

Pantheon Report

Generated at 2020-04-16 09:46:32 (UTC).

Tested in mahimahi: mm-delay 10 mm-link 12mbps.trace 0.12mbps.trace

Repeated the test of 24 congestion control schemes 3 times.

Each test lasted for 30 seconds running 1 flow.

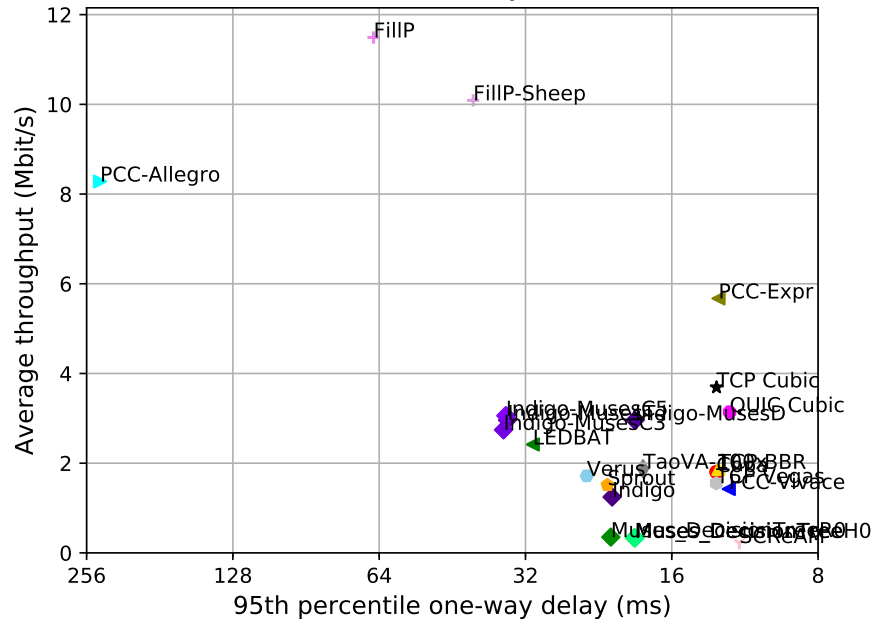
System info:

```
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
```

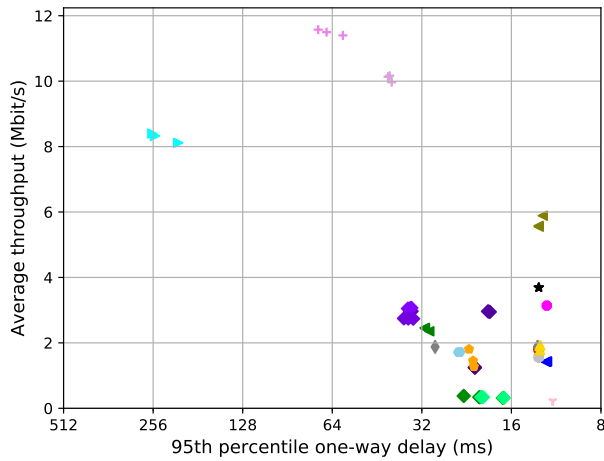
Git summary:

```
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-quic @ 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



- + FiIIP-Sheep
- ◆ Indigo
- Sprout
- ◆ Indigo-MusesD
- ◆ Indigo-MusesT
- ◆ Muses_DecisionTree
- Verus
- ▲ PCC-Allegro
- ▲ LEDBAT
- ▲ PCC-Expr
- Copa
- QUIC Cubic
- ★ TCP Cubic
- ▲ PCC-Vivace
- TCP Vegas
- ◆ TaoVA-100x
- ◆ Muses_DecisionTreeR0
- + FiIIP
- ▲ TCP BBR
- ◆ Indigo-MusesC5
- ◆ Muses_DecisionTreeH0
- ▽ SCReAM
- ◆ Indigo-MusesC3

scheme	# runs	mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate (%)
		flow 1	flow 1	flow 1
TCP BBR	3	1.87	12.83	0.07
Copa	3	1.80	12.95	0.07
TCP Cubic	3	3.69	12.94	0.09
FillP	3	11.49	65.73	0.15
FillP-Sheep	3	10.09	41.00	0.09
Indigo	3	1.25	21.23	0.00
Indigo-MusesC3	3	2.74	35.51	0.15
Indigo-MusesC5	3	3.06	35.12	0.18
Indigo-MusesD	3	2.96	19.05	0.15
Indigo-MusesT	3	2.97	34.85	0.17
LEDBAT	3	2.42	30.92	0.10
Muses_DecisionTree	3	0.34	19.09	0.13
Muses_DecisionTreeH0	3	0.33	19.04	0.00
Muses_DecisionTreeR0	3	0.35	21.36	0.15
PCC-Allegro	3	8.28	240.19	0.03
PCC-Expr	3	5.67	12.83	0.04
QUIC Cubic	3	3.14	12.17	0.05
SCReAM	3	0.22	11.62	0.09
Sprout	3	1.51	21.71	0.05
TaoVA-100x	3	1.88	18.33	0.05
TCP Vegas	3	1.55	12.96	0.02
Verus	3	1.72	23.94	0.12
PCC-Vivace	3	1.42	12.22	0.03
WebRTC media	0	N/A	N/A	N/A

Run 1: Statistics of TCP BBR

Start at: 2020-04-16 09:10:34

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

Below is generated by plot.py at 2020-04-16 09:44:27

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.78 Mbit/s (14.9% utilization)

95th percentile per-packet one-way delay: 12.830 ms

Loss rate: 0.09%

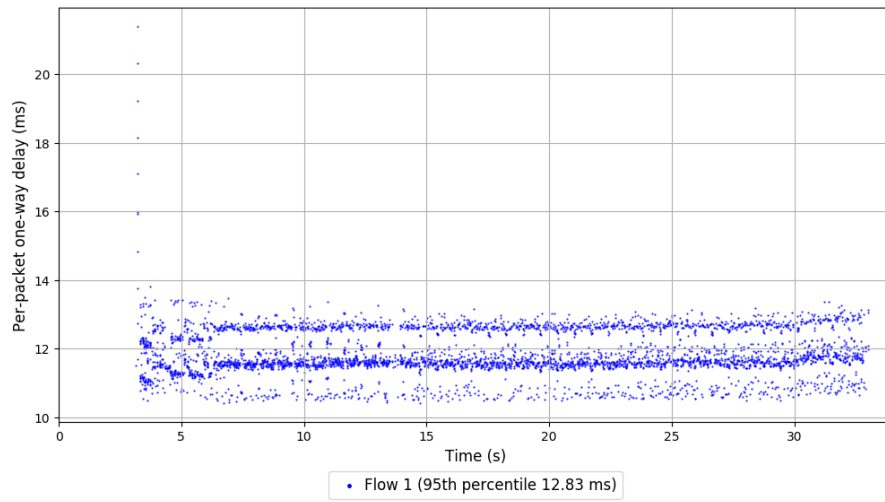
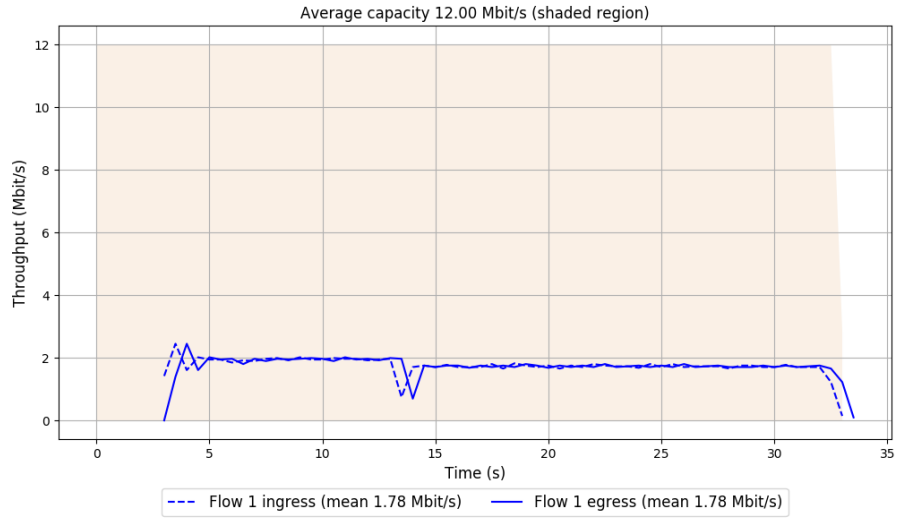
-- Flow 1:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 12.830 ms

Loss rate: 0.09%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2020-04-16 09:24:29

End at: 2020-04-16 09:24:59

Below is generated by plot.py at 2020-04-16 09:44:28

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.93 Mbit/s (16.0% utilization)

95th percentile per-packet one-way delay: 12.790 ms

Loss rate: 0.04%

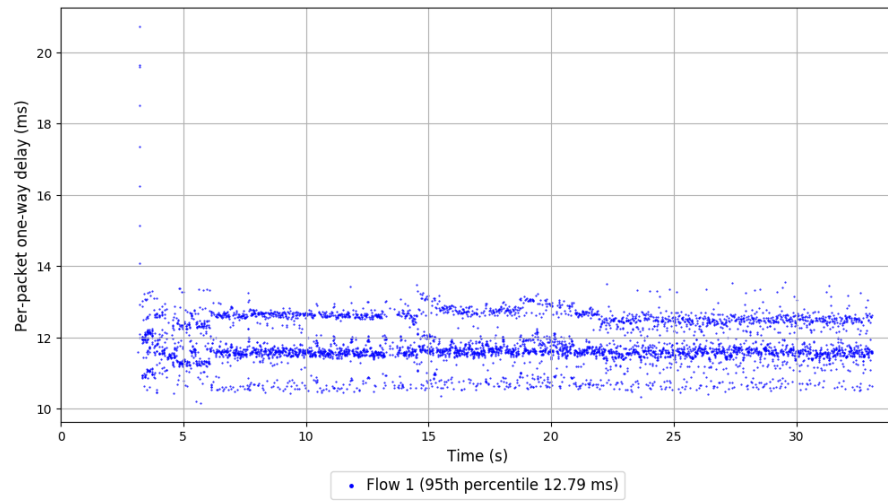
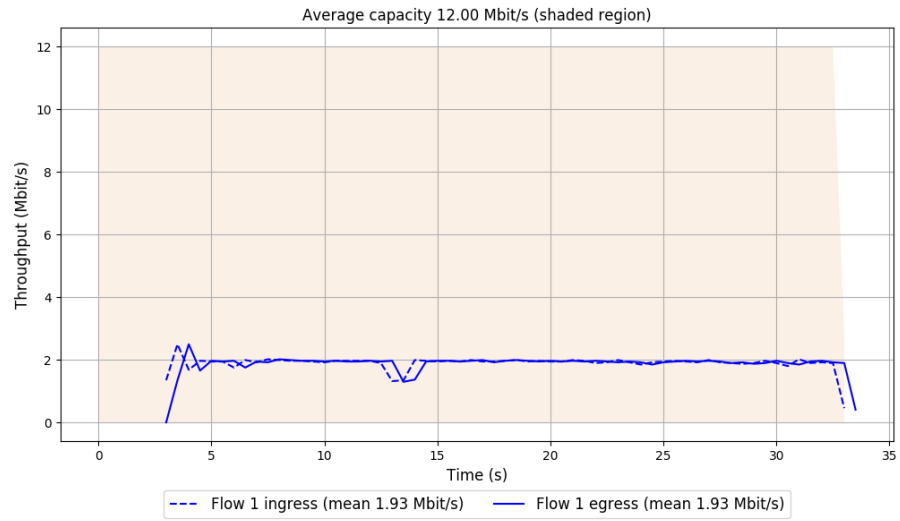
-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 12.790 ms

Loss rate: 0.04%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2020-04-16 09:38:25

End at: 2020-04-16 09:38:55

Below is generated by plot.py at 2020-04-16 09:44:28

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.91 Mbit/s (15.9% utilization)

95th percentile per-packet one-way delay: 12.864 ms

Loss rate: 0.08%

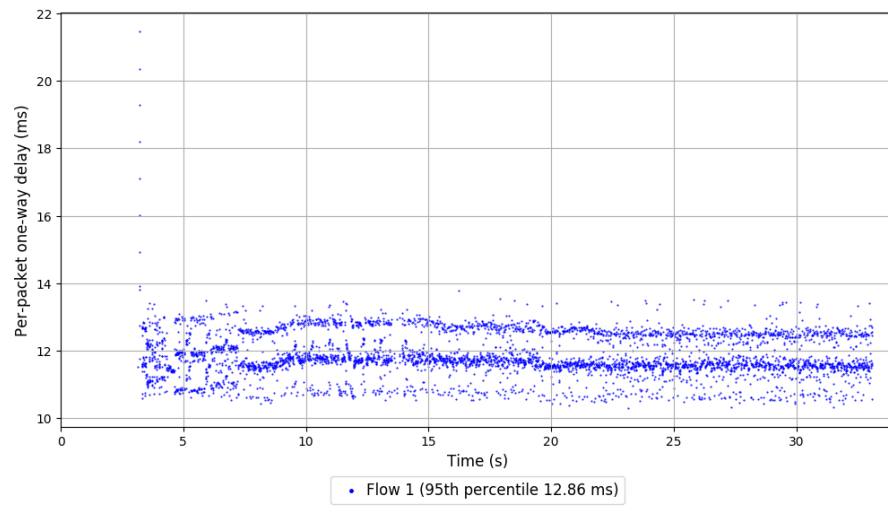
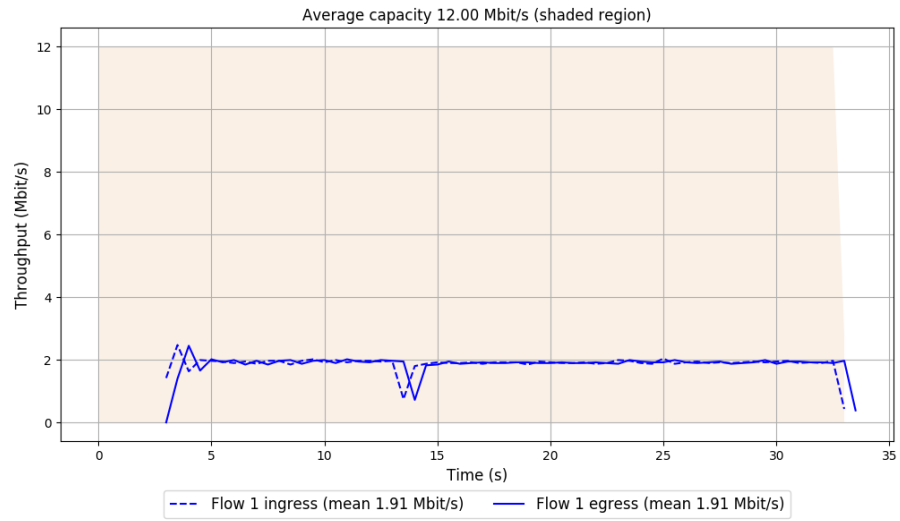
-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 12.864 ms

Loss rate: 0.08%

Run 3: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2020-04-16 09:15:12

End at: 2020-04-16 09:15:42

Below is generated by plot.py at 2020-04-16 09:44:31

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.79 Mbit/s (14.9% utilization)

95th percentile per-packet one-way delay: 12.931 ms

Loss rate: 0.09%

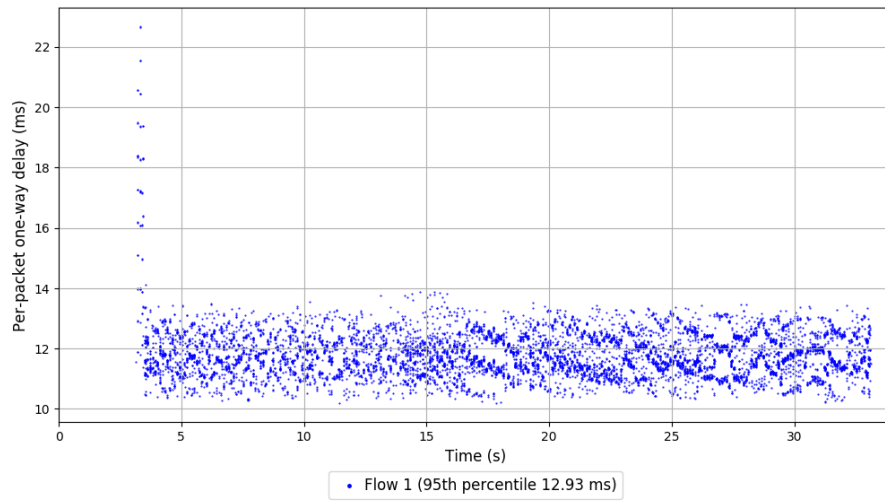
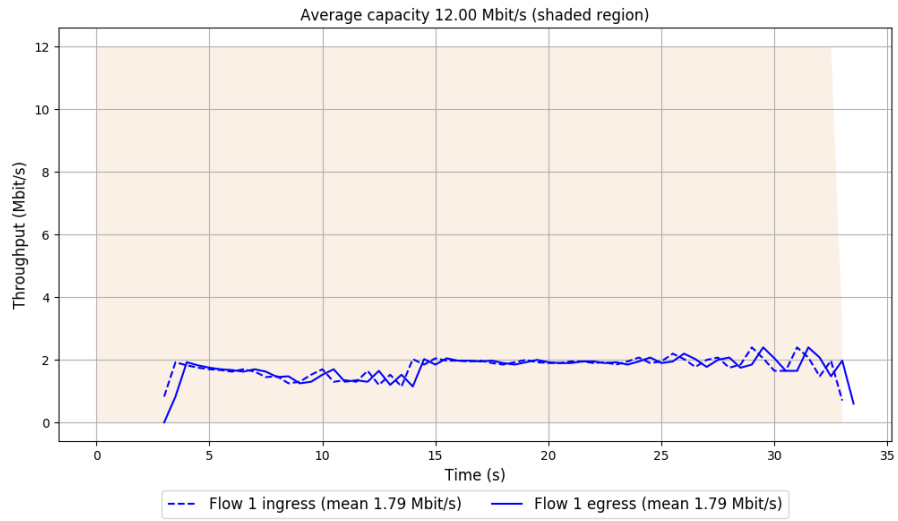
-- Flow 1:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 12.931 ms

Loss rate: 0.09%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2020-04-16 09:29:07

End at: 2020-04-16 09:29:37

Below is generated by plot.py at 2020-04-16 09:44:31

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.78 Mbit/s (14.8% utilization)

95th percentile per-packet one-way delay: 12.965 ms

Loss rate: 0.05%

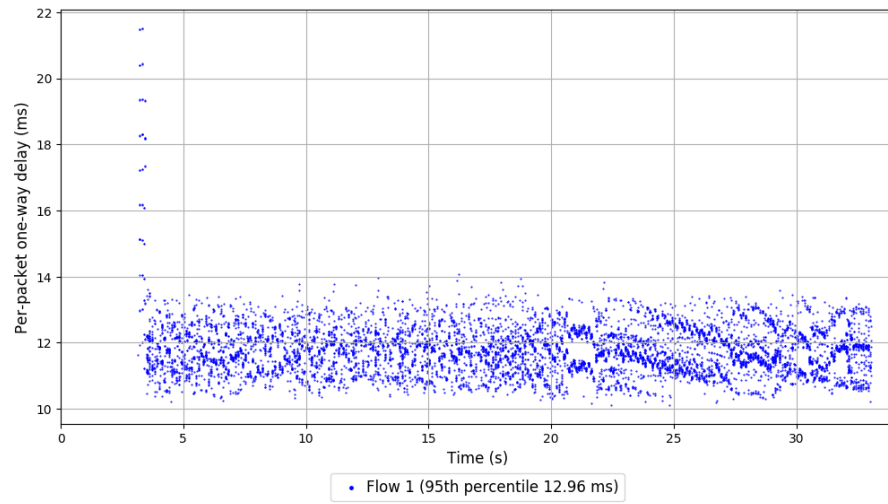
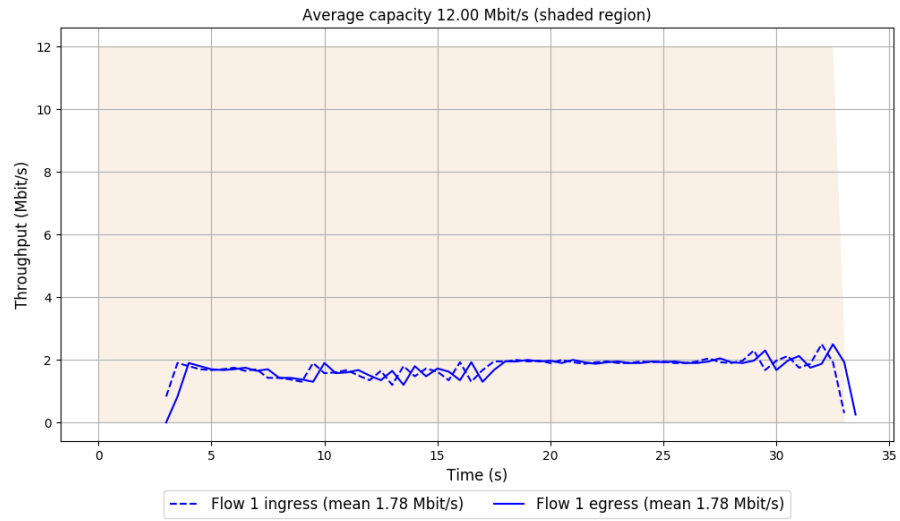
-- Flow 1:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 12.965 ms

Loss rate: 0.05%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2020-04-16 09:43:03

End at: 2020-04-16 09:43:33

Below is generated by plot.py at 2020-04-16 09:44:31

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.84 Mbit/s (15.4% utilization)

95th percentile per-packet one-way delay: 12.966 ms

Loss rate: 0.07%

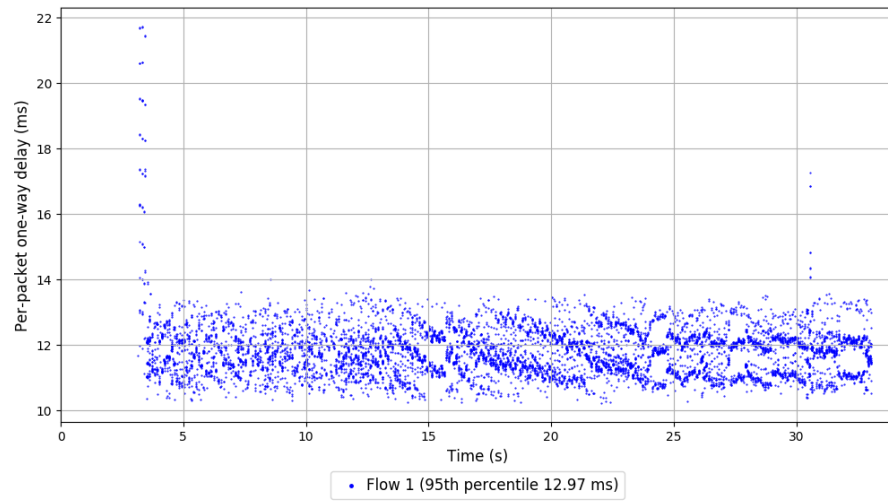
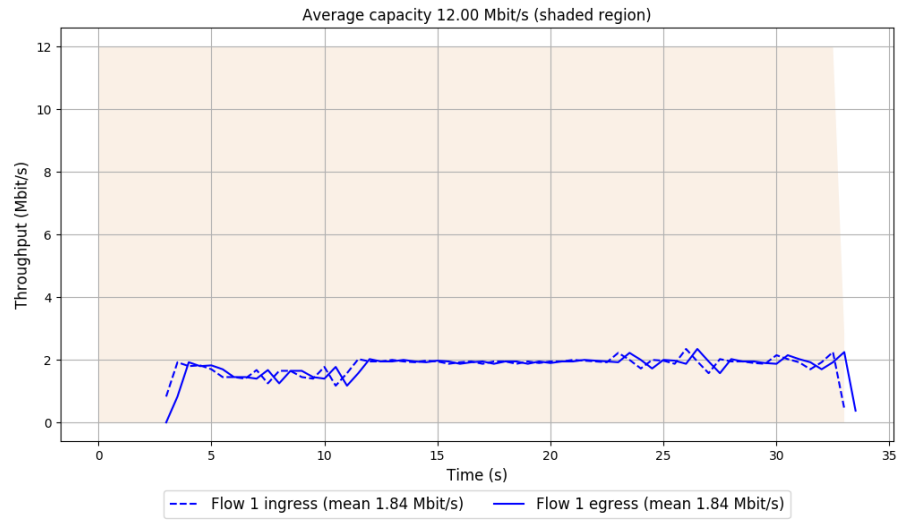
-- Flow 1:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 12.966 ms

Loss rate: 0.07%

