

Pantheon Report

Generated at 2019-10-27 04:58:35 (UTC).

Tested in mahimahi: mm-delay 40 mm-link 50mbps.trace 50mbps.trace
--uplink-queue=droptail --uplink-queue-args=packets=300
Repeated the test of 10 congestion control schemes 3 times.
Each test lasted for 30 seconds running 1 flow.

System info:

Linux 4.15.0-65-generic
net.core.default_qdisc = fq
net.core.rmem_default = 212992
net.core.rmem_max = 212992
net.core.wmem_default = 212992
net.core.wmem_max = 212992
net.ipv4.tcp_rmem = 4096 87380 6291456
net.ipv4.tcp_wmem = 4096 16384 4194304

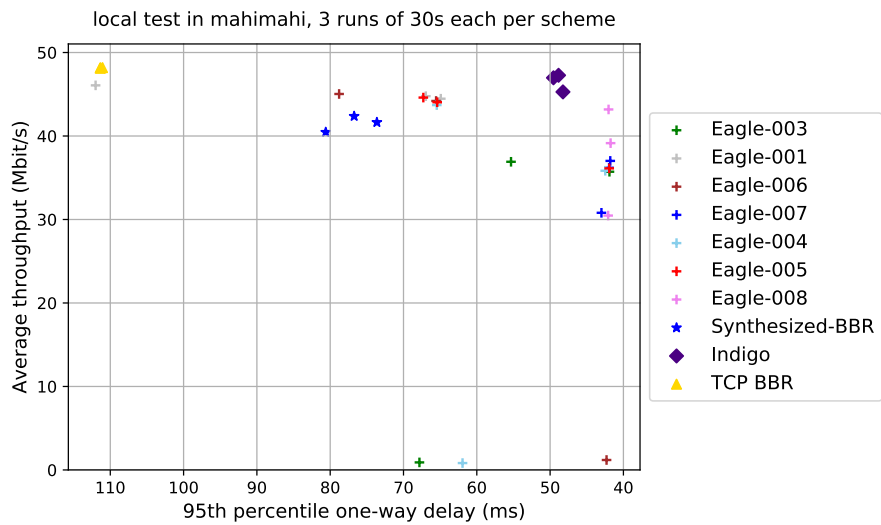
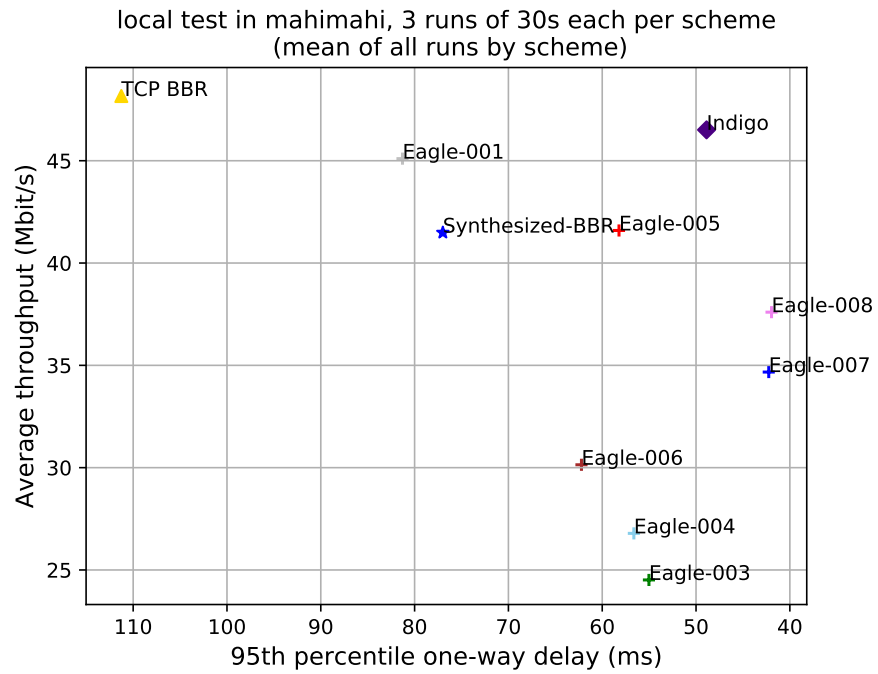
Git summary:

branch: master @ b54fc866b3140559c1fa1782d26fa636f7a43a8d
third_party/aurora @ f3e943d61015b39960854ba6391797e0c7984d74
third_party/aurora-model @ e292c316c23fb837255c4e142e40590d154bbe95
third_party/eagle-v1 @ c68d985e042be5c30704c0aee48c363861951a95
third_party/eagle-v2 @ c8a1737b3c84d7d49eada5b8785045d272a70120
third_party/eagle-v3 @ d5f1ab4416fa417052ddc65de5dbdbd20955d293
M sender-receiver/sender-receiver/sender_receiver/envs/__pycache__/datagram_pb2.cpython-36
M sender-receiver/sender-receiver/sender_receiver/envs/__pycache__/helpers.cpython-36.pyc
M sender-receiver/sender-receiver/sender_receiver/envs/__pycache__/mahimahi.cpython-36.pyc
M sender-receiver/sender-receiver/sender_receiver/envs/__pycache__/project_root.cpython-36
M sender-receiver/sender-receiver/sender_receiver/envs/__pycache__/receiver.cpython-36.pyc
M sender-receiver/sender-receiver/sender_receiver/envs/example-xentropy-random-switch.py
M sender-receiver/sender-receiver/sender_receiver/envs/example-xentropy.py
D sender-receiver/sender-receiver/sender_receiver/envs/model-xentropy/model-xentropy-2.pt
D sender-receiver/sender-receiver/sender_receiver/envs/model-xentropy/model-xentropy-240ite
M sender-receiver/sender-receiver/sender_receiver/envs/model-xentropy/model-xentropy.pt
M sender-receiver/sender-receiver/sender_receiver/logs.txt
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfc58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
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-quir @ 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/synthesizedBBR @ d5f1ab4416fa417052ddc65de5dbdbd20955d293
M sender-receiver/sender-receiver/sender_receiver/__pycache__/__init__.cpython-36.pyc
M sender-receiver/sender-receiver/sender_receiver/envs/__pycache__/__init__.cpython-36.pyc
M sender-receiver/sender-receiver/sender_receiver/envs/__pycache__/datagram_pb2.cpython-36.pyc
M sender-receiver/sender-receiver/sender_receiver/envs/__pycache__/helpers.cpython-36.pyc
M sender-receiver/sender-receiver/sender_receiver/envs/__pycache__/mahimahi.cpython-36.pyc
M sender-receiver/sender-receiver/sender_receiver/envs/__pycache__/project_root.cpython-36.pyc
M sender-receiver/sender-receiver/sender_receiver/envs/__pycache__/receiver.cpython-36.pyc
M sender-receiver/sender-receiver/sender_receiver/envs/__pycache__/sender_receiver_env.cpython-36.pyc
M sender-receiver/sender-receiver/sender_receiver/envs/example-xentropy.py
M sender-receiver/sender-receiver/sender_receiver/logs.txt
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webRTC @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

```



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	3	48.16	111.26	1.93
