

Pantheon Report

Generated at 2020-04-16 07:39:30 (UTC).

Tested in mahimahi: mm-delay 28 mm-loss uplink 0.0477 mm-link 0.57mbps-poisson.trace
0.57mbps-poisson.trace --uplink-queue=droptail --uplink-queue-args=packets=14

Repeated the test of 24 congestion control schemes 3 times.

Each test lasted for 30 seconds running 1 flow.

System info:

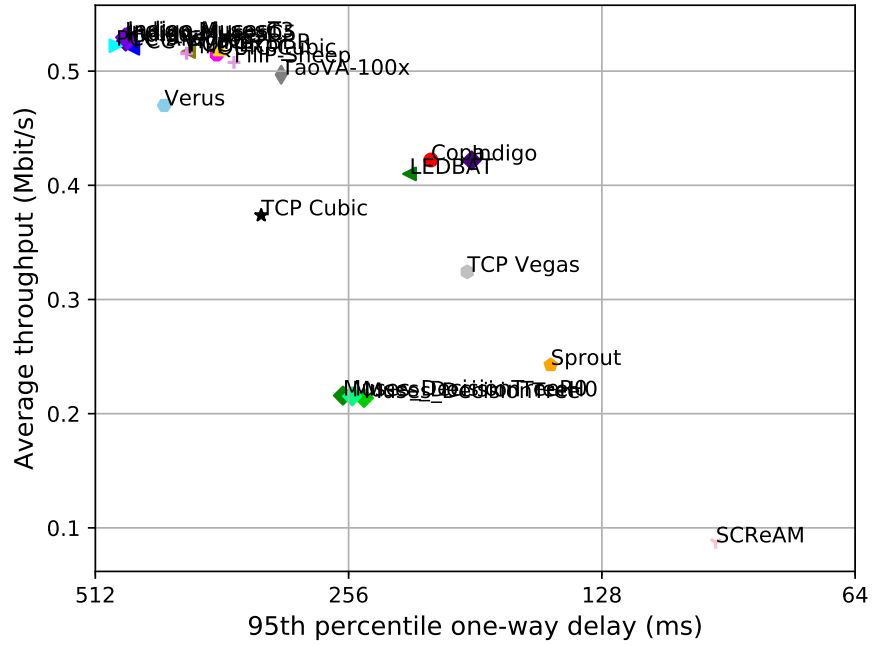
```
Linux 5.0.0-1031-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

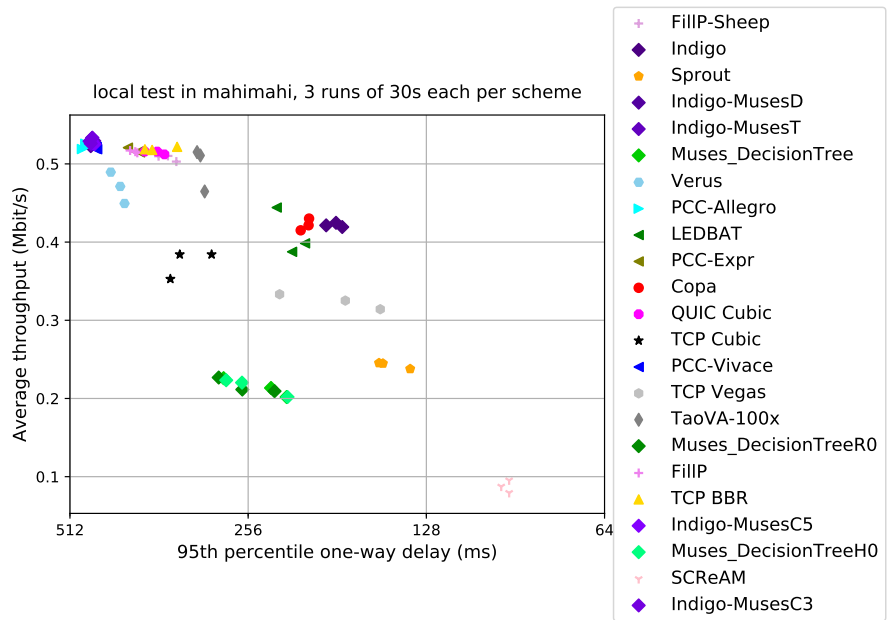
Git summary:

```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd9c077e64d
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

local test in mahimahi, 3 runs of 30s each per scheme
(mean of all runs by scheme)





5

scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	3	0.52	363.95	7.27
Copa	3	0.42	204.35	6.38
TCP Cubic	3	0.37	325.19	7.12
FillP	3	0.52	398.76	53.27
FillP-Sheep	3	0.51	350.31	23.33
Indigo	3	0.42	182.81	7.80
Indigo-MusesC3	3	0.53	471.93	47.35
Indigo-MusesC5	3	0.53	468.64	56.04
Indigo-MusesD	3	0.53	471.19	47.81
Indigo-MusesT	3	0.53	468.86	47.32
LEDBAT	3	0.41	216.69	4.81
Muses_DecisionTree	3	0.21	245.43	5.46
Muses_DecisionTreeH0	3	0.21	253.53	5.81
Muses_DecisionTreeR0	3	0.22	259.99	4.64
PCC-Allegro	3	0.52	483.86	85.77
PCC-Expr	3	0.52	396.66	92.00
QUIC Cubic	3	0.52	367.27	10.45
SCReAM	3	0.09	93.73	5.08
Sprout	3	0.24	147.25	5.37
TaoVA-100x	3	0.50	307.89	64.93
TCP Vegas	3	0.32	185.03	6.44
Verus	3	0.47	423.97	22.84
PCC-Vivace	3	0.52	462.08	60.96
WebRTC media	0	N/A	N/A	N/A

Run 1: Statistics of TCP BBR

Start at: 2020-04-16 07:00:04

End at: 2020-04-16 07:00:34

Below is generated by plot.py at 2020-04-16 07:38:26

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.0% utilization)

95th percentile per-packet one-way delay: 371.895 ms

Loss rate: 7.72%

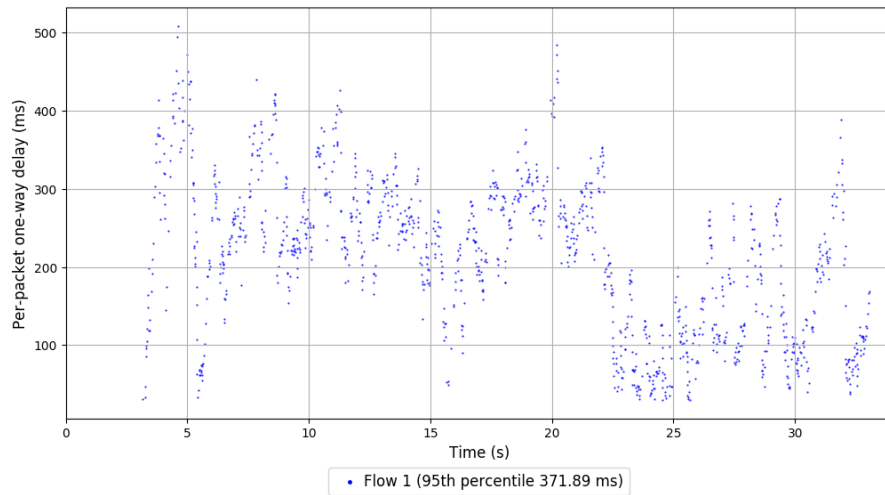
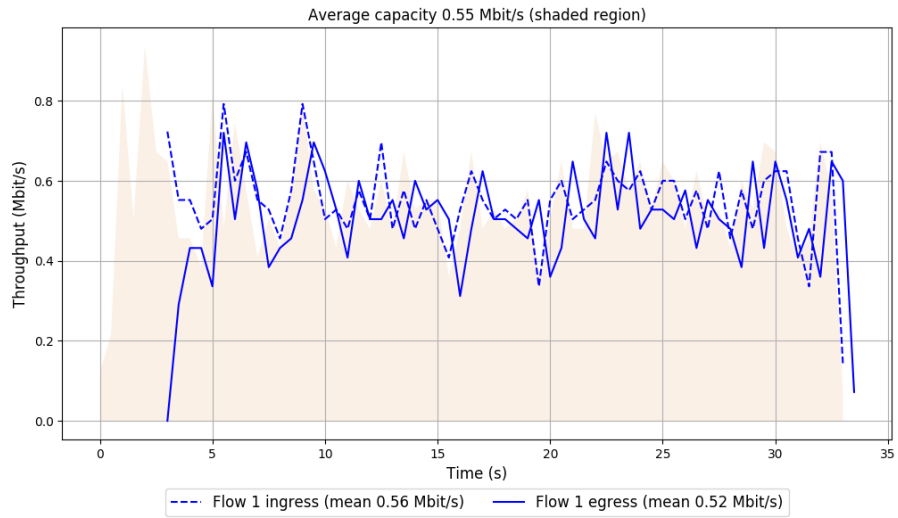
-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 371.895 ms

Loss rate: 7.72%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2020-04-16 07:13:58

End at: 2020-04-16 07:14:28

Below is generated by plot.py at 2020-04-16 07:38:26

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.2% utilization)

95th percentile per-packet one-way delay: 382.515 ms

Loss rate: 9.05%

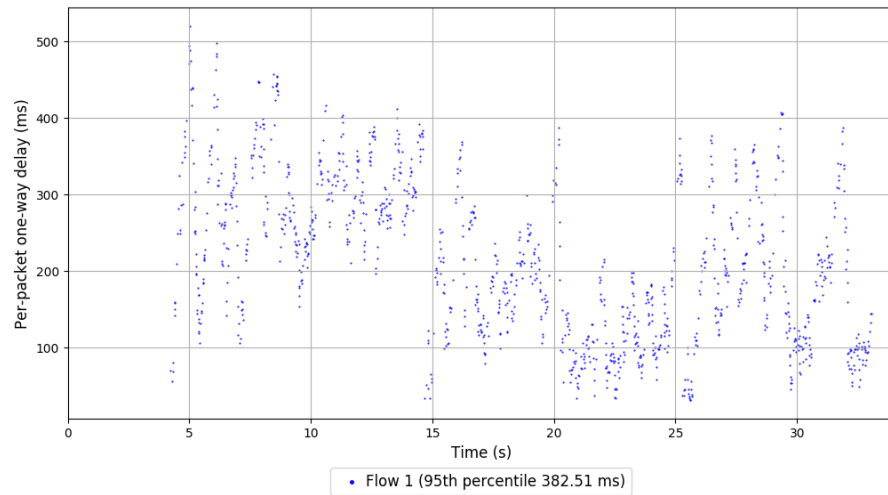
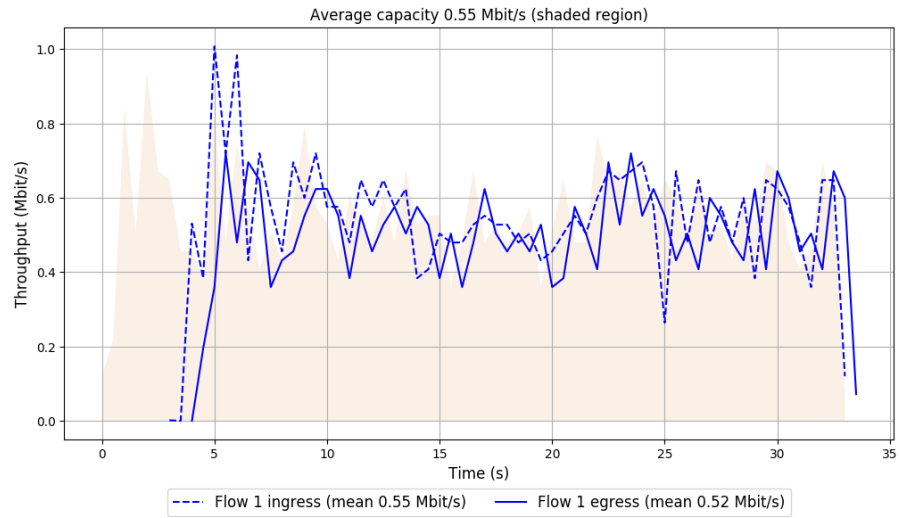
-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 382.515 ms

Loss rate: 9.05%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2020-04-16 07:27:53

End at: 2020-04-16 07:28:23

Below is generated by plot.py at 2020-04-16 07:38:26

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.7% utilization)

95th percentile per-packet one-way delay: 337.452 ms

Loss rate: 5.04%

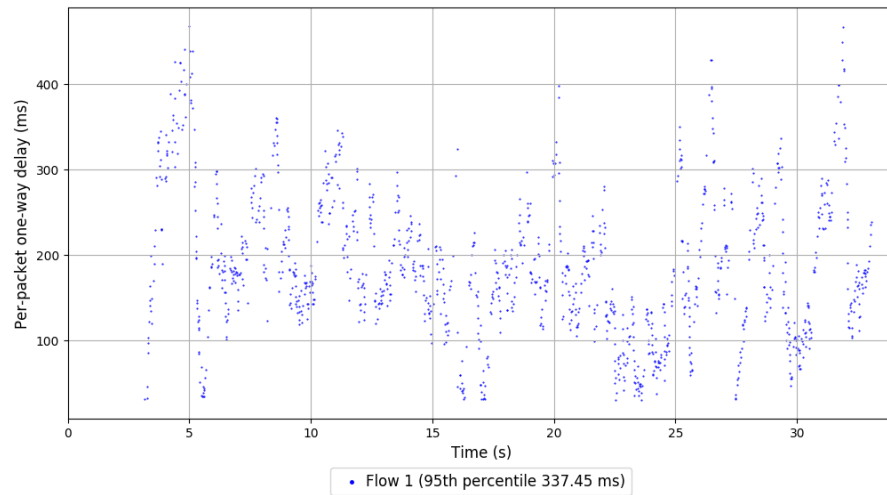
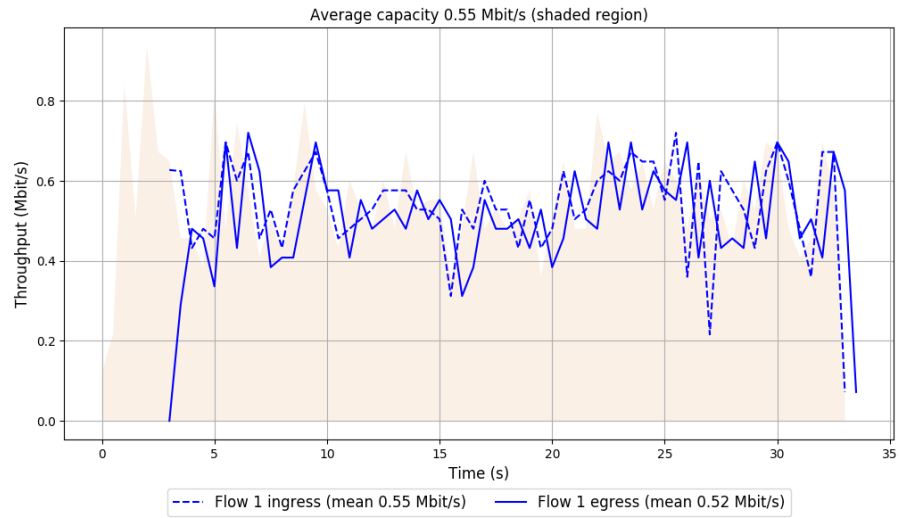
-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 337.452 ms

Loss rate: 5.04%

Run 3: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2020-04-16 07:08:45

End at: 2020-04-16 07:09:15

Below is generated by plot.py at 2020-04-16 07:38:26

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.42 Mbit/s (75.4% utilization)

95th percentile per-packet one-way delay: 208.683 ms

Loss rate: 6.15%

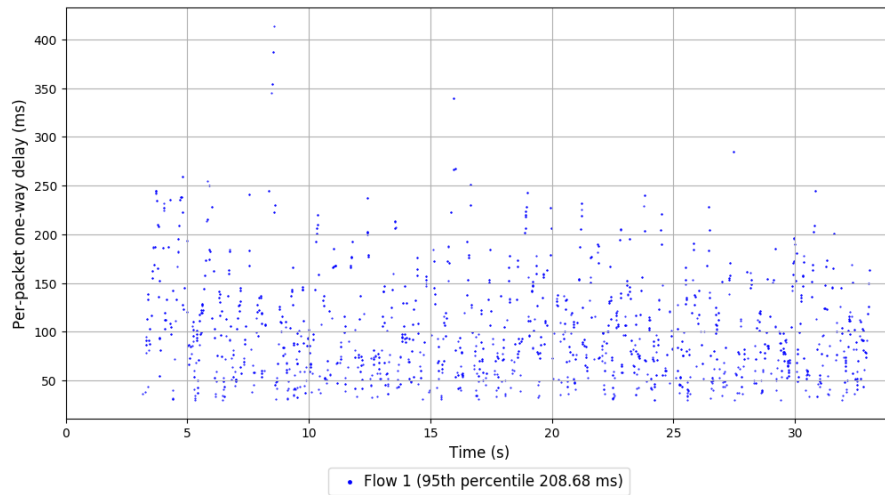
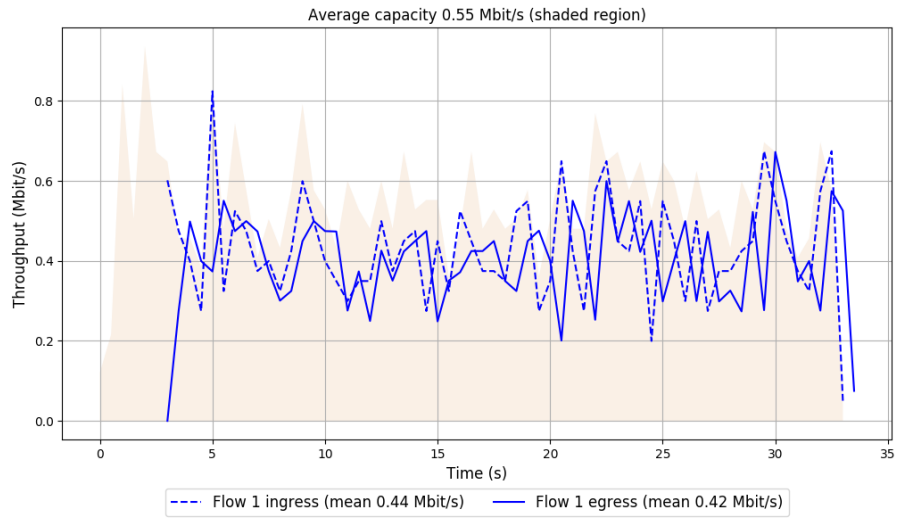
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 208.683 ms

Loss rate: 6.15%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2020-04-16 07:22:39

End at: 2020-04-16 07:23:09

Below is generated by plot.py at 2020-04-16 07:38:27

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.43 Mbit/s (78.1% utilization)

95th percentile per-packet one-way delay: 201.992 ms

Loss rate: 6.88%

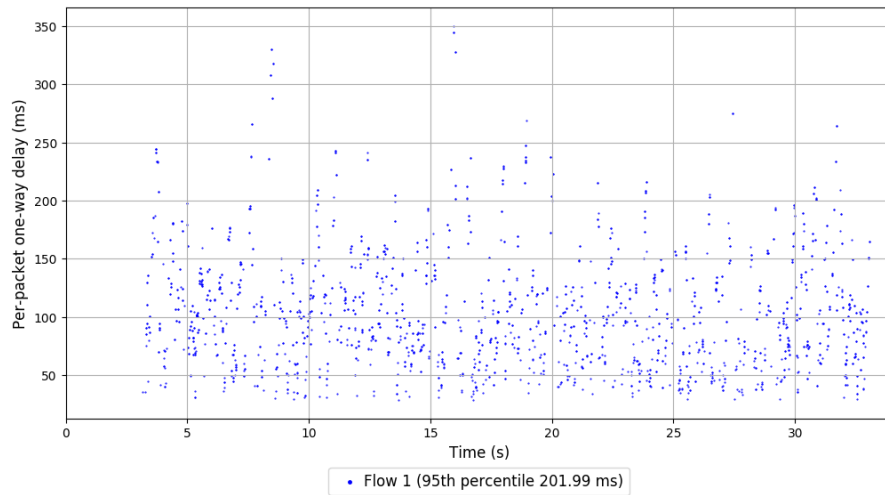
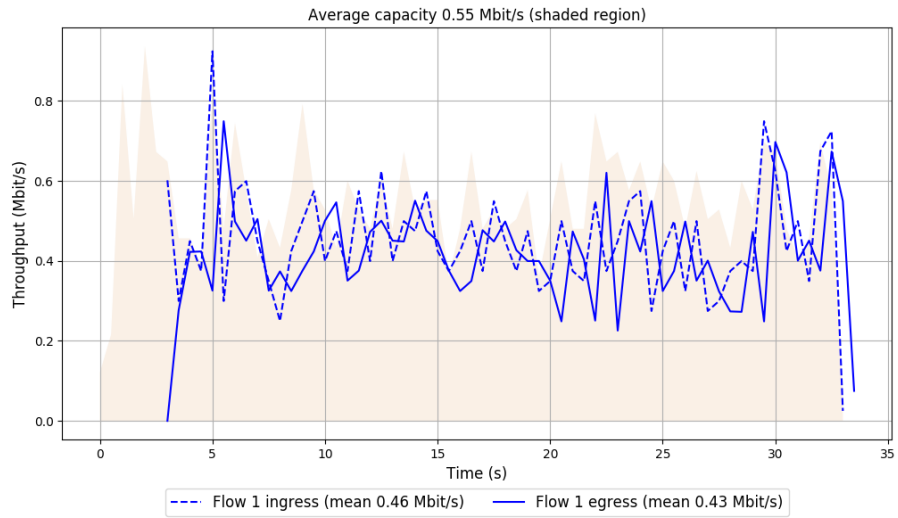
-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 201.992 ms

Loss rate: 6.88%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2020-04-16 07:36:35

End at: 2020-04-16 07:37:05

Below is generated by plot.py at 2020-04-16 07:38:27

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.42 Mbit/s (76.5% utilization)

95th percentile per-packet one-way delay: 202.379 ms

Loss rate: 6.11%

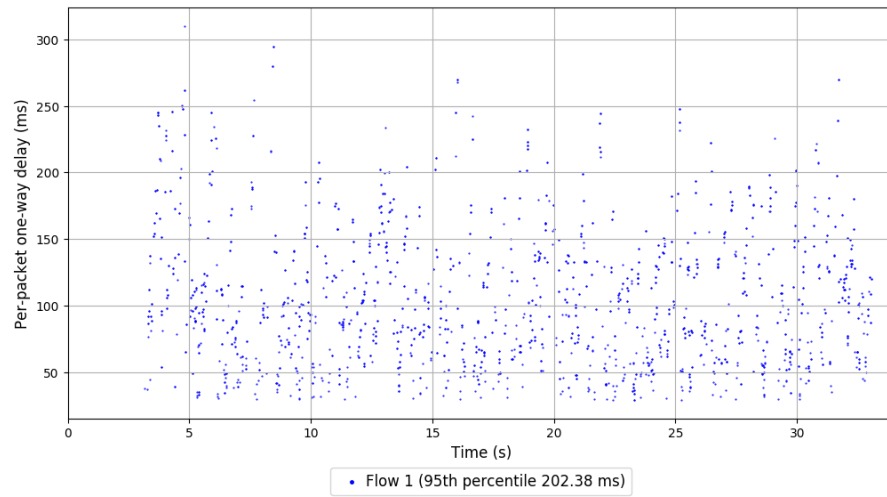
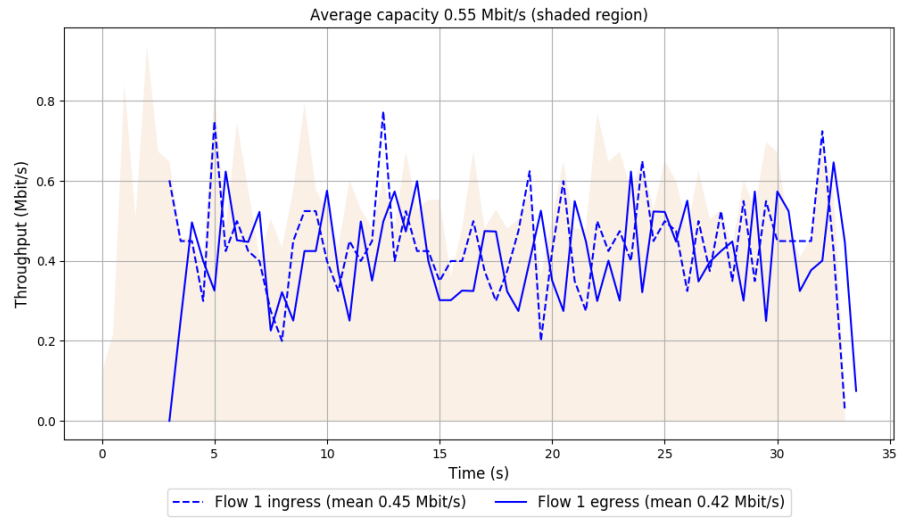
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 202.379 ms

Loss rate: 6.11%

Run 3: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2020-04-16 07:02:23

End at: 2020-04-16 07:02:53

Below is generated by plot.py at 2020-04-16 07:38:27

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.35 Mbit/s (64.0% utilization)

95th percentile per-packet one-way delay: 346.439 ms

Loss rate: 7.47%

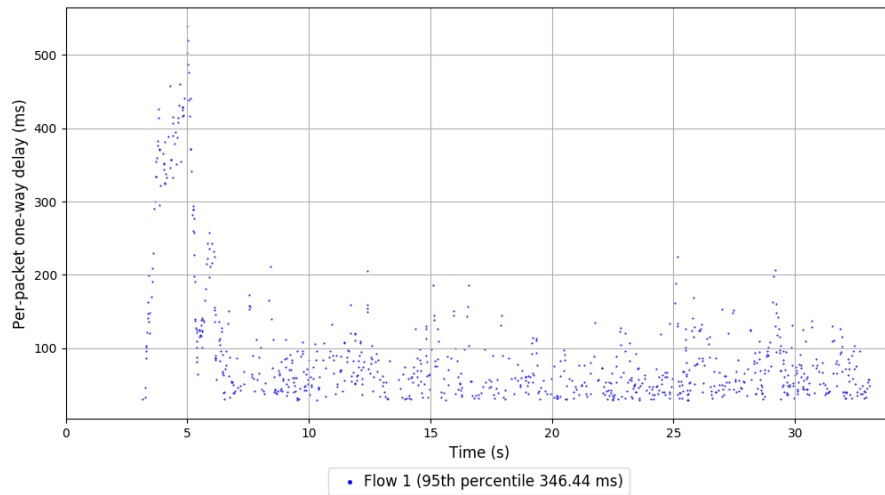
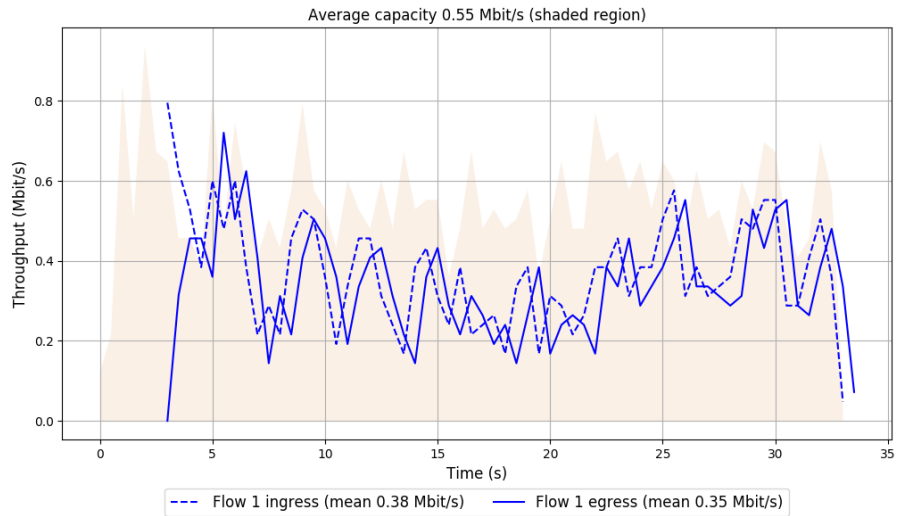
-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 346.439 ms

Loss rate: 7.47%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2020-04-16 07:16:17

End at: 2020-04-16 07:16:47

Below is generated by plot.py at 2020-04-16 07:38:27

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.38 Mbit/s (69.7% utilization)

