

Pantheon Report

Generated at 2018-02-27 10:47:12 (UTC).

Tested in mahimahi: mm-delay 10 mm-link 60mbps.trace 60mbps.trace
--uplink-queue=droptail --uplink-queue-args=packets=1 --downlink-queue=droptail
--downlink-queue-args=packets=1

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

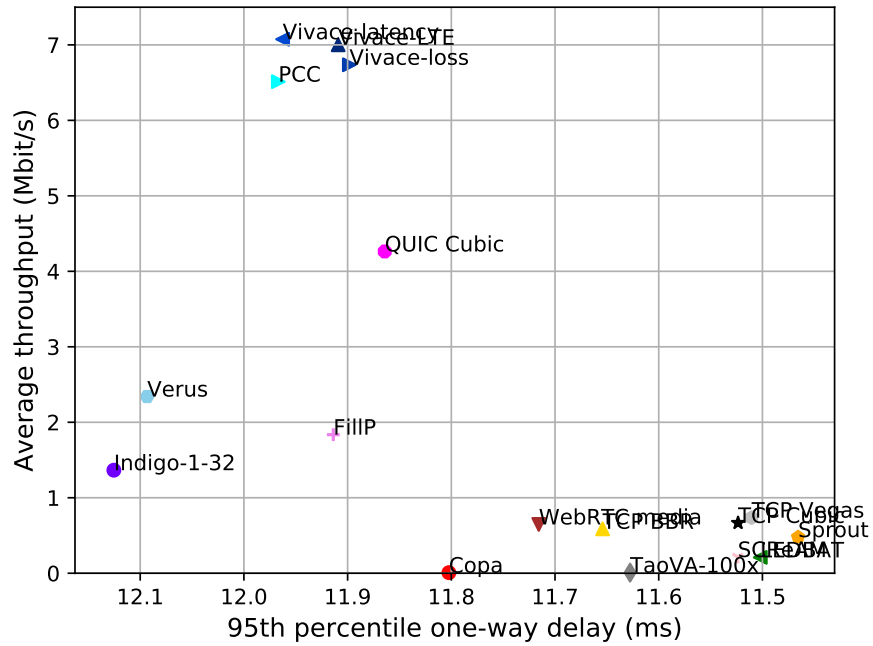
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

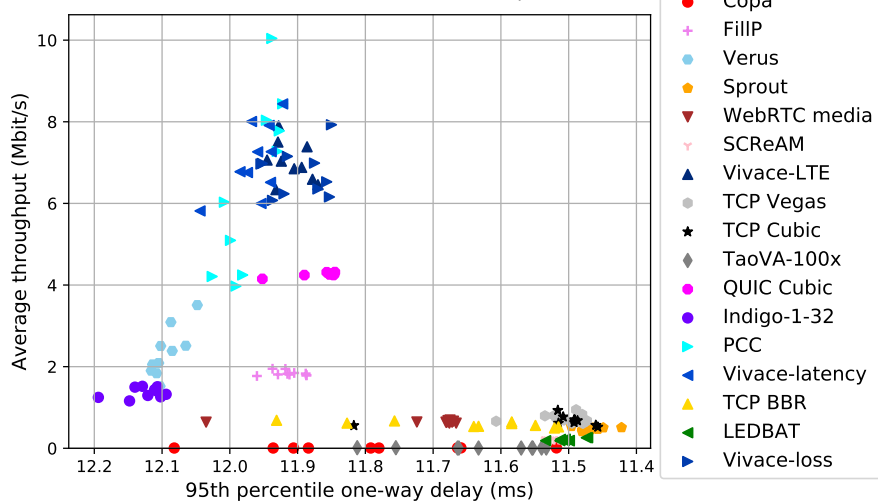
Git summary:

```
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-quick @ 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)



local test in mahimahi, 10 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate (%)
		flow 1	flow 1	flow 1
TCP BBR	10	0.59	11.65	30.88
TCP Cubic	10	0.67	11.52	21.85
LEDBAT	10	0.21	11.50	49.42
PCC	10	6.51	11.97	3.25
QUIC Cubic	10	4.26	11.86	7.97
SCReAM	10	0.21	11.52	0.01
WebRTC media	10	0.65	11.72	36.67
Sprout	10	0.48	11.47	9.24
TaoVA-100x	10	0.01	11.63	55.98
TCP Vegas	10	0.74	11.51	17.84
Verus	10	2.34	12.09	98.46
Copa	9	0.01	11.80	94.48
FillP	10	1.84	11.91	76.84
Indigo-1-32	10	1.37	12.13	94.54
Vivace-latency	10	7.08	11.96	0.76
Vivace-loss	10	6.74	11.90	0.27
Vivace-LTE	10	7.00	11.91	0.12

Run 1: Statistics of TCP BBR

Start at: 2018-02-27 08:55:05

End at: 2018-02-27 08:55:35

Below is generated by plot.py at 2018-02-27 10:38:53

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.53 Mbit/s (0.9% utilization)

95th percentile per-packet one-way delay: 11.640 ms

Loss rate: 28.16%

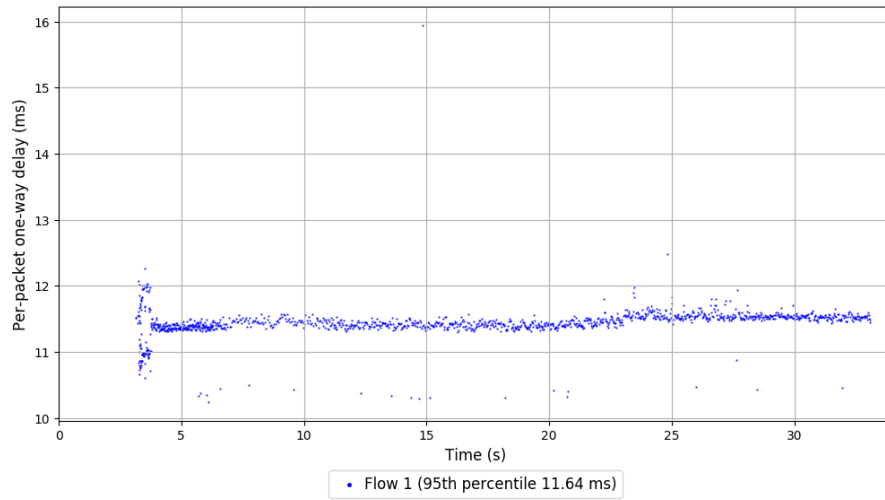
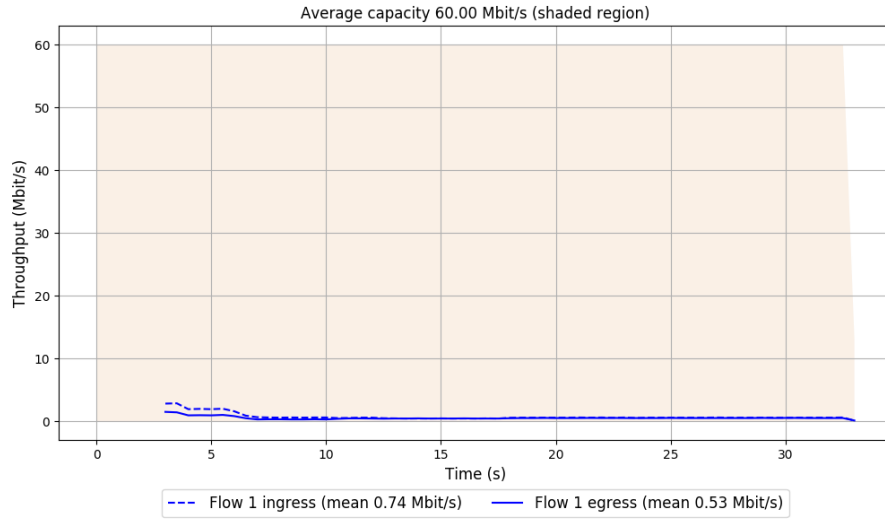
-- Flow 1:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 11.640 ms

Loss rate: 28.16%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-27 09:05:30

End at: 2018-02-27 09:06:00

Below is generated by plot.py at 2018-02-27 10:38:53

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.62 Mbit/s (1.0% utilization)

95th percentile per-packet one-way delay: 11.827 ms

Loss rate: 31.61%

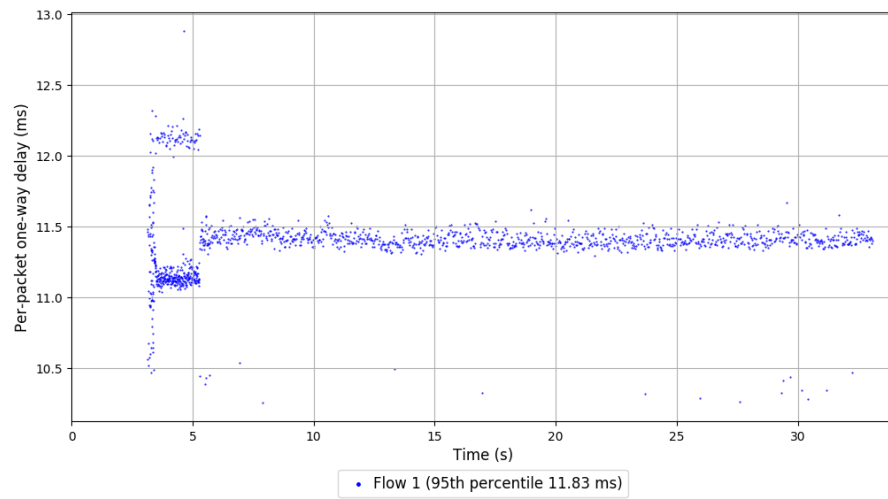
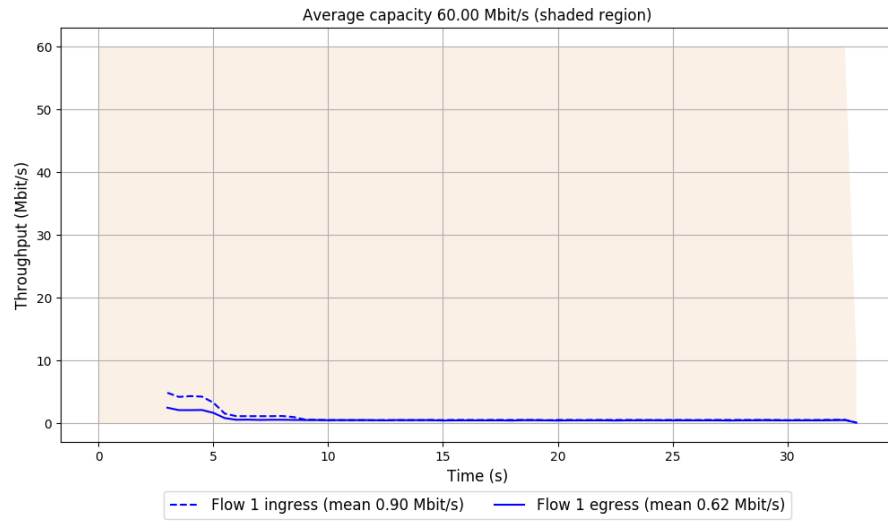
-- Flow 1:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 11.827 ms

Loss rate: 31.61%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-27 09:15:53

End at: 2018-02-27 09:16:23

Below is generated by plot.py at 2018-02-27 10:38:53

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.50 Mbit/s (0.8% utilization)

95th percentile per-packet one-way delay: 11.521 ms

Loss rate: 25.36%

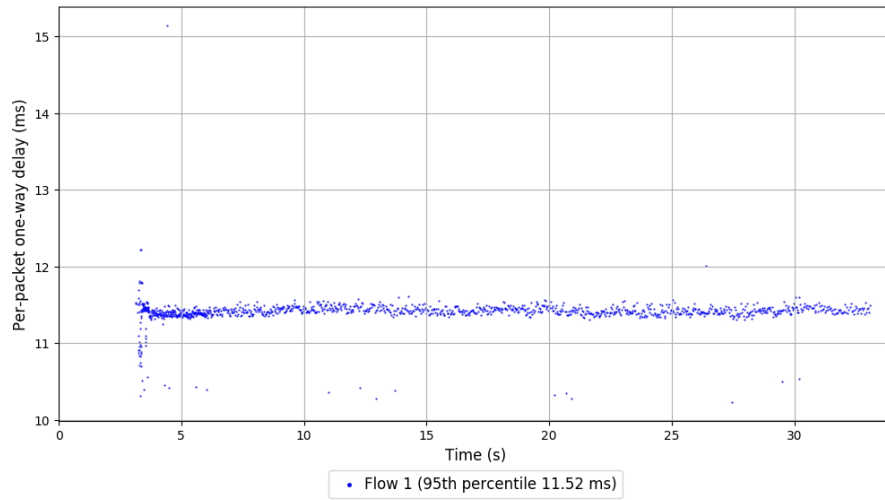
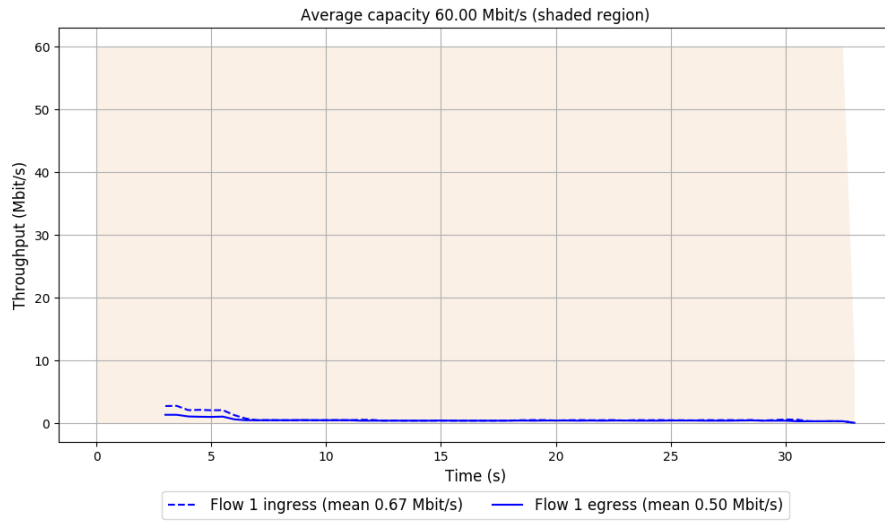
-- Flow 1:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 11.521 ms

Loss rate: 25.36%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-27 09:26:18

End at: 2018-02-27 09:26:48

Below is generated by plot.py at 2018-02-27 10:38:53

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.56 Mbit/s (0.9% utilization)

95th percentile per-packet one-way delay: 11.549 ms

Loss rate: 30.06%

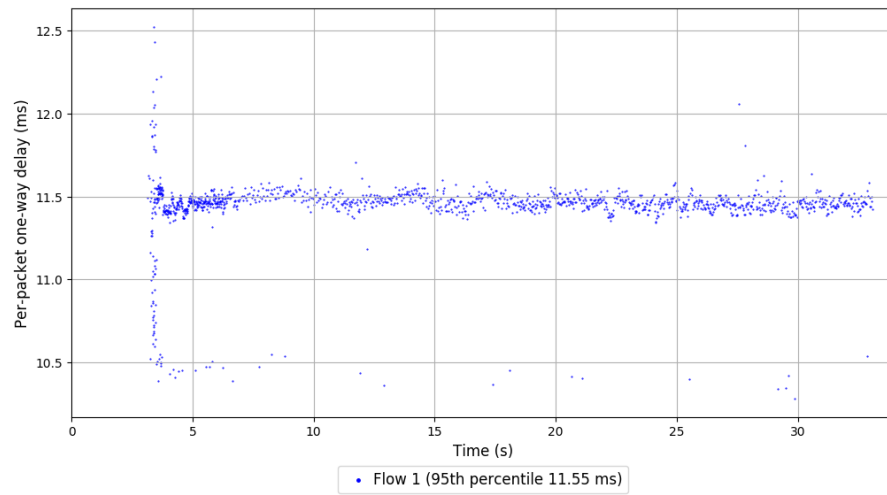
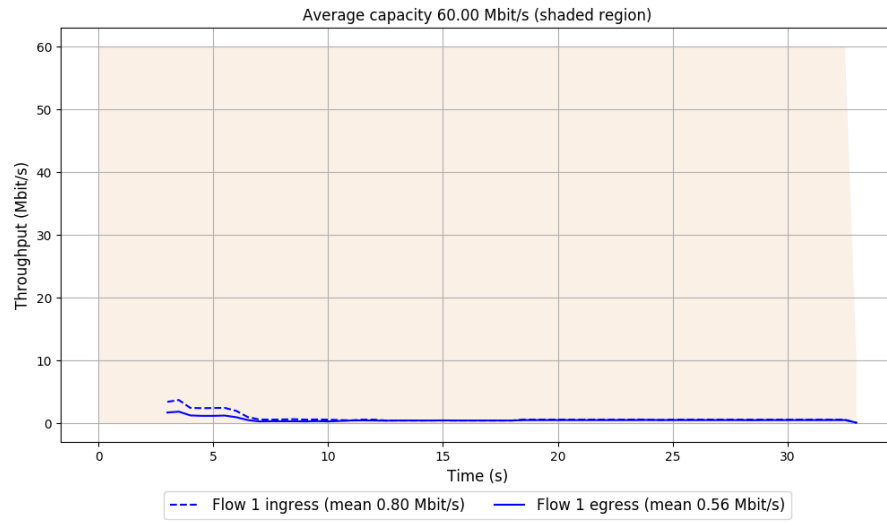
-- Flow 1:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 11.549 ms

Loss rate: 30.06%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-27 09:36:41

End at: 2018-02-27 09:37:11

Below is generated by plot.py at 2018-02-27 10:38:53

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.61 Mbit/s (1.0% utilization)

95th percentile per-packet one-way delay: 11.584 ms

Loss rate: 32.87%

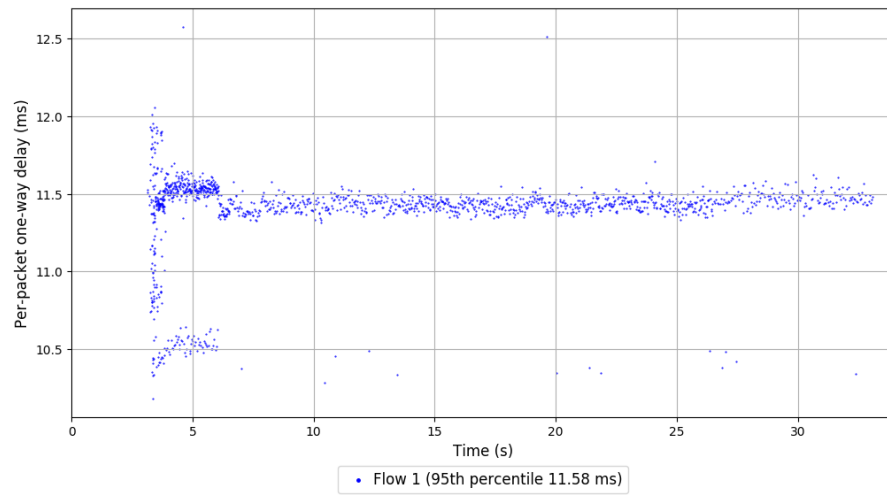
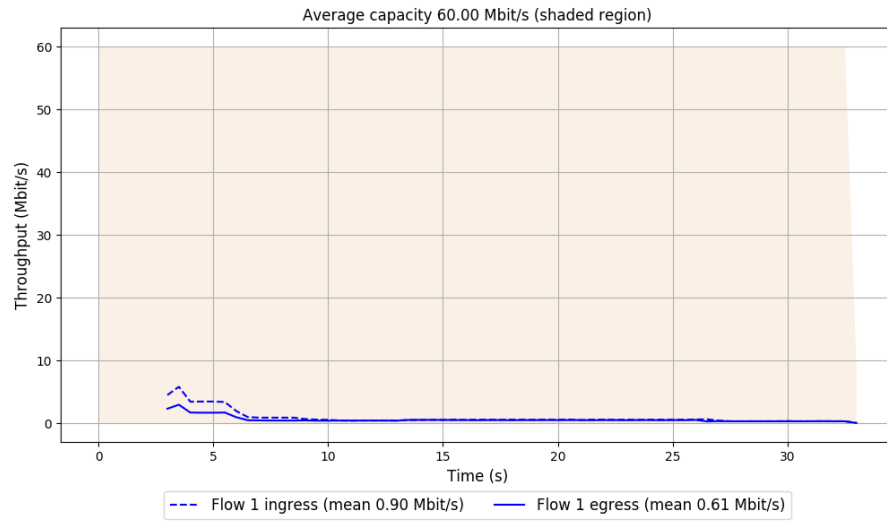
-- Flow 1:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 11.584 ms

Loss rate: 32.87%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-27 09:47:08

End at: 2018-02-27 09:47:38

Below is generated by plot.py at 2018-02-27 10:38:53

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.67 Mbit/s (1.1% utilization)

95th percentile per-packet one-way delay: 11.757 ms

Loss rate: 36.07%

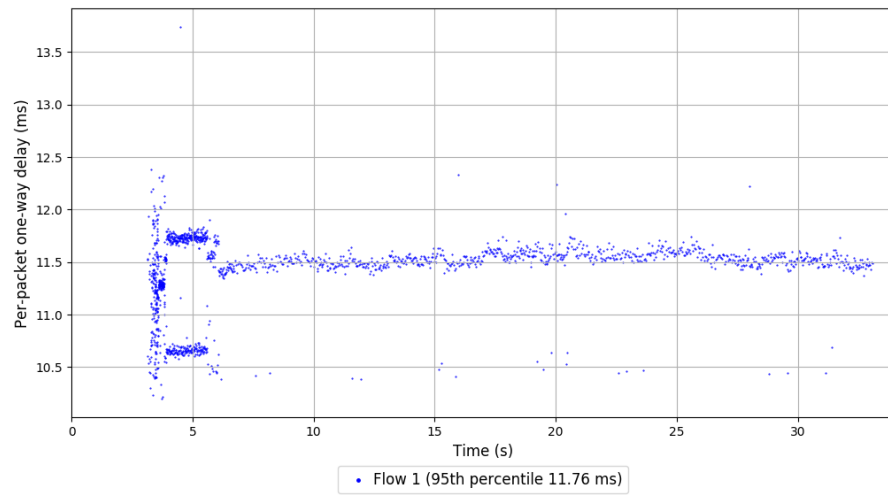
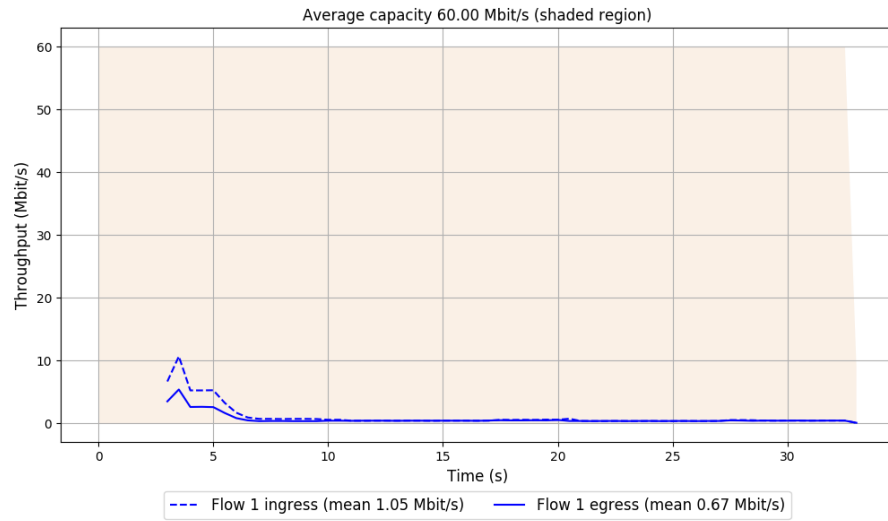
-- Flow 1:

Average throughput: 0.67 Mbit/s

95th percentile per-packet one-way delay: 11.757 ms

Loss rate: 36.07%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-27 09:57:33

End at: 2018-02-27 09:58:03

Below is generated by plot.py at 2018-02-27 10:38:53

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.53 Mbit/s (0.9% utilization)

95th percentile per-packet one-way delay: 11.515 ms

Loss rate: 27.61%

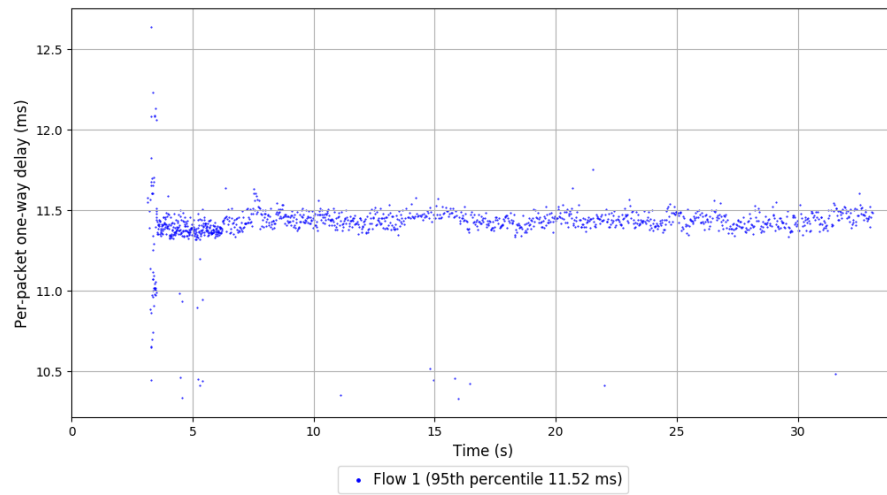
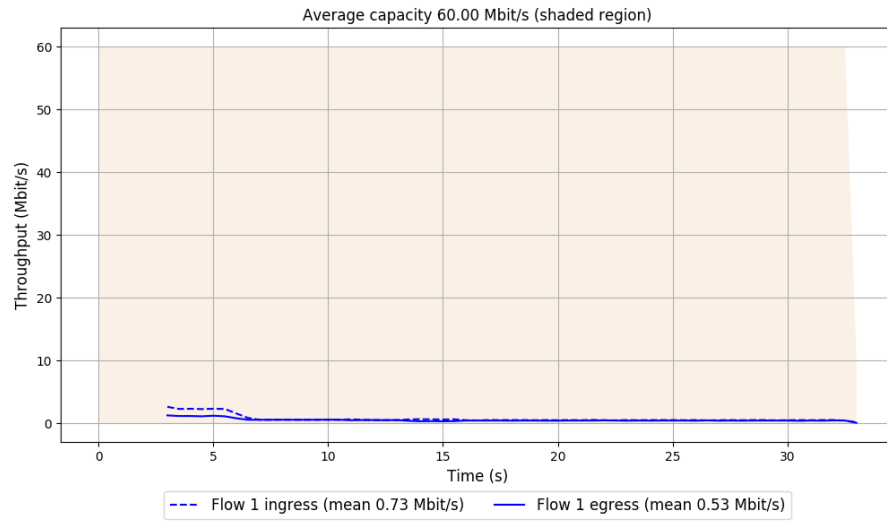
-- Flow 1:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 11.515 ms

Loss rate: 27.61%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-27 10:07:56

End at: 2018-02-27 10:08:26

Below is generated by plot.py at 2018-02-27 10:38:53

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.65 Mbit/s (1.1% utilization)

95th percentile per-packet one-way delay: 11.584 ms

Loss rate: 30.98%

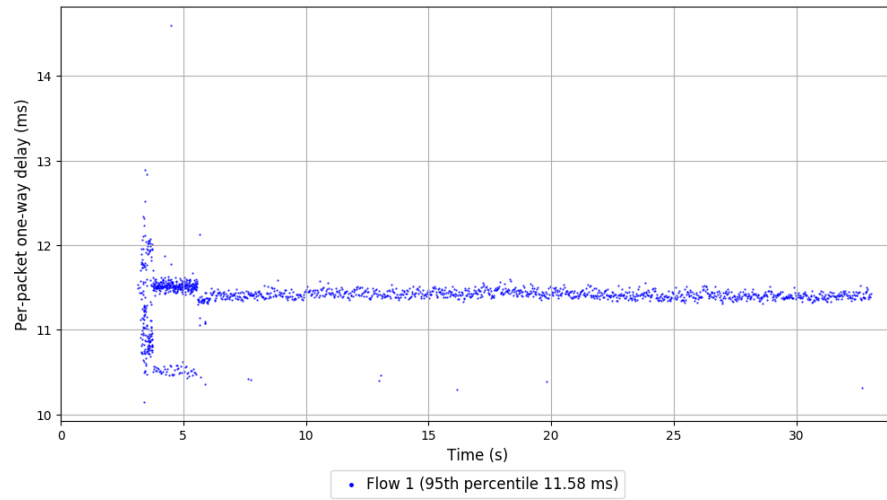
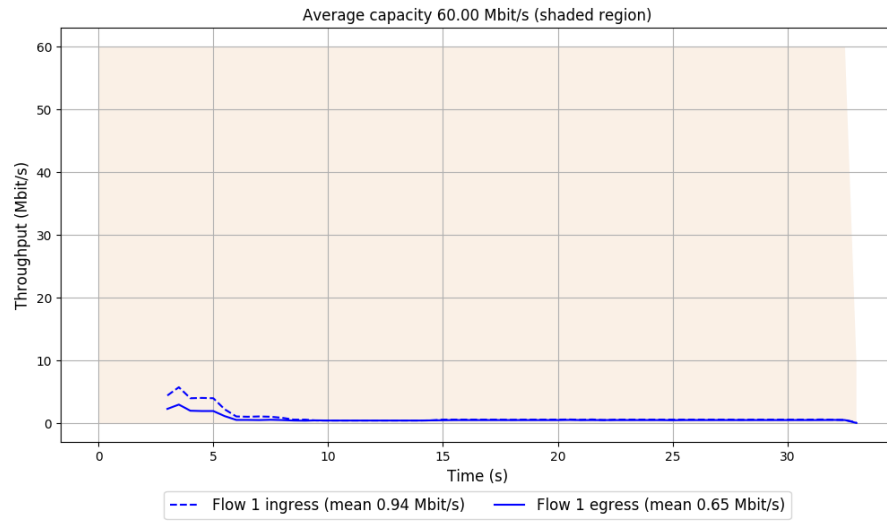
-- Flow 1:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 11.584 ms

Loss rate: 30.98%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-27 10:18:24

End at: 2018-02-27 10:18:54

Below is generated by plot.py at 2018-02-27 10:39:08

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.69 Mbit/s (1.1% utilization)

95th percentile per-packet one-way delay: 11.931 ms

Loss rate: 34.33%

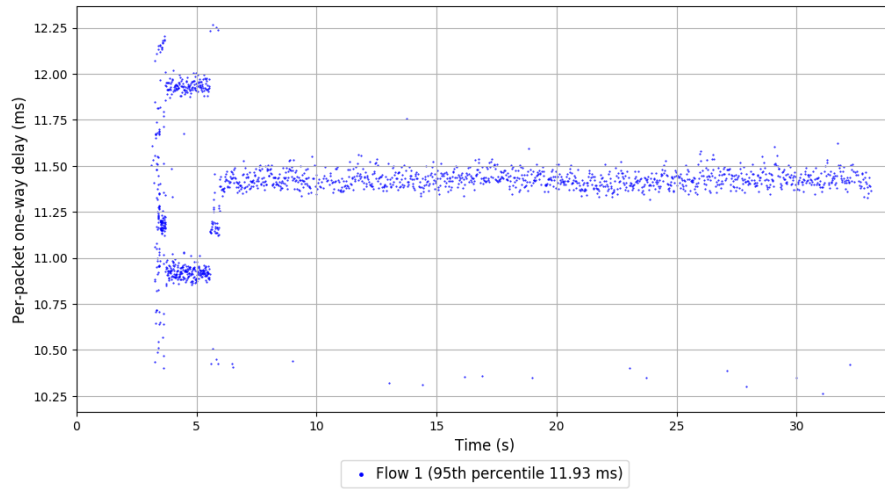
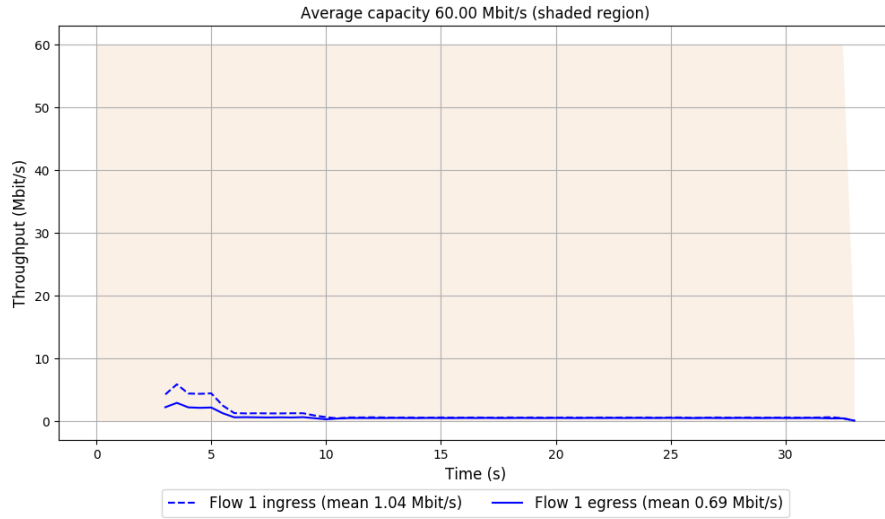
-- Flow 1:

Average throughput: 0.69 Mbit/s

95th percentile per-packet one-way delay: 11.931 ms

Loss rate: 34.33%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-27 10:28:48

End at: 2018-02-27 10:29:18

Below is generated by plot.py at 2018-02-27 10:39:10

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.54 Mbit/s (0.9% utilization)

95th percentile per-packet one-way delay: 11.633 ms

Loss rate: 31.79%

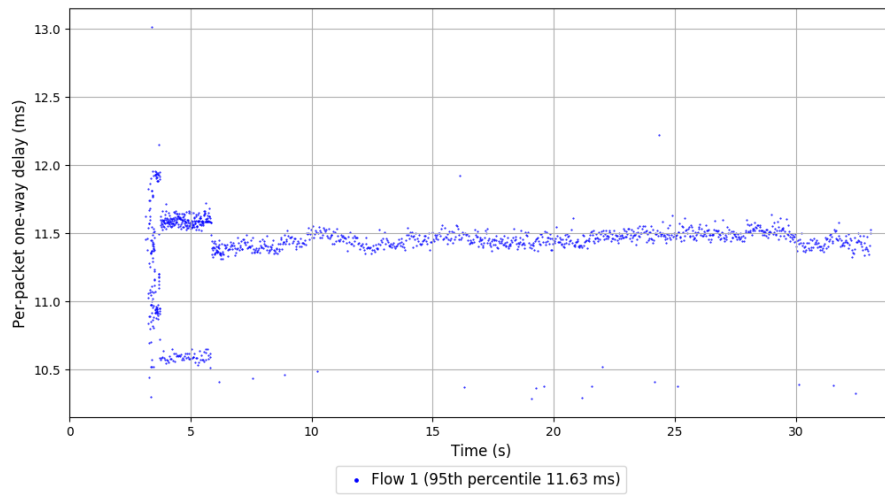
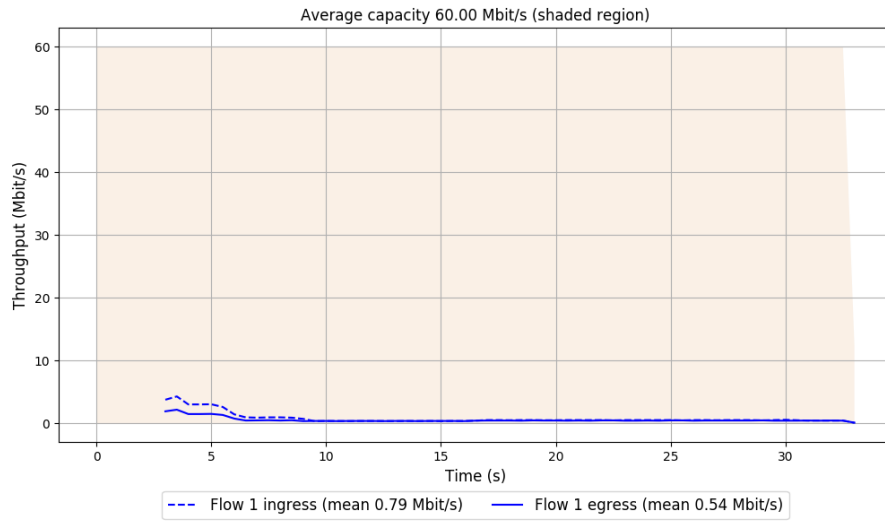
-- Flow 1:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 11.633 ms

Loss rate: 31.79%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-27 09:03:12

End at: 2018-02-27 09:03:42

Below is generated by plot.py at 2018-02-27 10:39:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.70 Mbit/s (1.2% utilization)

95th percentile per-packet one-way delay: 11.491 ms

Loss rate: 20.76%

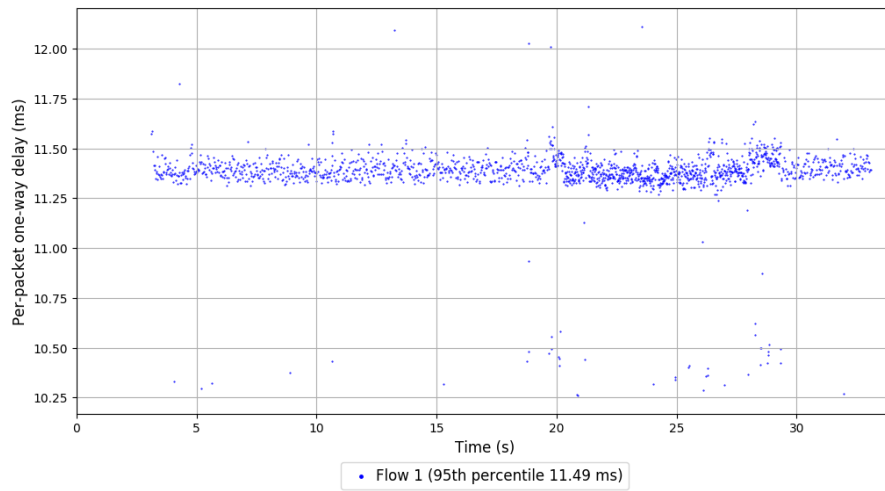
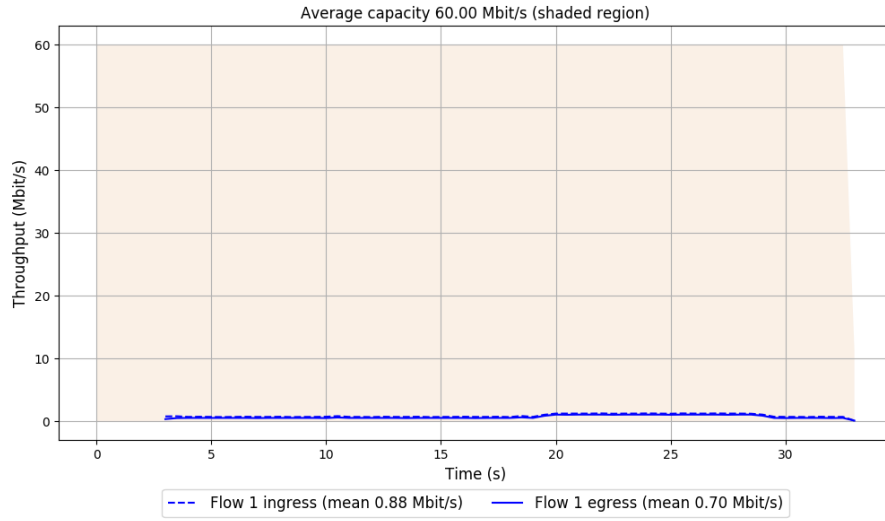
-- Flow 1:

Average throughput: 0.70 Mbit/s

95th percentile per-packet one-way delay: 11.491 ms

Loss rate: 20.76%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-27 09:13:35

End at: 2018-02-27 09:14:05

Below is generated by plot.py at 2018-02-27 10:39:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.62 Mbit/s (1.0% utilization)

95th percentile per-packet one-way delay: 11.515 ms

Loss rate: 22.74%

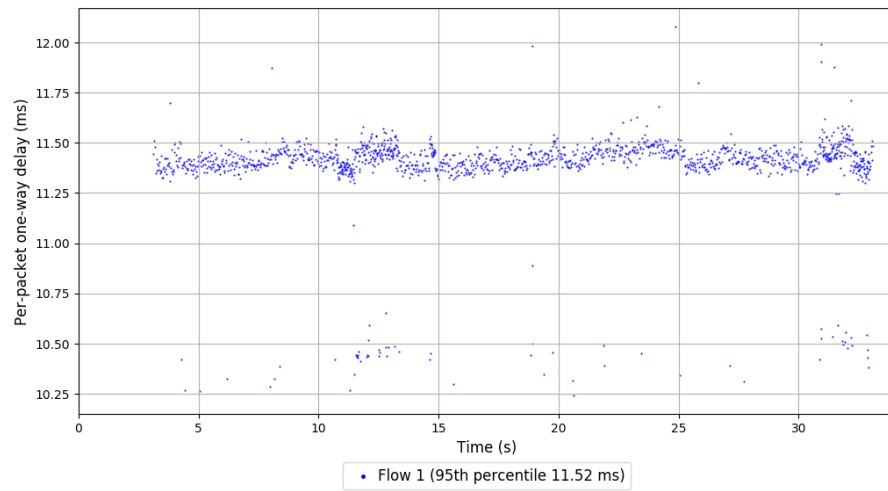
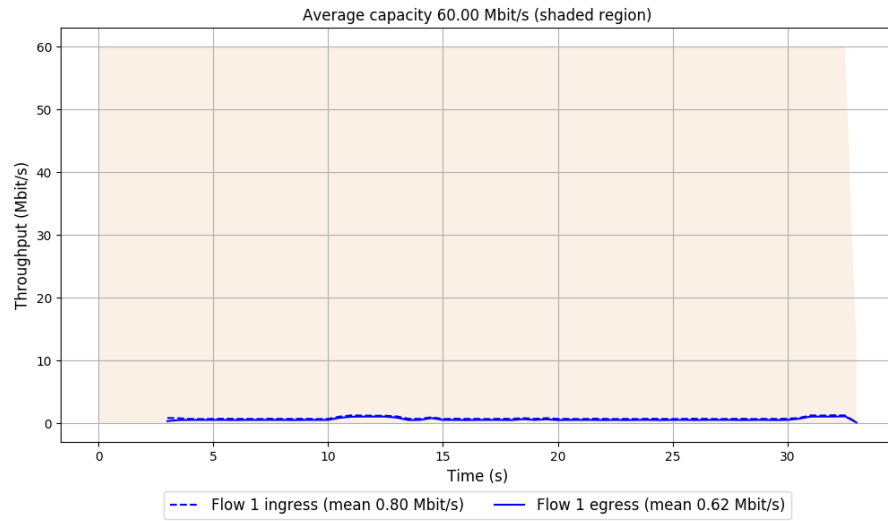
-- Flow 1:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 11.515 ms

Loss rate: 22.74%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-27 09:24:00

End at: 2018-02-27 09:24:30

Below is generated by plot.py at 2018-02-27 10:39:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.70 Mbit/s (1.2% utilization)

95th percentile per-packet one-way delay: 11.492 ms

Loss rate: 20.48%

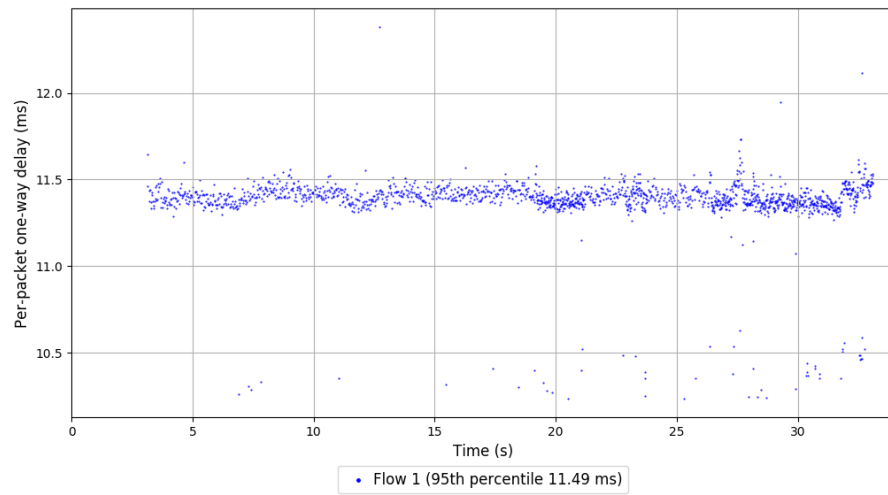
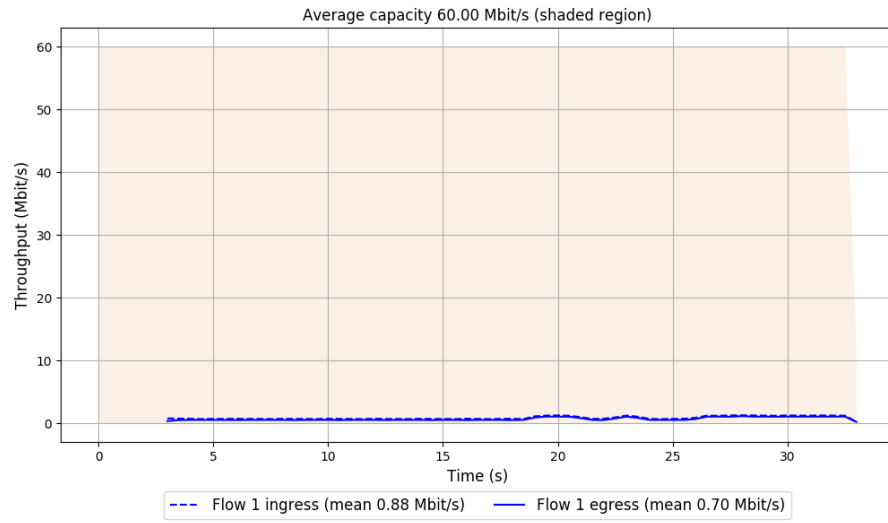
-- Flow 1:

Average throughput: 0.70 Mbit/s

95th percentile per-packet one-way delay: 11.492 ms

Loss rate: 20.48%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-27 09:34:24

End at: 2018-02-27 09:34:54

Below is generated by plot.py at 2018-02-27 10:39:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.77 Mbit/s (1.3% utilization)

95th percentile per-packet one-way delay: 11.508 ms

Loss rate: 19.17%

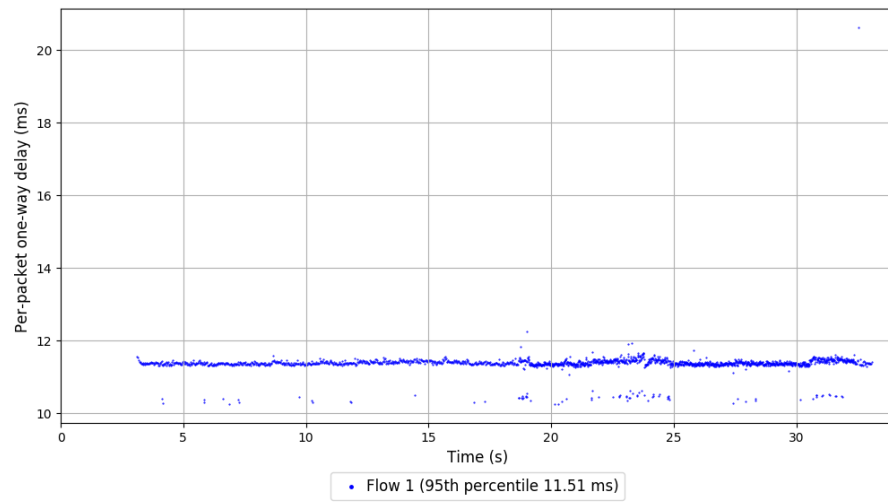
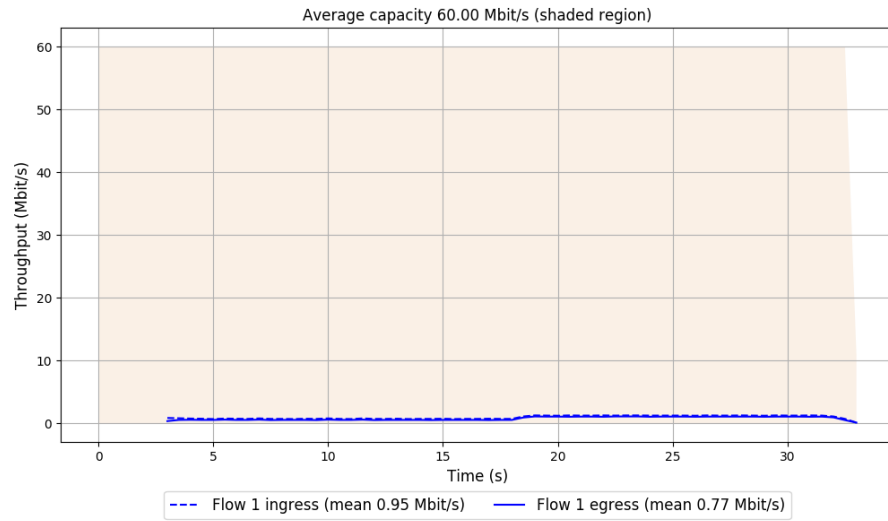
-- Flow 1:

Average throughput: 0.77 Mbit/s

95th percentile per-packet one-way delay: 11.508 ms

Loss rate: 19.17%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-27 09:44:49

End at: 2018-02-27 09:45:19

Below is generated by plot.py at 2018-02-27 10:39:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.56 Mbit/s (0.9% utilization)

95th percentile per-packet one-way delay: 11.817 ms

Loss rate: 25.23%

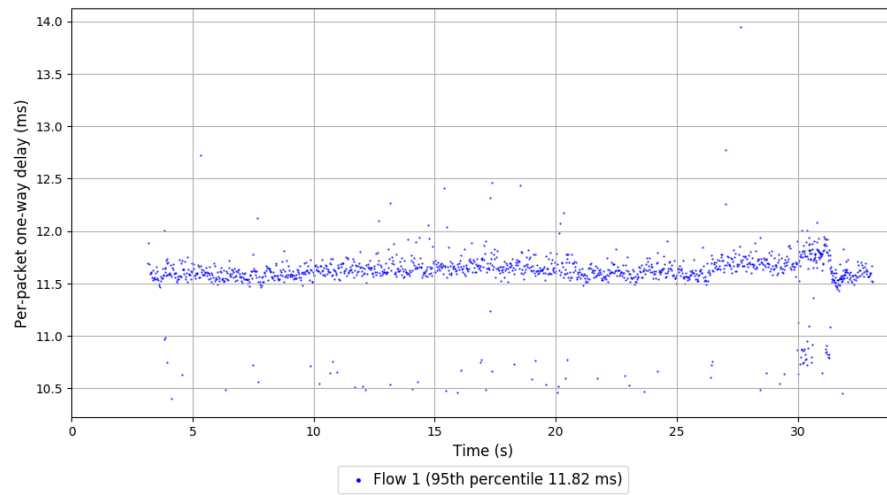
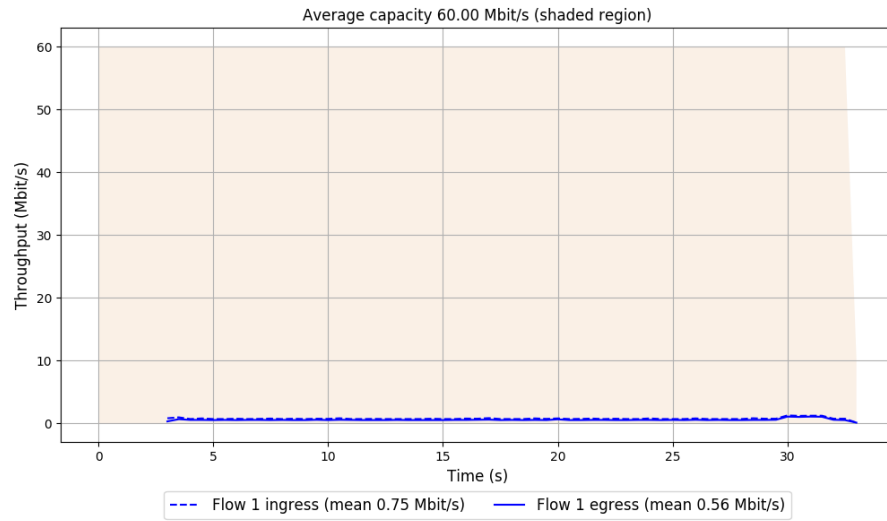
-- Flow 1:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 11.817 ms

Loss rate: 25.23%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-27 09:55:15

End at: 2018-02-27 09:55:45

Below is generated by plot.py at 2018-02-27 10:39:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.56 Mbit/s (0.9% utilization)

95th percentile per-packet one-way delay: 11.460 ms

Loss rate: 24.56%

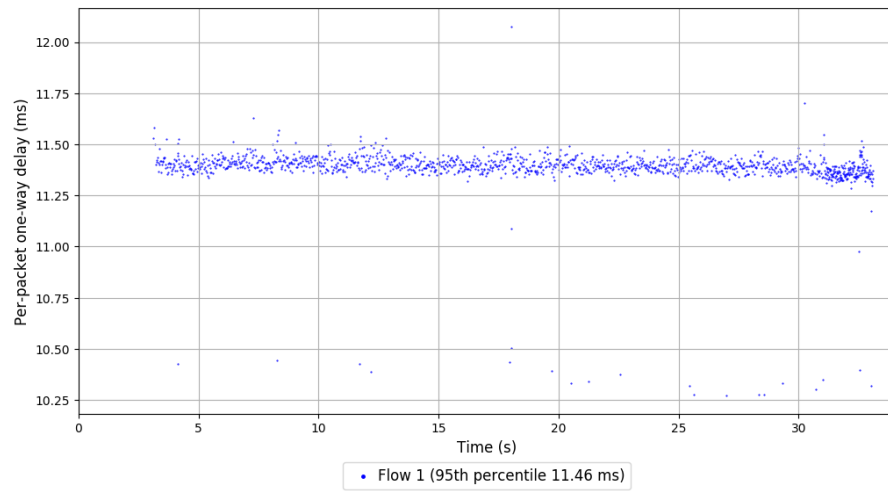
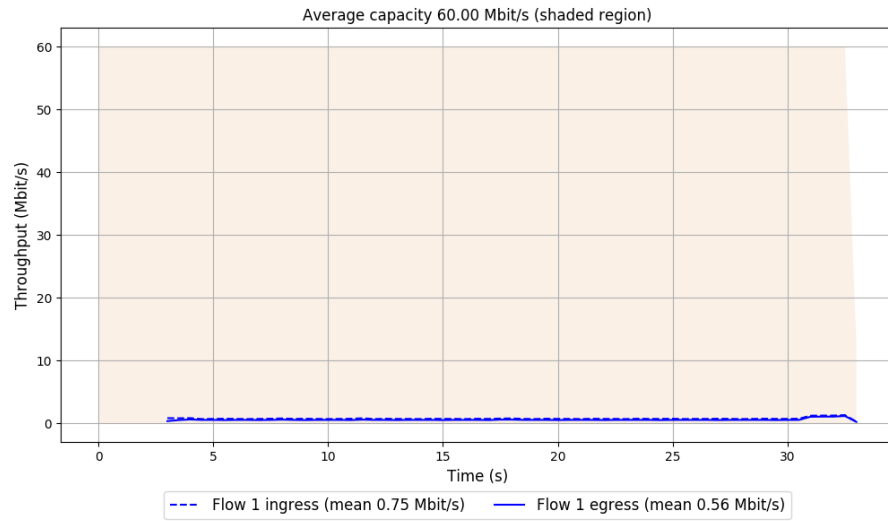
-- Flow 1:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 11.460 ms

Loss rate: 24.56%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-27 10:05:38

End at: 2018-02-27 10:06:08

Below is generated by plot.py at 2018-02-27 10:39:27

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.68 Mbit/s (1.1% utilization)

95th percentile per-packet one-way delay: 11.487 ms

Loss rate: 21.25%

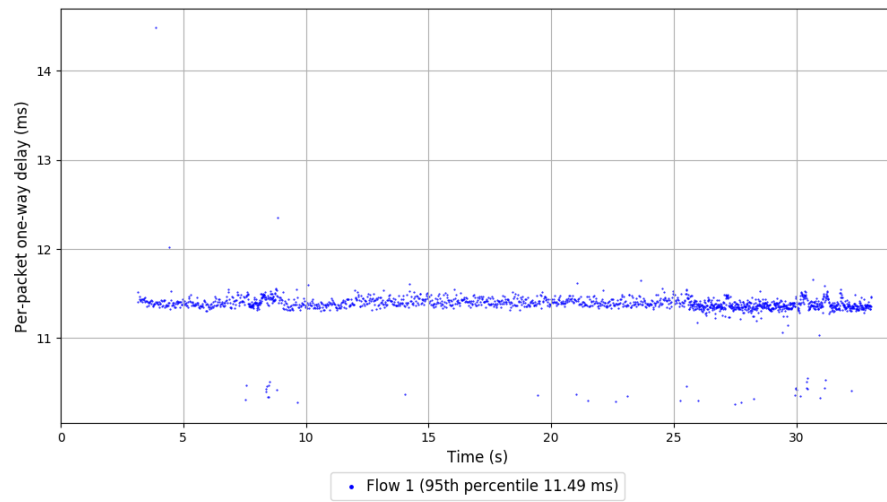
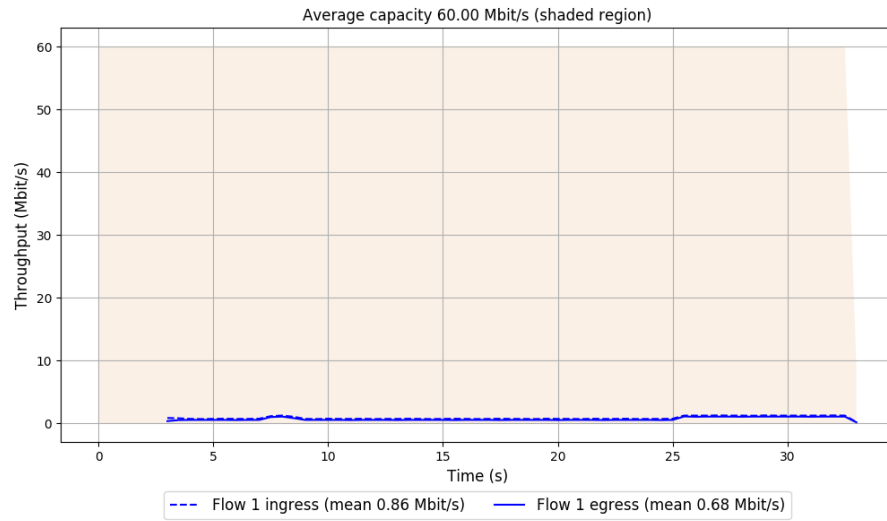
-- Flow 1:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 11.487 ms

Loss rate: 21.25%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-27 10:16:06

End at: 2018-02-27 10:16:36

Below is generated by plot.py at 2018-02-27 10:39:28

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.93 Mbit/s (1.6% utilization)

95th percentile per-packet one-way delay: 11.516 ms

Loss rate: 16.34%

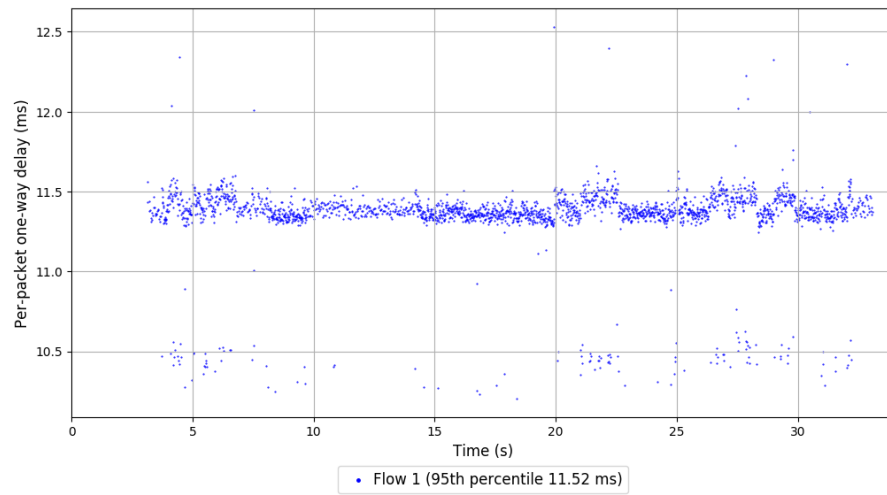
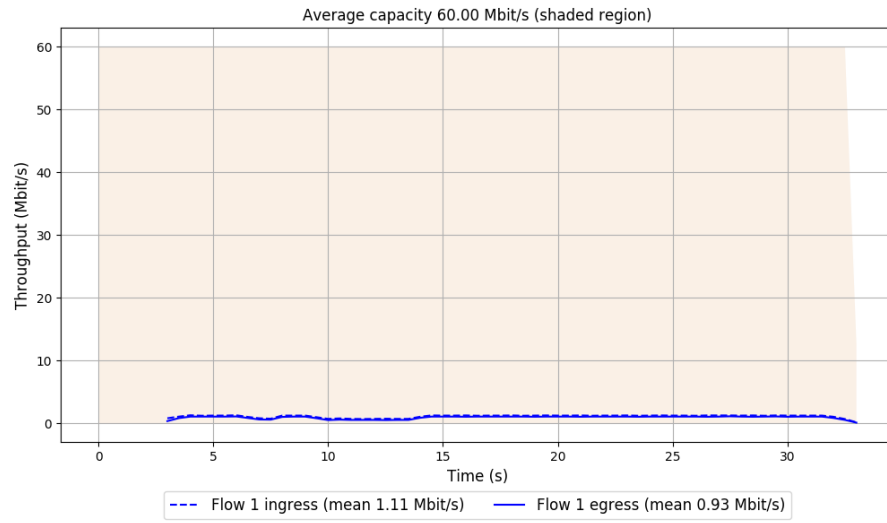
-- Flow 1:

Average throughput: 0.93 Mbit/s

95th percentile per-packet one-way delay: 11.516 ms

Loss rate: 16.34%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-27 10:26:30

End at: 2018-02-27 10:27:00

Below is generated by plot.py at 2018-02-27 10:39:28

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.52 Mbit/s (0.9% utilization)

95th percentile per-packet one-way delay: 11.457 ms

Loss rate: 25.75%

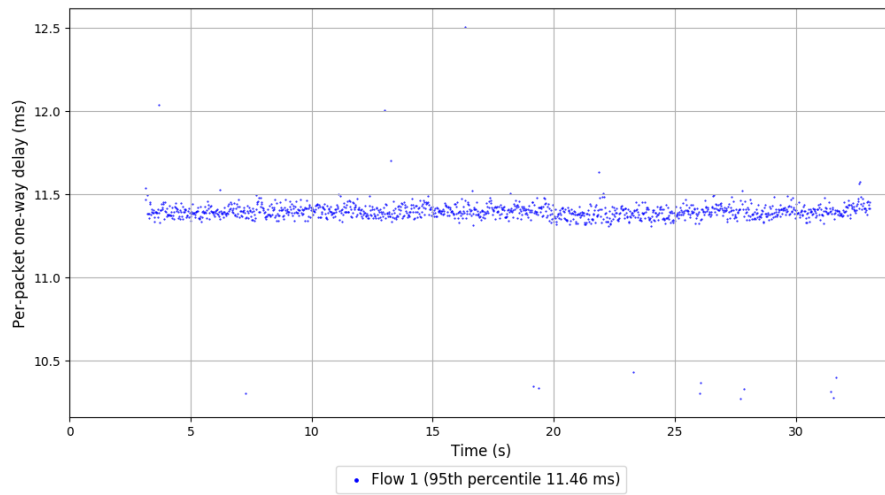
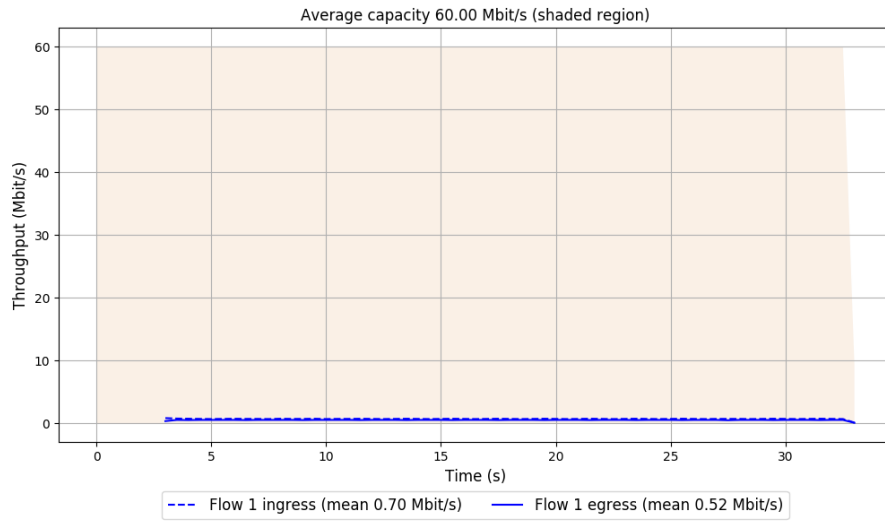
-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 11.457 ms

Loss rate: 25.75%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-27 10:36:53

End at: 2018-02-27 10:37:23

Below is generated by plot.py at 2018-02-27 10:39:31

