

Pantheon Report

Generated at 2019-12-11 05:08:51 (UTC).

Data path: AWS Brazil 2 on *ens5 (local)* → Colombia on *p4p1 (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 *gps.ntp.br* and have been applied to correct the timestamps in logs.

System info:

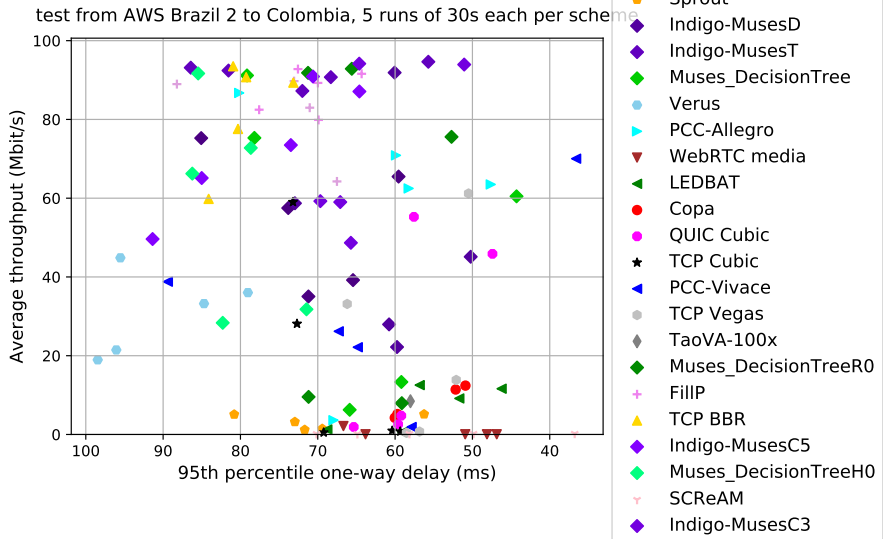
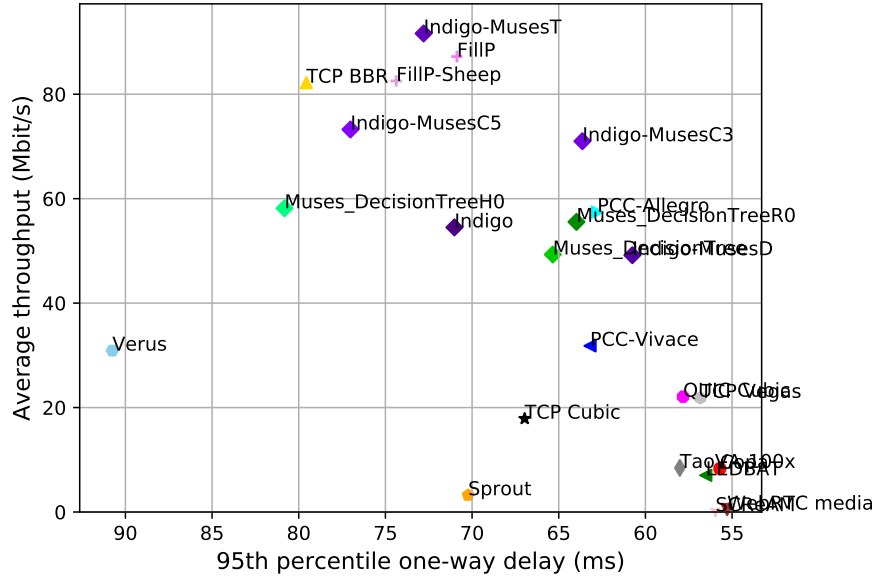
```
Linux 4.15.0-1054-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfc58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
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 Brazil 2 to Colombia, 5 runs of 30s each per scheme
(mean of all runs by scheme)



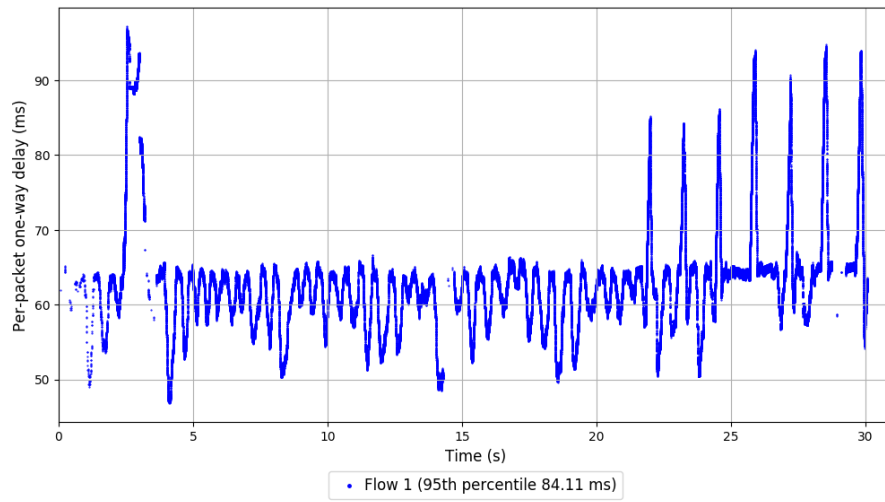
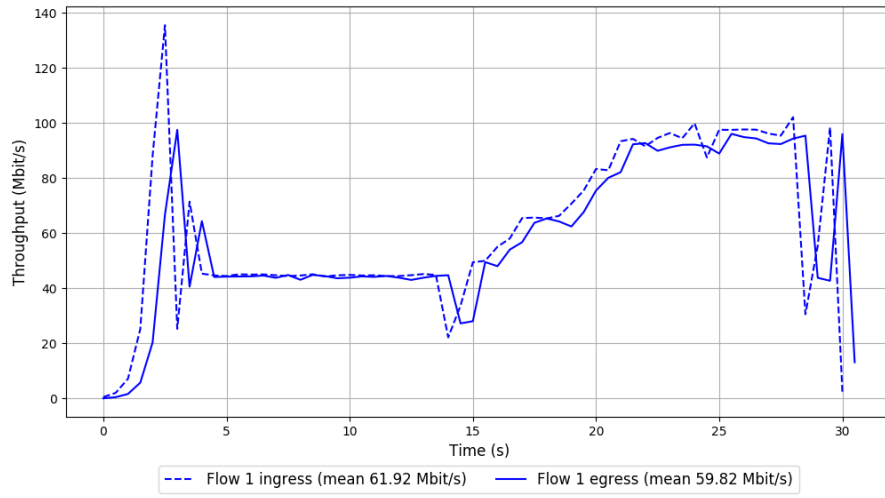
scheme	# runs	mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate (%)
		flow 1	flow 1	flow 1
TCP BBR	5	82.20	79.56	3.23
Copa	4	8.31	55.70	17.82
TCP Cubic	5	17.87	66.97	1.98
FillP	5	87.20	70.87	1.69
FillP-Sheep	5	82.54	74.38	2.29
Indigo	5	54.50	71.02	2.15
Indigo-MusesC3	5	71.00	63.64	1.58
Indigo-MusesC5	5	73.25	77.02	3.54
Indigo-MusesD	5	49.17	60.75	2.35
Indigo-MusesT	5	91.63	72.80	2.32
LEDBAT	5	7.03	56.52	1.43
Muses_DecisionTree	5	49.31	65.34	1.95
Muses_DecisionTreeH0	5	58.16	80.82	10.30
Muses_DecisionTreeR0	5	55.55	63.98	1.62
PCC-Allegro	5	57.44	62.78	2.90
PCC-Expr	0	N/A	N/A	N/A
QUIC Cubic	5	22.08	57.83	0.96
SCReAM	5	0.16	55.96	0.50
Sprout	5	3.22	70.23	2.84
TaoVA-100x	1	8.44	58.02	31.19
TCP Vegas	5	21.87	56.83	1.54
Verus	5	30.91	90.76	63.78
PCC-Vivace	5	31.81	63.19	1.34
WebRTC media	5	0.47	55.28	0.66

Run 1: Statistics of TCP BBR

Start at: 2019-12-11 03:07:11
End at: 2019-12-11 03:07:41
Local clock offset: -7.672 ms
Remote clock offset: -5.738 ms

Below is generated by plot.py at 2019-12-11 05:01:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 59.82 Mbit/s
95th percentile per-packet one-way delay: 84.115 ms
Loss rate: 3.38%
-- Flow 1:
Average throughput: 59.82 Mbit/s
95th percentile per-packet one-way delay: 84.115 ms
Loss rate: 3.38%

Run 1: Report of TCP BBR — Data Link

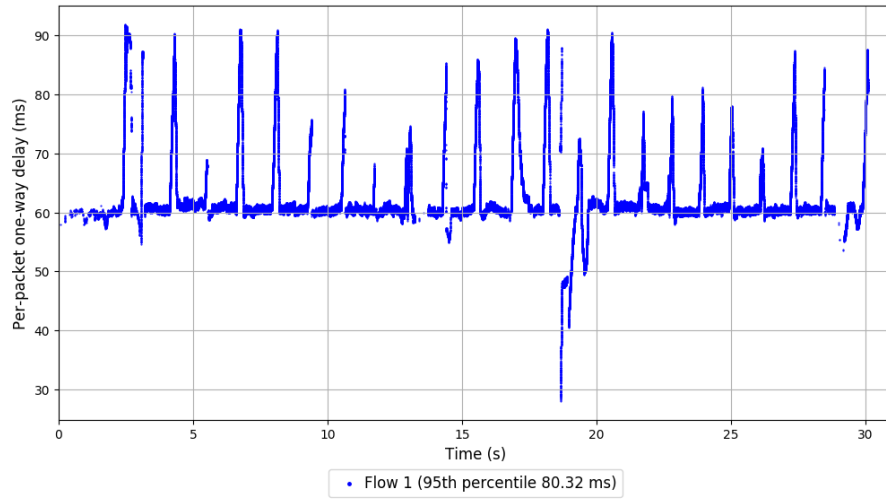
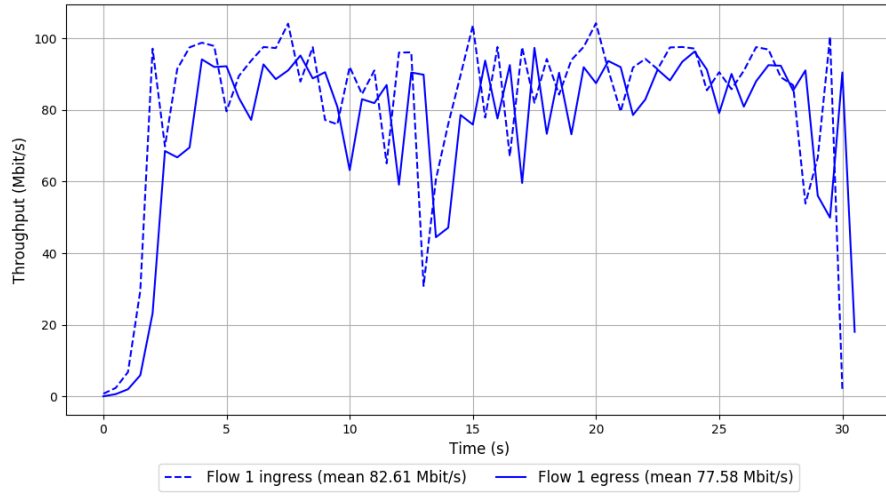


Run 2: Statistics of TCP BBR

Start at: 2019-12-11 03:35:18
End at: 2019-12-11 03:35:48
Local clock offset: -9.744 ms
Remote clock offset: -7.268 ms

Below is generated by plot.py at 2019-12-11 05:01:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.58 Mbit/s
95th percentile per-packet one-way delay: 80.319 ms
Loss rate: 6.01%
-- Flow 1:
Average throughput: 77.58 Mbit/s
95th percentile per-packet one-way delay: 80.319 ms
Loss rate: 6.01%

Run 2: Report of TCP BBR — Data Link

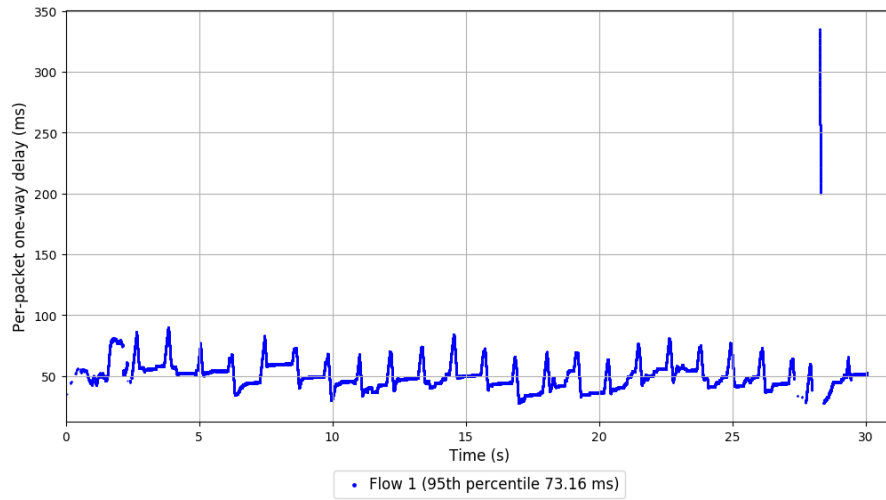
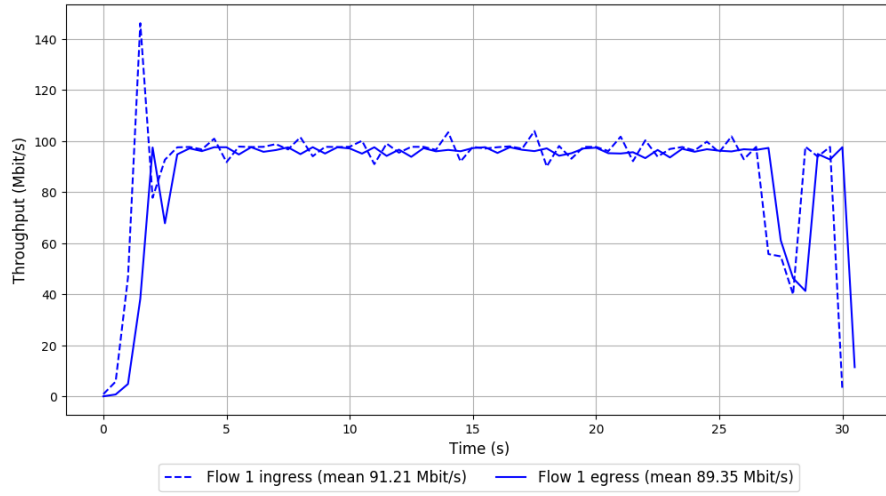


Run 3: Statistics of TCP BBR

Start at: 2019-12-11 04:03:12
End at: 2019-12-11 04:03:42
Local clock offset: -8.586 ms
Remote clock offset: -8.127 ms

Below is generated by plot.py at 2019-12-11 05:01:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.35 Mbit/s
95th percentile per-packet one-way delay: 73.162 ms
Loss rate: 2.00%
-- Flow 1:
Average throughput: 89.35 Mbit/s
95th percentile per-packet one-way delay: 73.162 ms
Loss rate: 2.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-12-11 04:31:09

End at: 2019-12-11 04:31:39

Local clock offset: -7.933 ms

Remote clock offset: 1.627 ms

Below is generated by plot.py at 2019-12-11 05:01:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.50 Mbit/s

95th percentile per-packet one-way delay: 80.944 ms

Loss rate: 2.33%

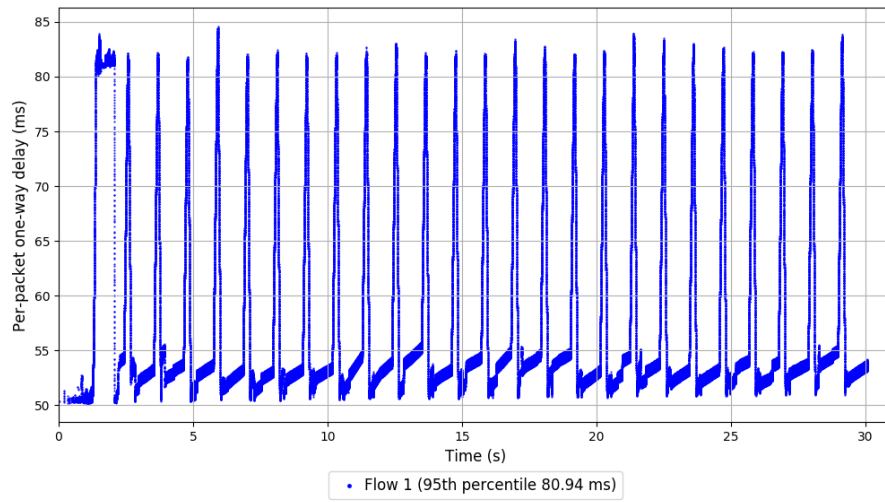
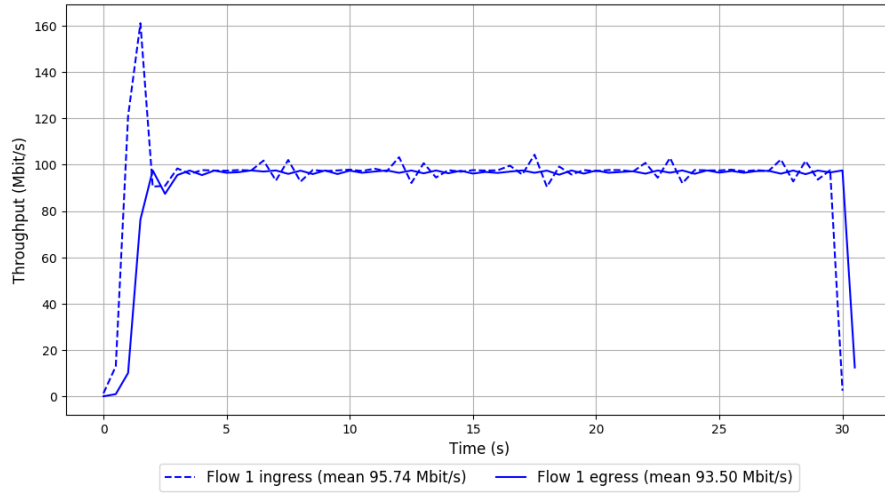
-- Flow 1:

Average throughput: 93.50 Mbit/s

95th percentile per-packet one-way delay: 80.944 ms

Loss rate: 2.33%

Run 4: Report of TCP BBR — Data Link

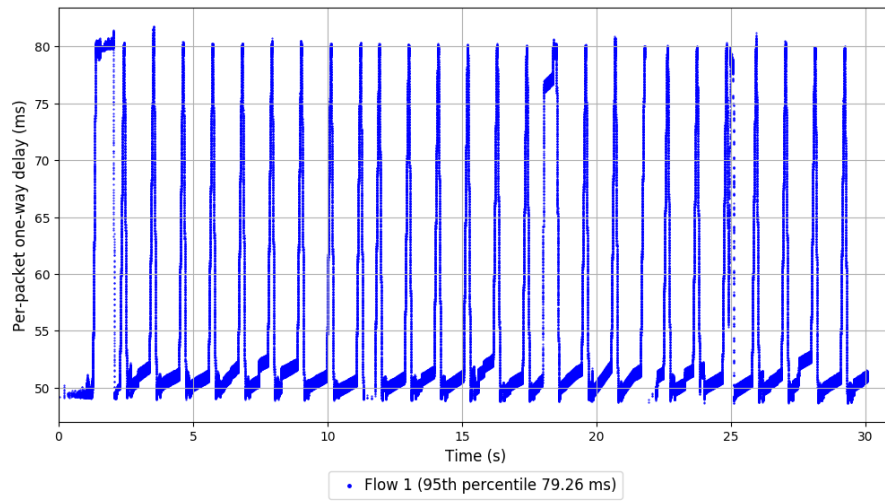
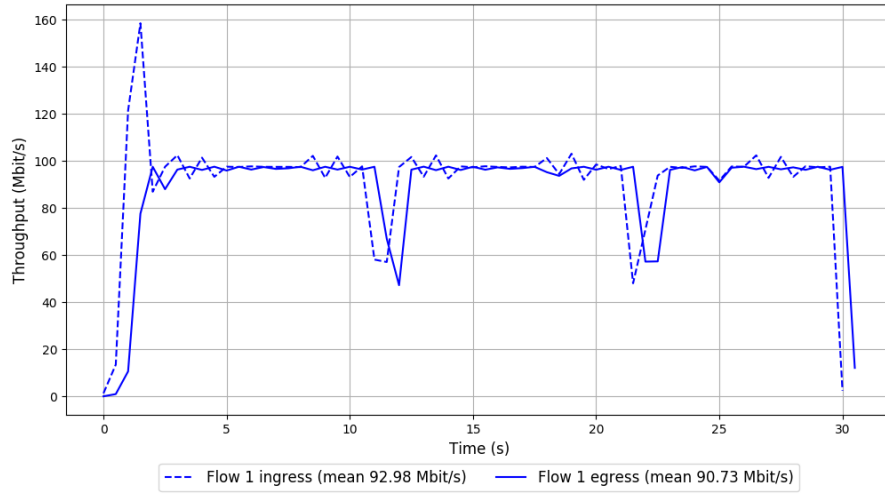


Run 5: Statistics of TCP BBR

Start at: 2019-12-11 04:59:00
End at: 2019-12-11 04:59:30
Local clock offset: -7.505 ms
Remote clock offset: -18.966 ms

Below is generated by plot.py at 2019-12-11 05:01:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.73 Mbit/s
95th percentile per-packet one-way delay: 79.261 ms
Loss rate: 2.41%
-- Flow 1:
Average throughput: 90.73 Mbit/s
95th percentile per-packet one-way delay: 79.261 ms
Loss rate: 2.41%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

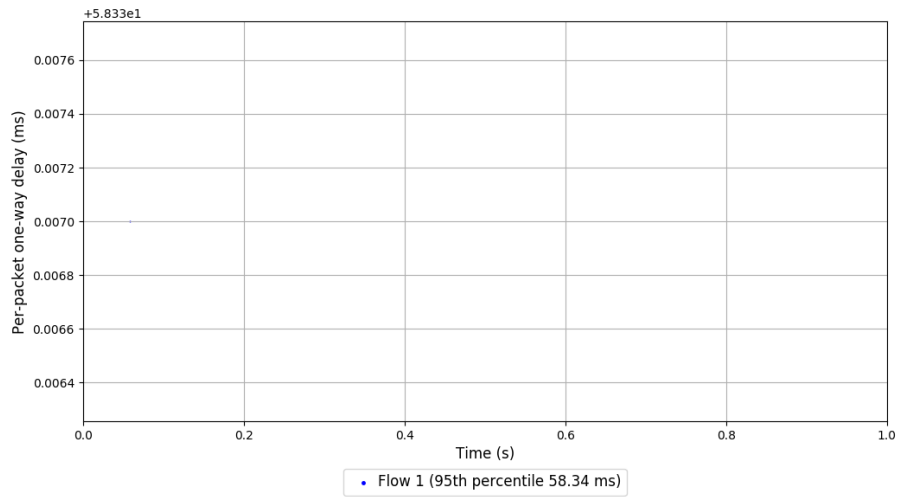
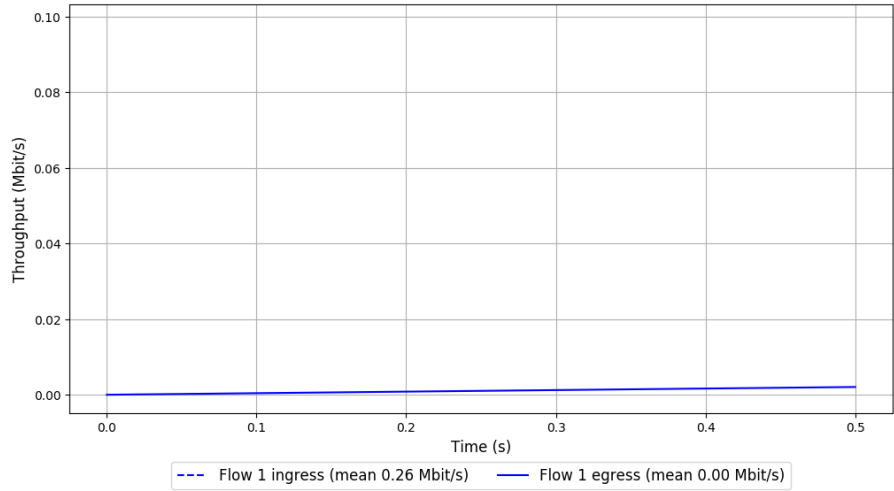
Start at: 2019-12-11 02:40:32

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

Local clock offset: -7.477 ms

Remote clock offset: -0.475 ms

Run 1: Report of Copa — Data Link

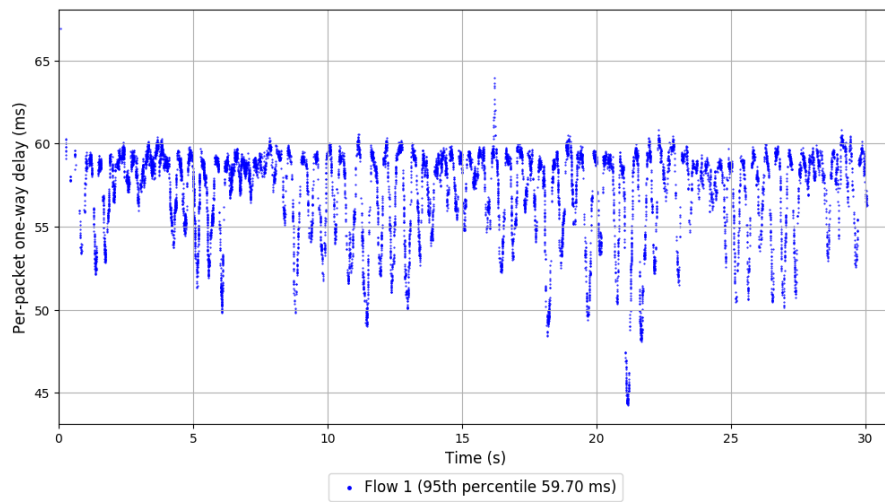
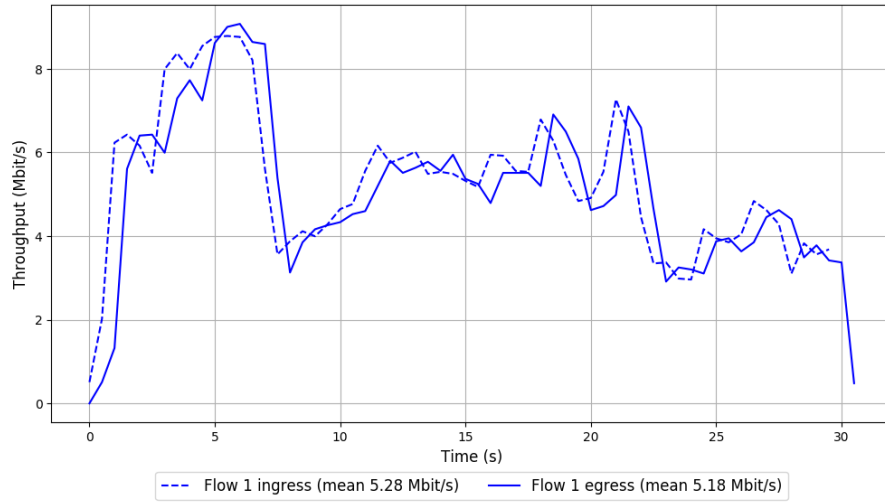


Run 2: Statistics of Copa

Start at: 2019-12-11 03:08:23
End at: 2019-12-11 03:08:53
Local clock offset: -7.764 ms
Remote clock offset: -4.584 ms

Below is generated by plot.py at 2019-12-11 05:01:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.18 Mbit/s
95th percentile per-packet one-way delay: 59.702 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 5.18 Mbit/s
95th percentile per-packet one-way delay: 59.702 ms
Loss rate: 1.93%

Run 2: Report of Copa — Data Link

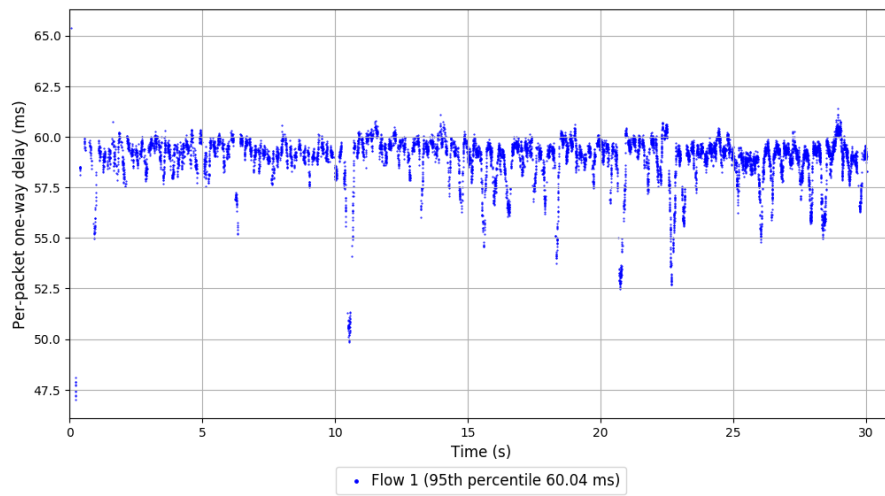
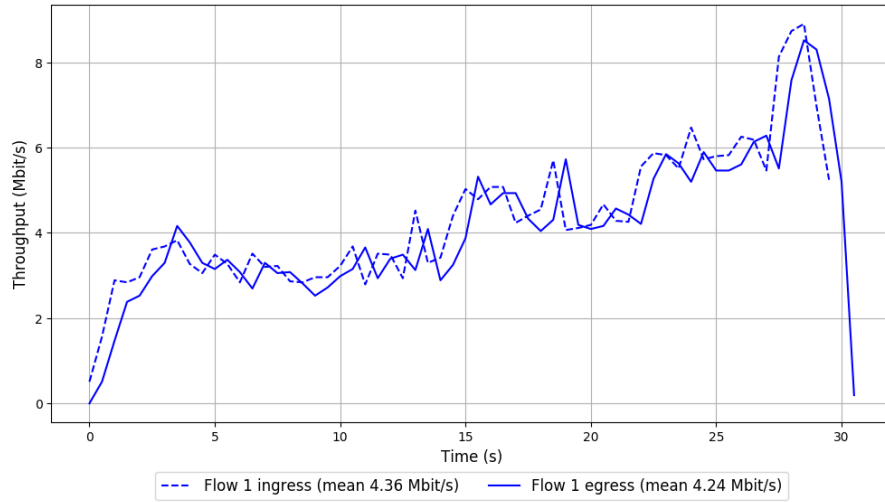


Run 3: Statistics of Copa

Start at: 2019-12-11 03:36:32
End at: 2019-12-11 03:37:02
Local clock offset: -9.873 ms
Remote clock offset: -7.887 ms

```
# Below is generated by plot.py at 2019-12-11 05:01:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 60.041 ms
Loss rate: 2.82%
-- Flow 1:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 60.041 ms
Loss rate: 2.82%
```

Run 3: Report of Copa — Data Link

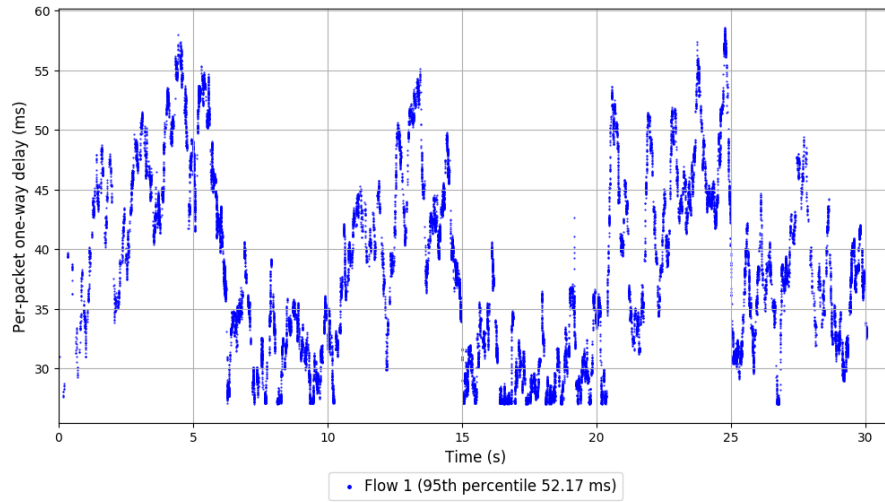
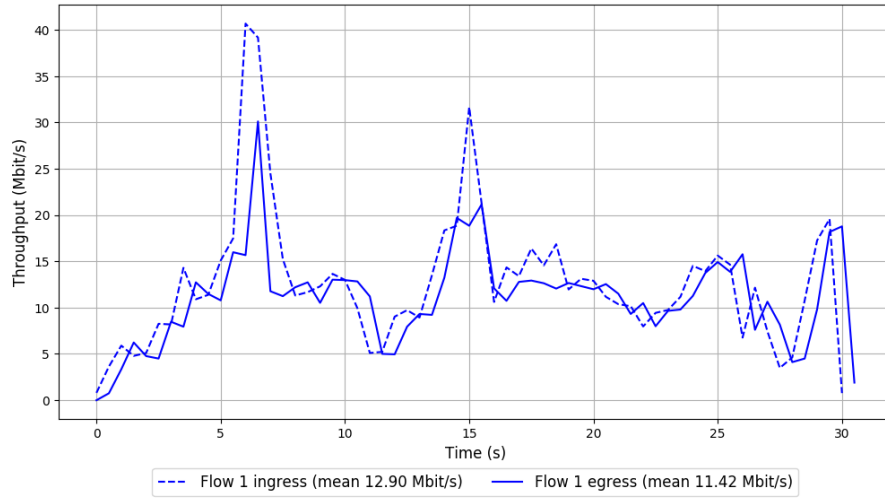


Run 4: Statistics of Copa

Start at: 2019-12-11 04:04:25
End at: 2019-12-11 04:04:55
Local clock offset: -8.568 ms
Remote clock offset: -5.724 ms

```
# Below is generated by plot.py at 2019-12-11 05:01:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.42 Mbit/s
95th percentile per-packet one-way delay: 52.168 ms
Loss rate: 11.51%
-- Flow 1:
Average throughput: 11.42 Mbit/s
95th percentile per-packet one-way delay: 52.168 ms
Loss rate: 11.51%
```

Run 4: Report of Copa — Data Link

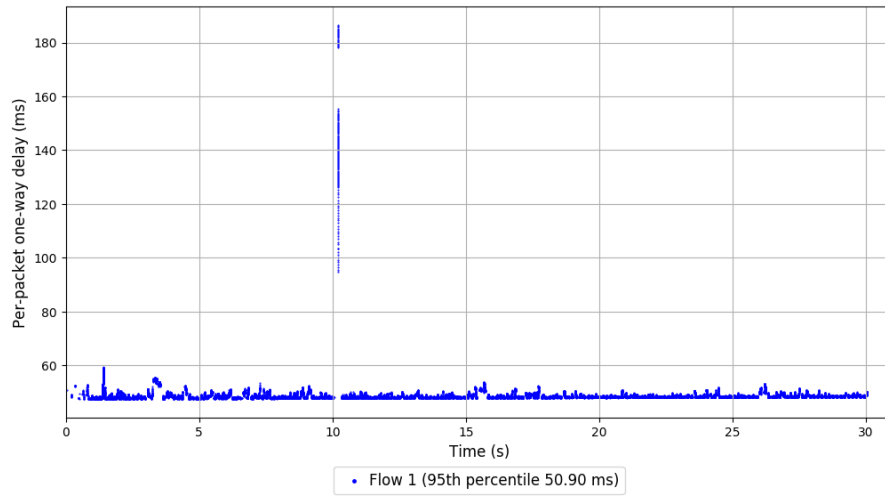
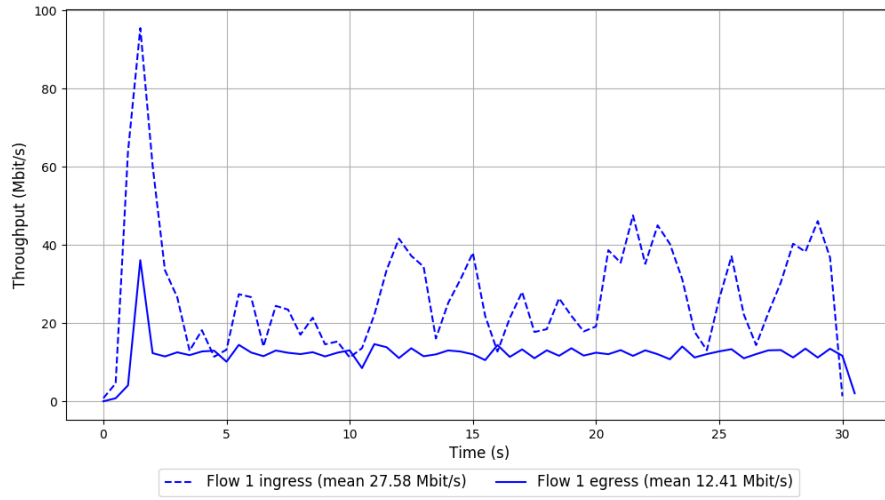


Run 5: Statistics of Copa

Start at: 2019-12-11 04:32:20
End at: 2019-12-11 04:32:50
Local clock offset: -7.282 ms
Remote clock offset: -0.495 ms

Below is generated by plot.py at 2019-12-11 05:01:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.41 Mbit/s
95th percentile per-packet one-way delay: 50.904 ms
Loss rate: 55.01%
-- Flow 1:
Average throughput: 12.41 Mbit/s
95th percentile per-packet one-way delay: 50.904 ms
Loss rate: 55.01%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-12-11 02:41:40
End at: 2019-12-11 02:42:10
Local clock offset: -7.519 ms
Remote clock offset: -1.018 ms

Below is generated by plot.py at 2019-12-11 05:01:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.76 Mbit/s

95th percentile per-packet one-way delay: 59.332 ms

Loss rate: 3.33%

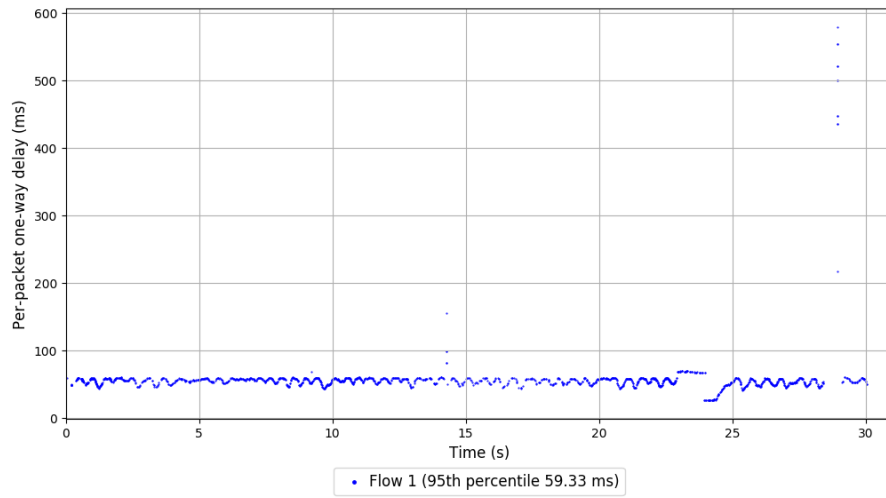
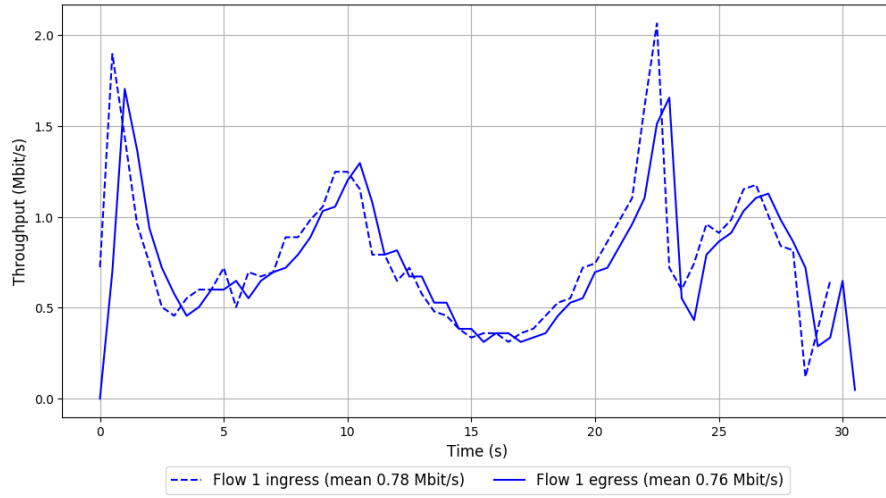
-- Flow 1:

Average throughput: 0.76 Mbit/s

95th percentile per-packet one-way delay: 59.332 ms

Loss rate: 3.33%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-12-11 03:09:32
End at: 2019-12-11 03:10:02
Local clock offset: -7.808 ms
Remote clock offset: -2.153 ms

Below is generated by plot.py at 2019-12-11 05:01:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.96 Mbit/s

95th percentile per-packet one-way delay: 60.371 ms

Loss rate: 1.36%

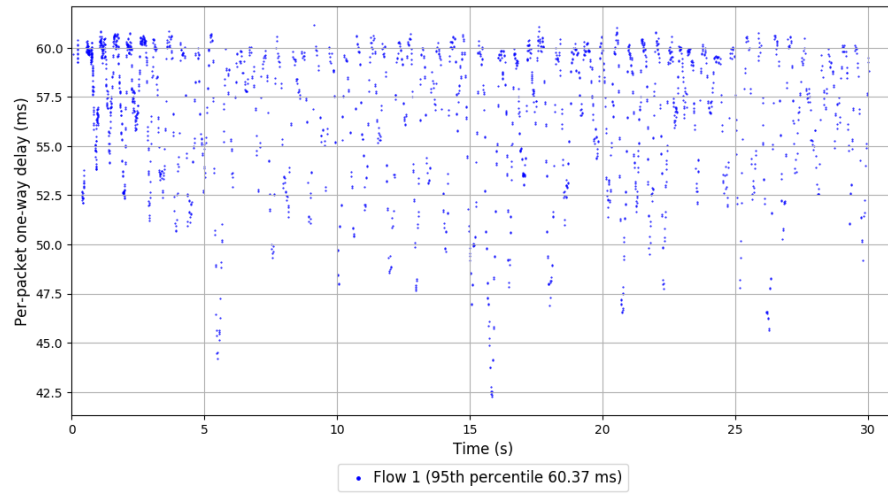
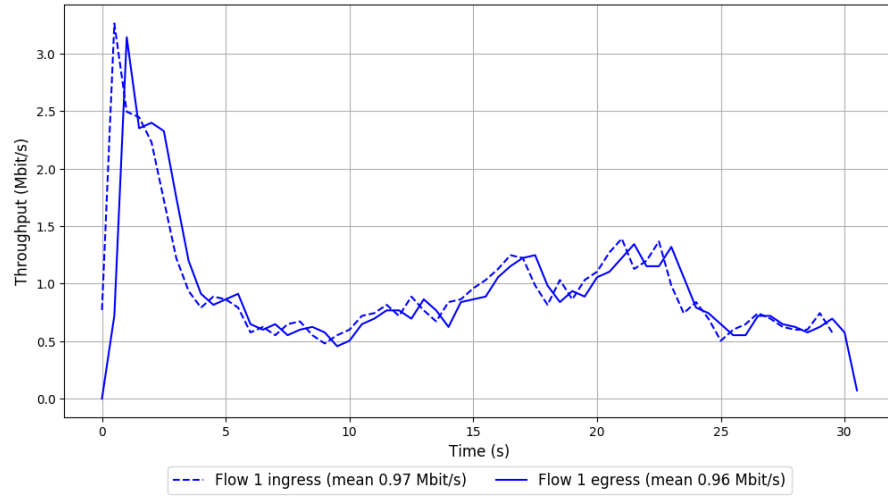
-- Flow 1:

Average throughput: 0.96 Mbit/s

95th percentile per-packet one-way delay: 60.371 ms

Loss rate: 1.36%

Run 2: Report of TCP Cubic — Data Link

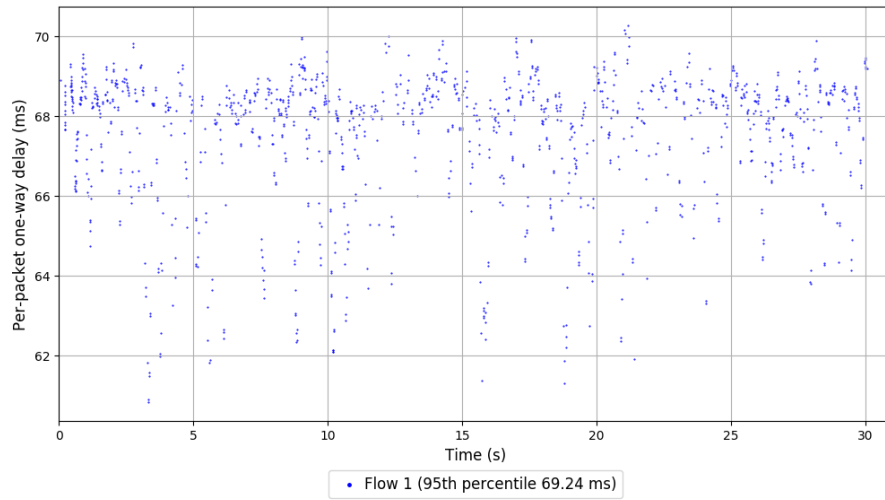
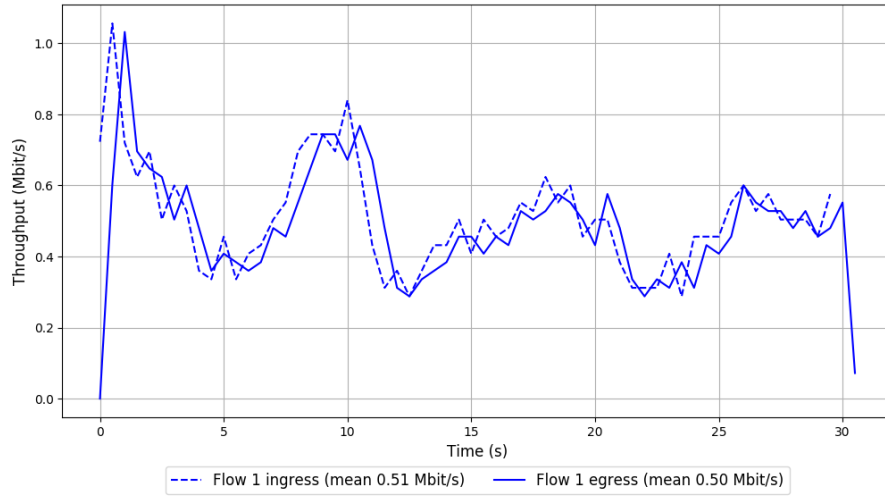


Run 3: Statistics of TCP Cubic

Start at: 2019-12-11 03:37:41
End at: 2019-12-11 03:38:11
Local clock offset: -9.311 ms
Remote clock offset: -8.136 ms

Below is generated by plot.py at 2019-12-11 05:01:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 69.240 ms