Run 3: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2020-04-16 09:15:47

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

Below is generated by plot.py at 2020-04-16 09:44:31

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 3.69 Mbit/s (30.7% utilization)

95th percentile per-packet one-way delay: 12.978 ms

Loss rate: 0.09%

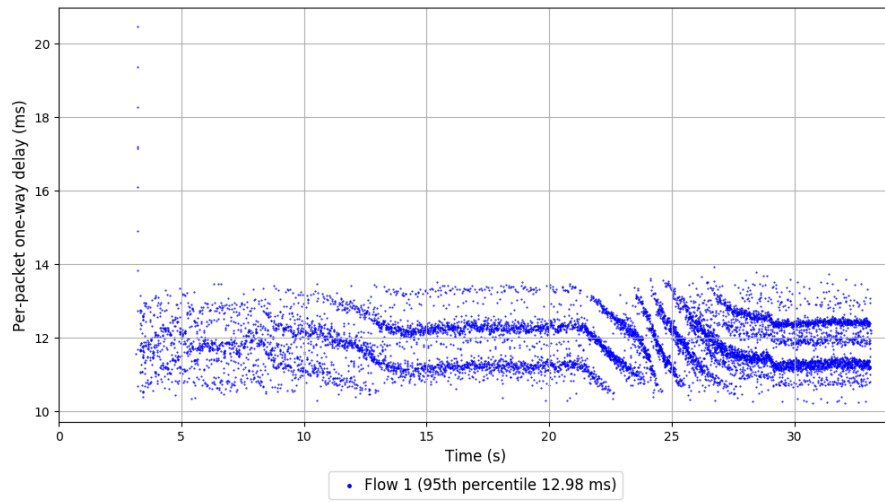
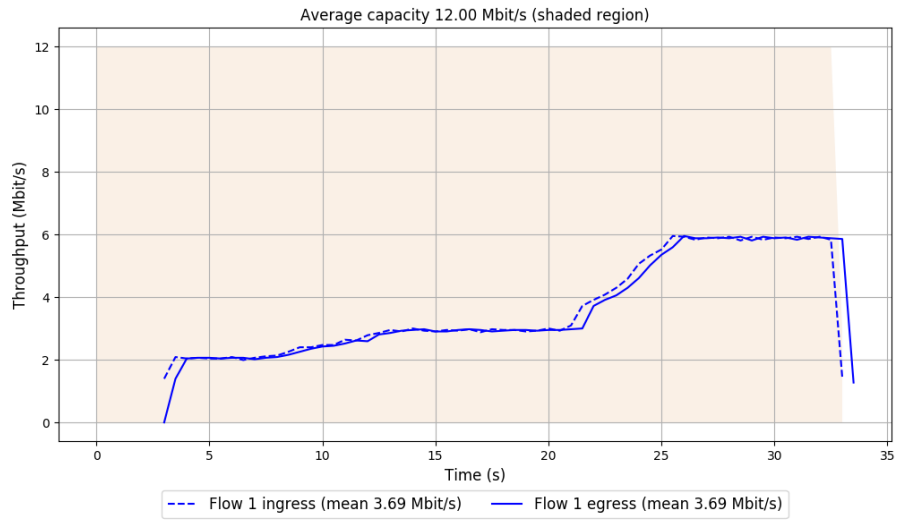
-- Flow 1:

Average throughput: 3.69 Mbit/s

95th percentile per-packet one-way delay: 12.978 ms

Loss rate: 0.09%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2020-04-16 09:29:42

End at: 2020-04-16 09:30:12

Below is generated by plot.py at 2020-04-16 09:44:31

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 3.69 Mbit/s (30.8% utilization)

95th percentile per-packet one-way delay: 12.909 ms

Loss rate: 0.08%

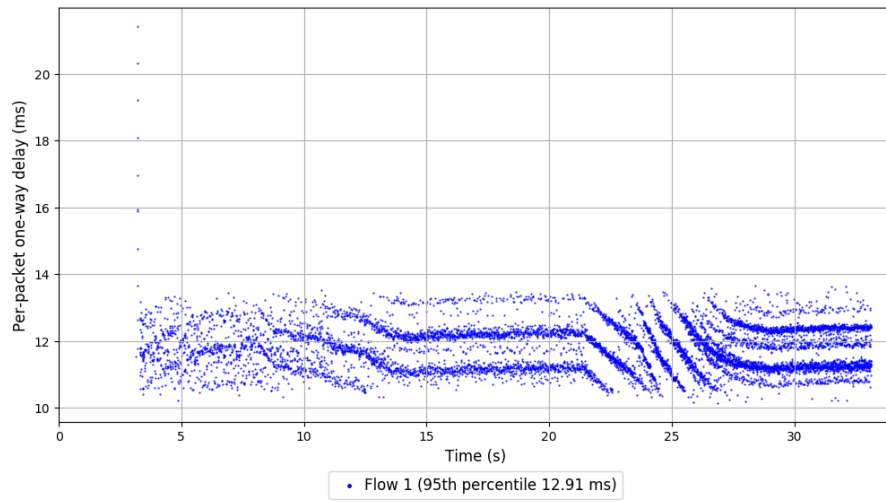
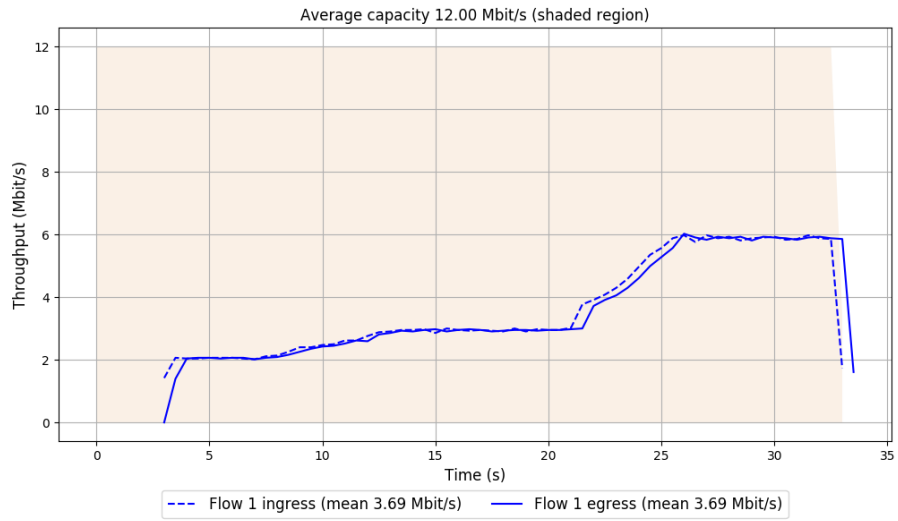
-- Flow 1:

Average throughput: 3.69 Mbit/s

95th percentile per-packet one-way delay: 12.909 ms

Loss rate: 0.08%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2020-04-16 09:43:38

End at: 2020-04-16 09:44:08

Below is generated by plot.py at 2020-04-16 09:44:39

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 3.69 Mbit/s (30.7% utilization)

95th percentile per-packet one-way delay: 12.945 ms

Loss rate: 0.10%

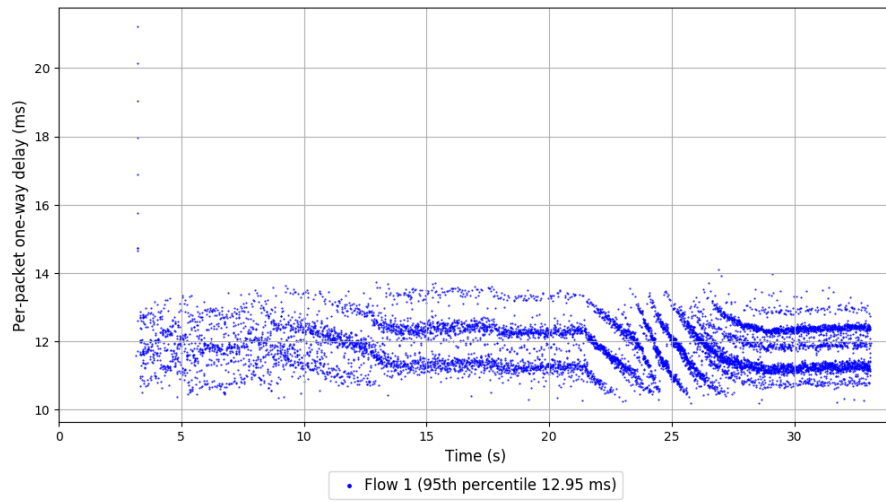
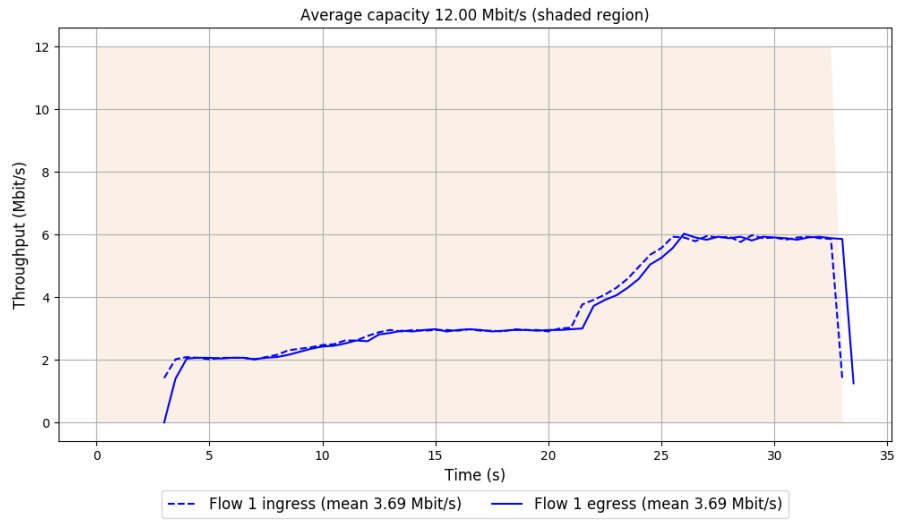
-- Flow 1:

Average throughput: 3.69 Mbit/s

95th percentile per-packet one-way delay: 12.945 ms

Loss rate: 0.10%

Run 3: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

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

End at: 2020-04-16 09:05:15

Below is generated by plot.py at 2020-04-16 09:44:56

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.57 Mbit/s (96.4% utilization)

95th percentile per-packet one-way delay: 71.360 ms

Loss rate: 0.06%

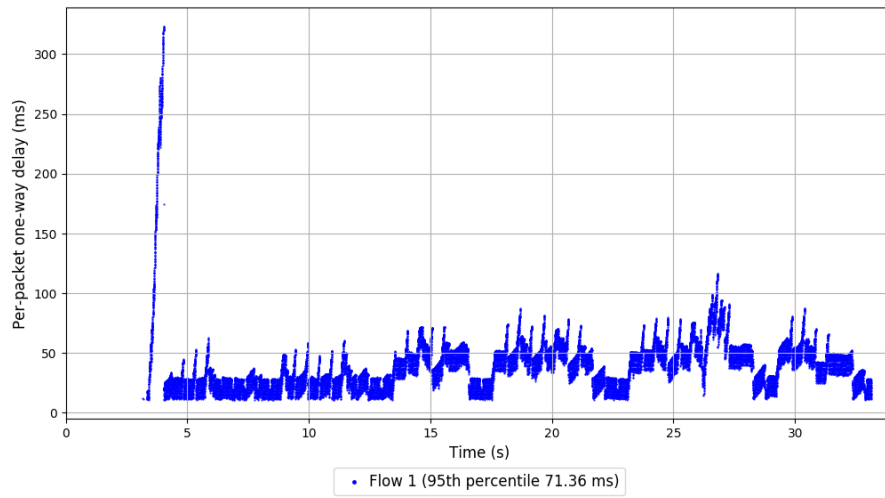
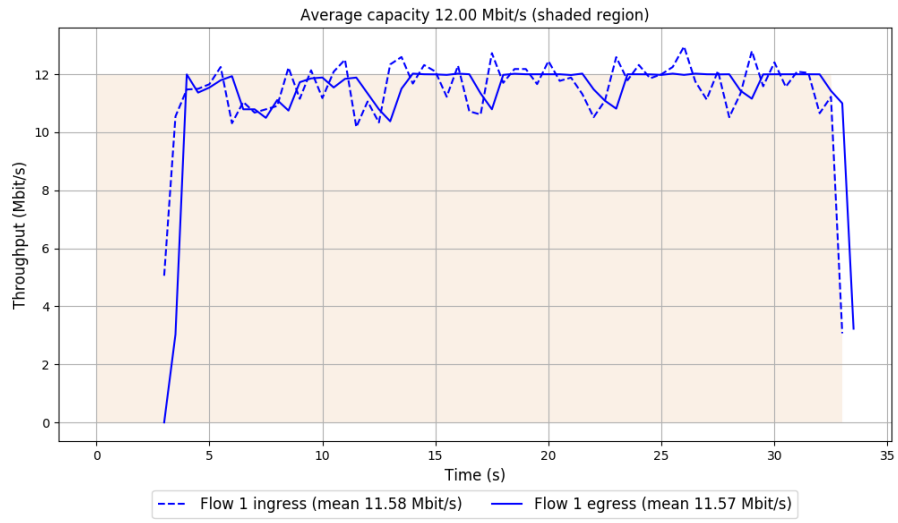
-- Flow 1:

Average throughput: 11.57 Mbit/s

95th percentile per-packet one-way delay: 71.360 ms

Loss rate: 0.06%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2020-04-16 09:18:40

End at: 2020-04-16 09:19:10

Below is generated by plot.py at 2020-04-16 09:44:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.50 Mbit/s (95.8% utilization)

95th percentile per-packet one-way delay: 66.874 ms

Loss rate: 0.14%

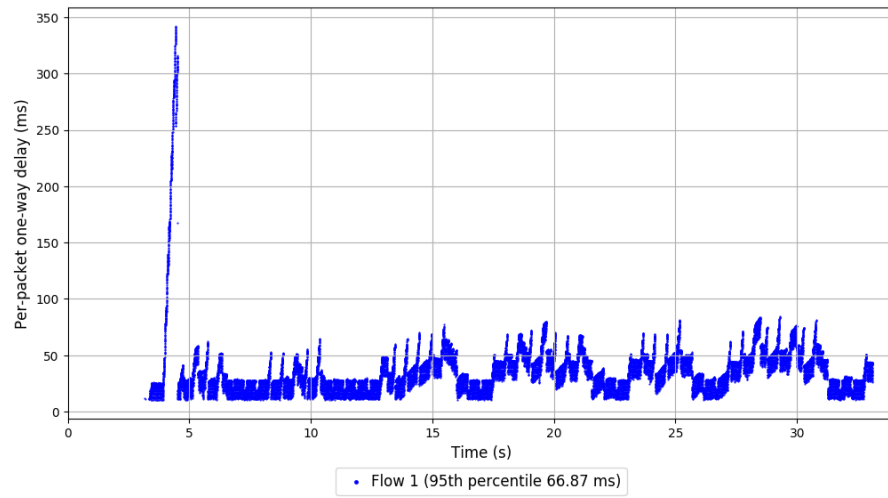
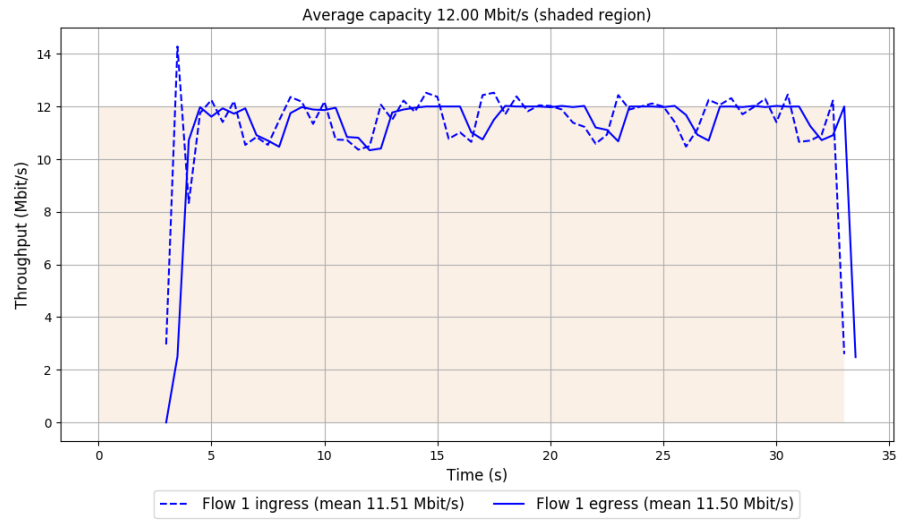
-- Flow 1:

Average throughput: 11.50 Mbit/s

95th percentile per-packet one-way delay: 66.874 ms

Loss rate: 0.14%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

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

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

Below is generated by plot.py at 2020-04-16 09:44:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.40 Mbit/s (95.0% utilization)

95th percentile per-packet one-way delay: 58.945 ms

Loss rate: 0.25%

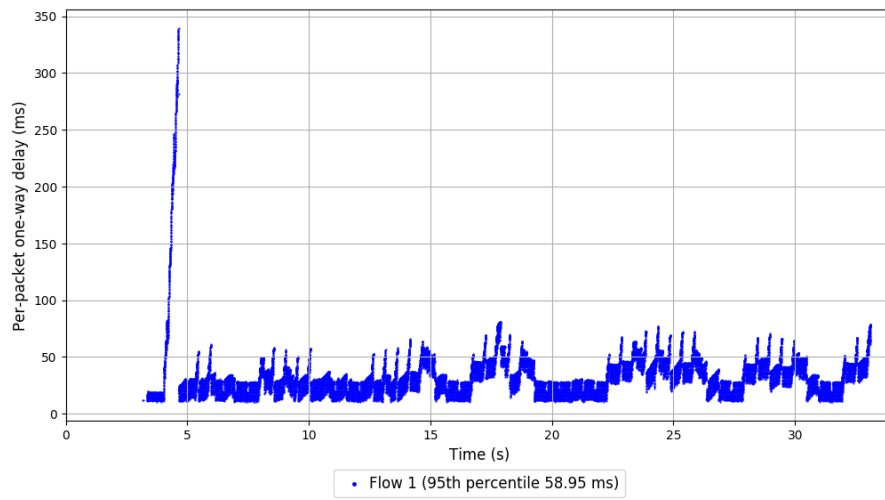
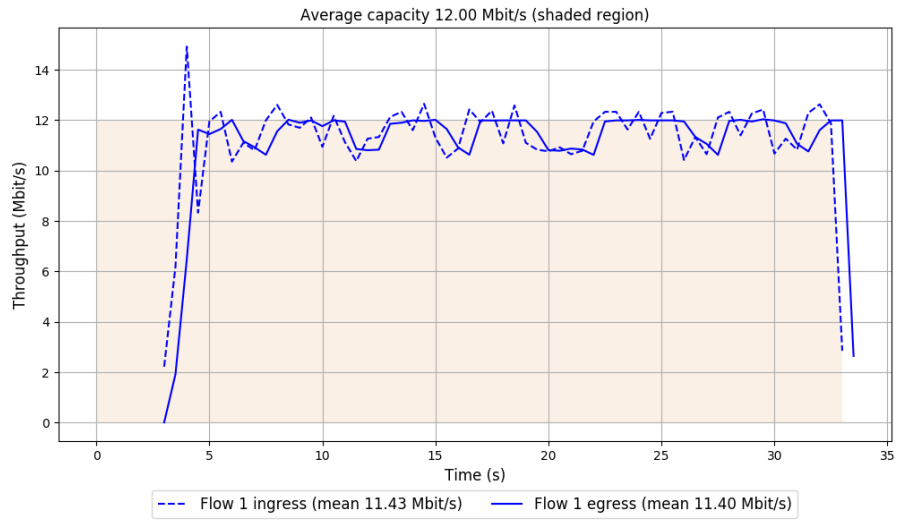
-- Flow 1:

Average throughput: 11.40 Mbit/s

95th percentile per-packet one-way delay: 58.945 ms

Loss rate: 0.25%

Run 3: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2020-04-16 09:07:40

End at: 2020-04-16 09:08:10

Below is generated by plot.py at 2020-04-16 09:44:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.13 Mbit/s (84.4% utilization)

95th percentile per-packet one-way delay: 41.543 ms

Loss rate: 0.09%

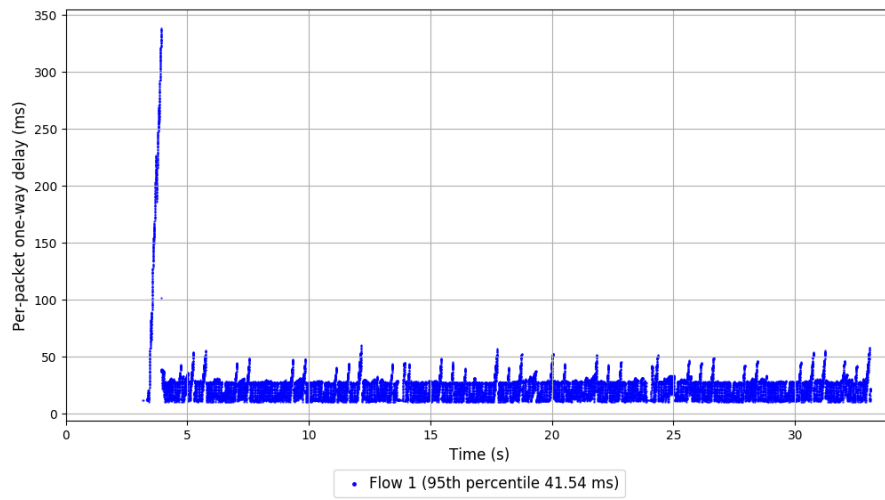
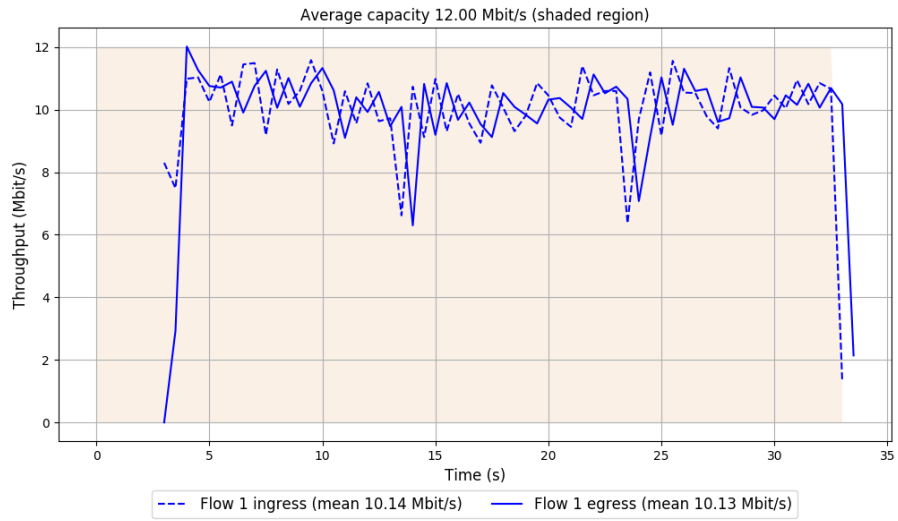
-- Flow 1:

Average throughput: 10.13 Mbit/s

95th percentile per-packet one-way delay: 41.543 ms

Loss rate: 0.09%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2020-04-16 09:21:35

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

Below is generated by plot.py at 2020-04-16 09:44:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 9.97 Mbit/s (83.1% utilization)

95th percentile per-packet one-way delay: 40.393 ms

Loss rate: 0.08%

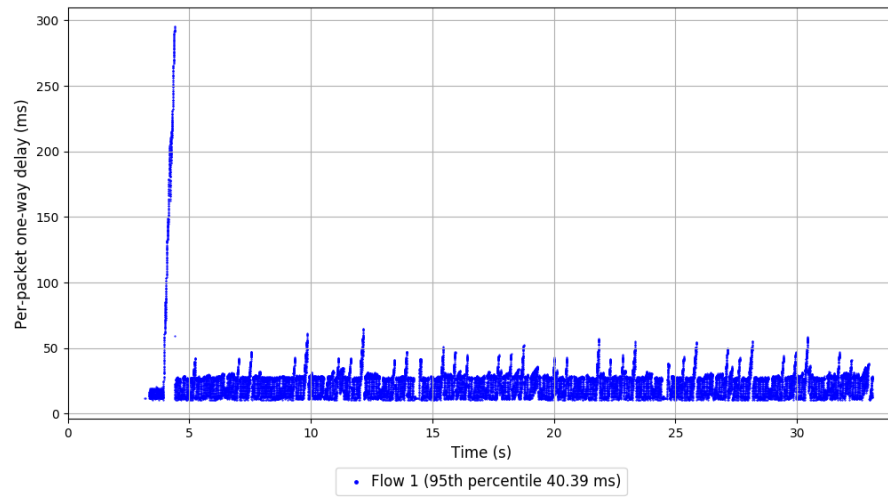
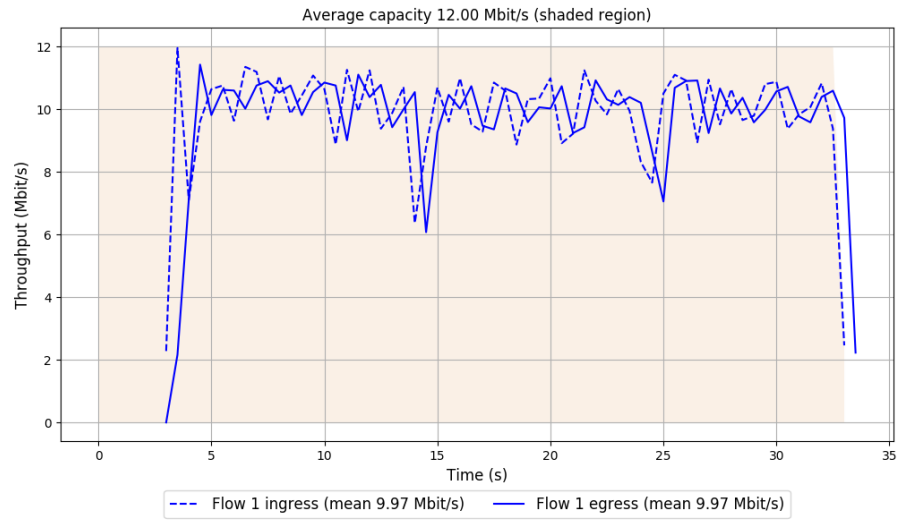
-- Flow 1:

Average throughput: 9.97 Mbit/s

95th percentile per-packet one-way delay: 40.393 ms

Loss rate: 0.08%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2020-04-16 09:35:30

End at: 2020-04-16 09:36:00

Below is generated by plot.py at 2020-04-16 09:44:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.17 Mbit/s (84.7% utilization)

95th percentile per-packet one-way delay: 41.056 ms

Loss rate: 0.10%

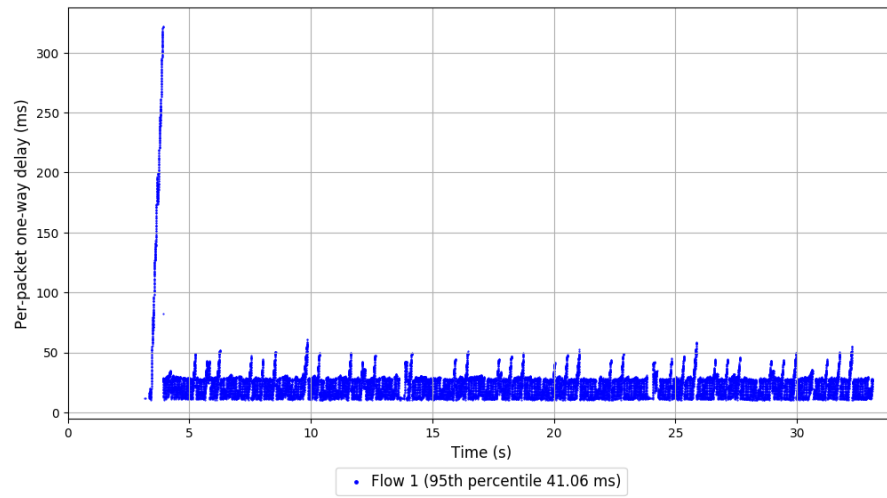
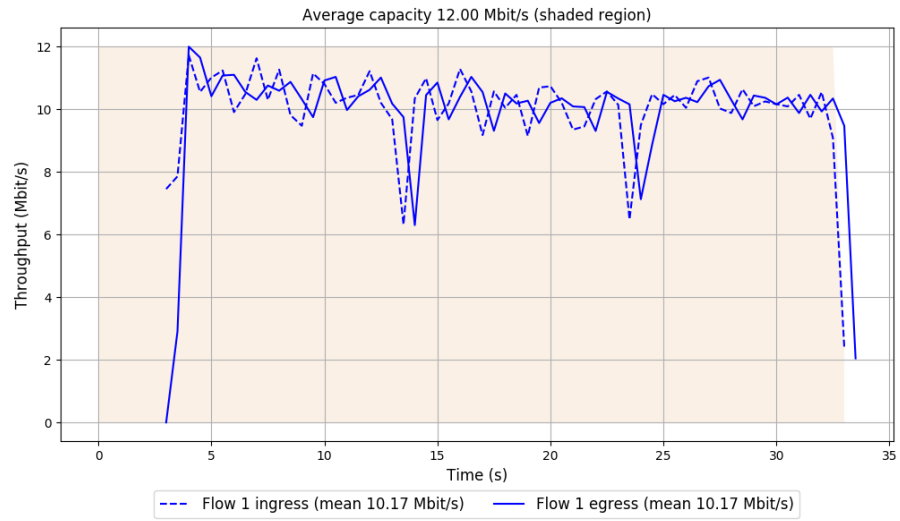
-- Flow 1:

Average throughput: 10.17 Mbit/s

95th percentile per-packet one-way delay: 41.056 ms

Loss rate: 0.10%

Run 3: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2020-04-16 09:12:53

End at: 2020-04-16 09:13:23

Below is generated by plot.py at 2020-04-16 09:44:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.25 Mbit/s (10.4% utilization)

95th percentile per-packet one-way delay: 21.215 ms

Loss rate: 0.00%

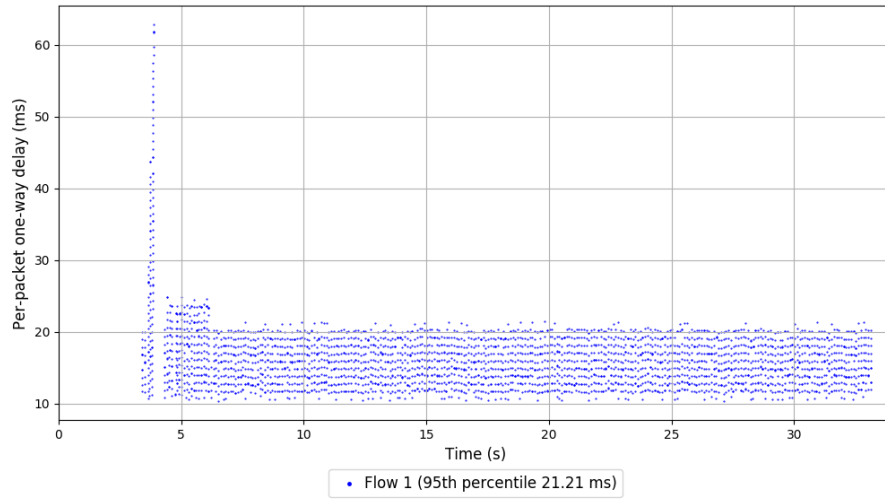
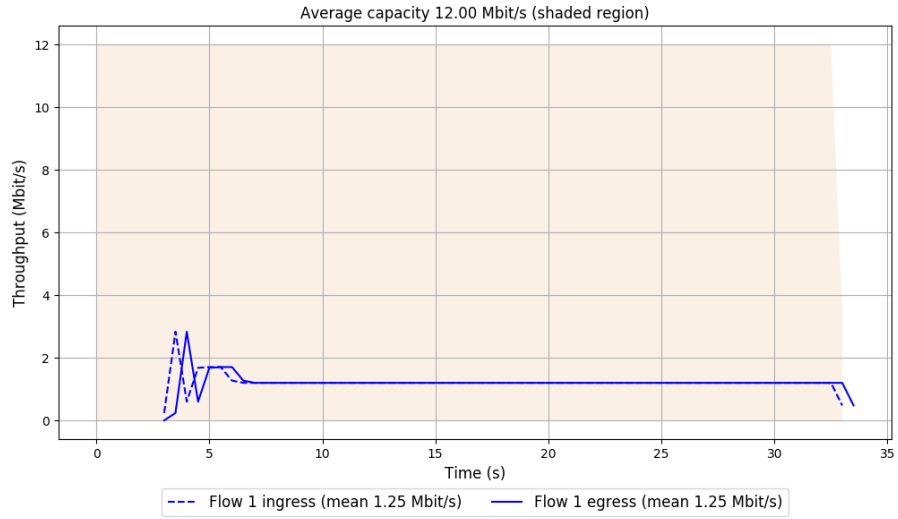
-- Flow 1:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 21.215 ms

Loss rate: 0.00%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2020-04-16 09:26:48

End at: 2020-04-16 09:27:18

Below is generated by plot.py at 2020-04-16 09:44:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.25 Mbit/s (10.4% utilization)

95th percentile per-packet one-way delay: 21.213 ms

Loss rate: 0.00%

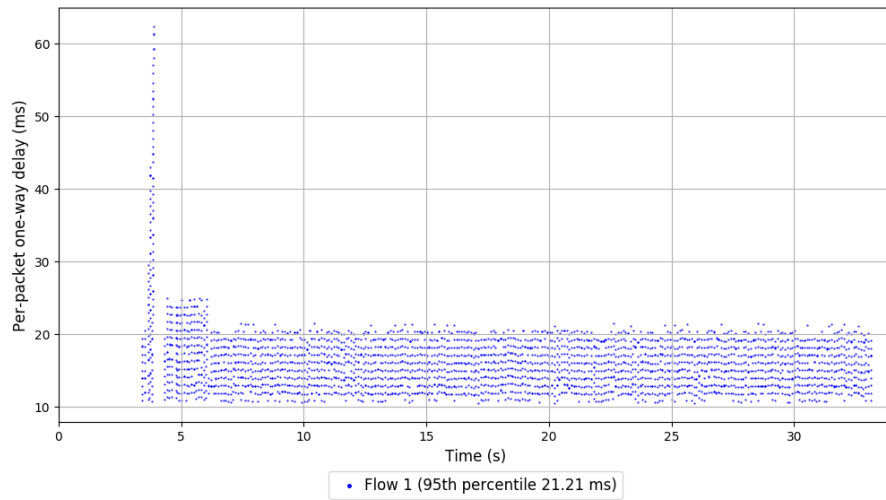
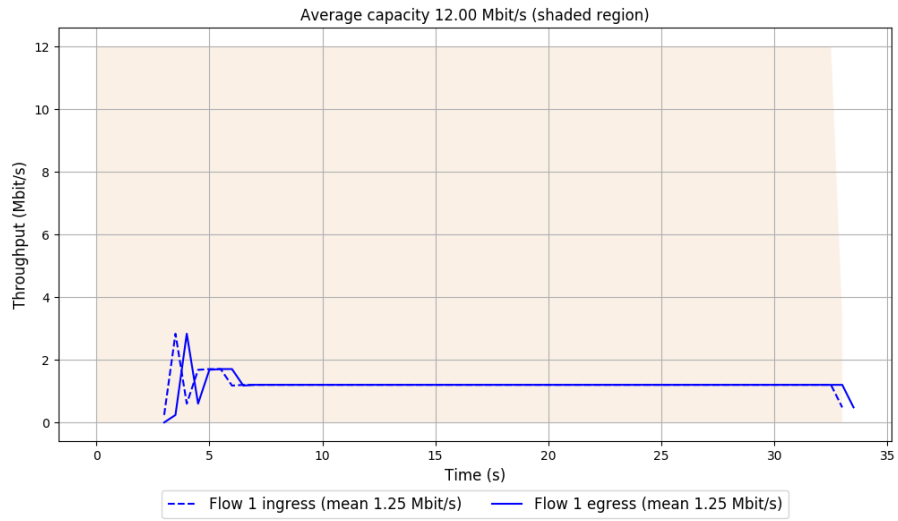
-- Flow 1:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 21.213 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2020-04-16 09:40:44

End at: 2020-04-16 09:41:14

Below is generated by plot.py at 2020-04-16 09:44:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.25 Mbit/s (10.4% utilization)

95th percentile per-packet one-way delay: 21.254 ms

Loss rate: 0.00%

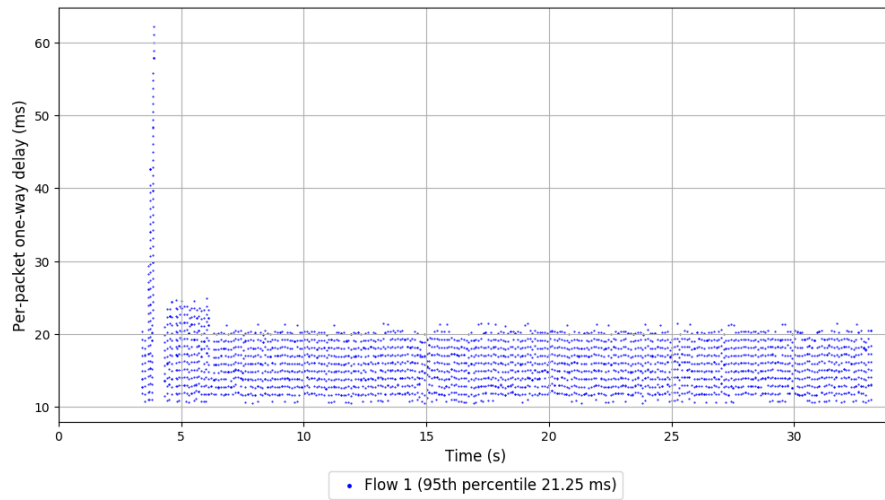
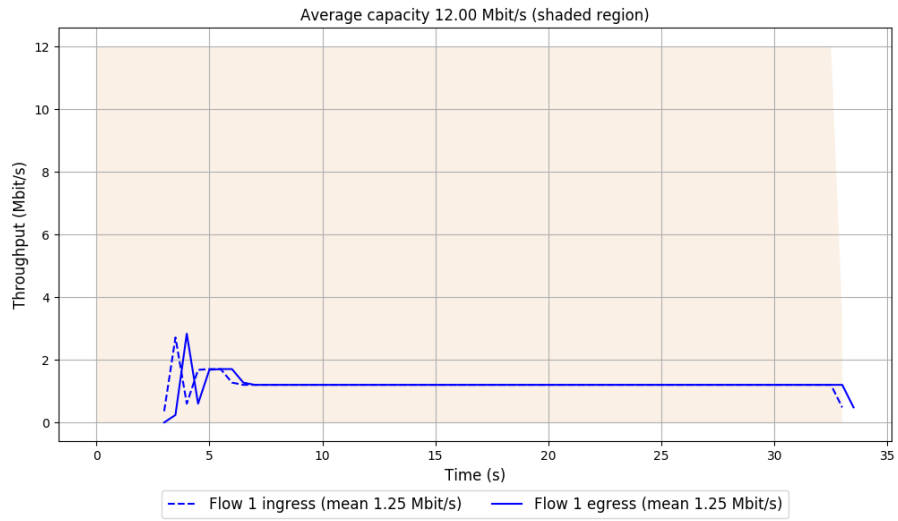
-- Flow 1:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 21.254 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

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

End at: 2020-04-16 09:10:29

Below is generated by plot.py at 2020-04-16 09:45:00

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 2.75 Mbit/s (22.9% utilization)

95th percentile per-packet one-way delay: 36.768 ms

Loss rate: 0.00%

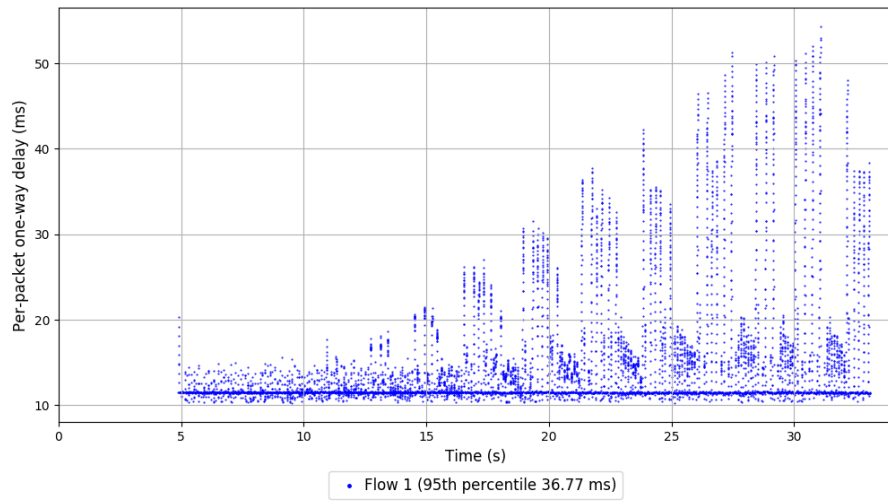
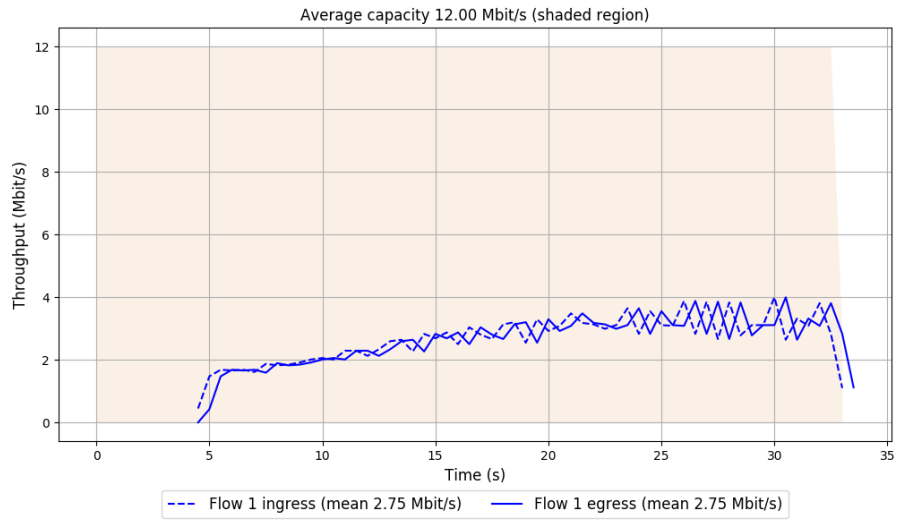
-- Flow 1:

Average throughput: 2.75 Mbit/s

95th percentile per-packet one-way delay: 36.768 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2020-04-16 09:23:55

End at: 2020-04-16 09:24:25

Below is generated by plot.py at 2020-04-16 09:45:01

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 2.74 Mbit/s (22.9% utilization)

95th percentile per-packet one-way delay: 35.547 ms

Loss rate: 0.38%

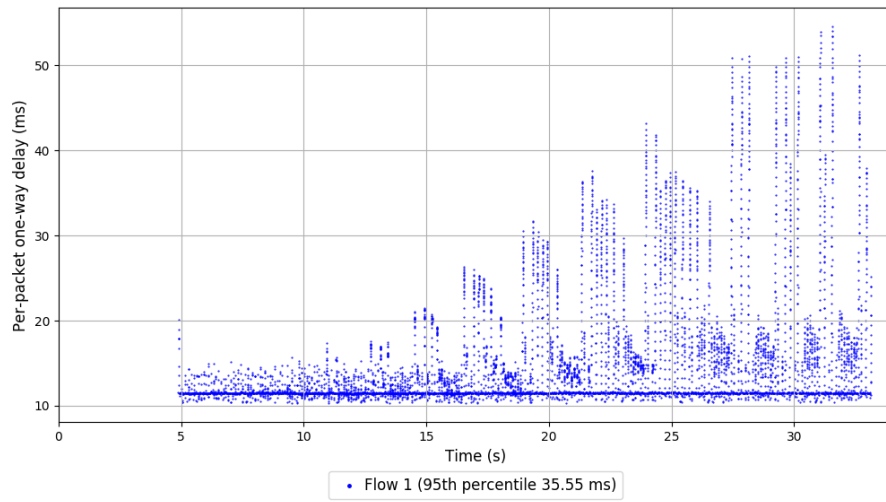
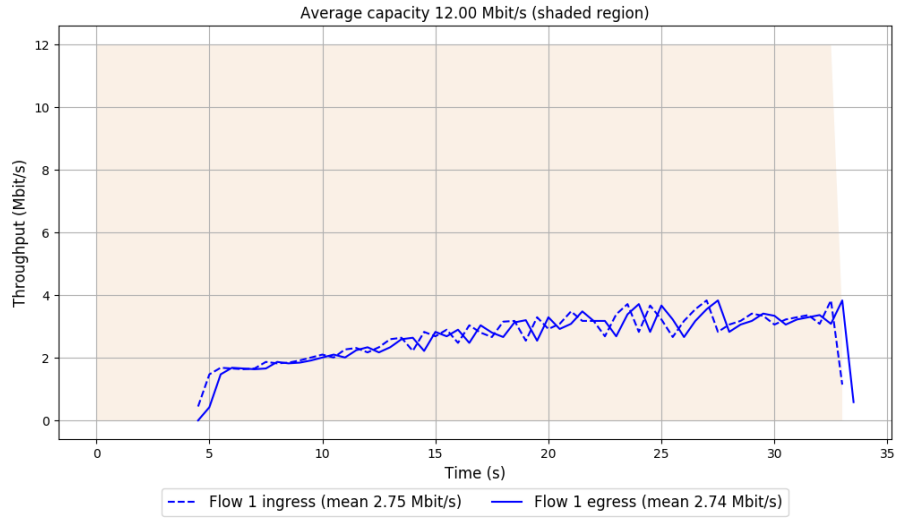
-- Flow 1:

Average throughput: 2.74 Mbit/s

95th percentile per-packet one-way delay: 35.547 ms

Loss rate: 0.38%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2020-04-16 09:37:50

End at: 2020-04-16 09:38:20

Below is generated by plot.py at 2020-04-16 09:45:05

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 2.74 Mbit/s (22.8% utilization)

95th percentile per-packet one-way delay: 34.216 ms

Loss rate: 0.06%

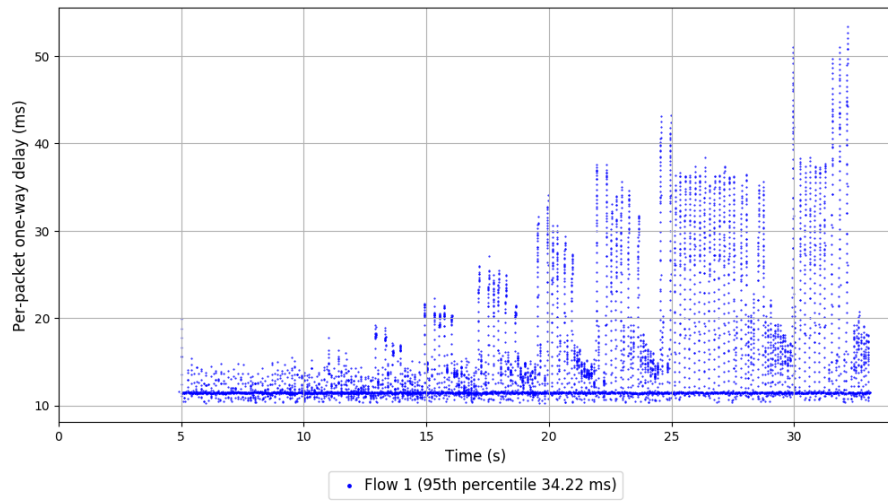
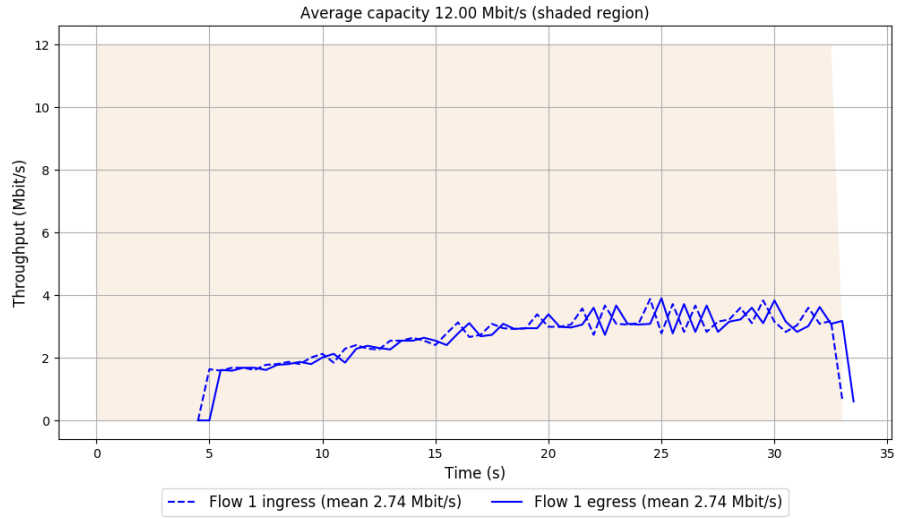
-- Flow 1:

Average throughput: 2.74 Mbit/s

95th percentile per-packet one-way delay: 34.216 ms

Loss rate: 0.06%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

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

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

Below is generated by plot.py at 2020-04-16 09:45:06

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 3.06 Mbit/s (25.5% utilization)

95th percentile per-packet one-way delay: 35.019 ms

Loss rate: 0.49%

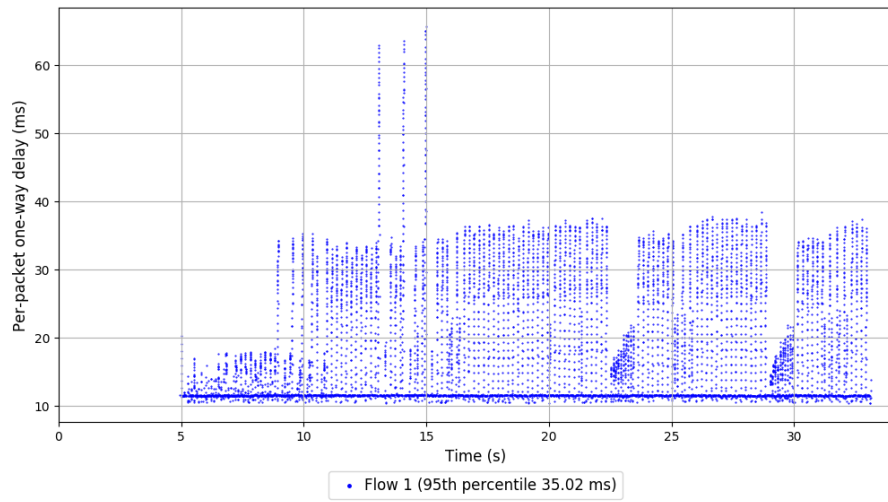
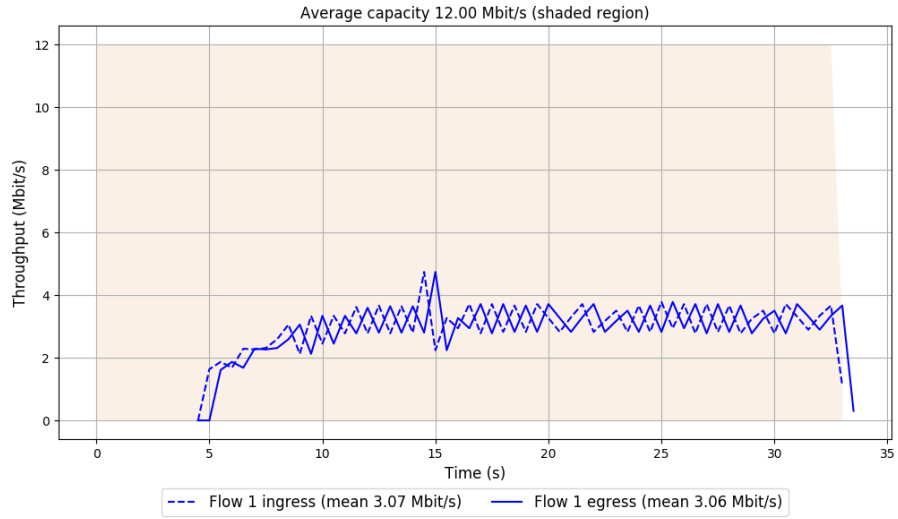
-- Flow 1:

Average throughput: 3.06 Mbit/s

95th percentile per-packet one-way delay: 35.019 ms

Loss rate: 0.49%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2020-04-16 09:18:06

End at: 2020-04-16 09:18:36

Below is generated by plot.py at 2020-04-16 09:45:10

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 3.05 Mbit/s (25.4% utilization)

95th percentile per-packet one-way delay: 35.651 ms

Loss rate: 0.03%

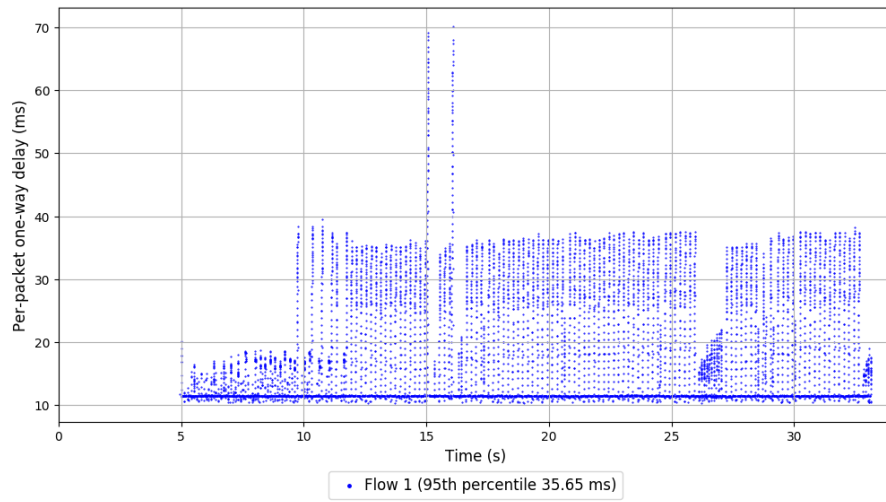
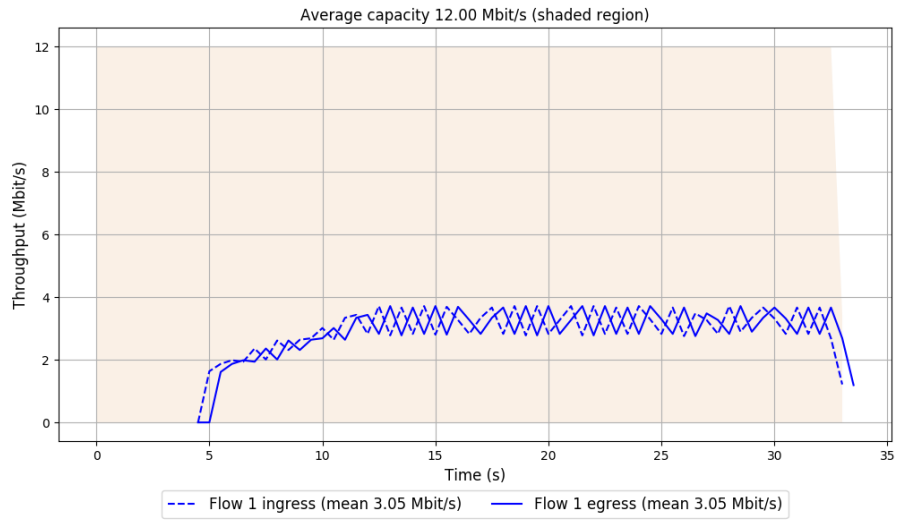
-- Flow 1:

Average throughput: 3.05 Mbit/s

95th percentile per-packet one-way delay: 35.651 ms

Loss rate: 0.03%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2020-04-16 09:32:01

End at: 2020-04-16 09:32:31

Below is generated by plot.py at 2020-04-16 09:45:11

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 3.07 Mbit/s (25.6% utilization)

95th percentile per-packet one-way delay: 34.703 ms

Loss rate: 0.01%

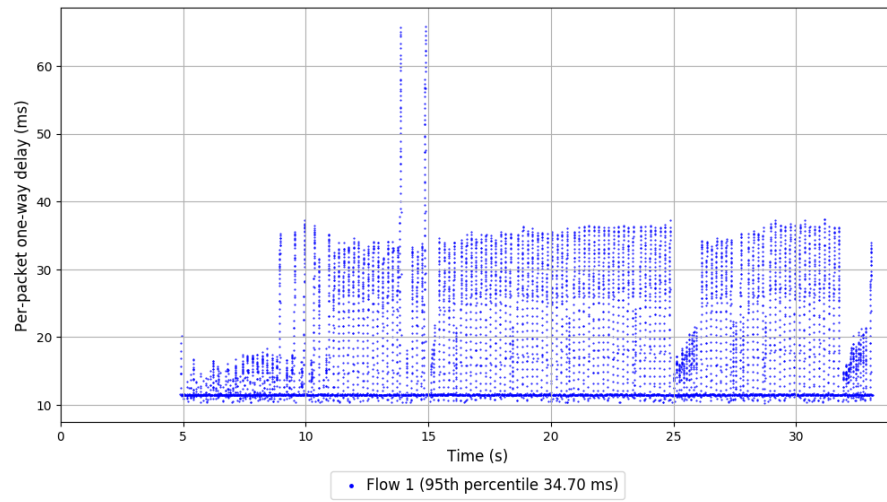
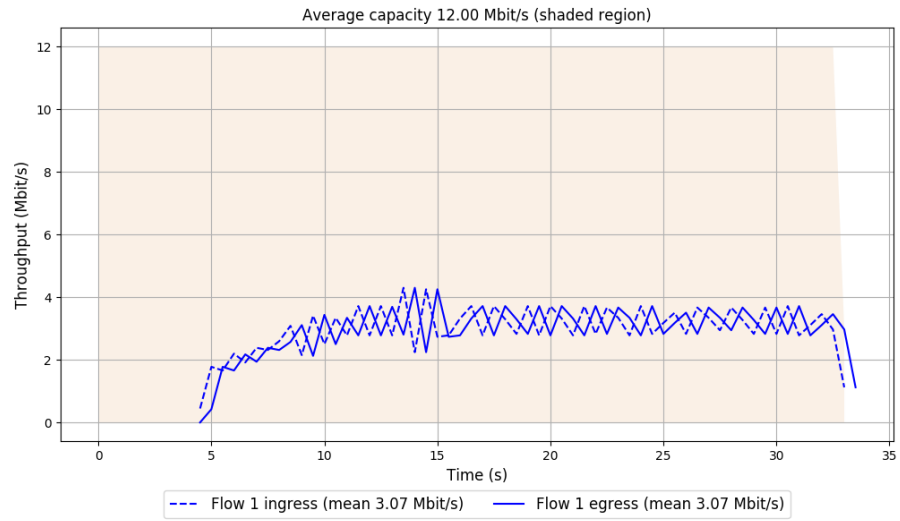
-- Flow 1:

Average throughput: 3.07 Mbit/s