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.63 Mbit/s (1.1% utilization)

95th percentile per-packet one-way delay: 11.492 ms

Loss rate: 22.18%

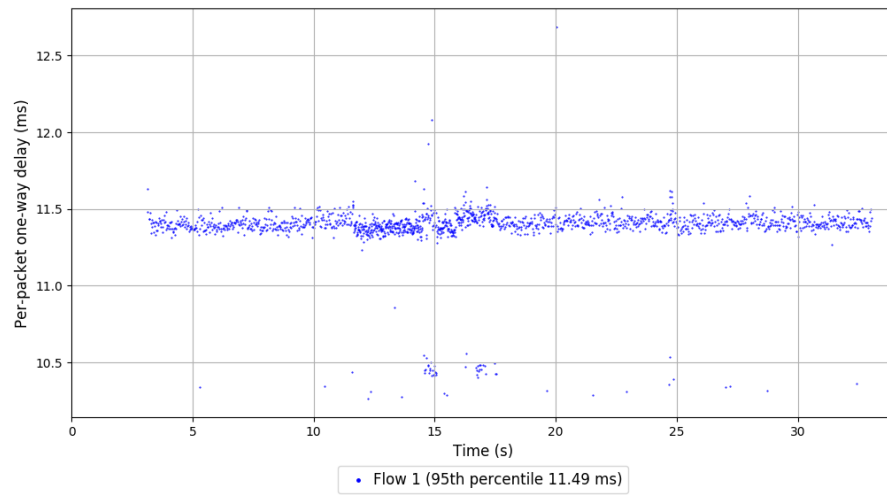
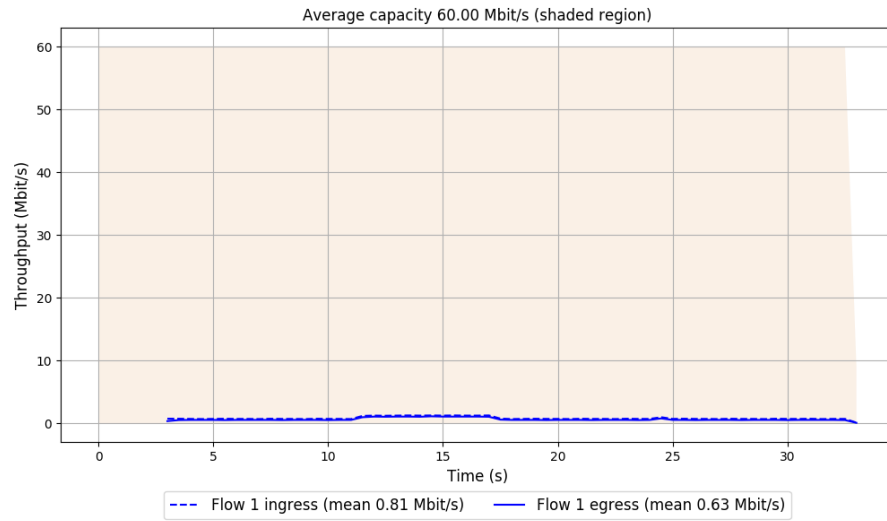
-- Flow 1:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 11.492 ms

Loss rate: 22.18%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of LEDBAT

Start at: 2018-02-27 08:57:58

End at: 2018-02-27 08:58:28

Below is generated by plot.py at 2018-02-27 10:39:31

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.18 Mbit/s (0.3% utilization)

95th percentile per-packet one-way delay: 11.499 ms

Loss rate: 47.12%

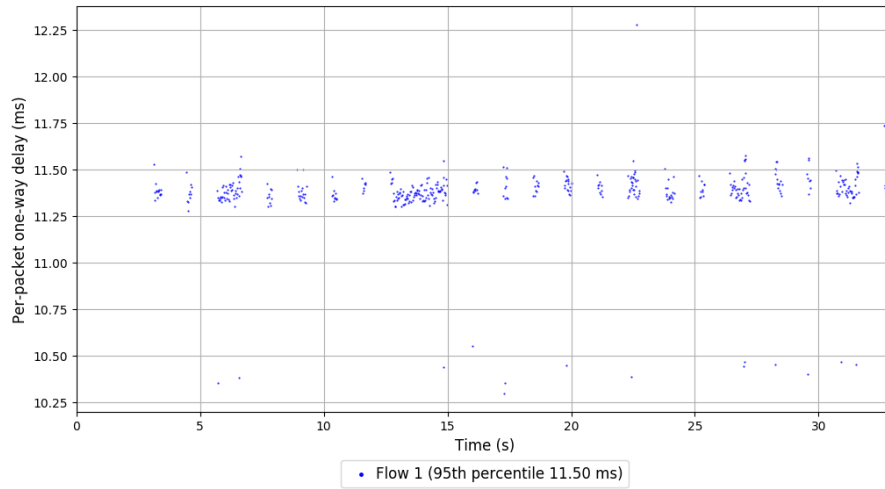
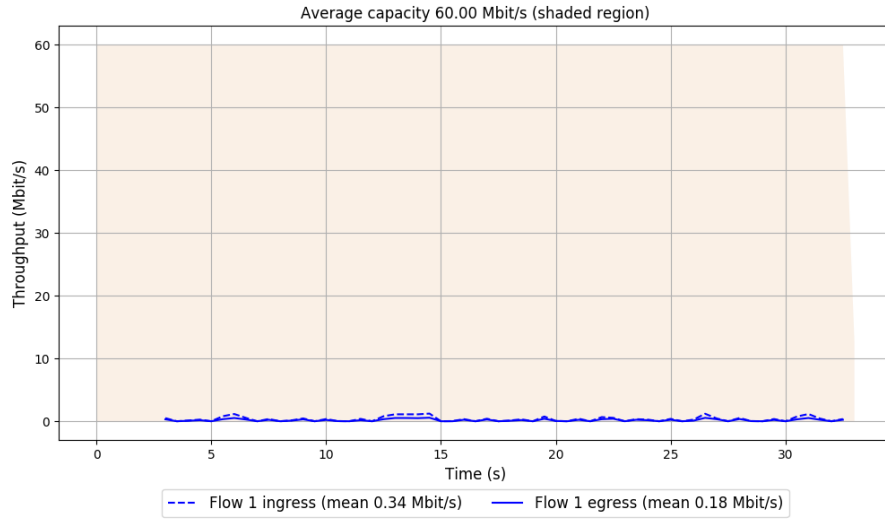
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 11.499 ms

Loss rate: 47.12%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-02-27 09:08:21

End at: 2018-02-27 09:08:51

Below is generated by plot.py at 2018-02-27 10:39:31

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.20 Mbit/s (0.3% utilization)

95th percentile per-packet one-way delay: 11.506 ms

Loss rate: 49.75%

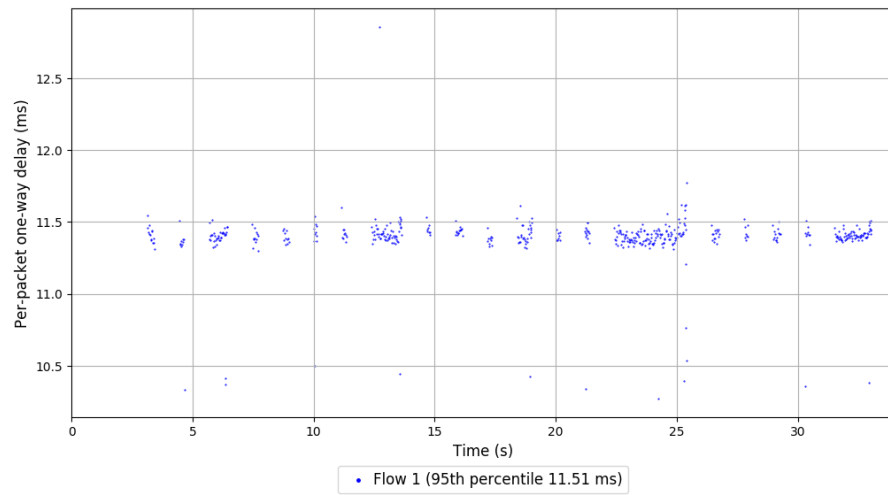
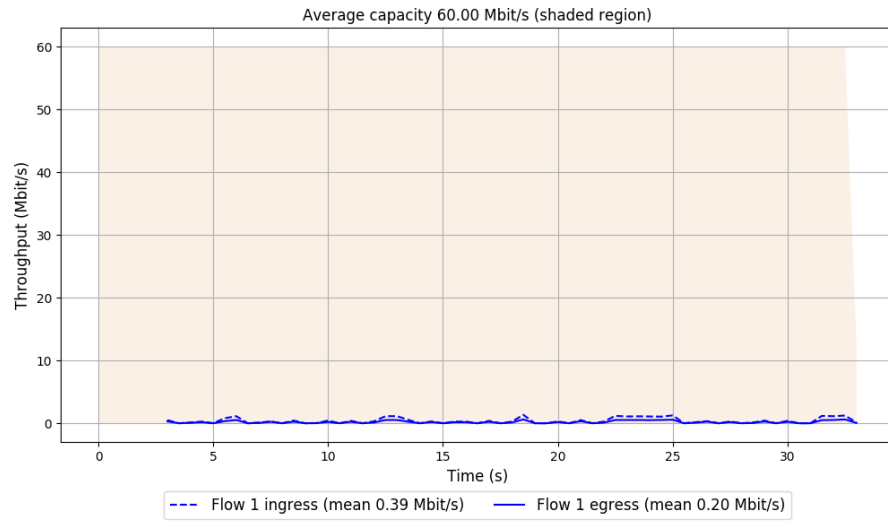
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 11.506 ms

Loss rate: 49.75%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-27 09:18:45

End at: 2018-02-27 09:19:15

Below is generated by plot.py at 2018-02-27 10:39:31

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.22 Mbit/s (0.4% utilization)

95th percentile per-packet one-way delay: 11.512 ms

Loss rate: 49.86%

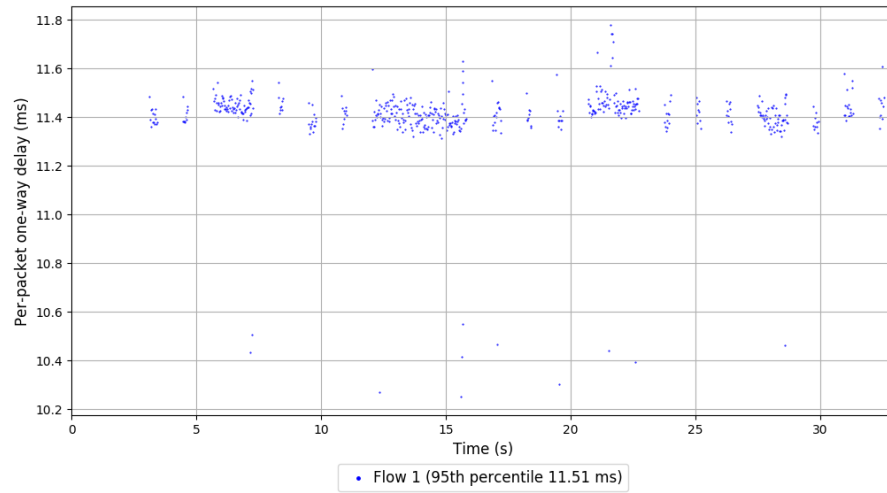
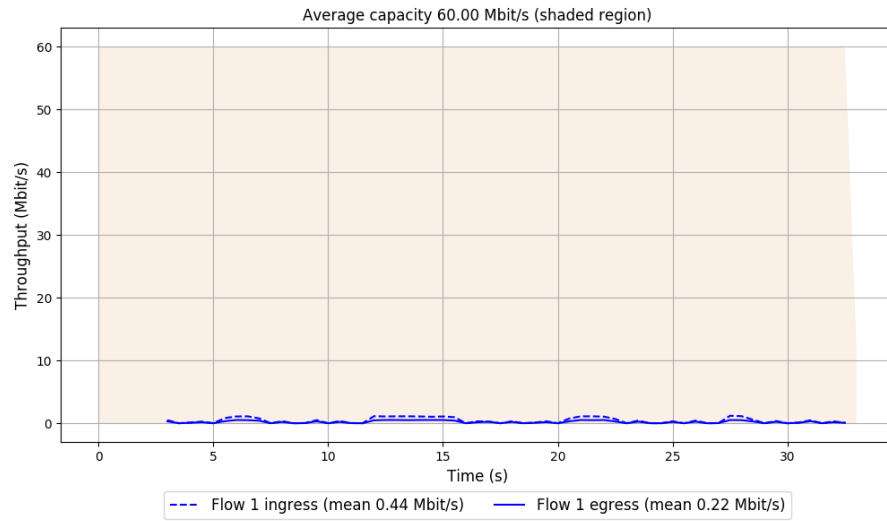
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 11.512 ms

Loss rate: 49.86%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-27 09:29:10

End at: 2018-02-27 09:29:40

Below is generated by plot.py at 2018-02-27 10:39:32

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.19 Mbit/s (0.3% utilization)

95th percentile per-packet one-way delay: 11.499 ms

Loss rate: 49.43%

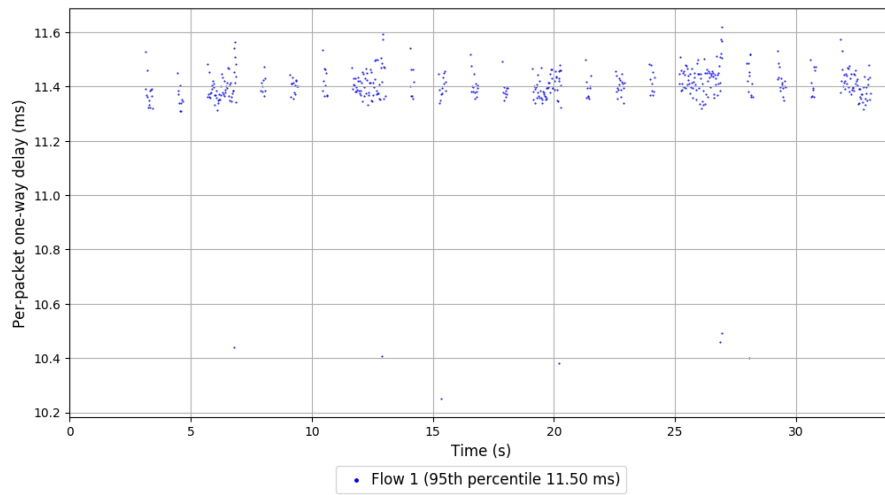
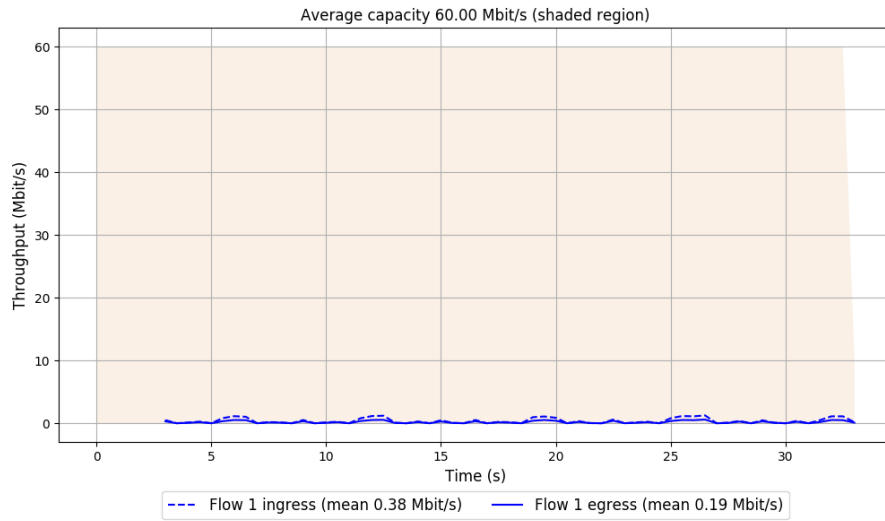
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 11.499 ms

Loss rate: 49.43%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-27 09:39:33

End at: 2018-02-27 09:40:03

Below is generated by plot.py at 2018-02-27 10:39:46

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.19 Mbit/s (0.3% utilization)

95th percentile per-packet one-way delay: 11.507 ms

Loss rate: 48.57%

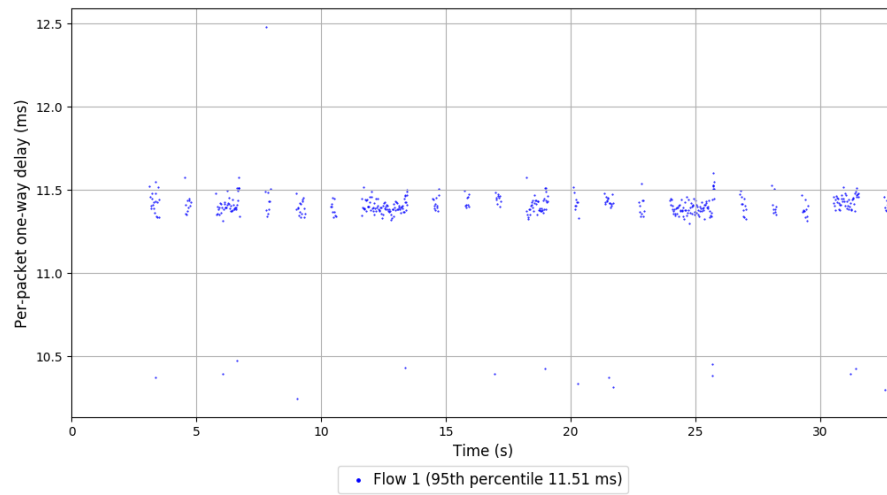
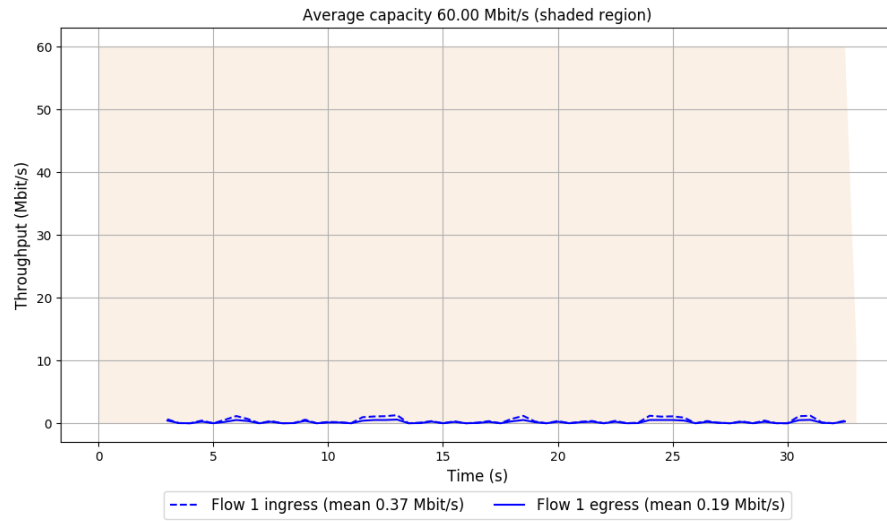
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 11.507 ms

Loss rate: 48.57%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-27 09:50:00

End at: 2018-02-27 09:50:30

Below is generated by plot.py at 2018-02-27 10:39:47

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.19 Mbit/s (0.3% utilization)

95th percentile per-packet one-way delay: 11.513 ms

Loss rate: 49.29%

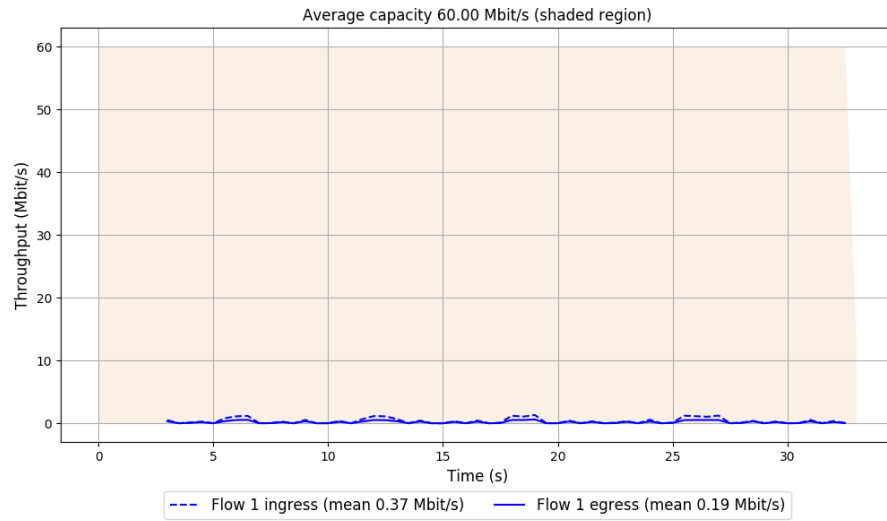
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 11.513 ms

Loss rate: 49.29%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-27 10:00:25

End at: 2018-02-27 10:00:55

Below is generated by plot.py at 2018-02-27 10:39:47

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.26 Mbit/s (0.4% utilization)

95th percentile per-packet one-way delay: 11.474 ms

Loss rate: 50.11%

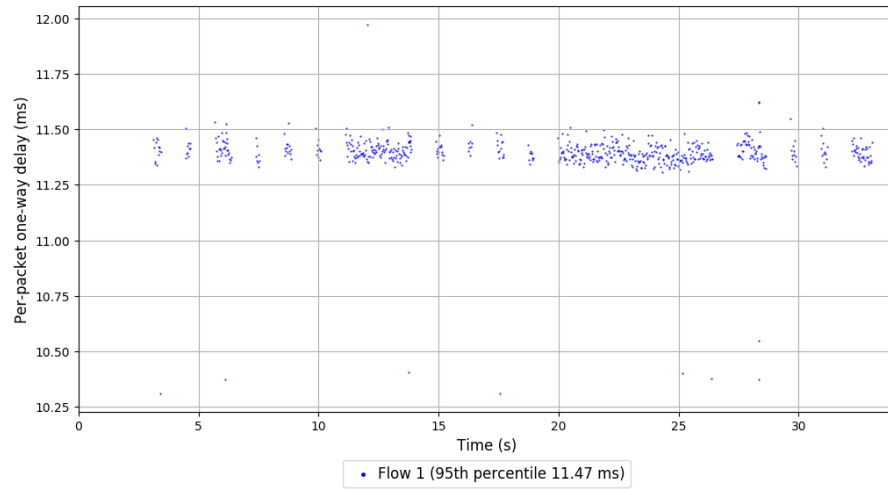
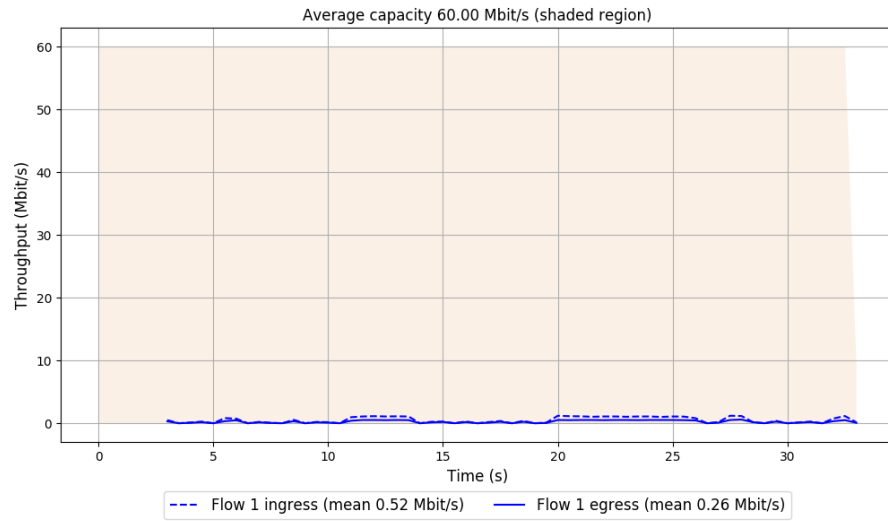
-- Flow 1:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 11.474 ms

Loss rate: 50.11%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-27 10:10:48

End at: 2018-02-27 10:11:18

Below is generated by plot.py at 2018-02-27 10:39:48

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.26 Mbit/s (0.4% utilization)

95th percentile per-packet one-way delay: 11.472 ms

Loss rate: 50.30%

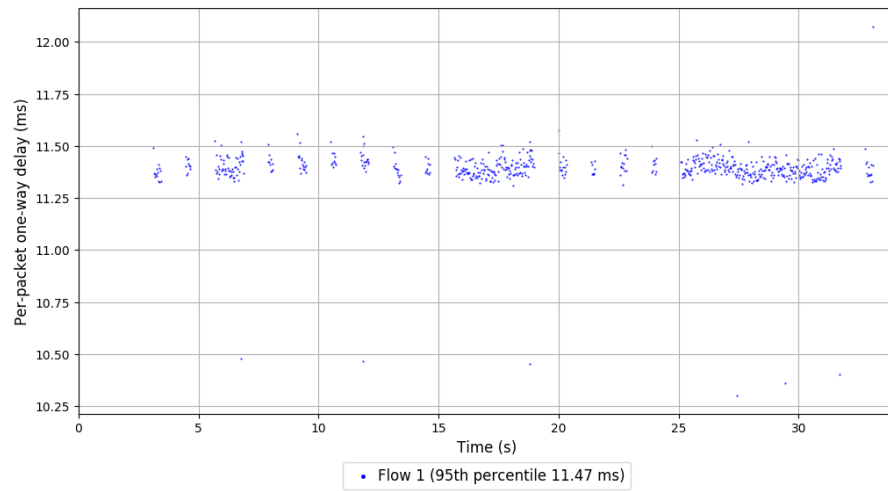
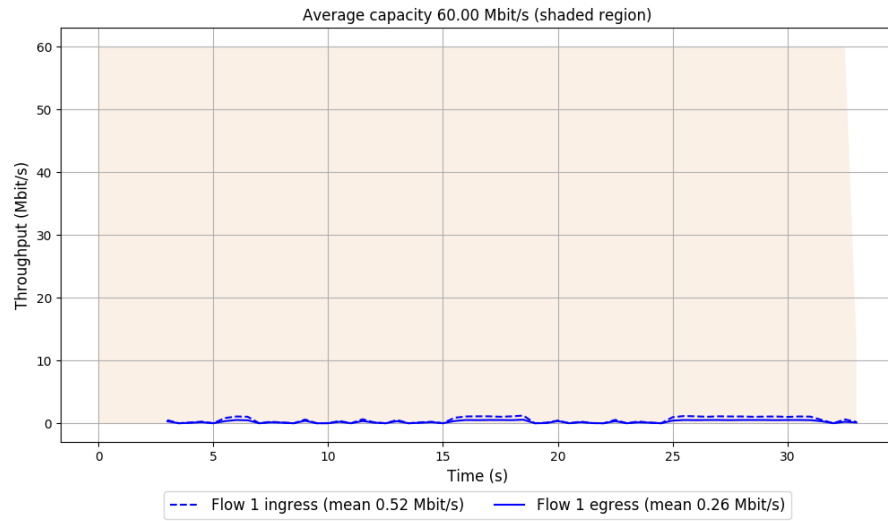
-- Flow 1:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 11.472 ms

Loss rate: 50.30%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-27 10:21:16

End at: 2018-02-27 10:21:46

Below is generated by plot.py at 2018-02-27 10:39:50

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.22 Mbit/s (0.4% utilization)

95th percentile per-packet one-way delay: 11.505 ms

Loss rate: 50.35%

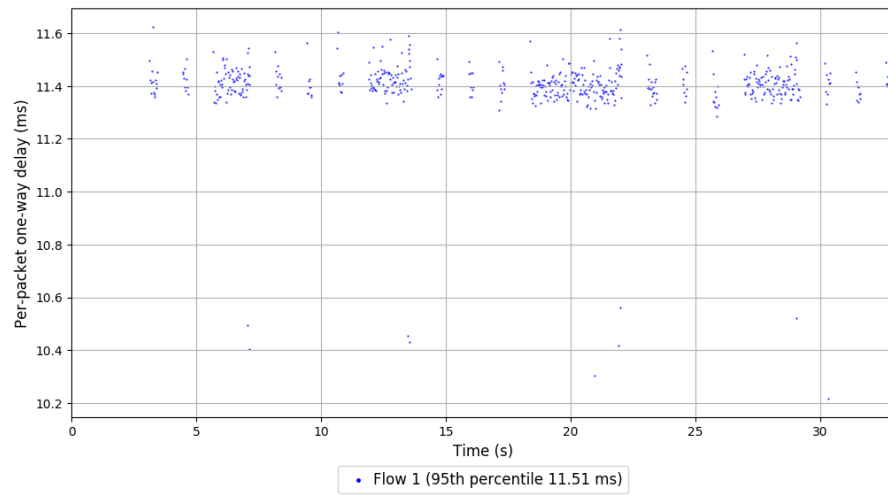
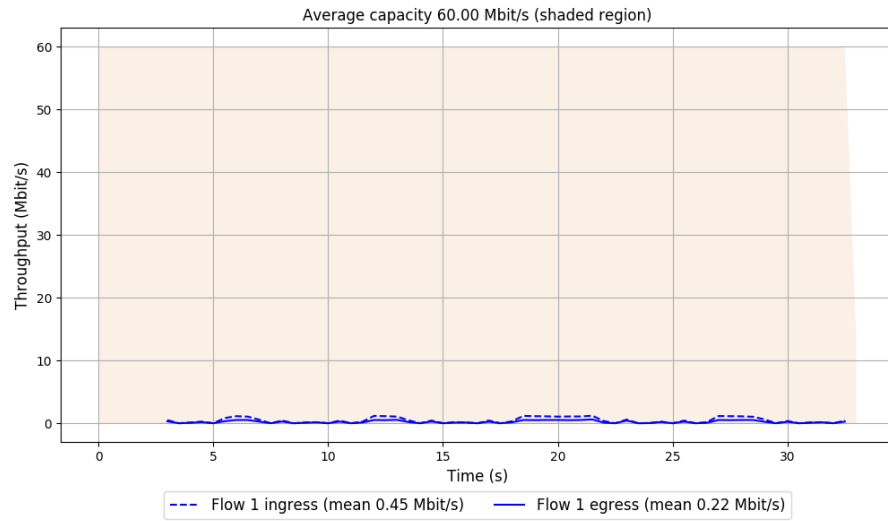
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 11.505 ms

Loss rate: 50.35%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-27 10:31:40

End at: 2018-02-27 10:32:10

Below is generated by plot.py at 2018-02-27 10:39:50

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.19 Mbit/s (0.3% utilization)

95th percentile per-packet one-way delay: 11.534 ms

Loss rate: 49.46%

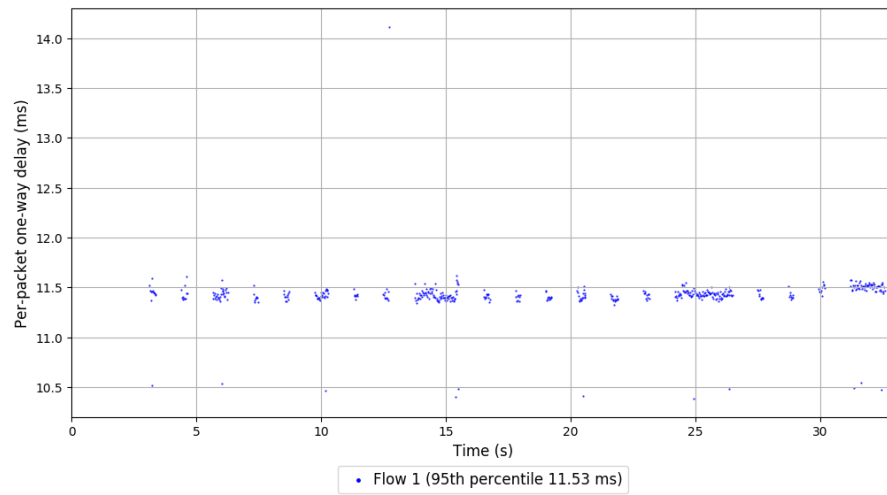
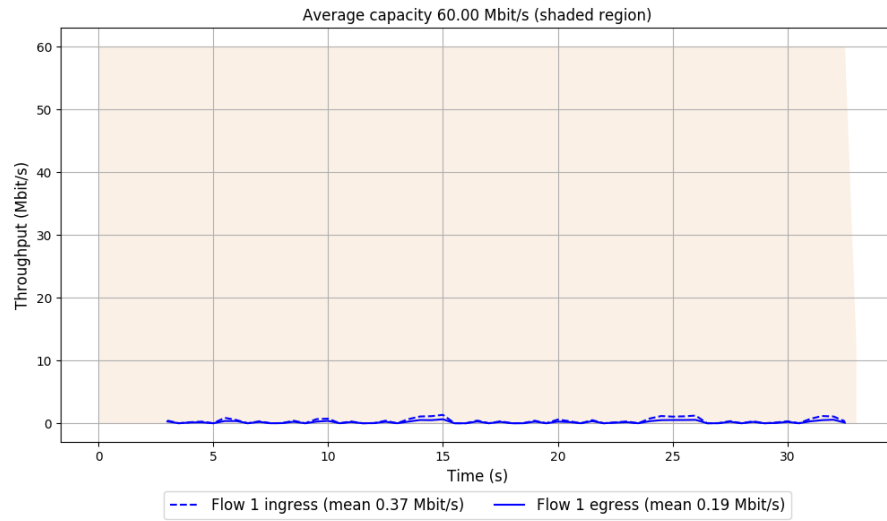
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 11.534 ms

Loss rate: 49.46%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2018-02-27 08:57:23

End at: 2018-02-27 08:57:53

Below is generated by plot.py at 2018-02-27 10:39:55

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 6.03 Mbit/s (10.0% utilization)

95th percentile per-packet one-way delay: 12.008 ms

Loss rate: 3.10%

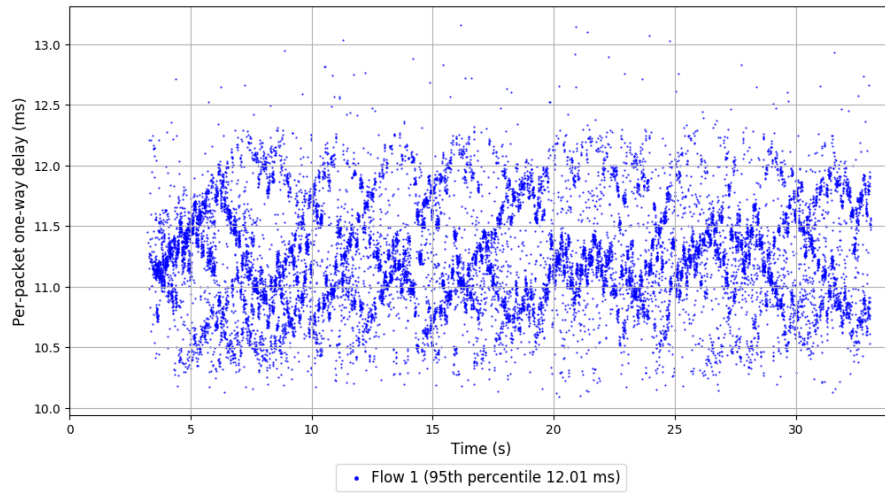
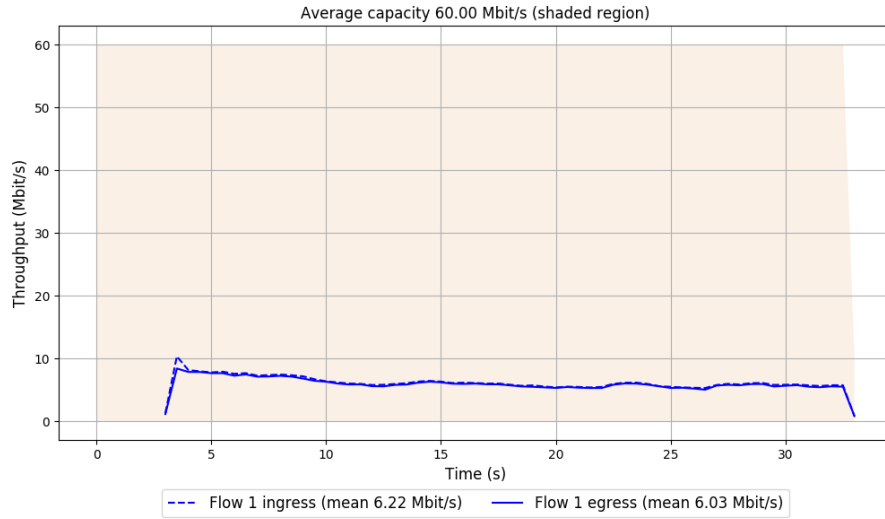
-- Flow 1:

Average throughput: 6.03 Mbit/s

95th percentile per-packet one-way delay: 12.008 ms

Loss rate: 3.10%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-27 09:07:47

End at: 2018-02-27 09:08:17

Below is generated by plot.py at 2018-02-27 10:39:55

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 3.97 Mbit/s (6.6% utilization)

95th percentile per-packet one-way delay: 11.991 ms

Loss rate: 2.94%

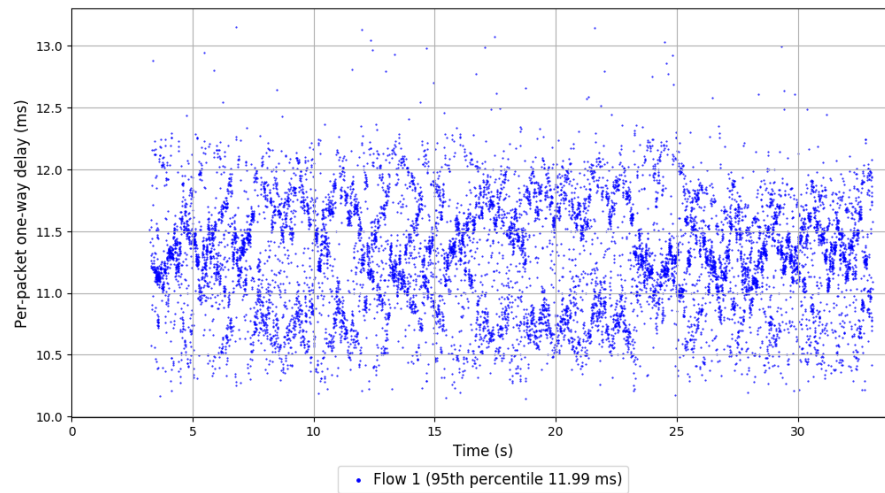
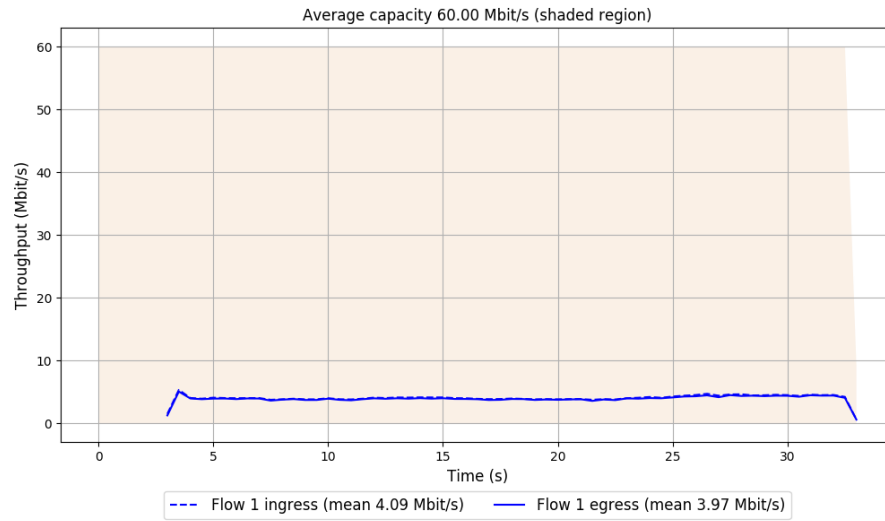
-- Flow 1:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 11.991 ms

Loss rate: 2.94%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-27 09:18:11

End at: 2018-02-27 09:18:41

Below is generated by plot.py at 2018-02-27 10:40:10

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 4.25 Mbit/s (7.1% utilization)

95th percentile per-packet one-way delay: 11.981 ms

Loss rate: 3.15%

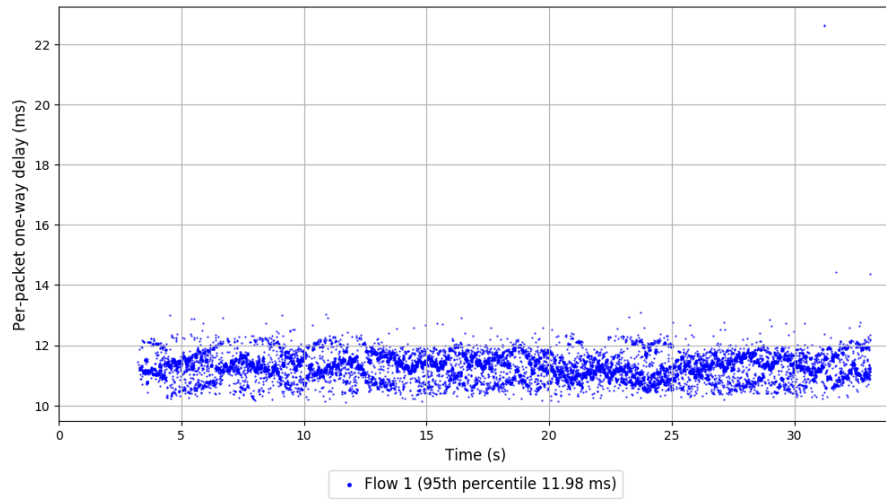
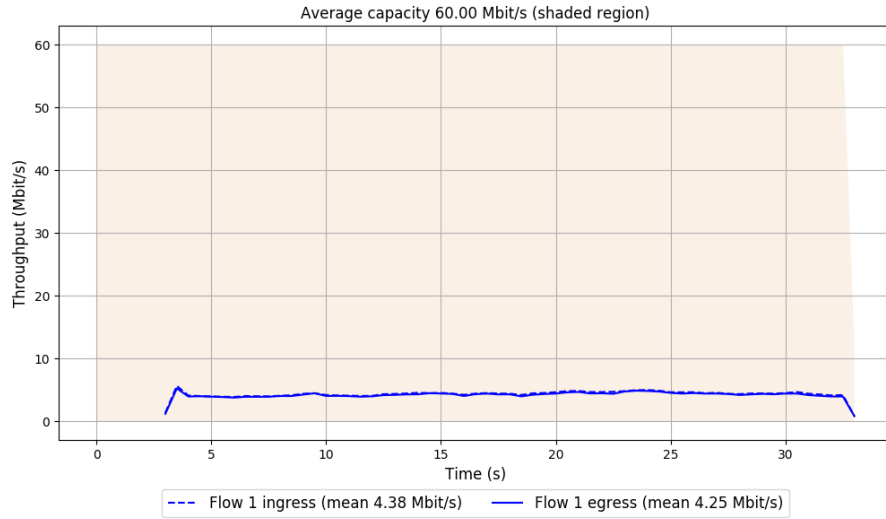
-- Flow 1:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 11.981 ms

Loss rate: 3.15%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-27 09:28:35

End at: 2018-02-27 09:29:05

Below is generated by plot.py at 2018-02-27 10:40:14

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 7.27 Mbit/s (12.1% utilization)

95th percentile per-packet one-way delay: 11.930 ms

Loss rate: 3.32%

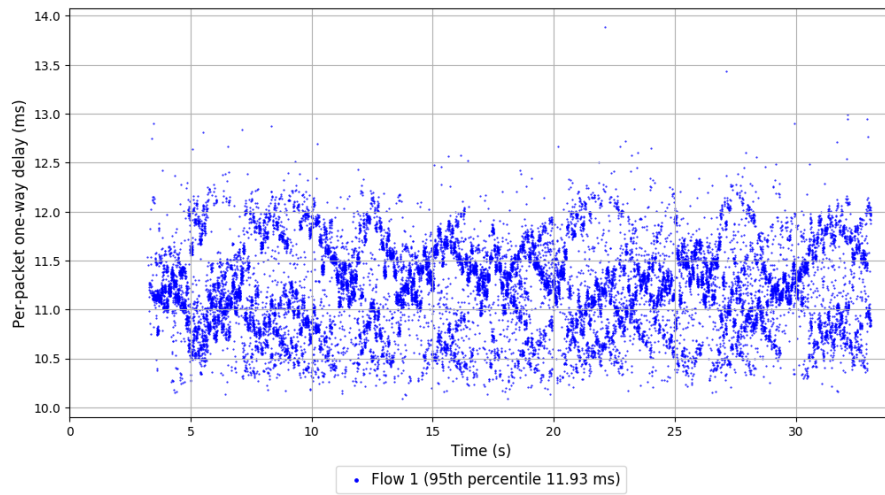
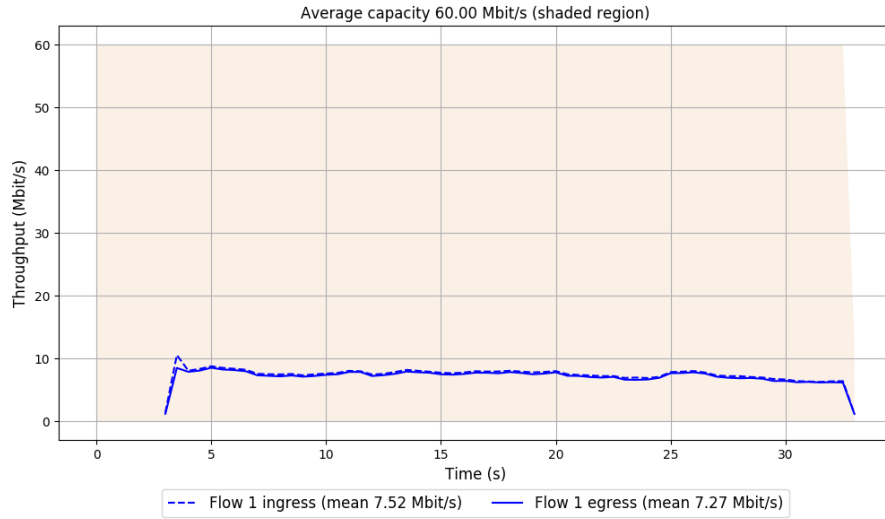
-- Flow 1:

Average throughput: 7.27 Mbit/s

95th percentile per-packet one-way delay: 11.930 ms

Loss rate: 3.32%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-27 09:38:59

End at: 2018-02-27 09:39:29

Below is generated by plot.py at 2018-02-27 10:40:14

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 5.09 Mbit/s (8.5% utilization)

95th percentile per-packet one-way delay: 11.999 ms

Loss rate: 2.84%

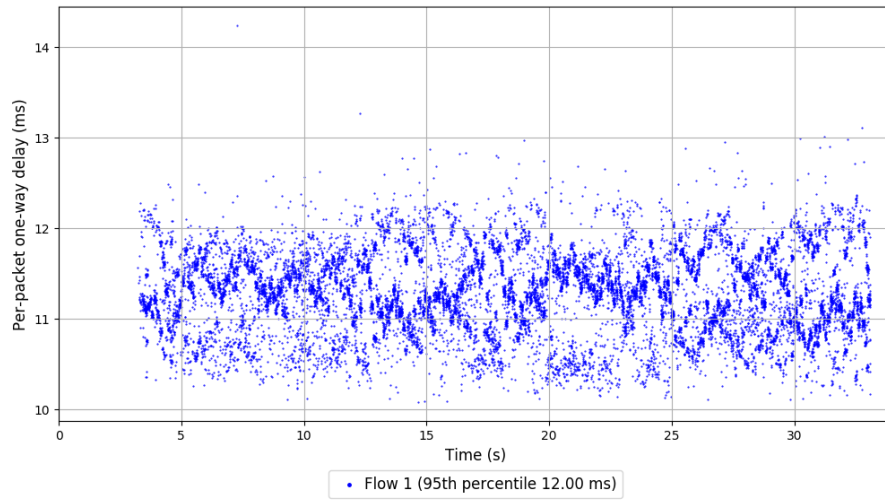
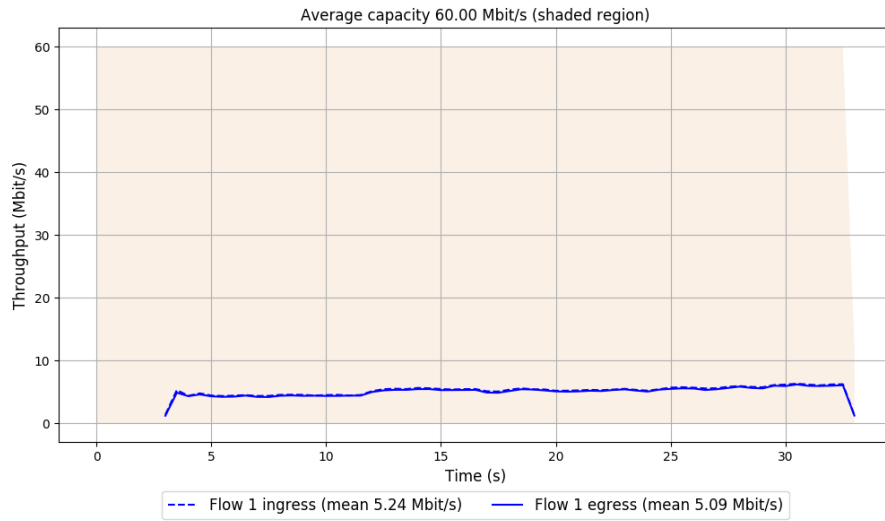
-- Flow 1:

Average throughput: 5.09 Mbit/s

95th percentile per-packet one-way delay: 11.999 ms

Loss rate: 2.84%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-27 09:49:25

End at: 2018-02-27 09:49:55

Below is generated by plot.py at 2018-02-27 10:40:16

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 7.78 Mbit/s (13.0% utilization)

95th percentile per-packet one-way delay: 11.927 ms

Loss rate: 3.42%

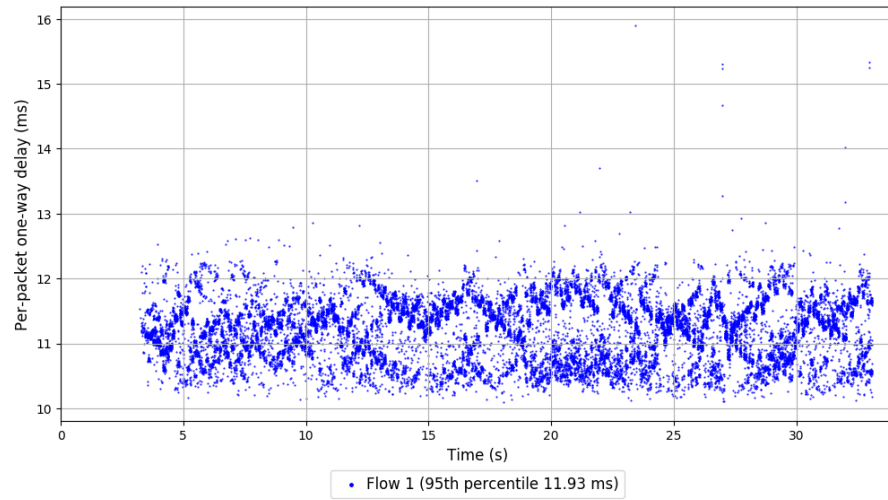
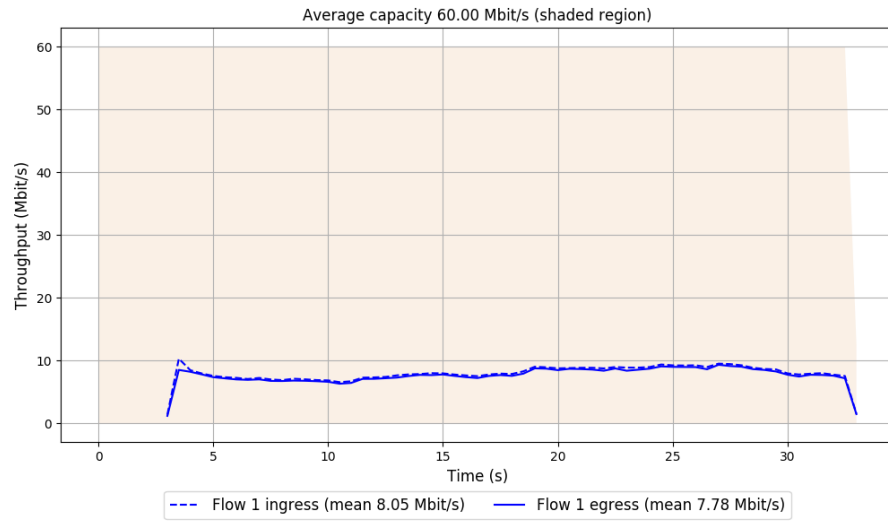
-- Flow 1:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 11.927 ms

Loss rate: 3.42%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-27 09:59:50

End at: 2018-02-27 10:00:20

Below is generated by plot.py at 2018-02-27 10:40:17

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 8.44 Mbit/s (14.1% utilization)

95th percentile per-packet one-way delay: 11.922 ms

Loss rate: 3.41%

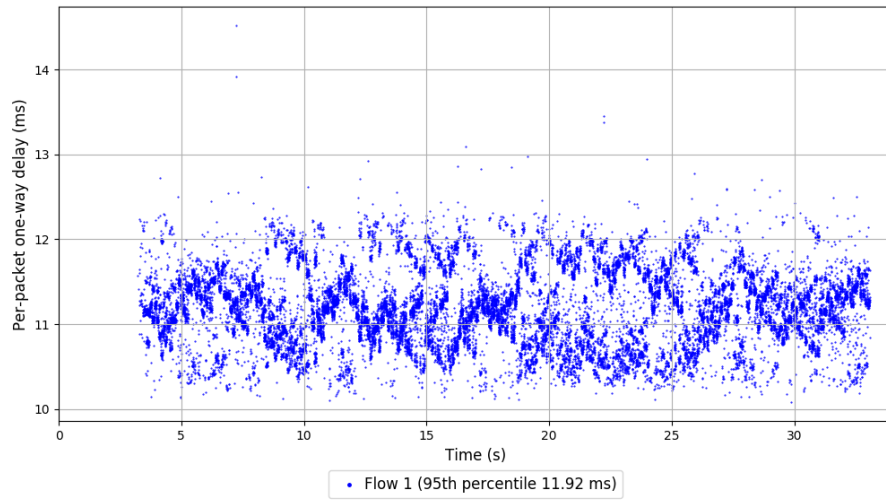
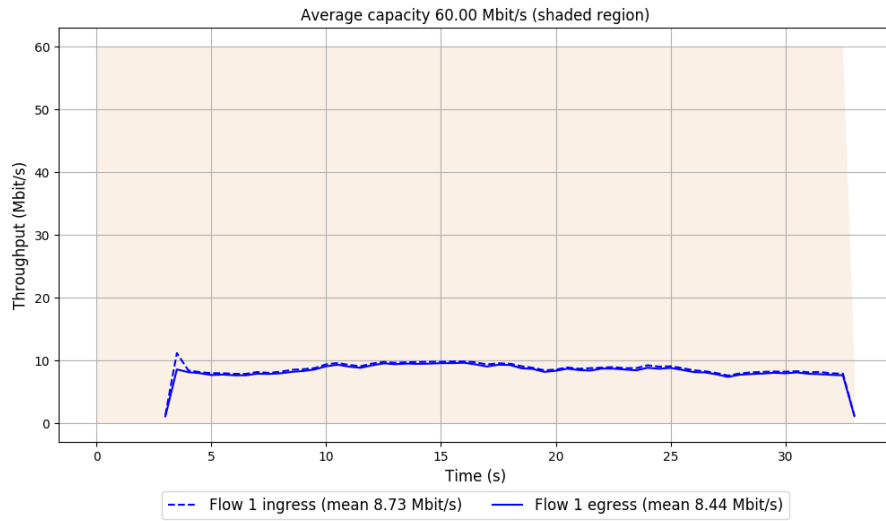
-- Flow 1:

Average throughput: 8.44 Mbit/s

95th percentile per-packet one-way delay: 11.922 ms

Loss rate: 3.41%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-27 10:10:14

End at: 2018-02-27 10:10:44

Below is generated by plot.py at 2018-02-27 10:40:20

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 10.04 Mbit/s (16.7% utilization)

95th percentile per-packet one-way delay: 11.938 ms

Loss rate: 3.59%

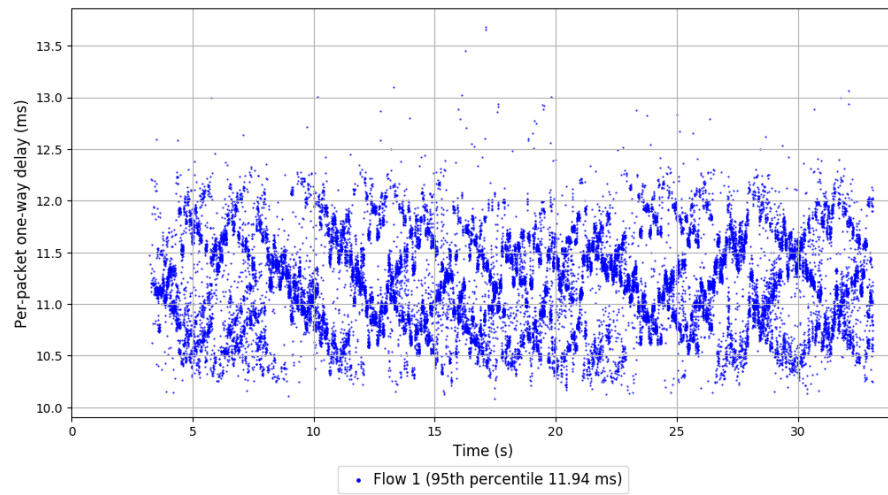
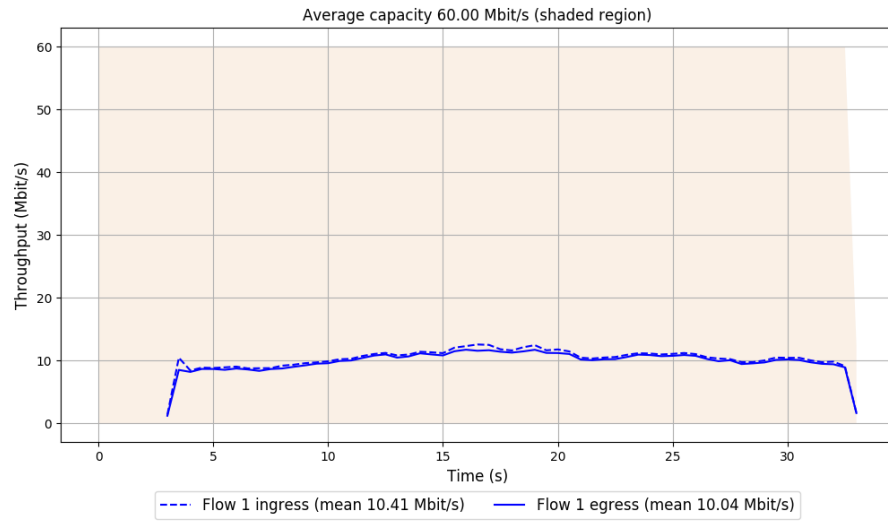
-- Flow 1:

Average throughput: 10.04 Mbit/s

95th percentile per-packet one-way delay: 11.938 ms

Loss rate: 3.59%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-27 10:20:42

End at: 2018-02-27 10:21:12

Below is generated by plot.py at 2018-02-27 10:40:20

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 4.21 Mbit/s (7.0% utilization)

95th percentile per-packet one-way delay: 12.026 ms

Loss rate: 3.26%

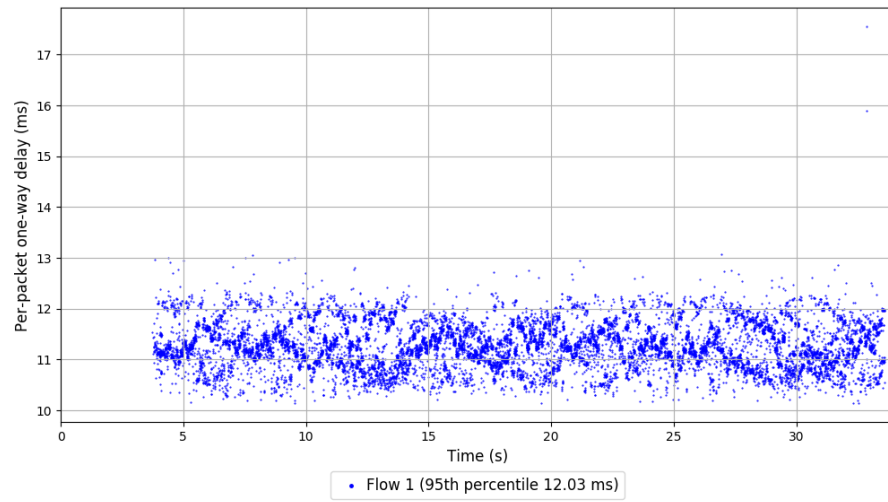
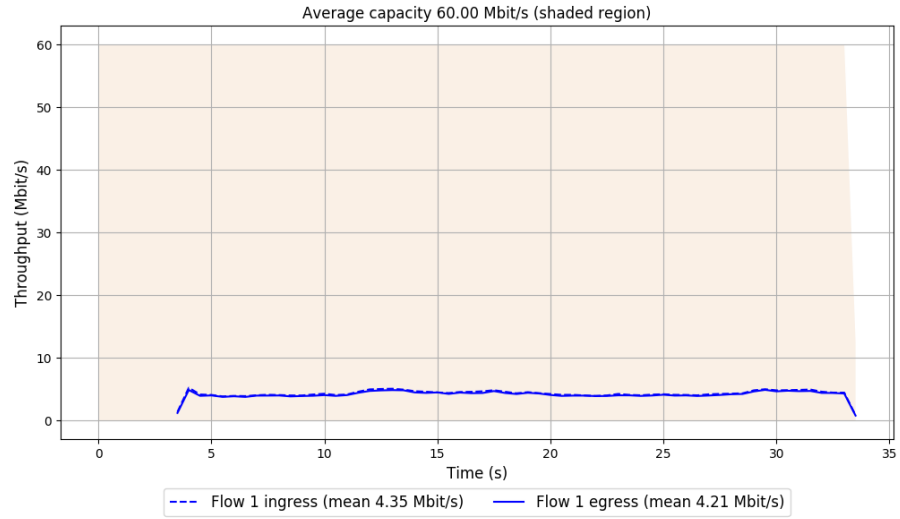
-- Flow 1:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 12.026 ms

Loss rate: 3.26%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-27 10:31:06

End at: 2018-02-27 10:31:36

Below is generated by plot.py at 2018-02-27 10:40:23

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 8.04 Mbit/s (13.4% utilization)

95th percentile per-packet one-way delay: 11.946 ms

Loss rate: 3.48%

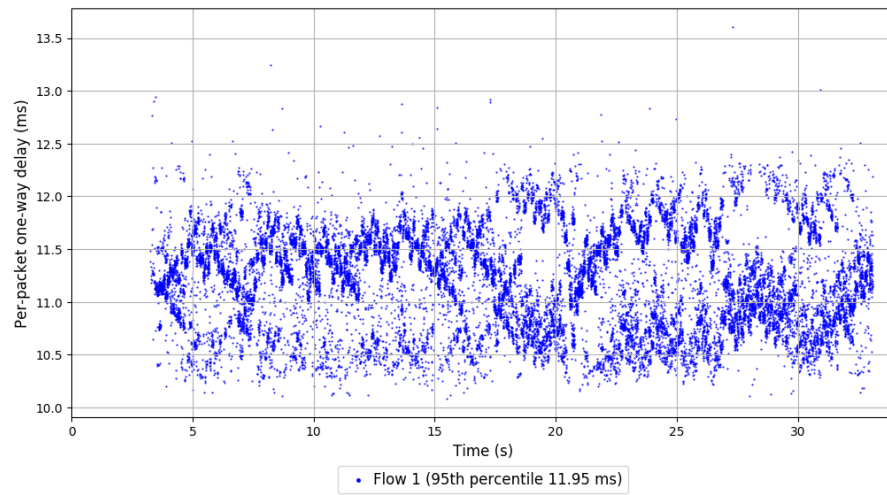
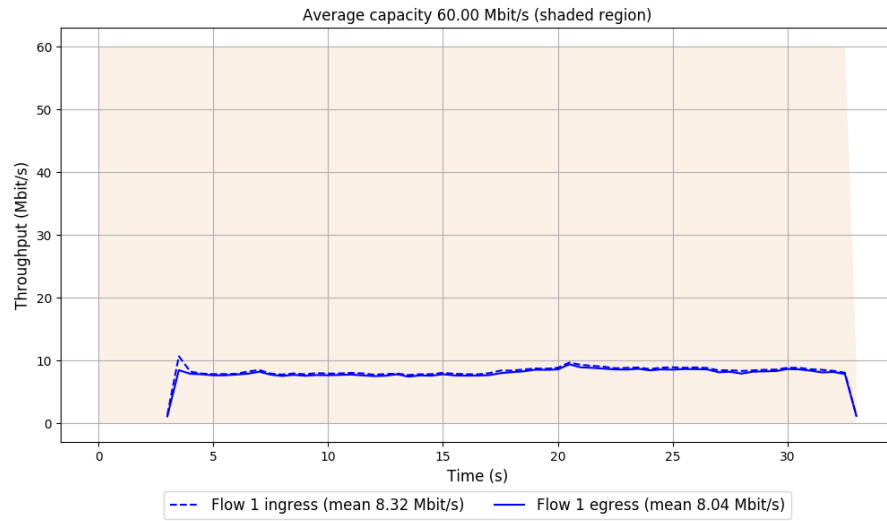
-- Flow 1:

Average throughput: 8.04 Mbit/s

95th percentile per-packet one-way delay: 11.946 ms

Loss rate: 3.48%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-02-27 08:53:56

End at: 2018-02-27 08:54:26

Below is generated by plot.py at 2018-02-27 10:40:35

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 4.31 Mbit/s (7.2% utilization)

95th percentile per-packet one-way delay: 11.857 ms

Loss rate: 7.96%

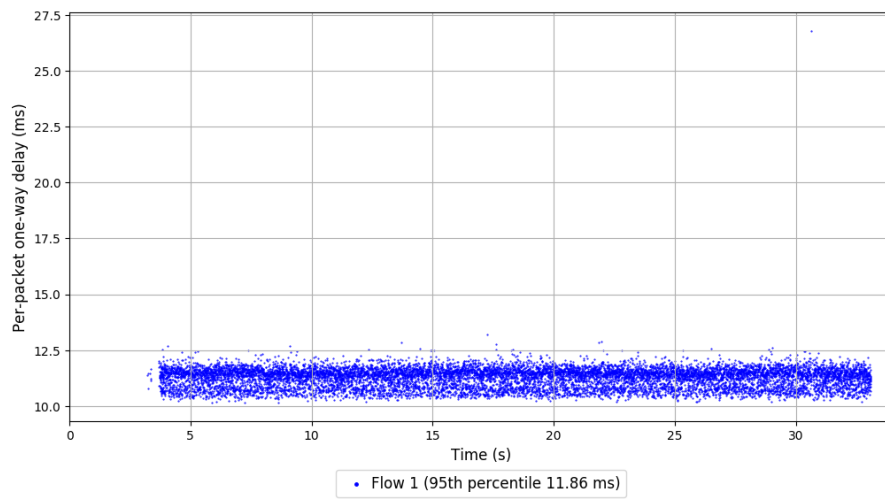
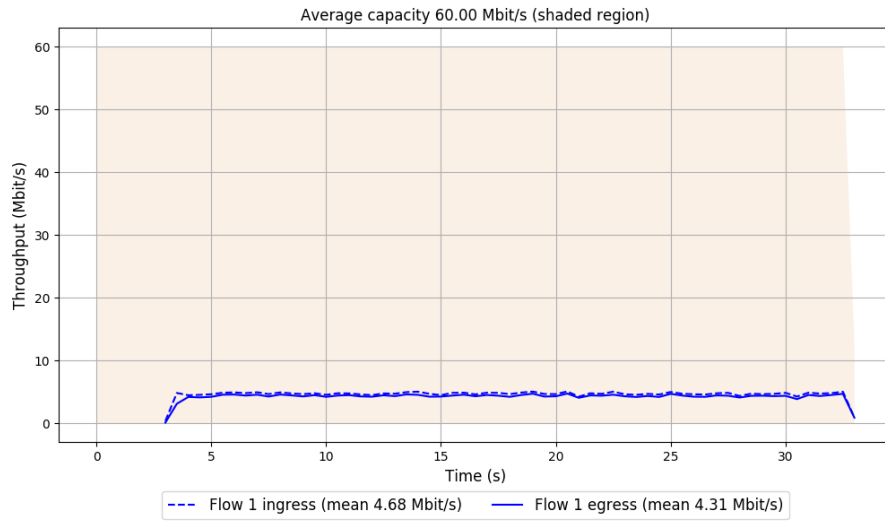
-- Flow 1:

Average throughput: 4.31 Mbit/s

95th percentile per-packet one-way delay: 11.857 ms

