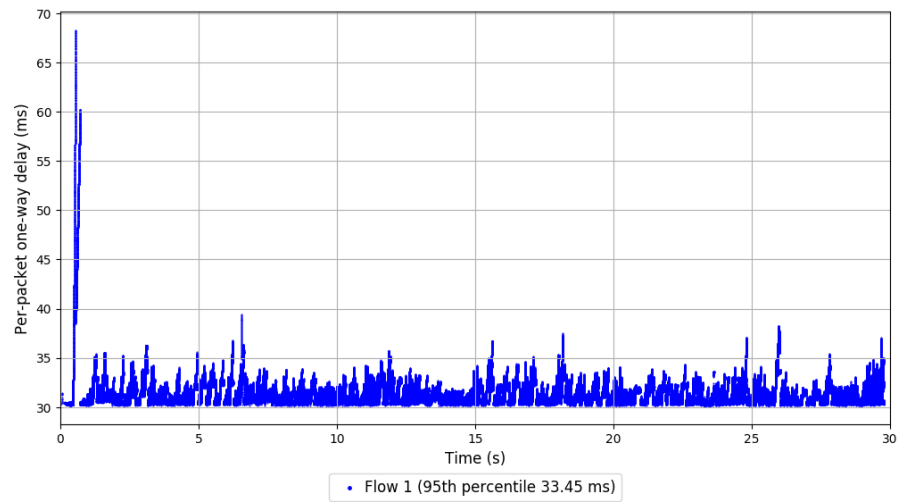
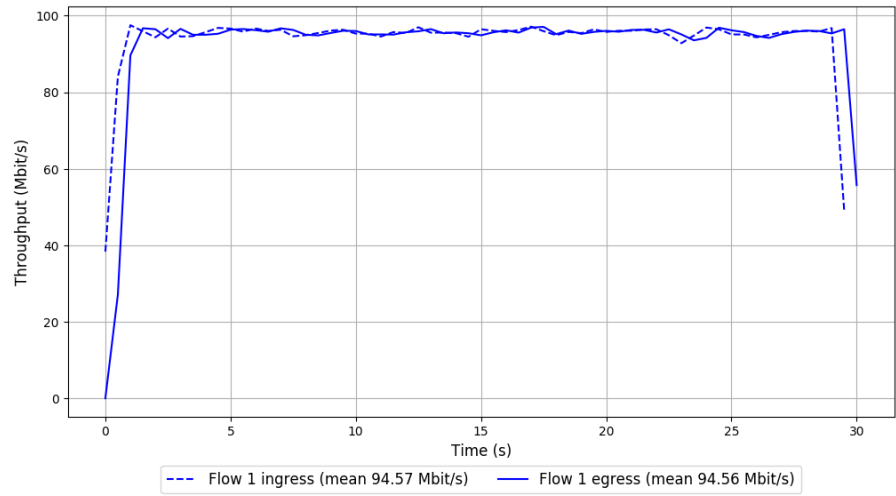


Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 04:18:57
End at: 2019-12-11 04:19:27
Local clock offset: 5.881 ms
Remote clock offset: -2.035 ms

Below is generated by plot.py at 2019-12-11 05:17:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.56 Mbit/s
95th percentile per-packet one-way delay: 33.455 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 94.56 Mbit/s
95th percentile per-packet one-way delay: 33.455 ms
Loss rate: 0.01%

Run 4: Report of Muses_DecisionTreeR0 — Data Link

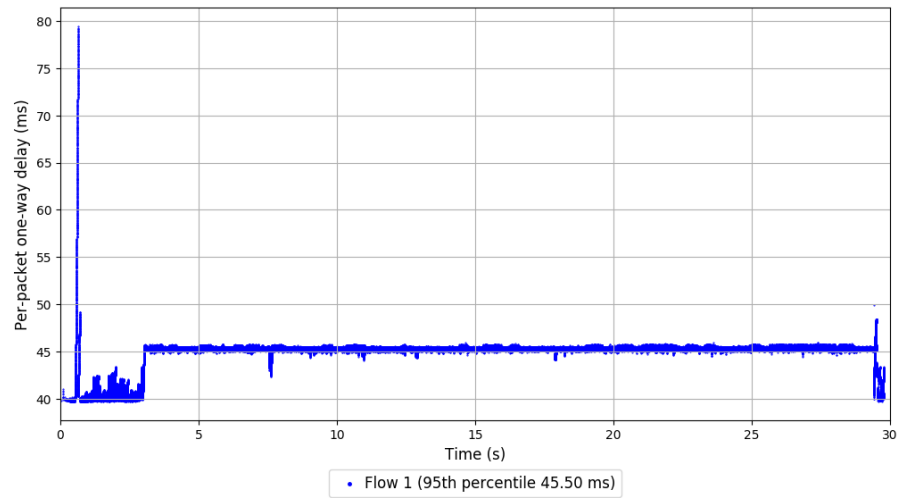
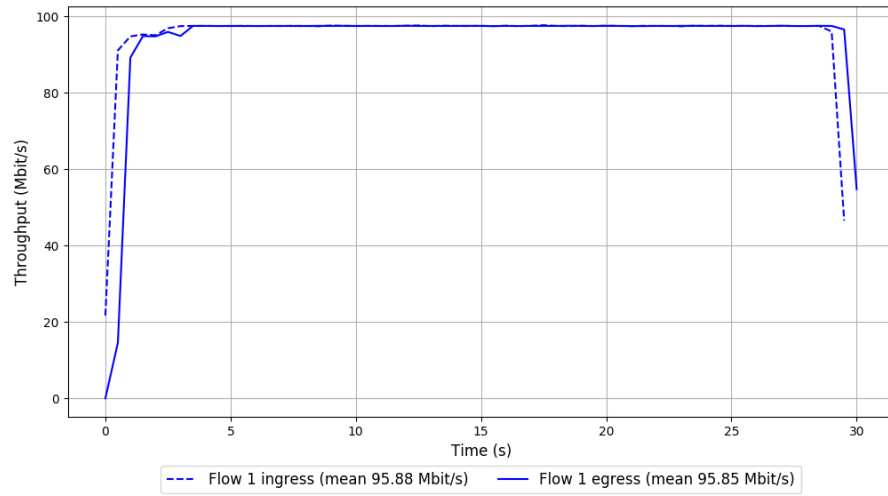


Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 04:47:54
End at: 2019-12-11 04:48:24
Local clock offset: 4.599 ms
Remote clock offset: -1.622 ms

Below is generated by plot.py at 2019-12-11 05:17:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.85 Mbit/s
95th percentile per-packet one-way delay: 45.499 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 95.85 Mbit/s
95th percentile per-packet one-way delay: 45.499 ms
Loss rate: 0.04%

Run 5: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-12-11 03:00:44

End at: 2019-12-11 03:01:14

Local clock offset: 0.56 ms

Remote clock offset: -0.843 ms

Below is generated by plot.py at 2019-12-11 05:17:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.47 Mbit/s

95th percentile per-packet one-way delay: 38.058 ms

Loss rate: 0.49%

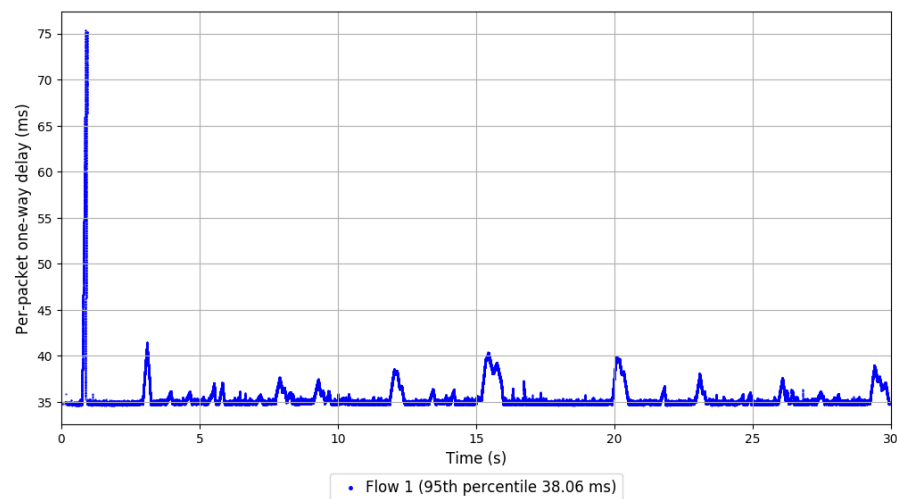
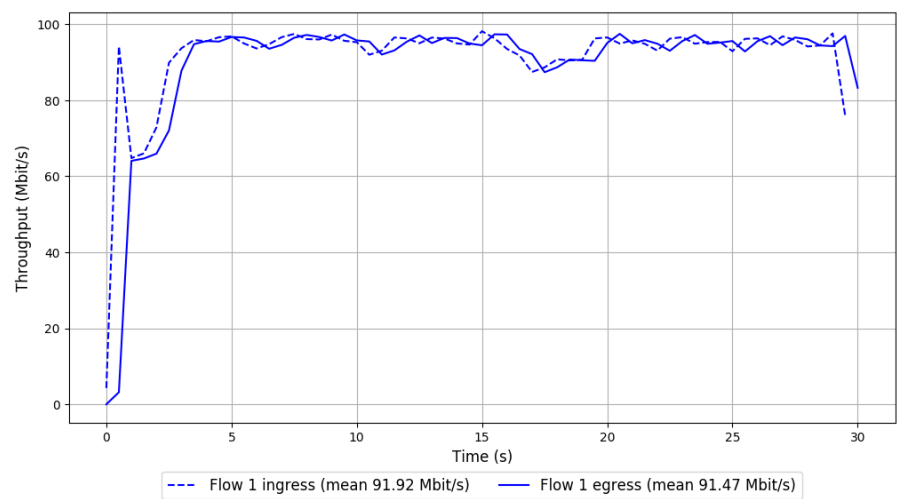
-- Flow 1:

Average throughput: 91.47 Mbit/s

95th percentile per-packet one-way delay: 38.058 ms

Loss rate: 0.49%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-12-11 03:30:16

End at: 2019-12-11 03:30:46

Local clock offset: 4.698 ms

Remote clock offset: -2.289 ms

Below is generated by plot.py at 2019-12-11 05:18:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.49 Mbit/s

95th percentile per-packet one-way delay: 33.426 ms

Loss rate: 0.51%

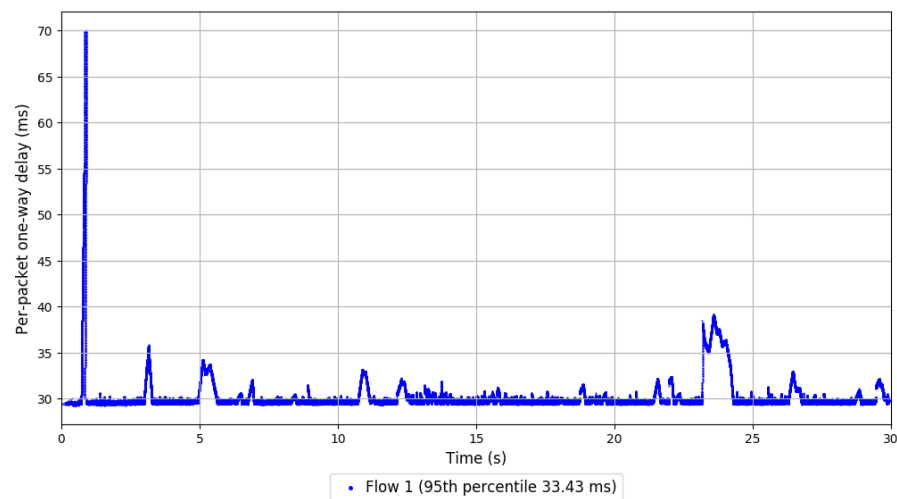
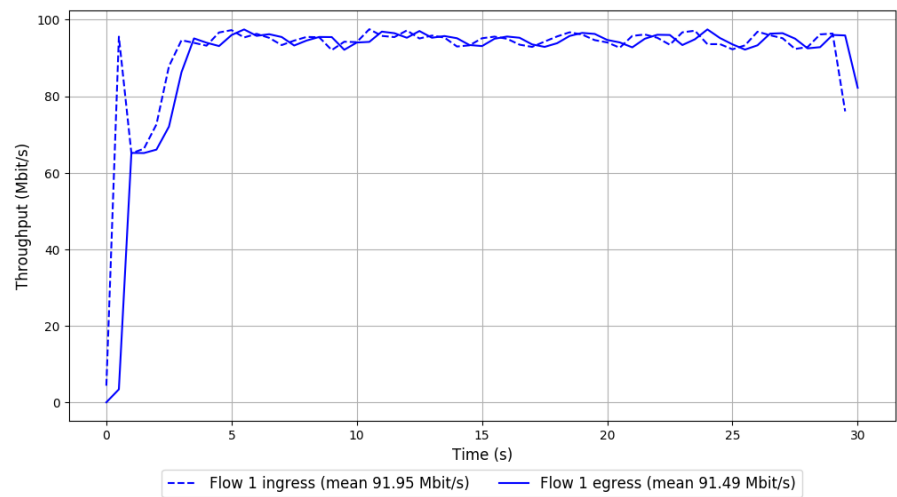
-- Flow 1:

Average throughput: 91.49 Mbit/s

95th percentile per-packet one-way delay: 33.426 ms

Loss rate: 0.51%

Run 2: Report of PCC-Allegro — Data Link

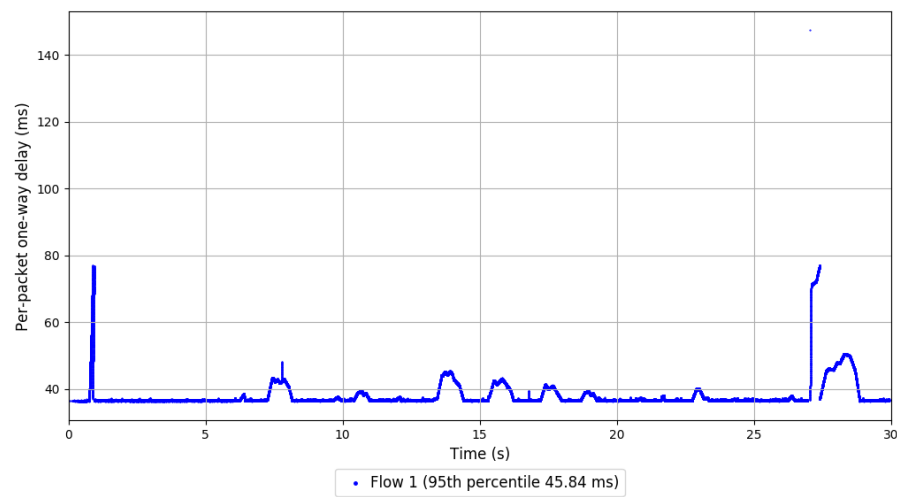
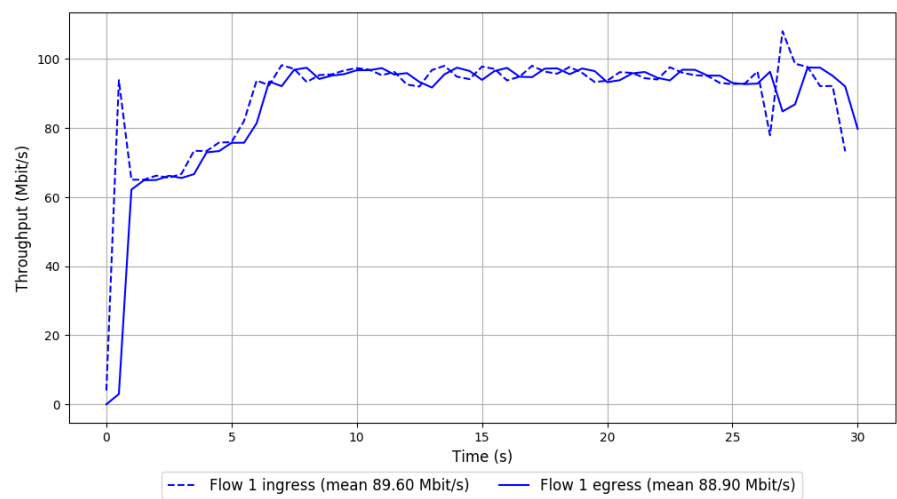


Run 3: Statistics of PCC-Allegro

Start at: 2019-12-11 03:59:41
End at: 2019-12-11 04:00:11
Local clock offset: 1.696 ms
Remote clock offset: -0.748 ms

Below is generated by plot.py at 2019-12-11 05:18:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.90 Mbit/s
95th percentile per-packet one-way delay: 45.843 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 88.90 Mbit/s
95th percentile per-packet one-way delay: 45.843 ms
Loss rate: 0.78%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-12-11 04:28:59

End at: 2019-12-11 04:29:29

Local clock offset: 1.549 ms

Remote clock offset: -1.427 ms

Below is generated by plot.py at 2019-12-11 05:18:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.26 Mbit/s

95th percentile per-packet one-way delay: 49.440 ms

Loss rate: 0.64%

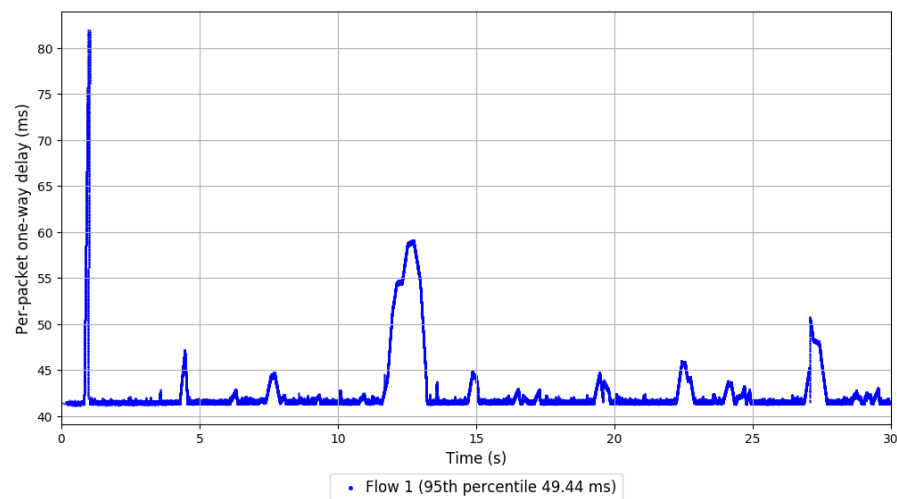
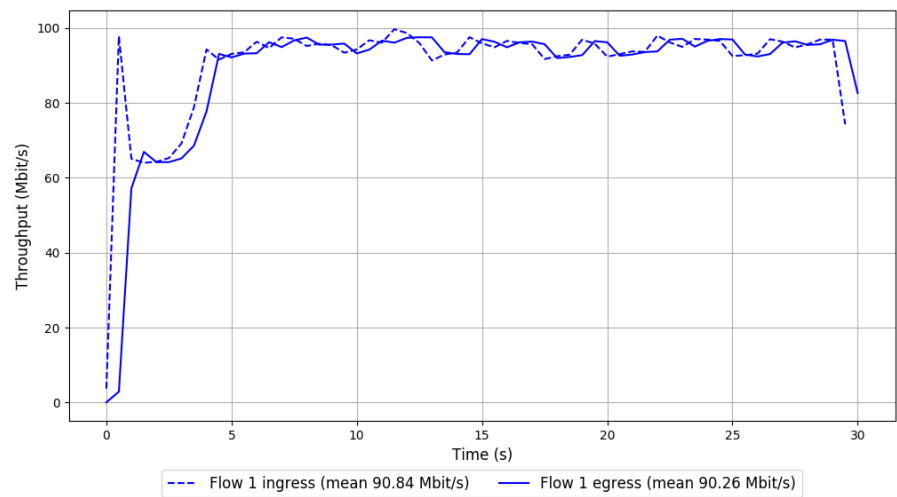
-- Flow 1:

Average throughput: 90.26 Mbit/s

95th percentile per-packet one-way delay: 49.440 ms

Loss rate: 0.64%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-12-11 04:57:47

End at: 2019-12-11 04:58:17

Local clock offset: 0.746 ms

Remote clock offset: -2.781 ms

Below is generated by plot.py at 2019-12-11 05:18:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.06 Mbit/s

