

Pantheon Report

Generated at 2020-04-16 06:04:58 (UTC).

Tested in mahimahi: mm-delay 50 mm-link 60mbps.trace 60mbps.trace
--uplink-queue=droptail --uplink-queue-args=packets=1 --downlink-queue=droptail
--downlink-queue-args=packets=1

Repeated the test of 24 congestion control schemes 3 times.

Each test lasted for 30 seconds running 1 flow.

System info:

```
Linux 5.0.0-1031-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 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

scheme	# runs	mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate (%)
		flow 1	flow 1	flow 1
TCP BBR	3	1.53	52.11	17.85
Copa	3	0.01	51.83	90.36
TCP Cubic	3	0.29	51.94	12.57
FillP	3	0.37	52.18	49.33
FillP-Sheep	3	0.90	52.03	46.52
Indigo	3	2.64	52.11	96.95
Indigo-MusesC3	3	1.45	52.14	32.75
Indigo-MusesC5	3	1.15	52.15	46.22
Indigo-MusesD	3	3.27	52.08	42.29
Indigo-MusesT	3	1.36	52.15	25.53
LEDBAT	3	0.10	51.61	36.96
Muses_DecisionTree	3	0.20	52.06	2.03
Muses_DecisionTreeH0	3	0.20	52.02	1.97
Muses_DecisionTreeR0	3	0.20	52.08	1.85
PCC-Allegro	3	6.88	51.99	2.84
PCC-Expr	2	8.72	51.58	97.21
QUIC Cubic	3	3.28	52.07	1.42
SCReAM	3	0.19	51.67	0.19
Sprout	3	0.19	52.14	9.04
TaoVA-100x	3	0.01	51.67	51.91
TCP Vegas	3	0.26	51.97	14.14
Verus	3	1.32	52.01	80.46
PCC-Vivace	3	5.76	52.01	0.45
WebRTC media	0	N/A	N/A	N/A

Run 1: Statistics of TCP BBR

Start at: 2020-04-16 05:20:01

End at: 2020-04-16 05:20:31

Below is generated by plot.py at 2020-04-16 06:00:55

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.06 Mbit/s (1.8% utilization)

95th percentile per-packet one-way delay: 52.026 ms

Loss rate: 10.14%

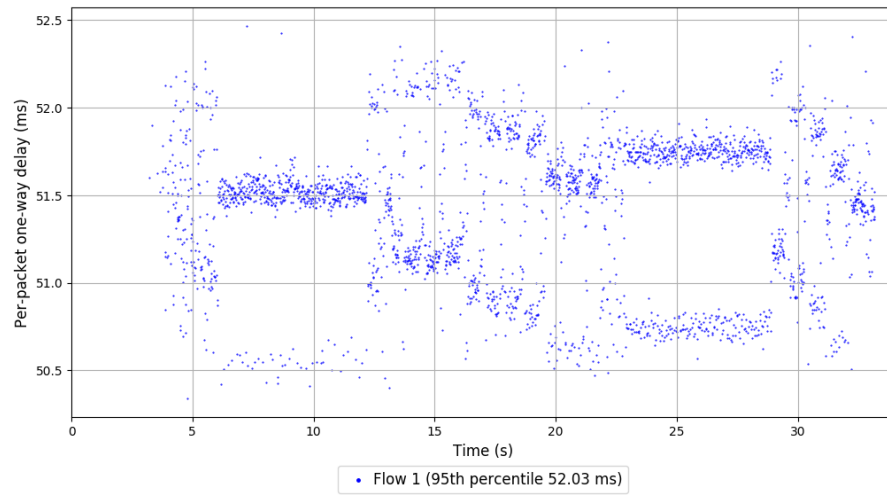
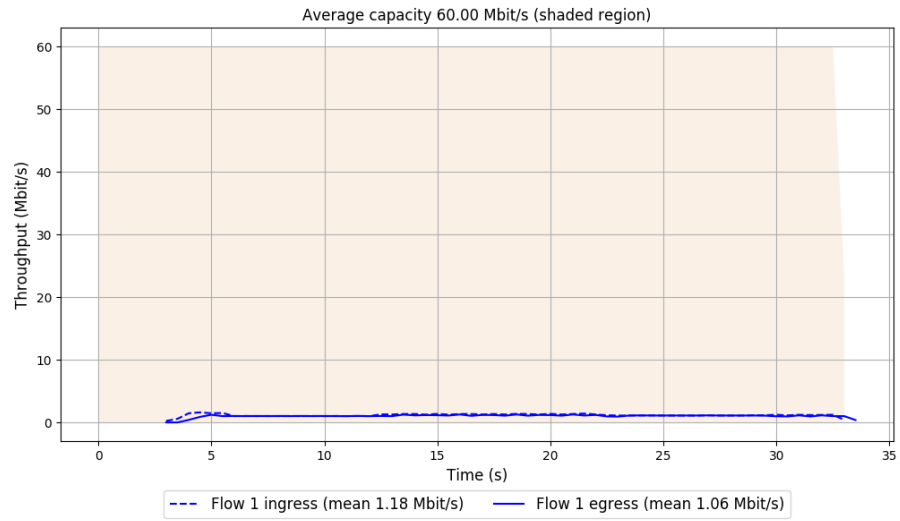
-- Flow 1:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 52.026 ms

Loss rate: 10.14%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2020-04-16 05:34:29

End at: 2020-04-16 05:34:59

Below is generated by plot.py at 2020-04-16 06:00:55

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.08 Mbit/s (1.8% utilization)

95th percentile per-packet one-way delay: 52.103 ms

Loss rate: 11.93%

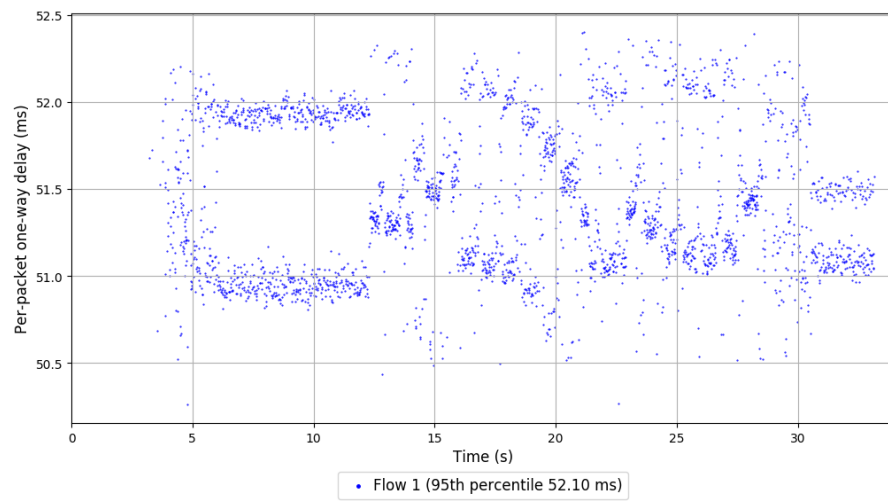
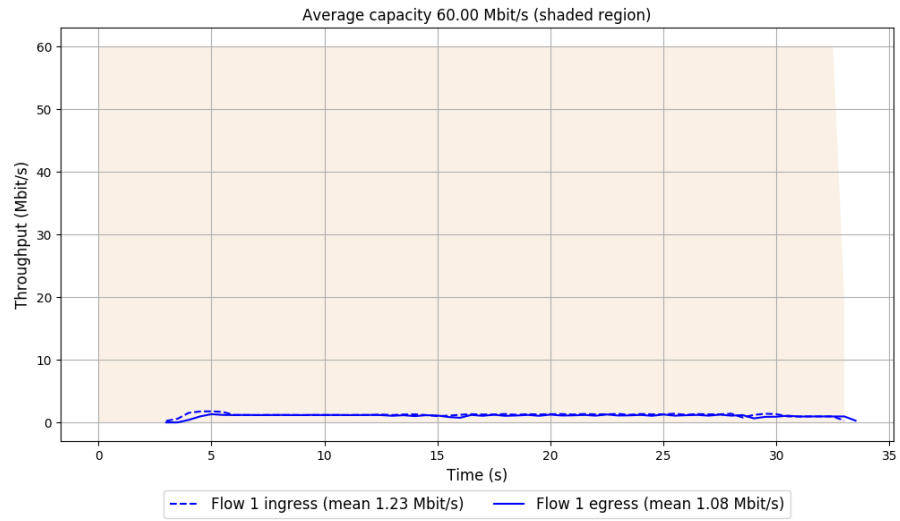
-- Flow 1:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 52.103 ms

Loss rate: 11.93%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2020-04-16 05:48:46

End at: 2020-04-16 05:49:16

Below is generated by plot.py at 2020-04-16 06:00:56

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 2.46 Mbit/s (4.1% utilization)

95th percentile per-packet one-way delay: 52.214 ms

Loss rate: 31.48%

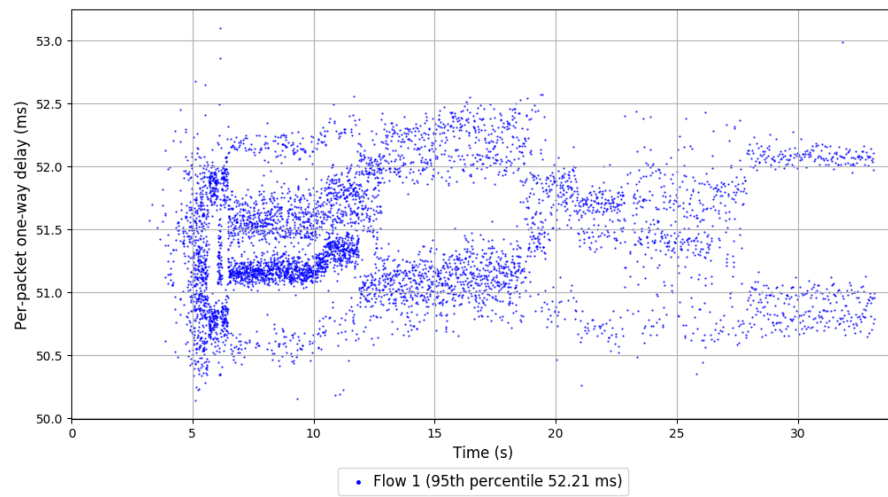
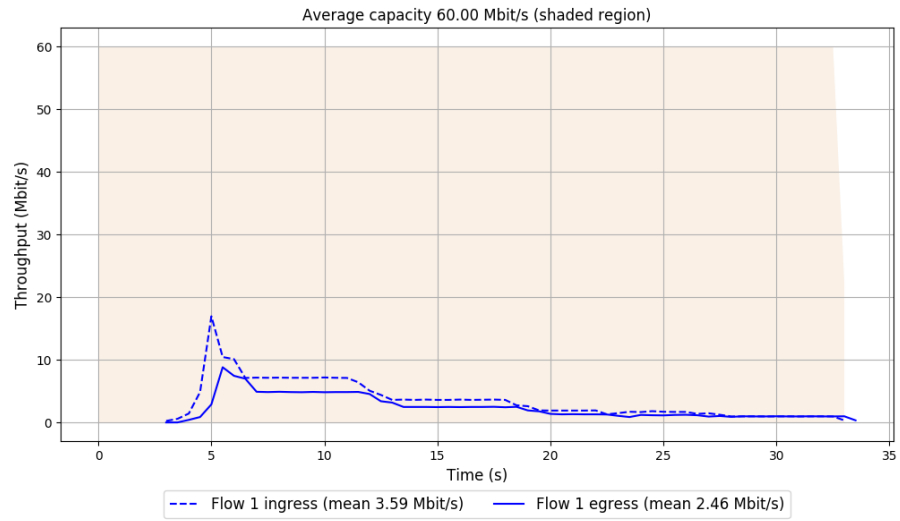
-- Flow 1:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 52.214 ms

Loss rate: 31.48%

Run 3: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2020-04-16 05:20:37

End at: 2020-04-16 05:21:07

Below is generated by plot.py at 2020-04-16 06:00:56

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.01 Mbit/s (0.0% utilization)

95th percentile per-packet one-way delay: 51.865 ms

Loss rate: 90.36%

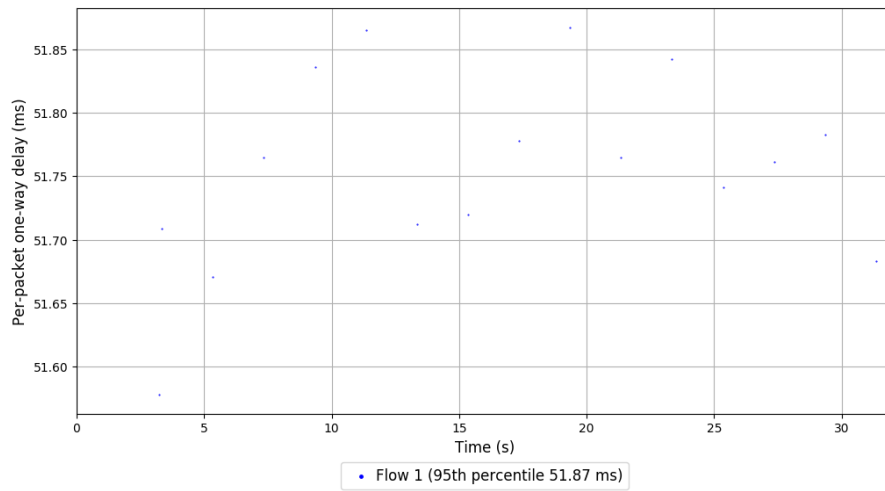
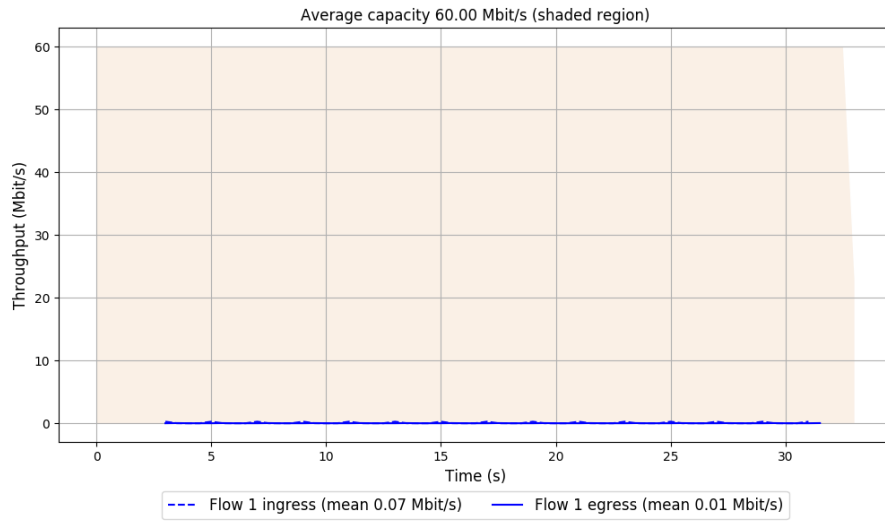
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 51.865 ms

Loss rate: 90.36%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2020-04-16 05:35:04

End at: 2020-04-16 05:35:34

Below is generated by plot.py at 2020-04-16 06:00:56

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.01 Mbit/s (0.0% utilization)

95th percentile per-packet one-way delay: 51.807 ms

Loss rate: 90.36%

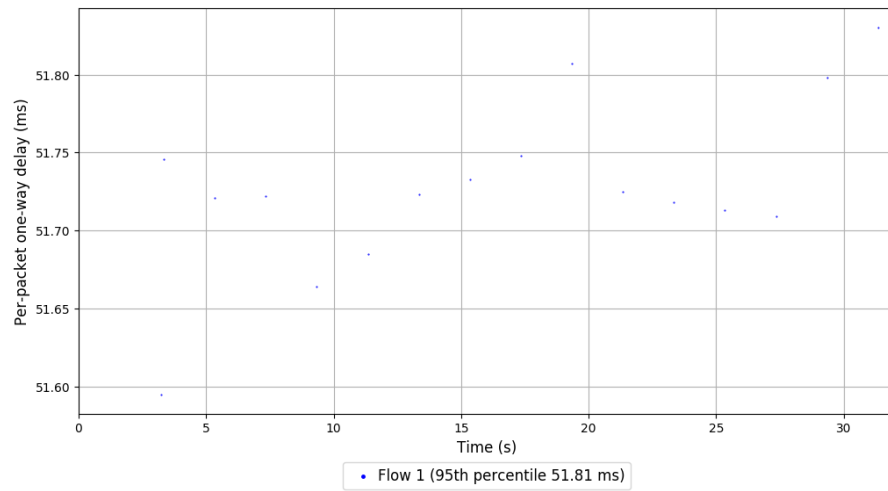
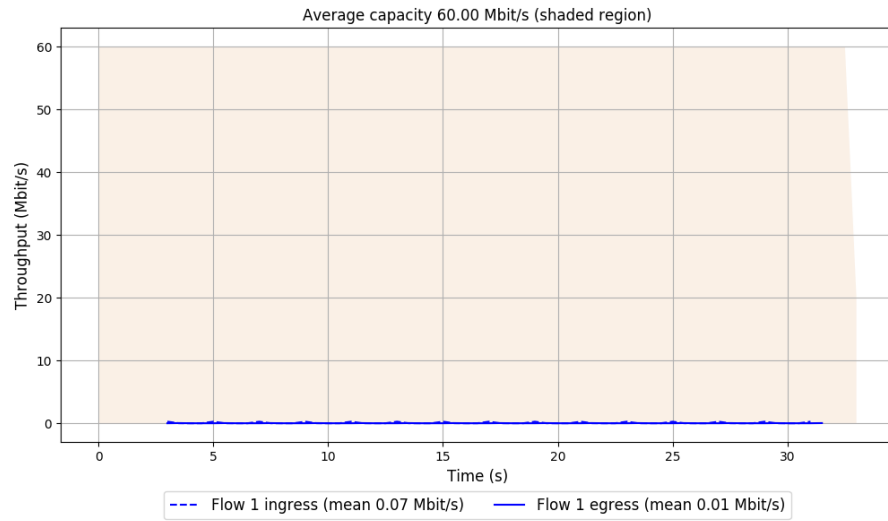
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 51.807 ms

Loss rate: 90.36%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2020-04-16 05:49:22

End at: 2020-04-16 05:49:52

Below is generated by plot.py at 2020-04-16 06:00:56

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.01 Mbit/s (0.0% utilization)

95th percentile per-packet one-way delay: 51.828 ms

Loss rate: 90.36%

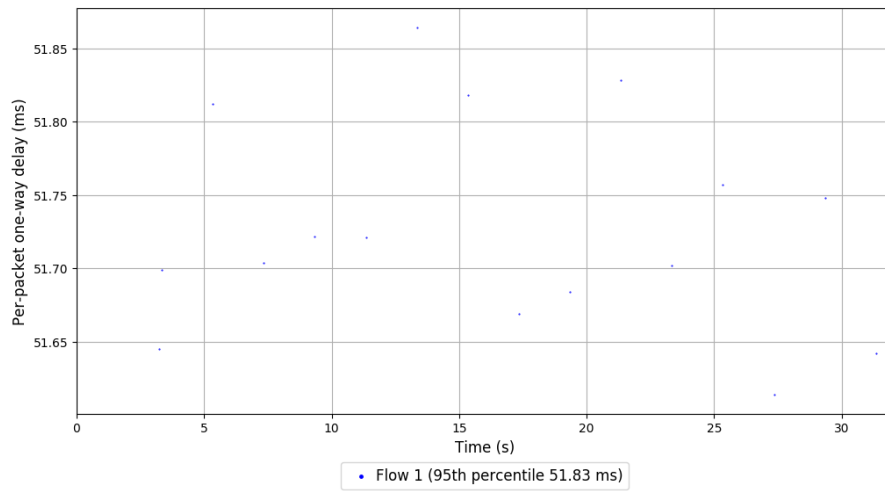
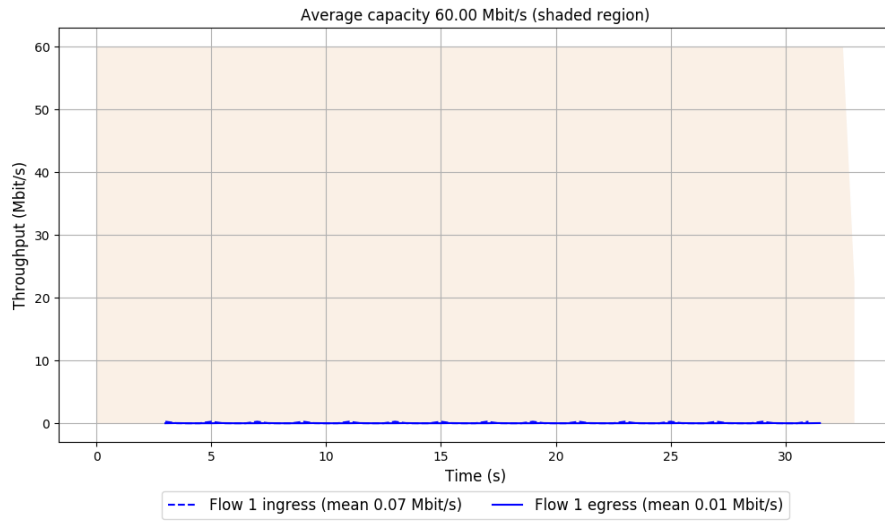
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 51.828 ms

Loss rate: 90.36%

Run 3: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2020-04-16 05:30:20

End at: 2020-04-16 05:30:50

Below is generated by plot.py at 2020-04-16 06:00:56

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.28 Mbit/s (0.5% utilization)

95th percentile per-packet one-way delay: 51.889 ms

