

Pantheon Report

Generated at 2019-07-11 23:56:25 (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.

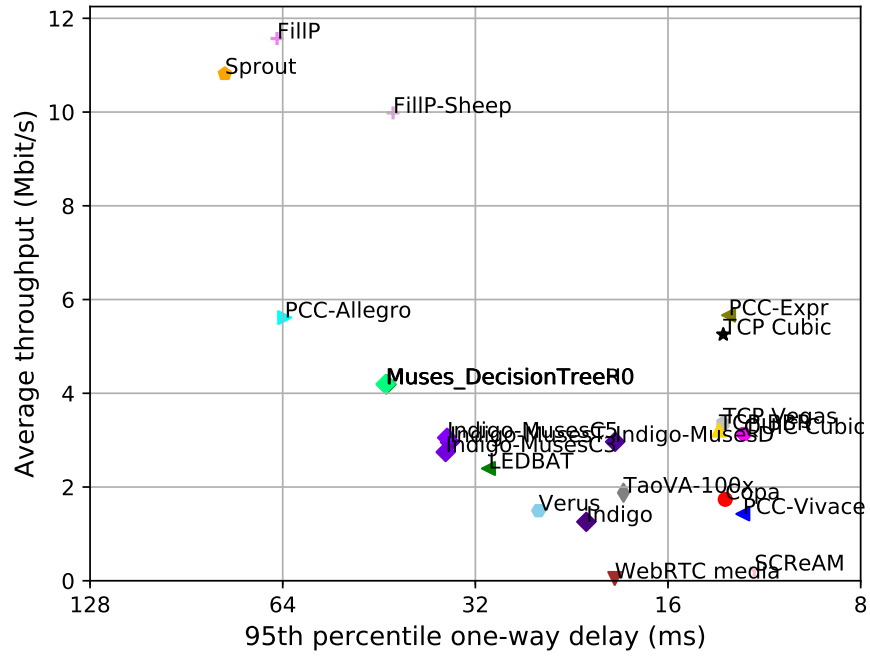
System info:

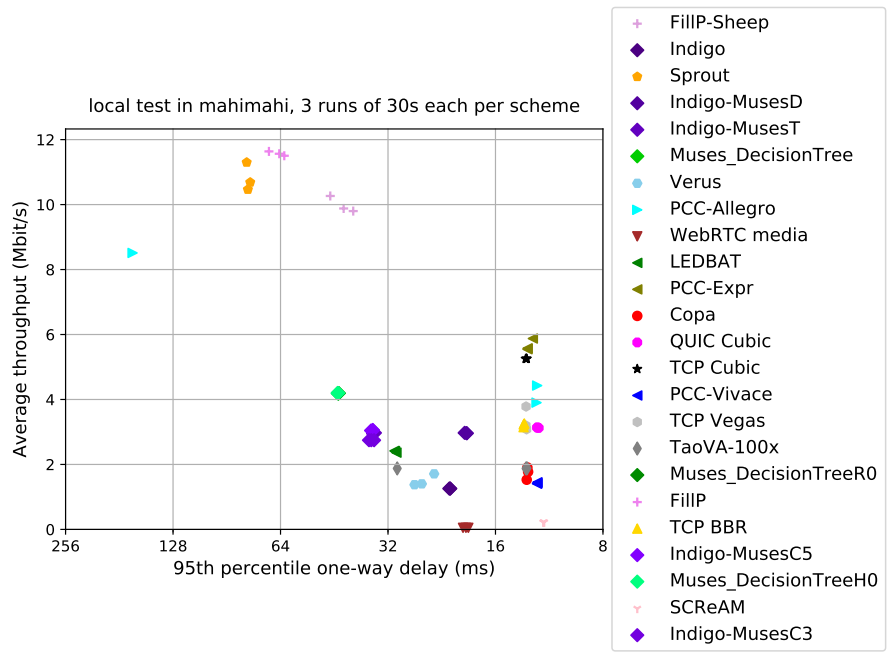
```
Linux 4.15.0-1034-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ 2076e1149a241f3edb4365d686df32342bf9561f
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 @ 8bb93ffff2b107204a92d8b72449fc0c55e15f00
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)





scheme	# runs	mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate (%)
		flow 1	flow 1	flow 1
TCP BBR	3	3.21	13.32	0.04
Copa	3	1.74	13.02	0.05
TCP Cubic	3	5.25	13.12	0.05
FillP	3	11.57	65.32	0.15
FillP-Sheep	3	9.98	43.03	0.06
Indigo	3	1.26	21.47	0.11
Indigo-MusesC3	3	2.75	35.61	0.13
Indigo-MusesC5	3	3.05	35.42	0.26
Indigo-MusesD	3	2.96	19.36	0.07
Indigo-MusesT	3	2.96	35.07	0.34
LEDBAT	3	2.39	30.52	0.31
Muses_DecisionTree	3	4.19	44.06	0.14
Muses_DecisionTreeH0	3	4.19	44.20	0.21
Muses_DecisionTreeR0	3	4.19	44.11	0.13
PCC-Allegro	3	5.61	63.55	0.04
PCC-Expr	3	5.67	12.87	0.04
QUIC Cubic	3	3.13	12.18	0.05
SCReAM	3	0.22	11.73	0.09
Sprout	3	10.81	78.80	0.16
TaoVA-100x	3	1.88	18.78	0.03
TCP Vegas	3	3.35	13.13	0.02
Verus	3	1.50	25.49	0.07
PCC-Vivace	3	1.43	12.22	0.03
WebRTC media	3	0.05	19.38	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-07-11 23:19:35

End at: 2019-07-11 23:20:05

Below is generated by plot.py at 2019-07-11 23:54:24

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 3.15 Mbit/s (26.2% utilization)

95th percentile per-packet one-way delay: 13.349 ms

Loss rate: 0.03%

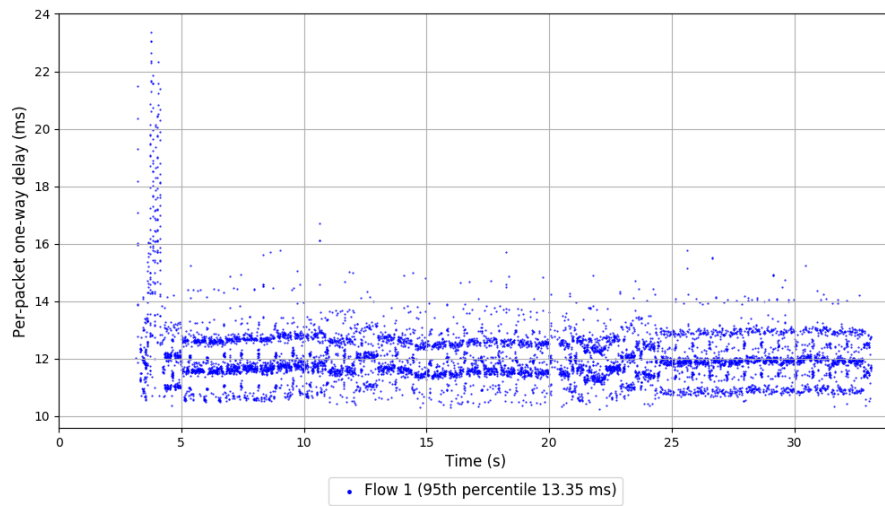
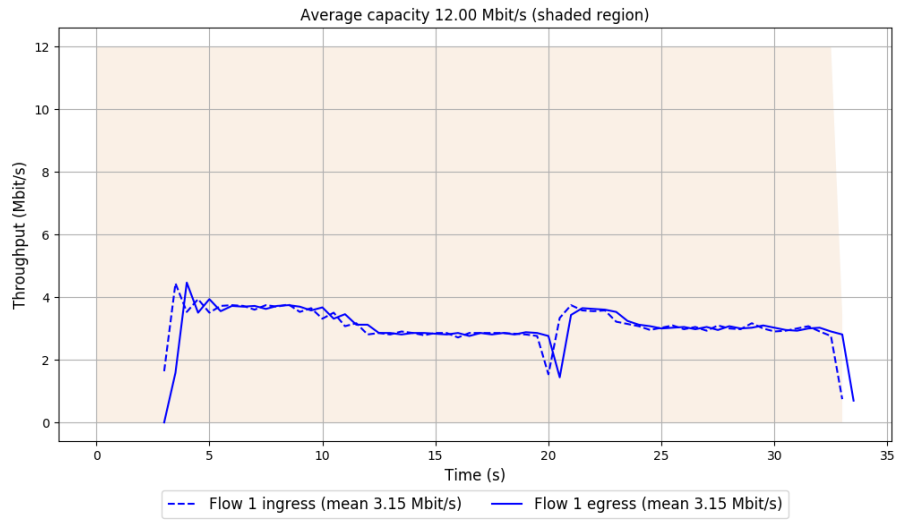
-- Flow 1:

Average throughput: 3.15 Mbit/s

95th percentile per-packet one-way delay: 13.349 ms

Loss rate: 0.03%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-07-11 23:33:39

End at: 2019-07-11 23:34:09

Below is generated by plot.py at 2019-07-11 23:54:26

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 3.26 Mbit/s (27.2% utilization)

95th percentile per-packet one-way delay: 13.286 ms

Loss rate: 0.02%

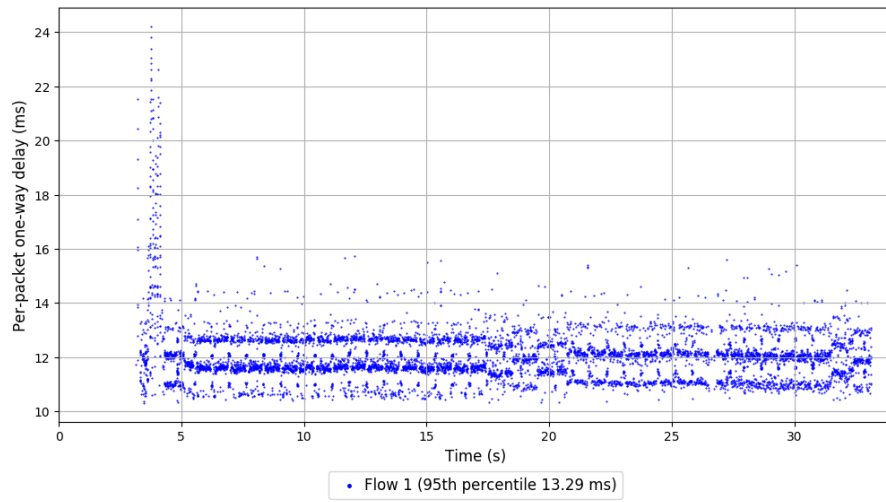
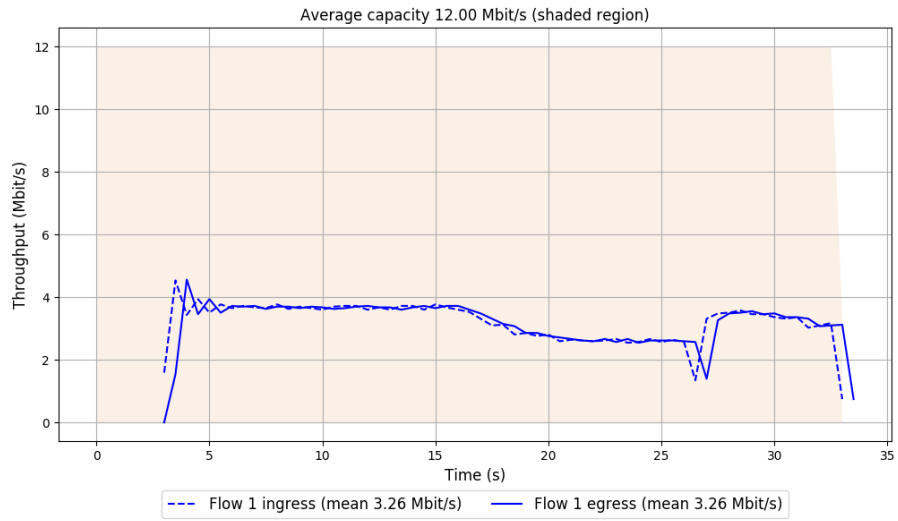
-- Flow 1:

Average throughput: 3.26 Mbit/s

95th percentile per-packet one-way delay: 13.286 ms

Loss rate: 0.02%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-07-11 23:47:42

End at: 2019-07-11 23:48:12

Below is generated by plot.py at 2019-07-11 23:54:27

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 3.23 Mbit/s (26.9% utilization)

95th percentile per-packet one-way delay: 13.338 ms

Loss rate: 0.07%

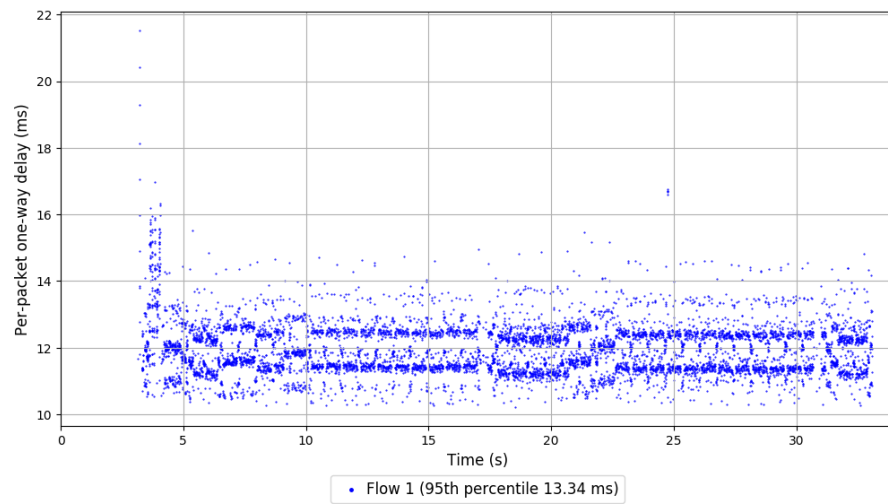
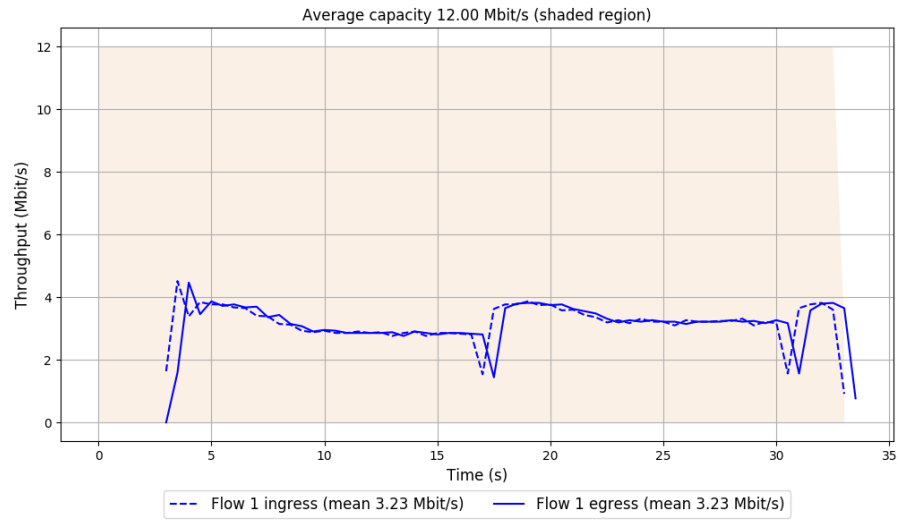
-- Flow 1:

Average throughput: 3.23 Mbit/s

95th percentile per-packet one-way delay: 13.338 ms

Loss rate: 0.07%

Run 3: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-07-11 23:12:33

End at: 2019-07-11 23:13:03

Below is generated by plot.py at 2019-07-11 23:54:27

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.77 Mbit/s (14.8% utilization)

95th percentile per-packet one-way delay: 12.964 ms

Loss rate: 0.07%

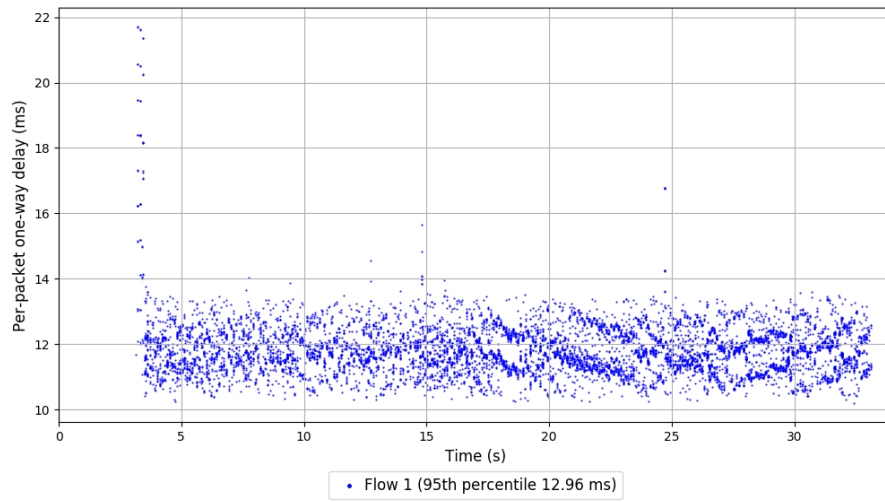
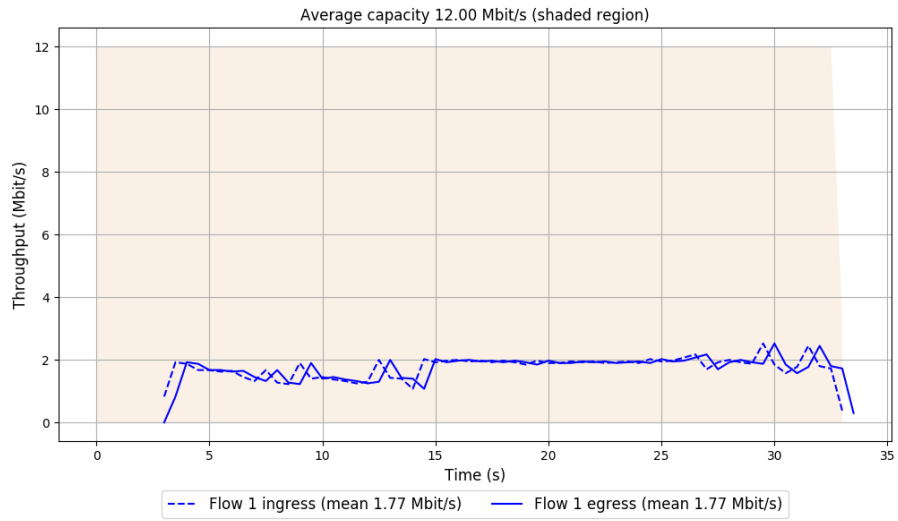
-- Flow 1:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 12.964 ms

Loss rate: 0.07%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-07-11 23:26:37

End at: 2019-07-11 23:27:07

Below is generated by plot.py at 2019-07-11 23:54:27

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: 13.024 ms

Loss rate: 0.02%

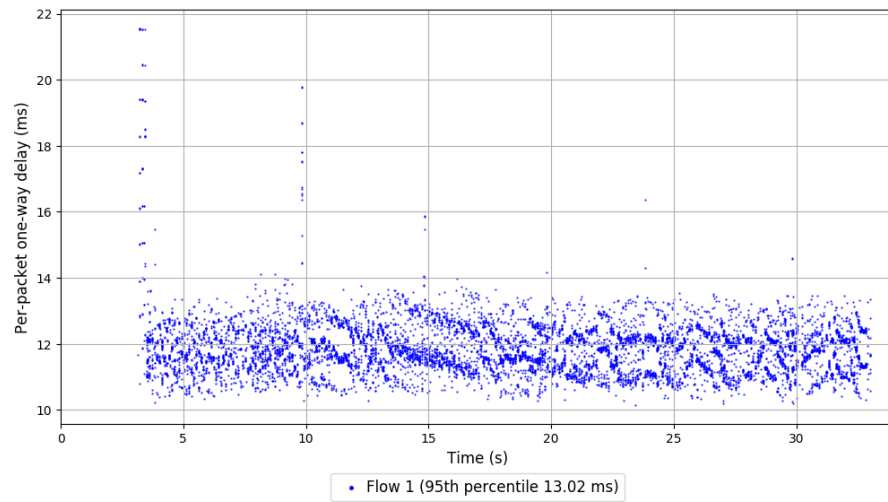
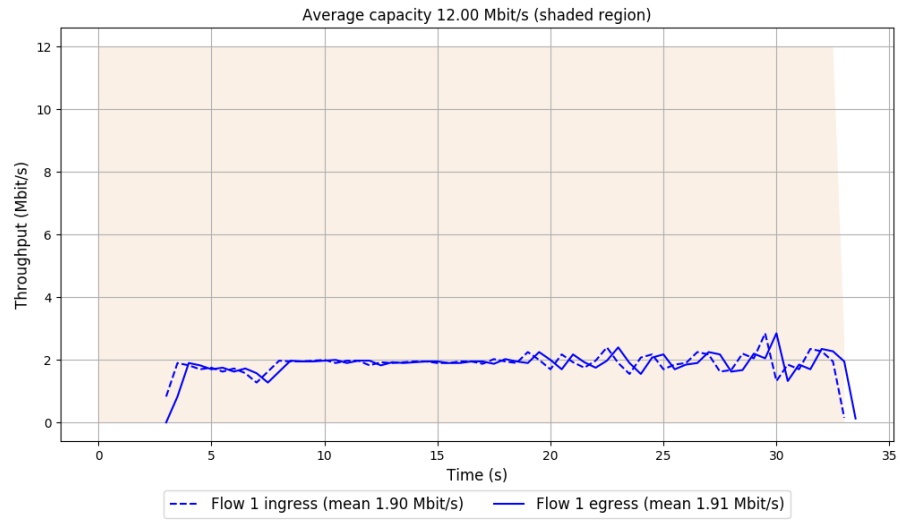
-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 13.024 ms

Loss rate: 0.02%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-07-11 23:40:40

End at: 2019-07-11 23:41:10

Below is generated by plot.py at 2019-07-11 23:54:27

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.53 Mbit/s (12.7% utilization)

95th percentile per-packet one-way delay: 13.081 ms

Loss rate: 0.05%

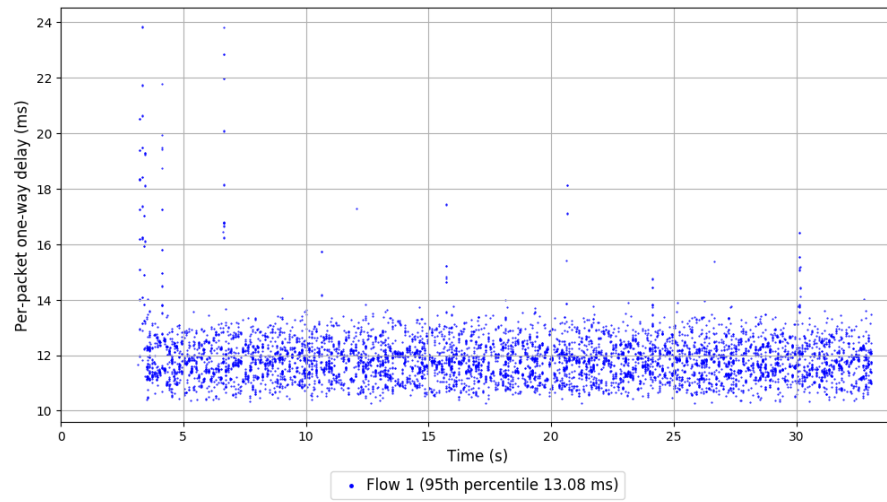
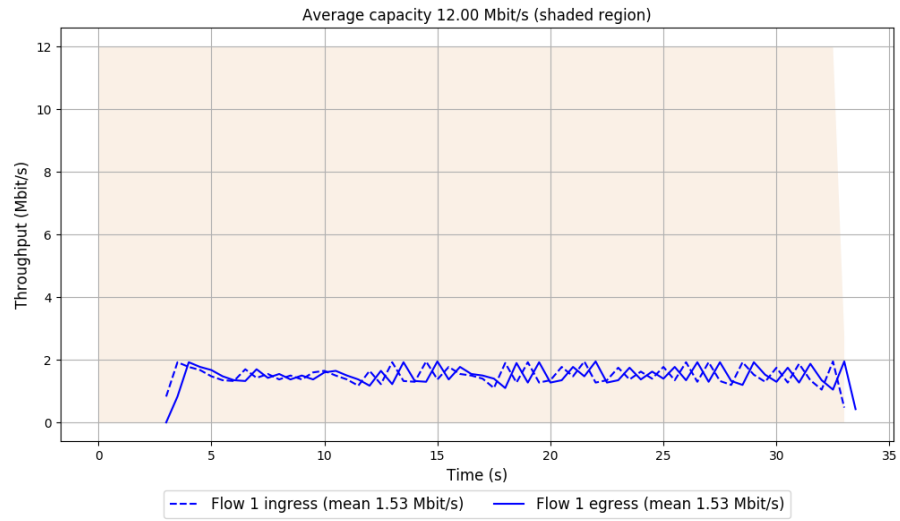
-- Flow 1:

Average throughput: 1.53 Mbit/s

95th percentile per-packet one-way delay: 13.081 ms

Loss rate: 0.05%

Run 3: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-07-11 23:17:50

End at: 2019-07-11 23:18:20

Below is generated by plot.py at 2019-07-11 23:54:28

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 5.25 Mbit/s (43.8% utilization)