Eagle-001	3	45.10	81.29	1.30
Eagle-003	3	24.51	55.02	0.07
Eagle-004	3	26.79	56.63	0.12
Eagle-005	3	41.59	58.21	0.17
Eagle-006	3	30.14	62.21	0.15
Eagle-007	3	34.67	42.25	0.14
Eagle-008	3	37.60	41.95	0.15
Indigo	3	46.51	48.88	0.43
Synthesized-BBR	3	41.49	76.99	0.23

Run 1: Statistics of TCP BBR

Start at: 2019-10-27 04:32:27

End at: 2019-10-27 04:32:57

Below is generated by plot.py at 2019-10-27 04:55:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 48.12 Mbit/s (96.2% utilization)

95th percentile per-packet one-way delay: 111.368 ms

Loss rate: 1.91%

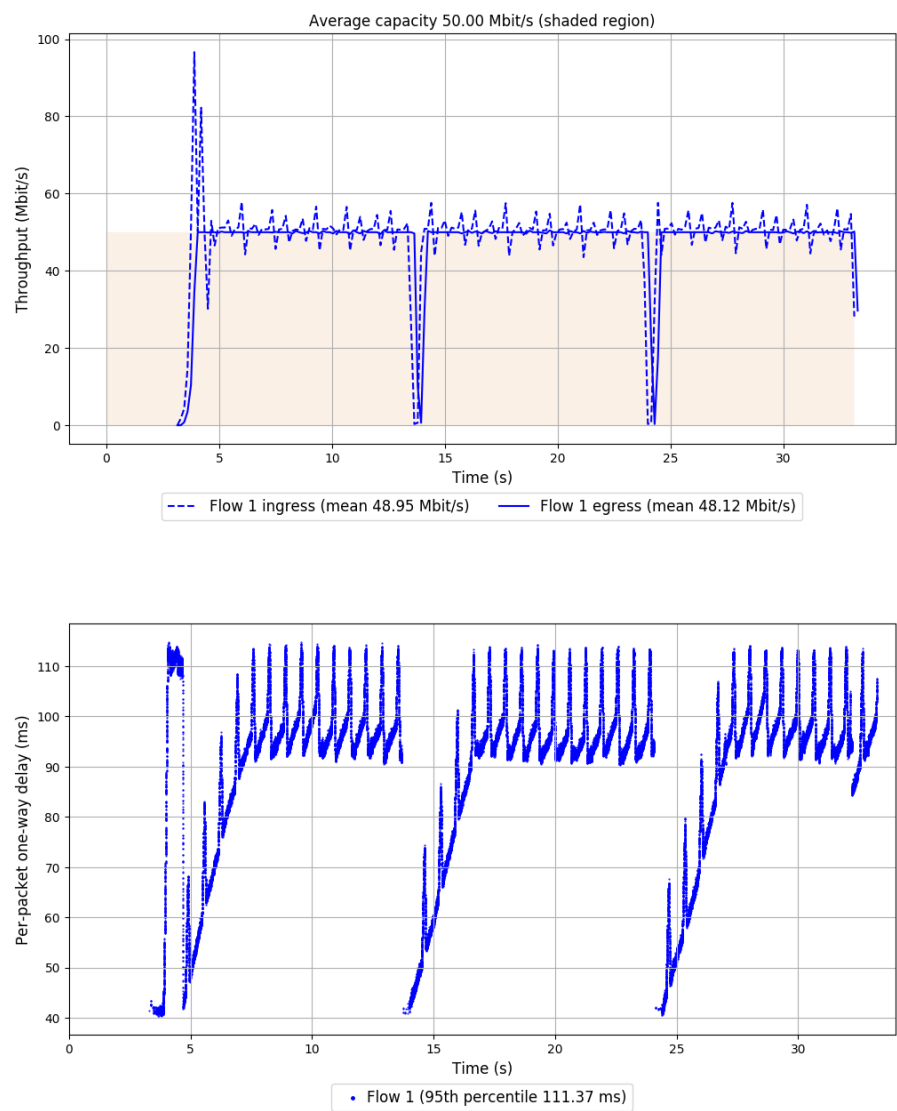
-- Flow 1:

Average throughput: 48.12 Mbit/s

95th percentile per-packet one-way delay: 111.368 ms

Loss rate: 1.91%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-10-27 04:38:30

End at: 2019-10-27 04:39:00

Below is generated by plot.py at 2019-10-27 04:55:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 48.19 Mbit/s (96.4% utilization)

95th percentile per-packet one-way delay: 111.065 ms

Loss rate: 1.92%

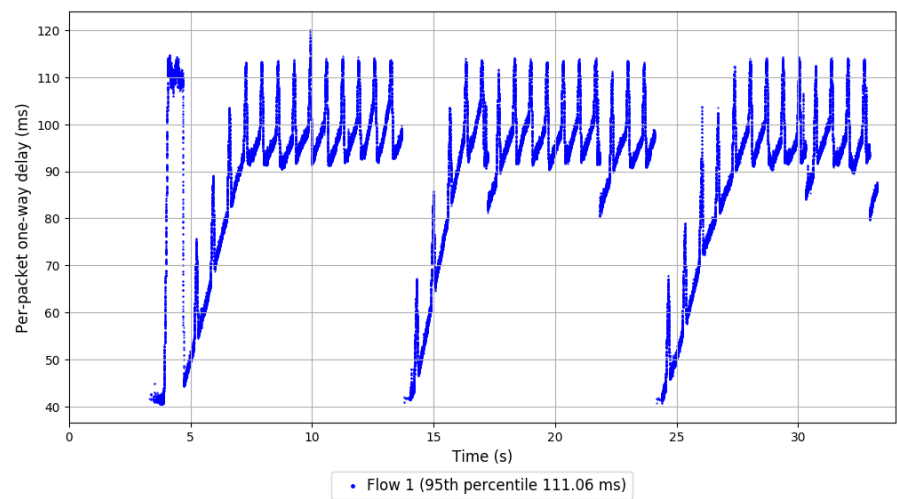
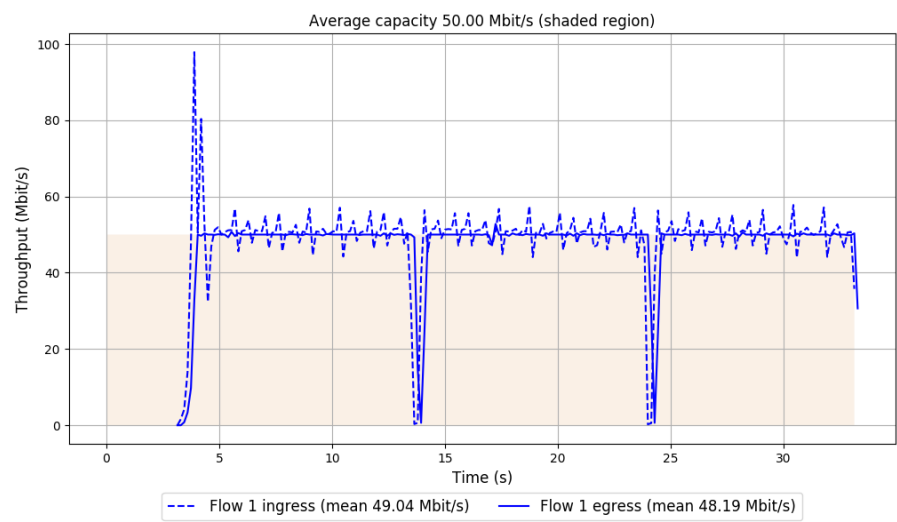
-- Flow 1:

Average throughput: 48.19 Mbit/s

95th percentile per-packet one-way delay: 111.065 ms

Loss rate: 1.92%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-10-27 04:44:31

End at: 2019-10-27 04:45:01

Below is generated by plot.py at 2019-10-27 04:55:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 48.18 Mbit/s (96.3% utilization)

95th percentile per-packet one-way delay: 111.355 ms

Loss rate: 1.97%

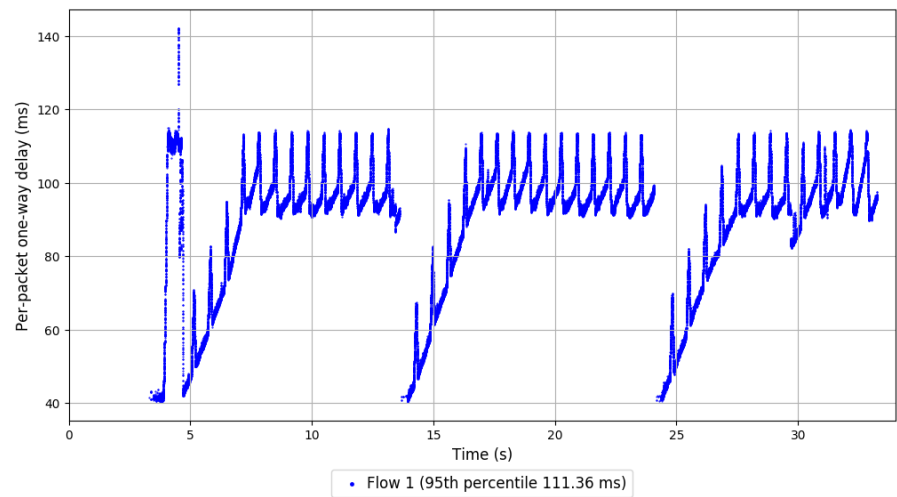
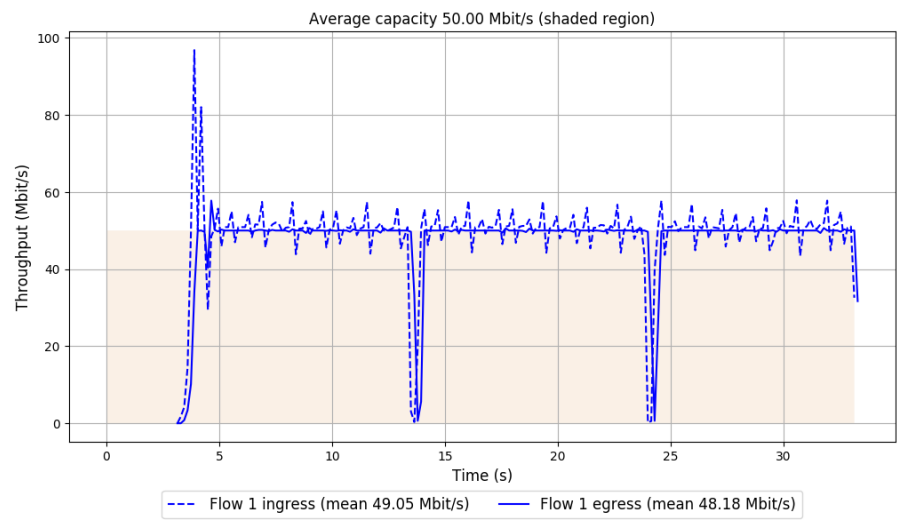
-- Flow 1:

Average throughput: 48.18 Mbit/s

95th percentile per-packet one-way delay: 111.355 ms

Loss rate: 1.97%

Run 3: Report of TCP BBR — Data Link



Run 1: Statistics of Eagle-001

Start at: 2019-10-27 04:27:35

End at: 2019-10-27 04:28:05

Below is generated by plot.py at 2019-10-27 04:55:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 44.47 Mbit/s (88.9% utilization)

95th percentile per-packet one-way delay: 64.912 ms

Loss rate: 0.17%

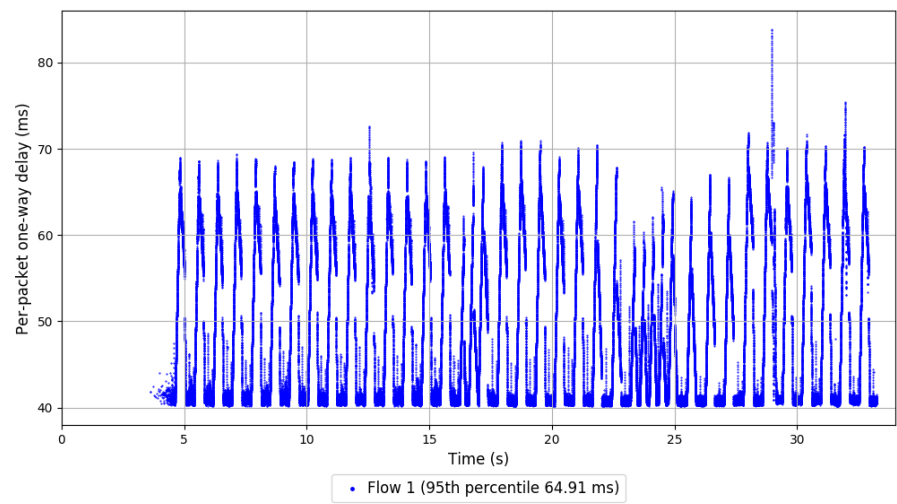
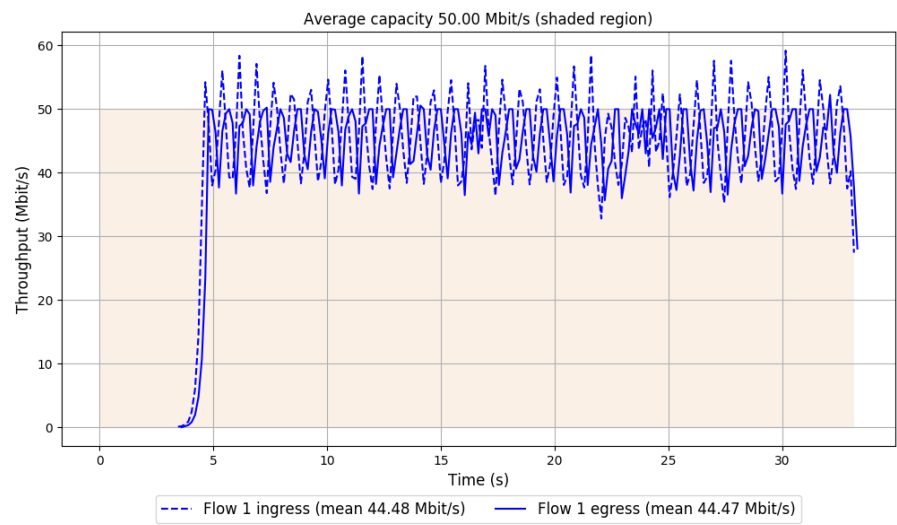
-- Flow 1:

Average throughput: 44.47 Mbit/s

95th percentile per-packet one-way delay: 64.912 ms

Loss rate: 0.17%

Run 1: Report of Eagle-001 — Data Link



Run 2: Statistics of Eagle-001

Start at: 2019-10-27 04:33:40

End at: 2019-10-27 04:34:10

Below is generated by plot.py at 2019-10-27 04:56:16

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 46.07 Mbit/s (92.1% utilization)

95th percentile per-packet one-way delay: 112.004 ms