Loss rate: 12.81%

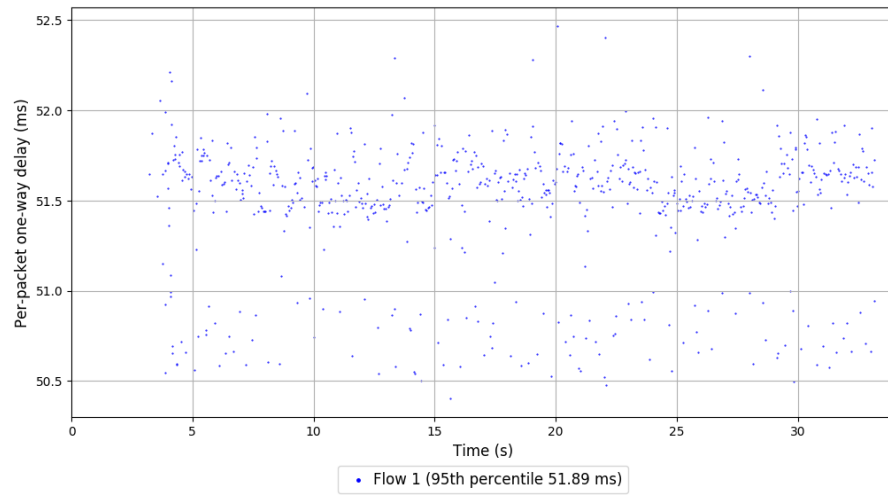
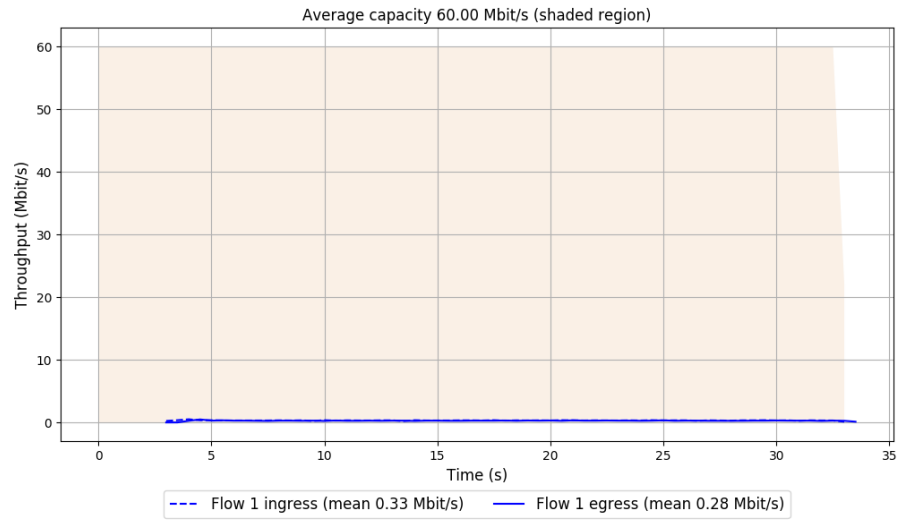
-- Flow 1:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 51.889 ms

Loss rate: 12.81%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2020-04-16 05:44:38

End at: 2020-04-16 05:45:08

Below is generated by plot.py at 2020-04-16 06:00:56

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.29 Mbit/s (0.5% utilization)

95th percentile per-packet one-way delay: 51.896 ms

Loss rate: 12.70%

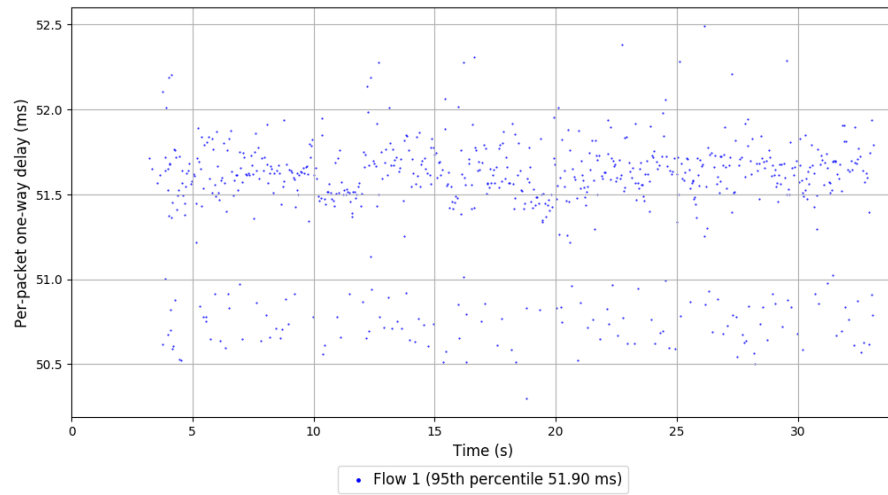
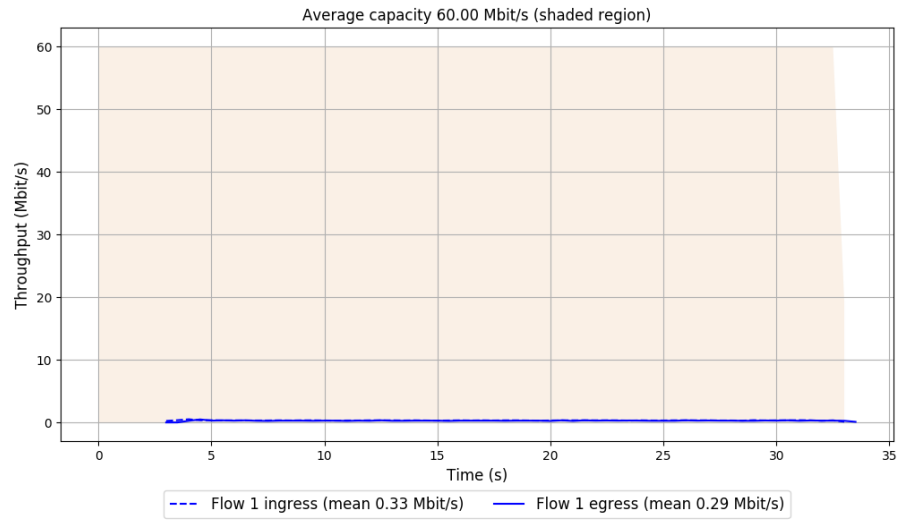
-- Flow 1:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 51.896 ms

Loss rate: 12.70%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2020-04-16 05:59:04

End at: 2020-04-16 05:59:34

Below is generated by plot.py at 2020-04-16 06:01:11

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.29 Mbit/s (0.5% utilization)

95th percentile per-packet one-way delay: 52.044 ms

Loss rate: 12.19%

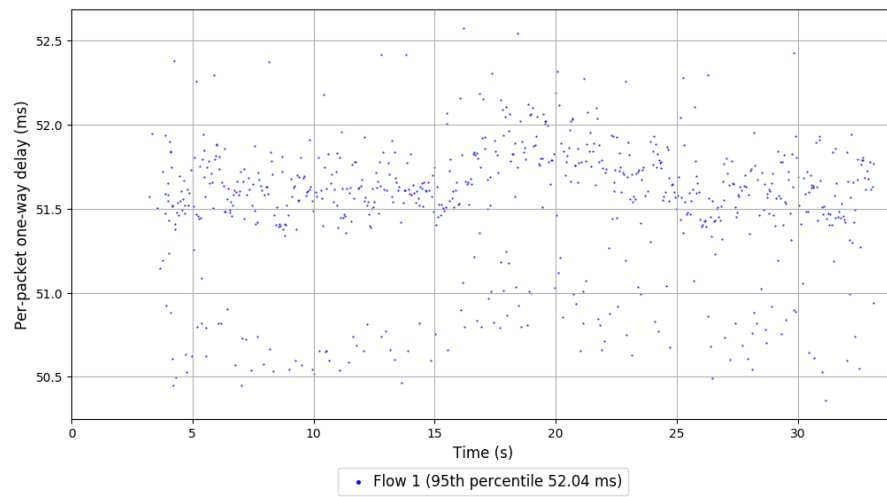
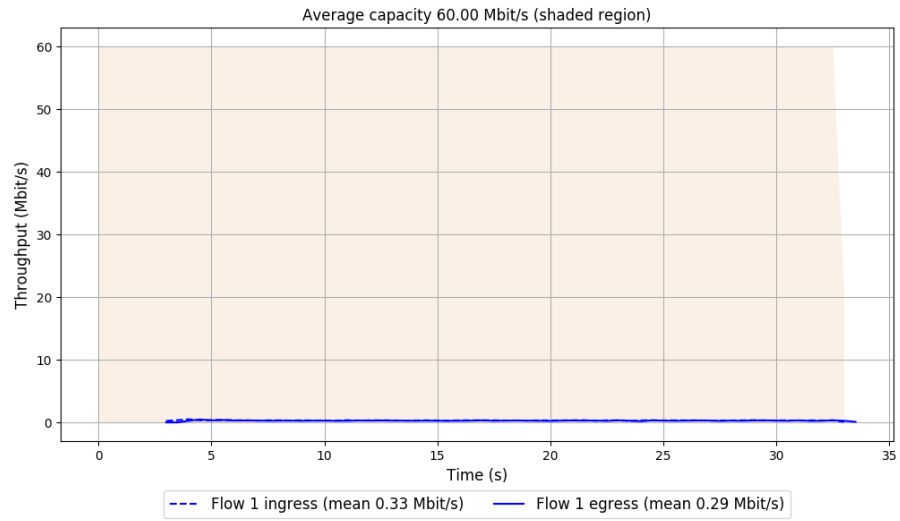
-- Flow 1:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 52.044 ms

Loss rate: 12.19%

Run 3: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2020-04-16 05:17:04

End at: 2020-04-16 05:17:34

Below is generated by plot.py at 2020-04-16 06:01:14

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.37 Mbit/s (0.6% utilization)

95th percentile per-packet one-way delay: 52.011 ms

Loss rate: 49.95%

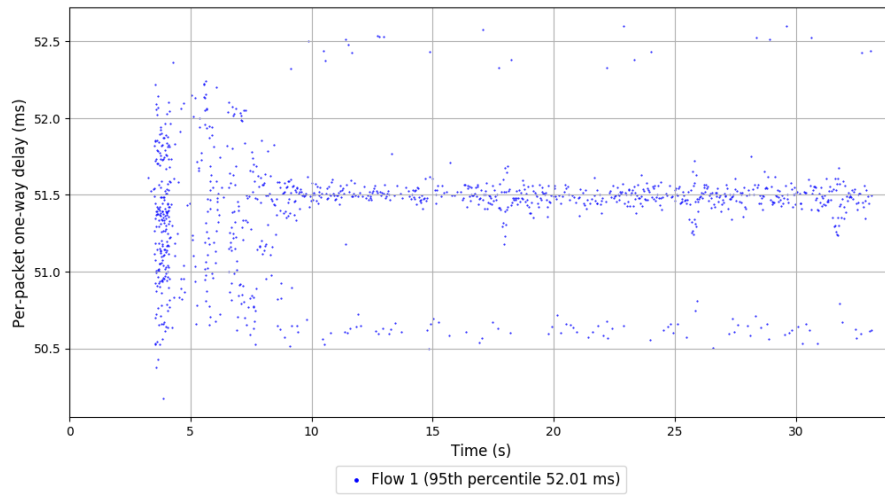
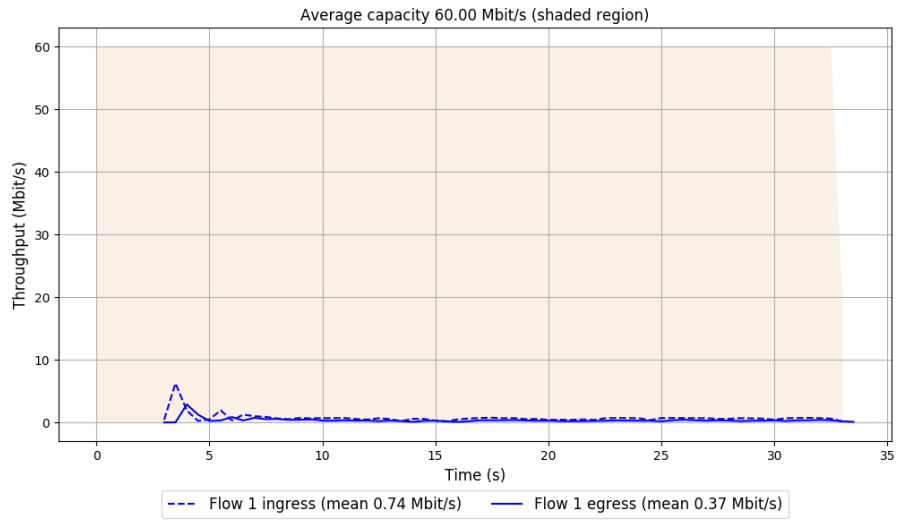
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 52.011 ms

Loss rate: 49.95%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2020-04-16 05:31:31

End at: 2020-04-16 05:32:01

Below is generated by plot.py at 2020-04-16 06:01:14

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.37 Mbit/s (0.6% utilization)

95th percentile per-packet one-way delay: 52.393 ms

Loss rate: 47.81%

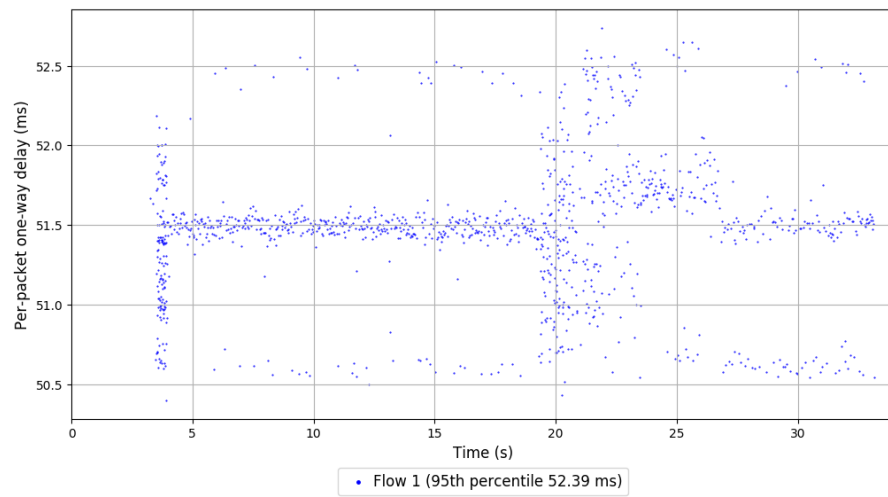
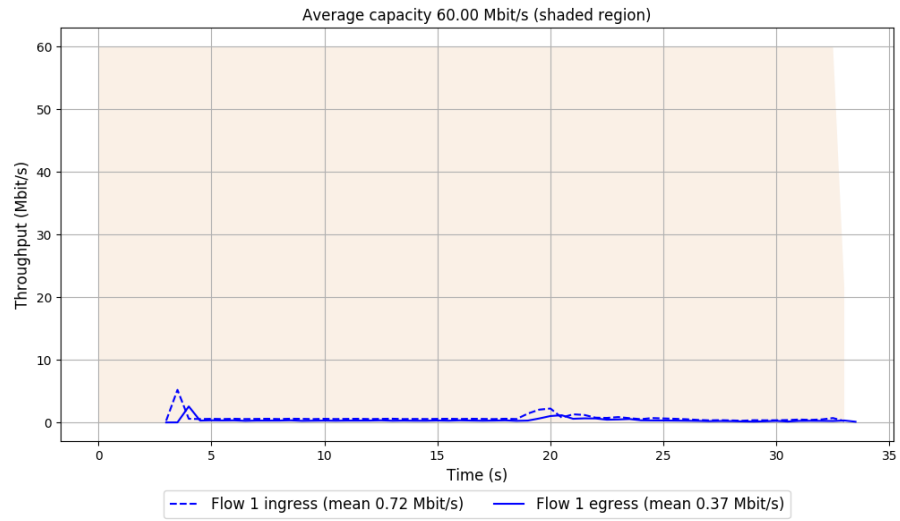
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 52.393 ms

Loss rate: 47.81%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2020-04-16 05:45:49

End at: 2020-04-16 05:46:19

Below is generated by plot.py at 2020-04-16 06:01:16

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.36 Mbit/s (0.6% utilization)

95th percentile per-packet one-way delay: 52.121 ms

Loss rate: 50.22%

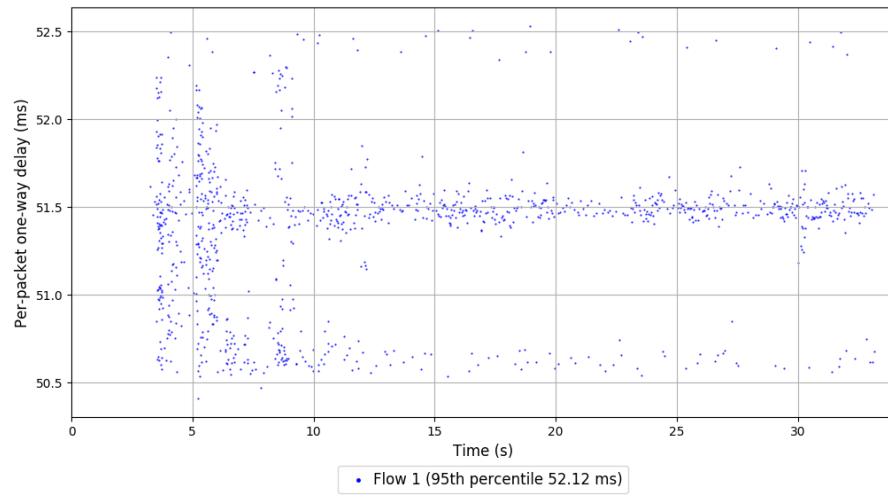
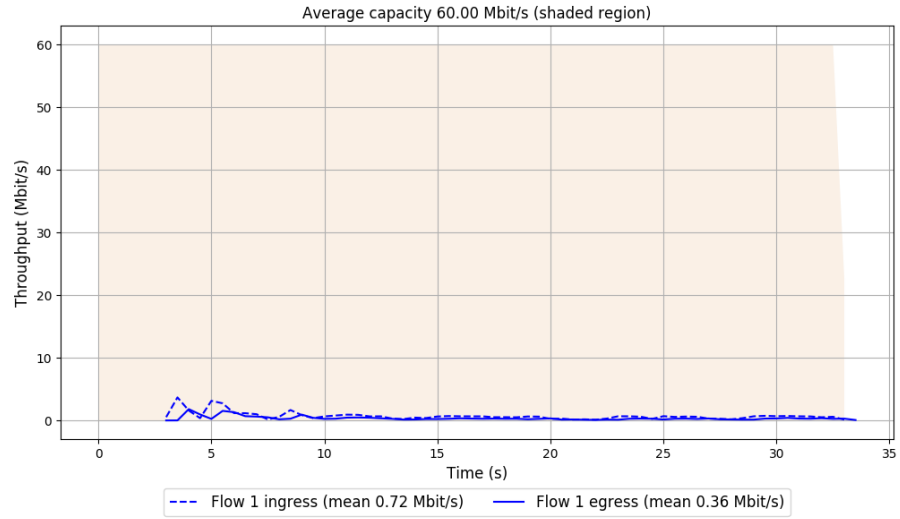
-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 52.121 ms

Loss rate: 50.22%

Run 3: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2020-04-16 05:25:58

End at: 2020-04-16 05:26:28

Below is generated by plot.py at 2020-04-16 06:01:17

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.88 Mbit/s (1.5% utilization)

95th percentile per-packet one-way delay: 52.170 ms

Loss rate: 44.39%

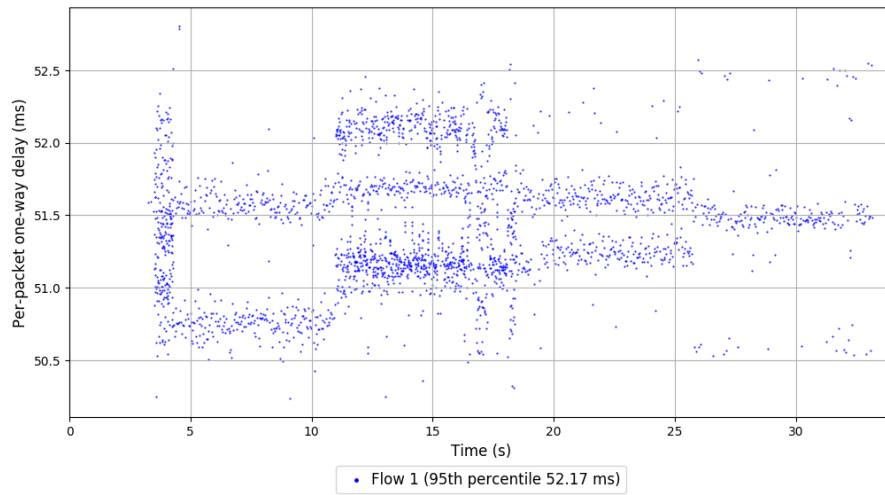
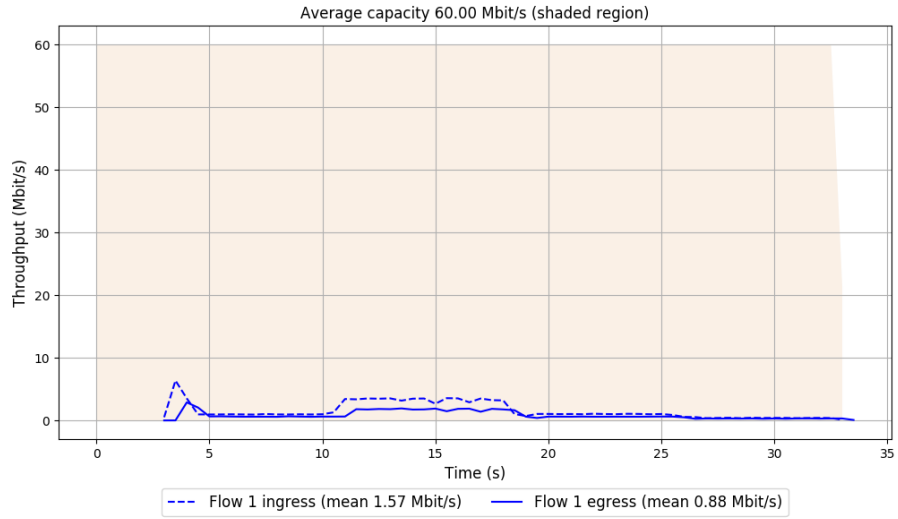
-- Flow 1:

Average throughput: 0.88 Mbit/s

95th percentile per-packet one-way delay: 52.170 ms

Loss rate: 44.39%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2020-04-16 05:40:26

End at: 2020-04-16 05:40:56

Below is generated by plot.py at 2020-04-16 06:01:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.04 Mbit/s (1.7% utilization)

95th percentile per-packet one-way delay: 52.148 ms

Loss rate: 49.89%

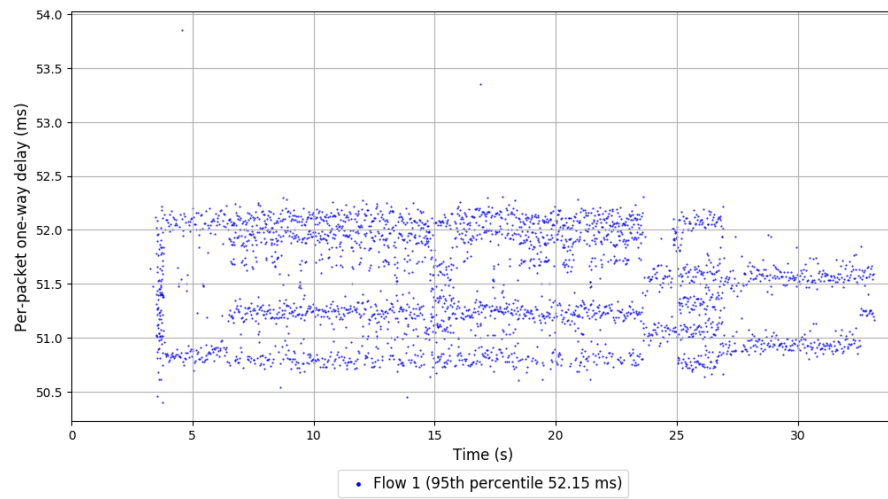
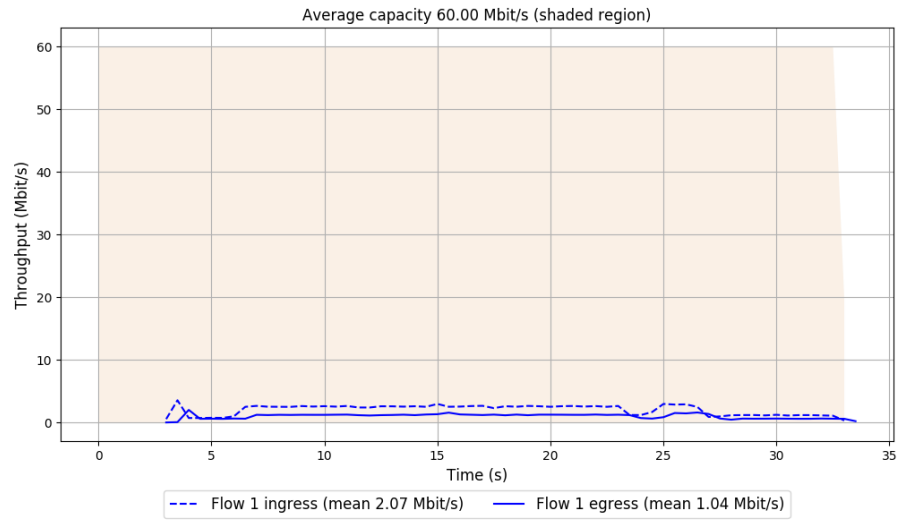
-- Flow 1:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 52.148 ms

Loss rate: 49.89%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2020-04-16 05:54:43

End at: 2020-04-16 05:55:13

Below is generated by plot.py at 2020-04-16 06:01:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.79 Mbit/s (1.3% utilization)

95th percentile per-packet one-way delay: 51.786 ms

Loss rate: 45.29%

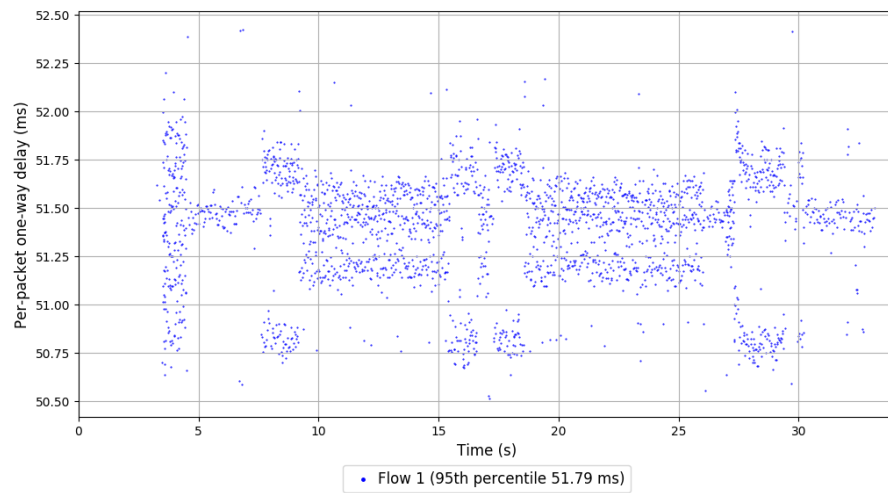
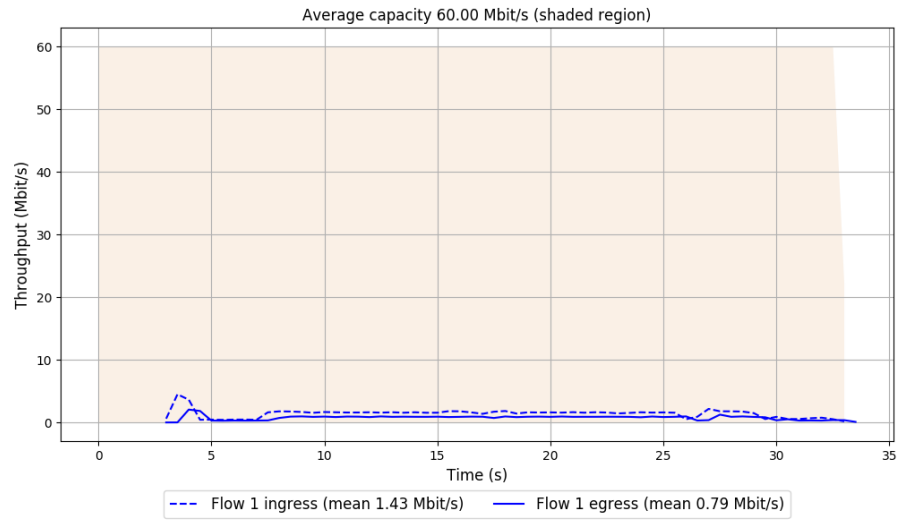
-- Flow 1:

Average throughput: 0.79 Mbit/s

95th percentile per-packet one-way delay: 51.786 ms

Loss rate: 45.29%

Run 3: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2020-04-16 05:23:35

End at: 2020-04-16 05:24:05

Below is generated by plot.py at 2020-04-16 06:01:44

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 2.81 Mbit/s (4.7% utilization)

95th percentile per-packet one-way delay: 52.105 ms

Loss rate: 96.90%

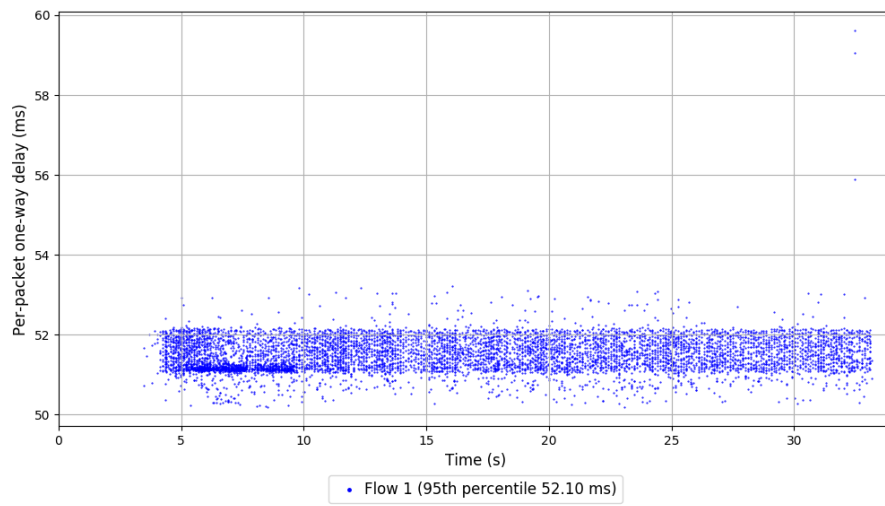
