

Pantheon Report

Generated at 2020-04-16 09:48:59 (UTC).

Tested in mahimahi: mm-delay 30 mm-link 12mbps.trace 12mbps.trace
--uplink-queue=droptail --uplink-queue-args=bytes=30000

Repeated the test of 24 congestion control schemes 3 times.

Each test lasted for 30 seconds running 1 flow.

System info:

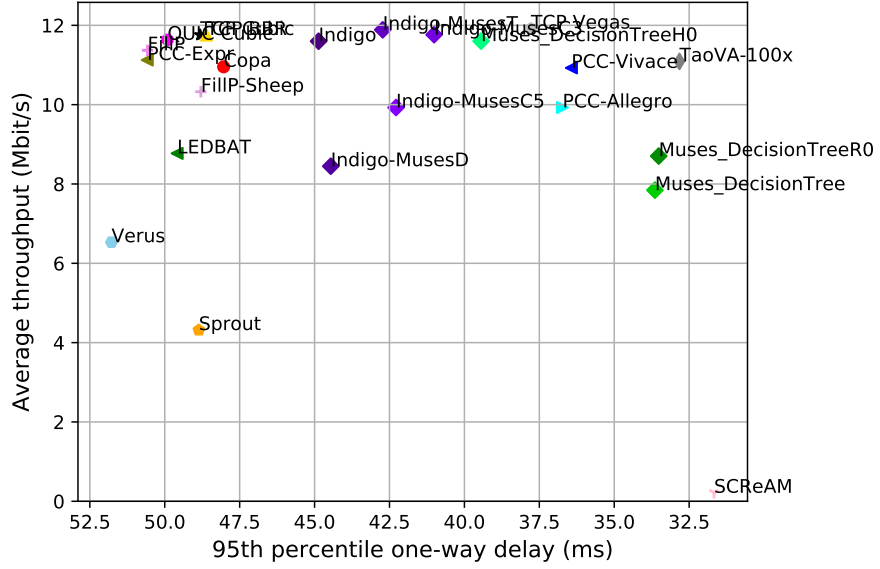
```
Linux 5.0.0-1031-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

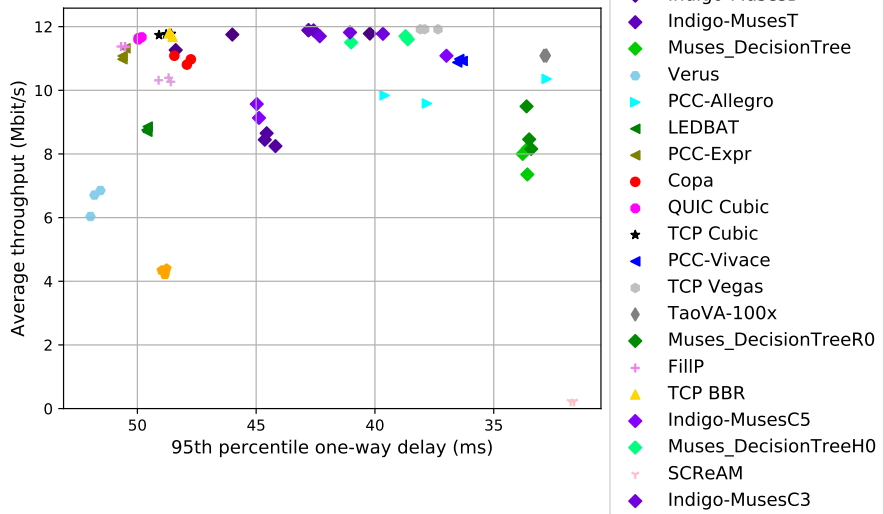
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
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

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



local test in mahimahi, 3 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate (%)
		flow 1	flow 1	flow 1
TCP BBR	3	11.76	48.61	2.06
Copa	3	10.96	48.04	1.26
TCP Cubic	3	11.76	48.82	0.30
FillP	3	11.37	50.57	2.80
FillP-Sheep	3	10.33	48.79	1.42
Indigo	3	11.60	44.87	5.60
Indigo-MusesC3	3	11.76	41.01	0.54
Indigo-MusesC5	3	9.93	42.28	0.85
Indigo-MusesD	3	8.45	44.46	2.50
Indigo-MusesT	3	11.89	42.73	0.31
LEDBAT	3	8.77	49.59	1.03
Muses_DecisionTree	3	7.85	33.64	0.72
Muses_DecisionTreeH0	3	11.60	39.44	0.62
Muses_DecisionTreeR0	3	8.70	33.52	0.67
PCC-Allegro	3	9.93	36.73	0.85
PCC-Expr	3	11.13	50.58	1.17
QUIC Cubic	3	11.64	49.91	0.36
SCReAM	3	0.21	31.67	0.13
Sprout	3	4.32	48.86	7.67
TaoVA-100x	3	11.09	32.82	0.72
TCP Vegas	3	11.92	37.78	0.27
Verus	3	6.53	51.78	90.81
PCC-Vivace	3	10.93	36.43	0.18
WebRTC media	0	N/A	N/A	N/A

Run 1: Statistics of TCP BBR

Start at: 2020-04-16 09:13:03

End at: 2020-04-16 09:13:33

Below is generated by plot.py at 2020-04-16 09:45:34

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.68 Mbit/s (97.3% utilization)

95th percentile per-packet one-way delay: 48.517 ms

Loss rate: 2.06%

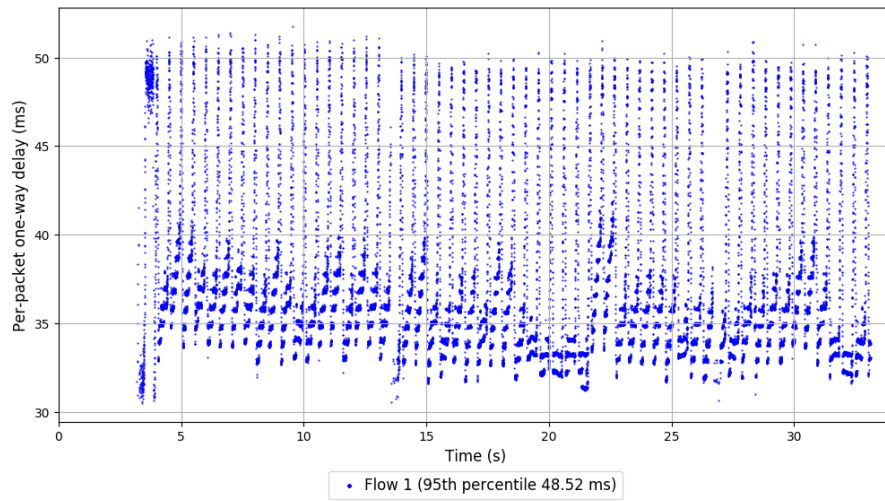
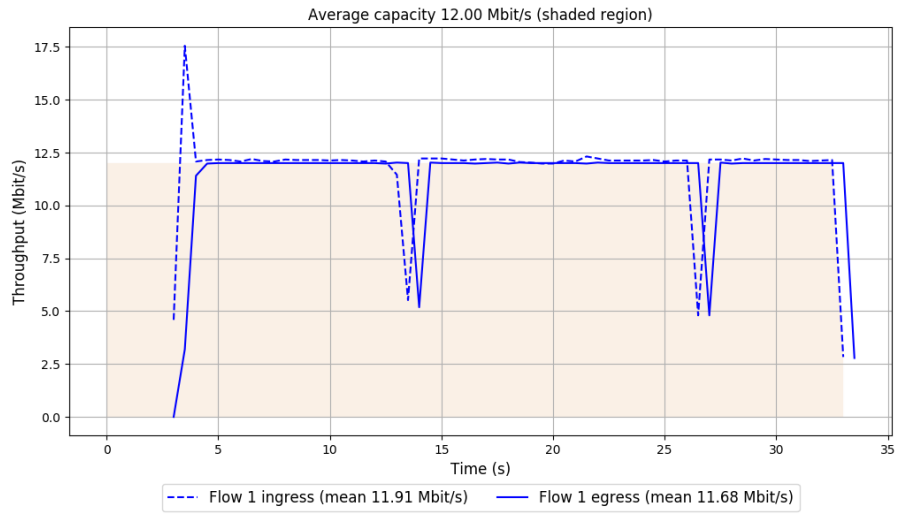
-- Flow 1:

Average throughput: 11.68 Mbit/s

95th percentile per-packet one-way delay: 48.517 ms

Loss rate: 2.06%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2020-04-16 09:27:13

End at: 2020-04-16 09:27:43

Below is generated by plot.py at 2020-04-16 09:45:35

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.80 Mbit/s (98.3% utilization)

95th percentile per-packet one-way delay: 48.628 ms

Loss rate: 2.11%

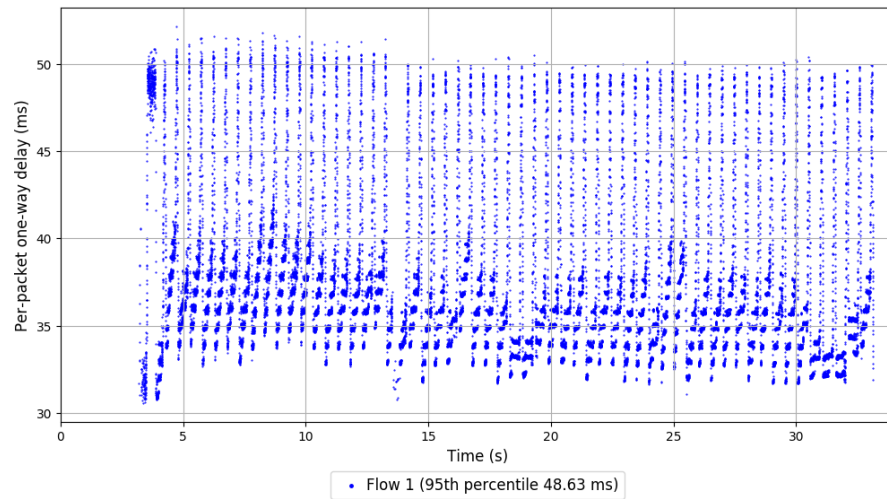
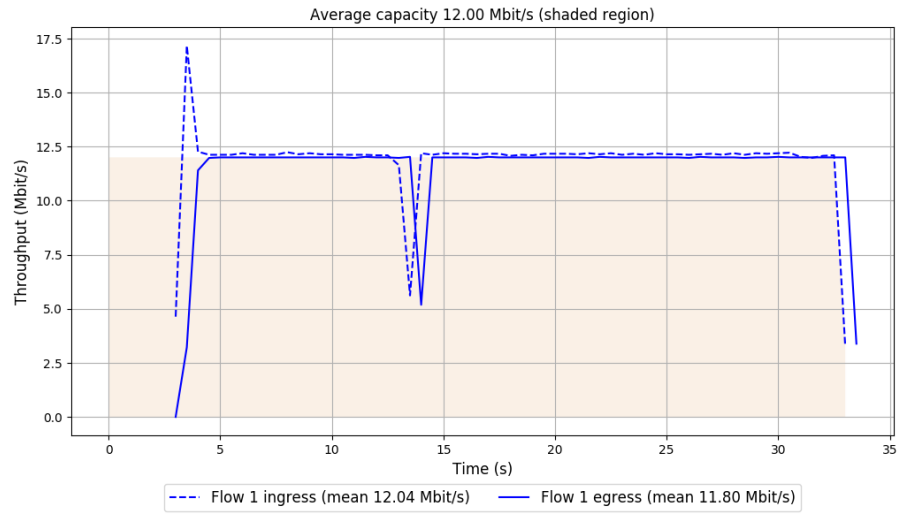
-- Flow 1:

Average throughput: 11.80 Mbit/s

95th percentile per-packet one-way delay: 48.628 ms

Loss rate: 2.11%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2020-04-16 09:41:21

End at: 2020-04-16 09:41:51

Below is generated by plot.py at 2020-04-16 09:45:35

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.79 Mbit/s (98.3% utilization)

95th percentile per-packet one-way delay: 48.672 ms

Loss rate: 2.00%

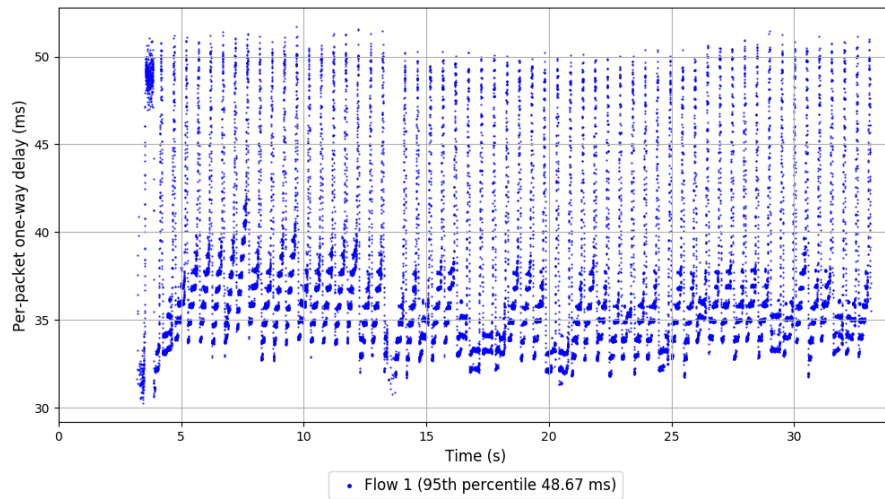
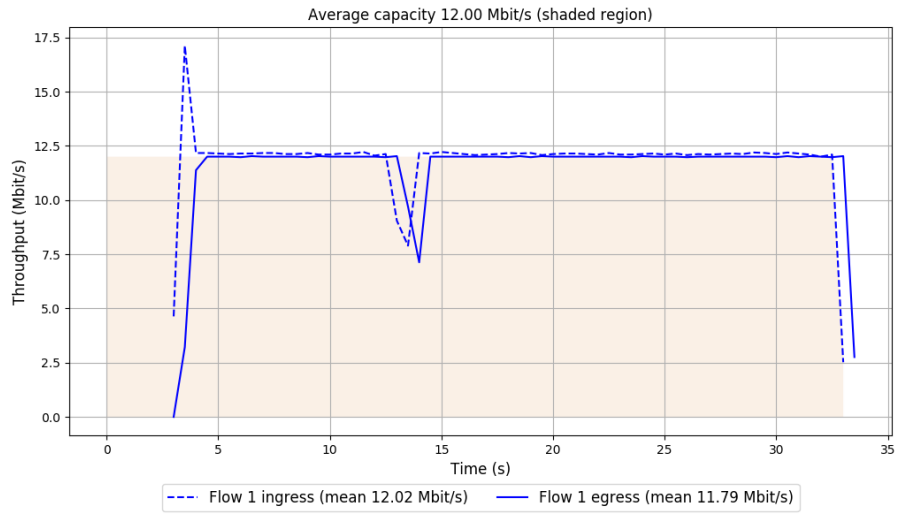
-- Flow 1:

Average throughput: 11.79 Mbit/s

95th percentile per-packet one-way delay: 48.672 ms

Loss rate: 2.00%

Run 3: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2020-04-16 09:11:52

End at: 2020-04-16 09:12:23

Below is generated by plot.py at 2020-04-16 09:45:48

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.09 Mbit/s (92.4% utilization)

95th percentile per-packet one-way delay: 48.443 ms

Loss rate: 1.01%

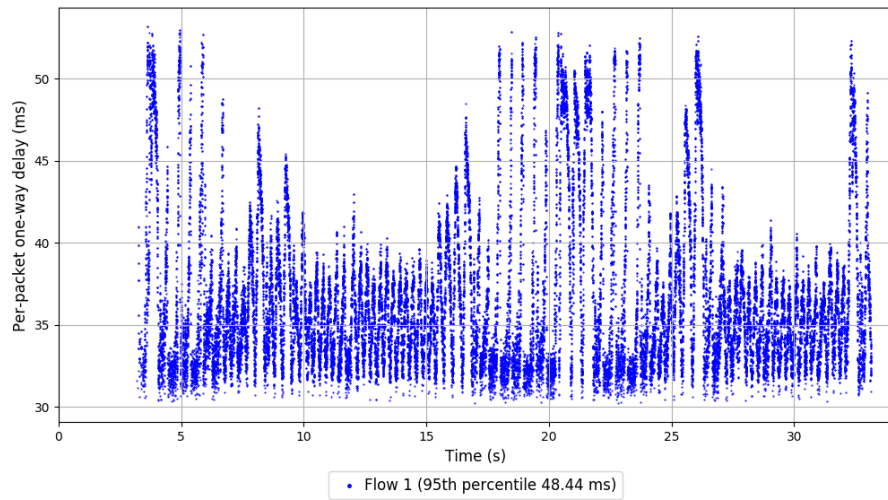
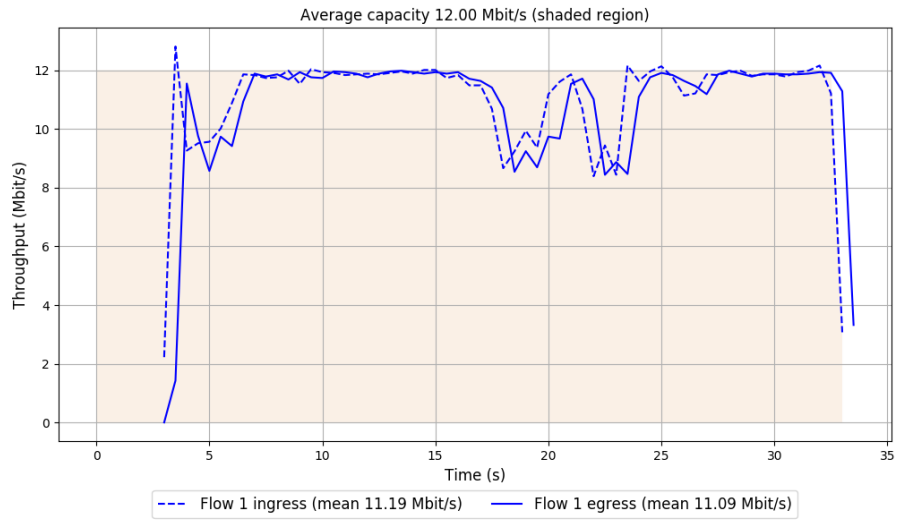
-- Flow 1:

Average throughput: 11.09 Mbit/s

95th percentile per-packet one-way delay: 48.443 ms

Loss rate: 1.01%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2020-04-16 09:26:02

End at: 2020-04-16 09:26:32

Below is generated by plot.py at 2020-04-16 09:45:48

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.81 Mbit/s (90.0% utilization)

95th percentile per-packet one-way delay: 47.915 ms

Loss rate: 1.22%

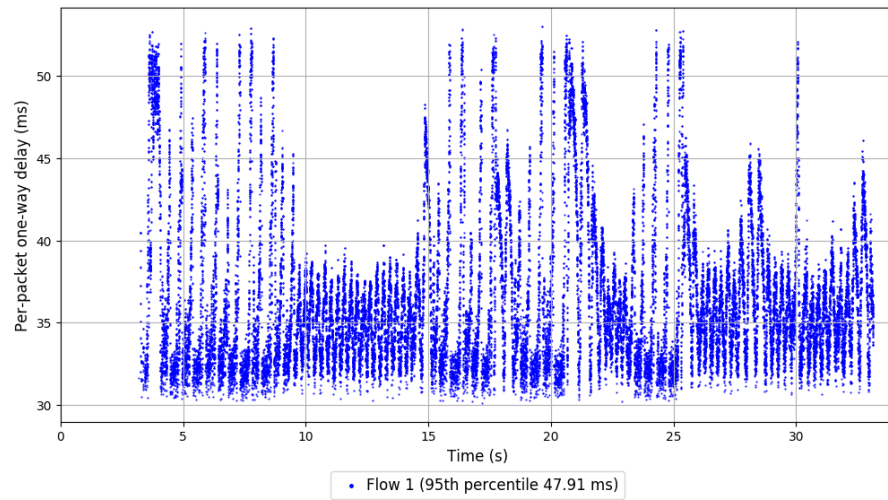
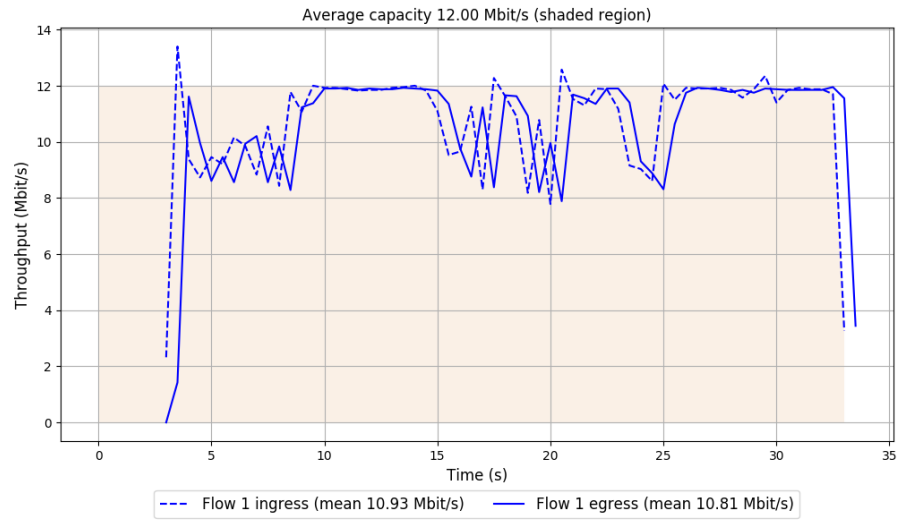
-- Flow 1:

Average throughput: 10.81 Mbit/s

95th percentile per-packet one-way delay: 47.915 ms

Loss rate: 1.22%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2020-04-16 09:40:11

End at: 2020-04-16 09:40:41

Below is generated by plot.py at 2020-04-16 09:45:48

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.97 Mbit/s (91.4% utilization)

95th percentile per-packet one-way delay: 47.748 ms

Loss rate: 1.54%

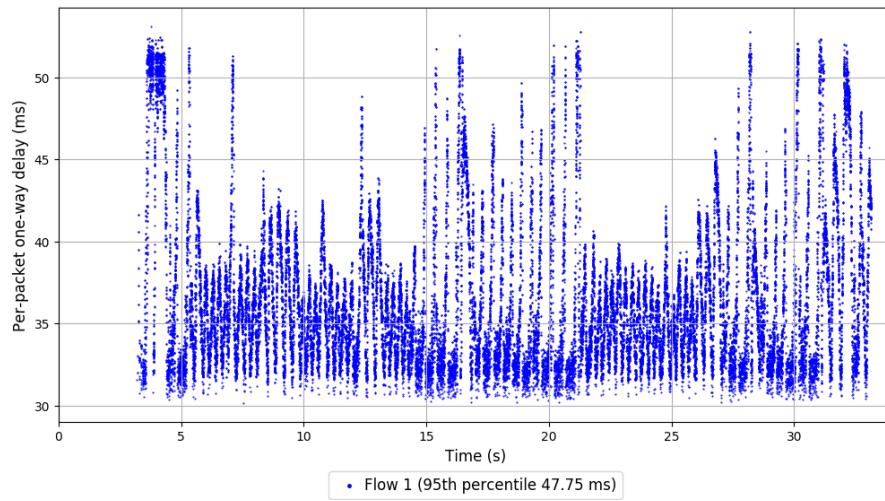
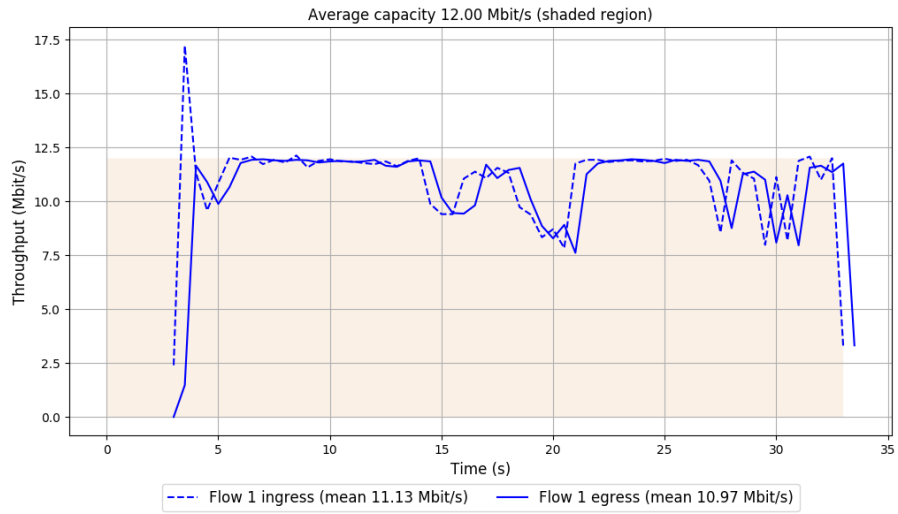
-- Flow 1:

Average throughput: 10.97 Mbit/s

95th percentile per-packet one-way delay: 47.748 ms

Loss rate: 1.54%

Run 3: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2020-04-16 09:16:00

End at: 2020-04-16 09:16:30

Below is generated by plot.py at 2020-04-16 09:45:48

