

## Pantheon Report

Generated at 2018-02-27 08:35:41 (UTC).

Tested in mahimahi: mm-delay 51 mm-loss uplink 0.0006 mm-link 77.72mbps.trace  
77.72mbps.trace --uplink-queue=droptail --uplink-queue-args=packets=94

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

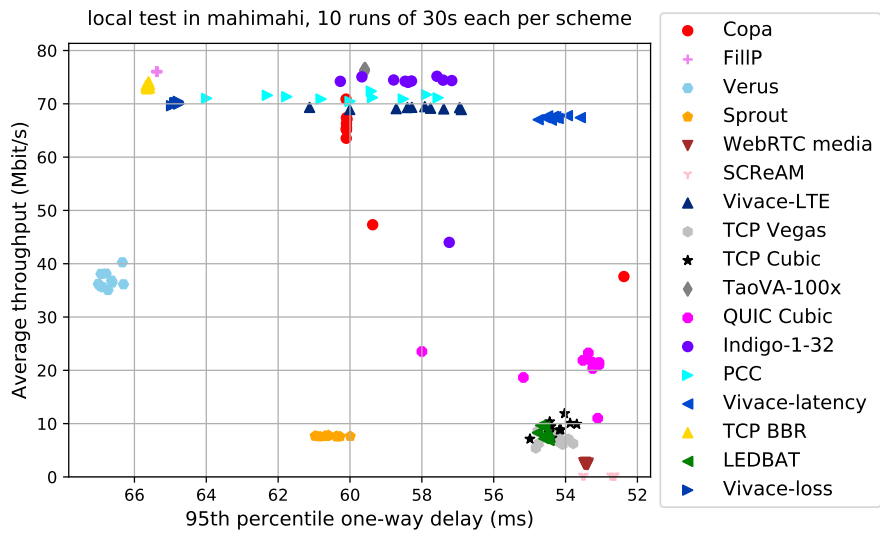
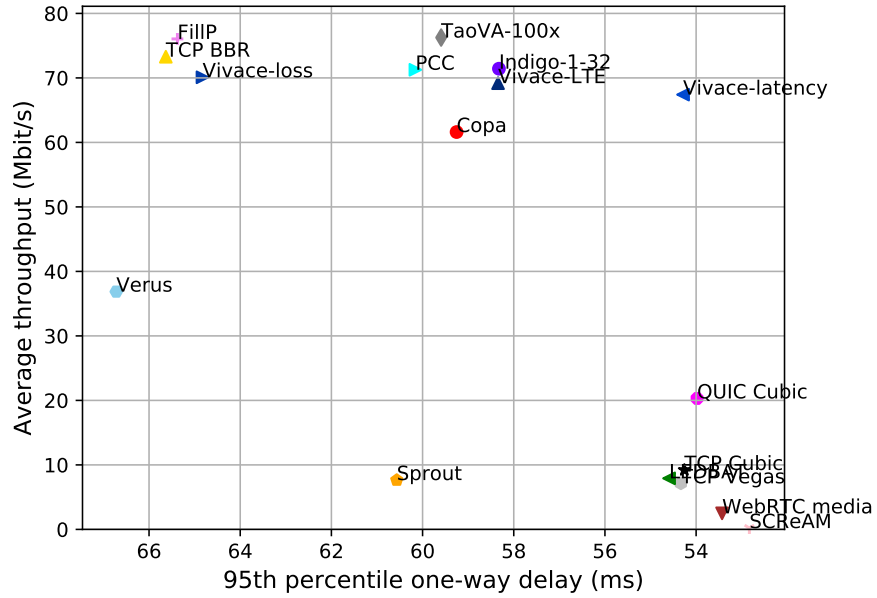
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

local test in mahimahi, 10 runs of 30s each per scheme  
(mean of all runs by scheme)



scheme	# runs	mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate (%)
		flow 1	flow 1	flow 1
TCP BBR	10	73.29	65.63	3.13
TCP Cubic	10	9.21	54.26	1.27
LEDBAT	10	7.92	54.59	0.19
PCC	10	71.26	60.16	1.67
QUIC Cubic	9	20.30	53.98	0.55
SCReAM	10	0.20	52.83	0.16
WebRTC media	10	2.49	53.43	0.29
Sprout	10	7.65	60.57	0.34
TaoVA-100x	10	76.26	59.59	12.00
TCP Vegas	10	7.14	54.33	0.72
Verus	10	36.86	66.72	74.12
Copa	10	61.61	59.25	75.35
FillP	10	76.05	65.38	17.69
Indigo-1-32	10	71.43	58.33	1.46
Vivace-latency	10	67.41	54.29	0.80
Vivace-loss	10	70.09	64.83	1.30
Vivace-LTE	10	69.19	58.34	0.76

Run 1: Statistics of TCP BBR

Start at: 2018-02-27 06:11:34

End at: 2018-02-27 06:12:04

# Below is generated by plot.py at 2018-02-27 08:05:39

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 73.02 Mbit/s (93.9% utilization)

95th percentile per-packet one-way delay: 65.646 ms

Loss rate: 3.30%

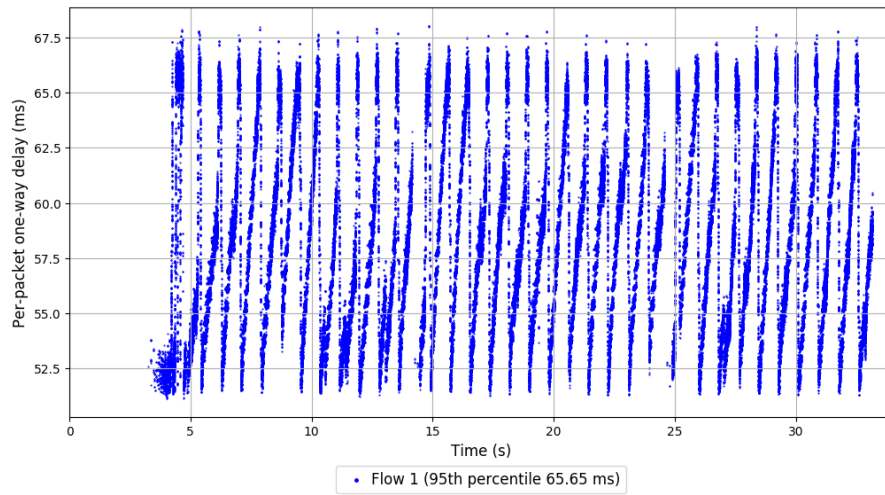
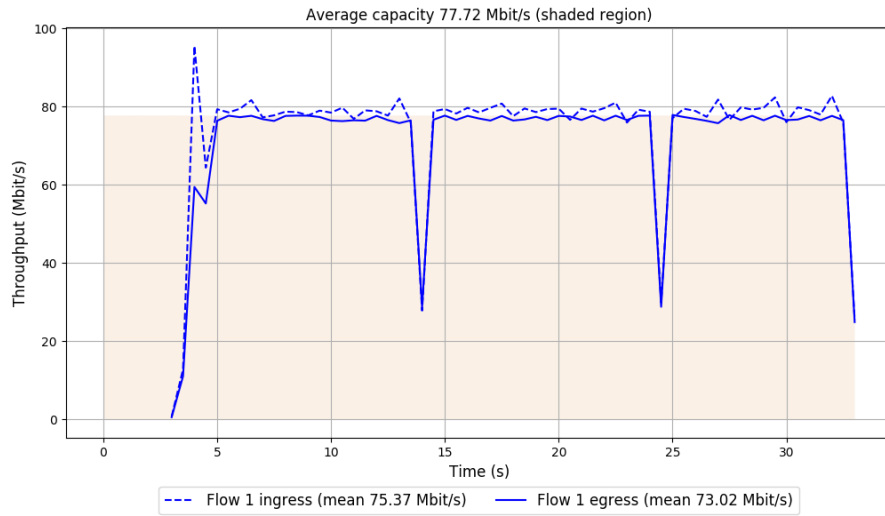
-- Flow 1:

Average throughput: 73.02 Mbit/s

95th percentile per-packet one-way delay: 65.646 ms

Loss rate: 3.30%

# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-27 06:23:00

End at: 2018-02-27 06:23:30

# Below is generated by plot.py at 2018-02-27 08:05:39

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 73.05 Mbit/s (94.0% utilization)

95th percentile per-packet one-way delay: 65.661 ms

Loss rate: 3.22%

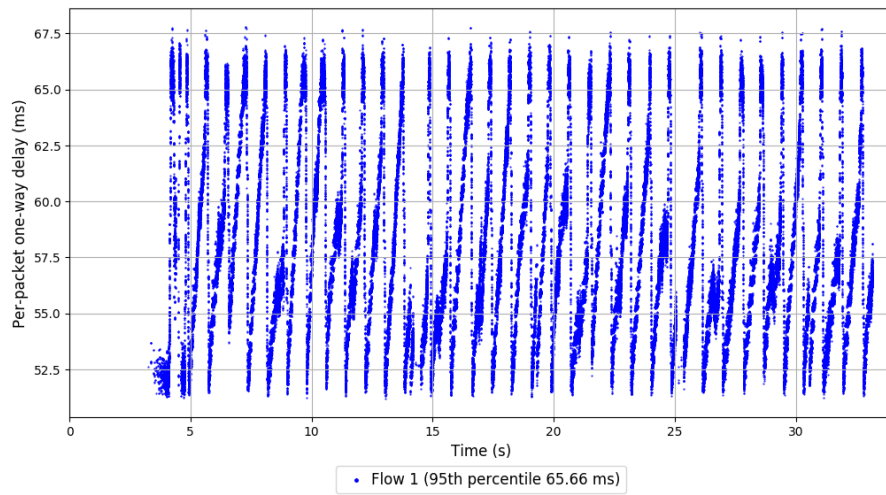
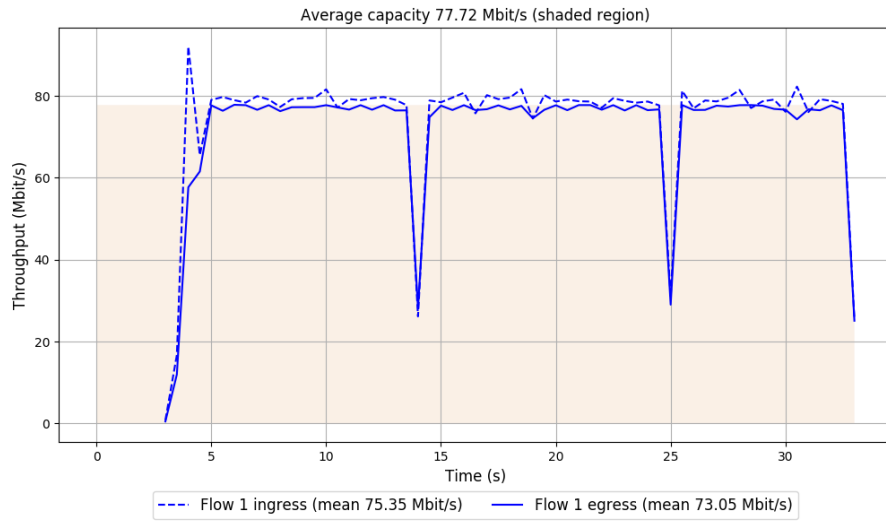
-- Flow 1:

Average throughput: 73.05 Mbit/s

95th percentile per-packet one-way delay: 65.661 ms

Loss rate: 3.22%

## Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

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

End at: 2018-02-27 06:35:08

# Below is generated by plot.py at 2018-02-27 08:05:39

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 72.98 Mbit/s (93.9% utilization)

95th percentile per-packet one-way delay: 65.581 ms

Loss rate: 2.99%

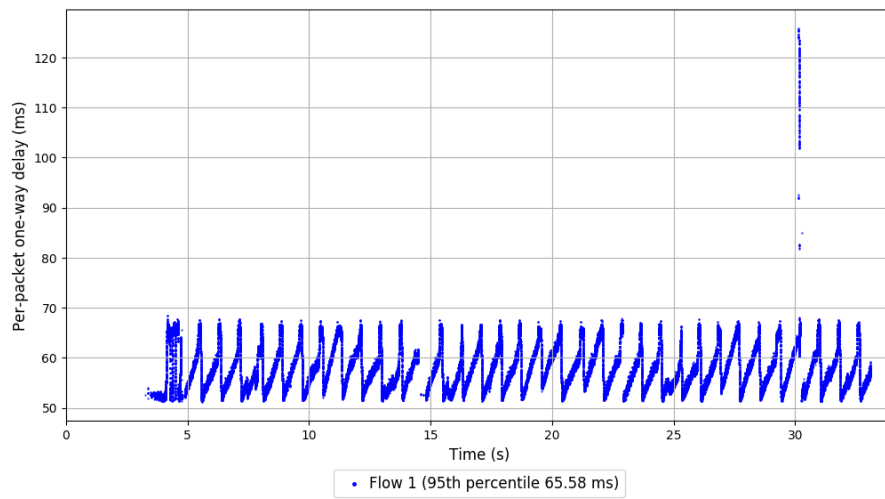
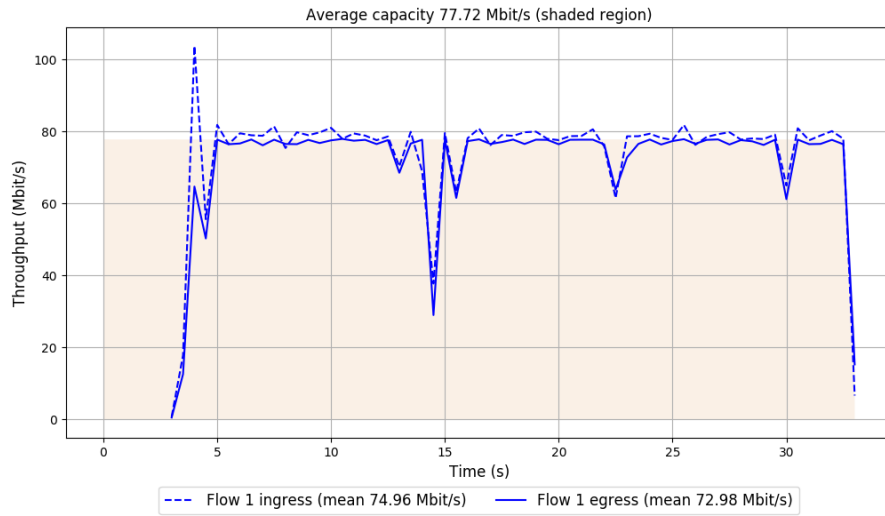
-- Flow 1:

Average throughput: 72.98 Mbit/s

95th percentile per-packet one-way delay: 65.581 ms

Loss rate: 2.99%

### Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-27 06:46:07

End at: 2018-02-27 06:46:37

# Below is generated by plot.py at 2018-02-27 08:05:39

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 72.98 Mbit/s (93.9% utilization)

95th percentile per-packet one-way delay: 65.660 ms

Loss rate: 3.15%

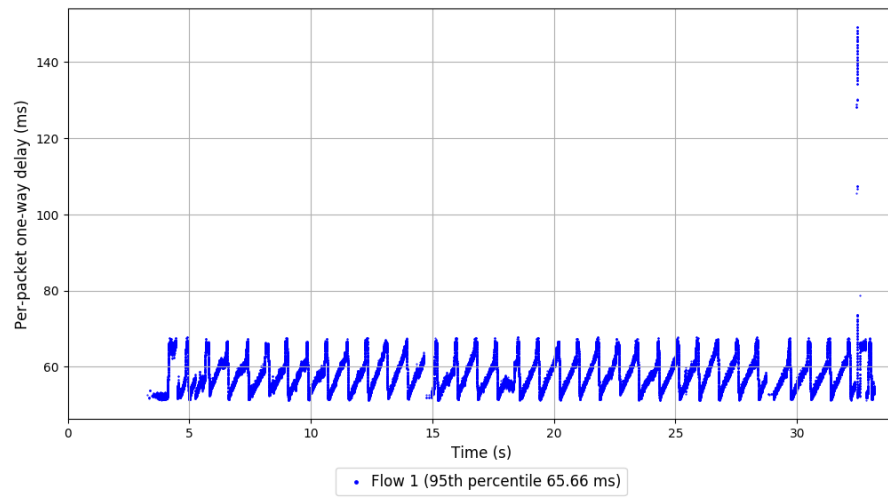
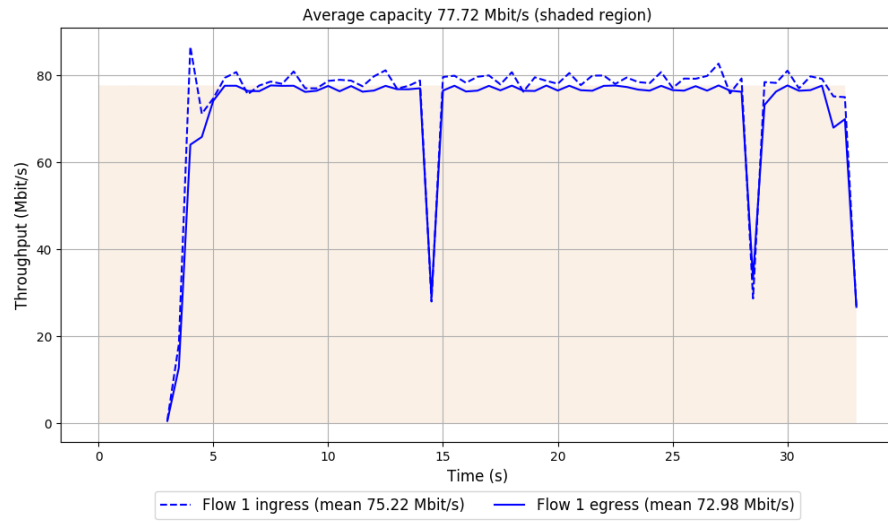
-- Flow 1:

Average throughput: 72.98 Mbit/s

95th percentile per-packet one-way delay: 65.660 ms

Loss rate: 3.15%

### Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-27 06:57:38

End at: 2018-02-27 06:58:08

# Below is generated by plot.py at 2018-02-27 08:05:40

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 73.62 Mbit/s (94.7% utilization)

95th percentile per-packet one-way delay: 65.580 ms

Loss rate: 3.02%

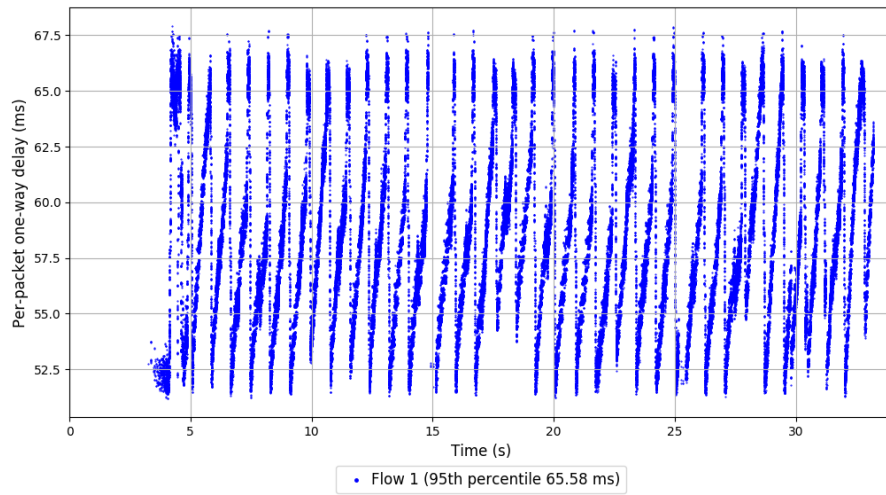
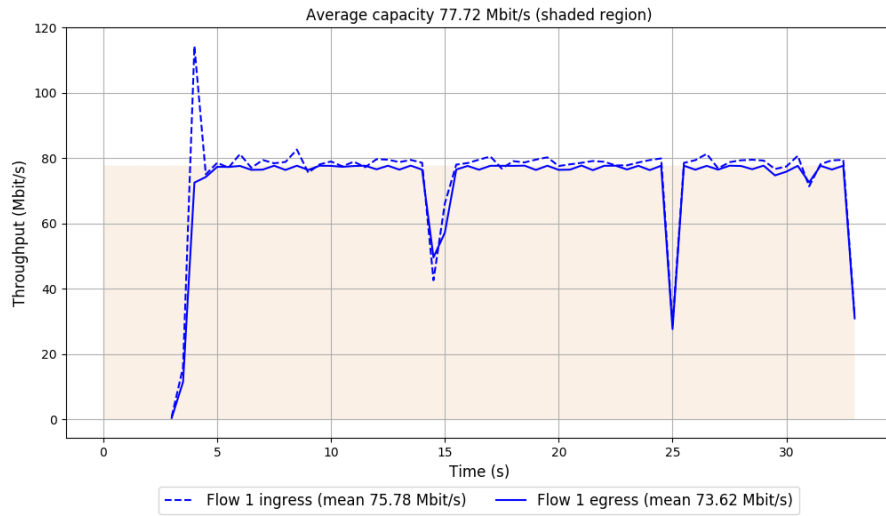
-- Flow 1:

Average throughput: 73.62 Mbit/s

95th percentile per-packet one-way delay: 65.580 ms

Loss rate: 3.02%

### Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-27 07:09:10

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

# Below is generated by plot.py at 2018-02-27 08:05:41

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 74.15 Mbit/s (95.4% utilization)

95th percentile per-packet one-way delay: 65.607 ms

Loss rate: 2.99%

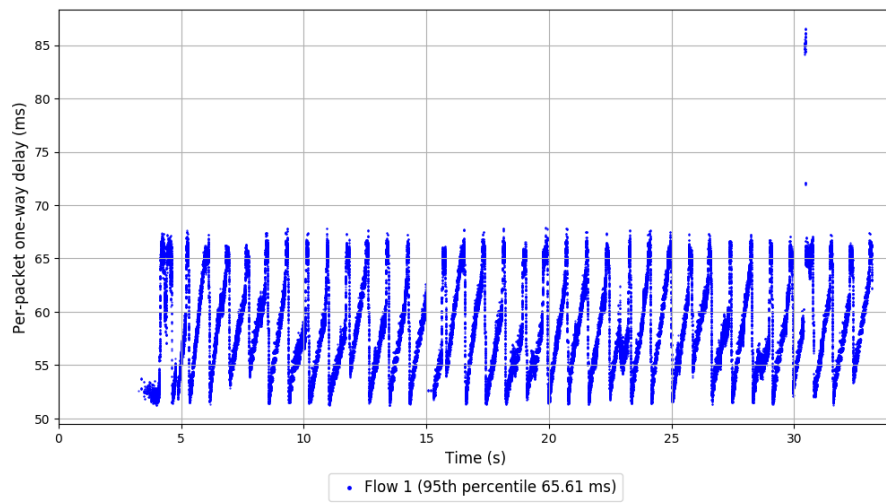
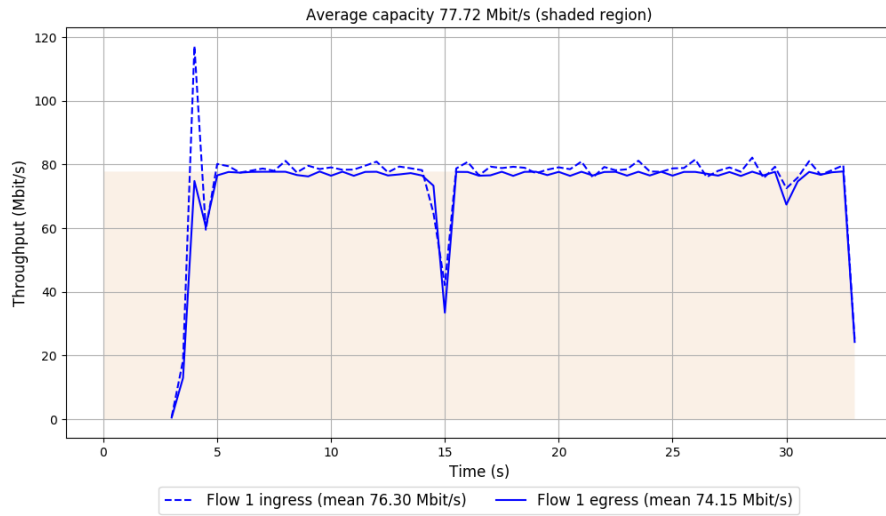
-- Flow 1:

Average throughput: 74.15 Mbit/s

95th percentile per-packet one-way delay: 65.607 ms

Loss rate: 2.99%

### Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-27 07:20:29

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

# Below is generated by plot.py at 2018-02-27 08:05:41

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 73.18 Mbit/s (94.2% utilization)

95th percentile per-packet one-way delay: 65.655 ms

Loss rate: 3.09%

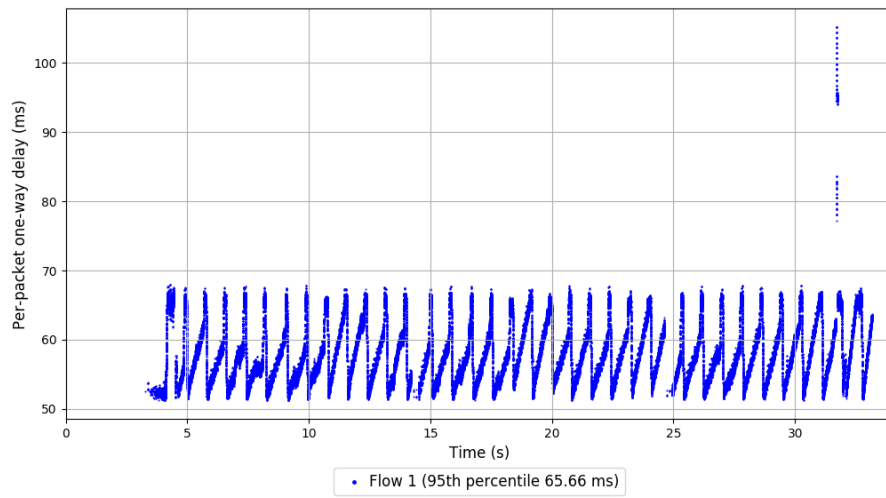
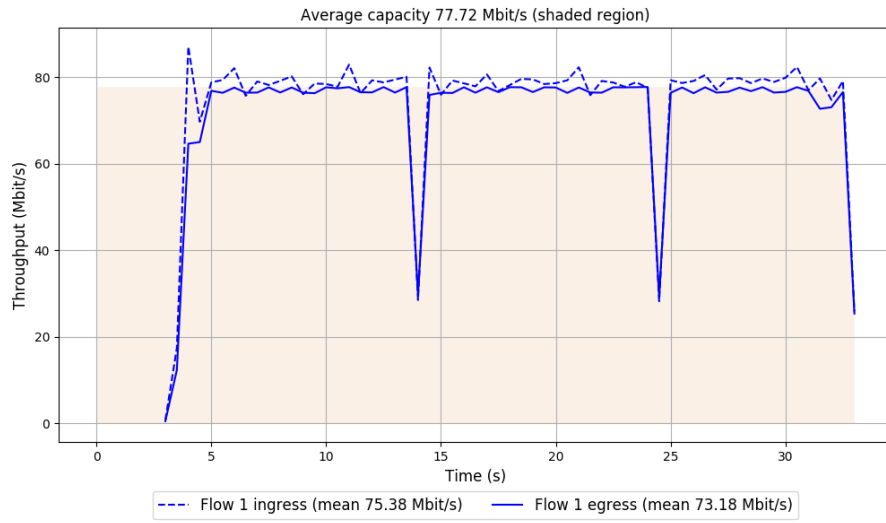
-- Flow 1:

Average throughput: 73.18 Mbit/s

95th percentile per-packet one-way delay: 65.655 ms

Loss rate: 3.09%

## Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-27 07:31:57

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

# Below is generated by plot.py at 2018-02-27 08:05:41

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 72.81 Mbit/s (93.7% utilization)

95th percentile per-packet one-way delay: 65.644 ms

Loss rate: 3.09%

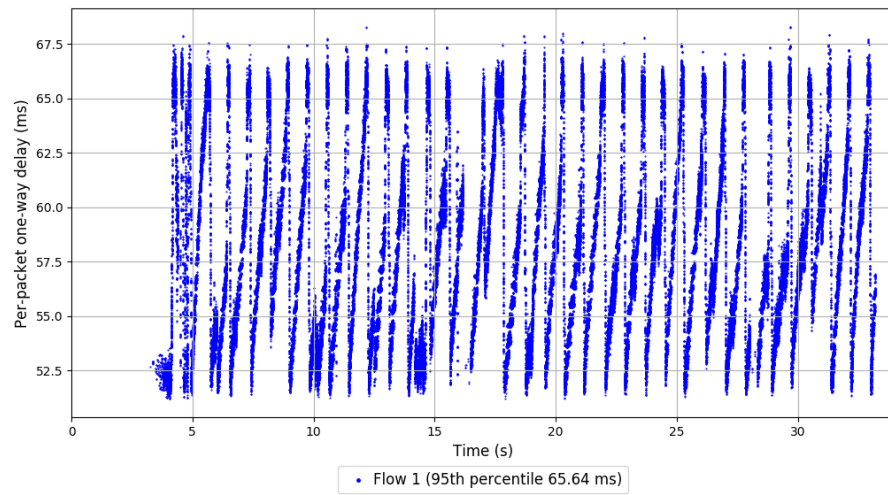
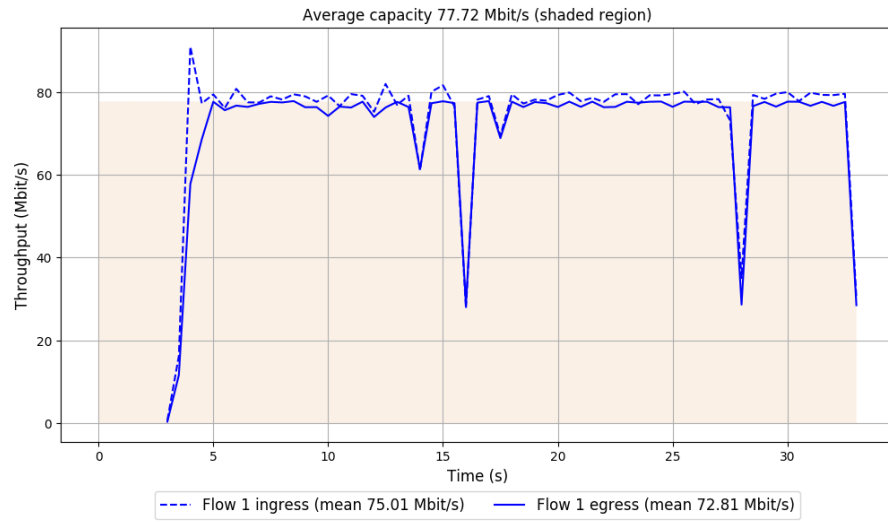
-- Flow 1:

Average throughput: 72.81 Mbit/s

95th percentile per-packet one-way delay: 65.644 ms

Loss rate: 3.09%

### Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-27 07:43:12

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

# Below is generated by plot.py at 2018-02-27 08:07:06

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 73.61 Mbit/s (94.7% utilization)

95th percentile per-packet one-way delay: 65.610 ms

Loss rate: 3.48%

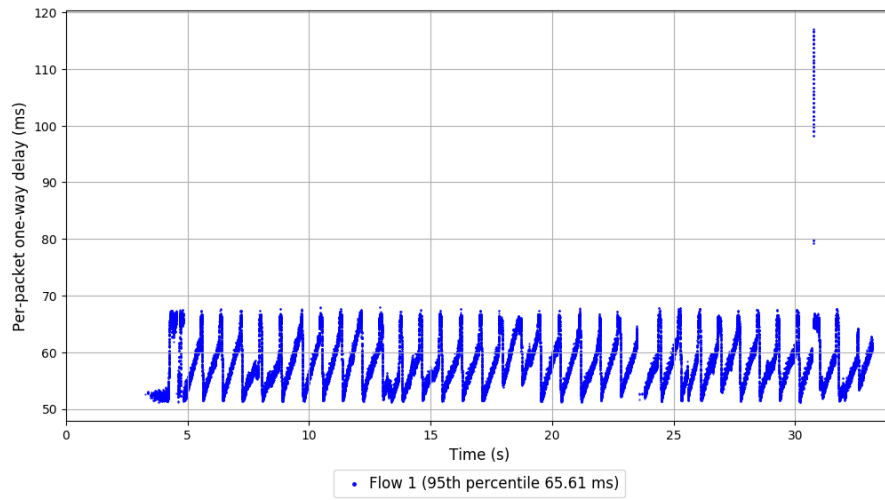
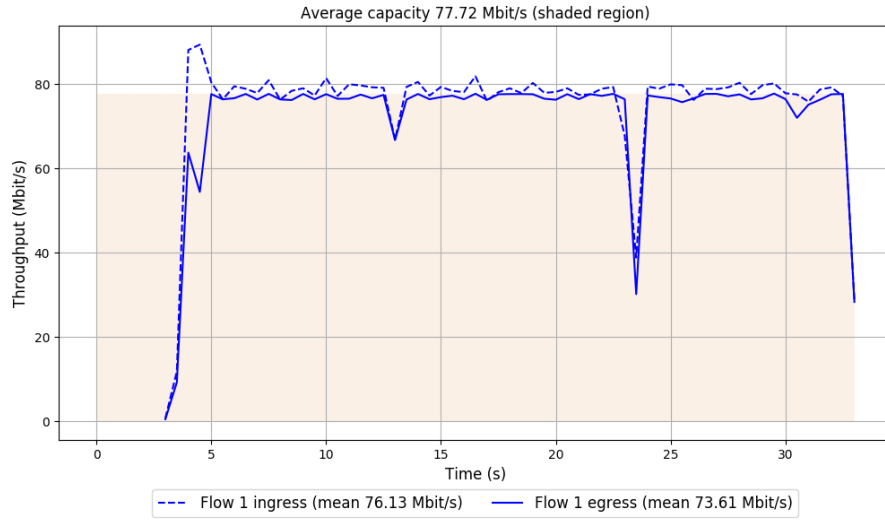
-- Flow 1:

Average throughput: 73.61 Mbit/s

95th percentile per-packet one-way delay: 65.610 ms

Loss rate: 3.48%

### Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-27 07:54:42

End at: 2018-02-27 07:55:12

# Below is generated by plot.py at 2018-02-27 08:07:06

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 73.48 Mbit/s (94.5% utilization)

95th percentile per-packet one-way delay: 65.674 ms

Loss rate: 2.93%

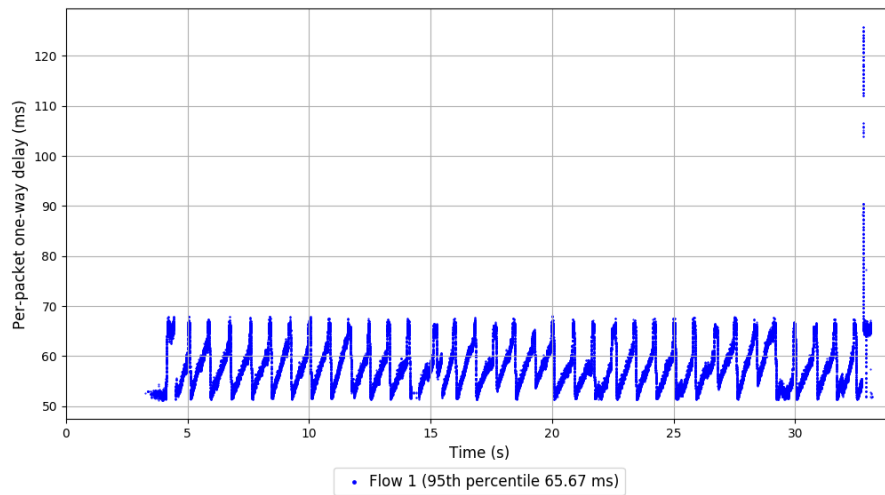
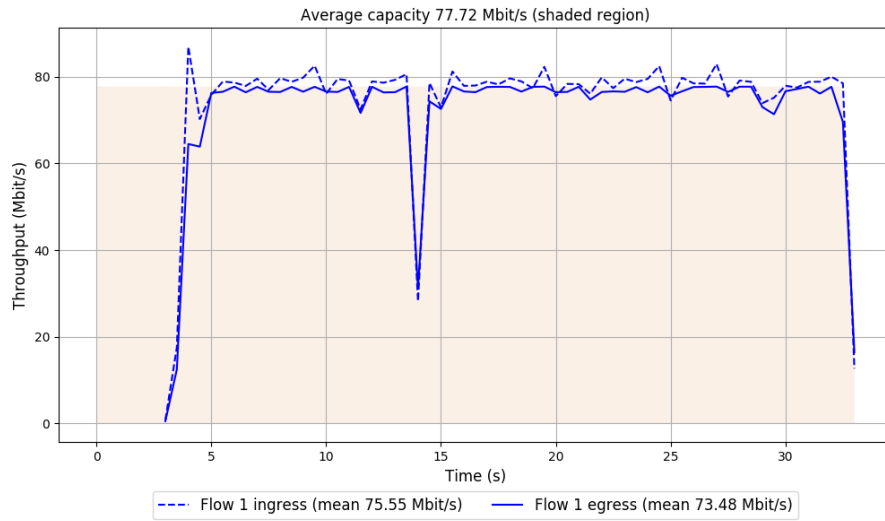
-- Flow 1:

Average throughput: 73.48 Mbit/s

95th percentile per-packet one-way delay: 65.674 ms

Loss rate: 2.93%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-27 06:14:18

End at: 2018-02-27 06:14:48

# Below is generated by plot.py at 2018-02-27 08:07:06

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 8.85 Mbit/s (11.4% utilization)

95th percentile per-packet one-way delay: 54.130 ms

Loss rate: 0.97%

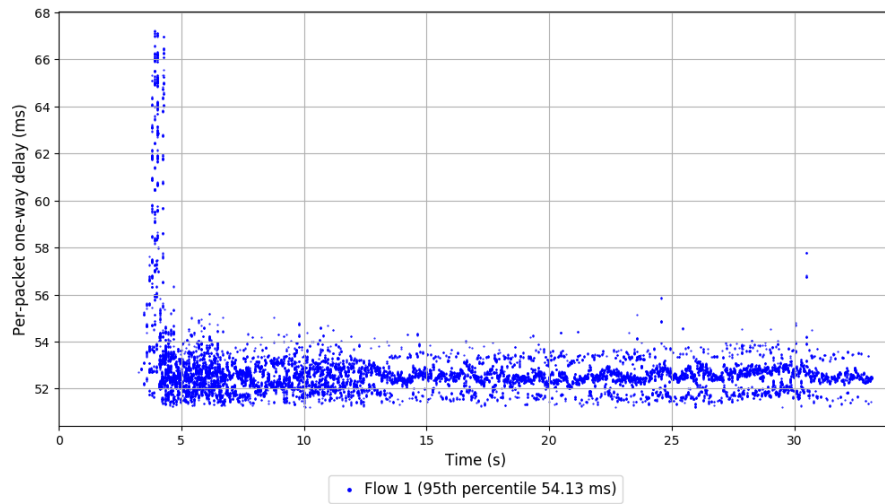
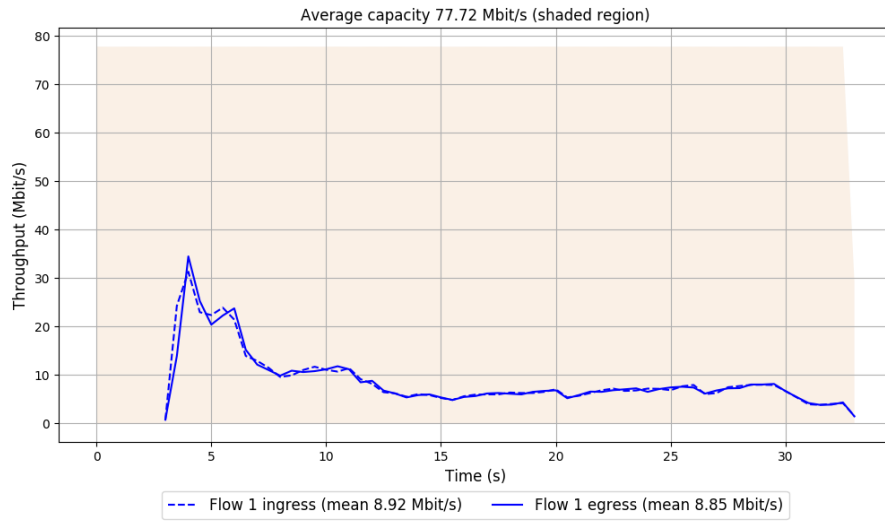
-- Flow 1:

Average throughput: 8.85 Mbit/s

95th percentile per-packet one-way delay: 54.130 ms

Loss rate: 0.97%

# Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-27 06:25:51

End at: 2018-02-27 06:26:21

# Below is generated by plot.py at 2018-02-27 08:07:06

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 7.30 Mbit/s (9.4% utilization)

95th percentile per-packet one-way delay: 54.381 ms

Loss rate: 1.73%

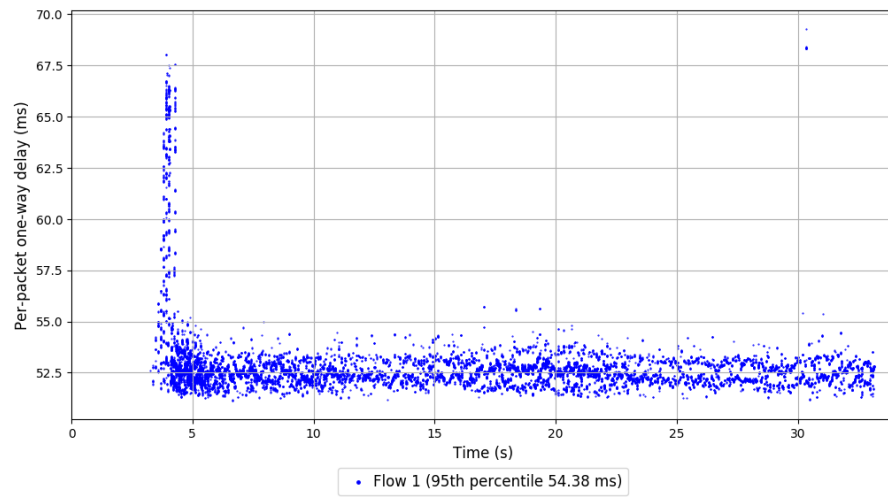
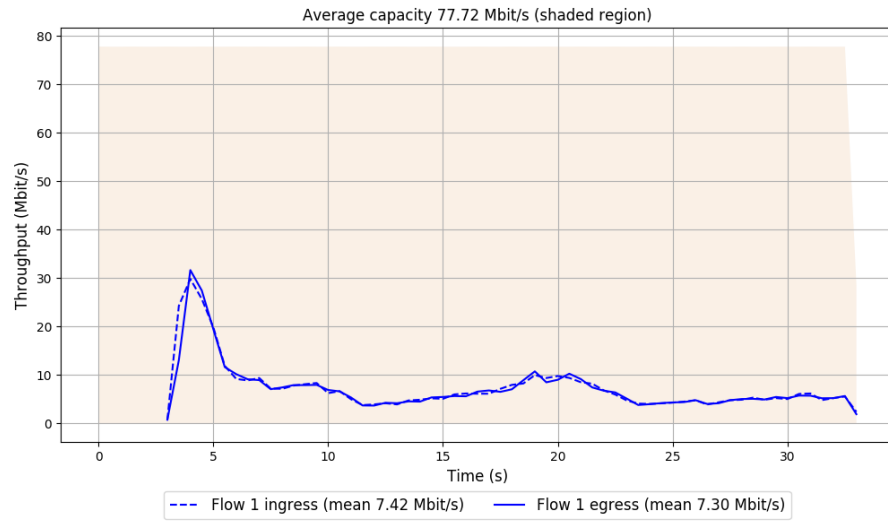
-- Flow 1:

Average throughput: 7.30 Mbit/s

95th percentile per-packet one-way delay: 54.381 ms

Loss rate: 1.73%

## Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-27 06:37:24

End at: 2018-02-27 06:37:54

# Below is generated by plot.py at 2018-02-27 08:07:06

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 10.36 Mbit/s (13.3% utilization)