Loss rate: 7.96%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-27 09:04:20

End at: 2018-02-27 09:04:50

Below is generated by plot.py at 2018-02-27 10:40:36

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 4.27 Mbit/s (7.1% utilization)

95th percentile per-packet one-way delay: 11.846 ms

Loss rate: 7.95%

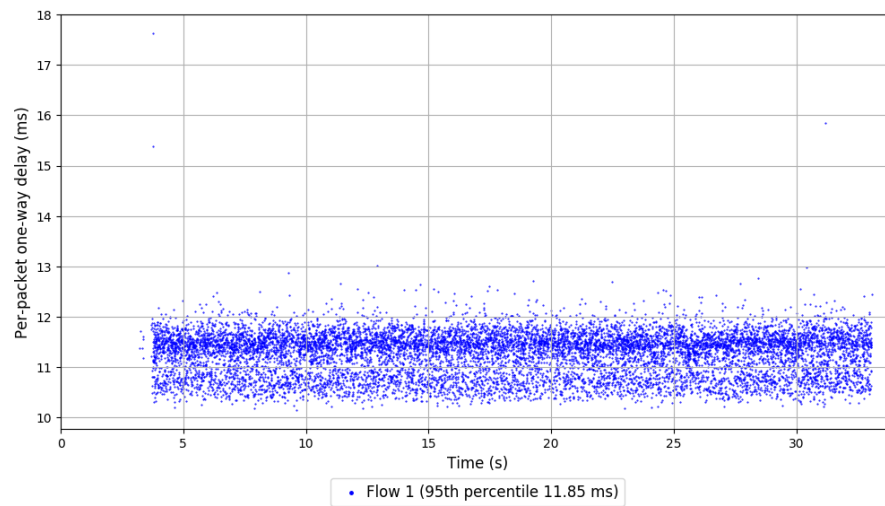
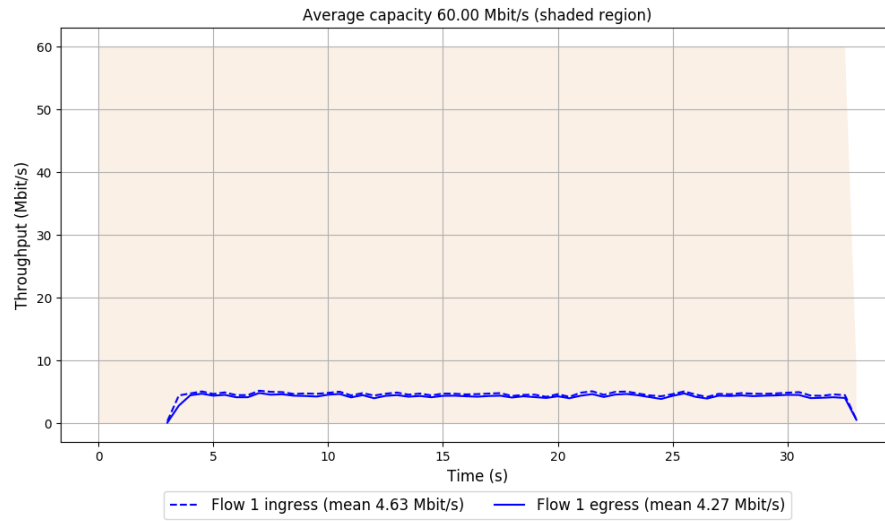
-- Flow 1:

Average throughput: 4.27 Mbit/s

95th percentile per-packet one-way delay: 11.846 ms

Loss rate: 7.95%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-27 09:14:44

End at: 2018-02-27 09:15:14

Below is generated by plot.py at 2018-02-27 10:40:39

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 4.32 Mbit/s (7.2% utilization)

95th percentile per-packet one-way delay: 11.845 ms

Loss rate: 8.04%

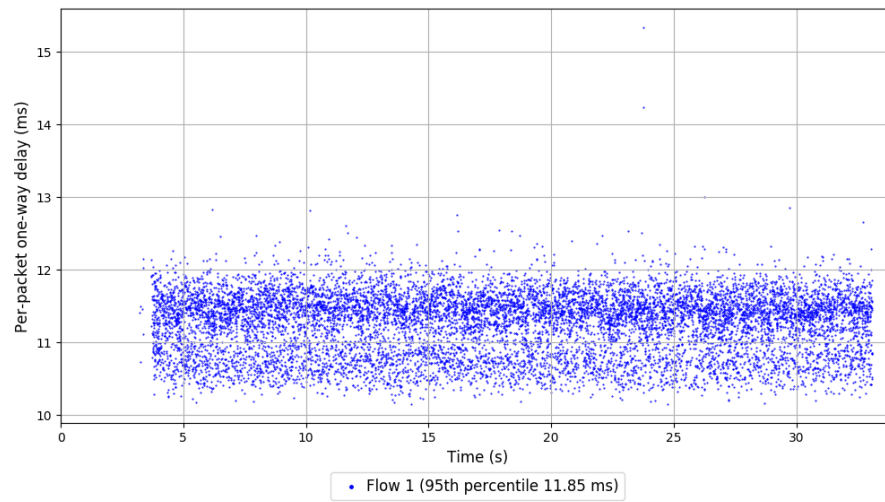
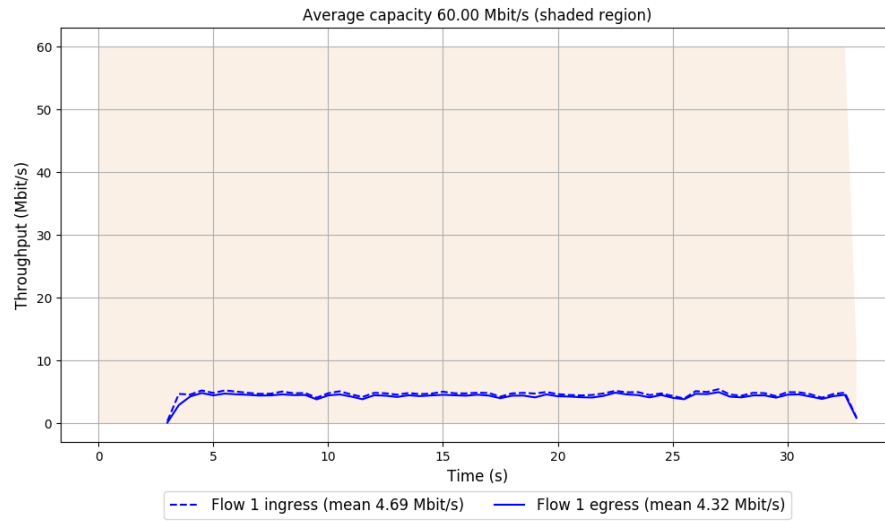
-- Flow 1:

Average throughput: 4.32 Mbit/s

95th percentile per-packet one-way delay: 11.845 ms

Loss rate: 8.04%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-27 09:25:08

End at: 2018-02-27 09:25:38

Below is generated by plot.py at 2018-02-27 10:40:40

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 4.27 Mbit/s (7.1% utilization)

95th percentile per-packet one-way delay: 11.853 ms

Loss rate: 7.50%

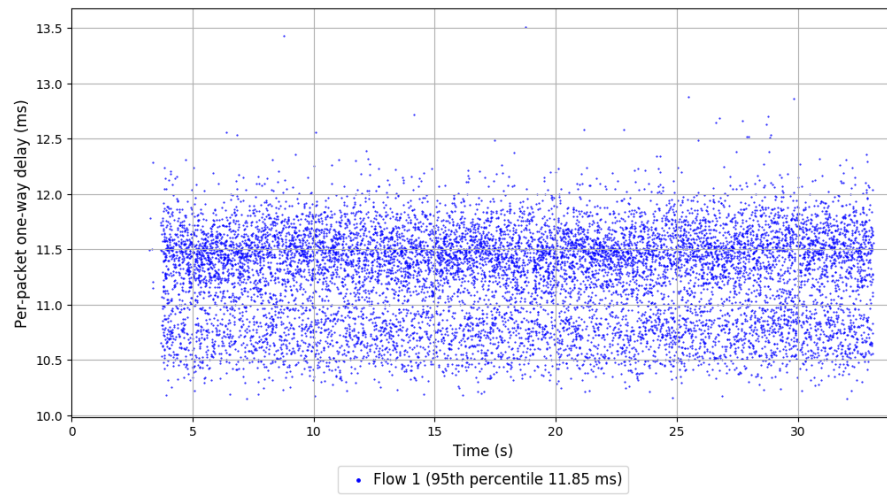
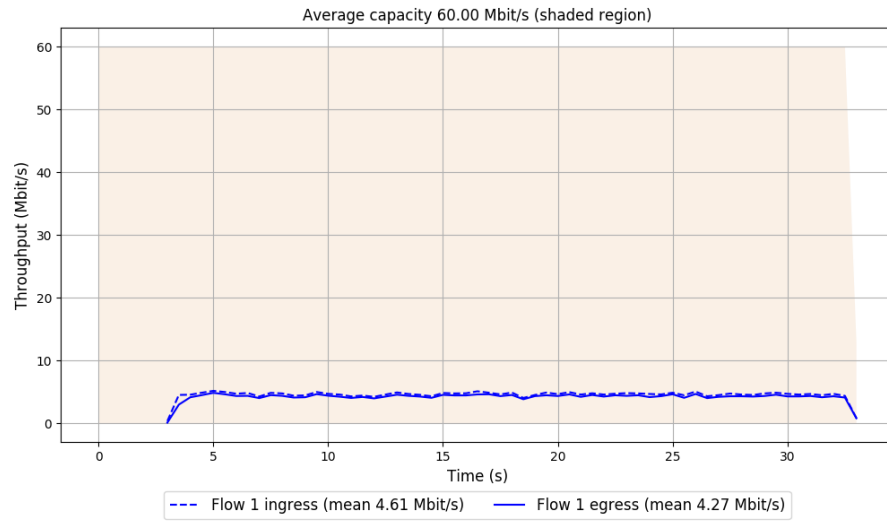
-- Flow 1:

Average throughput: 4.27 Mbit/s

95th percentile per-packet one-way delay: 11.853 ms

Loss rate: 7.50%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-27 09:35:32

End at: 2018-02-27 09:36:02

Below is generated by plot.py at 2018-02-27 10:40:40

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 4.28 Mbit/s (7.1% utilization)

95th percentile per-packet one-way delay: 11.852 ms

Loss rate: 7.96%

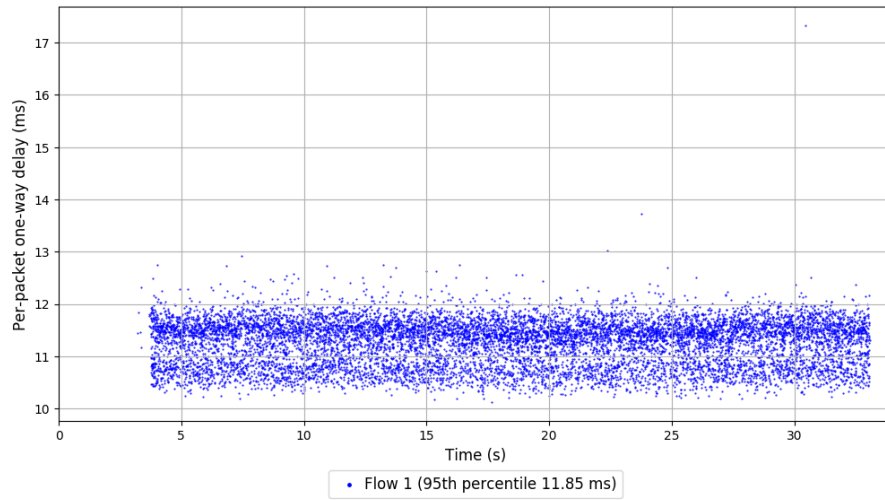
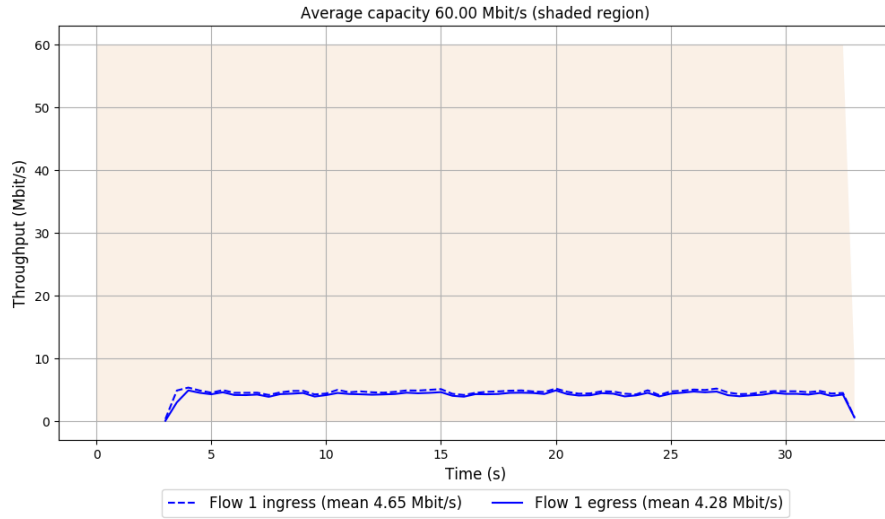
-- Flow 1:

Average throughput: 4.28 Mbit/s

95th percentile per-packet one-way delay: 11.852 ms

Loss rate: 7.96%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-27 09:45:59

End at: 2018-02-27 09:46:29

Below is generated by plot.py at 2018-02-27 10:40:43

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 4.24 Mbit/s (7.1% utilization)

95th percentile per-packet one-way delay: 11.890 ms

Loss rate: 7.91%

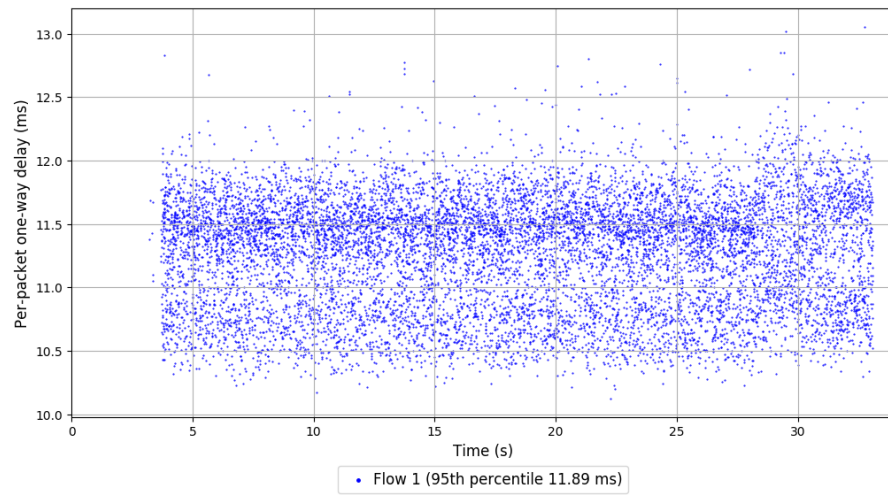
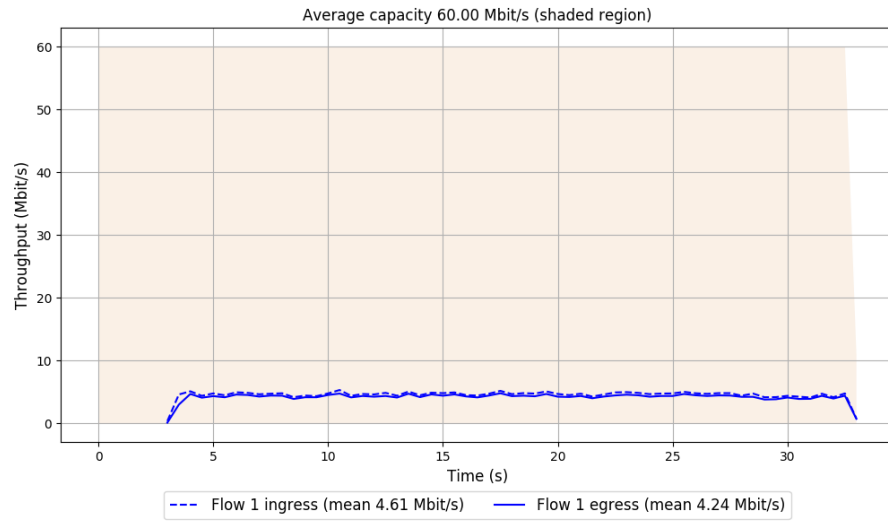
-- Flow 1:

Average throughput: 4.24 Mbit/s

95th percentile per-packet one-way delay: 11.890 ms

Loss rate: 7.91%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-27 09:56:24

End at: 2018-02-27 09:56:54

Below is generated by plot.py at 2018-02-27 10:40:44

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 4.26 Mbit/s (7.1% utilization)

95th percentile per-packet one-way delay: 11.853 ms

Loss rate: 7.99%

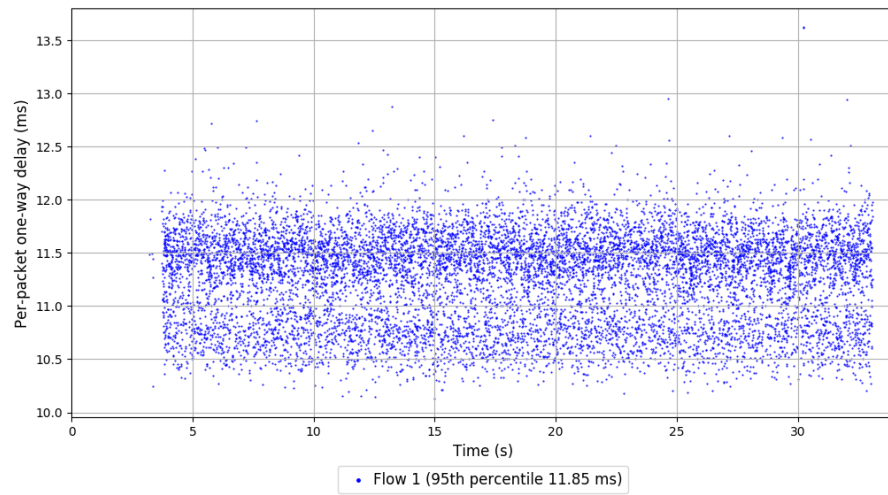
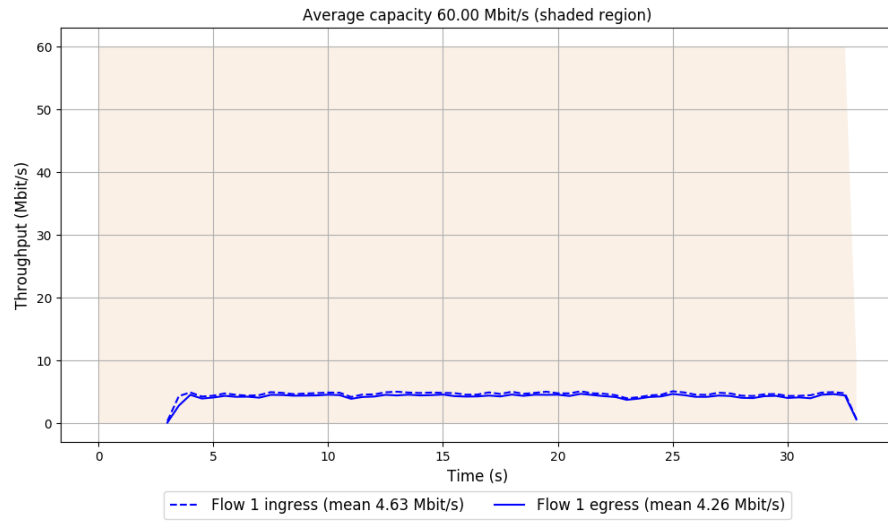
-- Flow 1:

Average throughput: 4.26 Mbit/s

95th percentile per-packet one-way delay: 11.853 ms

Loss rate: 7.99%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-27 10:06:47

End at: 2018-02-27 10:07:17

Below is generated by plot.py at 2018-02-27 10:40:47

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 4.28 Mbit/s (7.1% utilization)

95th percentile per-packet one-way delay: 11.847 ms

Loss rate: 8.04%

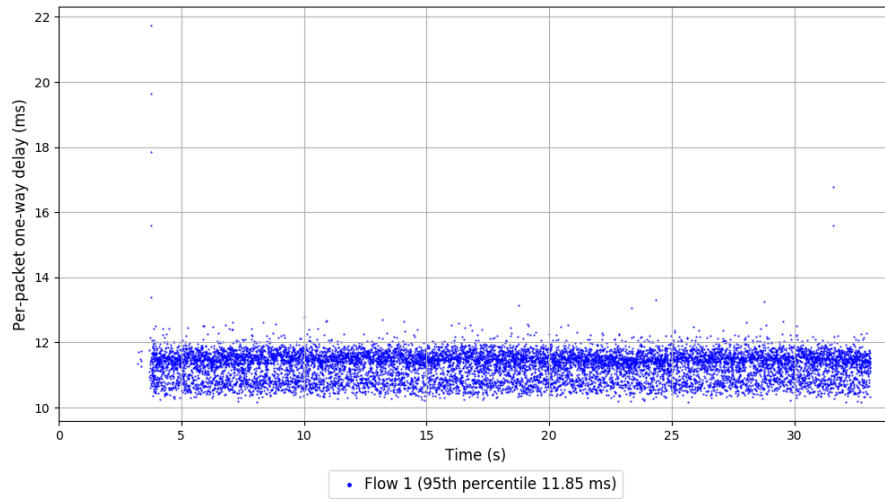
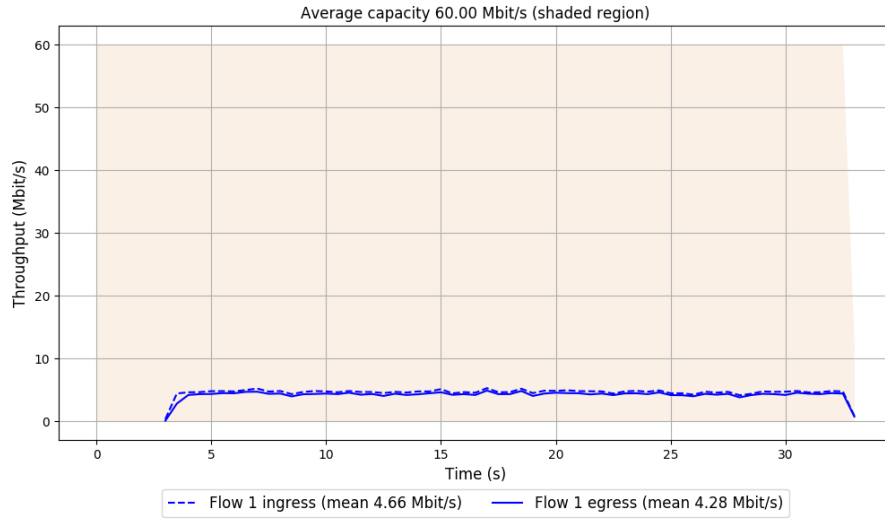
-- Flow 1:

Average throughput: 4.28 Mbit/s

95th percentile per-packet one-way delay: 11.847 ms

Loss rate: 8.04%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-27 10:17:15

End at: 2018-02-27 10:17:45

Below is generated by plot.py at 2018-02-27 10:41:01

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 4.15 Mbit/s (6.9% utilization)

95th percentile per-packet one-way delay: 11.952 ms

Loss rate: 8.27%

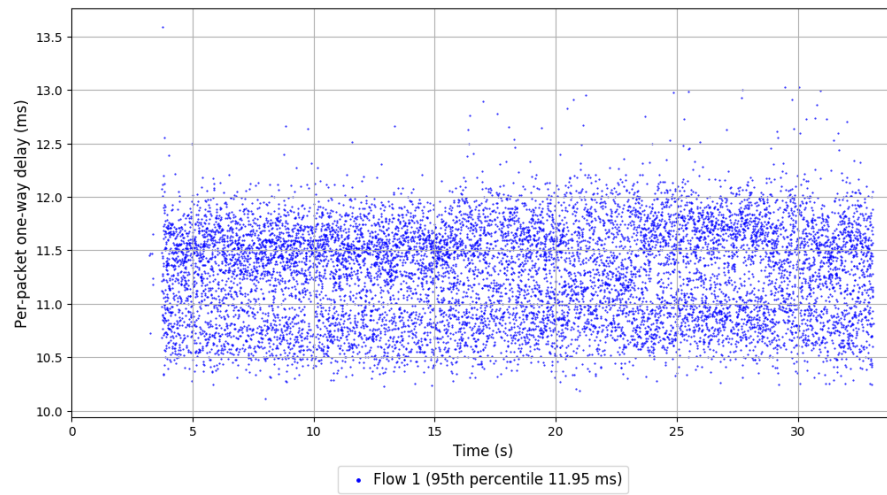
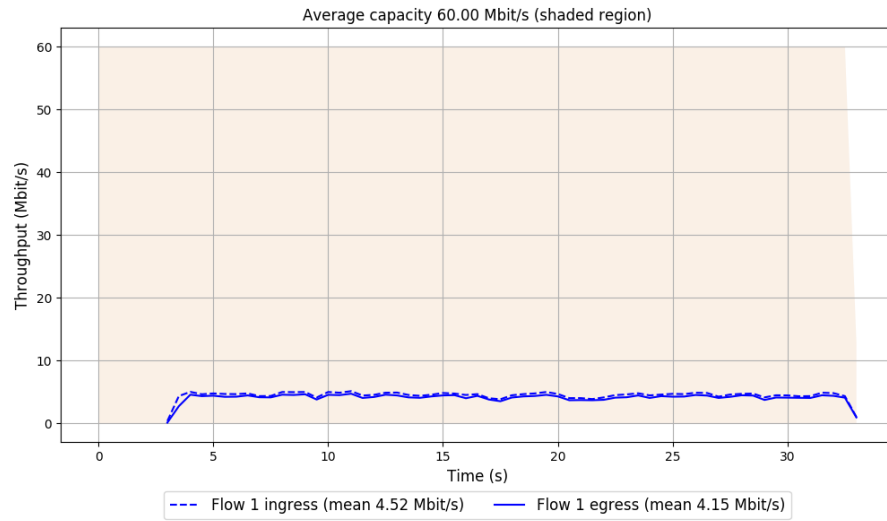
-- Flow 1:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 11.952 ms

Loss rate: 8.27%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-27 10:27:39

End at: 2018-02-27 10:28:09

Below is generated by plot.py at 2018-02-27 10:41:01

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 4.25 Mbit/s (7.1% utilization)

95th percentile per-packet one-way delay: 11.847 ms

Loss rate: 8.03%

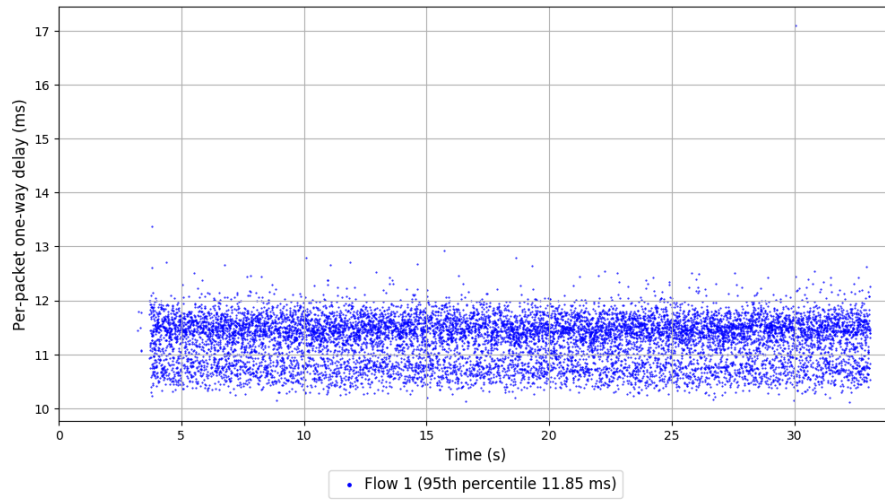
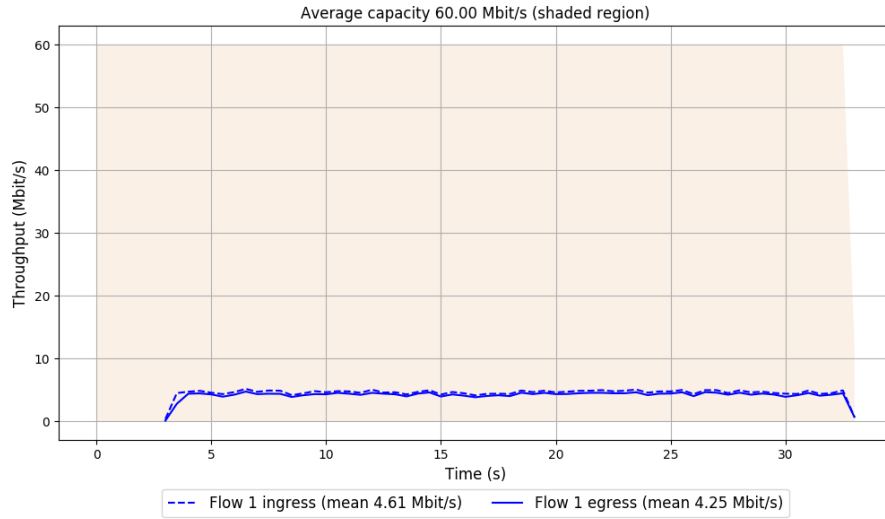
-- Flow 1:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 11.847 ms

Loss rate: 8.03%

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2018-02-27 09:02:37

End at: 2018-02-27 09:03:07

Below is generated by plot.py at 2018-02-27 10:41:01

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.21 Mbit/s (0.4% utilization)

95th percentile per-packet one-way delay: 11.506 ms

Loss rate: 0.00%

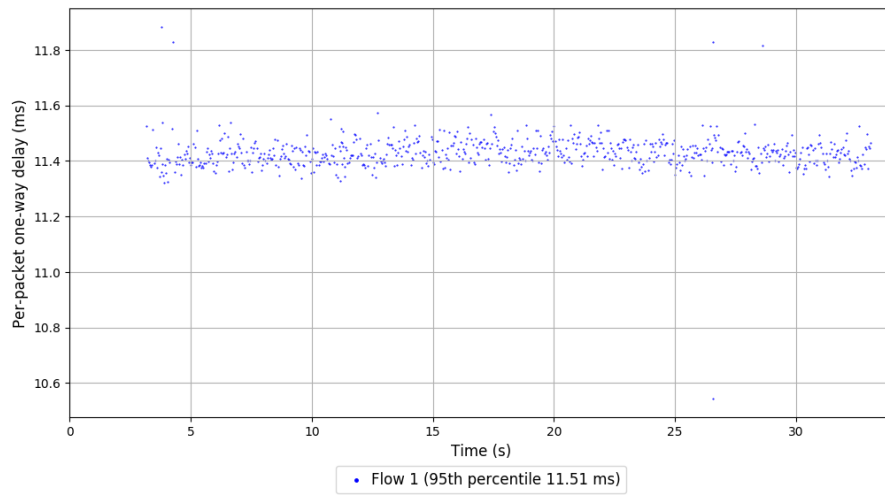
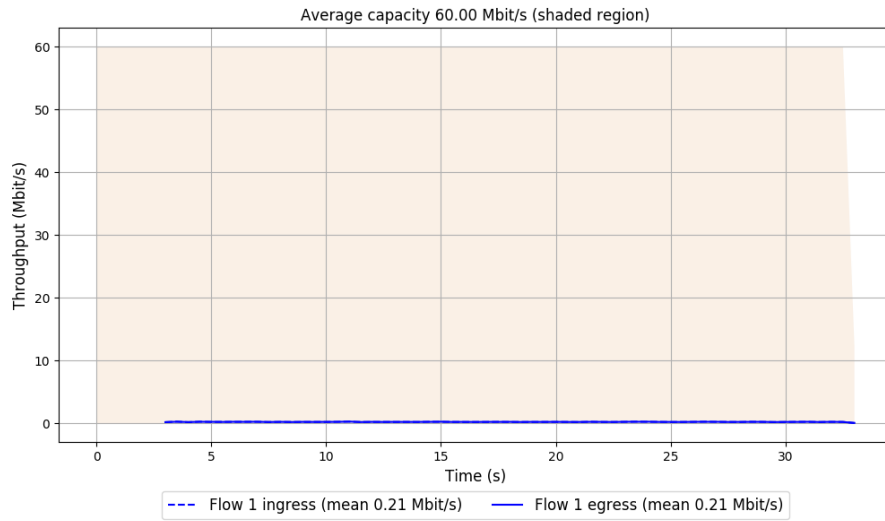
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 11.506 ms

Loss rate: 0.00%

Run 1: Report of SCReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-02-27 09:13:01

End at: 2018-02-27 09:13:31

Below is generated by plot.py at 2018-02-27 10:41:01

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.21 Mbit/s (0.4% utilization)

95th percentile per-packet one-way delay: 11.534 ms

Loss rate: 0.00%

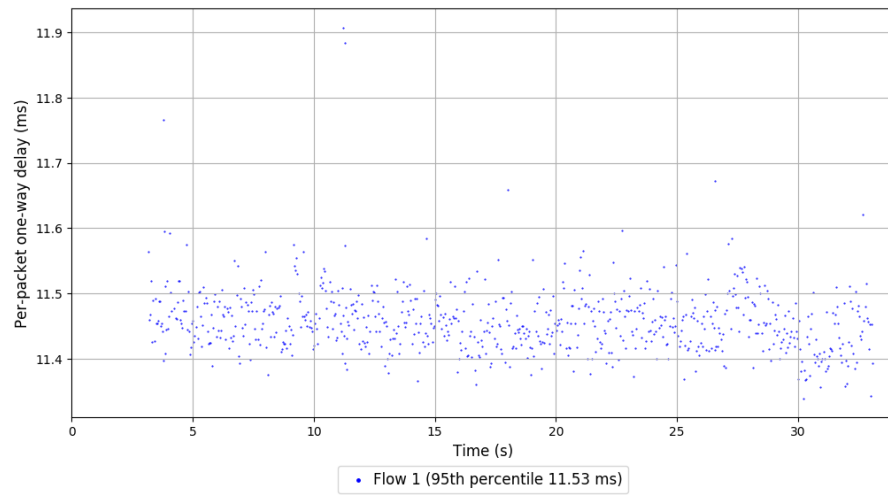
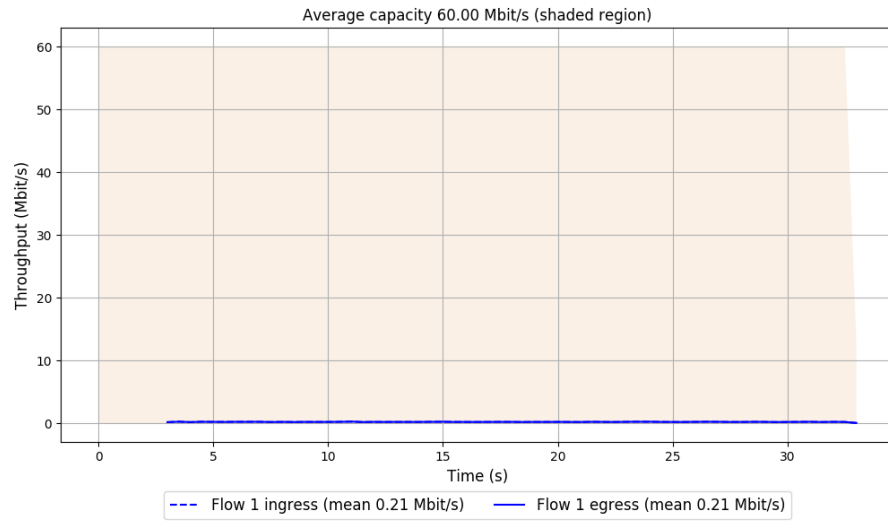
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 11.534 ms

Loss rate: 0.00%

Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-27 09:23:25

End at: 2018-02-27 09:23:56

Below is generated by plot.py at 2018-02-27 10:41:01

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.21 Mbit/s (0.4% utilization)

95th percentile per-packet one-way delay: 11.515 ms

Loss rate: 0.00%

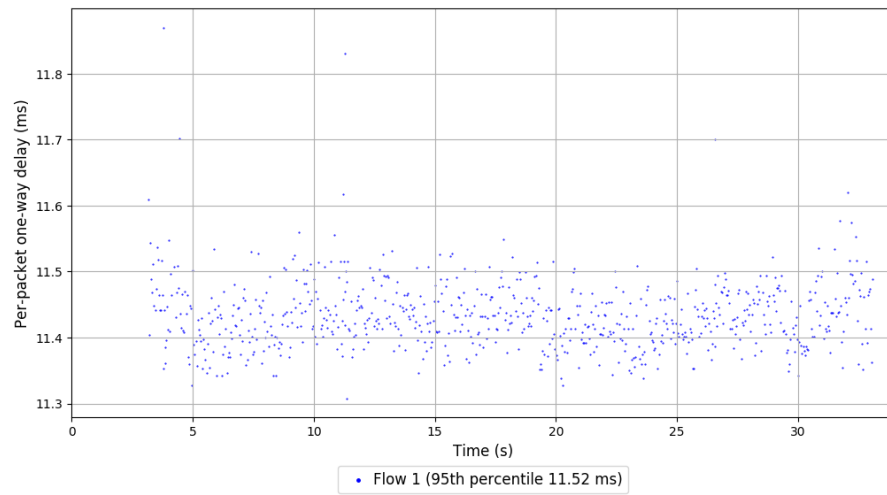
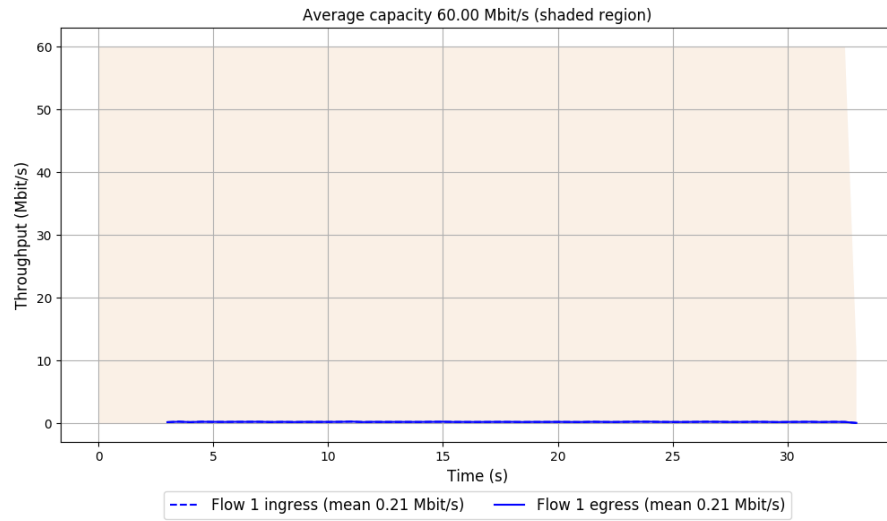
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 11.515 ms

Loss rate: 0.00%

Run 3: Report of SCReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-02-27 09:33:49

End at: 2018-02-27 09:34:19

Below is generated by plot.py at 2018-02-27 10:41:03

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.21 Mbit/s (0.4% utilization)

95th percentile per-packet one-way delay: 11.527 ms

Loss rate: 0.00%

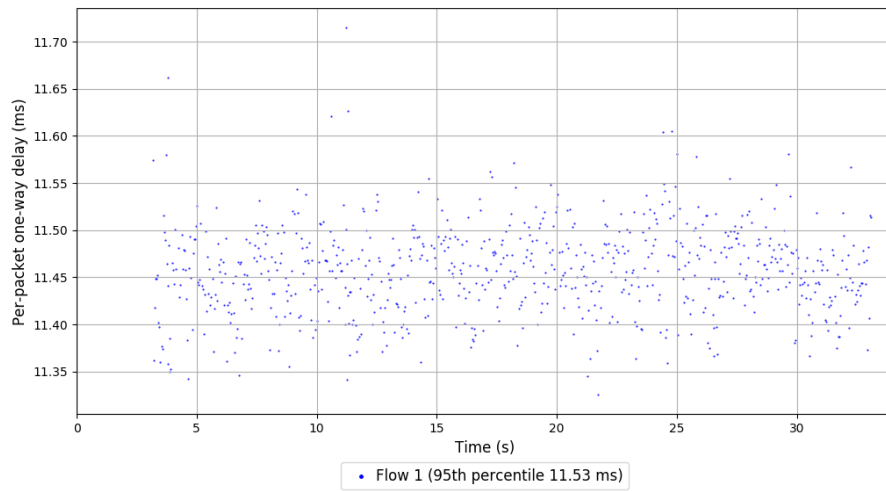
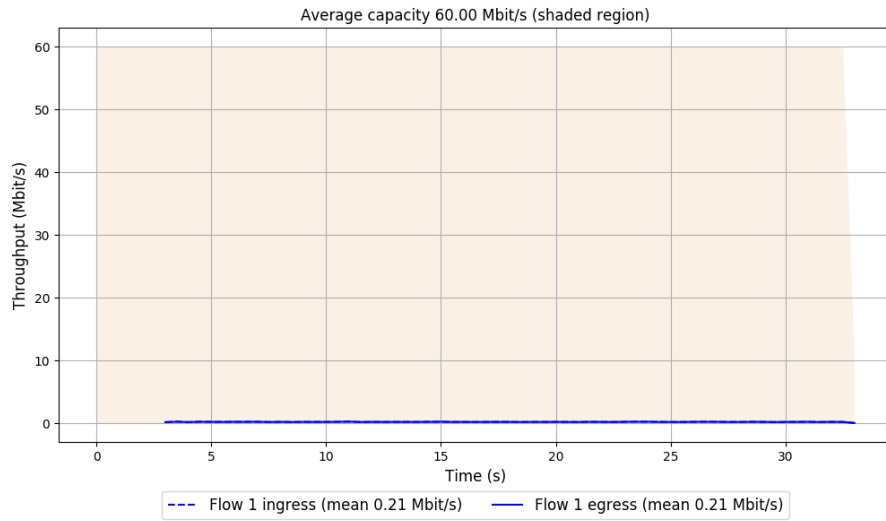
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 11.527 ms

Loss rate: 0.00%

Run 4: Report of SCReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-27 09:44:15

End at: 2018-02-27 09:44:45

Below is generated by plot.py at 2018-02-27 10:41:04

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.21 Mbit/s (0.4% utilization)

95th percentile per-packet one-way delay: 11.534 ms

Loss rate: 0.00%

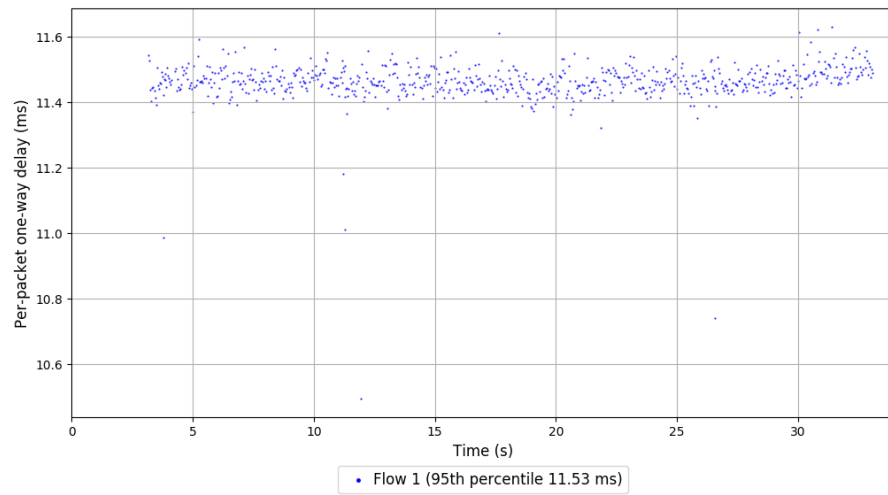
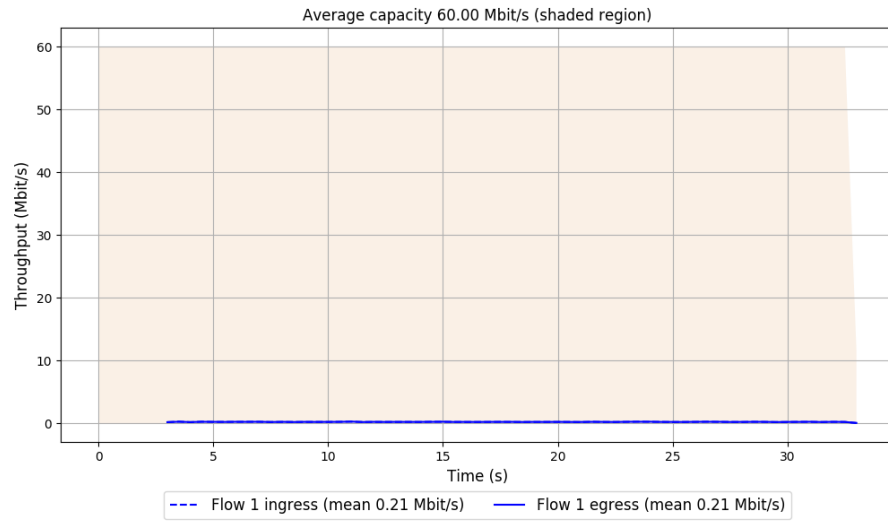
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 11.534 ms

Loss rate: 0.00%

Run 5: Report of SCReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-27 09:54:40

End at: 2018-02-27 09:55:11

Below is generated by plot.py at 2018-02-27 10:41:07

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.21 Mbit/s (0.4% utilization)

95th percentile per-packet one-way delay: 11.522 ms

Loss rate: 0.00%

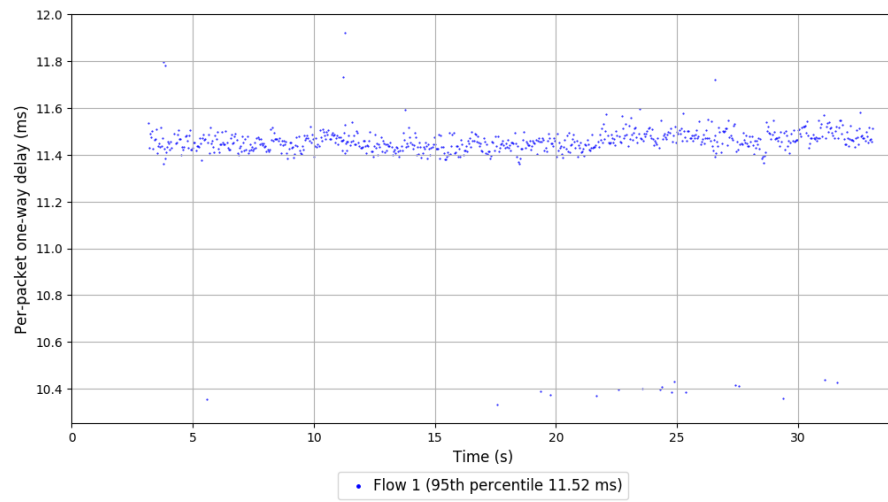
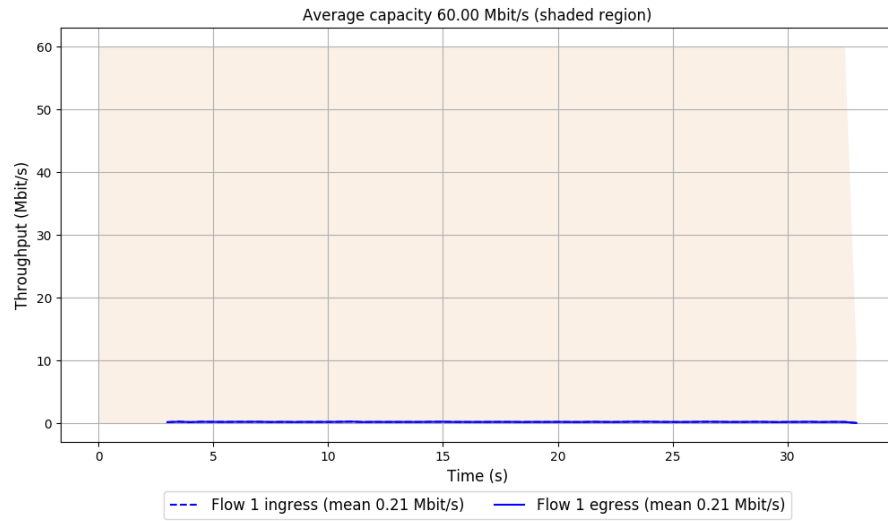
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 11.522 ms

Loss rate: 0.00%

Run 6: Report of SCReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-27 10:05:04

End at: 2018-02-27 10:05:34

Below is generated by plot.py at 2018-02-27 10:41:16

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.21 Mbit/s (0.4% utilization)

95th percentile per-packet one-way delay: 11.531 ms

Loss rate: 0.00%

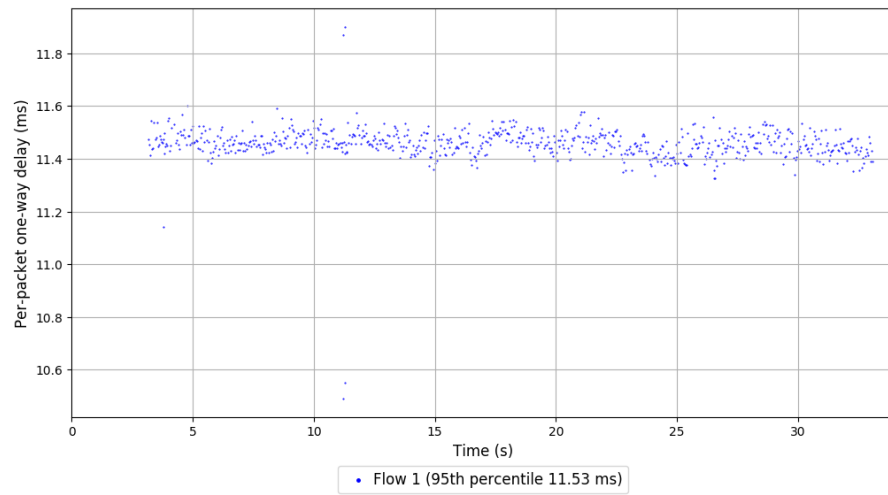
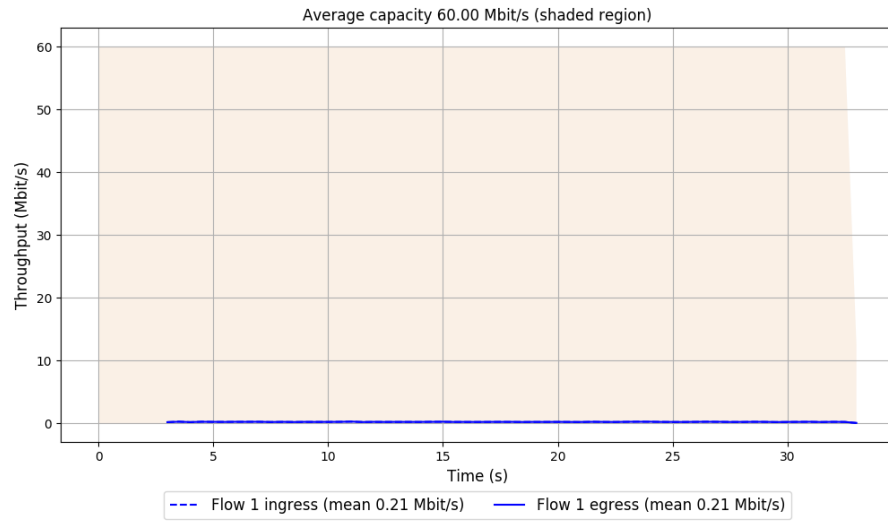
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 11.531 ms

Loss rate: 0.00%

Run 7: Report of SCReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-27 10:15:32

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

Below is generated by plot.py at 2018-02-27 10:41:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.21 Mbit/s (0.4% utilization)

95th percentile per-packet one-way delay: 11.513 ms

Loss rate: 0.00%

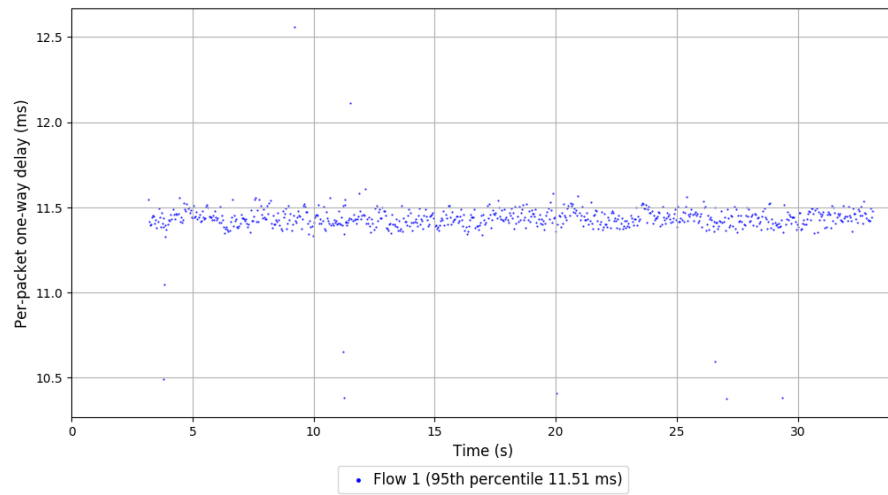
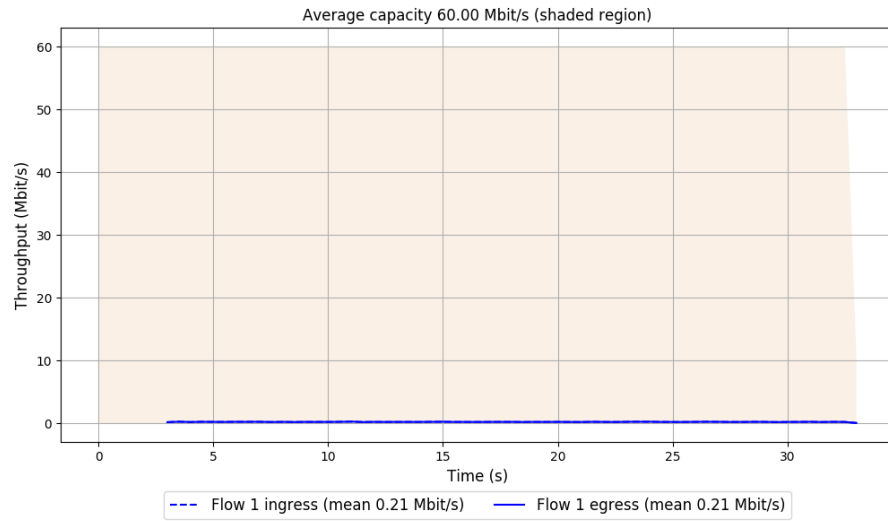
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 11.513 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-27 10:25:56

End at: 2018-02-27 10:26:26

Below is generated by plot.py at 2018-02-27 10:41:20

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.21 Mbit/s (0.4% utilization)

95th percentile per-packet one-way delay: 11.535 ms

Loss rate: 0.00%

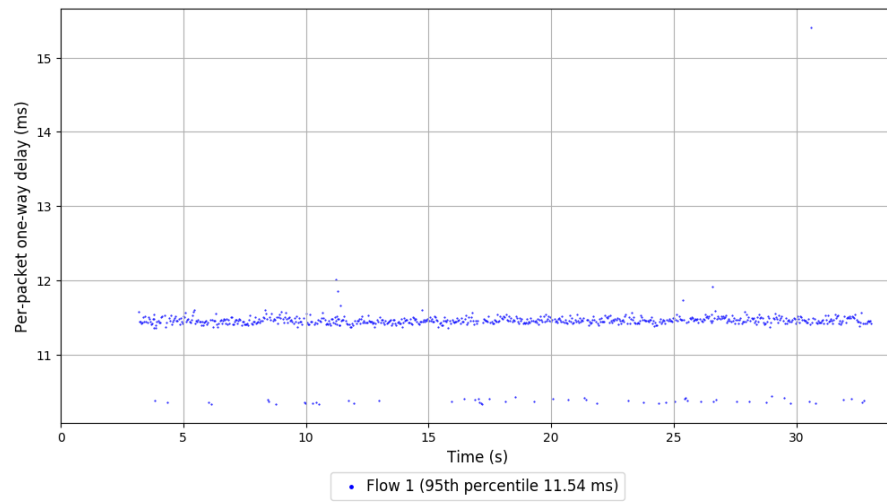
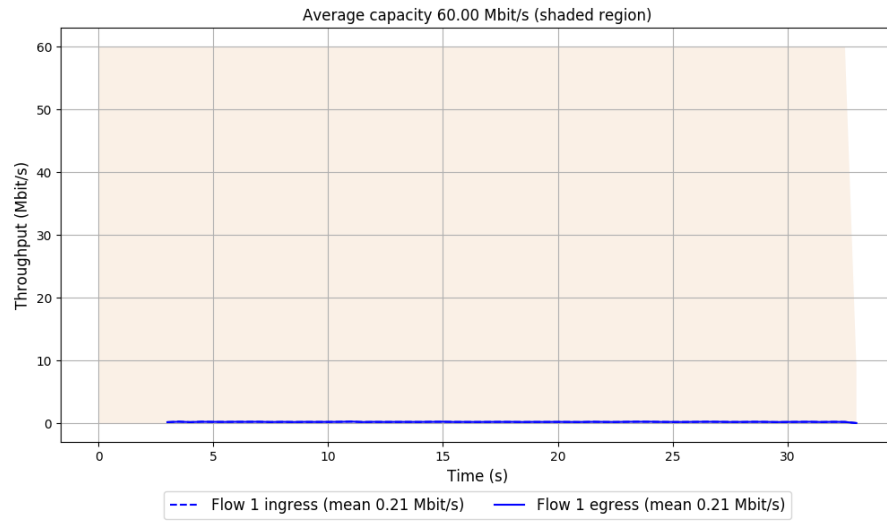
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 11.535 ms

Loss rate: 0.00%

Run 9: Report of SCReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-27 10:36:19

End at: 2018-02-27 10:36:49

Below is generated by plot.py at 2018-02-27 10:41:20

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.21 Mbit/s (0.4% utilization)

95th percentile per-packet one-way delay: 11.521 ms

Loss rate: 0.13%

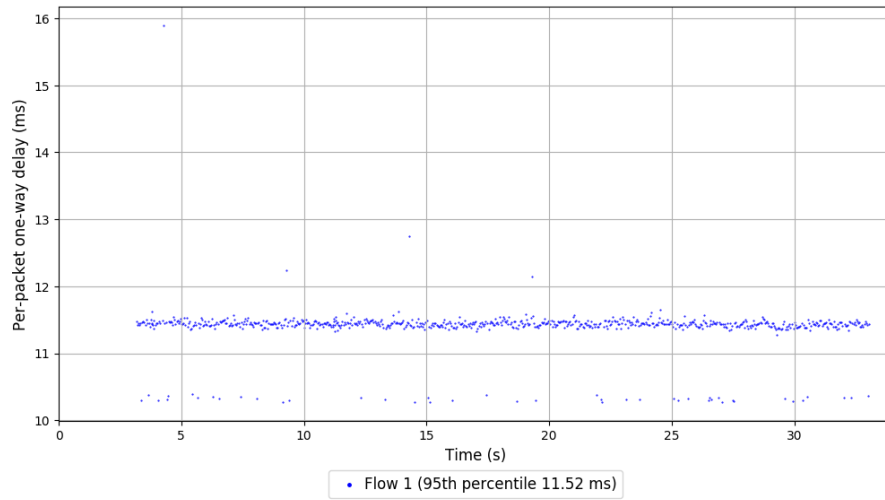
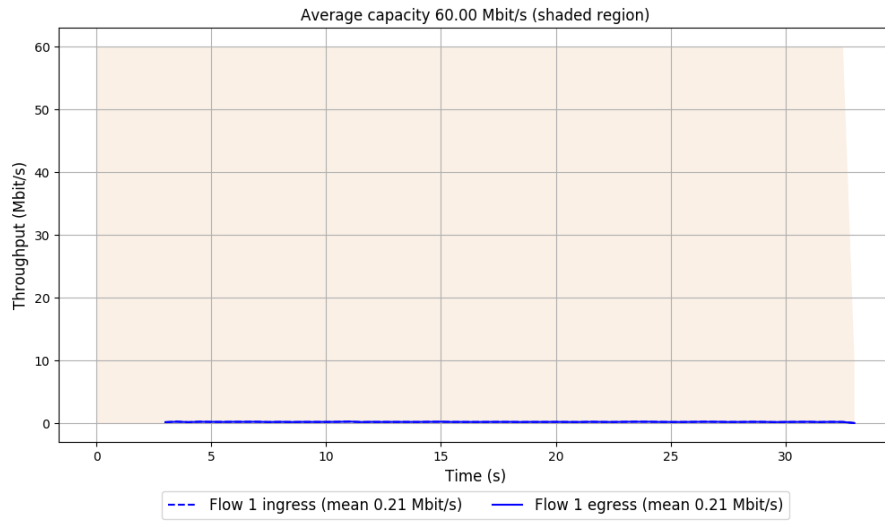
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 11.521 ms

Loss rate: 0.13%

Run 10: Report of SCReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-02-27 09:03:46

End at: 2018-02-27 09:04:16

Below is generated by plot.py at 2018-02-27 10:41:21

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.63 Mbit/s (1.1% utilization)

95th percentile per-packet one-way delay: 11.680 ms

Loss rate: 38.59%

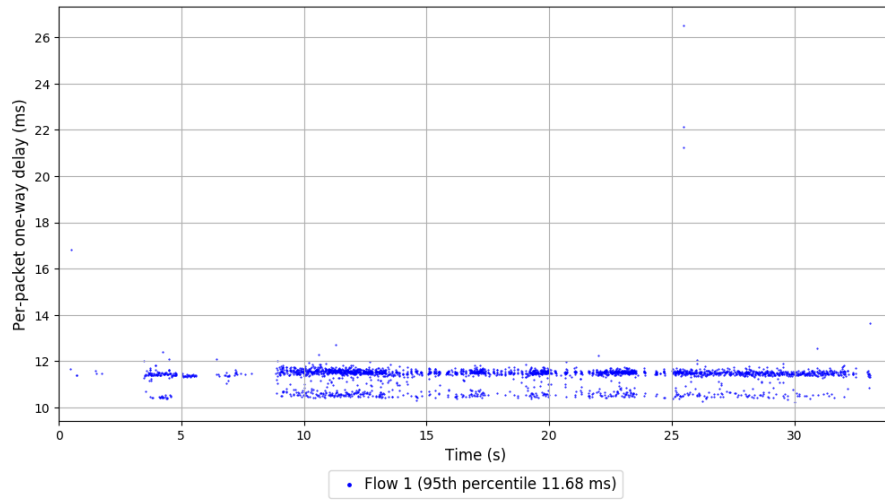
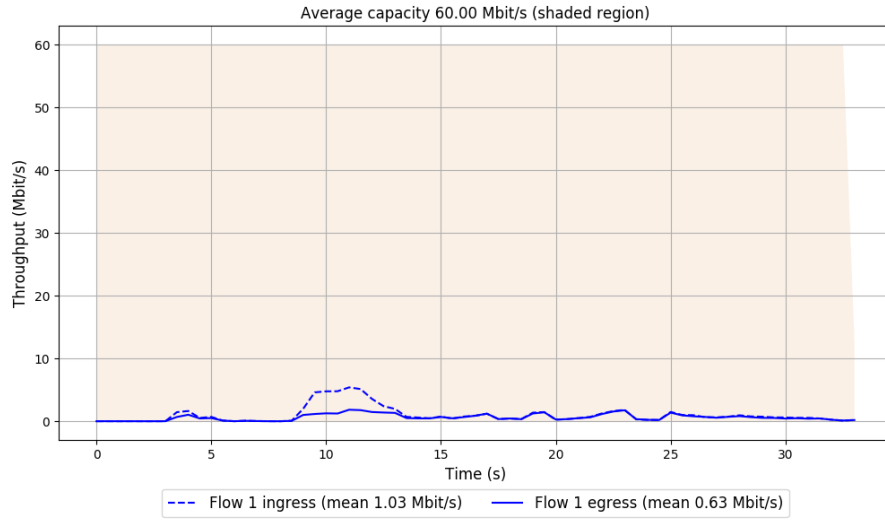
-- Flow 1:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 11.680 ms

Loss rate: 38.59%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-27 09:14:09

End at: 2018-02-27 09:14:39

Below is generated by plot.py at 2018-02-27 10:41:23

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.64 Mbit/s (1.1% utilization)

95th percentile per-packet one-way delay: 11.681 ms

Loss rate: 38.25%

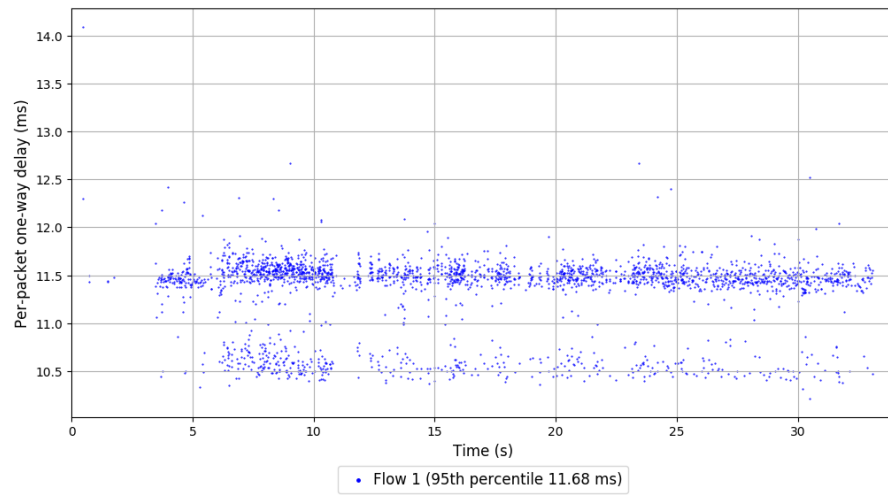
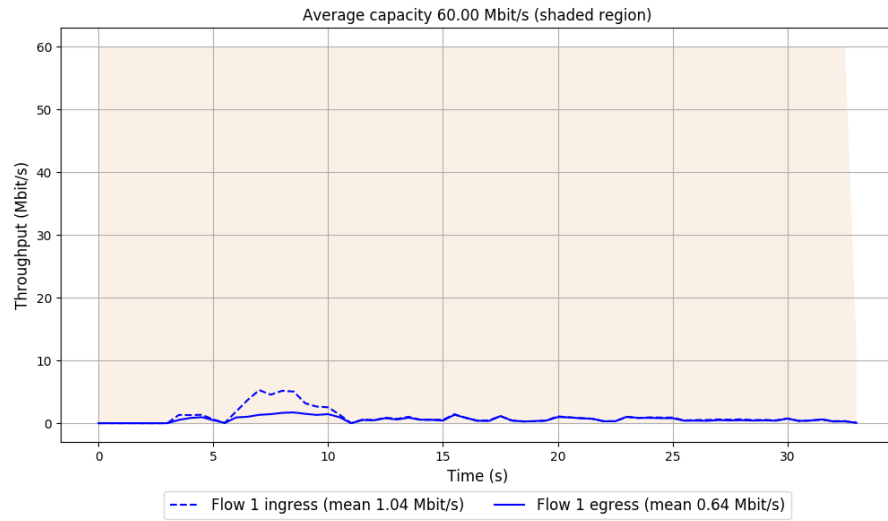
-- Flow 1:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 11.681 ms

Loss rate: 38.25%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-27 09:24:34

End at: 2018-02-27 09:25:04

Below is generated by plot.py at 2018-02-27 10:41:24