95th percentile per-packet one-way delay: 34.703 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2020-04-16 09:08:15

End at: 2020-04-16 09:08:45

Below is generated by plot.py at 2020-04-16 09:45:12

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 2.96 Mbit/s (24.7% utilization)

95th percentile per-packet one-way delay: 19.185 ms

Loss rate: 0.25%

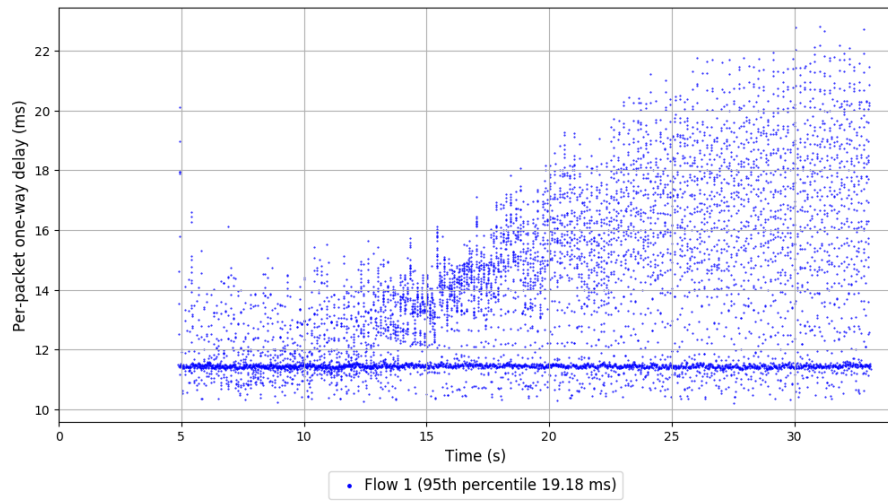
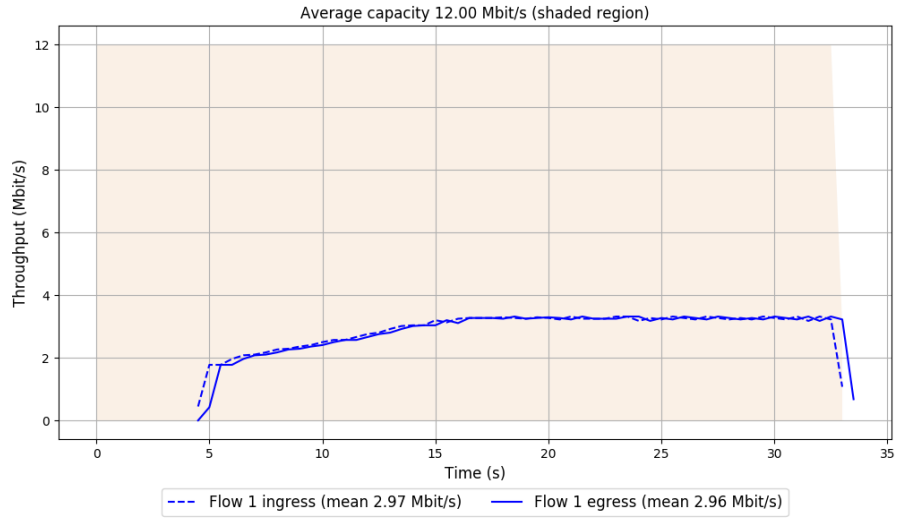
-- Flow 1:

Average throughput: 2.96 Mbit/s

95th percentile per-packet one-way delay: 19.185 ms

Loss rate: 0.25%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2020-04-16 09:22:10

End at: 2020-04-16 09:22:40

Below is generated by plot.py at 2020-04-16 09:45:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 2.96 Mbit/s (24.6% utilization)

95th percentile per-packet one-way delay: 19.061 ms

Loss rate: 0.08%

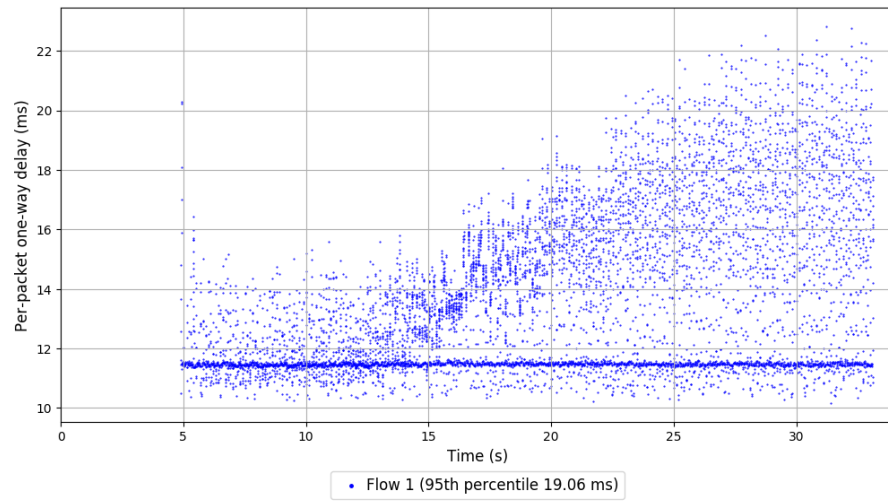
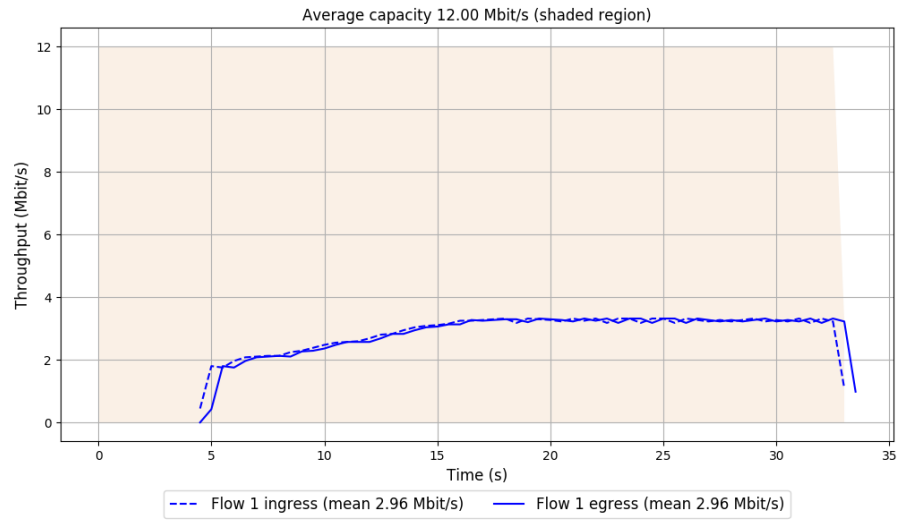
-- Flow 1:

Average throughput: 2.96 Mbit/s

95th percentile per-packet one-way delay: 19.061 ms

Loss rate: 0.08%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2020-04-16 09:36:05

End at: 2020-04-16 09:36:35

Below is generated by plot.py at 2020-04-16 09:45:15

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 2.95 Mbit/s (24.6% utilization)

95th percentile per-packet one-way delay: 18.899 ms

Loss rate: 0.13%

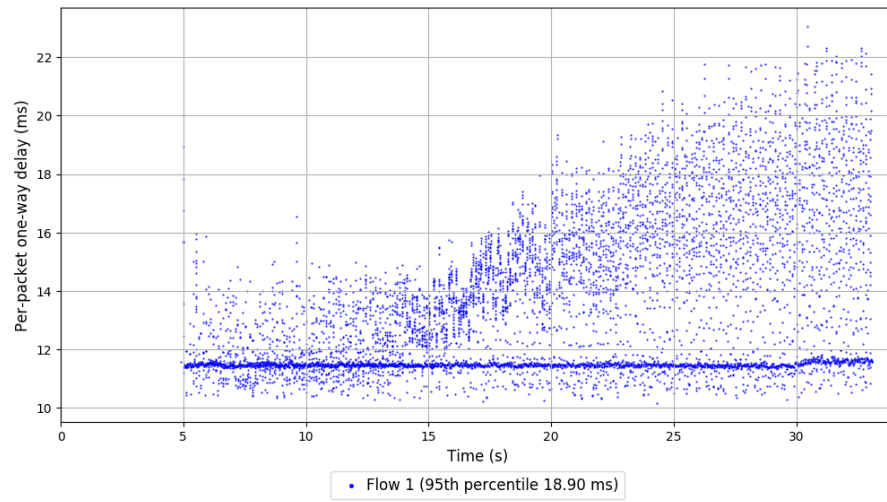
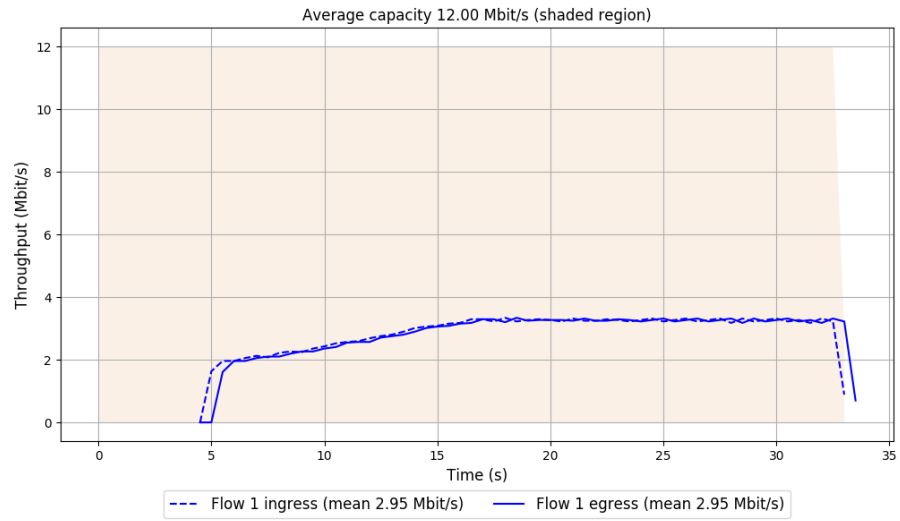
-- Flow 1:

Average throughput: 2.95 Mbit/s

95th percentile per-packet one-way delay: 18.899 ms

Loss rate: 0.13%

Run 3: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MuseST

Start at: 2020-04-16 09:11:43

End at: 2020-04-16 09:12:13

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

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 2.97 Mbit/s (24.7% utilization)

95th percentile per-packet one-way delay: 34.873 ms

Loss rate: 0.01%

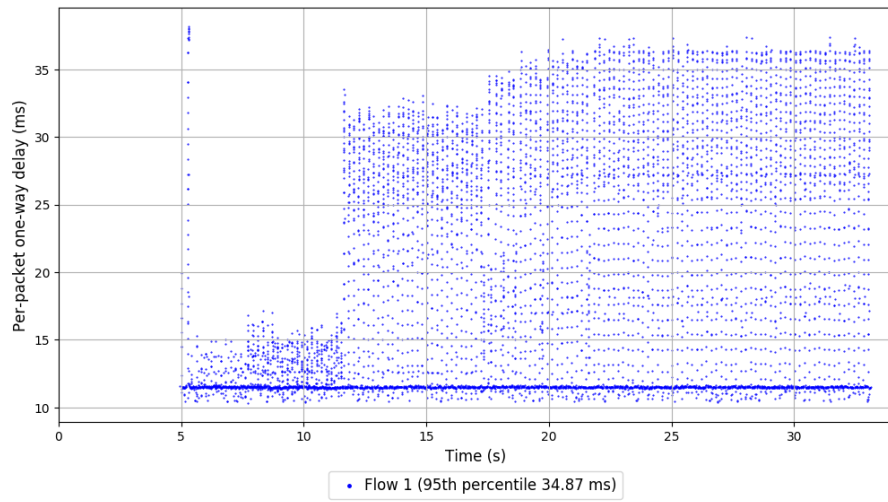
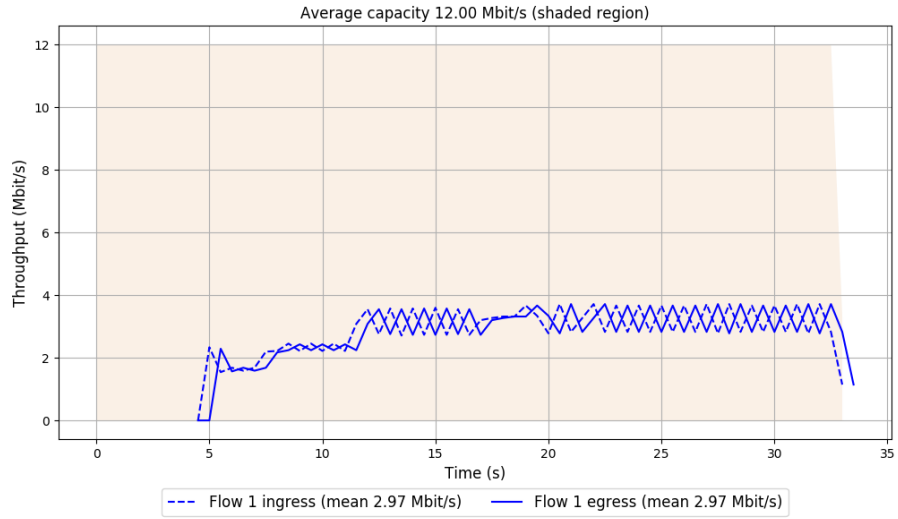
-- Flow 1:

Average throughput: 2.97 Mbit/s

95th percentile per-packet one-way delay: 34.873 ms

Loss rate: 0.01%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MuseST

Start at: 2020-04-16 09:25:39

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

Below is generated by plot.py at 2020-04-16 09:45:19

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 2.96 Mbit/s (24.6% utilization)

95th percentile per-packet one-way delay: 35.060 ms

Loss rate: 0.50%

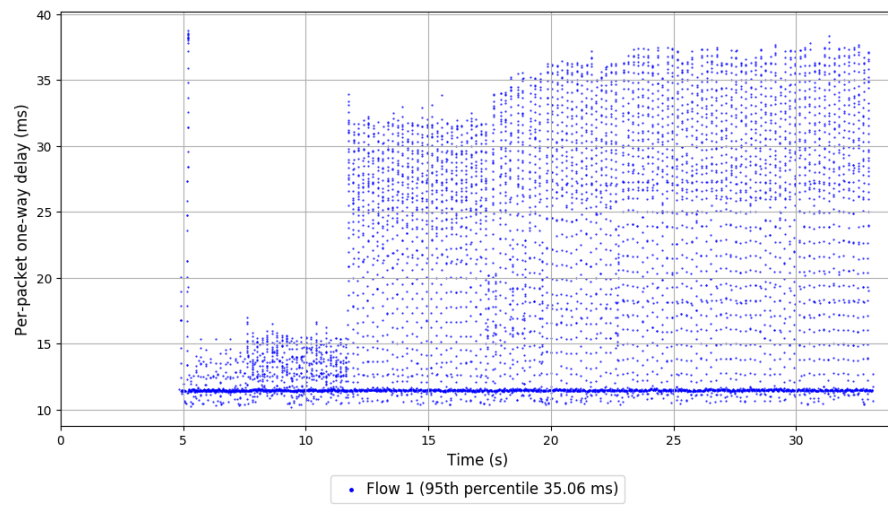
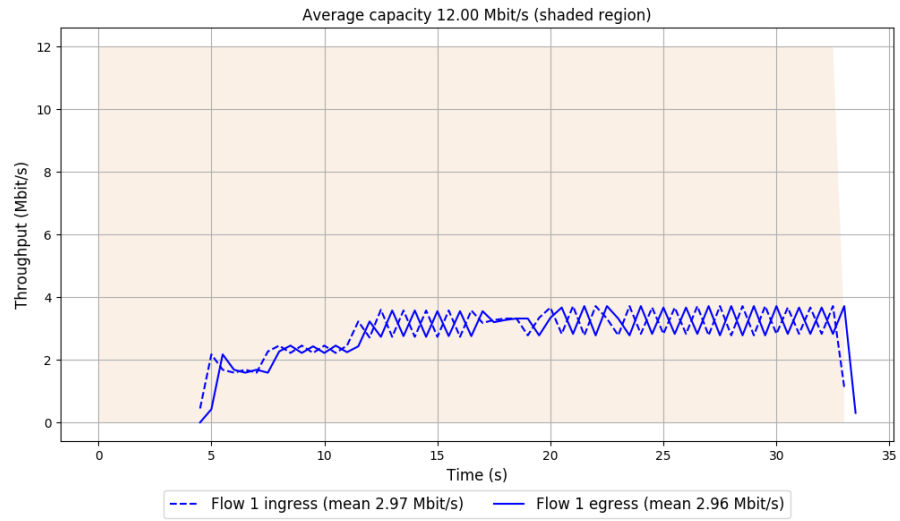
-- Flow 1:

Average throughput: 2.96 Mbit/s

95th percentile per-packet one-way delay: 35.060 ms

Loss rate: 0.50%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MuseST

Start at: 2020-04-16 09:39:34

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

Below is generated by plot.py at 2020-04-16 09:45:20

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 2.97 Mbit/s (24.7% utilization)

95th percentile per-packet one-way delay: 34.606 ms

Loss rate: 0.01%

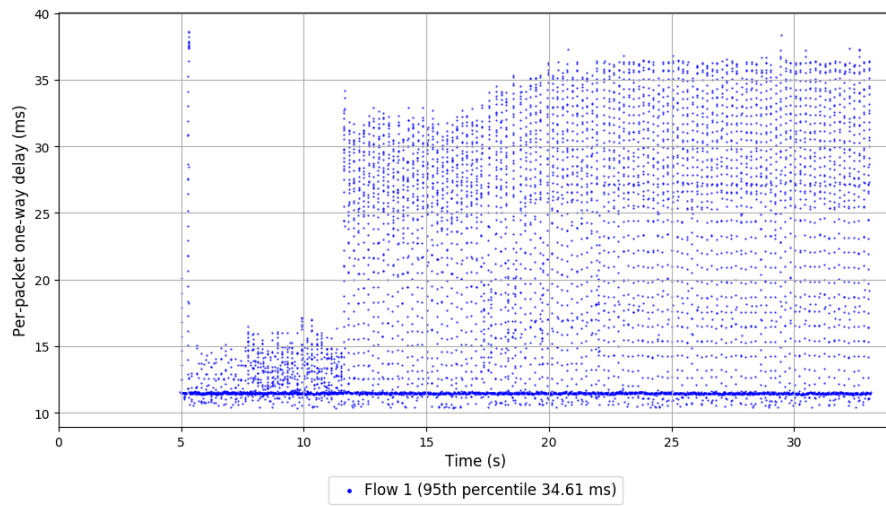
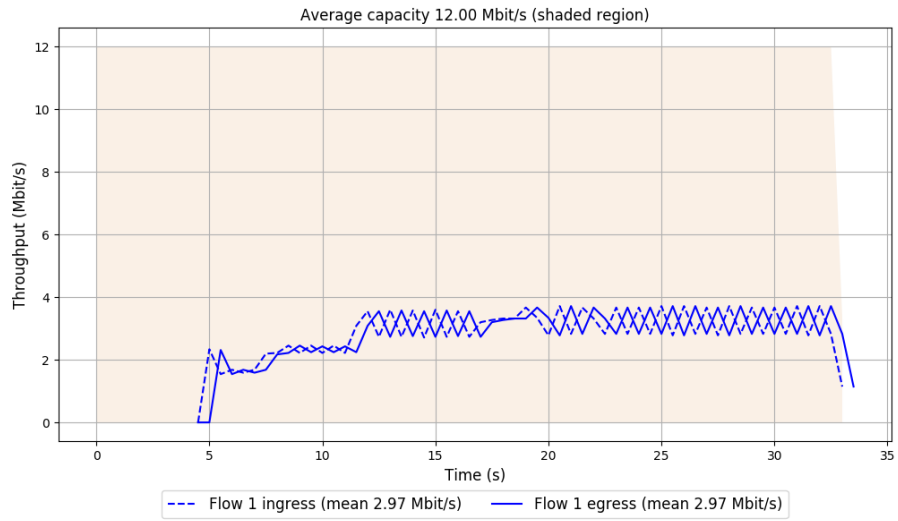
-- Flow 1:

Average throughput: 2.97 Mbit/s

95th percentile per-packet one-way delay: 34.606 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2020-04-16 09:07:05

End at: 2020-04-16 09:07:35

Below is generated by plot.py at 2020-04-16 09:45:25

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 2.46 Mbit/s (20.5% utilization)

95th percentile per-packet one-way delay: 31.325 ms

Loss rate: 0.00%

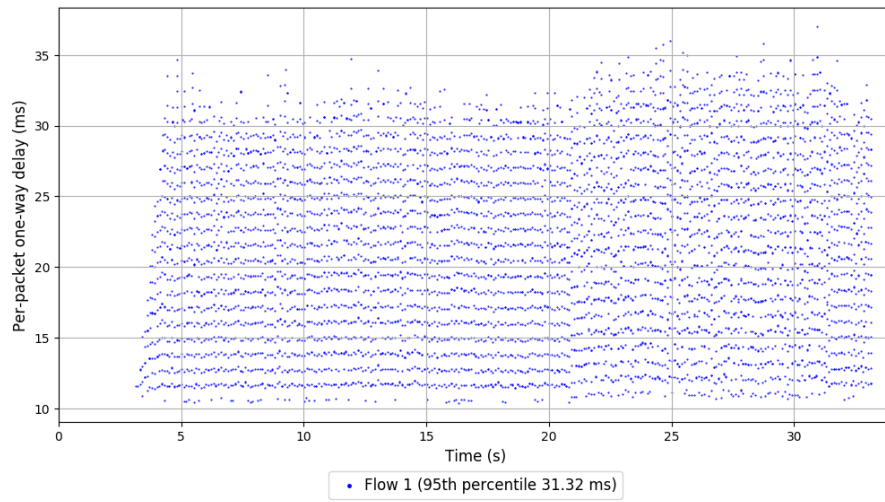
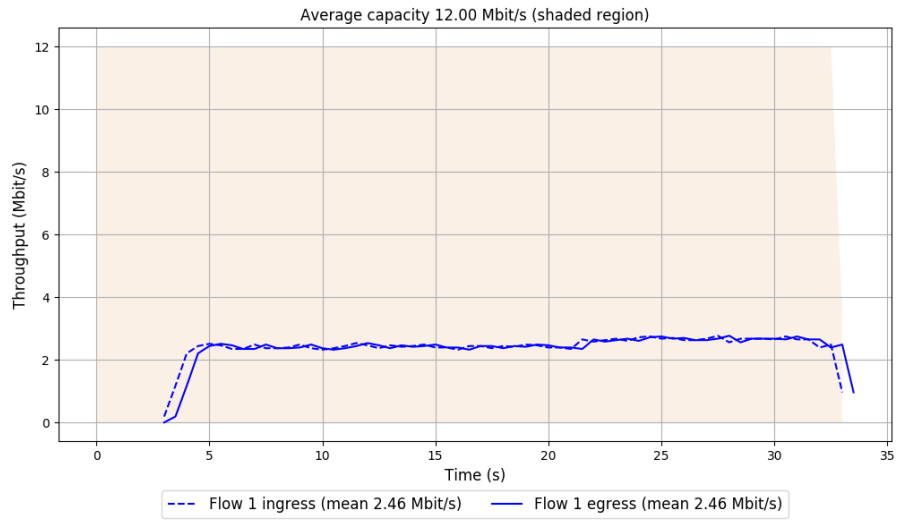
-- Flow 1:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 31.325 ms

Loss rate: 0.00%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2020-04-16 09:21:00

End at: 2020-04-16 09:21:30

Below is generated by plot.py at 2020-04-16 09:45:26

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 2.44 Mbit/s (20.3% utilization)

95th percentile per-packet one-way delay: 31.226 ms

Loss rate: 0.00%

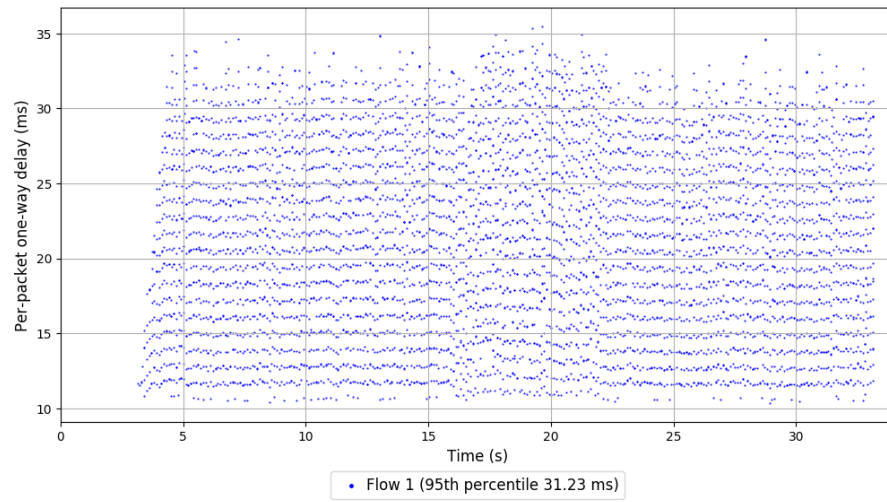
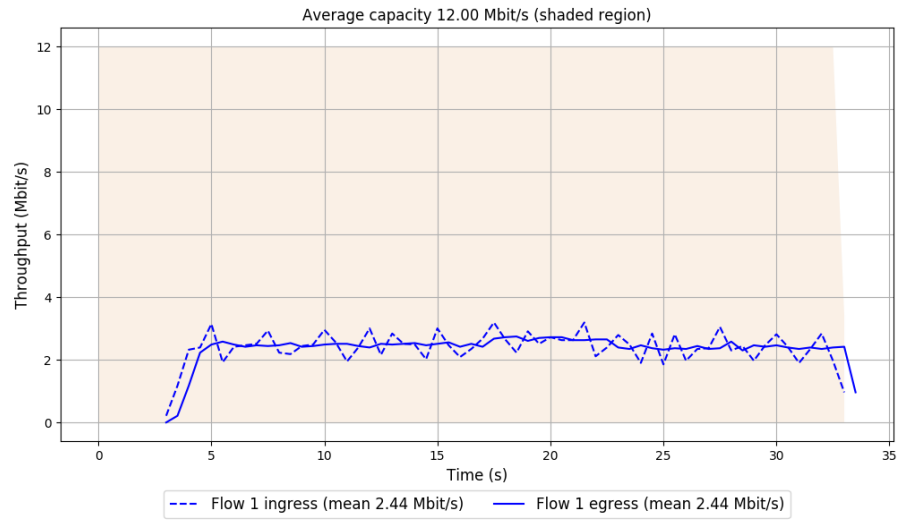
-- Flow 1:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 31.226 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2020-04-16 09:34:55

End at: 2020-04-16 09:35:25

Below is generated by plot.py at 2020-04-16 09:45:27

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 2.35 Mbit/s (19.6% utilization)

95th percentile per-packet one-way delay: 30.209 ms

Loss rate: 0.30%

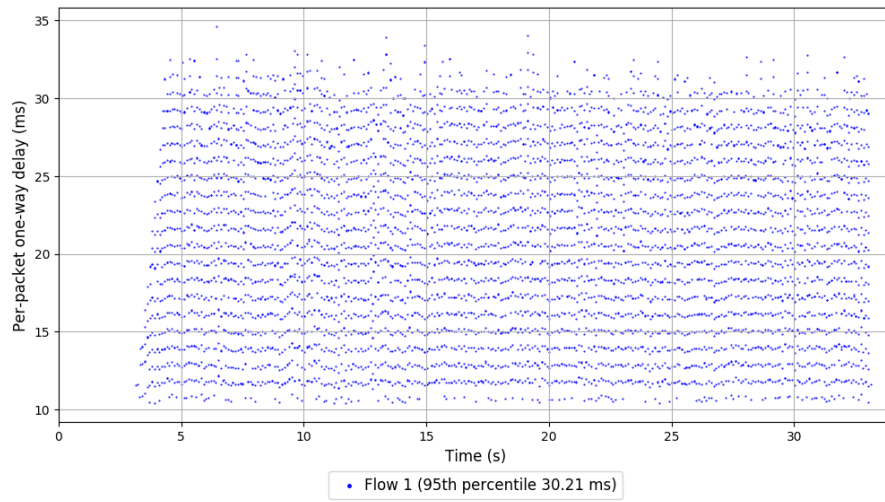
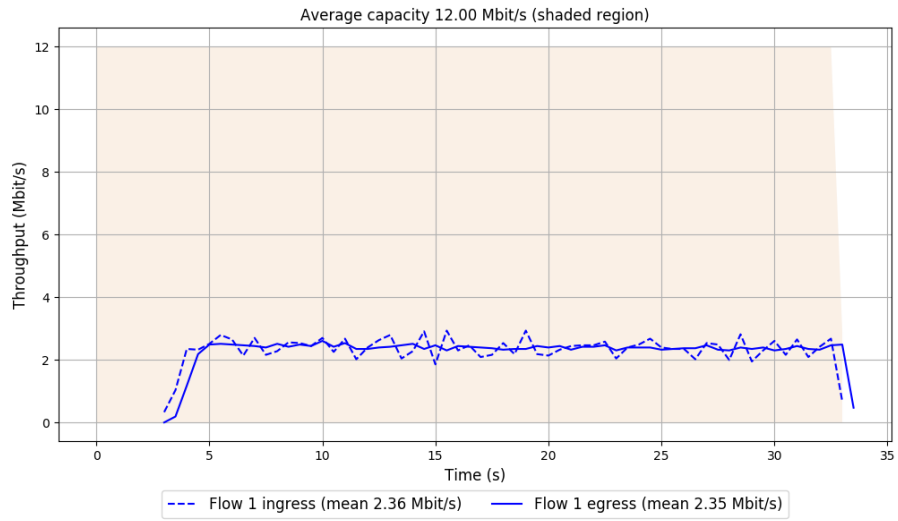
-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 30.209 ms

Loss rate: 0.30%

Run 3: Report of LEDBAT — Data Link