Loss rate: 2.50%
-- Flow 1:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 69.240 ms
Loss rate: 2.50%

Run 3: Report of TCP Cubic — Data Link

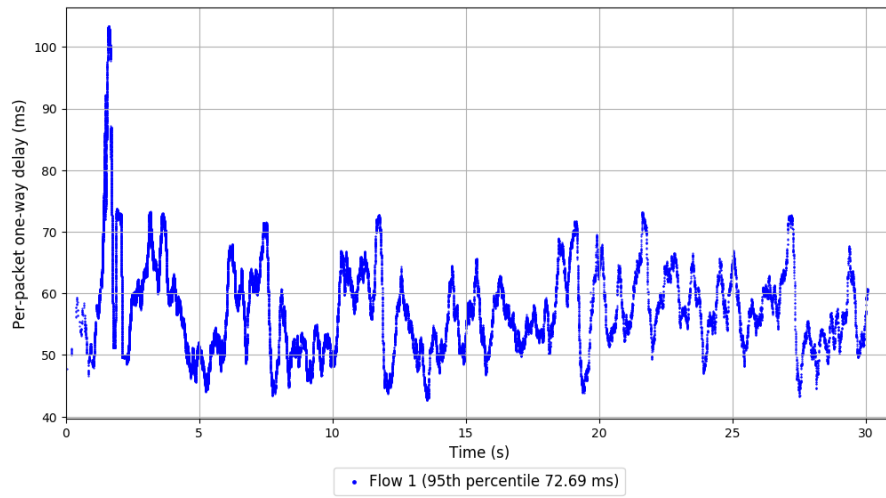
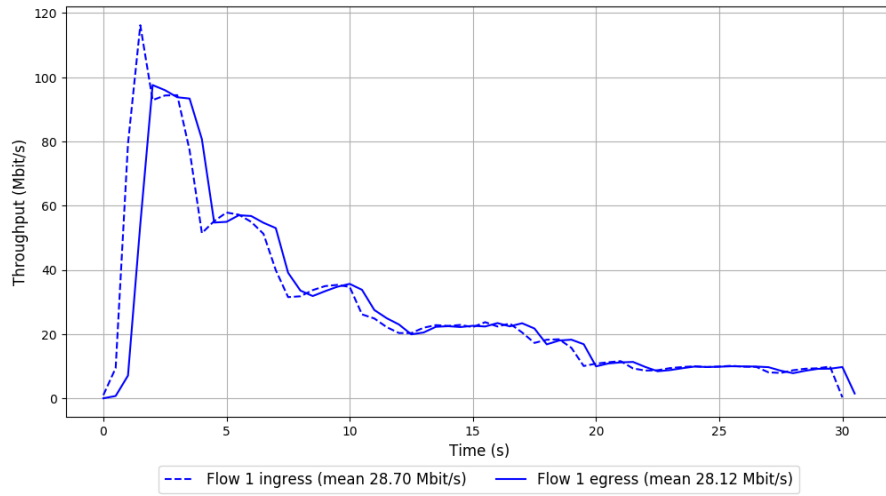


Run 4: Statistics of TCP Cubic

Start at: 2019-12-11 04:05:33
End at: 2019-12-11 04:06:03
Local clock offset: -8.617 ms
Remote clock offset: -0.386 ms

Below is generated by plot.py at 2019-12-11 05:01:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 28.12 Mbit/s
95th percentile per-packet one-way delay: 72.685 ms
Loss rate: 1.97%
-- Flow 1:
Average throughput: 28.12 Mbit/s
95th percentile per-packet one-way delay: 72.685 ms
Loss rate: 1.97%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-12-11 04:33:28

End at: 2019-12-11 04:33:58

Local clock offset: -7.3 ms

Remote clock offset: -2.23 ms

Below is generated by plot.py at 2019-12-11 05:01:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.03 Mbit/s

95th percentile per-packet one-way delay: 73.205 ms

Loss rate: 0.74%

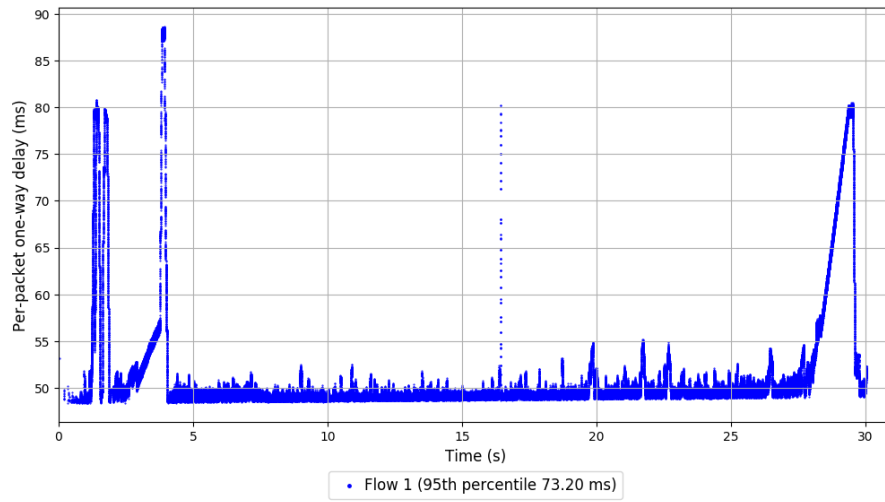
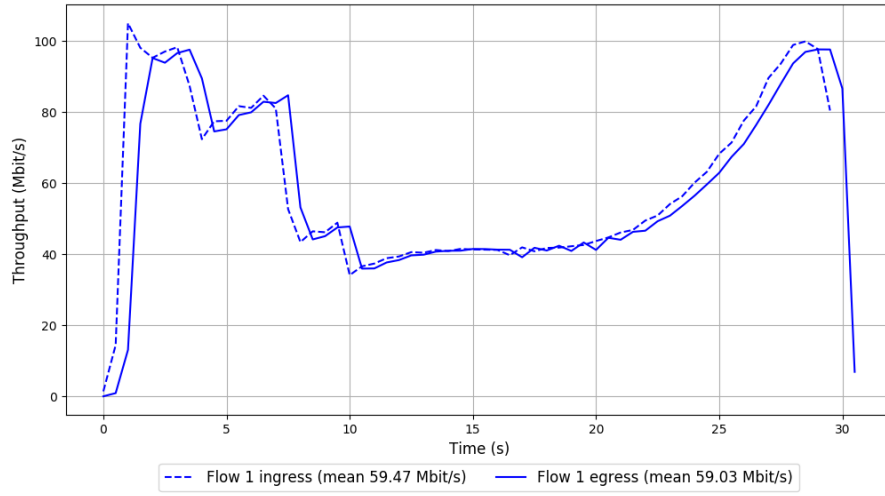
-- Flow 1:

Average throughput: 59.03 Mbit/s

95th percentile per-packet one-way delay: 73.205 ms

Loss rate: 0.74%

Run 5: Report of TCP Cubic — Data Link

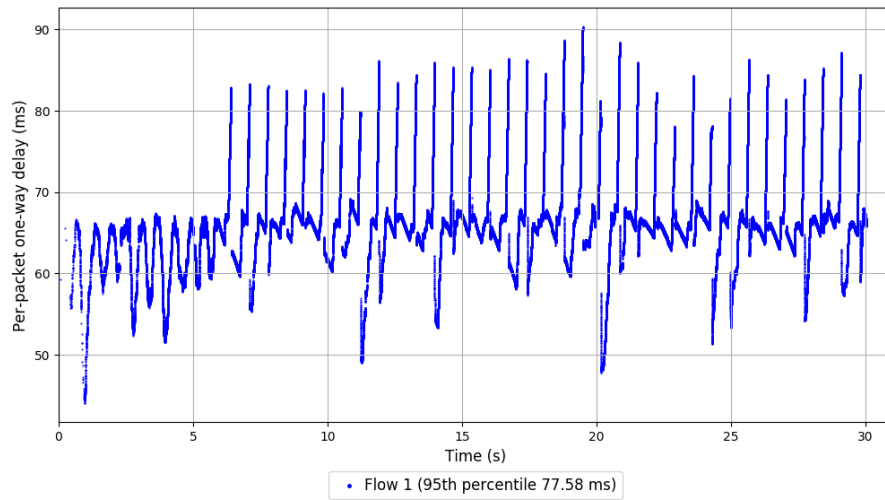
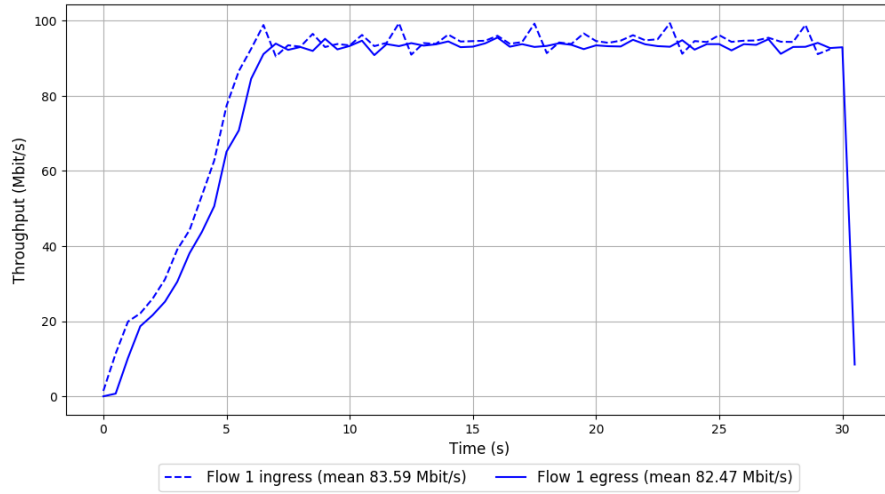


Run 1: Statistics of FillP

Start at: 2019-12-11 02:42:49
End at: 2019-12-11 02:43:19
Local clock offset: -7.11 ms
Remote clock offset: -0.926 ms

Below is generated by plot.py at 2019-12-11 05:02:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.47 Mbit/s
95th percentile per-packet one-way delay: 77.582 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 82.47 Mbit/s
95th percentile per-packet one-way delay: 77.582 ms
Loss rate: 1.35%

Run 1: Report of FillP — Data Link

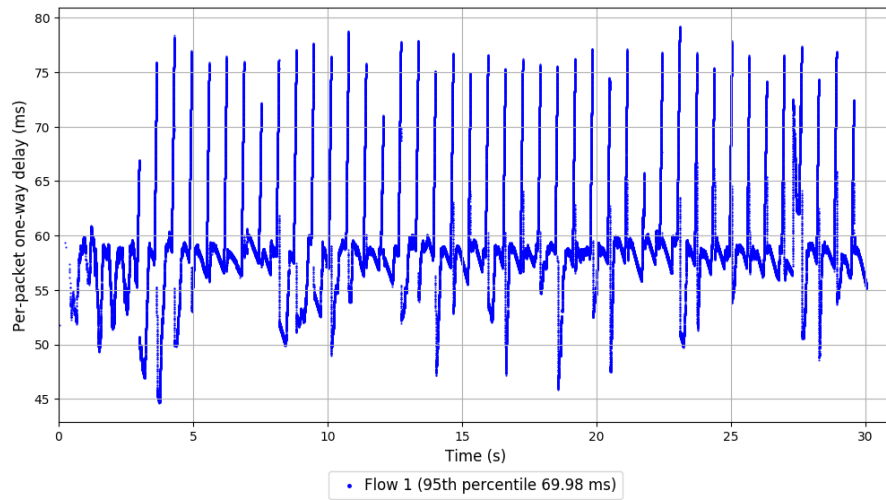
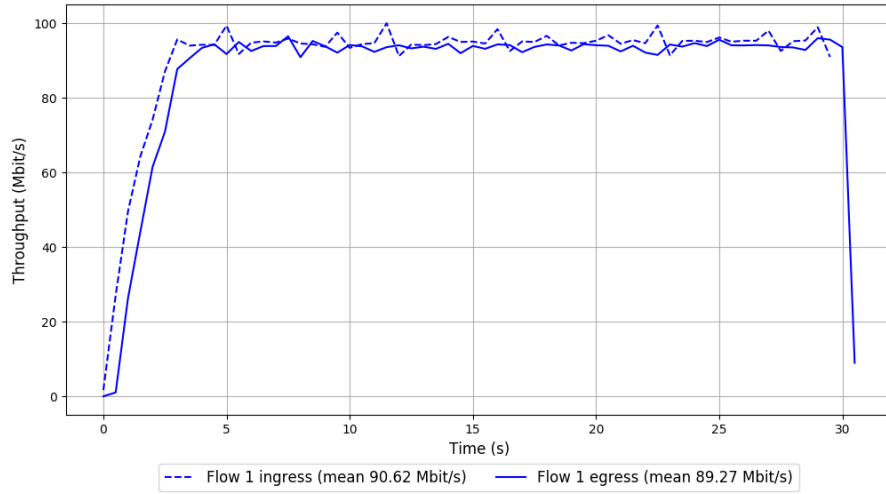


Run 2: Statistics of FillP

Start at: 2019-12-11 03:10:40
End at: 2019-12-11 03:11:10
Local clock offset: -7.838 ms
Remote clock offset: -3.425 ms

Below is generated by plot.py at 2019-12-11 05:02:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.27 Mbit/s
95th percentile per-packet one-way delay: 69.985 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 89.27 Mbit/s
95th percentile per-packet one-way delay: 69.985 ms
Loss rate: 1.48%

Run 2: Report of FillP — Data Link

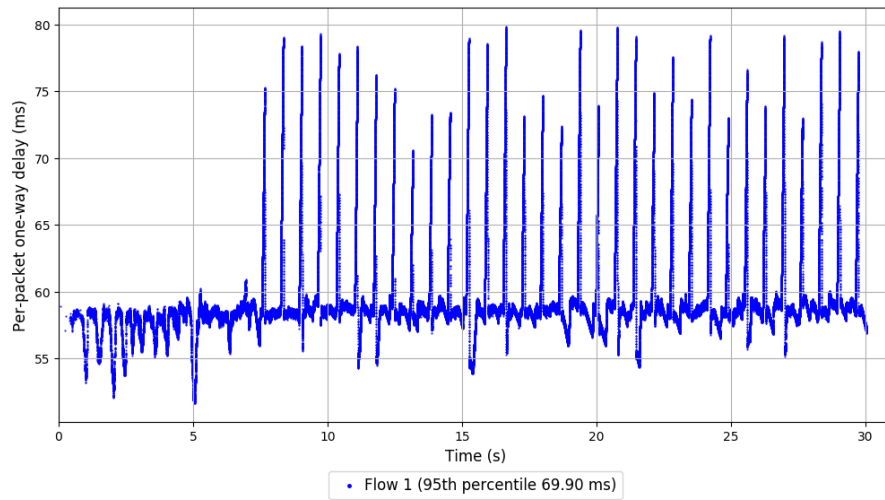
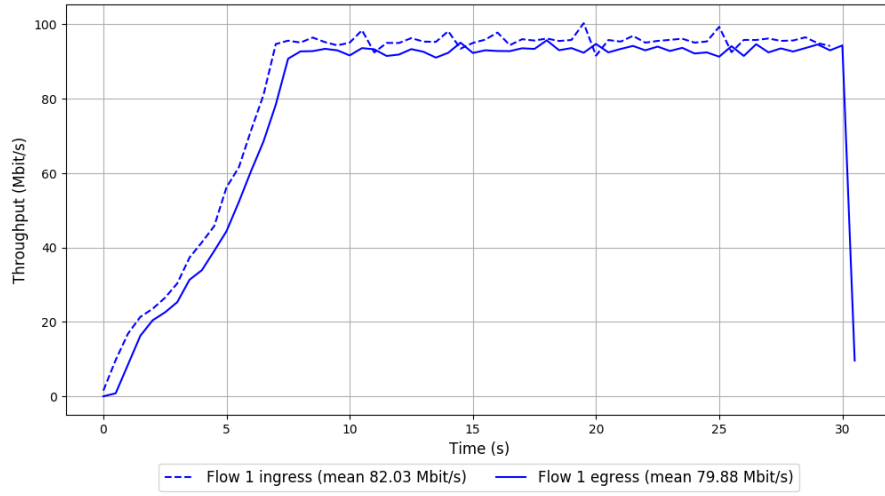


Run 3: Statistics of FillP

Start at: 2019-12-11 03:38:49
End at: 2019-12-11 03:39:19
Local clock offset: -10.075 ms
Remote clock offset: -9.197 ms

Below is generated by plot.py at 2019-12-11 05:02:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.88 Mbit/s
95th percentile per-packet one-way delay: 69.902 ms
Loss rate: 2.64%
-- Flow 1:
Average throughput: 79.88 Mbit/s
95th percentile per-packet one-way delay: 69.902 ms
Loss rate: 2.64%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

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

End at: 2019-12-11 04:07:13

Local clock offset: -8.67 ms

Remote clock offset: -4.055 ms

Below is generated by plot.py at 2019-12-11 05:02:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.59 Mbit/s

95th percentile per-packet one-way delay: 64.329 ms

Loss rate: 1.03%

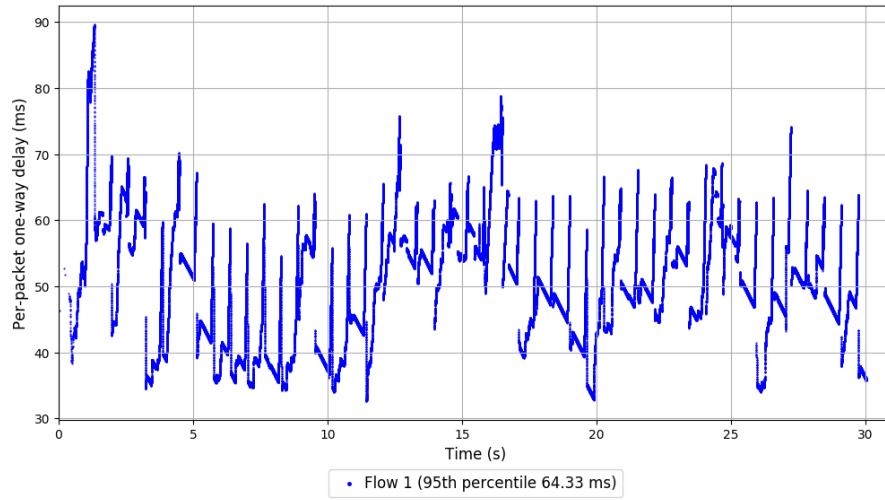
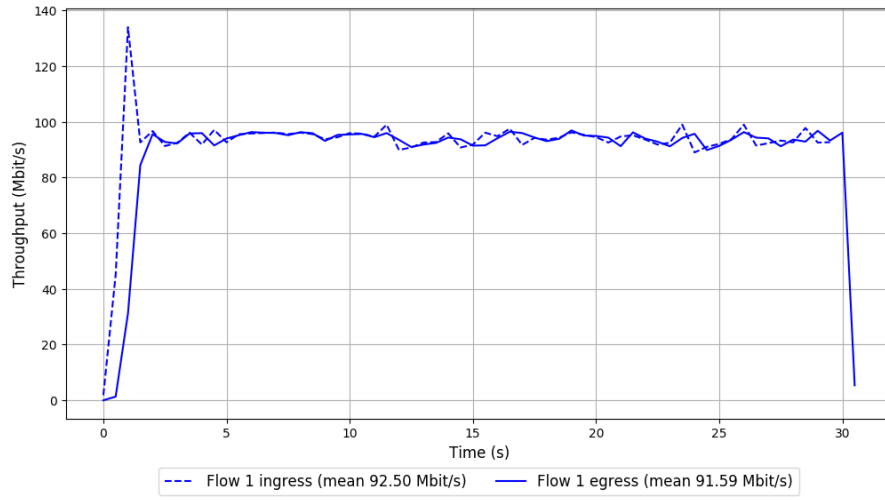
-- Flow 1:

Average throughput: 91.59 Mbit/s

95th percentile per-packet one-way delay: 64.329 ms

Loss rate: 1.03%

Run 4: Report of FillP — Data Link

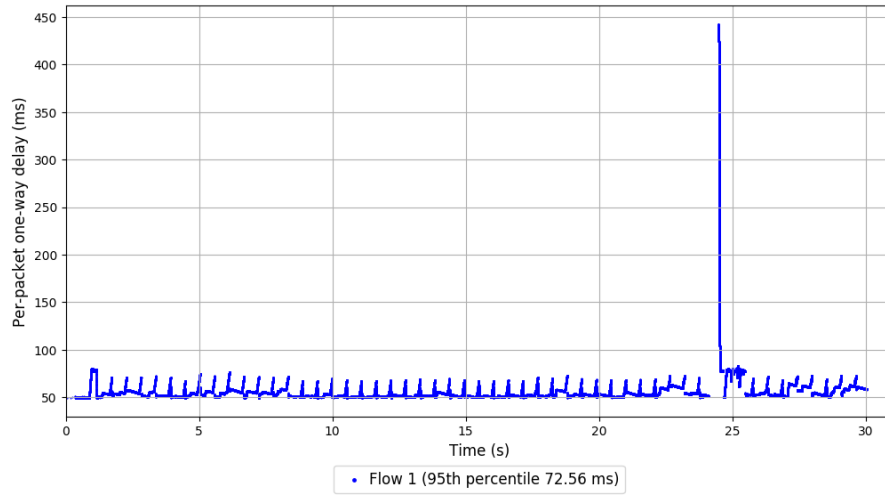
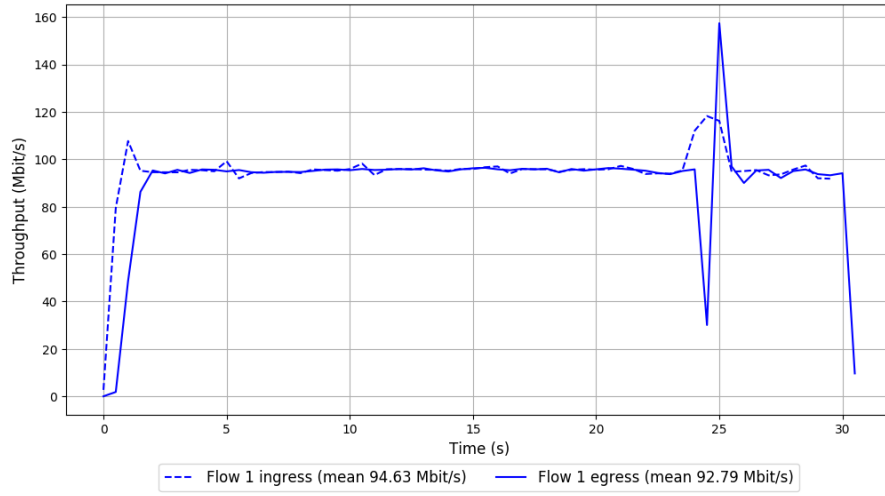


Run 5: Statistics of FillP

Start at: 2019-12-11 04:34:38
End at: 2019-12-11 04:35:08
Local clock offset: -8.081 ms
Remote clock offset: -3.556 ms

Below is generated by plot.py at 2019-12-11 05:03:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.79 Mbit/s
95th percentile per-packet one-way delay: 72.563 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 92.79 Mbit/s
95th percentile per-packet one-way delay: 72.563 ms
Loss rate: 1.93%

Run 5: Report of FillP — Data Link

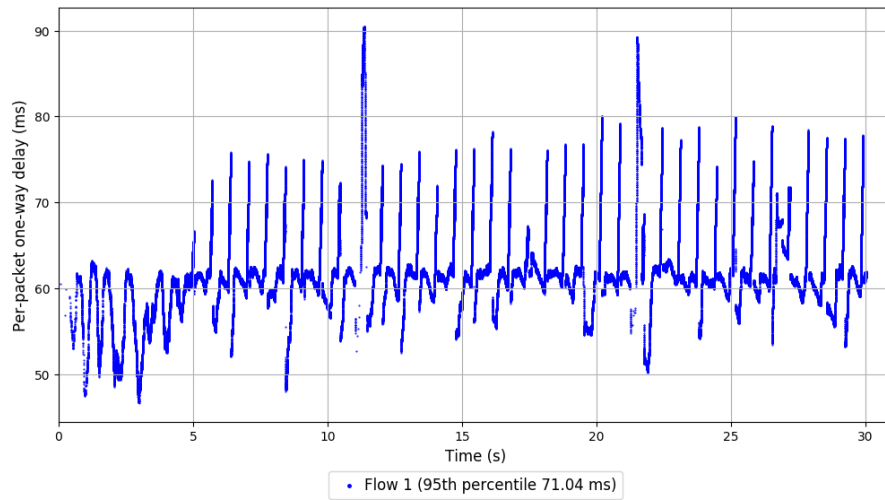
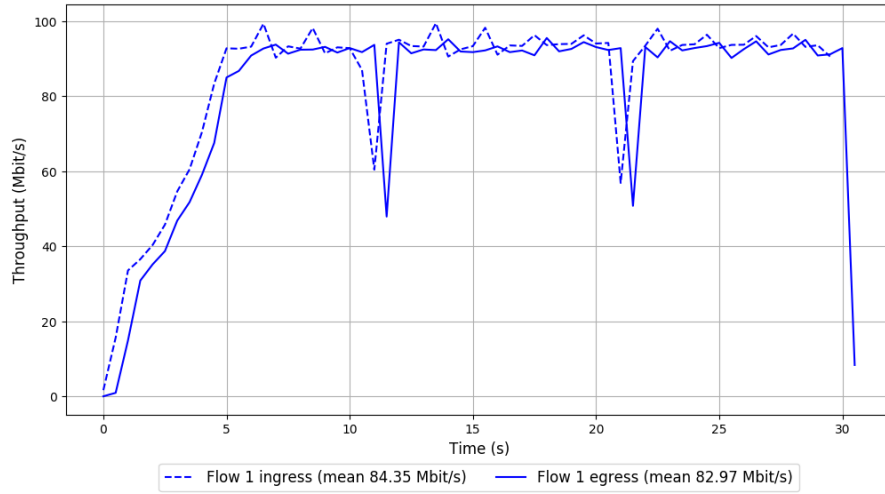


Run 1: Statistics of FillP-Sheep

Start at: 2019-12-11 03:00:16
End at: 2019-12-11 03:00:46
Local clock offset: -7.582 ms
Remote clock offset: -3.062 ms

```
# Below is generated by plot.py at 2019-12-11 05:03:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.97 Mbit/s
95th percentile per-packet one-way delay: 71.041 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 82.97 Mbit/s
95th percentile per-packet one-way delay: 71.041 ms
Loss rate: 1.63%
```

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-12-11 03:28:25

End at: 2019-12-11 03:28:55

Local clock offset: -8.377 ms

Remote clock offset: -9.661 ms

Below is generated by plot.py at 2019-12-11 05:03:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.26 Mbit/s

95th percentile per-packet one-way delay: 67.519 ms

Loss rate: 3.39%

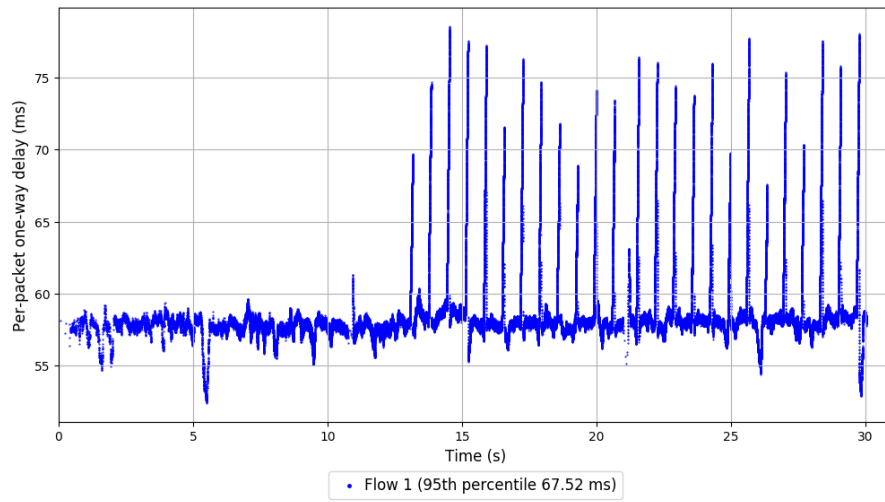
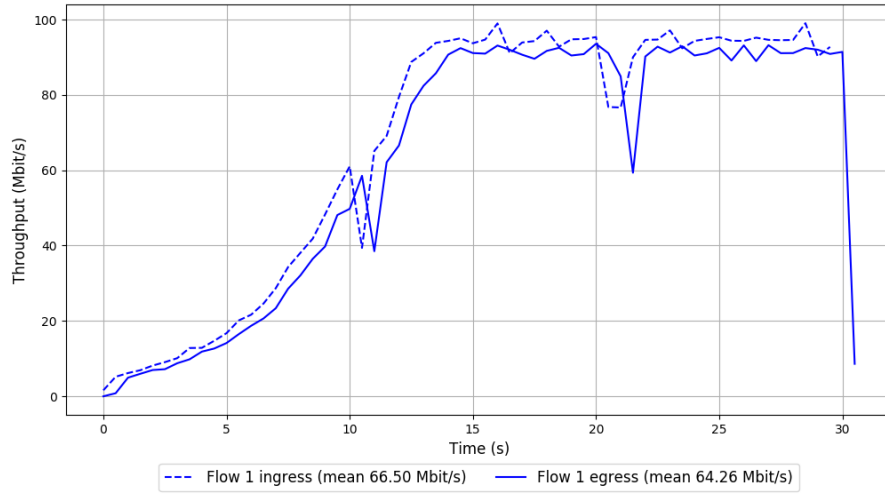
-- Flow 1:

Average throughput: 64.26 Mbit/s

95th percentile per-packet one-way delay: 67.519 ms

Loss rate: 3.39%

Run 2: Report of FillP-Sheep — Data Link

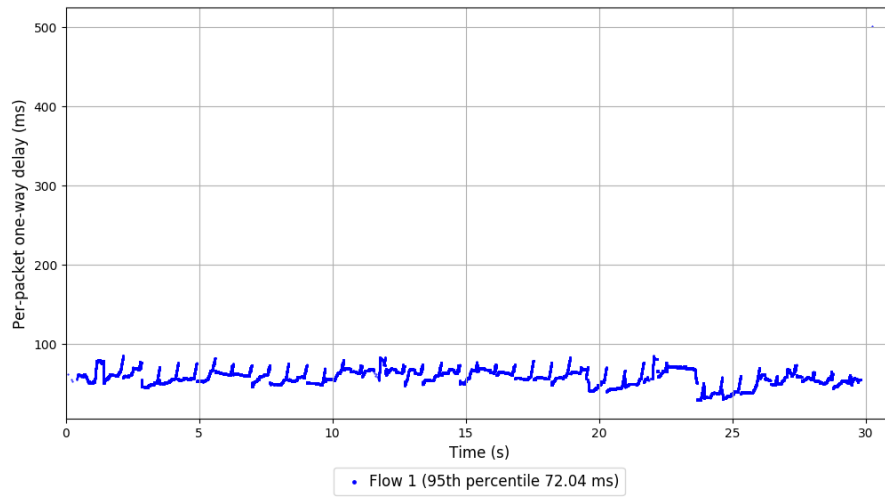
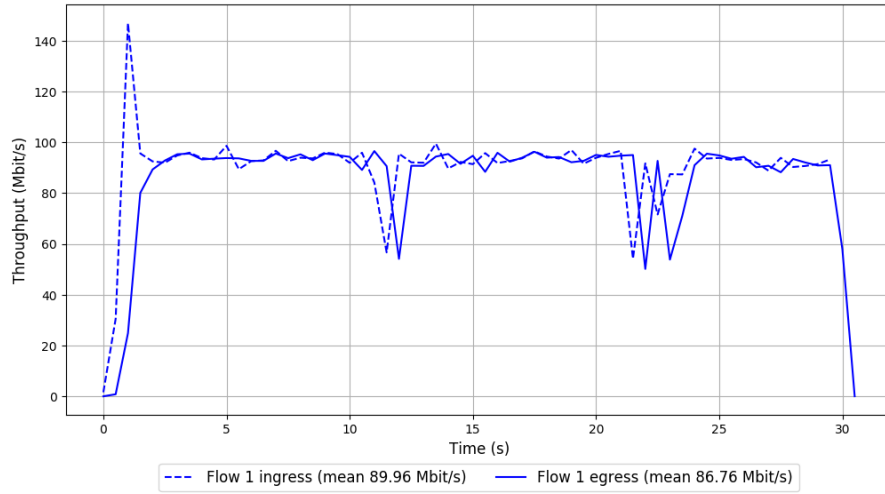


Run 3: Statistics of FillP-Sheep

Start at: 2019-12-11 03:56:17
End at: 2019-12-11 03:56:47
Local clock offset: -7.651 ms
Remote clock offset: -6.964 ms

Below is generated by plot.py at 2019-12-11 05:03:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.76 Mbit/s
95th percentile per-packet one-way delay: 72.043 ms
Loss rate: 2.92%
-- Flow 1:
Average throughput: 86.76 Mbit/s
95th percentile per-packet one-way delay: 72.043 ms
Loss rate: 2.92%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-12-11 04:24:15

End at: 2019-12-11 04:24:45

Local clock offset: -7.868 ms

Remote clock offset: 16.48 ms

Below is generated by plot.py at 2019-12-11 05:03:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.73 Mbit/s

95th percentile per-packet one-way delay: 73.064 ms

Loss rate: 1.12%

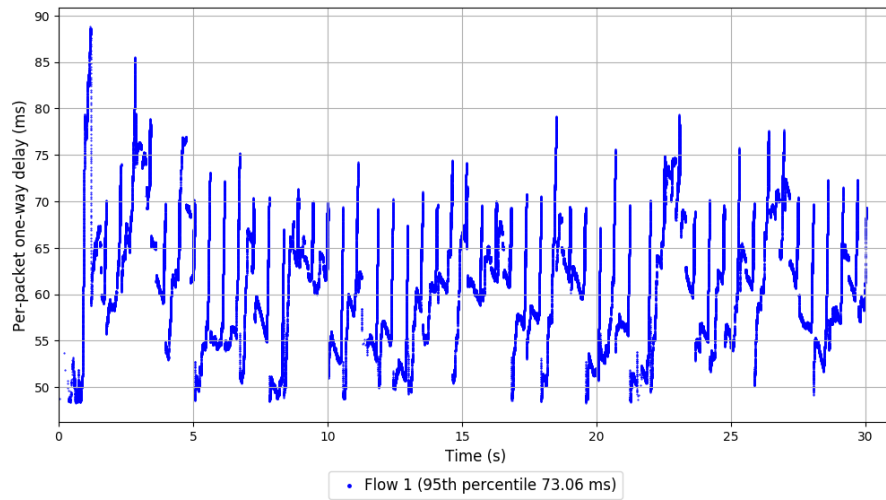
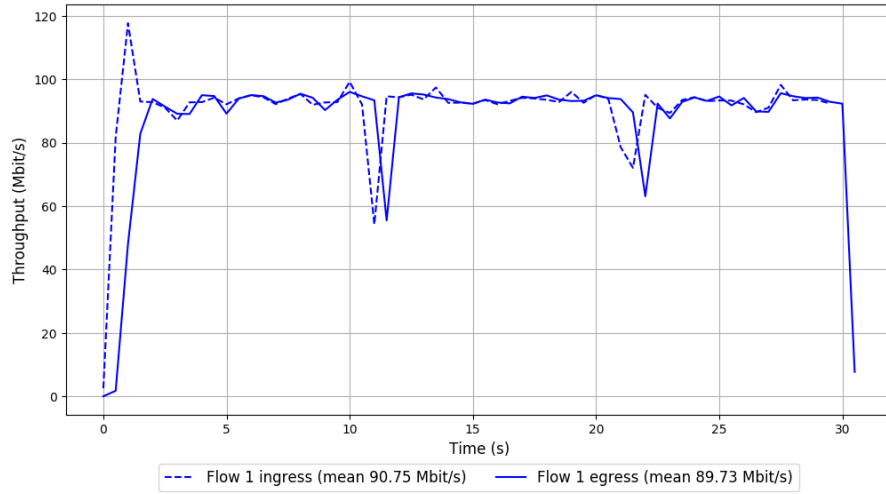
-- Flow 1:

Average throughput: 89.73 Mbit/s

95th percentile per-packet one-way delay: 73.064 ms

Loss rate: 1.12%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-12-11 04:52:07

End at: 2019-12-11 04:52:37

Local clock offset: -7.511 ms

Remote clock offset: -16.2 ms

Below is generated by plot.py at 2019-12-11 05:03:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.97 Mbit/s

95th percentile per-packet one-way delay: 88.218 ms

Loss rate: 2.40%

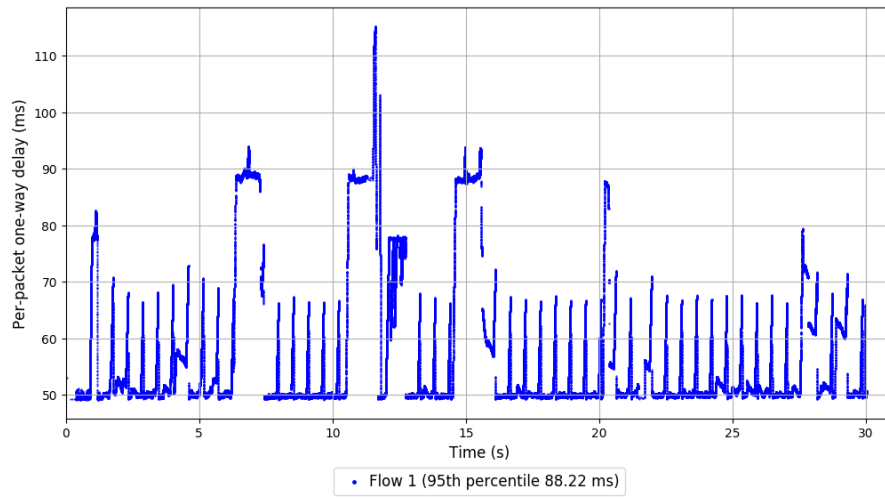
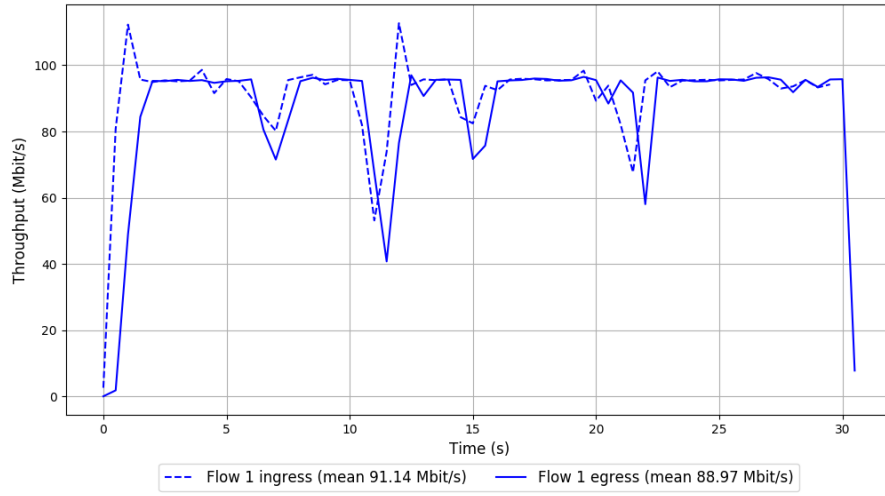
-- Flow 1:

Average throughput: 88.97 Mbit/s

95th percentile per-packet one-way delay: 88.218 ms

Loss rate: 2.40%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-12-11 02:57:58
End at: 2019-12-11 02:58:28
Local clock offset: -8.025 ms
Remote clock offset: -3.223 ms

Below is generated by plot.py at 2019-12-11 05:03:49

Datalink statistics

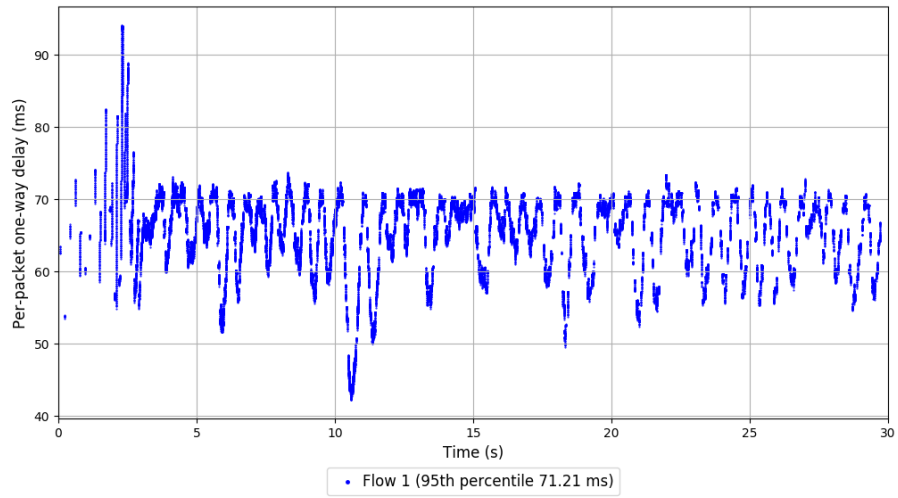
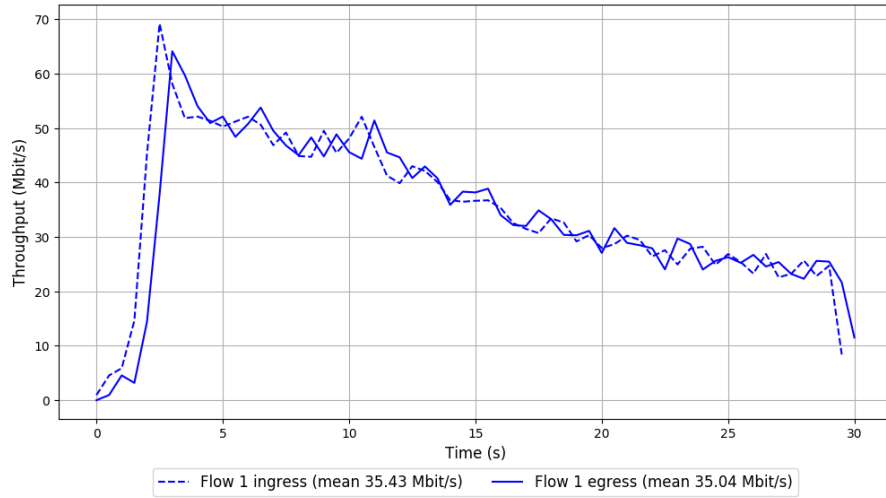
-- Total of 1 flow:

Average throughput: 35.04 Mbit/s
95th percentile per-packet one-way delay: 71.208 ms
Loss rate: 1.07%

-- Flow 1:

Average throughput: 35.04 Mbit/s
95th percentile per-packet one-way delay: 71.208 ms
Loss rate: 1.07%

Run 1: Report of Indigo — Data Link

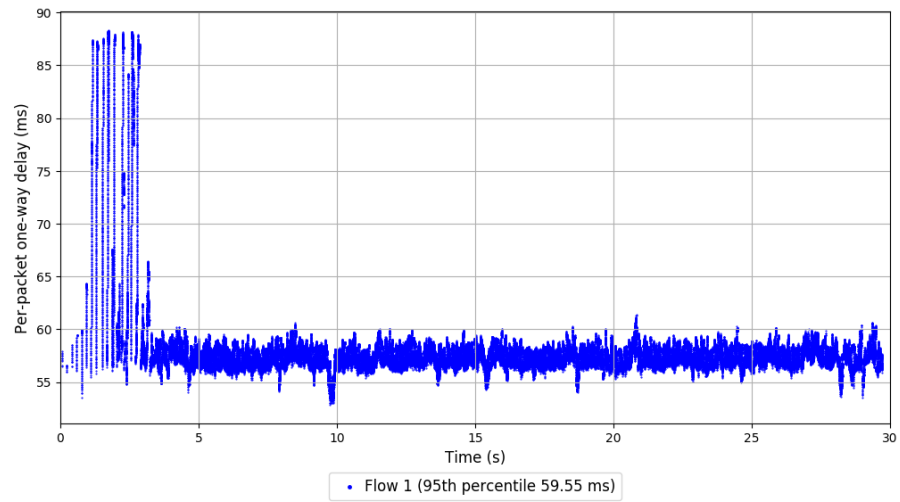
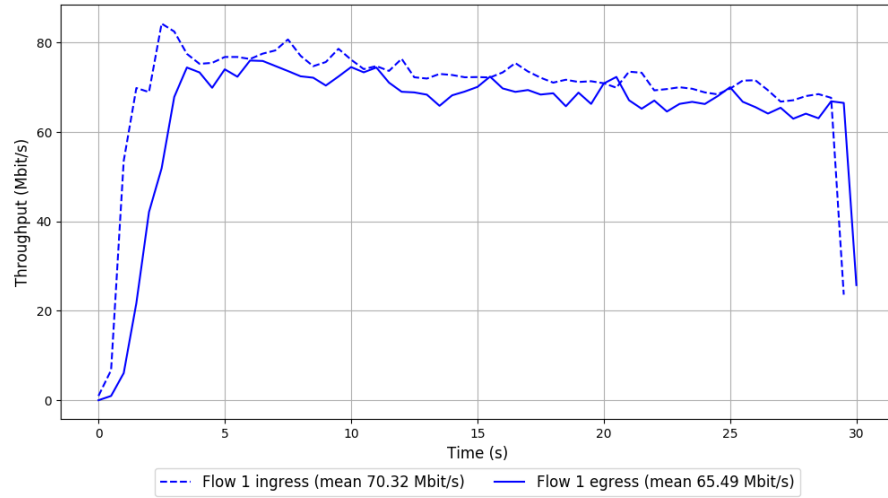


Run 2: Statistics of Indigo

Start at: 2019-12-11 03:26:04
End at: 2019-12-11 03:26:34
Local clock offset: -8.176 ms
Remote clock offset: -8.604 ms

Below is generated by plot.py at 2019-12-11 05:03:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 65.49 Mbit/s
95th percentile per-packet one-way delay: 59.552 ms
Loss rate: 6.87%
-- Flow 1:
Average throughput: 65.49 Mbit/s
95th percentile per-packet one-way delay: 59.552 ms
Loss rate: 6.87%

Run 2: Report of Indigo — Data Link

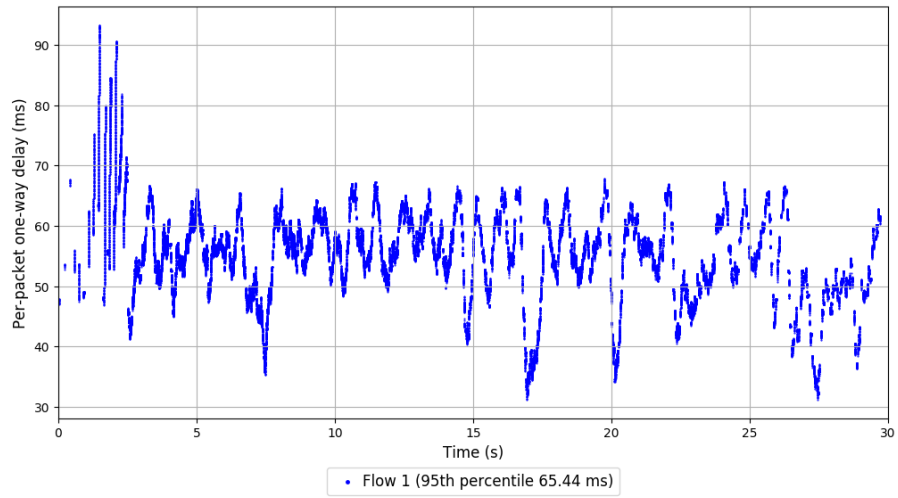