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.68 Mbit/s (1.1% utilization)

95th percentile per-packet one-way delay: 11.678 ms

Loss rate: 42.84%

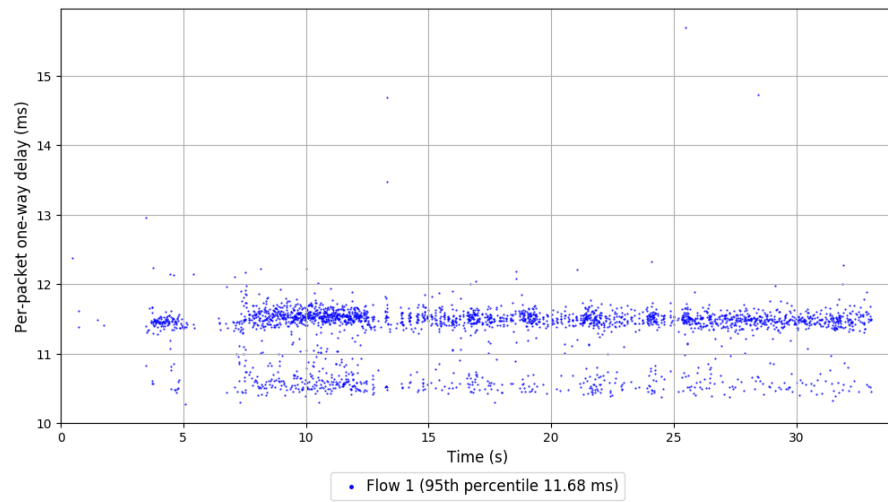
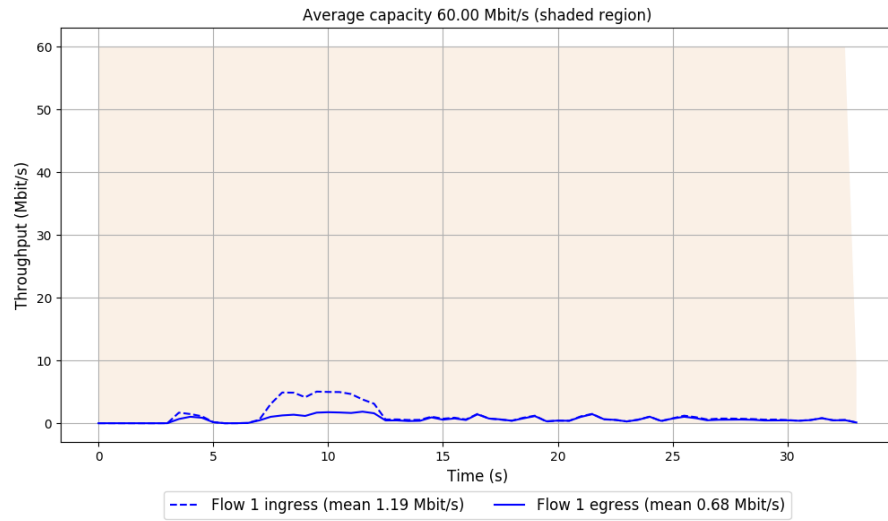
-- Flow 1:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 11.678 ms

Loss rate: 42.84%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-27 09:34:58

End at: 2018-02-27 09:35:28

Below is generated by plot.py at 2018-02-27 10:41:27

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.64 Mbit/s (1.1% utilization)

95th percentile per-packet one-way delay: 11.724 ms

Loss rate: 34.00%

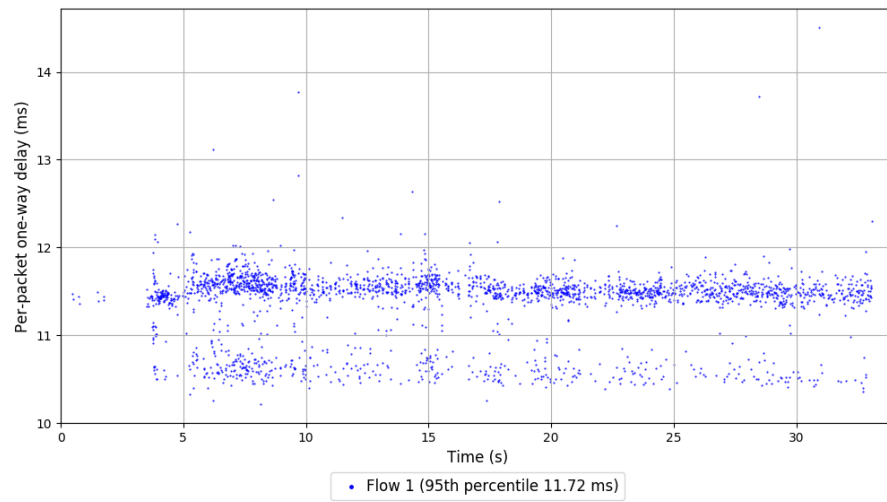
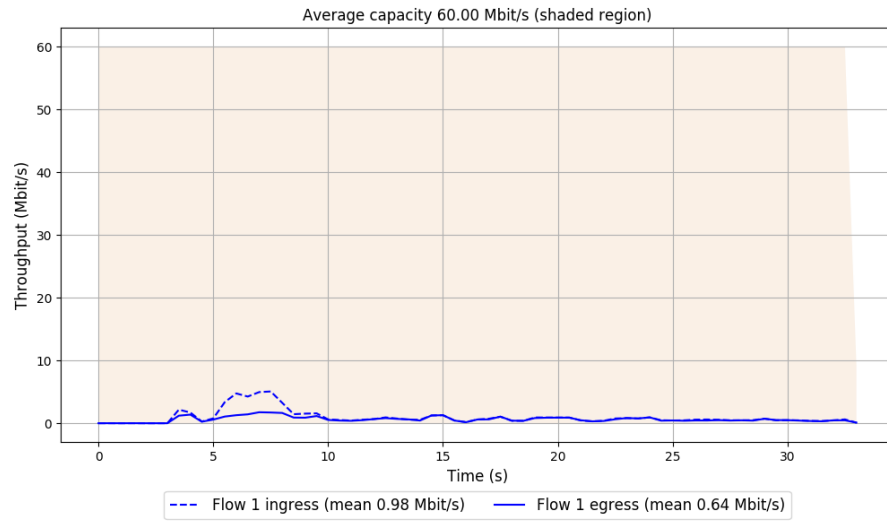
-- Flow 1:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 11.724 ms

Loss rate: 34.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-27 09:45:24

End at: 2018-02-27 09:45:54

Below is generated by plot.py at 2018-02-27 10:41:36

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.64 Mbit/s (1.1% utilization)

95th percentile per-packet one-way delay: 12.035 ms

Loss rate: 32.99%

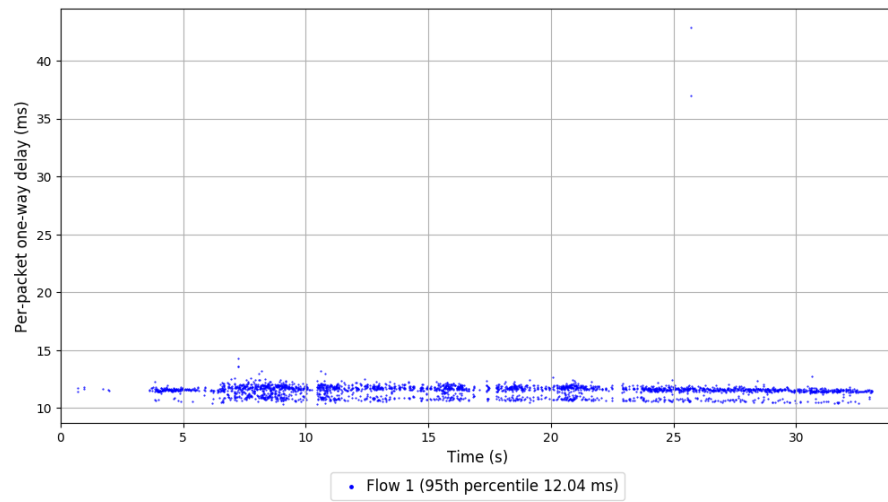
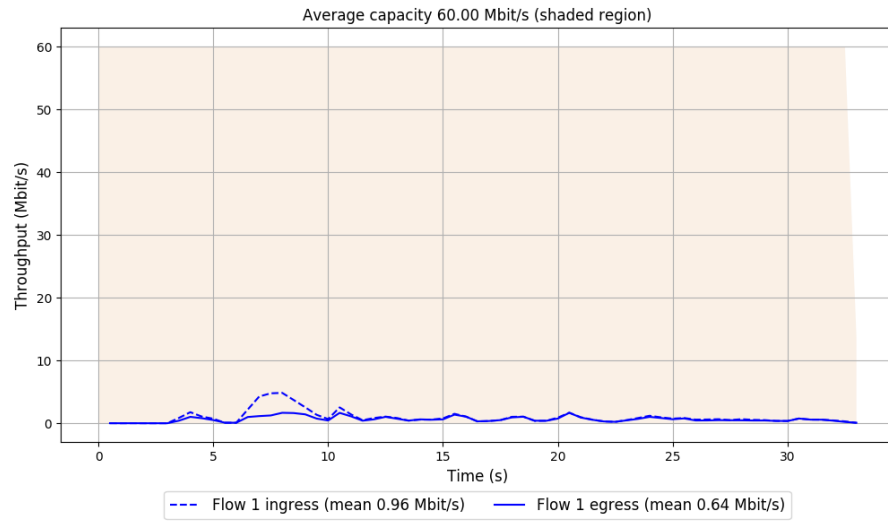
-- Flow 1:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 12.035 ms

Loss rate: 32.99%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-27 09:55:49

End at: 2018-02-27 09:56:19

Below is generated by plot.py at 2018-02-27 10:41:38

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.62 Mbit/s (1.0% utilization)

95th percentile per-packet one-way delay: 11.676 ms

Loss rate: 36.95%

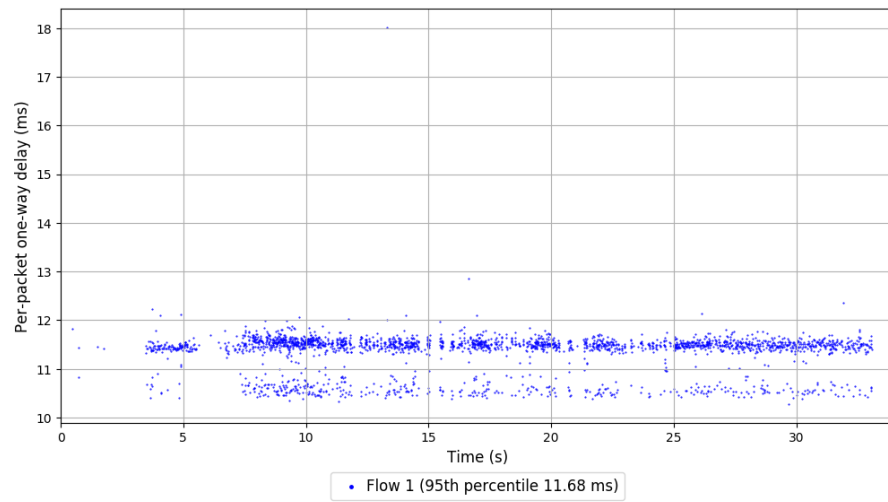
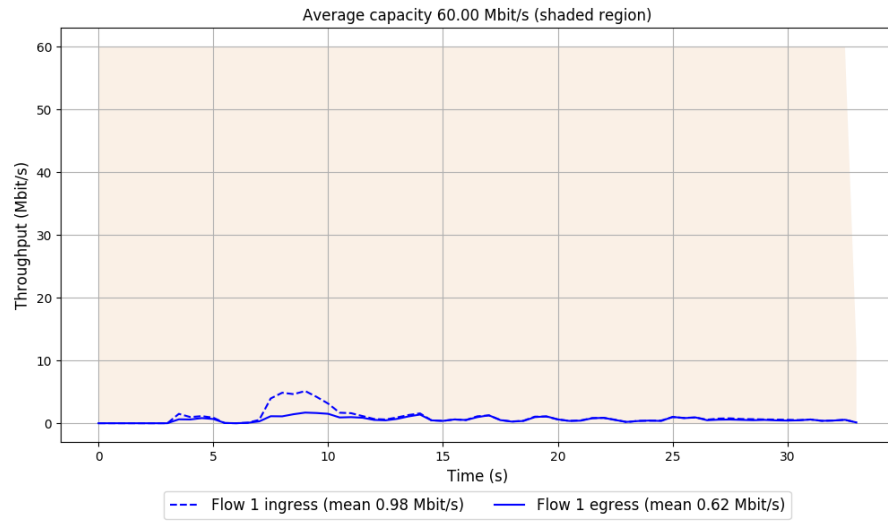
-- Flow 1:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 11.676 ms

Loss rate: 36.95%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-27 10:06:13

End at: 2018-02-27 10:06:43

Below is generated by plot.py at 2018-02-27 10:41:39

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.69 Mbit/s (1.2% utilization)

95th percentile per-packet one-way delay: 11.675 ms

Loss rate: 31.80%

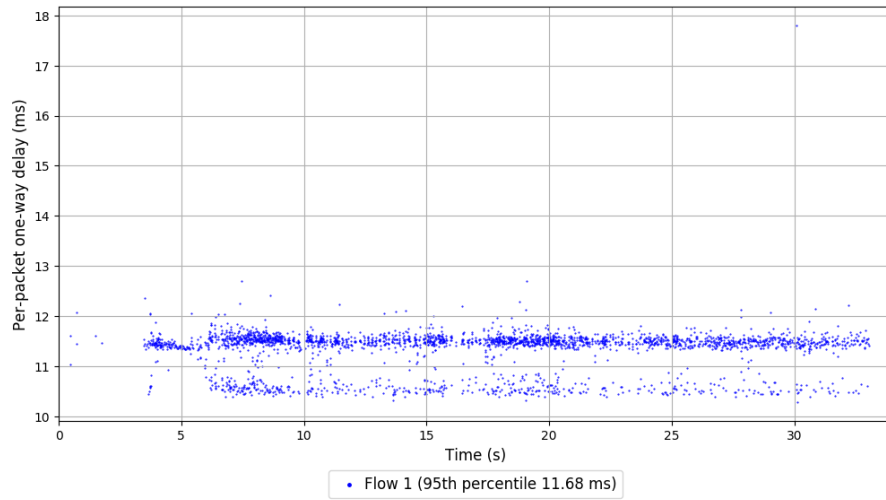
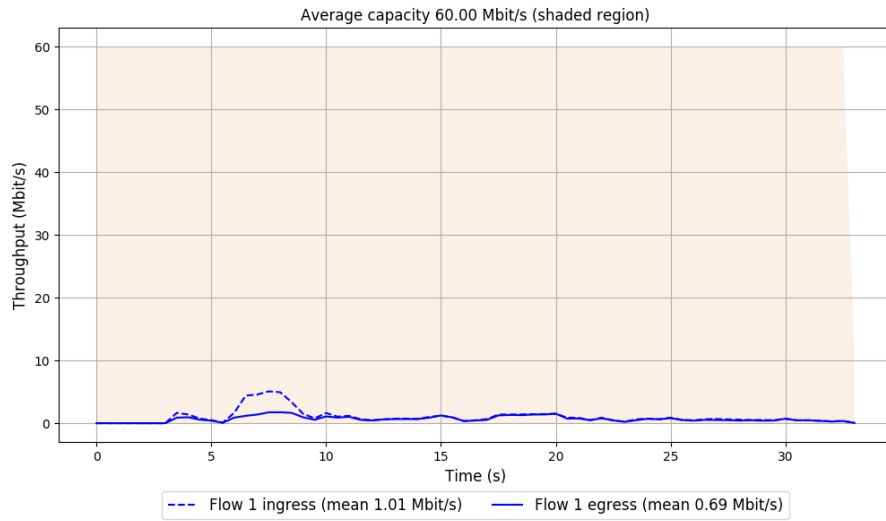
-- Flow 1:

Average throughput: 0.69 Mbit/s

95th percentile per-packet one-way delay: 11.675 ms

Loss rate: 31.80%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-27 10:16:40

End at: 2018-02-27 10:17:10

Below is generated by plot.py at 2018-02-27 10:41:40

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.62 Mbit/s (1.0% utilization)

95th percentile per-packet one-way delay: 11.666 ms

Loss rate: 32.27%

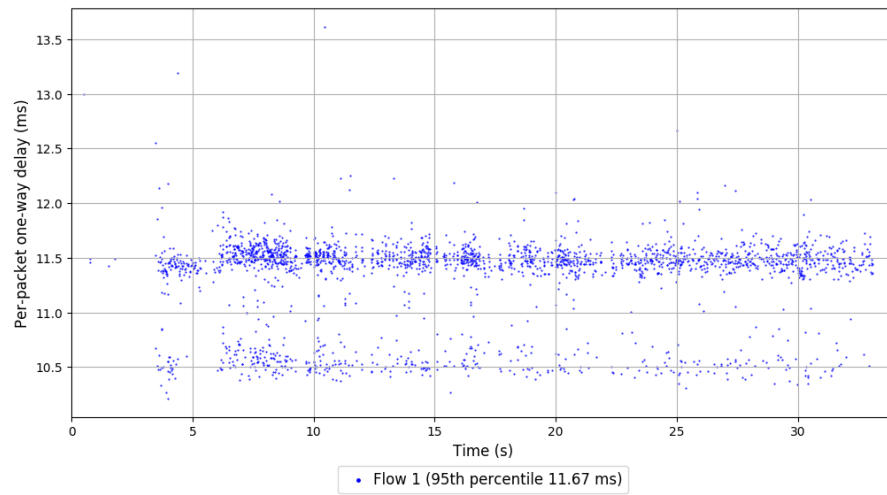
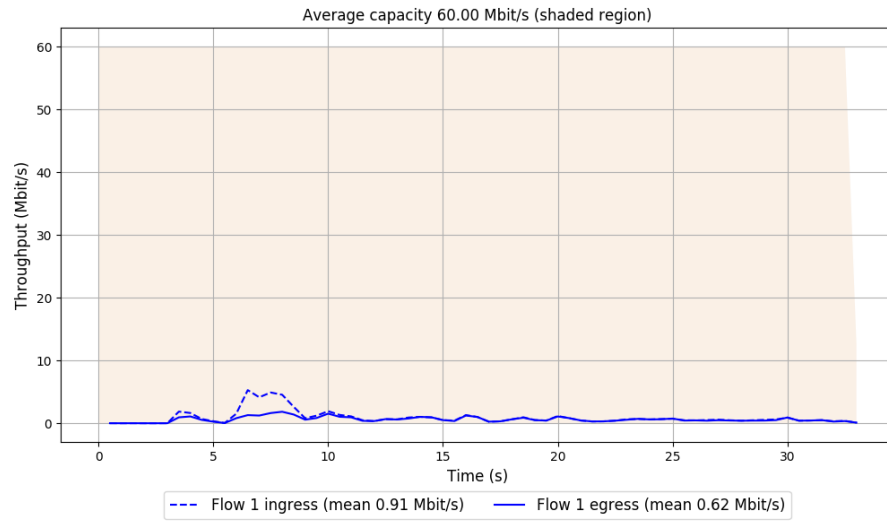
-- Flow 1:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 11.666 ms

Loss rate: 32.27%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-27 10:27:05

End at: 2018-02-27 10:27:35

Below is generated by plot.py at 2018-02-27 10:41:42

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.66 Mbit/s (1.1% utilization)

95th percentile per-packet one-way delay: 11.670 ms

Loss rate: 44.03%

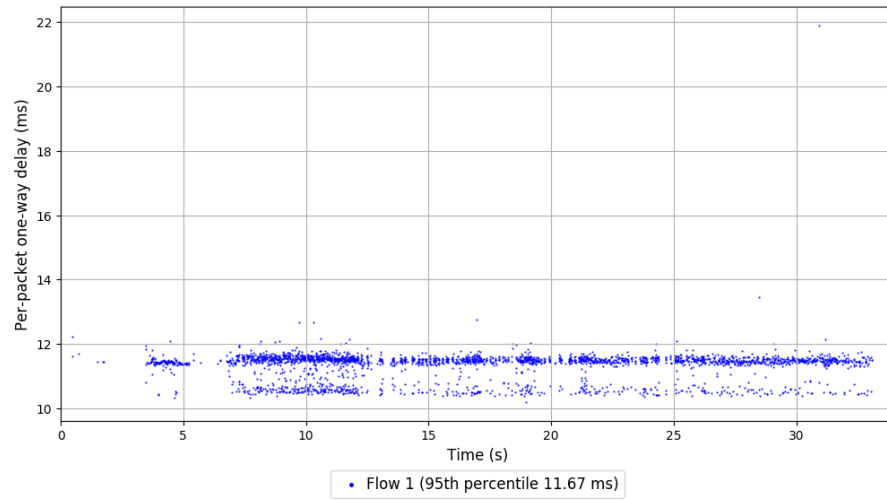
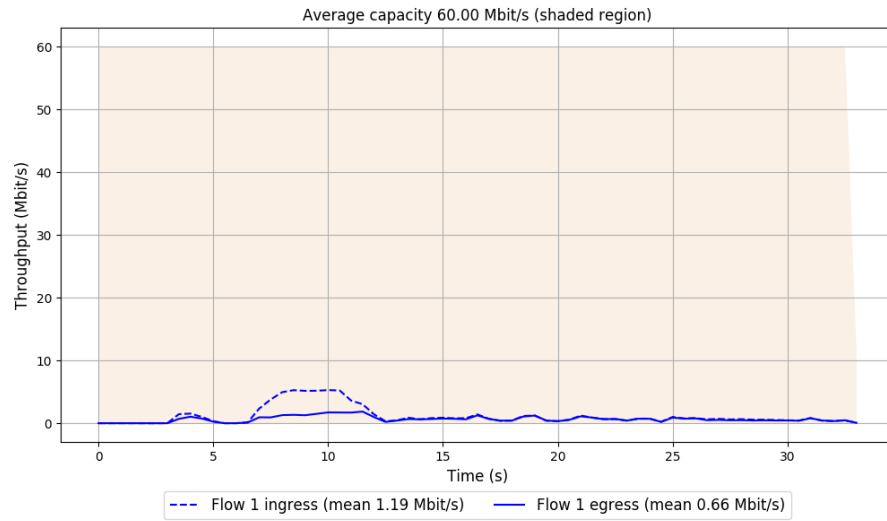
-- Flow 1:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 11.670 ms

Loss rate: 44.03%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-27 10:37:27

End at: 2018-02-27 10:37:57

Below is generated by plot.py at 2018-02-27 10:41:44

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.64 Mbit/s (1.1% utilization)

95th percentile per-packet one-way delay: 11.672 ms

Loss rate: 34.95%

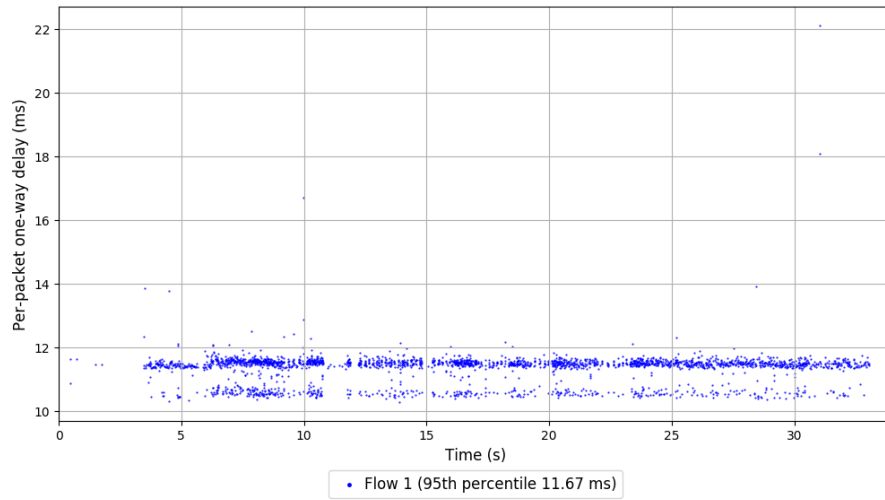
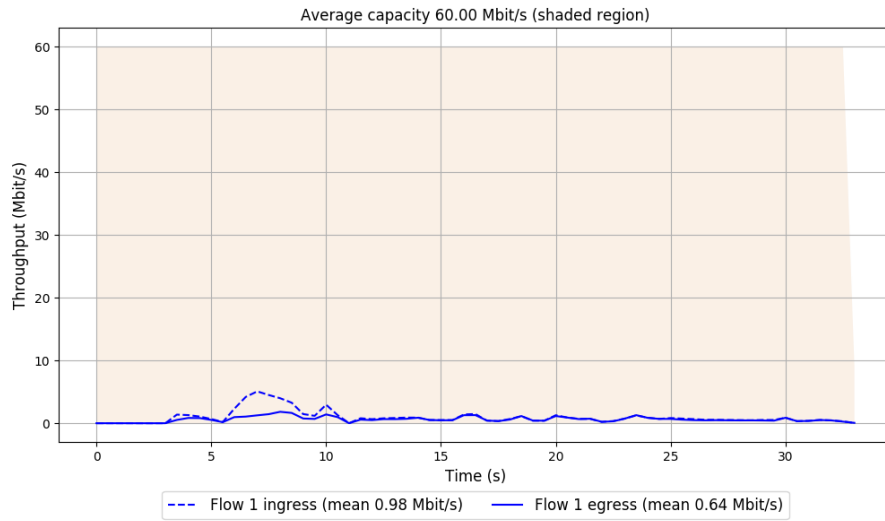
-- Flow 1:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 11.672 ms

Loss rate: 34.95%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-27 08:55:40

End at: 2018-02-27 08:56:10

Below is generated by plot.py at 2018-02-27 10:41:44

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.54 Mbit/s (0.9% utilization)

95th percentile per-packet one-way delay: 11.496 ms

Loss rate: 2.95%

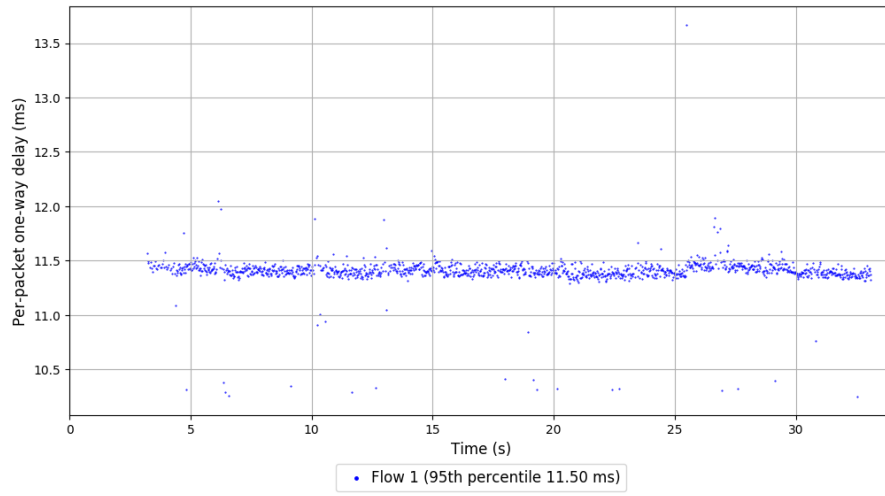
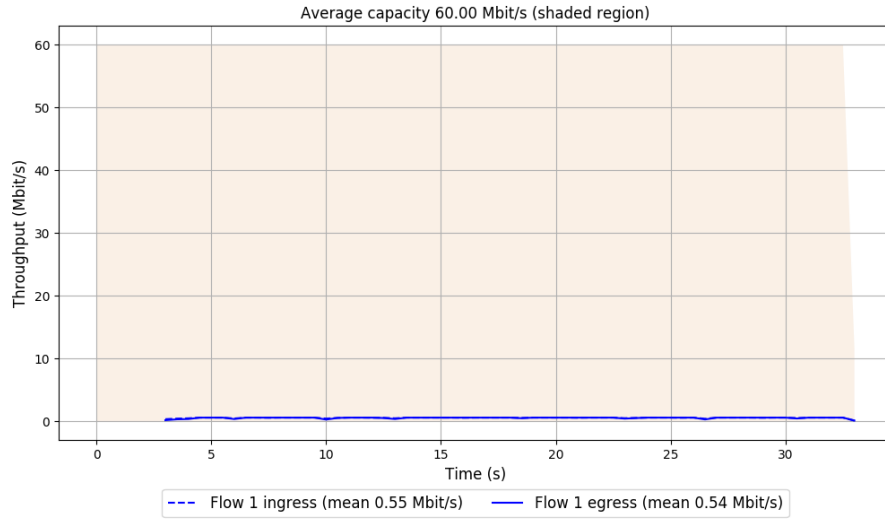
-- Flow 1:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 11.496 ms

Loss rate: 2.95%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-27 09:06:04

End at: 2018-02-27 09:06:34

Below is generated by plot.py at 2018-02-27 10:41:46

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.41 Mbit/s (0.7% utilization)

95th percentile per-packet one-way delay: 11.480 ms

Loss rate: 16.66%

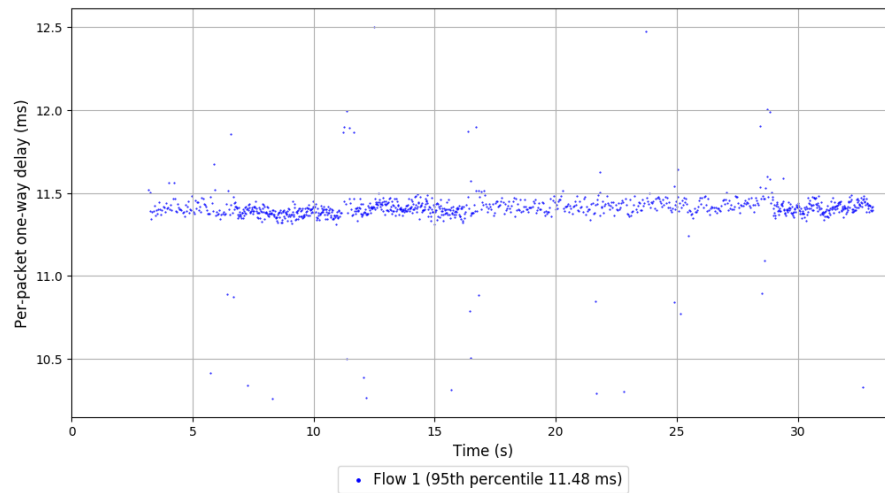
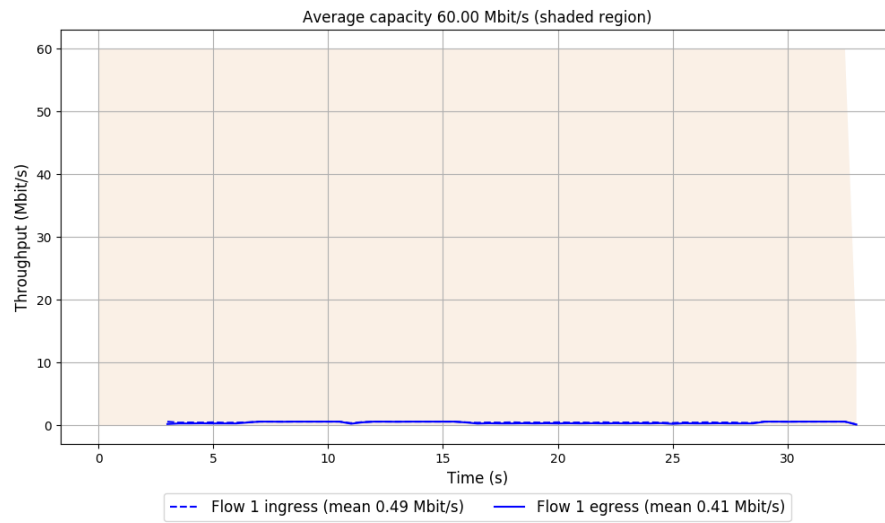
-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 11.480 ms

Loss rate: 16.66%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-27 09:16:27

End at: 2018-02-27 09:16:57

Below is generated by plot.py at 2018-02-27 10:41:56

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.46 Mbit/s (0.8% utilization)

95th percentile per-packet one-way delay: 11.468 ms

Loss rate: 11.82%

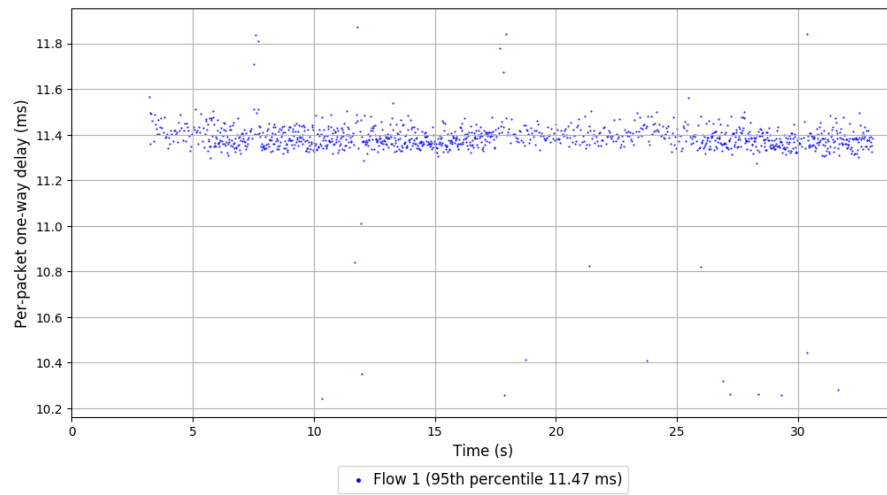
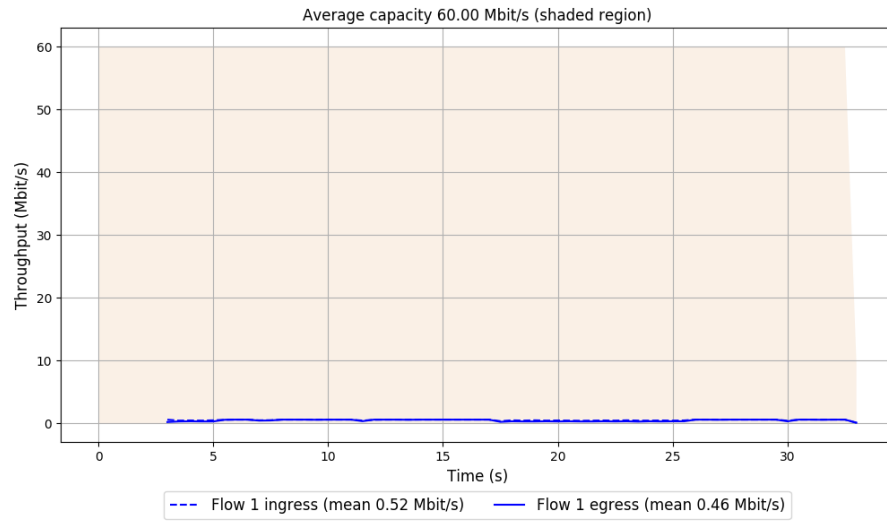
-- Flow 1:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 11.468 ms

Loss rate: 11.82%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-27 09:26:52

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

Below is generated by plot.py at 2018-02-27 10:41:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.45 Mbit/s (0.7% utilization)

95th percentile per-packet one-way delay: 11.480 ms

Loss rate: 12.86%

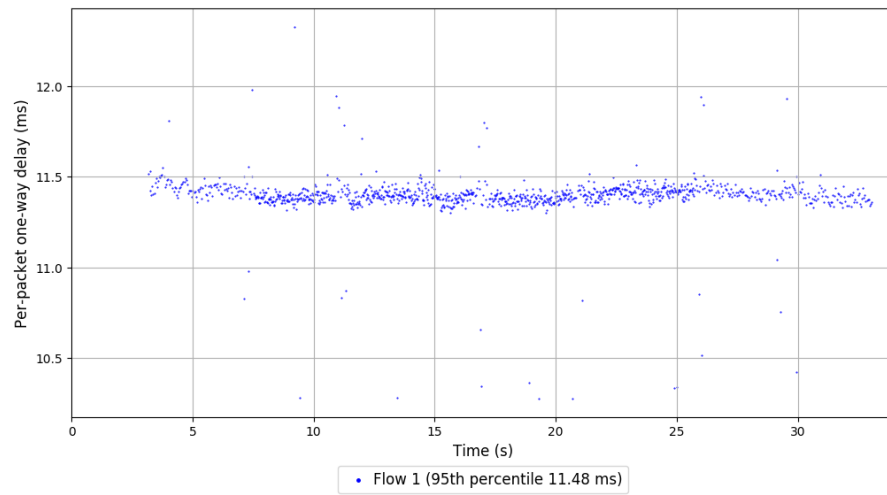
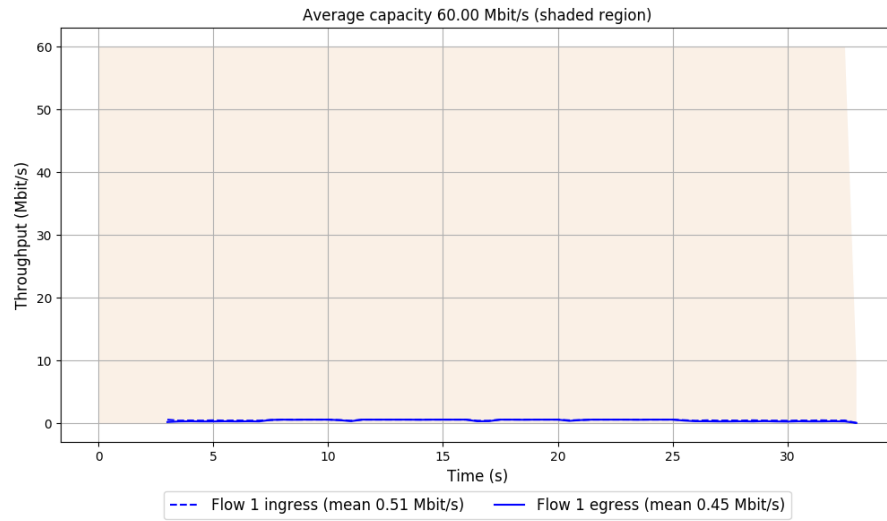
-- Flow 1:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 11.480 ms

Loss rate: 12.86%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-27 09:37:16

End at: 2018-02-27 09:37:46

Below is generated by plot.py at 2018-02-27 10:41:59

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.50 Mbit/s (0.8% utilization)

95th percentile per-packet one-way delay: 11.464 ms

Loss rate: 6.51%

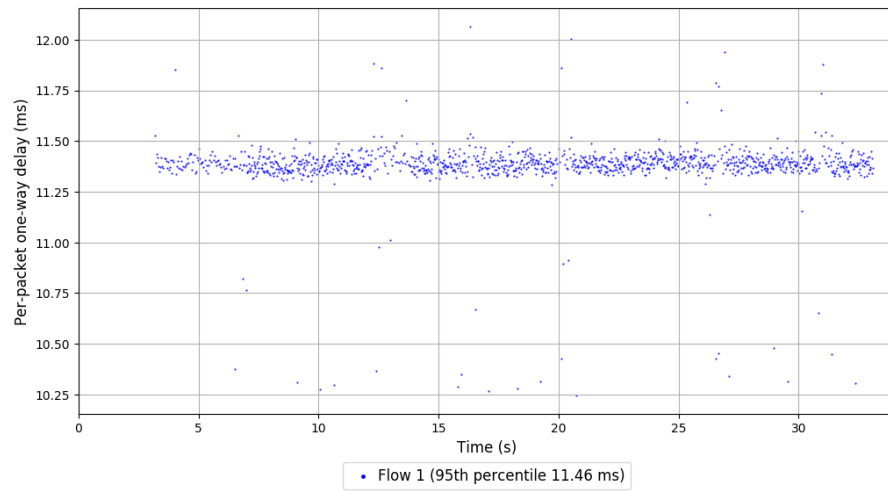
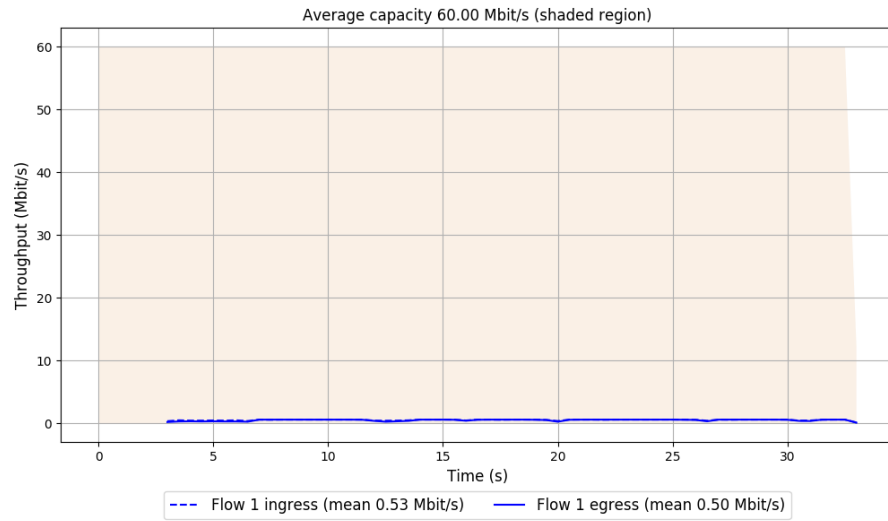
-- Flow 1:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 11.464 ms

Loss rate: 6.51%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-27 09:47:42

End at: 2018-02-27 09:48:12

Below is generated by plot.py at 2018-02-27 10:42:00

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.46 Mbit/s (0.8% utilization)

95th percentile per-packet one-way delay: 11.470 ms

Loss rate: 10.95%

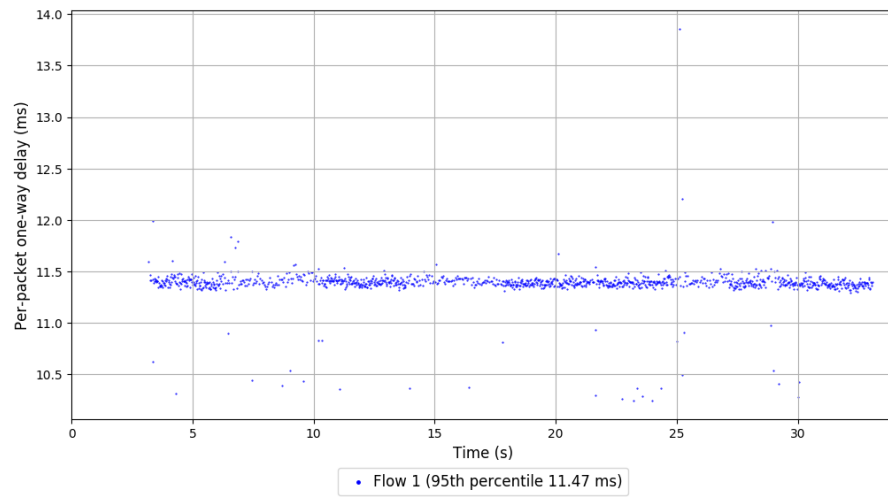
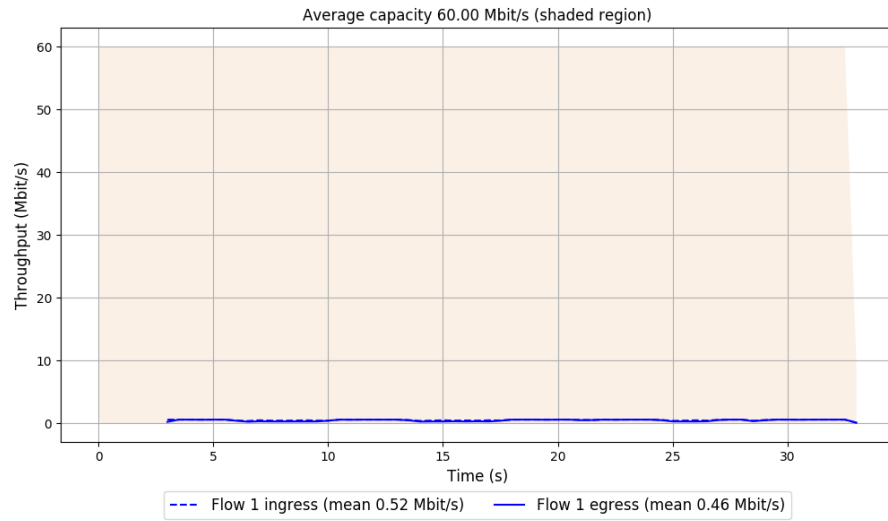
-- Flow 1:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 11.470 ms

Loss rate: 10.95%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-27 09:58:07

End at: 2018-02-27 09:58:37

Below is generated by plot.py at 2018-02-27 10:42:01

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.47 Mbit/s (0.8% utilization)

95th percentile per-packet one-way delay: 11.457 ms

Loss rate: 10.35%

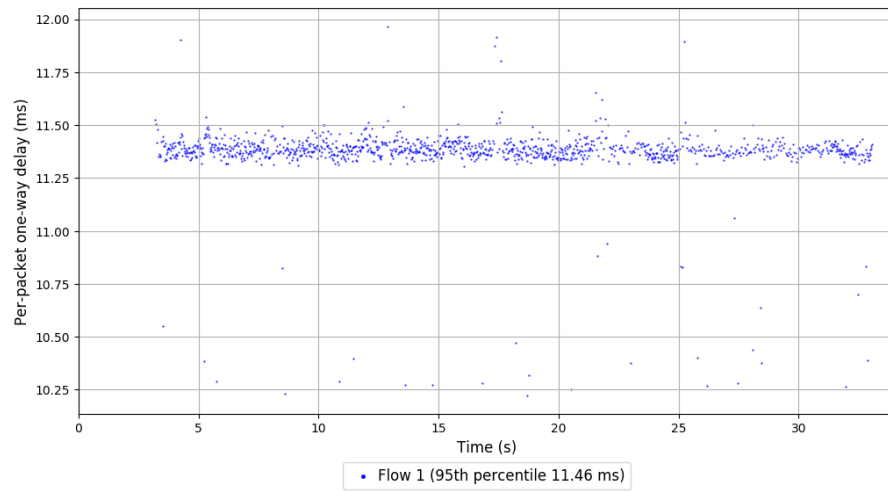
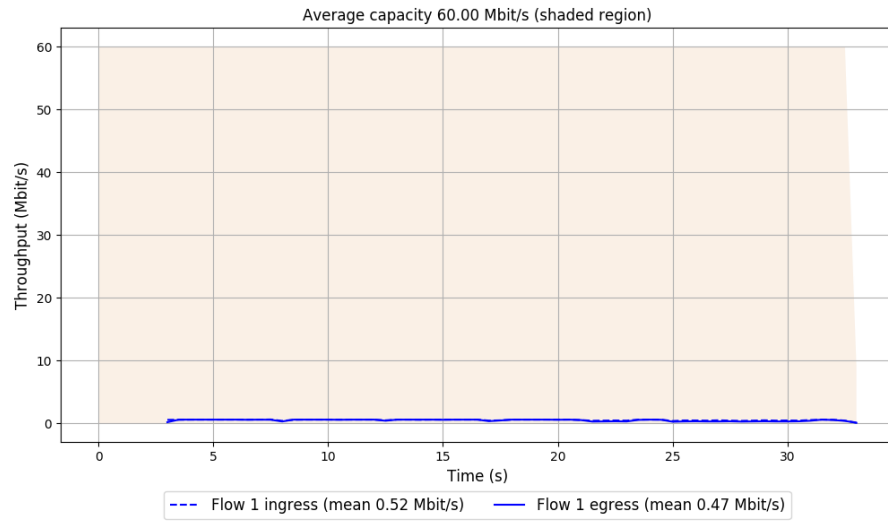
-- Flow 1:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 11.457 ms

Loss rate: 10.35%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-27 10:08:31

End at: 2018-02-27 10:09:01

Below is generated by plot.py at 2018-02-27 10:42:03

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.49 Mbit/s (0.8% utilization)

95th percentile per-packet one-way delay: 11.470 ms

Loss rate: 7.24%

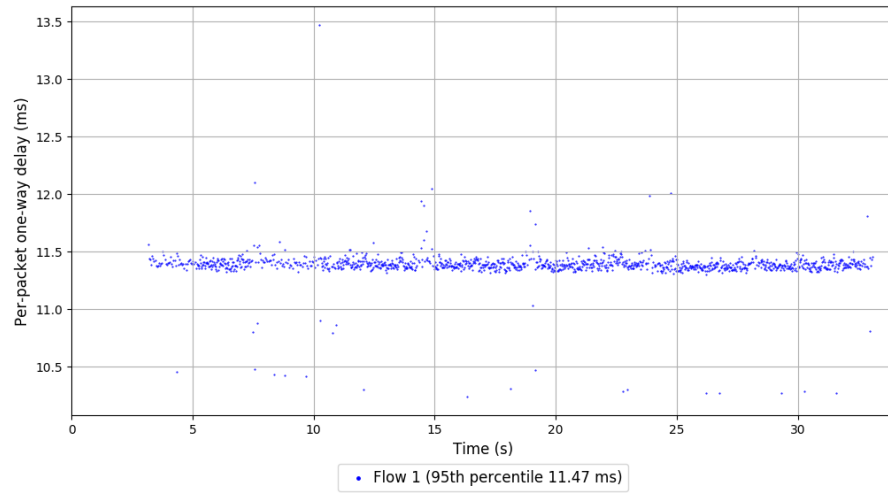
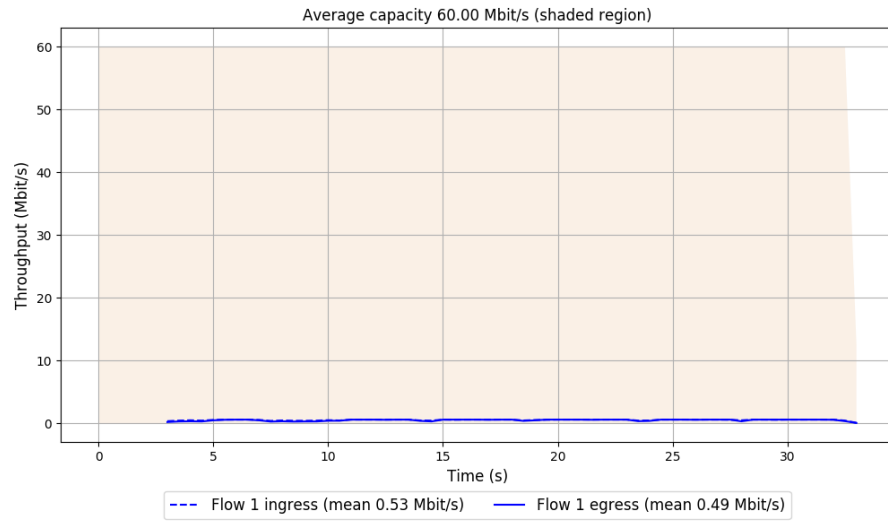
-- Flow 1:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 11.470 ms

Loss rate: 7.24%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-27 10:18:58

End at: 2018-02-27 10:19:28

Below is generated by plot.py at 2018-02-27 10:42:04

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.50 Mbit/s (0.8% utilization)

95th percentile per-packet one-way delay: 11.449 ms

Loss rate: 6.79%

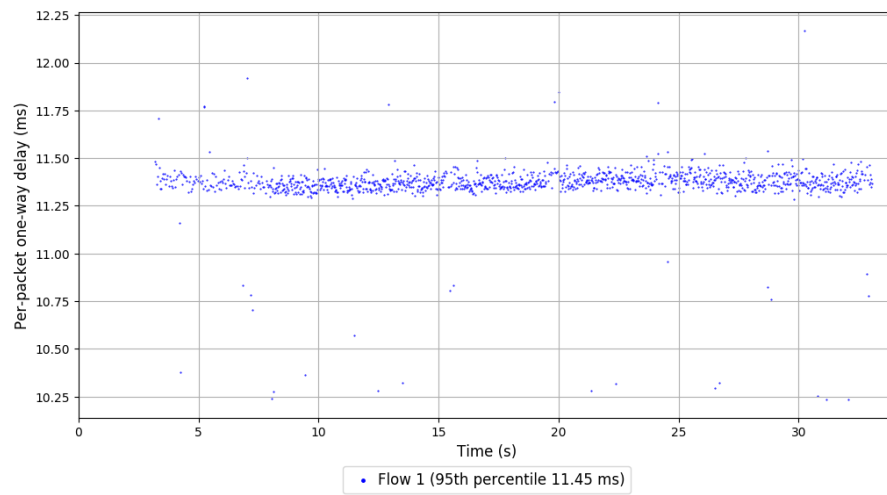
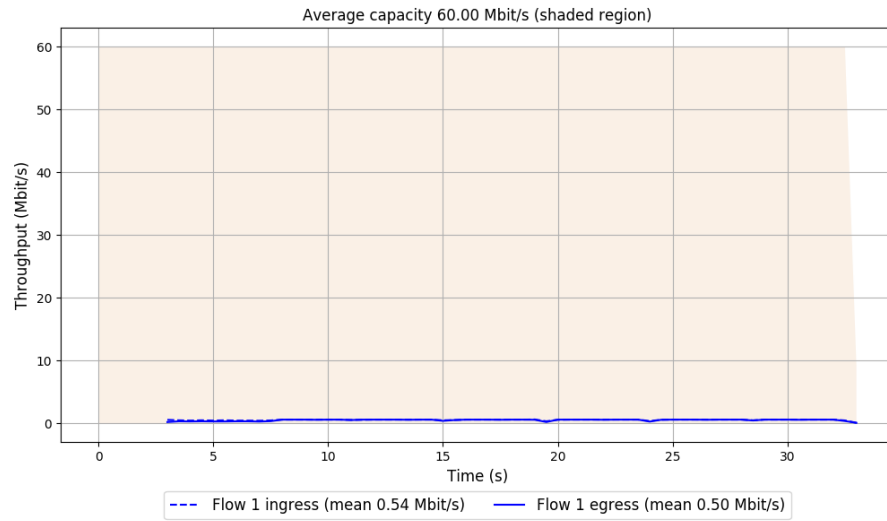
-- Flow 1:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 11.449 ms

Loss rate: 6.79%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-27 10:29:23

End at: 2018-02-27 10:29:53

Below is generated by plot.py at 2018-02-27 10:42:06

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.51 Mbit/s (0.8% utilization)

95th percentile per-packet one-way delay: 11.422 ms

Loss rate: 6.27%

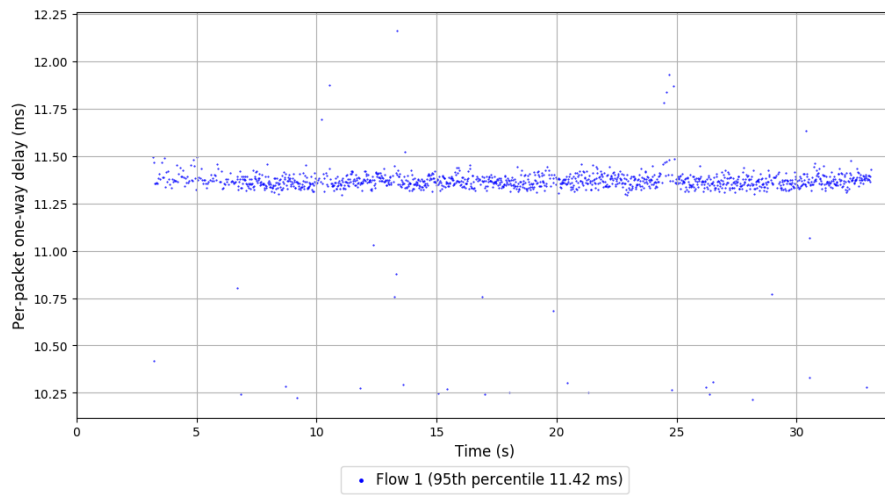
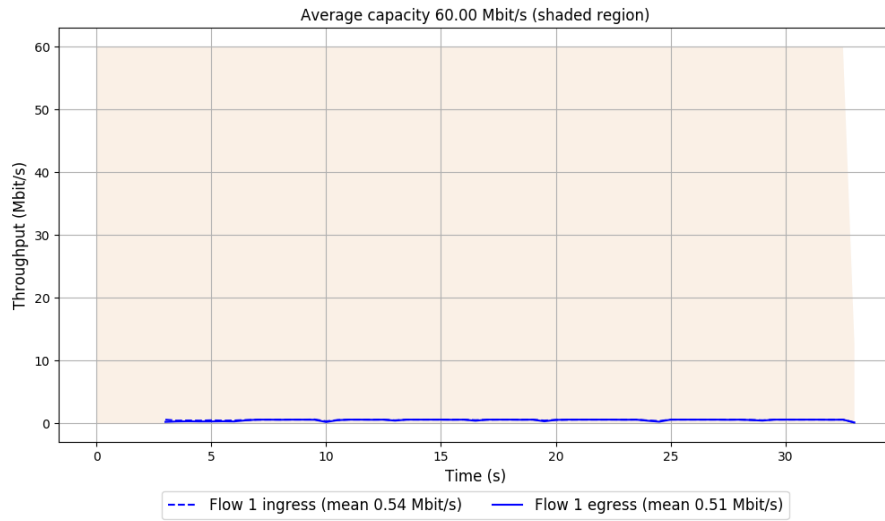
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 11.422 ms

Loss rate: 6.27%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-02-27 08:58:32

End at: 2018-02-27 08:59:02

Below is generated by plot.py at 2018-02-27 10:42:15

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.01 Mbit/s (0.0% utilization)

95th percentile per-packet one-way delay: 11.633 ms

Loss rate: 53.69%

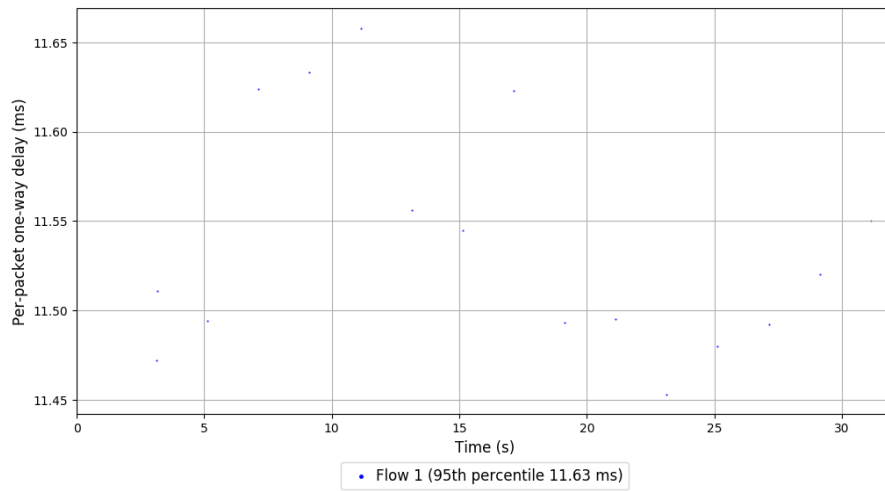
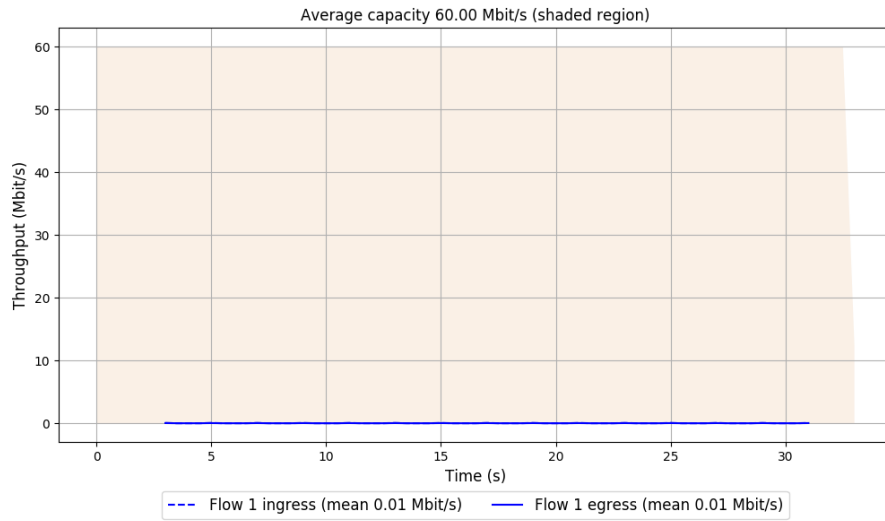
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 11.633 ms

Loss rate: 53.69%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-02-27 09:08:56

End at: 2018-02-27 09:09:26

Below is generated by plot.py at 2018-02-27 10:42:16

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.01 Mbit/s (0.0% utilization)

95th percentile per-packet one-way delay: 11.570 ms

Loss rate: 53.69%

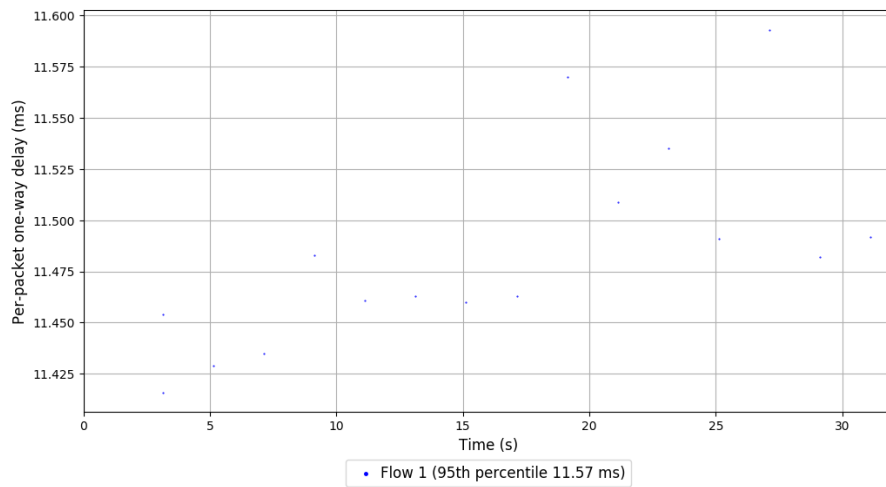
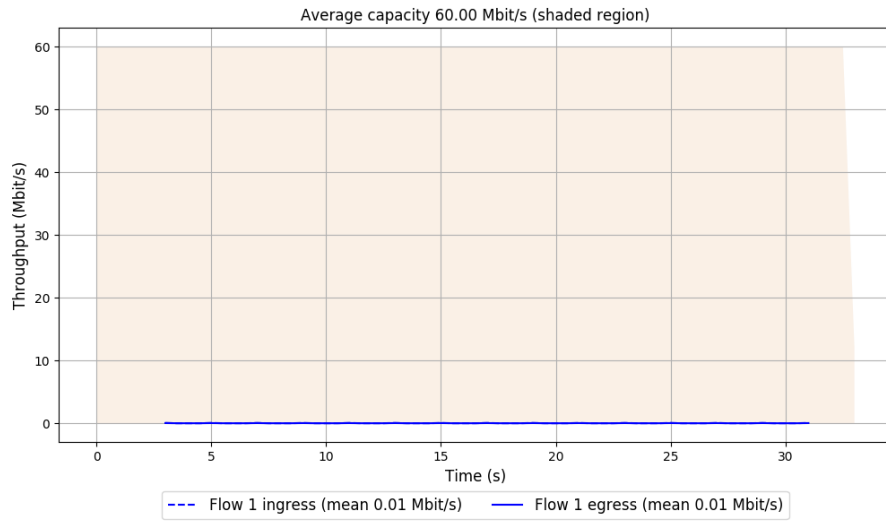
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 11.570 ms

Loss rate: 53.69%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-27 09:19:20

End at: 2018-02-27 09:19:50

Below is generated by plot.py at 2018-02-27 10:42:19

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.01 Mbit/s (0.0% utilization)

95th percentile per-packet one-way delay: 11.662 ms

Loss rate: 53.69%

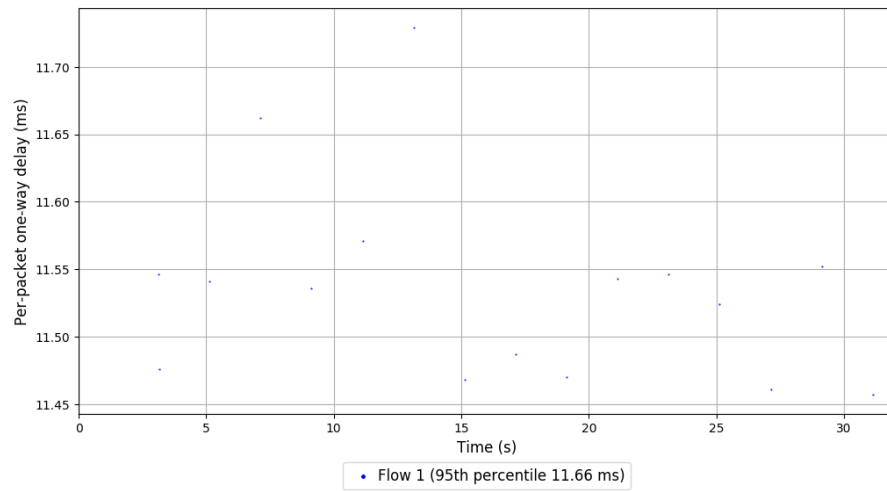
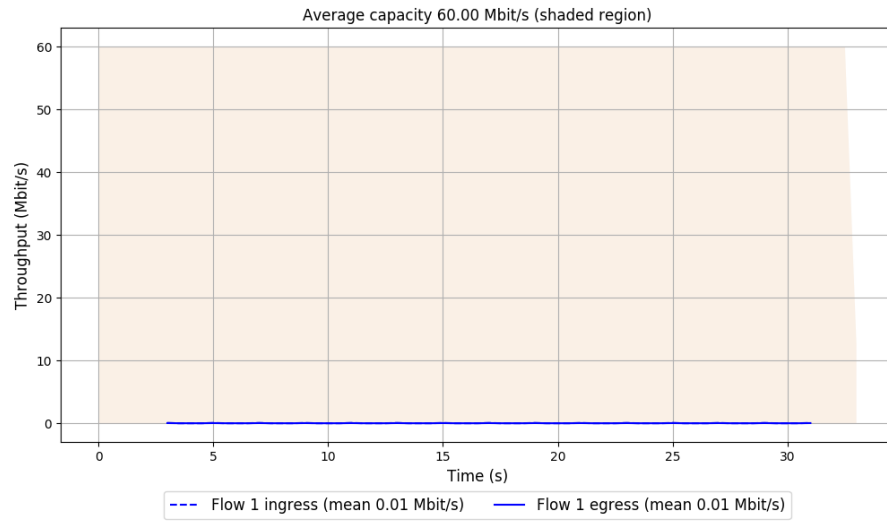
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 11.662 ms

Loss rate: 53.69%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-27 09:29:44

End at: 2018-02-27 09:30:14

Below is generated by plot.py at 2018-02-27 10:42:19

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.01 Mbit/s (0.0% utilization)

95th percentile per-packet one-way delay: 11.554 ms

Loss rate: 53.69%

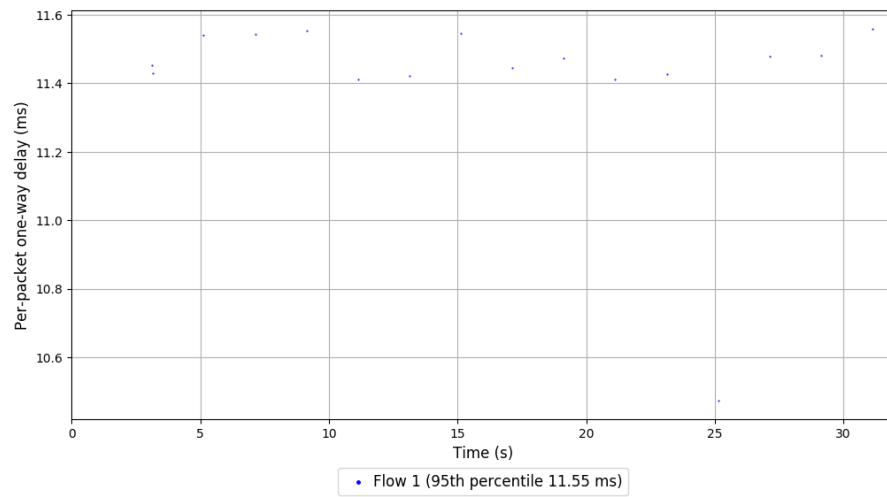
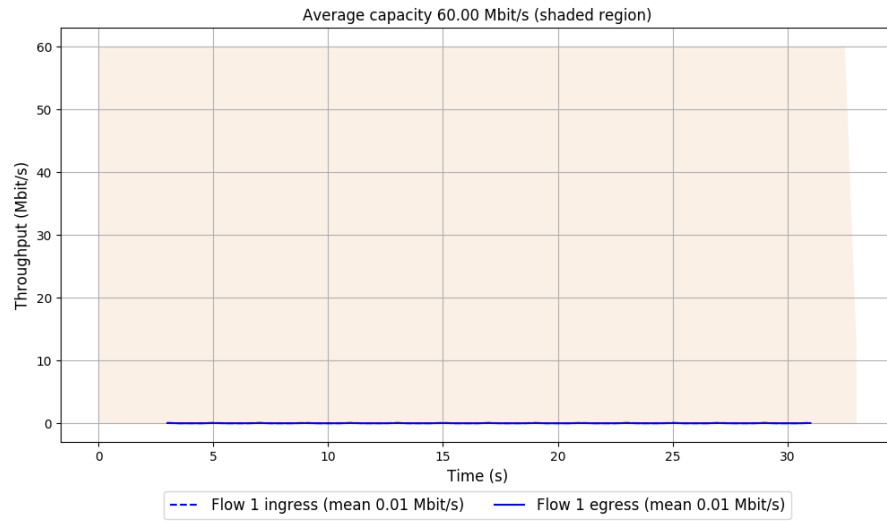
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 11.554 ms

Loss rate: 53.69%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-27 09:40:07

End at: 2018-02-27 09:40:38

Below is generated by plot.py at 2018-02-27 10:42:20

