

Pantheon Report

Generated at 2020-04-16 09:02:00 (UTC).

Tested in mahimahi: mm-delay 10 mm-link 108mbps.trace 108mbps.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	1.35	11.83	18.65
Copa	3	0.01	11.87	90.15
TCP Cubic	3	1.30	11.91	8.47
FillP	3	1.04	11.85	48.72
FillP-Sheep	3	0.40	11.77	37.64
Indigo	3	1.03	12.35	95.22
Indigo-MusesC3	3	1.03	11.67	16.96
Indigo-MusesC5	3	1.04	11.62	17.33
Indigo-MusesD	3	1.03	11.67	37.20
Indigo-MusesT	3	1.06	11.66	22.84
LEDBAT	3	0.19	11.69	47.33
Muses_DecisionTree	3	0.19	11.67	33.64
Muses_DecisionTreeH0	3	0.23	11.82	57.88
Muses_DecisionTreeR0	3	0.19	11.71	33.58
PCC-Allegro	3	5.42	12.04	3.40
PCC-Expr	2	7.97	11.25	98.48
QUIC Cubic	3	4.00	12.11	8.11
SCReAM	3	0.21	11.70	0.04
Sprout	3	0.48	11.62	8.63
TaoVA-100x	3	0.01	11.72	50.85
TCP Vegas	3	1.10	11.80	9.92
Verus	3	2.81	12.12	98.21
PCC-Vivace	3	6.97	12.01	1.32
WebRTC media	0	N/A	N/A	N/A

Run 1: Statistics of TCP BBR

Start at: 2020-04-16 08:11:19

End at: 2020-04-16 08:11:49

Below is generated by plot.py at 2020-04-16 08:55:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 1.55 Mbit/s (1.4% utilization)

95th percentile per-packet one-way delay: 11.869 ms

Loss rate: 23.60%

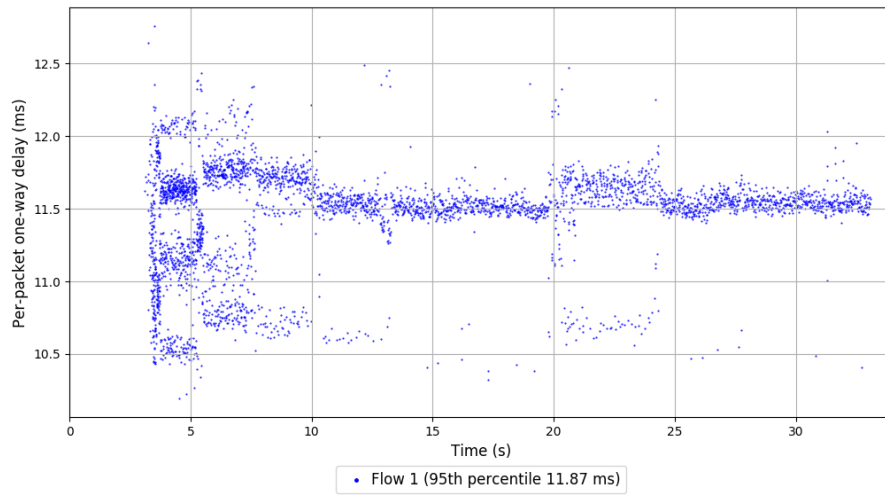
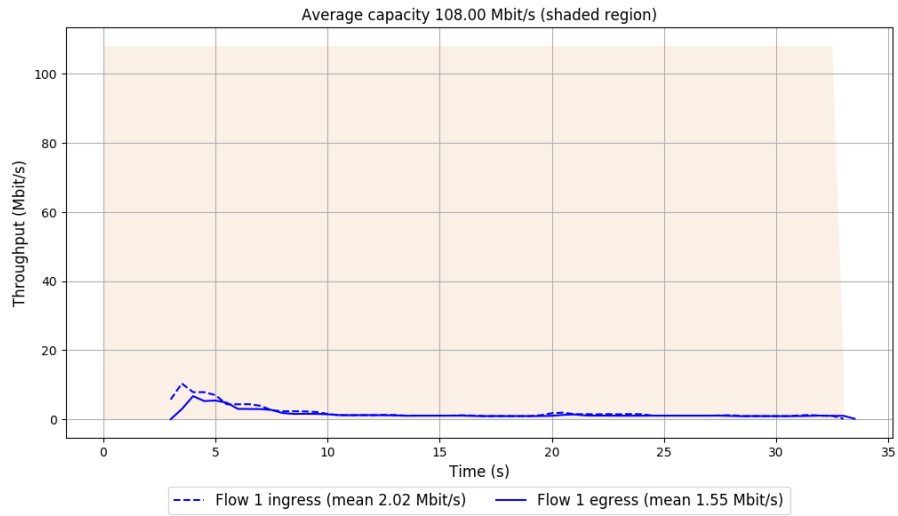
-- Flow 1:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 11.869 ms

Loss rate: 23.60%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2020-04-16 08:25:57

End at: 2020-04-16 08:26:27

Below is generated by plot.py at 2020-04-16 08:55:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 1.48 Mbit/s (1.4% utilization)

95th percentile per-packet one-way delay: 11.898 ms

Loss rate: 21.57%

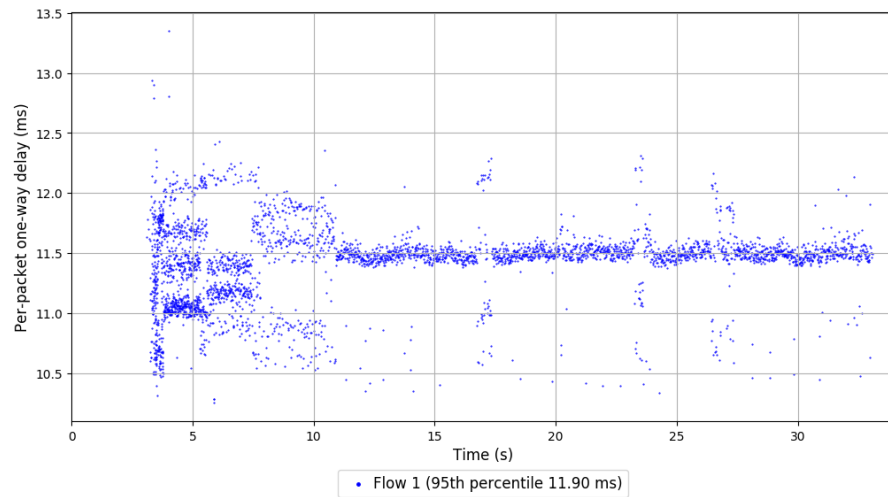
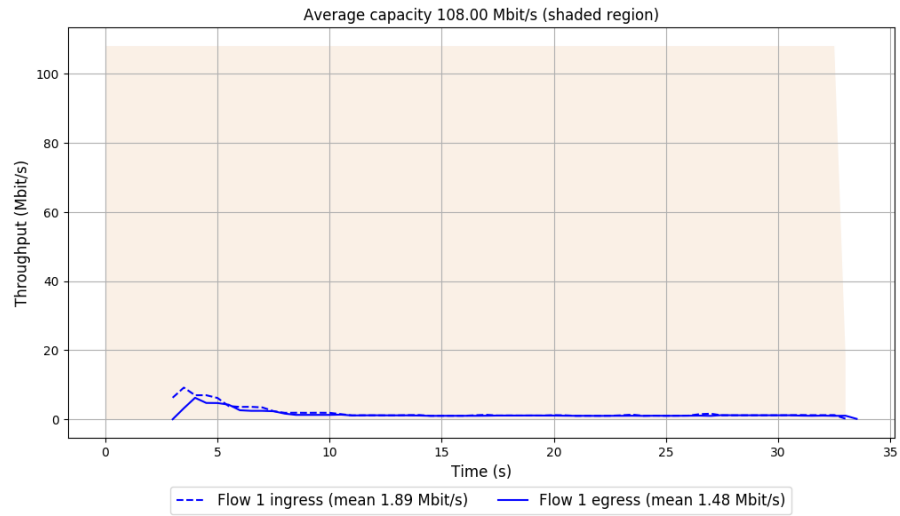
-- Flow 1:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 11.898 ms

Loss rate: 21.57%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2020-04-16 08:40:45

End at: 2020-04-16 08:41:15

Below is generated by plot.py at 2020-04-16 08:55:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 1.03 Mbit/s (1.0% utilization)

95th percentile per-packet one-way delay: 11.723 ms

Loss rate: 10.78%

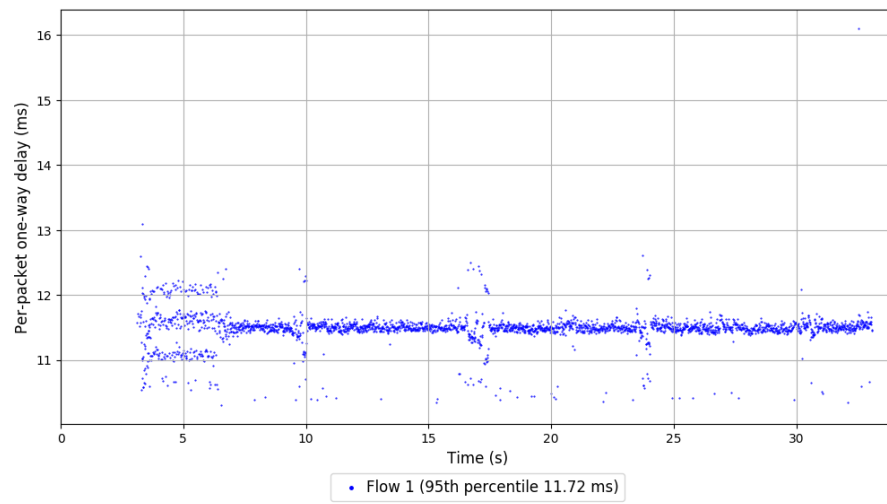
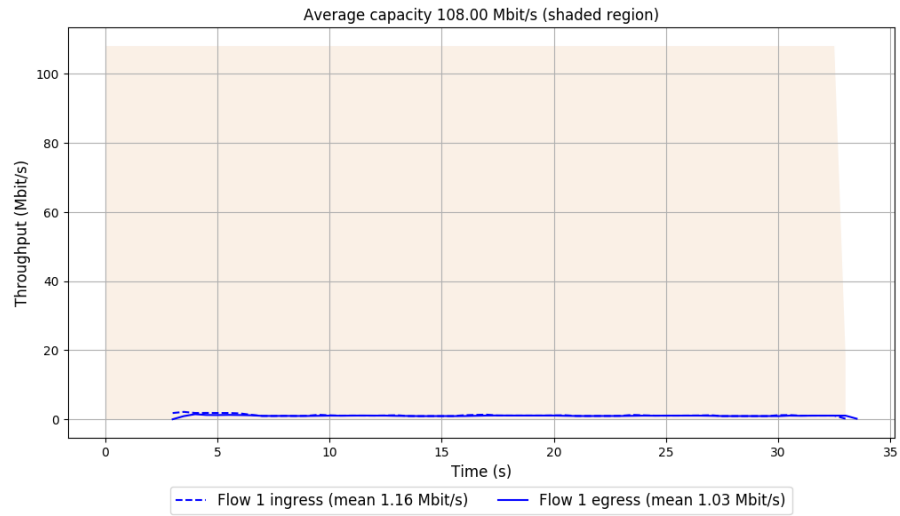
-- Flow 1:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 11.723 ms

Loss rate: 10.78%

Run 3: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2020-04-16 08:19:53

End at: 2020-04-16 08:20:23

Below is generated by plot.py at 2020-04-16 08:55:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

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

95th percentile per-packet one-way delay: 11.888 ms

Loss rate: 90.36%

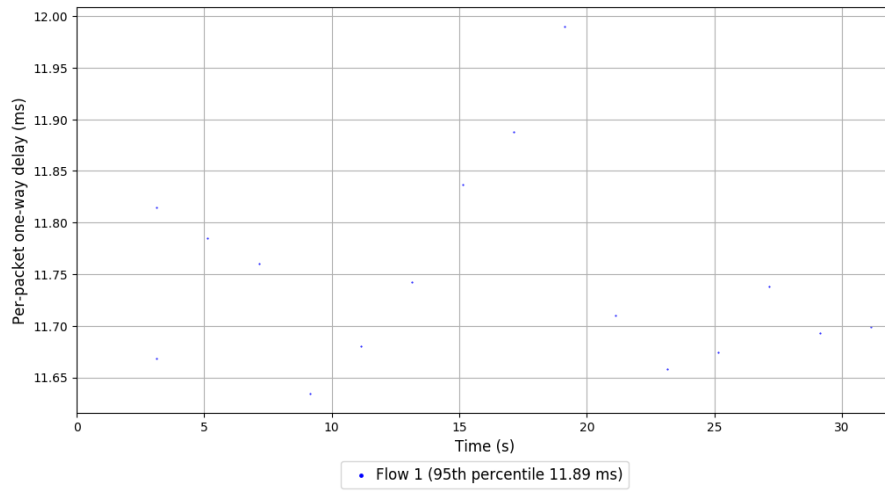
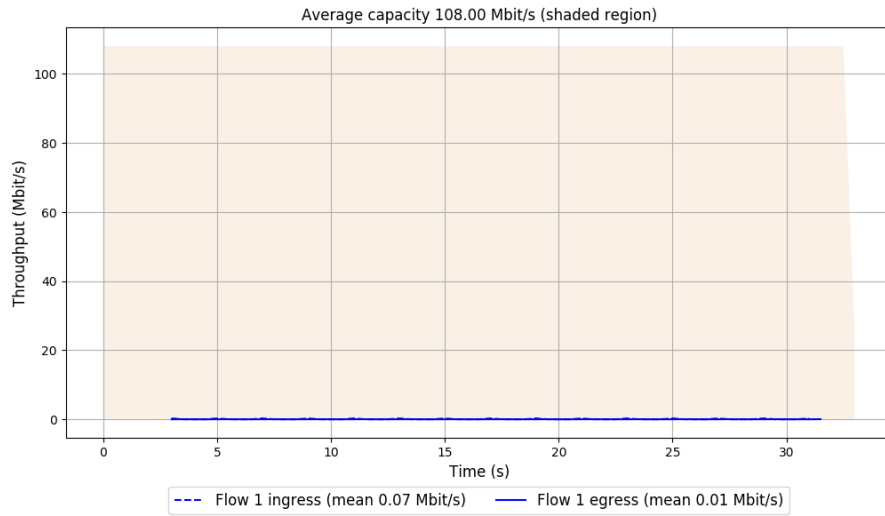
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 11.888 ms

Loss rate: 90.36%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2020-04-16 08:34:40

End at: 2020-04-16 08:35:10

Below is generated by plot.py at 2020-04-16 08:55:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

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

95th percentile per-packet one-way delay: 11.837 ms

Loss rate: 89.72%

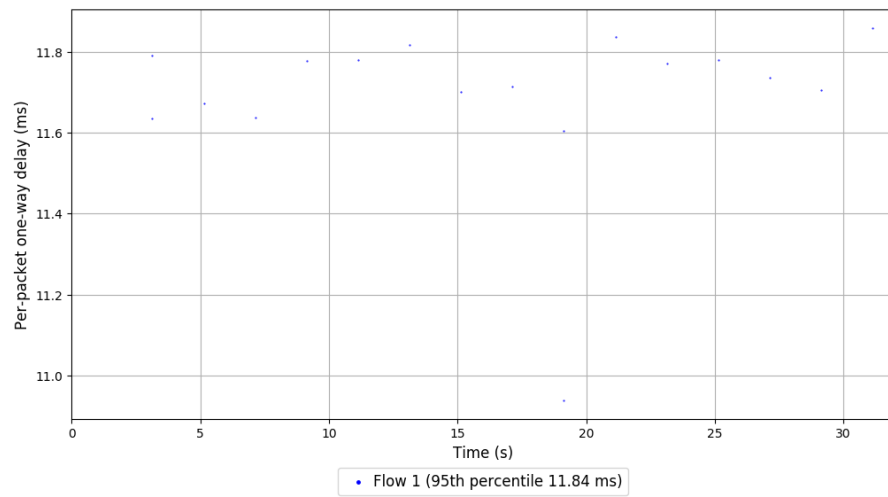
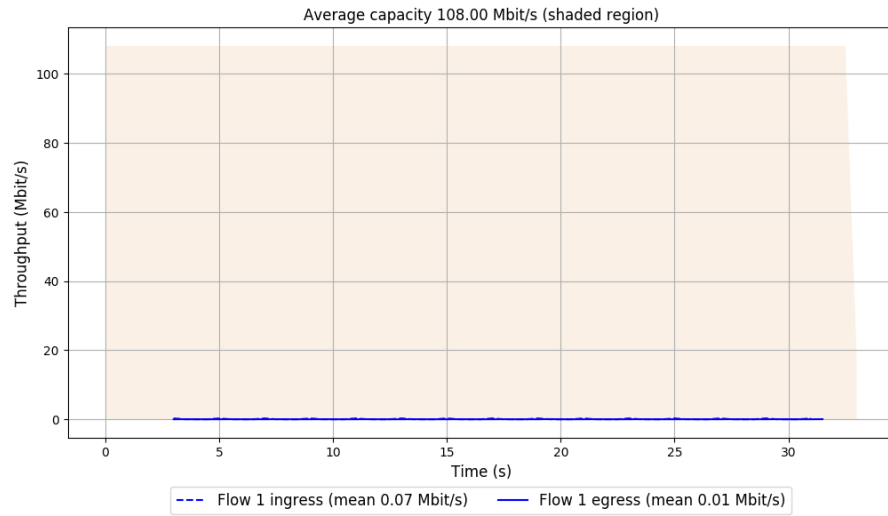
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 11.837 ms

Loss rate: 89.72%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2020-04-16 08:49:27

End at: 2020-04-16 08:49:57

Below is generated by plot.py at 2020-04-16 08:55:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

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

95th percentile per-packet one-way delay: 11.873 ms

Loss rate: 90.36%

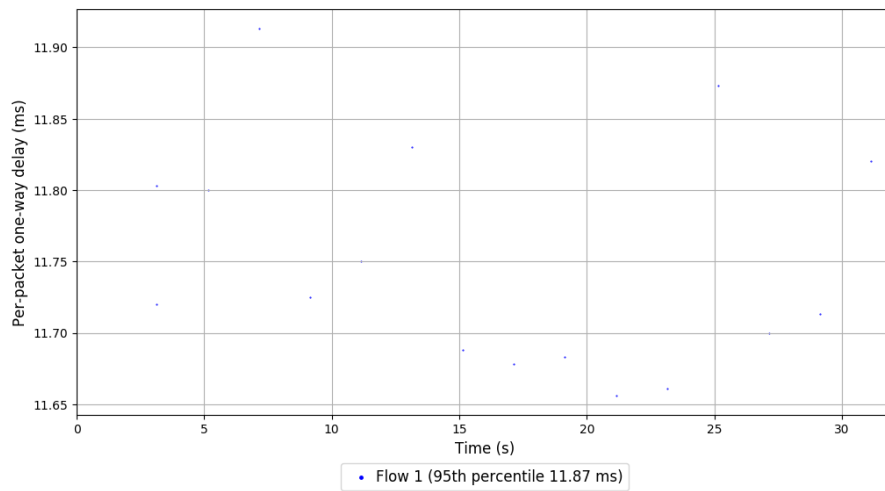
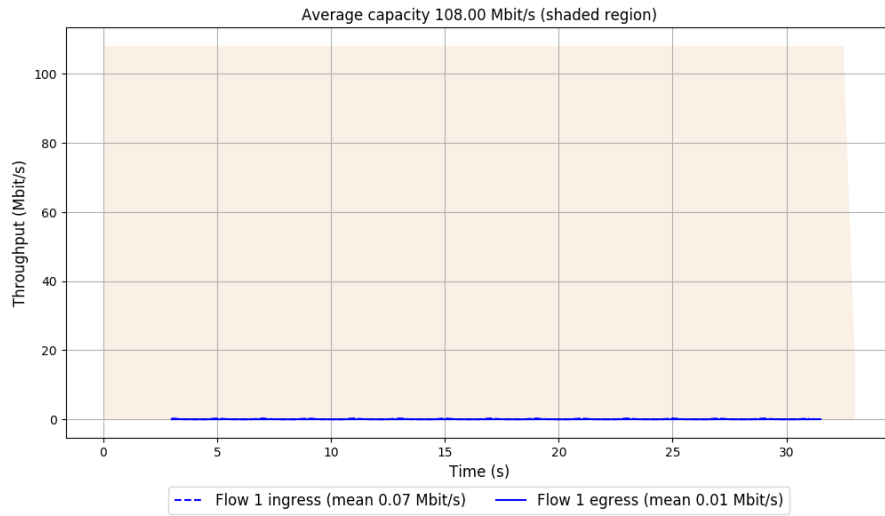
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 11.873 ms

Loss rate: 90.36%

Run 3: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2020-04-16 08:20:29

End at: 2020-04-16 08:20:59

Below is generated by plot.py at 2020-04-16 08:55:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 1.30 Mbit/s (1.2% utilization)

95th percentile per-packet one-way delay: 11.906 ms

Loss rate: 8.56%

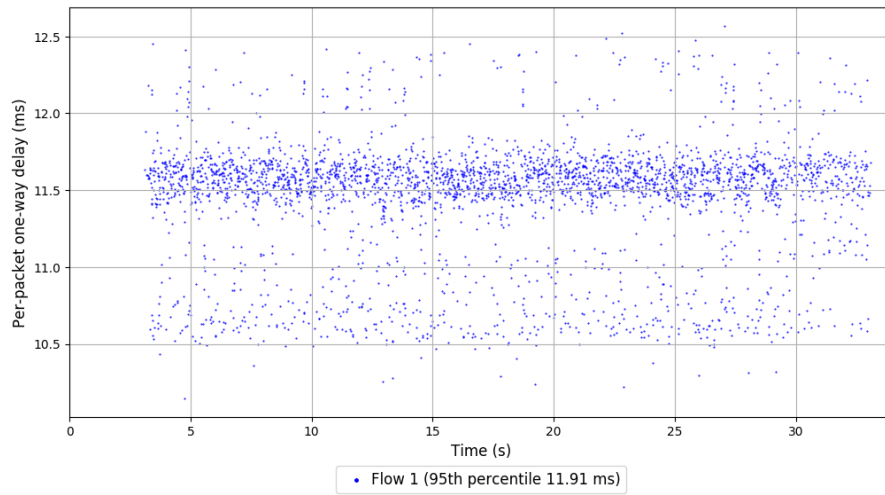
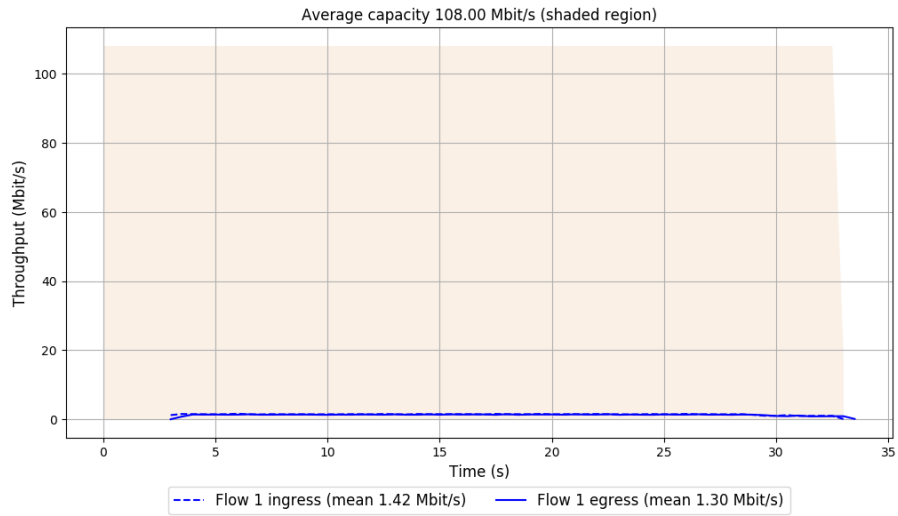
-- Flow 1:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 11.906 ms

Loss rate: 8.56%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2020-04-16 08:35:16

End at: 2020-04-16 08:35:46

Below is generated by plot.py at 2020-04-16 08:55:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 1.30 Mbit/s (1.2% utilization)

95th percentile per-packet one-way delay: 11.970 ms

Loss rate: 8.53%

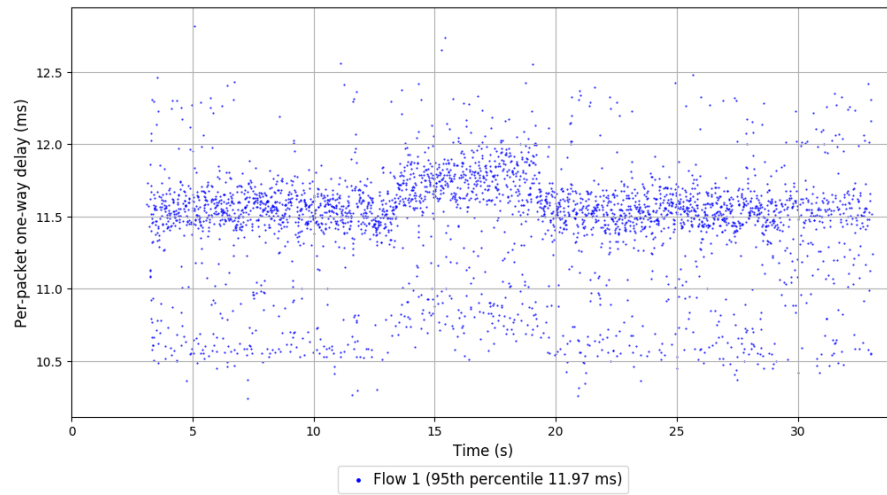
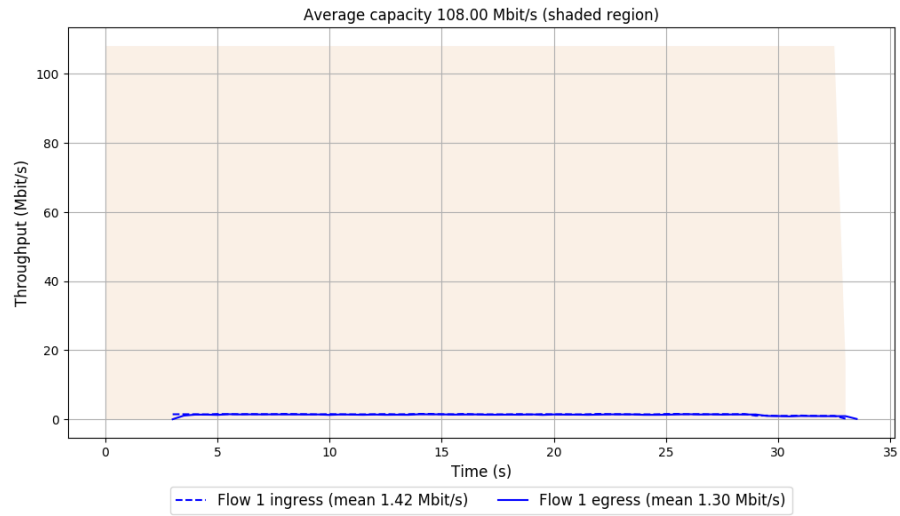
-- Flow 1:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 11.970 ms

Loss rate: 8.53%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2020-04-16 08:50:04

End at: 2020-04-16 08:50:34

Below is generated by plot.py at 2020-04-16 08:56:25

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 1.31 Mbit/s (1.2% utilization)

95th percentile per-packet one-way delay: 11.860 ms

Loss rate: 8.33%

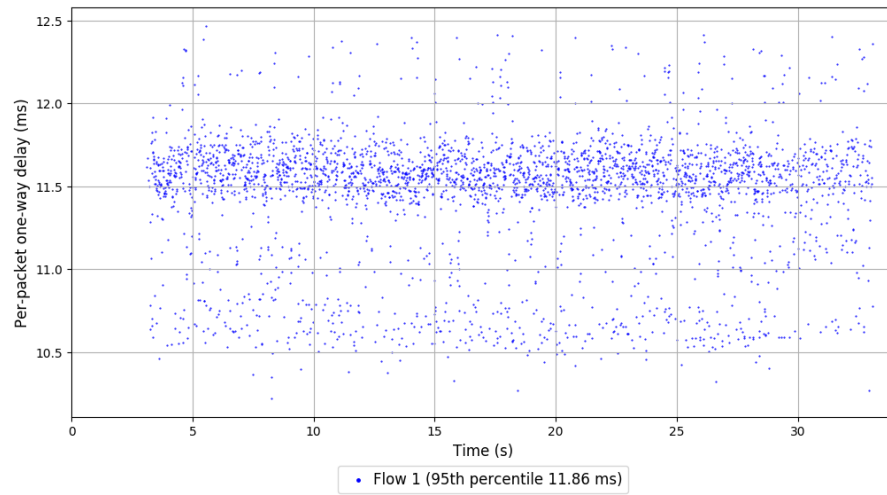
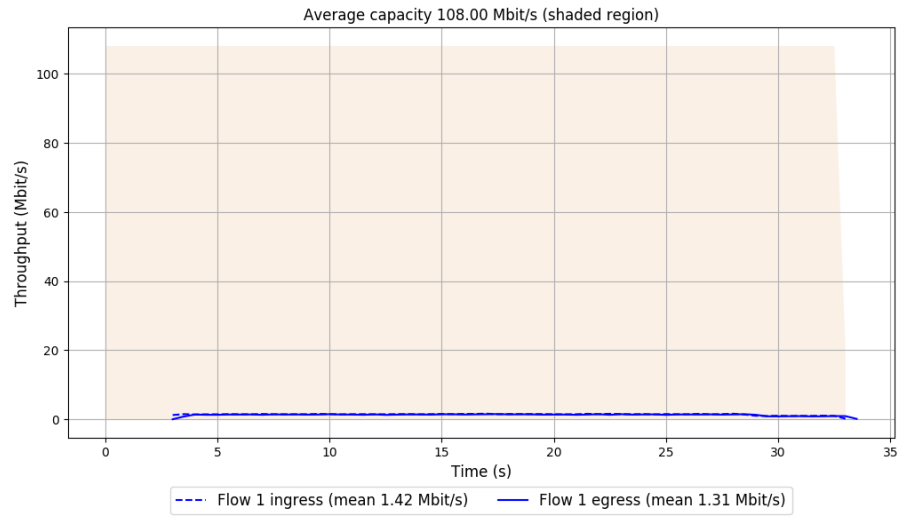
-- Flow 1:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 11.860 ms