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.78 Mbit/s (98.1% utilization)

95th percentile per-packet one-way delay: 48.579 ms

Loss rate: 0.39%

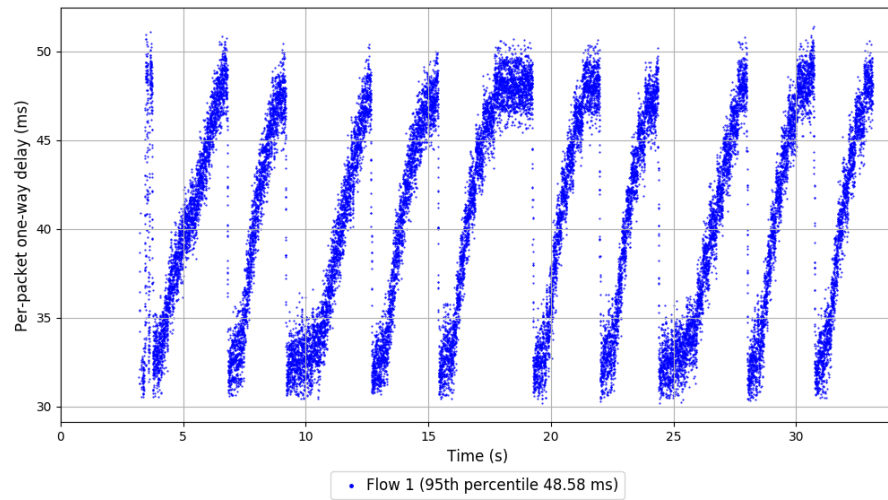
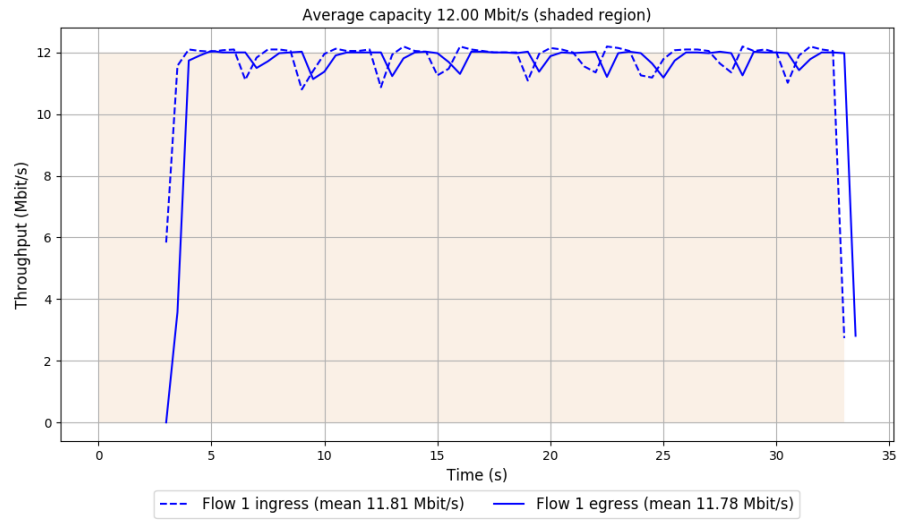
-- Flow 1:

Average throughput: 11.78 Mbit/s

95th percentile per-packet one-way delay: 48.579 ms

Loss rate: 0.39%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2020-04-16 09:30:09

End at: 2020-04-16 09:30:39

Below is generated by plot.py at 2020-04-16 09:45:48

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.76 Mbit/s (98.0% utilization)

95th percentile per-packet one-way delay: 48.787 ms

Loss rate: 0.28%

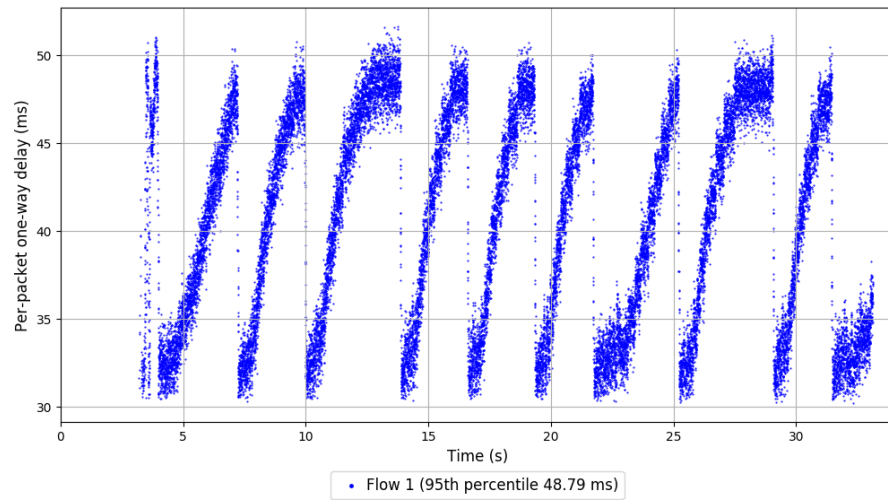
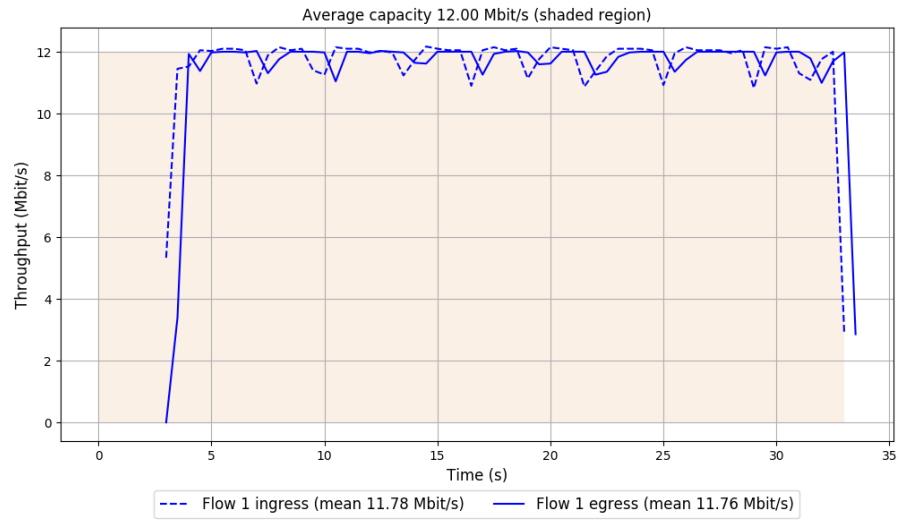
-- Flow 1:

Average throughput: 11.76 Mbit/s

95th percentile per-packet one-way delay: 48.787 ms

Loss rate: 0.28%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2020-04-16 09:44:18

End at: 2020-04-16 09:44:48

Below is generated by plot.py at 2020-04-16 09:45:59

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.74 Mbit/s (97.8% utilization)

95th percentile per-packet one-way delay: 49.087 ms

Loss rate: 0.24%

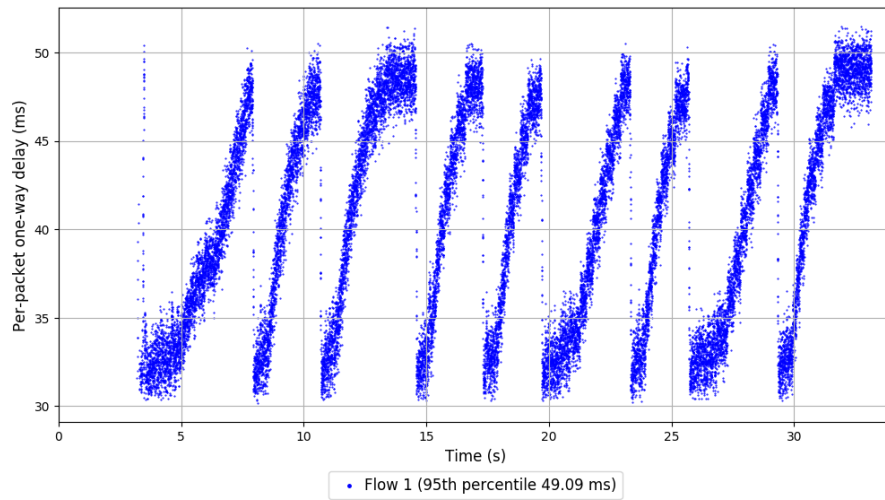
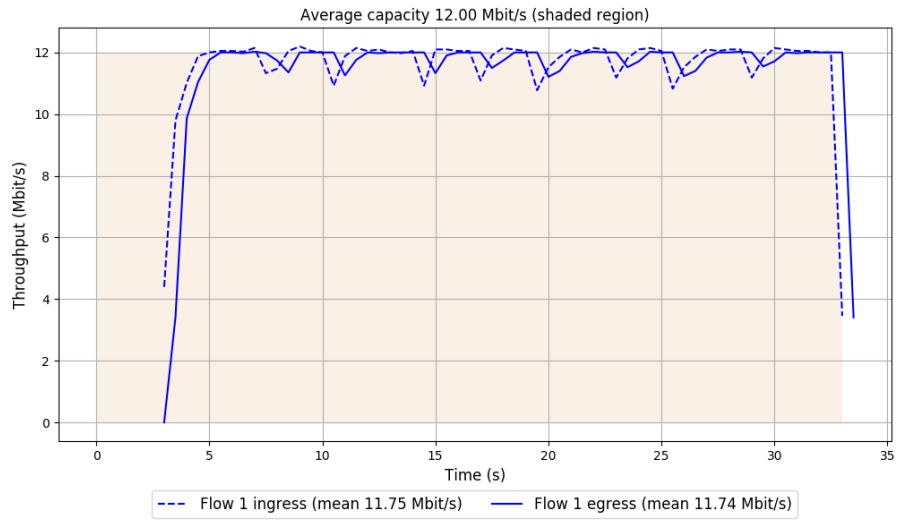
-- Flow 1:

Average throughput: 11.74 Mbit/s

95th percentile per-packet one-way delay: 49.087 ms

Loss rate: 0.24%

Run 3: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2020-04-16 09:05:22

End at: 2020-04-16 09:05:52

Below is generated by plot.py at 2020-04-16 09:46:02

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.38 Mbit/s (94.8% utilization)

95th percentile per-packet one-way delay: 50.687 ms

Loss rate: 3.18%

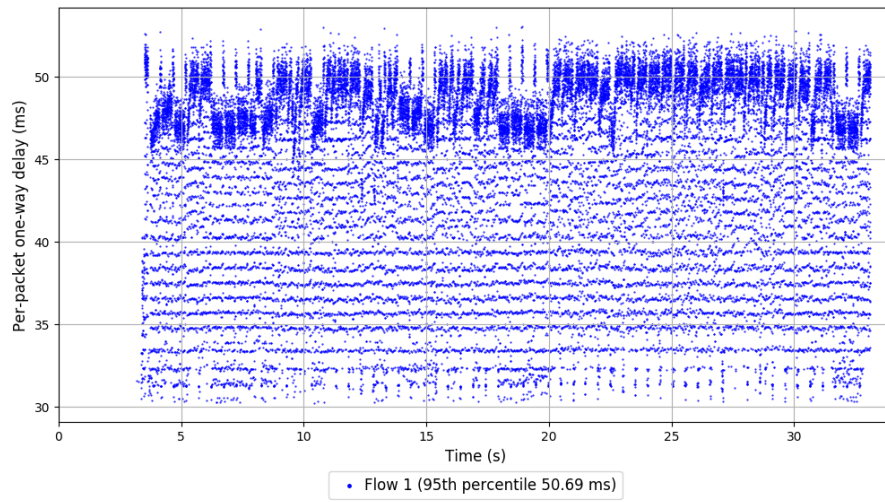
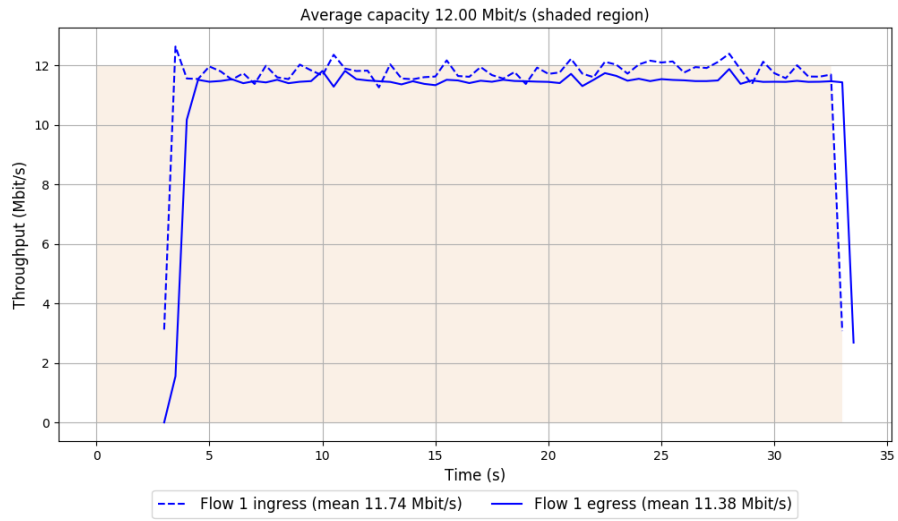
-- Flow 1:

Average throughput: 11.38 Mbit/s

95th percentile per-packet one-way delay: 50.687 ms

Loss rate: 3.18%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2020-04-16 09:19:31

End at: 2020-04-16 09:20:01

Below is generated by plot.py at 2020-04-16 09:46:04

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.36 Mbit/s (94.7% utilization)

95th percentile per-packet one-way delay: 50.524 ms

Loss rate: 2.53%

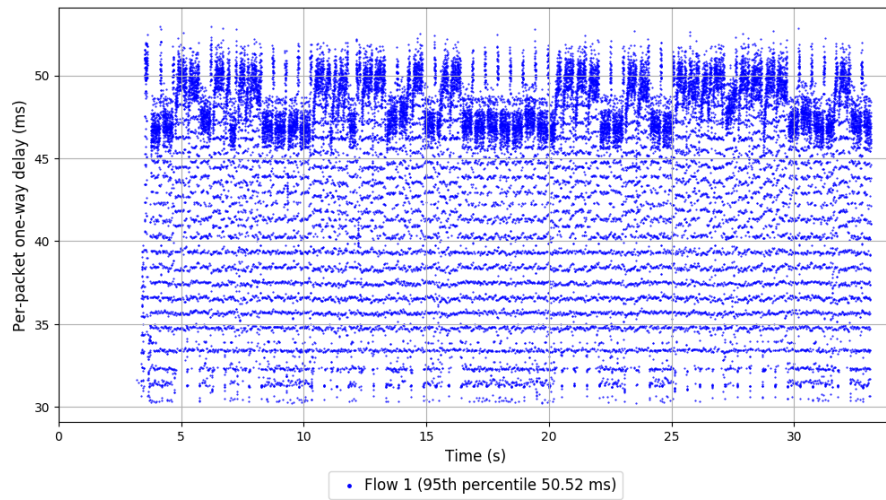
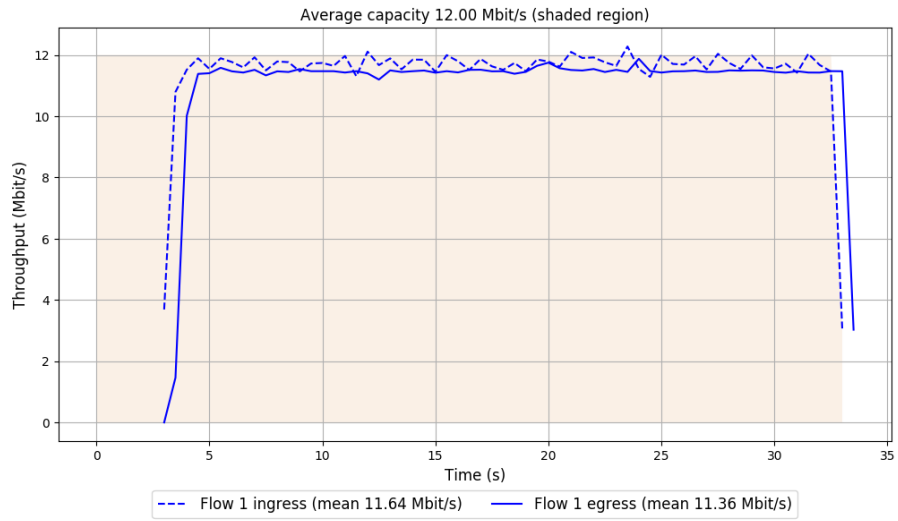
-- Flow 1:

Average throughput: 11.36 Mbit/s

95th percentile per-packet one-way delay: 50.524 ms

Loss rate: 2.53%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2020-04-16 09:33:41

End at: 2020-04-16 09:34:11

Below is generated by plot.py at 2020-04-16 09:46:04

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.37 Mbit/s (94.8% utilization)

95th percentile per-packet one-way delay: 50.513 ms

Loss rate: 2.69%

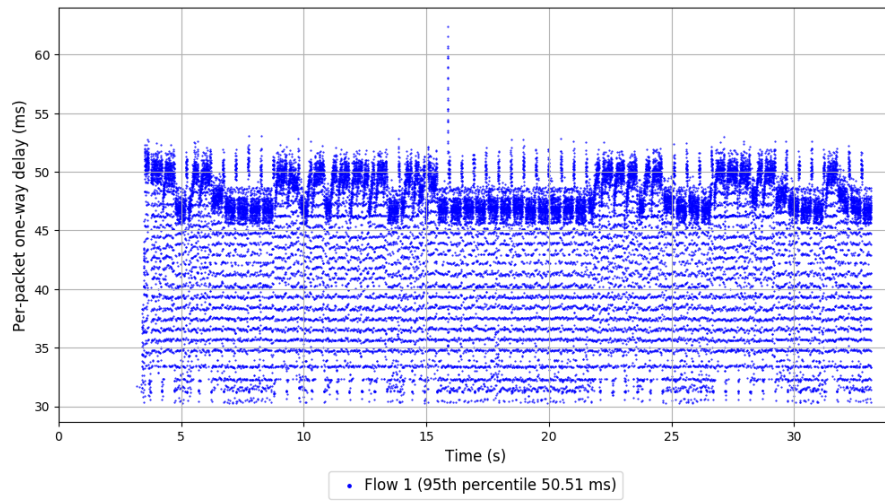
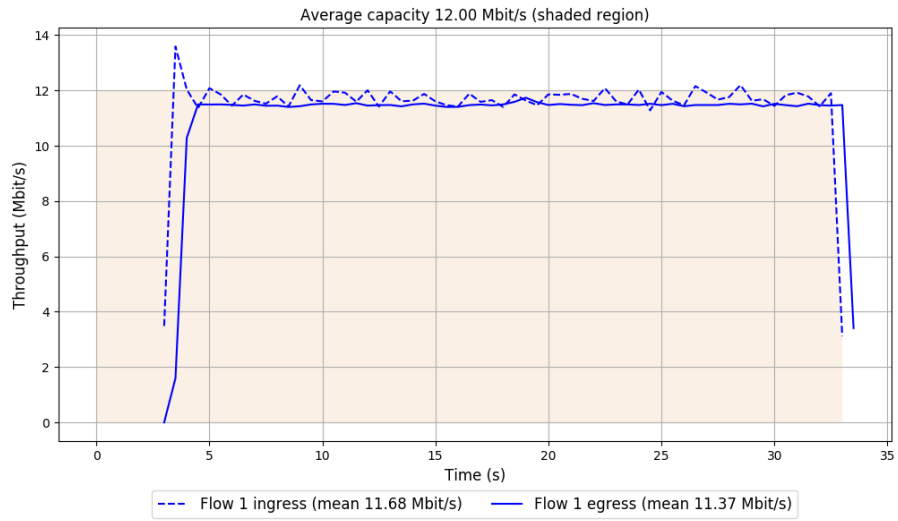
-- Flow 1:

Average throughput: 11.37 Mbit/s

95th percentile per-packet one-way delay: 50.513 ms

Loss rate: 2.69%

Run 3: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2020-04-16 09:15:25

End at: 2020-04-16 09:15:55

Below is generated by plot.py at 2020-04-16 09:46:04

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.39 Mbit/s (86.6% utilization)

95th percentile per-packet one-way delay: 48.684 ms

Loss rate: 1.42%

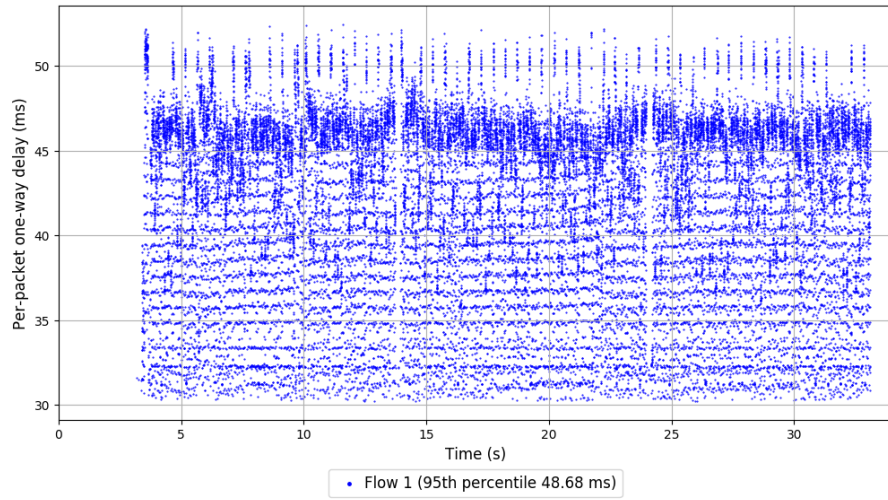
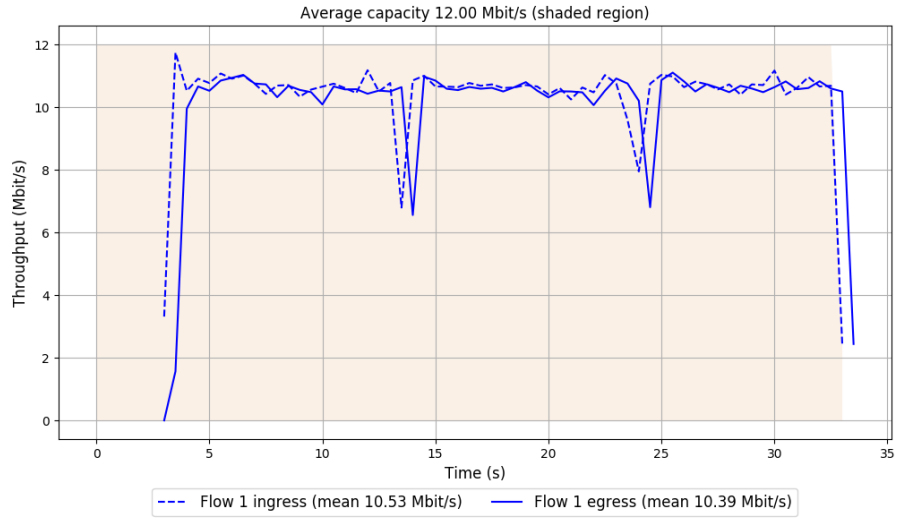
-- Flow 1:

Average throughput: 10.39 Mbit/s

95th percentile per-packet one-way delay: 48.684 ms

Loss rate: 1.42%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2020-04-16 09:29:34

End at: 2020-04-16 09:30:04

Below is generated by plot.py at 2020-04-16 09:46:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.27 Mbit/s (85.6% utilization)

95th percentile per-packet one-way delay: 48.595 ms

Loss rate: 1.35%

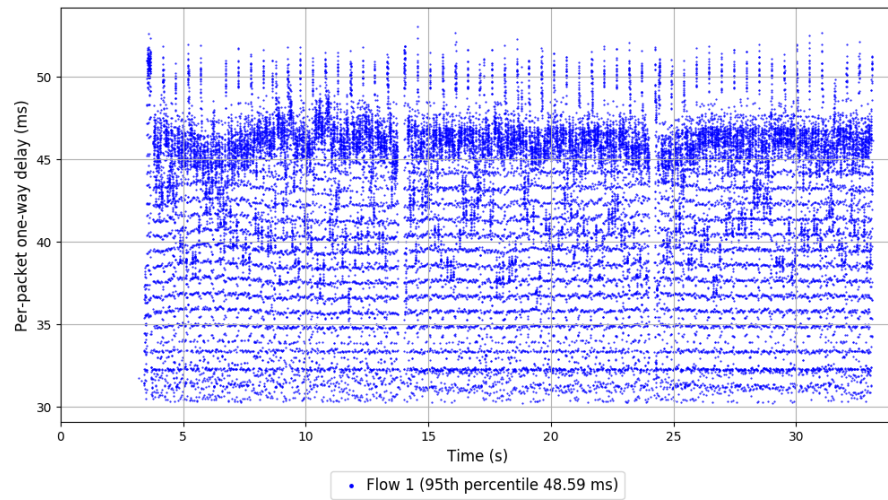
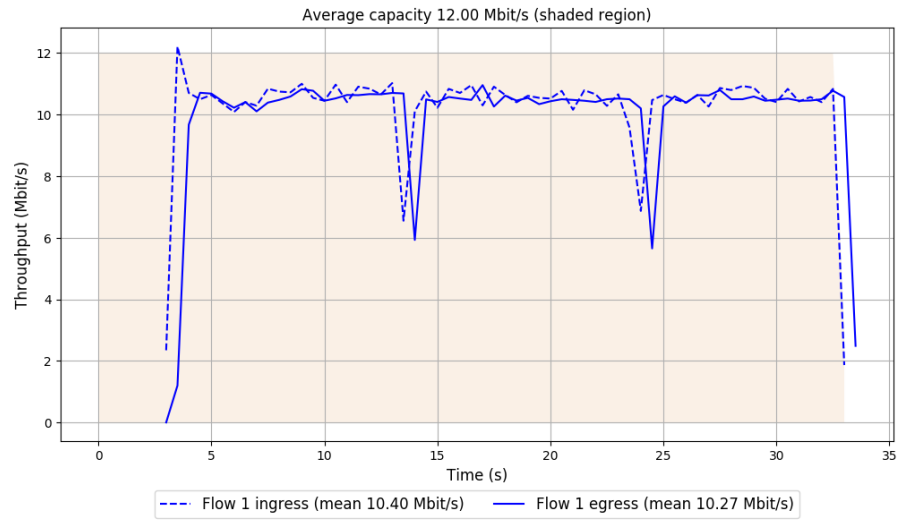
-- Flow 1:

Average throughput: 10.27 Mbit/s

95th percentile per-packet one-way delay: 48.595 ms

Loss rate: 1.35%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2020-04-16 09:43:42

End at: 2020-04-16 09:44:12

Below is generated by plot.py at 2020-04-16 09:46:14

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.32 Mbit/s (86.0% utilization)

95th percentile per-packet one-way delay: 49.106 ms

Loss rate: 1.50%

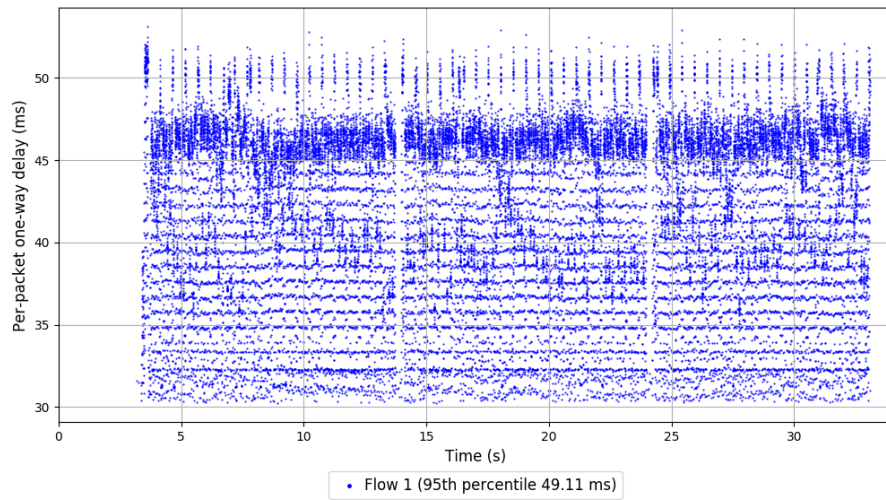
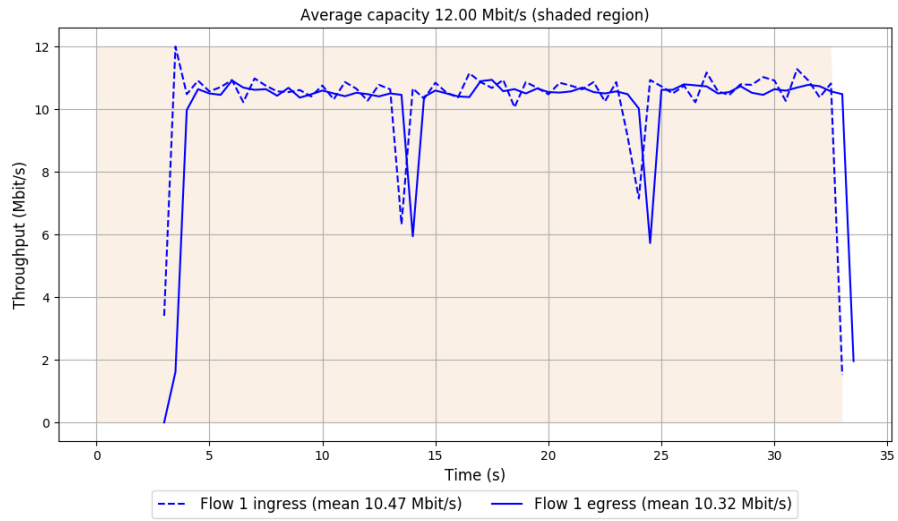
-- Flow 1:

Average throughput: 10.32 Mbit/s

95th percentile per-packet one-way delay: 49.106 ms

Loss rate: 1.50%

Run 3: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2020-04-16 09:10:40

End at: 2020-04-16 09:11:10

Below is generated by plot.py at 2020-04-16 09:46:14

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.78 Mbit/s (98.2% utilization)

95th percentile per-packet one-way delay: 40.214 ms

Loss rate: 3.14%