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.01 Mbit/s (0.0% utilization)

95th percentile per-packet one-way delay: 11.533 ms

Loss rate: 53.69%

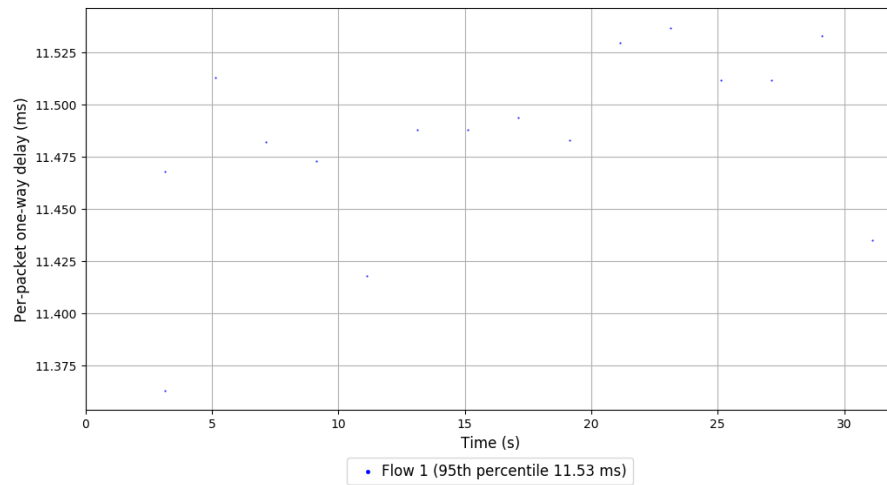
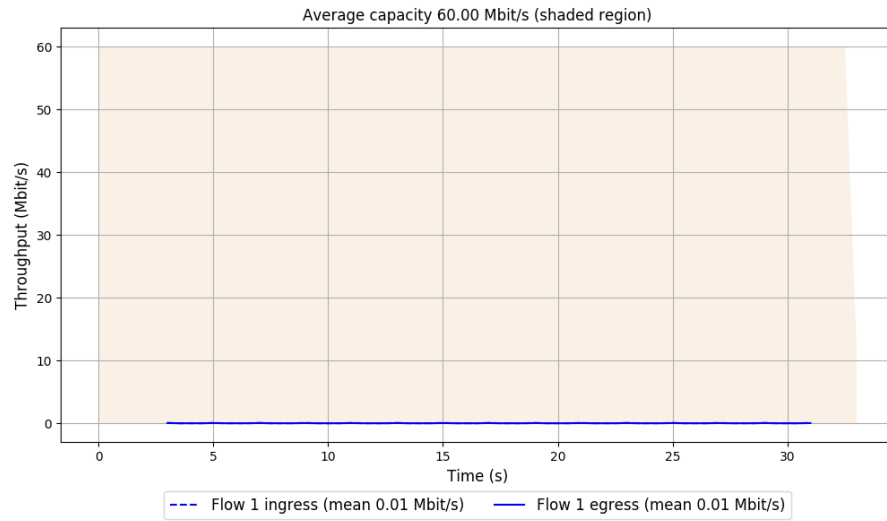
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 11.533 ms

Loss rate: 53.69%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-27 09:50:34

End at: 2018-02-27 09:51:04

Below is generated by plot.py at 2018-02-27 10:42:21

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.01 Mbit/s (0.0% utilization)

95th percentile per-packet one-way delay: 11.664 ms

Loss rate: 53.43%

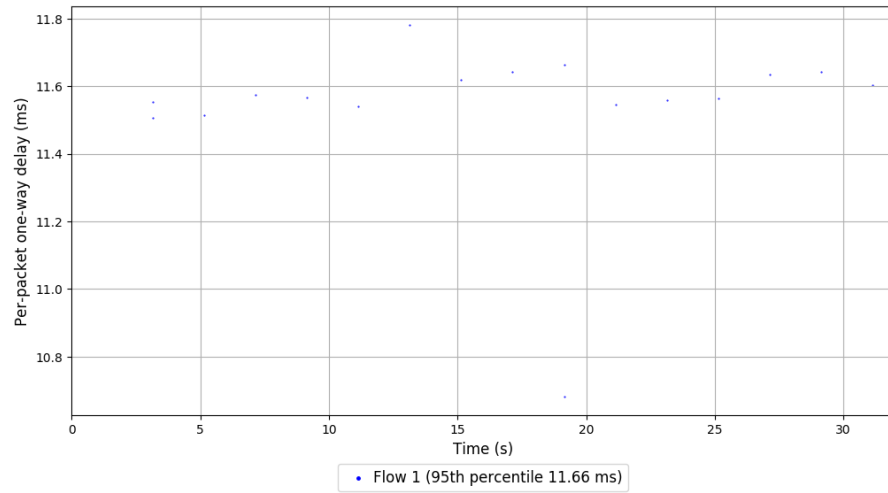
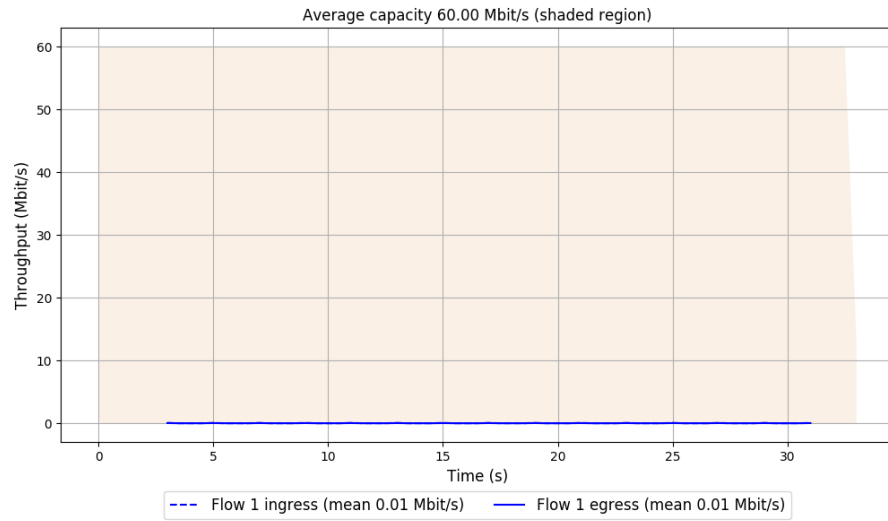
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 11.664 ms

Loss rate: 53.43%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-27 10:00:59

End at: 2018-02-27 10:01:29

Below is generated by plot.py at 2018-02-27 10:42:23

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.01 Mbit/s (0.0% utilization)

95th percentile per-packet one-way delay: 11.553 ms

Loss rate: 53.69%

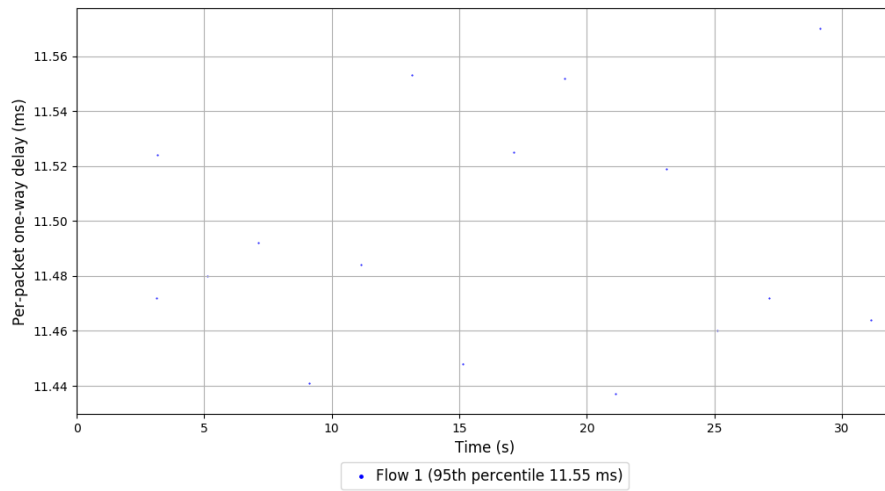
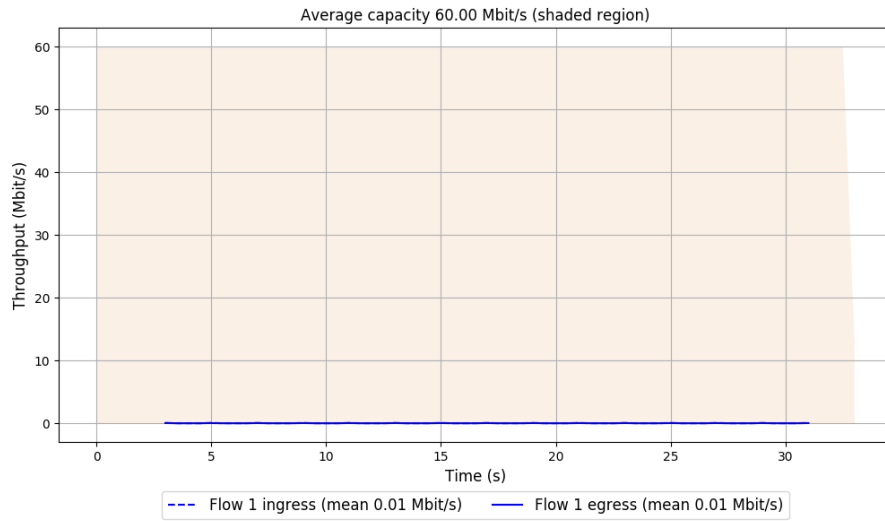
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 11.553 ms

Loss rate: 53.69%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-27 10:11:23

End at: 2018-02-27 10:11:53

Below is generated by plot.py at 2018-02-27 10:42:25

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.01 Mbit/s (0.0% utilization)

95th percentile per-packet one-way delay: 11.812 ms

Loss rate: 64.97%

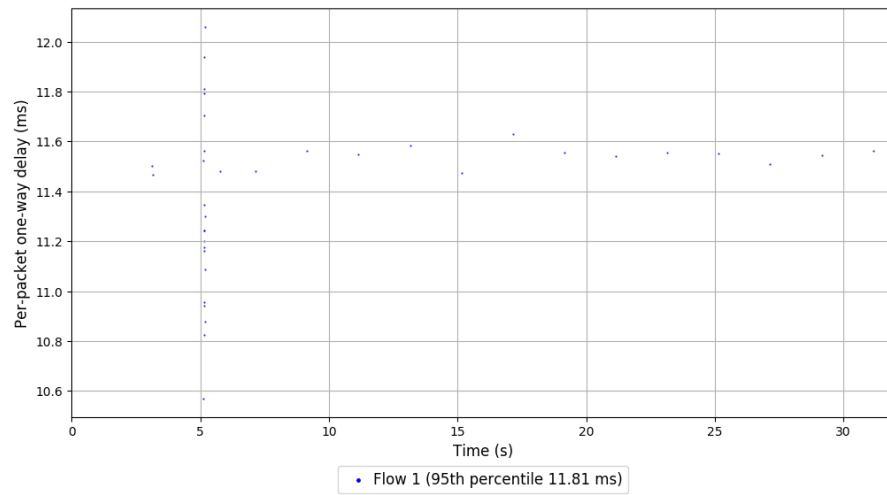
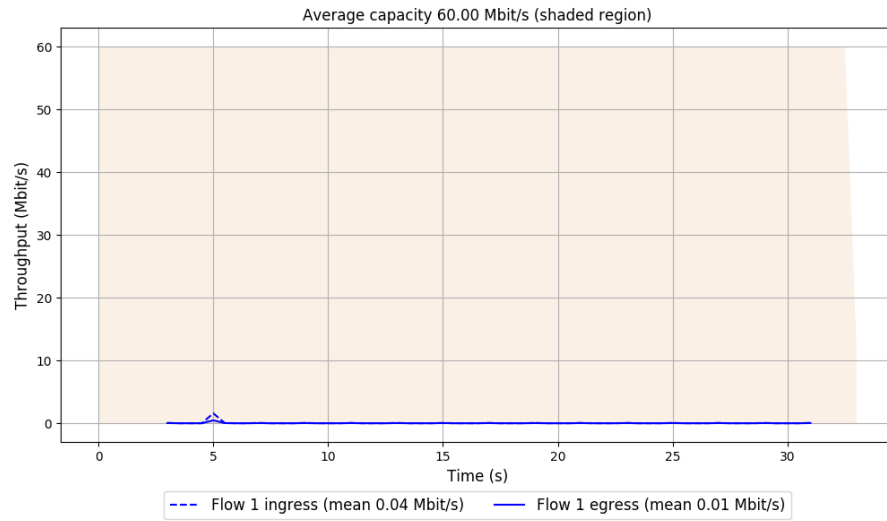
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 11.812 ms

Loss rate: 64.97%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-27 10:21:51

End at: 2018-02-27 10:22:21

Below is generated by plot.py at 2018-02-27 10:42:34

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.01 Mbit/s (0.0% utilization)

95th percentile per-packet one-way delay: 11.755 ms

Loss rate: 65.62%

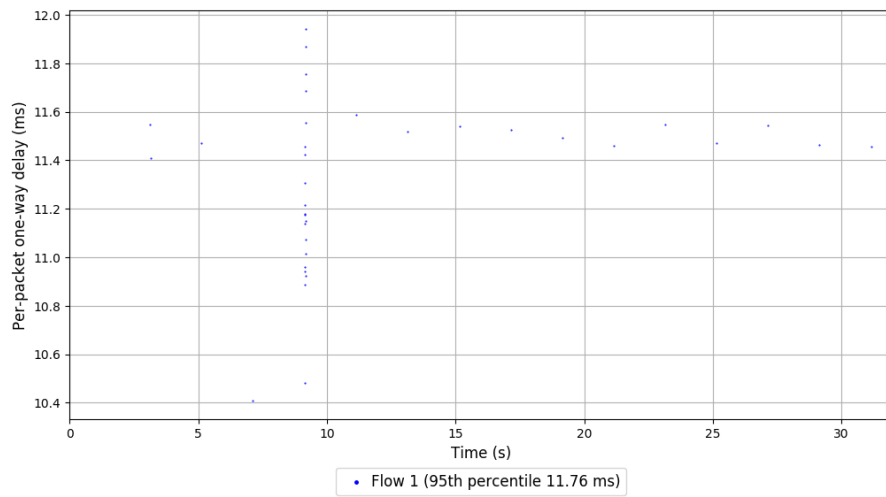
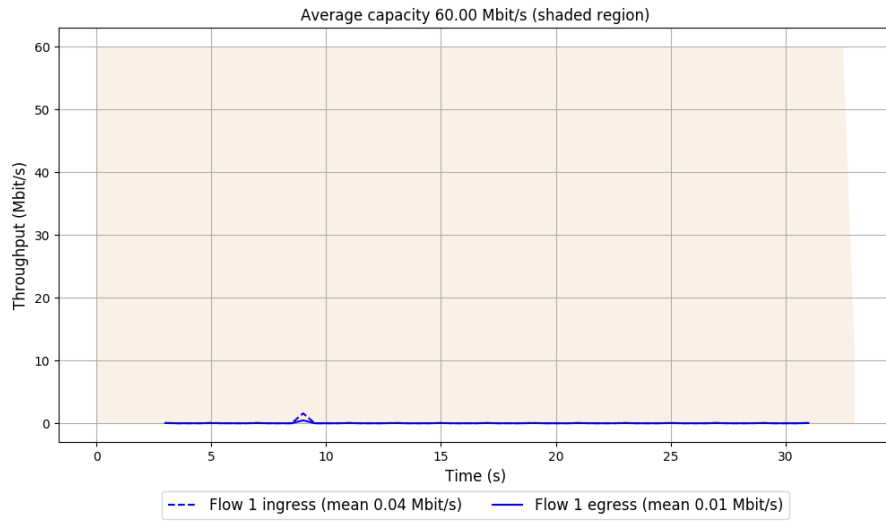
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 11.755 ms

Loss rate: 65.62%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-02-27 10:32:15

End at: 2018-02-27 10:32:45

Below is generated by plot.py at 2018-02-27 10:42:35

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.01 Mbit/s (0.0% utilization)

95th percentile per-packet one-way delay: 11.540 ms

Loss rate: 53.69%

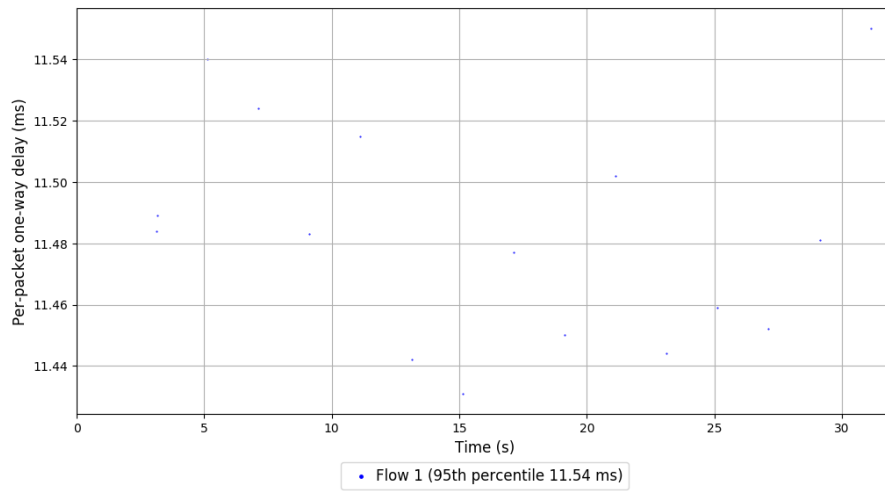
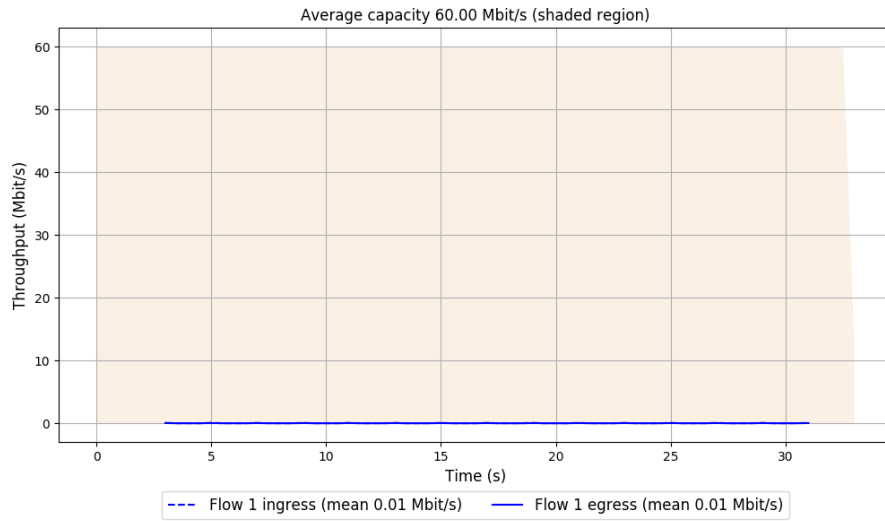
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 11.540 ms

Loss rate: 53.69%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-27 08:56:14

End at: 2018-02-27 08:56:44

Below is generated by plot.py at 2018-02-27 10:42:38

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.80 Mbit/s (1.3% utilization)

95th percentile per-packet one-way delay: 11.535 ms

Loss rate: 15.96%

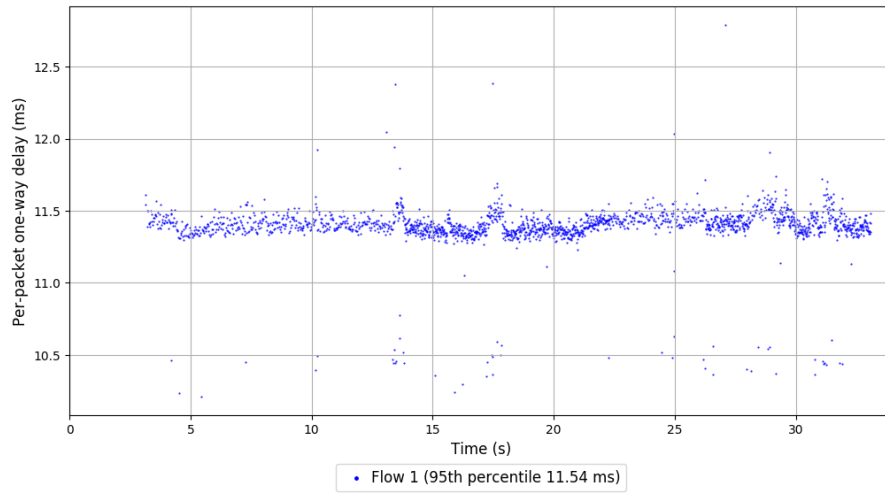
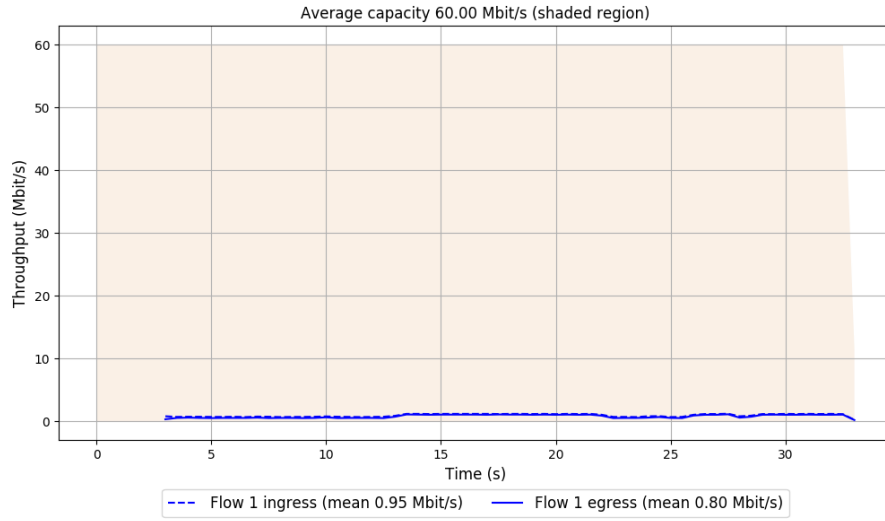
-- Flow 1:

Average throughput: 0.80 Mbit/s

95th percentile per-packet one-way delay: 11.535 ms

Loss rate: 15.96%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-27 09:06:38

End at: 2018-02-27 09:07:08

Below is generated by plot.py at 2018-02-27 10:42:38

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.69 Mbit/s (1.2% utilization)

95th percentile per-packet one-way delay: 11.507 ms

Loss rate: 18.78%

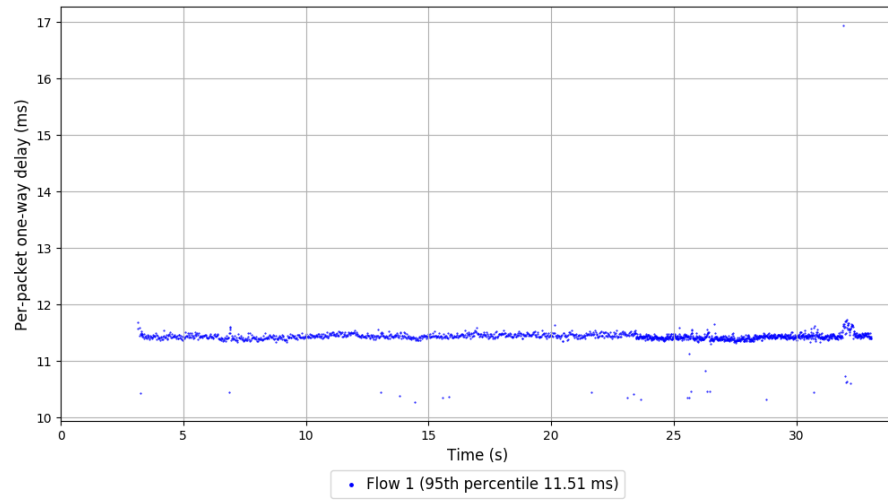
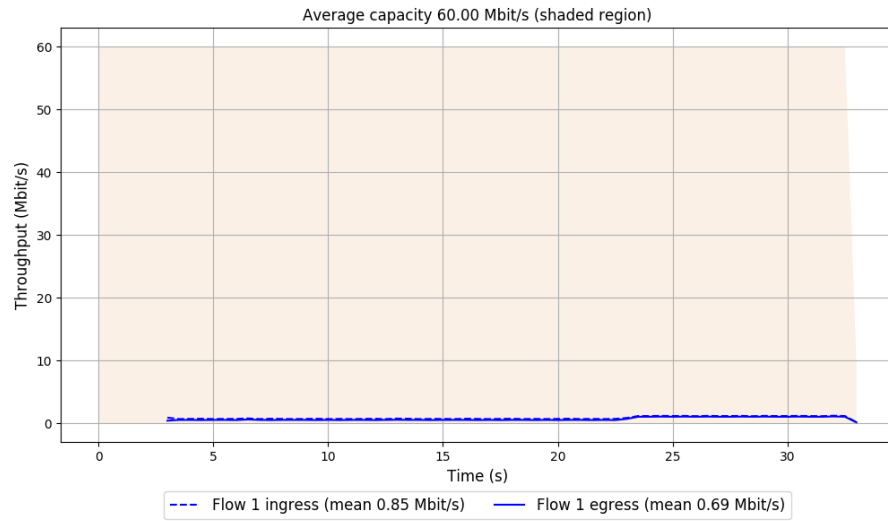
-- Flow 1:

Average throughput: 0.69 Mbit/s

95th percentile per-packet one-way delay: 11.507 ms

Loss rate: 18.78%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-27 09:17:02

End at: 2018-02-27 09:17:32

Below is generated by plot.py at 2018-02-27 10:42:39

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.66 Mbit/s (1.1% utilization)

95th percentile per-packet one-way delay: 11.607 ms

Loss rate: 19.91%

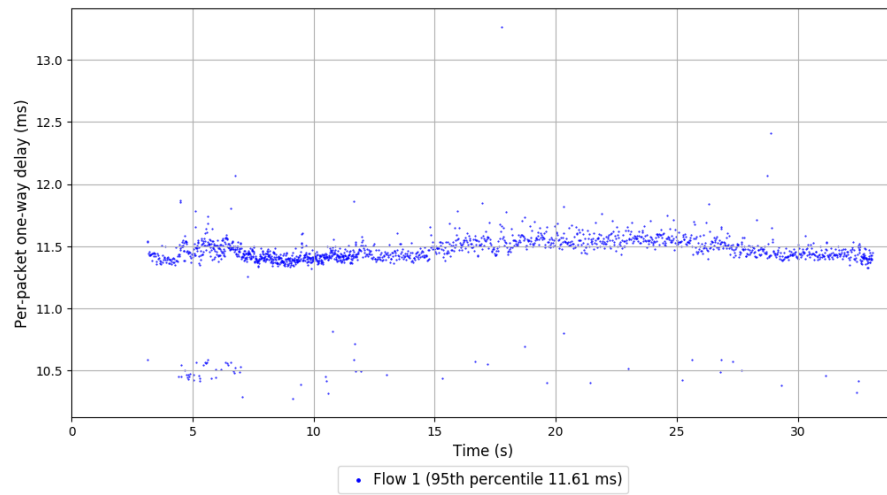
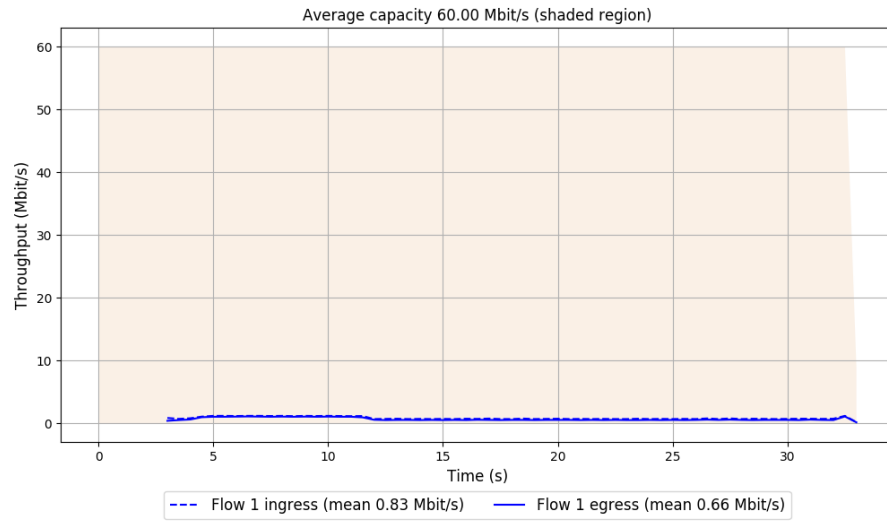
-- Flow 1:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 11.607 ms

Loss rate: 19.91%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-27 09:27:26

End at: 2018-02-27 09:27:56

Below is generated by plot.py at 2018-02-27 10:42:42

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.62 Mbit/s (1.0% utilization)

95th percentile per-packet one-way delay: 11.495 ms

Loss rate: 21.58%

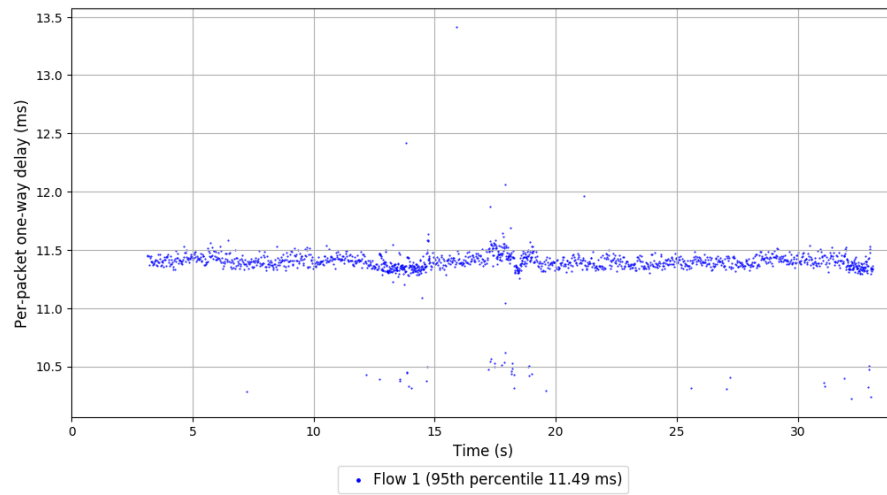
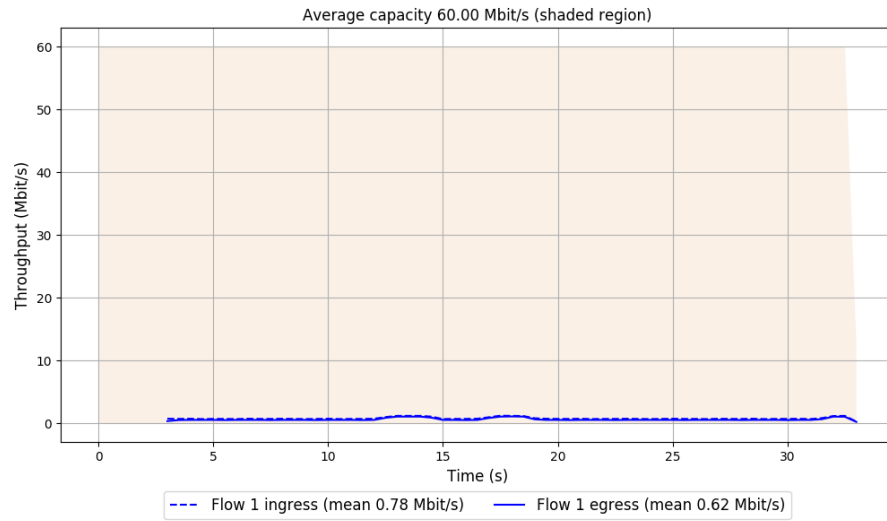
-- Flow 1:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 11.495 ms

Loss rate: 21.58%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-27 09:37:50

End at: 2018-02-27 09:38:20

Below is generated by plot.py at 2018-02-27 10:42:42

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.61 Mbit/s (1.0% utilization)

95th percentile per-packet one-way delay: 11.479 ms

Loss rate: 21.86%

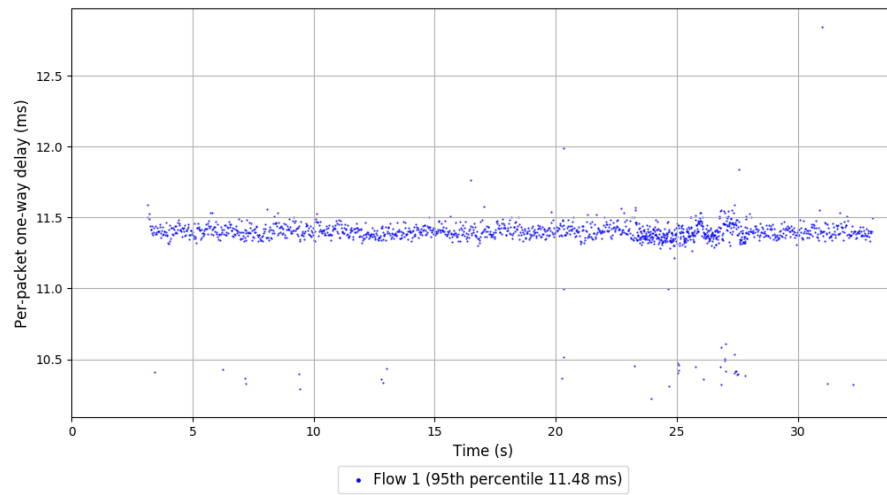
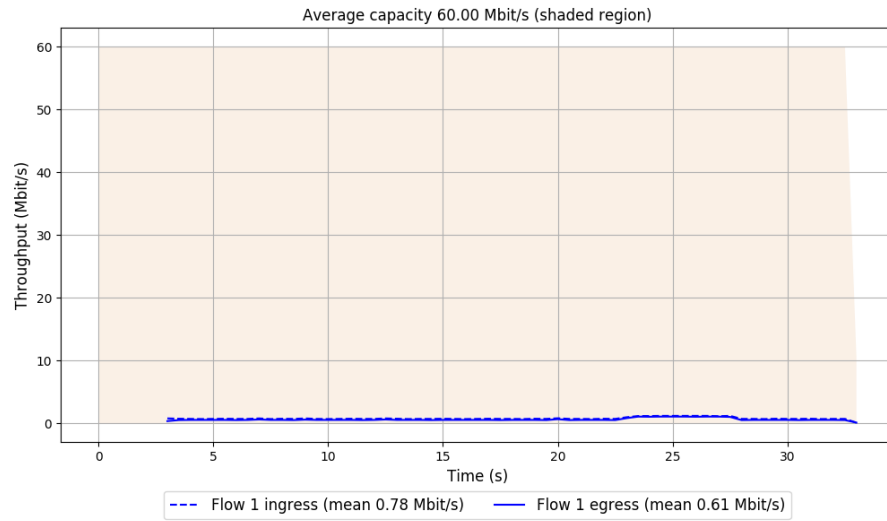
-- Flow 1:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 11.479 ms

Loss rate: 21.86%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-27 09:48:16

End at: 2018-02-27 09:48:46

Below is generated by plot.py at 2018-02-27 10:42:44

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.83 Mbit/s (1.4% utilization)

95th percentile per-packet one-way delay: 11.480 ms

Loss rate: 15.08%

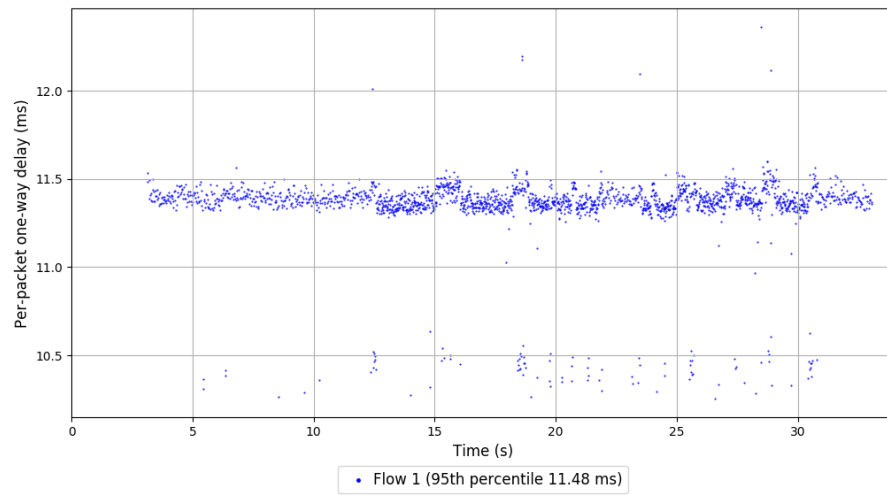
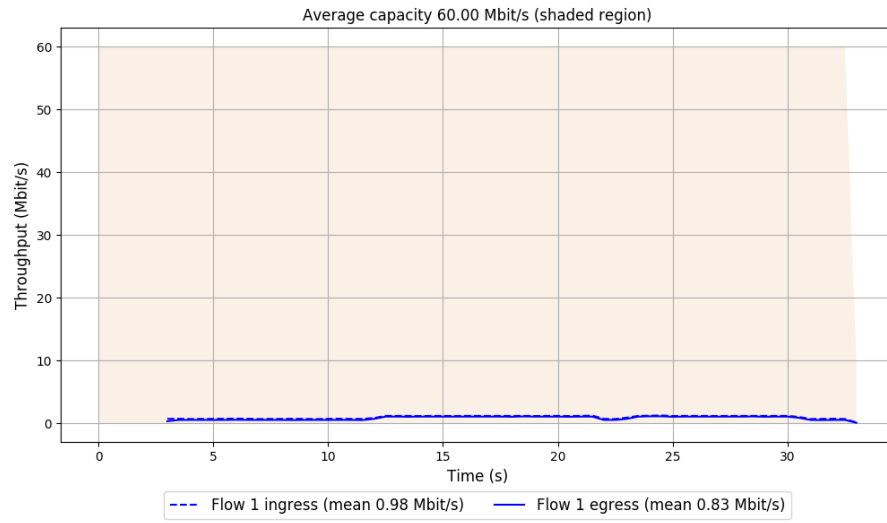
-- Flow 1:

Average throughput: 0.83 Mbit/s

95th percentile per-packet one-way delay: 11.480 ms

Loss rate: 15.08%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-27 09:58:41

End at: 2018-02-27 09:59:11

Below is generated by plot.py at 2018-02-27 10:42:55

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.67 Mbit/s (1.1% utilization)

95th percentile per-packet one-way delay: 11.473 ms

Loss rate: 19.59%

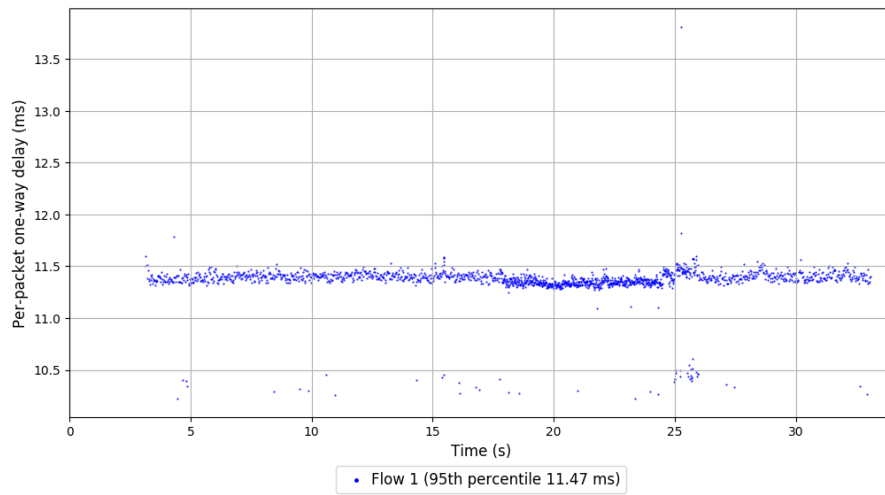
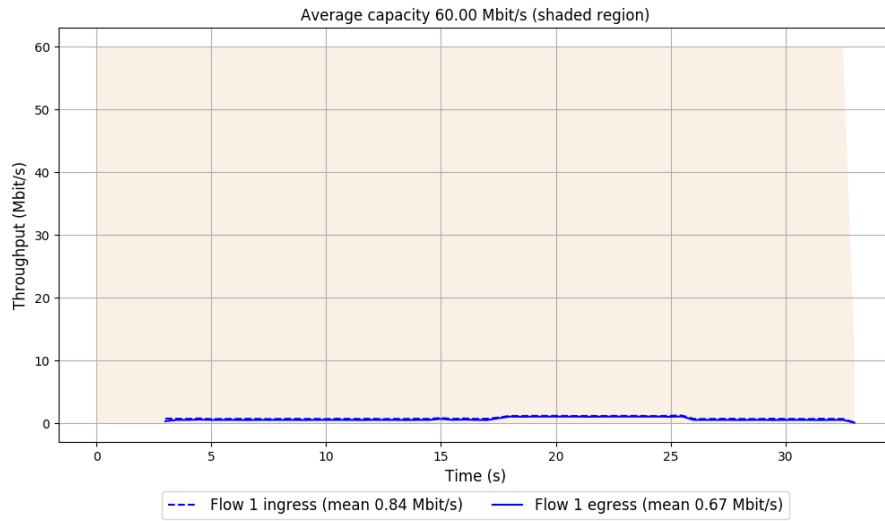
-- Flow 1:

Average throughput: 0.67 Mbit/s

95th percentile per-packet one-way delay: 11.473 ms

Loss rate: 19.59%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-27 10:09:05

End at: 2018-02-27 10:09:35

Below is generated by plot.py at 2018-02-27 10:42:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.94 Mbit/s (1.6% utilization)

95th percentile per-packet one-way delay: 11.489 ms

Loss rate: 12.48%

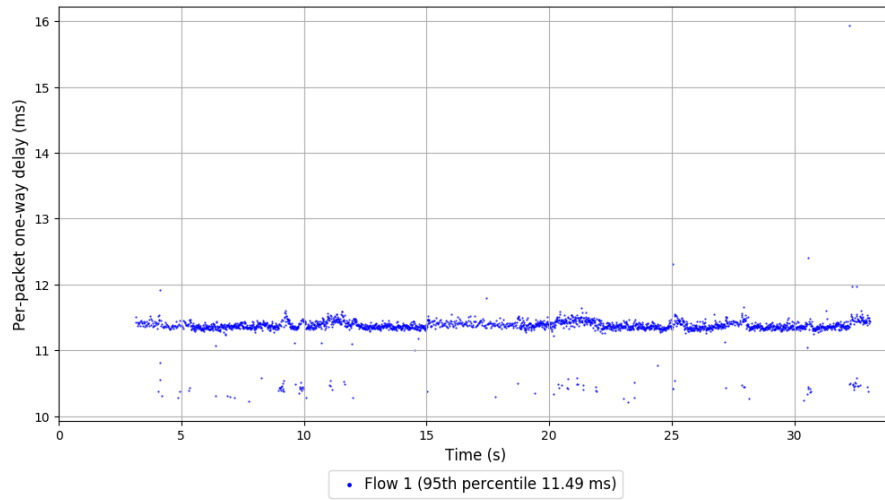
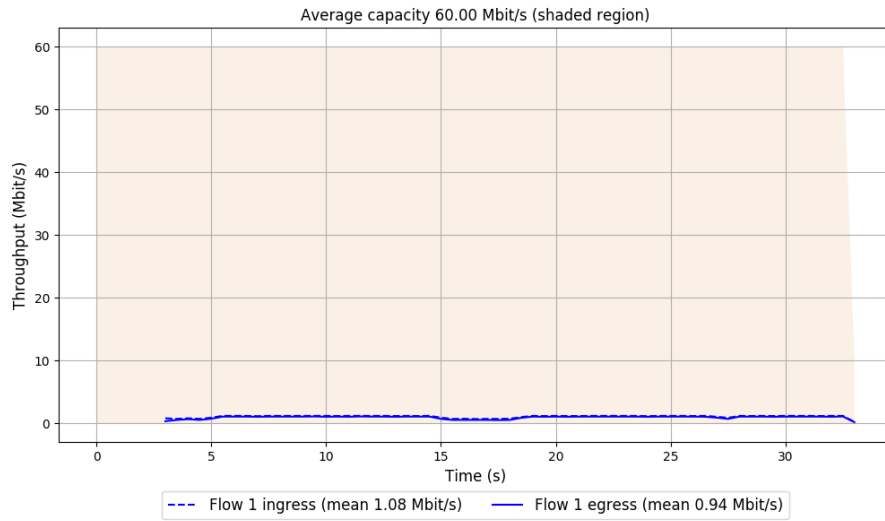
-- Flow 1:

Average throughput: 0.94 Mbit/s

95th percentile per-packet one-way delay: 11.489 ms

Loss rate: 12.48%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-27 10:19:32

End at: 2018-02-27 10:20:02

Below is generated by plot.py at 2018-02-27 10:42:59

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.80 Mbit/s (1.3% utilization)

95th percentile per-packet one-way delay: 11.521 ms

Loss rate: 15.83%

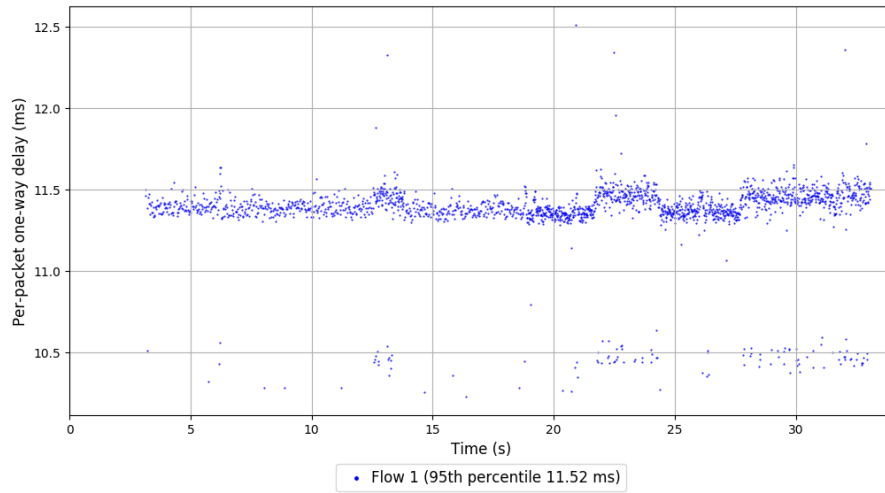
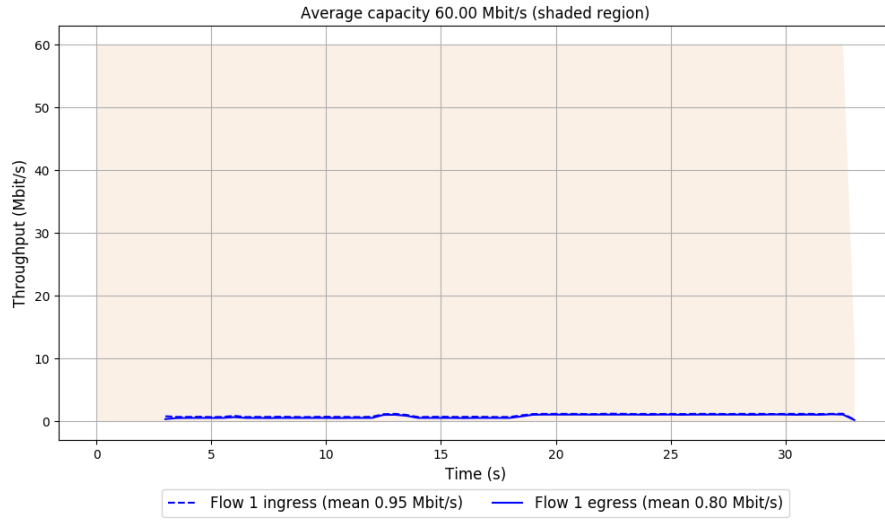
-- Flow 1:

Average throughput: 0.80 Mbit/s

95th percentile per-packet one-way delay: 11.521 ms

Loss rate: 15.83%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-27 10:29:57

End at: 2018-02-27 10:30:27

Below is generated by plot.py at 2018-02-27 10:43:00

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.74 Mbit/s (1.2% utilization)

95th percentile per-packet one-way delay: 11.518 ms

Loss rate: 17.36%

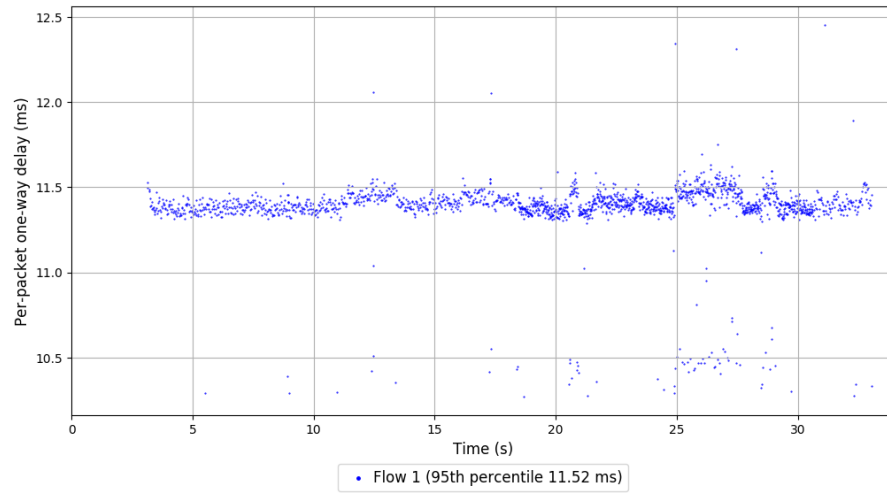
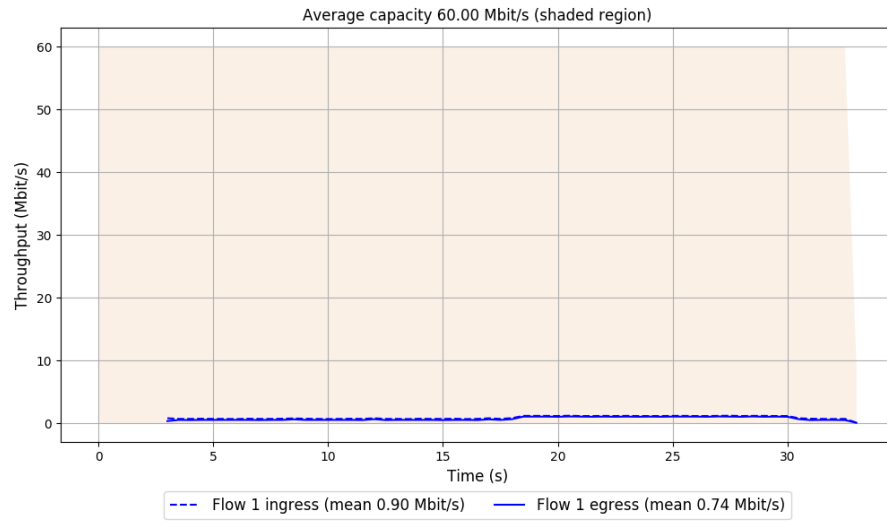
-- Flow 1:

Average throughput: 0.74 Mbit/s

95th percentile per-packet one-way delay: 11.518 ms

Loss rate: 17.36%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-27 09:00:16

End at: 2018-02-27 09:00:46

Below is generated by plot.py at 2018-02-27 10:43:31

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 2.09 Mbit/s (3.5% utilization)

95th percentile per-packet one-way delay: 12.105 ms

Loss rate: 98.49%

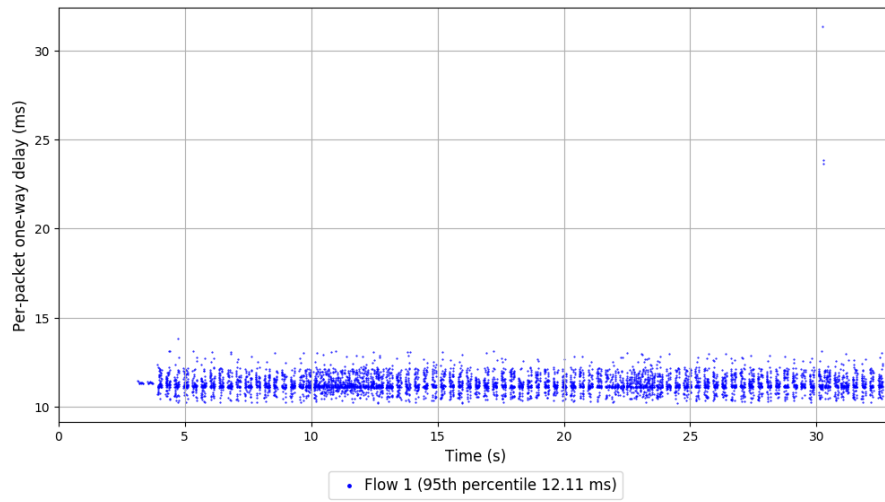
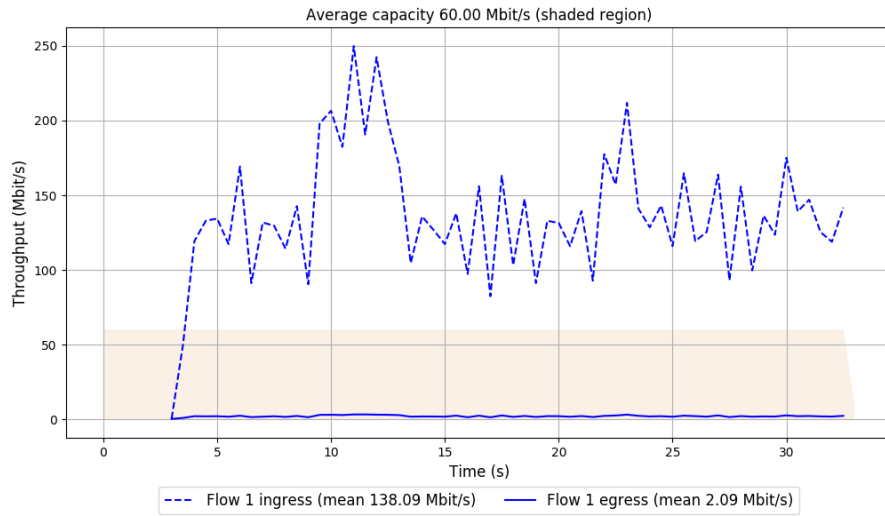
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 12.105 ms

Loss rate: 98.49%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-27 09:10:40

End at: 2018-02-27 09:11:10

Below is generated by plot.py at 2018-02-27 10:43:31

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.90 Mbit/s (3.2% utilization)

95th percentile per-packet one-way delay: 12.116 ms

Loss rate: 98.30%

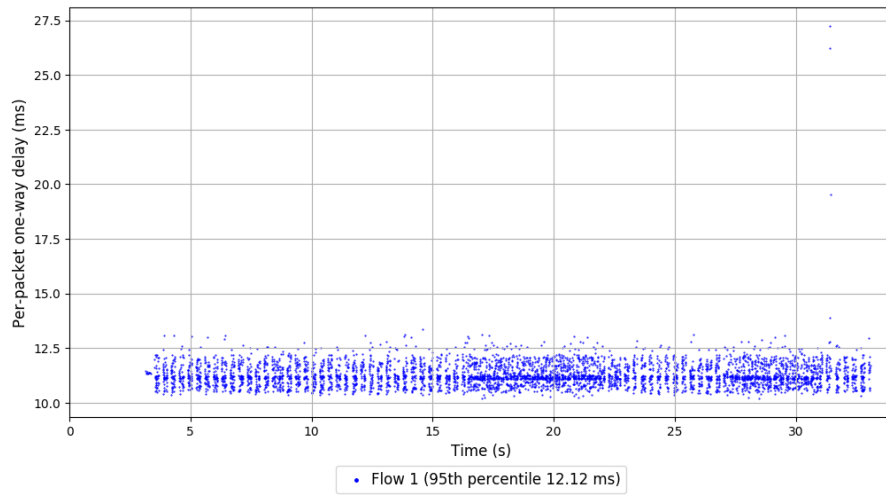
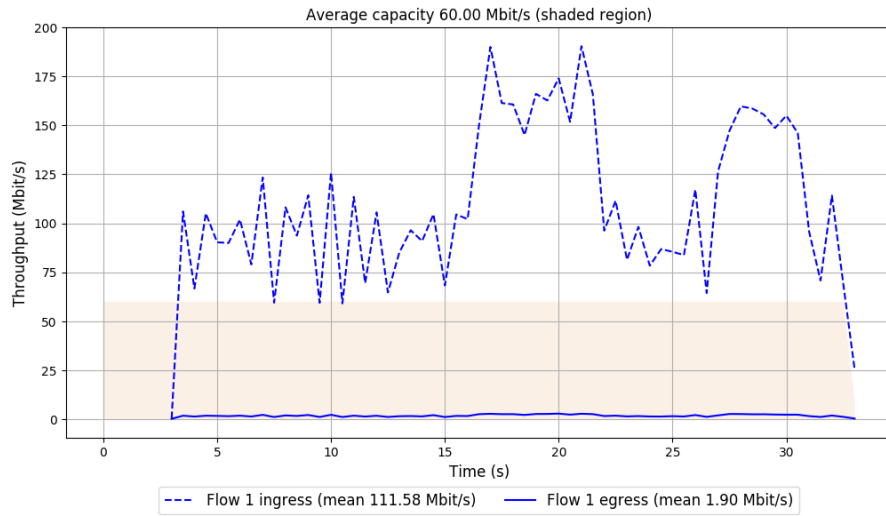
-- Flow 1:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 12.116 ms

Loss rate: 98.30%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-27 09:21:03

End at: 2018-02-27 09:21:33

Below is generated by plot.py at 2018-02-27 10:43:42

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 2.51 Mbit/s (4.2% utilization)

95th percentile per-packet one-way delay: 12.102 ms

Loss rate: 98.54%

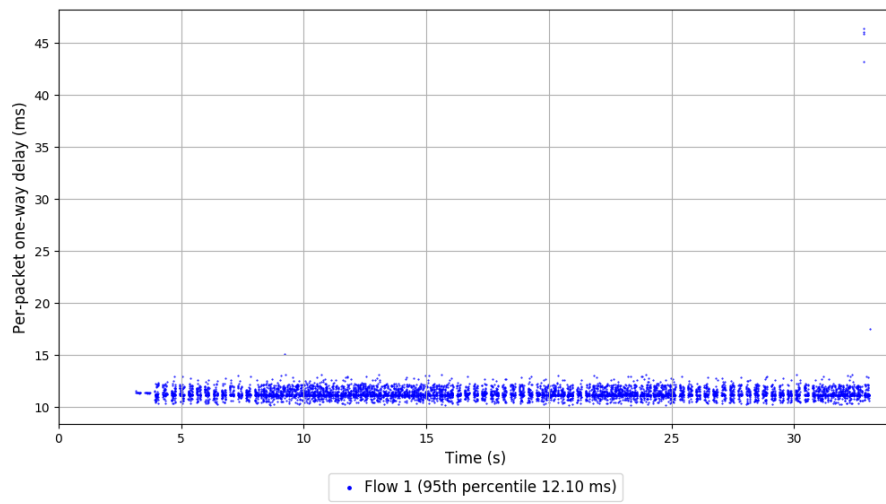
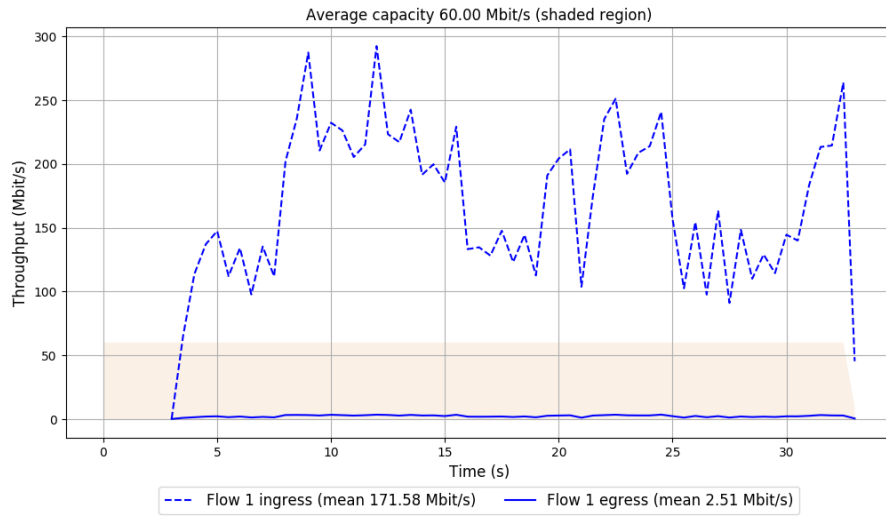
-- Flow 1:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 12.102 ms

Loss rate: 98.54%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-27 09:31:28

End at: 2018-02-27 09:31:58

Below is generated by plot.py at 2018-02-27 10:43:42

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 2.39 Mbit/s (4.0% utilization)

95th percentile per-packet one-way delay: 12.085 ms

Loss rate: 98.26%

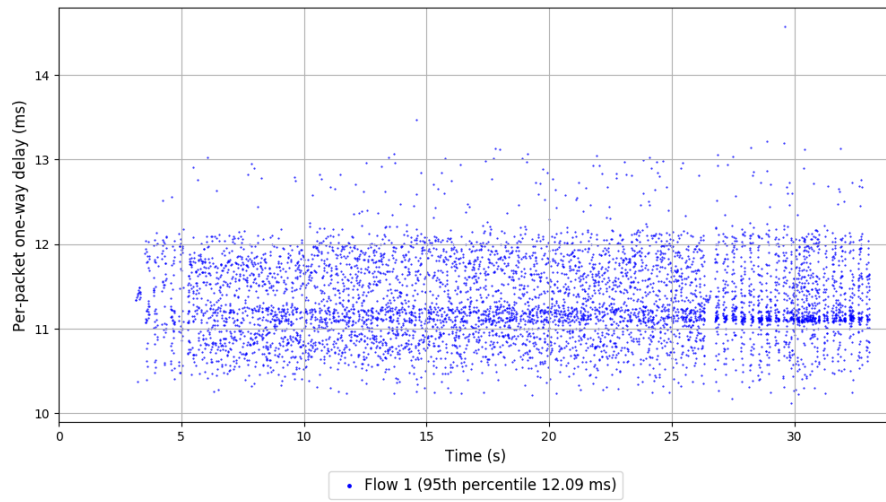
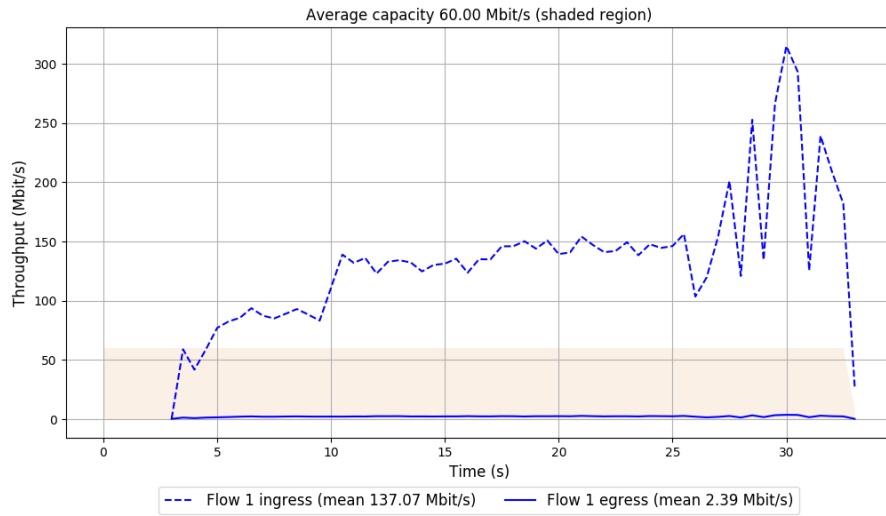
-- Flow 1:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 12.085 ms

Loss rate: 98.26%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-27 09:41:51

End at: 2018-02-27 09:42:21

Below is generated by plot.py at 2018-02-27 10:44:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 3.09 Mbit/s (5.2% utilization)

95th percentile per-packet one-way delay: 12.087 ms

Loss rate: 98.74%

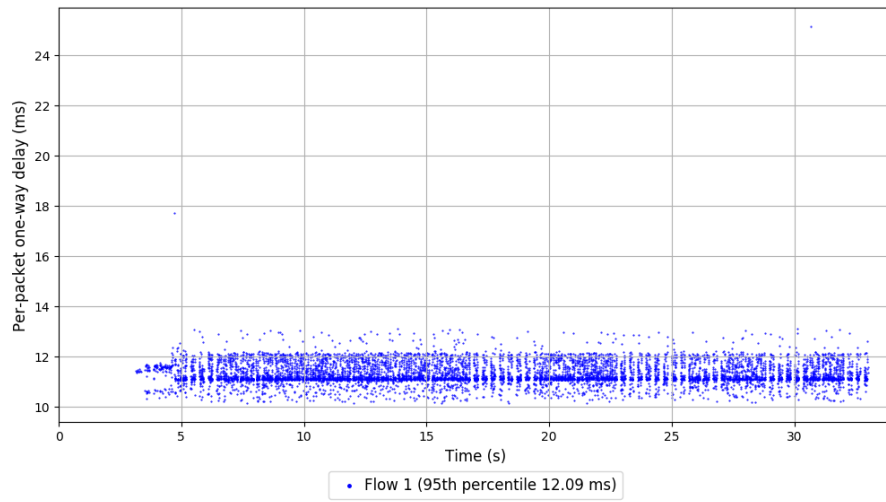
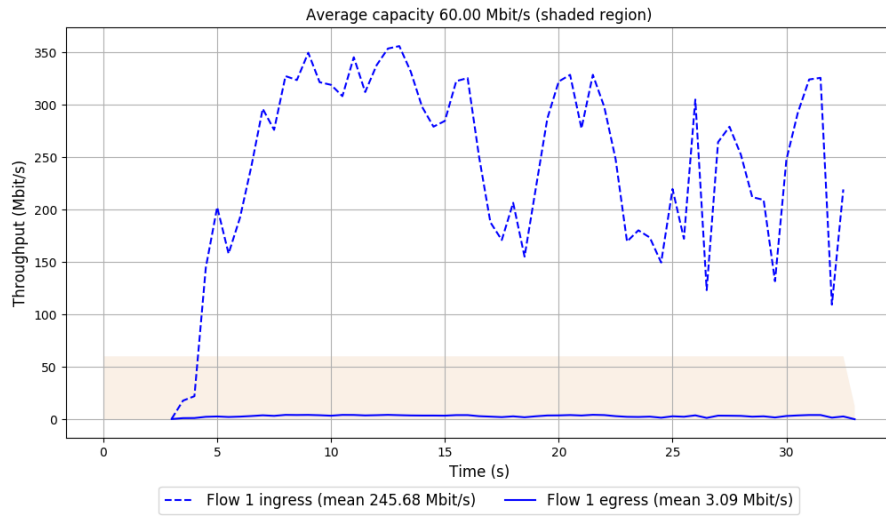
-- Flow 1:

Average throughput: 3.09 Mbit/s

95th percentile per-packet one-way delay: 12.087 ms

Loss rate: 98.74%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-27 09:52:18

End at: 2018-02-27 09:52:48

Below is generated by plot.py at 2018-02-27 10:44:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 2.51 Mbit/s (4.2% utilization)

95th percentile per-packet one-way delay: 12.065 ms

Loss rate: 98.67%

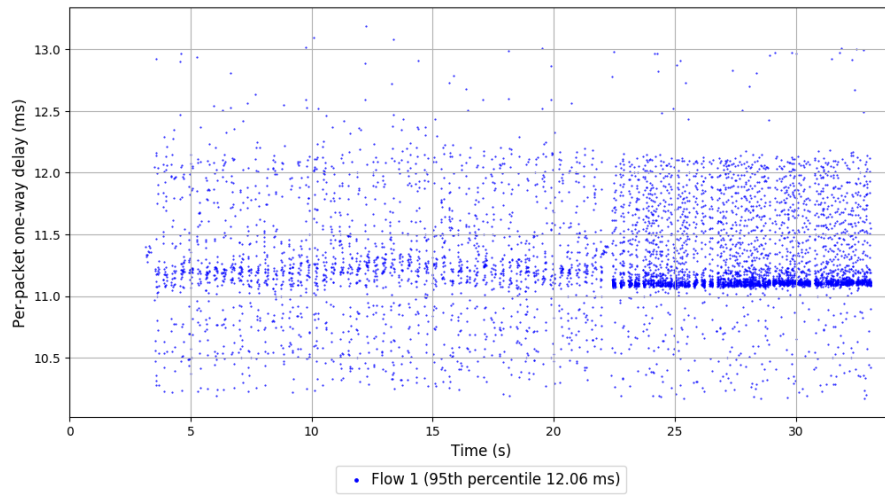
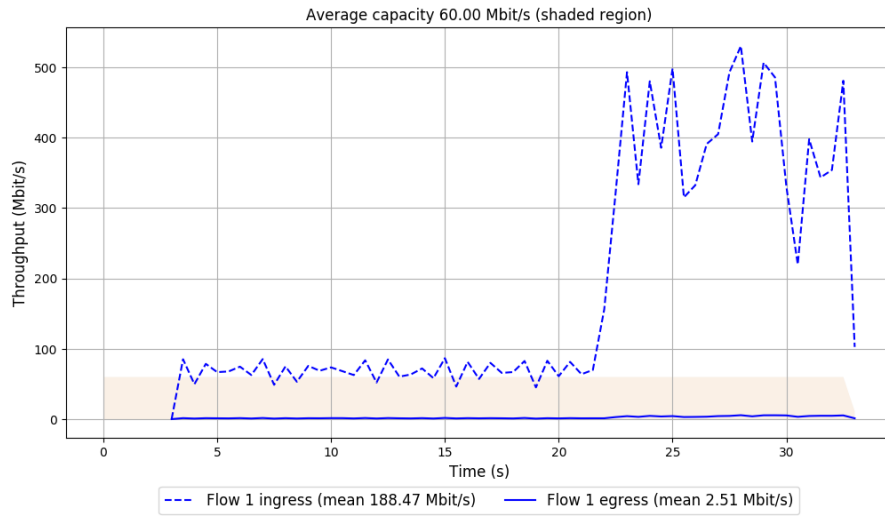
-- Flow 1:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 12.065 ms