95th percentile per-packet one-way delay: 54.442 ms

Loss rate: 1.78%

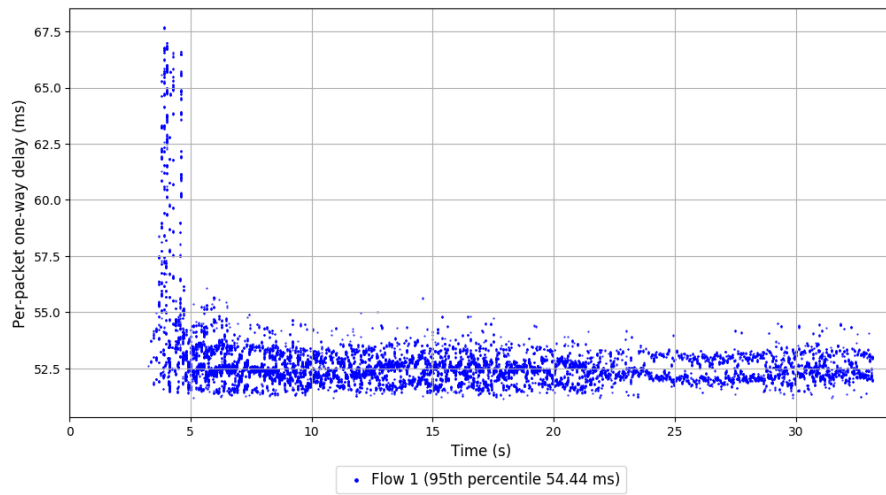
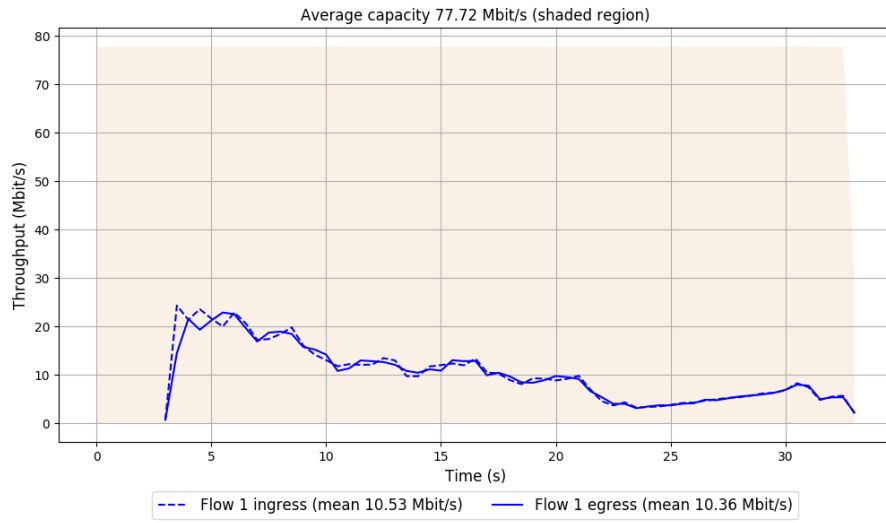
-- Flow 1:

Average throughput: 10.36 Mbit/s

95th percentile per-packet one-way delay: 54.442 ms

Loss rate: 1.78%

### Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-27 06:48:54

End at: 2018-02-27 06:49:24

# Below is generated by plot.py at 2018-02-27 08:07:06

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 11.90 Mbit/s (15.3% utilization)

95th percentile per-packet one-way delay: 54.026 ms

Loss rate: 0.95%

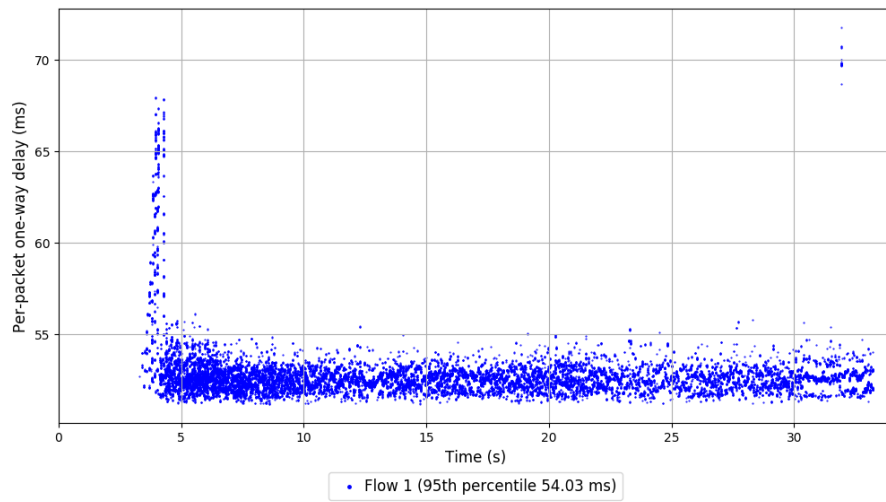
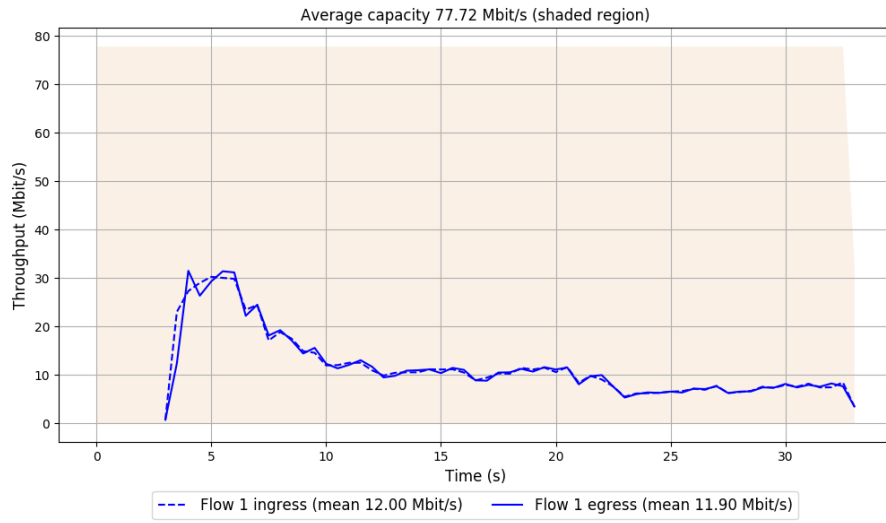
-- Flow 1:

Average throughput: 11.90 Mbit/s

95th percentile per-packet one-way delay: 54.026 ms

Loss rate: 0.95%

### Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-27 07:00:24

End at: 2018-02-27 07:00:54

# Below is generated by plot.py at 2018-02-27 08:07:06

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 8.29 Mbit/s (10.7% utilization)

95th percentile per-packet one-way delay: 54.468 ms

Loss rate: 1.62%

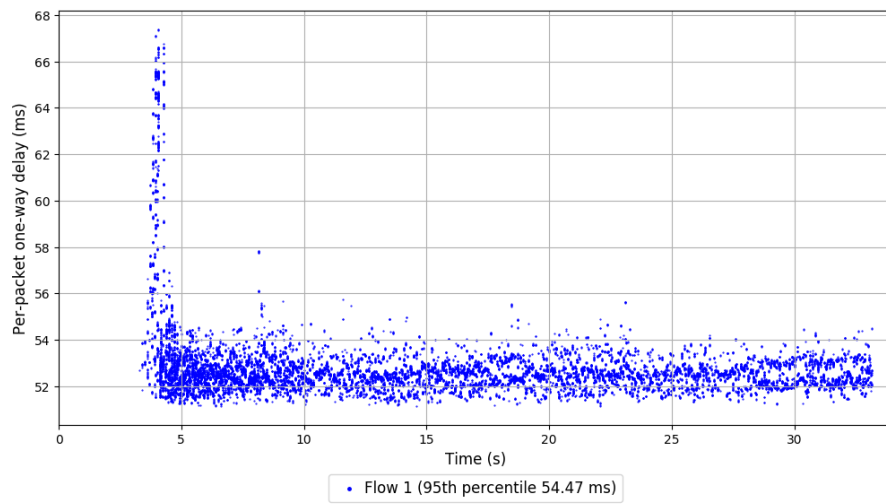
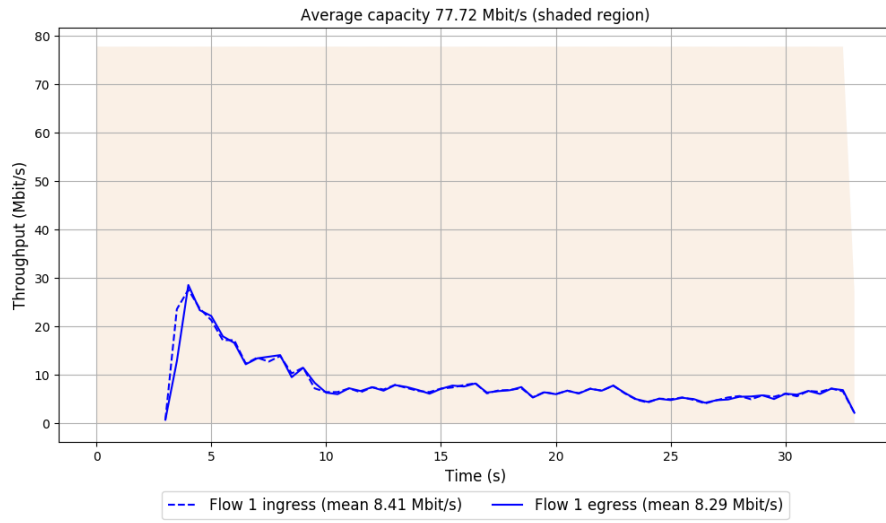
-- Flow 1:

Average throughput: 8.29 Mbit/s

95th percentile per-packet one-way delay: 54.468 ms

Loss rate: 1.62%

### Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-27 07:11:43

End at: 2018-02-27 07:12:13

# Below is generated by plot.py at 2018-02-27 08:07:06

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 10.08 Mbit/s (13.0% utilization)

95th percentile per-packet one-way delay: 53.872 ms

Loss rate: 1.03%

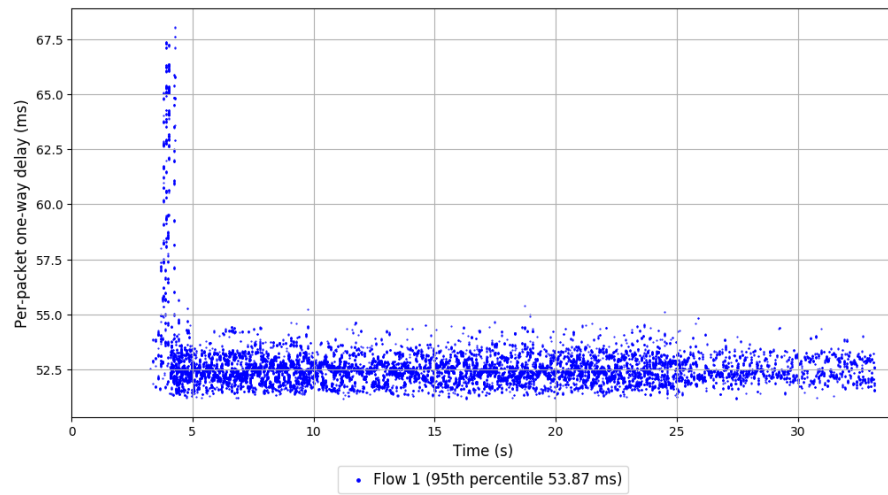
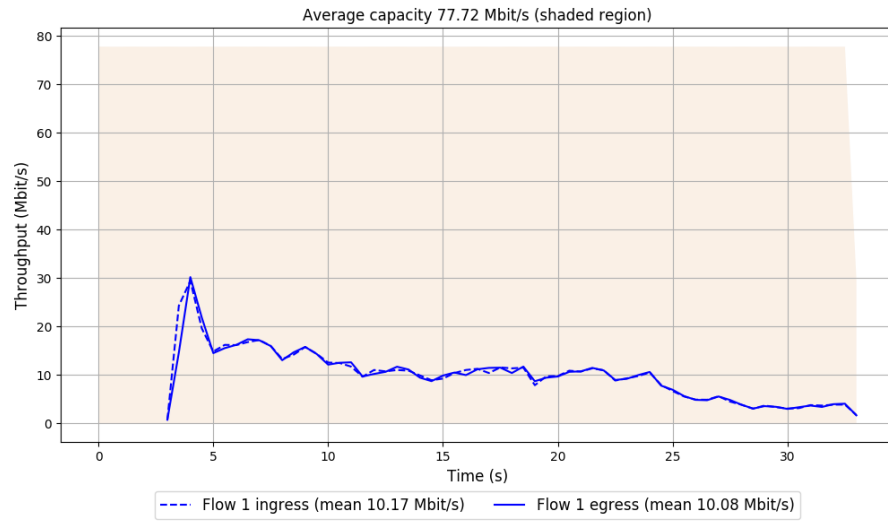
-- Flow 1:

Average throughput: 10.08 Mbit/s

95th percentile per-packet one-way delay: 53.872 ms

Loss rate: 1.03%

## Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

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

End at: 2018-02-27 07:23:44

# Below is generated by plot.py at 2018-02-27 08:07:06

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 9.49 Mbit/s (12.2% utilization)

95th percentile per-packet one-way delay: 54.407 ms

Loss rate: 1.29%

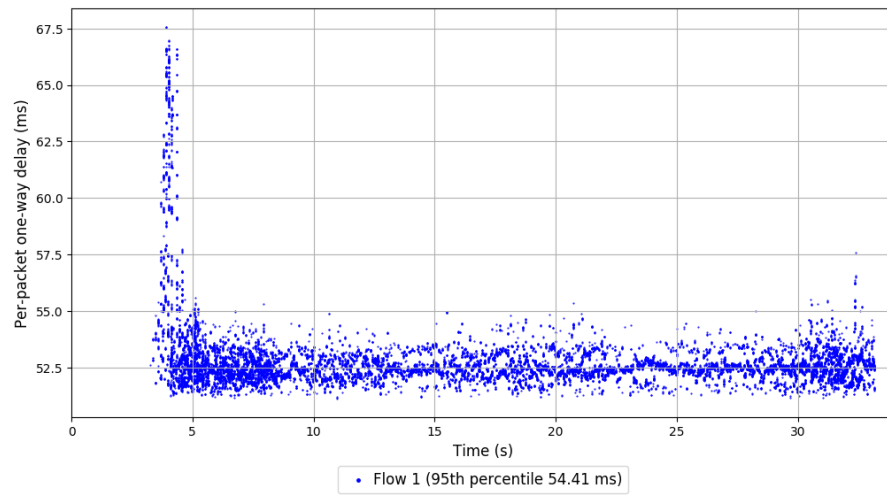
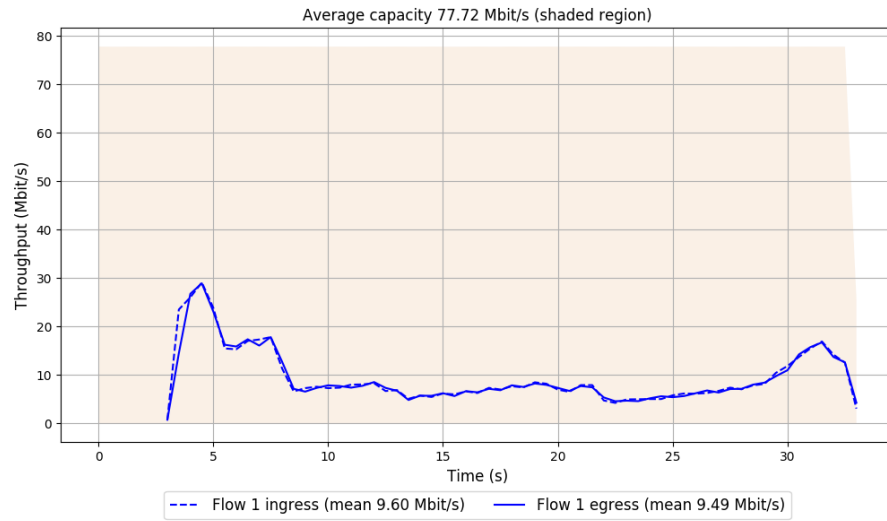
-- Flow 1:

Average throughput: 9.49 Mbit/s

95th percentile per-packet one-way delay: 54.407 ms

Loss rate: 1.29%

### Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-27 07:34:28

End at: 2018-02-27 07:34:58

# Below is generated by plot.py at 2018-02-27 08:07:06

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 9.89 Mbit/s (12.7% utilization)

95th percentile per-packet one-way delay: 53.689 ms

Loss rate: 0.82%

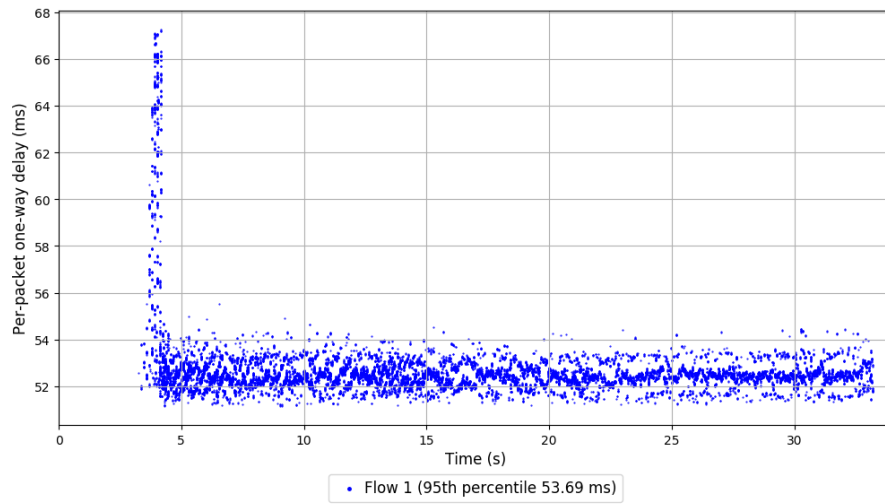
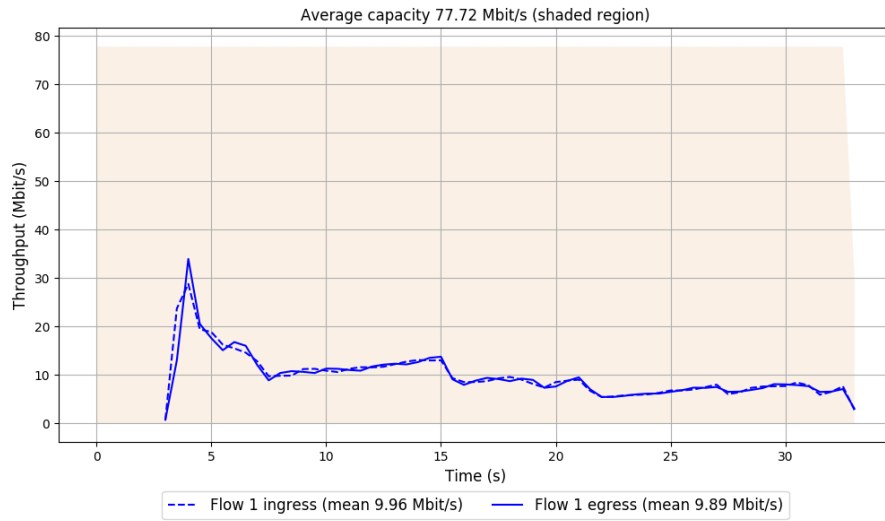
-- Flow 1:

Average throughput: 9.89 Mbit/s

95th percentile per-packet one-way delay: 53.689 ms

Loss rate: 0.82%

### Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-27 07:45:58

End at: 2018-02-27 07:46:28

# Below is generated by plot.py at 2018-02-27 08:07:06

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 8.83 Mbit/s (11.4% utilization)

95th percentile per-packet one-way delay: 54.172 ms

Loss rate: 0.97%

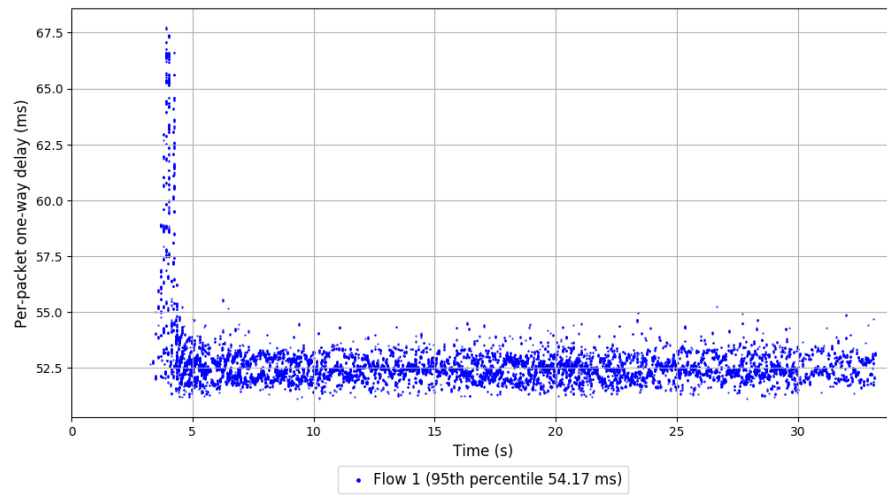
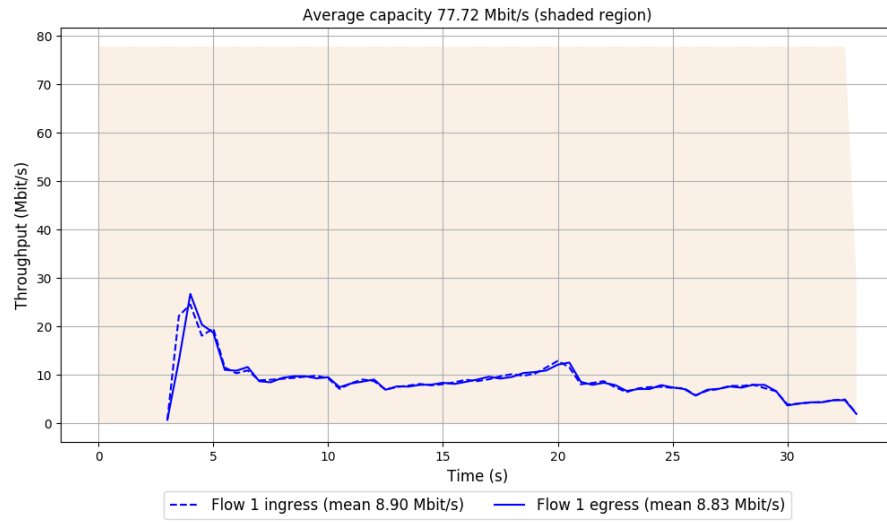
-- Flow 1:

Average throughput: 8.83 Mbit/s

95th percentile per-packet one-way delay: 54.172 ms

Loss rate: 0.97%

### Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

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

End at: 2018-02-27 07:57:56

# Below is generated by plot.py at 2018-02-27 08:07:06

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 7.12 Mbit/s (9.2% utilization)

95th percentile per-packet one-way delay: 54.991 ms

Loss rate: 1.53%

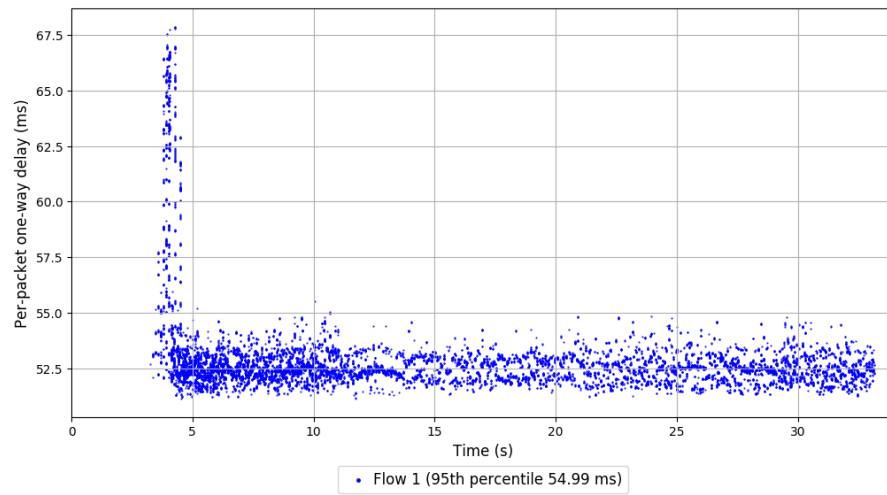
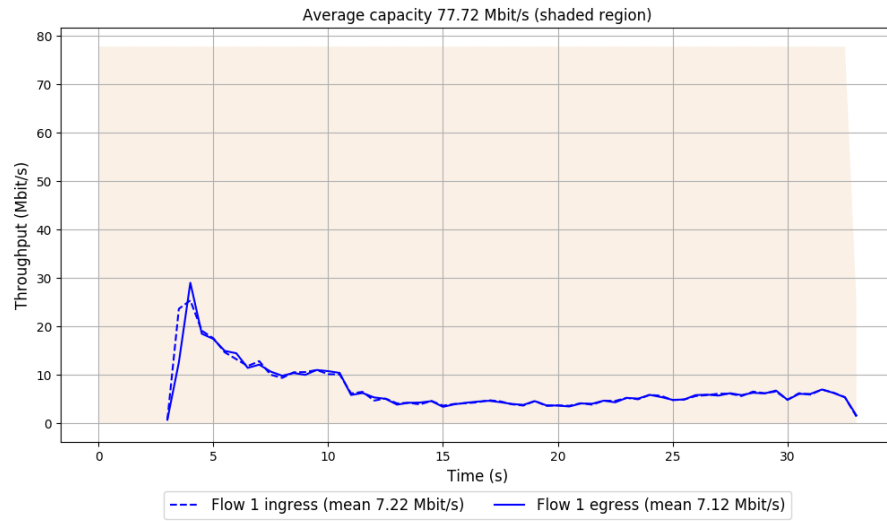
-- Flow 1:

Average throughput: 7.12 Mbit/s

95th percentile per-packet one-way delay: 54.991 ms

Loss rate: 1.53%

### Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of LEDBAT

Start at: 2018-02-27 06:15:28

End at: 2018-02-27 06:15:58

# Below is generated by plot.py at 2018-02-27 08:07:06

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 7.19 Mbit/s (9.2% utilization)

95th percentile per-packet one-way delay: 54.608 ms

Loss rate: 0.08%

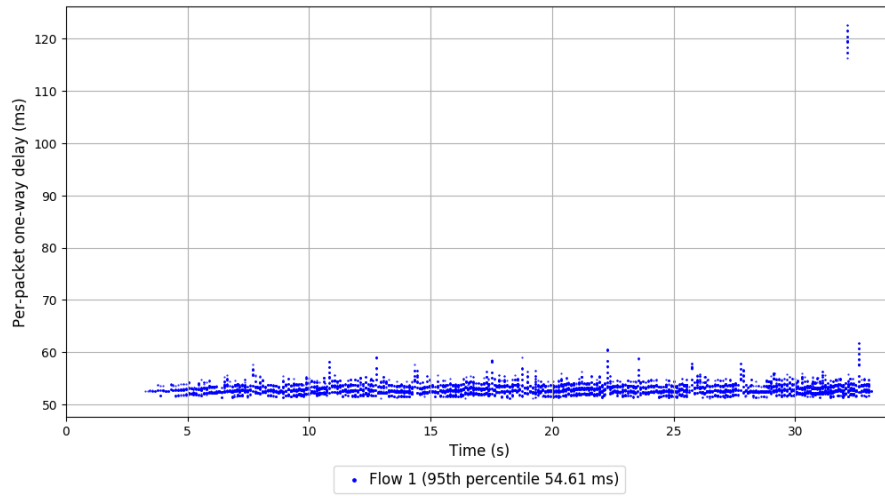
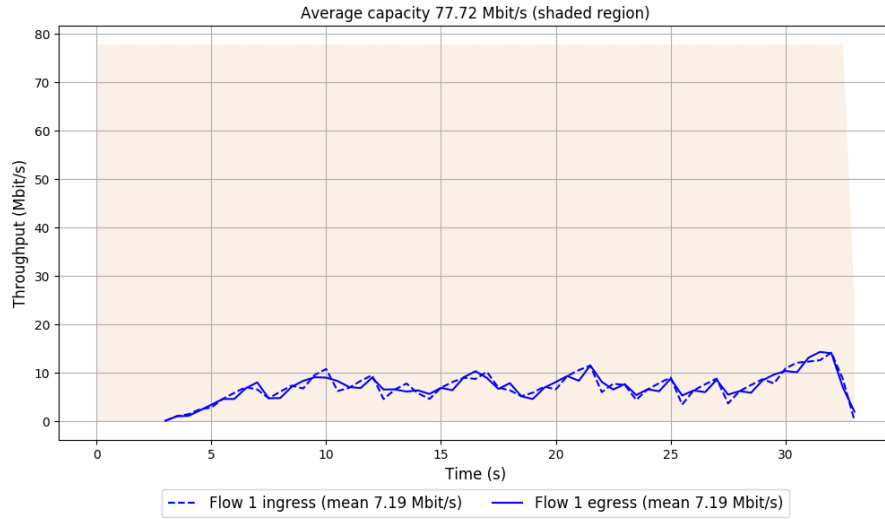
-- Flow 1:

Average throughput: 7.19 Mbit/s

95th percentile per-packet one-way delay: 54.608 ms

Loss rate: 0.08%

# Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

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

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

# Below is generated by plot.py at 2018-02-27 08:07:06

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 7.23 Mbit/s (9.3% utilization)

95th percentile per-packet one-way delay: 54.587 ms

Loss rate: 0.66%

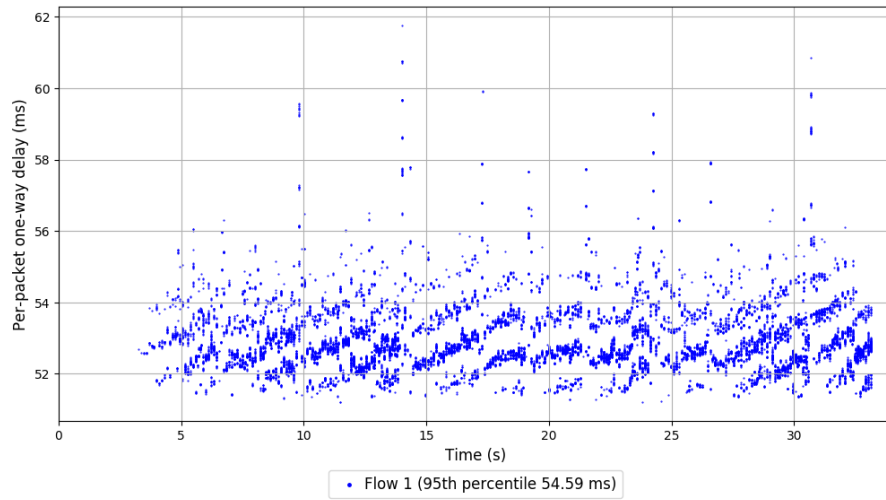
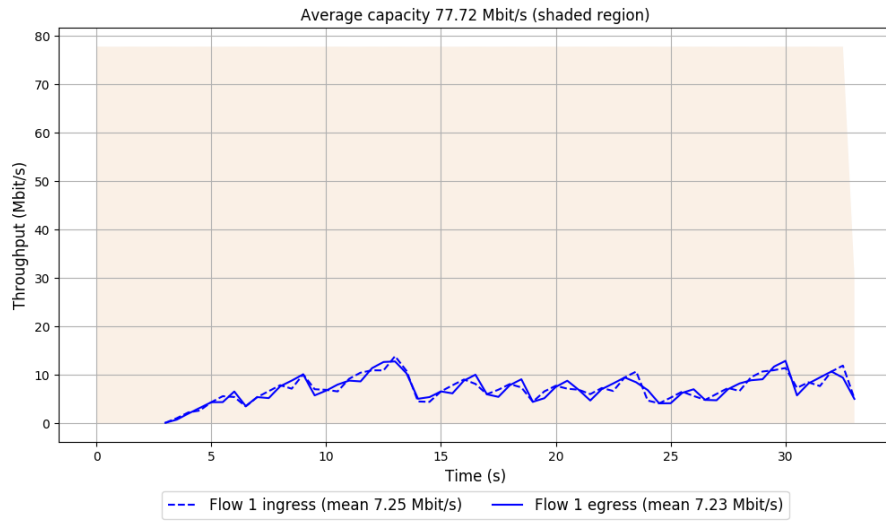
-- Flow 1:

Average throughput: 7.23 Mbit/s

95th percentile per-packet one-way delay: 54.587 ms

Loss rate: 0.66%

## Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

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

End at: 2018-02-27 06:39:04

# Below is generated by plot.py at 2018-02-27 08:07:18

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 7.78 Mbit/s (10.0% utilization)

95th percentile per-packet one-way delay: 54.603 ms

Loss rate: 0.06%

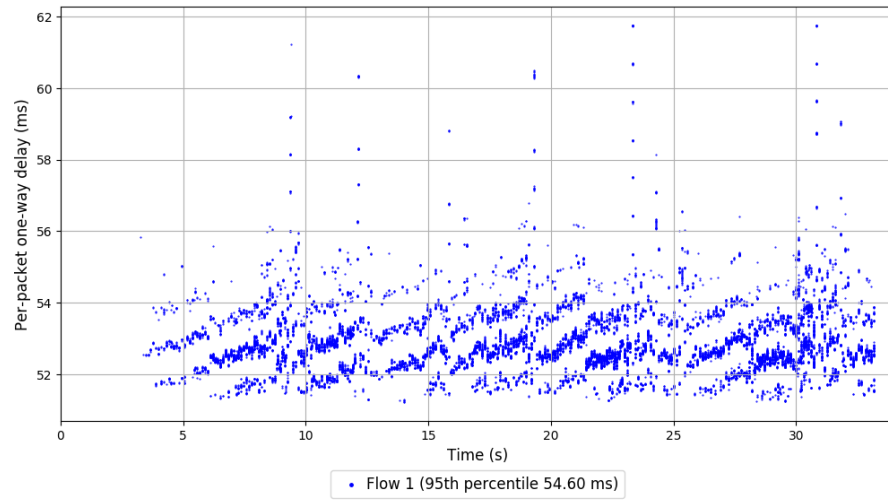
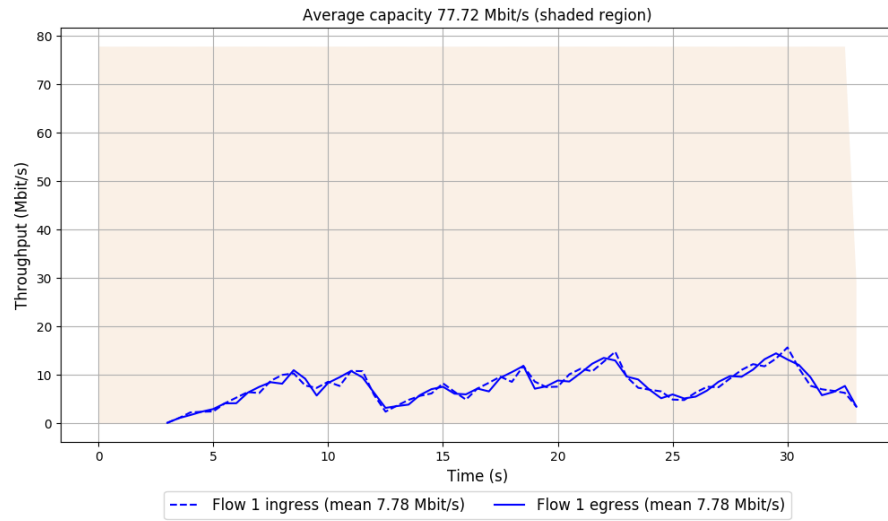
-- Flow 1:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.603 ms

Loss rate: 0.06%

### Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-27 06:50:04

End at: 2018-02-27 06:50:34

# Below is generated by plot.py at 2018-02-27 08:07:20

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 7.66 Mbit/s (9.9% utilization)

95th percentile per-packet one-way delay: 54.564 ms

Loss rate: 0.06%

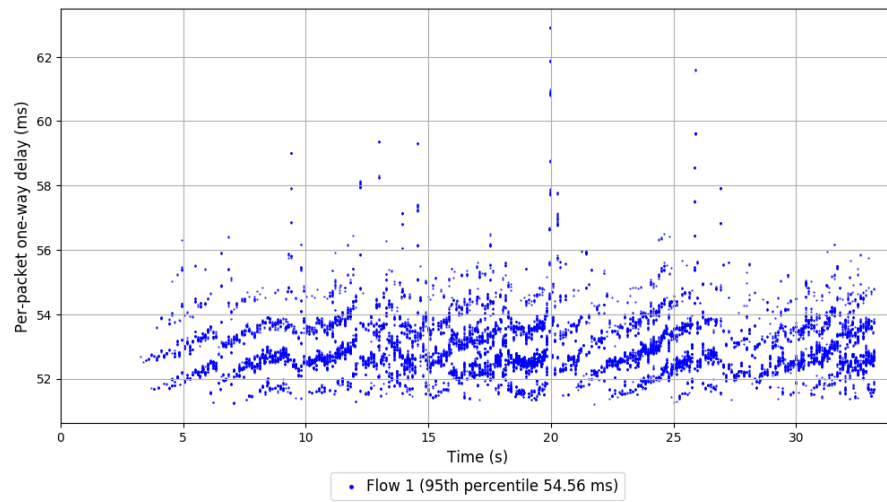
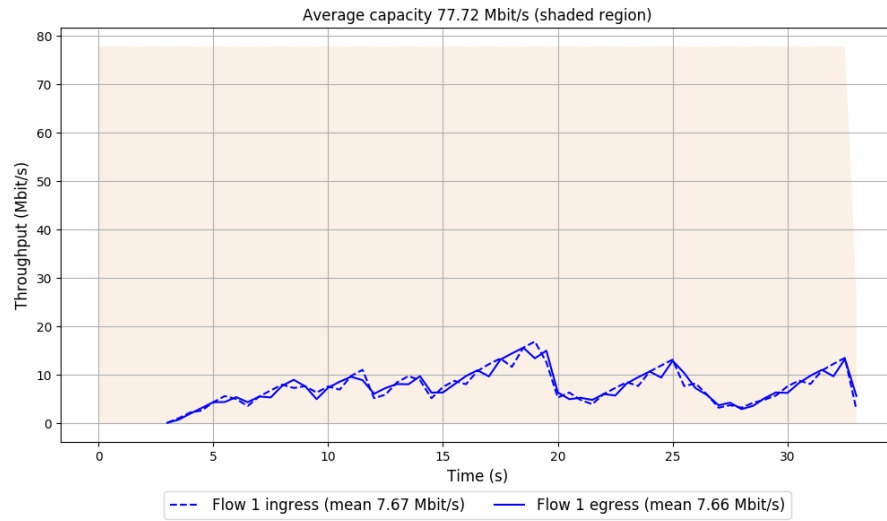
-- Flow 1:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 54.564 ms

Loss rate: 0.06%

### Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-27 07:01:34

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

# Below is generated by plot.py at 2018-02-27 08:07:23

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 9.68 Mbit/s (12.5% utilization)

95th percentile per-packet one-way delay: 54.699 ms

Loss rate: 0.06%

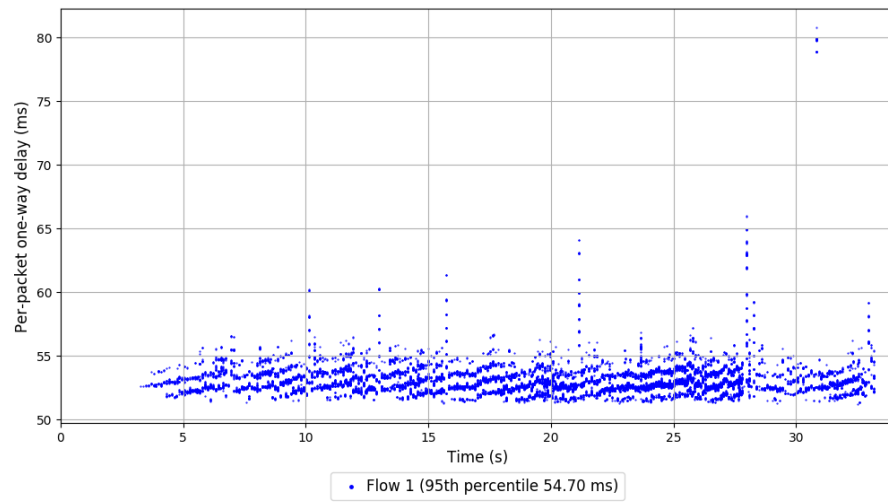
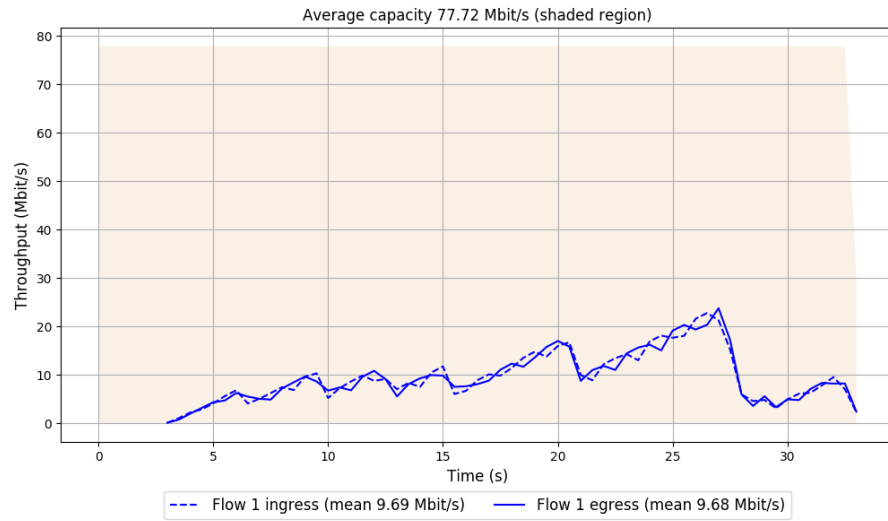
-- Flow 1:

Average throughput: 9.68 Mbit/s

95th percentile per-packet one-way delay: 54.699 ms

Loss rate: 0.06%

## Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-27 07:12:54

End at: 2018-02-27 07:13:24

# Below is generated by plot.py at 2018-02-27 08:07:23

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 7.37 Mbit/s (9.5% utilization)

95th percentile per-packet one-way delay: 54.510 ms

Loss rate: 0.59%

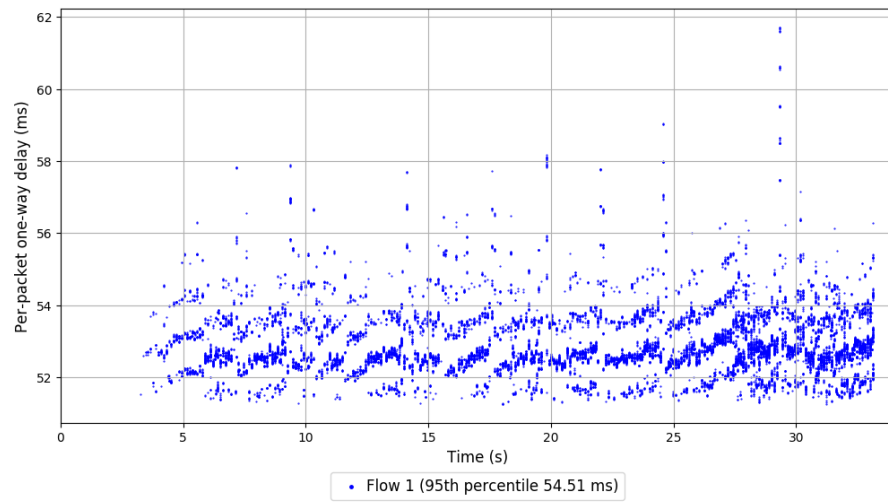
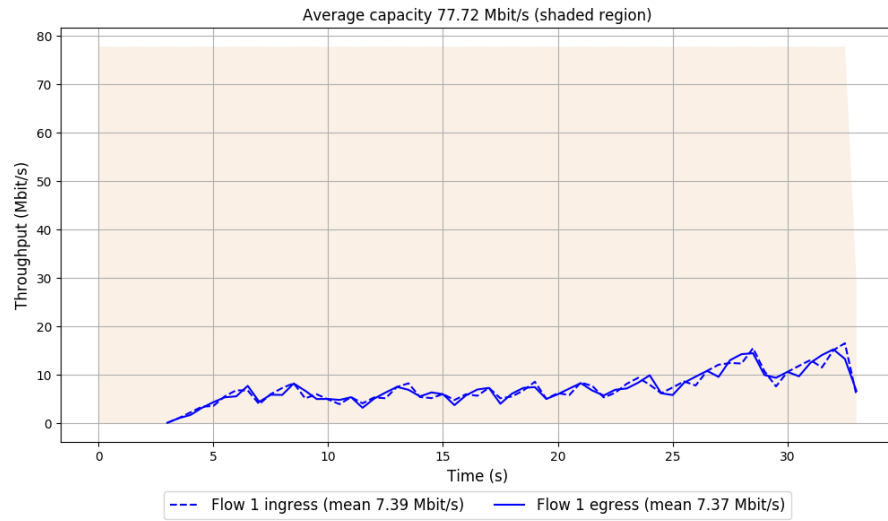
-- Flow 1:

Average throughput: 7.37 Mbit/s

95th percentile per-packet one-way delay: 54.510 ms

Loss rate: 0.59%

## Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-27 07:24:25

End at: 2018-02-27 07:24:55

# Below is generated by plot.py at 2018-02-27 08:07:23

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 8.30 Mbit/s (10.7% utilization)