Loss rate: 8.33%

Run 3: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2020-04-16 08:11:55

End at: 2020-04-16 08:12:25

Below is generated by plot.py at 2020-04-16 08:56:25

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 0.43 Mbit/s (0.4% utilization)

95th percentile per-packet one-way delay: 11.832 ms

Loss rate: 48.73%

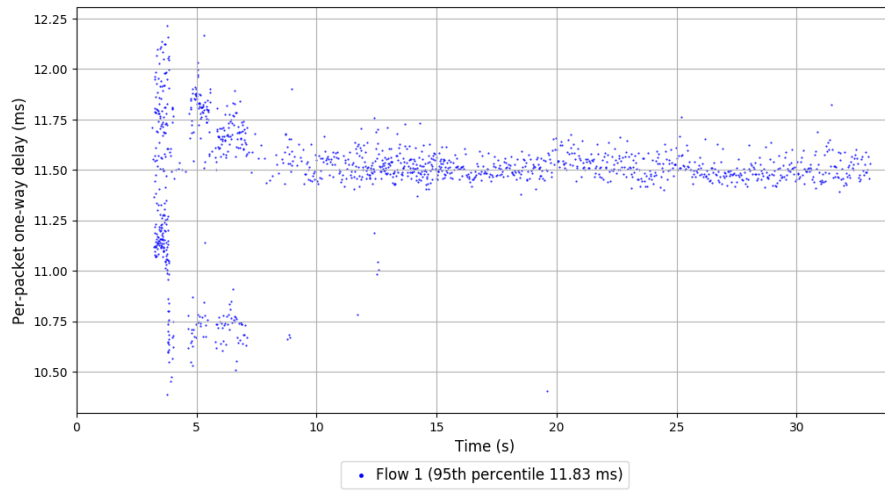
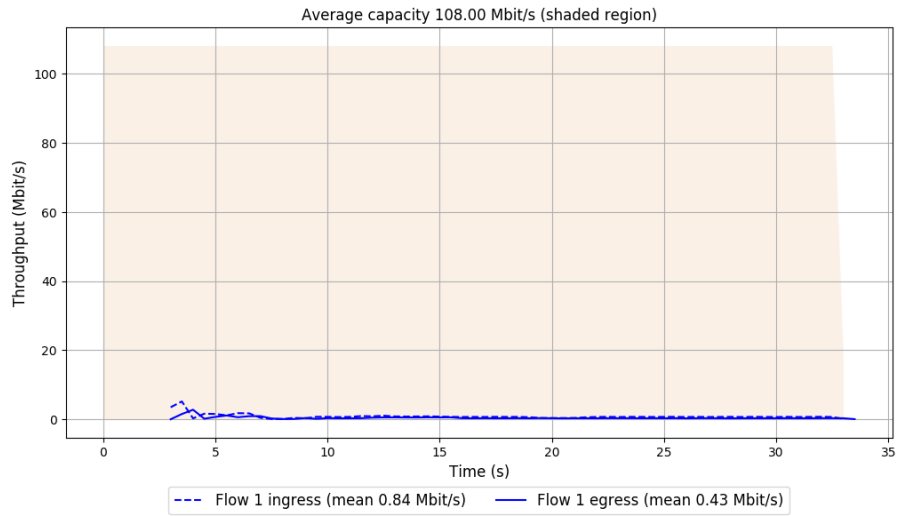
-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 11.832 ms

Loss rate: 48.73%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2020-04-16 08:26:34

End at: 2020-04-16 08:27:04

Below is generated by plot.py at 2020-04-16 08:56:30

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 1.20 Mbit/s (1.1% utilization)

95th percentile per-packet one-way delay: 11.969 ms

Loss rate: 50.99%

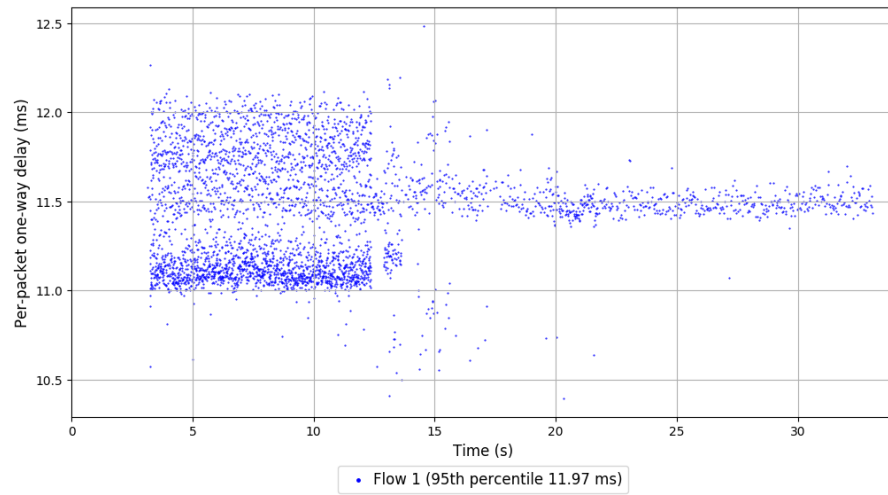
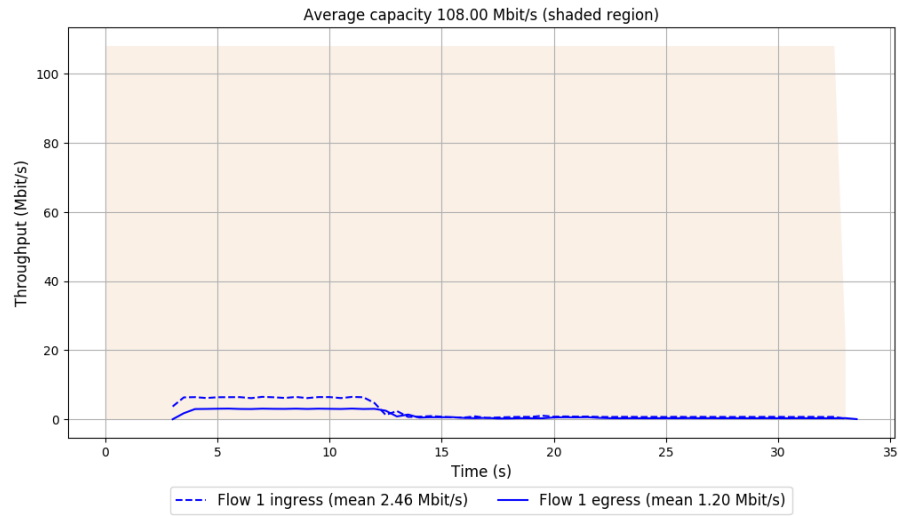
-- Flow 1:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 11.969 ms

Loss rate: 50.99%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2020-04-16 08:41:22

End at: 2020-04-16 08:41:52

Below is generated by plot.py at 2020-04-16 08:56:31

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 1.50 Mbit/s (1.4% utilization)

95th percentile per-packet one-way delay: 11.750 ms

Loss rate: 46.44%

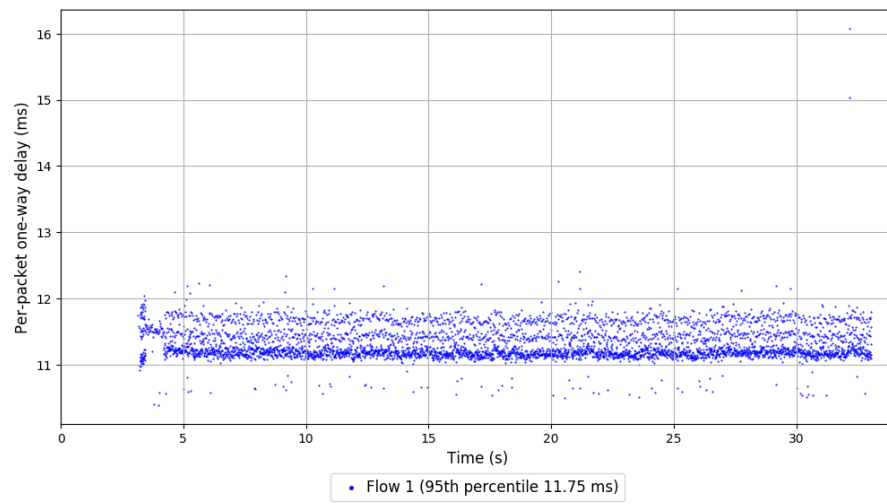
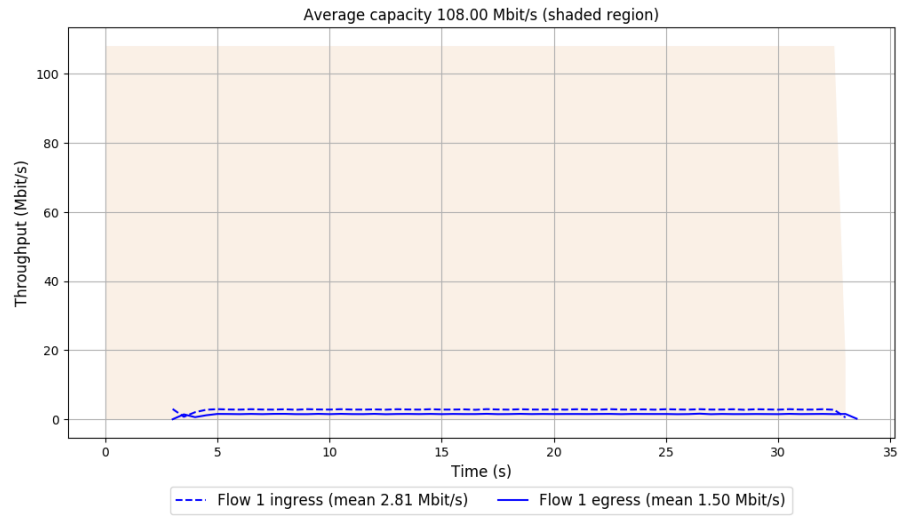
-- Flow 1:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 11.750 ms

Loss rate: 46.44%

Run 3: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2020-04-16 08:22:18

End at: 2020-04-16 08:22:48

Below is generated by plot.py at 2020-04-16 08:56:31

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 0.38 Mbit/s (0.3% utilization)

95th percentile per-packet one-way delay: 11.729 ms

Loss rate: 36.25%

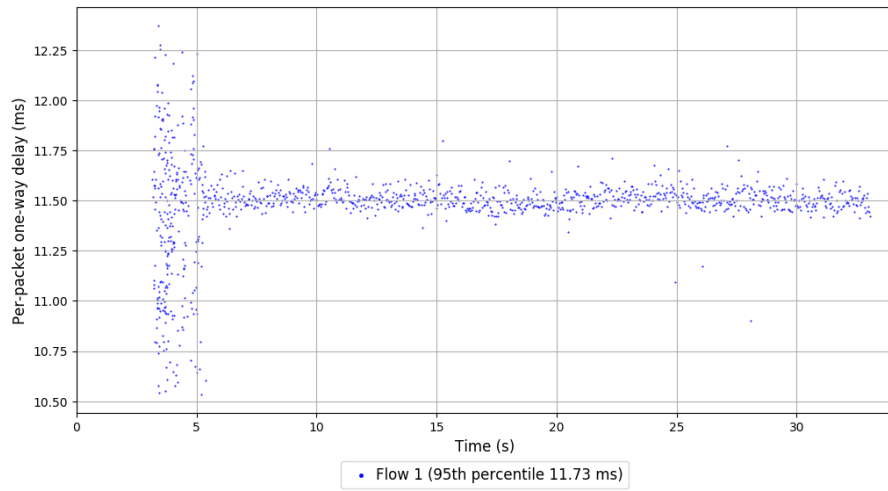
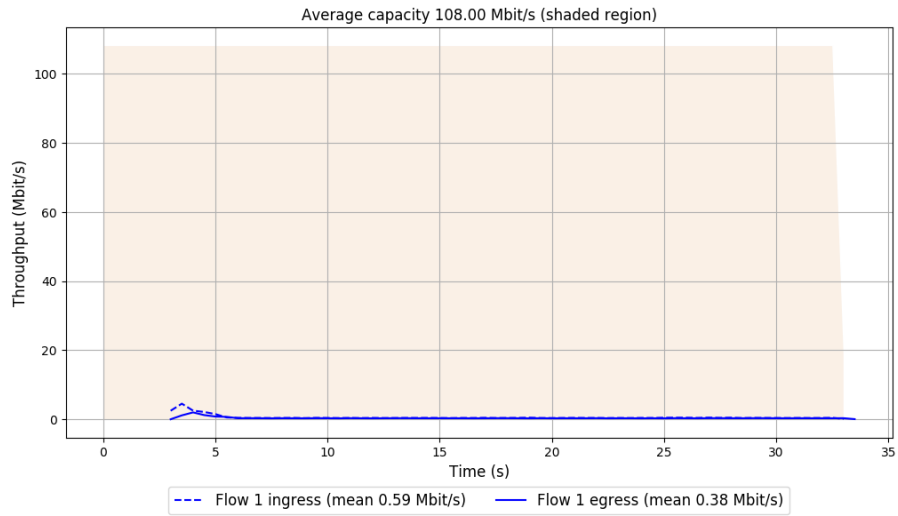
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 11.729 ms

Loss rate: 36.25%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2020-04-16 08:37:05

End at: 2020-04-16 08:37:35

Below is generated by plot.py at 2020-04-16 08:56:31

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 0.42 Mbit/s (0.4% utilization)

95th percentile per-packet one-way delay: 11.839 ms

Loss rate: 39.72%

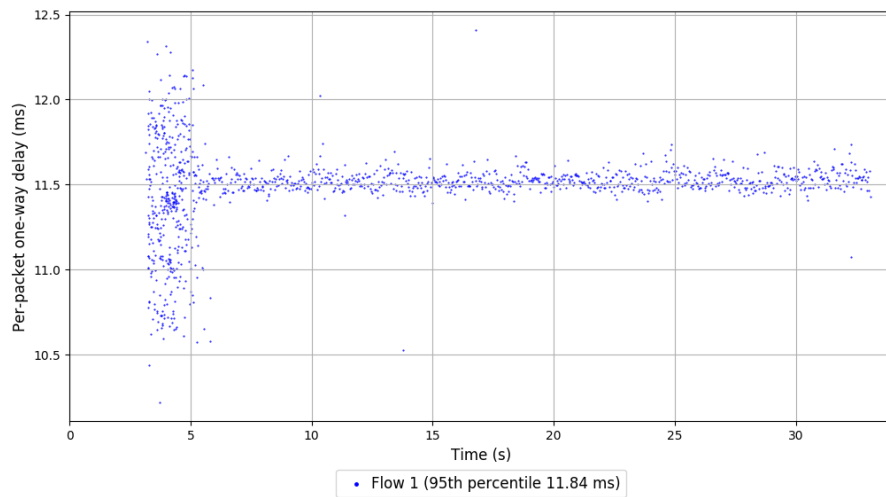
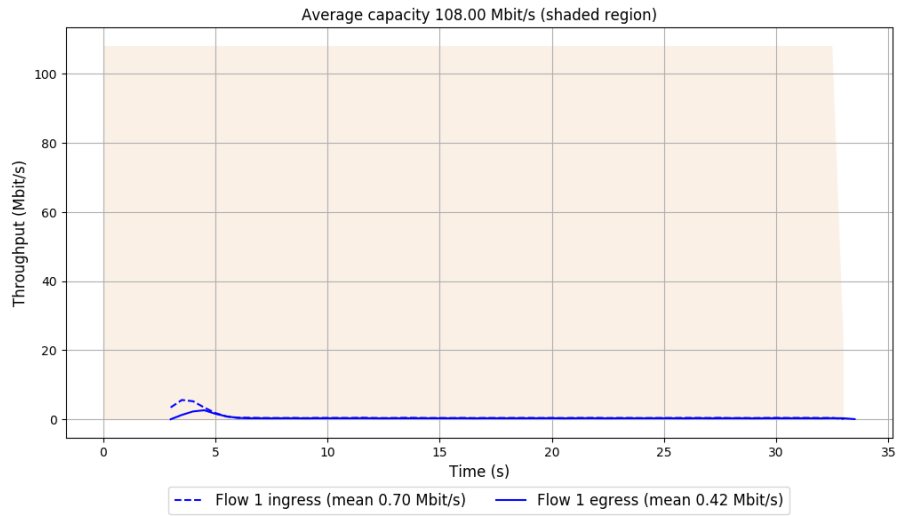
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 11.839 ms

Loss rate: 39.72%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2020-04-16 08:51:52

End at: 2020-04-16 08:52:22

Below is generated by plot.py at 2020-04-16 08:56:31

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 0.39 Mbit/s (0.4% utilization)

95th percentile per-packet one-way delay: 11.750 ms

Loss rate: 36.96%

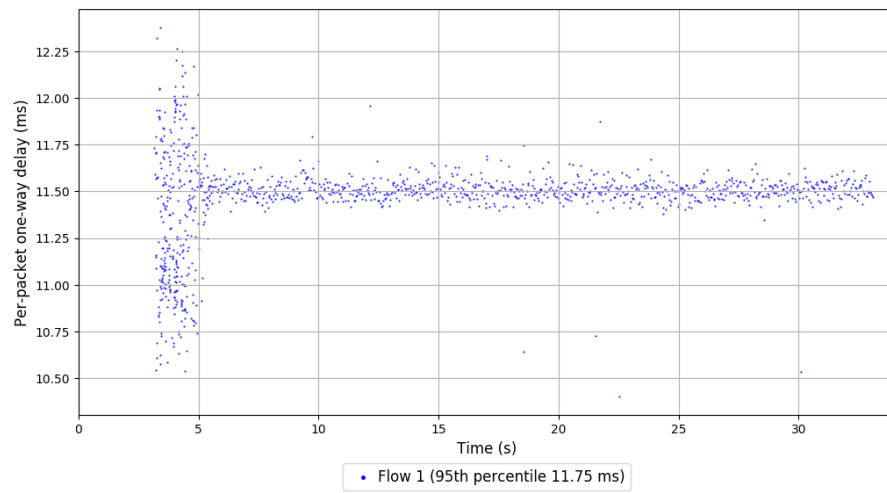
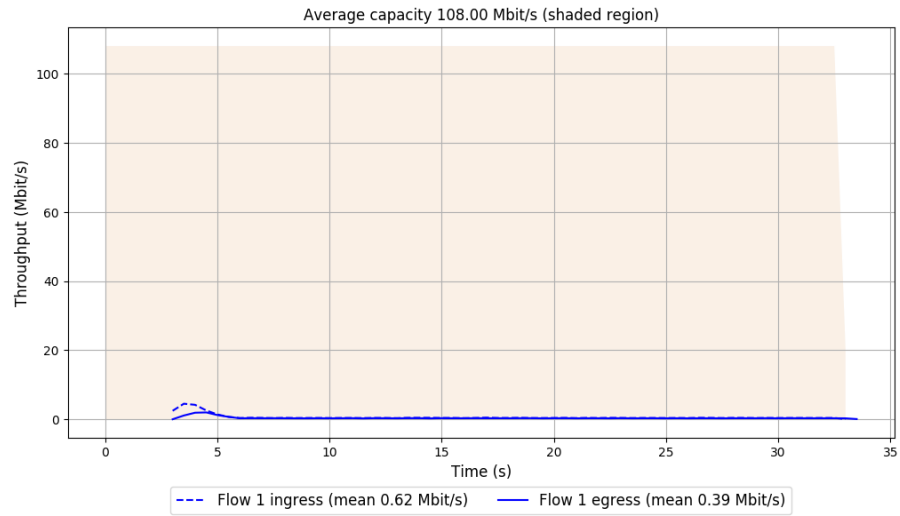
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 11.750 ms

Loss rate: 36.96%

Run 3: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2020-04-16 08:21:42

End at: 2020-04-16 08:22:12

Below is generated by plot.py at 2020-04-16 08:56:36

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 1.11 Mbit/s (1.0% utilization)

95th percentile per-packet one-way delay: 12.406 ms

Loss rate: 95.40%

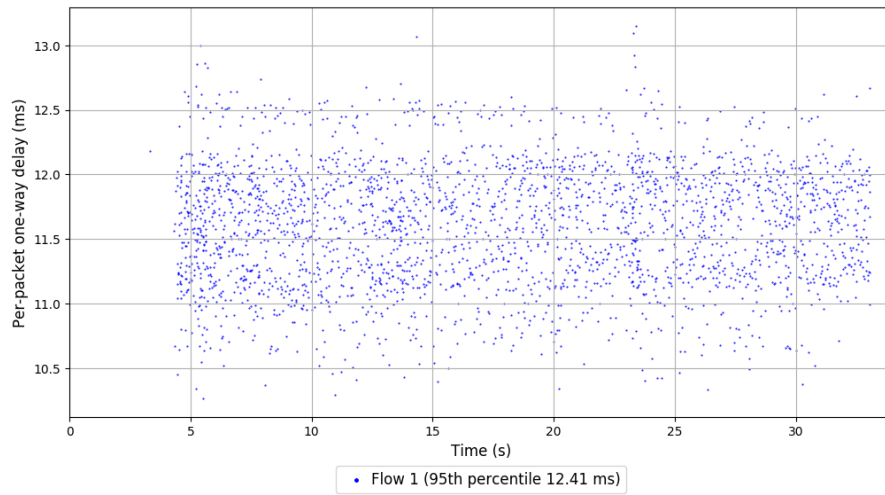
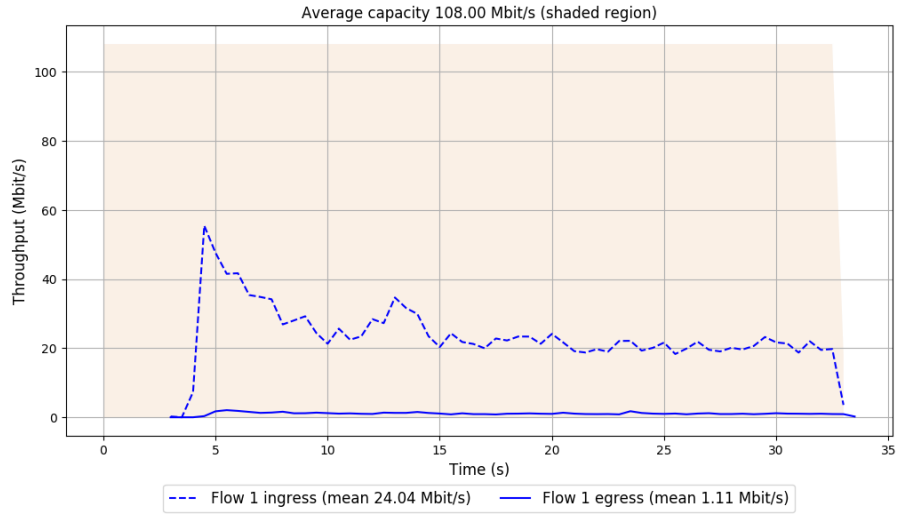
-- Flow 1:

Average throughput: 1.11 Mbit/s

95th percentile per-packet one-way delay: 12.406 ms

Loss rate: 95.40%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2020-04-16 08:36:28

End at: 2020-04-16 08:36:58

Below is generated by plot.py at 2020-04-16 08:57:07

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 1.03 Mbit/s (0.9% utilization)

95th percentile per-packet one-way delay: 12.323 ms

Loss rate: 95.32%

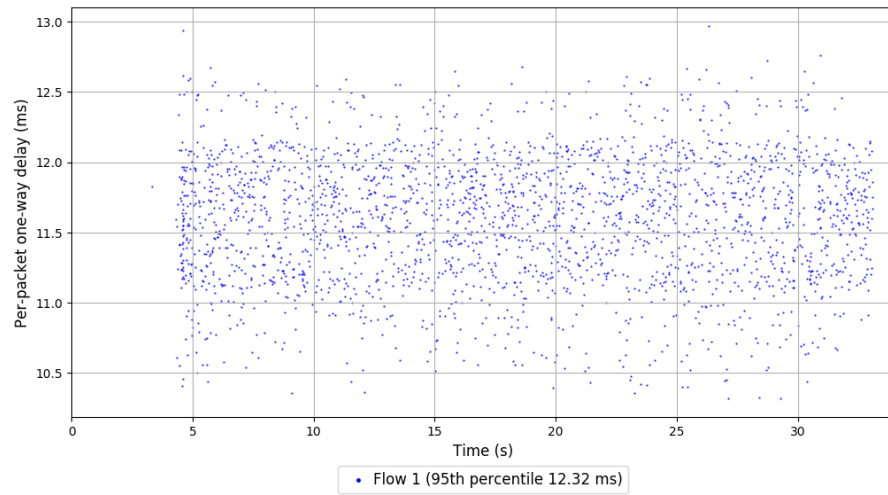
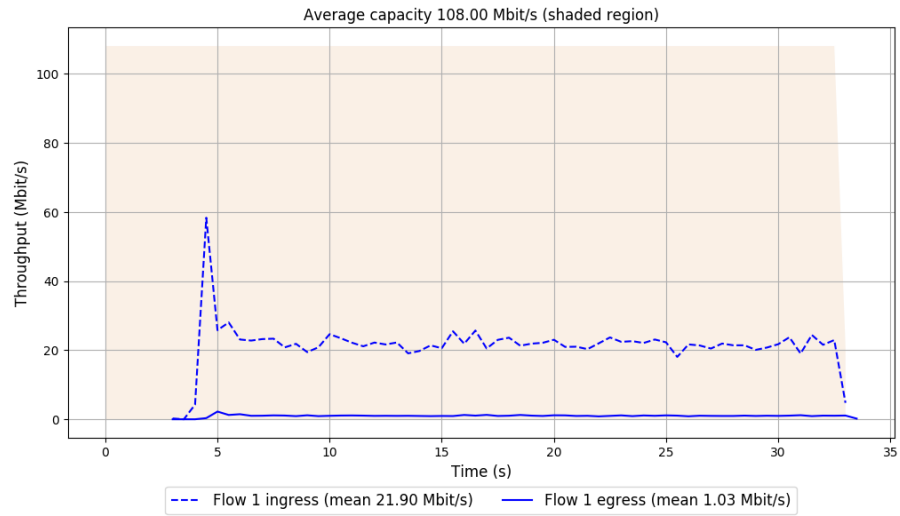
-- Flow 1:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 12.323 ms

Loss rate: 95.32%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2020-04-16 08:51:16

End at: 2020-04-16 08:51:46

Below is generated by plot.py at 2020-04-16 08:57:07

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 0.95 Mbit/s (0.9% utilization)