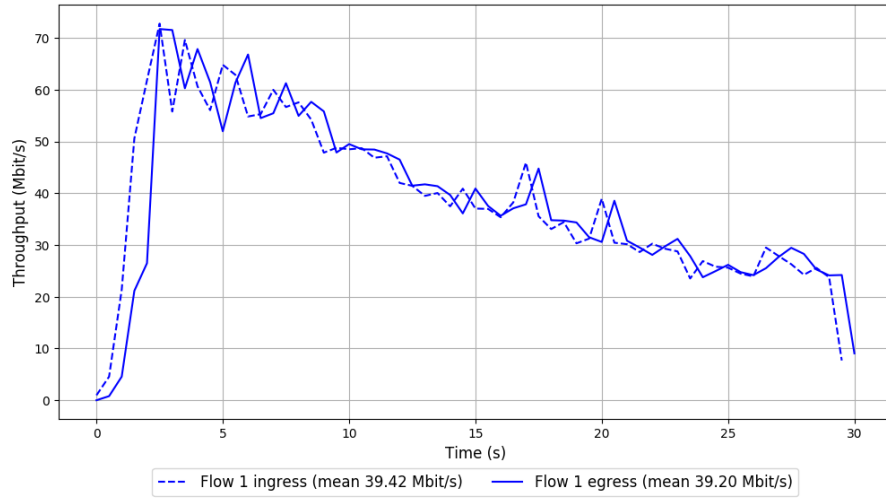


Run 3: Statistics of Indigo

Start at: 2019-12-11 03:53:59
End at: 2019-12-11 03:54:29
Local clock offset: -7.707 ms
Remote clock offset: -8.818 ms

Below is generated by plot.py at 2019-12-11 05:03:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 39.20 Mbit/s
95th percentile per-packet one-way delay: 65.440 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 39.20 Mbit/s
95th percentile per-packet one-way delay: 65.440 ms
Loss rate: 0.52%

Run 3: Report of Indigo — Data Link

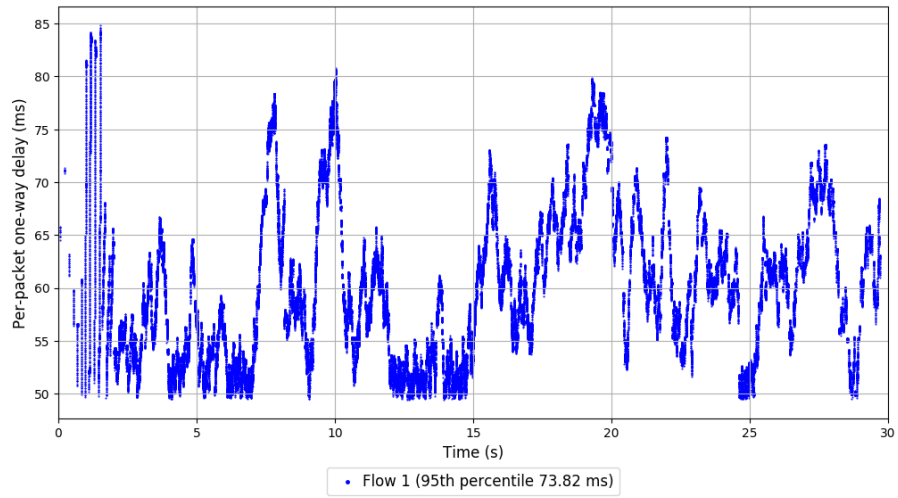
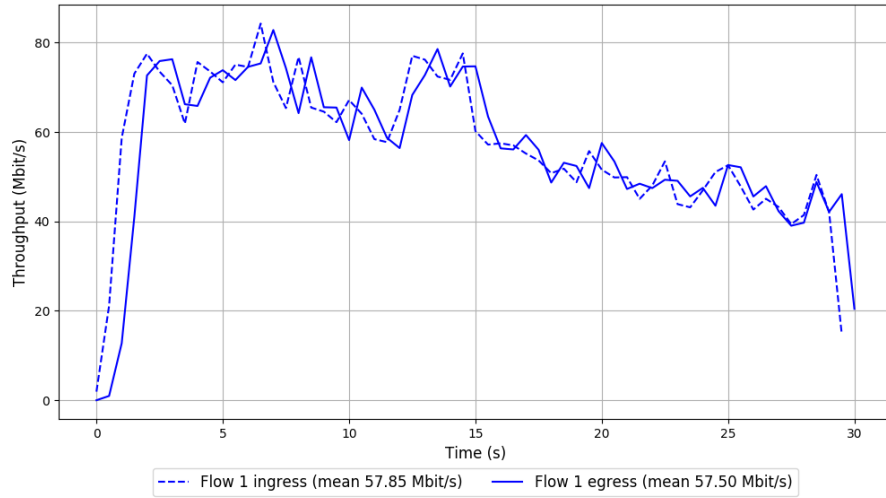


Run 4: Statistics of Indigo

Start at: 2019-12-11 04:21:57
End at: 2019-12-11 04:22:27
Local clock offset: -7.167 ms
Remote clock offset: 16.148 ms

Below is generated by plot.py at 2019-12-11 05:03:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 57.50 Mbit/s
95th percentile per-packet one-way delay: 73.820 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 57.50 Mbit/s
95th percentile per-packet one-way delay: 73.820 ms
Loss rate: 0.61%

Run 4: Report of Indigo — Data Link

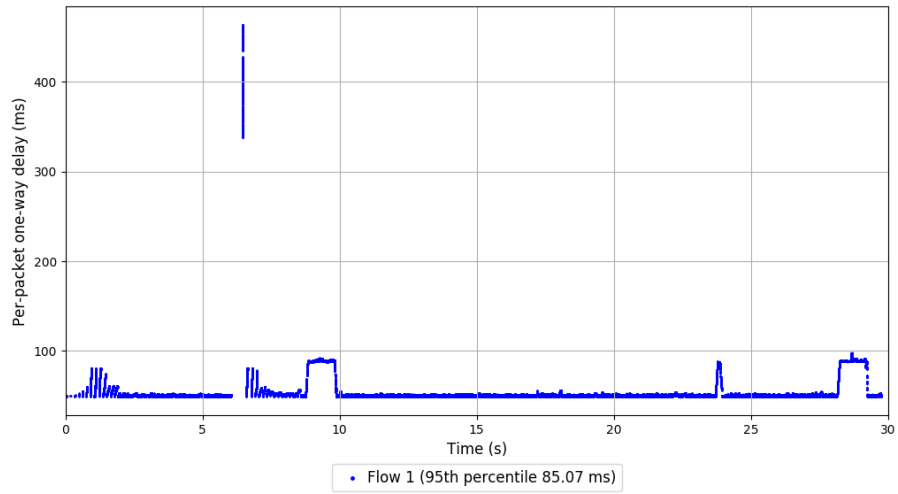
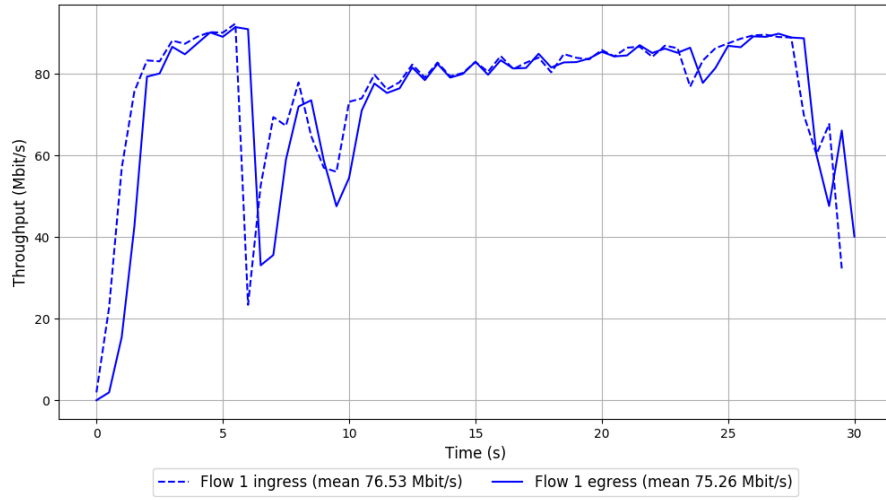


Run 5: Statistics of Indigo

Start at: 2019-12-11 04:49:49
End at: 2019-12-11 04:50:19
Local clock offset: -7.527 ms
Remote clock offset: -15.503 ms

```
# Below is generated by plot.py at 2019-12-11 05:03:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.26 Mbit/s
95th percentile per-packet one-way delay: 85.074 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 75.26 Mbit/s
95th percentile per-packet one-way delay: 85.074 ms
Loss rate: 1.66%
```

Run 5: Report of Indigo — Data Link

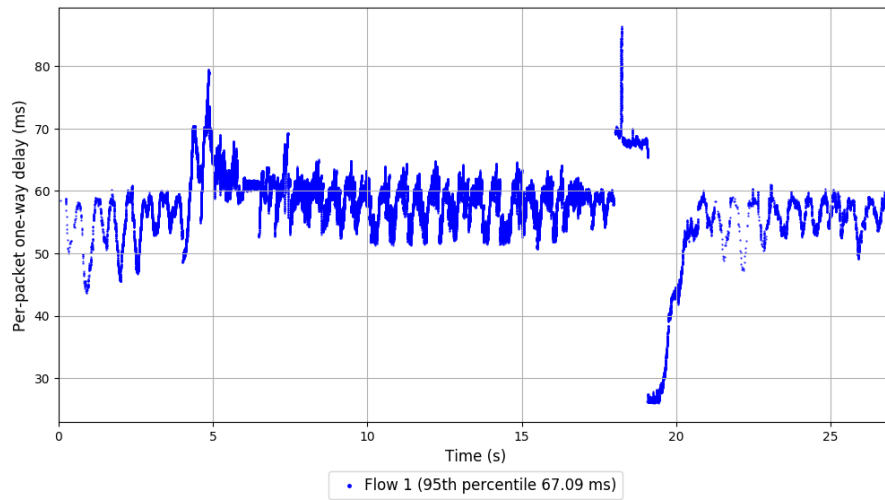
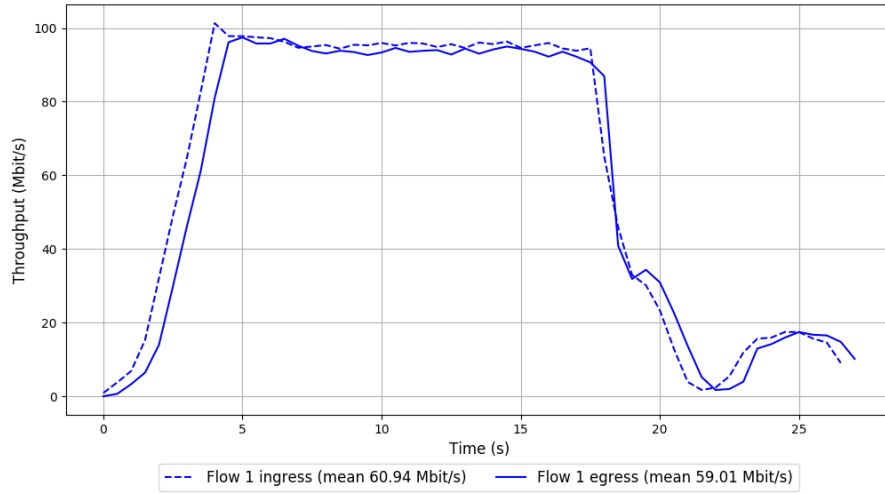


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-12-11 02:44:00
End at: 2019-12-11 02:44:30
Local clock offset: -8.121 ms
Remote clock offset: -2.195 ms

Below is generated by plot.py at 2019-12-11 05:03:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 59.01 Mbit/s
95th percentile per-packet one-way delay: 67.094 ms
Loss rate: 3.18%
-- Flow 1:
Average throughput: 59.01 Mbit/s
95th percentile per-packet one-way delay: 67.094 ms
Loss rate: 3.18%

Run 1: Report of Indigo-MusesC3 — Data Link

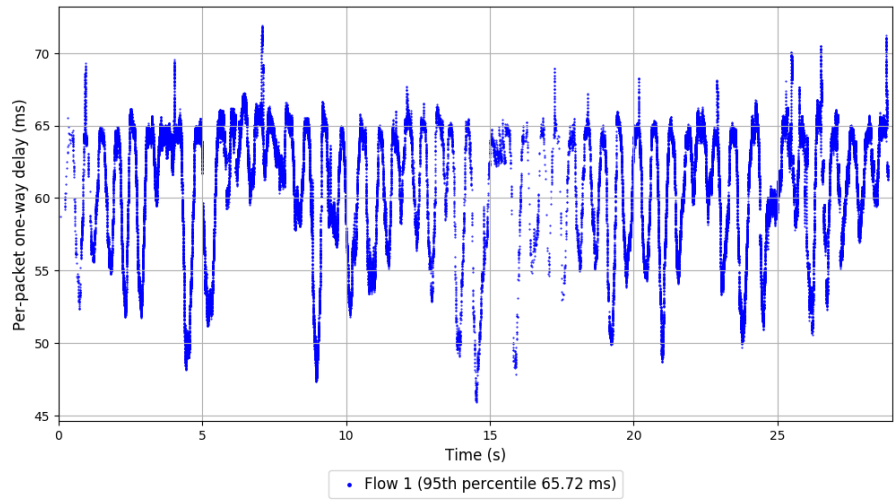
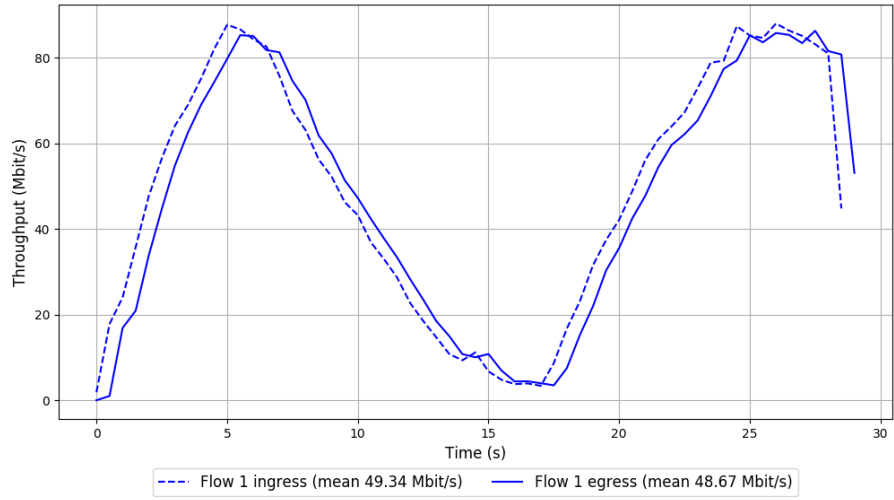


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-12-11 03:11:53
End at: 2019-12-11 03:12:23
Local clock offset: -7.92 ms
Remote clock offset: -4.955 ms

Below is generated by plot.py at 2019-12-11 05:03:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 48.67 Mbit/s
95th percentile per-packet one-way delay: 65.720 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 48.67 Mbit/s
95th percentile per-packet one-way delay: 65.720 ms
Loss rate: 1.36%

Run 2: Report of Indigo-MusesC3 — Data Link

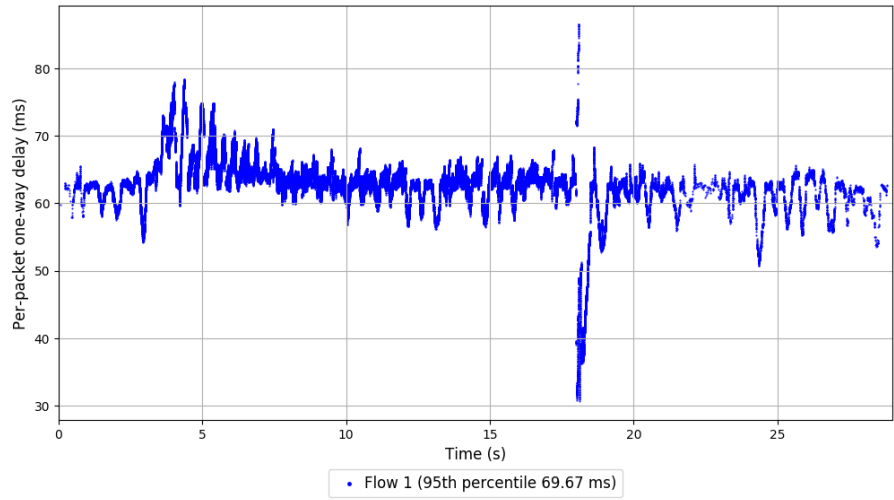
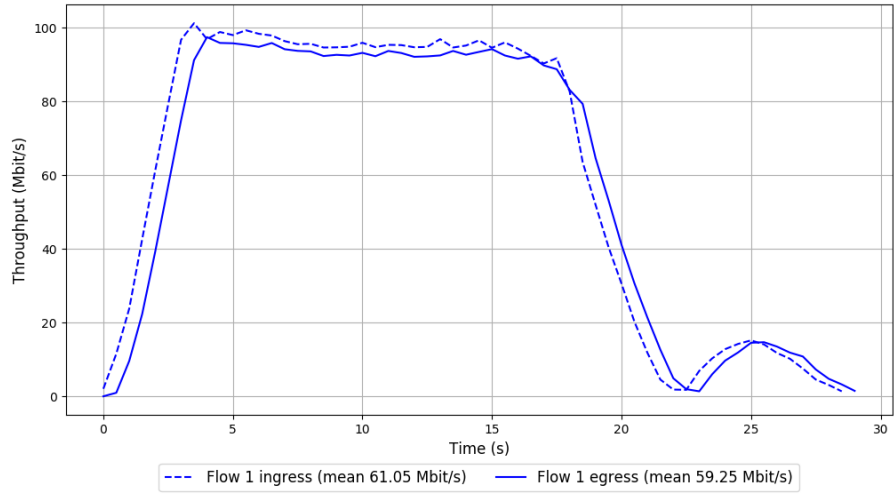


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-12-11 03:40:01
End at: 2019-12-11 03:40:31
Local clock offset: -9.773 ms
Remote clock offset: -5.346 ms

Below is generated by plot.py at 2019-12-11 05:04:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 59.25 Mbit/s
95th percentile per-packet one-way delay: 69.667 ms
Loss rate: 2.93%
-- Flow 1:
Average throughput: 59.25 Mbit/s
95th percentile per-packet one-way delay: 69.667 ms
Loss rate: 2.93%

Run 3: Report of Indigo-MusesC3 — Data Link

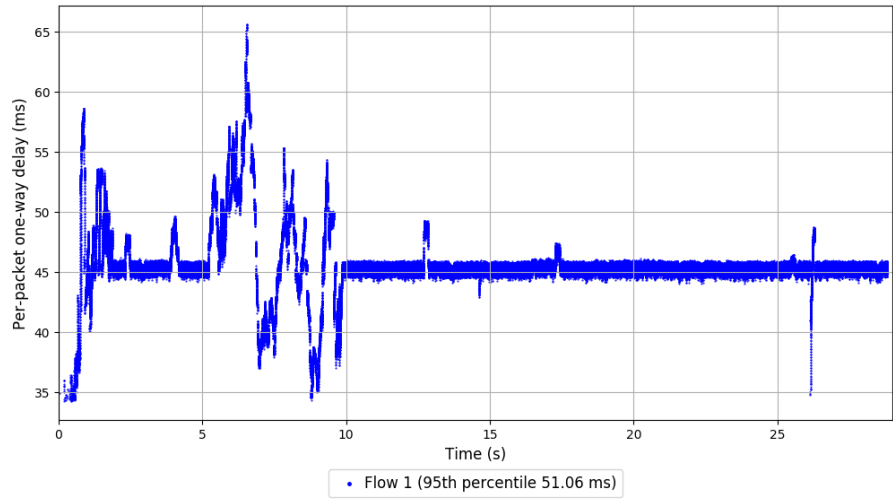
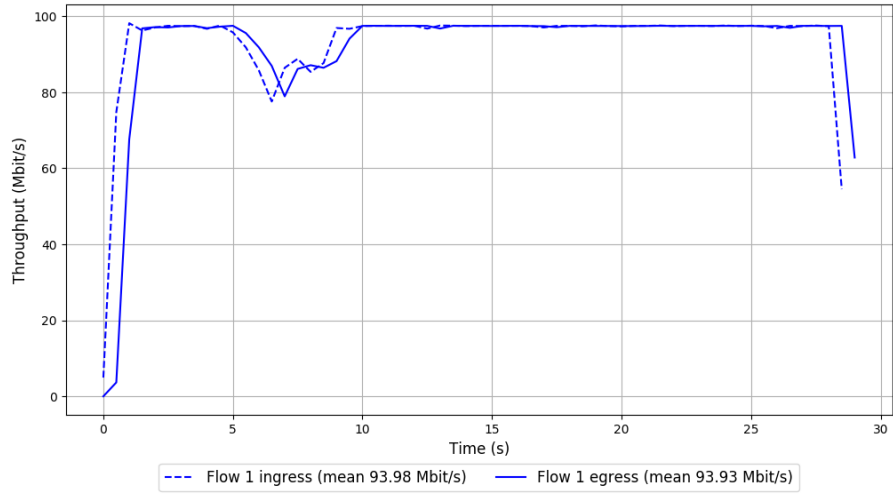


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-12-11 04:07:54
End at: 2019-12-11 04:08:24
Local clock offset: -8.711 ms
Remote clock offset: -0.019 ms

Below is generated by plot.py at 2019-12-11 05:04:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.93 Mbit/s
95th percentile per-packet one-way delay: 51.063 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 93.93 Mbit/s
95th percentile per-packet one-way delay: 51.063 ms
Loss rate: 0.02%

Run 4: Report of Indigo-MusesC3 — Data Link

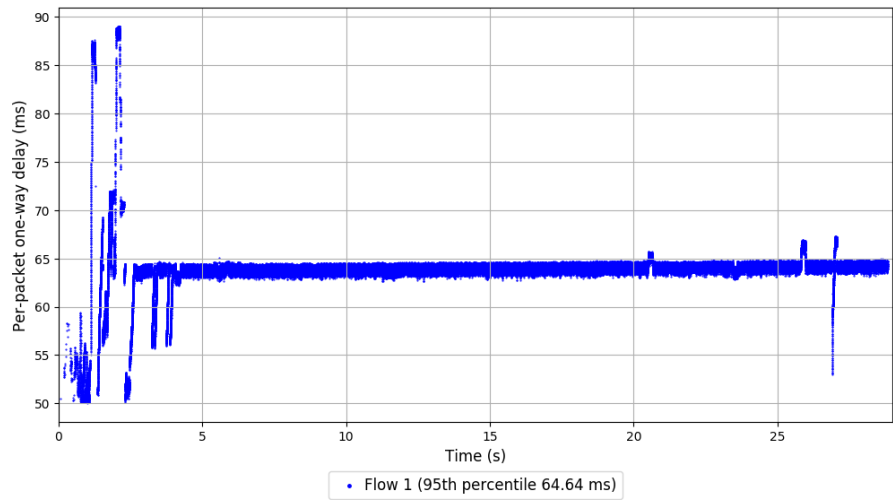
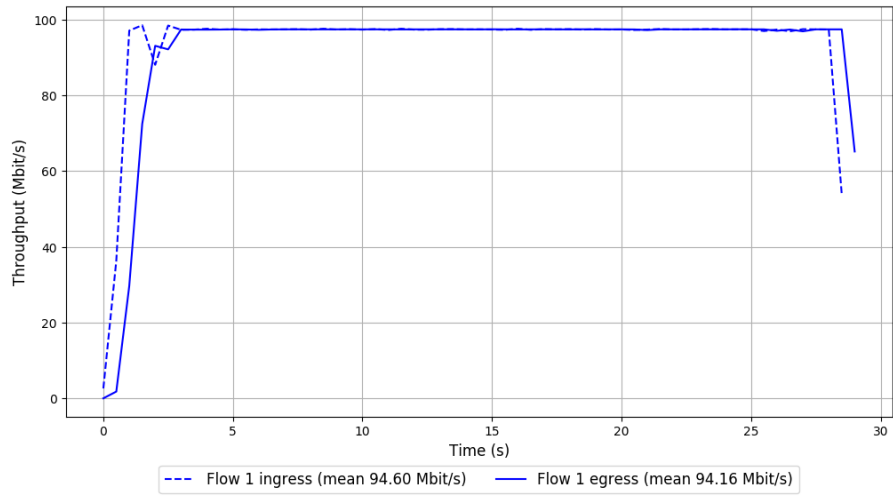


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-12-11 04:35:49
End at: 2019-12-11 04:36:19
Local clock offset: -7.337 ms
Remote clock offset: -5.377 ms

Below is generated by plot.py at 2019-12-11 05:04:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.16 Mbit/s
95th percentile per-packet one-way delay: 64.636 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 94.16 Mbit/s
95th percentile per-packet one-way delay: 64.636 ms
Loss rate: 0.43%

Run 5: Report of Indigo-MusesC3 — Data Link

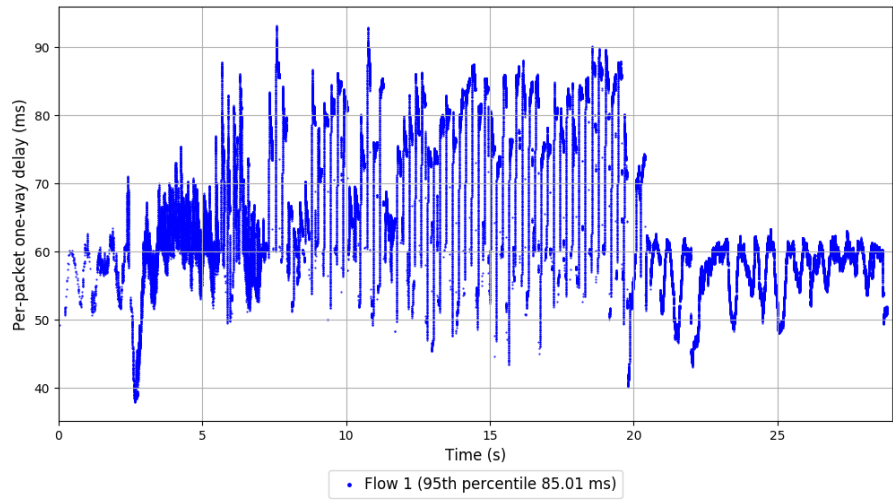
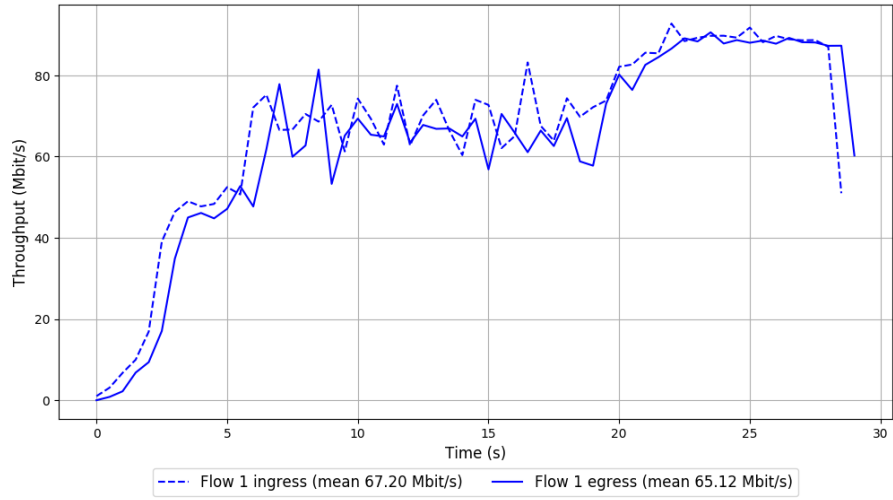


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-12-11 02:49:47
End at: 2019-12-11 02:50:17
Local clock offset: -8.124 ms
Remote clock offset: -3.132 ms

Below is generated by plot.py at 2019-12-11 05:04:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 65.12 Mbit/s
95th percentile per-packet one-way delay: 85.009 ms
Loss rate: 3.09%
-- Flow 1:
Average throughput: 65.12 Mbit/s
95th percentile per-packet one-way delay: 85.009 ms
Loss rate: 3.09%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-12-11 03:17:44

End at: 2019-12-11 03:18:14

Local clock offset: -8.19 ms

Remote clock offset: -2.361 ms

Below is generated by plot.py at 2019-12-11 05:04:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.90 Mbit/s

95th percentile per-packet one-way delay: 70.621 ms

Loss rate: 9.41%

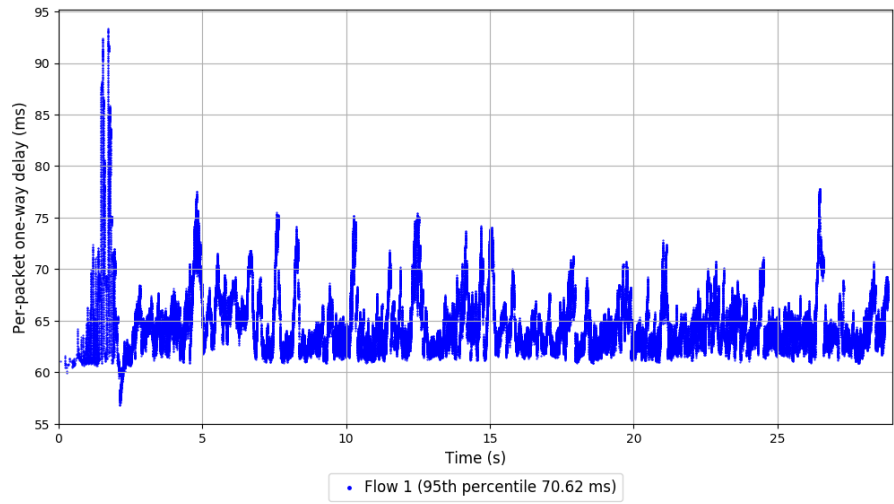
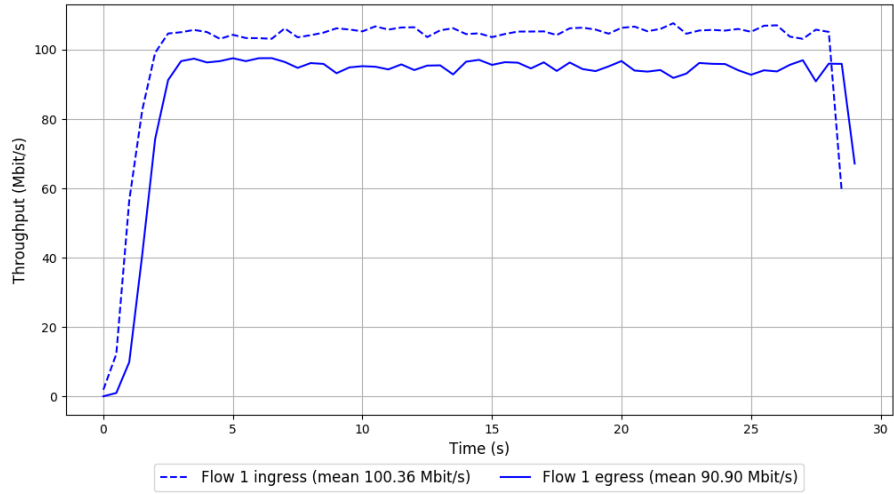
-- Flow 1:

Average throughput: 90.90 Mbit/s

95th percentile per-packet one-way delay: 70.621 ms

Loss rate: 9.41%

Run 2: Report of Indigo-MusesC5 — Data Link

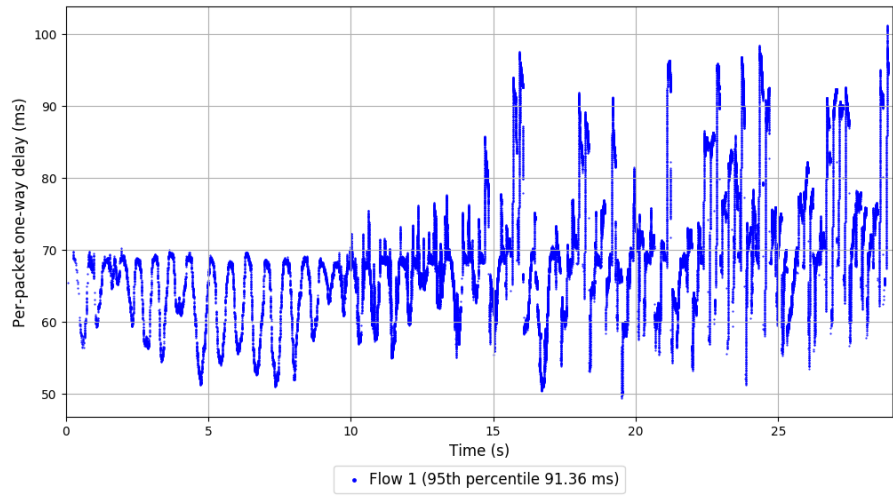
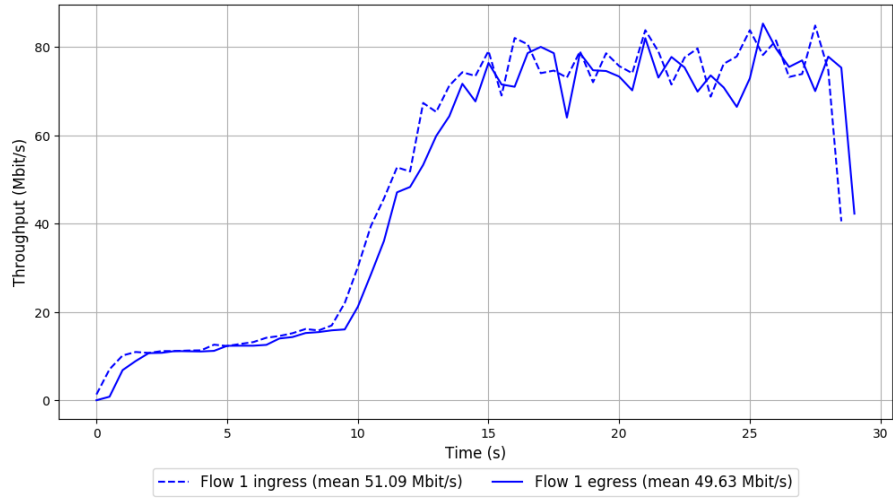


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-12-11 03:45:48
End at: 2019-12-11 03:46:19
Local clock offset: -7.986 ms
Remote clock offset: -8.469 ms

Below is generated by plot.py at 2019-12-11 05:04:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 49.63 Mbit/s
95th percentile per-packet one-way delay: 91.363 ms
Loss rate: 2.79%
-- Flow 1:
Average throughput: 49.63 Mbit/s
95th percentile per-packet one-way delay: 91.363 ms
Loss rate: 2.79%

Run 3: Report of Indigo-MusesC5 — Data Link

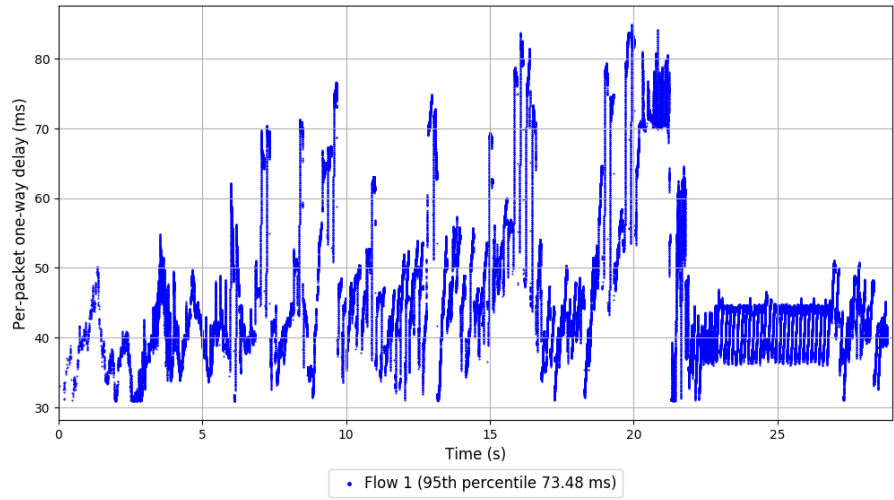
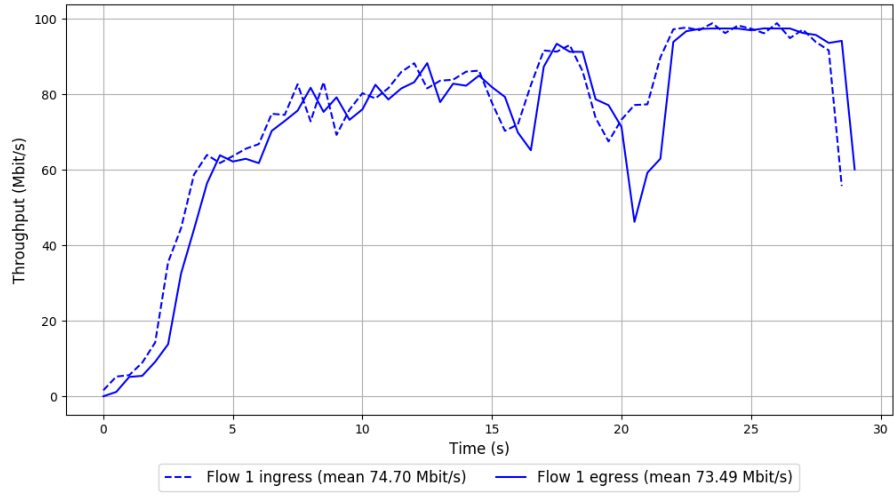


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-12-11 04:13:46
End at: 2019-12-11 04:14:16
Local clock offset: -8.172 ms
Remote clock offset: -3.852 ms

Below is generated by plot.py at 2019-12-11 05:04:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.49 Mbit/s
95th percentile per-packet one-way delay: 73.482 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 73.49 Mbit/s
95th percentile per-packet one-way delay: 73.482 ms
Loss rate: 1.64%

Run 4: Report of Indigo-MusesC5 — Data Link

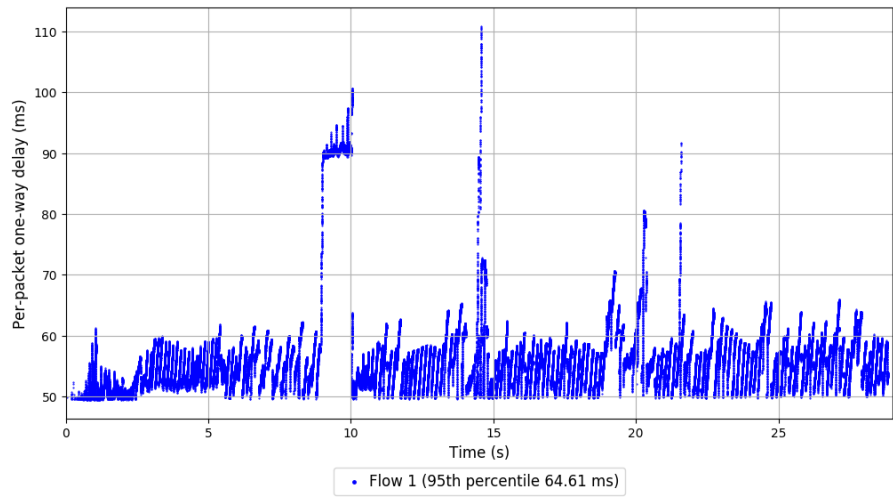
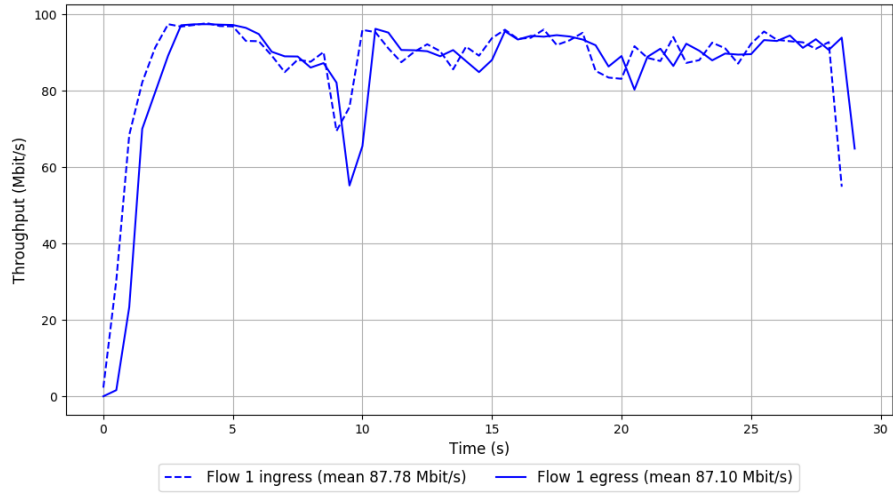


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-12-11 04:41:37
End at: 2019-12-11 04:42:07
Local clock offset: -7.24 ms
Remote clock offset: -10.48 ms

Below is generated by plot.py at 2019-12-11 05:04:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.10 Mbit/s
95th percentile per-packet one-way delay: 64.615 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 87.10 Mbit/s
95th percentile per-packet one-way delay: 64.615 ms
Loss rate: 0.77%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-12-11 02:52:06

End at: 2019-12-11 02:52:36

Local clock offset: -8.2 ms

Remote clock offset: -4.495 ms

Below is generated by plot.py at 2019-12-11 05:04:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.20 Mbit/s

95th percentile per-packet one-way delay: 59.750 ms

Loss rate: 1.50%

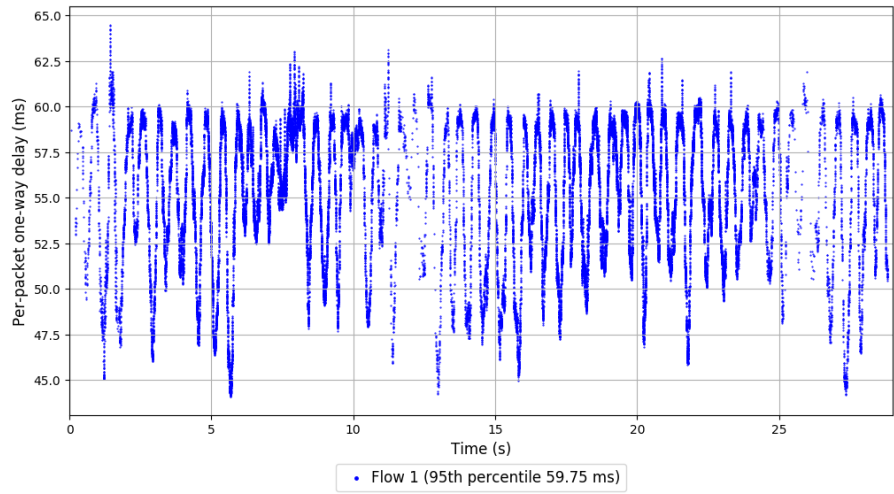
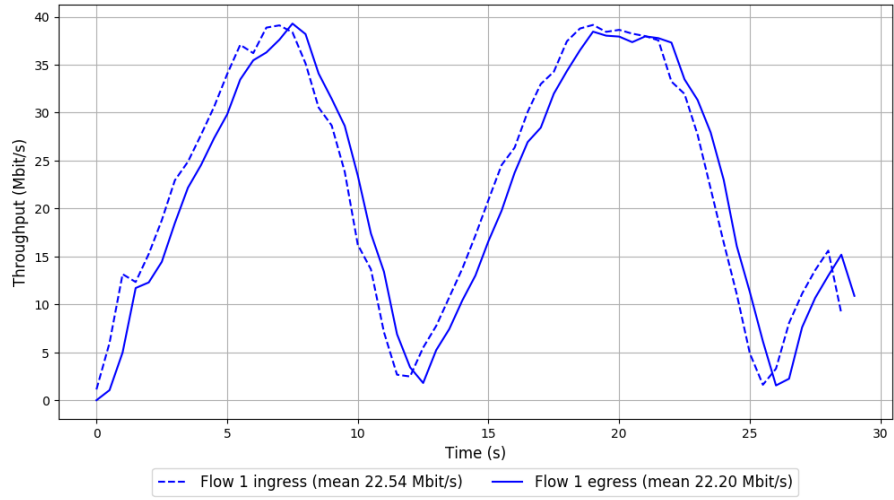
-- Flow 1:

Average throughput: 22.20 Mbit/s

95th percentile per-packet one-way delay: 59.750 ms

Loss rate: 1.50%

Run 1: Report of Indigo-MusesD — Data Link

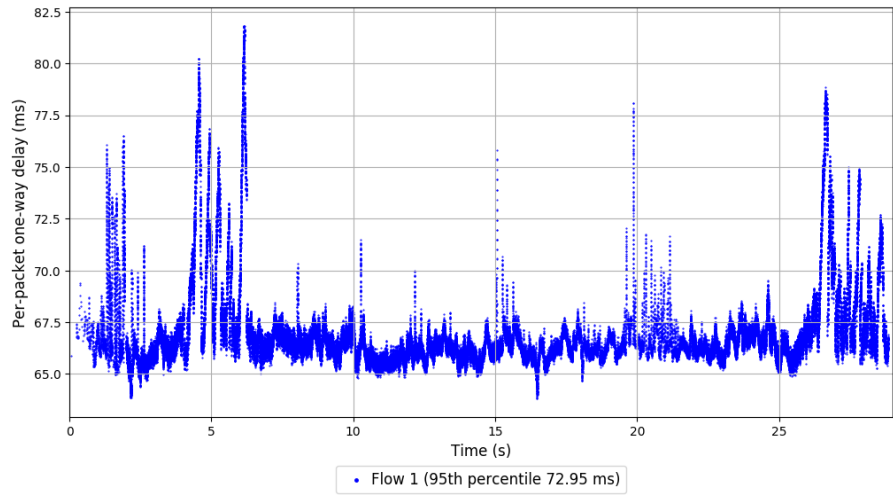
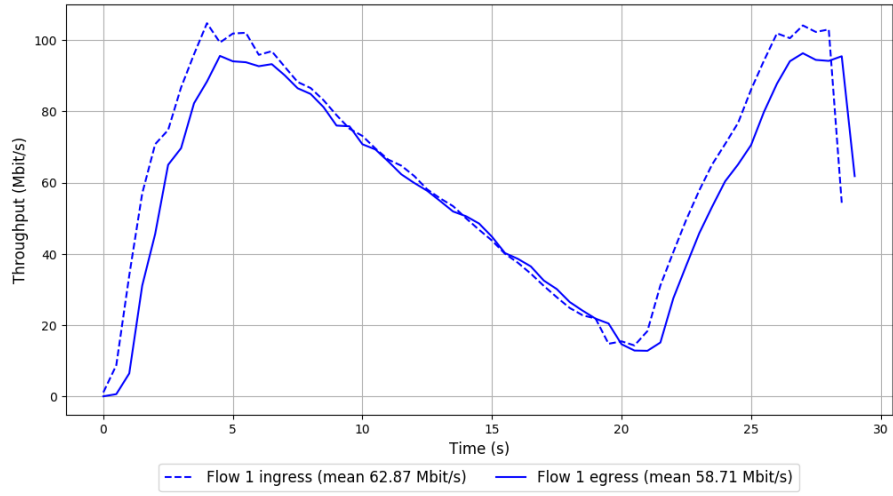


