

Pantheon Report

Generated at 2018-02-27 08:51:49 (UTC).

Tested in mahimahi: mm-delay 45 mm-link 114.68mbps.trace 114.68mbps.trace
--uplink-queue=droptail --uplink-queue-args=packets=450

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

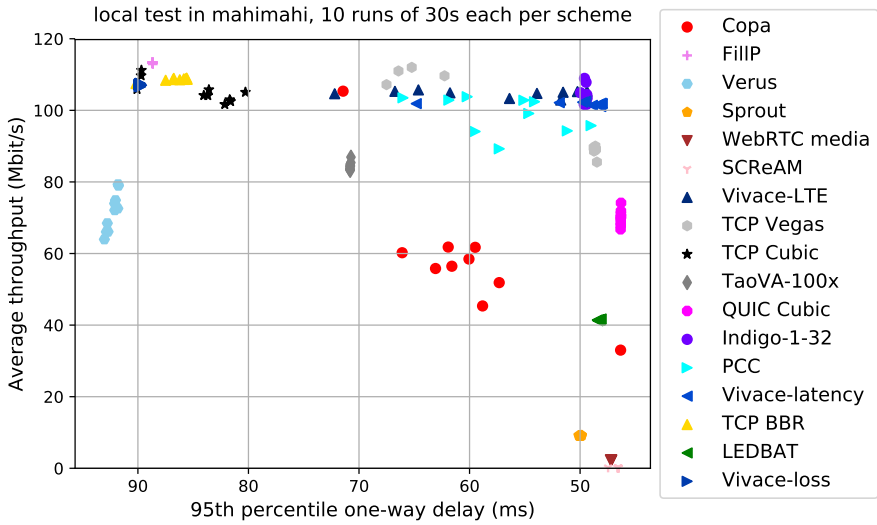
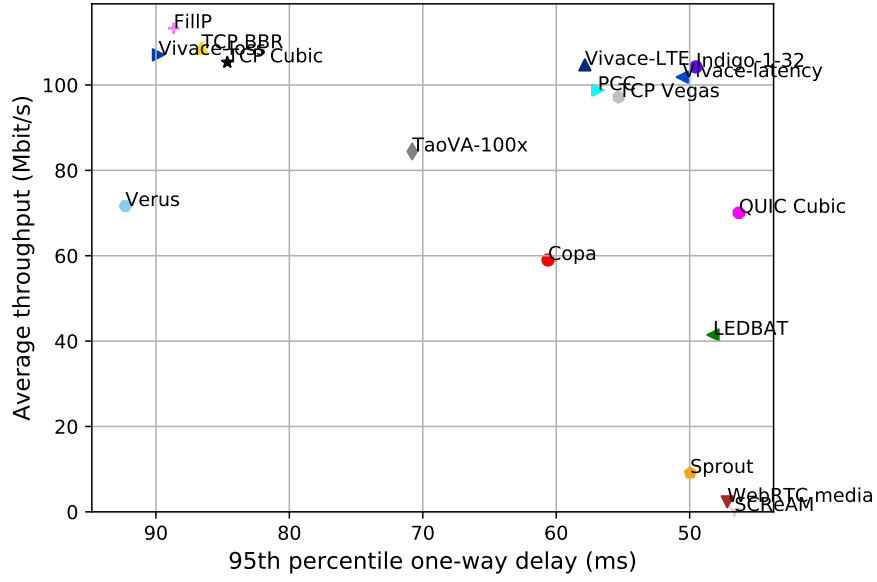
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

Tested BBR with qdisc of Fair Queuing (fq), and other schemes with the default Linux qdisc (pfifo_fast).

Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
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/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  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 @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

local test in mahimahi, 10 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	10	108.60	86.59	1.44
TCP Cubic	10	105.31	84.65	0.33
LEDBAT	10	41.47	48.25	0.31
PCC	10	98.79	56.89	0.64
QUIC Cubic	9	70.05	46.32	0.17
SCReAM	10	0.22	46.65	0.13
WebRTC media	10	2.34	47.18	0.17
Sprout	10	9.11	49.96	0.15
TaoVA-100x	10	84.43	70.79	3.10
TCP Vegas	10	97.15	55.33	0.29
Verus	10	71.64	92.29	42.12
Copa	10	59.01	60.62	8.50
FillP	10	113.30	88.68	17.73
Indigo-1-32	10	104.24	49.53	0.16
Vivace-latency	10	101.85	50.56	0.86
Vivace-loss	10	107.06	89.81	1.94
Vivace-LTE	10	104.71	57.85	0.88

Run 1: Statistics of TCP BBR

Start at: 2018-02-27 06:17:32

End at: 2018-02-27 06:18:02

Below is generated by plot.py at 2018-02-27 08:11:20

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 108.64 Mbit/s (94.7% utilization)

95th percentile per-packet one-way delay: 85.785 ms

Loss rate: 1.37%

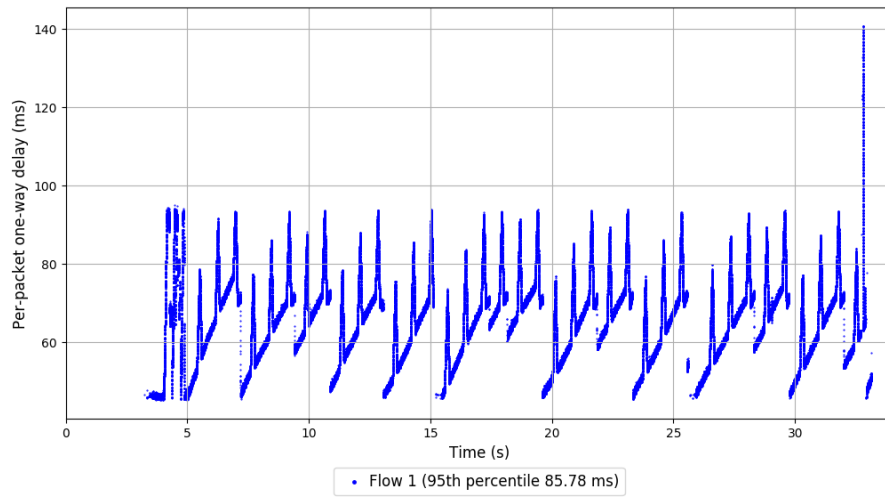
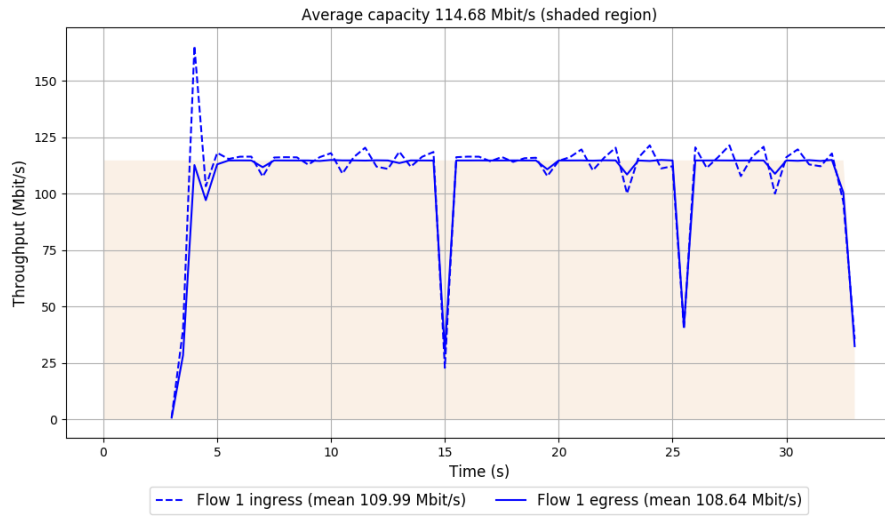
-- Flow 1:

Average throughput: 108.64 Mbit/s

95th percentile per-packet one-way delay: 85.785 ms

Loss rate: 1.37%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-27 06:29:23

End at: 2018-02-27 06:29:53

Below is generated by plot.py at 2018-02-27 08:11:21

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 109.02 Mbit/s (95.1% utilization)

95th percentile per-packet one-way delay: 85.594 ms

Loss rate: 1.43%

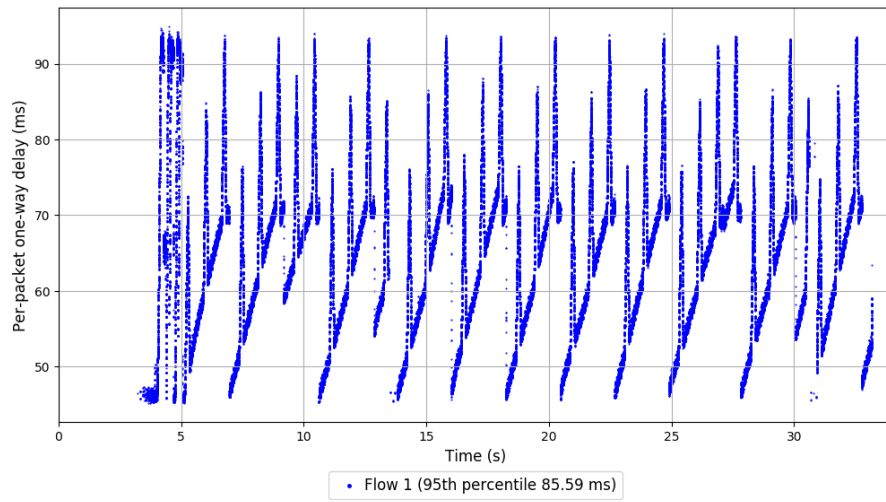
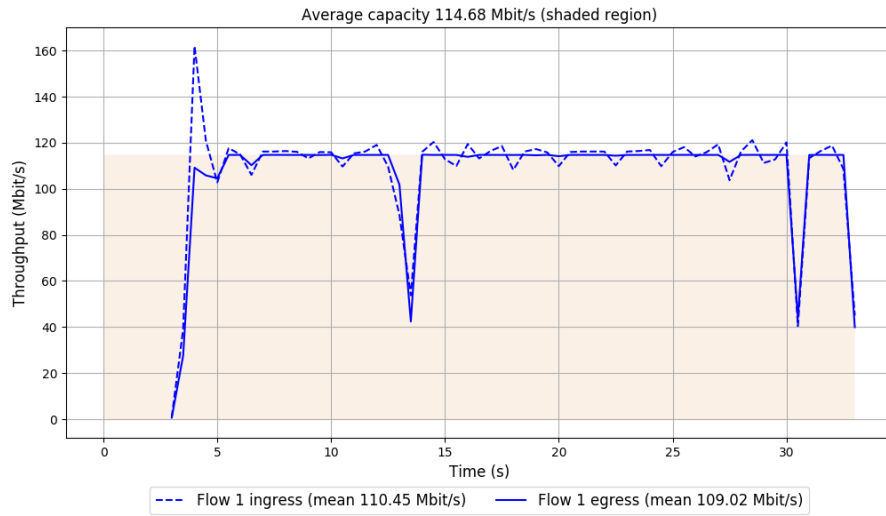
-- Flow 1:

Average throughput: 109.02 Mbit/s

95th percentile per-packet one-way delay: 85.594 ms

Loss rate: 1.43%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-27 06:41:15

End at: 2018-02-27 06:41:45

Below is generated by plot.py at 2018-02-27 08:11:25

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 108.85 Mbit/s (94.9% utilization)

95th percentile per-packet one-way delay: 85.674 ms

Loss rate: 1.15%

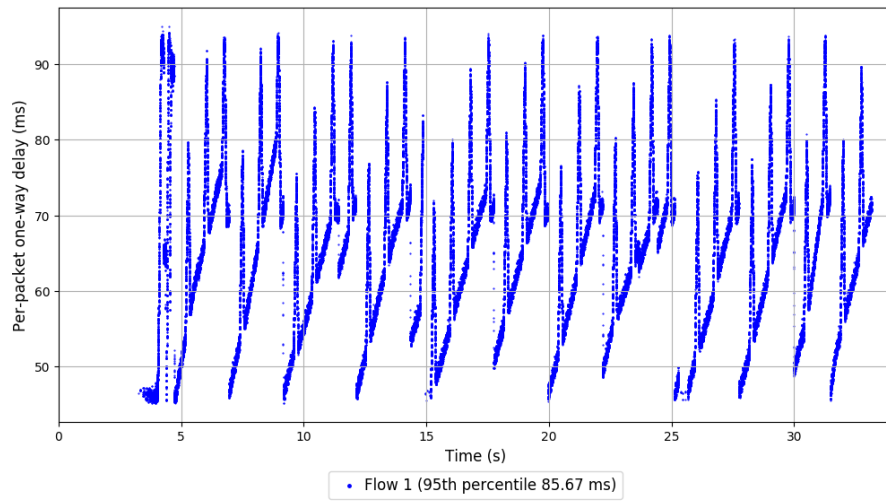
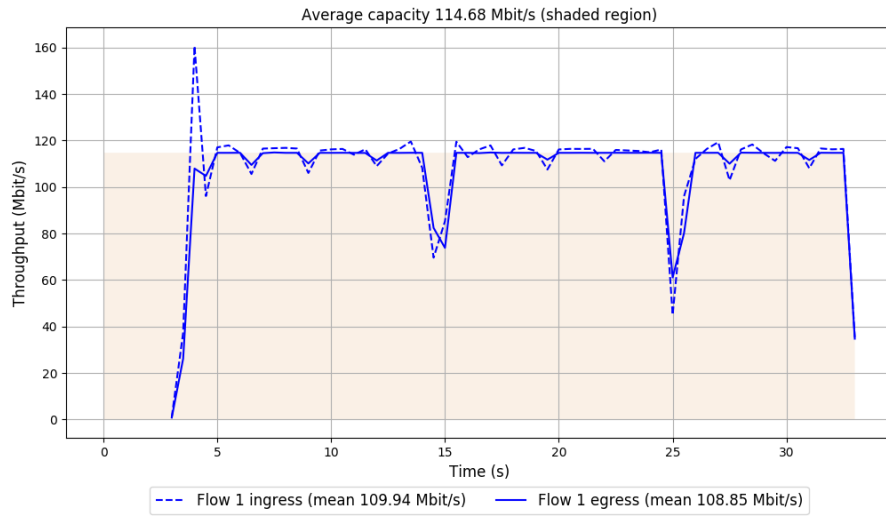
-- Flow 1:

Average throughput: 108.85 Mbit/s

95th percentile per-packet one-way delay: 85.674 ms

Loss rate: 1.15%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-27 06:53:06

End at: 2018-02-27 06:53:36

Below is generated by plot.py at 2018-02-27 08:11:25

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 108.61 Mbit/s (94.7% utilization)

95th percentile per-packet one-way delay: 86.812 ms

Loss rate: 1.57%

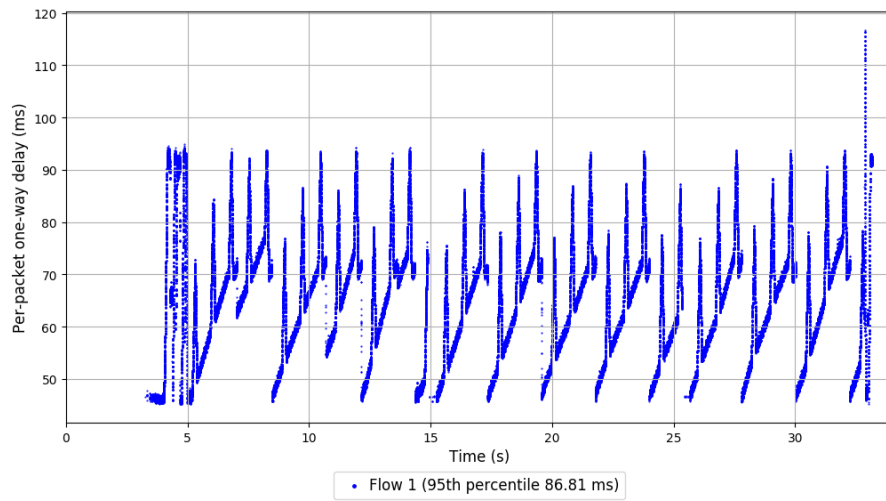
-- Flow 1:

Average throughput: 108.61 Mbit/s

95th percentile per-packet one-way delay: 86.812 ms

Loss rate: 1.57%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-27 07:05:01

End at: 2018-02-27 07:05:31

Below is generated by plot.py at 2018-02-27 08:11:26

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 108.94 Mbit/s (95.0% utilization)

95th percentile per-packet one-way delay: 86.758 ms

Loss rate: 1.44%

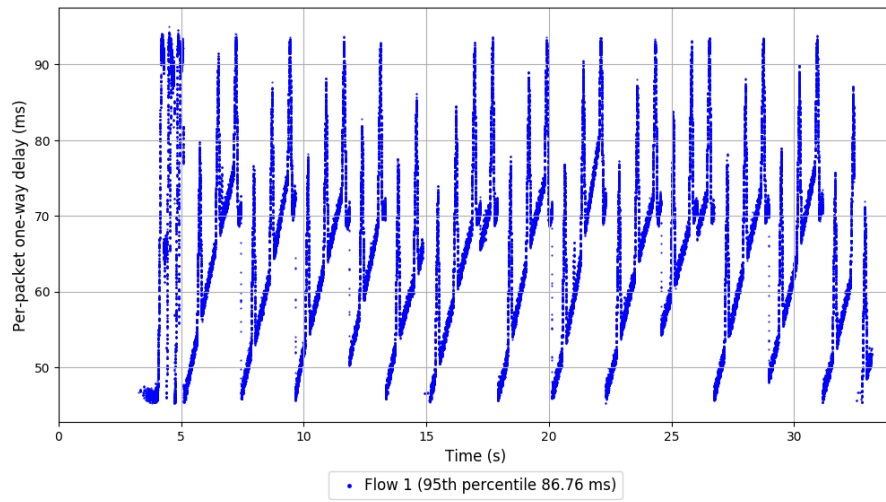
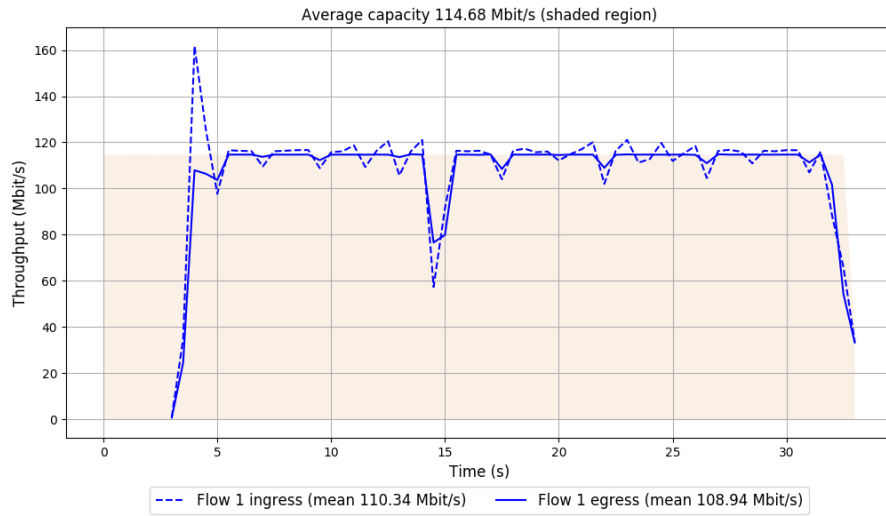
-- Flow 1:

Average throughput: 108.94 Mbit/s

95th percentile per-packet one-way delay: 86.758 ms

Loss rate: 1.44%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-27 07:16:55

End at: 2018-02-27 07:17:25

Below is generated by plot.py at 2018-02-27 08:11:26

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 108.79 Mbit/s (94.9% utilization)

95th percentile per-packet one-way delay: 85.849 ms

Loss rate: 1.38%

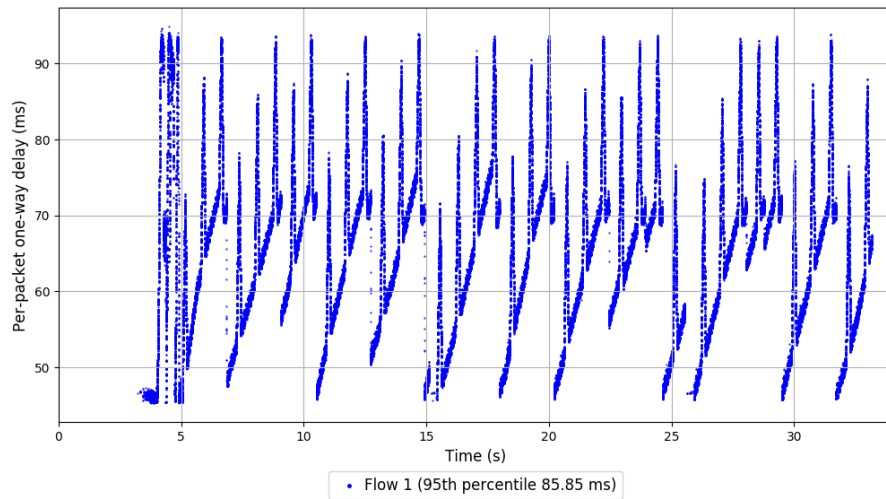
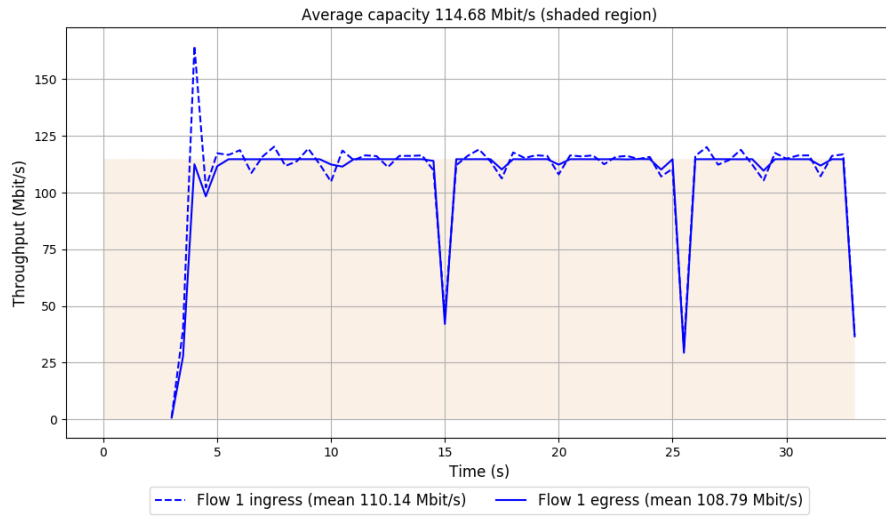
-- Flow 1:

Average throughput: 108.79 Mbit/s

95th percentile per-packet one-way delay: 85.849 ms

Loss rate: 1.38%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-27 07:29:07

End at: 2018-02-27 07:29:37

Below is generated by plot.py at 2018-02-27 08:11:26

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 108.67 Mbit/s (94.8% utilization)

95th percentile per-packet one-way delay: 85.539 ms

Loss rate: 1.40%

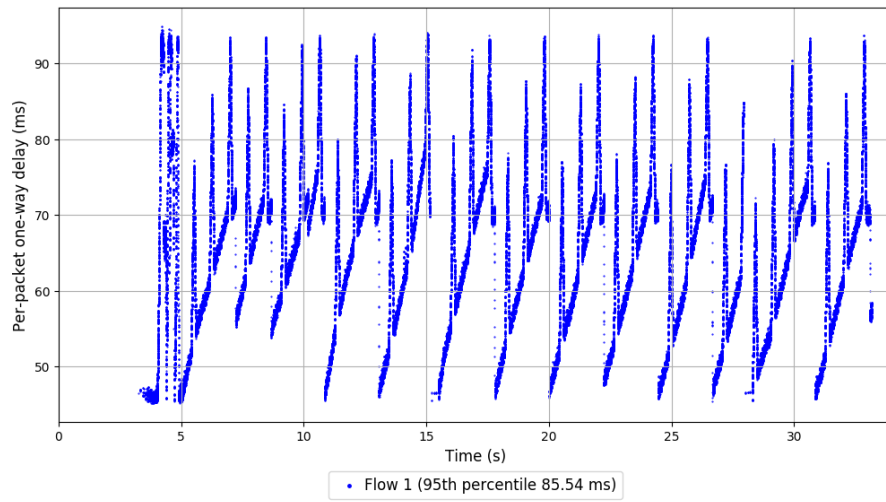
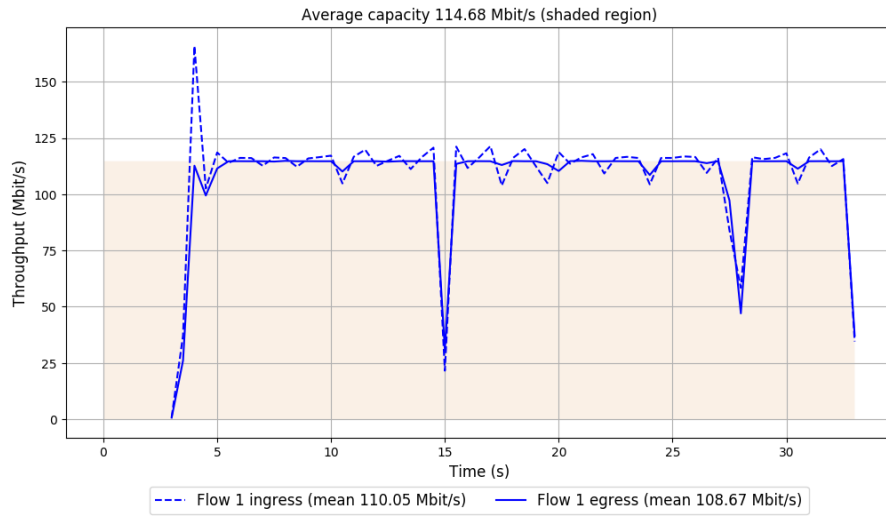
-- Flow 1:

Average throughput: 108.67 Mbit/s

95th percentile per-packet one-way delay: 85.539 ms

Loss rate: 1.40%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-27 07:41:00

End at: 2018-02-27 07:41:30

Below is generated by plot.py at 2018-02-27 08:11:26

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 108.55 Mbit/s (94.7% utilization)

95th percentile per-packet one-way delay: 86.213 ms

Loss rate: 1.43%

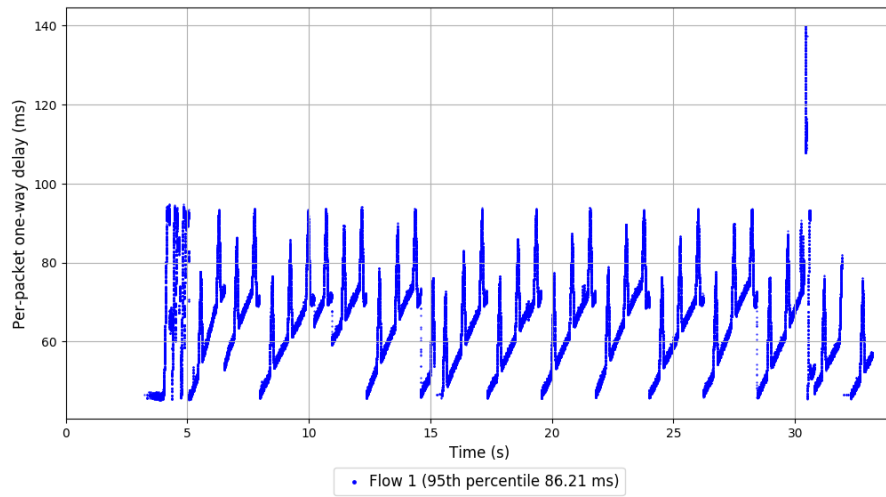
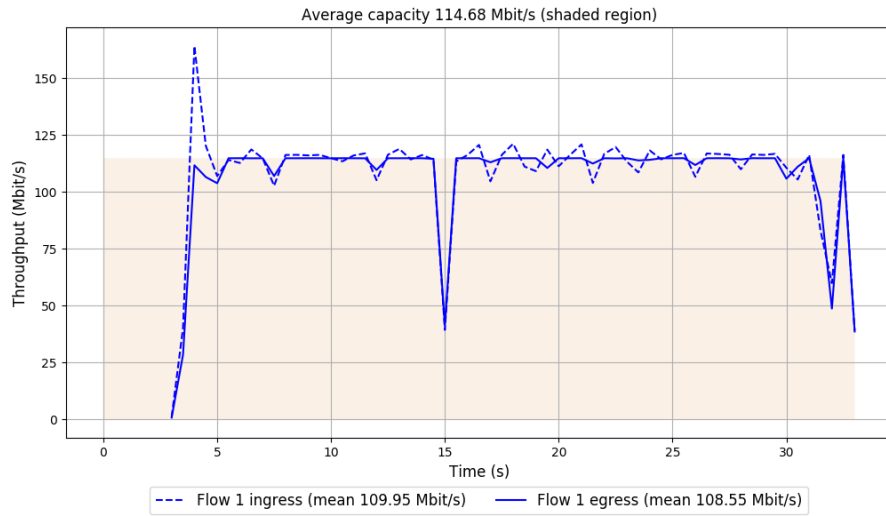
-- Flow 1:

Average throughput: 108.55 Mbit/s

95th percentile per-packet one-way delay: 86.213 ms

Loss rate: 1.43%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-27 07:52:53

End at: 2018-02-27 07:53:23

Below is generated by plot.py at 2018-02-27 08:13:44

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 108.41 Mbit/s (94.5% utilization)

95th percentile per-packet one-way delay: 87.491 ms

Loss rate: 1.52%

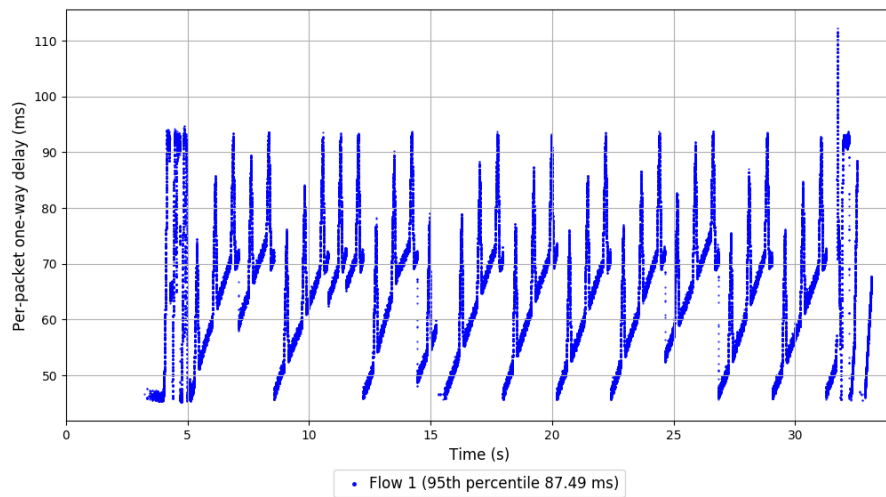
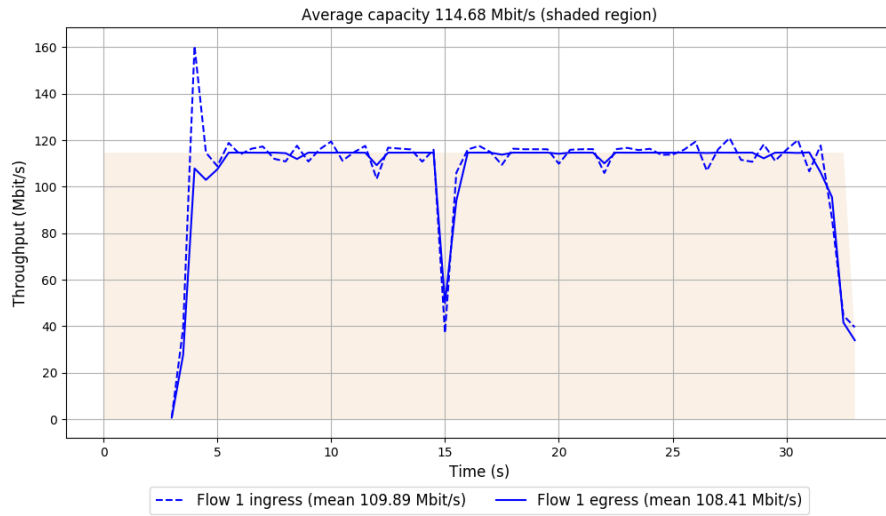
-- Flow 1:

Average throughput: 108.41 Mbit/s

95th percentile per-packet one-way delay: 87.491 ms

Loss rate: 1.52%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-27 08:04:43

End at: 2018-02-27 08:05:13

Below is generated by plot.py at 2018-02-27 08:13:44

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 107.50 Mbit/s (93.7% utilization)

95th percentile per-packet one-way delay: 90.171 ms

Loss rate: 1.72%

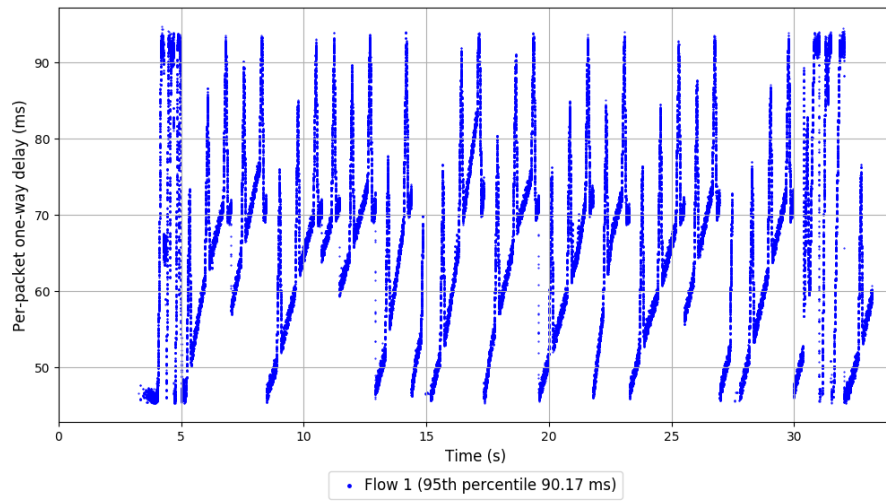
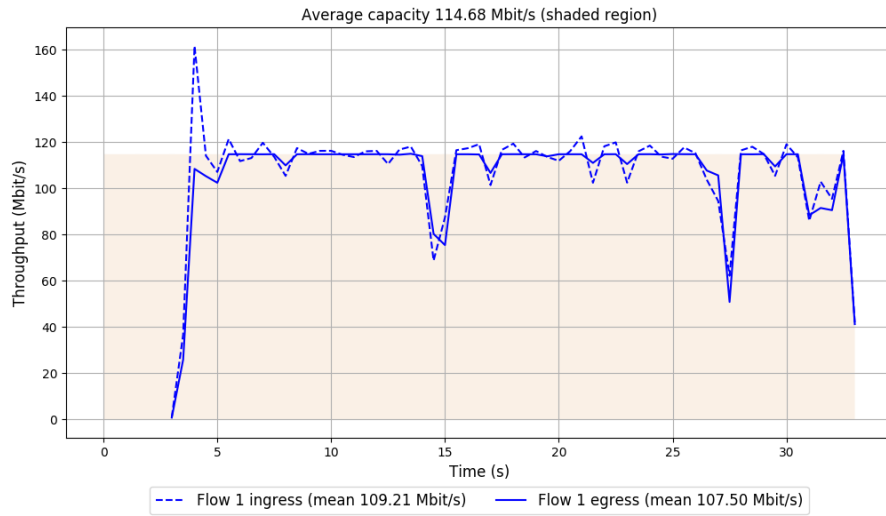
-- Flow 1:

Average throughput: 107.50 Mbit/s

95th percentile per-packet one-way delay: 90.171 ms

Loss rate: 1.72%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-27 06:14:21

End at: 2018-02-27 06:14:51

Below is generated by plot.py at 2018-02-27 08:13:44

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 101.66 Mbit/s (88.6% utilization)

95th percentile per-packet one-way delay: 82.142 ms

Loss rate: 0.31%

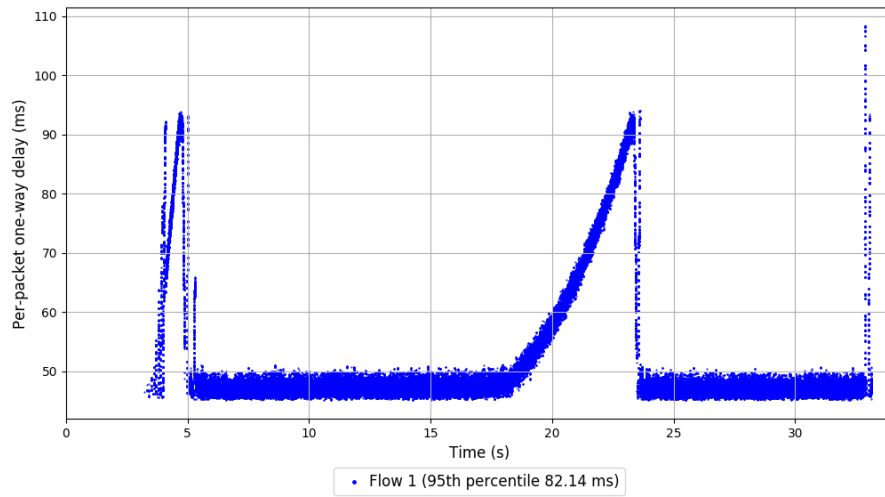
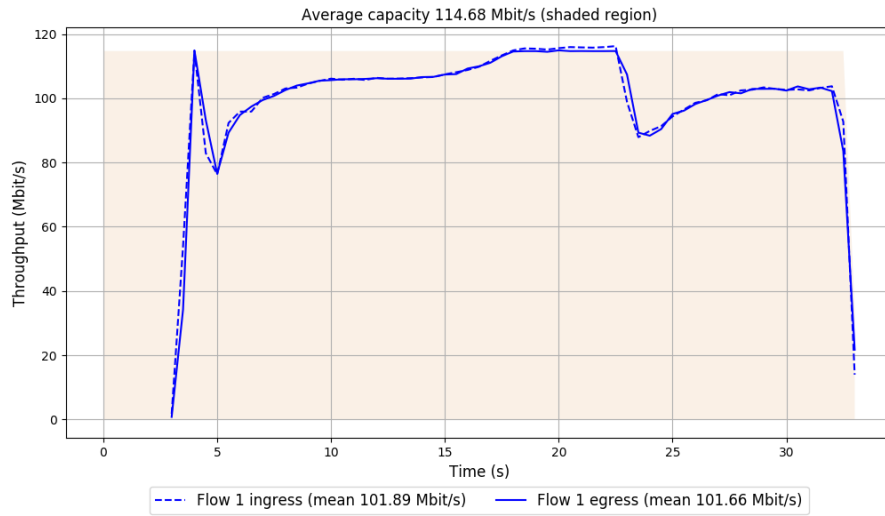
-- Flow 1:

Average throughput: 101.66 Mbit/s

95th percentile per-packet one-way delay: 82.142 ms

Loss rate: 0.31%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-27 06:26:12

End at: 2018-02-27 06:26:42

Below is generated by plot.py at 2018-02-27 08:13:44

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 105.77 Mbit/s (92.2% utilization)

95th percentile per-packet one-way delay: 83.580 ms

Loss rate: 0.16%

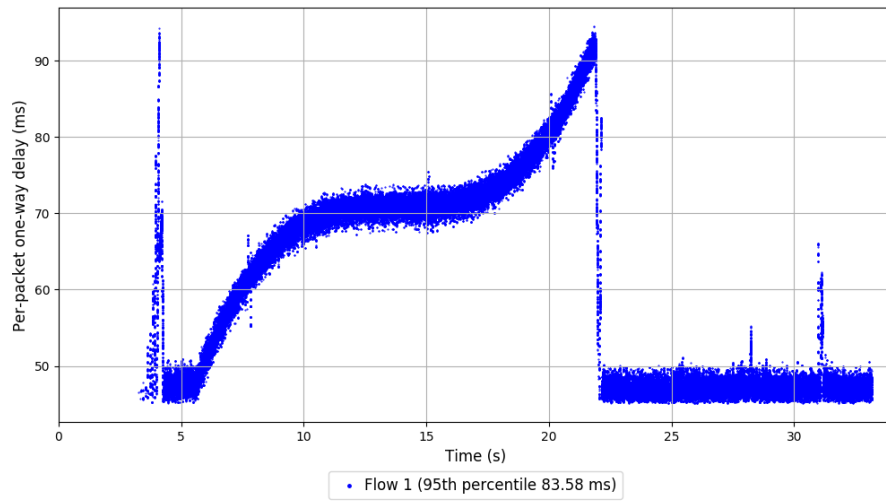
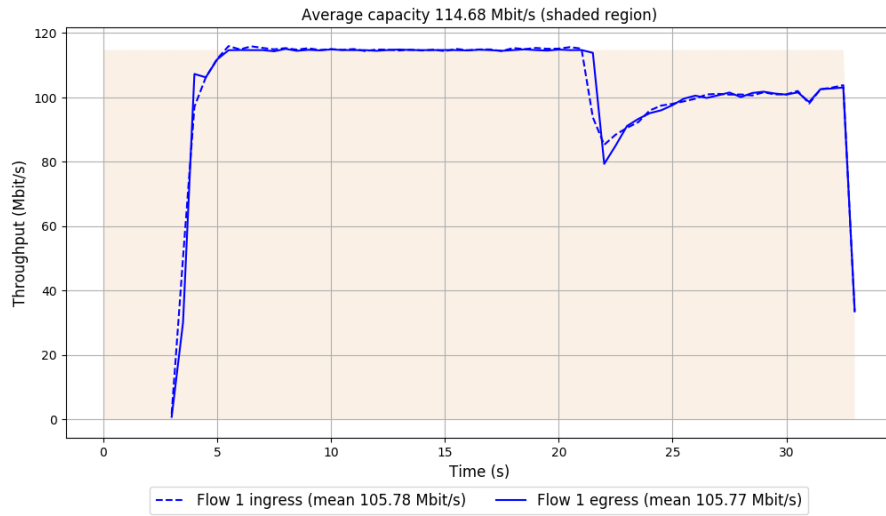
-- Flow 1:

Average throughput: 105.77 Mbit/s

95th percentile per-packet one-way delay: 83.580 ms

Loss rate: 0.16%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-27 06:38:04

End at: 2018-02-27 06:38:34

Below is generated by plot.py at 2018-02-27 08:13:44

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 102.98 Mbit/s (89.8% utilization)

95th percentile per-packet one-way delay: 81.696 ms

Loss rate: 0.24%

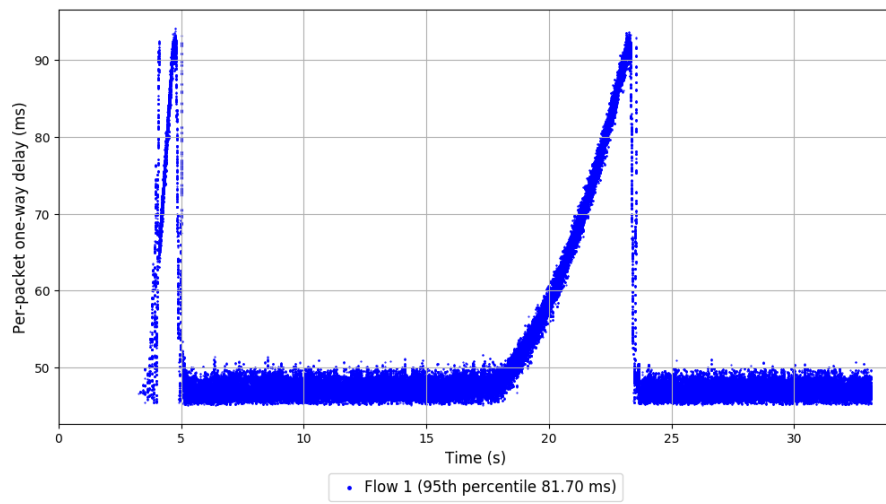
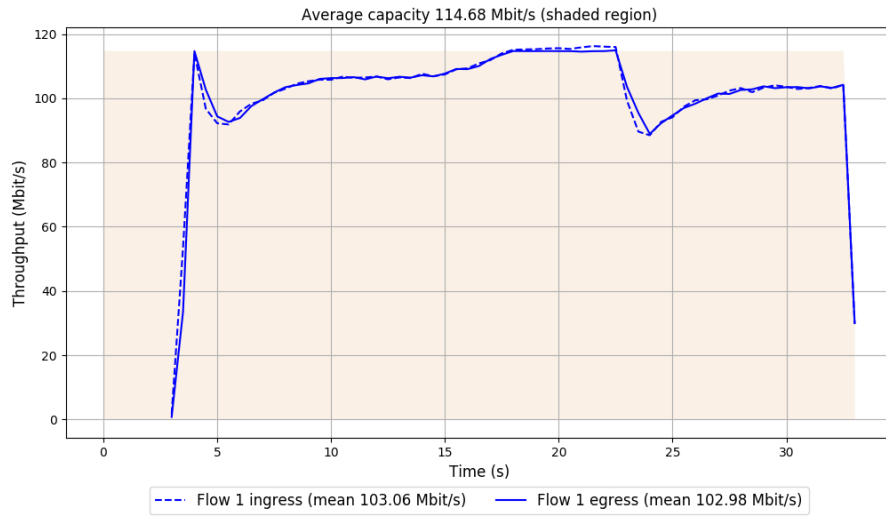
-- Flow 1:

Average throughput: 102.98 Mbit/s

95th percentile per-packet one-way delay: 81.696 ms

Loss rate: 0.24%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-27 06:49:57

End at: 2018-02-27 06:50:27

Below is generated by plot.py at 2018-02-27 08:13:44

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 102.50 Mbit/s (89.4% utilization)

95th percentile per-packet one-way delay: 81.616 ms

Loss rate: 0.28%

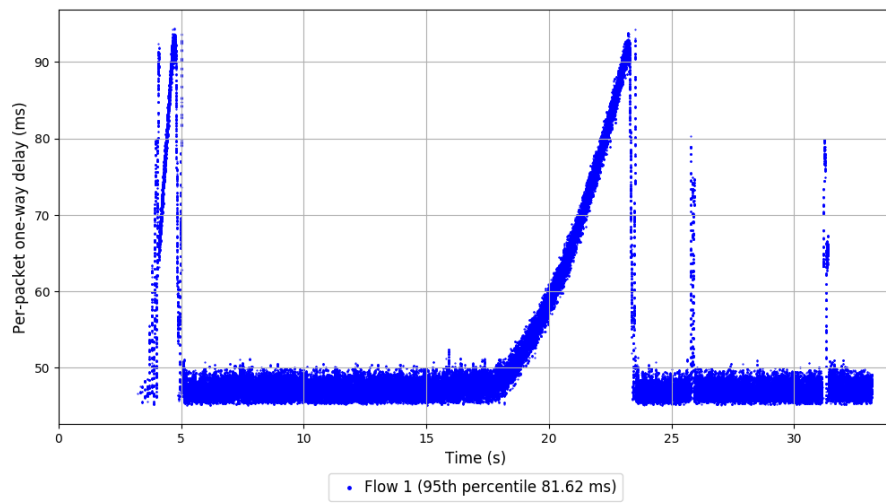
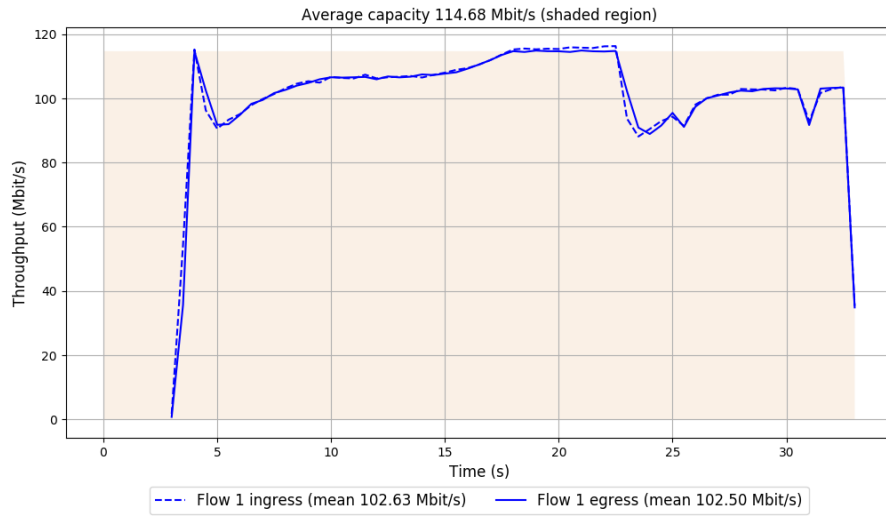
-- Flow 1:

Average throughput: 102.50 Mbit/s

95th percentile per-packet one-way delay: 81.616 ms

Loss rate: 0.28%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-27 07:01:47

End at: 2018-02-27 07:02:17

Below is generated by plot.py at 2018-02-27 08:13:50

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 109.69 Mbit/s (95.6% utilization)

95th percentile per-packet one-way delay: 89.711 ms

Loss rate: 0.46%

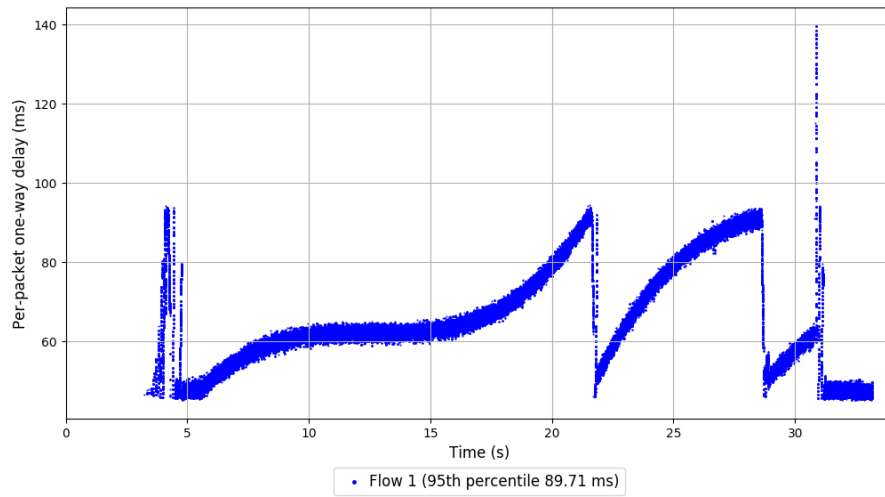
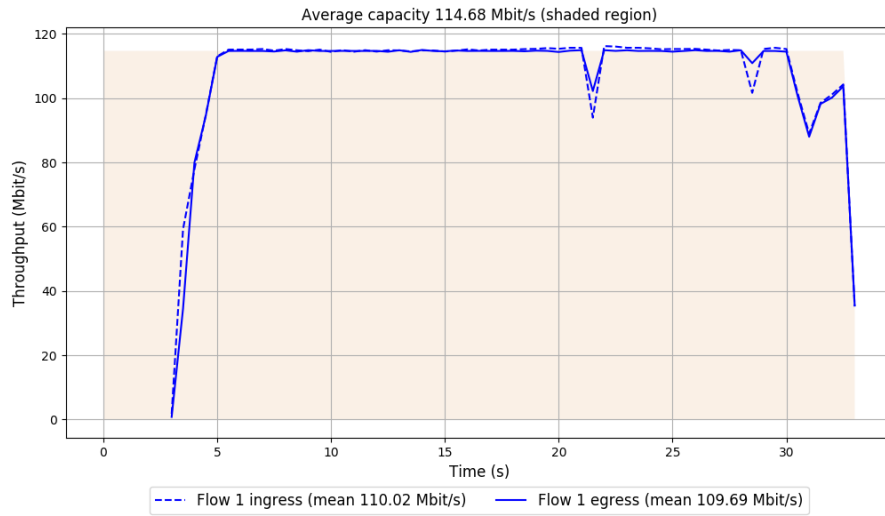
-- Flow 1:

Average throughput: 109.69 Mbit/s

95th percentile per-packet one-way delay: 89.711 ms

Loss rate: 0.46%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-27 07:13:42

End at: 2018-02-27 07:14:12

Below is generated by plot.py at 2018-02-27 08:13:50

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 104.17 Mbit/s (90.8% utilization)

95th percentile per-packet one-way delay: 84.042 ms

Loss rate: 0.21%

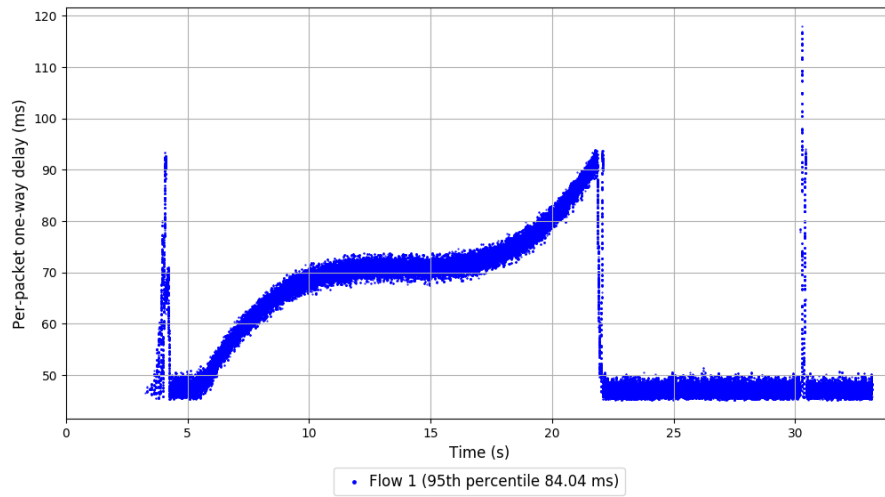
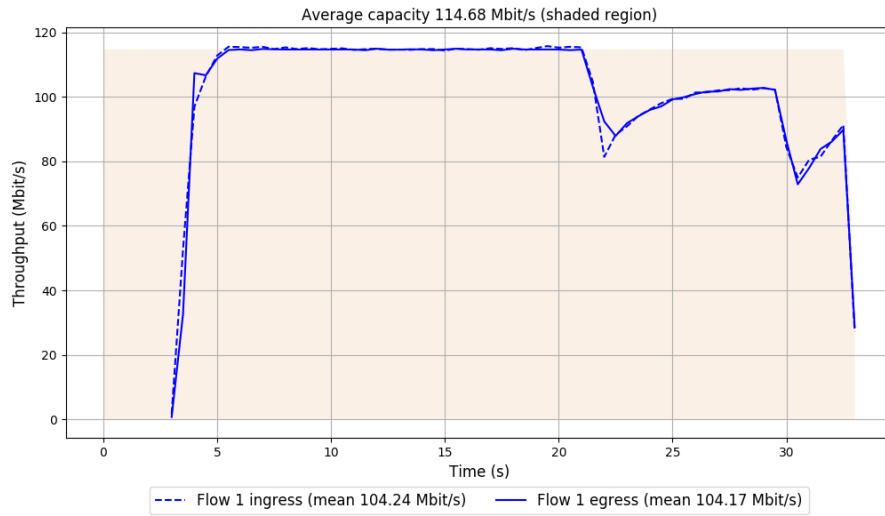
-- Flow 1:

Average throughput: 104.17 Mbit/s

95th percentile per-packet one-way delay: 84.042 ms

Loss rate: 0.21%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-27 07:25:35

End at: 2018-02-27 07:26:05

Below is generated by plot.py at 2018-02-27 08:15:53

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 111.21 Mbit/s (97.0% utilization)

95th percentile per-packet one-way delay: 89.681 ms

Loss rate: 0.48%

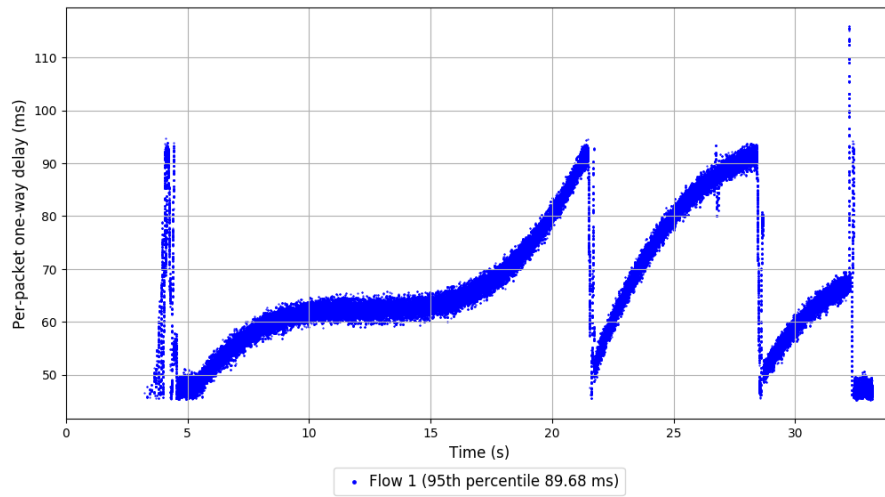
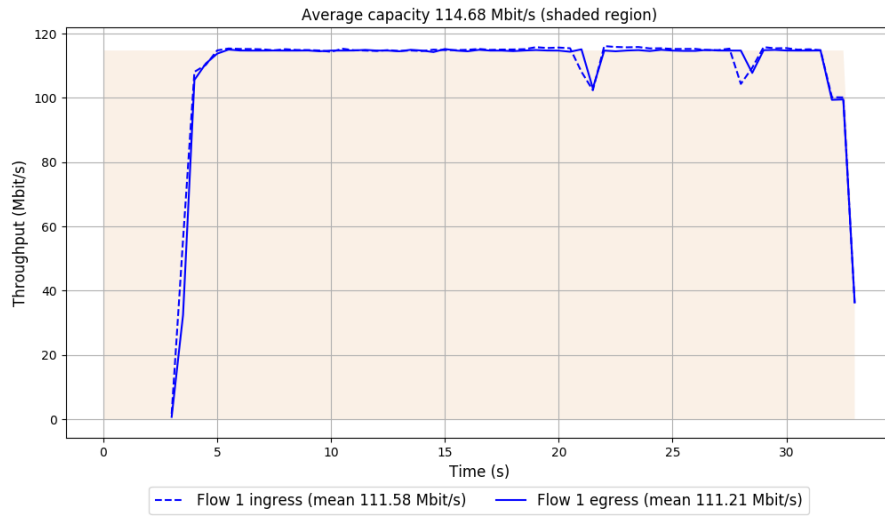
-- Flow 1:

Average throughput: 111.21 Mbit/s

95th percentile per-packet one-way delay: 89.681 ms

Loss rate: 0.48%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-27 07:37:49

End at: 2018-02-27 07:38:19

Below is generated by plot.py at 2018-02-27 08:15:53

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 104.15 Mbit/s (90.8% utilization)

95th percentile per-packet one-way delay: 83.680 ms

Loss rate: 0.31%

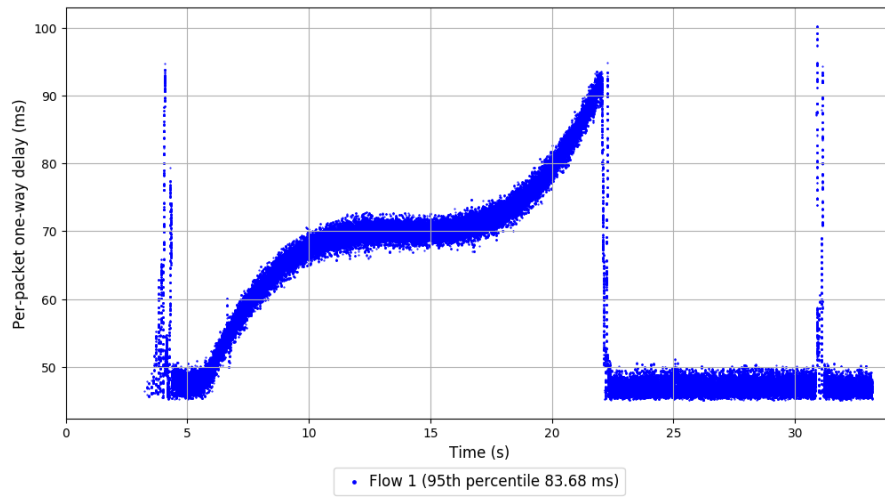
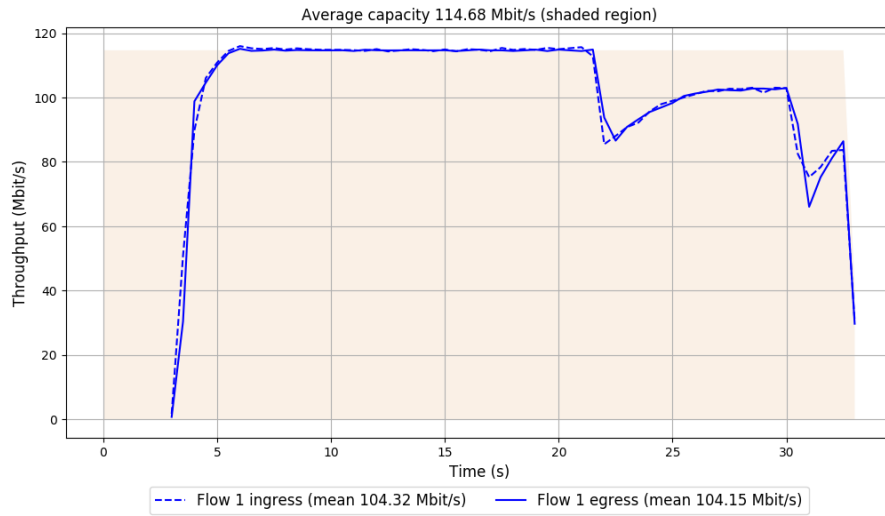
-- Flow 1:

Average throughput: 104.15 Mbit/s

95th percentile per-packet one-way delay: 83.680 ms

Loss rate: 0.31%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-27 07:49:42

End at: 2018-02-27 07:50:12

Below is generated by plot.py at 2018-02-27 08:15:53

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 105.87 Mbit/s (92.3% utilization)

95th percentile per-packet one-way delay: 90.083 ms

Loss rate: 0.28%

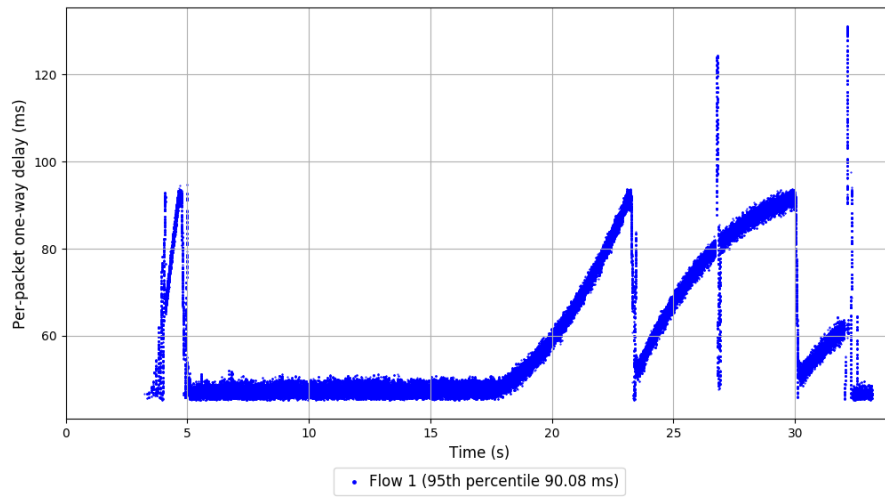
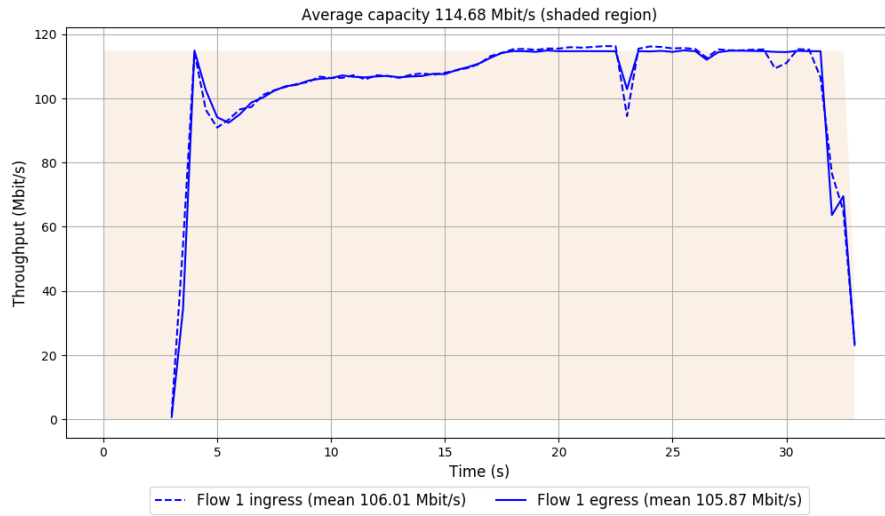
-- Flow 1:

Average throughput: 105.87 Mbit/s

95th percentile per-packet one-way delay: 90.083 ms

Loss rate: 0.28%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-27 08:01:33

End at: 2018-02-27 08:02:03

Below is generated by plot.py at 2018-02-27 08:15:53

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 105.07 Mbit/s (91.6% utilization)

95th percentile per-packet one-way delay: 80.272 ms

Loss rate: 0.56%

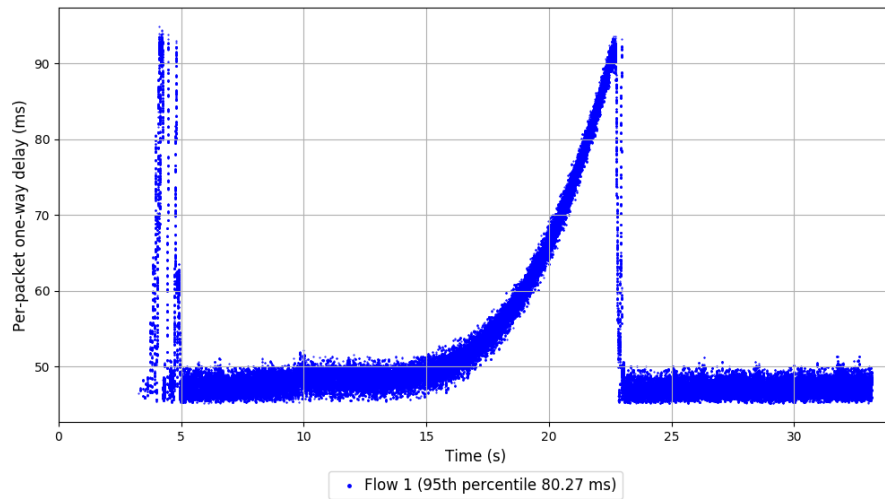
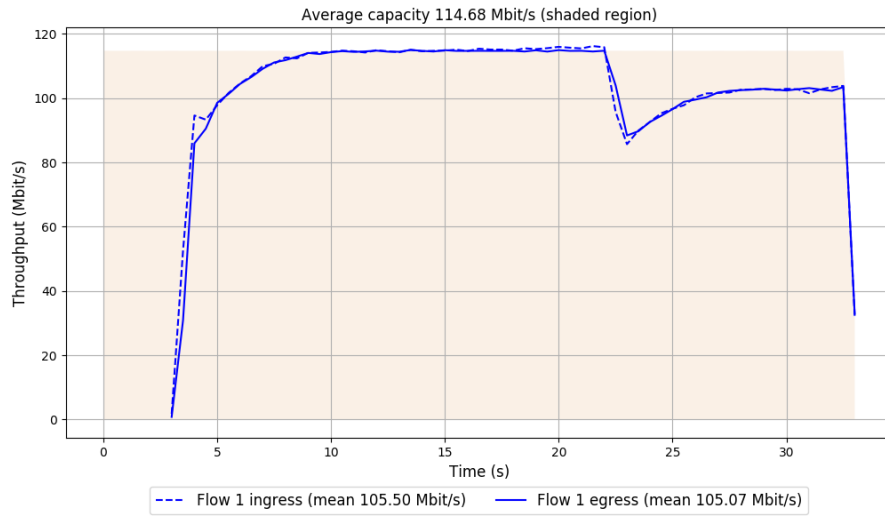
-- Flow 1:

Average throughput: 105.07 Mbit/s

95th percentile per-packet one-way delay: 80.272 ms

Loss rate: 0.56%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of LEDBAT

Start at: 2018-02-27 06:12:20

End at: 2018-02-27 06:12:50

Below is generated by plot.py at 2018-02-27 08:15:53

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 41.70 Mbit/s (36.4% utilization)