95th percentile per-packet one-way delay: 12.331 ms

Loss rate: 94.93%

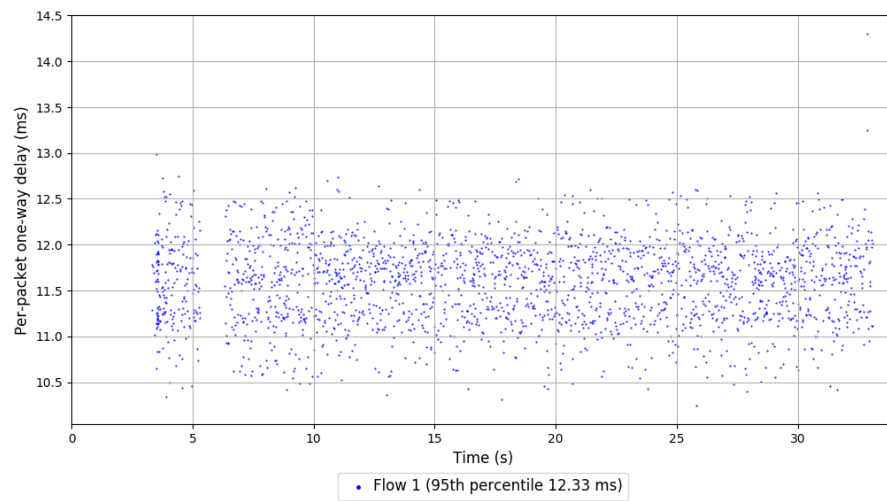
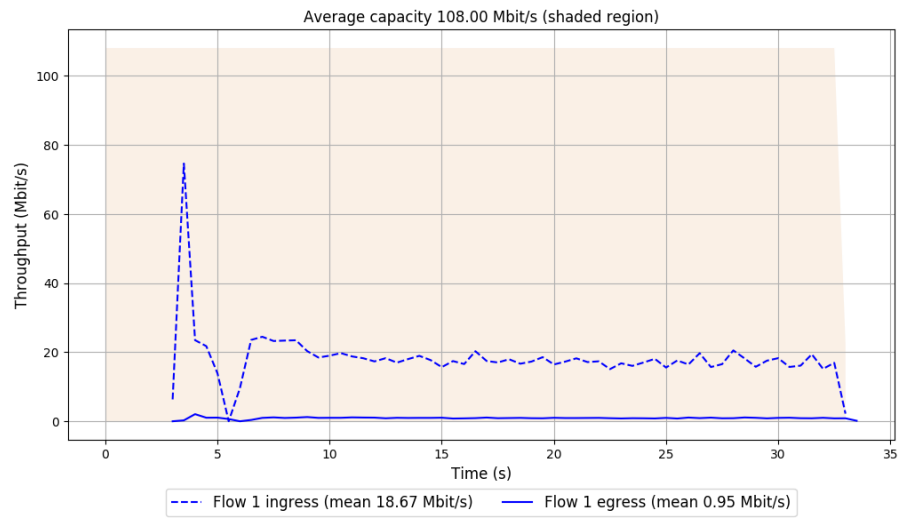
-- Flow 1:

Average throughput: 0.95 Mbit/s

95th percentile per-packet one-way delay: 12.331 ms

Loss rate: 94.93%

Run 3: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2020-04-16 08:14:20

End at: 2020-04-16 08:14:50

Below is generated by plot.py at 2020-04-16 08:57:07

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 1.03 Mbit/s (1.0% utilization)

95th percentile per-packet one-way delay: 11.625 ms

Loss rate: 15.45%

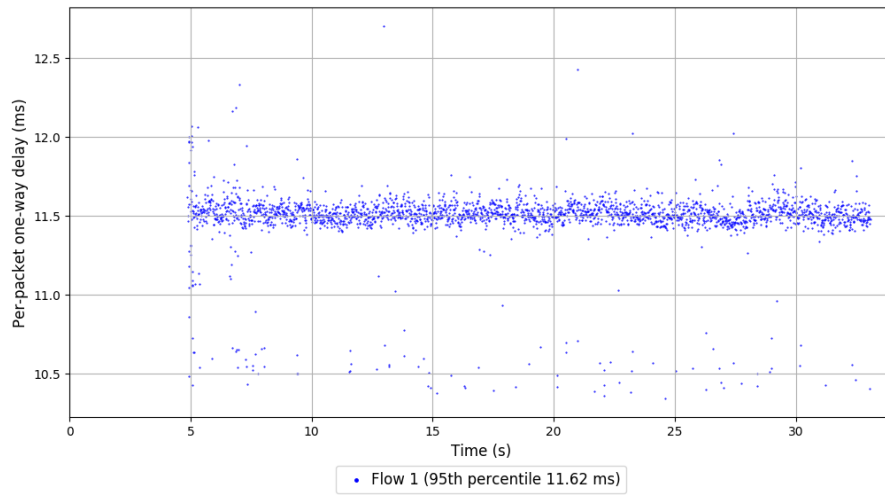
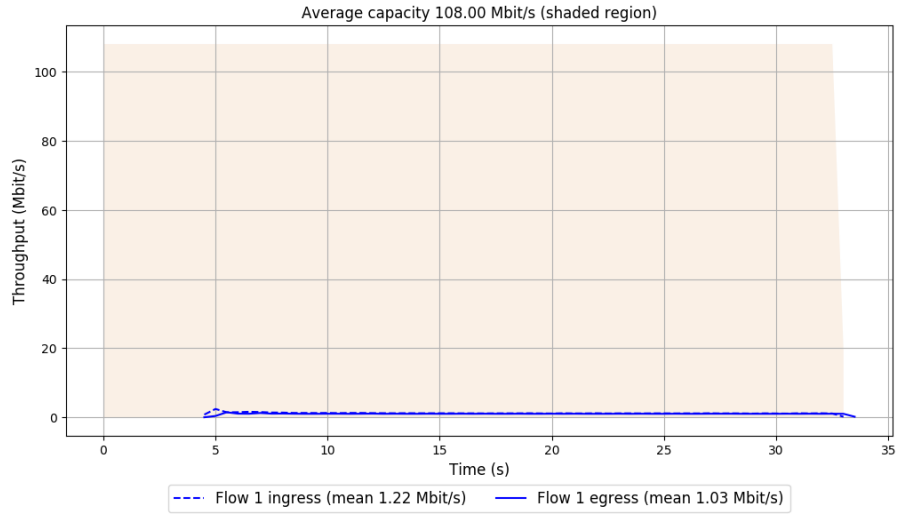
-- Flow 1:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 11.625 ms

Loss rate: 15.45%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2020-04-16 08:28:59

End at: 2020-04-16 08:29:29

Below is generated by plot.py at 2020-04-16 08:57:07

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 1.04 Mbit/s (1.0% utilization)

95th percentile per-packet one-way delay: 11.599 ms

Loss rate: 18.40%

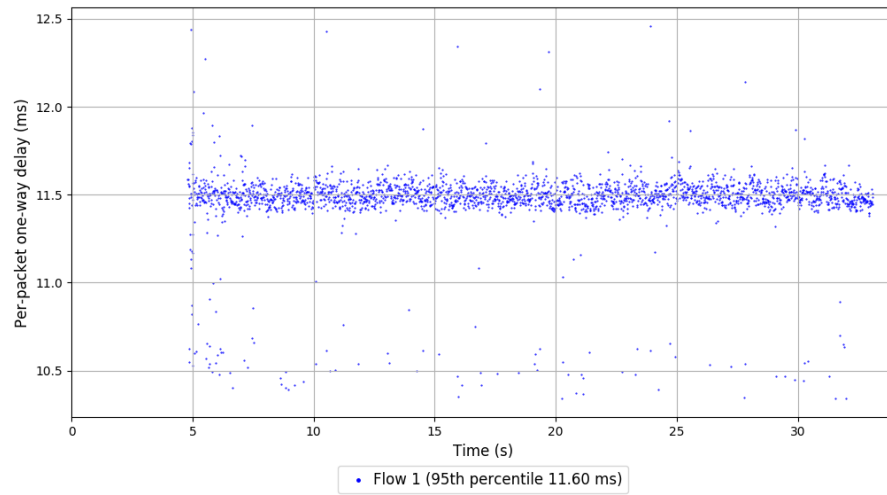
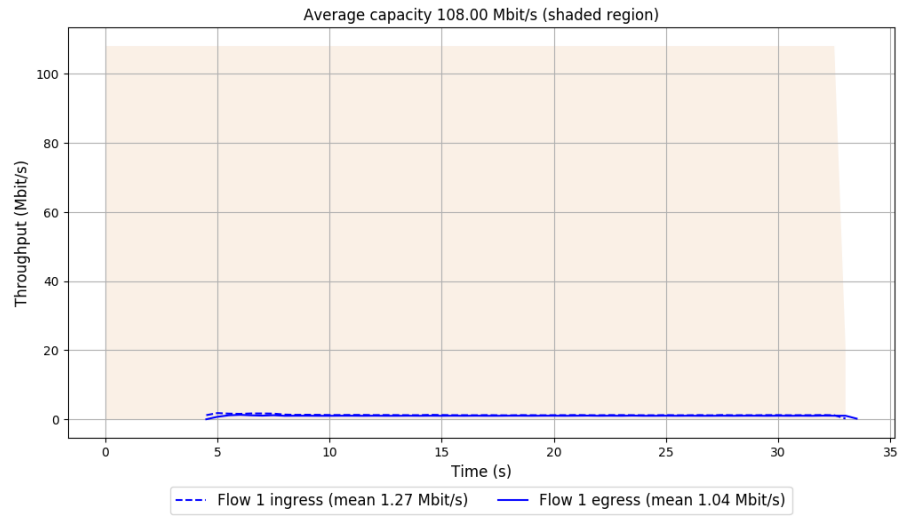
-- Flow 1:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 11.599 ms

Loss rate: 18.40%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2020-04-16 08:43:46

End at: 2020-04-16 08:44:16

Below is generated by plot.py at 2020-04-16 08:57:07

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 1.03 Mbit/s (1.0% utilization)

95th percentile per-packet one-way delay: 11.782 ms

Loss rate: 17.02%

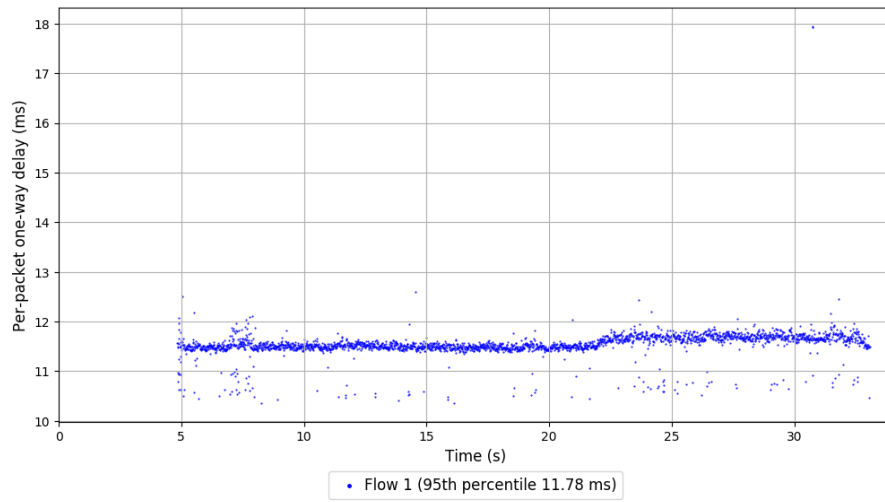
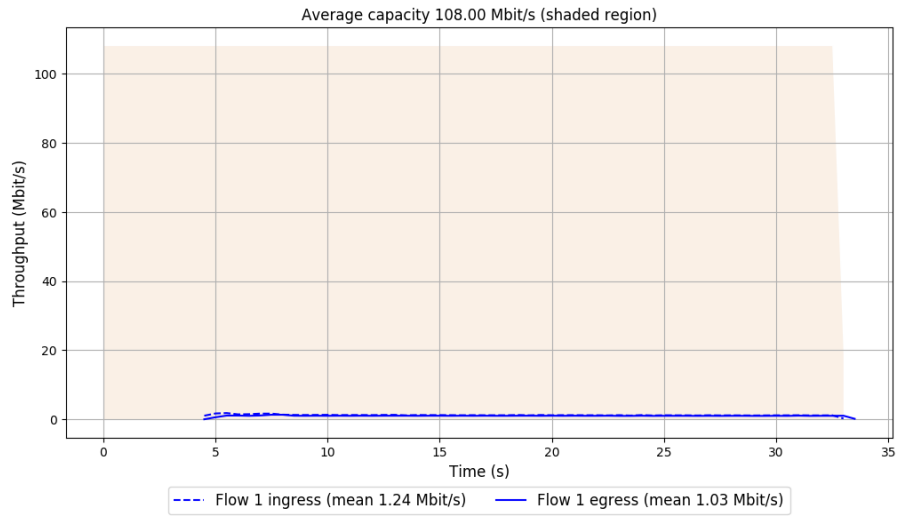
-- Flow 1:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 11.782 ms

Loss rate: 17.02%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2020-04-16 08:23:31

End at: 2020-04-16 08:24:01

Below is generated by plot.py at 2020-04-16 08:57:07

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 1.05 Mbit/s (1.0% utilization)

95th percentile per-packet one-way delay: 11.614 ms

Loss rate: 17.93%

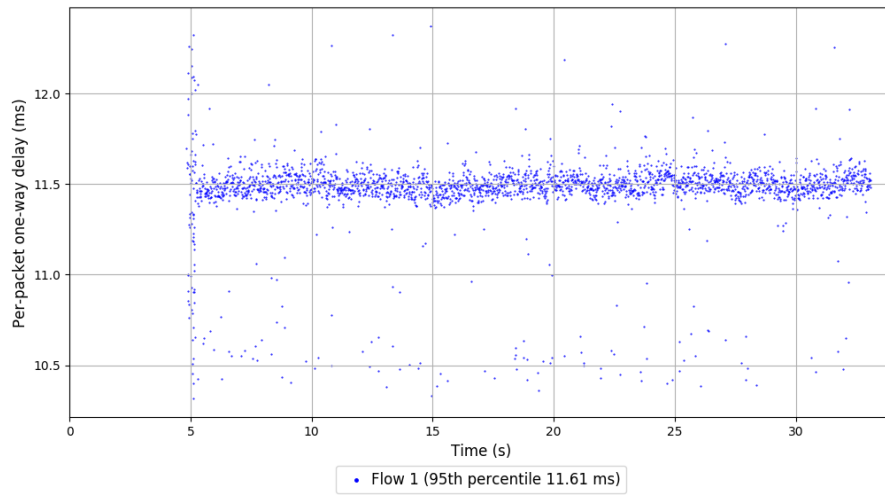
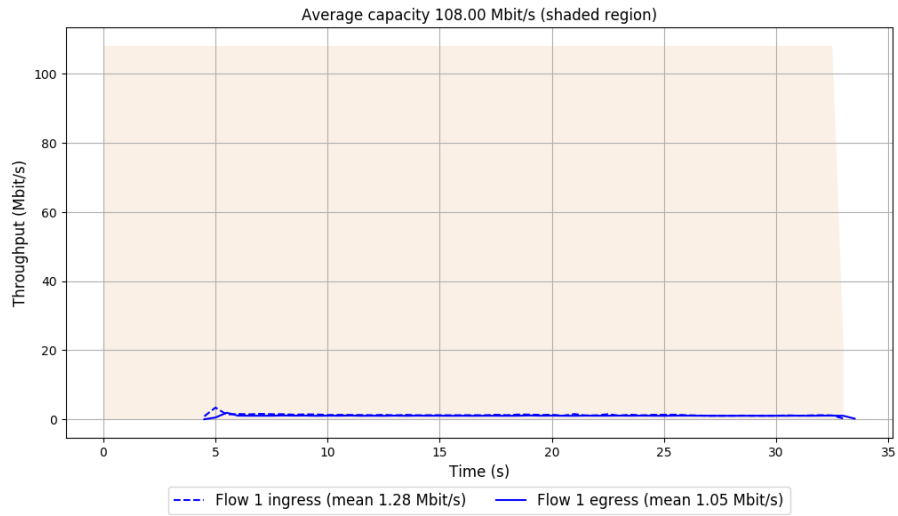
-- Flow 1:

Average throughput: 1.05 Mbit/s

95th percentile per-packet one-way delay: 11.614 ms

Loss rate: 17.93%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2020-04-16 08:38:18

End at: 2020-04-16 08:38:48

Below is generated by plot.py at 2020-04-16 08:57:07

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 1.03 Mbit/s (1.0% utilization)

95th percentile per-packet one-way delay: 11.628 ms

Loss rate: 16.73%

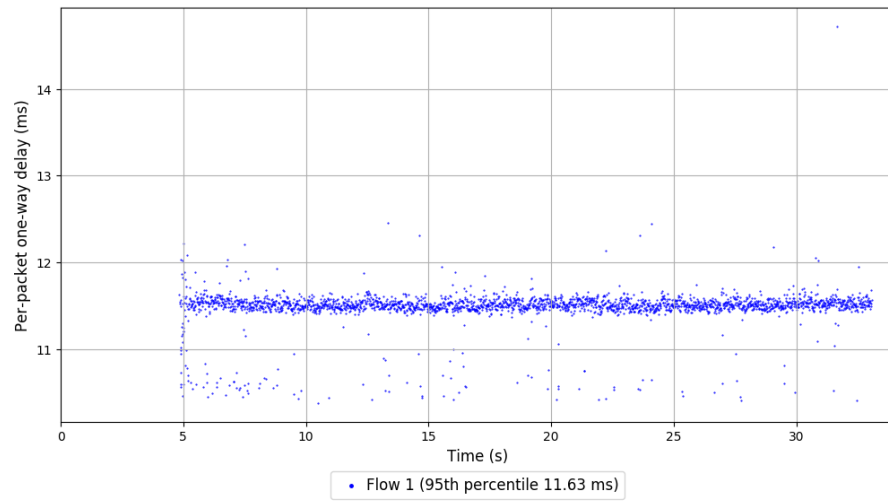
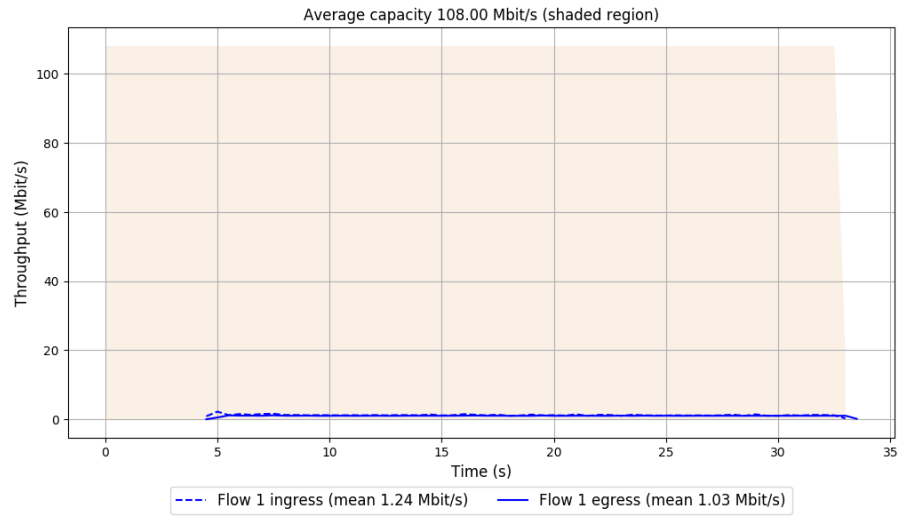
-- Flow 1:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 11.628 ms

Loss rate: 16.73%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2020-04-16 08:53:05

End at: 2020-04-16 08:53:35

Below is generated by plot.py at 2020-04-16 08:57:09

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 1.03 Mbit/s (1.0% utilization)

95th percentile per-packet one-way delay: 11.612 ms

Loss rate: 17.33%

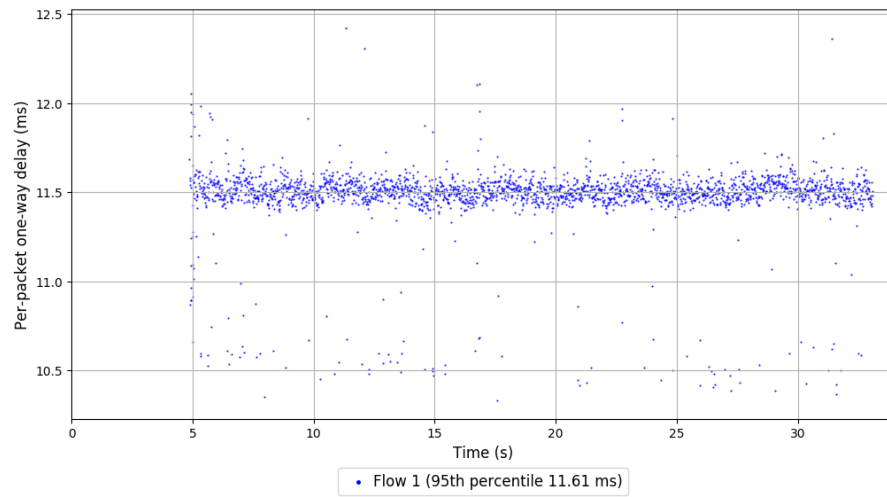
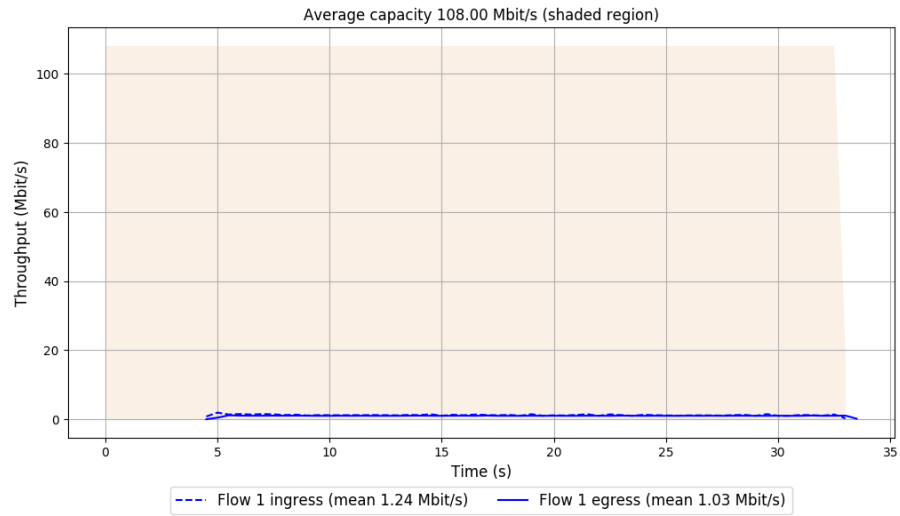
-- Flow 1:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 11.612 ms

Loss rate: 17.33%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2020-04-16 08:24:07

End at: 2020-04-16 08:24:37

Below is generated by plot.py at 2020-04-16 08:57:32

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 1.03 Mbit/s (1.0% utilization)

95th percentile per-packet one-way delay: 11.617 ms

Loss rate: 39.14%

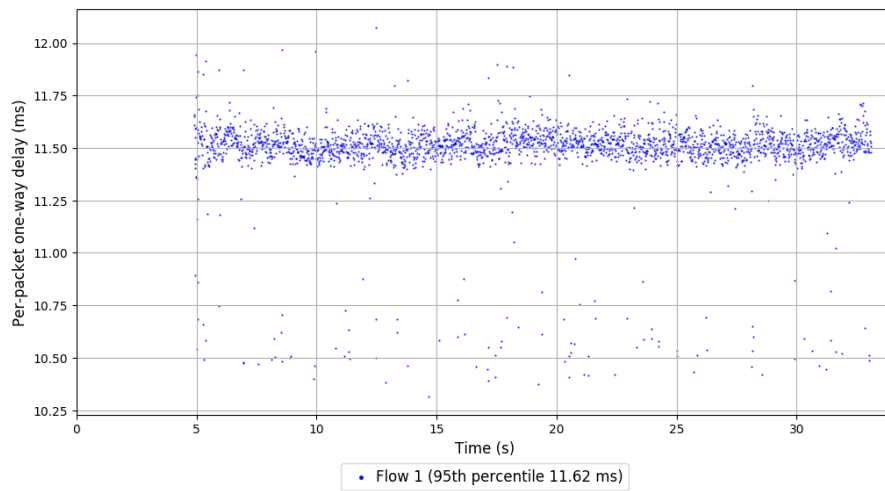
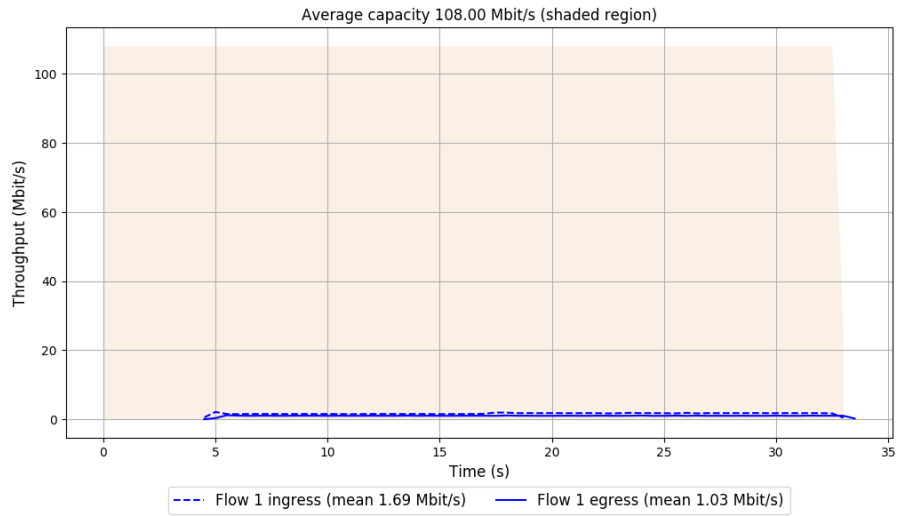
-- Flow 1:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 11.617 ms

Loss rate: 39.14%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2020-04-16 08:38:54

End at: 2020-04-16 08:39:24

Below is generated by plot.py at 2020-04-16 08:57:33

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 1.03 Mbit/s (1.0% utilization)

95th percentile per-packet one-way delay: 11.751 ms

Loss rate: 39.56%

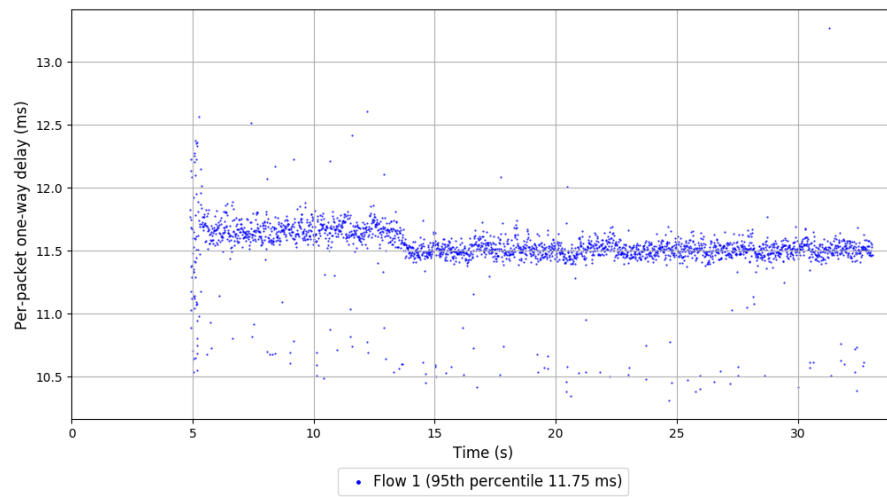
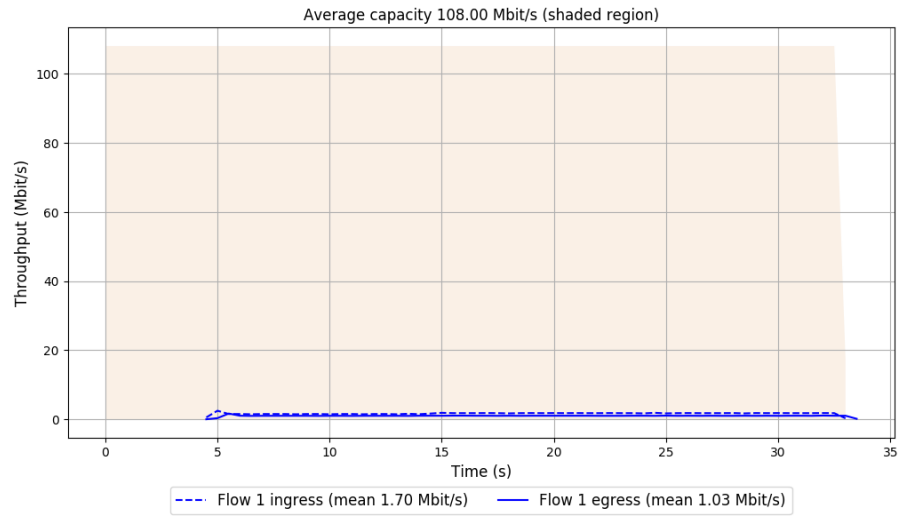
-- Flow 1:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 11.751 ms

Loss rate: 39.56%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2020-04-16 08:53:41

End at: 2020-04-16 08:54:11

Below is generated by plot.py at 2020-04-16 08:57:35

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 1.03 Mbit/s (1.0% utilization)