95th percentile per-packet one-way delay: 295.116 ms

Loss rate: 7.27%

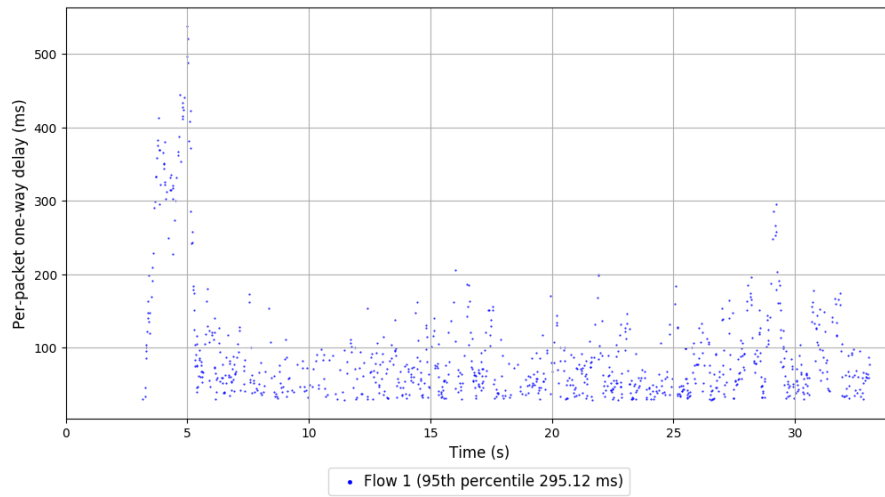
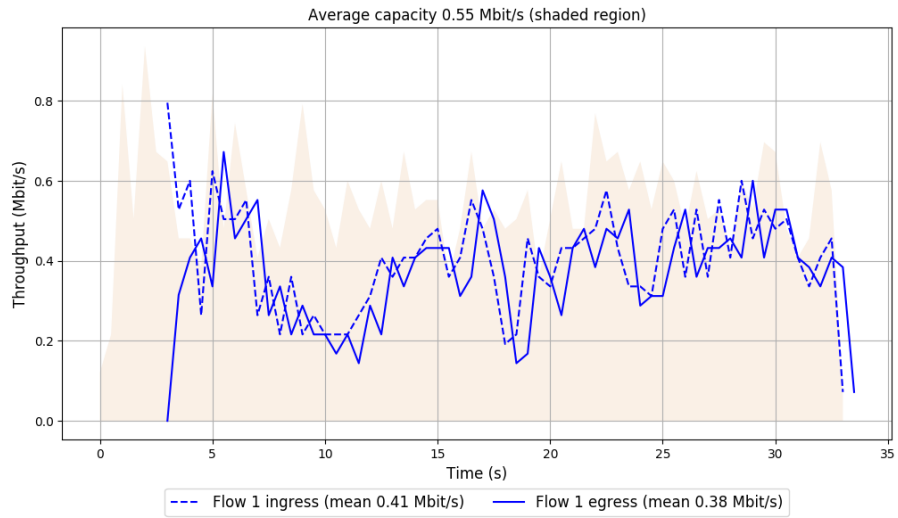
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 295.116 ms

Loss rate: 7.27%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2020-04-16 07:30:12

End at: 2020-04-16 07:30:42

Below is generated by plot.py at 2020-04-16 07:38:30

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.38 Mbit/s (69.7% utilization)

95th percentile per-packet one-way delay: 334.018 ms

Loss rate: 6.63%

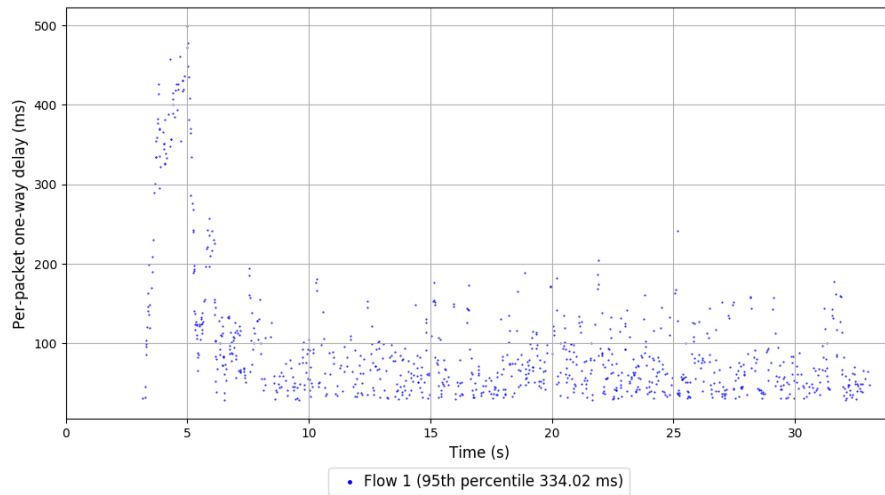
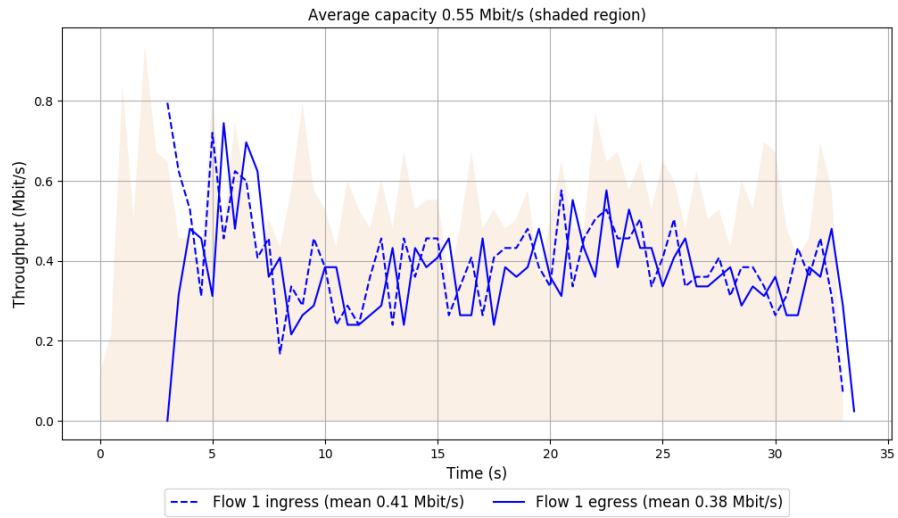
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 334.018 ms

Loss rate: 6.63%

Run 3: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2020-04-16 06:58:54

End at: 2020-04-16 06:59:24

Below is generated by plot.py at 2020-04-16 07:38:32

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.51 Mbit/s (93.3% utilization)

95th percentile per-packet one-way delay: 393.999 ms

Loss rate: 53.80%

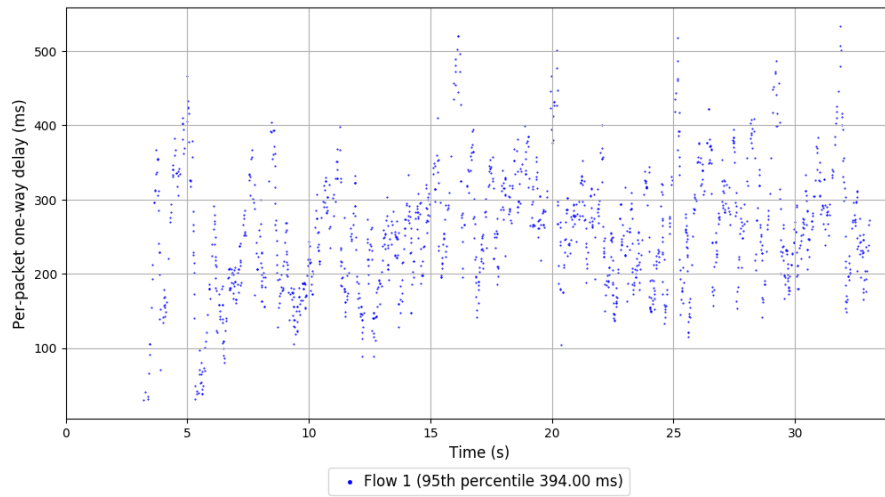
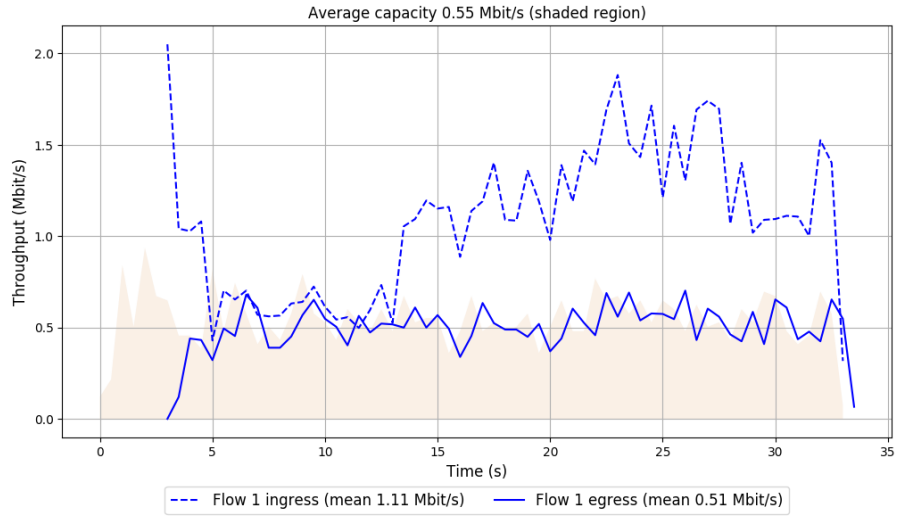
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 393.999 ms

Loss rate: 53.80%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2020-04-16 07:12:48

End at: 2020-04-16 07:13:18

Below is generated by plot.py at 2020-04-16 07:38:33

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (93.9% utilization)

95th percentile per-packet one-way delay: 405.181 ms

Loss rate: 53.12%

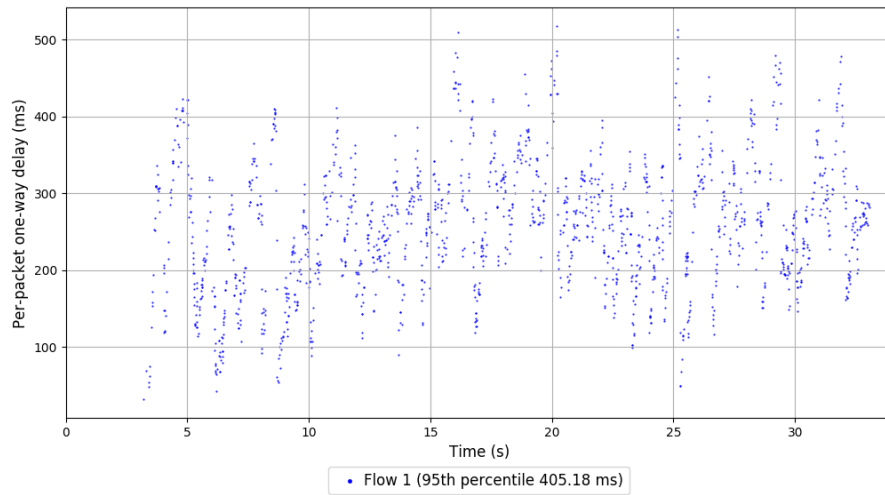
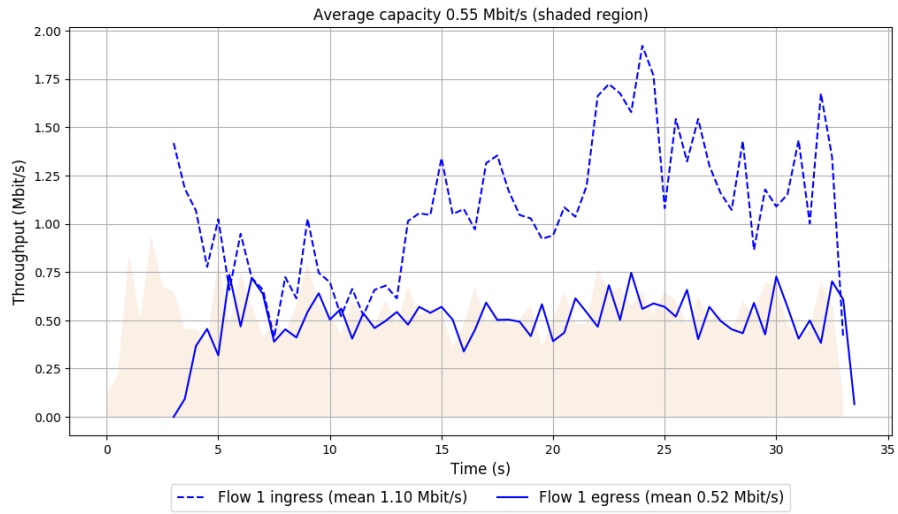
-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 405.181 ms

Loss rate: 53.12%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2020-04-16 07:26:42

End at: 2020-04-16 07:27:12

Below is generated by plot.py at 2020-04-16 07:38:35

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (93.6% utilization)

95th percentile per-packet one-way delay: 397.097 ms

Loss rate: 52.88%

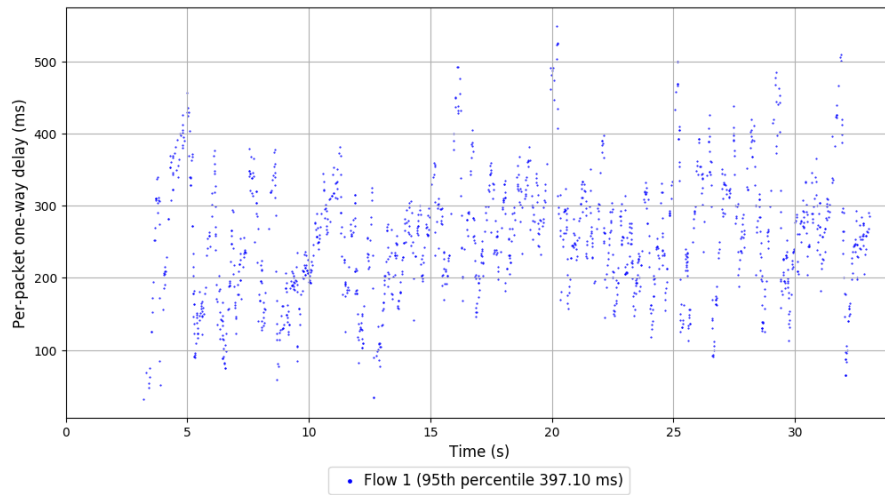
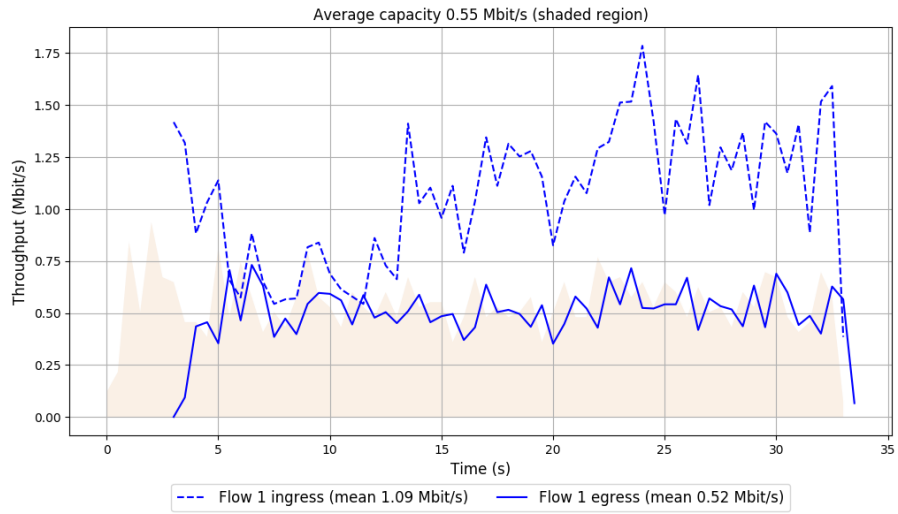
-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 397.097 ms

Loss rate: 52.88%

Run 3: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2020-04-16 07:07:01

End at: 2020-04-16 07:07:31

Below is generated by plot.py at 2020-04-16 07:38:35

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.51 Mbit/s (92.5% utilization)

95th percentile per-packet one-way delay: 362.719 ms

Loss rate: 24.31%

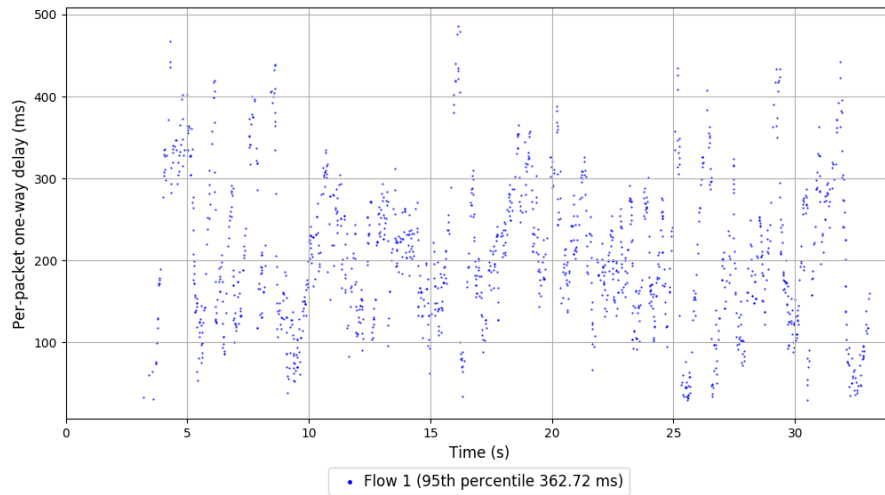
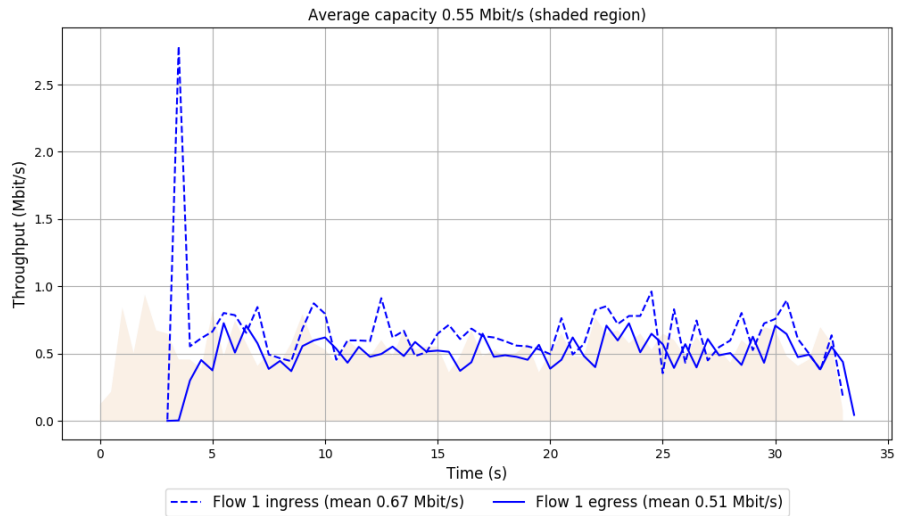
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 362.719 ms

Loss rate: 24.31%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2020-04-16 07:20:55

End at: 2020-04-16 07:21:25

Below is generated by plot.py at 2020-04-16 07:38:35

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.50 Mbit/s (91.3% utilization)

95th percentile per-packet one-way delay: 338.470 ms

Loss rate: 23.58%

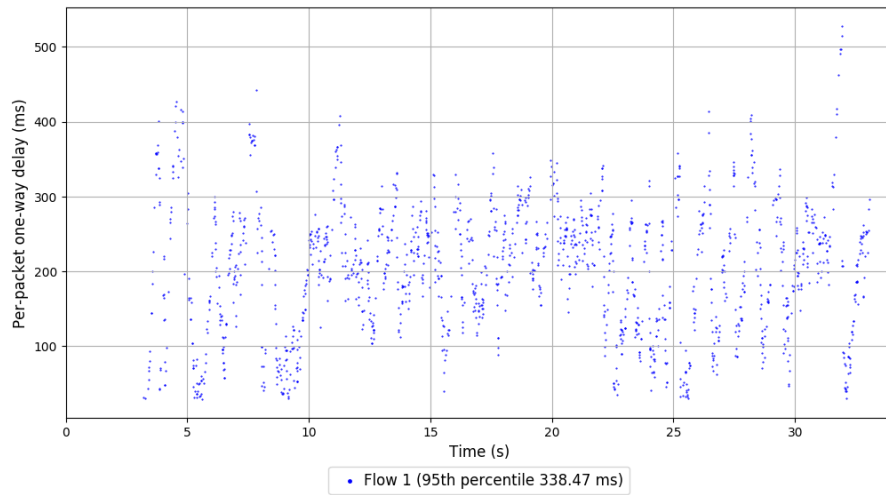
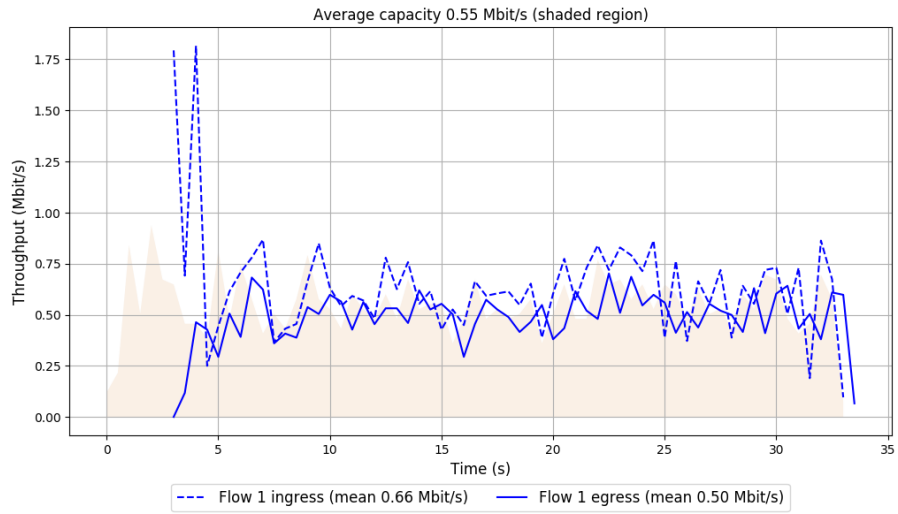
-- Flow 1:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 338.470 ms

Loss rate: 23.58%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2020-04-16 07:34:51

End at: 2020-04-16 07:35:21

Below is generated by plot.py at 2020-04-16 07:38:35

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.51 Mbit/s (92.6% utilization)

95th percentile per-packet one-way delay: 349.746 ms

Loss rate: 22.10%

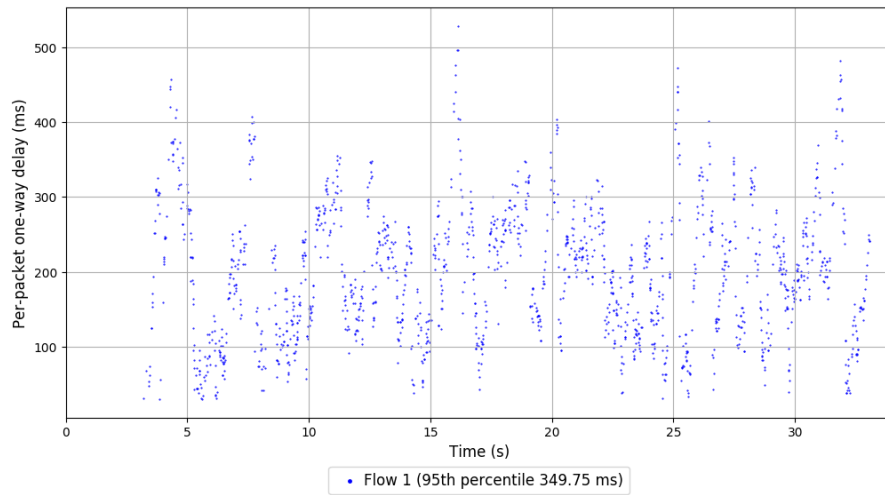
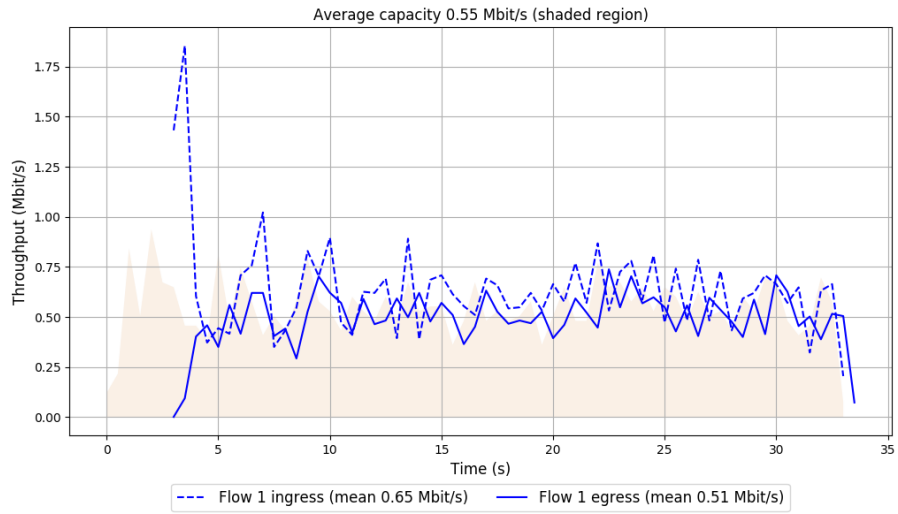
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 349.746 ms

Loss rate: 22.10%

Run 3: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2020-04-16 06:58:19

End at: 2020-04-16 06:58:49

Below is generated by plot.py at 2020-04-16 07:38:35

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.42 Mbit/s (76.1% utilization)

95th percentile per-packet one-way delay: 177.544 ms

Loss rate: 7.40%

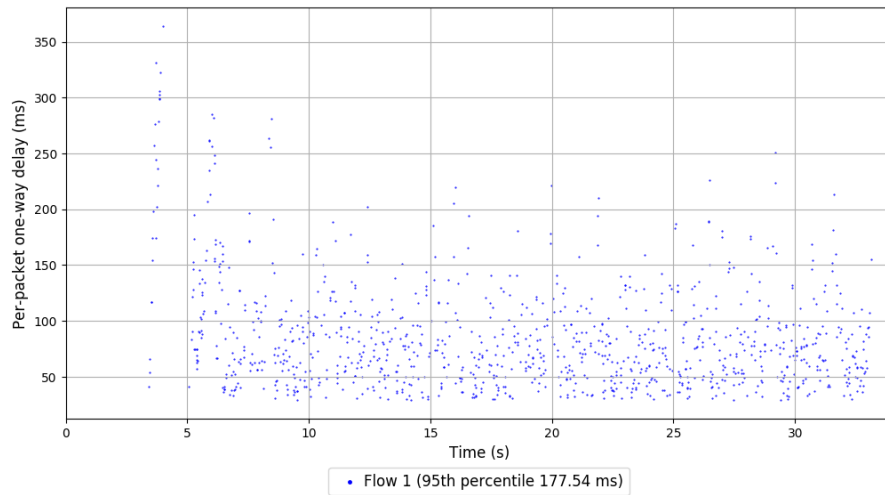
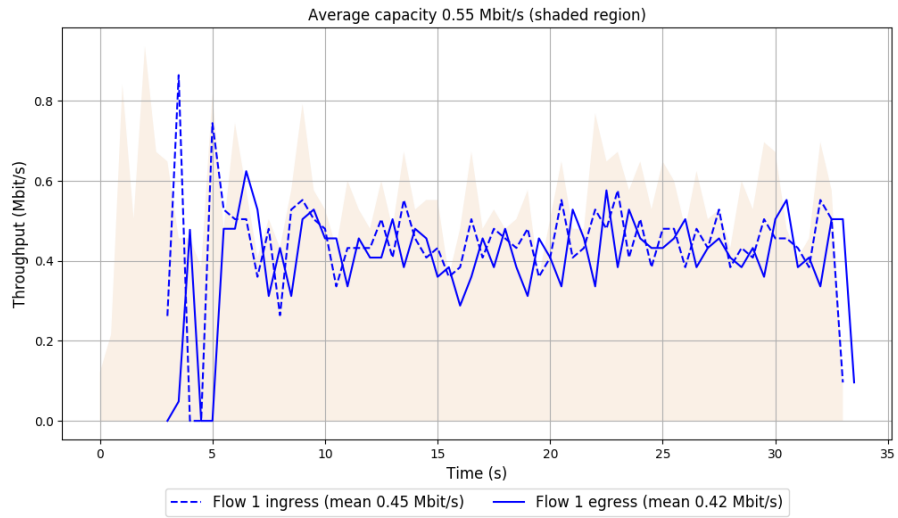
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 177.544 ms

Loss rate: 7.40%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2020-04-16 07:12:13

End at: 2020-04-16 07:12:43

Below is generated by plot.py at 2020-04-16 07:38:36

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.42 Mbit/s (76.5% utilization)

95th percentile per-packet one-way delay: 188.972 ms

Loss rate: 8.60%

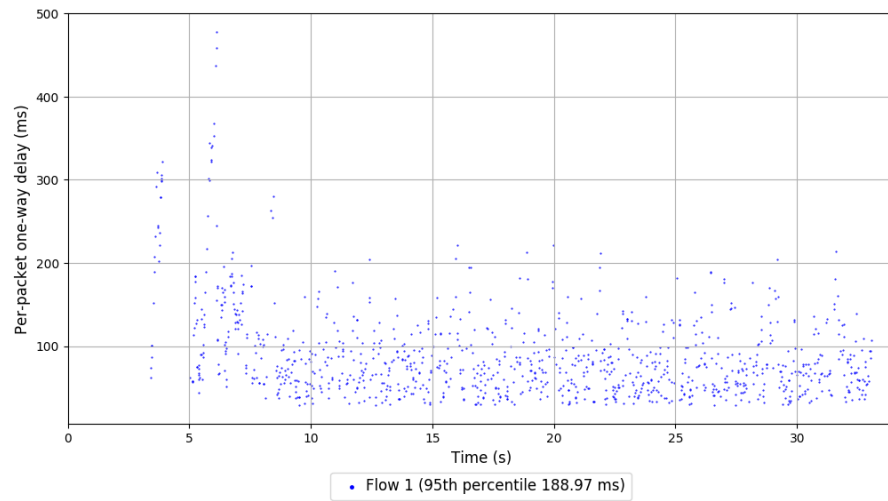
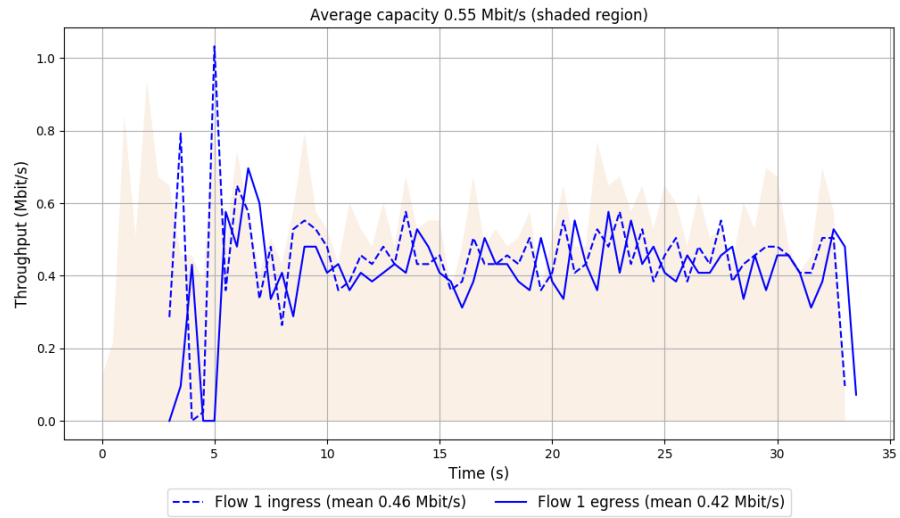
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 188.972 ms