95th percentile per-packet one-way delay: 48.097 ms

Loss rate: 0.32%

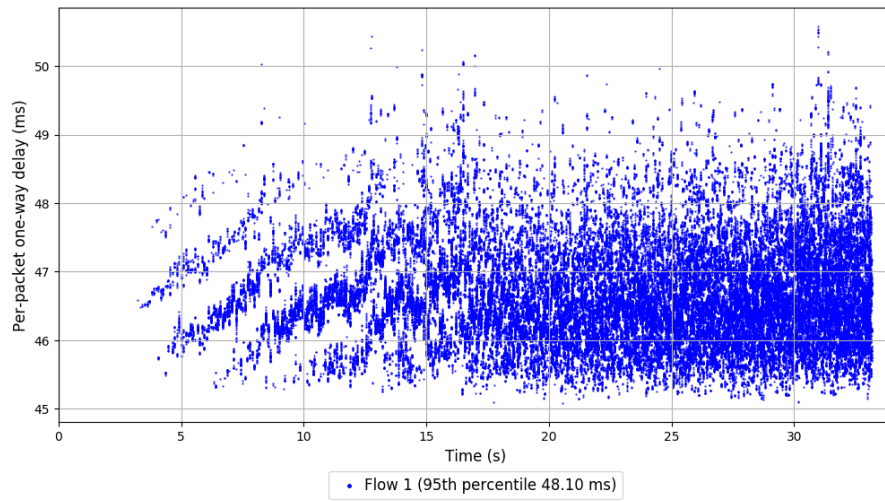
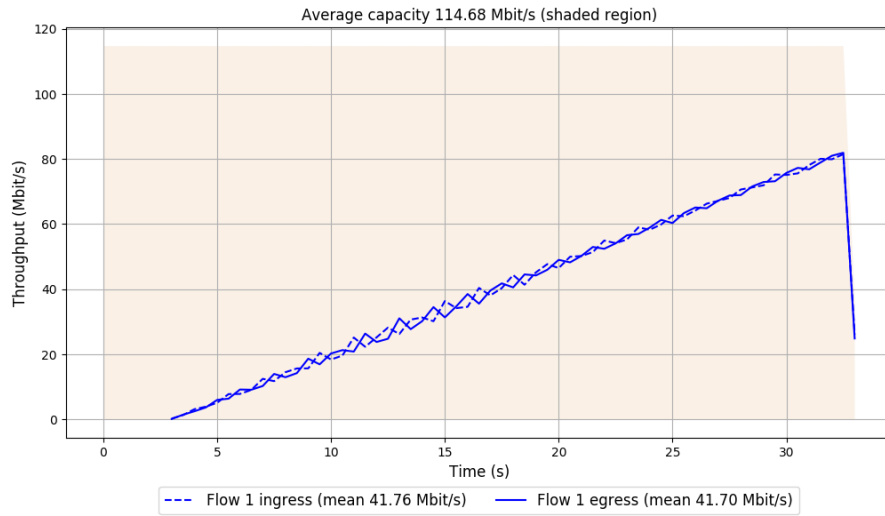
-- Flow 1:

Average throughput: 41.70 Mbit/s

95th percentile per-packet one-way delay: 48.097 ms

Loss rate: 0.32%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-02-27 06:24:11

End at: 2018-02-27 06:24:41

Below is generated by plot.py at 2018-02-27 08:15:53

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 41.53 Mbit/s (36.2% utilization)

95th percentile per-packet one-way delay: 48.246 ms

Loss rate: 0.40%

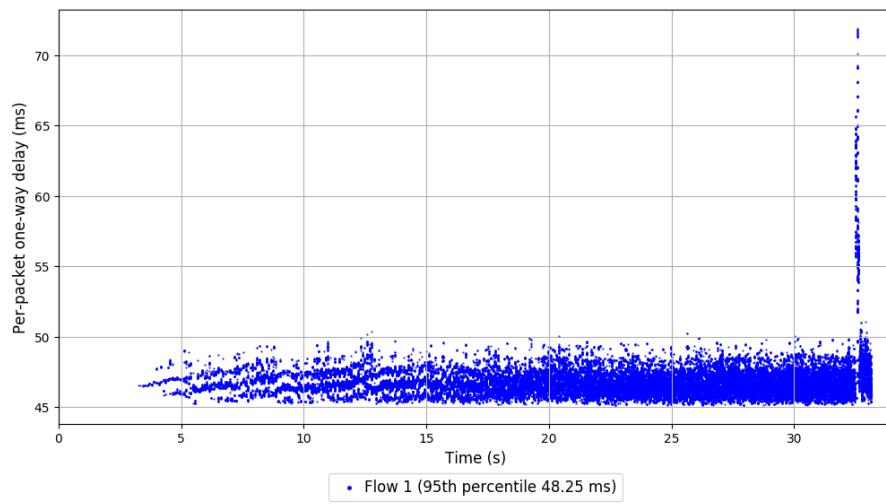
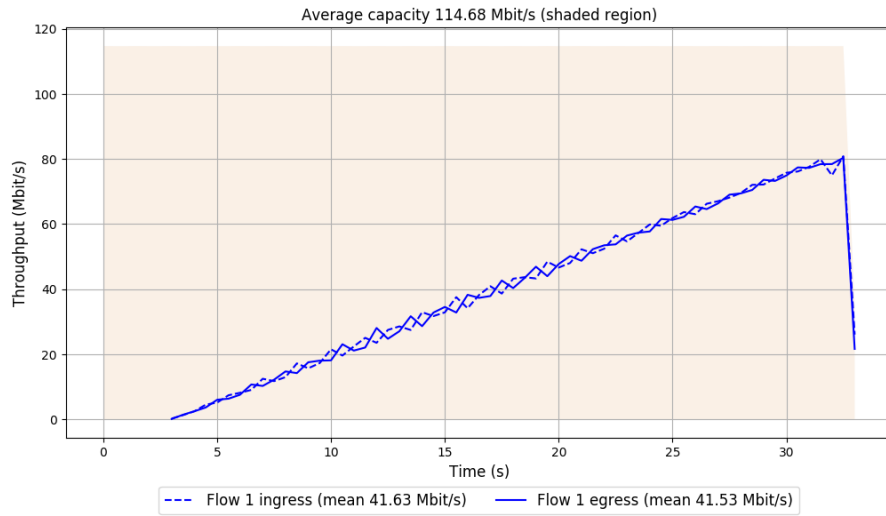
-- Flow 1:

Average throughput: 41.53 Mbit/s

95th percentile per-packet one-way delay: 48.246 ms

Loss rate: 0.40%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-27 06:36:03

End at: 2018-02-27 06:36:33

Below is generated by plot.py at 2018-02-27 08:15:53

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 41.22 Mbit/s (35.9% utilization)

95th percentile per-packet one-way delay: 48.392 ms

Loss rate: 0.33%

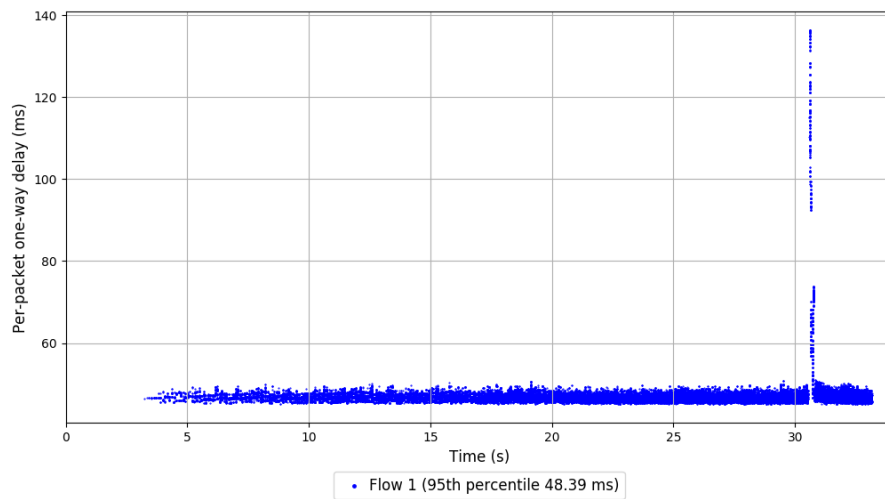
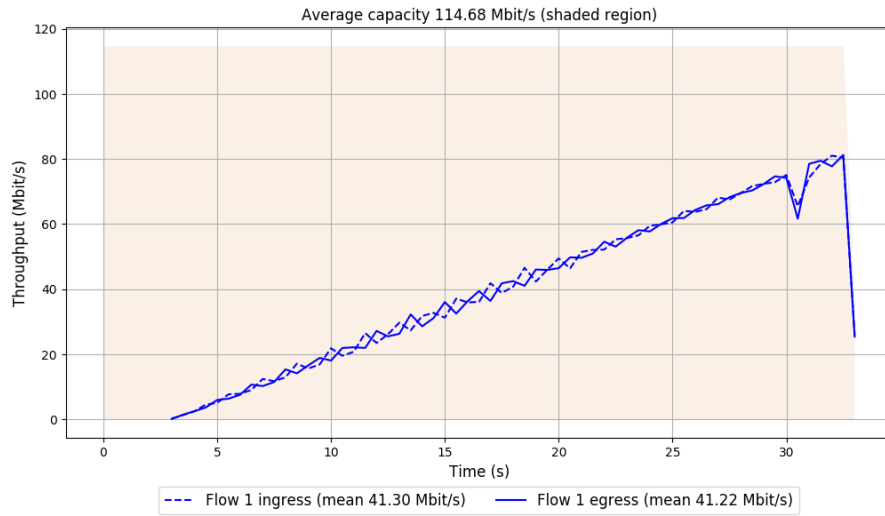
-- Flow 1:

Average throughput: 41.22 Mbit/s

95th percentile per-packet one-way delay: 48.392 ms

Loss rate: 0.33%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-27 06:47:56

End at: 2018-02-27 06:48:26

Below is generated by plot.py at 2018-02-27 08:15:53

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 41.42 Mbit/s (36.1% utilization)

95th percentile per-packet one-way delay: 48.213 ms

Loss rate: 0.23%

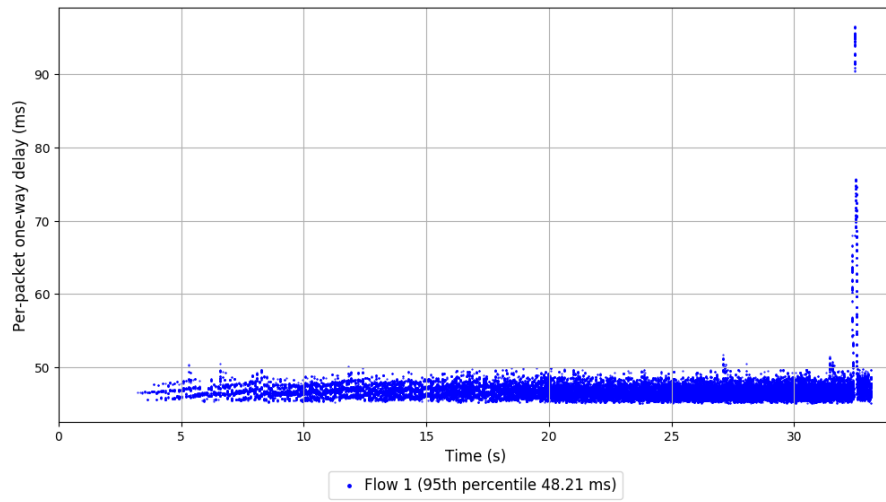
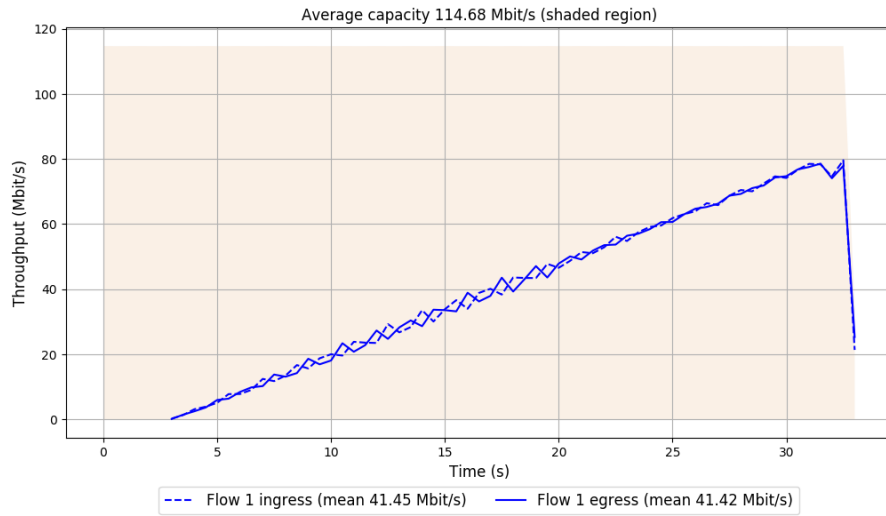
-- Flow 1:

Average throughput: 41.42 Mbit/s

95th percentile per-packet one-way delay: 48.213 ms

Loss rate: 0.23%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-27 06:59:46

End at: 2018-02-27 07:00:16

Below is generated by plot.py at 2018-02-27 08:16:17

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 41.42 Mbit/s (36.1% utilization)

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

Loss rate: 0.32%

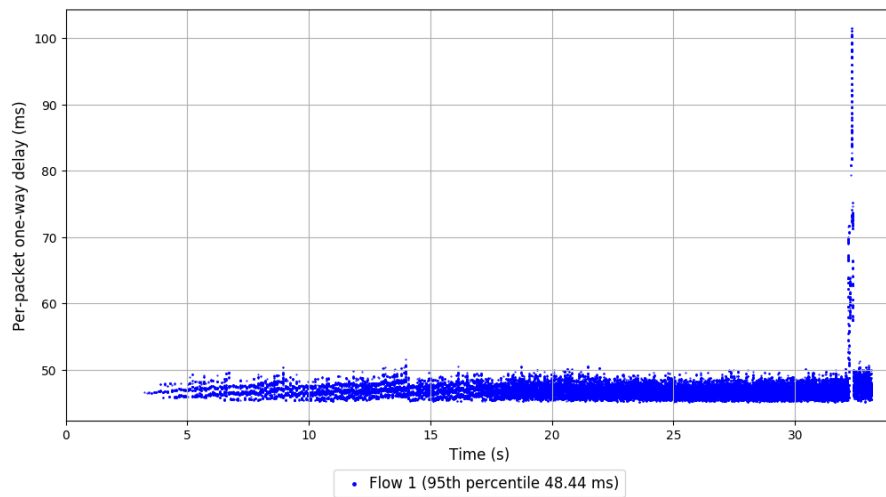
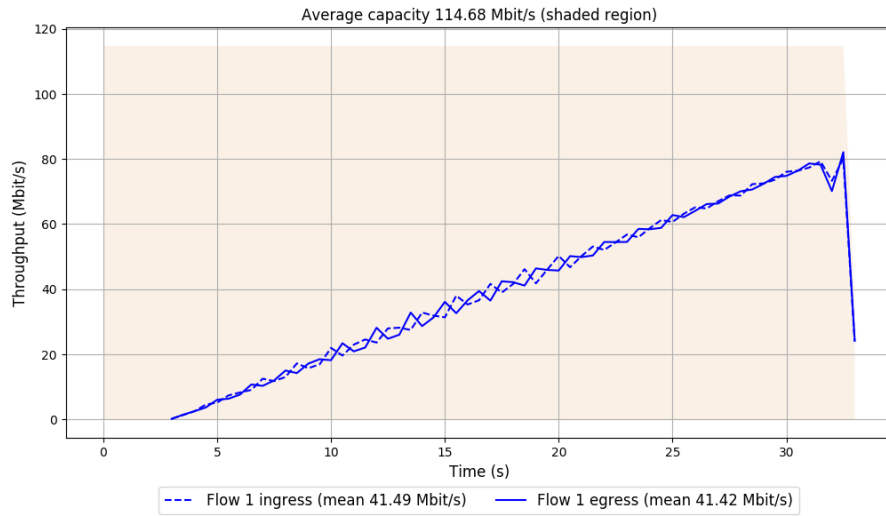
-- Flow 1:

Average throughput: 41.42 Mbit/s

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

Loss rate: 0.32%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-27 07:11:42

End at: 2018-02-27 07:12:12

Below is generated by plot.py at 2018-02-27 08:16:17

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 41.48 Mbit/s (36.2% utilization)

95th percentile per-packet one-way delay: 48.199 ms

Loss rate: 0.31%

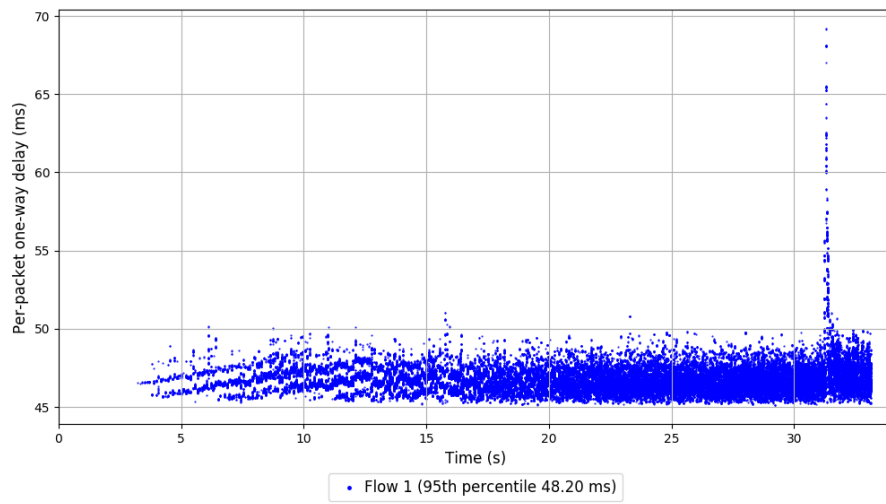
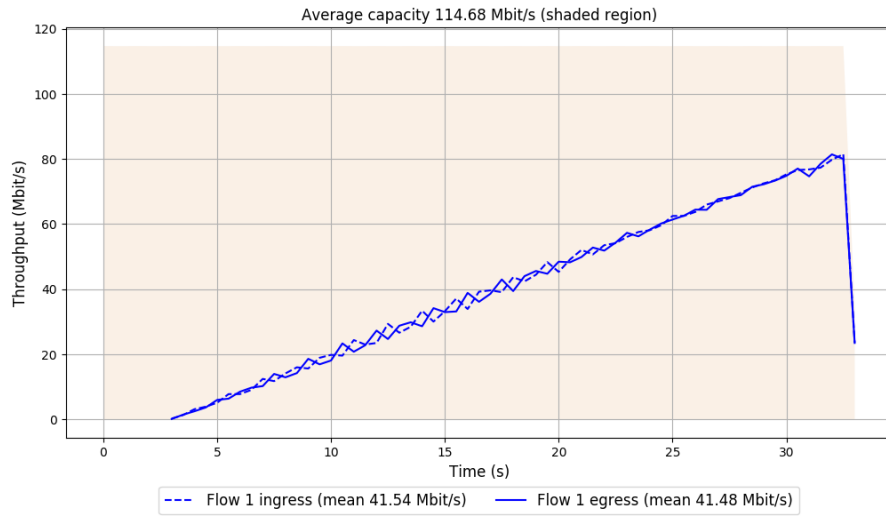
-- Flow 1:

Average throughput: 41.48 Mbit/s

95th percentile per-packet one-way delay: 48.199 ms

Loss rate: 0.31%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-27 07:23:35

End at: 2018-02-27 07:24:05

Below is generated by plot.py at 2018-02-27 08:16:19

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 41.59 Mbit/s (36.3% utilization)

95th percentile per-packet one-way delay: 48.155 ms

Loss rate: 0.24%

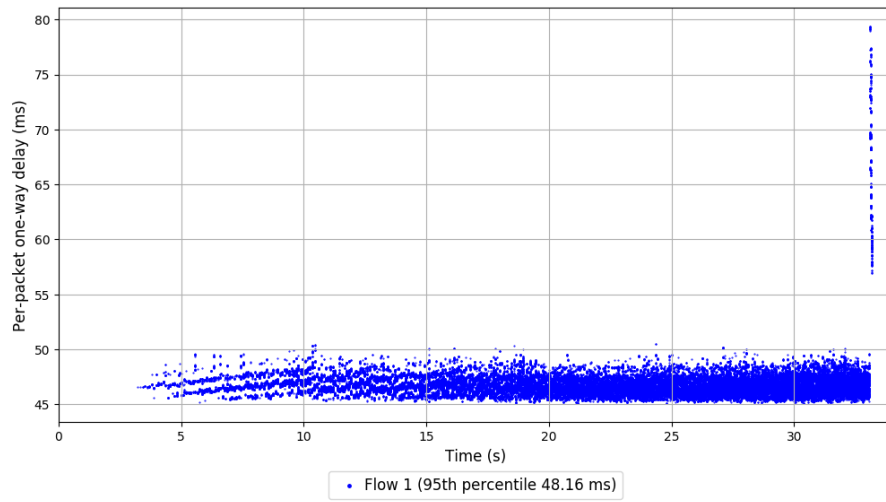
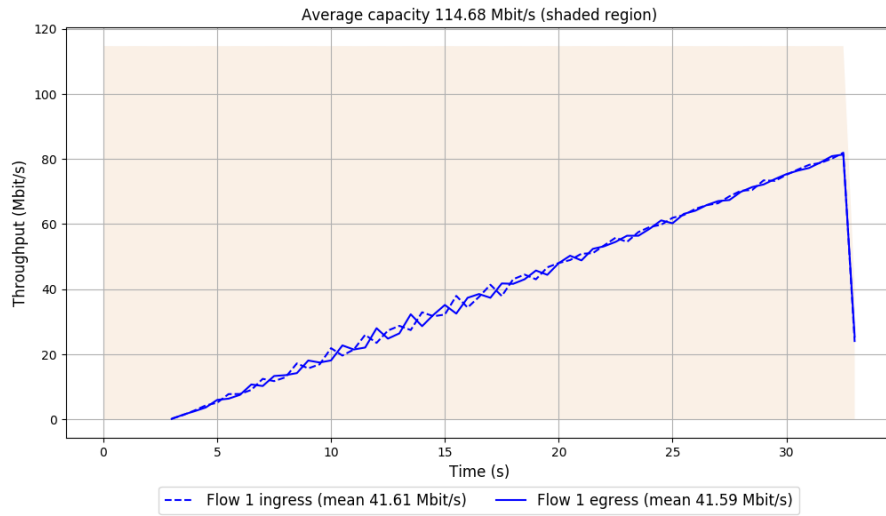
-- Flow 1:

Average throughput: 41.59 Mbit/s

95th percentile per-packet one-way delay: 48.155 ms

Loss rate: 0.24%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-27 07:35:48

End at: 2018-02-27 07:36:18

Below is generated by plot.py at 2018-02-27 08:16:25

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 41.41 Mbit/s (36.1% utilization)

95th percentile per-packet one-way delay: 48.196 ms

Loss rate: 0.30%

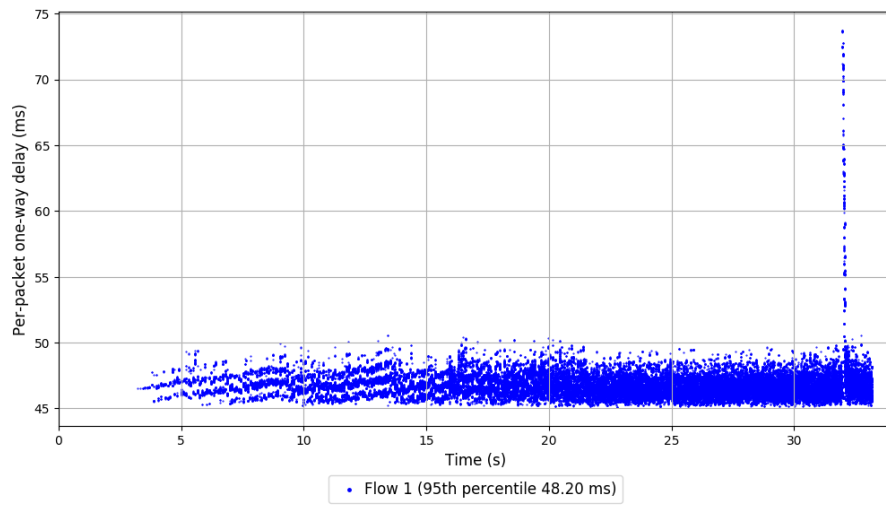
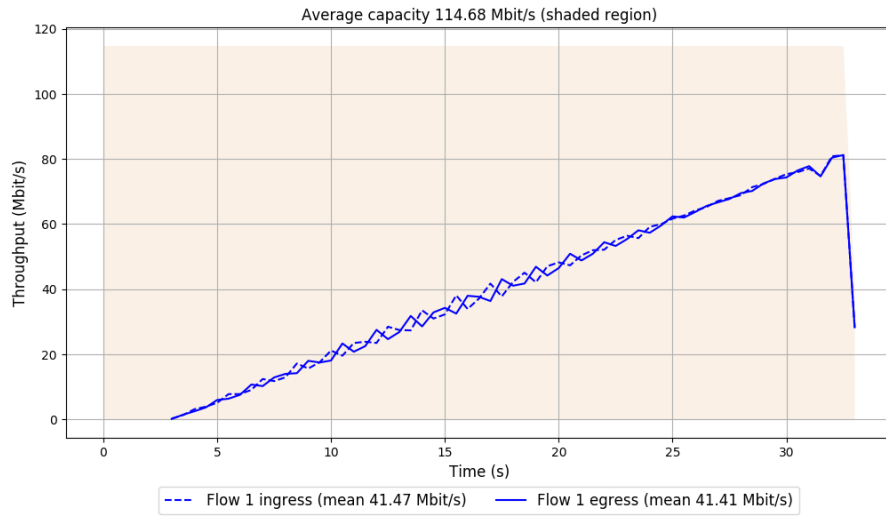
-- Flow 1:

Average throughput: 41.41 Mbit/s

95th percentile per-packet one-way delay: 48.196 ms

Loss rate: 0.30%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-27 07:47:41

End at: 2018-02-27 07:48:11

Below is generated by plot.py at 2018-02-27 08:17:00

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 41.40 Mbit/s (36.1% utilization)

95th percentile per-packet one-way delay: 48.292 ms

Loss rate: 0.33%

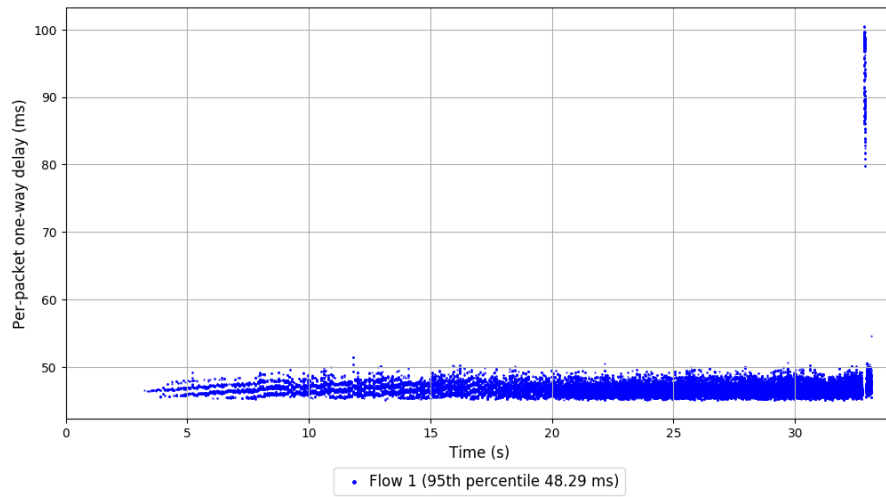
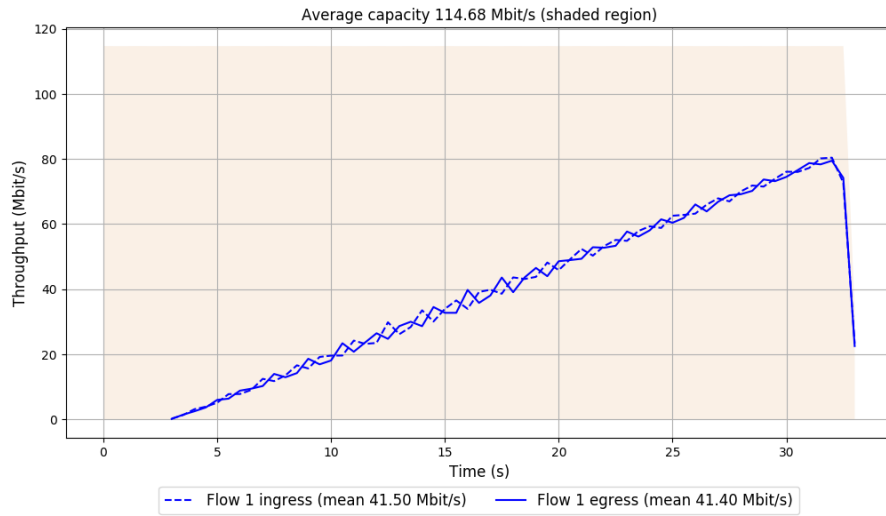
-- Flow 1:

Average throughput: 41.40 Mbit/s

95th percentile per-packet one-way delay: 48.292 ms

Loss rate: 0.33%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-27 07:59:33

End at: 2018-02-27 08:00:03

Below is generated by plot.py at 2018-02-27 08:17:03

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 41.50 Mbit/s (36.2% utilization)

95th percentile per-packet one-way delay: 48.263 ms

Loss rate: 0.30%

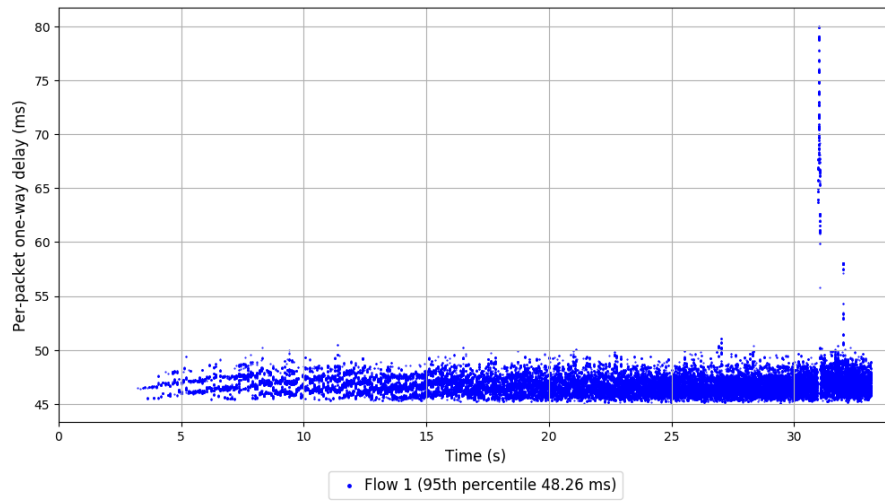
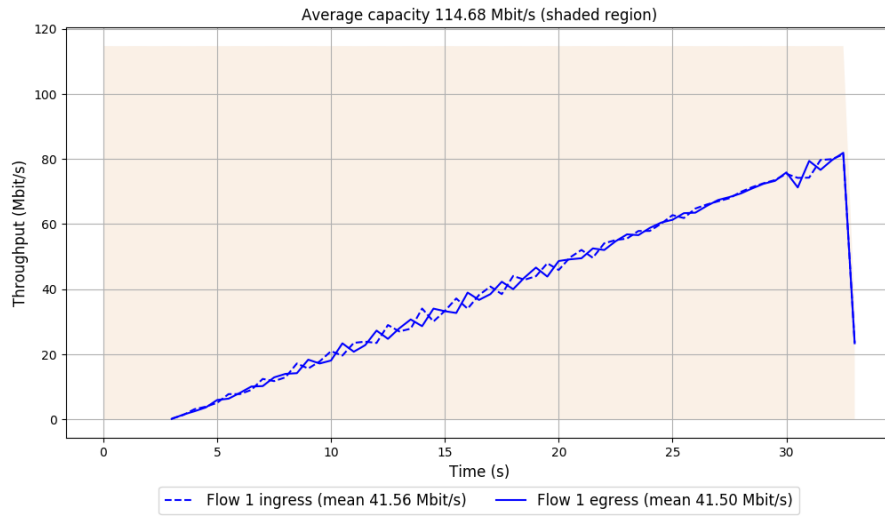
-- Flow 1:

Average throughput: 41.50 Mbit/s

95th percentile per-packet one-way delay: 48.263 ms

Loss rate: 0.30%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2018-02-27 06:09:49

End at: 2018-02-27 06:10:19

Below is generated by plot.py at 2018-02-27 08:18:14

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 102.86 Mbit/s (89.7% utilization)

95th percentile per-packet one-way delay: 61.868 ms

Loss rate: 0.61%

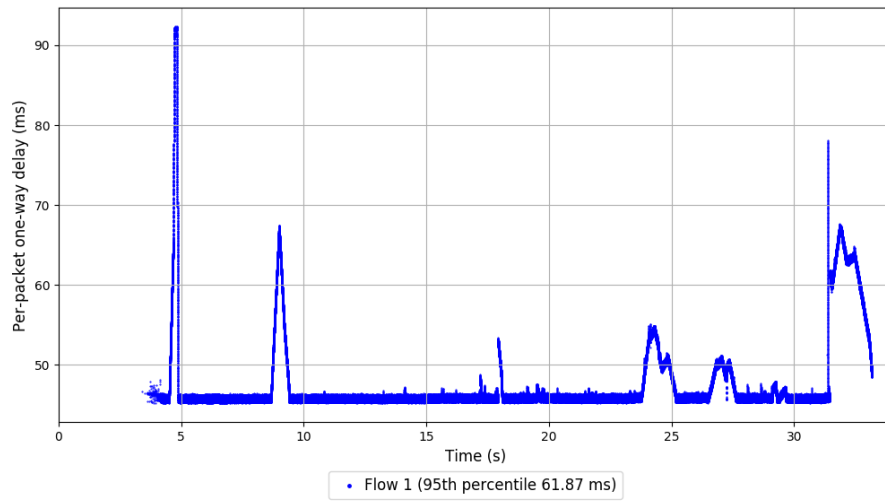
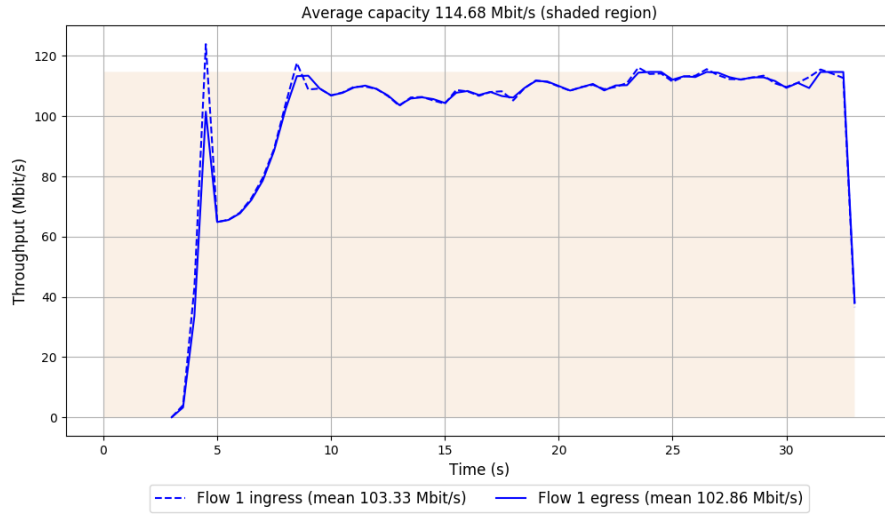
-- Flow 1:

Average throughput: 102.86 Mbit/s

95th percentile per-packet one-way delay: 61.868 ms

Loss rate: 0.61%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-27 06:21:36

End at: 2018-02-27 06:22:06

Below is generated by plot.py at 2018-02-27 08:18:14

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 89.25 Mbit/s (77.8% utilization)

95th percentile per-packet one-way delay: 57.311 ms

Loss rate: 0.69%

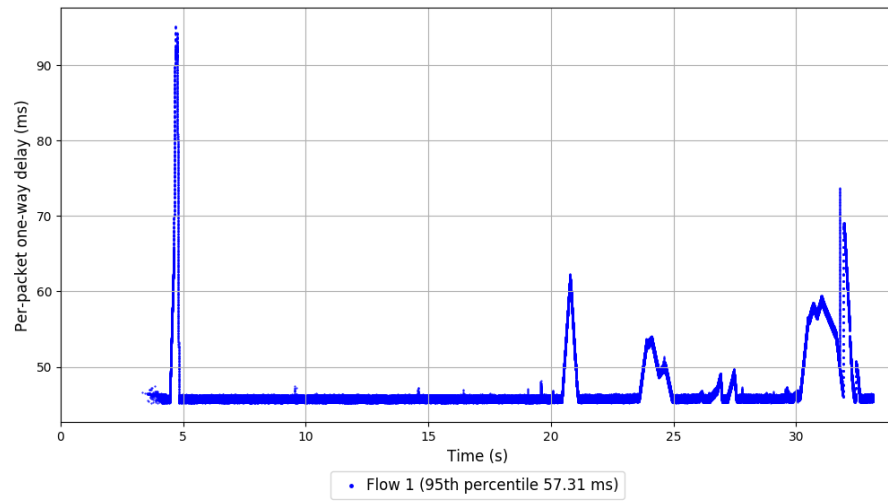
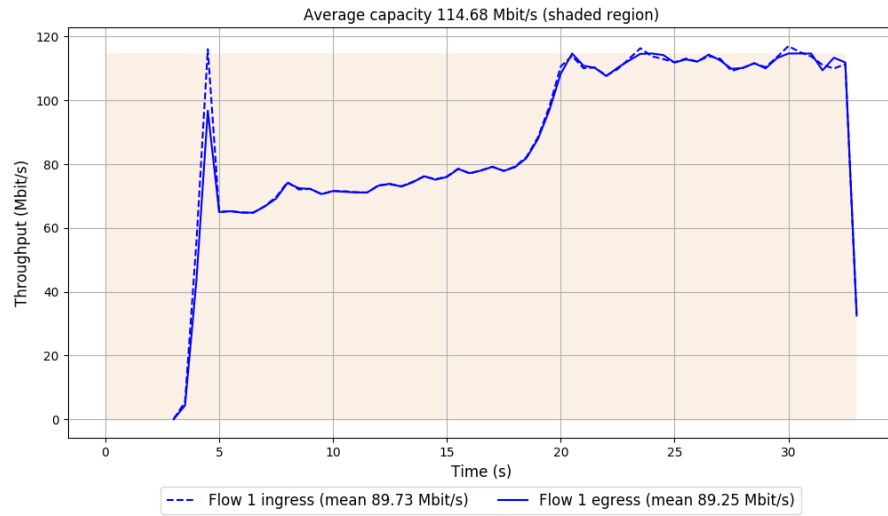
-- Flow 1:

Average throughput: 89.25 Mbit/s

95th percentile per-packet one-way delay: 57.311 ms

Loss rate: 0.69%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-27 06:33:28

End at: 2018-02-27 06:33:58

Below is generated by plot.py at 2018-02-27 08:18:26

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 99.12 Mbit/s (86.4% utilization)

95th percentile per-packet one-way delay: 54.640 ms

Loss rate: 0.61%

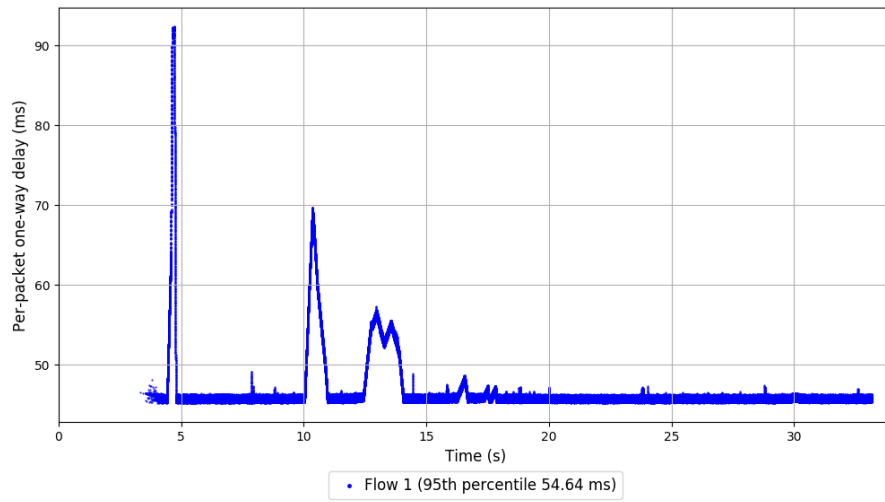
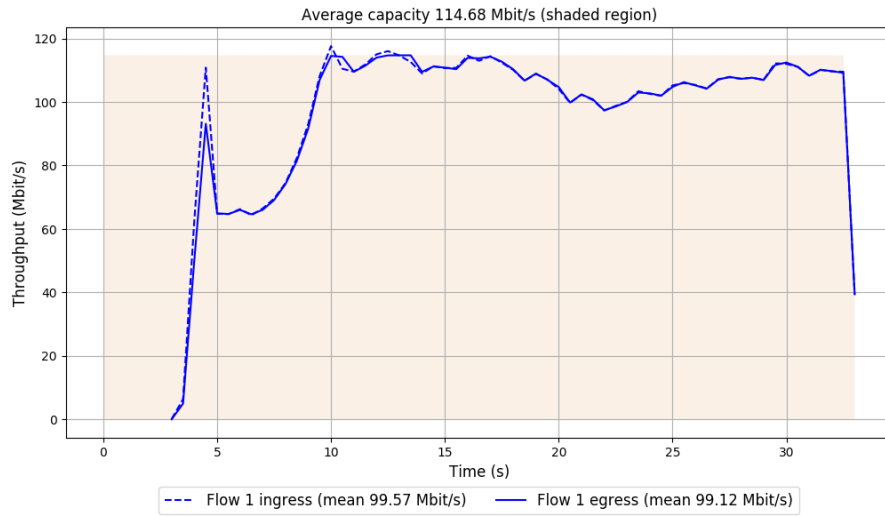
-- Flow 1:

Average throughput: 99.12 Mbit/s

95th percentile per-packet one-way delay: 54.640 ms

Loss rate: 0.61%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-27 06:45:21

End at: 2018-02-27 06:45:51

Below is generated by plot.py at 2018-02-27 08:18:31

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 103.81 Mbit/s (90.5% utilization)

95th percentile per-packet one-way delay: 60.211 ms

Loss rate: 0.66%

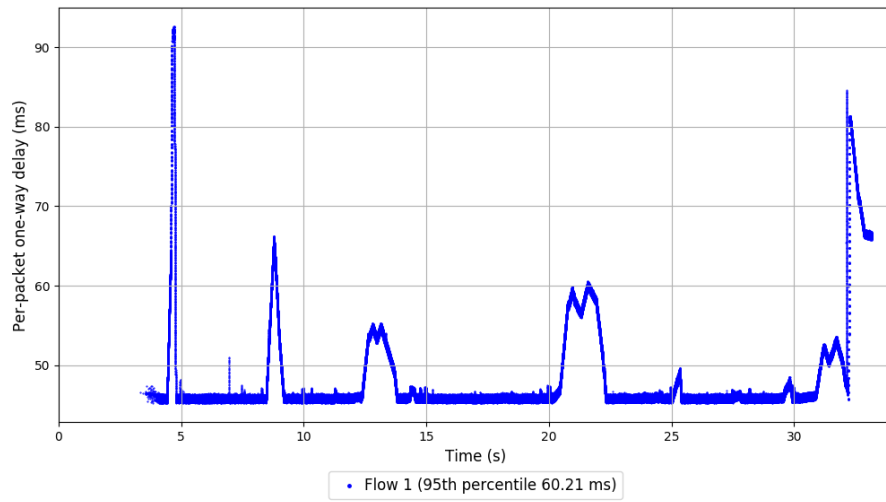
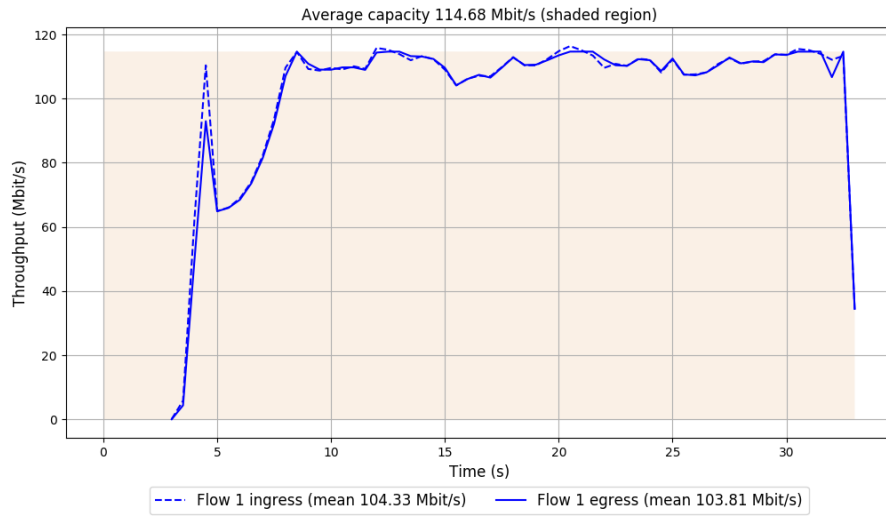
-- Flow 1:

Average throughput: 103.81 Mbit/s

95th percentile per-packet one-way delay: 60.211 ms

Loss rate: 0.66%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-27 06:57:12

End at: 2018-02-27 06:57:42

Below is generated by plot.py at 2018-02-27 08:18:31

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 95.73 Mbit/s (83.5% utilization)

95th percentile per-packet one-way delay: 49.004 ms

Loss rate: 0.61%

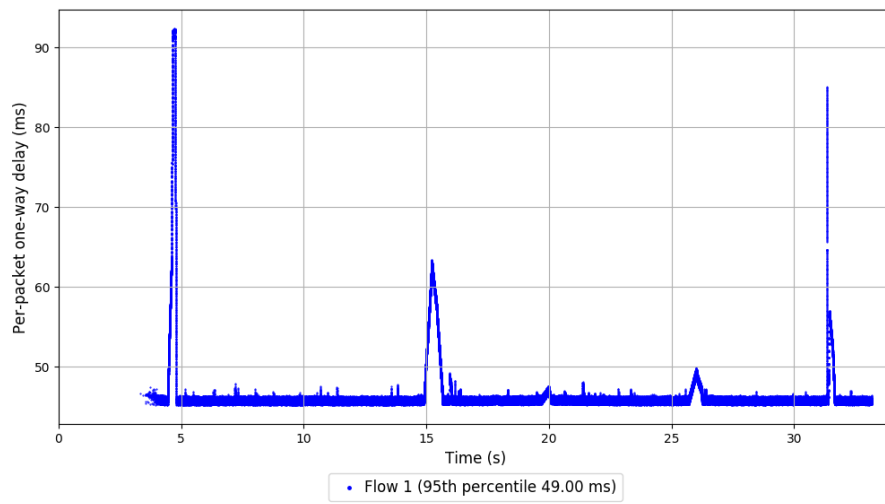
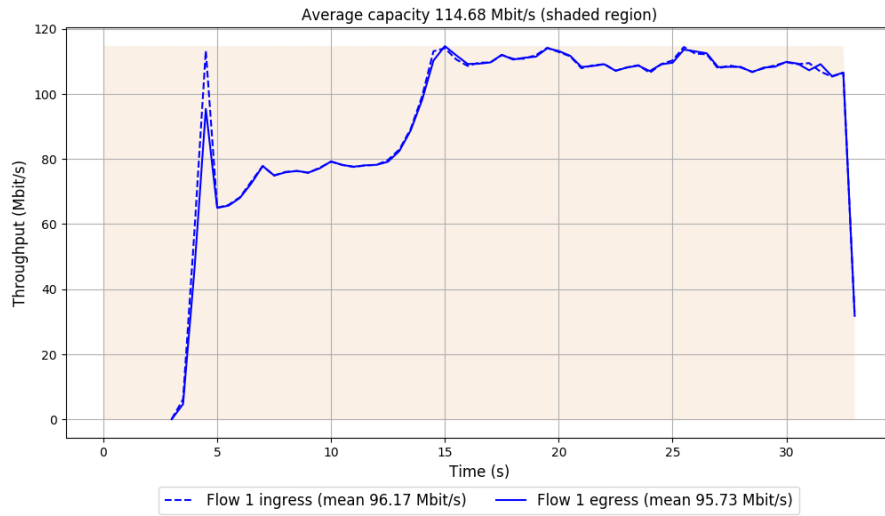
-- Flow 1:

Average throughput: 95.73 Mbit/s

95th percentile per-packet one-way delay: 49.004 ms

Loss rate: 0.61%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-27 07:09:07

End at: 2018-02-27 07:09:37

Below is generated by plot.py at 2018-02-27 08:18:34

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 94.09 Mbit/s (82.0% utilization)

95th percentile per-packet one-way delay: 59.492 ms

Loss rate: 0.63%

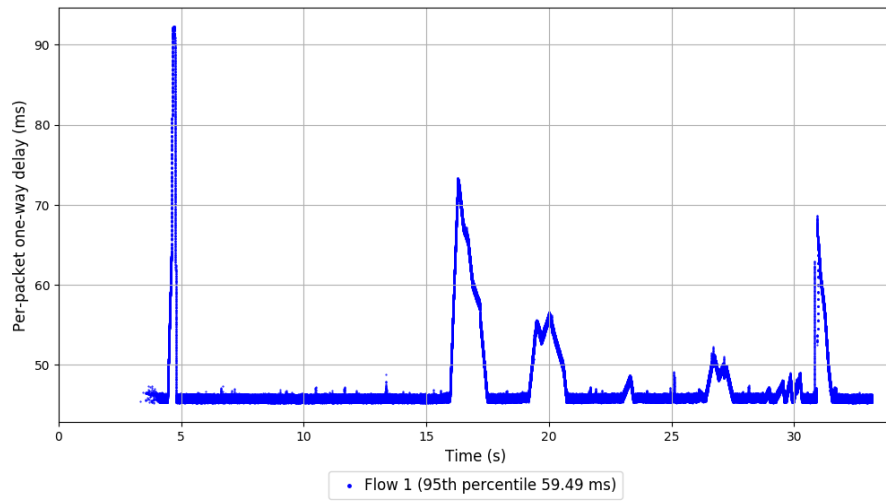
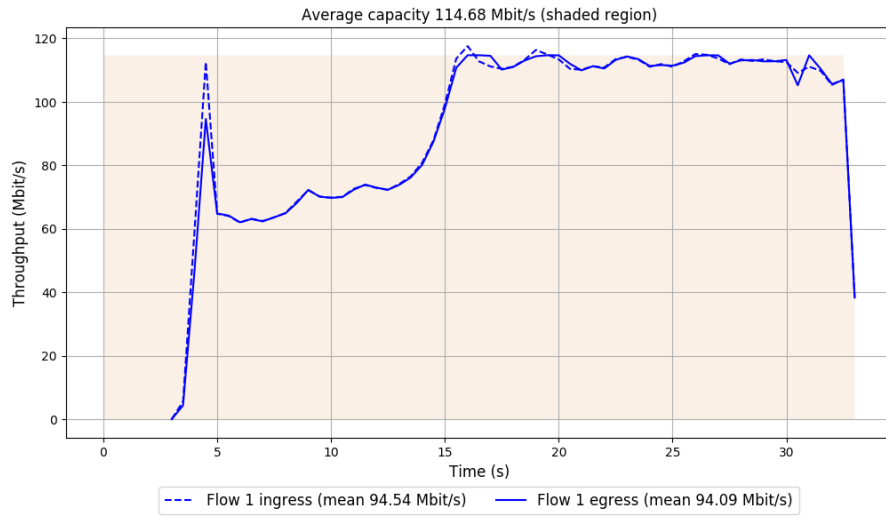
-- Flow 1:

Average throughput: 94.09 Mbit/s

95th percentile per-packet one-way delay: 59.492 ms

Loss rate: 0.63%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-27 07:21:00

End at: 2018-02-27 07:21:30

Below is generated by plot.py at 2018-02-27 08:19:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 94.27 Mbit/s (82.2% utilization)

95th percentile per-packet one-way delay: 51.155 ms

Loss rate: 0.71%

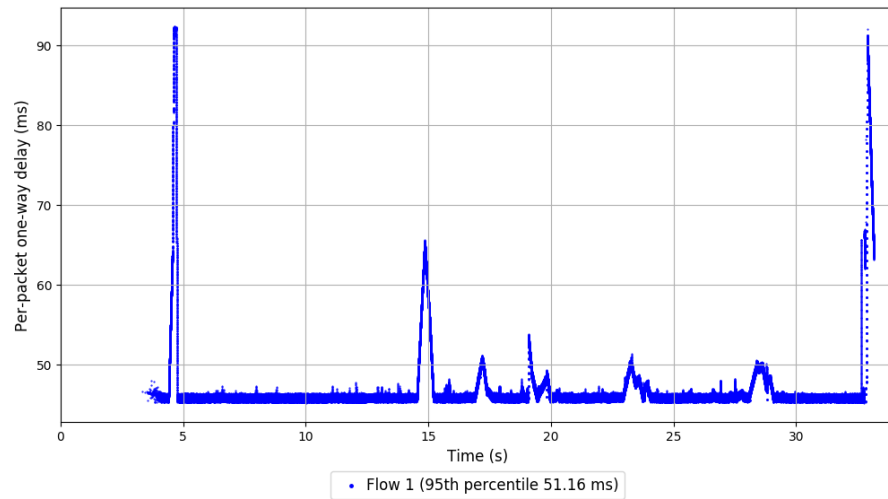
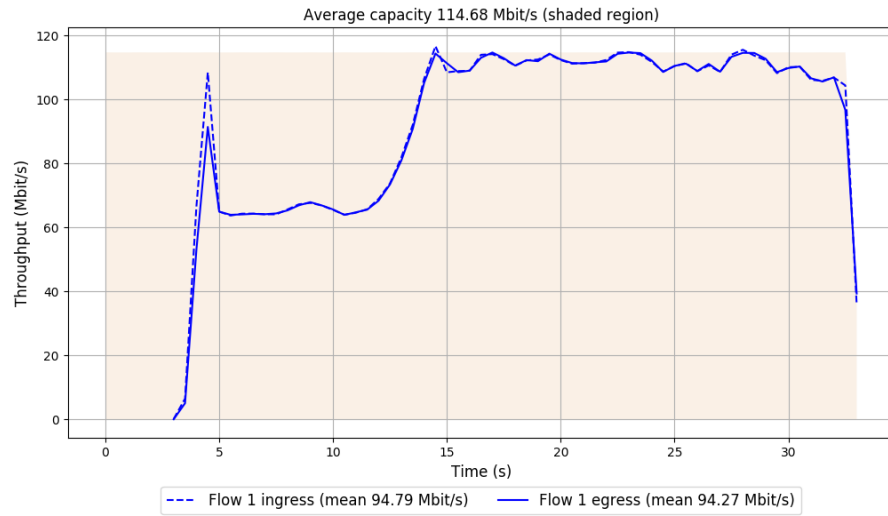
-- Flow 1:

Average throughput: 94.27 Mbit/s

95th percentile per-packet one-way delay: 51.155 ms

Loss rate: 0.71%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-27 07:33:13

End at: 2018-02-27 07:33:43

Below is generated by plot.py at 2018-02-27 08:19:21

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 102.41 Mbit/s (89.3% utilization)

95th percentile per-packet one-way delay: 54.122 ms

Loss rate: 0.61%

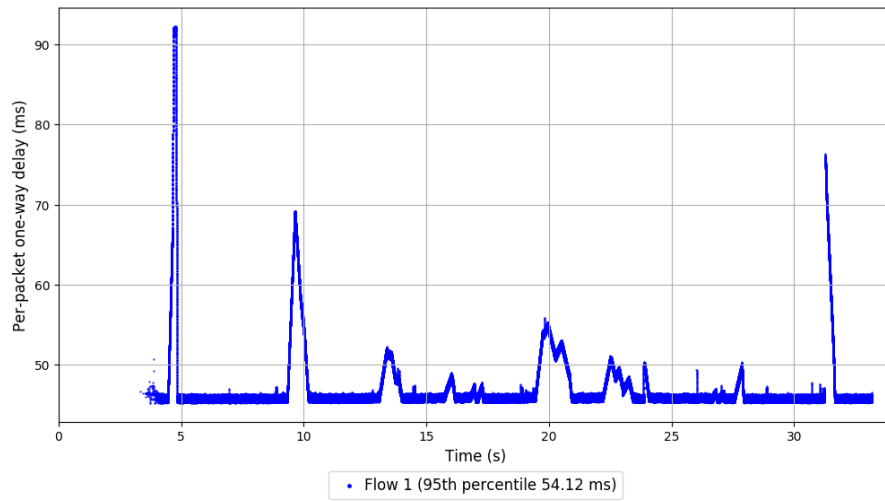
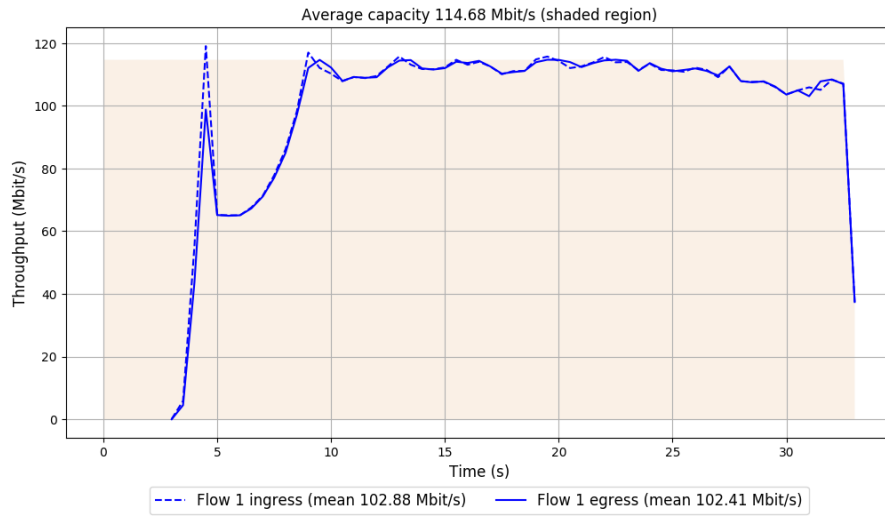
-- Flow 1:

Average throughput: 102.41 Mbit/s

95th percentile per-packet one-way delay: 54.122 ms

Loss rate: 0.61%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-27 07:45:06

End at: 2018-02-27 07:45:36

Below is generated by plot.py at 2018-02-27 08:20:17

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 102.82 Mbit/s (89.7% utilization)

95th percentile per-packet one-way delay: 55.080 ms

Loss rate: 0.66%

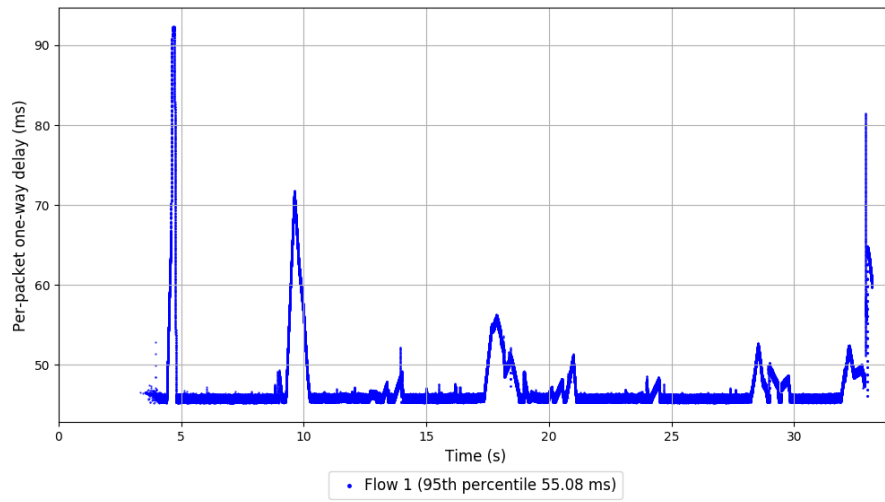
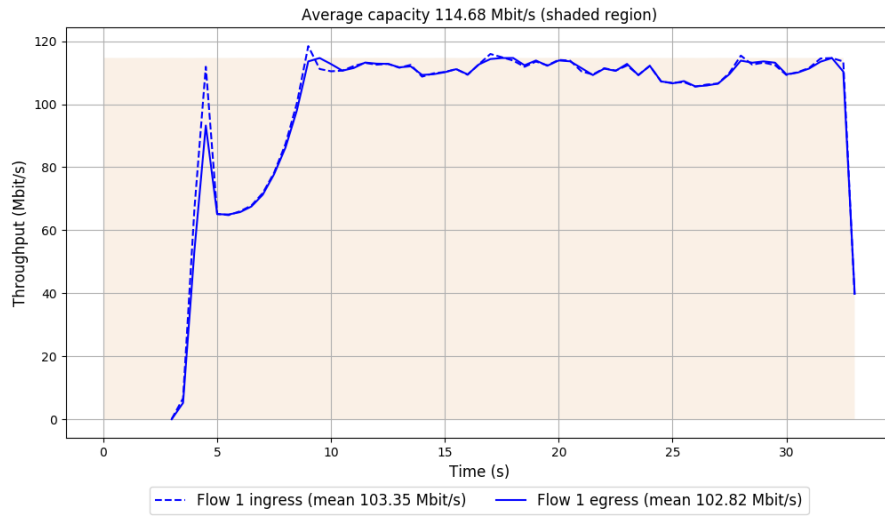
-- Flow 1:

Average throughput: 102.82 Mbit/s

95th percentile per-packet one-way delay: 55.080 ms

Loss rate: 0.66%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-27 07:56:58

End at: 2018-02-27 07:57:28

Below is generated by plot.py at 2018-02-27 08:20:22

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 103.50 Mbit/s (90.2% utilization)

95th percentile per-packet one-way delay: 66.019 ms

Loss rate: 0.58%

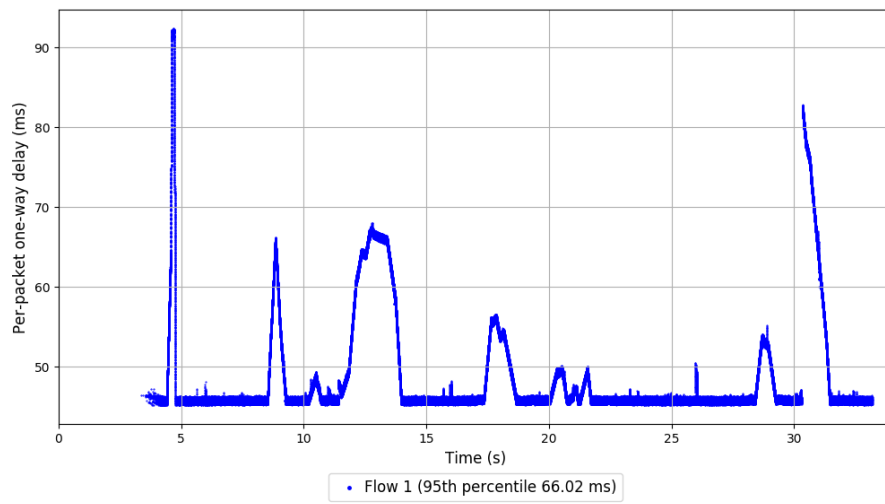
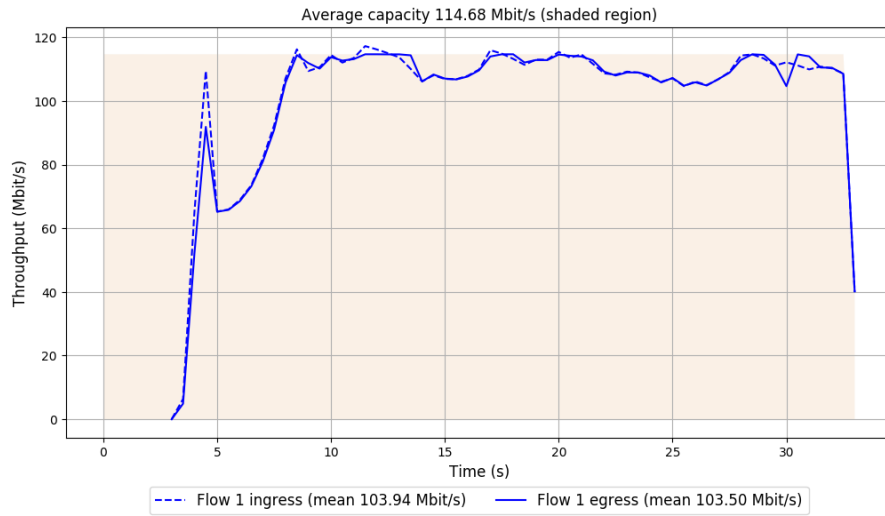
-- Flow 1:

Average throughput: 103.50 Mbit/s

95th percentile per-packet one-way delay: 66.019 ms

Loss rate: 0.58%

Run 10: Report of PCC — Data Link

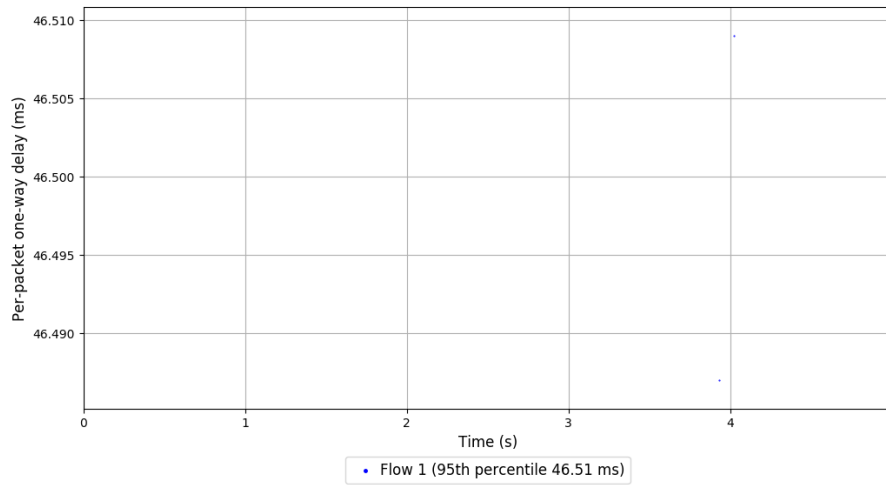
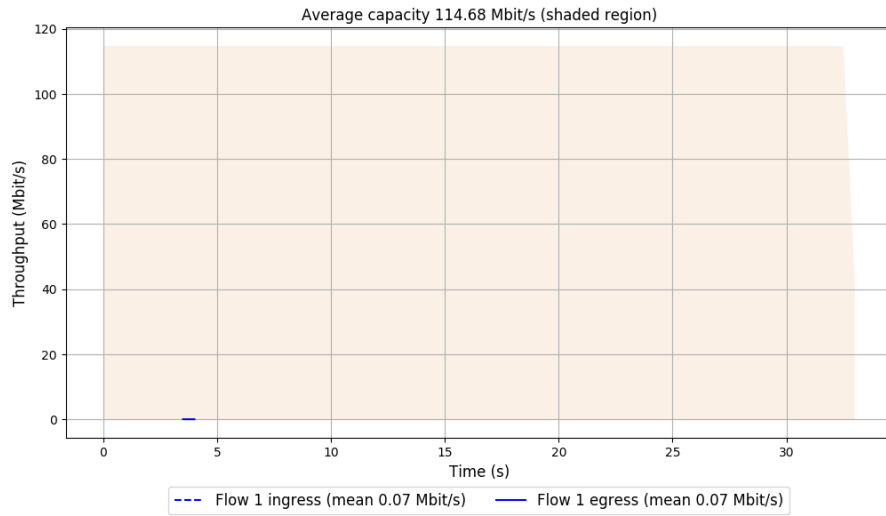


Run 1: Statistics of QUIC Cubic

Start at: 2018-02-27 06:11:03

End at: 2018-02-27 06:11:33

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-27 06:22:50

End at: 2018-02-27 06:23:20

Below is generated by plot.py at 2018-02-27 08:20:22

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 68.57 Mbit/s (59.8% utilization)

95th percentile per-packet one-way delay: 46.325 ms

Loss rate: 0.17%

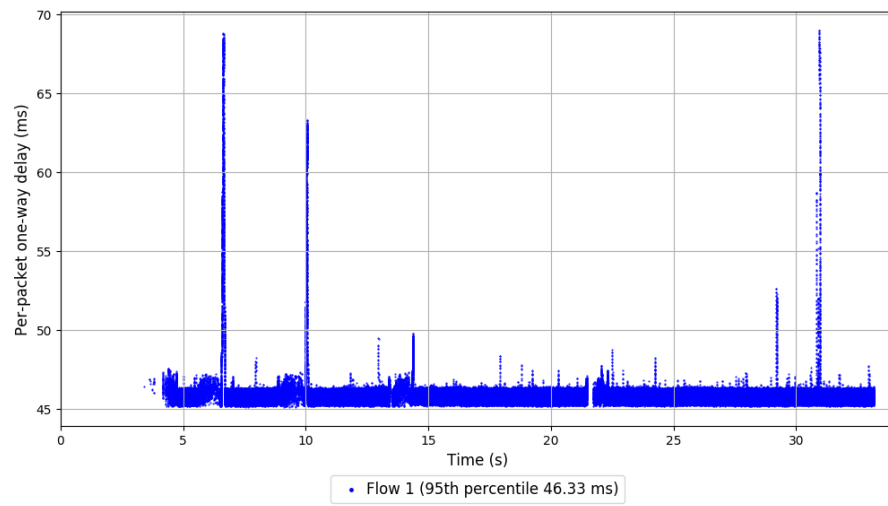
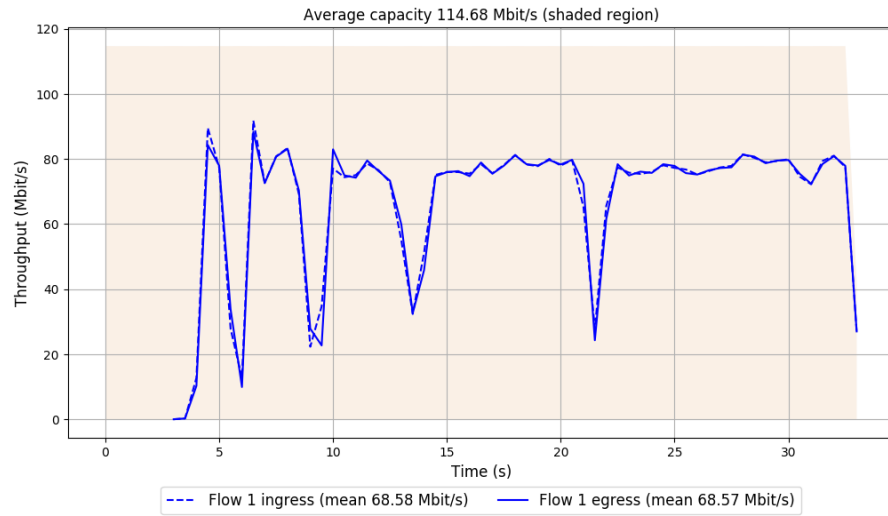
-- Flow 1:

Average throughput: 68.57 Mbit/s

95th percentile per-packet one-way delay: 46.325 ms

Loss rate: 0.17%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-27 06:34:42

End at: 2018-02-27 06:35:12

Below is generated by plot.py at 2018-02-27 08:20:22

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 66.78 Mbit/s (58.2% utilization)

95th percentile per-packet one-way delay: 46.337 ms

Loss rate: 0.17%

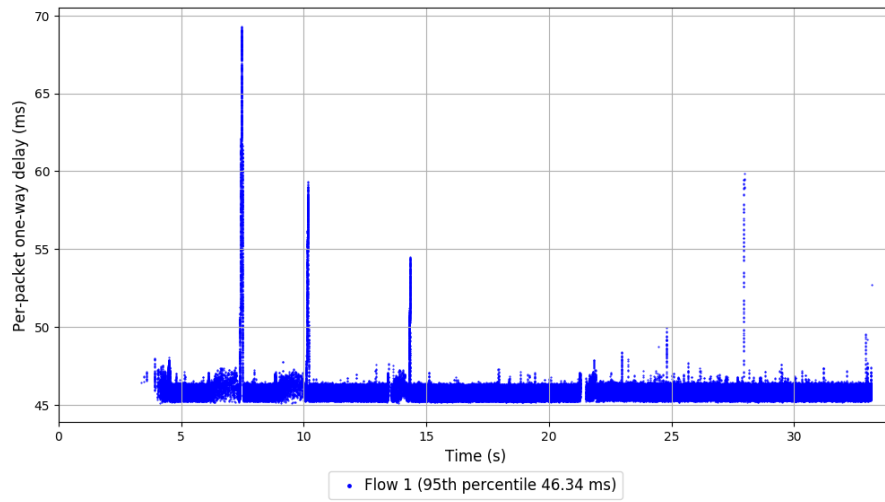
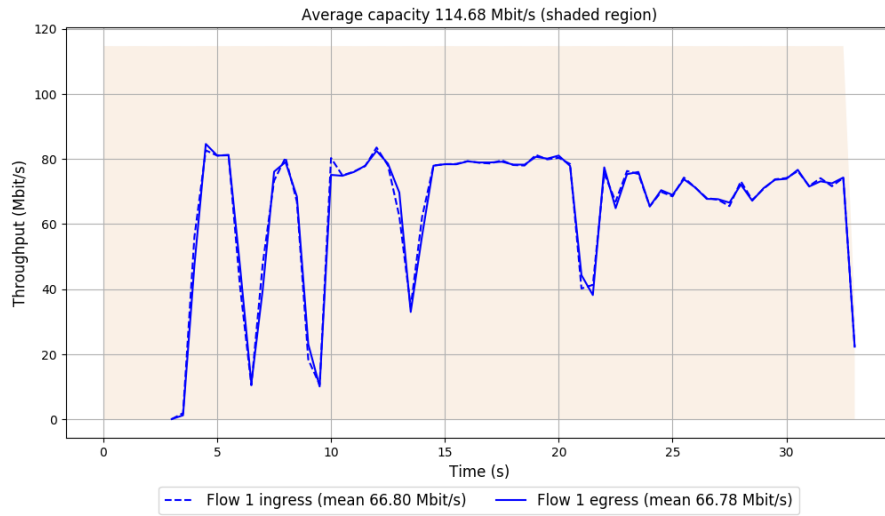
-- Flow 1:

Average throughput: 66.78 Mbit/s

95th percentile per-packet one-way delay: 46.337 ms

Loss rate: 0.17%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-27 06:46:35

End at: 2018-02-27 06:47:05

Below is generated by plot.py at 2018-02-27 08:20:22

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 67.87 Mbit/s (59.2% utilization)

95th percentile per-packet one-way delay: 46.323 ms

Loss rate: 0.17%

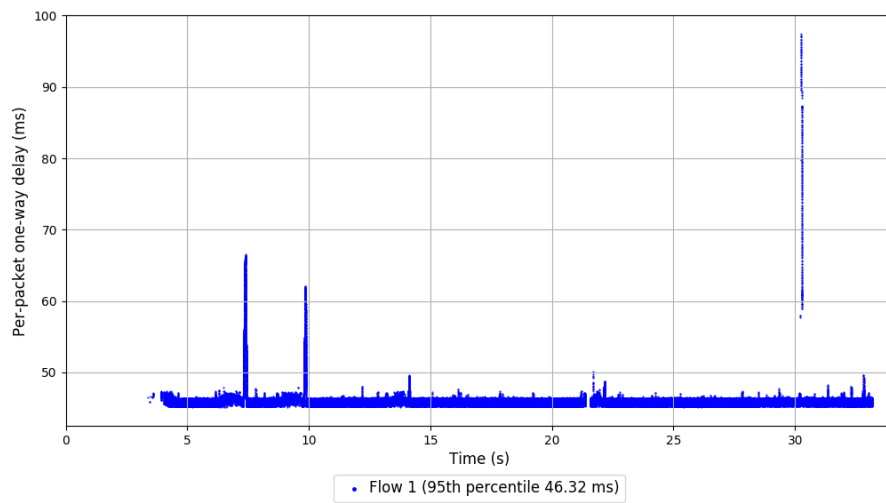
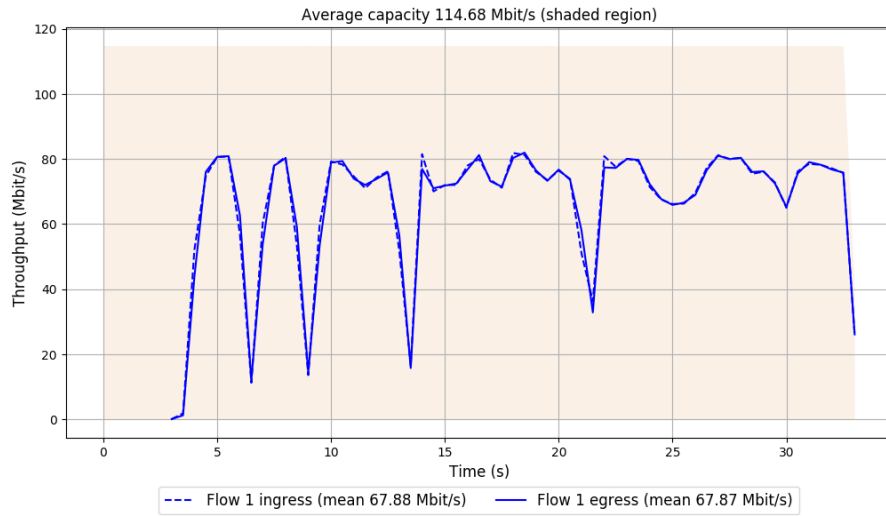
-- Flow 1:

Average throughput: 67.87 Mbit/s

95th percentile per-packet one-way delay: 46.323 ms

Loss rate: 0.17%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-27 06:58:25

End at: 2018-02-27 06:58:55

Below is generated by plot.py at 2018-02-27 08:20:52

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 70.07 Mbit/s (61.1% utilization)

95th percentile per-packet one-way delay: 46.330 ms

Loss rate: 0.17%

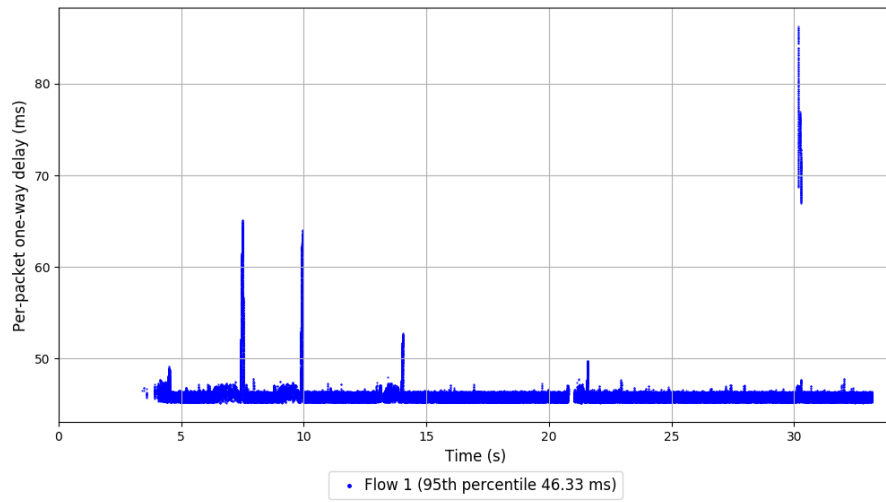
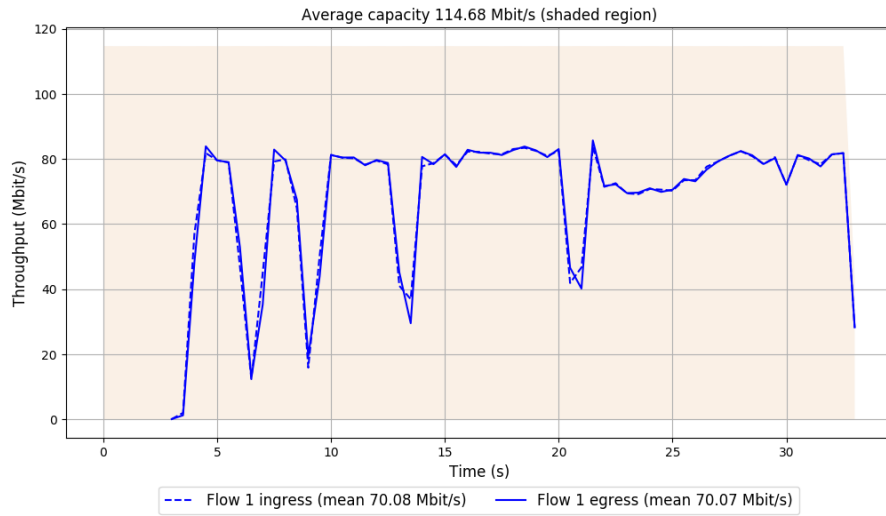
-- Flow 1:

Average throughput: 70.07 Mbit/s

95th percentile per-packet one-way delay: 46.330 ms

Loss rate: 0.17%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-27 07:10:21

End at: 2018-02-27 07:10:51

Below is generated by plot.py at 2018-02-27 08:21:03

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 70.36 Mbit/s (61.3% utilization)

95th percentile per-packet one-way delay: 46.293 ms

Loss rate: 0.17%

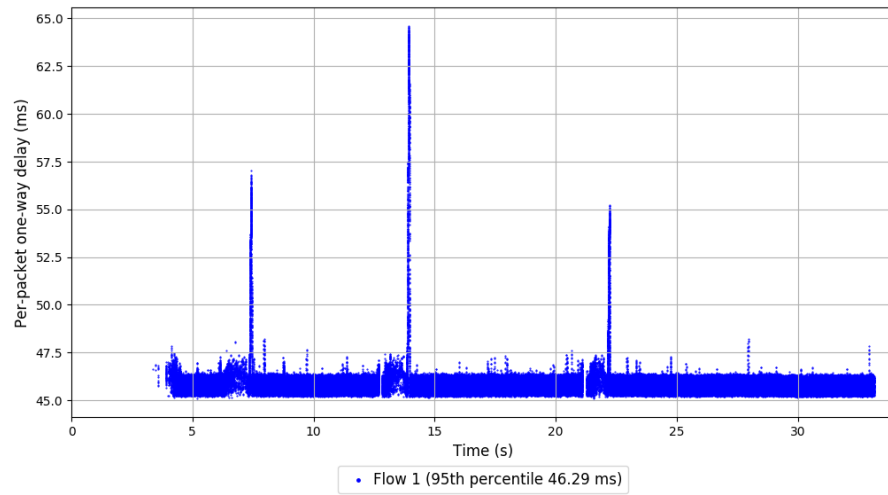
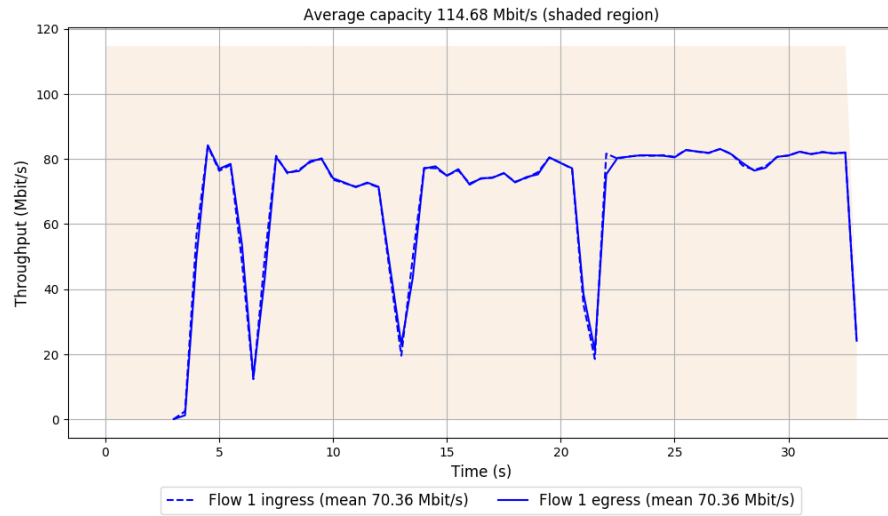
-- Flow 1:

Average throughput: 70.36 Mbit/s

95th percentile per-packet one-way delay: 46.293 ms

Loss rate: 0.17%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-27 07:22:14

End at: 2018-02-27 07:22:44

Below is generated by plot.py at 2018-02-27 08:21:12

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 69.66 Mbit/s (60.7% utilization)

95th percentile per-packet one-way delay: 46.325 ms

Loss rate: 0.18%

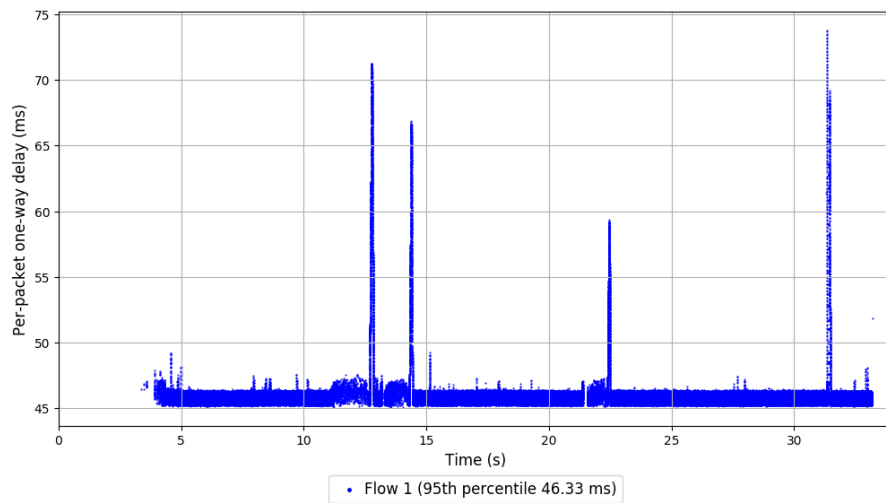
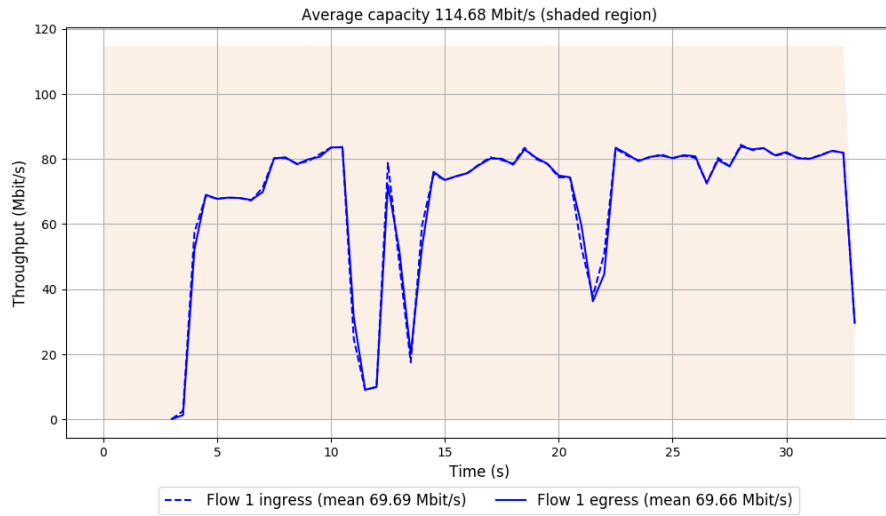
-- Flow 1:

Average throughput: 69.66 Mbit/s

95th percentile per-packet one-way delay: 46.325 ms

Loss rate: 0.18%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-27 07:34:27

End at: 2018-02-27 07:34:57

Below is generated by plot.py at 2018-02-27 08:21:55

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 71.14 Mbit/s (62.0% utilization)

95th percentile per-packet one-way delay: 46.313 ms

Loss rate: 0.17%

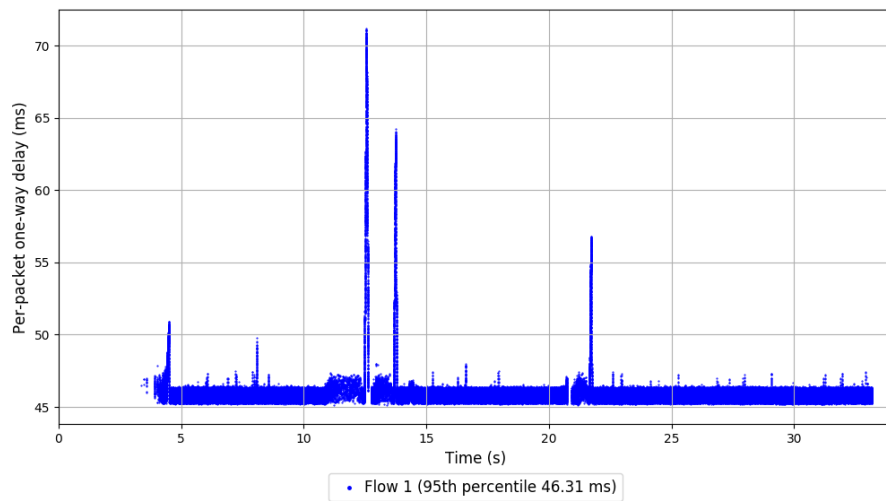
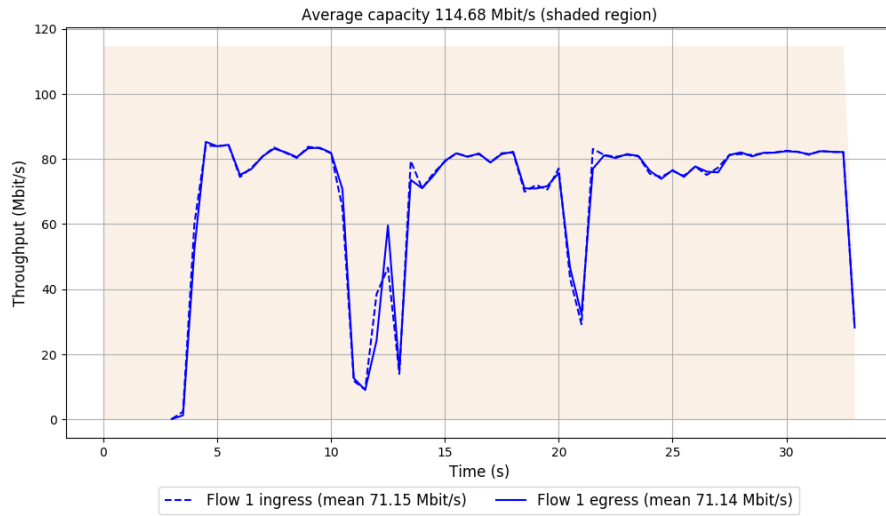
-- Flow 1:

Average throughput: 71.14 Mbit/s

95th percentile per-packet one-way delay: 46.313 ms

Loss rate: 0.17%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-27 07:46:20

End at: 2018-02-27 07:46:50

Below is generated by plot.py at 2018-02-27 08:21:59

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 74.14 Mbit/s (64.6% utilization)

95th percentile per-packet one-way delay: 46.297 ms

Loss rate: 0.17%

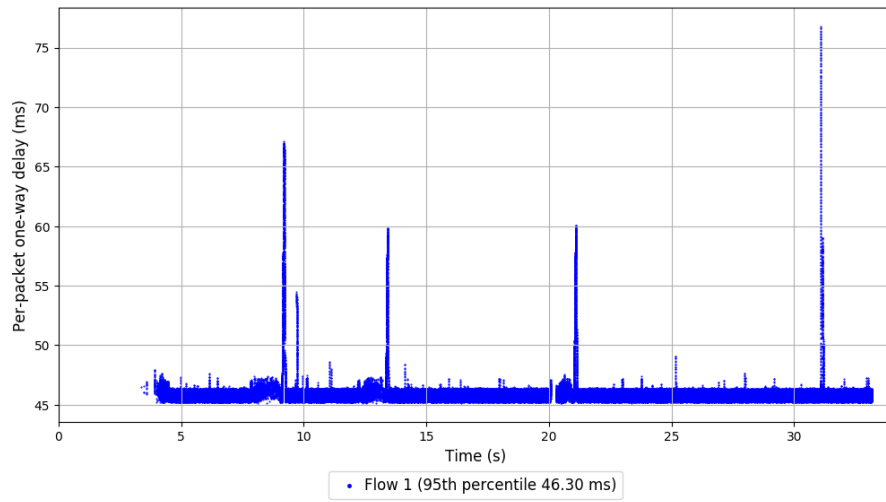
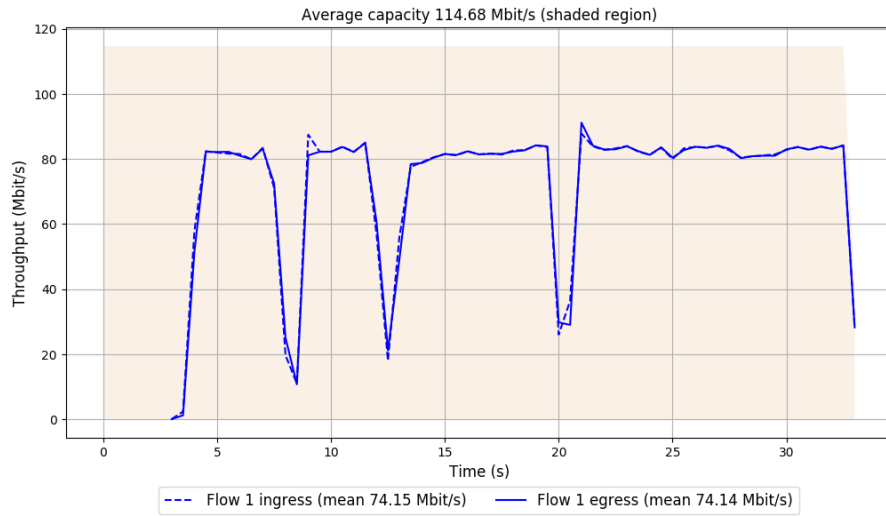
-- Flow 1:

Average throughput: 74.14 Mbit/s

95th percentile per-packet one-way delay: 46.297 ms

Loss rate: 0.17%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-27 07:58:12

End at: 2018-02-27 07:58:42

Below is generated by plot.py at 2018-02-27 08:21:59

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 71.88 Mbit/s (62.7% utilization)

95th percentile per-packet one-way delay: 46.307 ms

Loss rate: 0.16%

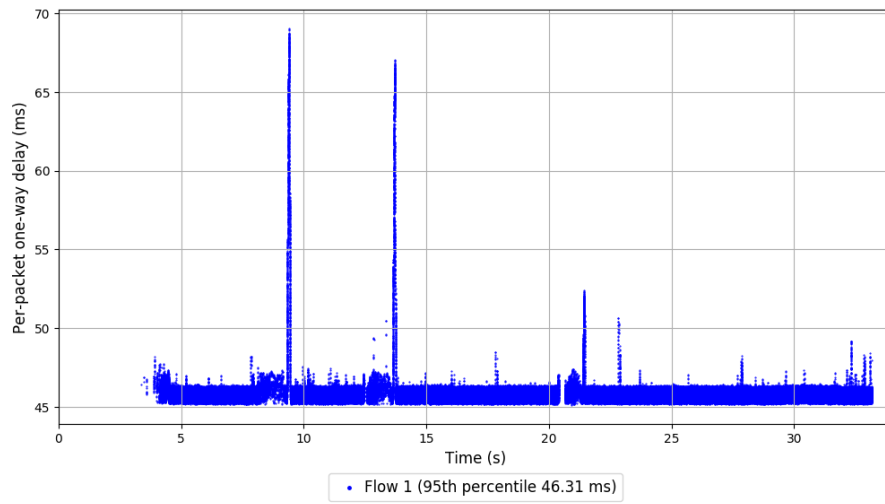
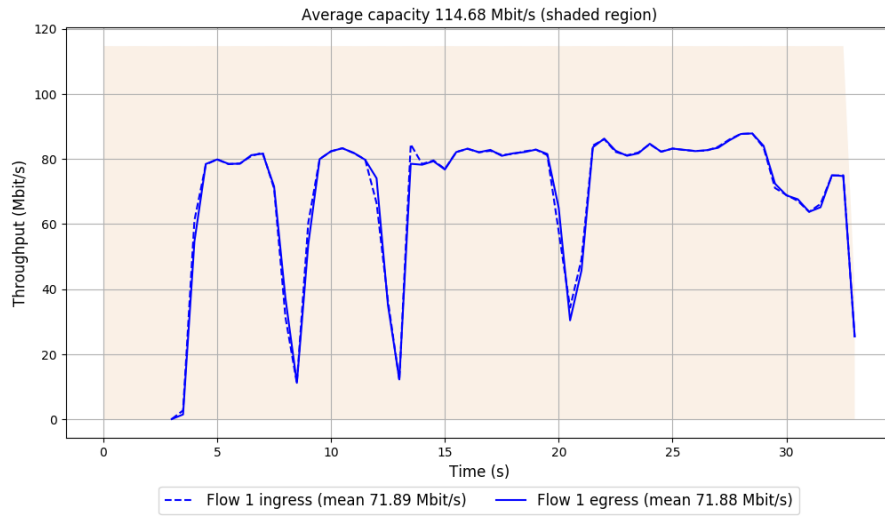
-- Flow 1:

Average throughput: 71.88 Mbit/s

95th percentile per-packet one-way delay: 46.307 ms

Loss rate: 0.16%

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2018-02-27 06:15:41

End at: 2018-02-27 06:16:11

Below is generated by plot.py at 2018-02-27 08:21:59

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 0.22 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 47.467 ms

Loss rate: 0.12%

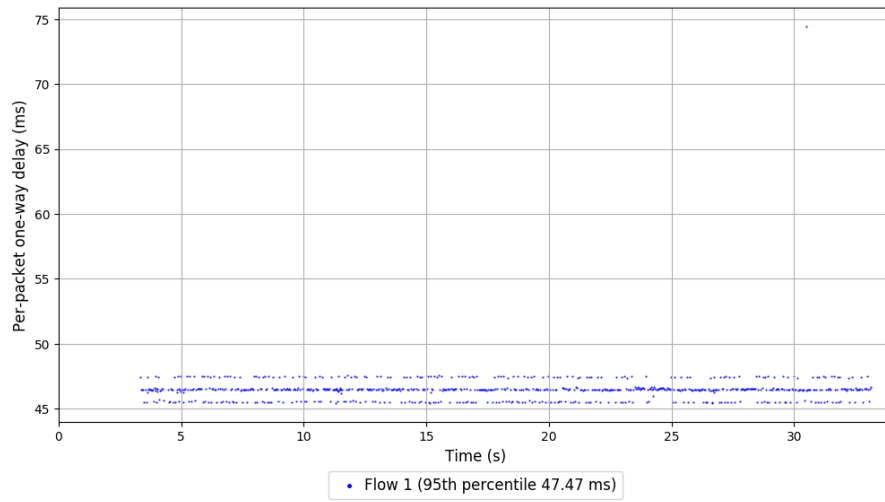
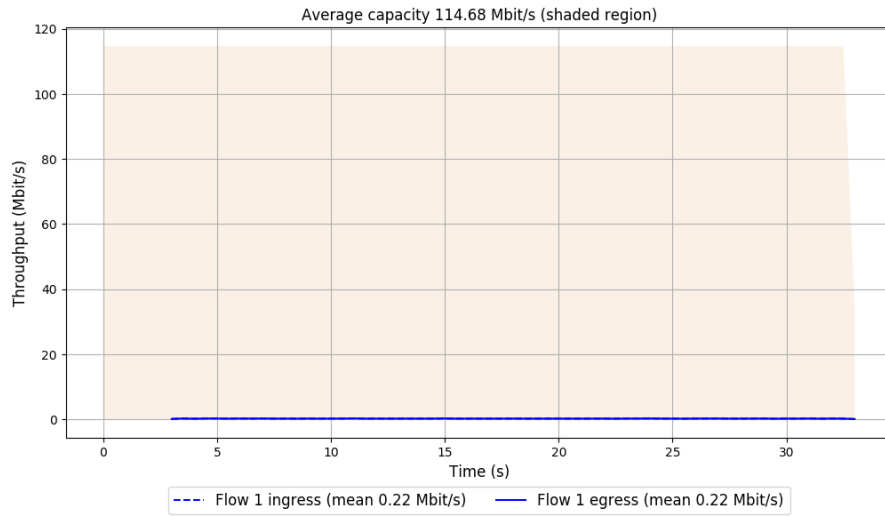
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.467 ms

Loss rate: 0.12%

Run 1: Report of SCReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-02-27 06:27:32

End at: 2018-02-27 06:28:02

Below is generated by plot.py at 2018-02-27 08:21:59

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 0.22 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 46.569 ms

Loss rate: 0.13%

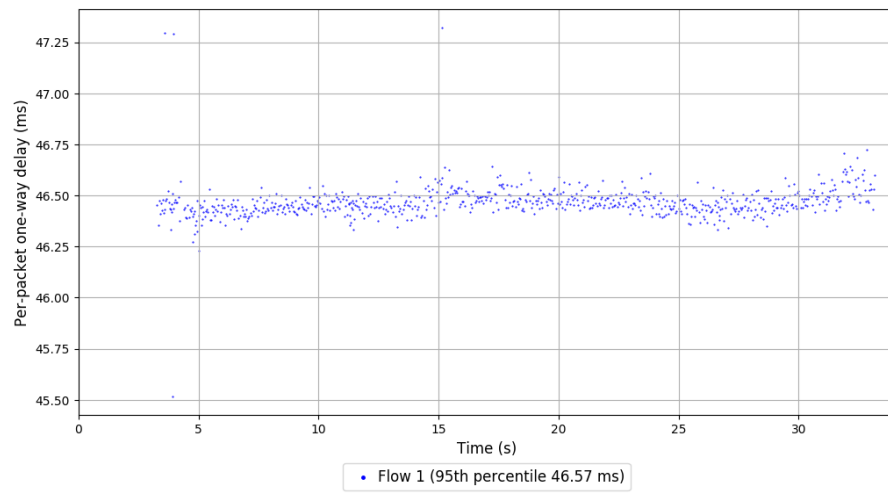
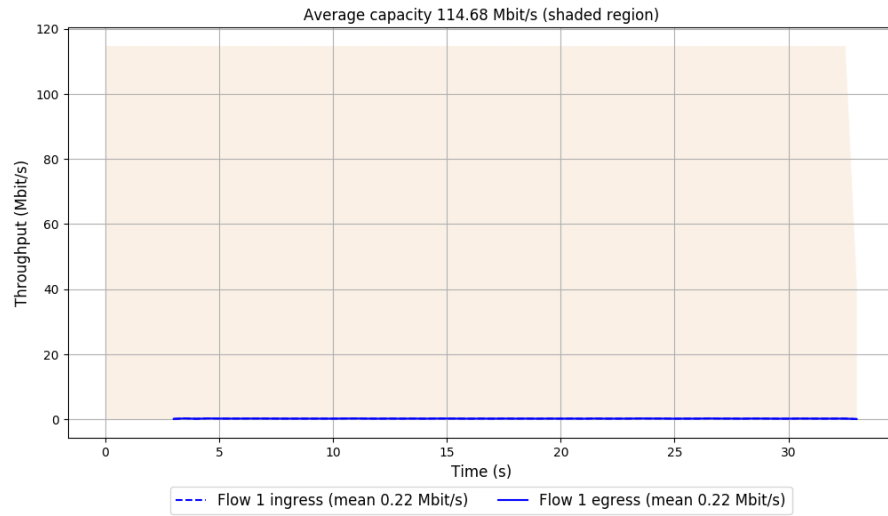
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 46.569 ms

Loss rate: 0.13%

Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-27 06:39:24

End at: 2018-02-27 06:39:54

Below is generated by plot.py at 2018-02-27 08:21:59

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 0.22 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 46.556 ms

Loss rate: 0.13%

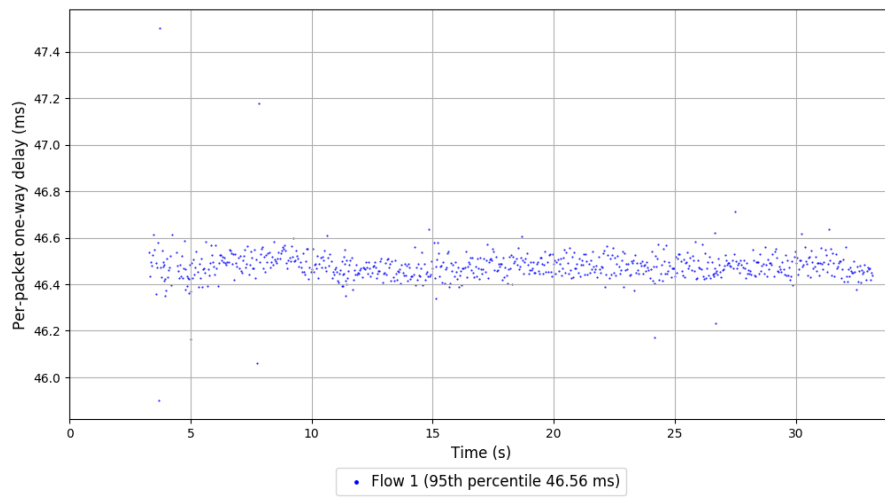
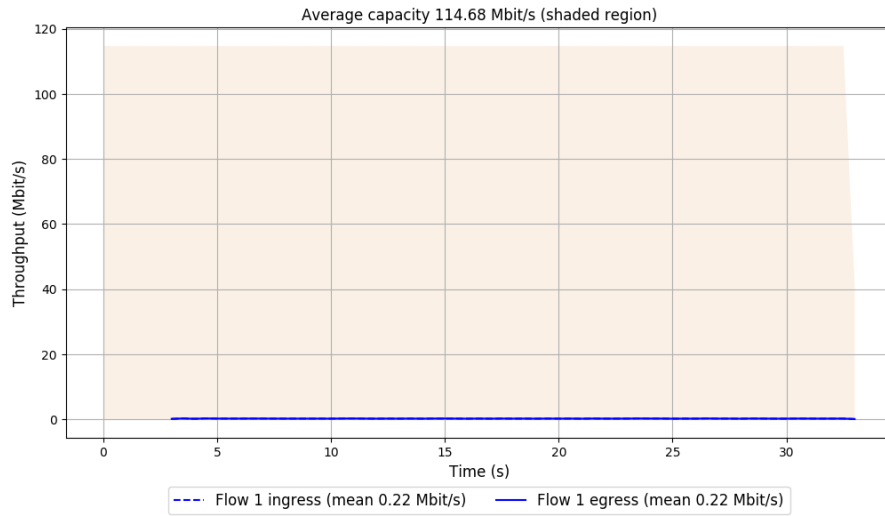
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 46.556 ms

Loss rate: 0.13%

Run 3: Report of SCReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-02-27 06:51:18

End at: 2018-02-27 06:51:48

Below is generated by plot.py at 2018-02-27 08:21:59

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 0.22 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 46.582 ms

Loss rate: 0.13%

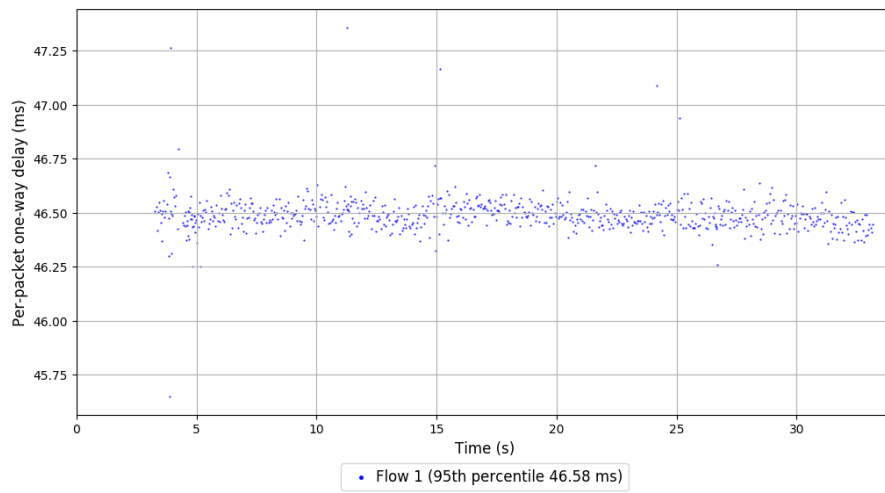
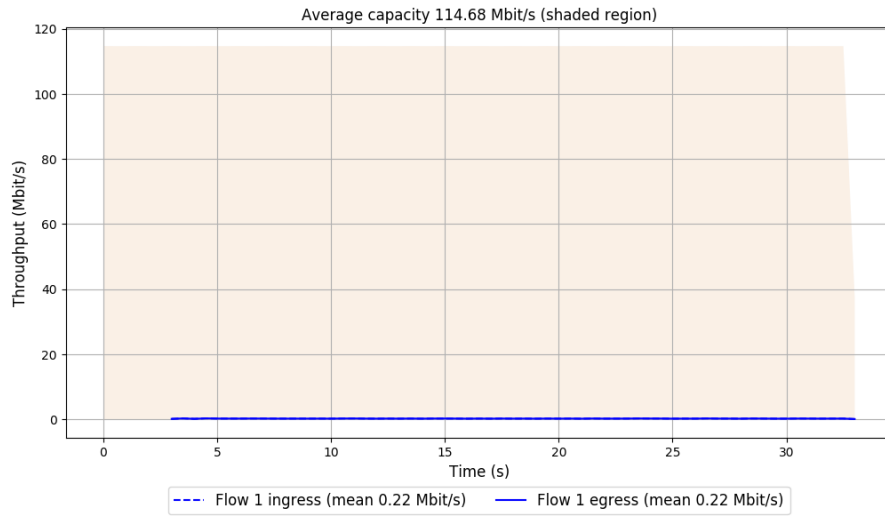
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 46.582 ms

Loss rate: 0.13%

Run 4: Report of SCReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-27 07:03:11

End at: 2018-02-27 07:03:41

Below is generated by plot.py at 2018-02-27 08:21:59

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 0.22 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 46.592 ms

Loss rate: 0.13%

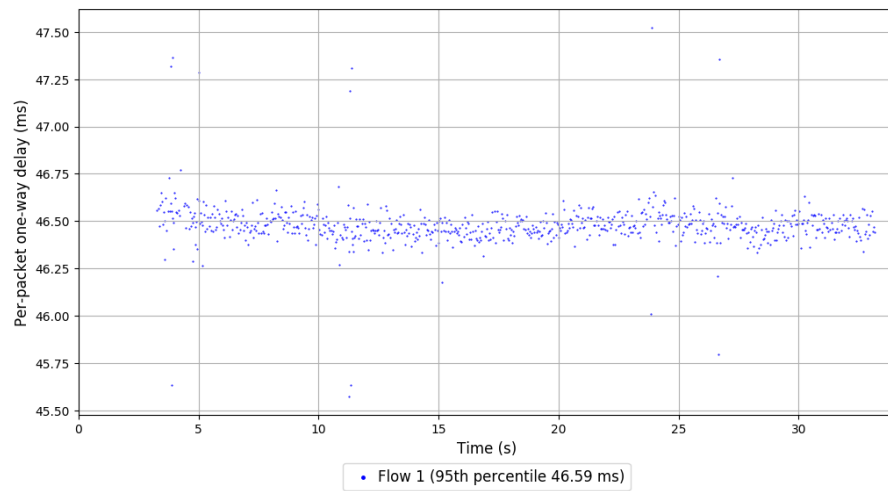
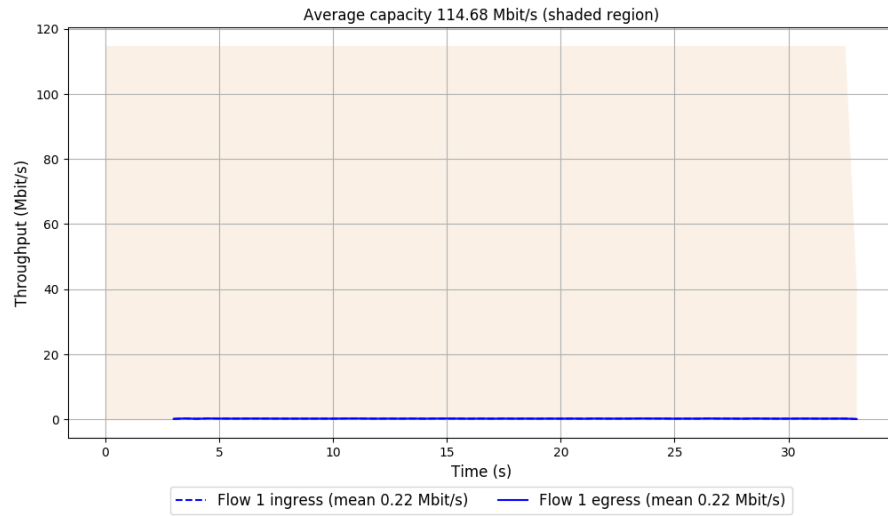
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 46.592 ms

Loss rate: 0.13%

Run 5: Report of SCReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-27 07:15:04

End at: 2018-02-27 07:15:34

Below is generated by plot.py at 2018-02-27 08:21:59

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 0.22 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 46.520 ms

Loss rate: 0.13%

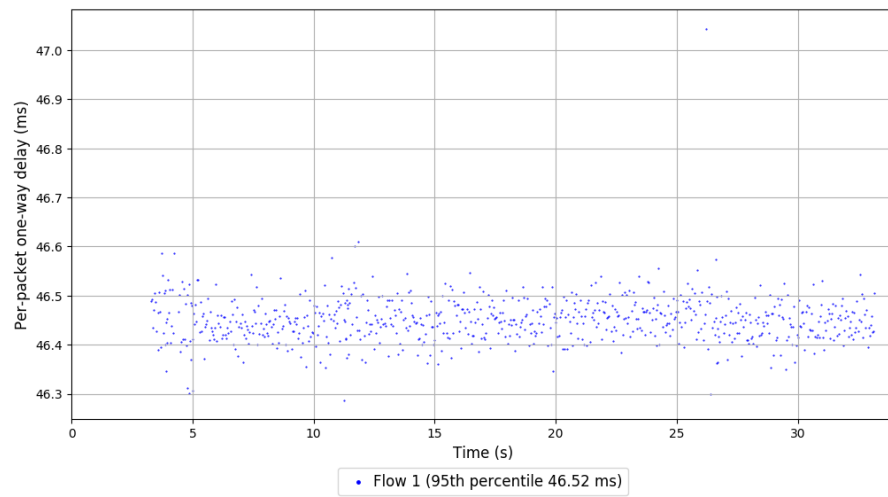
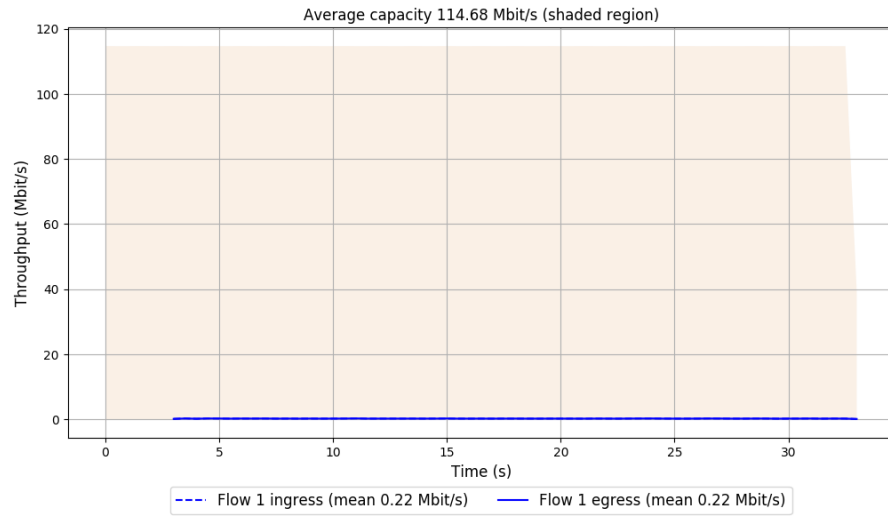
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 46.520 ms

Loss rate: 0.13%

Run 6: Report of SCReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-27 07:26:57

End at: 2018-02-27 07:27:27

Below is generated by plot.py at 2018-02-27 08:21:59

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 0.22 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 46.538 ms

Loss rate: 0.13%

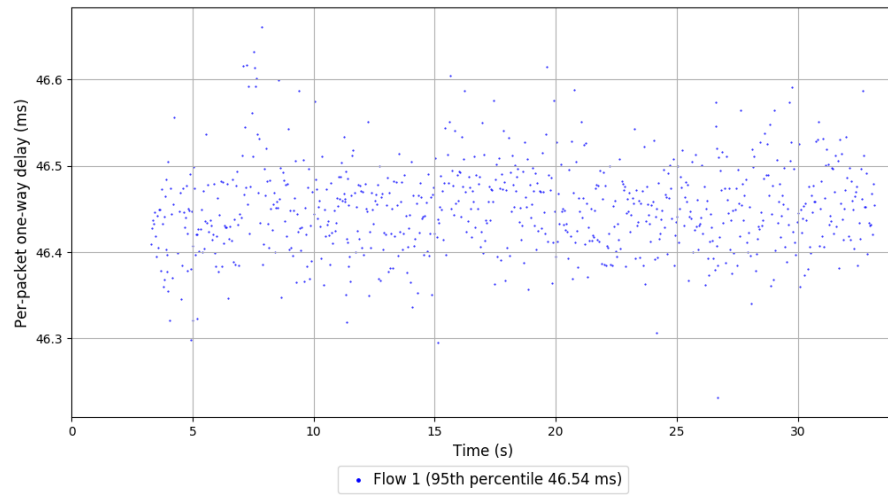
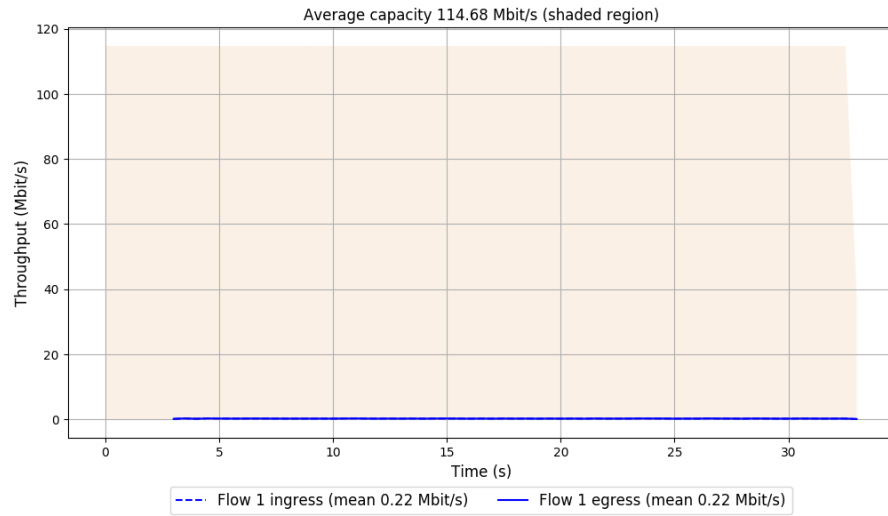
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 46.538 ms

Loss rate: 0.13%

Run 7: Report of SCReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-27 07:39:09

End at: 2018-02-27 07:39:39

Below is generated by plot.py at 2018-02-27 08:22:06

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 0.22 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 46.535 ms

Loss rate: 0.13%

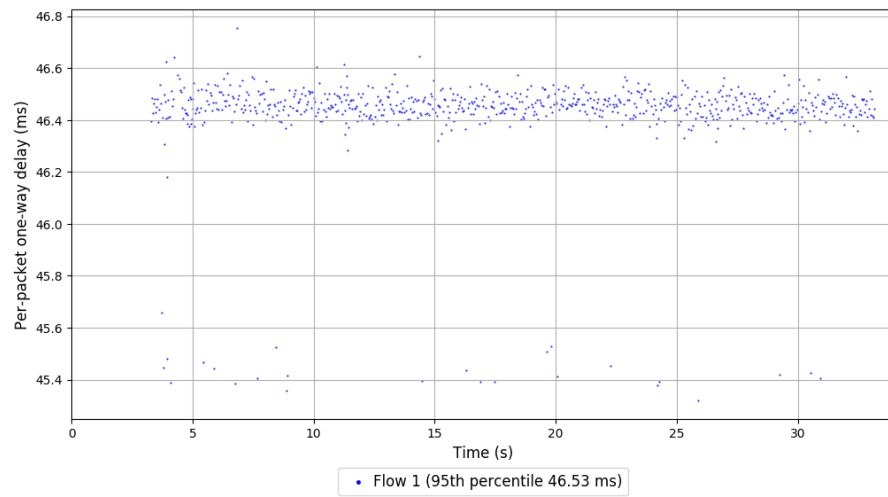
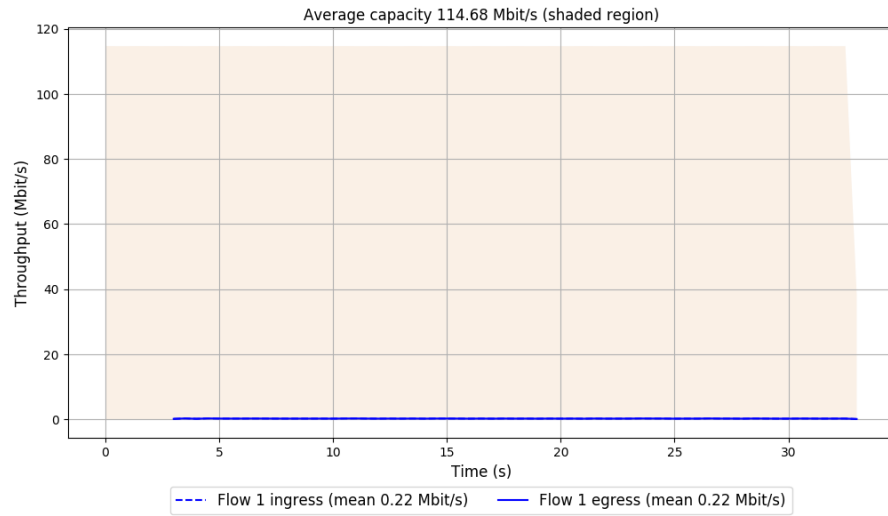
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 46.535 ms

Loss rate: 0.13%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-27 07:51:02

End at: 2018-02-27 07:51:32

Below is generated by plot.py at 2018-02-27 08:22:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 0.22 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 46.544 ms

Loss rate: 0.13%

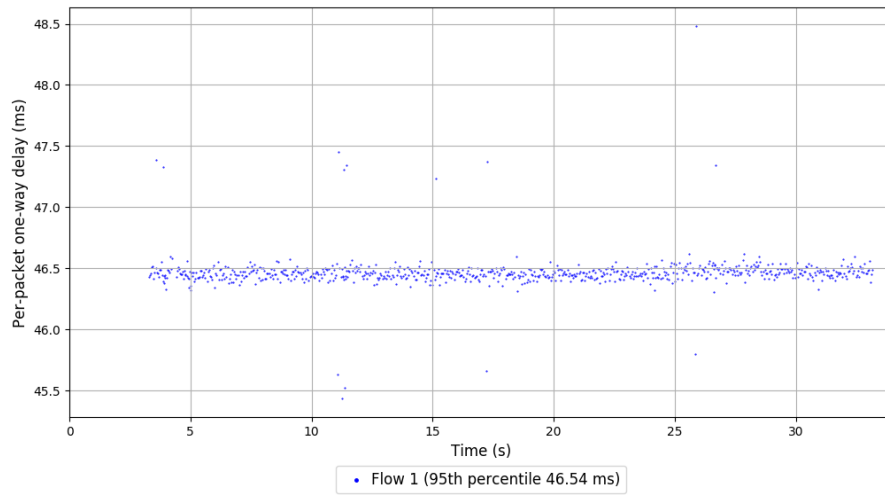
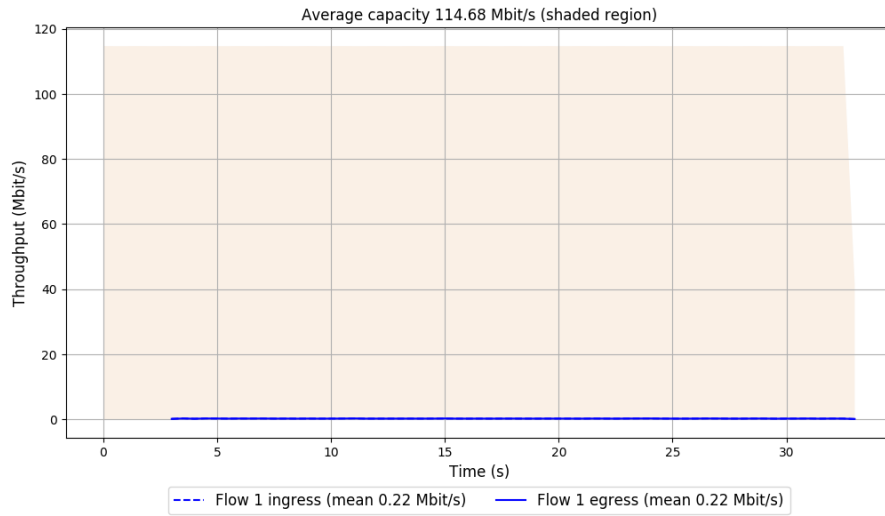
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 46.544 ms

Loss rate: 0.13%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-27 08:02:53

End at: 2018-02-27 08:03:23

Below is generated by plot.py at 2018-02-27 08:22:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 0.22 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 46.580 ms

Loss rate: 0.13%

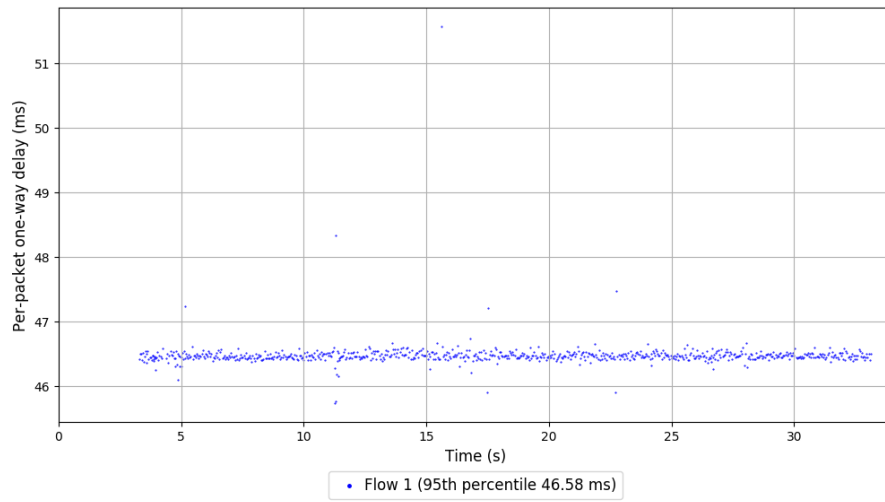
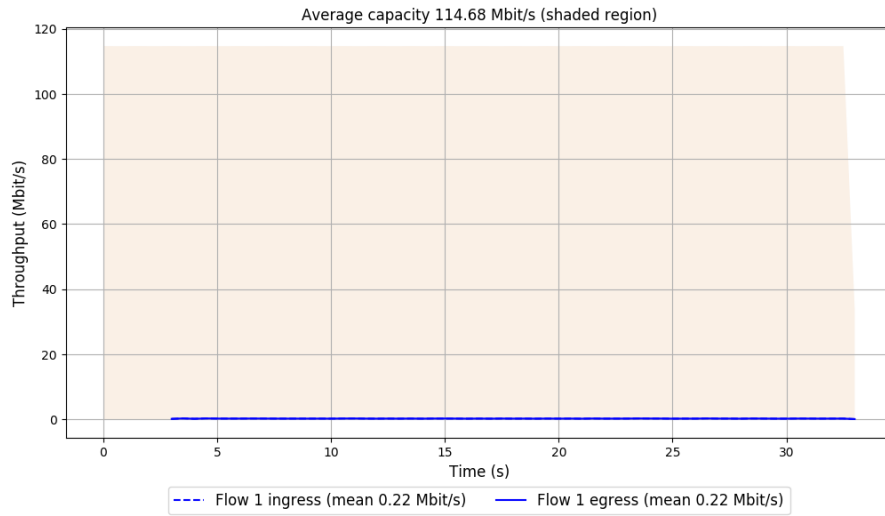
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 46.580 ms

Loss rate: 0.13%

Run 10: Report of SCReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-02-27 06:10:27

End at: 2018-02-27 06:10:57

Below is generated by plot.py at 2018-02-27 08:22:15

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 2.35 Mbit/s (2.0% utilization)

95th percentile per-packet one-way delay: 47.195 ms

Loss rate: 0.19%

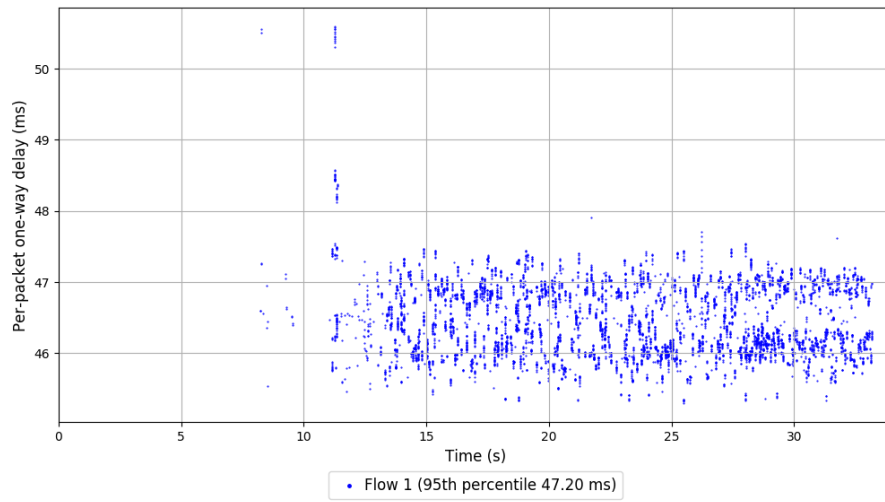
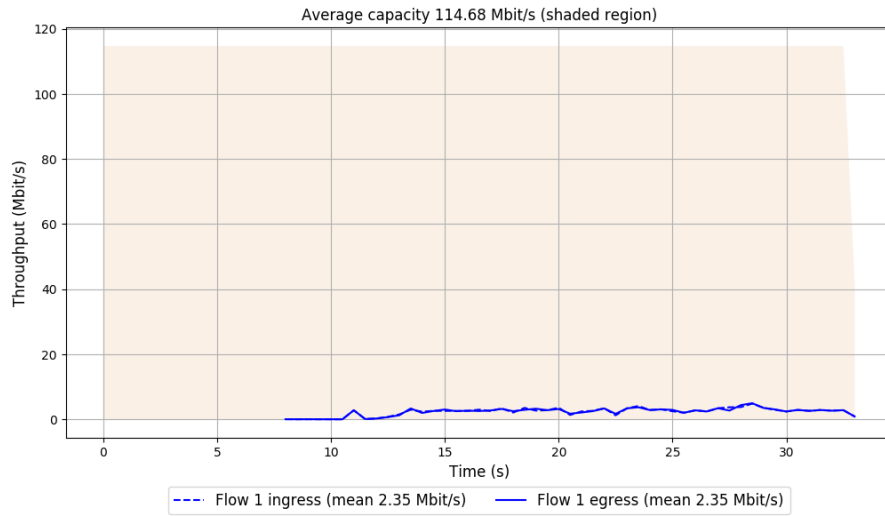
-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 47.195 ms

Loss rate: 0.19%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-27 06:22:14

End at: 2018-02-27 06:22:44

Below is generated by plot.py at 2018-02-27 08:22:25

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 2.34 Mbit/s (2.0% utilization)

95th percentile per-packet one-way delay: 47.145 ms

Loss rate: 0.15%

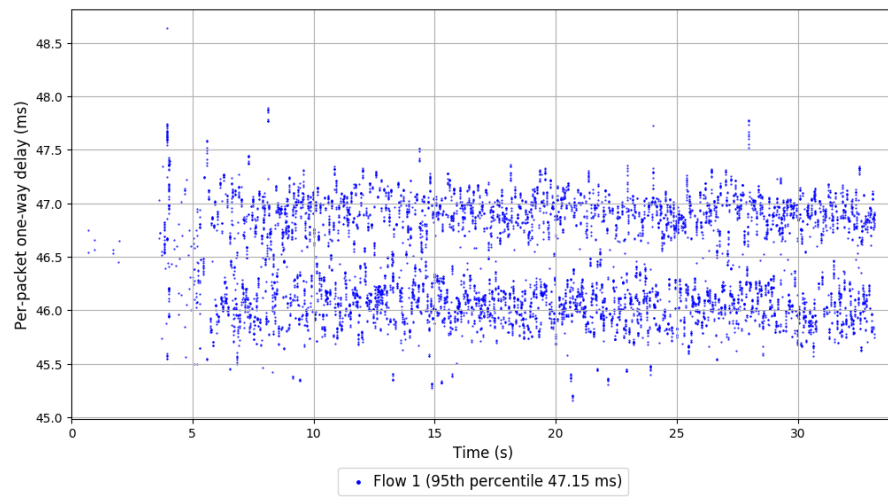
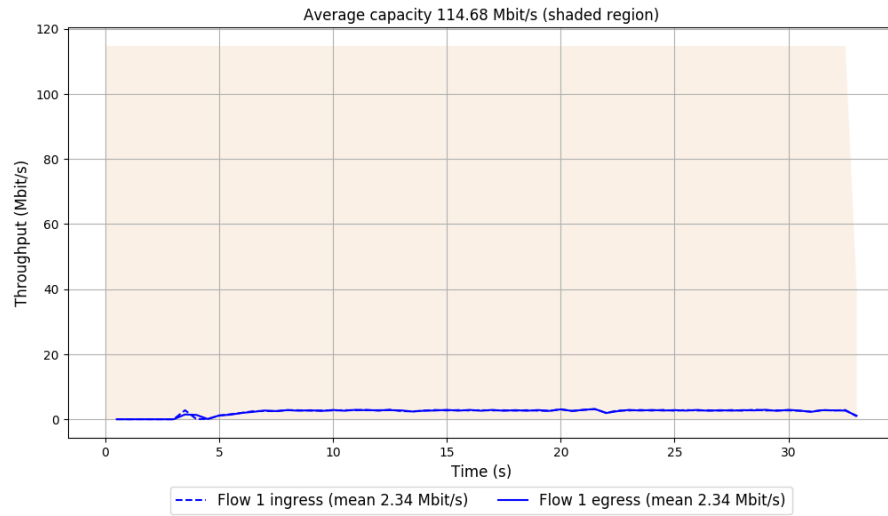
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 47.145 ms

Loss rate: 0.15%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-27 06:34:07

End at: 2018-02-27 06:34:37

Below is generated by plot.py at 2018-02-27 08:22:26

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 2.33 Mbit/s (2.0% utilization)

95th percentile per-packet one-way delay: 47.181 ms

Loss rate: 0.15%

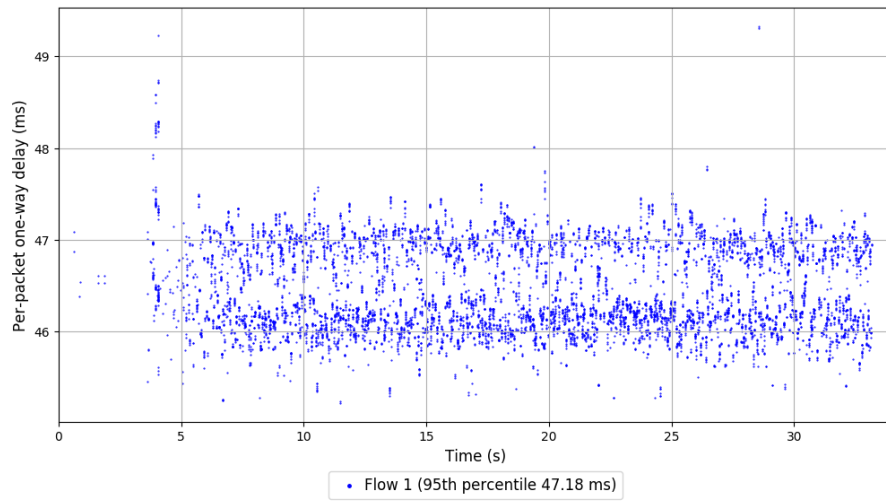
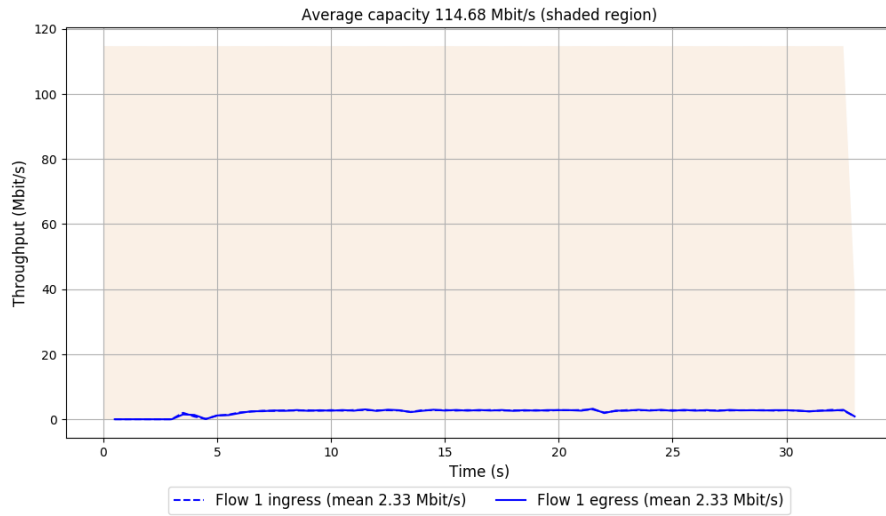
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 47.181 ms

Loss rate: 0.15%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-27 06:46:00

End at: 2018-02-27 06:46:30

Below is generated by plot.py at 2018-02-27 08:22:30

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 2.35 Mbit/s (2.1% utilization)