Loss rate: 3.51%

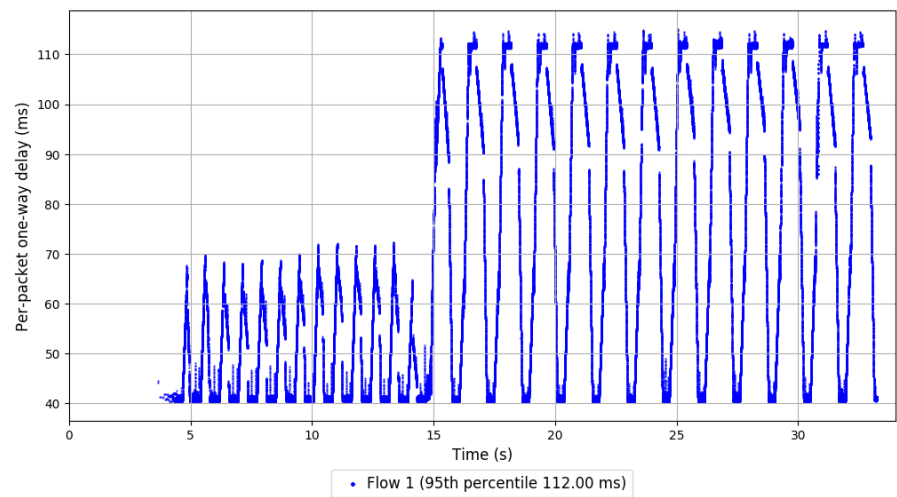
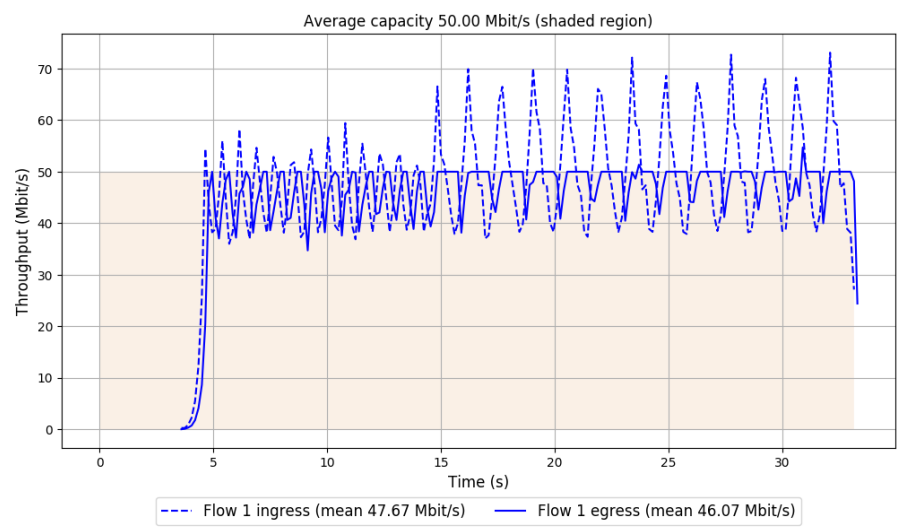
-- Flow 1:

Average throughput: 46.07 Mbit/s

95th percentile per-packet one-way delay: 112.004 ms

Loss rate: 3.51%

Run 2: Report of Eagle-001 — Data Link



Run 3: Statistics of Eagle-001

Start at: 2019-10-27 04:39:44

End at: 2019-10-27 04:40:14

Below is generated by plot.py at 2019-10-27 04:56:25

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 44.77 Mbit/s (89.5% utilization)

95th percentile per-packet one-way delay: 66.954 ms

Loss rate: 0.23%

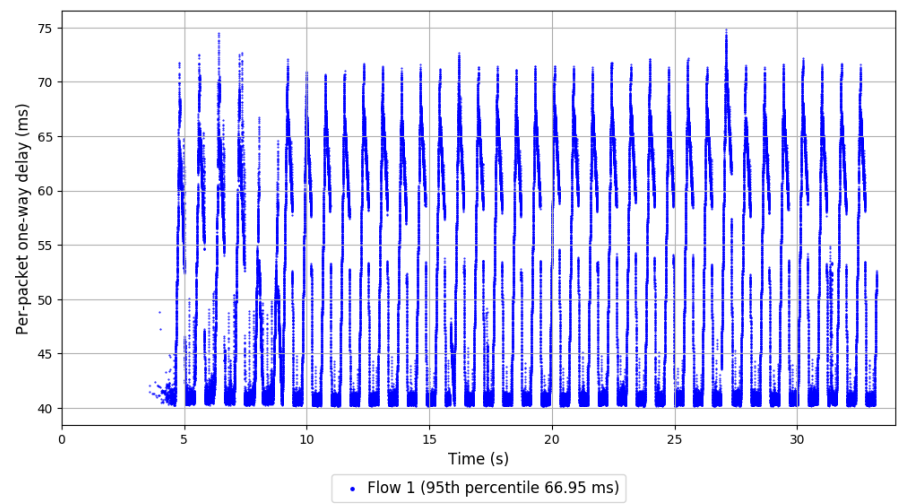
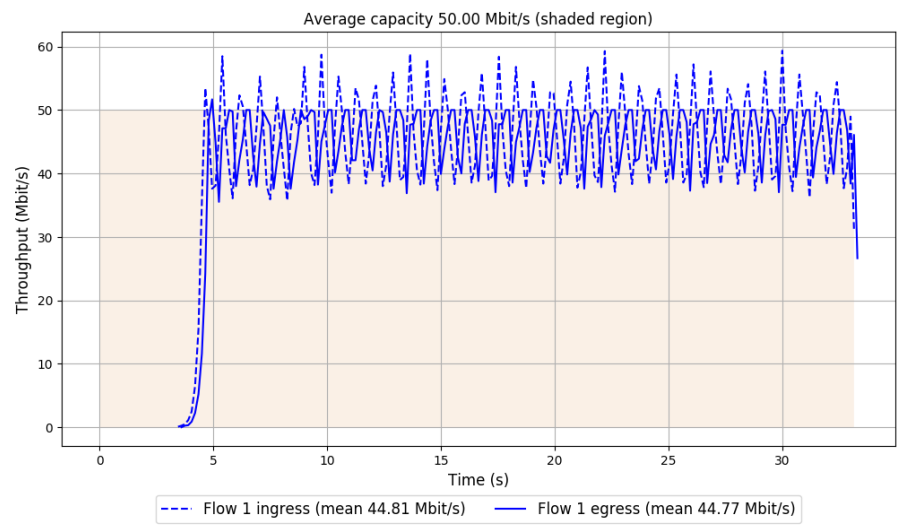
-- Flow 1:

Average throughput: 44.77 Mbit/s

95th percentile per-packet one-way delay: 66.954 ms

Loss rate: 0.23%

Run 3: Report of Eagle-001 — Data Link



Run 1: Statistics of Eagle-003

Start at: 2019-10-27 04:28:11

End at: 2019-10-27 04:28:41

Below is generated by plot.py at 2019-10-27 04:56:25

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 35.72 Mbit/s (71.4% utilization)

95th percentile per-packet one-way delay: 41.903 ms

Loss rate: 0.08%

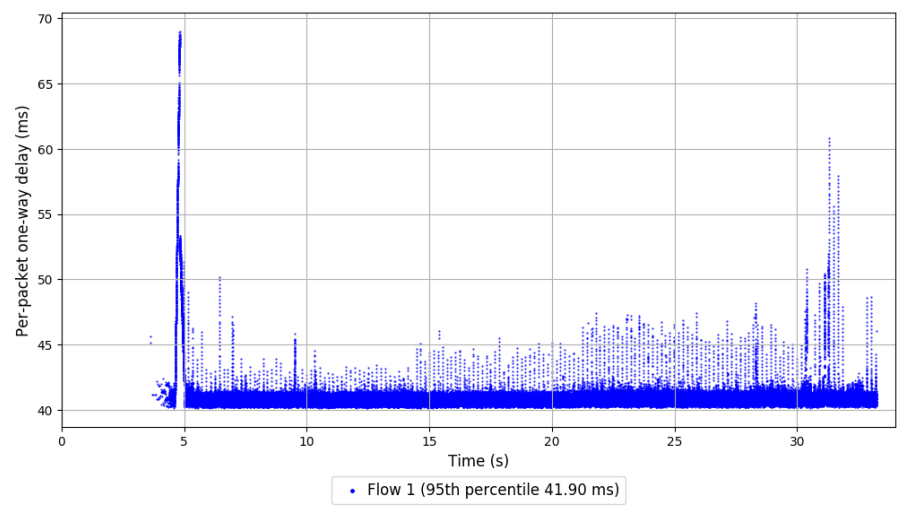
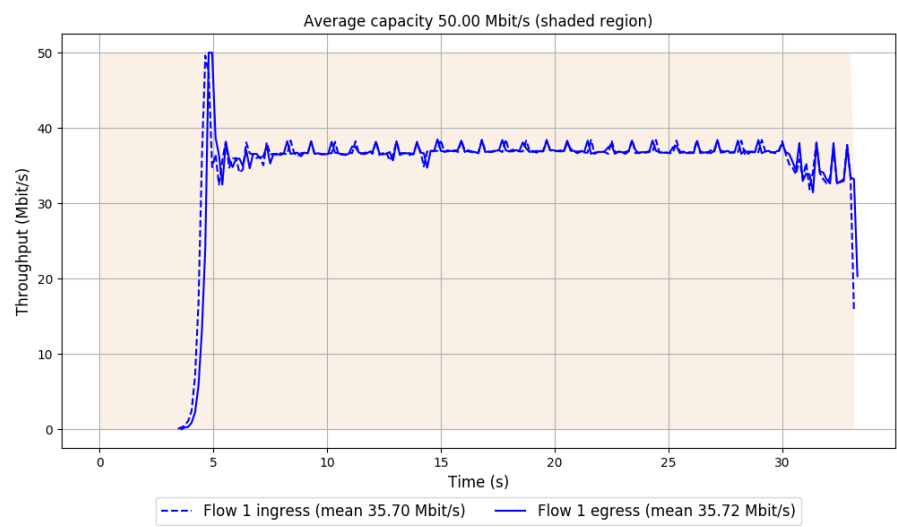
-- Flow 1:

Average throughput: 35.72 Mbit/s

95th percentile per-packet one-way delay: 41.903 ms

Loss rate: 0.08%

Run 1: Report of Eagle-003 — Data Link



Run 2: Statistics of Eagle-003

Start at: 2019-10-27 04:34:17

End at: 2019-10-27 04:34:47

Below is generated by plot.py at 2019-10-27 04:56:25

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 0.90 Mbit/s (1.8% utilization)

95th percentile per-packet one-way delay: 67.826 ms

Loss rate: 0.00%

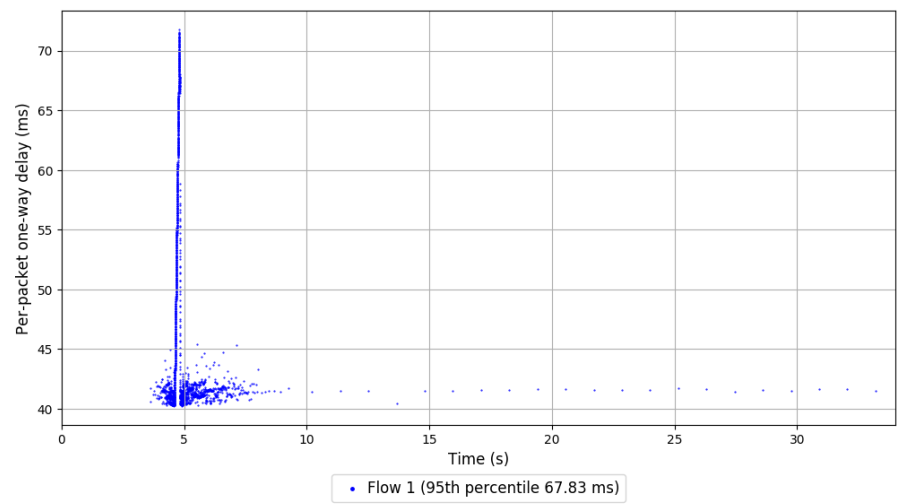
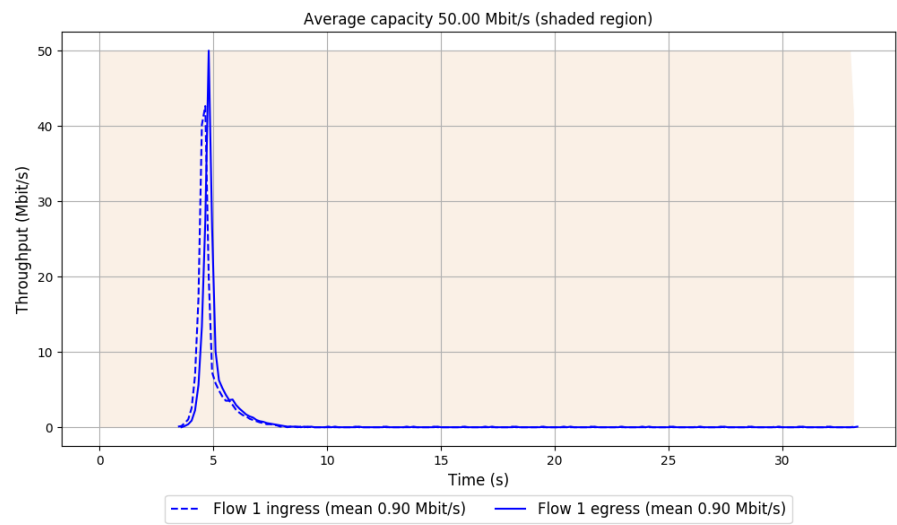
-- Flow 1:

Average throughput: 0.90 Mbit/s

95th percentile per-packet one-way delay: 67.826 ms

Loss rate: 0.00%

Run 2: Report of Eagle-003 — Data Link



Run 3: Statistics of Eagle-003

Start at: 2019-10-27 04:40:20

End at: 2019-10-27 04:40:50

Below is generated by plot.py at 2019-10-27 04:56:30

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 36.91 Mbit/s (73.8% utilization)

95th percentile per-packet one-way delay: 55.332 ms

Loss rate: 0.13%

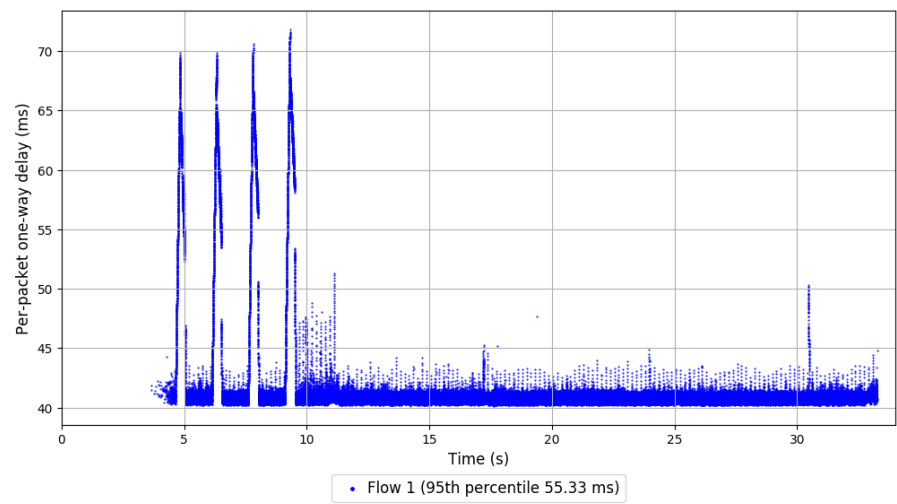
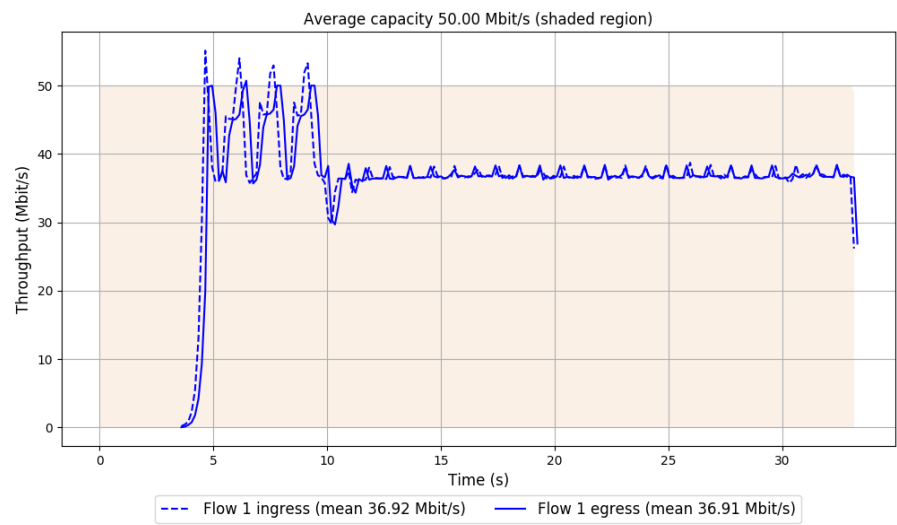
-- Flow 1:

Average throughput: 36.91 Mbit/s

95th percentile per-packet one-way delay: 55.332 ms

Loss rate: 0.13%

Run 3: Report of Eagle-003 — Data Link



Run 1: Statistics of Eagle-004

Start at: 2019-10-27 04:28:48

End at: 2019-10-27 04:29:18

Below is generated by plot.py at 2019-10-27 04:56:38

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 35.84 Mbit/s (71.7% utilization)