95th percentile per-packet one-way delay: 48.315 ms

Loss rate: 0.67%

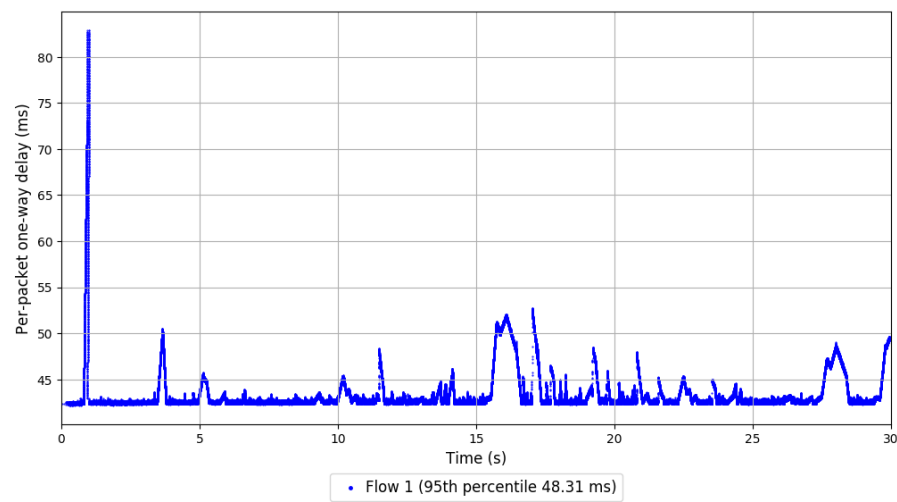
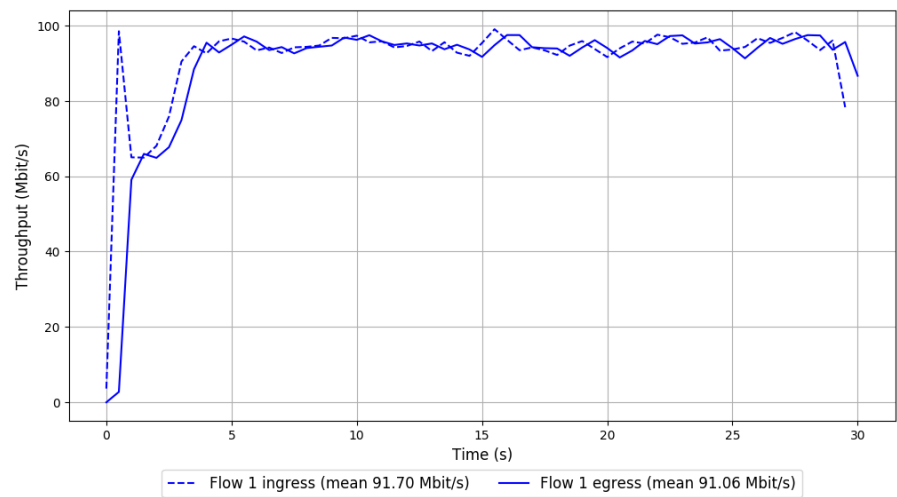
-- Flow 1:

Average throughput: 91.06 Mbit/s

95th percentile per-packet one-way delay: 48.315 ms

Loss rate: 0.67%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-12-11 02:45:05
End at: 2019-12-11 02:45:35
Local clock offset: 5.175 ms
Remote clock offset: -1.098 ms

Below is generated by plot.py at 2019-12-11 05:18:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.07 Mbit/s

95th percentile per-packet one-way delay: 32.229 ms

Loss rate: 52.14%

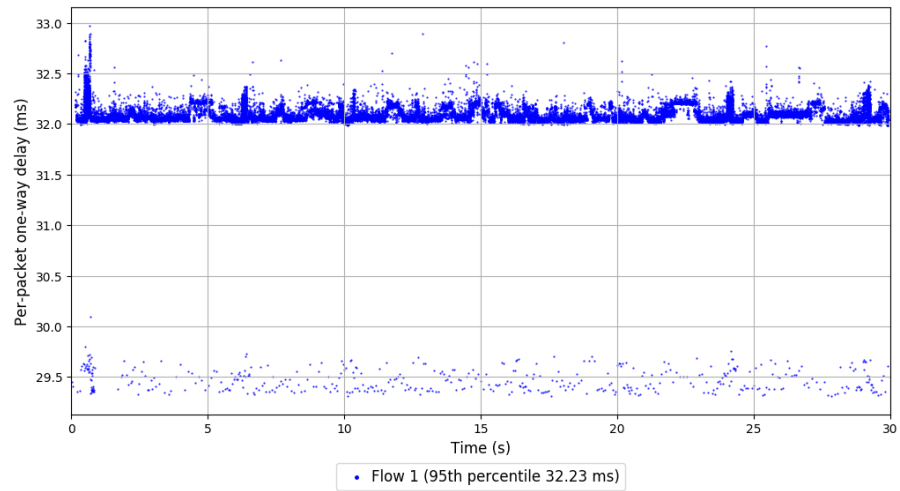
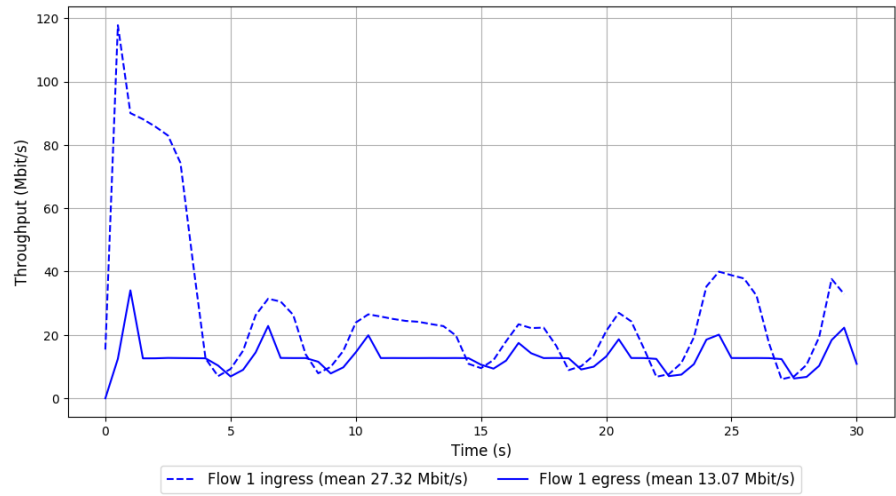
-- Flow 1:

Average throughput: 13.07 Mbit/s

95th percentile per-packet one-way delay: 32.229 ms

Loss rate: 52.14%

Run 1: Report of PCC-Expr — Data Link

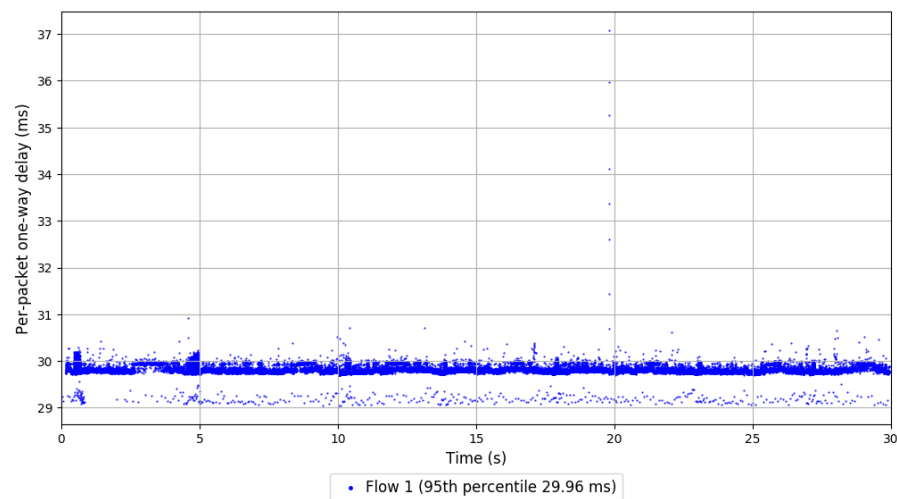
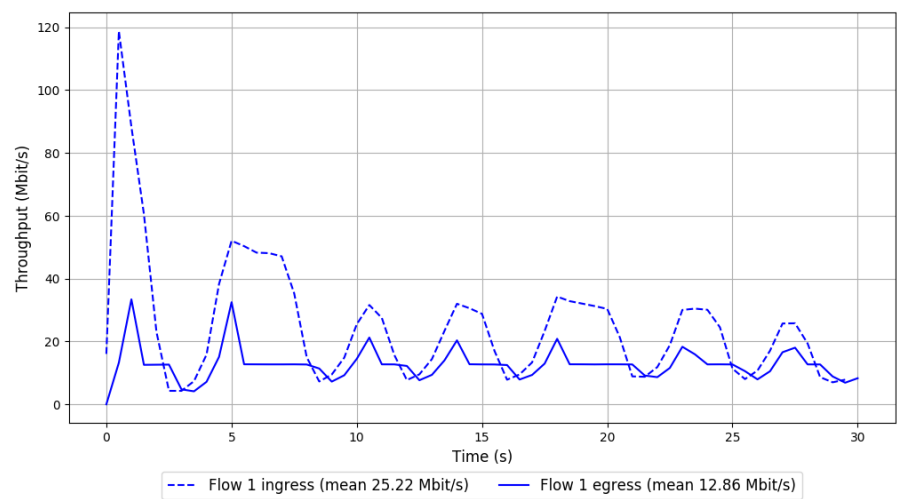


Run 2: Statistics of PCC-Expr

Start at: 2019-12-11 03:13:50
End at: 2019-12-11 03:14:20
Local clock offset: 5.369 ms
Remote clock offset: -2.282 ms

Below is generated by plot.py at 2019-12-11 05:18:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.86 Mbit/s
95th percentile per-packet one-way delay: 29.959 ms
Loss rate: 49.00%
-- Flow 1:
Average throughput: 12.86 Mbit/s
95th percentile per-packet one-way delay: 29.959 ms
Loss rate: 49.00%

Run 2: Report of PCC-Expr — Data Link

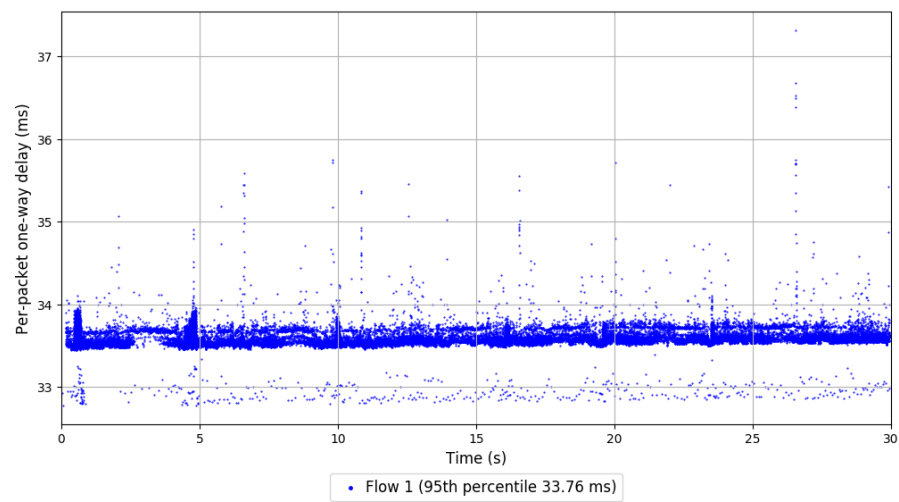
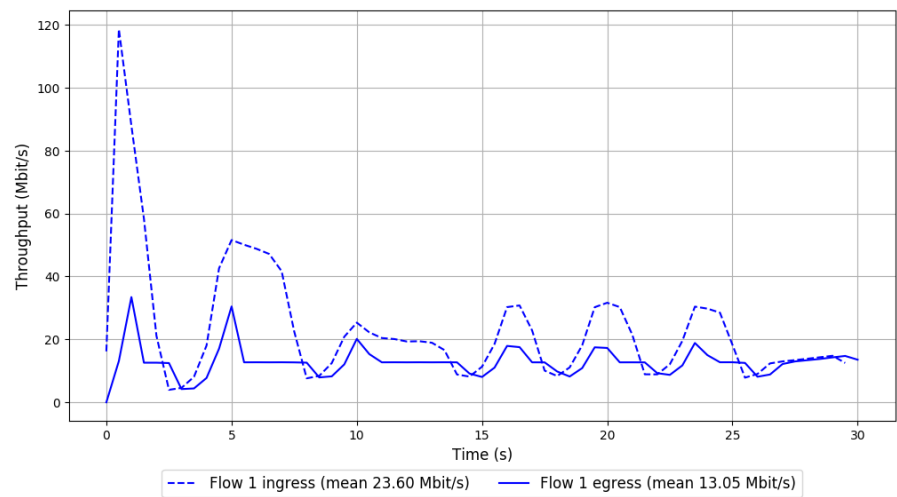


Run 3: Statistics of PCC-Expr

Start at: 2019-12-11 03:43:43
End at: 2019-12-11 03:44:13
Local clock offset: 2.605 ms
Remote clock offset: -2.131 ms

Below is generated by plot.py at 2019-12-11 05:18:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.05 Mbit/s
95th percentile per-packet one-way delay: 33.755 ms
Loss rate: 44.70%
-- Flow 1:
Average throughput: 13.05 Mbit/s
95th percentile per-packet one-way delay: 33.755 ms
Loss rate: 44.70%

Run 3: Report of PCC-Expr — Data Link

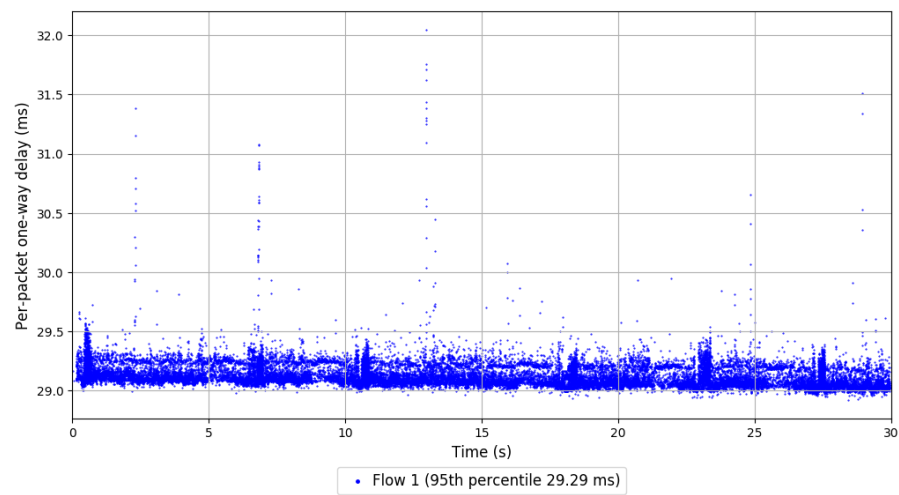
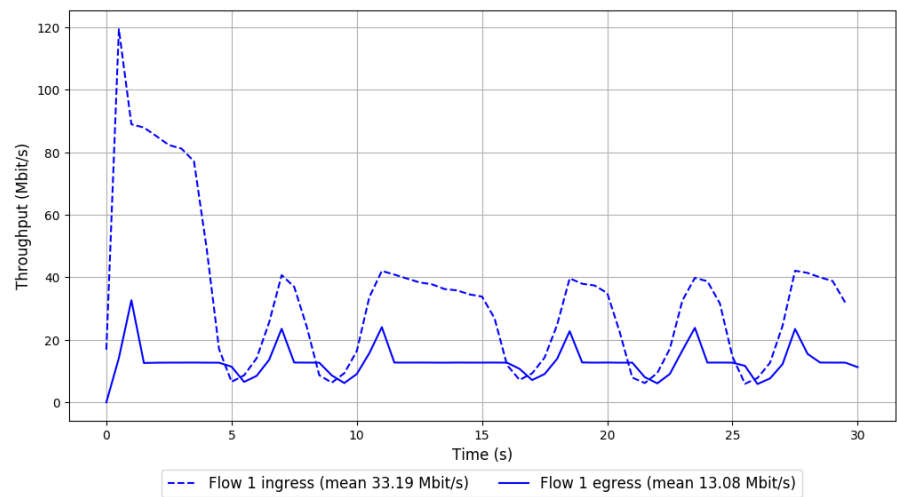


Run 4: Statistics of PCC-Expr

Start at: 2019-12-11 04:13:05
End at: 2019-12-11 04:13:35
Local clock offset: 5.803 ms
Remote clock offset: -3.154 ms

Below is generated by plot.py at 2019-12-11 05:18:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.08 Mbit/s
95th percentile per-packet one-way delay: 29.287 ms
Loss rate: 60.60%
-- Flow 1:
Average throughput: 13.08 Mbit/s
95th percentile per-packet one-way delay: 29.287 ms
Loss rate: 60.60%

Run 4: Report of PCC-Expr — Data Link

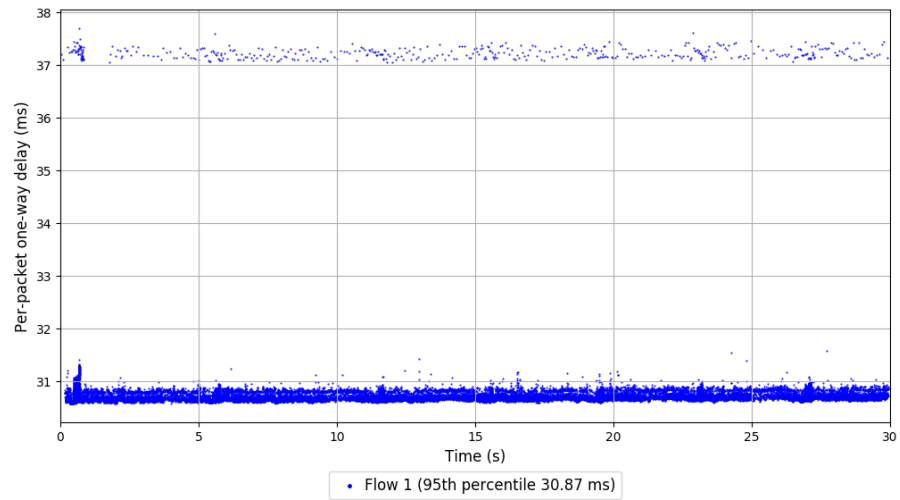
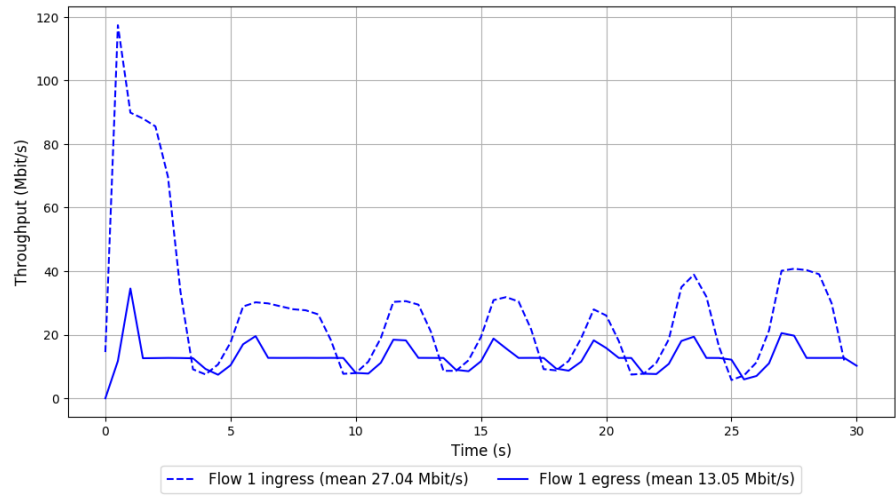


Run 5: Statistics of PCC-Expr

Start at: 2019-12-11 04:42:06
End at: 2019-12-11 04:42:36
Local clock offset: 4.622 ms
Remote clock offset: -3.048 ms

Below is generated by plot.py at 2019-12-11 05:18:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.05 Mbit/s
95th percentile per-packet one-way delay: 30.867 ms
Loss rate: 51.73%
-- Flow 1:
Average throughput: 13.05 Mbit/s
95th percentile per-packet one-way delay: 30.867 ms
Loss rate: 51.73%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-12-11 03:06:52

End at: 2019-12-11 03:07:22

Local clock offset: 6.038 ms

Remote clock offset: -0.521 ms

Below is generated by plot.py at 2019-12-11 05:18:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.46 Mbit/s

95th percentile per-packet one-way delay: 65.273 ms

Loss rate: 1.43%

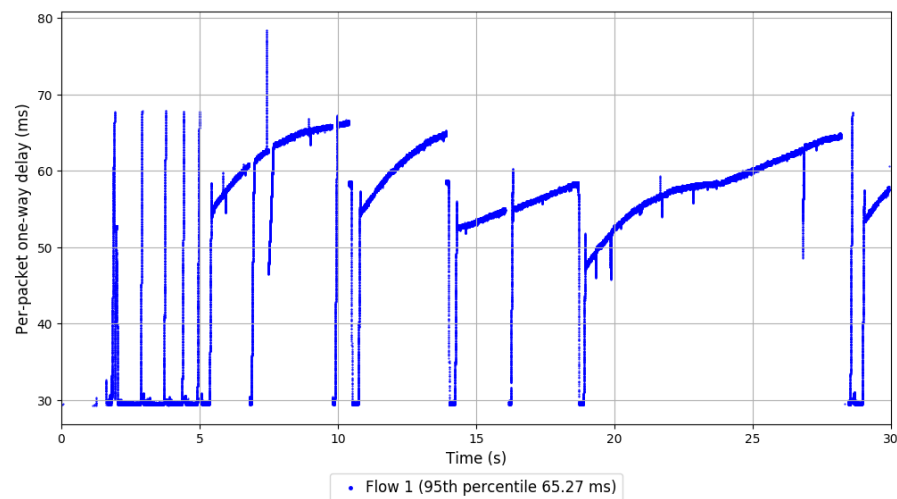
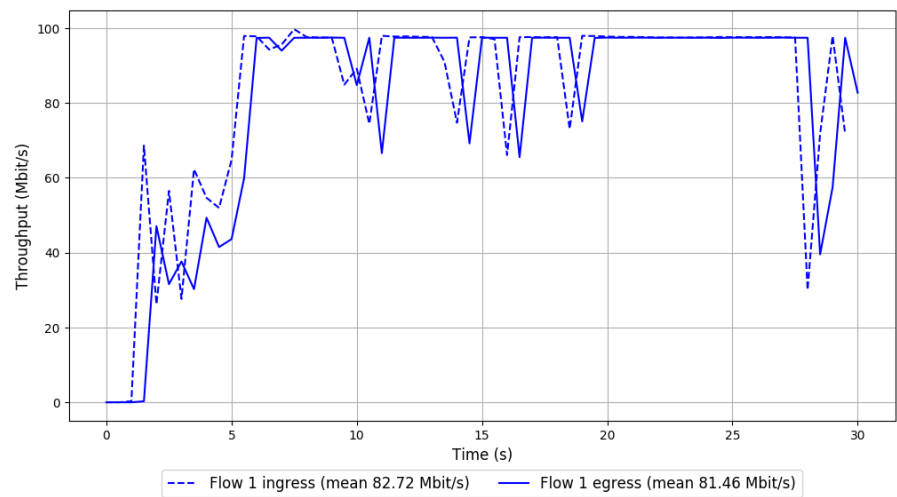
-- Flow 1:

Average throughput: 81.46 Mbit/s

95th percentile per-packet one-way delay: 65.273 ms

Loss rate: 1.43%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-12-11 03:36:42

End at: 2019-12-11 03:37:12

Local clock offset: 4.019 ms

Remote clock offset: -1.091 ms

Below is generated by plot.py at 2019-12-11 05:18:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.67 Mbit/s

95th percentile per-packet one-way delay: 60.215 ms

Loss rate: 0.93%

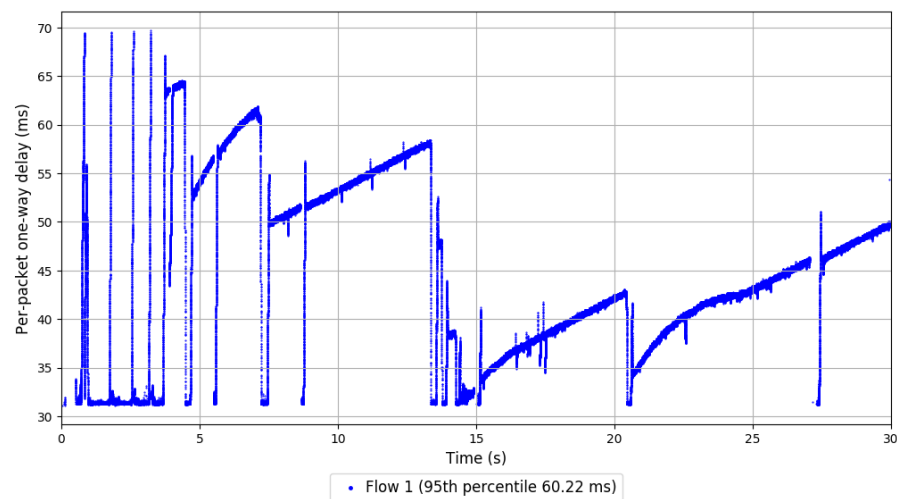
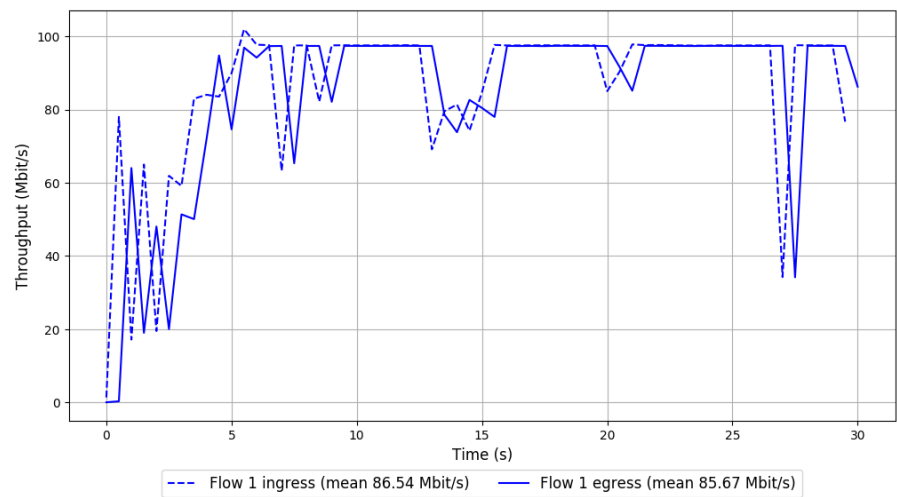
-- Flow 1:

Average throughput: 85.67 Mbit/s

95th percentile per-packet one-way delay: 60.215 ms

Loss rate: 0.93%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-12-11 04:06:13

End at: 2019-12-11 04:06:43

Local clock offset: 4.191 ms

Remote clock offset: -1.413 ms

Below is generated by plot.py at 2019-12-11 05:18:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.38 Mbit/s

95th percentile per-packet one-way delay: 64.904 ms

Loss rate: 0.99%

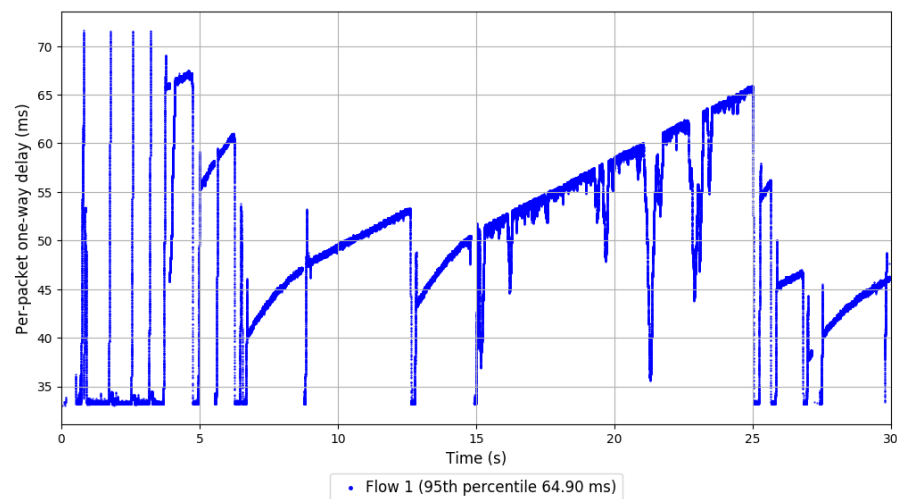
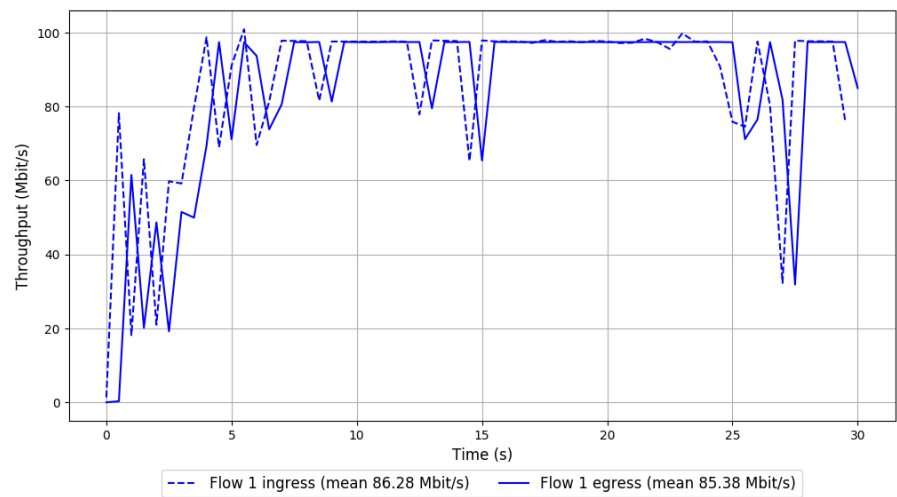
-- Flow 1:

Average throughput: 85.38 Mbit/s

95th percentile per-packet one-way delay: 64.904 ms

Loss rate: 0.99%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-12-11 04:35:05

End at: 2019-12-11 04:35:35

Local clock offset: 4.08 ms

Remote clock offset: -4.012 ms

Below is generated by plot.py at 2019-12-11 05:18:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.95 Mbit/s

95th percentile per-packet one-way delay: 43.467 ms

Loss rate: 1.00%

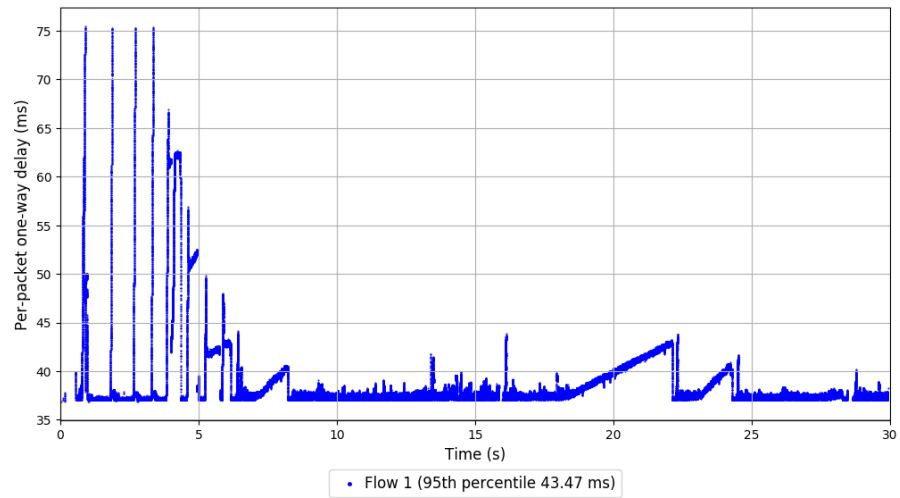
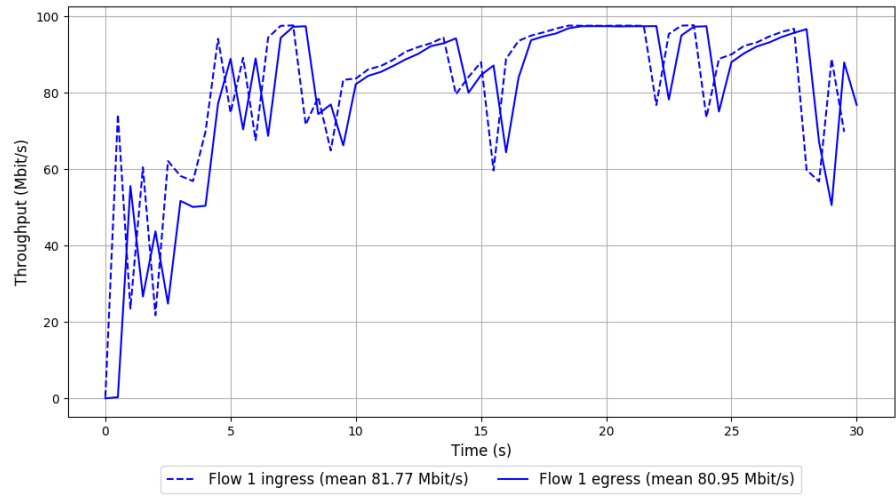
-- Flow 1:

Average throughput: 80.95 Mbit/s

95th percentile per-packet one-way delay: 43.467 ms

Loss rate: 1.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-12-11 05:03:54

End at: 2019-12-11 05:04:24

Local clock offset: -1.404 ms

Remote clock offset: -9.619 ms

Below is generated by plot.py at 2019-12-11 05:19:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.23 Mbit/s

95th percentile per-packet one-way delay: 63.360 ms

Loss rate: 1.02%

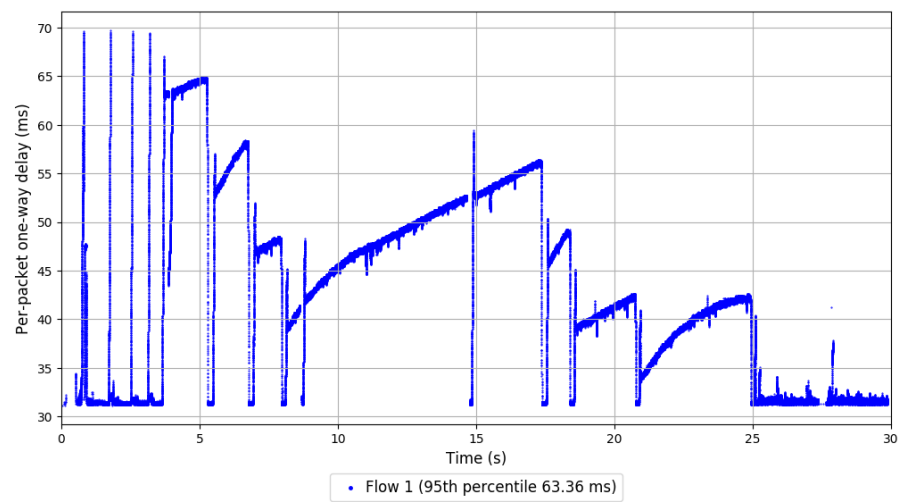
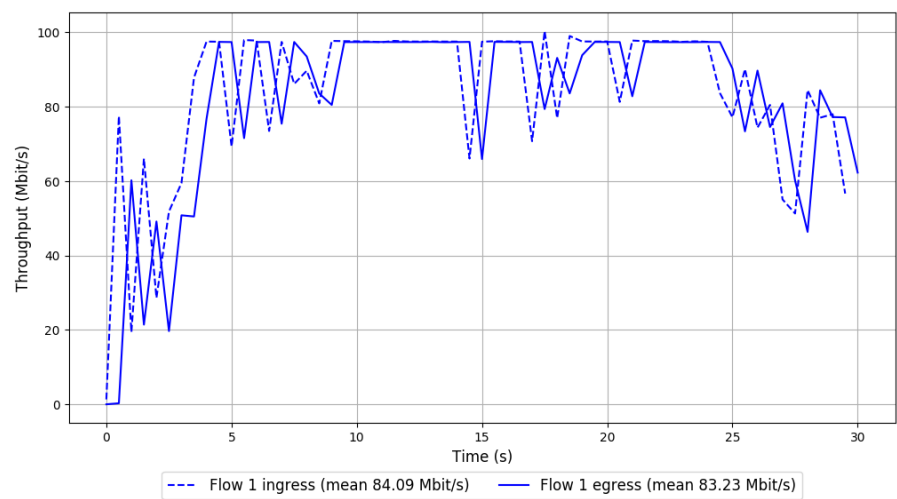
-- Flow 1:

Average throughput: 83.23 Mbit/s

95th percentile per-packet one-way delay: 63.360 ms

Loss rate: 1.02%

Run 5: Report of QUIC Cubic — Data Link

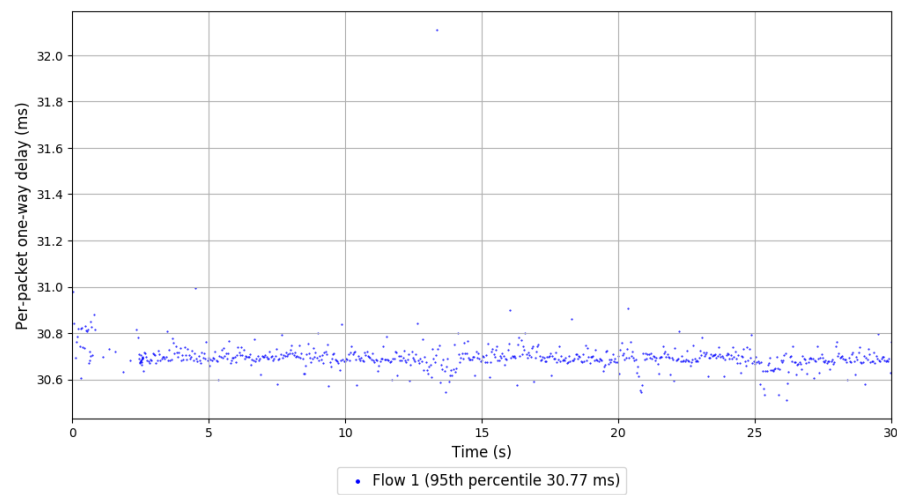
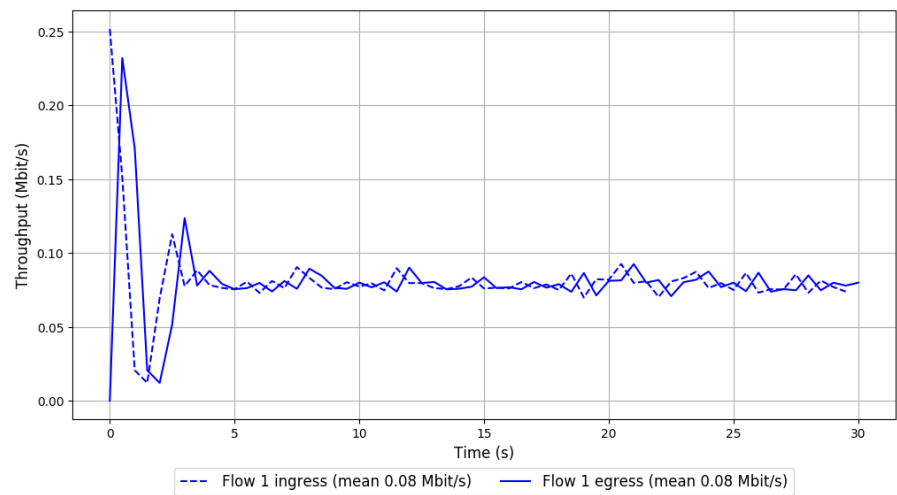


Run 1: Statistics of SCReAM

Start at: 2019-12-11 03:08:09
End at: 2019-12-11 03:08:39
Local clock offset: 4.472 ms
Remote clock offset: -1.747 ms

Below is generated by plot.py at 2019-12-11 05:19:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 30.771 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 30.771 ms
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-12-11 03:37:59

End at: 2019-12-11 03:38:29

Local clock offset: 4.069 ms

Remote clock offset: 0.481 ms

Below is generated by plot.py at 2019-12-11 05:19:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 33.105 ms

Loss rate: 0.00%

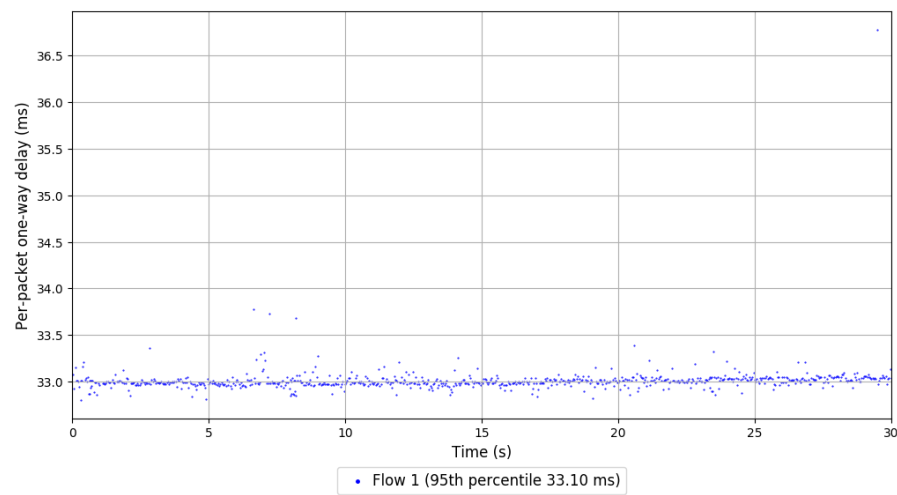
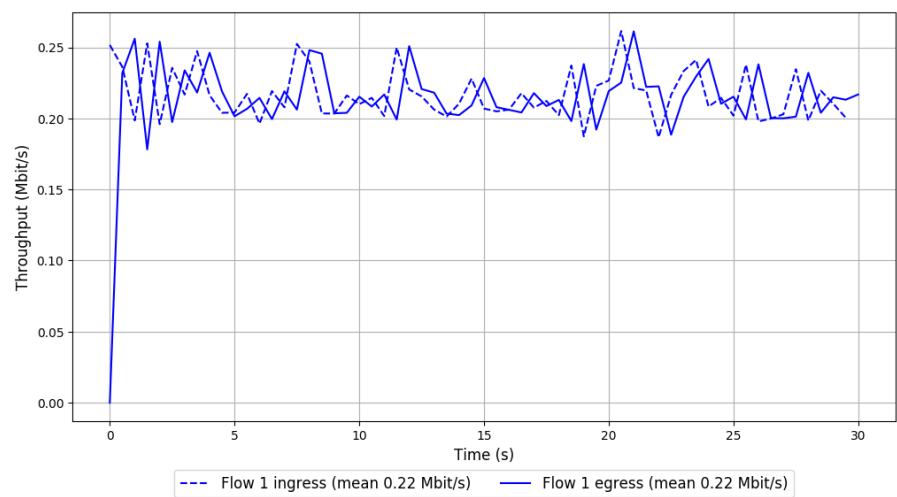
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 33.105 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