Loss rate: 8.60%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2020-04-16 07:26:07

End at: 2020-04-16 07:26:37

Below is generated by plot.py at 2020-04-16 07:38:39

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.42 Mbit/s (77.1% utilization)

95th percentile per-packet one-way delay: 181.902 ms

Loss rate: 7.41%

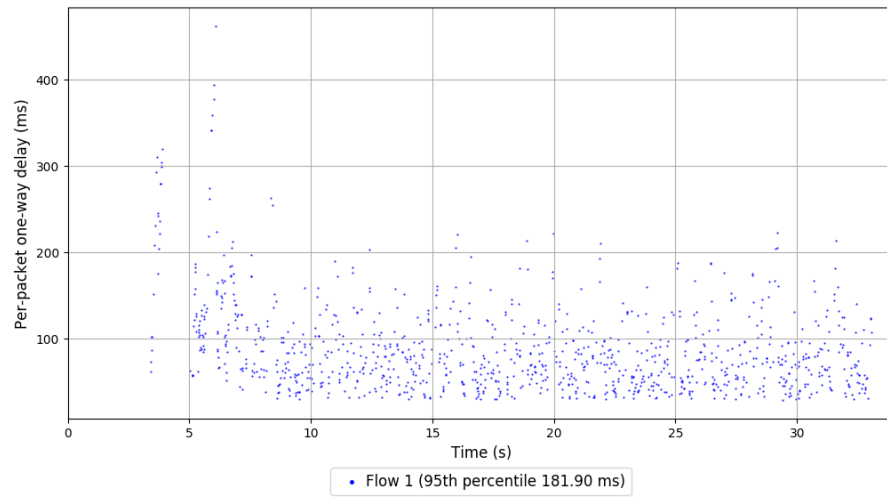
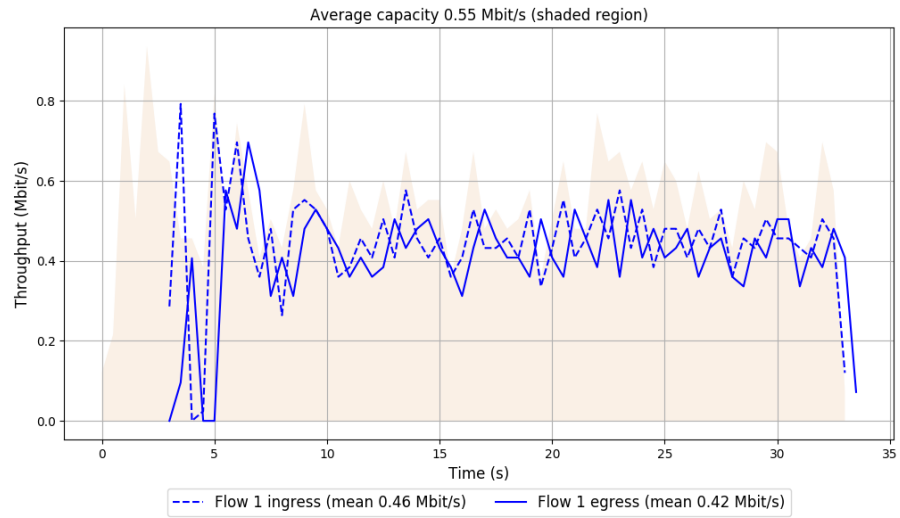
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 181.902 ms

Loss rate: 7.41%

Run 3: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2020-04-16 07:01:13

End at: 2020-04-16 07:01:43

Below is generated by plot.py at 2020-04-16 07:38:41

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.53 Mbit/s (96.0% utilization)

95th percentile per-packet one-way delay: 474.396 ms

Loss rate: 47.44%

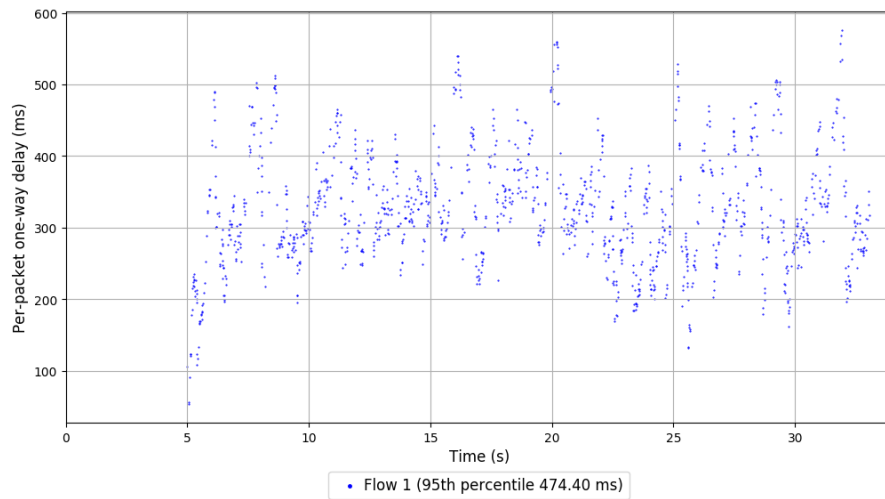
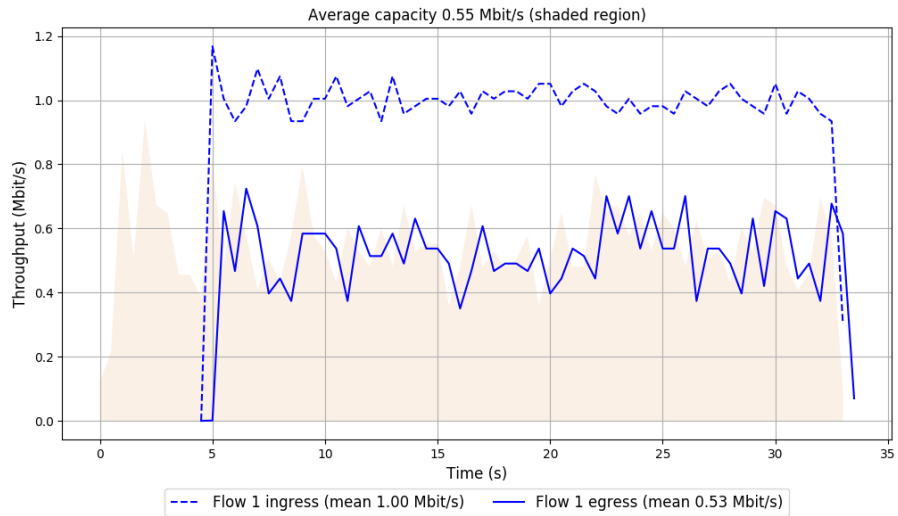
-- Flow 1:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 474.396 ms

Loss rate: 47.44%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2020-04-16 07:15:07

End at: 2020-04-16 07:15:37

Below is generated by plot.py at 2020-04-16 07:38:41

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.53 Mbit/s (96.8% utilization)

95th percentile per-packet one-way delay: 469.196 ms

Loss rate: 46.76%

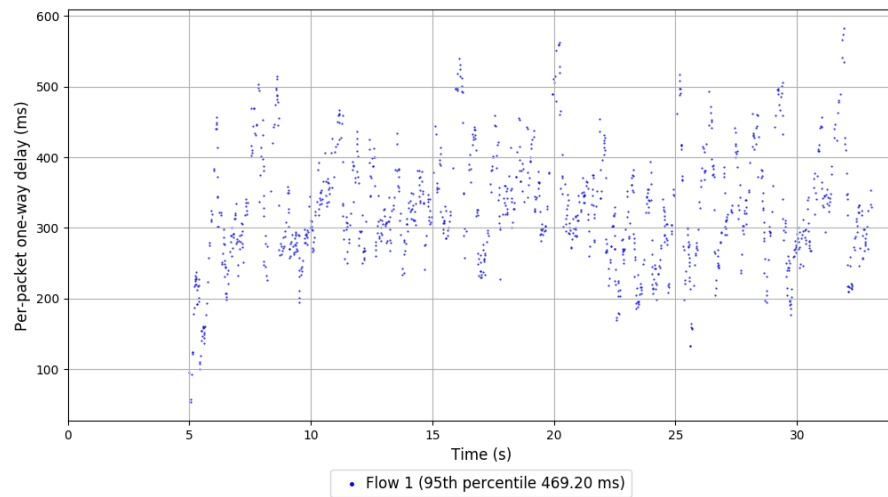
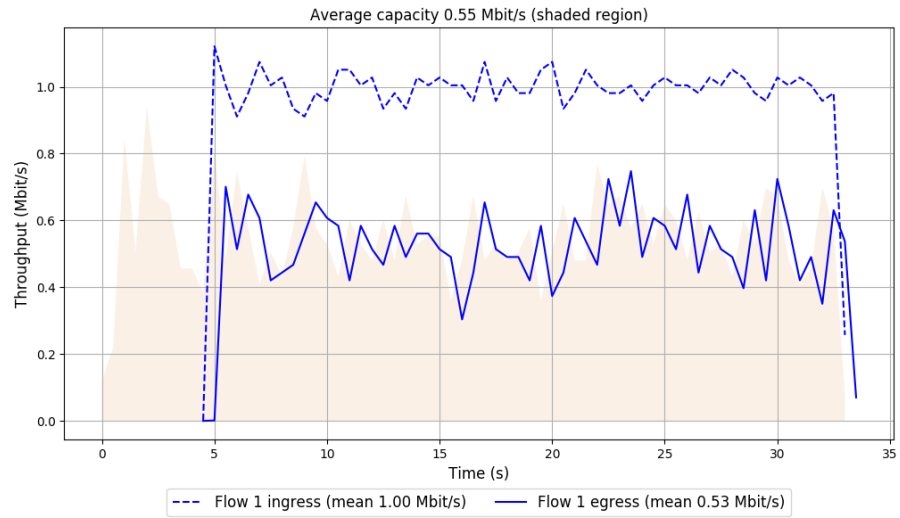
-- Flow 1:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 469.196 ms

Loss rate: 46.76%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2020-04-16 07:29:02

End at: 2020-04-16 07:29:32

Below is generated by plot.py at 2020-04-16 07:38:41

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.53 Mbit/s (95.5% utilization)

95th percentile per-packet one-way delay: 472.210 ms

Loss rate: 47.86%

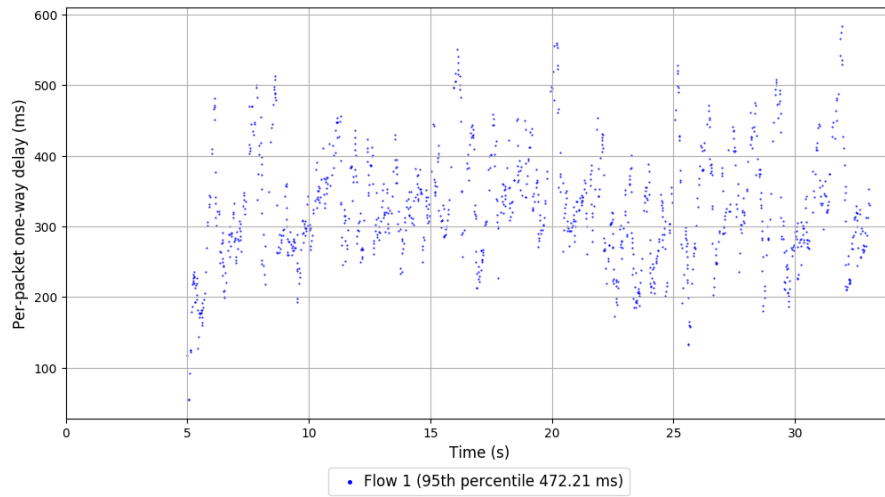
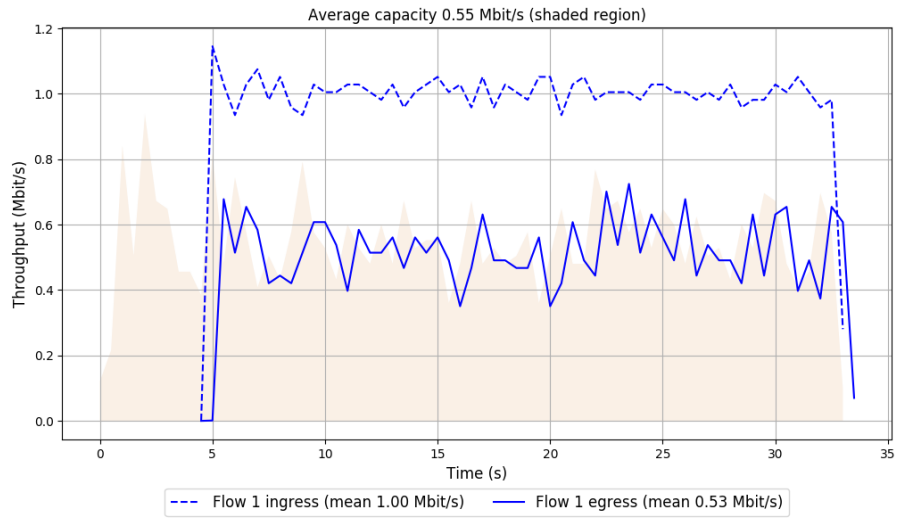
-- Flow 1:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 472.210 ms

Loss rate: 47.86%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2020-04-16 06:57:45

End at: 2020-04-16 06:58:15

Below is generated by plot.py at 2020-04-16 07:38:42

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.53 Mbit/s (95.3% utilization)

95th percentile per-packet one-way delay: 465.303 ms

Loss rate: 49.62%

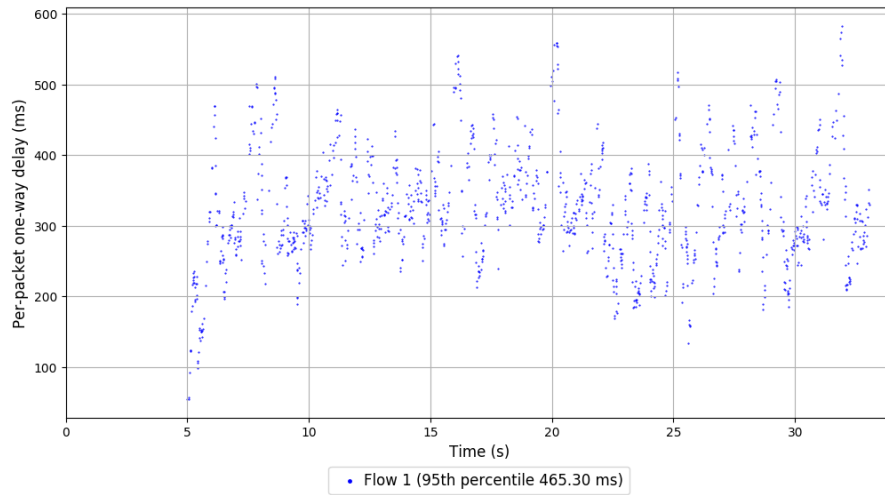
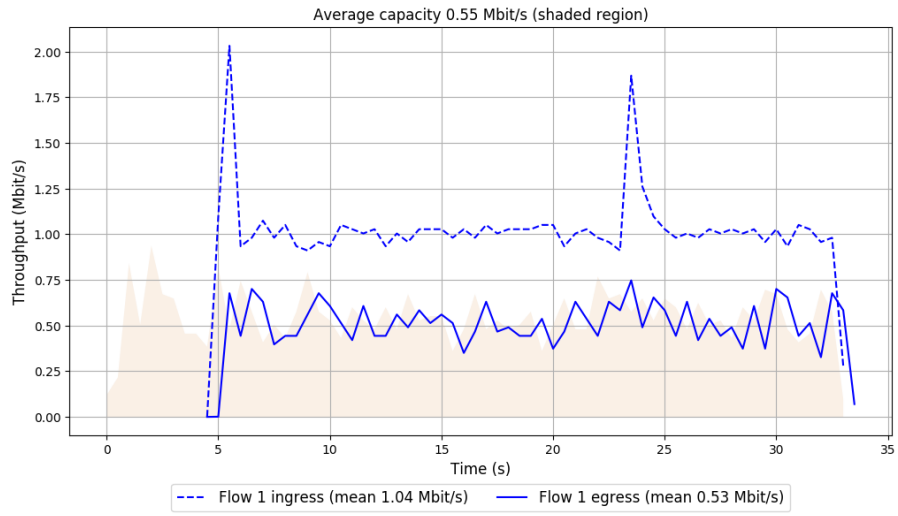
-- Flow 1:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 465.303 ms

Loss rate: 49.62%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2020-04-16 07:11:39

End at: 2020-04-16 07:12:09

Below is generated by plot.py at 2020-04-16 07:38:43

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.53 Mbit/s (95.5% utilization)

95th percentile per-packet one-way delay: 470.106 ms

Loss rate: 70.30%

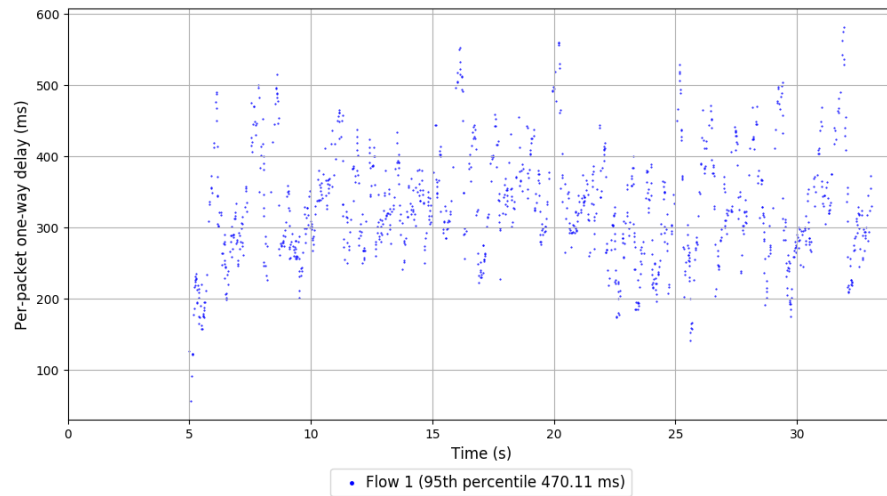
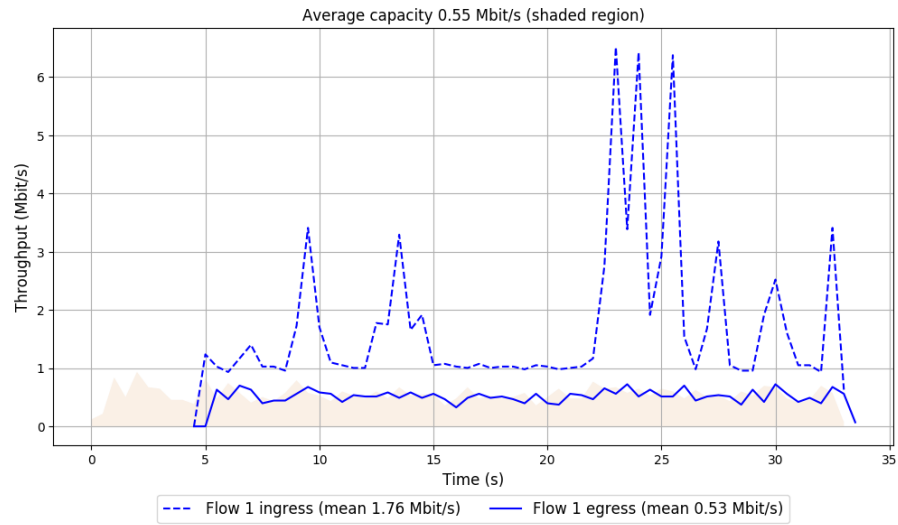
-- Flow 1:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 470.106 ms

Loss rate: 70.30%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2020-04-16 07:25:33

End at: 2020-04-16 07:26:03

Below is generated by plot.py at 2020-04-16 07:38:43

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.53 Mbit/s (96.3% utilization)

95th percentile per-packet one-way delay: 470.517 ms

Loss rate: 48.19%

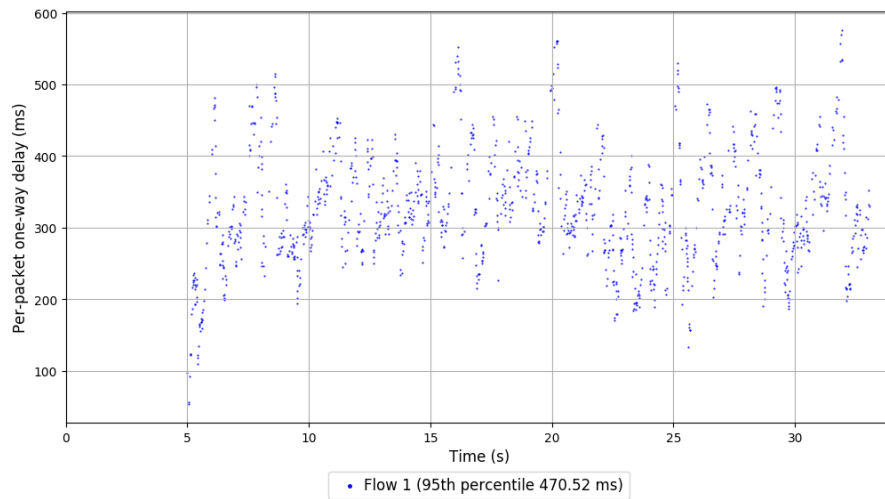
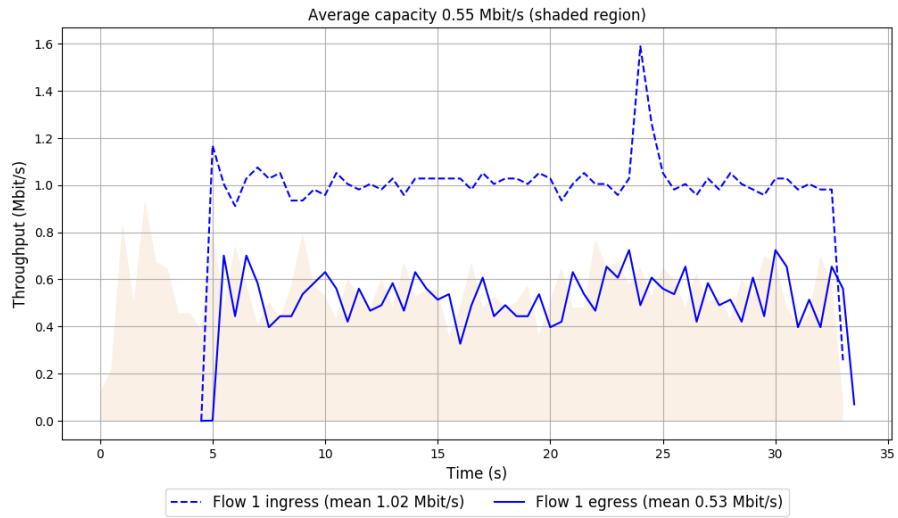
-- Flow 1:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 470.517 ms

Loss rate: 48.19%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2020-04-16 07:01:48

End at: 2020-04-16 07:02:18

Below is generated by plot.py at 2020-04-16 07:38:44

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.53 Mbit/s (95.3% utilization)

95th percentile per-packet one-way delay: 470.228 ms

Loss rate: 47.73%

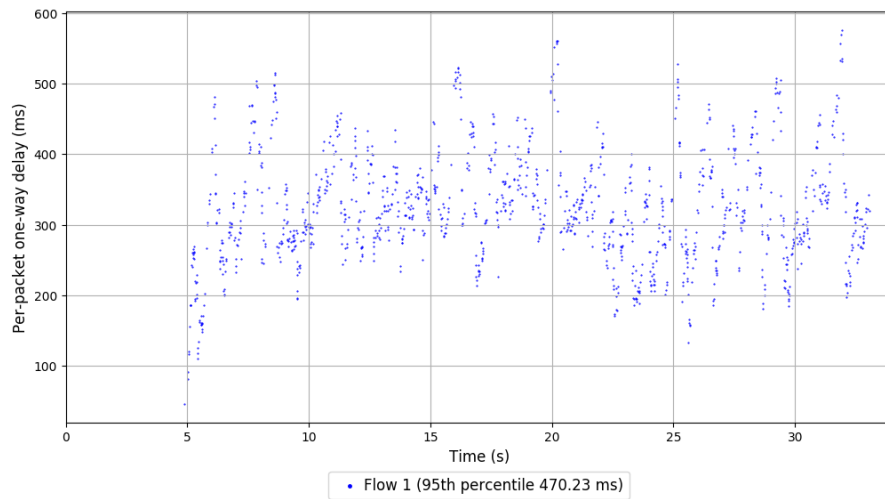
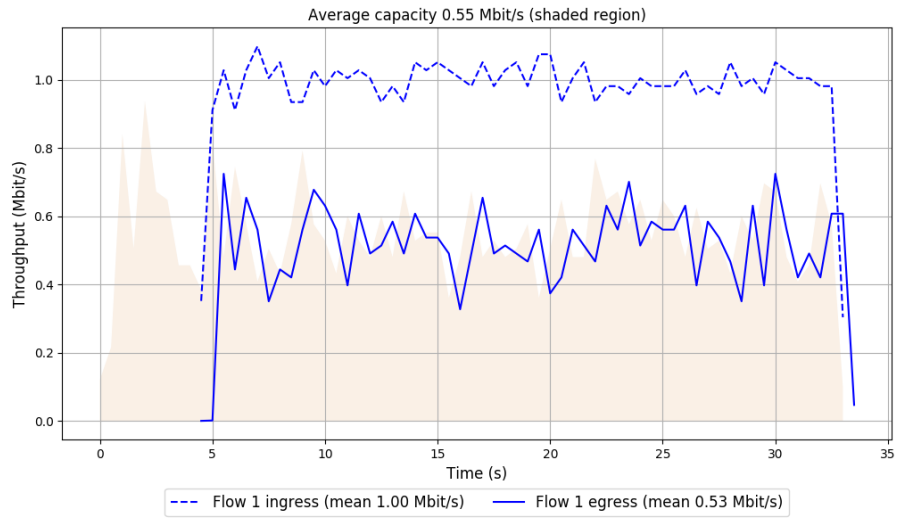
-- Flow 1:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 470.228 ms

Loss rate: 47.73%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2020-04-16 07:15:42

End at: 2020-04-16 07:16:12

Below is generated by plot.py at 2020-04-16 07:38:46

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.9% utilization)

95th percentile per-packet one-way delay: 472.169 ms

Loss rate: 48.25%

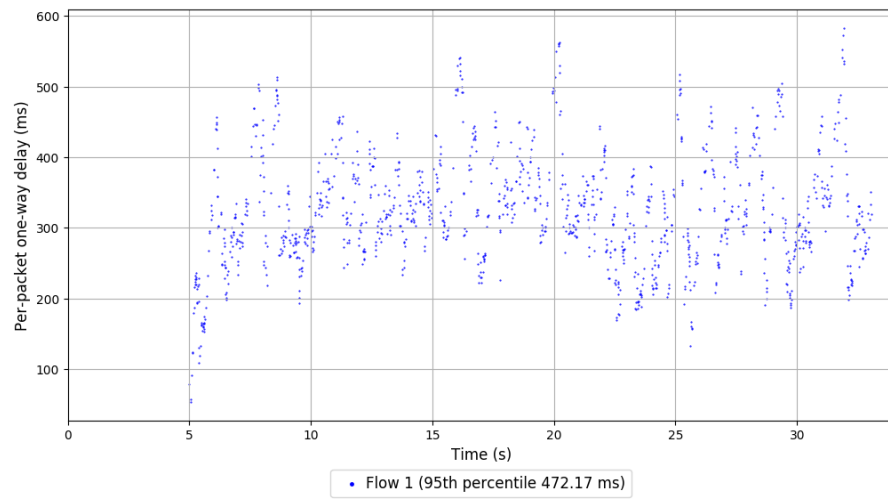
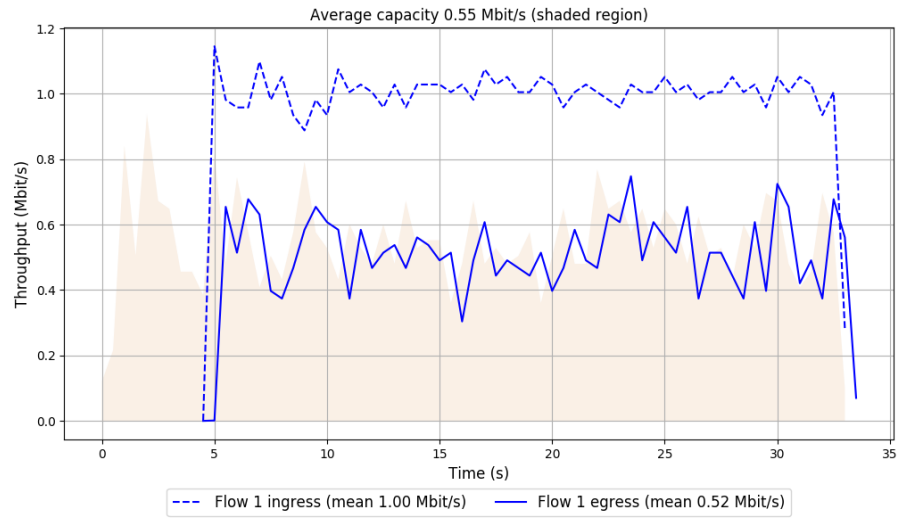
-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 472.169 ms