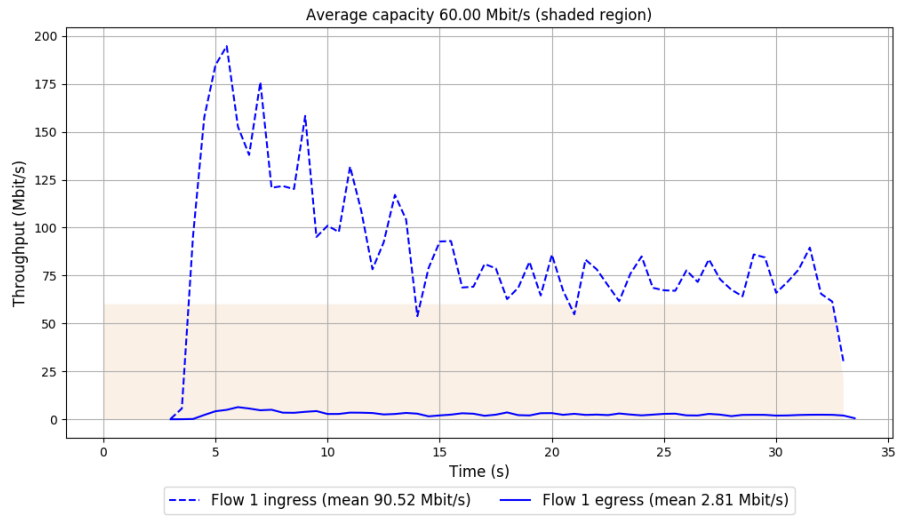
-- Flow 1:

Average throughput: 2.81 Mbit/s

95th percentile per-packet one-way delay: 52.105 ms

Loss rate: 96.90%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2020-04-16 05:38:02

End at: 2020-04-16 05:38:32

Below is generated by plot.py at 2020-04-16 06:01:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 2.51 Mbit/s (4.2% utilization)

95th percentile per-packet one-way delay: 52.111 ms

Loss rate: 96.89%

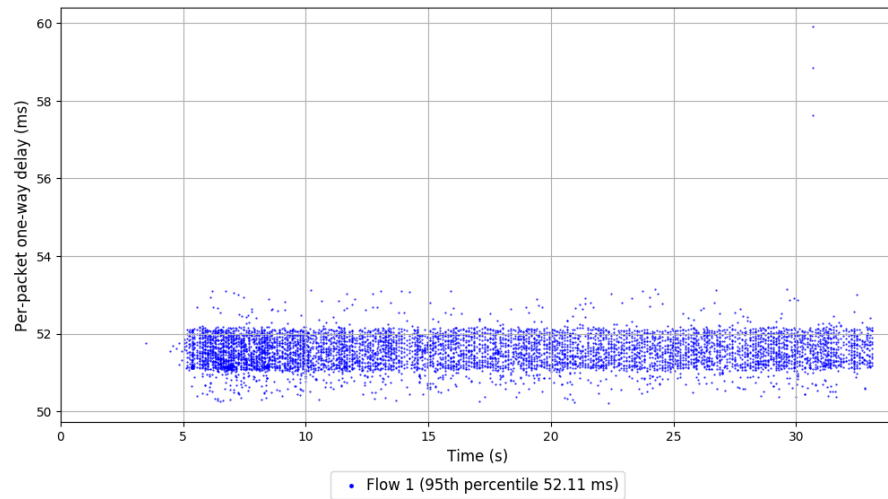
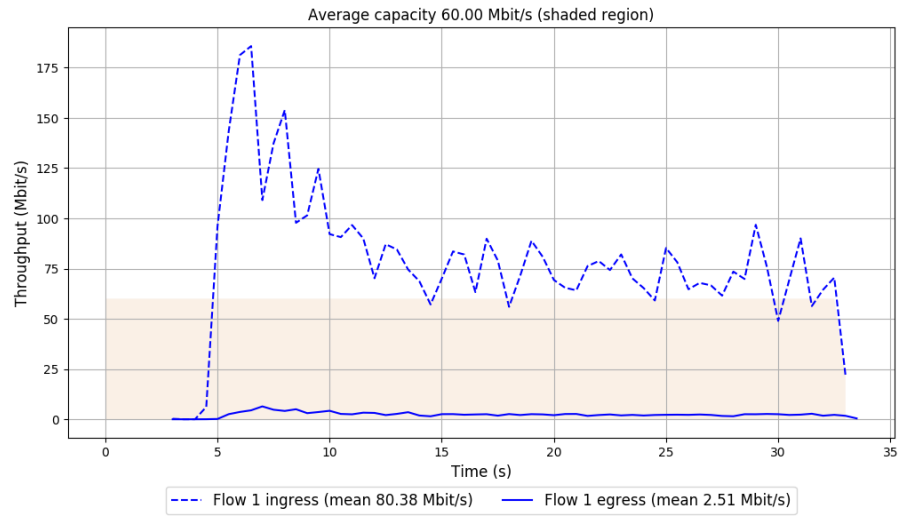
-- Flow 1:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 52.111 ms

Loss rate: 96.89%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2020-04-16 05:52:20

End at: 2020-04-16 05:52:50

Below is generated by plot.py at 2020-04-16 06:02:05

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 2.60 Mbit/s (4.3% utilization)

95th percentile per-packet one-way delay: 52.108 ms

Loss rate: 97.07%

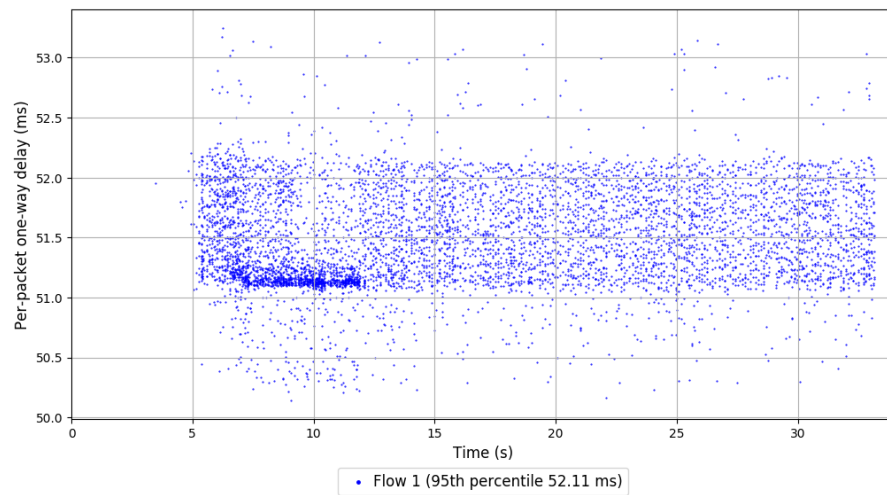
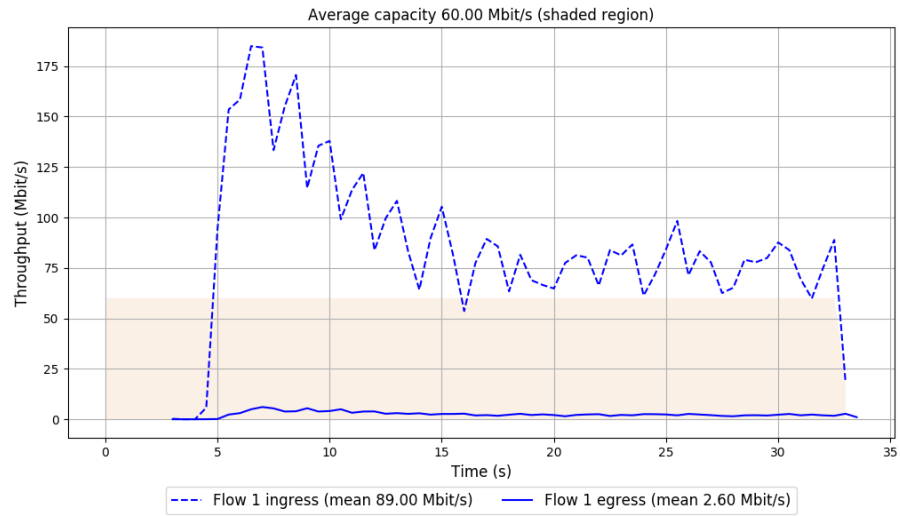
-- Flow 1:

Average throughput: 2.60 Mbit/s

95th percentile per-packet one-way delay: 52.108 ms

Loss rate: 97.07%

Run 3: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2020-04-16 05:21:12

End at: 2020-04-16 05:21:42

Below is generated by plot.py at 2020-04-16 06:02:05

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.40 Mbit/s (2.3% utilization)

95th percentile per-packet one-way delay: 52.156 ms

Loss rate: 34.45%

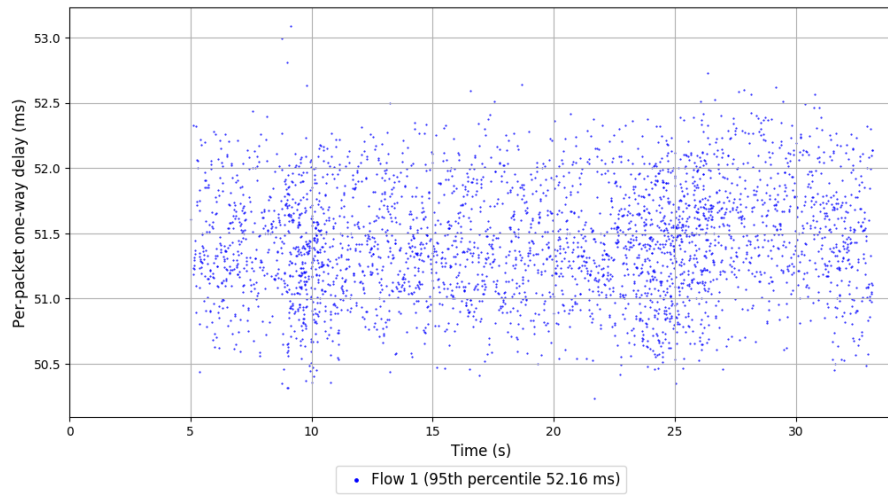
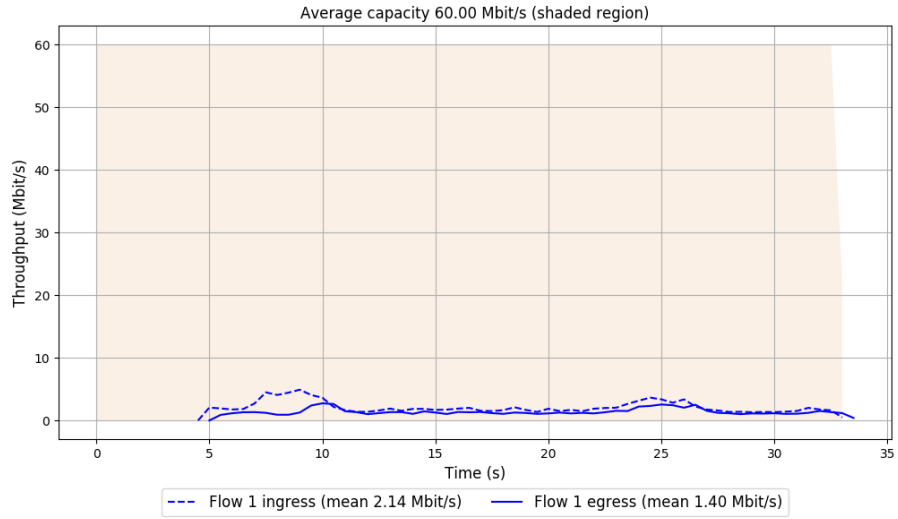
-- Flow 1:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 52.156 ms

Loss rate: 34.45%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2020-04-16 05:35:40

End at: 2020-04-16 05:36:10

Below is generated by plot.py at 2020-04-16 06:02:05

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.66 Mbit/s (2.8% utilization)

95th percentile per-packet one-way delay: 52.102 ms

Loss rate: 30.75%

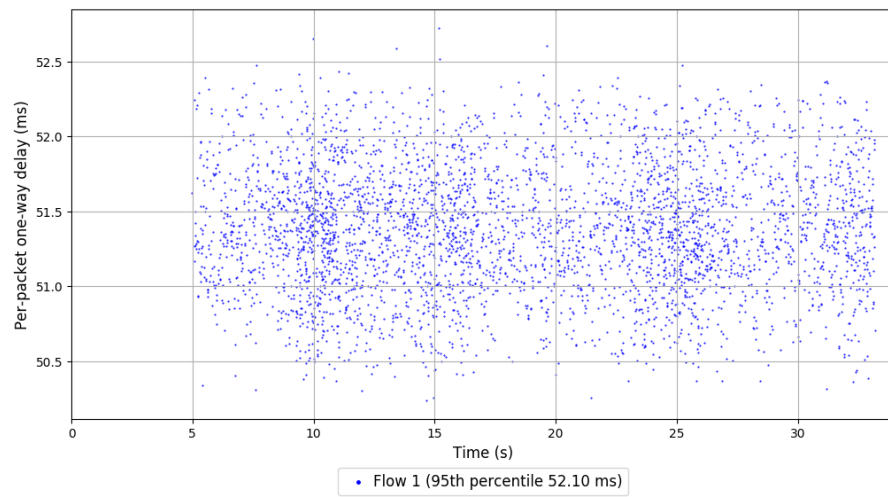
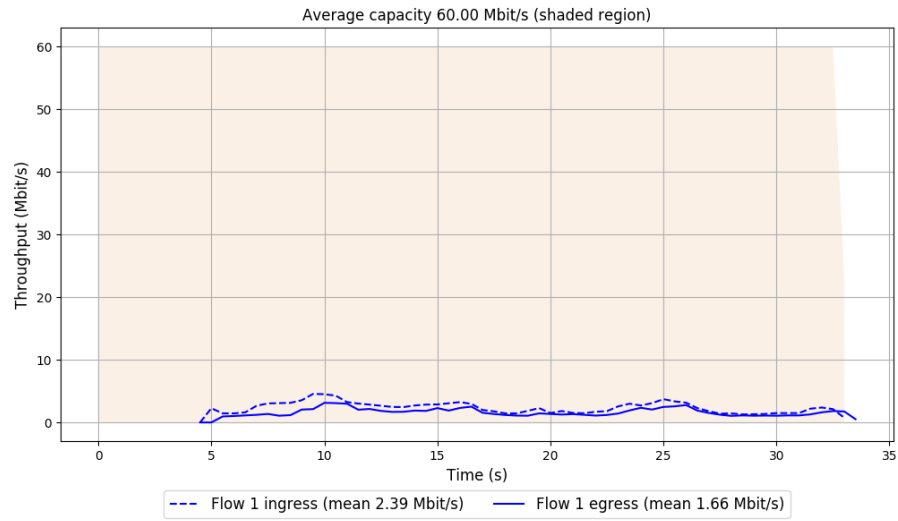
-- Flow 1:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 52.102 ms

Loss rate: 30.75%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2020-04-16 05:49:57

End at: 2020-04-16 05:50:27

Below is generated by plot.py at 2020-04-16 06:02:05

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.28 Mbit/s (2.1% utilization)

95th percentile per-packet one-way delay: 52.148 ms

Loss rate: 33.04%

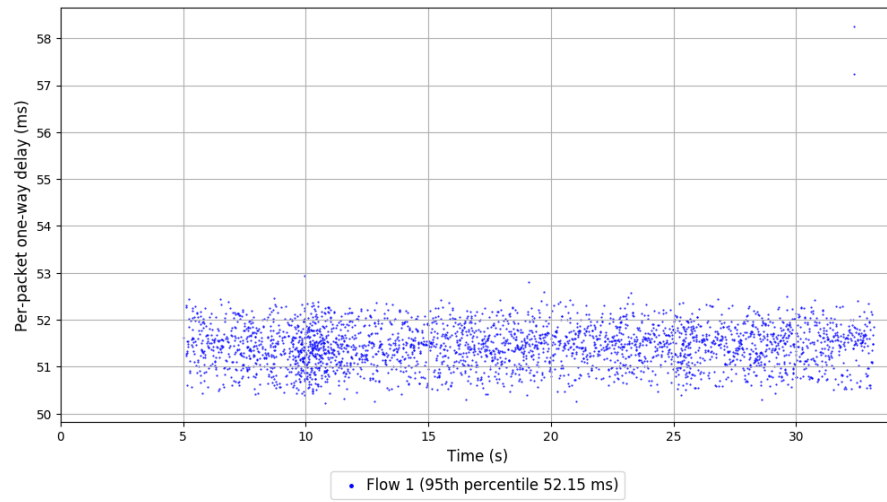
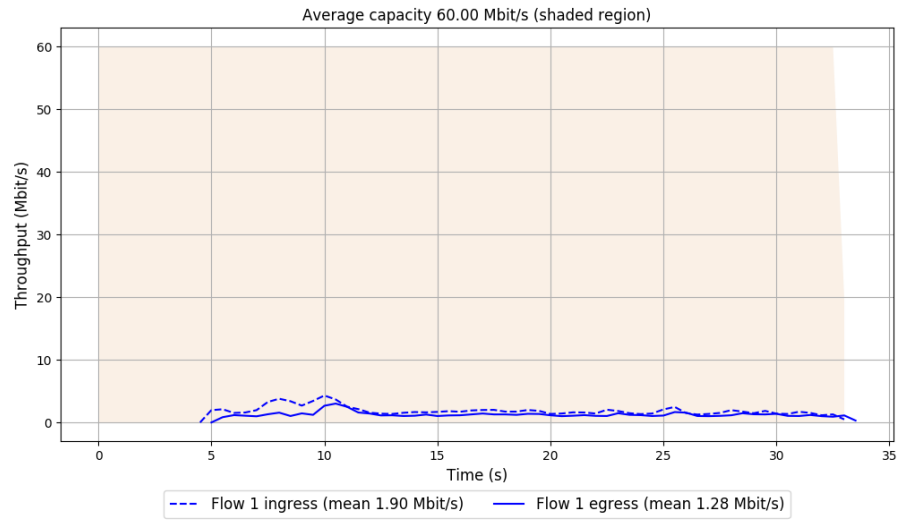
-- Flow 1:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 52.148 ms

Loss rate: 33.04%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2020-04-16 05:29:45

End at: 2020-04-16 05:30:15

Below is generated by plot.py at 2020-04-16 06:02:05

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.22 Mbit/s (2.0% utilization)

95th percentile per-packet one-way delay: 52.130 ms

Loss rate: 49.95%

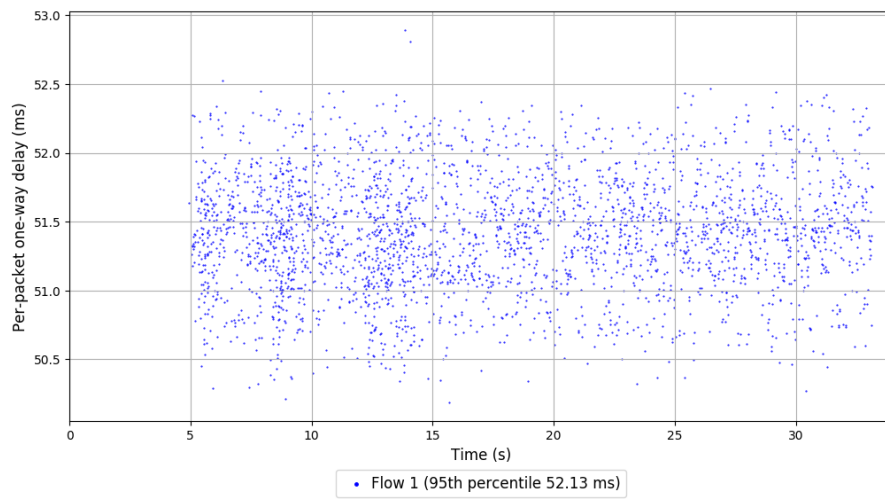
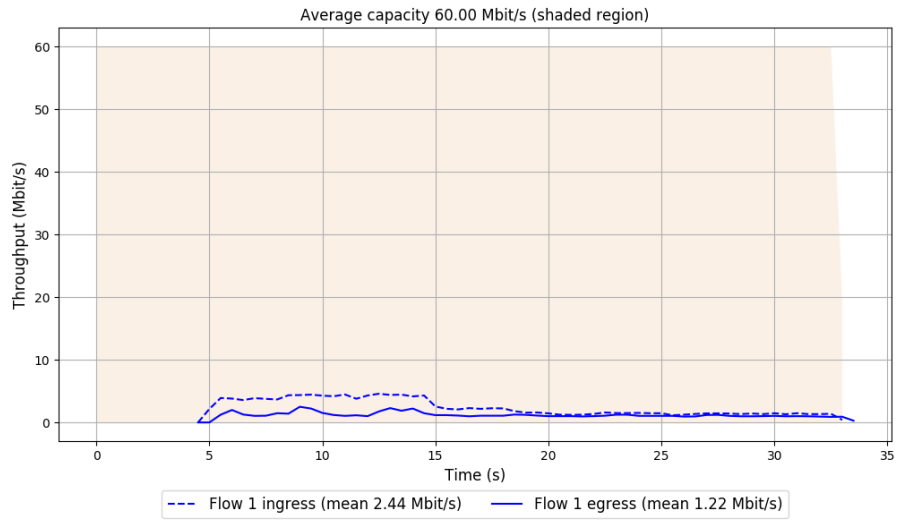
-- Flow 1:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 52.130 ms

Loss rate: 49.95%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2020-04-16 05:44:02

End at: 2020-04-16 05:44:32

Below is generated by plot.py at 2020-04-16 06:02:05

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.10 Mbit/s (1.8% utilization)

95th percentile per-packet one-way delay: 52.165 ms

Loss rate: 44.17%

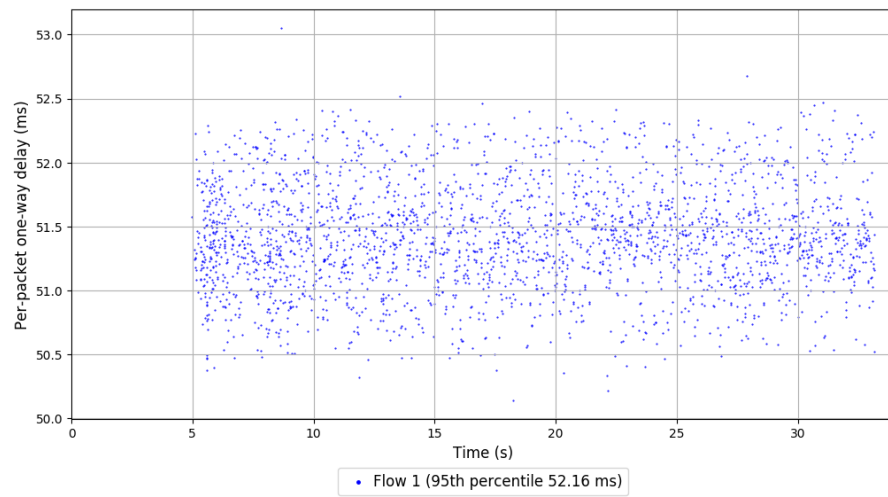
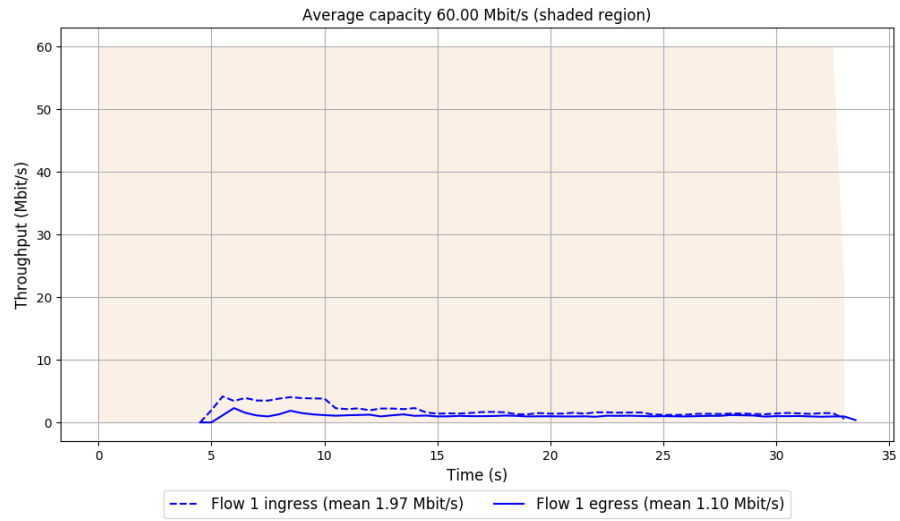
-- Flow 1:

Average throughput: 1.10 Mbit/s

95th percentile per-packet one-way delay: 52.165 ms

Loss rate: 44.17%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2020-04-16 05:58:28

End at: 2020-04-16 05:58:58

Below is generated by plot.py at 2020-04-16 06:02:05

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.12 Mbit/s (1.9% utilization)

95th percentile per-packet one-way delay: 52.157 ms

Loss rate: 44.53%

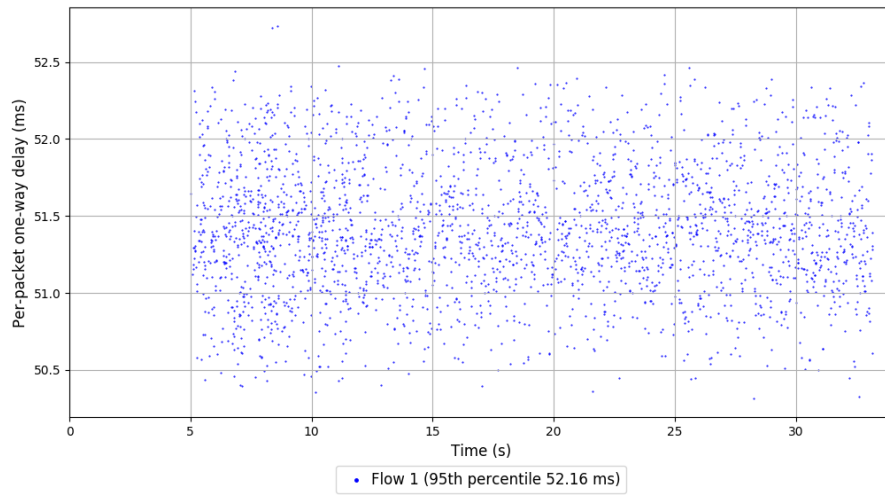
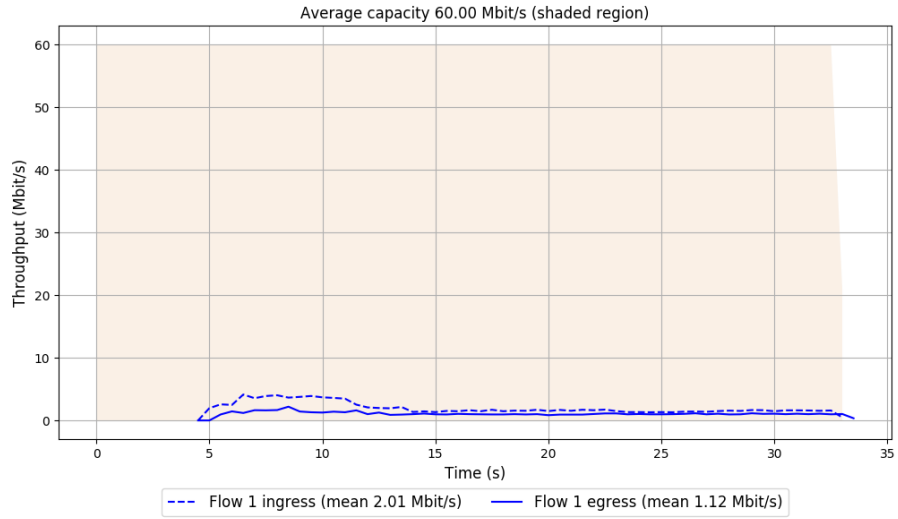
-- Flow 1:

Average throughput: 1.12 Mbit/s

95th percentile per-packet one-way delay: 52.157 ms

Loss rate: 44.53%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2020-04-16 05:27:57

End at: 2020-04-16 05:28:27

Below is generated by plot.py at 2020-04-16 06:02:05

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 3.00 Mbit/s (5.0% utilization)

95th percentile per-packet one-way delay: 52.132 ms

Loss rate: 42.02%

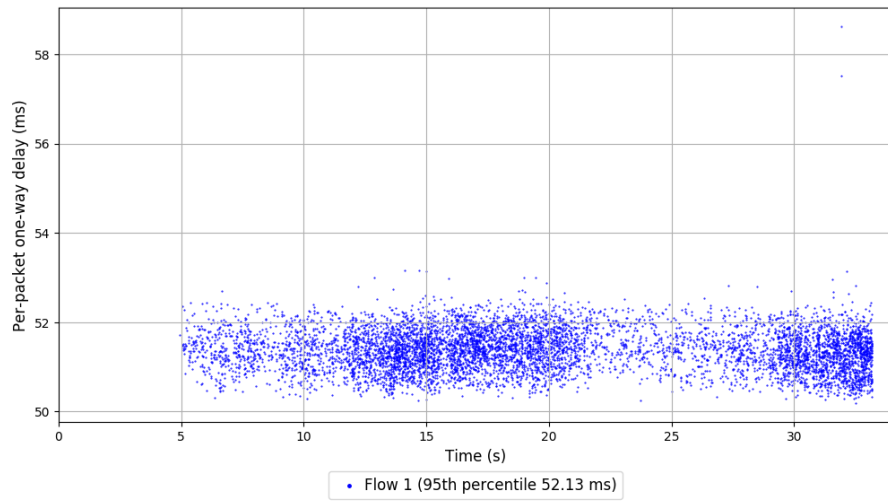