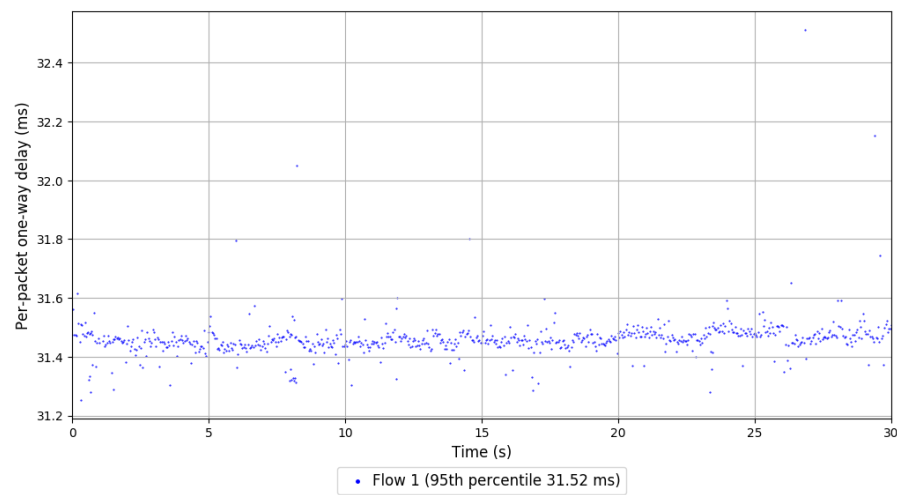
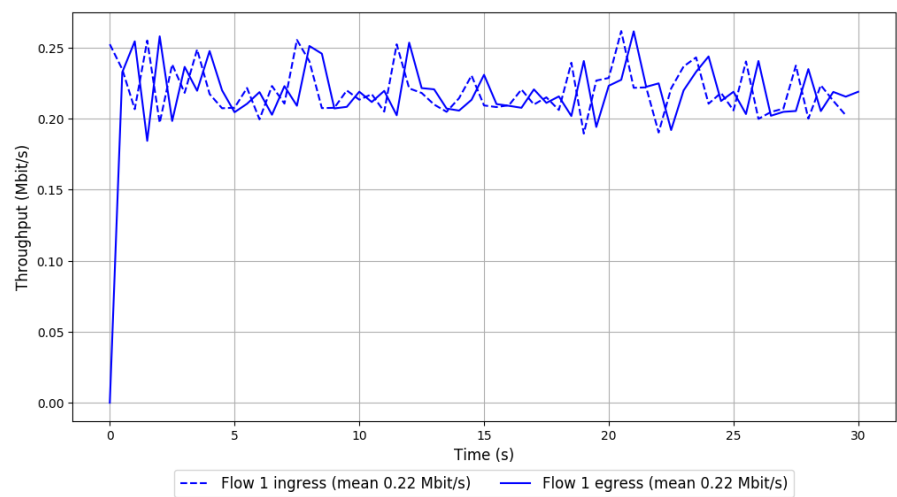


Run 3: Statistics of SCReAM

Start at: 2019-12-11 04:07:25
End at: 2019-12-11 04:07:55
Local clock offset: 5.761 ms
Remote clock offset: -2.586 ms

Below is generated by plot.py at 2019-12-11 05:19:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.517 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.517 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

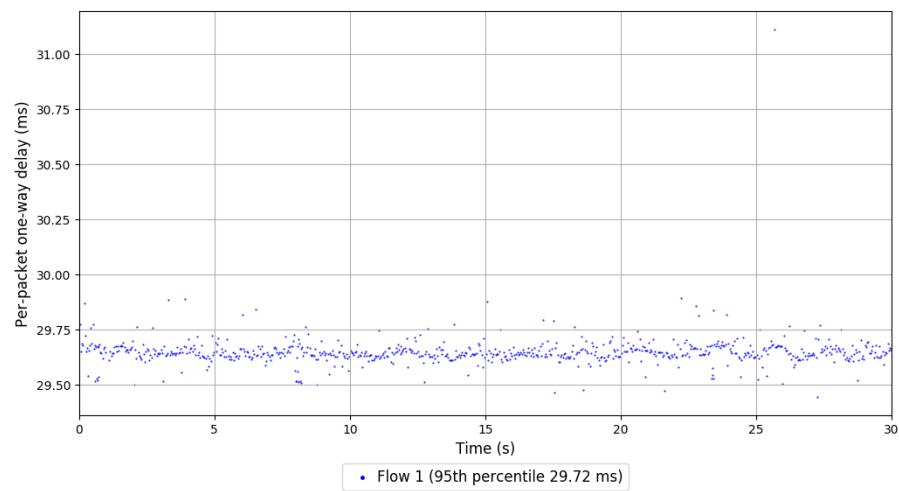
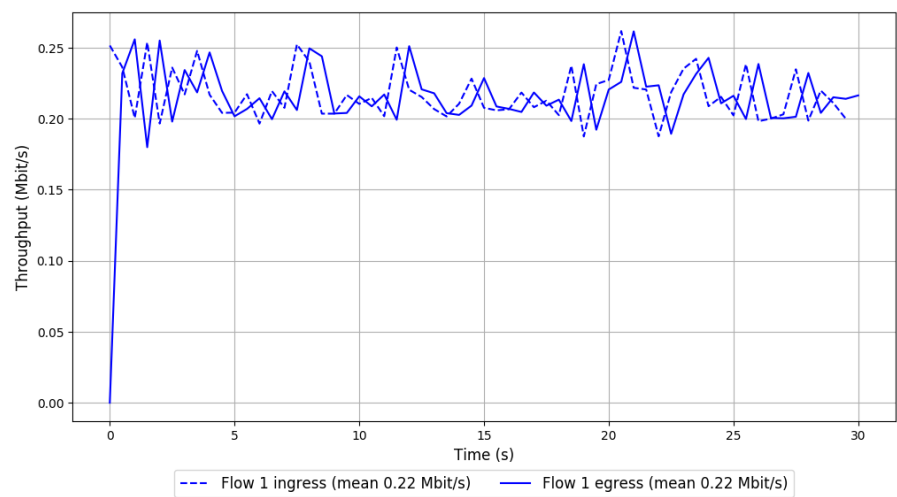


Run 4: Statistics of SCReAM

Start at: 2019-12-11 04:36:24
End at: 2019-12-11 04:36:54
Local clock offset: 4.026 ms
Remote clock offset: -3.534 ms

Below is generated by plot.py at 2019-12-11 05:19:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.718 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.718 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

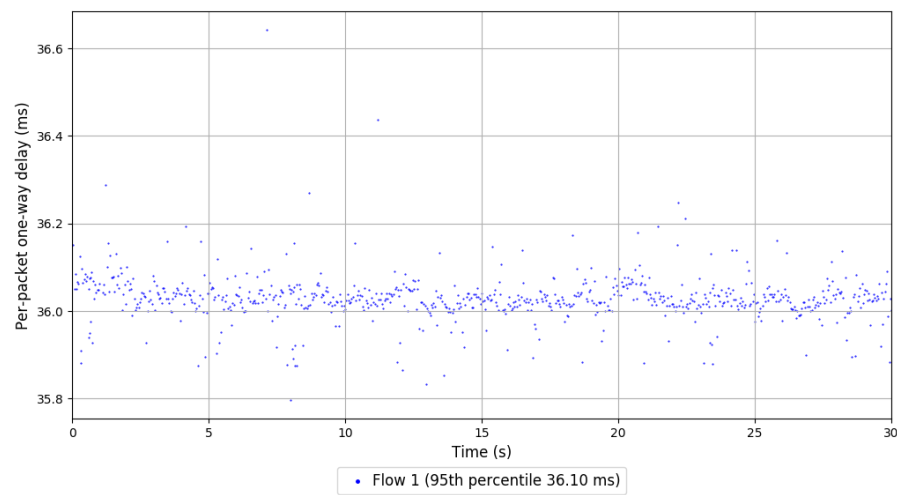
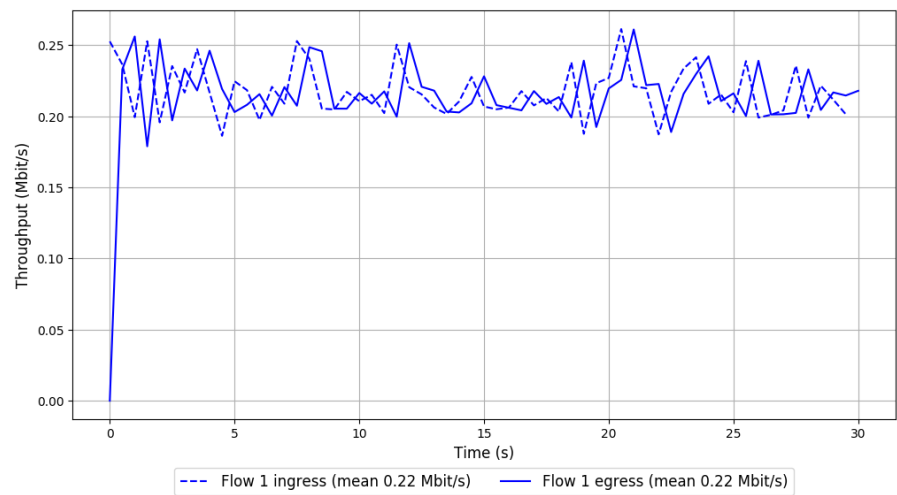


Run 5: Statistics of SCReAM

Start at: 2019-12-11 05:05:24
End at: 2019-12-11 05:05:54
Local clock offset: 1.439 ms
Remote clock offset: -1.375 ms

Below is generated by plot.py at 2019-12-11 05:19:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 36.099 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 36.099 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-12-11 02:42:43

End at: 2019-12-11 02:43:13

Local clock offset: 2.008 ms

Remote clock offset: 0.744 ms

Below is generated by plot.py at 2019-12-11 05:19:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.94 Mbit/s

95th percentile per-packet one-way delay: 38.612 ms

Loss rate: 0.07%

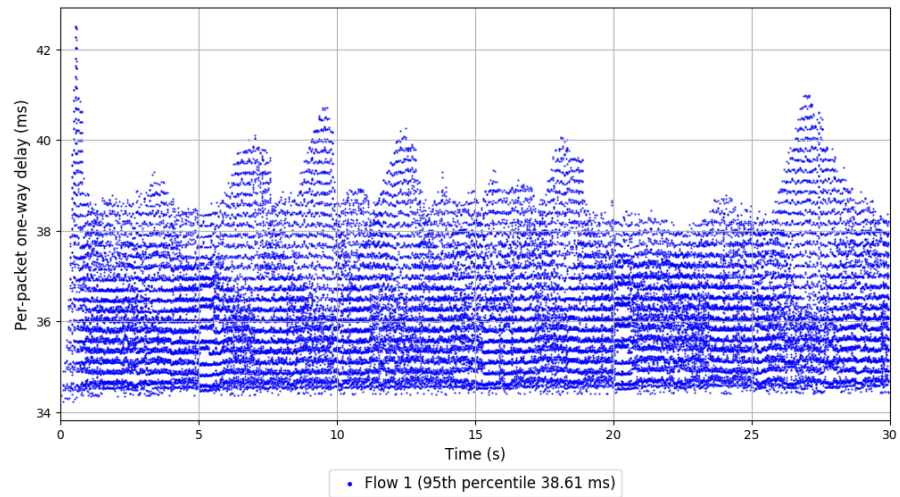
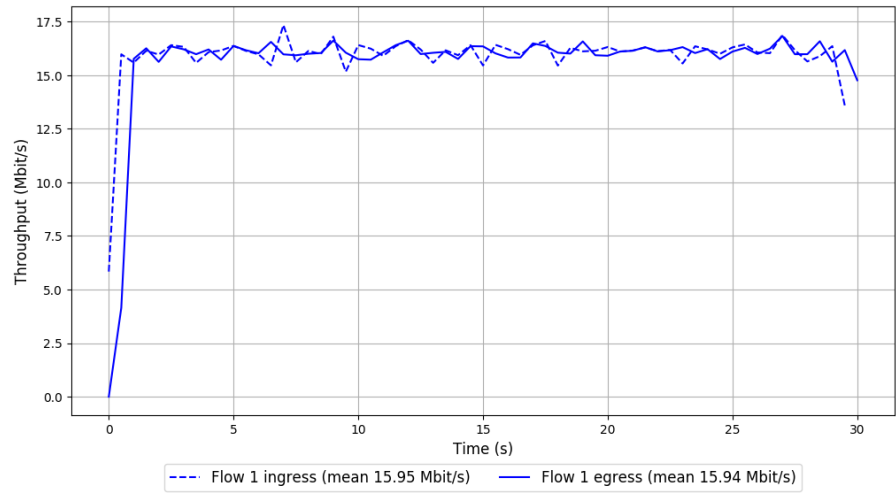
-- Flow 1:

Average throughput: 15.94 Mbit/s

95th percentile per-packet one-way delay: 38.612 ms

Loss rate: 0.07%

Run 1: Report of Sprout — Data Link

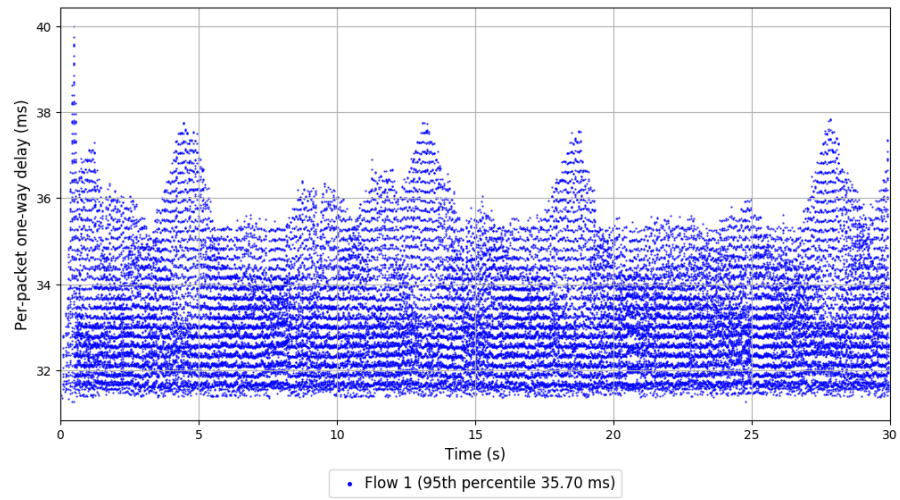
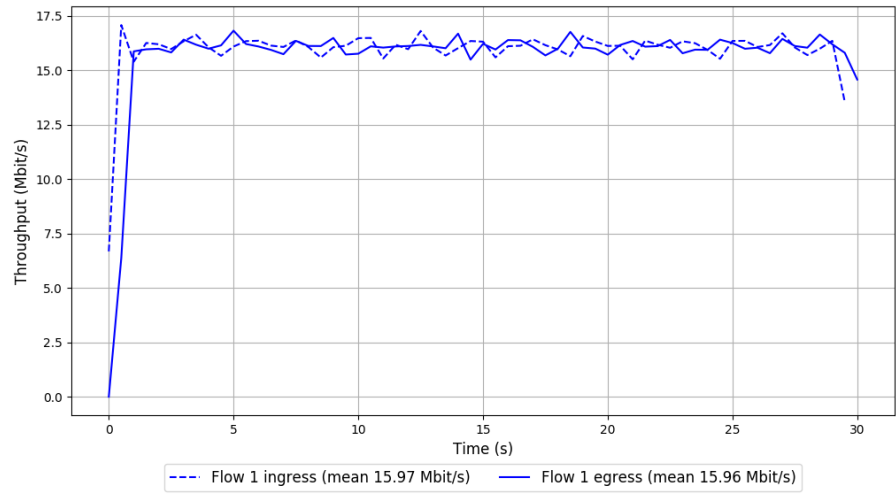


Run 2: Statistics of Sprout

Start at: 2019-12-11 03:11:27
End at: 2019-12-11 03:11:57
Local clock offset: 2.745 ms
Remote clock offset: -1.798 ms

Below is generated by plot.py at 2019-12-11 05:19:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.96 Mbit/s
95th percentile per-packet one-way delay: 35.700 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 15.96 Mbit/s
95th percentile per-packet one-way delay: 35.700 ms
Loss rate: 0.07%

Run 2: Report of Sprout — Data Link

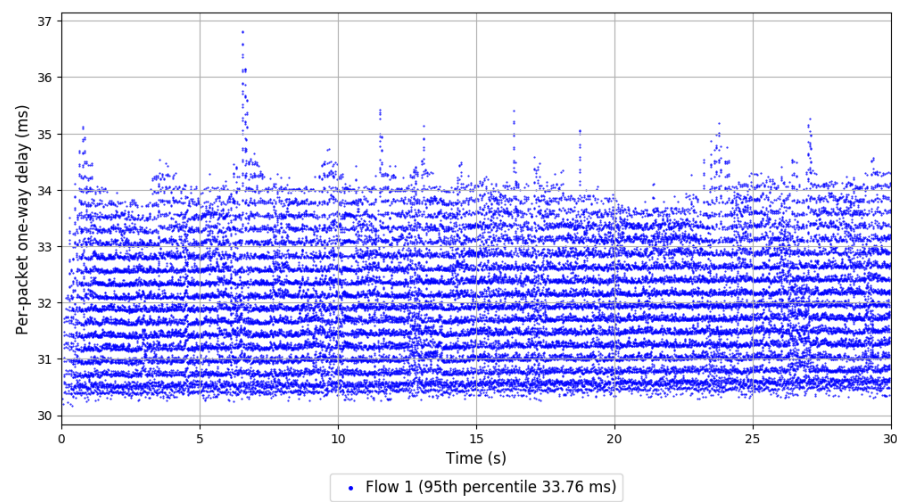
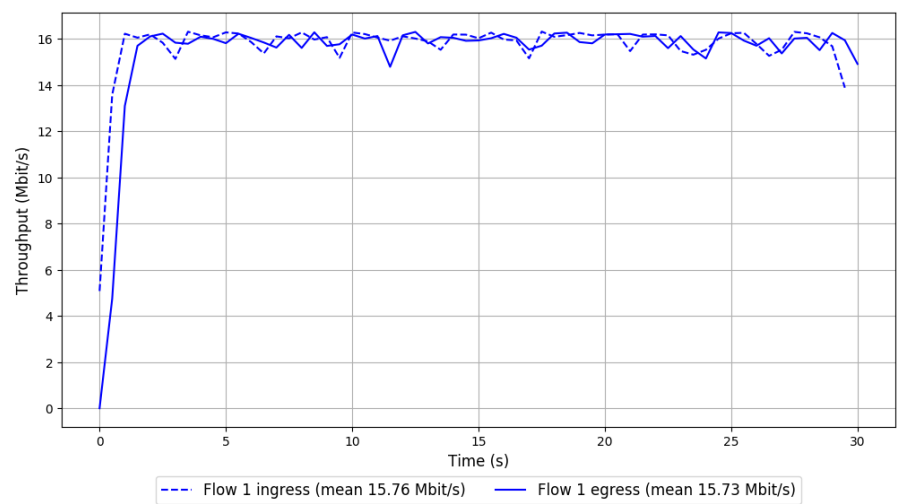


Run 3: Statistics of Sprout

Start at: 2019-12-11 03:41:19
End at: 2019-12-11 03:41:49
Local clock offset: 5.187 ms
Remote clock offset: -2.526 ms

Below is generated by plot.py at 2019-12-11 05:19:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.73 Mbit/s
95th percentile per-packet one-way delay: 33.760 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 15.73 Mbit/s
95th percentile per-packet one-way delay: 33.760 ms
Loss rate: 0.16%

Run 3: Report of Sprout — Data Link

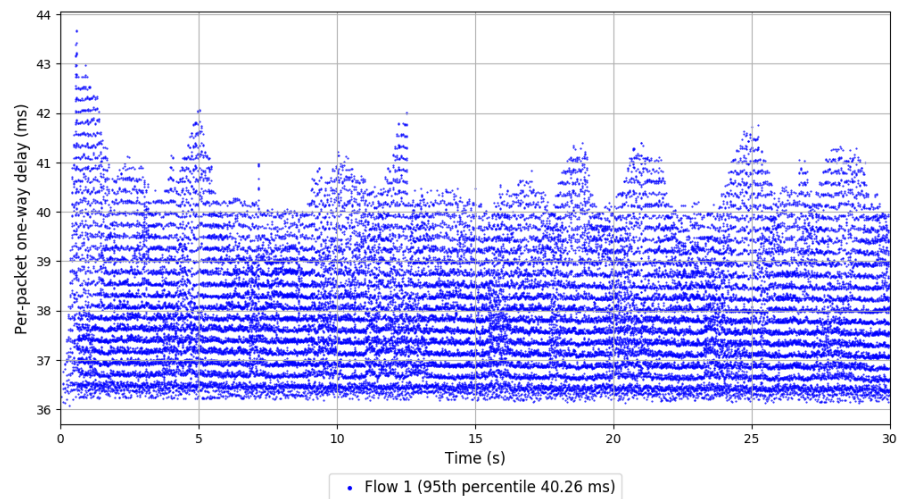
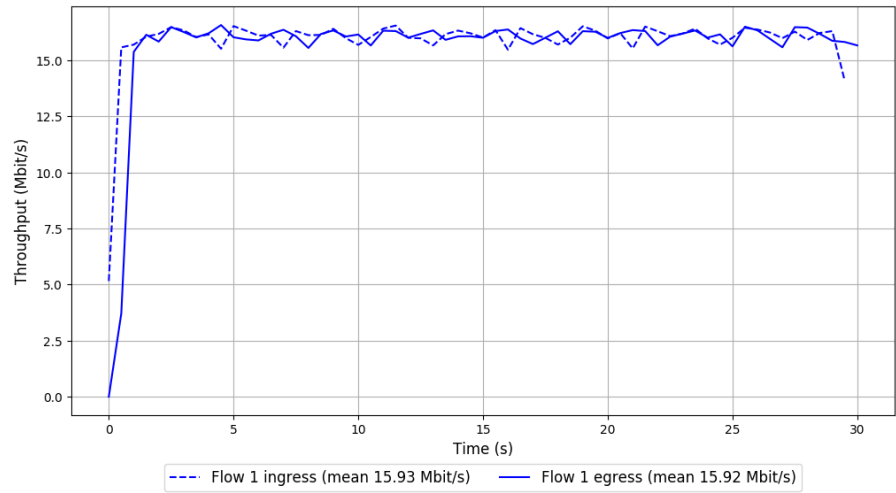