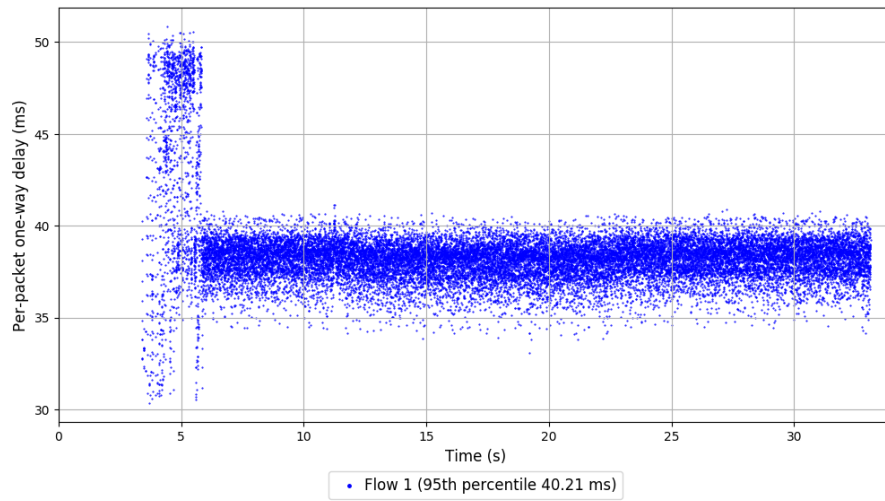
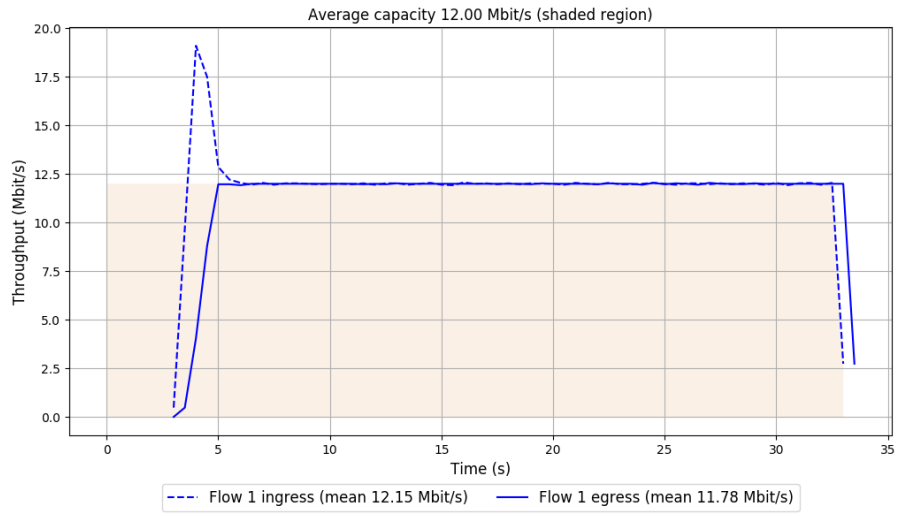
-- Flow 1:

Average throughput: 11.78 Mbit/s

95th percentile per-packet one-way delay: 40.214 ms

Loss rate: 3.14%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2020-04-16 09:24:49

End at: 2020-04-16 09:25:19

Below is generated by plot.py at 2020-04-16 09:46:23

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.26 Mbit/s (93.9% utilization)

95th percentile per-packet one-way delay: 48.386 ms

Loss rate: 8.85%

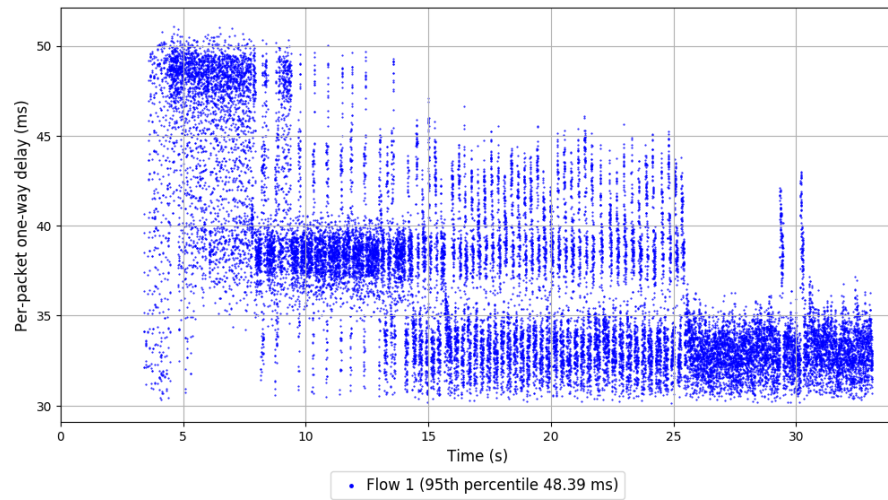
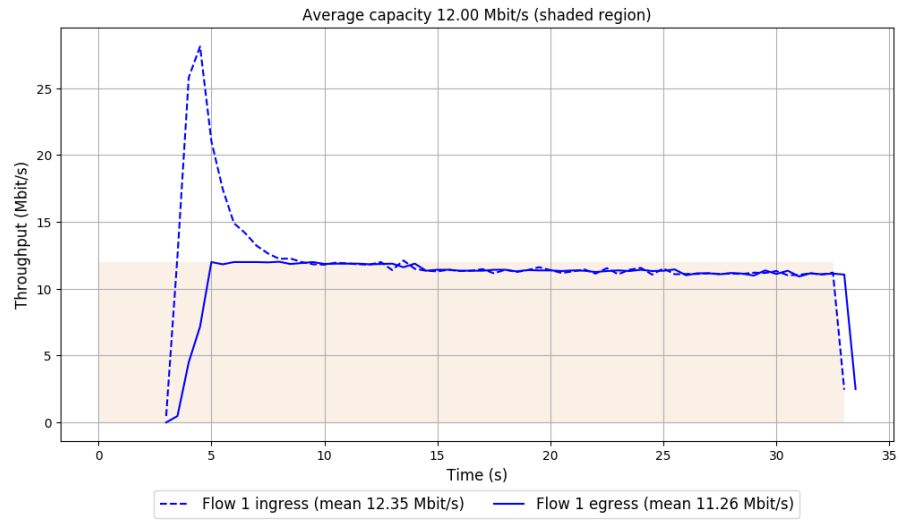
-- Flow 1:

Average throughput: 11.26 Mbit/s

95th percentile per-packet one-way delay: 48.386 ms

Loss rate: 8.85%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2020-04-16 09:38:59

End at: 2020-04-16 09:39:29

Below is generated by plot.py at 2020-04-16 09:46:26

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.75 Mbit/s (97.9% utilization)

95th percentile per-packet one-way delay: 46.002 ms

Loss rate: 4.82%

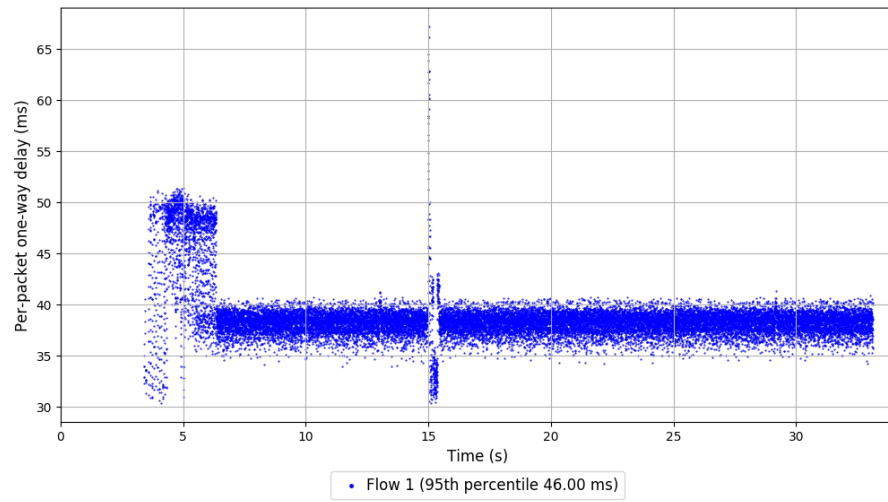
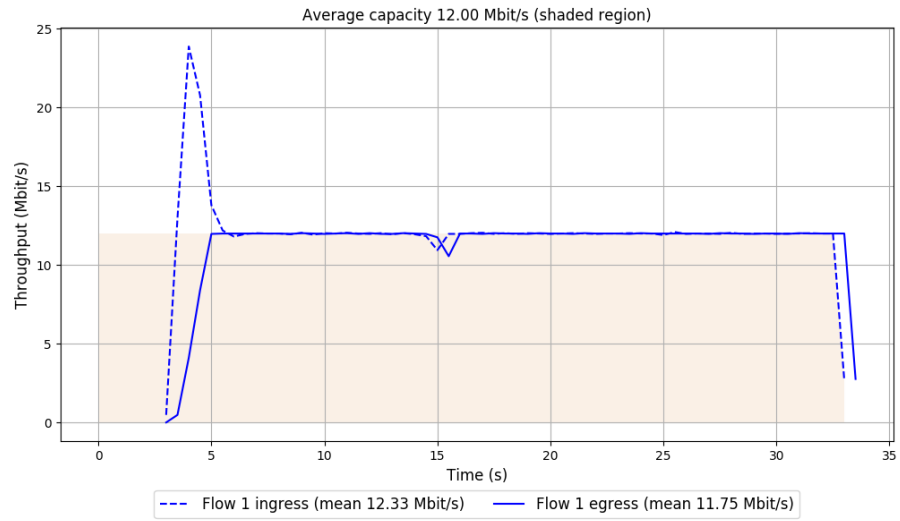
-- Flow 1:

Average throughput: 11.75 Mbit/s

95th percentile per-packet one-way delay: 46.002 ms

Loss rate: 4.82%

Run 3: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2020-04-16 09:10:05

End at: 2020-04-16 09:10:35

Below is generated by plot.py at 2020-04-16 09:46:27

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.82 Mbit/s (98.5% utilization)

95th percentile per-packet one-way delay: 41.049 ms

Loss rate: 0.36%

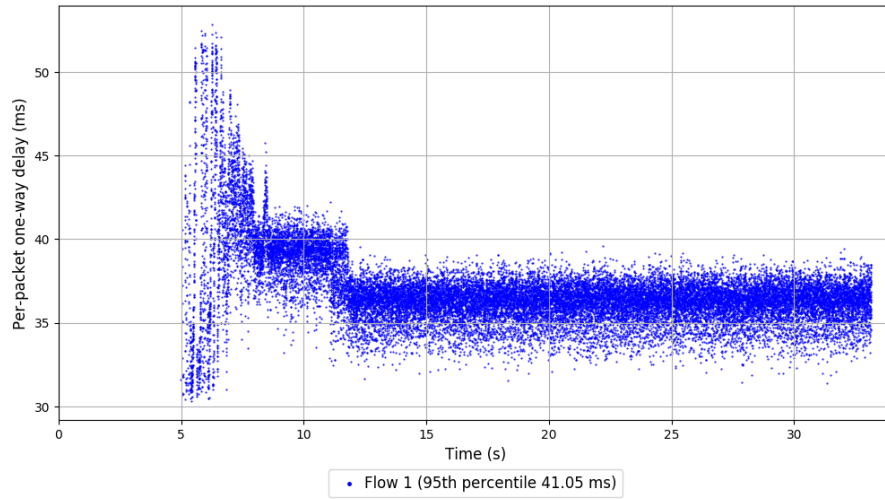
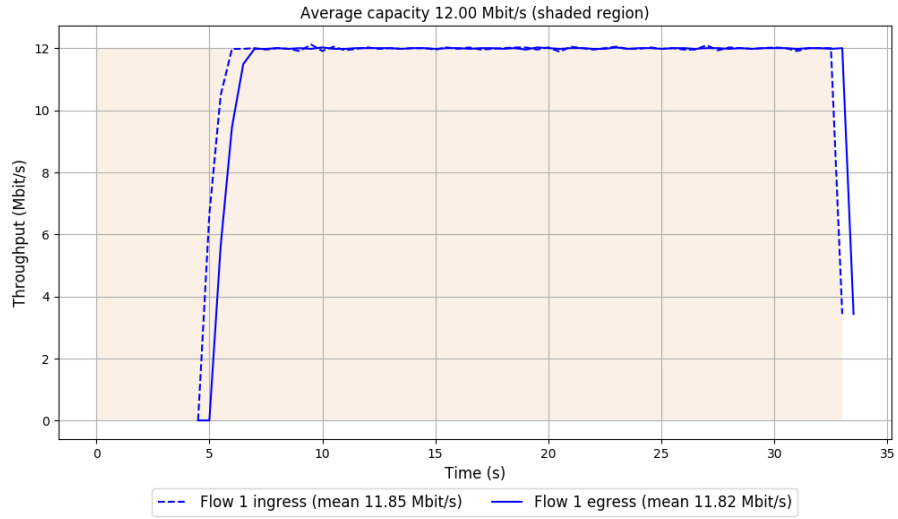
-- Flow 1:

Average throughput: 11.82 Mbit/s

95th percentile per-packet one-way delay: 41.049 ms

Loss rate: 0.36%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2020-04-16 09:24:14

End at: 2020-04-16 09:24:44

Below is generated by plot.py at 2020-04-16 09:46:29

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.77 Mbit/s (98.1% utilization)

95th percentile per-packet one-way delay: 39.663 ms

Loss rate: 0.42%

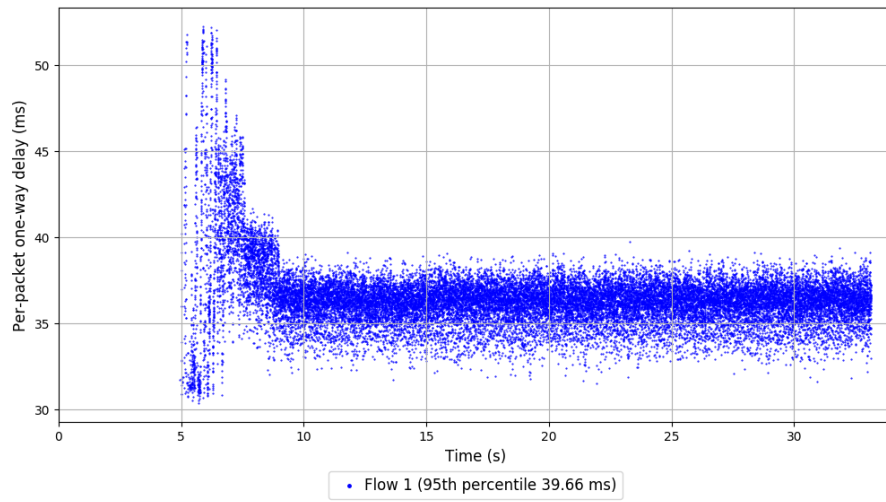
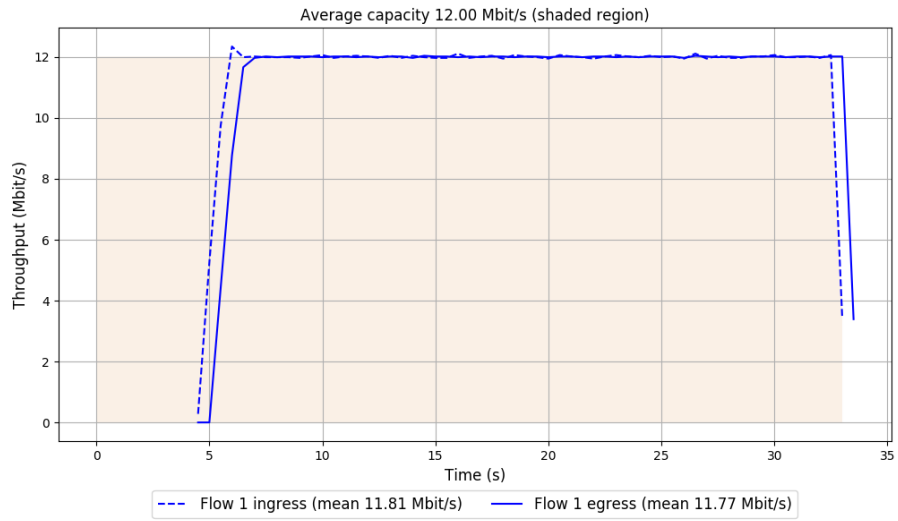
-- Flow 1:

Average throughput: 11.77 Mbit/s

95th percentile per-packet one-way delay: 39.663 ms

Loss rate: 0.42%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2020-04-16 09:38:24

End at: 2020-04-16 09:38:54

Below is generated by plot.py at 2020-04-16 09:46:29

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.70 Mbit/s (97.5% utilization)

95th percentile per-packet one-way delay: 42.322 ms

Loss rate: 0.84%

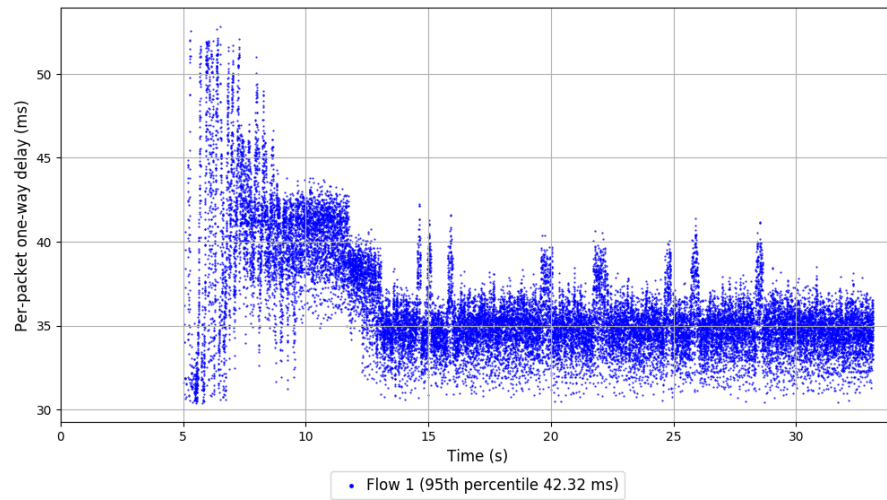
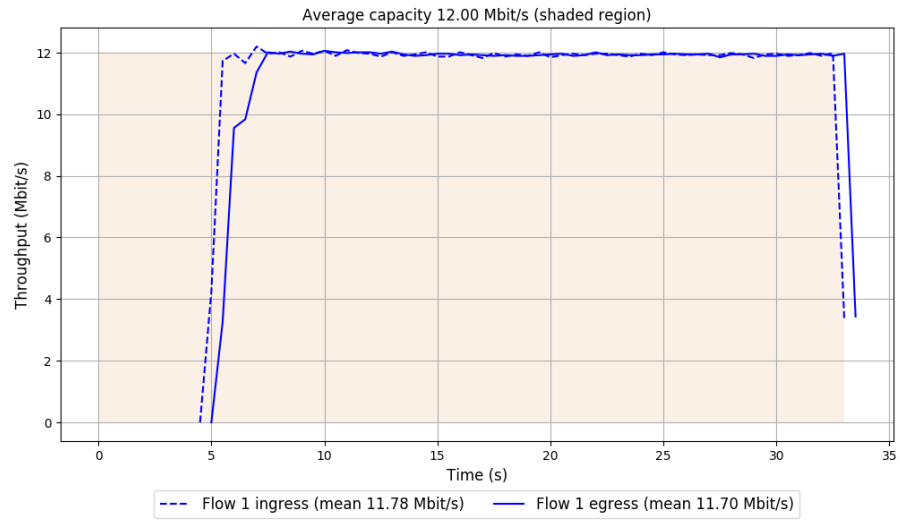
-- Flow 1:

Average throughput: 11.70 Mbit/s

95th percentile per-packet one-way delay: 42.322 ms

Loss rate: 0.84%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2020-04-16 09:07:08

End at: 2020-04-16 09:07:38

Below is generated by plot.py at 2020-04-16 09:46:35

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 9.13 Mbit/s (76.1% utilization)

95th percentile per-packet one-way delay: 44.880 ms

Loss rate: 1.00%

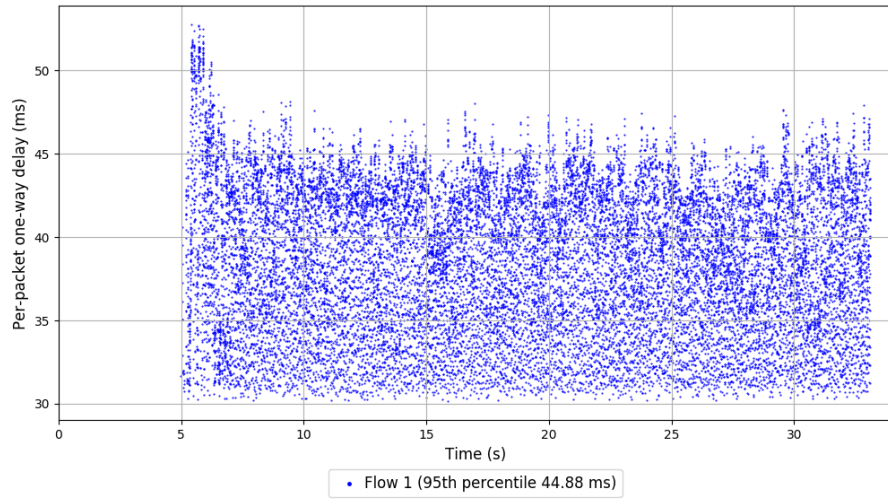
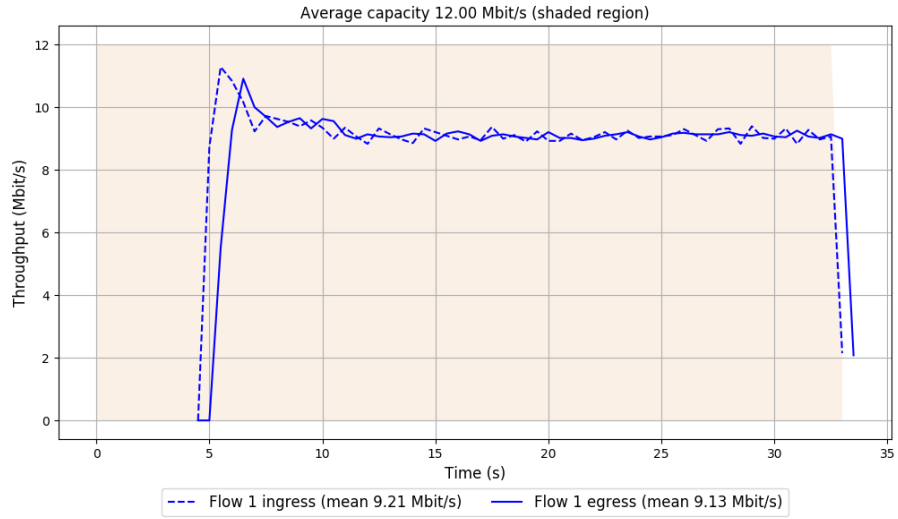
-- Flow 1:

Average throughput: 9.13 Mbit/s

95th percentile per-packet one-way delay: 44.880 ms

Loss rate: 1.00%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2020-04-16 09:21:17

End at: 2020-04-16 09:21:47

Below is generated by plot.py at 2020-04-16 09:46:36

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 9.57 Mbit/s (79.7% utilization)

95th percentile per-packet one-way delay: 44.975 ms

Loss rate: 0.92%

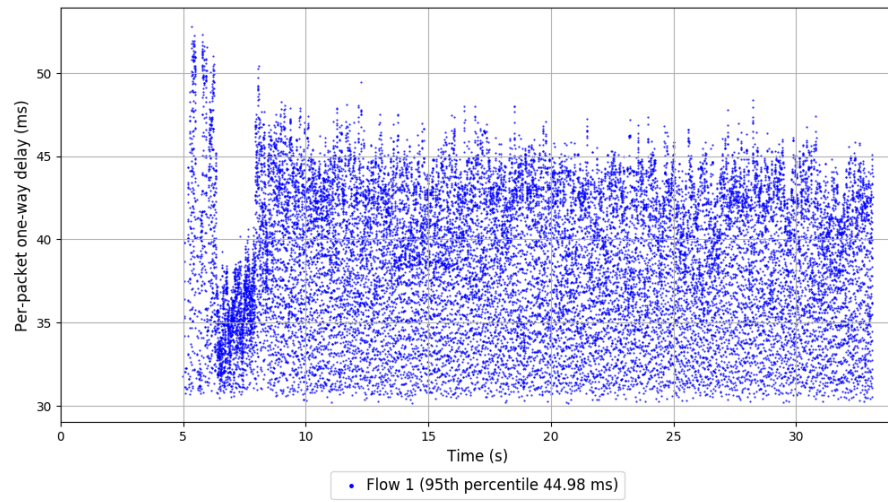
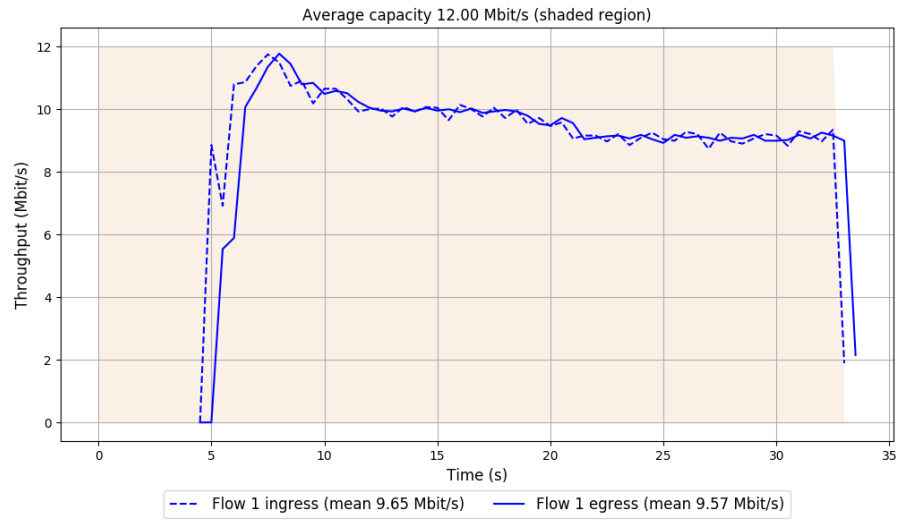
-- Flow 1:

Average throughput: 9.57 Mbit/s

95th percentile per-packet one-way delay: 44.975 ms

Loss rate: 0.92%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2020-04-16 09:35:27

End at: 2020-04-16 09:35:57

Below is generated by plot.py at 2020-04-16 09:46:39

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.09 Mbit/s (92.4% utilization)

95th percentile per-packet one-way delay: 36.991 ms

Loss rate: 0.63%

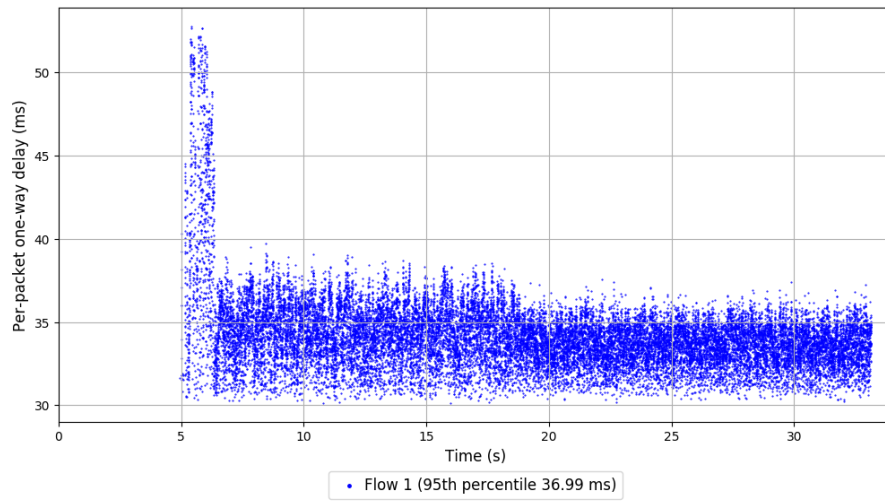
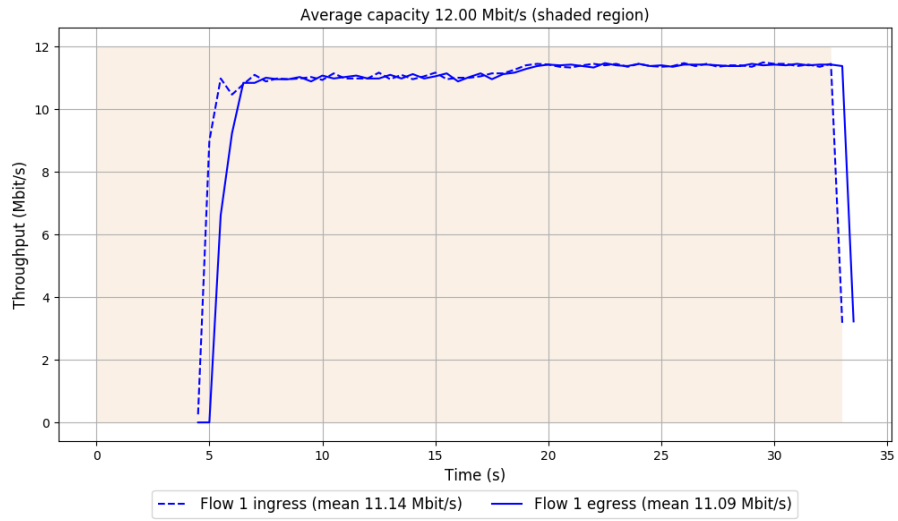
-- Flow 1:

Average throughput: 11.09 Mbit/s

95th percentile per-packet one-way delay: 36.991 ms

Loss rate: 0.63%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2020-04-16 09:03:36

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

Below is generated by plot.py at 2020-04-16 09:46:42

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 8.25 Mbit/s (68.7% utilization)

95th percentile per-packet one-way delay: 44.188 ms

Loss rate: 2.45%

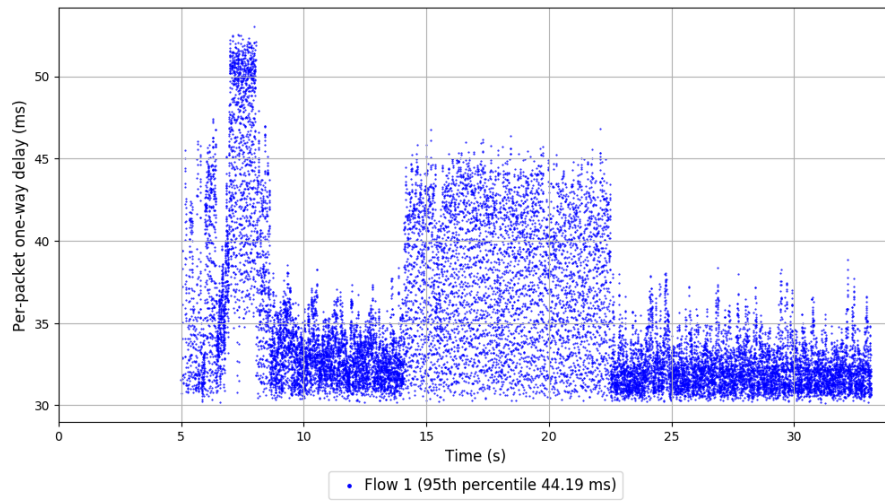
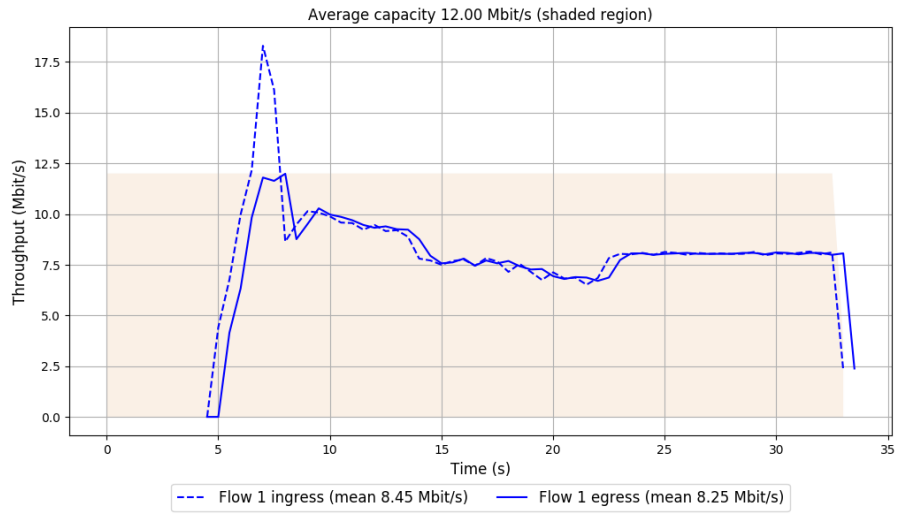