Loss rate: 48.25%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2020-04-16 07:29:37

End at: 2020-04-16 07:30:07

Below is generated by plot.py at 2020-04-16 07:38:48

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.53 Mbit/s (96.2% utilization)

95th percentile per-packet one-way delay: 471.176 ms

Loss rate: 47.45%

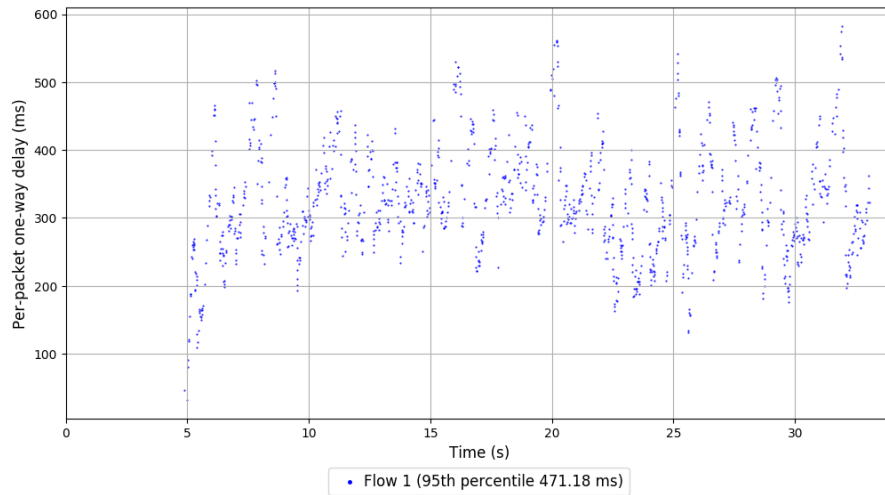
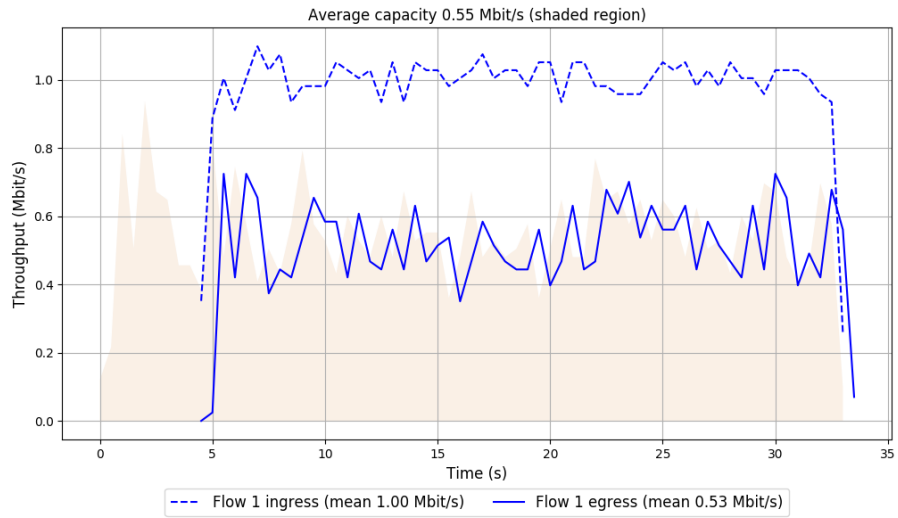
-- Flow 1:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 471.176 ms

Loss rate: 47.45%

Run 3: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MuseST

Start at: 2020-04-16 06:56:35

End at: 2020-04-16 06:57:05

Below is generated by plot.py at 2020-04-16 07:38:49

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.53 Mbit/s (95.8% utilization)

95th percentile per-packet one-way delay: 470.952 ms

Loss rate: 47.76%

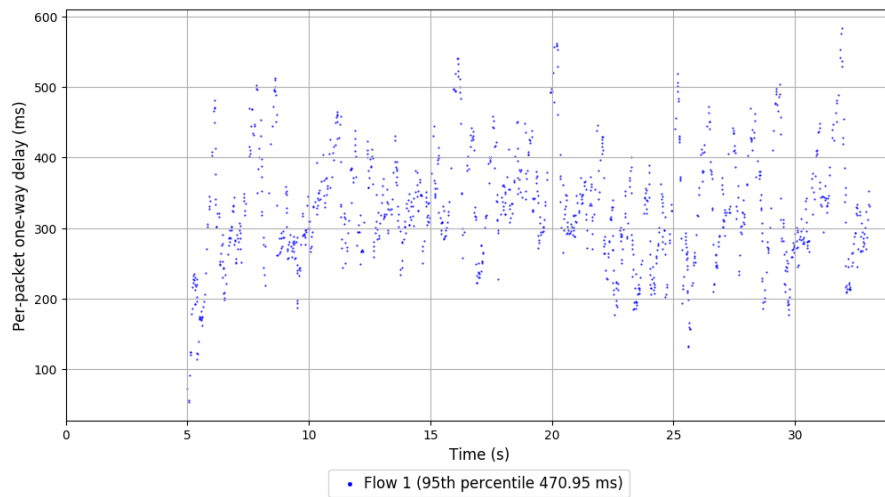
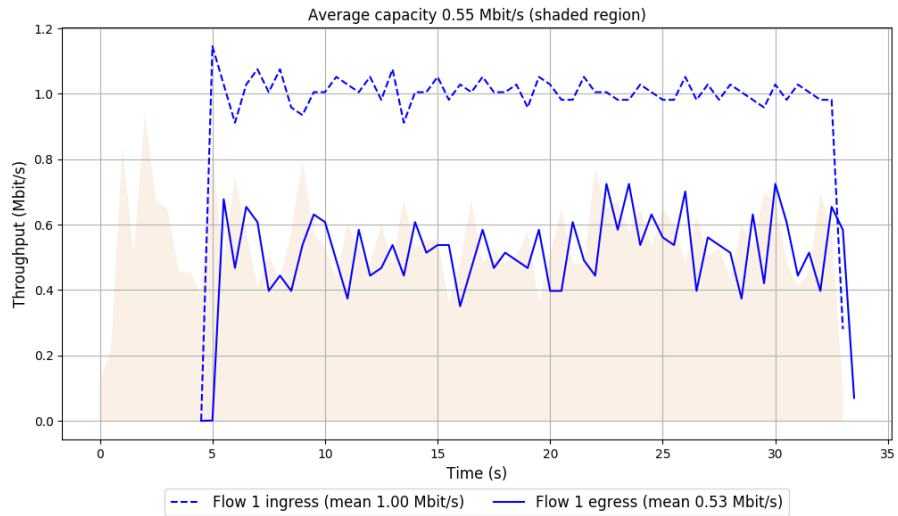
-- Flow 1:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 470.952 ms

Loss rate: 47.76%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MuseST

Start at: 2020-04-16 07:10:29

End at: 2020-04-16 07:10:59

Below is generated by plot.py at 2020-04-16 07:38:49

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.53 Mbit/s (96.1% utilization)

95th percentile per-packet one-way delay: 465.831 ms

Loss rate: 47.33%

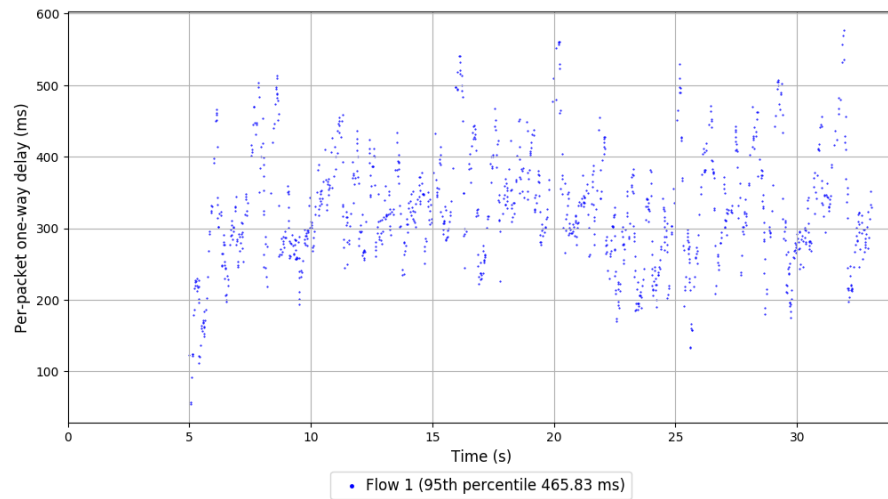
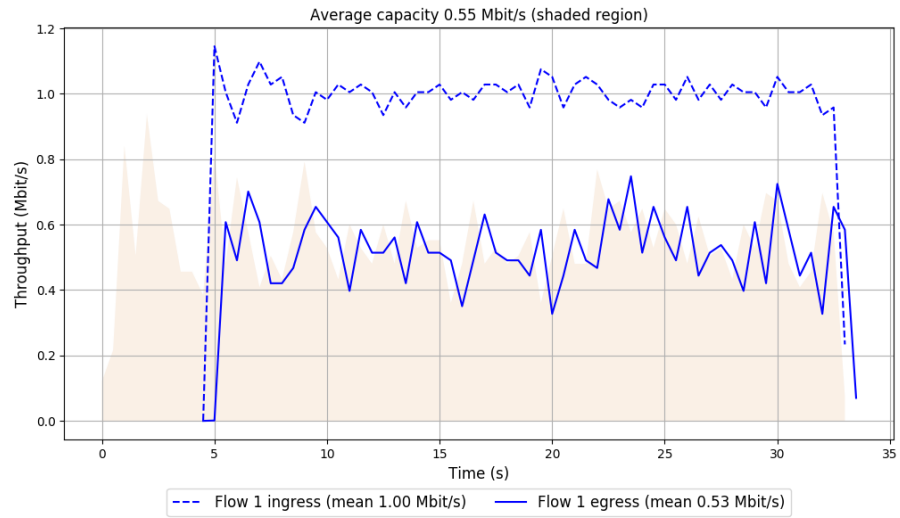
-- Flow 1:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 465.831 ms

Loss rate: 47.33%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MuseST

Start at: 2020-04-16 07:24:23

End at: 2020-04-16 07:24:53

Below is generated by plot.py at 2020-04-16 07:38:50

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.53 Mbit/s (96.8% utilization)

95th percentile per-packet one-way delay: 469.802 ms

Loss rate: 46.87%

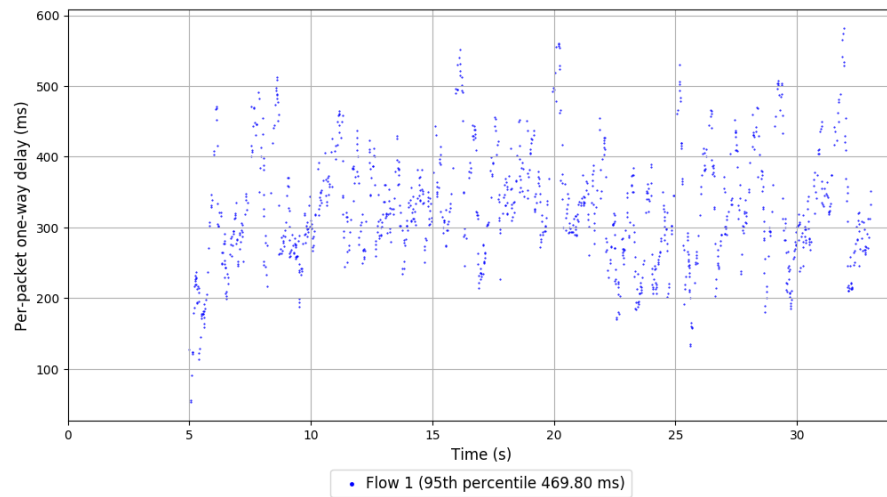
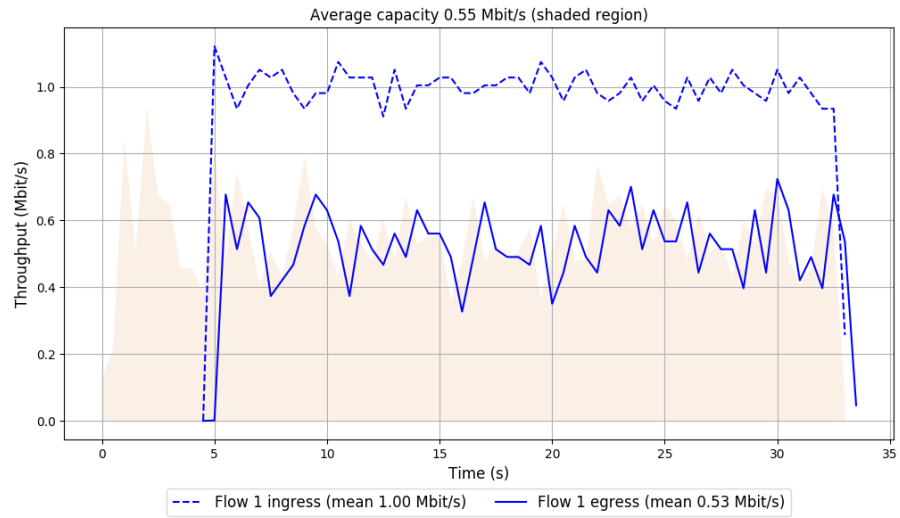
-- Flow 1:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 469.802 ms

Loss rate: 46.87%

Run 3: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2020-04-16 06:59:29

End at: 2020-04-16 06:59:59

Below is generated by plot.py at 2020-04-16 07:38:51

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.40 Mbit/s (72.3% utilization)

95th percentile per-packet one-way delay: 205.179 ms

Loss rate: 5.23%

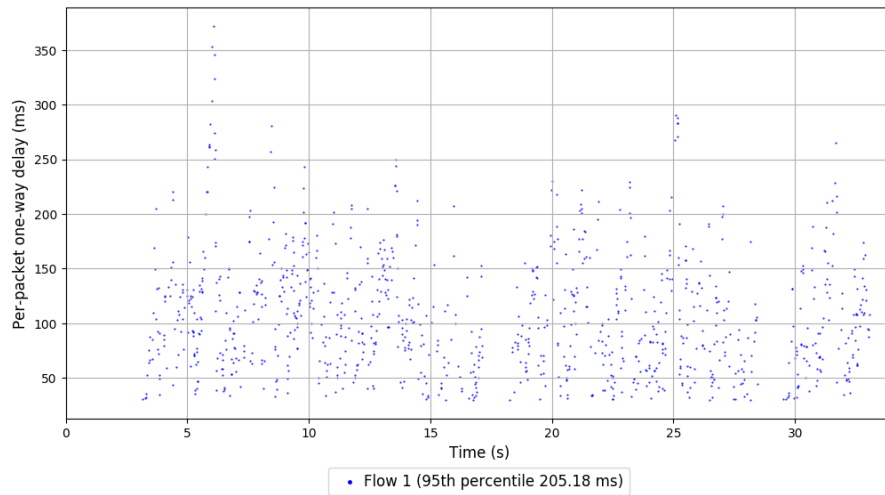
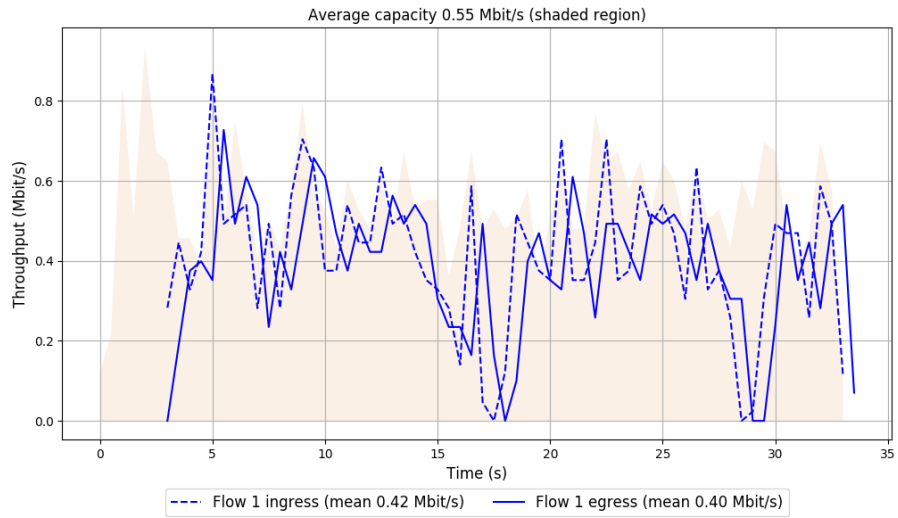
-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 205.179 ms

Loss rate: 5.23%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2020-04-16 07:13:23

End at: 2020-04-16 07:13:53

Below is generated by plot.py at 2020-04-16 07:38:51

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.39 Mbit/s (70.3% utilization)

95th percentile per-packet one-way delay: 215.786 ms

Loss rate: 4.97%

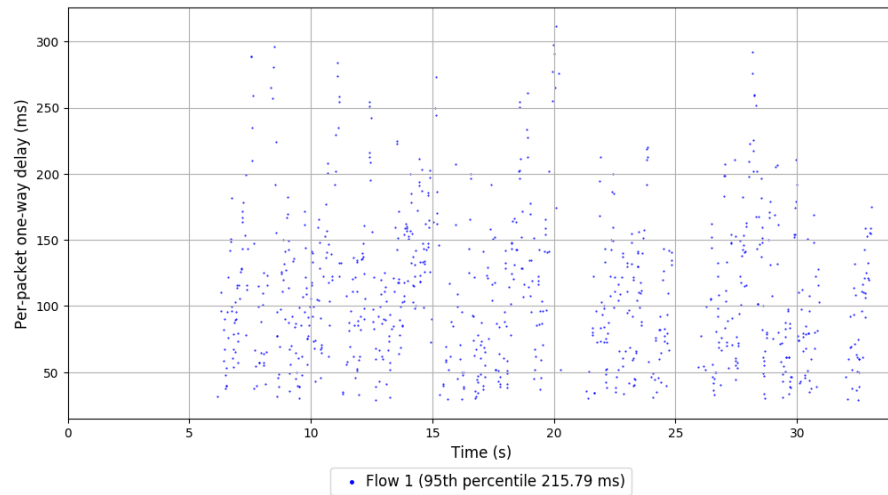
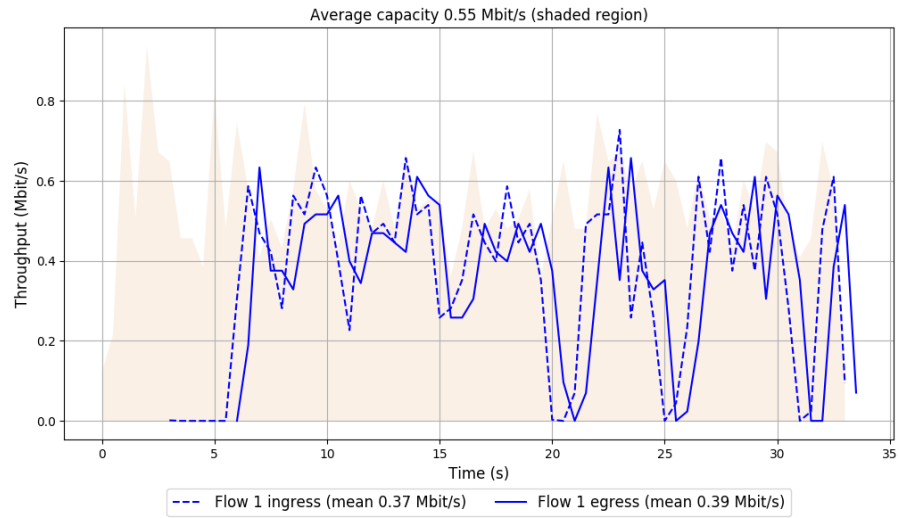
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 215.786 ms

Loss rate: 4.97%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2020-04-16 07:27:18

End at: 2020-04-16 07:27:48

Below is generated by plot.py at 2020-04-16 07:38:51

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.56 Mbit/s

Average throughput: 0.44 Mbit/s (80.0% utilization)

95th percentile per-packet one-way delay: 229.096 ms

Loss rate: 4.22%

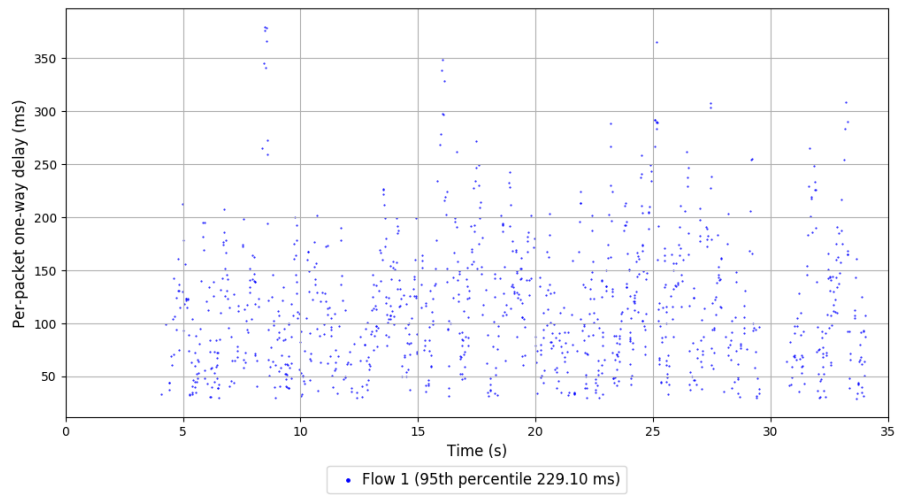
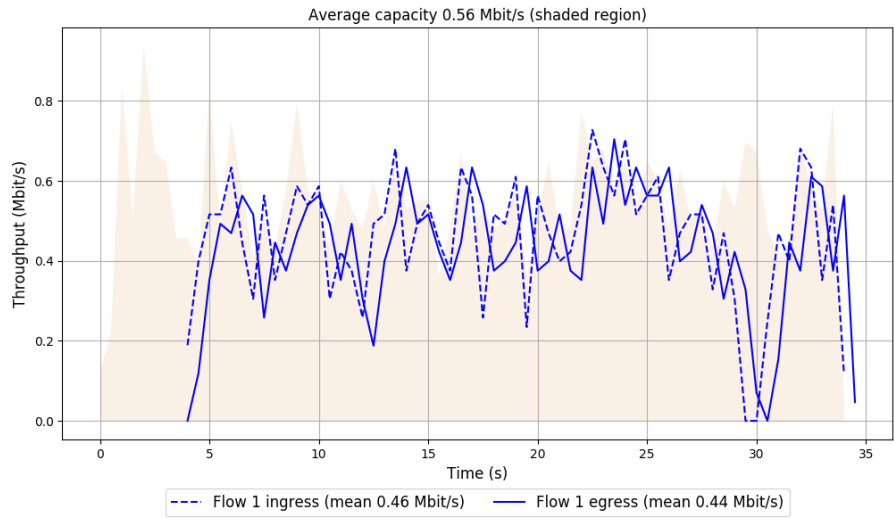
-- Flow 1:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 229.096 ms

Loss rate: 4.22%

Run 3: Report of LEDBAT — Data Link



Run 1: Statistics of Muses_DecisionTree

Start at: 2020-04-16 07:05:51

End at: 2020-04-16 07:06:21

Below is generated by plot.py at 2020-04-16 07:38:52

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.23 Mbit/s (41.0% utilization)

95th percentile per-packet one-way delay: 281.658 ms

Loss rate: 5.78%

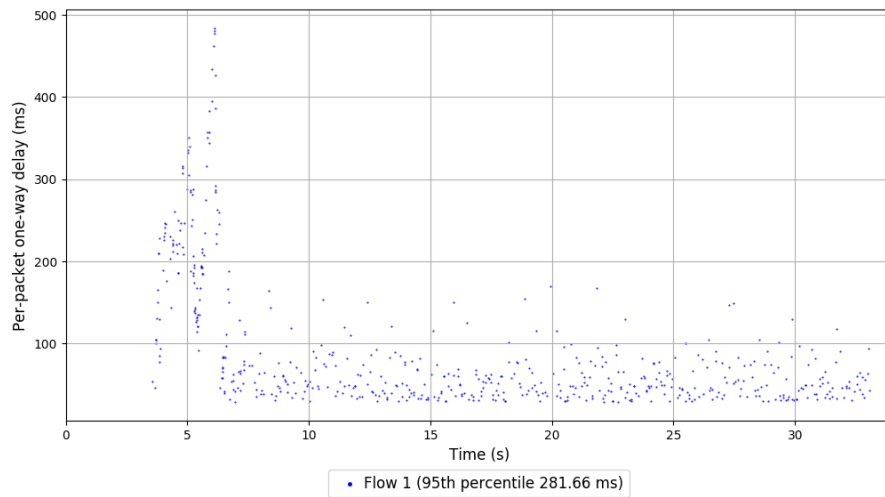
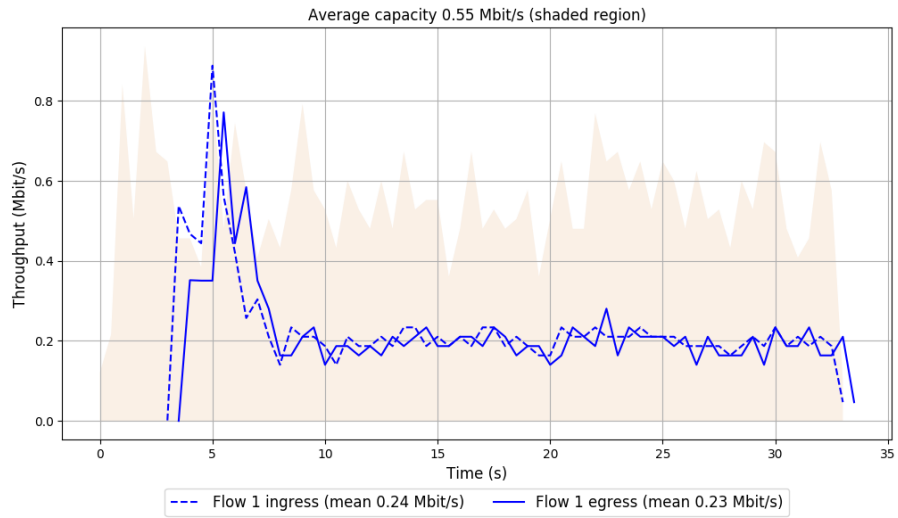
-- Flow 1:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 281.658 ms

Loss rate: 5.78%

Run 1: Report of Muses_DecisionTree — Data Link



Run 2: Statistics of Muses_DecisionTree

Start at: 2020-04-16 07:19:45

End at: 2020-04-16 07:20:15

Below is generated by plot.py at 2020-04-16 07:38:55

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.21 Mbit/s (38.7% utilization)

95th percentile per-packet one-way delay: 234.211 ms

Loss rate: 5.03%

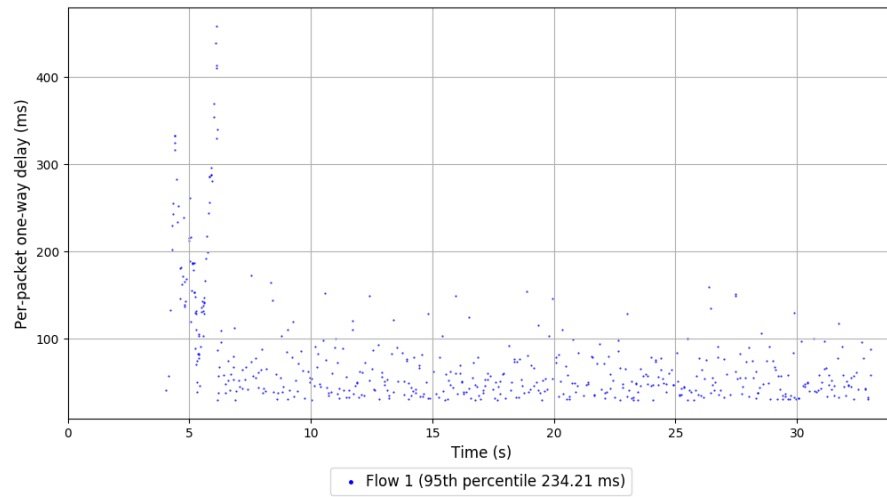
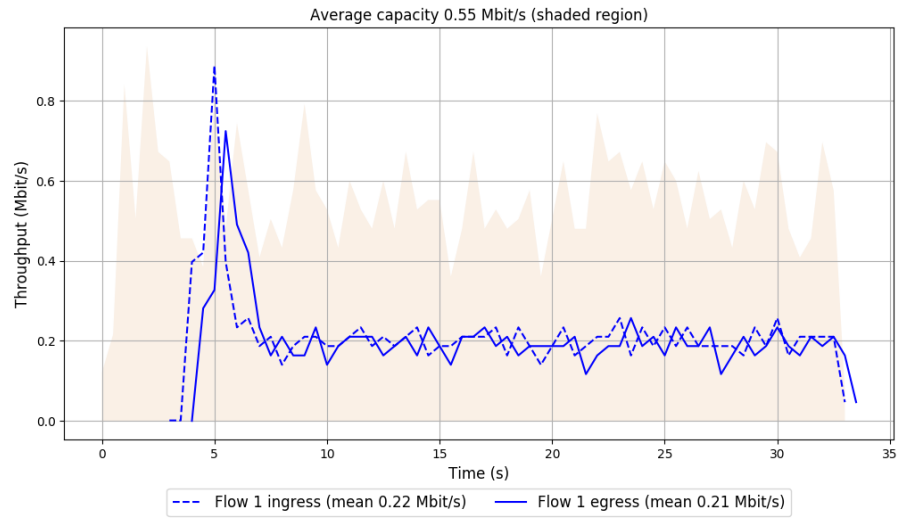
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 234.211 ms