95th percentile per-packet one-way delay: 11.630 ms

Loss rate: 32.89%

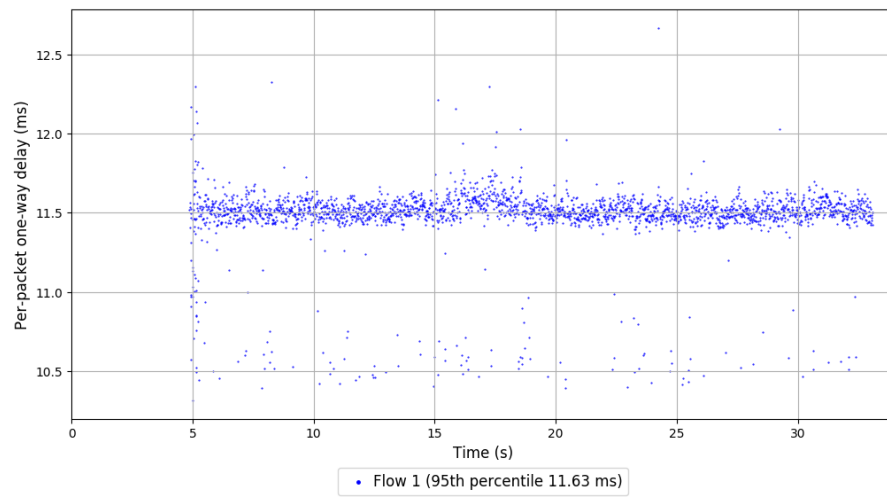
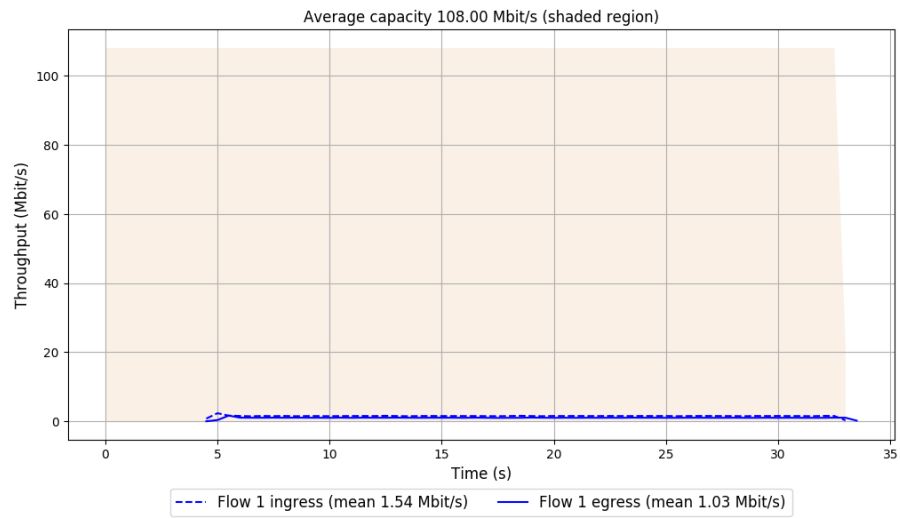
-- Flow 1:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 11.630 ms

Loss rate: 32.89%

Run 3: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MuseST

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

End at: 2020-04-16 08:16:38

Below is generated by plot.py at 2020-04-16 08:57:36

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 1.04 Mbit/s (1.0% utilization)

95th percentile per-packet one-way delay: 11.611 ms

Loss rate: 22.74%

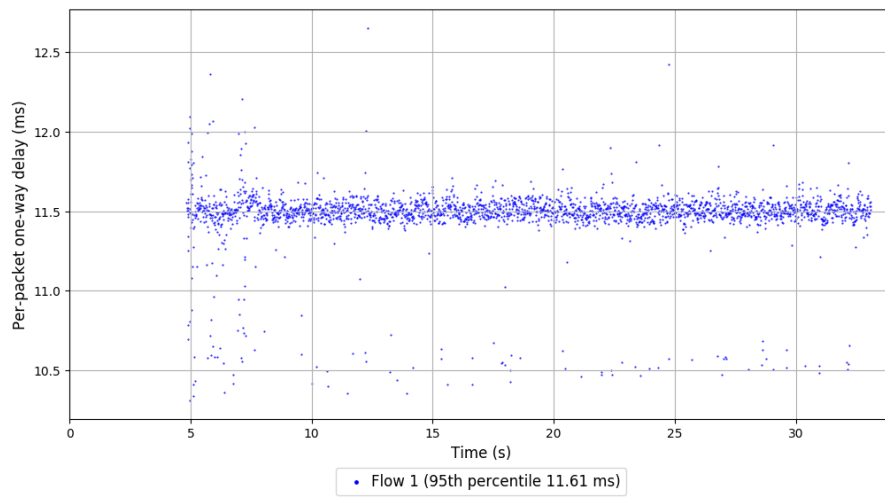
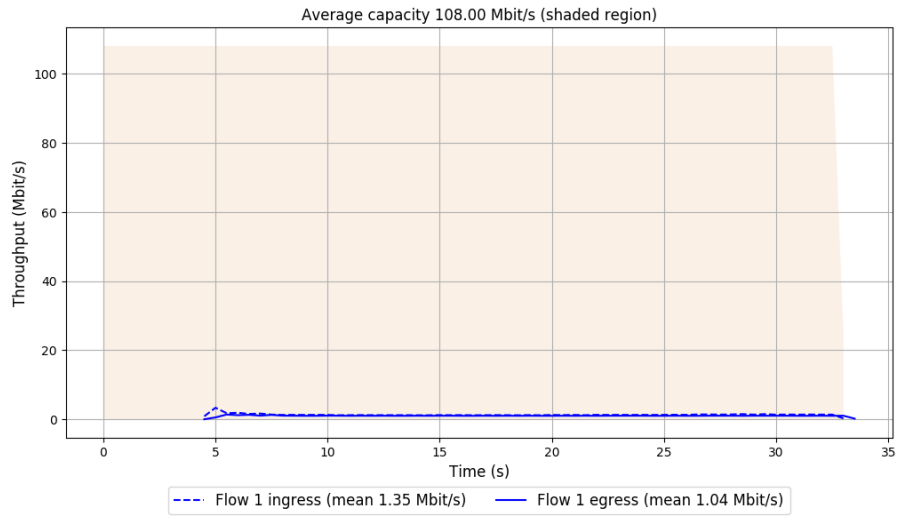
-- Flow 1:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 11.611 ms

Loss rate: 22.74%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MuseST

Start at: 2020-04-16 08:30:47

End at: 2020-04-16 08:31:17

Below is generated by plot.py at 2020-04-16 08:57:36

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 1.06 Mbit/s (1.0% utilization)

95th percentile per-packet one-way delay: 11.591 ms

Loss rate: 22.86%

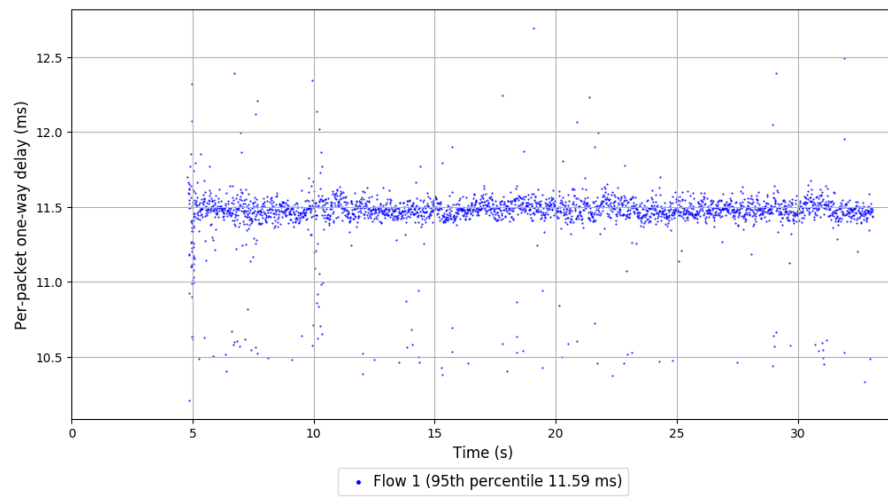
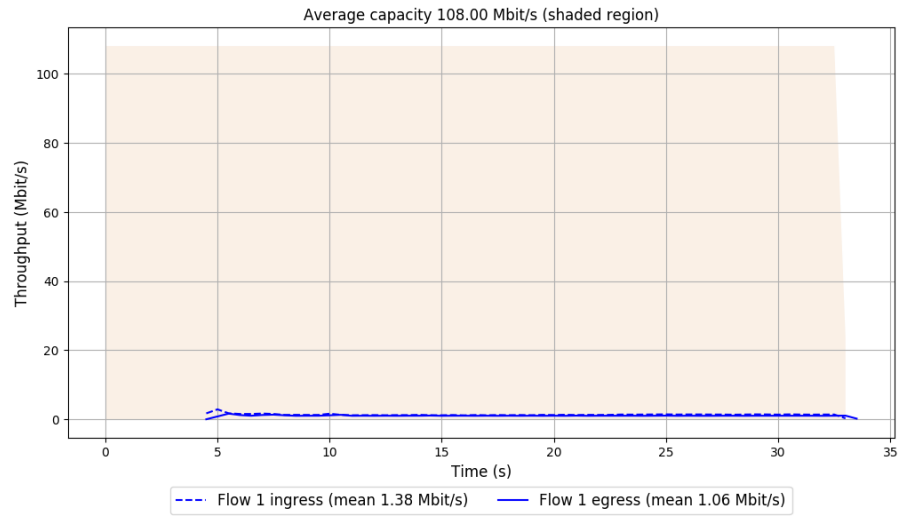
-- Flow 1:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 11.591 ms

Loss rate: 22.86%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MuseST

Start at: 2020-04-16 08:45:35

End at: 2020-04-16 08:46:05

Below is generated by plot.py at 2020-04-16 08:57:39

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 1.08 Mbit/s (1.0% utilization)

95th percentile per-packet one-way delay: 11.793 ms

Loss rate: 22.91%

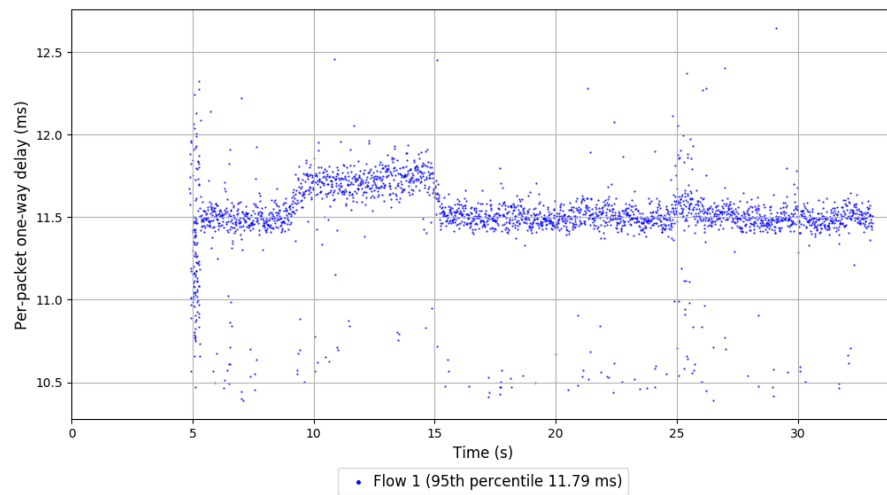
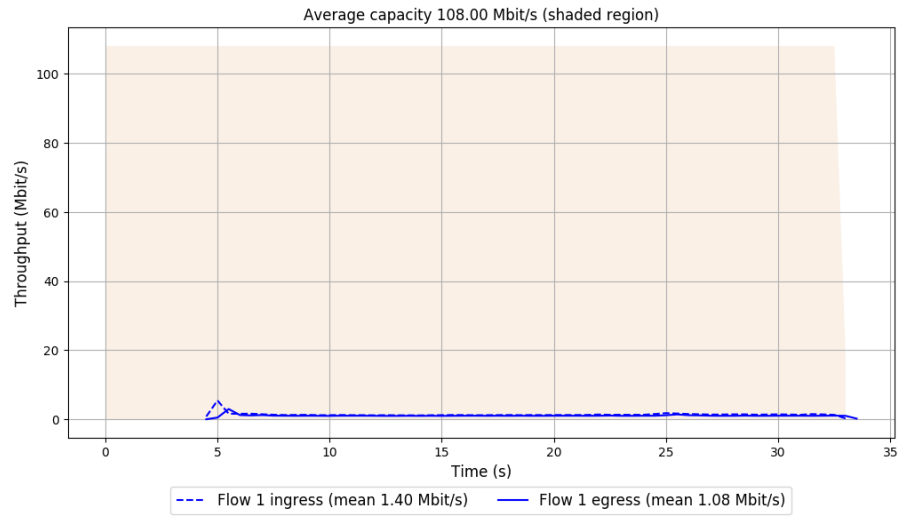
-- Flow 1:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 11.793 ms

Loss rate: 22.91%

Run 3: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2020-04-16 08:14:56

End at: 2020-04-16 08:15:26

Below is generated by plot.py at 2020-04-16 08:57:39

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 0.18 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 11.811 ms

Loss rate: 44.40%

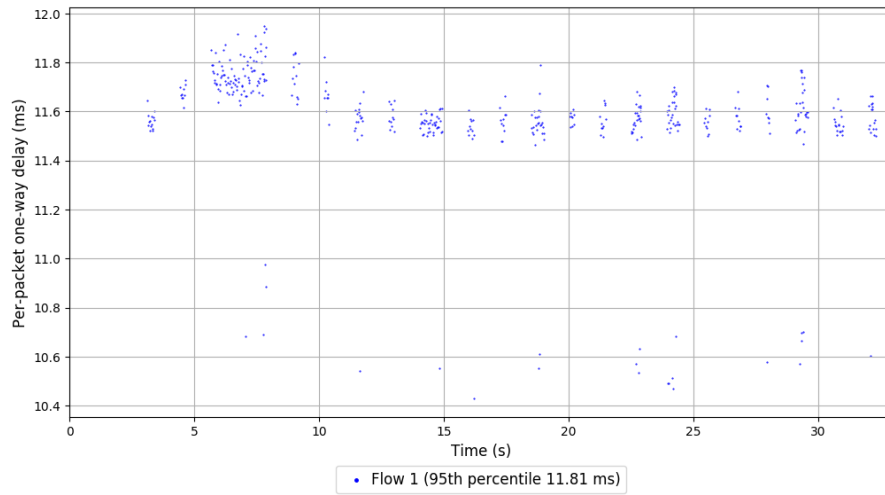
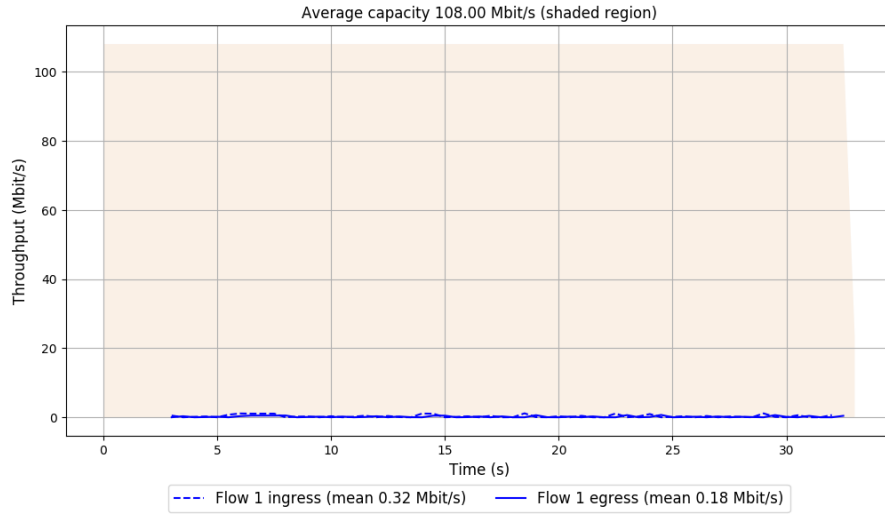
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 11.811 ms

Loss rate: 44.40%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2020-04-16 08:29:35

End at: 2020-04-16 08:30:05

Below is generated by plot.py at 2020-04-16 08:57:42

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 0.21 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 11.612 ms

Loss rate: 49.62%

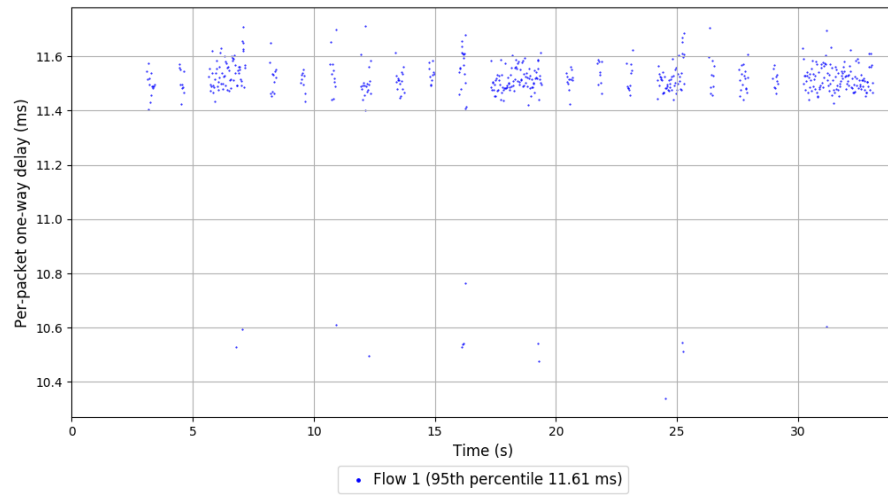
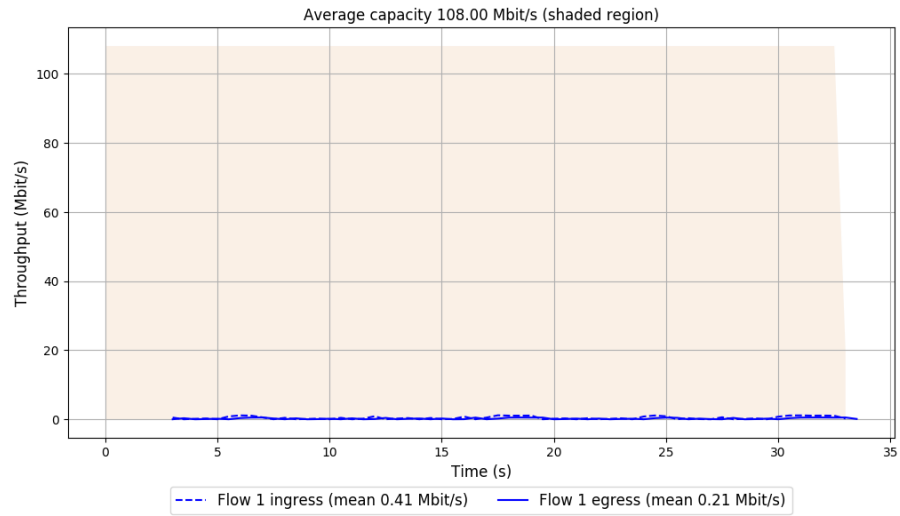
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 11.612 ms

Loss rate: 49.62%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2020-04-16 08:44:22

End at: 2020-04-16 08:44:53

Below is generated by plot.py at 2020-04-16 08:58:04

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 0.18 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 11.635 ms

Loss rate: 47.98%

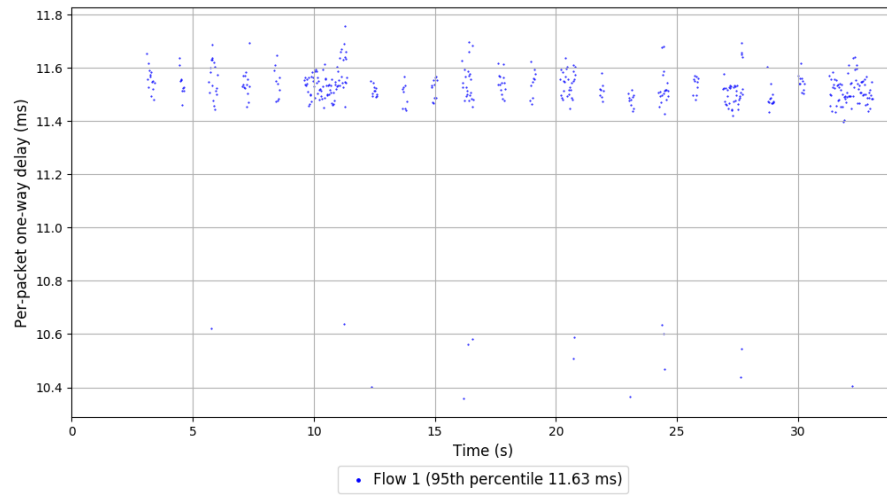
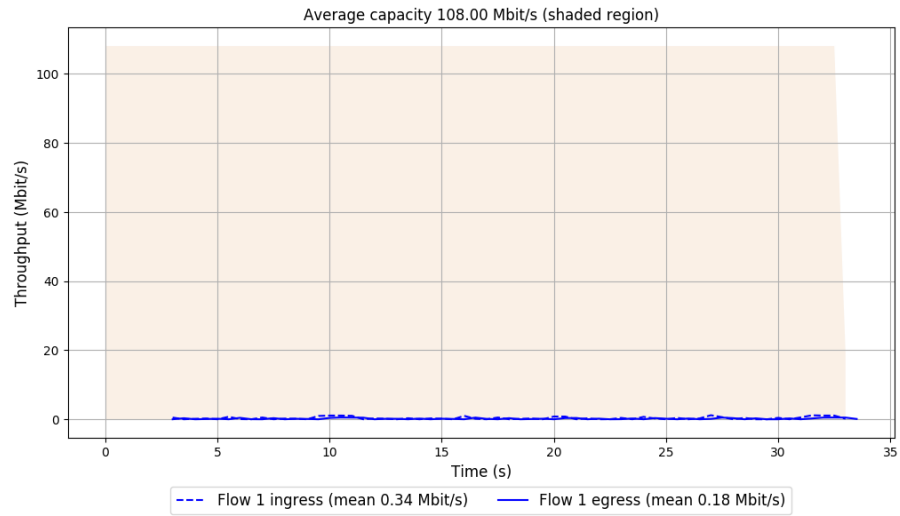
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 11.635 ms

Loss rate: 47.98%

Run 3: Report of LEDBAT — Data Link



Run 1: Statistics of Muses_DecisionTree

Start at: 2020-04-16 08:19:17

End at: 2020-04-16 08:19:47

Below is generated by plot.py at 2020-04-16 08:58:05

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 0.19 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 11.659 ms

Loss rate: 33.79%

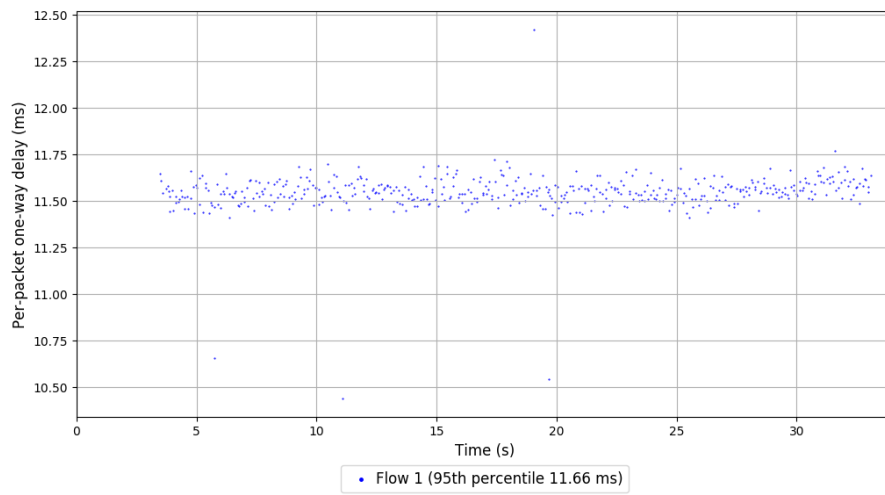
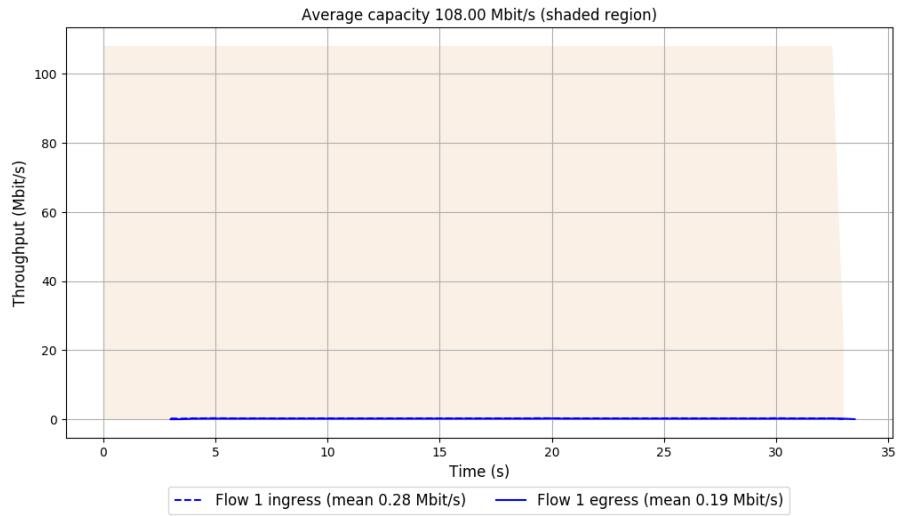
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 11.659 ms

Loss rate: 33.79%

Run 1: Report of Muses_DecisionTree — Data Link



Run 2: Statistics of Muses_DecisionTree

Start at: 2020-04-16 08:34:04

End at: 2020-04-16 08:34:34

Below is generated by plot.py at 2020-04-16 08:58:08

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 0.19 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 11.620 ms

Loss rate: 33.47%

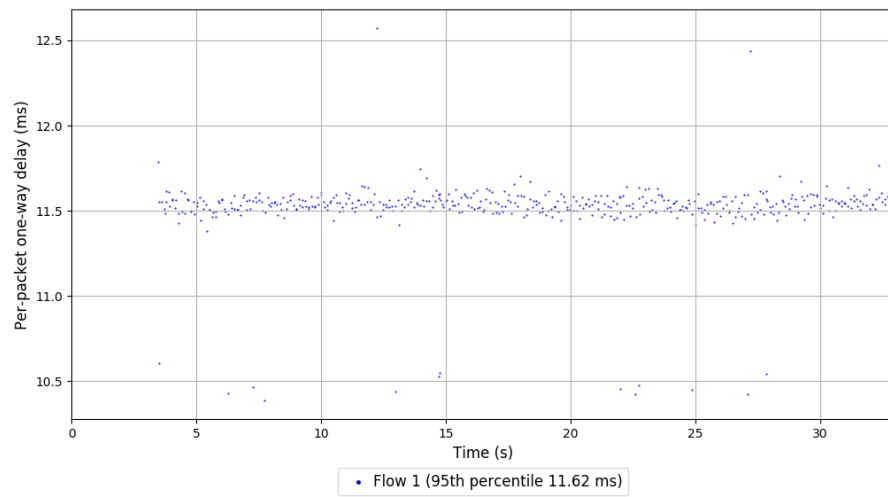
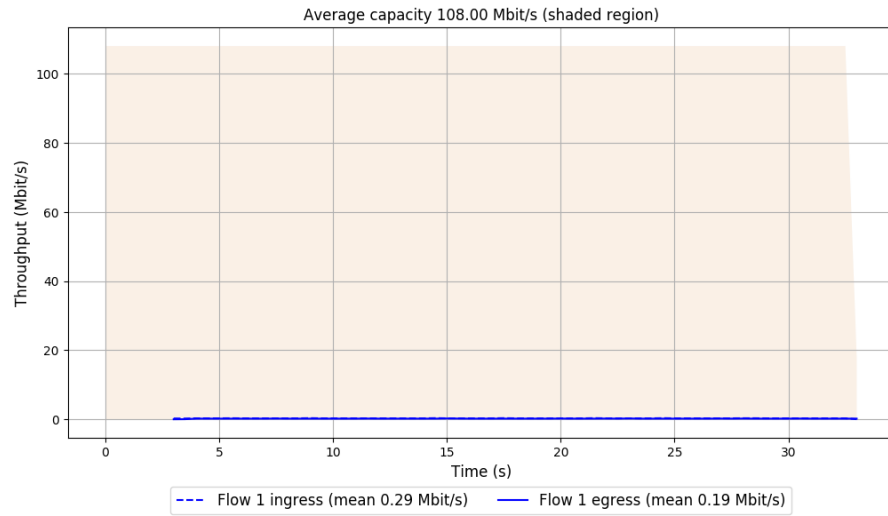
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 11.620 ms

Loss rate: 33.47%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

Start at: 2020-04-16 08:48:51

End at: 2020-04-16 08:49:21

Below is generated by plot.py at 2020-04-16 08:58:08

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 0.19 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 11.723 ms