Run 1: Statistics of Muses_DecisionTree

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 09:45:27

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 0.38 Mbit/s (3.1% utilization)

95th percentile per-packet one-way delay: 23.126 ms

Loss rate: 0.00%

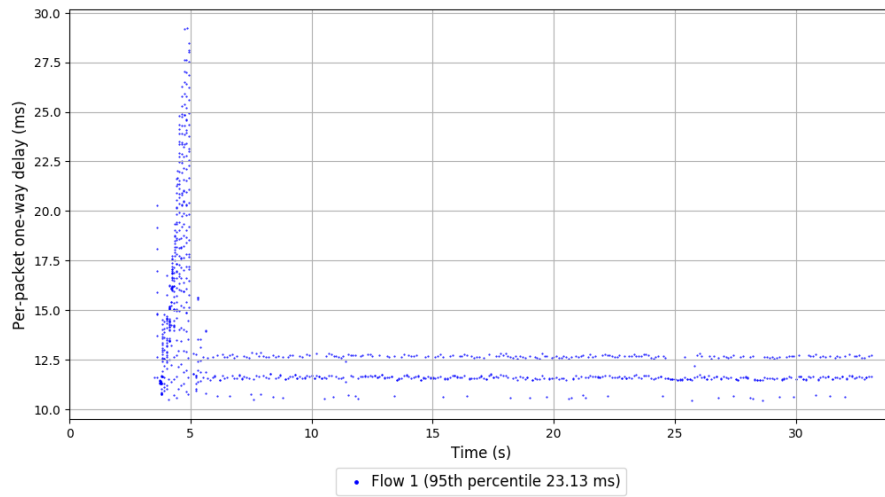
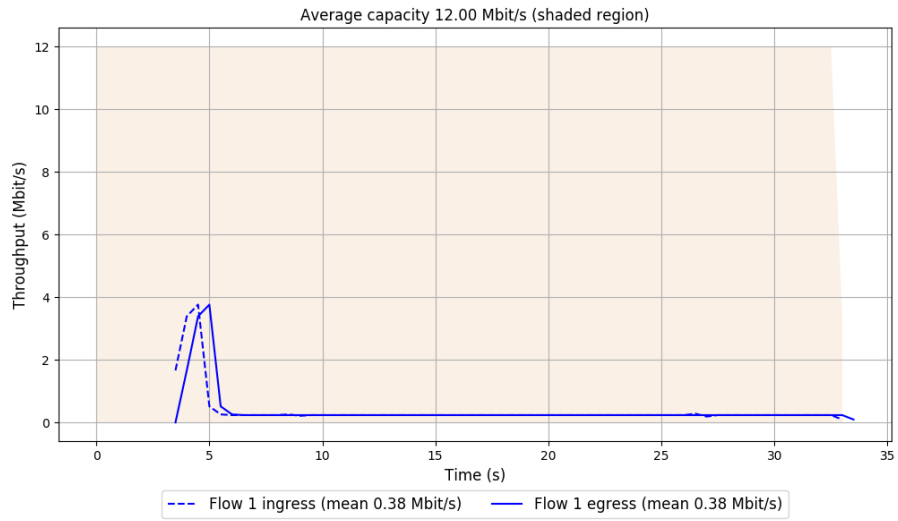
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 23.126 ms

Loss rate: 0.00%

Run 1: Report of Muses_DecisionTree — Data Link



Run 2: Statistics of Muses_DecisionTree

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

End at: 2020-04-16 09:17:26

Below is generated by plot.py at 2020-04-16 09:45:27

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 0.31 Mbit/s (2.6% utilization)

95th percentile per-packet one-way delay: 17.017 ms

Loss rate: 0.13%

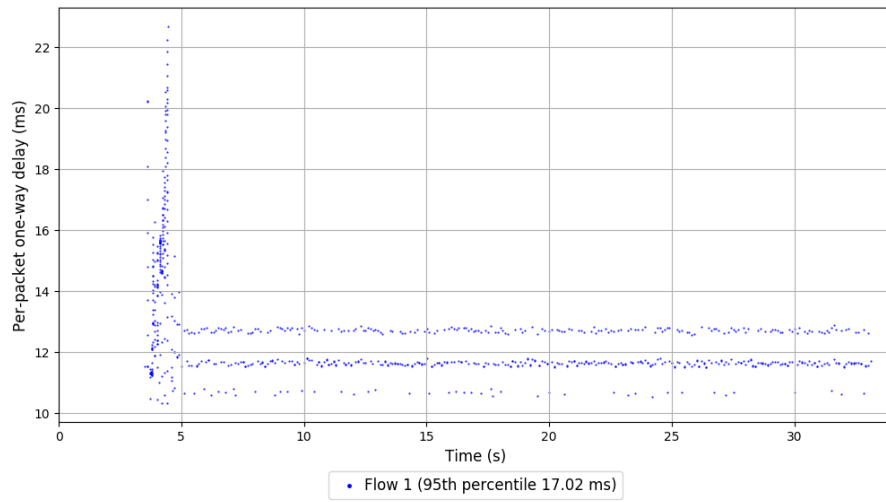
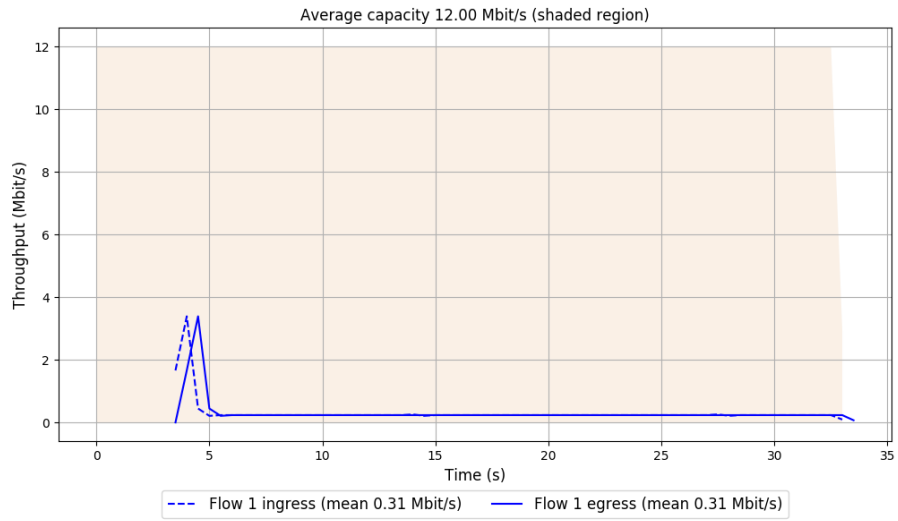
-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 17.017 ms

Loss rate: 0.13%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

Start at: 2020-04-16 09:30:52

End at: 2020-04-16 09:31:22

Below is generated by plot.py at 2020-04-16 09:45:27

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 0.32 Mbit/s (2.6% utilization)

95th percentile per-packet one-way delay: 17.113 ms

Loss rate: 0.25%

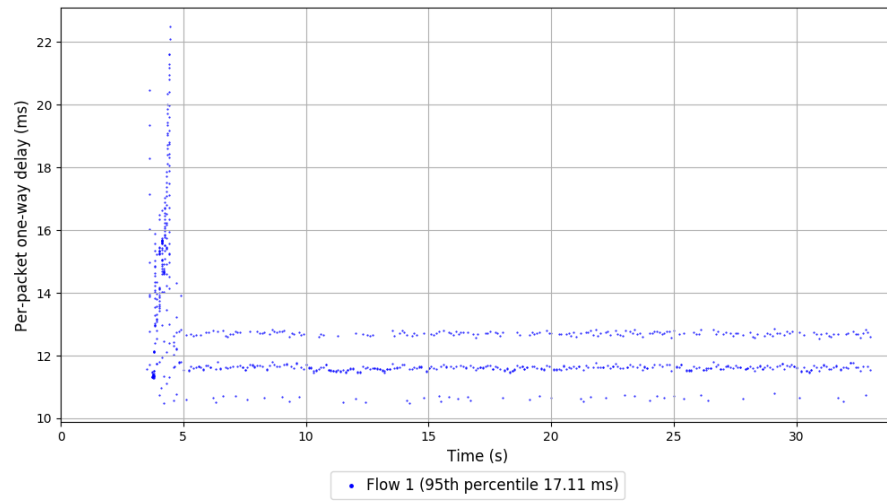
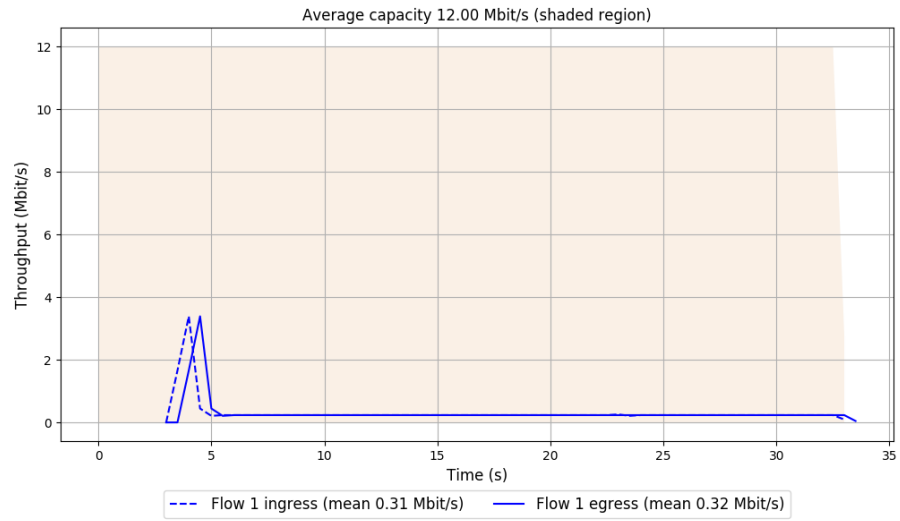
-- Flow 1:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 17.113 ms

Loss rate: 0.25%

Run 3: Report of Muses_DecisionTree — Data Link



Run 1: Statistics of Muses_DecisionTreeH0

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 09:45:29

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 0.34 Mbit/s (2.8% utilization)

95th percentile per-packet one-way delay: 19.938 ms

Loss rate: 0.00%

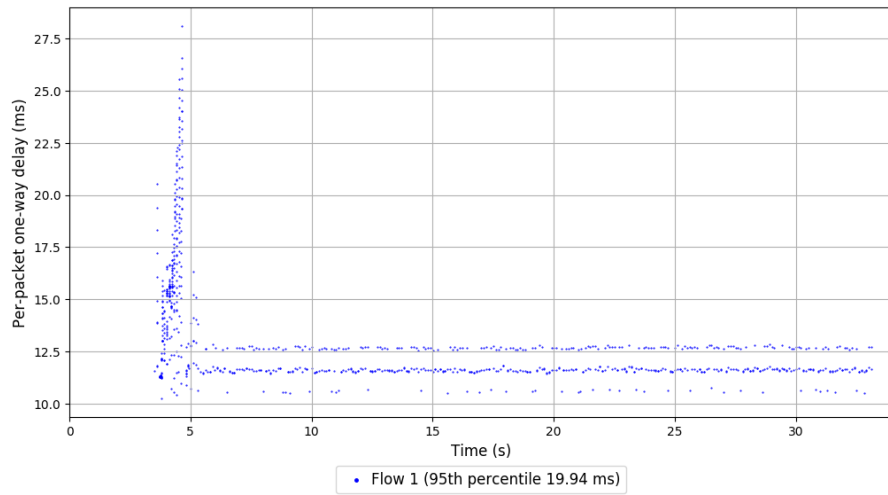
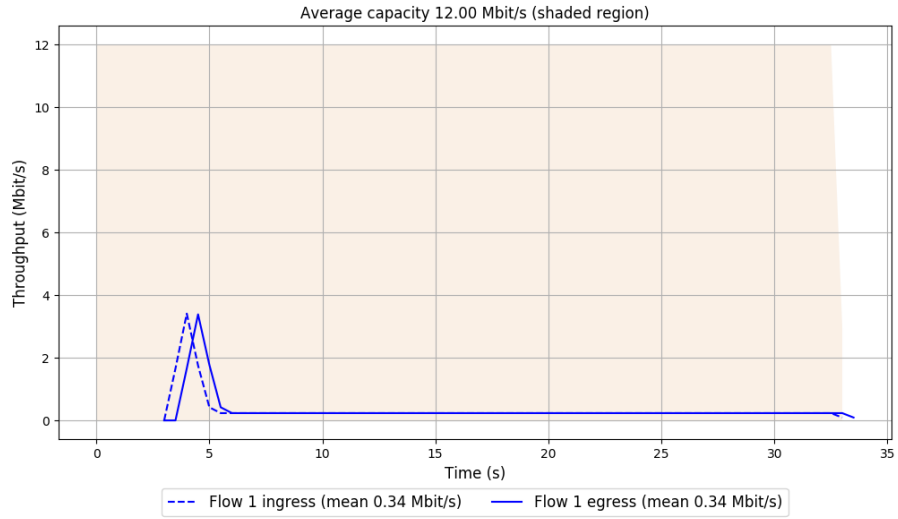
-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 19.938 ms

Loss rate: 0.00%

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2020-04-16 09:17:31

End at: 2020-04-16 09:18:01

Below is generated by plot.py at 2020-04-16 09:45:31

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 0.34 Mbit/s (2.8% utilization)

95th percentile per-packet one-way delay: 20.196 ms

Loss rate: 0.00%

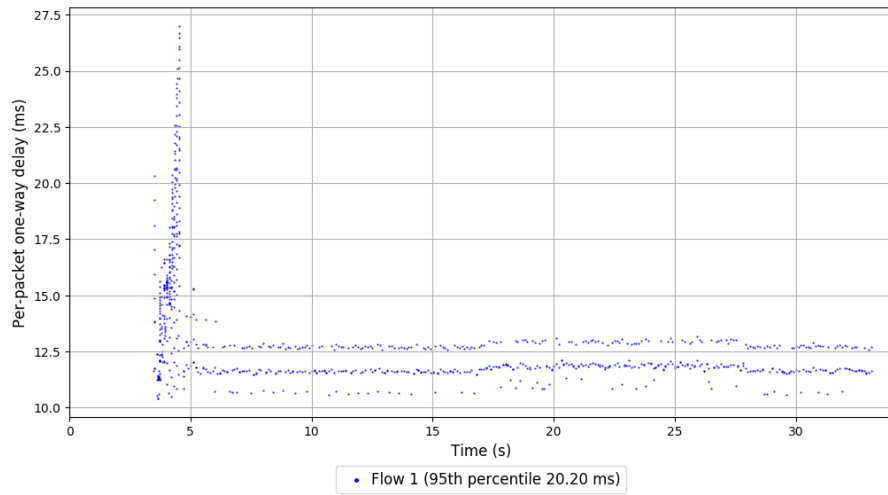
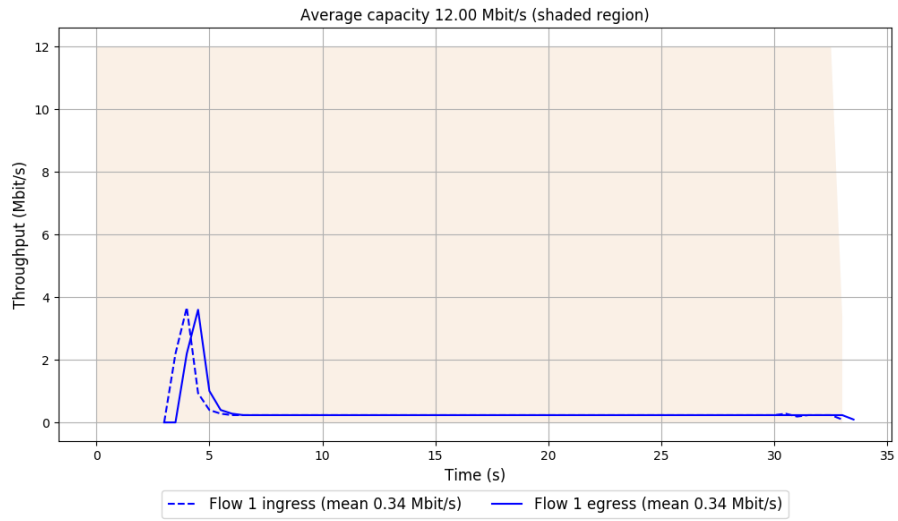
-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 20.196 ms

Loss rate: 0.00%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2020-04-16 09:31:26

End at: 2020-04-16 09:31:56

Below is generated by plot.py at 2020-04-16 09:45:33

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 0.32 Mbit/s (2.7% utilization)

95th percentile per-packet one-way delay: 16.977 ms

Loss rate: 0.00%

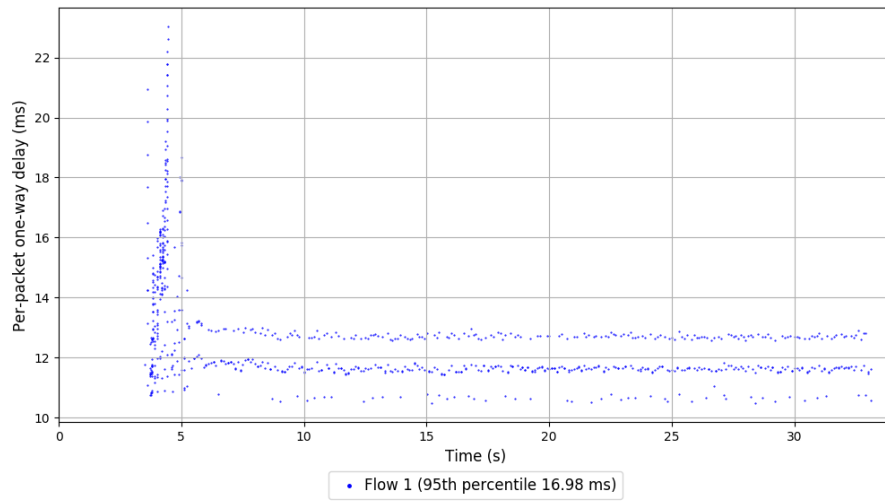
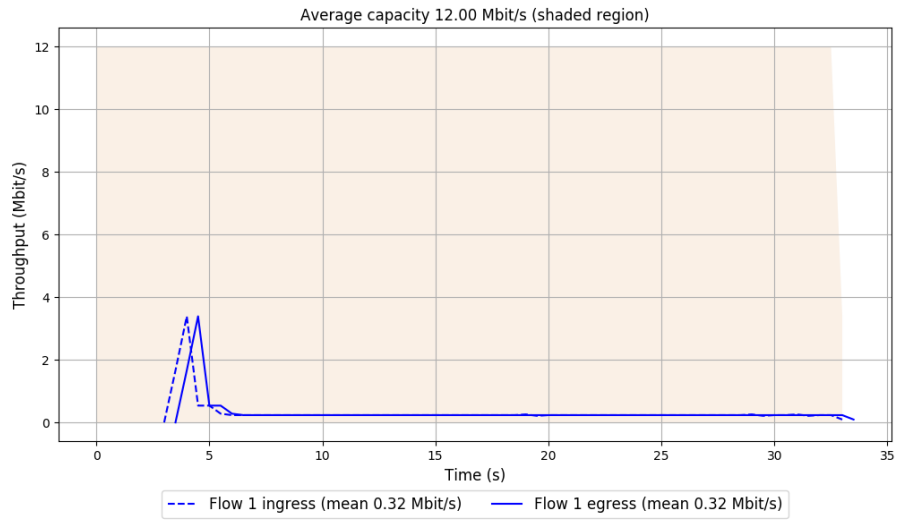
-- Flow 1:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 16.977 ms

Loss rate: 0.00%

Run 3: Report of Muses_DecisionTreeH0 — Data Link



Run 1: Statistics of Muses_DecisionTreeR0

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

End at: 2020-04-16 09:11:39

Below is generated by plot.py at 2020-04-16 09:45:36

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 0.34 Mbit/s (2.8% utilization)

95th percentile per-packet one-way delay: 20.527 ms

Loss rate: 0.23%

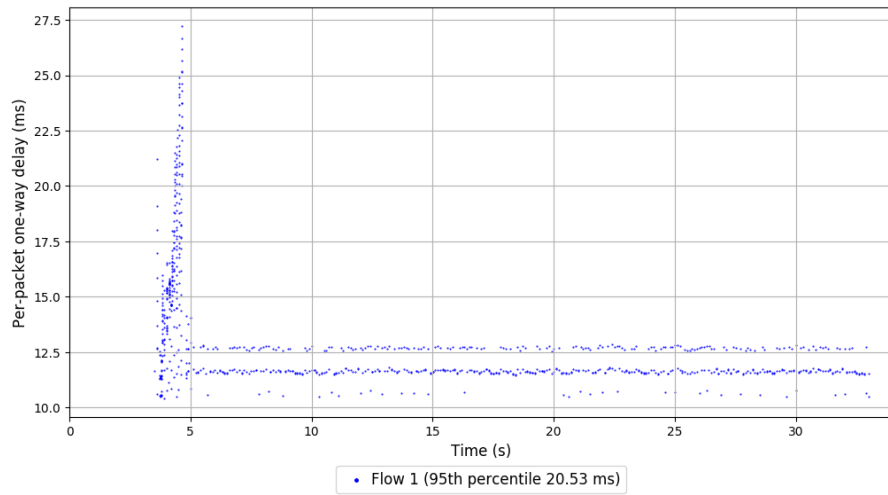
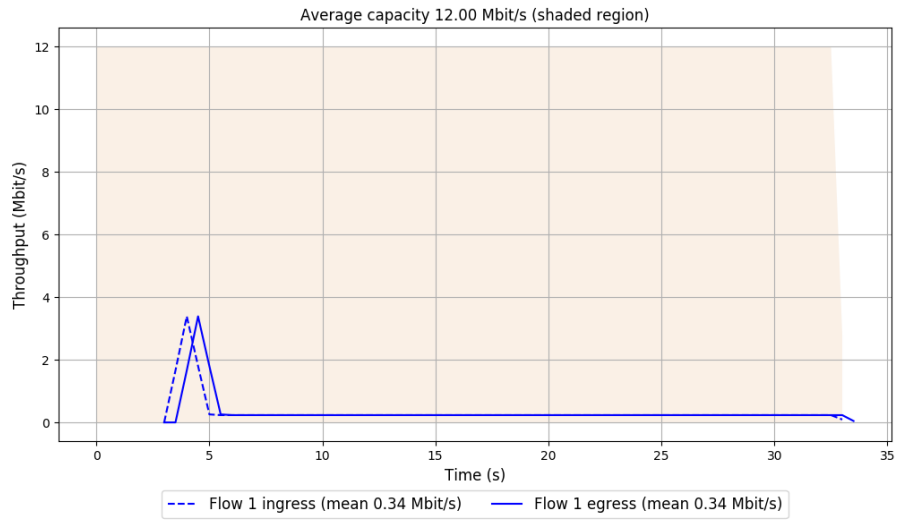
-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 20.527 ms

Loss rate: 0.23%

Run 1: Report of Muses_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses_DecisionTreeR0

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

End at: 2020-04-16 09:25:34

Below is generated by plot.py at 2020-04-16 09:45:36

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 0.34 Mbit/s (2.8% utilization)

95th percentile per-packet one-way delay: 20.398 ms

Loss rate: 0.23%

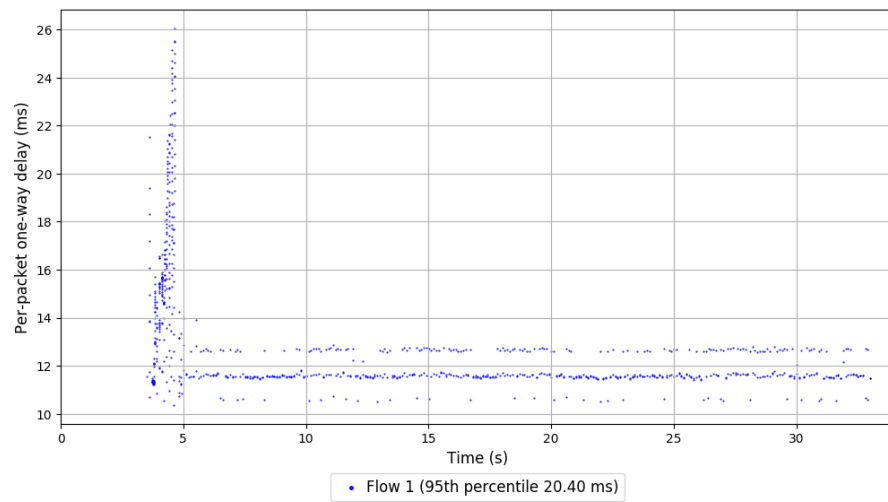
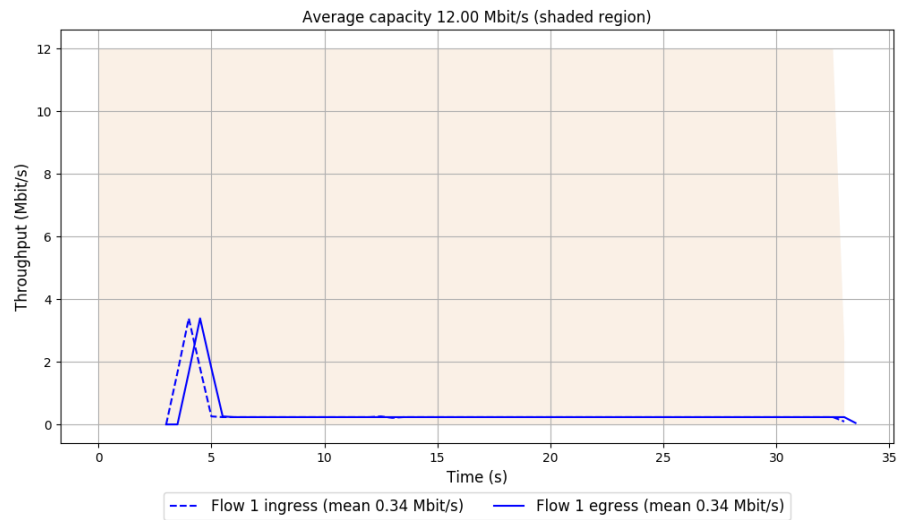
-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 20.398 ms

Loss rate: 0.23%

Run 2: Report of Muses_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses_DecisionTreeR0

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 09:45:37

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 0.38 Mbit/s (3.1% utilization)

95th percentile per-packet one-way delay: 23.151 ms

Loss rate: 0.00%

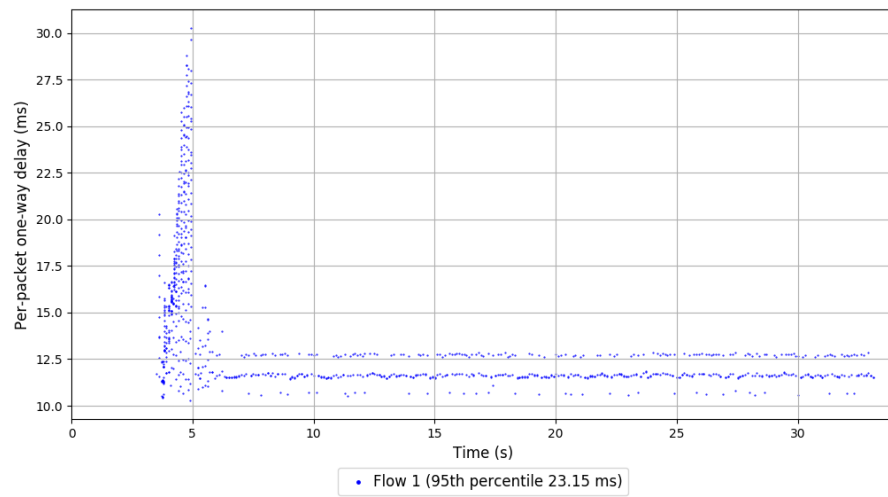
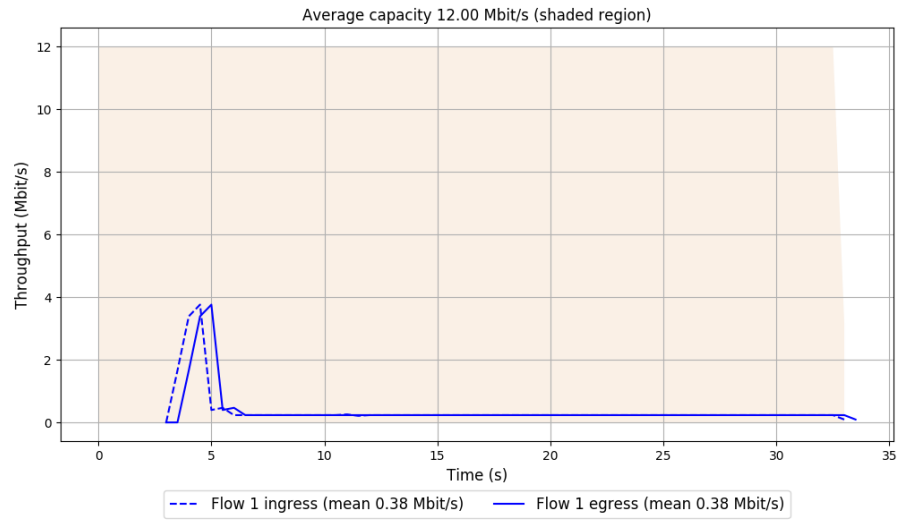
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 23.151 ms

Loss rate: 0.00%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

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