Run 4: Statistics of Sprout

Start at: 2019-12-11 04:10:44
End at: 2019-12-11 04:11:14
Local clock offset: 2.285 ms
Remote clock offset: -0.682 ms

Below is generated by plot.py at 2019-12-11 05:19:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.92 Mbit/s
95th percentile per-packet one-way delay: 40.262 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 15.92 Mbit/s
95th percentile per-packet one-way delay: 40.262 ms
Loss rate: 0.07%

Run 4: Report of Sprout — Data Link

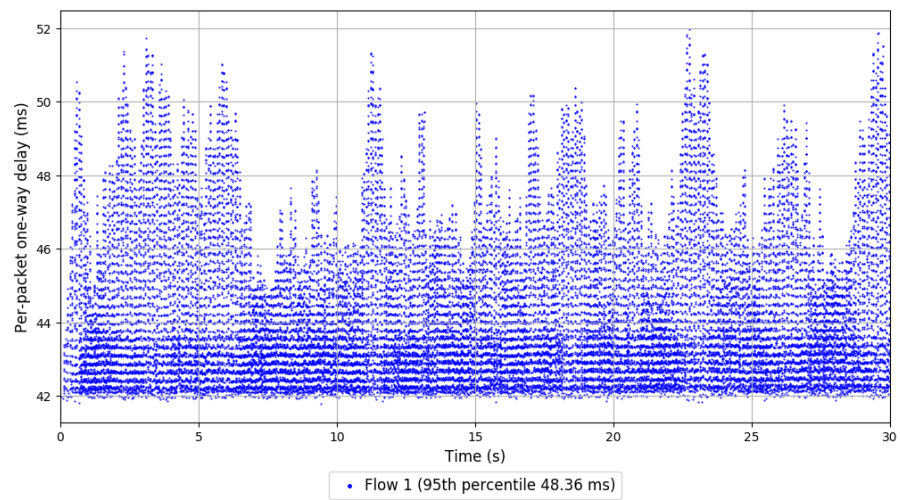
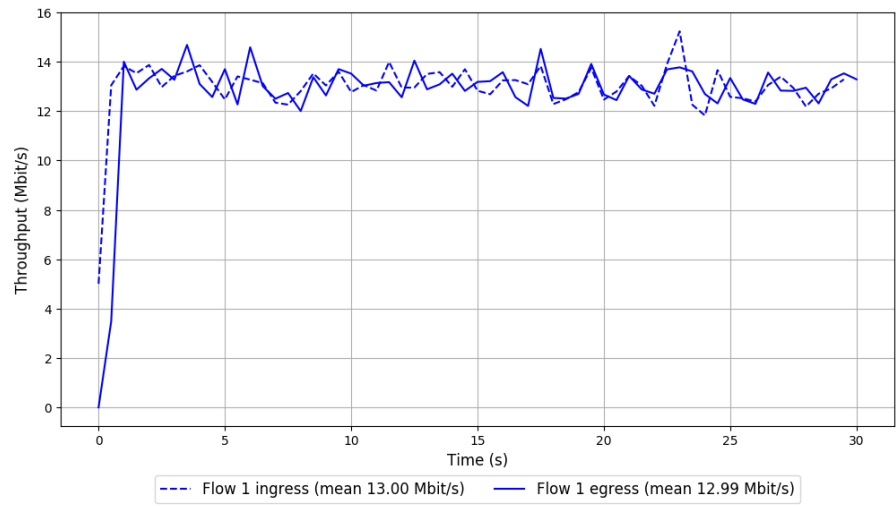


Run 5: Statistics of Sprout

Start at: 2019-12-11 04:39:42
End at: 2019-12-11 04:40:12
Local clock offset: 0.449 ms
Remote clock offset: -2.136 ms

Below is generated by plot.py at 2019-12-11 05:19:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.99 Mbit/s
95th percentile per-packet one-way delay: 48.357 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 12.99 Mbit/s
95th percentile per-packet one-way delay: 48.357 ms
Loss rate: 0.05%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

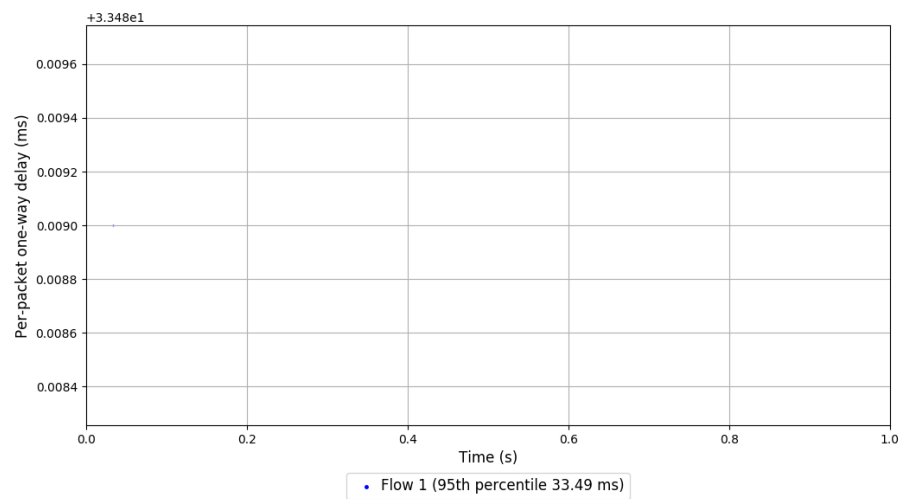
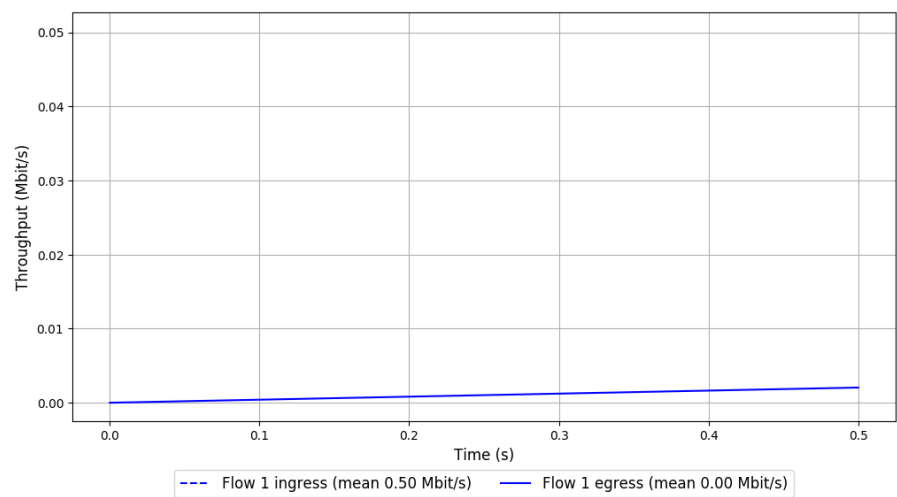
Start at: 2019-12-11 02:40:30

End at: 2019-12-11 02:41:00

Local clock offset: 1.113 ms

Remote clock offset: -1.95 ms

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



Run 2: Statistics of TaoVA-100x

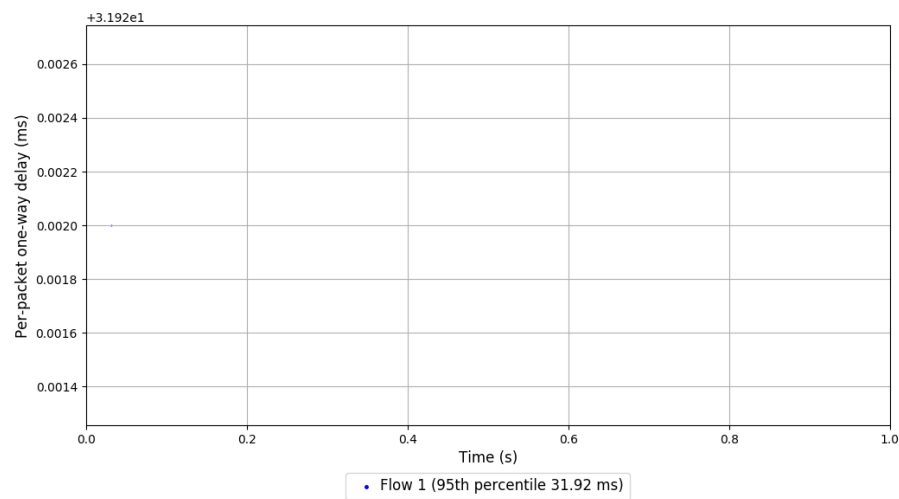
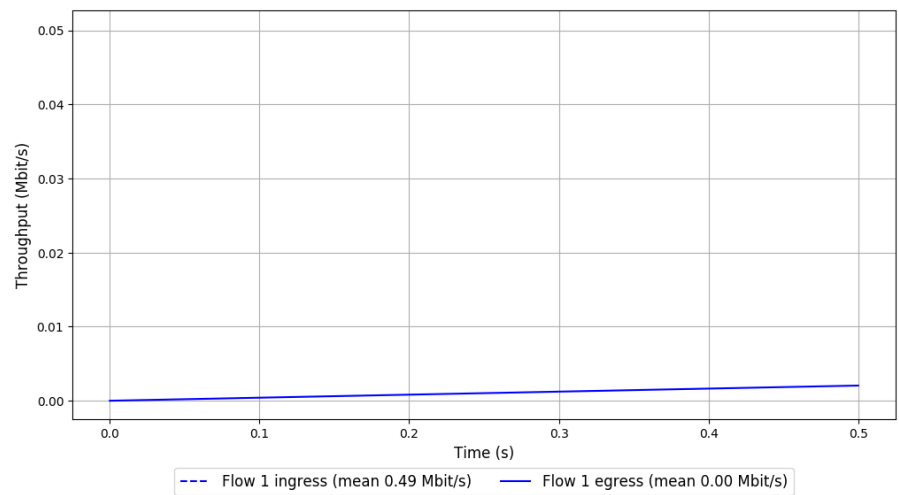
Start at: 2019-12-11 03:09:14

End at: 2019-12-11 03:09:44

Local clock offset: 4.047 ms

Remote clock offset: -1.223 ms

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



Run 3: Statistics of TaoVA-100x

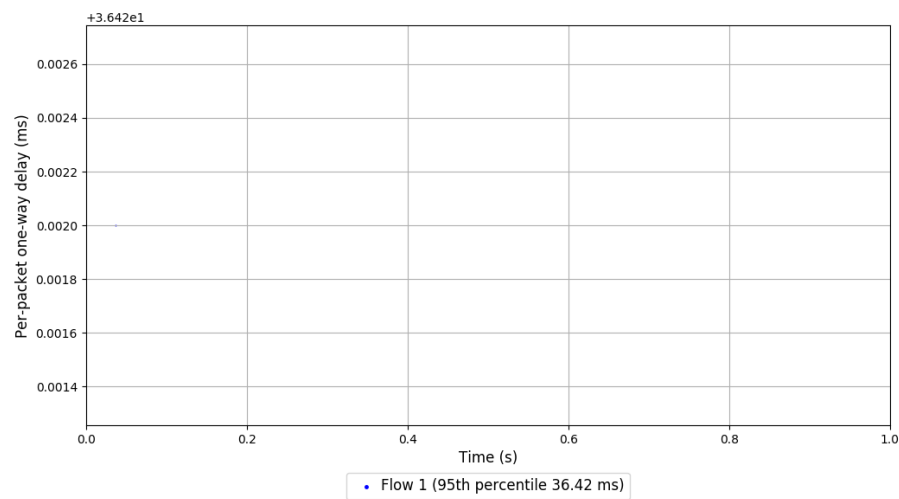
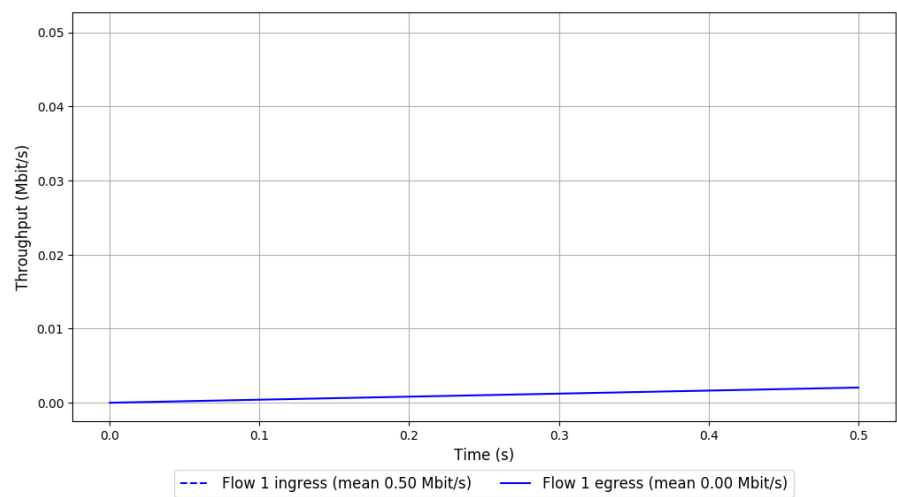
Start at: 2019-12-11 03:39:04

End at: 2019-12-11 03:39:34

Local clock offset: 0.821 ms

Remote clock offset: -0.291 ms

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



Run 4: Statistics of TaoVA-100x

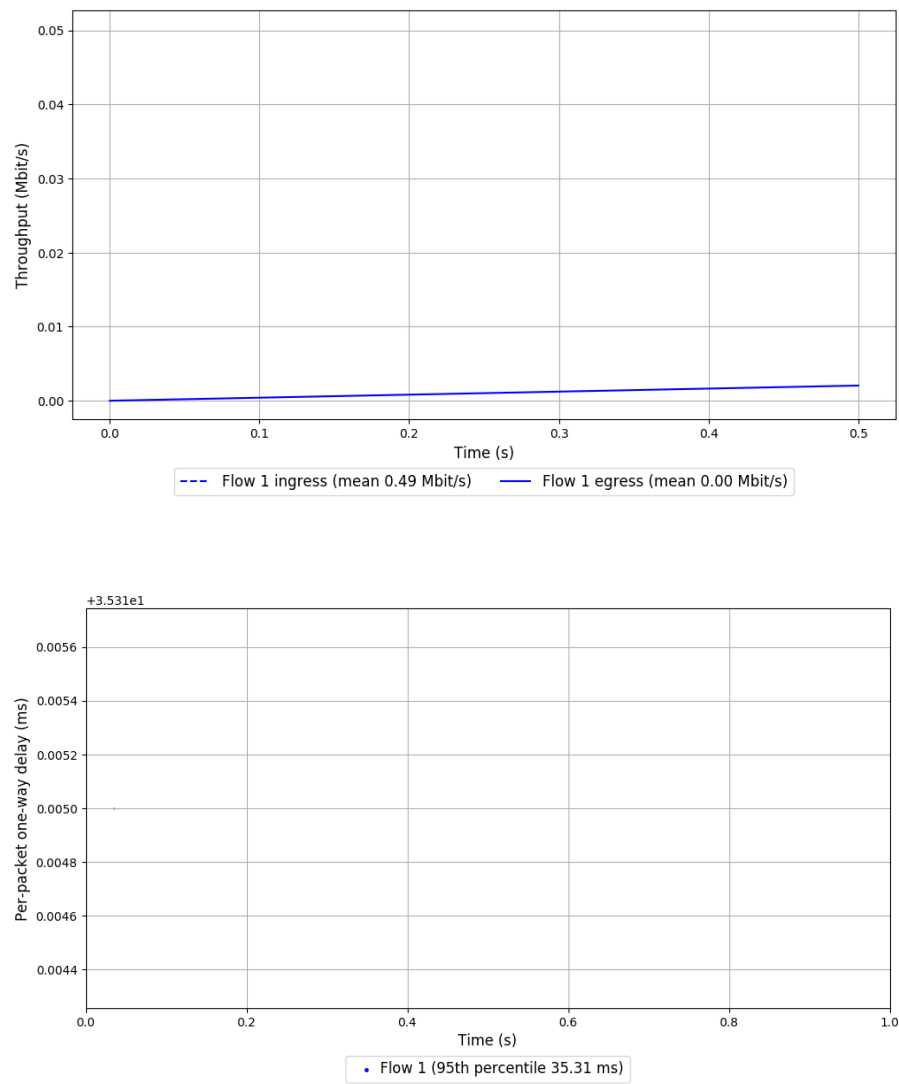
Start at: 2019-12-11 04:08:30

End at: 2019-12-11 04:09:00

Local clock offset: 5.908 ms

Remote clock offset: 1.301 ms

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



Run 5: Statistics of TaoVA-100x

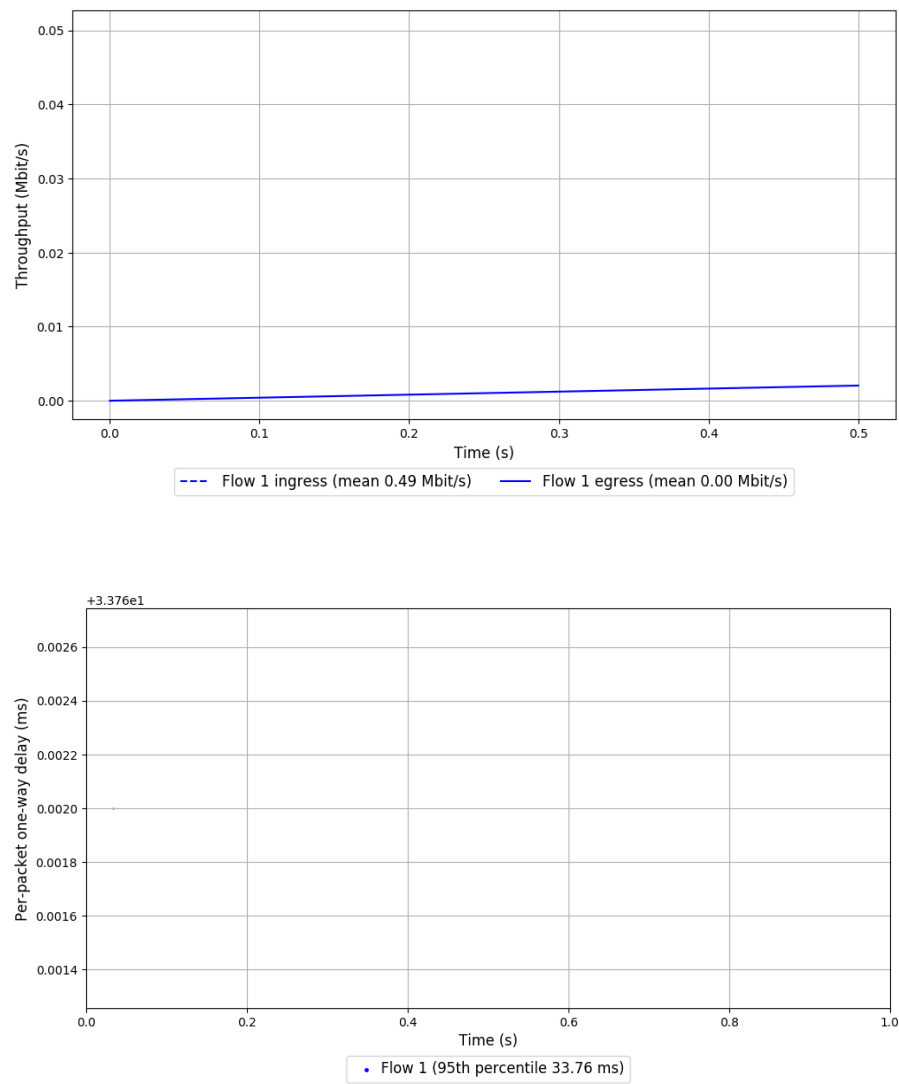
Start at: 2019-12-11 04:37:29

End at: 2019-12-11 04:37:59

Local clock offset: 4.336 ms

Remote clock offset: 0.141 ms

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



Run 1: Statistics of TCP Vegas

Start at: 2019-12-11 02:49:42

End at: 2019-12-11 02:50:12

Local clock offset: 1.376 ms

Remote clock offset: -1.509 ms

Below is generated by plot.py at 2019-12-11 05:19:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.22 Mbit/s