Loss rate: 33.65%

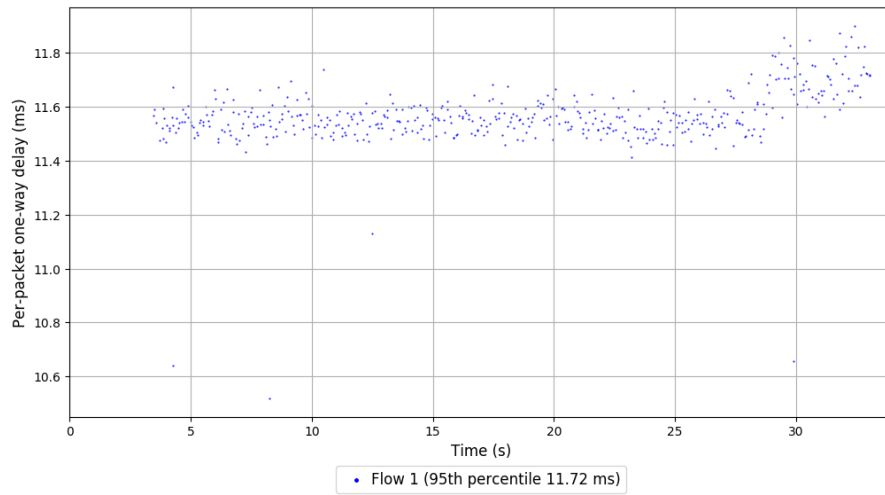
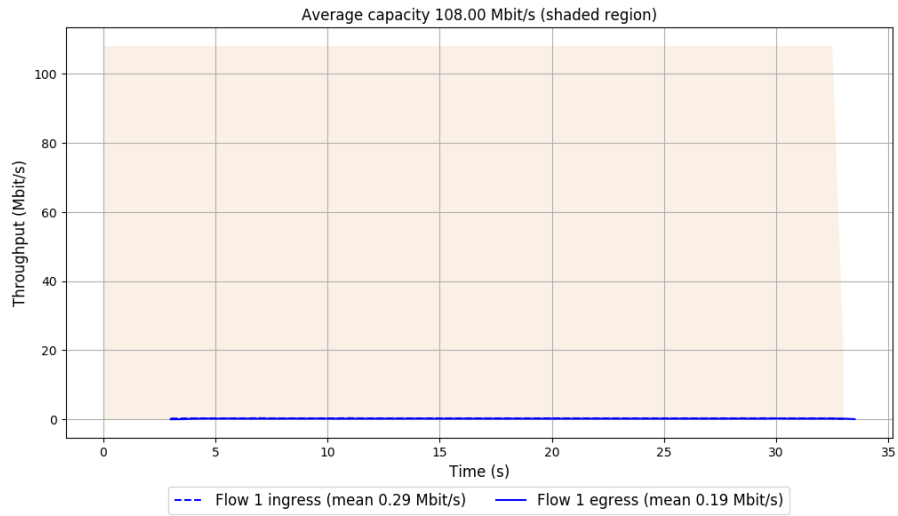
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 11.723 ms

Loss rate: 33.65%

Run 3: Report of Muses_DecisionTree — Data Link



Run 1: Statistics of Muses_DecisionTreeH0

Start at: 2020-04-16 08:13:44

End at: 2020-04-16 08:14:14

Below is generated by plot.py at 2020-04-16 08:58:08

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 0.19 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 11.670 ms

Loss rate: 43.64%

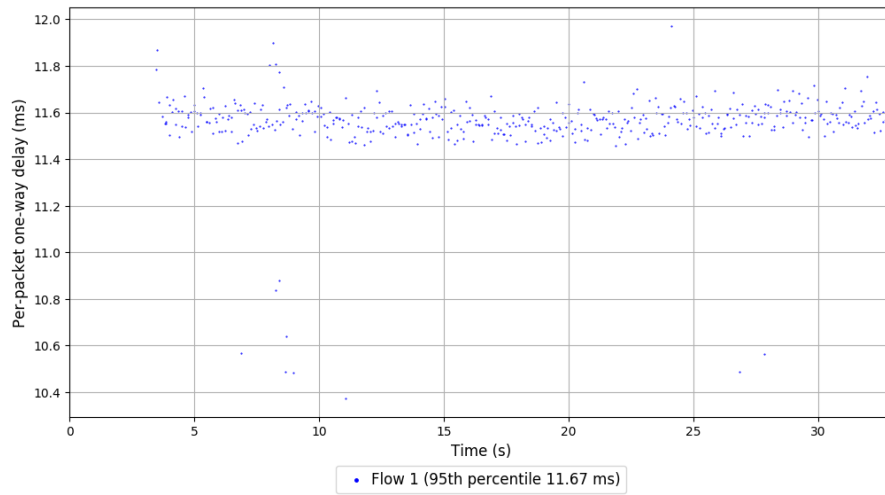
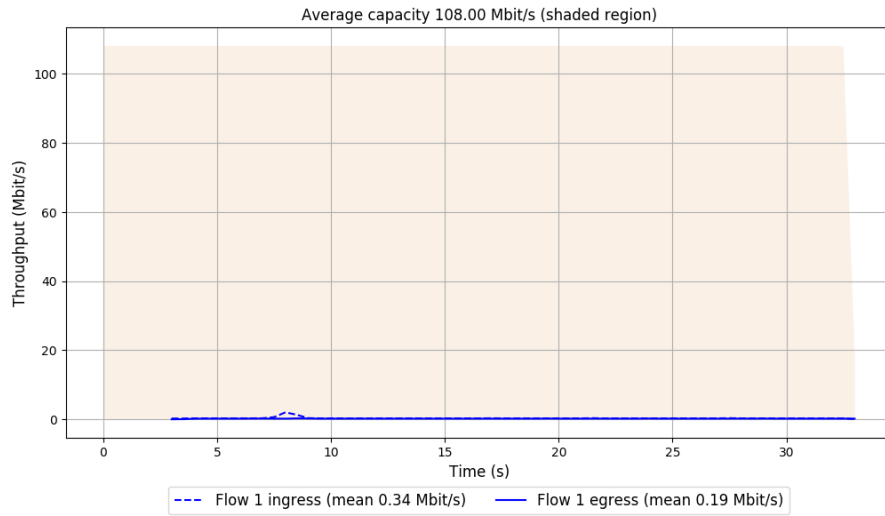
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 11.670 ms

Loss rate: 43.64%

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2020-04-16 08:28:22

End at: 2020-04-16 08:28:52

Below is generated by plot.py at 2020-04-16 08:58:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 0.32 Mbit/s (0.3% utilization)

95th percentile per-packet one-way delay: 12.165 ms

Loss rate: 95.90%

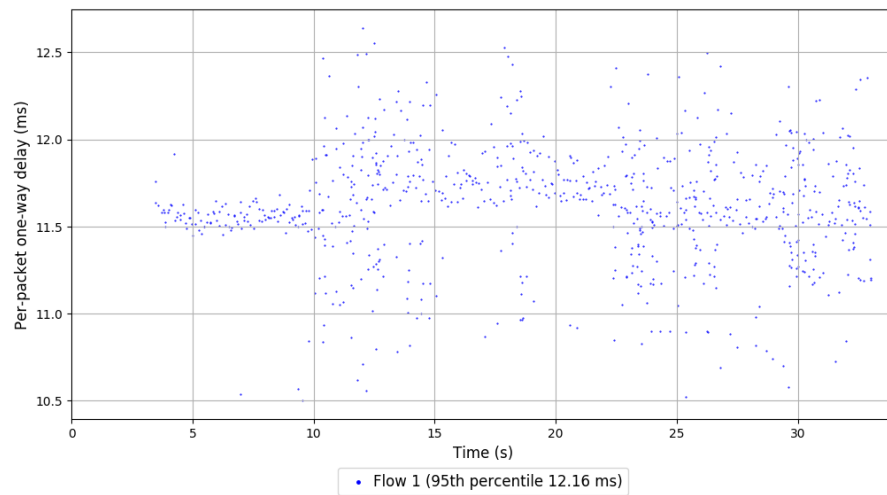
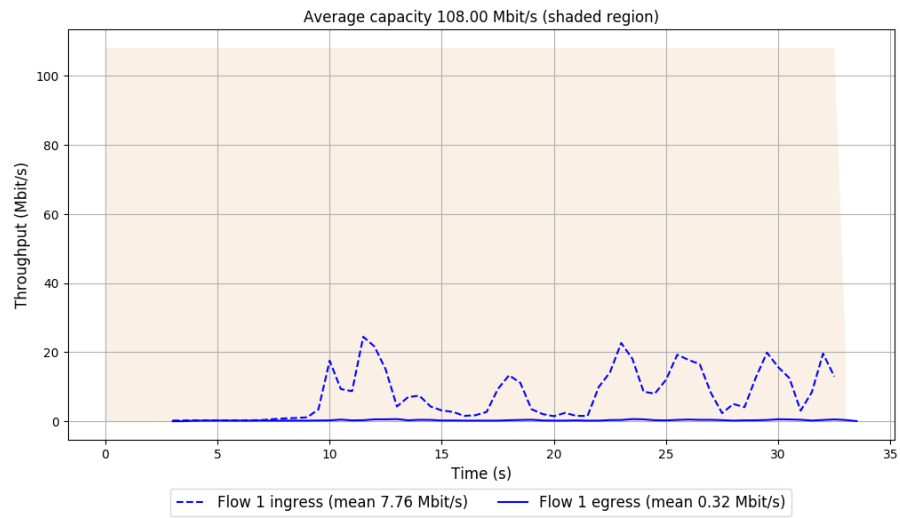
-- Flow 1:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 12.165 ms

Loss rate: 95.90%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2020-04-16 08:43:10

End at: 2020-04-16 08:43:40

Below is generated by plot.py at 2020-04-16 08:58:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 0.19 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 11.619 ms

Loss rate: 34.11%

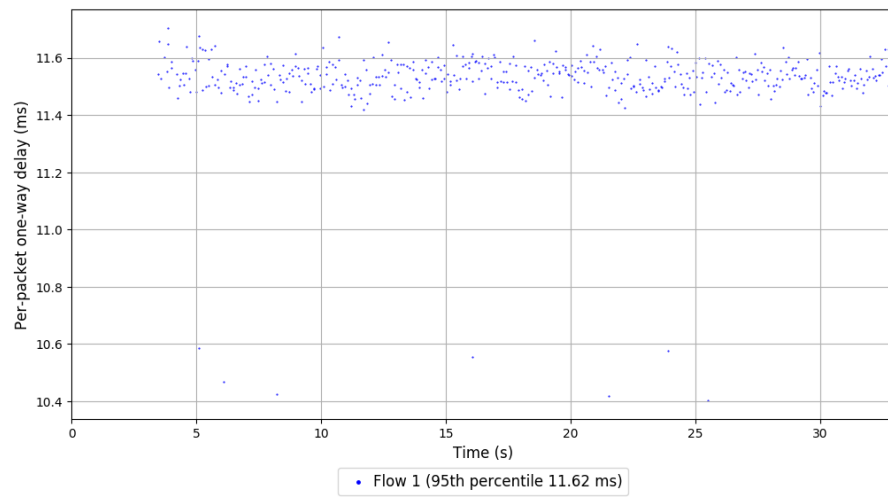
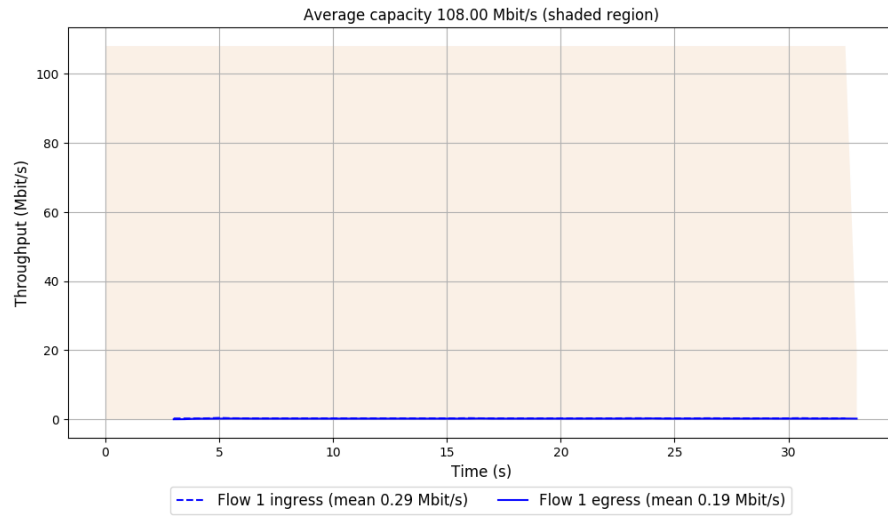
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 11.619 ms

Loss rate: 34.11%

Run 3: Report of Muses_DecisionTreeH0 — Data Link



Run 1: Statistics of Muses_DecisionTreeR0

Start at: 2020-04-16 08:10:43

End at: 2020-04-16 08:11:13

Below is generated by plot.py at 2020-04-16 08:58:14

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 0.19 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 11.670 ms

Loss rate: 33.65%

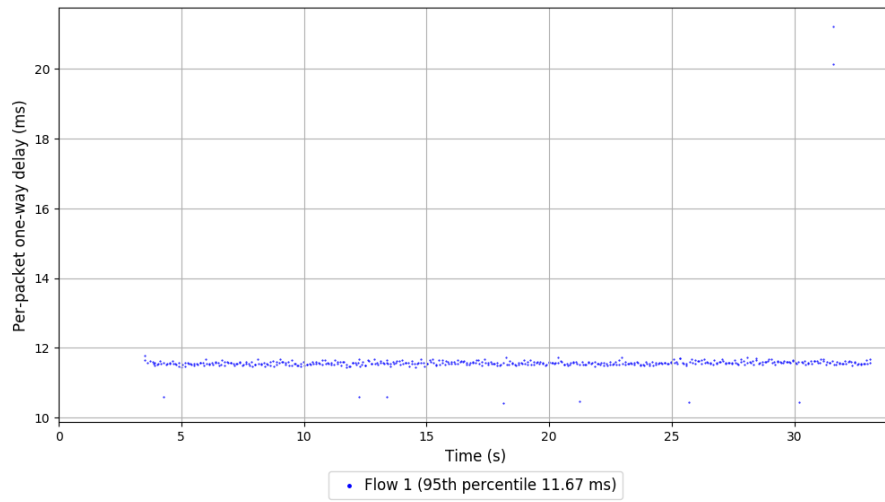
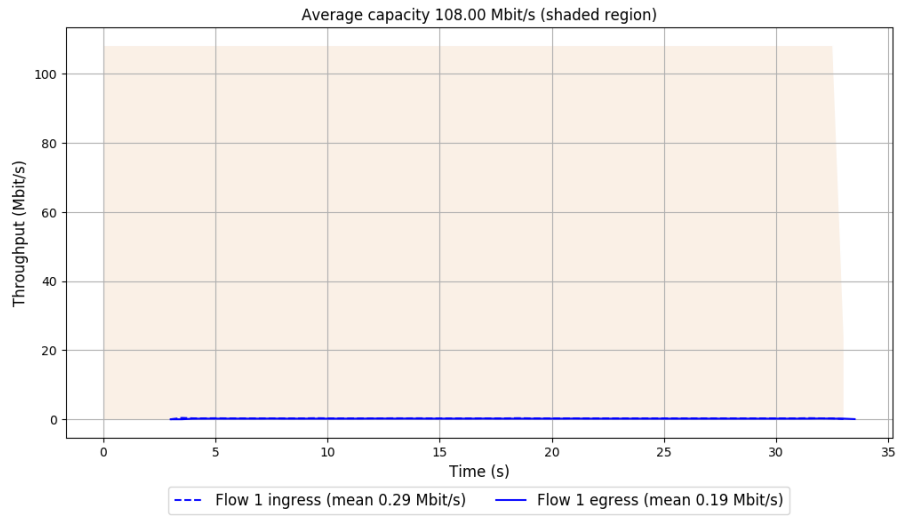
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 11.670 ms

Loss rate: 33.65%

Run 1: Report of Muses_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2020-04-16 08:25:21

End at: 2020-04-16 08:25:51

Below is generated by plot.py at 2020-04-16 08:58:39

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 0.19 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 11.640 ms

Loss rate: 33.33%

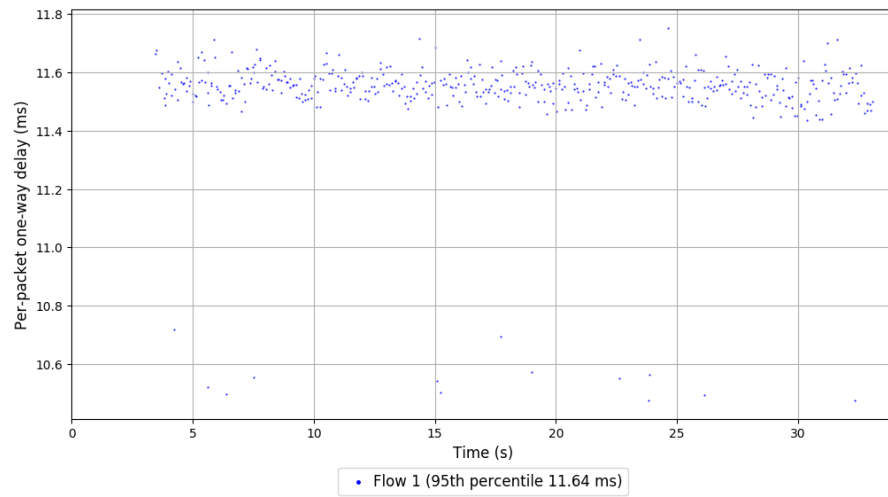
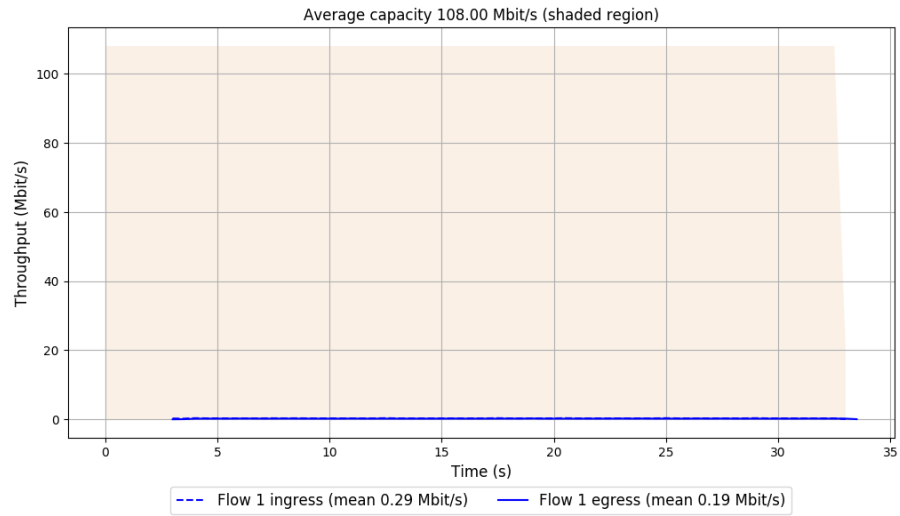
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 11.640 ms

Loss rate: 33.33%

Run 2: Report of Muses_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2020-04-16 08:40:09

End at: 2020-04-16 08:40:39

Below is generated by plot.py at 2020-04-16 08:58:40

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 0.19 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 11.808 ms

Loss rate: 33.75%

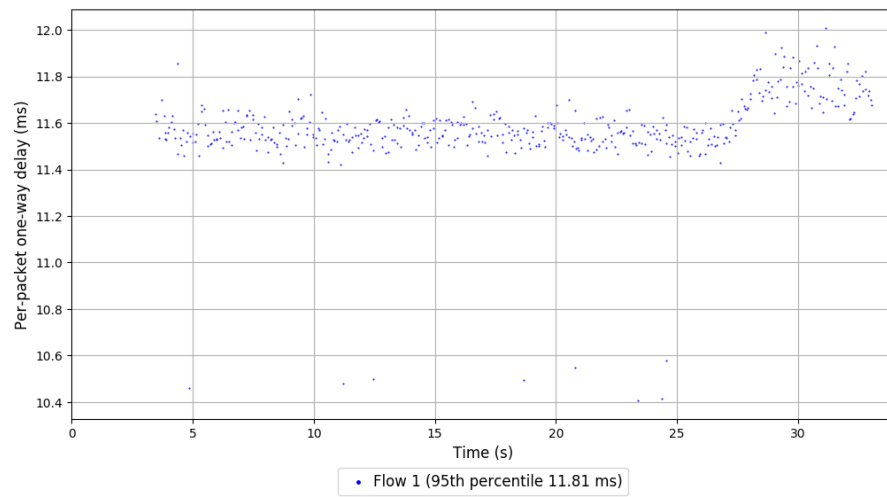
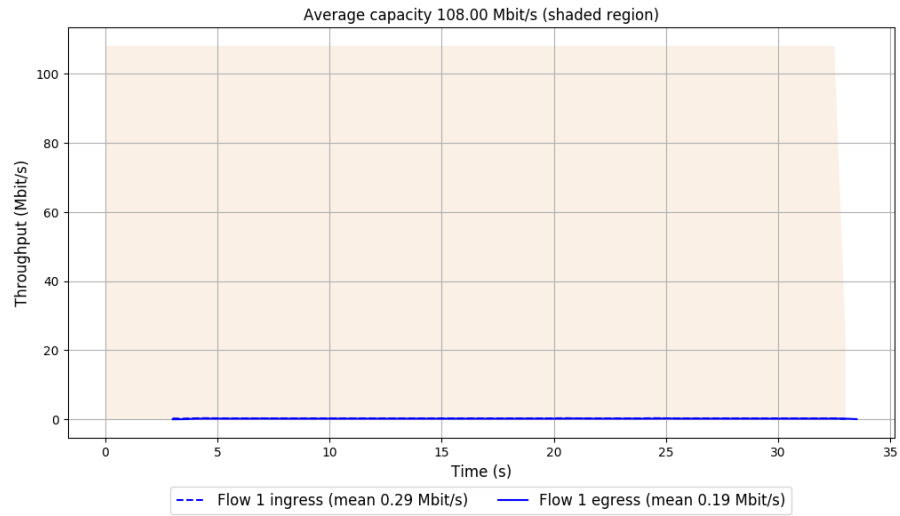
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 11.808 ms

Loss rate: 33.75%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2020-04-16 08:16:44

End at: 2020-04-16 08:17:14

Below is generated by plot.py at 2020-04-16 08:58:45

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 4.15 Mbit/s (3.8% utilization)

95th percentile per-packet one-way delay: 12.053 ms

Loss rate: 3.36%

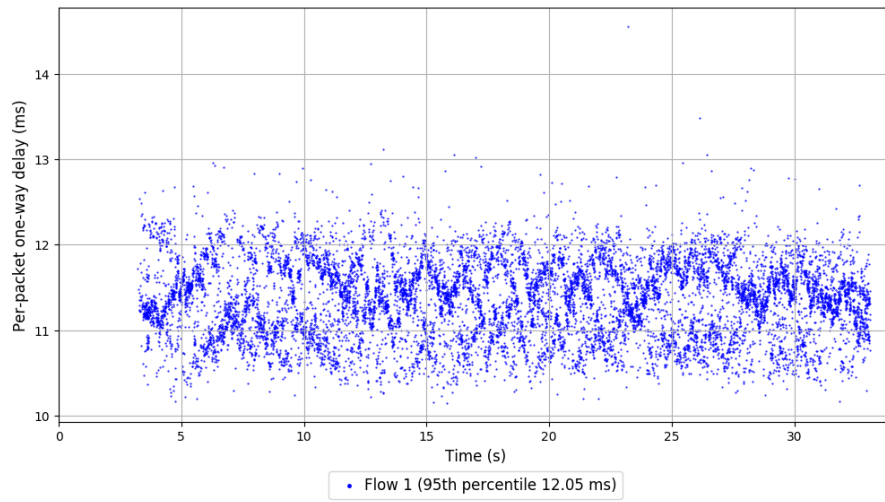
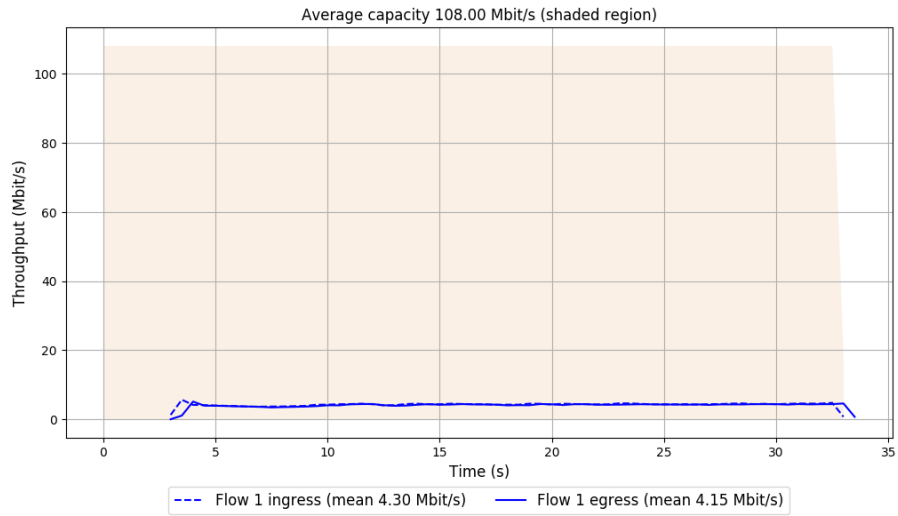
-- Flow 1:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 12.053 ms

Loss rate: 3.36%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2020-04-16 08:31:23

End at: 2020-04-16 08:31:53

Below is generated by plot.py at 2020-04-16 08:58:50

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 7.89 Mbit/s (7.3% utilization)

95th percentile per-packet one-way delay: 12.024 ms

Loss rate: 3.40%

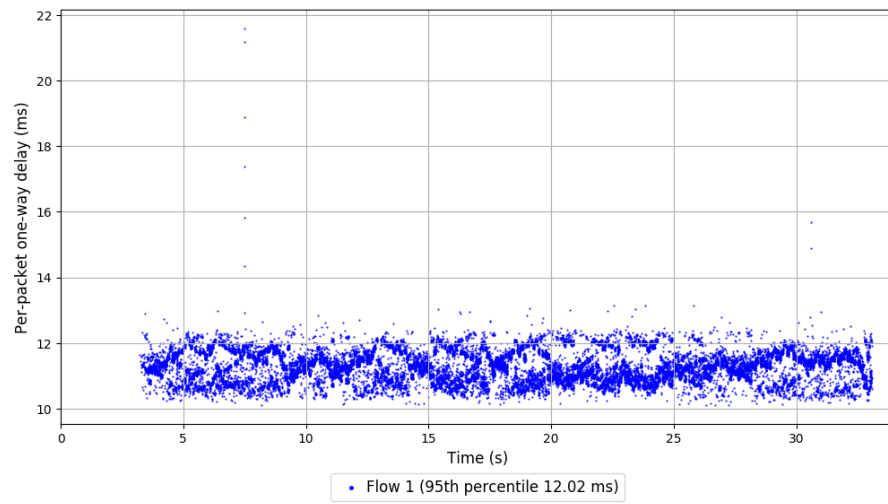
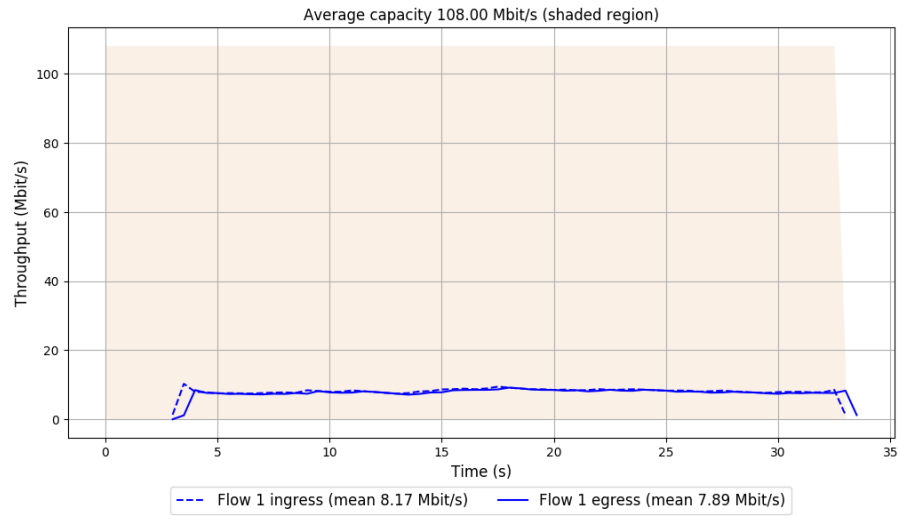
-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 12.024 ms

Loss rate: 3.40%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2020-04-16 08:46:11

End at: 2020-04-16 08:46:41

Below is generated by plot.py at 2020-04-16 08:58:50

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 4.23 Mbit/s (3.9% utilization)