-- Flow 1:

Average throughput: 8.25 Mbit/s

95th percentile per-packet one-way delay: 44.188 ms

Loss rate: 2.45%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2020-04-16 09:17:45

End at: 2020-04-16 09:18:15

Below is generated by plot.py at 2020-04-16 09:46:46

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 8.45 Mbit/s (70.4% utilization)

95th percentile per-packet one-way delay: 44.636 ms

Loss rate: 2.72%

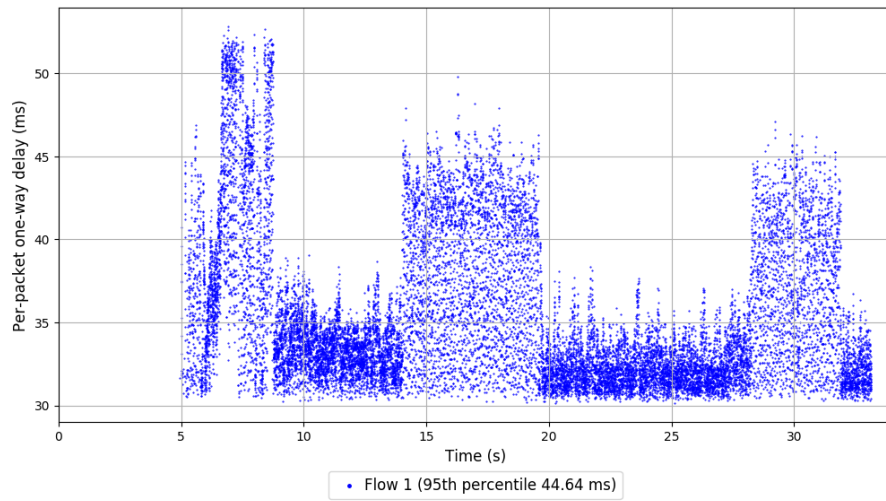
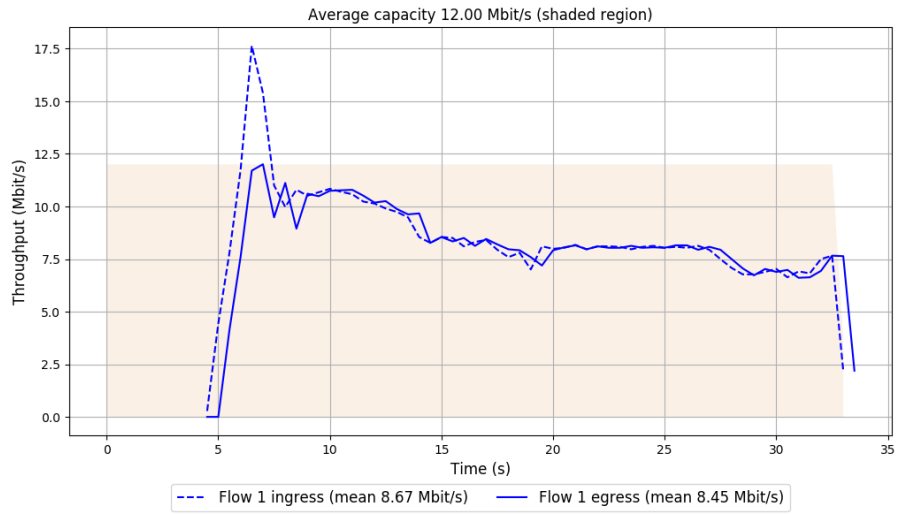
-- Flow 1:

Average throughput: 8.45 Mbit/s

95th percentile per-packet one-way delay: 44.636 ms

Loss rate: 2.72%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2020-04-16 09:31:55

End at: 2020-04-16 09:32:25

Below is generated by plot.py at 2020-04-16 09:46:49

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 8.65 Mbit/s (72.1% utilization)

95th percentile per-packet one-way delay: 44.558 ms

Loss rate: 2.32%

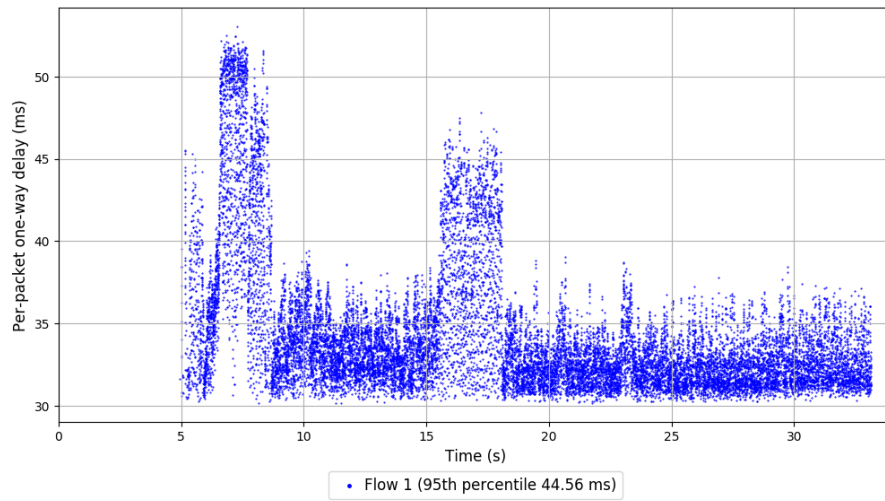
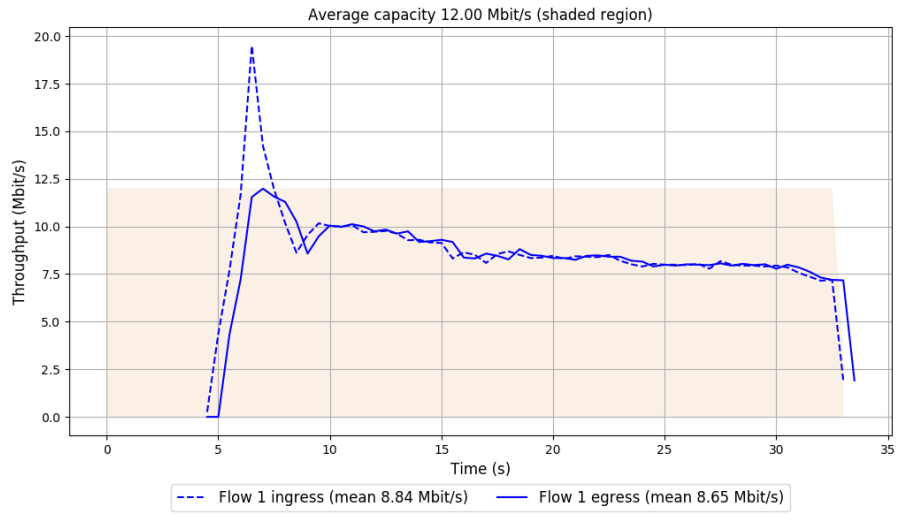
-- Flow 1:

Average throughput: 8.65 Mbit/s

95th percentile per-packet one-way delay: 44.558 ms

Loss rate: 2.32%

Run 3: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MuseST

Start at: 2020-04-16 09:03:01

End at: 2020-04-16 09:03:31

Below is generated by plot.py at 2020-04-16 09:46:55

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.88 Mbit/s (99.0% utilization)

95th percentile per-packet one-way delay: 42.584 ms

Loss rate: 0.38%

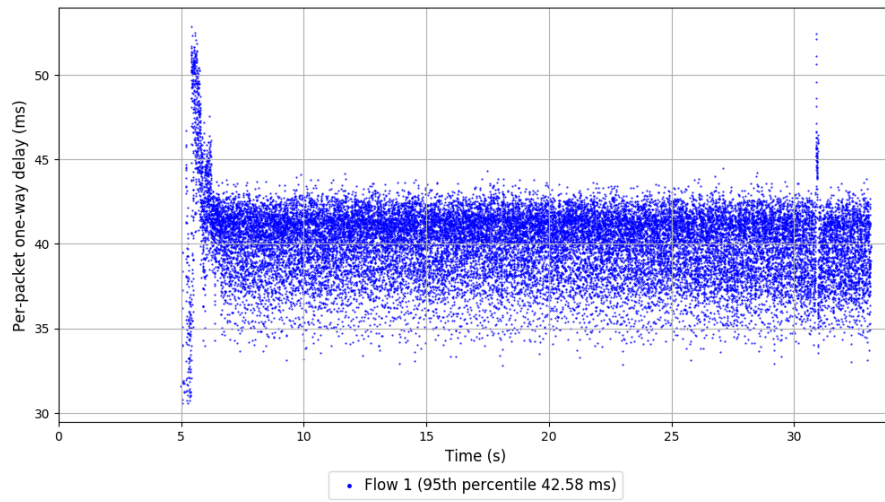
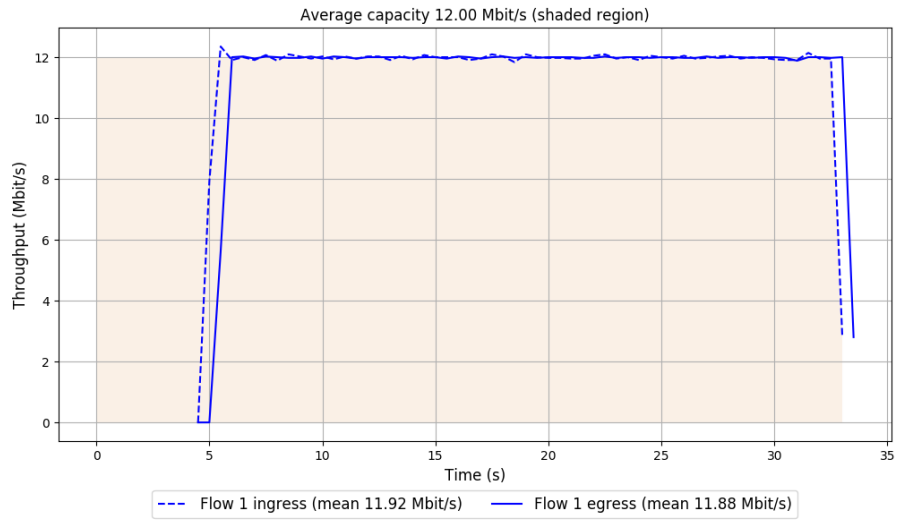
-- Flow 1:

Average throughput: 11.88 Mbit/s

95th percentile per-packet one-way delay: 42.584 ms

Loss rate: 0.38%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MuseST

Start at: 2020-04-16 09:17:10

End at: 2020-04-16 09:17:40

Below is generated by plot.py at 2020-04-16 09:46:56

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.89 Mbit/s (99.0% utilization)

95th percentile per-packet one-way delay: 42.796 ms

Loss rate: 0.23%

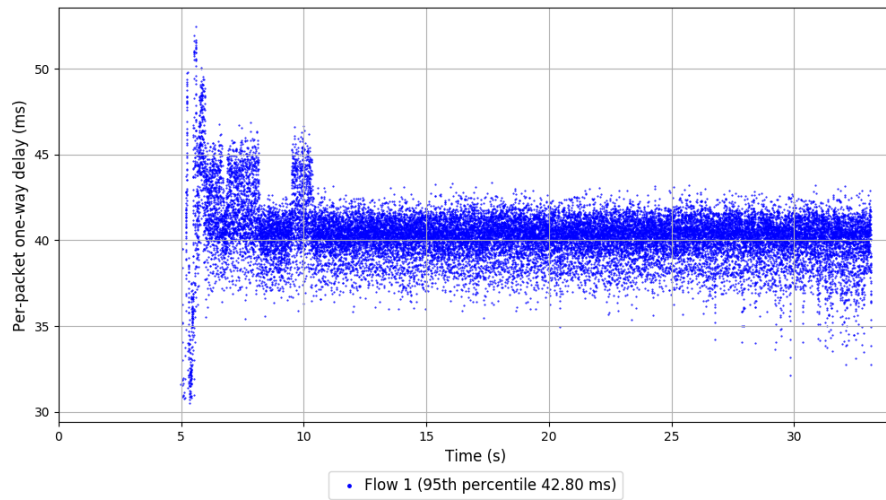
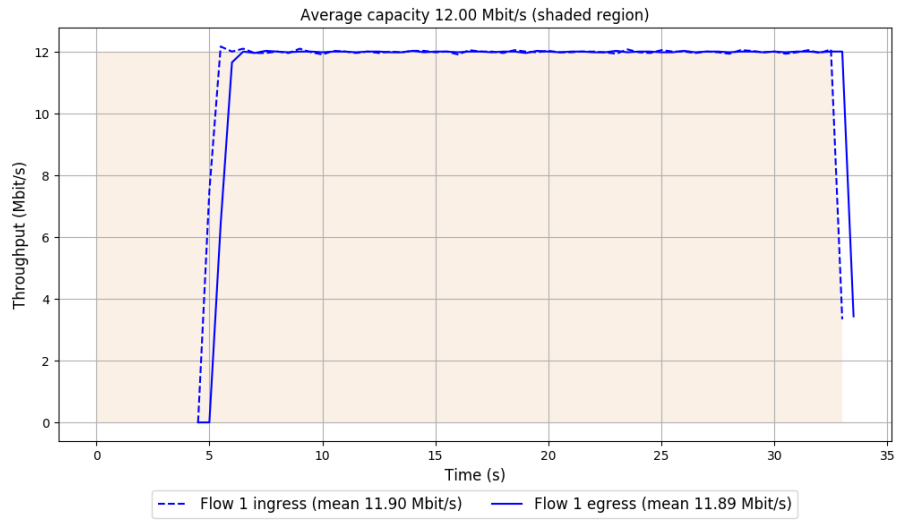
-- Flow 1:

Average throughput: 11.89 Mbit/s

95th percentile per-packet one-way delay: 42.796 ms

Loss rate: 0.23%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MuseST

Start at: 2020-04-16 09:31:20

End at: 2020-04-16 09:31:50

Below is generated by plot.py at 2020-04-16 09:47:01

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.89 Mbit/s (99.1% utilization)

95th percentile per-packet one-way delay: 42.798 ms

Loss rate: 0.31%

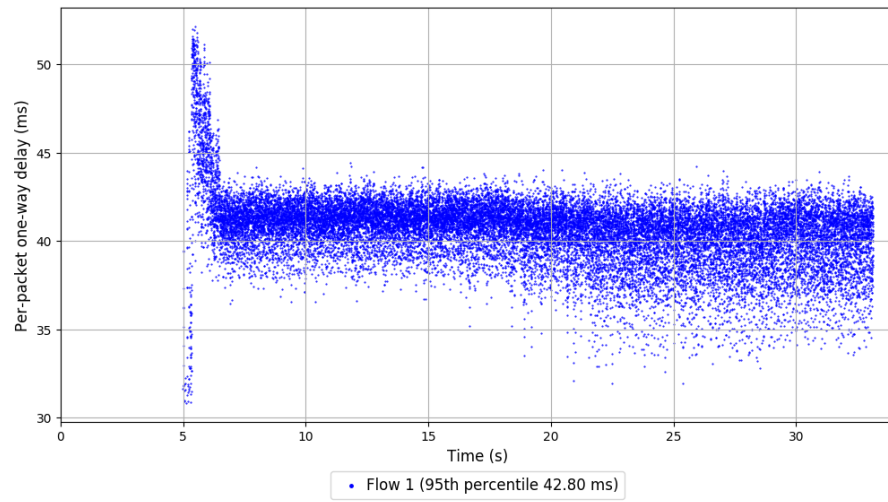
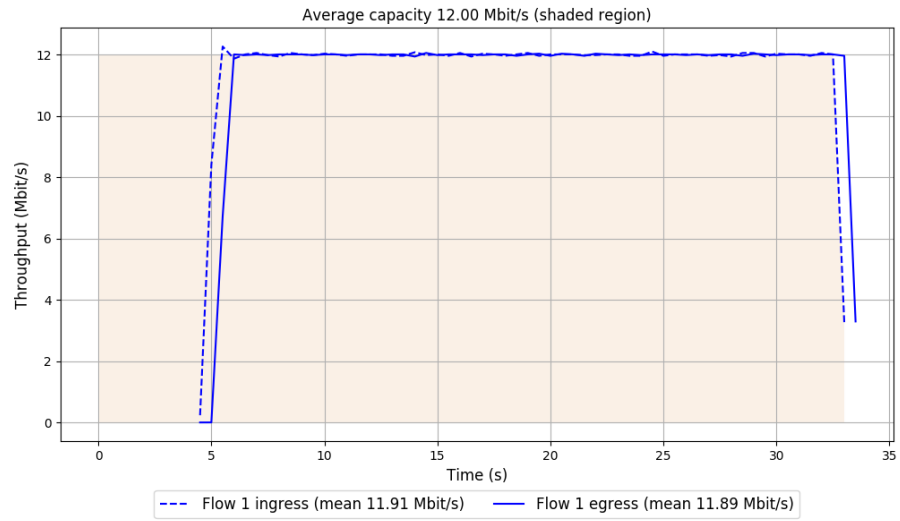
-- Flow 1:

Average throughput: 11.89 Mbit/s

95th percentile per-packet one-way delay: 42.798 ms

Loss rate: 0.31%

Run 3: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2020-04-16 09:05:58

End at: 2020-04-16 09:06:28

Below is generated by plot.py at 2020-04-16 09:47:01

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 8.76 Mbit/s (73.0% utilization)

95th percentile per-packet one-way delay: 49.617 ms

Loss rate: 1.02%

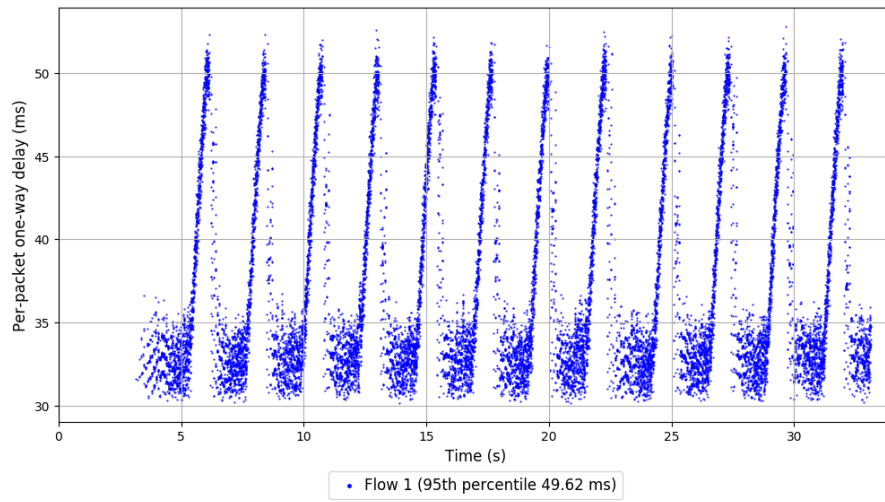
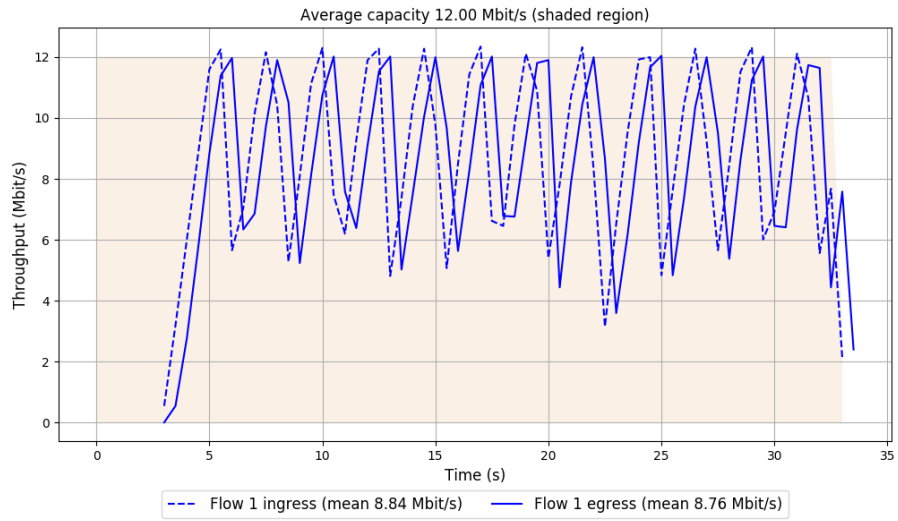
-- Flow 1:

Average throughput: 8.76 Mbit/s

95th percentile per-packet one-way delay: 49.617 ms

Loss rate: 1.02%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

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

End at: 2020-04-16 09:20:37

Below is generated by plot.py at 2020-04-16 09:47:01

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 8.86 Mbit/s (73.8% utilization)

95th percentile per-packet one-way delay: 49.566 ms

Loss rate: 1.11%

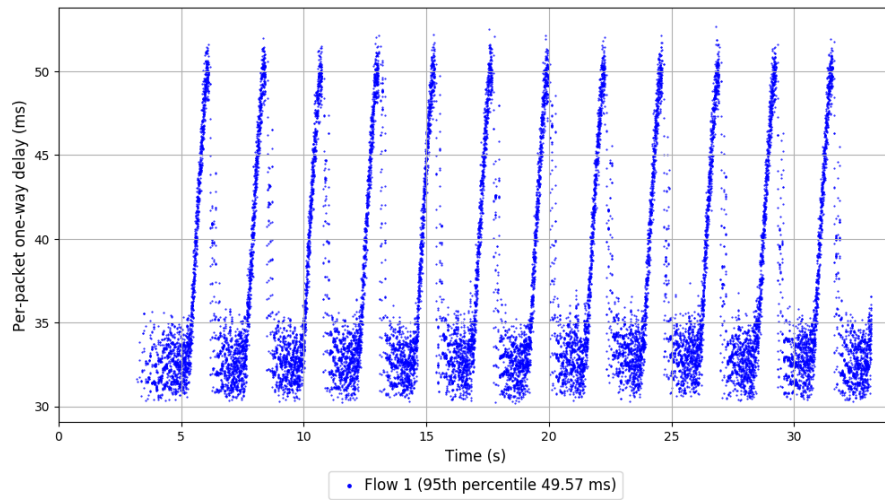
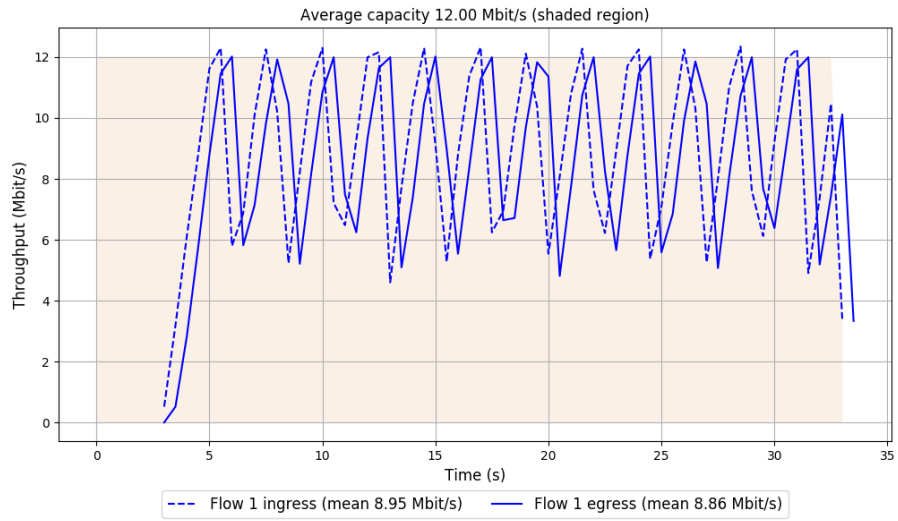
-- Flow 1:

Average throughput: 8.86 Mbit/s

95th percentile per-packet one-way delay: 49.566 ms

Loss rate: 1.11%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2020-04-16 09:34:16

End at: 2020-04-16 09:34:46

Below is generated by plot.py at 2020-04-16 09:47:05

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 8.70 Mbit/s (72.5% utilization)

95th percentile per-packet one-way delay: 49.578 ms

Loss rate: 0.97%

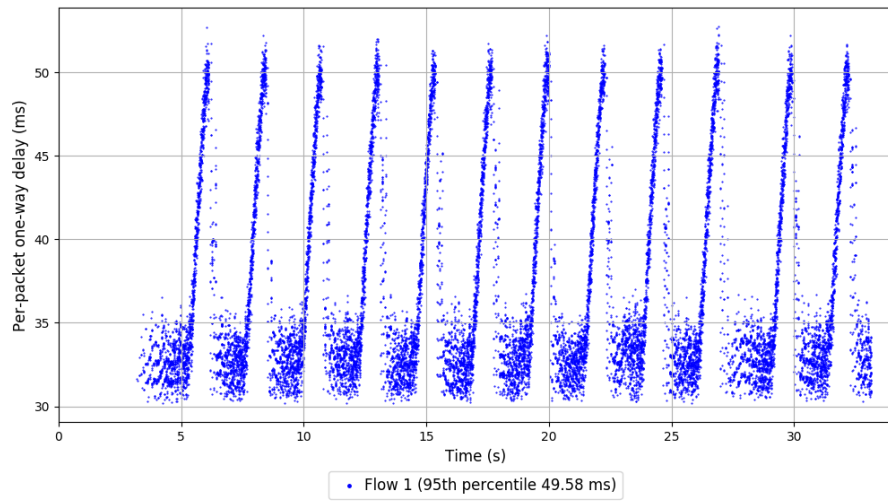
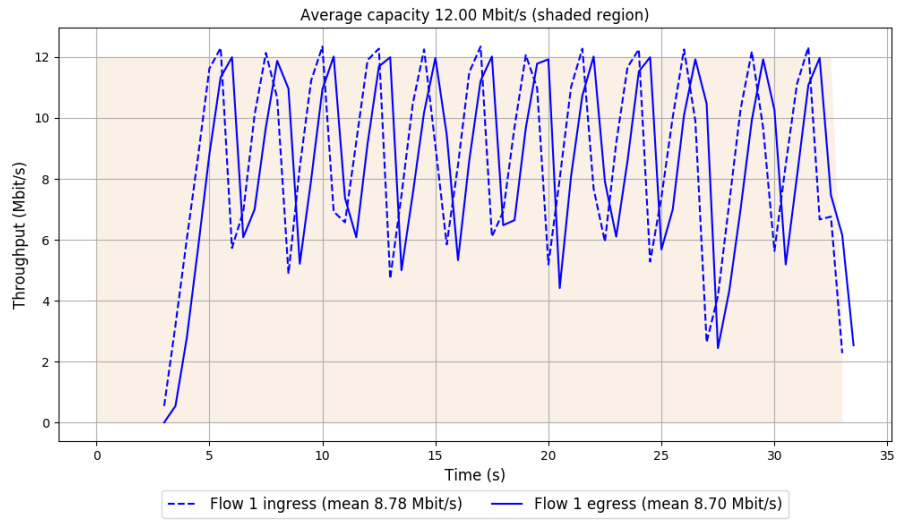
-- Flow 1:

Average throughput: 8.70 Mbit/s

95th percentile per-packet one-way delay: 49.578 ms

Loss rate: 0.97%

Run 3: Report of LEDBAT — Data Link



Run 1: Statistics of Muses_DecisionTree

Start at: 2020-04-16 09:14:14

End at: 2020-04-16 09:14:44

Below is generated by plot.py at 2020-04-16 09:47:07

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 8.18 Mbit/s (68.1% utilization)

95th percentile per-packet one-way delay: 33.560 ms

Loss rate: 0.75%

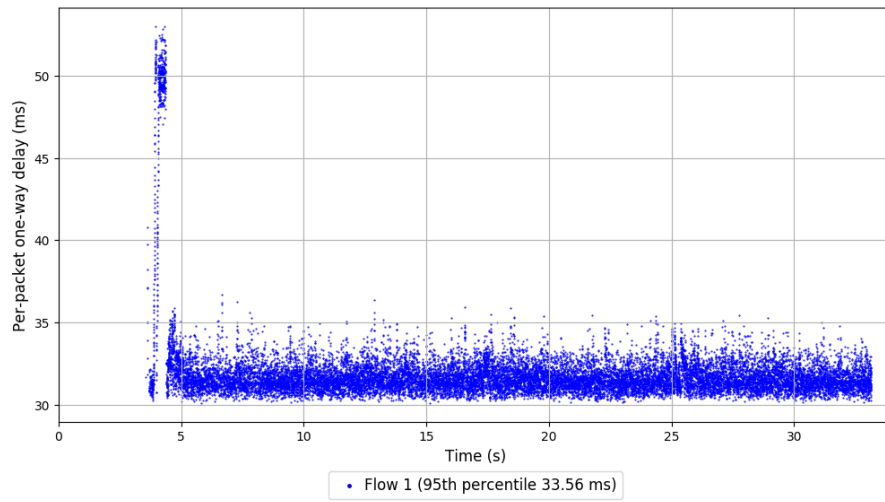
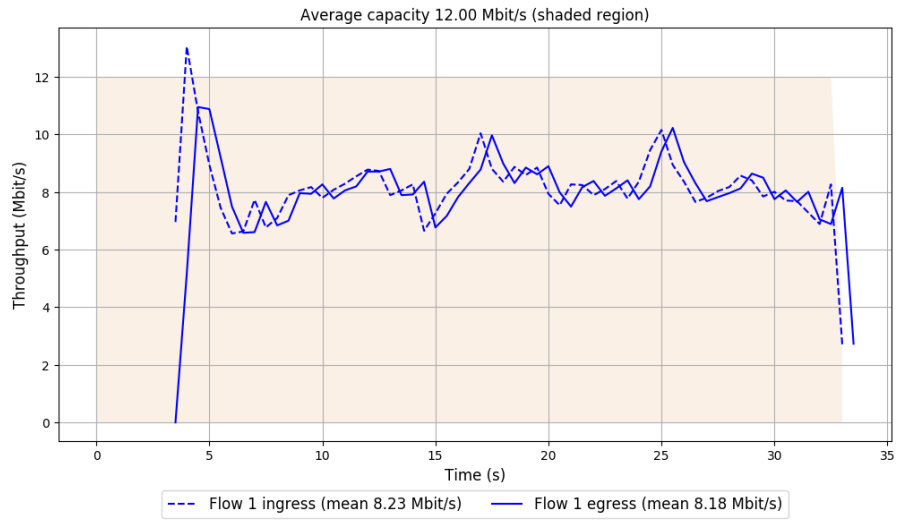