95th percentile per-packet one-way delay: 13.086 ms

Loss rate: 0.05%

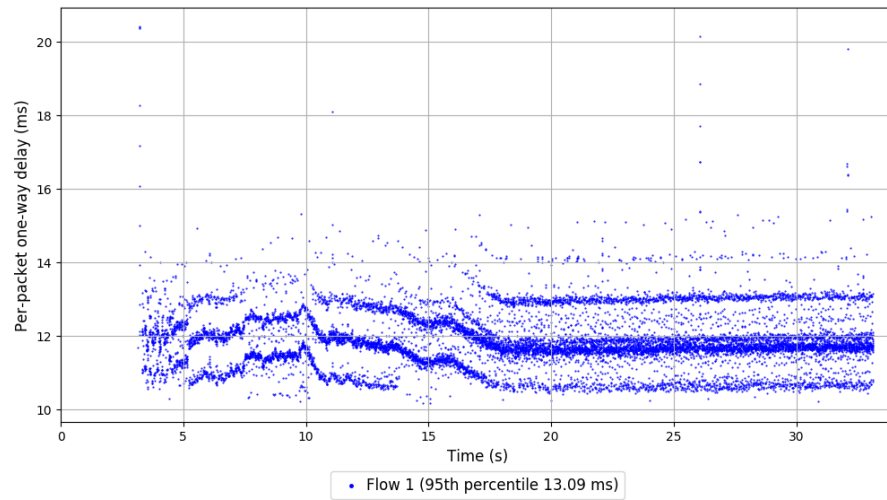
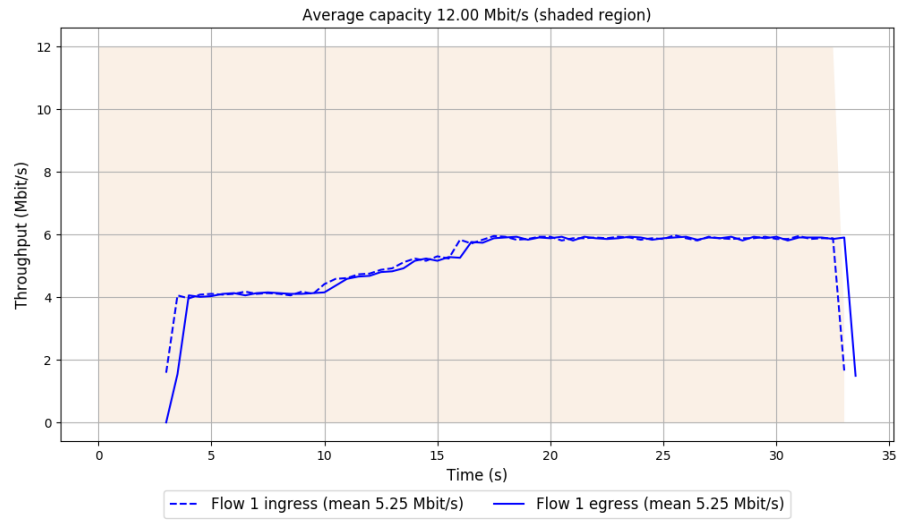
-- Flow 1:

Average throughput: 5.25 Mbit/s

95th percentile per-packet one-way delay: 13.086 ms

Loss rate: 0.05%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-07-11 23:31:54

End at: 2019-07-11 23:32:24

Below is generated by plot.py at 2019-07-11 23:54:29

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 5.25 Mbit/s (43.8% utilization)

95th percentile per-packet one-way delay: 13.169 ms

Loss rate: 0.06%

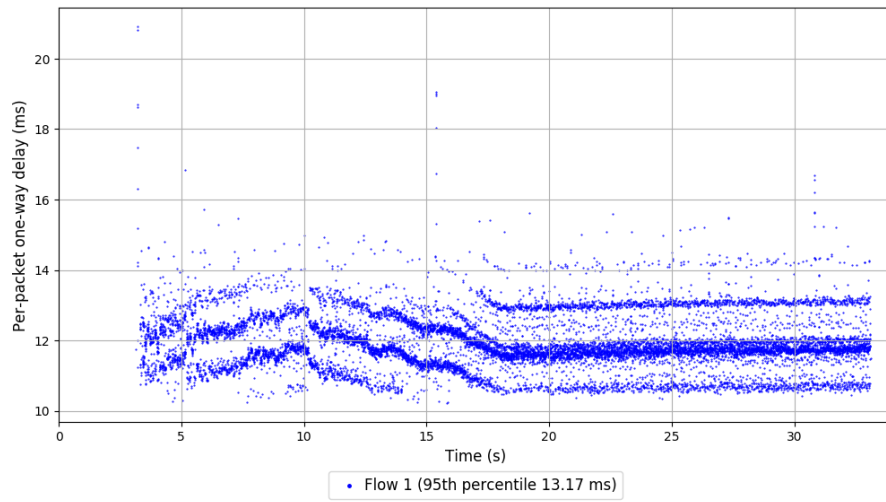
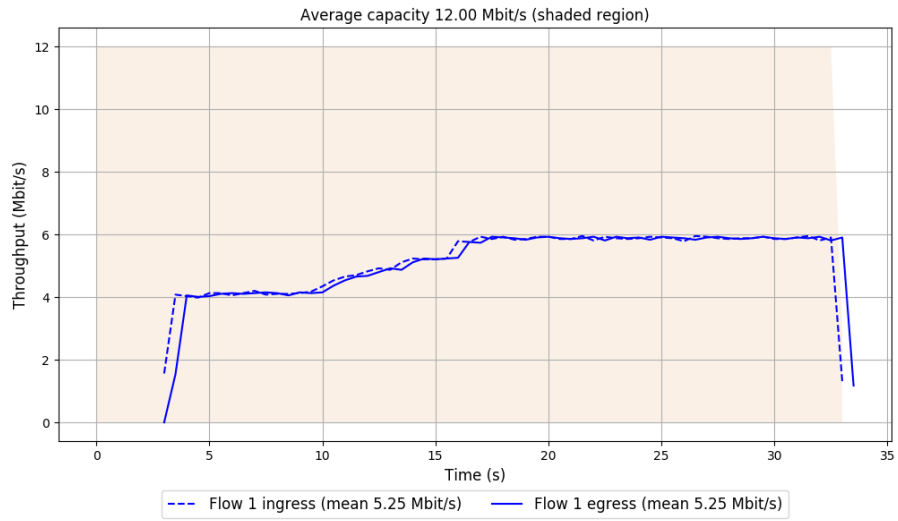
-- Flow 1:

Average throughput: 5.25 Mbit/s

95th percentile per-packet one-way delay: 13.169 ms

Loss rate: 0.06%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-07-11 23:45:57

End at: 2019-07-11 23:46:27

Below is generated by plot.py at 2019-07-11 23:54:36

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 5.26 Mbit/s (43.8% utilization)

95th percentile per-packet one-way delay: 13.094 ms

Loss rate: 0.05%

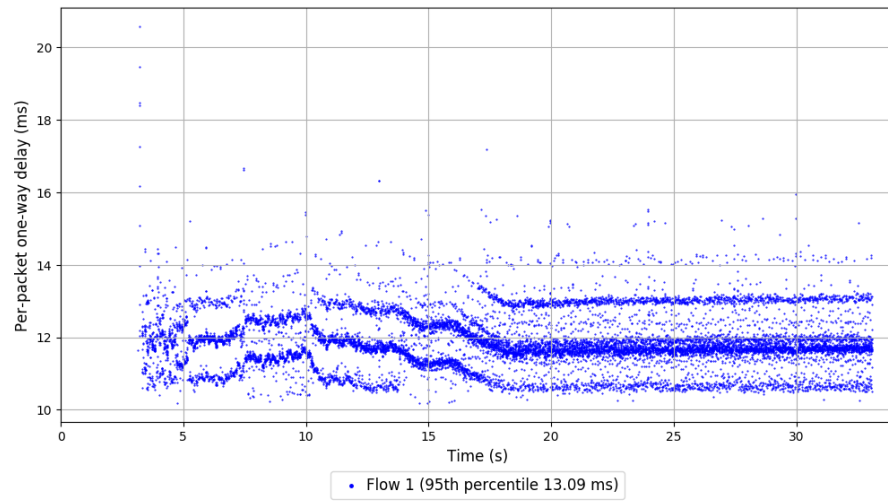
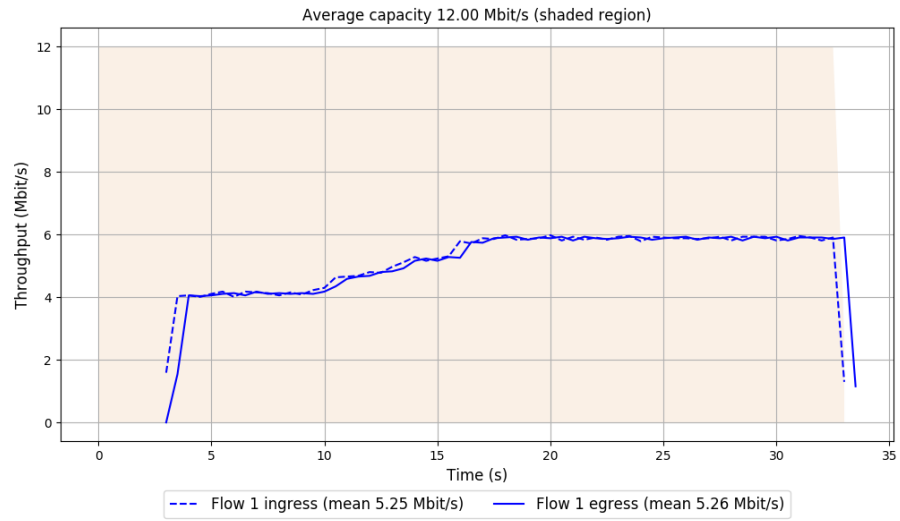
-- Flow 1:

Average throughput: 5.26 Mbit/s

95th percentile per-packet one-way delay: 13.094 ms

Loss rate: 0.05%

Run 3: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-07-11 23:21:56

End at: 2019-07-11 23:22:26

Below is generated by plot.py at 2019-07-11 23:54:50

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: 62.468 ms

Loss rate: 0.13%

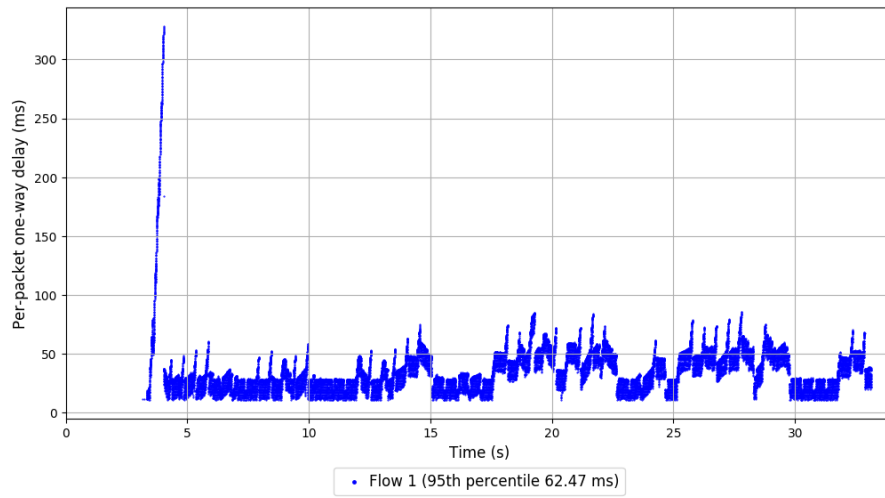
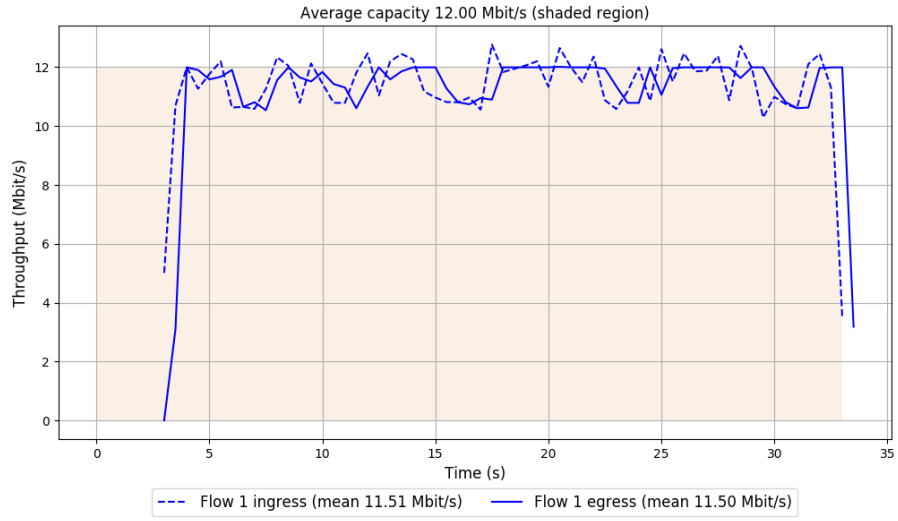
-- Flow 1:

Average throughput: 11.50 Mbit/s

95th percentile per-packet one-way delay: 62.468 ms

Loss rate: 0.13%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-07-11 23:35:59

End at: 2019-07-11 23:36:29

Below is generated by plot.py at 2019-07-11 23:54:51

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.56 Mbit/s (96.4% utilization)

95th percentile per-packet one-way delay: 64.521 ms

Loss rate: 0.15%

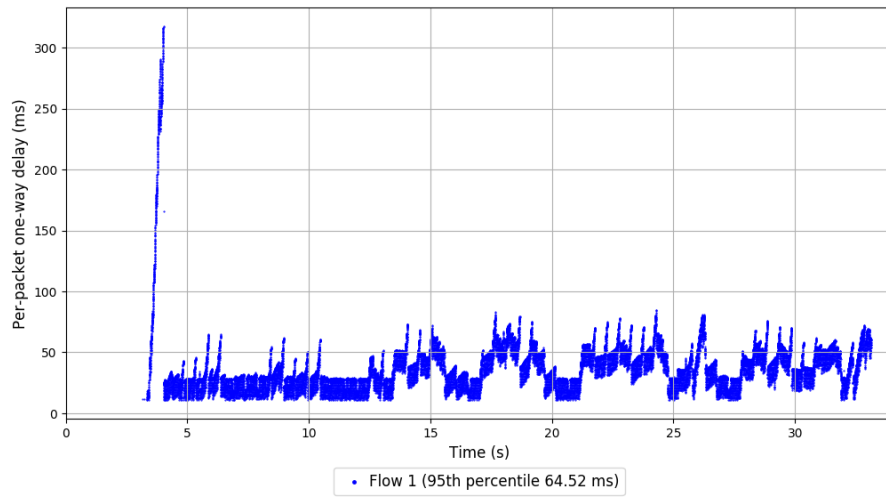
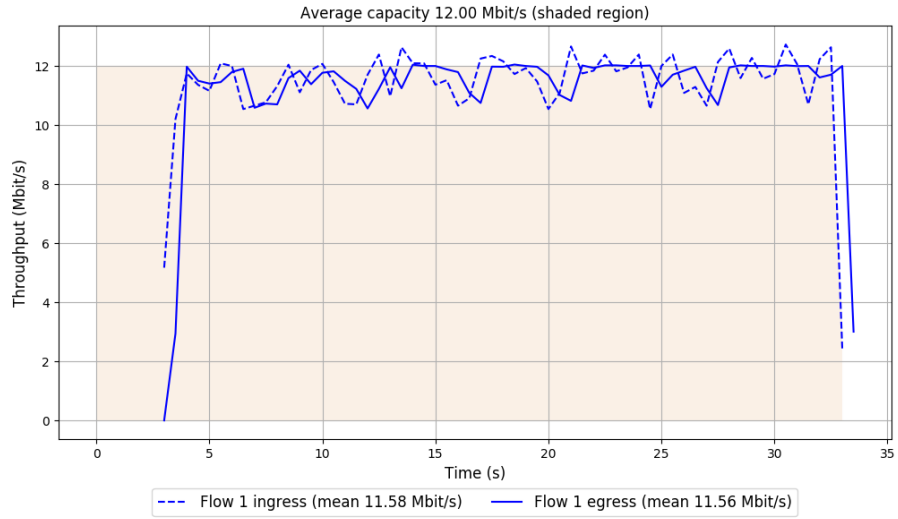
-- Flow 1:

Average throughput: 11.56 Mbit/s

95th percentile per-packet one-way delay: 64.521 ms

Loss rate: 0.15%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-07-11 23:50:03

End at: 2019-07-11 23:50:33

Below is generated by plot.py at 2019-07-11 23:54:52

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.64 Mbit/s (97.0% utilization)

95th percentile per-packet one-way delay: 68.964 ms

Loss rate: 0.16%

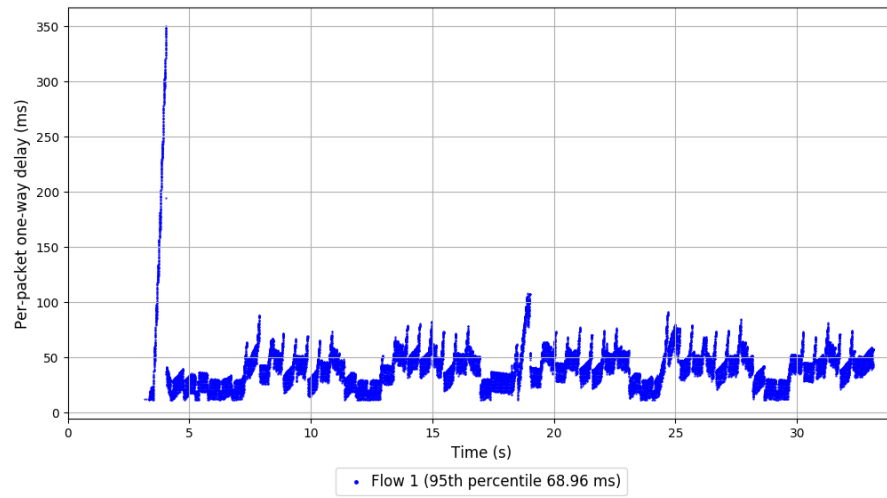
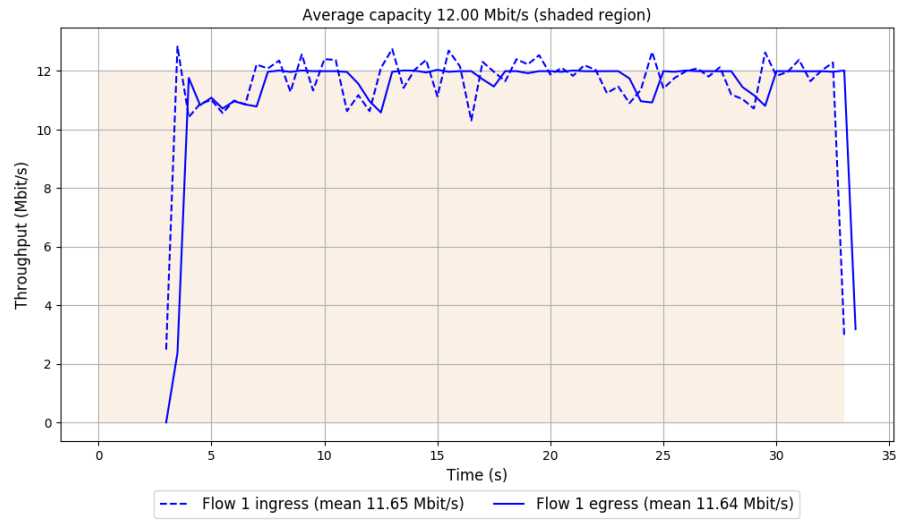
-- Flow 1:

Average throughput: 11.64 Mbit/s

95th percentile per-packet one-way delay: 68.964 ms

Loss rate: 0.16%

Run 3: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-07-11 23:14:19

End at: 2019-07-11 23:14:49

Below is generated by plot.py at 2019-07-11 23:54:52

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 9.80 Mbit/s (81.7% utilization)

95th percentile per-packet one-way delay: 40.046 ms

Loss rate: 0.03%

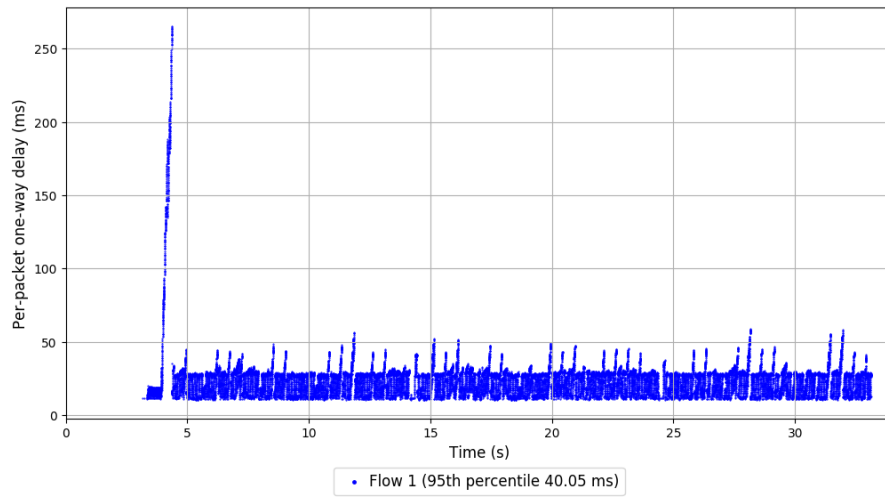
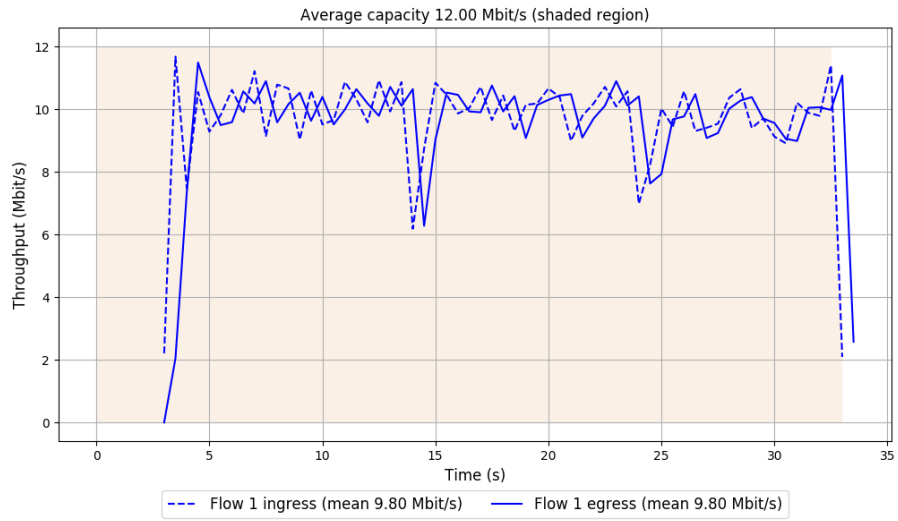
-- Flow 1:

Average throughput: 9.80 Mbit/s

95th percentile per-packet one-way delay: 40.046 ms

Loss rate: 0.03%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-07-11 23:28:23

End at: 2019-07-11 23:28:53

Below is generated by plot.py at 2019-07-11 23:54:52

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.26 Mbit/s (85.5% utilization)

95th percentile per-packet one-way delay: 46.437 ms

Loss rate: 0.07%

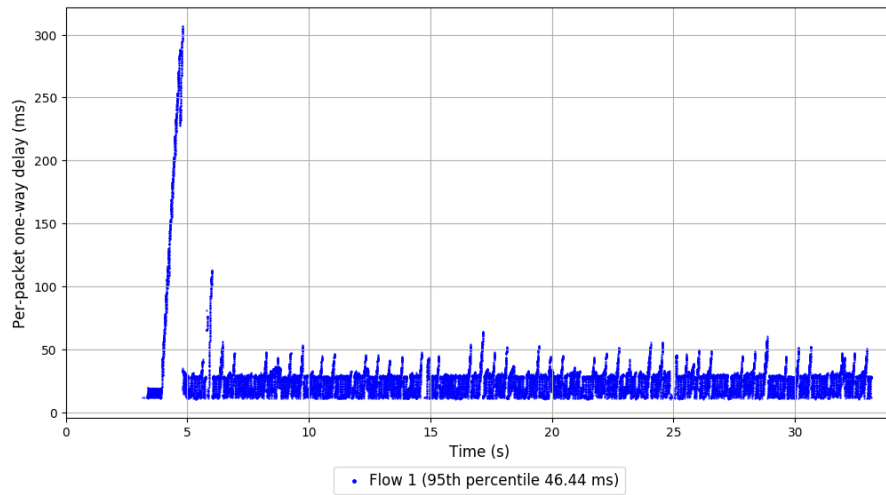
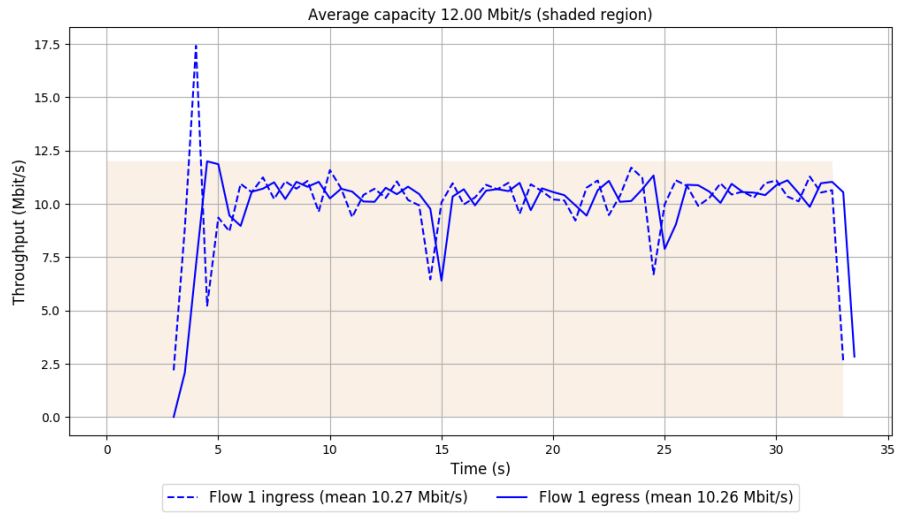
-- Flow 1:

Average throughput: 10.26 Mbit/s

95th percentile per-packet one-way delay: 46.437 ms

Loss rate: 0.07%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-07-11 23:42:26

End at: 2019-07-11 23:42:56

Below is generated by plot.py at 2019-07-11 23:54:52

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 9.88 Mbit/s (82.3% utilization)

95th percentile per-packet one-way delay: 42.598 ms

Loss rate: 0.07%

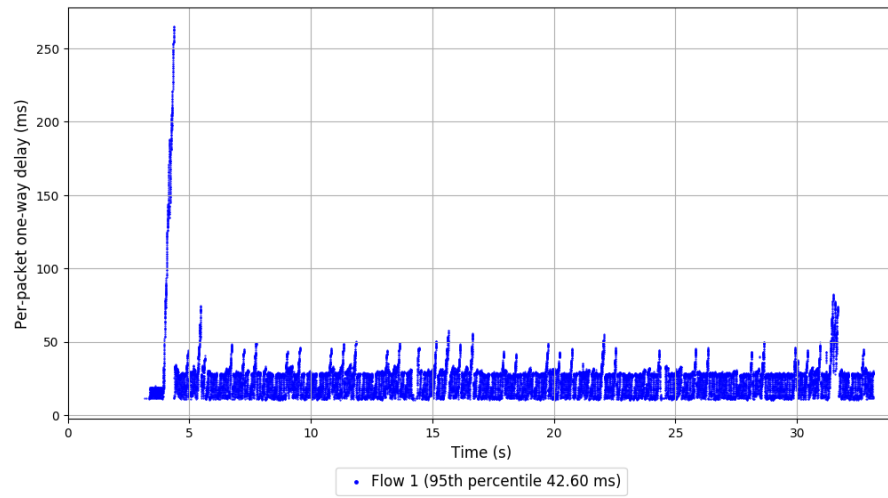
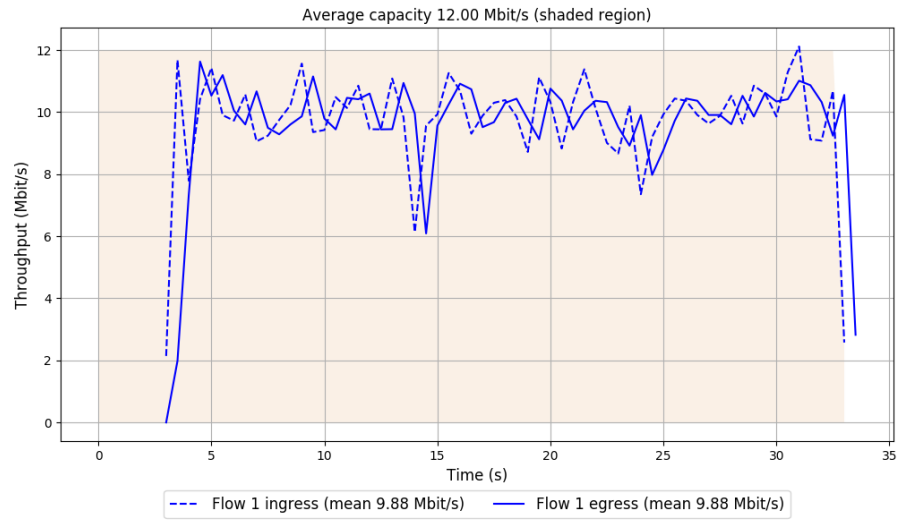
-- Flow 1:

Average throughput: 9.88 Mbit/s

95th percentile per-packet one-way delay: 42.598 ms

Loss rate: 0.07%

Run 3: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-07-11 23:20:10

End at: 2019-07-11 23:20:40

Below is generated by plot.py at 2019-07-11 23:54:52