95th percentile per-packet one-way delay: 12.045 ms

Loss rate: 3.44%

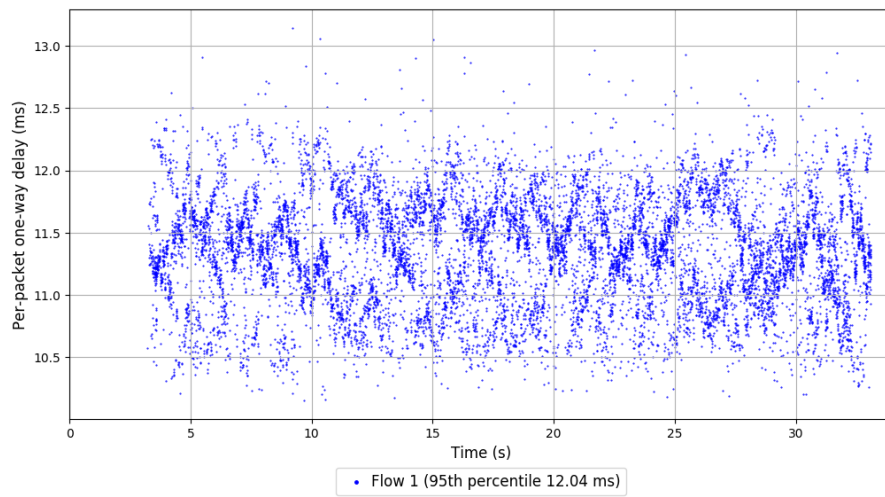
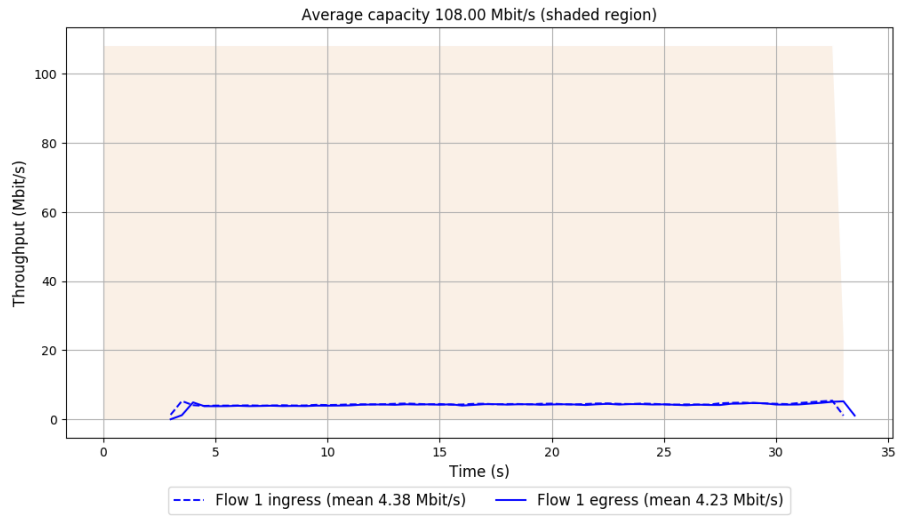
-- Flow 1:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 12.045 ms

Loss rate: 3.44%

Run 3: Report of PCC-Allegro — Data Link

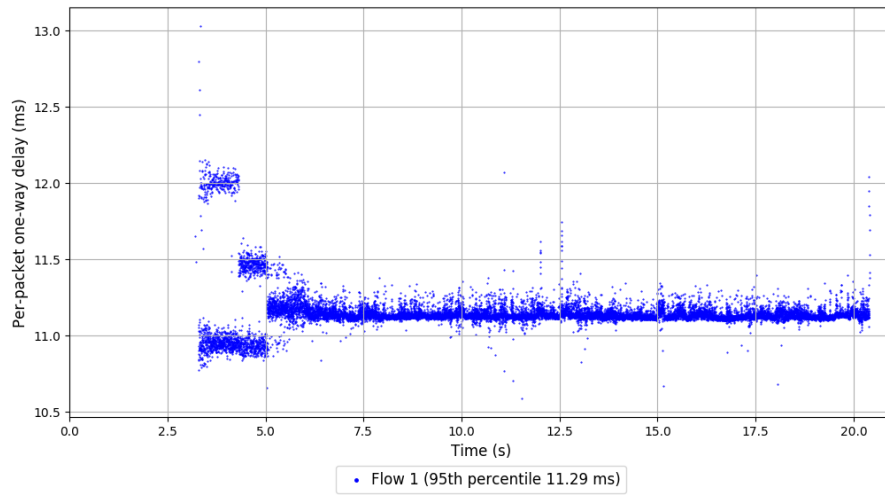
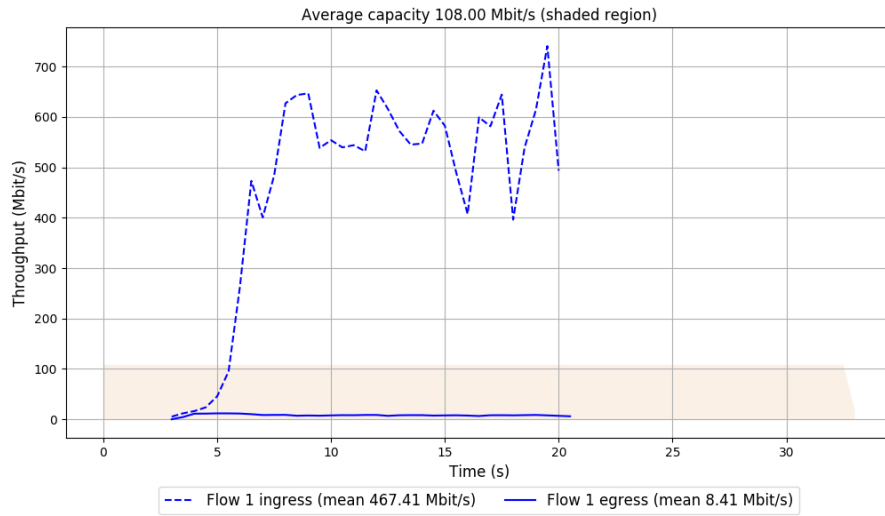


Run 1: Statistics of PCC-Expr

Start at: 2020-04-16 08:18:33

End at: 2020-04-16 08:19:03

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2020-04-16 08:33:12

End at: 2020-04-16 08:33:42

Below is generated by plot.py at 2020-04-16 09:01:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 8.06 Mbit/s (7.5% utilization)

95th percentile per-packet one-way delay: 11.248 ms

Loss rate: 98.48%

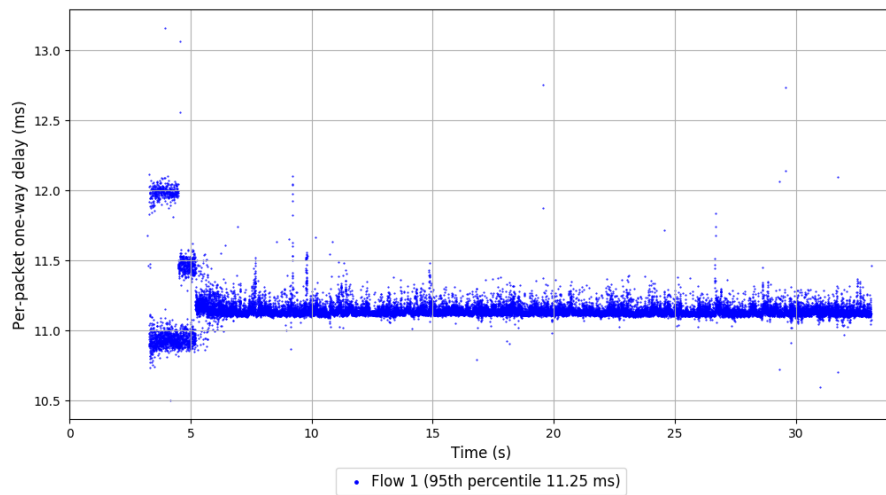
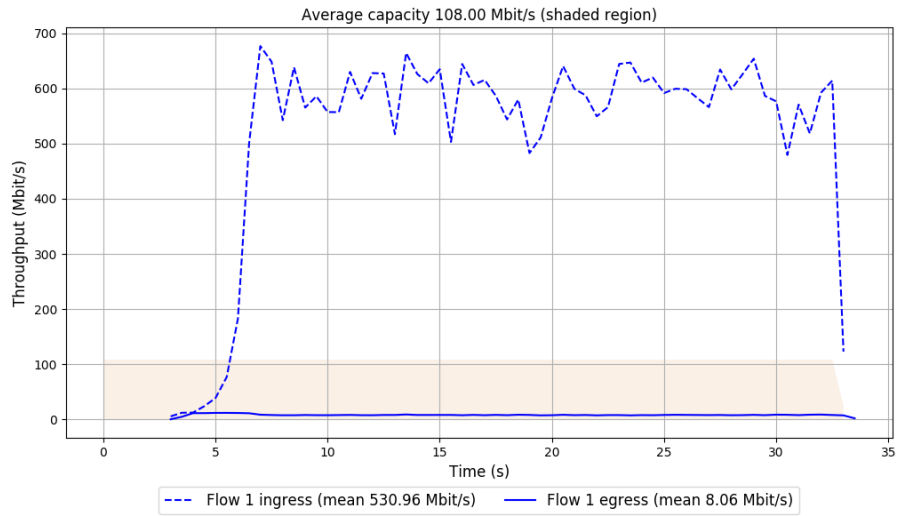
-- Flow 1:

Average throughput: 8.06 Mbit/s

95th percentile per-packet one-way delay: 11.248 ms

Loss rate: 98.48%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2020-04-16 08:48:00

End at: 2020-04-16 08:48:30

Below is generated by plot.py at 2020-04-16 09:01:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 7.88 Mbit/s (7.3% utilization)

95th percentile per-packet one-way delay: 11.250 ms

Loss rate: 98.48%

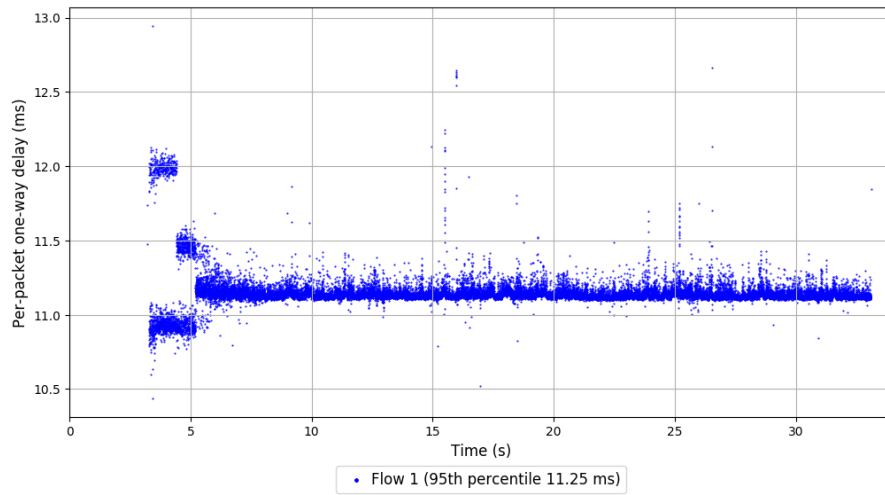
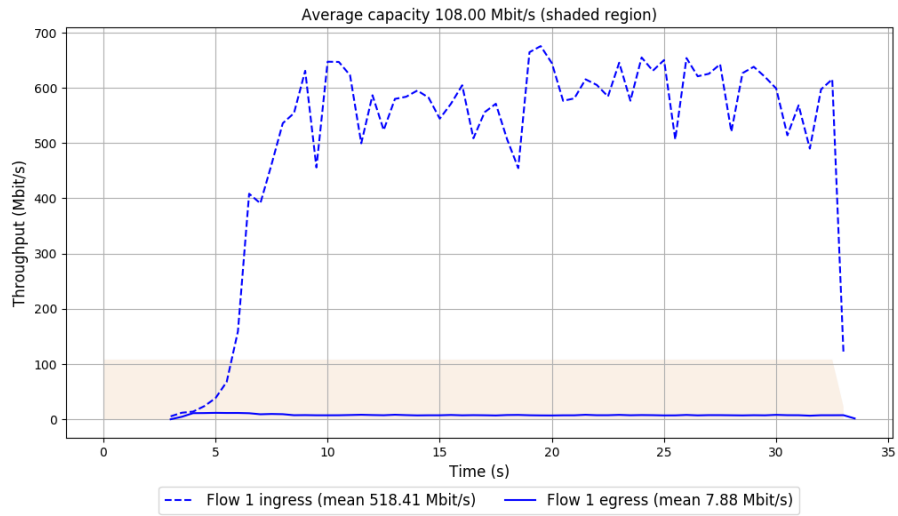
-- Flow 1:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 11.250 ms

Loss rate: 98.48%

Run 3: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2020-04-16 08:12:31

End at: 2020-04-16 08:13:01

Below is generated by plot.py at 2020-04-16 09:01:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 4.02 Mbit/s (3.7% utilization)

95th percentile per-packet one-way delay: 12.131 ms

Loss rate: 8.32%

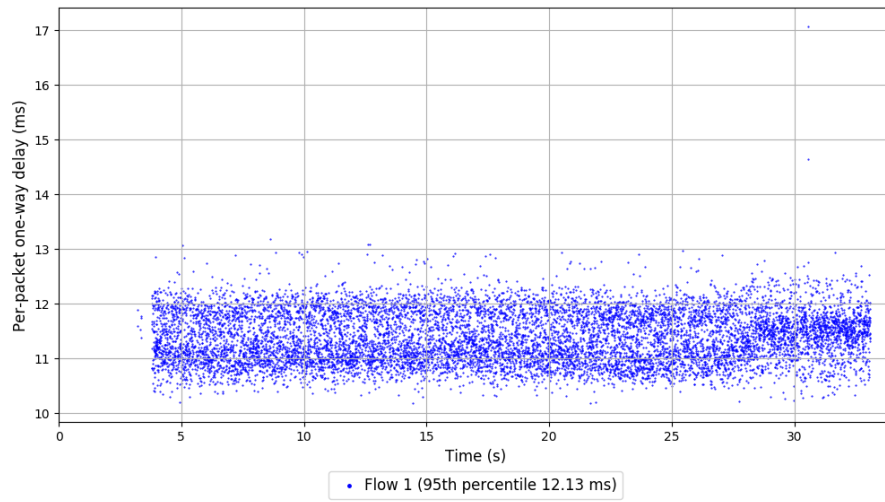
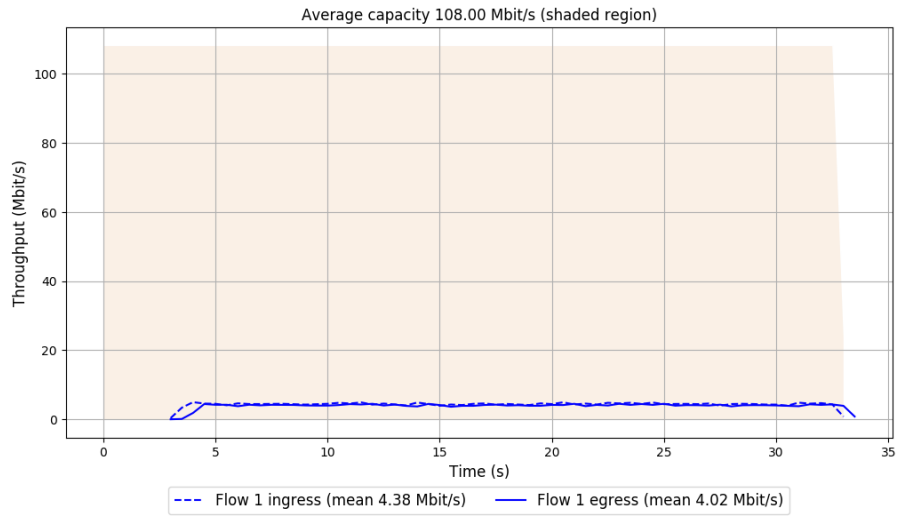
-- Flow 1:

Average throughput: 4.02 Mbit/s

95th percentile per-packet one-way delay: 12.131 ms

Loss rate: 8.32%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2020-04-16 08:27:10

End at: 2020-04-16 08:27:40

Below is generated by plot.py at 2020-04-16 09:01:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 4.11 Mbit/s (3.8% utilization)

95th percentile per-packet one-way delay: 12.077 ms

Loss rate: 7.83%

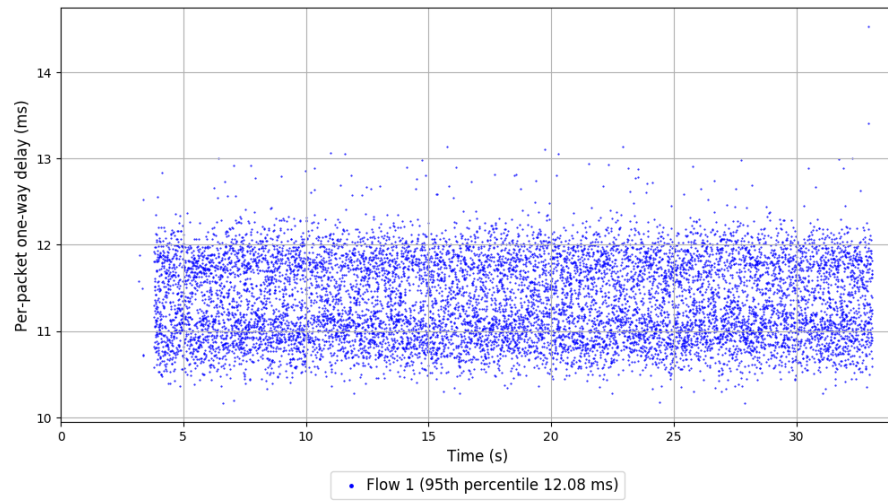
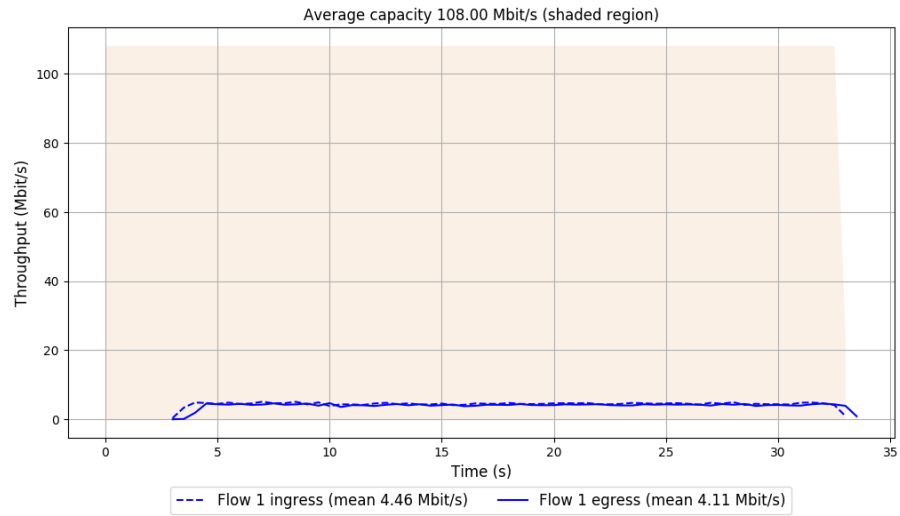
-- Flow 1:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 12.077 ms

Loss rate: 7.83%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2020-04-16 08:41:58

End at: 2020-04-16 08:42:28

Below is generated by plot.py at 2020-04-16 09:01:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 3.88 Mbit/s (3.6% utilization)

95th percentile per-packet one-way delay: 12.114 ms

Loss rate: 8.18%

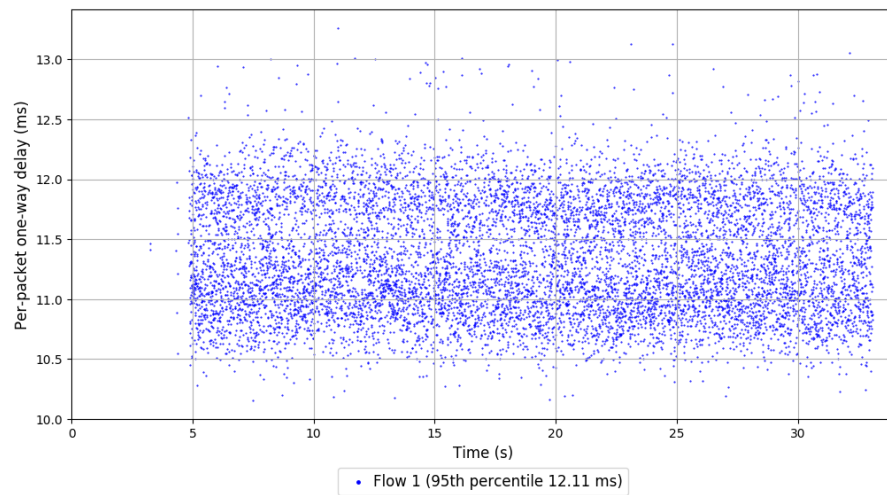
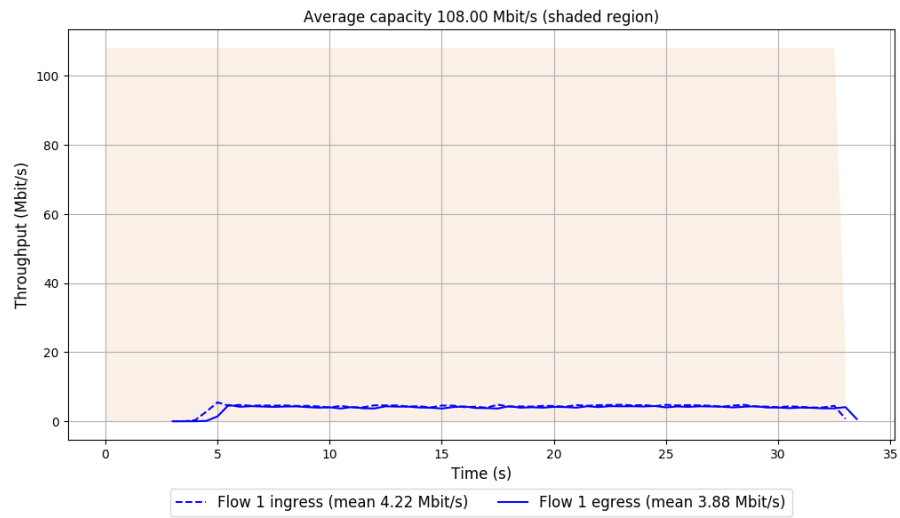
-- Flow 1:

Average throughput: 3.88 Mbit/s

95th percentile per-packet one-way delay: 12.114 ms

Loss rate: 8.18%

Run 3: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2020-04-16 08:17:57

End at: 2020-04-16 08:18:27

Below is generated by plot.py at 2020-04-16 09:01:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 0.21 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 11.799 ms

Loss rate: 0.00%

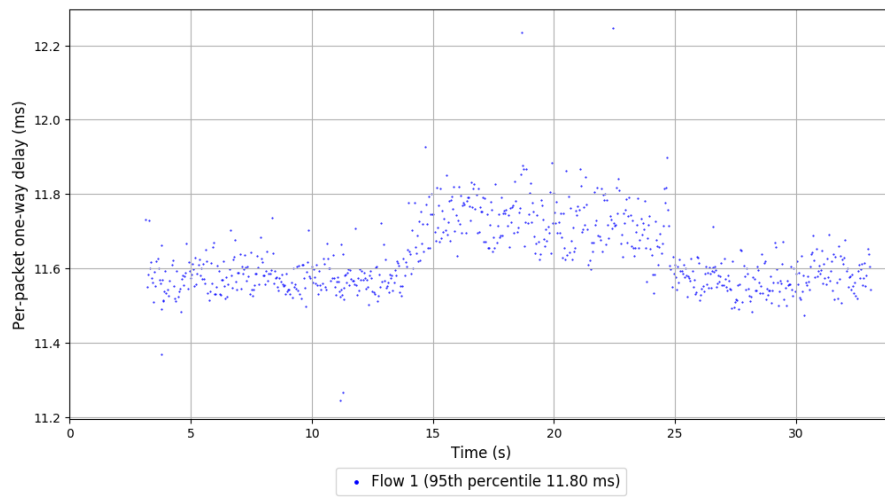
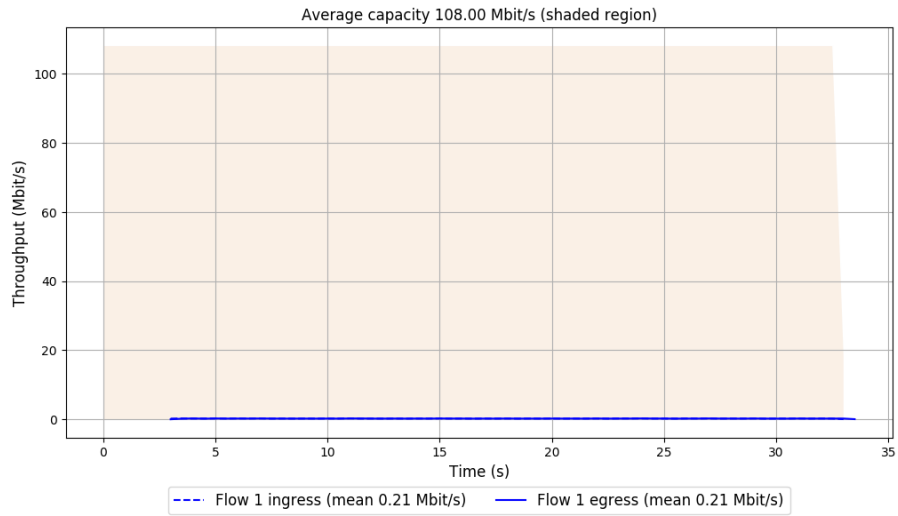
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 11.799 ms

Loss rate: 0.00%

Run 1: Report of SCReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2020-04-16 08:32:36

End at: 2020-04-16 08:33:06

Below is generated by plot.py at 2020-04-16 09:01:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 0.21 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 11.646 ms

Loss rate: 0.13%

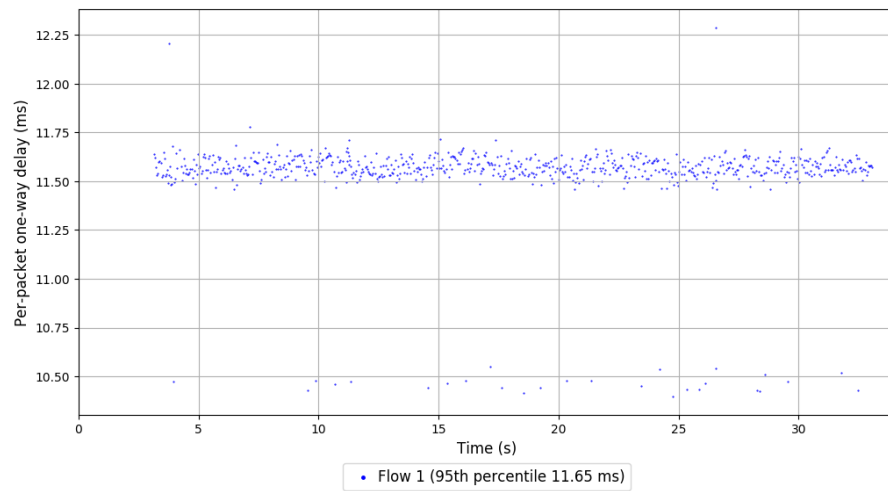
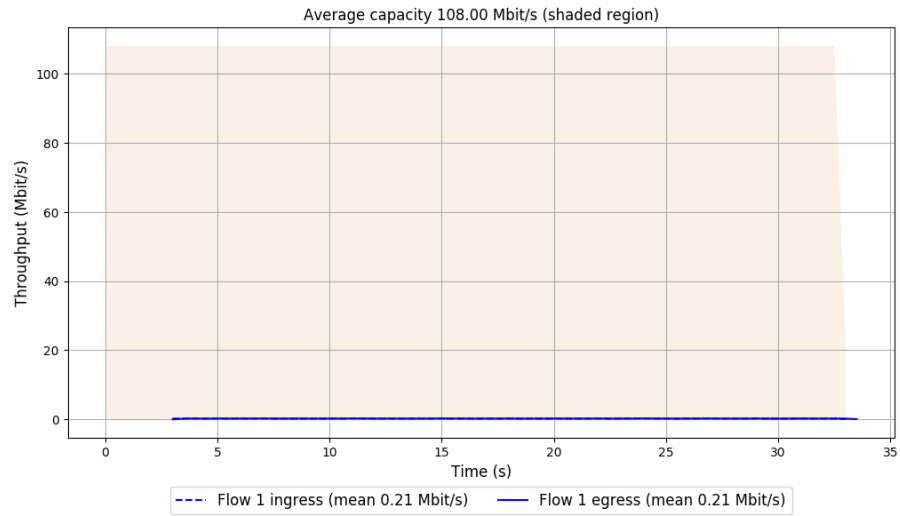
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 11.646 ms

Loss rate: 0.13%

Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2020-04-16 08:47:23

End at: 2020-04-16 08:47:53

Below is generated by plot.py at 2020-04-16 09:01:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 0.21 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 11.650 ms