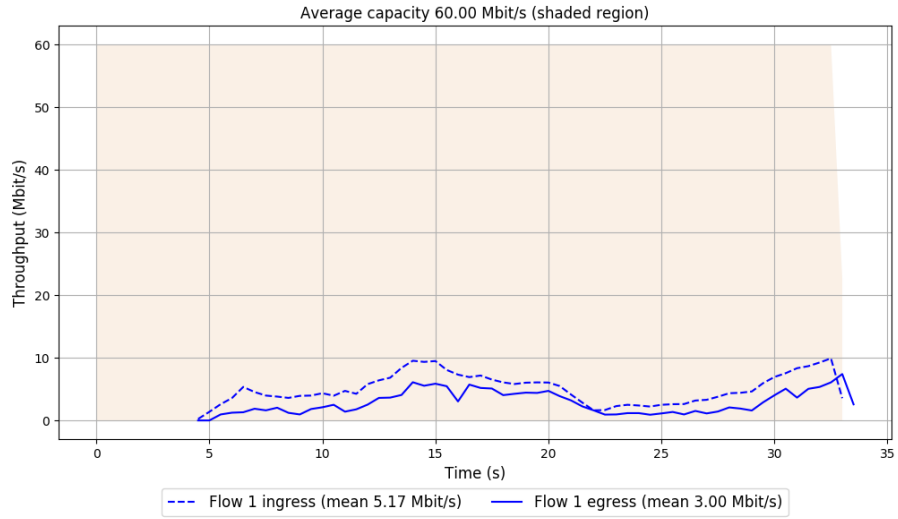
-- Flow 1:

Average throughput: 3.00 Mbit/s

95th percentile per-packet one-way delay: 52.132 ms

Loss rate: 42.02%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2020-04-16 05:42:15

End at: 2020-04-16 05:42:45

Below is generated by plot.py at 2020-04-16 06:02:07

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 3.74 Mbit/s (6.2% utilization)

95th percentile per-packet one-way delay: 52.038 ms

Loss rate: 40.92%

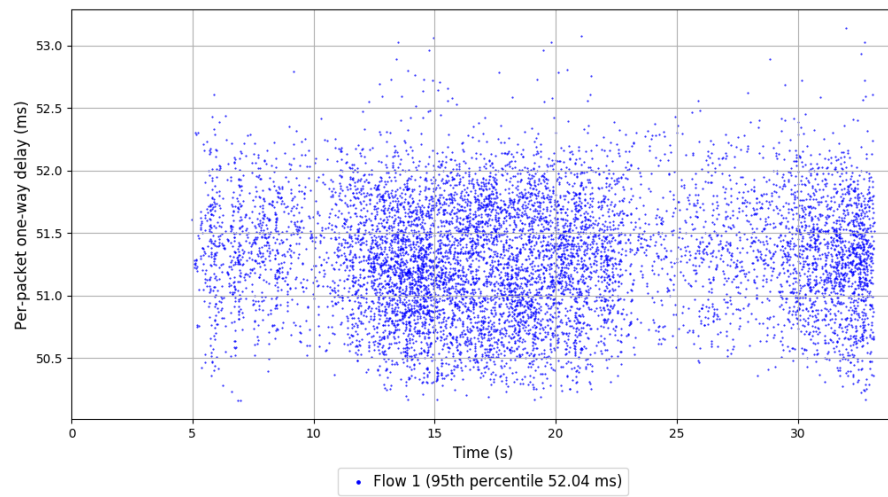
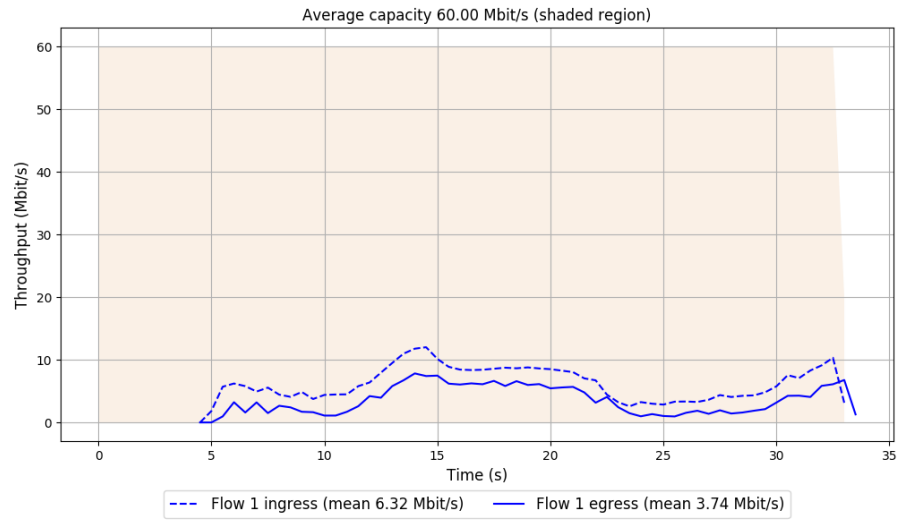
-- Flow 1:

Average throughput: 3.74 Mbit/s

95th percentile per-packet one-way delay: 52.038 ms

Loss rate: 40.92%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2020-04-16 05:56:38

End at: 2020-04-16 05:57:08

Below is generated by plot.py at 2020-04-16 06:02:07

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 3.07 Mbit/s (5.1% utilization)

95th percentile per-packet one-way delay: 52.058 ms

Loss rate: 43.93%

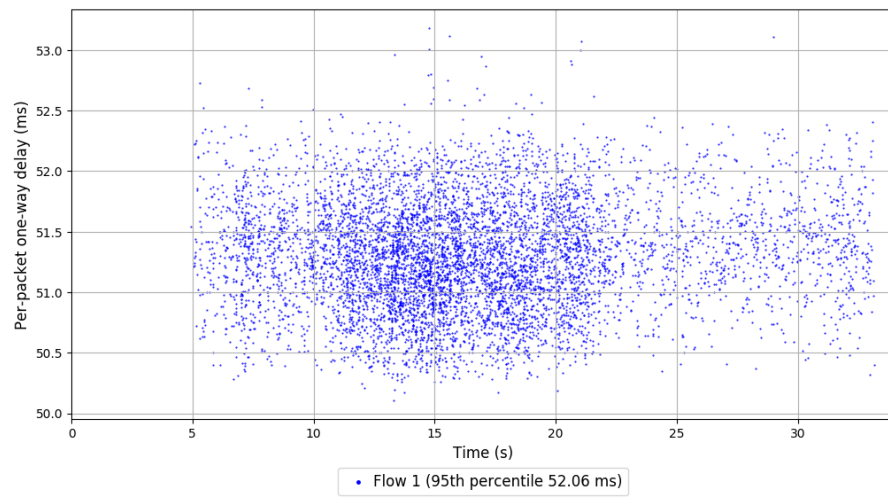
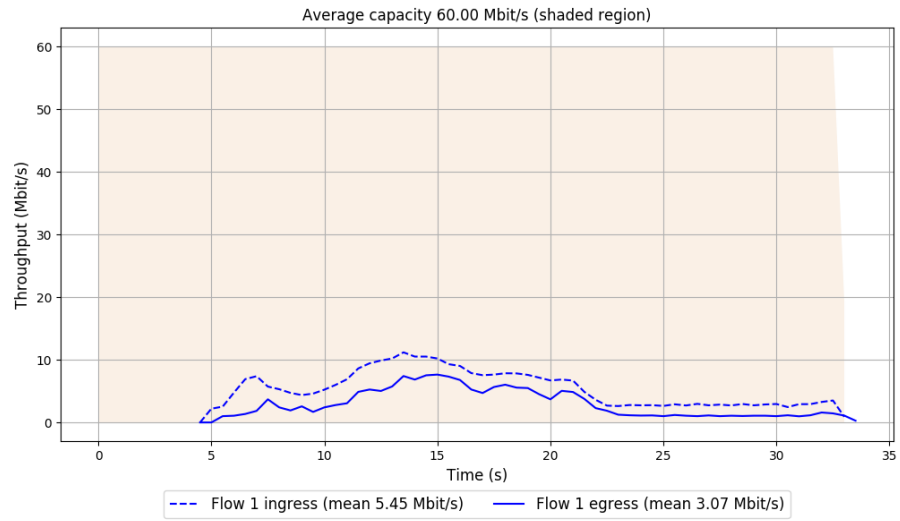
-- Flow 1:

Average throughput: 3.07 Mbit/s

95th percentile per-packet one-way delay: 52.058 ms

Loss rate: 43.93%

Run 3: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MuseST

Start at: 2020-04-16 05:24:12

End at: 2020-04-16 05:24:42

Below is generated by plot.py at 2020-04-16 06:02:07

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.35 Mbit/s (2.2% utilization)

95th percentile per-packet one-way delay: 52.182 ms

Loss rate: 25.20%

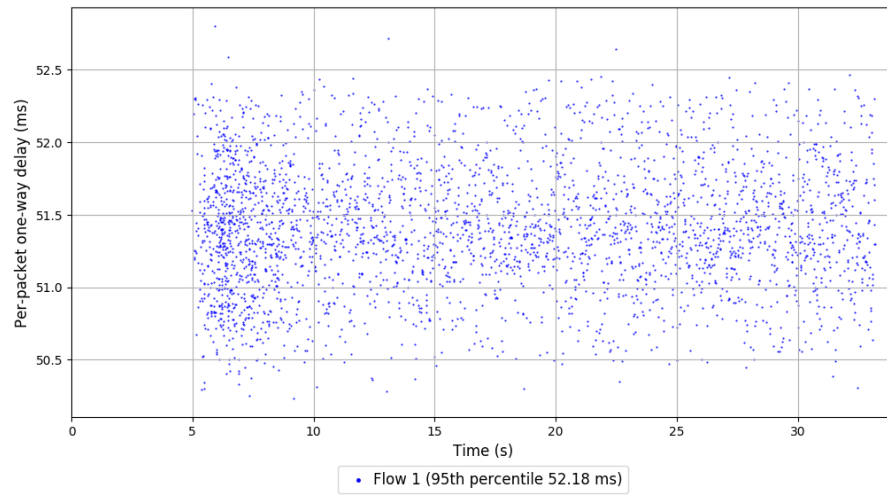
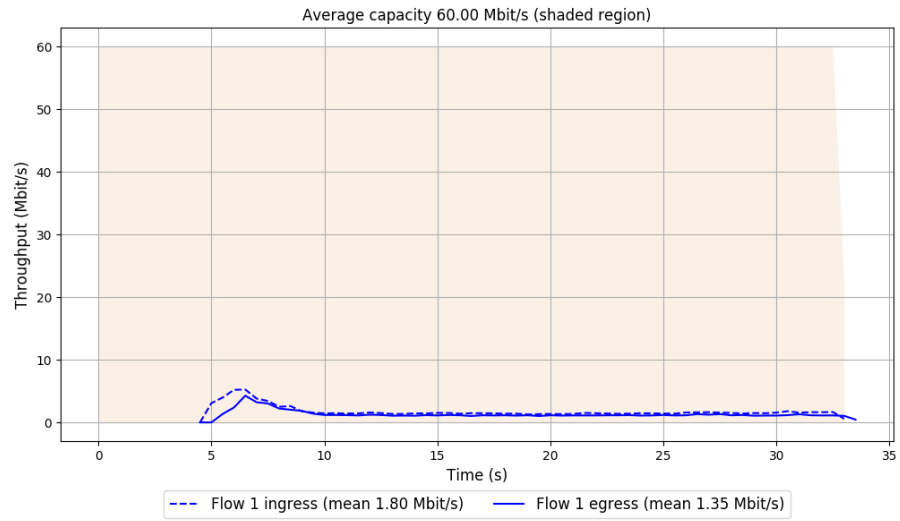
-- Flow 1:

Average throughput: 1.35 Mbit/s

95th percentile per-packet one-way delay: 52.182 ms

Loss rate: 25.20%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MuseST

Start at: 2020-04-16 05:38:39

End at: 2020-04-16 05:39:09

Below is generated by plot.py at 2020-04-16 06:02:09

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.35 Mbit/s (2.3% utilization)

95th percentile per-packet one-way delay: 52.158 ms

Loss rate: 25.13%

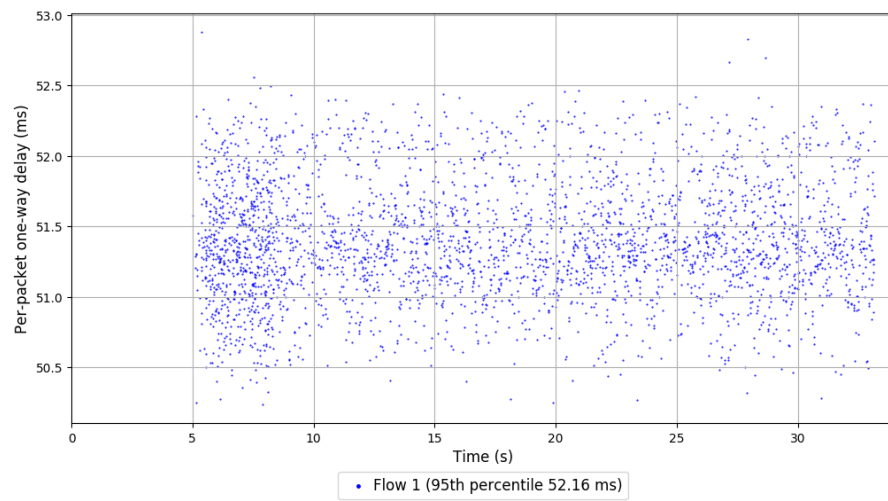
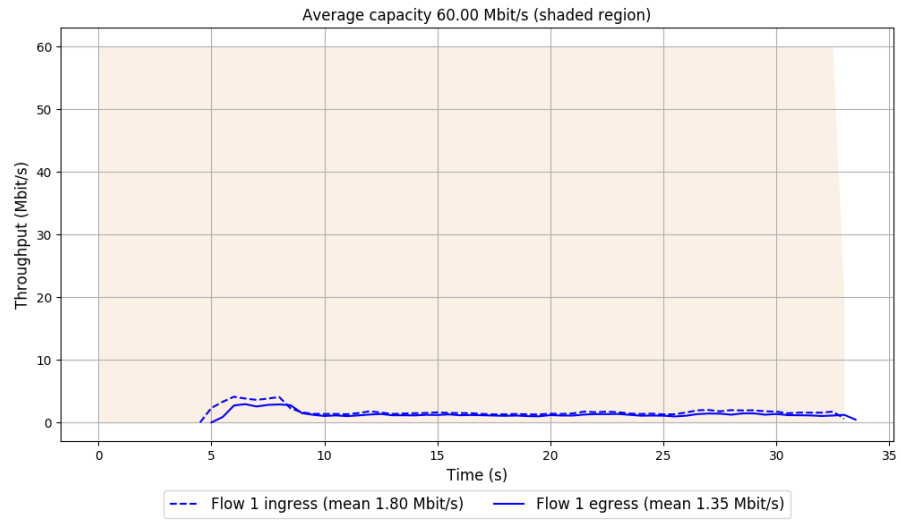
-- Flow 1:

Average throughput: 1.35 Mbit/s

95th percentile per-packet one-way delay: 52.158 ms

Loss rate: 25.13%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MuseST

Start at: 2020-04-16 05:52:57

End at: 2020-04-16 05:53:27

Below is generated by plot.py at 2020-04-16 06:02:22

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.38 Mbit/s (2.3% utilization)

95th percentile per-packet one-way delay: 52.122 ms

Loss rate: 26.27%

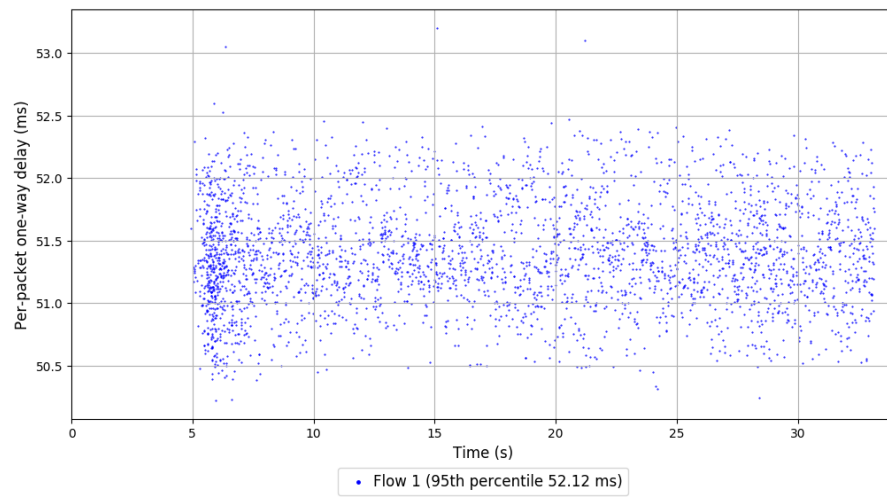
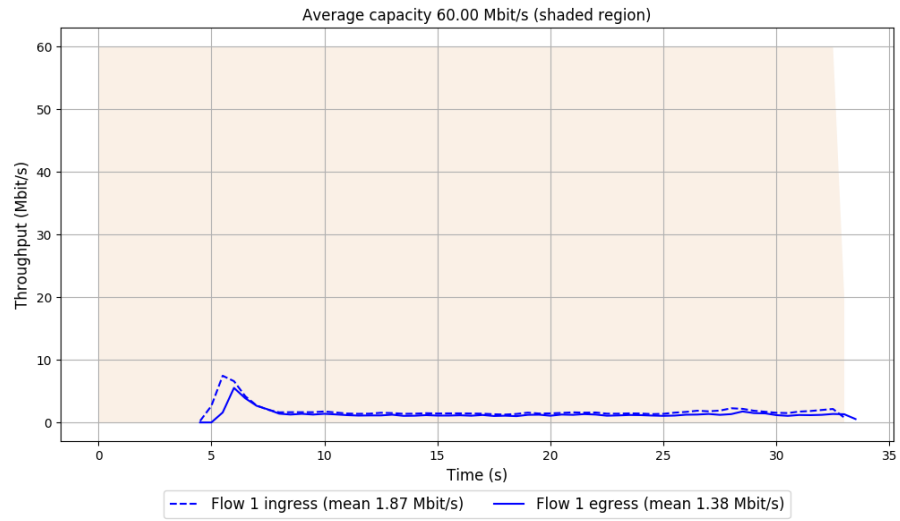
-- Flow 1:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 52.122 ms

Loss rate: 26.27%

Run 3: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2020-04-16 05:30:56

End at: 2020-04-16 05:31:26

Below is generated by plot.py at 2020-04-16 06:02:22

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.12 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 51.633 ms

Loss rate: 24.76%

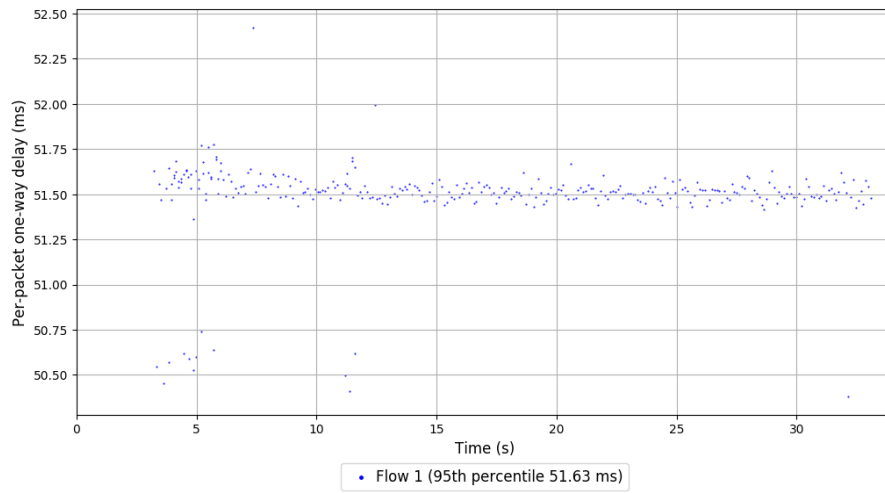
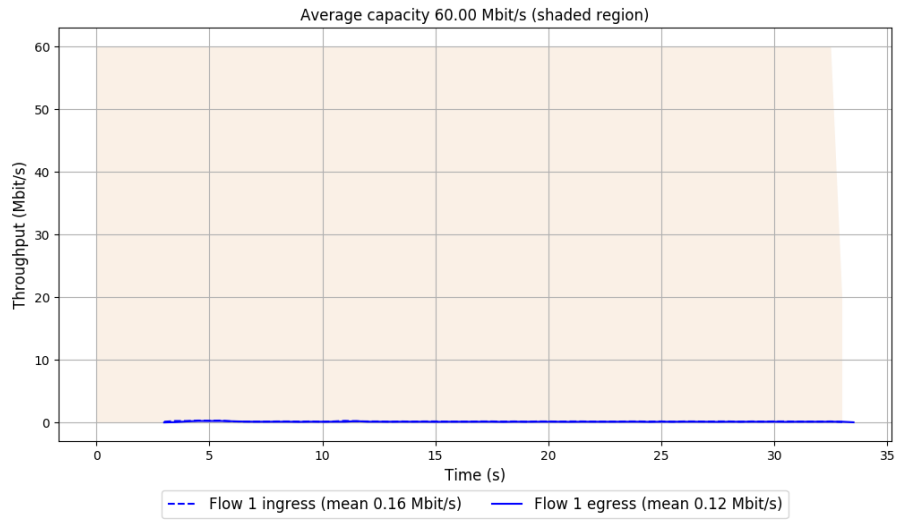
-- Flow 1:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 51.633 ms

Loss rate: 24.76%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2020-04-16 05:45:13

End at: 2020-04-16 05:45:43

Below is generated by plot.py at 2020-04-16 06:02:24

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.10 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 51.593 ms

Loss rate: 40.36%

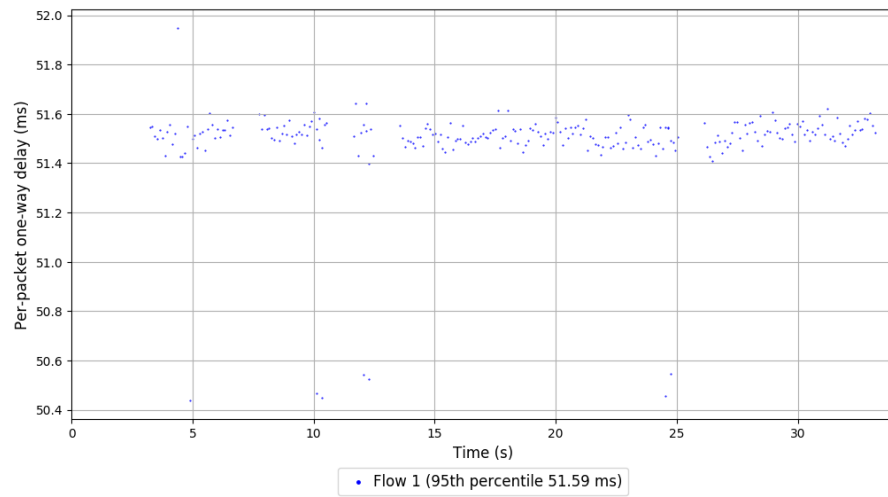
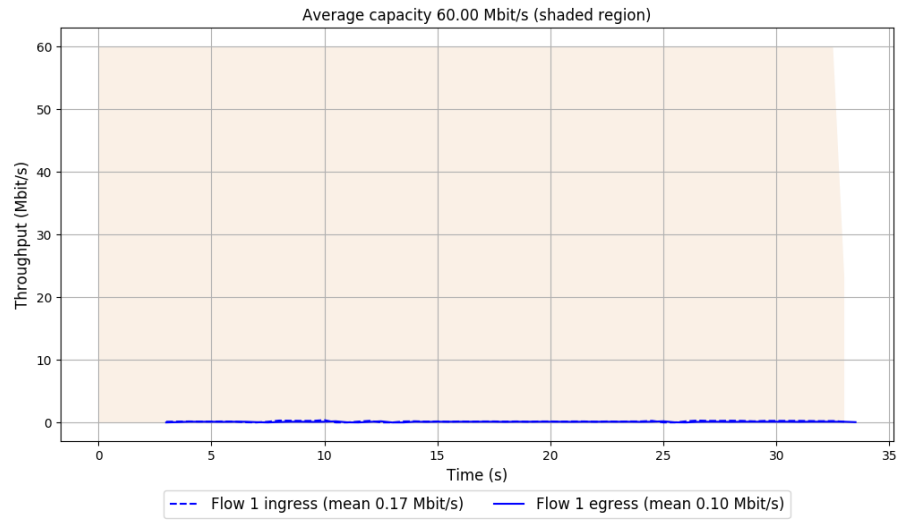
-- Flow 1:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 51.593 ms

Loss rate: 40.36%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2020-04-16 05:59:39

End at: 2020-04-16 06:00:09

Below is generated by plot.py at 2020-04-16 06:02:26

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.09 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 51.605 ms

Loss rate: 45.77%

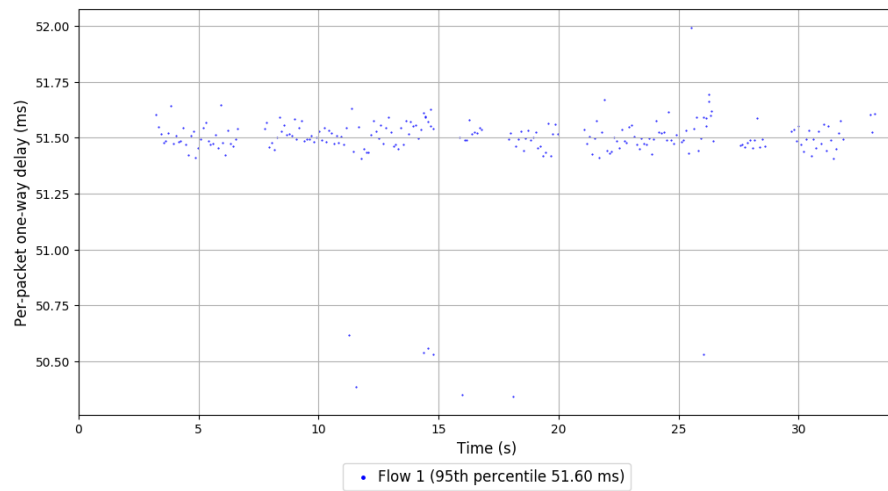
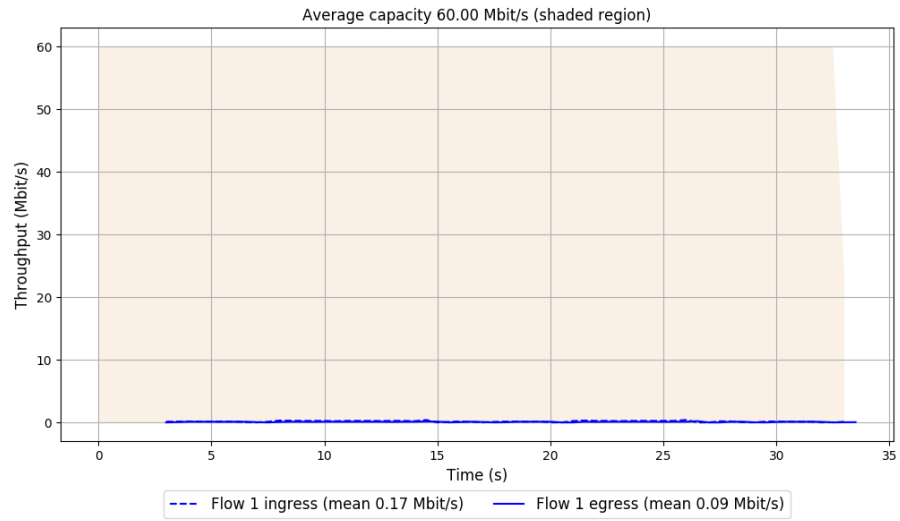
-- Flow 1:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 51.605 ms

Loss rate: 45.77%

Run 3: Report of LEDBAT — Data Link



Run 1: Statistics of Muses_DecisionTree

Start at: 2020-04-16 05:21:48

End at: 2020-04-16 05:22:18

Below is generated by plot.py at 2020-04-16 06:02:28

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.20 Mbit/s (0.3% utilization)

95th percentile per-packet one-way delay: 52.067 ms