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.26 Mbit/s (10.5% utilization)

95th percentile per-packet one-way delay: 21.443 ms

Loss rate: 0.32%

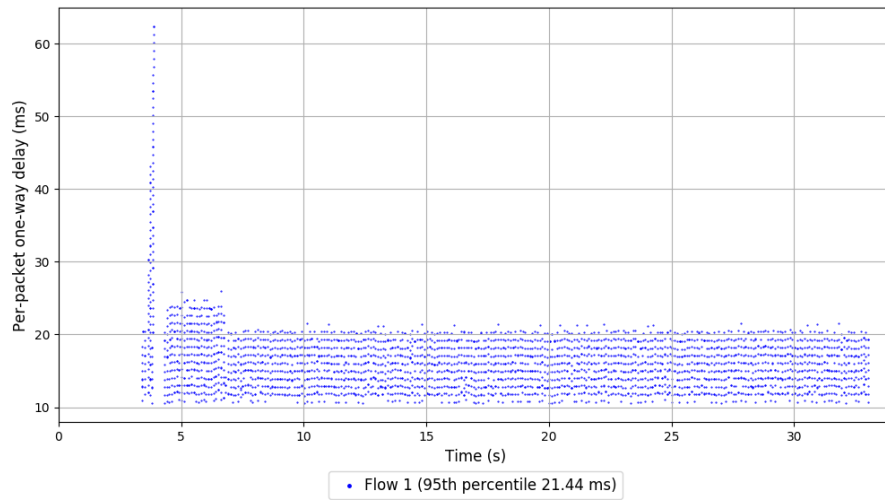
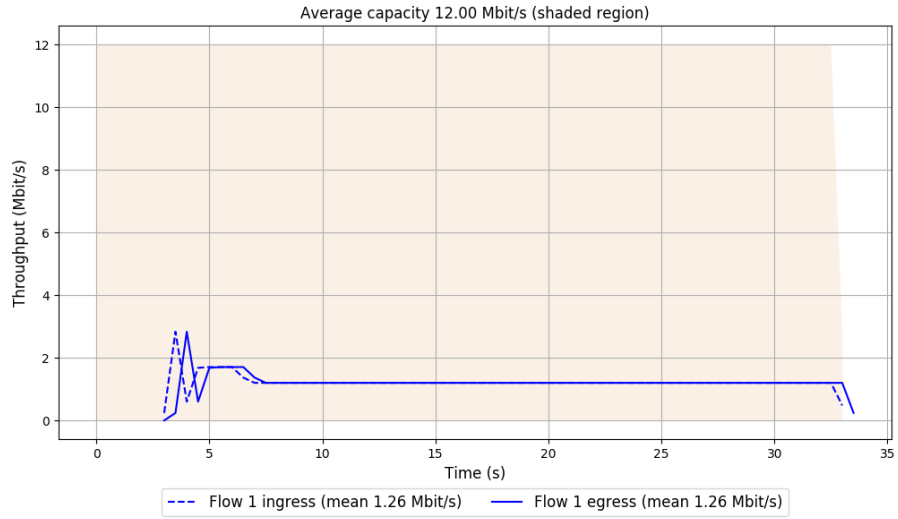
-- Flow 1:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 21.443 ms

Loss rate: 0.32%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-07-11 23:34:14

End at: 2019-07-11 23:34:44

Below is generated by plot.py at 2019-07-11 23:54:52

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.26 Mbit/s (10.5% utilization)

95th percentile per-packet one-way delay: 21.552 ms

Loss rate: 0.00%

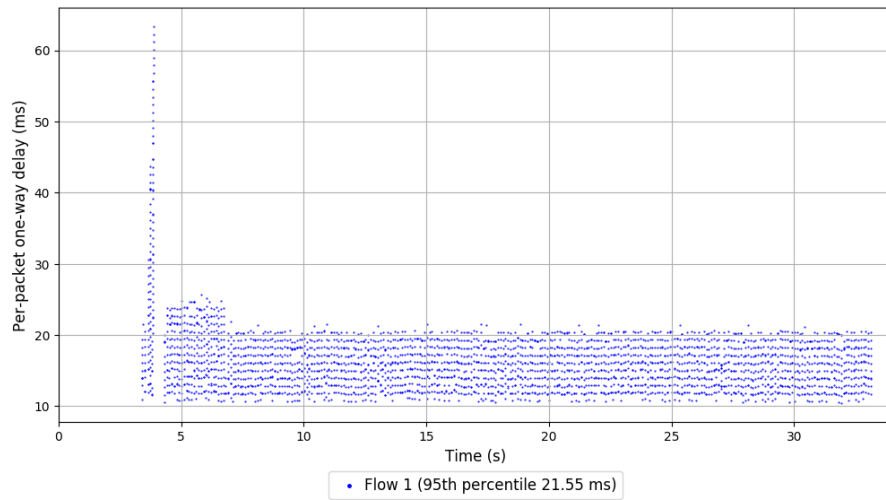
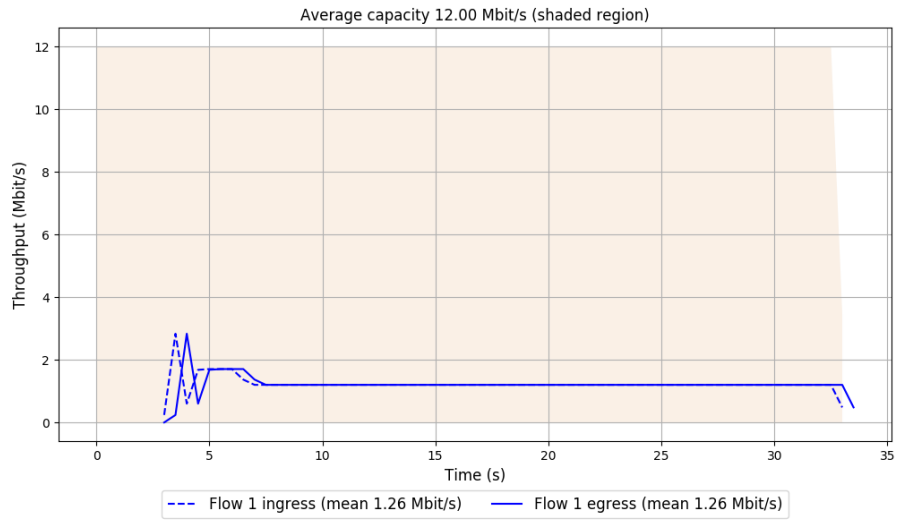
-- Flow 1:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 21.552 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-07-11 23:48:17

End at: 2019-07-11 23:48:47

Below is generated by plot.py at 2019-07-11 23:54:52

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.26 Mbit/s (10.5% utilization)

95th percentile per-packet one-way delay: 21.417 ms

Loss rate: 0.00%

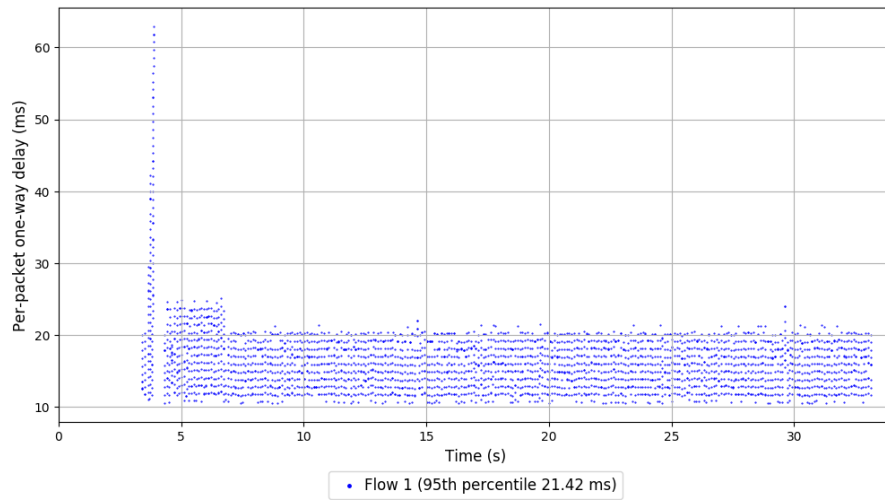
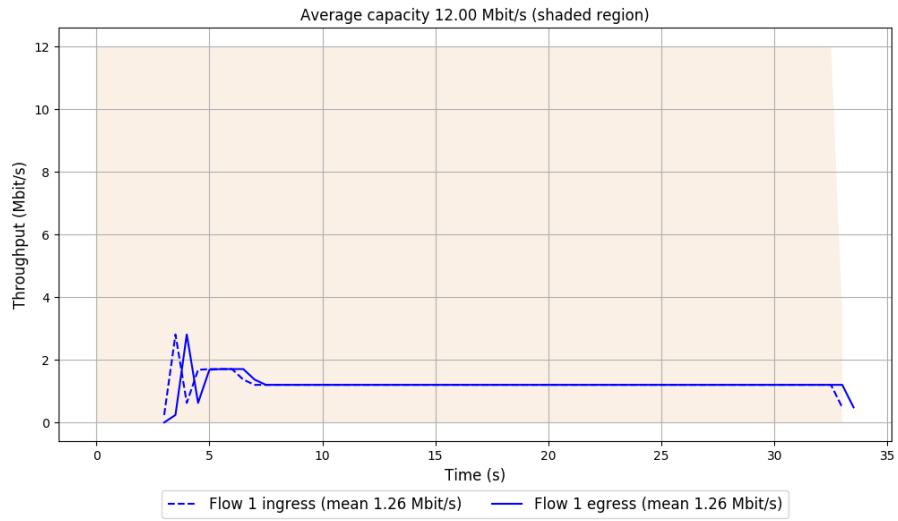
-- Flow 1:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 21.417 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-07-11 23:23:06

End at: 2019-07-11 23:23:36

Below is generated by plot.py at 2019-07-11 23:54:55

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: 36.178 ms

Loss rate: 0.02%

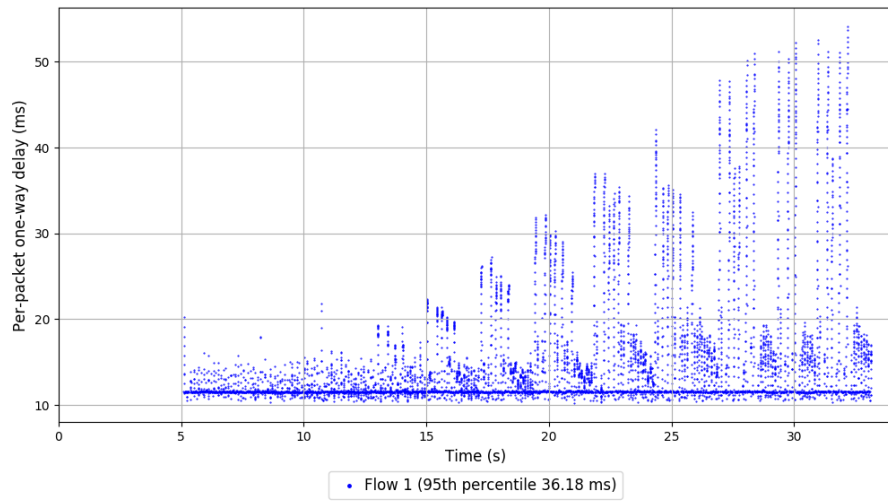
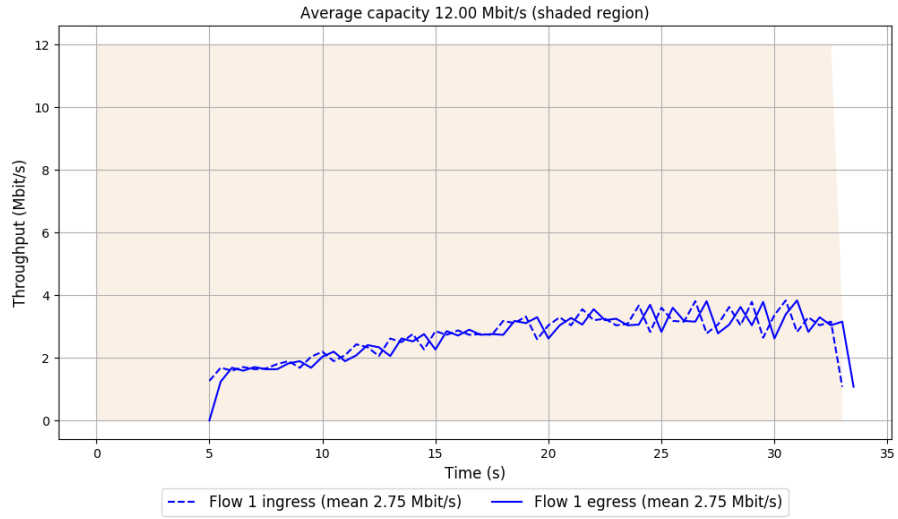
-- Flow 1:

Average throughput: 2.75 Mbit/s

95th percentile per-packet one-way delay: 36.178 ms

Loss rate: 0.02%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-07-11 23:37:10

End at: 2019-07-11 23:37:40

Below is generated by plot.py at 2019-07-11 23:54:56

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: 35.647 ms

Loss rate: 0.02%

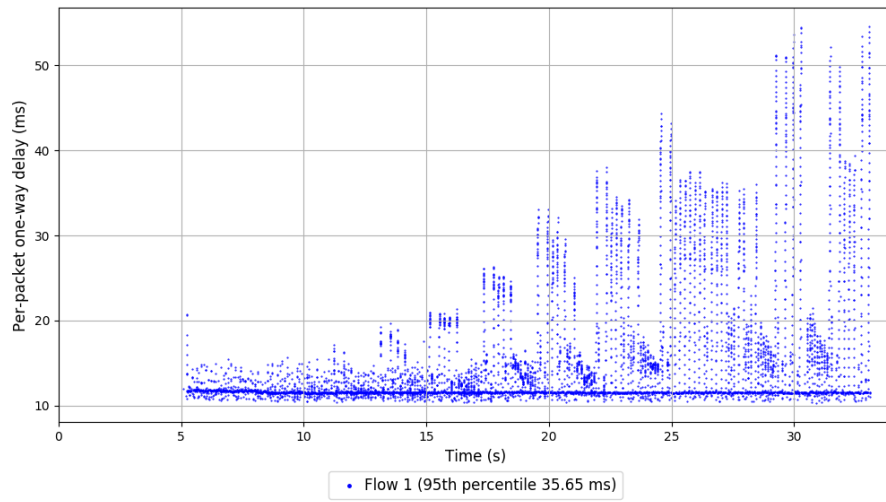
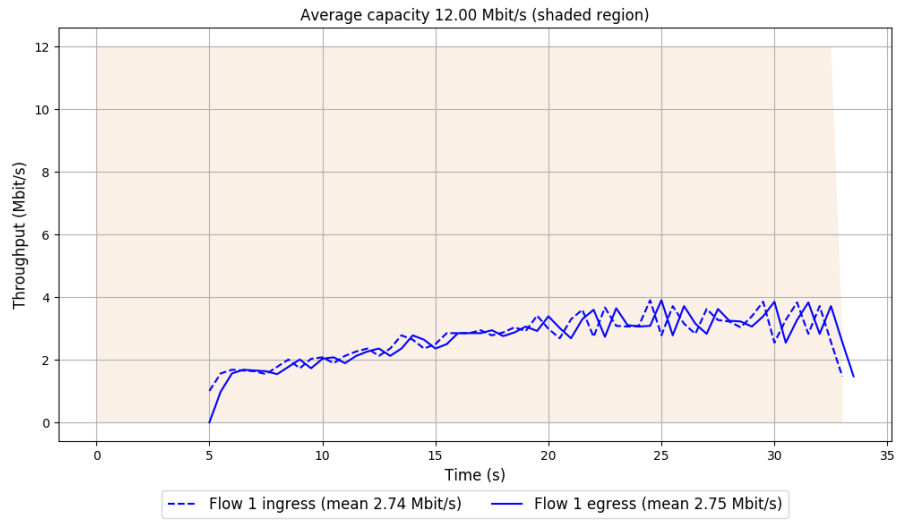
-- Flow 1:

Average throughput: 2.75 Mbit/s

95th percentile per-packet one-way delay: 35.647 ms

Loss rate: 0.02%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-07-11 23:51:13

End at: 2019-07-11 23:51:43

Below is generated by plot.py at 2019-07-11 23:54:59

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: 35.007 ms

Loss rate: 0.35%

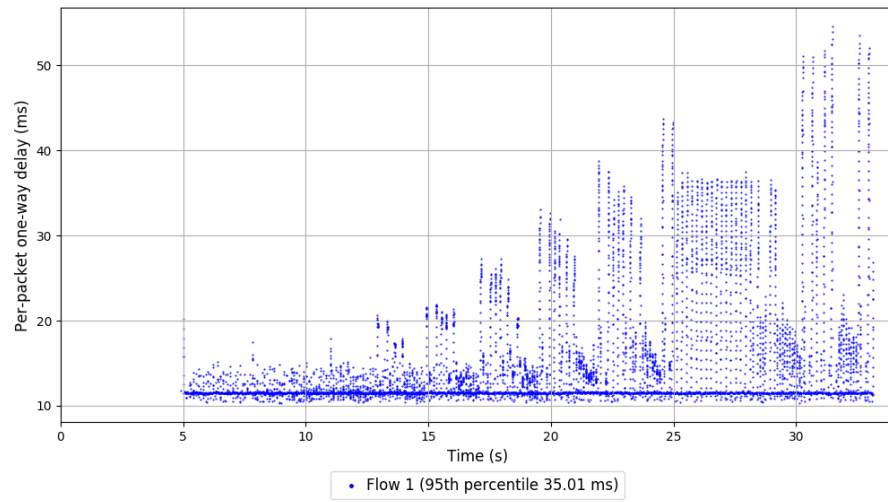
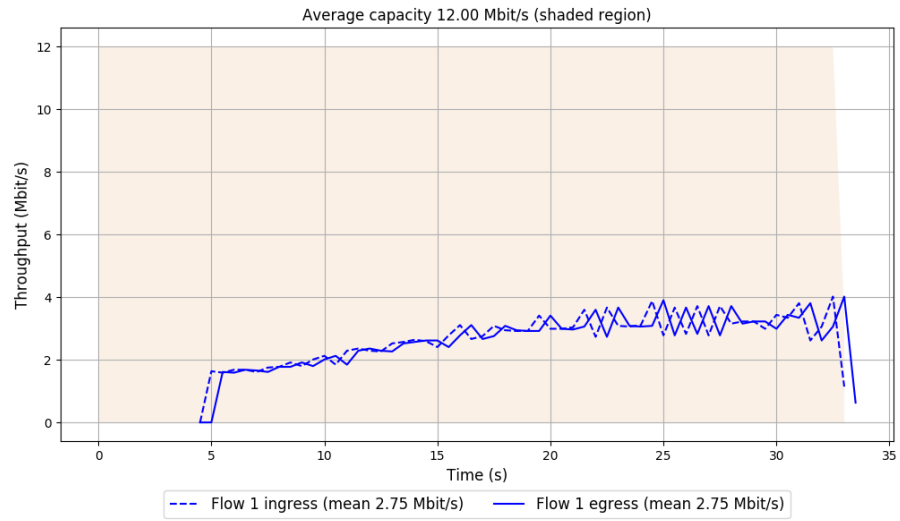
-- Flow 1:

Average throughput: 2.75 Mbit/s

95th percentile per-packet one-way delay: 35.007 ms

Loss rate: 0.35%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-07-11 23:22:31

End at: 2019-07-11 23:23:01

Below is generated by plot.py at 2019-07-11 23:55:01

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: 35.270 ms

Loss rate: 0.27%

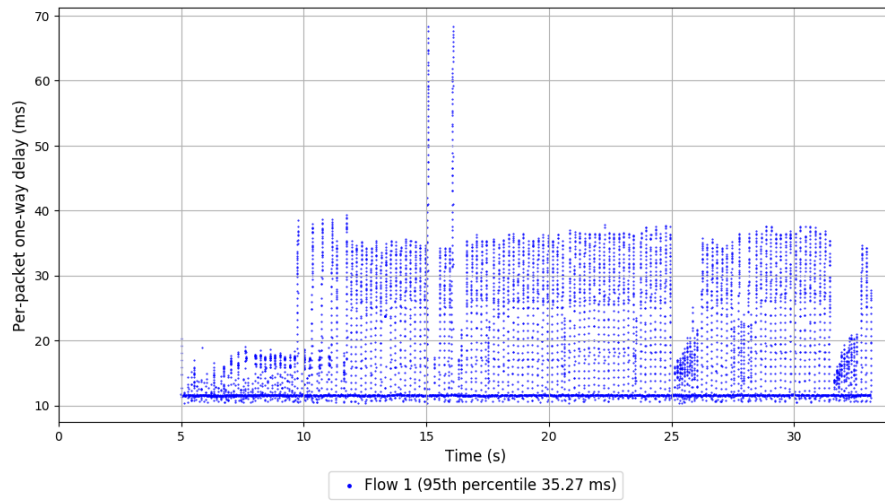
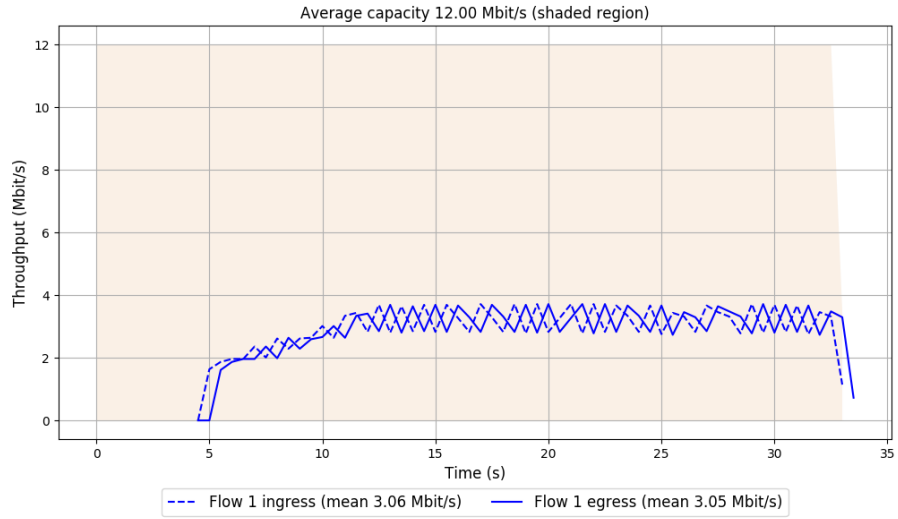
-- Flow 1:

Average throughput: 3.05 Mbit/s

95th percentile per-packet one-way delay: 35.270 ms

Loss rate: 0.27%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-07-11 23:36:34

End at: 2019-07-11 23:37:04

Below is generated by plot.py at 2019-07-11 23:55:03

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: 35.307 ms

Loss rate: 0.36%

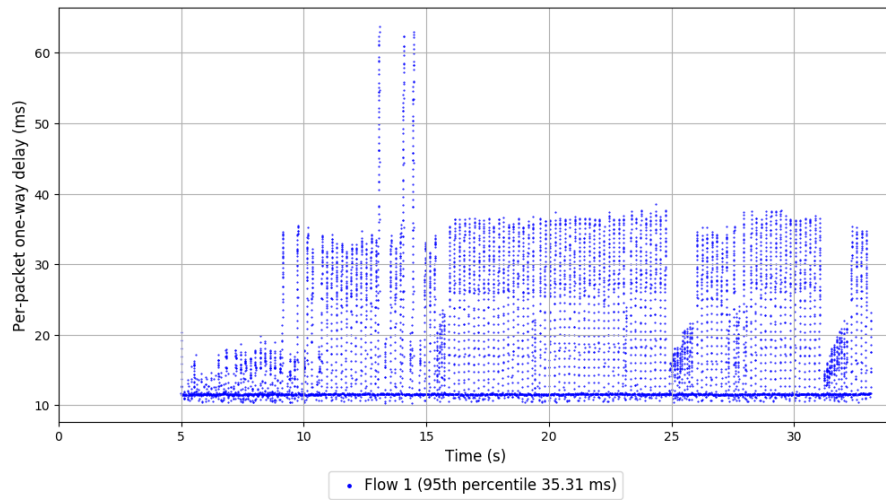
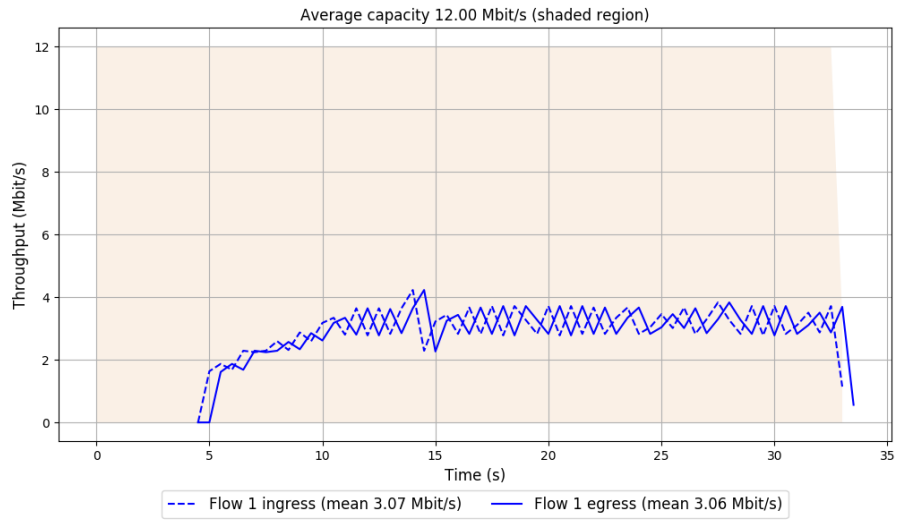
-- Flow 1:

Average throughput: 3.06 Mbit/s

95th percentile per-packet one-way delay: 35.307 ms

Loss rate: 0.36%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-07-11 23:50:38

End at: 2019-07-11 23:51:08

Below is generated by plot.py at 2019-07-11 23:55:04

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 3.04 Mbit/s (25.4% utilization)

95th percentile per-packet one-way delay: 35.696 ms

Loss rate: 0.15%

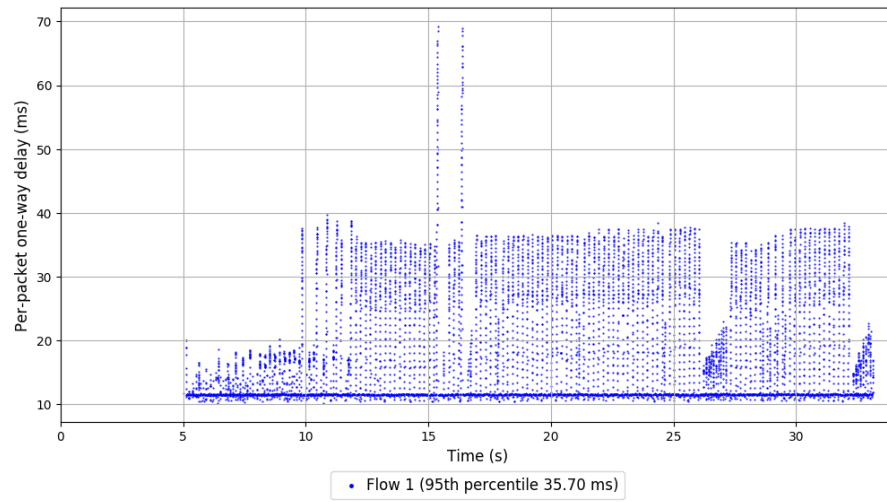
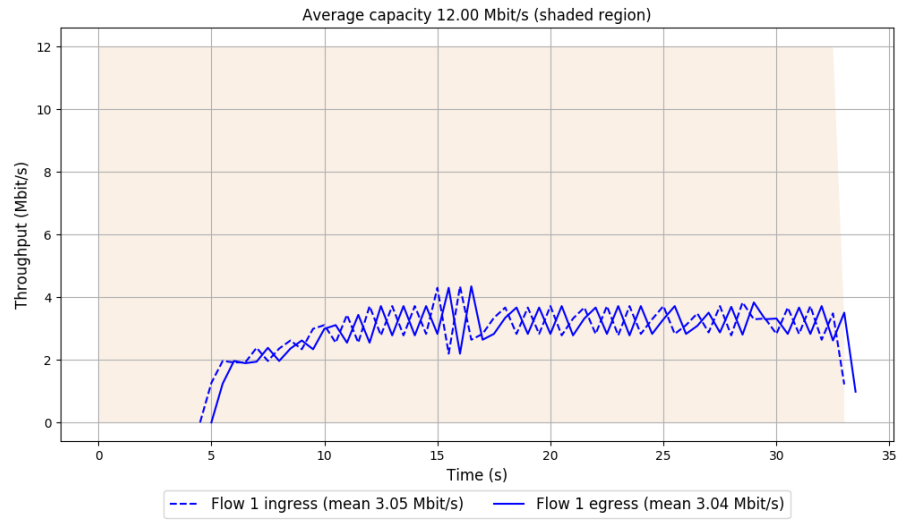
-- Flow 1:

Average throughput: 3.04 Mbit/s

95th percentile per-packet one-way delay: 35.696 ms

Loss rate: 0.15%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-07-11 23:18:25

End at: 2019-07-11 23:18:55

Below is generated by plot.py at 2019-07-11 23:55:04

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: 19.302 ms

Loss rate: 0.01%

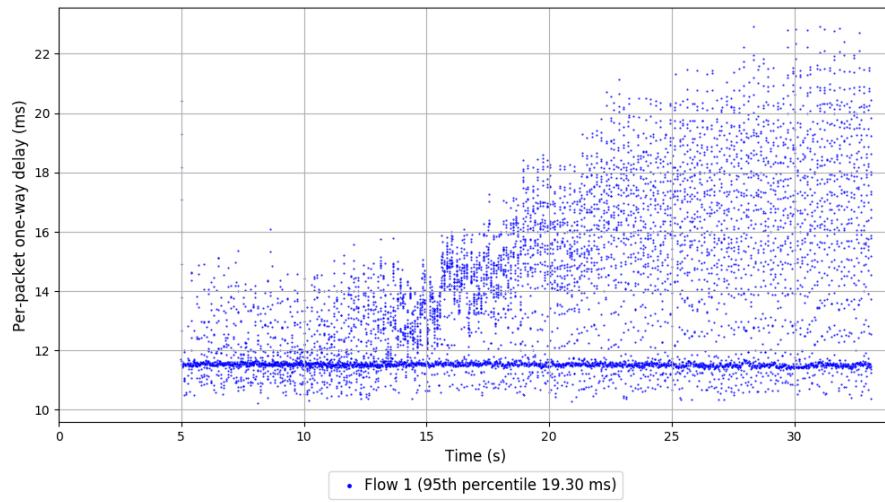
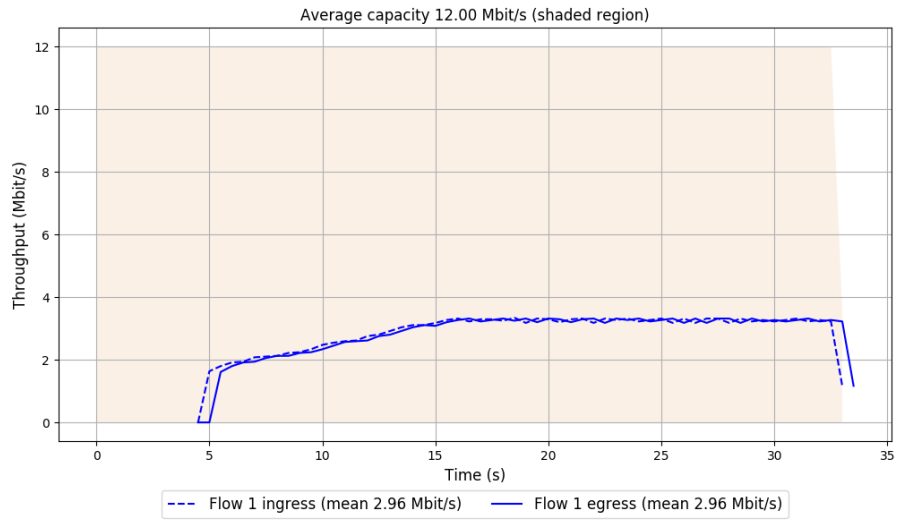
-- Flow 1:

Average throughput: 2.96 Mbit/s

95th percentile per-packet one-way delay: 19.302 ms

Loss rate: 0.01%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-07-11 23:32:29

End at: 2019-07-11 23:32:59