-- Flow 1:

Average throughput: 8.18 Mbit/s

95th percentile per-packet one-way delay: 33.560 ms

Loss rate: 0.75%

Run 1: Report of Muses_DecisionTree — Data Link



Run 2: Statistics of Muses_DecisionTree

Start at: 2020-04-16 09:28:24

End at: 2020-04-16 09:28:54

Below is generated by plot.py at 2020-04-16 09:47:09

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 8.00 Mbit/s (66.7% utilization)

95th percentile per-packet one-way delay: 33.781 ms

Loss rate: 0.73%

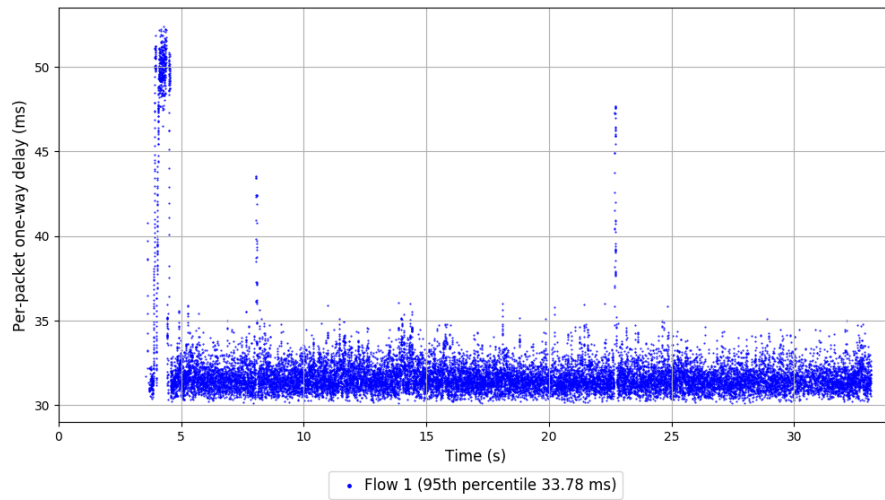
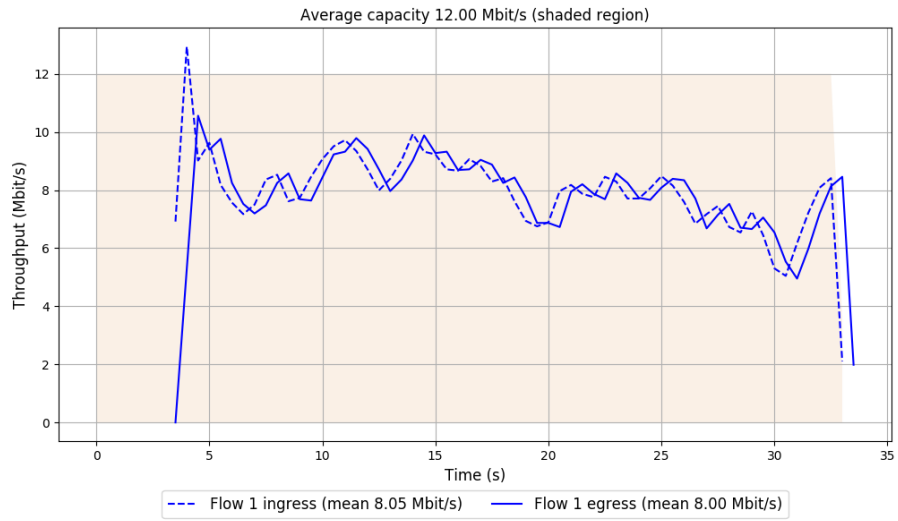
-- Flow 1:

Average throughput: 8.00 Mbit/s

95th percentile per-packet one-way delay: 33.781 ms

Loss rate: 0.73%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

Start at: 2020-04-16 09:42:32

End at: 2020-04-16 09:43:02

Below is generated by plot.py at 2020-04-16 09:47:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 7.36 Mbit/s (61.3% utilization)

95th percentile per-packet one-way delay: 33.585 ms

Loss rate: 0.69%

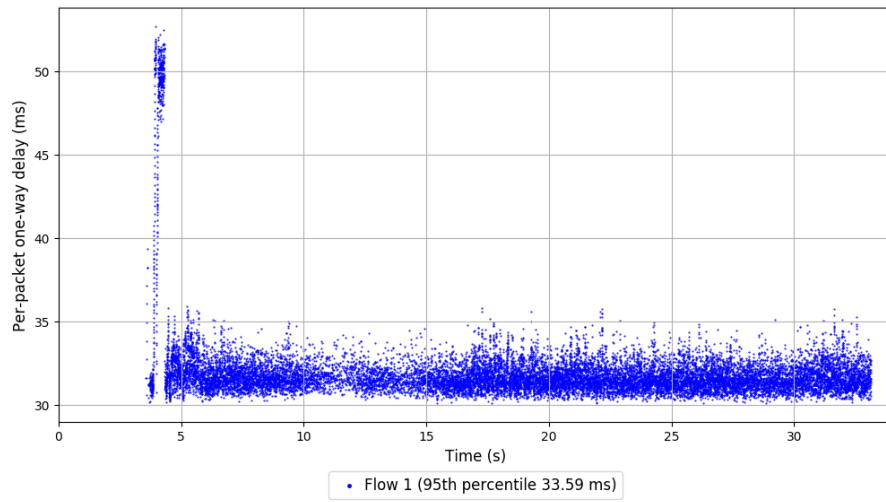
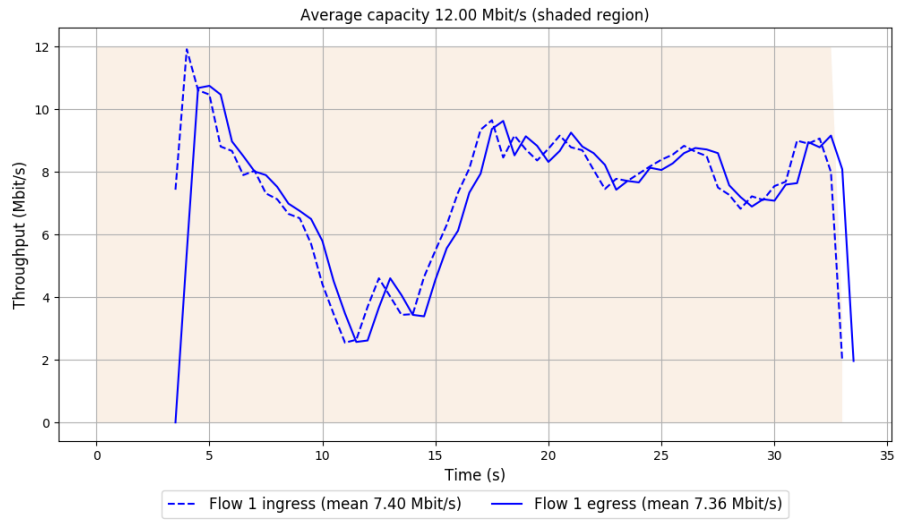
-- Flow 1:

Average throughput: 7.36 Mbit/s

95th percentile per-packet one-way delay: 33.585 ms

Loss rate: 0.69%

Run 3: Report of Muses_DecisionTree — Data Link



Run 1: Statistics of Muses_DecisionTreeH0

Start at: 2020-04-16 09:14:49

End at: 2020-04-16 09:15:19

Below is generated by plot.py at 2020-04-16 09:47:22

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.60 Mbit/s (96.7% utilization)

95th percentile per-packet one-way delay: 38.619 ms

Loss rate: 0.70%

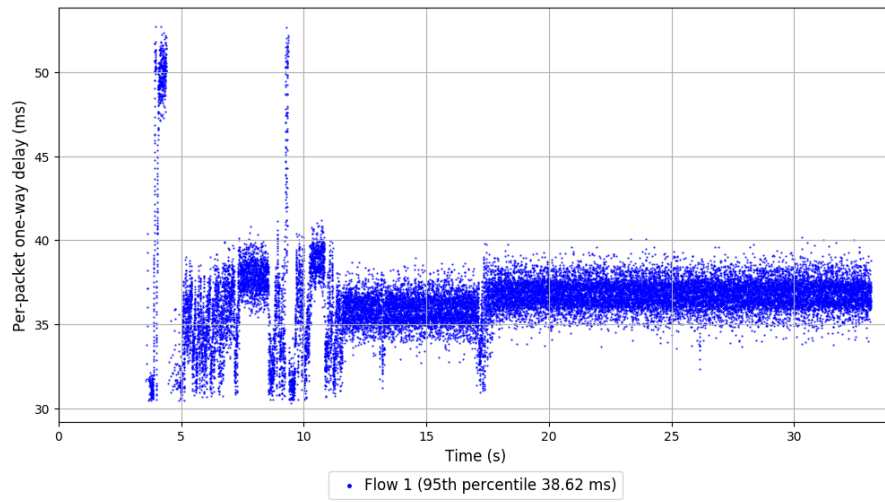
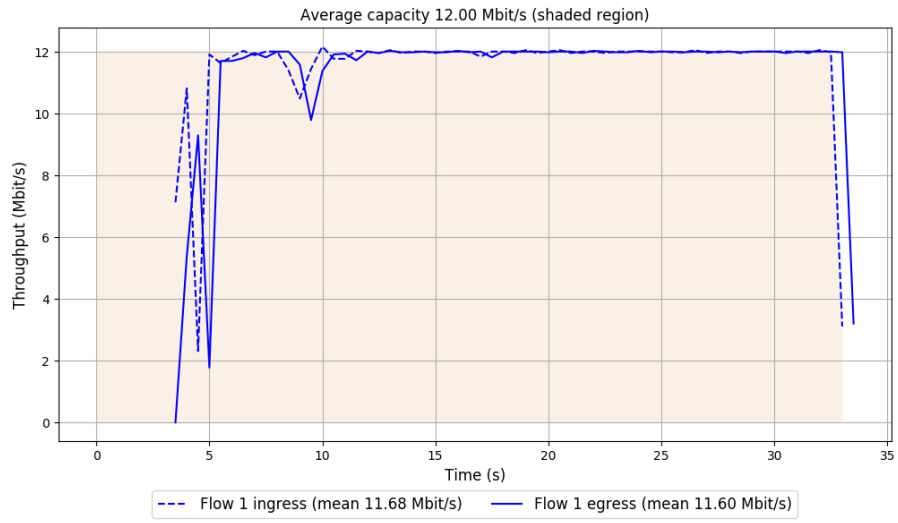
-- Flow 1:

Average throughput: 11.60 Mbit/s

95th percentile per-packet one-way delay: 38.619 ms

Loss rate: 0.70%

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2020-04-16 09:28:59

End at: 2020-04-16 09:29:29

Below is generated by plot.py at 2020-04-16 09:47:25

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.70 Mbit/s (97.5% utilization)

95th percentile per-packet one-way delay: 38.713 ms

Loss rate: 0.56%

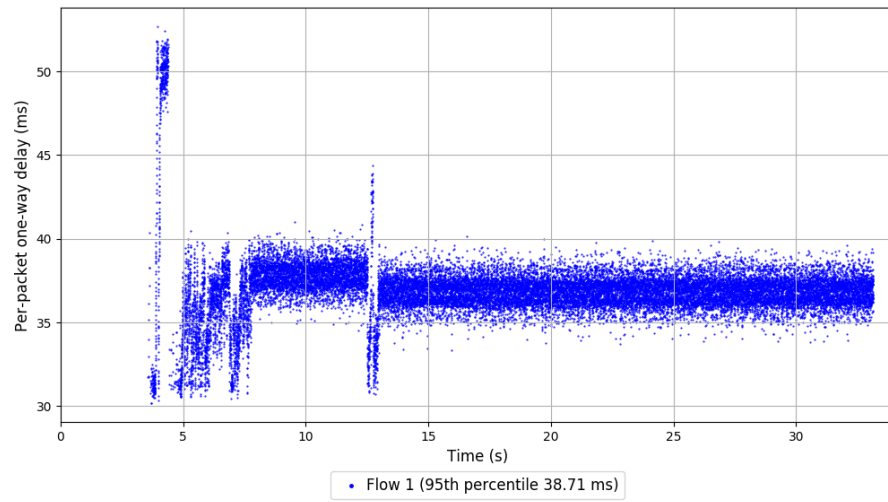
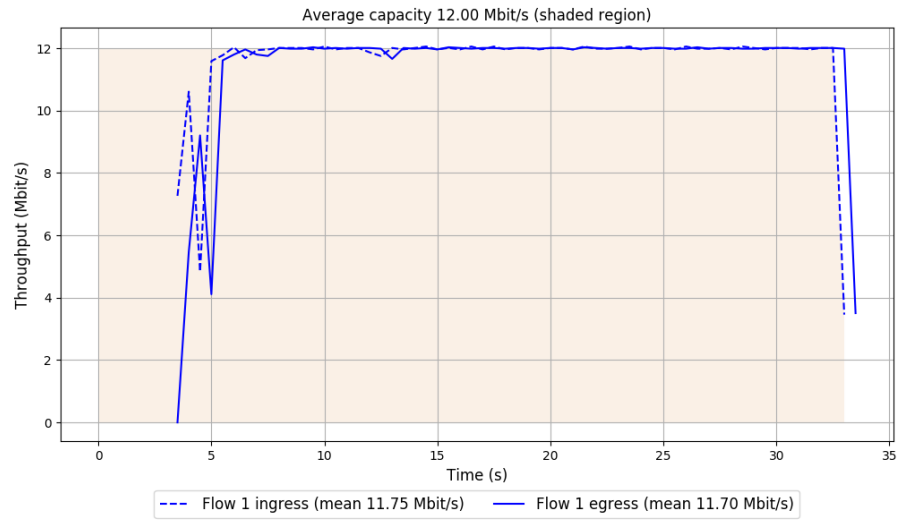
-- Flow 1:

Average throughput: 11.70 Mbit/s

95th percentile per-packet one-way delay: 38.713 ms

Loss rate: 0.56%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2020-04-16 09:43:07

End at: 2020-04-16 09:43:37

Below is generated by plot.py at 2020-04-16 09:47:28

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.50 Mbit/s (95.9% utilization)

95th percentile per-packet one-way delay: 41.001 ms

Loss rate: 0.60%

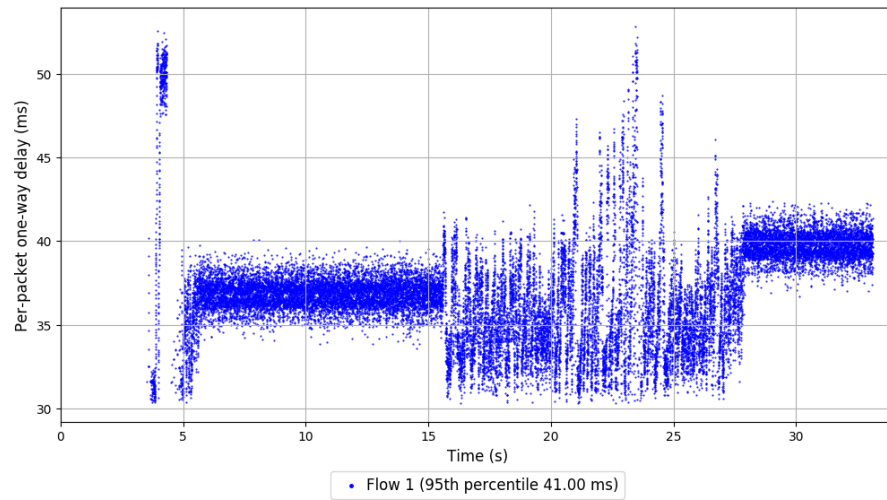
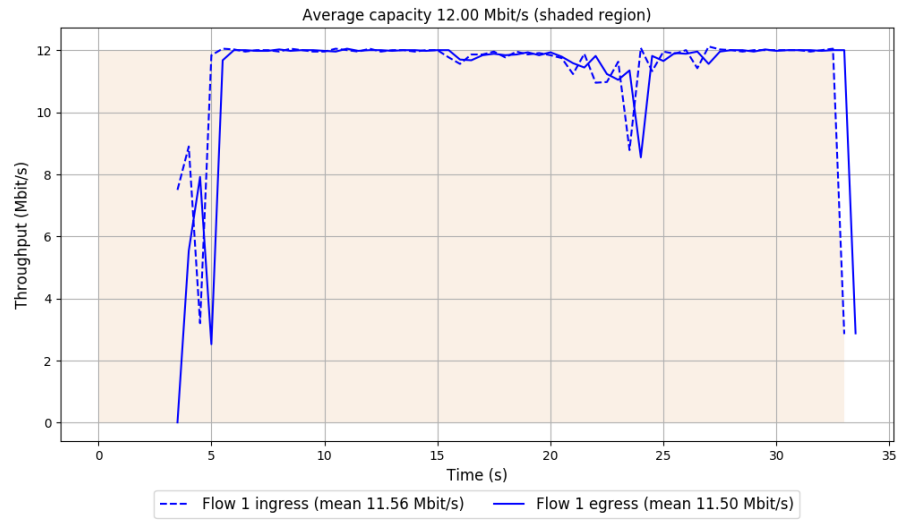
-- Flow 1:

Average throughput: 11.50 Mbit/s

95th percentile per-packet one-way delay: 41.001 ms

Loss rate: 0.60%

Run 3: Report of Muses_DecisionTreeH0 — Data Link



Run 1: Statistics of Muses_DecisionTreeR0

Start at: 2020-04-16 09:13:39

End at: 2020-04-16 09:14:09

Below is generated by plot.py at 2020-04-16 09:47:28

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 9.49 Mbit/s (79.1% utilization)

95th percentile per-packet one-way delay: 33.617 ms

Loss rate: 0.63%

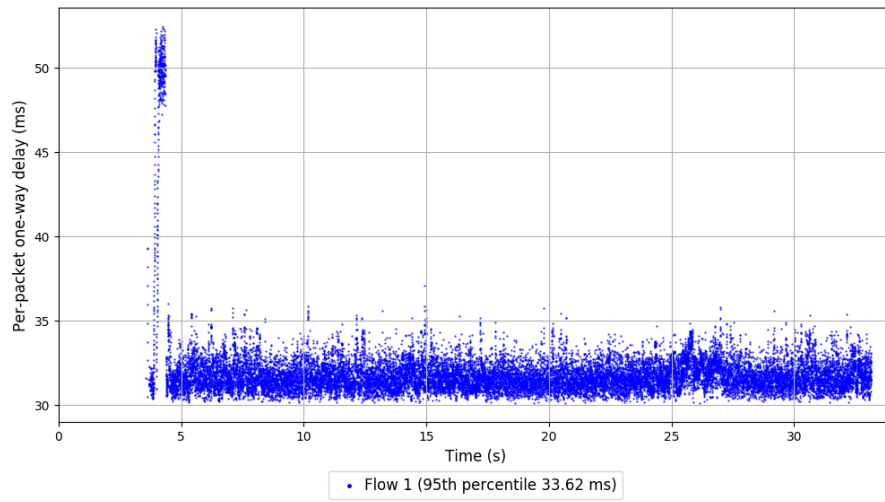
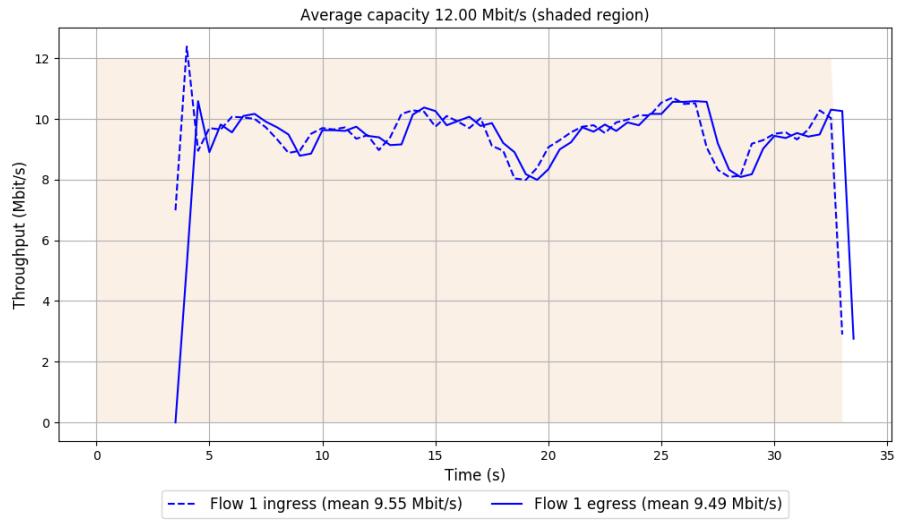
-- Flow 1:

Average throughput: 9.49 Mbit/s

95th percentile per-packet one-way delay: 33.617 ms

Loss rate: 0.63%

Run 1: Report of Muses_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2020-04-16 09:27:48

End at: 2020-04-16 09:28:18

Below is generated by plot.py at 2020-04-16 09:47:28

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 8.46 Mbit/s (70.5% utilization)

95th percentile per-packet one-way delay: 33.508 ms

Loss rate: 0.72%

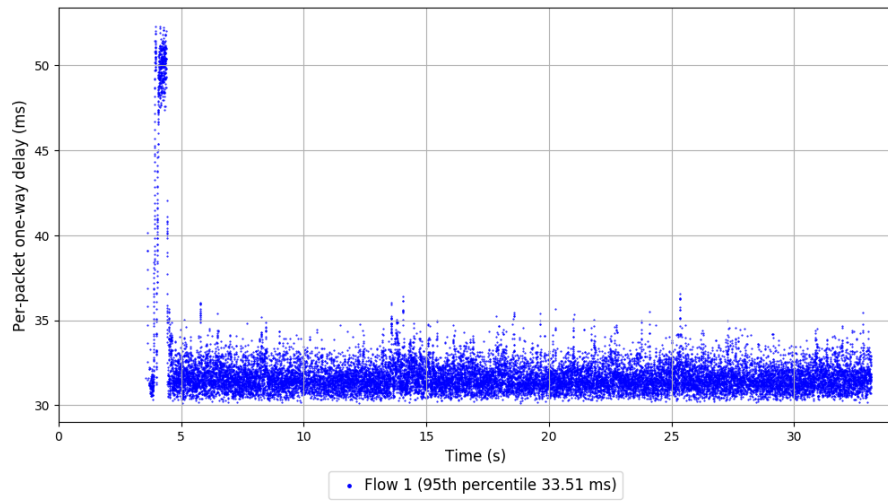
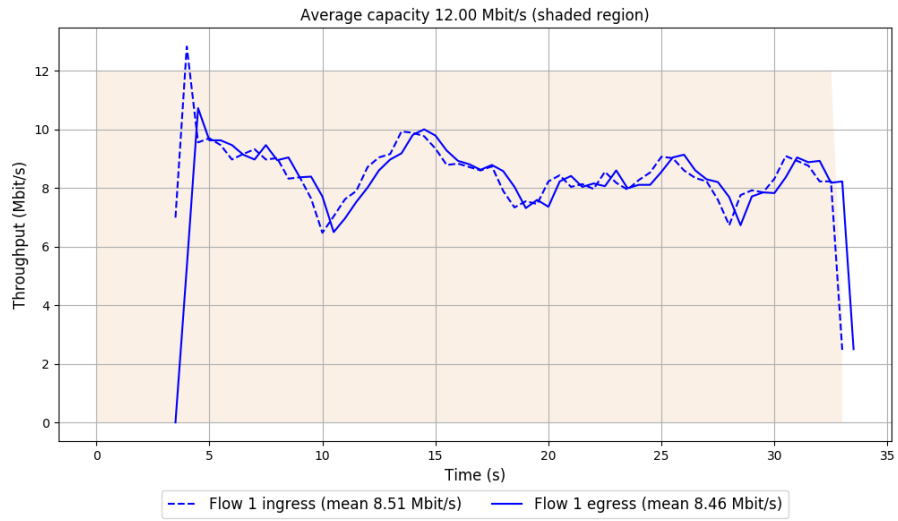
-- Flow 1:

Average throughput: 8.46 Mbit/s

95th percentile per-packet one-way delay: 33.508 ms

Loss rate: 0.72%

Run 2: Report of Muses_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2020-04-16 09:41:57

End at: 2020-04-16 09:42:27

Below is generated by plot.py at 2020-04-16 09:47:30

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 8.16 Mbit/s (68.0% utilization)

95th percentile per-packet one-way delay: 33.423 ms

Loss rate: 0.67%

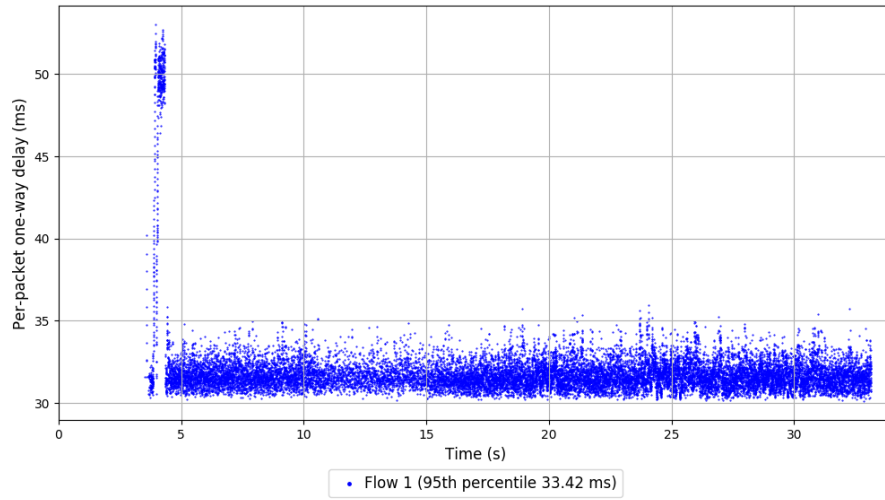
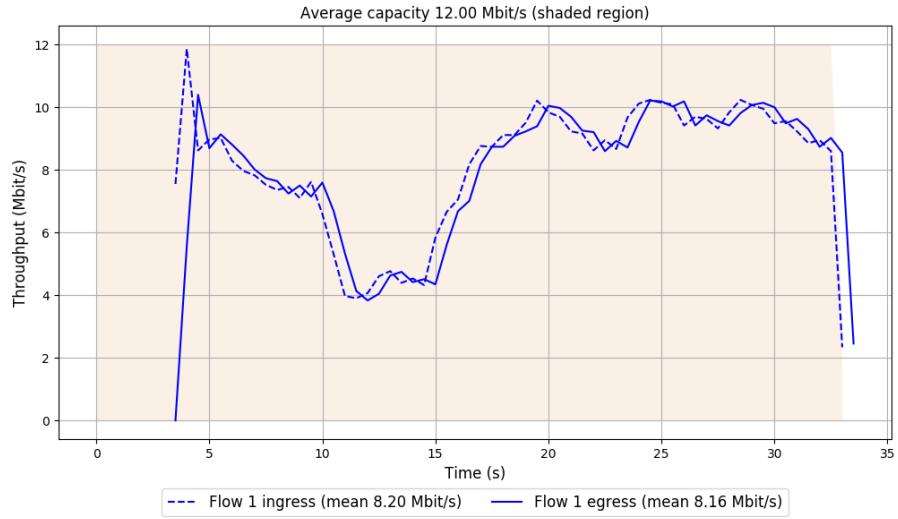
-- Flow 1:

Average throughput: 8.16 Mbit/s

95th percentile per-packet one-way delay: 33.423 ms

Loss rate: 0.67%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2020-04-16 09:06:33

End at: 2020-04-16 09:07:03

Below is generated by plot.py at 2020-04-16 09:47:34

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 9.59 Mbit/s (79.9% utilization)

95th percentile per-packet one-way delay: 37.811 ms