Run 2: Statistics of Indigo-MusesD

Start at: 2019-12-11 03:20:06
End at: 2019-12-11 03:20:36
Local clock offset: -7.679 ms
Remote clock offset: -6.568 ms

Below is generated by plot.py at 2019-12-11 05:05:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 58.71 Mbit/s
95th percentile per-packet one-way delay: 72.955 ms
Loss rate: 6.64%
-- Flow 1:
Average throughput: 58.71 Mbit/s
95th percentile per-packet one-way delay: 72.955 ms
Loss rate: 6.64%

Run 2: Report of Indigo-MusesD — Data Link

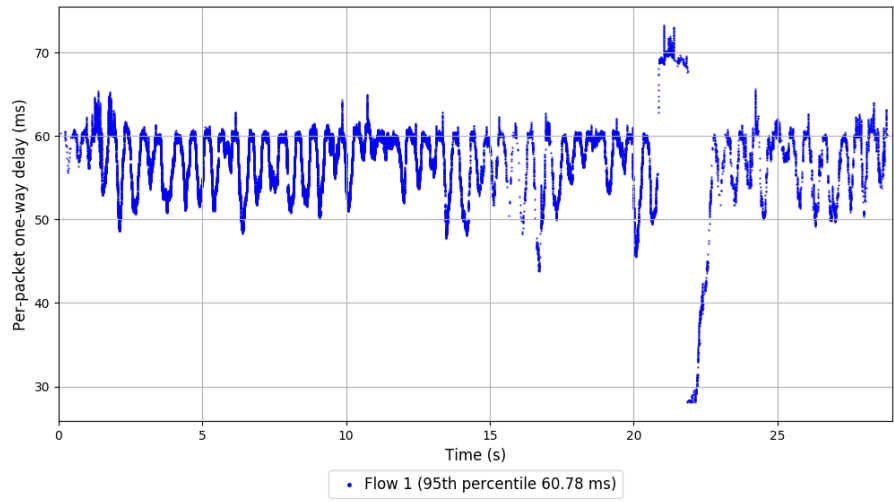
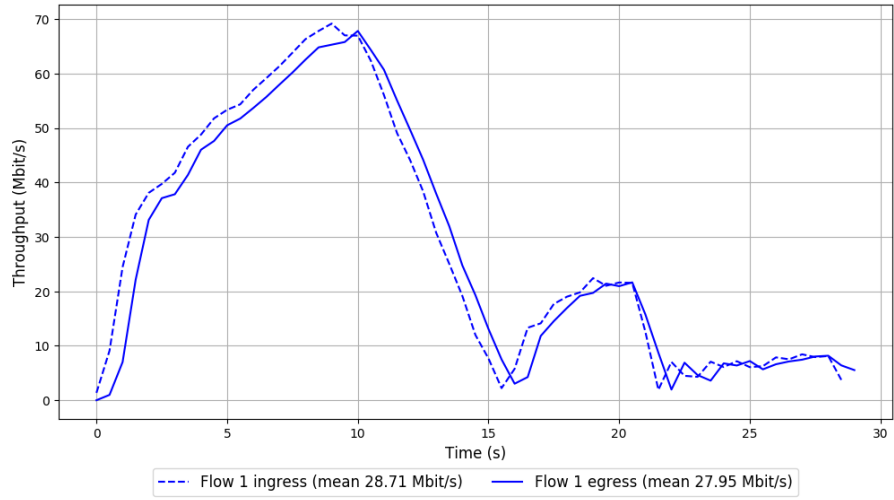


Run 3: Statistics of Indigo-MusesD

Start at: 2019-12-11 03:48:07
End at: 2019-12-11 03:48:37
Local clock offset: -7.81 ms
Remote clock offset: -6.986 ms

Below is generated by plot.py at 2019-12-11 05:05:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 27.95 Mbit/s
95th percentile per-packet one-way delay: 60.777 ms
Loss rate: 2.64%
-- Flow 1:
Average throughput: 27.95 Mbit/s
95th percentile per-packet one-way delay: 60.777 ms
Loss rate: 2.64%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-12-11 04:16:05

End at: 2019-12-11 04:16:35

Local clock offset: -7.328 ms

Remote clock offset: 4.364 ms

Below is generated by plot.py at 2019-12-11 05:05:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.13 Mbit/s

95th percentile per-packet one-way delay: 50.222 ms

Loss rate: 0.03%

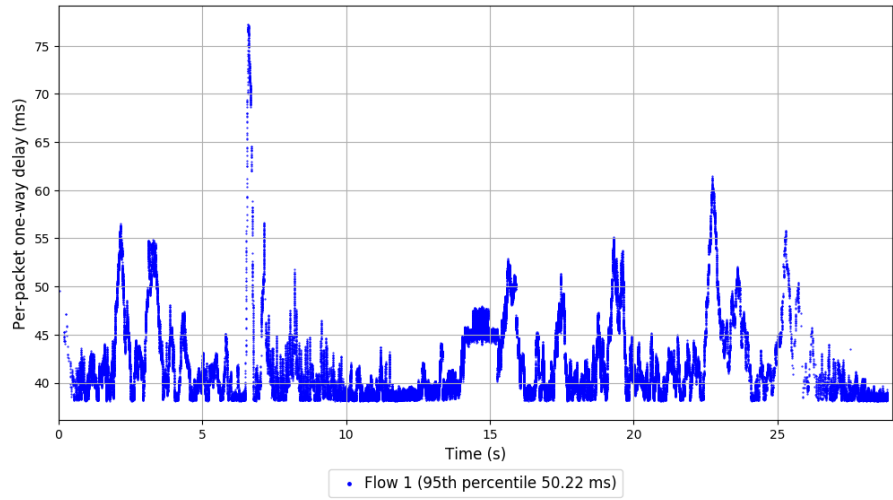
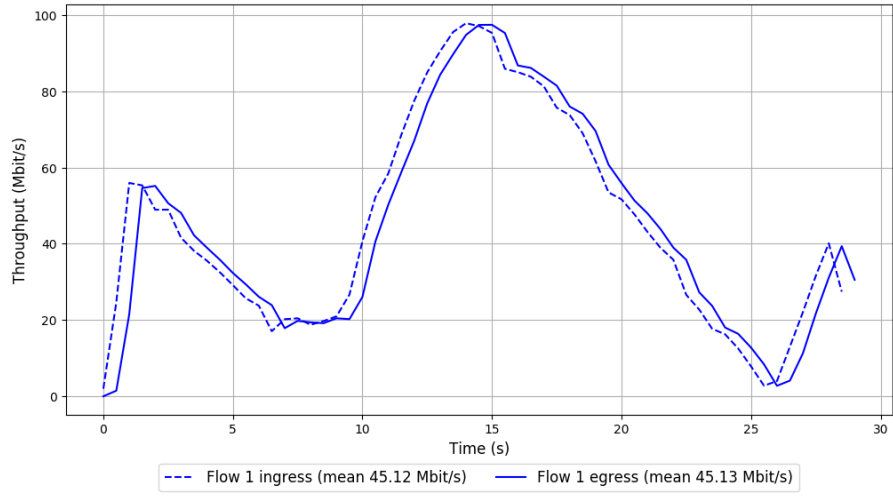
-- Flow 1:

Average throughput: 45.13 Mbit/s

95th percentile per-packet one-way delay: 50.222 ms

Loss rate: 0.03%

Run 4: Report of Indigo-MusesD — Data Link

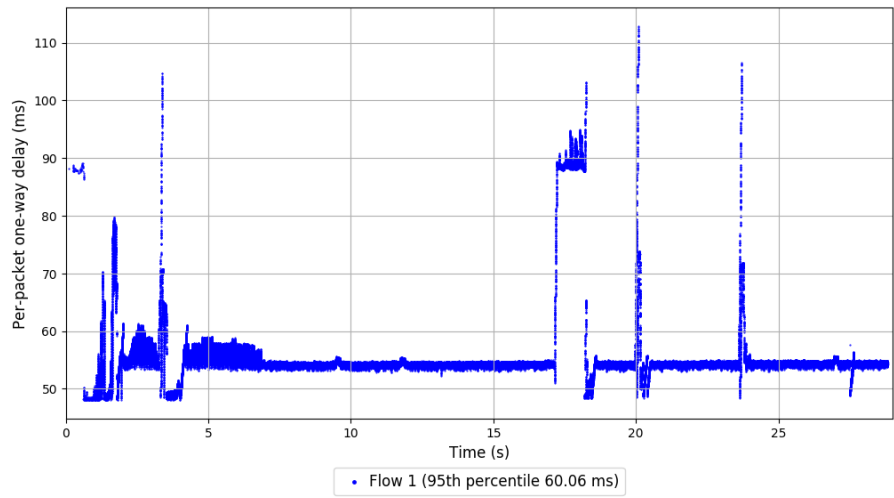
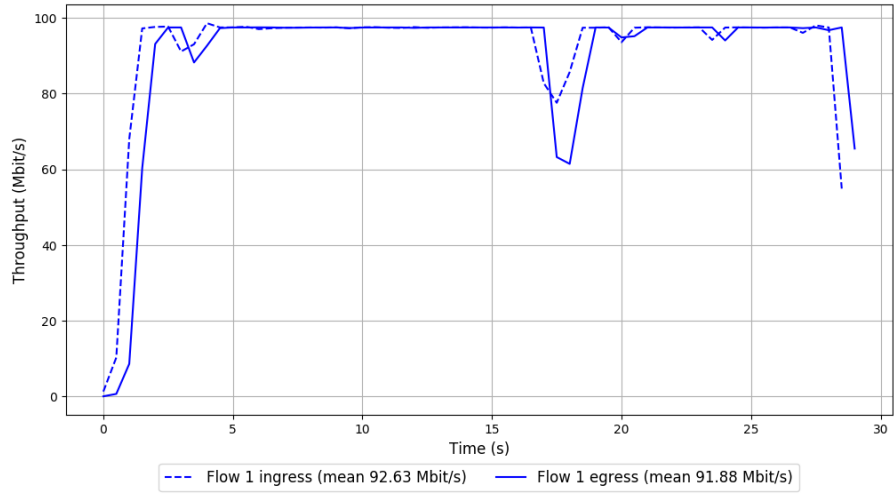


Run 5: Statistics of Indigo-MusesD

Start at: 2019-12-11 04:43:55
End at: 2019-12-11 04:44:25
Local clock offset: -7.731 ms
Remote clock offset: -12.207 ms

Below is generated by plot.py at 2019-12-11 05:05:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.88 Mbit/s
95th percentile per-packet one-way delay: 60.061 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 91.88 Mbit/s
95th percentile per-packet one-way delay: 60.061 ms
Loss rate: 0.92%

Run 5: Report of Indigo-MusesD — Data Link

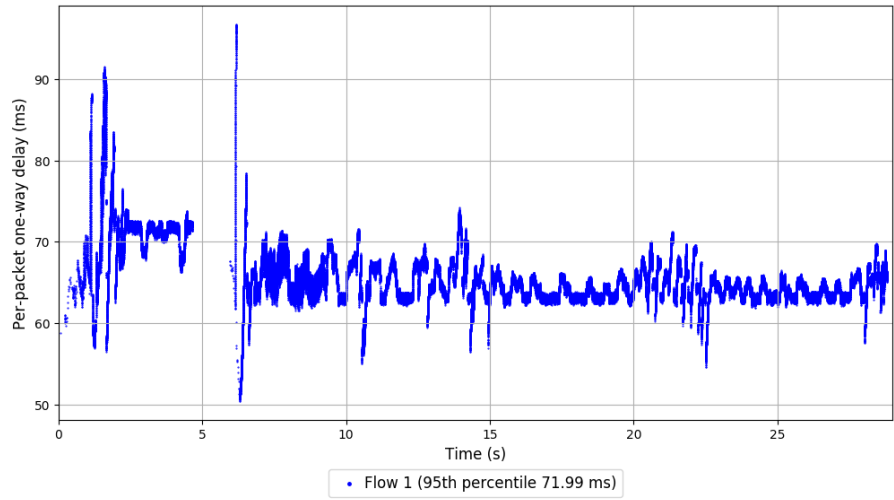
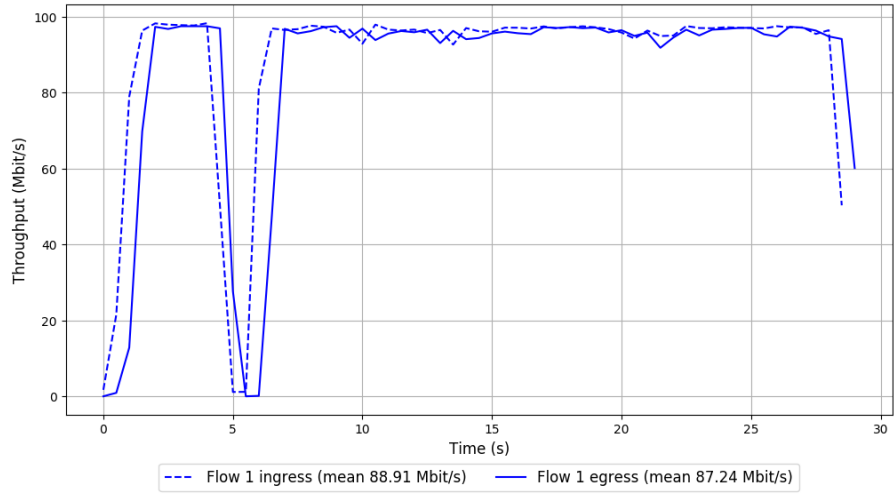


Run 1: Statistics of Indigo-MuseST

Start at: 2019-12-11 02:55:35
End at: 2019-12-11 02:56:05
Local clock offset: -8.602 ms
Remote clock offset: -5.804 ms

Below is generated by plot.py at 2019-12-11 05:05:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.24 Mbit/s
95th percentile per-packet one-way delay: 71.992 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 87.24 Mbit/s
95th percentile per-packet one-way delay: 71.992 ms
Loss rate: 1.93%

Run 1: Report of Indigo-MusesT — Data Link

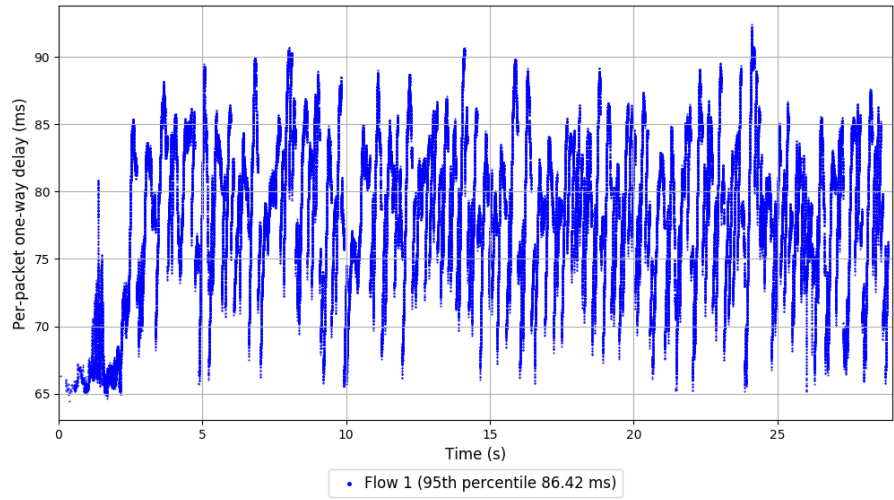
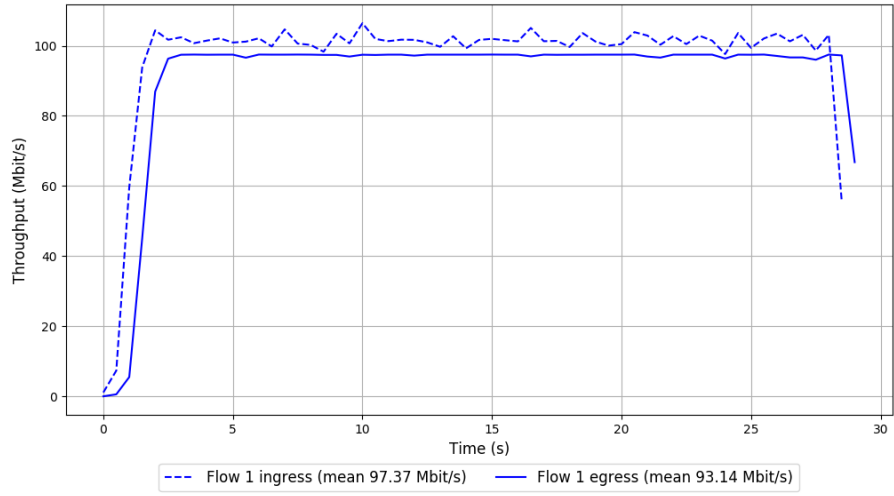


Run 2: Statistics of Indigo-MusesT

Start at: 2019-12-11 03:23:39
End at: 2019-12-11 03:24:09
Local clock offset: -8.007 ms
Remote clock offset: -8.871 ms

Below is generated by plot.py at 2019-12-11 05:05:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.14 Mbit/s
95th percentile per-packet one-way delay: 86.425 ms
Loss rate: 4.35%
-- Flow 1:
Average throughput: 93.14 Mbit/s
95th percentile per-packet one-way delay: 86.425 ms
Loss rate: 4.35%

Run 2: Report of Indigo-MusesT — Data Link

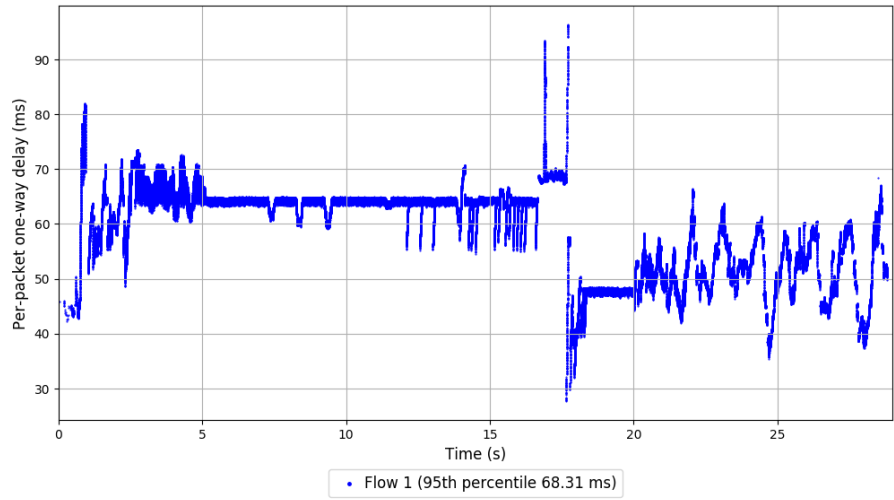
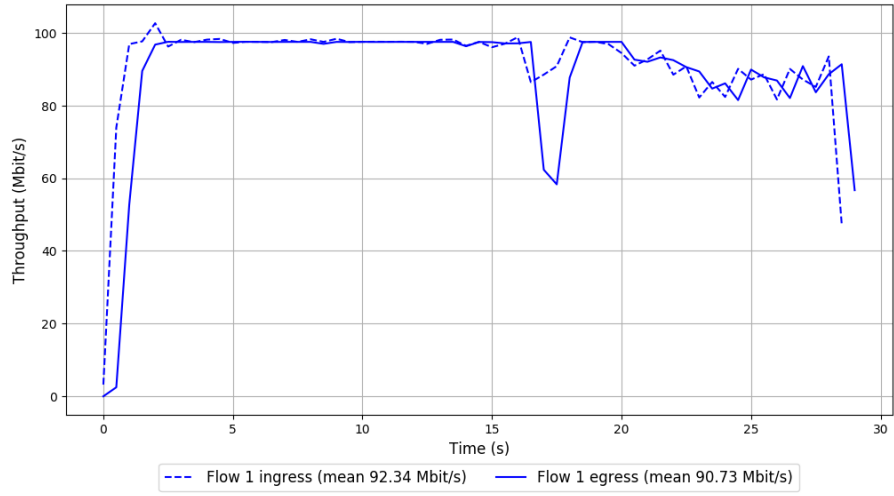


Run 3: Statistics of Indigo-MuseST

Start at: 2019-12-11 03:51:37
End at: 2019-12-11 03:52:07
Local clock offset: -7.661 ms
Remote clock offset: -7.532 ms

Below is generated by plot.py at 2019-12-11 05:05:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.73 Mbit/s
95th percentile per-packet one-way delay: 68.311 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 90.73 Mbit/s
95th percentile per-packet one-way delay: 68.311 ms
Loss rate: 1.72%

Run 3: Report of Indigo-MusesT — Data Link

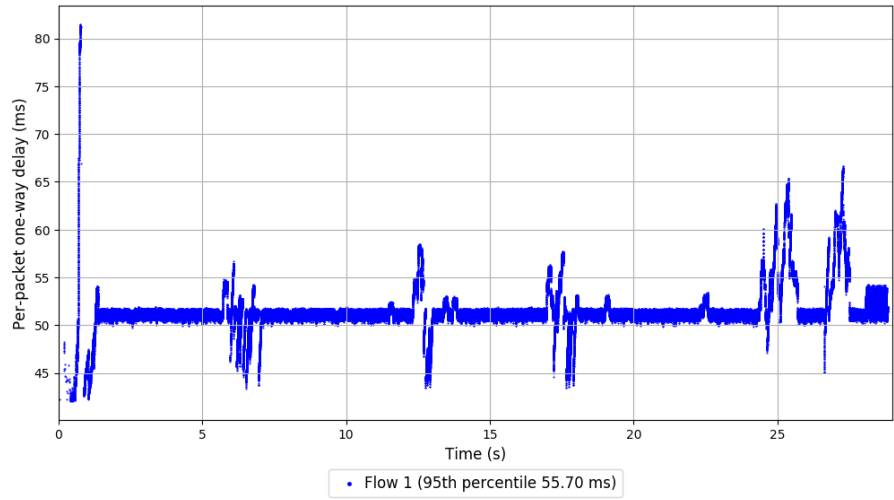
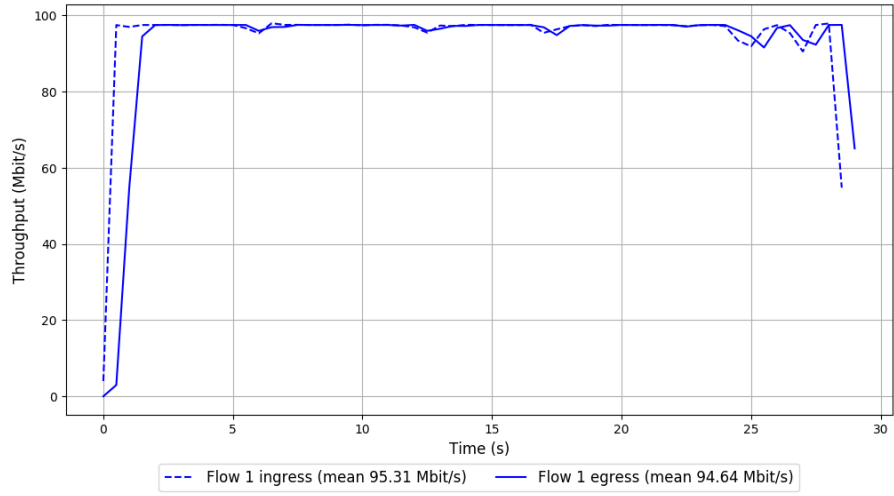


Run 4: Statistics of Indigo-MuseST

Start at: 2019-12-11 04:19:36
End at: 2019-12-11 04:20:06
Local clock offset: -7.213 ms
Remote clock offset: 11.366 ms

Below is generated by plot.py at 2019-12-11 05:05:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.64 Mbit/s
95th percentile per-packet one-way delay: 55.702 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 94.64 Mbit/s
95th percentile per-packet one-way delay: 55.702 ms
Loss rate: 0.67%

Run 4: Report of Indigo-MusesT — Data Link

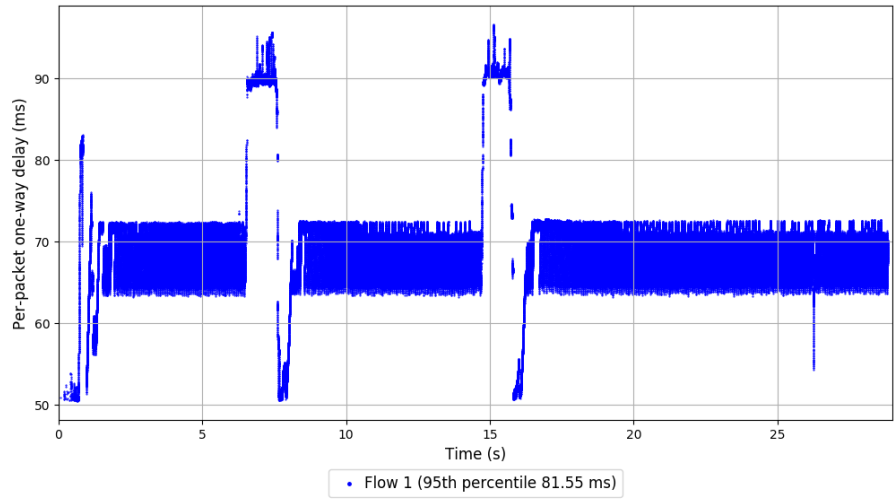
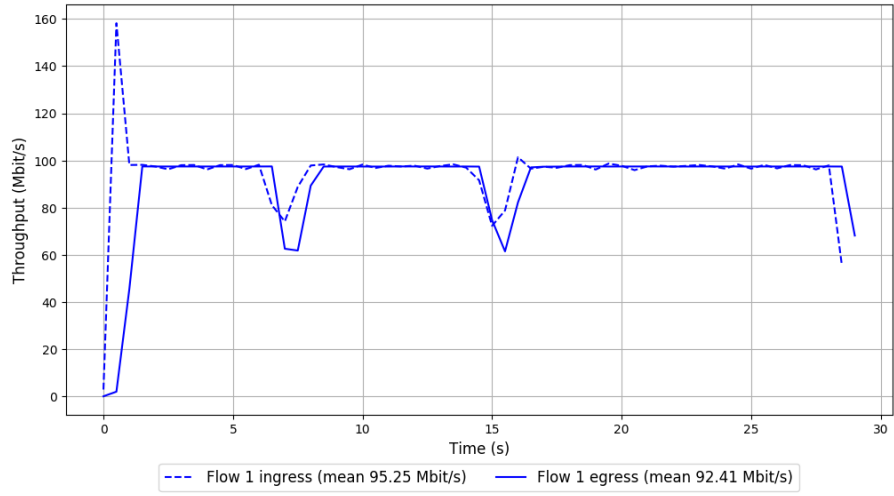


Run 5: Statistics of Indigo-MuseST

Start at: 2019-12-11 04:47:27
End at: 2019-12-11 04:47:57
Local clock offset: -7.592 ms
Remote clock offset: -14.67 ms

```
# Below is generated by plot.py at 2019-12-11 05:06:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.41 Mbit/s
95th percentile per-packet one-way delay: 81.545 ms
Loss rate: 2.93%
-- Flow 1:
Average throughput: 92.41 Mbit/s
95th percentile per-packet one-way delay: 81.545 ms
Loss rate: 2.93%
```

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-12-11 03:04:53

End at: 2019-12-11 03:05:23

Local clock offset: -7.548 ms

Remote clock offset: -3.79 ms

Below is generated by plot.py at 2019-12-11 05:06:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 68.766 ms

Loss rate: 1.82%

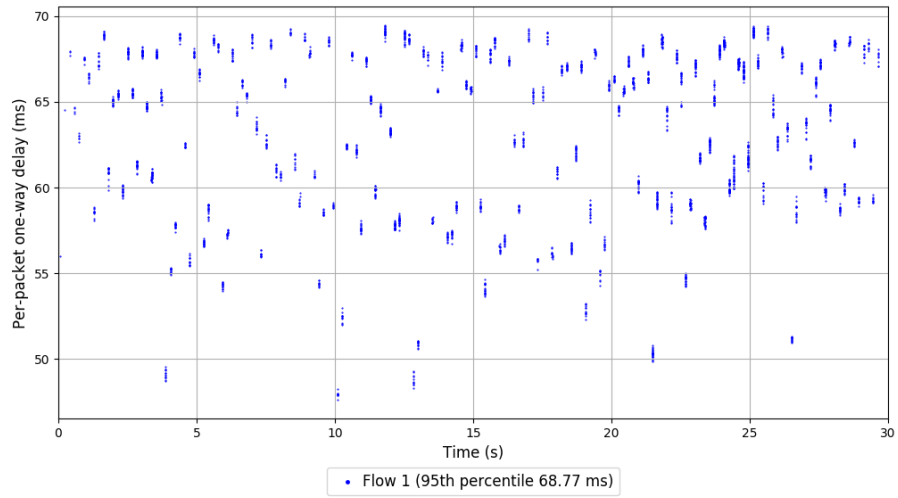
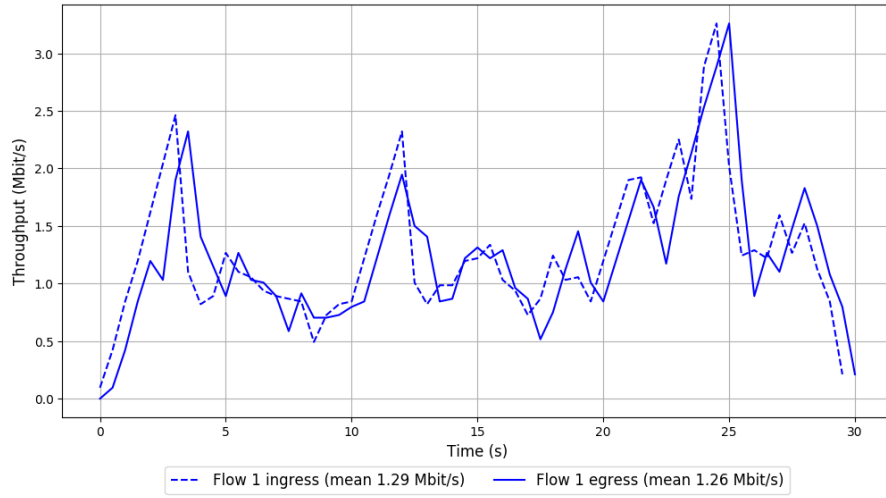
-- Flow 1:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 68.766 ms

Loss rate: 1.82%

Run 1: Report of LEDBAT — Data Link

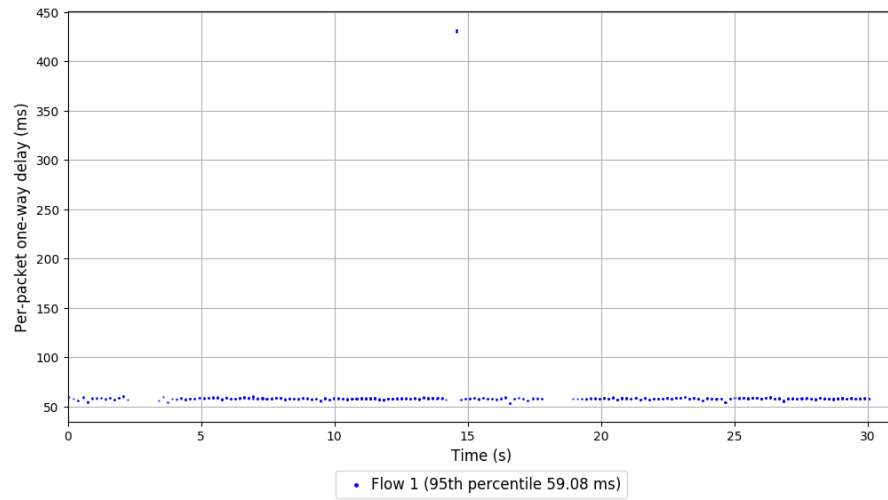
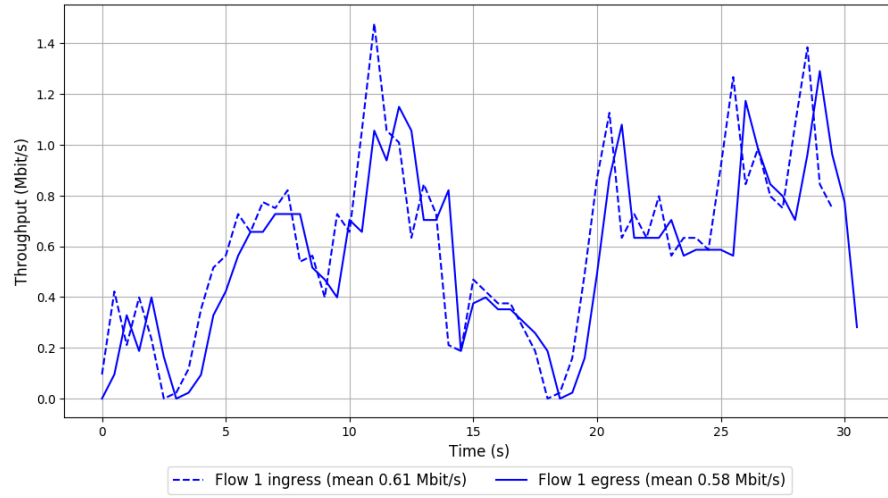


Run 2: Statistics of LEDBAT

Start at: 2019-12-11 03:33:00
End at: 2019-12-11 03:33:30
Local clock offset: -9.541 ms
Remote clock offset: -9.038 ms

Below is generated by plot.py at 2019-12-11 05:06:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 59.076 ms
Loss rate: 4.90%
-- Flow 1:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 59.076 ms
Loss rate: 4.90%

Run 2: Report of LEDBAT — Data Link

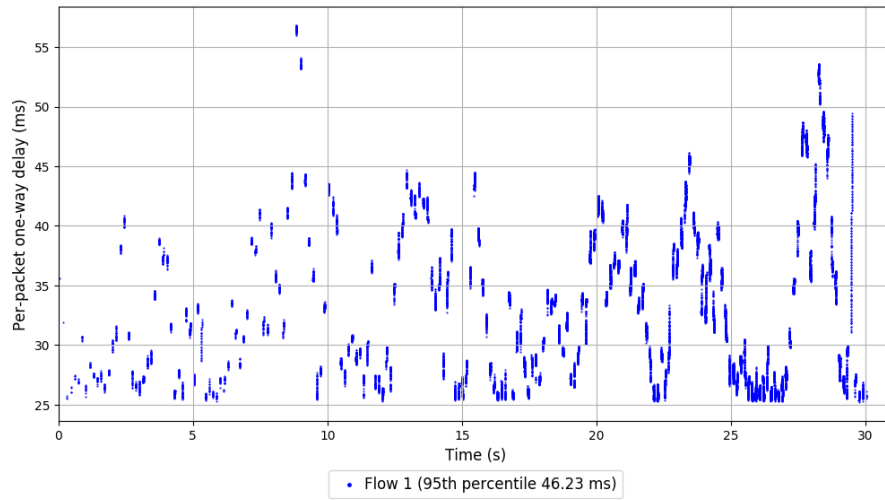
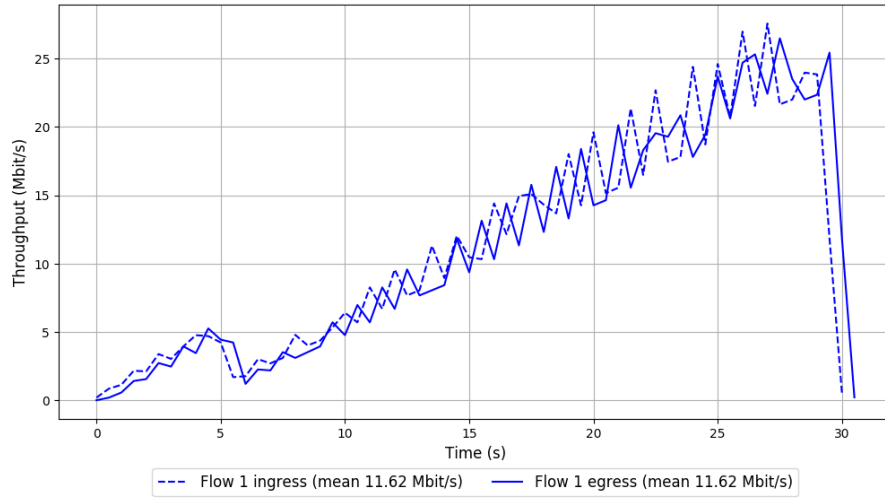


Run 3: Statistics of LEDBAT

Start at: 2019-12-11 04:00:53
End at: 2019-12-11 04:01:23
Local clock offset: -7.743 ms
Remote clock offset: -9.122 ms

Below is generated by plot.py at 2019-12-11 05:06:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.62 Mbit/s
95th percentile per-packet one-way delay: 46.229 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 11.62 Mbit/s
95th percentile per-packet one-way delay: 46.229 ms
Loss rate: 0.08%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-12-11 04:28:48

End at: 2019-12-11 04:29:18

Local clock offset: -7.221 ms

Remote clock offset: 6.789 ms

Below is generated by plot.py at 2019-12-11 05:06:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.53 Mbit/s

95th percentile per-packet one-way delay: 56.823 ms

Loss rate: 0.11%

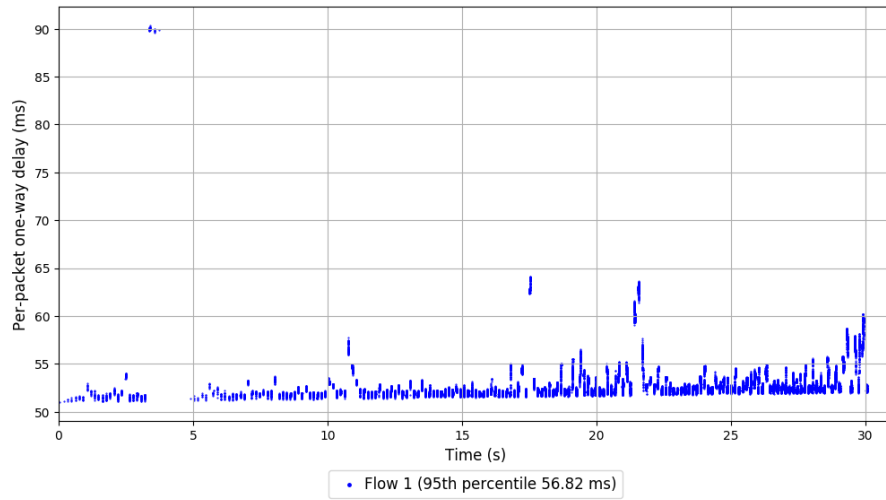
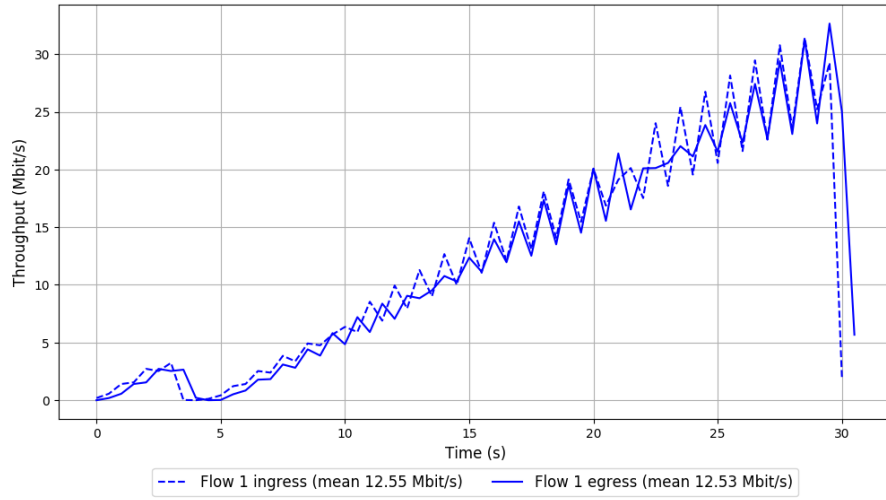
-- Flow 1:

Average throughput: 12.53 Mbit/s

95th percentile per-packet one-way delay: 56.823 ms

Loss rate: 0.11%

Run 4: Report of LEDBAT — Data Link

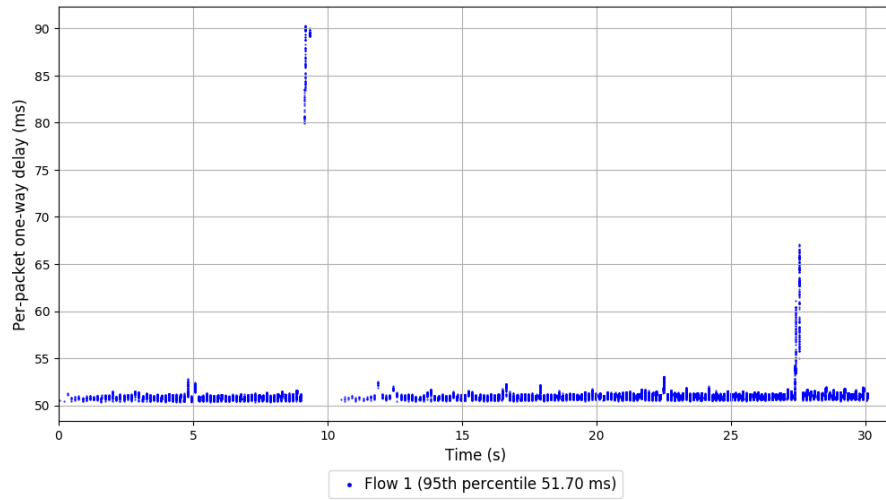
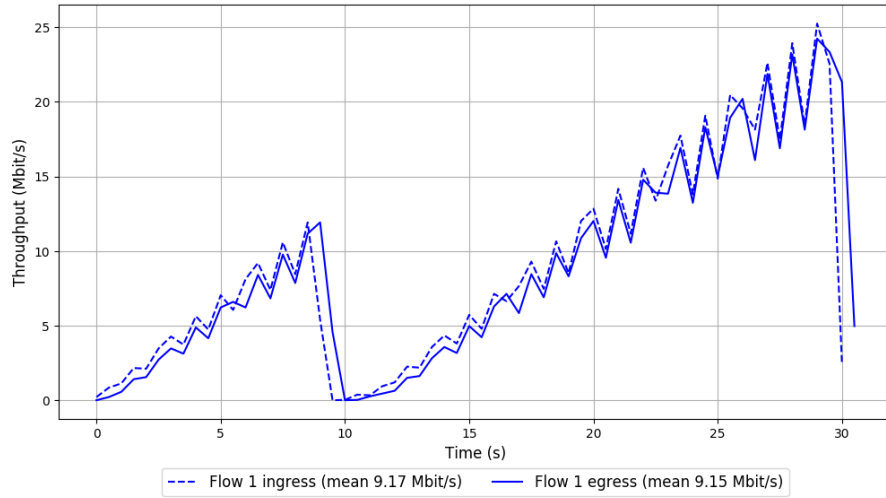


Run 5: Statistics of LEDBAT

Start at: 2019-12-11 04:56:42
End at: 2019-12-11 04:57:13
Local clock offset: -7.504 ms
Remote clock offset: -18.842 ms

Below is generated by plot.py at 2019-12-11 05:06:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.15 Mbit/s
95th percentile per-packet one-way delay: 51.700 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 9.15 Mbit/s
95th percentile per-packet one-way delay: 51.700 ms
Loss rate: 0.25%

Run 5: Report of LEDBAT — Data Link

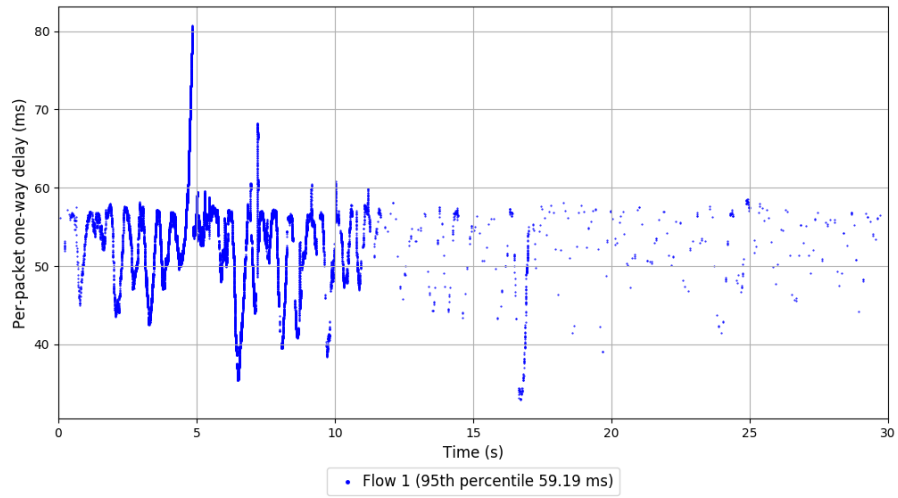
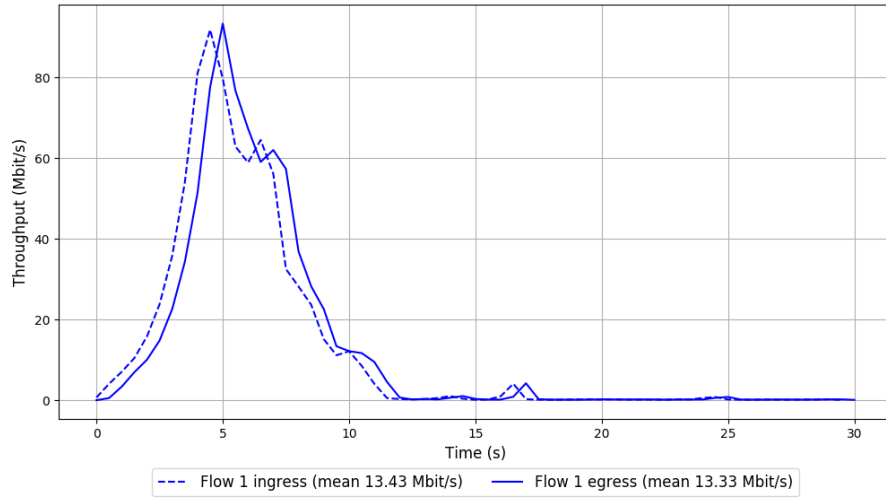


Run 1: Statistics of Muses_DecisionTree

Start at: 2019-12-11 02:48:38
End at: 2019-12-11 02:49:08
Local clock offset: -8.369 ms
Remote clock offset: -4.626 ms

Below is generated by plot.py at 2019-12-11 05:06:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.33 Mbit/s