Loss rate: 2.10%

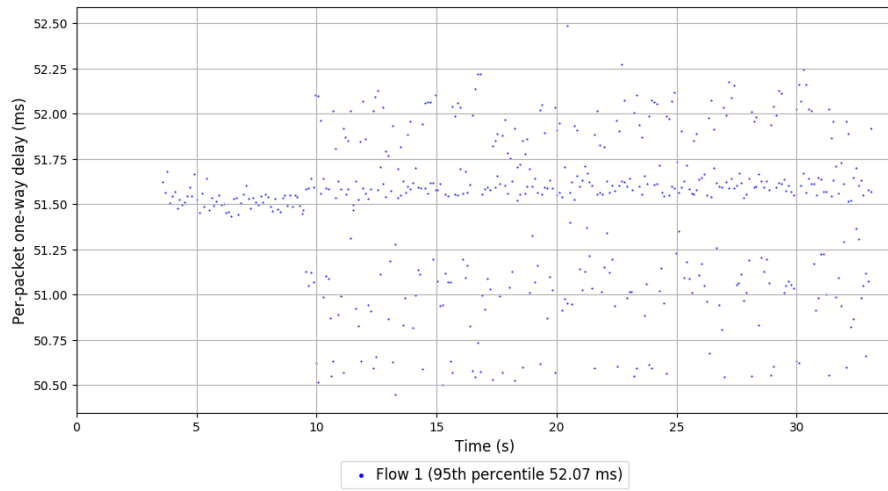
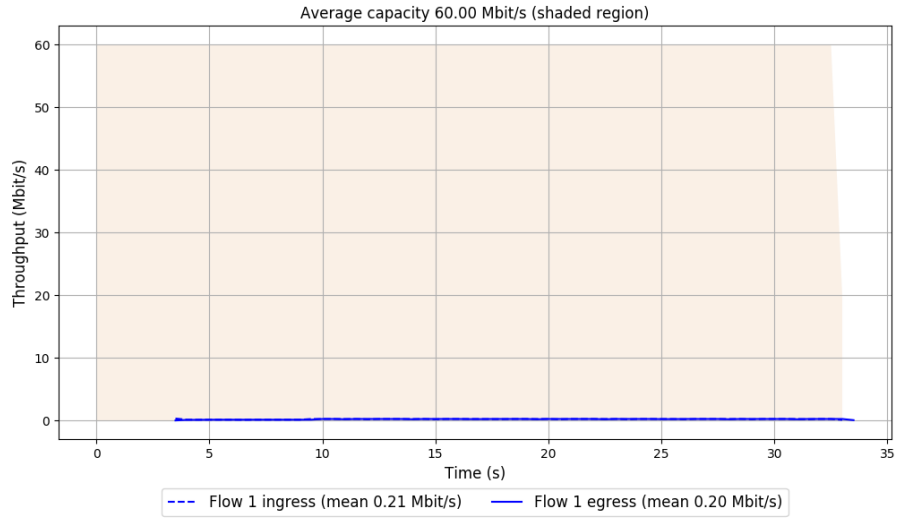
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 52.067 ms

Loss rate: 2.10%

Run 1: Report of Muses_DecisionTree — Data Link



Run 2: Statistics of Muses_DecisionTree

Start at: 2020-04-16 05:36:16

End at: 2020-04-16 05:36:46

Below is generated by plot.py at 2020-04-16 06:02:28

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.20 Mbit/s (0.3% utilization)

95th percentile per-packet one-way delay: 52.043 ms

Loss rate: 2.10%

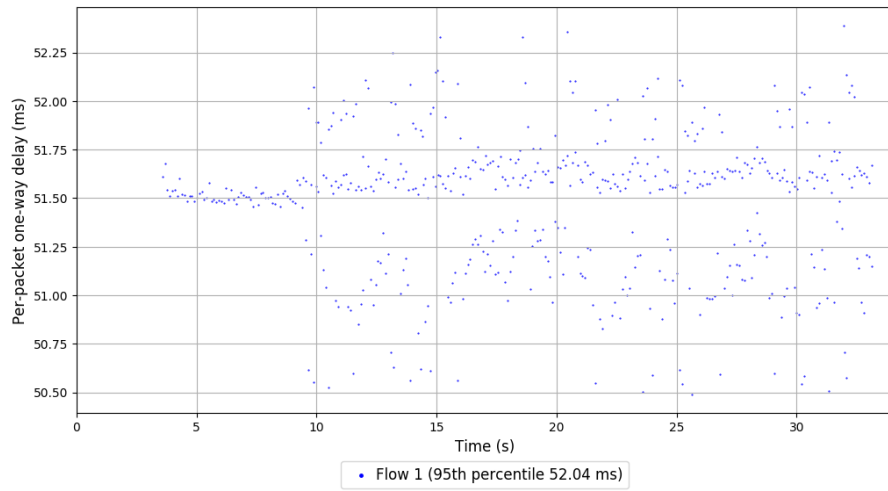
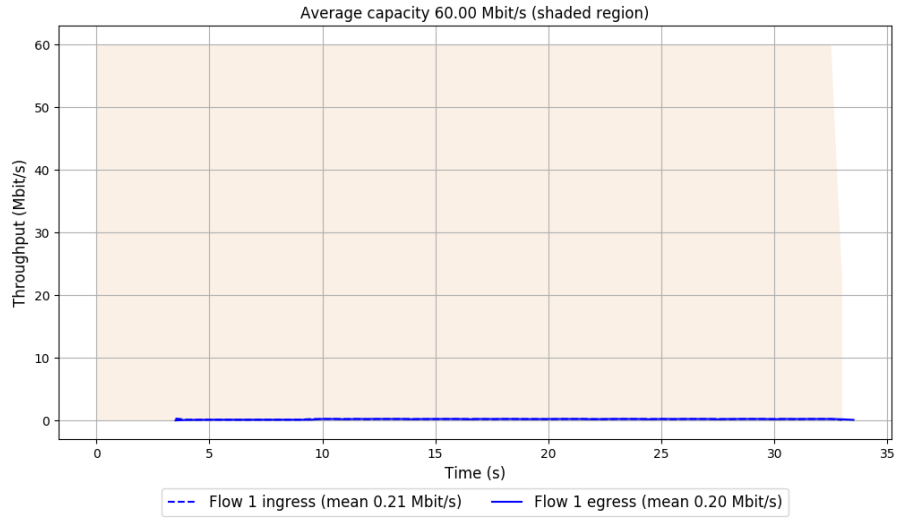
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 52.043 ms

Loss rate: 2.10%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

Start at: 2020-04-16 05:50:33

End at: 2020-04-16 05:51:03

Below is generated by plot.py at 2020-04-16 06:02:29

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.20 Mbit/s (0.3% utilization)

95th percentile per-packet one-way delay: 52.060 ms

Loss rate: 1.90%

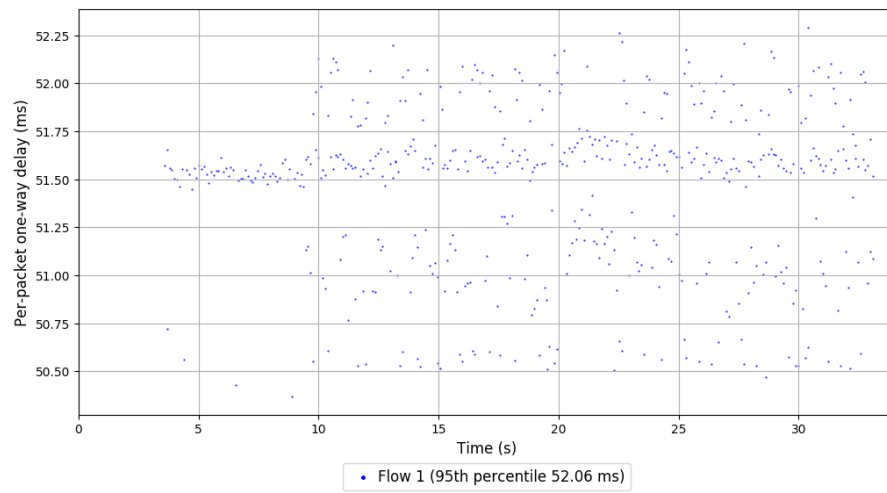
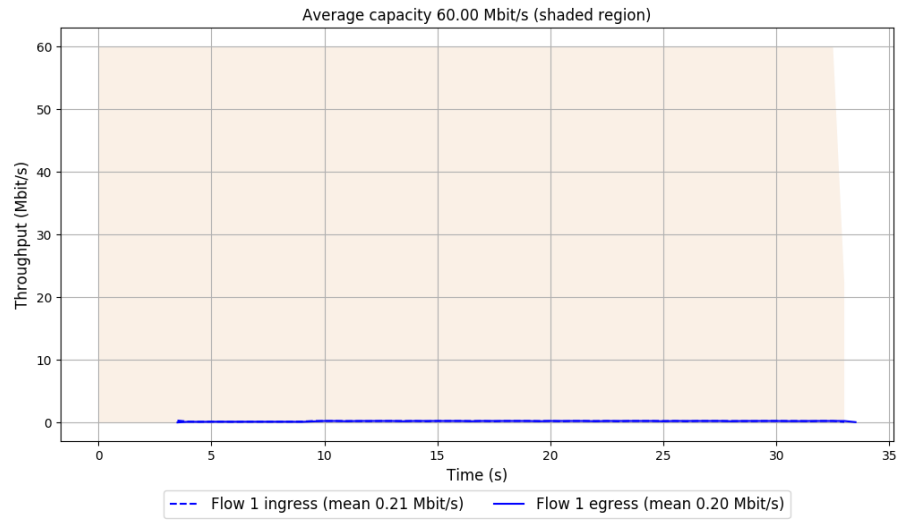
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 52.060 ms

Loss rate: 1.90%

Run 3: Report of Muses_DecisionTree — Data Link



Run 1: Statistics of Muses_DecisionTreeH0

Start at: 2020-04-16 05:19:26

End at: 2020-04-16 05:19:56

Below is generated by plot.py at 2020-04-16 06:02:31

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.20 Mbit/s (0.3% utilization)

95th percentile per-packet one-way delay: 52.035 ms

Loss rate: 2.10%

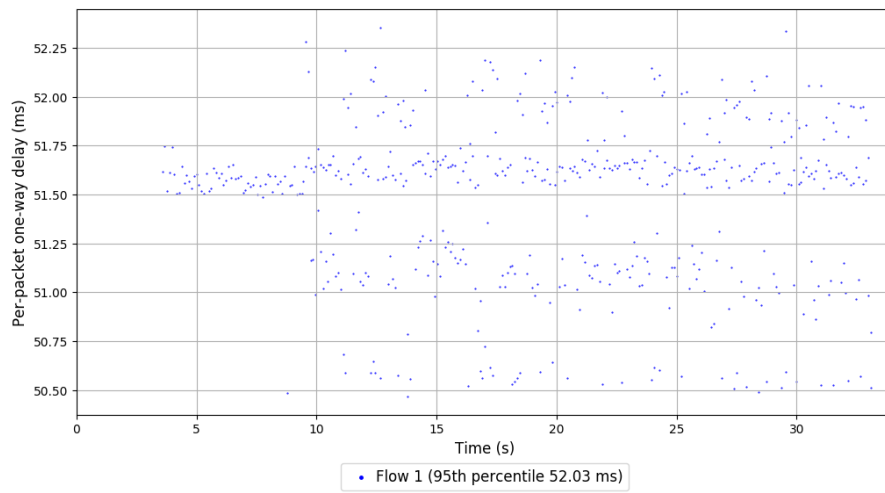
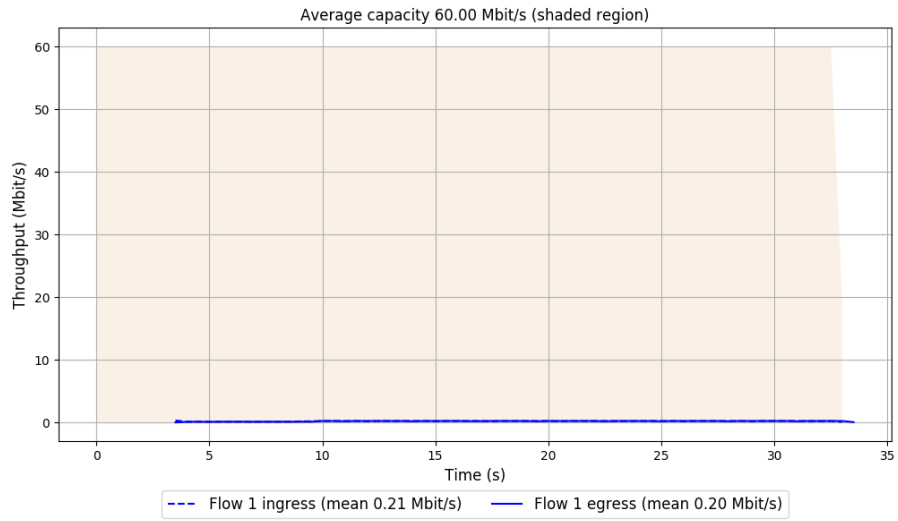
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 52.035 ms

Loss rate: 2.10%

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2020-04-16 05:33:53

End at: 2020-04-16 05:34:23

Below is generated by plot.py at 2020-04-16 06:02:43

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.20 Mbit/s (0.3% utilization)

95th percentile per-packet one-way delay: 52.029 ms

Loss rate: 1.72%

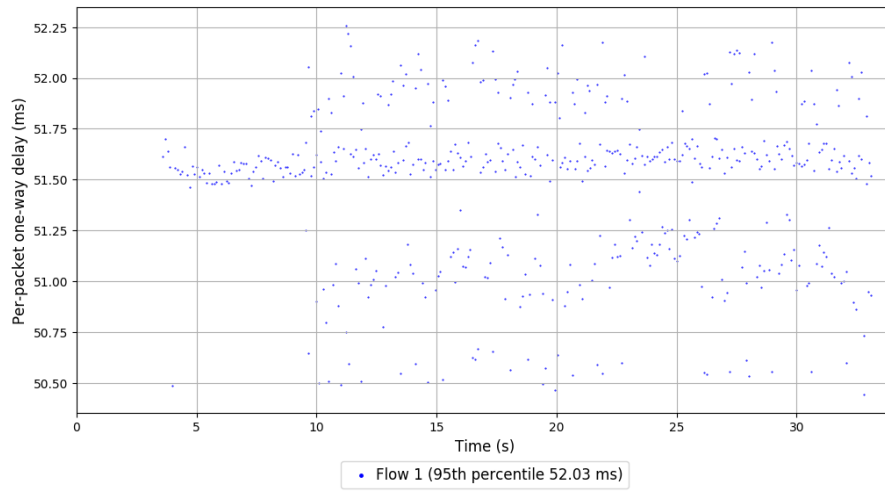
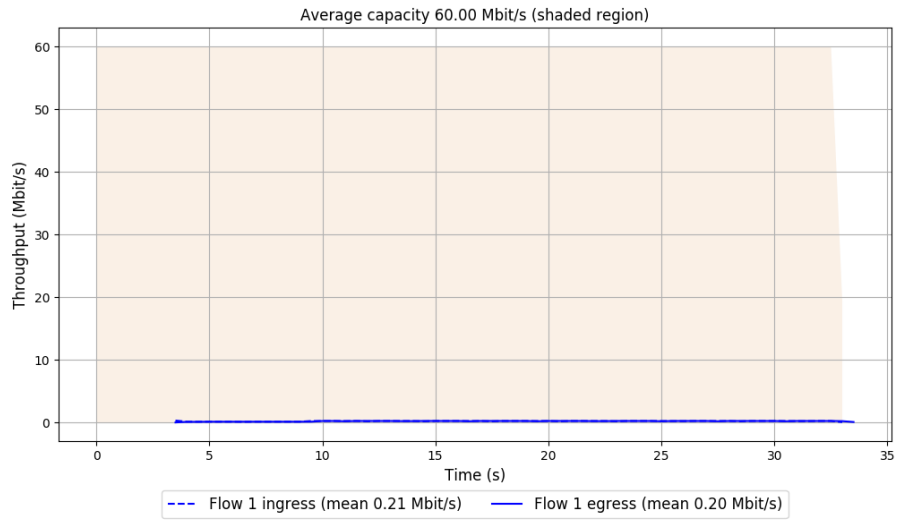
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 52.029 ms

Loss rate: 1.72%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2020-04-16 05:48:11

End at: 2020-04-16 05:48:41

Below is generated by plot.py at 2020-04-16 06:02:45

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.20 Mbit/s (0.3% utilization)

95th percentile per-packet one-way delay: 51.989 ms

Loss rate: 2.10%

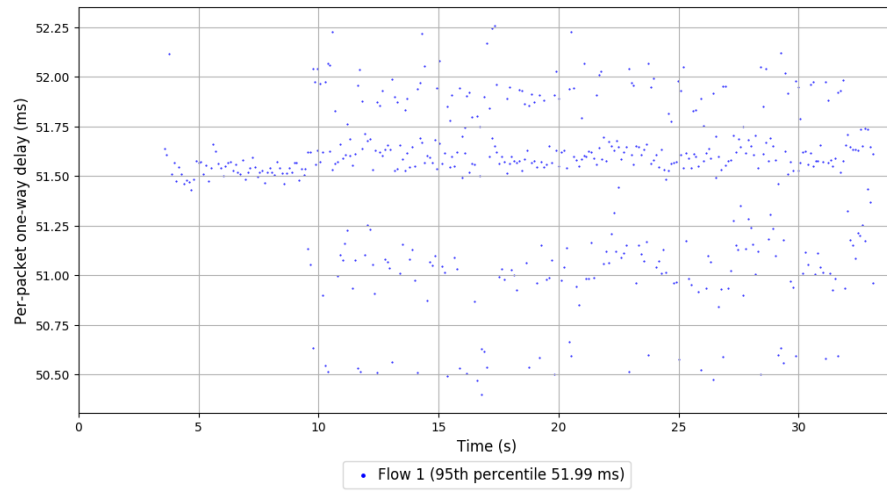
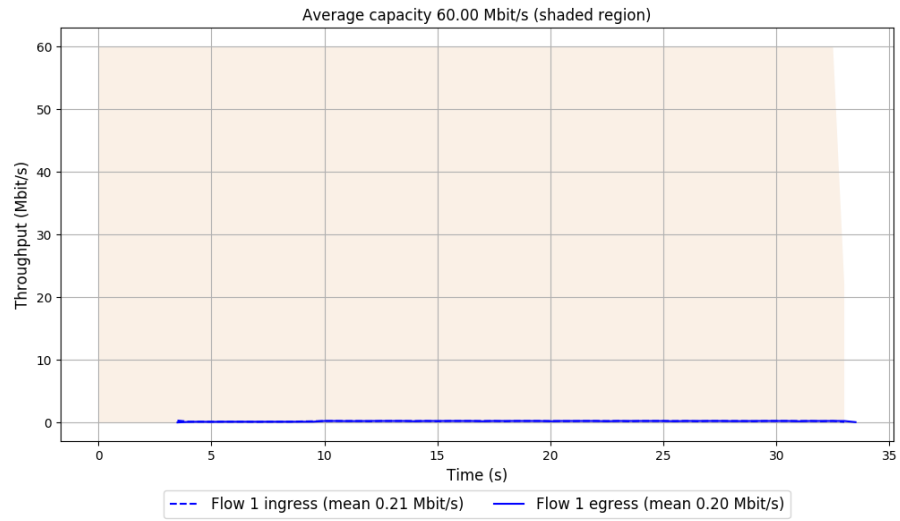
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 51.989 ms

Loss rate: 2.10%

Run 3: Report of Muses_DecisionTreeH0 — Data Link



Run 1: Statistics of Muses_DecisionTreeR0

Start at: 2020-04-16 05:17:39

End at: 2020-04-16 05:18:09

Below is generated by plot.py at 2020-04-16 06:02:46

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.20 Mbit/s (0.3% utilization)

95th percentile per-packet one-way delay: 52.059 ms

Loss rate: 1.72%

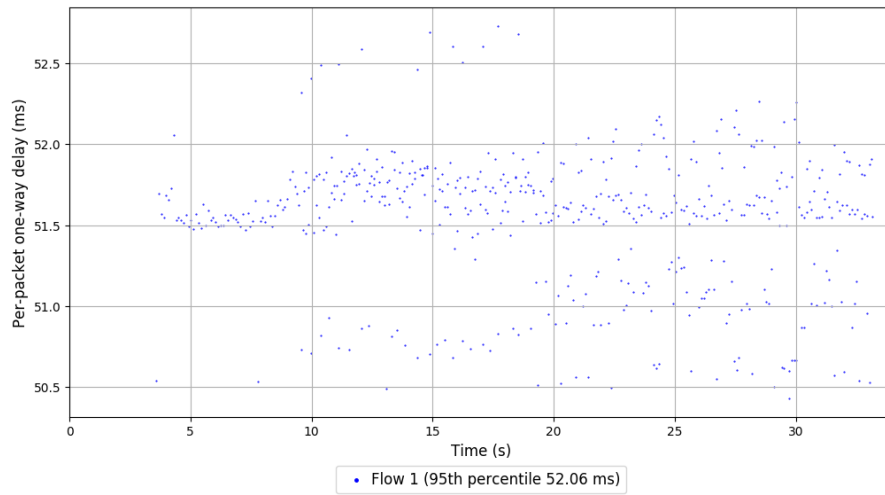
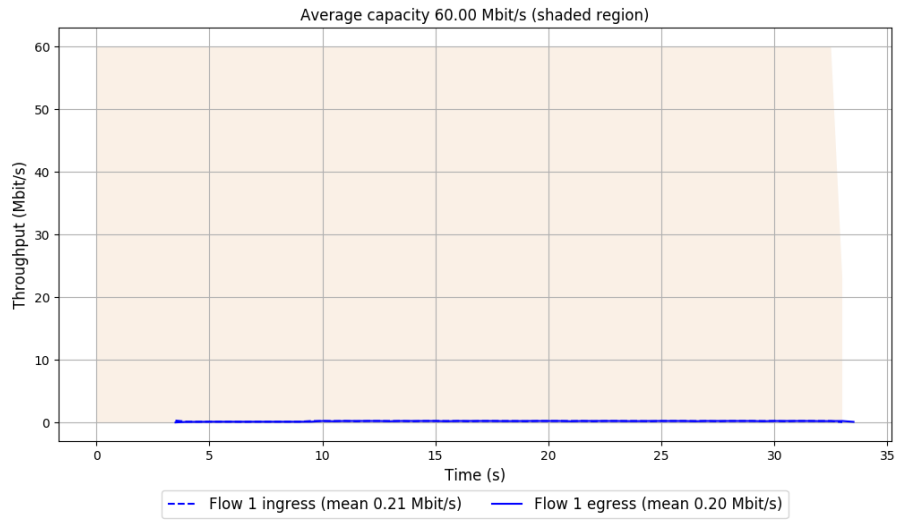
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 52.059 ms

Loss rate: 1.72%

Run 1: Report of Muses_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2020-04-16 05:32:07

End at: 2020-04-16 05:32:37

Below is generated by plot.py at 2020-04-16 06:02:49

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.20 Mbit/s (0.3% utilization)

95th percentile per-packet one-way delay: 52.042 ms

Loss rate: 2.10%

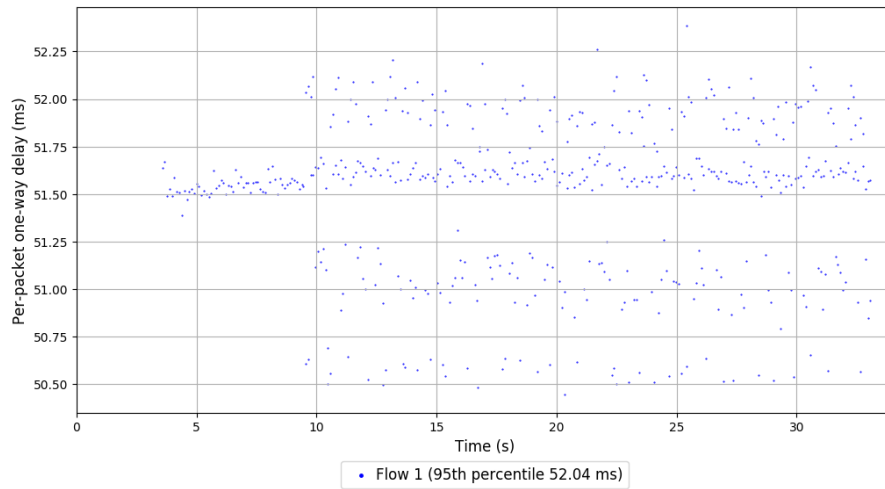
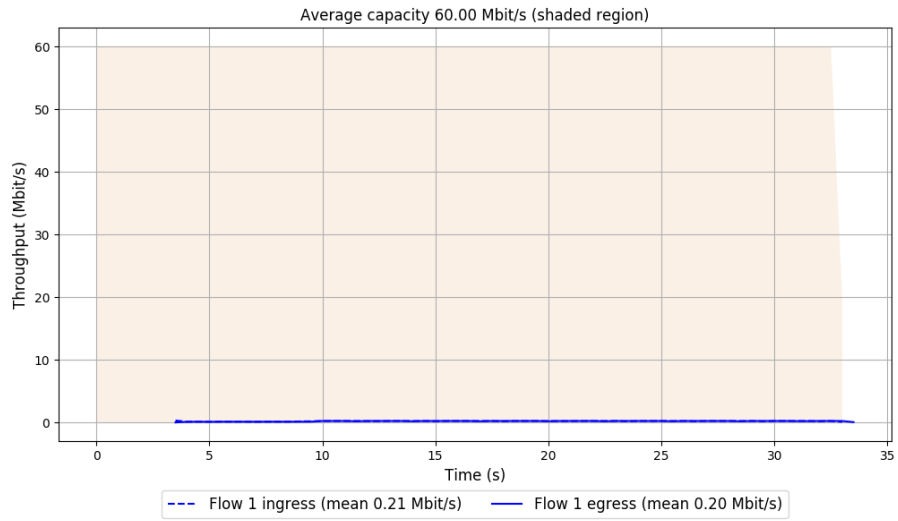
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 52.042 ms

Loss rate: 2.10%

Run 2: Report of Muses_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2020-04-16 05:46:24

End at: 2020-04-16 05:46:54

Below is generated by plot.py at 2020-04-16 06:02:50

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.20 Mbit/s (0.3% utilization)

95th percentile per-packet one-way delay: 52.137 ms

Loss rate: 1.72%

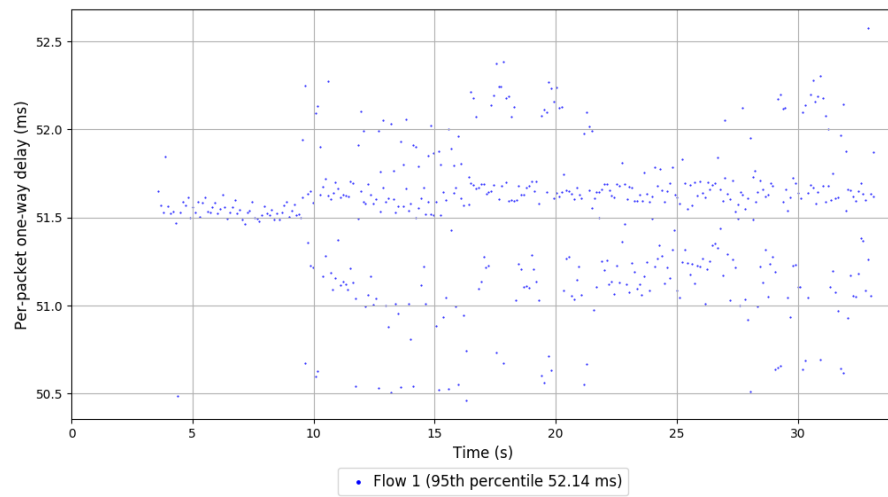
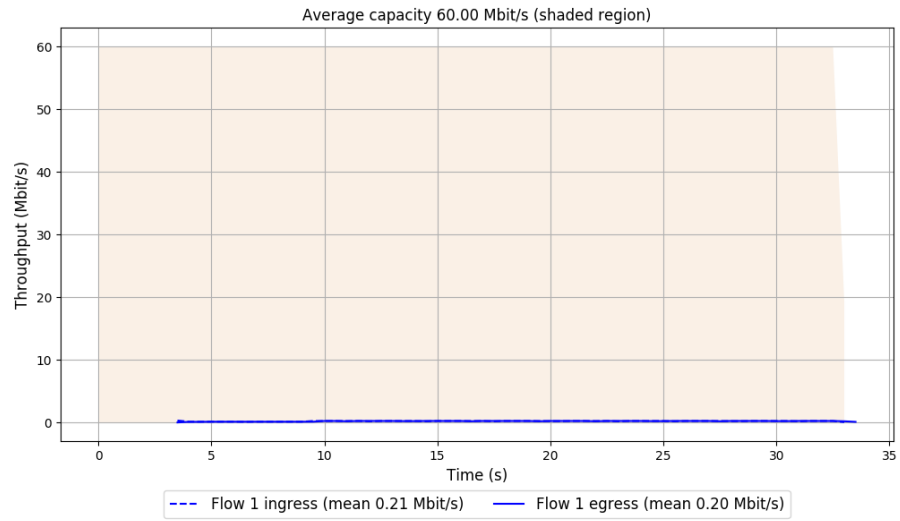
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 52.137 ms

Loss rate: 1.72%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2020-04-16 05:28:33

End at: 2020-04-16 05:29:03

Below is generated by plot.py at 2020-04-16 06:02:59

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 8.47 Mbit/s (14.1% utilization)

95th percentile per-packet one-way delay: 51.936 ms