Loss rate: 5.03%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

Start at: 2020-04-16 07:33:41

End at: 2020-04-16 07:34:11

Below is generated by plot.py at 2020-04-16 07:38:56

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.20 Mbit/s (36.6% utilization)

95th percentile per-packet one-way delay: 220.428 ms

Loss rate: 5.56%

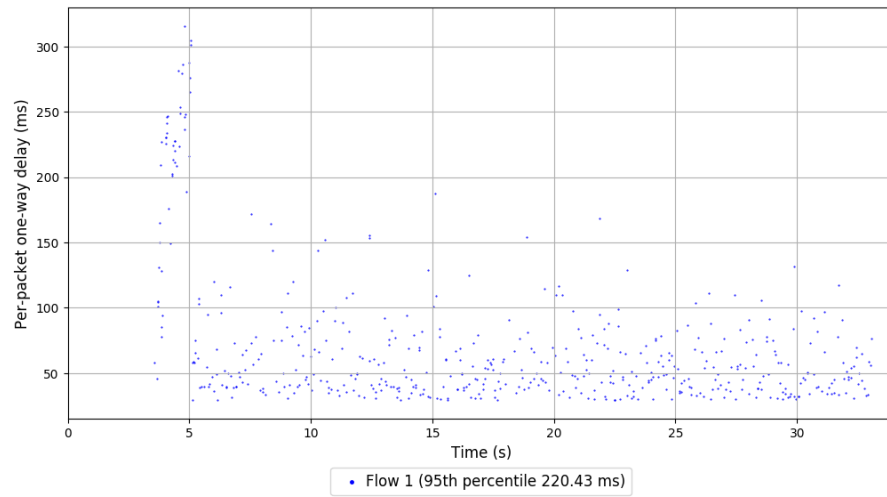
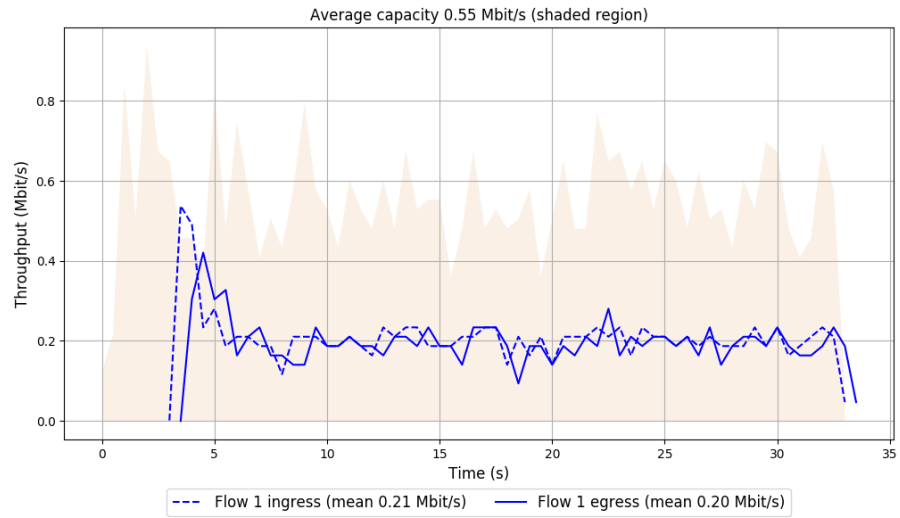
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 220.428 ms

Loss rate: 5.56%

Run 3: Report of Muses_DecisionTree — Data Link



Run 1: Statistics of Muses_DecisionTreeH0

Start at: 2020-04-16 06:57:10

End at: 2020-04-16 06:57:40

Below is generated by plot.py at 2020-04-16 07:38:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.22 Mbit/s (40.0% utilization)

95th percentile per-packet one-way delay: 262.167 ms

Loss rate: 6.22%

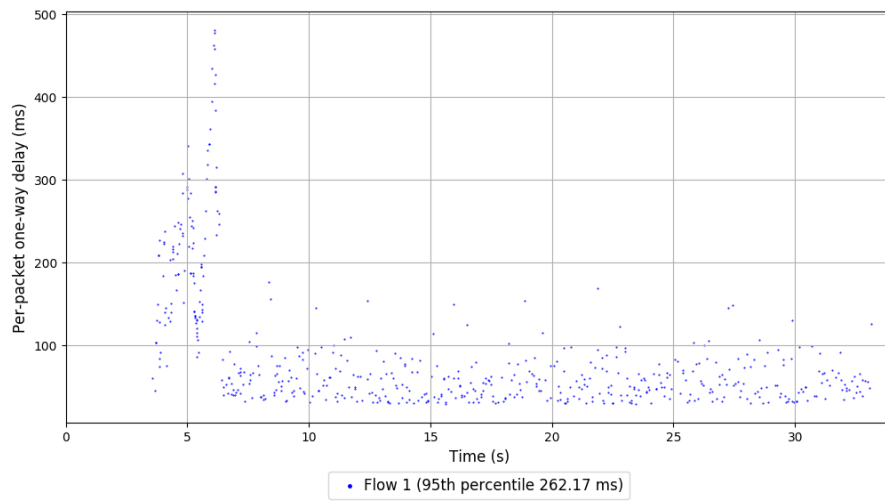
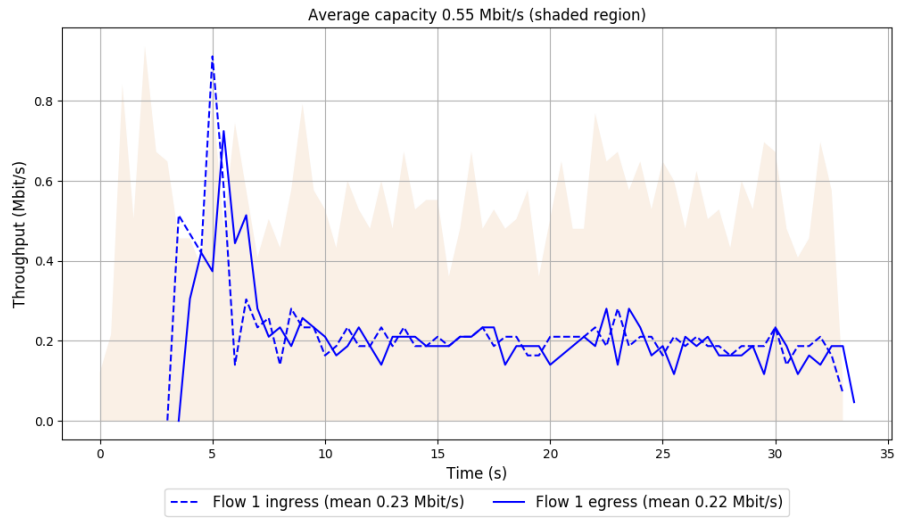
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 262.167 ms

Loss rate: 6.22%

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2020-04-16 07:11:04

End at: 2020-04-16 07:11:34

Below is generated by plot.py at 2020-04-16 07:38:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.22 Mbit/s (40.5% utilization)

95th percentile per-packet one-way delay: 278.812 ms

Loss rate: 5.83%

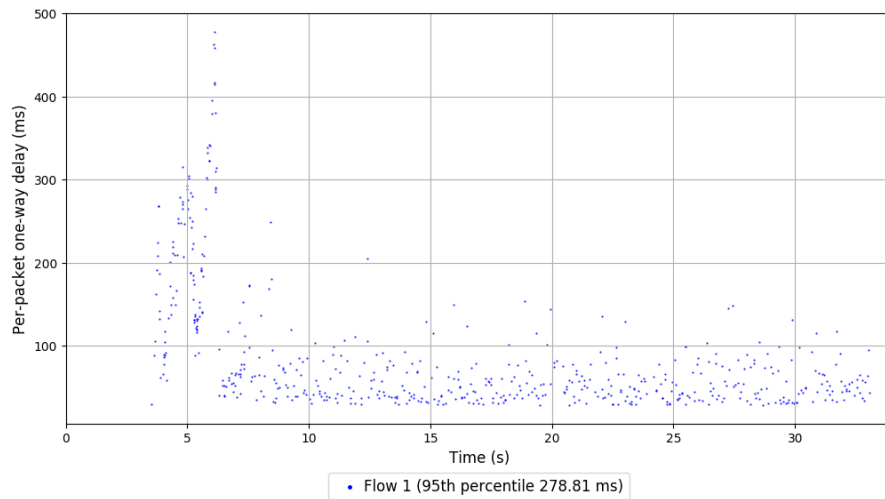
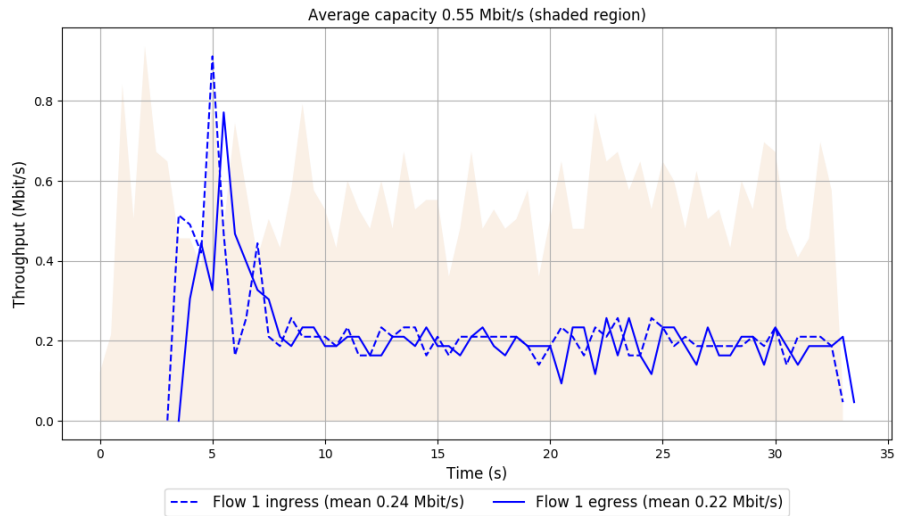
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 278.812 ms

Loss rate: 5.83%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2020-04-16 07:24:58

End at: 2020-04-16 07:25:28

Below is generated by plot.py at 2020-04-16 07:38:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.20 Mbit/s (36.6% utilization)

95th percentile per-packet one-way delay: 219.620 ms

Loss rate: 5.38%

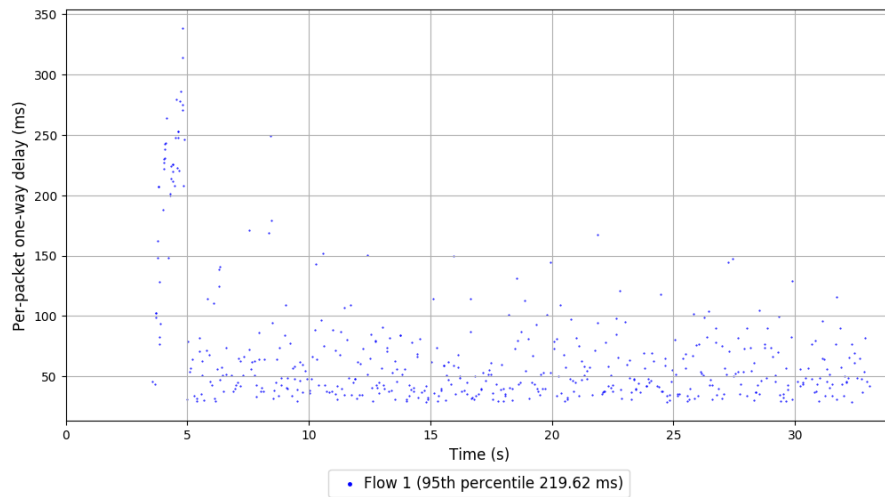
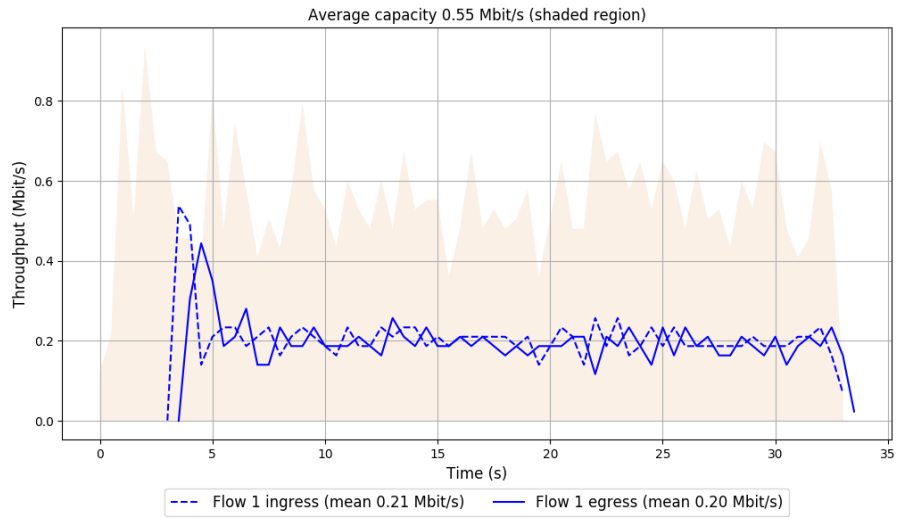
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 219.620 ms

Loss rate: 5.38%

Run 3: Report of Muses_DecisionTreeH0 — Data Link



Run 1: Statistics of Muses_DecisionTreeR0

Start at: 2020-04-16 07:09:55

End at: 2020-04-16 07:10:25

Below is generated by plot.py at 2020-04-16 07:38:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.23 Mbit/s (41.2% utilization)

95th percentile per-packet one-way delay: 287.075 ms

Loss rate: 5.45%

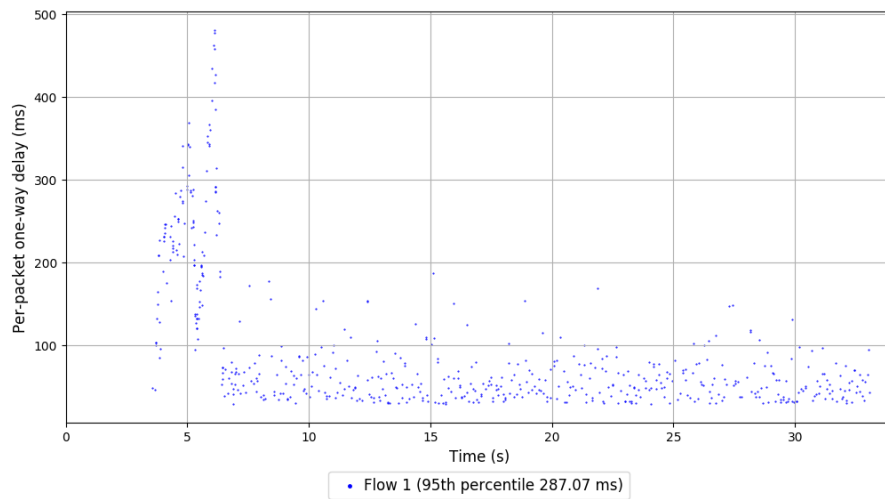
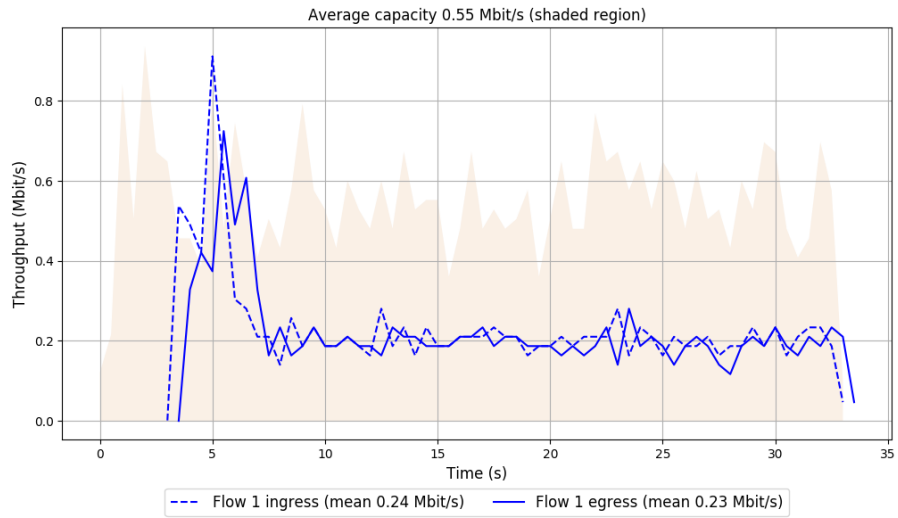
-- Flow 1:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 287.075 ms

Loss rate: 5.45%

Run 1: Report of Muses_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2020-04-16 07:23:49

End at: 2020-04-16 07:24:19

Below is generated by plot.py at 2020-04-16 07:38:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.21 Mbit/s (38.0% utilization)

95th percentile per-packet one-way delay: 231.011 ms

Loss rate: 4.00%

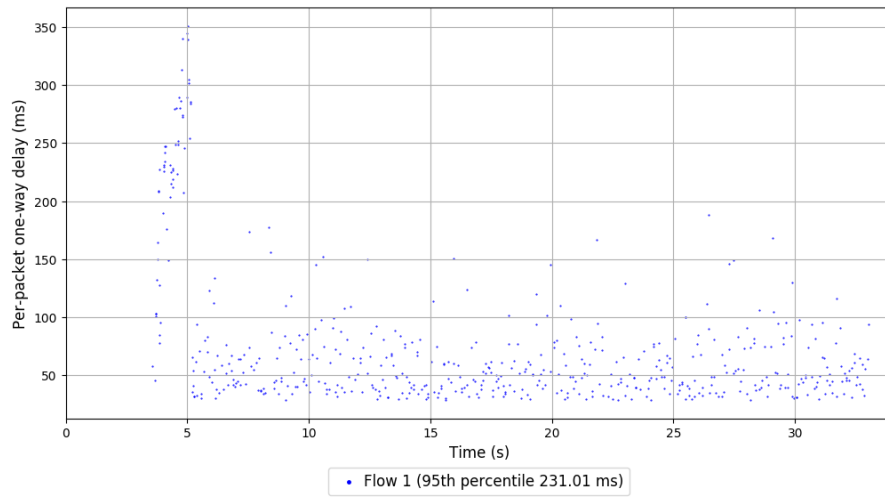
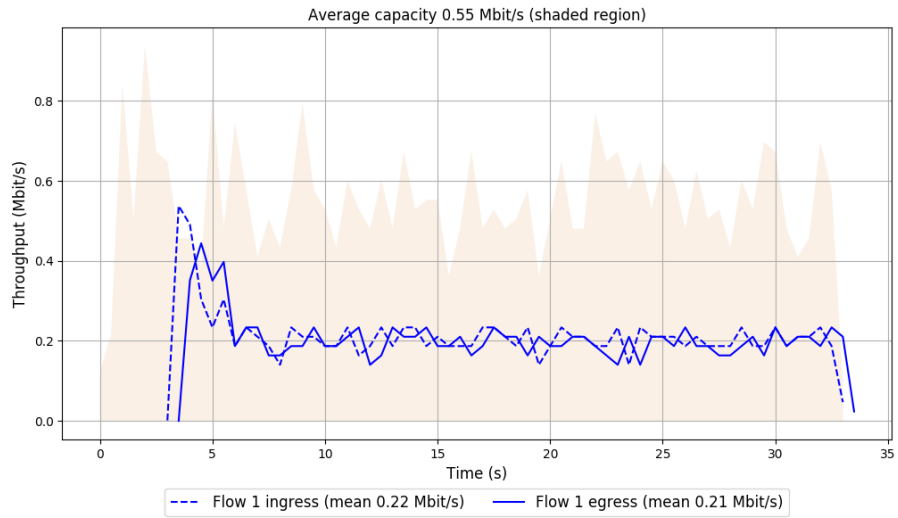
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 231.011 ms

Loss rate: 4.00%

Run 2: Report of Muses_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2020-04-16 07:37:45

End at: 2020-04-16 07:38:15

Below is generated by plot.py at 2020-04-16 07:38:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.56 Mbit/s

Average throughput: 0.21 Mbit/s (38.1% utilization)

95th percentile per-packet one-way delay: 261.880 ms

Loss rate: 4.47%

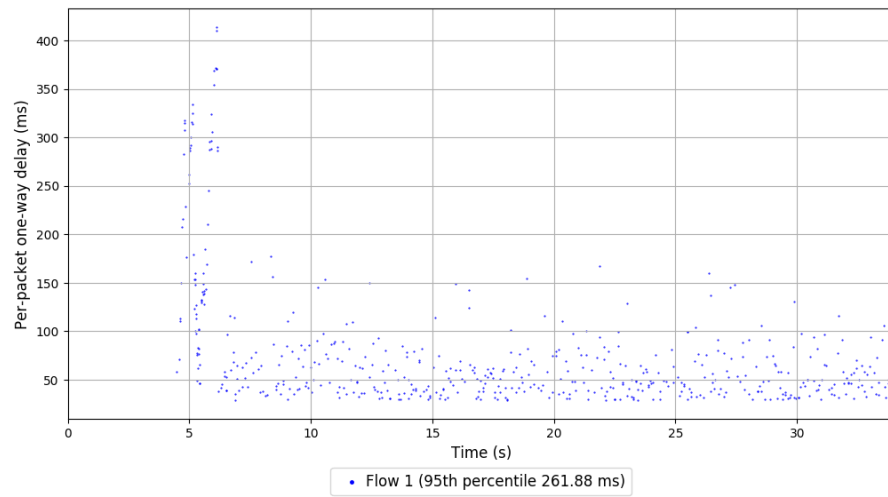
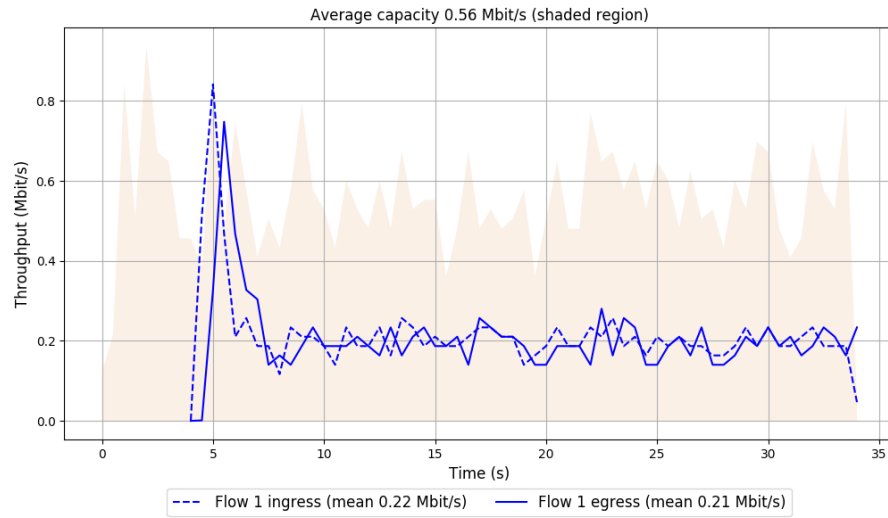
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 261.880 ms

Loss rate: 4.47%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2020-04-16 07:06:26

End at: 2020-04-16 07:06:56

Below is generated by plot.py at 2020-04-16 07:39:04

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.8% utilization)

95th percentile per-packet one-way delay: 480.594 ms

Loss rate: 89.14%

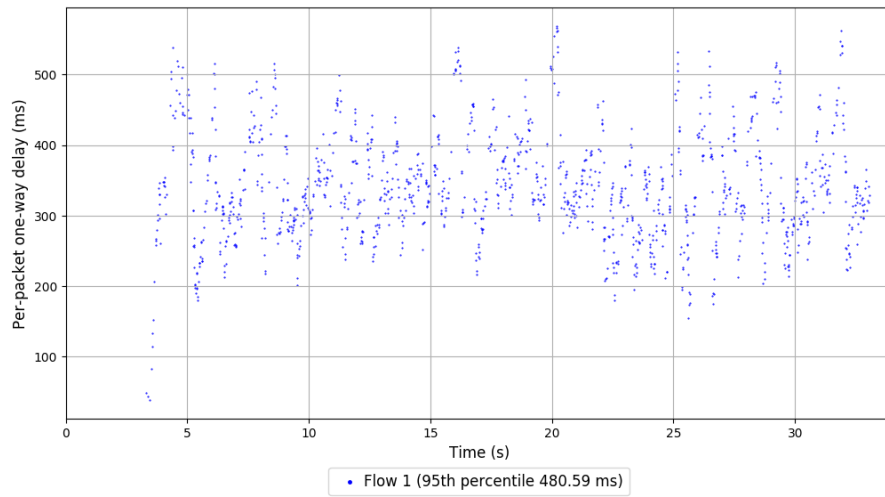
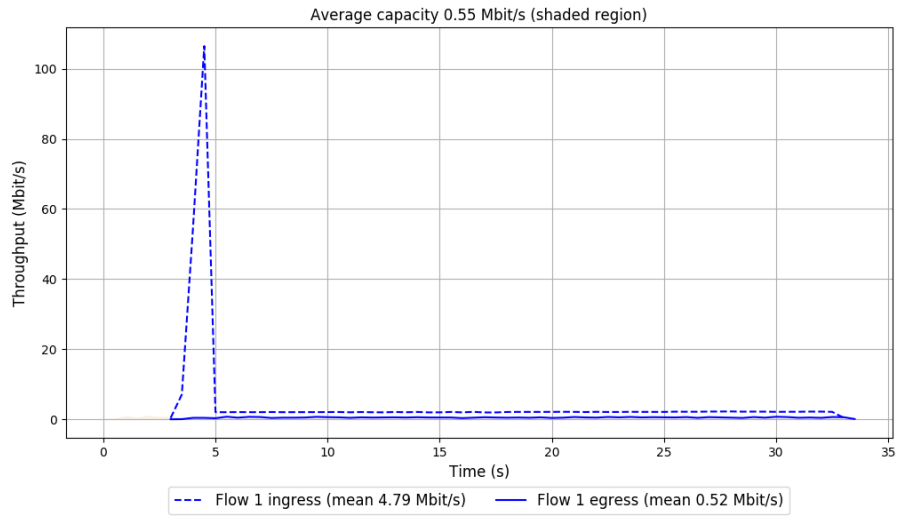
-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 480.594 ms

Loss rate: 89.14%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2020-04-16 07:20:20

End at: 2020-04-16 07:20:50

Below is generated by plot.py at 2020-04-16 07:39:04

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.2% utilization)

95th percentile per-packet one-way delay: 488.702 ms

Loss rate: 87.25%

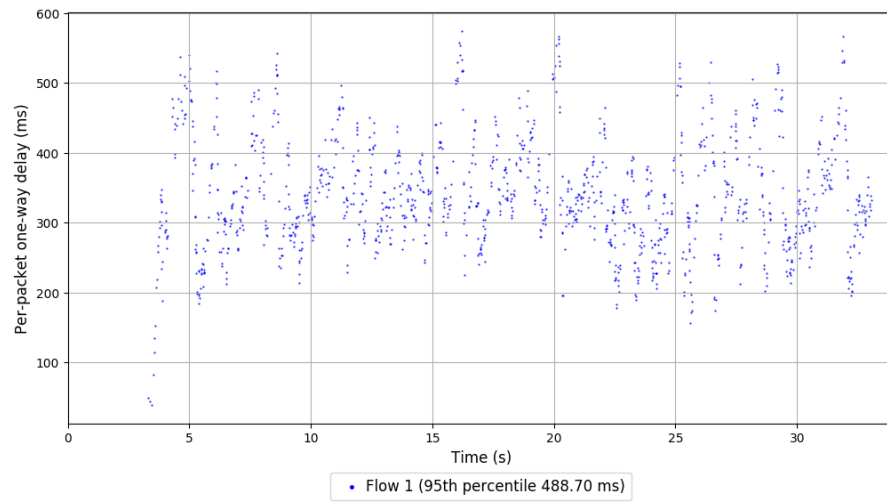
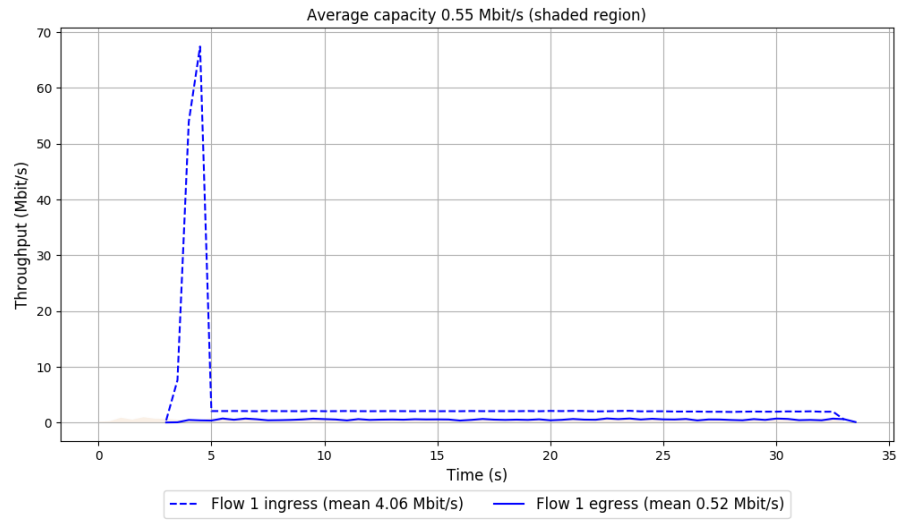
-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 488.702 ms