Loss rate: 98.67%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-27 10:02:43

End at: 2018-02-27 10:03:13

Below is generated by plot.py at 2018-02-27 10:44:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 2.05 Mbit/s (3.4% utilization)

95th percentile per-packet one-way delay: 12.114 ms

Loss rate: 98.41%

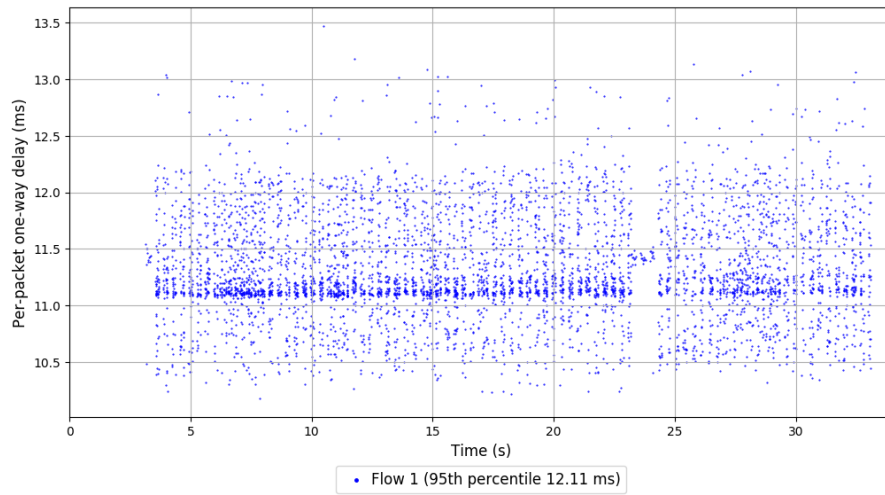
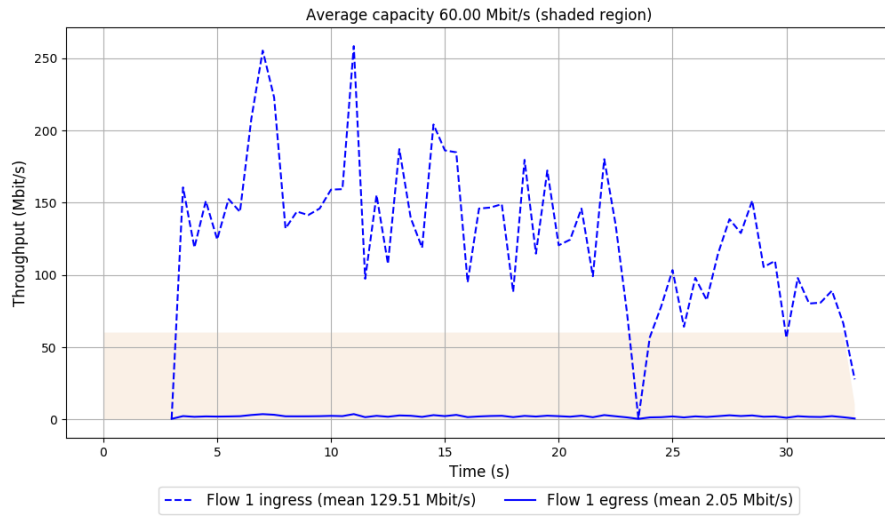
-- Flow 1:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 12.114 ms

Loss rate: 98.41%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-27 10:13:06

End at: 2018-02-27 10:13:36

Below is generated by plot.py at 2018-02-27 10:44:38

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 3.51 Mbit/s (5.8% utilization)

95th percentile per-packet one-way delay: 12.048 ms

Loss rate: 98.93%

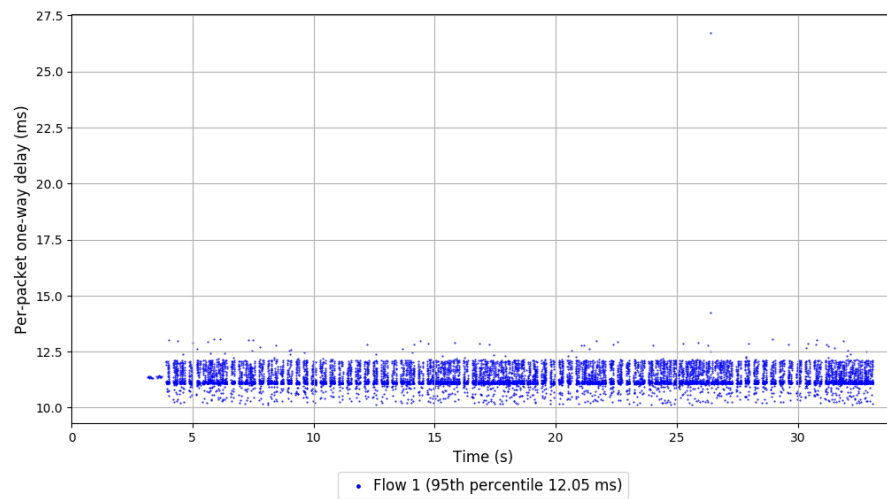
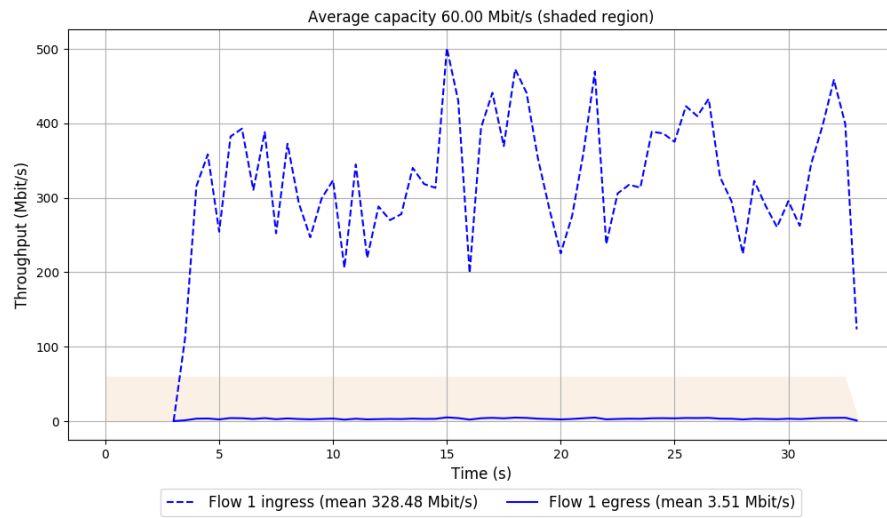
-- Flow 1:

Average throughput: 3.51 Mbit/s

95th percentile per-packet one-way delay: 12.048 ms

Loss rate: 98.93%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-27 10:23:35

End at: 2018-02-27 10:24:05

Below is generated by plot.py at 2018-02-27 10:44:38

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.84 Mbit/s (3.1% utilization)

95th percentile per-packet one-way delay: 12.108 ms

Loss rate: 98.21%

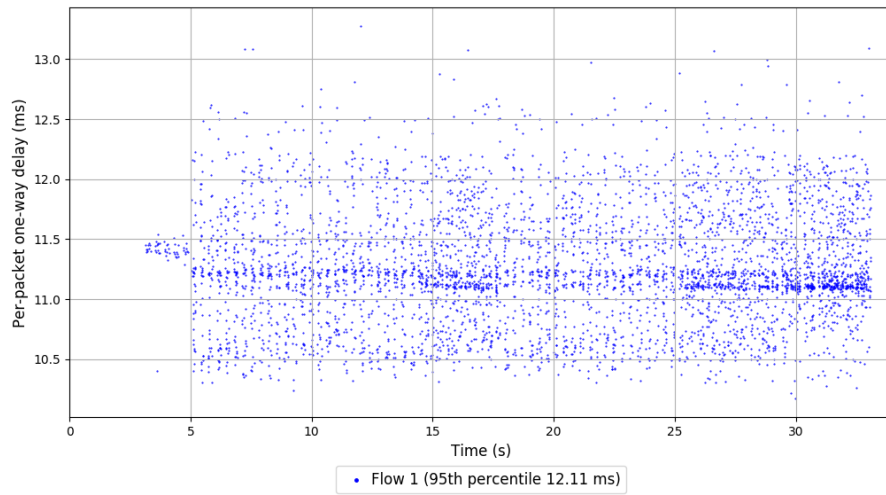
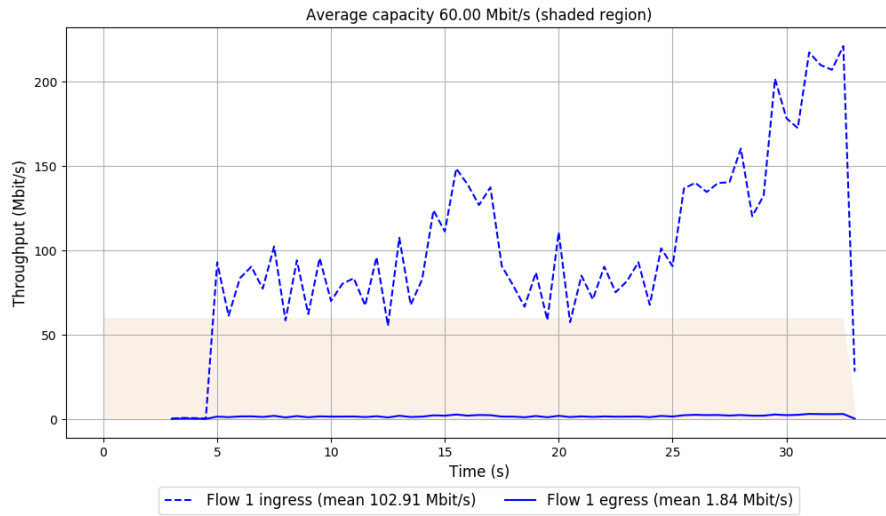
-- Flow 1:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 12.108 ms

Loss rate: 98.21%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-27 10:33:58

End at: 2018-02-27 10:34:28

Below is generated by plot.py at 2018-02-27 10:44:38

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.52 Mbit/s (2.5% utilization)

95th percentile per-packet one-way delay: 12.103 ms

Loss rate: 98.06%

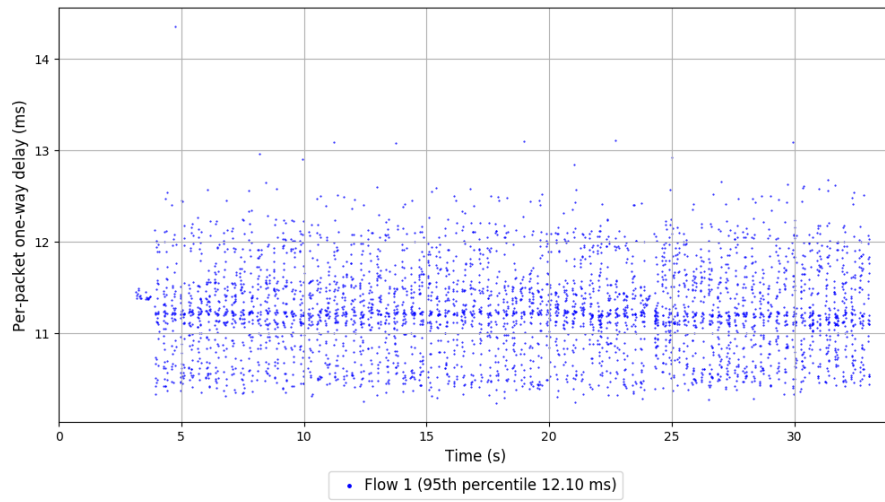
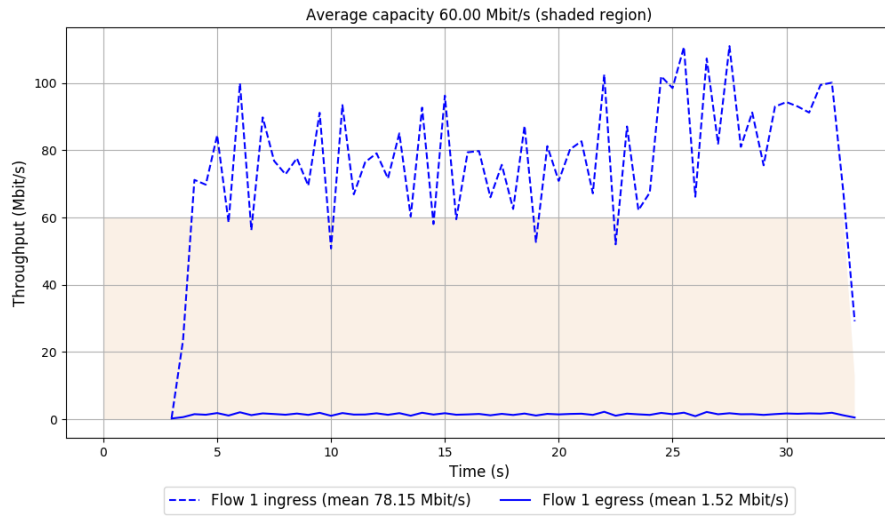
-- Flow 1:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 12.103 ms

Loss rate: 98.06%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-27 09:01:28

End at: 2018-02-27 09:01:58

Below is generated by plot.py at 2018-02-27 10:44:38

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.01 Mbit/s (0.0% utilization)

95th percentile per-packet one-way delay: 11.664 ms

Loss rate: 92.72%

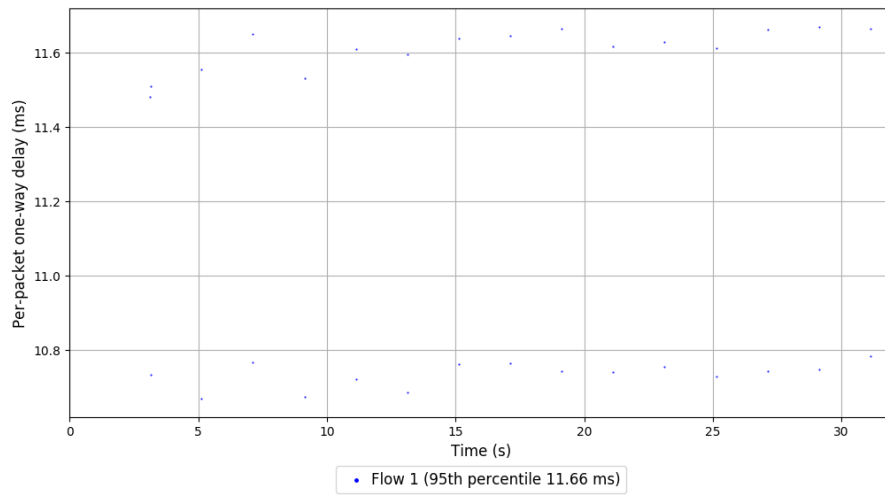
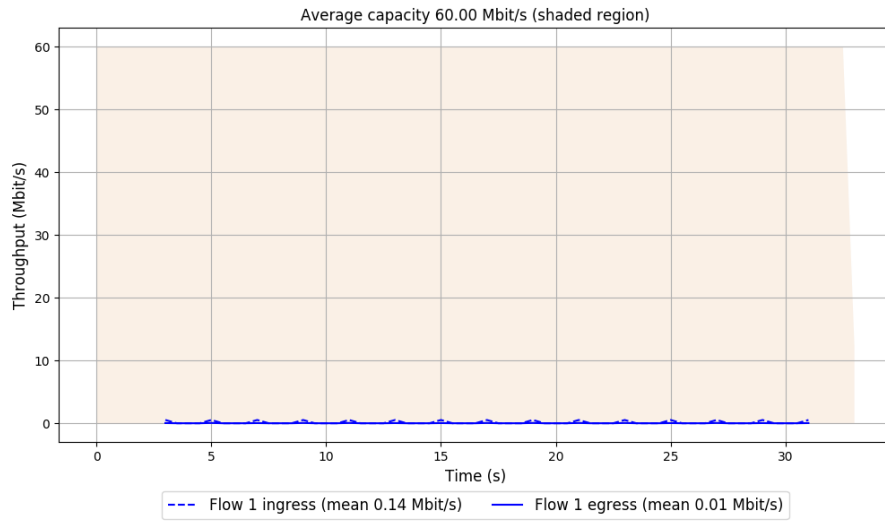
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 11.664 ms

Loss rate: 92.72%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-27 09:11:52

End at: 2018-02-27 09:12:22

Below is generated by plot.py at 2018-02-27 10:44:38

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.01 Mbit/s (0.0% utilization)

95th percentile per-packet one-way delay: 11.792 ms

Loss rate: 95.05%

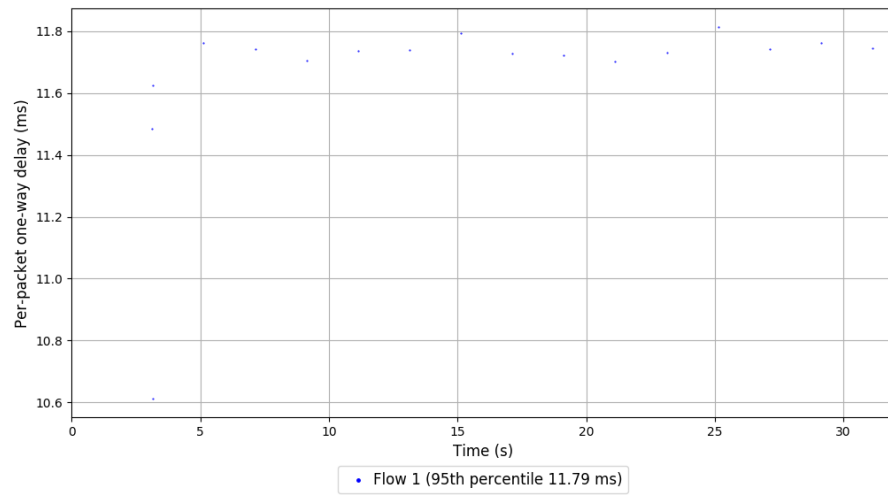
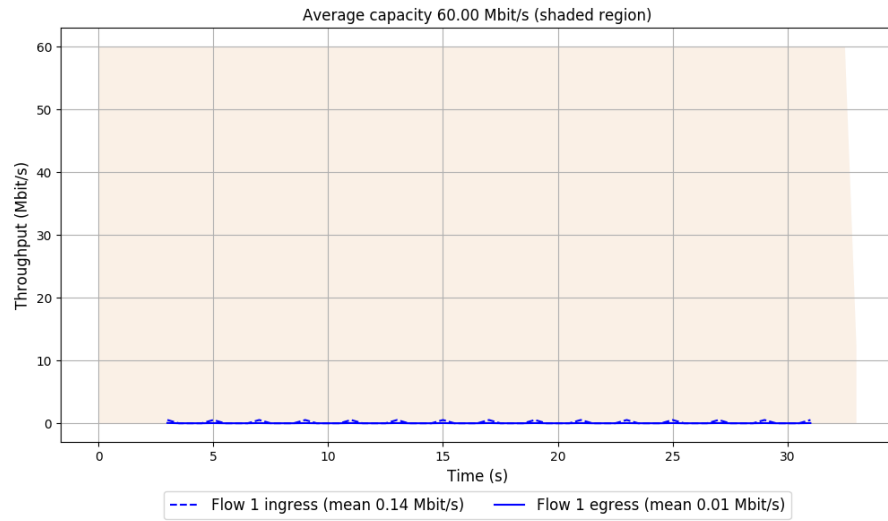
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 11.792 ms

Loss rate: 95.05%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-27 09:22:17

End at: 2018-02-27 09:22:47

Below is generated by plot.py at 2018-02-27 10:44:38

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.01 Mbit/s (0.0% utilization)

95th percentile per-packet one-way delay: 11.936 ms

Loss rate: 95.36%

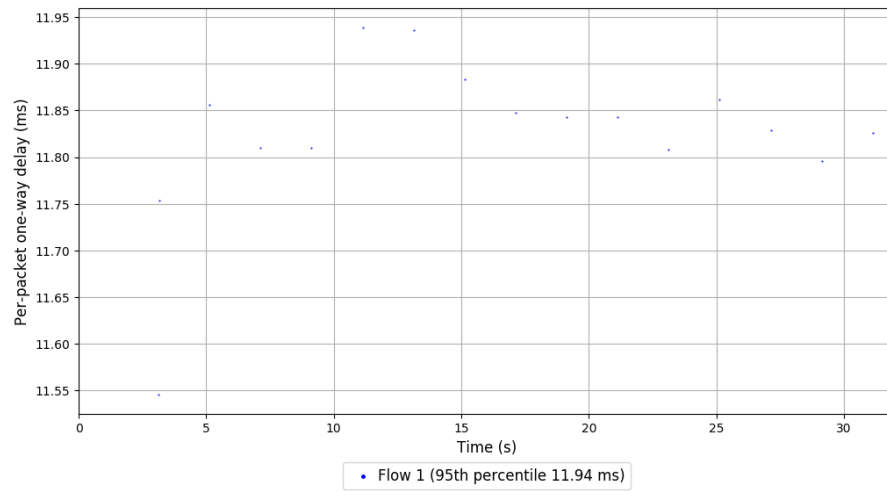
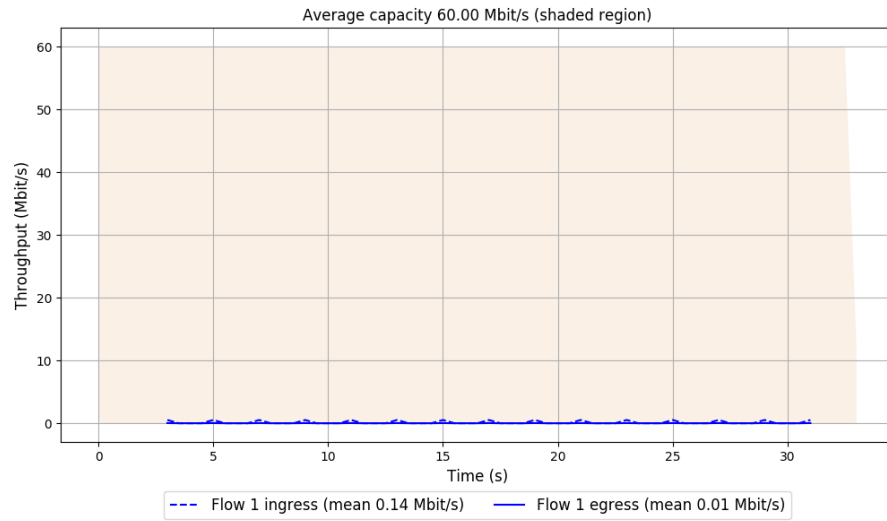
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 11.936 ms

Loss rate: 95.36%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-27 09:32:40

End at: 2018-02-27 09:33:10

Below is generated by plot.py at 2018-02-27 10:44:38

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.01 Mbit/s (0.0% utilization)

95th percentile per-packet one-way delay: 11.518 ms

Loss rate: 93.00%

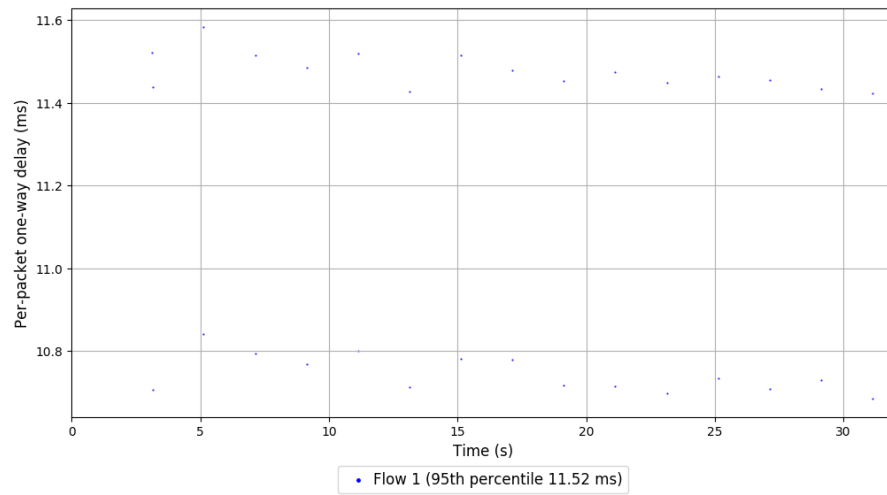
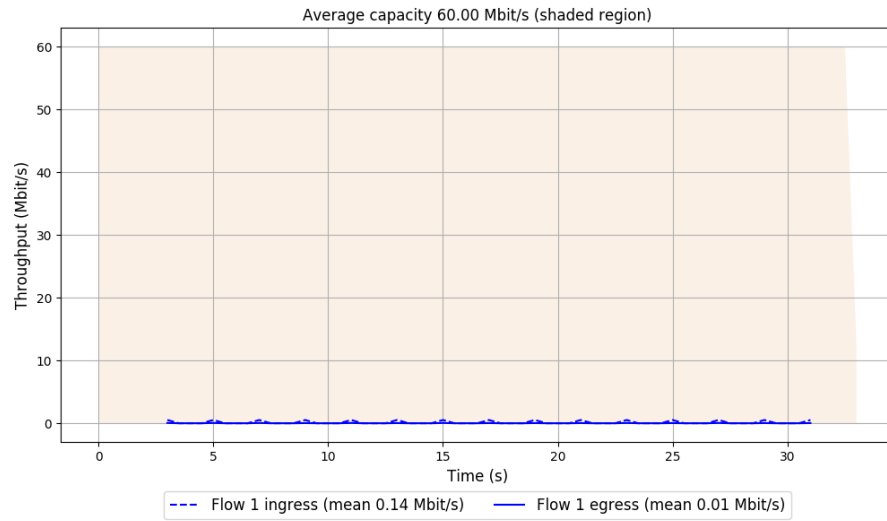
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 11.518 ms

Loss rate: 93.00%

Run 4: Report of Copa — Data Link

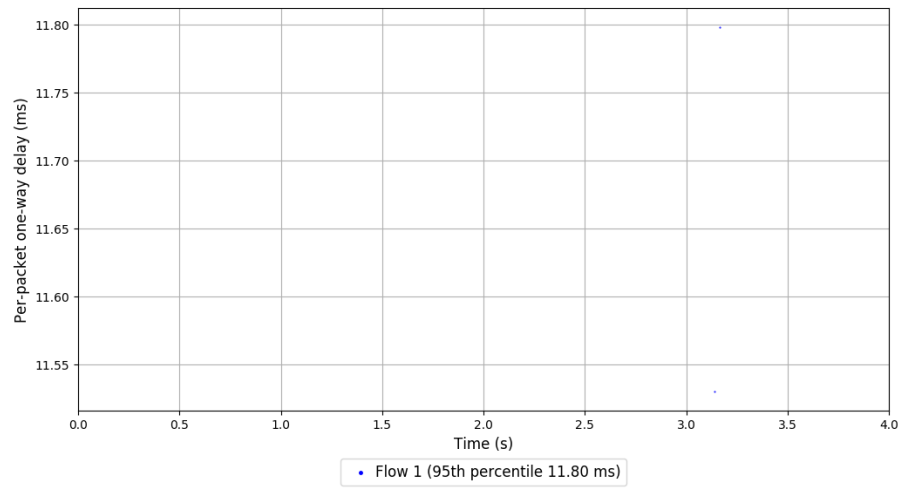
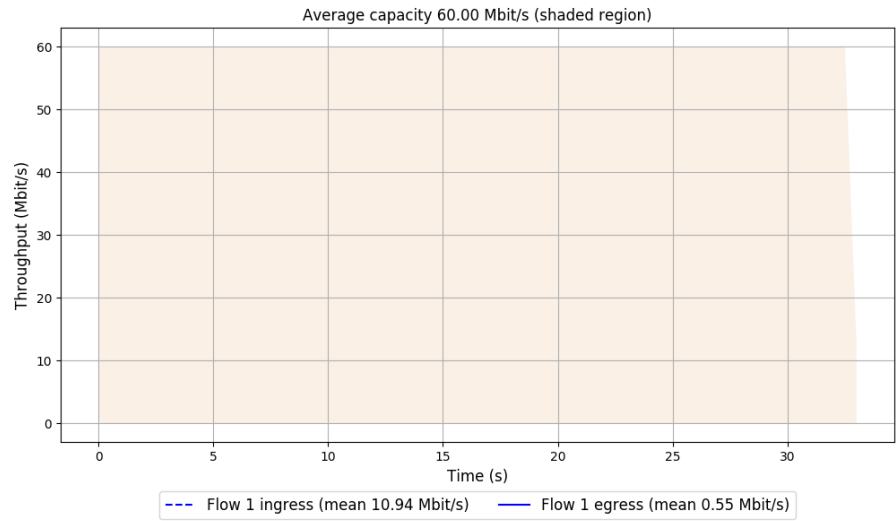


Run 5: Statistics of Copa

Start at: 2018-02-27 09:43:06

End at: 2018-02-27 09:43:36

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-27 09:53:31

End at: 2018-02-27 09:54:01

Below is generated by plot.py at 2018-02-27 10:44:38

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.01 Mbit/s (0.0% utilization)

95th percentile per-packet one-way delay: 11.780 ms

Loss rate: 95.36%

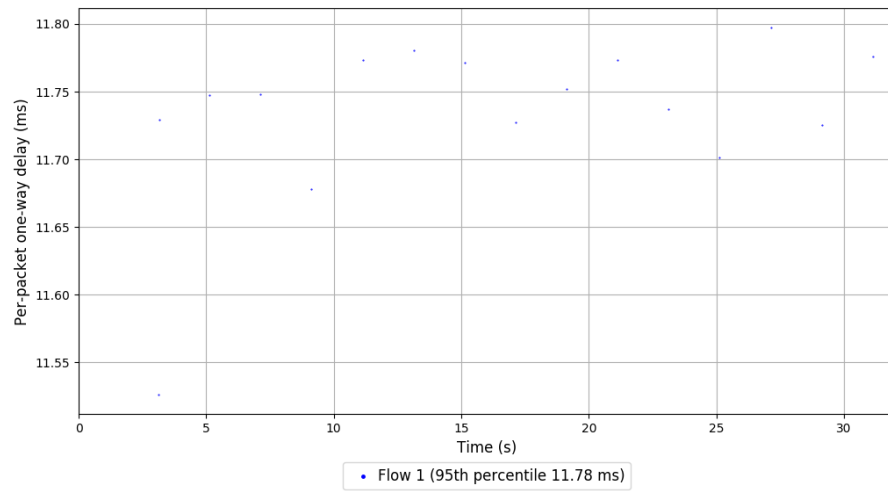
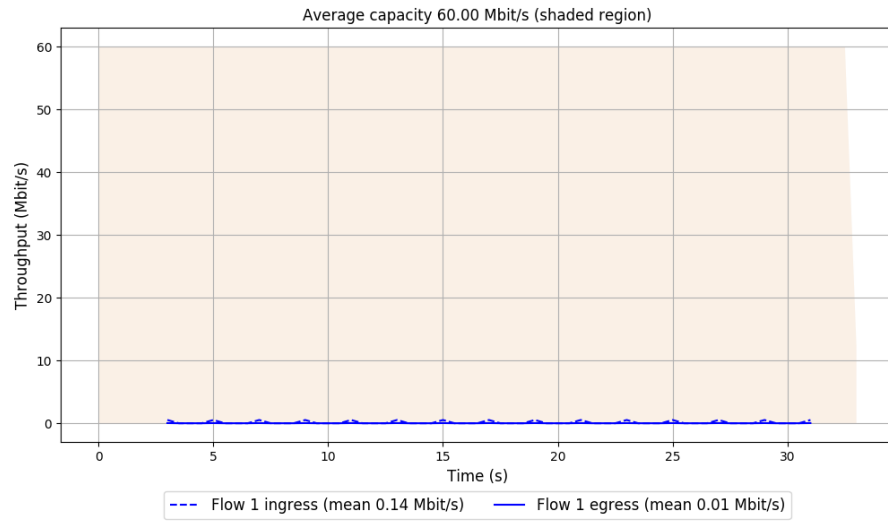
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 11.780 ms

Loss rate: 95.36%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-27 10:03:55

End at: 2018-02-27 10:04:25

Below is generated by plot.py at 2018-02-27 10:44:38

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.01 Mbit/s (0.0% utilization)

95th percentile per-packet one-way delay: 12.082 ms

Loss rate: 95.36%

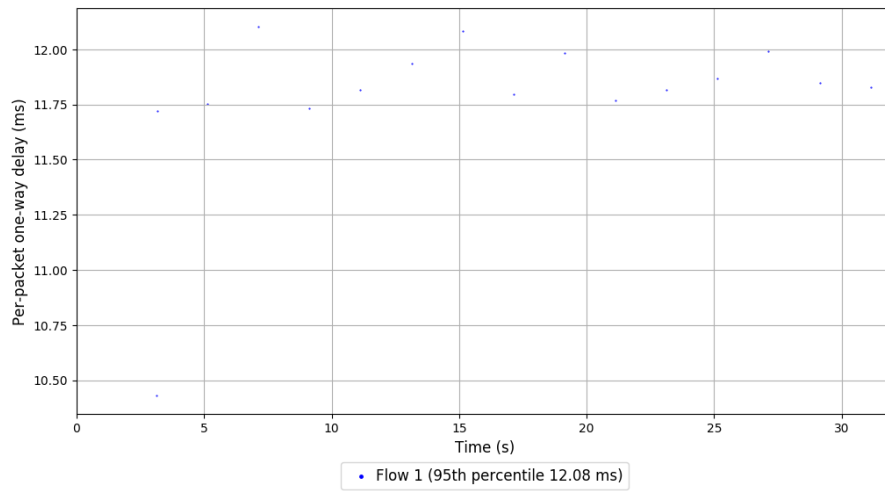
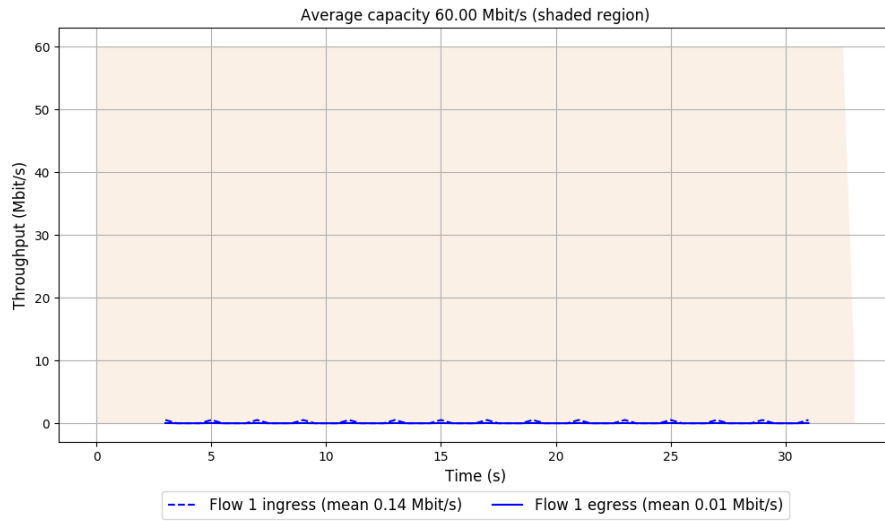
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 12.082 ms

Loss rate: 95.36%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-27 10:14:23

End at: 2018-02-27 10:14:53

Below is generated by plot.py at 2018-02-27 10:44:38

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.01 Mbit/s (0.0% utilization)

95th percentile per-packet one-way delay: 11.906 ms

Loss rate: 95.36%

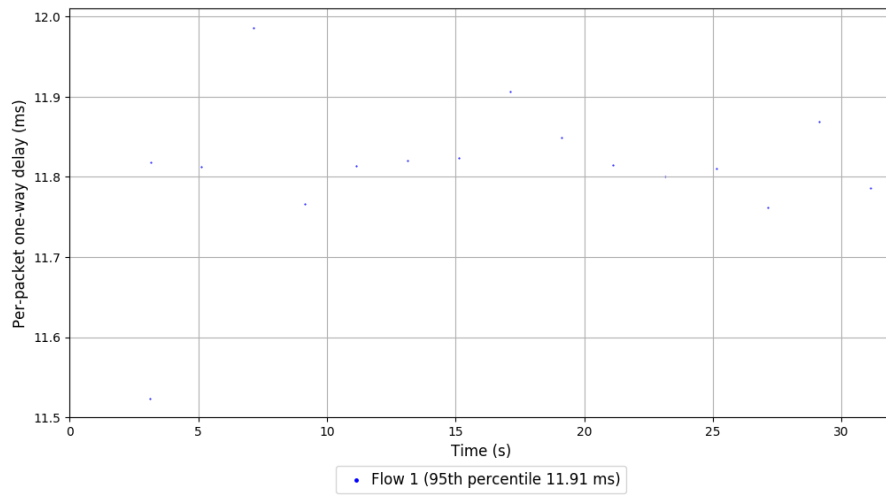
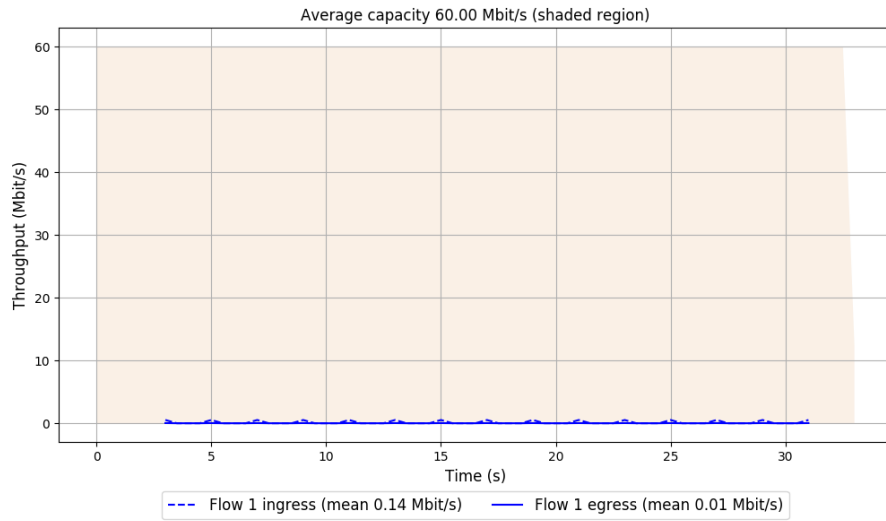
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 11.906 ms

Loss rate: 95.36%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-27 10:24:47

End at: 2018-02-27 10:25:17

Below is generated by plot.py at 2018-02-27 10:44:38

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.01 Mbit/s (0.0% utilization)

95th percentile per-packet one-way delay: 11.659 ms

Loss rate: 92.74%

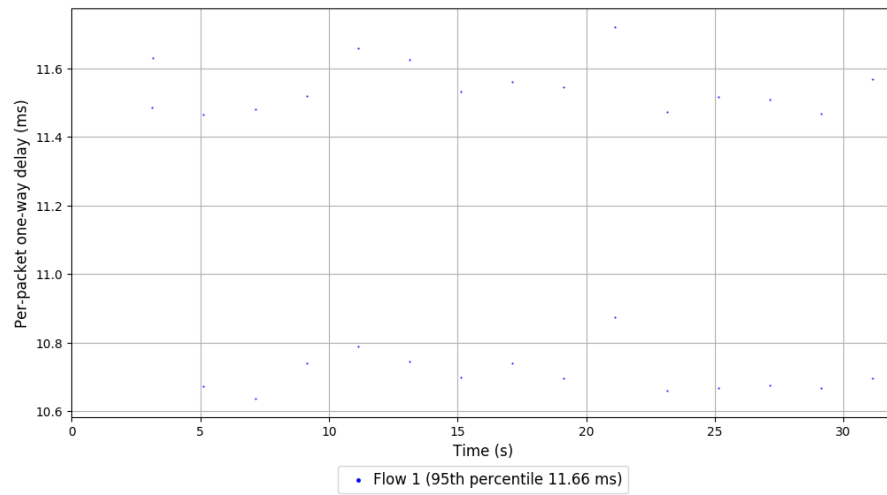
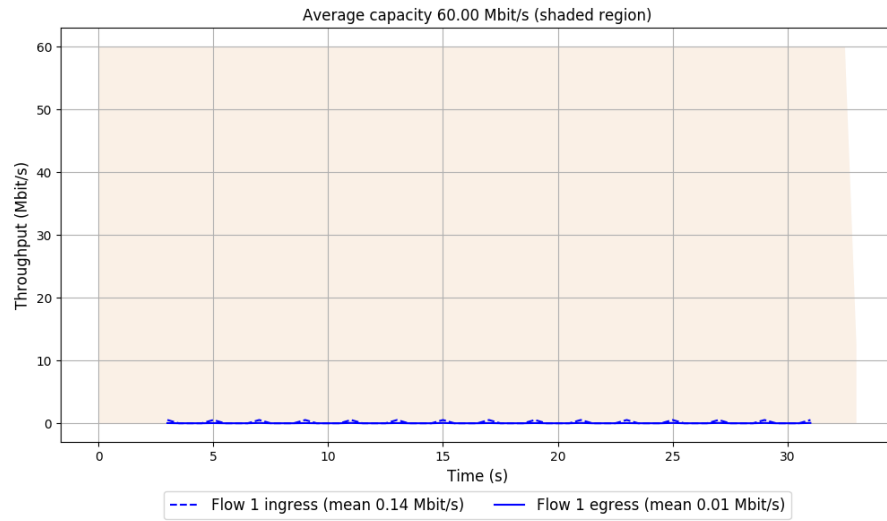
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 11.659 ms

Loss rate: 92.74%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-27 10:35:10

End at: 2018-02-27 10:35:40

Below is generated by plot.py at 2018-02-27 10:44:38

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 0.01 Mbit/s (0.0% utilization)

95th percentile per-packet one-way delay: 11.884 ms

Loss rate: 95.36%

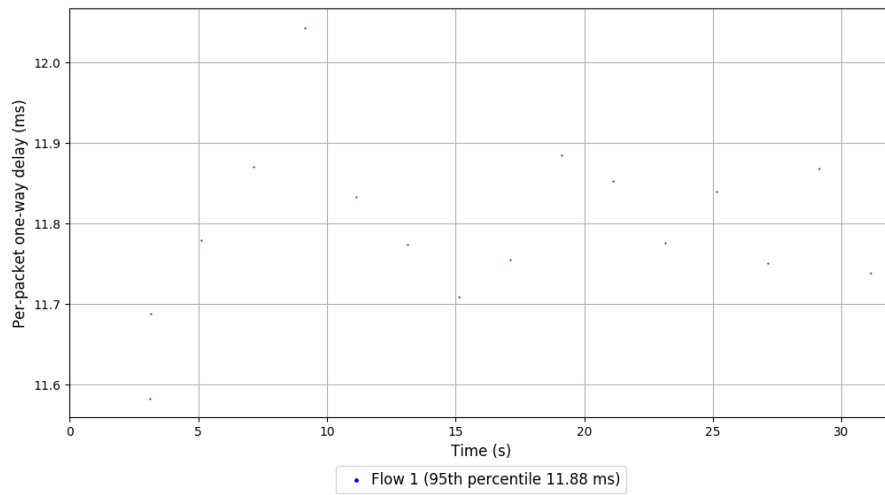
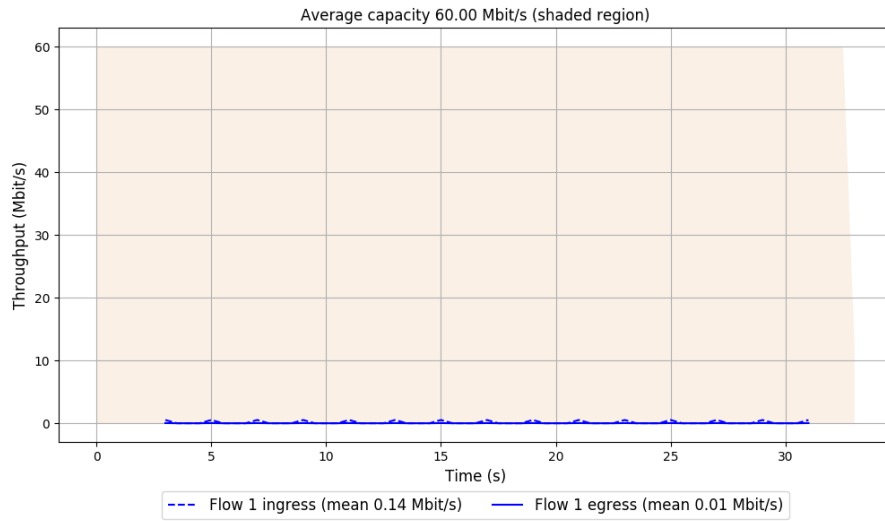
-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 11.884 ms

Loss rate: 95.36%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-02-27 08:56:48

End at: 2018-02-27 08:57:18

Below is generated by plot.py at 2018-02-27 10:44:39

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.85 Mbit/s (3.1% utilization)

95th percentile per-packet one-way delay: 11.905 ms

Loss rate: 82.85%

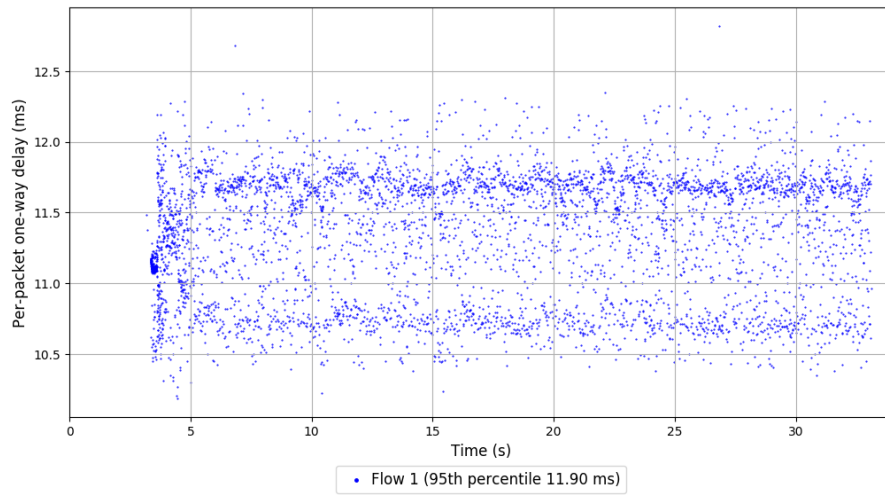
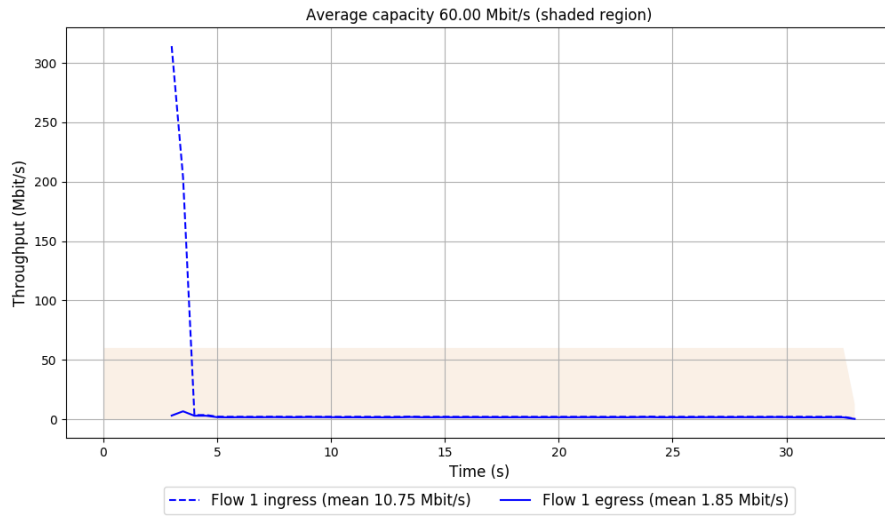
-- Flow 1:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 11.905 ms

Loss rate: 82.85%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-27 09:07:12

End at: 2018-02-27 09:07:42

Below is generated by plot.py at 2018-02-27 10:44:43

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.81 Mbit/s (3.0% utilization)

95th percentile per-packet one-way delay: 11.929 ms

Loss rate: 78.63%

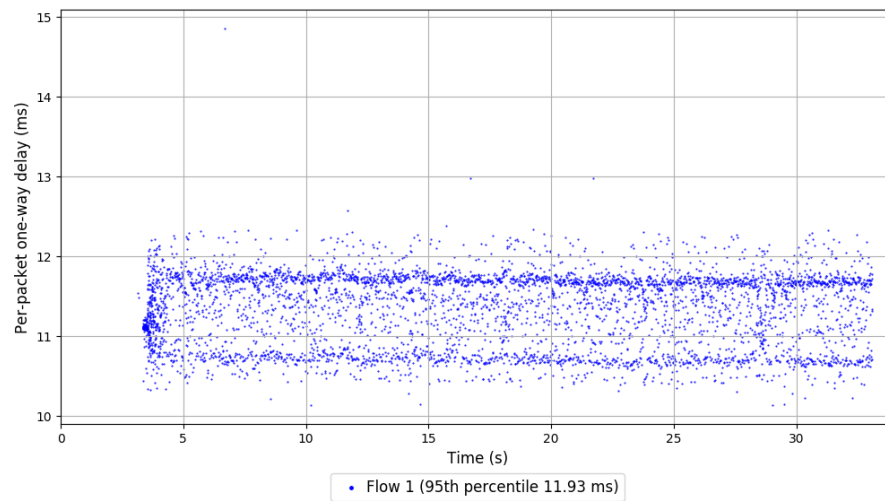
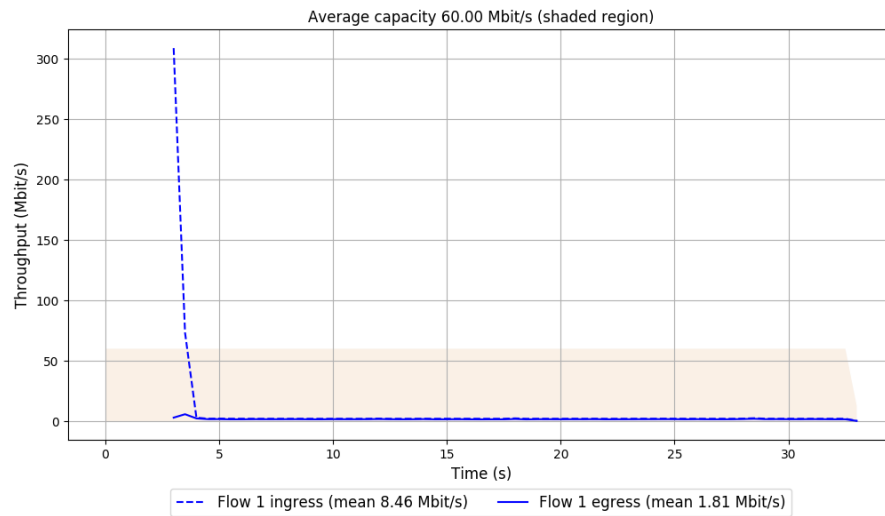
-- Flow 1:

Average throughput: 1.81 Mbit/s

95th percentile per-packet one-way delay: 11.929 ms

Loss rate: 78.63%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-27 09:17:36

End at: 2018-02-27 09:18:06

Below is generated by plot.py at 2018-02-27 10:44:47

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.95 Mbit/s (3.2% utilization)

95th percentile per-packet one-way delay: 11.918 ms

Loss rate: 92.24%

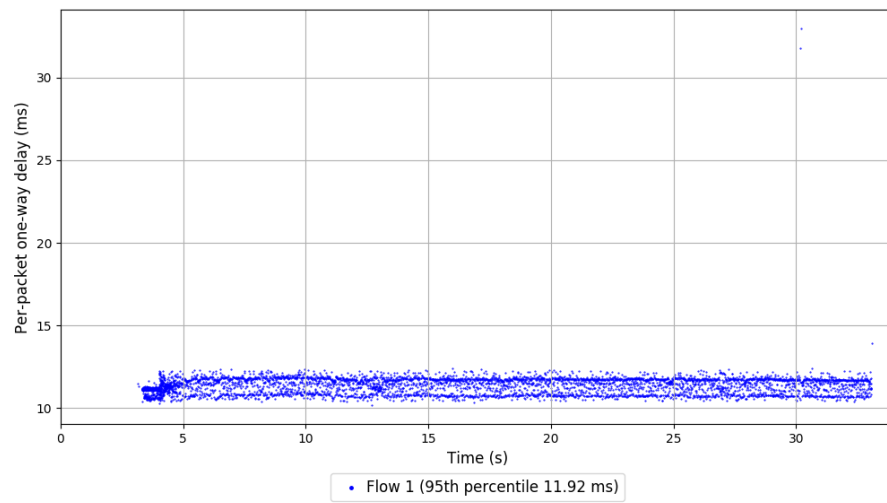
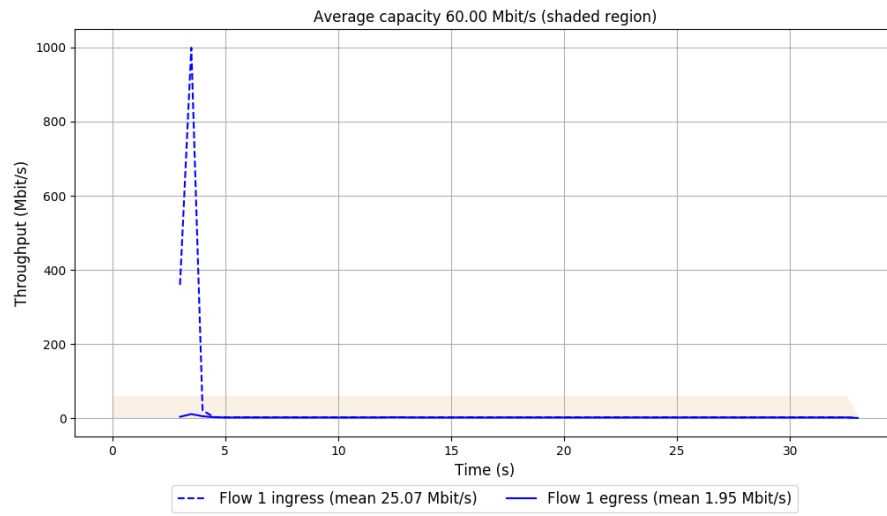
-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 11.918 ms

Loss rate: 92.24%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-27 09:28:01

End at: 2018-02-27 09:28:31

Below is generated by plot.py at 2018-02-27 10:44:49

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.81 Mbit/s (3.0% utilization)

95th percentile per-packet one-way delay: 11.912 ms

Loss rate: 66.51%

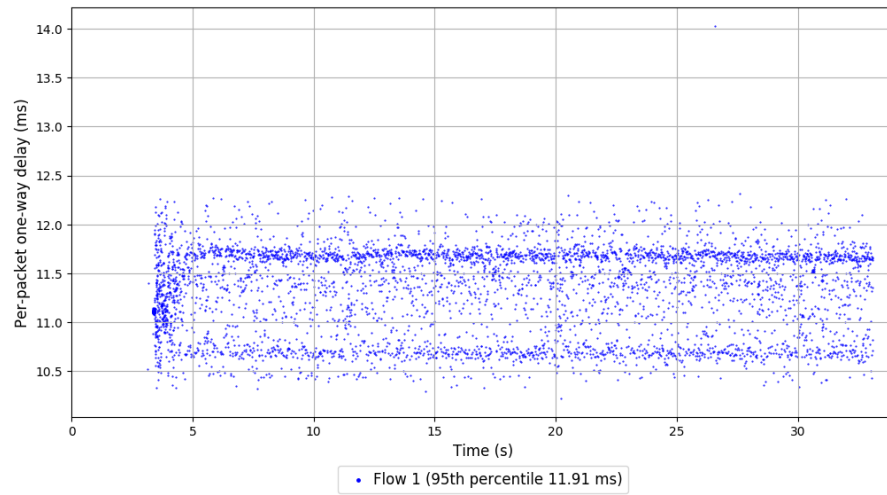
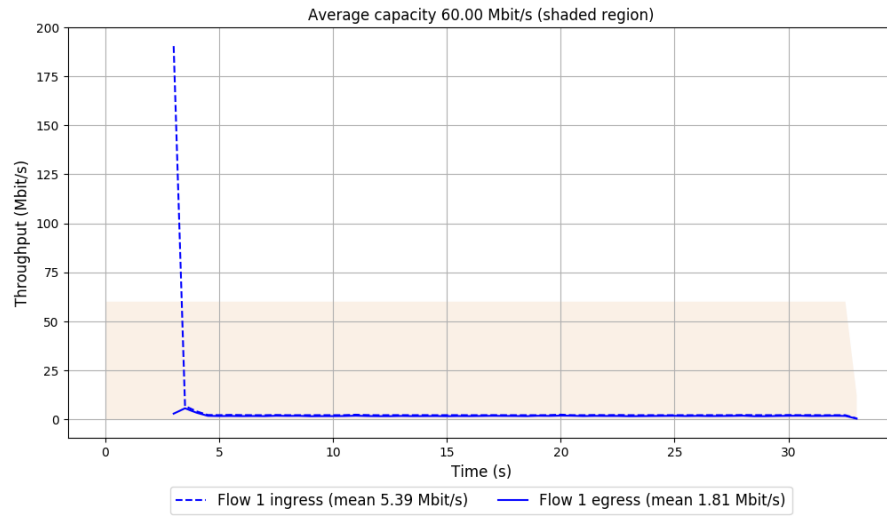
-- Flow 1:

Average throughput: 1.81 Mbit/s

95th percentile per-packet one-way delay: 11.912 ms

Loss rate: 66.51%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-27 09:38:24

End at: 2018-02-27 09:38:54

Below is generated by plot.py at 2018-02-27 10:44:51

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.82 Mbit/s (3.0% utilization)

95th percentile per-packet one-way delay: 11.915 ms

Loss rate: 67.18%

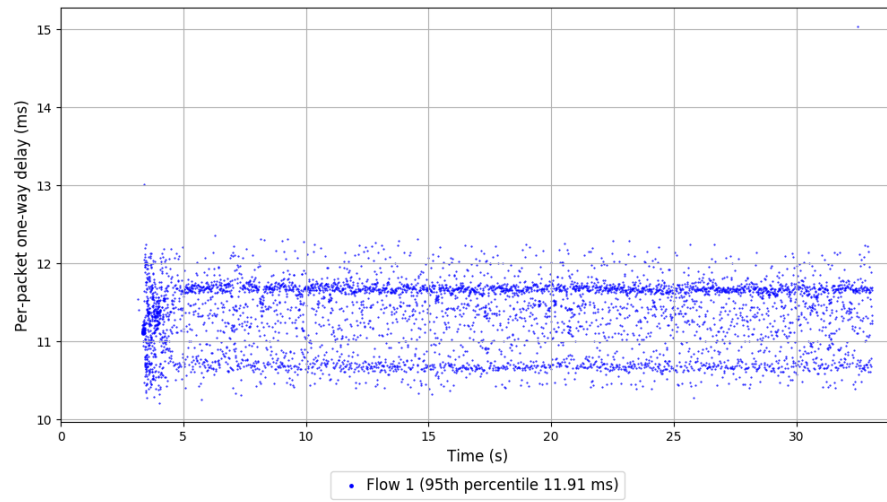
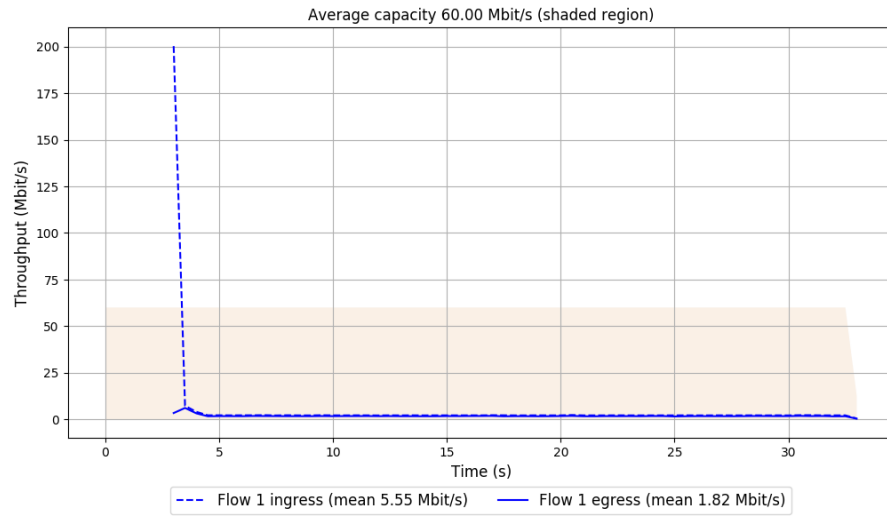
-- Flow 1:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 11.915 ms

Loss rate: 67.18%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-27 09:48:51

End at: 2018-02-27 09:49:21

Below is generated by plot.py at 2018-02-27 10:44:55

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.83 Mbit/s (3.1% utilization)

95th percentile per-packet one-way delay: 11.888 ms

Loss rate: 84.42%

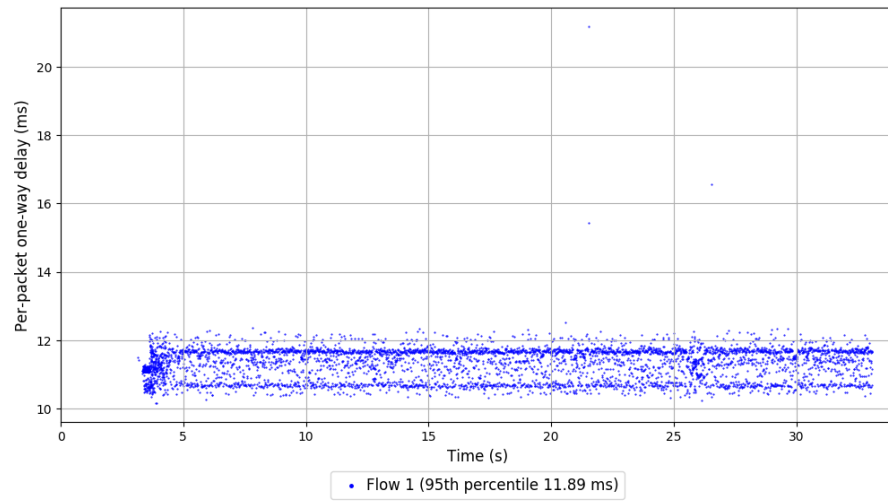
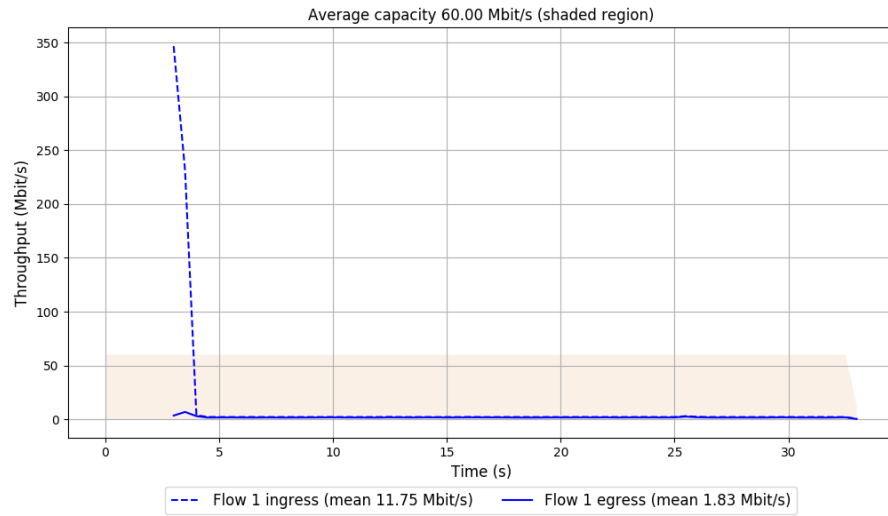
-- Flow 1:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 11.888 ms

Loss rate: 84.42%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-27 09:59:16

End at: 2018-02-27 09:59:46

Below is generated by plot.py at 2018-02-27 10:44:55

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.79 Mbit/s (3.0% utilization)

95th percentile per-packet one-way delay: 11.887 ms

Loss rate: 64.43%

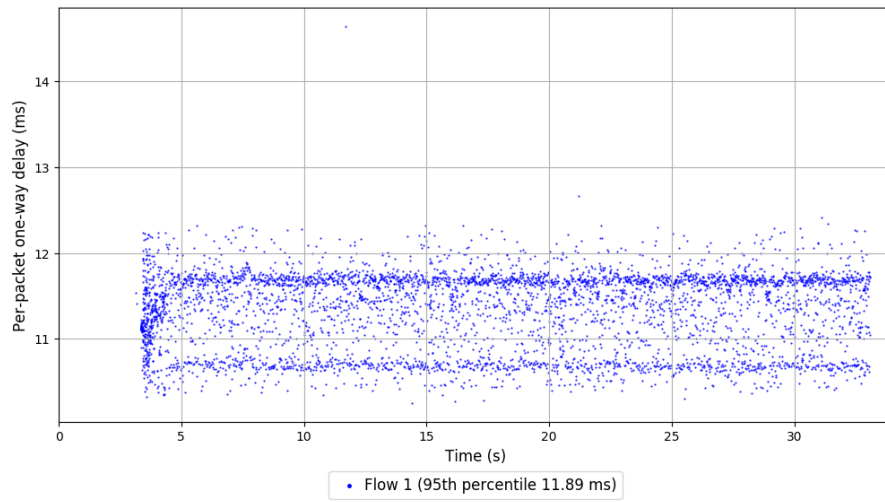
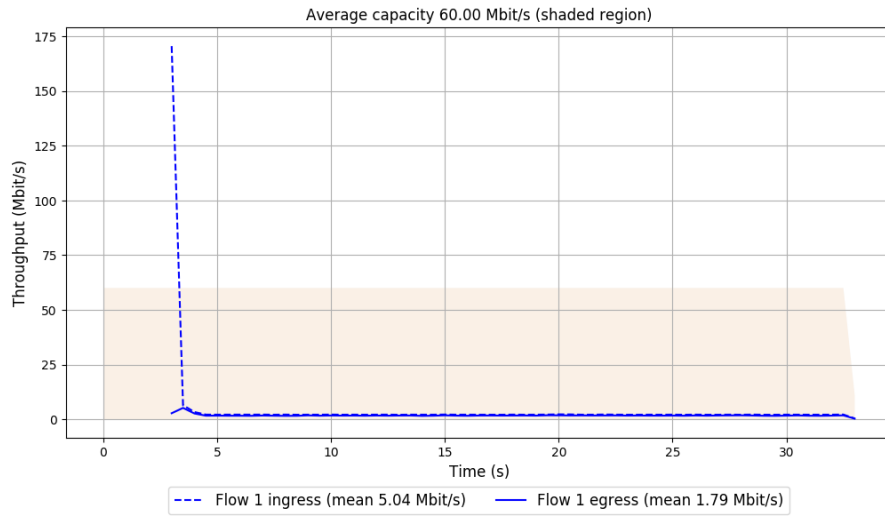
-- Flow 1:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 11.887 ms

Loss rate: 64.43%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-27 10:09:39

End at: 2018-02-27 10:10:09

Below is generated by plot.py at 2018-02-27 10:45:00

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.79 Mbit/s (3.0% utilization)

95th percentile per-packet one-way delay: 11.887 ms

Loss rate: 76.86%

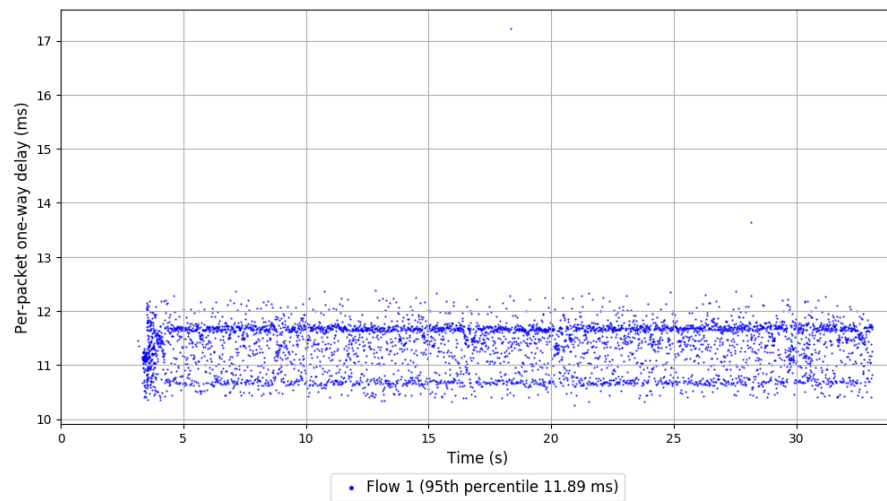
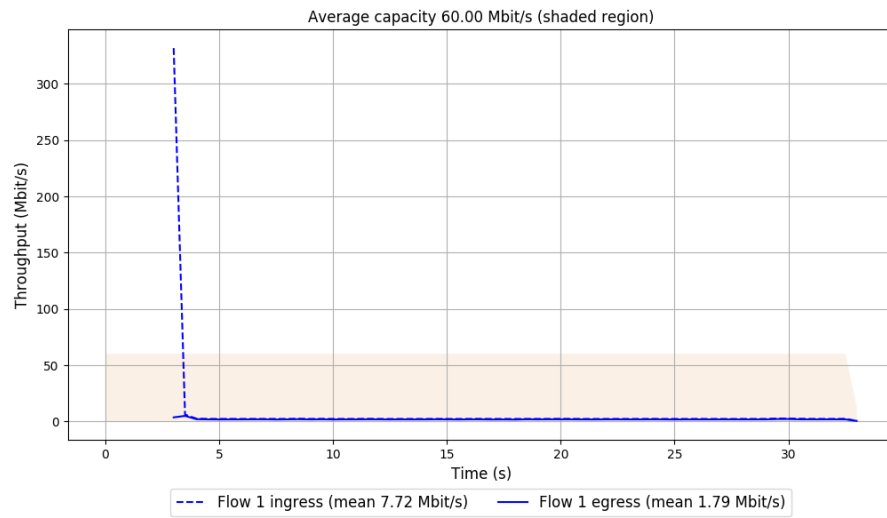
-- Flow 1:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 11.887 ms

Loss rate: 76.86%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-27 10:20:07

End at: 2018-02-27 10:20:37

Below is generated by plot.py at 2018-02-27 10:45:03

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.95 Mbit/s (3.2% utilization)

95th percentile per-packet one-way delay: 11.937 ms