95th percentile per-packet one-way delay: 42.478 ms

Loss rate: 0.15%

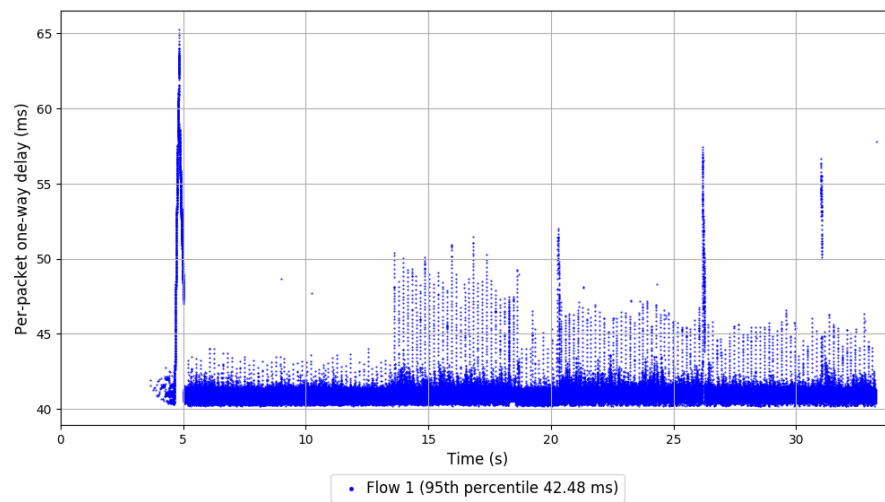
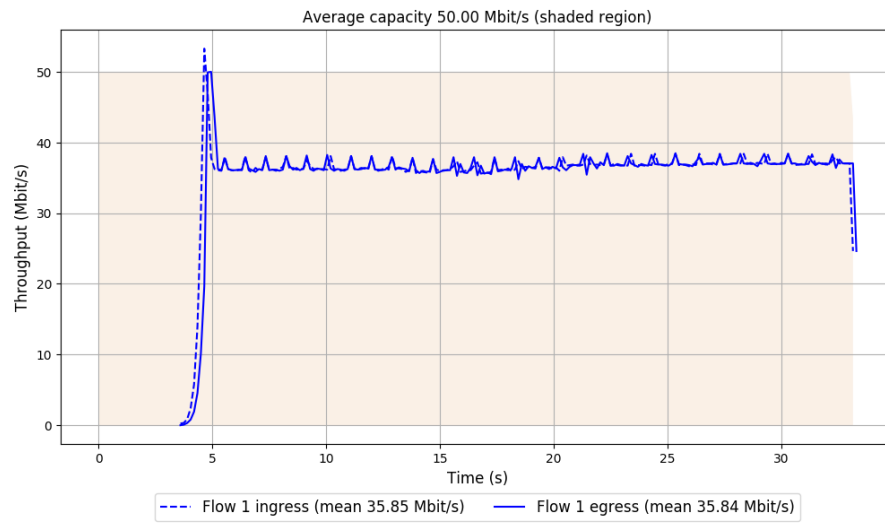
-- Flow 1:

Average throughput: 35.84 Mbit/s

95th percentile per-packet one-way delay: 42.478 ms

Loss rate: 0.15%

Run 1: Report of Eagle-004 — Data Link



Run 2: Statistics of Eagle-004

Start at: 2019-10-27 04:34:51

End at: 2019-10-27 04:35:21

Below is generated by plot.py at 2019-10-27 04:56:46

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 43.70 Mbit/s (87.4% utilization)

95th percentile per-packet one-way delay: 65.462 ms

Loss rate: 0.22%

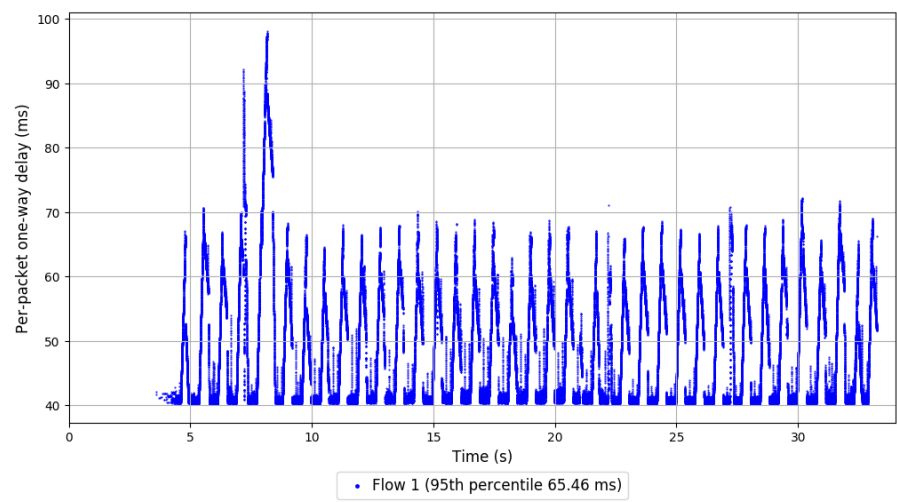
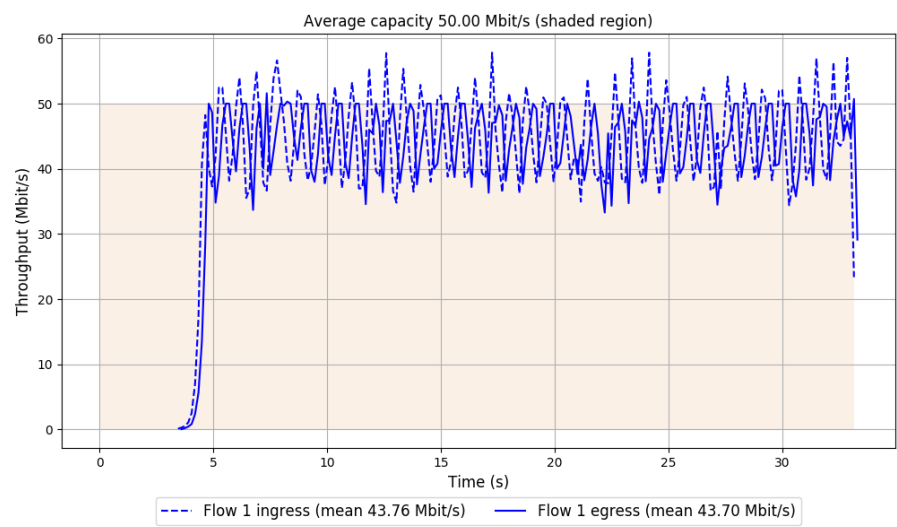
-- Flow 1:

Average throughput: 43.70 Mbit/s

95th percentile per-packet one-way delay: 65.462 ms

Loss rate: 0.22%

Run 2: Report of Eagle-004 — Data Link



Run 3: Statistics of Eagle-004

Start at: 2019-10-27 04:40:56

End at: 2019-10-27 04:41:27

Below is generated by plot.py at 2019-10-27 04:56:46

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 0.83 Mbit/s (1.7% utilization)

95th percentile per-packet one-way delay: 61.946 ms

Loss rate: 0.00%

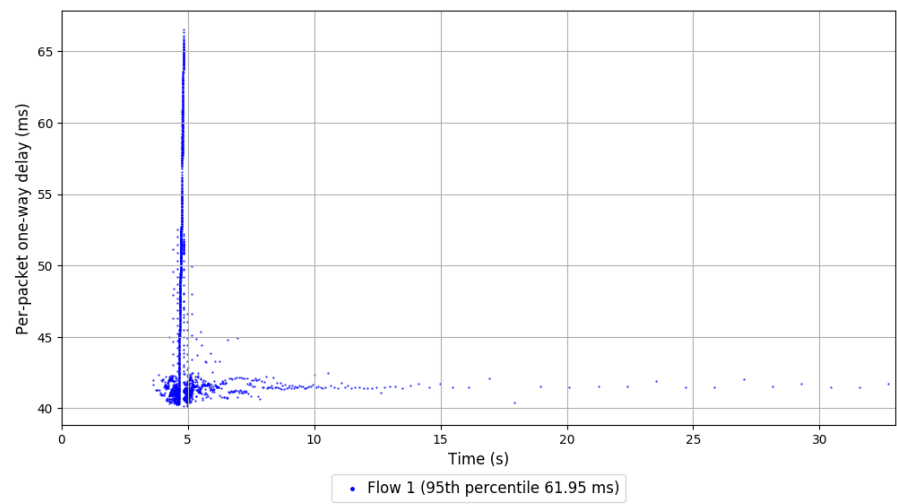
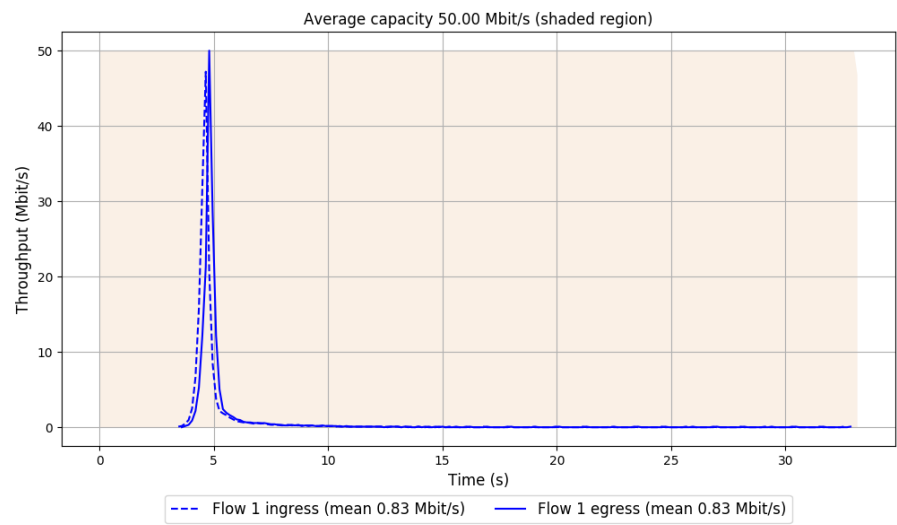
-- Flow 1:

Average throughput: 0.83 Mbit/s

95th percentile per-packet one-way delay: 61.946 ms

Loss rate: 0.00%

Run 3: Report of Eagle-004 — Data Link



Run 1: Statistics of Eagle-005

Start at: 2019-10-27 04:29:24

End at: 2019-10-27 04:29:54

Below is generated by plot.py at 2019-10-27 04:57:00

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 44.05 Mbit/s (88.1% utilization)

95th percentile per-packet one-way delay: 65.403 ms

Loss rate: 0.24%

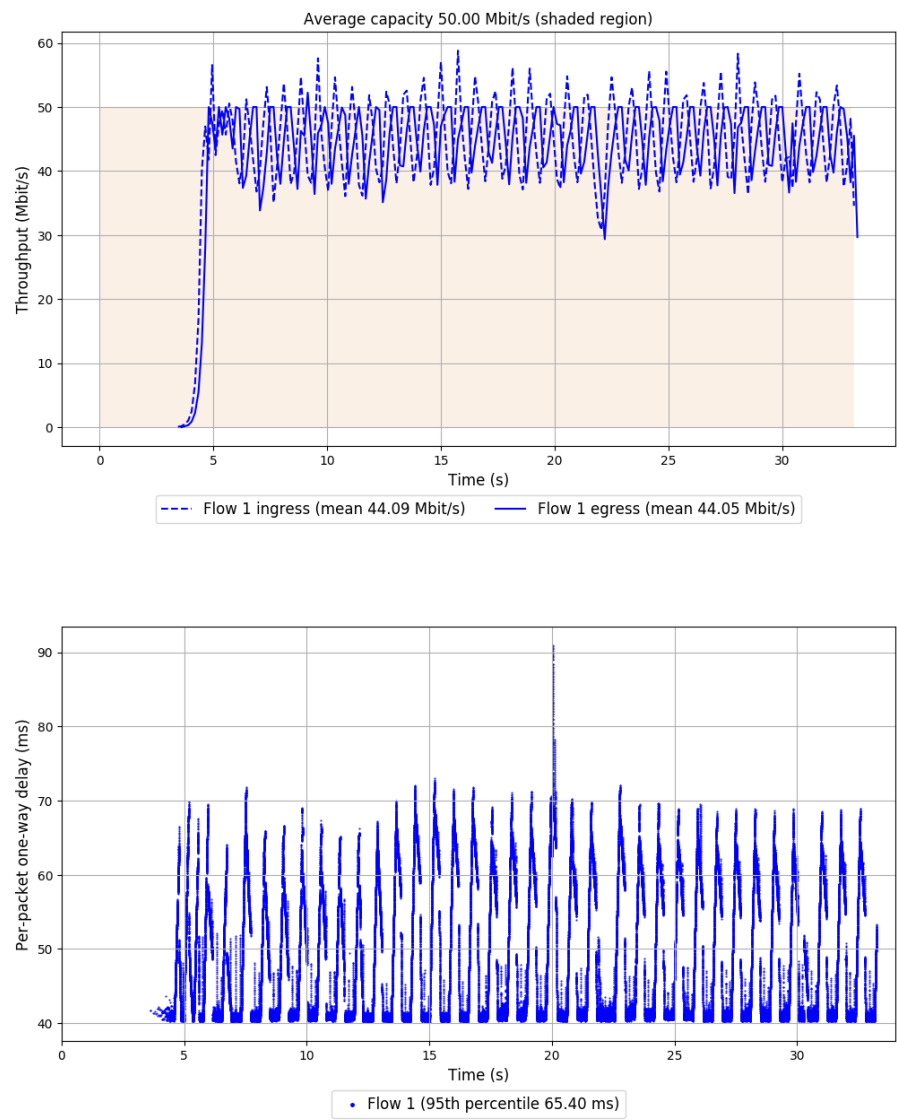
-- Flow 1:

Average throughput: 44.05 Mbit/s

95th percentile per-packet one-way delay: 65.403 ms

Loss rate: 0.24%

Run 1: Report of Eagle-005 — Data Link



Run 2: Statistics of Eagle-005

Start at: 2019-10-27 04:35:28

End at: 2019-10-27 04:35:58

Below is generated by plot.py at 2019-10-27 04:57:06

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 44.60 Mbit/s (89.2% utilization)

95th percentile per-packet one-way delay: 67.296 ms

Loss rate: 0.12%

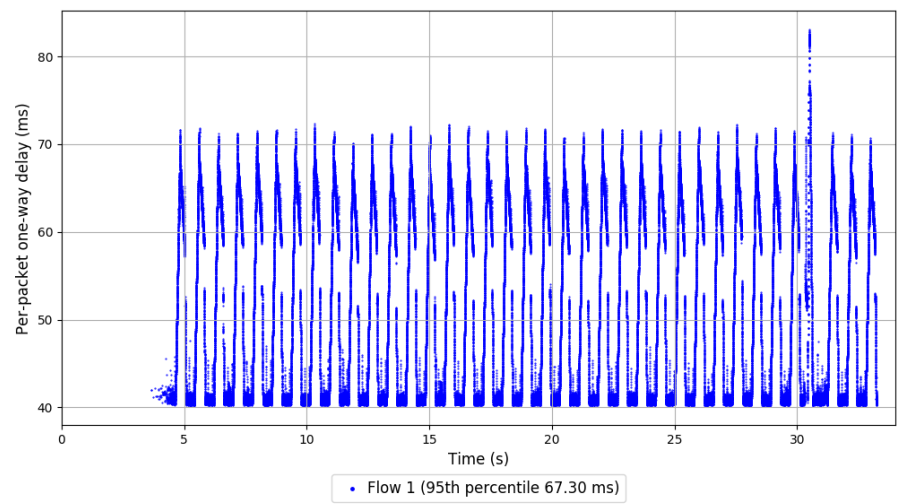
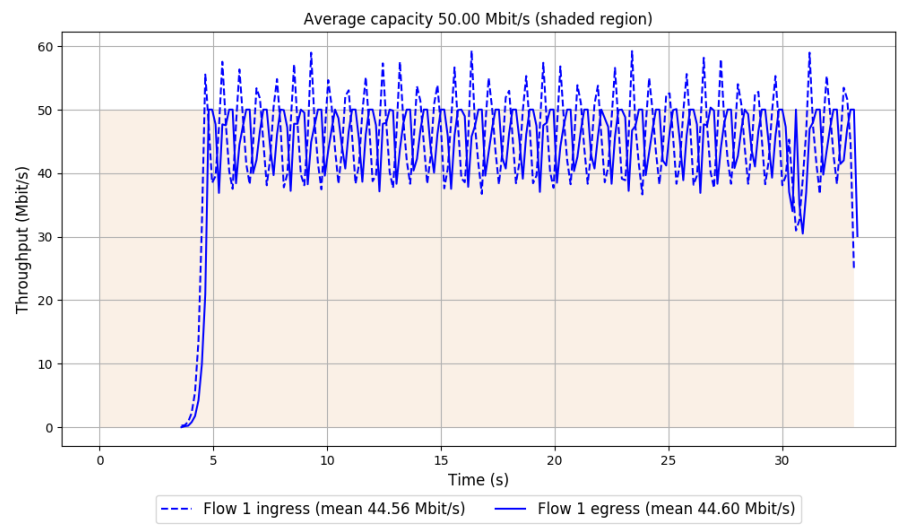
-- Flow 1:

Average throughput: 44.60 Mbit/s

95th percentile per-packet one-way delay: 67.296 ms

Loss rate: 0.12%

Run 2: Report of Eagle-005 — Data Link



Run 3: Statistics of Eagle-005

Start at: 2019-10-27 04:41:31

End at: 2019-10-27 04:42:01

Below is generated by plot.py at 2019-10-27 04:57:06