Loss rate: 87.25%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2020-04-16 07:34:16

End at: 2020-04-16 07:34:46

Below is generated by plot.py at 2020-04-16 07:39:04

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.53 Mbit/s (95.5% utilization)

95th percentile per-packet one-way delay: 482.295 ms

Loss rate: 80.91%

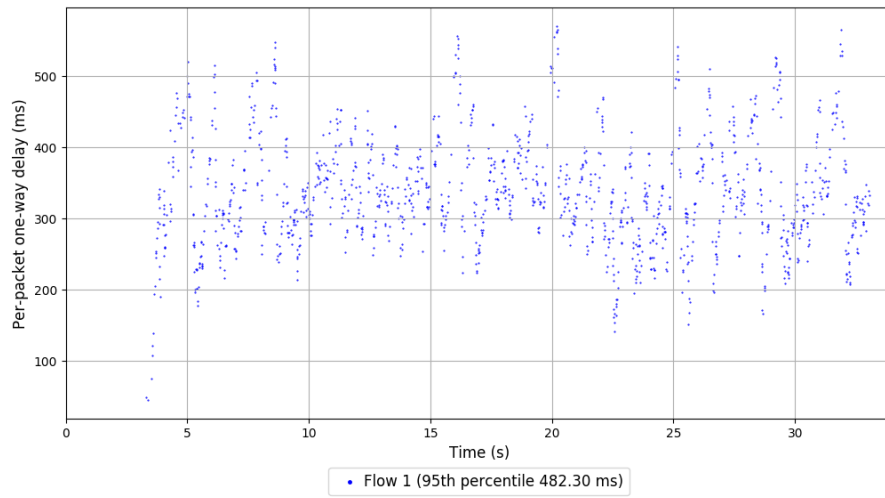
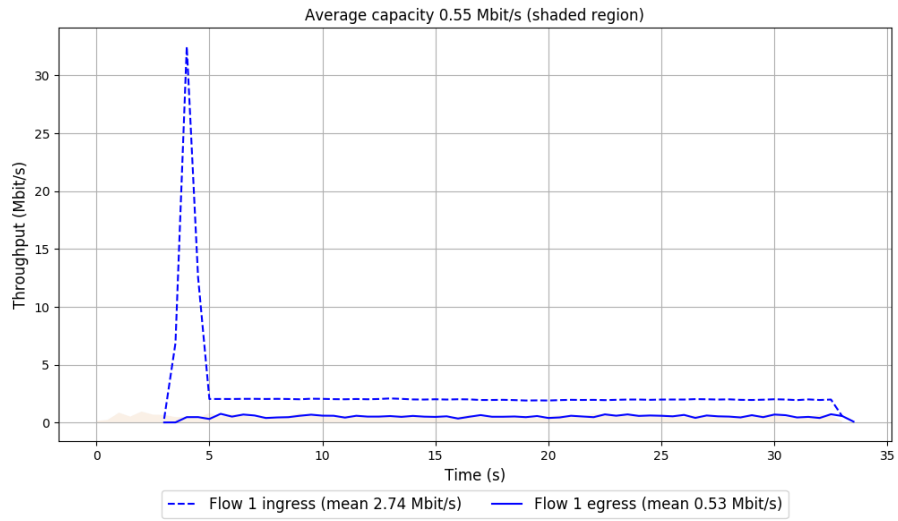
-- Flow 1:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 482.295 ms

Loss rate: 80.91%

Run 3: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

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

End at: 2020-04-16 07:04:37

Below is generated by plot.py at 2020-04-16 07:39:11

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.51 Mbit/s (93.4% utilization)

95th percentile per-packet one-way delay: 389.750 ms

Loss rate: 91.65%

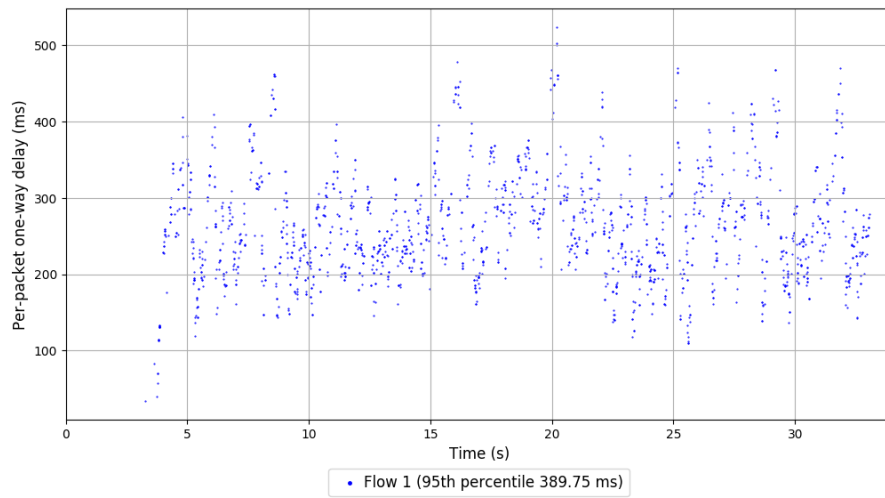
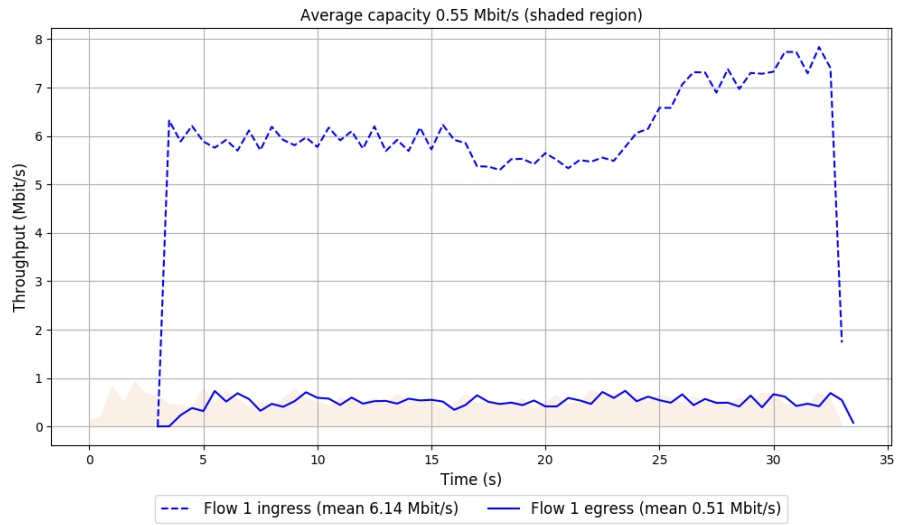
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 389.750 ms

Loss rate: 91.65%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2020-04-16 07:18:01

End at: 2020-04-16 07:18:31

Below is generated by plot.py at 2020-04-16 07:39:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.5% utilization)

95th percentile per-packet one-way delay: 408.662 ms

Loss rate: 92.38%

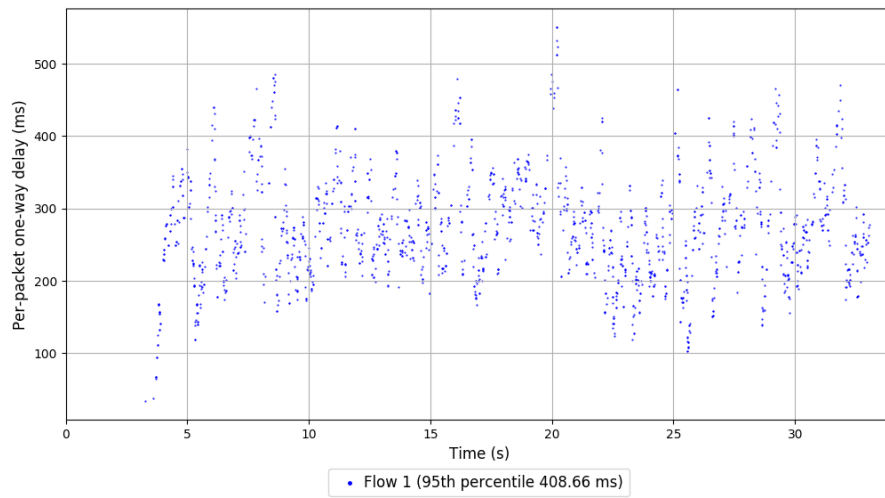
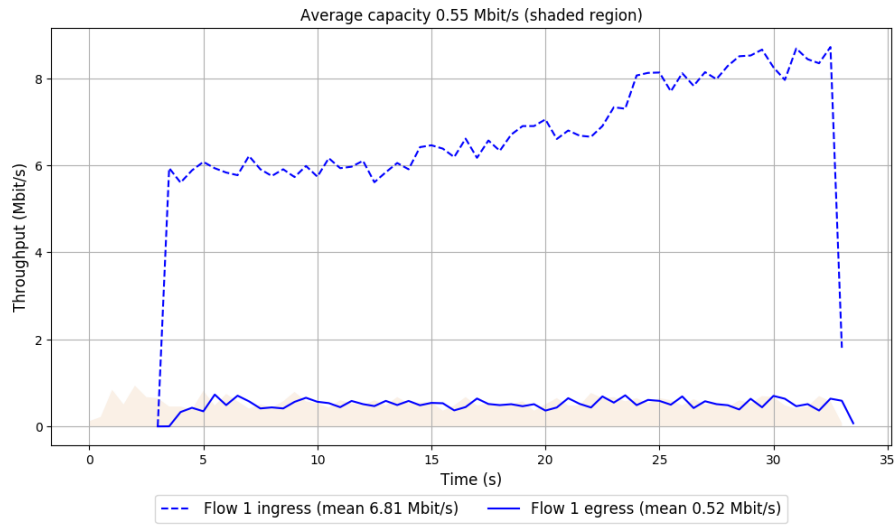
-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 408.662 ms

Loss rate: 92.38%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2020-04-16 07:31:57

End at: 2020-04-16 07:32:27

Below is generated by plot.py at 2020-04-16 07:39:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (93.7% utilization)

95th percentile per-packet one-way delay: 391.572 ms

Loss rate: 91.96%

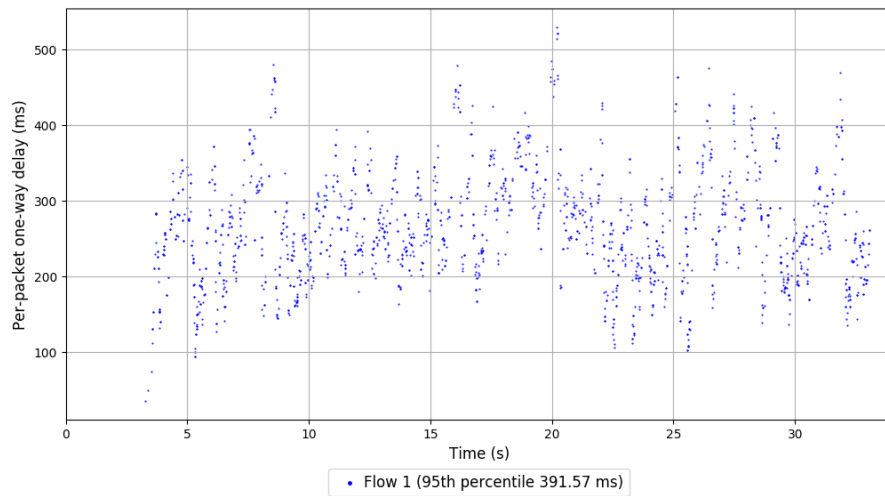
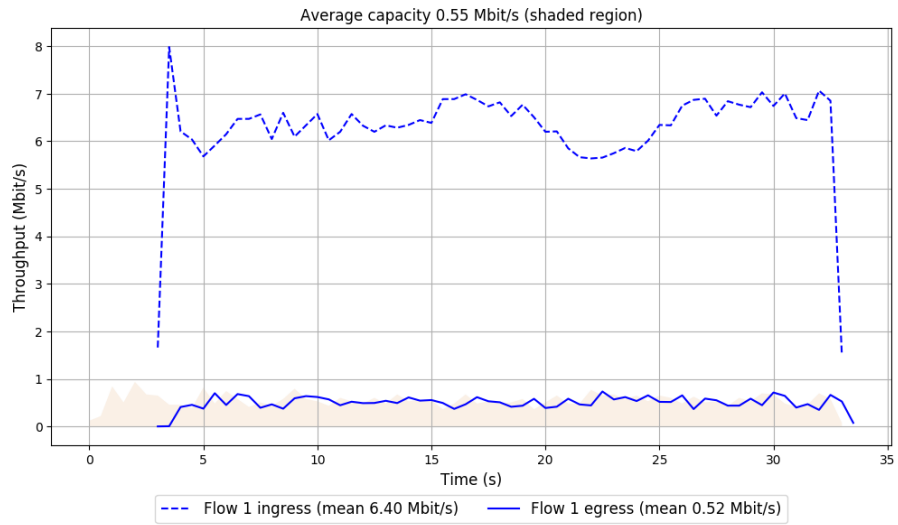
-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 391.572 ms

Loss rate: 91.96%

Run 3: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2020-04-16 07:09:20

End at: 2020-04-16 07:09:50

Below is generated by plot.py at 2020-04-16 07:39:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (93.7% utilization)

95th percentile per-packet one-way delay: 382.632 ms

Loss rate: 10.91%

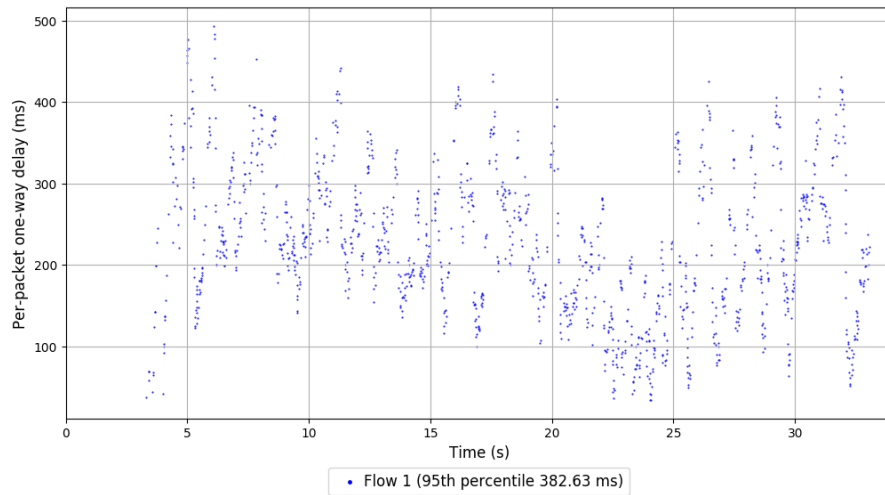
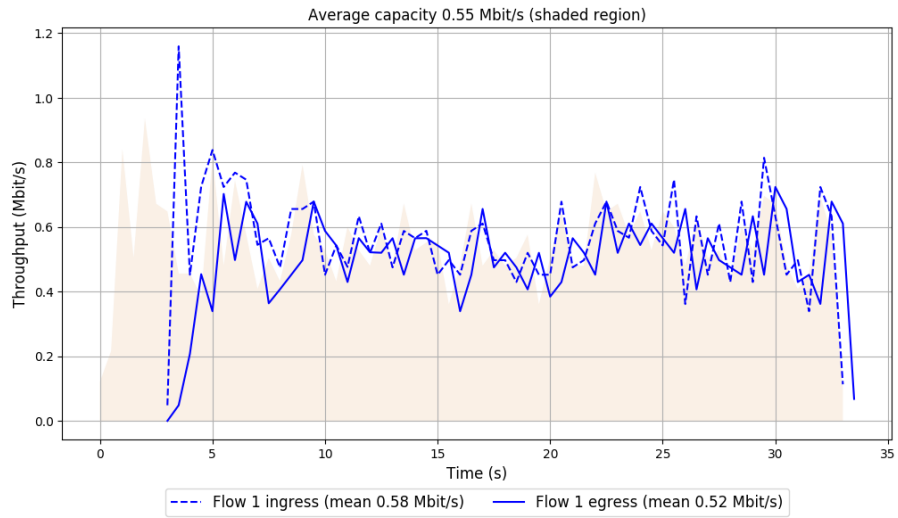
-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 382.632 ms

Loss rate: 10.91%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2020-04-16 07:23:14

End at: 2020-04-16 07:23:44

Below is generated by plot.py at 2020-04-16 07:39:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.51 Mbit/s (93.0% utilization)

95th percentile per-packet one-way delay: 354.581 ms

Loss rate: 10.91%

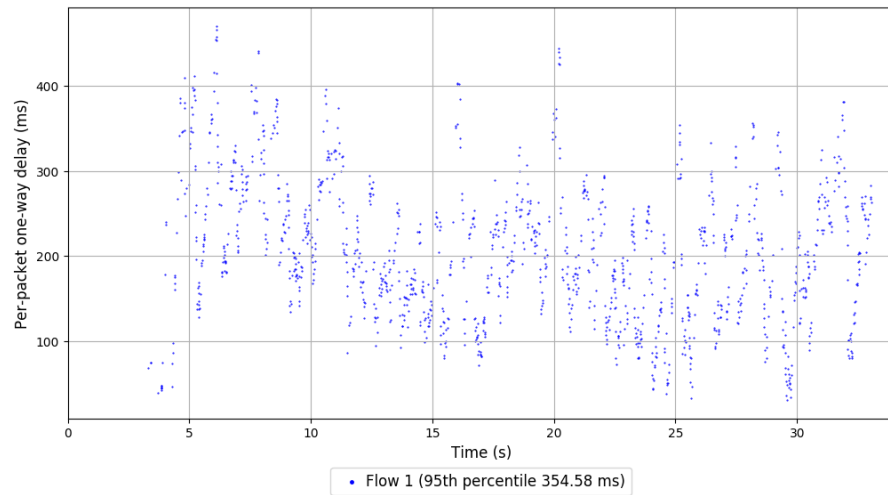
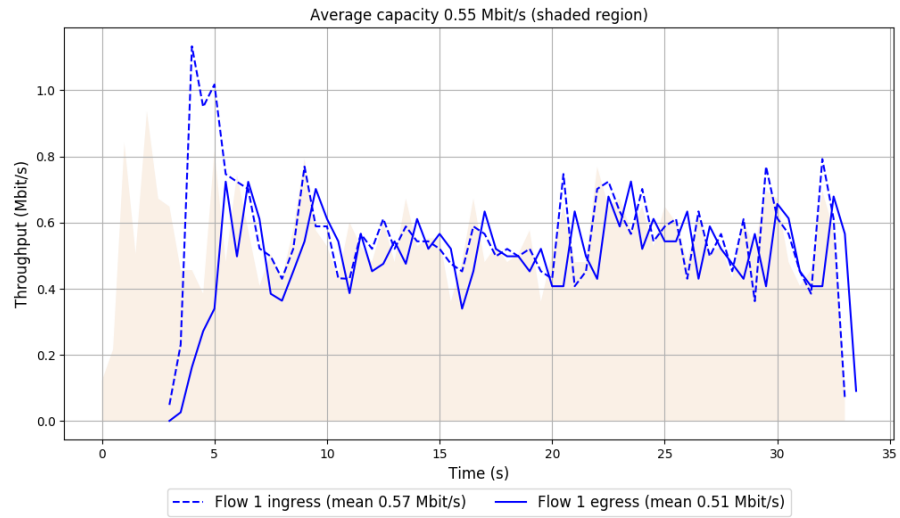
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 354.581 ms

Loss rate: 10.91%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2020-04-16 07:37:10

End at: 2020-04-16 07:37:40

Below is generated by plot.py at 2020-04-16 07:39:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (93.6% utilization)

95th percentile per-packet one-way delay: 364.607 ms

Loss rate: 9.54%

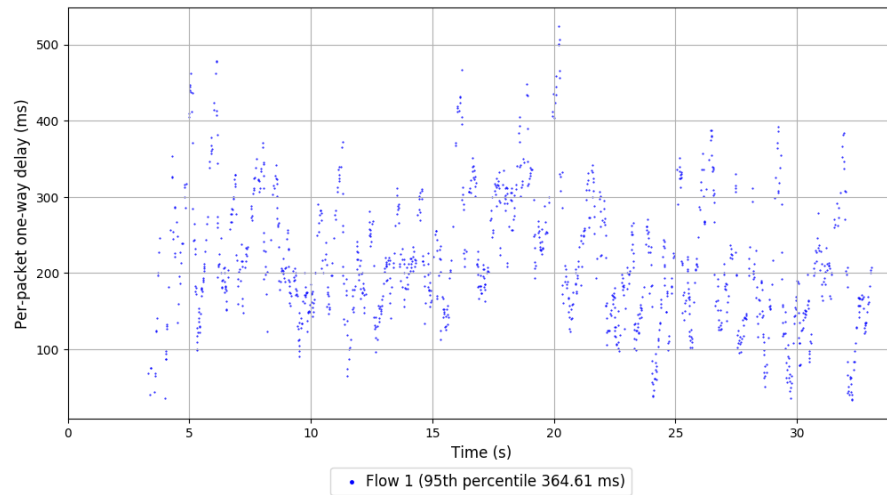
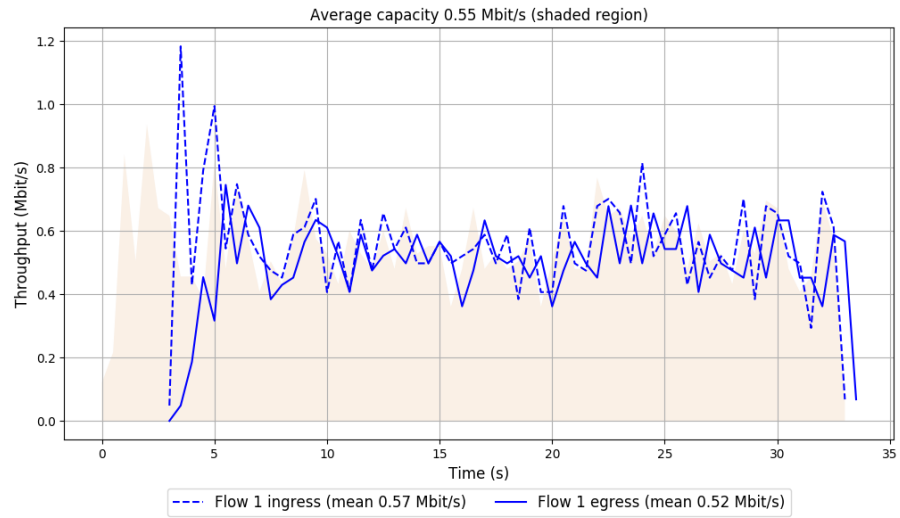
-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 364.607 ms

Loss rate: 9.54%

Run 3: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2020-04-16 07:04:42

End at: 2020-04-16 07:05:12

Below is generated by plot.py at 2020-04-16 07:39:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.08 Mbit/s (14.4% utilization)

95th percentile per-packet one-way delay: 92.754 ms

Loss rate: 5.86%

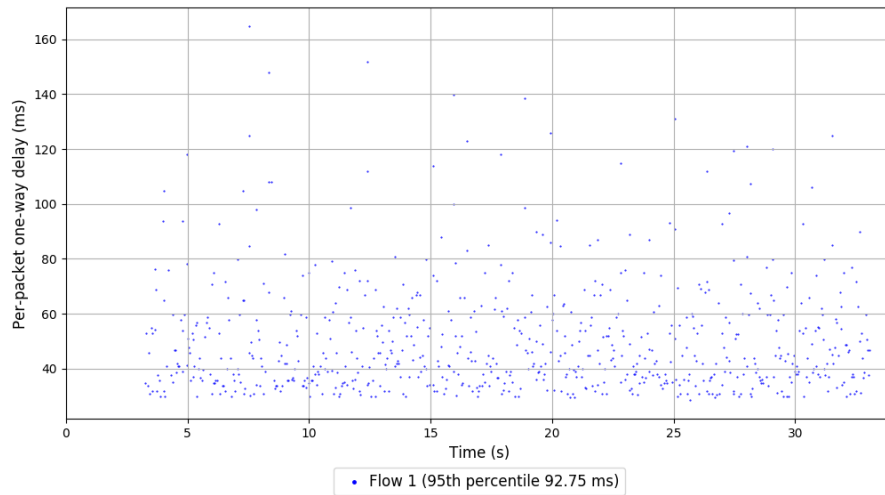
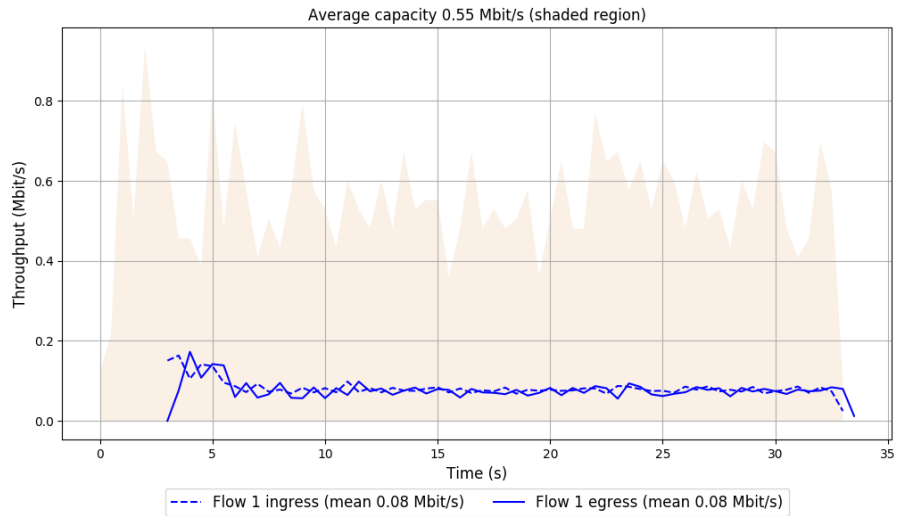
-- Flow 1:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 92.754 ms

Loss rate: 5.86%

Run 1: Report of SCReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2020-04-16 07:18:36

End at: 2020-04-16 07:19:06

Below is generated by plot.py at 2020-04-16 07:39:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.09 Mbit/s (15.8% utilization)

95th percentile per-packet one-way delay: 95.663 ms

Loss rate: 5.20%

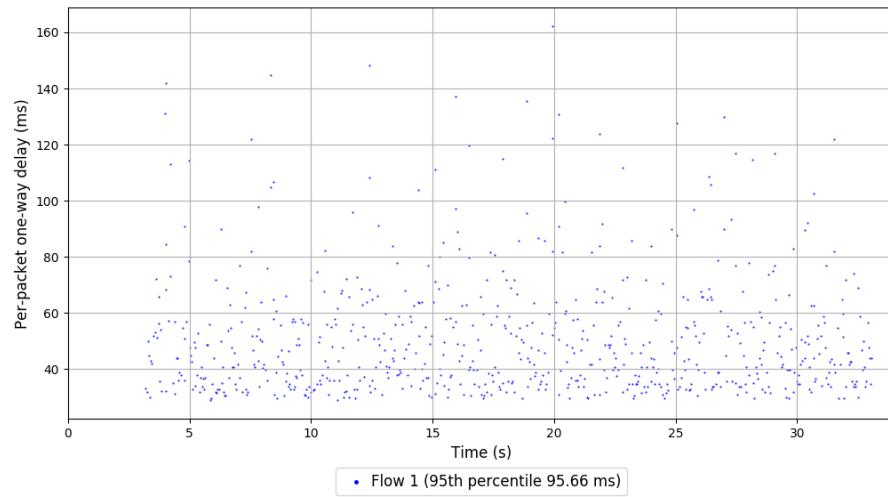
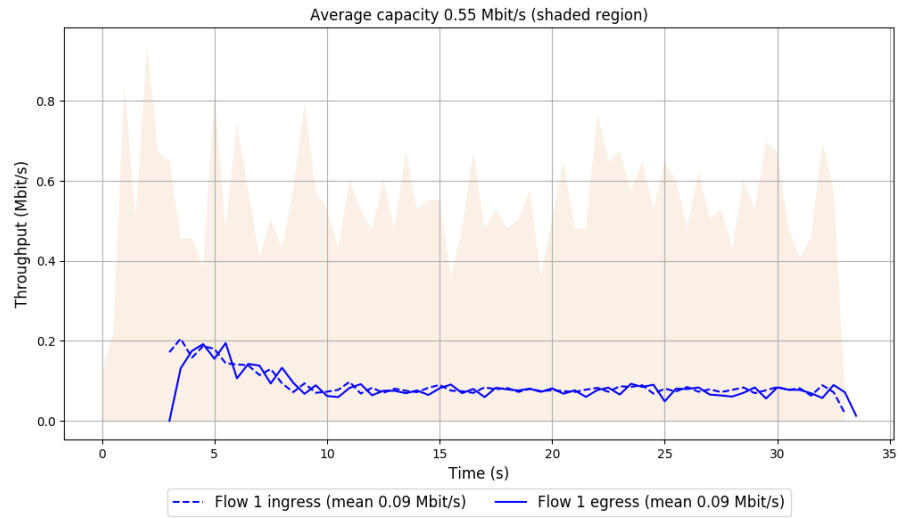
-- Flow 1:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 95.663 ms