95th percentile per-packet one-way delay: 34.670 ms

Loss rate: 1.38%

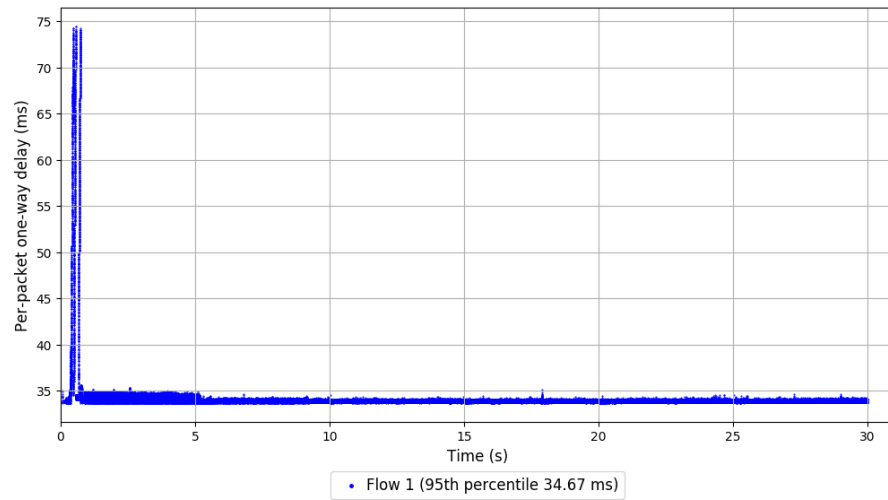
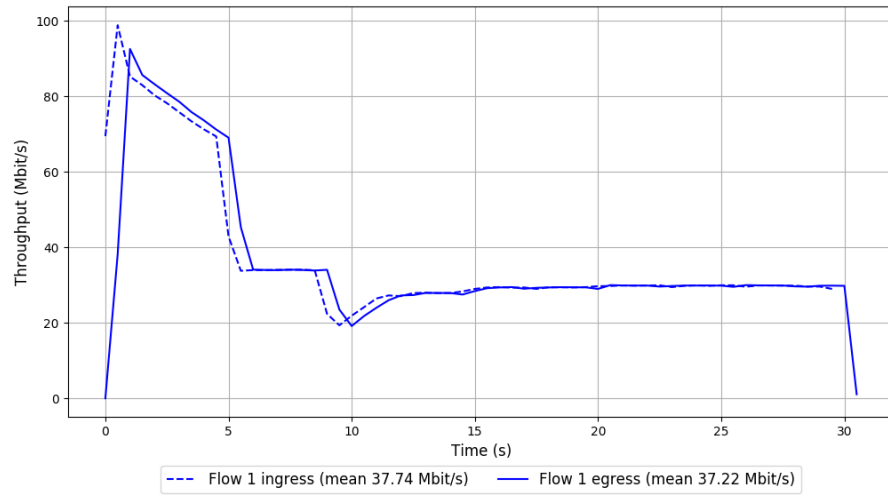
-- Flow 1:

Average throughput: 37.22 Mbit/s

95th percentile per-packet one-way delay: 34.670 ms

Loss rate: 1.38%

Run 1: Report of TCP Vegas — Data Link

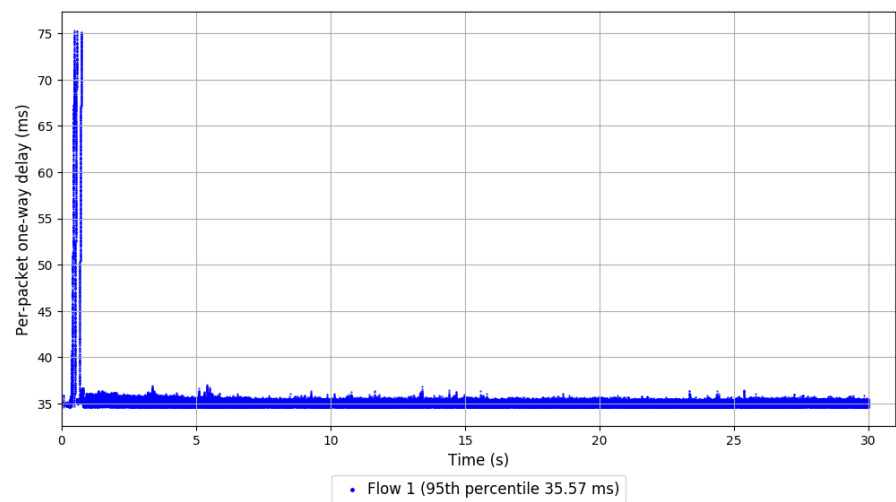
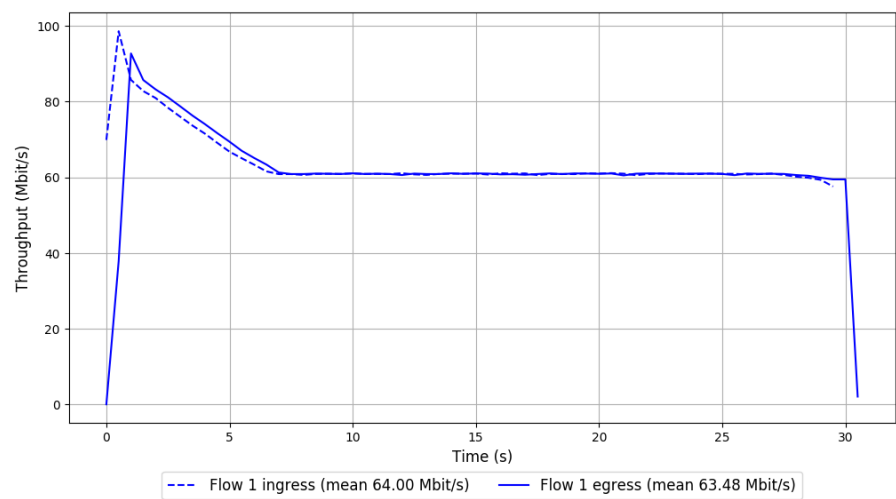


Run 2: Statistics of TCP Vegas

Start at: 2019-12-11 03:18:38
End at: 2019-12-11 03:19:08
Local clock offset: 0.828 ms
Remote clock offset: -1.109 ms

Below is generated by plot.py at 2019-12-11 05:19:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 63.48 Mbit/s
95th percentile per-packet one-way delay: 35.567 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 63.48 Mbit/s
95th percentile per-packet one-way delay: 35.567 ms
Loss rate: 0.81%

Run 2: Report of TCP Vegas — Data Link

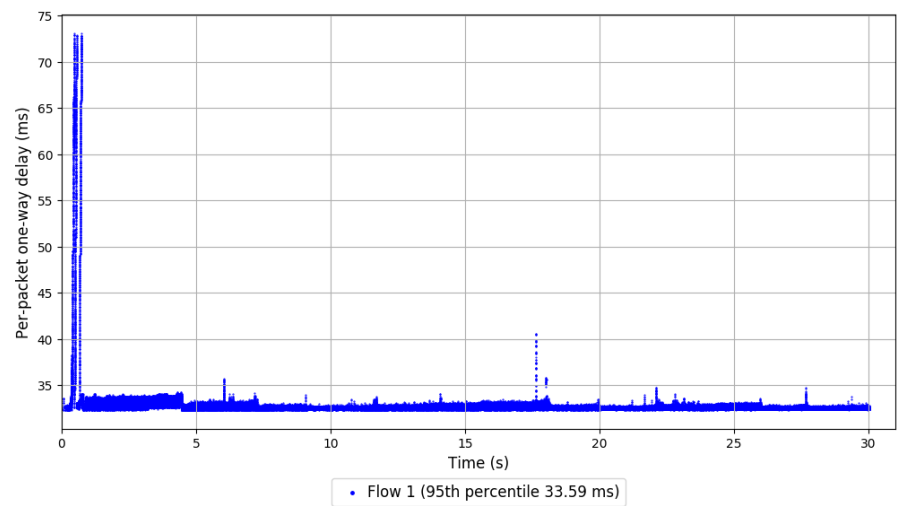
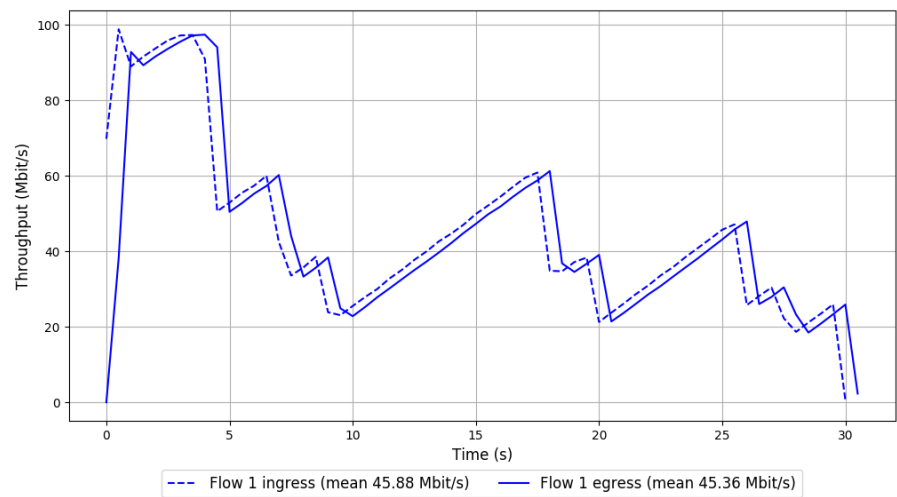


Run 3: Statistics of TCP Vegas

Start at: 2019-12-11 03:48:21
End at: 2019-12-11 03:48:51
Local clock offset: 5.571 ms
Remote clock offset: -0.146 ms

Below is generated by plot.py at 2019-12-11 05:19:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 45.36 Mbit/s
95th percentile per-packet one-way delay: 33.588 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 45.36 Mbit/s
95th percentile per-packet one-way delay: 33.588 ms
Loss rate: 1.15%

Run 3: Report of TCP Vegas — Data Link

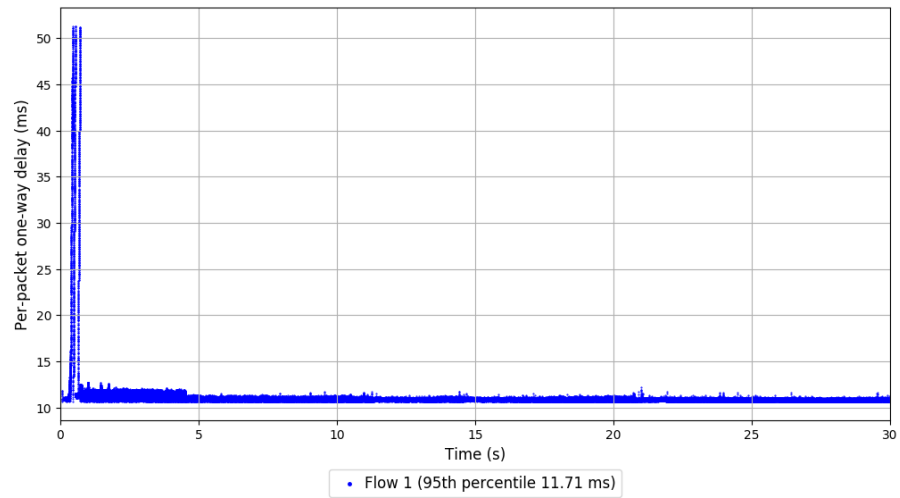
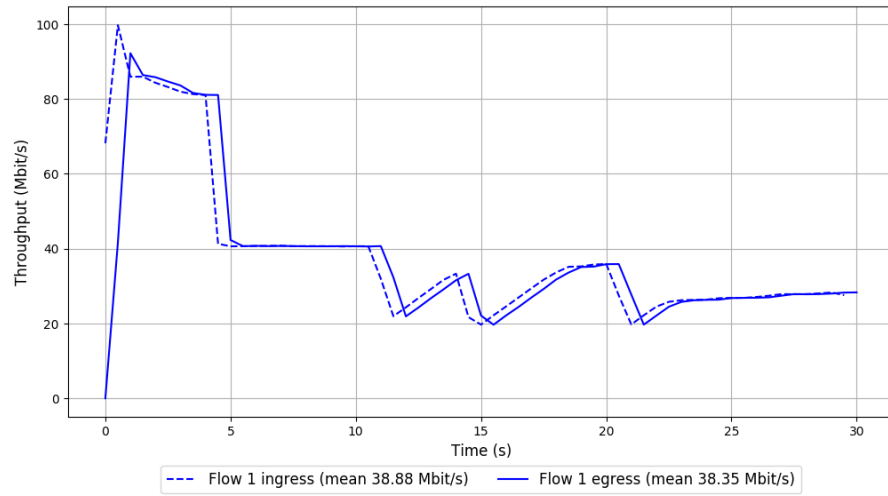


Run 4: Statistics of TCP Vegas

Start at: 2019-12-11 04:17:47
End at: 2019-12-11 04:18:17
Local clock offset: 5.639 ms
Remote clock offset: -21.109 ms

Below is generated by plot.py at 2019-12-11 05:19:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 38.35 Mbit/s
95th percentile per-packet one-way delay: 11.715 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 38.35 Mbit/s
95th percentile per-packet one-way delay: 11.715 ms
Loss rate: 1.37%

Run 4: Report of TCP Vegas — Data Link

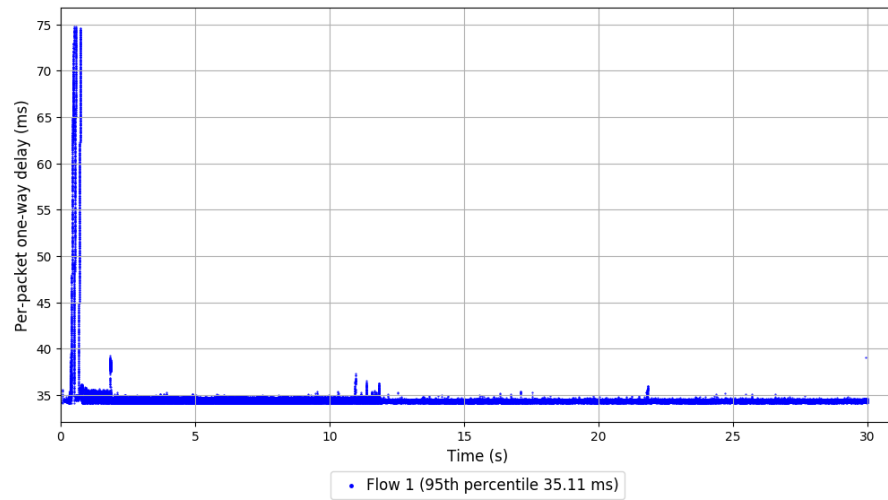
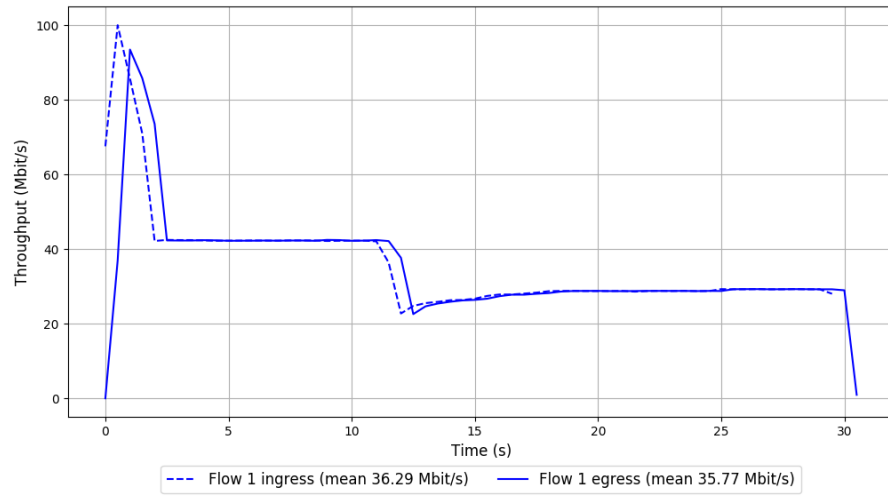


Run 5: Statistics of TCP Vegas

Start at: 2019-12-11 04:46:43
End at: 2019-12-11 04:47:13
Local clock offset: 0.572 ms
Remote clock offset: -3.157 ms

Below is generated by plot.py at 2019-12-11 05:19:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 35.77 Mbit/s
95th percentile per-packet one-way delay: 35.113 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 35.77 Mbit/s
95th percentile per-packet one-way delay: 35.113 ms
Loss rate: 1.45%

Run 5: Report of TCP Vegas — Data Link

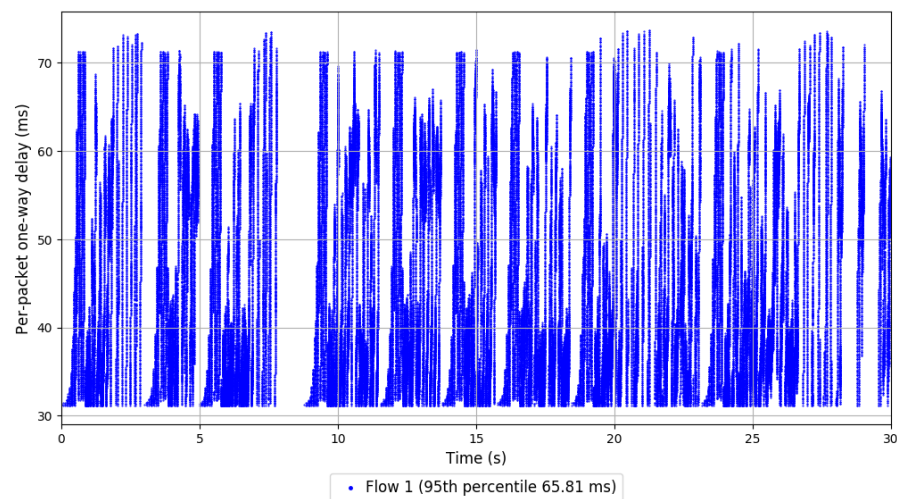
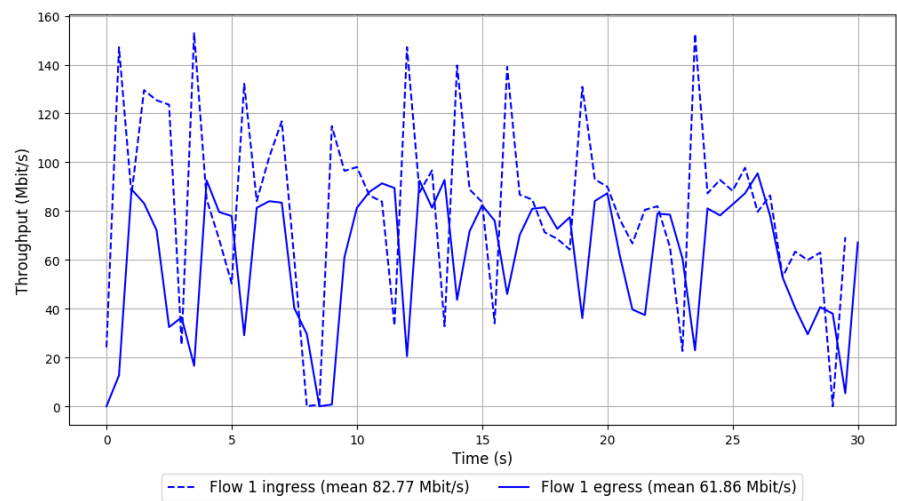


Run 1: Statistics of Verus

Start at: 2019-12-11 02:43:49
End at: 2019-12-11 02:44:19
Local clock offset: 4.794 ms
Remote clock offset: -2.479 ms

Below is generated by plot.py at 2019-12-11 05:19:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 61.86 Mbit/s
95th percentile per-packet one-way delay: 65.809 ms
Loss rate: 25.19%
-- Flow 1:
Average throughput: 61.86 Mbit/s
95th percentile per-packet one-way delay: 65.809 ms
Loss rate: 25.19%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-12-11 03:12:34

End at: 2019-12-11 03:13:04

Local clock offset: 4.976 ms

Remote clock offset: 0.079 ms

Below is generated by plot.py at 2019-12-11 05:19:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.53 Mbit/s