Below is generated by plot.py at 2019-07-11 23:55:05

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 2.97 Mbit/s (24.8% utilization)

95th percentile per-packet one-way delay: 19.522 ms

Loss rate: 0.14%

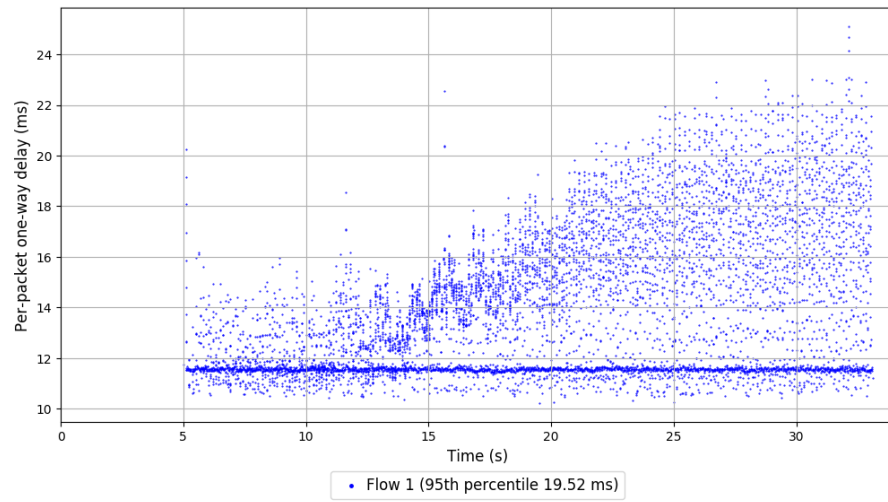
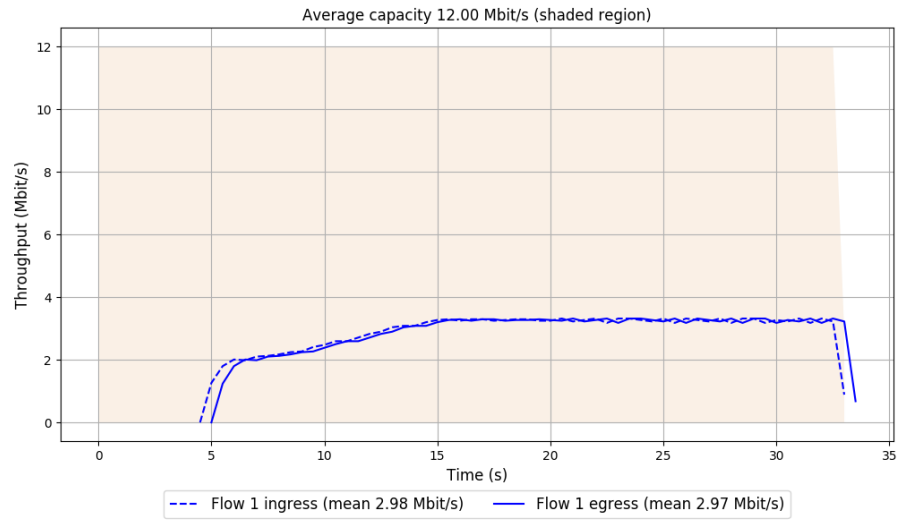
-- Flow 1:

Average throughput: 2.97 Mbit/s

95th percentile per-packet one-way delay: 19.522 ms

Loss rate: 0.14%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-07-11 23:46:32

End at: 2019-07-11 23:47:02

Below is generated by plot.py at 2019-07-11 23:55:07

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: 19.242 ms

Loss rate: 0.07%

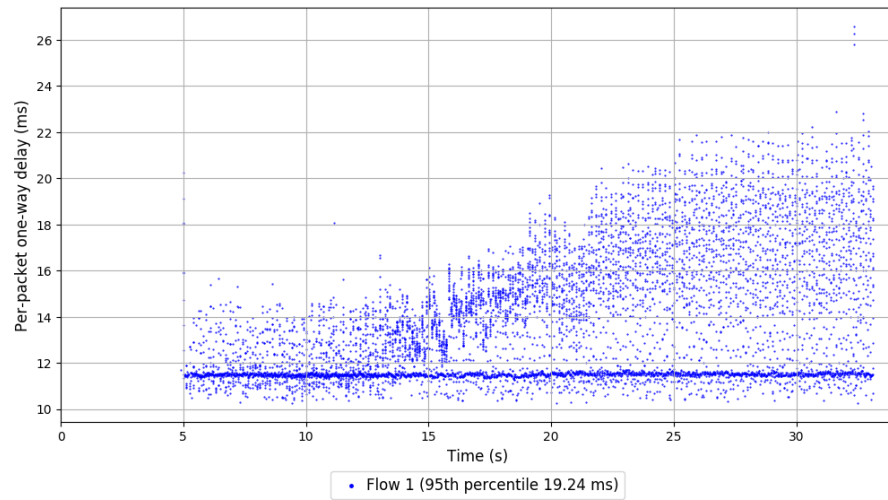
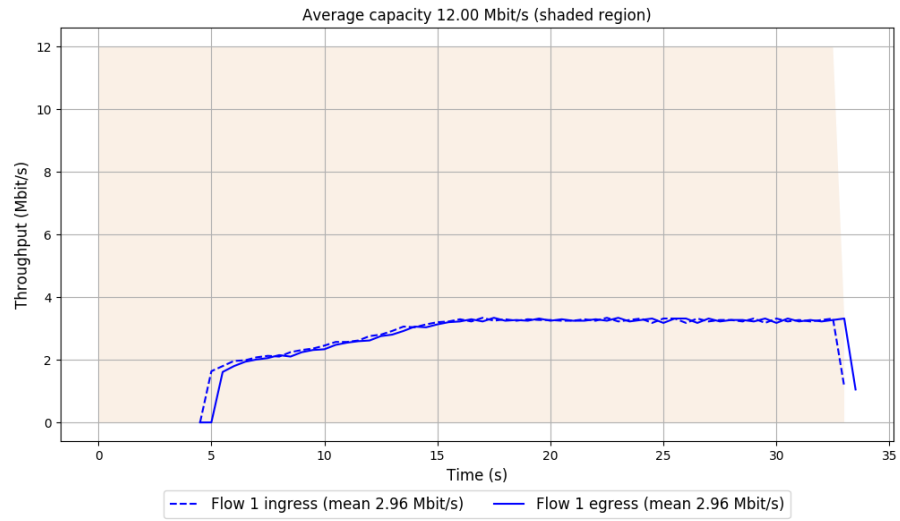
-- Flow 1:

Average throughput: 2.96 Mbit/s

95th percentile per-packet one-way delay: 19.242 ms

Loss rate: 0.07%

Run 3: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MuseST

Start at: 2019-07-11 23:19:00

End at: 2019-07-11 23:19:30

Below is generated by plot.py at 2019-07-11 23:55:10

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: 35.171 ms

Loss rate: 0.49%

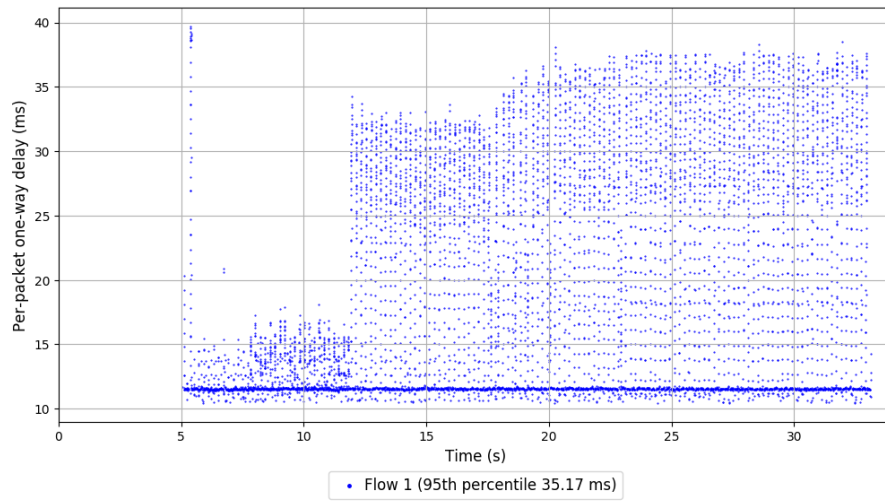
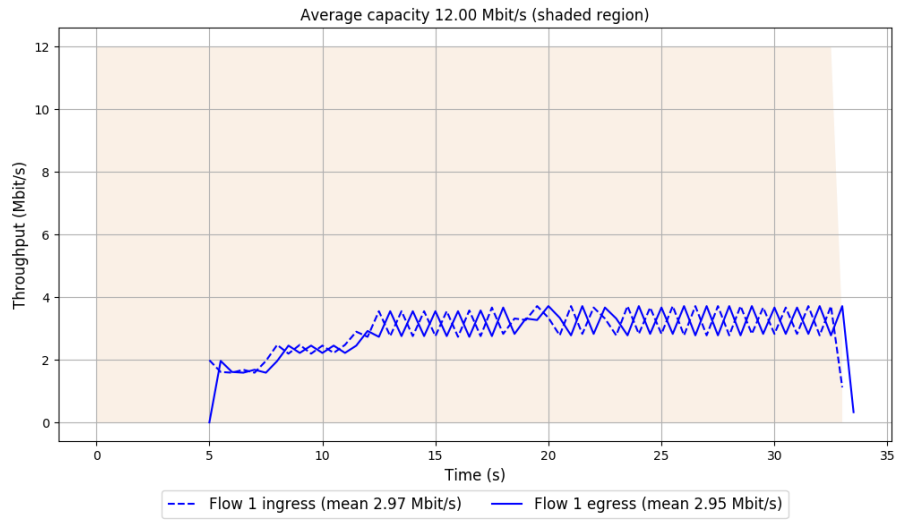
-- Flow 1:

Average throughput: 2.95 Mbit/s

95th percentile per-packet one-way delay: 35.171 ms

Loss rate: 0.49%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MuseST

Start at: 2019-07-11 23:33:04

End at: 2019-07-11 23:33:34

Below is generated by plot.py at 2019-07-11 23:55:12

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: 35.219 ms

Loss rate: 0.52%

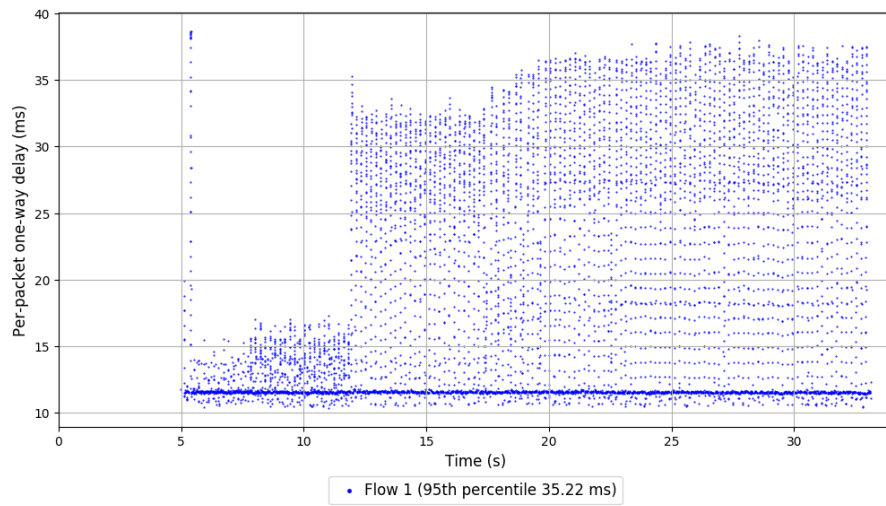
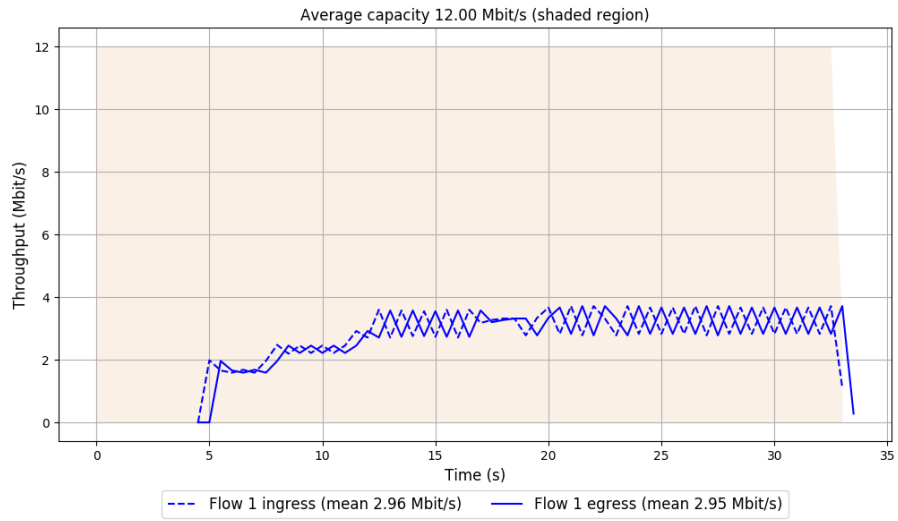
-- Flow 1:

Average throughput: 2.95 Mbit/s

95th percentile per-packet one-way delay: 35.219 ms

Loss rate: 0.52%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MuseST

Start at: 2019-07-11 23:47:07

End at: 2019-07-11 23:47:37

Below is generated by plot.py at 2019-07-11 23:55:14

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 2.97 Mbit/s (24.8% utilization)

95th percentile per-packet one-way delay: 34.818 ms

Loss rate: 0.01%

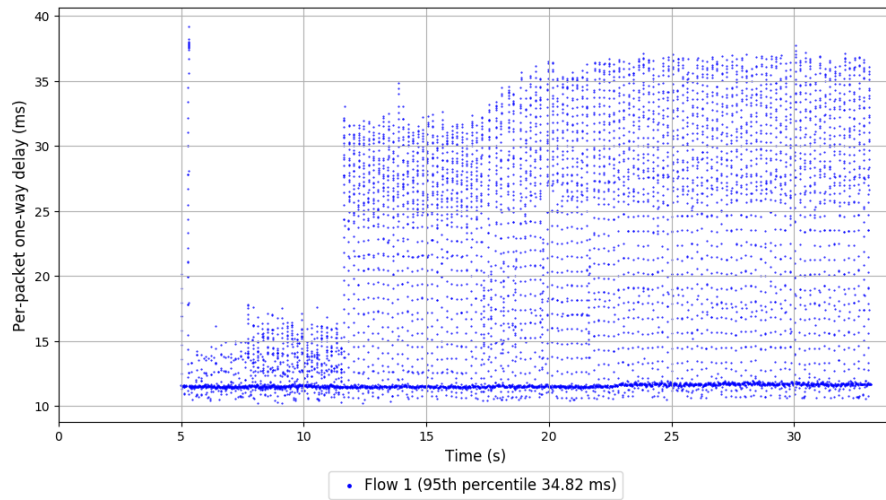
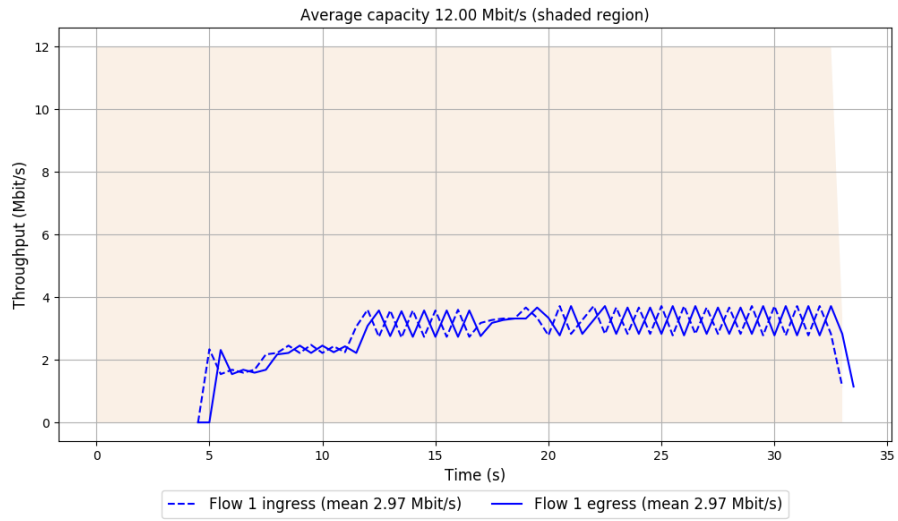
-- Flow 1:

Average throughput: 2.97 Mbit/s

95th percentile per-packet one-way delay: 34.818 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-07-11 23:20:45

End at: 2019-07-11 23:21:15

Below is generated by plot.py at 2019-07-11 23:55:15

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 2.40 Mbit/s (20.0% utilization)

95th percentile per-packet one-way delay: 30.569 ms

Loss rate: 0.31%

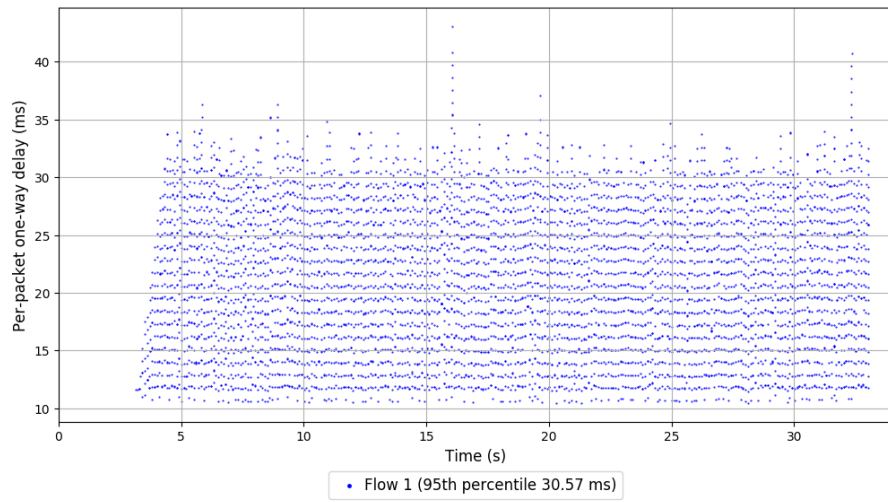
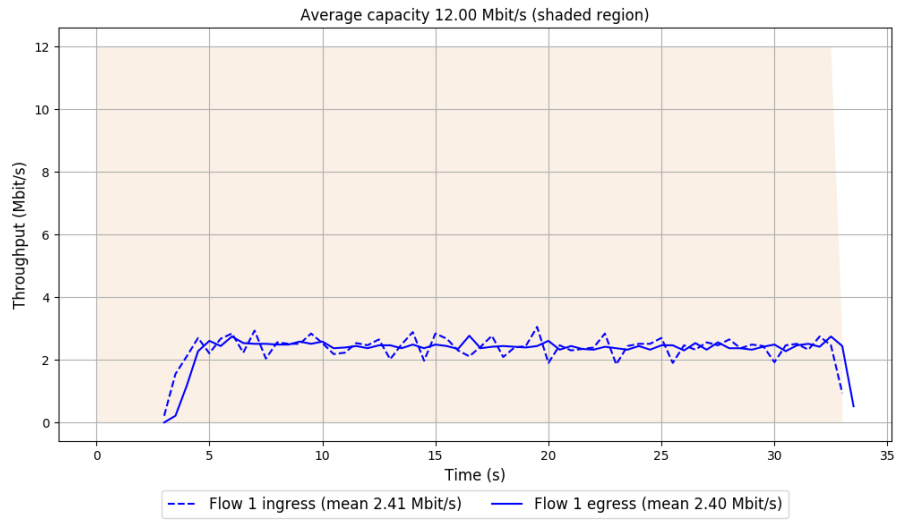
-- Flow 1:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 30.569 ms

Loss rate: 0.31%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-07-11 23:34:49

End at: 2019-07-11 23:35:19

Below is generated by plot.py at 2019-07-11 23:55:16

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 2.42 Mbit/s (20.1% utilization)

95th percentile per-packet one-way delay: 30.692 ms

Loss rate: 0.27%

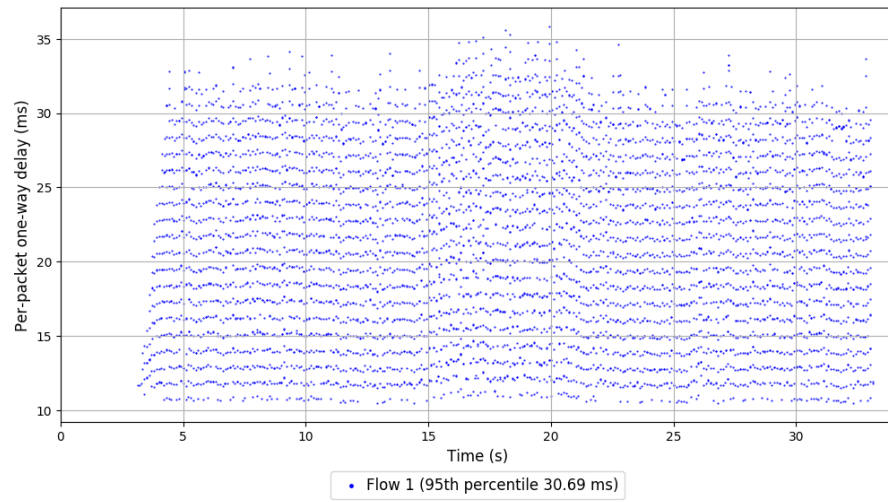
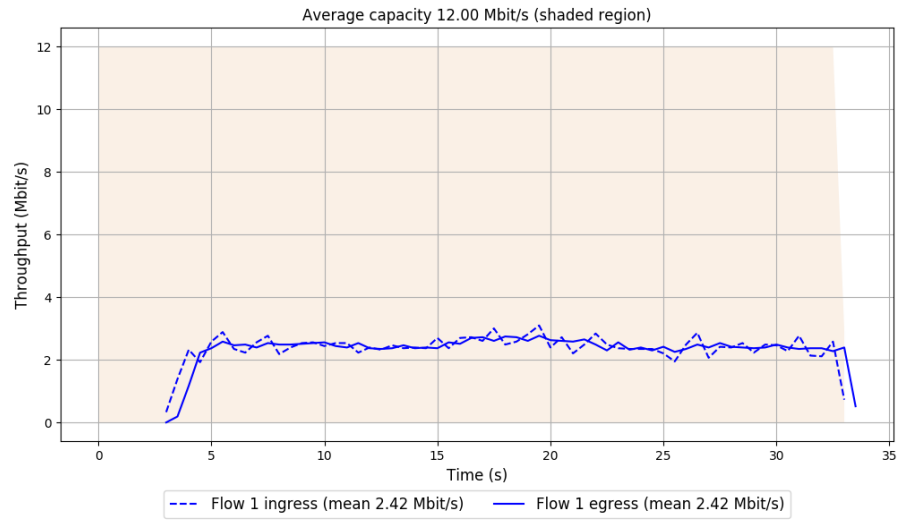
-- Flow 1:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 30.692 ms

Loss rate: 0.27%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-07-11 23:48:52

End at: 2019-07-11 23:49:22

Below is generated by plot.py at 2019-07-11 23:55:16

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 2.36 Mbit/s (19.7% utilization)

95th percentile per-packet one-way delay: 30.311 ms

Loss rate: 0.36%

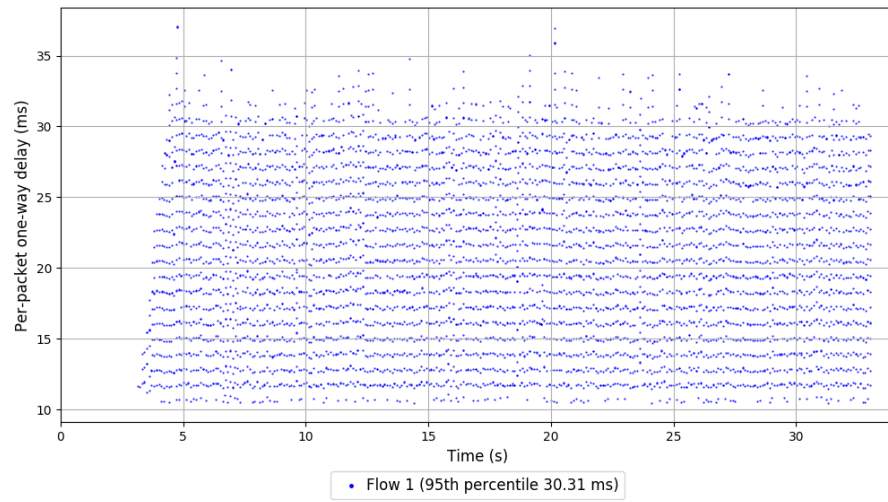
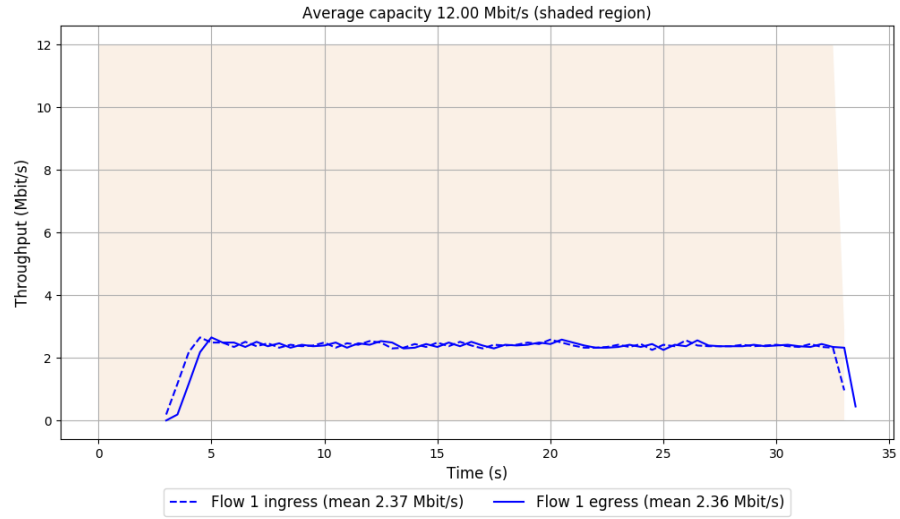
-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 30.311 ms

Loss rate: 0.36%

Run 3: Report of LEDBAT — Data Link



Run 1: Statistics of Muses_DecisionTree

Start at: 2019-07-11 23:24:16

End at: 2019-07-11 23:24:46

Below is generated by plot.py at 2019-07-11 23:55:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 4.19 Mbit/s (34.9% utilization)

95th percentile per-packet one-way delay: 43.987 ms

Loss rate: 0.13%

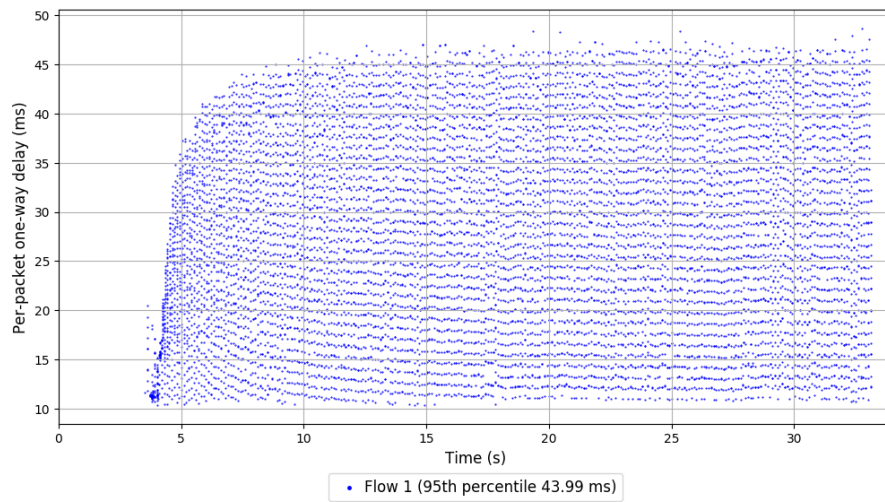
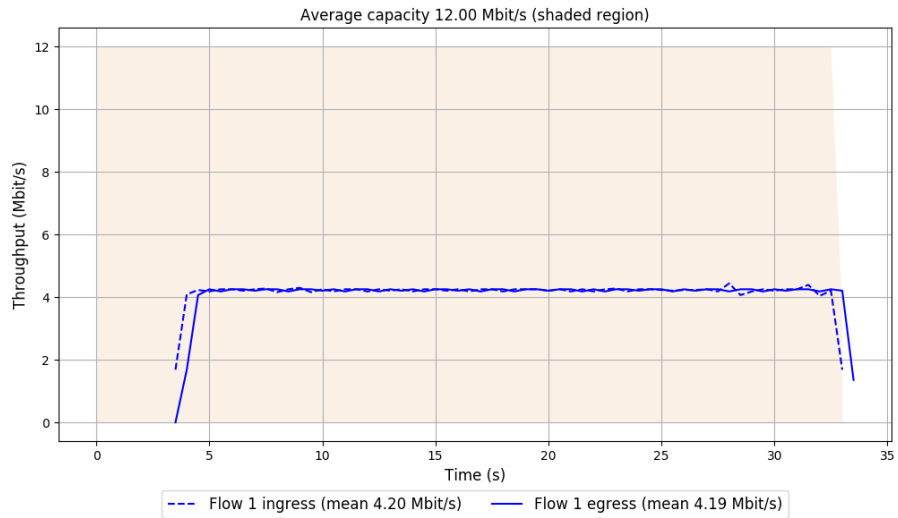
-- Flow 1:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: 43.987 ms

Loss rate: 0.13%

Run 1: Report of Muses_DecisionTree — Data Link



Run 2: Statistics of Muses_DecisionTree

Start at: 2019-07-11 23:38:20

End at: 2019-07-11 23:38:50

Below is generated by plot.py at 2019-07-11 23:55:22