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 36.12 Mbit/s (72.2% utilization)

95th percentile per-packet one-way delay: 41.935 ms

Loss rate: 0.14%

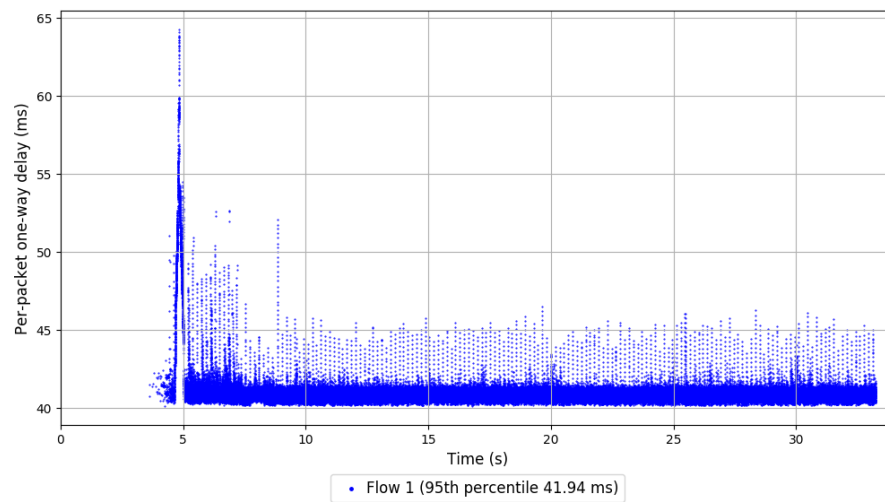
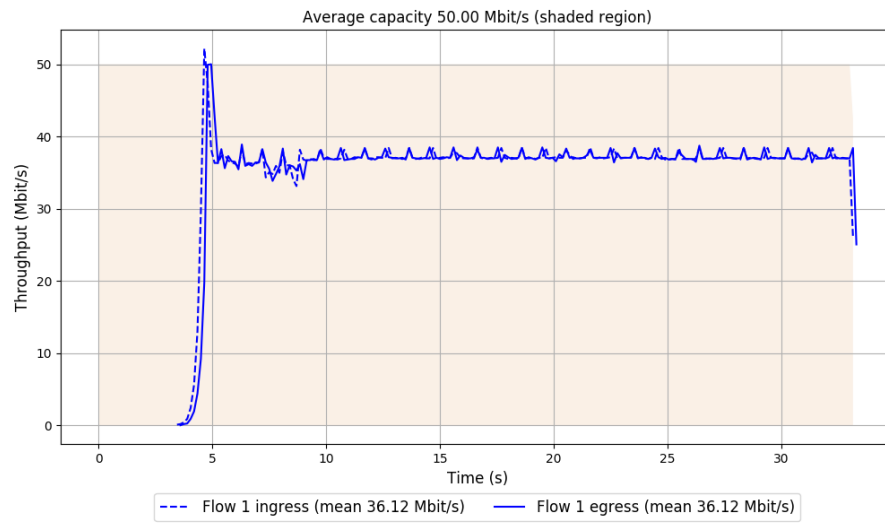
-- Flow 1:

Average throughput: 36.12 Mbit/s

95th percentile per-packet one-way delay: 41.935 ms

Loss rate: 0.14%

Run 3: Report of Eagle-005 — Data Link



Run 1: Statistics of Eagle-006

Start at: 2019-10-27 04:30:01

End at: 2019-10-27 04:30:31

Below is generated by plot.py at 2019-10-27 04:57:14

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 44.20 Mbit/s (88.4% utilization)

95th percentile per-packet one-way delay: 65.556 ms

Loss rate: 0.14%

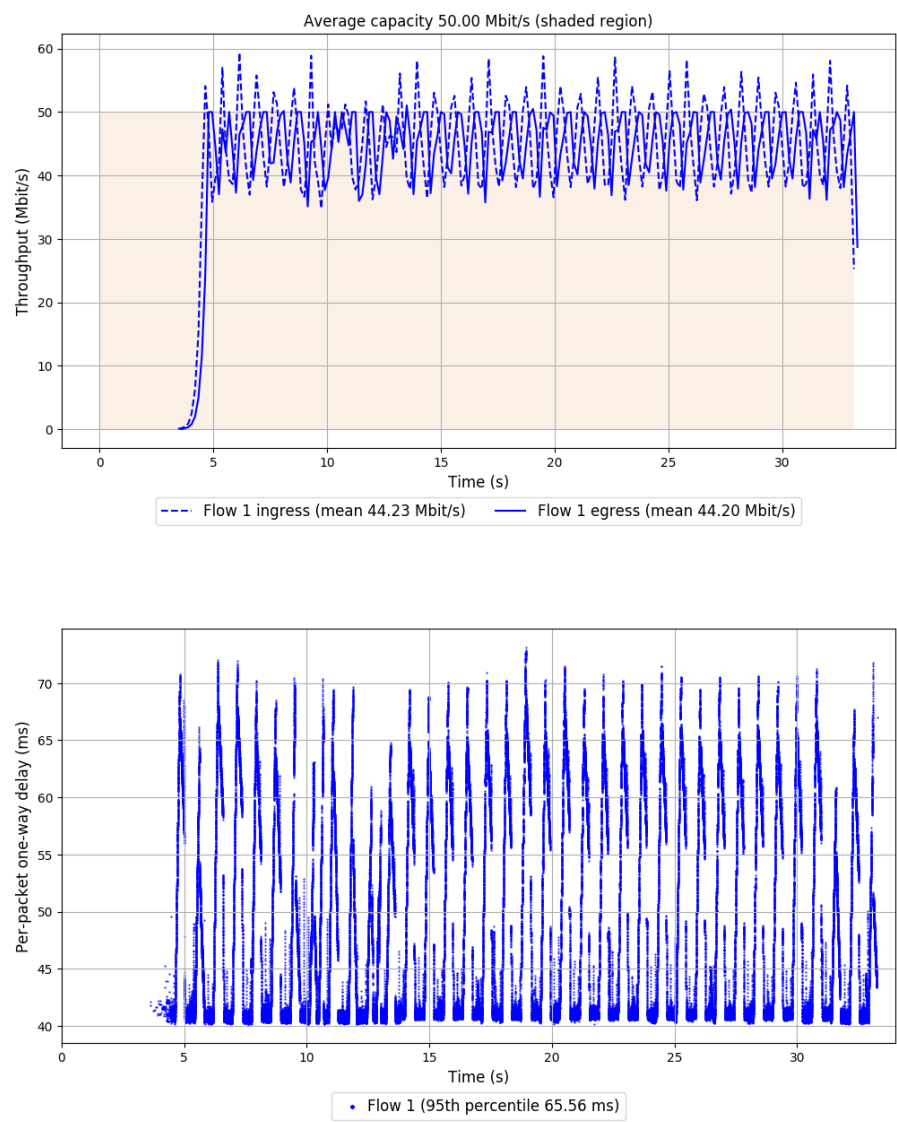
-- Flow 1:

Average throughput: 44.20 Mbit/s

95th percentile per-packet one-way delay: 65.556 ms

Loss rate: 0.14%

Run 1: Report of Eagle-006 — Data Link



Run 2: Statistics of Eagle-006

Start at: 2019-10-27 04:36:05

End at: 2019-10-27 04:36:35

Below is generated by plot.py at 2019-10-27 04:57:33

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 45.03 Mbit/s (90.1% utilization)

95th percentile per-packet one-way delay: 78.784 ms

Loss rate: 0.30%

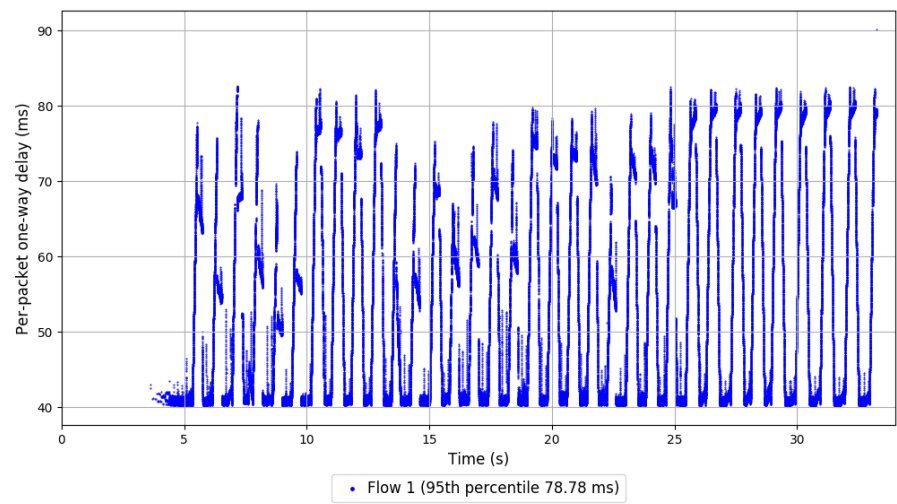
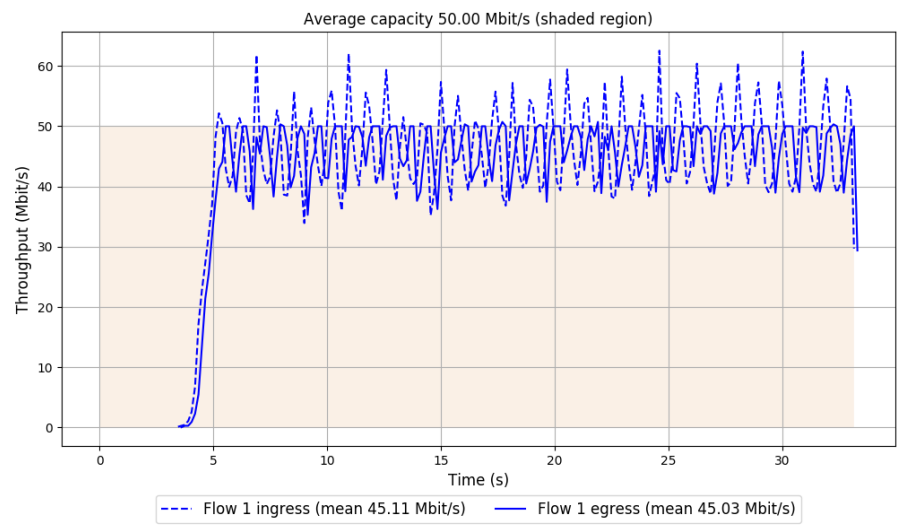
-- Flow 1:

Average throughput: 45.03 Mbit/s

95th percentile per-packet one-way delay: 78.784 ms

Loss rate: 0.30%

Run 2: Report of Eagle-006 — Data Link



Run 3: Statistics of Eagle-006

Start at: 2019-10-27 04:42:07

End at: 2019-10-27 04:42:37

Below is generated by plot.py at 2019-10-27 04:57:33

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 1.19 Mbit/s (2.4% utilization)

95th percentile per-packet one-way delay: 42.300 ms

Loss rate: 0.00%

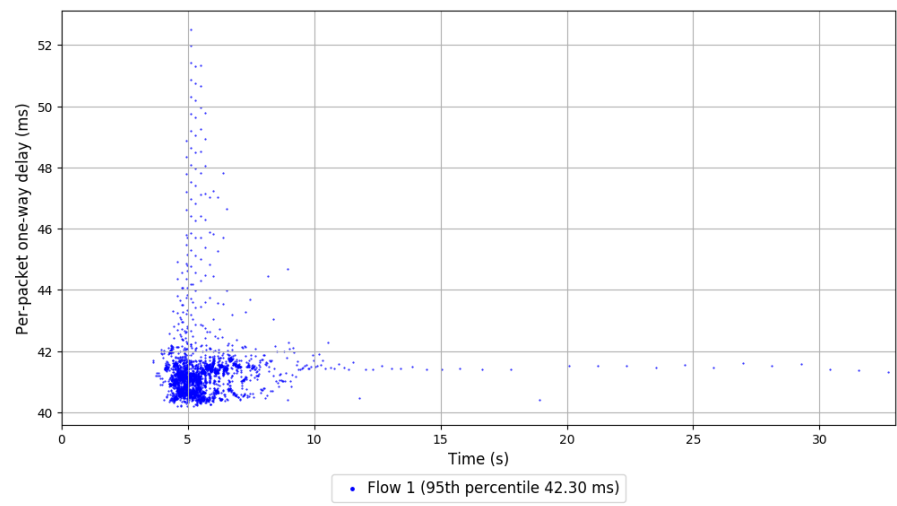
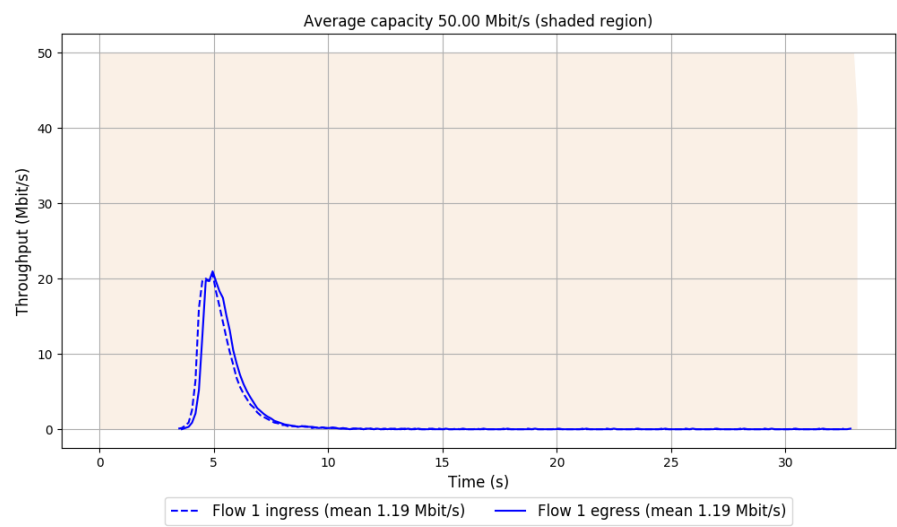
-- Flow 1:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 42.300 ms

Loss rate: 0.00%

Run 3: Report of Eagle-006 — Data Link



Run 1: Statistics of Eagle-007

Start at: 2019-10-27 04:30:37

End at: 2019-10-27 04:31:07

Below is generated by plot.py at 2019-10-27 04:57:34

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 36.20 Mbit/s (72.4% utilization)

95th percentile per-packet one-way delay: 41.955 ms

Loss rate: 0.14%

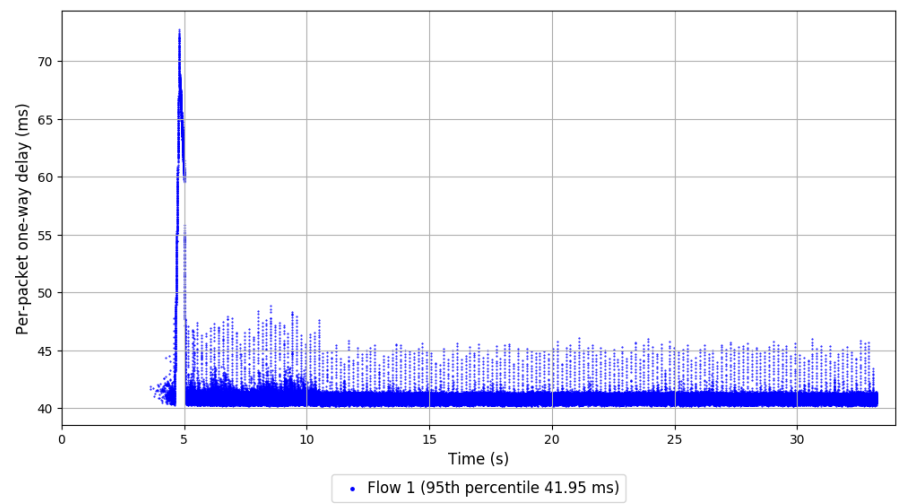
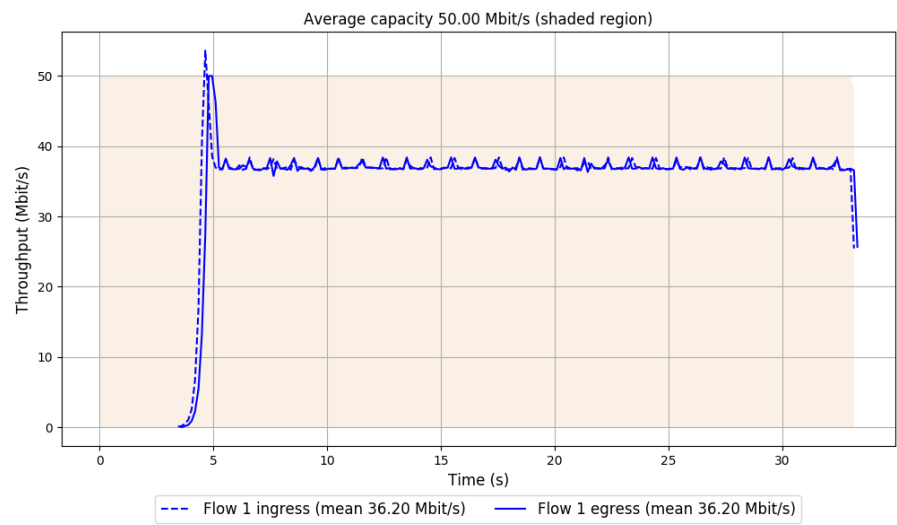
-- Flow 1:

Average throughput: 36.20 Mbit/s

95th percentile per-packet one-way delay: 41.955 ms

Loss rate: 0.14%

Run 1: Report of Eagle-007 — Data Link



Run 2: Statistics of Eagle-007

Start at: 2019-10-27 04:36:41

End at: 2019-10-27 04:37:11

Below is generated by plot.py at 2019-10-27 04:57:34