95th percentile per-packet one-way delay: 47.259 ms

Loss rate: 0.14%

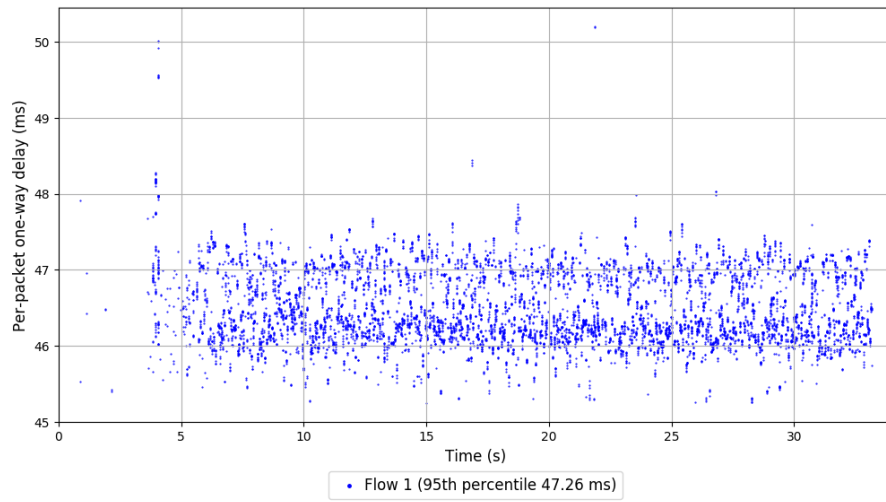
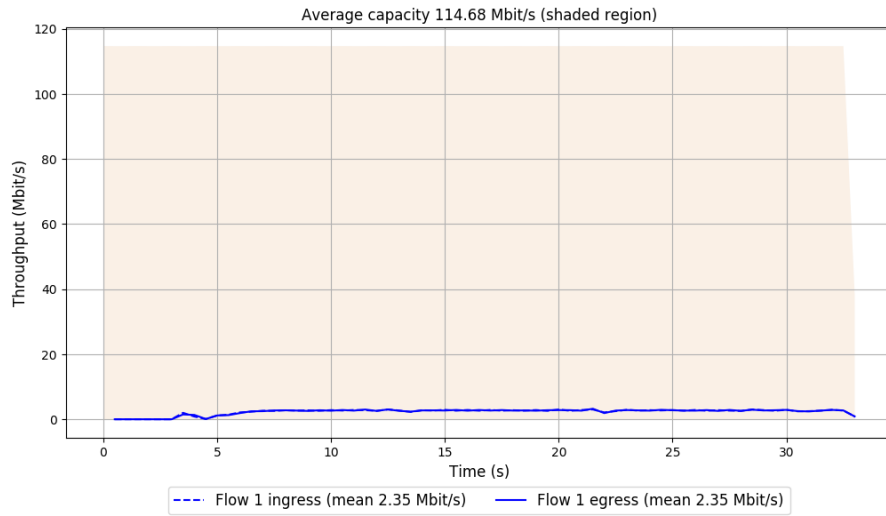
-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 47.259 ms

Loss rate: 0.14%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-27 06:57:50

End at: 2018-02-27 06:58:20

Below is generated by plot.py at 2018-02-27 08:22:32

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 2.33 Mbit/s (2.0% utilization)

95th percentile per-packet one-way delay: 47.190 ms

Loss rate: 0.14%

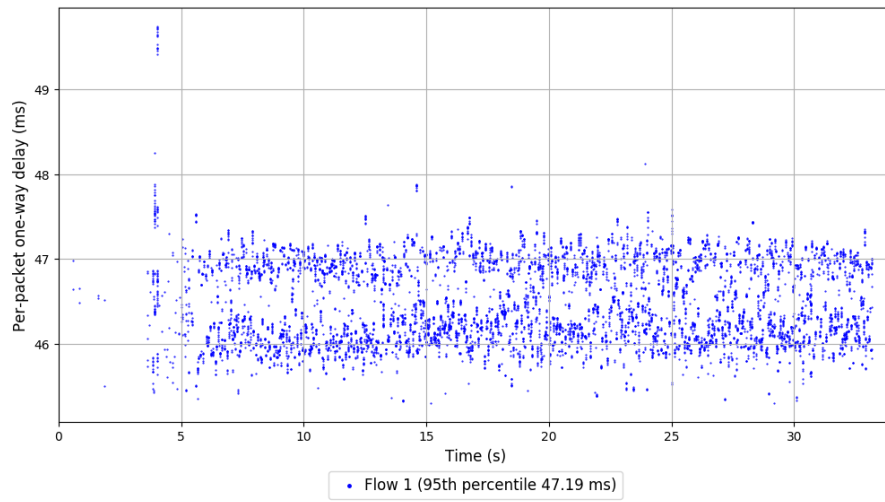
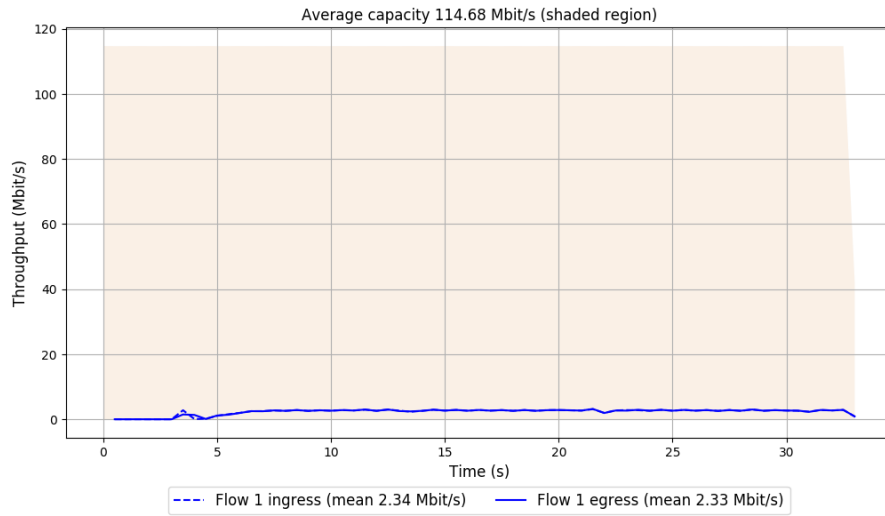
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 47.190 ms

Loss rate: 0.14%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-27 07:09:46

End at: 2018-02-27 07:10:16

Below is generated by plot.py at 2018-02-27 08:22:39

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 2.34 Mbit/s (2.0% utilization)

95th percentile per-packet one-way delay: 47.204 ms

Loss rate: 0.14%

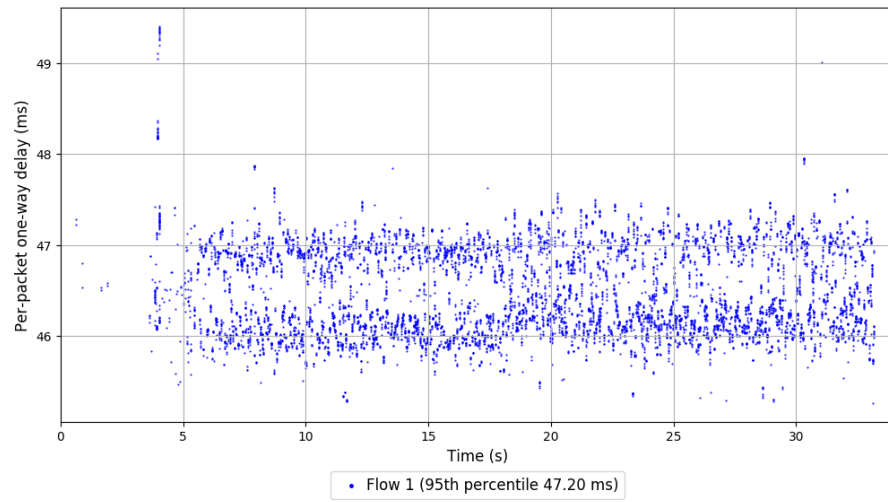
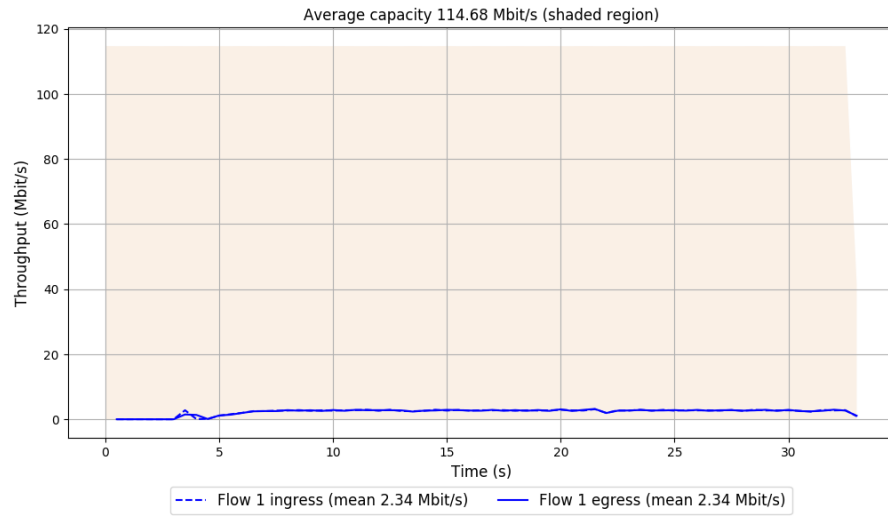
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 47.204 ms

Loss rate: 0.14%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-27 07:21:39

End at: 2018-02-27 07:22:09

Below is generated by plot.py at 2018-02-27 08:22:46

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 2.33 Mbit/s (2.0% utilization)

95th percentile per-packet one-way delay: 47.167 ms

Loss rate: 0.26%

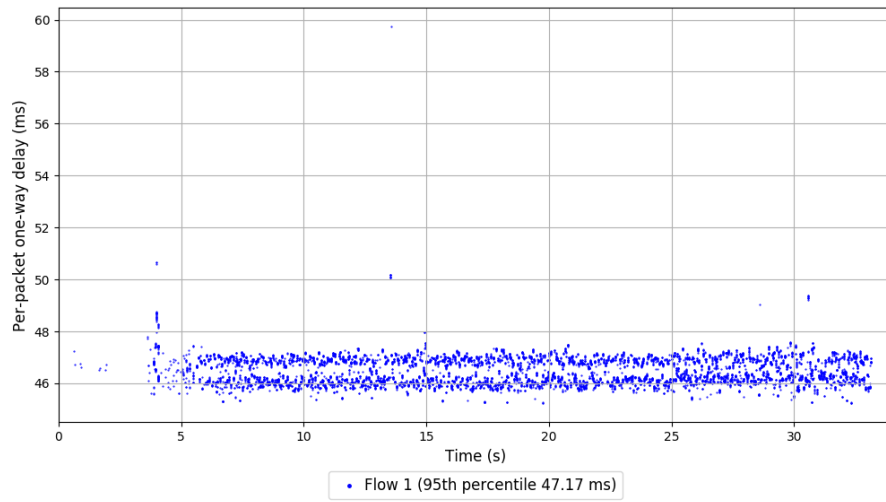
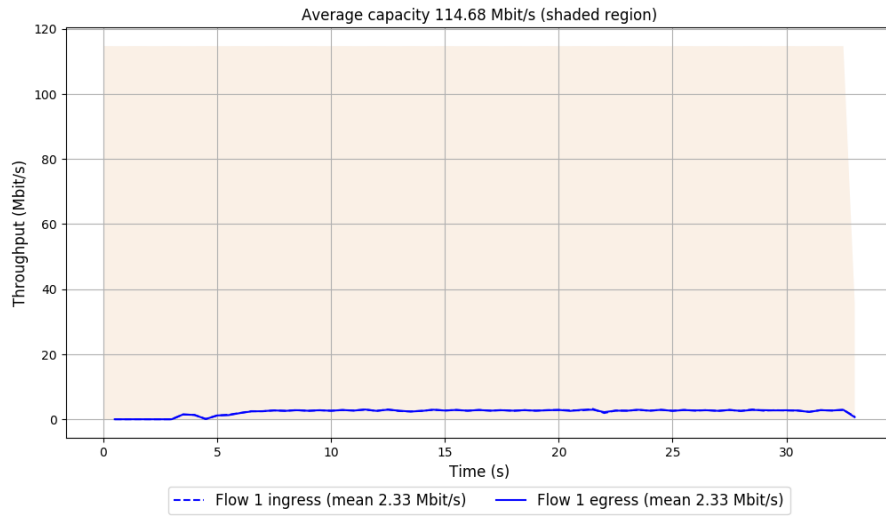
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 47.167 ms

Loss rate: 0.26%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-27 07:33:52

End at: 2018-02-27 07:34:22

Below is generated by plot.py at 2018-02-27 08:22:47

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 2.33 Mbit/s (2.0% utilization)

95th percentile per-packet one-way delay: 47.194 ms

Loss rate: 0.23%

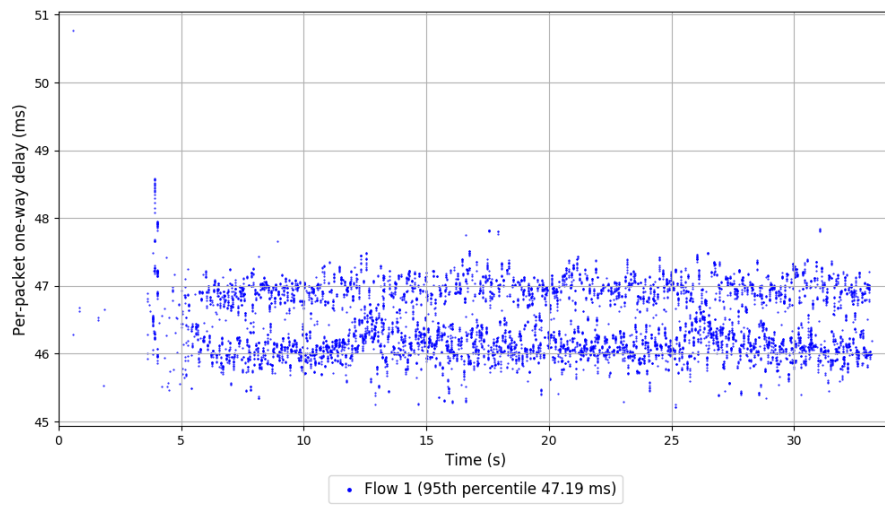
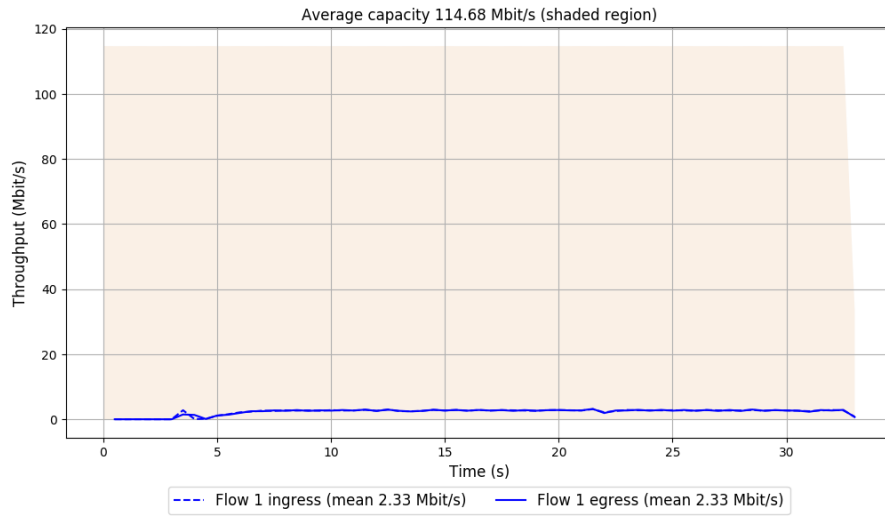
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 47.194 ms

Loss rate: 0.23%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-27 07:45:45

End at: 2018-02-27 07:46:15

Below is generated by plot.py at 2018-02-27 08:22:48

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 2.33 Mbit/s (2.0% utilization)

95th percentile per-packet one-way delay: 47.174 ms

Loss rate: 0.14%

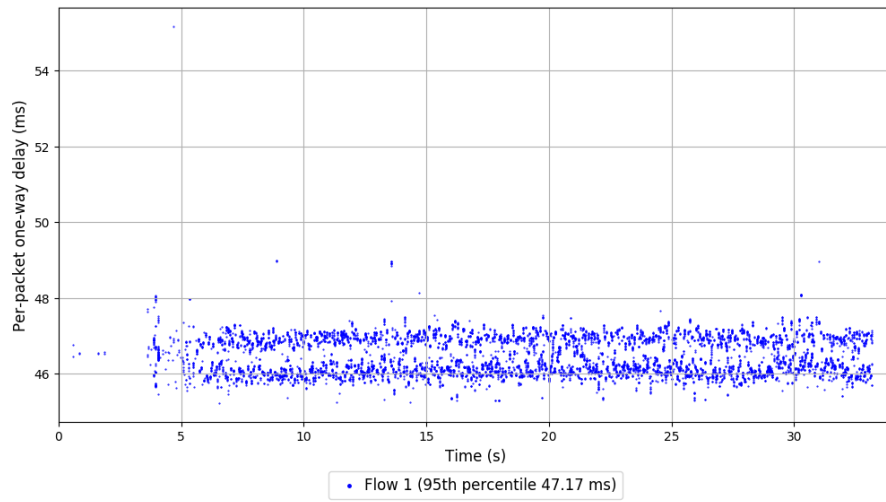
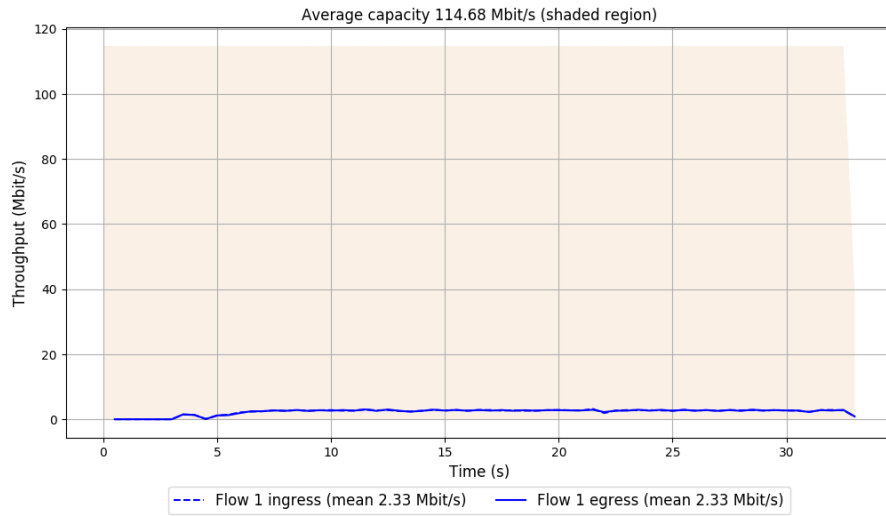
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 47.174 ms

Loss rate: 0.14%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-27 07:57:36

End at: 2018-02-27 07:58:06

Below is generated by plot.py at 2018-02-27 08:22:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 2.34 Mbit/s (2.0% utilization)

95th percentile per-packet one-way delay: 47.138 ms

Loss rate: 0.14%

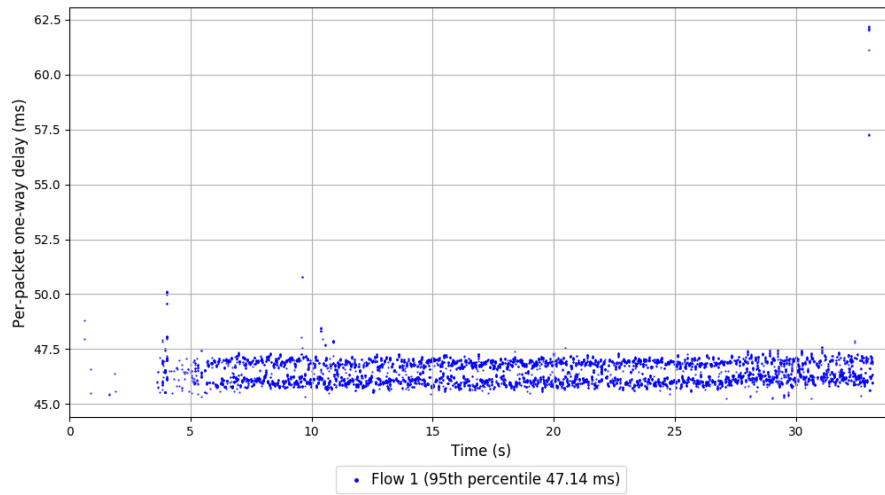
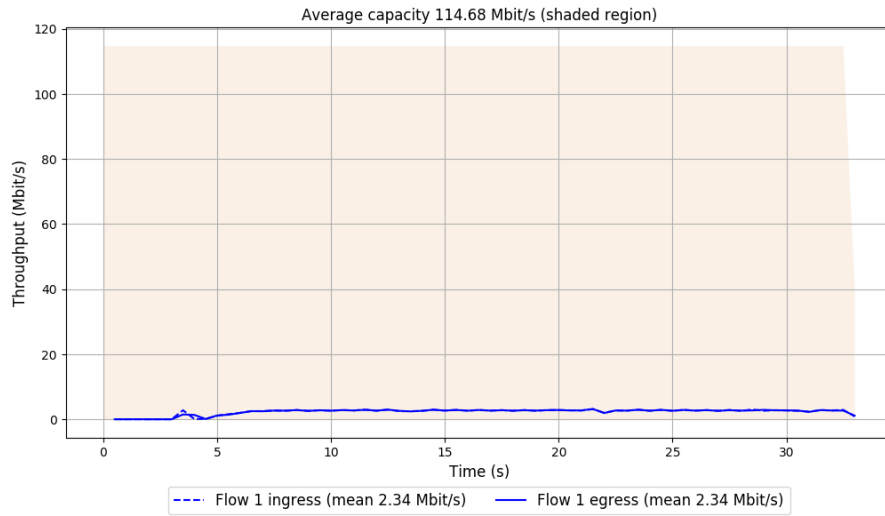
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 47.138 ms

Loss rate: 0.14%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-27 06:16:16

End at: 2018-02-27 06:16:46

Below is generated by plot.py at 2018-02-27 08:23:03

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 9.14 Mbit/s (8.0% utilization)

95th percentile per-packet one-way delay: 49.970 ms

Loss rate: 0.14%

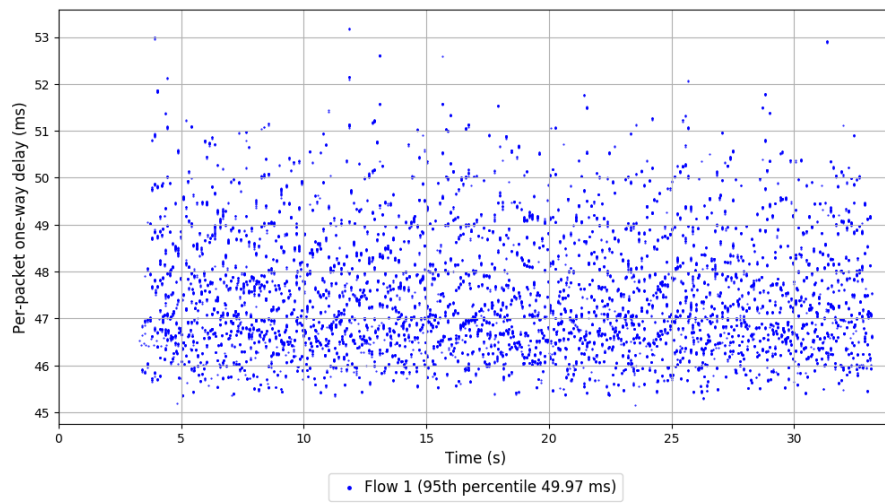
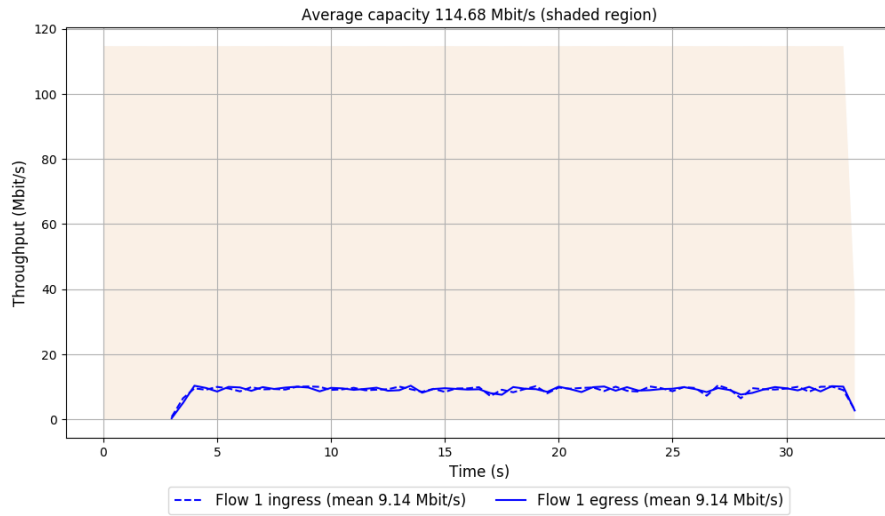
-- Flow 1:

Average throughput: 9.14 Mbit/s

95th percentile per-packet one-way delay: 49.970 ms

Loss rate: 0.14%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-27 06:28:07

End at: 2018-02-27 06:28:37

Below is generated by plot.py at 2018-02-27 08:23:08

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 8.95 Mbit/s (7.8% utilization)

95th percentile per-packet one-way delay: 50.064 ms

Loss rate: 0.12%

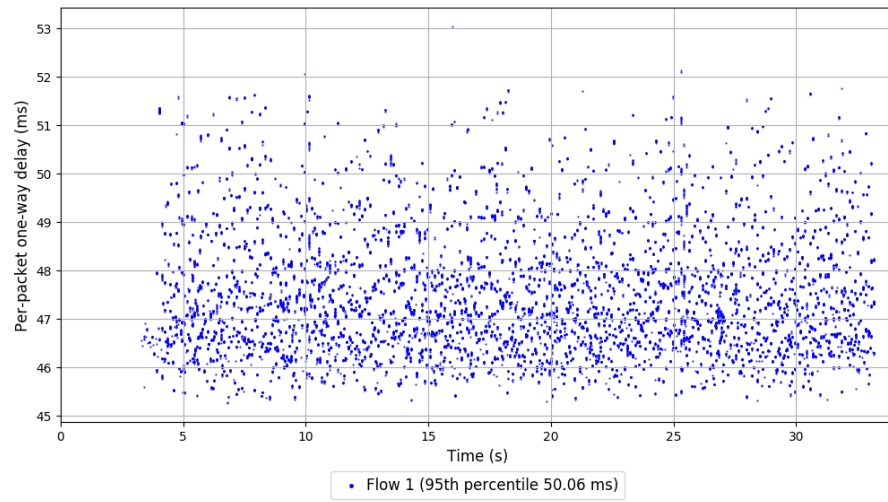
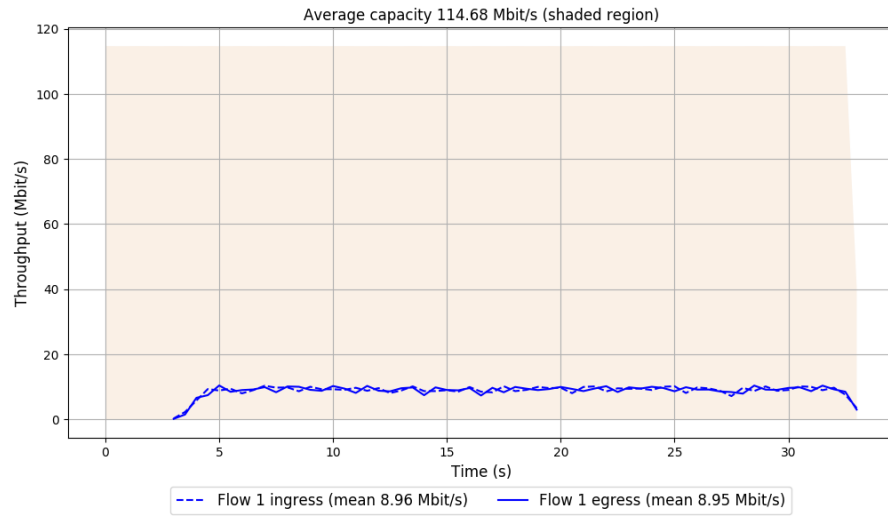
-- Flow 1:

Average throughput: 8.95 Mbit/s

95th percentile per-packet one-way delay: 50.064 ms

Loss rate: 0.12%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-27 06:39:59

End at: 2018-02-27 06:40:29

Below is generated by plot.py at 2018-02-27 08:23:09

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 9.07 Mbit/s (7.9% utilization)

95th percentile per-packet one-way delay: 49.950 ms

Loss rate: 0.10%

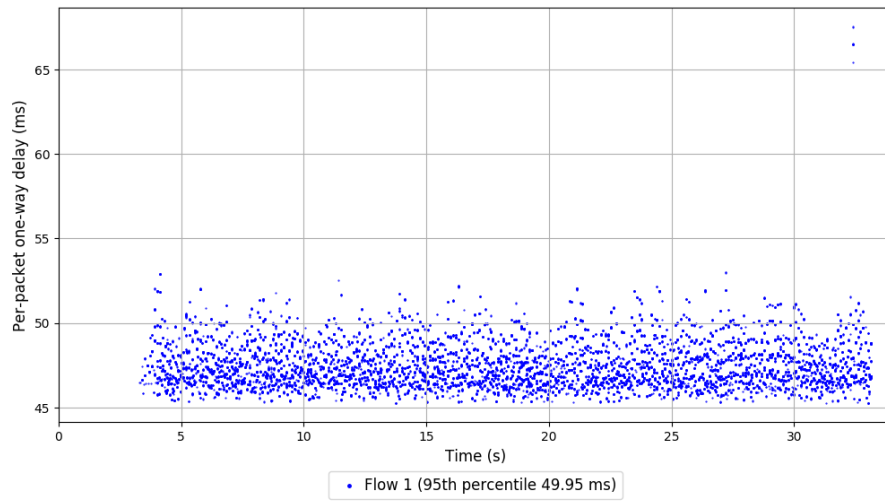
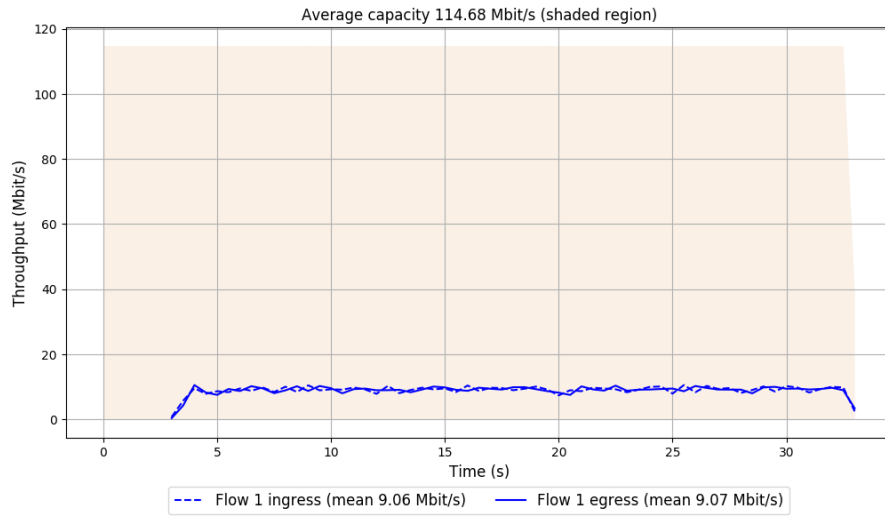
-- Flow 1:

Average throughput: 9.07 Mbit/s

95th percentile per-packet one-way delay: 49.950 ms

Loss rate: 0.10%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-27 06:51:53

End at: 2018-02-27 06:52:23

Below is generated by plot.py at 2018-02-27 08:23:17

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 9.17 Mbit/s (8.0% utilization)

95th percentile per-packet one-way delay: 49.932 ms

Loss rate: 0.30%

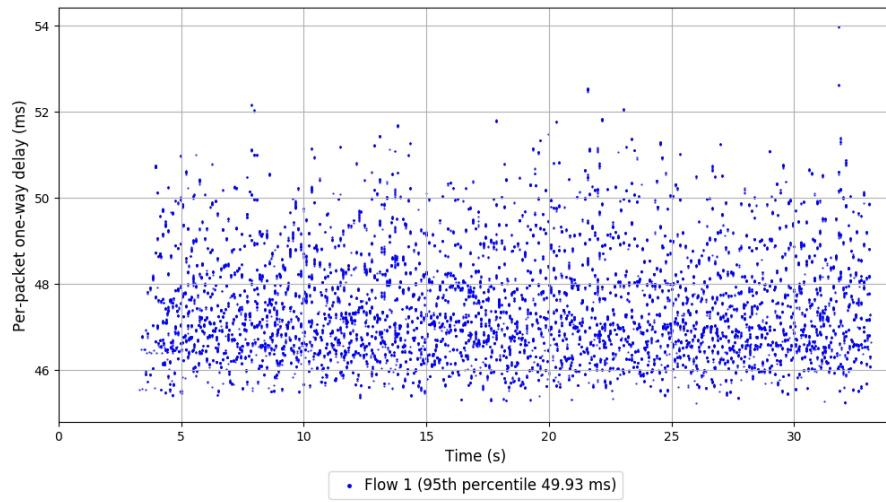
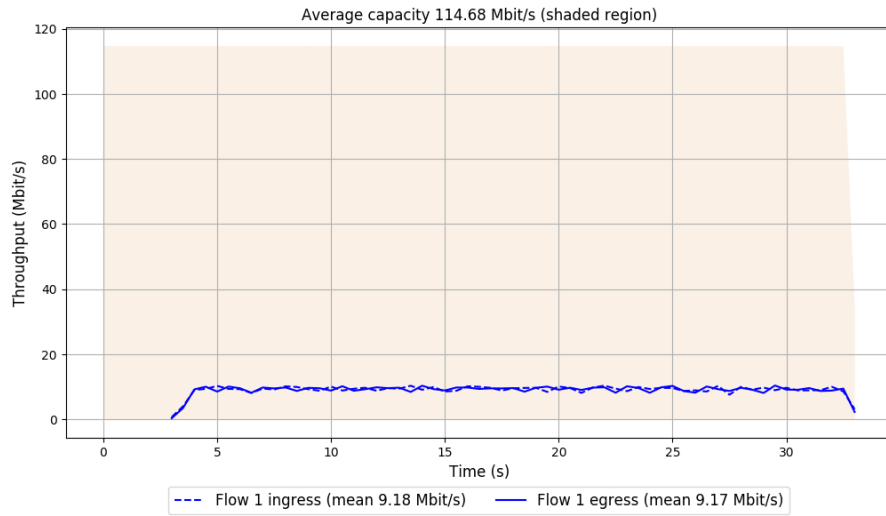
-- Flow 1:

Average throughput: 9.17 Mbit/s

95th percentile per-packet one-way delay: 49.932 ms

Loss rate: 0.30%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-27 07:03:47

End at: 2018-02-27 07:04:17

Below is generated by plot.py at 2018-02-27 08:23:26

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 9.17 Mbit/s (8.0% utilization)

95th percentile per-packet one-way delay: 50.127 ms

Loss rate: 0.30%

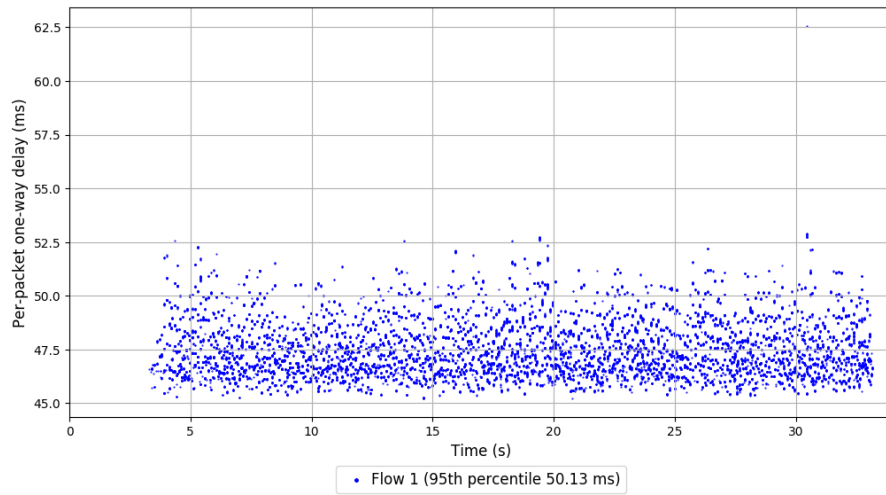
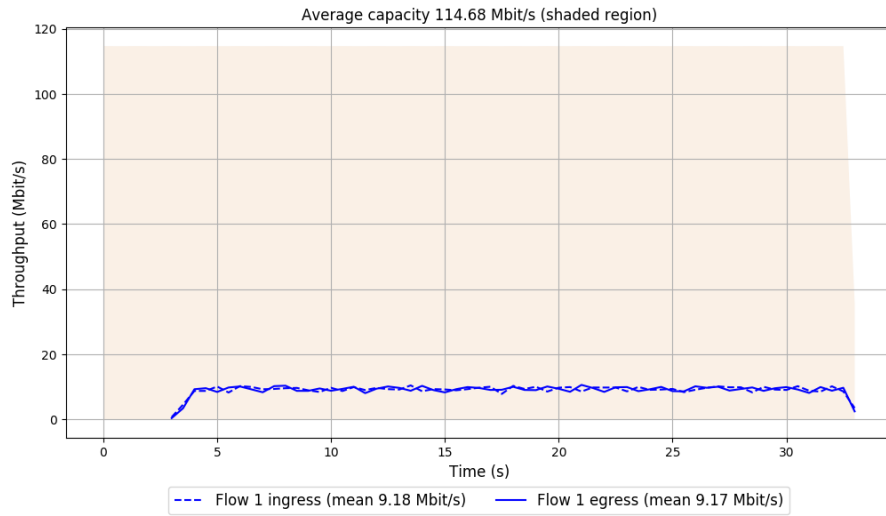
-- Flow 1:

Average throughput: 9.17 Mbit/s

95th percentile per-packet one-way delay: 50.127 ms

Loss rate: 0.30%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-27 07:15:39

End at: 2018-02-27 07:16:09

Below is generated by plot.py at 2018-02-27 08:23:28

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 9.12 Mbit/s (8.0% utilization)

95th percentile per-packet one-way delay: 49.984 ms

Loss rate: 0.25%

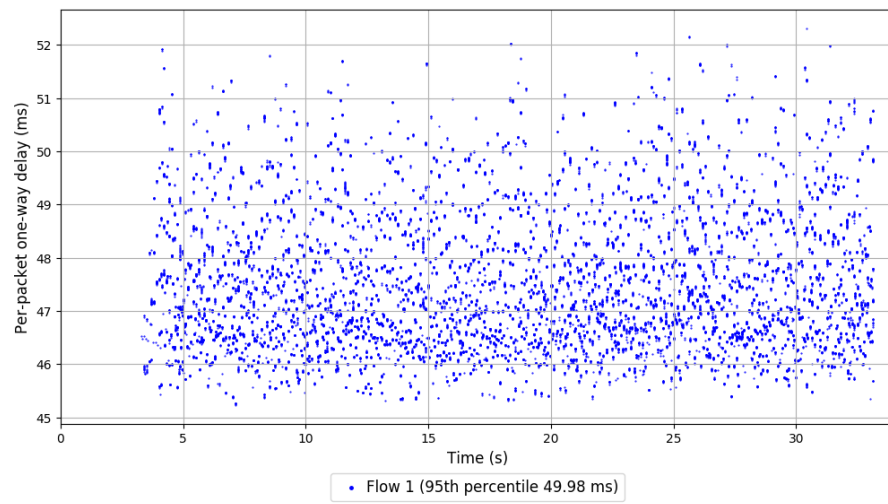
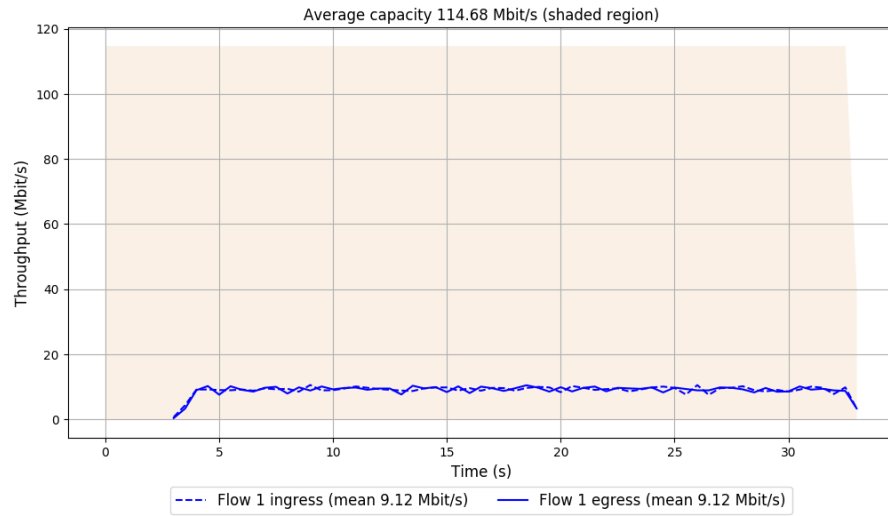
-- Flow 1:

Average throughput: 9.12 Mbit/s

95th percentile per-packet one-way delay: 49.984 ms

Loss rate: 0.25%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-27 07:27:32

End at: 2018-02-27 07:28:02

Below is generated by plot.py at 2018-02-27 08:23:28

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 9.16 Mbit/s (8.0% utilization)

95th percentile per-packet one-way delay: 49.932 ms

Loss rate: 0.07%

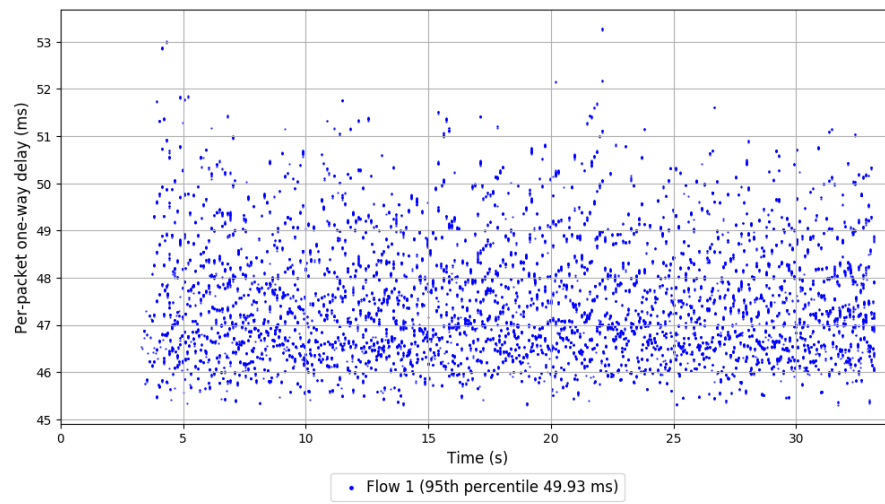
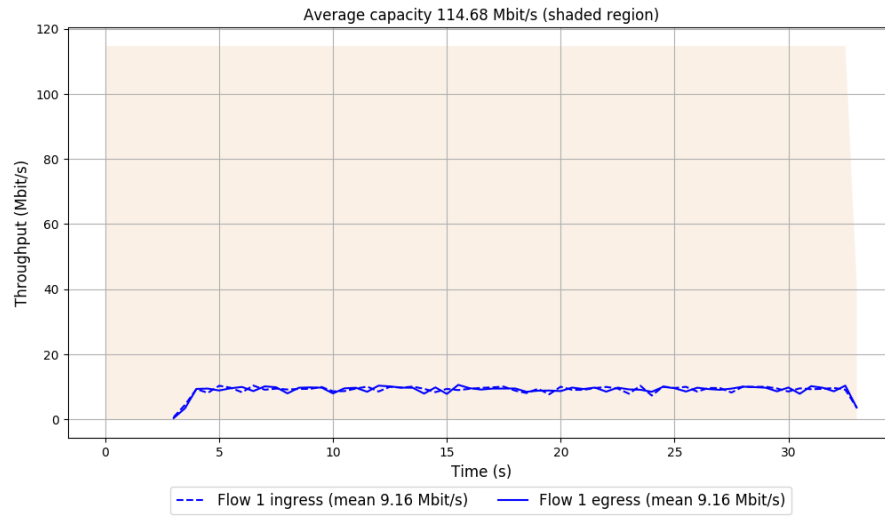
-- Flow 1:

Average throughput: 9.16 Mbit/s

95th percentile per-packet one-way delay: 49.932 ms

Loss rate: 0.07%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-27 07:39:44

End at: 2018-02-27 07:40:14

Below is generated by plot.py at 2018-02-27 08:23:40

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 9.02 Mbit/s (7.9% utilization)

95th percentile per-packet one-way delay: 49.959 ms

Loss rate: 0.20%

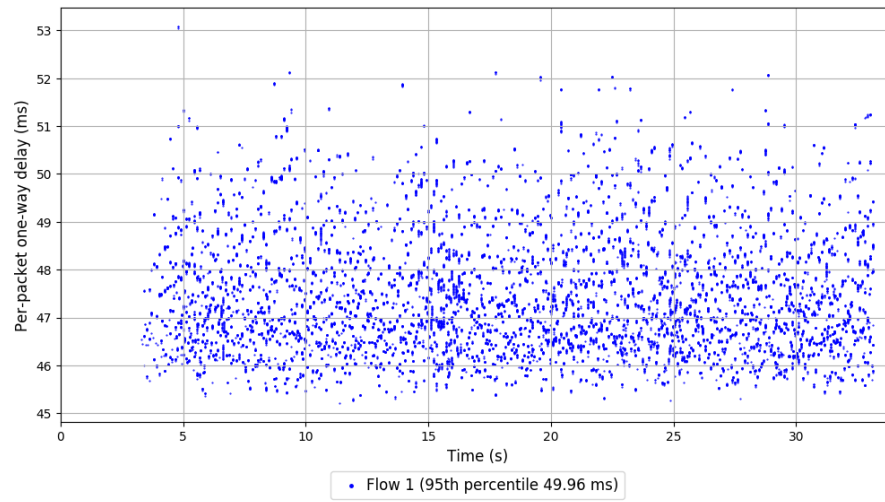
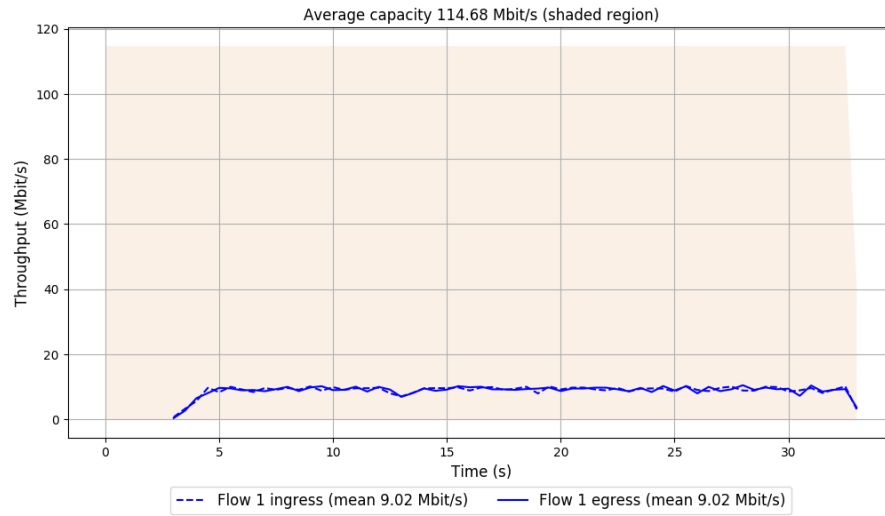
-- Flow 1:

Average throughput: 9.02 Mbit/s

95th percentile per-packet one-way delay: 49.959 ms

Loss rate: 0.20%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-27 07:51:37

End at: 2018-02-27 07:52:07

Below is generated by plot.py at 2018-02-27 08:23:46

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 9.21 Mbit/s (8.0% utilization)

95th percentile per-packet one-way delay: 49.855 ms

Loss rate: 0.06%

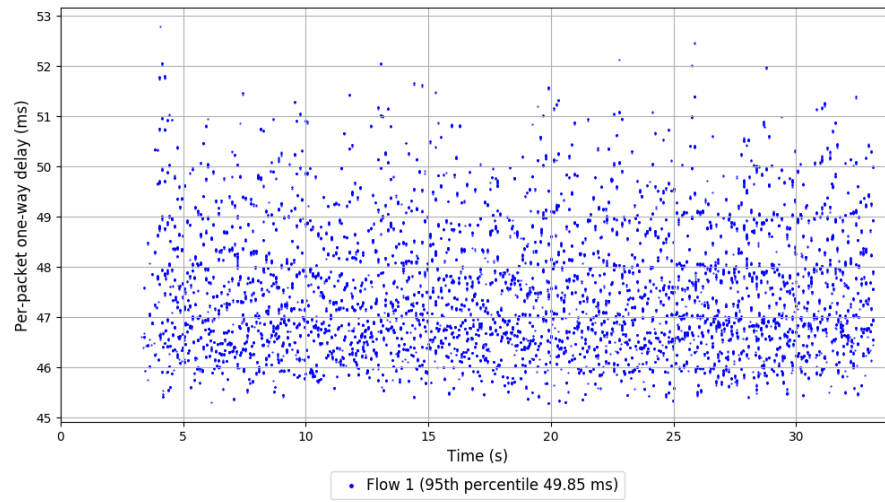
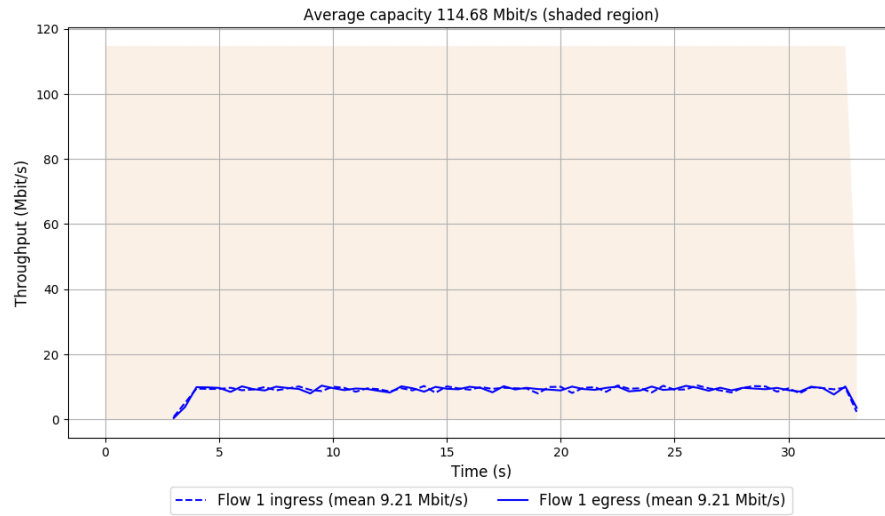
-- Flow 1:

Average throughput: 9.21 Mbit/s

95th percentile per-packet one-way delay: 49.855 ms

Loss rate: 0.06%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-27 08:03:28

End at: 2018-02-27 08:03:58

Below is generated by plot.py at 2018-02-27 08:23:50

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 9.12 Mbit/s (8.0% utilization)

95th percentile per-packet one-way delay: 49.857 ms

Loss rate: 0.00%

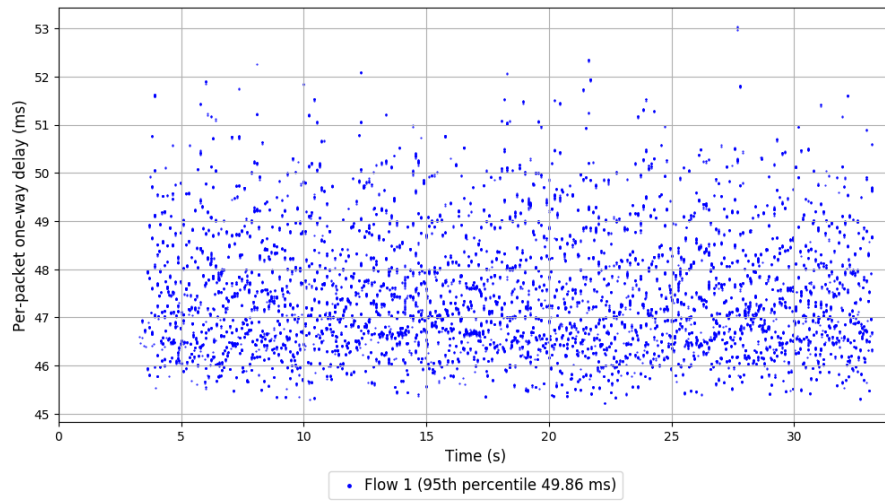
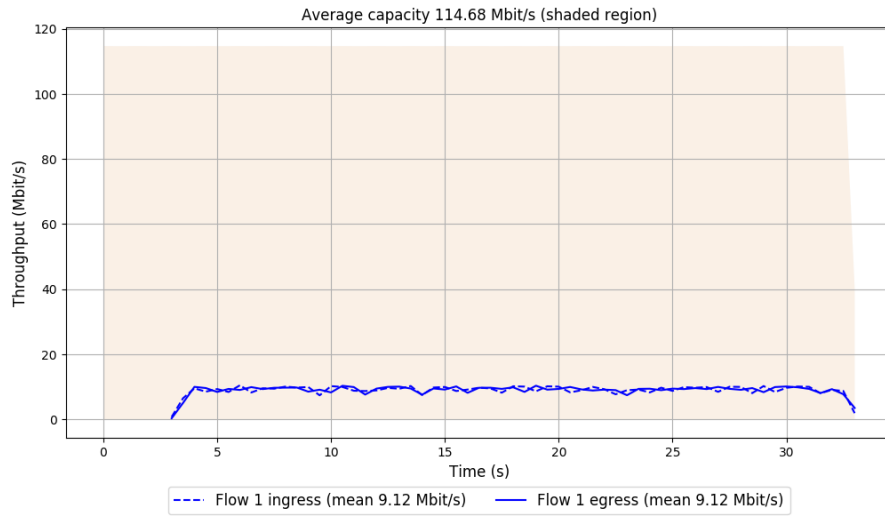
-- Flow 1:

Average throughput: 9.12 Mbit/s

95th percentile per-packet one-way delay: 49.857 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-02-27 06:11:38

End at: 2018-02-27 06:12:08

Below is generated by plot.py at 2018-02-27 08:26:14

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 84.18 Mbit/s (73.4% utilization)

95th percentile per-packet one-way delay: 70.816 ms

Loss rate: 3.01%

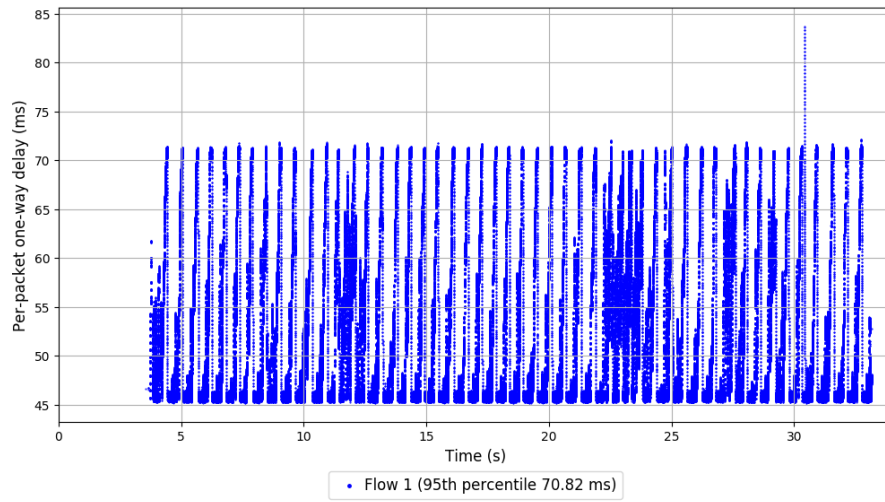
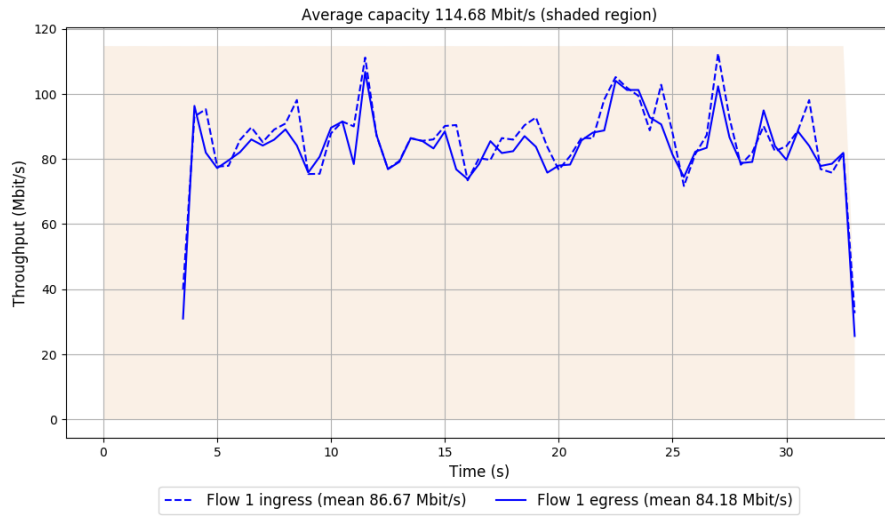
-- Flow 1:

Average throughput: 84.18 Mbit/s

95th percentile per-packet one-way delay: 70.816 ms

Loss rate: 3.01%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-02-27 06:23:28

End at: 2018-02-27 06:23:58

Below is generated by plot.py at 2018-02-27 08:26:35

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 84.49 Mbit/s (73.7% utilization)

95th percentile per-packet one-way delay: 70.806 ms

Loss rate: 3.30%

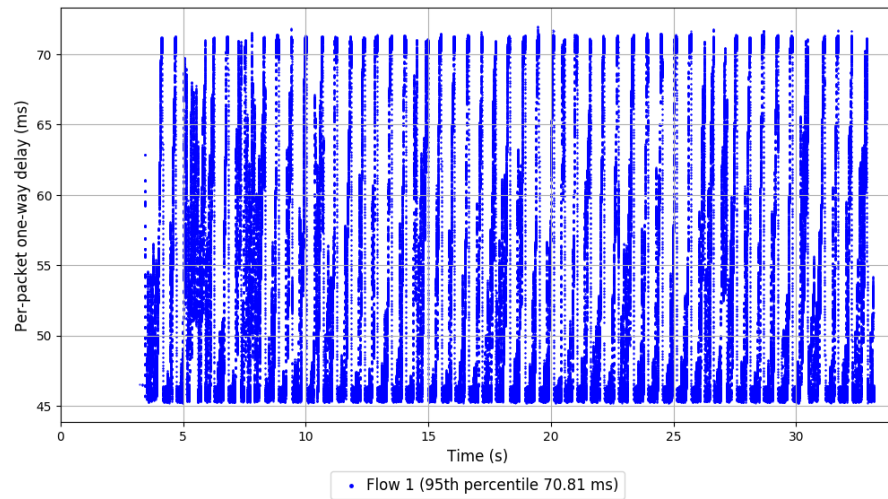
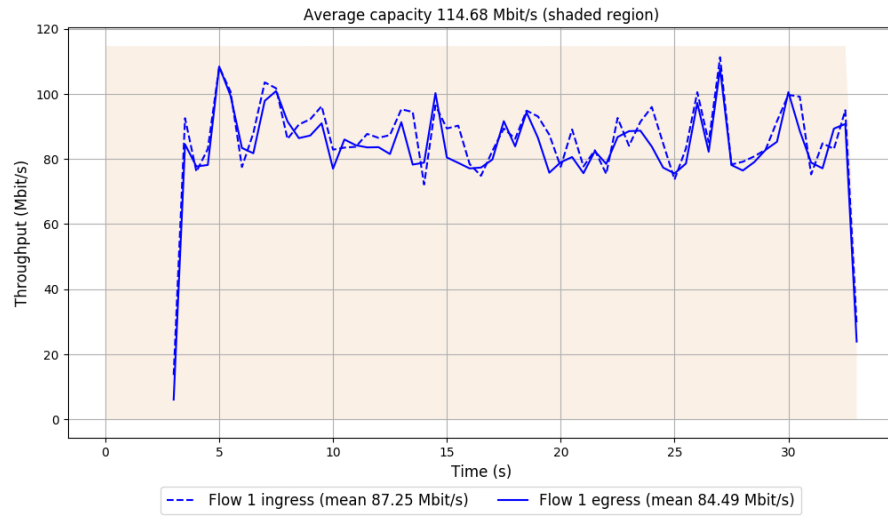
-- Flow 1:

Average throughput: 84.49 Mbit/s

95th percentile per-packet one-way delay: 70.806 ms

Loss rate: 3.30%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-27 06:35:21

End at: 2018-02-27 06:35:51

Below is generated by plot.py at 2018-02-27 08:26:41

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 85.40 Mbit/s (74.5% utilization)

95th percentile per-packet one-way delay: 70.740 ms

Loss rate: 2.71%

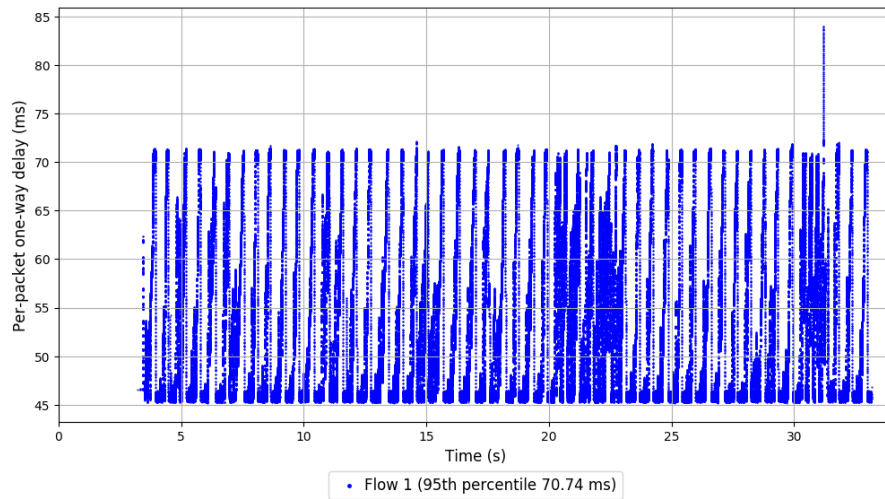
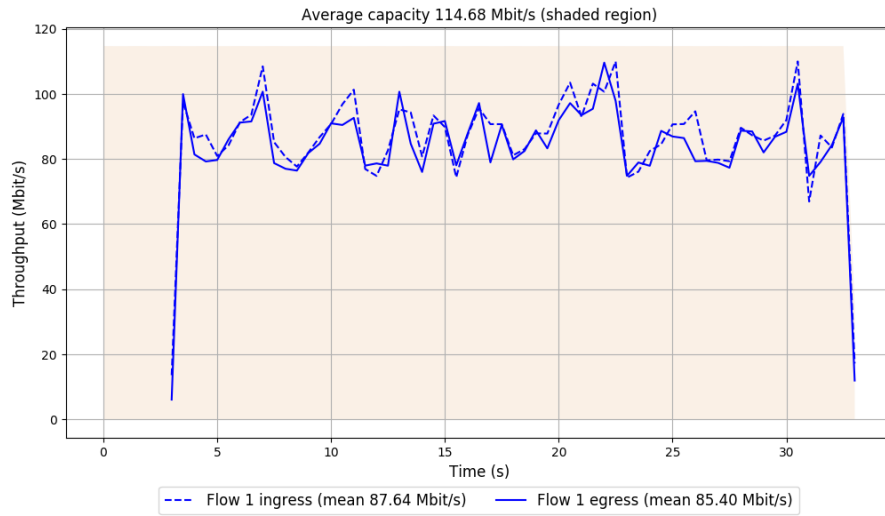
-- Flow 1:

Average throughput: 85.40 Mbit/s

95th percentile per-packet one-way delay: 70.740 ms

Loss rate: 2.71%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-27 06:47:14

End at: 2018-02-27 06:47:44

Below is generated by plot.py at 2018-02-27 08:26:48

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 86.92 Mbit/s (75.8% utilization)

95th percentile per-packet one-way delay: 70.728 ms

Loss rate: 2.65%

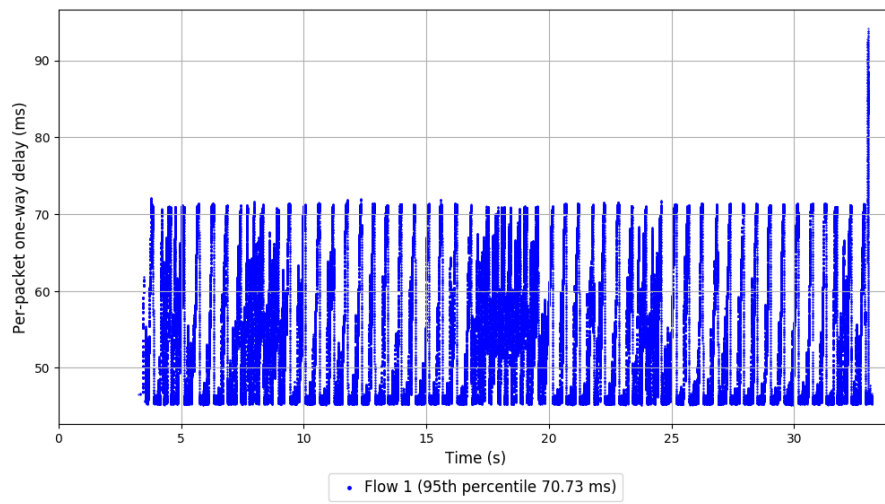
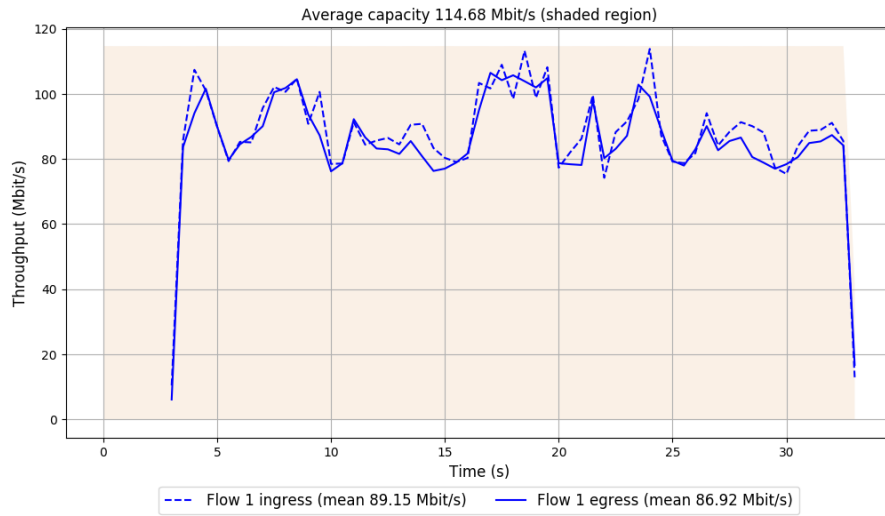
-- Flow 1:

Average throughput: 86.92 Mbit/s

95th percentile per-packet one-way delay: 70.728 ms

Loss rate: 2.65%

Run 4: Report of TaoVA-100x — Data Link



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-27 06:59:04

End at: 2018-02-27 06:59:34

Below is generated by plot.py at 2018-02-27 08:26:48

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 83.41 Mbit/s (72.7% utilization)

95th percentile per-packet one-way delay: 70.815 ms

Loss rate: 3.36%

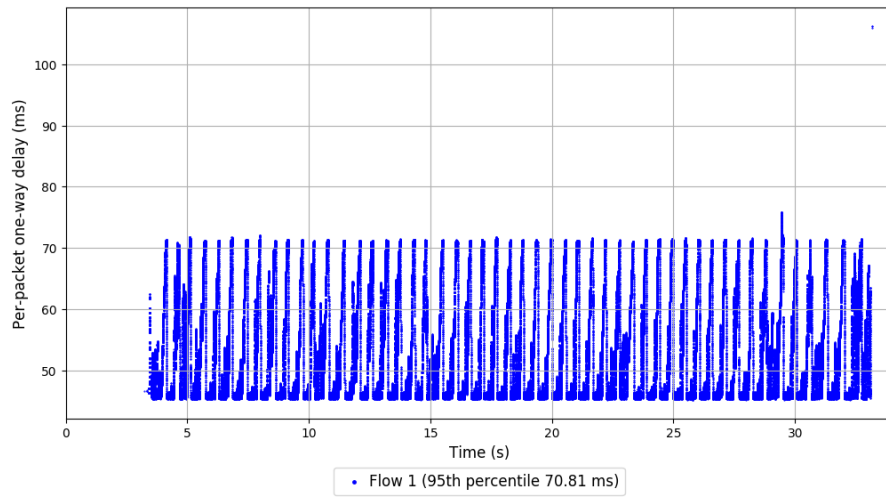
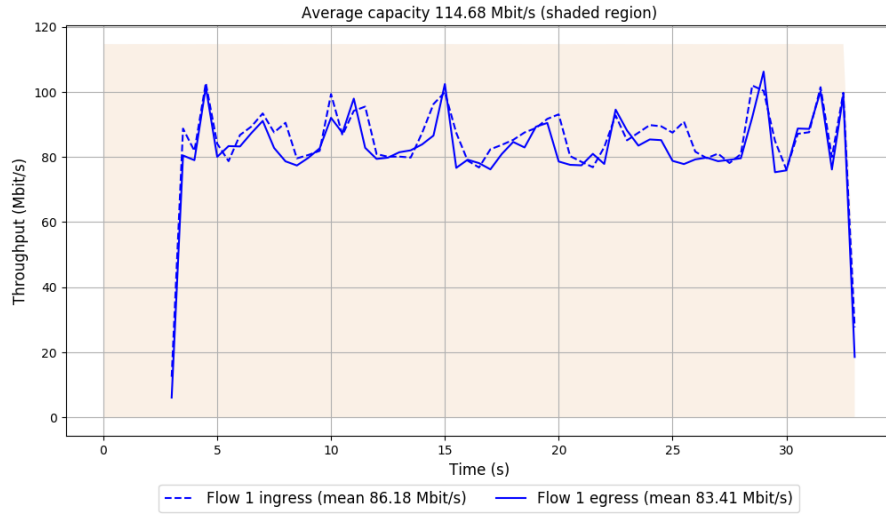
-- Flow 1:

Average throughput: 83.41 Mbit/s

95th percentile per-packet one-way delay: 70.815 ms

Loss rate: 3.36%

Run 5: Report of TaoVA-100x — Data Link



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-27 07:11:00

End at: 2018-02-27 07:11:30

Below is generated by plot.py at 2018-02-27 08:26:54

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 83.57 Mbit/s (72.9% utilization)

95th percentile per-packet one-way delay: 70.824 ms

Loss rate: 3.06%

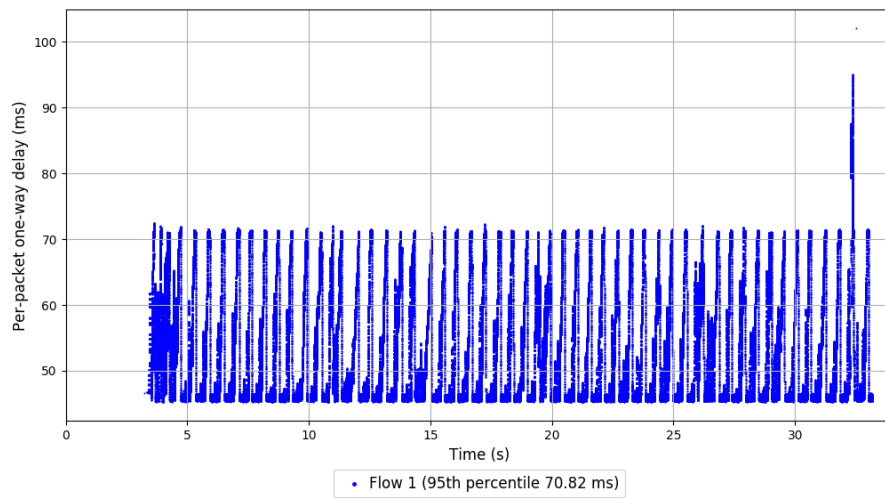
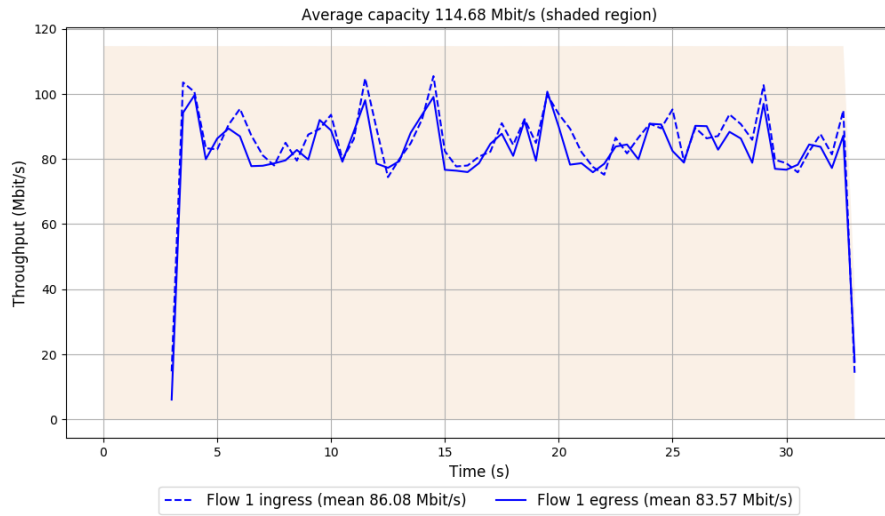
-- Flow 1:

Average throughput: 83.57 Mbit/s

95th percentile per-packet one-way delay: 70.824 ms

Loss rate: 3.06%

Run 6: Report of TaoVA-100x — Data Link



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-27 07:22:53

End at: 2018-02-27 07:23:23

Below is generated by plot.py at 2018-02-27 08:27:00

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 83.71 Mbit/s (73.0% utilization)

95th percentile per-packet one-way delay: 70.820 ms

Loss rate: 3.26%

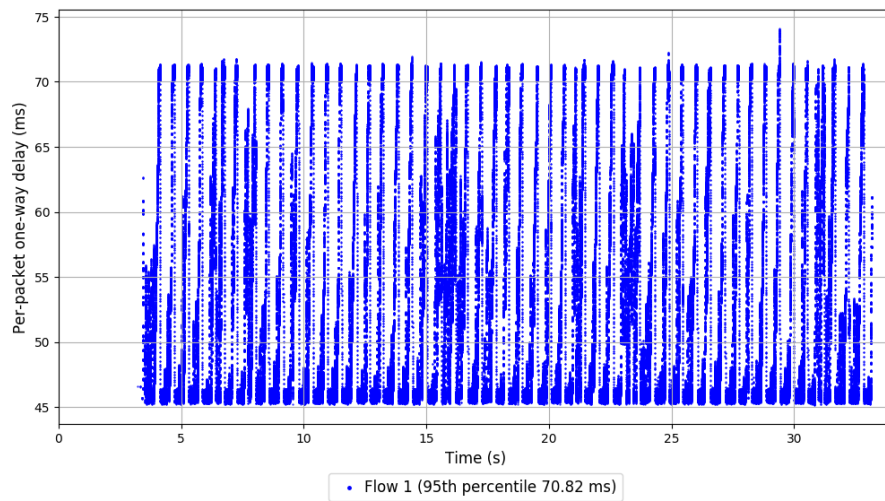
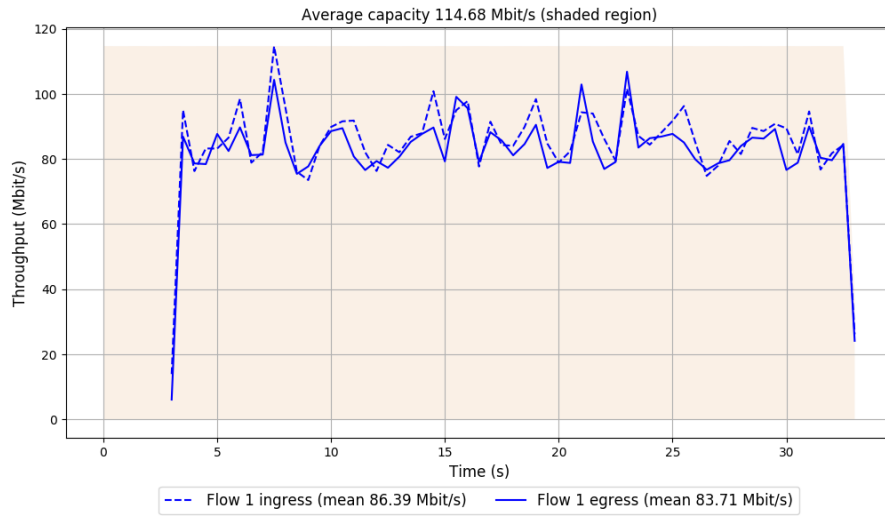
-- Flow 1:

Average throughput: 83.71 Mbit/s

95th percentile per-packet one-way delay: 70.820 ms

Loss rate: 3.26%

Run 7: Report of TaoVA-100x — Data Link



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-27 07:35:06

End at: 2018-02-27 07:35:36

Below is generated by plot.py at 2018-02-27 08:27:04

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 83.22 Mbit/s (72.6% utilization)

95th percentile per-packet one-way delay: 70.798 ms

Loss rate: 3.71%

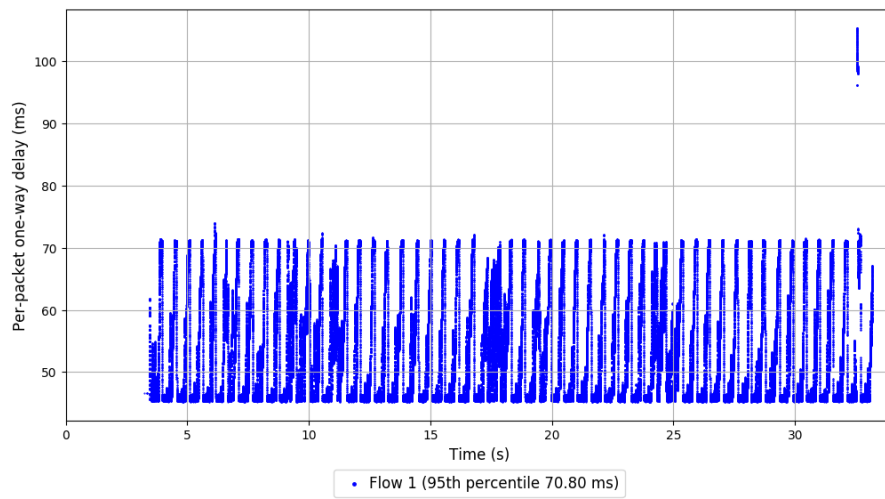
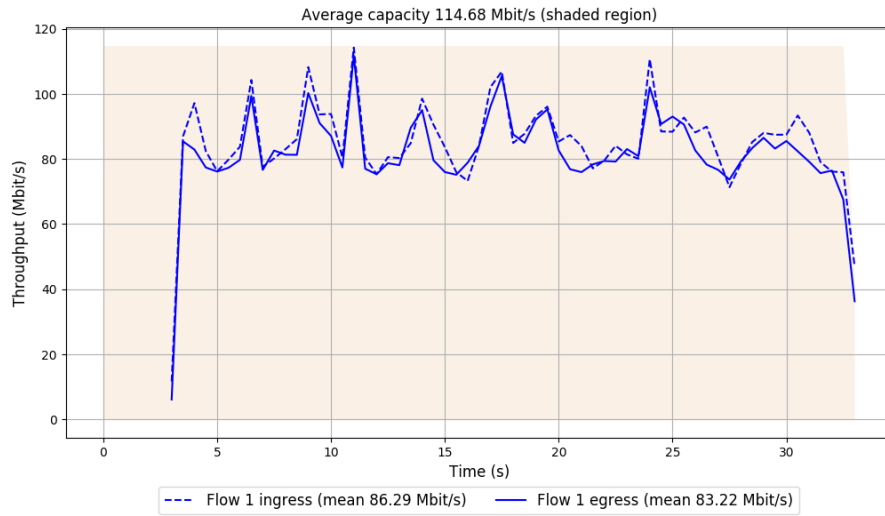
-- Flow 1:

Average throughput: 83.22 Mbit/s

95th percentile per-packet one-way delay: 70.798 ms

Loss rate: 3.71%

Run 8: Report of TaoVA-100x — Data Link



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-27 07:46:59

End at: 2018-02-27 07:47:29

Below is generated by plot.py at 2018-02-27 08:29:26

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 84.95 Mbit/s (74.1% utilization)

95th percentile per-packet one-way delay: 70.804 ms

Loss rate: 2.91%

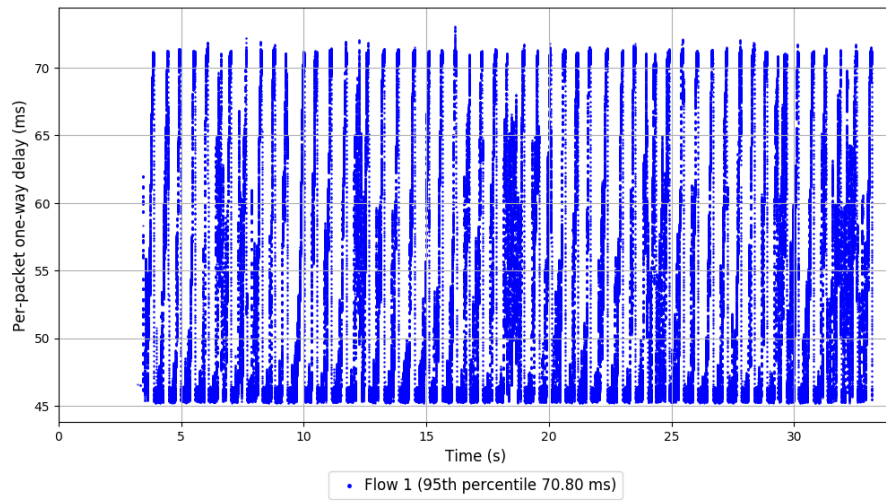
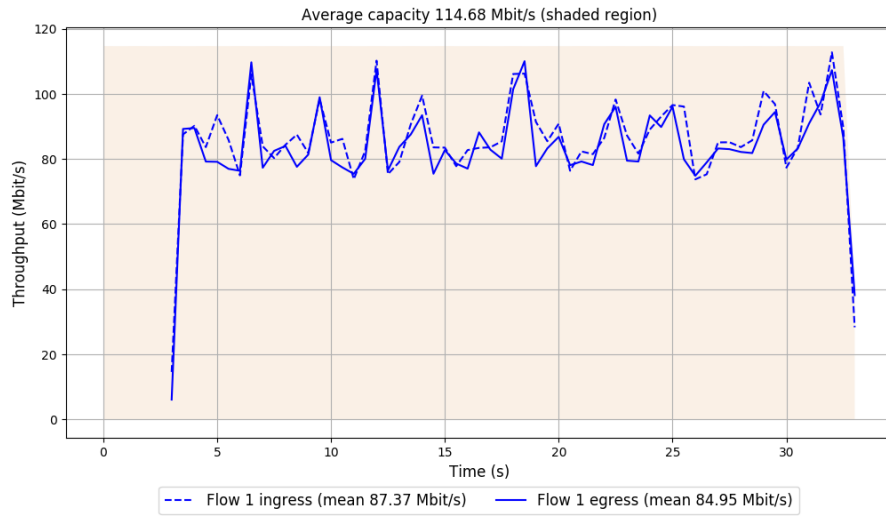
-- Flow 1:

Average throughput: 84.95 Mbit/s

95th percentile per-packet one-way delay: 70.804 ms

Loss rate: 2.91%

Run 9: Report of TaoVA-100x — Data Link



Run 10: Statistics of TaoVA-100x

Start at: 2018-02-27 07:58:50

End at: 2018-02-27 07:59:20

Below is generated by plot.py at 2018-02-27 08:29:32

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 84.47 Mbit/s (73.7% utilization)

95th percentile per-packet one-way delay: 70.778 ms

Loss rate: 3.02%

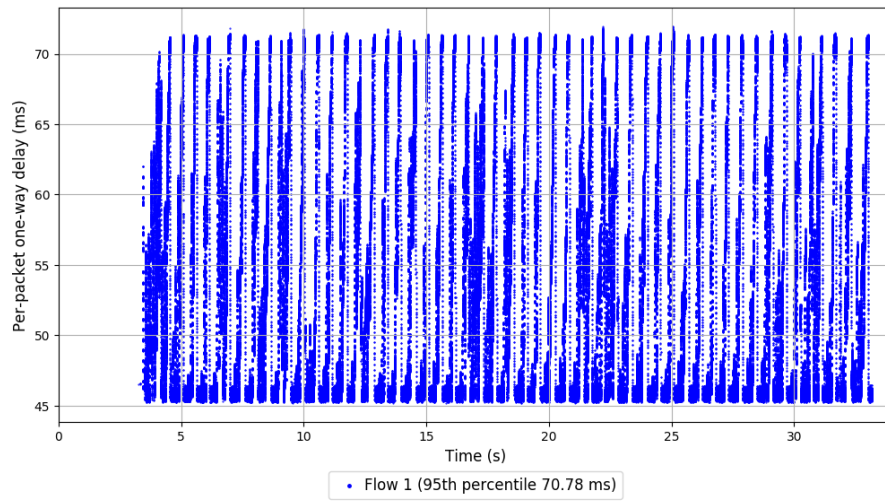
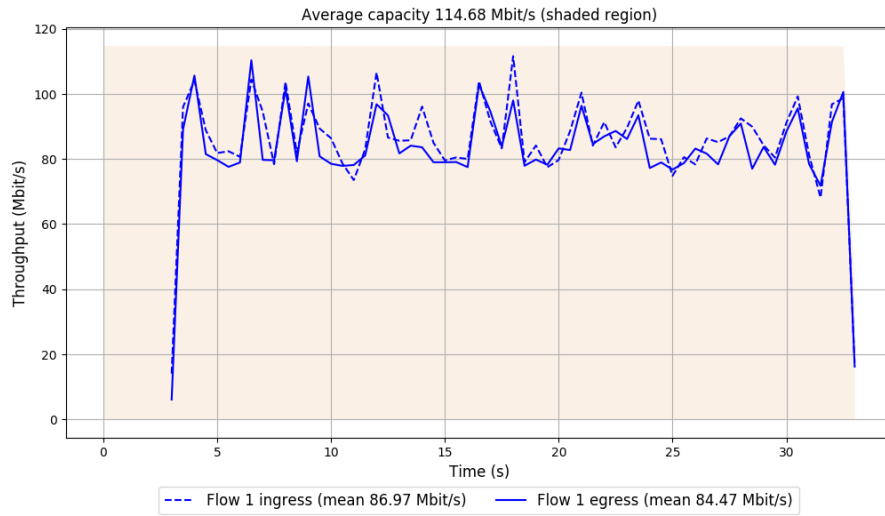
-- Flow 1:

Average throughput: 84.47 Mbit/s

95th percentile per-packet one-way delay: 70.778 ms

Loss rate: 3.02%

Run 10: Report of TaoVA-100x — Data Link



Run 1: Statistics of TCP Vegas

Start at: 2018-02-27 06:07:07

End at: 2018-02-27 06:07:37

Below is generated by plot.py at 2018-02-27 08:29:32

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 109.65 Mbit/s (95.6% utilization)

95th percentile per-packet one-way delay: 62.263 ms

Loss rate: 0.38%

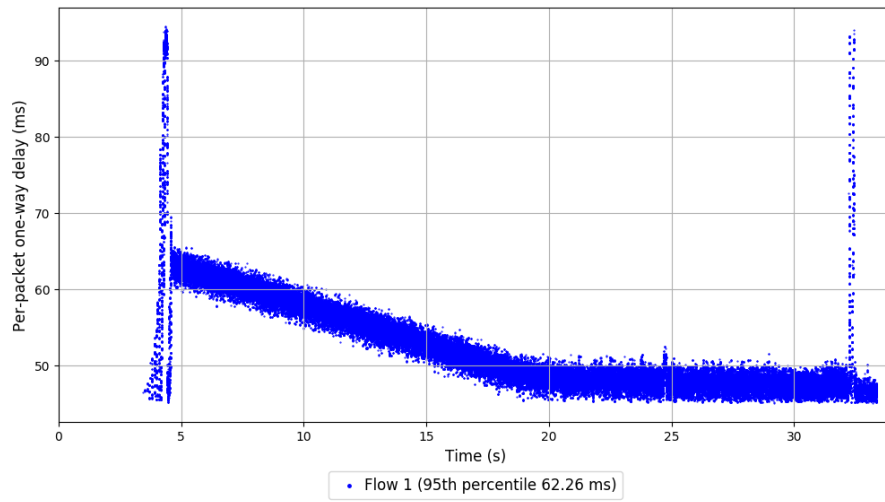
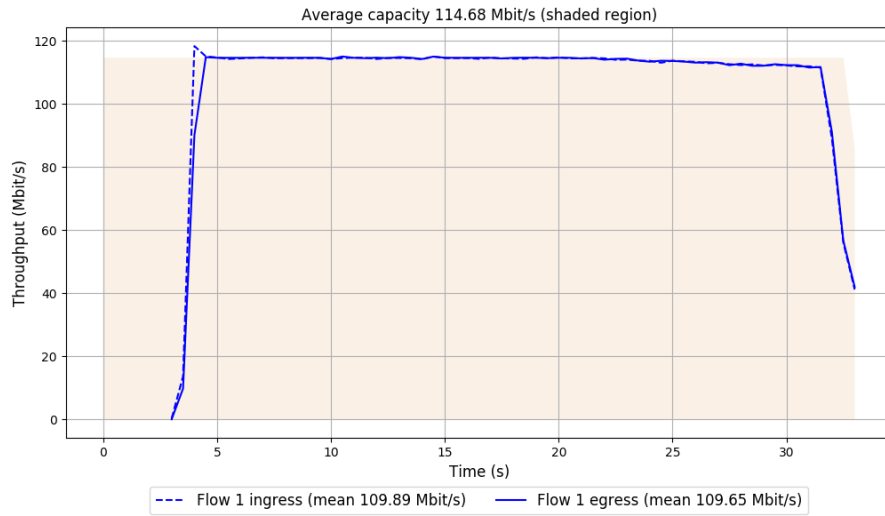
-- Flow 1:

Average throughput: 109.65 Mbit/s

95th percentile per-packet one-way delay: 62.263 ms

Loss rate: 0.38%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-27 06:18:54

End at: 2018-02-27 06:19:24

Below is generated by plot.py at 2018-02-27 08:29:32

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 85.55 Mbit/s (74.6% utilization)

95th percentile per-packet one-way delay: 48.477 ms

Loss rate: 0.18%

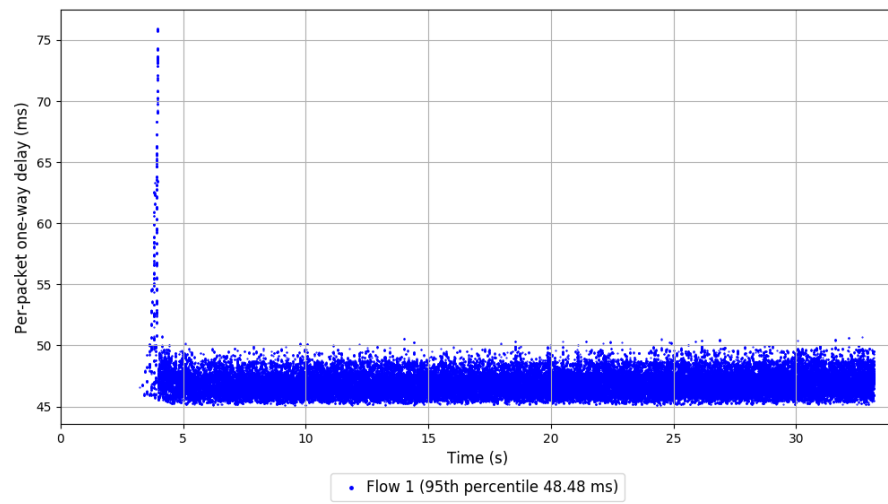
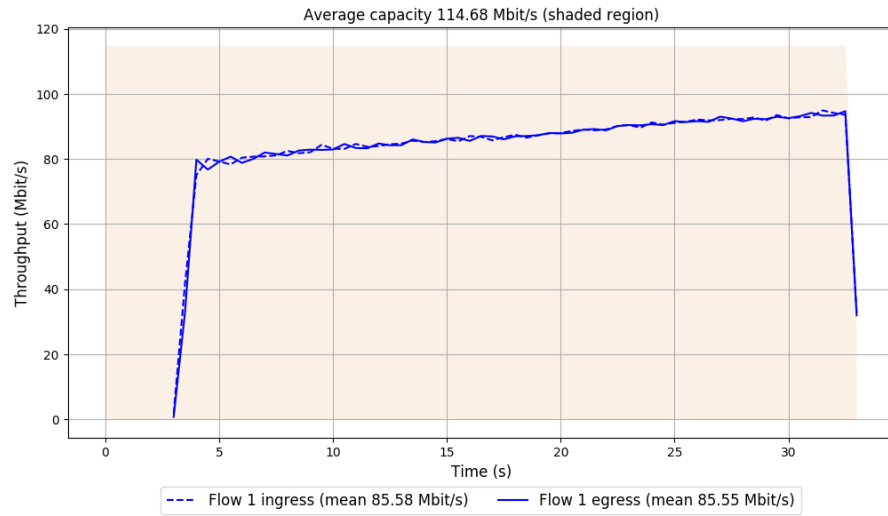
-- Flow 1:

Average throughput: 85.55 Mbit/s

95th percentile per-packet one-way delay: 48.477 ms

Loss rate: 0.18%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-27 06:30:45

End at: 2018-02-27 06:31:15

Below is generated by plot.py at 2018-02-27 08:29:32

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 88.62 Mbit/s (77.3% utilization)

95th percentile per-packet one-way delay: 48.744 ms

Loss rate: 0.24%

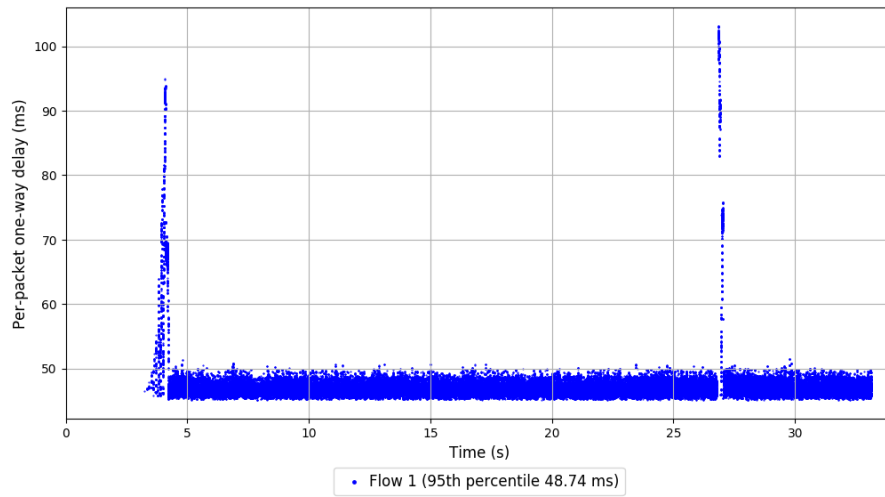
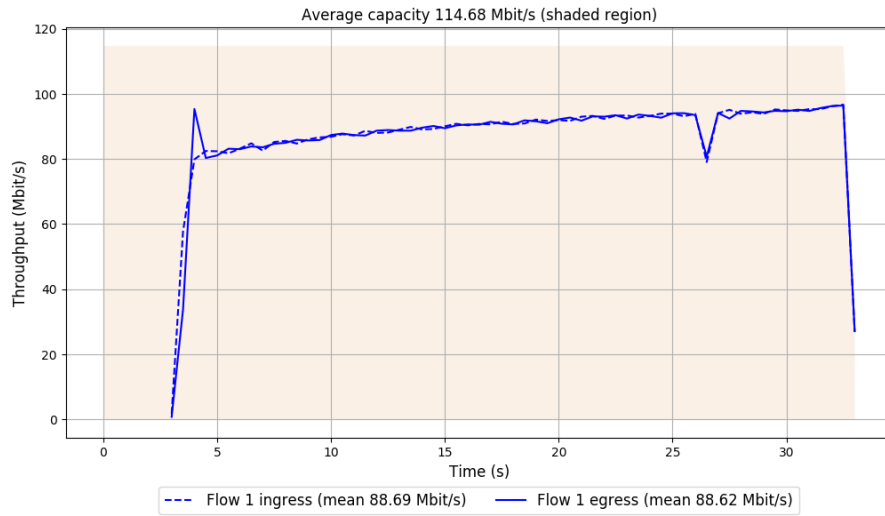
-- Flow 1:

Average throughput: 88.62 Mbit/s

95th percentile per-packet one-way delay: 48.744 ms

Loss rate: 0.24%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-27 06:42:37

End at: 2018-02-27 06:43:07

Below is generated by plot.py at 2018-02-27 08:29:32

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 90.00 Mbit/s (78.5% utilization)

95th percentile per-packet one-way delay: 48.618 ms

Loss rate: 0.16%

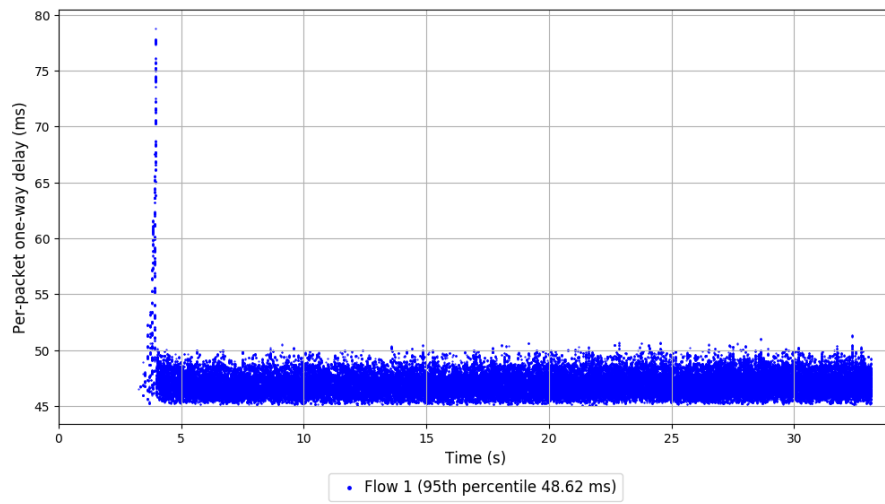
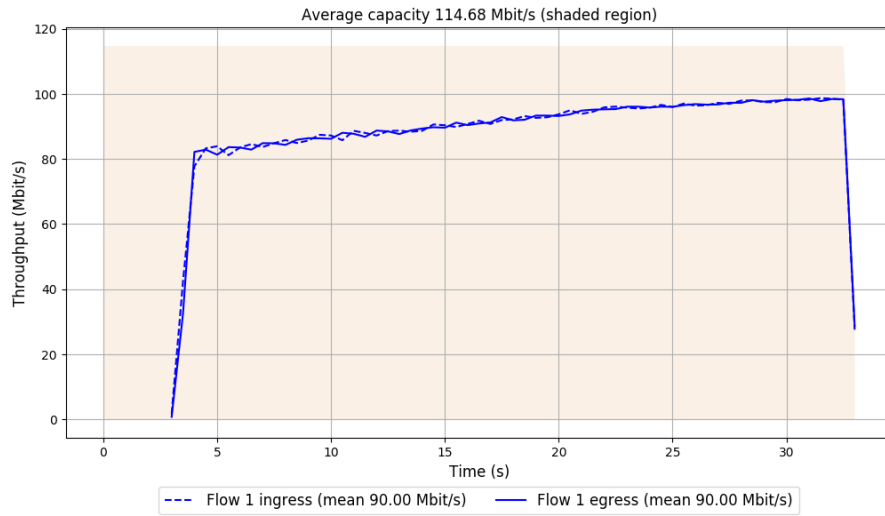
-- Flow 1:

Average throughput: 90.00 Mbit/s

95th percentile per-packet one-way delay: 48.618 ms

Loss rate: 0.16%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-27 06:54:28

End at: 2018-02-27 06:54:58

Below is generated by plot.py at 2018-02-27 08:29:32

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 89.12 Mbit/s (77.7% utilization)

95th percentile per-packet one-way delay: 48.562 ms

Loss rate: 0.16%

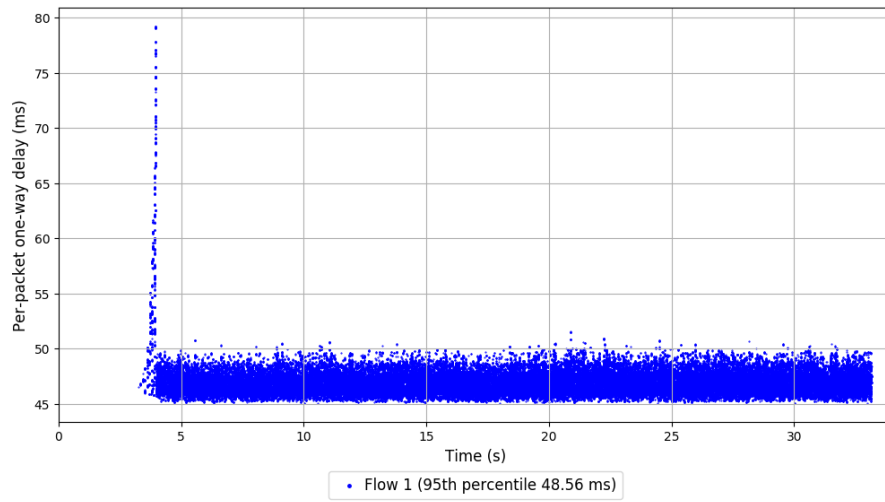
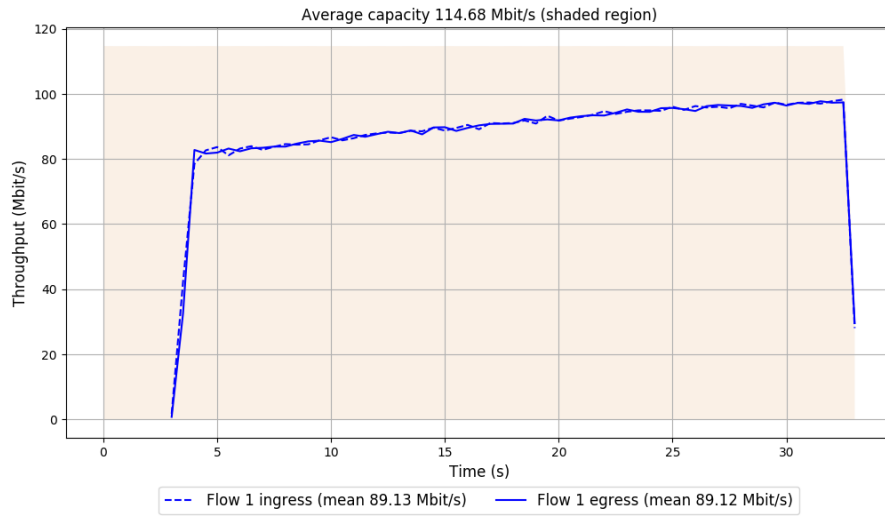
-- Flow 1:

Average throughput: 89.12 Mbit/s

95th percentile per-packet one-way delay: 48.562 ms

Loss rate: 0.16%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-27 07:06:24

End at: 2018-02-27 07:06:54

Below is generated by plot.py at 2018-02-27 08:29:32

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 88.79 Mbit/s (77.4% utilization)

95th percentile per-packet one-way delay: 48.664 ms

Loss rate: 0.26%

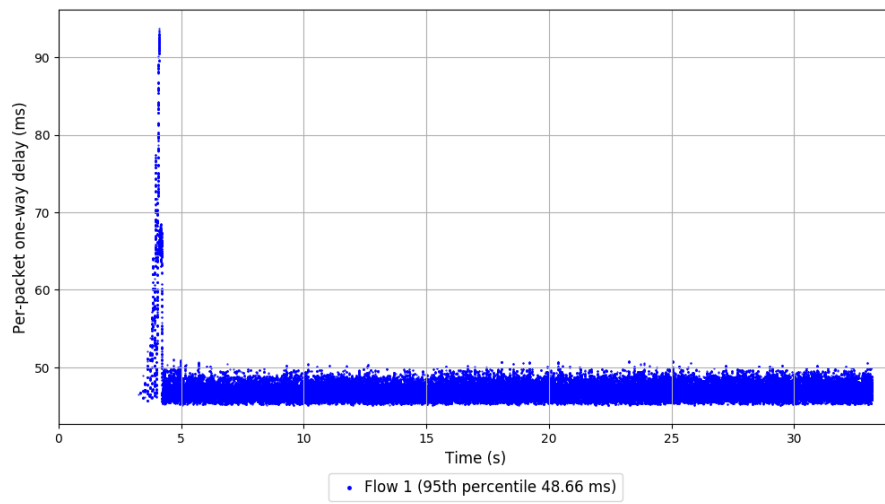
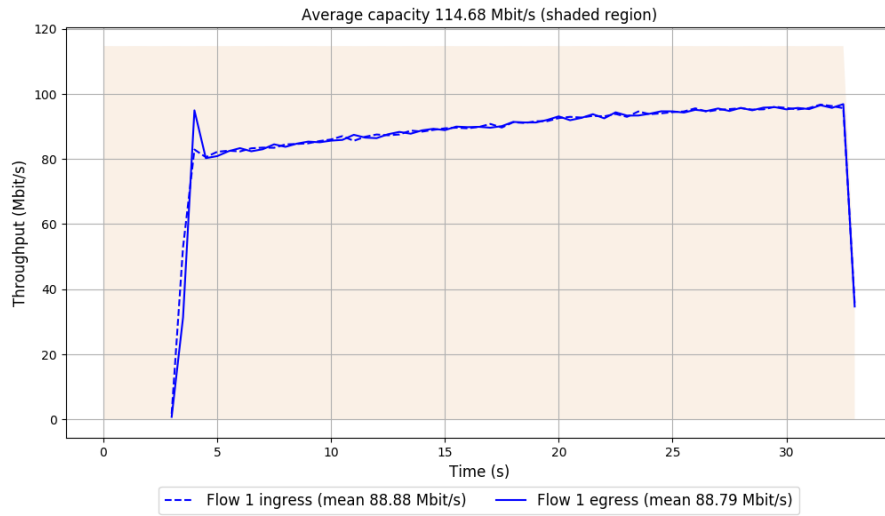
-- Flow 1:

Average throughput: 88.79 Mbit/s

95th percentile per-packet one-way delay: 48.664 ms

Loss rate: 0.26%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-27 07:18:17

End at: 2018-02-27 07:18:47

Below is generated by plot.py at 2018-02-27 08:31:07

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 112.01 Mbit/s (97.7% utilization)

95th percentile per-packet one-way delay: 65.228 ms

Loss rate: 0.41%

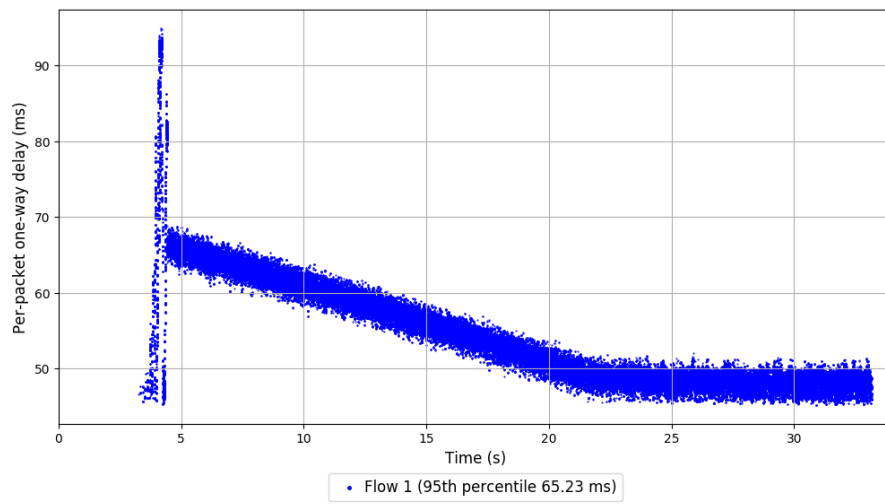
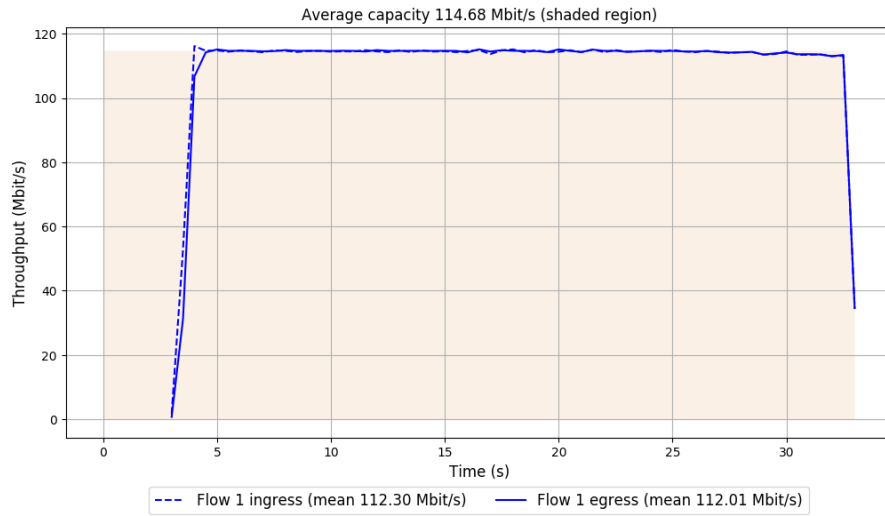
-- Flow 1:

Average throughput: 112.01 Mbit/s

95th percentile per-packet one-way delay: 65.228 ms

Loss rate: 0.41%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-27 07:30:29

End at: 2018-02-27 07:30:59

Below is generated by plot.py at 2018-02-27 08:31:19

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 111.00 Mbit/s (96.8% utilization)

95th percentile per-packet one-way delay: 66.429 ms

Loss rate: 0.41%

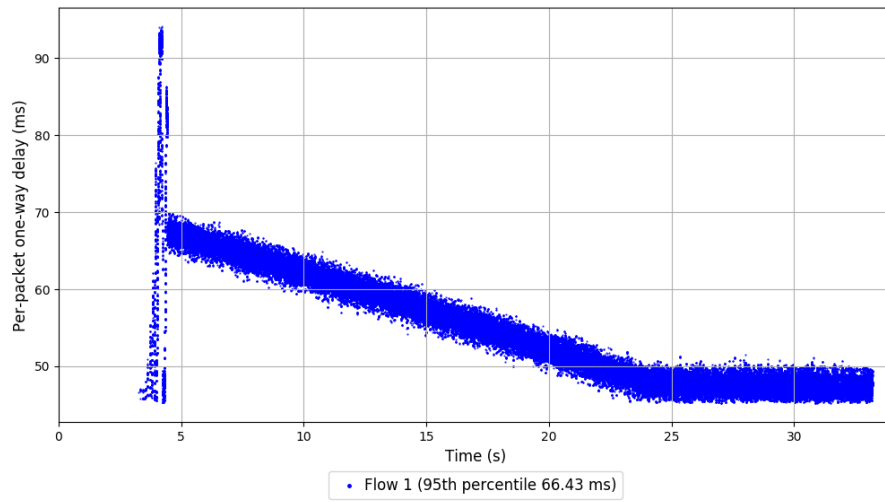
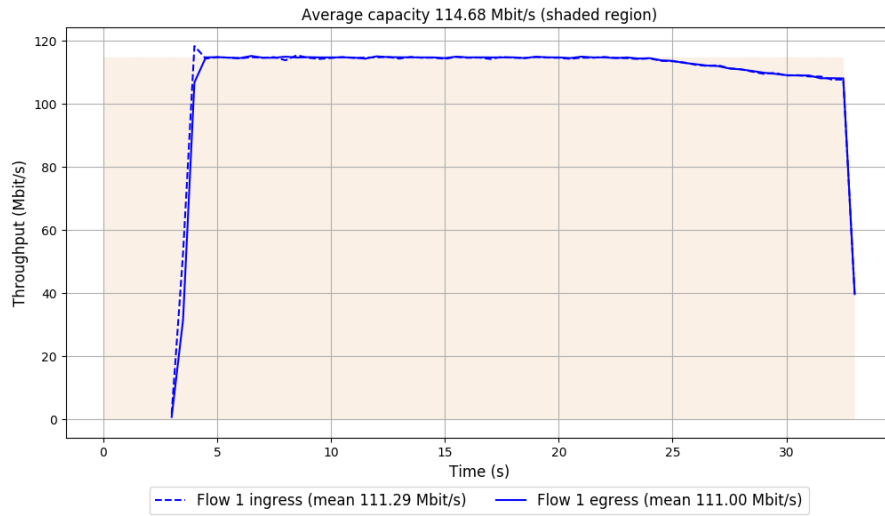
-- Flow 1:

Average throughput: 111.00 Mbit/s

95th percentile per-packet one-way delay: 66.429 ms

Loss rate: 0.41%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-27 07:42:22

End at: 2018-02-27 07:42:52

Below is generated by plot.py at 2018-02-27 08:31:23

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 107.18 Mbit/s (93.5% utilization)

95th percentile per-packet one-way delay: 67.511 ms

Loss rate: 0.44%

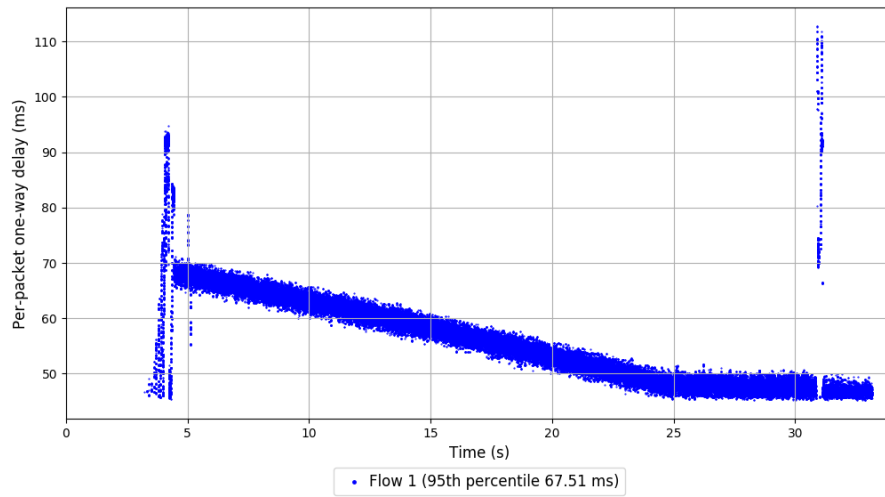
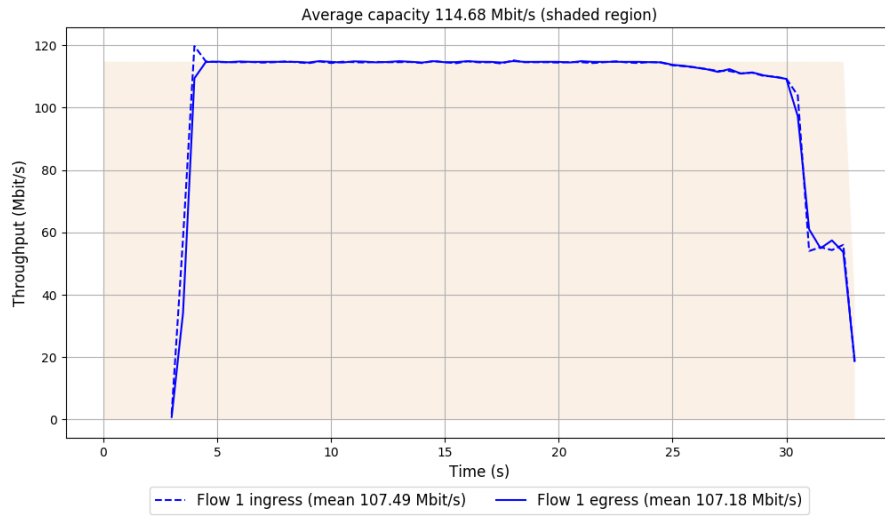
-- Flow 1:

Average throughput: 107.18 Mbit/s

95th percentile per-packet one-way delay: 67.511 ms

Loss rate: 0.44%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-27 07:54:15

End at: 2018-02-27 07:54:45

Below is generated by plot.py at 2018-02-27 08:31:23

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 89.60 Mbit/s (78.1% utilization)

95th percentile per-packet one-way delay: 48.774 ms

Loss rate: 0.24%

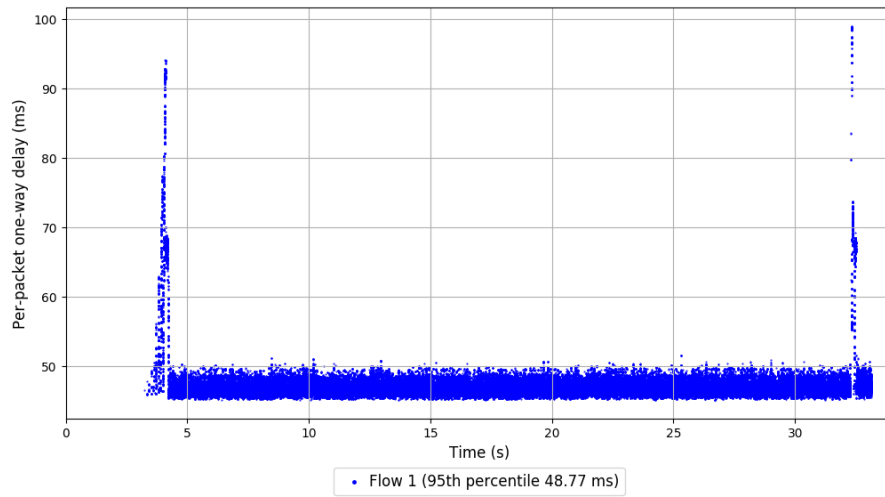
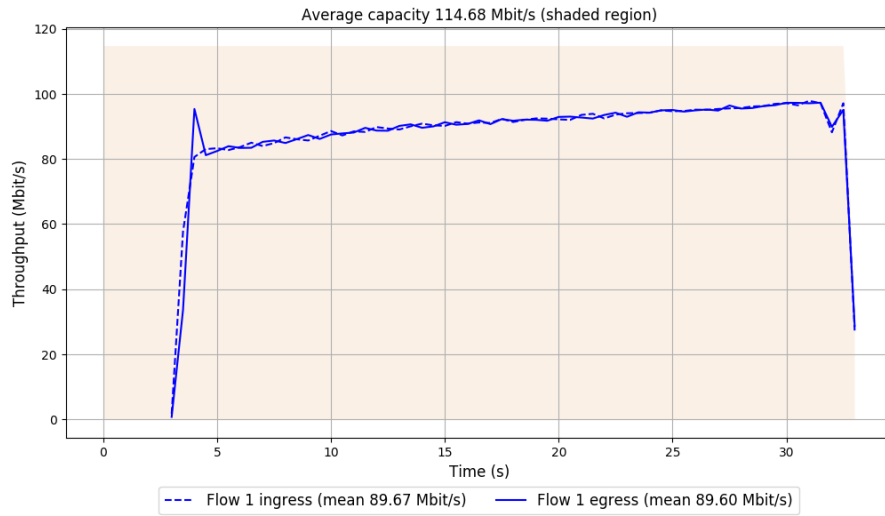
-- Flow 1:

Average throughput: 89.60 Mbit/s

95th percentile per-packet one-way delay: 48.774 ms

Loss rate: 0.24%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-27 06:15:01

End at: 2018-02-27 06:15:31

Below is generated by plot.py at 2018-02-27 08:31:23

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 74.90 Mbit/s (65.3% utilization)

95th percentile per-packet one-way delay: 92.028 ms

Loss rate: 28.83%

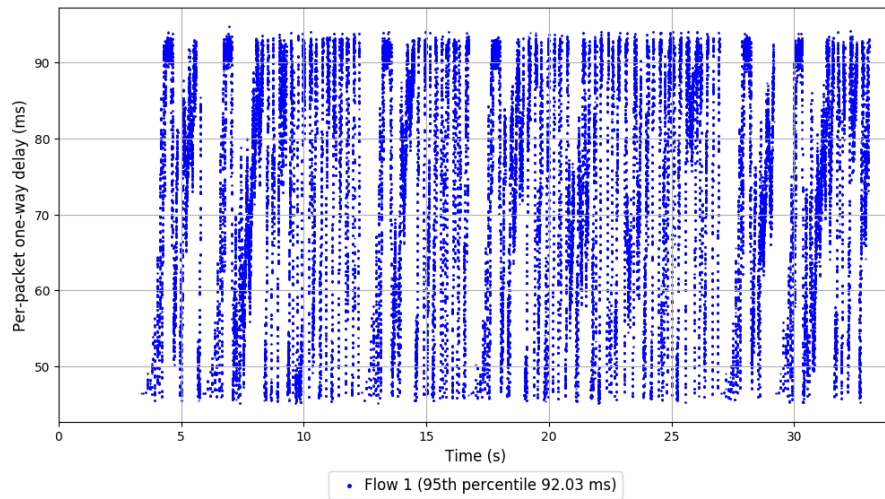
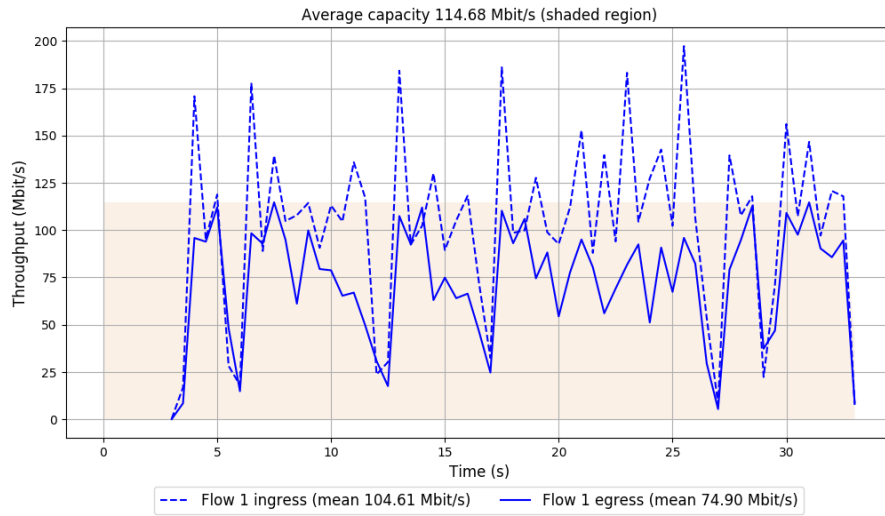
-- Flow 1:

Average throughput: 74.90 Mbit/s

95th percentile per-packet one-way delay: 92.028 ms

Loss rate: 28.83%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-27 06:26:52

End at: 2018-02-27 06:27:22

Below is generated by plot.py at 2018-02-27 08:31:23

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 73.99 Mbit/s (64.5% utilization)

95th percentile per-packet one-way delay: 92.108 ms

Loss rate: 30.49%

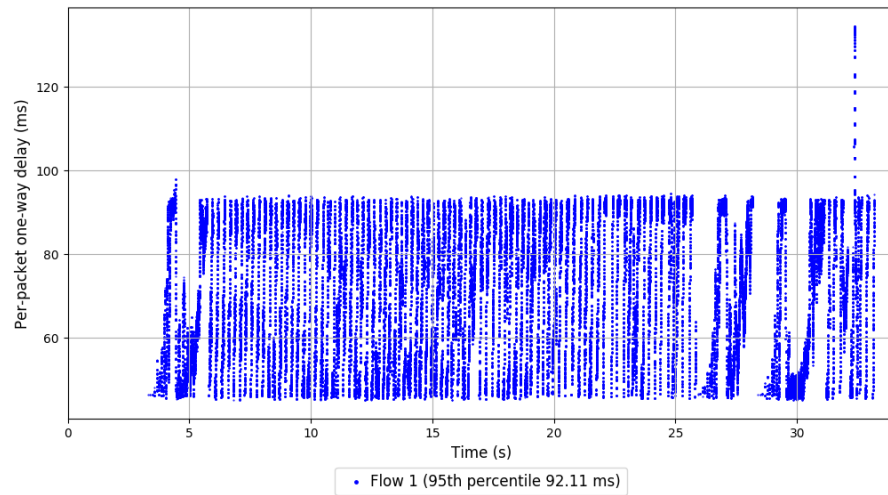
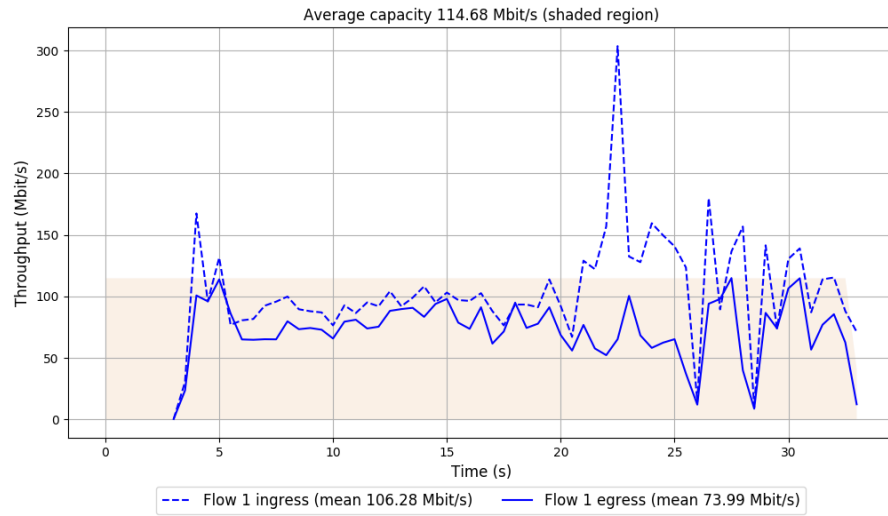
-- Flow 1:

Average throughput: 73.99 Mbit/s

95th percentile per-packet one-way delay: 92.108 ms

Loss rate: 30.49%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-27 06:38:44

End at: 2018-02-27 06:39:14

Below is generated by plot.py at 2018-02-27 08:31:27

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 72.10 Mbit/s (62.9% utilization)

95th percentile per-packet one-way delay: 92.094 ms

Loss rate: 29.55%

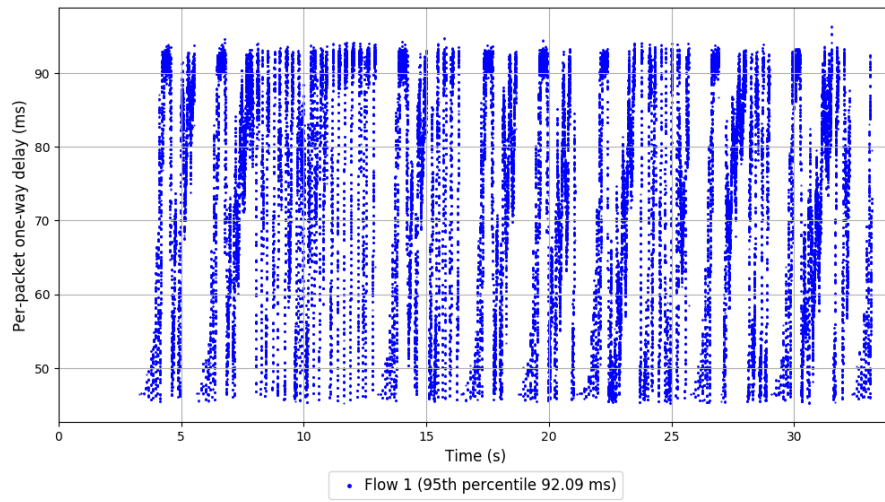
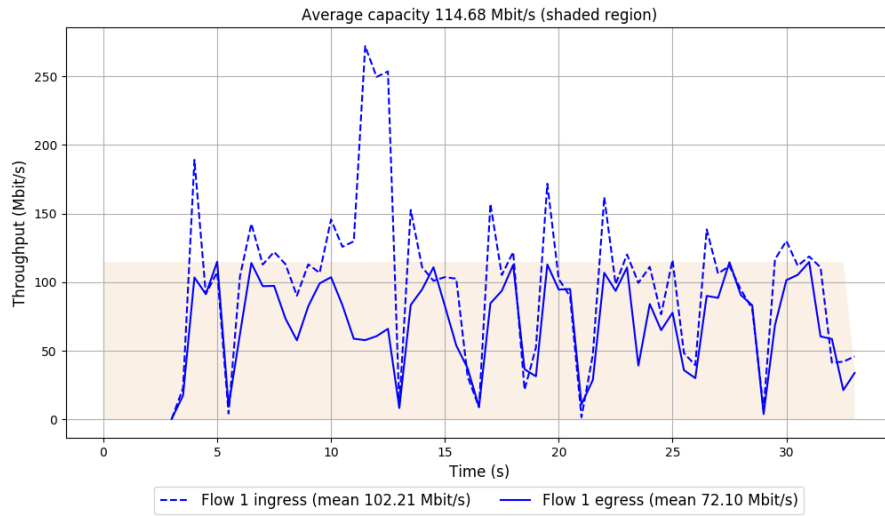
-- Flow 1:

Average throughput: 72.10 Mbit/s

95th percentile per-packet one-way delay: 92.094 ms

Loss rate: 29.55%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-27 06:50:37

End at: 2018-02-27 06:51:07

Below is generated by plot.py at 2018-02-27 08:31:35

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 78.95 Mbit/s (68.8% utilization)

95th percentile per-packet one-way delay: 91.759 ms

Loss rate: 16.02%

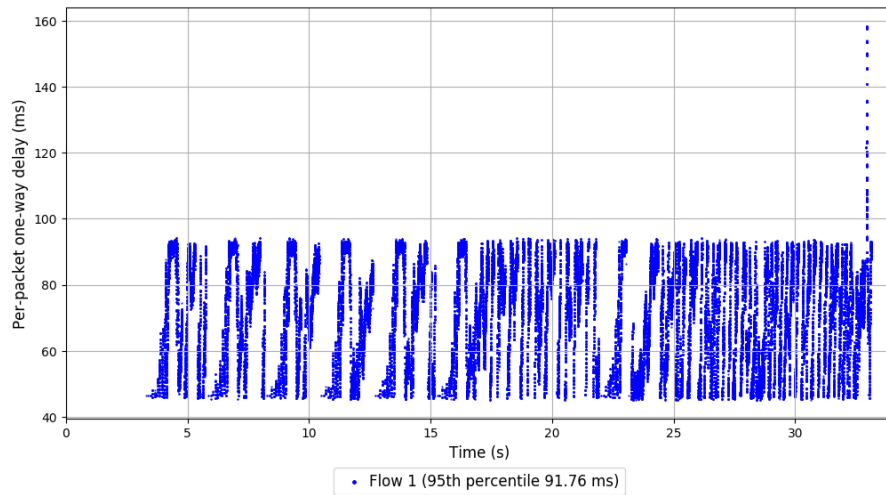
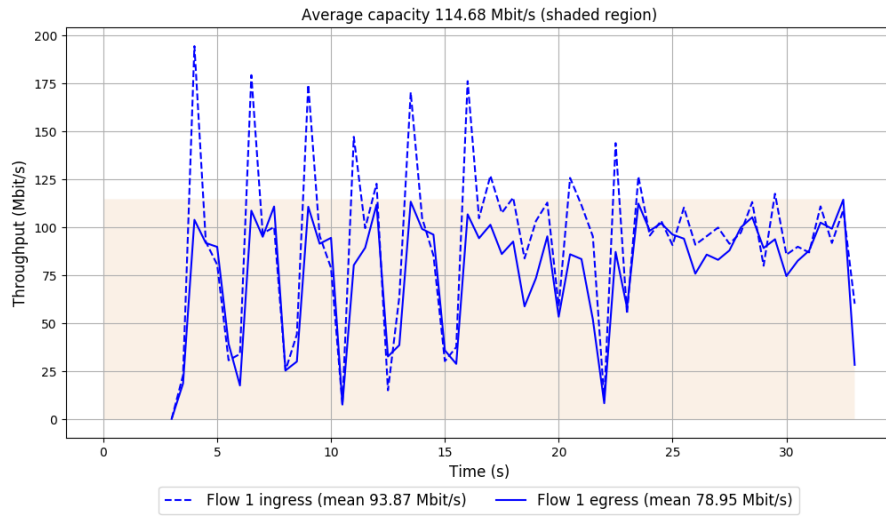
-- Flow 1:

Average throughput: 78.95 Mbit/s

95th percentile per-packet one-way delay: 91.759 ms

Loss rate: 16.02%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-27 07:02:28

End at: 2018-02-27 07:02:58

Below is generated by plot.py at 2018-02-27 08:33:54

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 63.95 Mbit/s (55.8% utilization)

95th percentile per-packet one-way delay: 93.033 ms

Loss rate: 81.27%

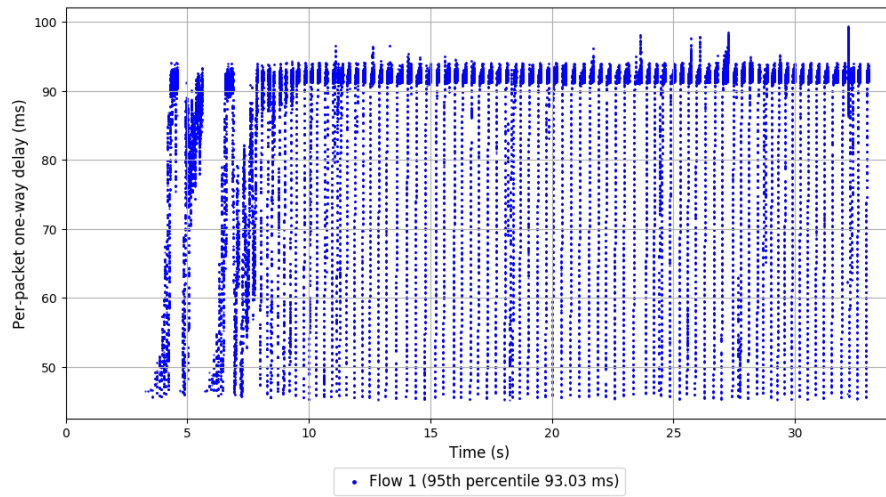
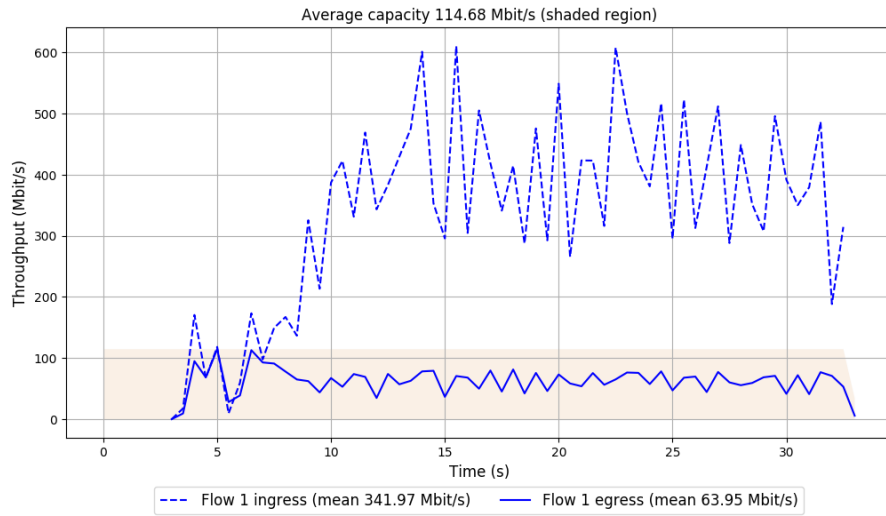
-- Flow 1:

Average throughput: 63.95 Mbit/s

95th percentile per-packet one-way delay: 93.033 ms

Loss rate: 81.27%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-27 07:14:23

End at: 2018-02-27 07:14:53

Below is generated by plot.py at 2018-02-27 08:33:54

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 68.47 Mbit/s (59.7% utilization)

95th percentile per-packet one-way delay: 92.766 ms

Loss rate: 64.93%

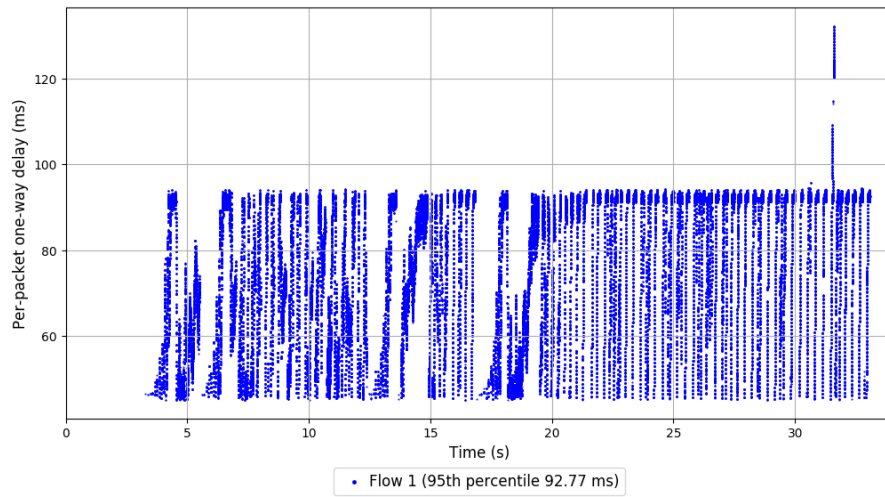
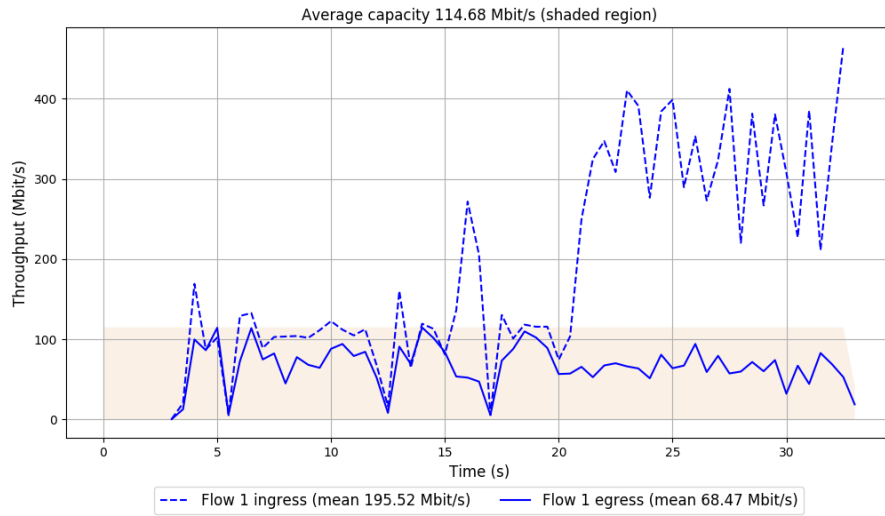
-- Flow 1:

Average throughput: 68.47 Mbit/s

95th percentile per-packet one-way delay: 92.766 ms

Loss rate: 64.93%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-27 07:26:16

End at: 2018-02-27 07:26:46

Below is generated by plot.py at 2018-02-27 08:33:54

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 66.05 Mbit/s (57.6% utilization)

95th percentile per-packet one-way delay: 92.854 ms

Loss rate: 69.08%

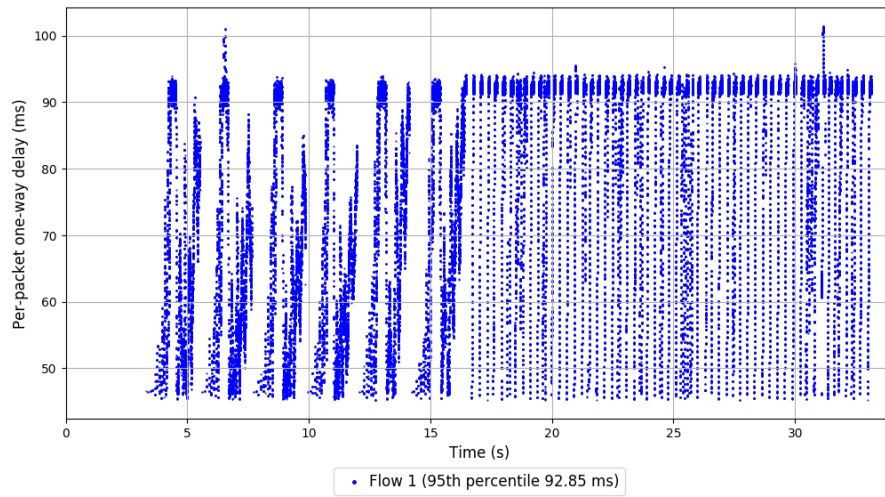
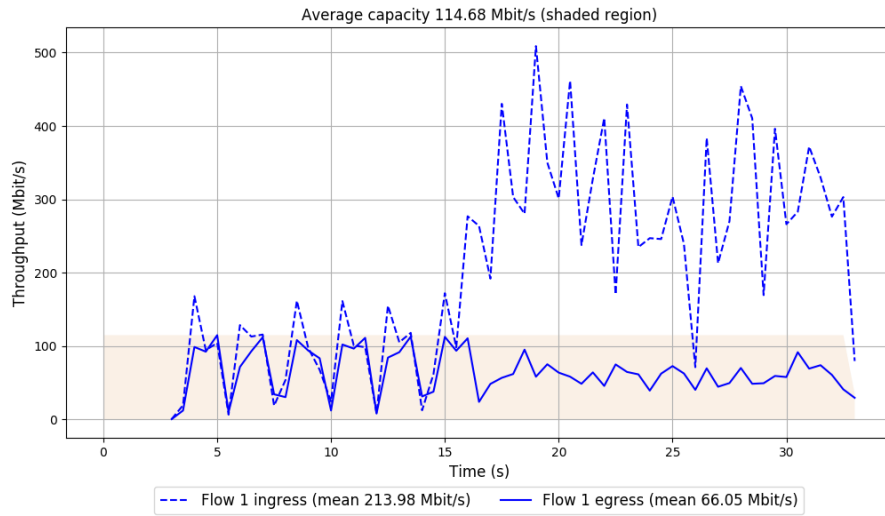
-- Flow 1:

Average throughput: 66.05 Mbit/s

95th percentile per-packet one-way delay: 92.854 ms

Loss rate: 69.08%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-27 07:38:28

End at: 2018-02-27 07:38:58

Below is generated by plot.py at 2018-02-27 08:33:54

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 79.34 Mbit/s (69.2% utilization)

95th percentile per-packet one-way delay: 91.790 ms

Loss rate: 18.81%

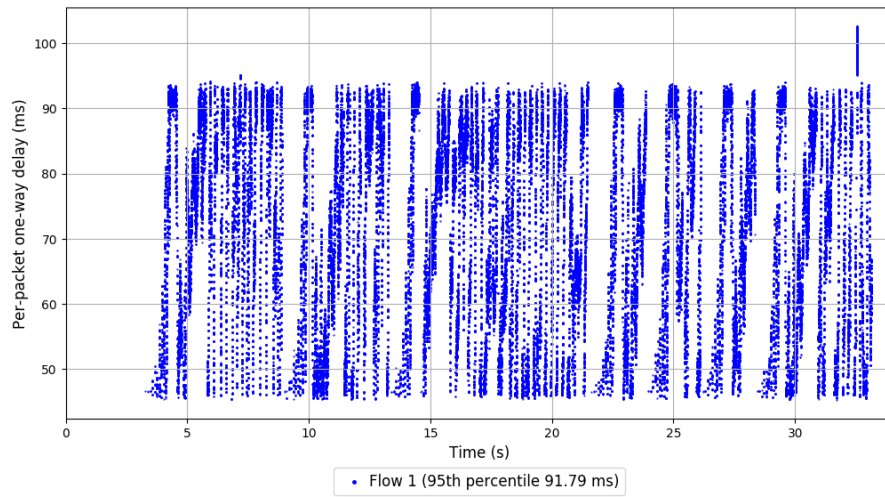
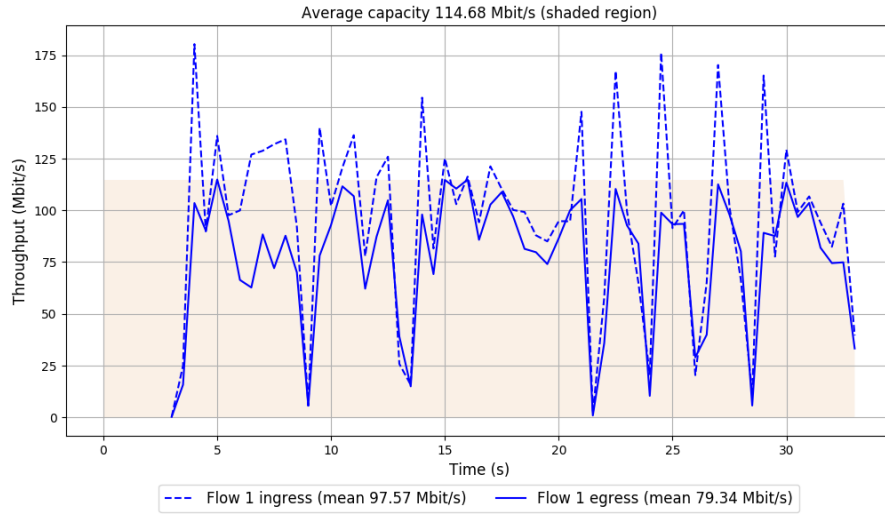
-- Flow 1:

Average throughput: 79.34 Mbit/s

95th percentile per-packet one-way delay: 91.790 ms

Loss rate: 18.81%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-27 07:50:22

End at: 2018-02-27 07:50:52

Below is generated by plot.py at 2018-02-27 08:33:54

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 66.10 Mbit/s (57.6% utilization)

95th percentile per-packet one-way delay: 92.699 ms

Loss rate: 61.91%

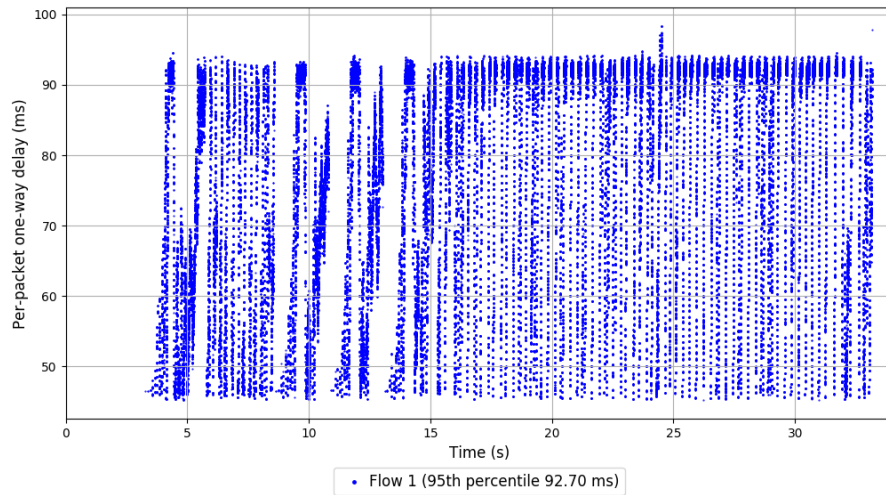
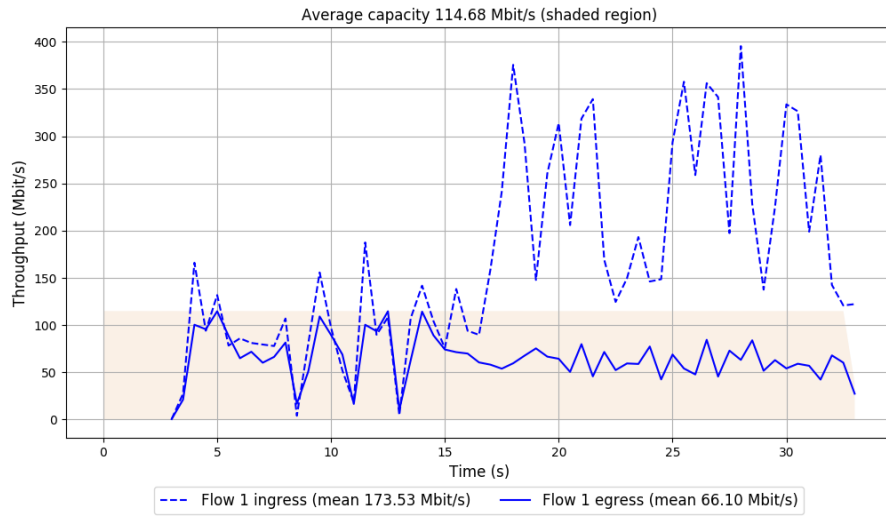
-- Flow 1:

Average throughput: 66.10 Mbit/s

95th percentile per-packet one-way delay: 92.699 ms

Loss rate: 61.91%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-27 08:02:13

End at: 2018-02-27 08:02:43

Below is generated by plot.py at 2018-02-27 08:33:54

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 72.59 Mbit/s (63.3% utilization)

95th percentile per-packet one-way delay: 91.817 ms

Loss rate: 20.31%

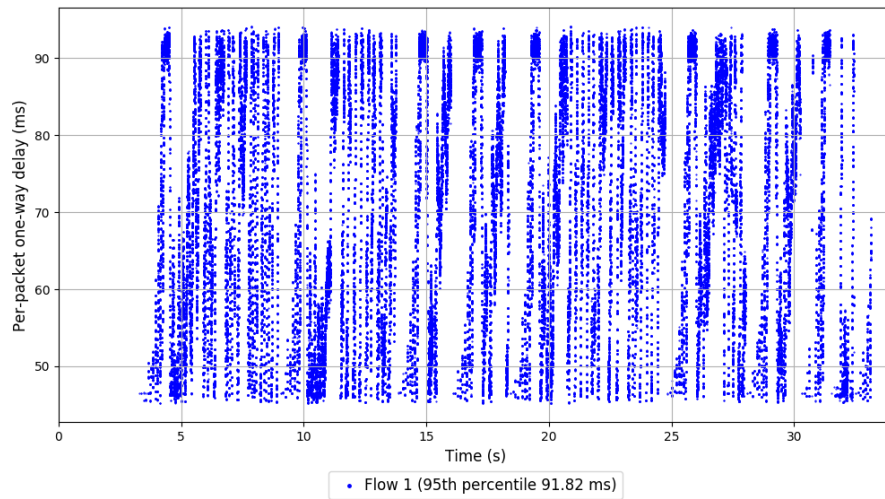
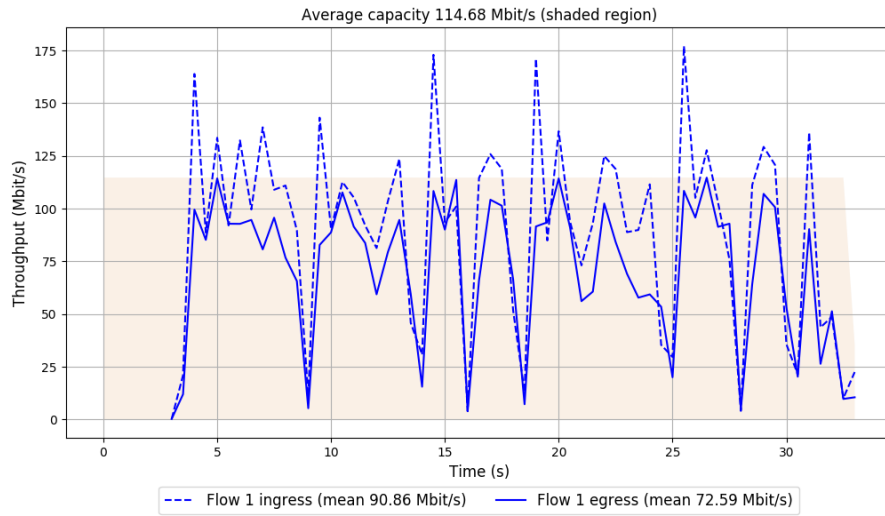
-- Flow 1:

Average throughput: 72.59 Mbit/s

95th percentile per-packet one-way delay: 91.817 ms

Loss rate: 20.31%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-27 06:16:51

End at: 2018-02-27 06:17:21

Below is generated by plot.py at 2018-02-27 08:33:54

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 61.73 Mbit/s (53.8% utilization)

95th percentile per-packet one-way delay: 59.490 ms

Loss rate: 0.15%

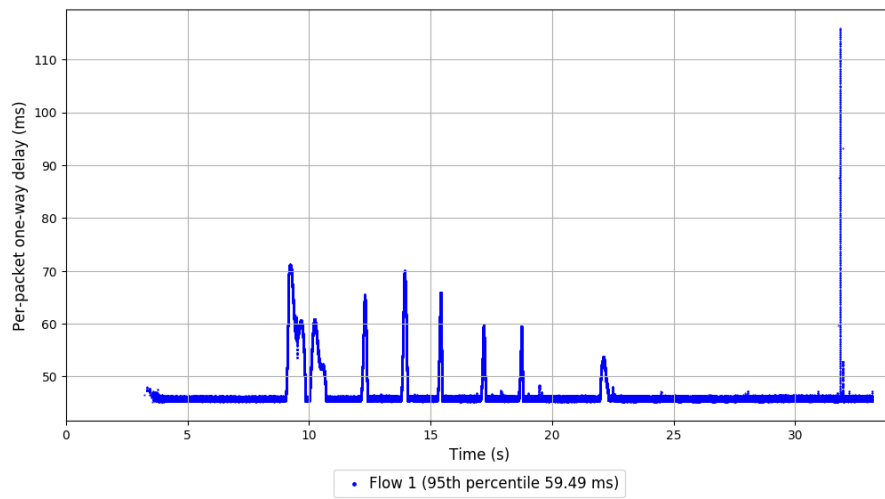
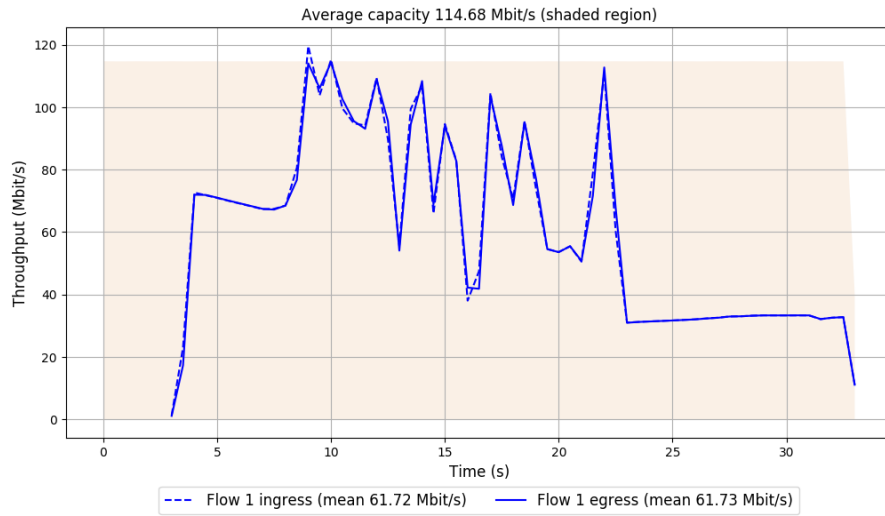
-- Flow 1:

Average throughput: 61.73 Mbit/s

95th percentile per-packet one-way delay: 59.490 ms

Loss rate: 0.15%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-27 06:28:43

End at: 2018-02-27 06:29:13

Below is generated by plot.py at 2018-02-27 08:33:54

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 58.46 Mbit/s (51.0% utilization)

95th percentile per-packet one-way delay: 60.054 ms

Loss rate: 0.18%

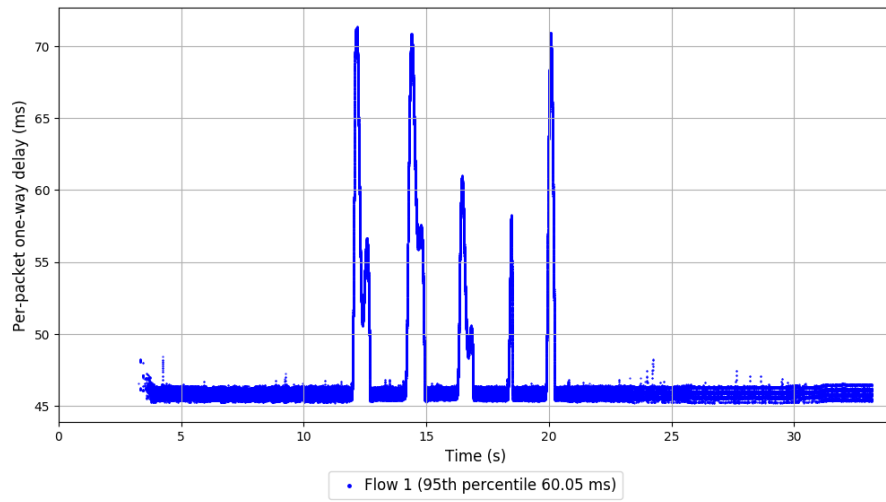
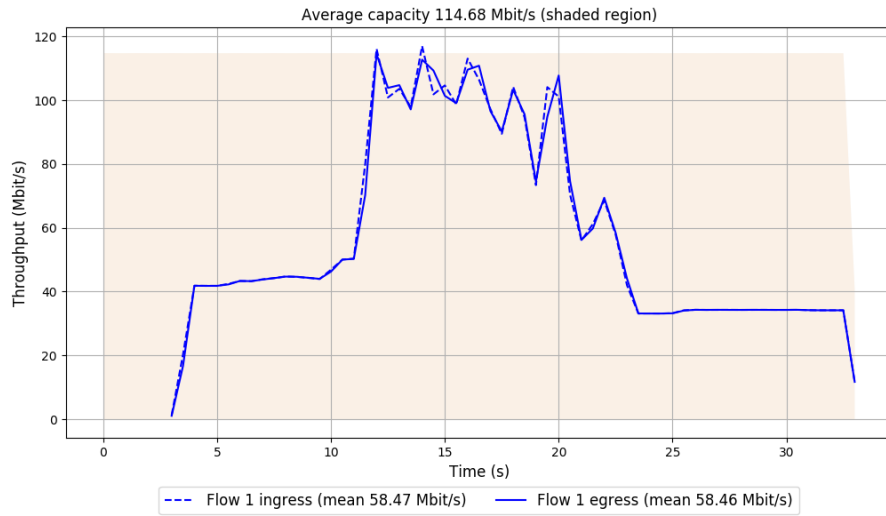
-- Flow 1:

Average throughput: 58.46 Mbit/s

95th percentile per-packet one-way delay: 60.054 ms

Loss rate: 0.18%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-27 06:40:35

End at: 2018-02-27 06:41:05

Below is generated by plot.py at 2018-02-27 08:35:24

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 60.22 Mbit/s (52.5% utilization)

95th percentile per-packet one-way delay: 66.095 ms

Loss rate: 0.24%

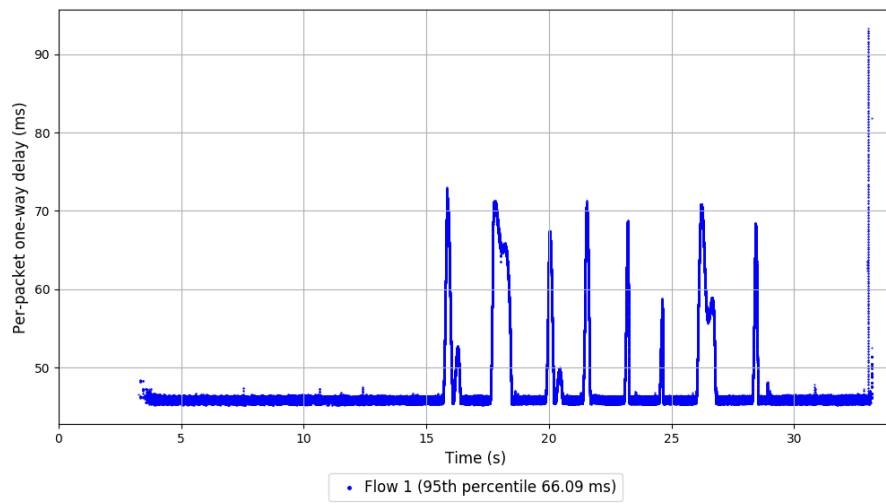
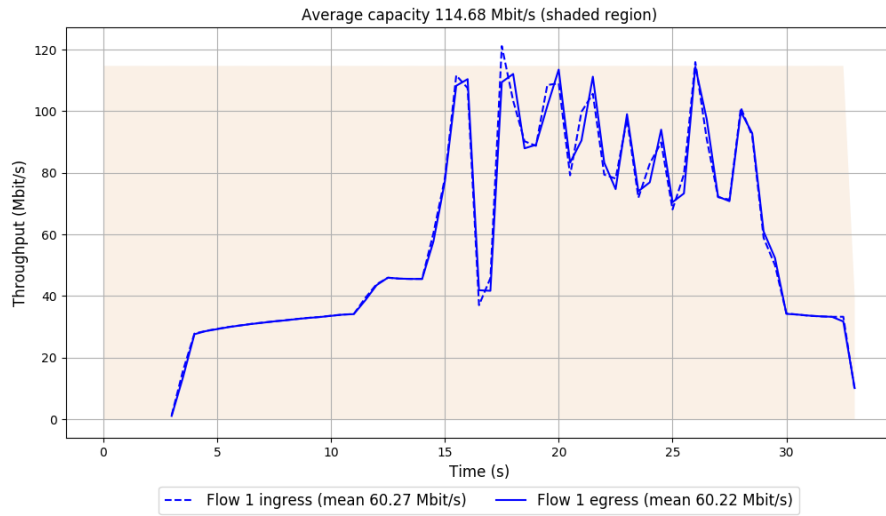
-- Flow 1:

Average throughput: 60.22 Mbit/s

95th percentile per-packet one-way delay: 66.095 ms

Loss rate: 0.24%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-27 06:52:28

End at: 2018-02-27 06:52:58

Below is generated by plot.py at 2018-02-27 08:35:24

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 33.01 Mbit/s (28.8% utilization)

95th percentile per-packet one-way delay: 46.336 ms

Loss rate: 0.16%

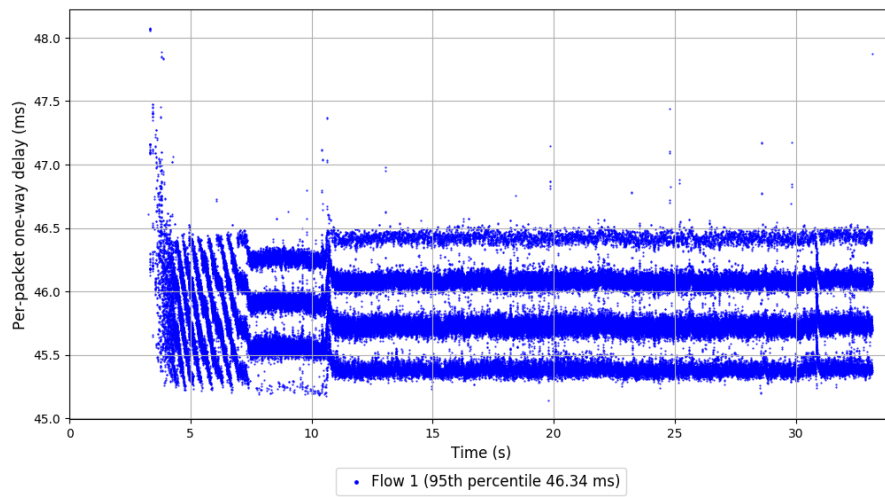
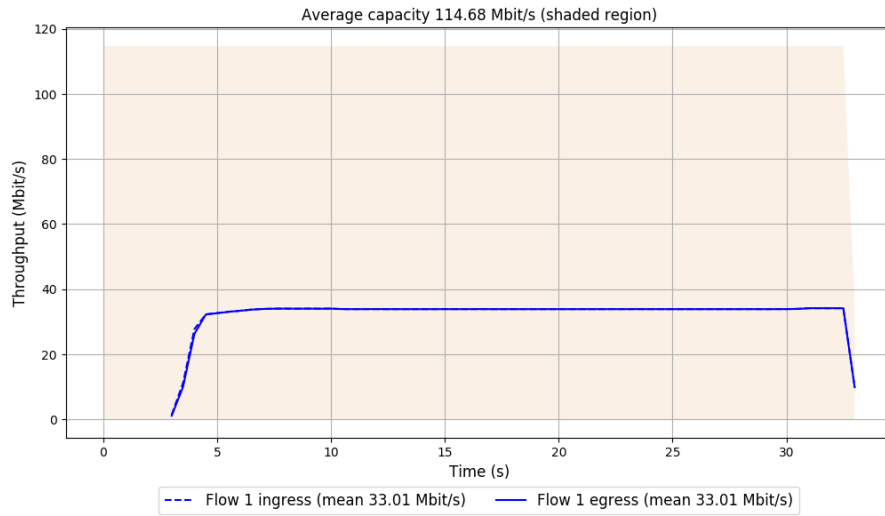
-- Flow 1:

Average throughput: 33.01 Mbit/s

95th percentile per-packet one-way delay: 46.336 ms

Loss rate: 0.16%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-27 07:04:22

End at: 2018-02-27 07:04:52

Below is generated by plot.py at 2018-02-27 08:35:24

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 45.35 Mbit/s (39.5% utilization)

95th percentile per-packet one-way delay: 58.822 ms

Loss rate: 0.58%

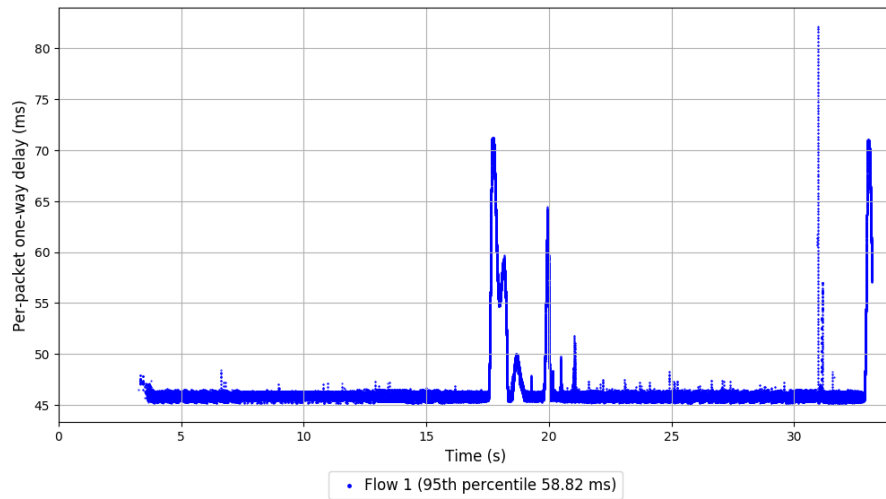
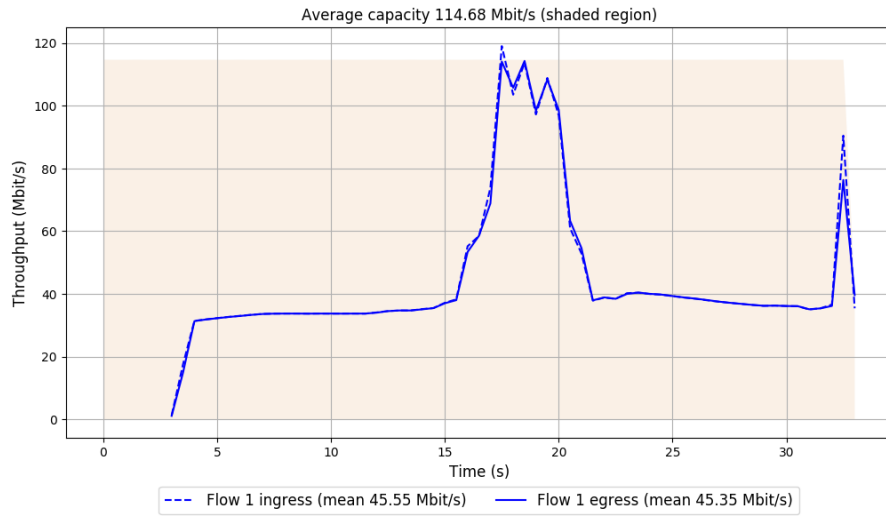
-- Flow 1:

Average throughput: 45.35 Mbit/s

95th percentile per-packet one-way delay: 58.822 ms

Loss rate: 0.58%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-27 07:16:15

End at: 2018-02-27 07:16:45

Below is generated by plot.py at 2018-02-27 08:35:47

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 56.45 Mbit/s (49.2% utilization)

95th percentile per-packet one-way delay: 61.600 ms

Loss rate: 0.09%

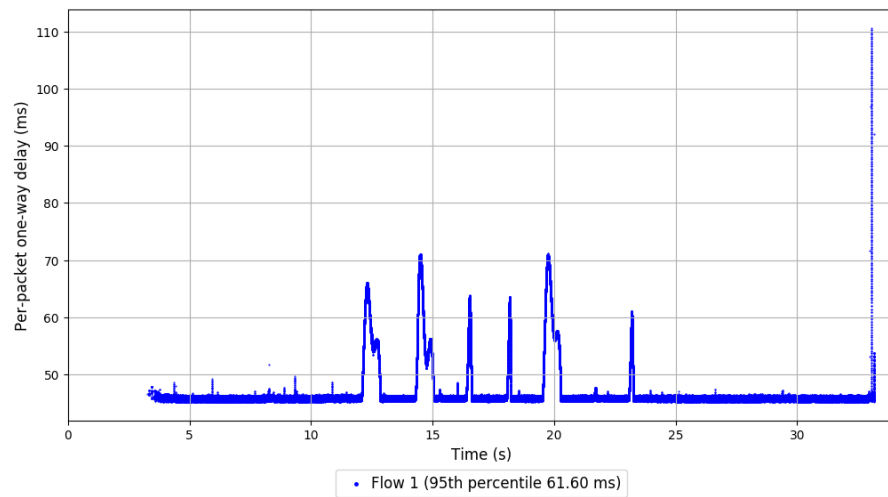
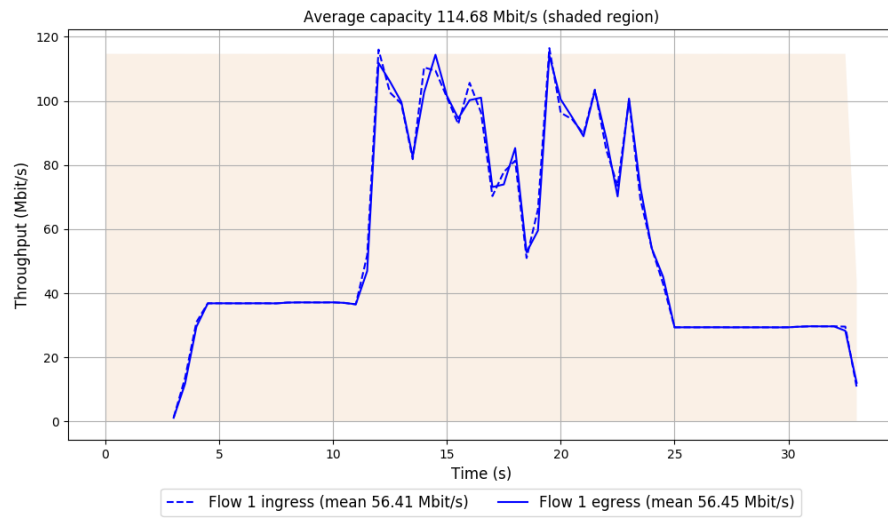
-- Flow 1:

Average throughput: 56.45 Mbit/s

95th percentile per-packet one-way delay: 61.600 ms

Loss rate: 0.09%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-27 07:28:08

End at: 2018-02-27 07:28:38

Below is generated by plot.py at 2018-02-27 08:41:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 105.35 Mbit/s (91.9% utilization)

95th percentile per-packet one-way delay: 71.441 ms

Loss rate: 82.79%

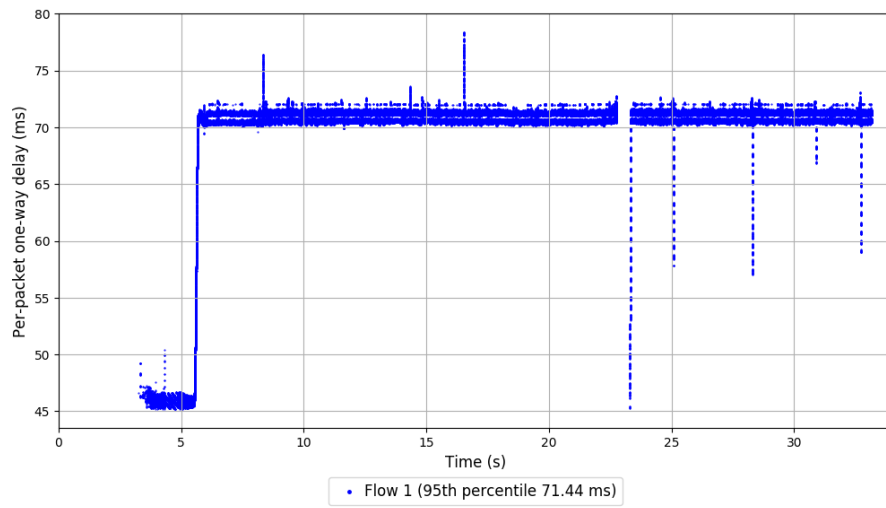
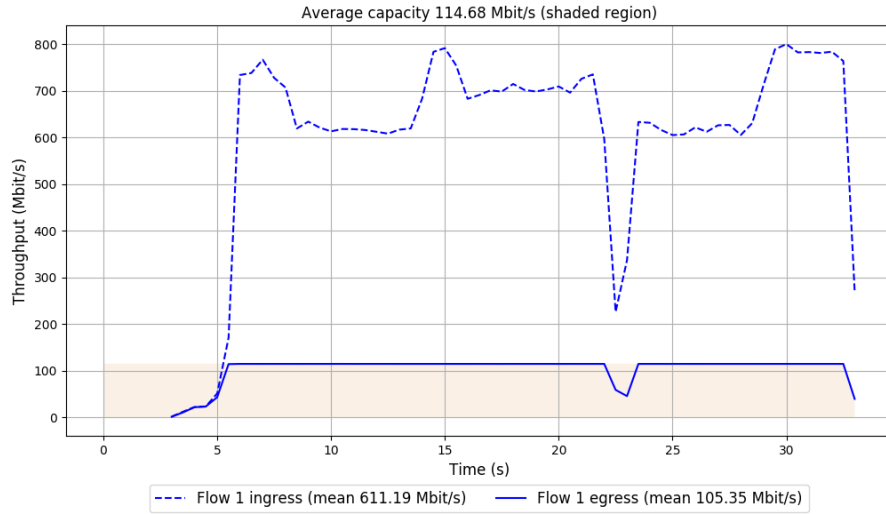
-- Flow 1:

Average throughput: 105.35 Mbit/s

95th percentile per-packet one-way delay: 71.441 ms

Loss rate: 82.79%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-27 07:40:20

End at: 2018-02-27 07:40:50

Below is generated by plot.py at 2018-02-27 08:41:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 61.80 Mbit/s (53.9% utilization)

95th percentile per-packet one-way delay: 61.930 ms

Loss rate: 0.12%

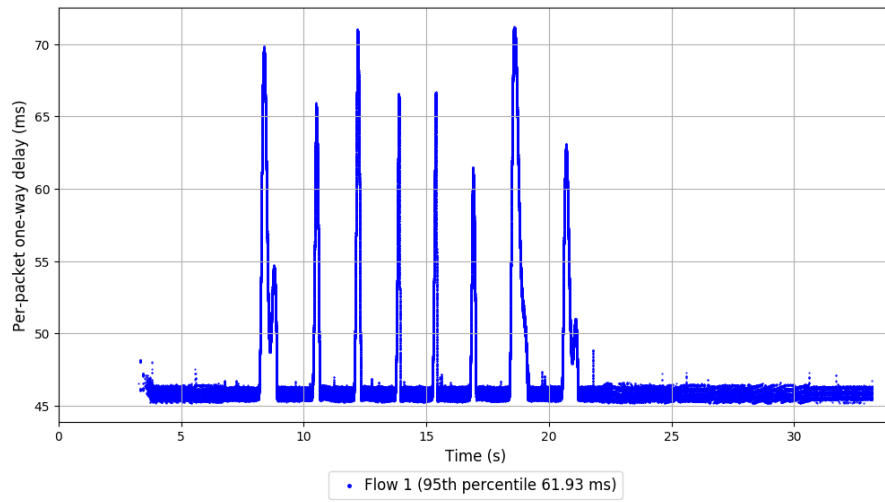
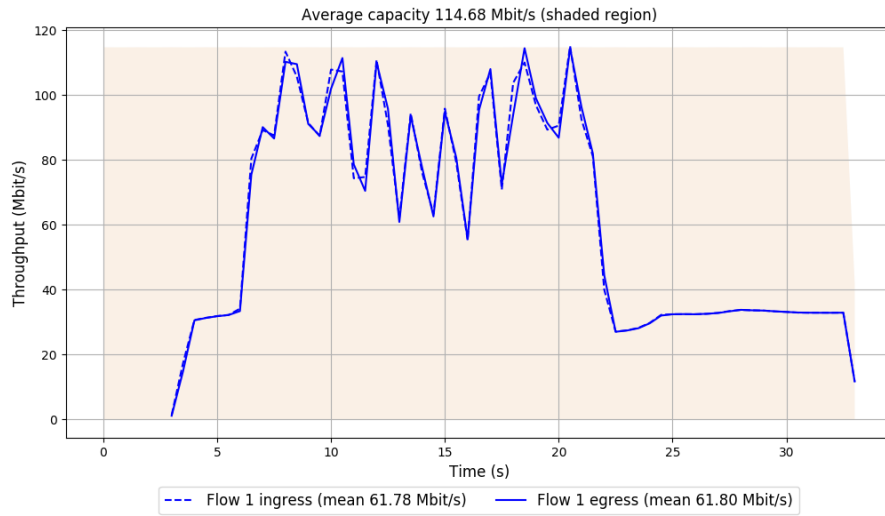
-- Flow 1:

Average throughput: 61.80 Mbit/s

95th percentile per-packet one-way delay: 61.930 ms

Loss rate: 0.12%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-27 07:52:13

End at: 2018-02-27 07:52:43

Below is generated by plot.py at 2018-02-27 08:41:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 55.81 Mbit/s (48.7% utilization)

95th percentile per-packet one-way delay: 63.077 ms

Loss rate: 0.42%

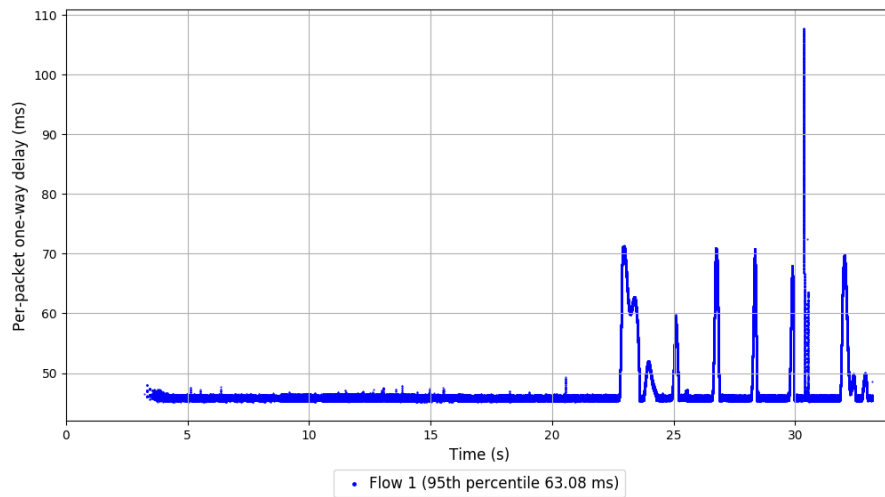
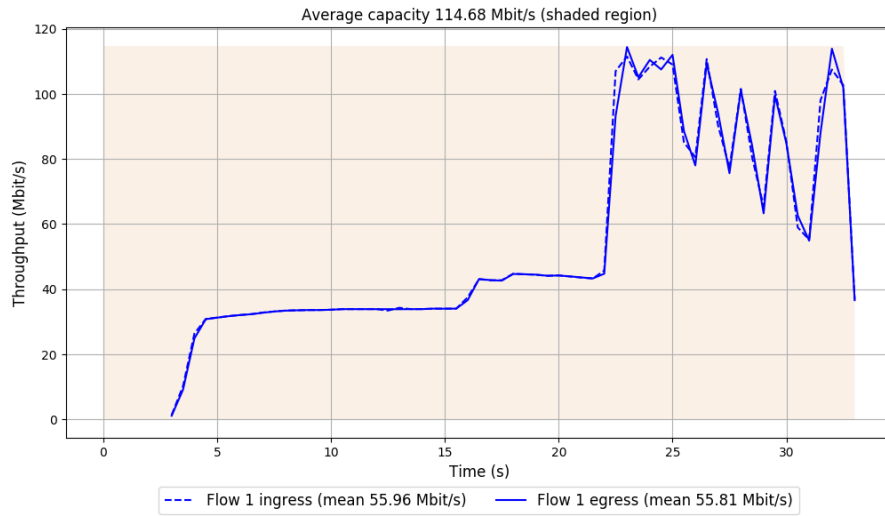
-- Flow 1:

Average throughput: 55.81 Mbit/s

95th percentile per-packet one-way delay: 63.077 ms

Loss rate: 0.42%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-27 08:04:04

End at: 2018-02-27 08:04:34

Below is generated by plot.py at 2018-02-27 08:41:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 51.87 Mbit/s (45.2% utilization)

95th percentile per-packet one-way delay: 57.317 ms

Loss rate: 0.29%

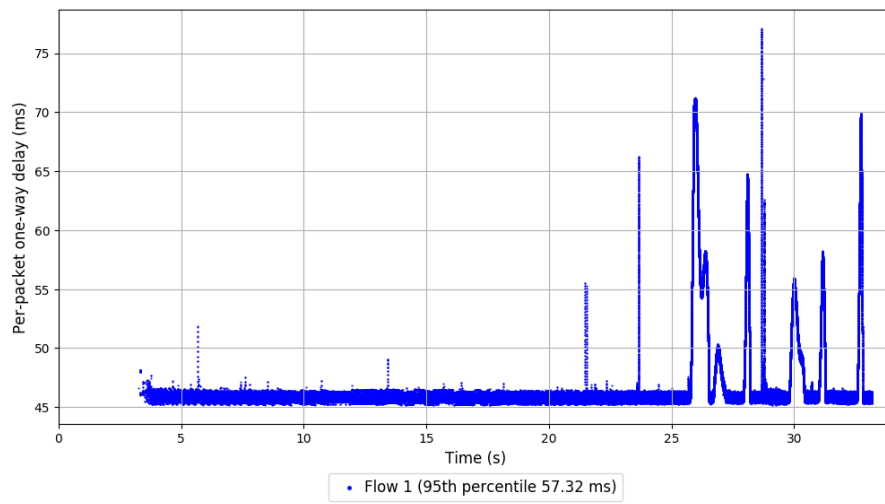
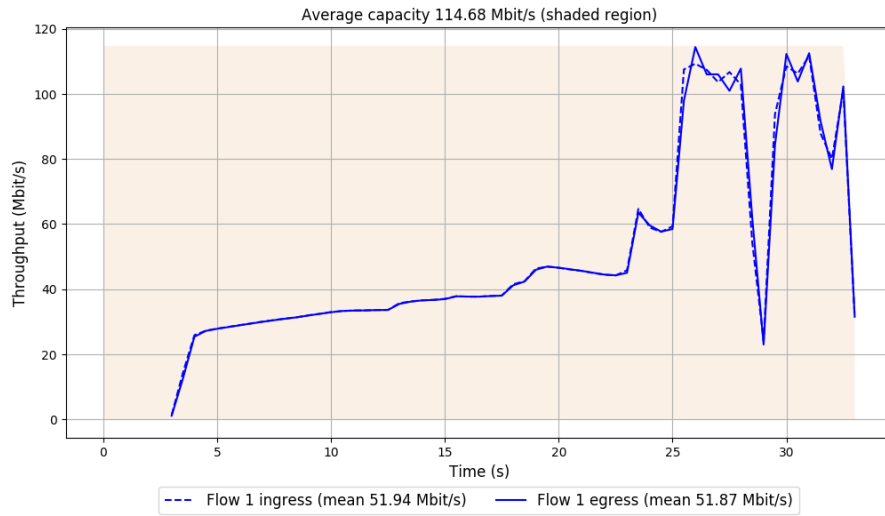
-- Flow 1:

Average throughput: 51.87 Mbit/s

95th percentile per-packet one-way delay: 57.317 ms

Loss rate: 0.29%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-02-27 06:08:27

End at: 2018-02-27 06:08:57

Below is generated by plot.py at 2018-02-27 08:41:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 112.93 Mbit/s (98.5% utilization)

95th percentile per-packet one-way delay: 88.655 ms

Loss rate: 18.12%

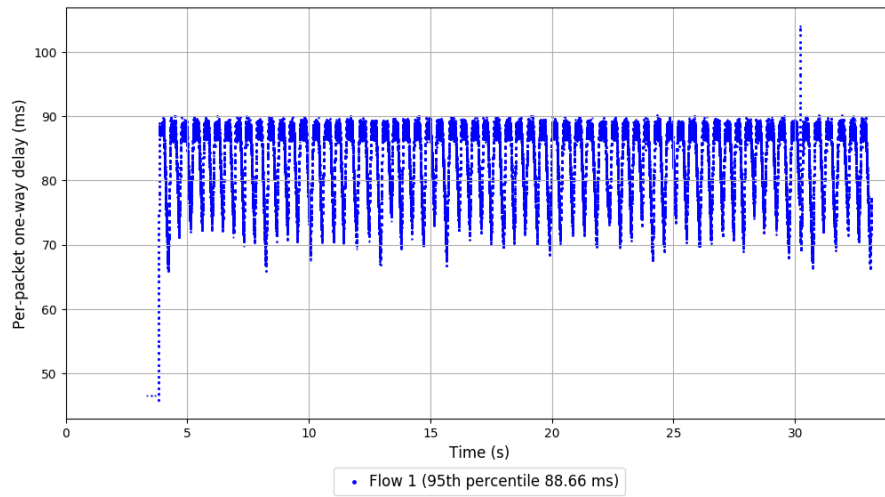
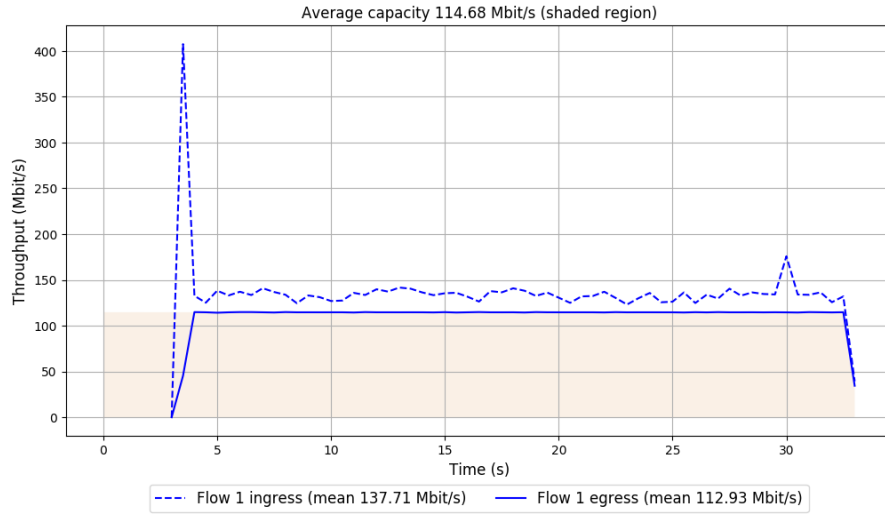
-- Flow 1:

Average throughput: 112.93 Mbit/s

95th percentile per-packet one-way delay: 88.655 ms

Loss rate: 18.12%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-27 06:20:15

End at: 2018-02-27 06:20:45

Below is generated by plot.py at 2018-02-27 08:41:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 113.35 Mbit/s (98.8% utilization)

95th percentile per-packet one-way delay: 88.706 ms

Loss rate: 17.99%

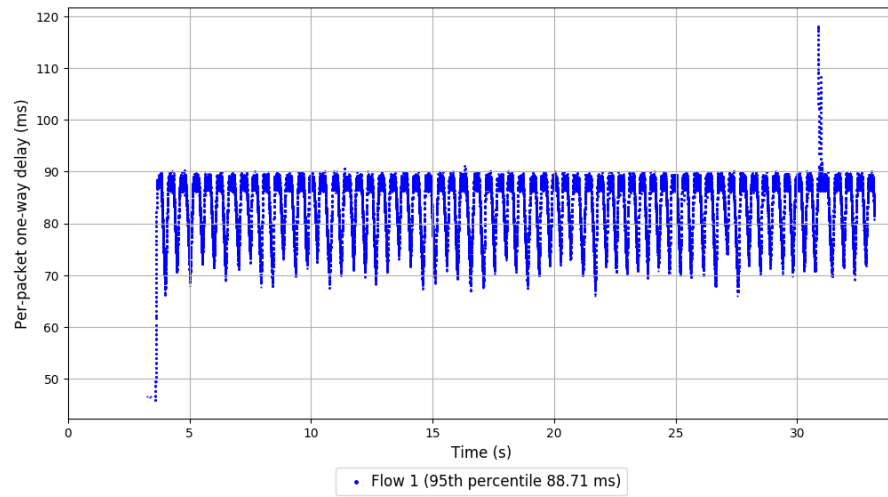
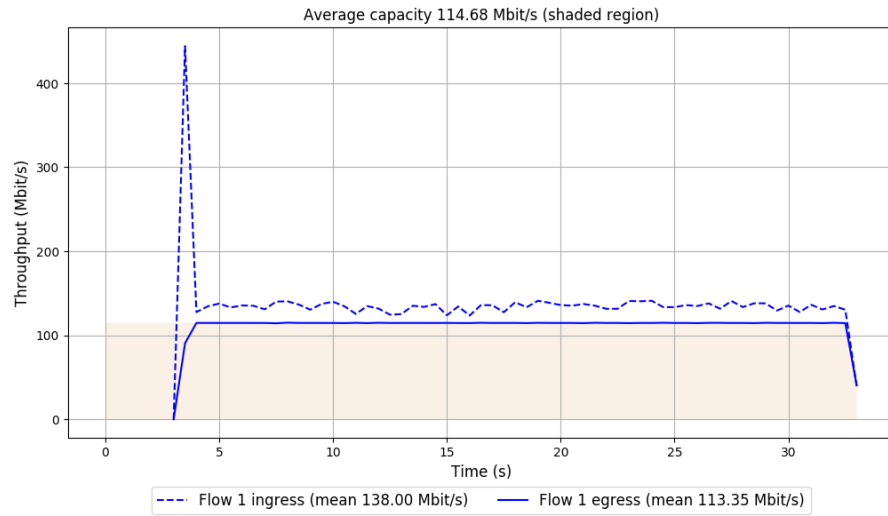
-- Flow 1:

Average throughput: 113.35 Mbit/s

95th percentile per-packet one-way delay: 88.706 ms

Loss rate: 17.99%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-27 06:32:06

End at: 2018-02-27 06:32:36

Below is generated by plot.py at 2018-02-27 08:41:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 113.34 Mbit/s (98.8% utilization)

95th percentile per-packet one-way delay: 88.655 ms

Loss rate: 17.11%

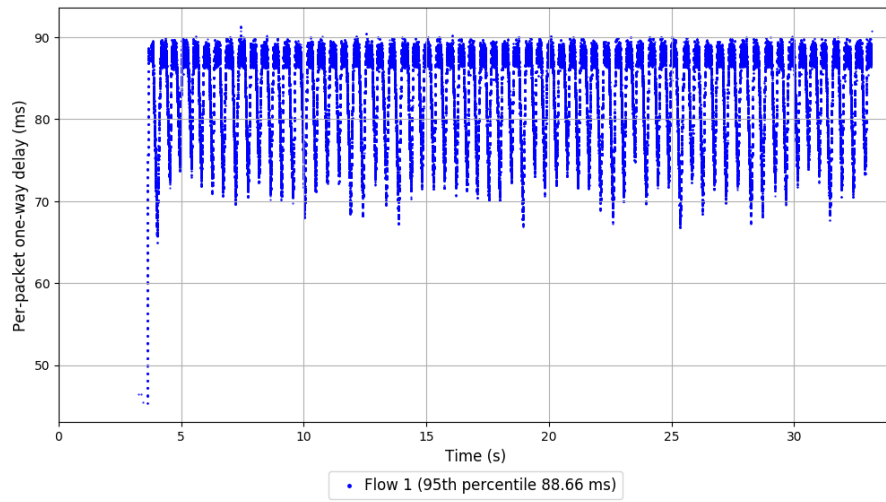
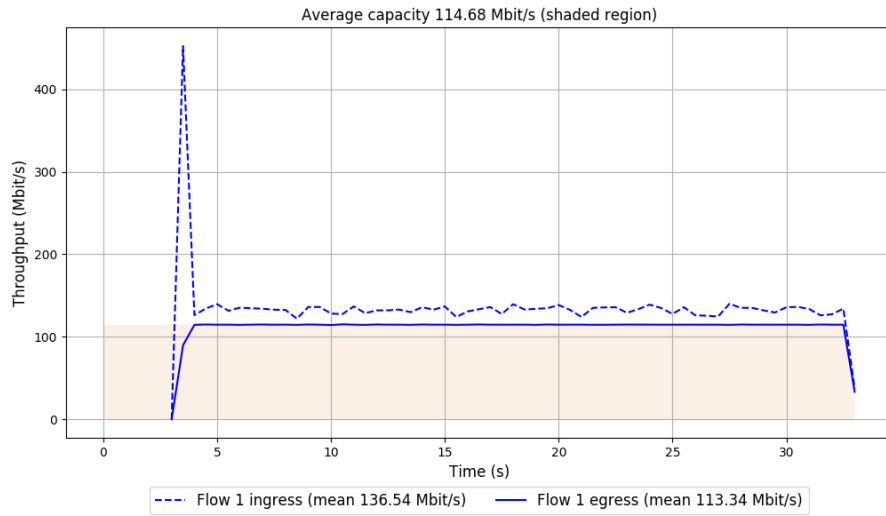
-- Flow 1:

Average throughput: 113.34 Mbit/s

95th percentile per-packet one-way delay: 88.655 ms

Loss rate: 17.11%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-27 06:43:59

End at: 2018-02-27 06:44:29

Below is generated by plot.py at 2018-02-27 08:41:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 113.27 Mbit/s (98.8% utilization)

95th percentile per-packet one-way delay: 88.685 ms

Loss rate: 17.39%

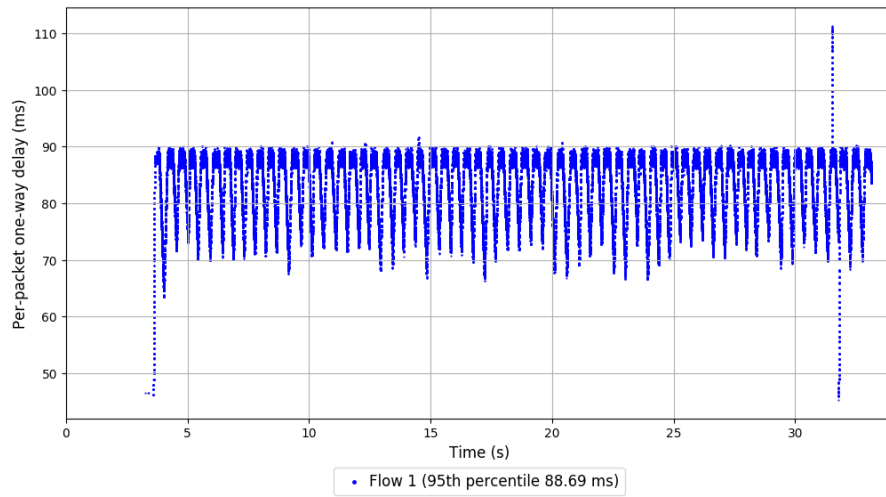
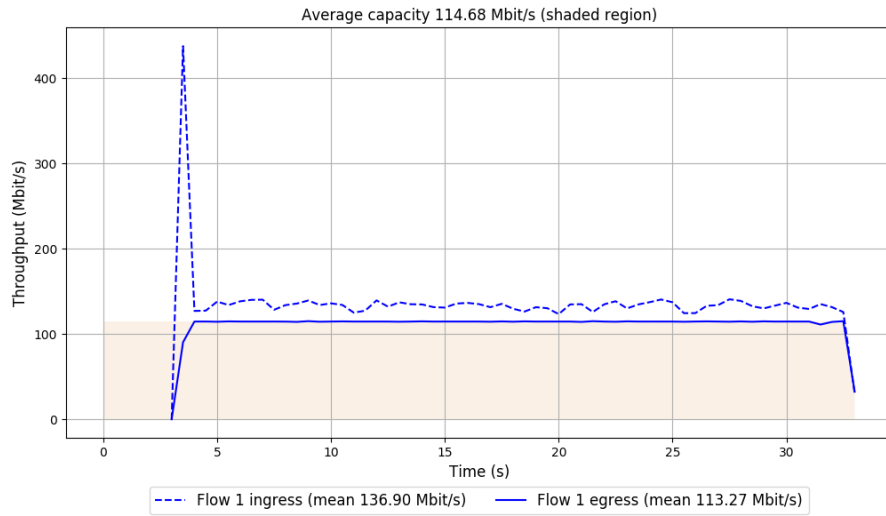
-- Flow 1:

Average throughput: 113.27 Mbit/s

95th percentile per-packet one-way delay: 88.685 ms

Loss rate: 17.39%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-27 06:55:49

End at: 2018-02-27 06:56:19

Below is generated by plot.py at 2018-02-27 08:41:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 113.36 Mbit/s (98.8% utilization)

95th percentile per-packet one-way delay: 88.675 ms

Loss rate: 17.72%

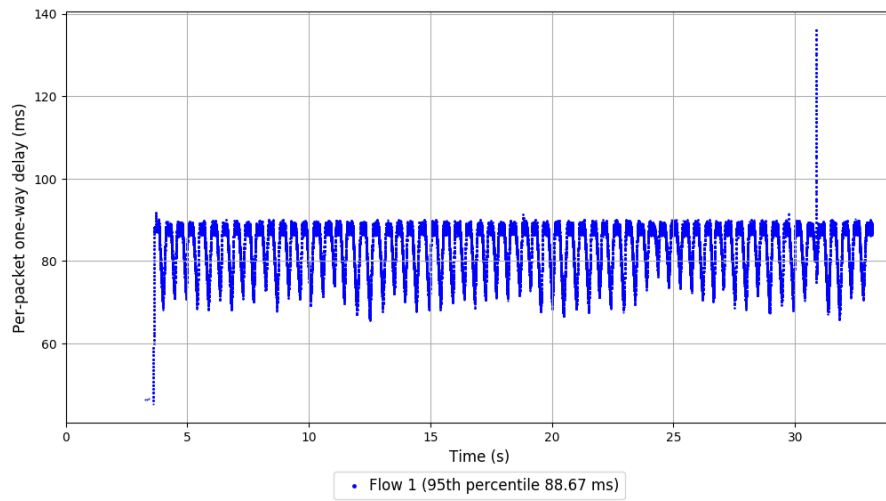
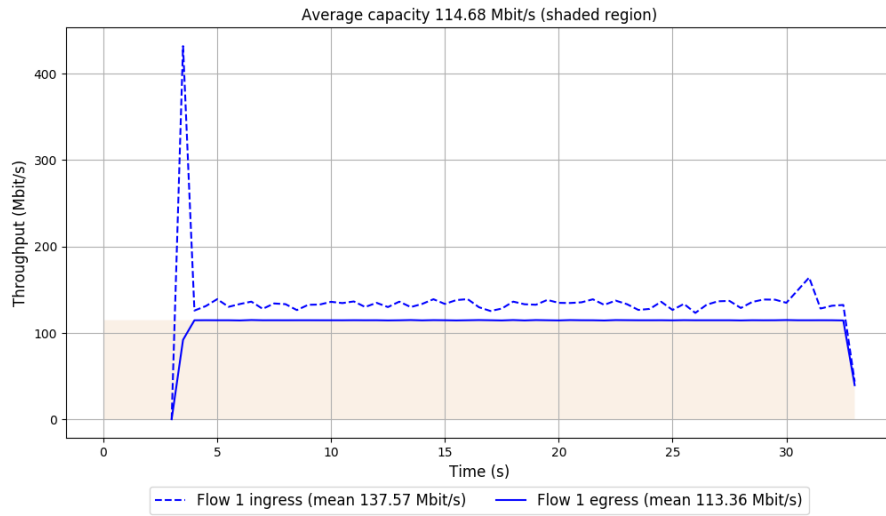
-- Flow 1:

Average throughput: 113.36 Mbit/s

95th percentile per-packet one-way delay: 88.675 ms

Loss rate: 17.72%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-27 07:07:45

End at: 2018-02-27 07:08:15

Below is generated by plot.py at 2018-02-27 08:41:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 113.35 Mbit/s (98.8% utilization)

95th percentile per-packet one-way delay: 88.684 ms

Loss rate: 17.58%

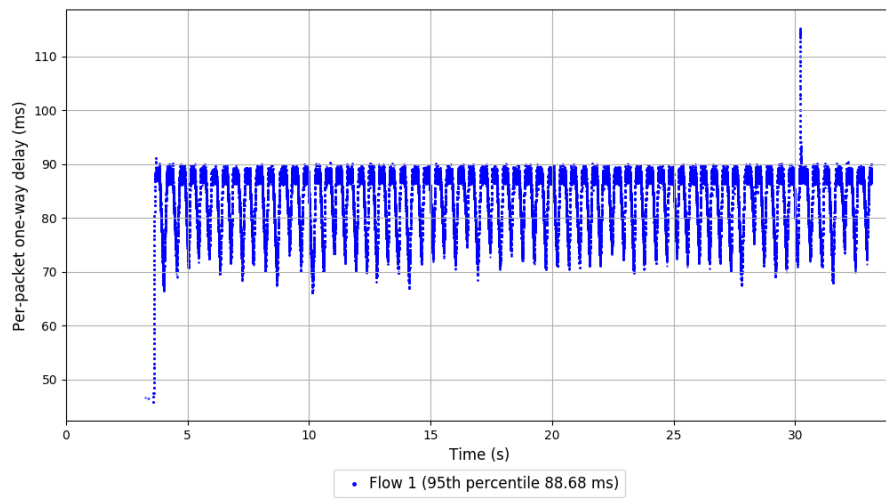
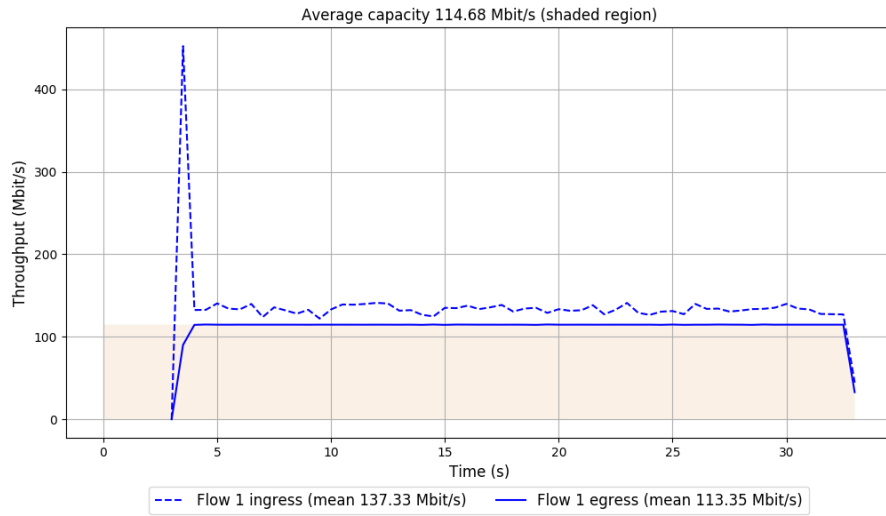
-- Flow 1:

Average throughput: 113.35 Mbit/s

95th percentile per-packet one-way delay: 88.684 ms

Loss rate: 17.58%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-27 07:19:38

End at: 2018-02-27 07:20:08

Below is generated by plot.py at 2018-02-27 08:41:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 113.34 Mbit/s (98.8% utilization)

95th percentile per-packet one-way delay: 88.689 ms

Loss rate: 18.16%

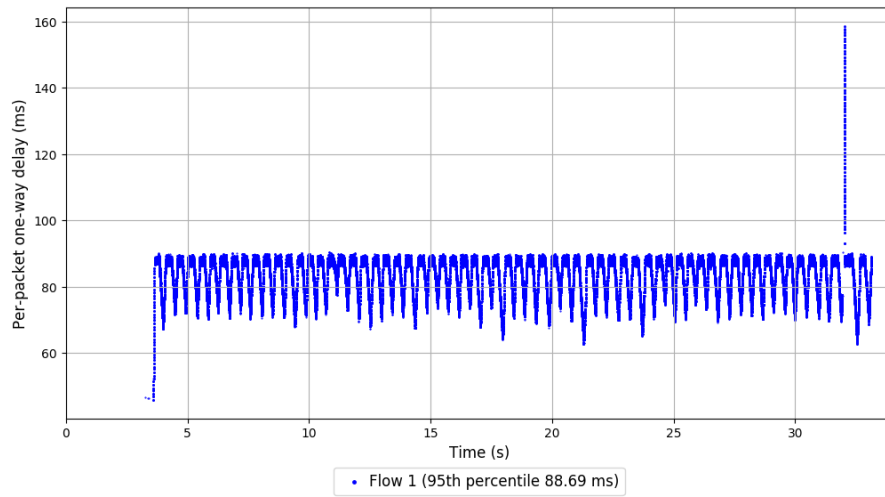
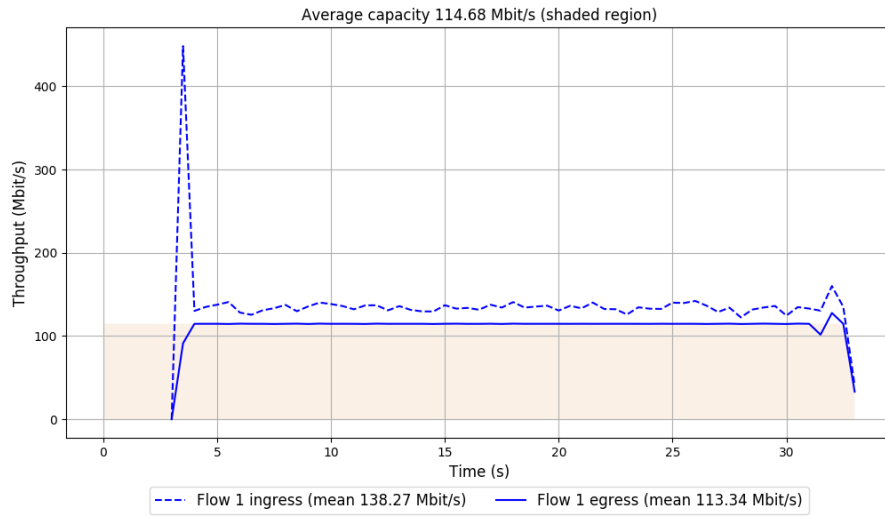
-- Flow 1:

Average throughput: 113.34 Mbit/s

95th percentile per-packet one-way delay: 88.689 ms

Loss rate: 18.16%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-27 07:31:51