Loss rate: 2.78%

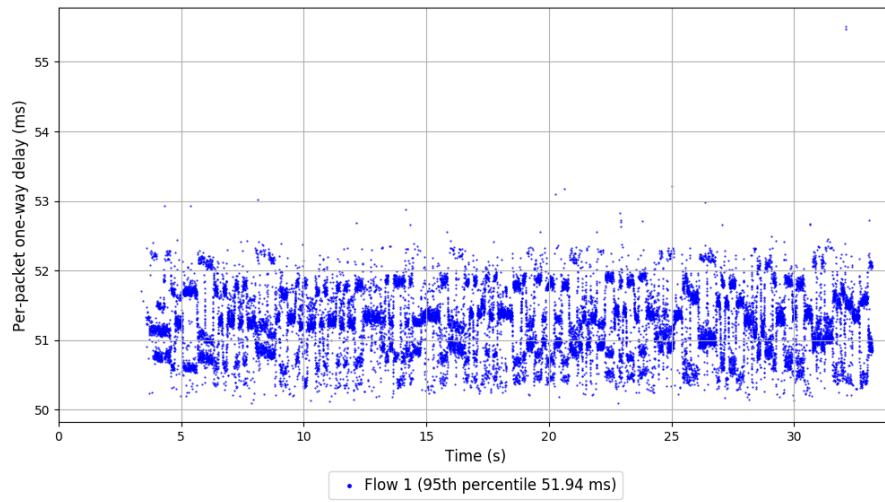
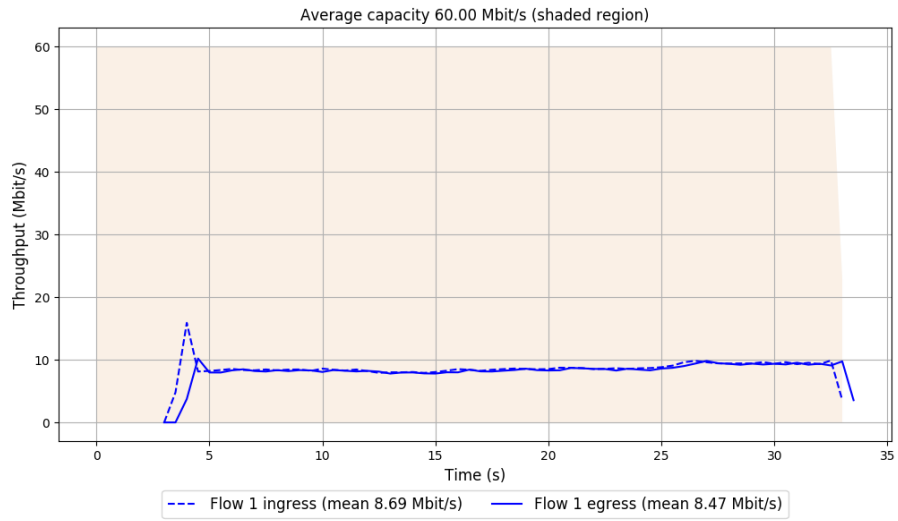
-- Flow 1:

Average throughput: 8.47 Mbit/s

95th percentile per-packet one-way delay: 51.936 ms

Loss rate: 2.78%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2020-04-16 05:42:51

End at: 2020-04-16 05:43:21

Below is generated by plot.py at 2020-04-16 06:02:59

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 4.26 Mbit/s (7.1% utilization)

95th percentile per-packet one-way delay: 51.993 ms

Loss rate: 2.58%

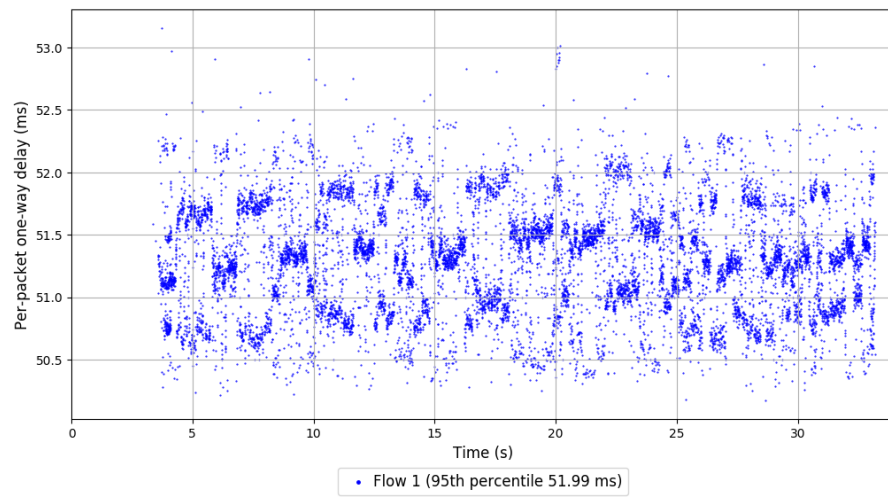
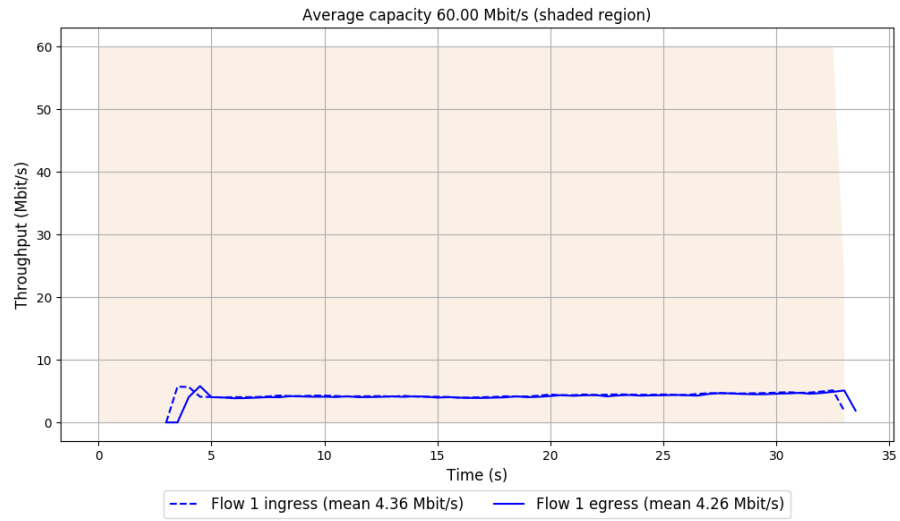
-- Flow 1:

Average throughput: 4.26 Mbit/s

95th percentile per-packet one-way delay: 51.993 ms

Loss rate: 2.58%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2020-04-16 05:57:14

End at: 2020-04-16 05:57:44

Below is generated by plot.py at 2020-04-16 06:03:00

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 7.91 Mbit/s (13.2% utilization)

95th percentile per-packet one-way delay: 52.041 ms

Loss rate: 3.15%

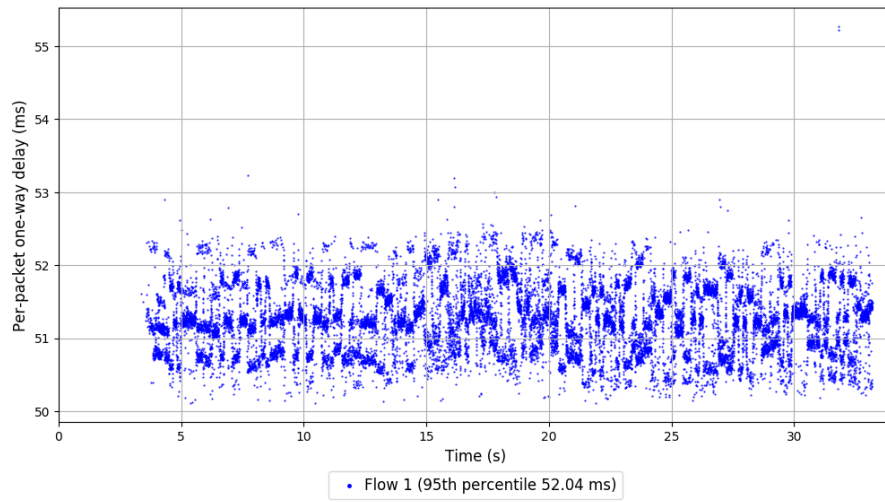
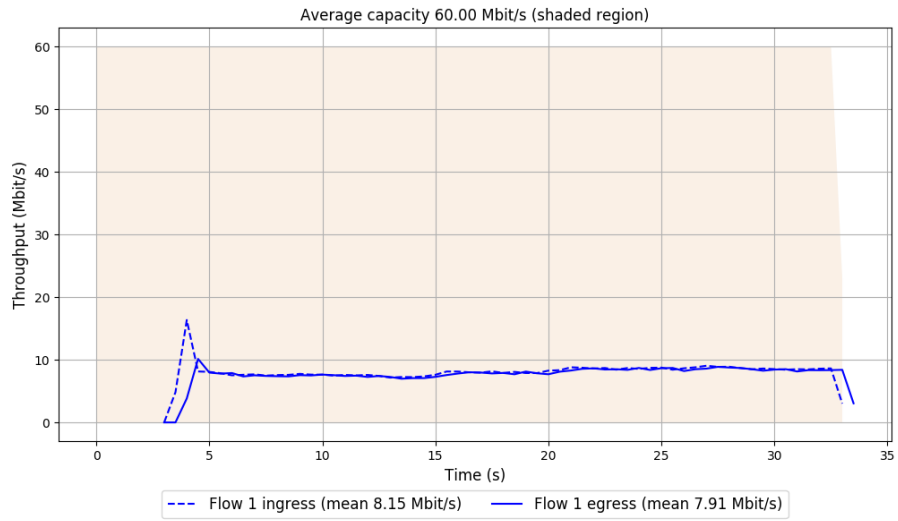
-- Flow 1:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 52.041 ms

Loss rate: 3.15%

Run 3: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2020-04-16 05:27:10

End at: 2020-04-16 05:27:40

Below is generated by plot.py at 2020-04-16 06:04:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 8.44 Mbit/s (14.1% utilization)

95th percentile per-packet one-way delay: 51.531 ms

Loss rate: 97.83%

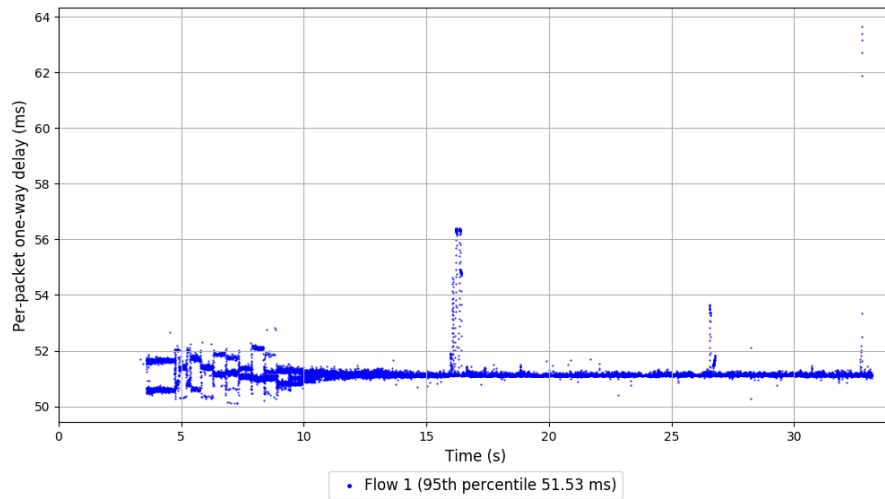
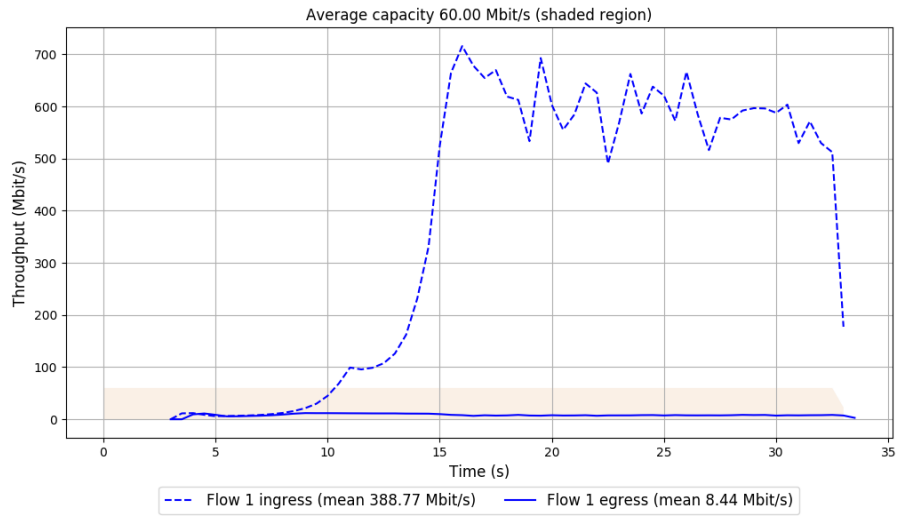
-- Flow 1:

Average throughput: 8.44 Mbit/s

95th percentile per-packet one-way delay: 51.531 ms

Loss rate: 97.83%

Run 1: Report of PCC-Expr — Data Link

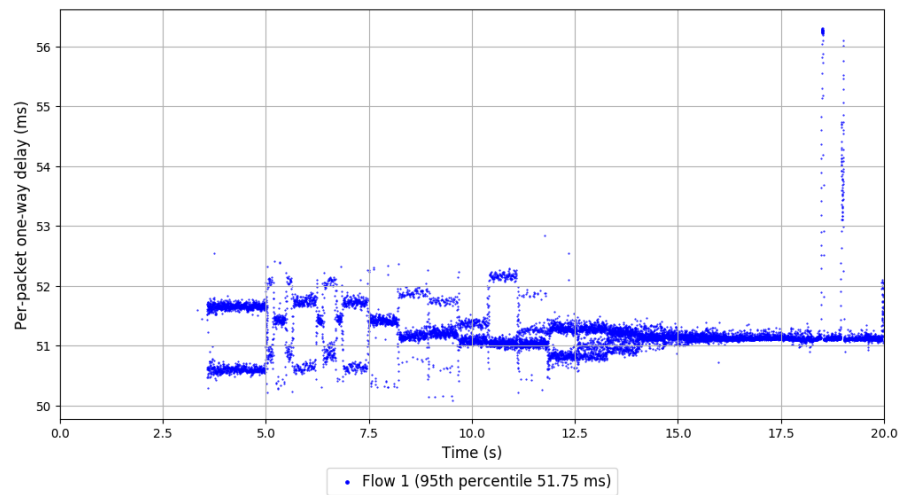
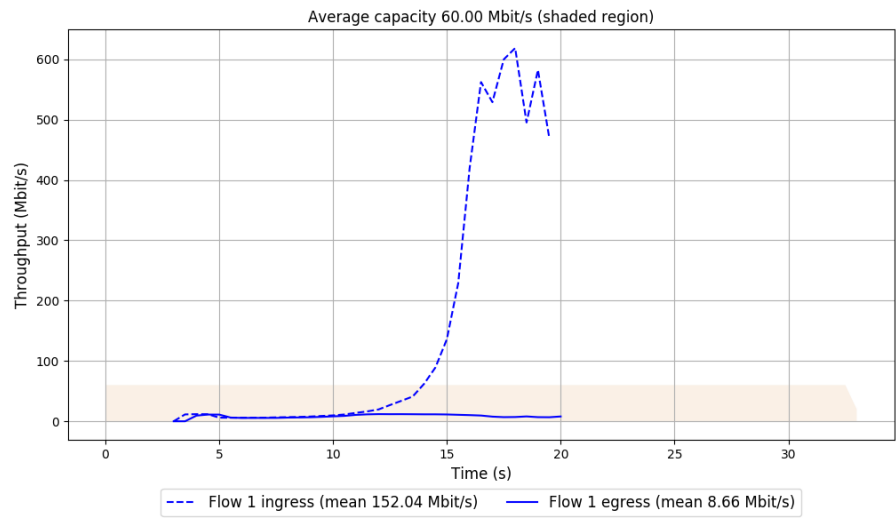


Run 2: Statistics of PCC-Expr

Start at: 2020-04-16 05:41:37

End at: 2020-04-16 05:42:07

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2020-04-16 05:55:54

End at: 2020-04-16 05:56:24

Below is generated by plot.py at 2020-04-16 06:04:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 9.00 Mbit/s (15.0% utilization)

95th percentile per-packet one-way delay: 51.636 ms

Loss rate: 96.59%

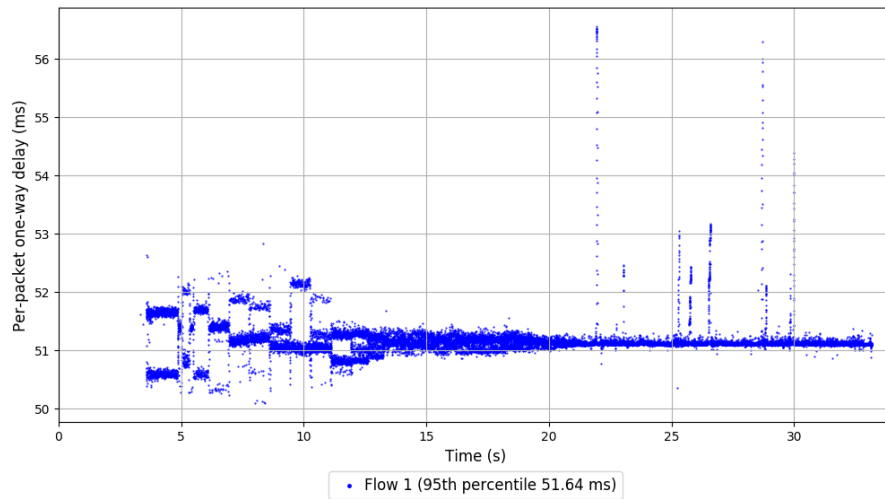
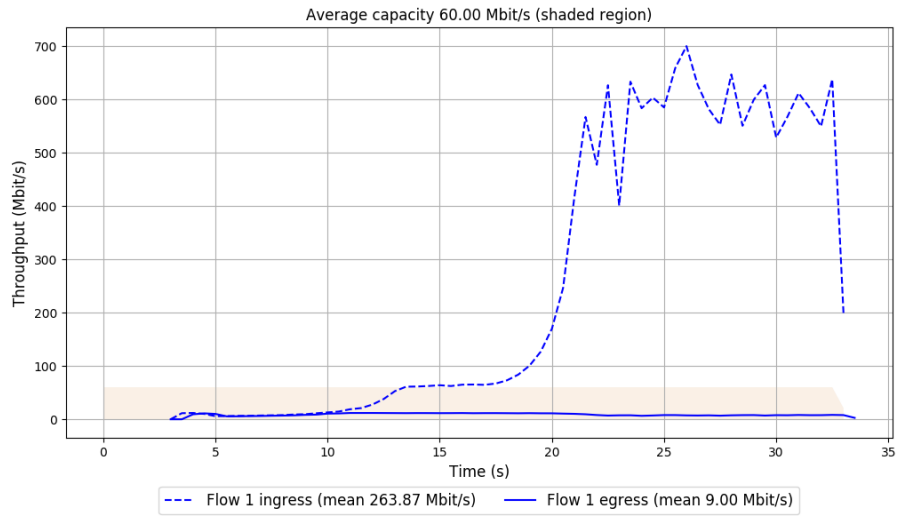
-- Flow 1:

Average throughput: 9.00 Mbit/s

95th percentile per-packet one-way delay: 51.636 ms

Loss rate: 96.59%

Run 3: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2020-04-16 05:18:15

End at: 2020-04-16 05:18:45

Below is generated by plot.py at 2020-04-16 06:04:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 3.31 Mbit/s (5.5% utilization)

95th percentile per-packet one-way delay: 52.036 ms

Loss rate: 1.34%

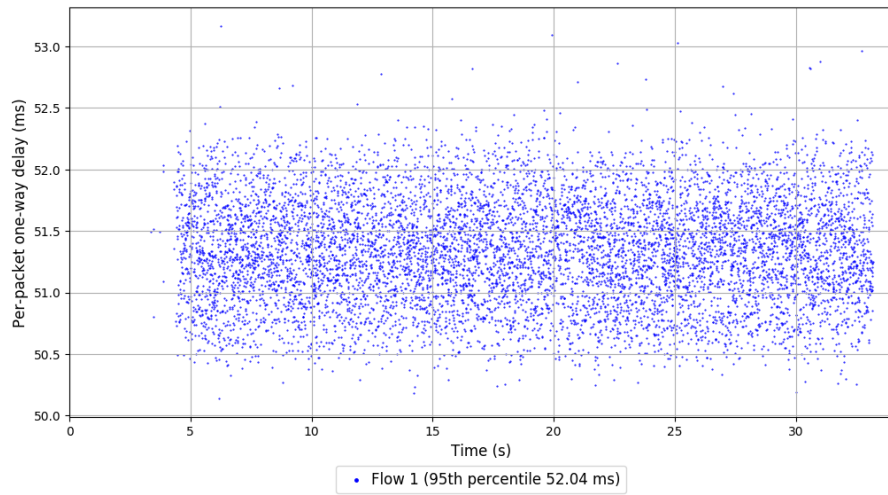
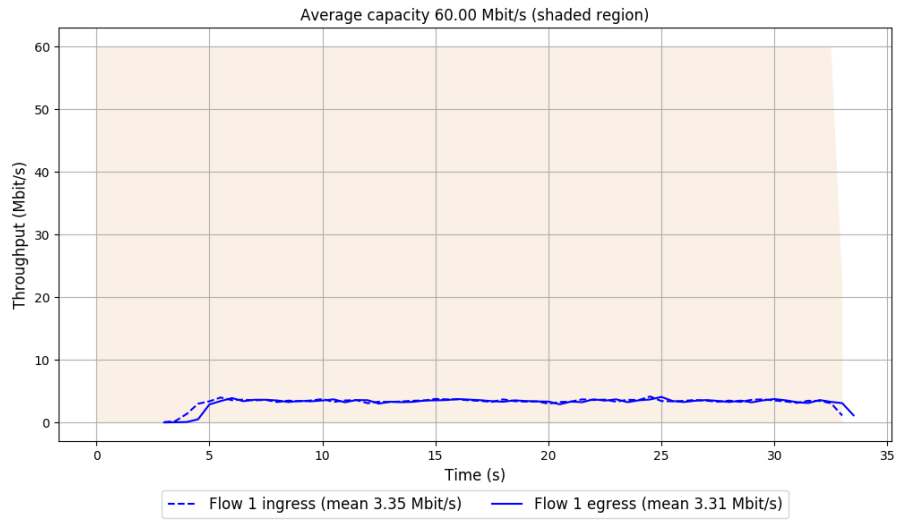
-- Flow 1:

Average throughput: 3.31 Mbit/s

95th percentile per-packet one-way delay: 52.036 ms

Loss rate: 1.34%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2020-04-16 05:32:42

End at: 2020-04-16 05:33:12

Below is generated by plot.py at 2020-04-16 06:04:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 3.30 Mbit/s (5.5% utilization)

95th percentile per-packet one-way delay: 52.055 ms

Loss rate: 1.49%

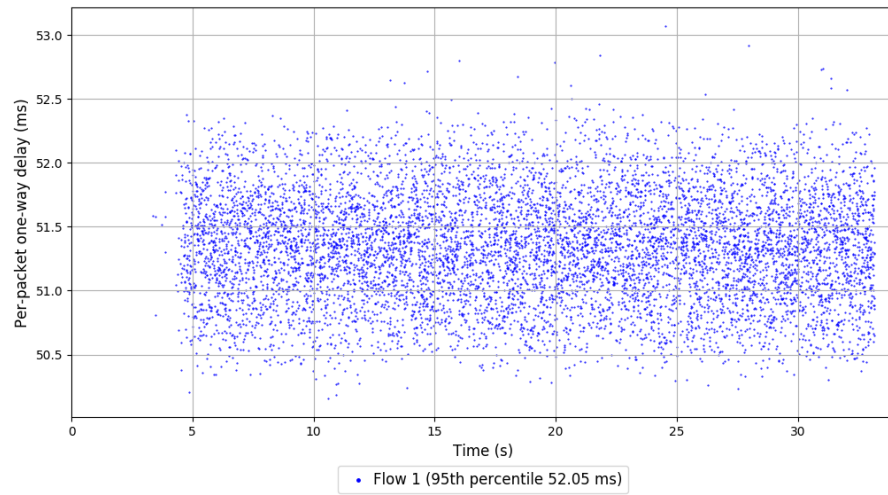
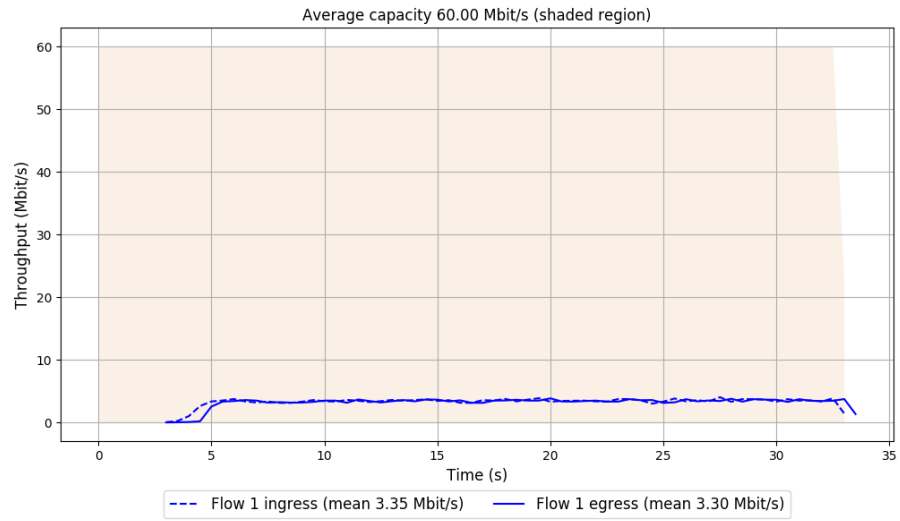
-- Flow 1:

Average throughput: 3.30 Mbit/s

95th percentile per-packet one-way delay: 52.055 ms

Loss rate: 1.49%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2020-04-16 05:47:00

End at: 2020-04-16 05:47:30

Below is generated by plot.py at 2020-04-16 06:04:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 3.24 Mbit/s (5.4% utilization)

95th percentile per-packet one-way delay: 52.129 ms

Loss rate: 1.42%

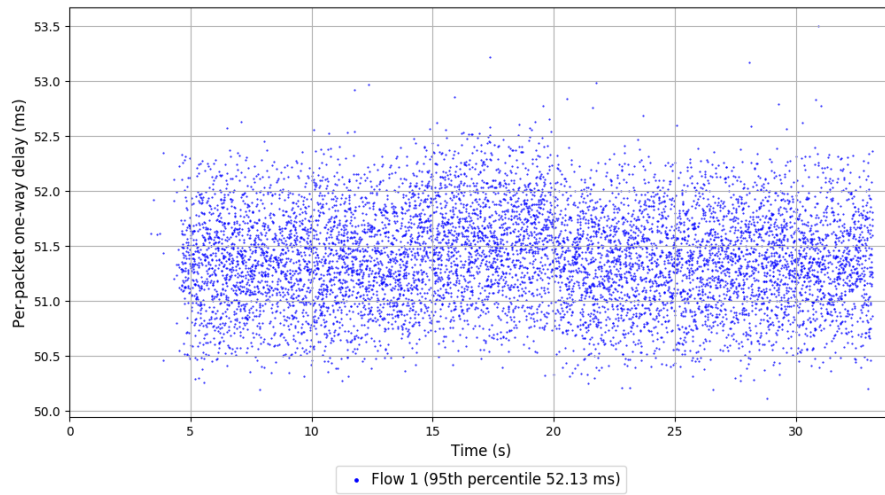
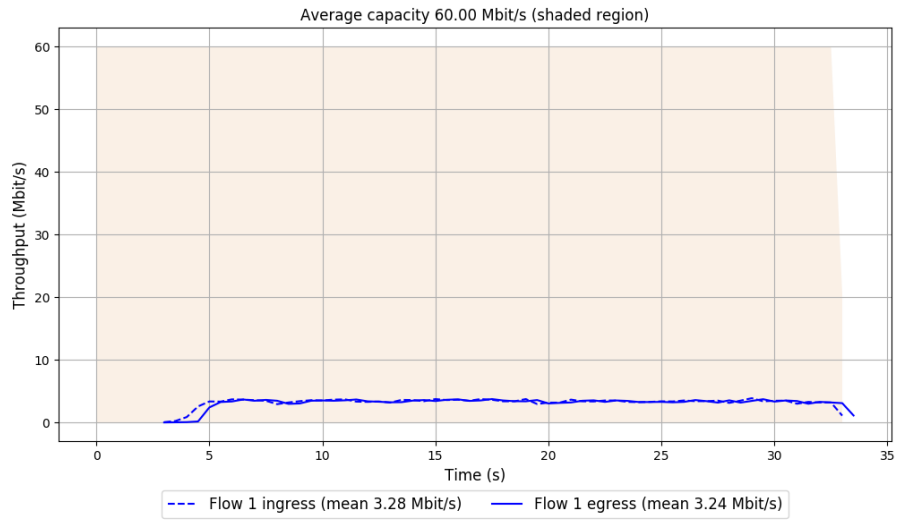
-- Flow 1:

Average throughput: 3.24 Mbit/s

95th percentile per-packet one-way delay: 52.129 ms

Loss rate: 1.42%

Run 3: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2020-04-16 05:22:59

End at: 2020-04-16 05:23:29

Below is generated by plot.py at 2020-04-16 06:04:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.21 Mbit/s (0.4% utilization)

95th percentile per-packet one-way delay: 51.776 ms

Loss rate: 0.13%

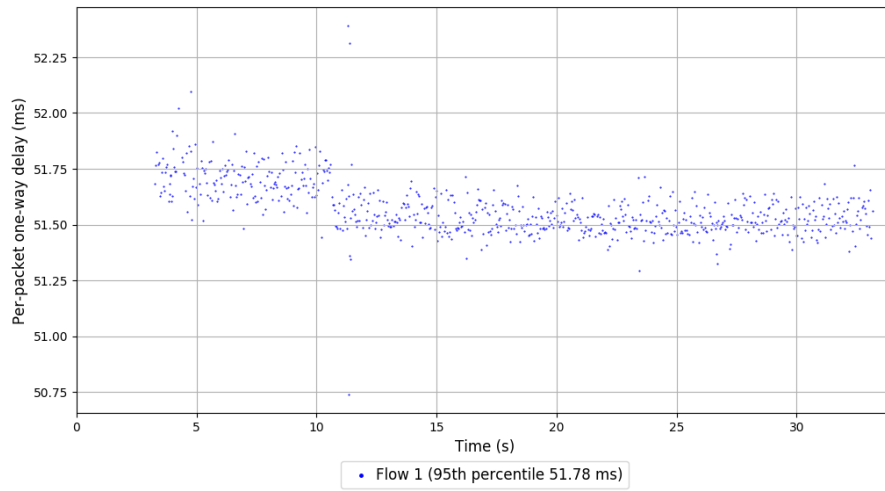
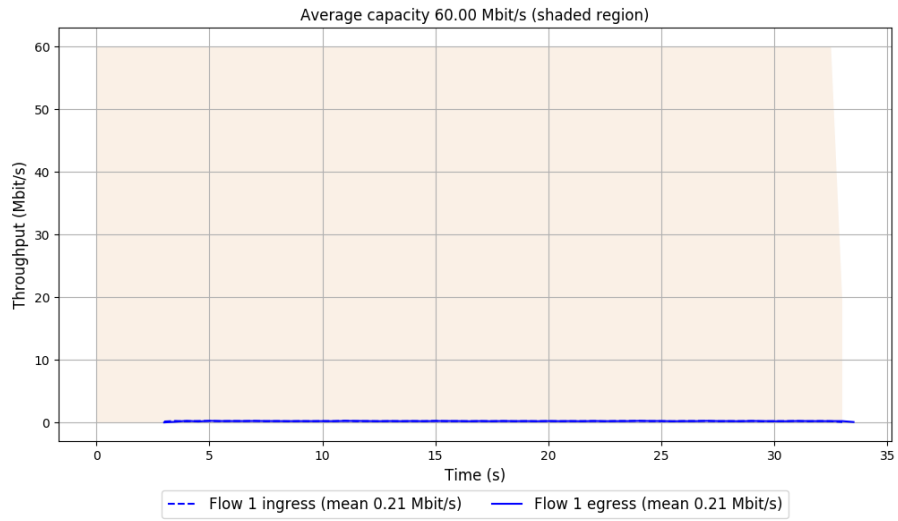
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 51.776 ms

Loss rate: 0.13%