Loss rate: 0.86%

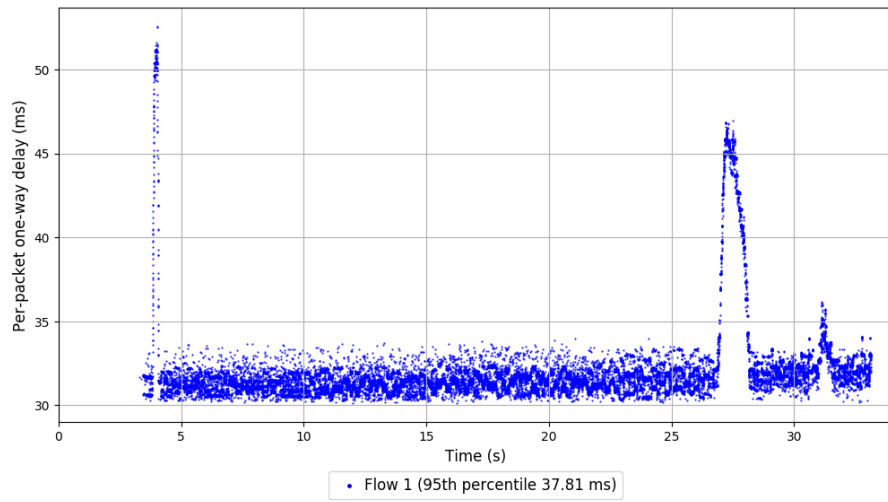
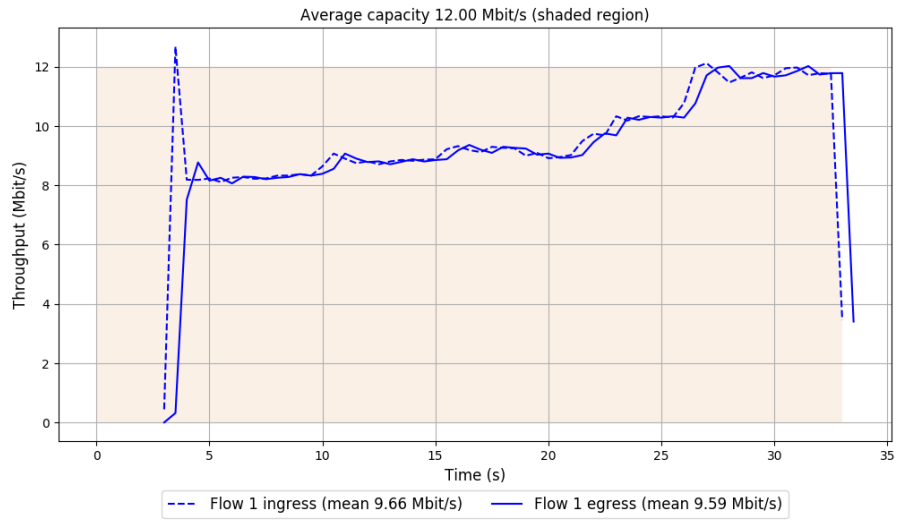
-- Flow 1:

Average throughput: 9.59 Mbit/s

95th percentile per-packet one-way delay: 37.811 ms

Loss rate: 0.86%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2020-04-16 09:20:42

End at: 2020-04-16 09:21:12

Below is generated by plot.py at 2020-04-16 09:47:39

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.36 Mbit/s (86.3% utilization)

95th percentile per-packet one-way delay: 32.773 ms

Loss rate: 0.82%

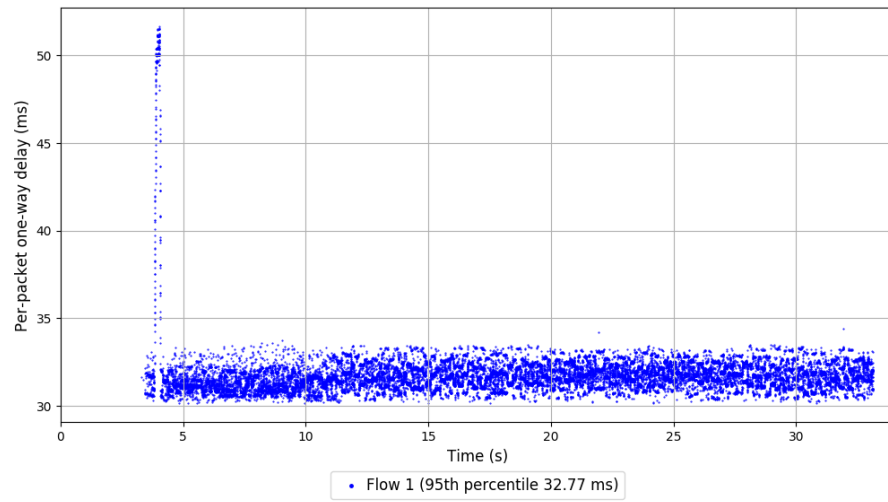
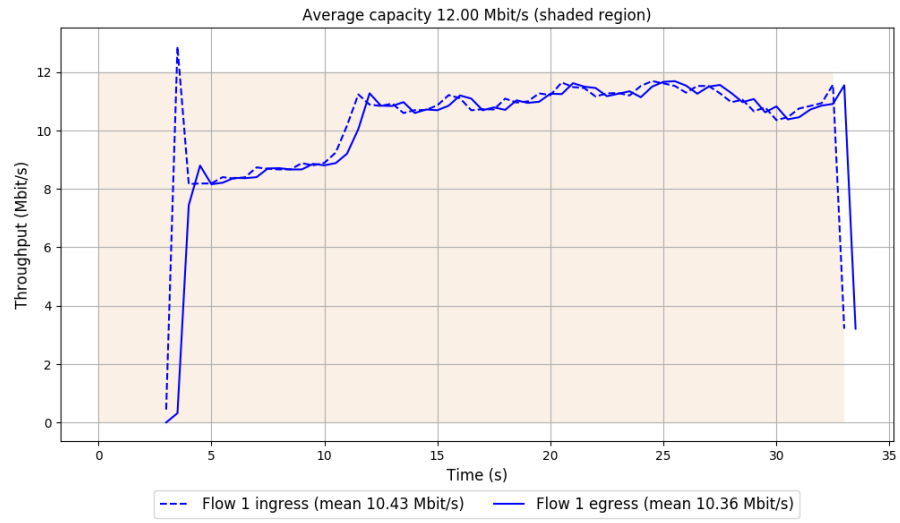
-- Flow 1:

Average throughput: 10.36 Mbit/s

95th percentile per-packet one-way delay: 32.773 ms

Loss rate: 0.82%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2020-04-16 09:34:52

End at: 2020-04-16 09:35:22

Below is generated by plot.py at 2020-04-16 09:47:43

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 9.84 Mbit/s (82.0% utilization)

95th percentile per-packet one-way delay: 39.592 ms

Loss rate: 0.87%

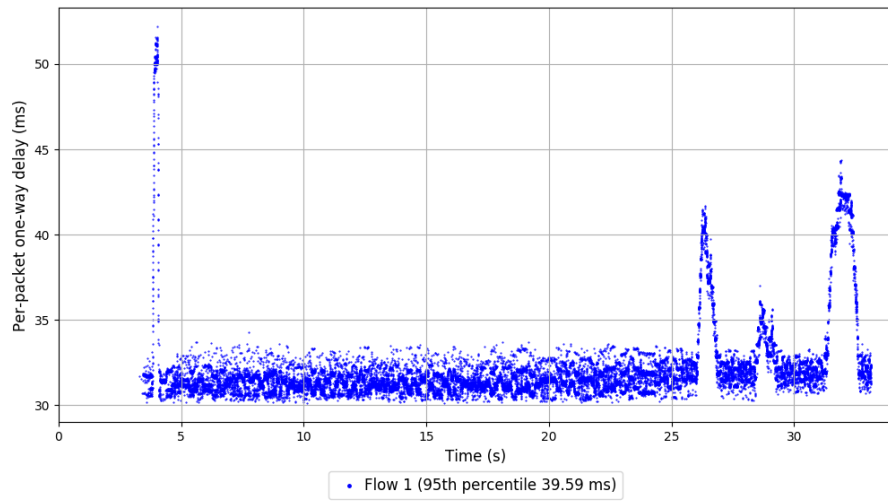
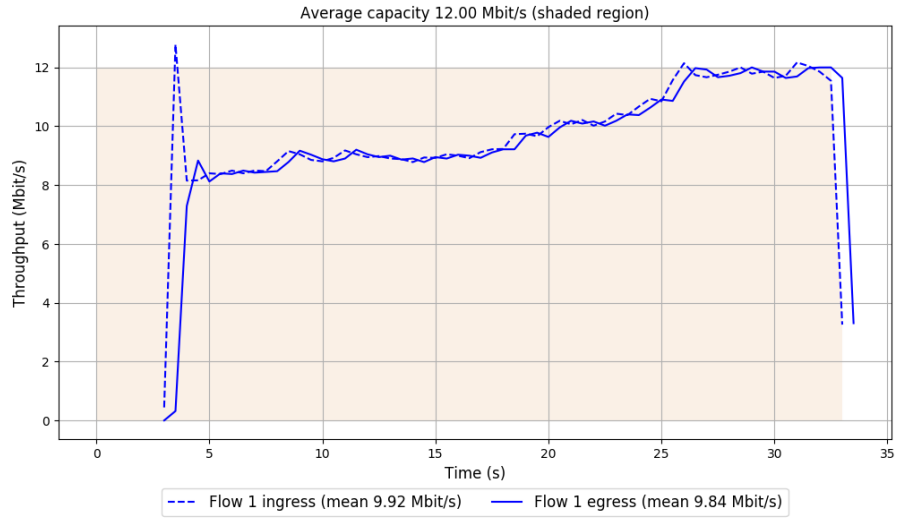
-- Flow 1:

Average throughput: 9.84 Mbit/s

95th percentile per-packet one-way delay: 39.592 ms

Loss rate: 0.87%

Run 3: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2020-04-16 09:09:29

End at: 2020-04-16 09:09:59

Below is generated by plot.py at 2020-04-16 09:48:04

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.32 Mbit/s (94.3% utilization)

95th percentile per-packet one-way delay: 50.501 ms

Loss rate: 1.47%

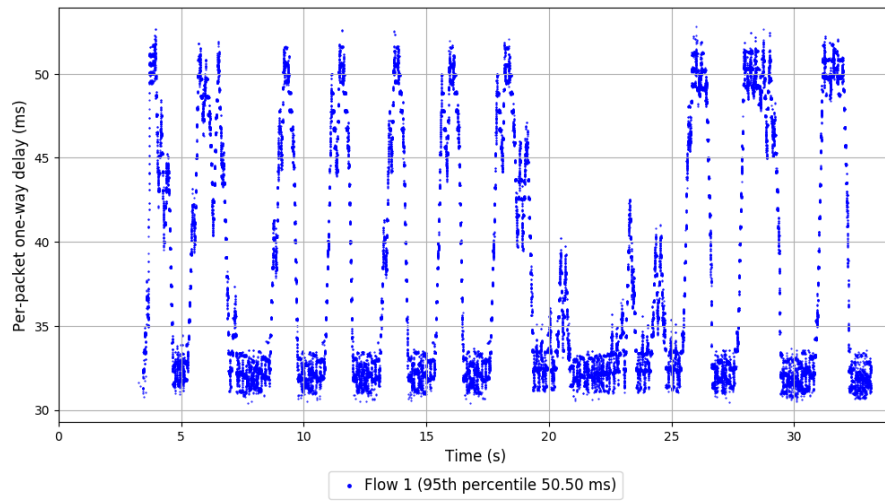
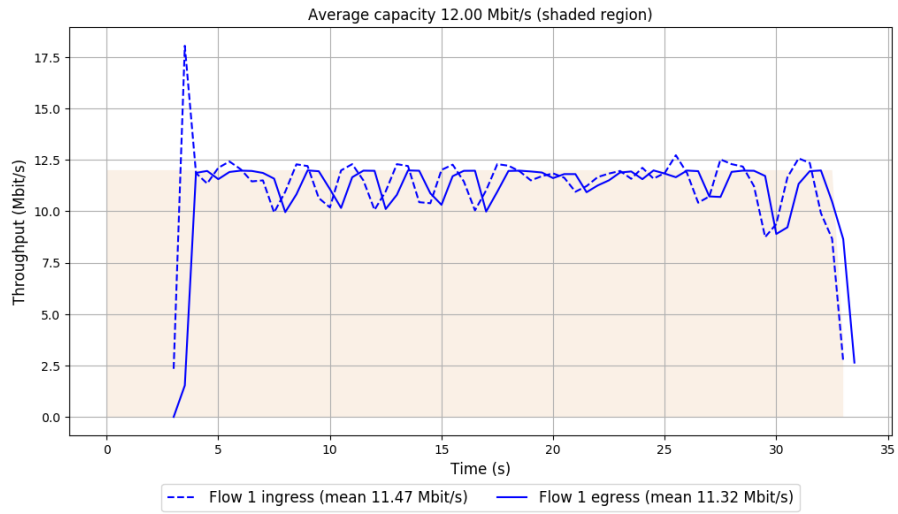
-- Flow 1:

Average throughput: 11.32 Mbit/s

95th percentile per-packet one-way delay: 50.501 ms

Loss rate: 1.47%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2020-04-16 09:23:38

End at: 2020-04-16 09:24:08

Below is generated by plot.py at 2020-04-16 09:48:04

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.98 Mbit/s (91.5% utilization)

95th percentile per-packet one-way delay: 50.628 ms

Loss rate: 1.11%

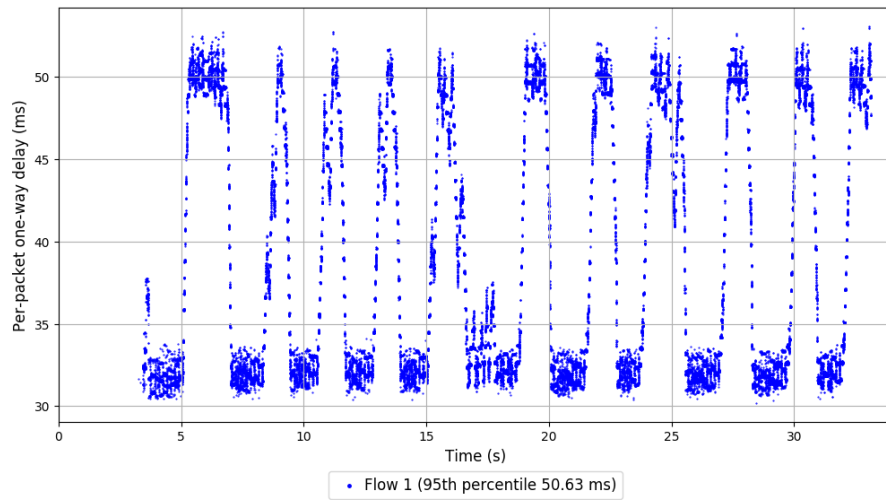
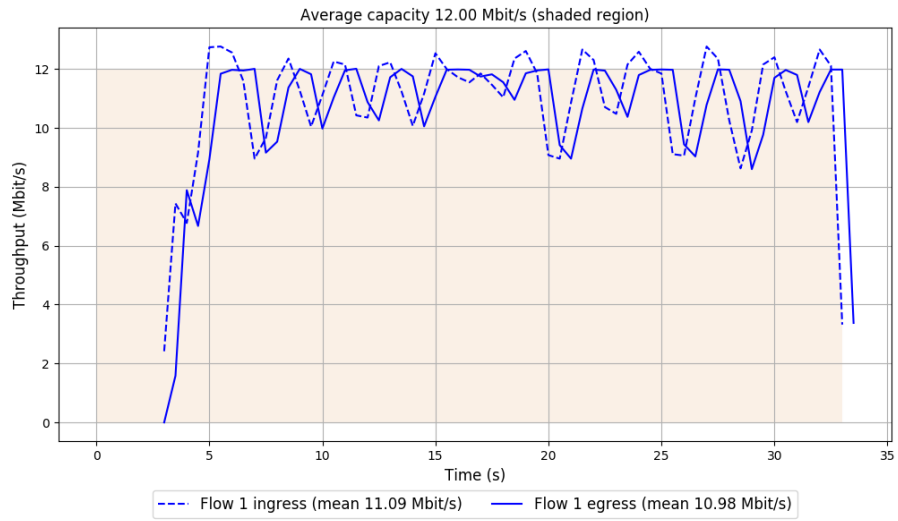
-- Flow 1:

Average throughput: 10.98 Mbit/s

95th percentile per-packet one-way delay: 50.628 ms

Loss rate: 1.11%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2020-04-16 09:37:48

End at: 2020-04-16 09:38:18

Below is generated by plot.py at 2020-04-16 09:48:06

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.08 Mbit/s (92.3% utilization)

95th percentile per-packet one-way delay: 50.624 ms

Loss rate: 0.93%

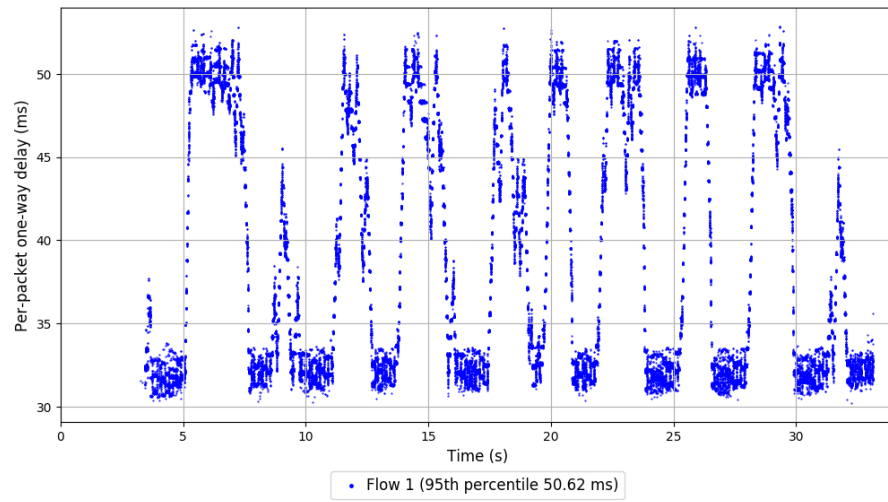
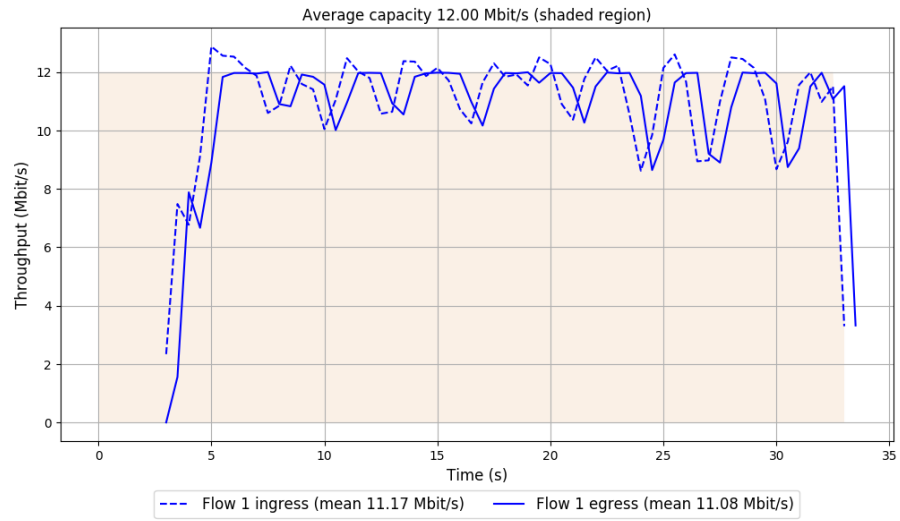
-- Flow 1:

Average throughput: 11.08 Mbit/s

95th percentile per-packet one-way delay: 50.624 ms

Loss rate: 0.93%

Run 3: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2020-04-16 09:04:47

End at: 2020-04-16 09:05:17

Below is generated by plot.py at 2020-04-16 09:48:06

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.67 Mbit/s (97.3% utilization)

95th percentile per-packet one-way delay: 49.816 ms

Loss rate: 0.36%

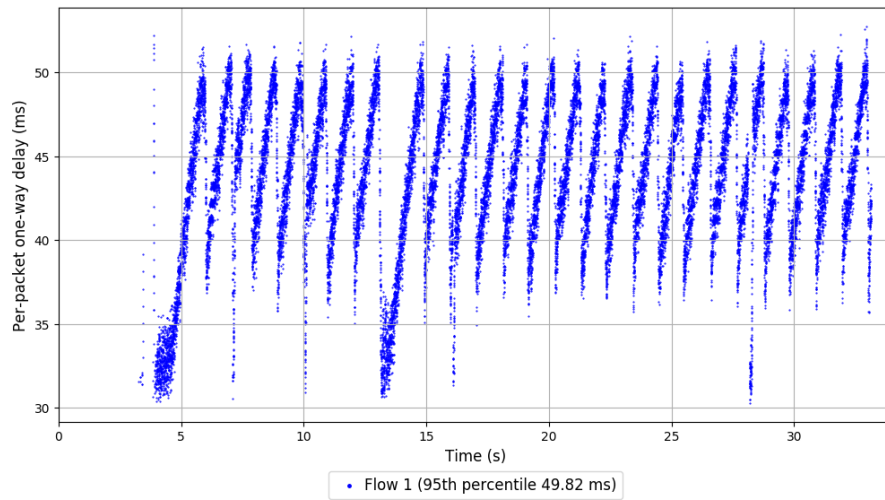
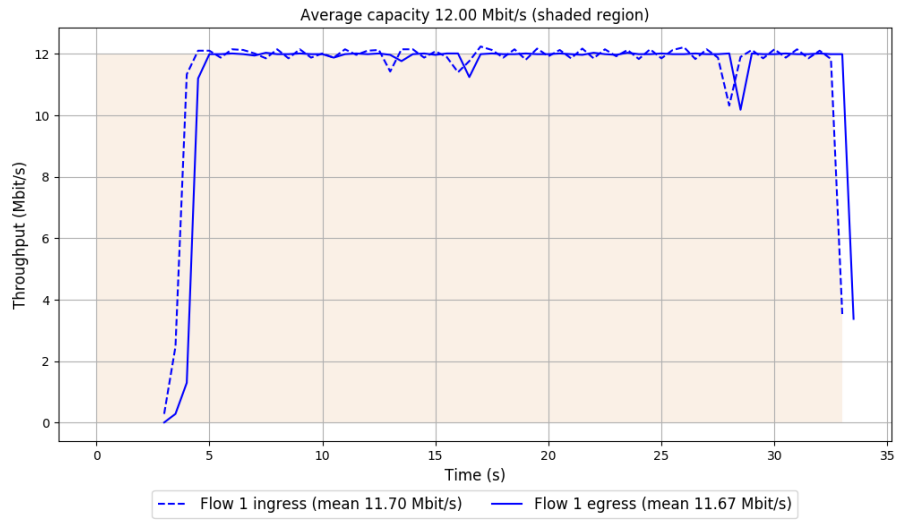
-- Flow 1:

Average throughput: 11.67 Mbit/s

95th percentile per-packet one-way delay: 49.816 ms

Loss rate: 0.36%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2020-04-16 09:18:56

End at: 2020-04-16 09:19:26

Below is generated by plot.py at 2020-04-16 09:48:06

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.59 Mbit/s (96.6% utilization)

95th percentile per-packet one-way delay: 49.960 ms

Loss rate: 0.37%

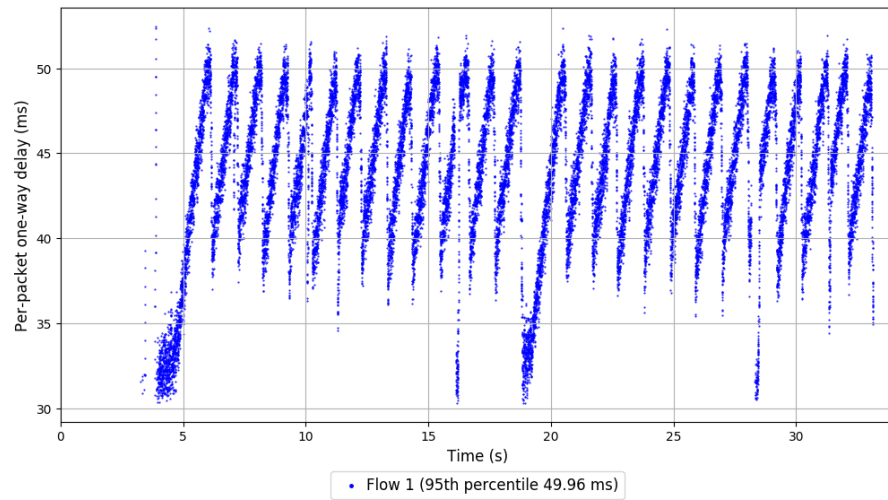
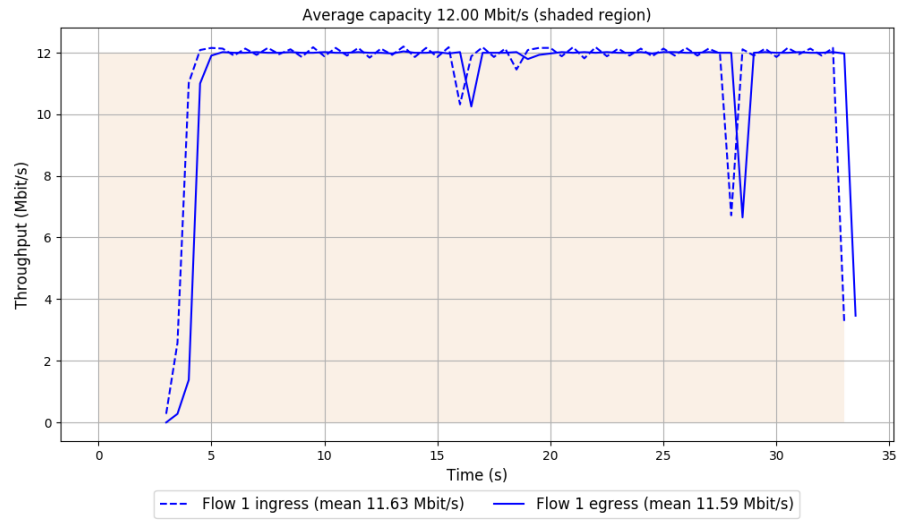
-- Flow 1:

Average throughput: 11.59 Mbit/s

95th percentile per-packet one-way delay: 49.960 ms

Loss rate: 0.37%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2020-04-16 09:33:06

End at: 2020-04-16 09:33:36

Below is generated by plot.py at 2020-04-16 09:48:06

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.65 Mbit/s (97.1% utilization)

95th percentile per-packet one-way delay: 49.953 ms

Loss rate: 0.34%

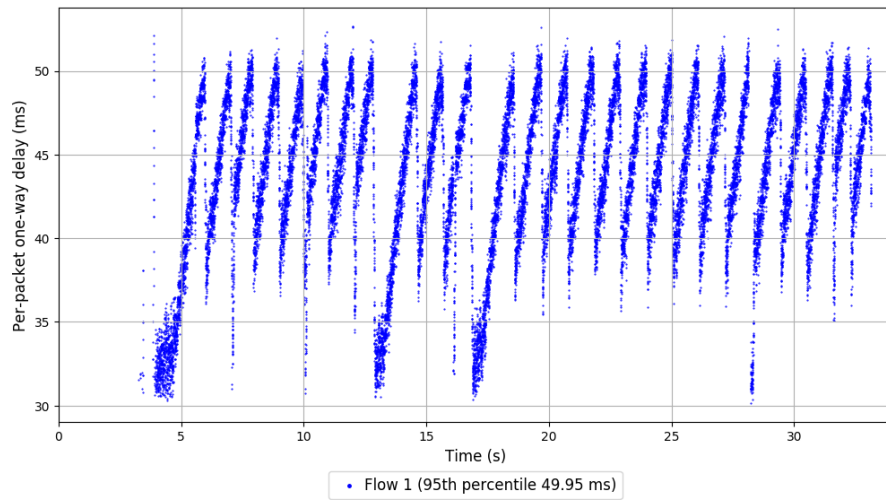
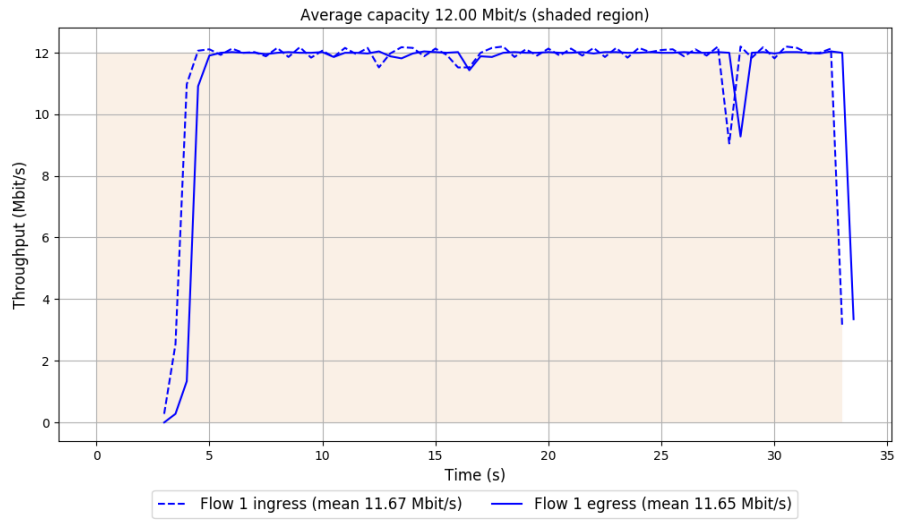
-- Flow 1:

Average throughput: 11.65 Mbit/s

95th percentile per-packet one-way delay: 49.953 ms

Loss rate: 0.34%

Run 3: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2020-04-16 09:07:43

End at: 2020-04-16 09:08:13

Below is generated by plot.py at 2020-04-16 09:48:06

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 0.21 Mbit/s (1.8% utilization)

95th percentile per-packet one-way delay: 31.618 ms

Loss rate: 0.13%

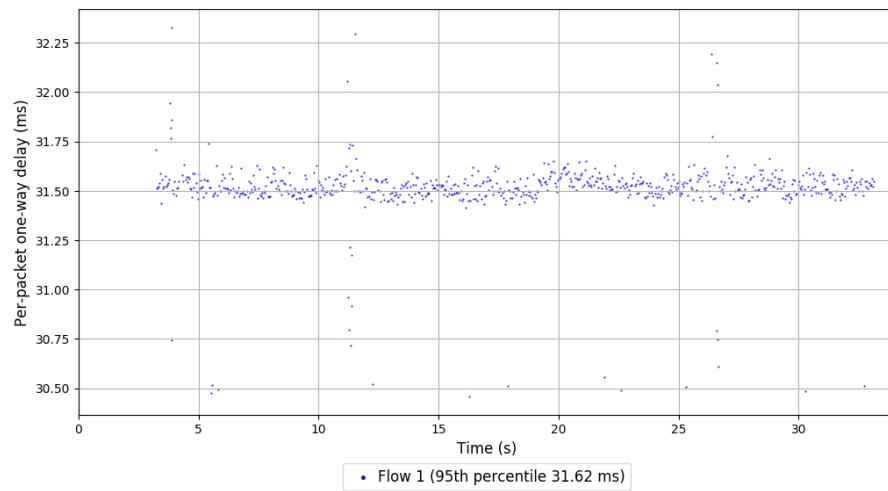
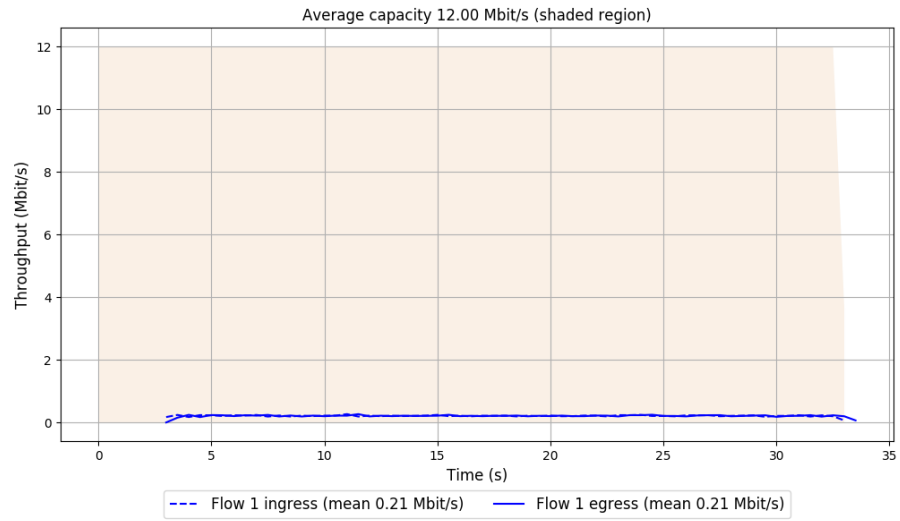