End at: 2018-02-27 07:32:21

Below is generated by plot.py at 2018-02-27 08:41:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 113.34 Mbit/s (98.8% utilization)

95th percentile per-packet one-way delay: 88.665 ms

Loss rate: 17.43%

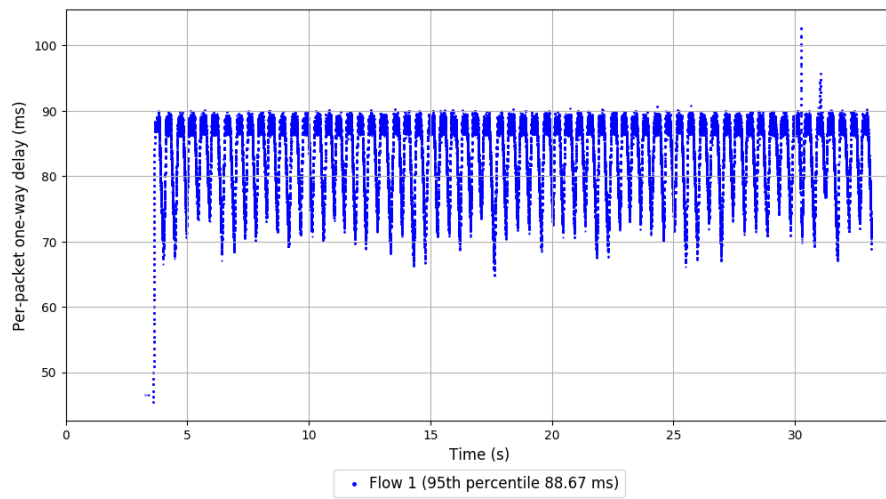
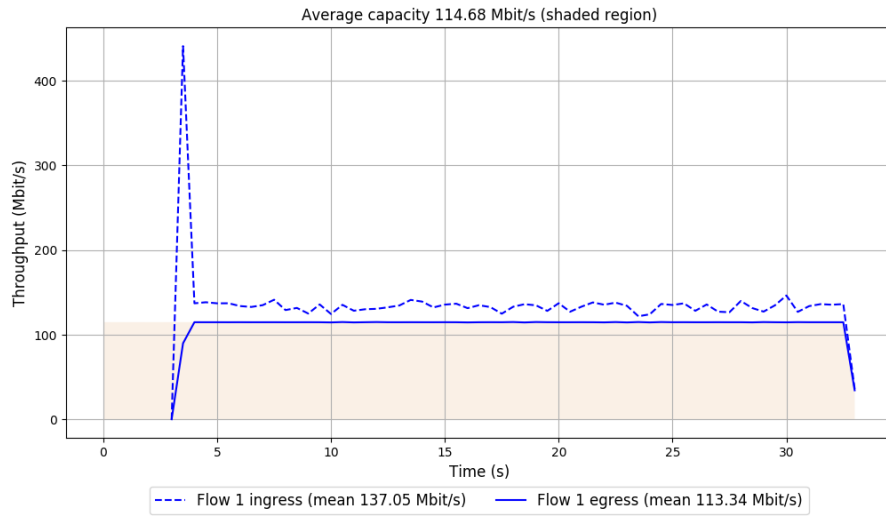
-- Flow 1:

Average throughput: 113.34 Mbit/s

95th percentile per-packet one-way delay: 88.665 ms

Loss rate: 17.43%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-27 07:43:44

End at: 2018-02-27 07:44:14

Below is generated by plot.py at 2018-02-27 08:41:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 113.39 Mbit/s (98.9% utilization)

95th percentile per-packet one-way delay: 88.684 ms

Loss rate: 18.25%

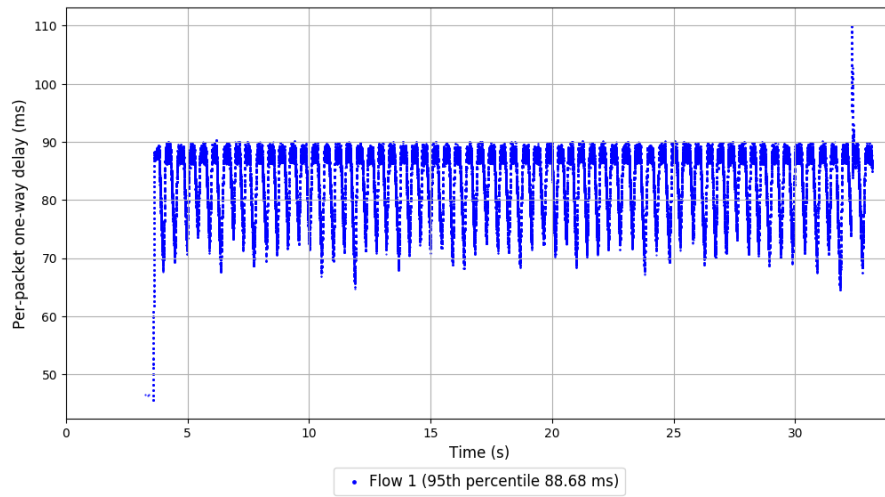
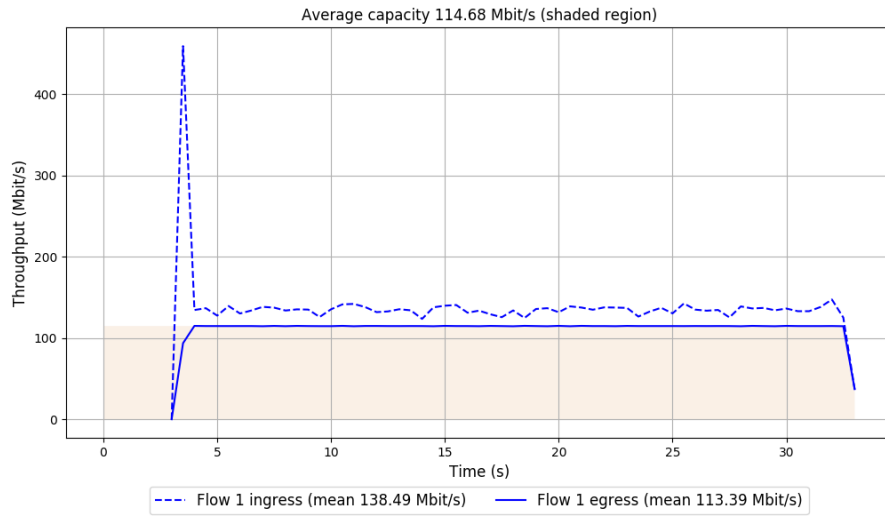
-- Flow 1:

Average throughput: 113.39 Mbit/s

95th percentile per-packet one-way delay: 88.684 ms

Loss rate: 18.25%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-27 07:55:36

End at: 2018-02-27 07:56:06

Below is generated by plot.py at 2018-02-27 08:41:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 113.37 Mbit/s (98.9% utilization)

95th percentile per-packet one-way delay: 88.661 ms

Loss rate: 17.53%

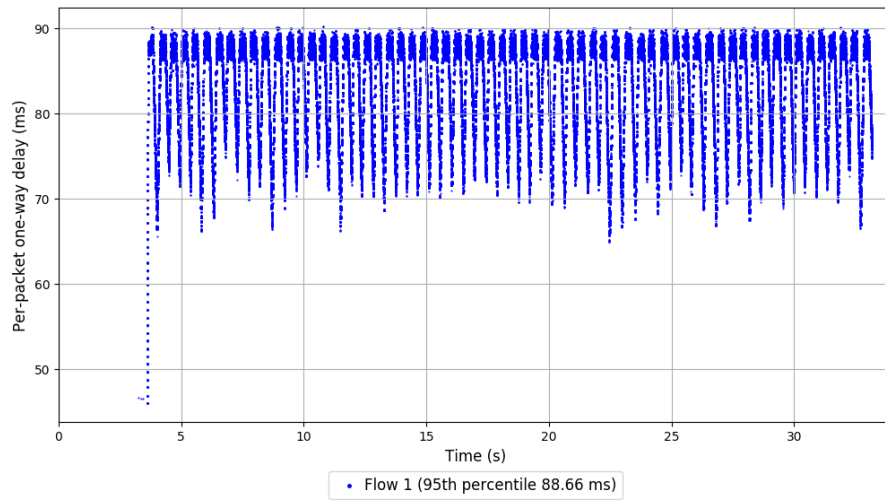
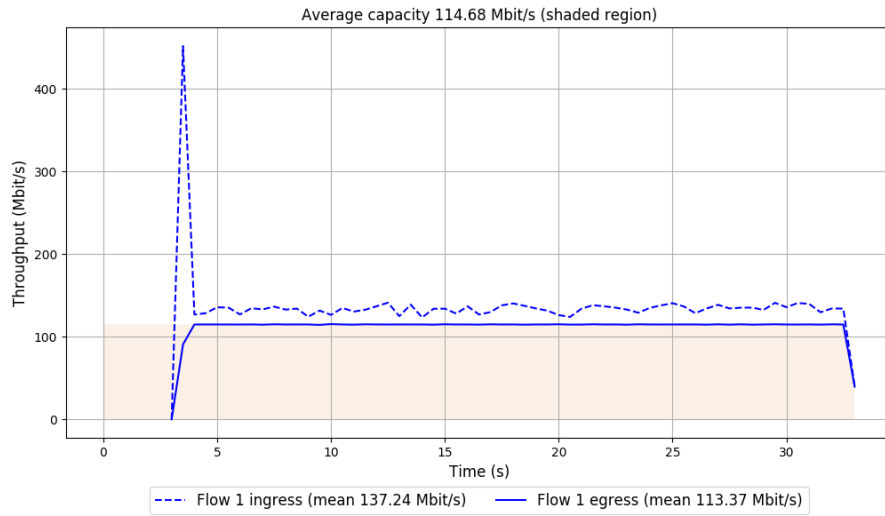
-- Flow 1:

Average throughput: 113.37 Mbit/s

95th percentile per-packet one-way delay: 88.661 ms

Loss rate: 17.53%

Run 10: Report of FillP — Data Link



Run 1: Statistics of Indigo-1-32

Start at: 2018-02-27 06:12:57

End at: 2018-02-27 06:13:27

Below is generated by plot.py at 2018-02-27 08:41:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 108.93 Mbit/s (95.0% utilization)

95th percentile per-packet one-way delay: 49.603 ms

Loss rate: 0.17%

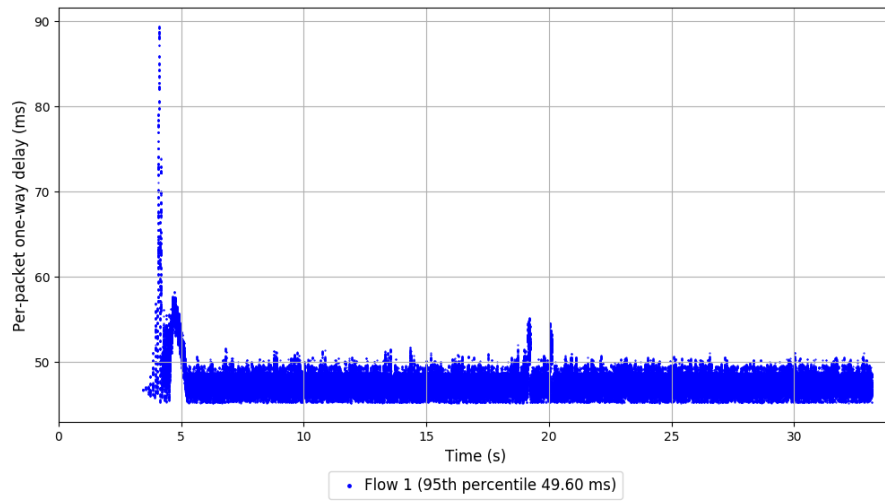
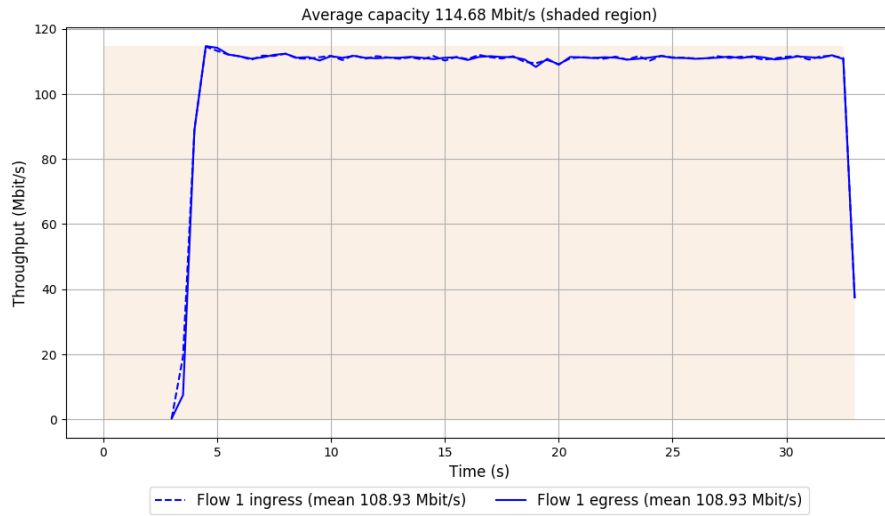
-- Flow 1:

Average throughput: 108.93 Mbit/s

95th percentile per-packet one-way delay: 49.603 ms

Loss rate: 0.17%

Run 1: Report of Indigo-1-32 — Data Link



Run 2: Statistics of Indigo-1-32

Start at: 2018-02-27 06:24:48

End at: 2018-02-27 06:25:18

Below is generated by plot.py at 2018-02-27 08:41:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 101.69 Mbit/s (88.7% utilization)

95th percentile per-packet one-way delay: 49.413 ms

Loss rate: 0.18%

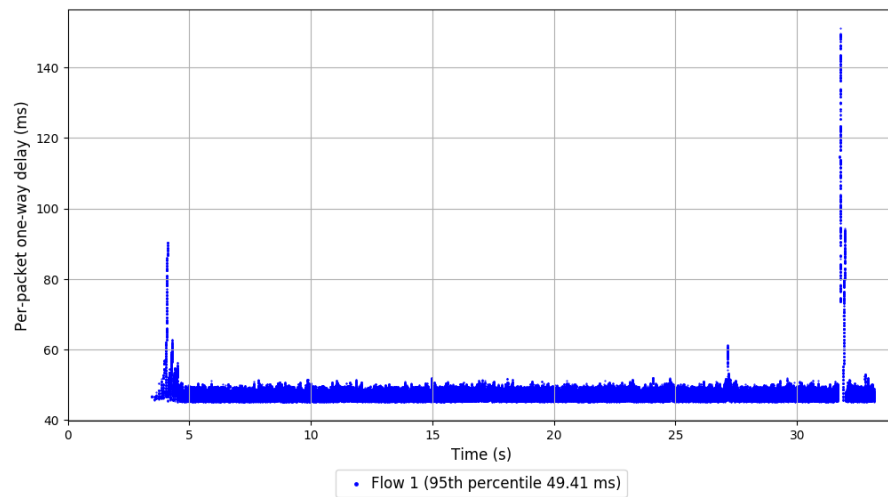
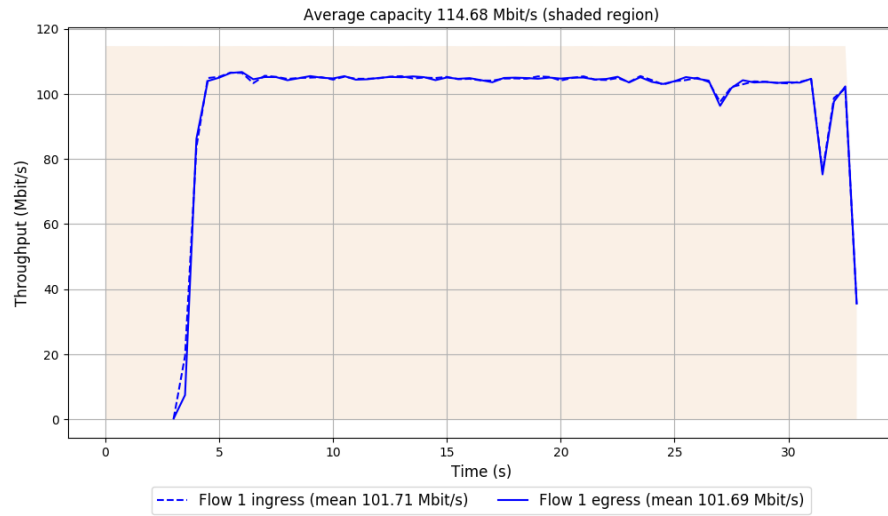
-- Flow 1:

Average throughput: 101.69 Mbit/s

95th percentile per-packet one-way delay: 49.413 ms

Loss rate: 0.18%

Run 2: Report of Indigo-1-32 — Data Link



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-27 06:36:40

End at: 2018-02-27 06:37:10

Below is generated by plot.py at 2018-02-27 08:41:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 107.86 Mbit/s (94.0% utilization)

95th percentile per-packet one-way delay: 49.461 ms

Loss rate: 0.15%

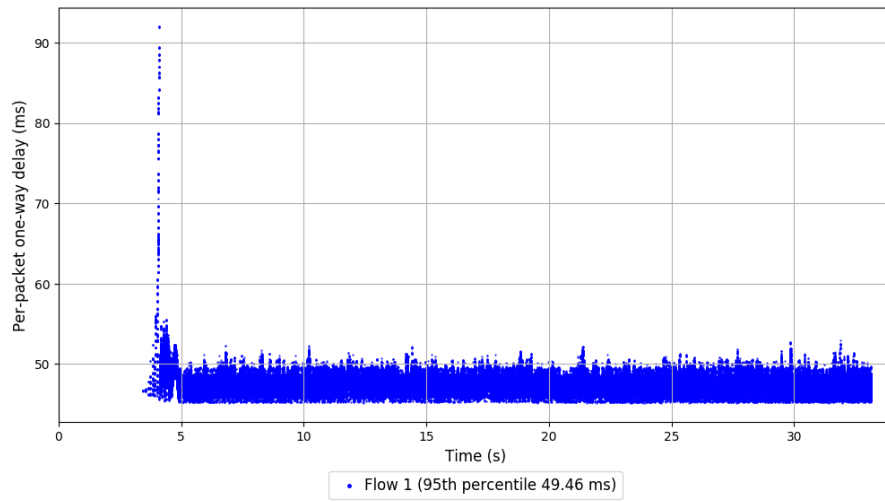
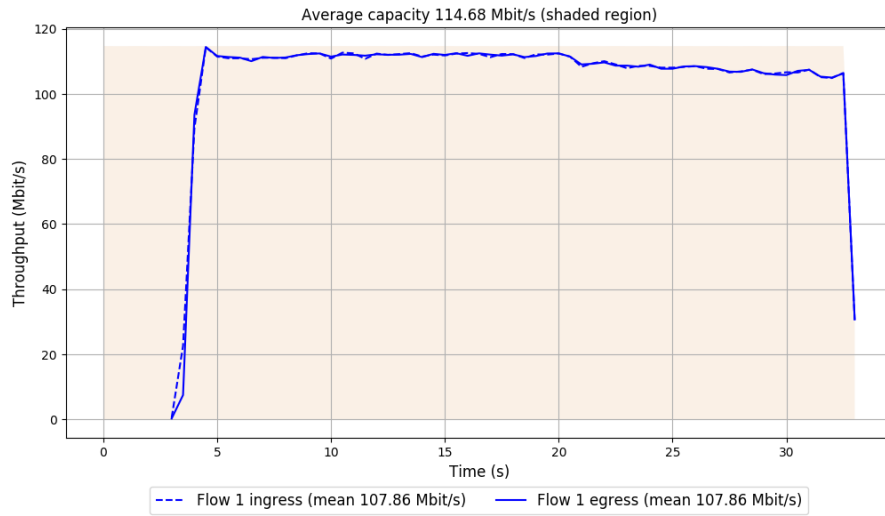
-- Flow 1:

Average throughput: 107.86 Mbit/s

95th percentile per-packet one-way delay: 49.461 ms

Loss rate: 0.15%

Run 3: Report of Indigo-1-32 — Data Link



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-27 06:48:34

End at: 2018-02-27 06:49:04

Below is generated by plot.py at 2018-02-27 08:41:22

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 103.43 Mbit/s (90.2% utilization)

95th percentile per-packet one-way delay: 49.363 ms

Loss rate: 0.15%

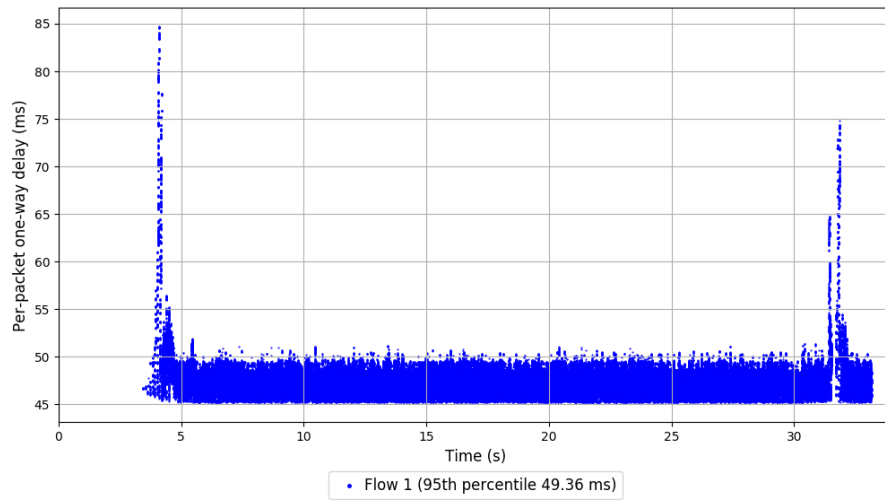
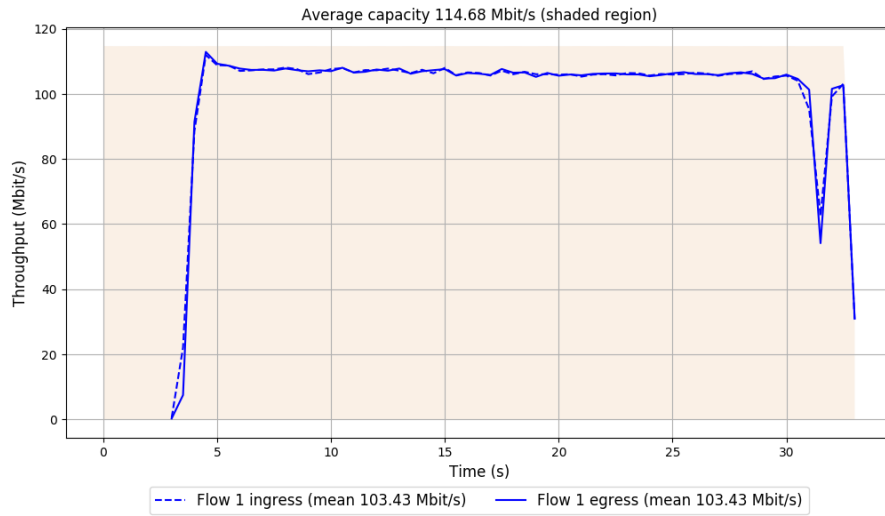
-- Flow 1:

Average throughput: 103.43 Mbit/s

95th percentile per-packet one-way delay: 49.363 ms

Loss rate: 0.15%

Run 4: Report of Indigo-1-32 — Data Link



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-27 07:00:23

End at: 2018-02-27 07:00:53

Below is generated by plot.py at 2018-02-27 08:42:39

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 103.64 Mbit/s (90.4% utilization)

95th percentile per-packet one-way delay: 49.450 ms

Loss rate: 0.16%

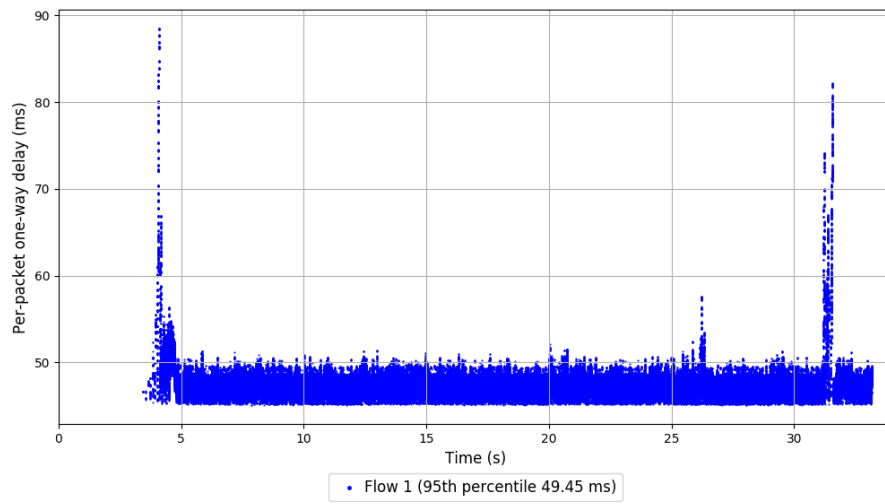
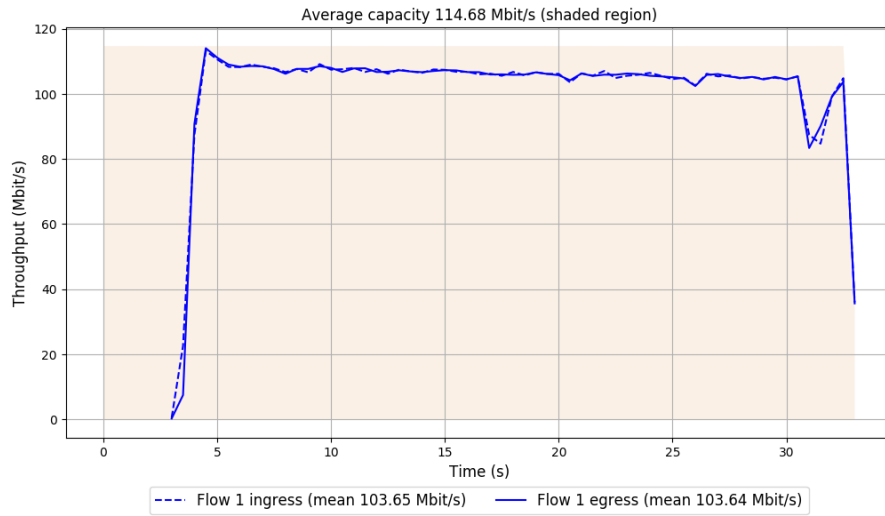
-- Flow 1:

Average throughput: 103.64 Mbit/s

95th percentile per-packet one-way delay: 49.450 ms

Loss rate: 0.16%

Run 5: Report of Indigo-1-32 — Data Link



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-27 07:12:19

End at: 2018-02-27 07:12:49

Below is generated by plot.py at 2018-02-27 08:43:06

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 103.22 Mbit/s (90.0% utilization)

95th percentile per-packet one-way delay: 49.473 ms

Loss rate: 0.14%

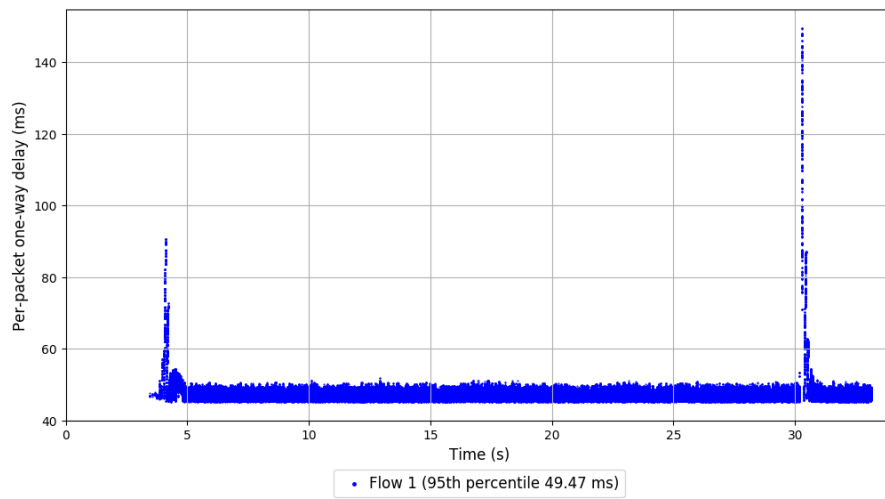
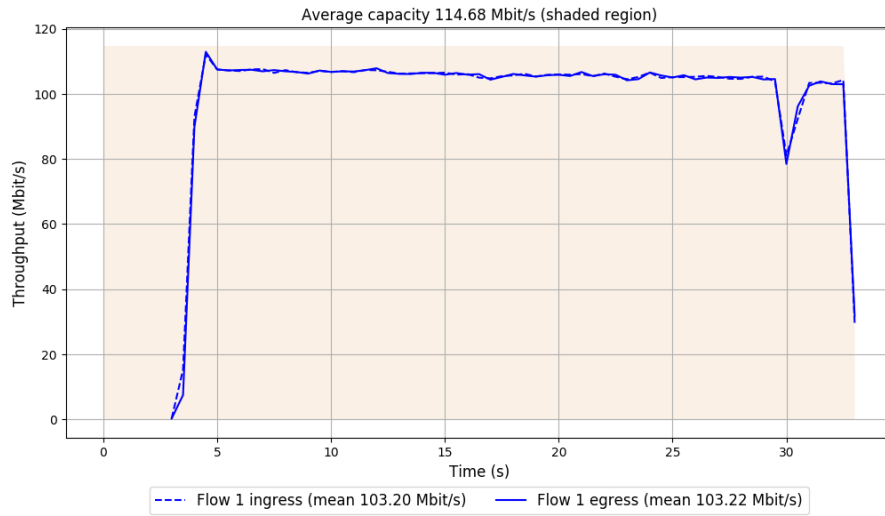
-- Flow 1:

Average throughput: 103.22 Mbit/s

95th percentile per-packet one-way delay: 49.473 ms

Loss rate: 0.14%

Run 6: Report of Indigo-1-32 — Data Link



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-27 07:24:12

End at: 2018-02-27 07:24:42

Below is generated by plot.py at 2018-02-27 08:43:15

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 101.63 Mbit/s (88.6% utilization)

95th percentile per-packet one-way delay: 49.620 ms

Loss rate: 0.15%

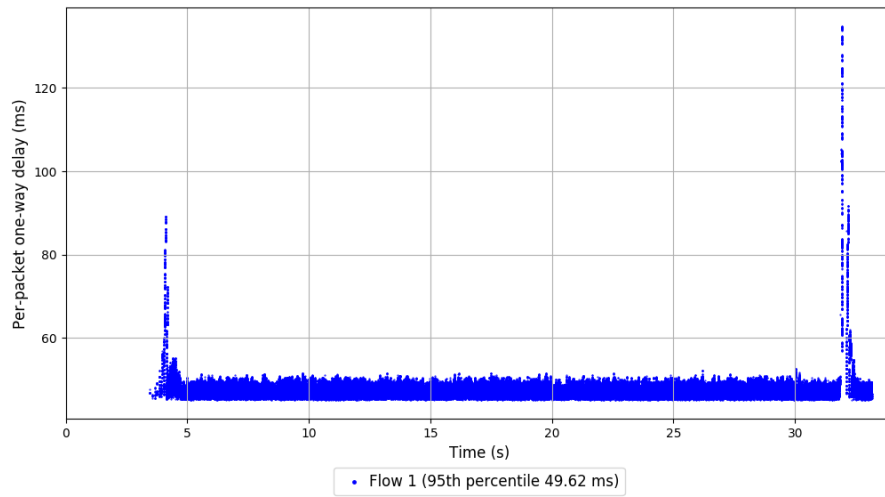
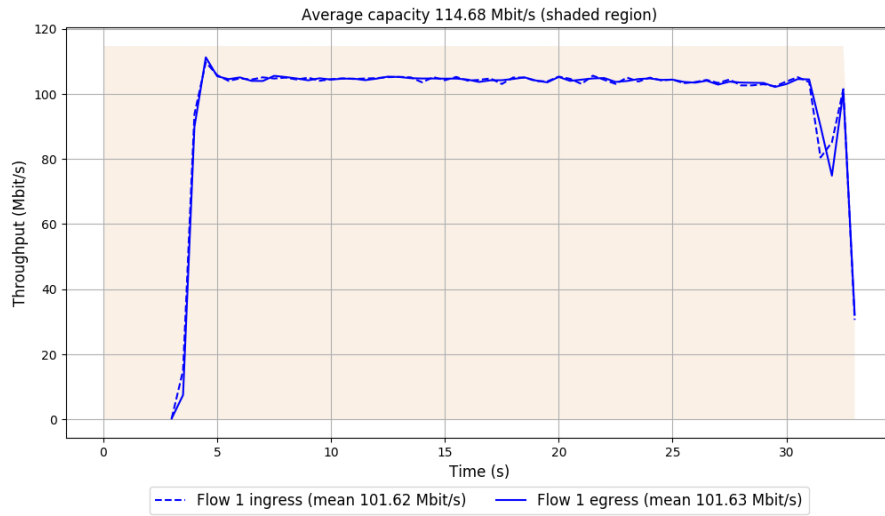
-- Flow 1:

Average throughput: 101.63 Mbit/s

95th percentile per-packet one-way delay: 49.620 ms

Loss rate: 0.15%

Run 7: Report of Indigo-1-32 — Data Link



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-27 07:36:25

End at: 2018-02-27 07:36:55

Below is generated by plot.py at 2018-02-27 08:43:26

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 102.67 Mbit/s (89.5% utilization)

95th percentile per-packet one-way delay: 49.584 ms

Loss rate: 0.19%

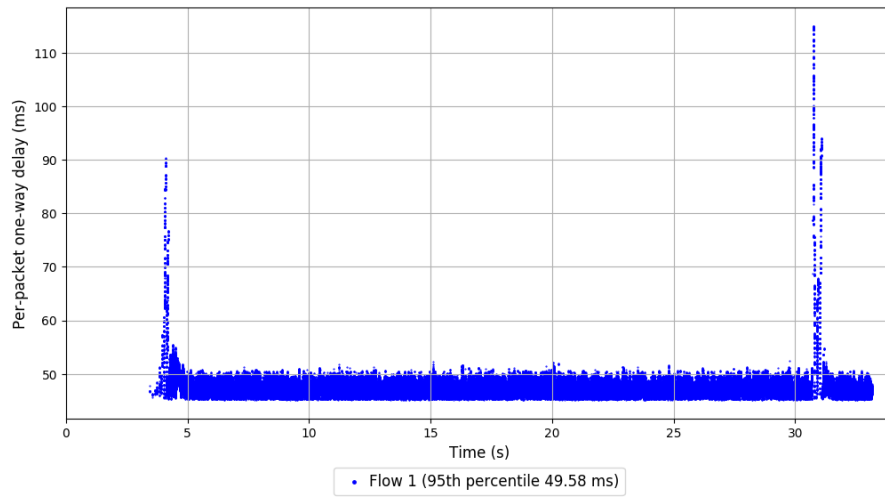
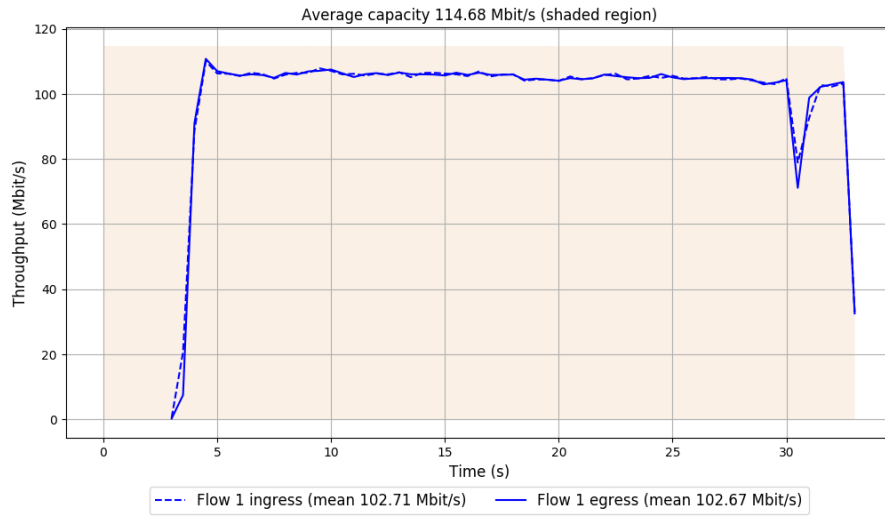
-- Flow 1:

Average throughput: 102.67 Mbit/s

95th percentile per-packet one-way delay: 49.584 ms

Loss rate: 0.19%

Run 8: Report of Indigo-1-32 — Data Link



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-27 07:48:19

End at: 2018-02-27 07:48:49

Below is generated by plot.py at 2018-02-27 08:43:29

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 104.39 Mbit/s (91.0% utilization)

95th percentile per-packet one-way delay: 49.394 ms

Loss rate: 0.17%

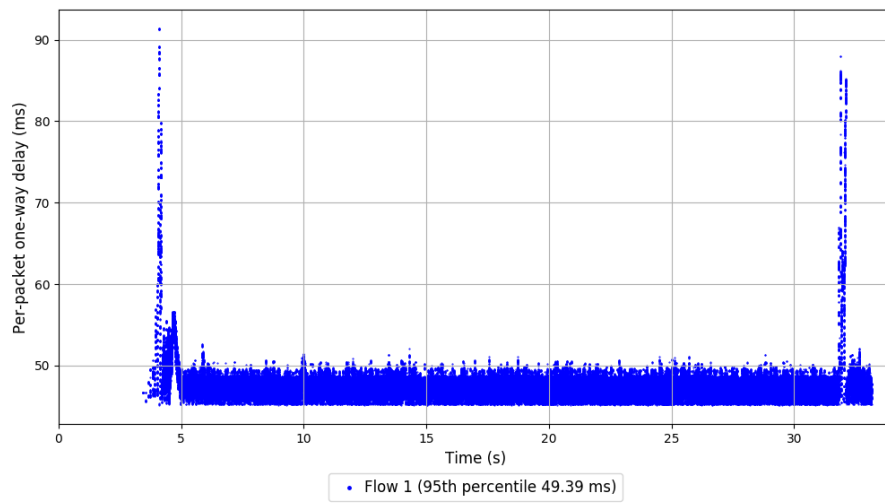
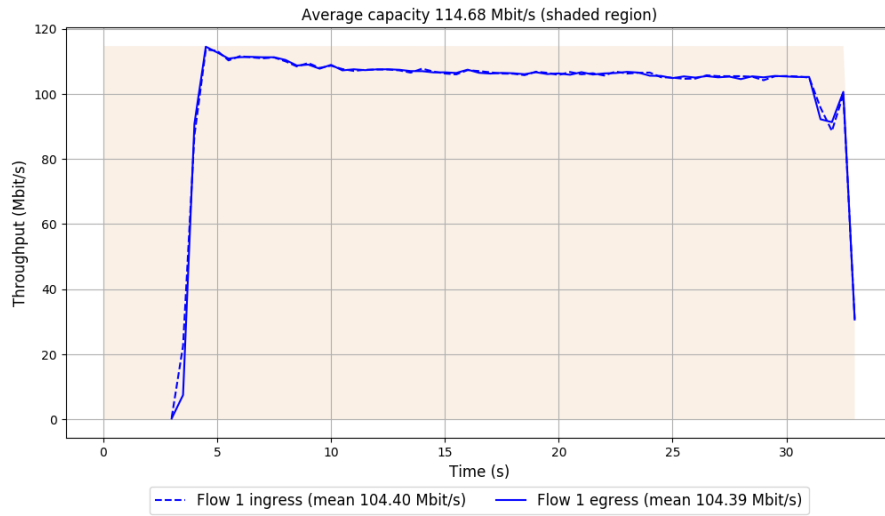
-- Flow 1:

Average throughput: 104.39 Mbit/s

95th percentile per-packet one-way delay: 49.394 ms

Loss rate: 0.17%

Run 9: Report of Indigo-1-32 — Data Link



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-27 08:00:10

End at: 2018-02-27 08:00:40

Below is generated by plot.py at 2018-02-27 08:43:34

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 104.91 Mbit/s (91.5% utilization)

95th percentile per-packet one-way delay: 49.962 ms

Loss rate: 0.17%

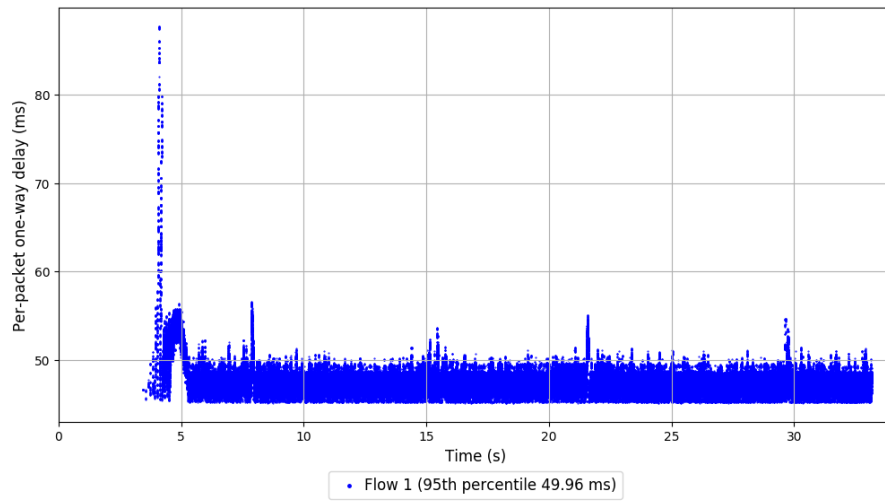
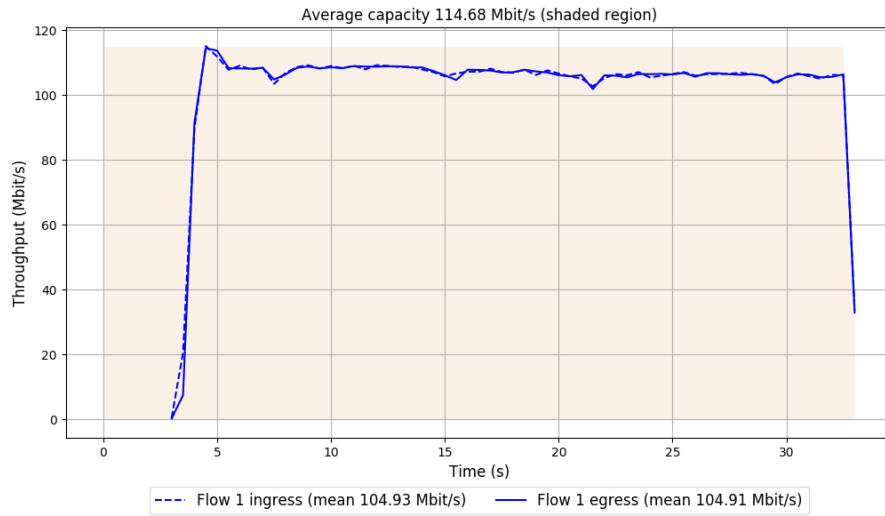
-- Flow 1:

Average throughput: 104.91 Mbit/s

95th percentile per-packet one-way delay: 49.962 ms

Loss rate: 0.17%

Run 10: Report of Indigo-1-32 — Data Link



Run 1: Statistics of Vivace-latency

Start at: 2018-02-27 06:18:12

End at: 2018-02-27 06:18:42

Below is generated by plot.py at 2018-02-27 08:43:41

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 102.00 Mbit/s (88.9% utilization)

95th percentile per-packet one-way delay: 48.090 ms

Loss rate: 0.85%

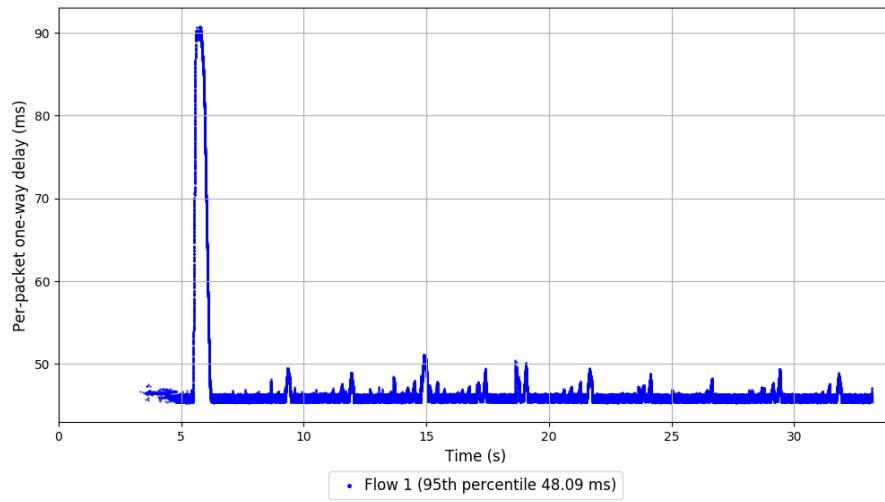
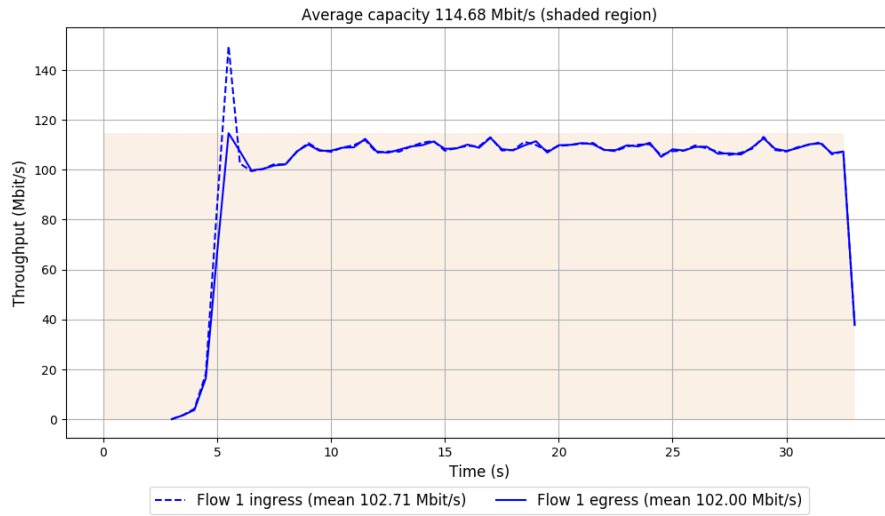
-- Flow 1:

Average throughput: 102.00 Mbit/s

95th percentile per-packet one-way delay: 48.090 ms

Loss rate: 0.85%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-27 06:30:04

End at: 2018-02-27 06:30:34

Below is generated by plot.py at 2018-02-27 08:43:44

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 101.67 Mbit/s (88.6% utilization)

95th percentile per-packet one-way delay: 48.304 ms

Loss rate: 0.83%

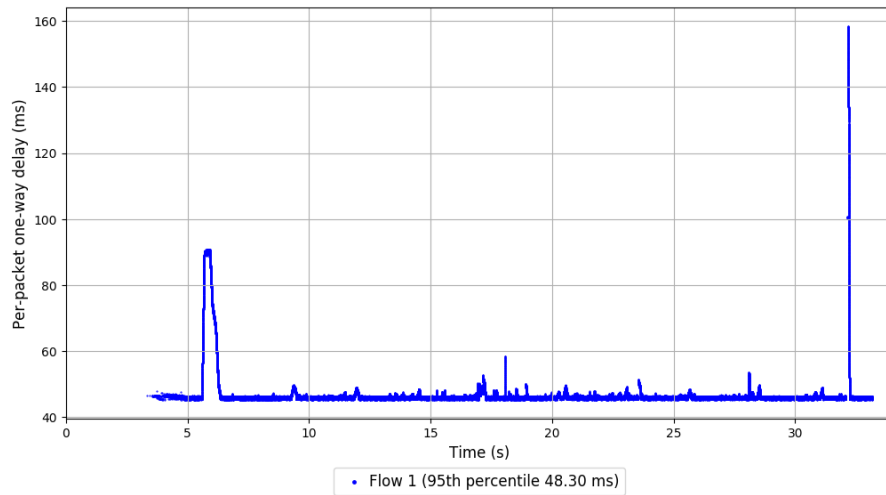
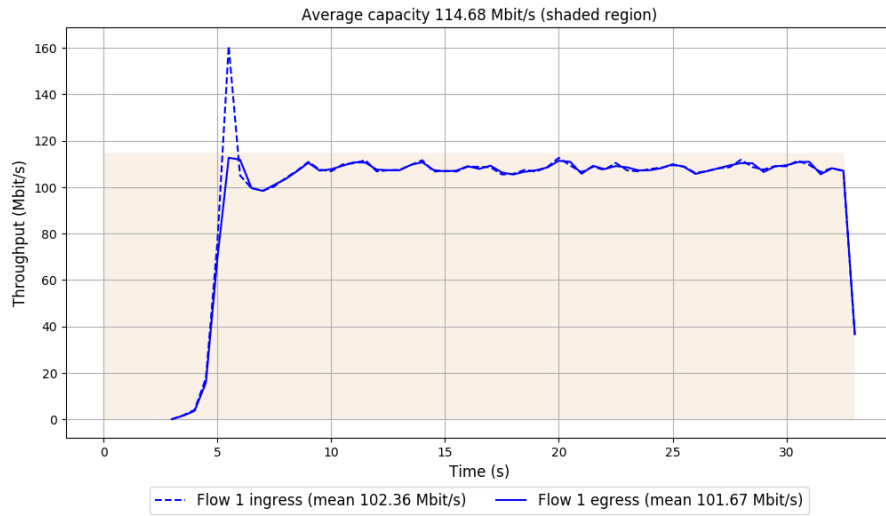
-- Flow 1:

Average throughput: 101.67 Mbit/s

95th percentile per-packet one-way delay: 48.304 ms

Loss rate: 0.83%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-27 06:41:56

End at: 2018-02-27 06:42:26

Below is generated by plot.py at 2018-02-27 08:45:10

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 102.28 Mbit/s (89.2% utilization)

95th percentile per-packet one-way delay: 49.774 ms

Loss rate: 0.84%

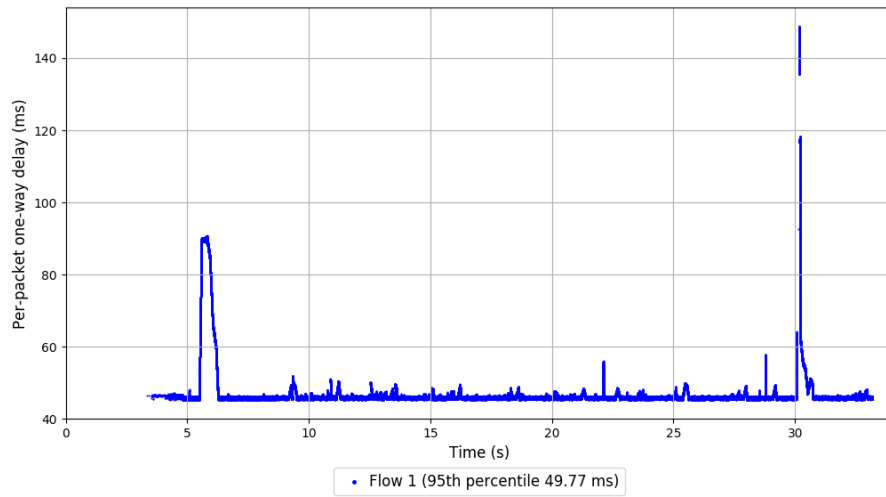
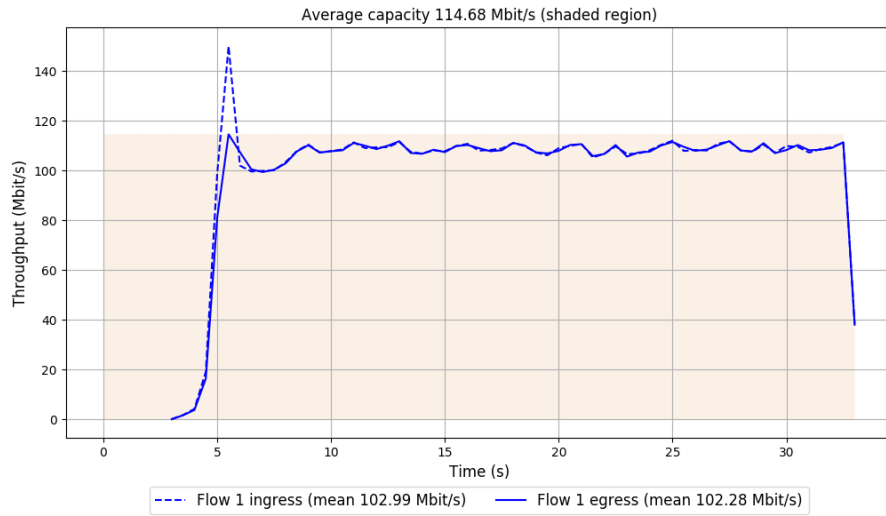
-- Flow 1:

Average throughput: 102.28 Mbit/s

95th percentile per-packet one-way delay: 49.774 ms

Loss rate: 0.84%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-27 06:53:47

End at: 2018-02-27 06:54:17

Below is generated by plot.py at 2018-02-27 08:45:30

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 101.06 Mbit/s (88.1% utilization)

95th percentile per-packet one-way delay: 48.127 ms

Loss rate: 0.84%

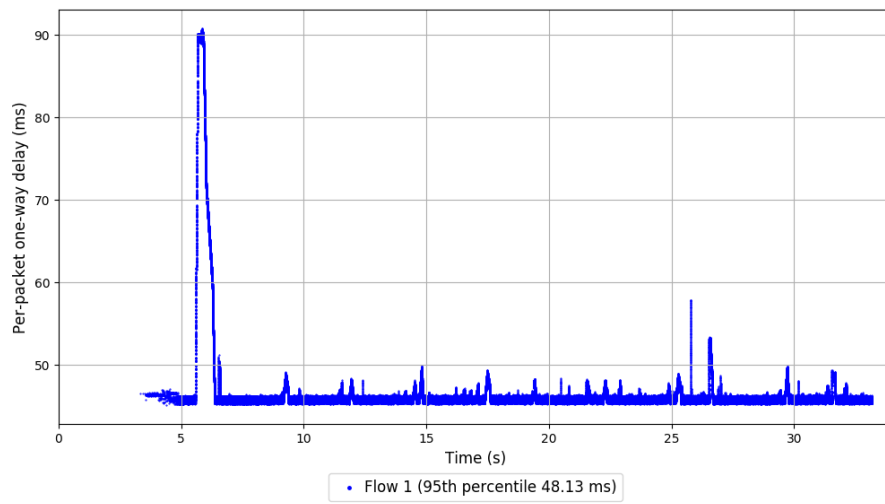
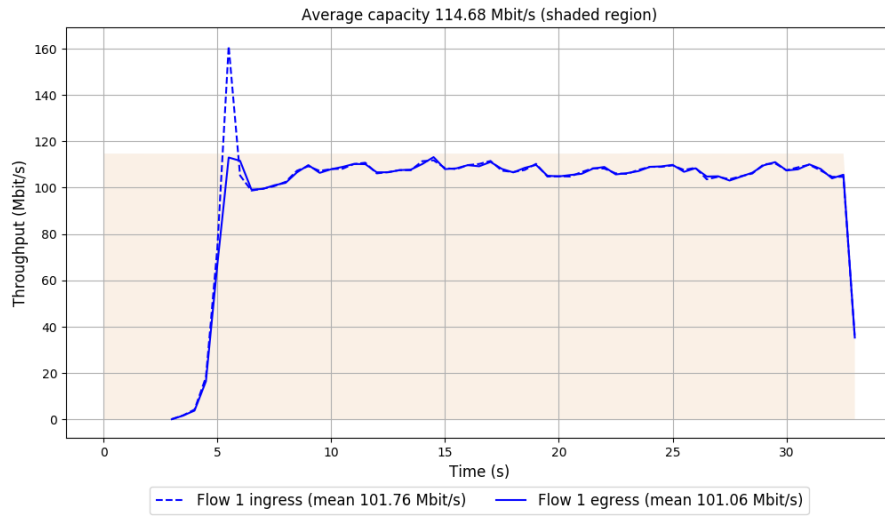
-- Flow 1:

Average throughput: 101.06 Mbit/s

95th percentile per-packet one-way delay: 48.127 ms

Loss rate: 0.84%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-27 07:05:42

End at: 2018-02-27 07:06:12

Below is generated by plot.py at 2018-02-27 08:45:40

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 102.56 Mbit/s (89.4% utilization)

95th percentile per-packet one-way delay: 49.482 ms

Loss rate: 0.83%

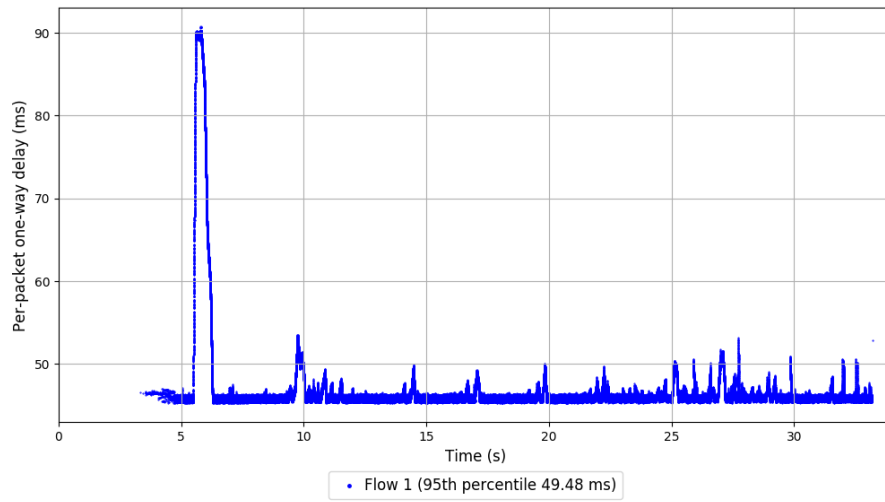
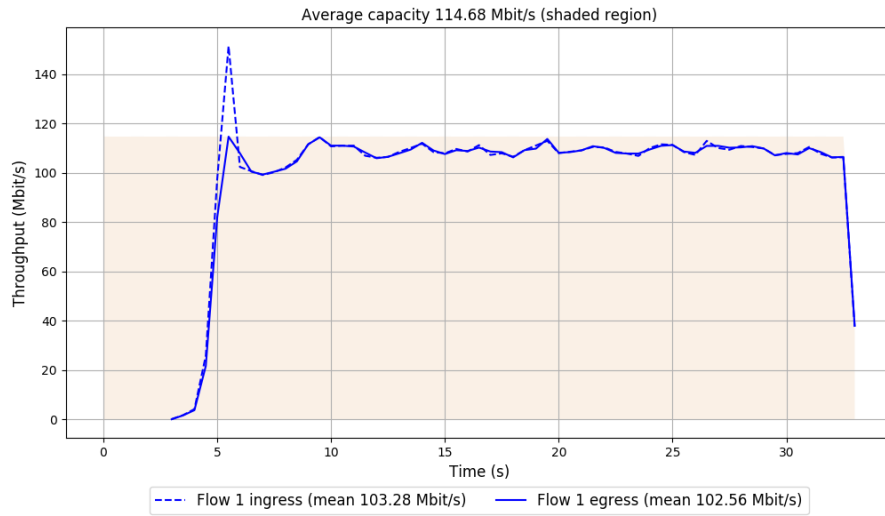
-- Flow 1:

Average throughput: 102.56 Mbit/s

95th percentile per-packet one-way delay: 49.482 ms

Loss rate: 0.83%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-27 07:17:35

End at: 2018-02-27 07:18:05

Below is generated by plot.py at 2018-02-27 08:45:51

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 102.15 Mbit/s (89.1% utilization)

95th percentile per-packet one-way delay: 51.886 ms

Loss rate: 0.86%

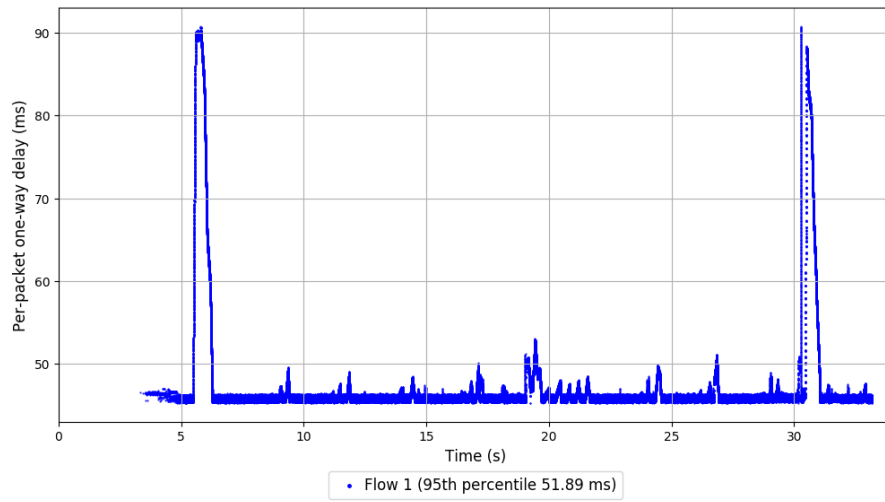
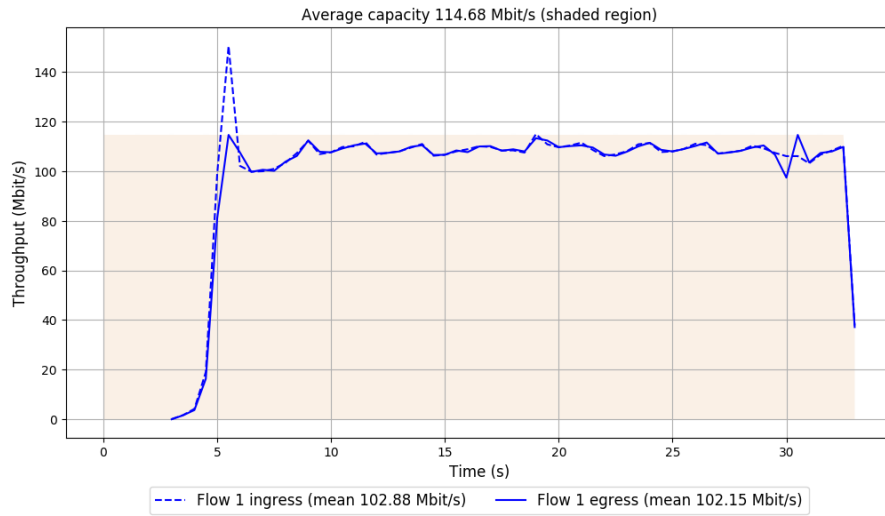
-- Flow 1:

Average throughput: 102.15 Mbit/s

95th percentile per-packet one-way delay: 51.886 ms

Loss rate: 0.86%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-27 07:29:47

End at: 2018-02-27 07:30:17

Below is generated by plot.py at 2018-02-27 08:45:53

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 101.90 Mbit/s (88.9% utilization)

95th percentile per-packet one-way delay: 47.997 ms

Loss rate: 0.85%

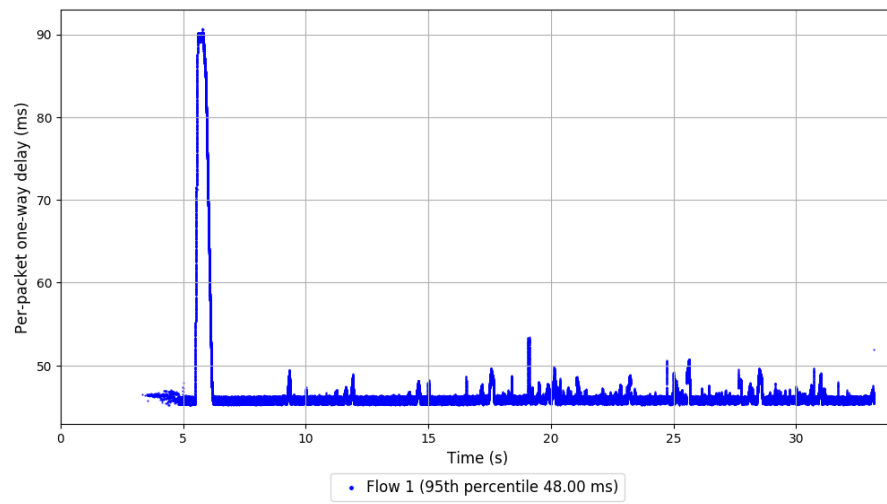
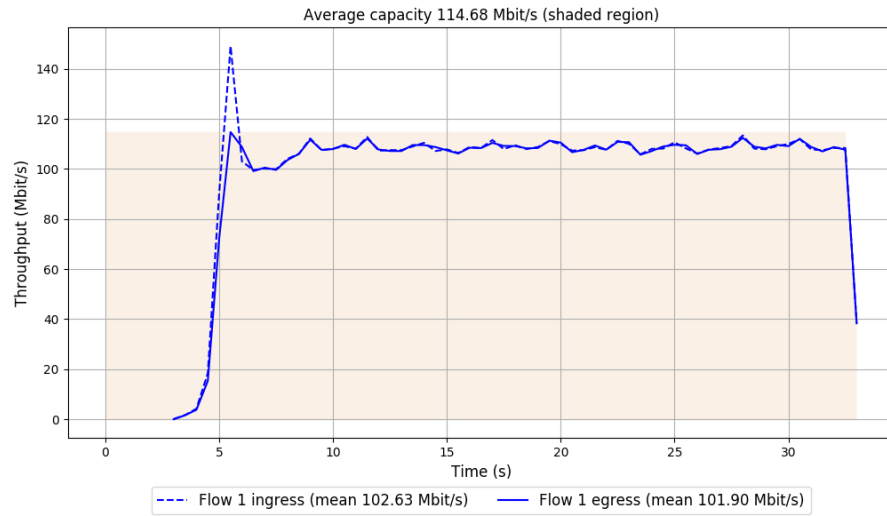
-- Flow 1:

Average throughput: 101.90 Mbit/s

95th percentile per-packet one-way delay: 47.997 ms

Loss rate: 0.85%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-27 07:41:40

End at: 2018-02-27 07:42:10

Below is generated by plot.py at 2018-02-27 08:45:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 101.41 Mbit/s (88.4% utilization)

95th percentile per-packet one-way delay: 48.889 ms

Loss rate: 0.85%

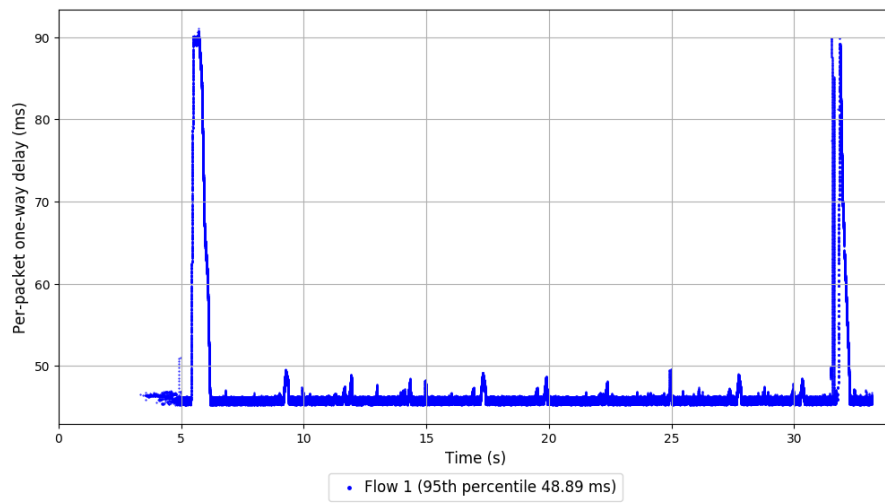
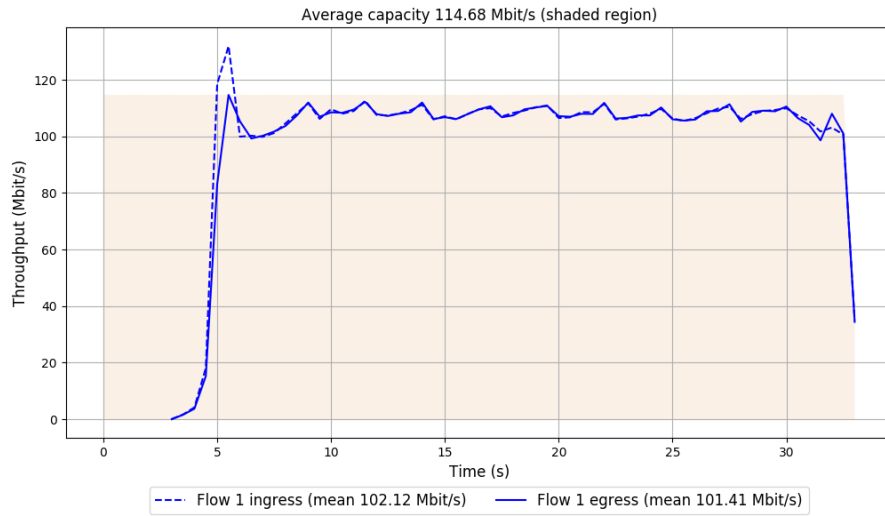
-- Flow 1:

Average throughput: 101.41 Mbit/s

95th percentile per-packet one-way delay: 48.889 ms

Loss rate: 0.85%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-27 07:53:33

End at: 2018-02-27 07:54:03

Below is generated by plot.py at 2018-02-27 08:46:06

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 101.59 Mbit/s (88.6% utilization)

95th percentile per-packet one-way delay: 48.192 ms

Loss rate: 0.95%

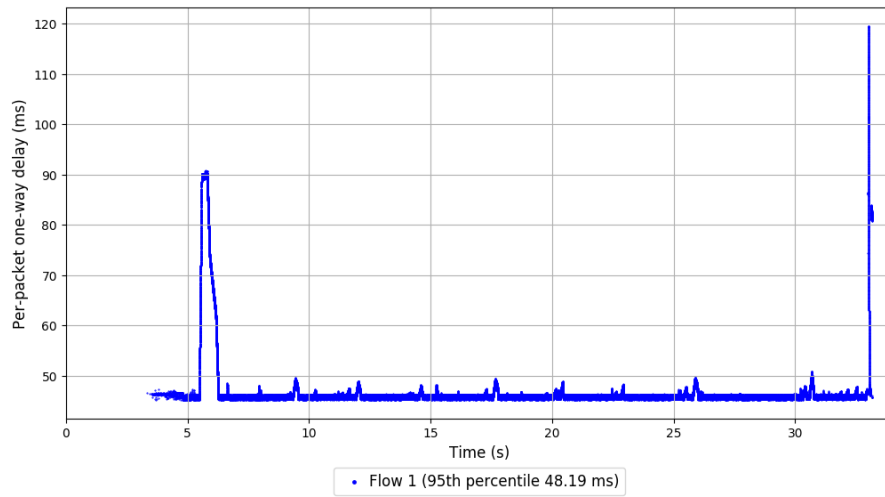
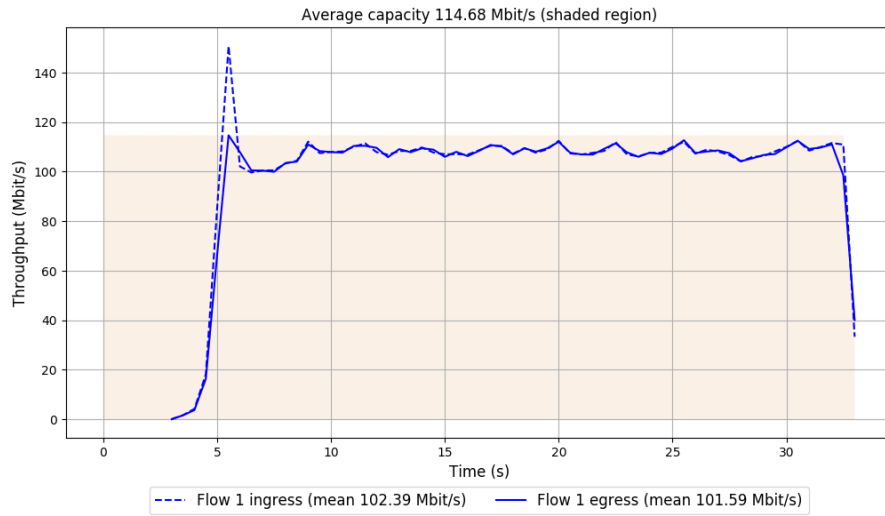
-- Flow 1:

Average throughput: 101.59 Mbit/s

95th percentile per-packet one-way delay: 48.192 ms

Loss rate: 0.95%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-27 08:05:24

End at: 2018-02-27 08:05:54

Below is generated by plot.py at 2018-02-27 08:46:10

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 101.87 Mbit/s (88.8% utilization)

95th percentile per-packet one-way delay: 64.823 ms

Loss rate: 0.86%

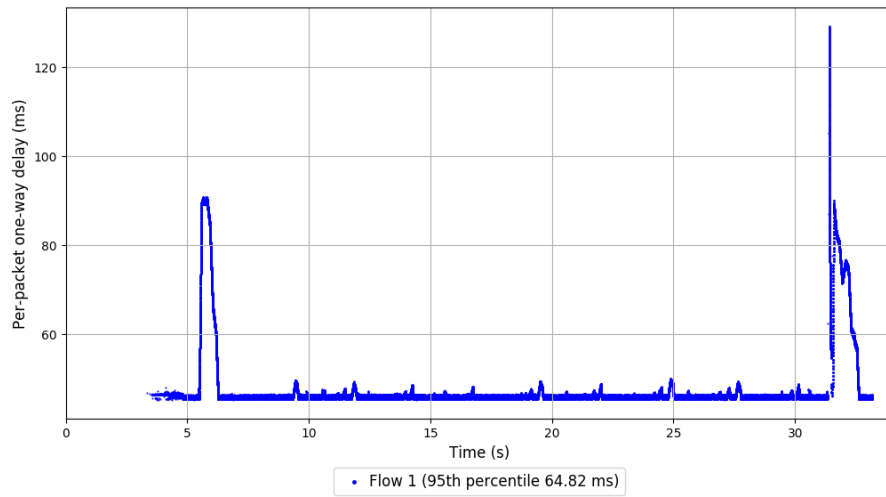
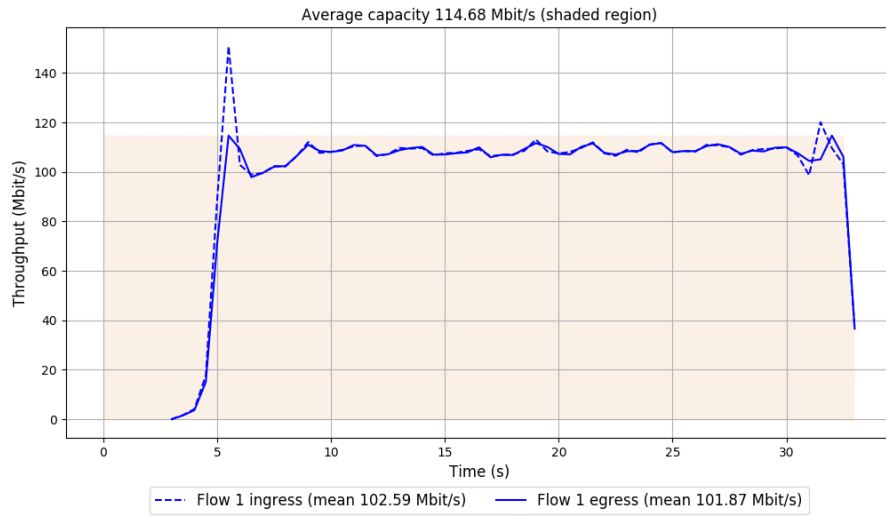
-- Flow 1:

Average throughput: 101.87 Mbit/s

95th percentile per-packet one-way delay: 64.823 ms

Loss rate: 0.86%

Run 10: Report of Vivace-latency — Data Link



Run 1: Statistics of Vivace-loss

Start at: 2018-02-27 06:13:39

End at: 2018-02-27 06:14:09

Below is generated by plot.py at 2018-02-27 08:47:48

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 107.41 Mbit/s (93.7% utilization)

95th percentile per-packet one-way delay: 89.839 ms

Loss rate: 1.91%

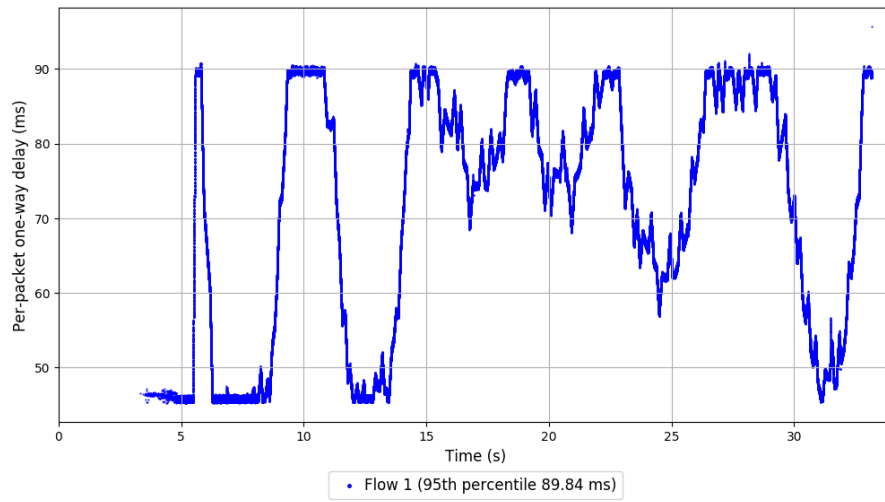
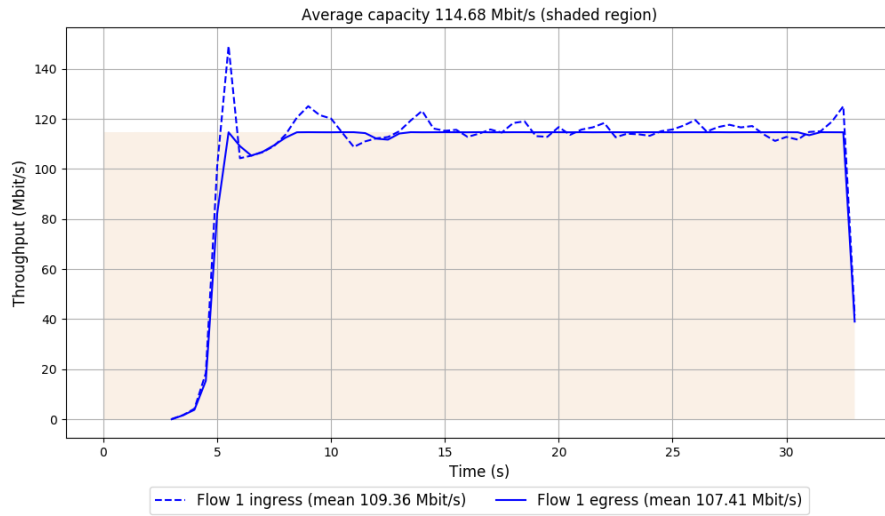
-- Flow 1:

Average throughput: 107.41 Mbit/s

95th percentile per-packet one-way delay: 89.839 ms

Loss rate: 1.91%

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-27 06:25:29

End at: 2018-02-27 06:25:59

Below is generated by plot.py at 2018-02-27 08:48:00

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 107.23 Mbit/s (93.5% utilization)

95th percentile per-packet one-way delay: 89.930 ms

Loss rate: 2.26%

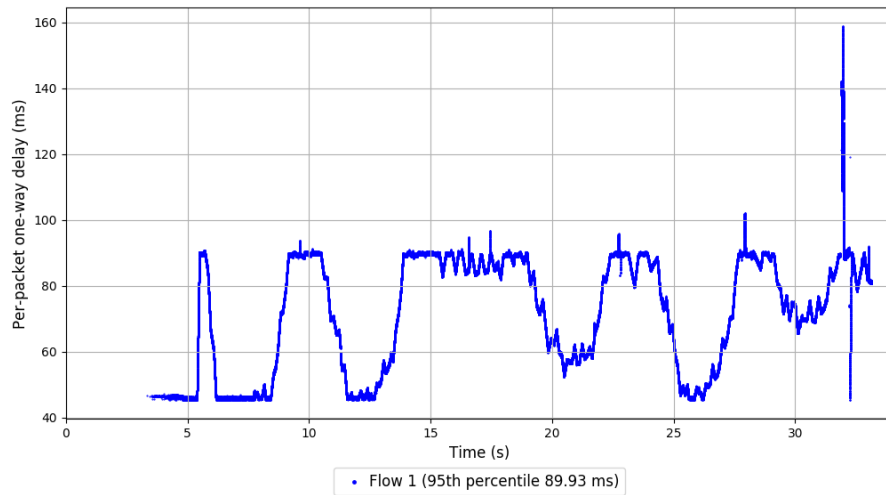
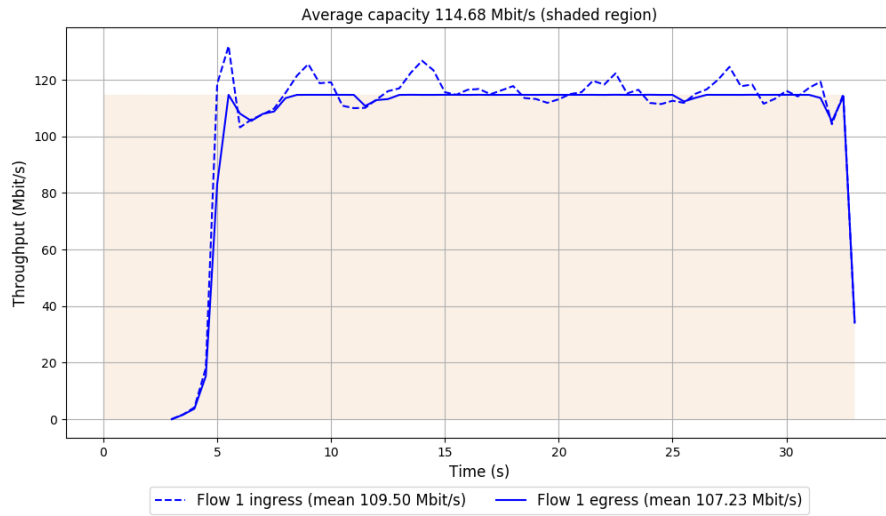
-- Flow 1:

Average throughput: 107.23 Mbit/s

95th percentile per-packet one-way delay: 89.930 ms

Loss rate: 2.26%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-27 06:37:22

End at: 2018-02-27 06:37:52

Below is generated by plot.py at 2018-02-27 08:48:11

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 107.28 Mbit/s (93.5% utilization)

95th percentile per-packet one-way delay: 89.726 ms

Loss rate: 1.91%

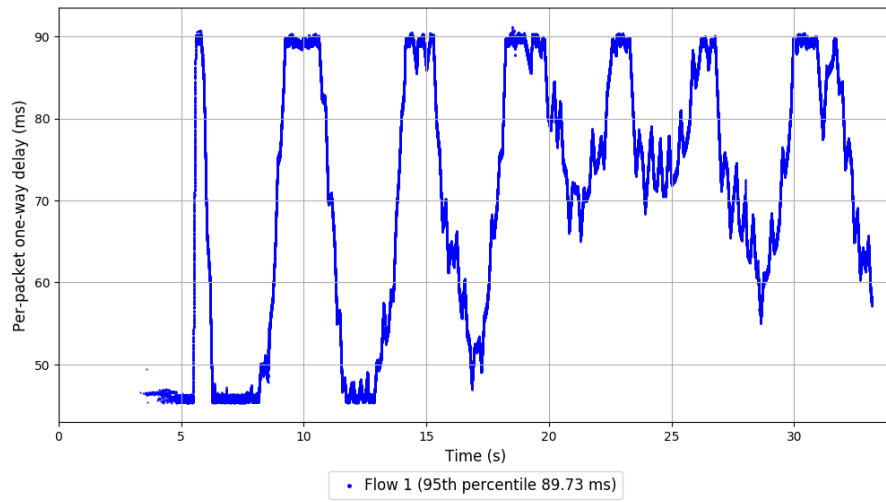
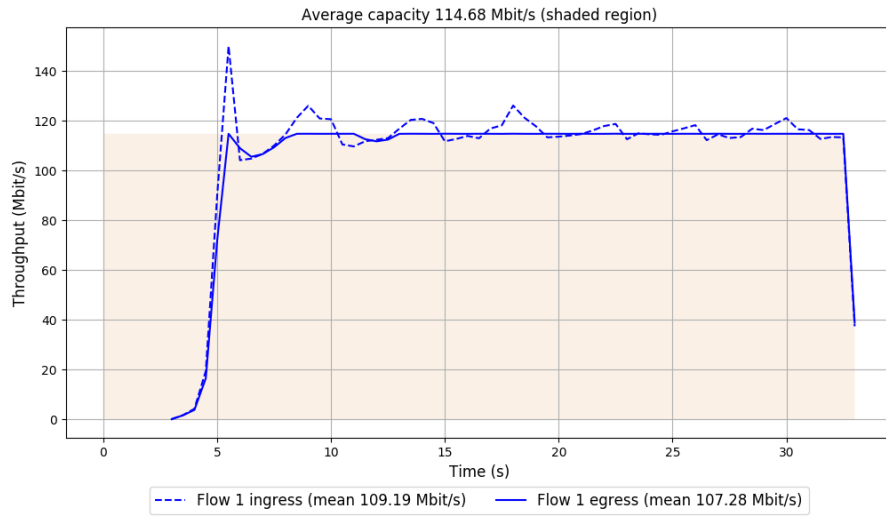
-- Flow 1:

Average throughput: 107.28 Mbit/s

95th percentile per-packet one-way delay: 89.726 ms

Loss rate: 1.91%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-27 06:49:15

End at: 2018-02-27 06:49:45

Below is generated by plot.py at 2018-02-27 08:48:21

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 106.70 Mbit/s (93.0% utilization)

95th percentile per-packet one-way delay: 89.896 ms

Loss rate: 2.00%

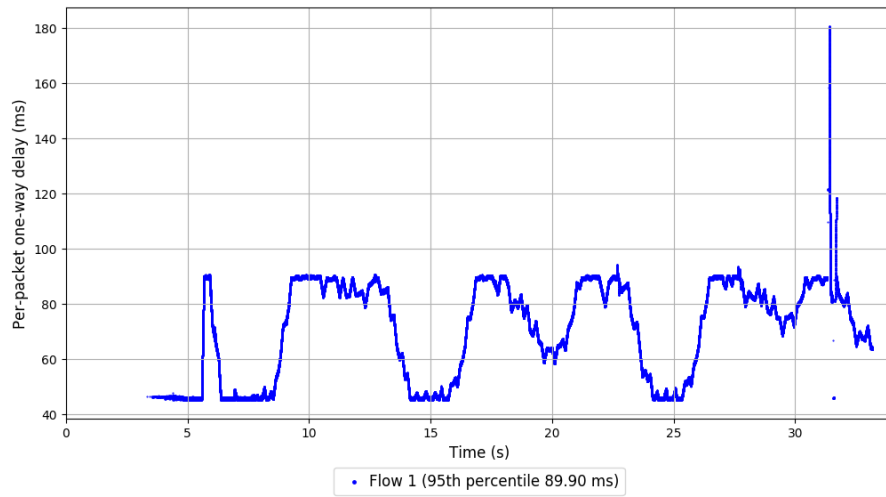
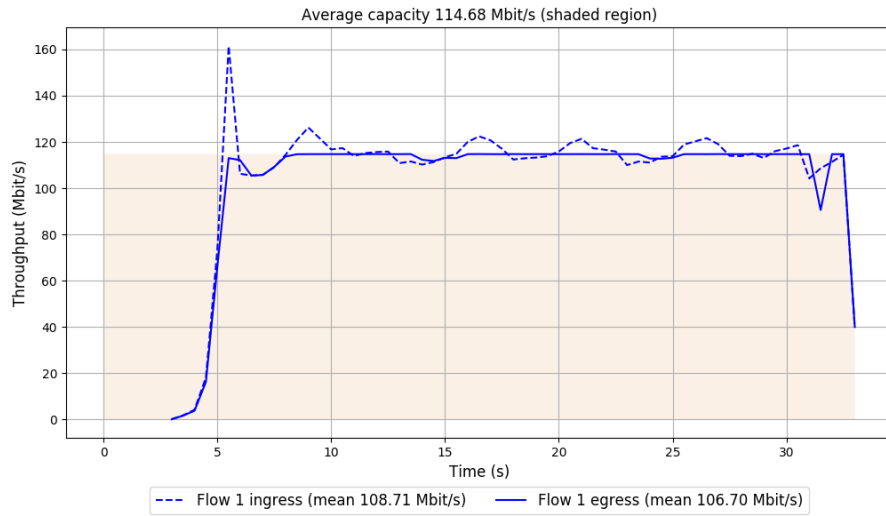
-- Flow 1:

Average throughput: 106.70 Mbit/s

95th percentile per-packet one-way delay: 89.896 ms

Loss rate: 2.00%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-27 07:01:05

End at: 2018-02-27 07:01:35

Below is generated by plot.py at 2018-02-27 08:48:23

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 107.56 Mbit/s (93.8% utilization)

95th percentile per-packet one-way delay: 89.790 ms

Loss rate: 1.66%

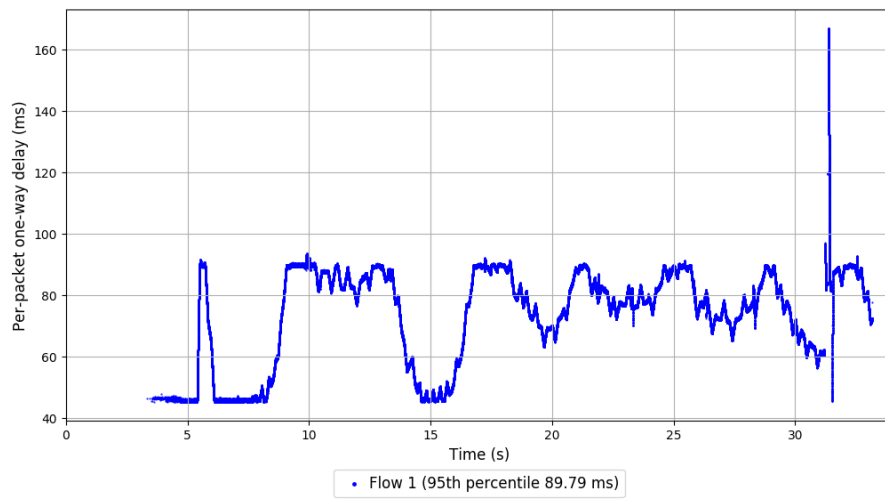
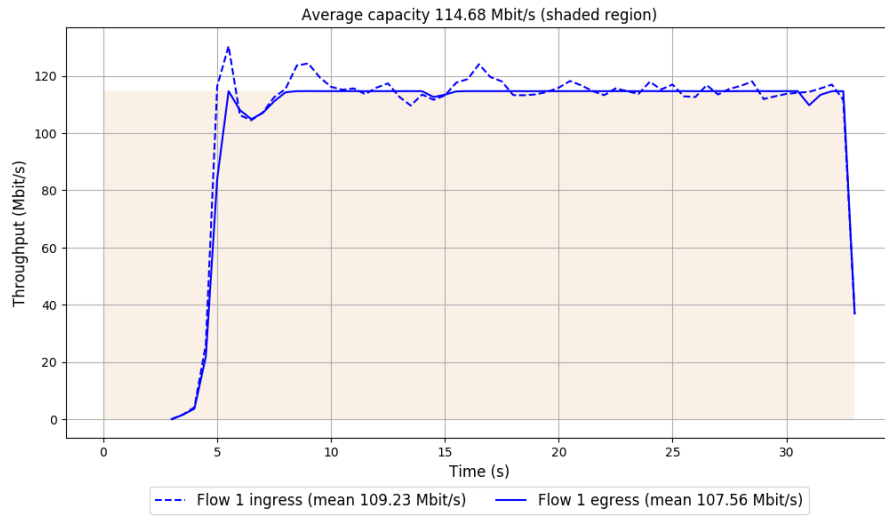
-- Flow 1:

Average throughput: 107.56 Mbit/s

95th percentile per-packet one-way delay: 89.790 ms

Loss rate: 1.66%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-27 07:13:00

End at: 2018-02-27 07:13:30

Below is generated by plot.py at 2018-02-27 08:48:26

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 106.64 Mbit/s (93.0% utilization)

95th percentile per-packet one-way delay: 89.779 ms

Loss rate: 1.85%

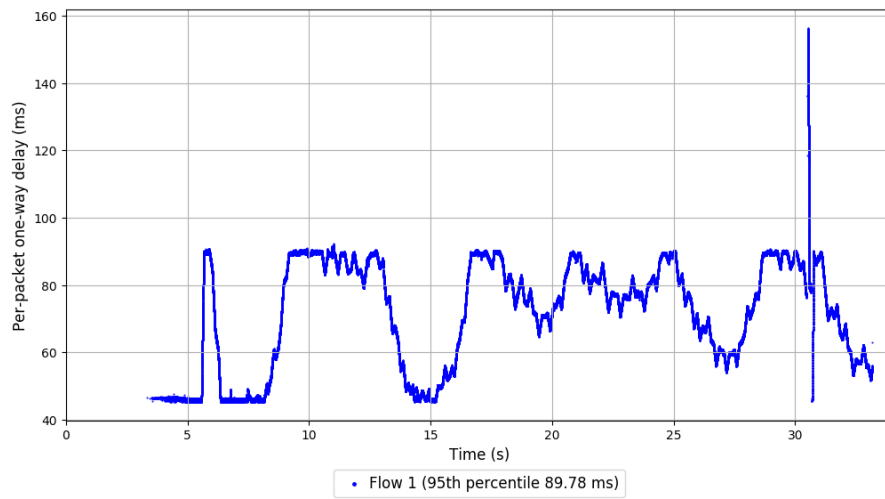
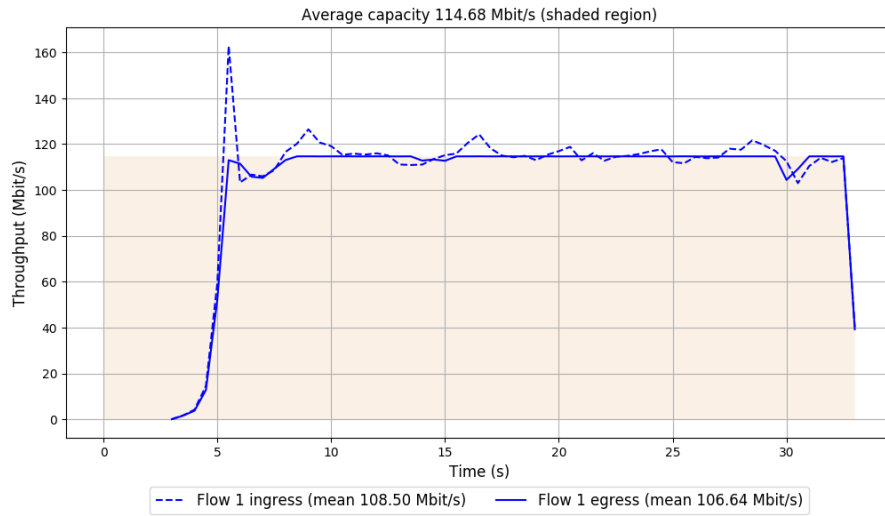
-- Flow 1:

Average throughput: 106.64 Mbit/s

95th percentile per-packet one-way delay: 89.779 ms

Loss rate: 1.85%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-27 07:24:53

End at: 2018-02-27 07:25:23

Below is generated by plot.py at 2018-02-27 08:48:37

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 106.63 Mbit/s (93.0% utilization)

95th percentile per-packet one-way delay: 89.868 ms

Loss rate: 1.97%

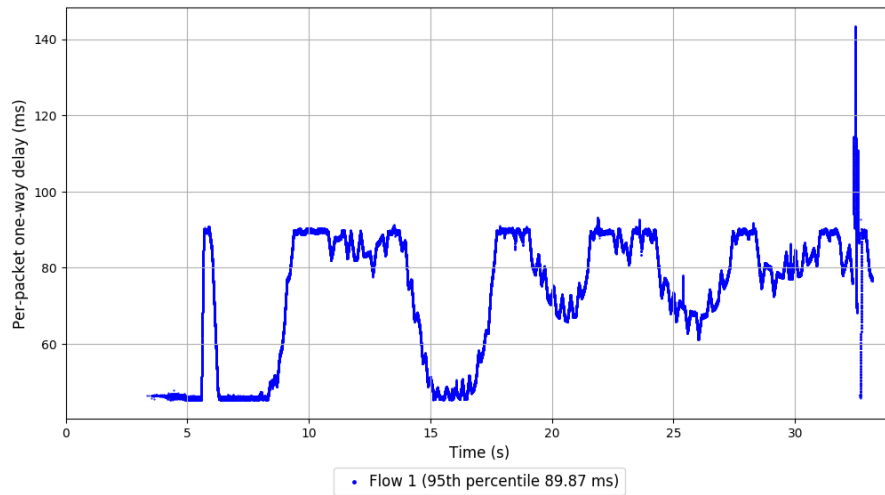
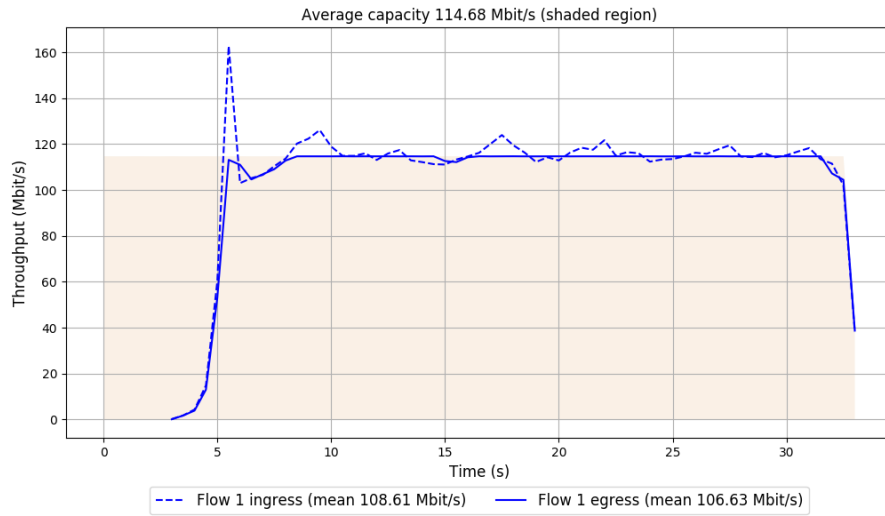
-- Flow 1:

Average throughput: 106.63 Mbit/s

95th percentile per-packet one-way delay: 89.868 ms

Loss rate: 1.97%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-27 07:37:07

End at: 2018-02-27 07:37:37

Below is generated by plot.py at 2018-02-27 08:48:43

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 107.49 Mbit/s (93.7% utilization)

95th percentile per-packet one-way delay: 89.856 ms

Loss rate: 2.01%

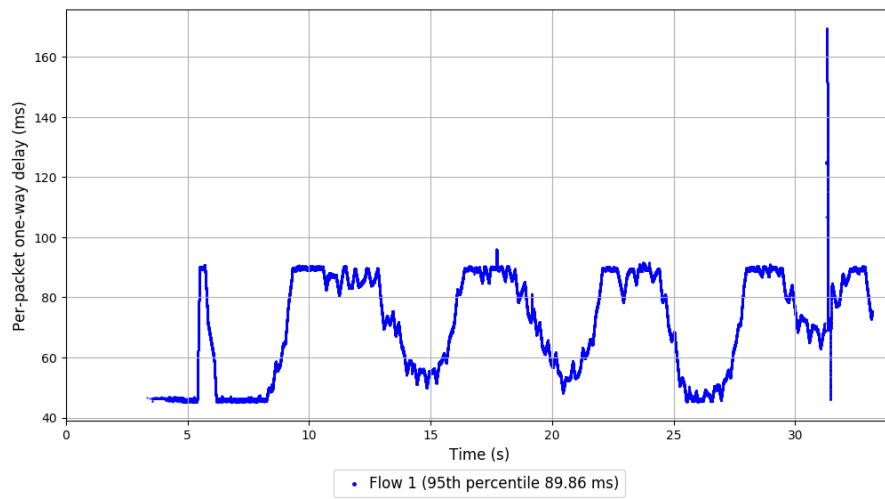
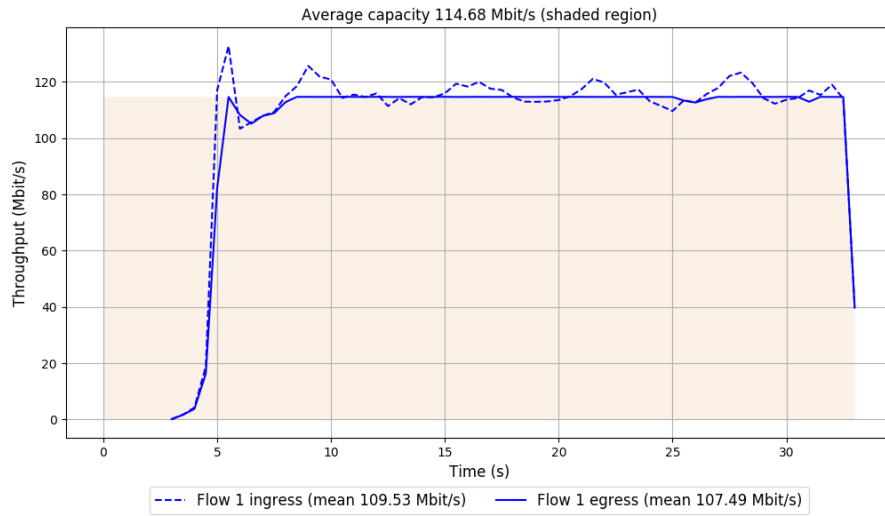
-- Flow 1:

Average throughput: 107.49 Mbit/s

95th percentile per-packet one-way delay: 89.856 ms

Loss rate: 2.01%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-27 07:49:00

End at: 2018-02-27 07:49:30

Below is generated by plot.py at 2018-02-27 08:50:22

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 107.01 Mbit/s (93.3% utilization)

95th percentile per-packet one-way delay: 89.670 ms

Loss rate: 1.88%

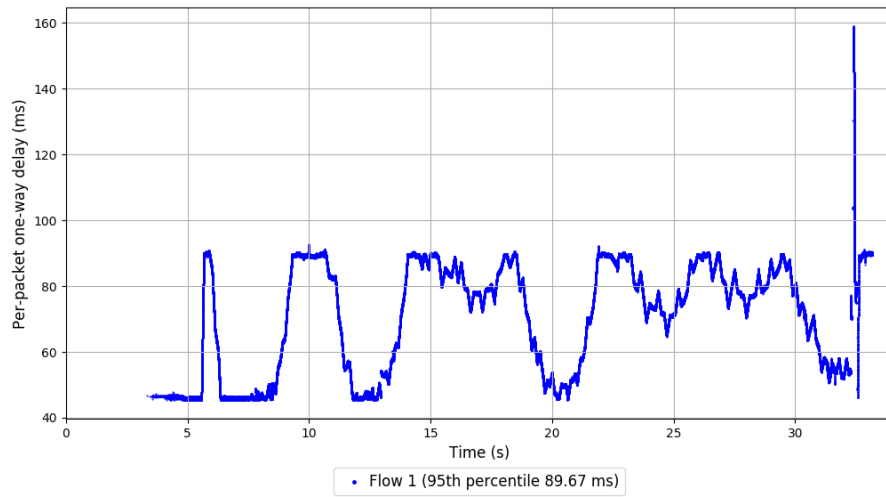
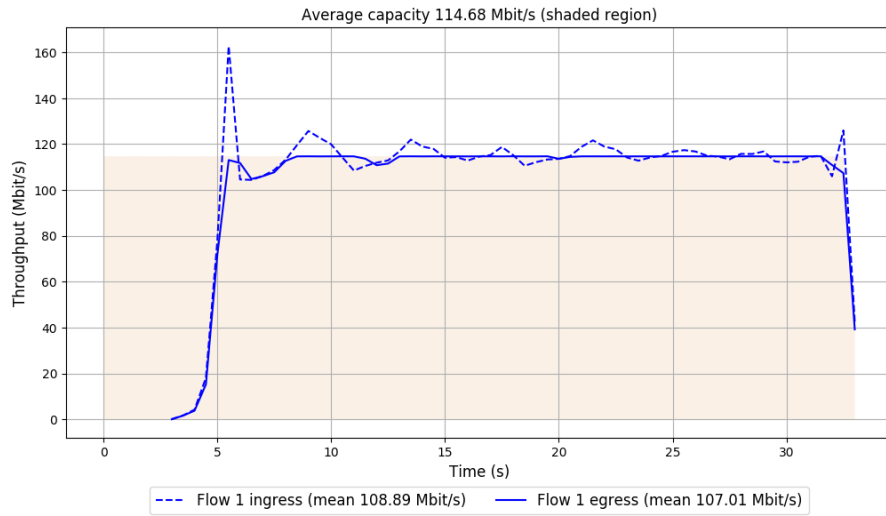
-- Flow 1:

Average throughput: 107.01 Mbit/s

95th percentile per-packet one-way delay: 89.670 ms

Loss rate: 1.88%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-27 08:00:51

End at: 2018-02-27 08:01:21

Below is generated by plot.py at 2018-02-27 08:50:27

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 106.62 Mbit/s (93.0% utilization)

95th percentile per-packet one-way delay: 89.763 ms

Loss rate: 1.95%

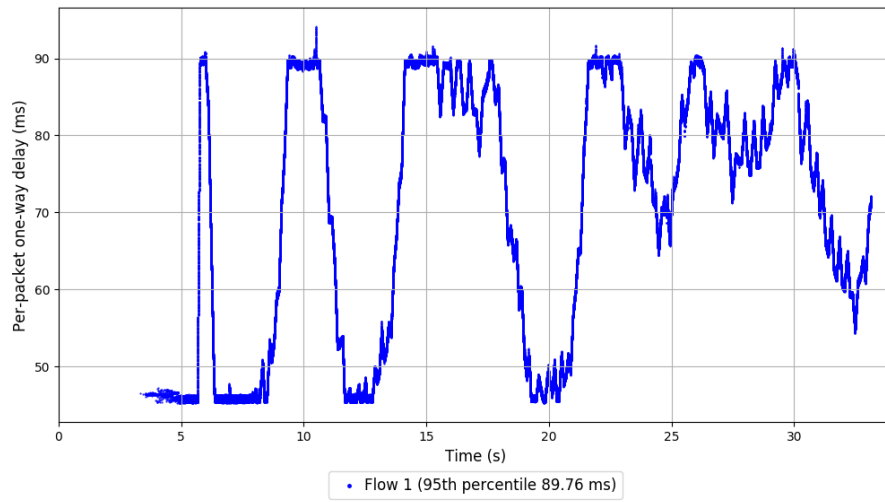
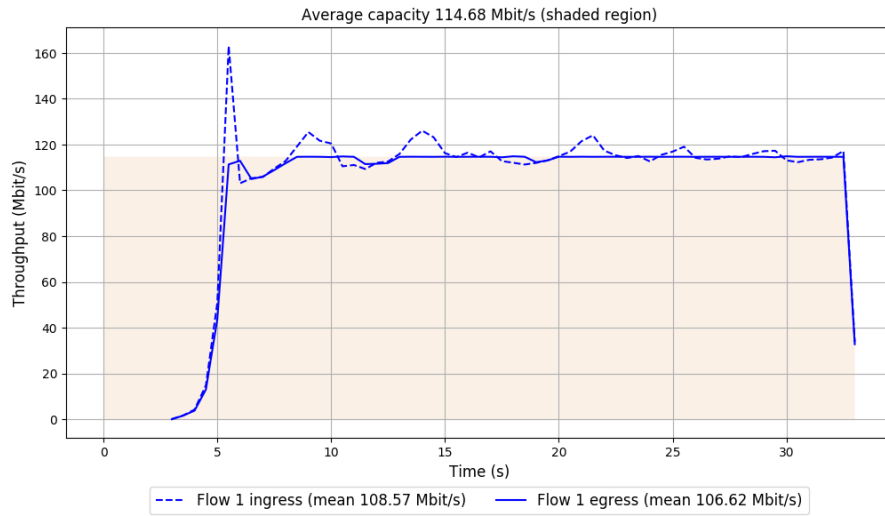
-- Flow 1:

Average throughput: 106.62 Mbit/s

95th percentile per-packet one-way delay: 89.763 ms

Loss rate: 1.95%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-02-27 06:09:07

End at: 2018-02-27 06:09:37

Below is generated by plot.py at 2018-02-27 08:50:37

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 103.32 Mbit/s (90.1% utilization)

95th percentile per-packet one-way delay: 56.385 ms

Loss rate: 0.79%

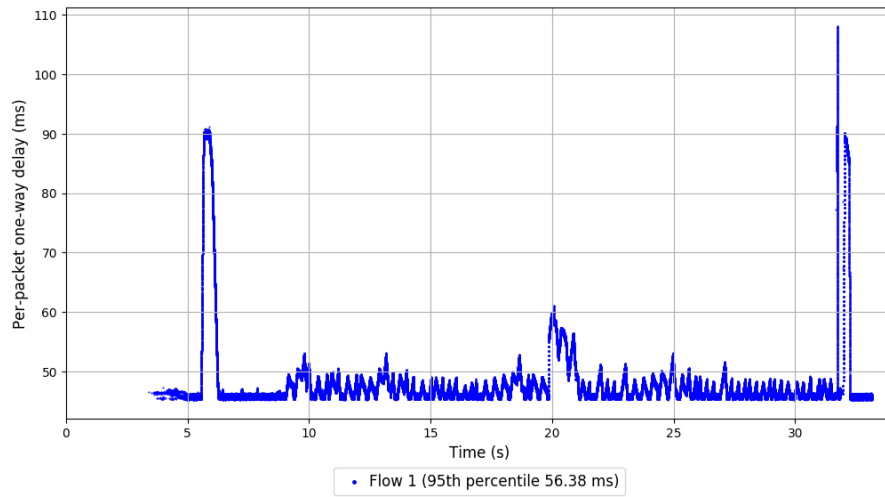
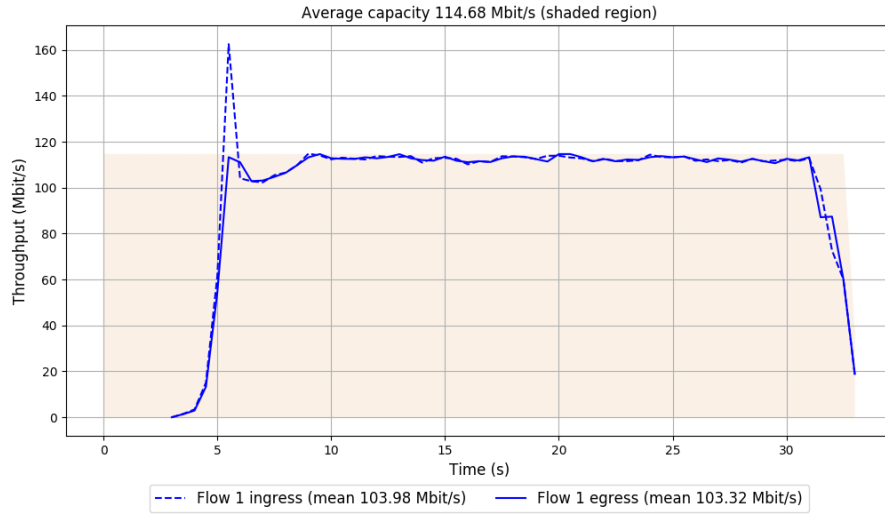
-- Flow 1:

Average throughput: 103.32 Mbit/s

95th percentile per-packet one-way delay: 56.385 ms

Loss rate: 0.79%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-27 06:20:55

End at: 2018-02-27 06:21:25

Below is generated by plot.py at 2018-02-27 08:50:48

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 104.64 Mbit/s (91.2% utilization)

95th percentile per-packet one-way delay: 72.201 ms

Loss rate: 1.05%

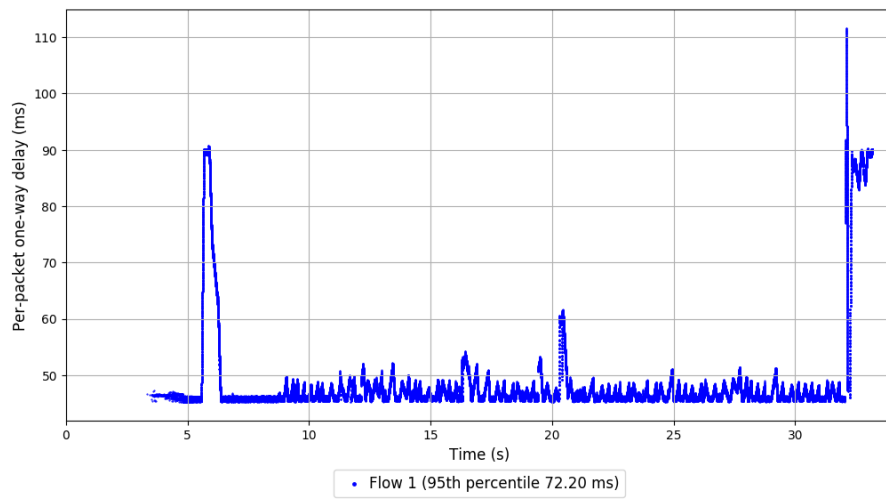
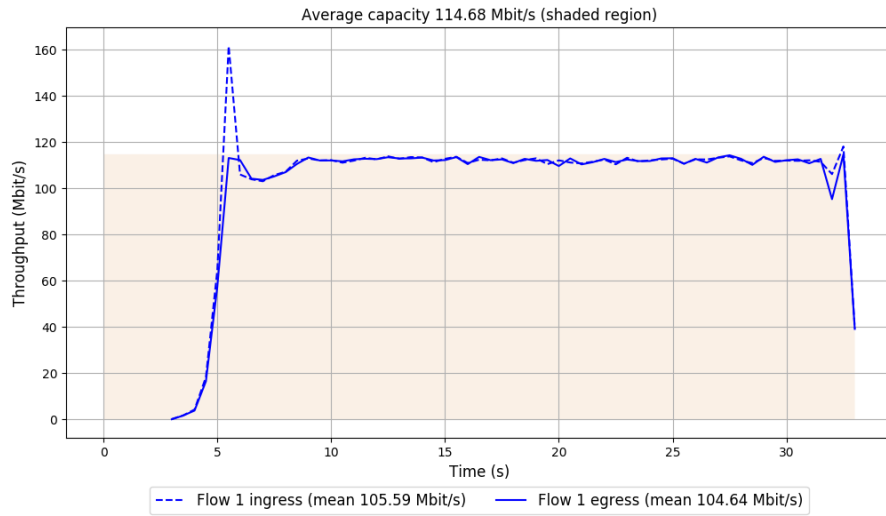
-- Flow 1:

Average throughput: 104.64 Mbit/s

95th percentile per-packet one-way delay: 72.201 ms

Loss rate: 1.05%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-27 06:32:46

End at: 2018-02-27 06:33:16

Below is generated by plot.py at 2018-02-27 08:50:49

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 104.73 Mbit/s (91.3% utilization)

95th percentile per-packet one-way delay: 53.902 ms

Loss rate: 0.85%

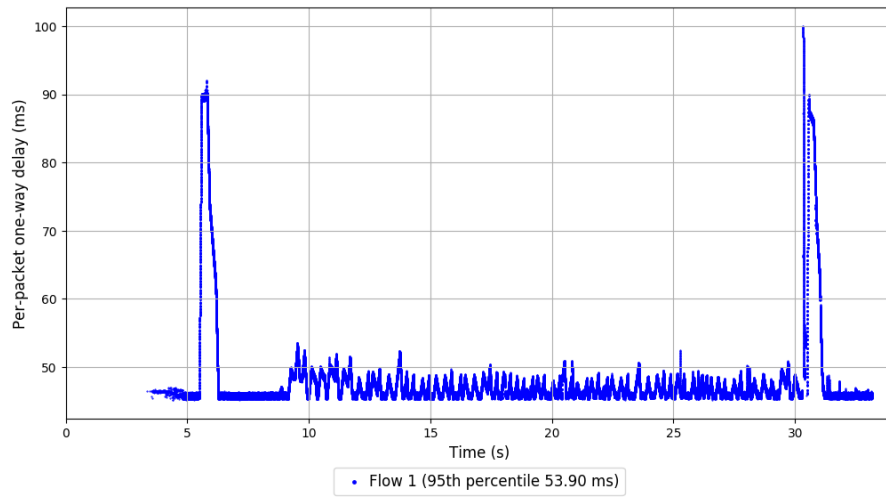
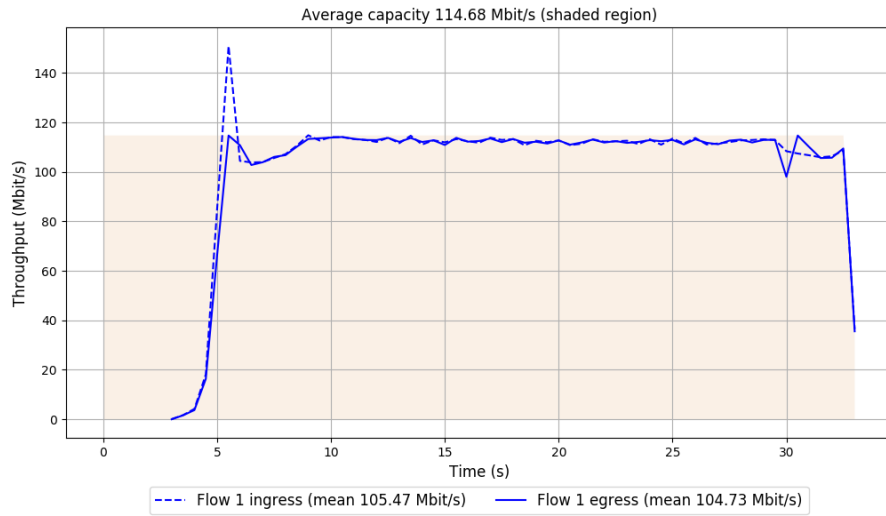
-- Flow 1:

Average throughput: 104.73 Mbit/s

95th percentile per-packet one-way delay: 53.902 ms

Loss rate: 0.85%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-27 06:44:39

End at: 2018-02-27 06:45:09

Below is generated by plot.py at 2018-02-27 08:50:52

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 105.06 Mbit/s (91.6% utilization)

95th percentile per-packet one-way delay: 51.536 ms

Loss rate: 0.97%

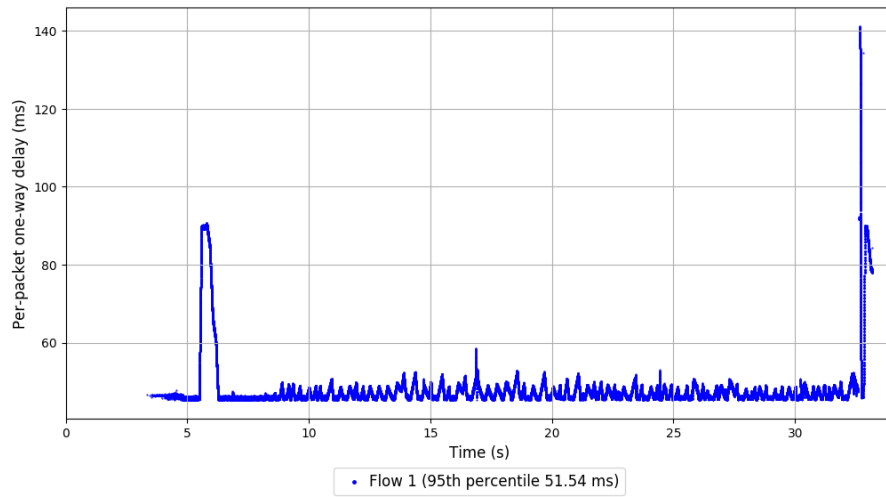
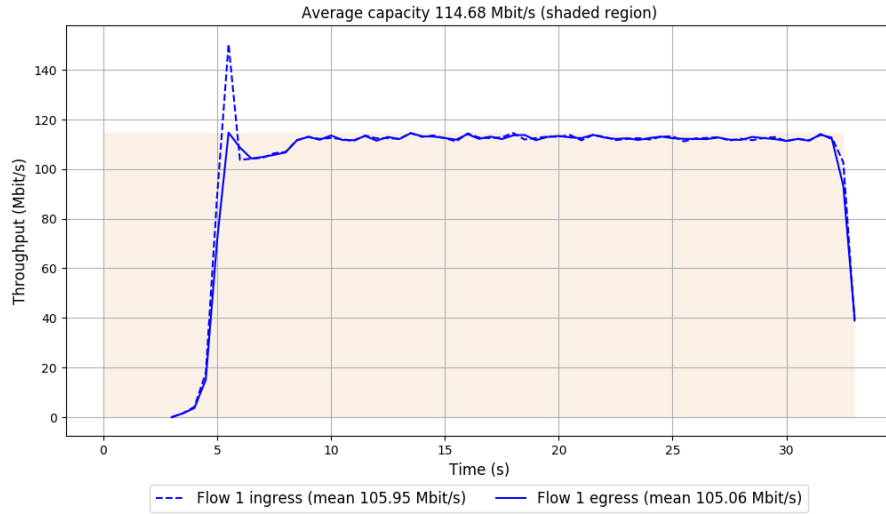
-- Flow 1:

Average throughput: 105.06 Mbit/s

95th percentile per-packet one-way delay: 51.536 ms

Loss rate: 0.97%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-27 06:56:30

End at: 2018-02-27 06:57:00

Below is generated by plot.py at 2018-02-27 08:51:03

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 105.71 Mbit/s (92.2% utilization)

95th percentile per-packet one-way delay: 64.626 ms

Loss rate: 0.96%

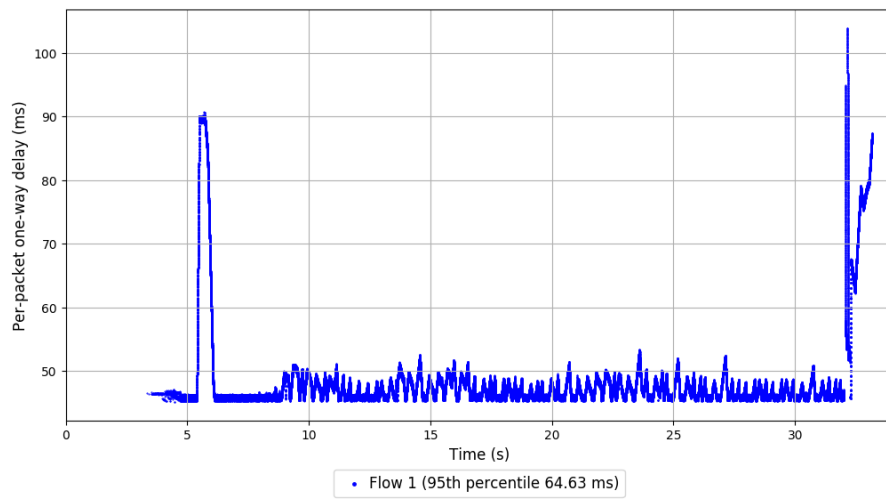
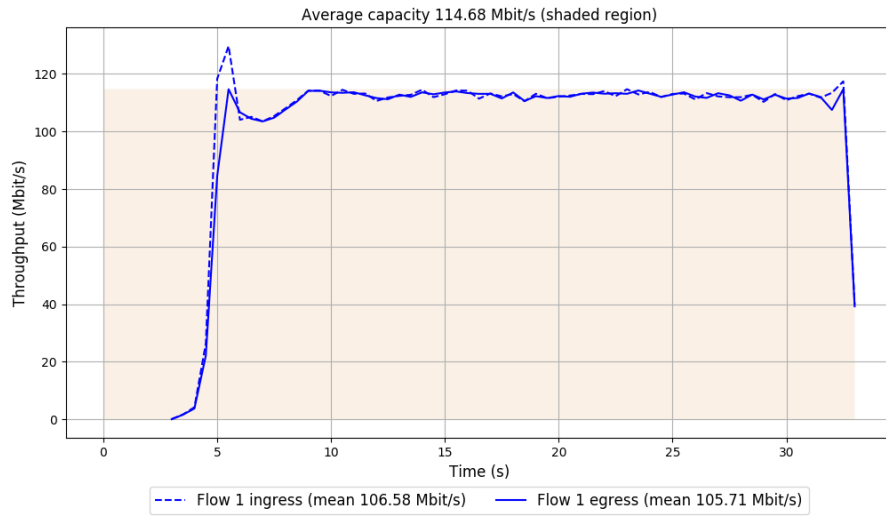
-- Flow 1:

Average throughput: 105.71 Mbit/s

95th percentile per-packet one-way delay: 64.626 ms

Loss rate: 0.96%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-27 07:08:25

End at: 2018-02-27 07:08:55

Below is generated by plot.py at 2018-02-27 08:51:03

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 102.88 Mbit/s (89.7% utilization)

95th percentile per-packet one-way delay: 51.753 ms

Loss rate: 0.78%

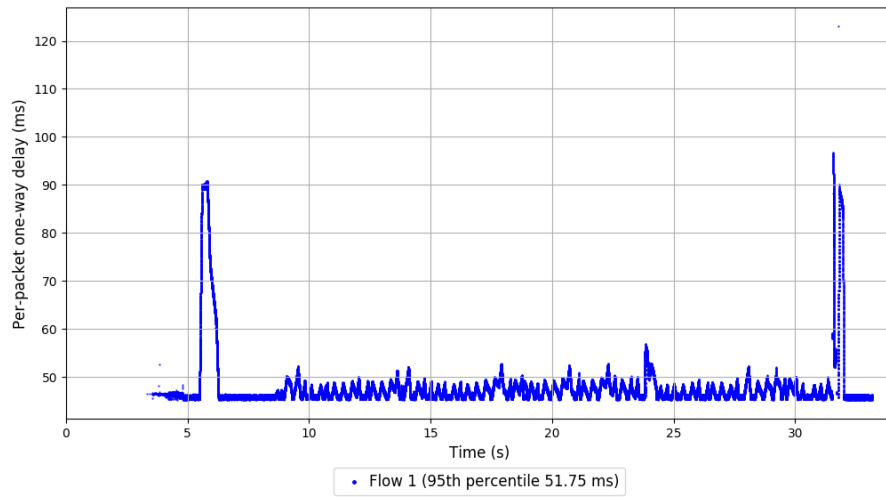
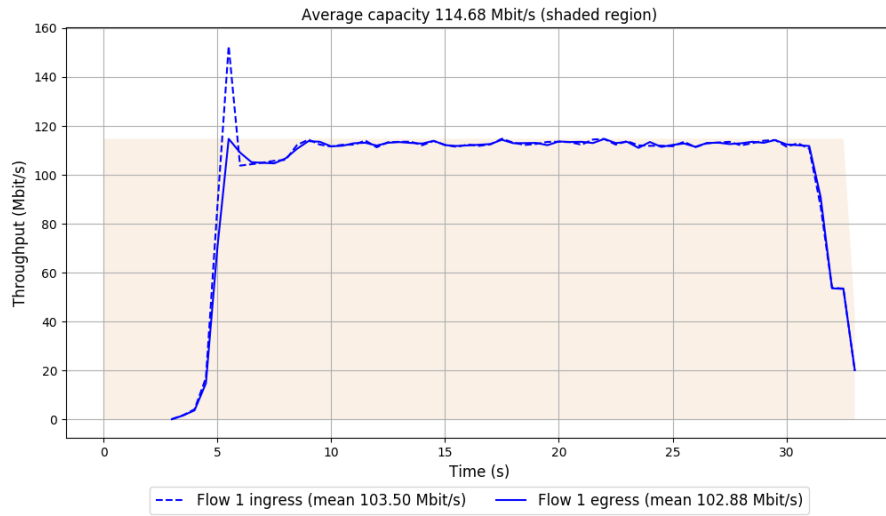
-- Flow 1:

Average throughput: 102.88 Mbit/s

95th percentile per-packet one-way delay: 51.753 ms

Loss rate: 0.78%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-27 07:20:18

End at: 2018-02-27 07:20:48

Below is generated by plot.py at 2018-02-27 08:51:45

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 105.24 Mbit/s (91.8% utilization)

95th percentile per-packet one-way delay: 50.237 ms

Loss rate: 0.83%

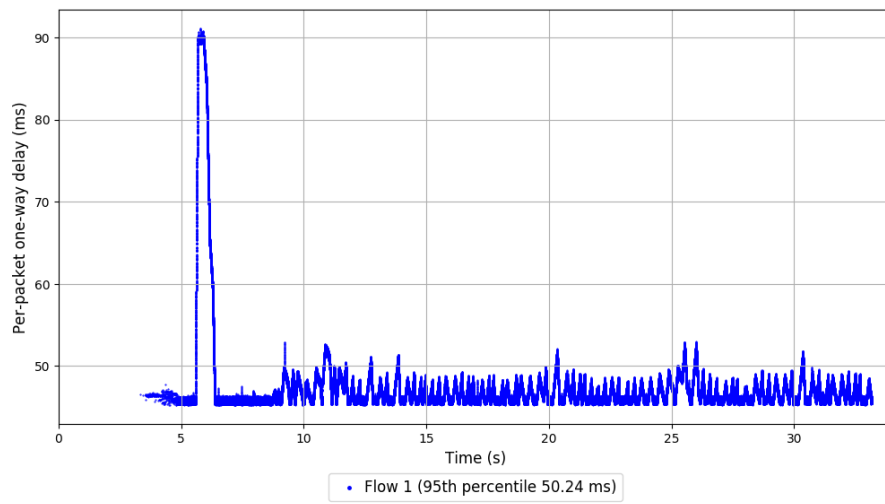
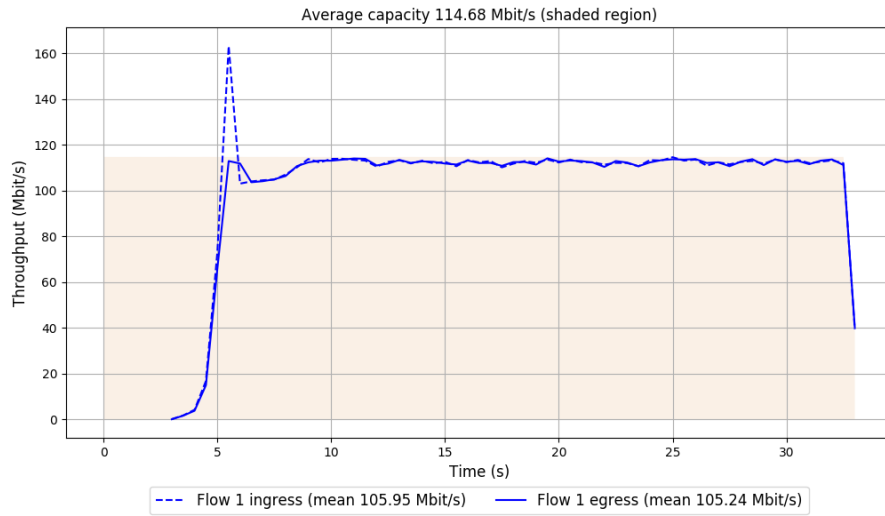
-- Flow 1:

Average throughput: 105.24 Mbit/s

95th percentile per-packet one-way delay: 50.237 ms

Loss rate: 0.83%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-27 07:32:31

End at: 2018-02-27 07:33:01

Below is generated by plot.py at 2018-02-27 08:51:46

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 105.31 Mbit/s (91.8% utilization)

95th percentile per-packet one-way delay: 66.751 ms

Loss rate: 0.88%

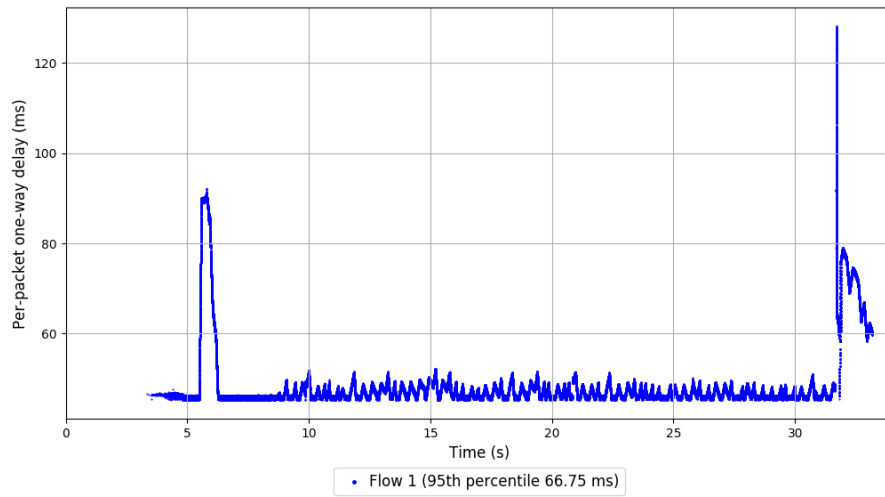
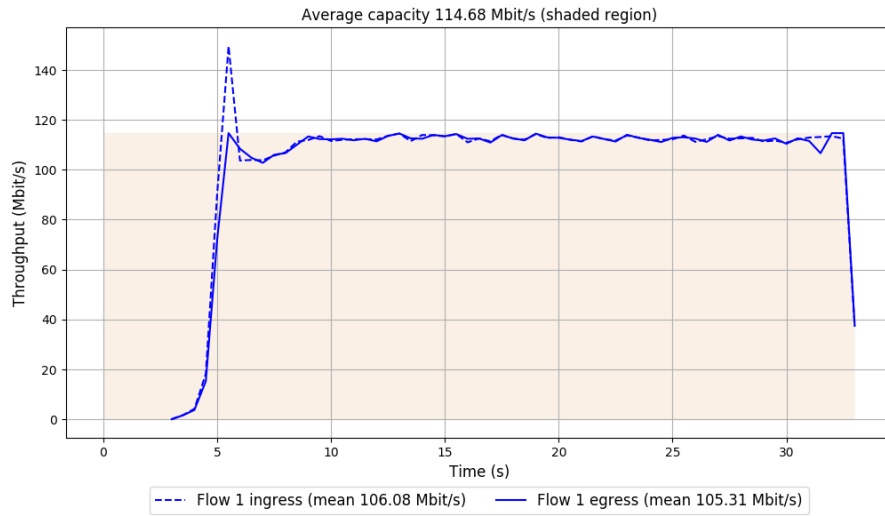
-- Flow 1:

Average throughput: 105.31 Mbit/s

95th percentile per-packet one-way delay: 66.751 ms

Loss rate: 0.88%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-27 07:44:24

End at: 2018-02-27 07:44:54

Below is generated by plot.py at 2018-02-27 08:51:47

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 105.31 Mbit/s (91.8% utilization)

95th percentile per-packet one-way delay: 49.373 ms

Loss rate: 0.83%

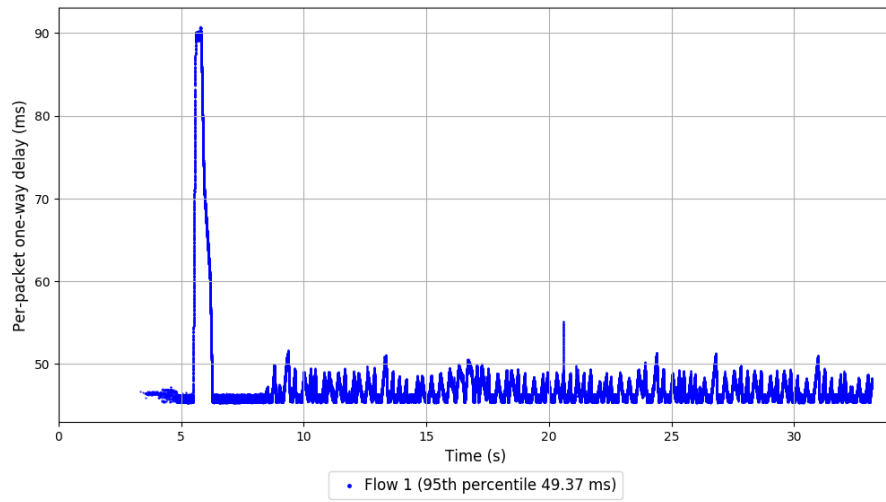
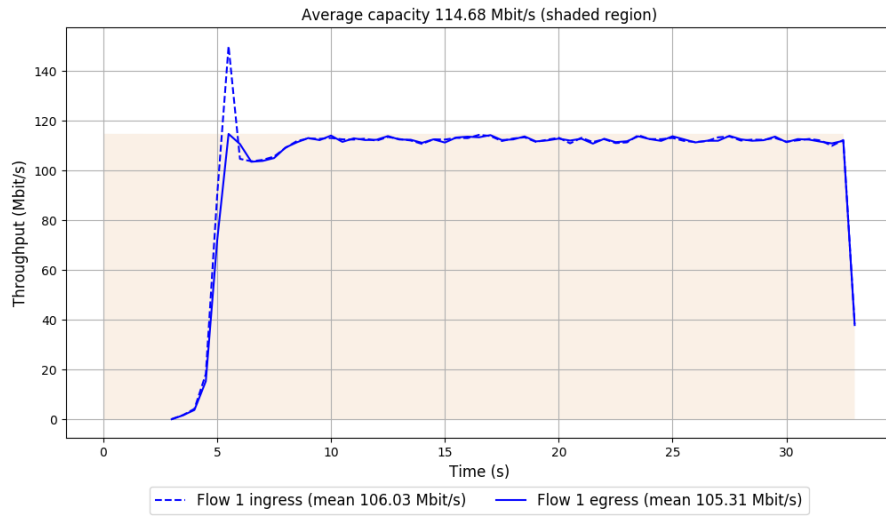
-- Flow 1:

Average throughput: 105.31 Mbit/s

95th percentile per-packet one-way delay: 49.373 ms

Loss rate: 0.83%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-27 07:56:16

End at: 2018-02-27 07:56:46

Below is generated by plot.py at 2018-02-27 08:51:47

Datalink statistics

-- Total of 1 flow:

Average capacity: 114.68 Mbit/s

Average throughput: 104.89 Mbit/s (91.5% utilization)

95th percentile per-packet one-way delay: 61.770 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 104.89 Mbit/s

95th percentile per-packet one-way delay: 61.770 ms

Loss rate: 0.82%

Run 10: Report of Vivace-LTE — Data Link