Loss rate: 5.20%

Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

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

End at: 2020-04-16 07:33:02

Below is generated by plot.py at 2020-04-16 07:39:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.10 Mbit/s (17.3% utilization)

95th percentile per-packet one-way delay: 92.769 ms

Loss rate: 4.19%

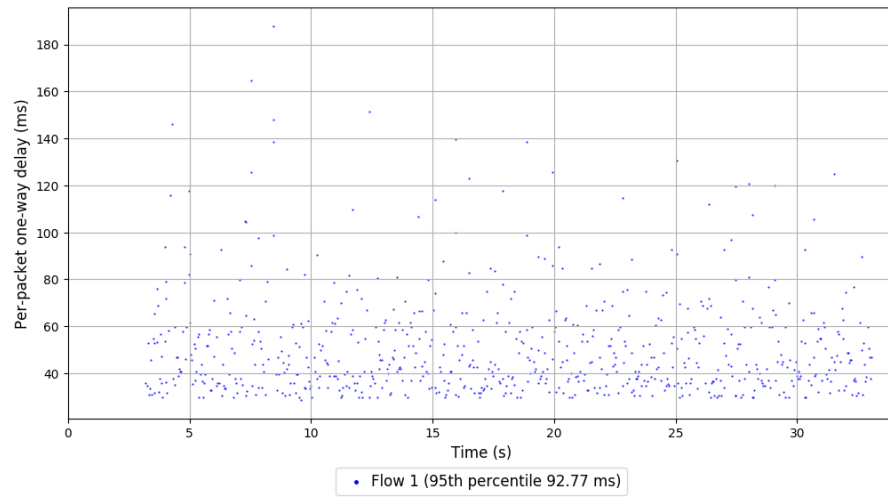
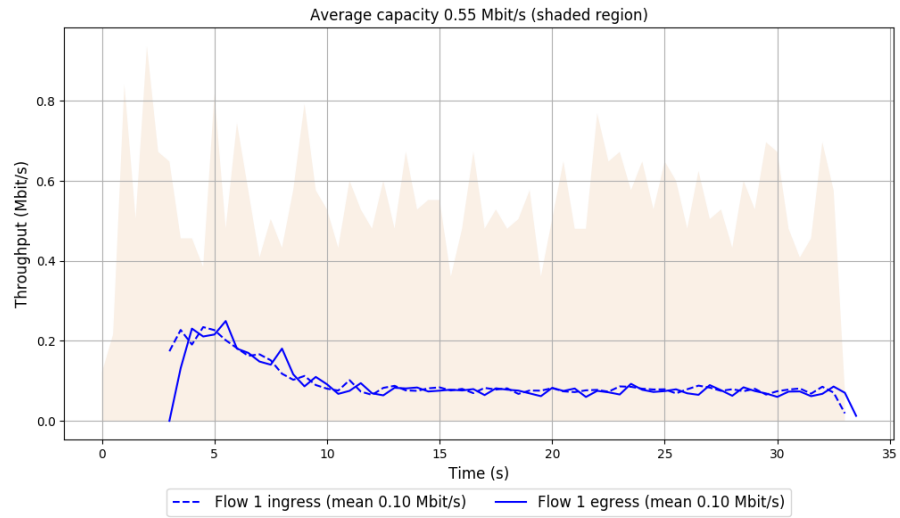
-- Flow 1:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 92.769 ms

Loss rate: 4.19%

Run 3: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2020-04-16 07:05:17

End at: 2020-04-16 07:05:47

Below is generated by plot.py at 2020-04-16 07:39:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.25 Mbit/s (44.5% utilization)

95th percentile per-packet one-way delay: 153.875 ms

Loss rate: 5.42%

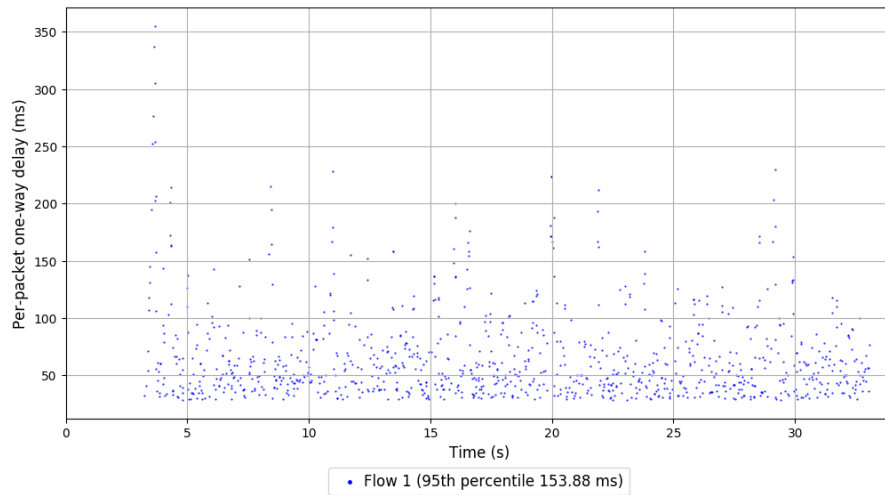
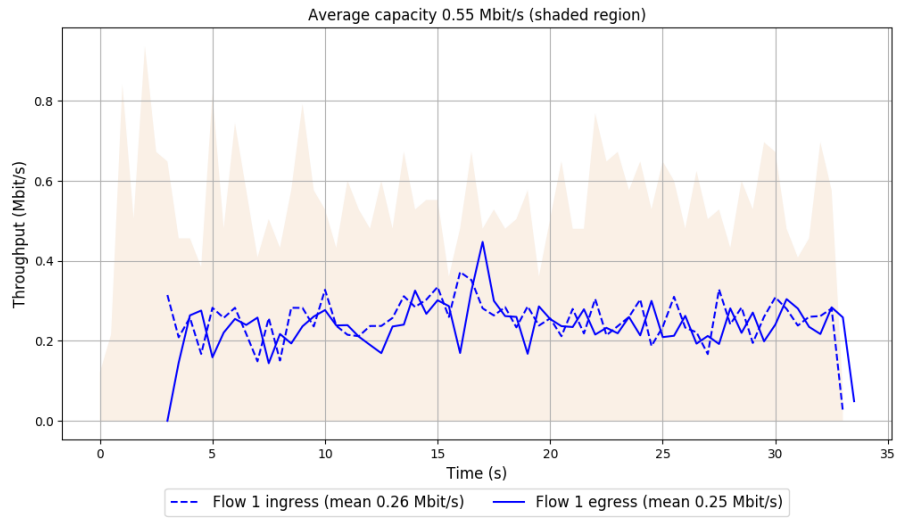
-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 153.875 ms

Loss rate: 5.42%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2020-04-16 07:19:11

End at: 2020-04-16 07:19:41

Below is generated by plot.py at 2020-04-16 07:39:16

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.24 Mbit/s (43.2% utilization)

95th percentile per-packet one-way delay: 136.308 ms

Loss rate: 5.58%

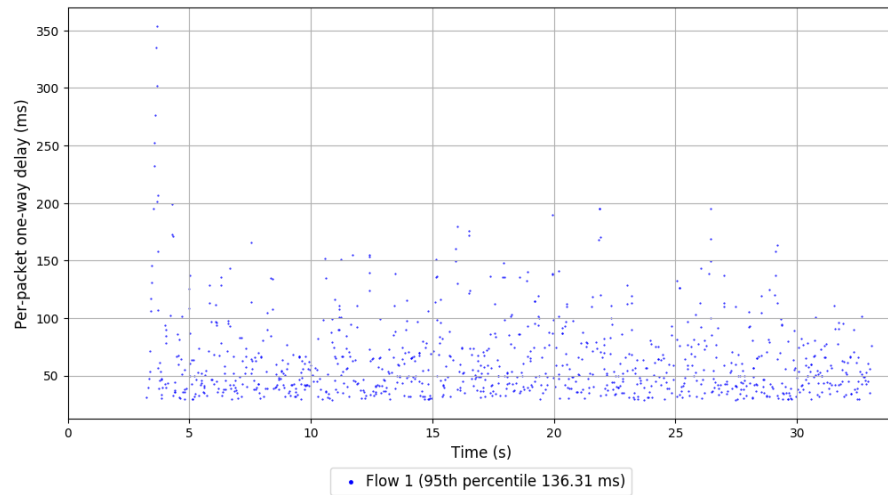
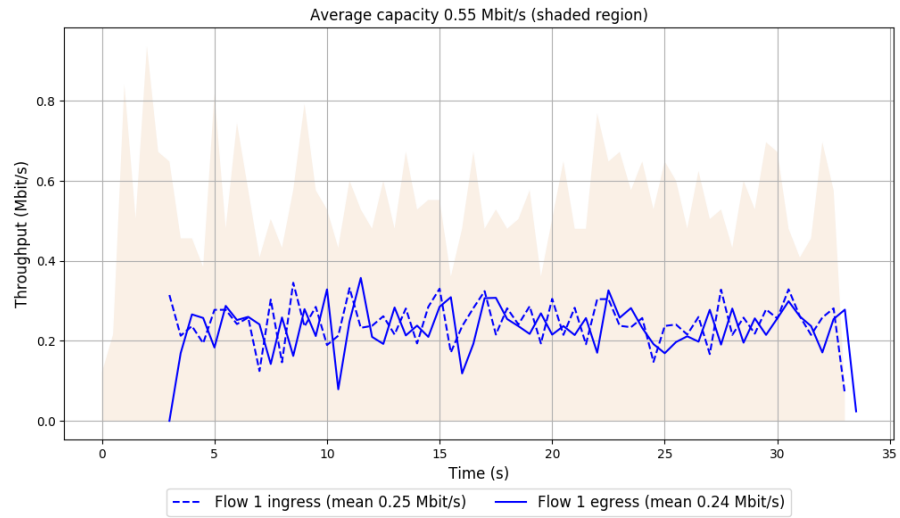
-- Flow 1:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 136.308 ms

Loss rate: 5.58%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2020-04-16 07:33:06

End at: 2020-04-16 07:33:36

Below is generated by plot.py at 2020-04-16 07:39:16

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.24 Mbit/s (44.4% utilization)

95th percentile per-packet one-way delay: 151.569 ms

Loss rate: 5.10%

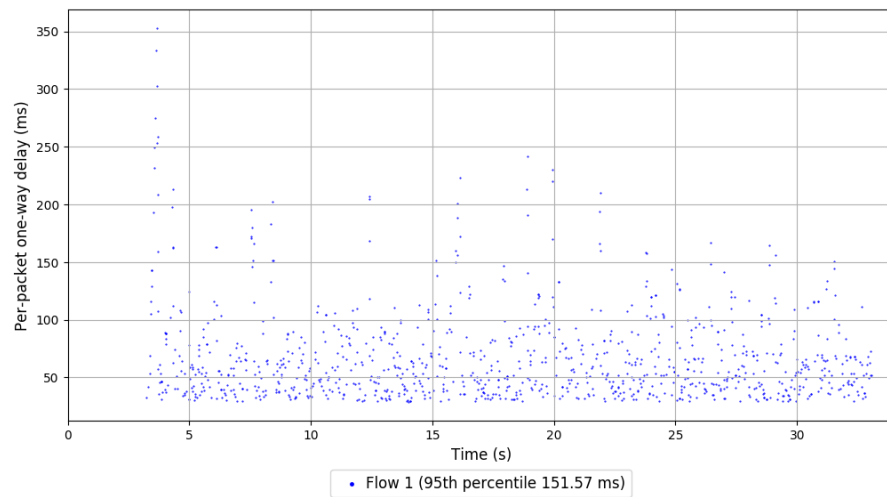
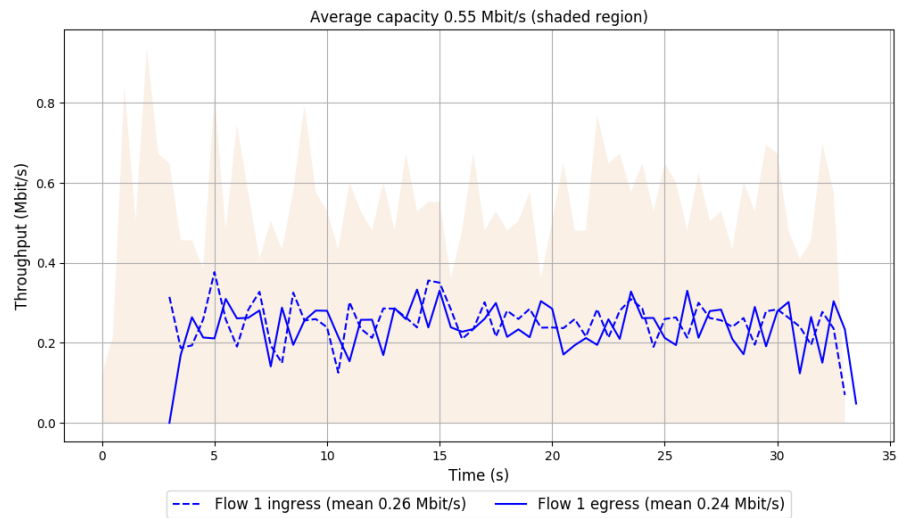
-- Flow 1:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 151.569 ms

Loss rate: 5.10%

Run 3: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2020-04-16 07:00:38

End at: 2020-04-16 07:01:08

Below is generated by plot.py at 2020-04-16 07:39:20

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.51 Mbit/s (92.7% utilization)

95th percentile per-packet one-way delay: 308.222 ms

Loss rate: 64.13%

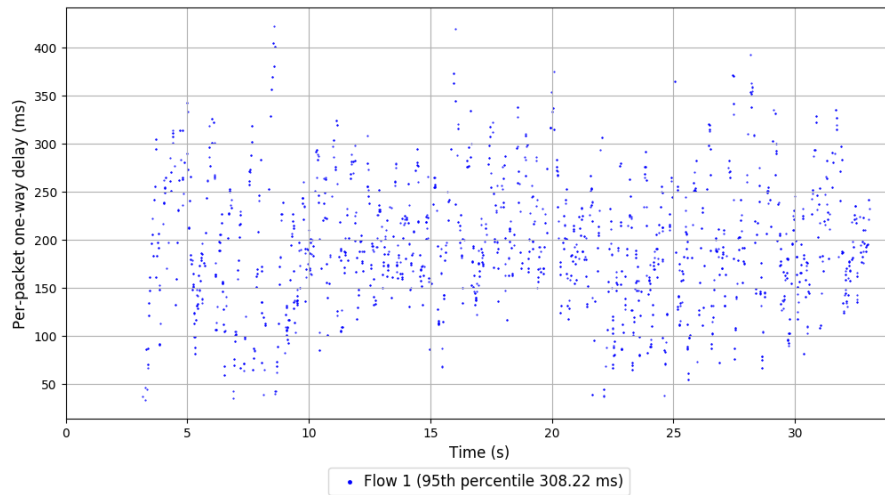
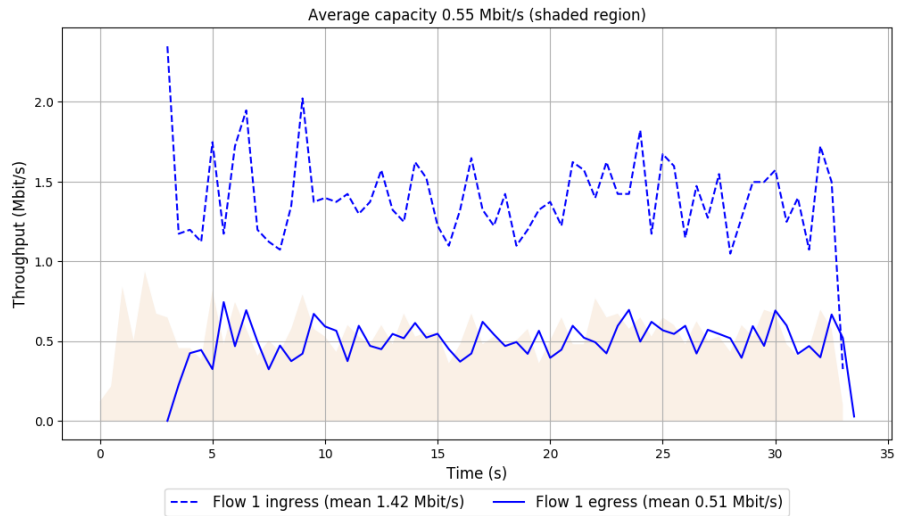
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 308.222 ms

Loss rate: 64.13%

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



Run 2: Statistics of TaoVA-100x

Start at: 2020-04-16 07:14:32

End at: 2020-04-16 07:15:02

Below is generated by plot.py at 2020-04-16 07:39:21

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (93.5% utilization)

95th percentile per-packet one-way delay: 312.257 ms

Loss rate: 64.60%

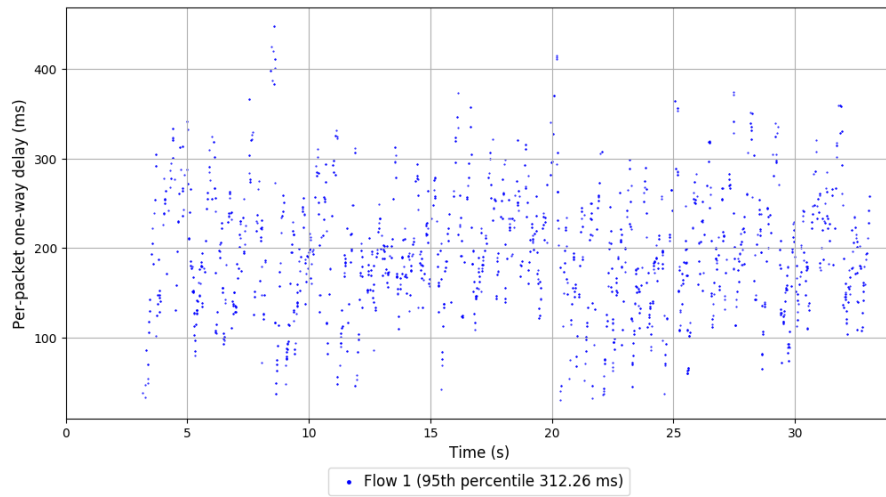
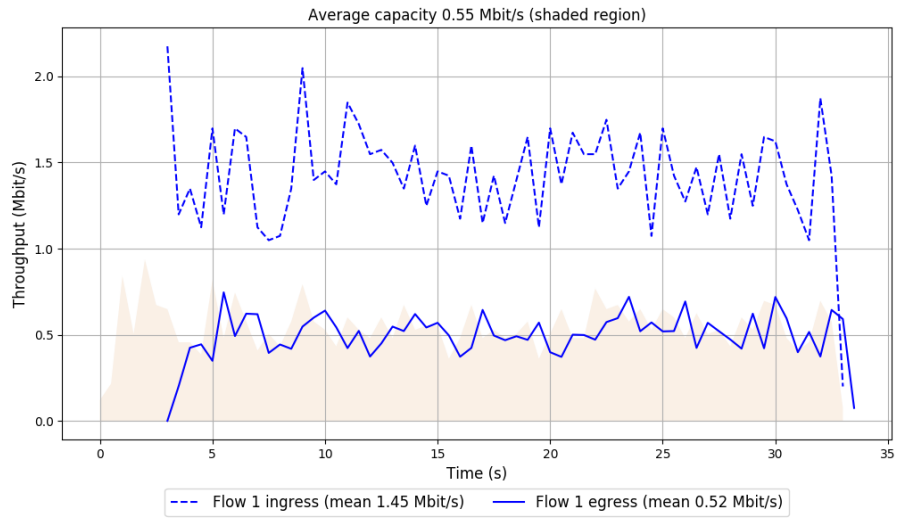
-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 312.257 ms

Loss rate: 64.60%

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



Run 3: Statistics of TaoVA-100x

Start at: 2020-04-16 07:28:27

End at: 2020-04-16 07:28:57

Below is generated by plot.py at 2020-04-16 07:39:22

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.46 Mbit/s (84.4% utilization)

95th percentile per-packet one-way delay: 303.181 ms

Loss rate: 66.05%

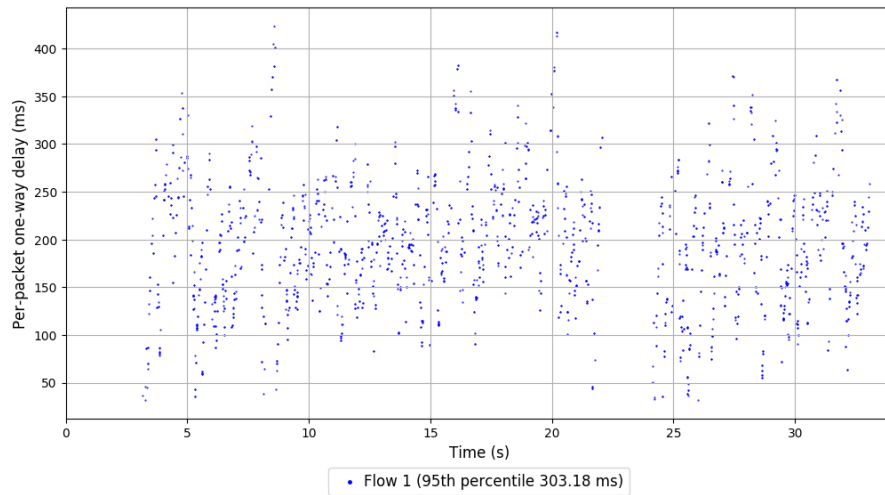
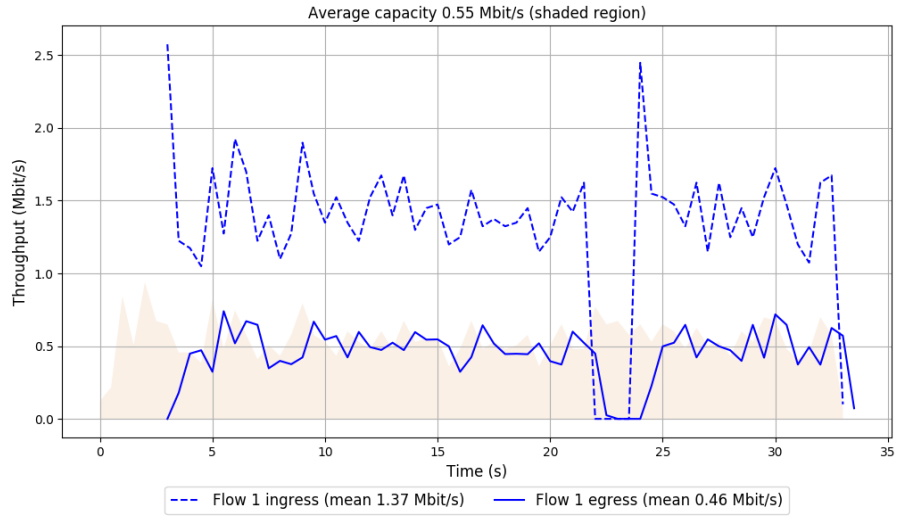
-- Flow 1:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 303.181 ms

Loss rate: 66.05%

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



Run 1: Statistics of TCP Vegas

Start at: 2020-04-16 07:03:32

End at: 2020-04-16 07:04:02

Below is generated by plot.py at 2020-04-16 07:39:22

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.31 Mbit/s (57.0% utilization)

95th percentile per-packet one-way delay: 153.136 ms

Loss rate: 6.57%

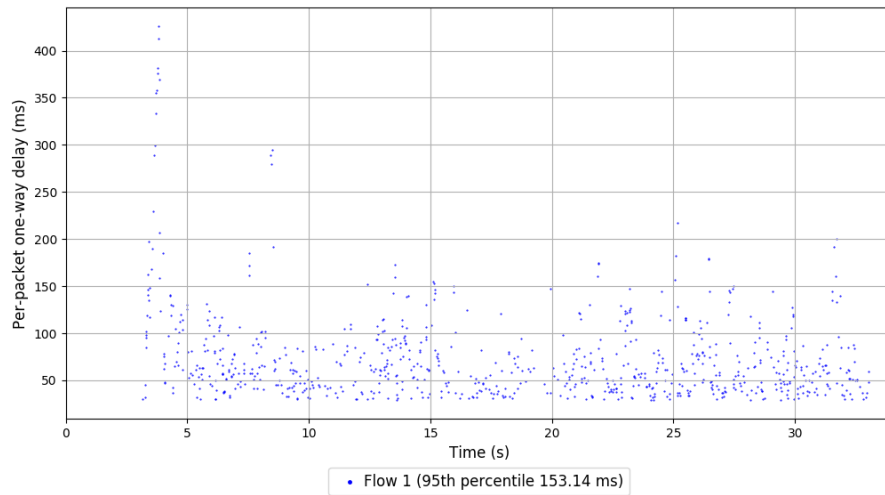
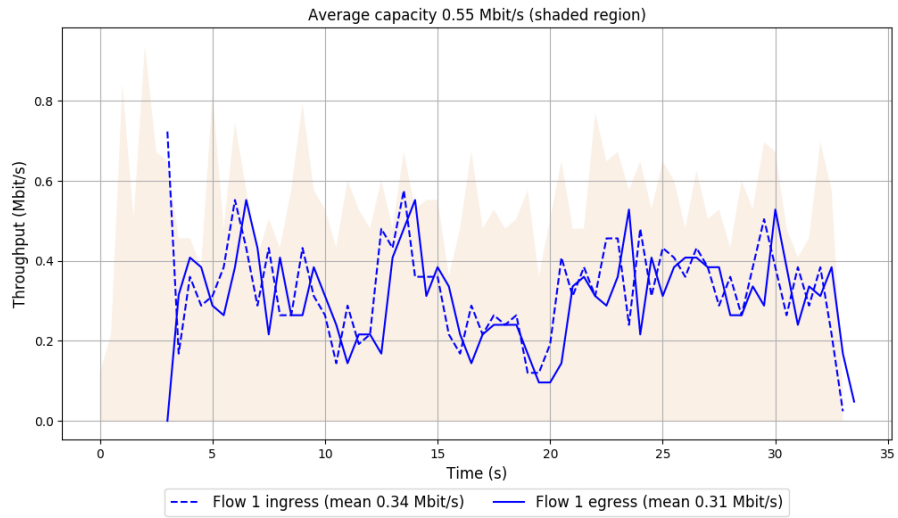
-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 153.136 ms

Loss rate: 6.57%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2020-04-16 07:17:26

End at: 2020-04-16 07:17:56

Below is generated by plot.py at 2020-04-16 07:39:22

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.33 Mbit/s (59.0% utilization)

95th percentile per-packet one-way delay: 175.434 ms

Loss rate: 6.03%

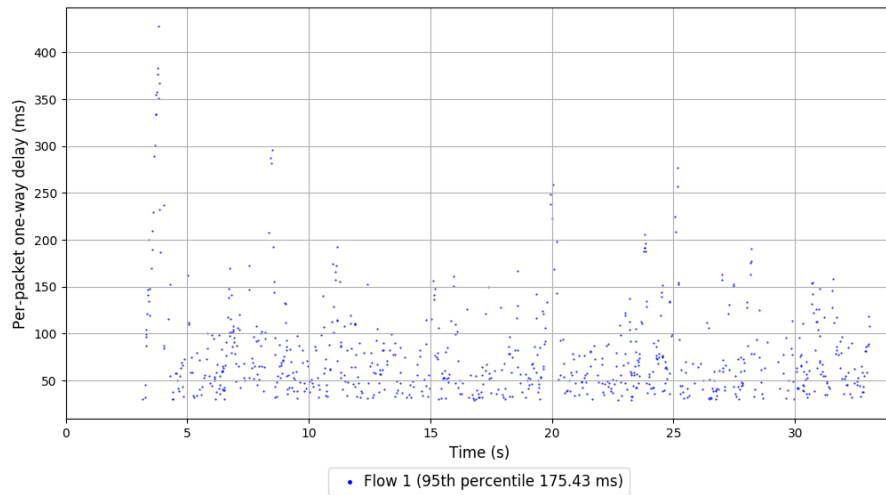
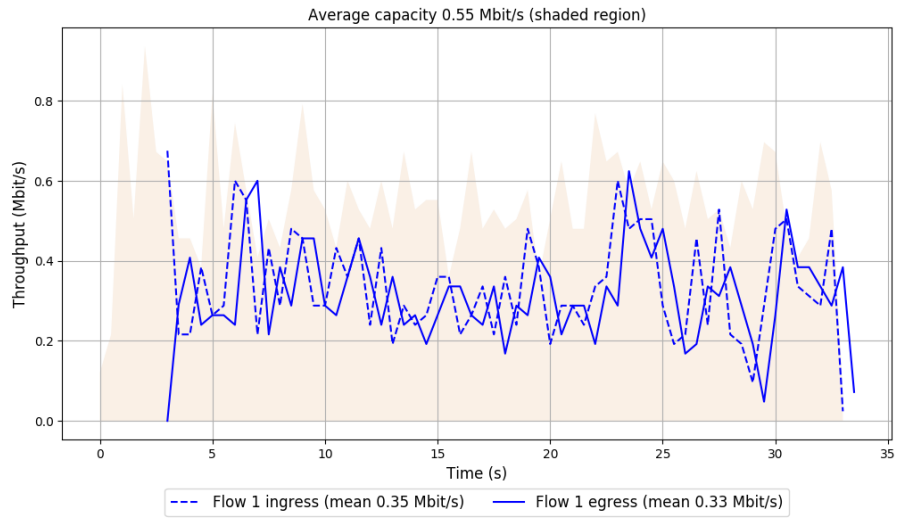
-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 175.434 ms