95th percentile per-packet one-way delay: 61.344 ms

Loss rate: 17.83%

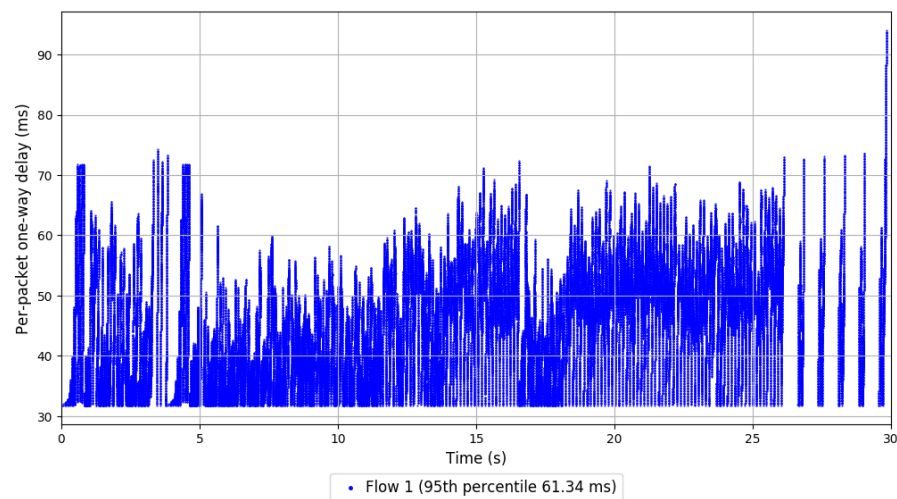
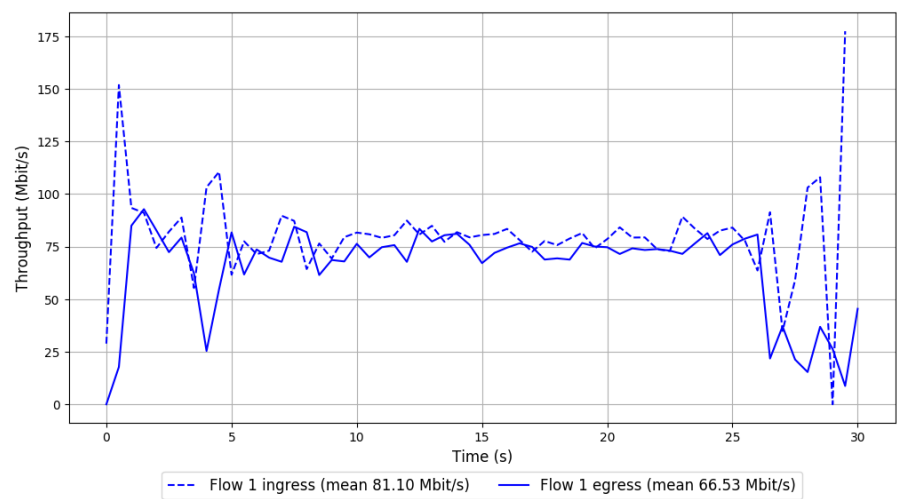
-- Flow 1:

Average throughput: 66.53 Mbit/s

95th percentile per-packet one-way delay: 61.344 ms

Loss rate: 17.83%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-12-11 03:42:27

End at: 2019-12-11 03:42:57

Local clock offset: 4.885 ms

Remote clock offset: 0.154 ms

Below is generated by plot.py at 2019-12-11 05:19:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.75 Mbit/s

95th percentile per-packet one-way delay: 67.779 ms

Loss rate: 29.33%

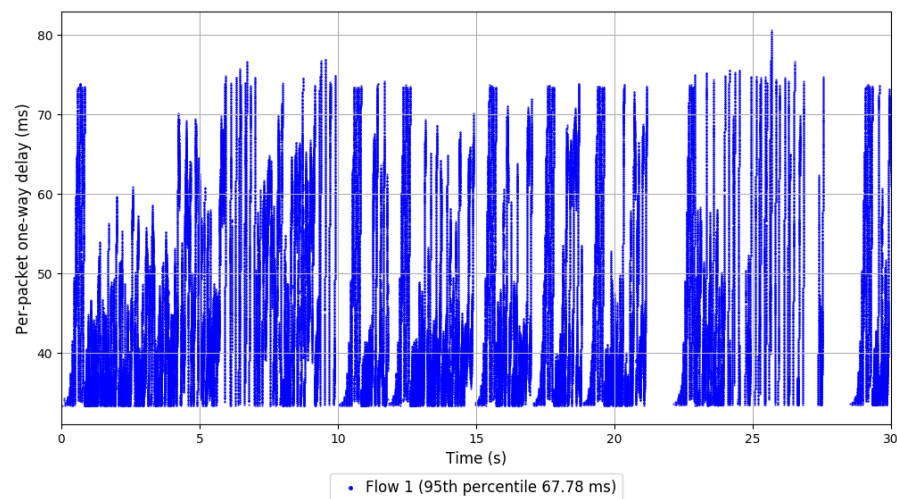
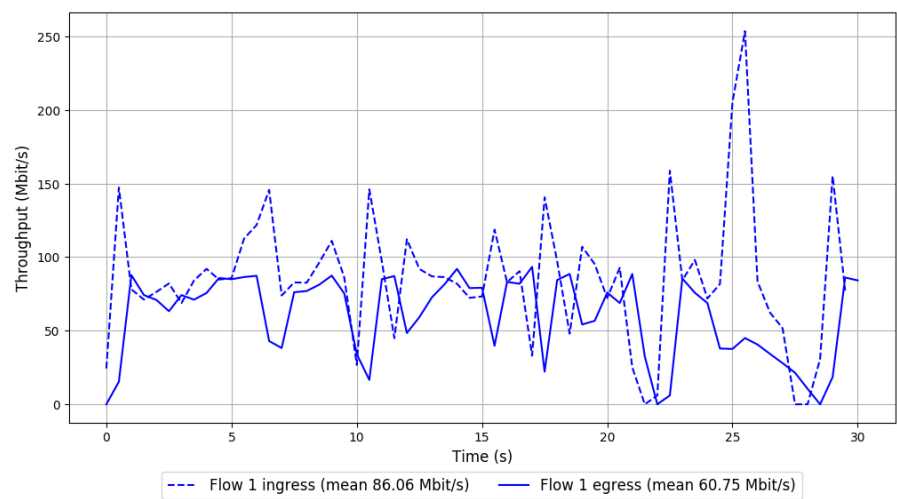
-- Flow 1:

Average throughput: 60.75 Mbit/s

95th percentile per-packet one-way delay: 67.779 ms

Loss rate: 29.33%

Run 3: Report of Verus — Data Link

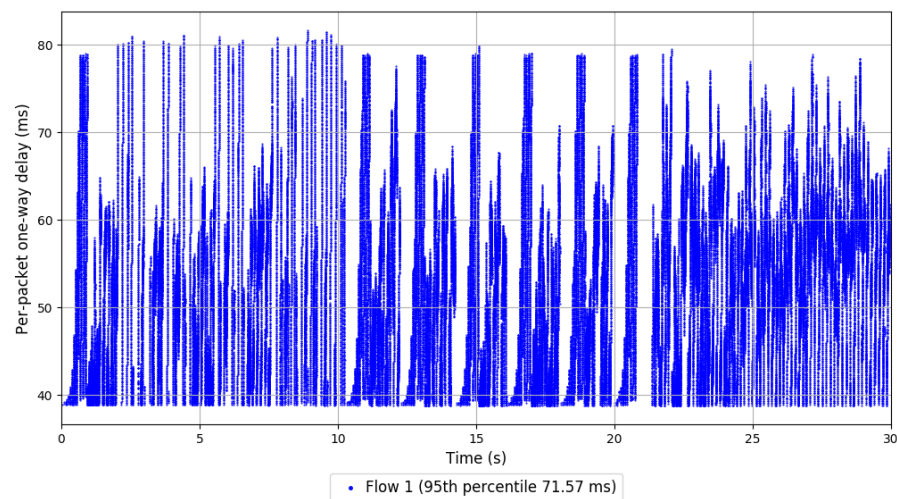
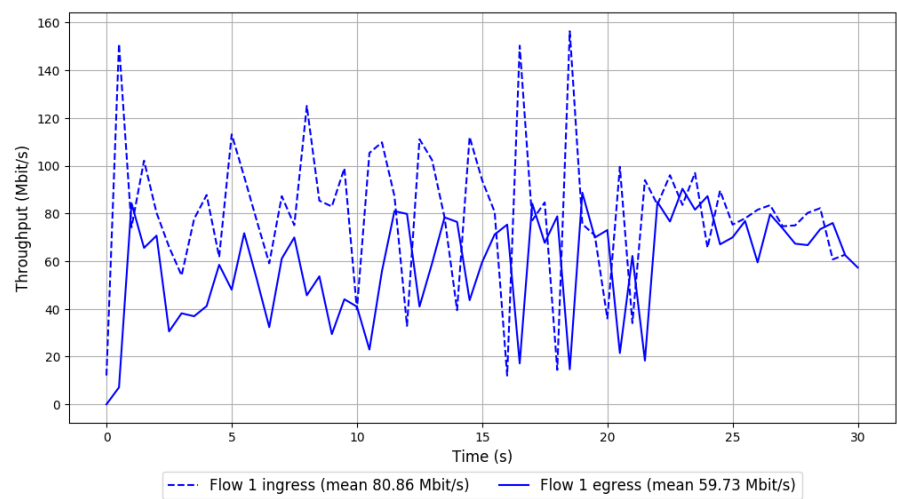


Run 4: Statistics of Verus

Start at: 2019-12-11 04:11:51
End at: 2019-12-11 04:12:21
Local clock offset: 3.487 ms
Remote clock offset: -3.229 ms

Below is generated by plot.py at 2019-12-11 05:20:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 59.73 Mbit/s
95th percentile per-packet one-way delay: 71.566 ms
Loss rate: 26.08%
-- Flow 1:
Average throughput: 59.73 Mbit/s
95th percentile per-packet one-way delay: 71.566 ms
Loss rate: 26.08%

Run 4: Report of Verus — Data Link

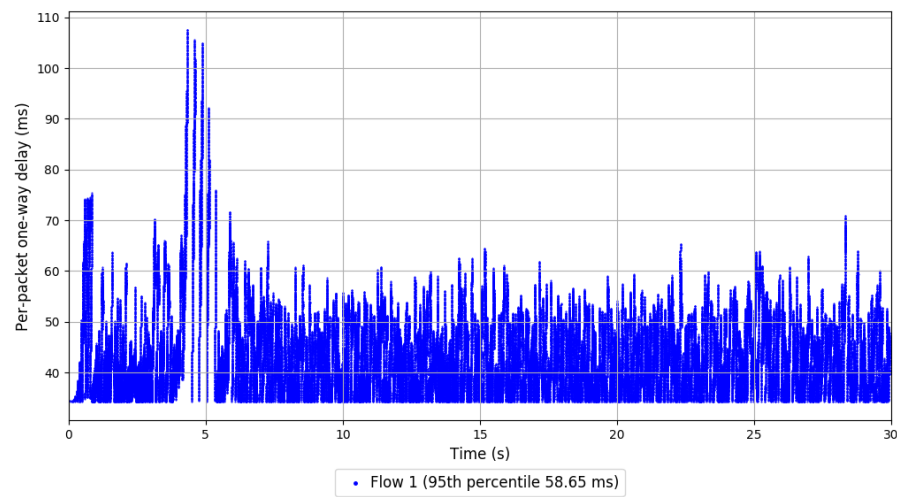
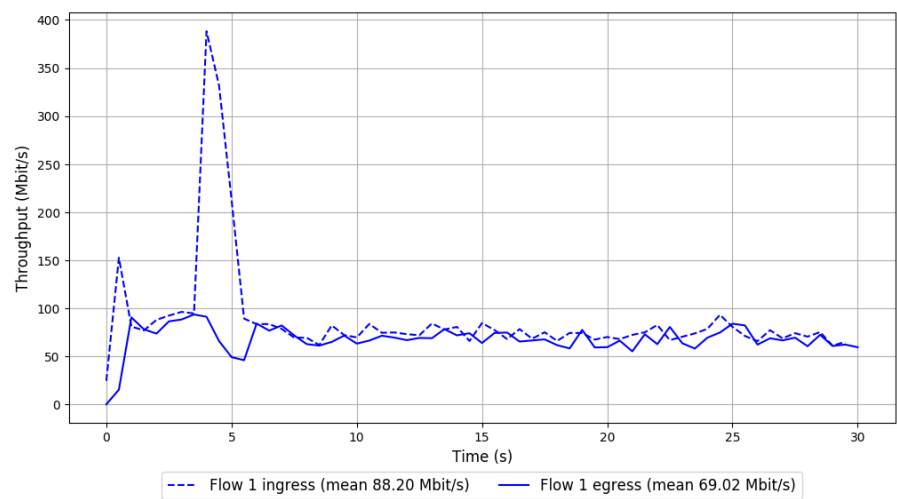


Run 5: Statistics of Verus

Start at: 2019-12-11 04:40:49
End at: 2019-12-11 04:41:19
Local clock offset: 0.477 ms
Remote clock offset: -2.732 ms

Below is generated by plot.py at 2019-12-11 05:20:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 69.02 Mbit/s
95th percentile per-packet one-way delay: 58.654 ms
Loss rate: 21.73%
-- Flow 1:
Average throughput: 69.02 Mbit/s
95th percentile per-packet one-way delay: 58.654 ms
Loss rate: 21.73%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-12-11 02:54:36

End at: 2019-12-11 02:55:06

Local clock offset: 4.336 ms

Remote clock offset: -2.037 ms

Below is generated by plot.py at 2019-12-11 05:20:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.44 Mbit/s

95th percentile per-packet one-way delay: 33.779 ms

Loss rate: 0.01%

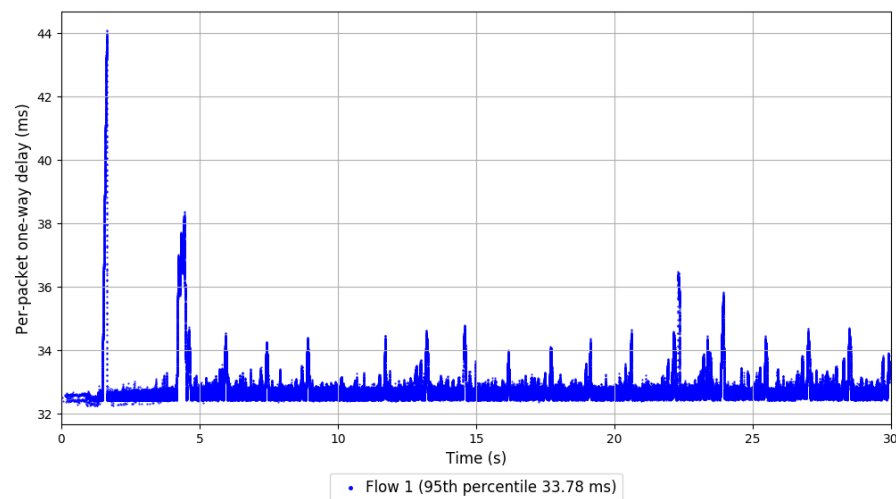
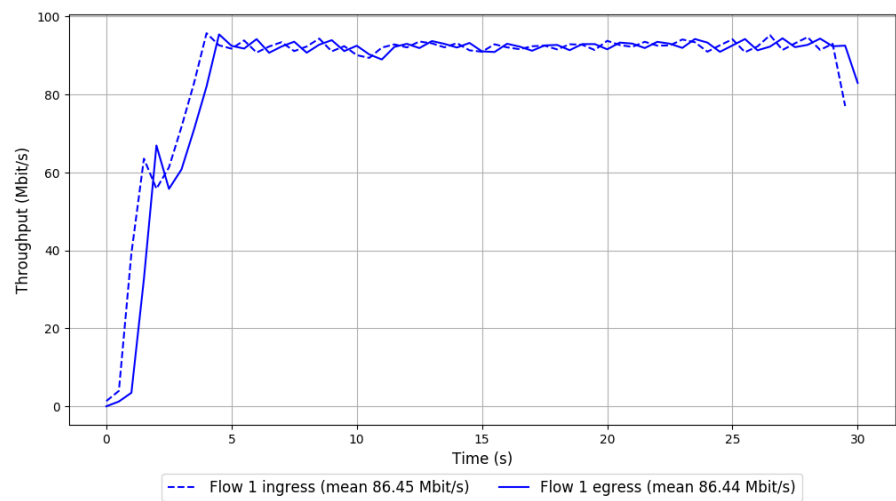
-- Flow 1:

Average throughput: 86.44 Mbit/s

95th percentile per-packet one-way delay: 33.779 ms

Loss rate: 0.01%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-12-11 03:23:43

End at: 2019-12-11 03:24:13

Local clock offset: -0.51 ms

Remote clock offset: -2.006 ms

Below is generated by plot.py at 2019-12-11 05:20:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.95 Mbit/s

95th percentile per-packet one-way delay: 37.669 ms

Loss rate: 0.02%

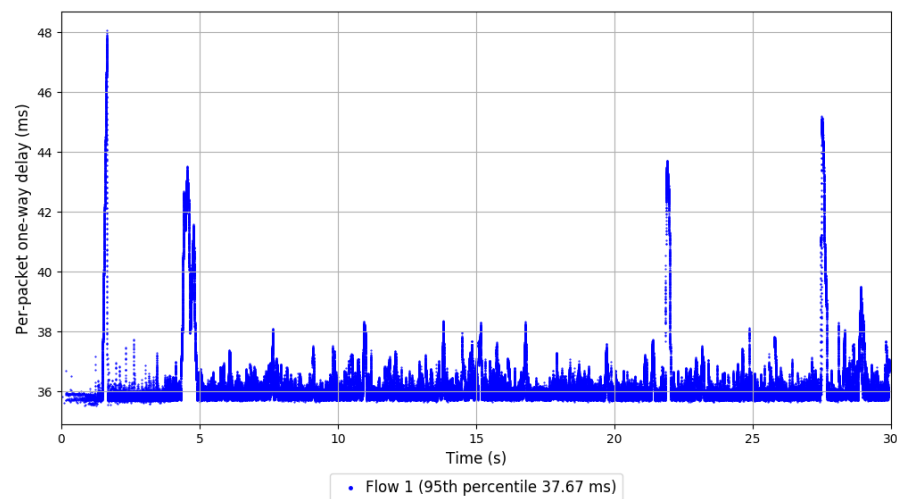
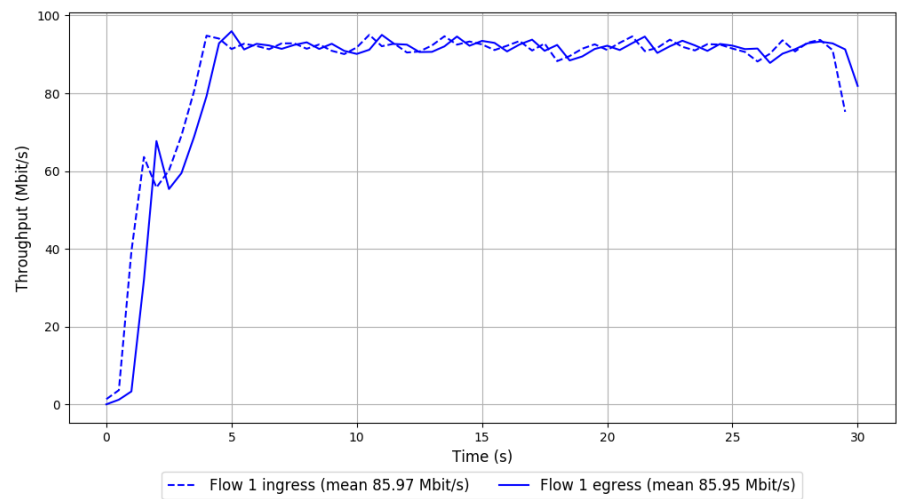
-- Flow 1:

Average throughput: 85.95 Mbit/s

95th percentile per-packet one-way delay: 37.669 ms

Loss rate: 0.02%

Run 2: Report of PCC-Vivace — Data Link

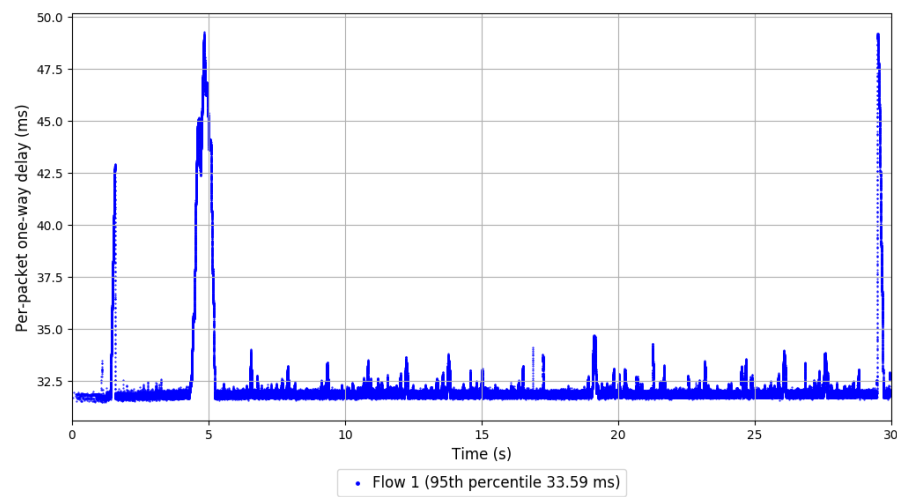
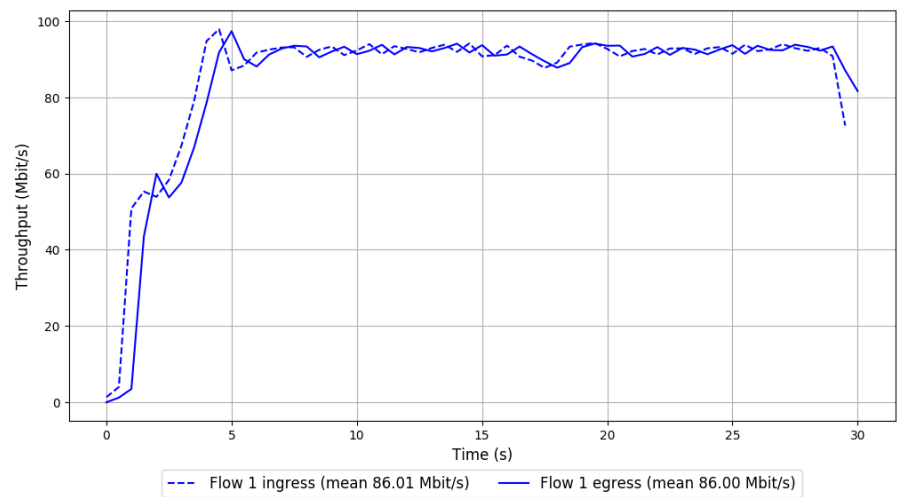