95th percentile per-packet one-way delay: 59.190 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 13.33 Mbit/s
95th percentile per-packet one-way delay: 59.190 ms
Loss rate: 0.70%

Run 1: Report of Muses_DecisionTree — Data Link

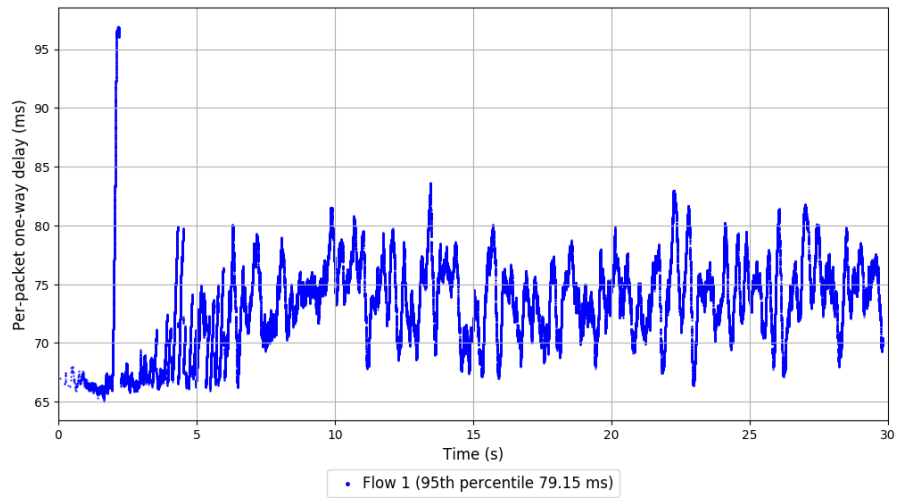
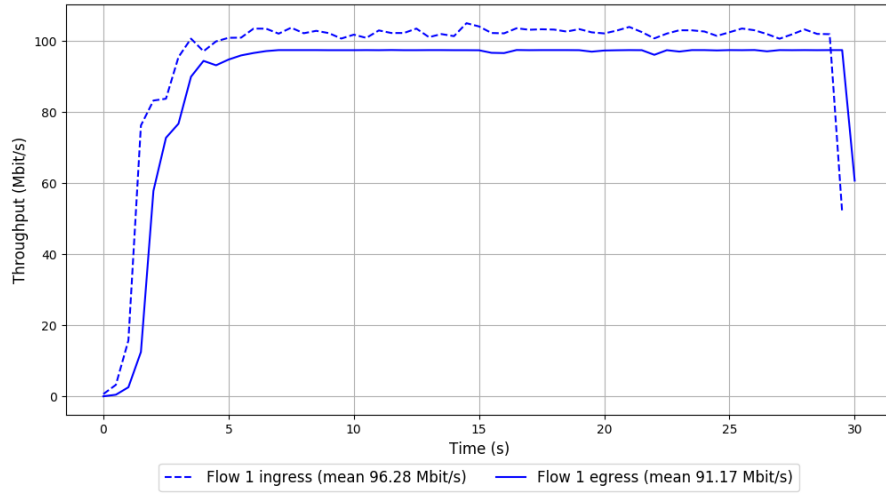


Run 2: Statistics of Muses_DecisionTree

Start at: 2019-12-11 03:16:31
End at: 2019-12-11 03:17:01
Local clock offset: -8.125 ms
Remote clock offset: -3.686 ms

Below is generated by plot.py at 2019-12-11 05:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.17 Mbit/s
95th percentile per-packet one-way delay: 79.150 ms
Loss rate: 5.33%
-- Flow 1:
Average throughput: 91.17 Mbit/s
95th percentile per-packet one-way delay: 79.150 ms
Loss rate: 5.33%

Run 2: Report of Muses_DecisionTree — Data Link

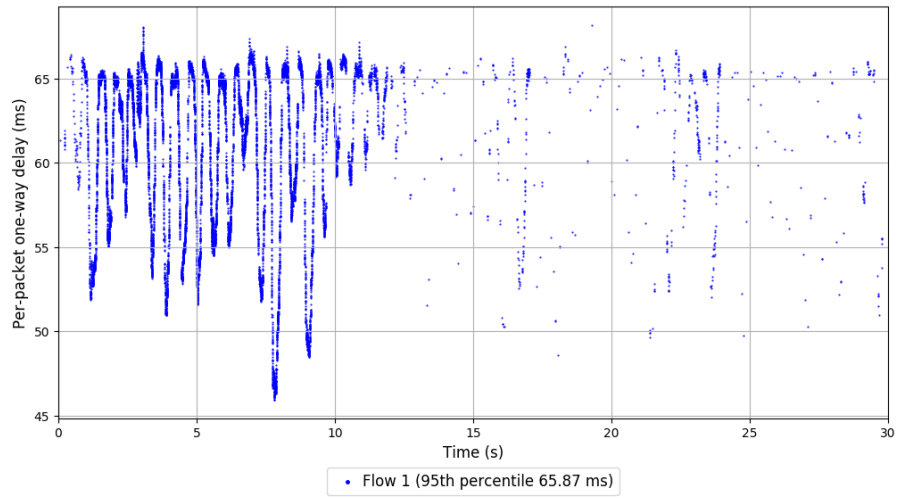
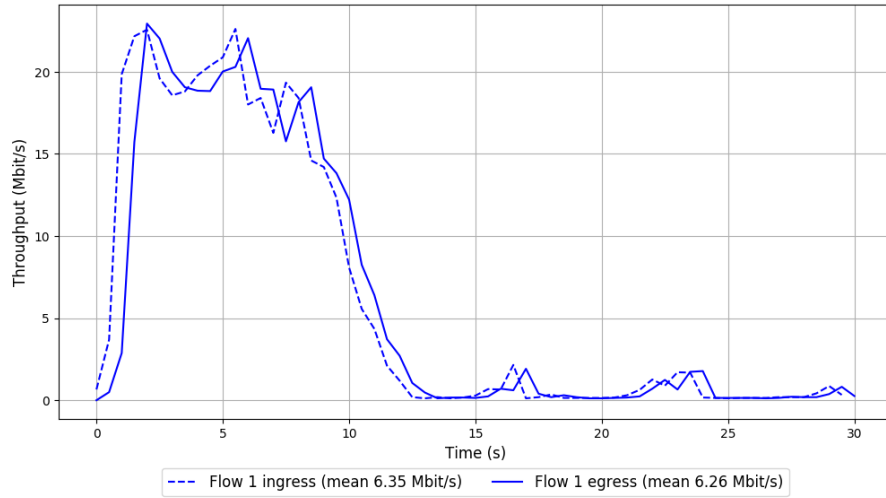


Run 3: Statistics of Muses_DecisionTree

Start at: 2019-12-11 03:44:39
End at: 2019-12-11 03:45:09
Local clock offset: -8.121 ms
Remote clock offset: -9.771 ms

Below is generated by plot.py at 2019-12-11 05:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.26 Mbit/s
95th percentile per-packet one-way delay: 65.874 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 6.26 Mbit/s
95th percentile per-packet one-way delay: 65.874 ms
Loss rate: 1.48%

Run 3: Report of Muses_DecisionTree — Data Link

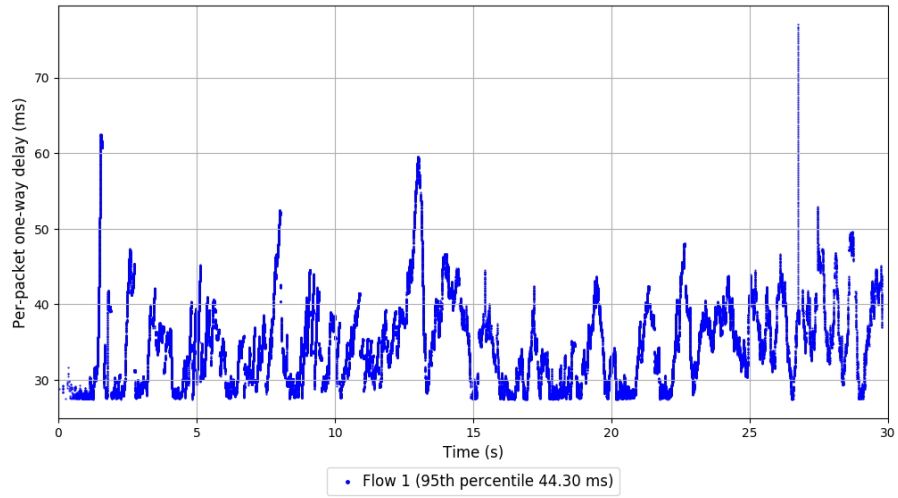
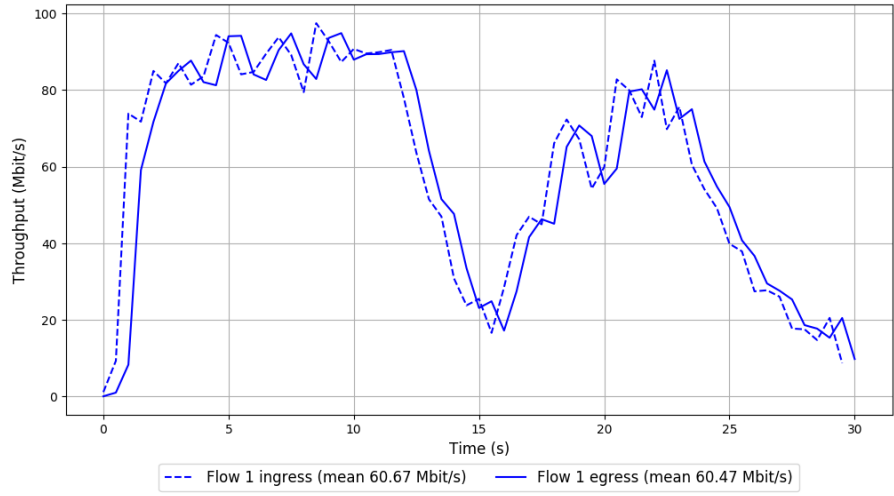


Run 4: Statistics of Muses_DecisionTree

Start at: 2019-12-11 04:12:36
End at: 2019-12-11 04:13:06
Local clock offset: -8.246 ms
Remote clock offset: -4.475 ms

Below is generated by plot.py at 2019-12-11 05:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 60.47 Mbit/s
95th percentile per-packet one-way delay: 44.295 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 60.47 Mbit/s
95th percentile per-packet one-way delay: 44.295 ms
Loss rate: 0.30%

Run 4: Report of Muses_DecisionTree — Data Link

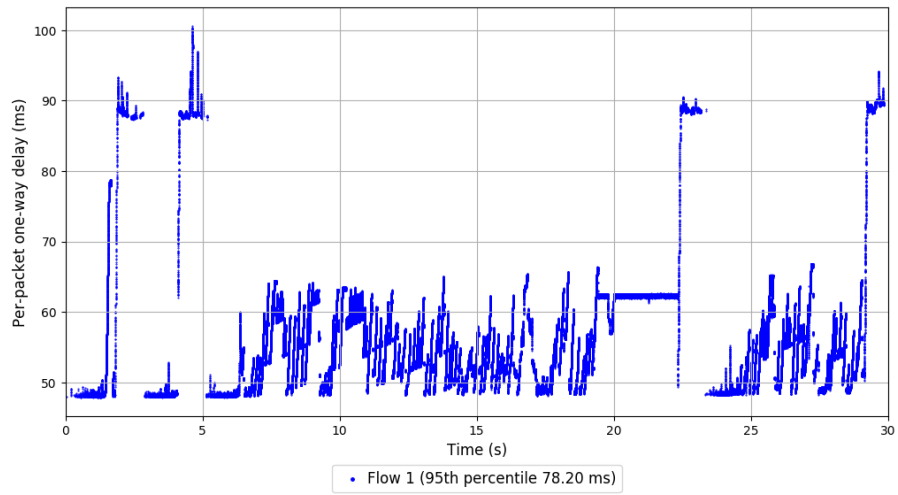
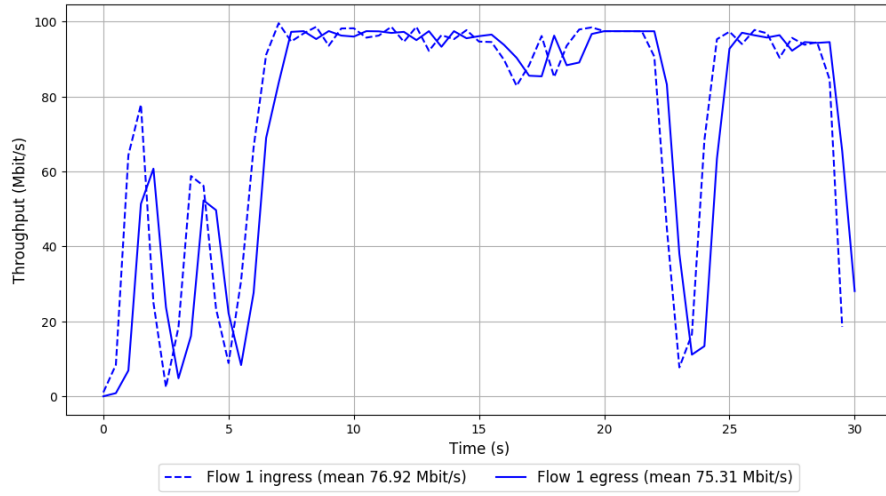


Run 5: Statistics of Muses_DecisionTree

Start at: 2019-12-11 04:40:26
End at: 2019-12-11 04:40:56
Local clock offset: -7.962 ms
Remote clock offset: -9.899 ms

Below is generated by plot.py at 2019-12-11 05:06:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.31 Mbit/s
95th percentile per-packet one-way delay: 78.198 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 75.31 Mbit/s
95th percentile per-packet one-way delay: 78.198 ms
Loss rate: 1.95%

Run 5: Report of Muses_DecisionTree — Data Link

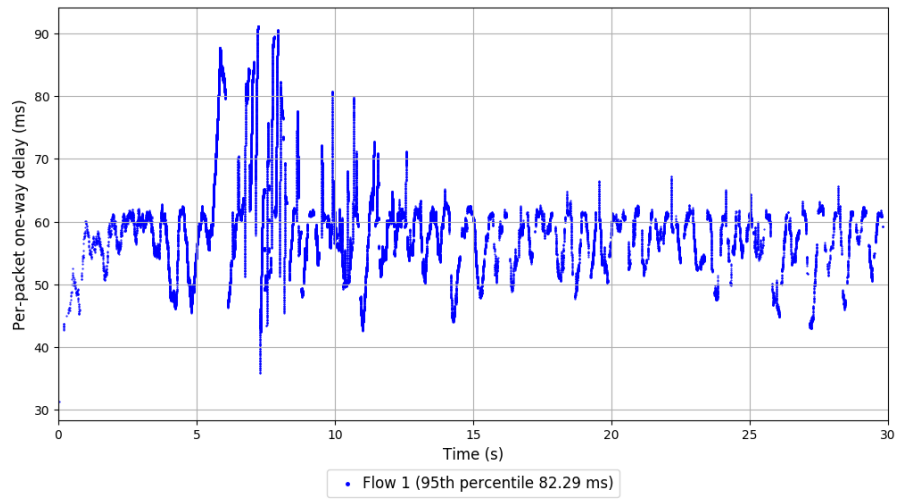
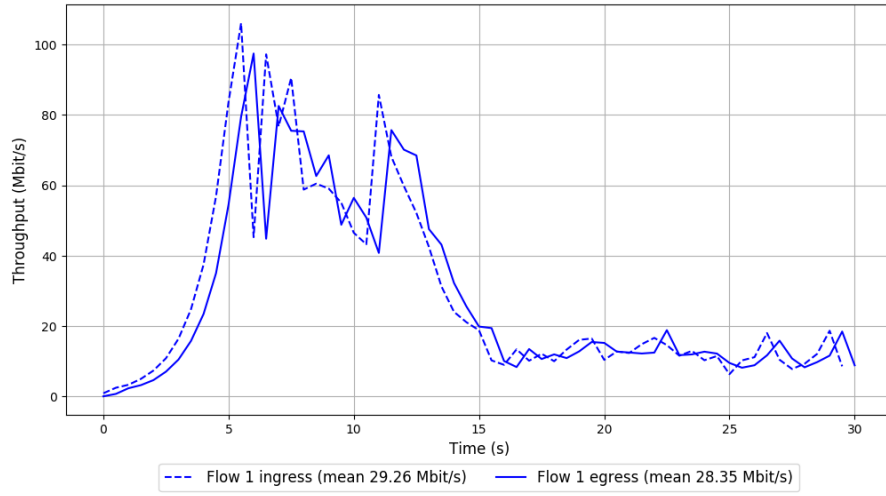


Run 1: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 02:56:48
End at: 2019-12-11 02:57:18
Local clock offset: -8.264 ms
Remote clock offset: -3.334 ms

Below is generated by plot.py at 2019-12-11 05:06:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 28.35 Mbit/s
95th percentile per-packet one-way delay: 82.291 ms
Loss rate: 3.01%
-- Flow 1:
Average throughput: 28.35 Mbit/s
95th percentile per-packet one-way delay: 82.291 ms
Loss rate: 3.01%

Run 1: Report of Muses_DecisionTreeH0 — Data Link

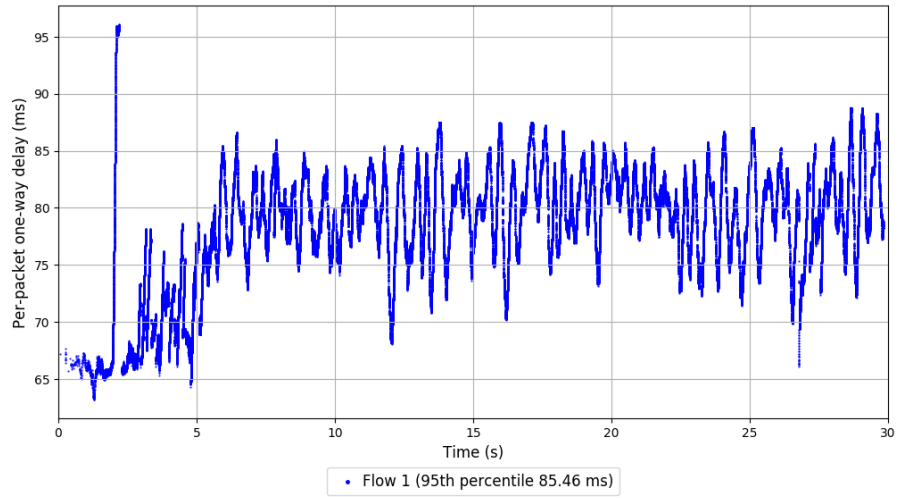
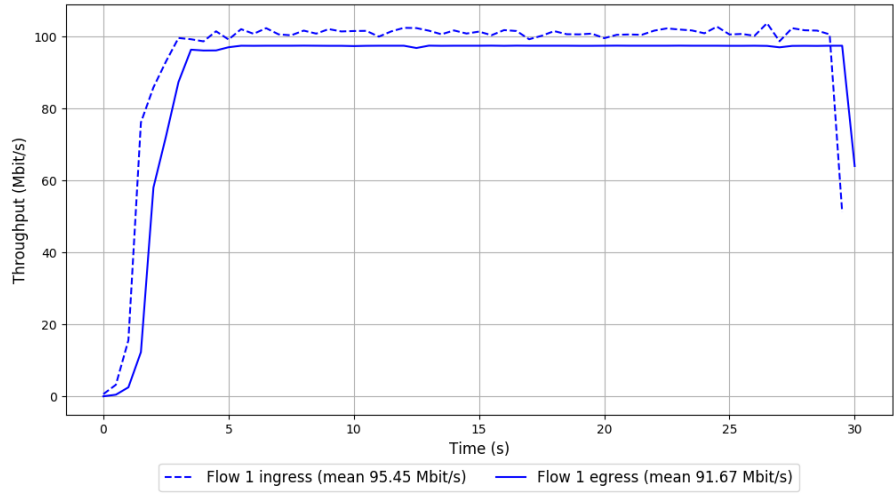


Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 03:24:51
End at: 2019-12-11 03:25:21
Local clock offset: -8.058 ms
Remote clock offset: -8.428 ms

Below is generated by plot.py at 2019-12-11 05:06:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.67 Mbit/s
95th percentile per-packet one-way delay: 85.464 ms
Loss rate: 3.95%
-- Flow 1:
Average throughput: 91.67 Mbit/s
95th percentile per-packet one-way delay: 85.464 ms
Loss rate: 3.95%

Run 2: Report of Muses_DecisionTreeH0 — Data Link

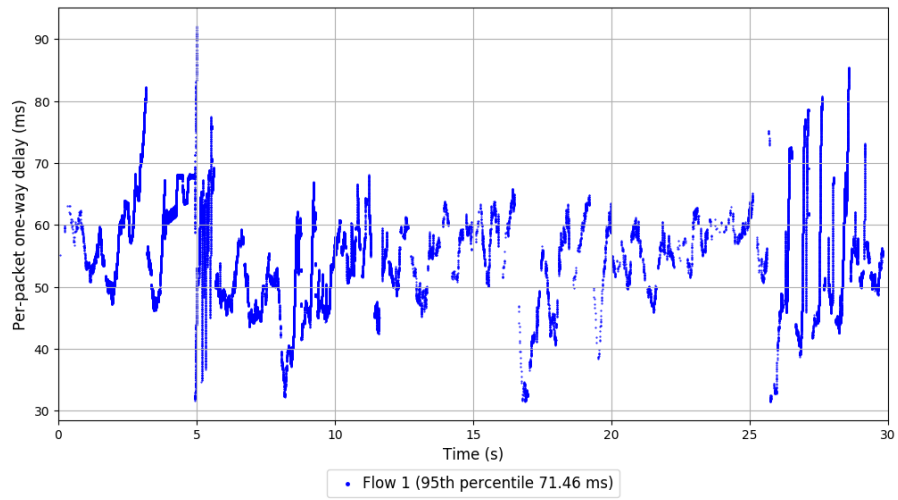
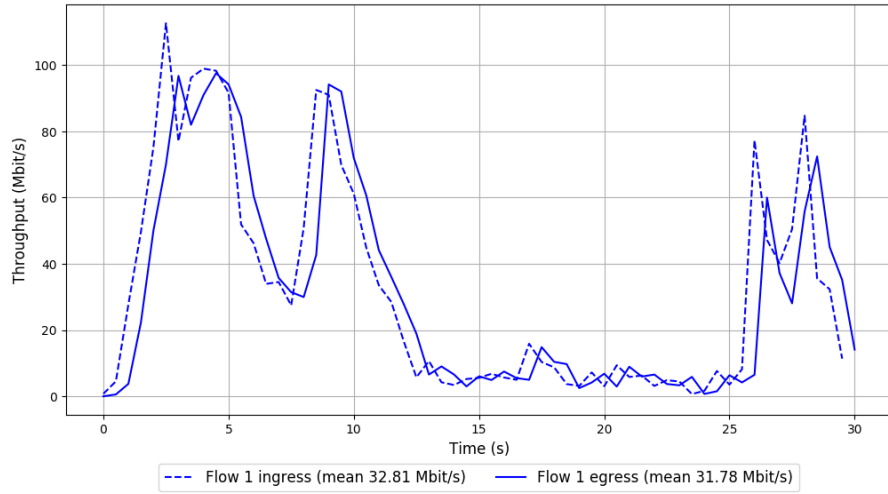


Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 03:52:49
End at: 2019-12-11 03:53:19
Local clock offset: -8.346 ms
Remote clock offset: -3.461 ms

Below is generated by plot.py at 2019-12-11 05:06:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 31.78 Mbit/s
95th percentile per-packet one-way delay: 71.461 ms
Loss rate: 3.15%
-- Flow 1:
Average throughput: 31.78 Mbit/s
95th percentile per-packet one-way delay: 71.461 ms
Loss rate: 3.15%

Run 3: Report of Muses_DecisionTreeH0 — Data Link

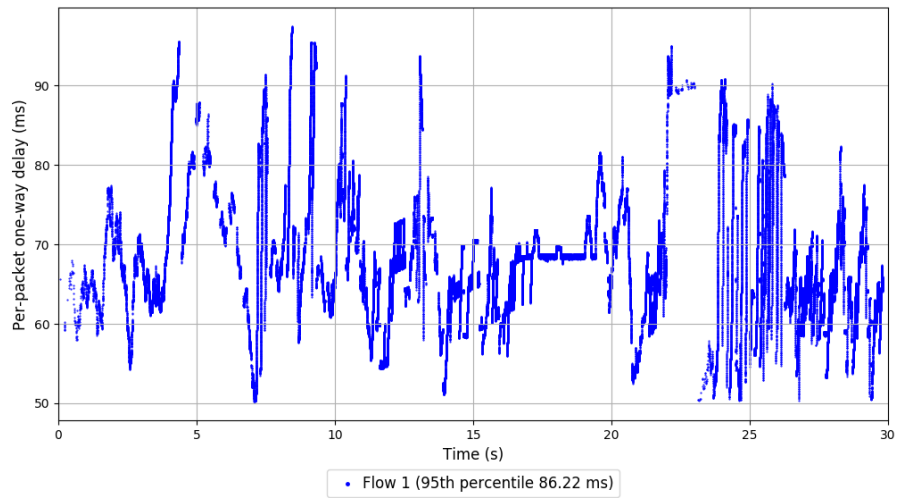
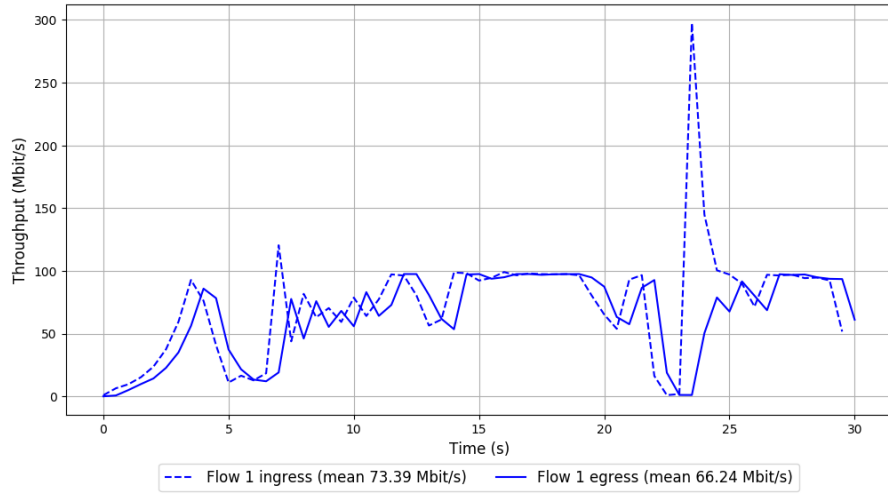


Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 04:20:47
End at: 2019-12-11 04:21:17
Local clock offset: -7.895 ms
Remote clock offset: 16.086 ms

Below is generated by plot.py at 2019-12-11 05:06:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 66.24 Mbit/s
95th percentile per-packet one-way delay: 86.225 ms
Loss rate: 9.77%
-- Flow 1:
Average throughput: 66.24 Mbit/s
95th percentile per-packet one-way delay: 86.225 ms
Loss rate: 9.77%

Run 4: Report of Muses_DecisionTreeH0 — Data Link

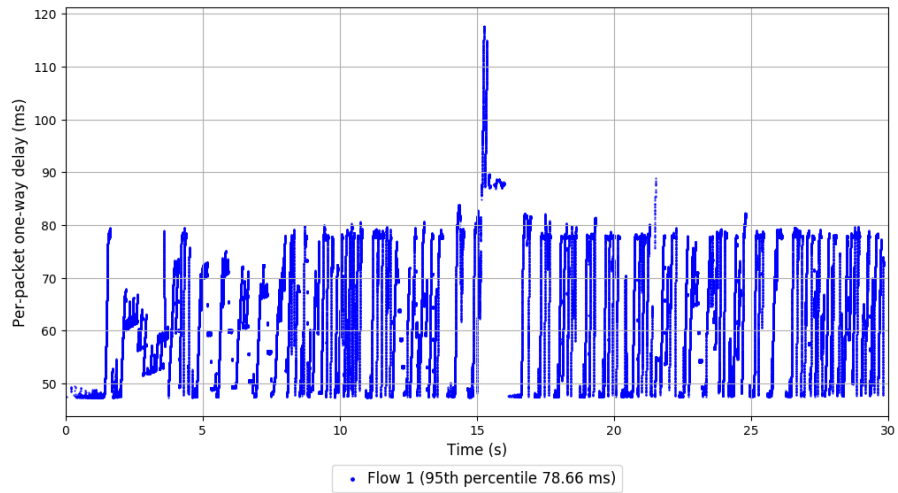
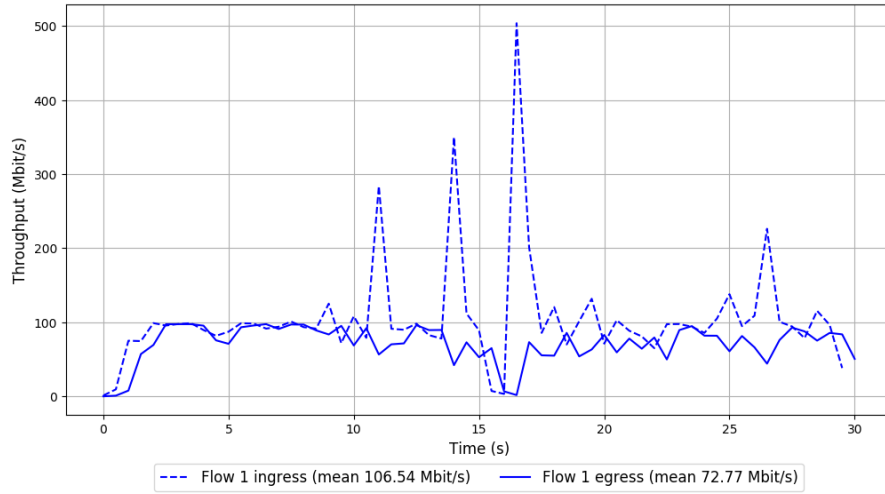


Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 04:48:38
End at: 2019-12-11 04:49:08
Local clock offset: -6.872 ms
Remote clock offset: -14.842 ms

Below is generated by plot.py at 2019-12-11 05:07:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.77 Mbit/s
95th percentile per-packet one-way delay: 78.663 ms
Loss rate: 31.64%
-- Flow 1:
Average throughput: 72.77 Mbit/s
95th percentile per-packet one-way delay: 78.663 ms
Loss rate: 31.64%

Run 5: Report of Muses_DecisionTreeH0 — Data Link

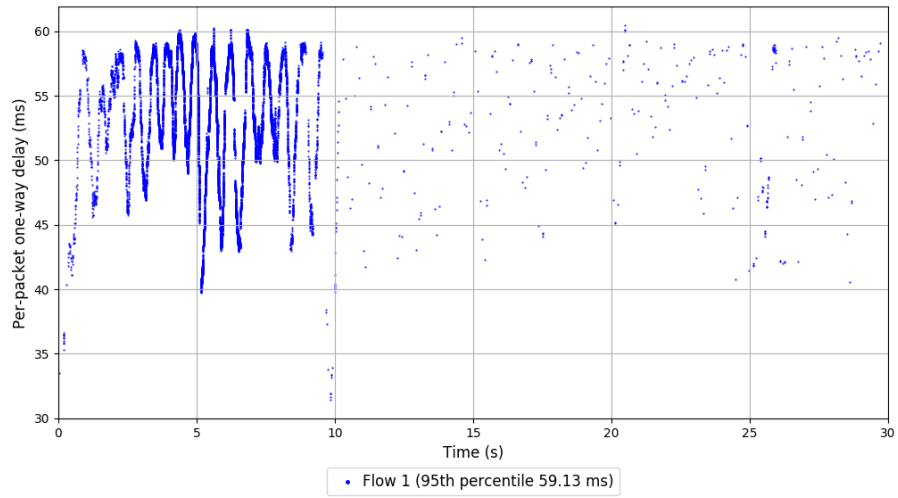
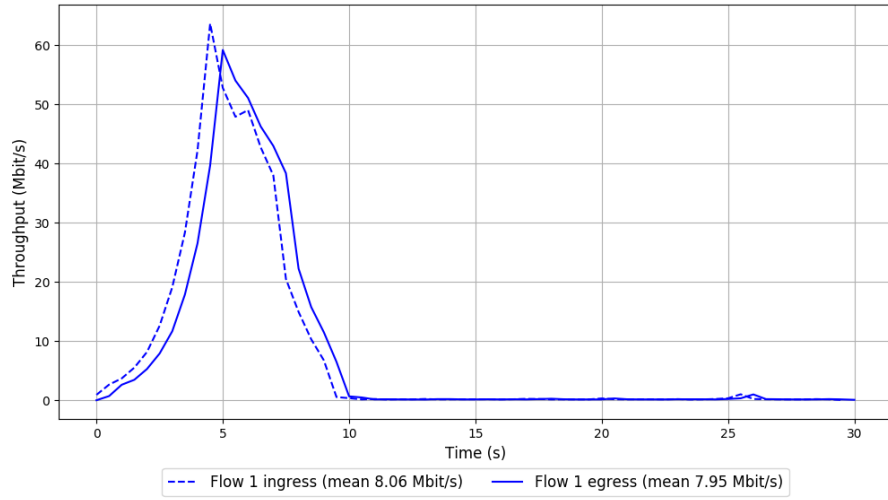


Run 1: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 02:54:27
End at: 2019-12-11 02:54:57
Local clock offset: -7.758 ms
Remote clock offset: -2.919 ms

Below is generated by plot.py at 2019-12-11 05:07:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.95 Mbit/s
95th percentile per-packet one-way delay: 59.132 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 7.95 Mbit/s
95th percentile per-packet one-way delay: 59.132 ms
Loss rate: 1.26%

Run 1: Report of Muses_DecisionTreeR0 — Data Link

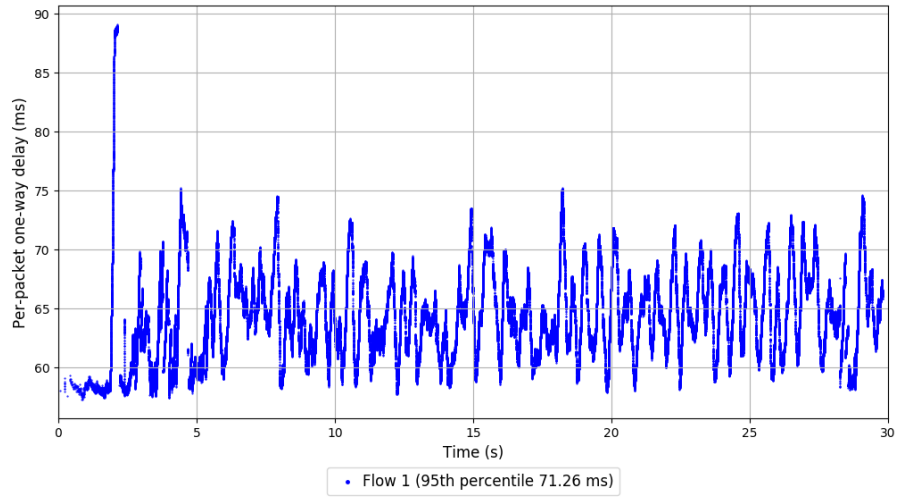
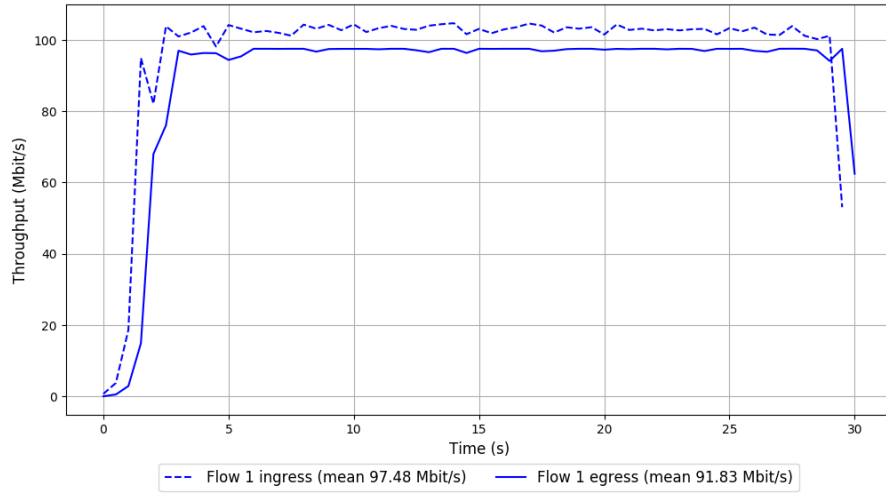


Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 03:22:26
End at: 2019-12-11 03:22:56
Local clock offset: -7.916 ms
Remote clock offset: -7.882 ms

Below is generated by plot.py at 2019-12-11 05:07:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.83 Mbit/s
95th percentile per-packet one-way delay: 71.258 ms
Loss rate: 5.78%
-- Flow 1:
Average throughput: 91.83 Mbit/s
95th percentile per-packet one-way delay: 71.258 ms
Loss rate: 5.78%

Run 2: Report of Muses_DecisionTreeR0 — Data Link

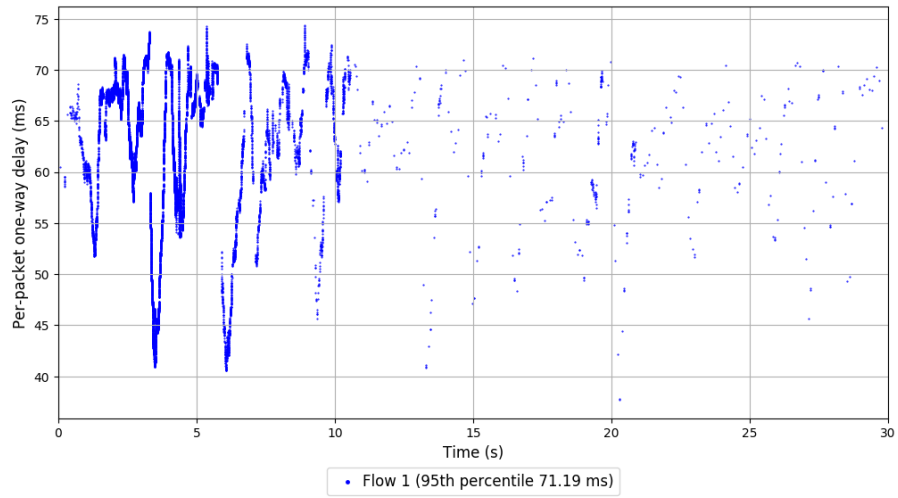
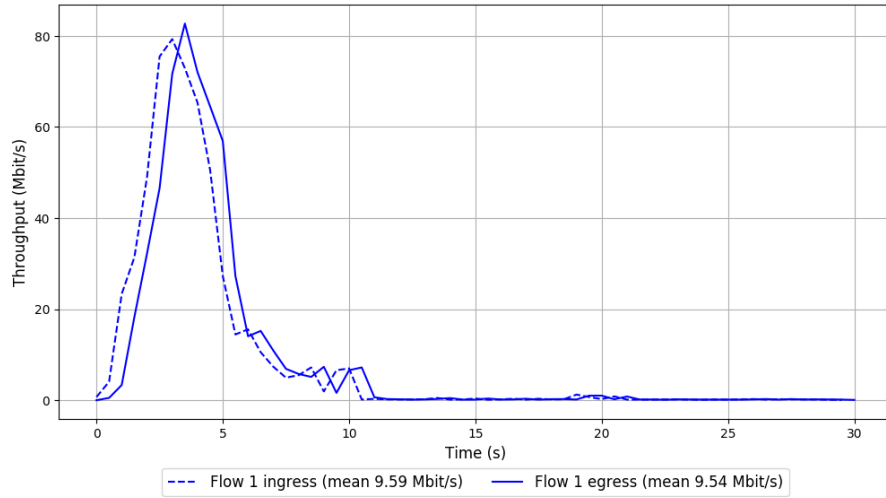


Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 03:50:28
End at: 2019-12-11 03:50:58
Local clock offset: -8.395 ms
Remote clock offset: -6.726 ms

Below is generated by plot.py at 2019-12-11 05:07:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.54 Mbit/s
95th percentile per-packet one-way delay: 71.189 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 9.54 Mbit/s
95th percentile per-packet one-way delay: 71.189 ms
Loss rate: 0.55%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 04:18:25

End at: 2019-12-11 04:18:55

Local clock offset: -7.318 ms

Remote clock offset: 1.033 ms

Below is generated by plot.py at 2019-12-11 05:07:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.58 Mbit/s

95th percentile per-packet one-way delay: 52.703 ms

Loss rate: 0.25%

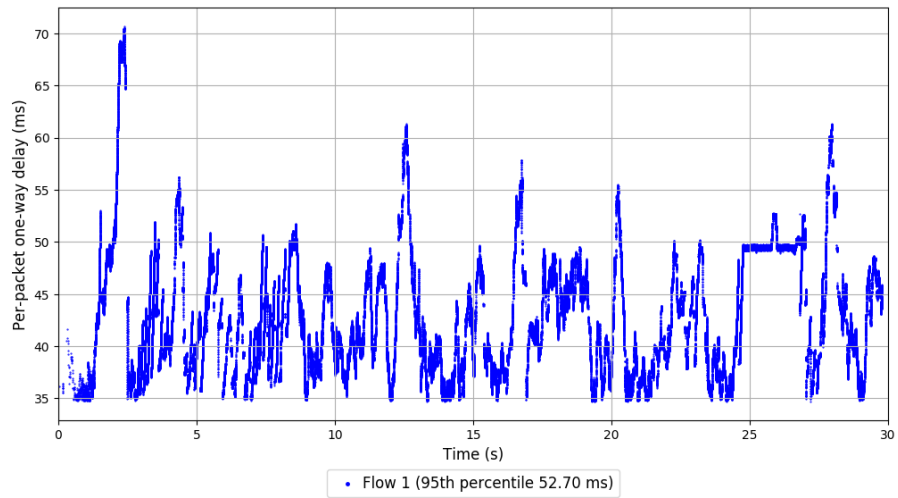
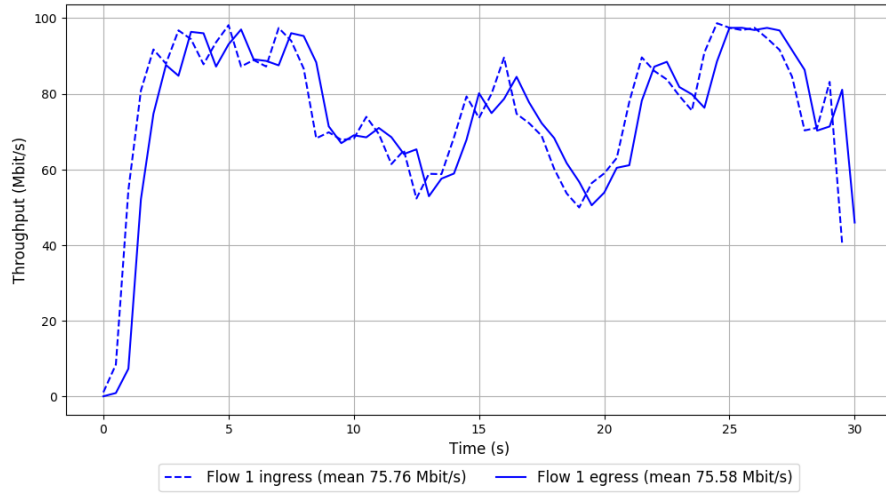
-- Flow 1:

Average throughput: 75.58 Mbit/s

95th percentile per-packet one-way delay: 52.703 ms

Loss rate: 0.25%

Run 4: Report of Muses_DecisionTreeR0 — Data Link

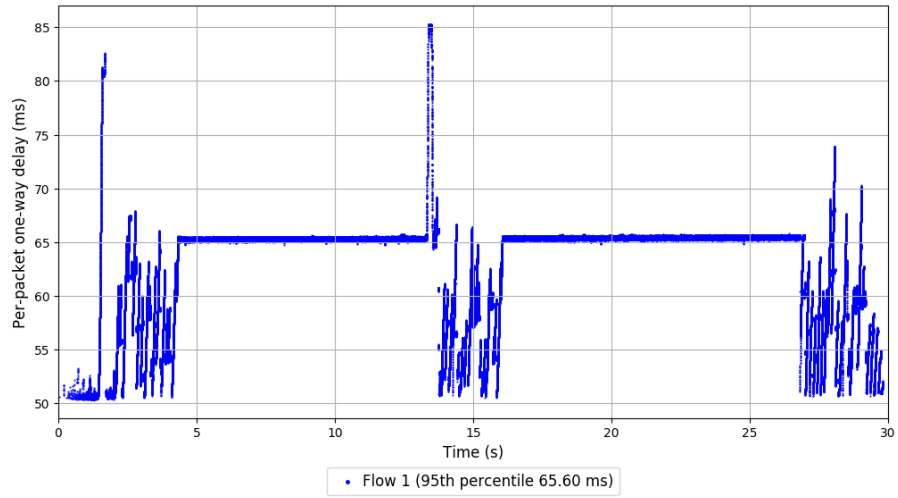
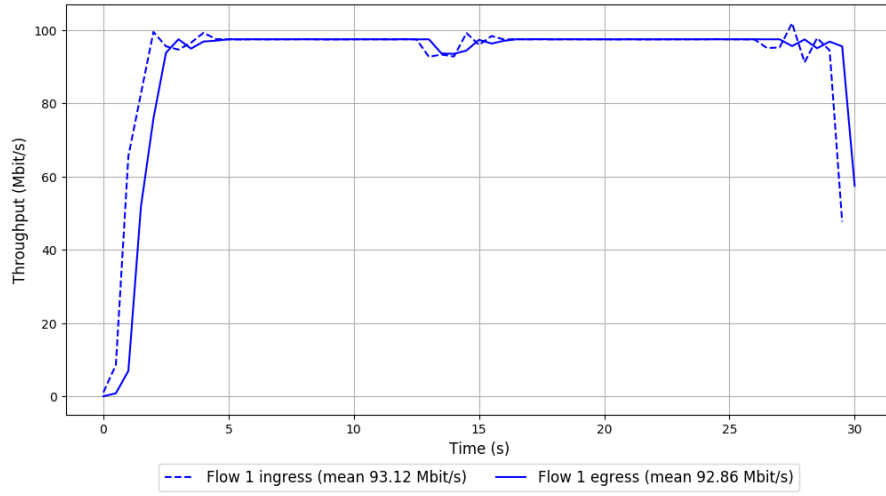


Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 04:46:16
End at: 2019-12-11 04:46:46
Local clock offset: -6.924 ms
Remote clock offset: -13.436 ms

Below is generated by plot.py at 2019-12-11 05:07:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.86 Mbit/s