Loss rate: 83.83%

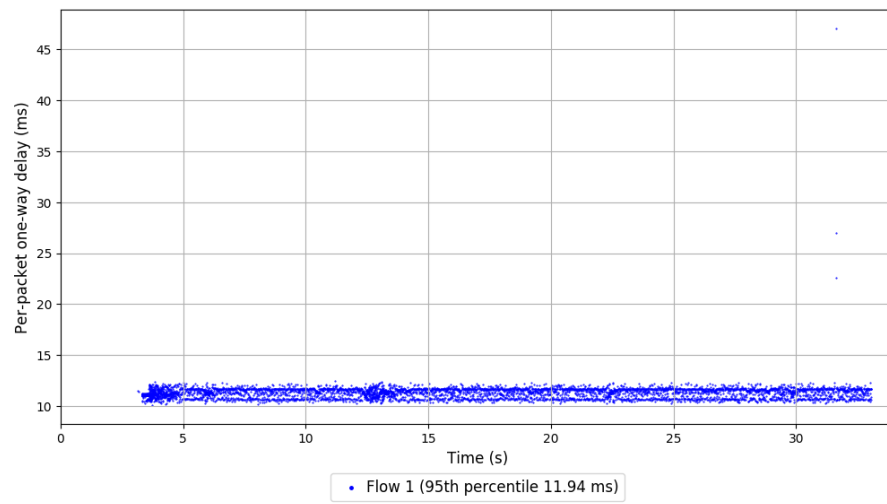
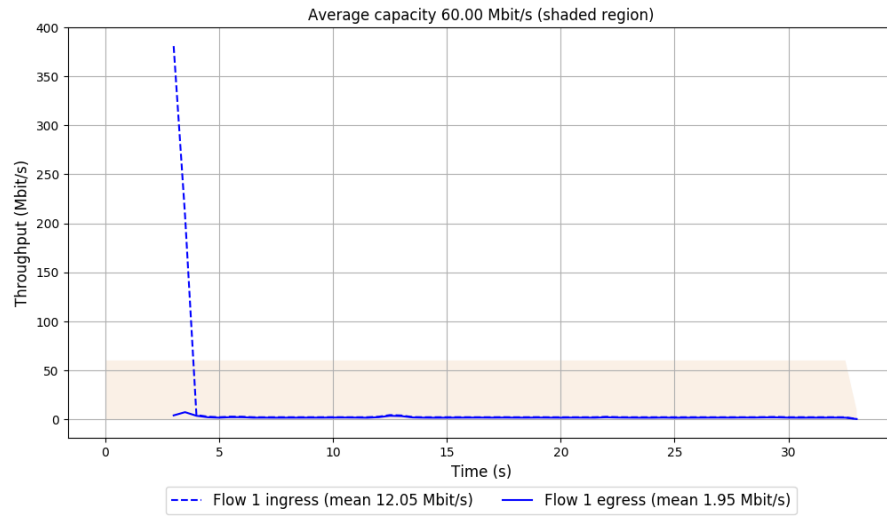
-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 11.937 ms

Loss rate: 83.83%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-27 10:30:31

End at: 2018-02-27 10:31:01

Below is generated by plot.py at 2018-02-27 10:45:06

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.77 Mbit/s (3.0% utilization)

95th percentile per-packet one-way delay: 11.960 ms

Loss rate: 71.42%

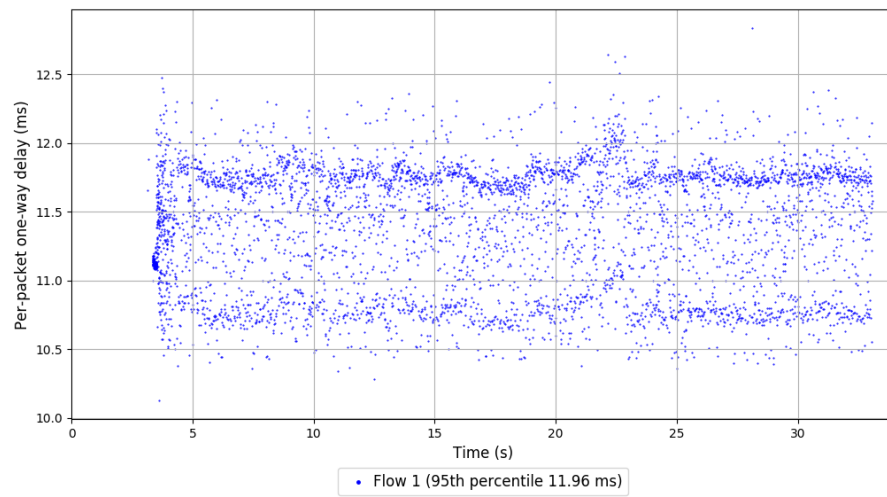
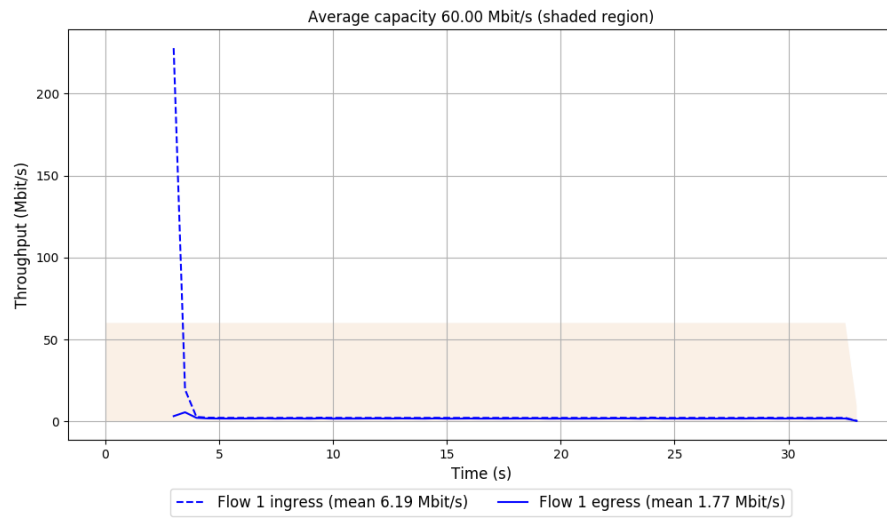
-- Flow 1:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 11.960 ms

Loss rate: 71.42%

Run 10: Report of FillP — Data Link



Run 1: Statistics of Indigo-1-32

Start at: 2018-02-27 09:02:03

End at: 2018-02-27 09:02:33

Below is generated by plot.py at 2018-02-27 10:45:14

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.44 Mbit/s (2.4% utilization)

95th percentile per-packet one-way delay: 12.111 ms

Loss rate: 94.86%

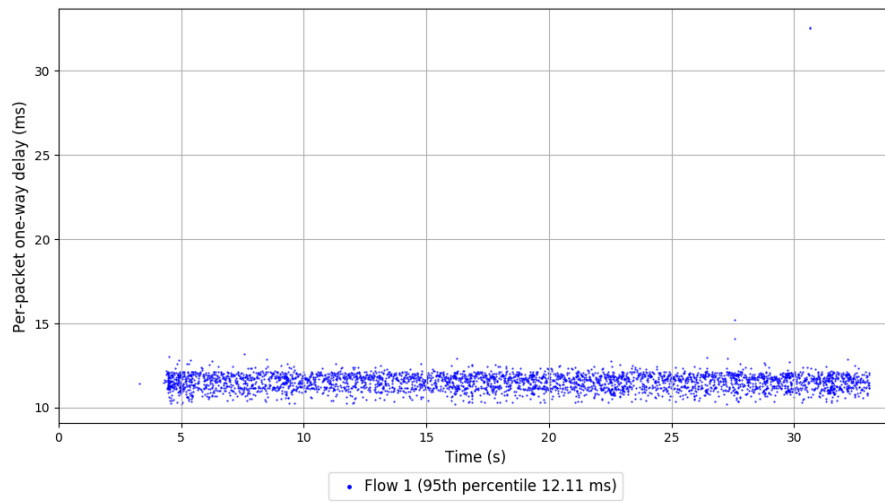
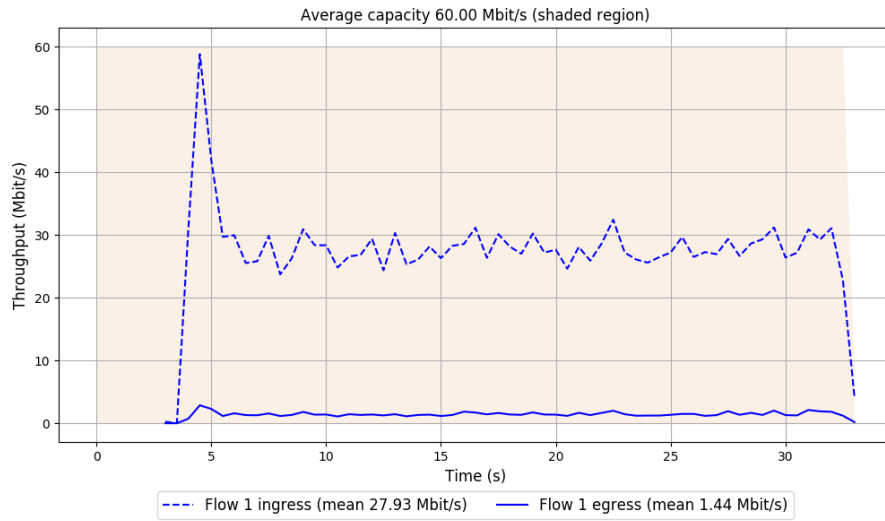
-- Flow 1:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 12.111 ms

Loss rate: 94.86%

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-02-27 09:12:26

End at: 2018-02-27 09:12:56

Below is generated by plot.py at 2018-02-27 10:45:14

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.50 Mbit/s (2.5% utilization)

95th percentile per-packet one-way delay: 12.140 ms

Loss rate: 93.19%

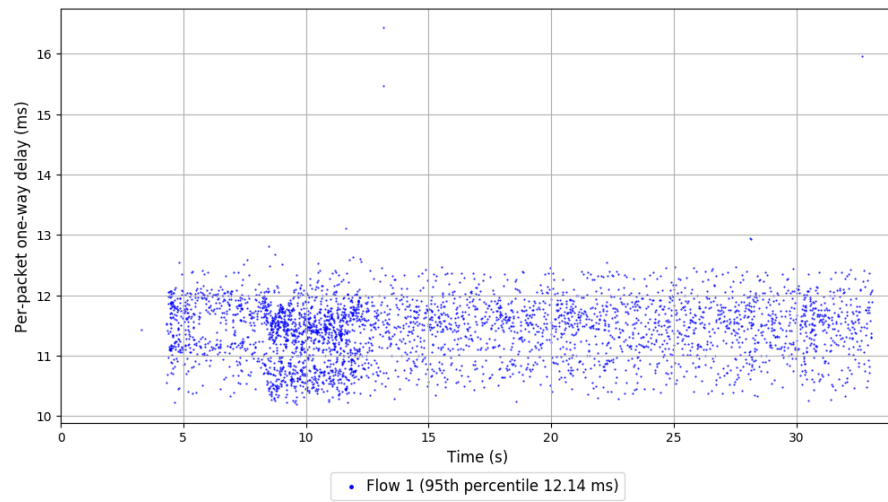
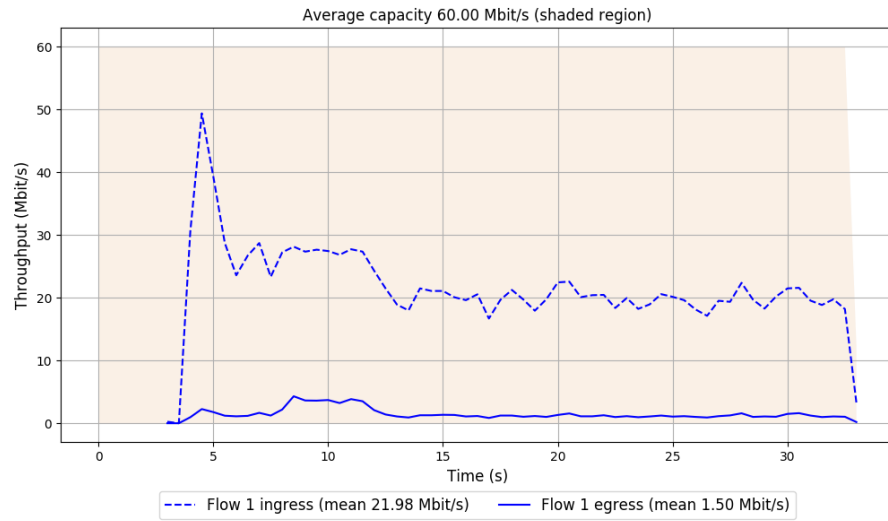
-- Flow 1:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 12.140 ms

Loss rate: 93.19%

Run 2: Report of Indigo-1-32 — Data Link



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-27 09:22:51

End at: 2018-02-27 09:23:21

Below is generated by plot.py at 2018-02-27 10:45:16

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.25 Mbit/s (2.1% utilization)

95th percentile per-packet one-way delay: 12.194 ms

Loss rate: 94.84%

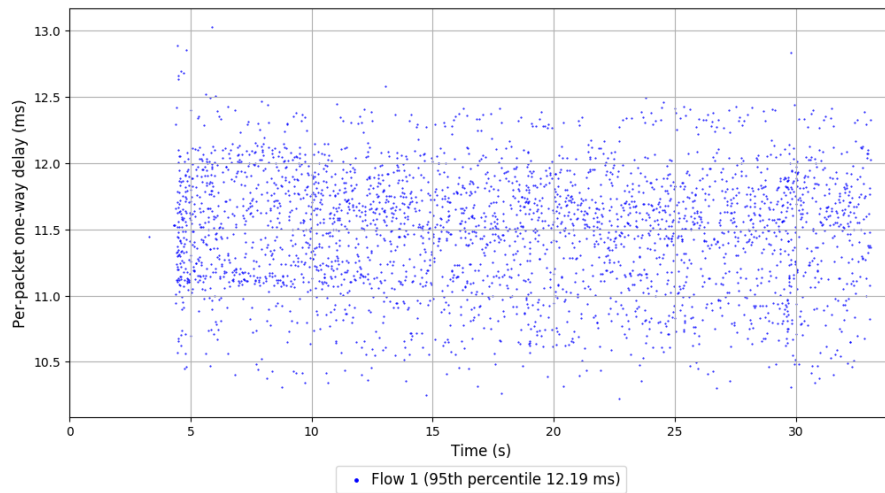
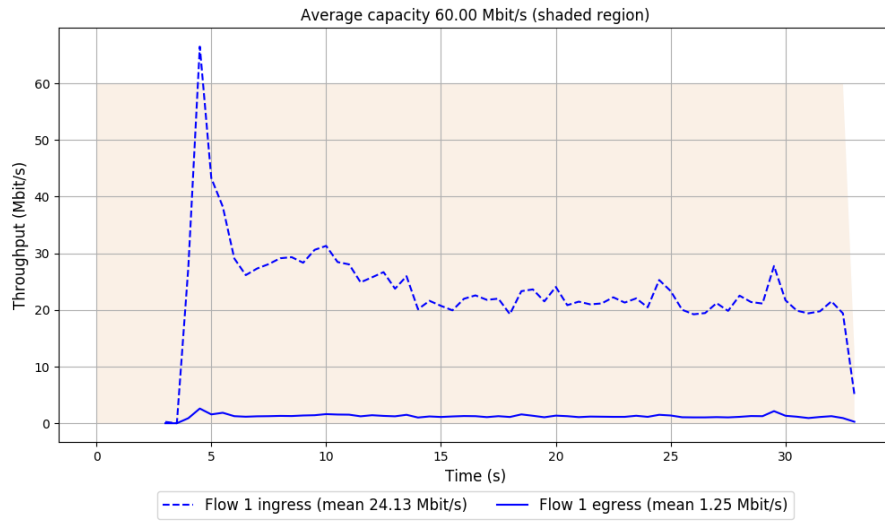
-- Flow 1:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 12.194 ms

Loss rate: 94.84%

Run 3: Report of Indigo-1-32 — Data Link



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-27 09:33:14

End at: 2018-02-27 09:33:44

Below is generated by plot.py at 2018-02-27 10:45:21

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.51 Mbit/s (2.5% utilization)

95th percentile per-packet one-way delay: 12.107 ms

Loss rate: 94.06%

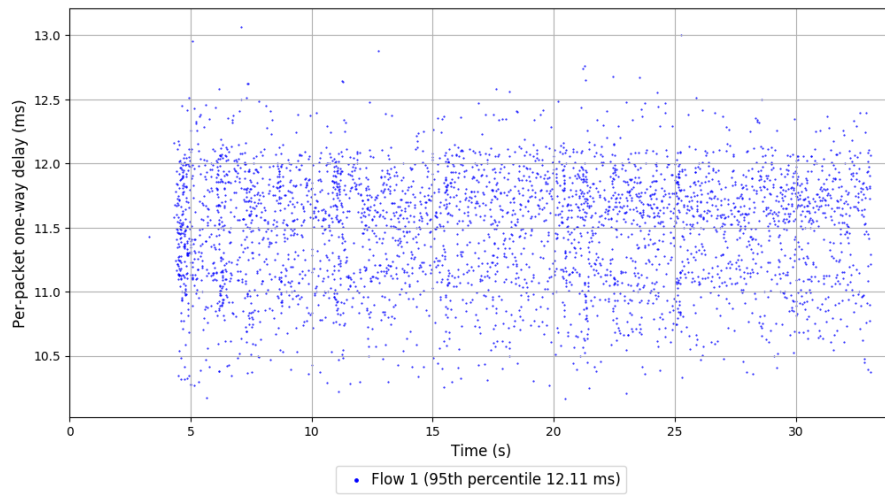
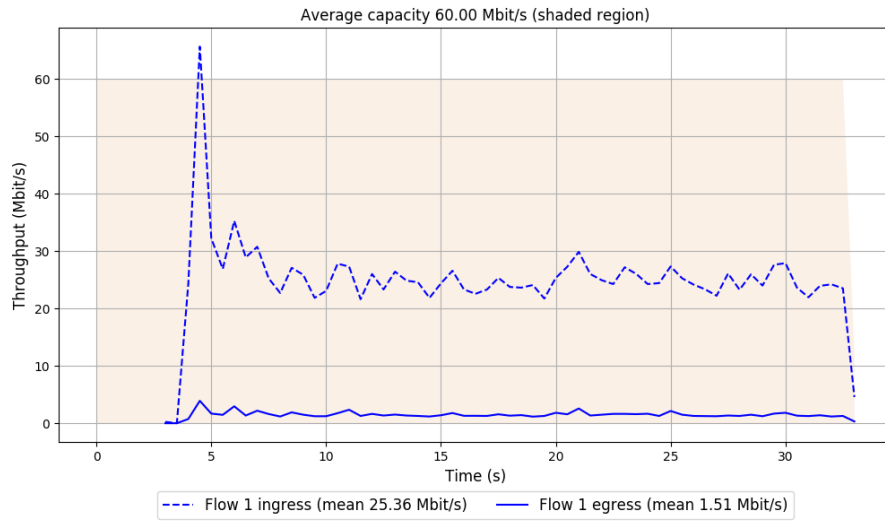
-- Flow 1:

Average throughput: 1.51 Mbit/s

95th percentile per-packet one-way delay: 12.107 ms

Loss rate: 94.06%

Run 4: Report of Indigo-1-32 — Data Link



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-27 09:43:40

End at: 2018-02-27 09:44:10

Below is generated by plot.py at 2018-02-27 10:45:21

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.26 Mbit/s (2.1% utilization)

95th percentile per-packet one-way delay: 12.102 ms

Loss rate: 94.79%

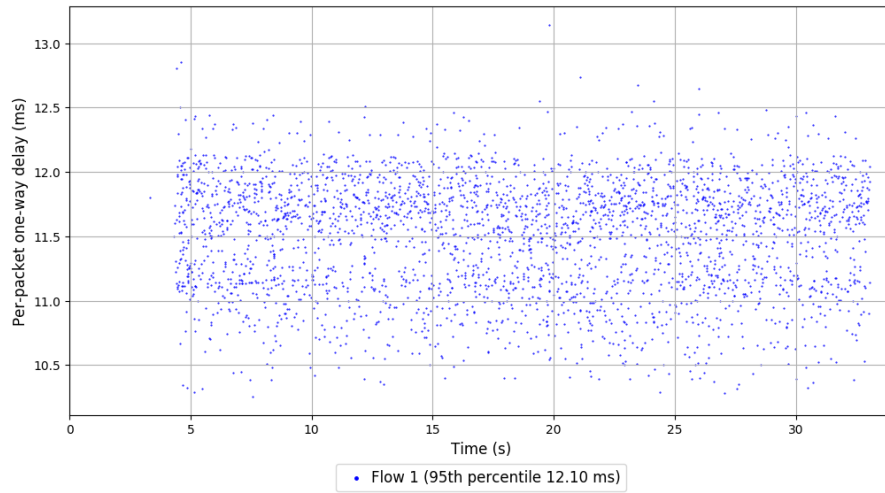
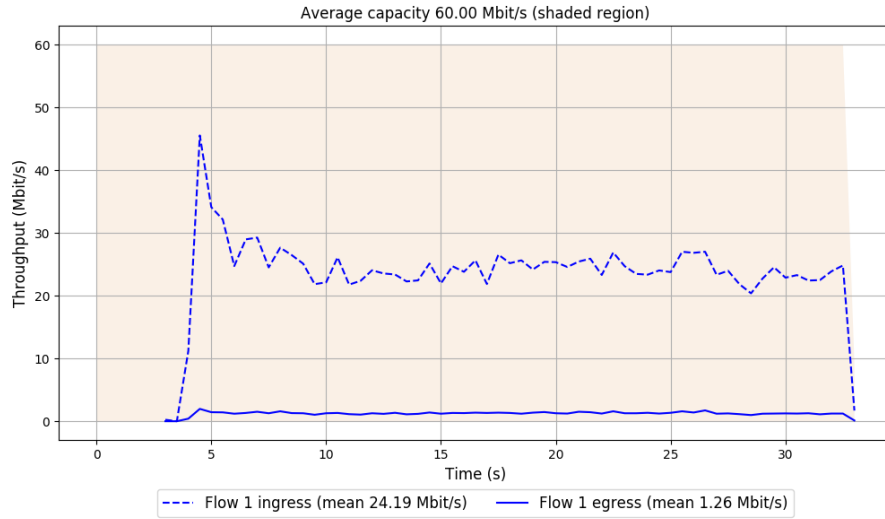
-- Flow 1:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 12.102 ms

Loss rate: 94.79%

Run 5: Report of Indigo-1-32 — Data Link



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-27 09:54:06

End at: 2018-02-27 09:54:36

Below is generated by plot.py at 2018-02-27 10:45:27

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.32 Mbit/s (2.2% utilization)

95th percentile per-packet one-way delay: 12.094 ms

Loss rate: 94.77%

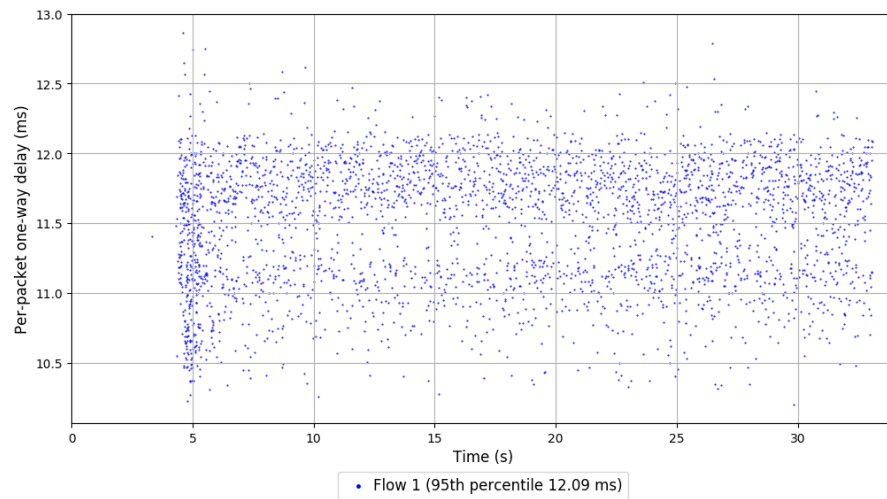
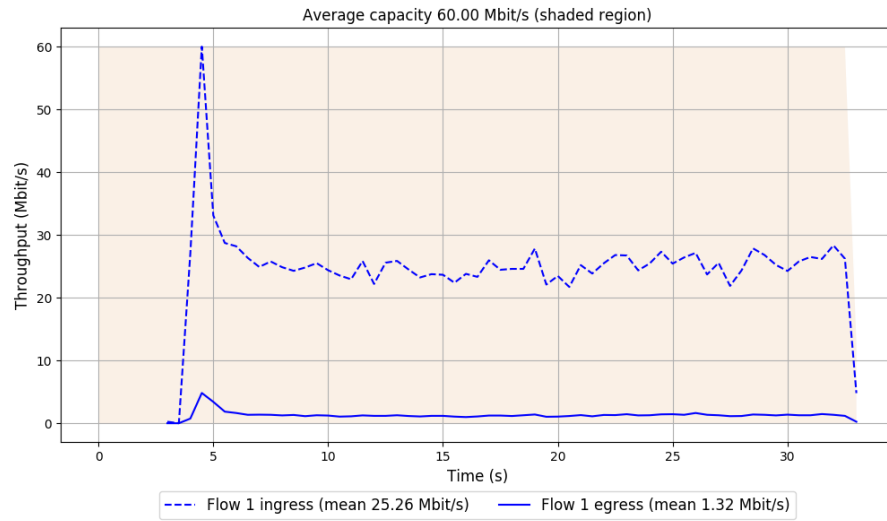
-- Flow 1:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 12.094 ms

Loss rate: 94.77%

Run 6: Report of Indigo-1-32 — Data Link



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-27 10:04:29

End at: 2018-02-27 10:04:59

Below is generated by plot.py at 2018-02-27 10:45:28

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.16 Mbit/s (1.9% utilization)

95th percentile per-packet one-way delay: 12.148 ms

Loss rate: 94.75%

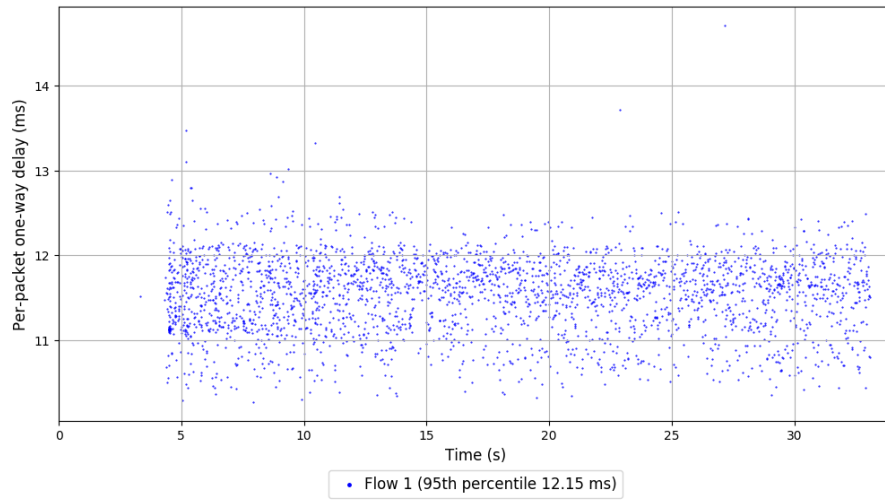
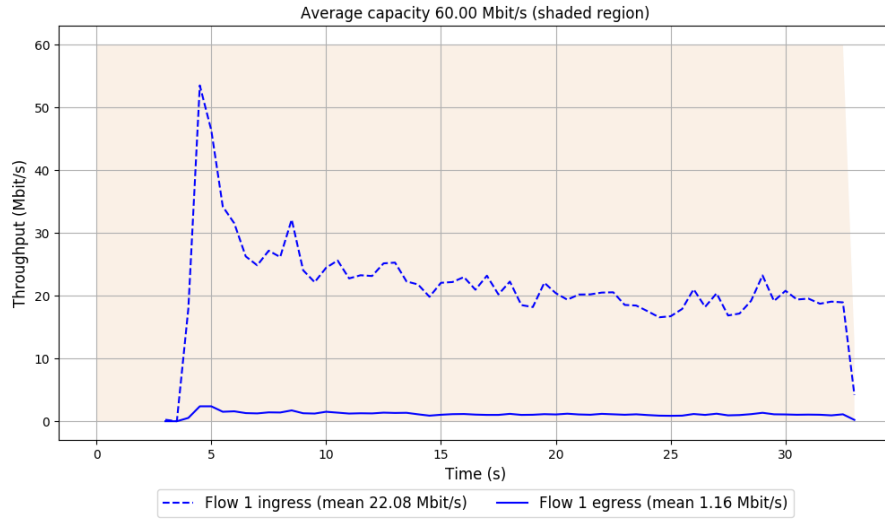
-- Flow 1:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 12.148 ms

Loss rate: 94.75%

Run 7: Report of Indigo-1-32 — Data Link



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-27 10:14:57

End at: 2018-02-27 10:15:27

Below is generated by plot.py at 2018-02-27 10:45:33

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.52 Mbit/s (2.5% utilization)

95th percentile per-packet one-way delay: 12.129 ms

Loss rate: 94.70%

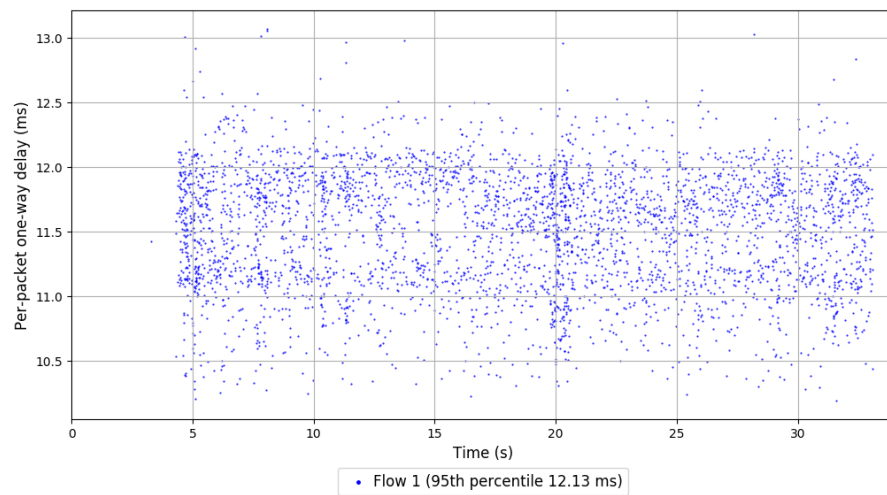
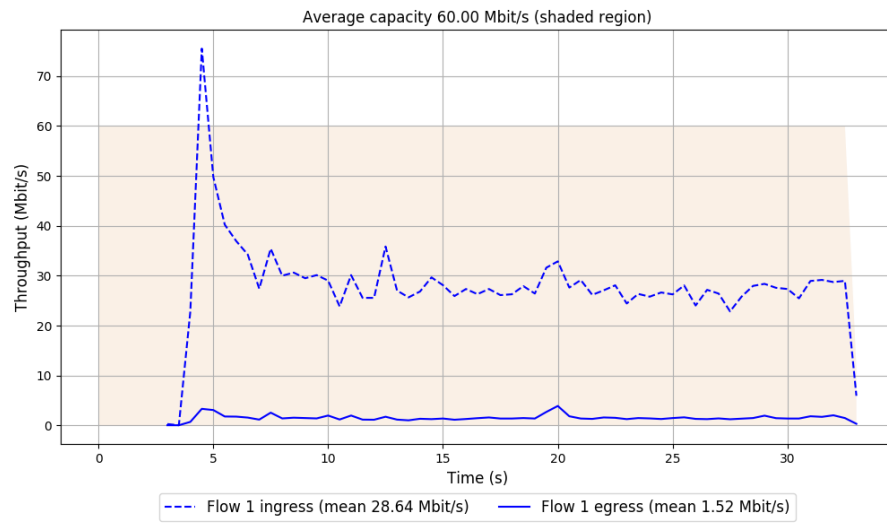
-- Flow 1:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 12.129 ms

Loss rate: 94.70%

Run 8: Report of Indigo-1-32 — Data Link



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-27 10:25:21

End at: 2018-02-27 10:25:51

Below is generated by plot.py at 2018-02-27 10:45:41

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.29 Mbit/s (2.2% utilization)

95th percentile per-packet one-way delay: 12.121 ms

Loss rate: 95.09%

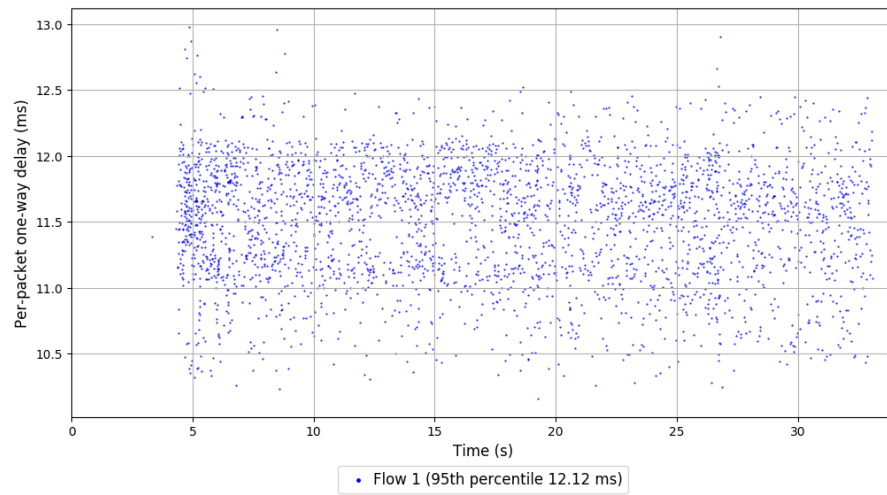
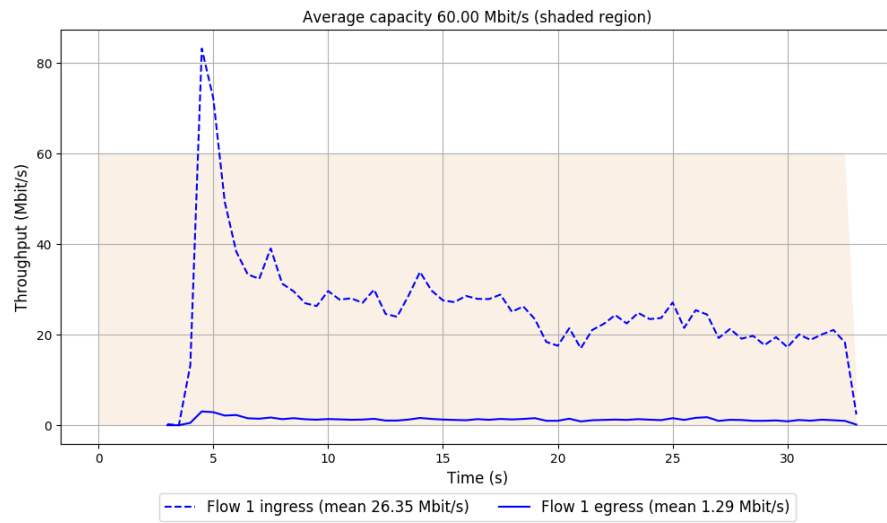
-- Flow 1:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 12.121 ms

Loss rate: 95.09%

Run 9: Report of Indigo-1-32 — Data Link



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-27 10:35:44

End at: 2018-02-27 10:36:14

Below is generated by plot.py at 2018-02-27 10:45:41

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 1.41 Mbit/s (2.3% utilization)

95th percentile per-packet one-way delay: 12.108 ms

Loss rate: 94.32%

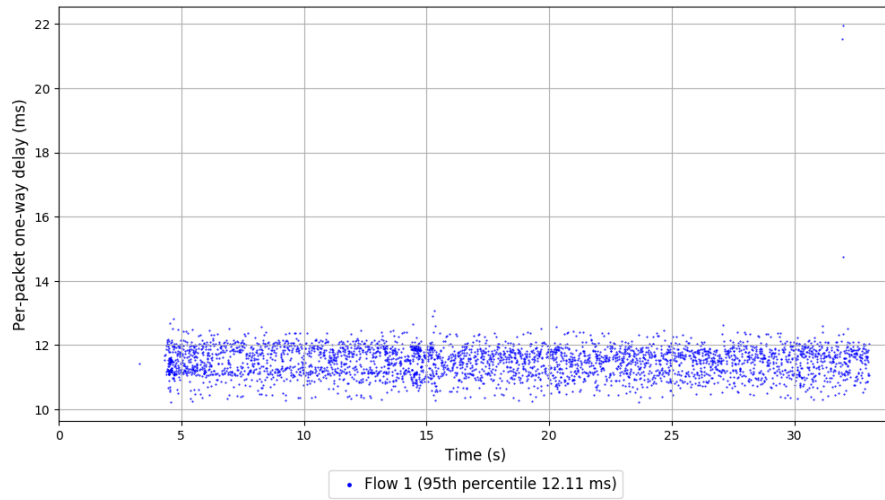
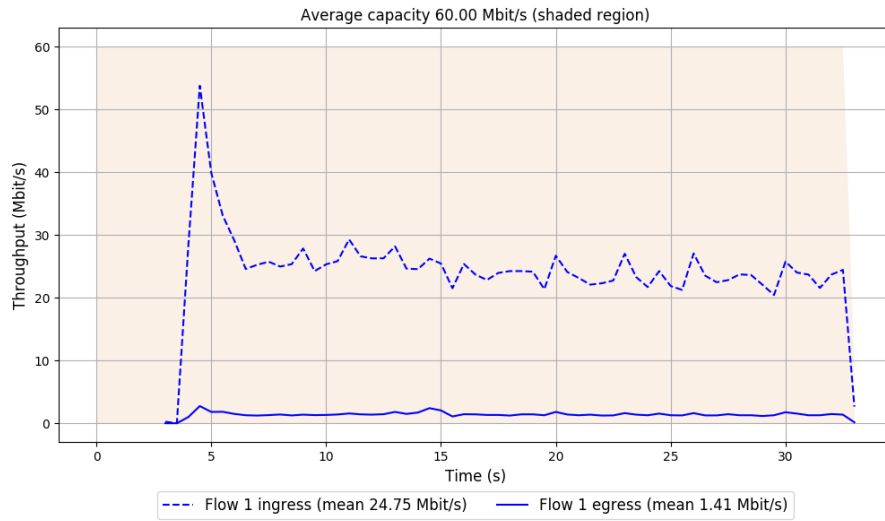
-- Flow 1:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 12.108 ms

Loss rate: 94.32%

Run 10: Report of Indigo-1-32 — Data Link



Run 1: Statistics of Vivace-latency

Start at: 2018-02-27 08:59:06

End at: 2018-02-27 08:59:36

Below is generated by plot.py at 2018-02-27 10:45:42

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 6.52 Mbit/s (10.9% utilization)

95th percentile per-packet one-way delay: 11.940 ms

Loss rate: 0.17%

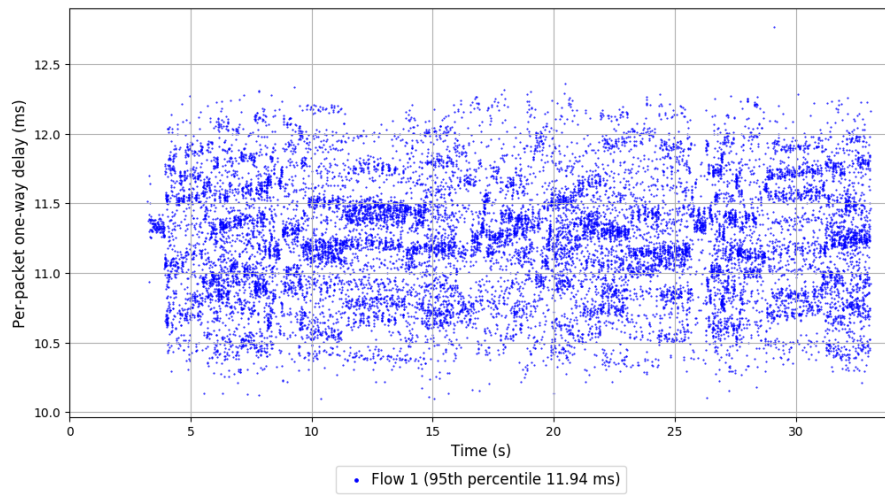
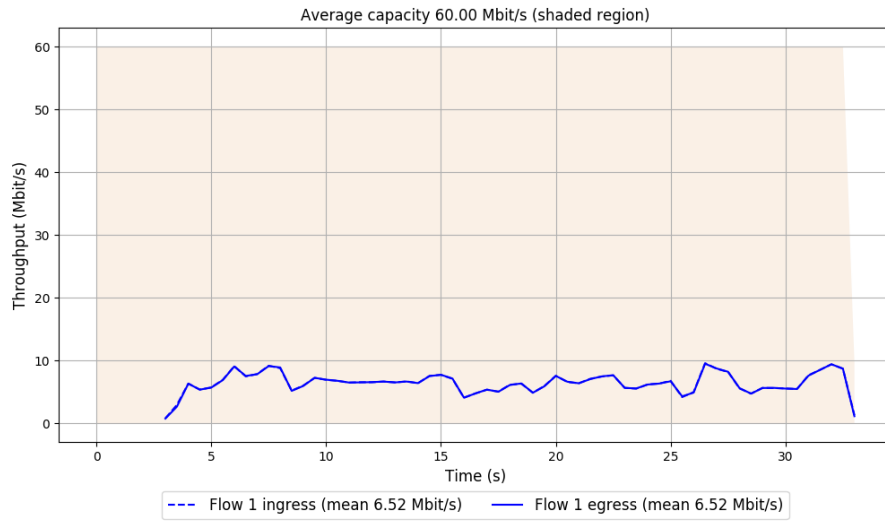
-- Flow 1:

Average throughput: 6.52 Mbit/s

95th percentile per-packet one-way delay: 11.940 ms

Loss rate: 0.17%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-27 09:09:30

End at: 2018-02-27 09:10:00

Below is generated by plot.py at 2018-02-27 10:45:48

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 8.44 Mbit/s (14.1% utilization)

95th percentile per-packet one-way delay: 11.922 ms

Loss rate: 1.22%

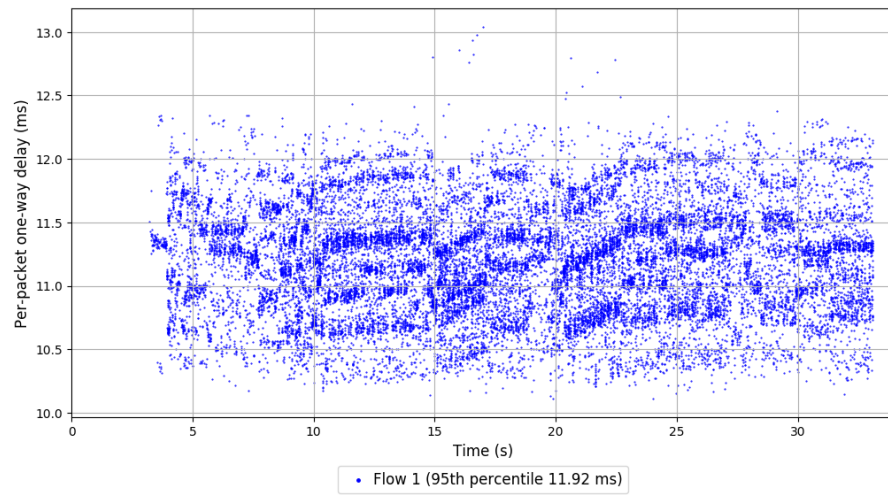
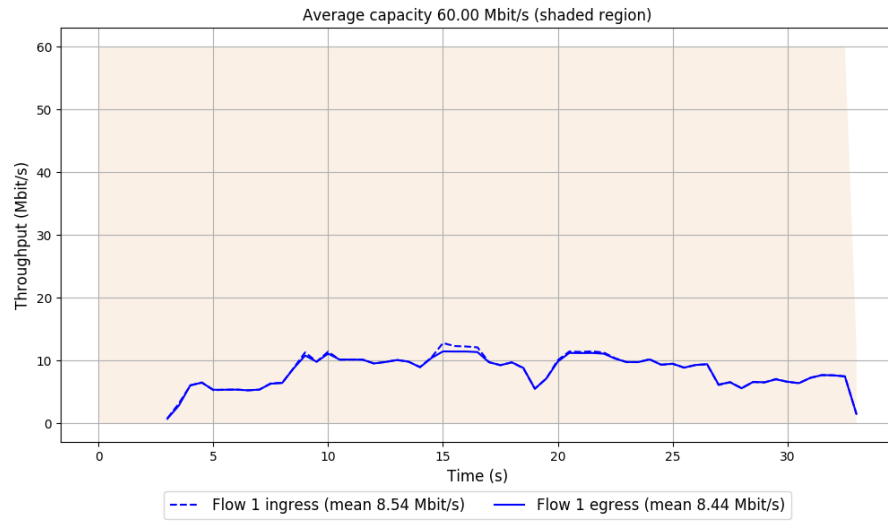
-- Flow 1:

Average throughput: 8.44 Mbit/s

95th percentile per-packet one-way delay: 11.922 ms

Loss rate: 1.22%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-27 09:19:54

End at: 2018-02-27 09:20:24

Below is generated by plot.py at 2018-02-27 10:45:48

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 7.91 Mbit/s (13.2% utilization)

95th percentile per-packet one-way delay: 11.942 ms

Loss rate: 1.33%

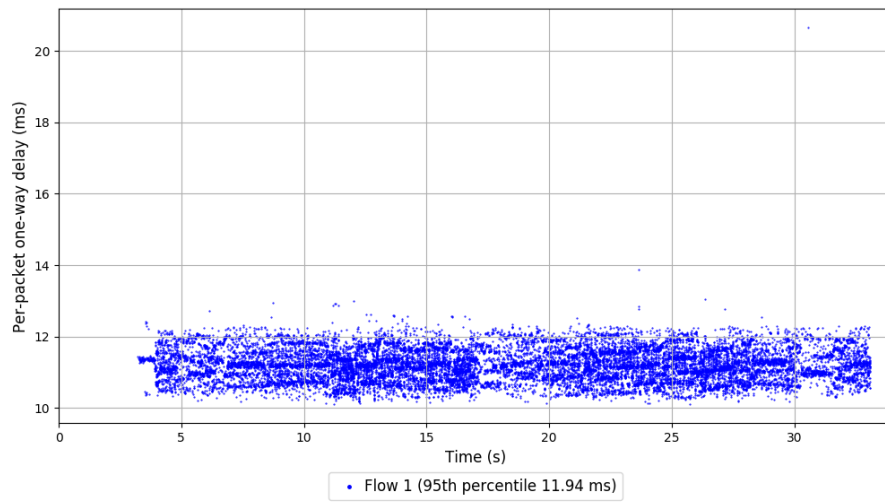
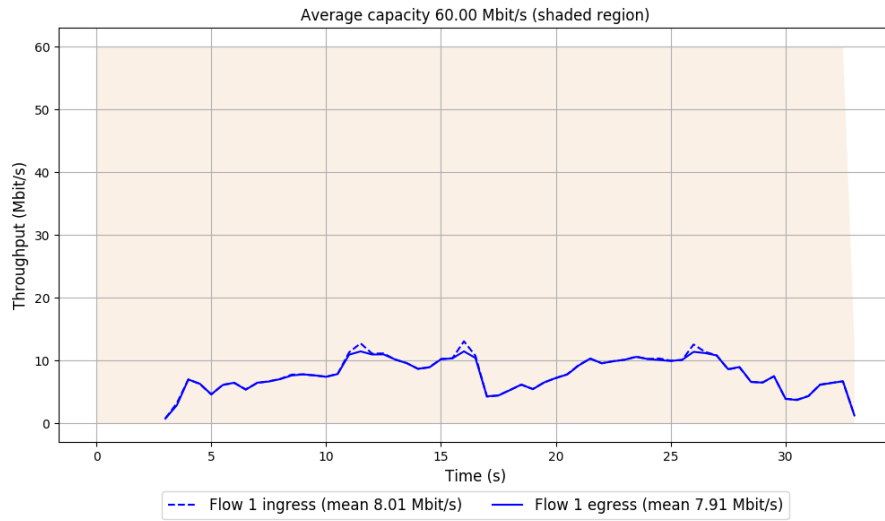
-- Flow 1:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 11.942 ms

Loss rate: 1.33%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-27 09:30:18

End at: 2018-02-27 09:30:48

Below is generated by plot.py at 2018-02-27 10:45:54

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 6.76 Mbit/s (11.3% utilization)

95th percentile per-packet one-way delay: 11.974 ms

Loss rate: 0.73%

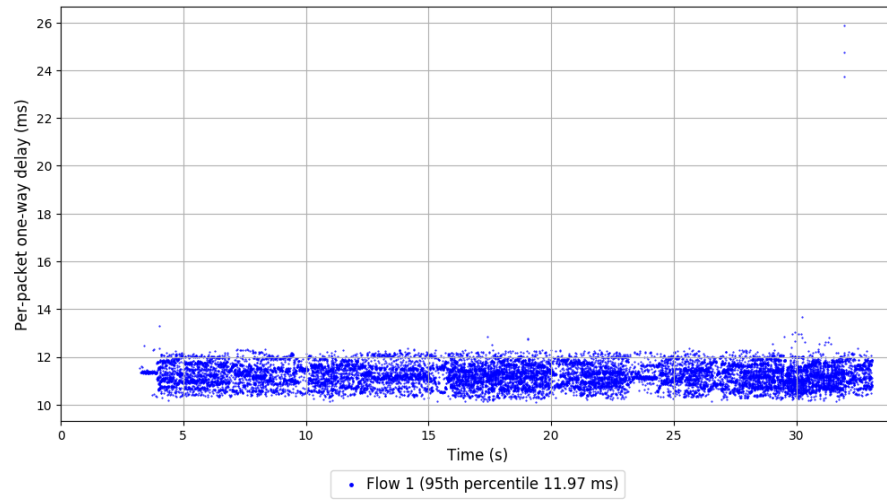
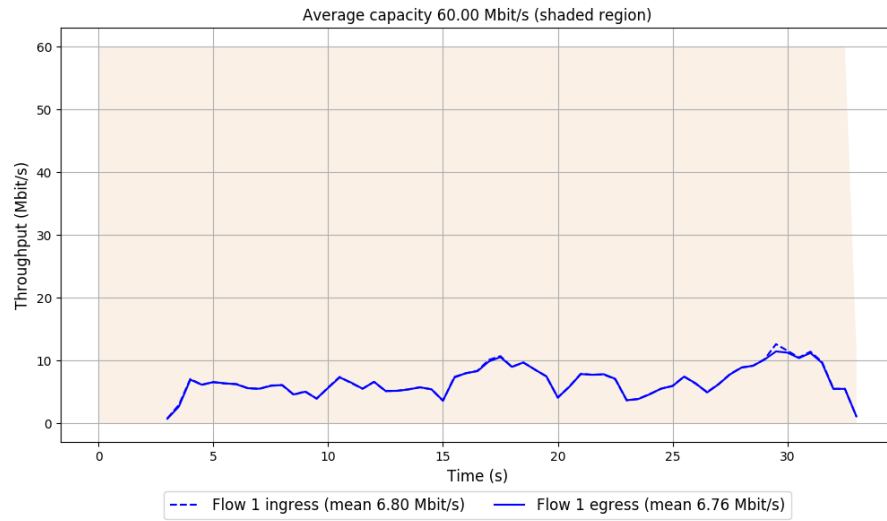
-- Flow 1:

Average throughput: 6.76 Mbit/s

95th percentile per-packet one-way delay: 11.974 ms

Loss rate: 0.73%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-27 09:40:42

End at: 2018-02-27 09:41:12

Below is generated by plot.py at 2018-02-27 10:45:55

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 7.26 Mbit/s (12.1% utilization)

95th percentile per-packet one-way delay: 11.959 ms

Loss rate: 0.25%

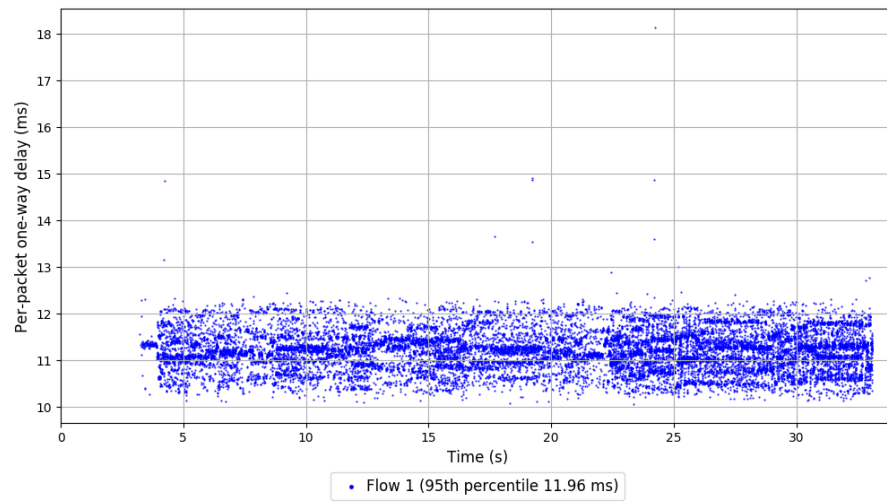
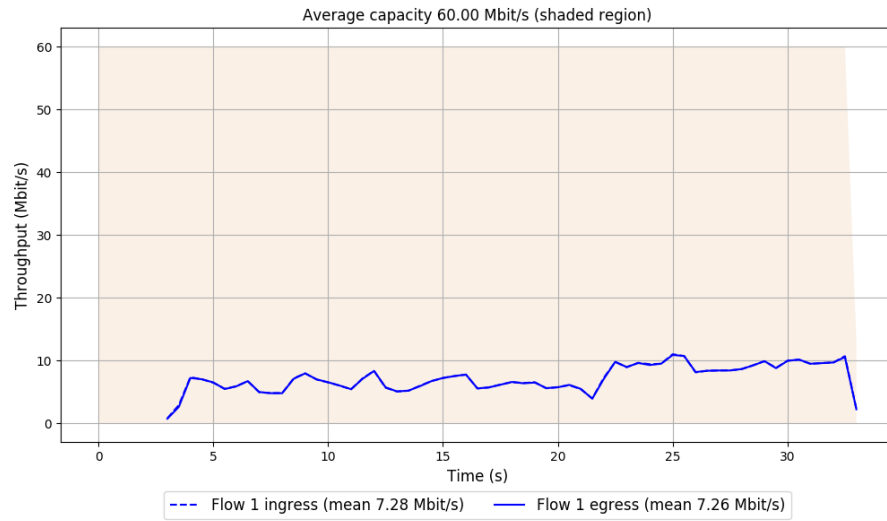
-- Flow 1:

Average throughput: 7.26 Mbit/s

95th percentile per-packet one-way delay: 11.959 ms

Loss rate: 0.25%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-27 09:51:09

End at: 2018-02-27 09:51:39

Below is generated by plot.py at 2018-02-27 10:45:59

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 5.82 Mbit/s (9.7% utilization)

95th percentile per-packet one-way delay: 12.044 ms

Loss rate: 0.70%

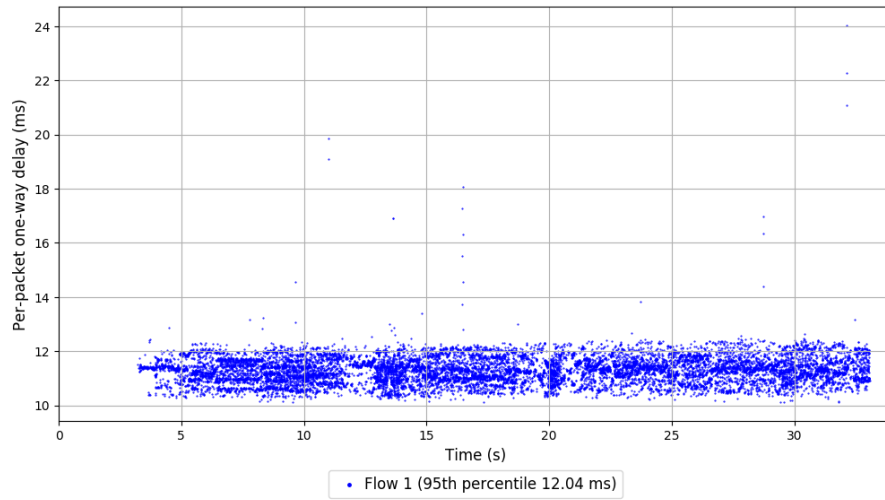
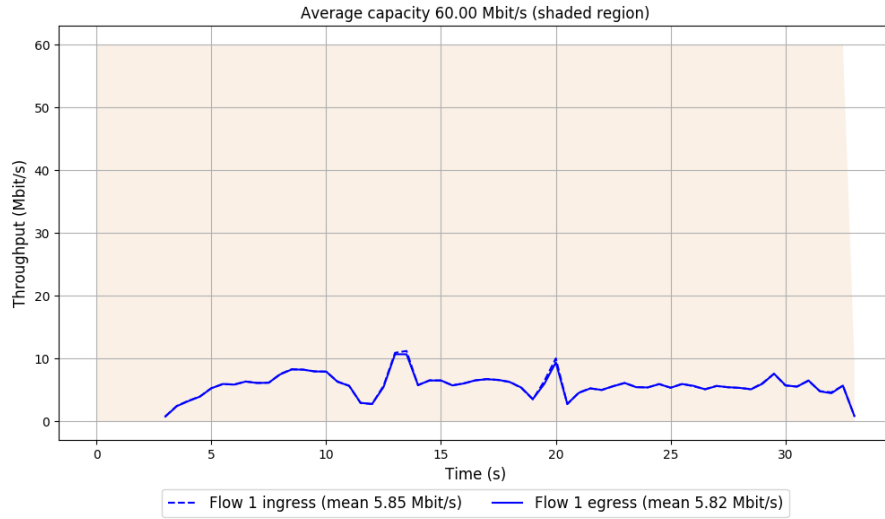
-- Flow 1:

Average throughput: 5.82 Mbit/s

95th percentile per-packet one-way delay: 12.044 ms

Loss rate: 0.70%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-27 10:01:33

End at: 2018-02-27 10:02:03

Below is generated by plot.py at 2018-02-27 10:46:09

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 8.01 Mbit/s (13.3% utilization)

95th percentile per-packet one-way delay: 11.968 ms

Loss rate: 1.49%

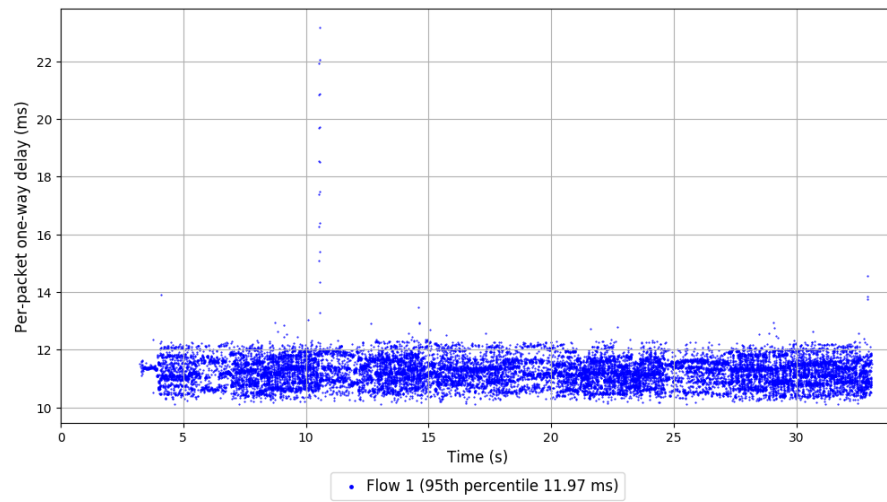
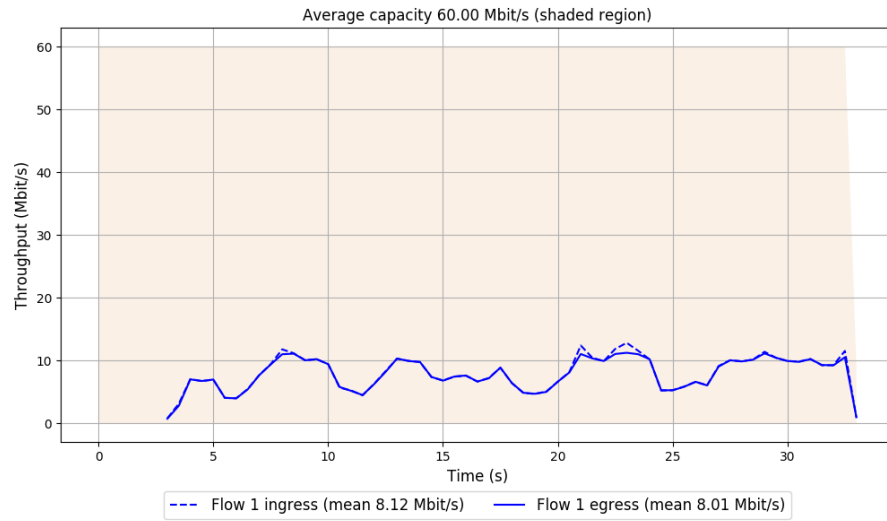
-- Flow 1:

Average throughput: 8.01 Mbit/s

95th percentile per-packet one-way delay: 11.968 ms

Loss rate: 1.49%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-27 10:11:57

End at: 2018-02-27 10:12:27

Below is generated by plot.py at 2018-02-27 10:46:09

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 7.27 Mbit/s (12.1% utilization)

95th percentile per-packet one-way delay: 11.939 ms

Loss rate: 0.31%

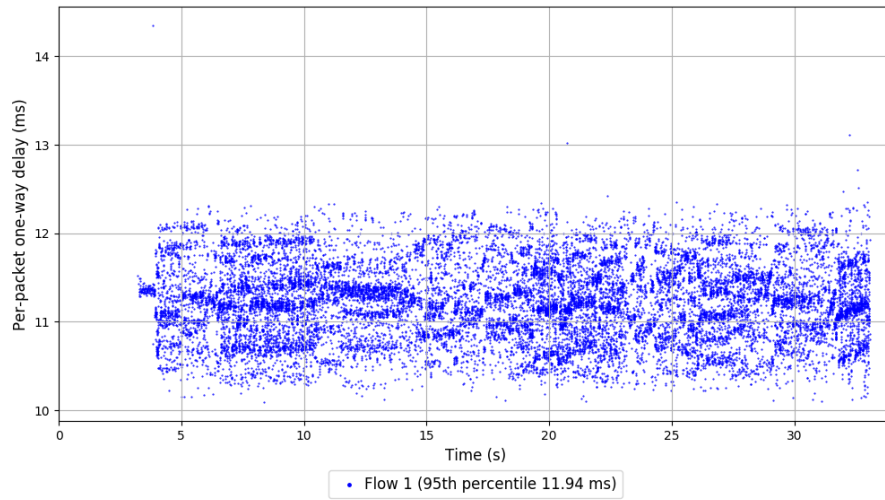
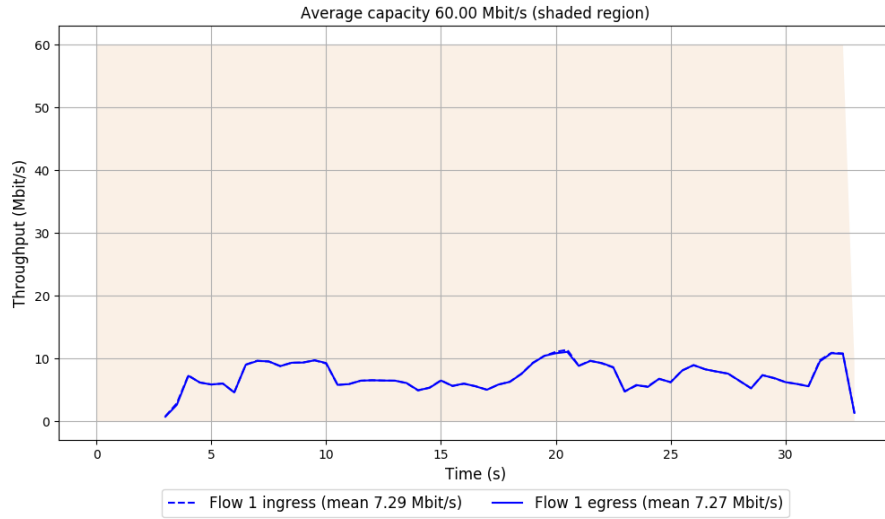
-- Flow 1:

Average throughput: 7.27 Mbit/s

95th percentile per-packet one-way delay: 11.939 ms

Loss rate: 0.31%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-27 10:22:25

End at: 2018-02-27 10:22:55

Below is generated by plot.py at 2018-02-27 10:46:09

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 6.00 Mbit/s (10.0% utilization)

95th percentile per-packet one-way delay: 11.954 ms

Loss rate: 0.15%

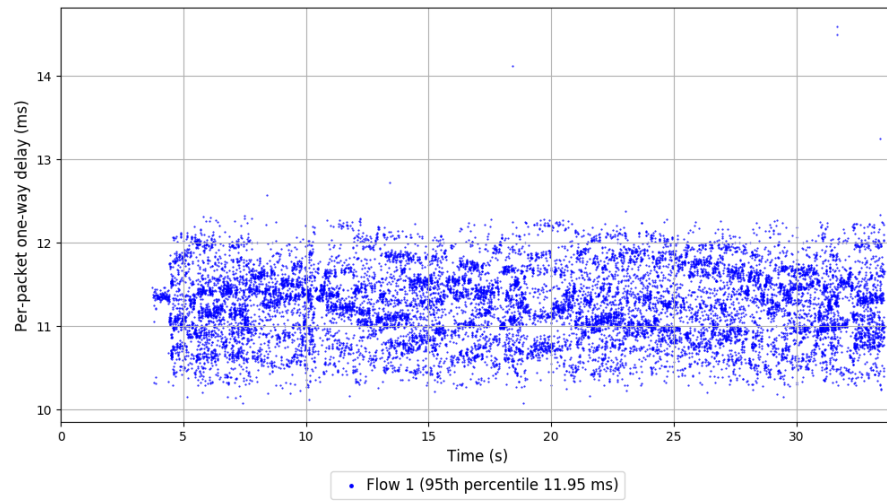
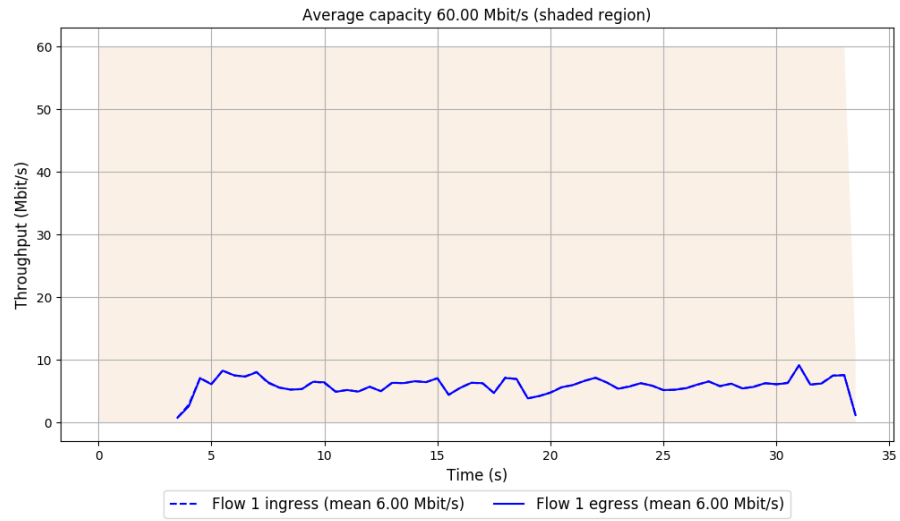
-- Flow 1:

Average throughput: 6.00 Mbit/s

95th percentile per-packet one-way delay: 11.954 ms

Loss rate: 0.15%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-27 10:32:49