Run 1: Report of SCReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2020-04-16 05:37:27

End at: 2020-04-16 05:37:57

Below is generated by plot.py at 2020-04-16 06:04:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.21 Mbit/s (0.4% utilization)

95th percentile per-packet one-way delay: 51.623 ms

Loss rate: 0.13%

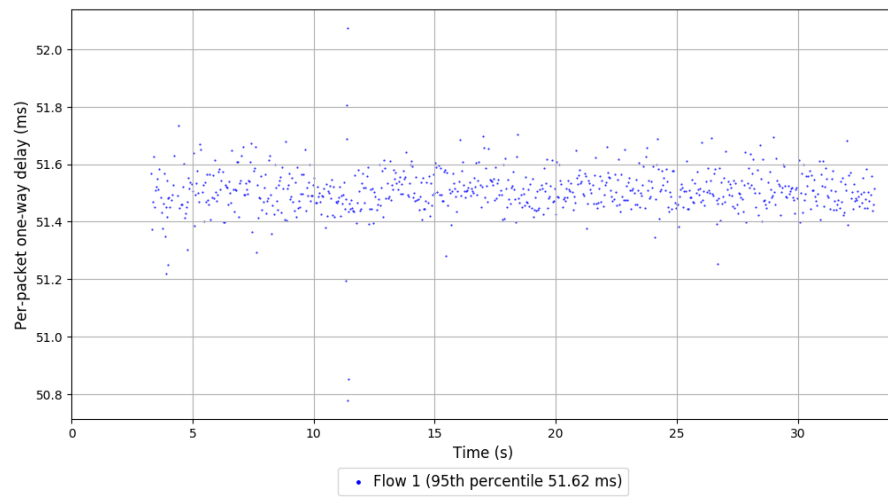
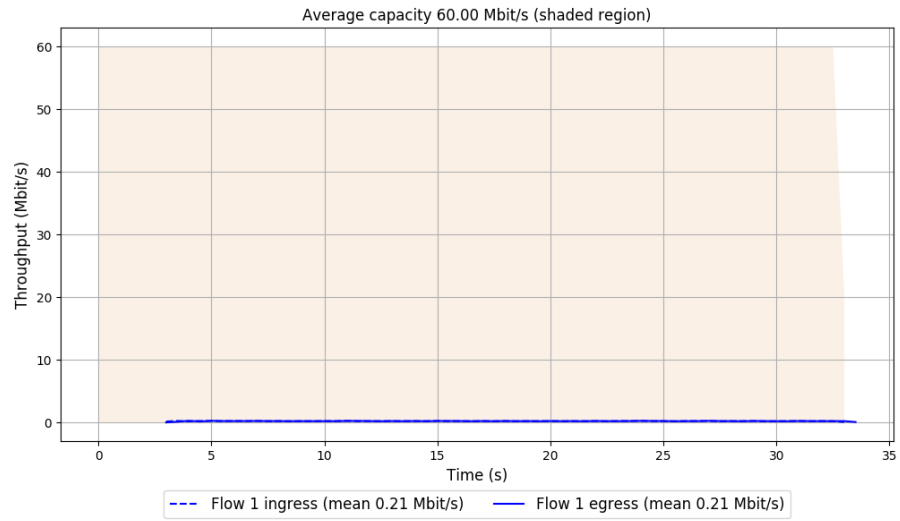
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 51.623 ms

Loss rate: 0.13%

Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2020-04-16 05:51:44

End at: 2020-04-16 05:52:14

Below is generated by plot.py at 2020-04-16 06:04:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.15 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 51.619 ms

Loss rate: 0.31%

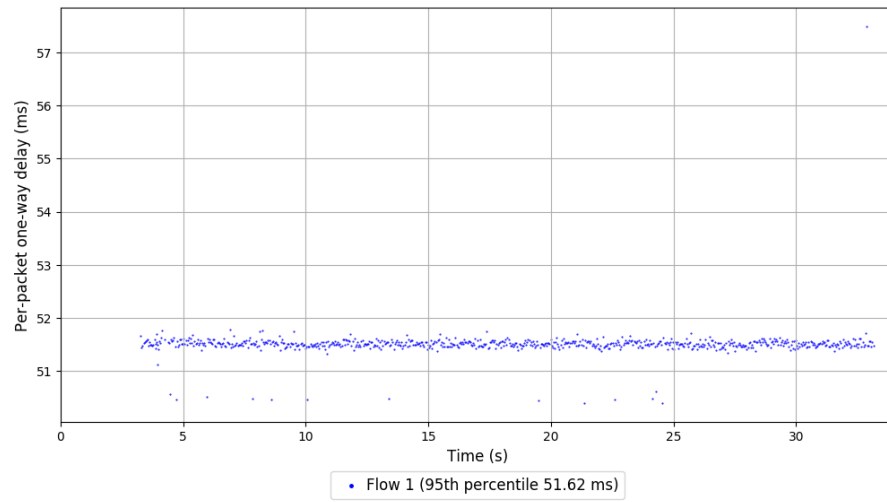
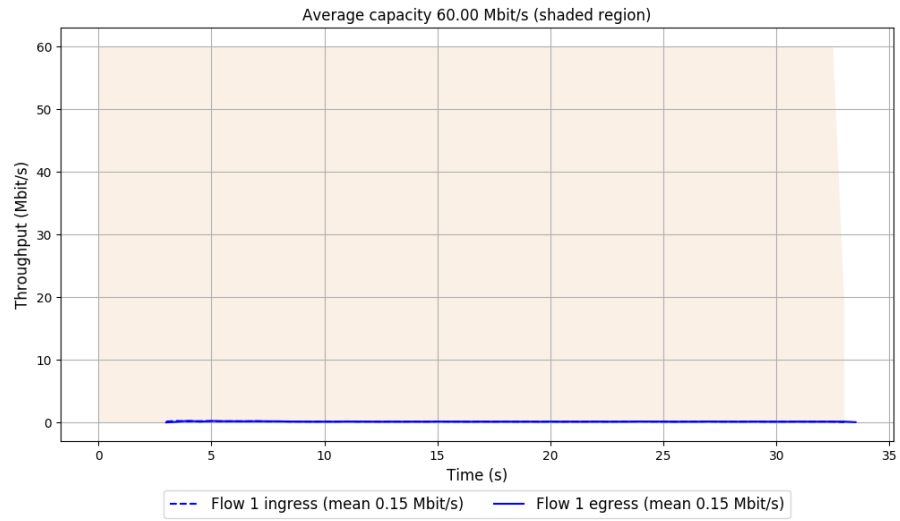
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 51.619 ms

Loss rate: 0.31%

Run 3: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2020-04-16 05:26:34

End at: 2020-04-16 05:27:04

Below is generated by plot.py at 2020-04-16 06:04:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.19 Mbit/s (0.3% utilization)

95th percentile per-packet one-way delay: 52.181 ms

Loss rate: 8.30%

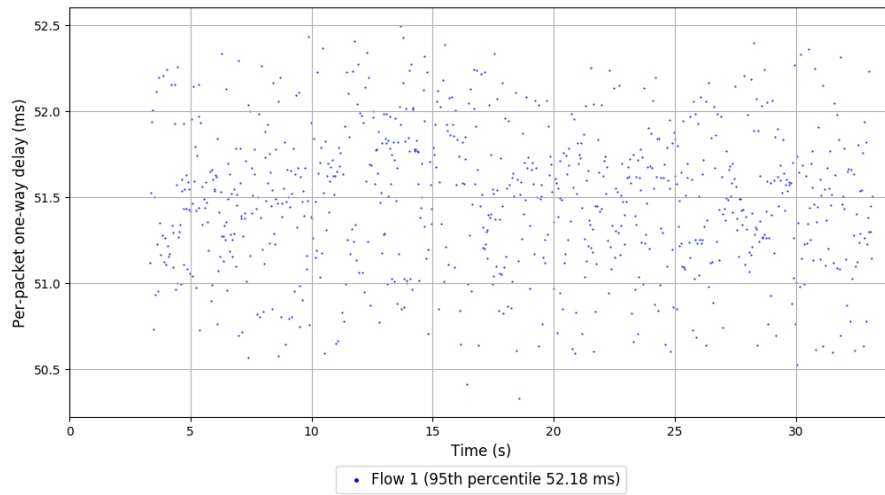
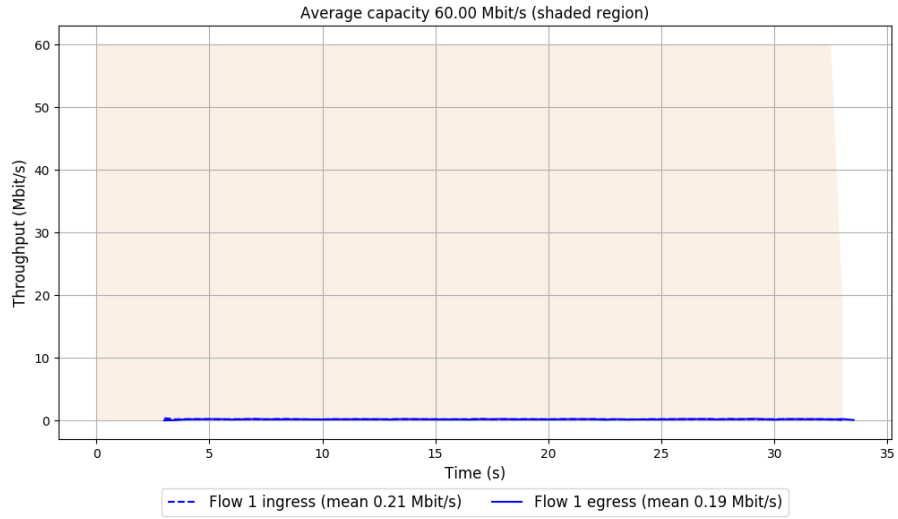
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 52.181 ms

Loss rate: 8.30%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2020-04-16 05:41:01

End at: 2020-04-16 05:41:31

Below is generated by plot.py at 2020-04-16 06:04:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.19 Mbit/s (0.3% utilization)

95th percentile per-packet one-way delay: 52.108 ms

Loss rate: 10.57%

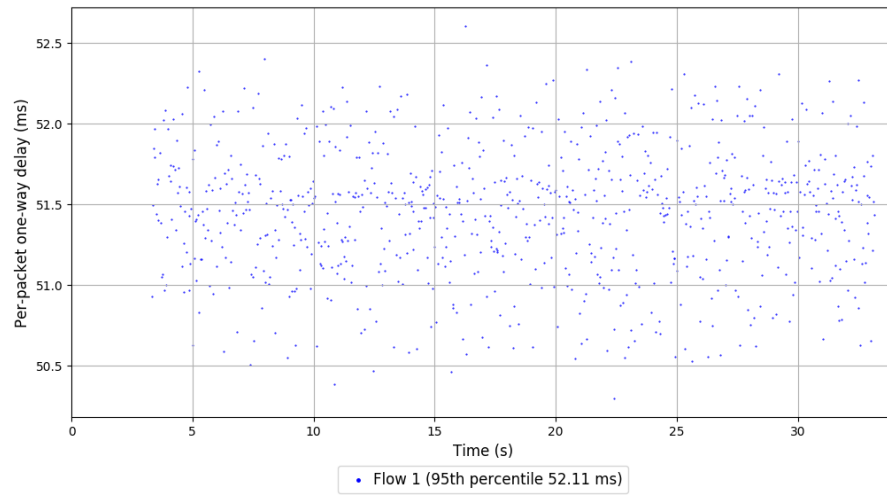
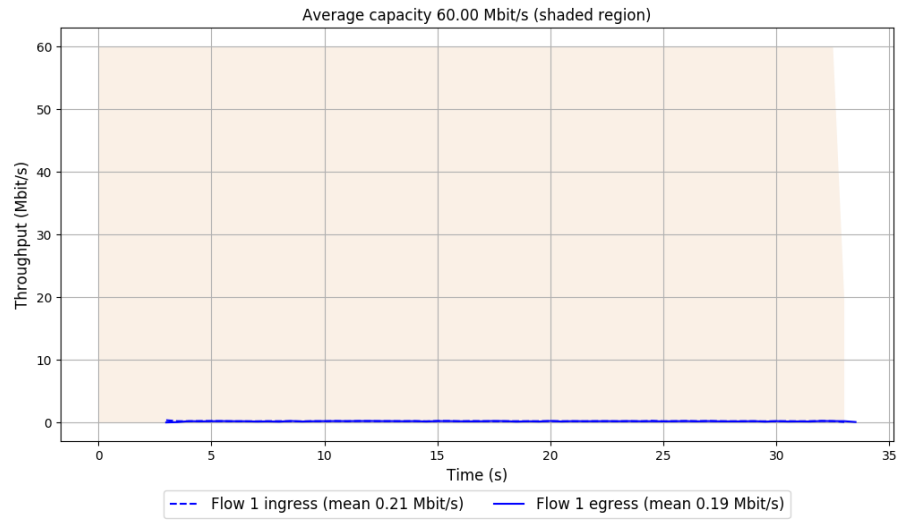
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 52.108 ms

Loss rate: 10.57%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2020-04-16 05:55:19

End at: 2020-04-16 05:55:49

Below is generated by plot.py at 2020-04-16 06:04:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.19 Mbit/s (0.3% utilization)

95th percentile per-packet one-way delay: 52.123 ms

Loss rate: 8.25%

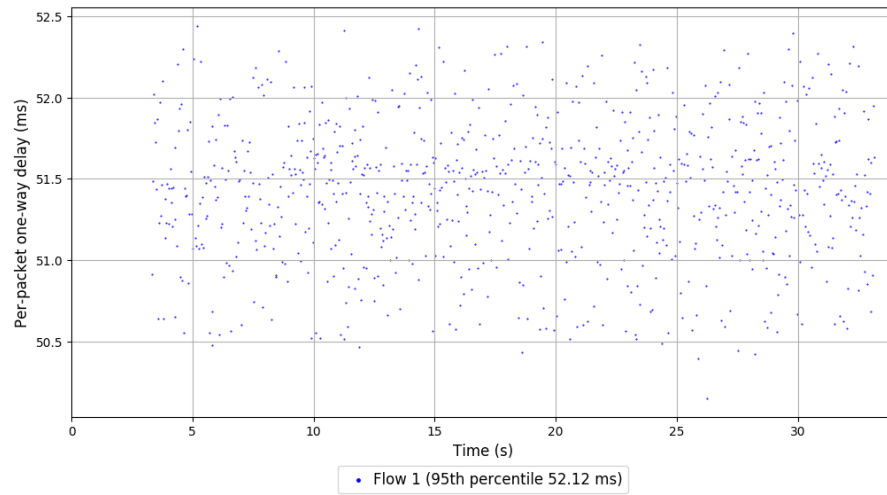
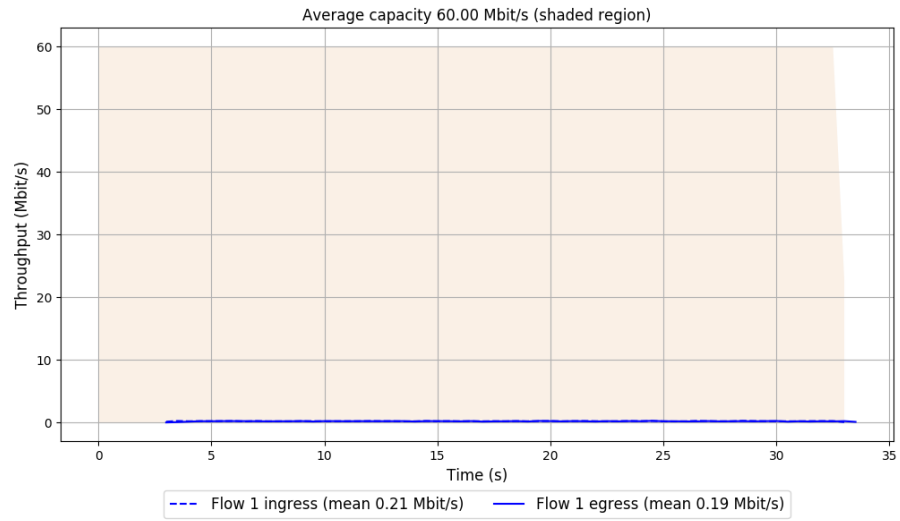
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 52.123 ms

Loss rate: 8.25%

Run 3: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2020-04-16 05:18:51

End at: 2020-04-16 05:19:21

Below is generated by plot.py at 2020-04-16 06:04:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.01 Mbit/s (0.0% utilization)

95th percentile per-packet one-way delay: 51.649 ms

Loss rate: 51.91%

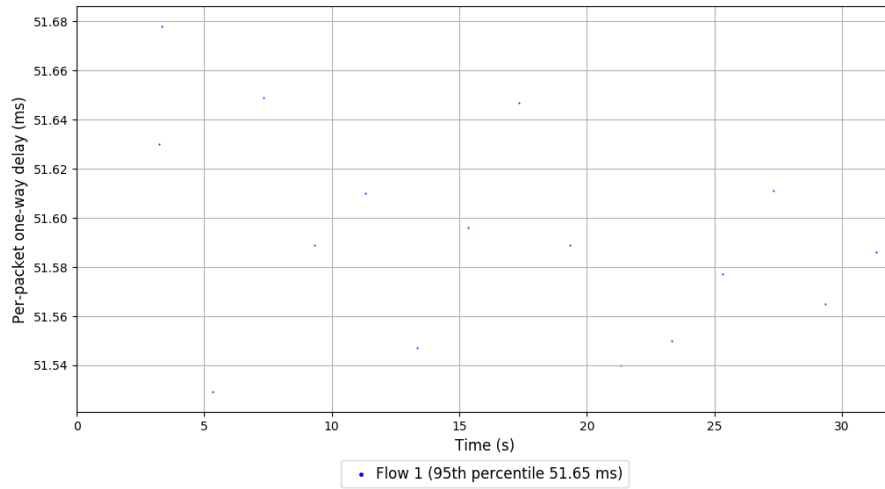
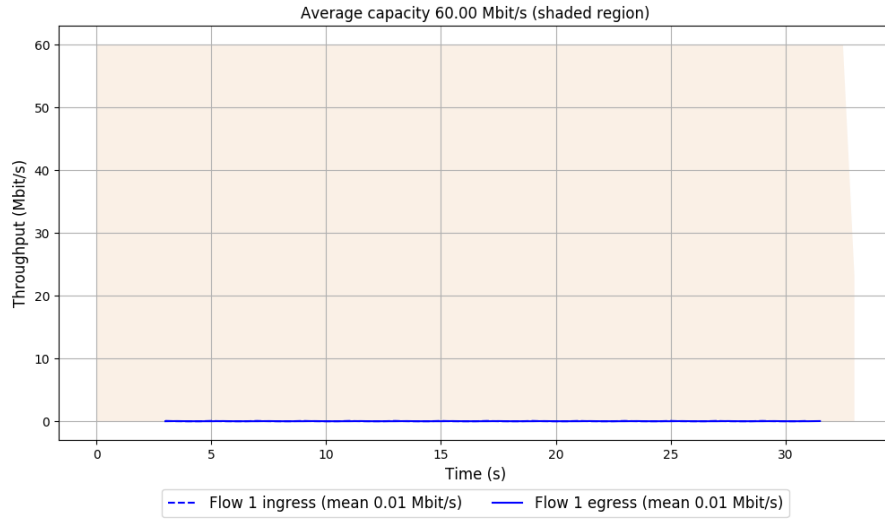
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 51.649 ms

Loss rate: 51.91%

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



Run 2: Statistics of TaoVA-100x

Start at: 2020-04-16 05:33:18

End at: 2020-04-16 05:33:48

Below is generated by plot.py at 2020-04-16 06:04:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.01 Mbit/s (0.0% utilization)

95th percentile per-packet one-way delay: 51.729 ms

Loss rate: 51.91%

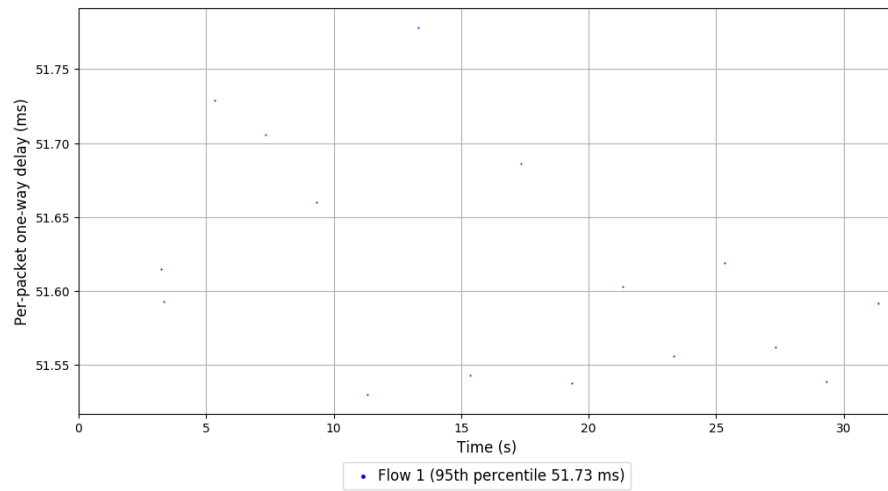
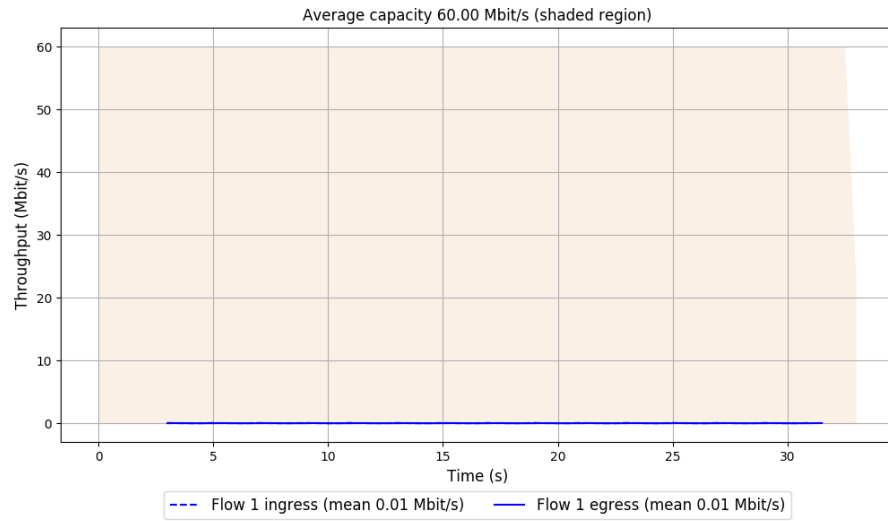
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 51.729 ms

Loss rate: 51.91%

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



Run 3: Statistics of TaoVA-100x

Start at: 2020-04-16 05:47:35

End at: 2020-04-16 05:48:05

Below is generated by plot.py at 2020-04-16 06:04:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.01 Mbit/s (0.0% utilization)

95th percentile per-packet one-way delay: 51.632 ms

Loss rate: 51.91%

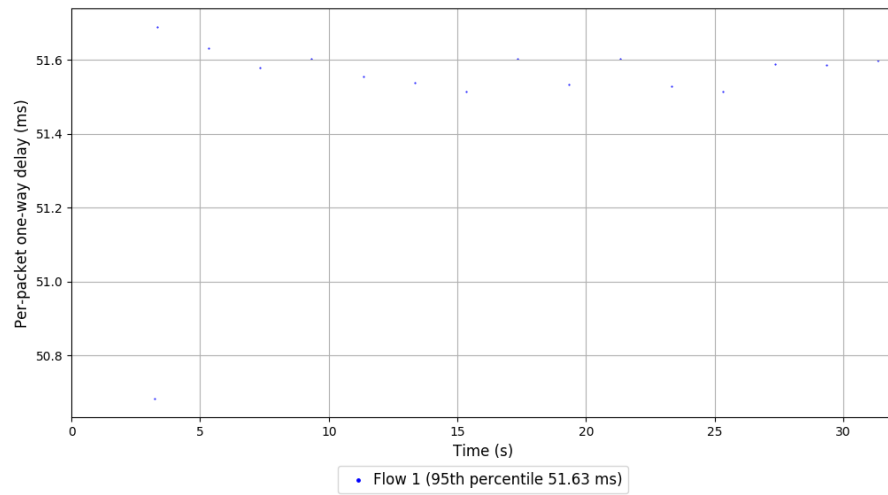
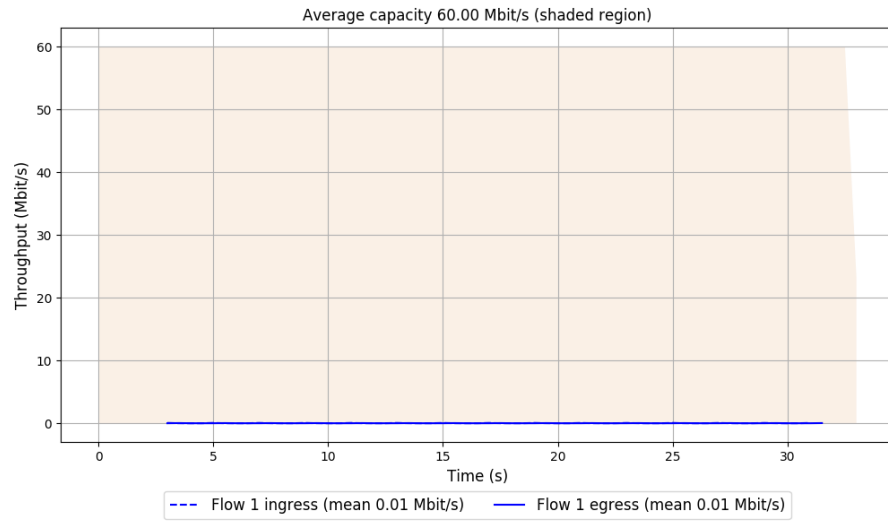
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 51.632 ms

Loss rate: 51.91%

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



Run 1: Statistics of TCP Vegas

Start at: 2020-04-16 05:24:47

End at: 2020-04-16 05:25:17

Below is generated by plot.py at 2020-04-16 06:04:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.26 Mbit/s (0.4% utilization)

95th percentile per-packet one-way delay: 51.917 ms

Loss rate: 14.02%

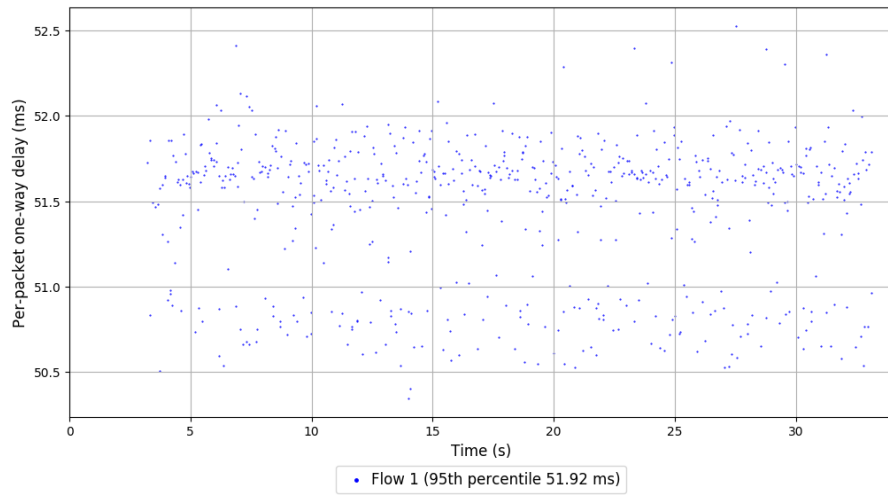
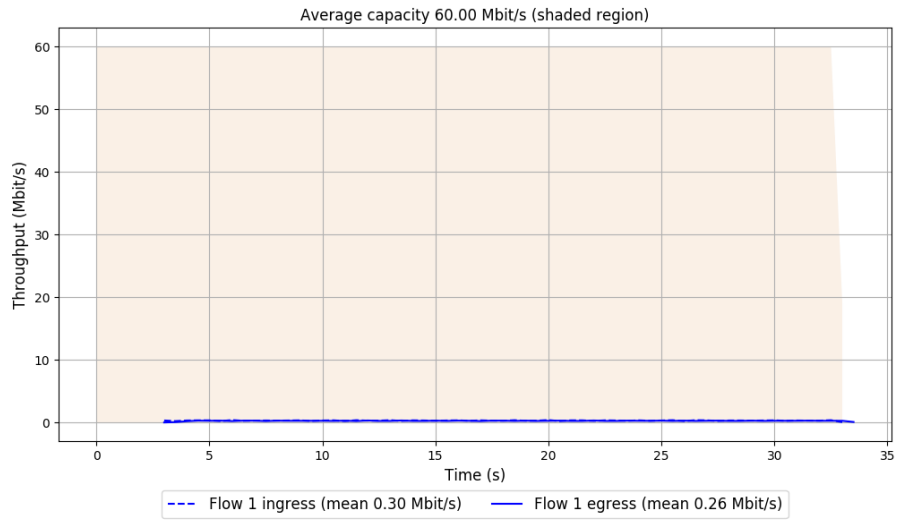
-- Flow 1:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 51.917 ms

Loss rate: 14.02%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2020-04-16 05:39:15