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 4.19 Mbit/s (35.0% utilization)

95th percentile per-packet one-way delay: 44.134 ms

Loss rate: 0.21%

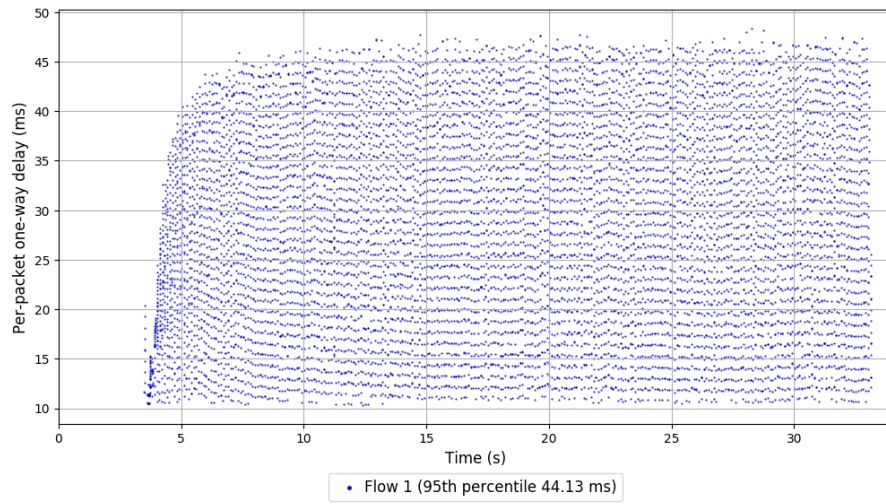
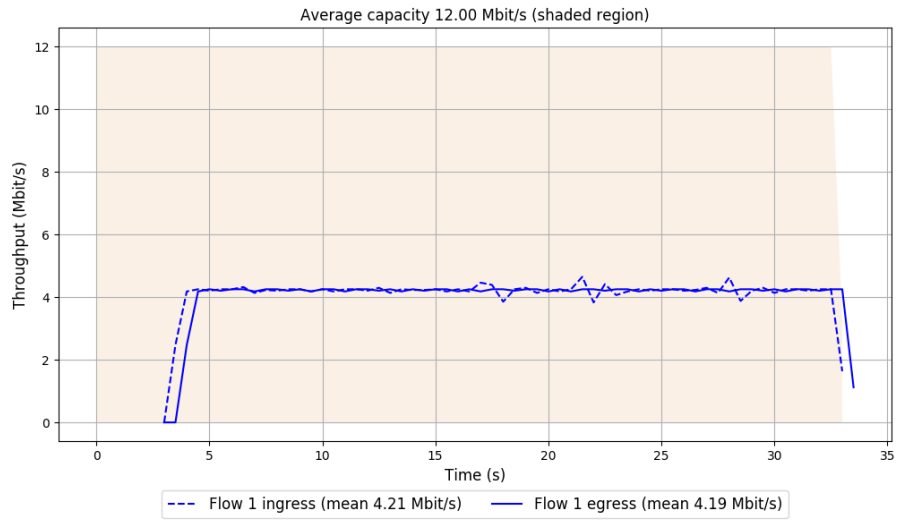
-- Flow 1:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: 44.134 ms

Loss rate: 0.21%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

Start at: 2019-07-11 23:52:23

End at: 2019-07-11 23:52:53

Below is generated by plot.py at 2019-07-11 23:55:24

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 4.19 Mbit/s (34.9% utilization)

95th percentile per-packet one-way delay: 44.051 ms

Loss rate: 0.09%

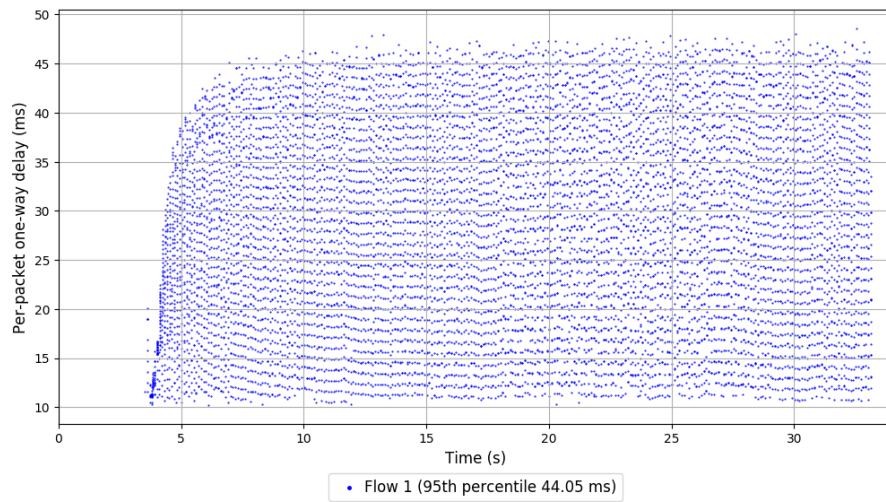
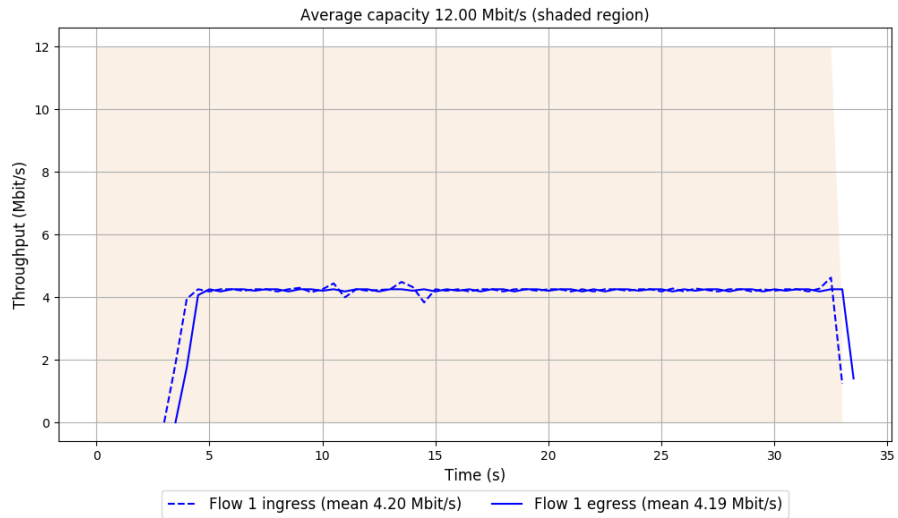
-- Flow 1:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: 44.051 ms

Loss rate: 0.09%

Run 3: Report of Muses_DecisionTree — Data Link



Run 1: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-11 23:16:40

End at: 2019-07-11 23:17:10

Below is generated by plot.py at 2019-07-11 23:55:26

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 4.20 Mbit/s (35.0% utilization)

95th percentile per-packet one-way delay: 44.233 ms

Loss rate: 0.35%

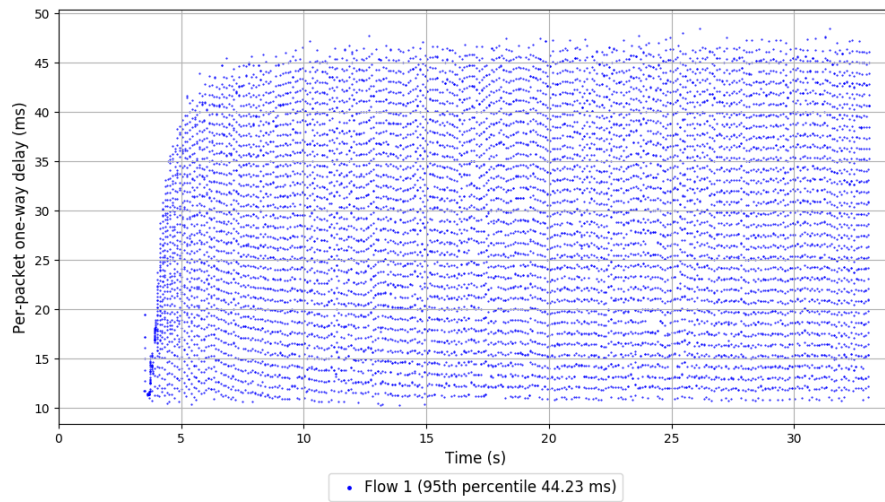
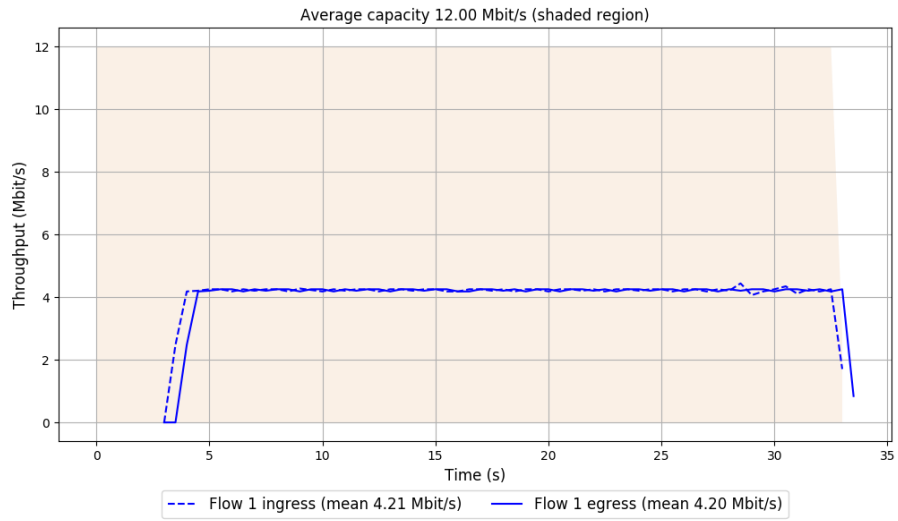
-- Flow 1:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 44.233 ms

Loss rate: 0.35%

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-11 23:30:43

End at: 2019-07-11 23:31:13

Below is generated by plot.py at 2019-07-11 23:55:29

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 4.19 Mbit/s (34.9% utilization)

95th percentile per-packet one-way delay: 44.268 ms

Loss rate: 0.12%

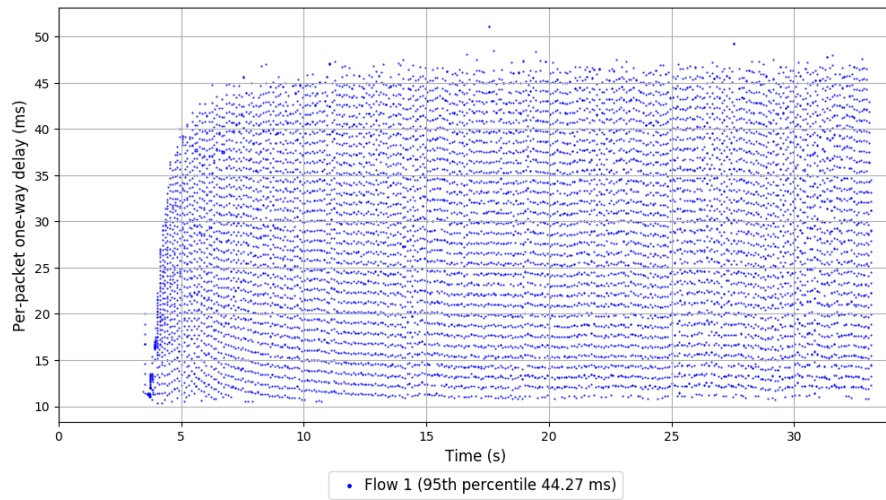
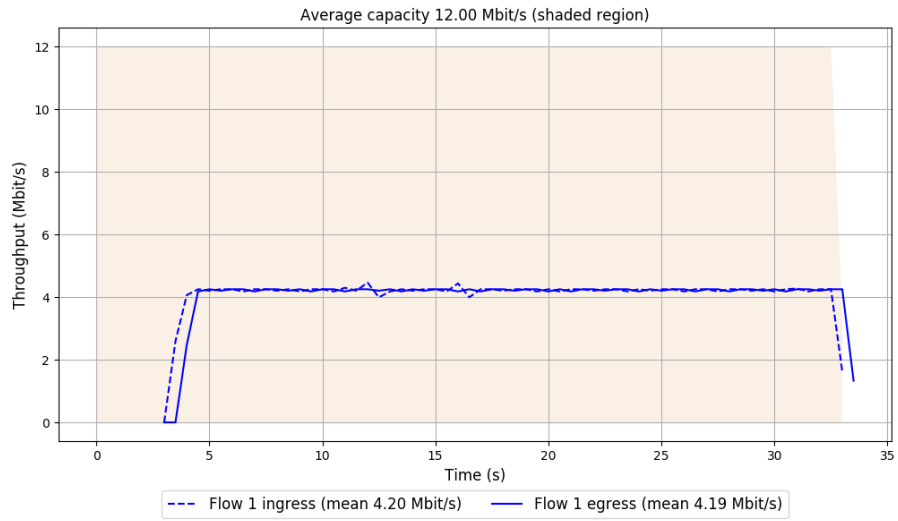
-- Flow 1:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: 44.268 ms

Loss rate: 0.12%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-11 23:44:47

End at: 2019-07-11 23:45:17

Below is generated by plot.py at 2019-07-11 23:55:29

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 4.19 Mbit/s (35.0% utilization)

95th percentile per-packet one-way delay: 44.096 ms

Loss rate: 0.16%

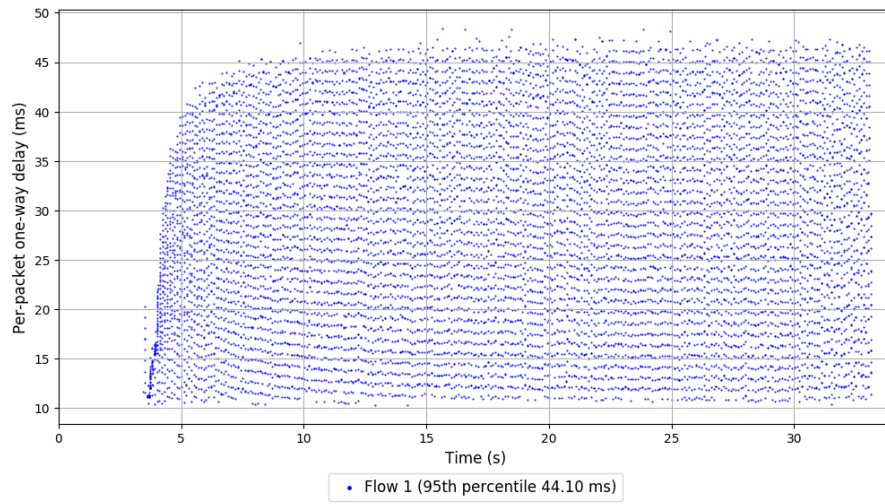
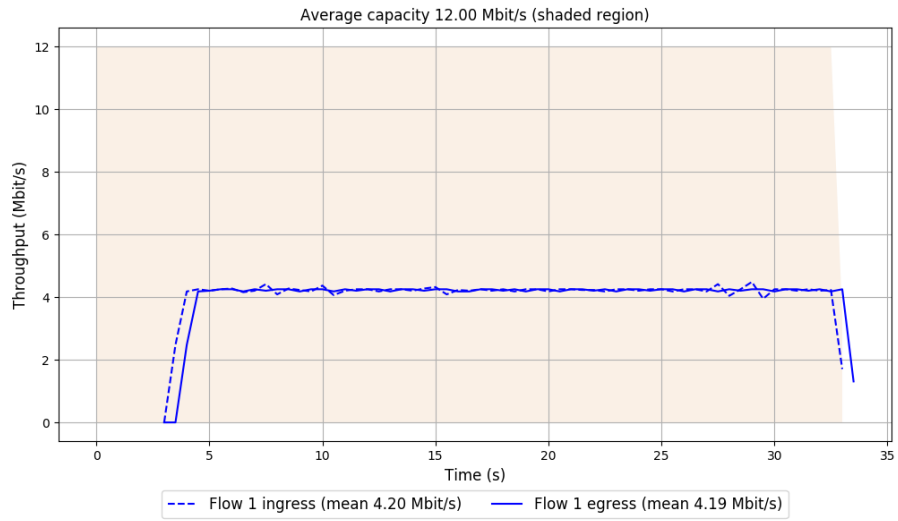
-- Flow 1:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: 44.096 ms

Loss rate: 0.16%

Run 3: Report of Muses_DecisionTreeH0 — Data Link



Run 1: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-11 23:23:41

End at: 2019-07-11 23:24:11

Below is generated by plot.py at 2019-07-11 23:55:30

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 4.19 Mbit/s (34.9% utilization)

95th percentile per-packet one-way delay: 44.096 ms

Loss rate: 0.09%

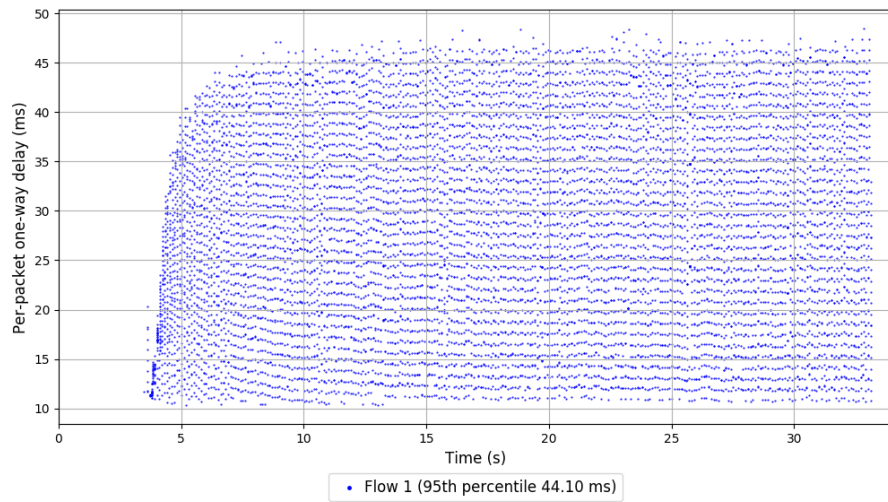
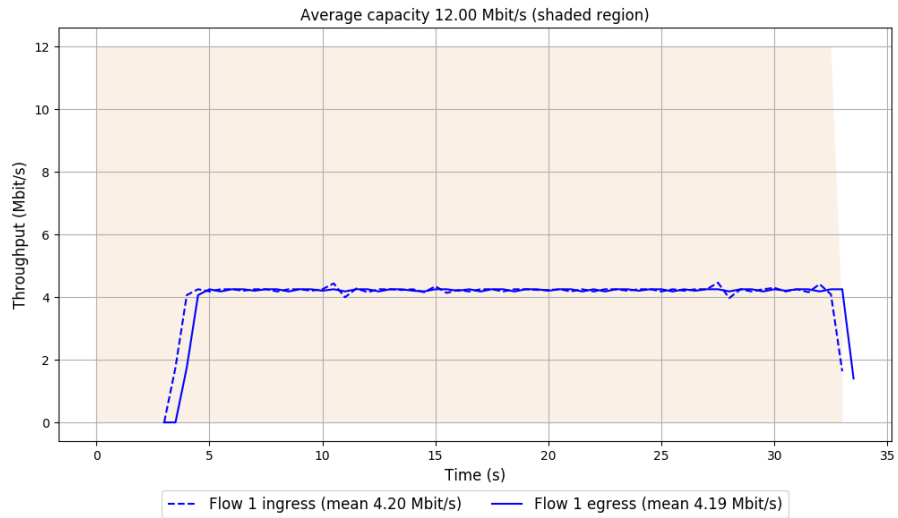
-- Flow 1:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: 44.096 ms

Loss rate: 0.09%

Run 1: Report of Muses_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-11 23:37:45

End at: 2019-07-11 23:38:15

Below is generated by plot.py at 2019-07-11 23:55:31

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 4.19 Mbit/s (34.9% utilization)

95th percentile per-packet one-way delay: 44.176 ms

Loss rate: 0.17%

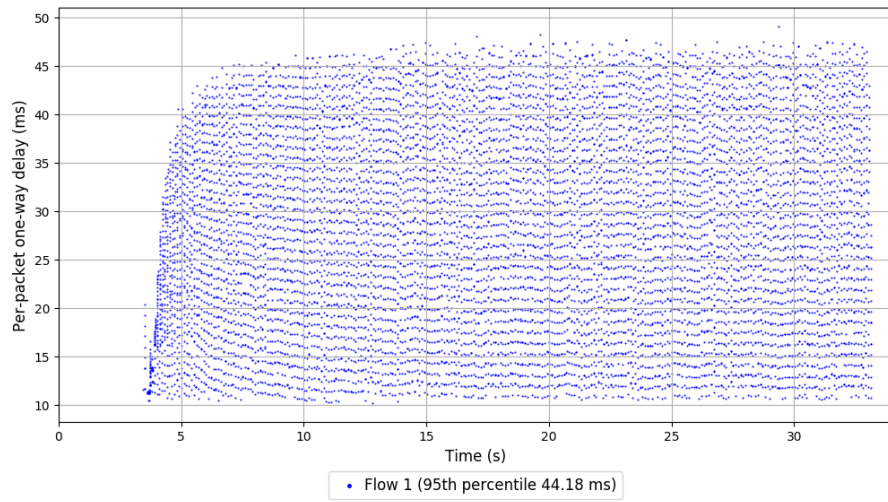
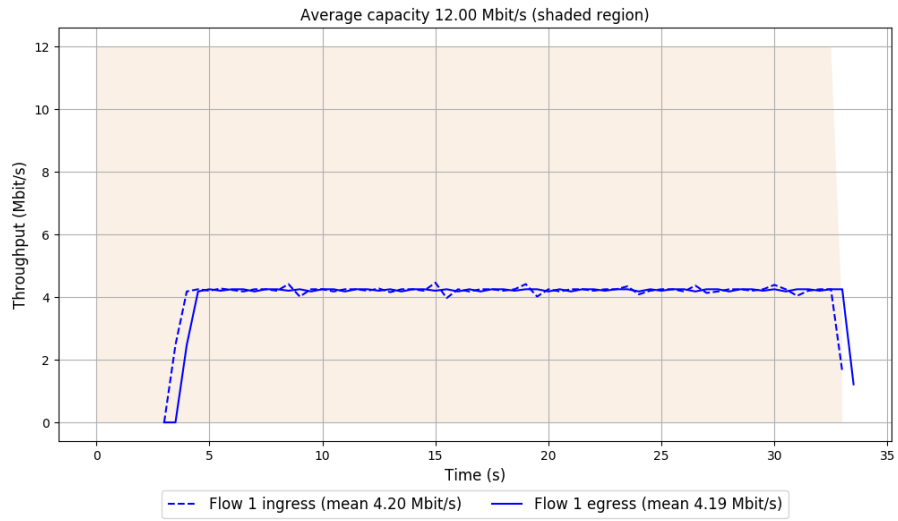
-- Flow 1:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: 44.176 ms

Loss rate: 0.17%

Run 2: Report of Muses_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-11 23:51:48

End at: 2019-07-11 23:52:18

Below is generated by plot.py at 2019-07-11 23:55:33

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 4.20 Mbit/s (35.0% utilization)

95th percentile per-packet one-way delay: 44.052 ms

Loss rate: 0.14%

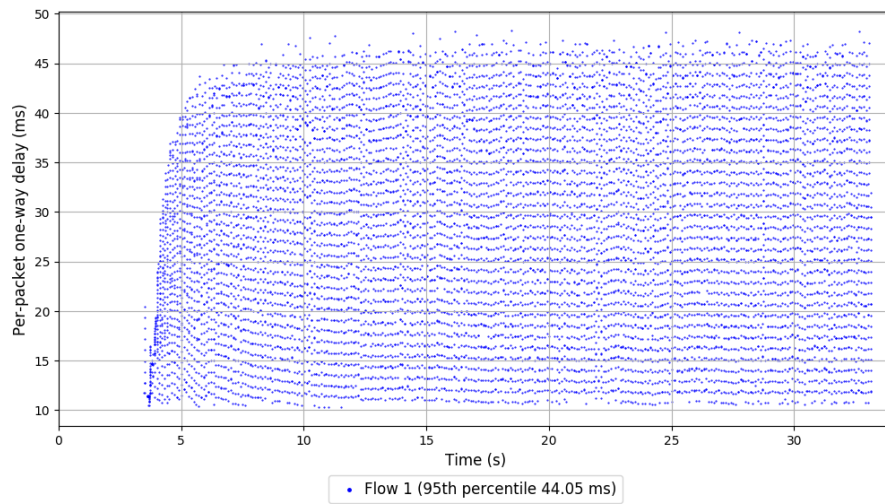
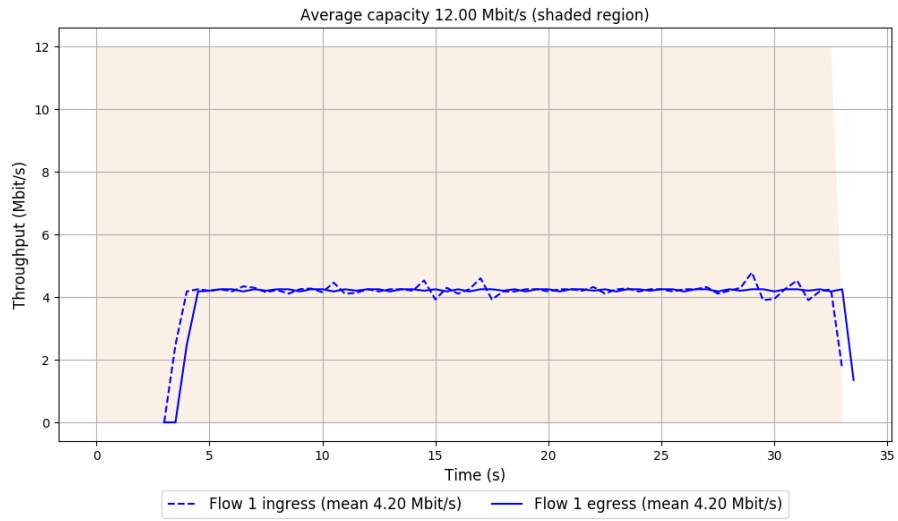
-- Flow 1:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 44.052 ms

Loss rate: 0.14%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-07-11 23:24:52

End at: 2019-07-11 23:25:22

Below is generated by plot.py at 2019-07-11 23:55:36

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 3.90 Mbit/s (32.5% utilization)

95th percentile per-packet one-way delay: 12.276 ms

Loss rate: 0.04%

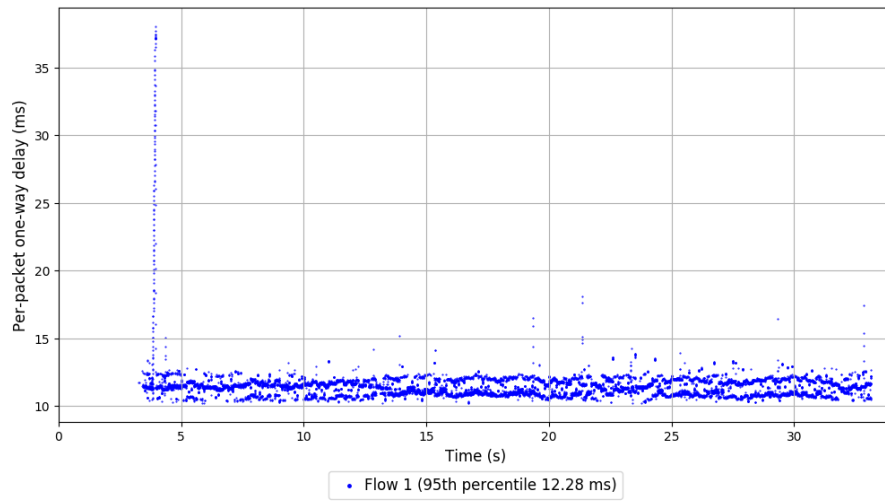
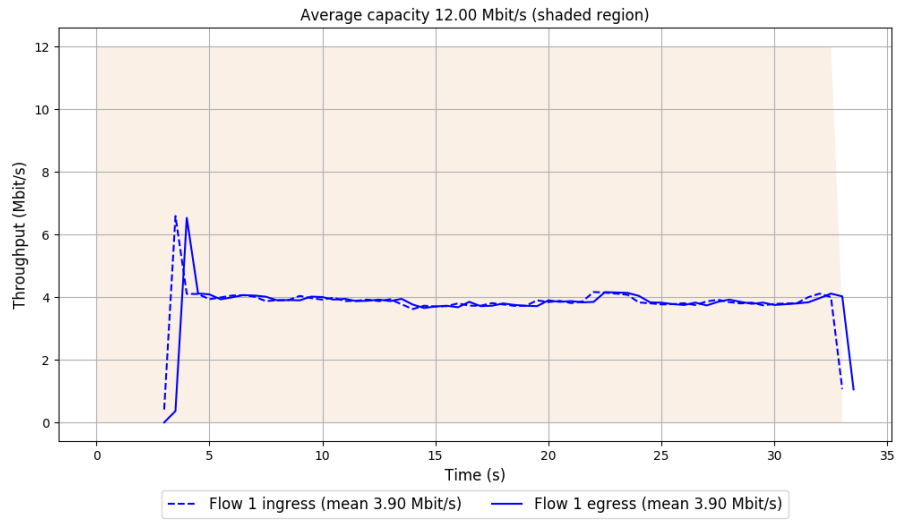
-- Flow 1:

Average throughput: 3.90 Mbit/s

95th percentile per-packet one-way delay: 12.276 ms

Loss rate: 0.04%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-07-11 23:38:55