Loss rate: 6.03%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2020-04-16 07:31:22

End at: 2020-04-16 07:31:52

Below is generated by plot.py at 2020-04-16 07:39:22

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.56 Mbit/s

Average throughput: 0.33 Mbit/s (60.0% utilization)

95th percentile per-packet one-way delay: 226.534 ms

Loss rate: 6.73%

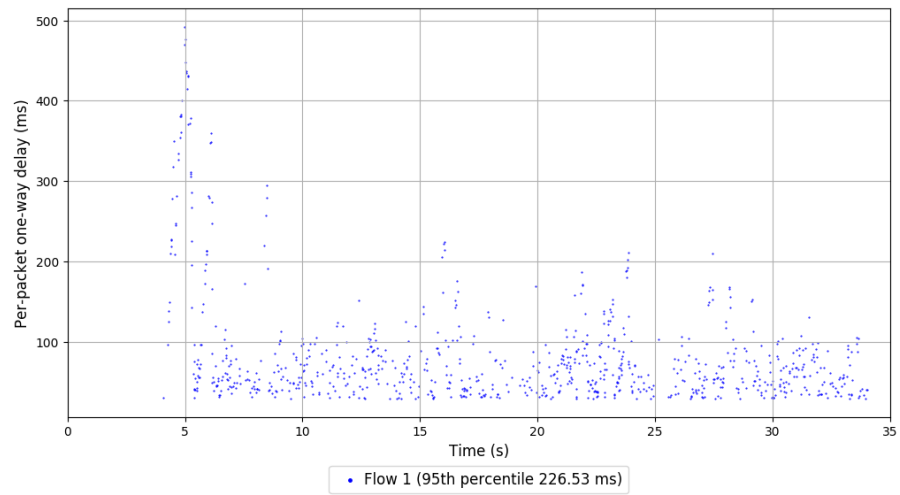
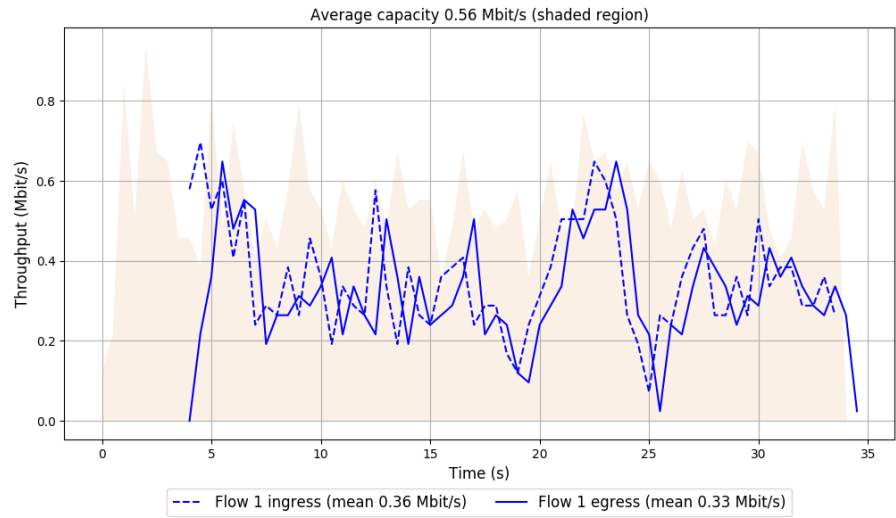
-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 226.534 ms

Loss rate: 6.73%

Run 3: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2020-04-16 07:08:10

End at: 2020-04-16 07:08:40

Below is generated by plot.py at 2020-04-16 07:39:23

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.45 Mbit/s (81.6% utilization)

95th percentile per-packet one-way delay: 414.039 ms

Loss rate: 20.99%

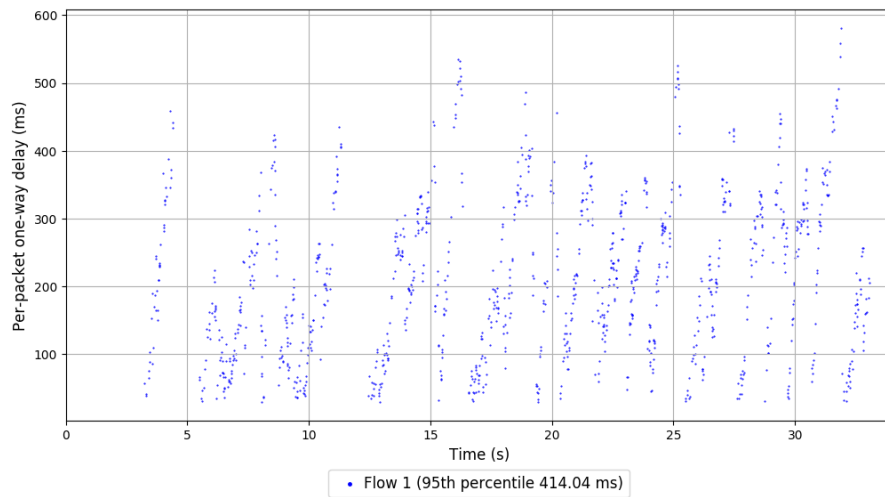
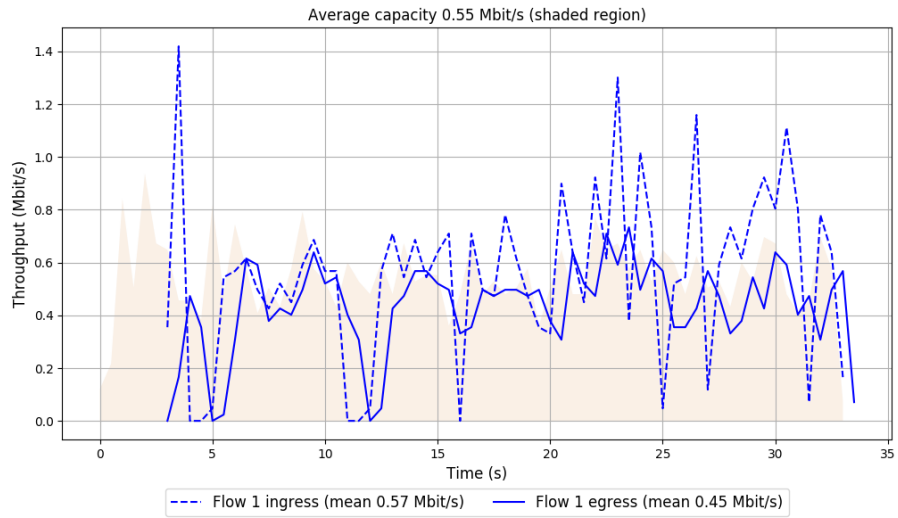
-- Flow 1:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 414.039 ms

Loss rate: 20.99%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2020-04-16 07:22:04

End at: 2020-04-16 07:22:34

Below is generated by plot.py at 2020-04-16 07:39:24

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.49 Mbit/s (88.9% utilization)

95th percentile per-packet one-way delay: 436.831 ms

Loss rate: 18.33%

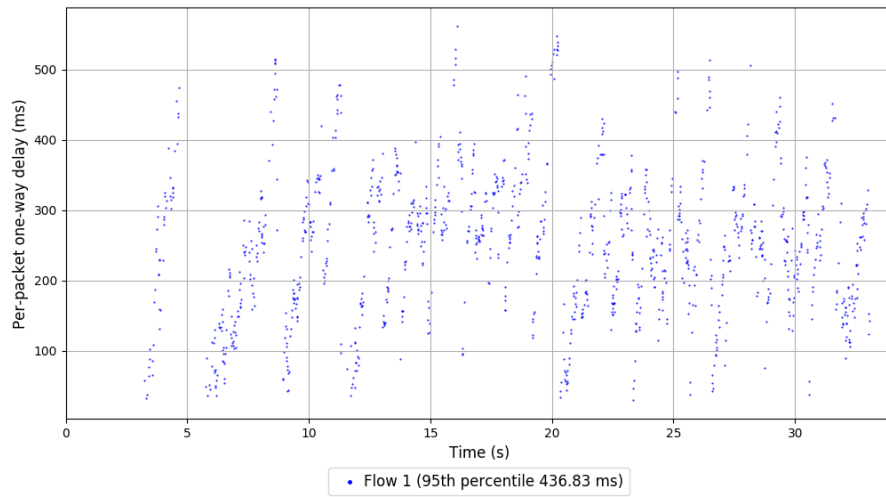
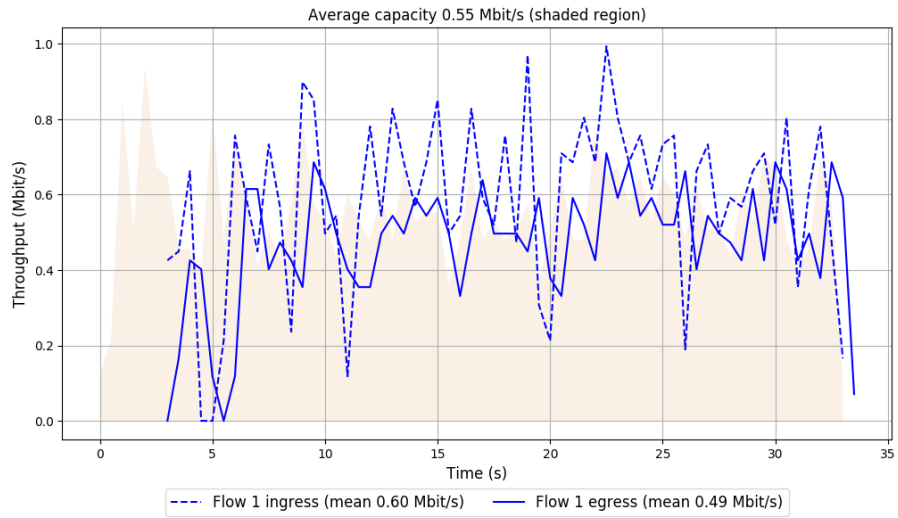
-- Flow 1:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 436.831 ms

Loss rate: 18.33%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2020-04-16 07:36:00

End at: 2020-04-16 07:36:30

Below is generated by plot.py at 2020-04-16 07:39:26

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.47 Mbit/s (85.5% utilization)

95th percentile per-packet one-way delay: 421.041 ms

Loss rate: 29.20%

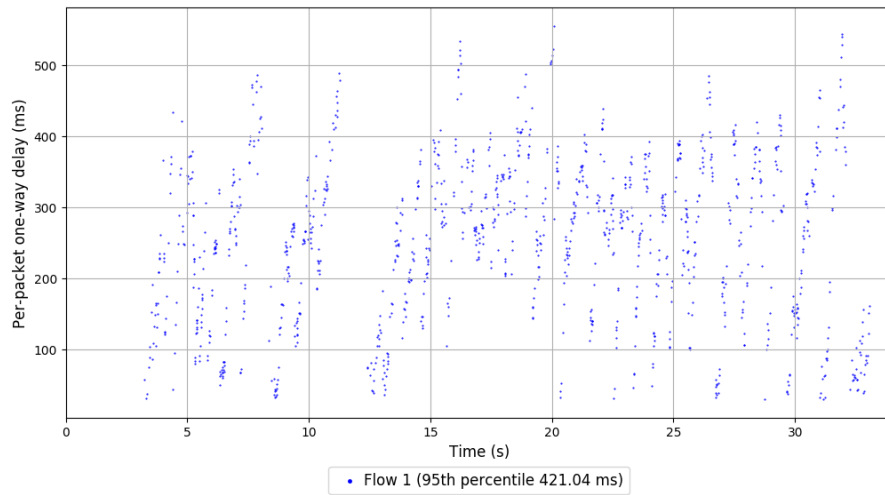
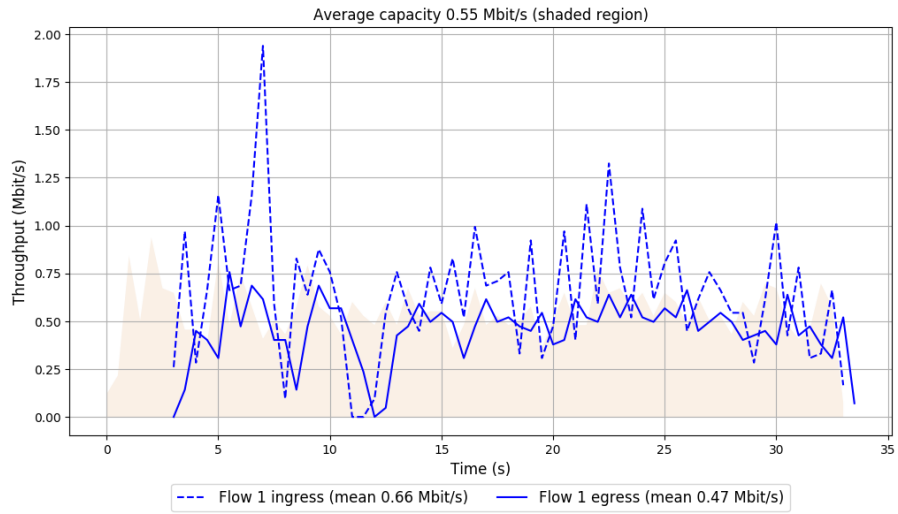
-- Flow 1:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 421.041 ms

Loss rate: 29.20%

Run 3: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2020-04-16 07:02:57

End at: 2020-04-16 07:03:27

Below is generated by plot.py at 2020-04-16 07:39:27

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.3% utilization)

95th percentile per-packet one-way delay: 464.259 ms

Loss rate: 61.48%

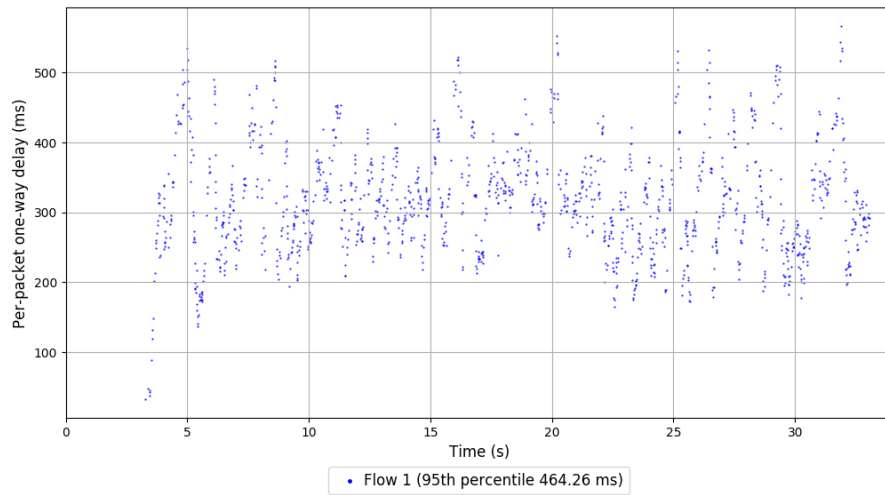
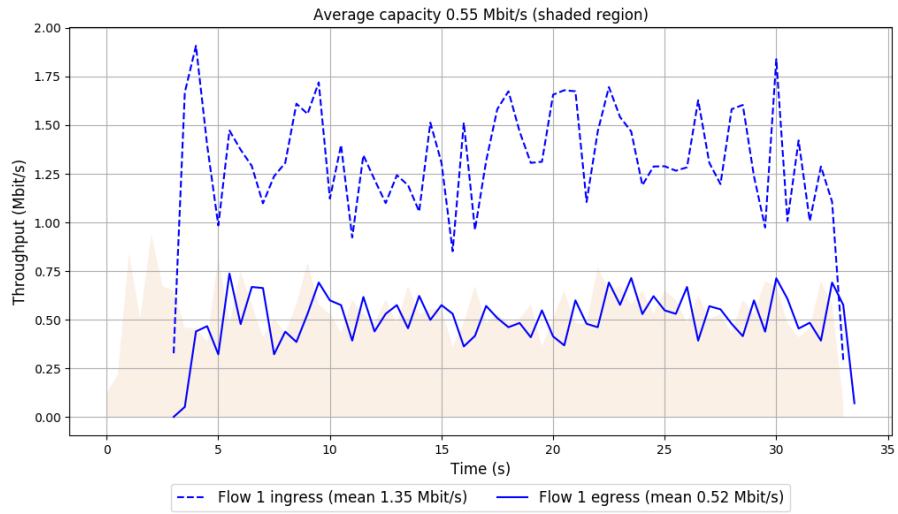
-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 464.259 ms

Loss rate: 61.48%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2020-04-16 07:16:51

End at: 2020-04-16 07:17:21

Below is generated by plot.py at 2020-04-16 07:39:27

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.7% utilization)

95th percentile per-packet one-way delay: 461.456 ms

Loss rate: 60.82%

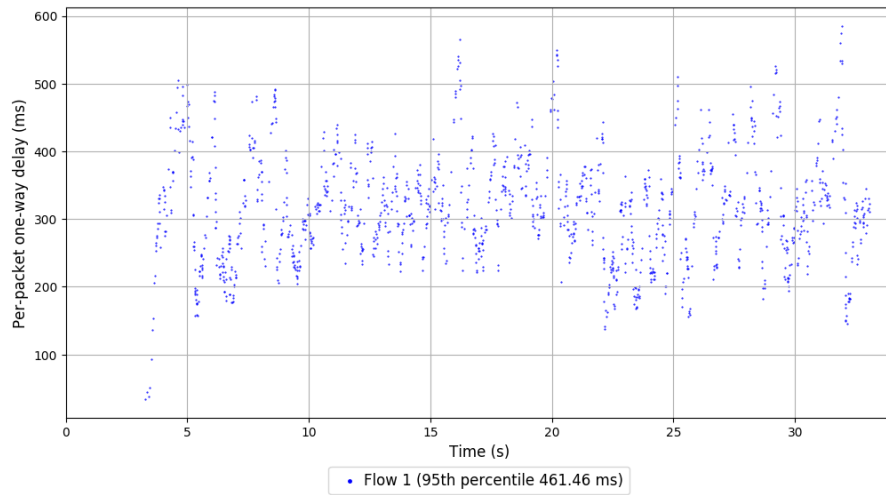
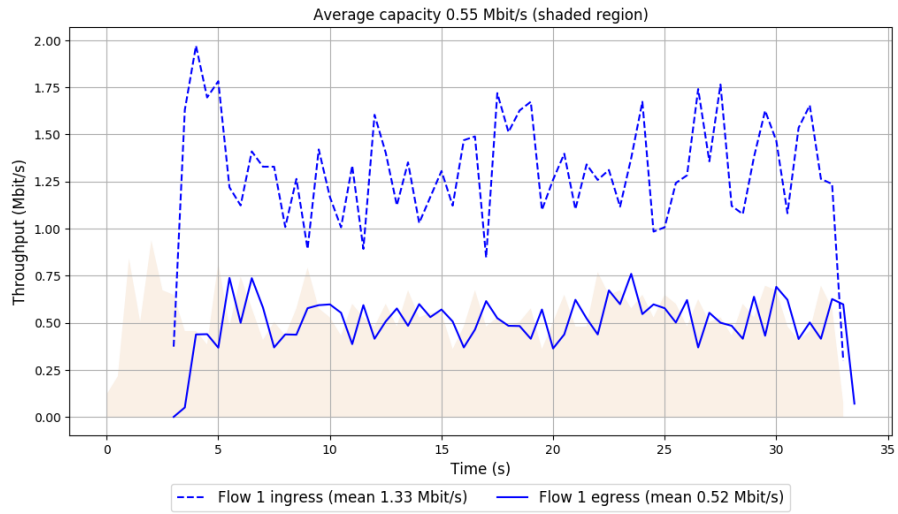
-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 461.456 ms

Loss rate: 60.82%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2020-04-16 07:30:46

End at: 2020-04-16 07:31:16

Below is generated by plot.py at 2020-04-16 07:39:28

Datalink statistics

-- Total of 1 flow:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.2% utilization)

95th percentile per-packet one-way delay: 460.526 ms

Loss rate: 60.57%

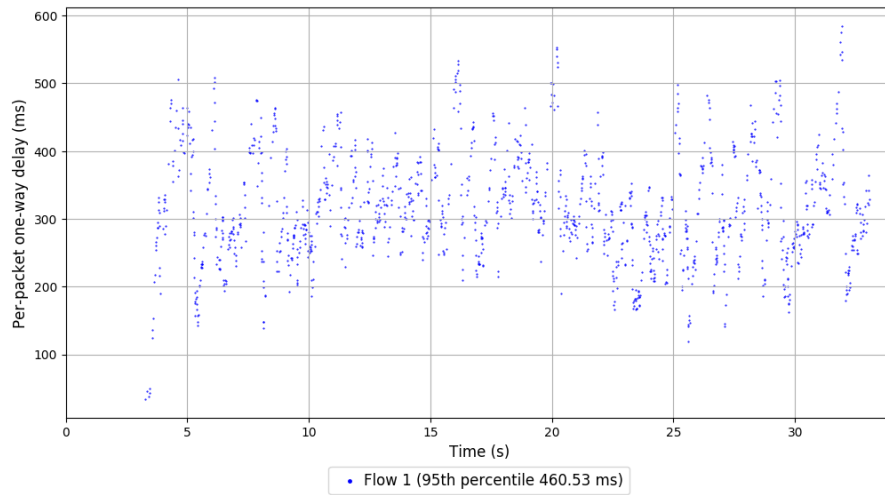
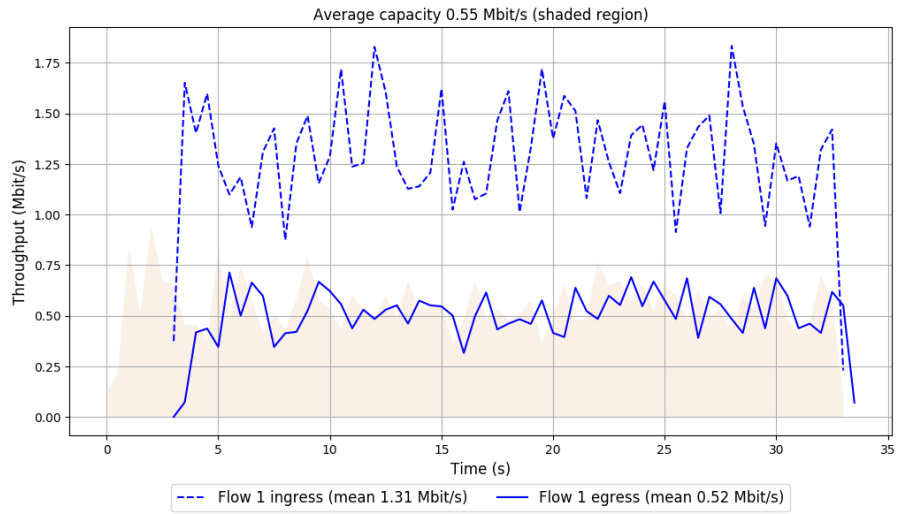
-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 460.526 ms

Loss rate: 60.57%

Run 3: Report of PCC-Vivace — Data Link

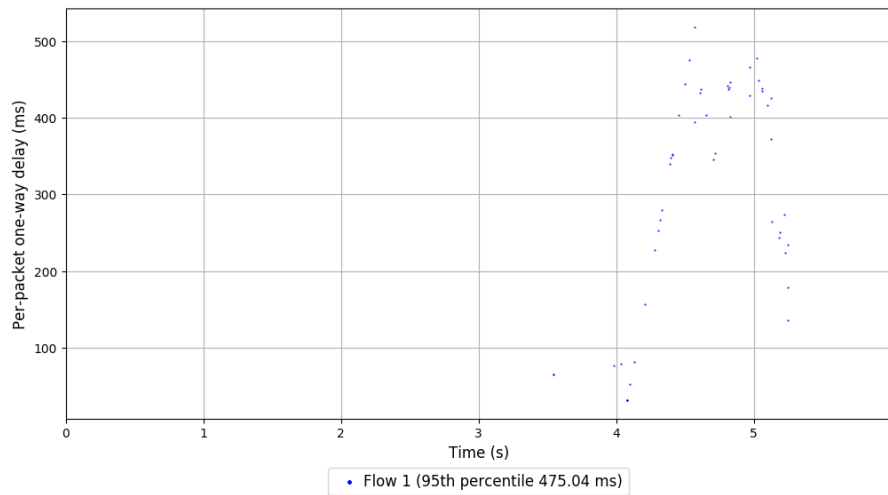
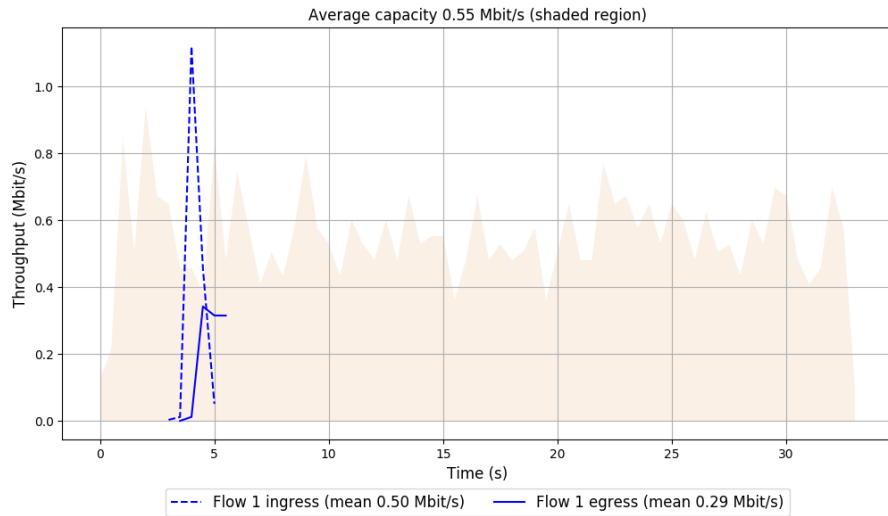


Run 1: Statistics of WebRTC media

Start at: 2020-04-16 07:07:36

End at: 2020-04-16 07:08:06

Run 1: Report of WebRTC media — Data Link

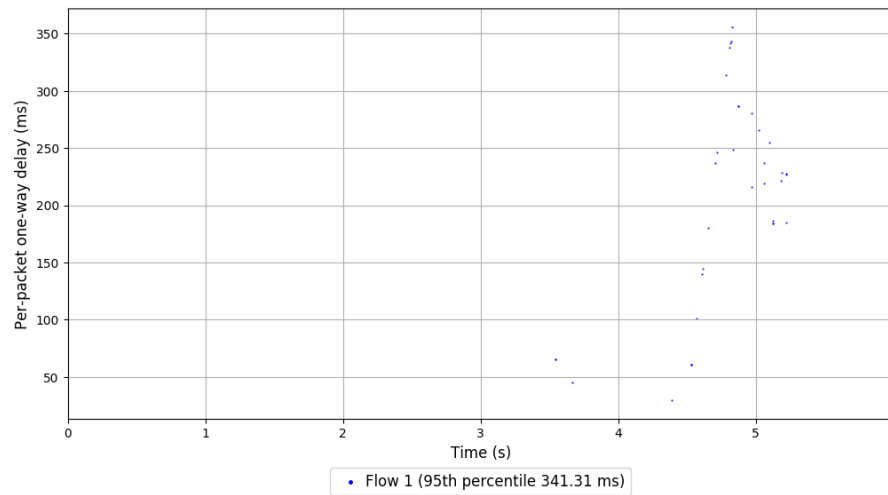
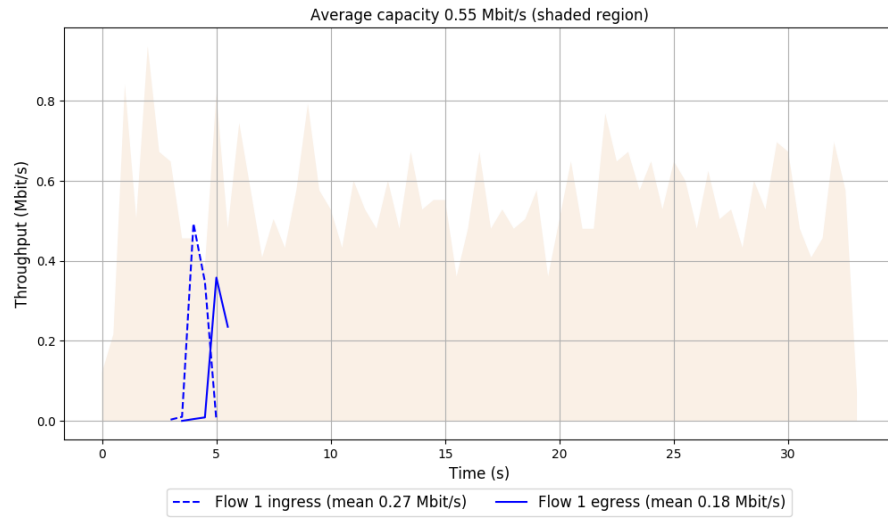


Run 2: Statistics of WebRTC media

Start at: 2020-04-16 07:21:30

End at: 2020-04-16 07:22:00

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2020-04-16 07:35:25

End at: 2020-04-16 07:35:55

Run 3: Report of WebRTC media — Data Link