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 31.618 ms

Loss rate: 0.13%

Run 1: Report of SCReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2020-04-16 09:21:52

End at: 2020-04-16 09:22:22

Below is generated by plot.py at 2020-04-16 09:48:06

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 0.21 Mbit/s (1.8% utilization)

95th percentile per-packet one-way delay: 31.763 ms

Loss rate: 0.13%

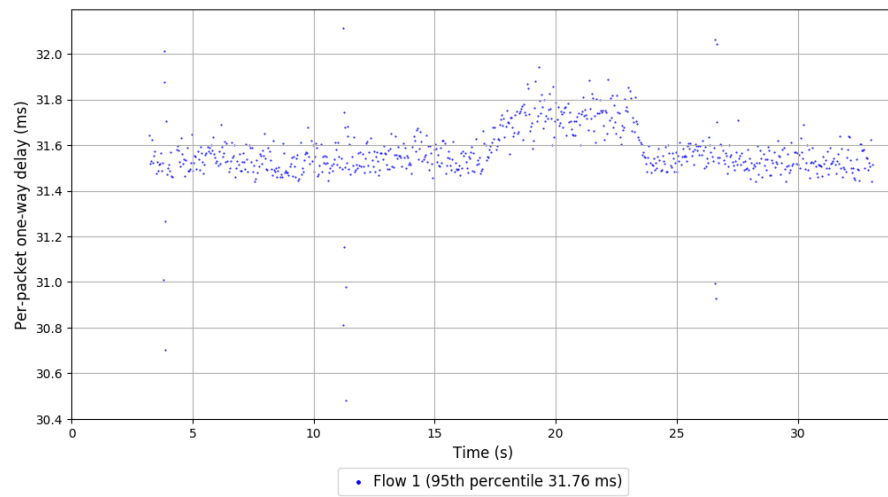
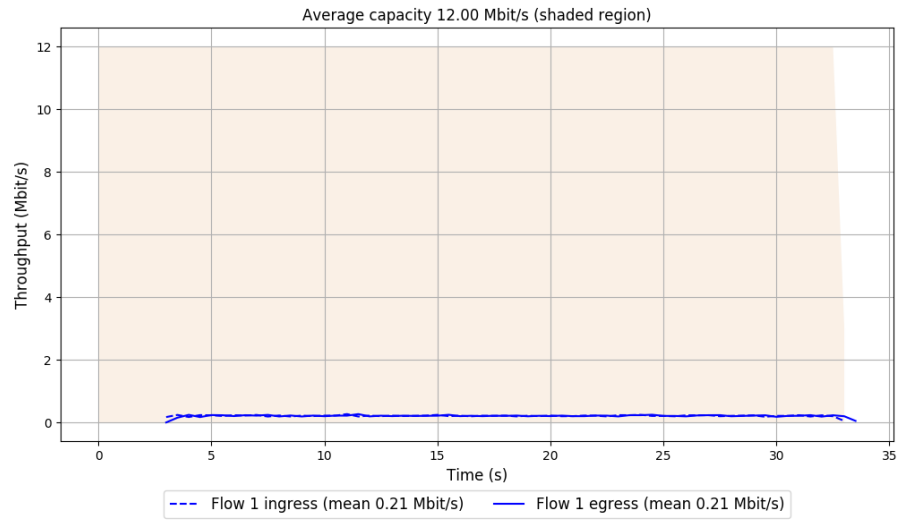
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 31.763 ms

Loss rate: 0.13%

Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2020-04-16 09:36:02

End at: 2020-04-16 09:36:32

Below is generated by plot.py at 2020-04-16 09:48:06

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 0.21 Mbit/s (1.8% utilization)

95th percentile per-packet one-way delay: 31.630 ms

Loss rate: 0.13%

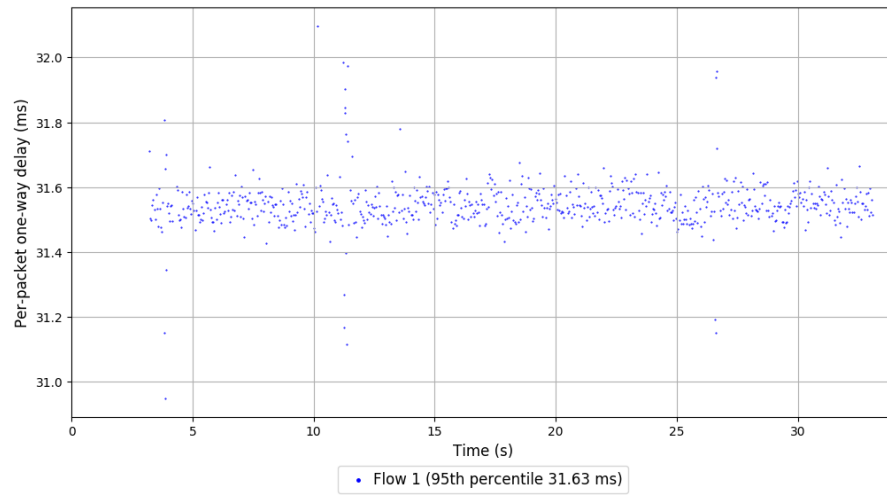
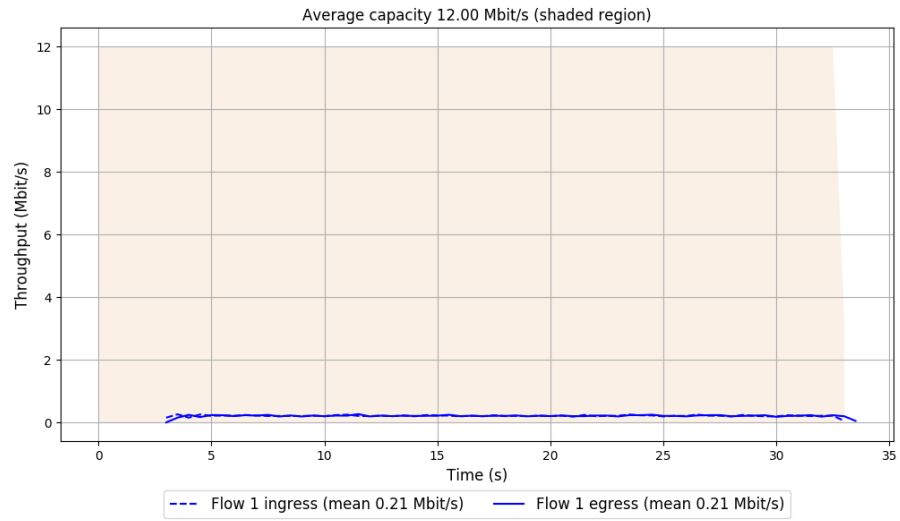
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 31.630 ms

Loss rate: 0.13%

Run 3: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2020-04-16 09:12:28

End at: 2020-04-16 09:12:58

Below is generated by plot.py at 2020-04-16 09:48:10

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 4.21 Mbit/s (35.1% utilization)

95th percentile per-packet one-way delay: 48.838 ms

Loss rate: 8.21%

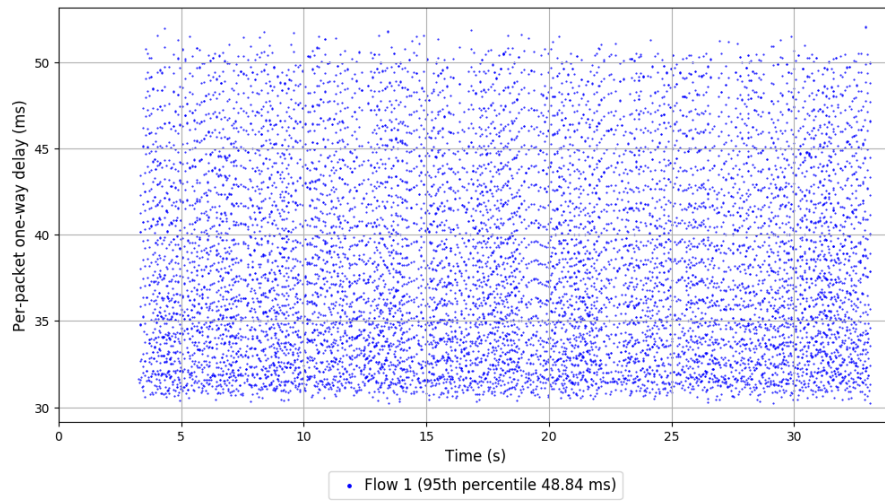
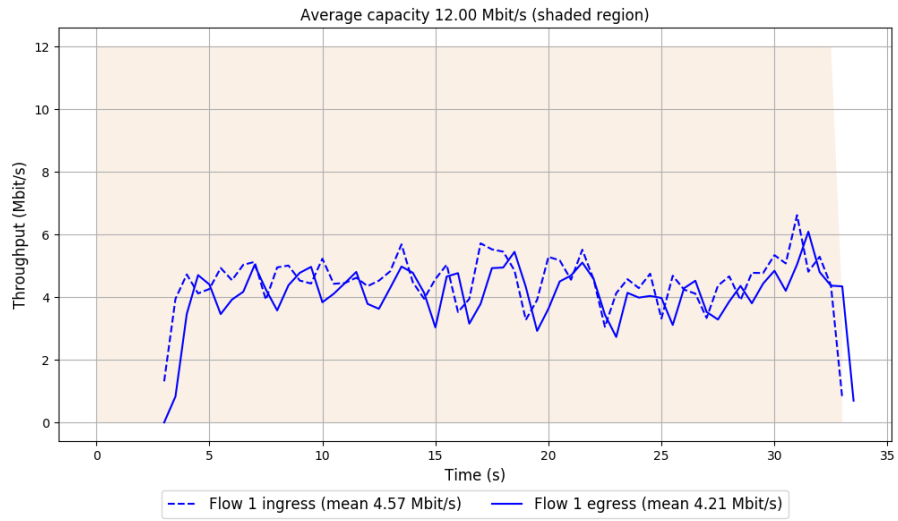
-- Flow 1:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 48.838 ms

Loss rate: 8.21%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2020-04-16 09:26:38

End at: 2020-04-16 09:27:08

Below is generated by plot.py at 2020-04-16 09:48:11

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 4.34 Mbit/s (36.2% utilization)

95th percentile per-packet one-way delay: 48.980 ms

Loss rate: 7.89%

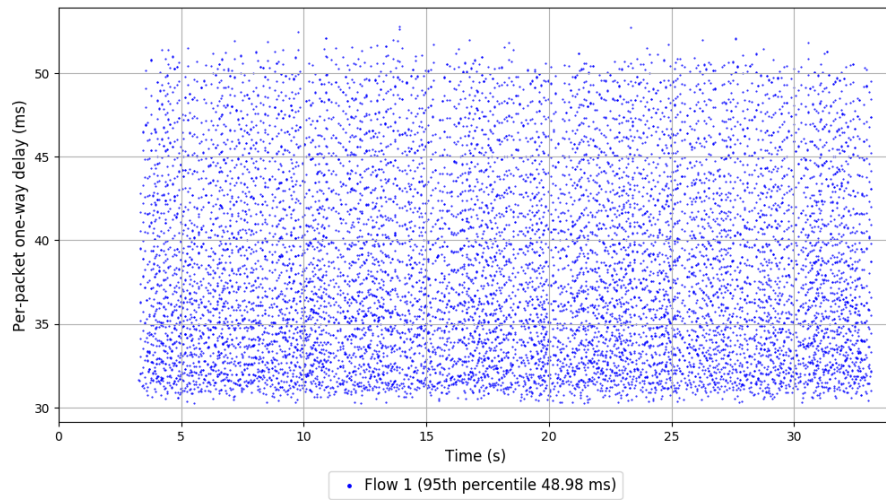
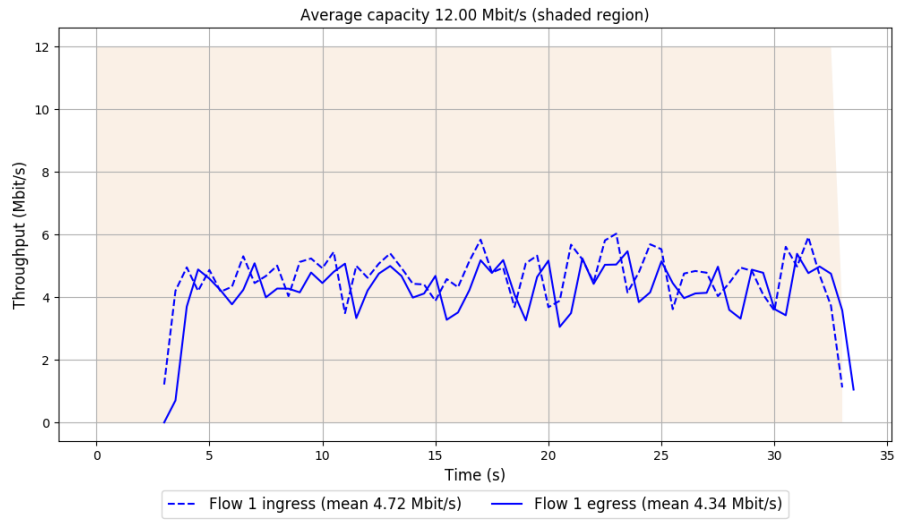
-- Flow 1:

Average throughput: 4.34 Mbit/s

95th percentile per-packet one-way delay: 48.980 ms

Loss rate: 7.89%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2020-04-16 09:40:47

End at: 2020-04-16 09:41:17

Below is generated by plot.py at 2020-04-16 09:48:12

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 4.40 Mbit/s (36.7% utilization)

95th percentile per-packet one-way delay: 48.771 ms

Loss rate: 6.92%

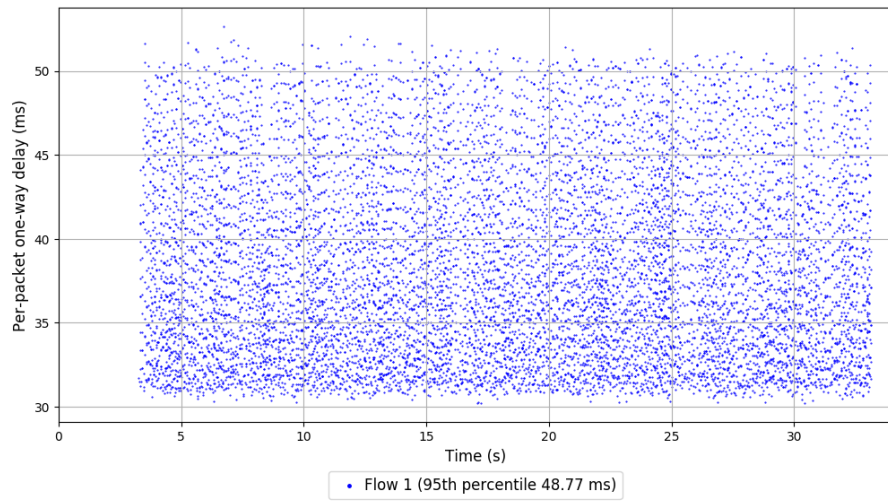
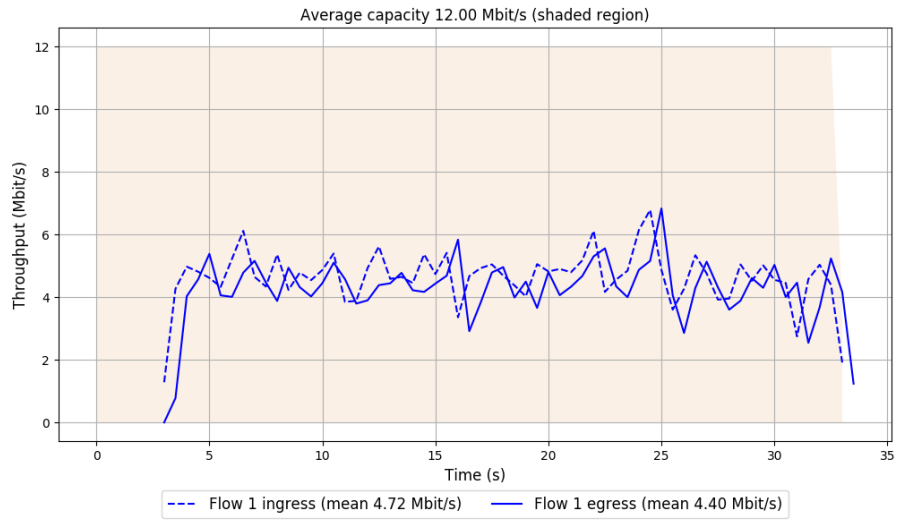
-- Flow 1:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 48.771 ms

Loss rate: 6.92%

Run 3: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2020-04-16 09:08:54

End at: 2020-04-16 09:09:24

Below is generated by plot.py at 2020-04-16 09:48:35

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.09 Mbit/s (92.4% utilization)

95th percentile per-packet one-way delay: 32.780 ms

Loss rate: 0.72%

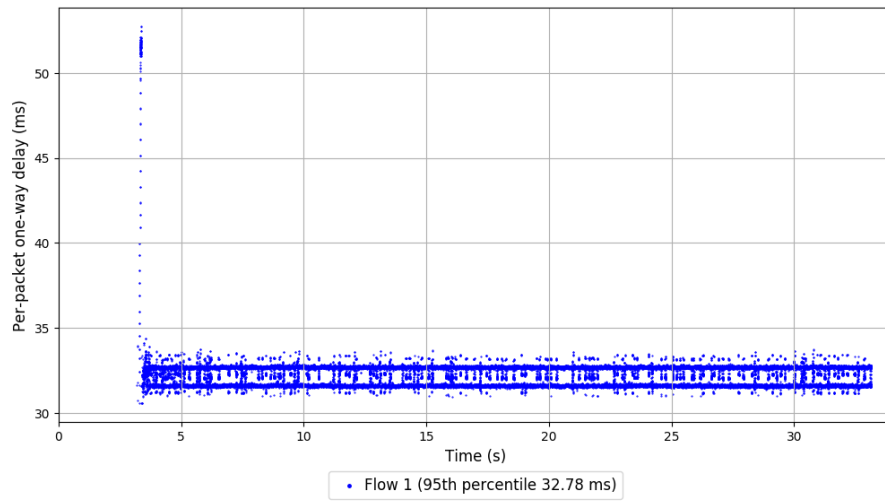
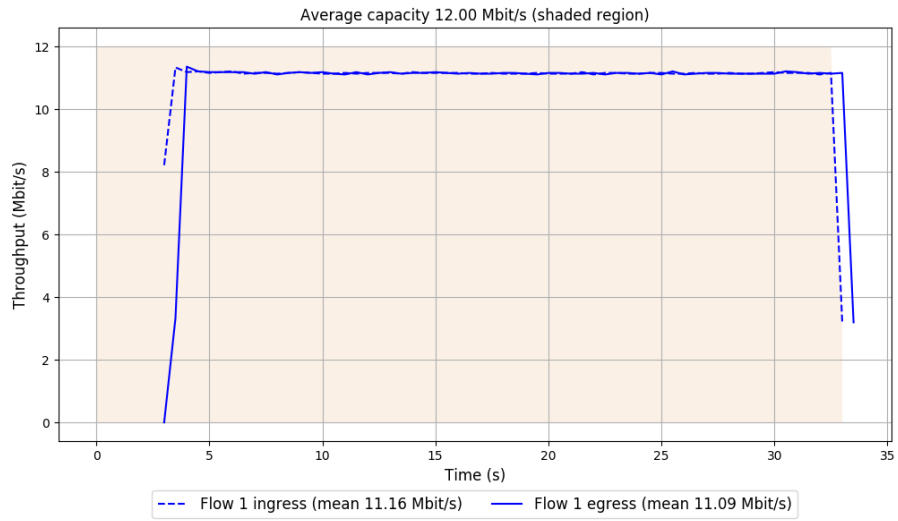
-- Flow 1:

Average throughput: 11.09 Mbit/s

95th percentile per-packet one-way delay: 32.780 ms

Loss rate: 0.72%

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



Run 2: Statistics of TaoVA-100x

Start at: 2020-04-16 09:23:03

End at: 2020-04-16 09:23:33

Below is generated by plot.py at 2020-04-16 09:48:38

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.09 Mbit/s (92.5% utilization)

95th percentile per-packet one-way delay: 32.801 ms

Loss rate: 0.72%

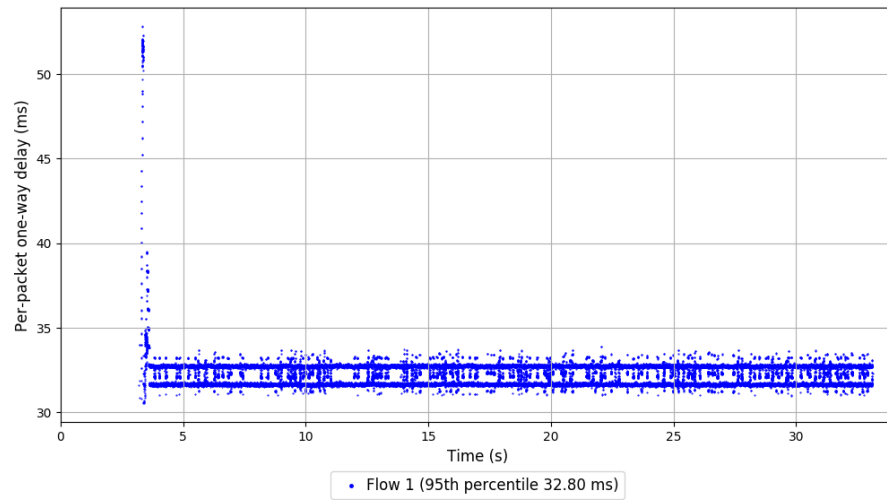
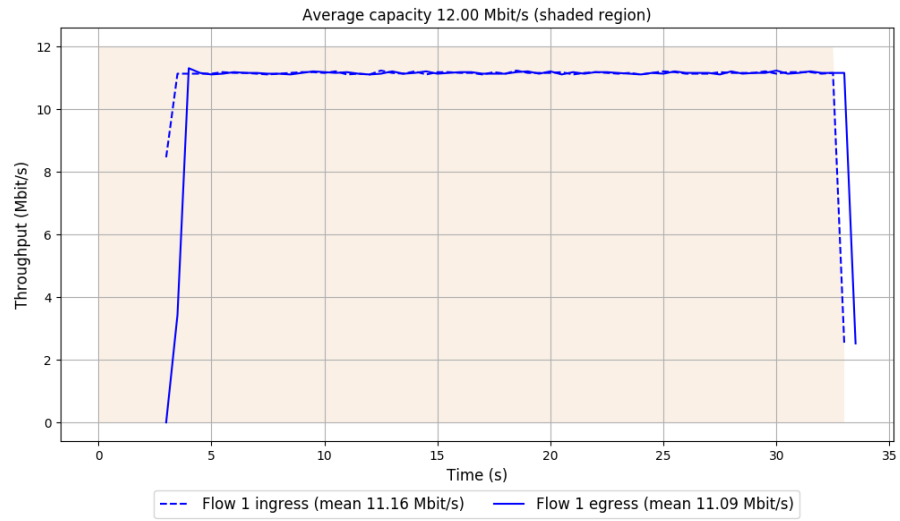
-- Flow 1:

Average throughput: 11.09 Mbit/s

95th percentile per-packet one-way delay: 32.801 ms

Loss rate: 0.72%

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



Run 3: Statistics of TaoVA-100x

Start at: 2020-04-16 09:37:12

End at: 2020-04-16 09:37:42

Below is generated by plot.py at 2020-04-16 09:48:39

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.09 Mbit/s (92.4% utilization)

95th percentile per-packet one-way delay: 32.887 ms

Loss rate: 0.72%

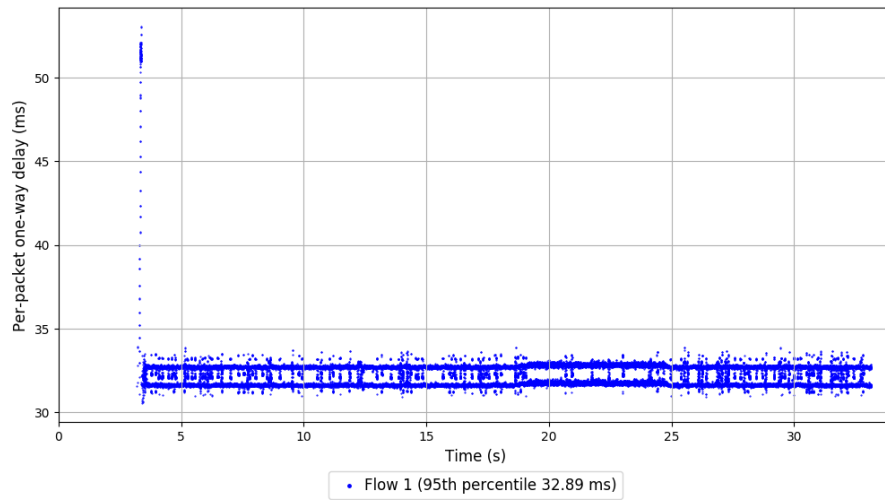
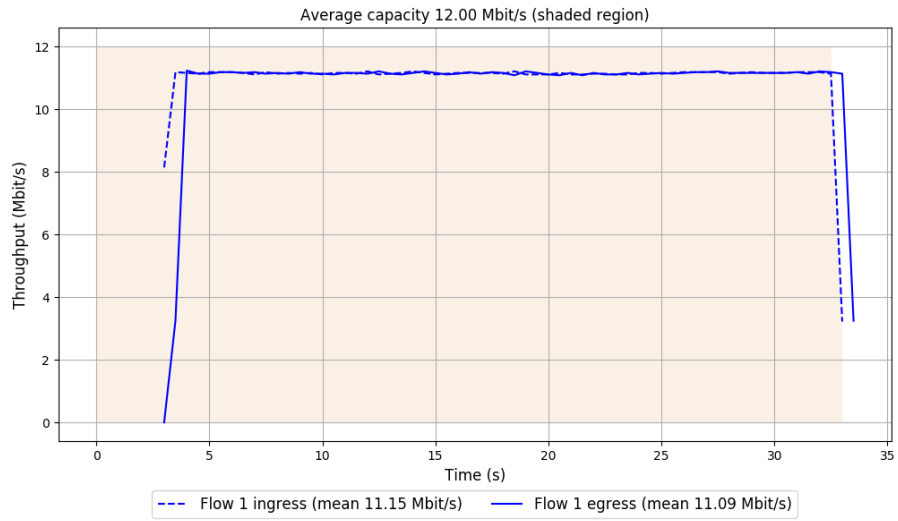
-- Flow 1:

Average throughput: 11.09 Mbit/s

95th percentile per-packet one-way delay: 32.887 ms

Loss rate: 0.72%

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



Run 1: Statistics of TCP Vegas

Start at: 2020-04-16 09:04:12

End at: 2020-04-16 09:04:42

Below is generated by plot.py at 2020-04-16 09:48:39

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.92 Mbit/s (99.3% utilization)

95th percentile per-packet one-way delay: 37.909 ms

Loss rate: 0.27%

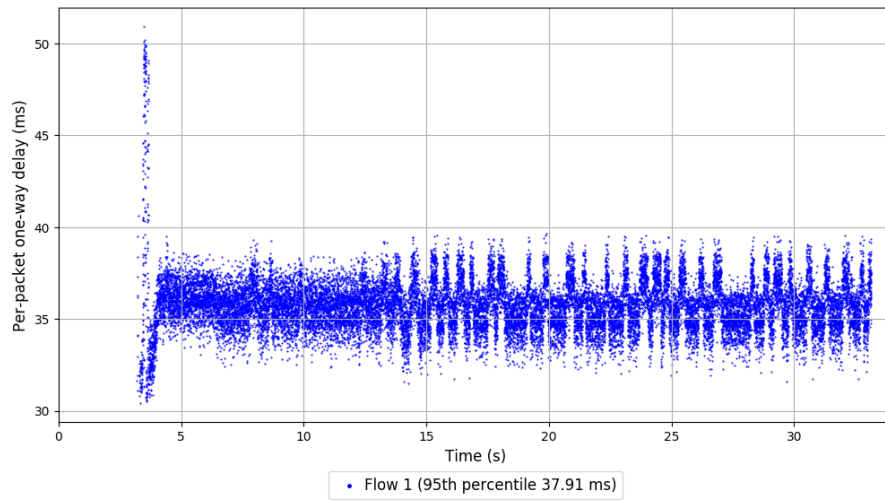
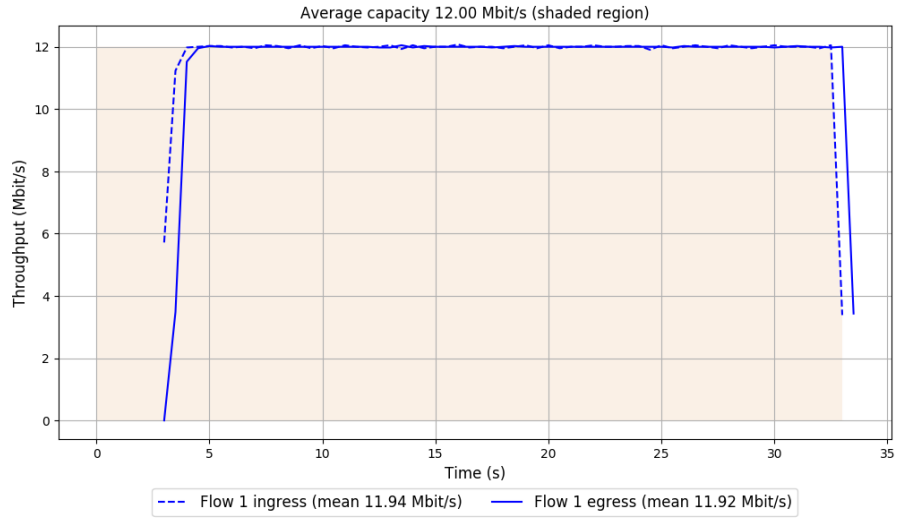
-- Flow 1:

Average throughput: 11.92 Mbit/s