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

Below is generated by plot.py at 2020-04-16 09:45:51

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 8.33 Mbit/s (69.4% utilization)

95th percentile per-packet one-way delay: 252.288 ms

Loss rate: 0.03%

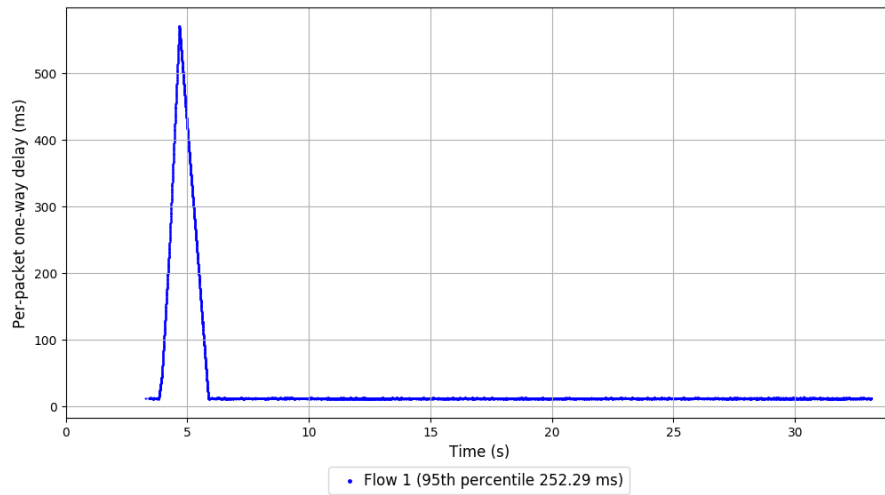
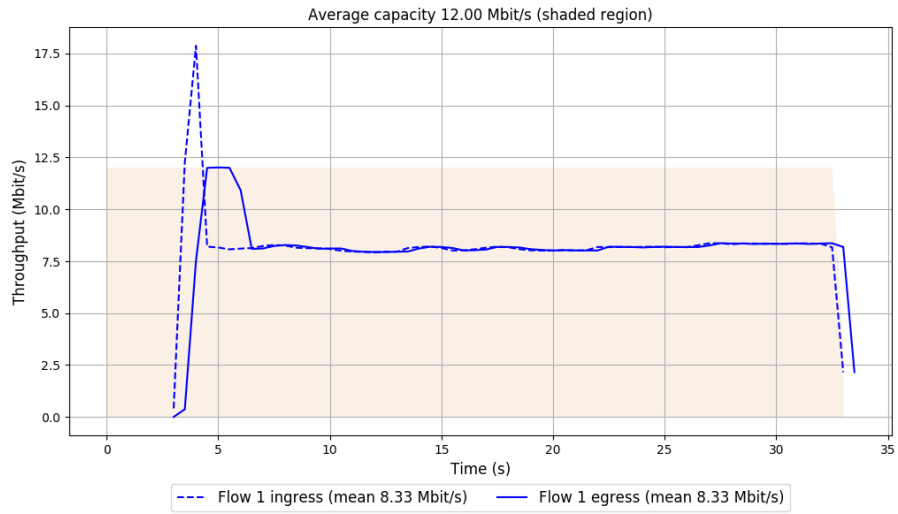
-- Flow 1:

Average throughput: 8.33 Mbit/s

95th percentile per-packet one-way delay: 252.288 ms

Loss rate: 0.03%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2020-04-16 09:23:20

End at: 2020-04-16 09:23:50

Below is generated by plot.py at 2020-04-16 09:45:51

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 8.40 Mbit/s (70.0% utilization)

95th percentile per-packet one-way delay: 257.479 ms

Loss rate: 0.03%

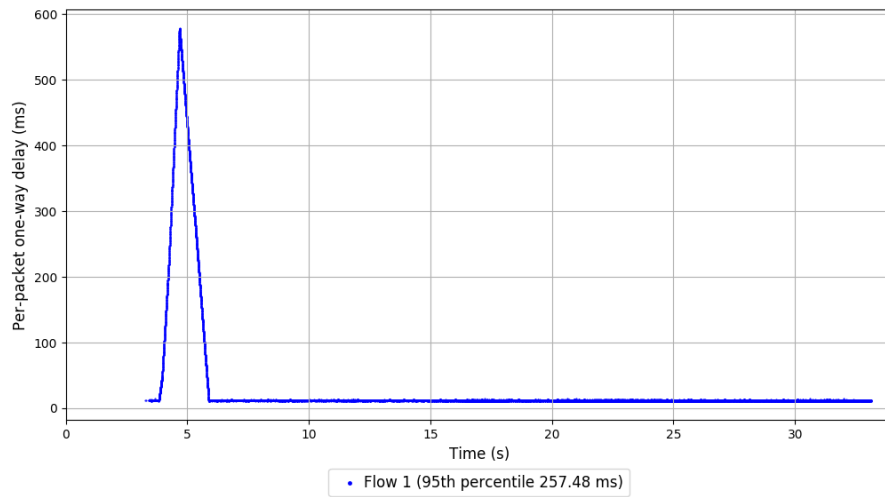
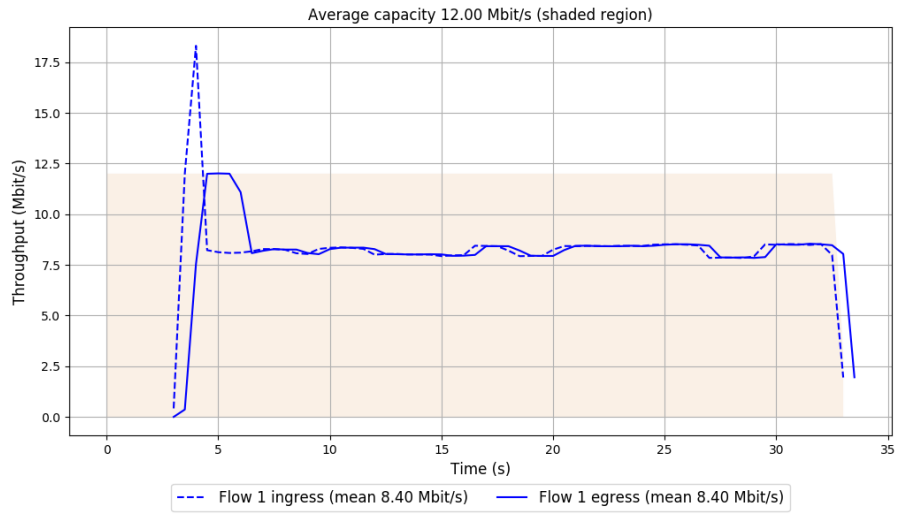
-- Flow 1:

Average throughput: 8.40 Mbit/s

95th percentile per-packet one-way delay: 257.479 ms

Loss rate: 0.03%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2020-04-16 09:37:15

End at: 2020-04-16 09:37:45

Below is generated by plot.py at 2020-04-16 09:45:53

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 8.11 Mbit/s (67.6% utilization)

95th percentile per-packet one-way delay: 210.801 ms

Loss rate: 0.04%

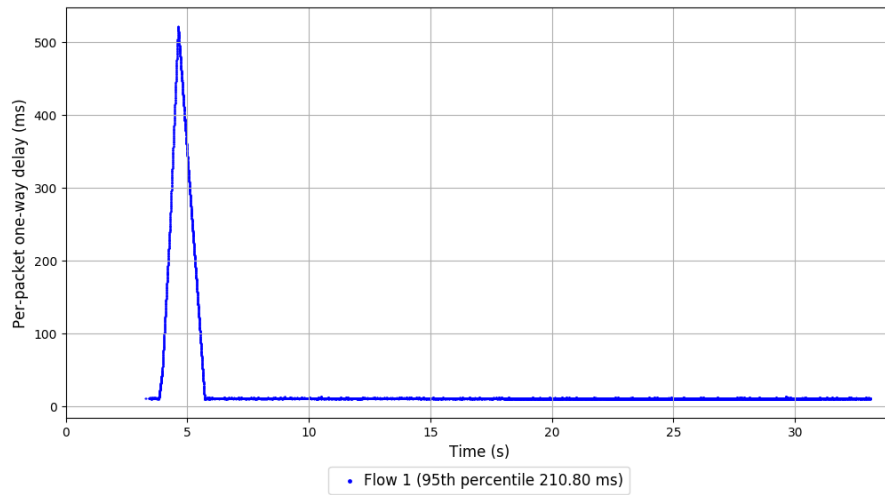
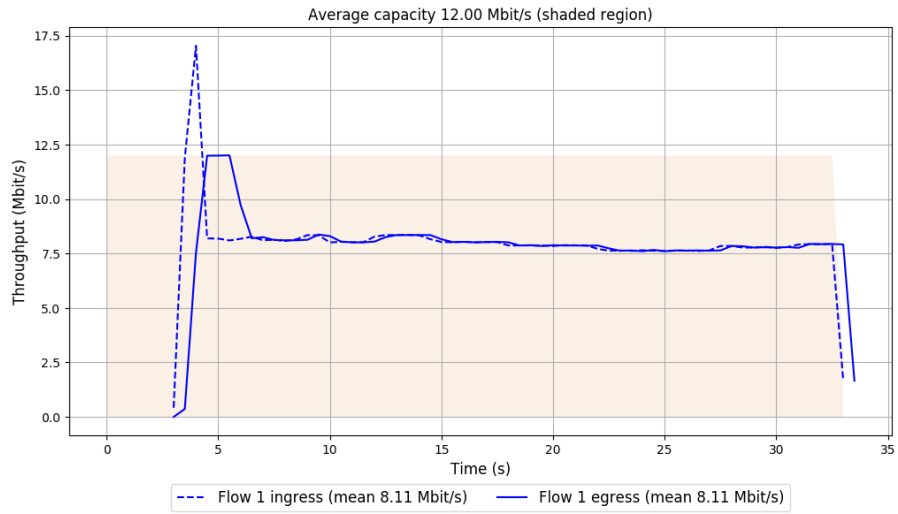
-- Flow 1:

Average throughput: 8.11 Mbit/s

95th percentile per-packet one-way delay: 210.801 ms

Loss rate: 0.04%

Run 3: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2020-04-16 09:05:55

End at: 2020-04-16 09:06:25

Below is generated by plot.py at 2020-04-16 09:45:56

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 5.58 Mbit/s (46.5% utilization)

95th percentile per-packet one-way delay: 12.967 ms

Loss rate: 0.04%

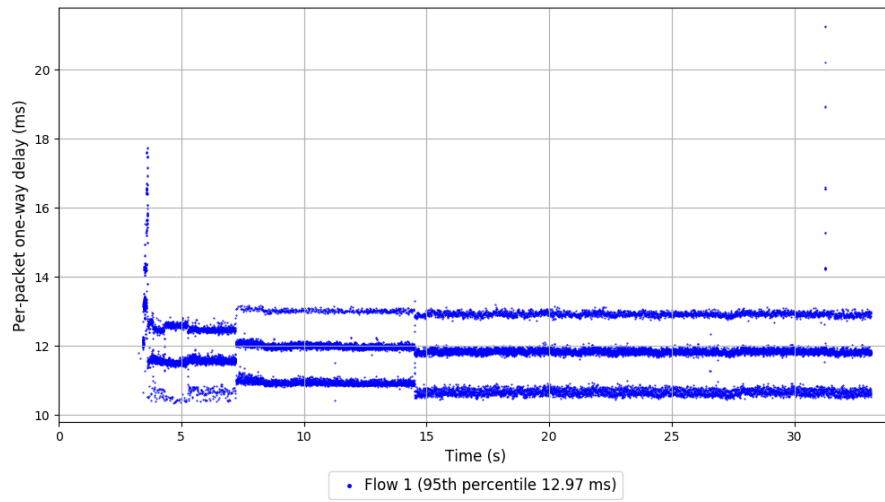
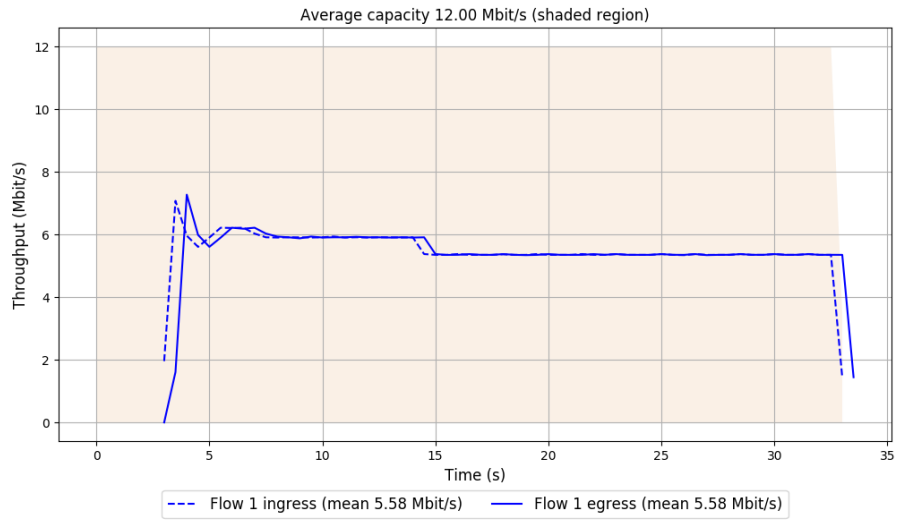
-- Flow 1:

Average throughput: 5.58 Mbit/s

95th percentile per-packet one-way delay: 12.967 ms

Loss rate: 0.04%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2020-04-16 09:19:50

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

Below is generated by plot.py at 2020-04-16 09:45:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 5.55 Mbit/s (46.3% utilization)

95th percentile per-packet one-way delay: 12.956 ms

Loss rate: 0.03%

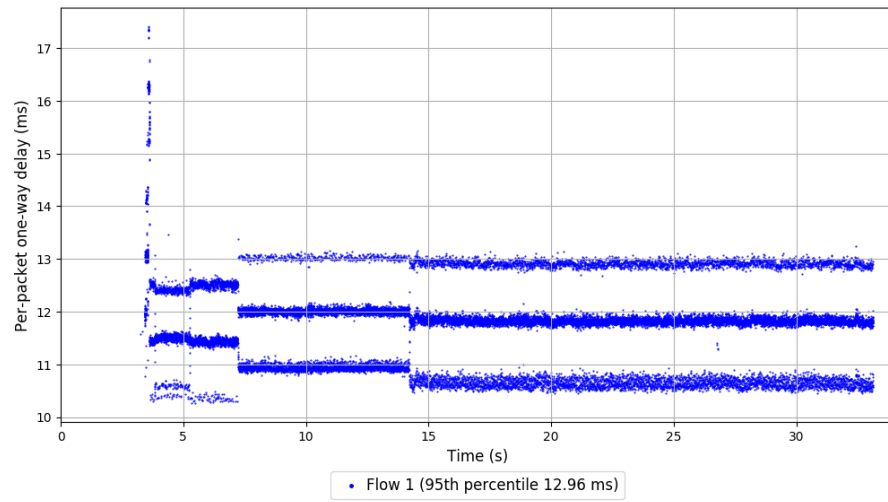
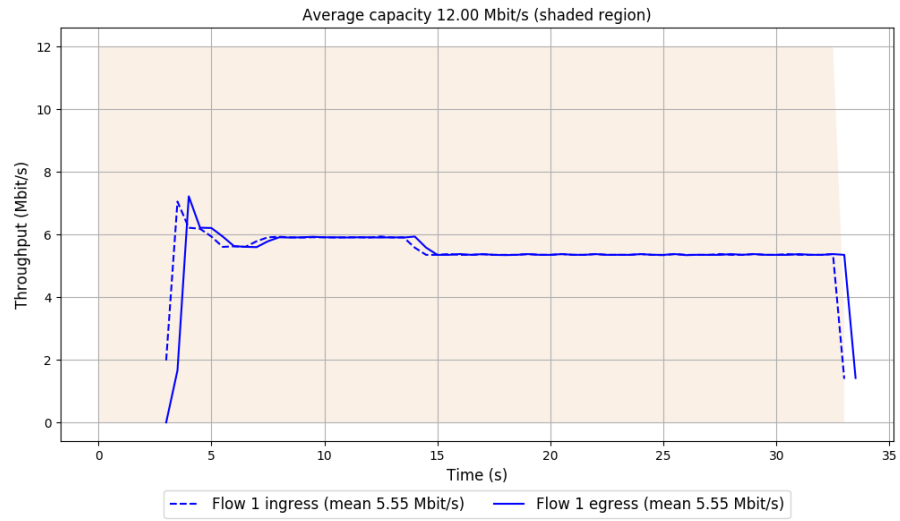
-- Flow 1:

Average throughput: 5.55 Mbit/s

95th percentile per-packet one-way delay: 12.956 ms

Loss rate: 0.03%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2020-04-16 09:33:46

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

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: 5.89 Mbit/s (49.1% utilization)

95th percentile per-packet one-way delay: 12.552 ms

Loss rate: 0.04%

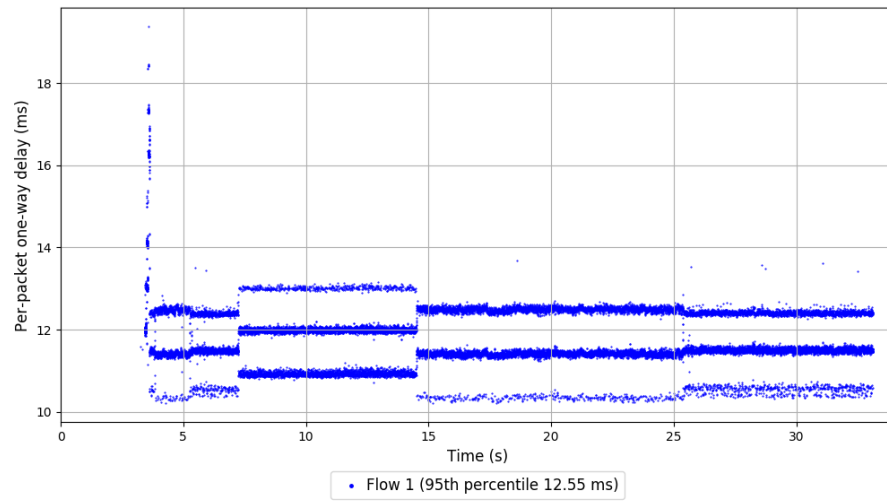
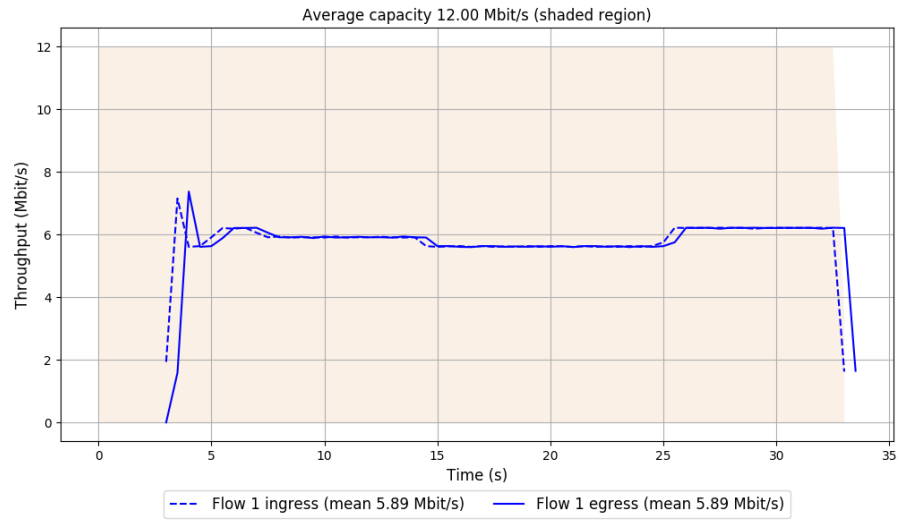
-- Flow 1:

Average throughput: 5.89 Mbit/s

95th percentile per-packet one-way delay: 12.552 ms

Loss rate: 0.04%

Run 3: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2020-04-16 09:14:02

End at: 2020-04-16 09:14:32

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: 3.14 Mbit/s (26.2% utilization)

95th percentile per-packet one-way delay: 12.183 ms

Loss rate: 0.05%

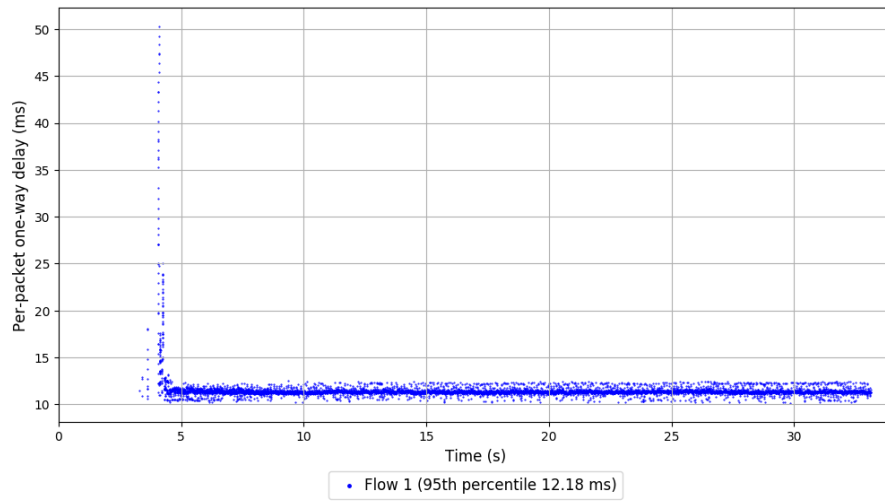
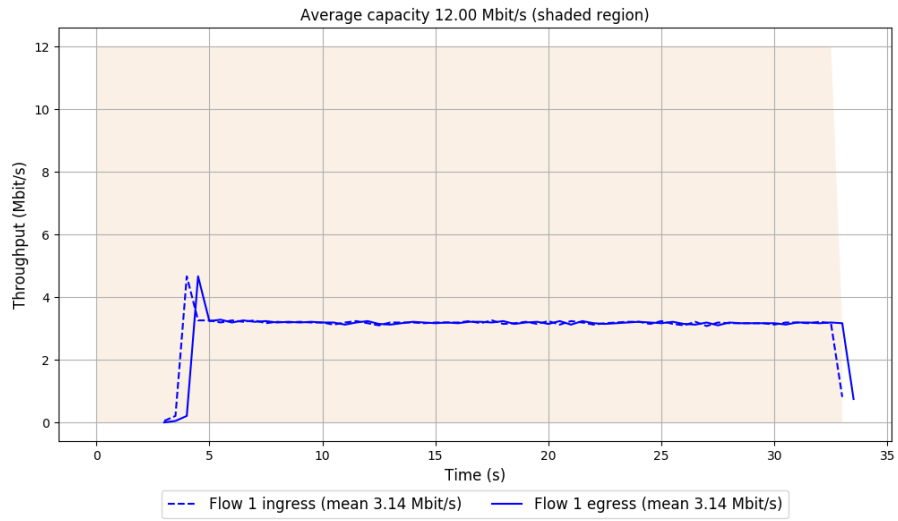
-- Flow 1:

Average throughput: 3.14 Mbit/s

95th percentile per-packet one-way delay: 12.183 ms

Loss rate: 0.05%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2020-04-16 09:27:58

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

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: 3.14 Mbit/s (26.2% utilization)

95th percentile per-packet one-way delay: 12.136 ms

Loss rate: 0.05%

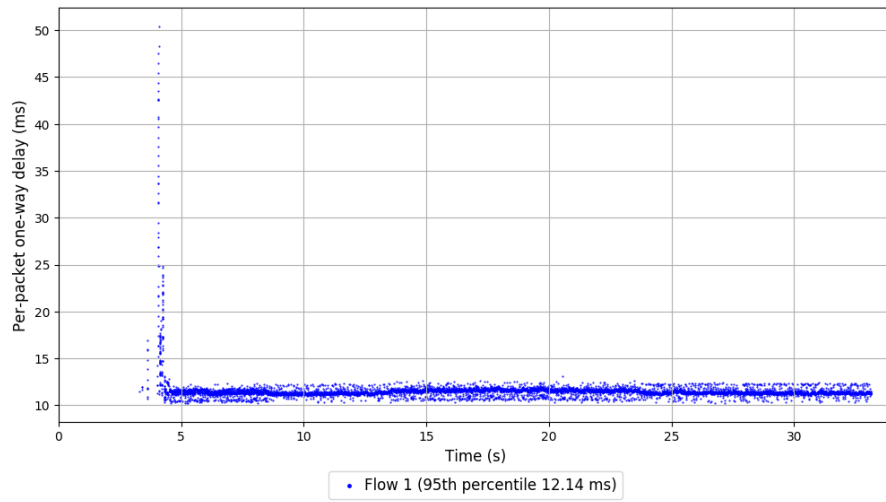
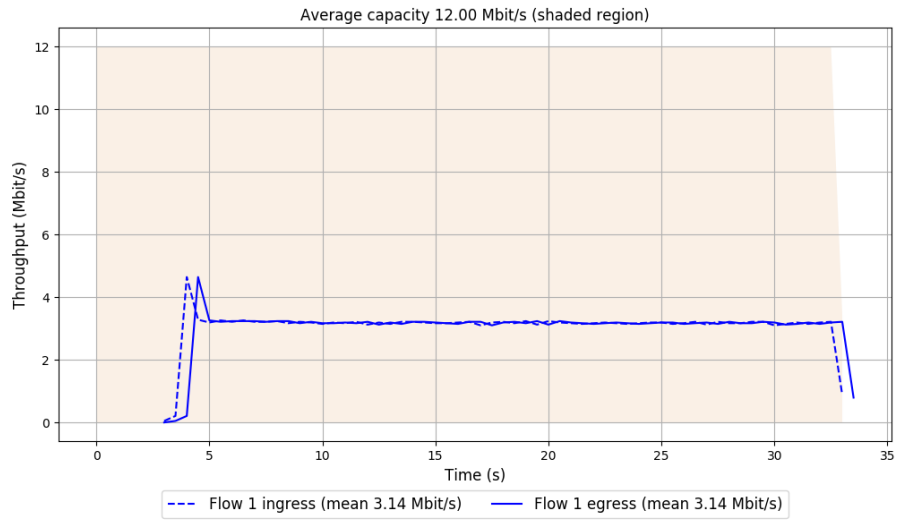
-- Flow 1:

Average throughput: 3.14 Mbit/s

95th percentile per-packet one-way delay: 12.136 ms

Loss rate: 0.05%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2020-04-16 09:41:53

End at: 2020-04-16 09:42:23

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: 3.14 Mbit/s (26.1% utilization)

95th percentile per-packet one-way delay: 12.181 ms

Loss rate: 0.05%

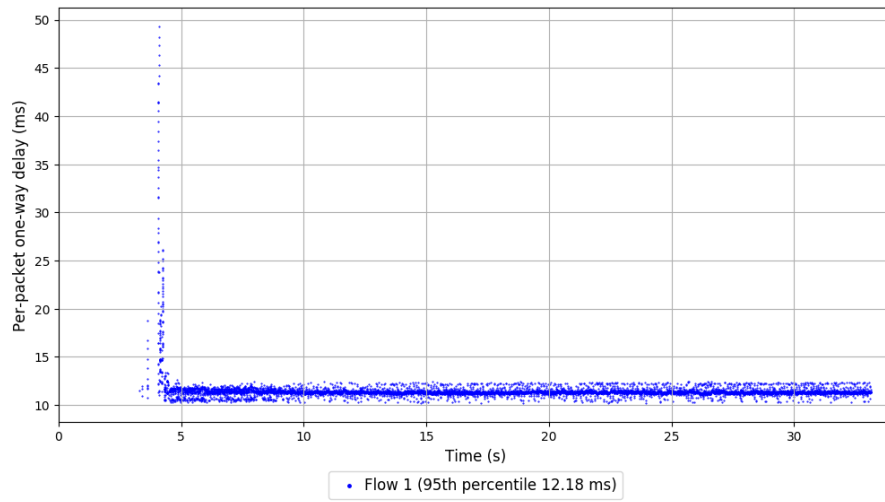
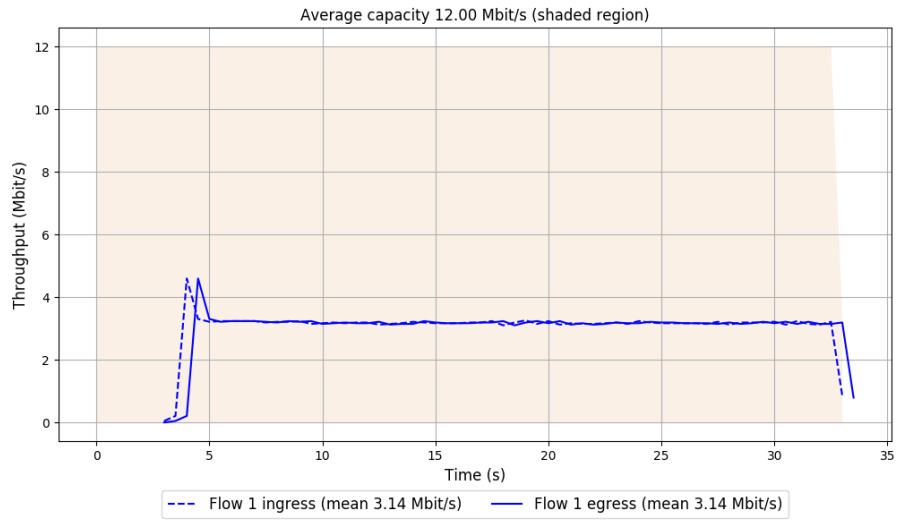
-- Flow 1:

Average throughput: 3.14 Mbit/s

95th percentile per-packet one-way delay: 12.181 ms

Loss rate: 0.05%

Run 3: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

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

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