Loss rate: 0.00%

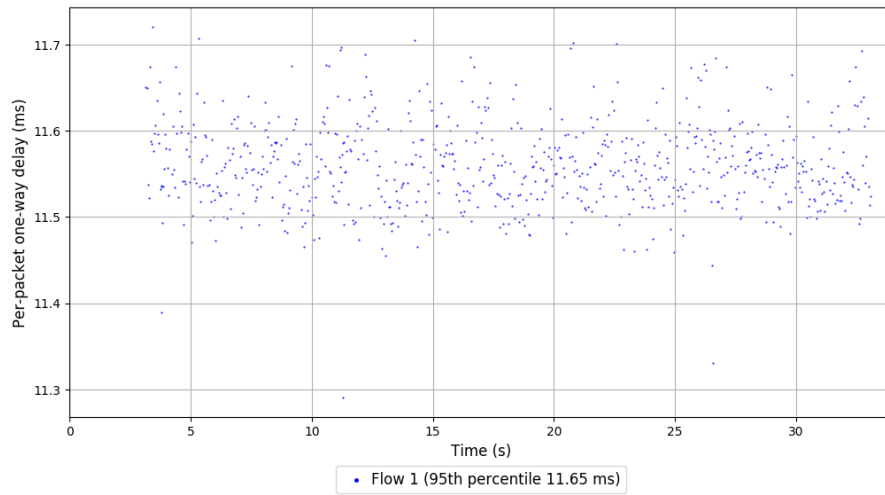
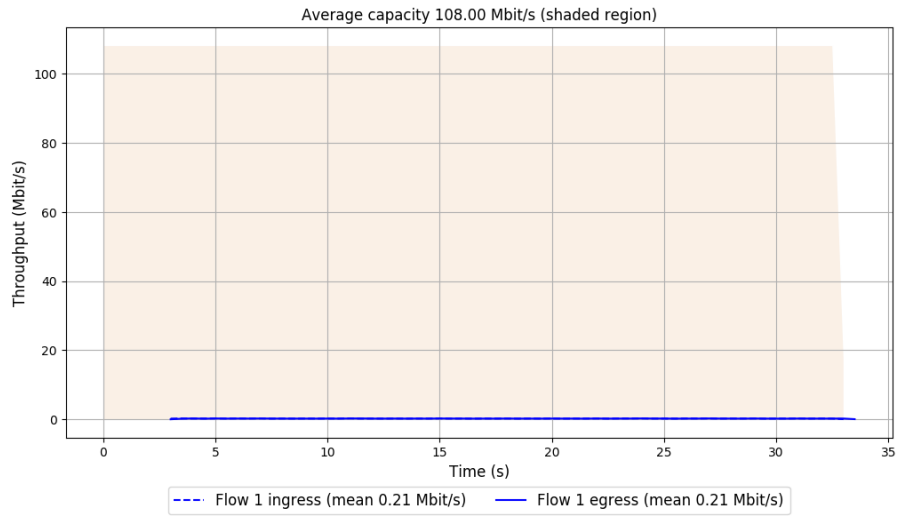
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 11.650 ms

Loss rate: 0.00%

Run 3: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2020-04-16 08:13:08

End at: 2020-04-16 08:13:38

Below is generated by plot.py at 2020-04-16 09:01:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 0.47 Mbit/s (0.4% utilization)

95th percentile per-packet one-way delay: 11.628 ms

Loss rate: 10.10%

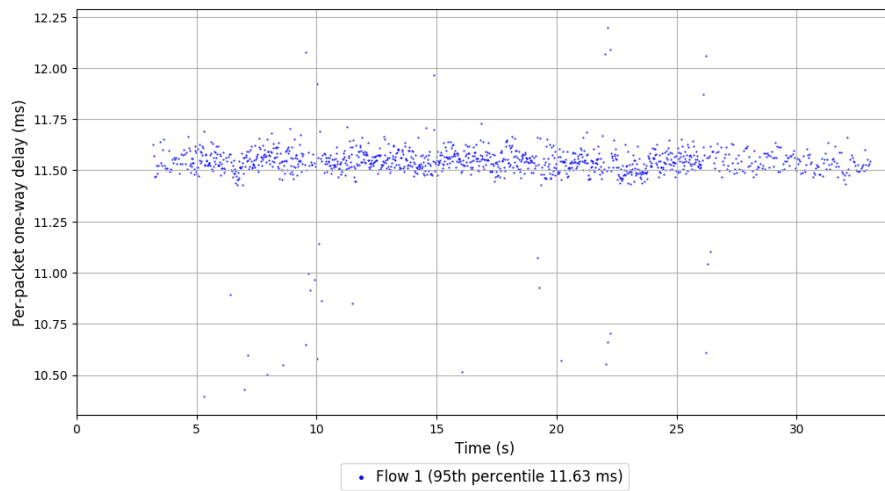
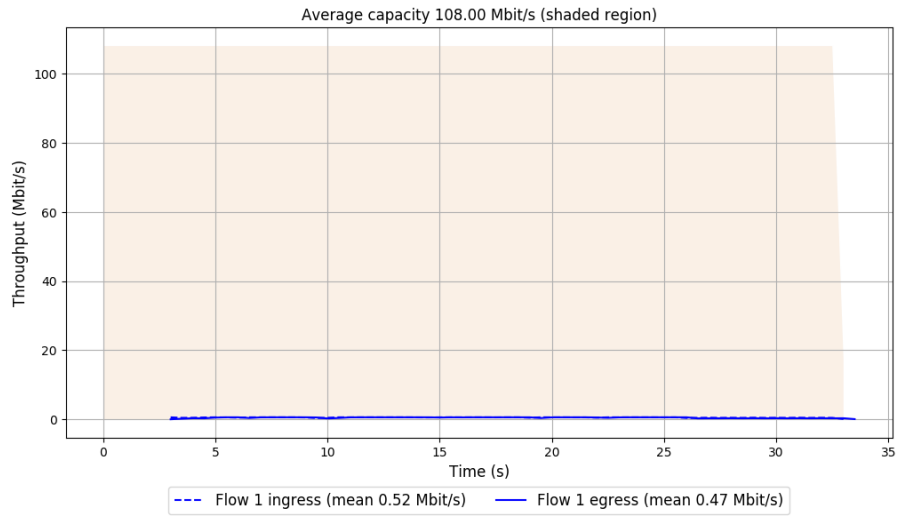
-- Flow 1:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 11.628 ms

Loss rate: 10.10%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2020-04-16 08:27:46

End at: 2020-04-16 08:28:16

Below is generated by plot.py at 2020-04-16 09:01:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 0.51 Mbit/s (0.5% utilization)

95th percentile per-packet one-way delay: 11.607 ms

Loss rate: 5.48%

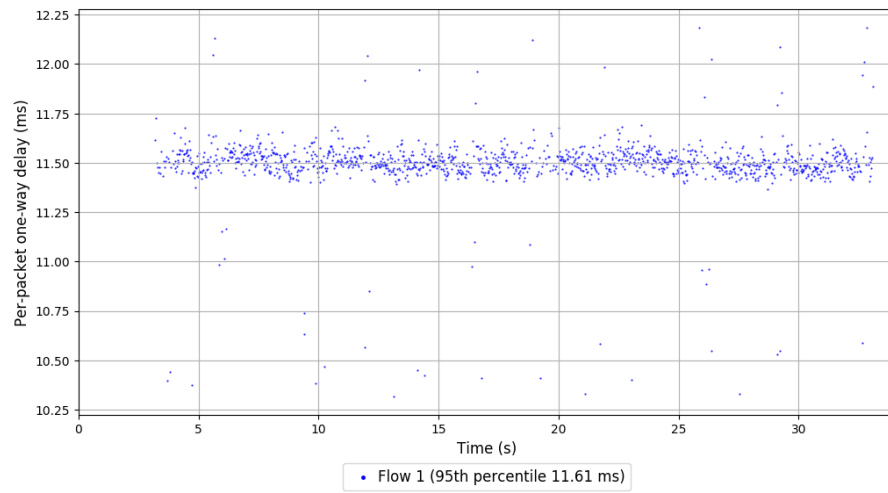
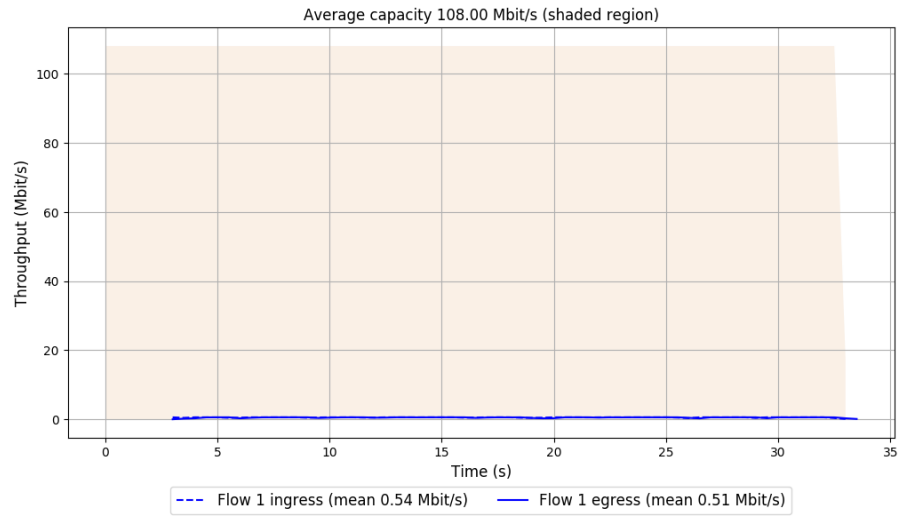
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 11.607 ms

Loss rate: 5.48%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2020-04-16 08:42:34

End at: 2020-04-16 08:43:04

Below is generated by plot.py at 2020-04-16 09:01:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 0.46 Mbit/s (0.4% utilization)

95th percentile per-packet one-way delay: 11.628 ms

Loss rate: 10.32%

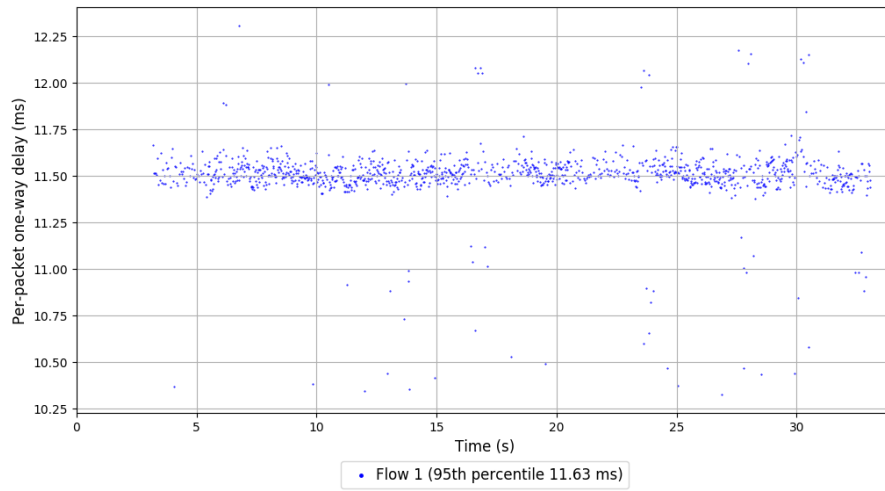
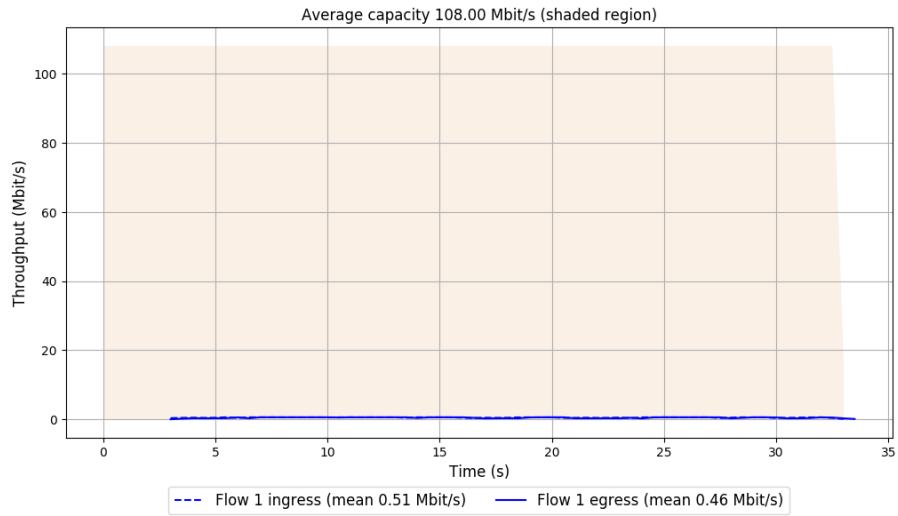
-- Flow 1:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 11.628 ms

Loss rate: 10.32%

Run 3: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2020-04-16 08:21:06

End at: 2020-04-16 08:21:36

Below is generated by plot.py at 2020-04-16 09:01:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

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

95th percentile per-packet one-way delay: 11.673 ms

Loss rate: 51.91%

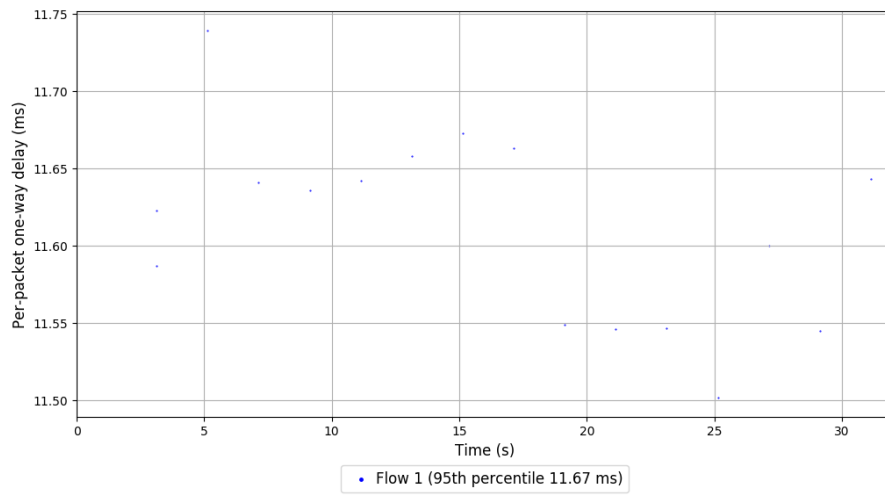
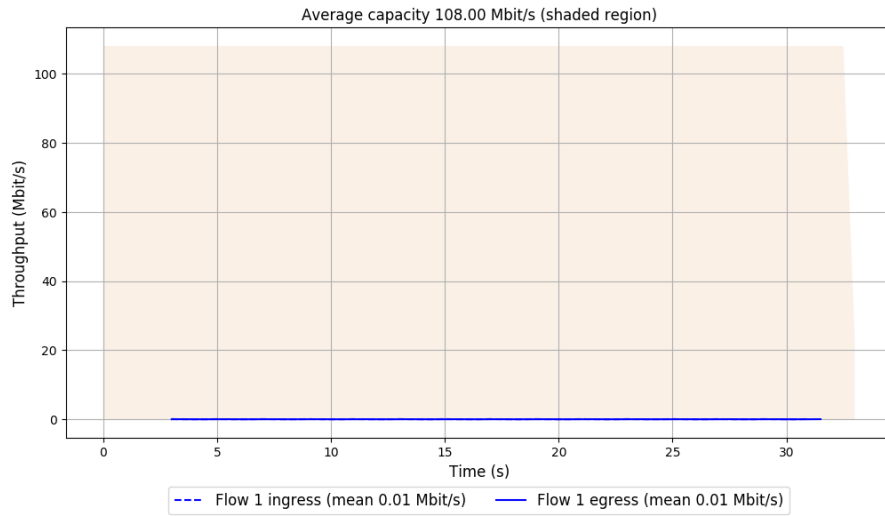
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 11.673 ms

Loss rate: 51.91%

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



Run 2: Statistics of TaoVA-100x

Start at: 2020-04-16 08:35:52

End at: 2020-04-16 08:36:22

Below is generated by plot.py at 2020-04-16 09:01:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

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

95th percentile per-packet one-way delay: 11.688 ms

Loss rate: 48.72%

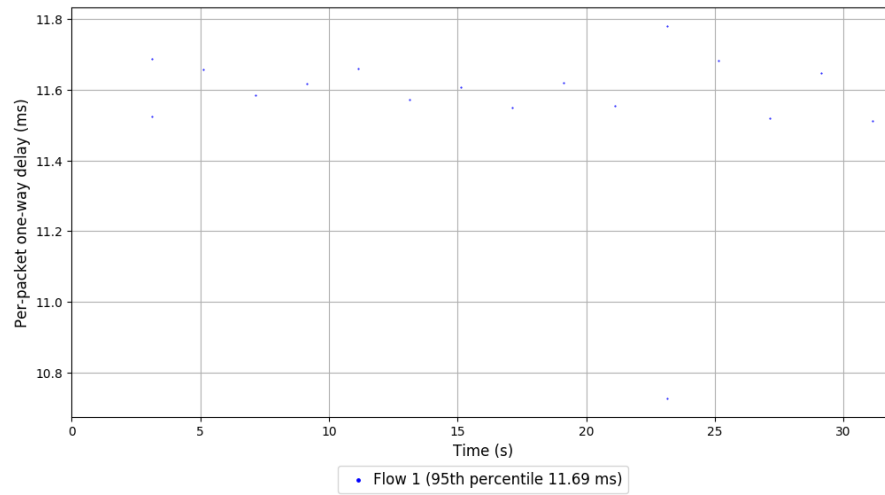
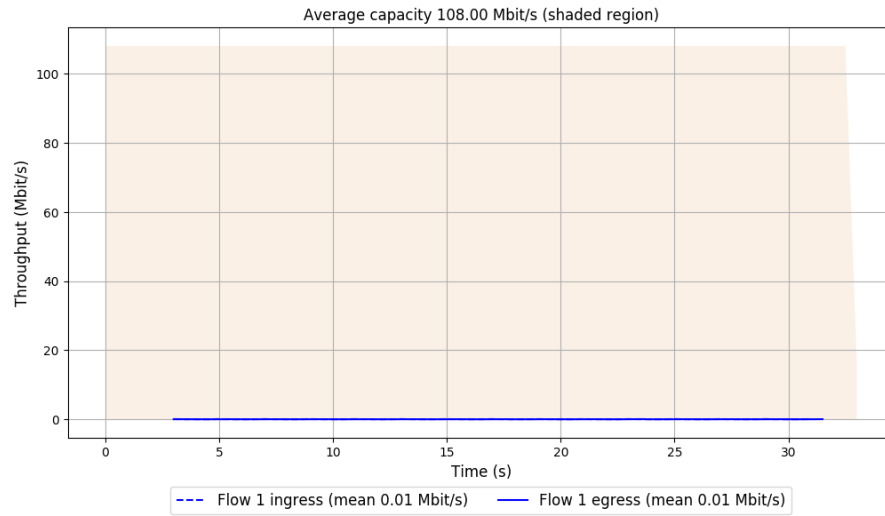
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 11.688 ms

Loss rate: 48.72%

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



Run 3: Statistics of TaoVA-100x

Start at: 2020-04-16 08:50:40

End at: 2020-04-16 08:51:10

Below is generated by plot.py at 2020-04-16 09:01:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

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

95th percentile per-packet one-way delay: 11.795 ms

Loss rate: 51.91%

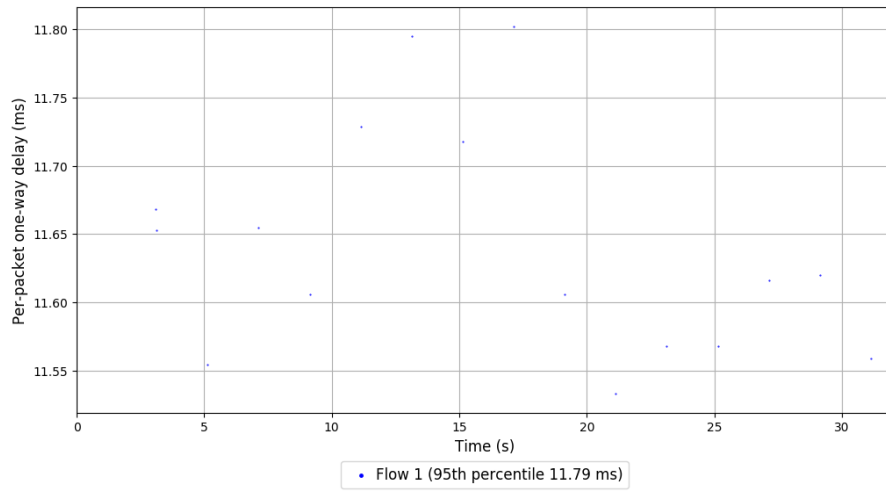
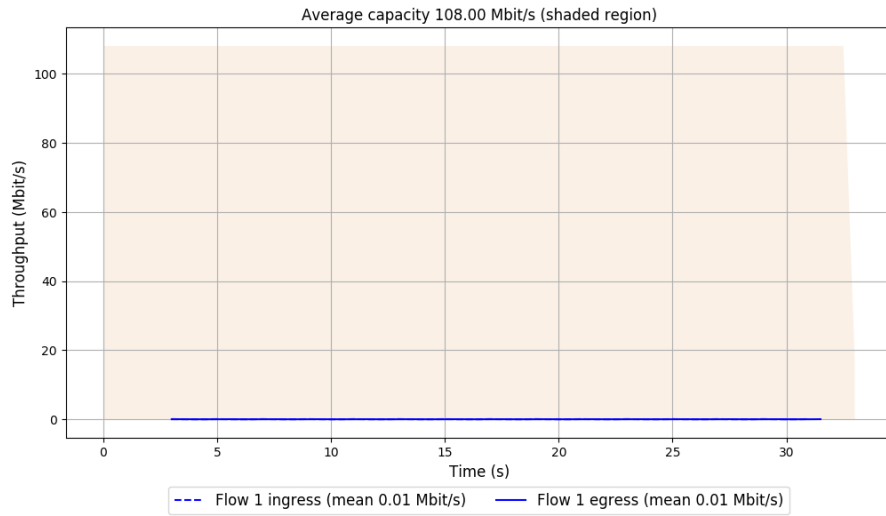
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 11.795 ms

Loss rate: 51.91%

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



Run 1: Statistics of TCP Vegas

Start at: 2020-04-16 08:17:21

End at: 2020-04-16 08:17:51

Below is generated by plot.py at 2020-04-16 09:01:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 1.11 Mbit/s (1.0% utilization)

95th percentile per-packet one-way delay: 11.786 ms

Loss rate: 9.97%

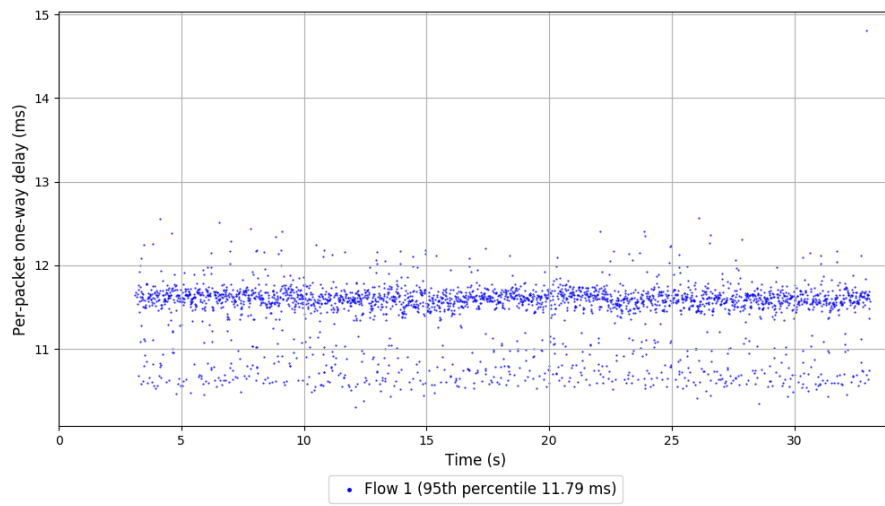
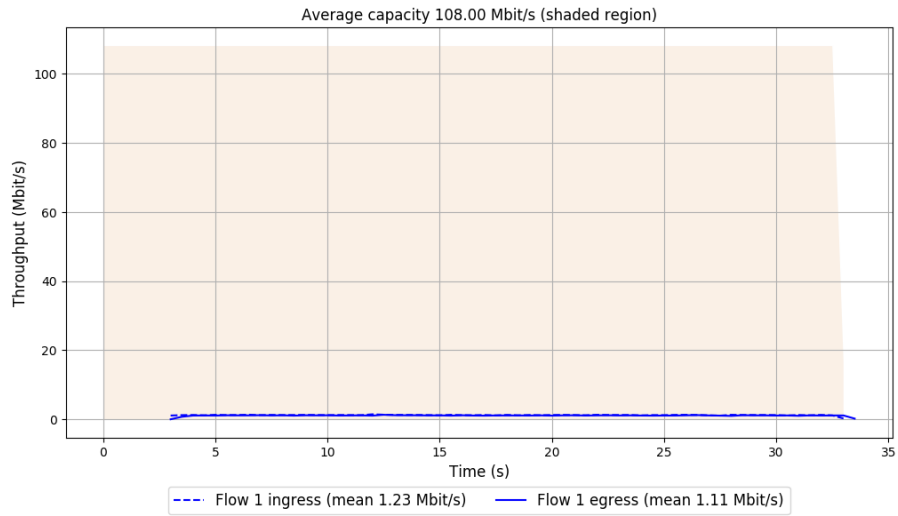
-- Flow 1:

Average throughput: 1.11 Mbit/s

95th percentile per-packet one-way delay: 11.786 ms

Loss rate: 9.97%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2020-04-16 08:31:59

End at: 2020-04-16 08:32:30

Below is generated by plot.py at 2020-04-16 09:01:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 1.11 Mbit/s (1.0% utilization)

95th percentile per-packet one-way delay: 11.814 ms

Loss rate: 9.85%

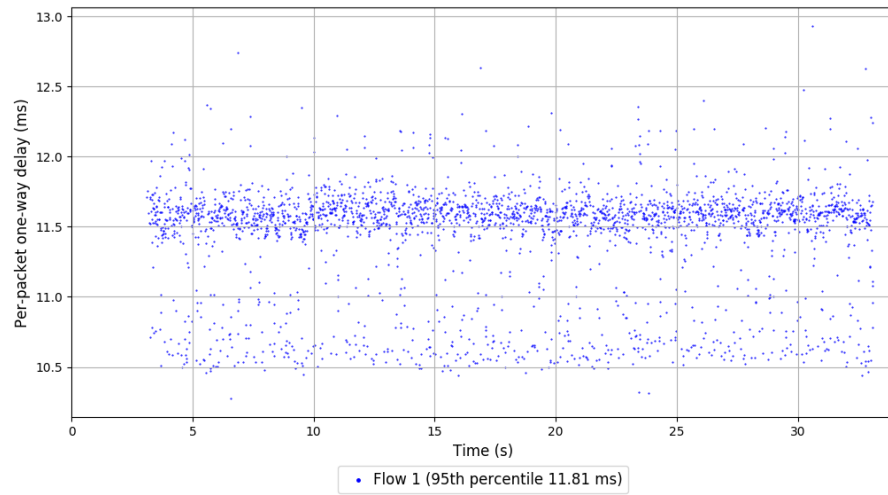
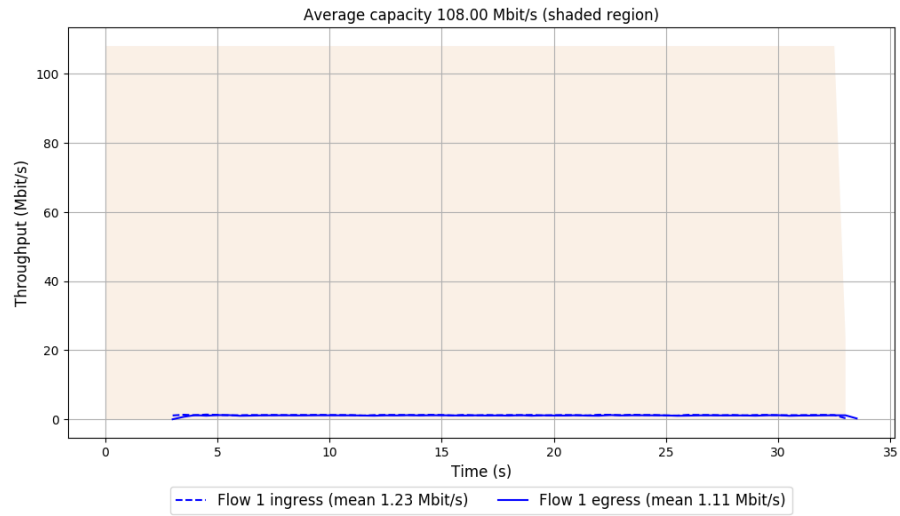
-- Flow 1:

Average throughput: 1.11 Mbit/s

95th percentile per-packet one-way delay: 11.814 ms

Loss rate: 9.85%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2020-04-16 08:46:47

End at: 2020-04-16 08:47:17

Below is generated by plot.py at 2020-04-16 09:01:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 1.09 Mbit/s (1.0% utilization)