End at: 2018-02-27 10:33:19

Below is generated by plot.py at 2018-02-27 10:46:15

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 6.78 Mbit/s (11.3% utilization)

95th percentile per-packet one-way delay: 11.985 ms

Loss rate: 1.29%

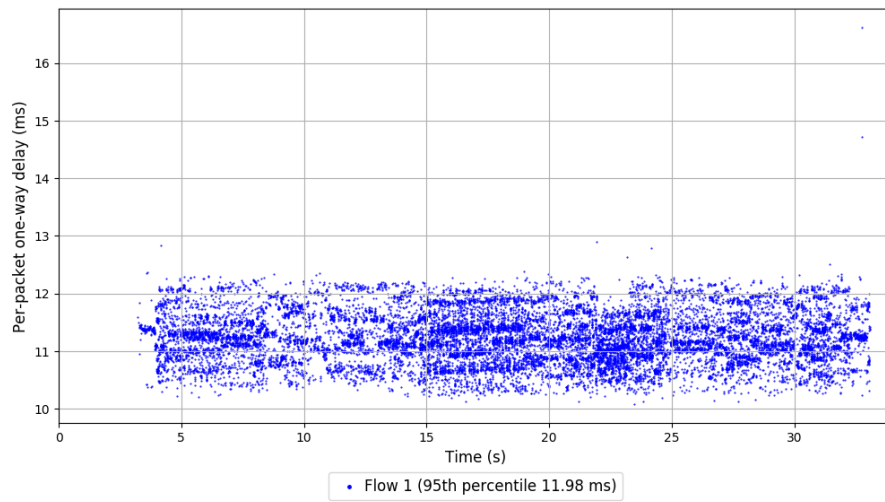
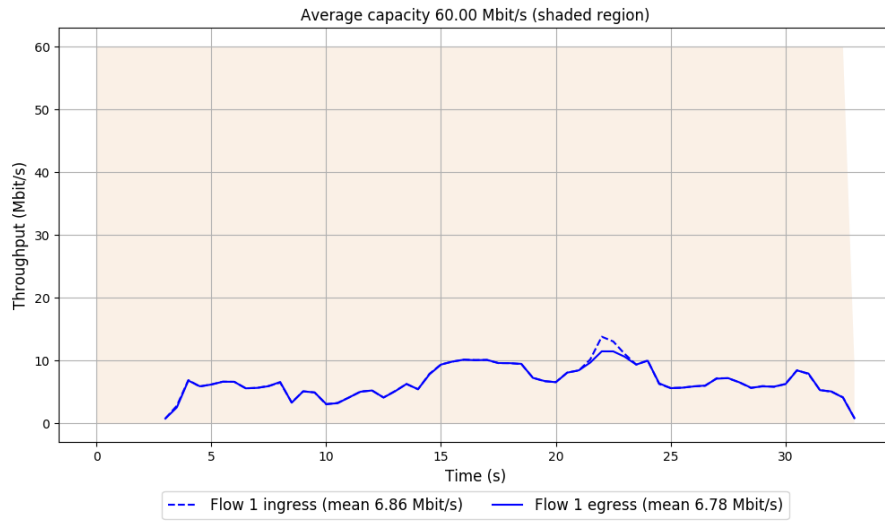
-- Flow 1:

Average throughput: 6.78 Mbit/s

95th percentile per-packet one-way delay: 11.985 ms

Loss rate: 1.29%

Run 10: Report of Vivace-latency — Data Link



Run 1: Statistics of Vivace-loss

Start at: 2018-02-27 08:54:31

End at: 2018-02-27 08:55:01

Below is generated by plot.py at 2018-02-27 10:46:15

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 6.99 Mbit/s (11.6% utilization)

95th percentile per-packet one-way delay: 11.875 ms

Loss rate: 0.13%

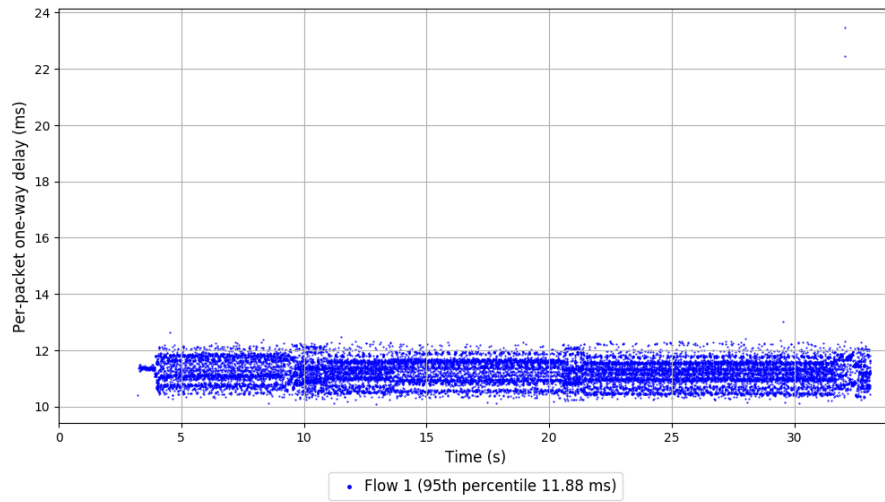
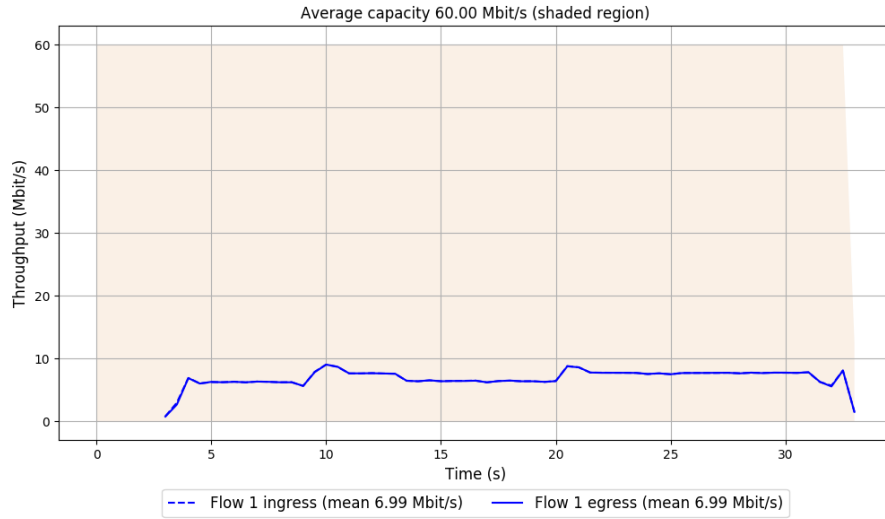
-- Flow 1:

Average throughput: 6.99 Mbit/s

95th percentile per-packet one-way delay: 11.875 ms

Loss rate: 0.13%

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-27 09:04:55

End at: 2018-02-27 09:05:25

Below is generated by plot.py at 2018-02-27 10:46:20

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 6.53 Mbit/s (10.9% utilization)

95th percentile per-packet one-way delay: 11.857 ms

Loss rate: 0.13%

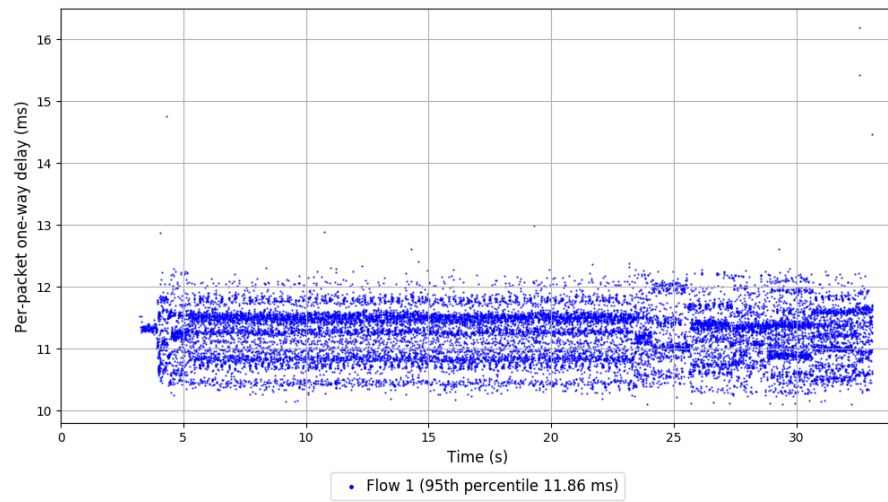
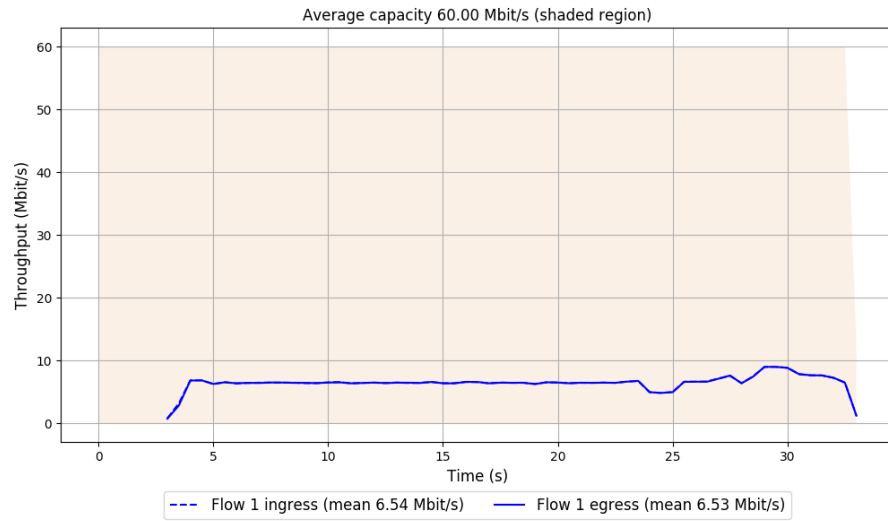
-- Flow 1:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 11.857 ms

Loss rate: 0.13%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-27 09:15:18

End at: 2018-02-27 09:15:48

Below is generated by plot.py at 2018-02-27 10:46:23

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 7.93 Mbit/s (13.2% utilization)

95th percentile per-packet one-way delay: 11.850 ms

Loss rate: 0.35%

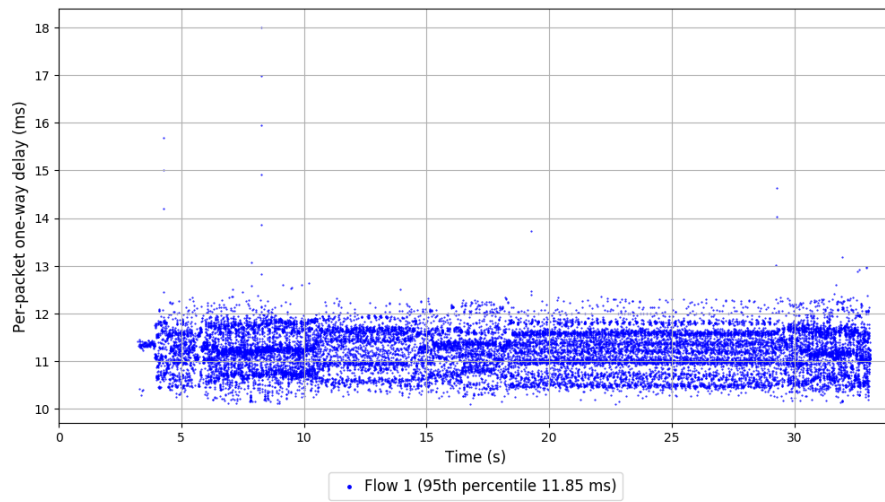
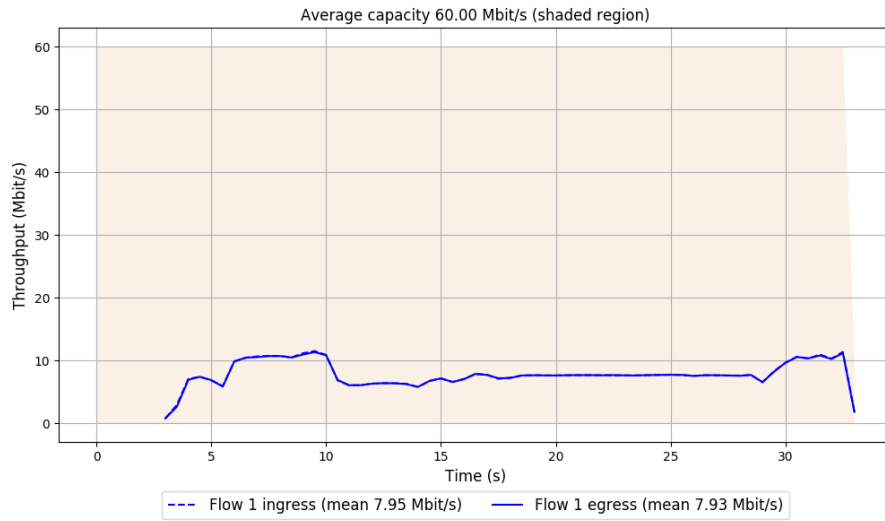
-- Flow 1:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 11.850 ms

Loss rate: 0.35%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-27 09:25:43

End at: 2018-02-27 09:26:13

Below is generated by plot.py at 2018-02-27 10:46:25

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 6.23 Mbit/s (10.4% utilization)

95th percentile per-packet one-way delay: 11.920 ms

Loss rate: 0.15%

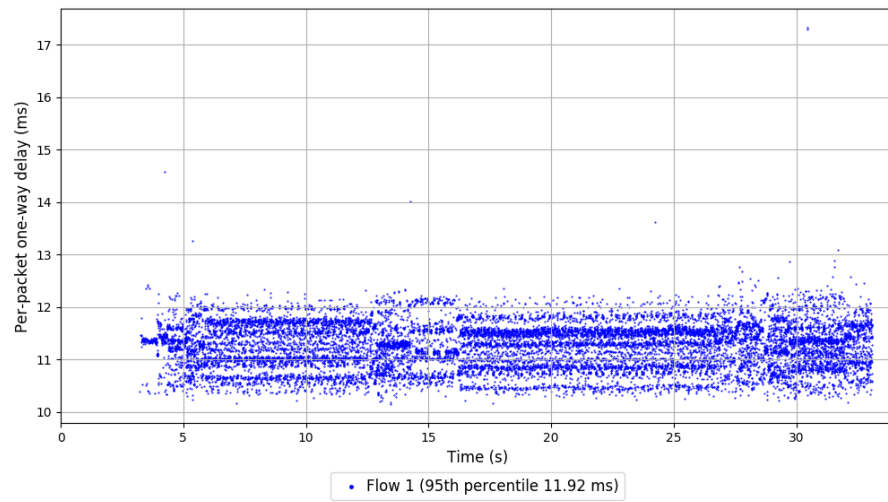
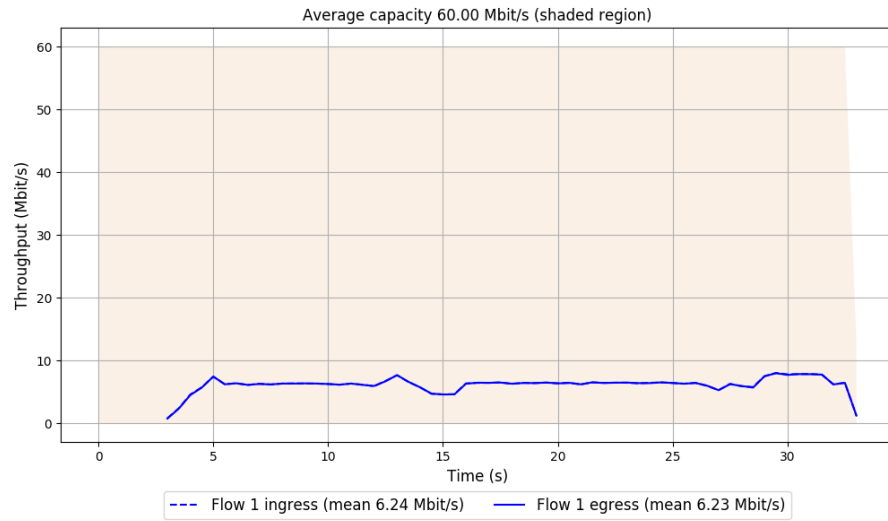
-- Flow 1:

Average throughput: 6.23 Mbit/s

95th percentile per-packet one-way delay: 11.920 ms

Loss rate: 0.15%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-27 09:36:07

End at: 2018-02-27 09:36:37

Below is generated by plot.py at 2018-02-27 10:46:34

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 6.07 Mbit/s (10.1% utilization)

95th percentile per-packet one-way delay: 11.937 ms

Loss rate: 0.14%

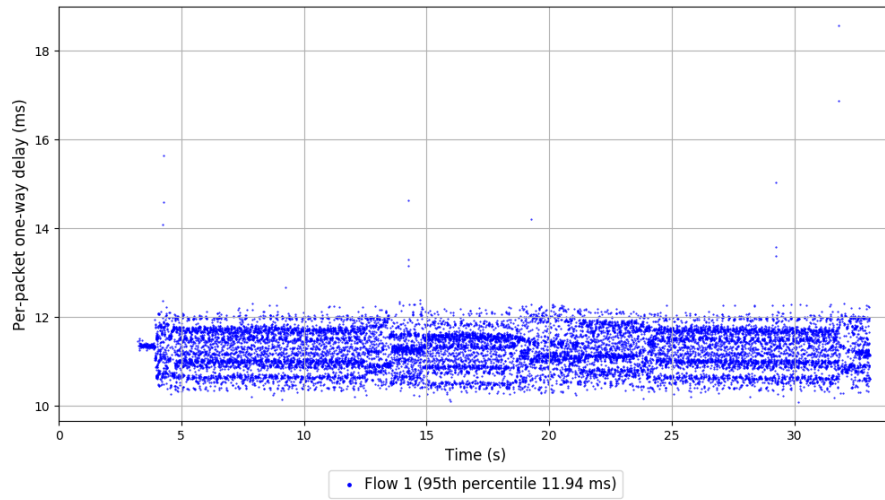
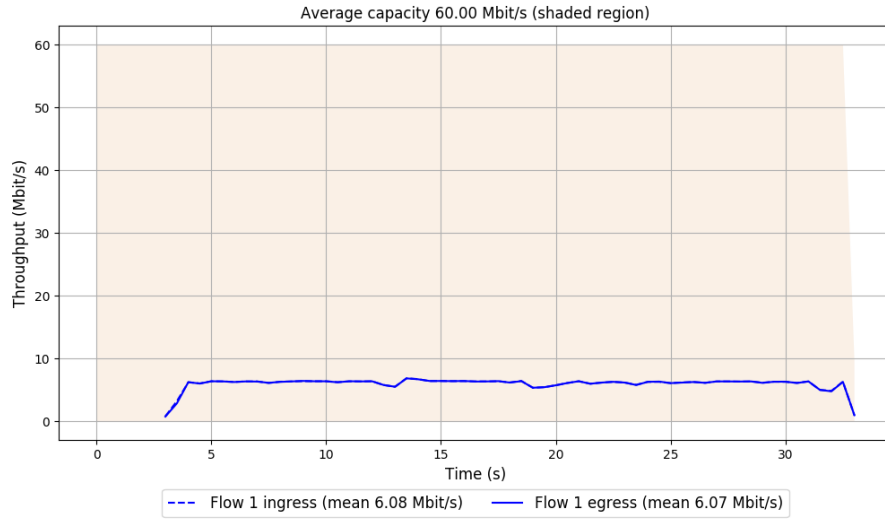
-- Flow 1:

Average throughput: 6.07 Mbit/s

95th percentile per-packet one-way delay: 11.937 ms

Loss rate: 0.14%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-27 09:46:33

End at: 2018-02-27 09:47:03

Below is generated by plot.py at 2018-02-27 10:46:36

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 6.98 Mbit/s (11.6% utilization)

95th percentile per-packet one-way delay: 11.952 ms

Loss rate: 0.32%

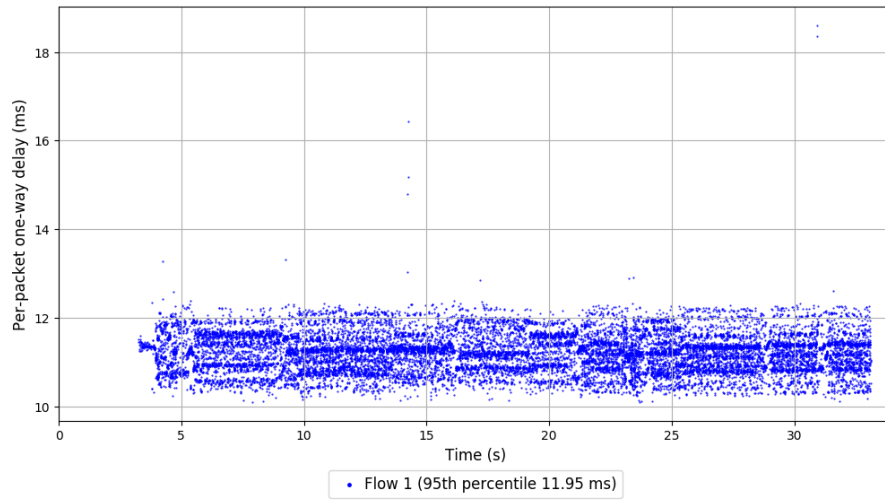
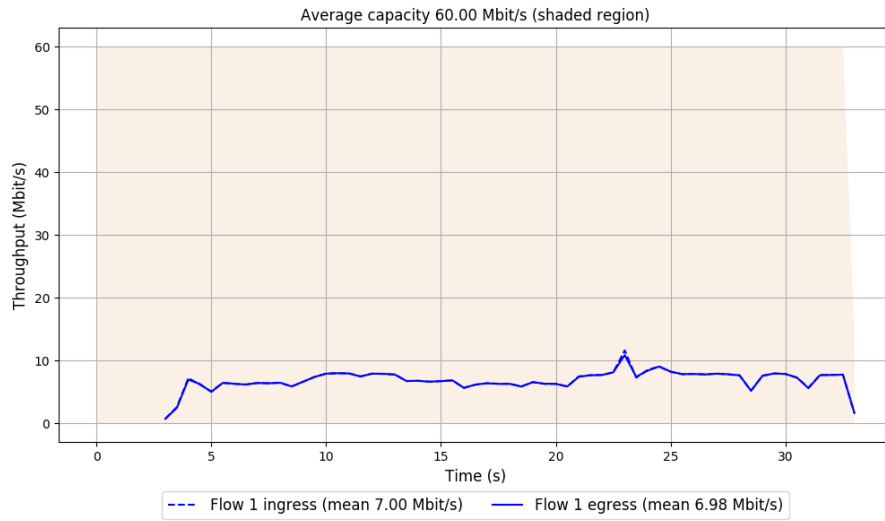
-- Flow 1:

Average throughput: 6.98 Mbit/s

95th percentile per-packet one-way delay: 11.952 ms

Loss rate: 0.32%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-27 09:56:58

End at: 2018-02-27 09:57:28

Below is generated by plot.py at 2018-02-27 10:46:36

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 6.16 Mbit/s (10.3% utilization)

95th percentile per-packet one-way delay: 11.853 ms

Loss rate: 0.10%

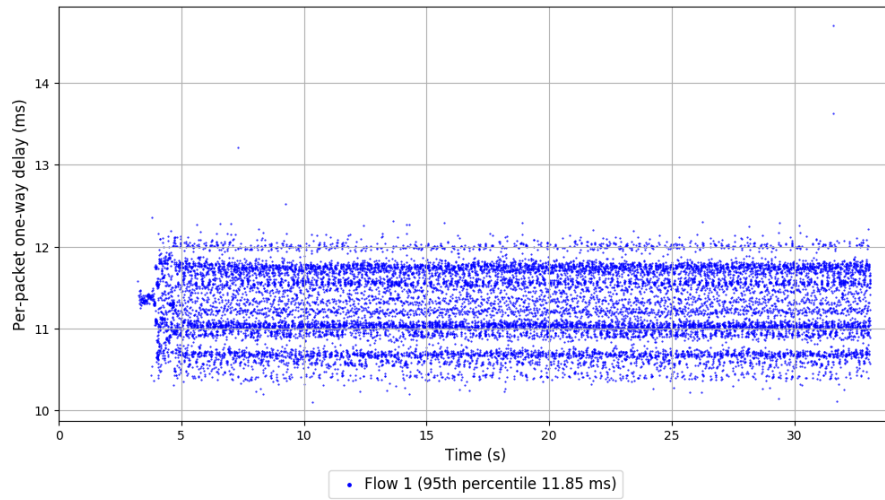
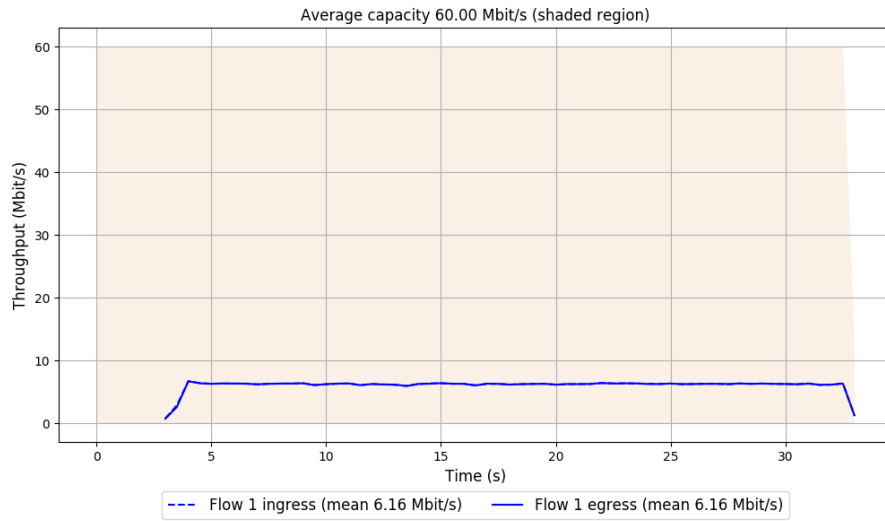
-- Flow 1:

Average throughput: 6.16 Mbit/s

95th percentile per-packet one-way delay: 11.853 ms

Loss rate: 0.10%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-27 10:07:22

End at: 2018-02-27 10:07:52

Below is generated by plot.py at 2018-02-27 10:46:42

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 7.15 Mbit/s (11.9% utilization)

95th percentile per-packet one-way delay: 11.915 ms

Loss rate: 0.58%

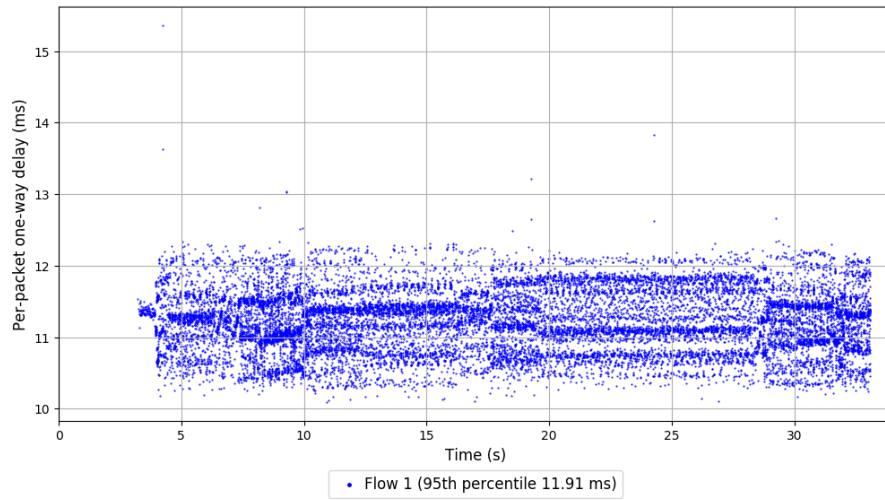
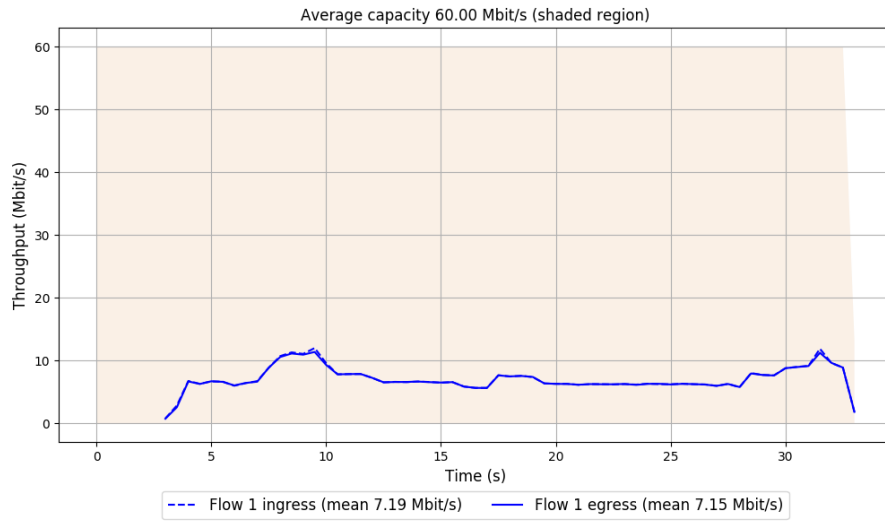
-- Flow 1:

Average throughput: 7.15 Mbit/s

95th percentile per-packet one-way delay: 11.915 ms

Loss rate: 0.58%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-27 10:17:49

End at: 2018-02-27 10:18:19

Below is generated by plot.py at 2018-02-27 10:46:42

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 6.97 Mbit/s (11.6% utilization)

95th percentile per-packet one-way delay: 11.954 ms

Loss rate: 0.61%

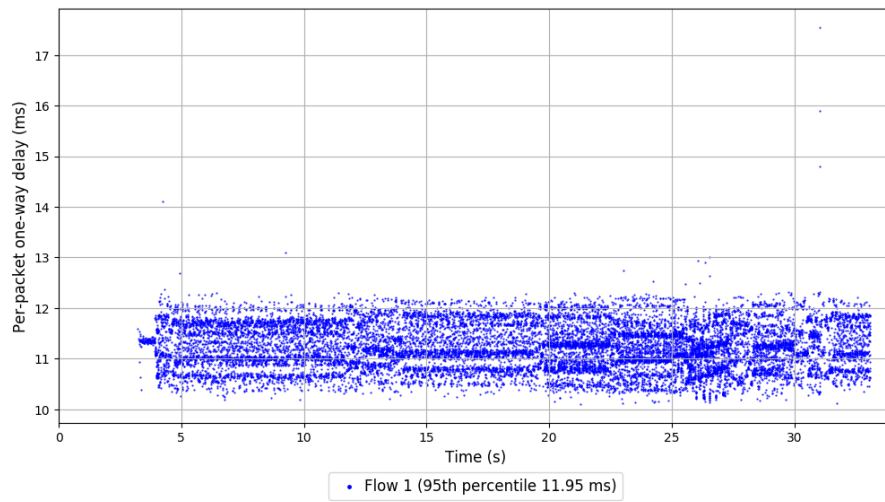
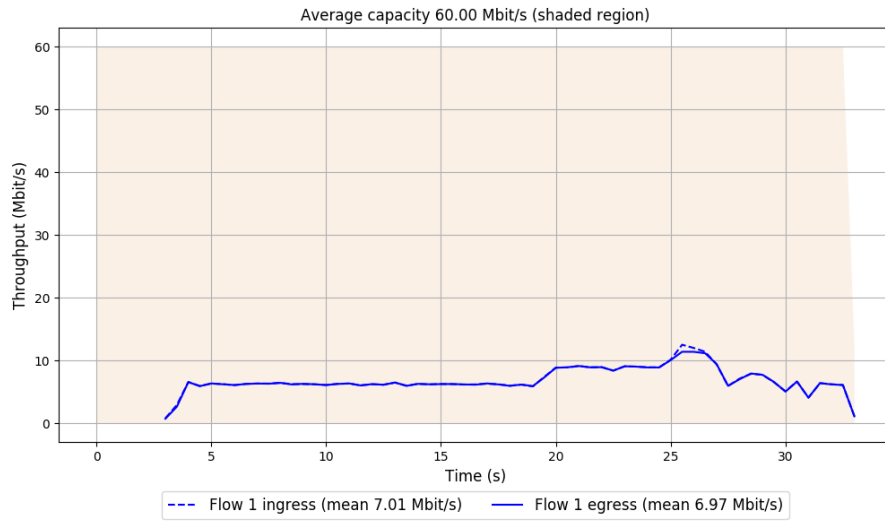
-- Flow 1:

Average throughput: 6.97 Mbit/s

95th percentile per-packet one-way delay: 11.954 ms

Loss rate: 0.61%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-27 10:28:14

End at: 2018-02-27 10:28:44

Below is generated by plot.py at 2018-02-27 10:46:47

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 6.35 Mbit/s (10.6% utilization)

95th percentile per-packet one-way delay: 11.870 ms

Loss rate: 0.17%

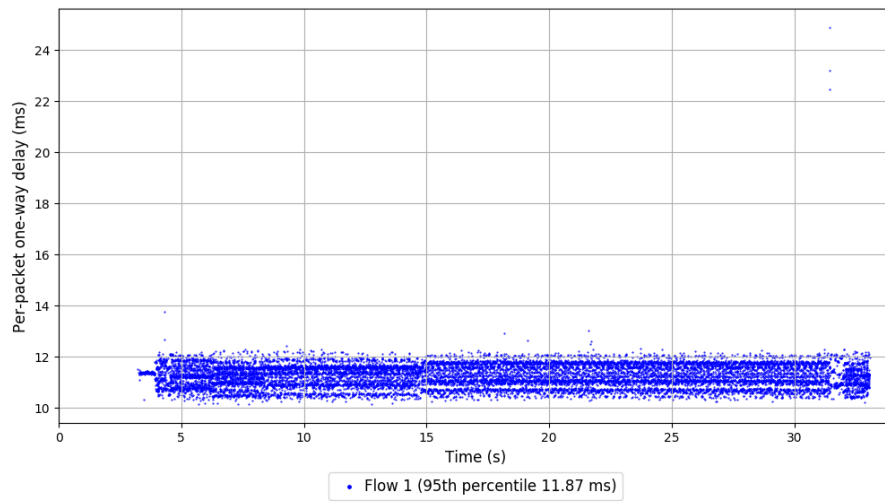
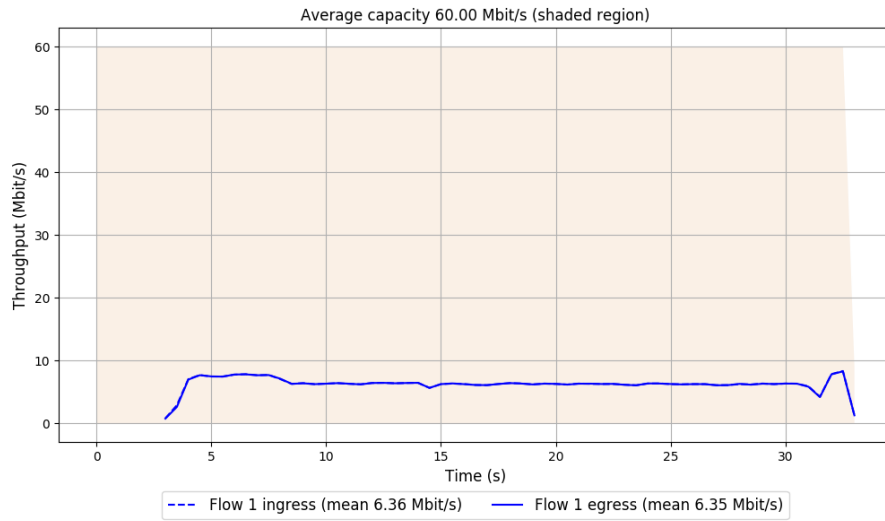
-- Flow 1:

Average throughput: 6.35 Mbit/s

95th percentile per-packet one-way delay: 11.870 ms

Loss rate: 0.17%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-02-27 08:59:41

End at: 2018-02-27 09:00:11

Below is generated by plot.py at 2018-02-27 10:46:50

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 6.85 Mbit/s (11.4% utilization)

95th percentile per-packet one-way delay: 11.905 ms

Loss rate: 0.13%

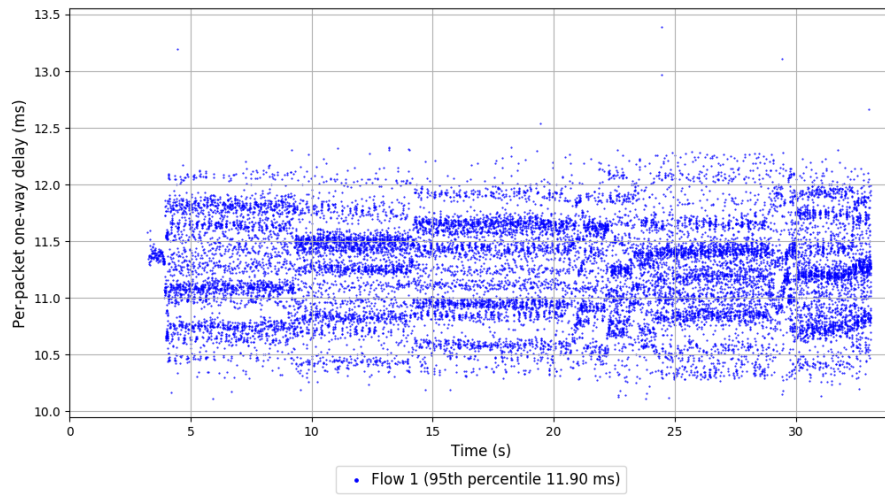
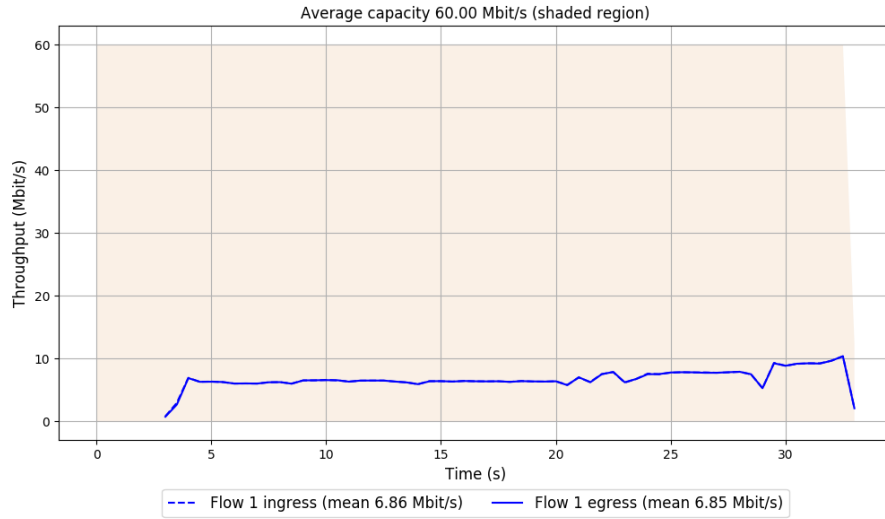
-- Flow 1:

Average throughput: 6.85 Mbit/s

95th percentile per-packet one-way delay: 11.905 ms

Loss rate: 0.13%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-27 09:10:05

End at: 2018-02-27 09:10:35

Below is generated by plot.py at 2018-02-27 10:46:53

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 7.04 Mbit/s (11.7% utilization)

95th percentile per-packet one-way delay: 11.924 ms

Loss rate: 0.18%

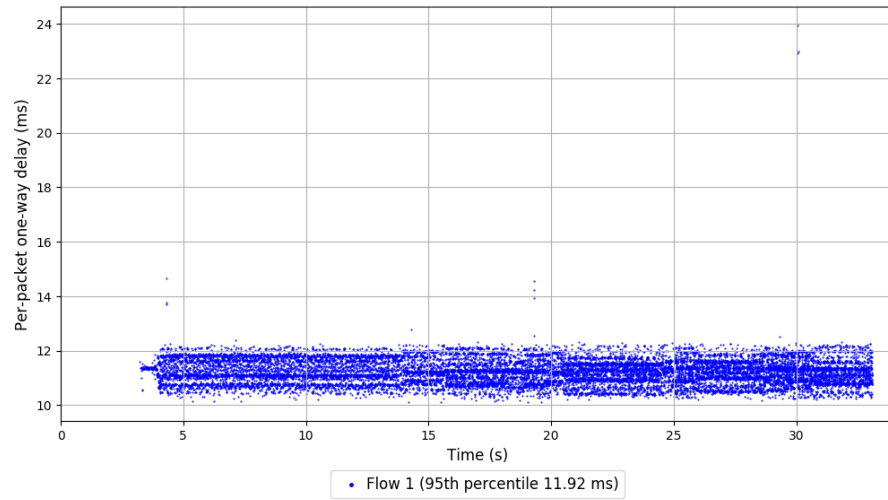
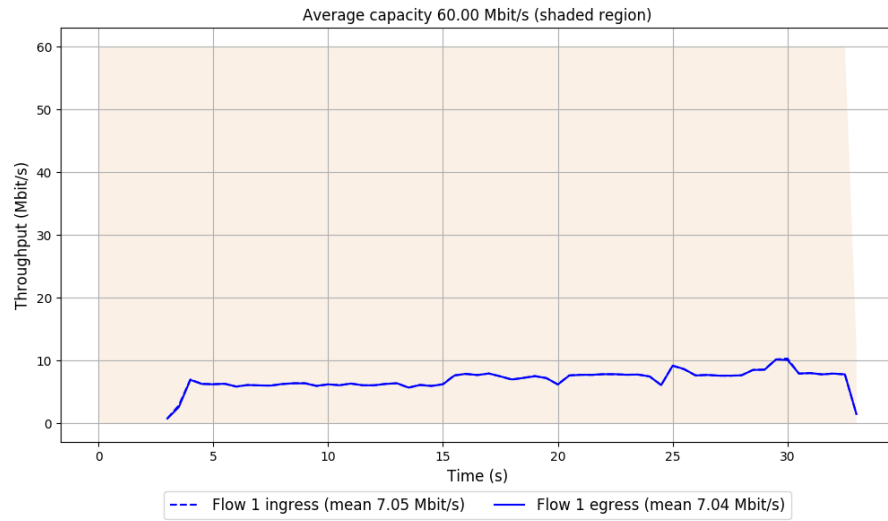
-- Flow 1:

Average throughput: 7.04 Mbit/s

95th percentile per-packet one-way delay: 11.924 ms

Loss rate: 0.18%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-27 09:20:29

End at: 2018-02-27 09:20:59

Below is generated by plot.py at 2018-02-27 10:47:01

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 6.59 Mbit/s (11.0% utilization)

95th percentile per-packet one-way delay: 11.878 ms

Loss rate: 0.06%

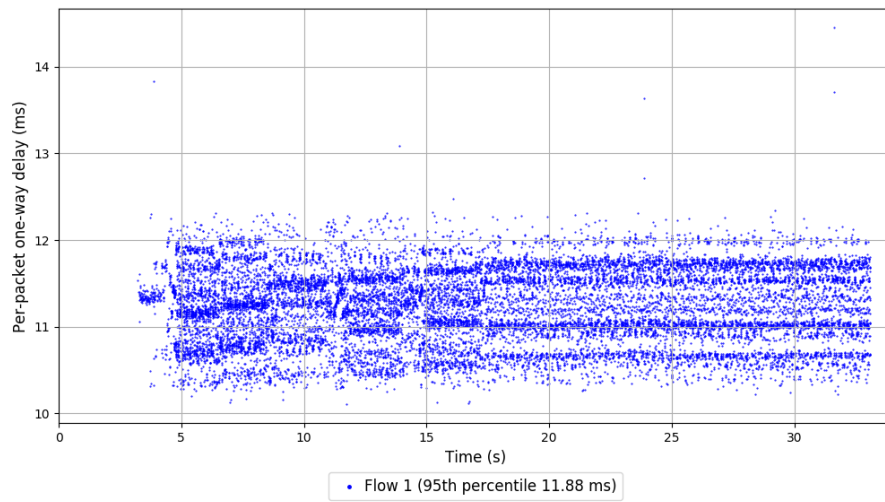
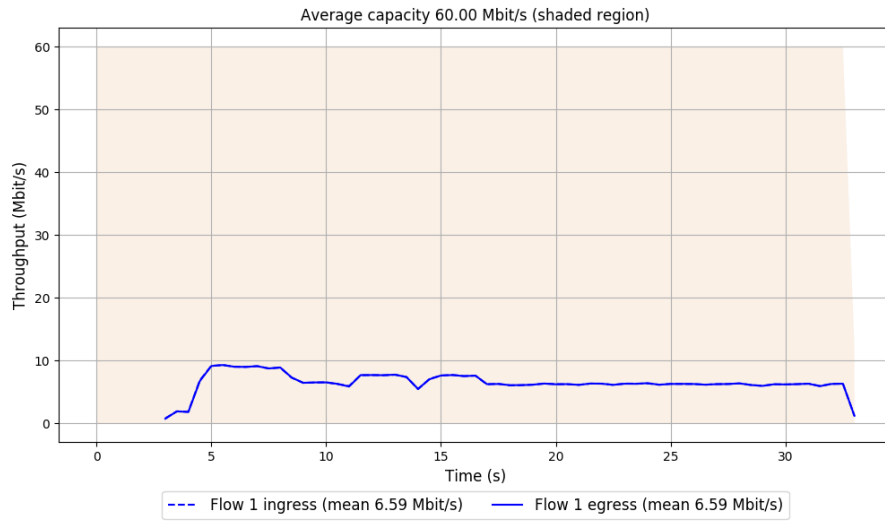
-- Flow 1:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 11.878 ms

Loss rate: 0.06%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-27 09:30:53

End at: 2018-02-27 09:31:23

Below is generated by plot.py at 2018-02-27 10:47:03

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 7.90 Mbit/s (13.2% utilization)

95th percentile per-packet one-way delay: 11.928 ms

Loss rate: 0.17%

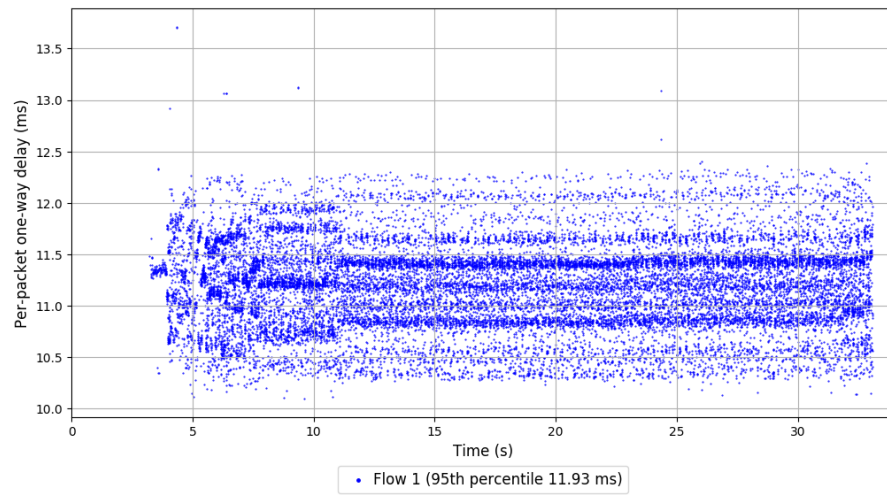
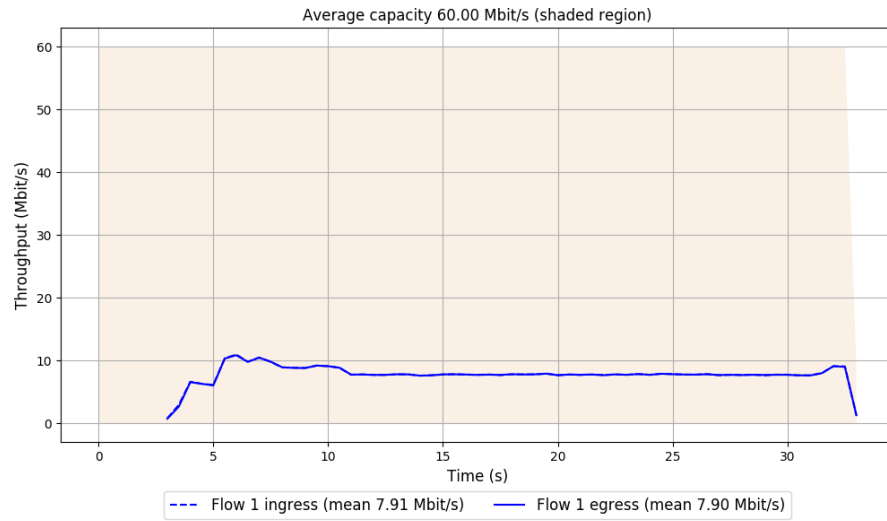
-- Flow 1:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 11.928 ms

Loss rate: 0.17%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-27 09:41:17

End at: 2018-02-27 09:41:47

Below is generated by plot.py at 2018-02-27 10:47:03

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 7.39 Mbit/s (12.3% utilization)

95th percentile per-packet one-way delay: 11.886 ms

Loss rate: 0.13%

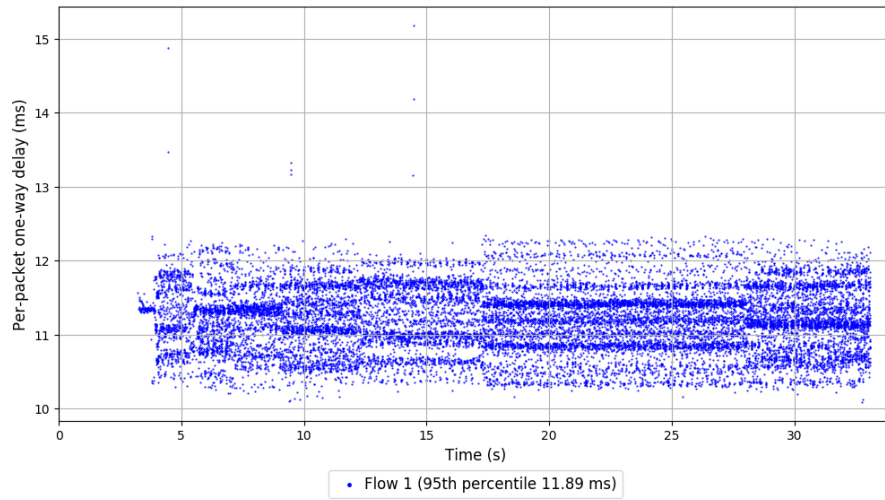
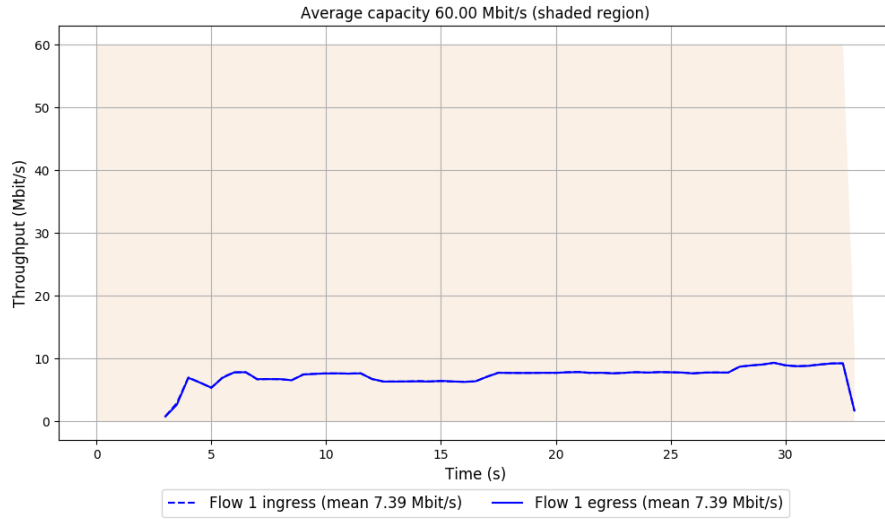
-- Flow 1:

Average throughput: 7.39 Mbit/s

95th percentile per-packet one-way delay: 11.886 ms

Loss rate: 0.13%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-27 09:51:43

End at: 2018-02-27 09:52:13

Below is generated by plot.py at 2018-02-27 10:47:07

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 6.46 Mbit/s (10.8% utilization)

95th percentile per-packet one-way delay: 11.870 ms

Loss rate: 0.06%

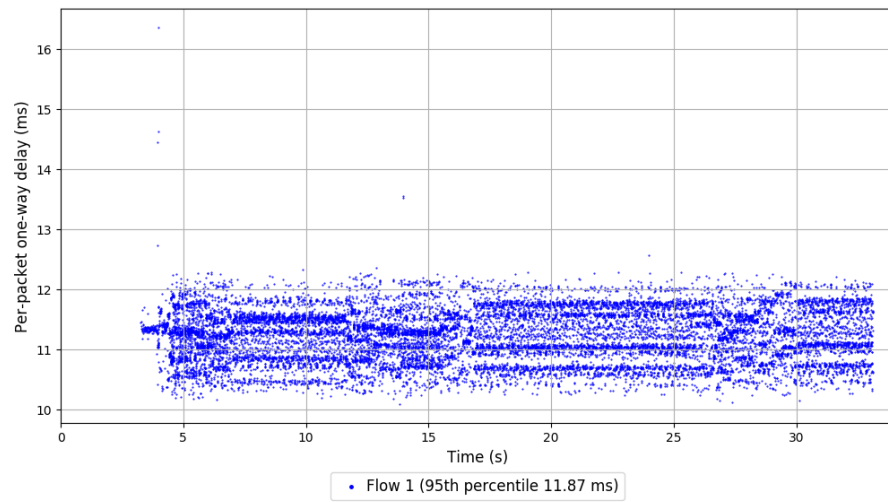
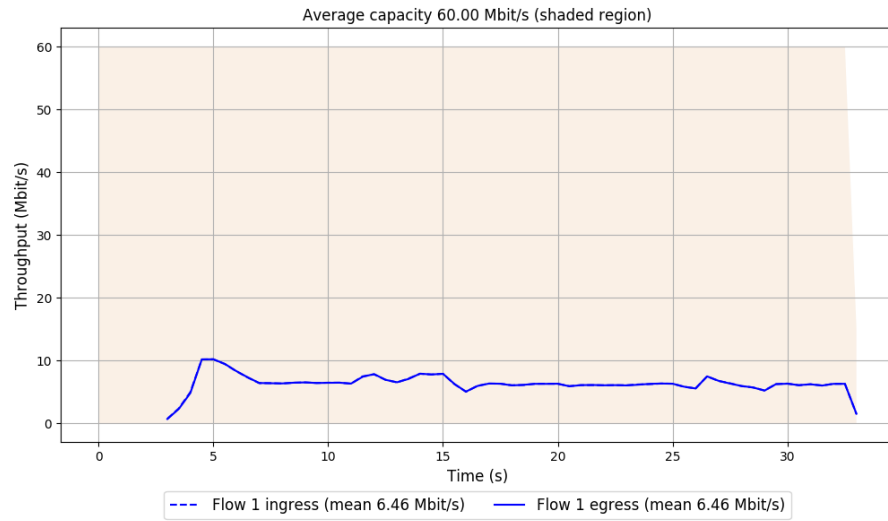
-- Flow 1:

Average throughput: 6.46 Mbit/s

95th percentile per-packet one-way delay: 11.870 ms

Loss rate: 0.06%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-27 10:02:08

End at: 2018-02-27 10:02:38

Below is generated by plot.py at 2018-02-27 10:47:07

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 6.34 Mbit/s (10.6% utilization)

95th percentile per-packet one-way delay: 11.932 ms

Loss rate: 0.13%

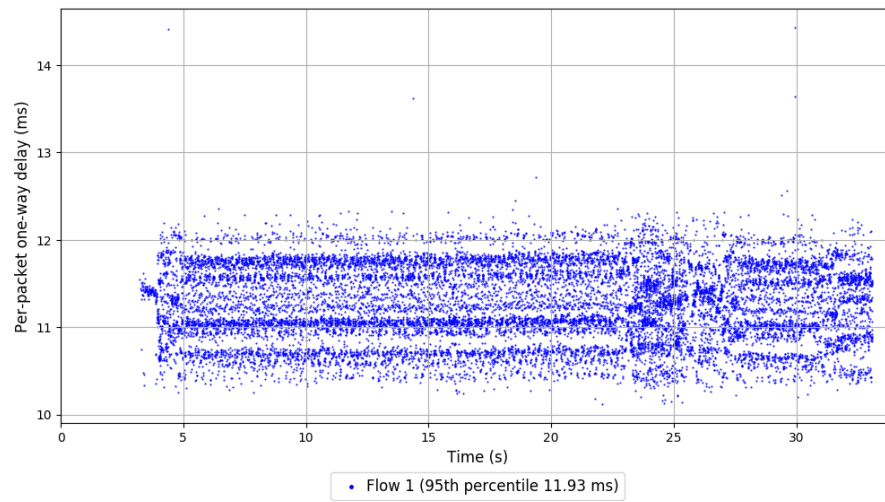
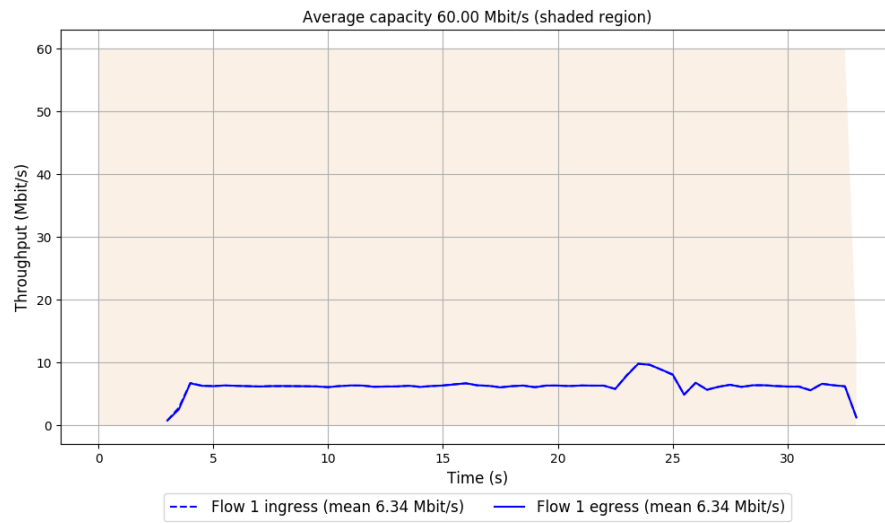
-- Flow 1:

Average throughput: 6.34 Mbit/s

95th percentile per-packet one-way delay: 11.932 ms

Loss rate: 0.13%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-27 10:12:32

End at: 2018-02-27 10:13:02

Below is generated by plot.py at 2018-02-27 10:47:09

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 7.50 Mbit/s (12.5% utilization)

95th percentile per-packet one-way delay: 11.929 ms

Loss rate: 0.13%

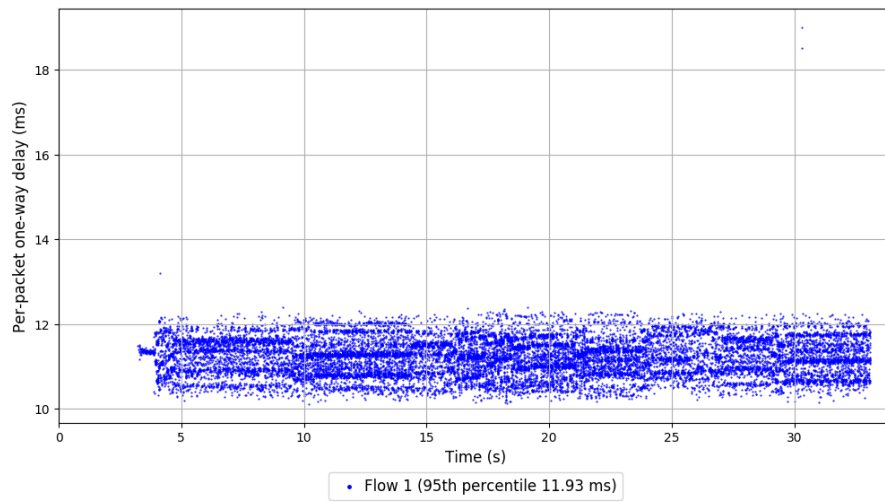
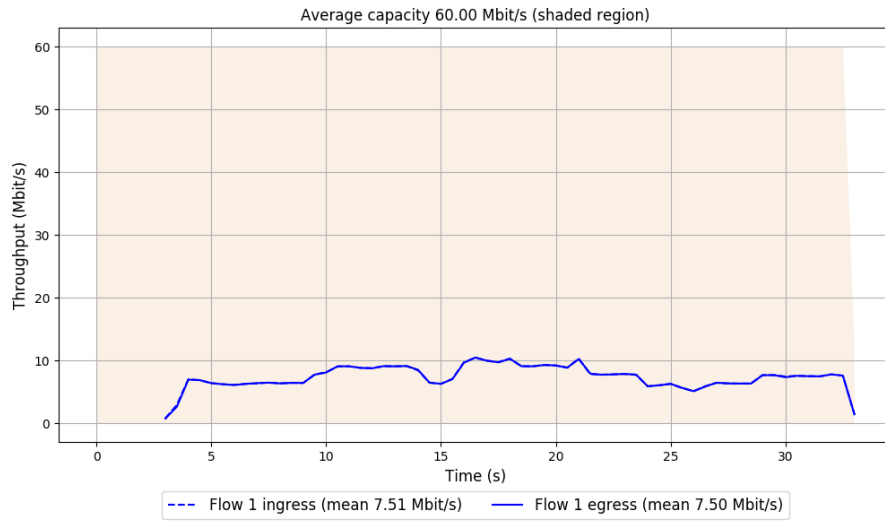
-- Flow 1:

Average throughput: 7.50 Mbit/s

95th percentile per-packet one-way delay: 11.929 ms

Loss rate: 0.13%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-27 10:23:00

End at: 2018-02-27 10:23:30

Below is generated by plot.py at 2018-02-27 10:47:10

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 6.88 Mbit/s (11.5% utilization)

95th percentile per-packet one-way delay: 11.894 ms

Loss rate: 0.15%

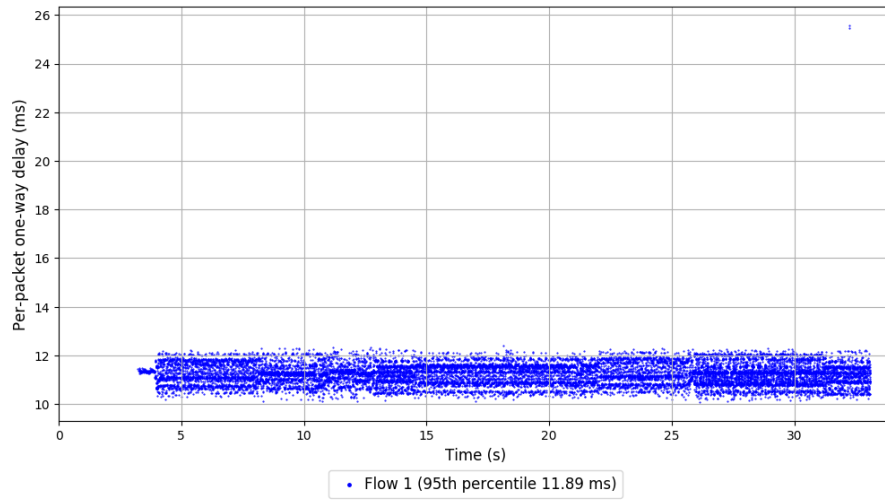
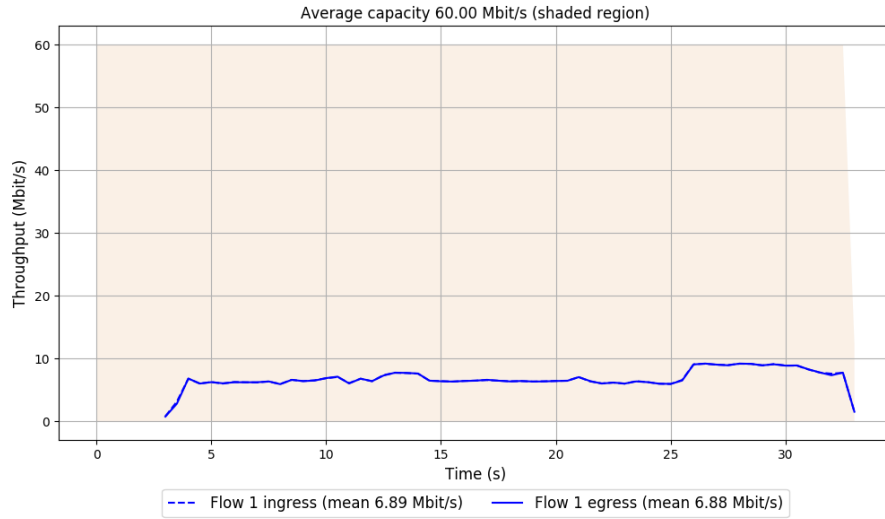
-- Flow 1:

Average throughput: 6.88 Mbit/s

95th percentile per-packet one-way delay: 11.894 ms

Loss rate: 0.15%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-27 10:33:23

End at: 2018-02-27 10:33:53

Below is generated by plot.py at 2018-02-27 10:47:11

Datalink statistics

-- Total of 1 flow:

Average capacity: 60.00 Mbit/s

Average throughput: 7.06 Mbit/s (11.8% utilization)

95th percentile per-packet one-way delay: 11.945 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 7.06 Mbit/s

95th percentile per-packet one-way delay: 11.945 ms

Loss rate: 0.11%

Run 10: Report of Vivace-LTE — Data Link