95th percentile per-packet one-way delay: 65.601 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 92.86 Mbit/s
95th percentile per-packet one-way delay: 65.601 ms
Loss rate: 0.28%

Run 5: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-12-11 02:53:16

End at: 2019-12-11 02:53:46

Local clock offset: -8.268 ms

Remote clock offset: -4.427 ms

Below is generated by plot.py at 2019-12-11 05:07:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.48 Mbit/s

95th percentile per-packet one-way delay: 58.243 ms

Loss rate: 3.08%

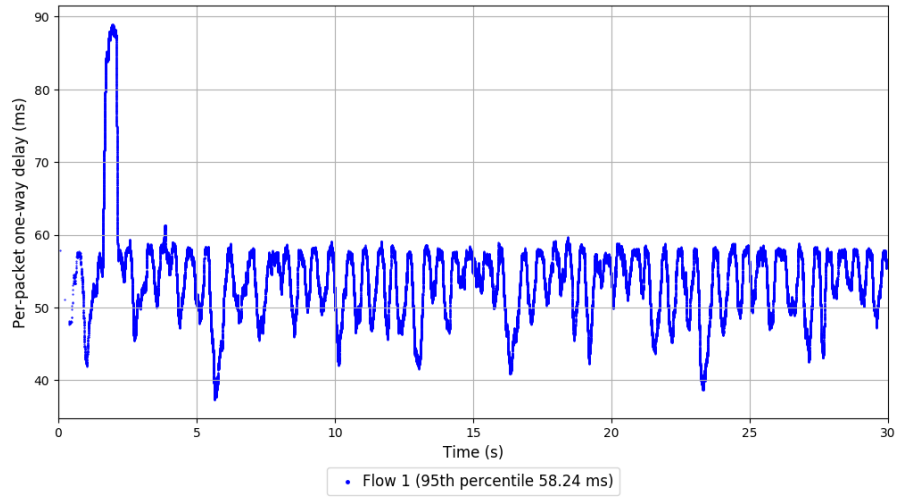
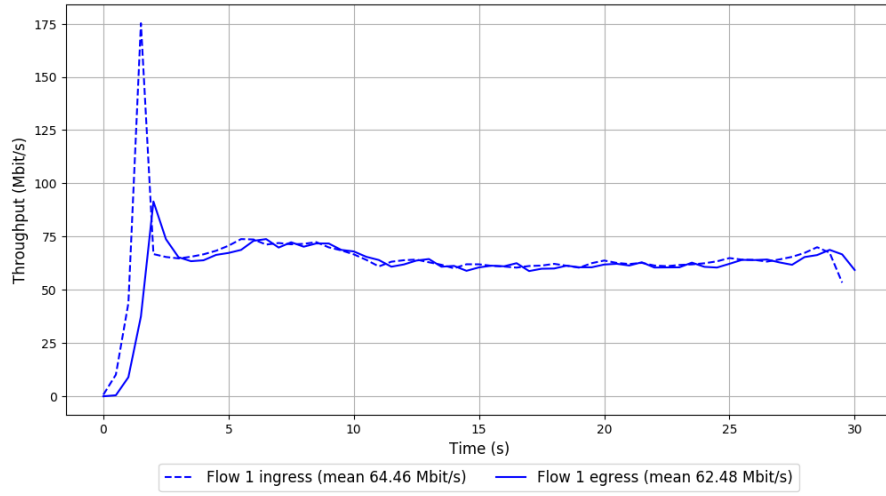
-- Flow 1:

Average throughput: 62.48 Mbit/s

95th percentile per-packet one-way delay: 58.243 ms

Loss rate: 3.08%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-12-11 03:21:17

End at: 2019-12-11 03:21:47

Local clock offset: -8.54 ms

Remote clock offset: -7.328 ms

Below is generated by plot.py at 2019-12-11 05:07:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.62 Mbit/s

95th percentile per-packet one-way delay: 67.966 ms

Loss rate: 4.59%

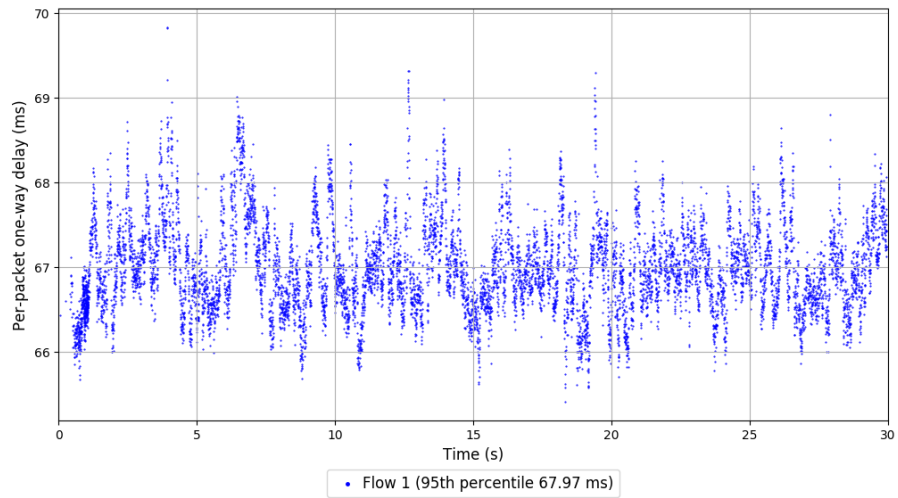
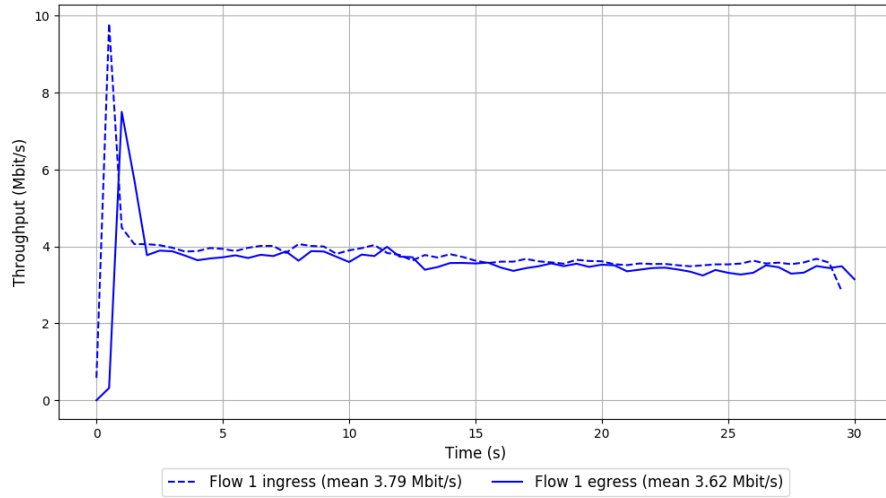
-- Flow 1:

Average throughput: 3.62 Mbit/s

95th percentile per-packet one-way delay: 67.966 ms

Loss rate: 4.59%

Run 2: Report of PCC-Allegro — Data Link

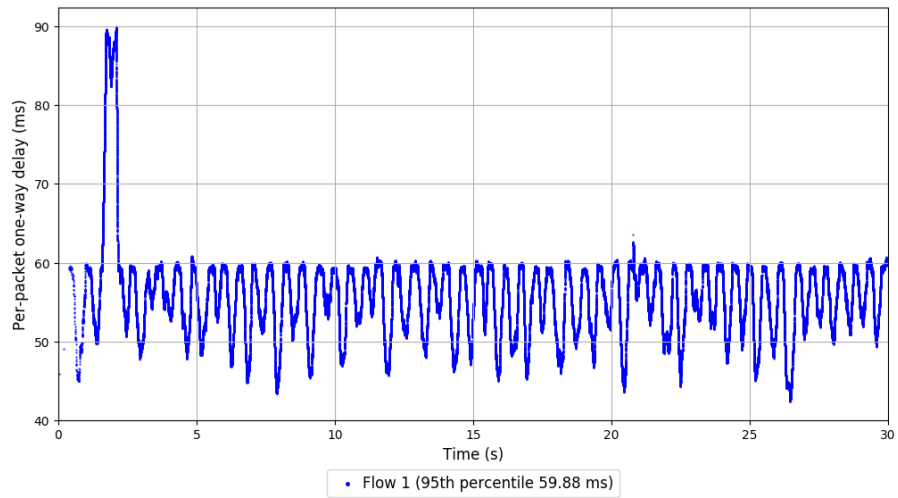
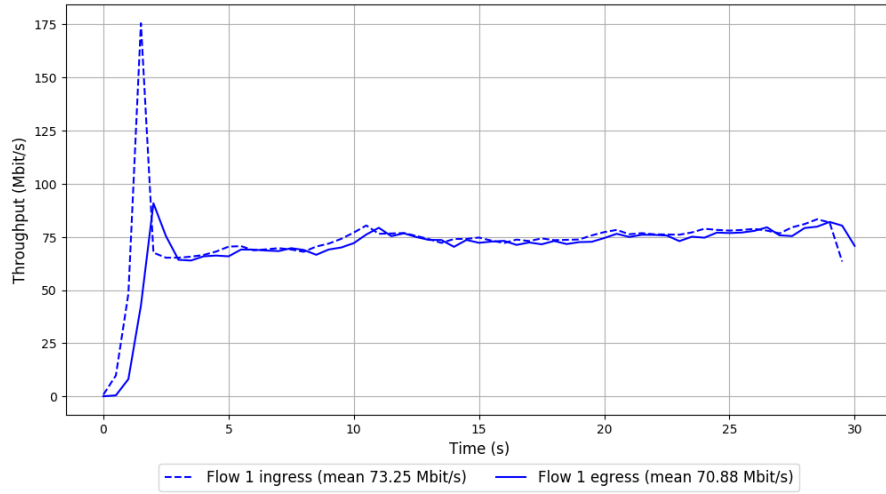


Run 3: Statistics of PCC-Allegro

Start at: 2019-12-11 03:49:17
End at: 2019-12-11 03:49:47
Local clock offset: -8.508 ms
Remote clock offset: -8.427 ms

Below is generated by plot.py at 2019-12-11 05:07:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 70.88 Mbit/s
95th percentile per-packet one-way delay: 59.882 ms
Loss rate: 3.20%
-- Flow 1:
Average throughput: 70.88 Mbit/s
95th percentile per-packet one-way delay: 59.882 ms
Loss rate: 3.20%

Run 3: Report of PCC-Allegro — Data Link

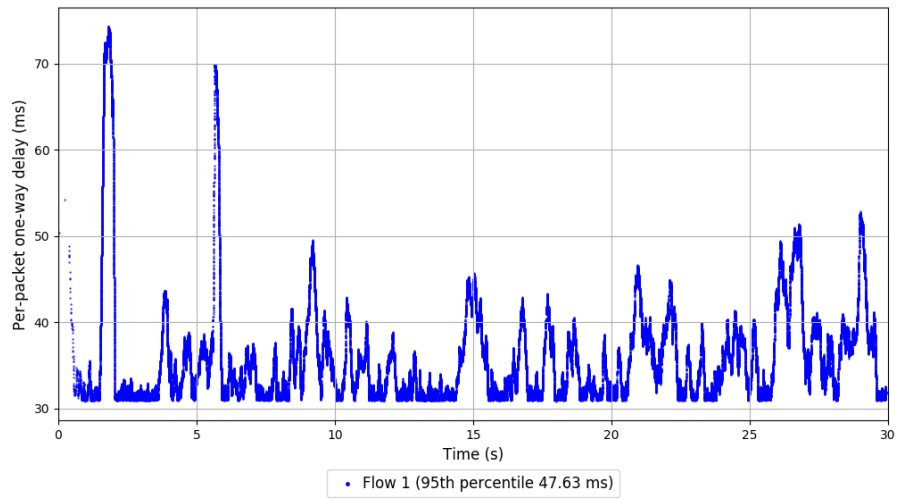
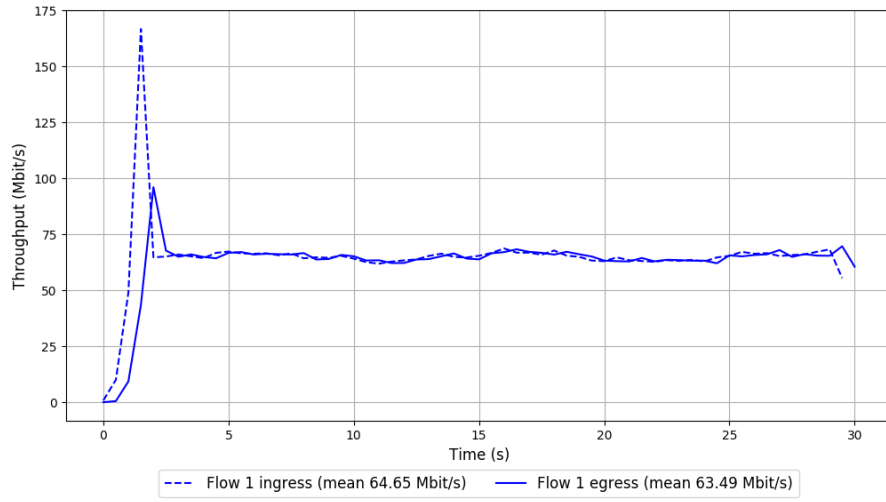


Run 4: Statistics of PCC-Allegro

Start at: 2019-12-11 04:17:15
End at: 2019-12-11 04:17:45
Local clock offset: -7.293 ms
Remote clock offset: -2.832 ms

```
# Below is generated by plot.py at 2019-12-11 05:07:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.49 Mbit/s
95th percentile per-packet one-way delay: 47.628 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 63.49 Mbit/s
95th percentile per-packet one-way delay: 47.628 ms
Loss rate: 1.86%
```

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-12-11 04:45:06

End at: 2019-12-11 04:45:36

Local clock offset: -7.706 ms

Remote clock offset: -12.867 ms

Below is generated by plot.py at 2019-12-11 05:08:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.73 Mbit/s

95th percentile per-packet one-way delay: 80.160 ms

Loss rate: 1.77%

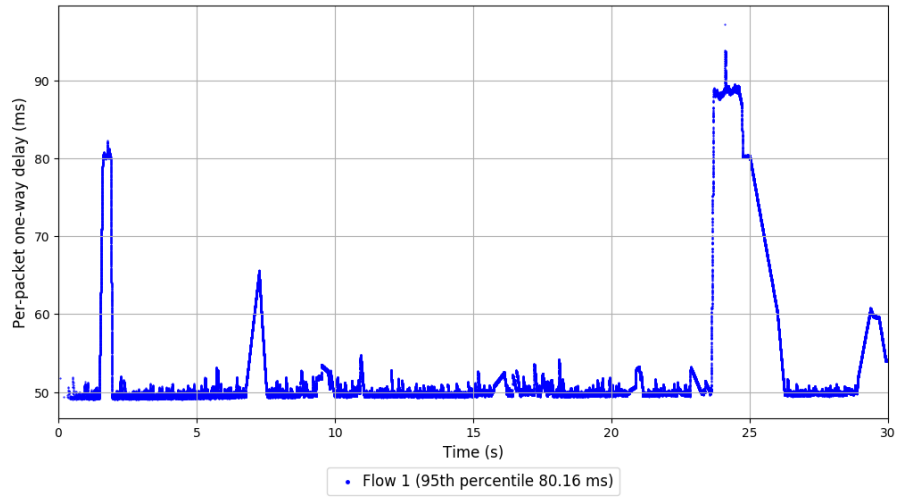
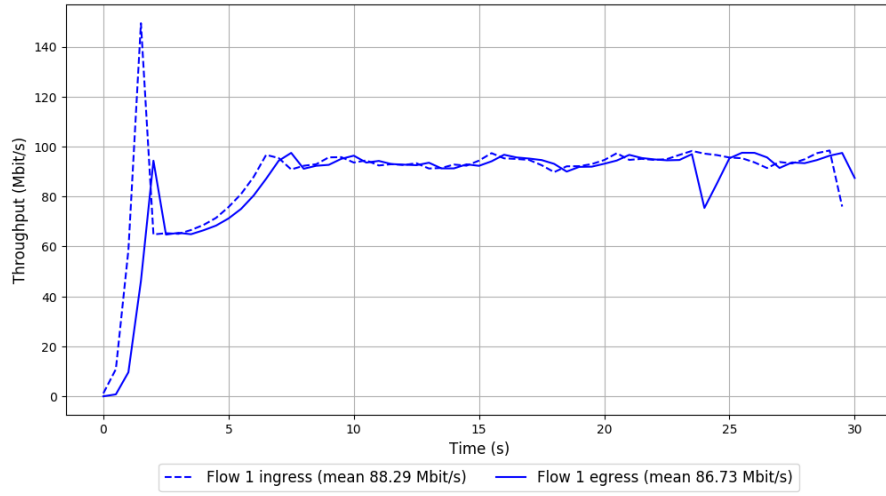
-- Flow 1:

Average throughput: 86.73 Mbit/s

95th percentile per-packet one-way delay: 80.160 ms

Loss rate: 1.77%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

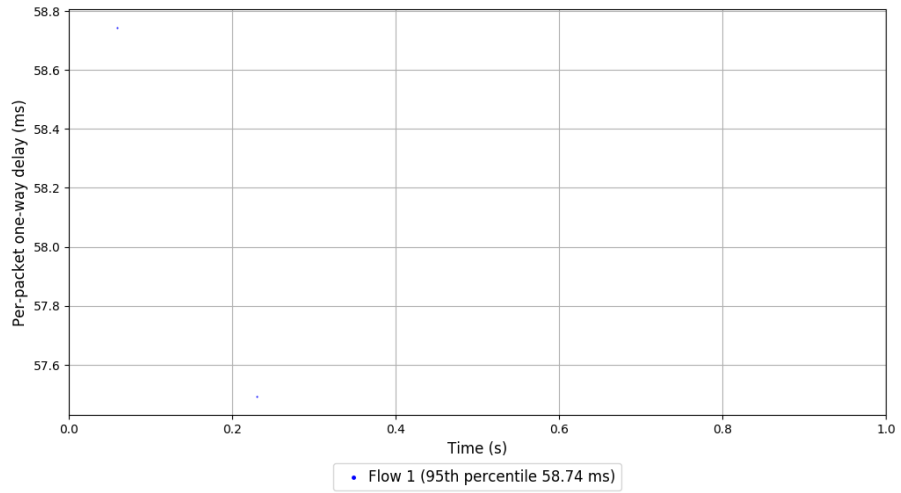
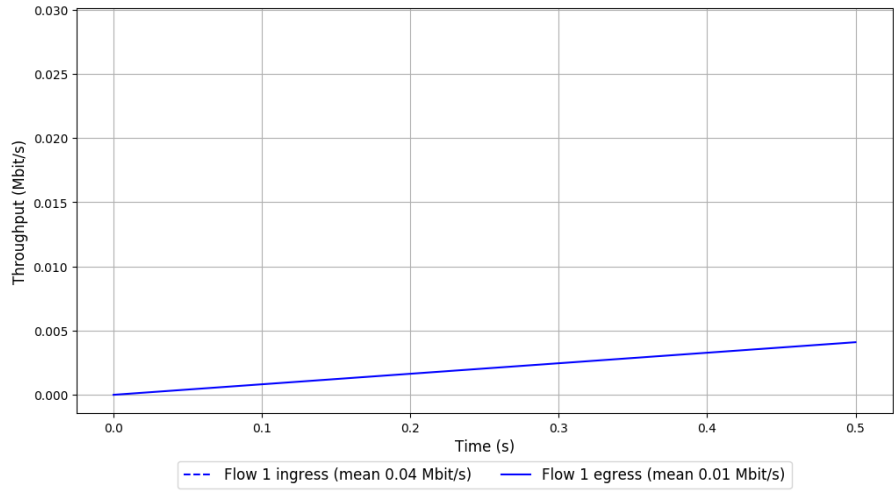
Start at: 2019-12-11 02:59:08

End at: 2019-12-11 02:59:38

Local clock offset: -7.729 ms

Remote clock offset: -3.713 ms

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

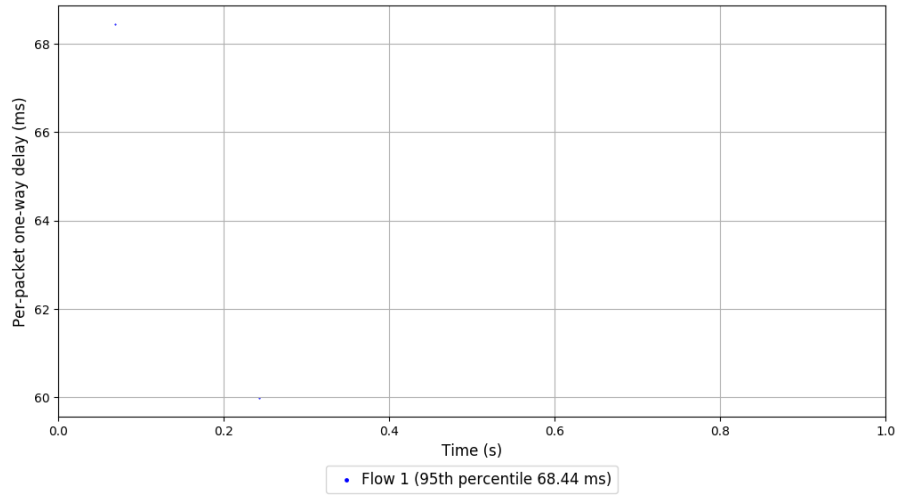
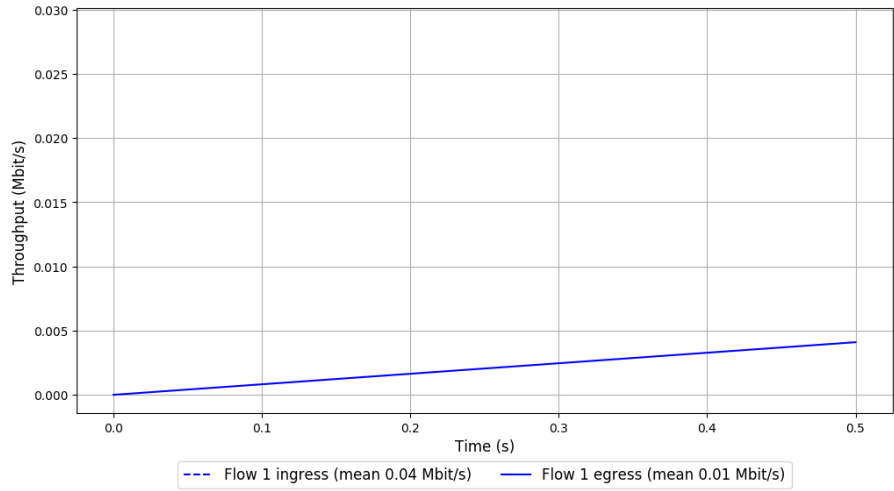
Start at: 2019-12-11 03:27:17

End at: 2019-12-11 03:27:47

Local clock offset: -8.989 ms

Remote clock offset: -8.12 ms

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

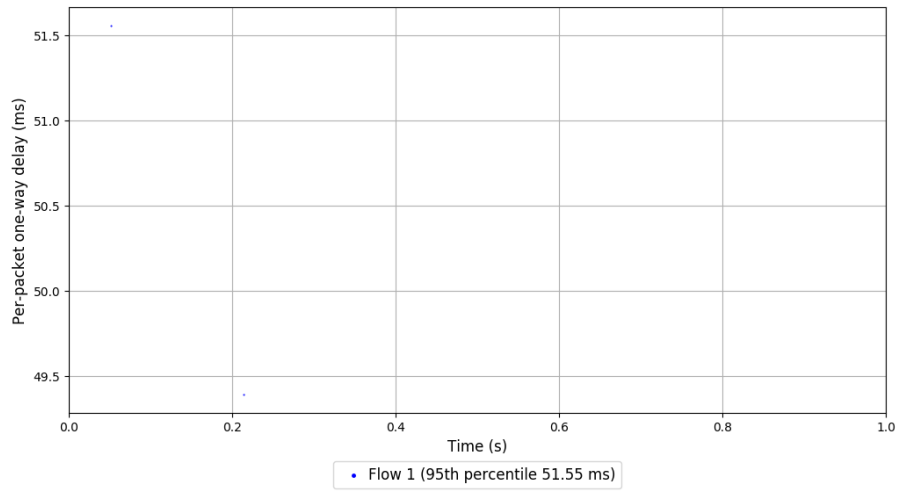
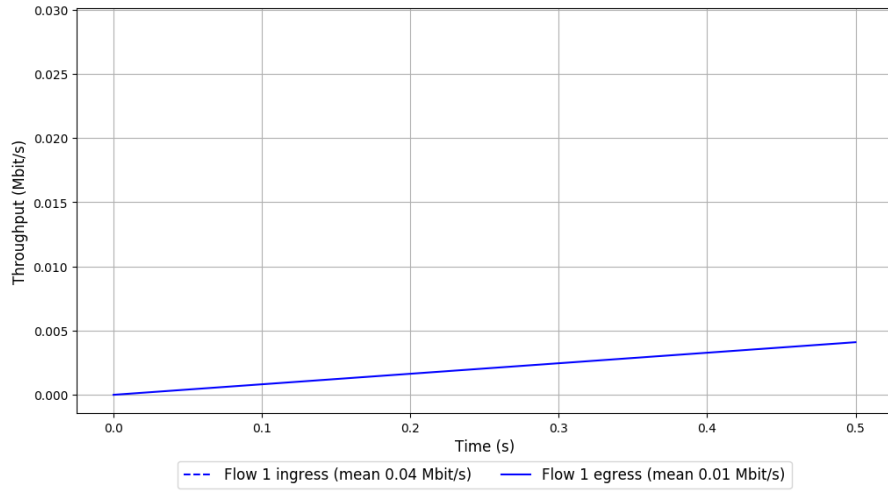
Start at: 2019-12-11 03:55:09

End at: 2019-12-11 03:55:39

Local clock offset: -8.331 ms

Remote clock offset: -7.328 ms

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

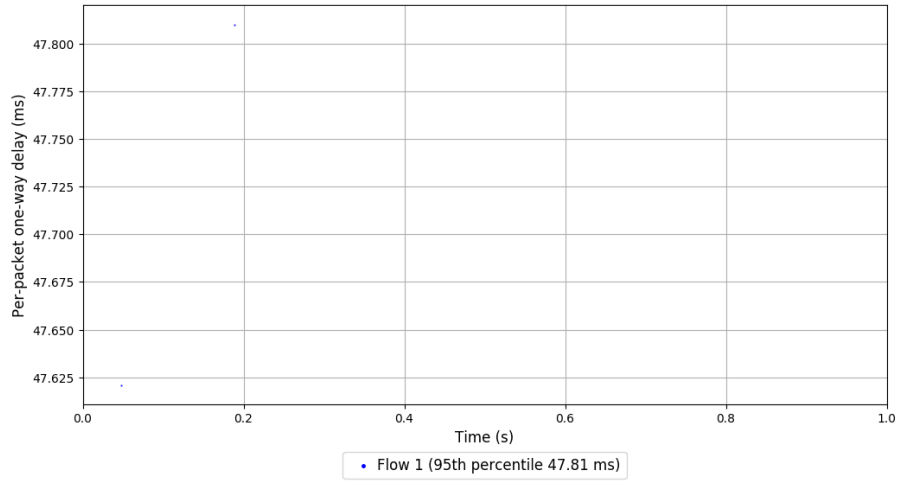
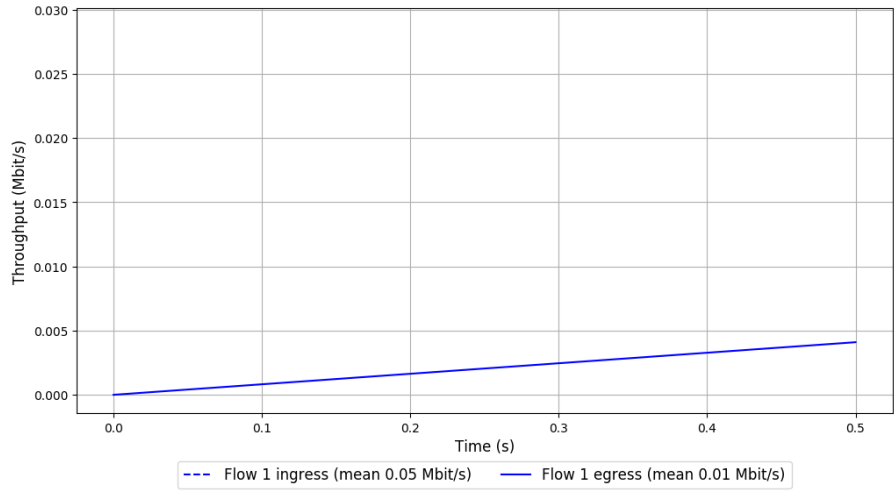
Start at: 2019-12-11 04:23:08

End at: 2019-12-11 04:23:38

Local clock offset: -7.232 ms

Remote clock offset: 16.893 ms

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

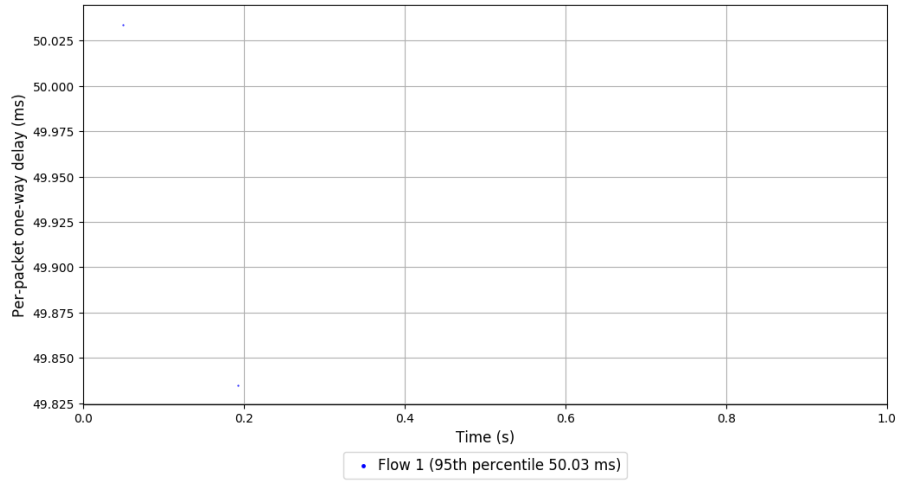
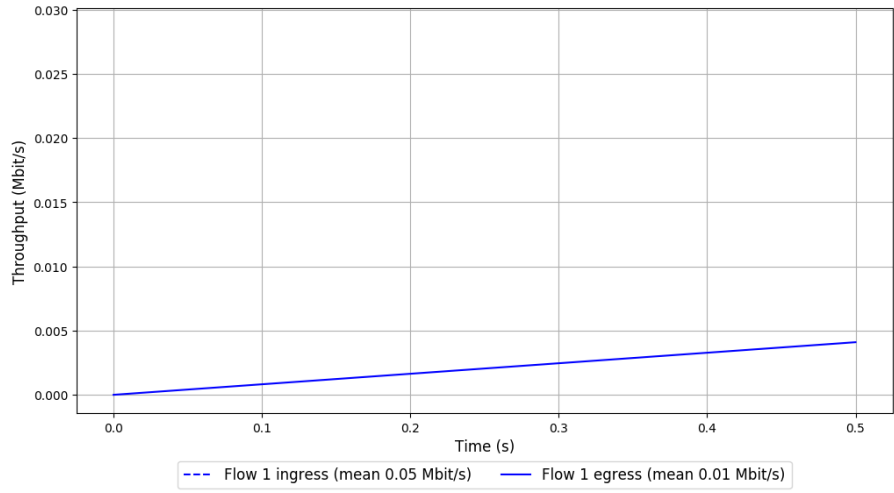
Start at: 2019-12-11 04:51:00

End at: 2019-12-11 04:51:30

Local clock offset: -6.823 ms

Remote clock offset: -16.51 ms

Run 5: Report of PCC-Expr — Data Link

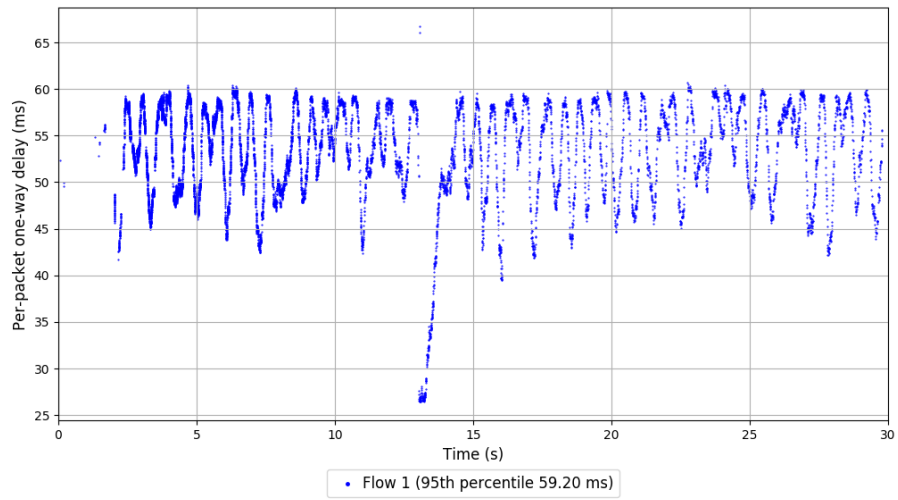
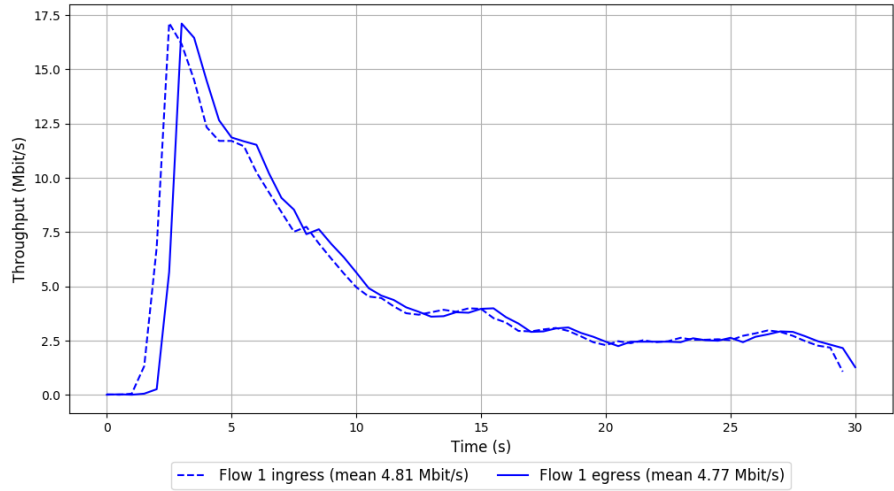


Run 1: Statistics of QUIC Cubic

Start at: 2019-12-11 02:46:21
End at: 2019-12-11 02:46:51
Local clock offset: -8.823 ms
Remote clock offset: -1.202 ms

Below is generated by plot.py at 2019-12-11 05:08:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.77 Mbit/s
95th percentile per-packet one-way delay: 59.199 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 4.77 Mbit/s
95th percentile per-packet one-way delay: 59.199 ms
Loss rate: 0.85%

Run 1: Report of QUIC Cubic — Data Link

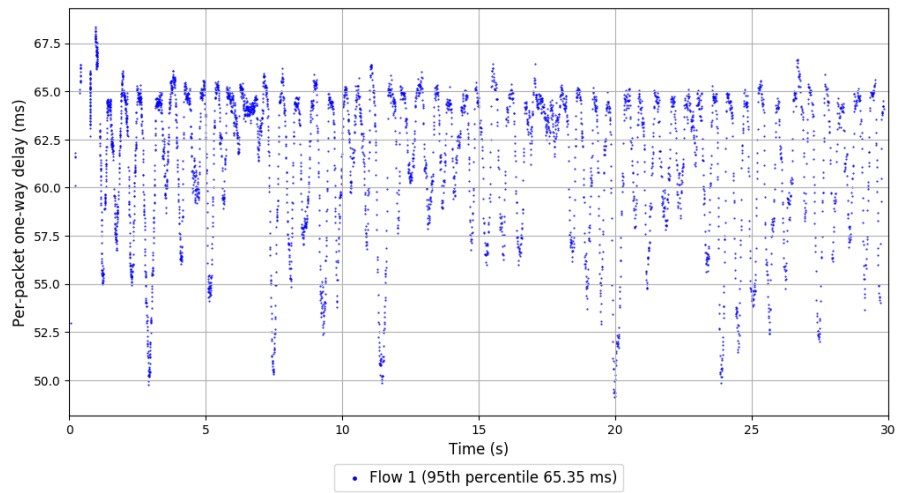
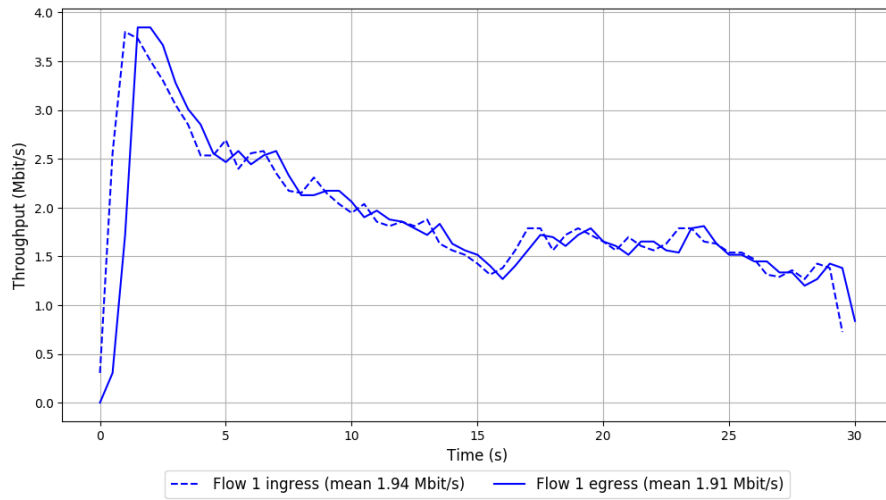


Run 2: Statistics of QUIC Cubic

Start at: 2019-12-11 03:14:11
End at: 2019-12-11 03:14:41
Local clock offset: -7.961 ms
Remote clock offset: -3.753 ms

Below is generated by plot.py at 2019-12-11 05:08:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.91 Mbit/s
95th percentile per-packet one-way delay: 65.348 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 1.91 Mbit/s
95th percentile per-packet one-way delay: 65.348 ms
Loss rate: 1.55%

Run 2: Report of QUIC Cubic — Data Link

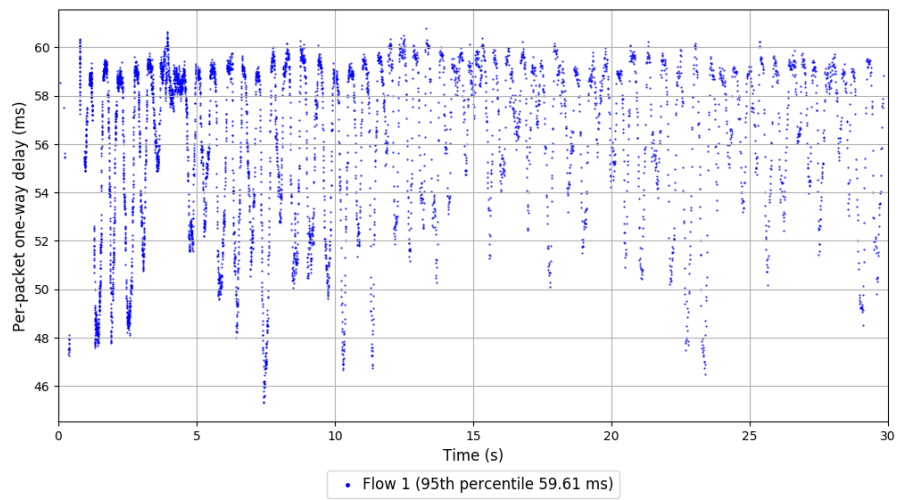
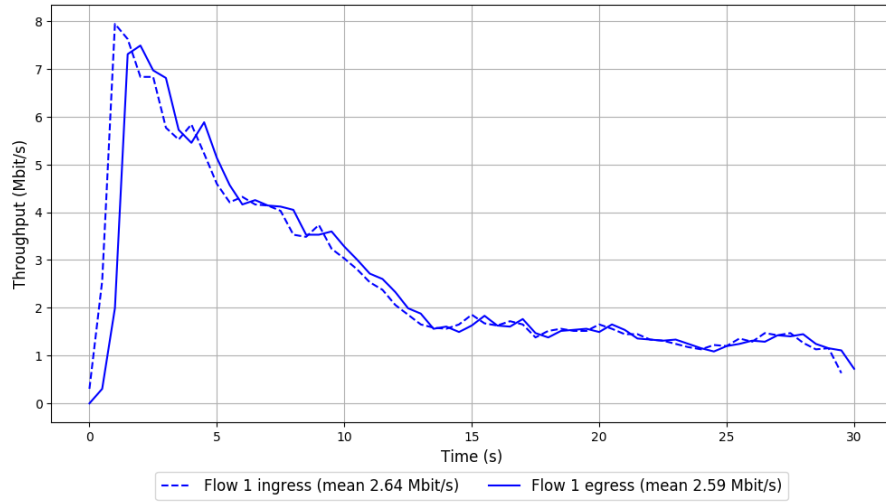


Run 3: Statistics of QUIC Cubic

Start at: 2019-12-11 03:42:20
End at: 2019-12-11 03:42:50
Local clock offset: -8.588 ms
Remote clock offset: -7.949 ms

Below is generated by plot.py at 2019-12-11 05:08:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.59 Mbit/s
95th percentile per-packet one-way delay: 59.606 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 2.59 Mbit/s
95th percentile per-packet one-way delay: 59.606 ms
Loss rate: 1.57%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-12-11 04:10:13

End at: 2019-12-11 04:10:44

Local clock offset: -7.8 ms

Remote clock offset: -2.142 ms

Below is generated by plot.py at 2019-12-11 05:08:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.86 Mbit/s

95th percentile per-packet one-way delay: 47.406 ms

Loss rate: 0.01%

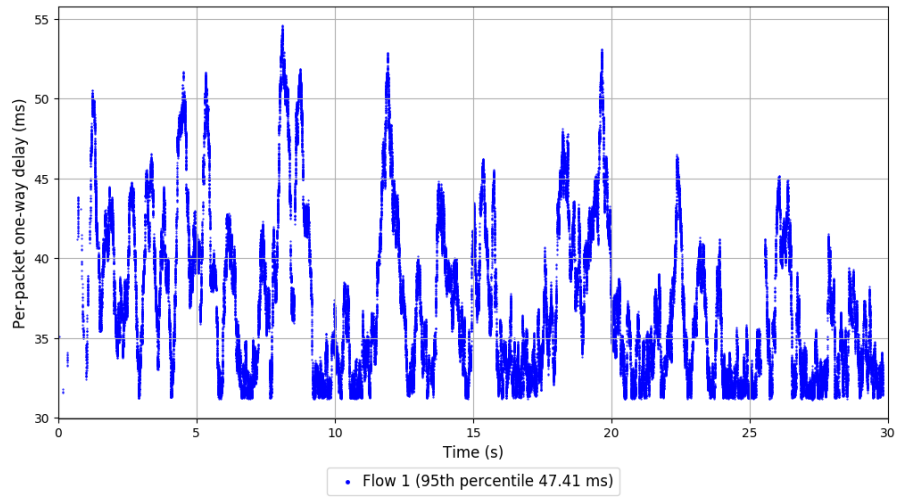
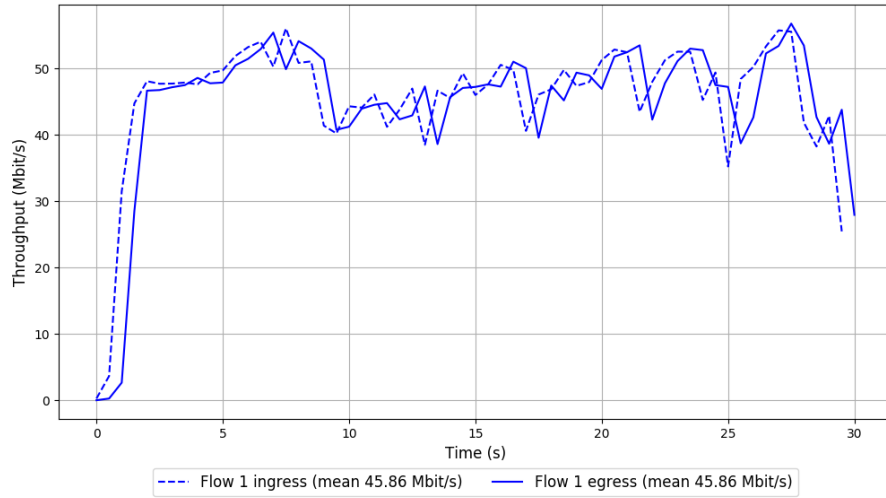
-- Flow 1:

Average throughput: 45.86 Mbit/s

95th percentile per-packet one-way delay: 47.406 ms

Loss rate: 0.01%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-12-11 04:38:07

End at: 2019-12-11 04:38:37

Local clock offset: -8.104 ms

Remote clock offset: -7.506 ms

Below is generated by plot.py at 2019-12-11 05:08:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.26 Mbit/s

95th percentile per-packet one-way delay: 57.567 ms

Loss rate: 0.83%

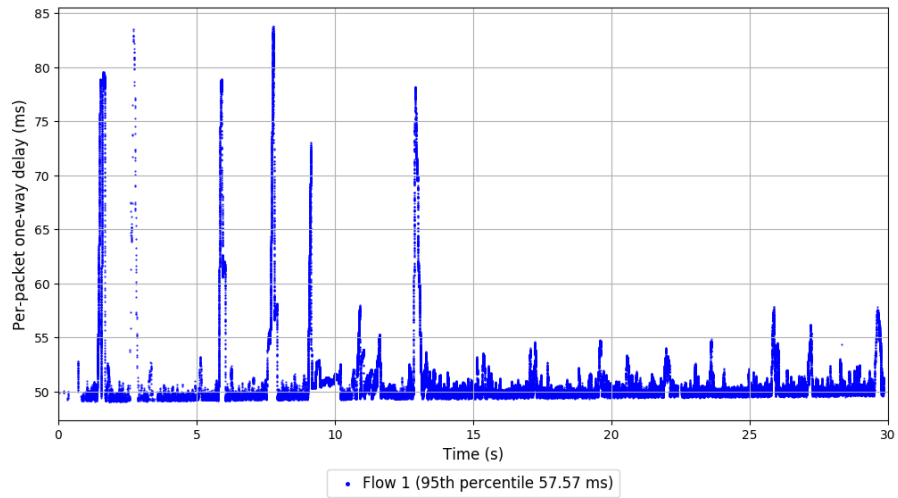
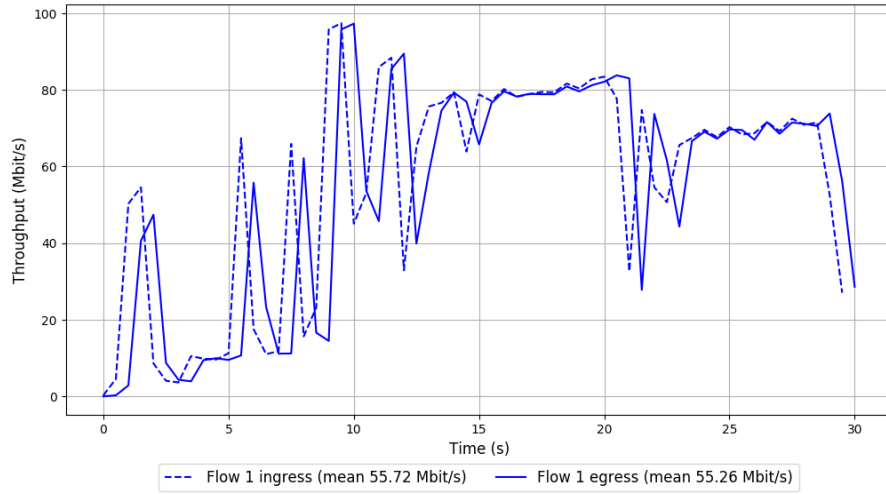
-- Flow 1:

Average throughput: 55.26 Mbit/s

95th percentile per-packet one-way delay: 57.567 ms

Loss rate: 0.83%

Run 5: Report of QUIC Cubic — Data Link

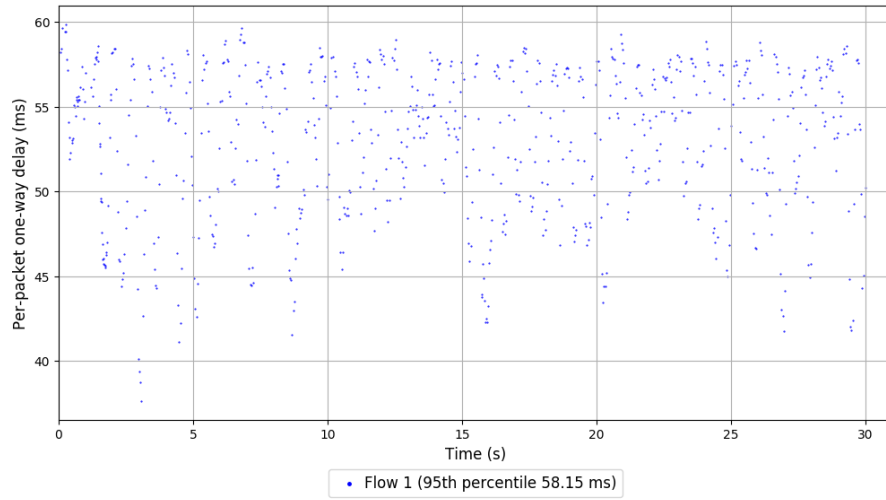
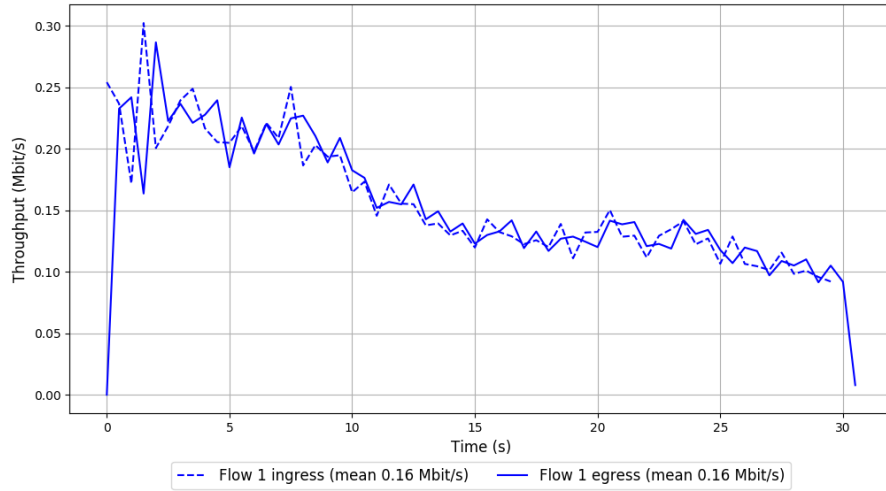


Run 1: Statistics of SCReAM

Start at: 2019-12-11 02:50:58
End at: 2019-12-11 02:51:28
Local clock offset: -7.42 ms
Remote clock offset: -5.143 ms

Below is generated by plot.py at 2019-12-11 05:08:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 58.146 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 58.146 ms
Loss rate: 0.25%

Run 1: Report of SCReAM — Data Link

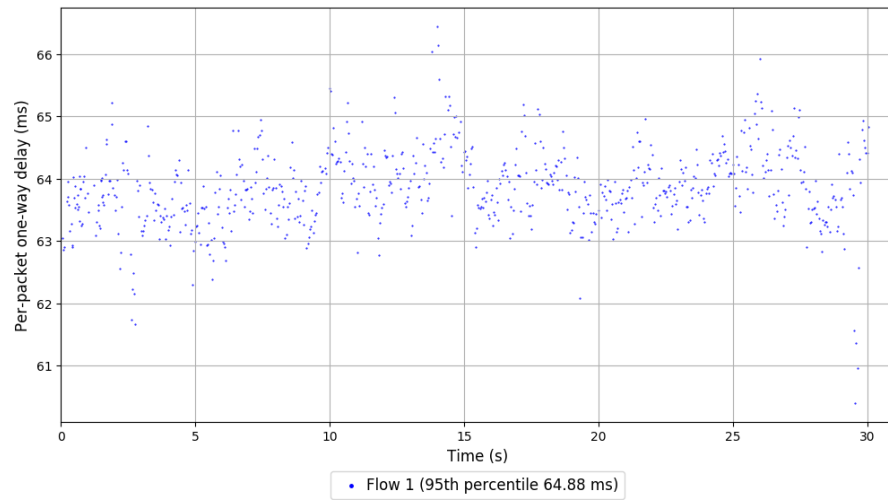
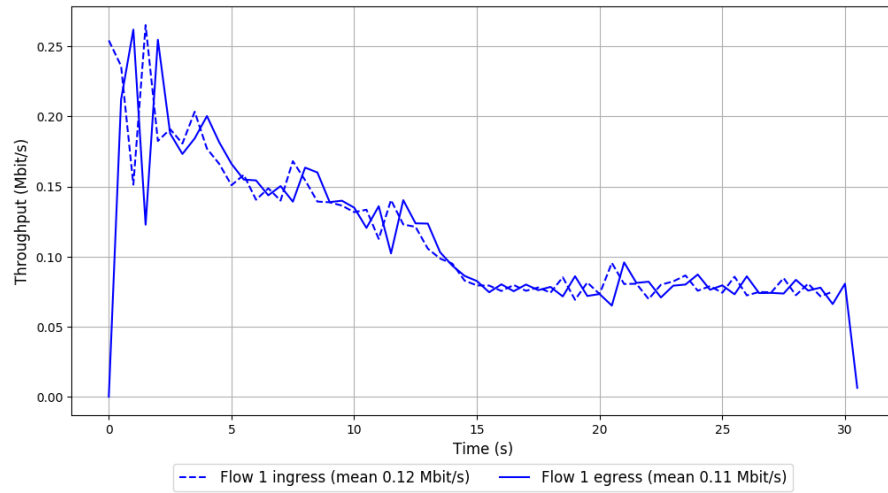


Run 2: Statistics of SCReAM

Start at: 2019-12-11 03:18:58
End at: 2019-12-11 03:19:28
Local clock offset: -8.279 ms
Remote clock offset: -6.654 ms

Below is generated by plot.py at 2019-12-11 05:08:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 64.878 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 64.878 ms
Loss rate: 1.46%

Run 2: Report of SCReAM — Data Link