End at: 2020-04-16 05:39:45

Below is generated by plot.py at 2020-04-16 06:04:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.26 Mbit/s (0.4% utilization)

95th percentile per-packet one-way delay: 52.005 ms

Loss rate: 14.25%

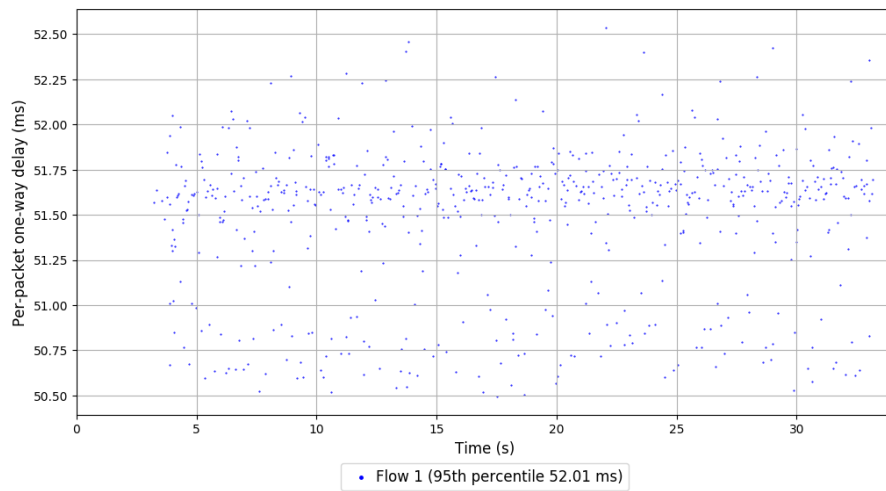
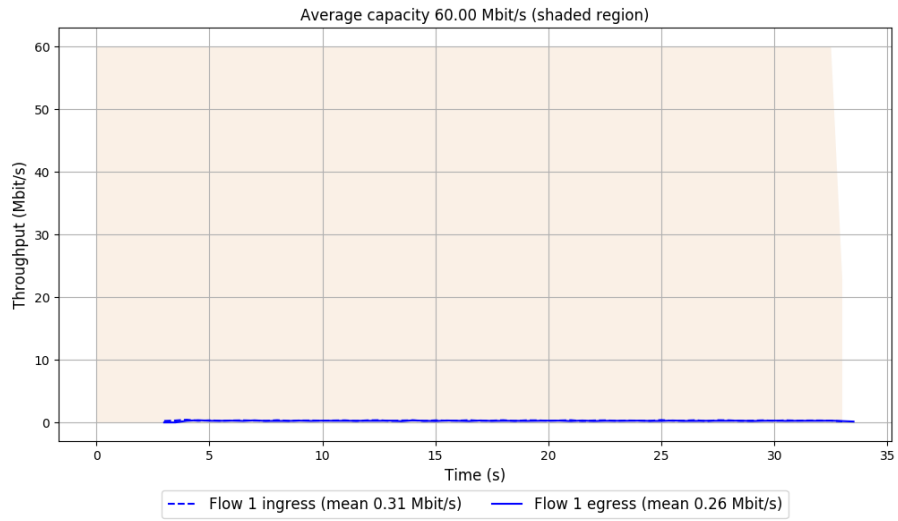
-- Flow 1:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 52.005 ms

Loss rate: 14.25%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2020-04-16 05:53:32

End at: 2020-04-16 05:54:02

Below is generated by plot.py at 2020-04-16 06:04:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.27 Mbit/s (0.4% utilization)

95th percentile per-packet one-way delay: 51.991 ms

Loss rate: 14.15%

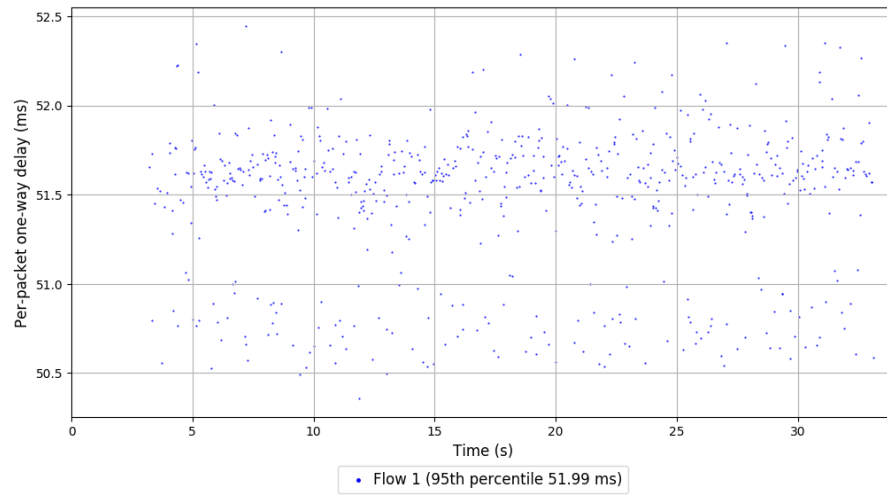
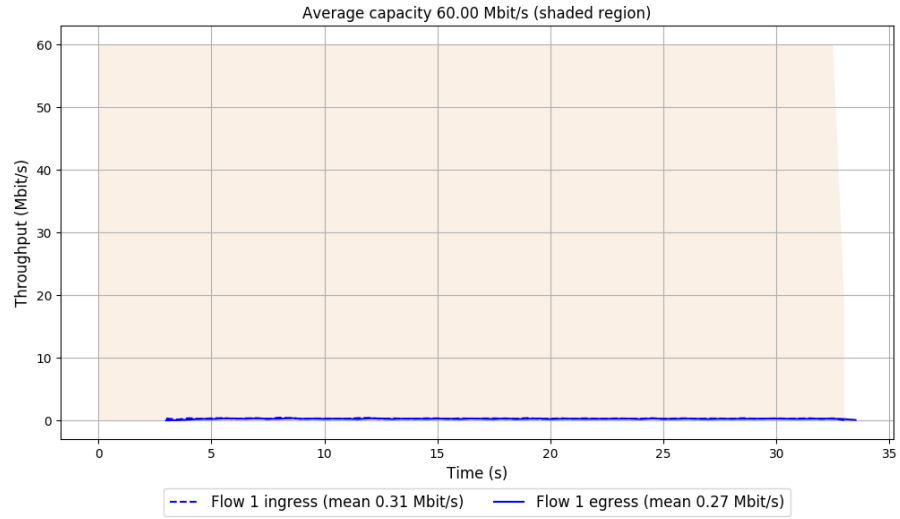
-- Flow 1:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 51.991 ms

Loss rate: 14.15%

Run 3: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2020-04-16 05:29:08

End at: 2020-04-16 05:29:38

Below is generated by plot.py at 2020-04-16 06:04:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.68 Mbit/s (1.1% utilization)

95th percentile per-packet one-way delay: 52.135 ms

Loss rate: 98.59%

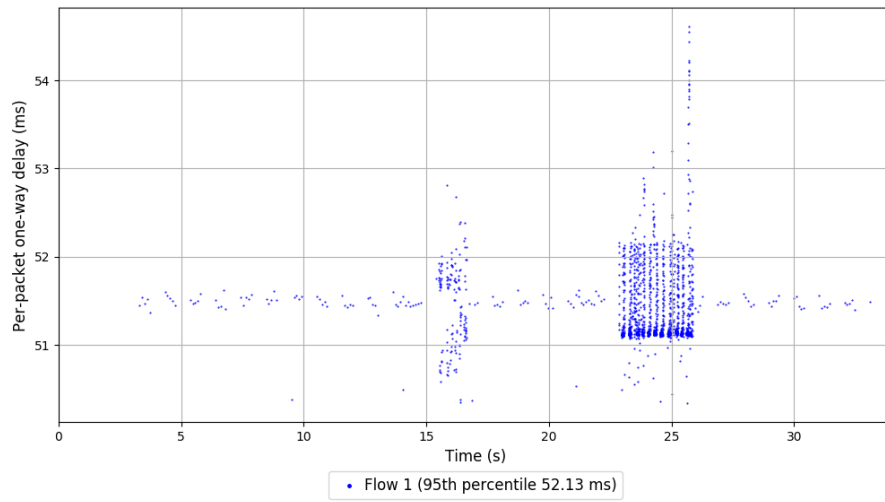
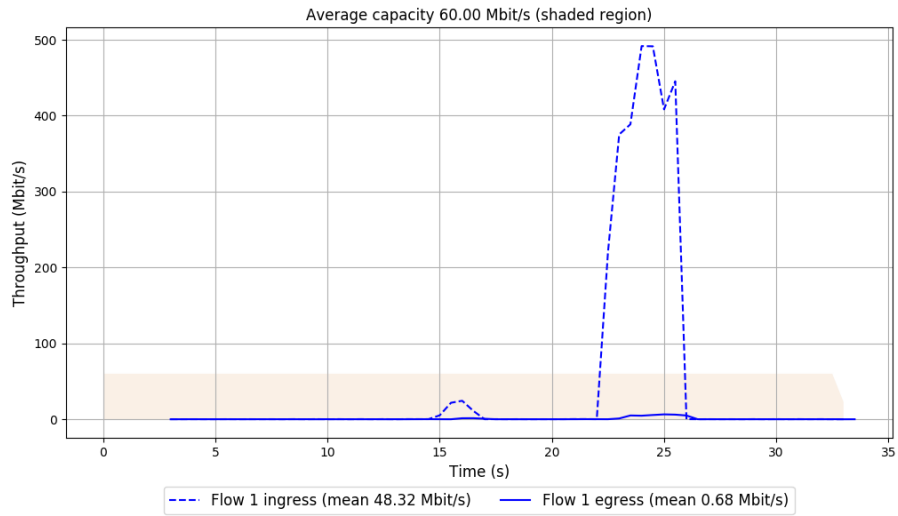
-- Flow 1:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 52.135 ms

Loss rate: 98.59%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2020-04-16 05:43:26

End at: 2020-04-16 05:43:56

Below is generated by plot.py at 2020-04-16 06:04:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.06 Mbit/s (0.1% utilization)

95th percentile per-packet one-way delay: 51.758 ms

Loss rate: 44.44%

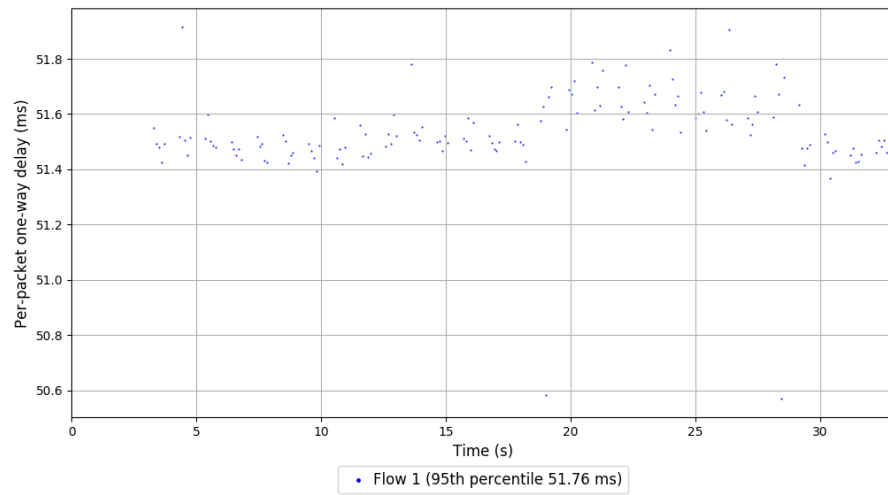
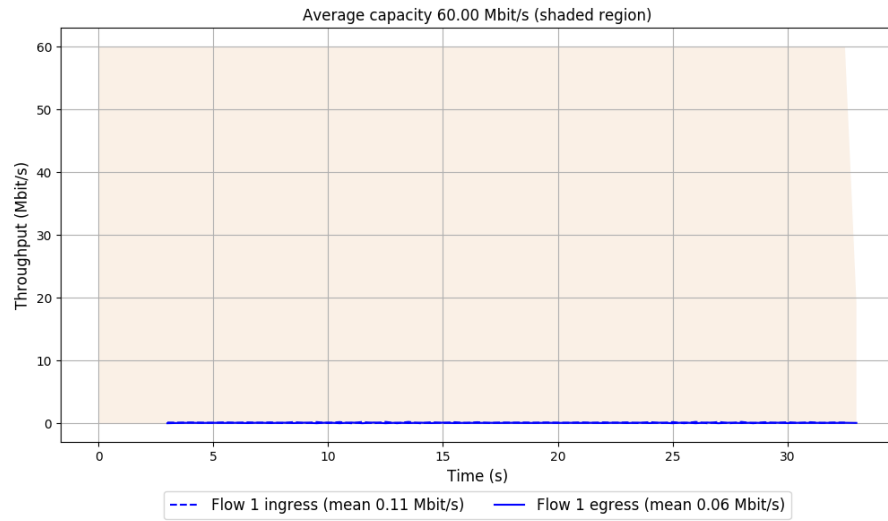
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 51.758 ms

Loss rate: 44.44%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2020-04-16 05:57:50

End at: 2020-04-16 05:58:20

Below is generated by plot.py at 2020-04-16 06:04:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 3.23 Mbit/s (5.4% utilization)

95th percentile per-packet one-way delay: 52.135 ms

Loss rate: 98.34%

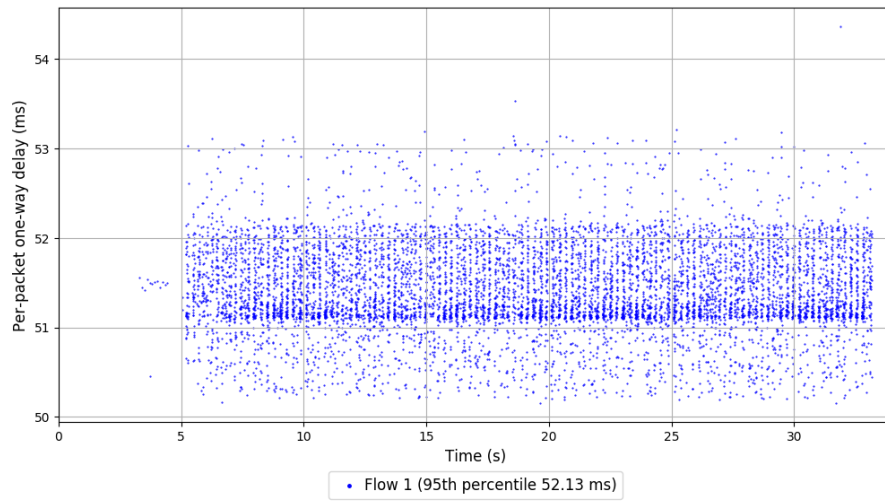
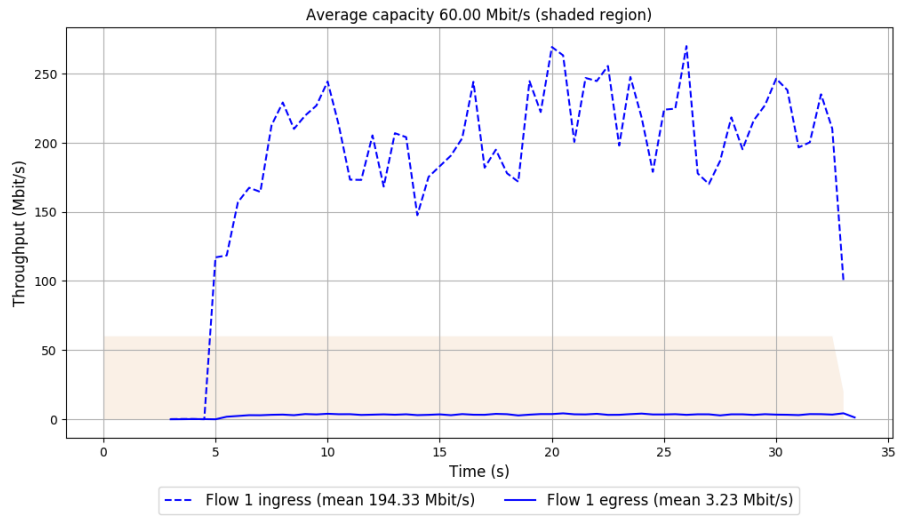
-- Flow 1:

Average throughput: 3.23 Mbit/s

95th percentile per-packet one-way delay: 52.135 ms

Loss rate: 98.34%

Run 3: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2020-04-16 05:22:23

End at: 2020-04-16 05:22:53

Below is generated by plot.py at 2020-04-16 06:04:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 5.46 Mbit/s (9.1% utilization)

95th percentile per-packet one-way delay: 52.007 ms

Loss rate: 0.61%

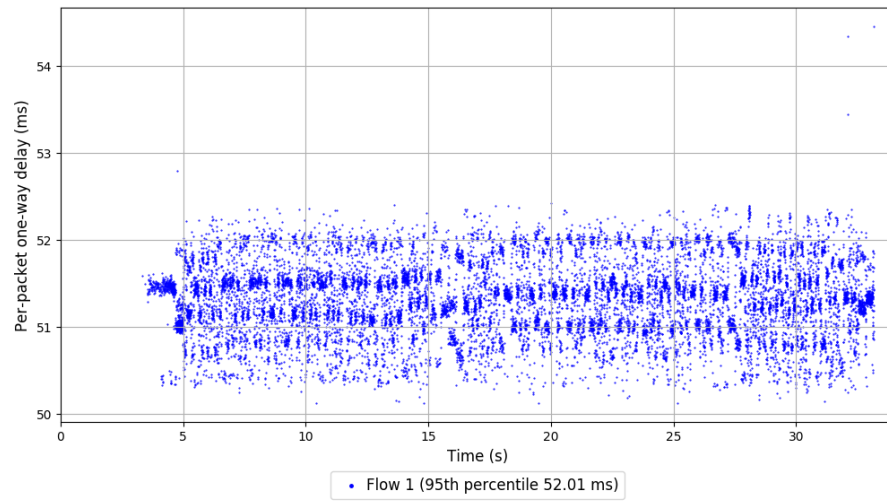
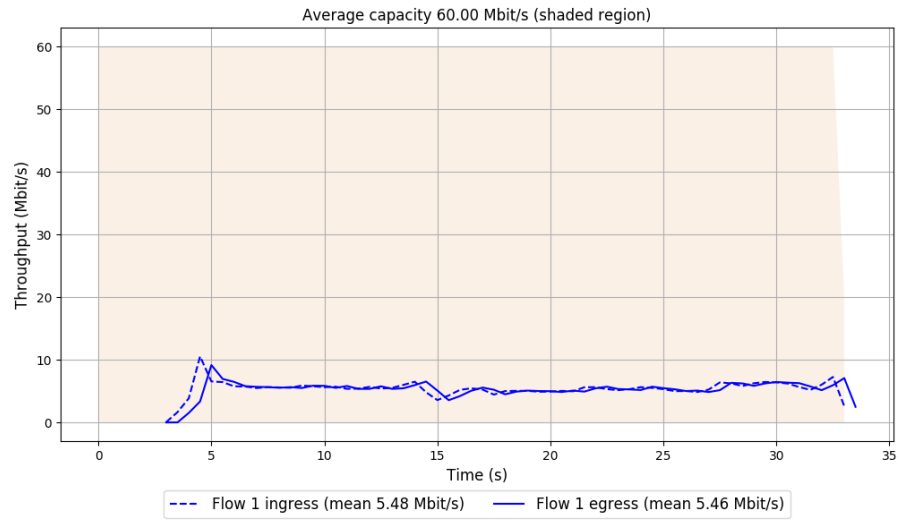
-- Flow 1:

Average throughput: 5.46 Mbit/s

95th percentile per-packet one-way delay: 52.007 ms

Loss rate: 0.61%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2020-04-16 05:36:51

End at: 2020-04-16 05:37:21

Below is generated by plot.py at 2020-04-16 06:04:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 5.56 Mbit/s (9.3% utilization)

95th percentile per-packet one-way delay: 52.033 ms

Loss rate: 0.54%

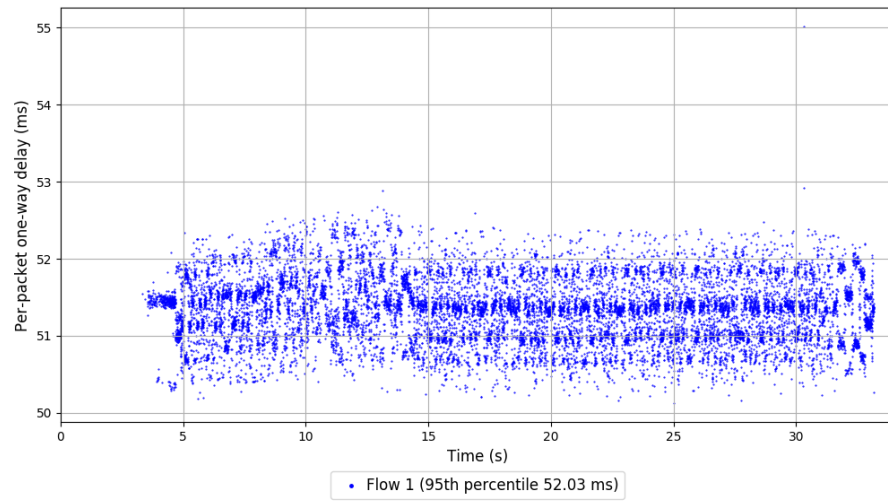
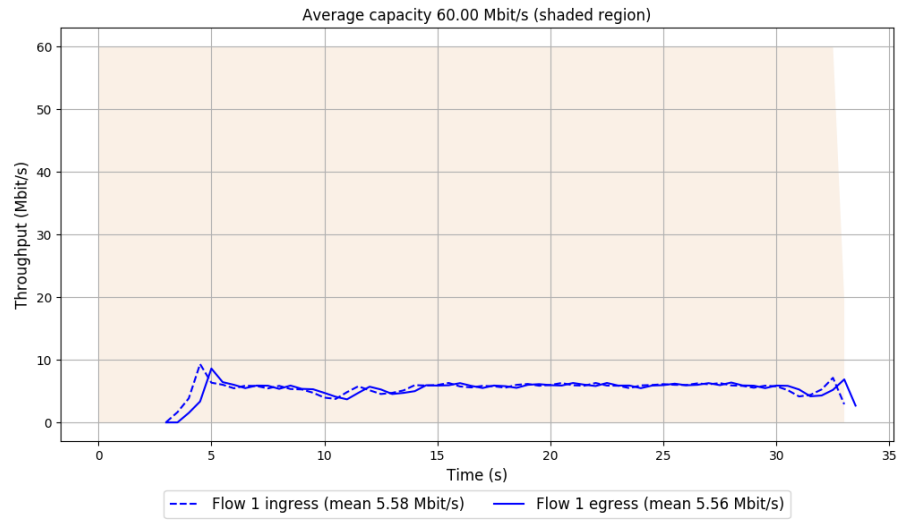
-- Flow 1:

Average throughput: 5.56 Mbit/s

95th percentile per-packet one-way delay: 52.033 ms

Loss rate: 0.54%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2020-04-16 05:51:09

End at: 2020-04-16 05:51:39

Below is generated by plot.py at 2020-04-16 06:04:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 6.27 Mbit/s (10.4% utilization)

95th percentile per-packet one-way delay: 51.983 ms

Loss rate: 0.19%

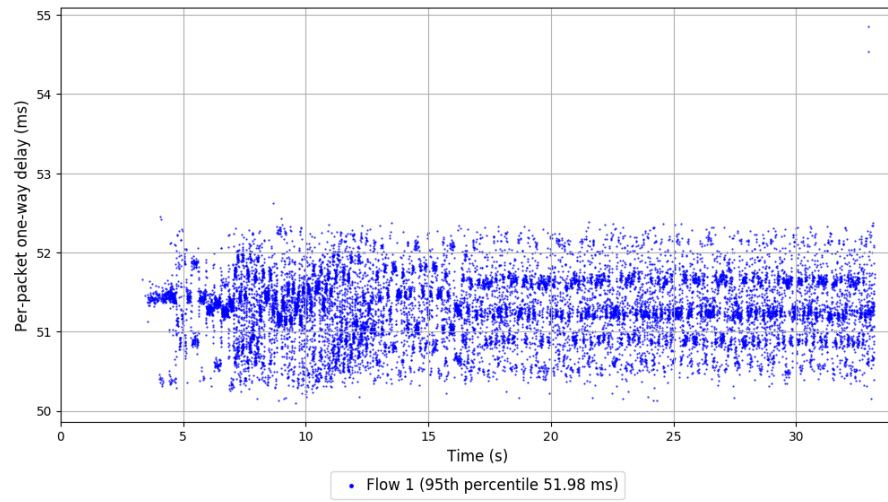
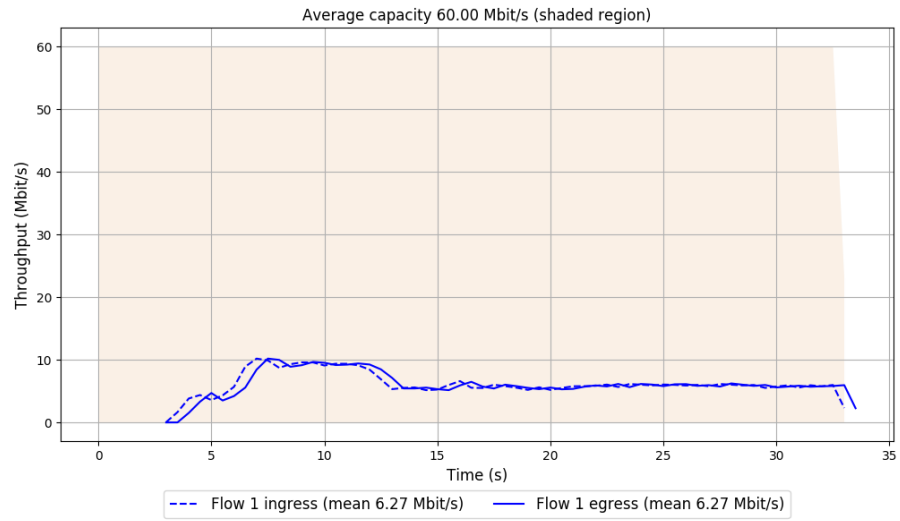
-- Flow 1:

Average throughput: 6.27 Mbit/s

95th percentile per-packet one-way delay: 51.983 ms

Loss rate: 0.19%

Run 3: Report of PCC-Vivace — Data Link

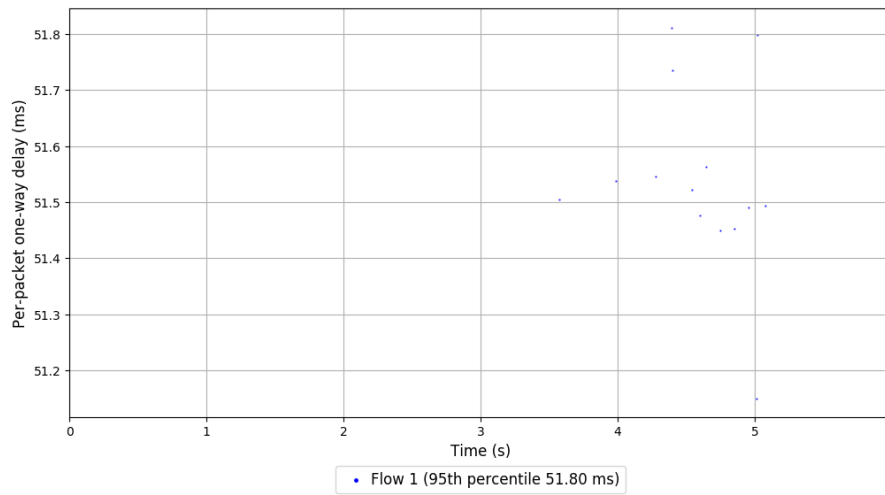
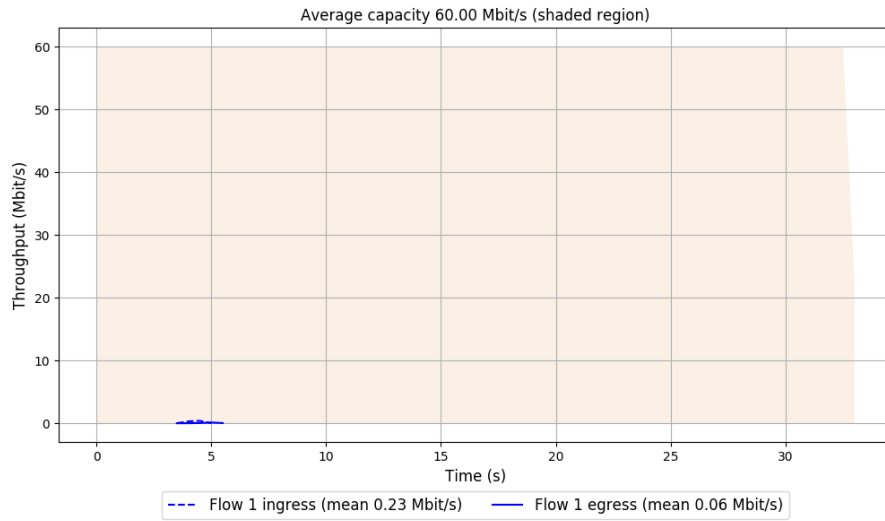


Run 1: Statistics of WebRTC media

Start at: 2020-04-16 05:25:23

End at: 2020-04-16 05:25:53

Run 1: Report of WebRTC media — Data Link

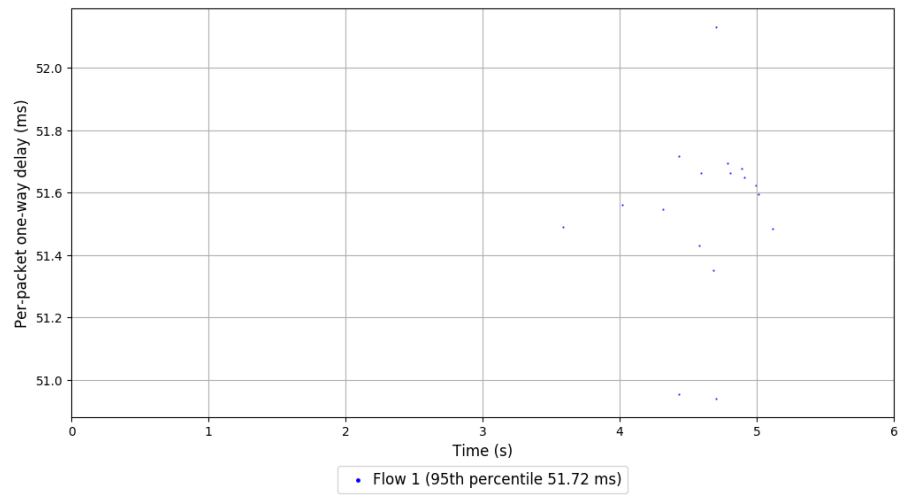
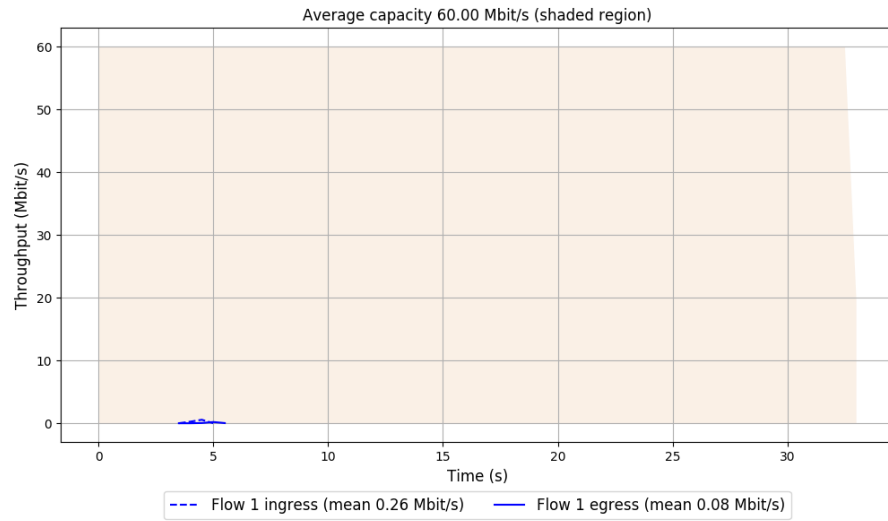


Run 2: Statistics of WebRTC media

Start at: 2020-04-16 05:39:50

End at: 2020-04-16 05:40:20

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2020-04-16 05:54:08

End at: 2020-04-16 05:54:38

Run 3: Report of WebRTC media — Data Link