End at: 2019-07-11 23:39:25

Below is generated by plot.py at 2019-07-11 23:55:39

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 4.43 Mbit/s (36.9% utilization)

95th percentile per-packet one-way delay: 12.226 ms

Loss rate: 0.04%

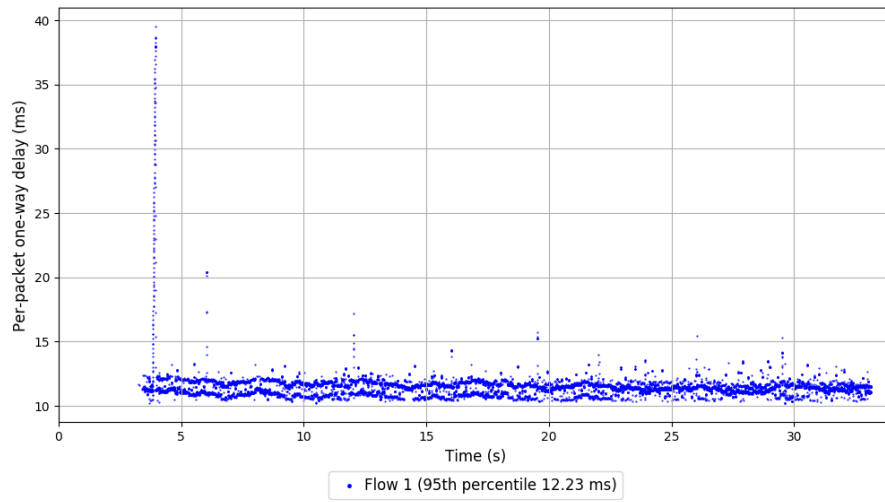
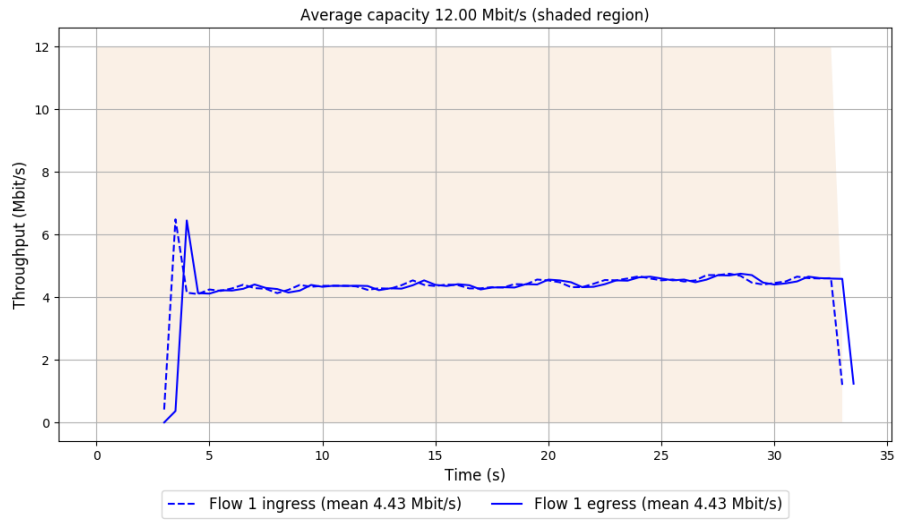
-- Flow 1:

Average throughput: 4.43 Mbit/s

95th percentile per-packet one-way delay: 12.226 ms

Loss rate: 0.04%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-07-11 23:52:58

End at: 2019-07-11 23:53:28

Below is generated by plot.py at 2019-07-11 23:55:49

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 8.51 Mbit/s (70.9% utilization)

95th percentile per-packet one-way delay: 166.135 ms

Loss rate: 0.04%

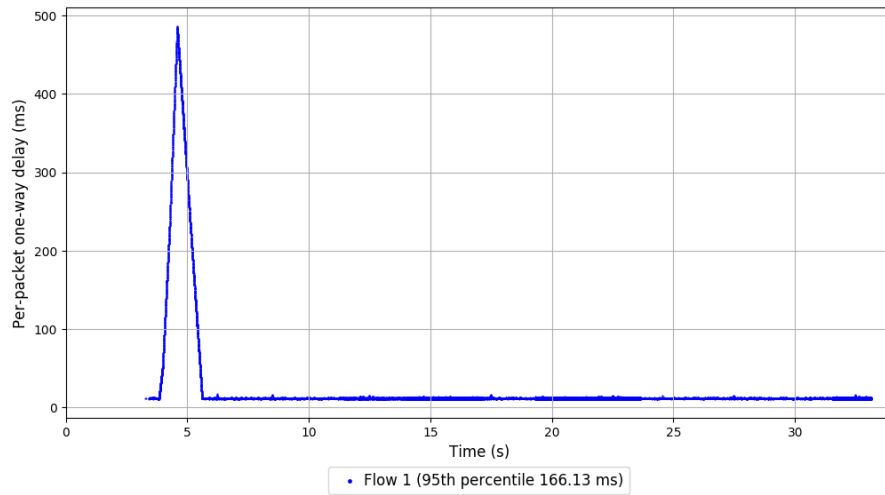
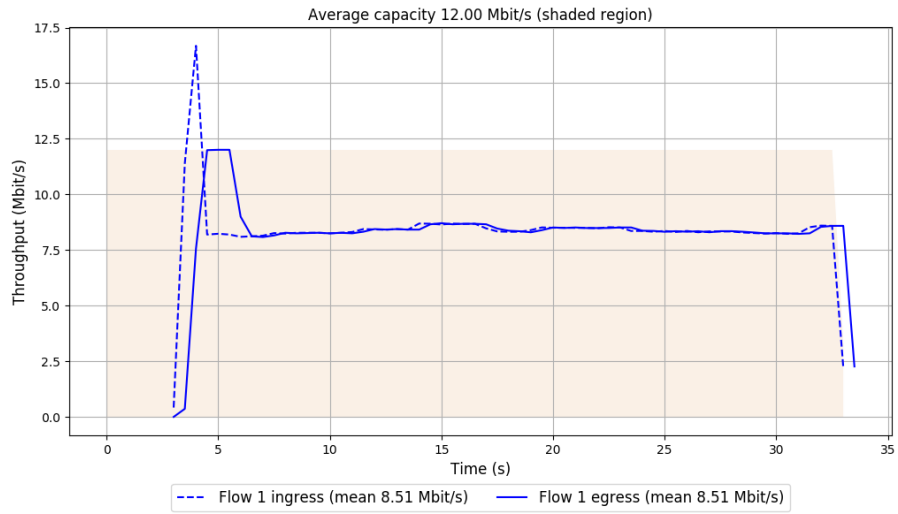
-- Flow 1:

Average throughput: 8.51 Mbit/s

95th percentile per-packet one-way delay: 166.135 ms

Loss rate: 0.04%

Run 3: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-07-11 23:13:43

End at: 2019-07-11 23:14:13

Below is generated by plot.py at 2019-07-11 23:55:51

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: 13.008 ms

Loss rate: 0.04%

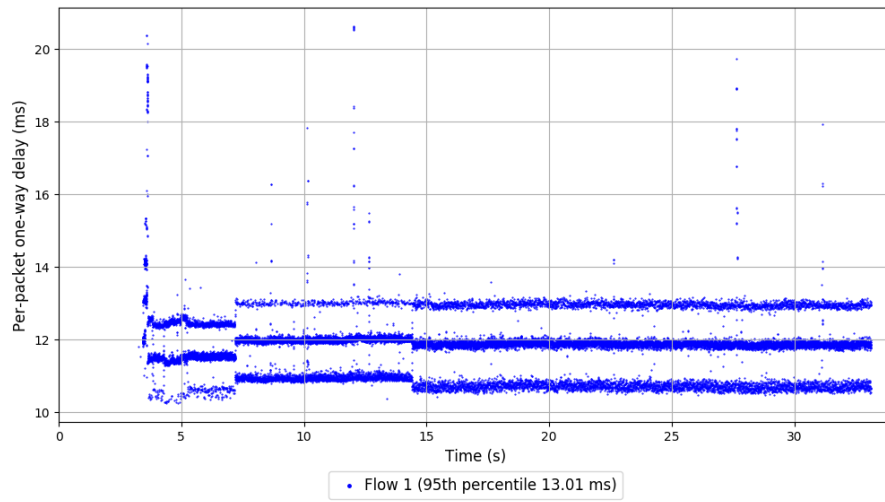
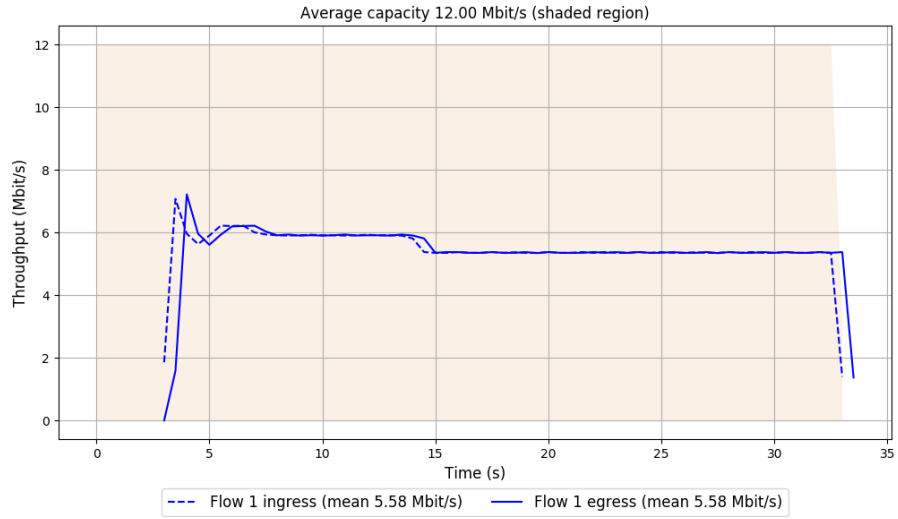
-- Flow 1:

Average throughput: 5.58 Mbit/s

95th percentile per-packet one-way delay: 13.008 ms

Loss rate: 0.04%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-07-11 23:27:47

End at: 2019-07-11 23:28:17

Below is generated by plot.py at 2019-07-11 23:55:52

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 5.88 Mbit/s (49.0% utilization)

95th percentile per-packet one-way delay: 12.576 ms

Loss rate: 0.04%

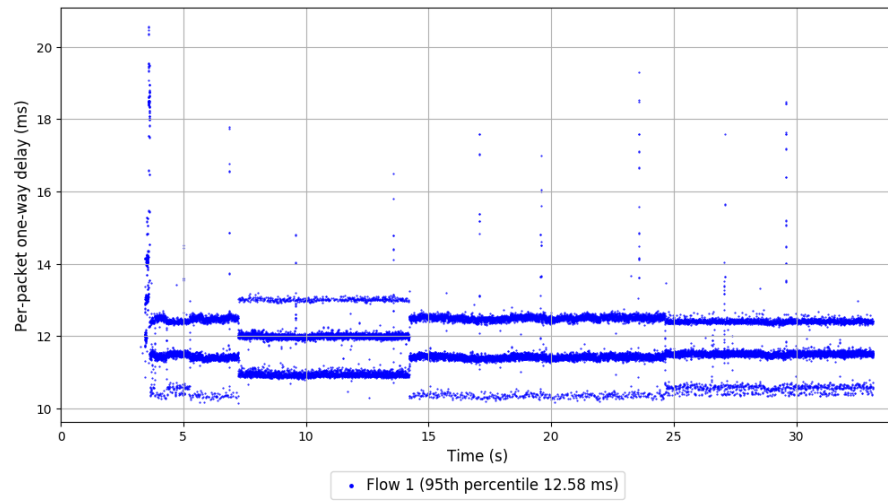
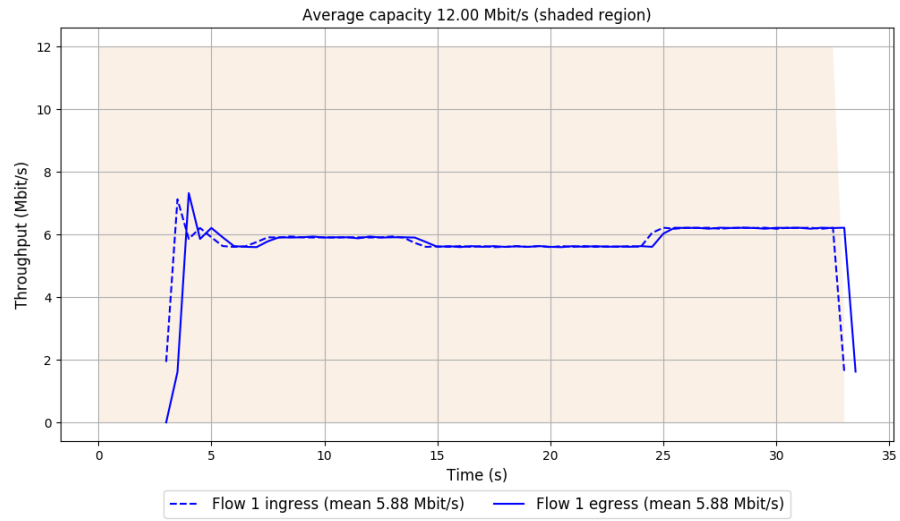
-- Flow 1:

Average throughput: 5.88 Mbit/s

95th percentile per-packet one-way delay: 12.576 ms

Loss rate: 0.04%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-07-11 23:41:50

End at: 2019-07-11 23:42:20

Below is generated by plot.py at 2019-07-11 23:55:53

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 5.55 Mbit/s (46.2% utilization)

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

Loss rate: 0.03%

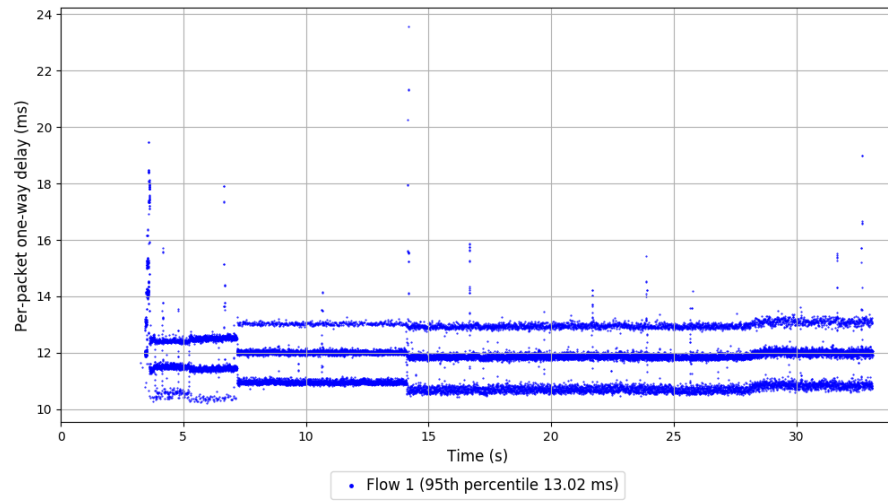
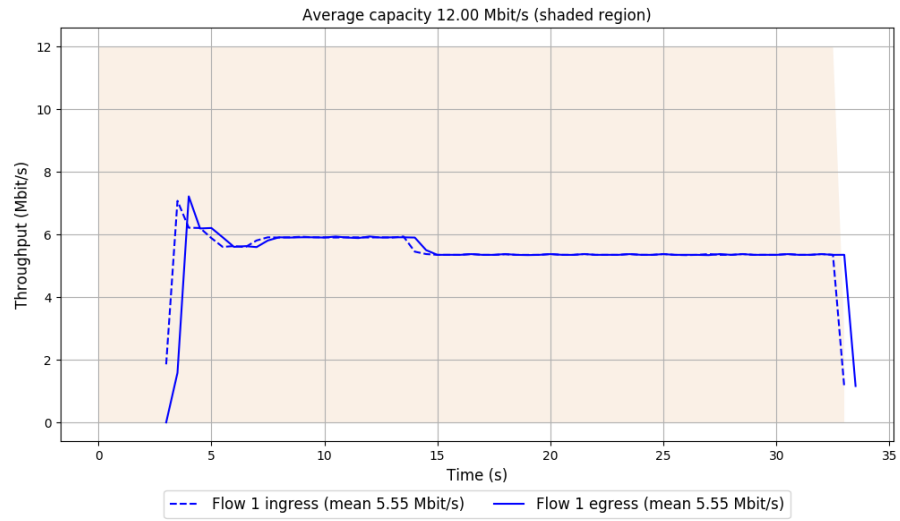
-- Flow 1:

Average throughput: 5.55 Mbit/s

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

Loss rate: 0.03%

Run 3: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-07-11 23:11:58

End at: 2019-07-11 23:12:28

Below is generated by plot.py at 2019-07-11 23:55:53

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: 12.192 ms

Loss rate: 0.05%

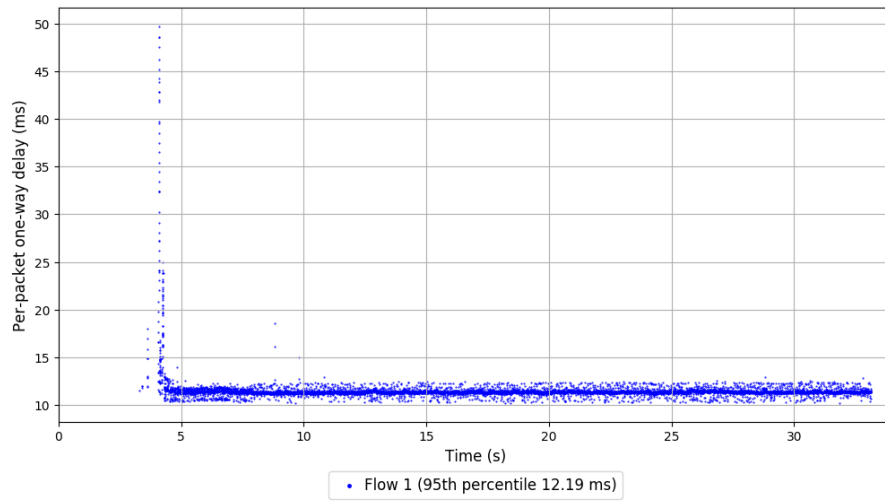
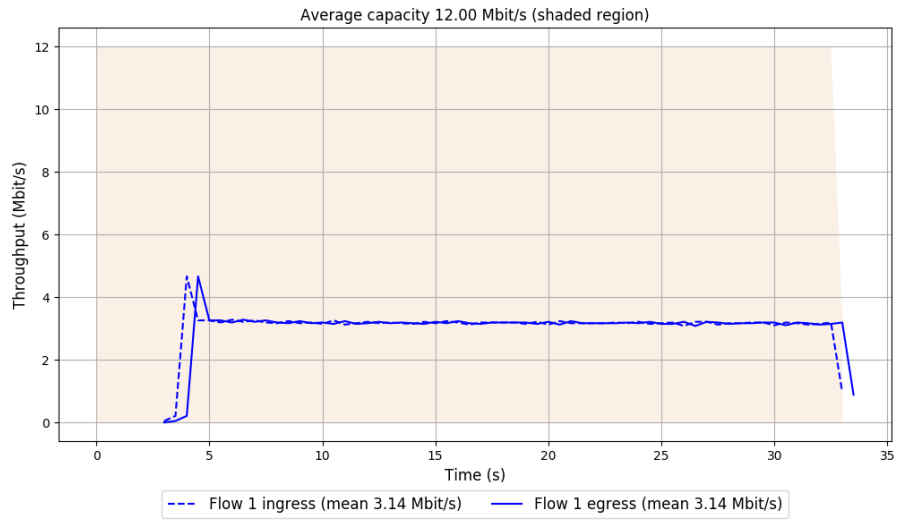
-- Flow 1:

Average throughput: 3.14 Mbit/s

95th percentile per-packet one-way delay: 12.192 ms

Loss rate: 0.05%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-07-11 23:26:02

End at: 2019-07-11 23:26:32

Below is generated by plot.py at 2019-07-11 23:55:53

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 3.12 Mbit/s (26.0% utilization)

95th percentile per-packet one-way delay: 12.106 ms

Loss rate: 0.05%

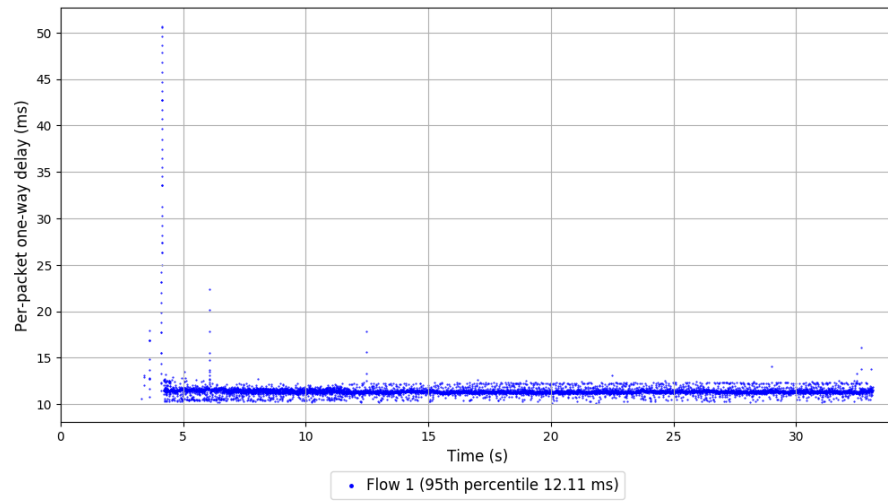
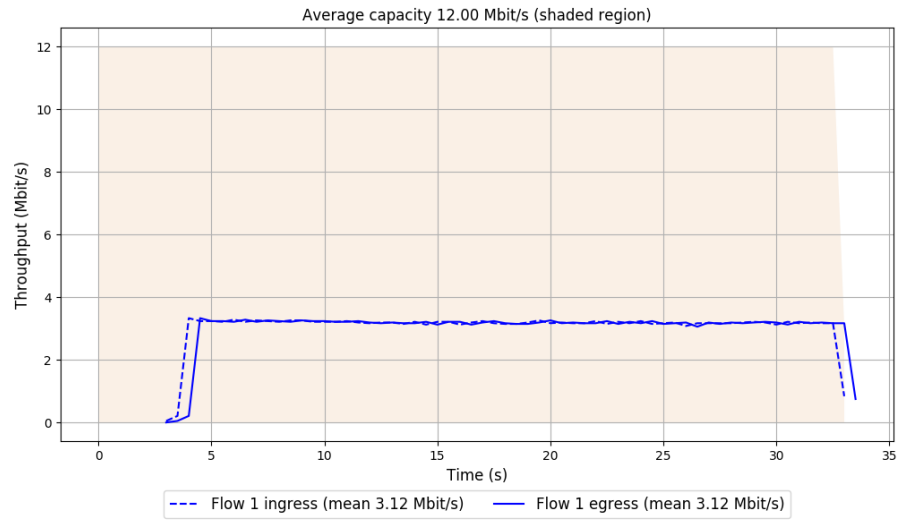
-- Flow 1:

Average throughput: 3.12 Mbit/s

95th percentile per-packet one-way delay: 12.106 ms

Loss rate: 0.05%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-07-11 23:40:05

End at: 2019-07-11 23:40:35

Below is generated by plot.py at 2019-07-11 23:55:53

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: 12.239 ms

Loss rate: 0.06%

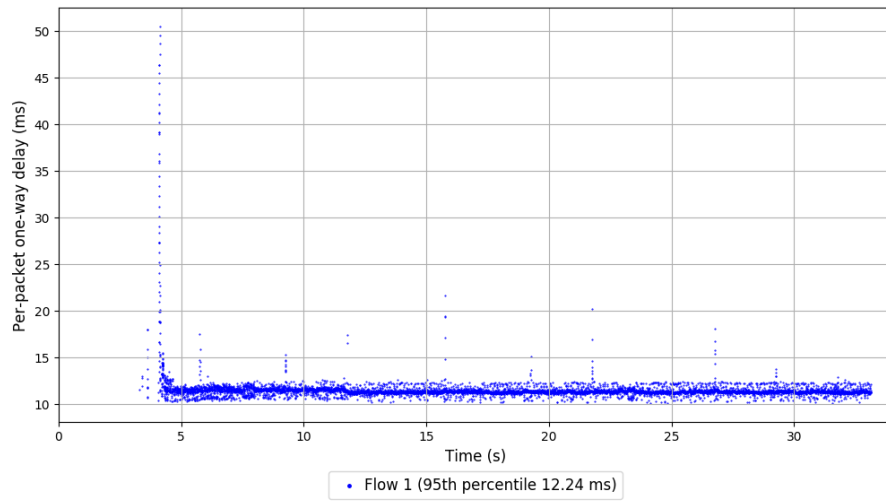
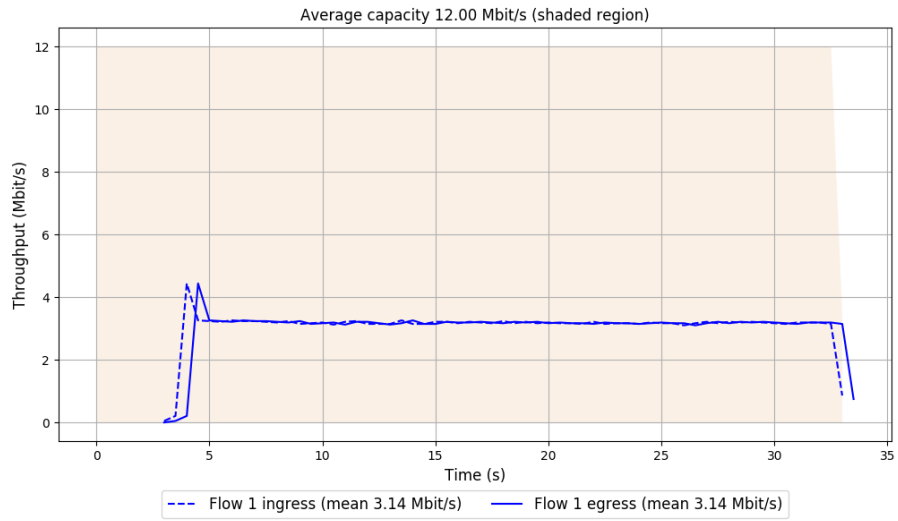
-- Flow 1:

Average throughput: 3.14 Mbit/s

95th percentile per-packet one-way delay: 12.239 ms

Loss rate: 0.06%

Run 3: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2019-07-11 23:13:08

End at: 2019-07-11 23:13:38

Below is generated by plot.py at 2019-07-11 23:55:53

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: 11.748 ms

Loss rate: 0.13%

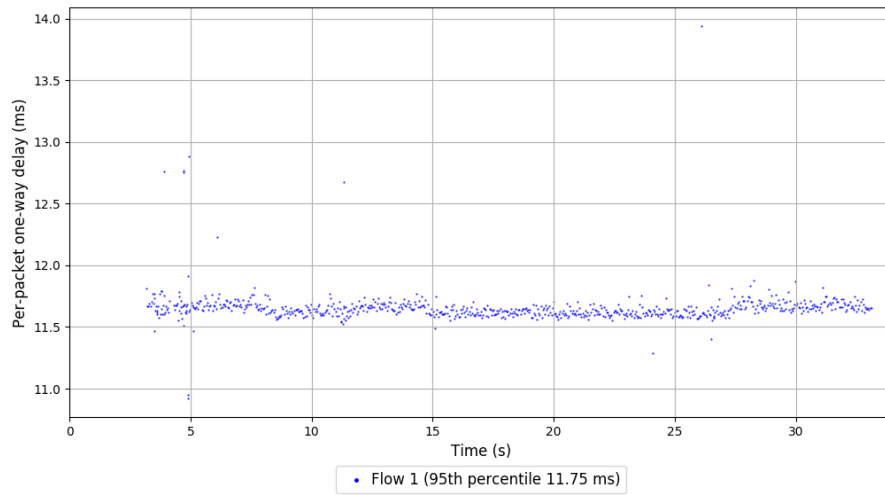
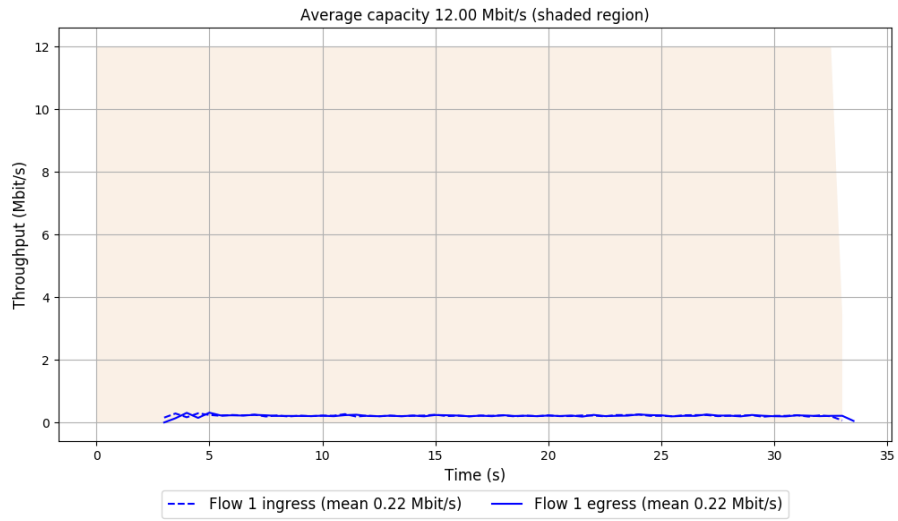
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 11.748 ms

Loss rate: 0.13%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-07-11 23:27:12

End at: 2019-07-11 23:27:42

Below is generated by plot.py at 2019-07-11 23:55:53

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: 11.750 ms