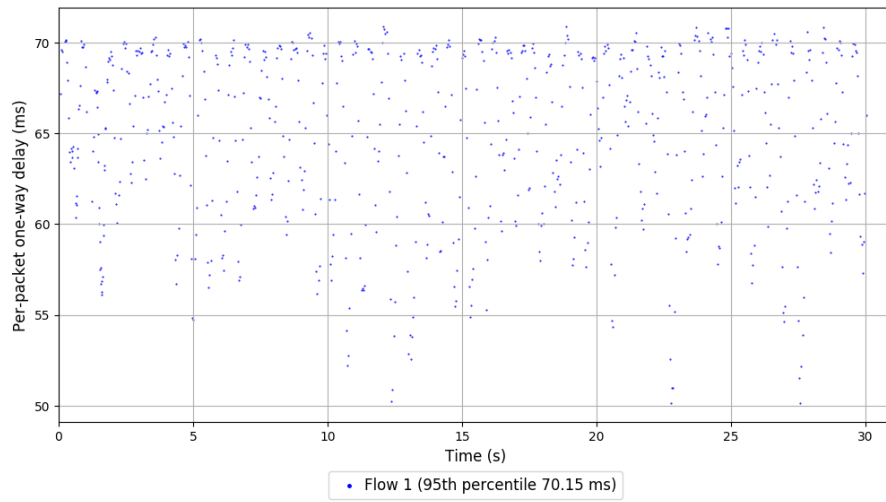
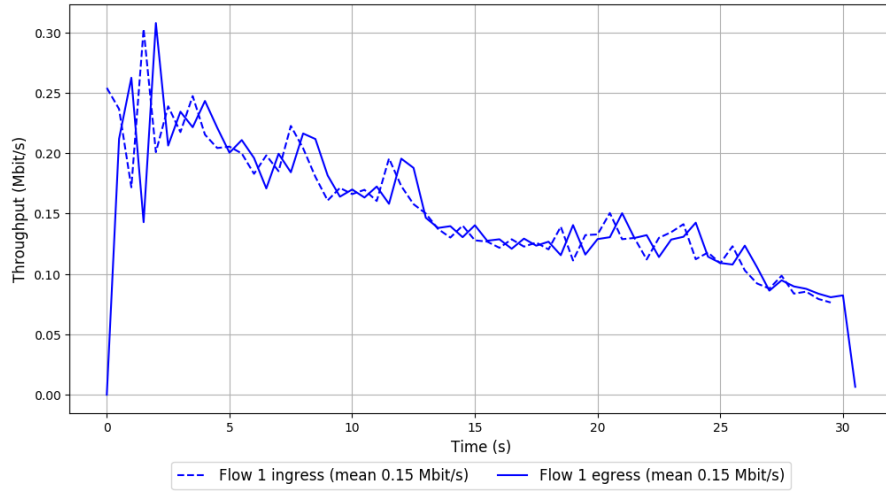


Run 3: Statistics of SCReAM

Start at: 2019-12-11 03:46:59
End at: 2019-12-11 03:47:29
Local clock offset: -7.884 ms
Remote clock offset: -5.192 ms

Below is generated by plot.py at 2019-12-11 05:08:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 70.153 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 70.153 ms
Loss rate: 0.51%

Run 3: Report of SCReAM — Data Link

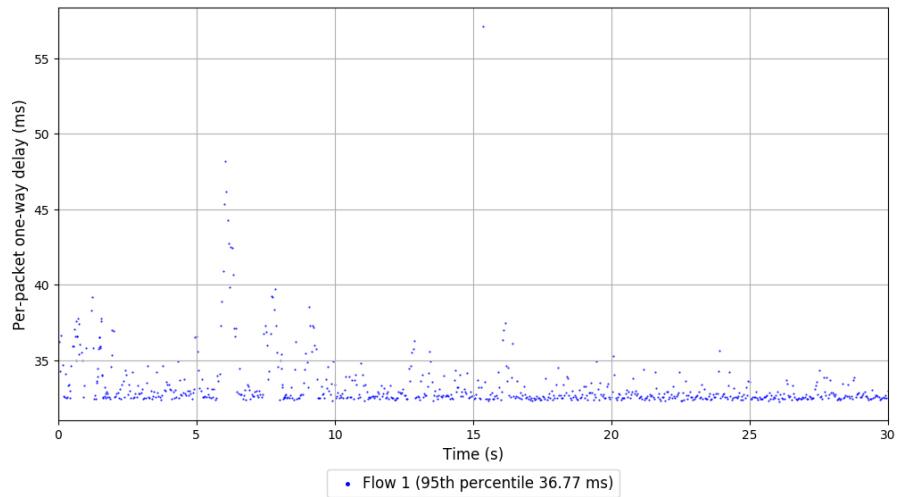
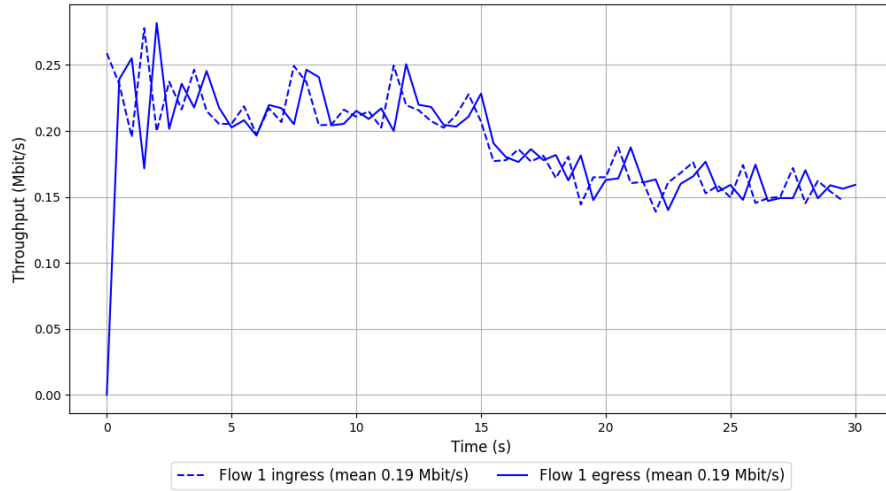


Run 4: Statistics of SCReAM

Start at: 2019-12-11 04:14:57
End at: 2019-12-11 04:15:27
Local clock offset: -8.089 ms
Remote clock offset: -1.278 ms

Below is generated by plot.py at 2019-12-11 05:08:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 36.772 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 36.772 ms
Loss rate: 0.15%

Run 4: Report of SCReAM — Data Link

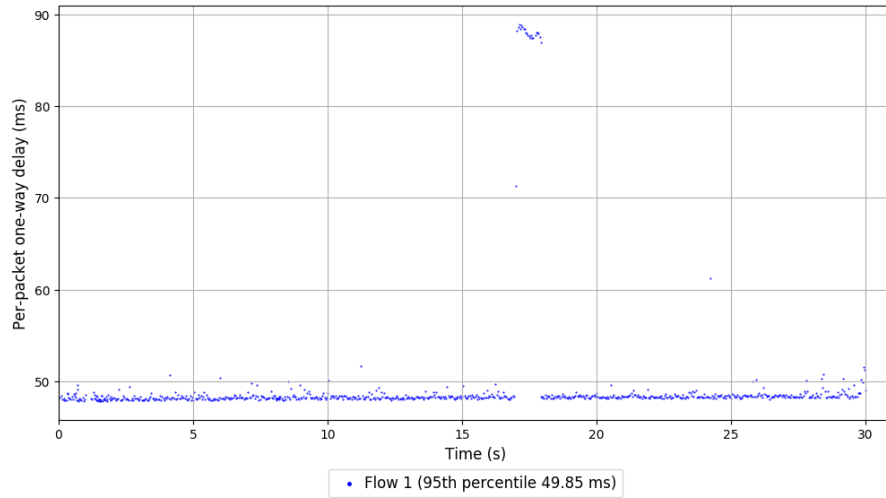
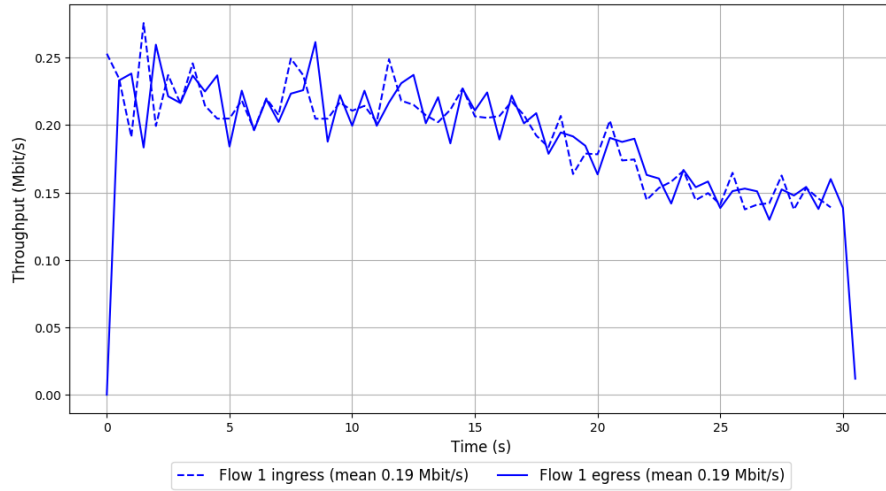


Run 5: Statistics of SCReAM

Start at: 2019-12-11 04:42:48
End at: 2019-12-11 04:43:18
Local clock offset: -7.773 ms
Remote clock offset: -11.613 ms

```
# Below is generated by plot.py at 2019-12-11 05:08:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 49.854 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 49.854 ms
Loss rate: 0.15%
```

Run 5: Report of SCReAM — Data Link

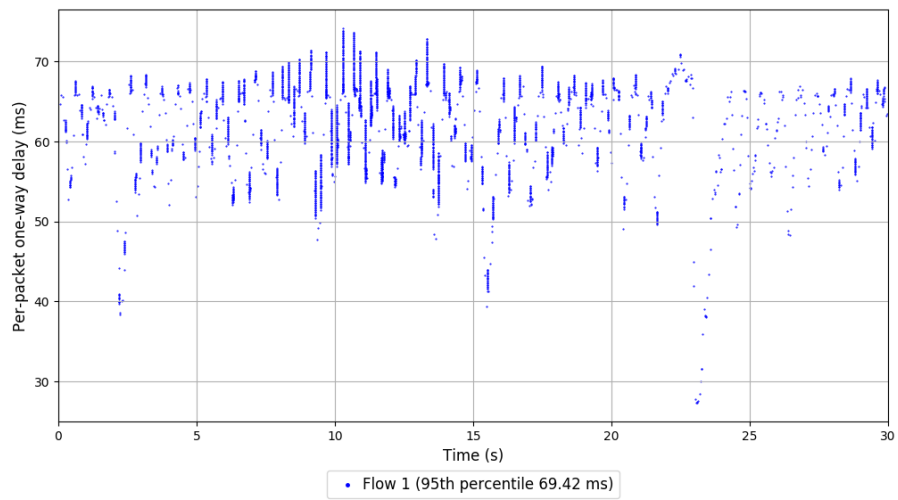
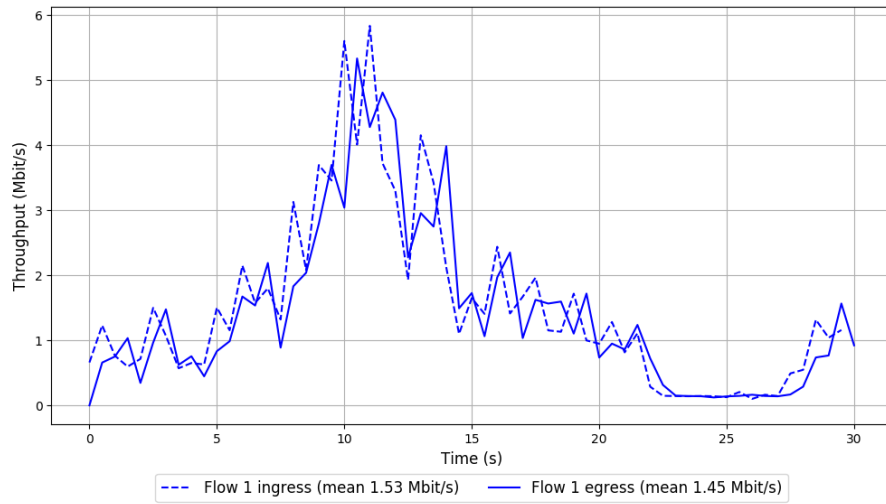


Run 1: Statistics of Sprout

Start at: 2019-12-11 03:01:28
End at: 2019-12-11 03:01:58
Local clock offset: -7.519 ms
Remote clock offset: -6.123 ms

Below is generated by plot.py at 2019-12-11 05:08:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 69.417 ms
Loss rate: 4.70%
-- Flow 1:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 69.417 ms
Loss rate: 4.70%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-12-11 03:29:36
End at: 2019-12-11 03:30:06
Local clock offset: -9.192 ms
Remote clock offset: -7.659 ms

Below is generated by plot.py at 2019-12-11 05:08:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 71.691 ms

Loss rate: 7.43%

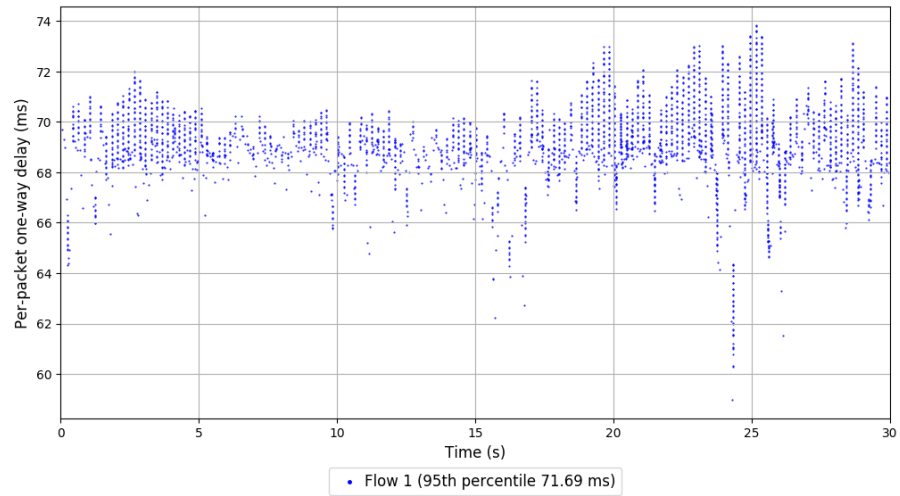
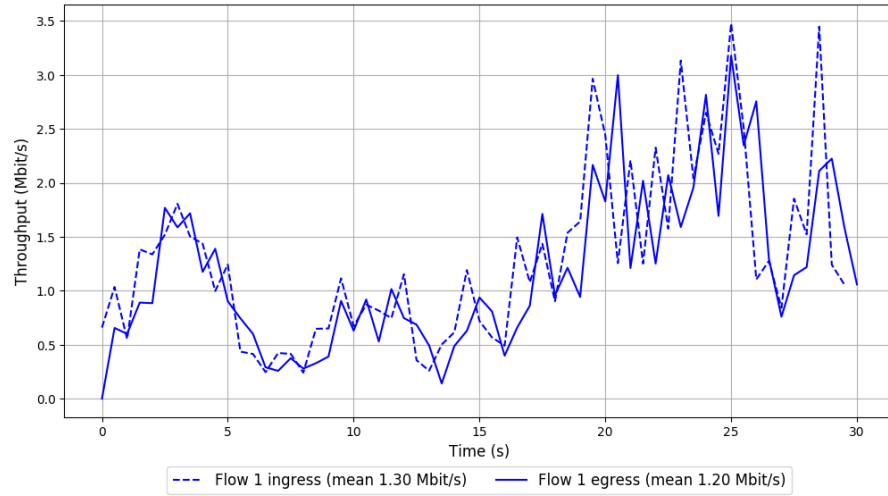
-- Flow 1:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 71.691 ms

Loss rate: 7.43%

Run 2: Report of Sprout — Data Link

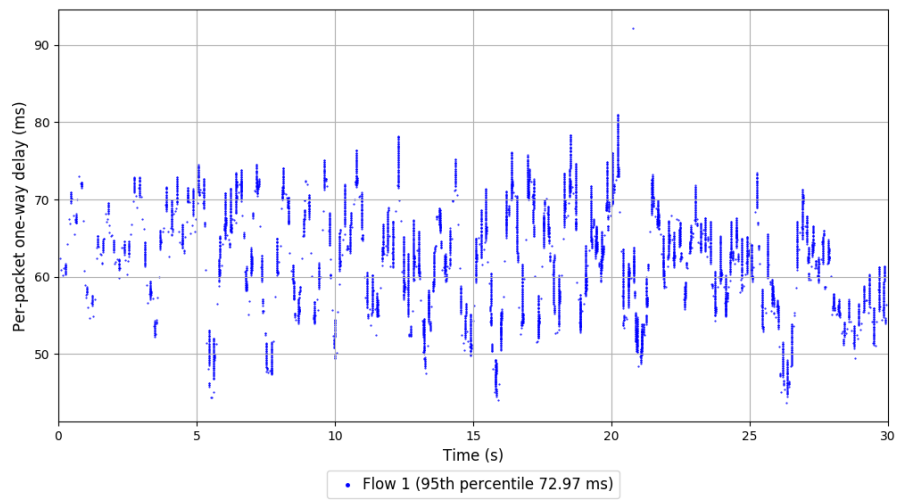
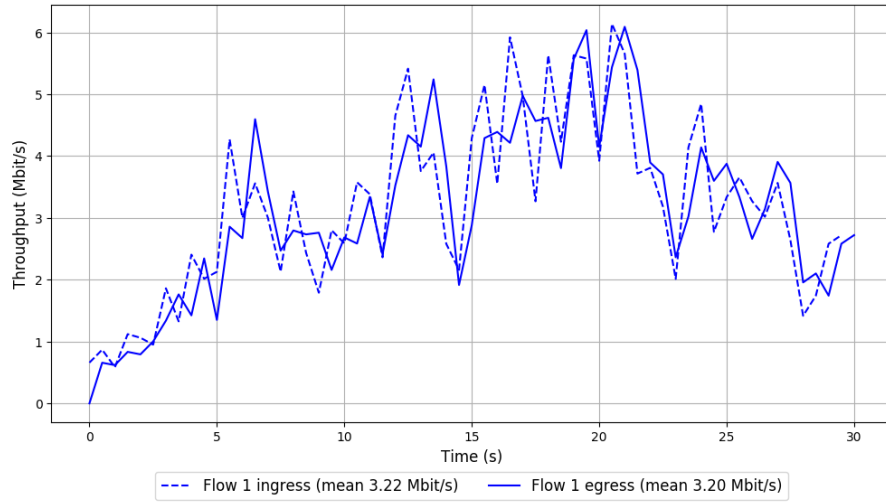


Run 3: Statistics of Sprout

Start at: 2019-12-11 03:57:28
End at: 2019-12-11 03:57:58
Local clock offset: -7.659 ms
Remote clock offset: -3.348 ms

Below is generated by plot.py at 2019-12-11 05:08:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.20 Mbit/s
95th percentile per-packet one-way delay: 72.965 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 3.20 Mbit/s
95th percentile per-packet one-way delay: 72.965 ms
Loss rate: 0.49%

Run 3: Report of Sprout — Data Link

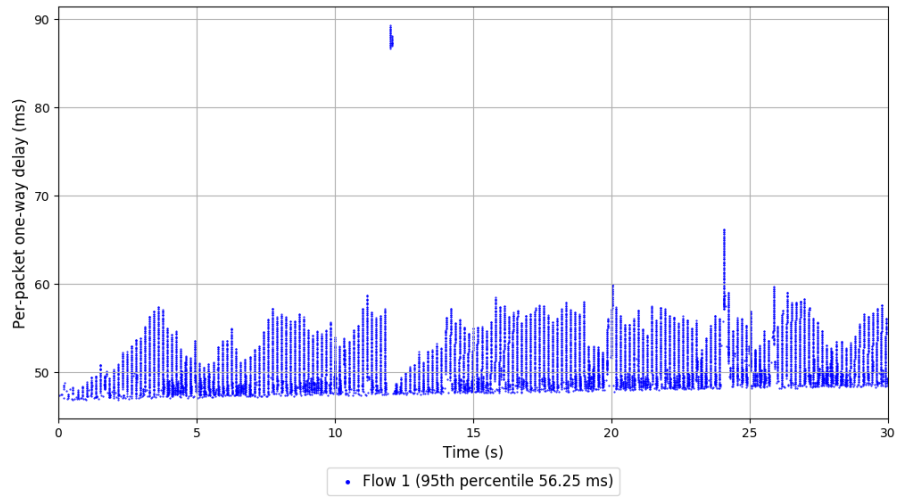
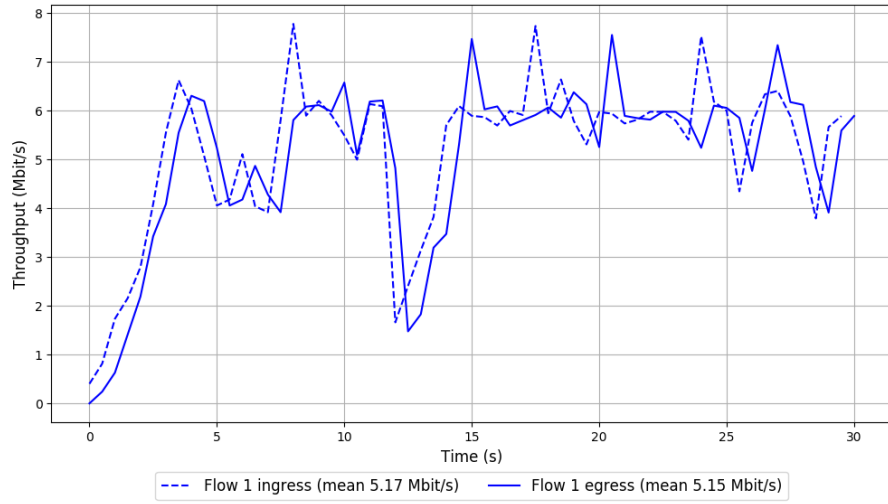


Run 4: Statistics of Sprout

Start at: 2019-12-11 04:25:25
End at: 2019-12-11 04:25:55
Local clock offset: -7.188 ms
Remote clock offset: 14.596 ms

```
# Below is generated by plot.py at 2019-12-11 05:08:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.15 Mbit/s
95th percentile per-packet one-way delay: 56.252 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 5.15 Mbit/s
95th percentile per-packet one-way delay: 56.252 ms
Loss rate: 0.54%
```

Run 4: Report of Sprout — Data Link

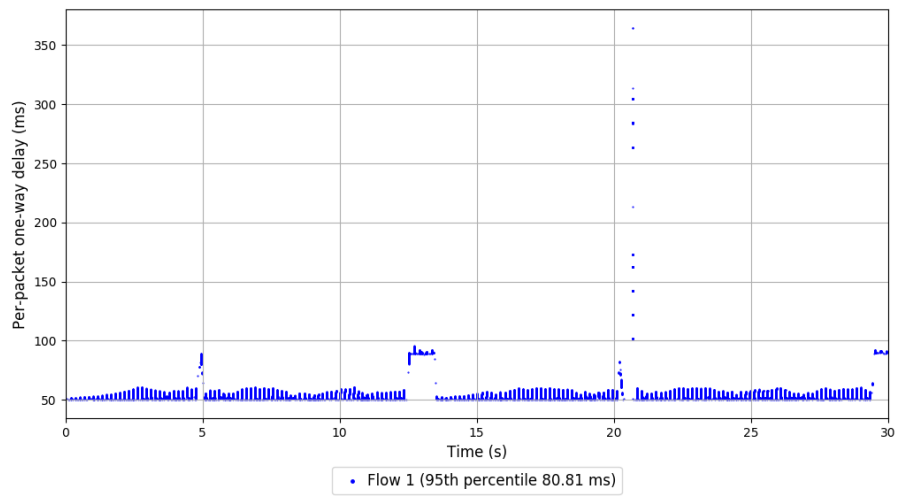
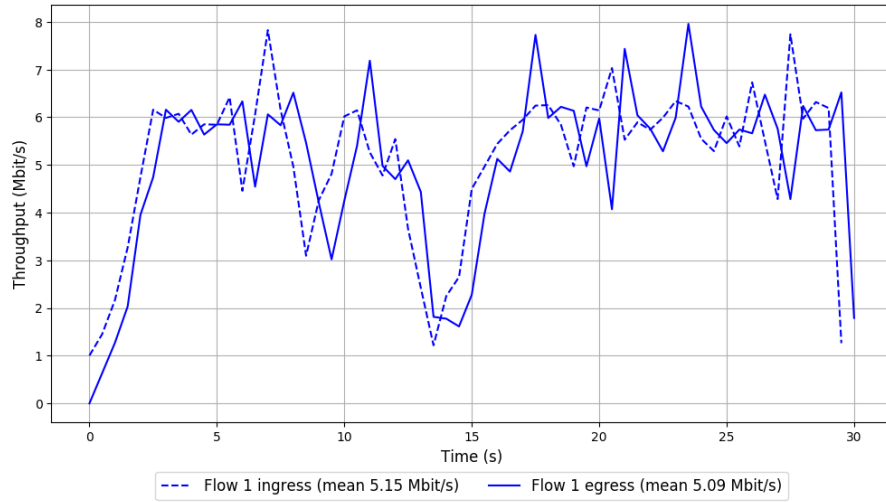


Run 5: Statistics of Sprout

Start at: 2019-12-11 04:53:18
End at: 2019-12-11 04:53:48
Local clock offset: -6.805 ms
Remote clock offset: -16.867 ms

```
# Below is generated by plot.py at 2019-12-11 05:08:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.09 Mbit/s
95th percentile per-packet one-way delay: 80.805 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 5.09 Mbit/s
95th percentile per-packet one-way delay: 80.805 ms
Loss rate: 1.02%
```

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-12-11 02:45:11
End at: 2019-12-11 02:45:42
Local clock offset: -7.797 ms
Remote clock offset: -1.821 ms

Below is generated by plot.py at 2019-12-11 05:08:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.44 Mbit/s

95th percentile per-packet one-way delay: 58.015 ms

Loss rate: 31.19%

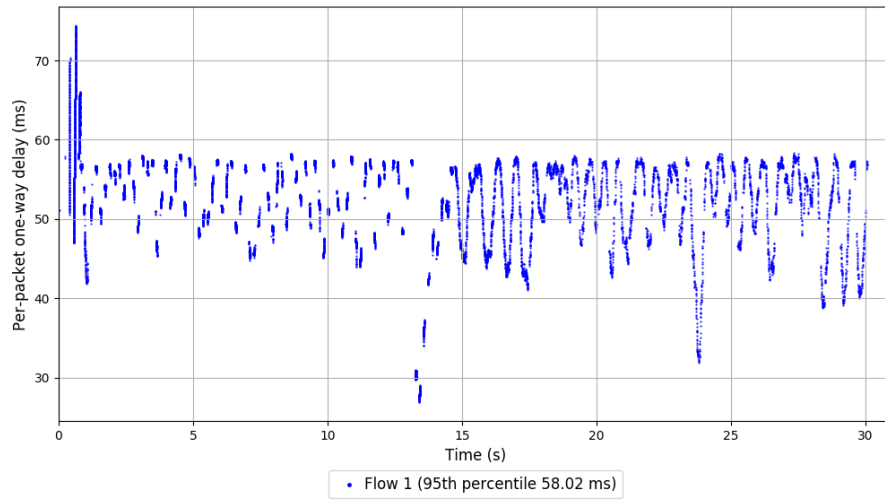
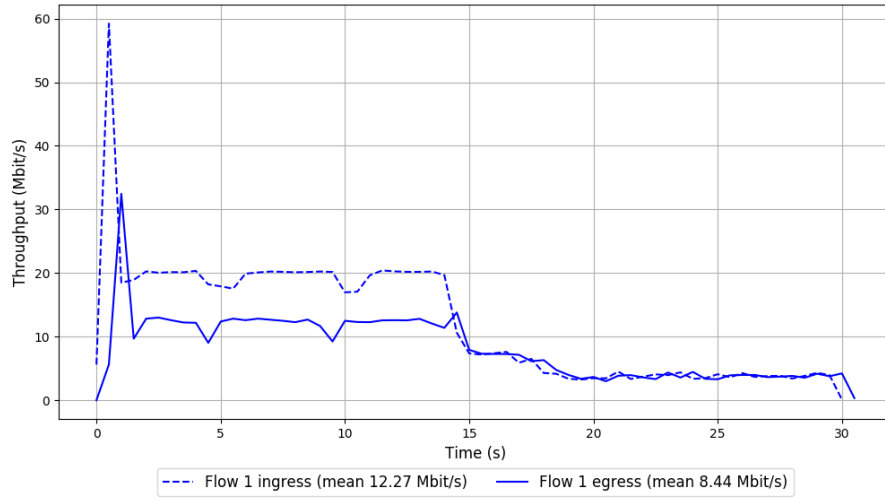
-- Flow 1:

Average throughput: 8.44 Mbit/s

95th percentile per-packet one-way delay: 58.015 ms

Loss rate: 31.19%

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



Run 2: Statistics of TaoVA-100x

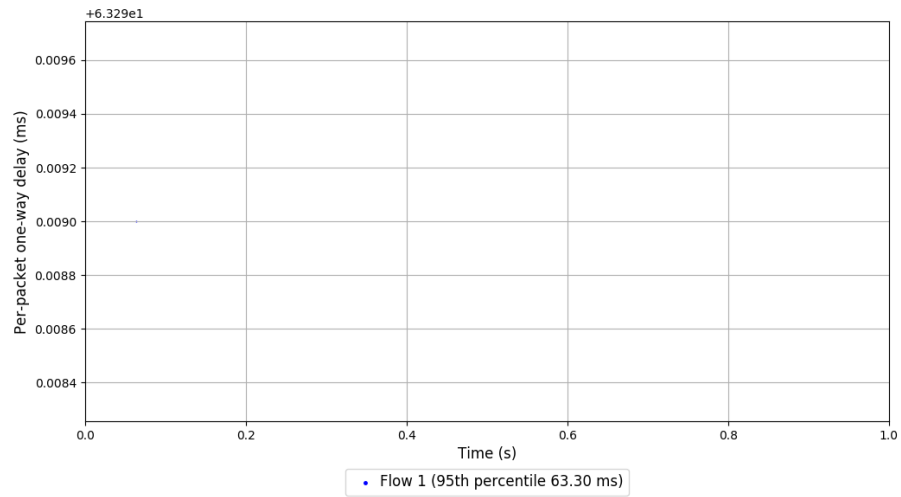
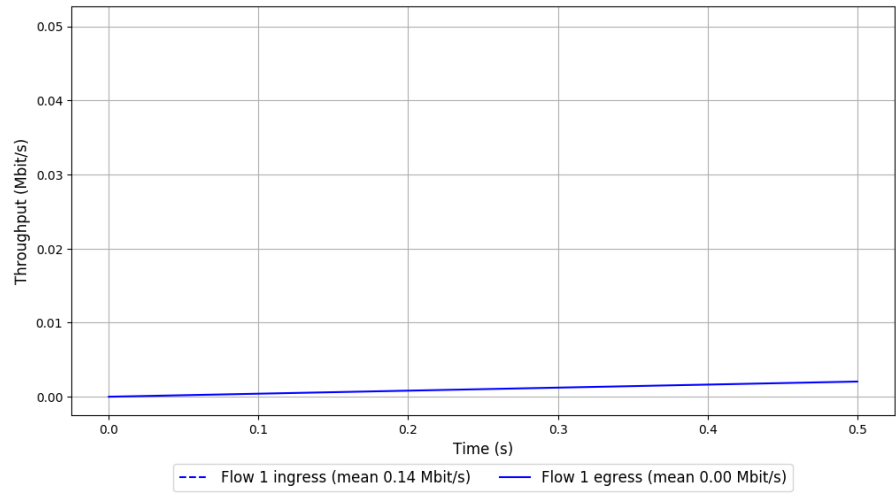
Start at: 2019-12-11 03:13:04

End at: 2019-12-11 03:13:34

Local clock offset: -7.982 ms

Remote clock offset: -5.132 ms

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



Run 3: Statistics of TaoVA-100x

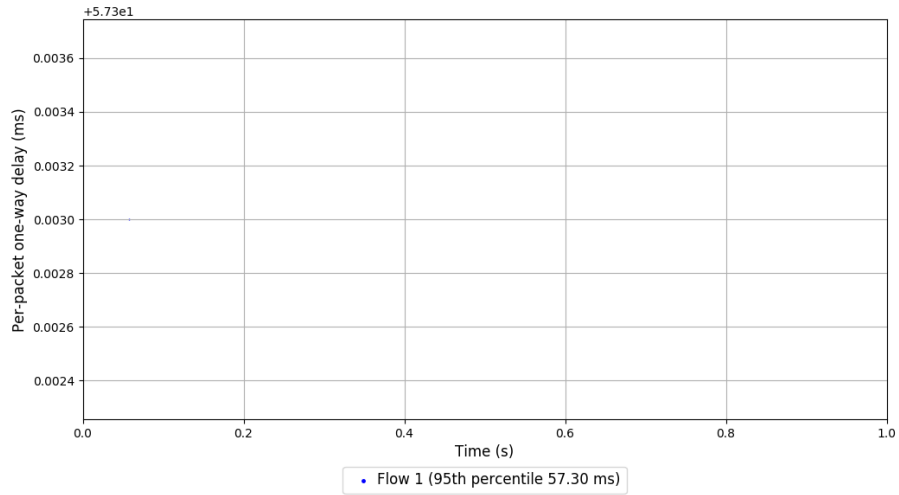
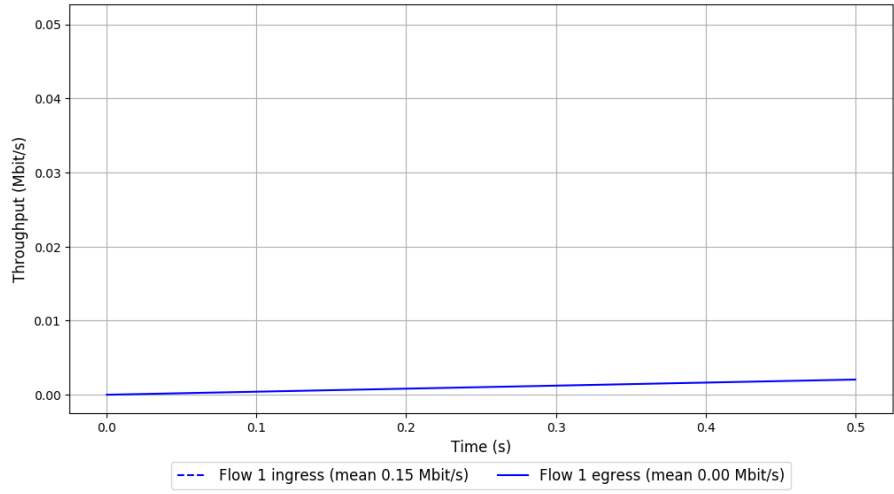
Start at: 2019-12-11 03:41:12

End at: 2019-12-11 03:41:42

Local clock offset: -9.458 ms

Remote clock offset: -10.997 ms

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



Run 4: Statistics of TaoVA-100x

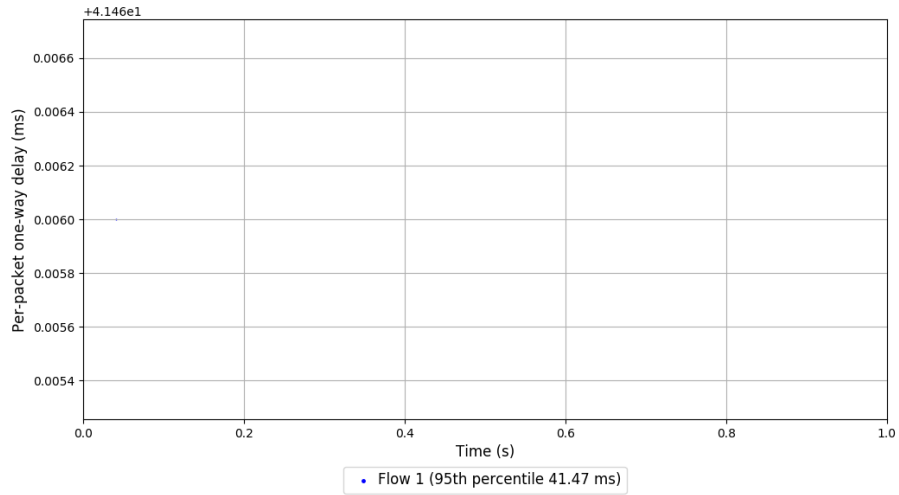
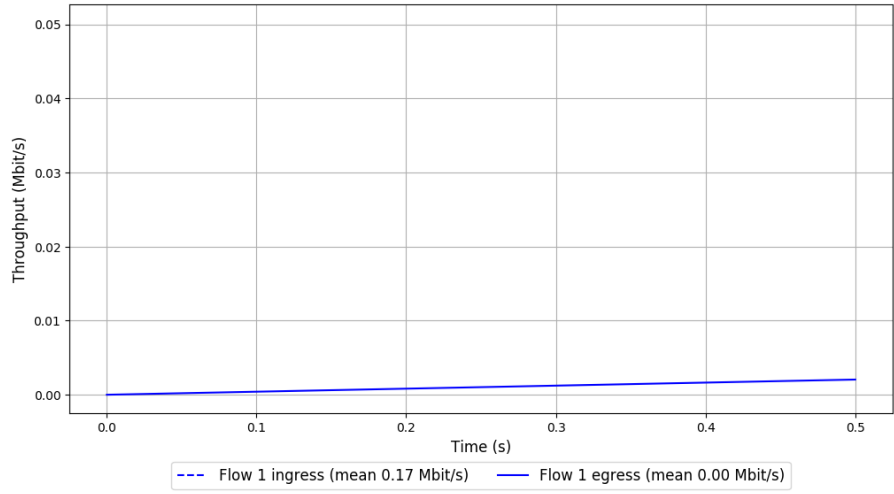
Start at: 2019-12-11 04:09:06

End at: 2019-12-11 04:09:36

Local clock offset: -7.977 ms

Remote clock offset: 0.474 ms

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



Run 5: Statistics of TaoVA-100x

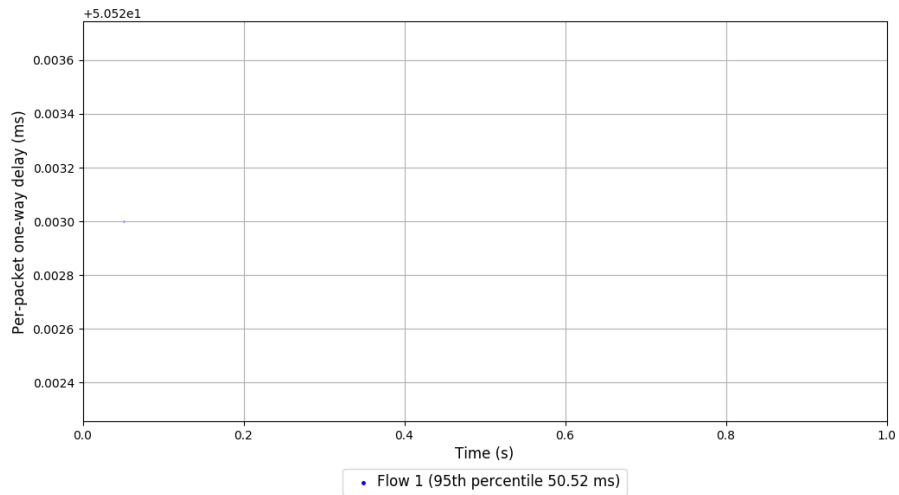
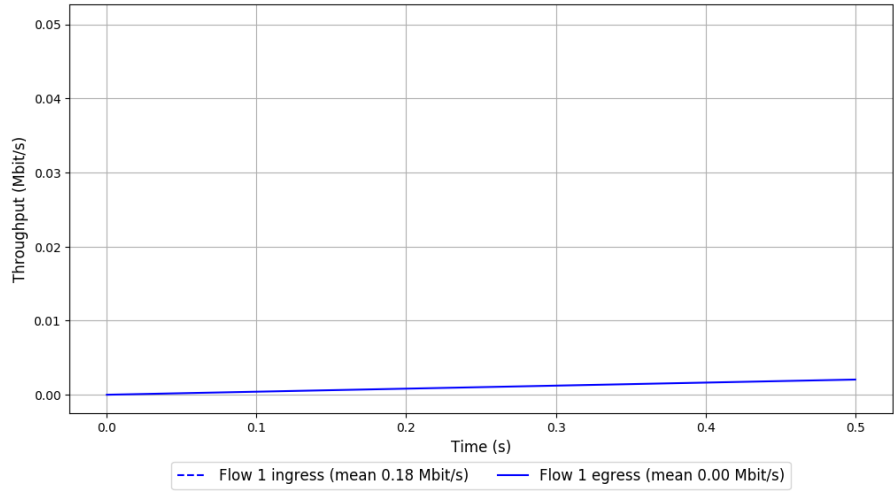
Start at: 2019-12-11 04:37:00

End at: 2019-12-11 04:37:30

Local clock offset: -8.073 ms

Remote clock offset: -6.409 ms

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



Run 1: Statistics of TCP Vegas

Start at: 2019-12-11 03:02:37
End at: 2019-12-11 03:03:07
Local clock offset: -6.796 ms
Remote clock offset: -5.354 ms

Below is generated by plot.py at 2019-12-11 05:08:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.74 Mbit/s

95th percentile per-packet one-way delay: 56.840 ms

Loss rate: 1.34%

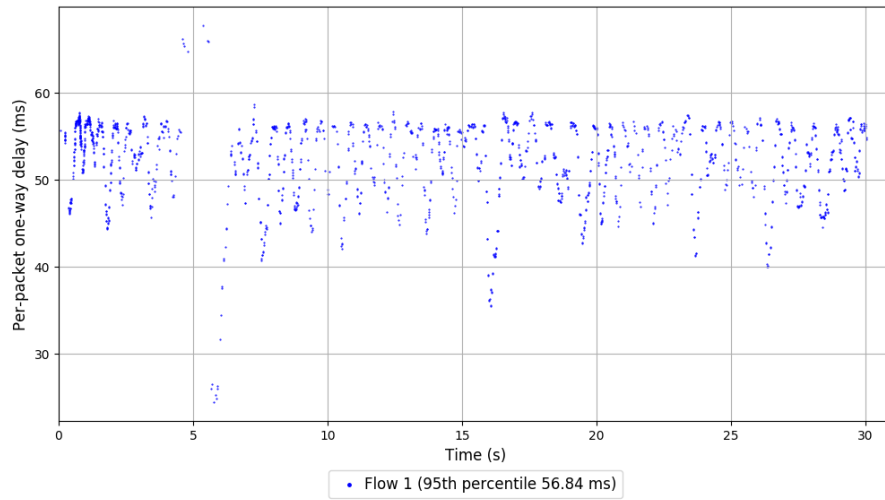
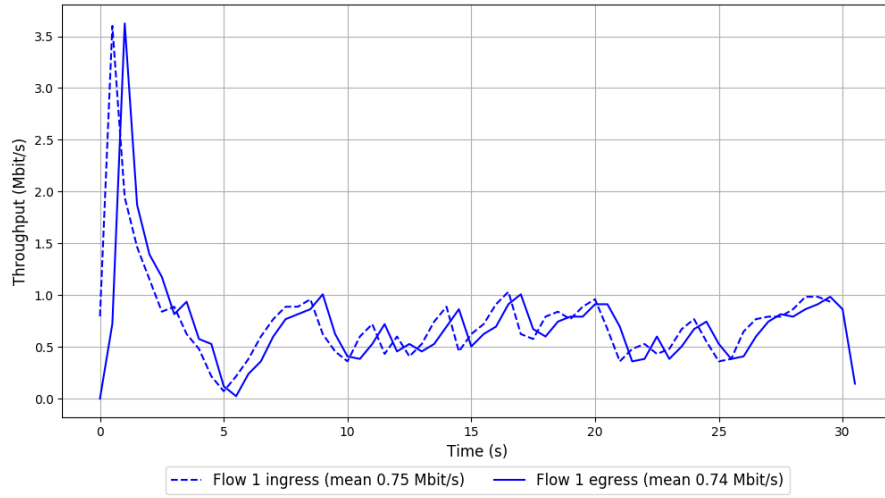
-- Flow 1:

Average throughput: 0.74 Mbit/s

95th percentile per-packet one-way delay: 56.840 ms

Loss rate: 1.34%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-12-11 03:30:44
End at: 2019-12-11 03:31:14
Local clock offset: -8.623 ms
Remote clock offset: -10.228 ms

Below is generated by plot.py at 2019-12-11 05:08:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 58.533 ms

Loss rate: 4.21%

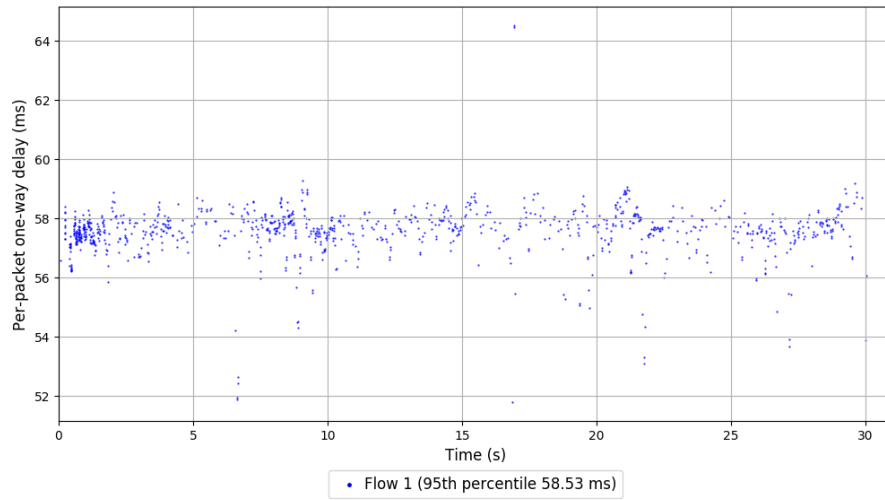
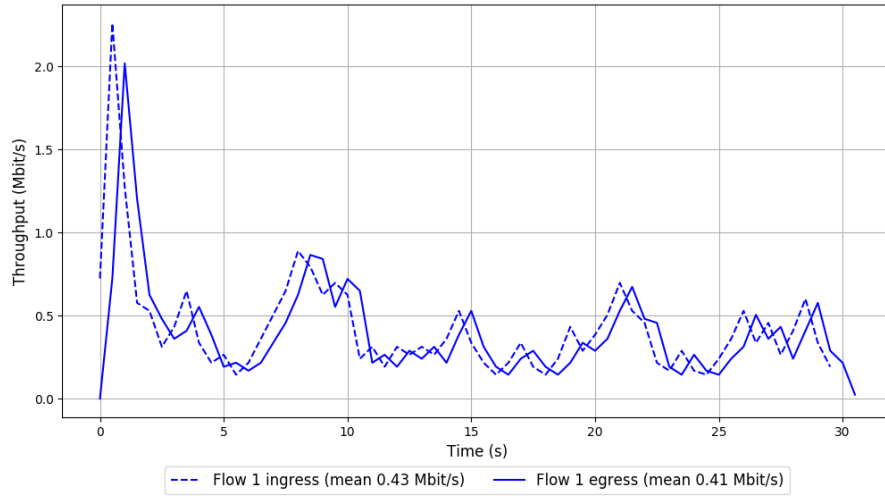
-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 58.533 ms

Loss rate: 4.21%

Run 2: Report of TCP Vegas — Data Link

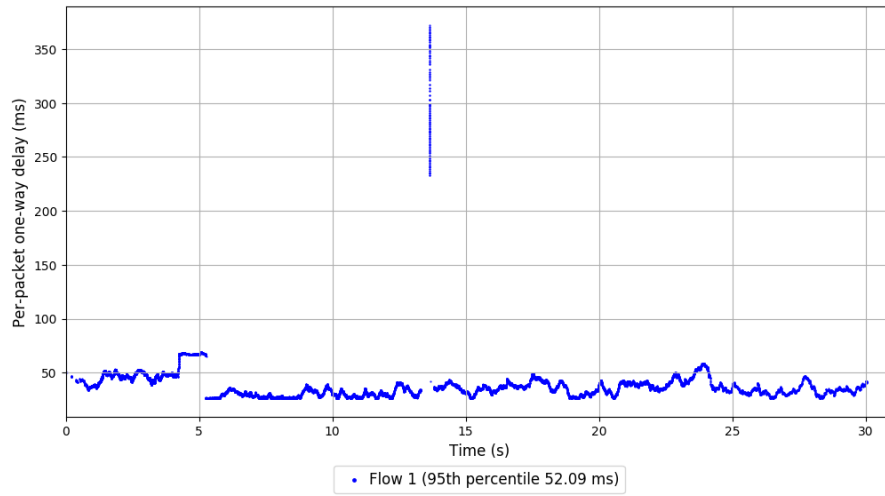
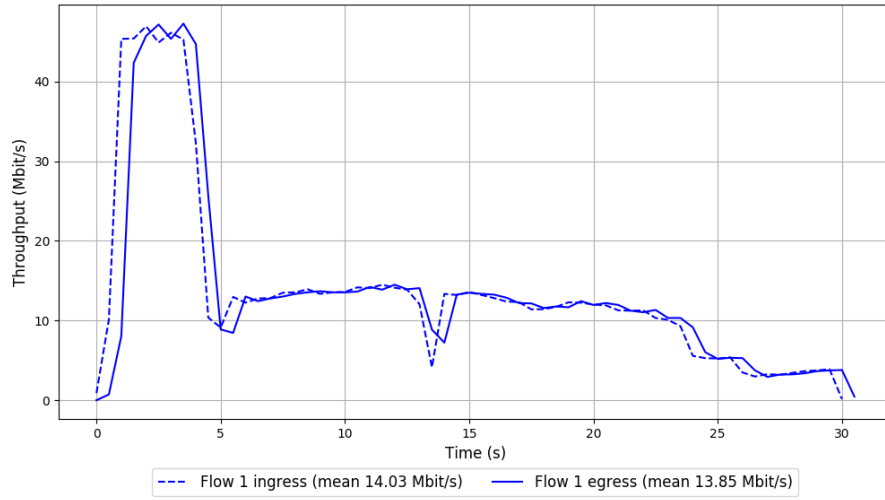


Run 3: Statistics of TCP Vegas

Start at: 2019-12-11 03:58:37
End at: 2019-12-11 03:59:07
Local clock offset: -8.389 ms
Remote clock offset: -9.323 ms

Below is generated by plot.py at 2019-12-11 05:08:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.85 Mbit/s
95th percentile per-packet one-way delay: 52.095 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 13.85 Mbit/s
95th percentile per-packet one-way delay: 52.095 ms
Loss rate: 1.36%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-12-11 04:26:33
End at: 2019-12-11 04:27:03
Local clock offset: -7.176 ms
Remote clock offset: 11.901 ms

Below is generated by plot.py at 2019-12-11 05:08:19

Datalink statistics

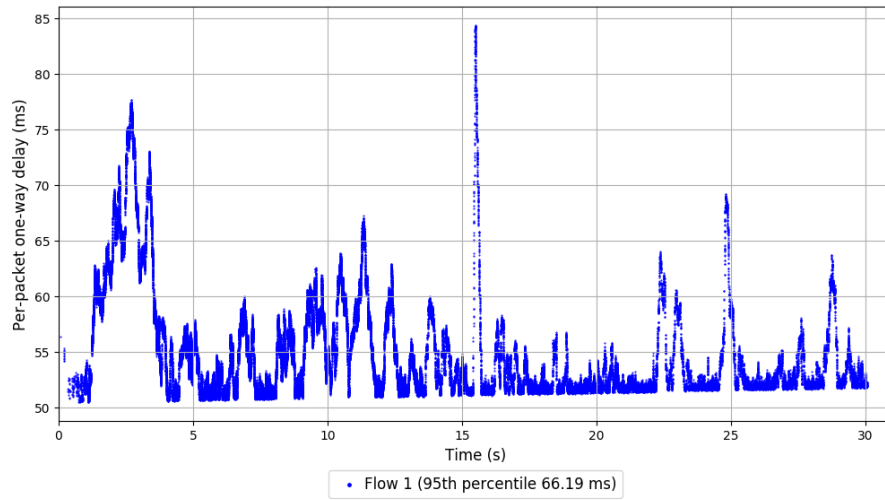
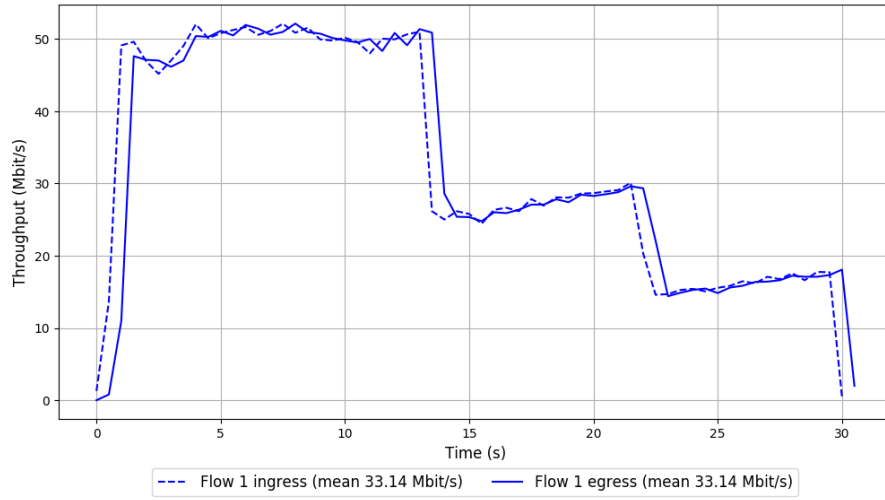
-- Total of 1 flow:

Average throughput: 33.14 Mbit/s
95th percentile per-packet one-way delay: 66.194 ms
Loss rate: 0.01%

-- Flow 1:

Average throughput: 33.14 Mbit/s
95th percentile per-packet one-way delay: 66.194 ms
Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-12-11 04:54:26
End at: 2019-12-11 04:54:56
Local clock offset: -6.865 ms
Remote clock offset: -17.51 ms

Below is generated by plot.py at 2019-12-11 05:08:36