95th percentile per-packet one-way delay: 37.909 ms

Loss rate: 0.27%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2020-04-16 09:18:20

End at: 2020-04-16 09:18:50

Below is generated by plot.py at 2020-04-16 09:48:39

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.92 Mbit/s (99.3% utilization)

95th percentile per-packet one-way delay: 37.347 ms

Loss rate: 0.27%

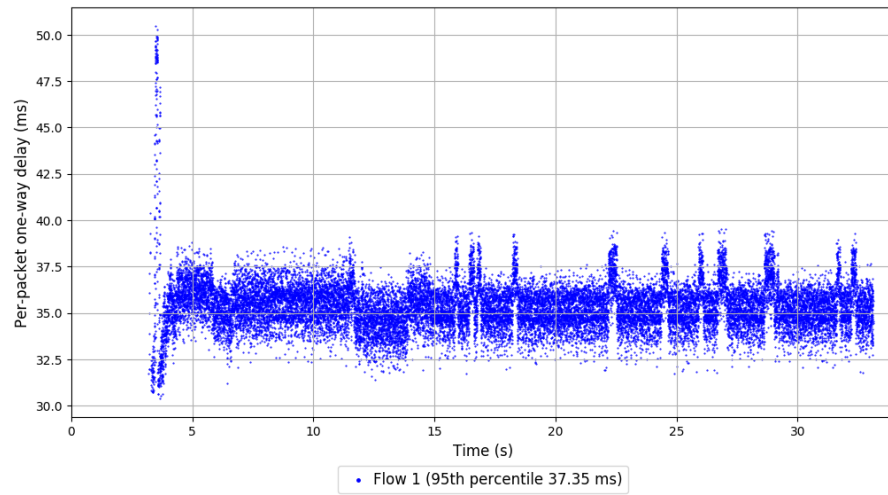
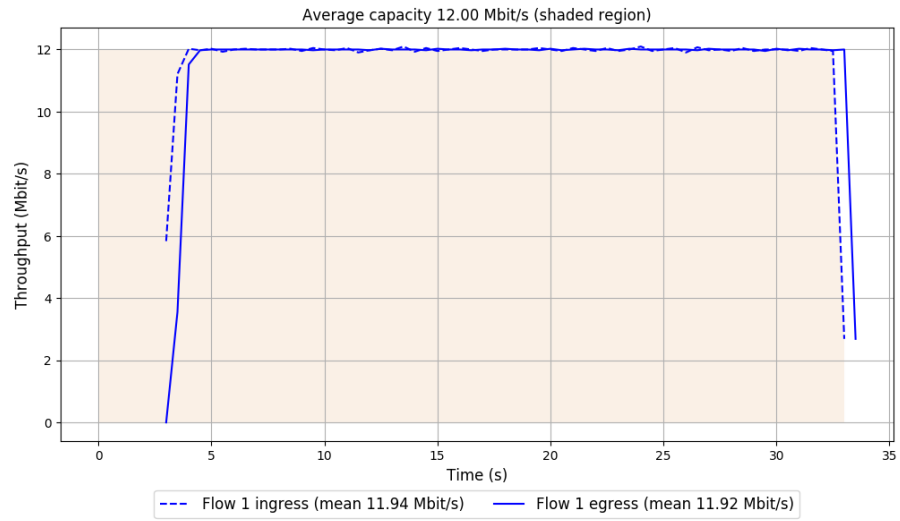
-- Flow 1:

Average throughput: 11.92 Mbit/s

95th percentile per-packet one-way delay: 37.347 ms

Loss rate: 0.27%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2020-04-16 09:32:30

End at: 2020-04-16 09:33:00

Below is generated by plot.py at 2020-04-16 09:48:39

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.92 Mbit/s (99.3% utilization)

95th percentile per-packet one-way delay: 38.086 ms

Loss rate: 0.28%

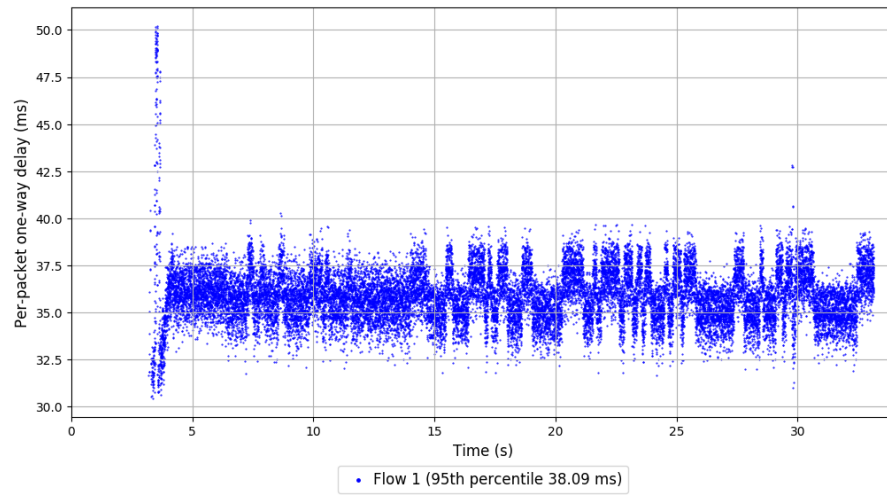
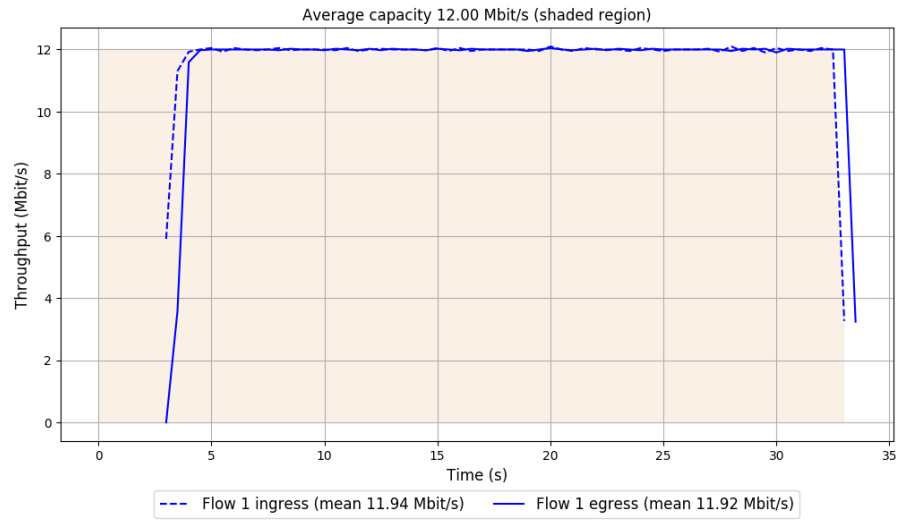
-- Flow 1:

Average throughput: 11.92 Mbit/s

95th percentile per-packet one-way delay: 38.086 ms

Loss rate: 0.28%

Run 3: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2020-04-16 09:11:16

End at: 2020-04-16 09:11:46

Below is generated by plot.py at 2020-04-16 09:48:56

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 6.71 Mbit/s (55.9% utilization)

95th percentile per-packet one-way delay: 51.808 ms

Loss rate: 92.28%

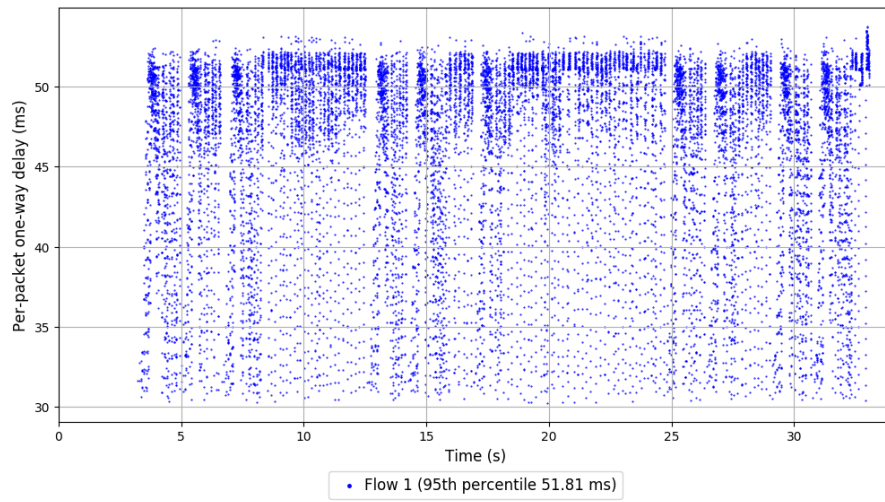
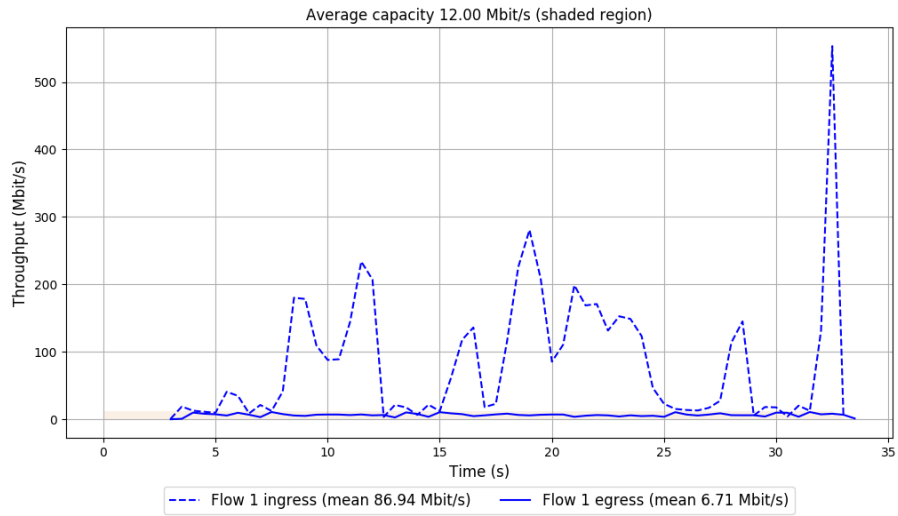
-- Flow 1:

Average throughput: 6.71 Mbit/s

95th percentile per-packet one-way delay: 51.808 ms

Loss rate: 92.28%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2020-04-16 09:25:25

End at: 2020-04-16 09:25:55

Below is generated by plot.py at 2020-04-16 09:48:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 6.04 Mbit/s (50.3% utilization)

95th percentile per-packet one-way delay: 51.974 ms

Loss rate: 95.33%

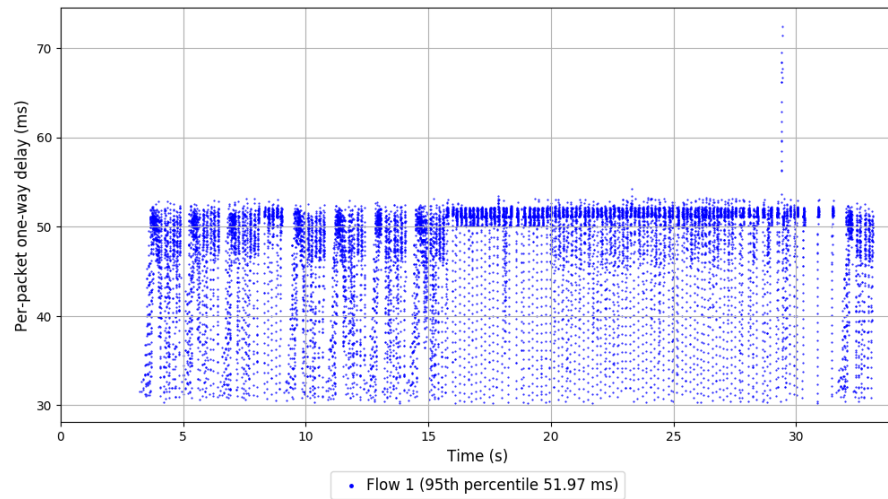
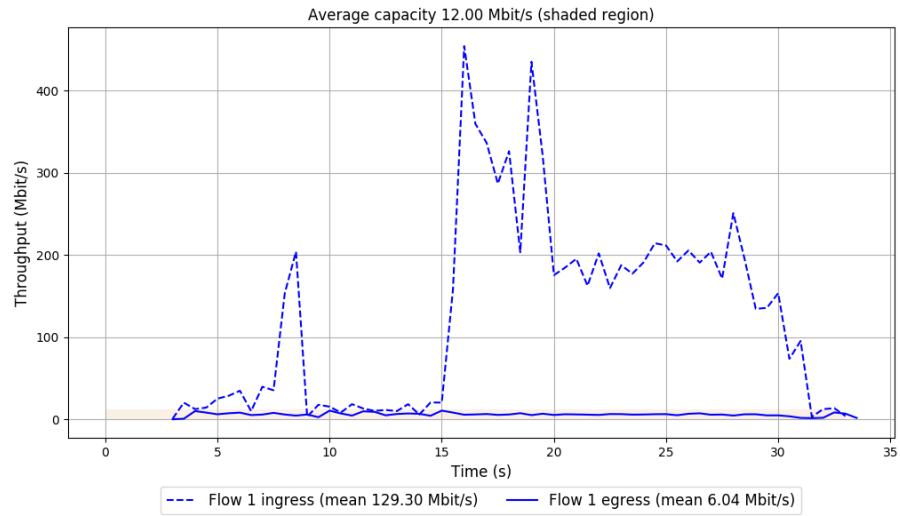
-- Flow 1:

Average throughput: 6.04 Mbit/s

95th percentile per-packet one-way delay: 51.974 ms

Loss rate: 95.33%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2020-04-16 09:39:35

End at: 2020-04-16 09:40:05

Below is generated by plot.py at 2020-04-16 09:48:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 6.85 Mbit/s (57.1% utilization)

95th percentile per-packet one-way delay: 51.554 ms

Loss rate: 84.82%

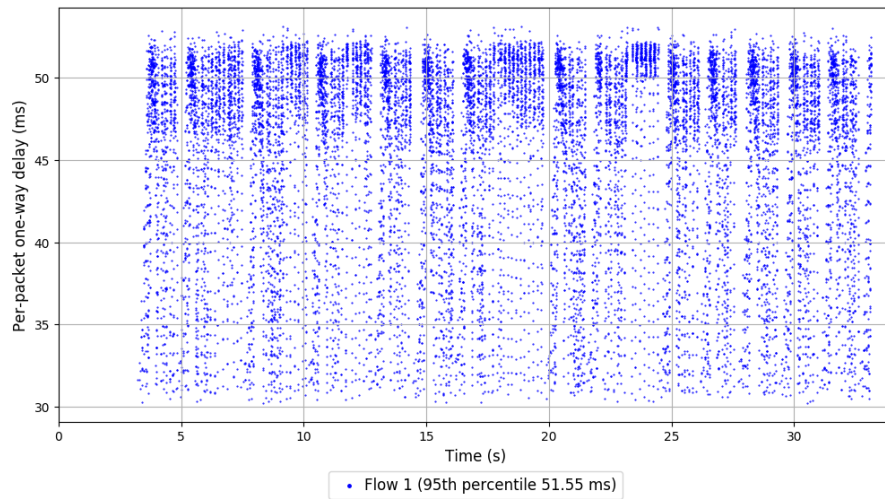
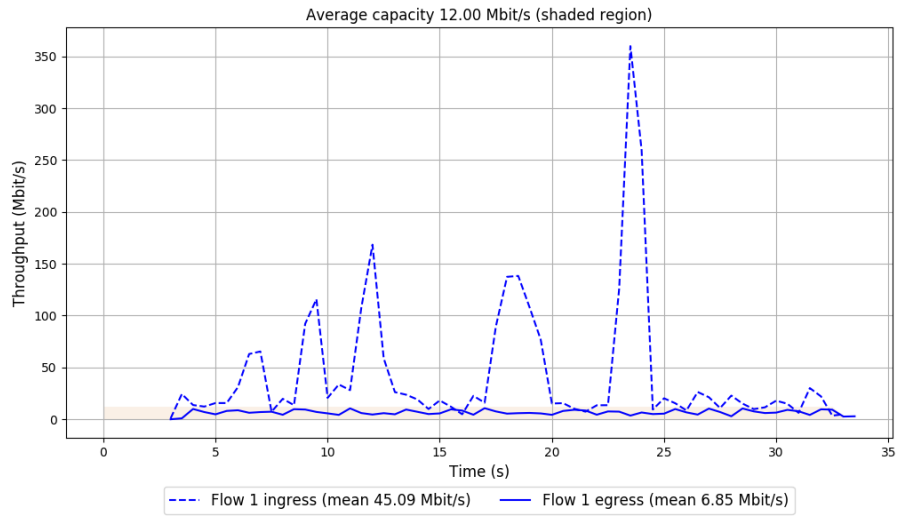
-- Flow 1:

Average throughput: 6.85 Mbit/s

95th percentile per-packet one-way delay: 51.554 ms

Loss rate: 84.82%

Run 3: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2020-04-16 09:08:18

End at: 2020-04-16 09:08:48

Below is generated by plot.py at 2020-04-16 09:48:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.98 Mbit/s (91.5% utilization)

95th percentile per-packet one-way delay: 36.450 ms

Loss rate: 0.17%

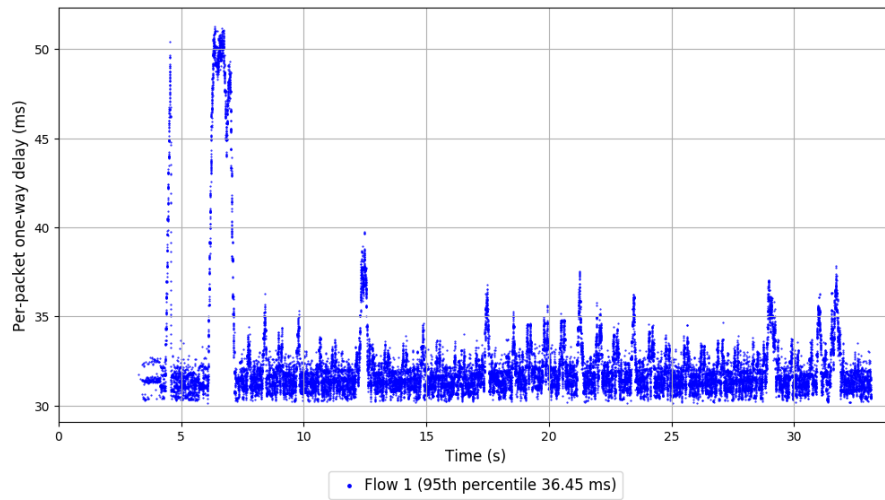
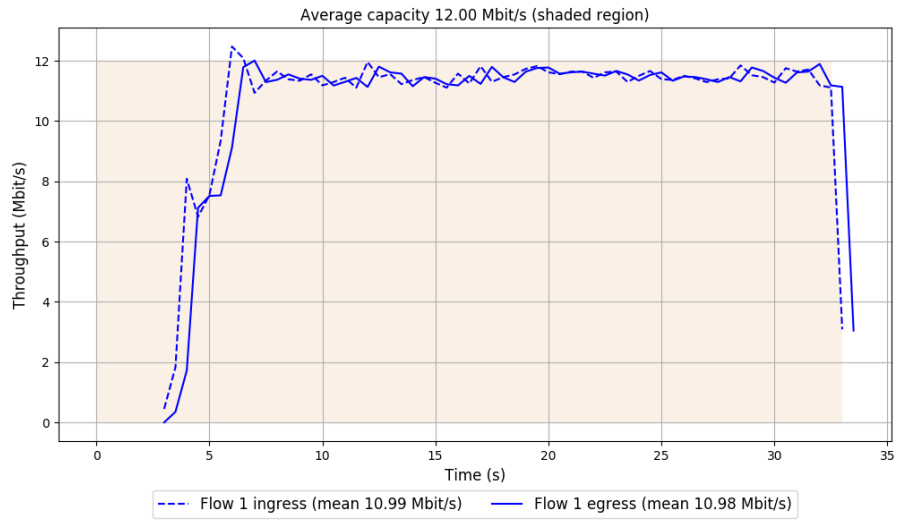
-- Flow 1:

Average throughput: 10.98 Mbit/s

95th percentile per-packet one-way delay: 36.450 ms

Loss rate: 0.17%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2020-04-16 09:22:27

End at: 2020-04-16 09:22:57

Below is generated by plot.py at 2020-04-16 09:48:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.88 Mbit/s (90.6% utilization)

95th percentile per-packet one-way delay: 36.535 ms

Loss rate: 0.18%

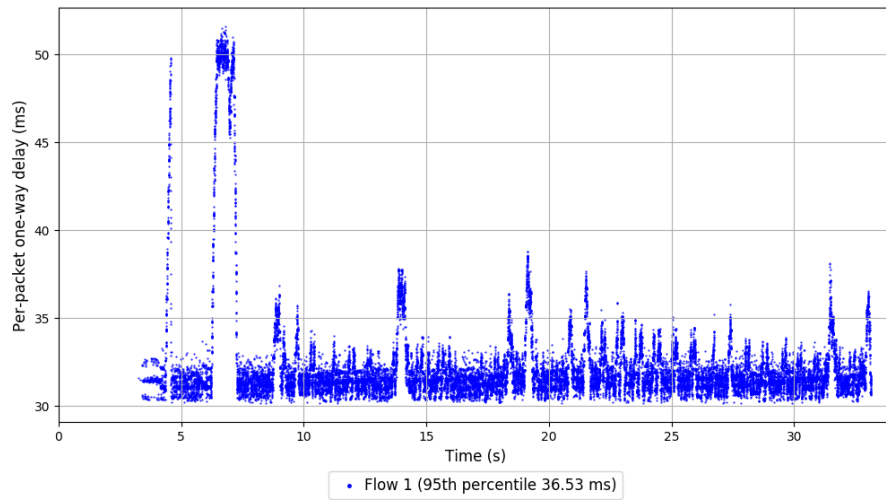
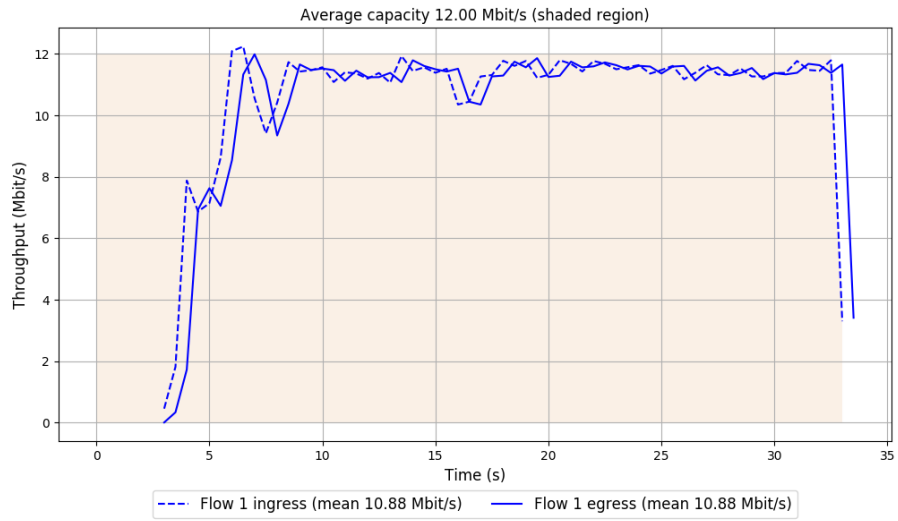
-- Flow 1:

Average throughput: 10.88 Mbit/s

95th percentile per-packet one-way delay: 36.535 ms

Loss rate: 0.18%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2020-04-16 09:36:37

End at: 2020-04-16 09:37:07

Below is generated by plot.py at 2020-04-16 09:48:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.92 Mbit/s (91.0% utilization)

95th percentile per-packet one-way delay: 36.308 ms

Loss rate: 0.19%

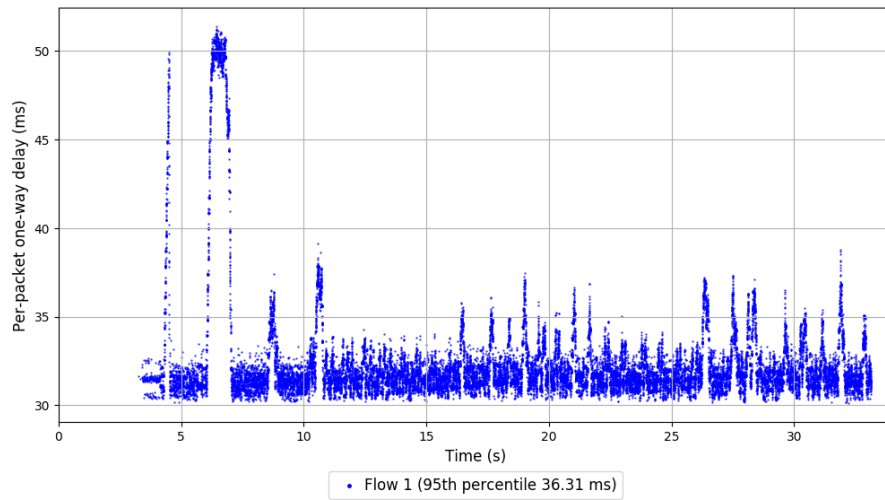
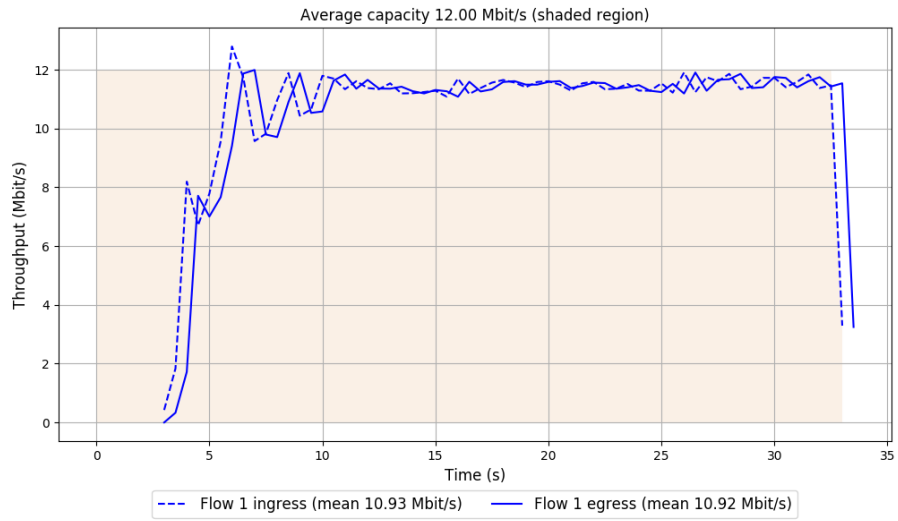
-- Flow 1:

Average throughput: 10.92 Mbit/s

95th percentile per-packet one-way delay: 36.308 ms

Loss rate: 0.19%

Run 3: Report of PCC-Vivace — Data Link

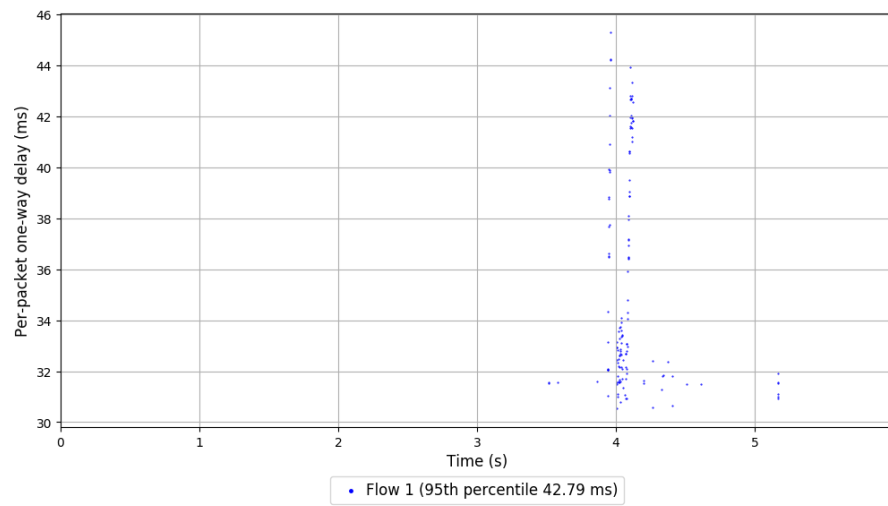
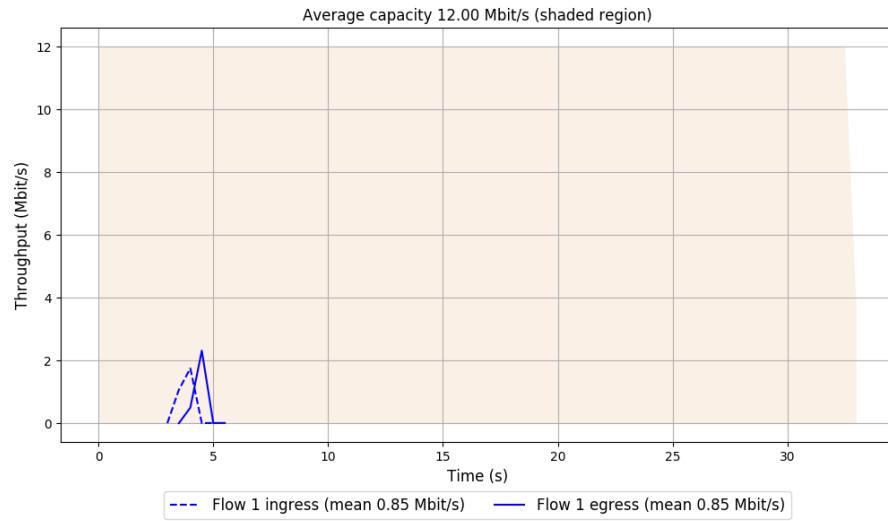


Run 1: Statistics of WebRTC media

Start at: 2020-04-16 09:02:26

End at: 2020-04-16 09:02:56

Run 1: Report of WebRTC media — Data Link

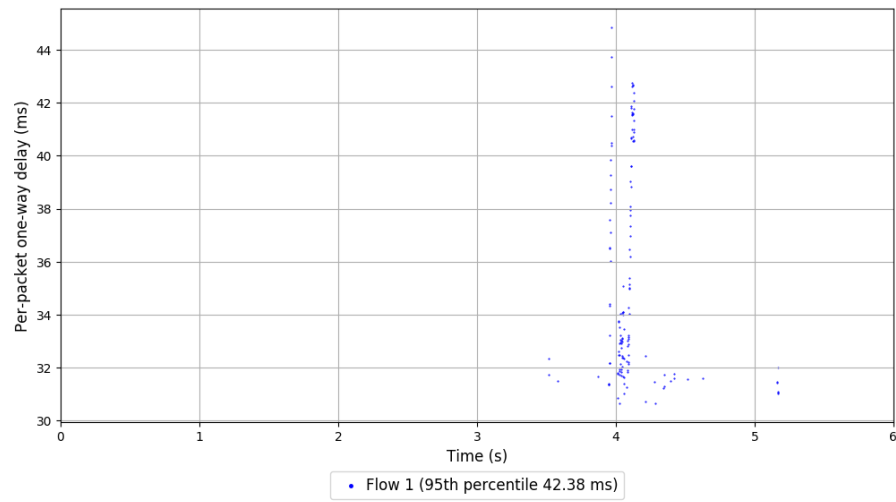
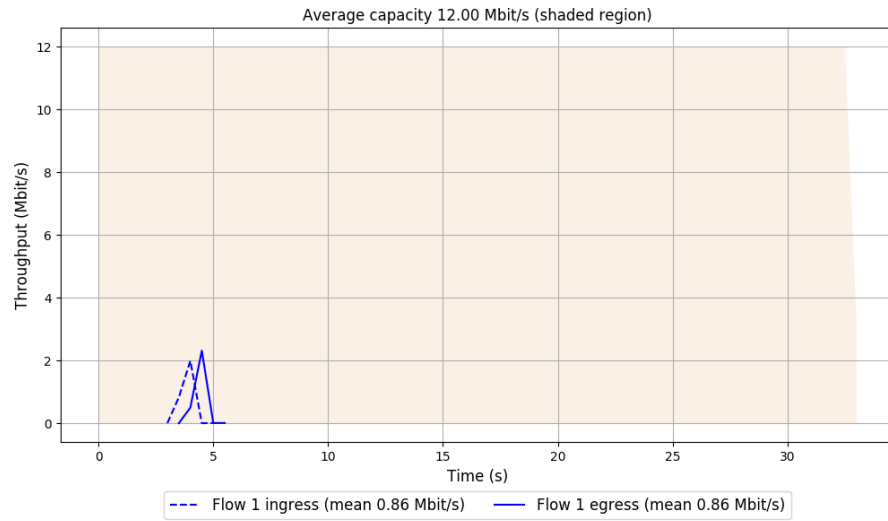


Run 2: Statistics of WebRTC media

Start at: 2020-04-16 09:16:35

End at: 2020-04-16 09:17:05

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2020-04-16 09:30:45

End at: 2020-04-16 09:31:15

Run 3: Report of WebRTC media — Data Link