Loss rate: 0.13%

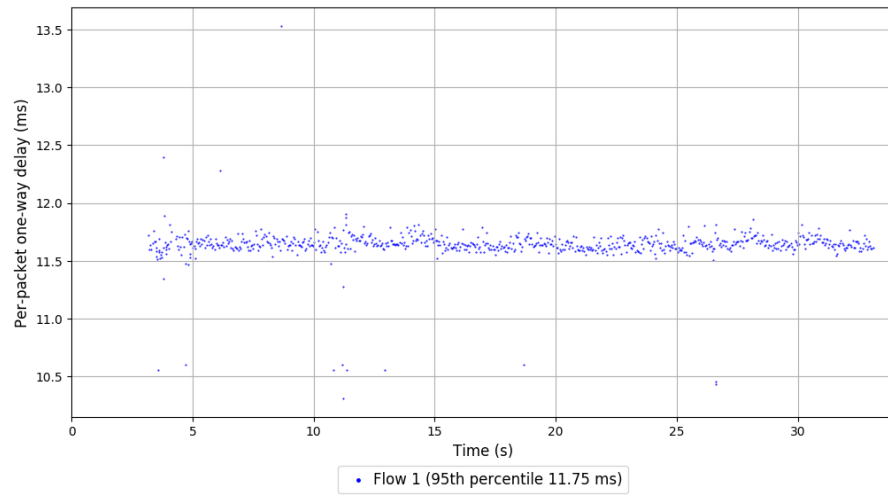
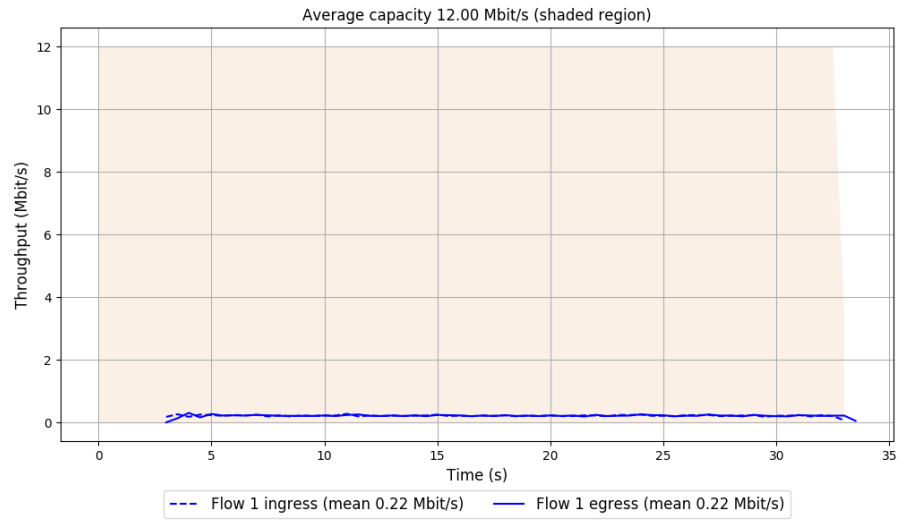
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.13%

Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-07-11 23:41:15

End at: 2019-07-11 23:41:45

Below is generated by plot.py at 2019-07-11 23:55:54

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: 11.686 ms

Loss rate: 0.00%

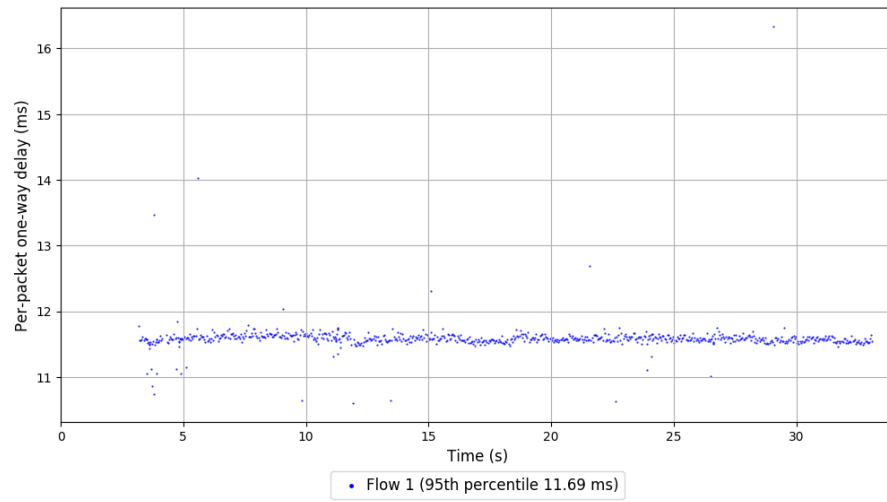
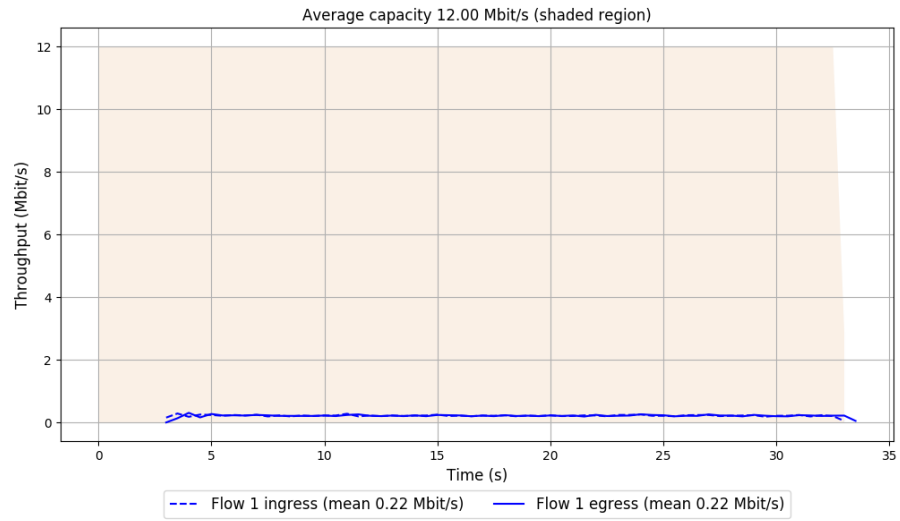
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 11.686 ms

Loss rate: 0.00%

Run 3: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-07-11 23:14:54

End at: 2019-07-11 23:15:24

Below is generated by plot.py at 2019-07-11 23:56:12

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.30 Mbit/s (94.2% utilization)

95th percentile per-packet one-way delay: 79.604 ms

Loss rate: 0.20%

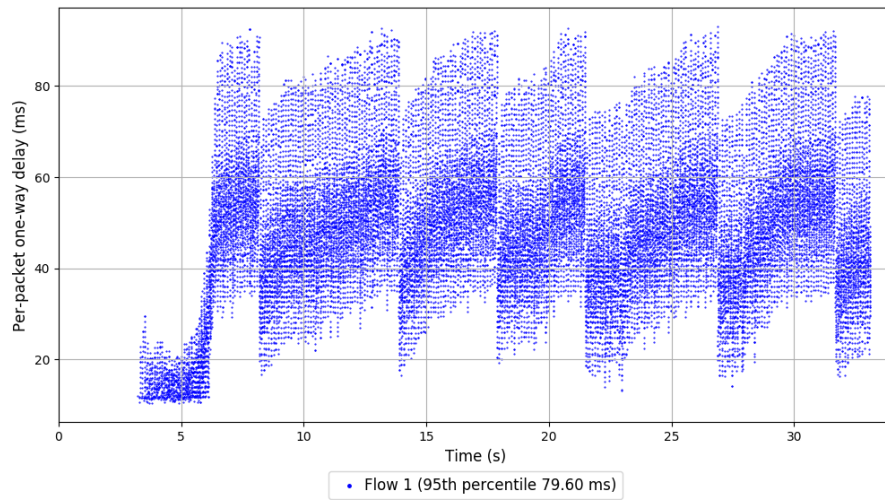
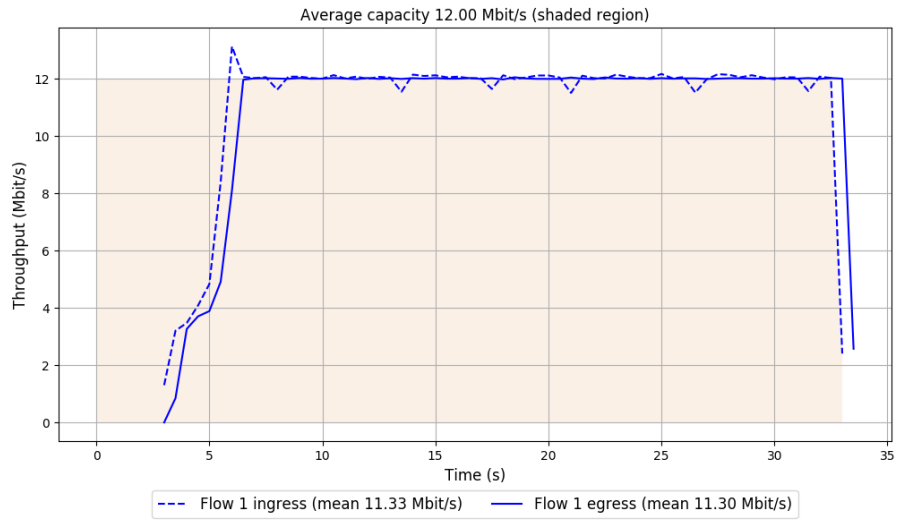
-- Flow 1:

Average throughput: 11.30 Mbit/s

95th percentile per-packet one-way delay: 79.604 ms

Loss rate: 0.20%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-07-11 23:28:58

End at: 2019-07-11 23:29:28

Below is generated by plot.py at 2019-07-11 23:56:12

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.68 Mbit/s (89.0% utilization)

95th percentile per-packet one-way delay: 77.812 ms

Loss rate: 0.17%

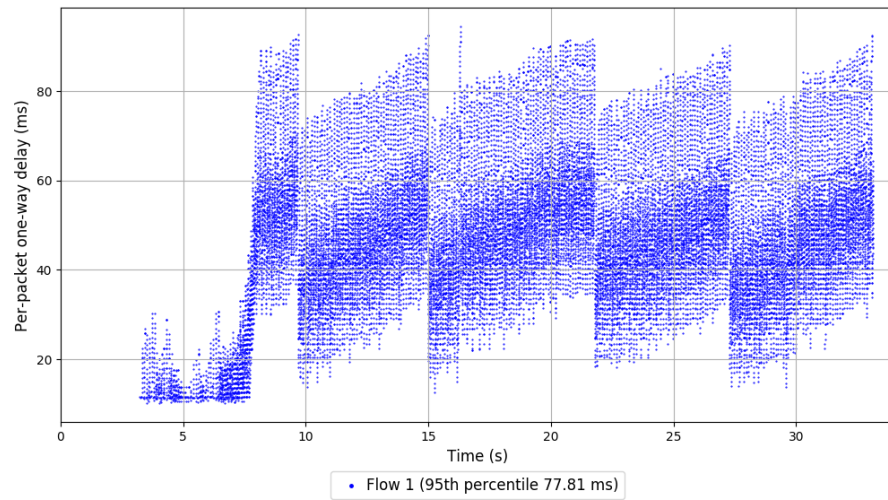
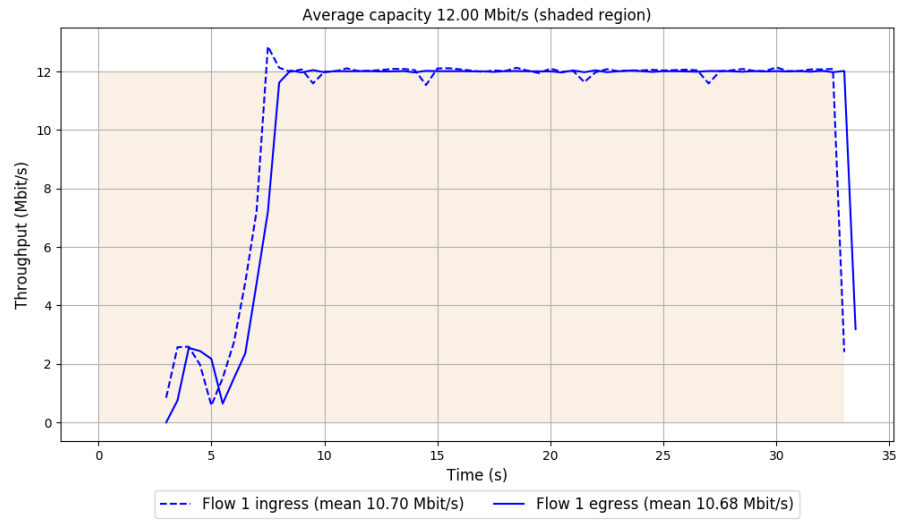
-- Flow 1:

Average throughput: 10.68 Mbit/s

95th percentile per-packet one-way delay: 77.812 ms

Loss rate: 0.17%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-07-11 23:43:01

End at: 2019-07-11 23:43:31

Below is generated by plot.py at 2019-07-11 23:56:12

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.46 Mbit/s (87.2% utilization)

95th percentile per-packet one-way delay: 78.995 ms

Loss rate: 0.12%

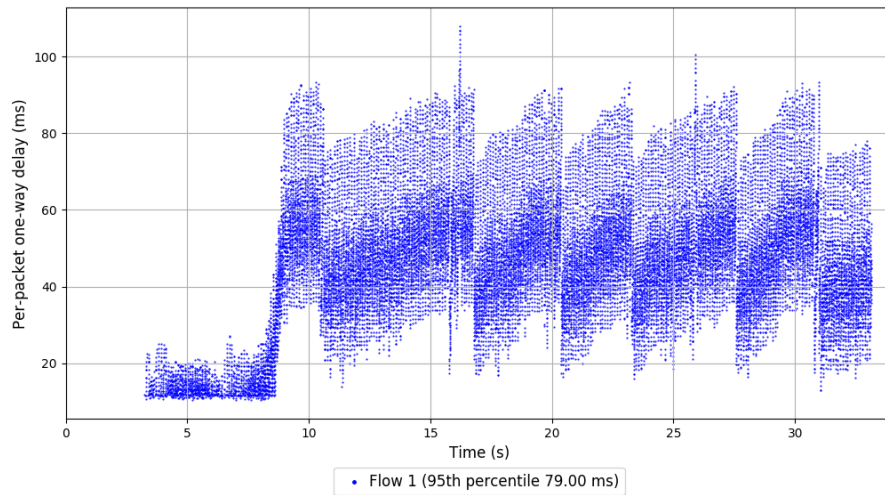
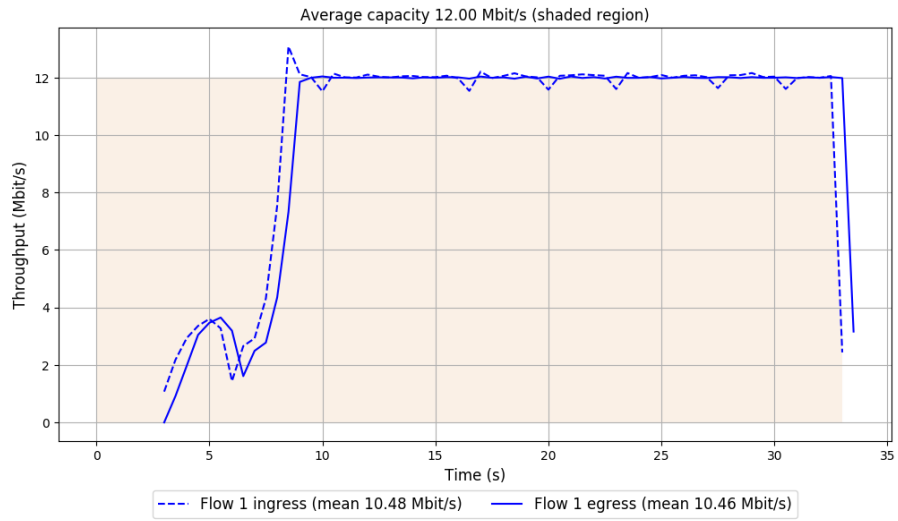
-- Flow 1:

Average throughput: 10.46 Mbit/s

95th percentile per-packet one-way delay: 78.995 ms

Loss rate: 0.12%

Run 3: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-07-11 23:21:20

End at: 2019-07-11 23:21:50

Below is generated by plot.py at 2019-07-11 23:56:12

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: 13.138 ms

Loss rate: 0.04%

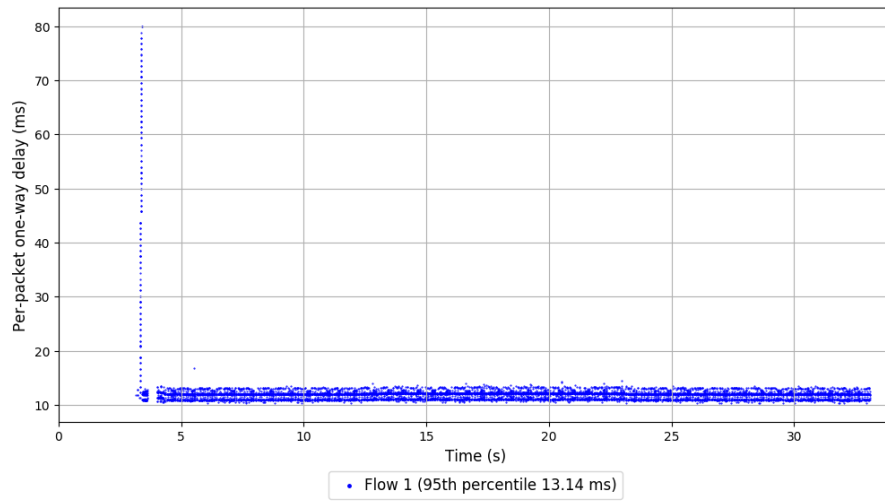
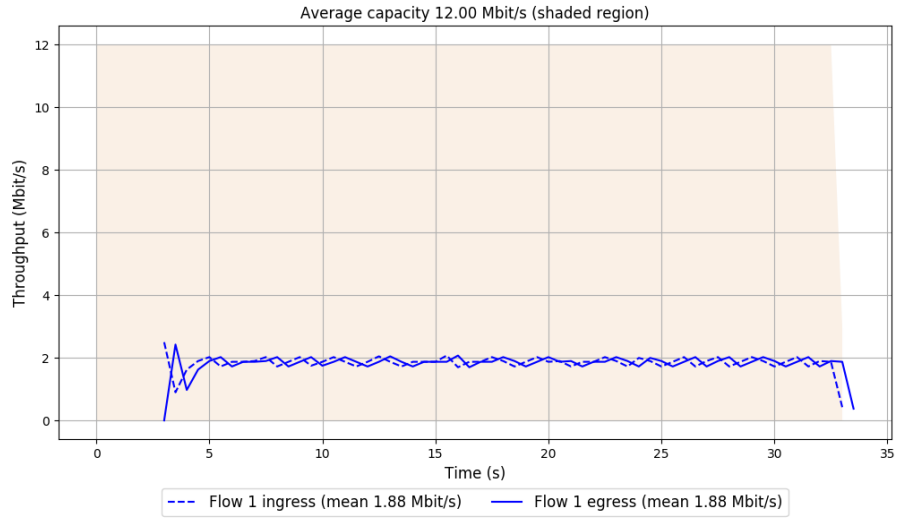
-- Flow 1:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 13.138 ms

Loss rate: 0.04%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-07-11 23:35:24

End at: 2019-07-11 23:35:54

Below is generated by plot.py at 2019-07-11 23:56:12

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: 30.150 ms

Loss rate: 0.04%

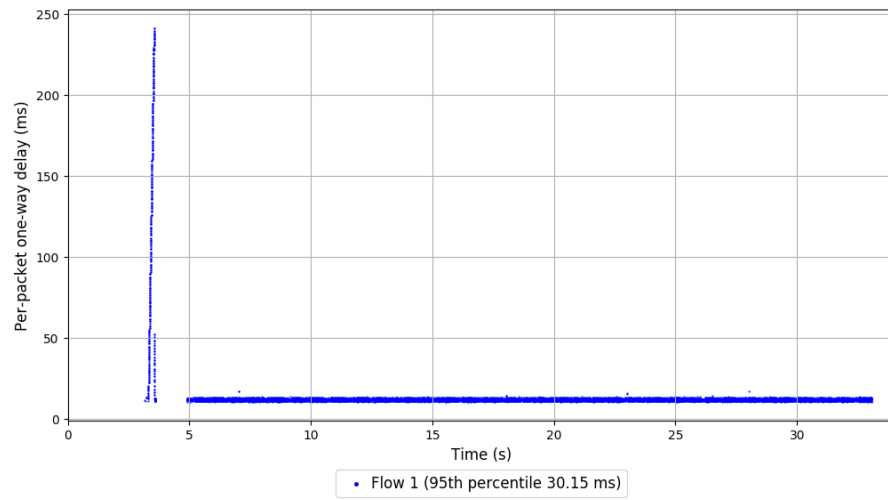
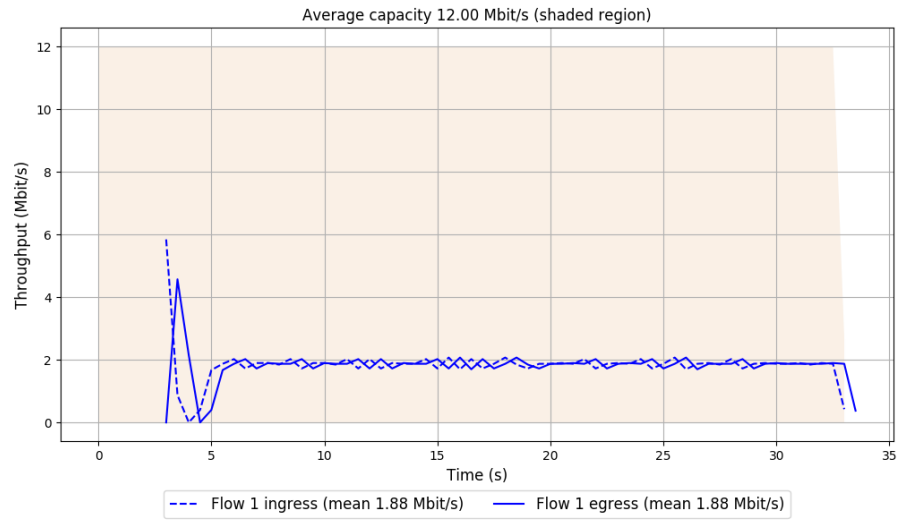
-- Flow 1:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 30.150 ms

Loss rate: 0.04%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-07-11 23:49:27

End at: 2019-07-11 23:49:57

Below is generated by plot.py at 2019-07-11 23:56:12

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.88 Mbit/s (15.7% utilization)

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

Loss rate: 0.00%

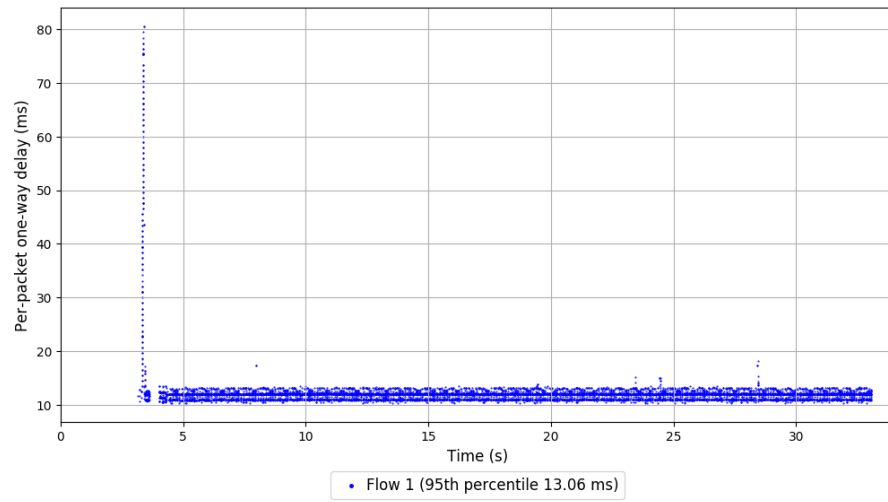
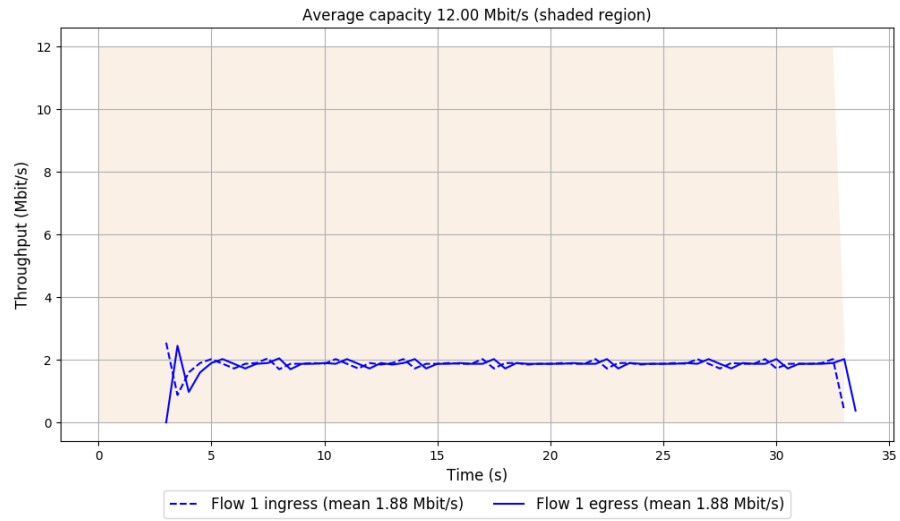
-- Flow 1:

Average throughput: 1.88 Mbit/s

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

Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-07-11 23:16:05

End at: 2019-07-11 23:16:35

Below is generated by plot.py at 2019-07-11 23:56:12

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 3.78 Mbit/s (31.5% utilization)

95th percentile per-packet one-way delay: 13.136 ms

Loss rate: 0.06%

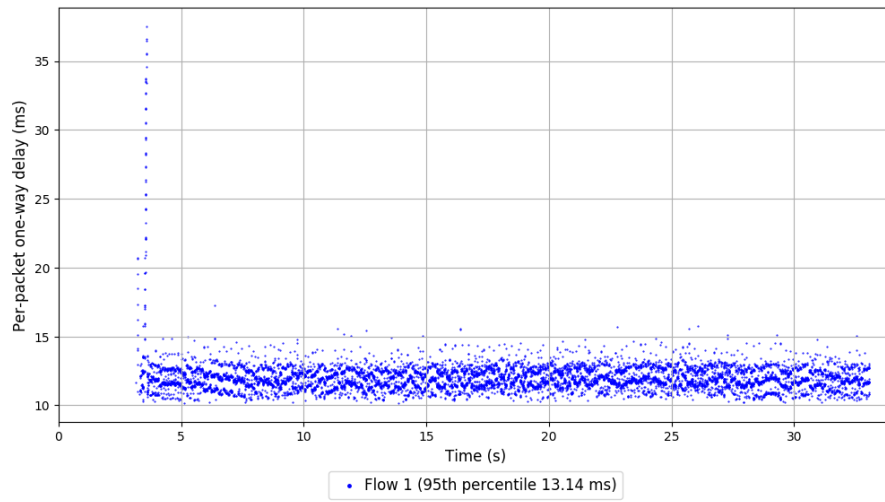
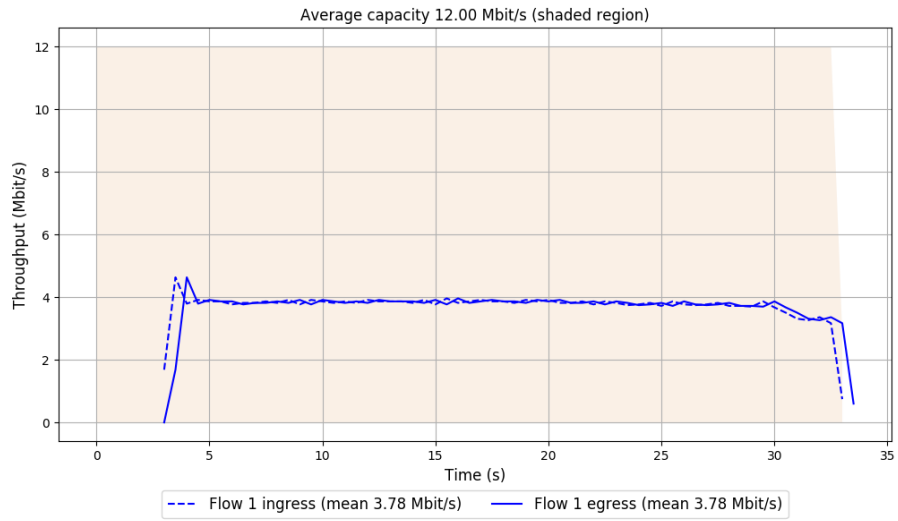
-- Flow 1:

Average throughput: 3.78 Mbit/s

95th percentile per-packet one-way delay: 13.136 ms

Loss rate: 0.06%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-07-11 23:30:08

End at: 2019-07-11 23:30:38

Below is generated by plot.py at 2019-07-11 23:56:12

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 3.08 Mbit/s (25.7% utilization)

95th percentile per-packet one-way delay: 13.095 ms

Loss rate: 0.00%

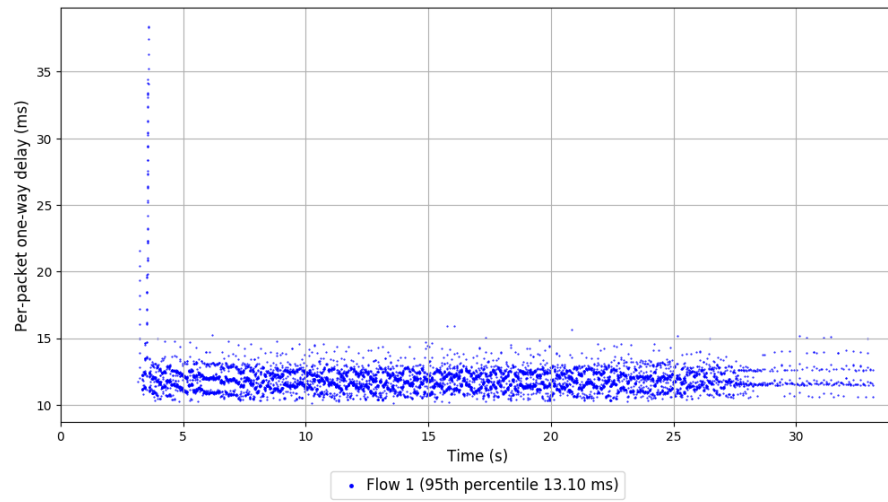
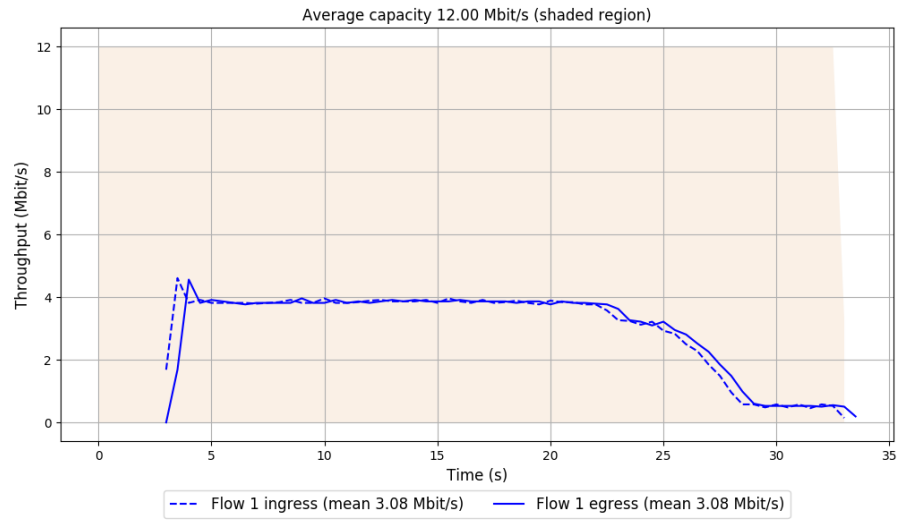
-- Flow 1:

Average throughput: 3.08 Mbit/s

95th percentile per-packet one-way delay: 13.095 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-07-11 23:44:12