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: 0.22 Mbit/s (1.8% utilization)

95th percentile per-packet one-way delay: 11.626 ms

Loss rate: 0.13%

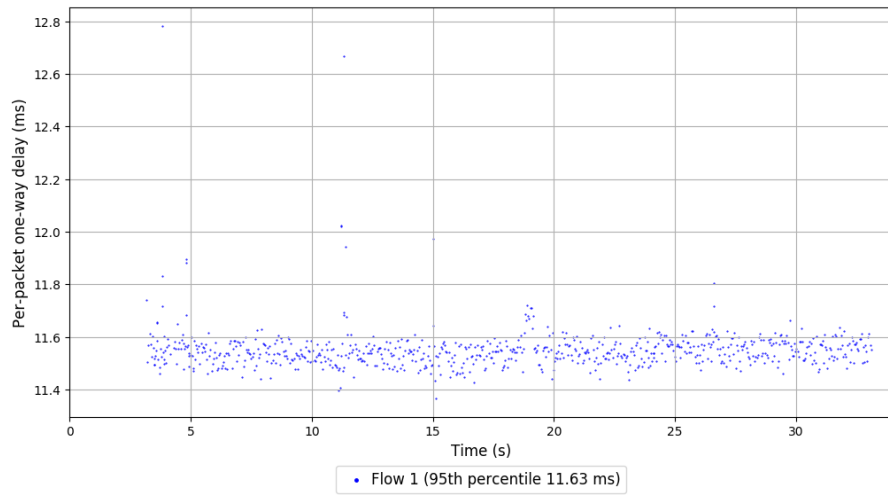
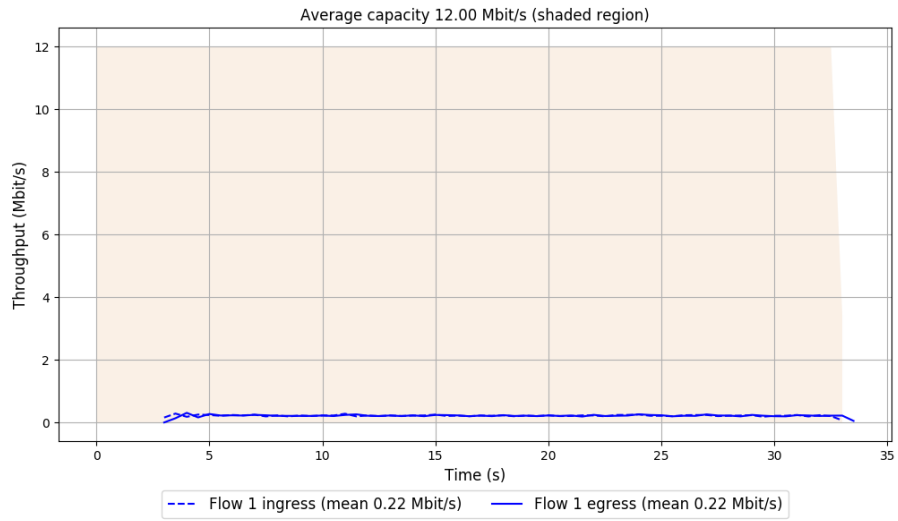
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 11.626 ms

Loss rate: 0.13%

Run 1: Report of SCReAM — Data Link



Run 2: Statistics of SCReAM

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

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

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: 0.22 Mbit/s (1.8% utilization)

95th percentile per-packet one-way delay: 11.629 ms

Loss rate: 0.13%

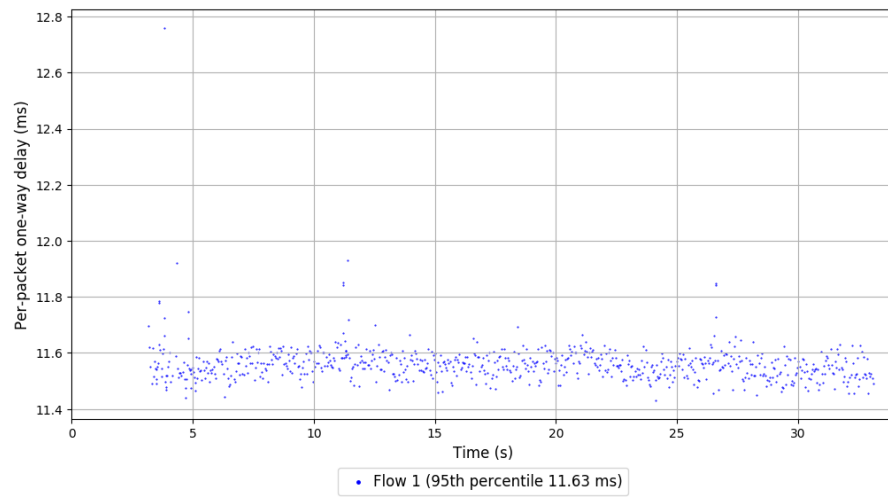
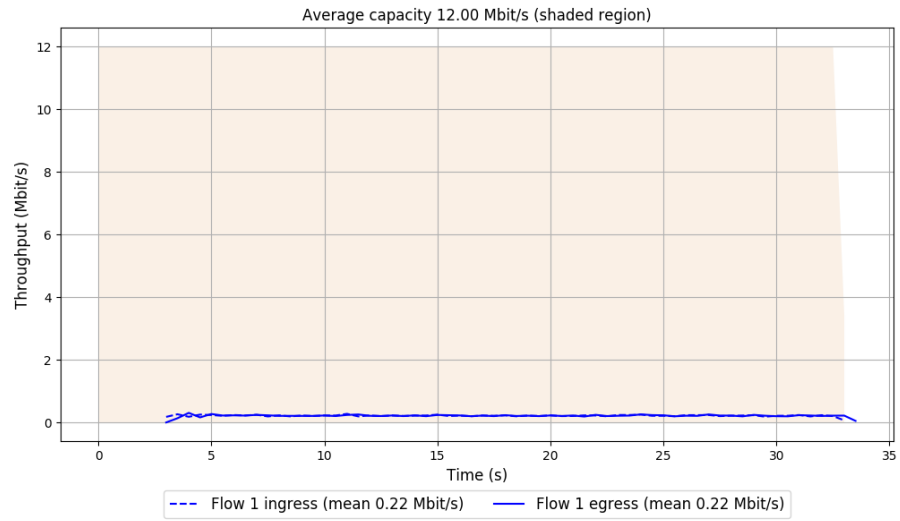
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 11.629 ms

Loss rate: 0.13%

Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2020-04-16 09:30:17

End at: 2020-04-16 09:30:47

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: 0.22 Mbit/s (1.8% utilization)

95th percentile per-packet one-way delay: 11.593 ms

Loss rate: 0.00%

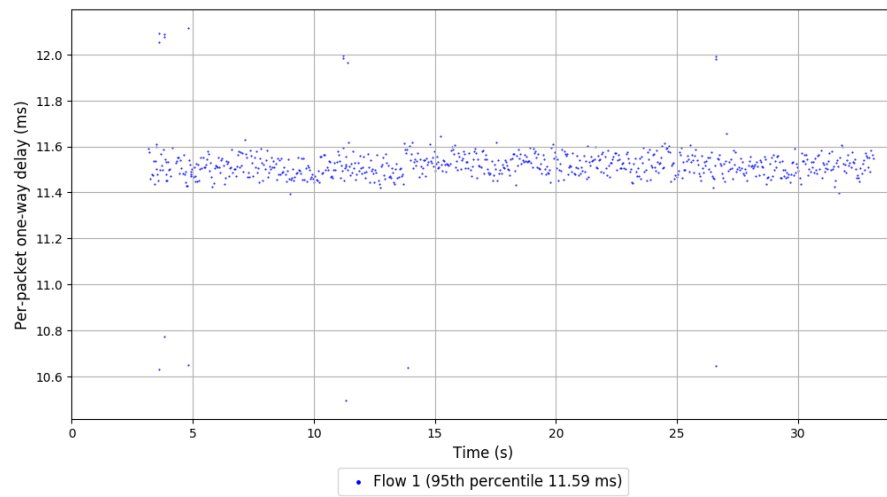
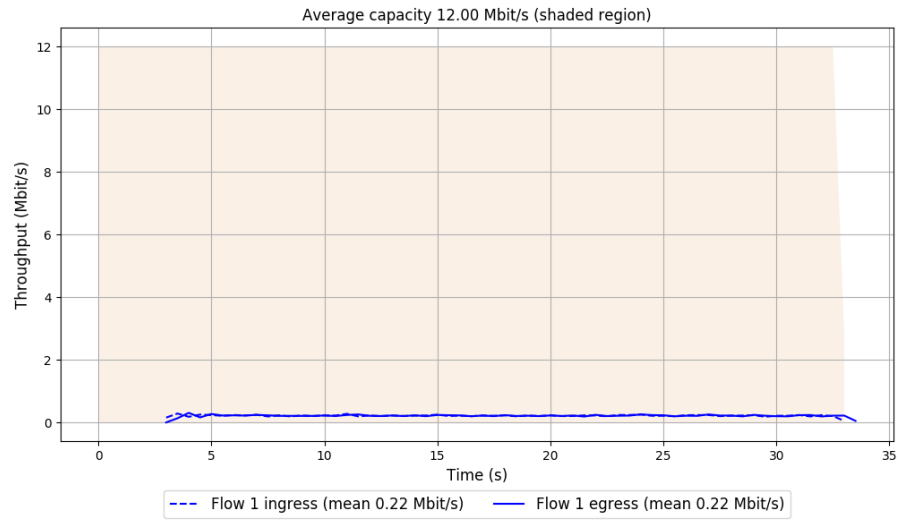
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 11.593 ms

Loss rate: 0.00%

Run 3: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2020-04-16 09:13:28

End at: 2020-04-16 09:13:58

Below is generated by plot.py at 2020-04-16 09:46:05

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.45 Mbit/s (12.1% utilization)

95th percentile per-packet one-way delay: 21.525 ms

Loss rate: 0.00%

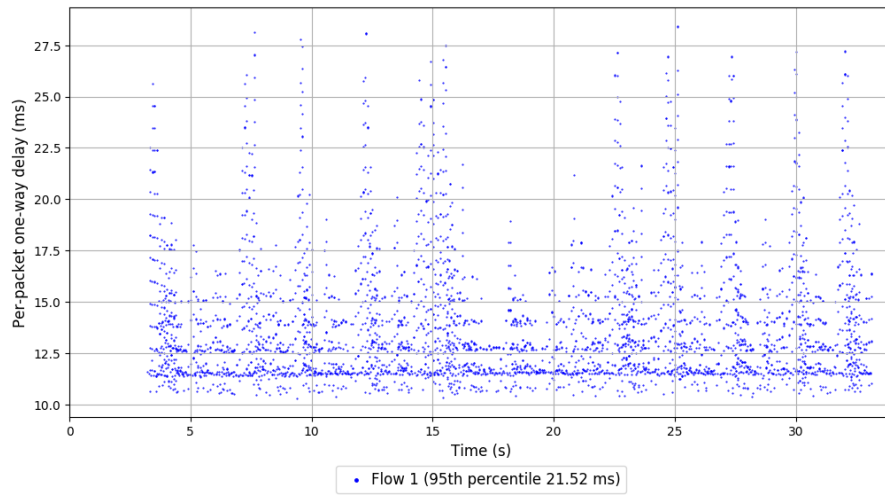
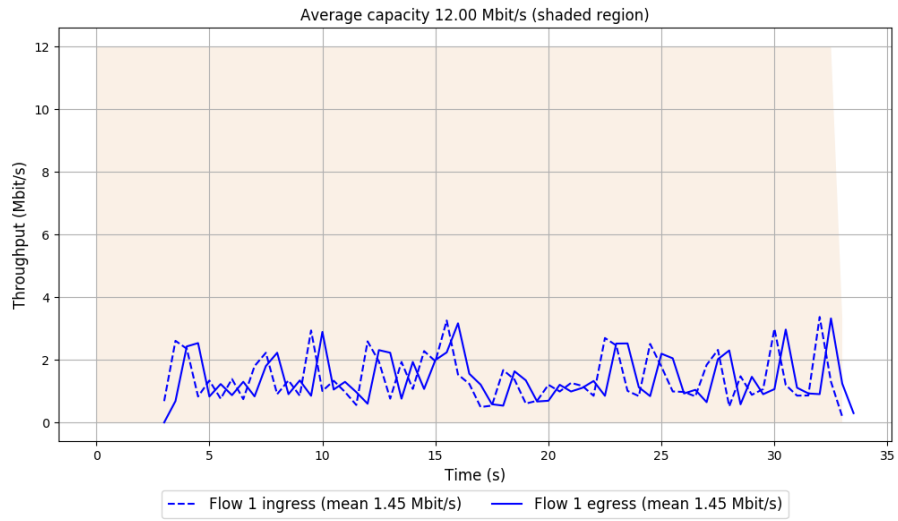
-- Flow 1:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 21.525 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2020-04-16 09:27:23

End at: 2020-04-16 09:27:53

Below is generated by plot.py at 2020-04-16 09:46:08

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.81 Mbit/s (15.1% utilization)

95th percentile per-packet one-way delay: 22.209 ms

Loss rate: 0.09%

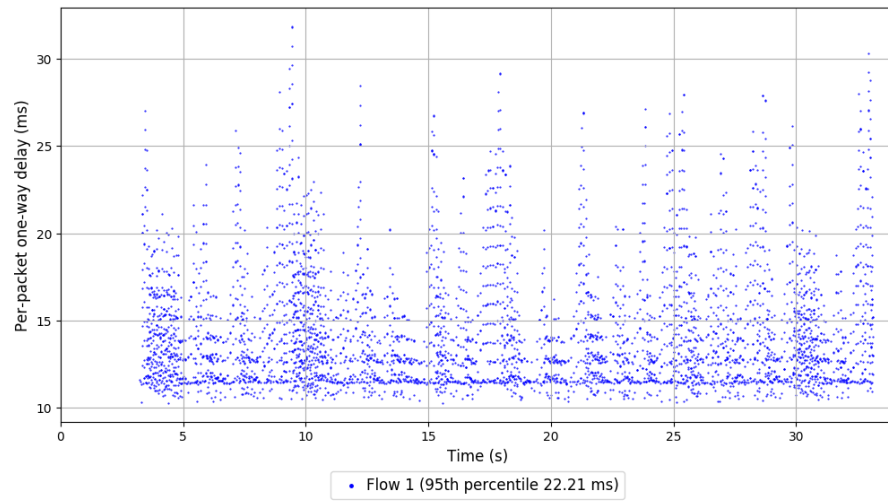
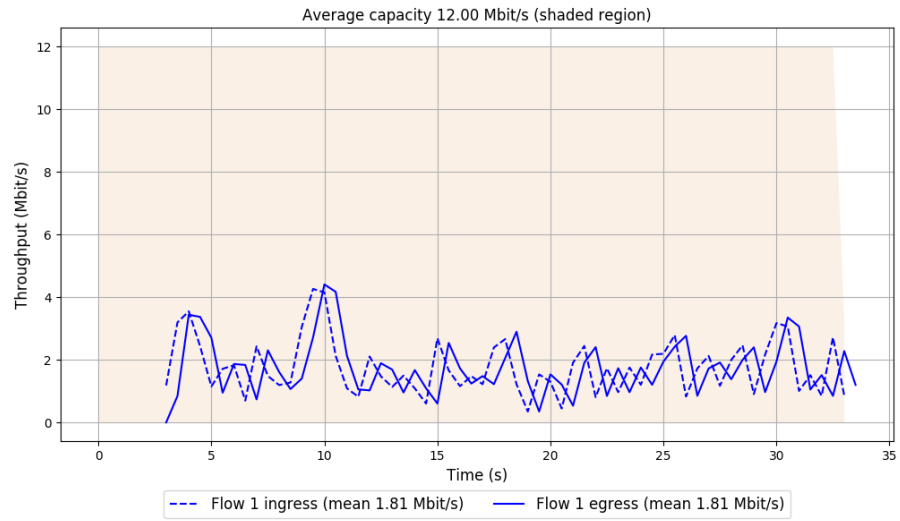
-- Flow 1:

Average throughput: 1.81 Mbit/s

95th percentile per-packet one-way delay: 22.209 ms

Loss rate: 0.09%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2020-04-16 09:41:18

End at: 2020-04-16 09:41:48

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

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.28 Mbit/s (10.6% utilization)

95th percentile per-packet one-way delay: 21.385 ms

Loss rate: 0.05%

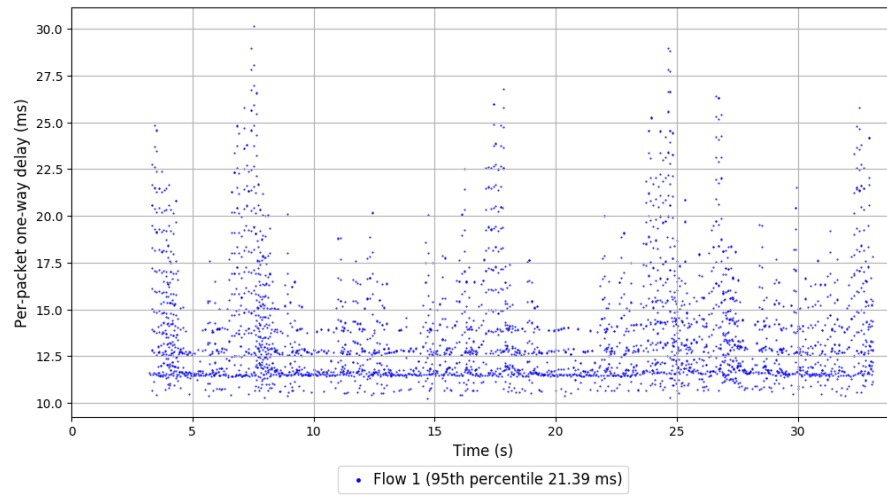
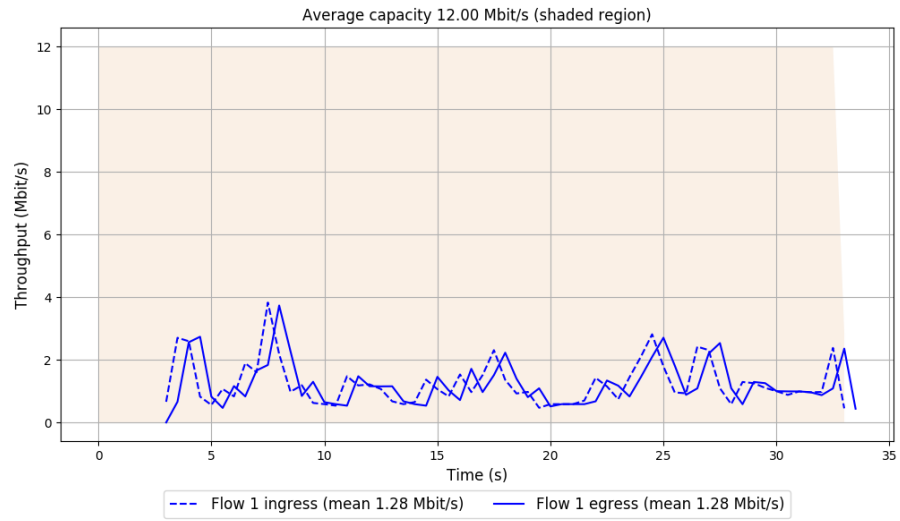
-- Flow 1:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 21.385 ms

Loss rate: 0.05%

Run 3: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2020-04-16 09:14:37

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

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: 1.88 Mbit/s (15.6% utilization)

95th percentile per-packet one-way delay: 13.064 ms

Loss rate: 0.09%

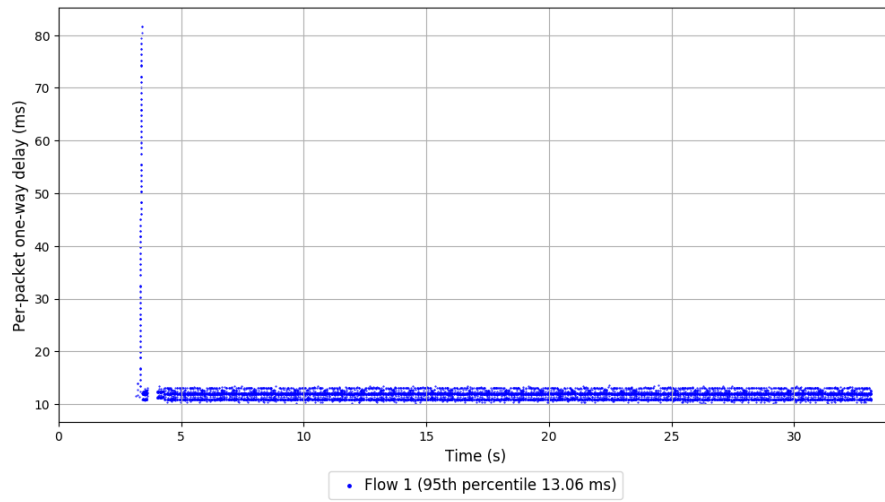
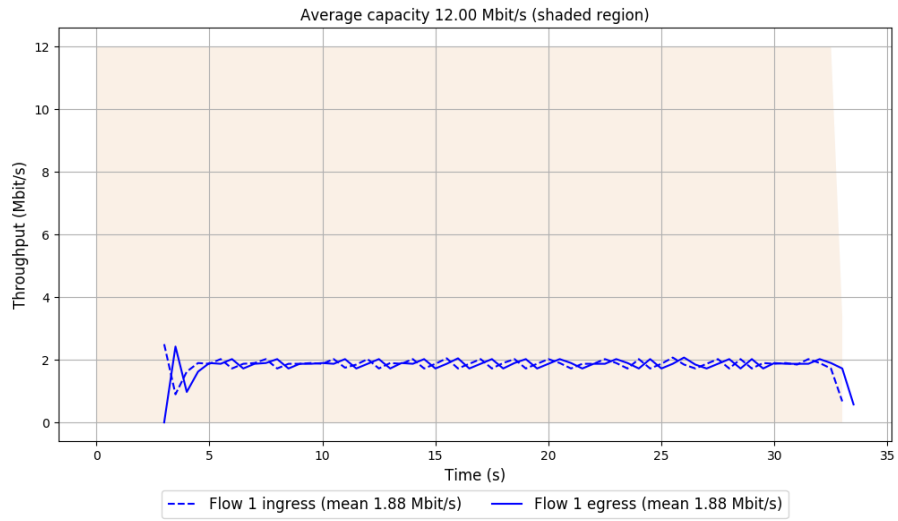
-- Flow 1:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 13.064 ms

Loss rate: 0.09%

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



Run 2: Statistics of TaoVA-100x

Start at: 2020-04-16 09:28:33

End at: 2020-04-16 09:29:03

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

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.88 Mbit/s (15.6% utilization)

95th percentile per-packet one-way delay: 13.059 ms

Loss rate: 0.05%

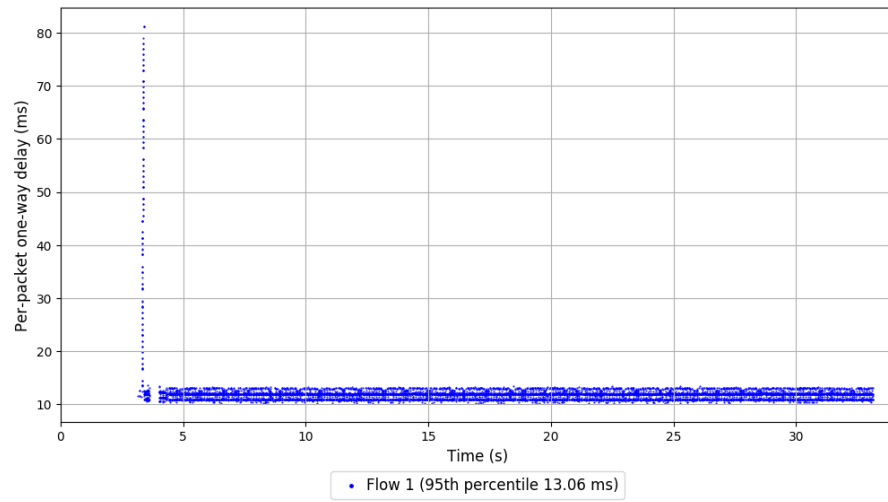
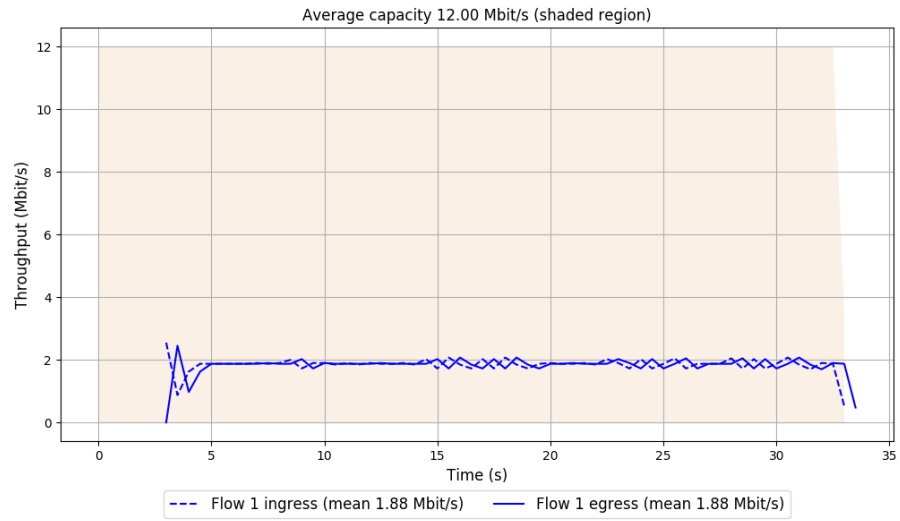
-- Flow 1:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 13.059 ms

Loss rate: 0.05%

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



Run 3: Statistics of TaoVA-100x

Start at: 2020-04-16 09:42:28

End at: 2020-04-16 09:42:58

Below is generated by plot.py at 2020-04-16 09:46:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.88 Mbit/s (15.6% utilization)

95th percentile per-packet one-way delay: 28.876 ms

Loss rate: 0.02%

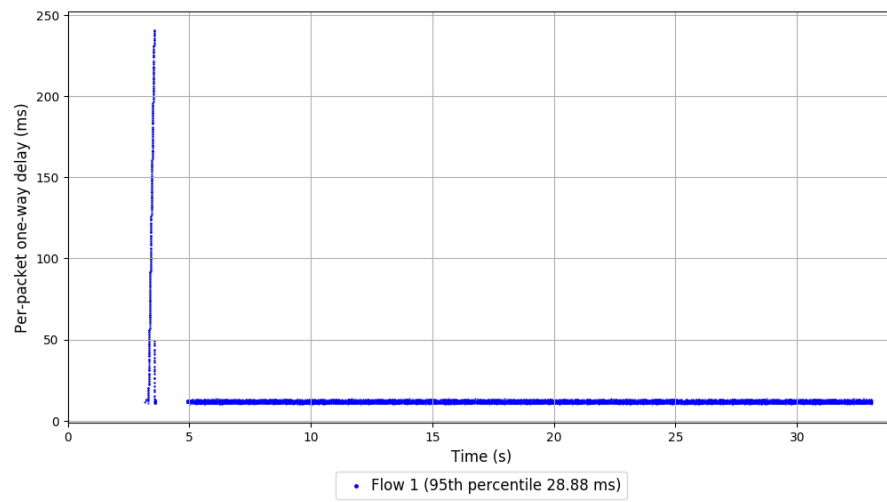
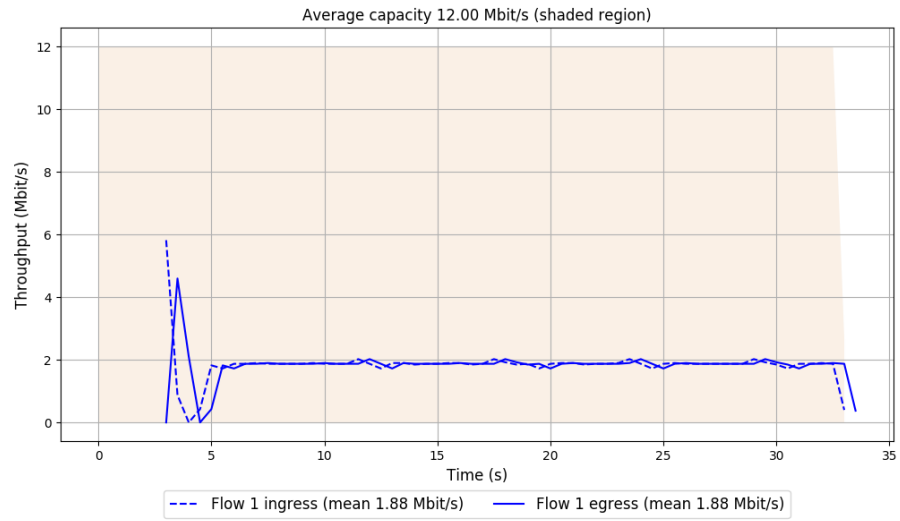
-- Flow 1:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 28.876 ms

Loss rate: 0.02%

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



Run 1: Statistics of TCP Vegas

Start at: 2020-04-16 09:05:20

End at: 2020-04-16 09:05:50

Below is generated by plot.py at 2020-04-16 09:46:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.55 Mbit/s (12.9% utilization)

95th percentile per-packet one-way delay: 12.887 ms

Loss rate: 0.05%

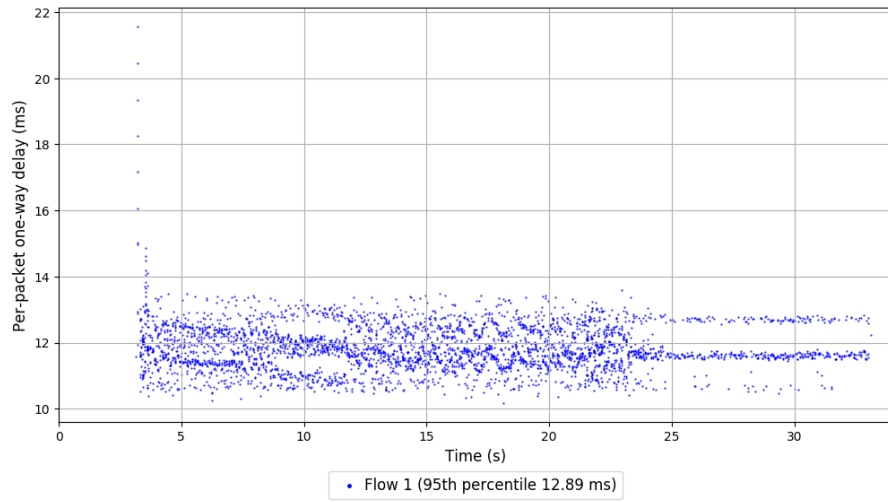