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 30.80 Mbit/s (61.6% utilization)

95th percentile per-packet one-way delay: 42.997 ms

Loss rate: 0.14%

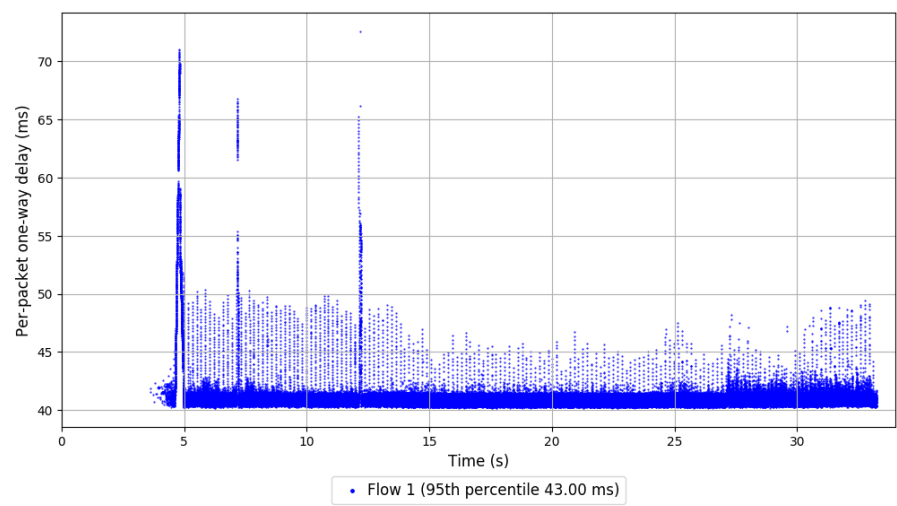
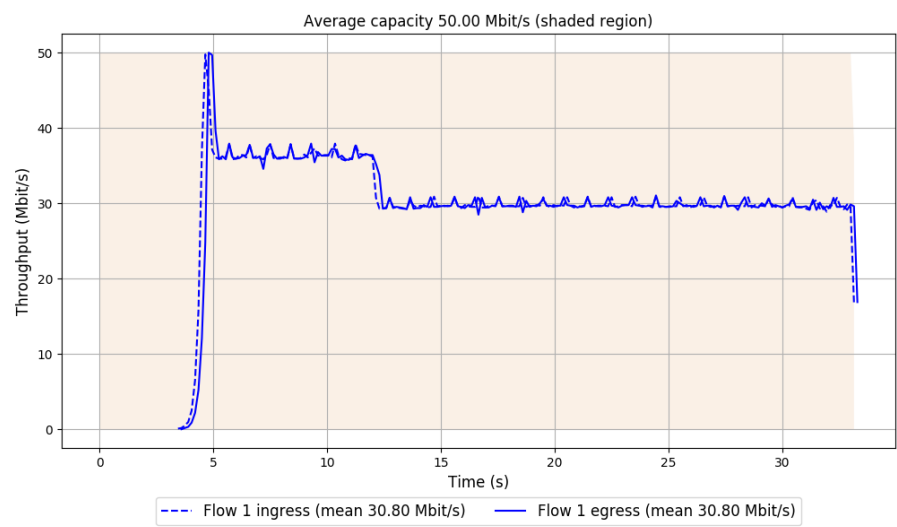
-- Flow 1:

Average throughput: 30.80 Mbit/s

95th percentile per-packet one-way delay: 42.997 ms

Loss rate: 0.14%

Run 2: Report of Eagle-007 — Data Link



Run 3: Statistics of Eagle-007

Start at: 2019-10-27 04:42:42

End at: 2019-10-27 04:43:12

Below is generated by plot.py at 2019-10-27 04:57:39

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 37.02 Mbit/s (74.0% utilization)

95th percentile per-packet one-way delay: 41.794 ms

Loss rate: 0.14%

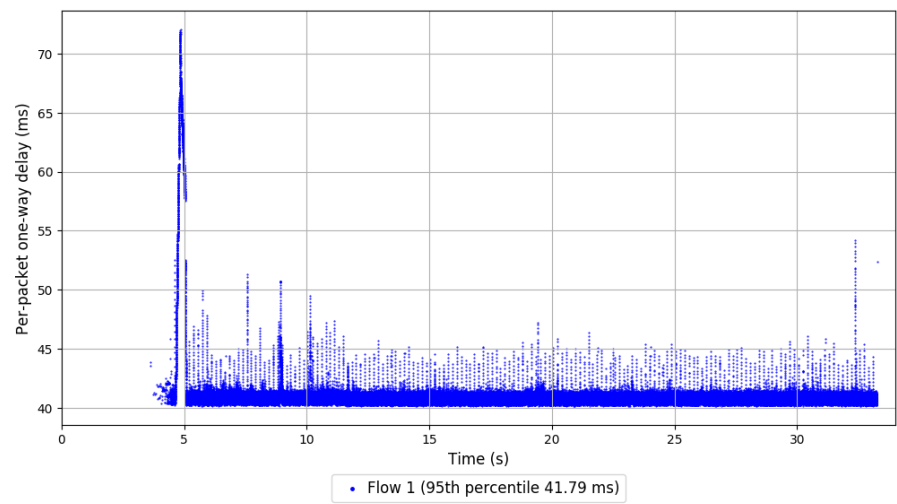
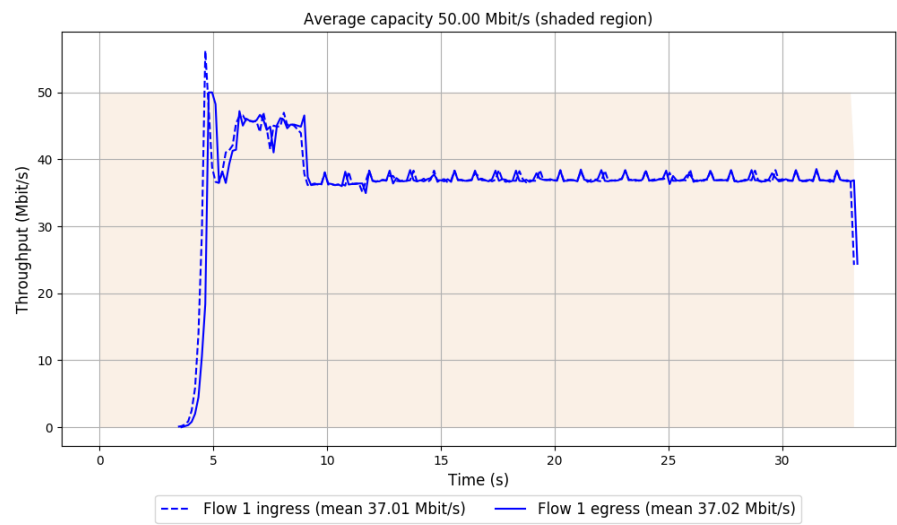
-- Flow 1:

Average throughput: 37.02 Mbit/s

95th percentile per-packet one-way delay: 41.794 ms

Loss rate: 0.14%

Run 3: Report of Eagle-007 — Data Link



Run 1: Statistics of Eagle-008

Start at: 2019-10-27 04:31:14

End at: 2019-10-27 04:31:44

Below is generated by plot.py at 2019-10-27 04:57:53

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 39.15 Mbit/s (78.3% utilization)

95th percentile per-packet one-way delay: 41.749 ms

Loss rate: 0.11%

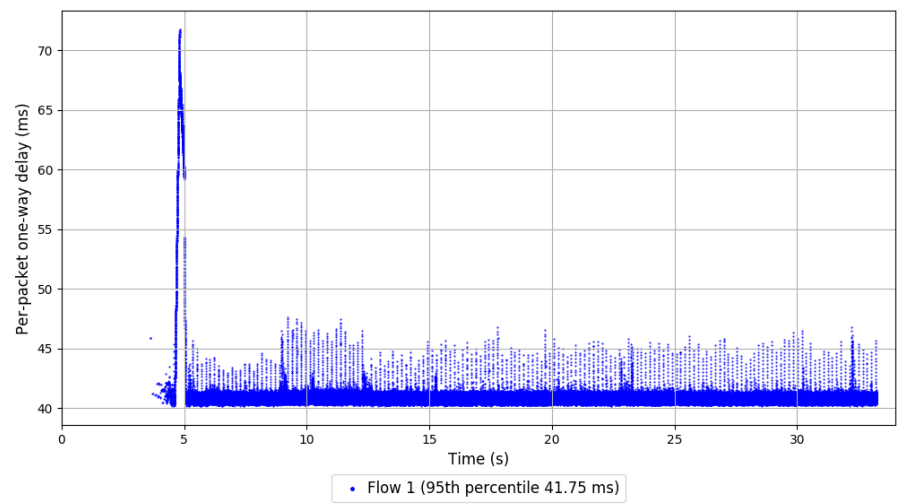
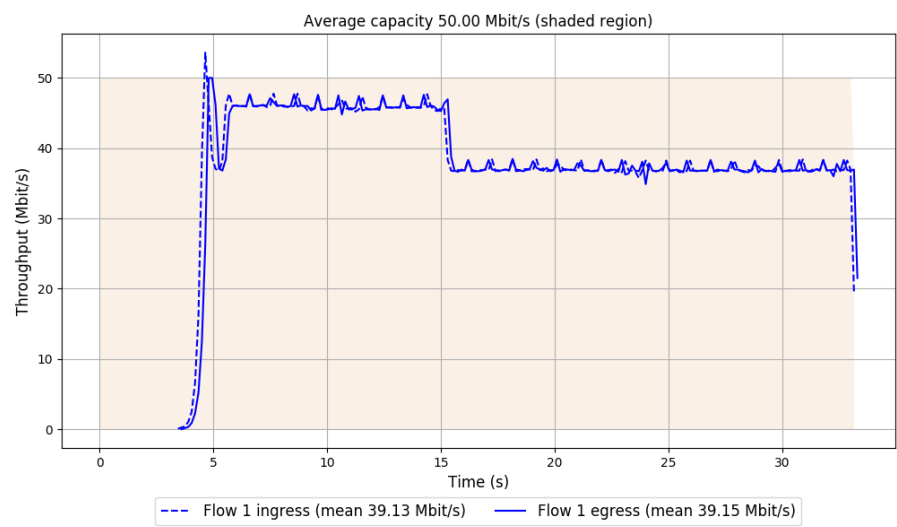
-- Flow 1:

Average throughput: 39.15 Mbit/s

95th percentile per-packet one-way delay: 41.749 ms

Loss rate: 0.11%

Run 1: Report of Eagle-008 — Data Link



Run 2: Statistics of Eagle-008

Start at: 2019-10-27 04:37:17

End at: 2019-10-27 04:37:47

Below is generated by plot.py at 2019-10-27 04:58:02

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 43.18 Mbit/s (86.4% utilization)

95th percentile per-packet one-way delay: 42.026 ms

Loss rate: 0.22%

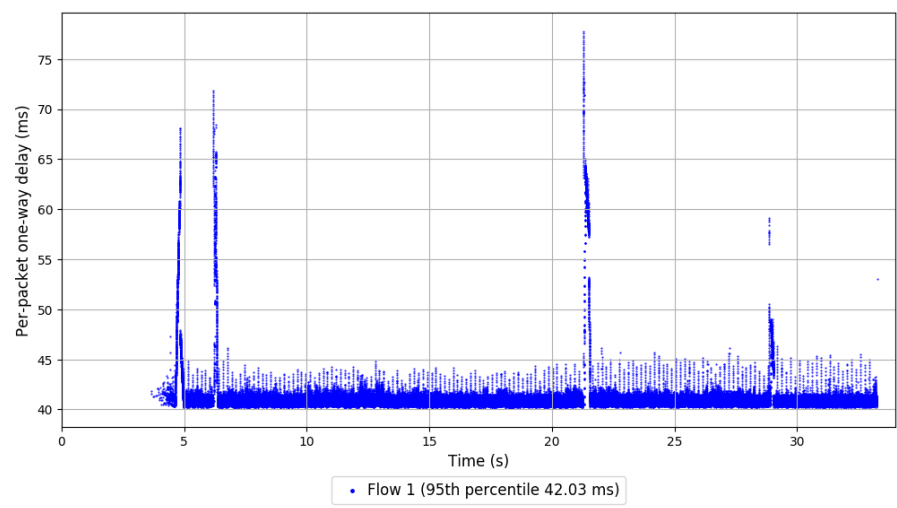
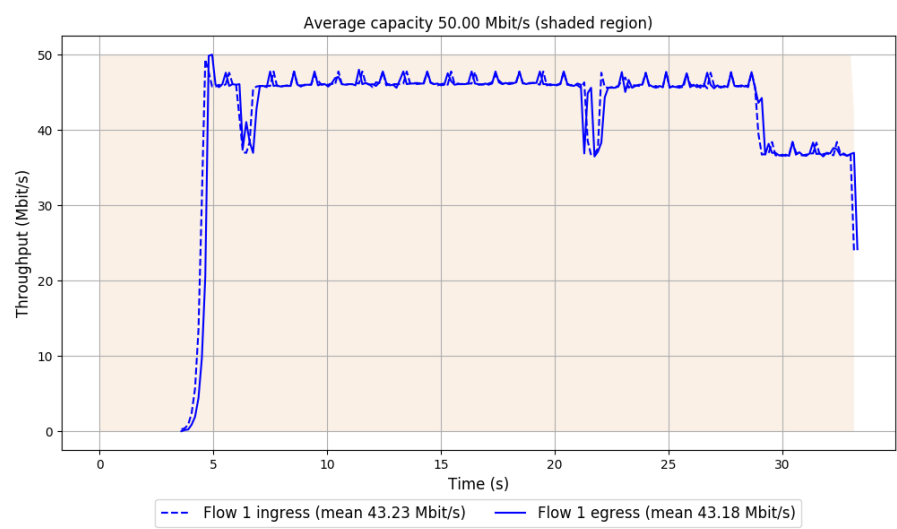
-- Flow 1:

Average throughput: 43.18 Mbit/s

95th percentile per-packet one-way delay: 42.026 ms

Loss rate: 0.22%

Run 2: Report of Eagle-008 — Data Link



Run 3: Statistics of Eagle-008

Start at: 2019-10-27 04:43:18

End at: 2019-10-27 04:43:48

Below is generated by plot.py at 2019-10-27 04:58:02

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 30.47 Mbit/s (60.9% utilization)

95th percentile per-packet one-way delay: 42.081 ms

Loss rate: 0.11%

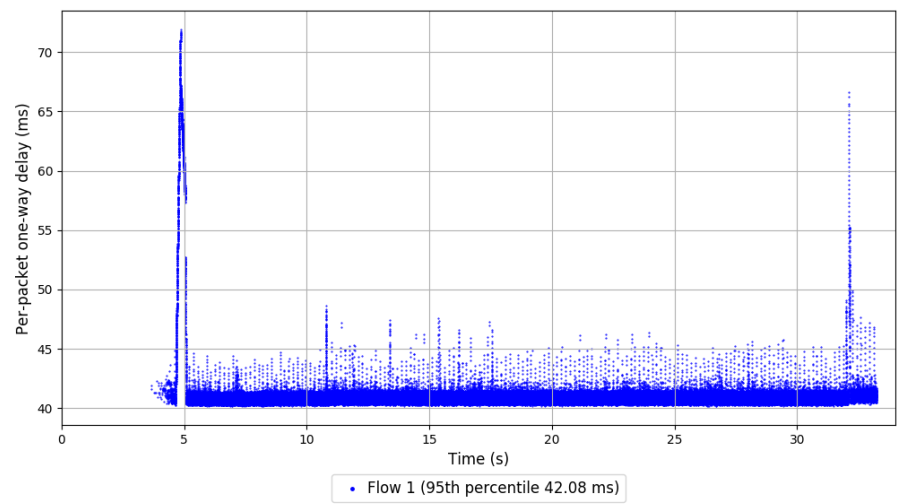
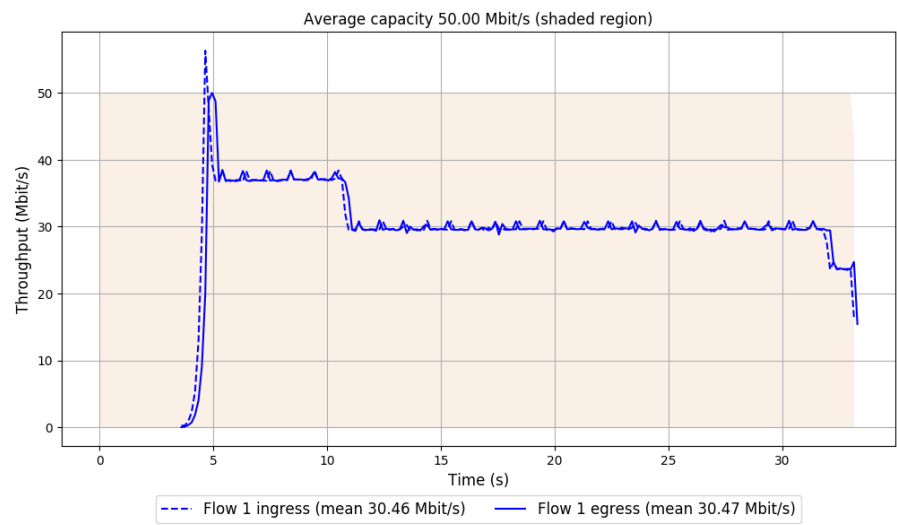
-- Flow 1:

Average throughput: 30.47 Mbit/s

95th percentile per-packet one-way delay: 42.081 ms

Loss rate: 0.11%

Run 3: Report of Eagle-008 — Data Link

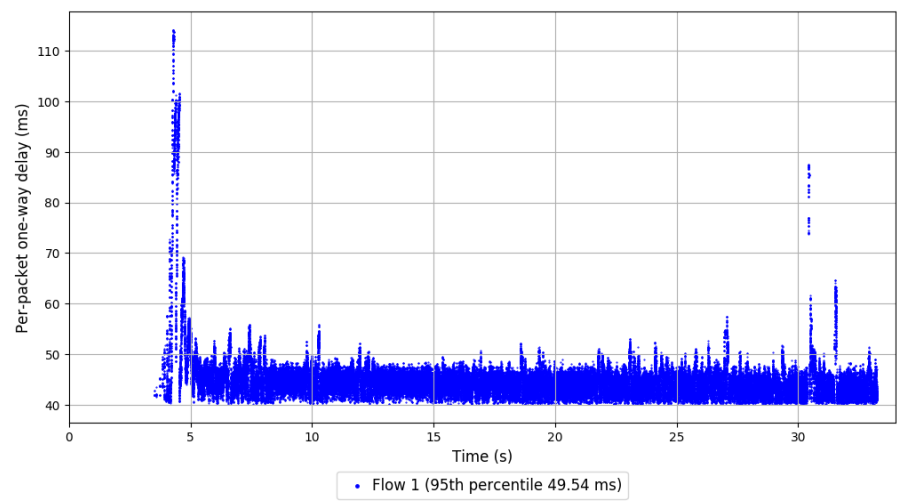
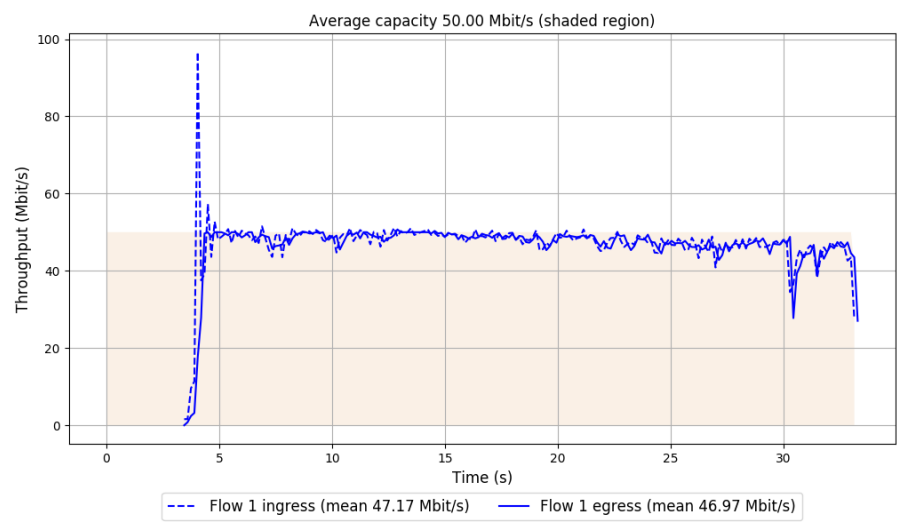