End at: 2019-07-11 23:44:42

Below is generated by plot.py at 2019-07-11 23:56:17

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 3.20 Mbit/s (26.6% utilization)

95th percentile per-packet one-way delay: 13.150 ms

Loss rate: 0.00%

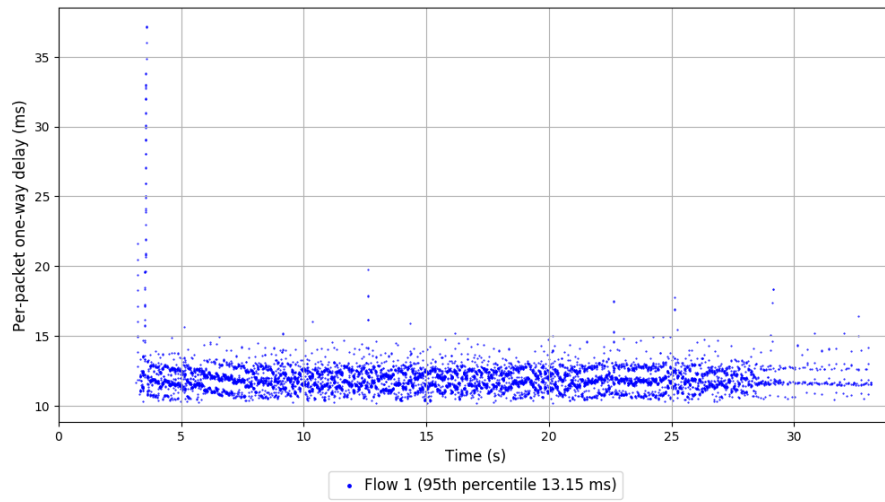
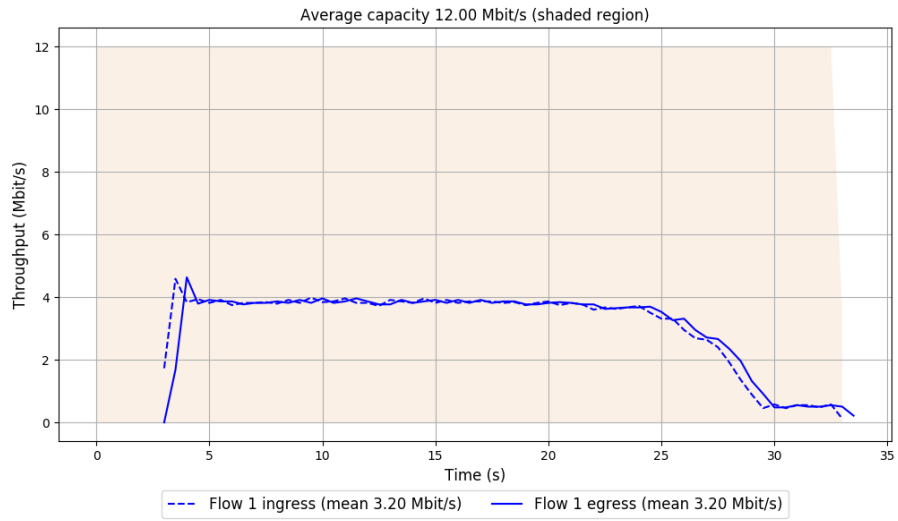
-- Flow 1:

Average throughput: 3.20 Mbit/s

95th percentile per-packet one-way delay: 13.150 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-07-11 23:17:15

End at: 2019-07-11 23:17:45

Below is generated by plot.py at 2019-07-11 23:56:17

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.38 Mbit/s (11.5% utilization)

95th percentile per-packet one-way delay: 26.973 ms

Loss rate: 0.03%

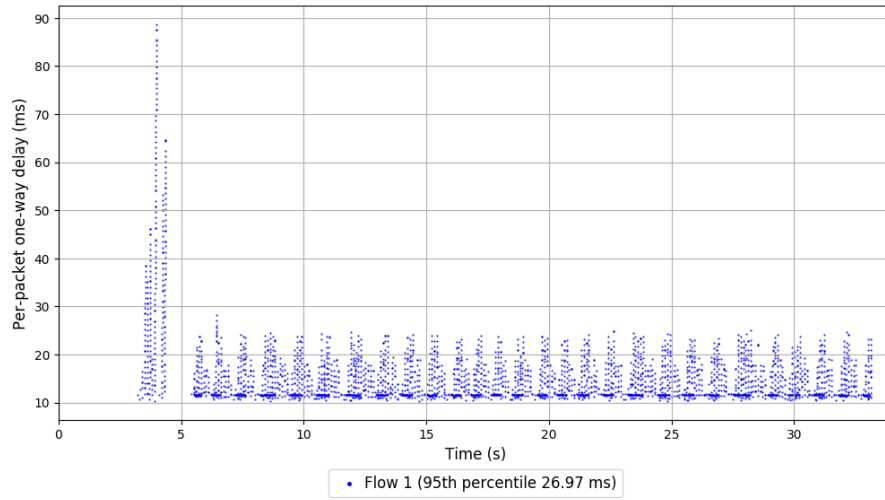
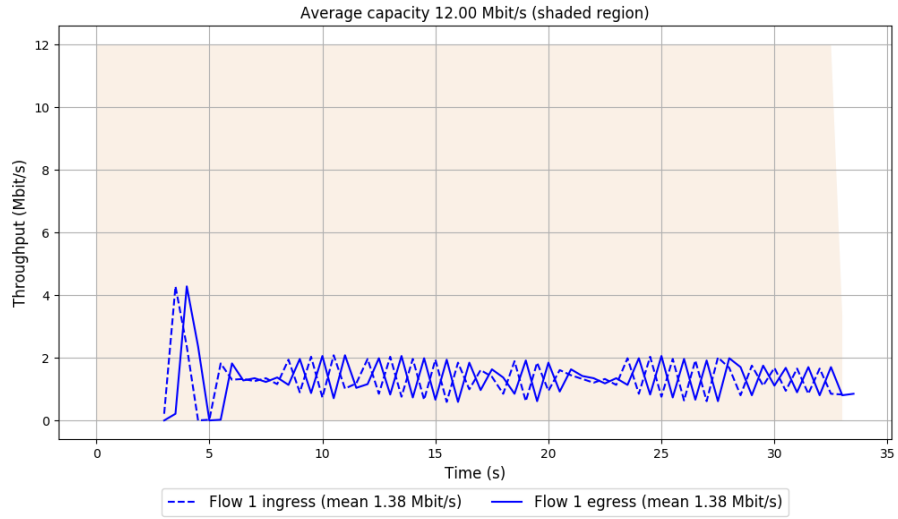
-- Flow 1:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 26.973 ms

Loss rate: 0.03%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-07-11 23:31:19

End at: 2019-07-11 23:31:49

Below is generated by plot.py at 2019-07-11 23:56:17

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.40 Mbit/s (11.7% utilization)

95th percentile per-packet one-way delay: 25.730 ms

Loss rate: 0.17%

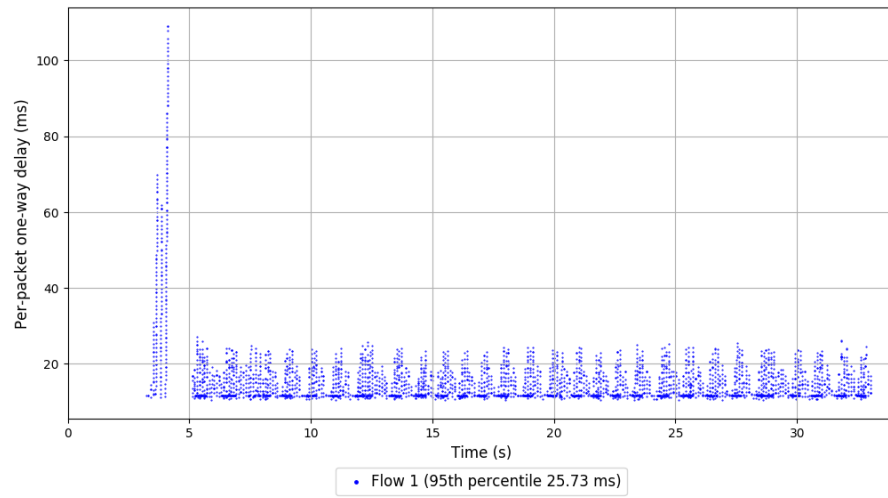
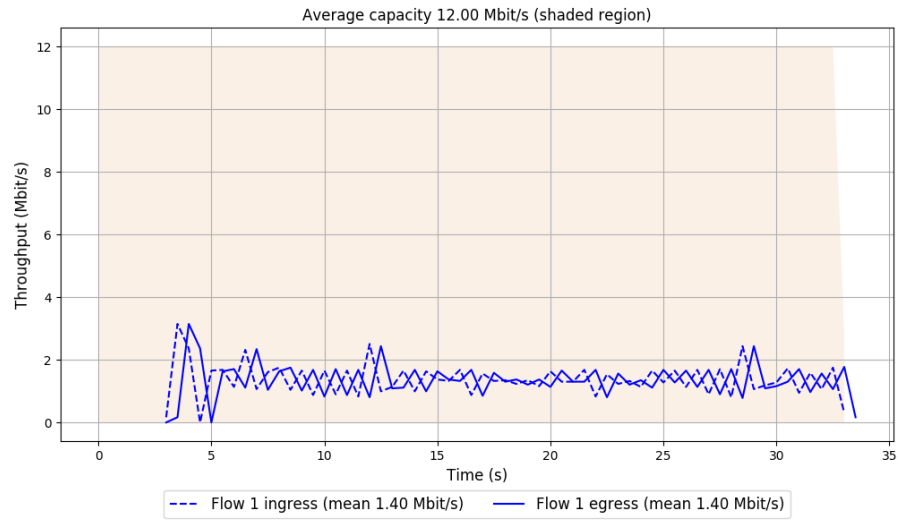
-- Flow 1:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 25.730 ms

Loss rate: 0.17%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-07-11 23:45:22

End at: 2019-07-11 23:45:52

Below is generated by plot.py at 2019-07-11 23:56:17

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: 23.762 ms

Loss rate: 0.00%

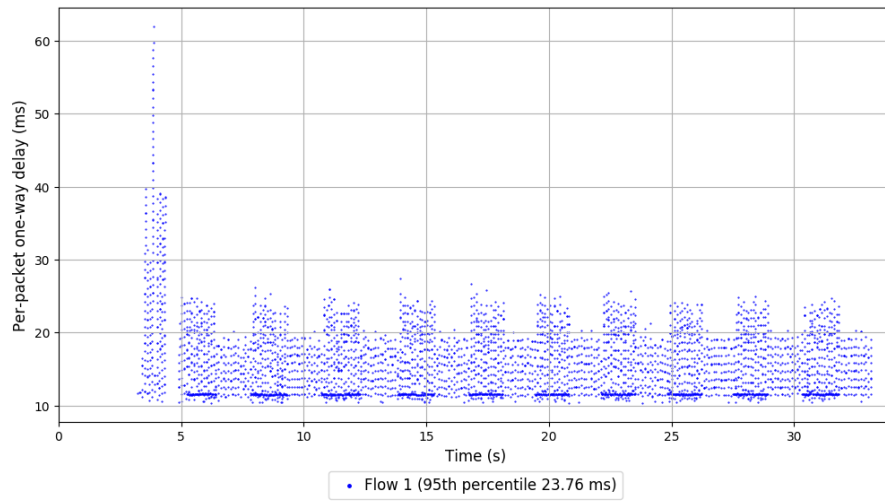
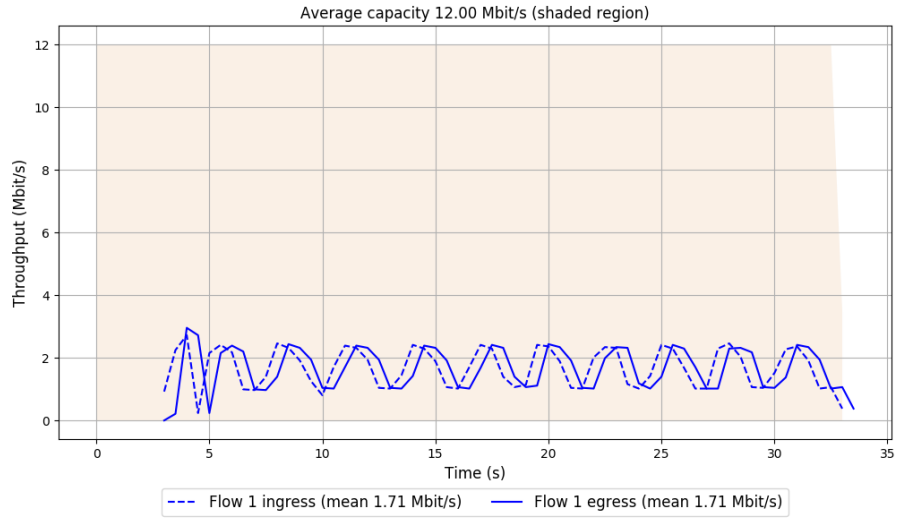
-- Flow 1:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 23.762 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-07-11 23:15:29

End at: 2019-07-11 23:16:00

Below is generated by plot.py at 2019-07-11 23:56:17

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.41 Mbit/s (11.7% utilization)

95th percentile per-packet one-way delay: 12.247 ms

Loss rate: 0.03%

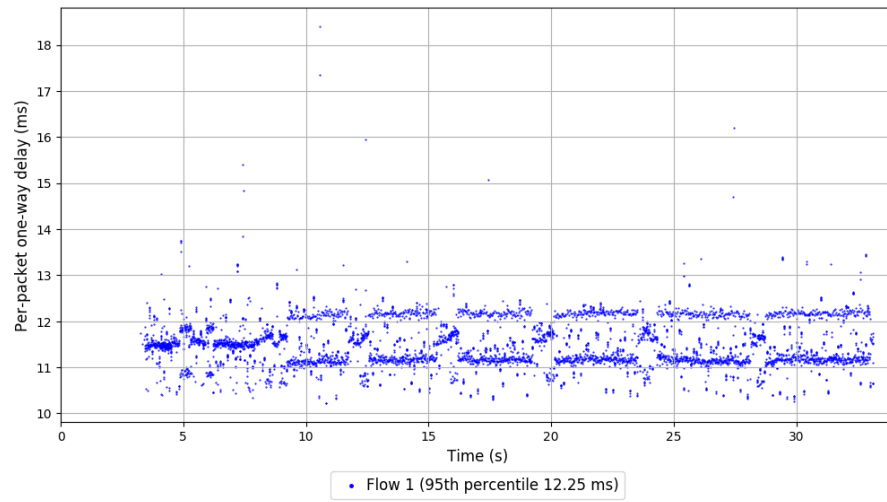
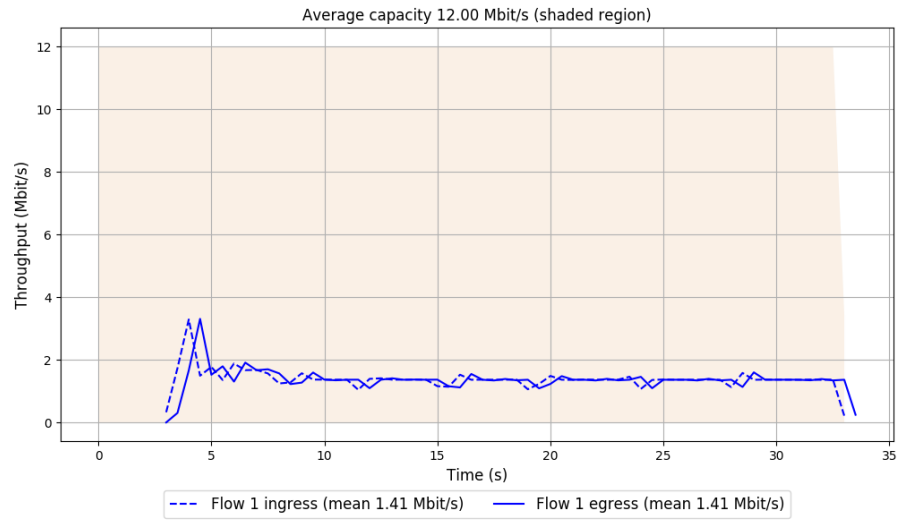
-- Flow 1:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 12.247 ms

Loss rate: 0.03%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-07-11 23:29:33

End at: 2019-07-11 23:30:03

Below is generated by plot.py at 2019-07-11 23:56:22

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: 12.210 ms

Loss rate: 0.03%

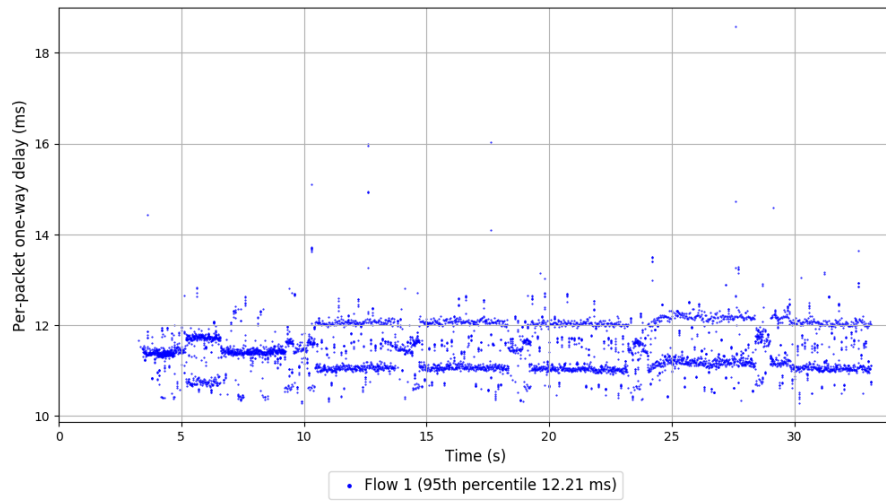
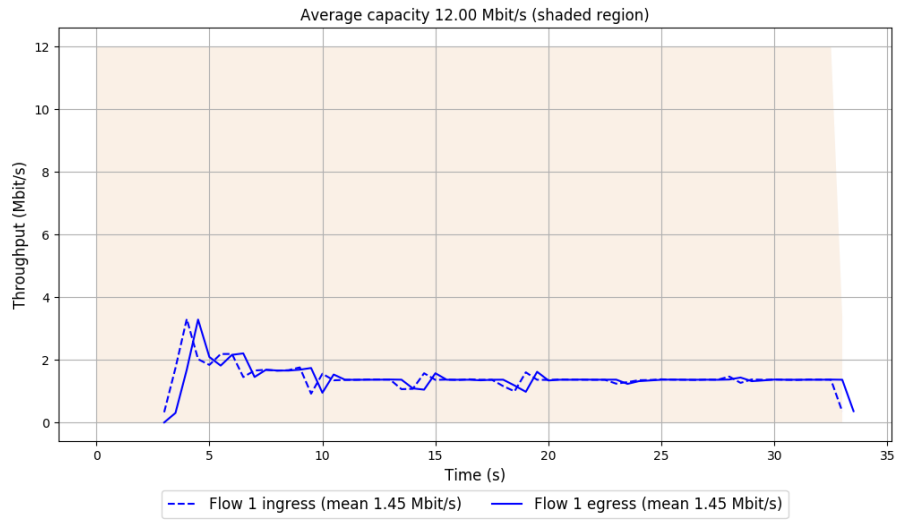
-- Flow 1:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 12.210 ms

Loss rate: 0.03%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-07-11 23:43:37

End at: 2019-07-11 23:44:07

Below is generated by plot.py at 2019-07-11 23:56:22

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: 12.215 ms

Loss rate: 0.03%

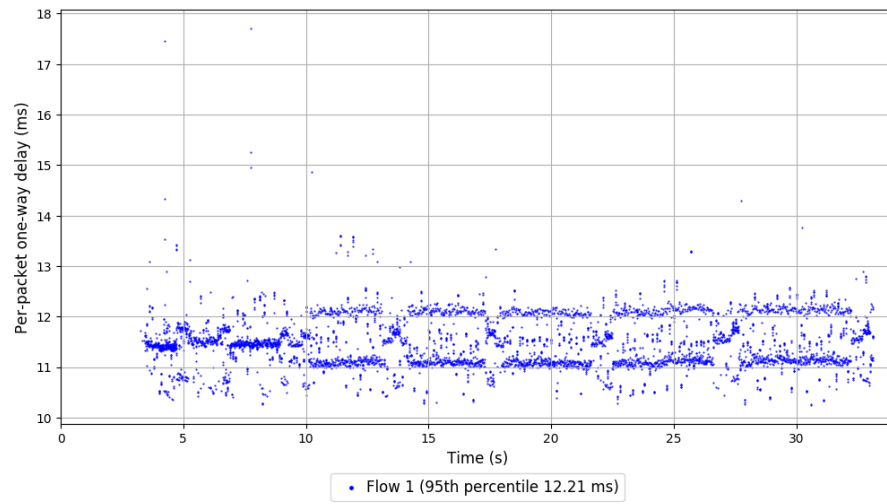
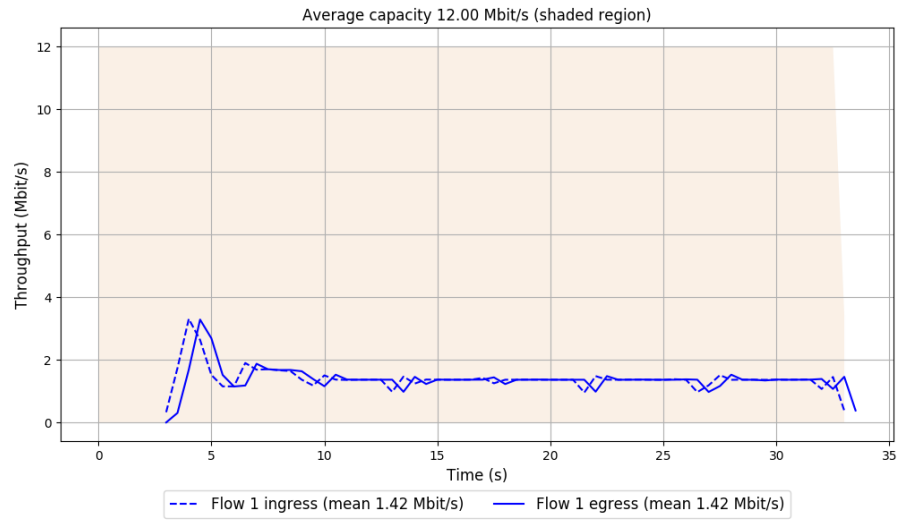
-- Flow 1:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 12.215 ms

Loss rate: 0.03%

Run 3: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-07-11 23:25:27

End at: 2019-07-11 23:25:57

Below is generated by plot.py at 2019-07-11 23:56:22

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 0.05 Mbit/s (0.4% utilization)

95th percentile per-packet one-way delay: 19.725 ms

Loss rate: 0.00%

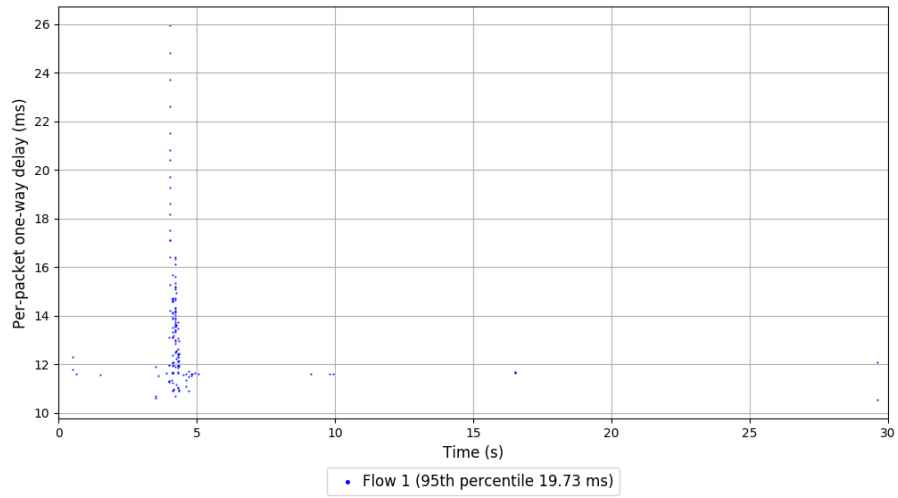
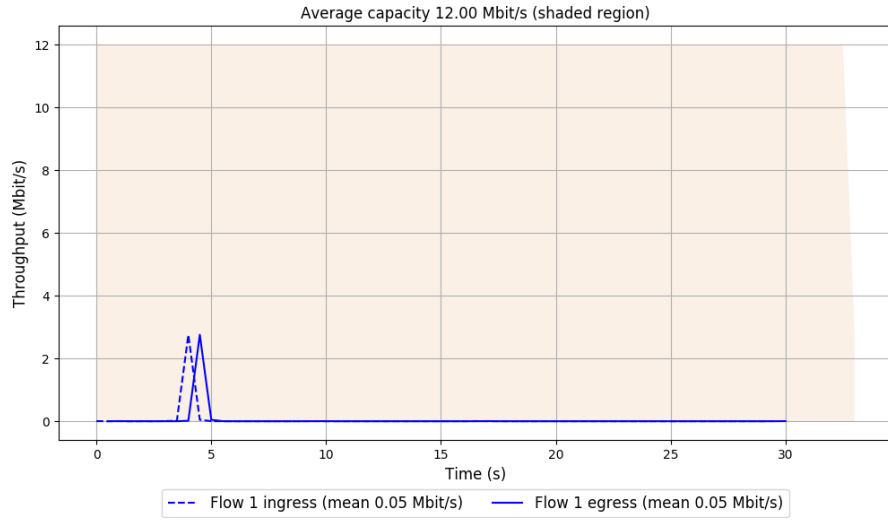
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 19.725 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-07-11 23:39:30

End at: 2019-07-11 23:40:00

Below is generated by plot.py at 2019-07-11 23:56:22

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 0.05 Mbit/s (0.4% utilization)

95th percentile per-packet one-way delay: 19.063 ms

Loss rate: 0.00%

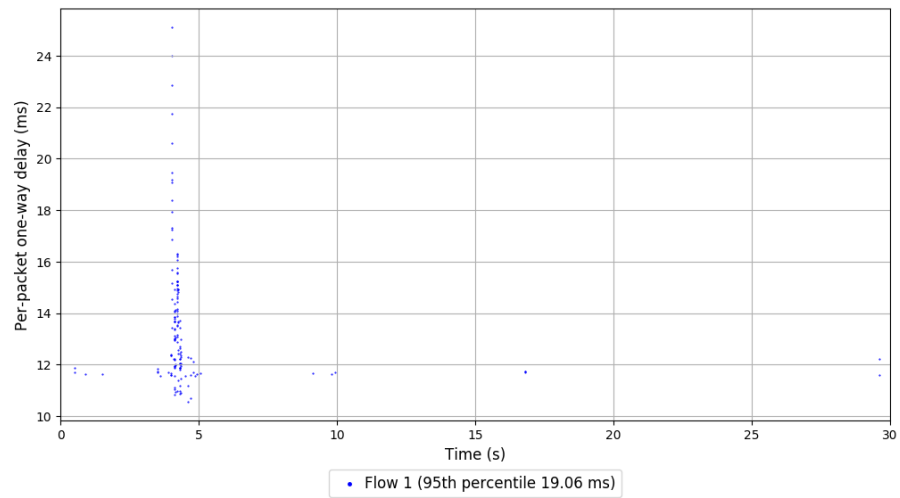
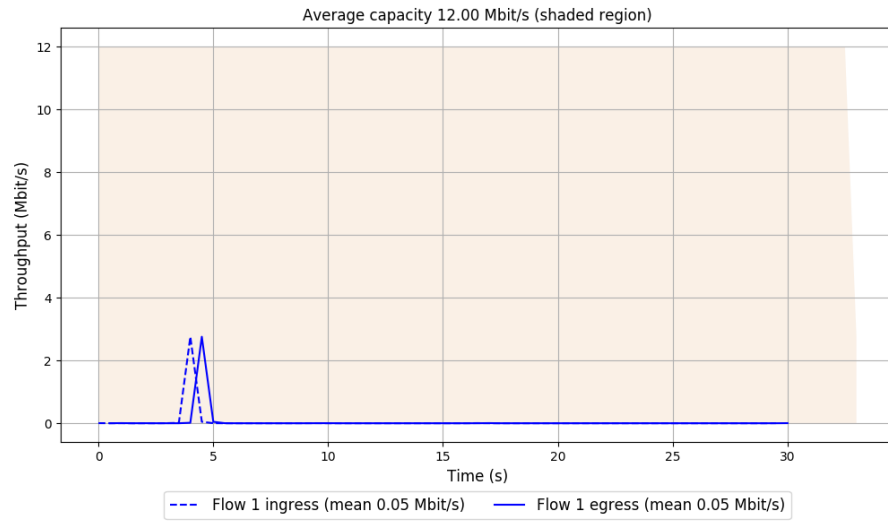
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 19.063 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-07-11 23:53:34

End at: 2019-07-11 23:54:04

Below is generated by plot.py at 2019-07-11 23:56:22

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 0.05 Mbit/s (0.4% utilization)

95th percentile per-packet one-way delay: 19.358 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 19.358 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