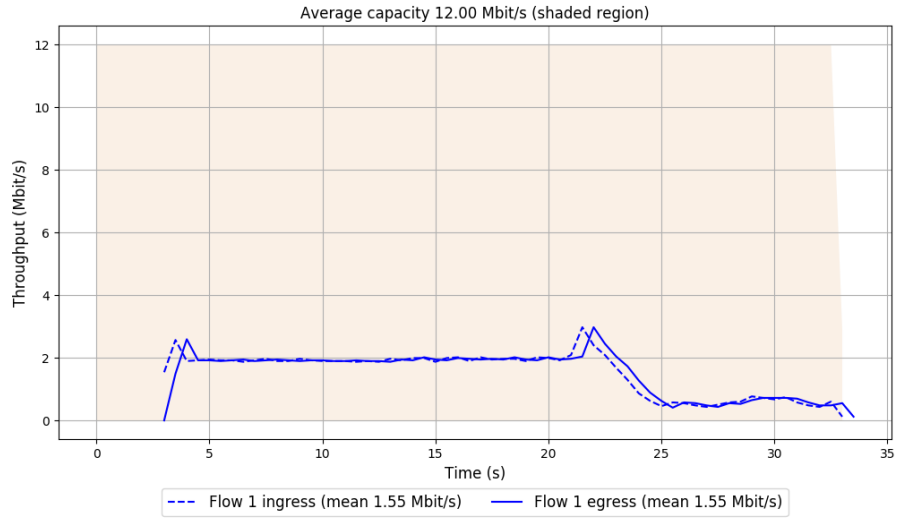
-- Flow 1:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 12.887 ms

Loss rate: 0.05%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

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

End at: 2020-04-16 09:19:46

Below is generated by plot.py at 2020-04-16 09:46:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.54 Mbit/s (12.8% utilization)

95th percentile per-packet one-way delay: 12.969 ms

Loss rate: 0.00%

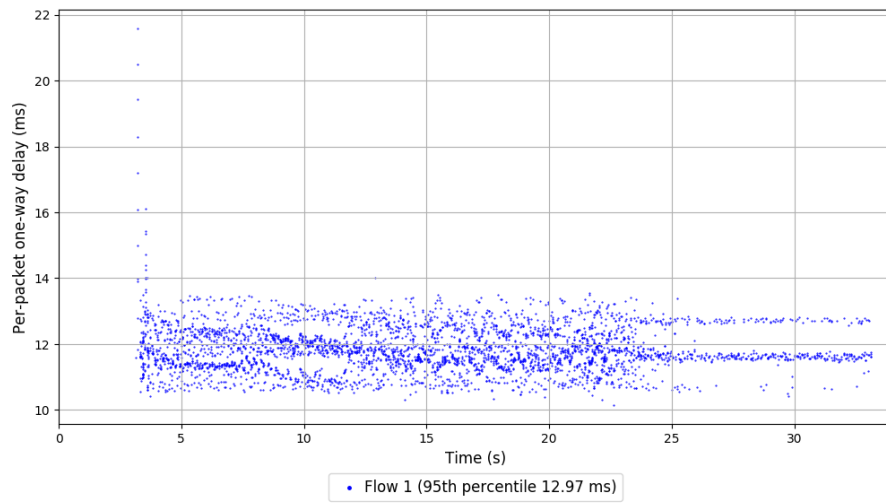
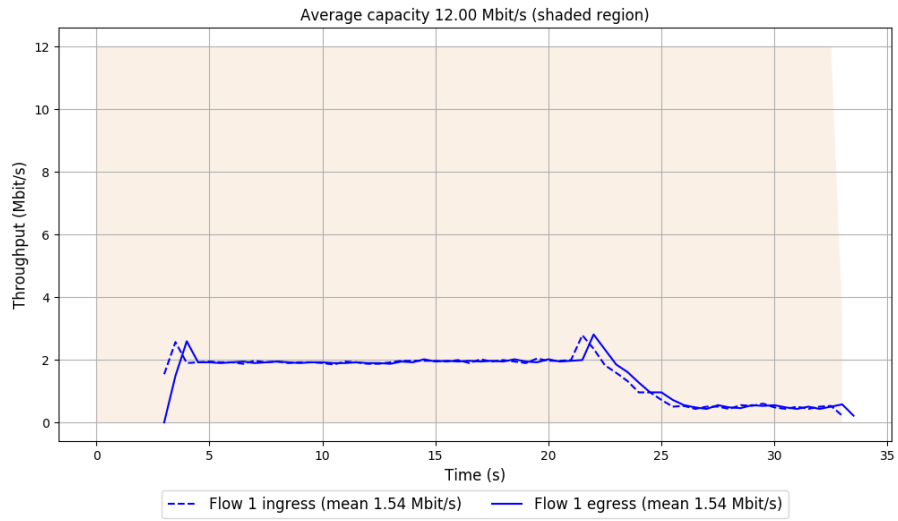
-- Flow 1:

Average throughput: 1.54 Mbit/s

95th percentile per-packet one-way delay: 12.969 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2020-04-16 09:33:11

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

Below is generated by plot.py at 2020-04-16 09:46:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.57 Mbit/s (13.1% utilization)

95th percentile per-packet one-way delay: 13.020 ms

Loss rate: 0.00%

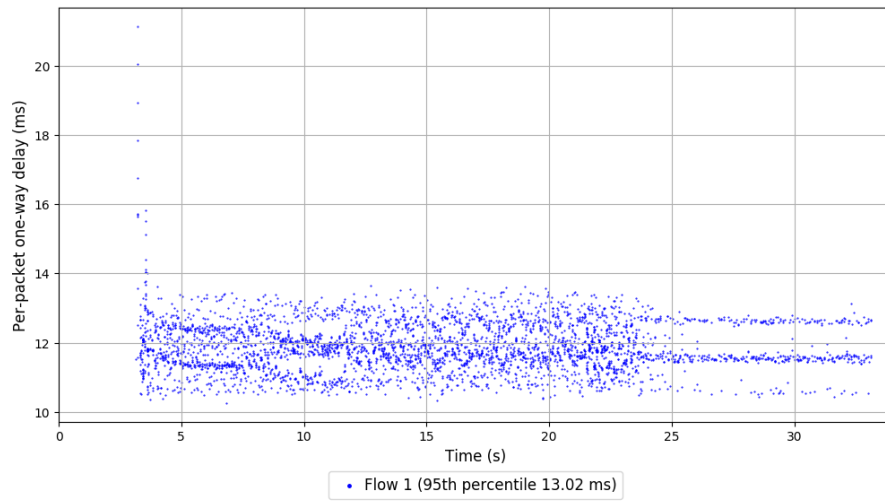
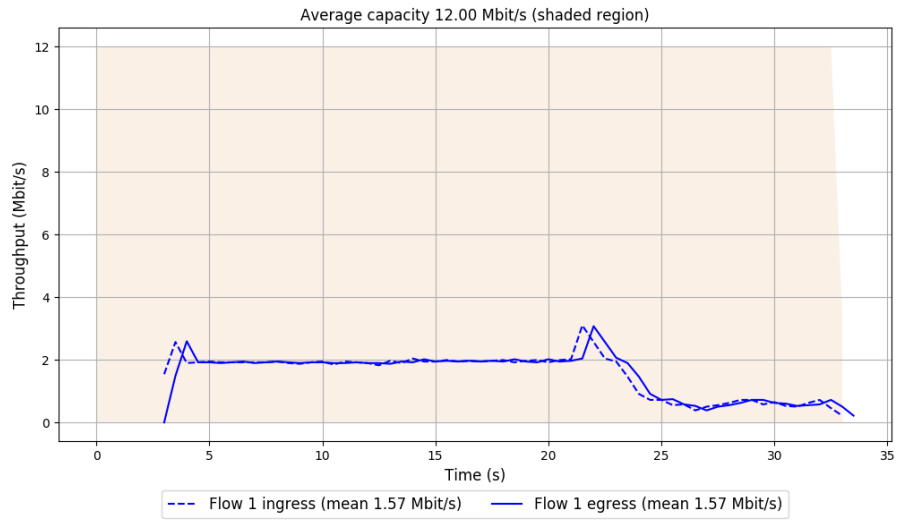
-- Flow 1:

Average throughput: 1.57 Mbit/s

95th percentile per-packet one-way delay: 13.020 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2020-04-16 09:06:30

End at: 2020-04-16 09:07:00

Below is generated by plot.py at 2020-04-16 09:46:21

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.72 Mbit/s (14.3% utilization)

95th percentile per-packet one-way delay: 24.141 ms

Loss rate: 0.34%

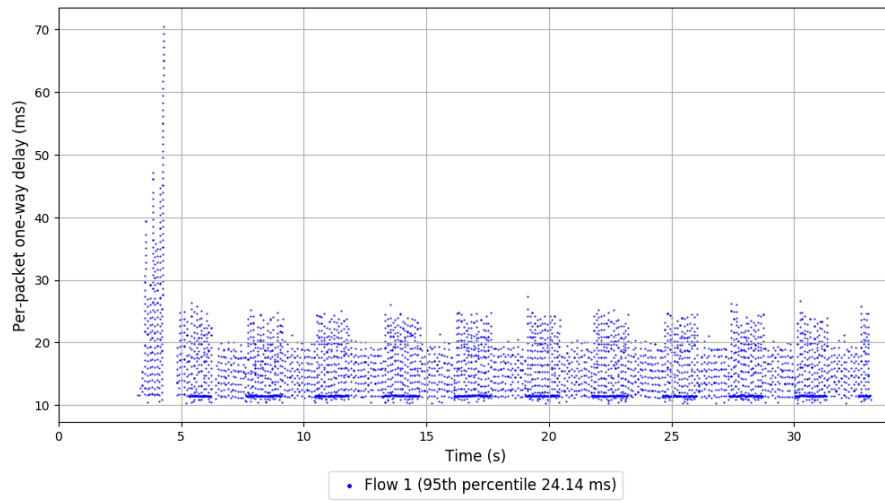
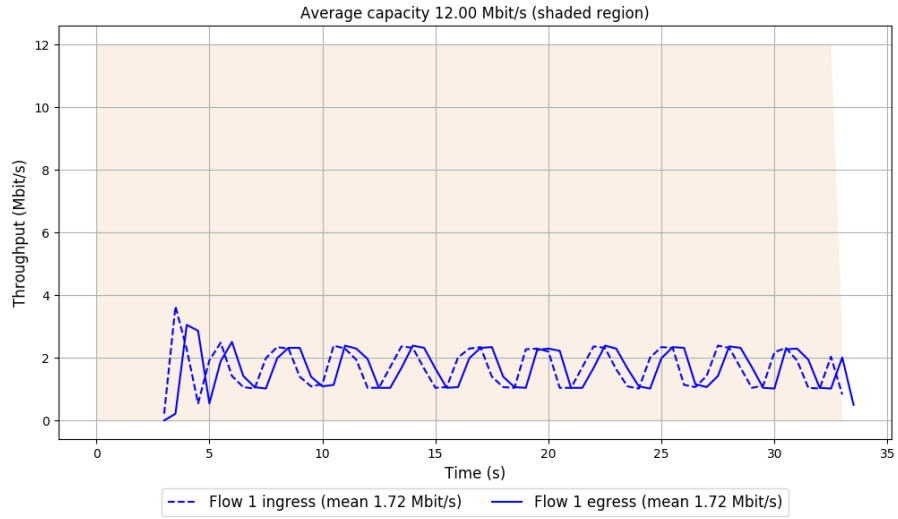
-- Flow 1:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 24.141 ms

Loss rate: 0.34%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2020-04-16 09:20:25

End at: 2020-04-16 09:20:55

Below is generated by plot.py at 2020-04-16 09:46:21

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.72 Mbit/s (14.4% utilization)

95th percentile per-packet one-way delay: 23.806 ms

Loss rate: 0.02%

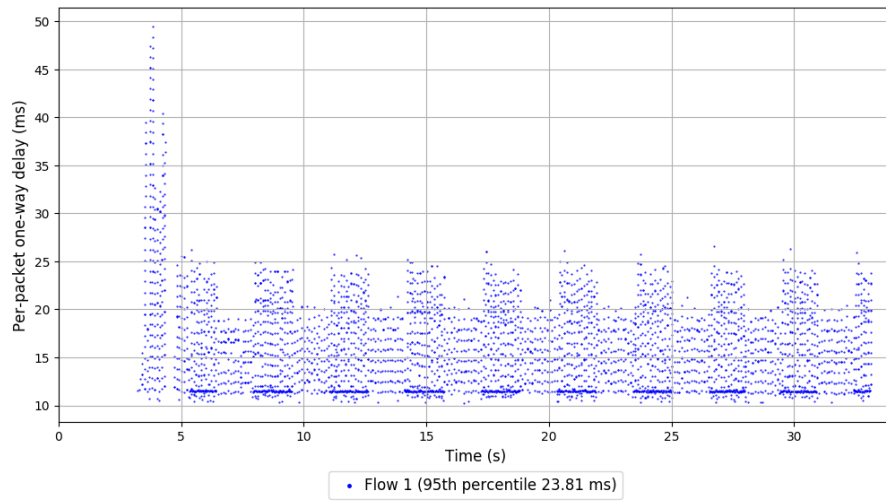
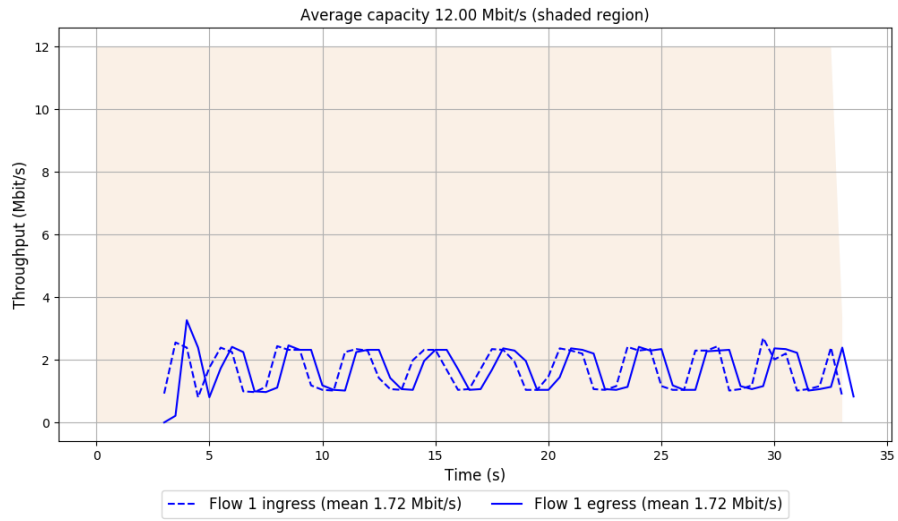
-- Flow 1:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 23.806 ms

Loss rate: 0.02%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2020-04-16 09:34:21

End at: 2020-04-16 09:34:51

Below is generated by plot.py at 2020-04-16 09:46:25

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.71 Mbit/s (14.3% utilization)

95th percentile per-packet one-way delay: 23.866 ms

Loss rate: 0.00%

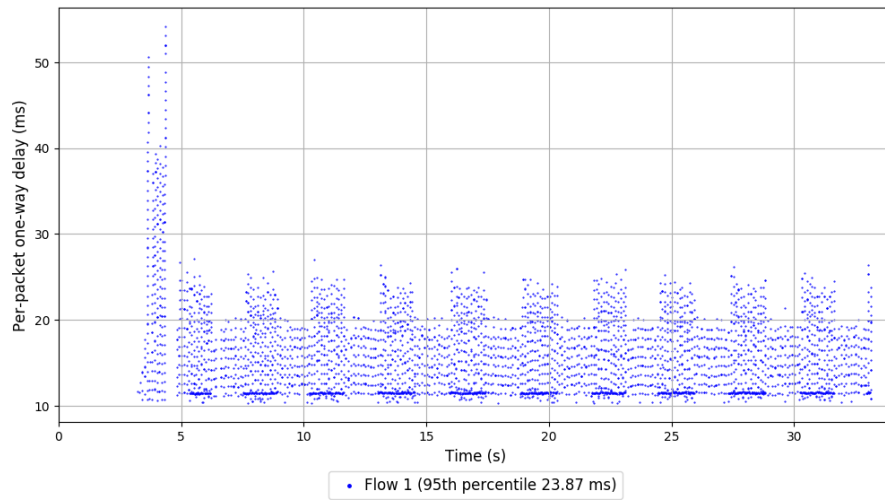
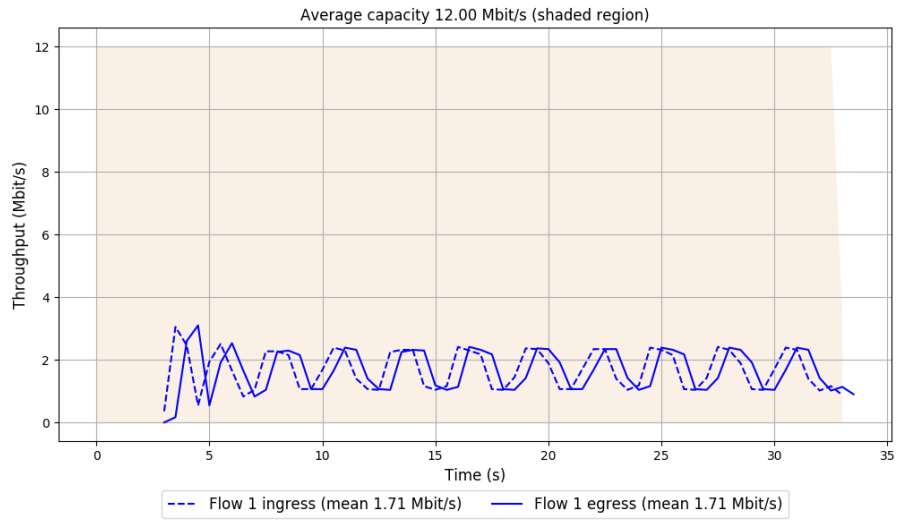
-- Flow 1:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 23.866 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2020-04-16 09:12:18

End at: 2020-04-16 09:12:48

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: 1.42 Mbit/s (11.8% utilization)

95th percentile per-packet one-way delay: 12.260 ms

Loss rate: 0.03%

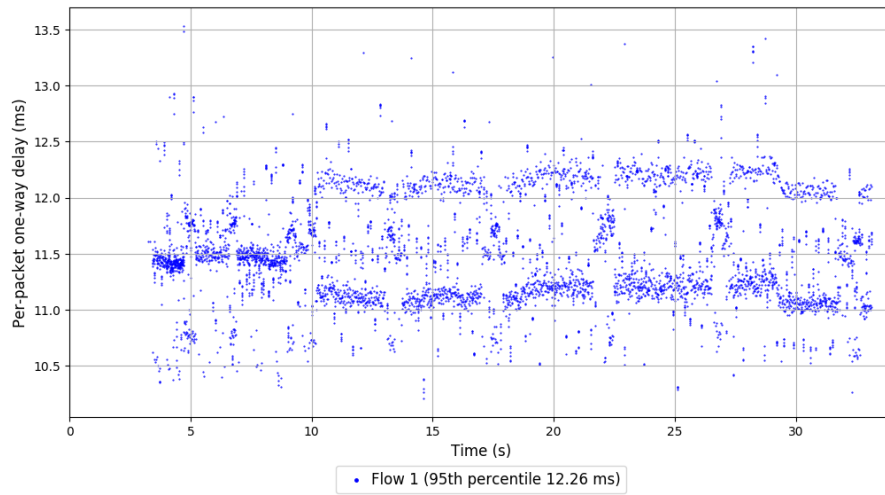
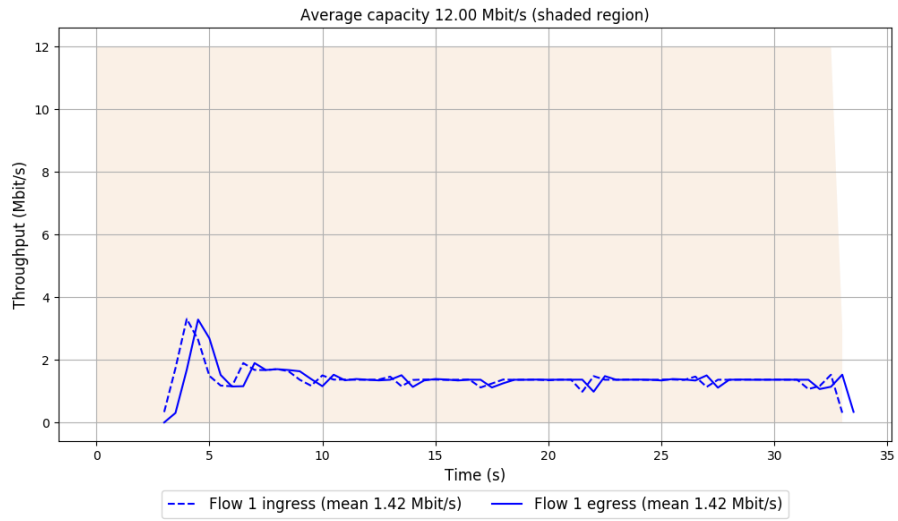
-- Flow 1:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 12.260 ms

Loss rate: 0.03%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2020-04-16 09:26:13

End at: 2020-04-16 09:26:43

Below is generated by plot.py at 2020-04-16 09:46:28

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.42 Mbit/s (11.8% utilization)

95th percentile per-packet one-way delay: 12.245 ms

Loss rate: 0.03%

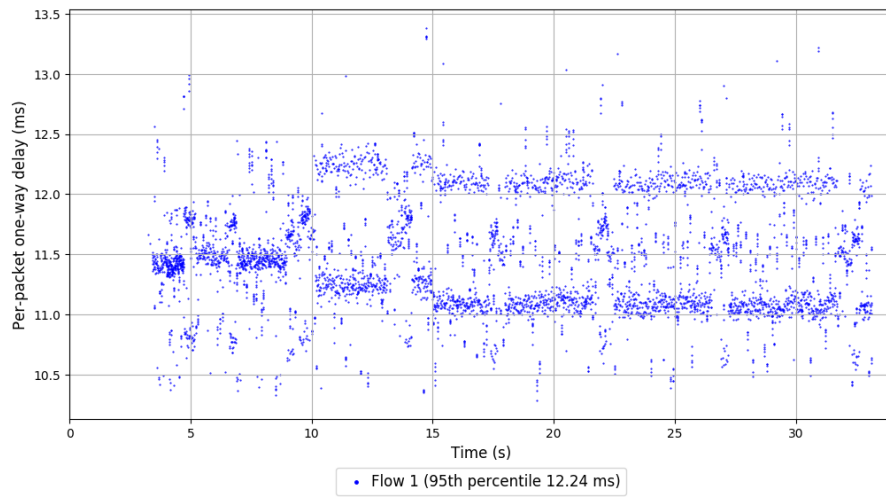
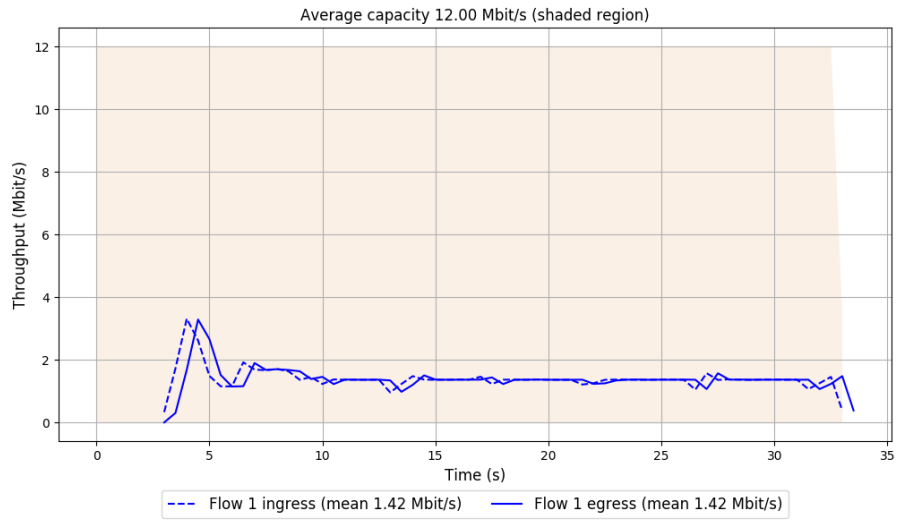
-- Flow 1:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 12.245 ms

Loss rate: 0.03%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

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

End at: 2020-04-16 09:40:39

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: 1.43 Mbit/s (11.9% utilization)

95th percentile per-packet one-way delay: 12.142 ms

Loss rate: 0.03%

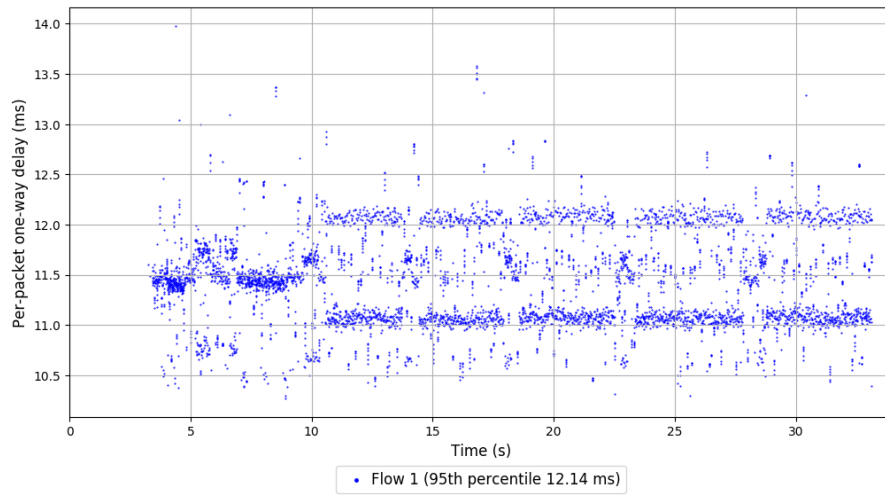
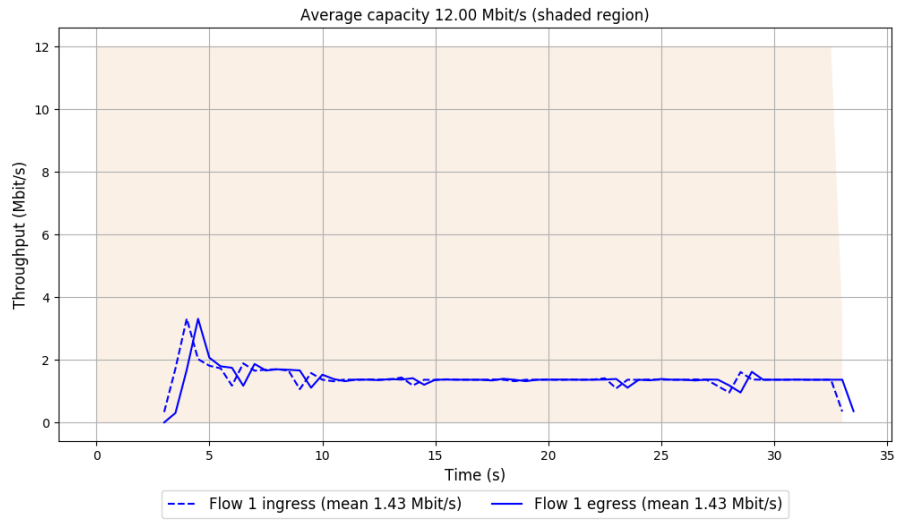
-- Flow 1:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 12.142 ms

Loss rate: 0.03%

Run 3: Report of PCC-Vivace — Data Link

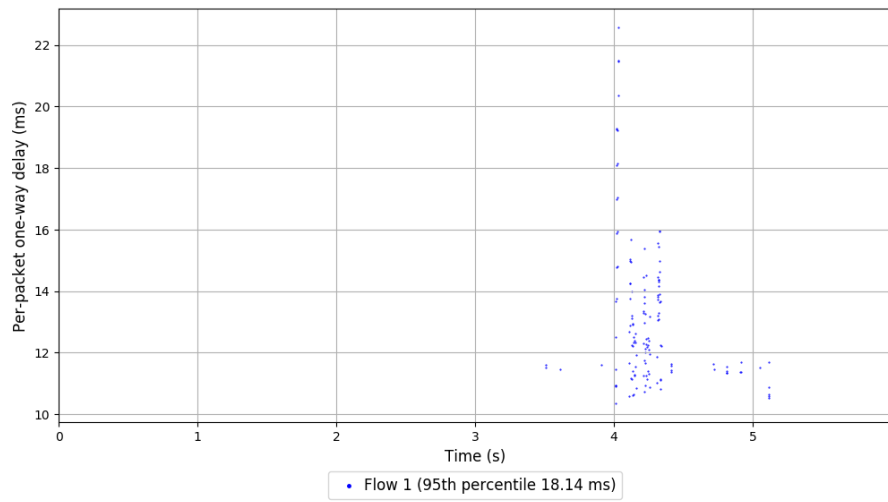
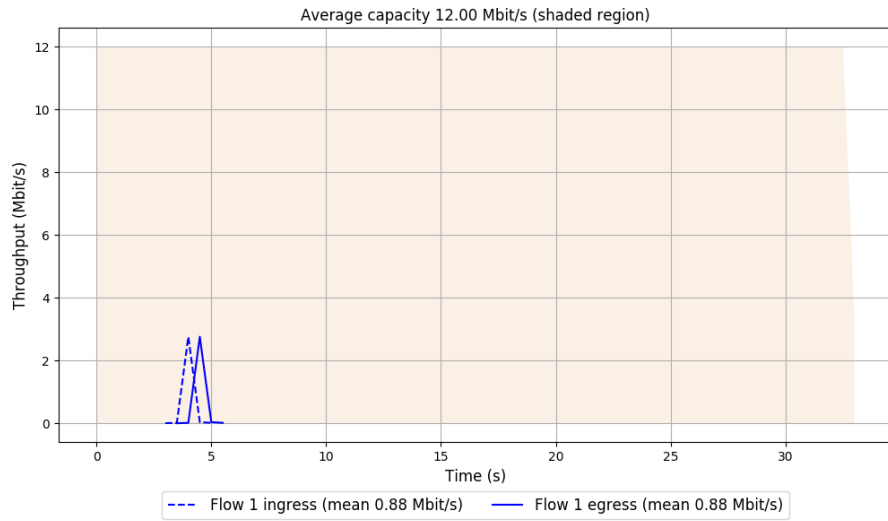


Run 1: Statistics of WebRTC media

Start at: 2020-04-16 09:08:49

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

Run 1: Report of WebRTC media — Data Link

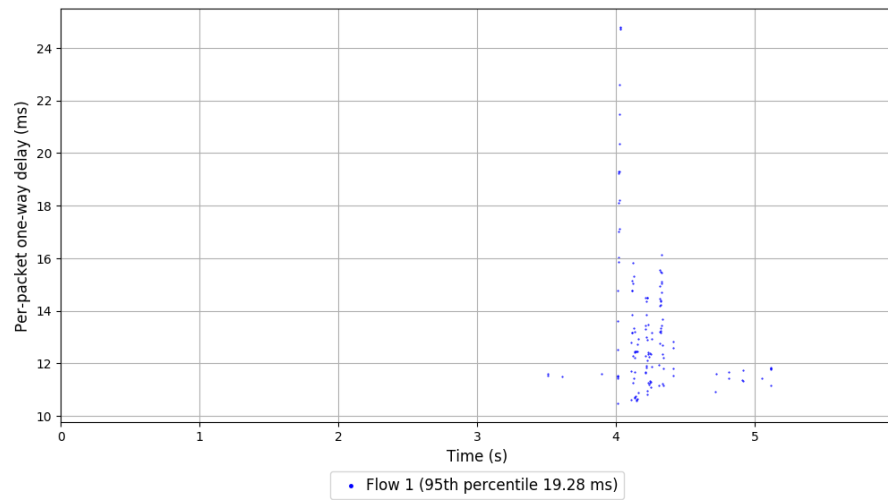
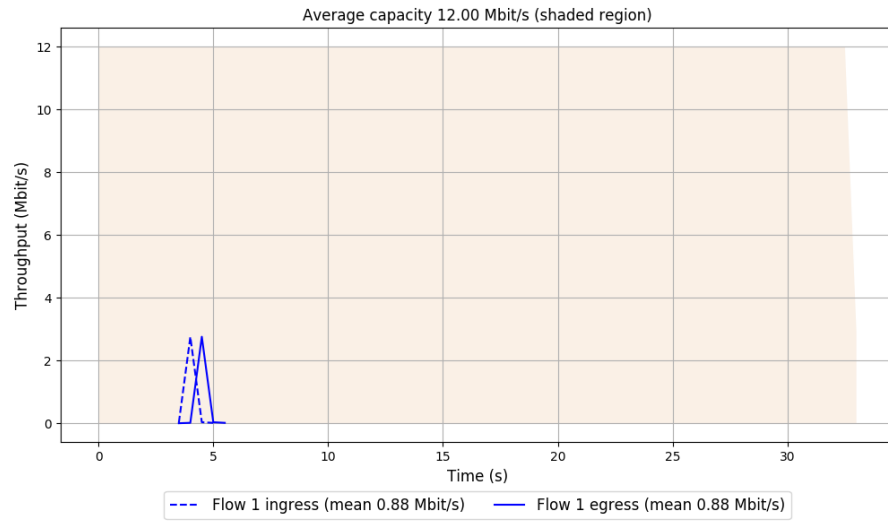


Run 2: Statistics of WebRTC media

Start at: 2020-04-16 09:22:45

End at: 2020-04-16 09:23:15

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2020-04-16 09:36:40

End at: 2020-04-16 09:37:10

Run 3: Report of WebRTC media — Data Link