Datalink statistics

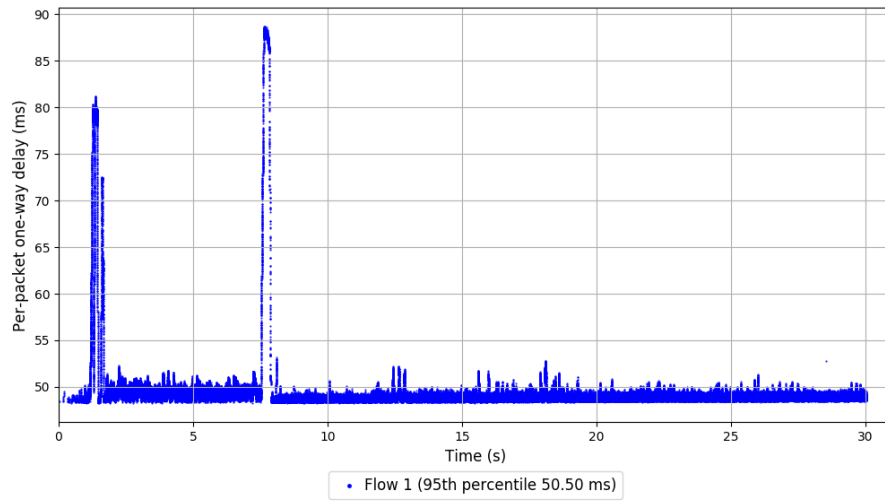
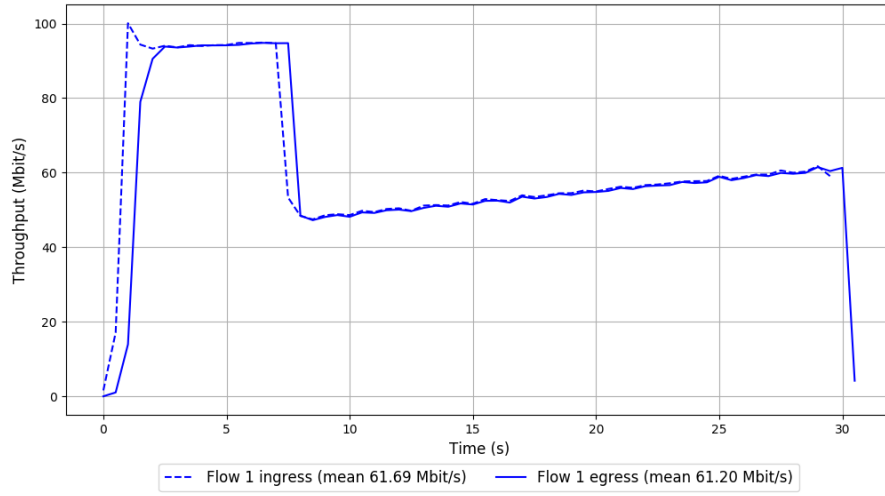
-- Total of 1 flow:

Average throughput: 61.20 Mbit/s
95th percentile per-packet one-way delay: 50.502 ms
Loss rate: 0.80%

-- Flow 1:

Average throughput: 61.20 Mbit/s
95th percentile per-packet one-way delay: 50.502 ms
Loss rate: 0.80%

Run 5: Report of TCP Vegas — Data Link

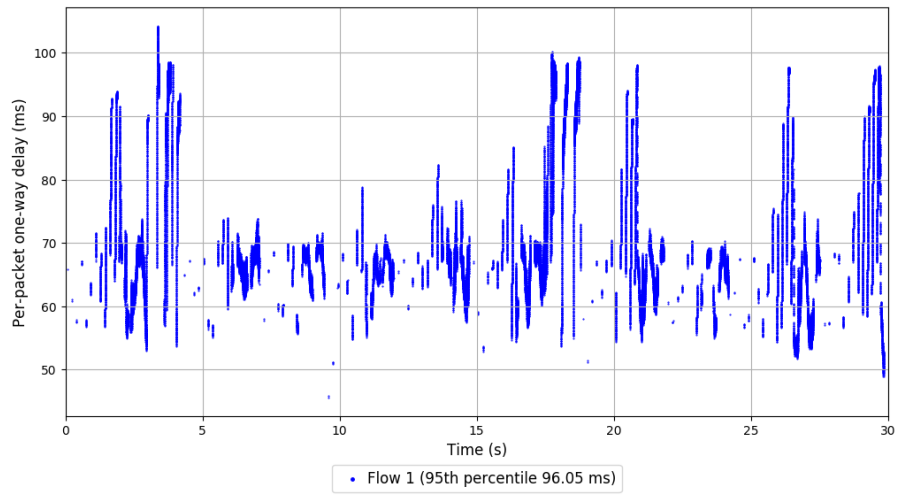
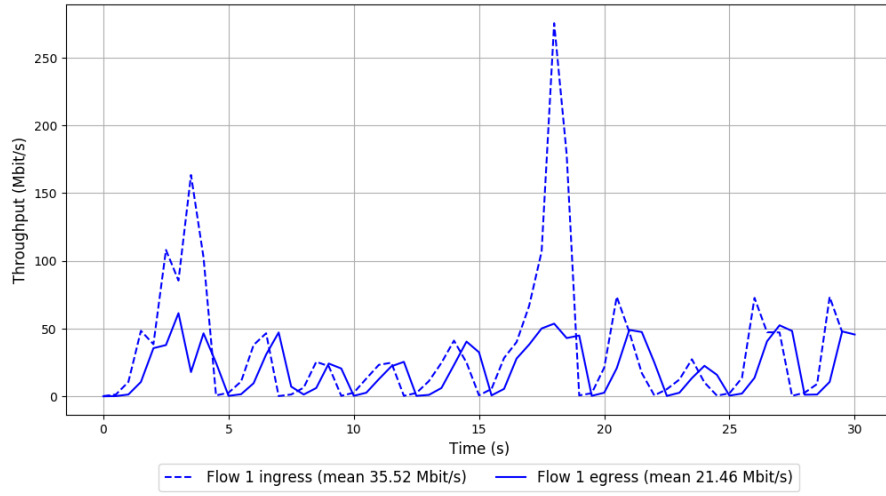


Run 1: Statistics of Verus

Start at: 2019-12-11 03:06:01
End at: 2019-12-11 03:06:31
Local clock offset: -6.898 ms
Remote clock offset: -3.778 ms

Below is generated by plot.py at 2019-12-11 05:08:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 21.46 Mbit/s
95th percentile per-packet one-way delay: 96.054 ms
Loss rate: 39.61%
-- Flow 1:
Average throughput: 21.46 Mbit/s
95th percentile per-packet one-way delay: 96.054 ms
Loss rate: 39.61%

Run 1: Report of Verus — Data Link

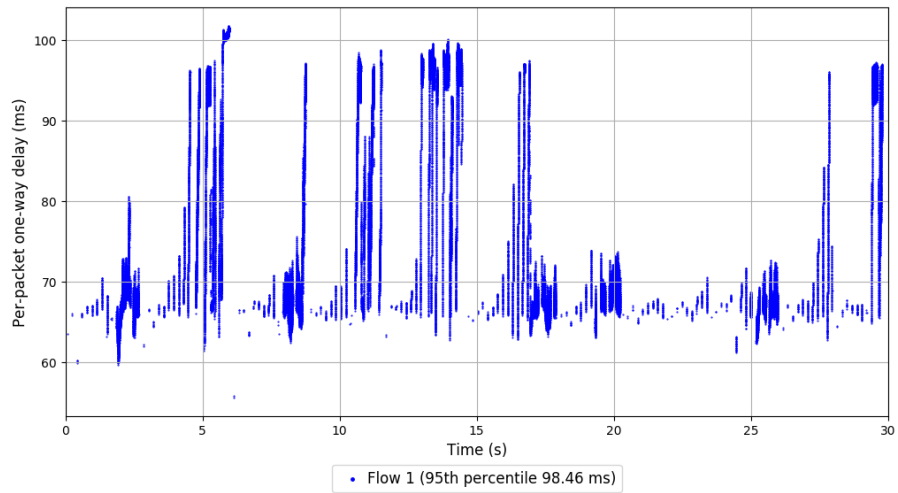
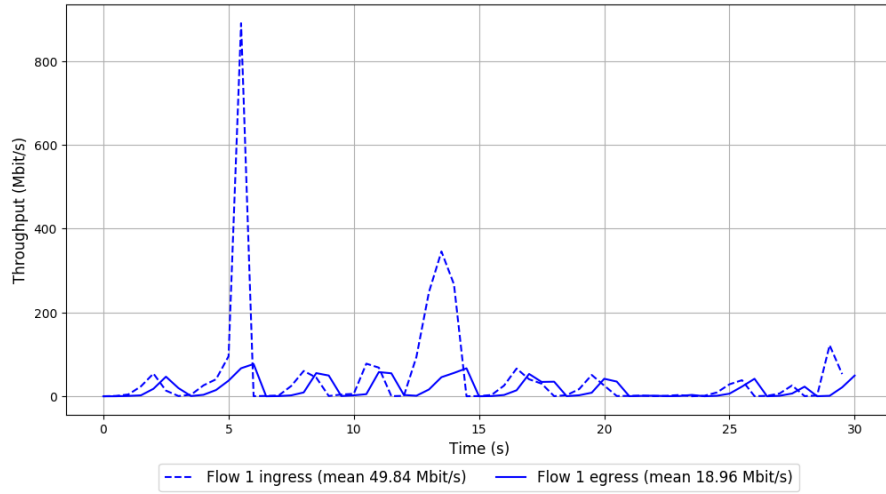


Run 2: Statistics of Verus

Start at: 2019-12-11 03:34:08
End at: 2019-12-11 03:34:38
Local clock offset: -9.627 ms
Remote clock offset: -10.774 ms

Below is generated by plot.py at 2019-12-11 05:08:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 18.96 Mbit/s
95th percentile per-packet one-way delay: 98.458 ms
Loss rate: 61.92%
-- Flow 1:
Average throughput: 18.96 Mbit/s
95th percentile per-packet one-way delay: 98.458 ms
Loss rate: 61.92%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

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

End at: 2019-12-11 04:02:32

Local clock offset: -7.787 ms

Remote clock offset: -4.55 ms

Below is generated by plot.py at 2019-12-11 05:08:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.02 Mbit/s

95th percentile per-packet one-way delay: 79.038 ms

Loss rate: 63.39%

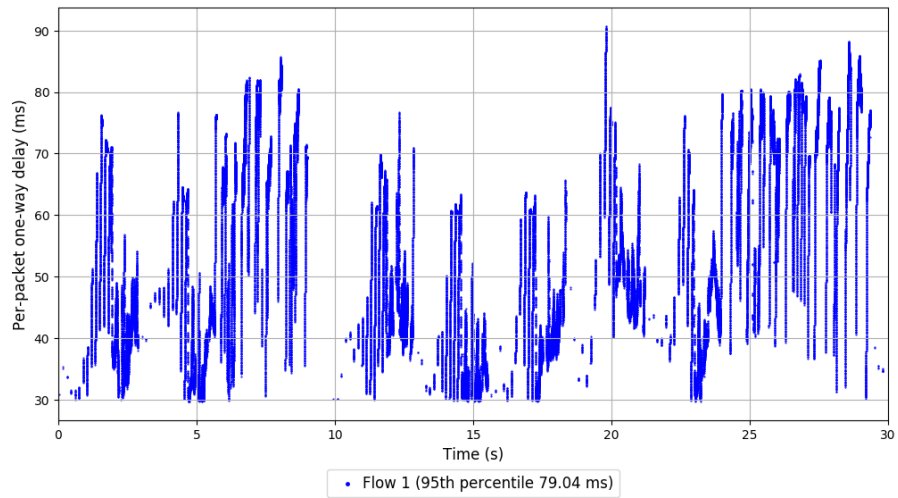
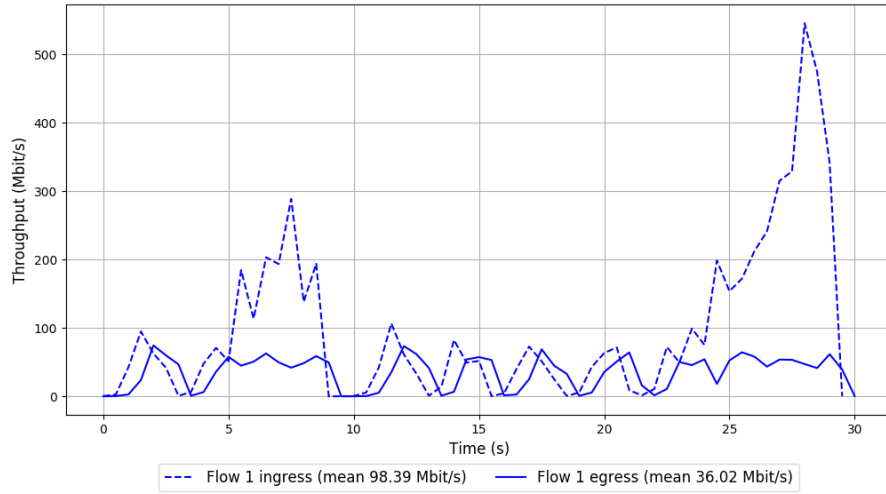
-- Flow 1:

Average throughput: 36.02 Mbit/s

95th percentile per-packet one-way delay: 79.038 ms

Loss rate: 63.39%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-12-11 04:29:56

End at: 2019-12-11 04:30:26

Local clock offset: -7.919 ms

Remote clock offset: 4.388 ms

Below is generated by plot.py at 2019-12-11 05:08:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.86 Mbit/s

95th percentile per-packet one-way delay: 95.527 ms

Loss rate: 85.58%

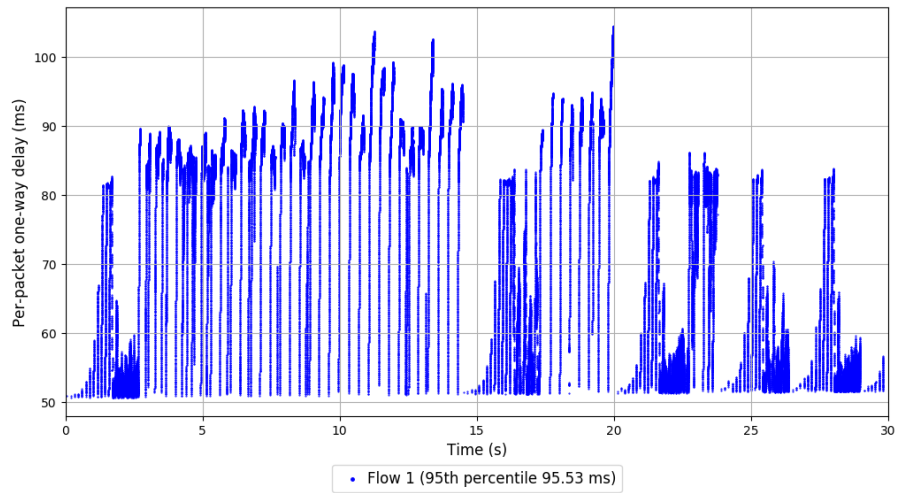
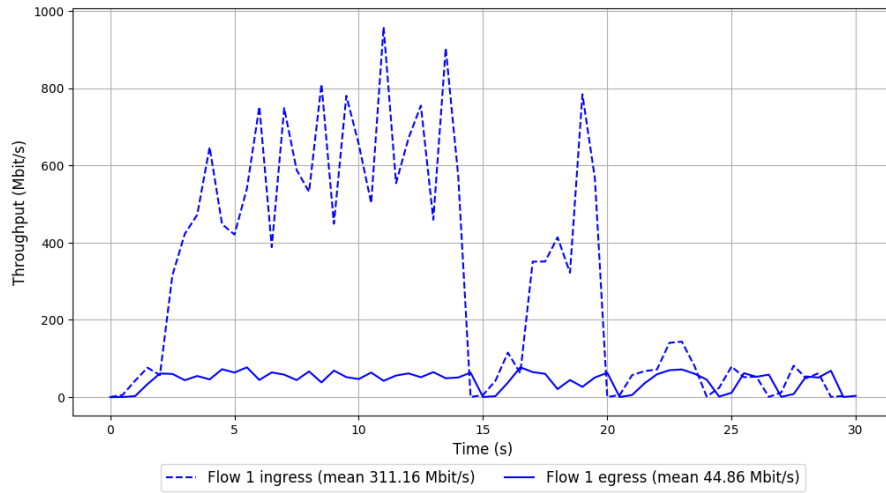
-- Flow 1:

Average throughput: 44.86 Mbit/s

95th percentile per-packet one-way delay: 95.527 ms

Loss rate: 85.58%

Run 4: Report of Verus — Data Link

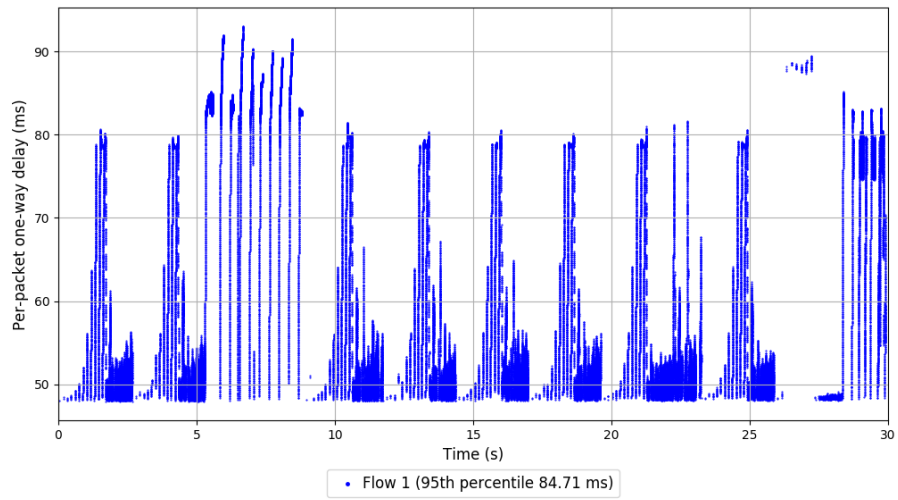
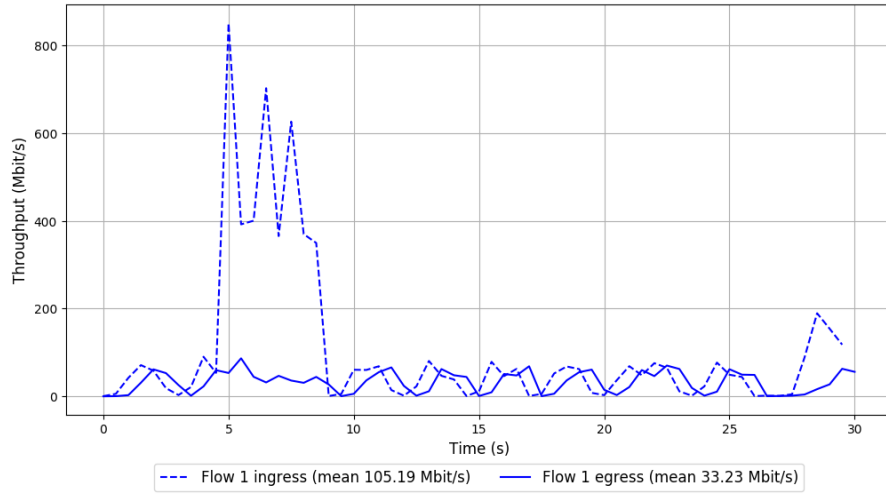


Run 5: Statistics of Verus

Start at: 2019-12-11 04:57:50
End at: 2019-12-11 04:58:20
Local clock offset: -7.509 ms
Remote clock offset: -18.806 ms

Below is generated by plot.py at 2019-12-11 05:08:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 33.23 Mbit/s
95th percentile per-packet one-way delay: 84.710 ms
Loss rate: 68.39%
-- Flow 1:
Average throughput: 33.23 Mbit/s
95th percentile per-packet one-way delay: 84.710 ms
Loss rate: 68.39%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-12-11 02:47:29
End at: 2019-12-11 02:47:59
Local clock offset: -8.923 ms
Remote clock offset: -3.905 ms

Below is generated by plot.py at 2019-12-11 05:08:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 57.867 ms

Loss rate: 1.81%

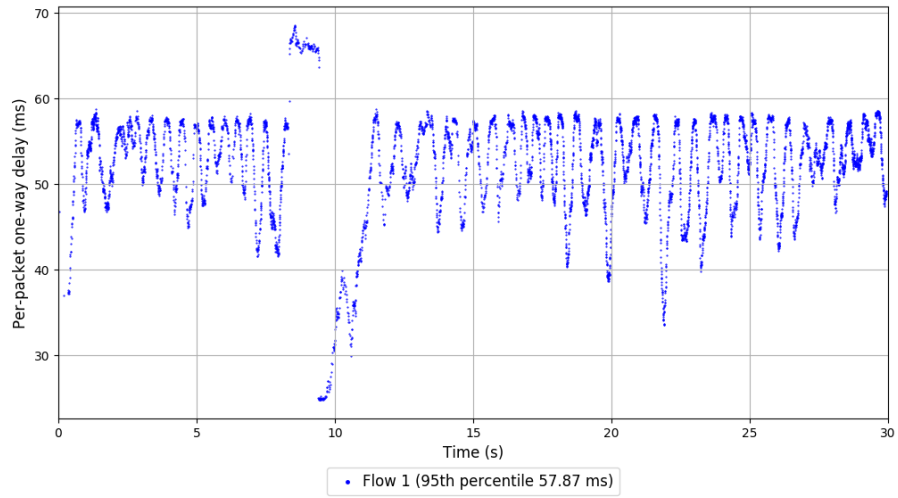
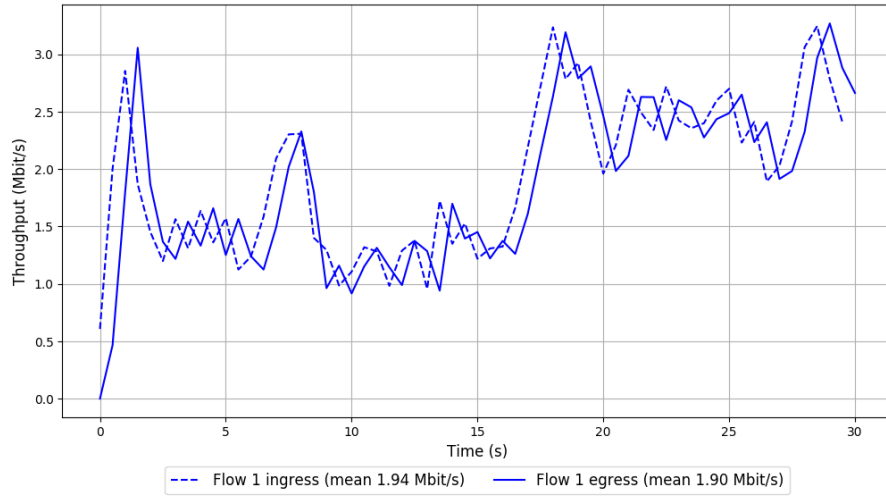
-- Flow 1:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 57.867 ms

Loss rate: 1.81%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-12-11 03:15:20

End at: 2019-12-11 03:15:50

Local clock offset: -8.029 ms

Remote clock offset: -4.109 ms

Below is generated by plot.py at 2019-12-11 05:08:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.15 Mbit/s

95th percentile per-packet one-way delay: 64.831 ms

Loss rate: 2.12%

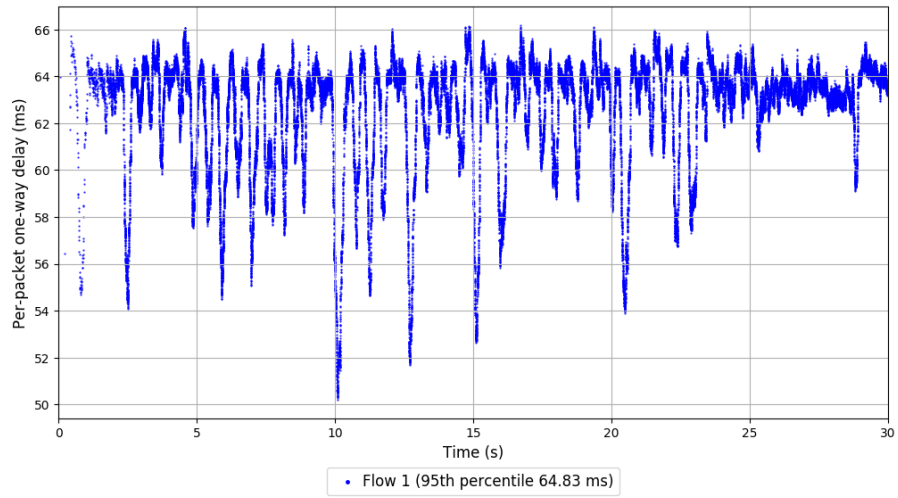
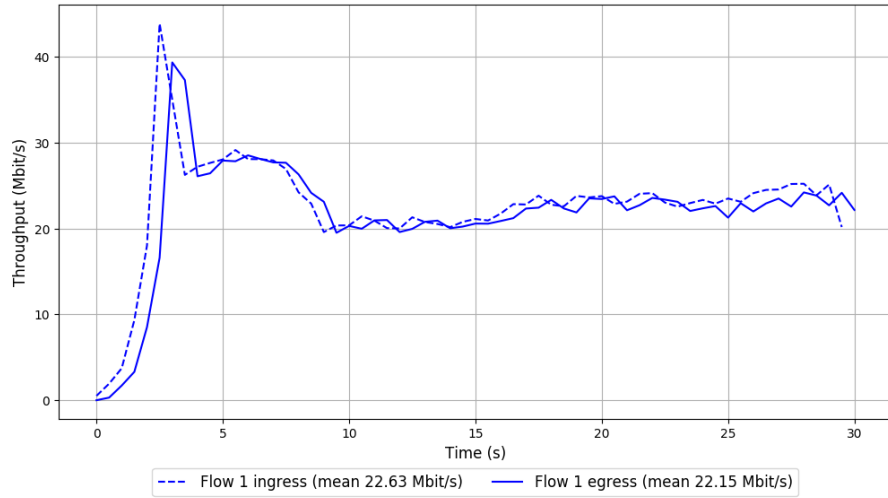
-- Flow 1:

Average throughput: 22.15 Mbit/s

95th percentile per-packet one-way delay: 64.831 ms

Loss rate: 2.12%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-12-11 03:43:29

End at: 2019-12-11 03:43:59

Local clock offset: -8.375 ms

Remote clock offset: -9.068 ms

Below is generated by plot.py at 2019-12-11 05:08:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.20 Mbit/s

95th percentile per-packet one-way delay: 67.293 ms

Loss rate: 1.38%

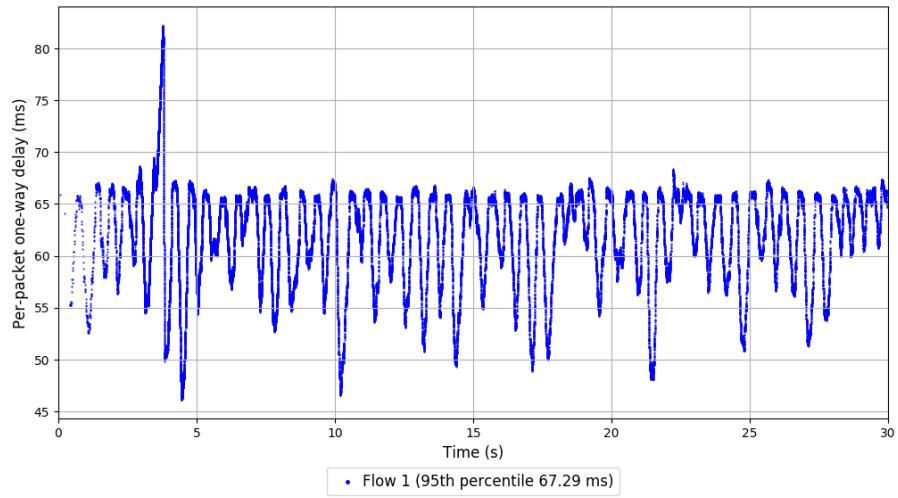
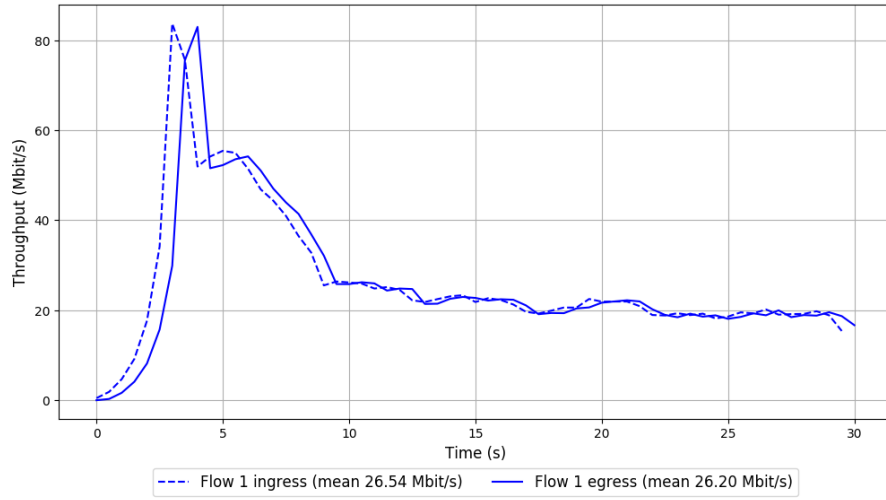
-- Flow 1:

Average throughput: 26.20 Mbit/s

95th percentile per-packet one-way delay: 67.293 ms

Loss rate: 1.38%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

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

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

Local clock offset: -8.401 ms

Remote clock offset: -3.554 ms

Below is generated by plot.py at 2019-12-11 05:08:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.03 Mbit/s

95th percentile per-packet one-way delay: 36.591 ms

Loss rate: 0.01%

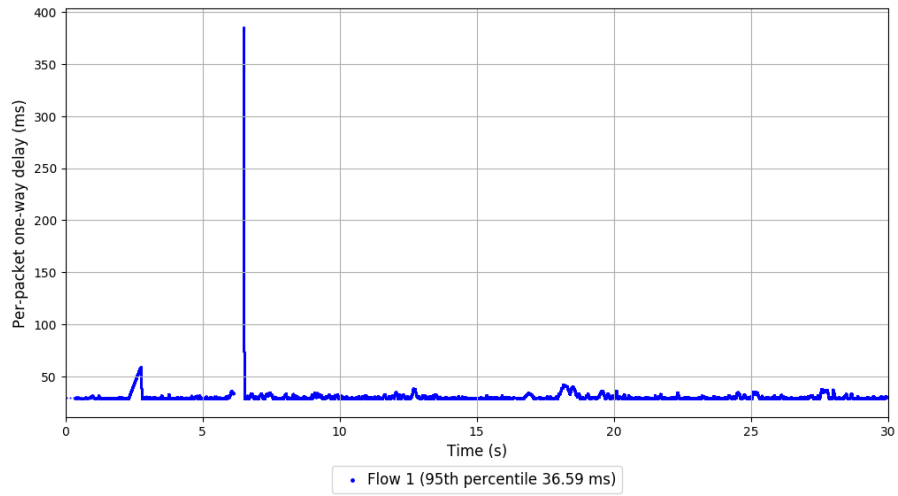
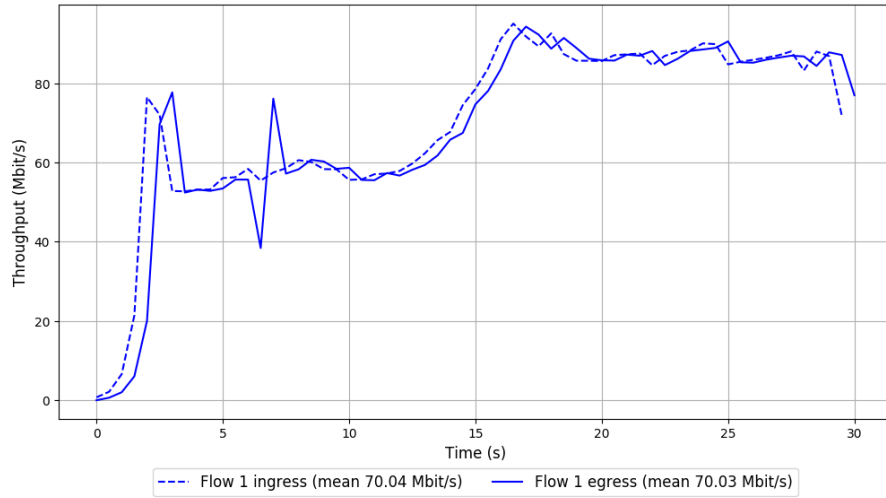
-- Flow 1:

Average throughput: 70.03 Mbit/s

95th percentile per-packet one-way delay: 36.591 ms

Loss rate: 0.01%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-12-11 04:39:16

End at: 2019-12-11 04:39:47

Local clock offset: -7.42 ms

Remote clock offset: -8.791 ms

Below is generated by plot.py at 2019-12-11 05:08:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.79 Mbit/s

95th percentile per-packet one-way delay: 89.392 ms

Loss rate: 1.39%

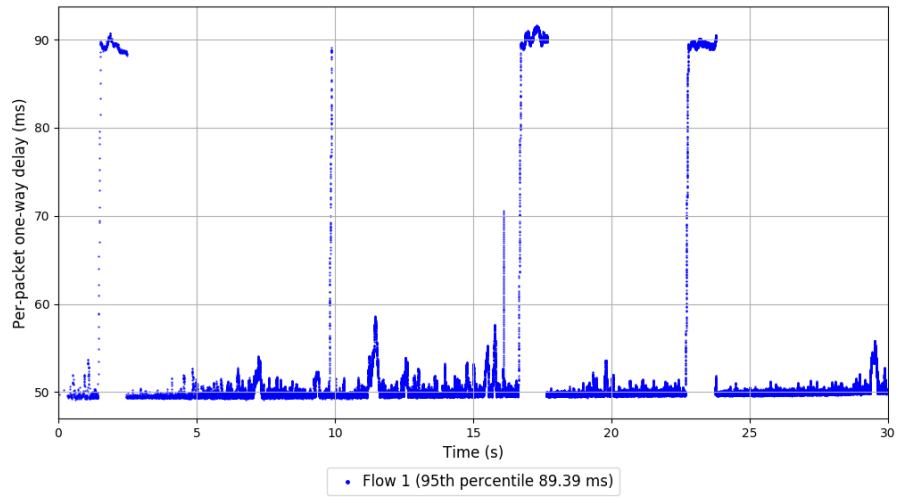
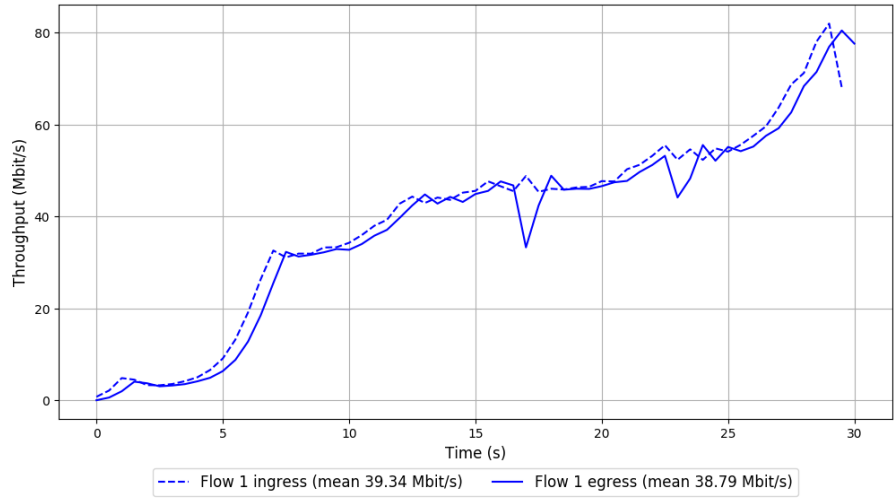
-- Flow 1:

Average throughput: 38.79 Mbit/s

95th percentile per-packet one-way delay: 89.392 ms

Loss rate: 1.39%

Run 5: Report of PCC-Vivace — Data Link

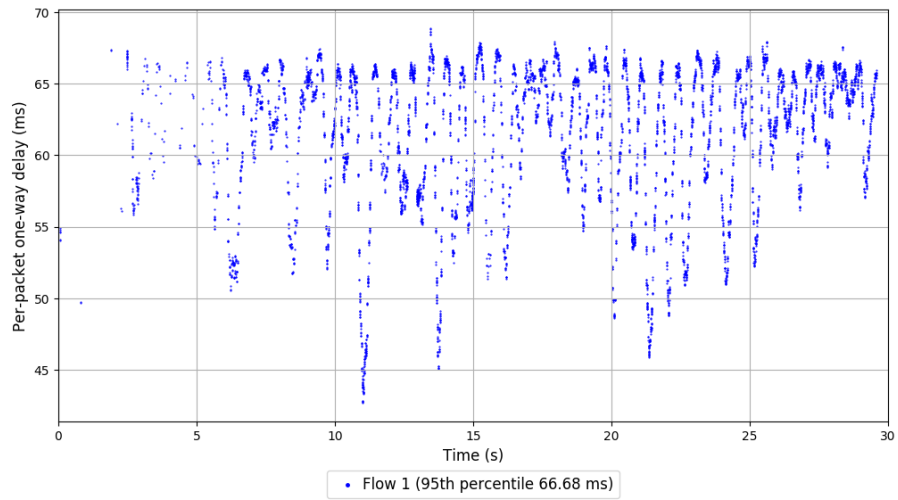
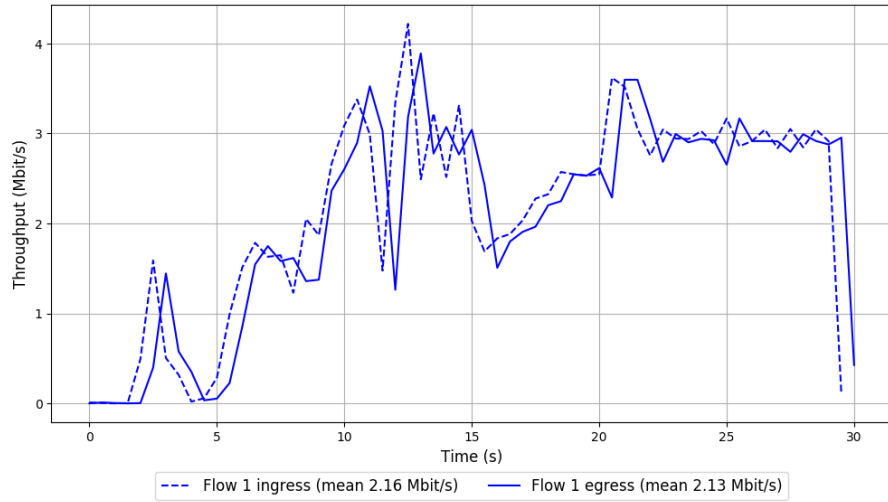


Run 1: Statistics of WebRTC media

Start at: 2019-12-11 03:03:45
End at: 2019-12-11 03:04:15
Local clock offset: -7.504 ms
Remote clock offset: -5.798 ms

Below is generated by plot.py at 2019-12-11 05:08:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 66.683 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 66.683 ms
Loss rate: 1.23%

Run 1: Report of WebRTC media — Data Link

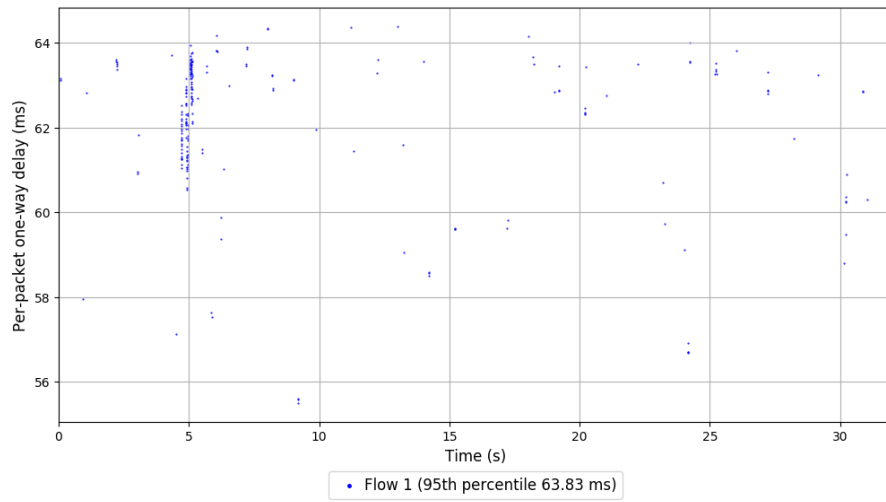
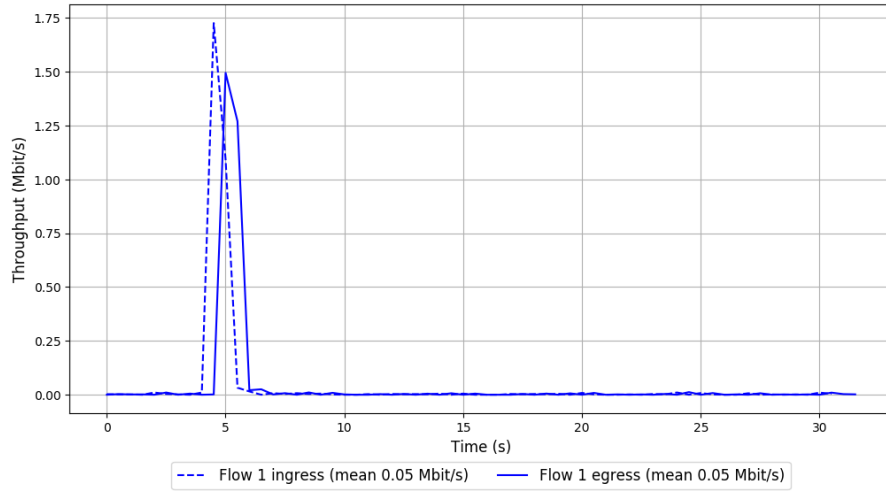


Run 2: Statistics of WebRTC media

Start at: 2019-12-11 03:31:52
End at: 2019-12-11 03:32:22
Local clock offset: -9.404 ms
Remote clock offset: -11.049 ms

Below is generated by plot.py at 2019-12-11 05:08:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.825 ms
Loss rate: 2.06%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.825 ms
Loss rate: 2.06%

Run 2: Report of WebRTC media — Data Link

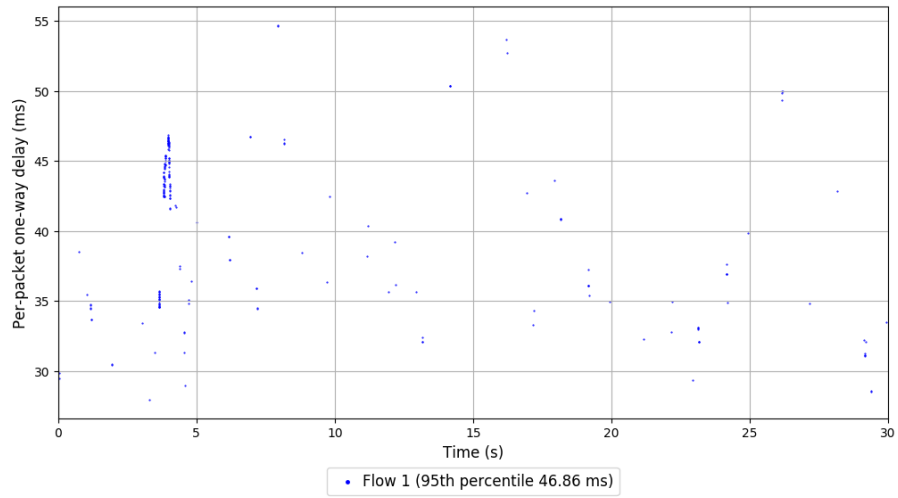
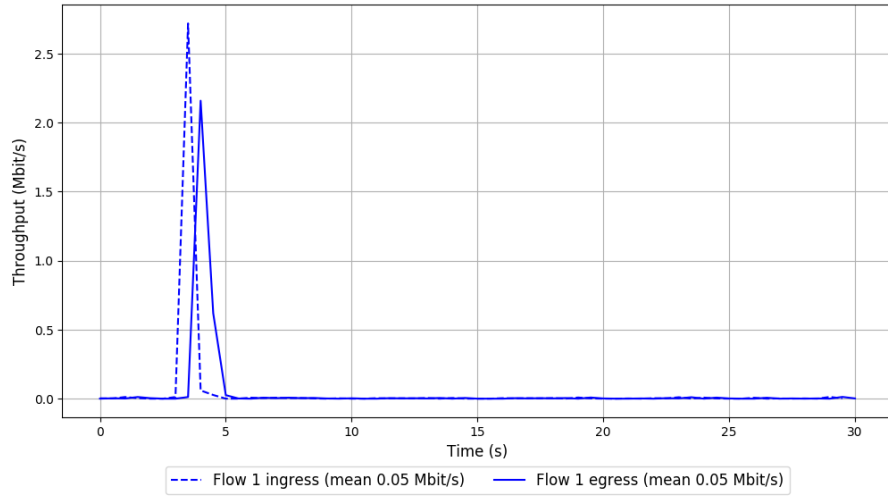


Run 3: Statistics of WebRTC media

Start at: 2019-12-11 03:59:45
End at: 2019-12-11 04:00:16
Local clock offset: -7.778 ms
Remote clock offset: -5.025 ms

Below is generated by plot.py at 2019-12-11 05:08:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 46.858 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 46.858 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-12-11 04:27:41

End at: 2019-12-11 04:28:11

Local clock offset: -7.247 ms

Remote clock offset: 8.618 ms

Below is generated by plot.py at 2019-12-11 05:08:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 50.930 ms

Loss rate: 0.00%

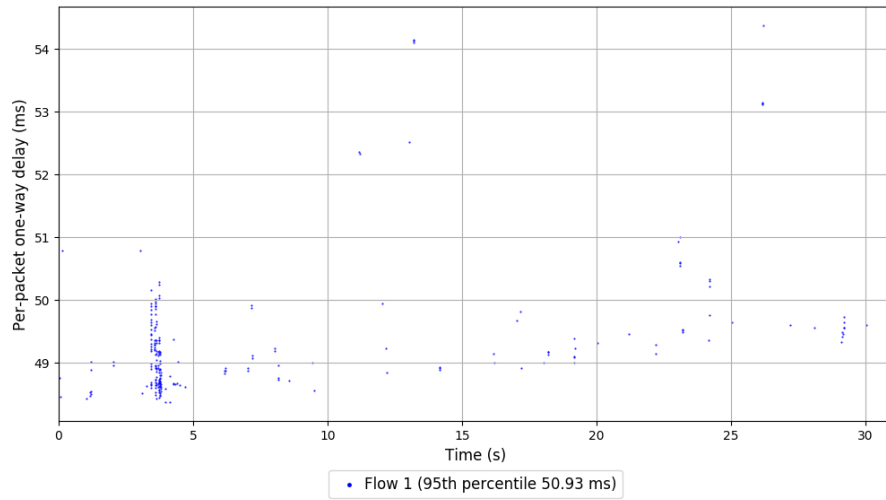
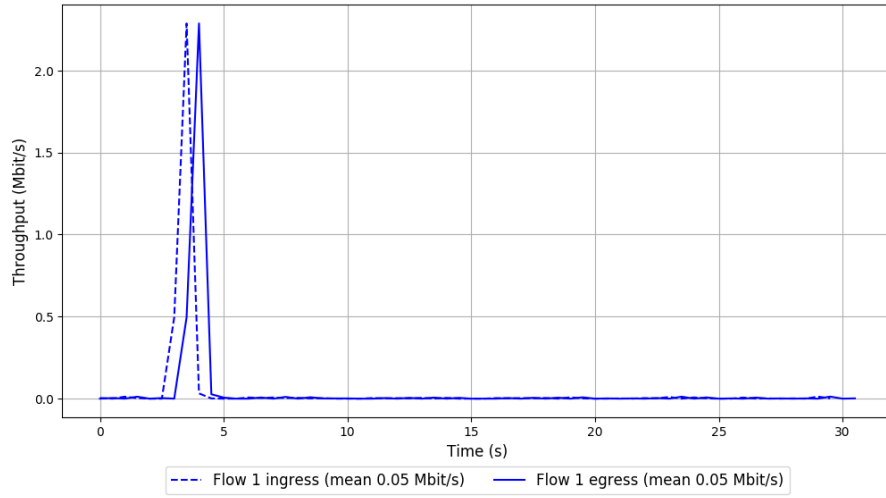
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 50.930 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-12-11 04:55:36
End at: 2019-12-11 04:56:06
Local clock offset: -6.857 ms
Remote clock offset: -18.253 ms

Below is generated by plot.py at 2019-12-11 05:08:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 48.121 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 48.121 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