```
Run 1: Statistics of Indigo

Start at: 2019-10-27 04:33:03
End at: 2019-10-27 04:33:33

# Below is generated by plot.py at 2019-10-27 04:58:11
# Datalink statistics
-- Total of 1 flow:
Average capacity: 50.00 Mbit/s
Average throughput: 46.97 Mbit/s (93.9% utilization)
95th percentile per-packet one-way delay: 49.542 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 46.97 Mbit/s
95th percentile per-packet one-way delay: 49.542 ms
Loss rate: 0.55%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-10-27 04:39:07

End at: 2019-10-27 04:39:37

Below is generated by plot.py at 2019-10-27 04:58:23

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 45.28 Mbit/s (90.6% utilization)

95th percentile per-packet one-way delay: 48.248 ms

Loss rate: 0.16%

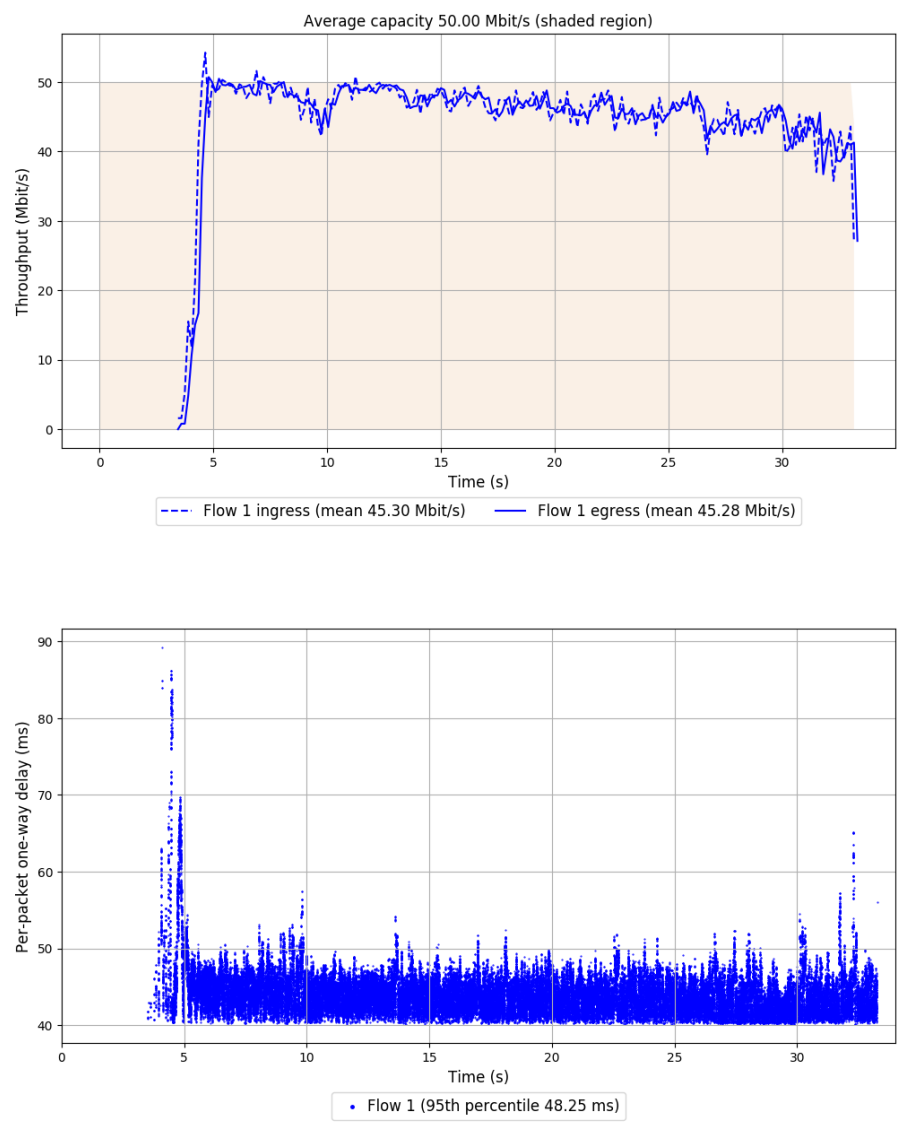
-- Flow 1:

Average throughput: 45.28 Mbit/s

95th percentile per-packet one-way delay: 48.248 ms

Loss rate: 0.16%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-10-27 04:45:07

End at: 2019-10-27 04:45:37

Below is generated by plot.py at 2019-10-27 04:58:24

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 47.27 Mbit/s (94.5% utilization)

95th percentile per-packet one-way delay: 48.849 ms

Loss rate: 0.59%

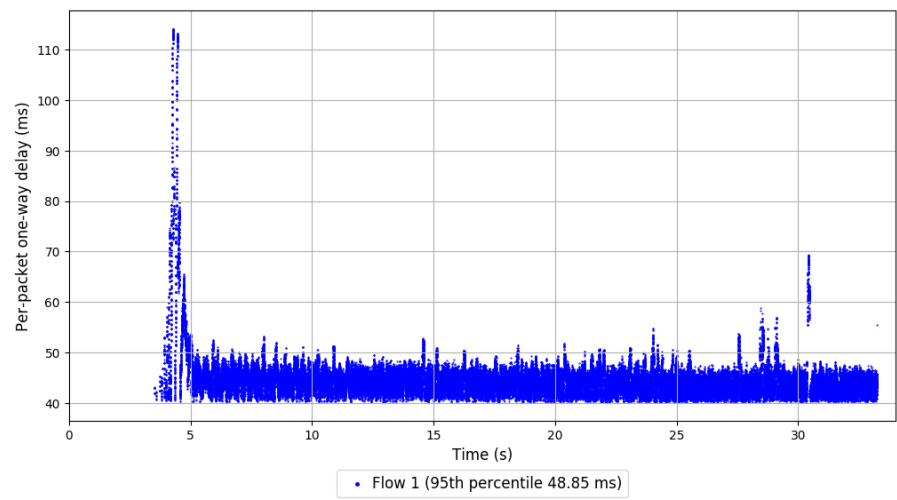
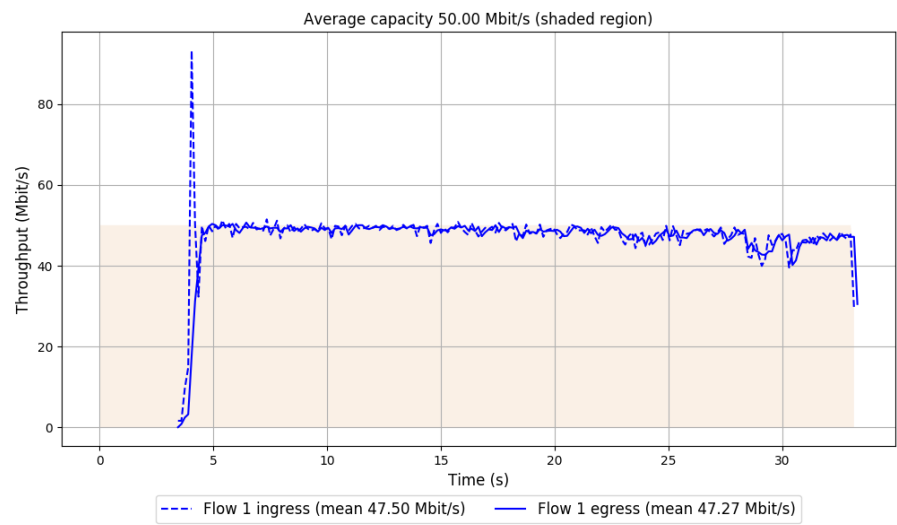
-- Flow 1:

Average throughput: 47.27 Mbit/s

95th percentile per-packet one-way delay: 48.849 ms

Loss rate: 0.59%

Run 3: Report of Indigo — Data Link



Run 1: Statistics of Synthesized-BBR

Start at: 2019-10-27 04:31:50

End at: 2019-10-27 04:32:20

Below is generated by plot.py at 2019-10-27 04:58:27

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 40.45 Mbit/s (80.9% utilization)

95th percentile per-packet one-way delay: 80.611 ms

Loss rate: 0.11%

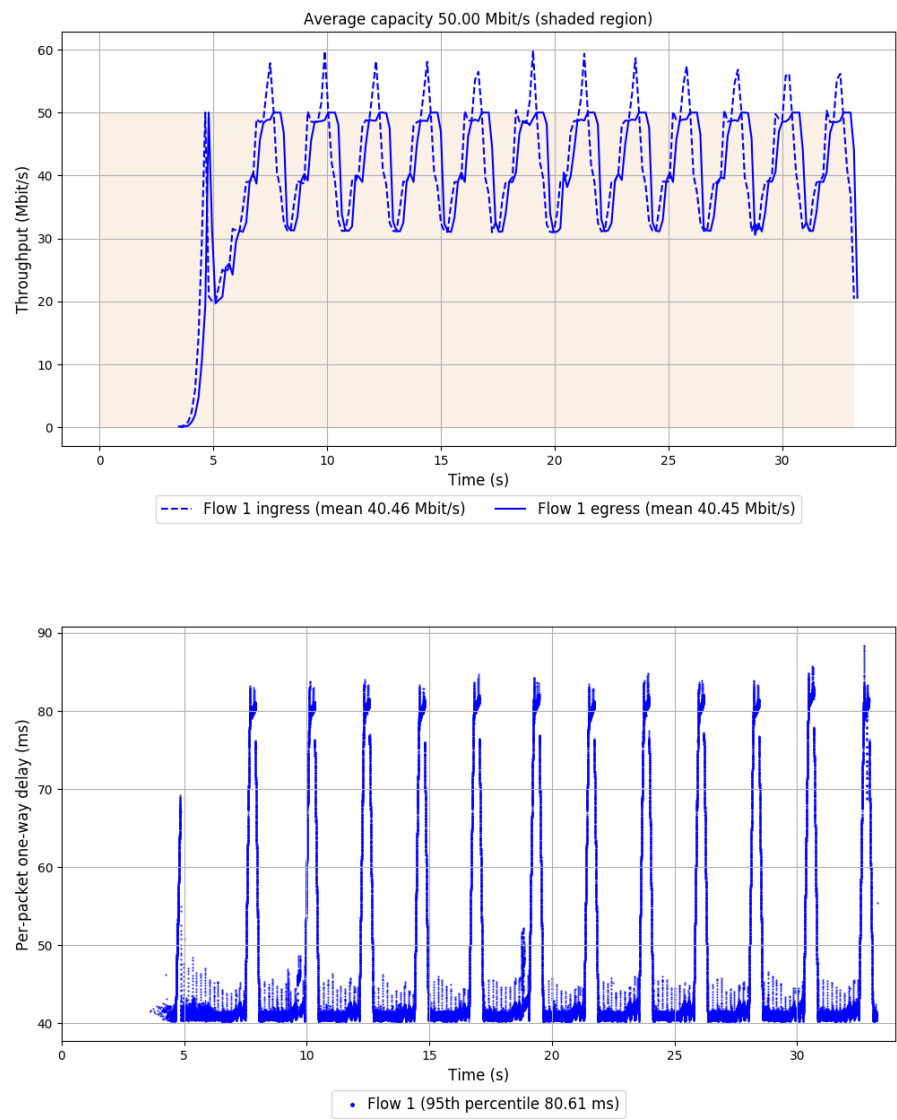
-- Flow 1:

Average throughput: 40.45 Mbit/s

95th percentile per-packet one-way delay: 80.611 ms

Loss rate: 0.11%

Run 1: Report of Synthesized-BBR — Data Link



Run 2: Statistics of Synthesized-BBR

Start at: 2019-10-27 04:37:54

End at: 2019-10-27 04:38:24

Below is generated by plot.py at 2019-10-27 04:58:32

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 42.37 Mbit/s (84.7% utilization)

95th percentile per-packet one-way delay: 76.730 ms

Loss rate: 0.16%

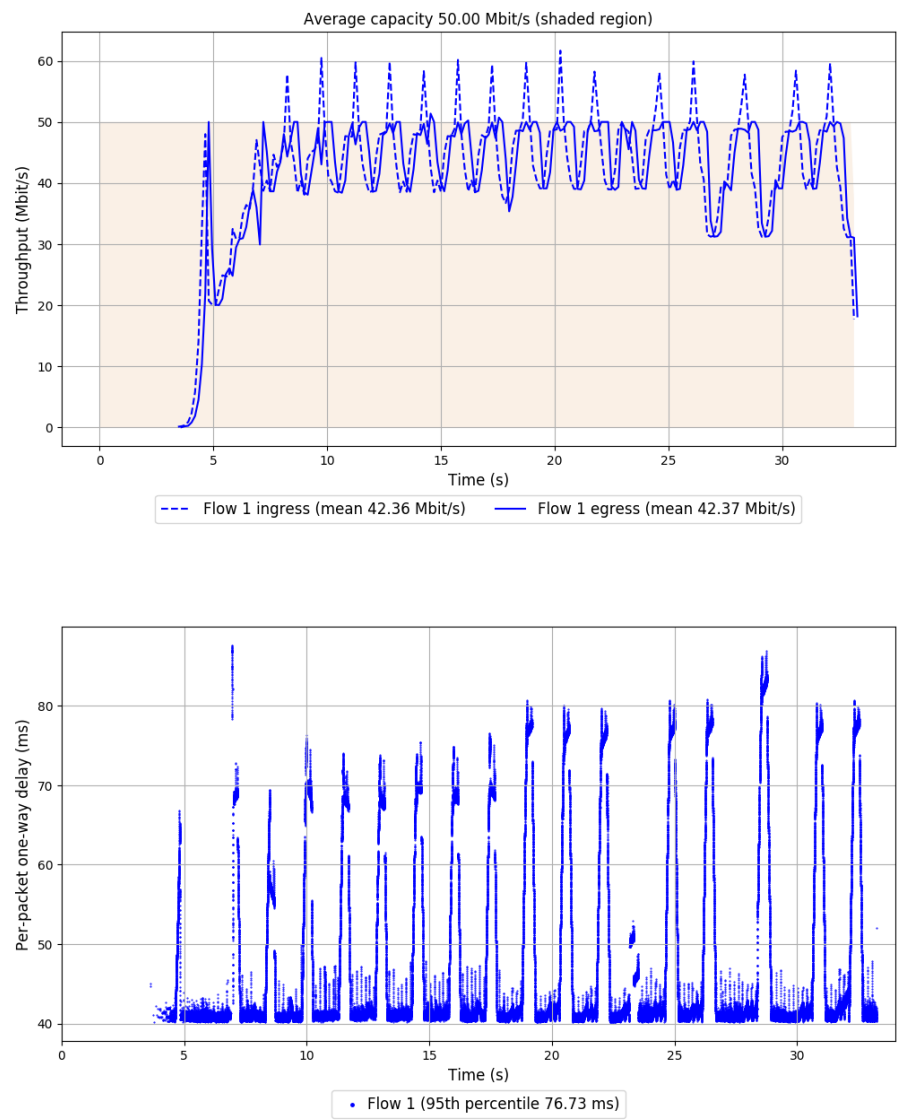
-- Flow 1:

Average throughput: 42.37 Mbit/s

95th percentile per-packet one-way delay: 76.730 ms

Loss rate: 0.16%

Run 2: Report of Synthesized-BBR — Data Link



Run 3: Statistics of Synthesized-BBR

Start at: 2019-10-27 04:43:54

End at: 2019-10-27 04:44:24

Below is generated by plot.py at 2019-10-27 04:58:34

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 41.64 Mbit/s (83.3% utilization)

95th percentile per-packet one-way delay: 73.632 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 41.64 Mbit/s

95th percentile per-packet one-way delay: 73.632 ms

Loss rate: 0.41%

Run 3: Report of Synthesized-BBR — Data Link