Run 3: Statistics of PCC-Vivace

Start at: 2019-12-11 03:53:15
End at: 2019-12-11 03:53:45
Local clock offset: 6.423 ms
Remote clock offset: -1.024 ms

Below is generated by plot.py at 2019-12-11 05:20:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.00 Mbit/s
95th percentile per-packet one-way delay: 33.588 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 86.00 Mbit/s
95th percentile per-packet one-way delay: 33.588 ms
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-12-11 04:22:50

End at: 2019-12-11 04:23:20

Local clock offset: 0.499 ms

Remote clock offset: -2.765 ms

Below is generated by plot.py at 2019-12-11 05:20:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.59 Mbit/s

95th percentile per-packet one-way delay: 44.425 ms

Loss rate: 0.03%

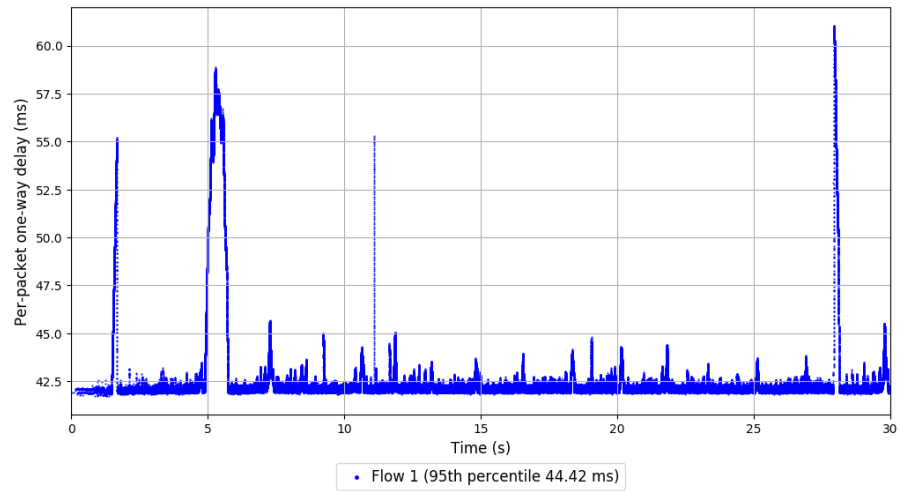
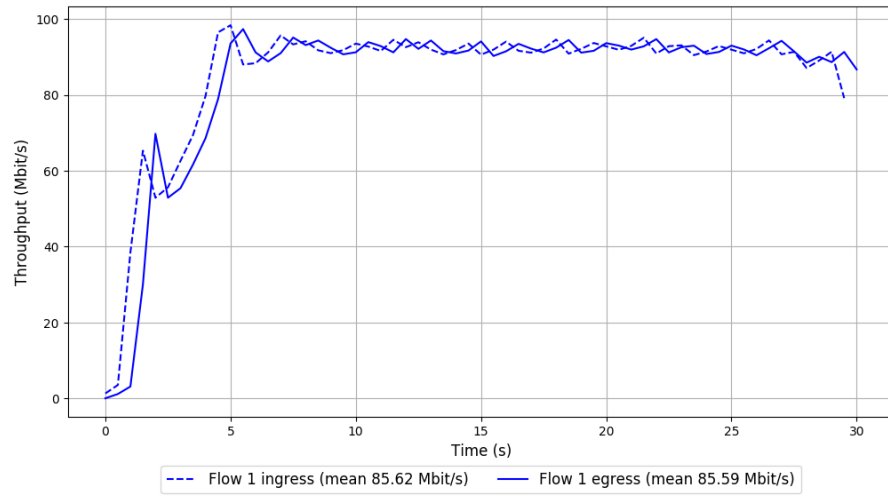
-- Flow 1:

Average throughput: 85.59 Mbit/s

95th percentile per-packet one-way delay: 44.425 ms

Loss rate: 0.03%

Run 4: Report of PCC-Vivace — Data Link

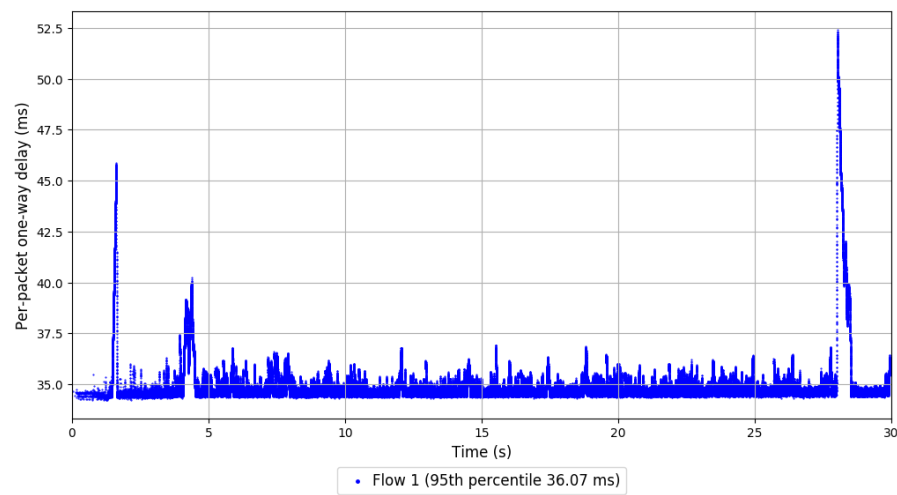
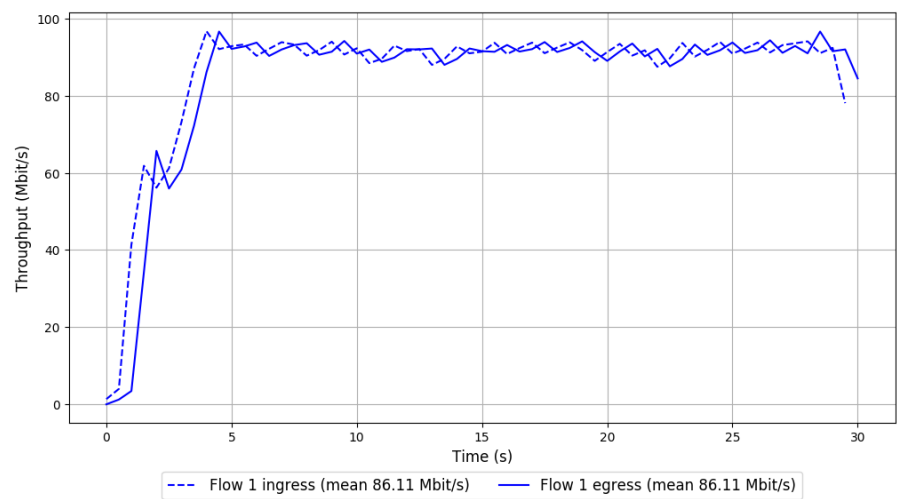


Run 5: Statistics of PCC-Vivace

Start at: 2019-12-11 04:51:36
End at: 2019-12-11 04:52:06
Local clock offset: 0.938 ms
Remote clock offset: -2.929 ms

Below is generated by plot.py at 2019-12-11 05:20:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.11 Mbit/s
95th percentile per-packet one-way delay: 36.074 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 86.11 Mbit/s
95th percentile per-packet one-way delay: 36.074 ms
Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

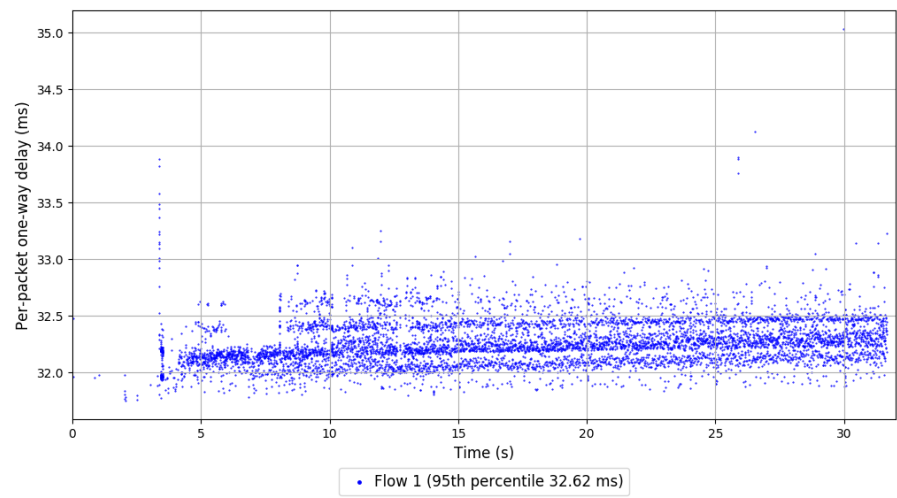
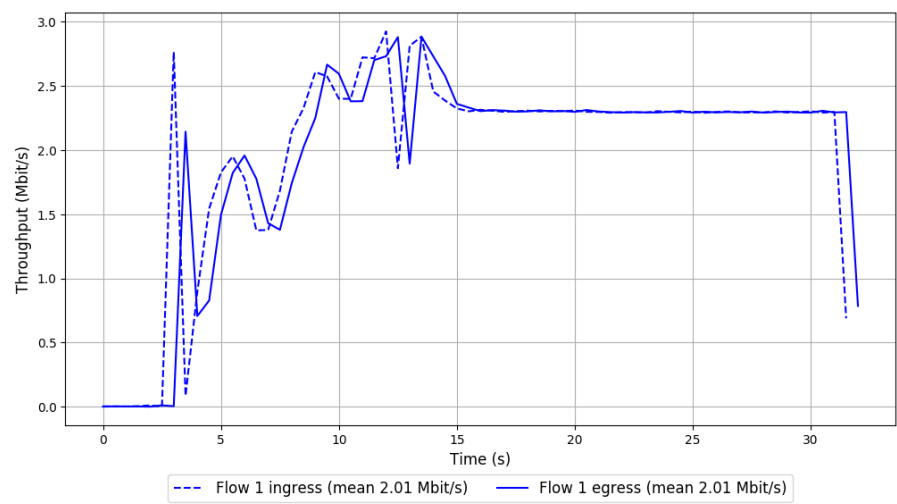


Run 1: Statistics of WebRTC media

Start at: 2019-12-11 02:48:37
End at: 2019-12-11 02:49:07
Local clock offset: 5.92 ms
Remote clock offset: -1.205 ms

Below is generated by plot.py at 2019-12-11 05:20:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 32.623 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 32.623 ms
Loss rate: 0.04%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-12-11 03:17:33

End at: 2019-12-11 03:18:03

Local clock offset: 0.107 ms

Remote clock offset: 0.438 ms

Below is generated by plot.py at 2019-12-11 05:20:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 38.395 ms

Loss rate: 0.00%

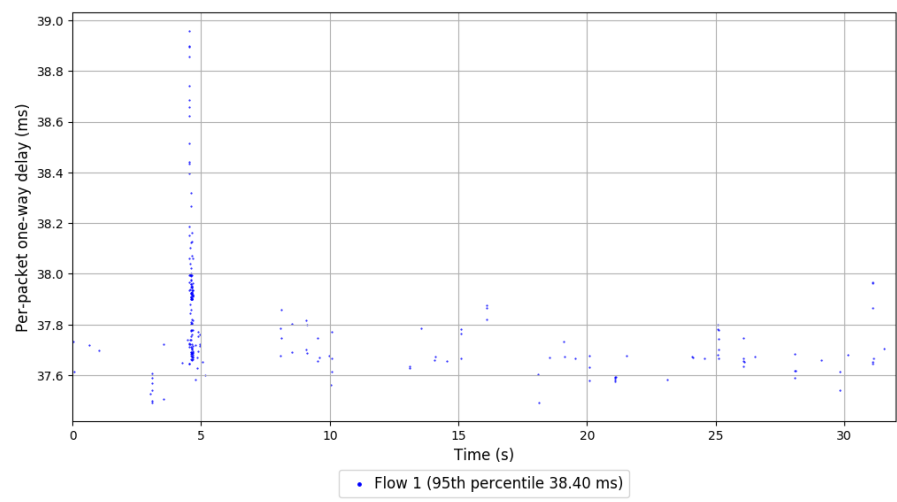
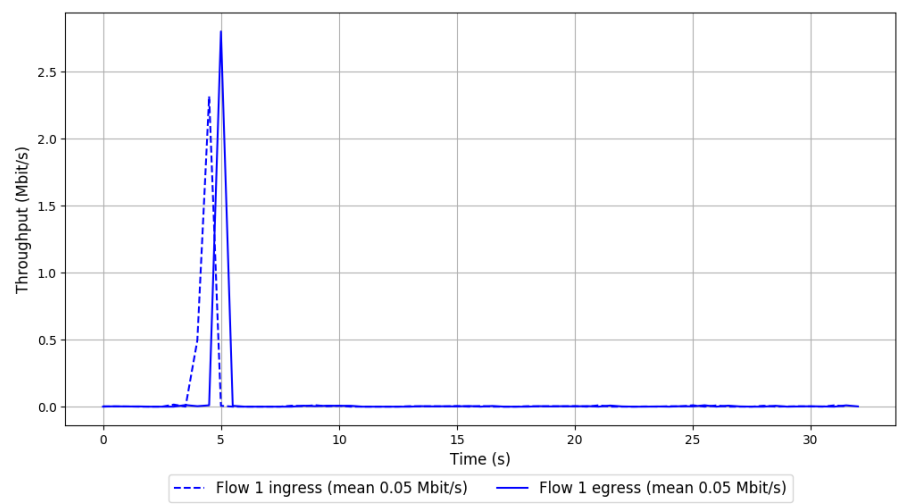
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 38.395 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

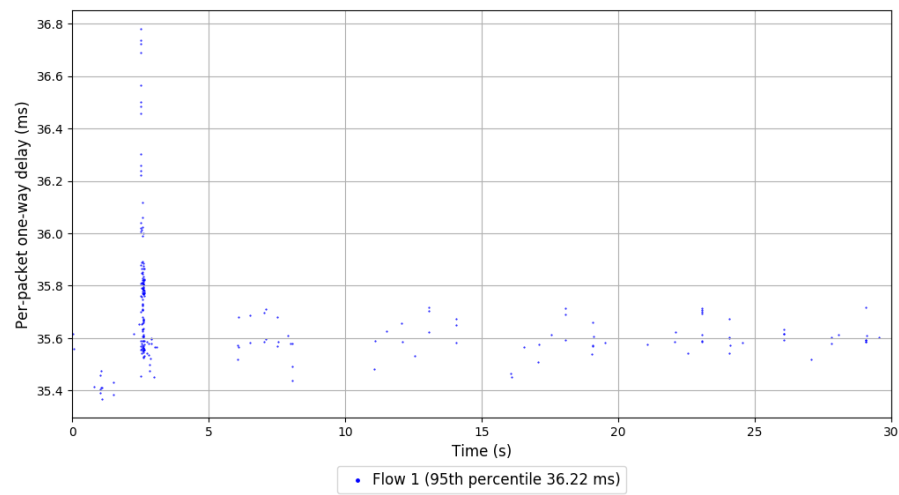
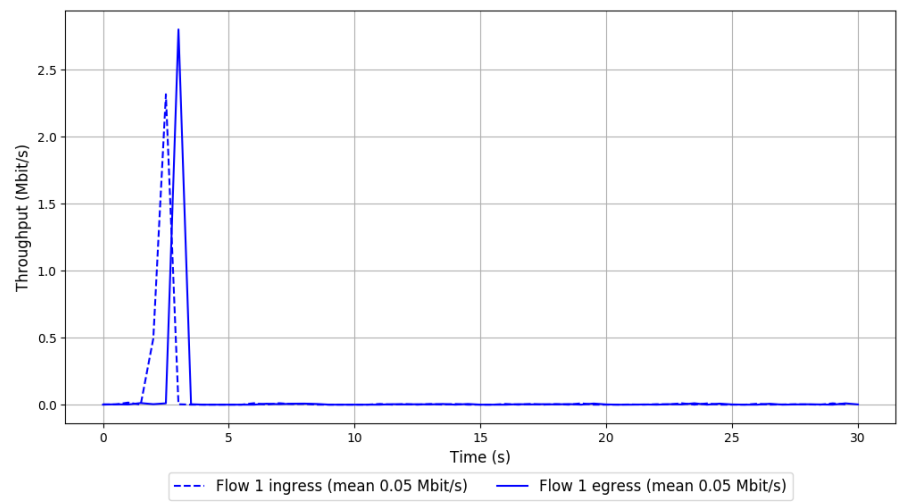


Run 3: Statistics of WebRTC media

Start at: 2019-12-11 03:47:16
End at: 2019-12-11 03:47:46
Local clock offset: 1.591 ms
Remote clock offset: -0.759 ms

Below is generated by plot.py at 2019-12-11 05:20:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 36.222 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 36.222 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

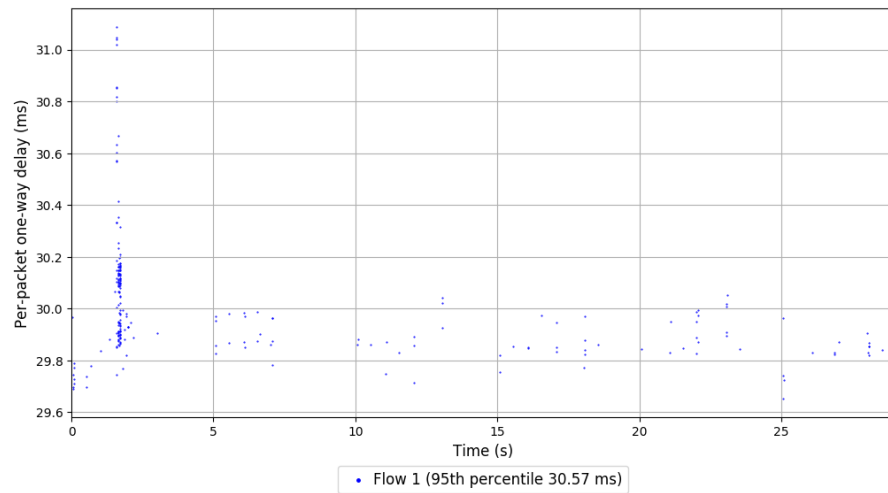
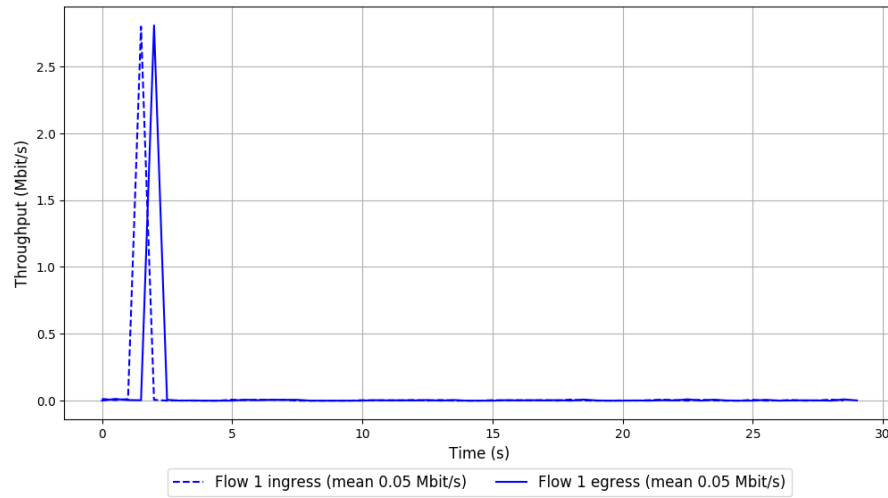


Run 4: Statistics of WebRTC media

Start at: 2019-12-11 04:16:42
End at: 2019-12-11 04:17:12
Local clock offset: 5.529 ms
Remote clock offset: -2.898 ms

Below is generated by plot.py at 2019-12-11 05:20:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 30.573 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 30.573 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-12-11 04:45:37
End at: 2019-12-11 04:46:07
Local clock offset: 4.033 ms
Remote clock offset: -4.144 ms

Below is generated by plot.py at 2019-12-11 05:20:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 37.646 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 37.646 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