95th percentile per-packet one-way delay: 54.785 ms

Loss rate: 0.05%

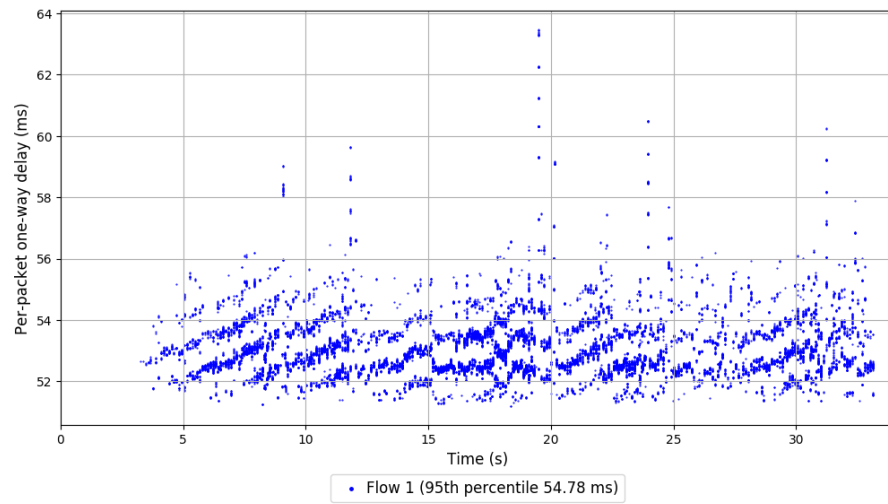
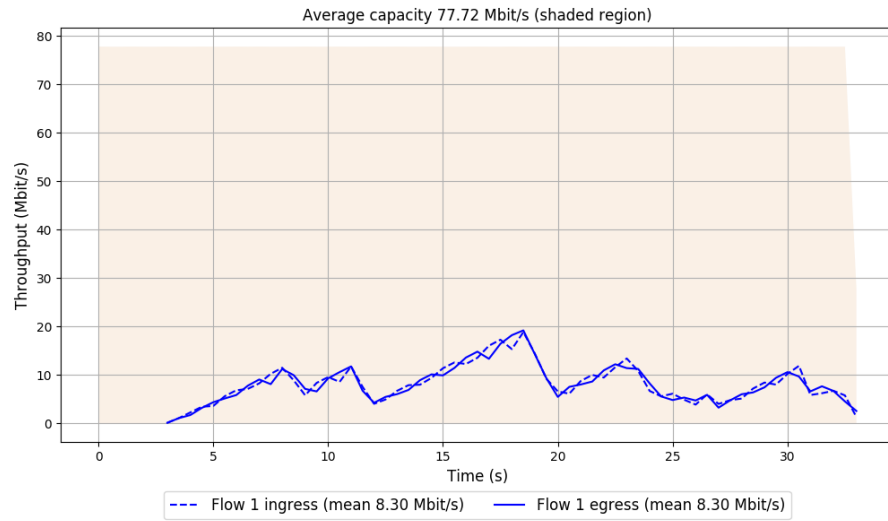
-- Flow 1:

Average throughput: 8.30 Mbit/s

95th percentile per-packet one-way delay: 54.785 ms

Loss rate: 0.05%

## Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-27 07:35:39

End at: 2018-02-27 07:36:09

# Below is generated by plot.py at 2018-02-27 08:07:25

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 9.42 Mbit/s (12.1% utilization)

95th percentile per-packet one-way delay: 54.577 ms

Loss rate: 0.03%

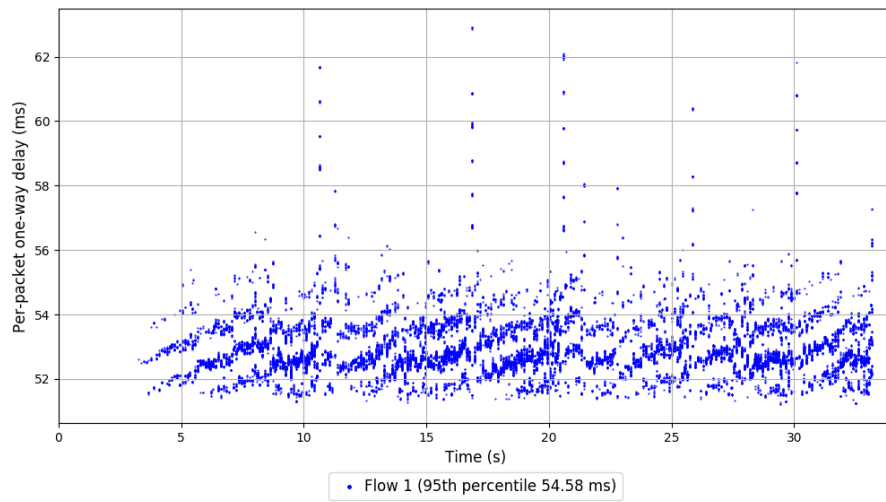
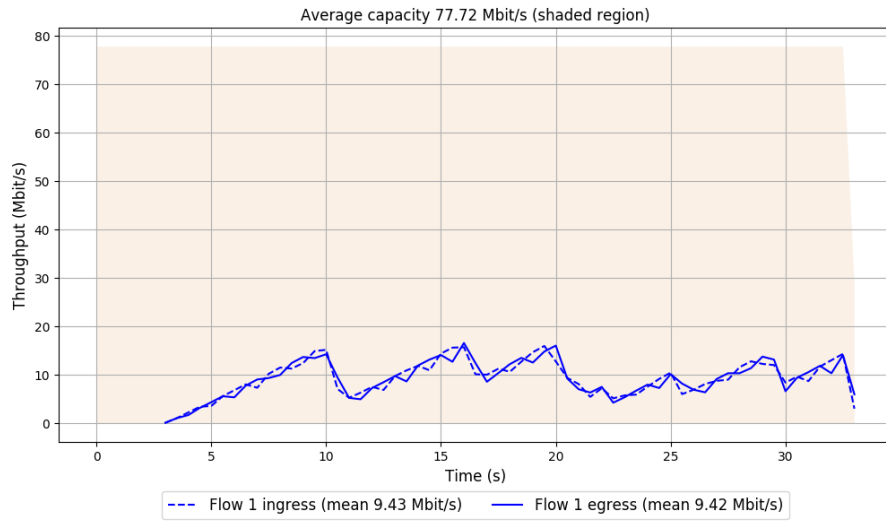
-- Flow 1:

Average throughput: 9.42 Mbit/s

95th percentile per-packet one-way delay: 54.577 ms

Loss rate: 0.03%

## Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-27 07:47:08

End at: 2018-02-27 07:47:38

# Below is generated by plot.py at 2018-02-27 08:07:40

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 7.68 Mbit/s (9.9% utilization)

95th percentile per-packet one-way delay: 54.545 ms

Loss rate: 0.06%

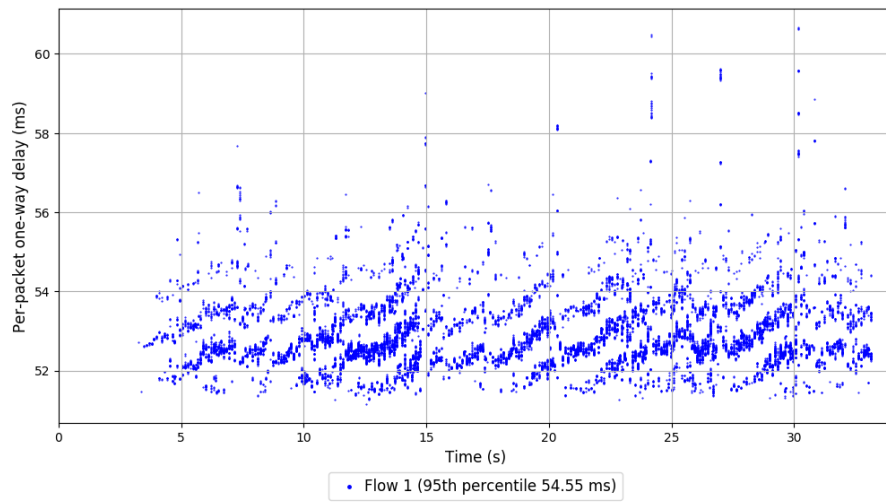
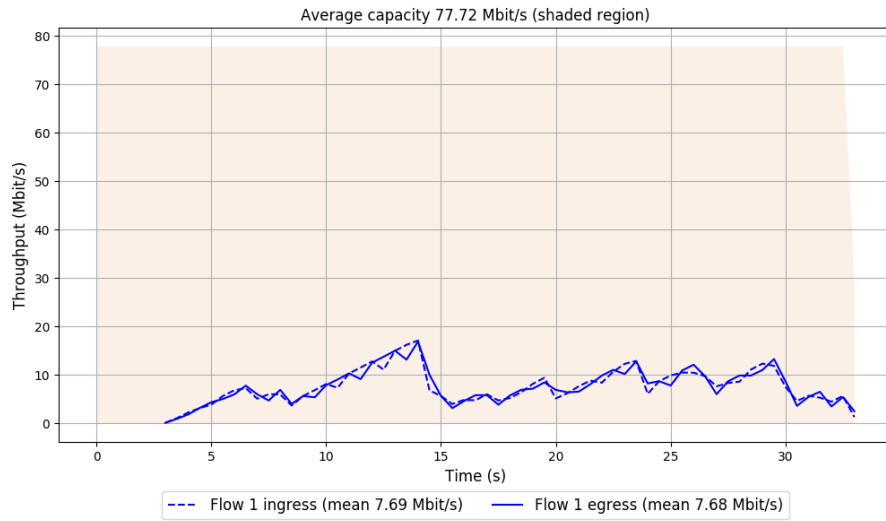
-- Flow 1:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 54.545 ms

Loss rate: 0.06%

## Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-27 07:58:36

End at: 2018-02-27 07:59:06

# Below is generated by plot.py at 2018-02-27 08:07:40

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 6.84 Mbit/s (8.8% utilization)

95th percentile per-packet one-way delay: 54.460 ms

Loss rate: 0.26%

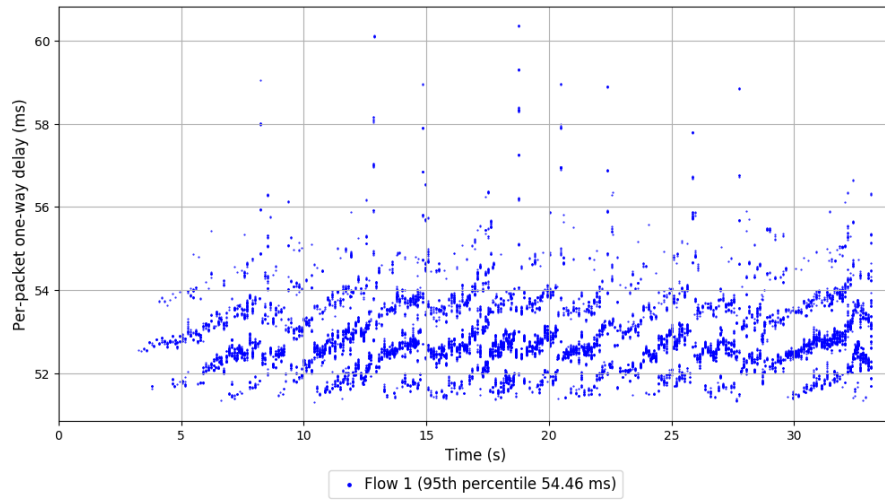
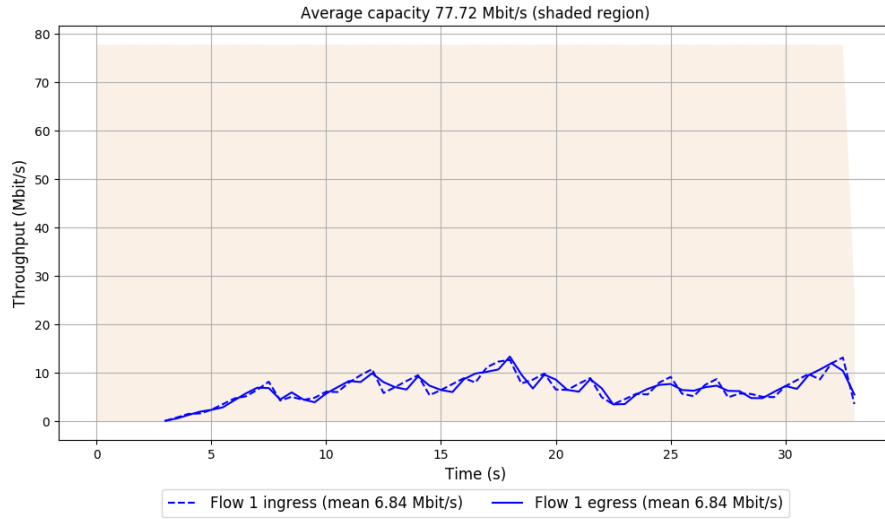
-- Flow 1:

Average throughput: 6.84 Mbit/s

95th percentile per-packet one-way delay: 54.460 ms

Loss rate: 0.26%

# Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

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

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

# Below is generated by plot.py at 2018-02-27 08:08:56

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 70.90 Mbit/s (91.2% utilization)

95th percentile per-packet one-way delay: 60.805 ms

Loss rate: 1.66%

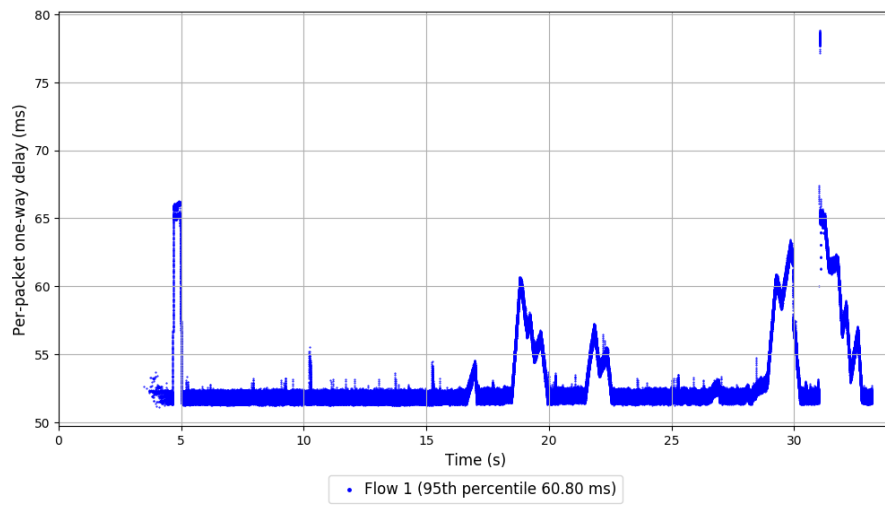
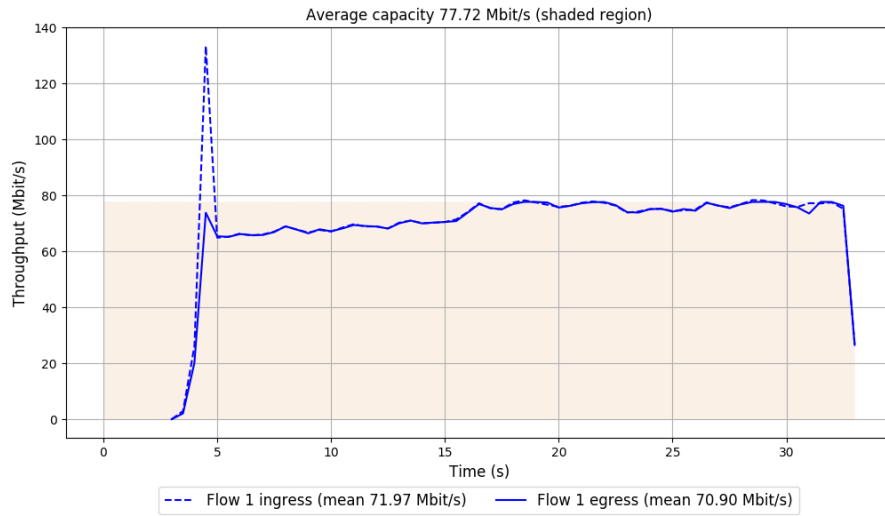
-- Flow 1:

Average throughput: 70.90 Mbit/s

95th percentile per-packet one-way delay: 60.805 ms

Loss rate: 1.66%

# Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-27 06:21:04

End at: 2018-02-27 06:21:34

# Below is generated by plot.py at 2018-02-27 08:08:57

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 71.60 Mbit/s (92.1% utilization)

95th percentile per-packet one-way delay: 62.301 ms

Loss rate: 1.75%

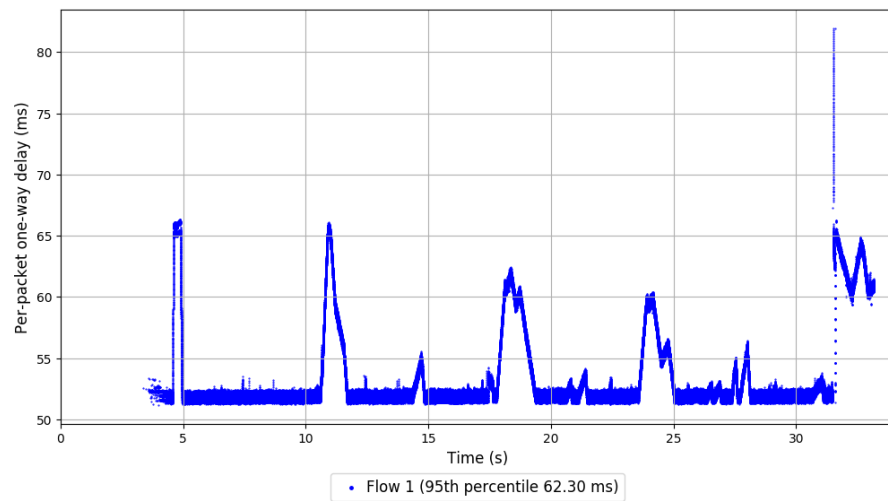
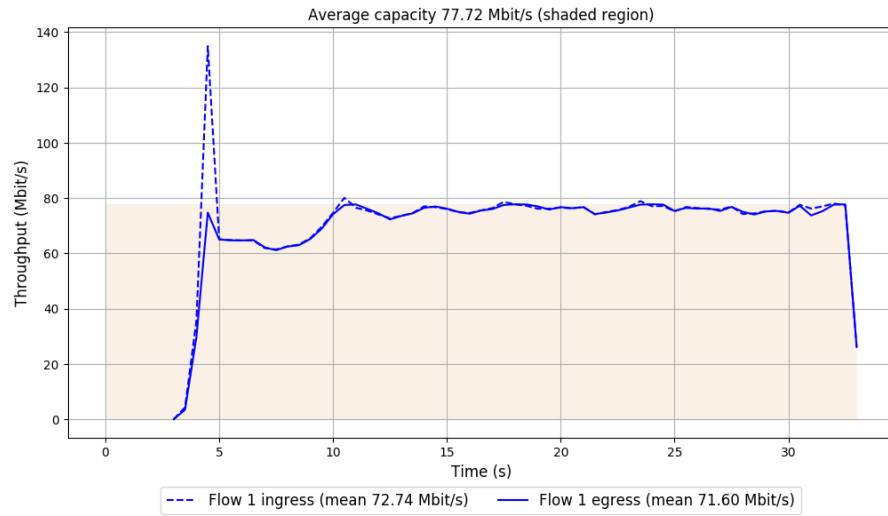
-- Flow 1:

Average throughput: 71.60 Mbit/s

95th percentile per-packet one-way delay: 62.301 ms

Loss rate: 1.75%

## Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-27 06:32:42

End at: 2018-02-27 06:33:12

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

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 71.33 Mbit/s (91.8% utilization)

95th percentile per-packet one-way delay: 61.759 ms

Loss rate: 1.77%

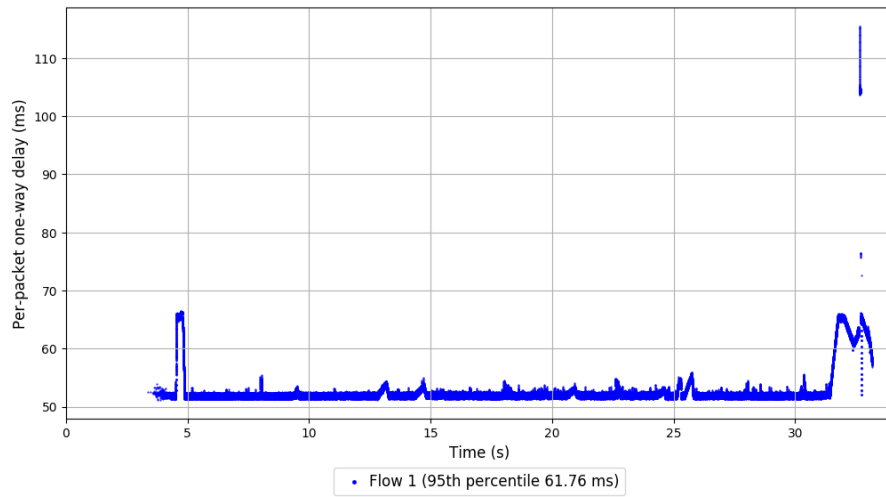
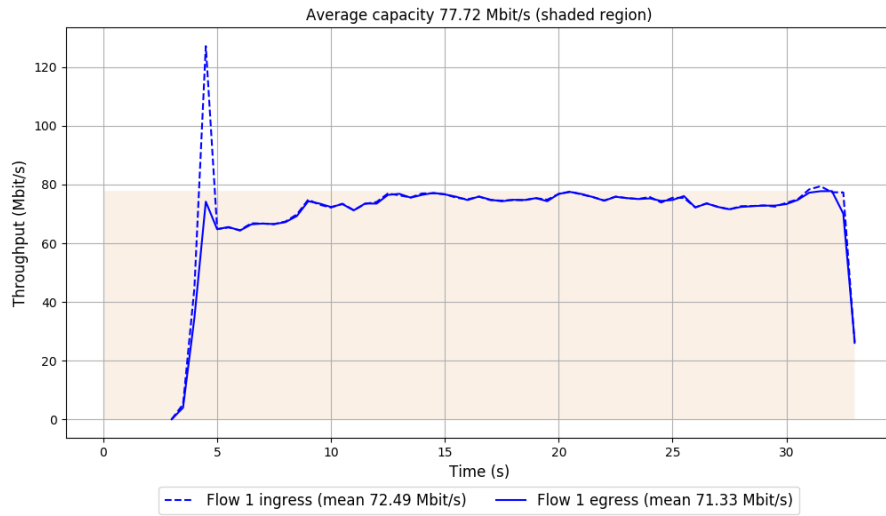
-- Flow 1:

Average throughput: 71.33 Mbit/s

95th percentile per-packet one-way delay: 61.759 ms

Loss rate: 1.77%

### Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-27 06:44:11

End at: 2018-02-27 06:44:41

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

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 71.13 Mbit/s (91.5% utilization)

95th percentile per-packet one-way delay: 57.547 ms

Loss rate: 1.63%

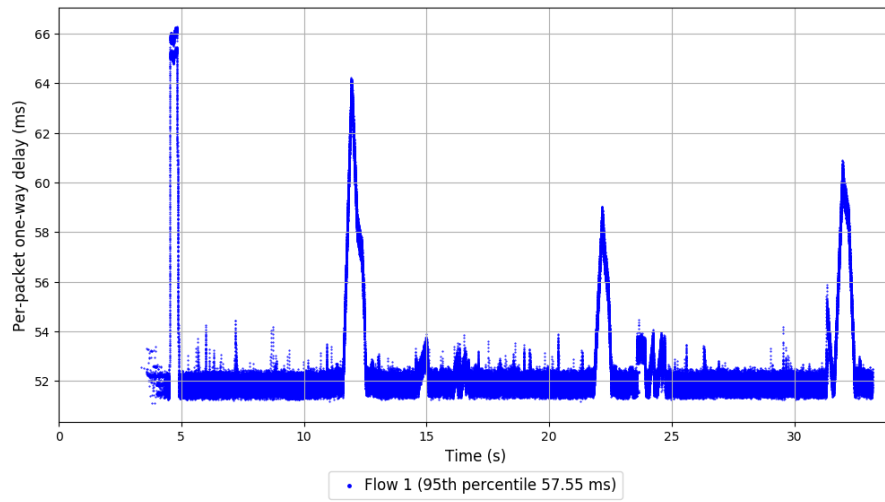
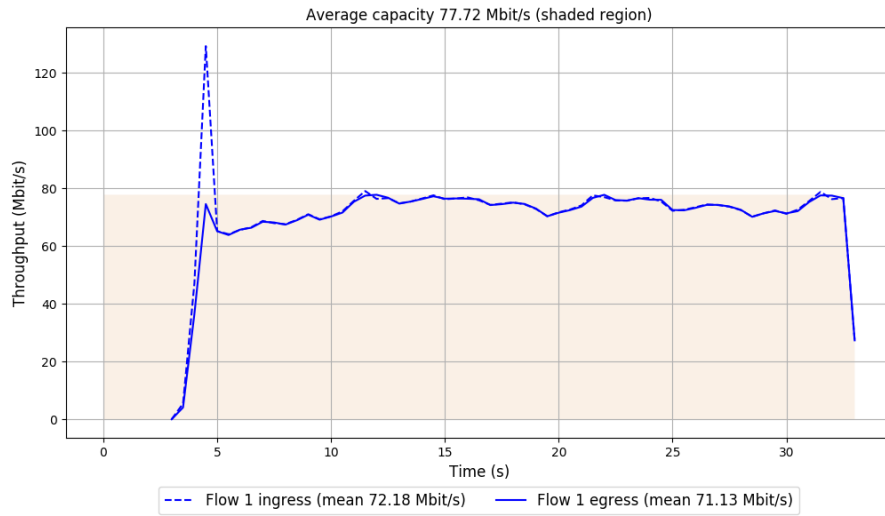
-- Flow 1:

Average throughput: 71.13 Mbit/s

95th percentile per-packet one-way delay: 57.547 ms

Loss rate: 1.63%

### Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-27 06:55:42

End at: 2018-02-27 06:56:12

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

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 71.72 Mbit/s (92.3% utilization)

95th percentile per-packet one-way delay: 57.873 ms

Loss rate: 1.66%

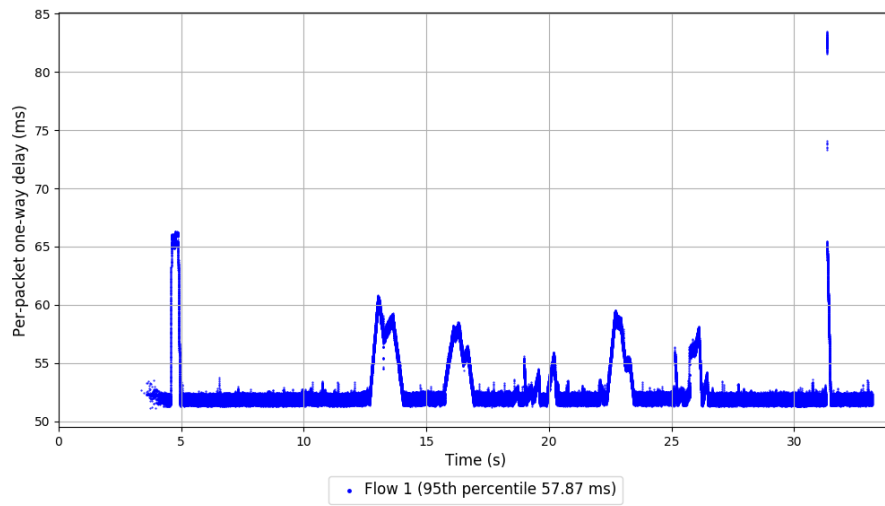
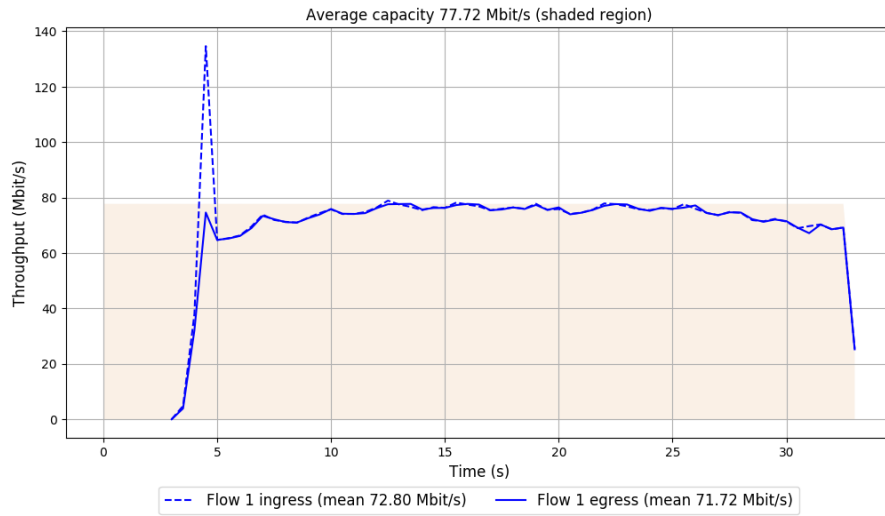
-- Flow 1:

Average throughput: 71.72 Mbit/s

95th percentile per-packet one-way delay: 57.873 ms

Loss rate: 1.66%

### Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

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

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

# Below is generated by plot.py at 2018-02-27 08:09:10

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 72.37 Mbit/s (93.1% utilization)

95th percentile per-packet one-way delay: 59.405 ms

Loss rate: 1.67%

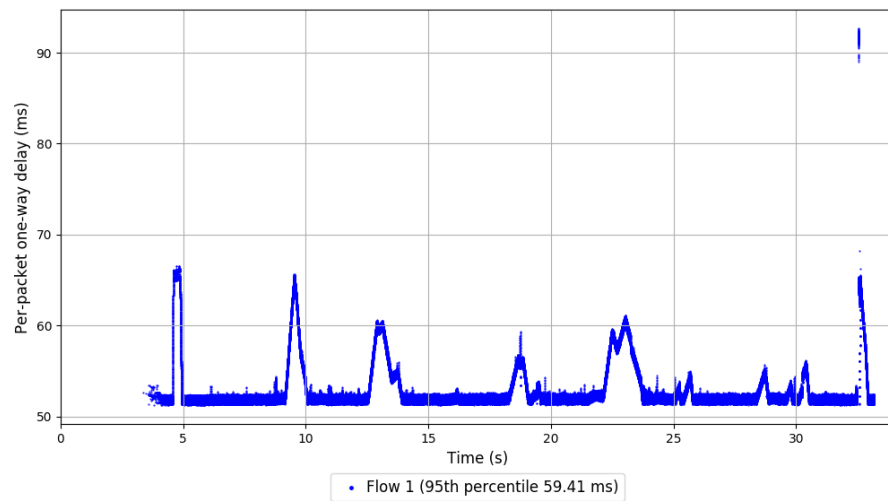
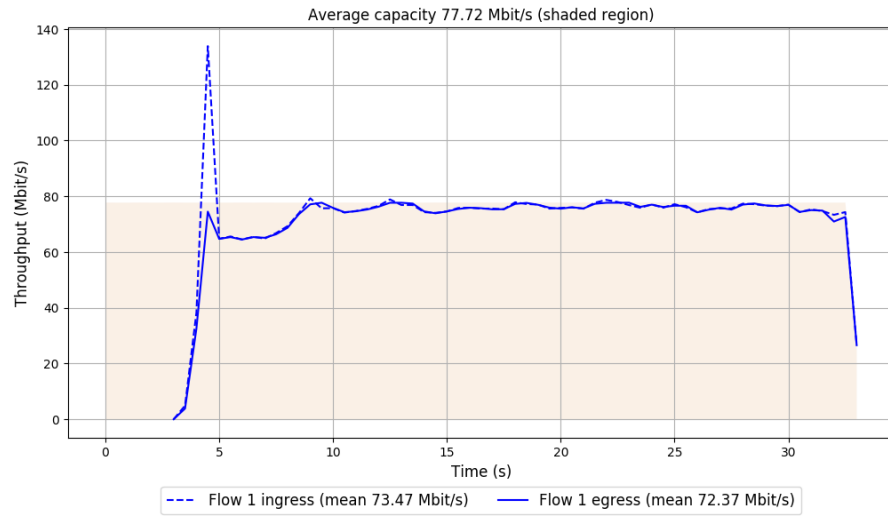
-- Flow 1:

Average throughput: 72.37 Mbit/s

95th percentile per-packet one-way delay: 59.405 ms

Loss rate: 1.67%

## Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-27 07:18:34

End at: 2018-02-27 07:19:04

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

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 70.90 Mbit/s (91.2% utilization)

95th percentile per-packet one-way delay: 58.516 ms

Loss rate: 1.59%

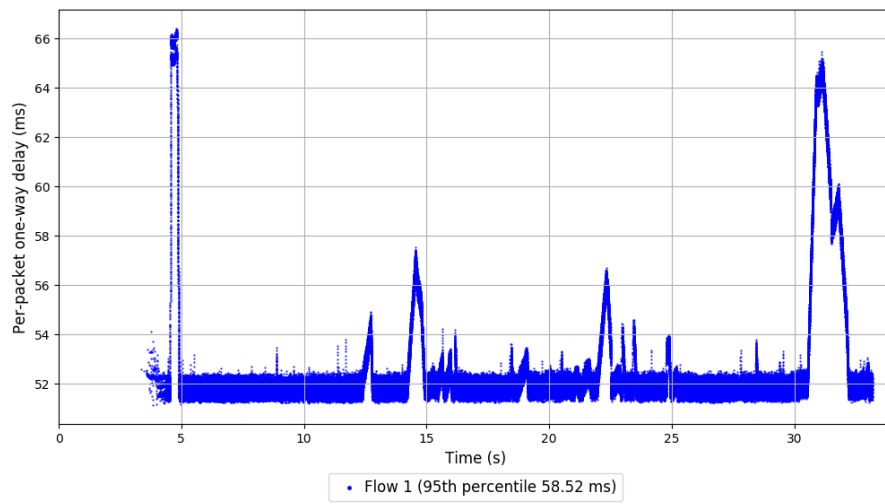
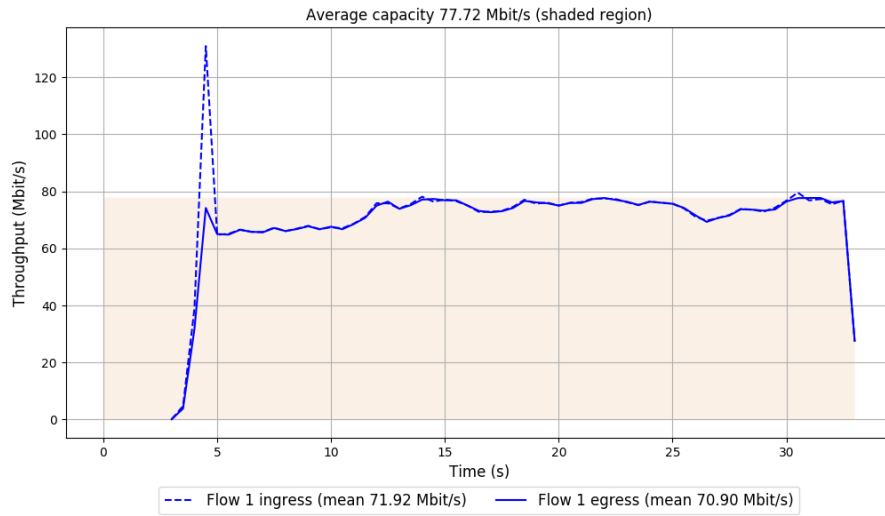
-- Flow 1:

Average throughput: 70.90 Mbit/s

95th percentile per-packet one-way delay: 58.516 ms

Loss rate: 1.59%

### Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-27 07:30:01

End at: 2018-02-27 07:30:31

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

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 70.45 Mbit/s (90.6% utilization)

95th percentile per-packet one-way delay: 59.998 ms

Loss rate: 1.68%

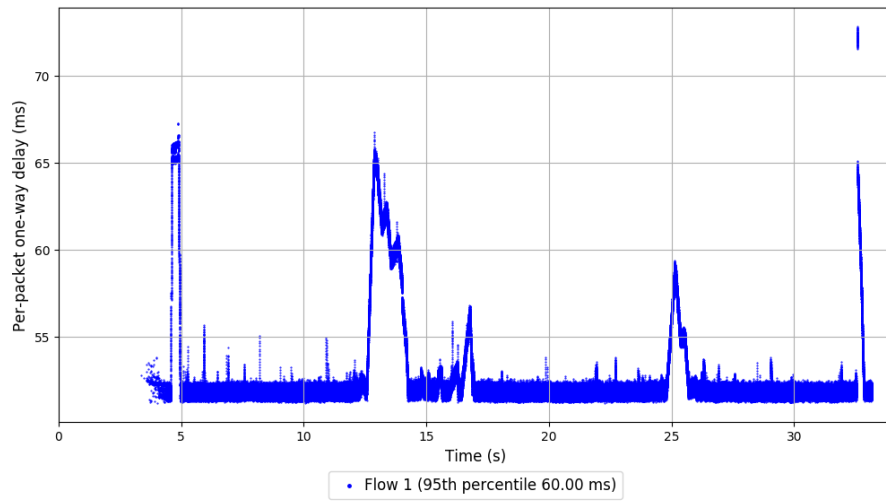
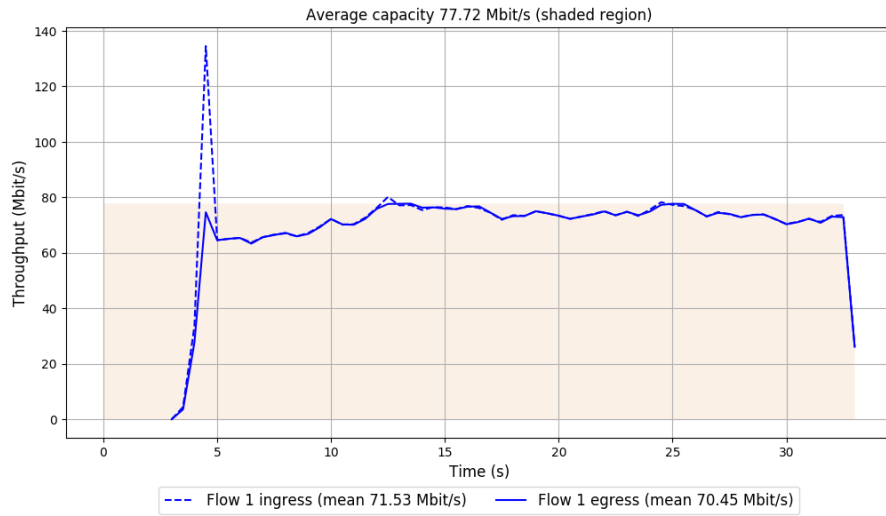
-- Flow 1:

Average throughput: 70.45 Mbit/s

95th percentile per-packet one-way delay: 59.998 ms

Loss rate: 1.68%

### Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-27 07:41:17

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

# Below is generated by plot.py at 2018-02-27 08:10:33

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 71.18 Mbit/s (91.6% utilization)

95th percentile per-packet one-way delay: 59.373 ms

Loss rate: 1.73%

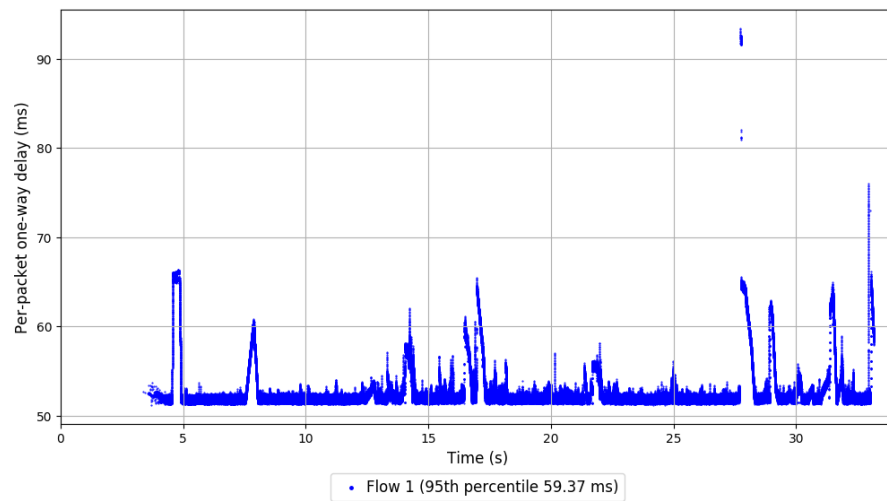
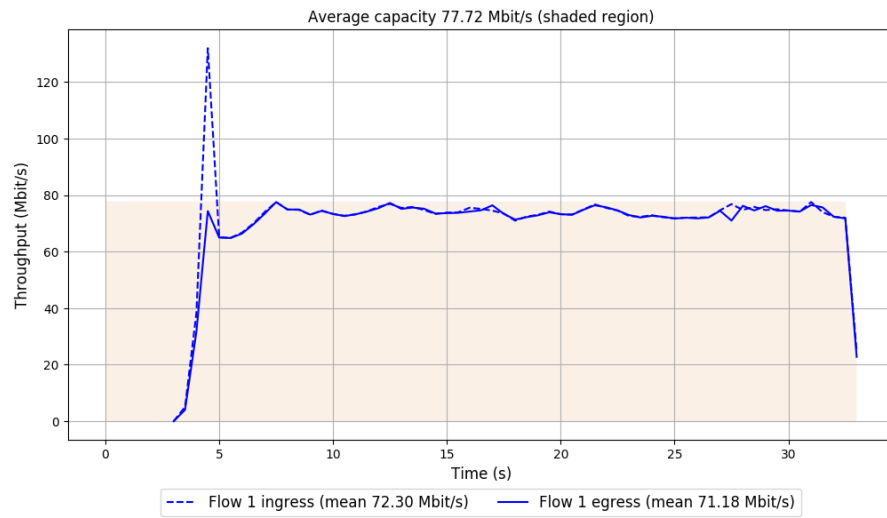
-- Flow 1:

Average throughput: 71.18 Mbit/s

95th percentile per-packet one-way delay: 59.373 ms

Loss rate: 1.73%

### Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-27 07:52:47

End at: 2018-02-27 07:53:17

# Below is generated by plot.py at 2018-02-27 08:10:34

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 71.03 Mbit/s (91.4% utilization)

95th percentile per-packet one-way delay: 63.989 ms

Loss rate: 1.59%

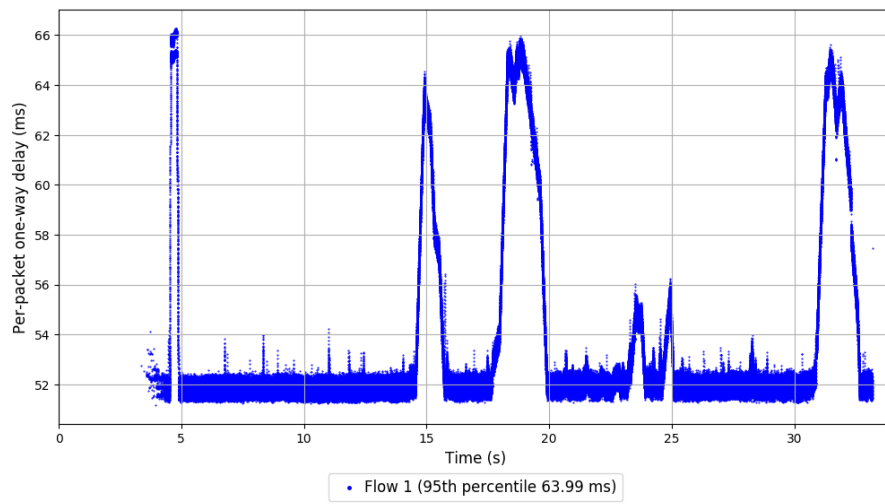
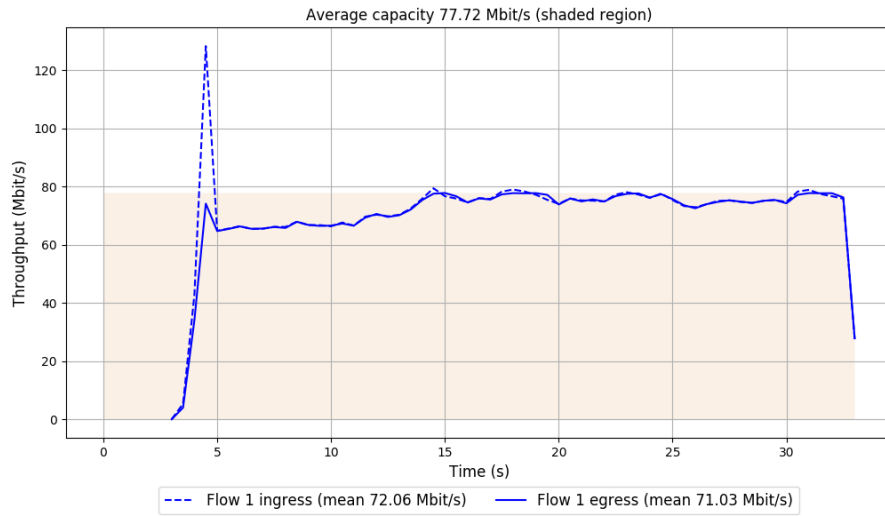
-- Flow 1:

Average throughput: 71.03 Mbit/s

95th percentile per-packet one-way delay: 63.989 ms

Loss rate: 1.59%

Run 10: Report of PCC — Data Link

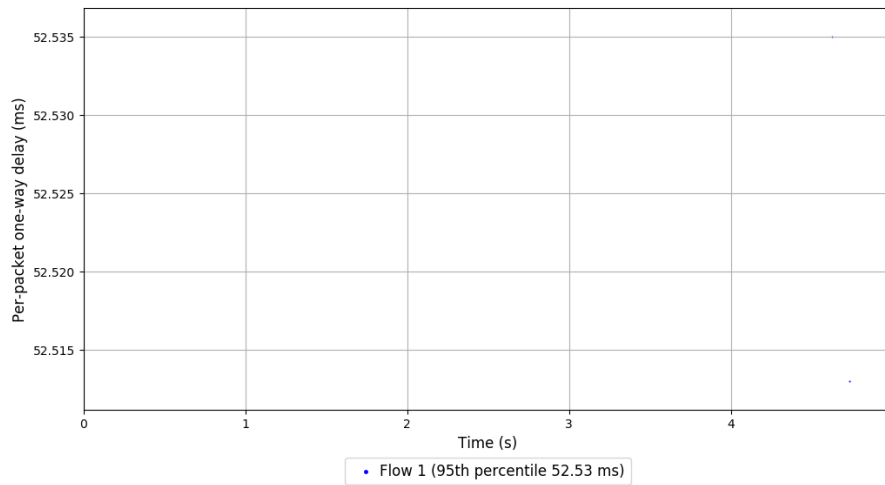
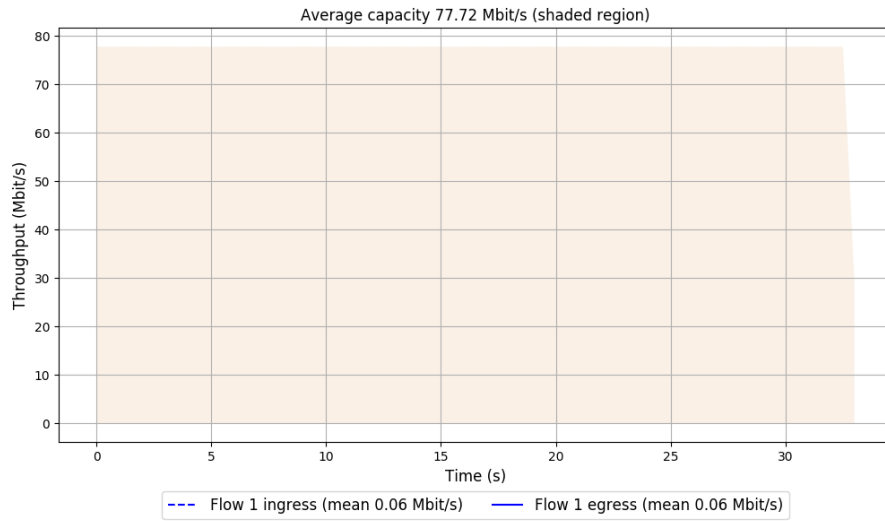


Run 1: Statistics of QUIC Cubic

Start at: 2018-02-27 06:09:03

End at: 2018-02-27 06:09:33

# Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-27 06:20:29

End at: 2018-02-27 06:20:59

# Below is generated by plot.py at 2018-02-27 08:10:34

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 21.48 Mbit/s (27.6% utilization)

95th percentile per-packet one-way delay: 53.069 ms

Loss rate: 0.17%

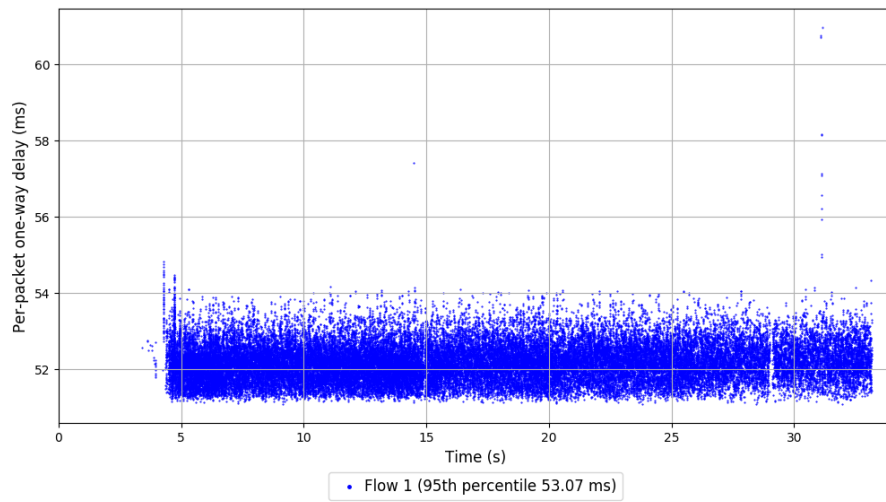
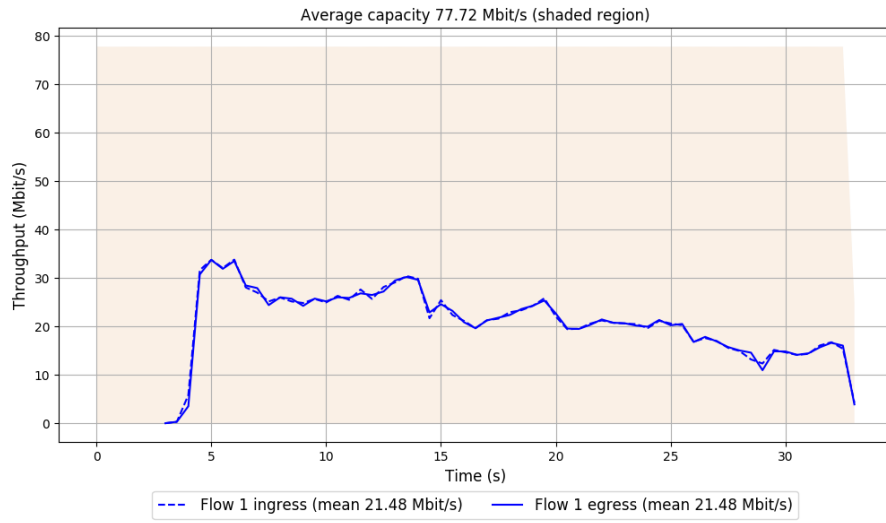
-- Flow 1:

Average throughput: 21.48 Mbit/s

95th percentile per-packet one-way delay: 53.069 ms

Loss rate: 0.17%

## Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

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

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

# Below is generated by plot.py at 2018-02-27 08:10:34

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 21.02 Mbit/s (27.0% utilization)

95th percentile per-packet one-way delay: 53.072 ms

Loss rate: 0.18%

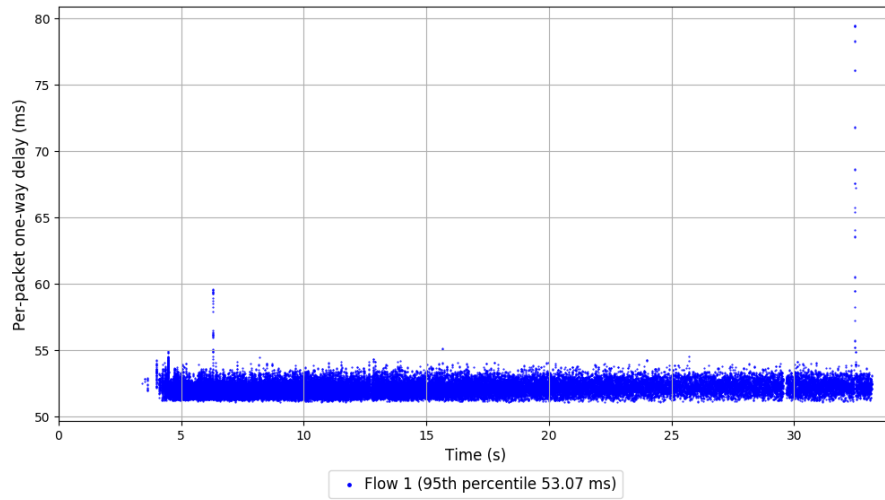
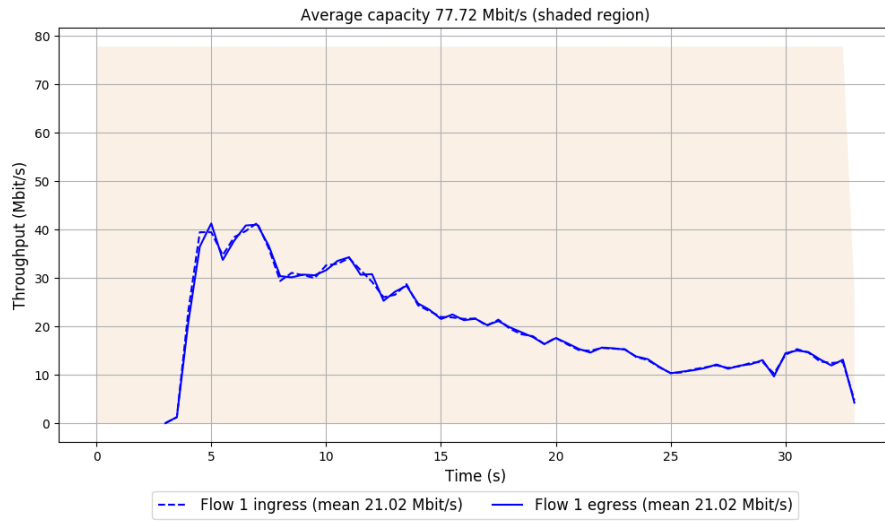
-- Flow 1:

Average throughput: 21.02 Mbit/s

95th percentile per-packet one-way delay: 53.072 ms

Loss rate: 0.18%

### Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-27 06:43:36

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

# Below is generated by plot.py at 2018-02-27 08:10:34

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 21.86 Mbit/s (28.1% utilization)

95th percentile per-packet one-way delay: 53.517 ms

Loss rate: 0.61%

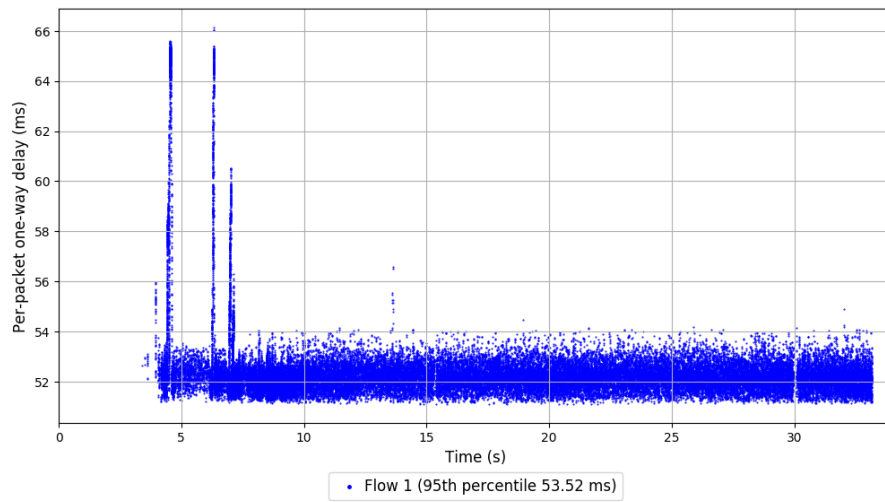
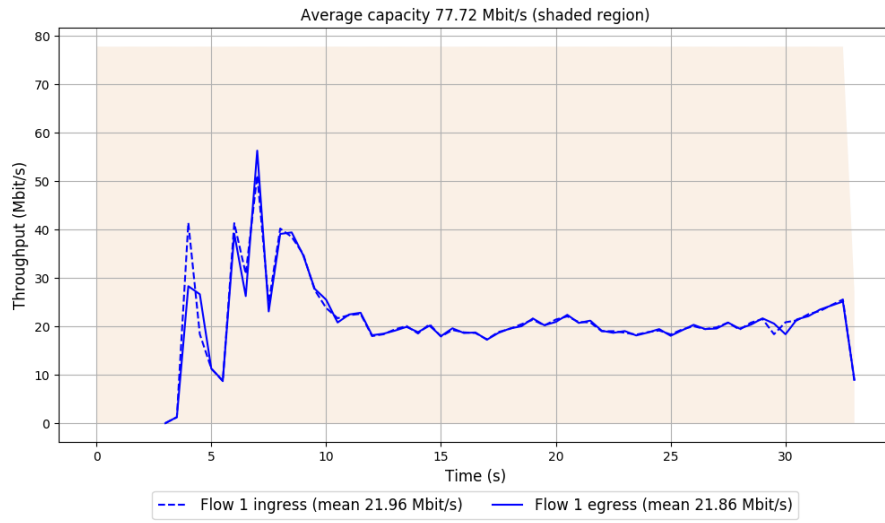
-- Flow 1:

Average throughput: 21.86 Mbit/s

95th percentile per-packet one-way delay: 53.517 ms

Loss rate: 0.61%

### Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

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

End at: 2018-02-27 06:55:36

# Below is generated by plot.py at 2018-02-27 08:10:34

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 23.27 Mbit/s (29.9% utilization)

95th percentile per-packet one-way delay: 53.366 ms

Loss rate: 0.72%

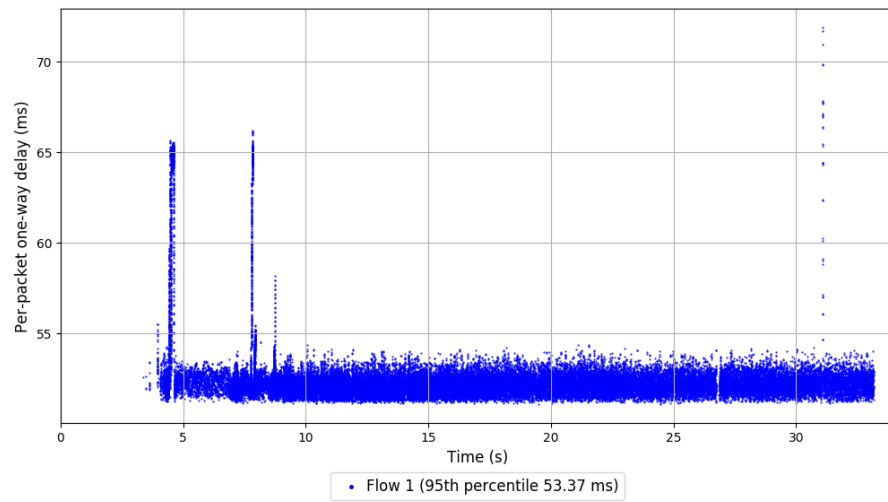
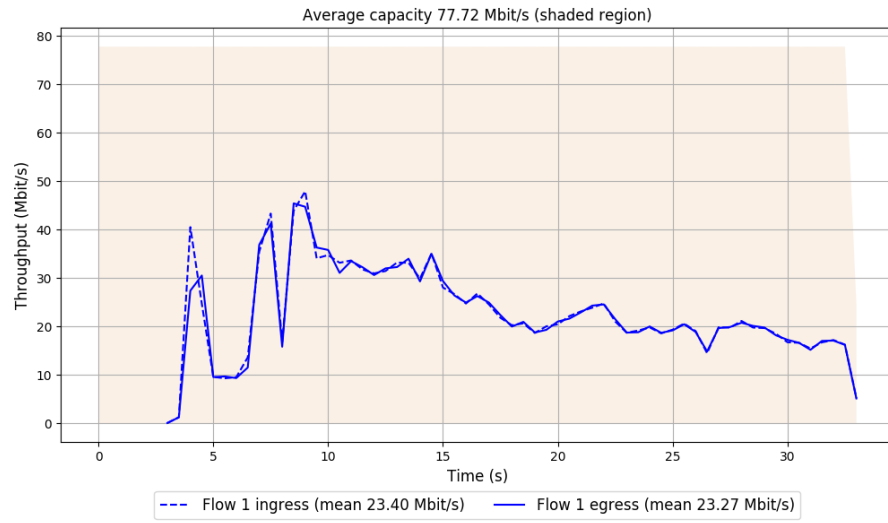
-- Flow 1:

Average throughput: 23.27 Mbit/s

95th percentile per-packet one-way delay: 53.366 ms

Loss rate: 0.72%

## Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-27 07:06:38

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

# Below is generated by plot.py at 2018-02-27 08:10:34

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 21.56 Mbit/s (27.7% utilization)

95th percentile per-packet one-way delay: 53.265 ms

Loss rate: 0.57%

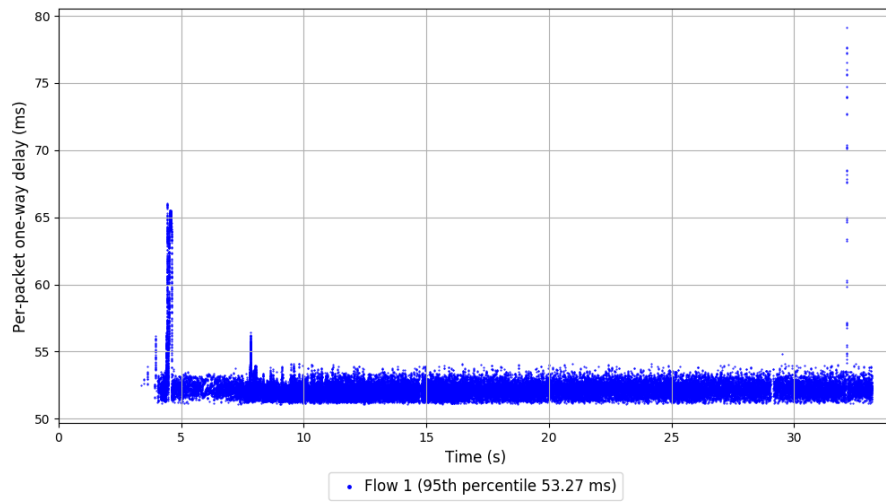
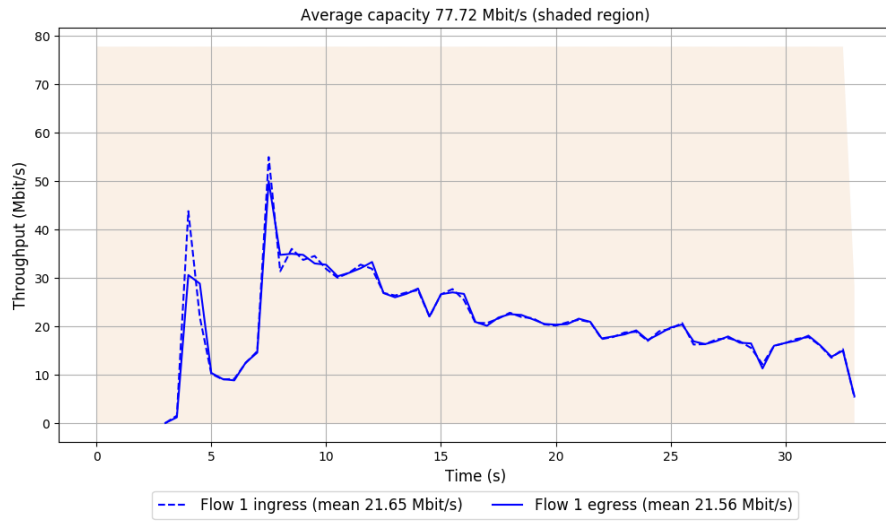
-- Flow 1:

Average throughput: 21.56 Mbit/s

95th percentile per-packet one-way delay: 53.265 ms

Loss rate: 0.57%

## Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-27 07:17:58

End at: 2018-02-27 07:18:28

# Below is generated by plot.py at 2018-02-27 08:10:34

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 23.53 Mbit/s (30.3% utilization)

95th percentile per-packet one-way delay: 57.999 ms

Loss rate: 1.28%

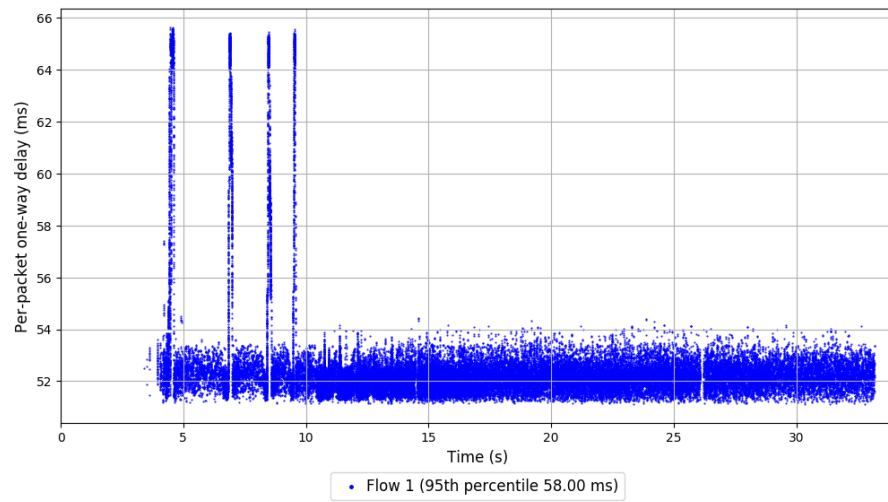
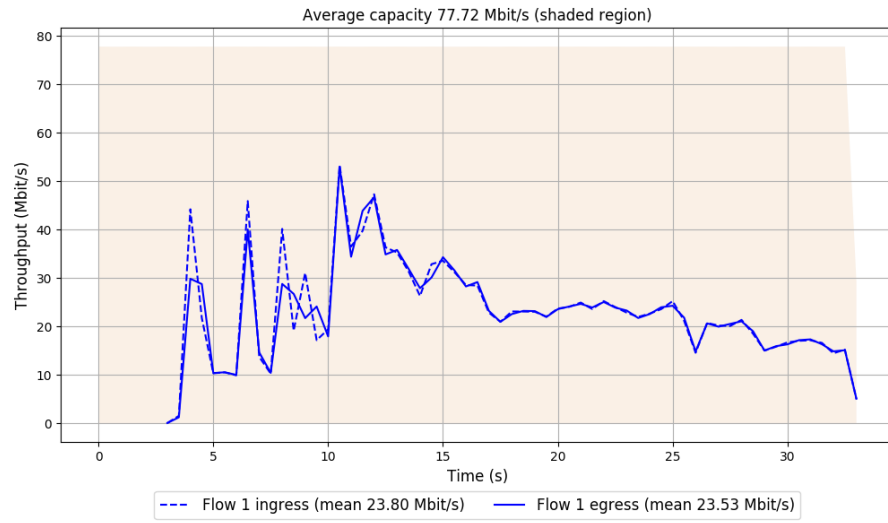
-- Flow 1:

Average throughput: 23.53 Mbit/s

95th percentile per-packet one-way delay: 57.999 ms

Loss rate: 1.28%

## Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-27 07:29:26

End at: 2018-02-27 07:29:56

# Below is generated by plot.py at 2018-02-27 08:10:34

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 11.00 Mbit/s (14.2% utilization)

95th percentile per-packet one-way delay: 53.105 ms

Loss rate: 0.35%

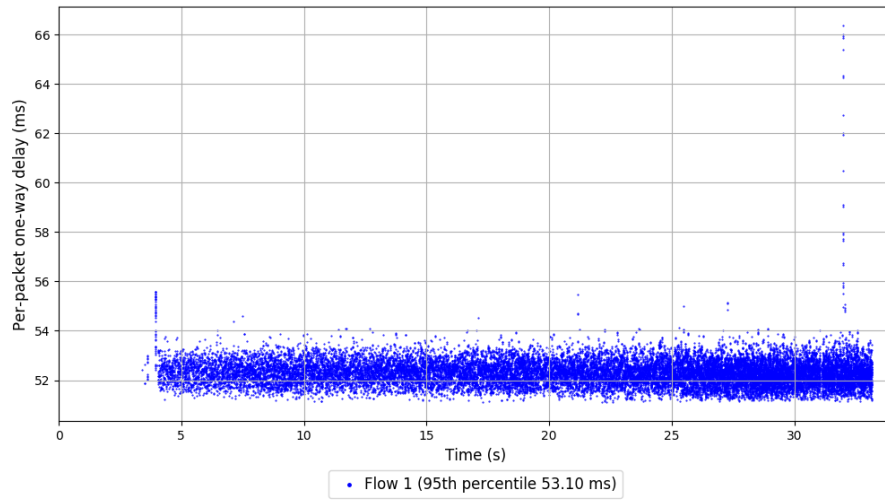
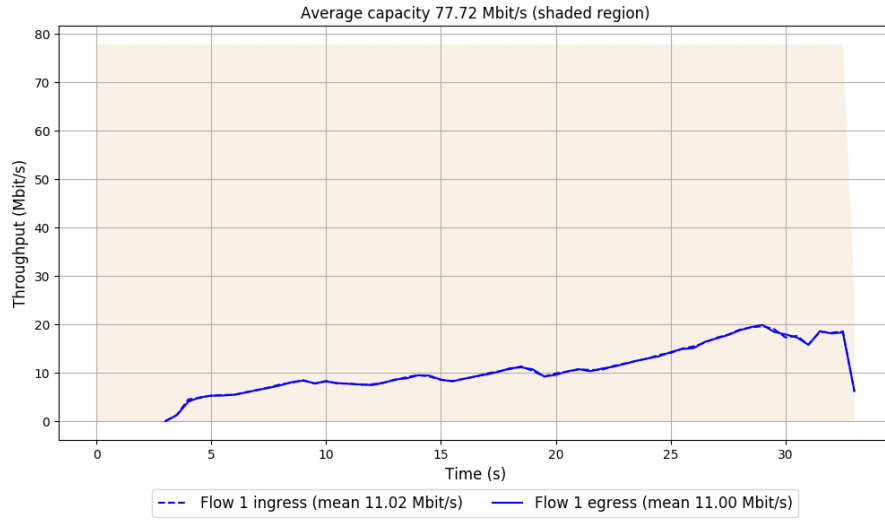
-- Flow 1:

Average throughput: 11.00 Mbit/s

95th percentile per-packet one-way delay: 53.105 ms

Loss rate: 0.35%

### Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-27 07:40:41

End at: 2018-02-27 07:41:11

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

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 20.34 Mbit/s (26.2% utilization)

95th percentile per-packet one-way delay: 53.245 ms

Loss rate: 0.15%

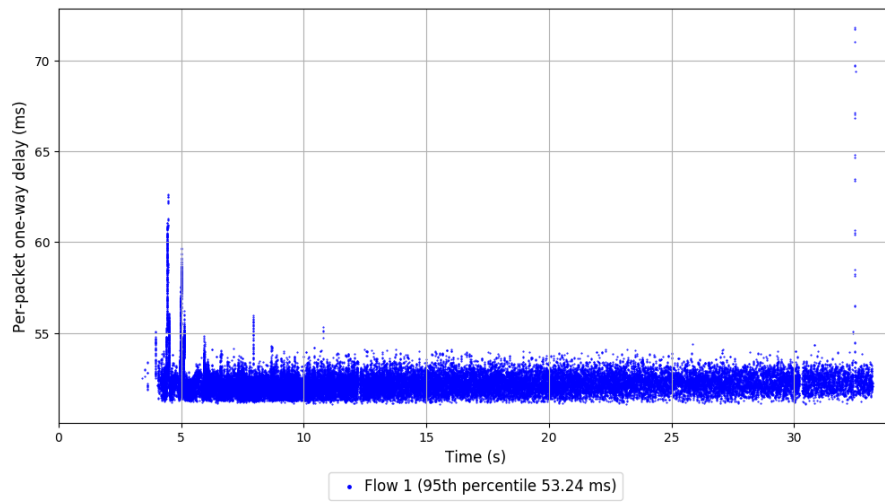
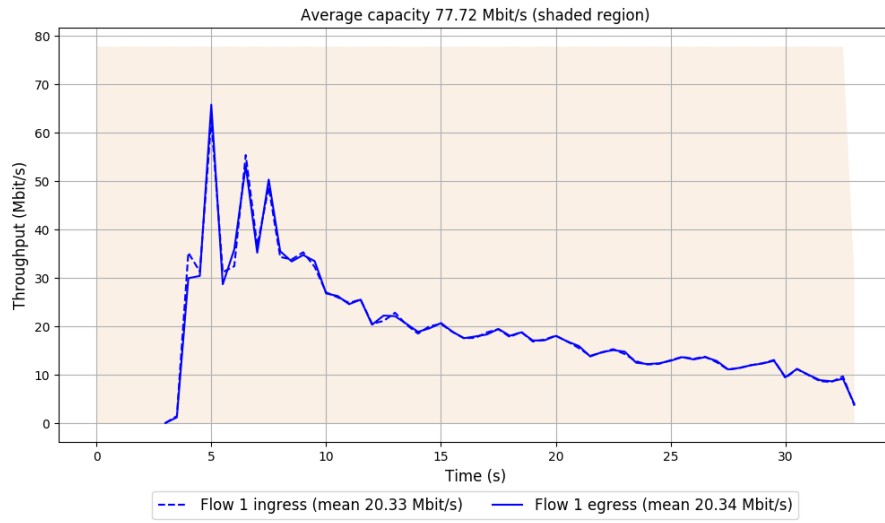
-- Flow 1:

Average throughput: 20.34 Mbit/s

95th percentile per-packet one-way delay: 53.245 ms

Loss rate: 0.15%

### Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-27 07:52:11

End at: 2018-02-27 07:52:41

# Below is generated by plot.py at 2018-02-27 08:10:41

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 18.66 Mbit/s (24.0% utilization)

95th percentile per-packet one-way delay: 55.174 ms

Loss rate: 0.94%

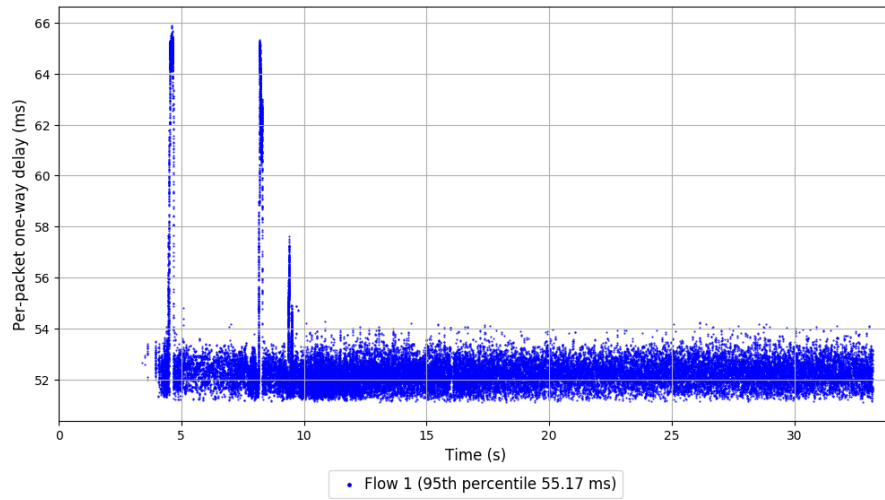
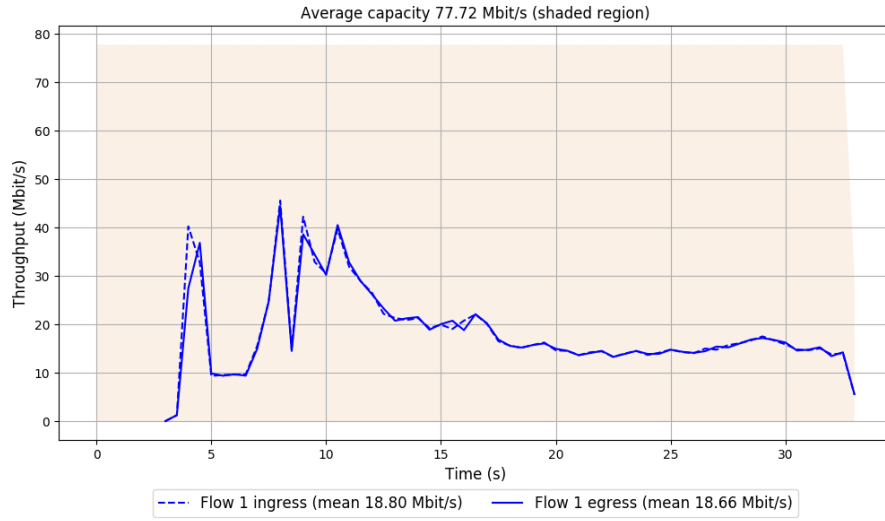
-- Flow 1:

Average throughput: 18.66 Mbit/s

95th percentile per-packet one-way delay: 55.174 ms

Loss rate: 0.94%

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2018-02-27 06:08:29

End at: 2018-02-27 06:08:59

# Below is generated by plot.py at 2018-02-27 08:10:42

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 0.21 Mbit/s (0.3% utilization)

95th percentile per-packet one-way delay: 52.677 ms

Loss rate: 0.13%

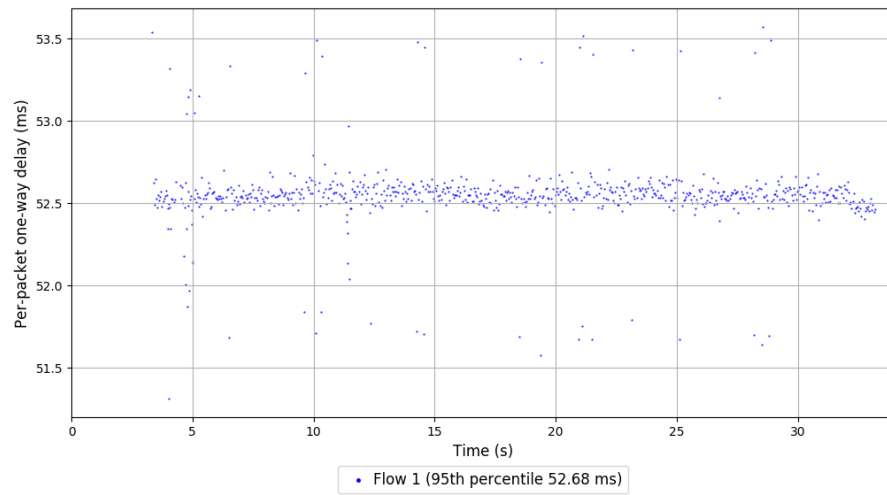
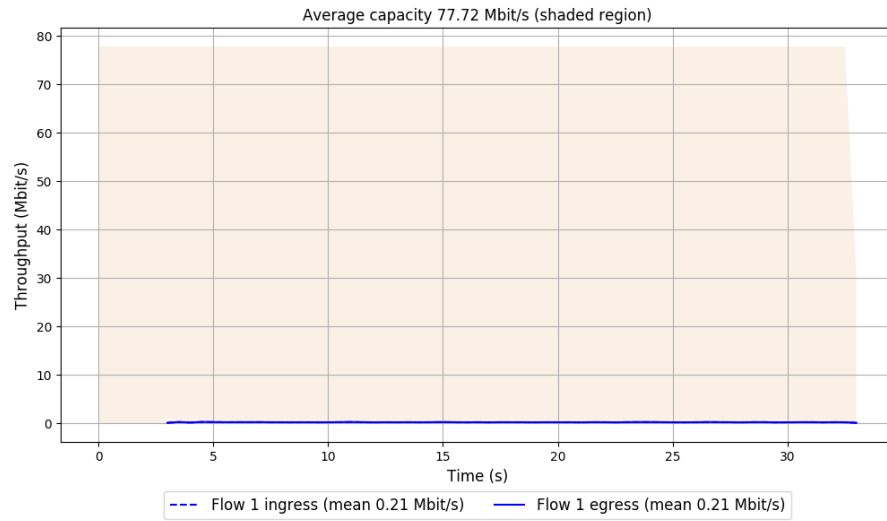
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 52.677 ms

Loss rate: 0.13%

# Run 1: Report of SCRaM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-02-27 06:19:54

End at: 2018-02-27 06:20:24

# Below is generated by plot.py at 2018-02-27 08:10:43

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

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

95th percentile per-packet one-way delay: 52.635 ms

Loss rate: 0.21%

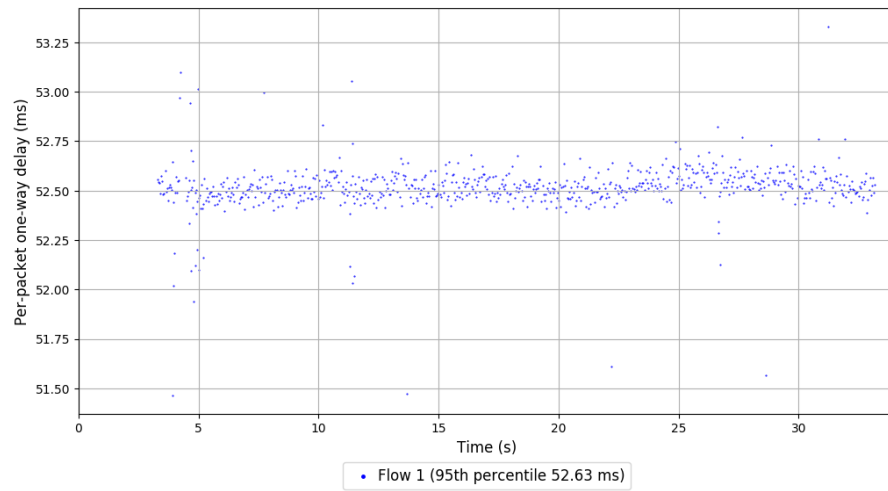
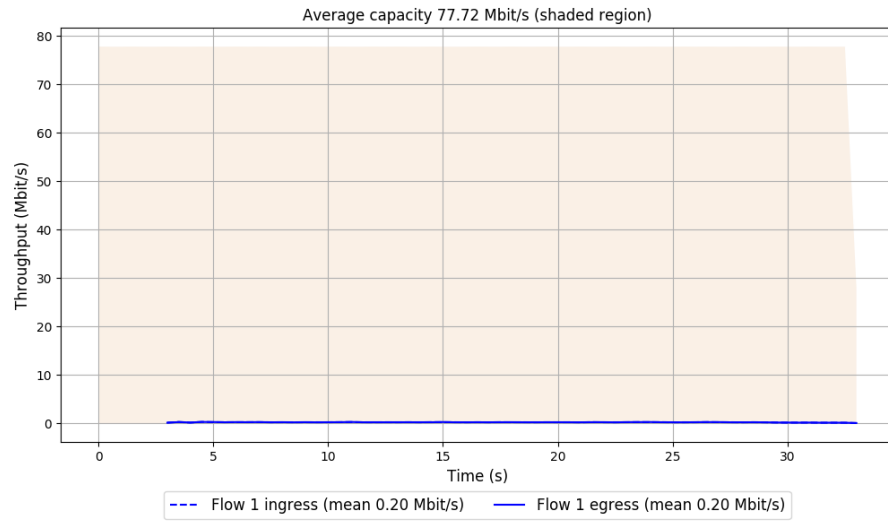
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 52.635 ms

Loss rate: 0.21%

## Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

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

End at: 2018-02-27 06:32:01

# Below is generated by plot.py at 2018-02-27 08:10:47

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 0.21 Mbit/s (0.3% utilization)

95th percentile per-packet one-way delay: 53.534 ms

Loss rate: 0.13%

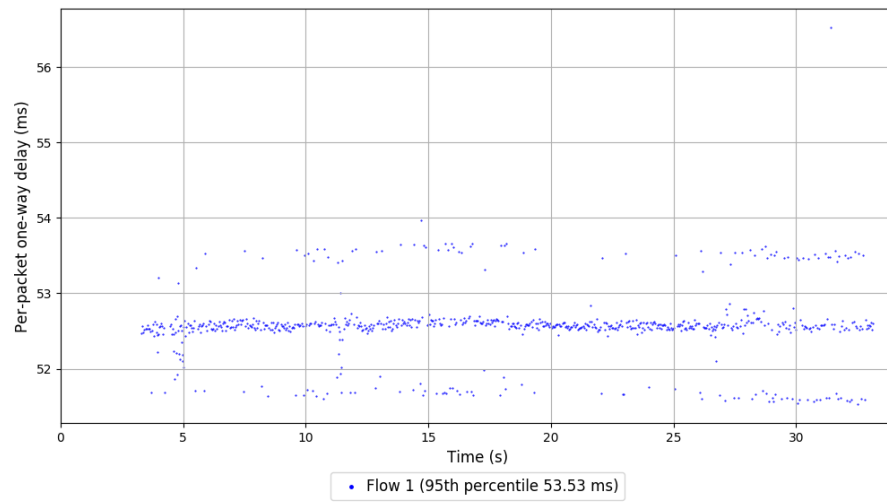
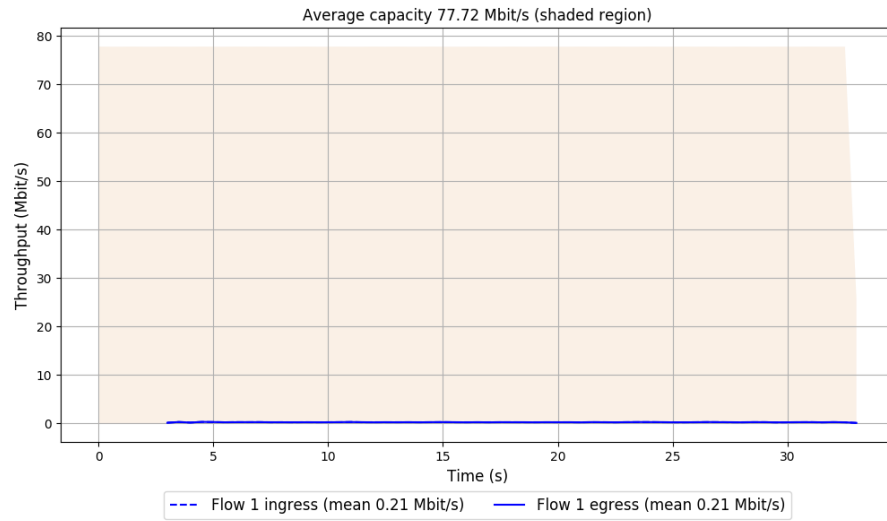
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.534 ms

Loss rate: 0.13%

### Run 3: Report of SCReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-02-27 06:43:01

End at: 2018-02-27 06:43:31

# Below is generated by plot.py at 2018-02-27 08:10:53

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 0.15 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 52.622 ms

Loss rate: 0.27%

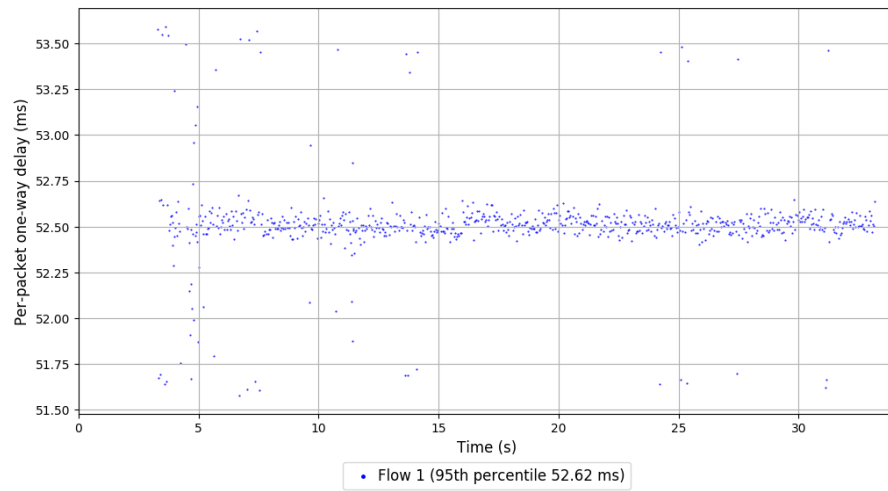
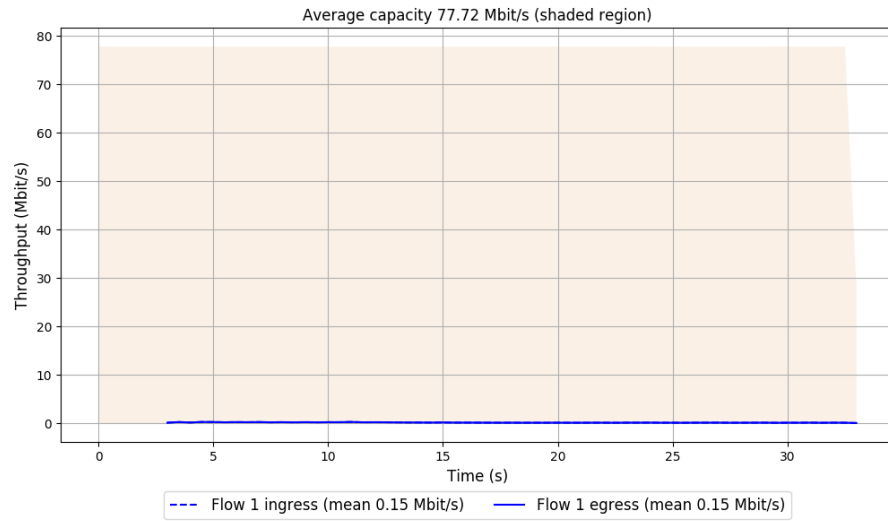
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 52.622 ms