95th percentile per-packet one-way delay: 11.803 ms

Loss rate: 9.93%

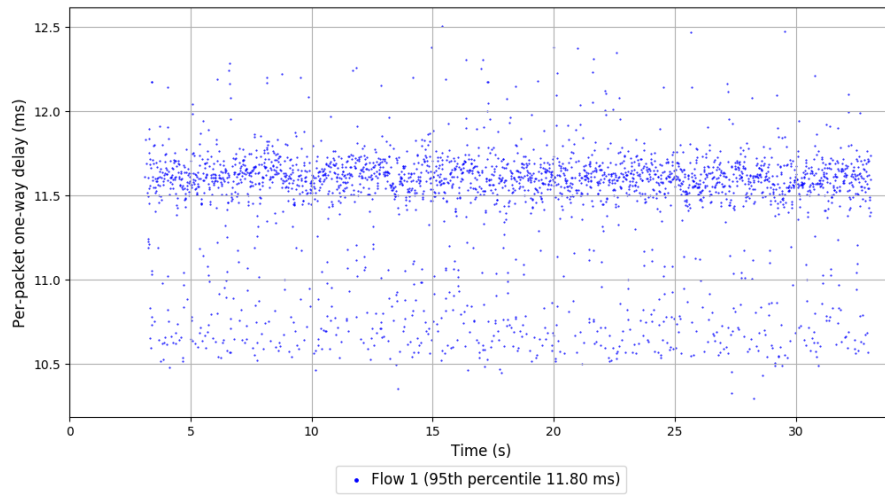
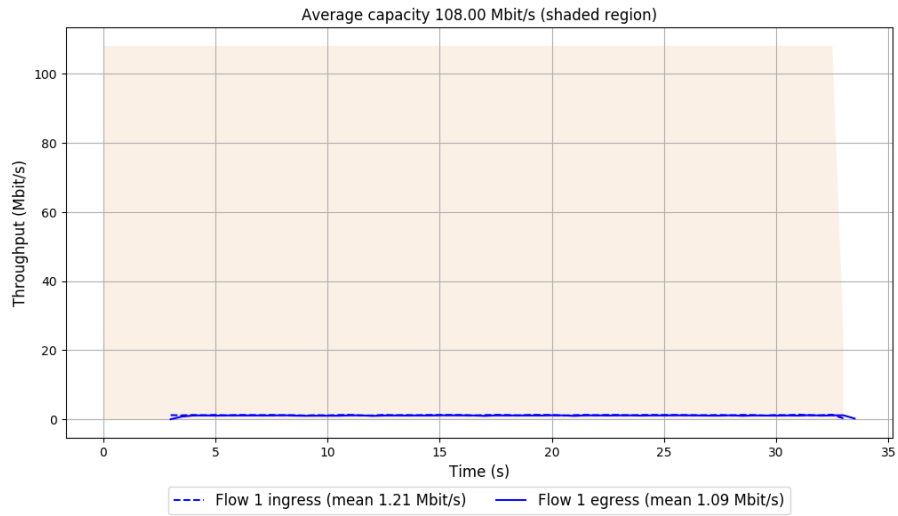
-- Flow 1:

Average throughput: 1.09 Mbit/s

95th percentile per-packet one-way delay: 11.803 ms

Loss rate: 9.93%

Run 3: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2020-04-16 08:24:43

End at: 2020-04-16 08:25:13

Below is generated by plot.py at 2020-04-16 09:01:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 2.06 Mbit/s (1.9% utilization)

95th percentile per-packet one-way delay: 12.240 ms

Loss rate: 97.81%

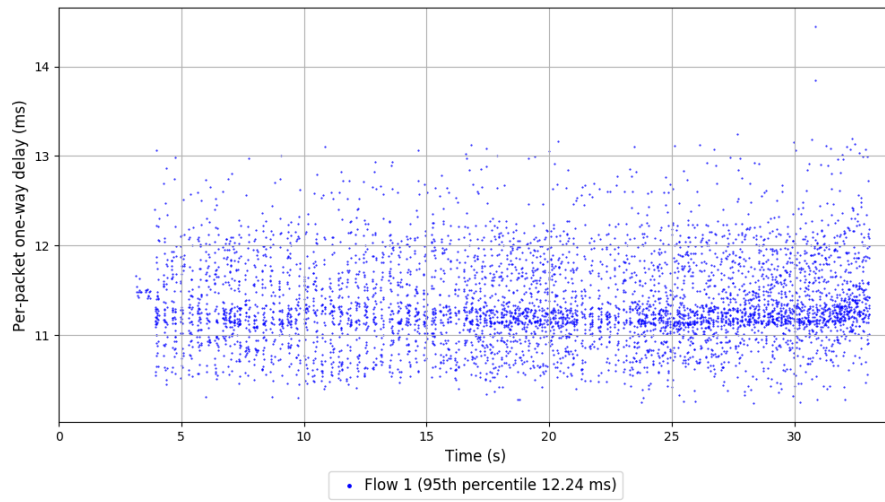
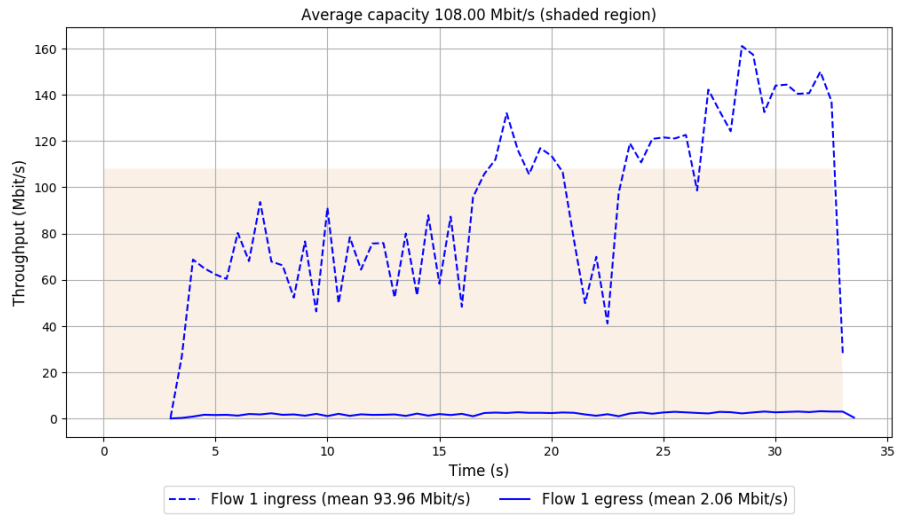
-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 12.240 ms

Loss rate: 97.81%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2020-04-16 08:39:30

End at: 2020-04-16 08:40:00

Below is generated by plot.py at 2020-04-16 09:01:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 2.82 Mbit/s (2.6% utilization)

95th percentile per-packet one-way delay: 12.118 ms

Loss rate: 98.36%

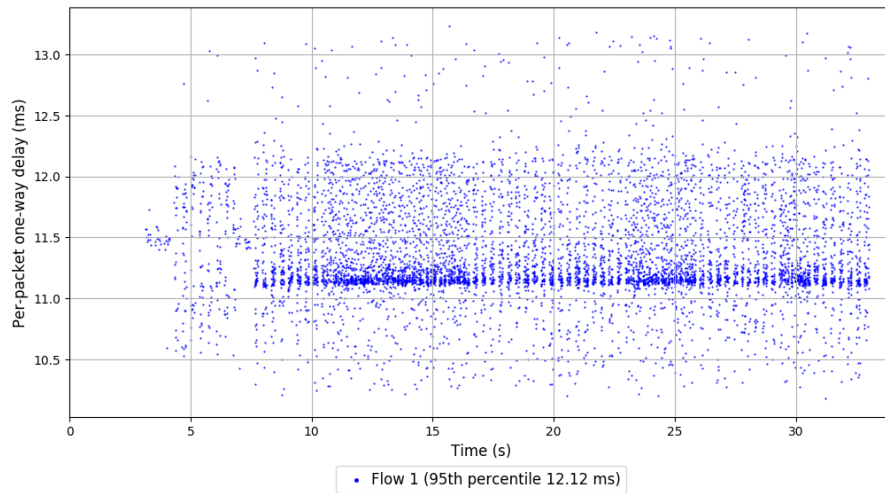
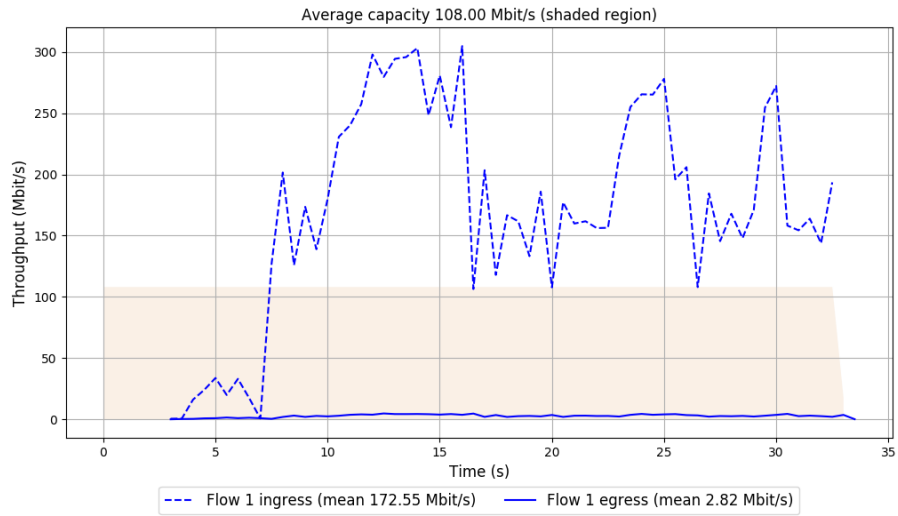
-- Flow 1:

Average throughput: 2.82 Mbit/s

95th percentile per-packet one-way delay: 12.118 ms

Loss rate: 98.36%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2020-04-16 08:54:18

End at: 2020-04-16 08:54:48

Below is generated by plot.py at 2020-04-16 09:01:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 3.54 Mbit/s (3.3% utilization)

95th percentile per-packet one-way delay: 12.009 ms

Loss rate: 98.47%

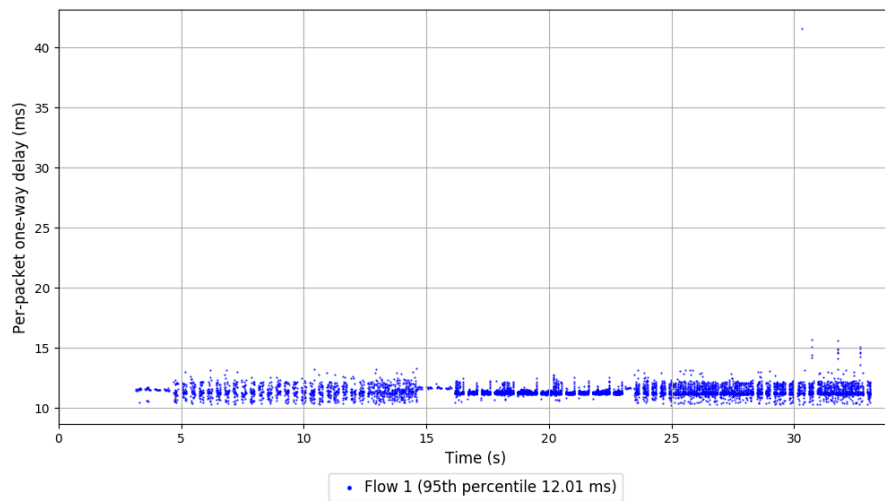
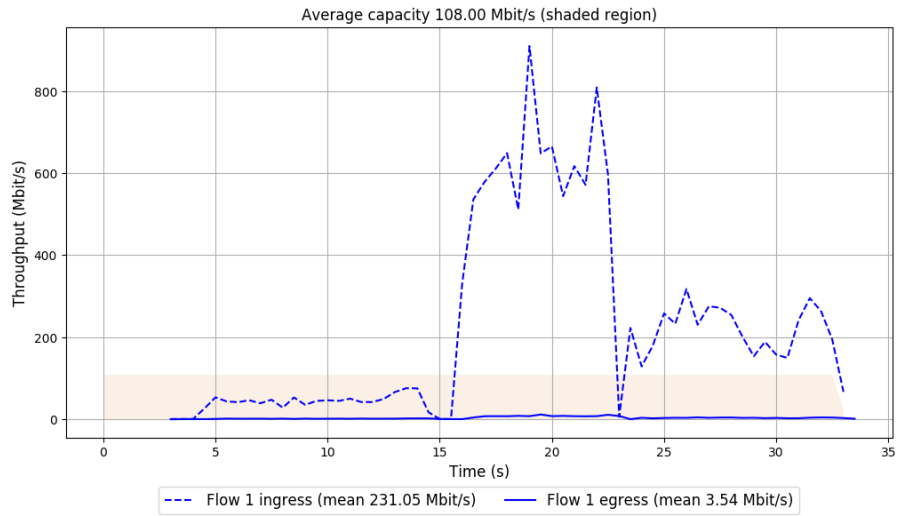
-- Flow 1:

Average throughput: 3.54 Mbit/s

95th percentile per-packet one-way delay: 12.009 ms

Loss rate: 98.47%

Run 3: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2020-04-16 08:22:54

End at: 2020-04-16 08:23:24

Below is generated by plot.py at 2020-04-16 09:01:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 6.96 Mbit/s (6.4% utilization)

95th percentile per-packet one-way delay: 12.020 ms

Loss rate: 2.25%

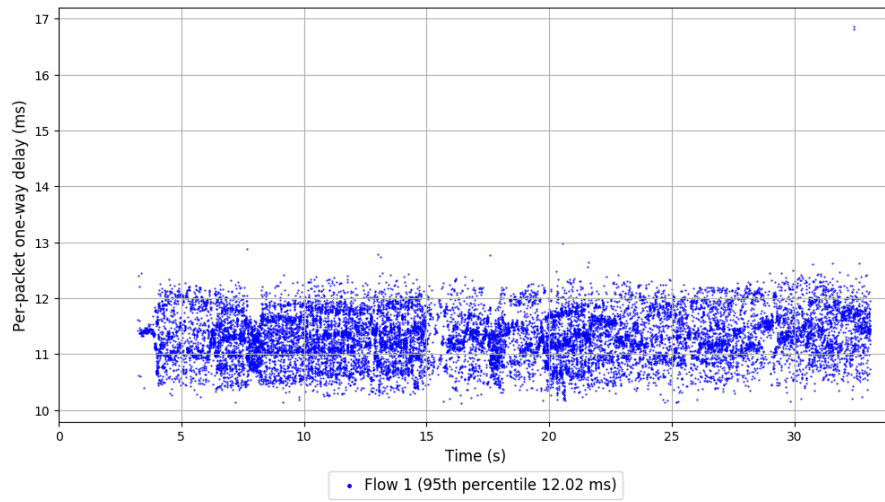
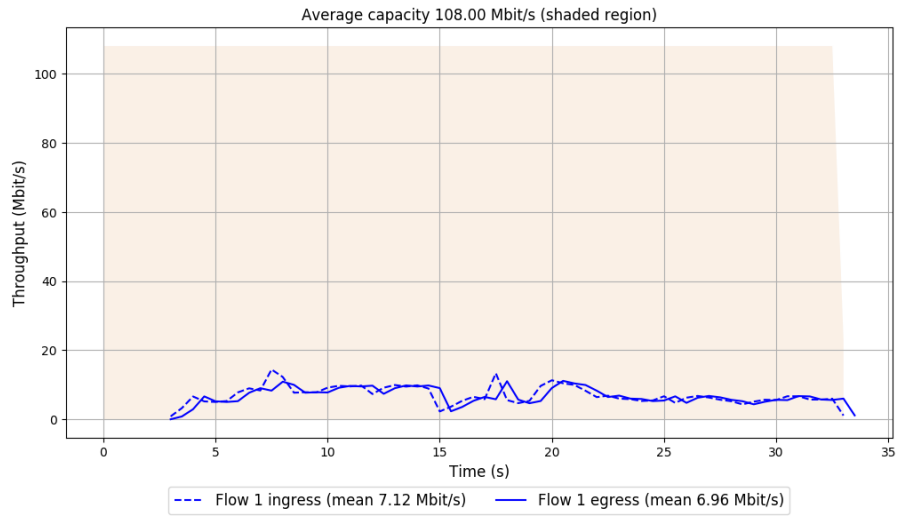
-- Flow 1:

Average throughput: 6.96 Mbit/s

95th percentile per-packet one-way delay: 12.020 ms

Loss rate: 2.25%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2020-04-16 08:37:41

End at: 2020-04-16 08:38:11

Below is generated by plot.py at 2020-04-16 09:01:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 6.50 Mbit/s (6.0% utilization)

95th percentile per-packet one-way delay: 12.013 ms

Loss rate: 1.13%

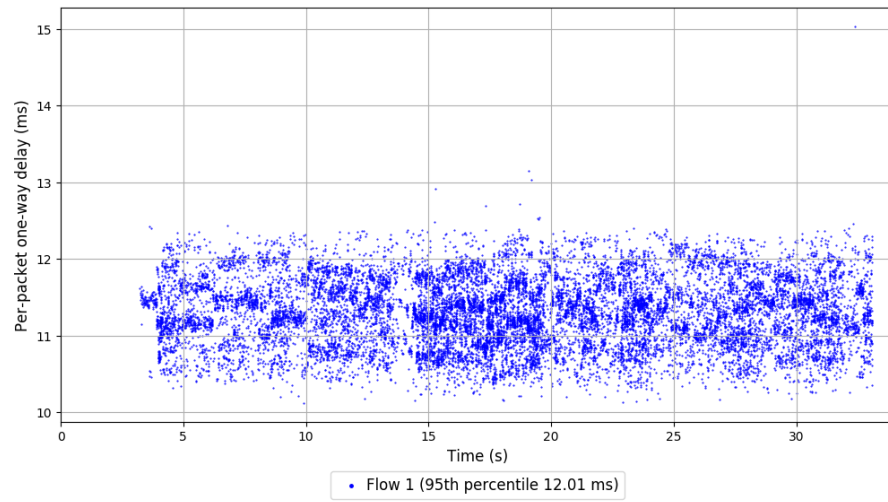
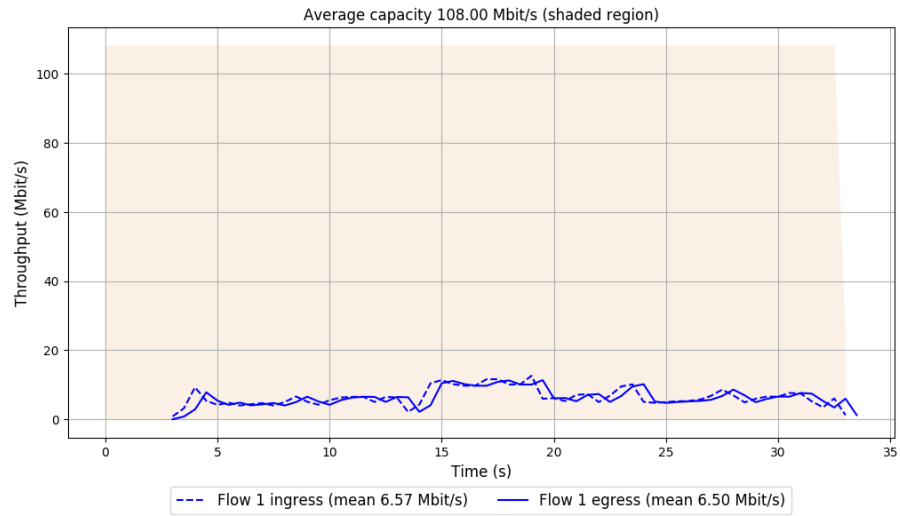
-- Flow 1:

Average throughput: 6.50 Mbit/s

95th percentile per-packet one-way delay: 12.013 ms

Loss rate: 1.13%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2020-04-16 08:52:28

End at: 2020-04-16 08:52:59

Below is generated by plot.py at 2020-04-16 09:01:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 108.00 Mbit/s

Average throughput: 7.45 Mbit/s (6.9% utilization)

95th percentile per-packet one-way delay: 11.995 ms

Loss rate: 0.58%

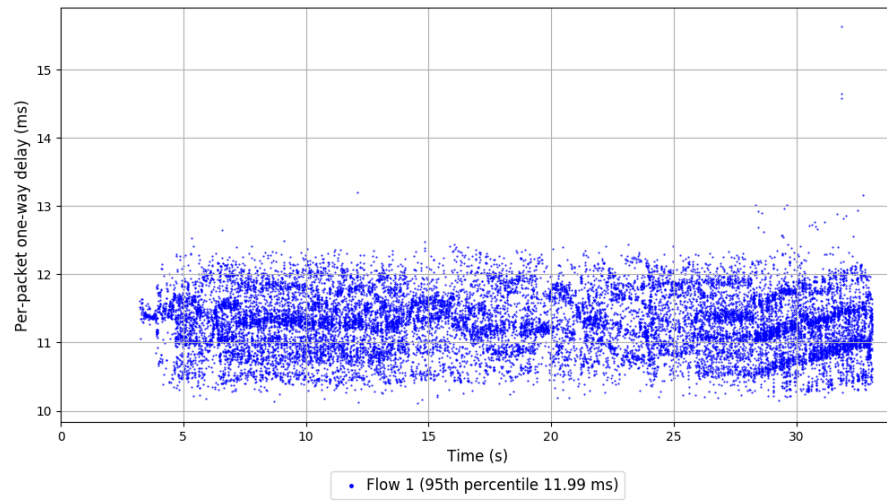
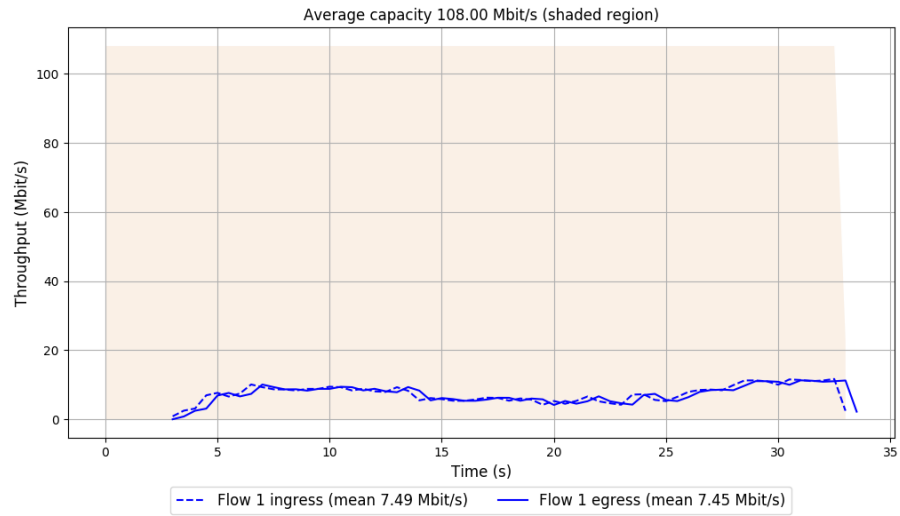
-- Flow 1:

Average throughput: 7.45 Mbit/s

95th percentile per-packet one-way delay: 11.995 ms

Loss rate: 0.58%

Run 3: Report of PCC-Vivace — Data Link

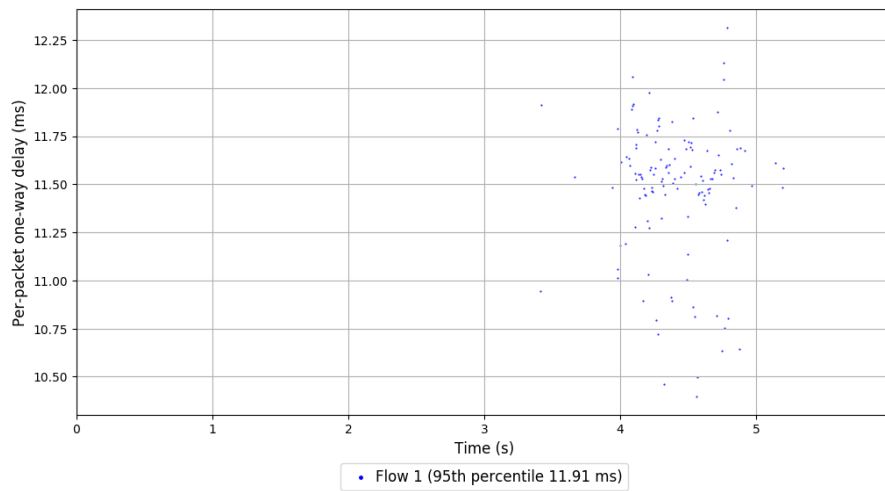
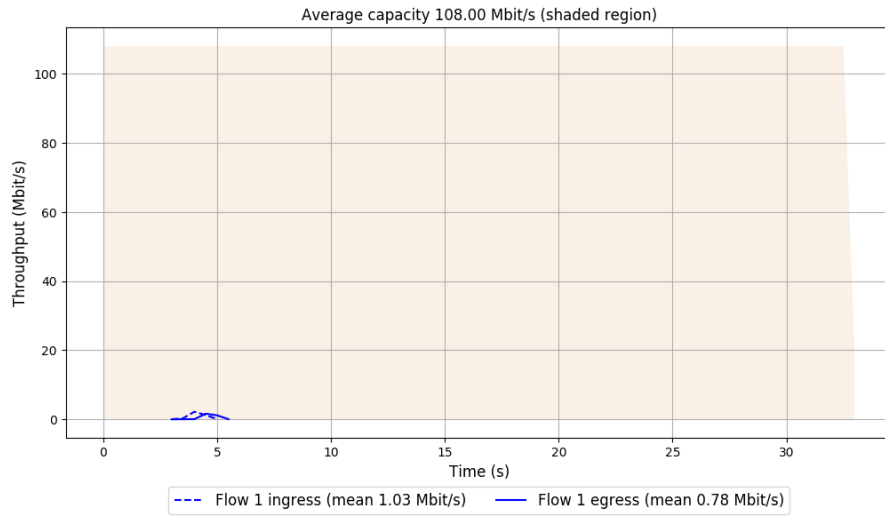


Run 1: Statistics of WebRTC media

Start at: 2020-04-16 08:15:32

End at: 2020-04-16 08:16:02

Run 1: Report of WebRTC media — Data Link

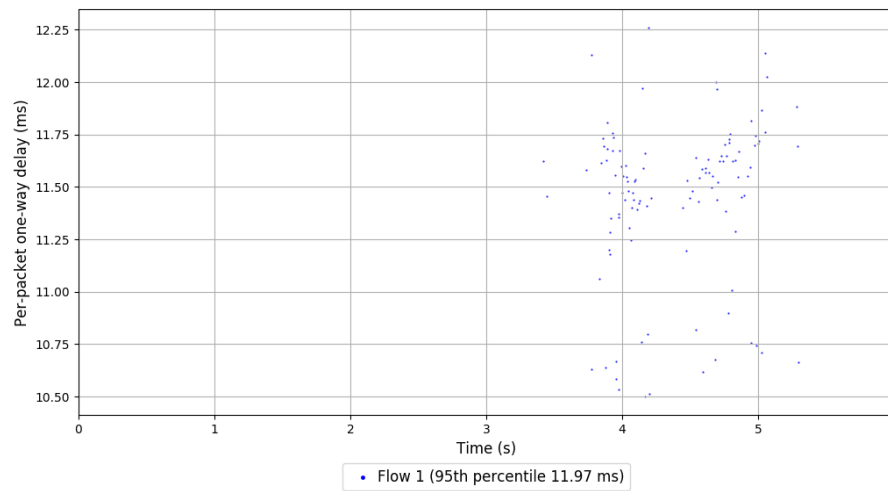
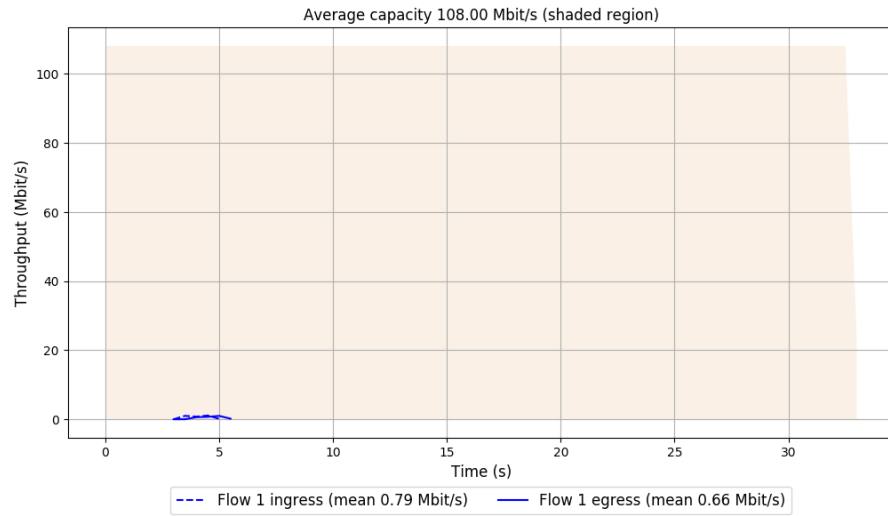


Run 2: Statistics of WebRTC media

Start at: 2020-04-16 08:30:11

End at: 2020-04-16 08:30:41

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2020-04-16 08:44:59

End at: 2020-04-16 08:45:29

Run 3: Report of WebRTC media — Data Link