Loss rate: 0.27%

## Run 4: Report of SCReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-27 06:54:31

End at: 2018-02-27 06:55:01

# Below is generated by plot.py at 2018-02-27 08:10:56

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 0.21 Mbit/s (0.3% utilization)

95th percentile per-packet one-way delay: 52.683 ms

Loss rate: 0.13%

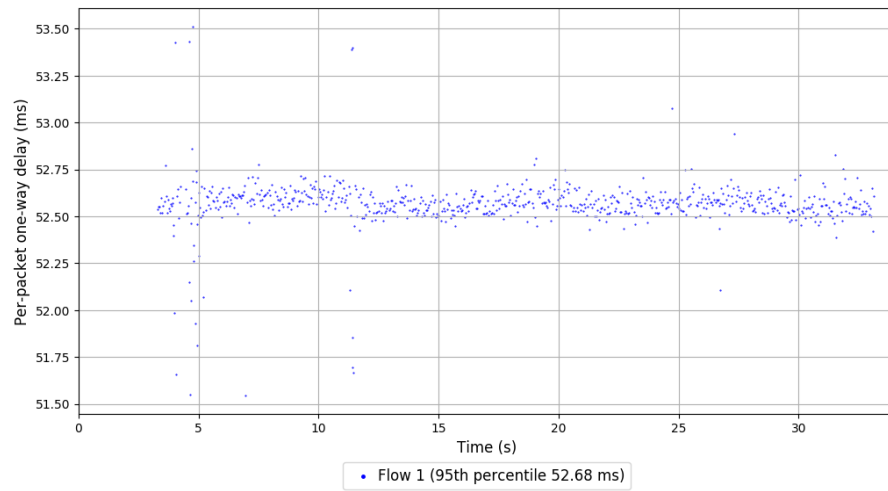
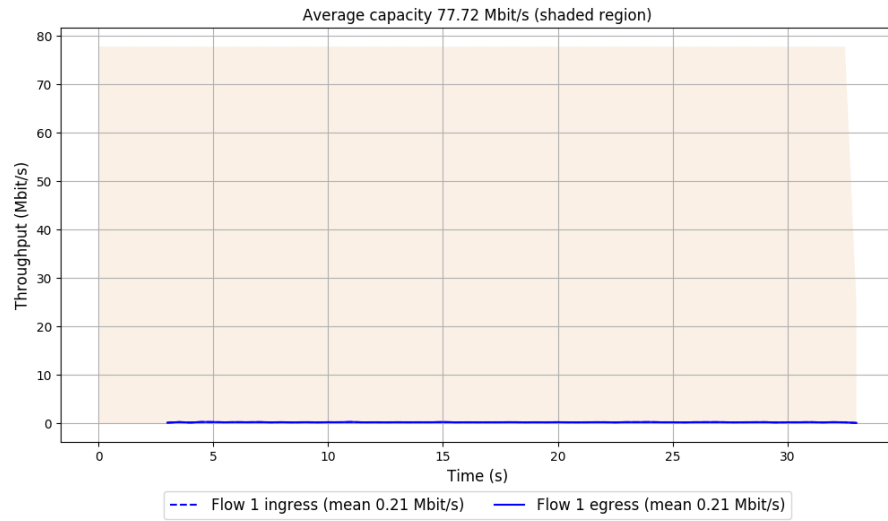
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 52.683 ms

Loss rate: 0.13%

## Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-27 07:06:03

End at: 2018-02-27 07:06:33

# Below is generated by plot.py at 2018-02-27 08:10:58

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 0.21 Mbit/s (0.3% utilization)

95th percentile per-packet one-way delay: 52.633 ms

Loss rate: 0.13%

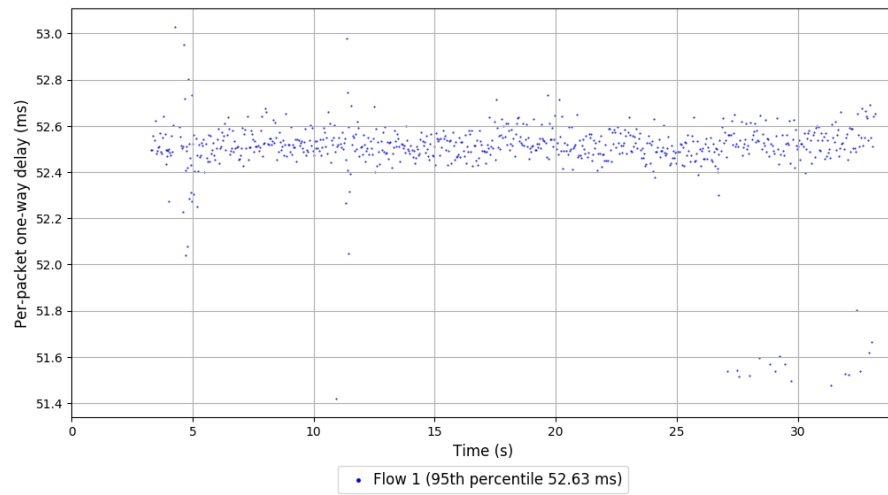
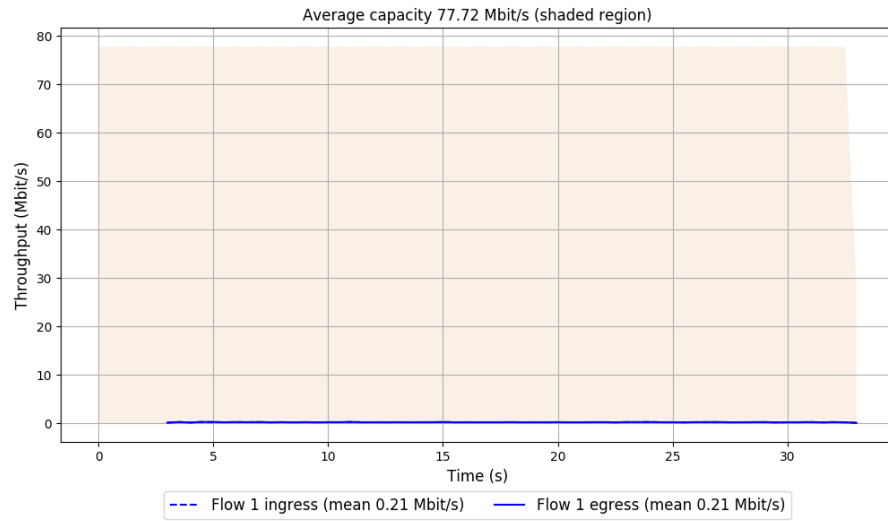
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 52.633 ms

Loss rate: 0.13%

## Run 6: Report of SCReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-27 07:17:23

End at: 2018-02-27 07:17:53

# Below is generated by plot.py at 2018-02-27 08:11:01

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 0.21 Mbit/s (0.3% utilization)

95th percentile per-packet one-way delay: 52.691 ms

Loss rate: 0.13%

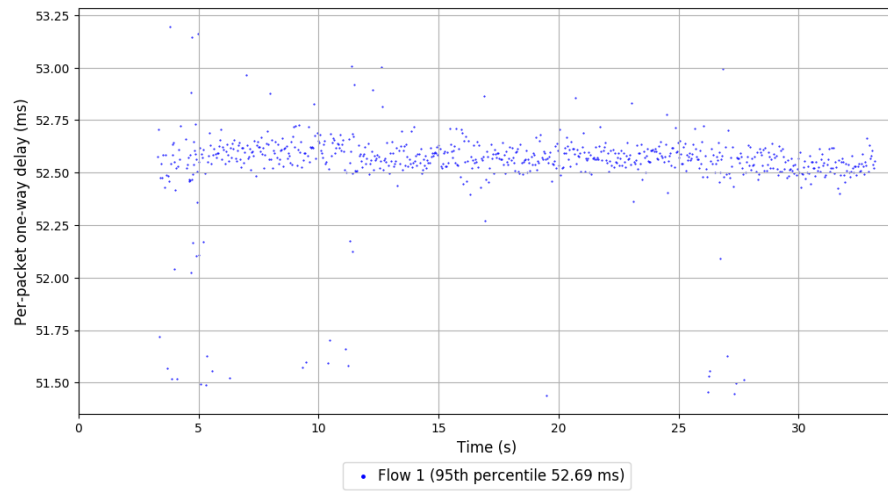
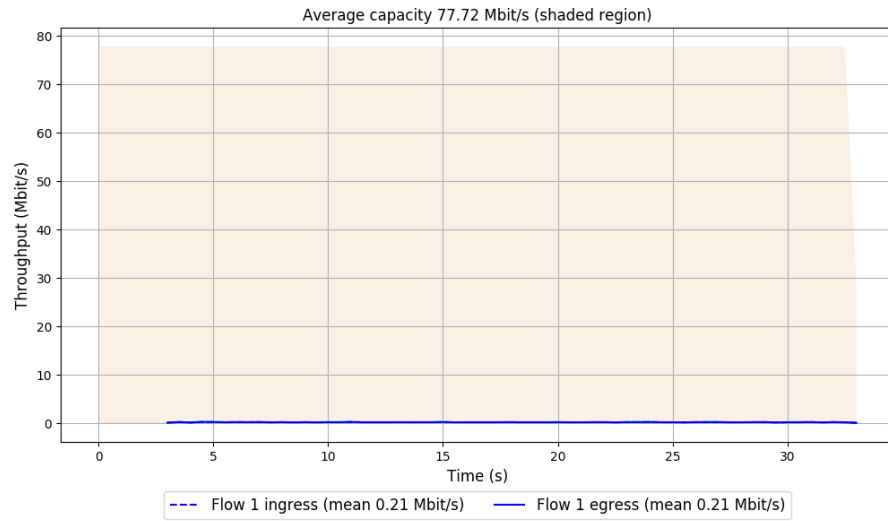
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 52.691 ms

Loss rate: 0.13%

## Run 7: Report of SCReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-27 07:28:51

End at: 2018-02-27 07:29:21

# Below is generated by plot.py at 2018-02-27 08:11:04

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 0.21 Mbit/s (0.3% utilization)

95th percentile per-packet one-way delay: 52.621 ms

Loss rate: 0.13%

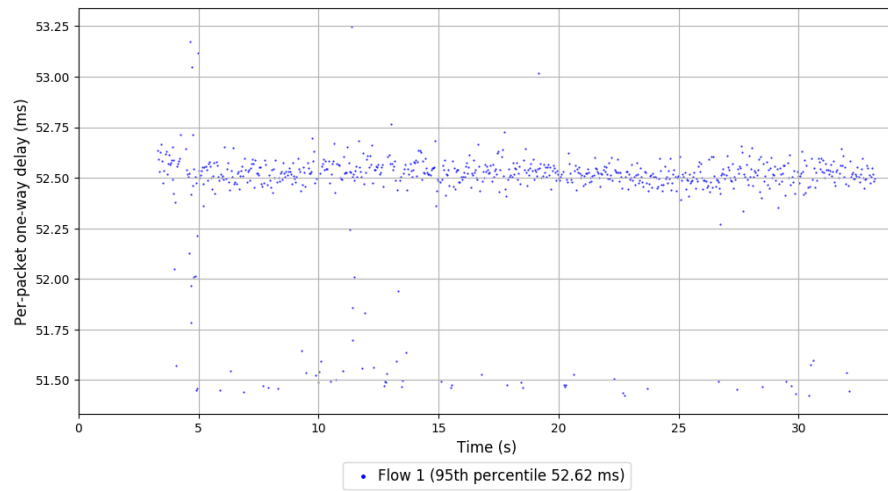
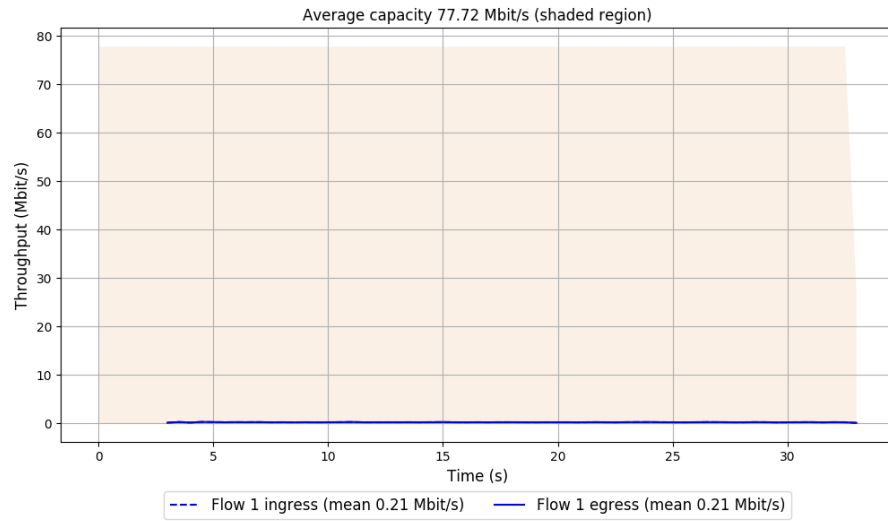
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 52.621 ms

Loss rate: 0.13%

## Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-27 07:40:06

End at: 2018-02-27 07:40:36

# Below is generated by plot.py at 2018-02-27 08:11:05

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 0.21 Mbit/s (0.3% utilization)

95th percentile per-packet one-way delay: 52.749 ms

Loss rate: 0.13%

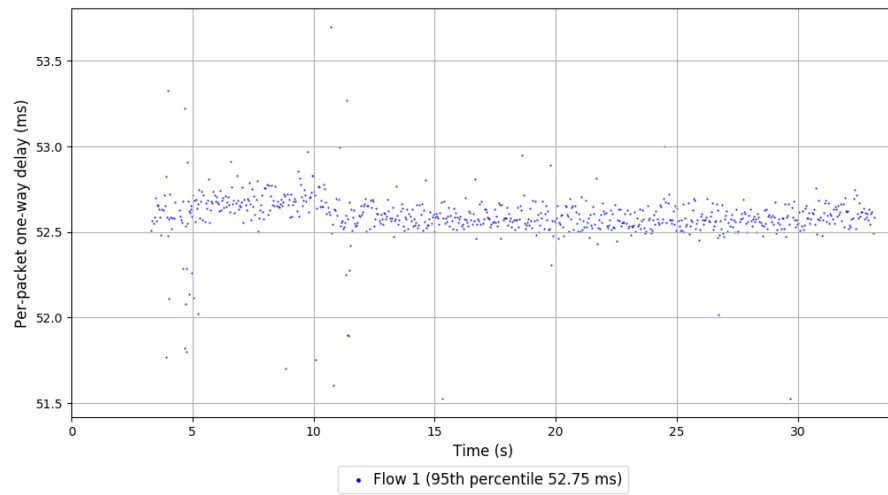
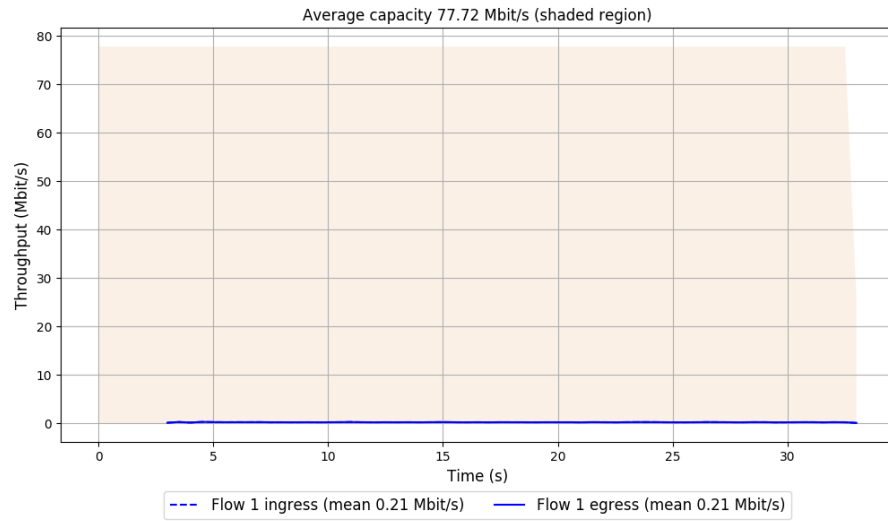
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 52.749 ms

Loss rate: 0.13%

## Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-27 07:51:36

End at: 2018-02-27 07:52:06

# Below is generated by plot.py at 2018-02-27 08:11:06

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 0.21 Mbit/s (0.3% utilization)

95th percentile per-packet one-way delay: 53.476 ms

Loss rate: 0.21%

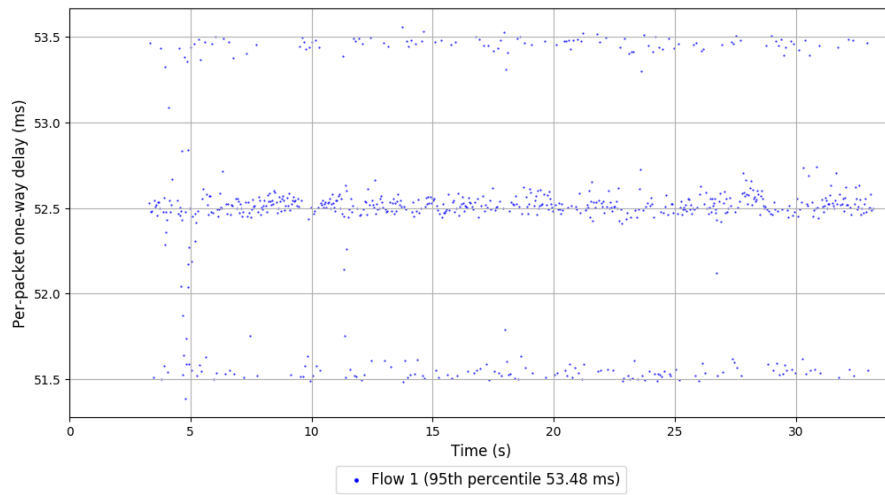
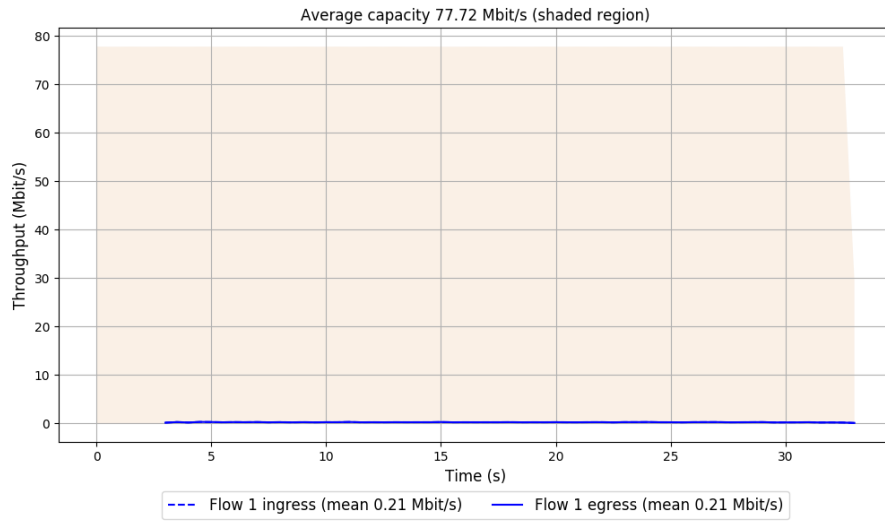
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.476 ms

Loss rate: 0.21%

# Run 10: Report of SCReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-02-27 06:13:43

End at: 2018-02-27 06:14:13

# Below is generated by plot.py at 2018-02-27 08:11:12

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 2.34 Mbit/s (3.0% utilization)

95th percentile per-packet one-way delay: 53.429 ms

Loss rate: 0.27%

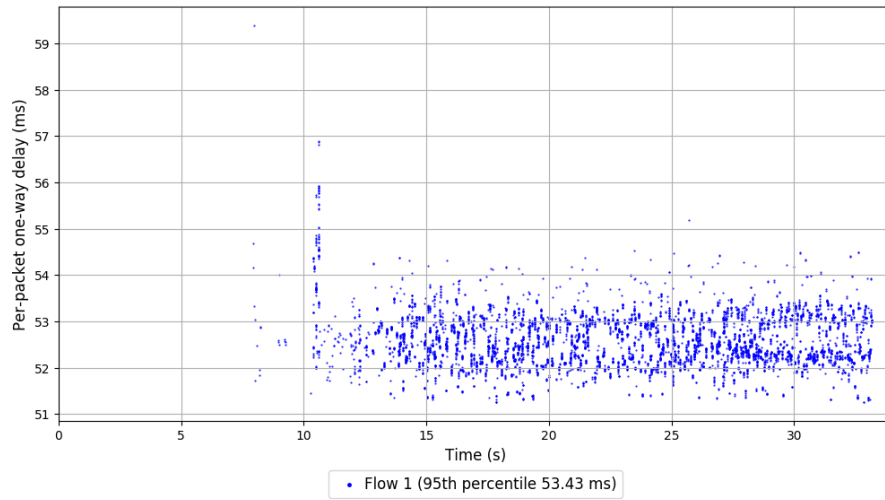
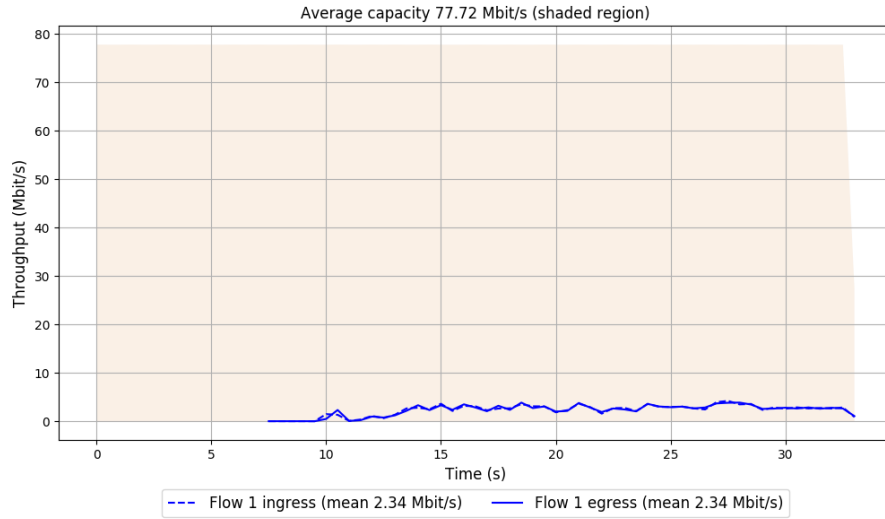
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 53.429 ms

Loss rate: 0.27%

# Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-27 06:25:16

End at: 2018-02-27 06:25:46

# Below is generated by plot.py at 2018-02-27 08:11:19

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 2.67 Mbit/s (3.4% utilization)

95th percentile per-packet one-way delay: 53.491 ms

Loss rate: 0.23%

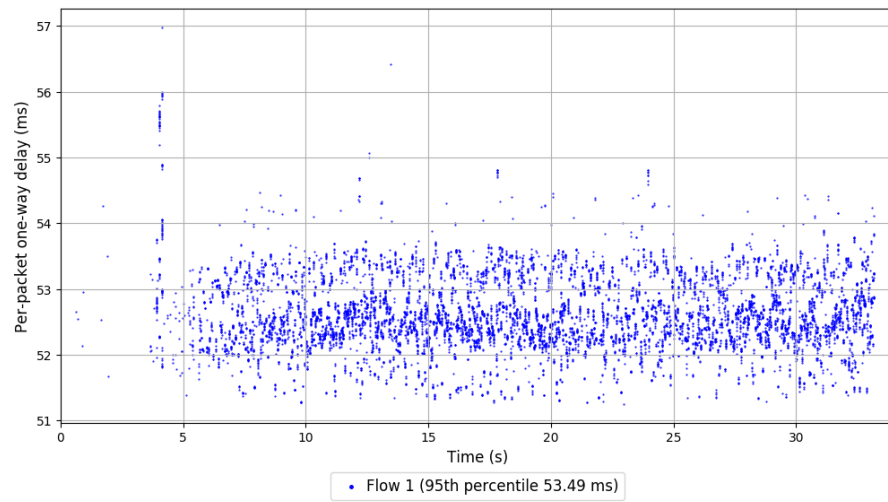
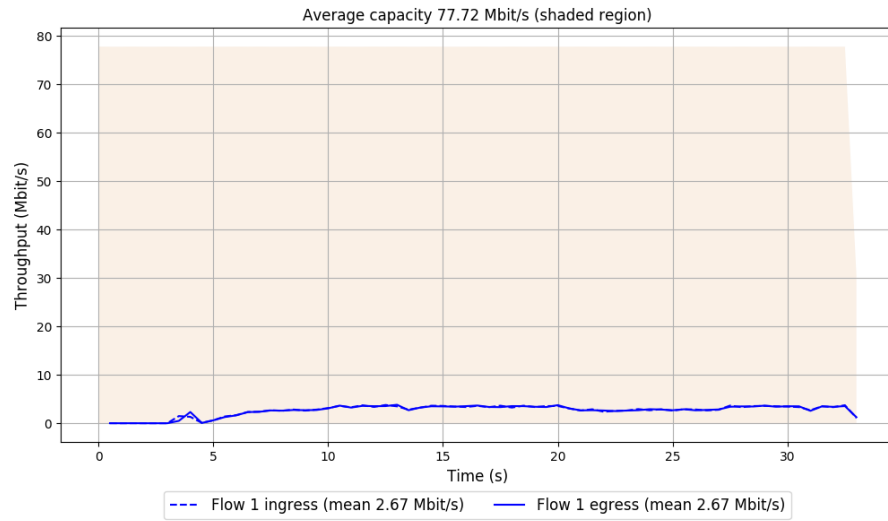
-- Flow 1:

Average throughput: 2.67 Mbit/s

95th percentile per-packet one-way delay: 53.491 ms

Loss rate: 0.23%

## Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-27 06:36:49

End at: 2018-02-27 06:37:19

# Below is generated by plot.py at 2018-02-27 08:11:23

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 2.32 Mbit/s (3.0% utilization)

95th percentile per-packet one-way delay: 53.380 ms

Loss rate: 0.17%

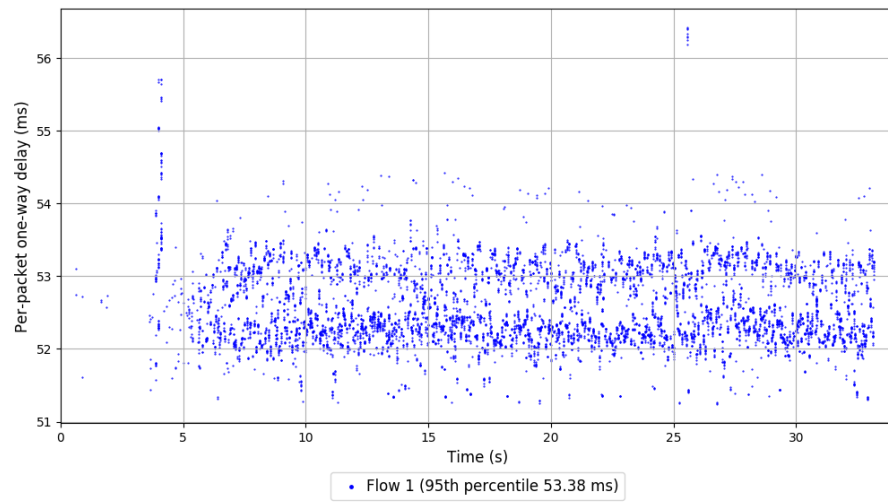
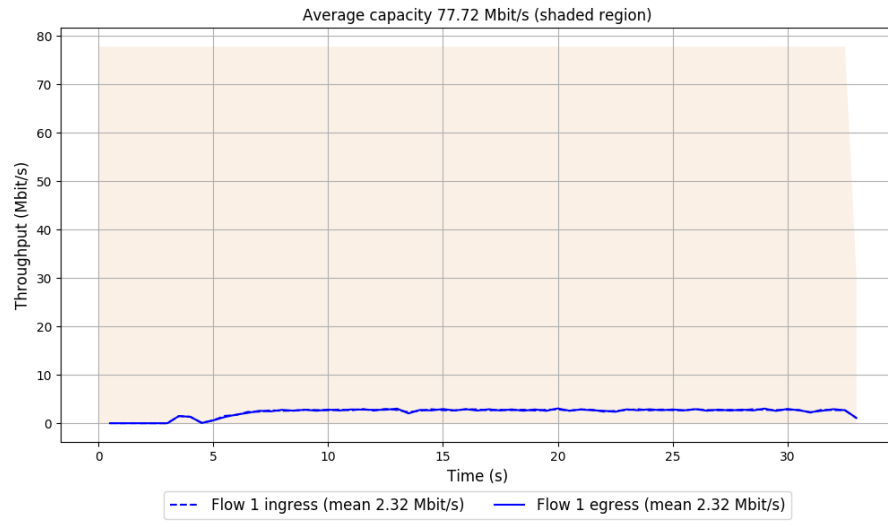
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.380 ms

Loss rate: 0.17%

### Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-27 06:48:19

End at: 2018-02-27 06:48:49

# Below is generated by plot.py at 2018-02-27 08:11:23

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 2.32 Mbit/s (3.0% utilization)

95th percentile per-packet one-way delay: 53.409 ms

Loss rate: 0.19%

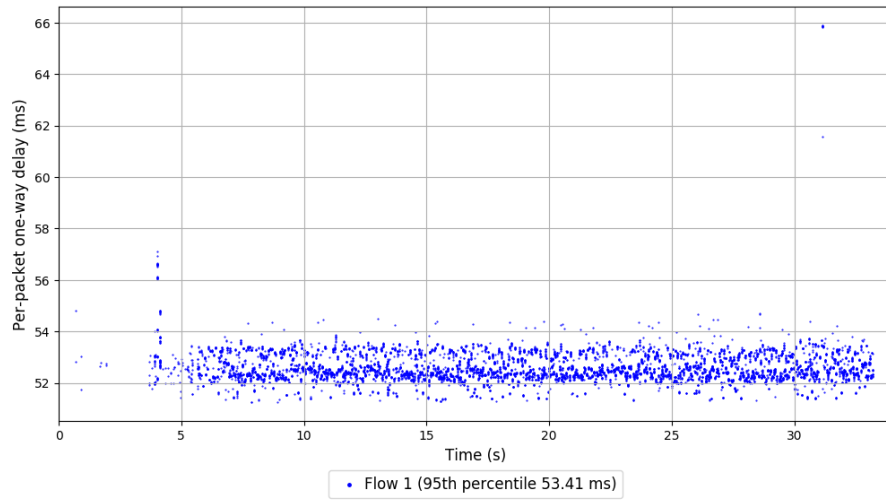
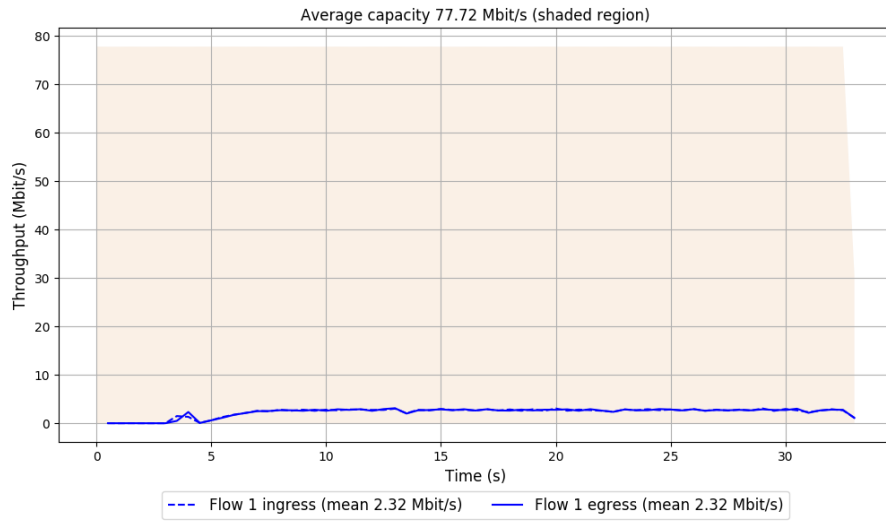
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.409 ms

Loss rate: 0.19%

## Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-27 06:59:49

End at: 2018-02-27 07:00:19

# Below is generated by plot.py at 2018-02-27 08:11:28

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 2.45 Mbit/s (3.2% utilization)

95th percentile per-packet one-way delay: 53.386 ms

Loss rate: 0.28%

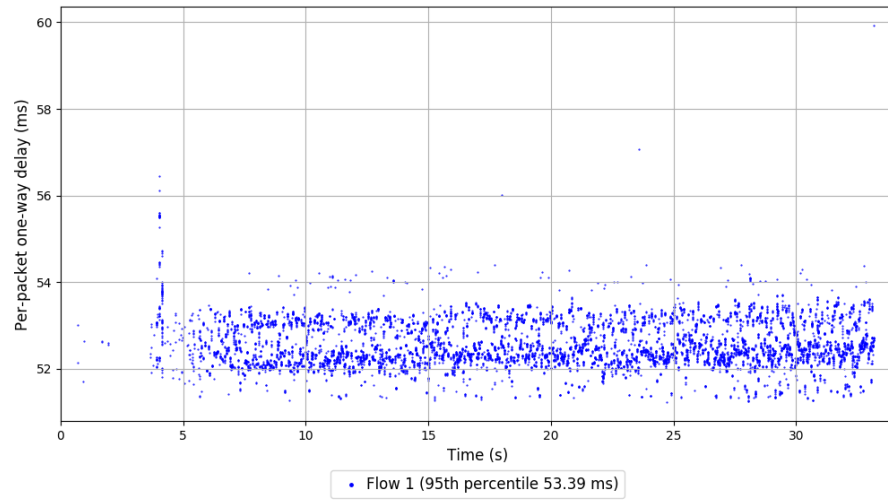
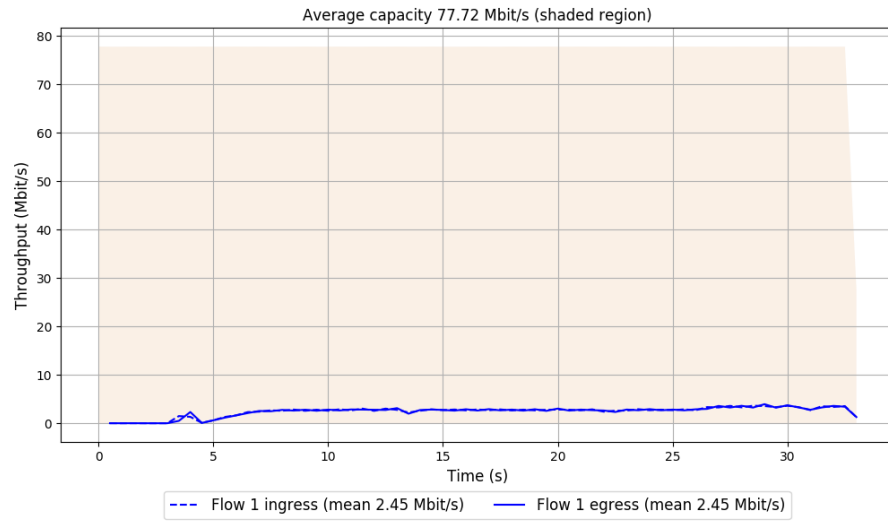
-- Flow 1:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 53.386 ms

Loss rate: 0.28%

## Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-27 07:11:09

End at: 2018-02-27 07:11:39

# Below is generated by plot.py at 2018-02-27 08:11:32

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 2.60 Mbit/s (3.3% utilization)

95th percentile per-packet one-way delay: 53.374 ms

Loss rate: 0.22%

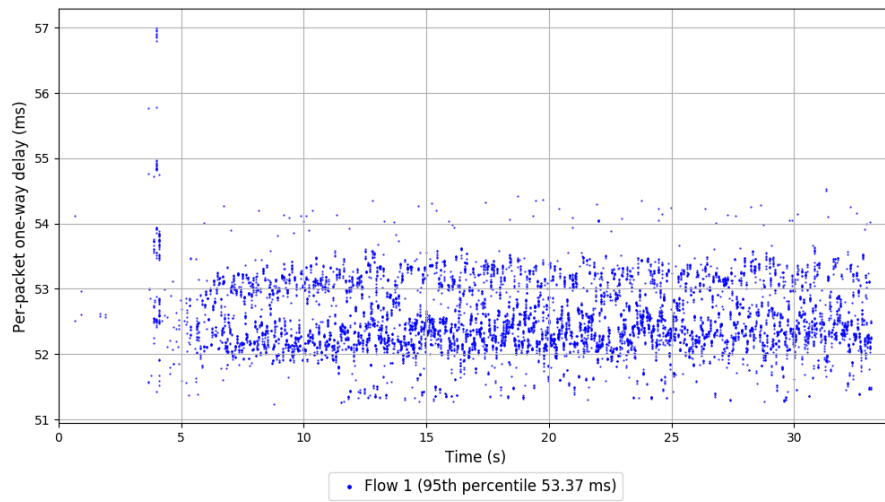
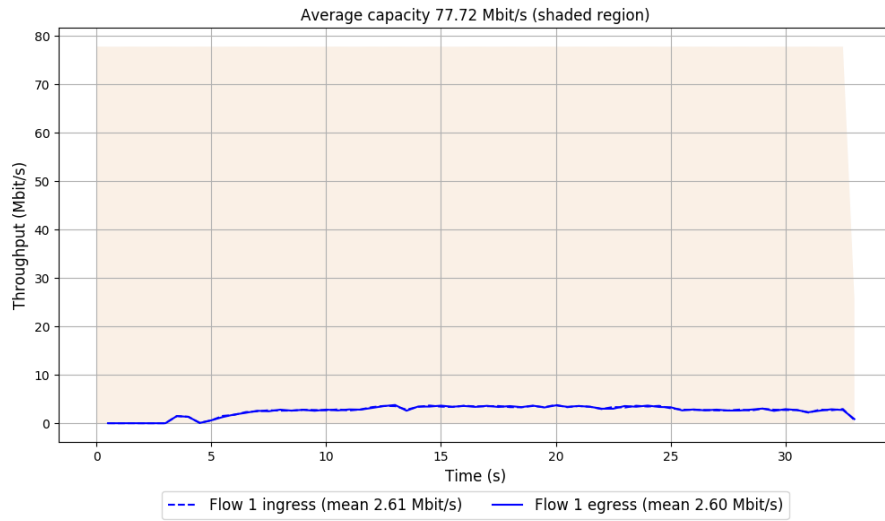
-- Flow 1:

Average throughput: 2.60 Mbit/s

95th percentile per-packet one-way delay: 53.374 ms

Loss rate: 0.22%

### Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-27 07:22:40

End at: 2018-02-27 07:23:10

# Below is generated by plot.py at 2018-02-27 08:11:32

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 2.38 Mbit/s (3.1% utilization)

95th percentile per-packet one-way delay: 53.477 ms

Loss rate: 0.44%

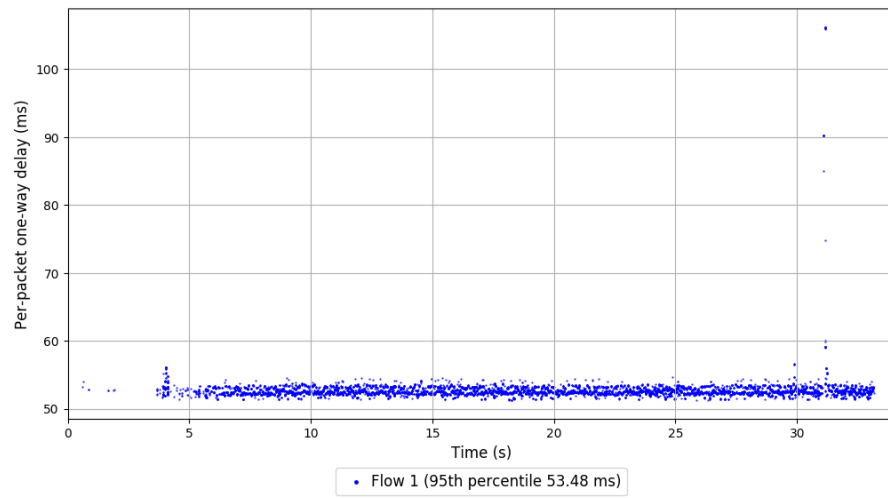
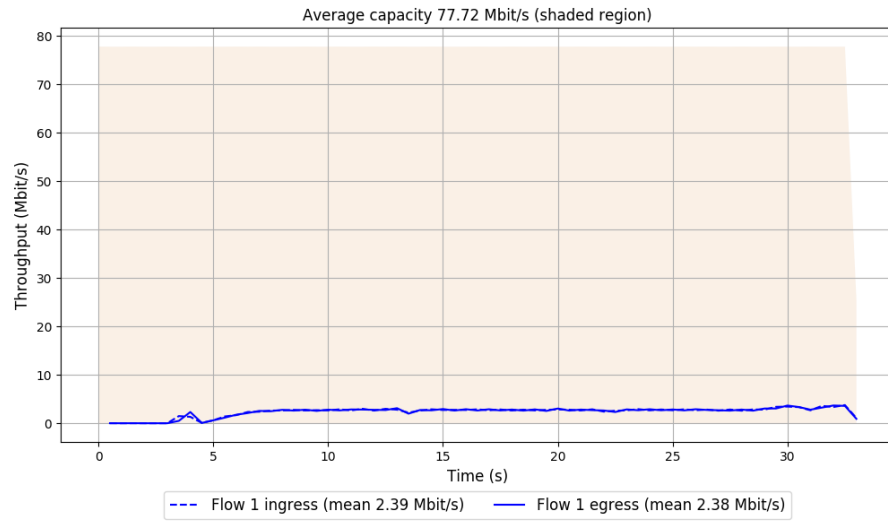
-- Flow 1:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 53.477 ms

Loss rate: 0.44%

## Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-27 07:33:53

End at: 2018-02-27 07:34:24

# Below is generated by plot.py at 2018-02-27 08:11:33

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 2.68 Mbit/s (3.4% utilization)

95th percentile per-packet one-way delay: 53.472 ms

Loss rate: 0.32%

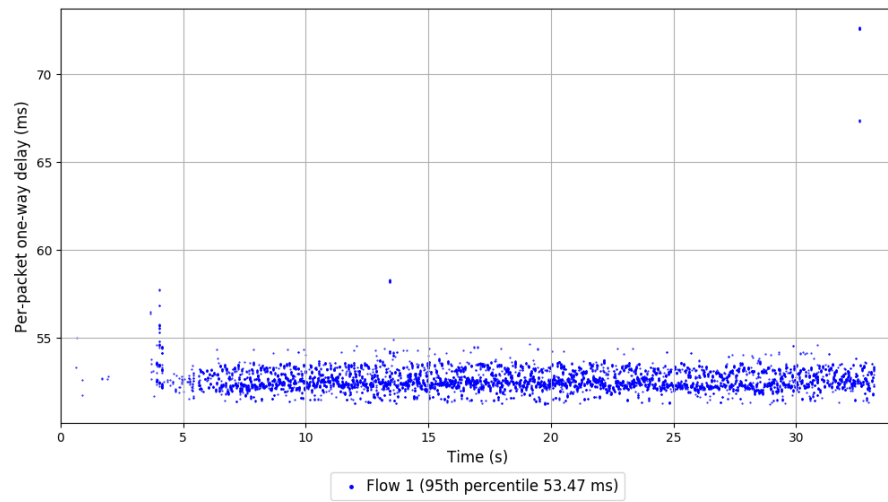
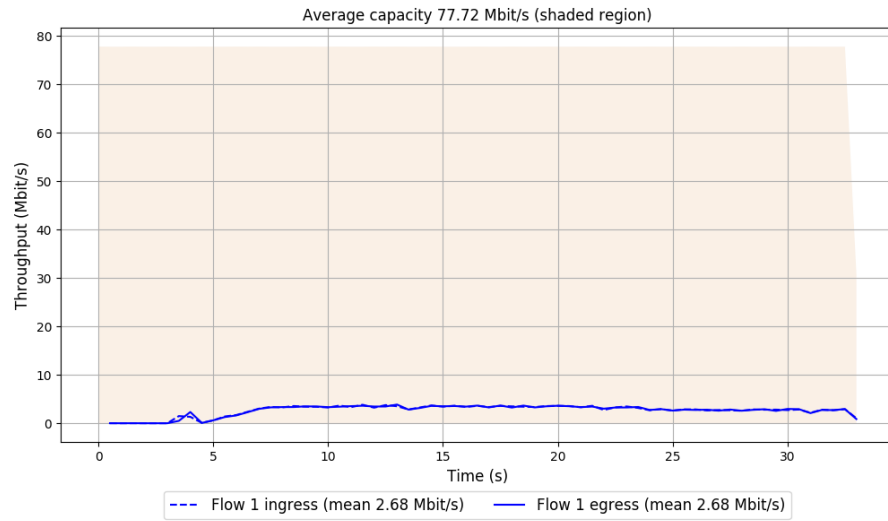
-- Flow 1:

Average throughput: 2.68 Mbit/s

95th percentile per-packet one-way delay: 53.472 ms

Loss rate: 0.32%

### Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-27 07:45:23

End at: 2018-02-27 07:45:53

# Below is generated by plot.py at 2018-02-27 08:11:39

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 2.74 Mbit/s (3.5% utilization)

95th percentile per-packet one-way delay: 53.444 ms

Loss rate: 0.42%

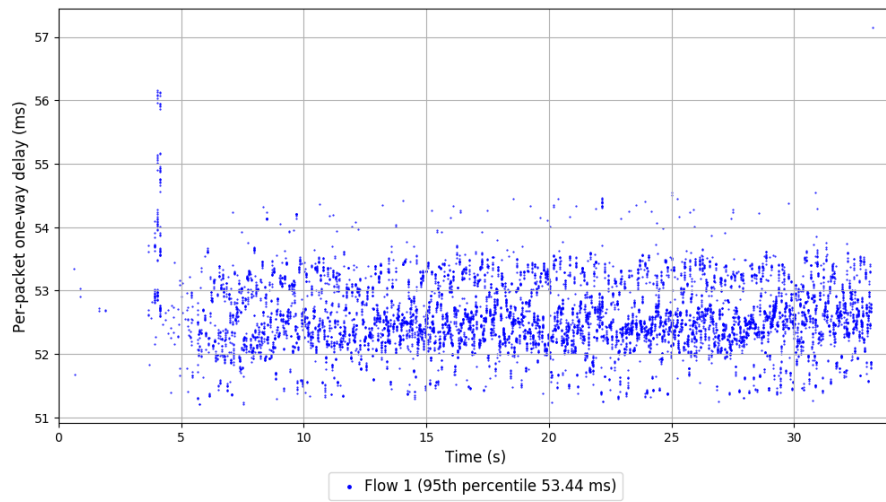
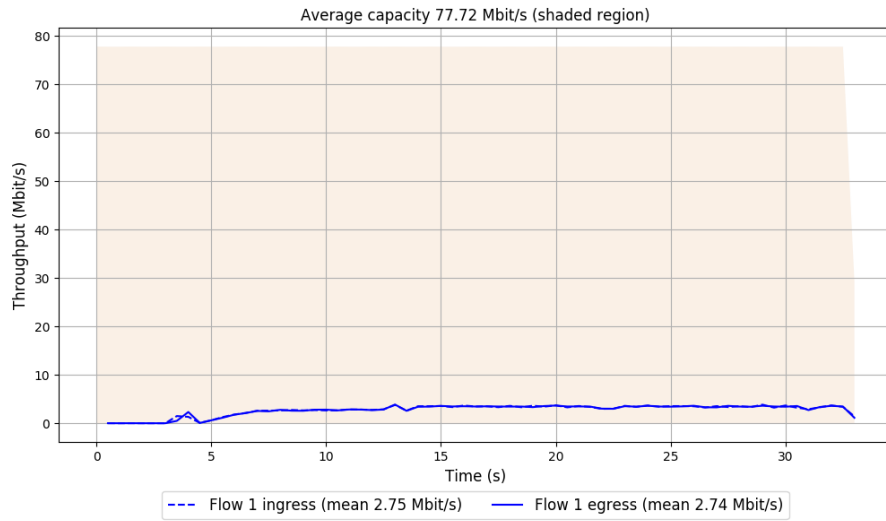
-- Flow 1:

Average throughput: 2.74 Mbit/s

95th percentile per-packet one-way delay: 53.444 ms

Loss rate: 0.42%

### Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-27 07:56:51

End at: 2018-02-27 07:57:21

# Below is generated by plot.py at 2018-02-27 08:11:46

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 2.37 Mbit/s (3.1% utilization)

95th percentile per-packet one-way delay: 53.446 ms

Loss rate: 0.31%

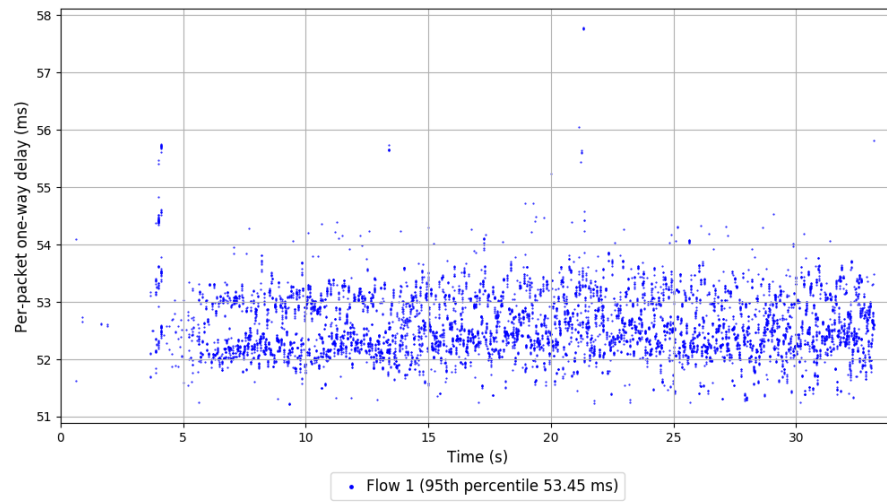
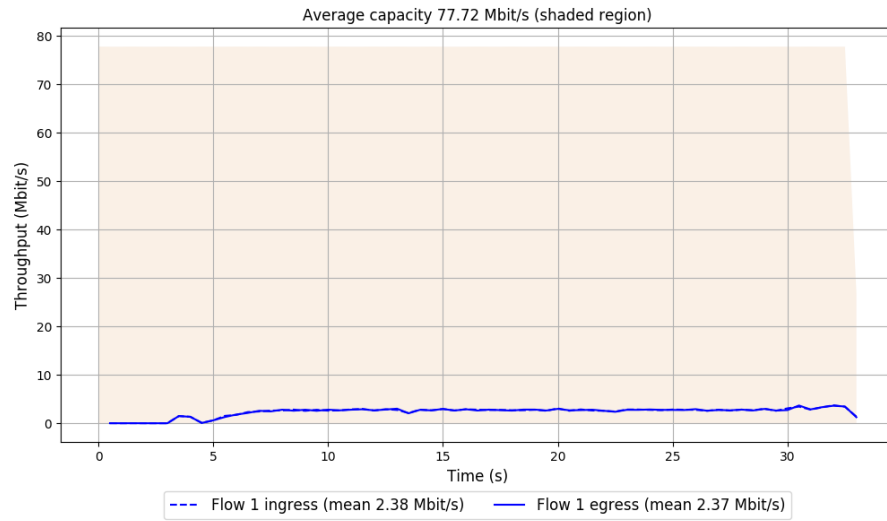
-- Flow 1:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 53.446 ms

Loss rate: 0.31%

### Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-27 06:14:53

End at: 2018-02-27 06:15:23

# Below is generated by plot.py at 2018-02-27 08:11:53

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 7.71 Mbit/s (9.9% utilization)

95th percentile per-packet one-way delay: 60.692 ms

Loss rate: 0.40%

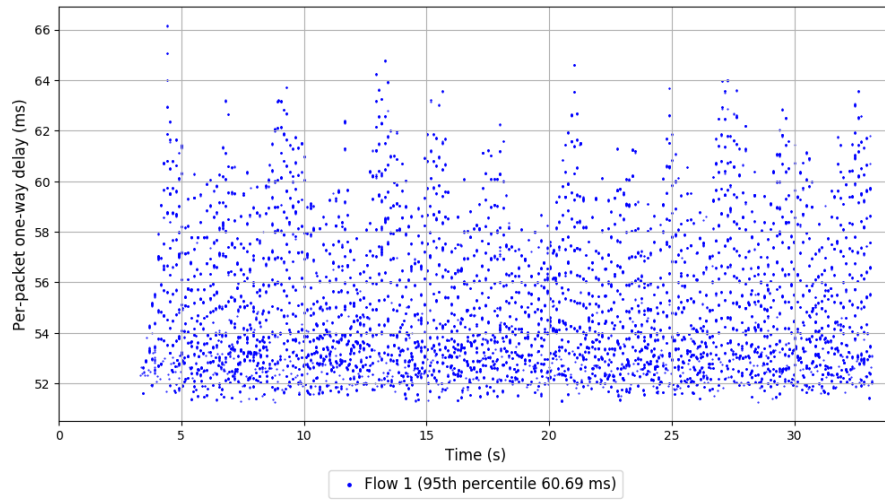
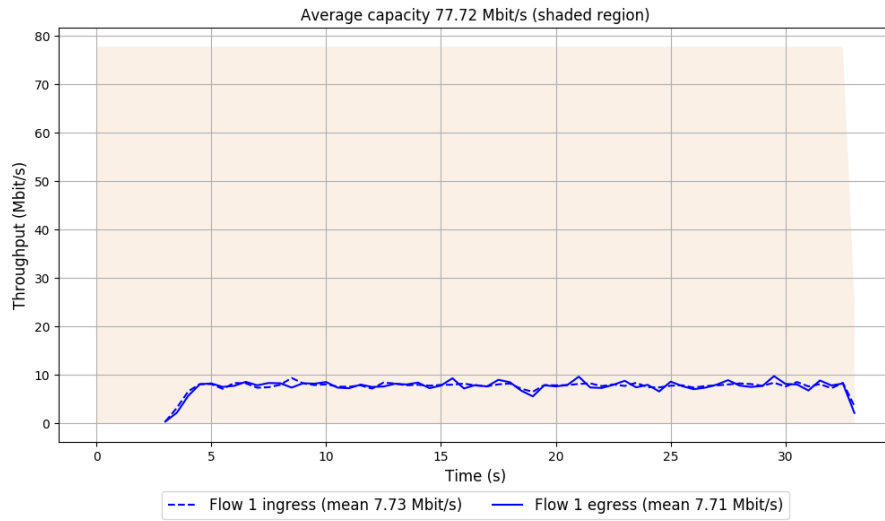
-- Flow 1:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 60.692 ms

Loss rate: 0.40%

# Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

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

End at: 2018-02-27 06:26:56

# Below is generated by plot.py at 2018-02-27 08:11:53

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 7.67 Mbit/s (9.9% utilization)

95th percentile per-packet one-way delay: 60.379 ms

Loss rate: 0.42%

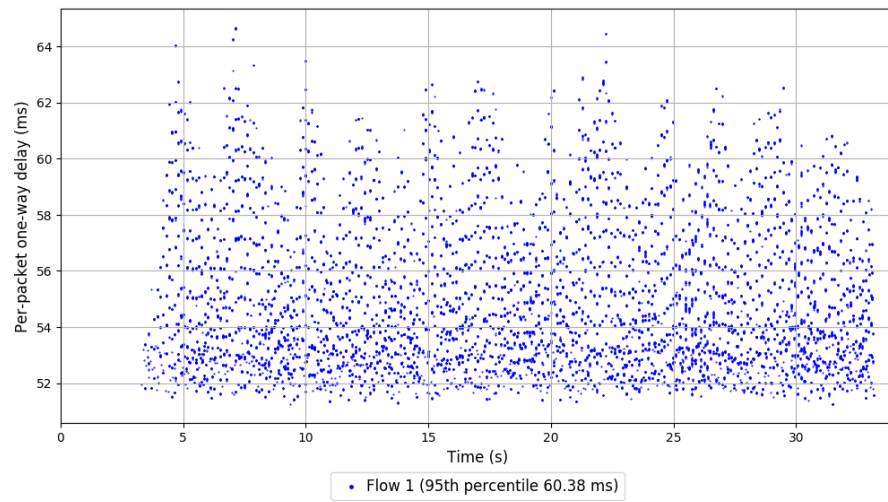
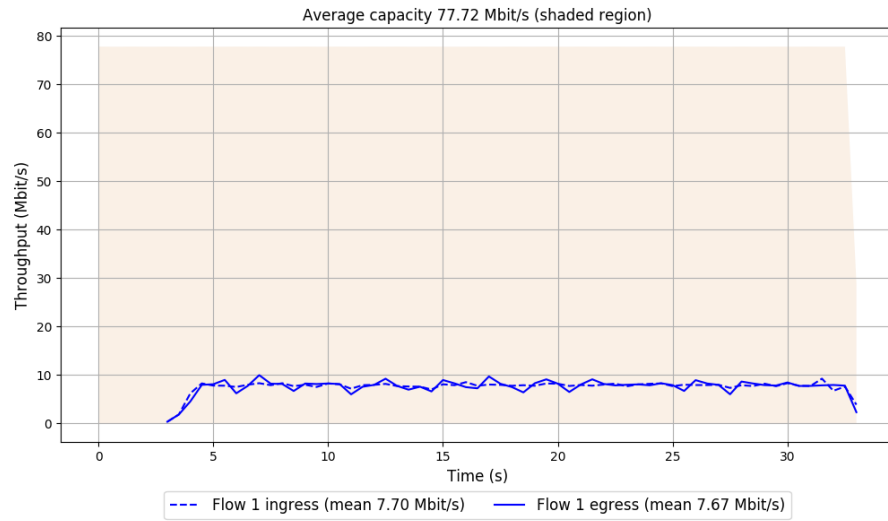
-- Flow 1:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 60.379 ms

Loss rate: 0.42%

## Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-27 06:37:59

End at: 2018-02-27 06:38:29

# Below is generated by plot.py at 2018-02-27 08:11:58

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 7.56 Mbit/s (9.7% utilization)

95th percentile per-packet one-way delay: 60.831 ms

Loss rate: 0.30%

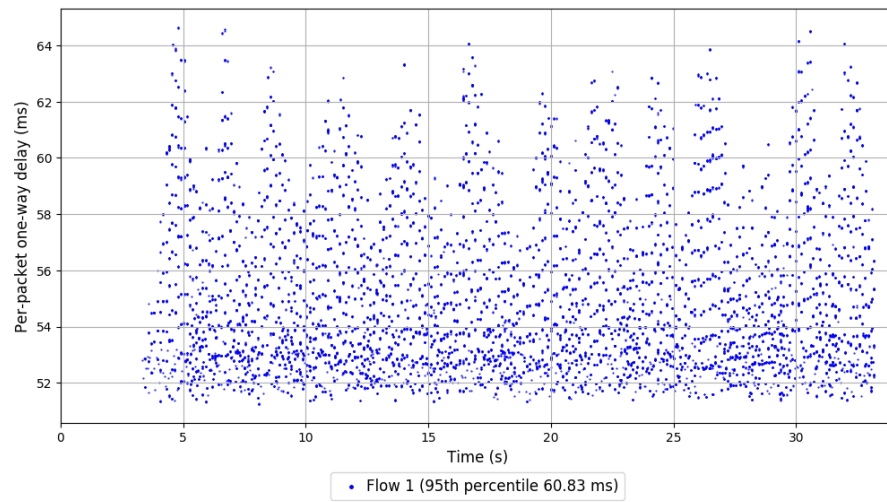
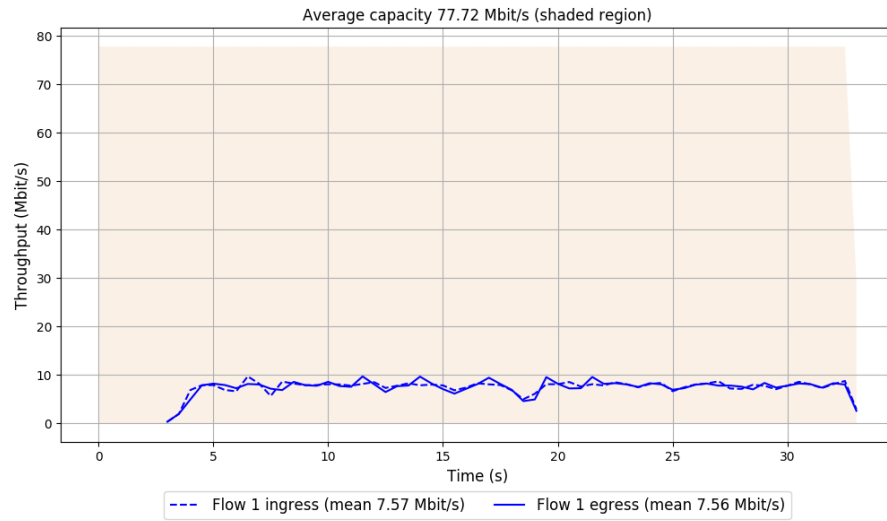
-- Flow 1:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 60.831 ms

Loss rate: 0.30%

### Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-27 06:49:29

End at: 2018-02-27 06:49:59

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

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 7.69 Mbit/s (9.9% utilization)

95th percentile per-packet one-way delay: 60.973 ms

Loss rate: 0.12%

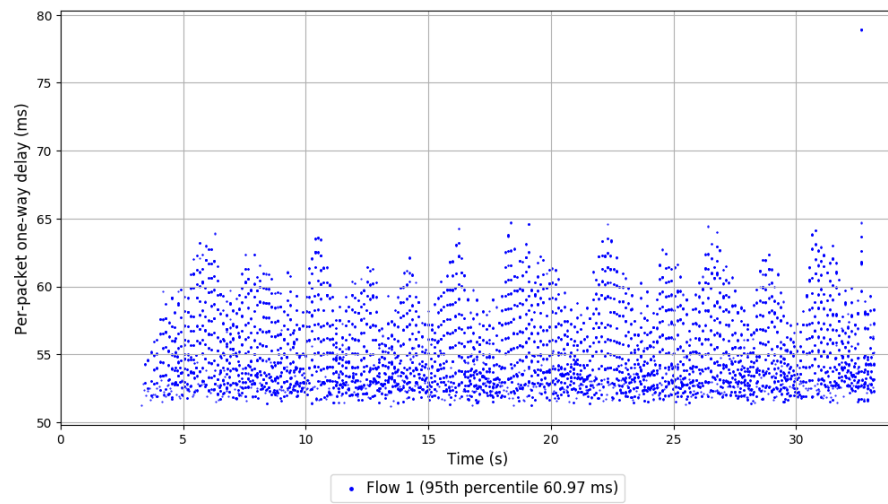
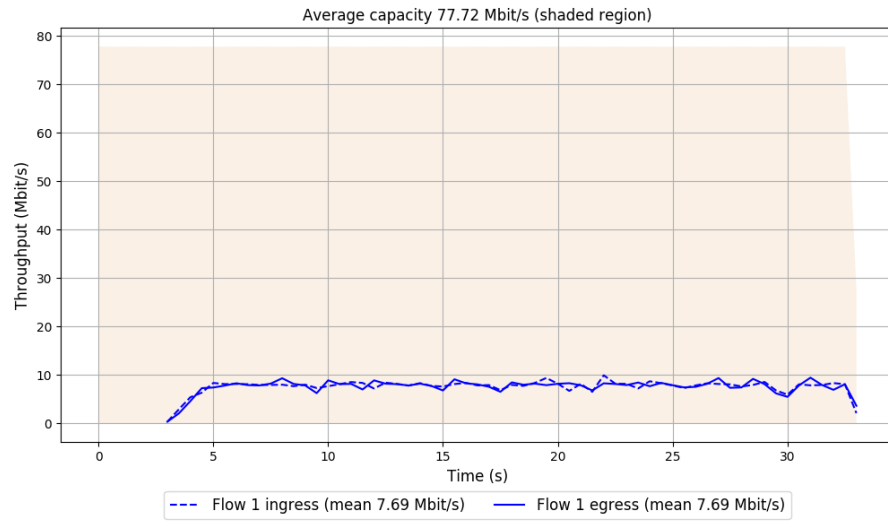
-- Flow 1:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 60.973 ms

Loss rate: 0.12%

## Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-27 07:00:59

End at: 2018-02-27 07:01:29

# Below is generated by plot.py at 2018-02-27 08:12:03

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 7.63 Mbit/s (9.8% utilization)

95th percentile per-packet one-way delay: 60.647 ms

Loss rate: 0.49%

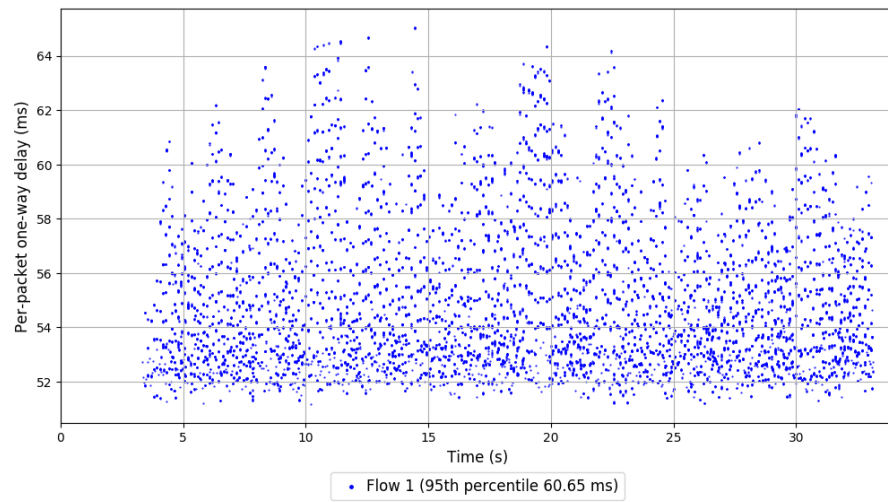
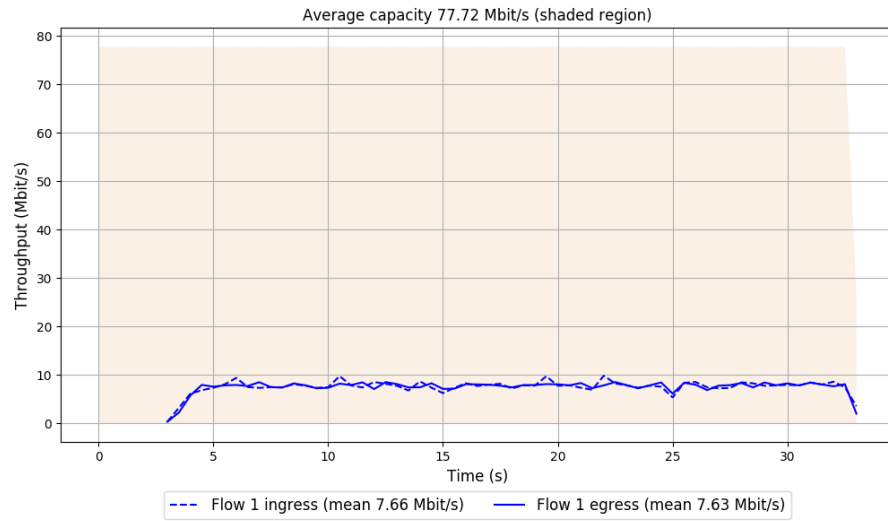
-- Flow 1:

Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 60.647 ms

Loss rate: 0.49%

## Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-27 07:12:19

End at: 2018-02-27 07:12:49

# Below is generated by plot.py at 2018-02-27 08:12:03

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 7.63 Mbit/s (9.8% utilization)

95th percentile per-packet one-way delay: 60.916 ms

Loss rate: 0.38%

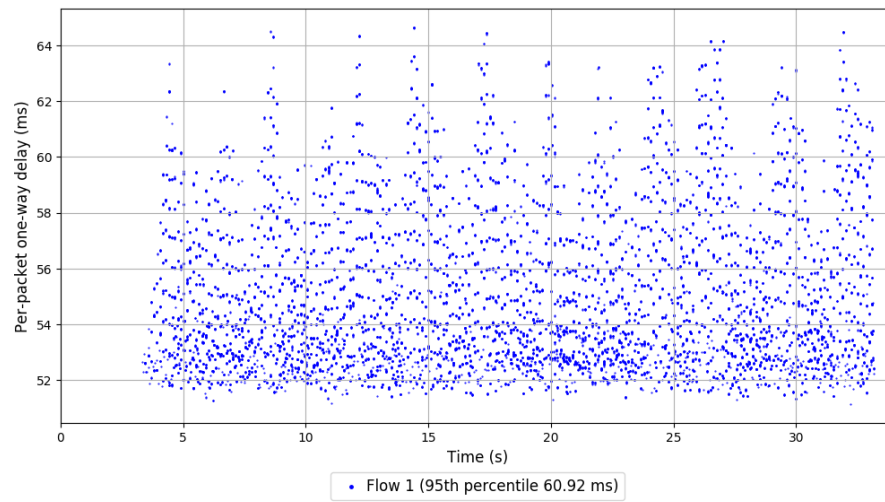
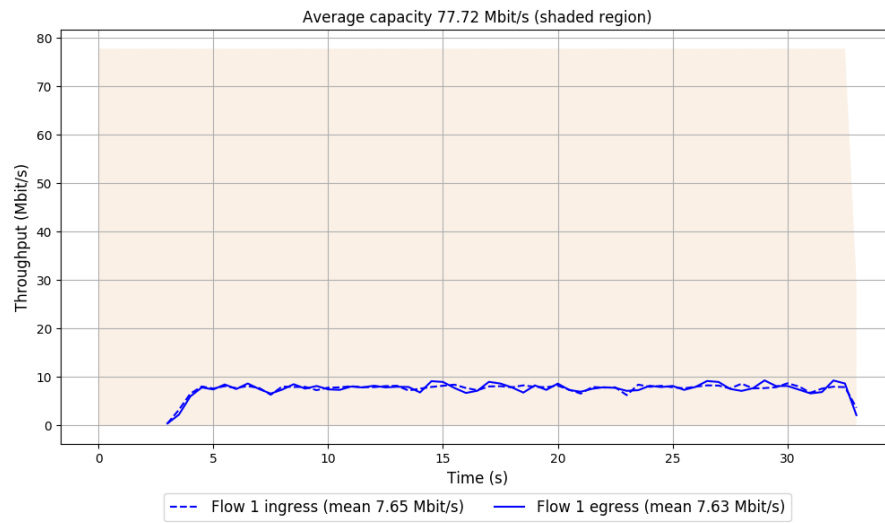
-- Flow 1:

Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 60.916 ms

Loss rate: 0.38%

## Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-27 07:23:50

End at: 2018-02-27 07:24:20

# Below is generated by plot.py at 2018-02-27 08:12:11

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 7.81 Mbit/s (10.1% utilization)

95th percentile per-packet one-way delay: 60.599 ms

Loss rate: 0.32%

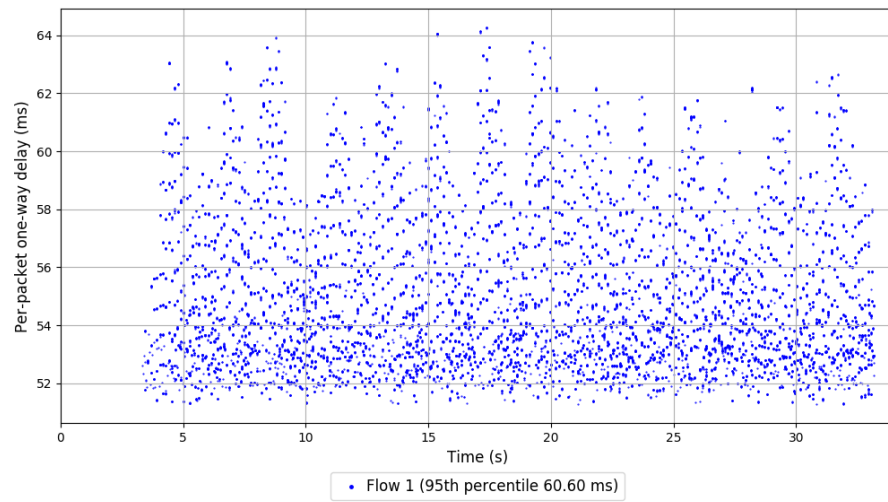
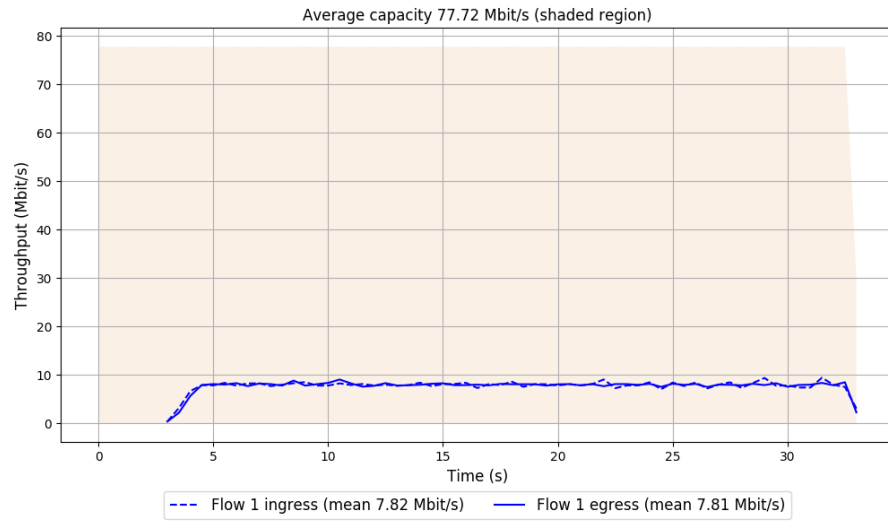
-- Flow 1:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 60.599 ms

Loss rate: 0.32%

## Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-27 07:35:04

End at: 2018-02-27 07:35:34

# Below is generated by plot.py at 2018-02-27 08:12:19

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 7.58 Mbit/s (9.8% utilization)

95th percentile per-packet one-way delay: 60.277 ms

Loss rate: 0.47%

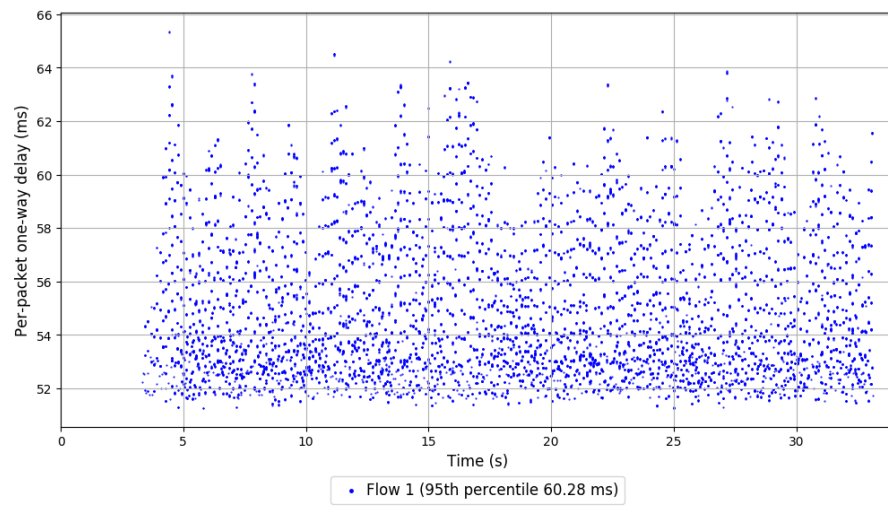
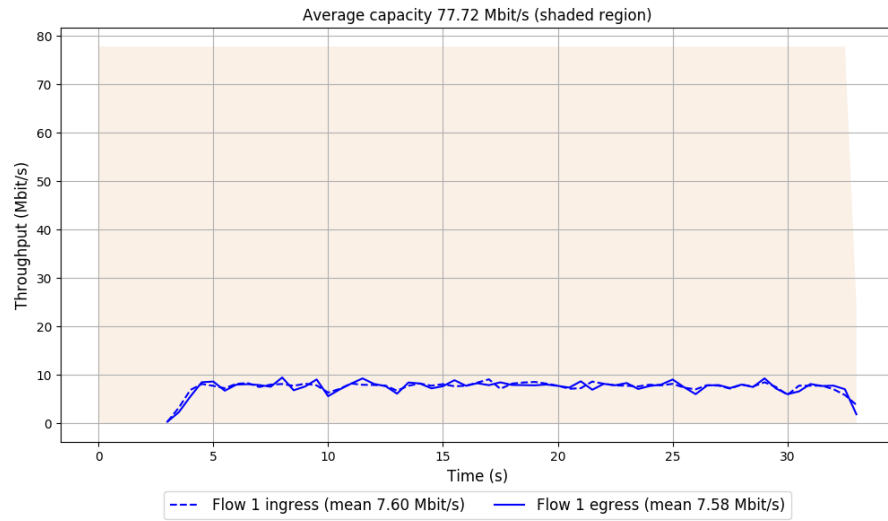
-- Flow 1:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 60.277 ms

Loss rate: 0.47%

## Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-27 07:46:33

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

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

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 7.64 Mbit/s (9.8% utilization)

95th percentile per-packet one-way delay: 59.993 ms

Loss rate: 0.14%

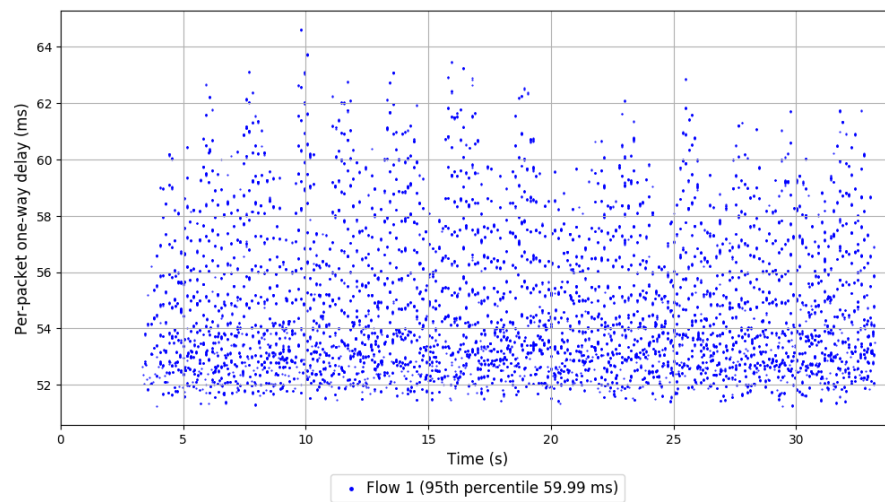
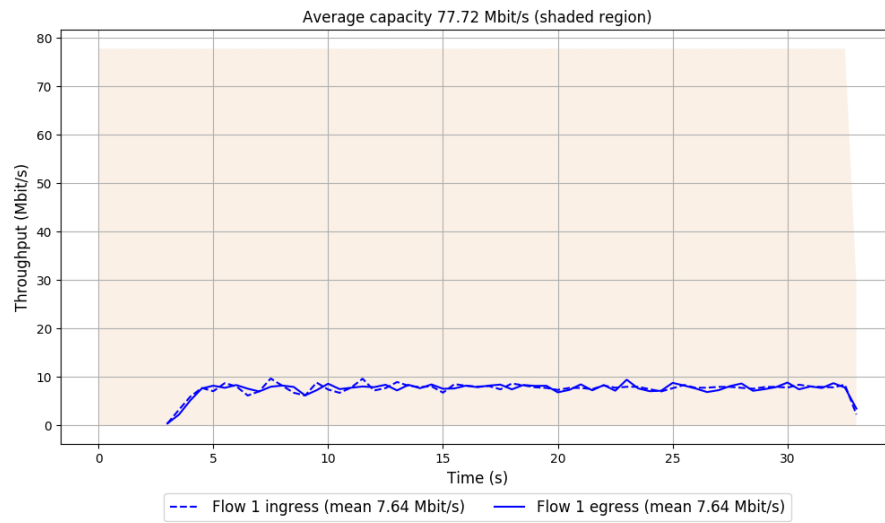
-- Flow 1:

Average throughput: 7.64 Mbit/s

95th percentile per-packet one-way delay: 59.993 ms

Loss rate: 0.14%

## Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-27 07:58:01

End at: 2018-02-27 07:58:31

# Below is generated by plot.py at 2018-02-27 08:12:28

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 7.54 Mbit/s (9.7% utilization)

95th percentile per-packet one-way delay: 60.358 ms

Loss rate: 0.36%

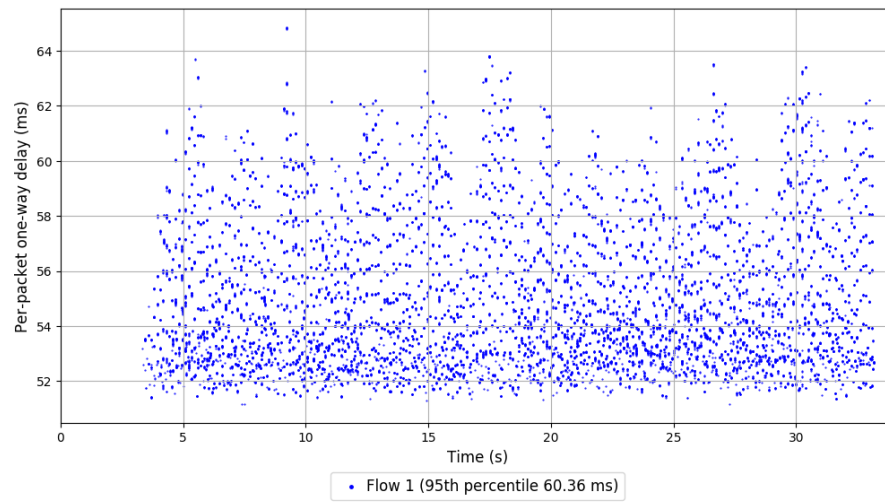
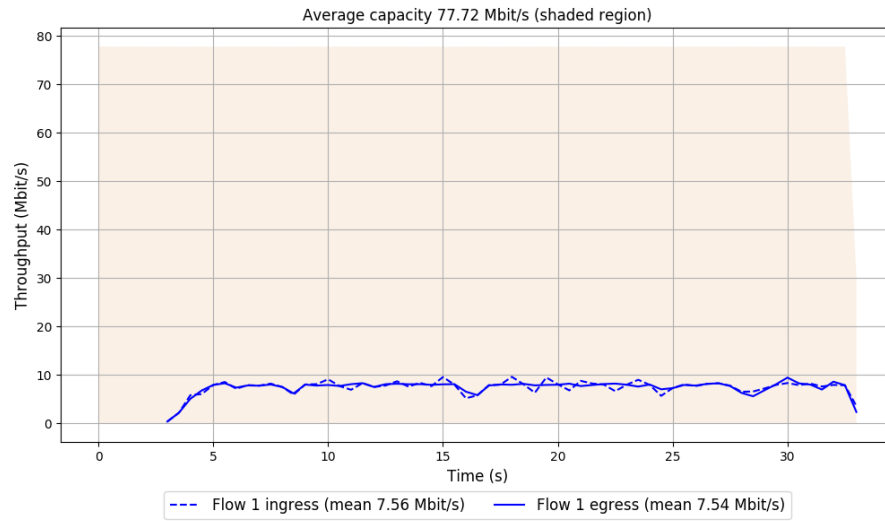
-- Flow 1:

Average throughput: 7.54 Mbit/s

95th percentile per-packet one-way delay: 60.358 ms

Loss rate: 0.36%

## Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-02-27 06:07:47

End at: 2018-02-27 06:08:17

# Below is generated by plot.py at 2018-02-27 08:14:58

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 76.40 Mbit/s (98.3% utilization)

95th percentile per-packet one-way delay: 59.580 ms

Loss rate: 12.02%

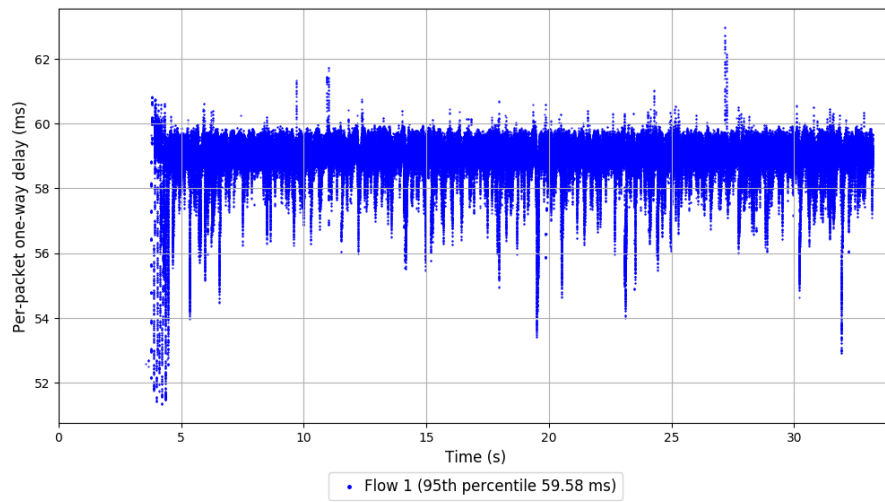
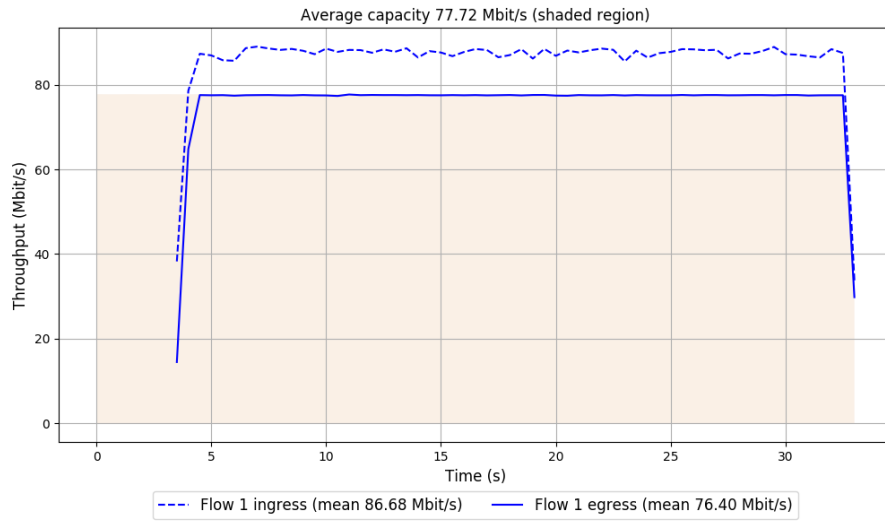
-- Flow 1:

Average throughput: 76.40 Mbit/s

95th percentile per-packet one-way delay: 59.580 ms

Loss rate: 12.02%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-02-27 06:19:13

End at: 2018-02-27 06:19:43

# Below is generated by plot.py at 2018-02-27 08:15:01

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 76.47 Mbit/s (98.4% utilization)

95th percentile per-packet one-way delay: 59.581 ms

Loss rate: 11.98%

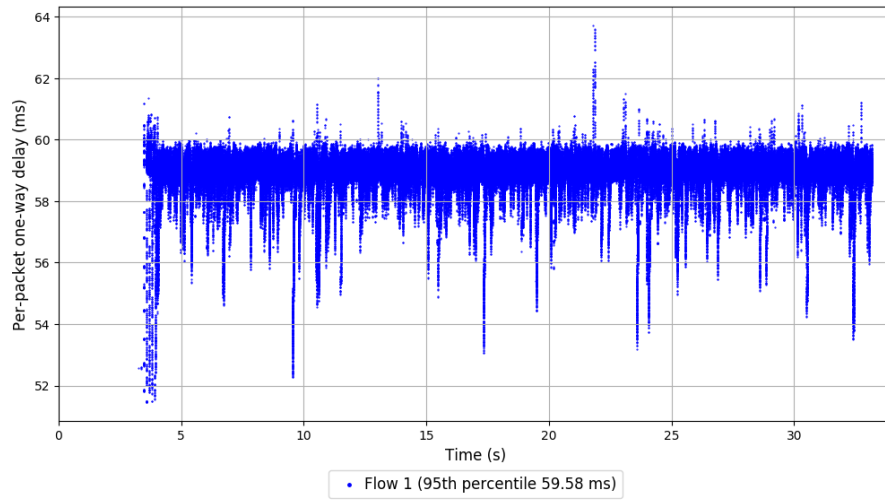
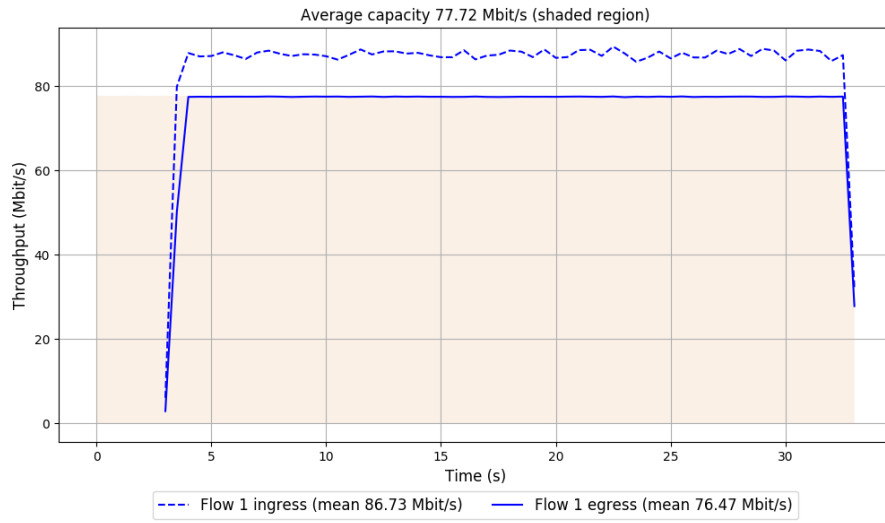
-- Flow 1:

Average throughput: 76.47 Mbit/s

95th percentile per-packet one-way delay: 59.581 ms

Loss rate: 11.98%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-27 06:30:49

End at: 2018-02-27 06:31:19

# Below is generated by plot.py at 2018-02-27 08:15:01

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 76.10 Mbit/s (97.9% utilization)

95th percentile per-packet one-way delay: 59.599 ms

Loss rate: 11.97%

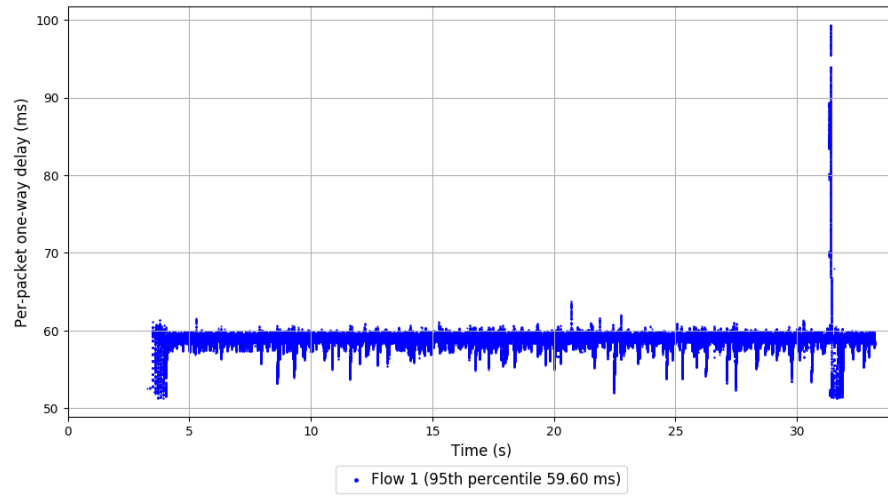
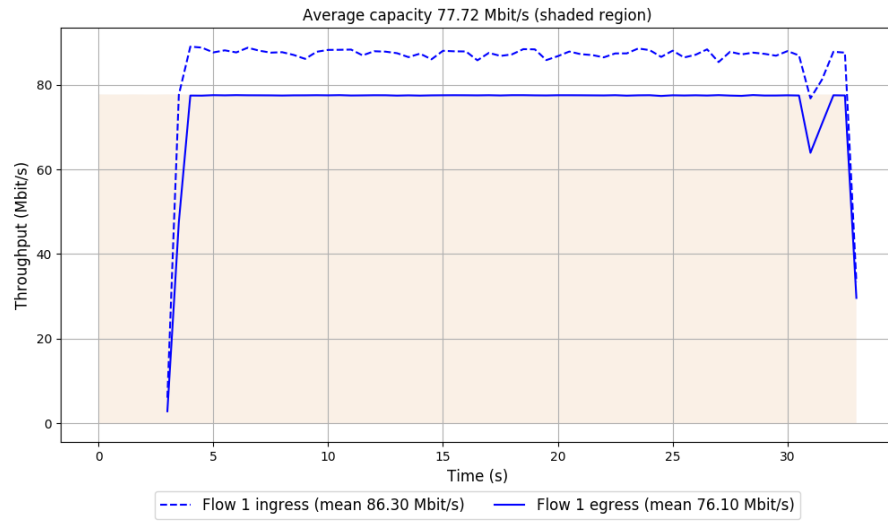
-- Flow 1:

Average throughput: 76.10 Mbit/s

95th percentile per-packet one-way delay: 59.599 ms

Loss rate: 11.97%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-27 06:42:20

End at: 2018-02-27 06:42:50

# Below is generated by plot.py at 2018-02-27 08:15:03

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 76.19 Mbit/s (98.0% utilization)

95th percentile per-packet one-way delay: 59.585 ms

Loss rate: 11.79%

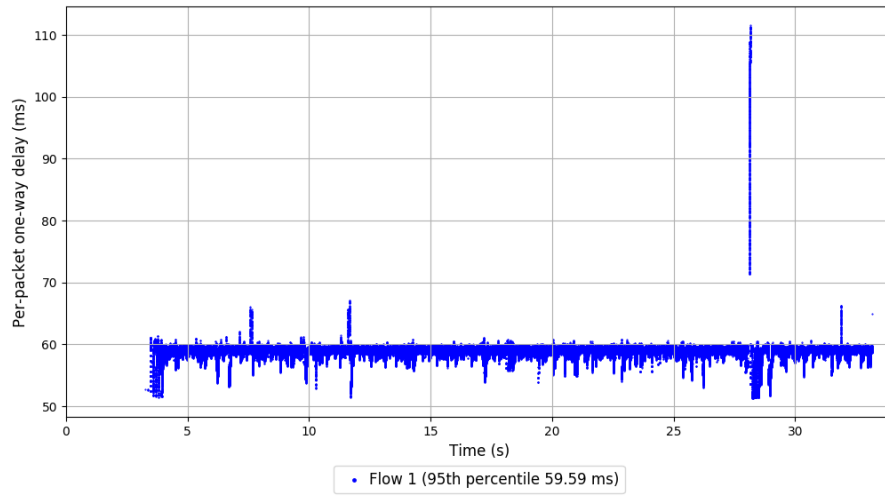
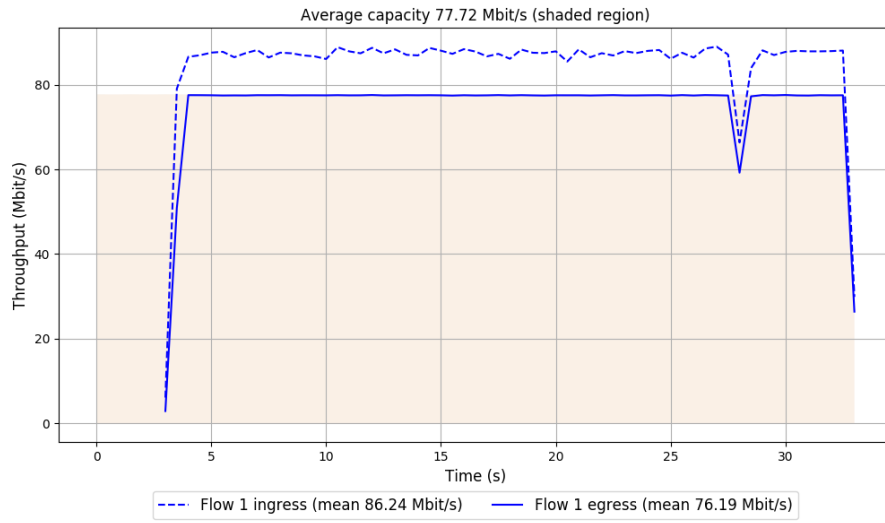
-- Flow 1:

Average throughput: 76.19 Mbit/s

95th percentile per-packet one-way delay: 59.585 ms

Loss rate: 11.79%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-27 06:53:50

End at: 2018-02-27 06:54:20

# Below is generated by plot.py at 2018-02-27 08:15:09

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 76.30 Mbit/s (98.2% utilization)

95th percentile per-packet one-way delay: 59.612 ms

Loss rate: 11.75%

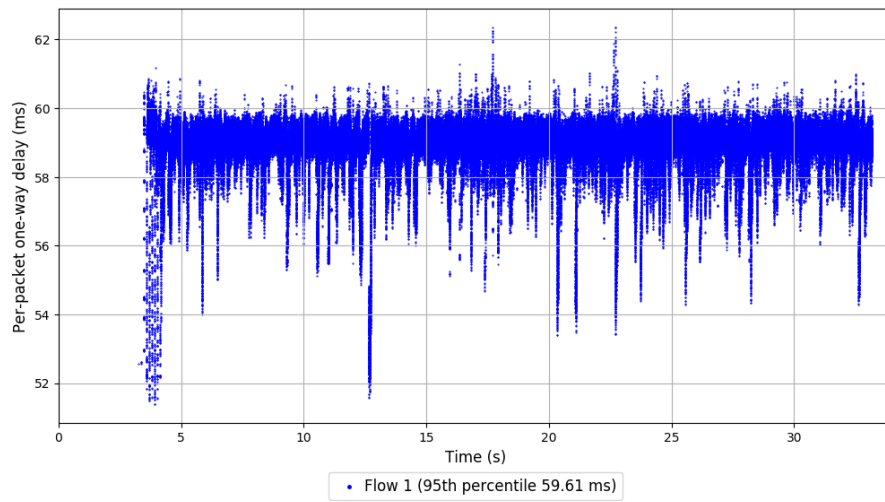
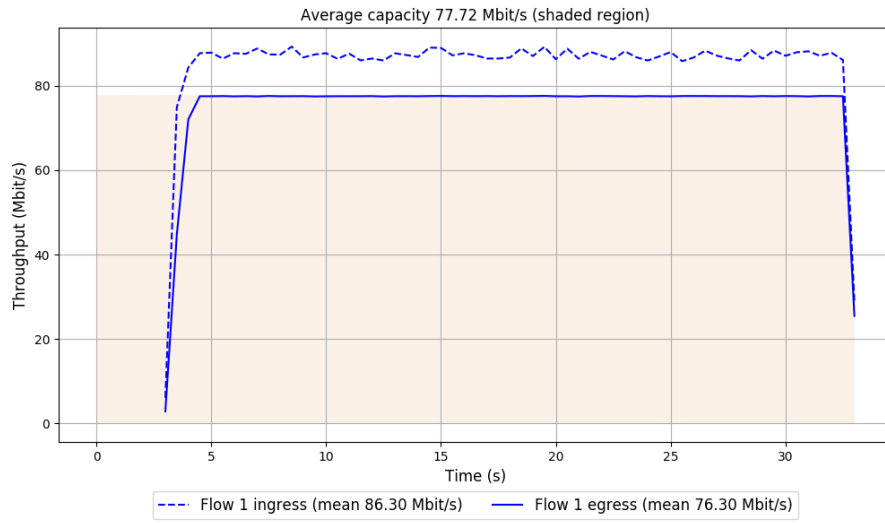
-- Flow 1:

Average throughput: 76.30 Mbit/s

95th percentile per-packet one-way delay: 59.612 ms

Loss rate: 11.75%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-27 07:05:22

End at: 2018-02-27 07:05:52

# Below is generated by plot.py at 2018-02-27 08:15:16

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 76.16 Mbit/s (98.0% utilization)

95th percentile per-packet one-way delay: 59.601 ms

Loss rate: 12.39%

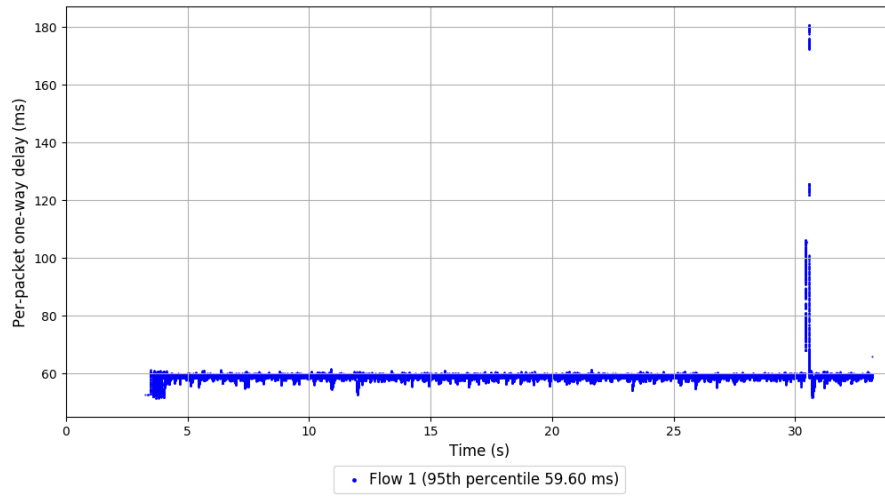
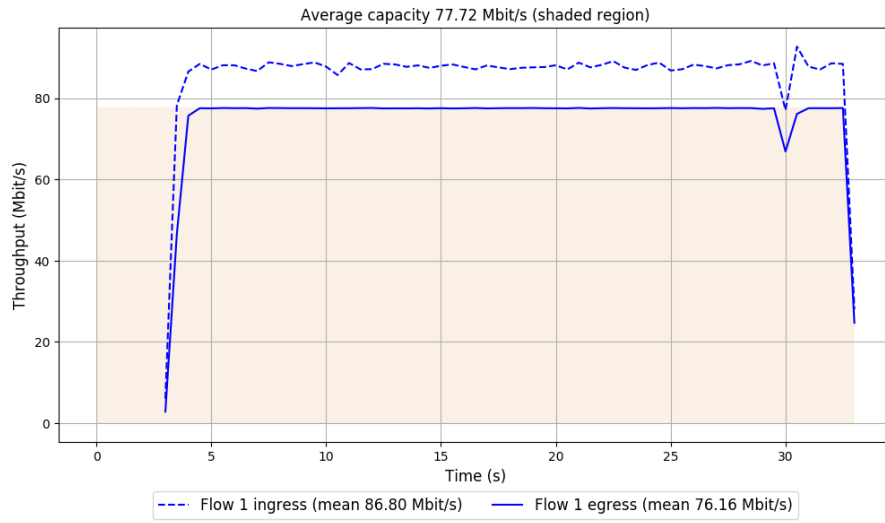
-- Flow 1:

Average throughput: 76.16 Mbit/s

95th percentile per-packet one-way delay: 59.601 ms

Loss rate: 12.39%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-27 07:16:42

End at: 2018-02-27 07:17:12

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

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 75.91 Mbit/s (97.7% utilization)

95th percentile per-packet one-way delay: 59.595 ms

Loss rate: 12.18%

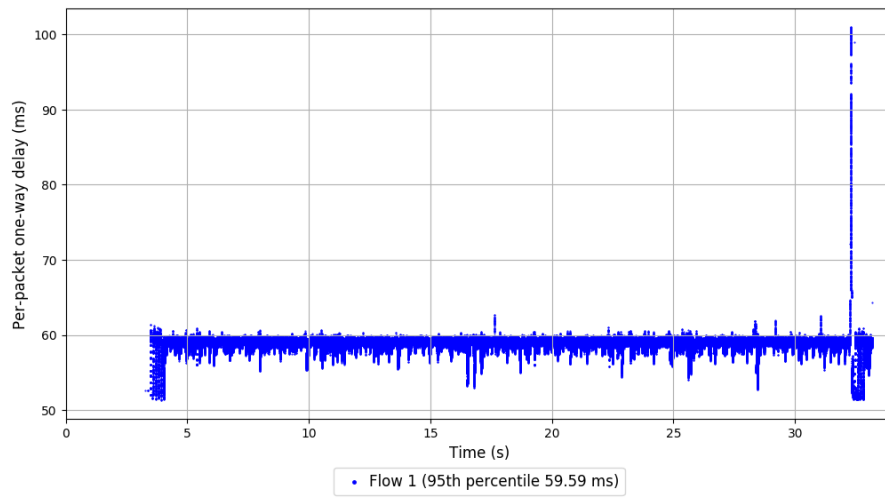
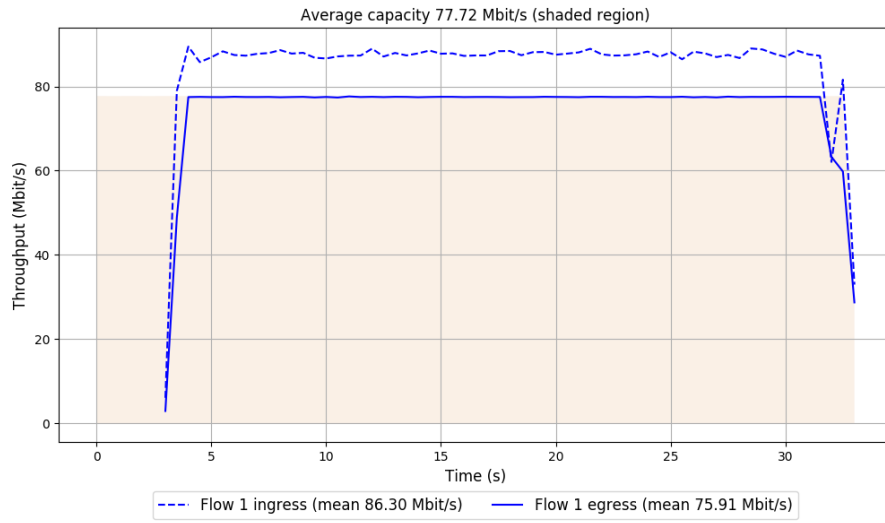
-- Flow 1:

Average throughput: 75.91 Mbit/s

95th percentile per-packet one-way delay: 59.595 ms

Loss rate: 12.18%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-27 07:28:10

End at: 2018-02-27 07:28:40

# Below is generated by plot.py at 2018-02-27 08:15:23

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 76.34 Mbit/s (98.2% utilization)

95th percentile per-packet one-way delay: 59.606 ms

Loss rate: 12.02%

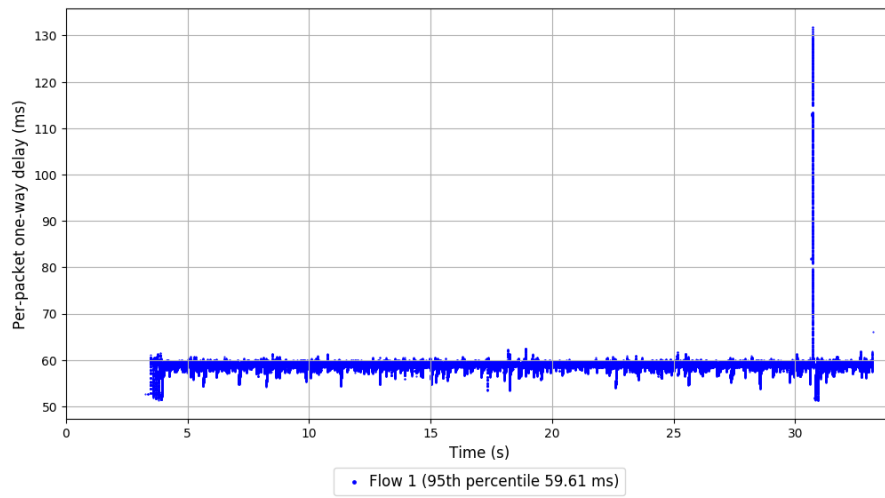
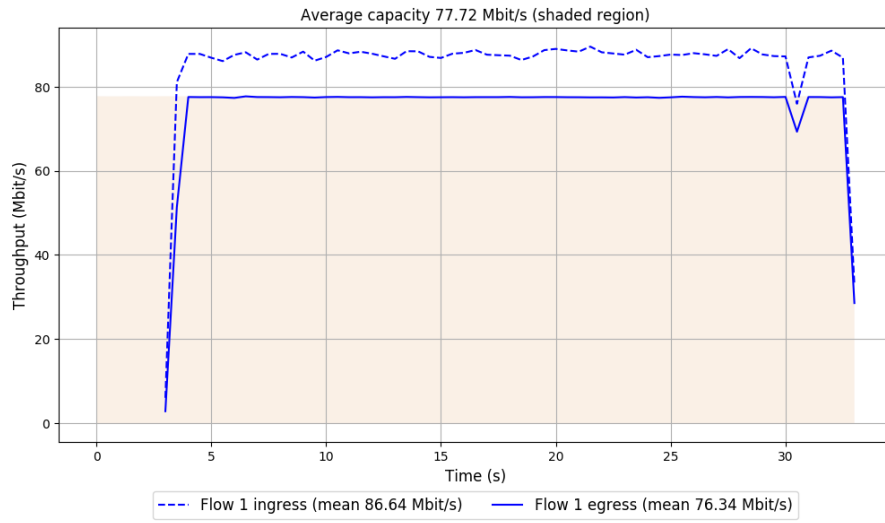
-- Flow 1:

Average throughput: 76.34 Mbit/s

95th percentile per-packet one-way delay: 59.606 ms

Loss rate: 12.02%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-27 07:39:24

End at: 2018-02-27 07:39:54

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

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 76.27 Mbit/s (98.1% utilization)

95th percentile per-packet one-way delay: 59.596 ms

Loss rate: 11.85%

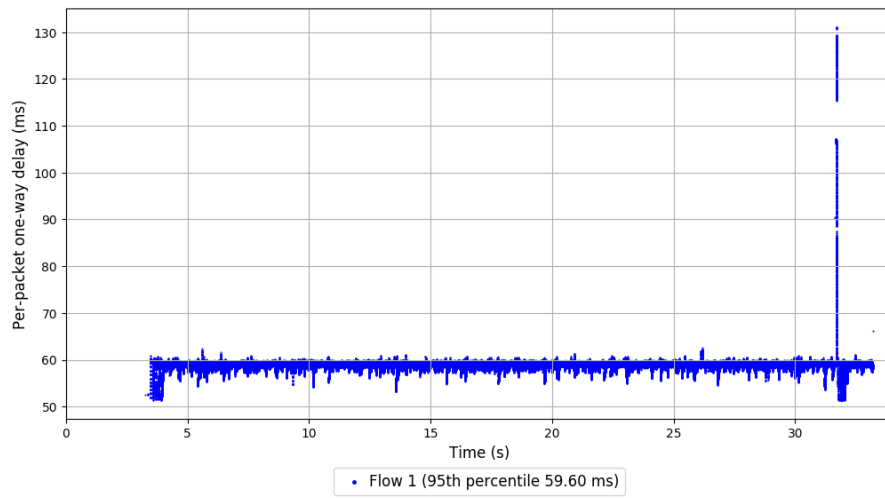
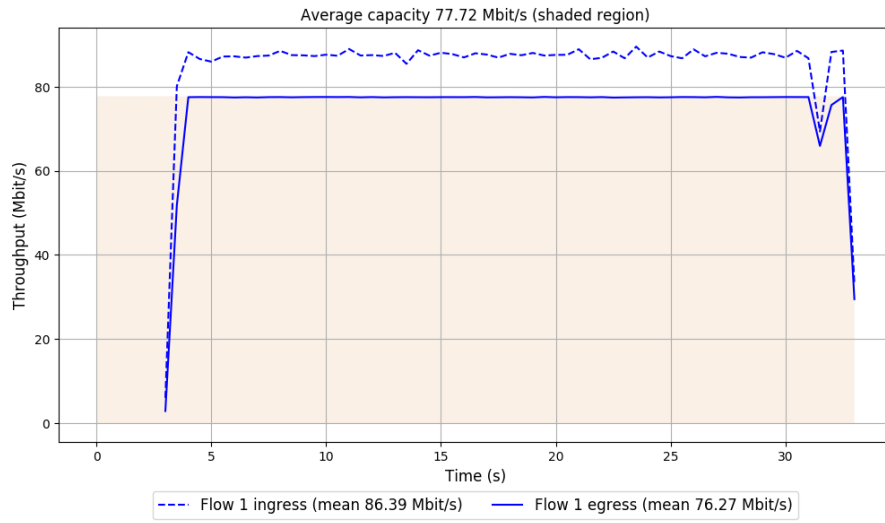
-- Flow 1:

Average throughput: 76.27 Mbit/s

95th percentile per-packet one-way delay: 59.596 ms

Loss rate: 11.85%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-02-27 07:50:55

End at: 2018-02-27 07:51:25

# Below is generated by plot.py at 2018-02-27 08:17:32

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 76.42 Mbit/s (98.3% utilization)

95th percentile per-packet one-way delay: 59.574 ms

Loss rate: 12.07%

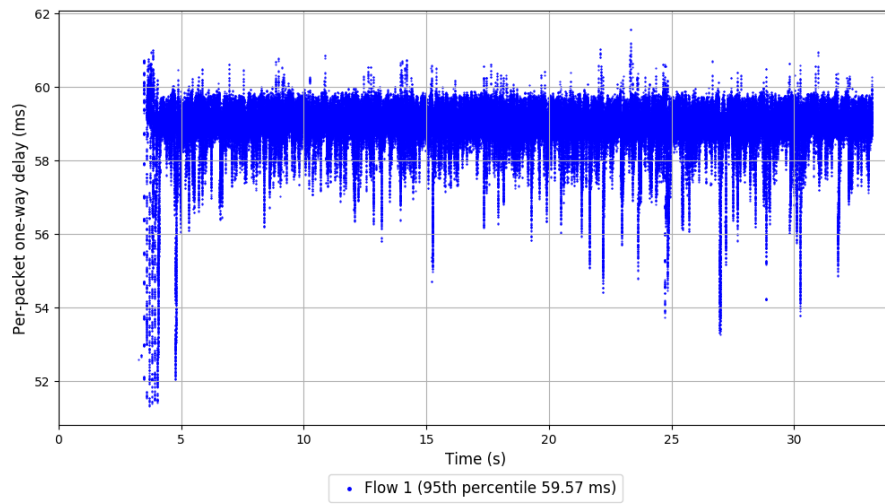
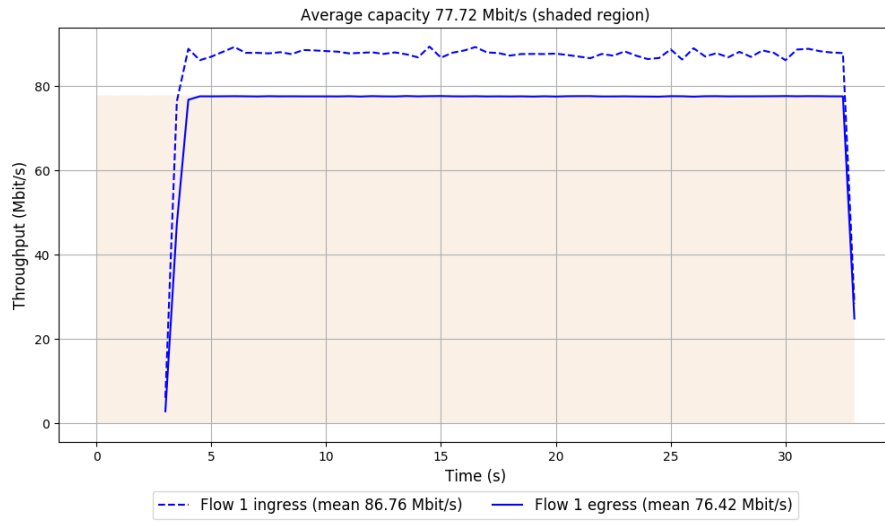
-- Flow 1:

Average throughput: 76.42 Mbit/s

95th percentile per-packet one-way delay: 59.574 ms

Loss rate: 12.07%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-27 06:16:41

End at: 2018-02-27 06:17:11

# Below is generated by plot.py at 2018-02-27 08:17:32

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 6.09 Mbit/s (7.8% utilization)

95th percentile per-packet one-way delay: 54.082 ms

Loss rate: 0.70%

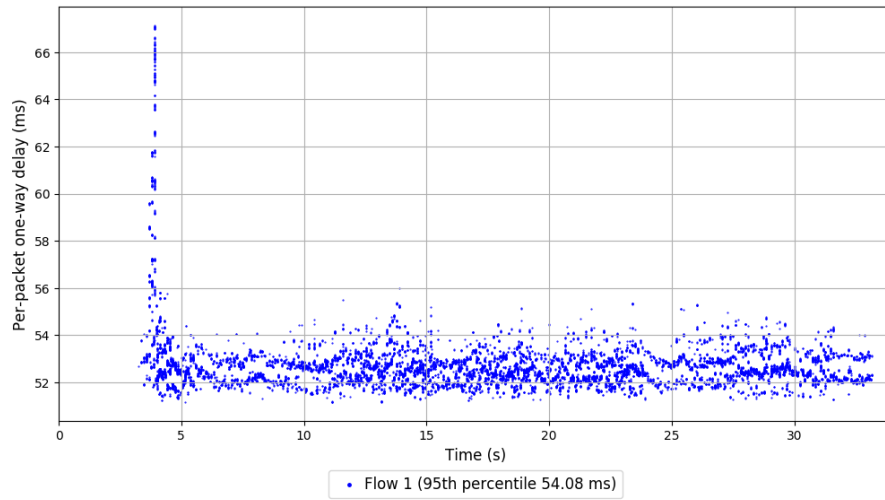
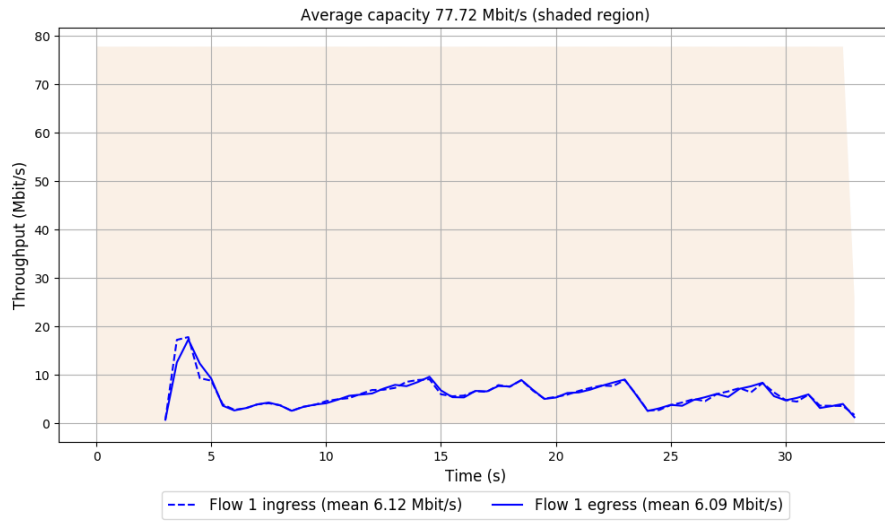
-- Flow 1:

Average throughput: 6.09 Mbit/s

95th percentile per-packet one-way delay: 54.082 ms

Loss rate: 0.70%

# Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-27 06:28:14

End at: 2018-02-27 06:28:45

# Below is generated by plot.py at 2018-02-27 08:17:32

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 8.09 Mbit/s (10.4% utilization)

95th percentile per-packet one-way delay: 54.372 ms

Loss rate: 0.92%

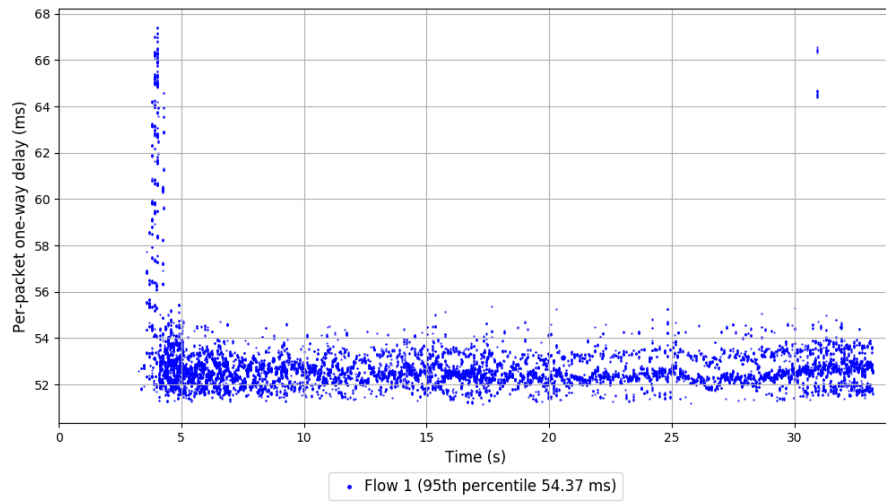
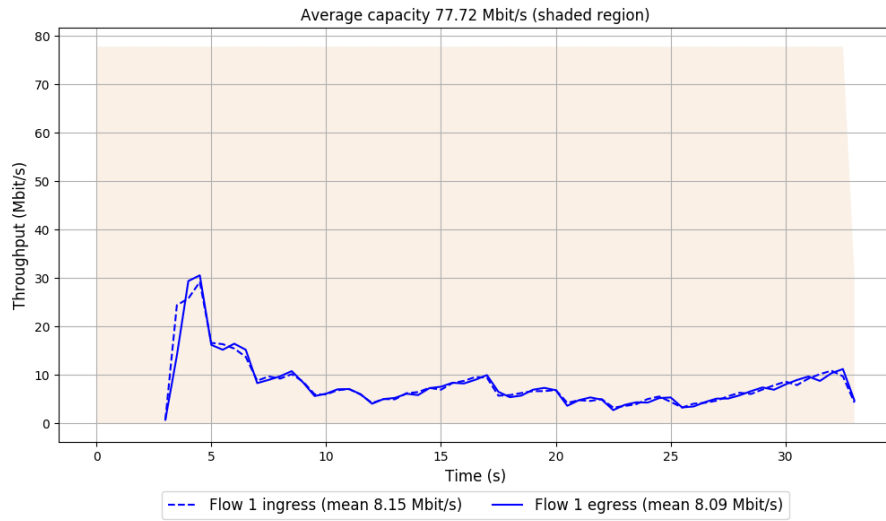
-- Flow 1:

Average throughput: 8.09 Mbit/s

95th percentile per-packet one-way delay: 54.372 ms

Loss rate: 0.92%

## Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-27 06:39:48

End at: 2018-02-27 06:40:18

# Below is generated by plot.py at 2018-02-27 08:17:32

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 7.10 Mbit/s (9.1% utilization)

95th percentile per-packet one-way delay: 53.920 ms

Loss rate: 0.67%

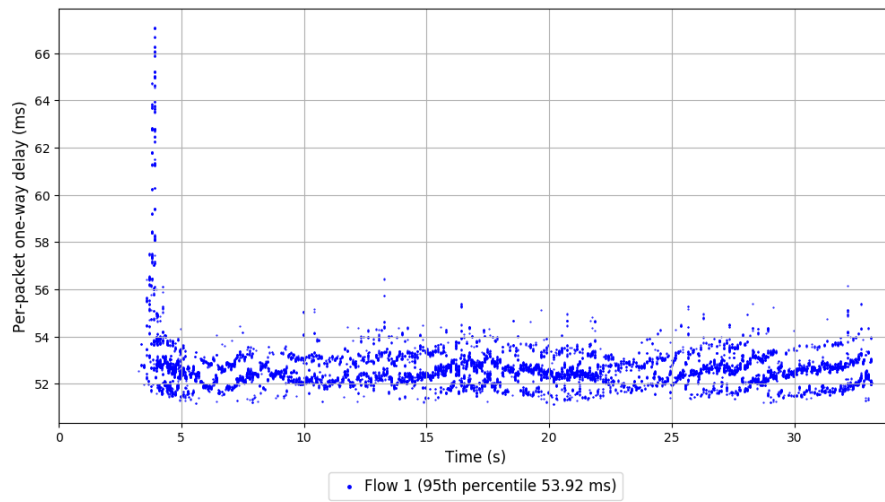
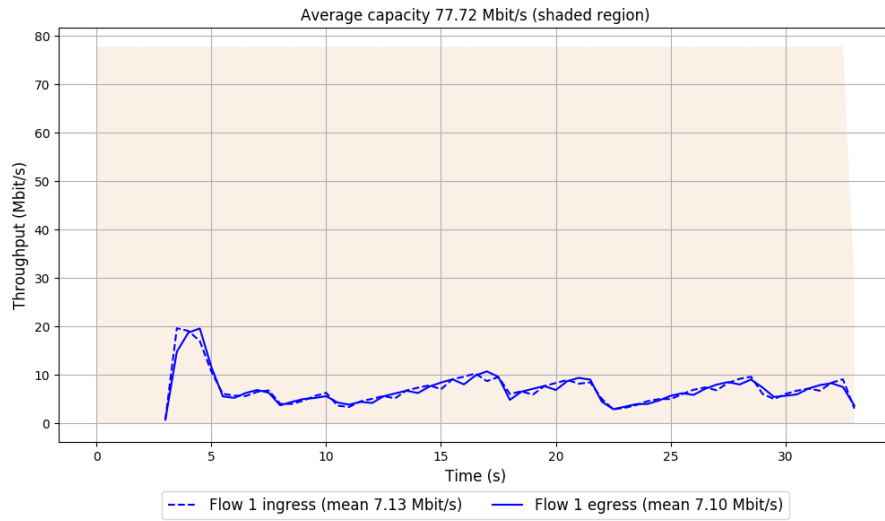
-- Flow 1:

Average throughput: 7.10 Mbit/s

95th percentile per-packet one-way delay: 53.920 ms

Loss rate: 0.67%

### Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

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

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

# Below is generated by plot.py at 2018-02-27 08:17:32

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 6.28 Mbit/s (8.1% utilization)

95th percentile per-packet one-way delay: 54.747 ms

Loss rate: 1.06%

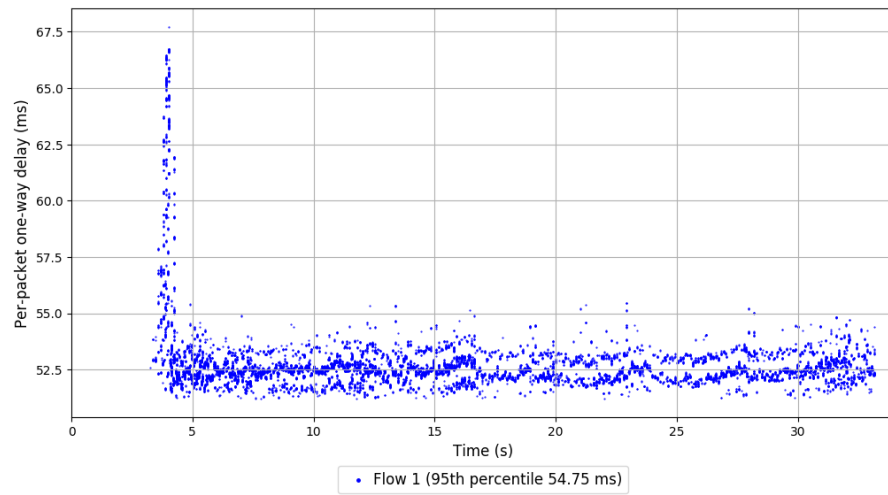
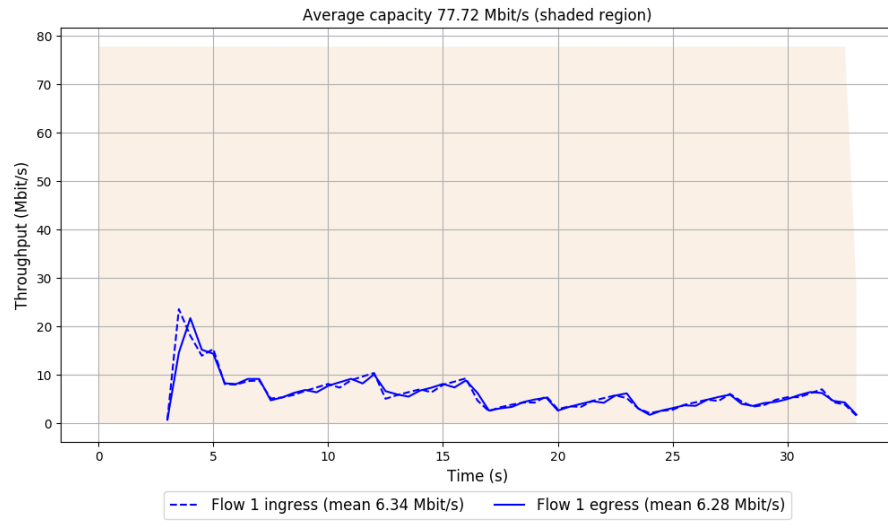
-- Flow 1:

Average throughput: 6.28 Mbit/s

95th percentile per-packet one-way delay: 54.747 ms

Loss rate: 1.06%

### Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

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

End at: 2018-02-27 07:03:18

# Below is generated by plot.py at 2018-02-27 08:17:32

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 8.56 Mbit/s (11.0% utilization)

95th percentile per-packet one-way delay: 54.783 ms

Loss rate: 0.81%

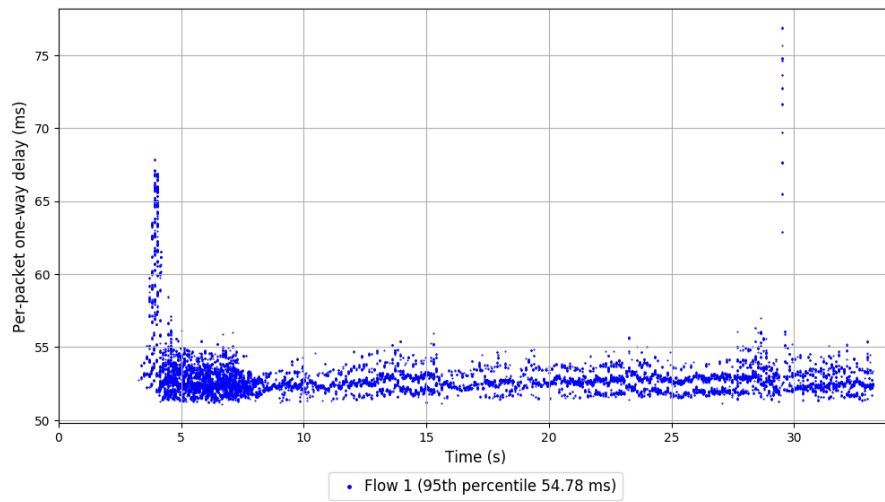
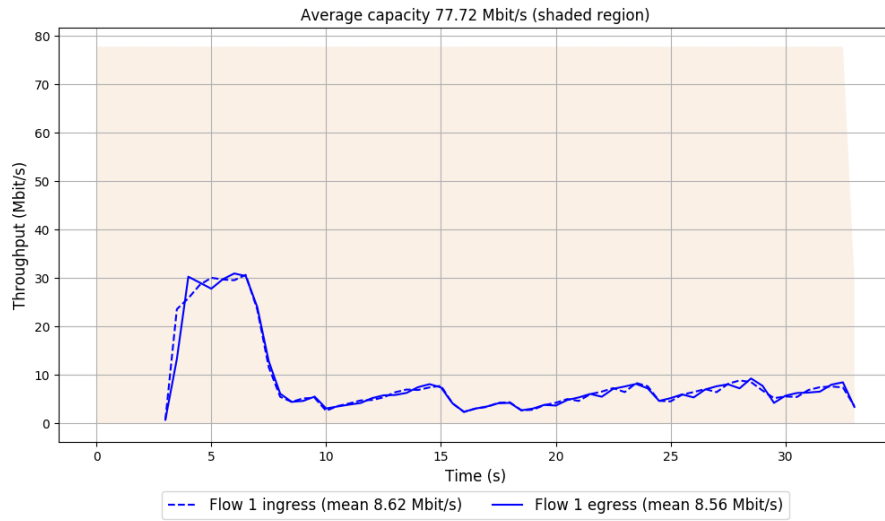
-- Flow 1:

Average throughput: 8.56 Mbit/s

95th percentile per-packet one-way delay: 54.783 ms

Loss rate: 0.81%

### Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

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

End at: 2018-02-27 07:14:37

# Below is generated by plot.py at 2018-02-27 08:17:32

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 6.26 Mbit/s (8.0% utilization)

95th percentile per-packet one-way delay: 53.787 ms

Loss rate: 0.25%

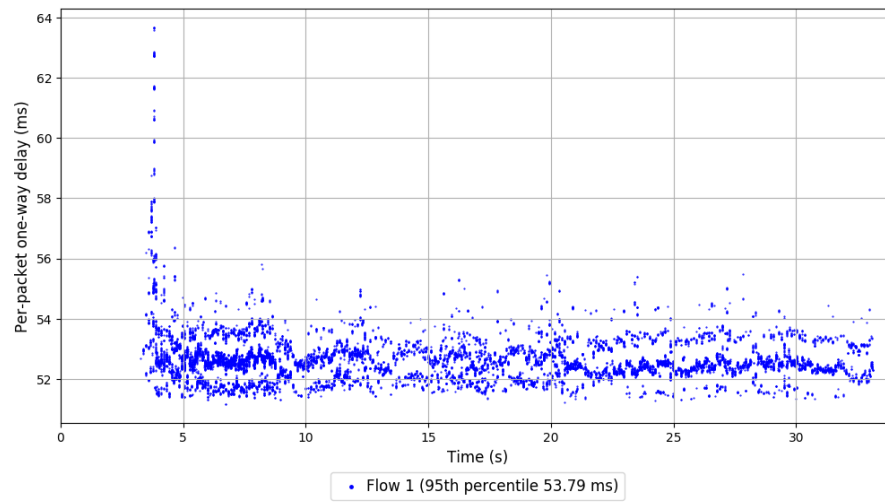
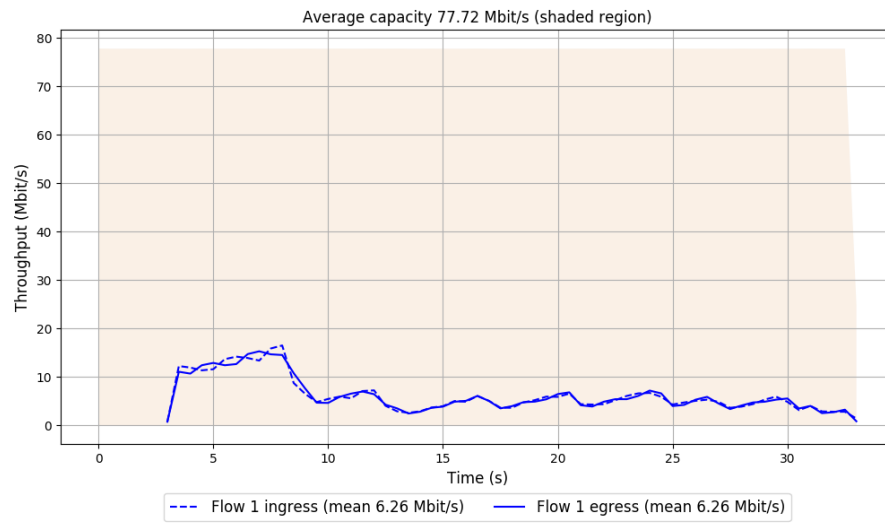
-- Flow 1:

Average throughput: 6.26 Mbit/s

95th percentile per-packet one-way delay: 53.787 ms

Loss rate: 0.25%

## Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-27 07:25:38

End at: 2018-02-27 07:26:08

# Below is generated by plot.py at 2018-02-27 08:17:32

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 5.41 Mbit/s (7.0% utilization)

95th percentile per-packet one-way delay: 54.828 ms

Loss rate: 0.85%

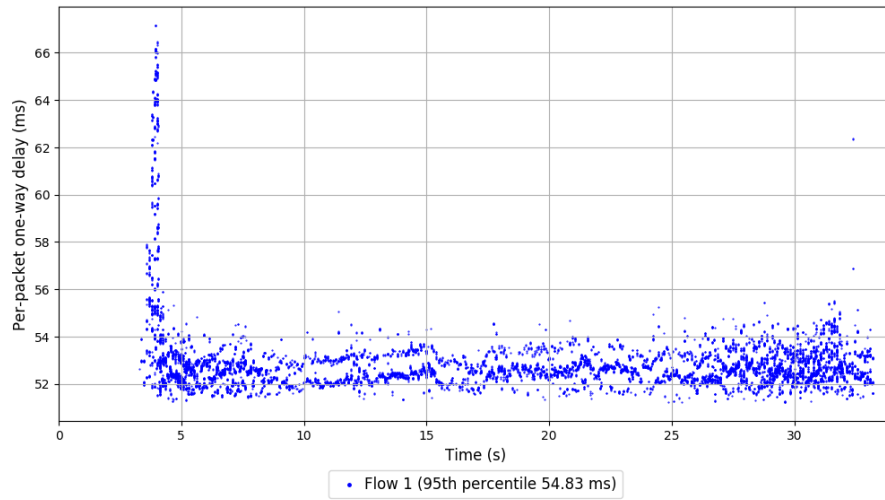
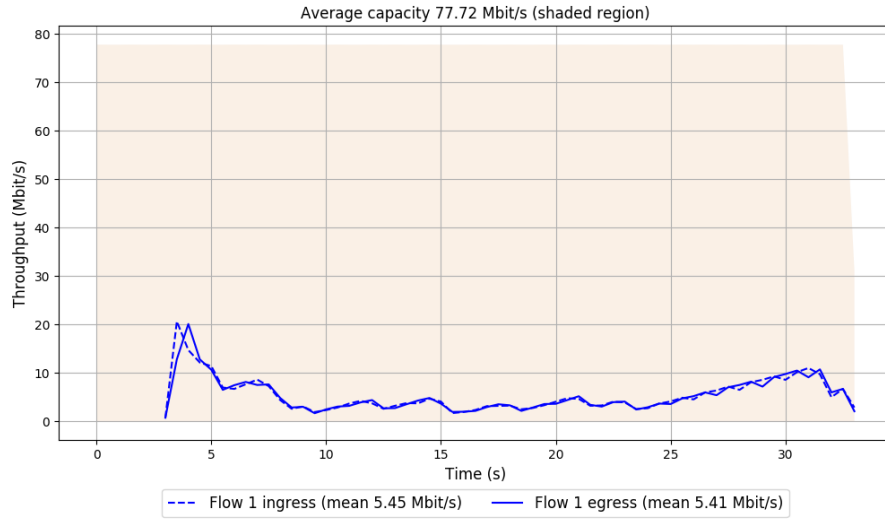
-- Flow 1:

Average throughput: 5.41 Mbit/s

95th percentile per-packet one-way delay: 54.828 ms

Loss rate: 0.85%

### Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-27 07:36:52

End at: 2018-02-27 07:37:22

# Below is generated by plot.py at 2018-02-27 08:17:32

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 6.54 Mbit/s (8.4% utilization)

95th percentile per-packet one-way delay: 54.183 ms

Loss rate: 0.49%

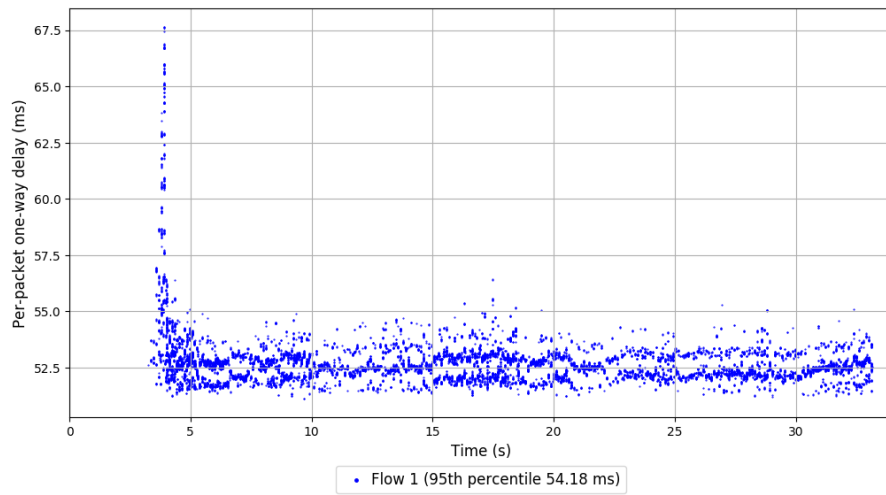
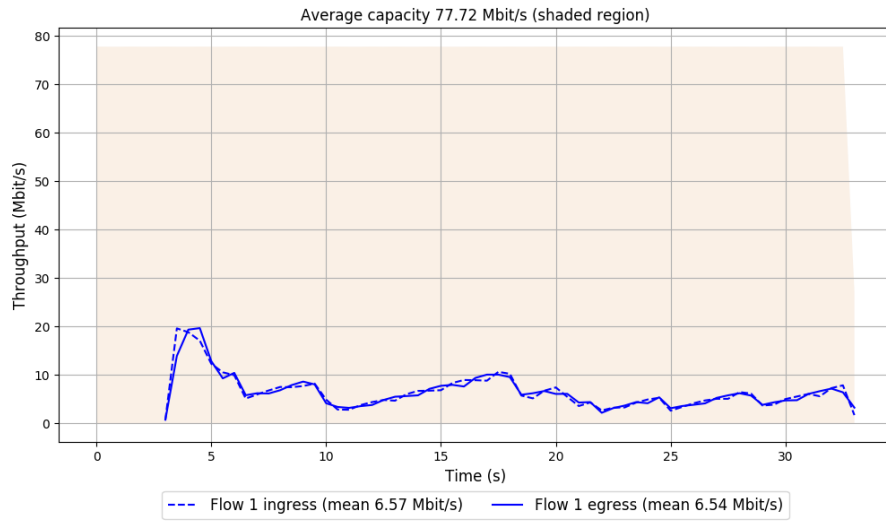
-- Flow 1:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 54.183 ms

Loss rate: 0.49%

### Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-27 07:48:21

End at: 2018-02-27 07:48:51

# Below is generated by plot.py at 2018-02-27 08:17:32

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 9.52 Mbit/s (12.3% utilization)

95th percentile per-packet one-way delay: 54.444 ms

Loss rate: 0.84%

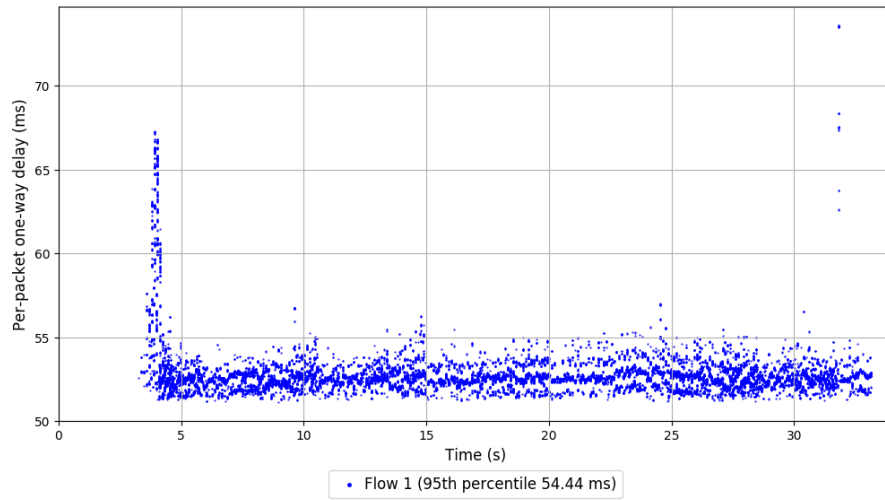
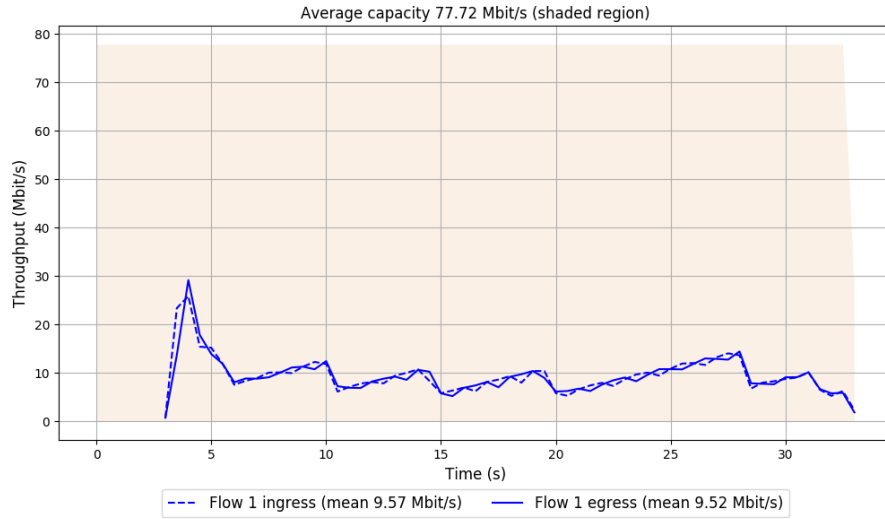
-- Flow 1:

Average throughput: 9.52 Mbit/s

95th percentile per-packet one-way delay: 54.444 ms

Loss rate: 0.84%

### Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-27 07:59:49

End at: 2018-02-27 08:00:19

# Below is generated by plot.py at 2018-02-27 08:17:32

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 7.58 Mbit/s (9.8% utilization)

95th percentile per-packet one-way delay: 54.193 ms

Loss rate: 0.60%

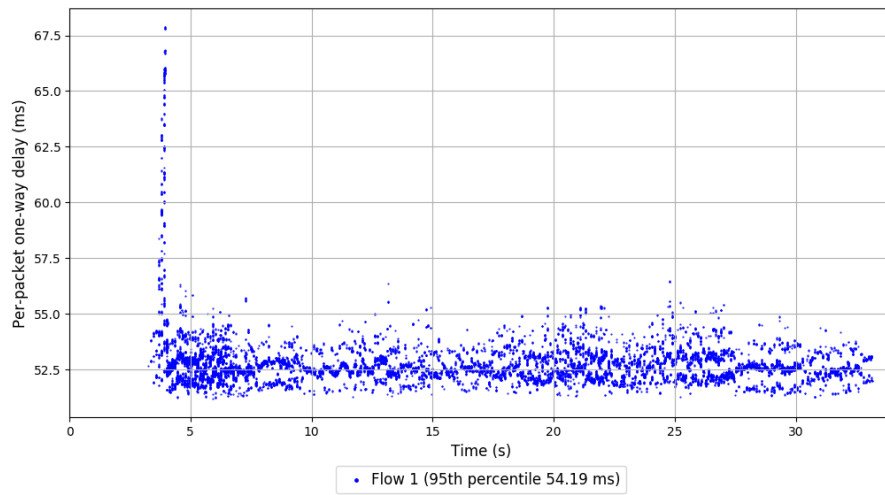
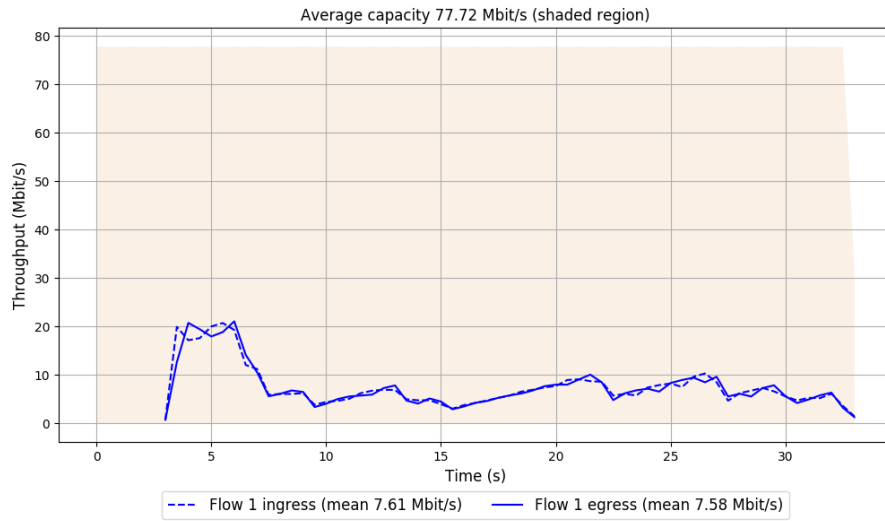
-- Flow 1:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 54.193 ms

Loss rate: 0.60%

### Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

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

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

# Below is generated by plot.py at 2018-02-27 08:17:44

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 35.58 Mbit/s (45.8% utilization)

95th percentile per-packet one-way delay: 66.882 ms

Loss rate: 84.17%

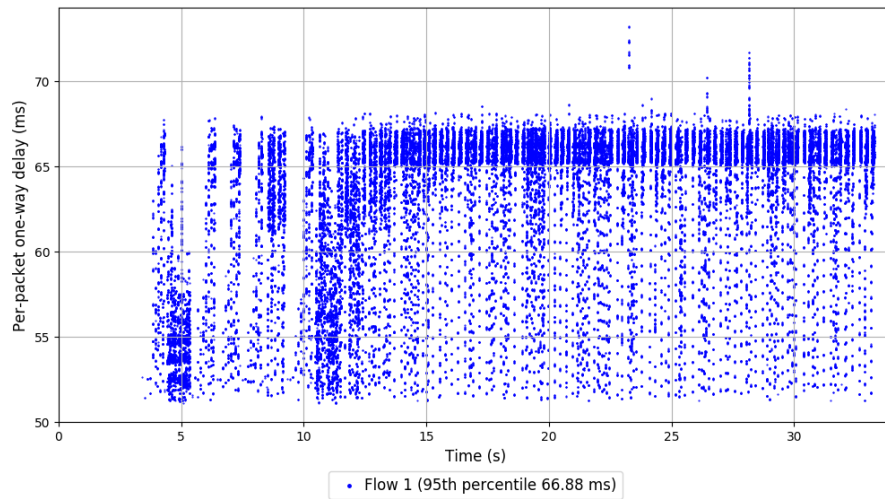
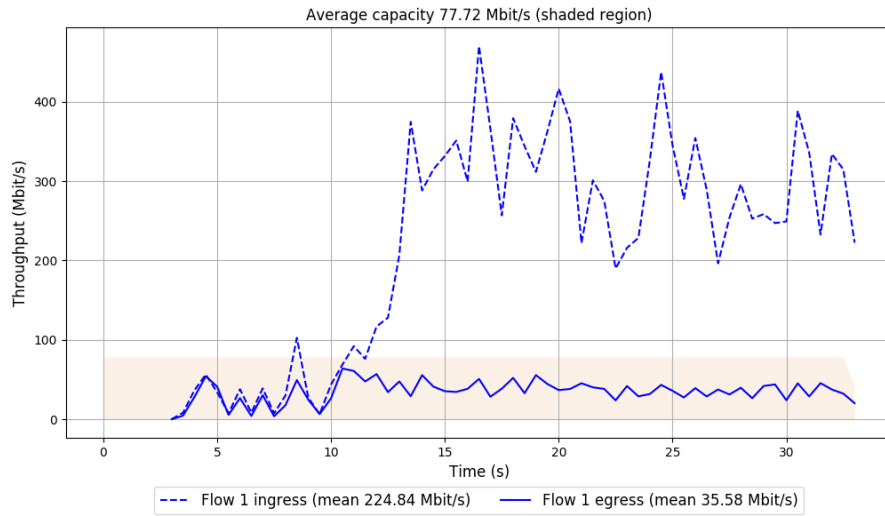
-- Flow 1:

Average throughput: 35.58 Mbit/s

95th percentile per-packet one-way delay: 66.882 ms

Loss rate: 84.17%

# Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-27 06:18:34

End at: 2018-02-27 06:19:04

# Below is generated by plot.py at 2018-02-27 08:17:44

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 36.84 Mbit/s (47.4% utilization)

95th percentile per-packet one-way delay: 66.634 ms

Loss rate: 72.13%

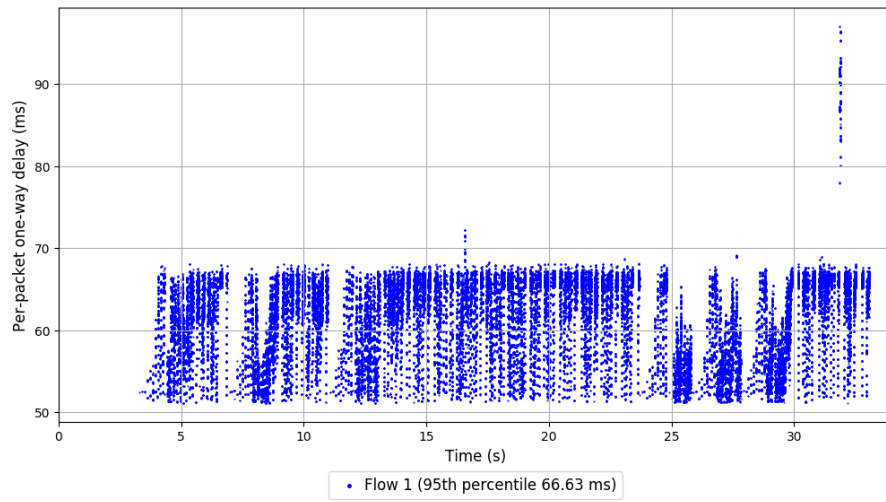
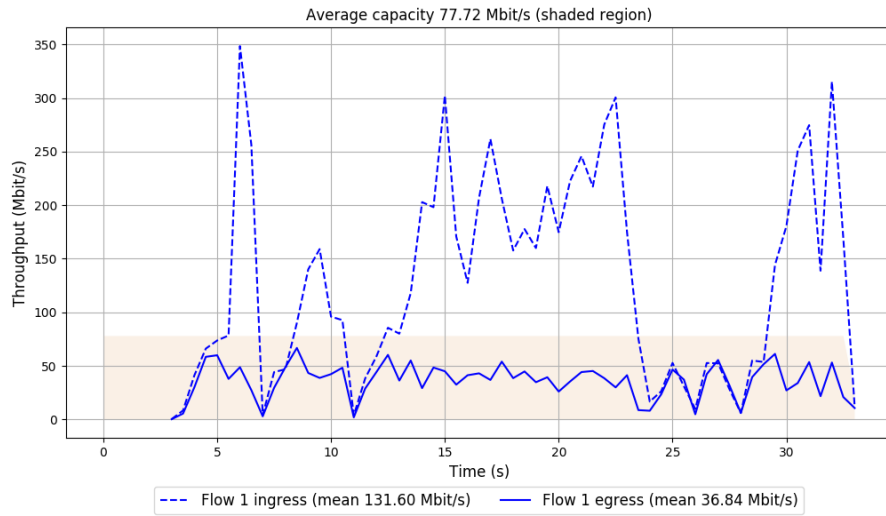
-- Flow 1:

Average throughput: 36.84 Mbit/s

95th percentile per-packet one-way delay: 66.634 ms

Loss rate: 72.13%

## Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-27 06:30:08

End at: 2018-02-27 06:30:38

# Below is generated by plot.py at 2018-02-27 08:18:07

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 38.10 Mbit/s (49.0% utilization)

95th percentile per-packet one-way delay: 66.932 ms

Loss rate: 86.91%

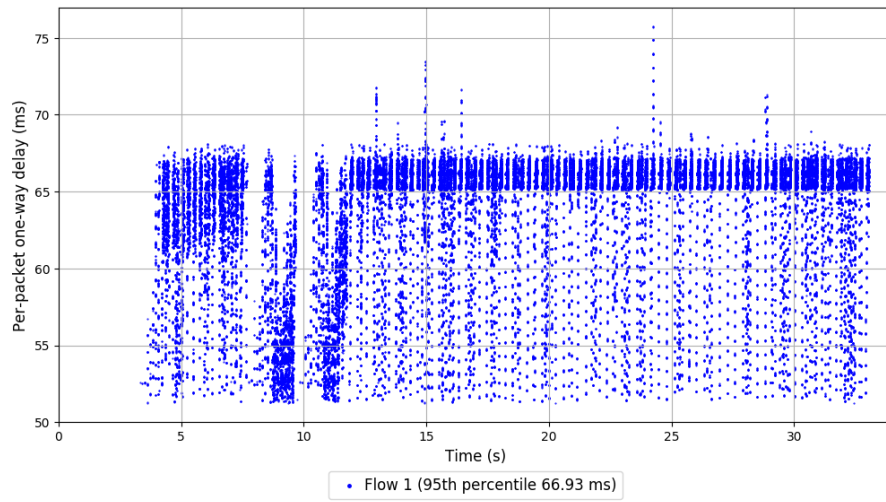
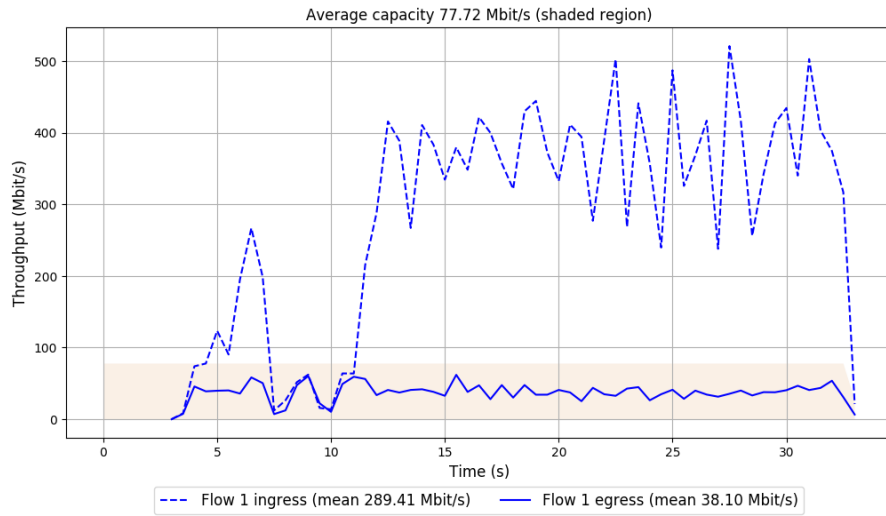
-- Flow 1:

Average throughput: 38.10 Mbit/s

95th percentile per-packet one-way delay: 66.932 ms

Loss rate: 86.91%

### Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

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

End at: 2018-02-27 06:42:11

# Below is generated by plot.py at 2018-02-27 08:18:07

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 40.27 Mbit/s (51.8% utilization)

95th percentile per-packet one-way delay: 66.336 ms

Loss rate: 53.33%

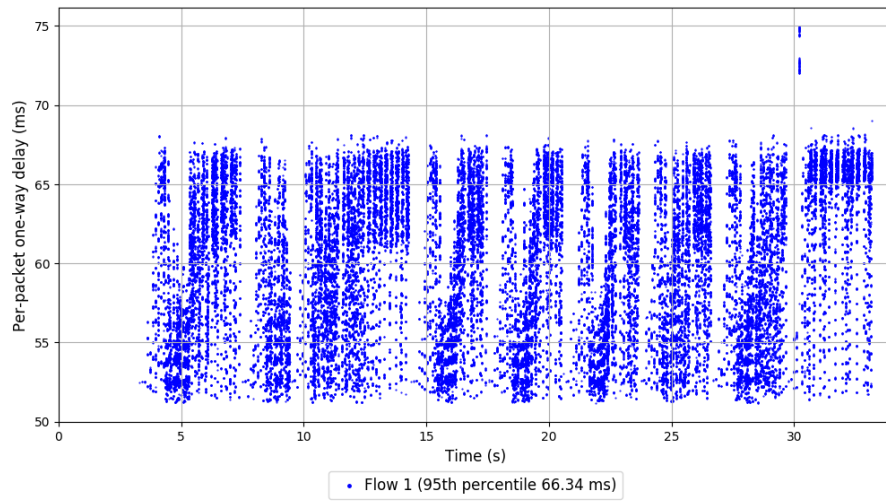
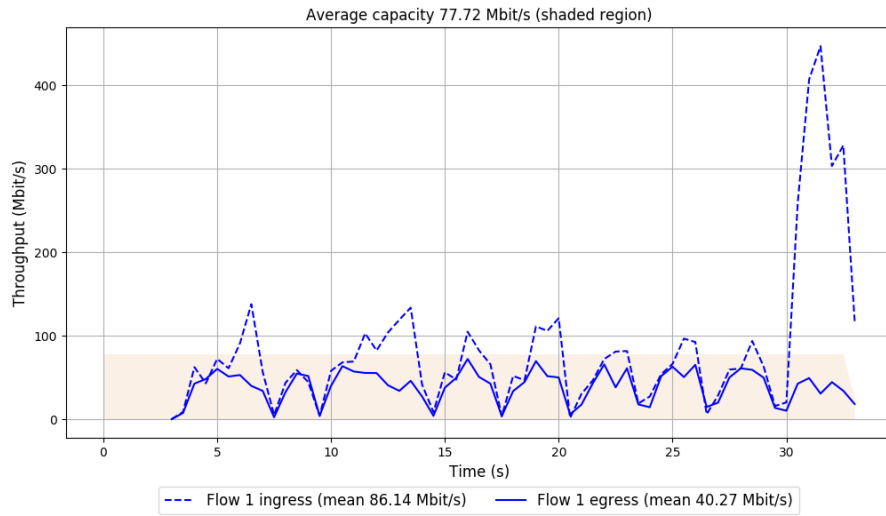
-- Flow 1:

Average throughput: 40.27 Mbit/s

95th percentile per-packet one-way delay: 66.336 ms

Loss rate: 53.33%

### Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-27 06:53:11

End at: 2018-02-27 06:53:41

# Below is generated by plot.py at 2018-02-27 08:18:07

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 35.07 Mbit/s (45.1% utilization)

95th percentile per-packet one-way delay: 66.735 ms

Loss rate: 74.05%

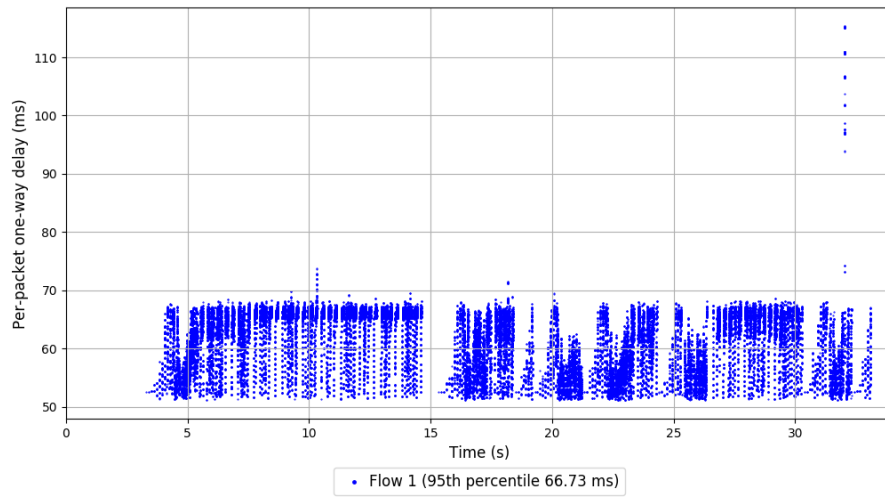
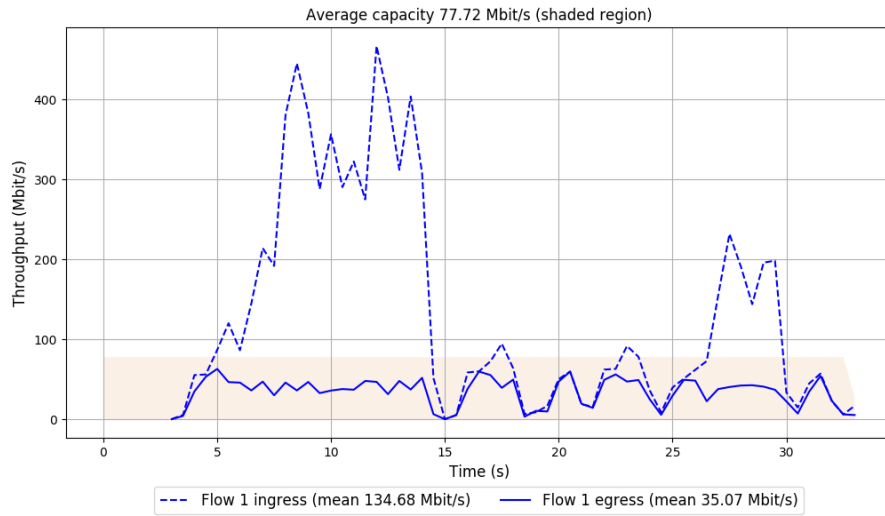
-- Flow 1:

Average throughput: 35.07 Mbit/s

95th percentile per-packet one-way delay: 66.735 ms

Loss rate: 74.05%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-27 07:04:42

End at: 2018-02-27 07:05:12

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

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 38.16 Mbit/s (49.1% utilization)

95th percentile per-packet one-way delay: 66.788 ms

Loss rate: 80.88%

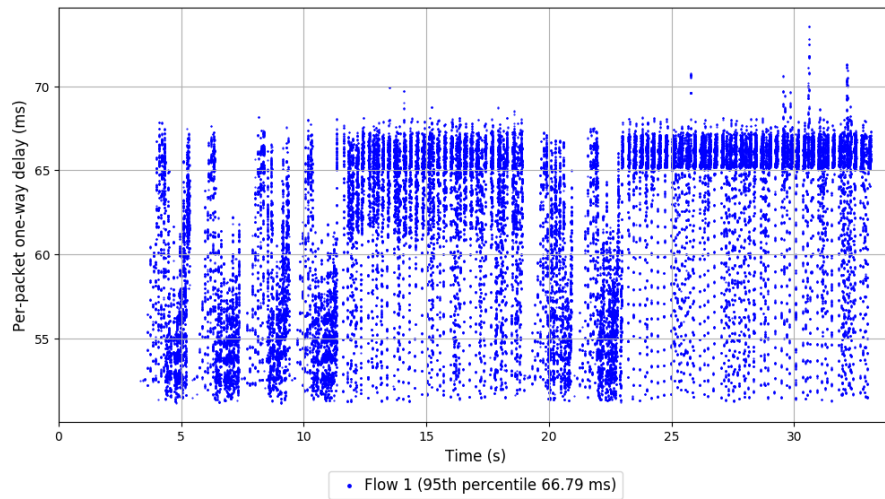
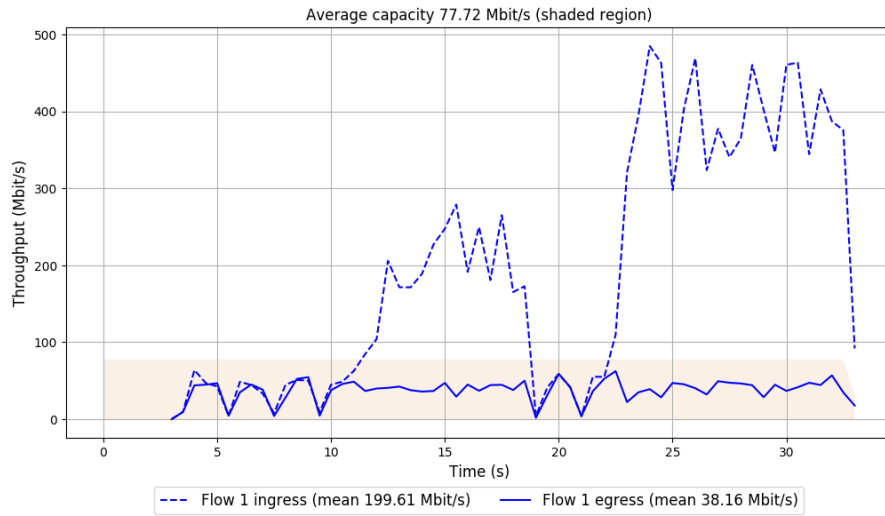
-- Flow 1:

Average throughput: 38.16 Mbit/s

95th percentile per-packet one-way delay: 66.788 ms

Loss rate: 80.88%

### Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

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

End at: 2018-02-27 07:16:30

# Below is generated by plot.py at 2018-02-27 08:19:24

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 36.19 Mbit/s (46.6% utilization)

95th percentile per-packet one-way delay: 67.005 ms

Loss rate: 87.65%

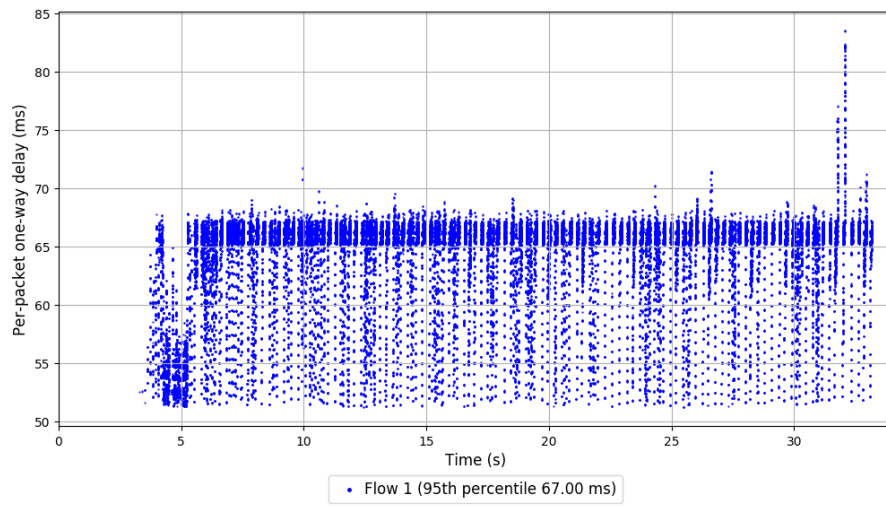
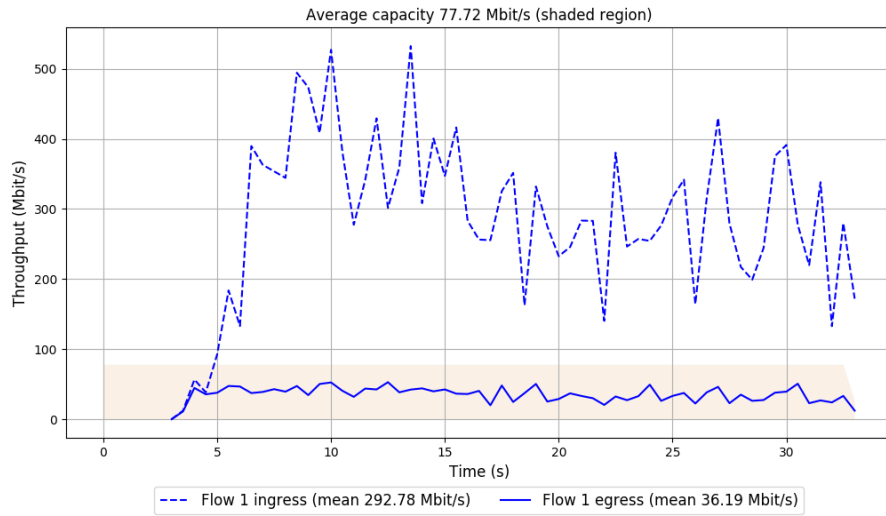
-- Flow 1:

Average throughput: 36.19 Mbit/s

95th percentile per-packet one-way delay: 67.005 ms

Loss rate: 87.65%

### Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

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

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

# Below is generated by plot.py at 2018-02-27 08:19:24

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 36.15 Mbit/s (46.5% utilization)

95th percentile per-packet one-way delay: 66.304 ms

Loss rate: 43.65%

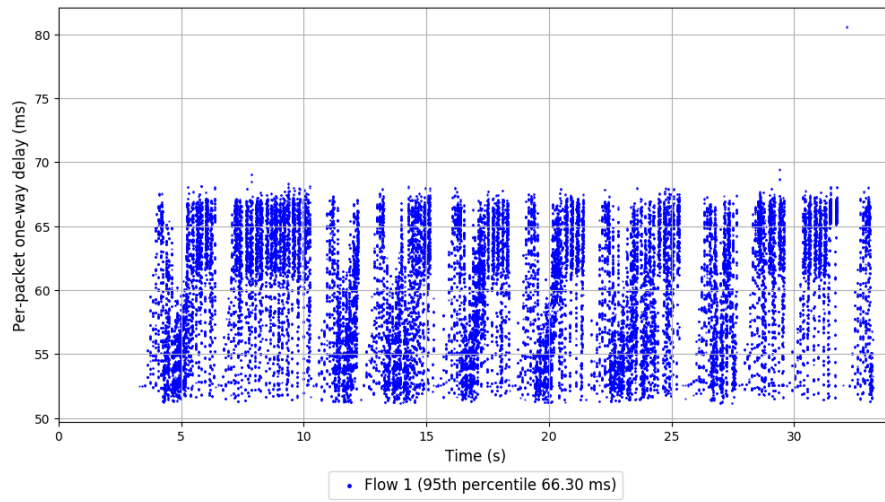
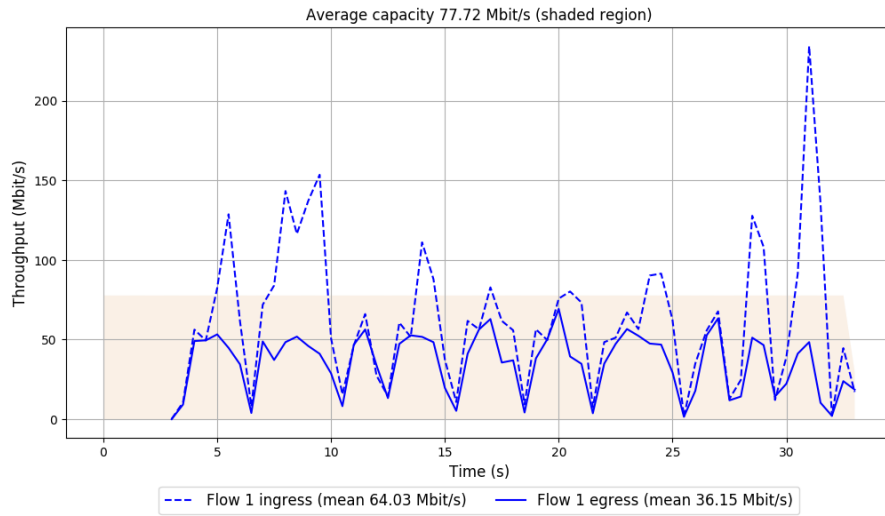
-- Flow 1:

Average throughput: 36.15 Mbit/s

95th percentile per-packet one-way delay: 66.304 ms

Loss rate: 43.65%

### Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-27 07:38:46

End at: 2018-02-27 07:39:16

# Below is generated by plot.py at 2018-02-27 08:19:24

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 36.46 Mbit/s (46.9% utilization)

95th percentile per-packet one-way delay: 66.621 ms

Loss rate: 74.92%

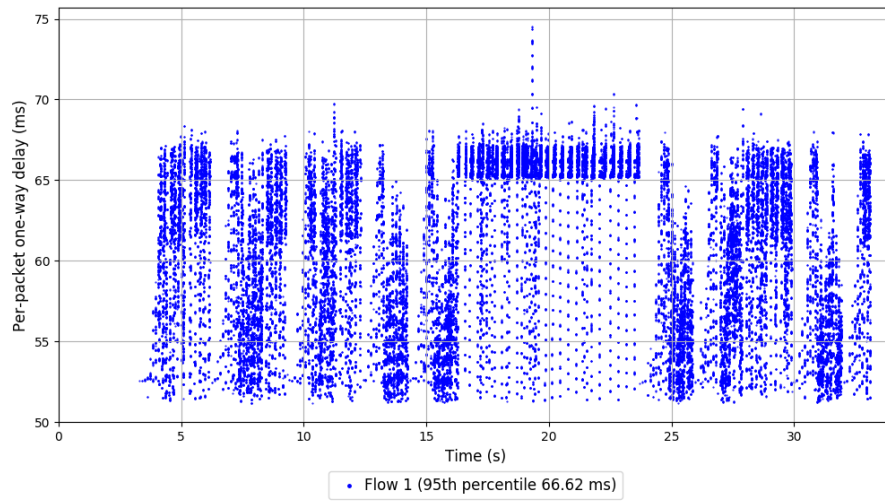
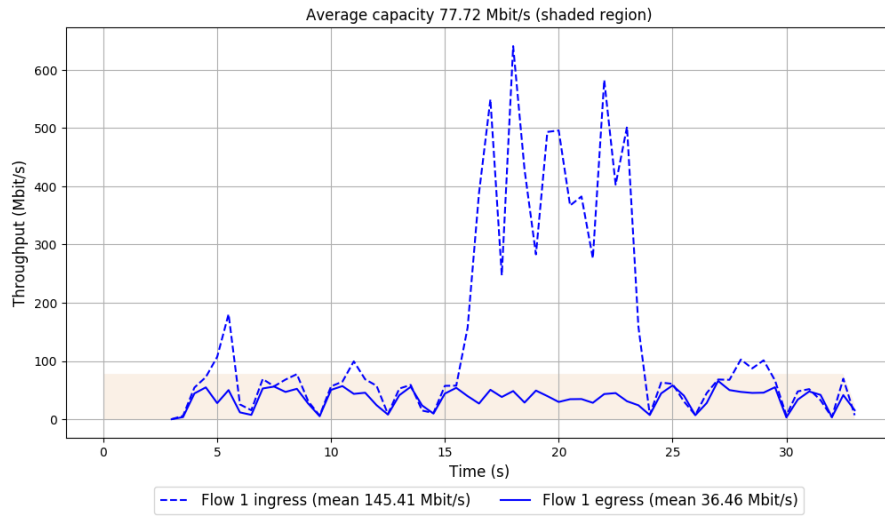
-- Flow 1:

Average throughput: 36.46 Mbit/s

95th percentile per-packet one-way delay: 66.621 ms

Loss rate: 74.92%

### Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-27 07:50:15

End at: 2018-02-27 07:50:45

# Below is generated by plot.py at 2018-02-27 08:19:24

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 35.81 Mbit/s (46.1% utilization)

95th percentile per-packet one-way delay: 66.951 ms

Loss rate: 83.56%

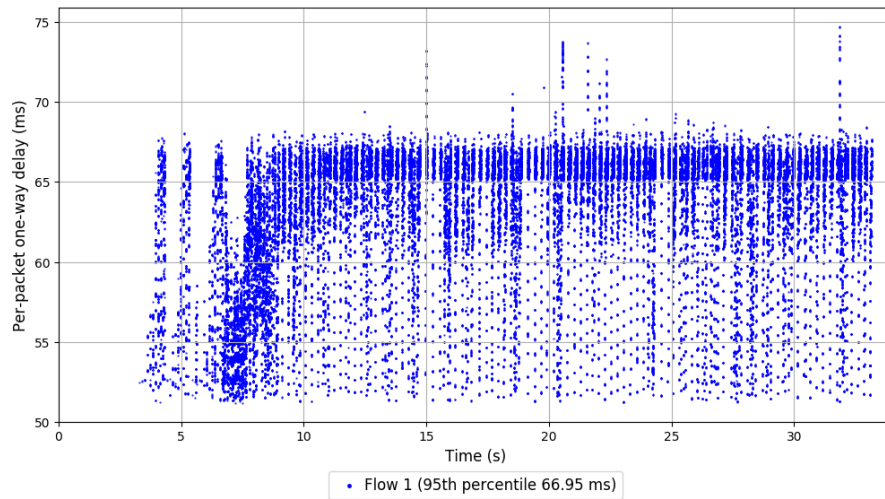
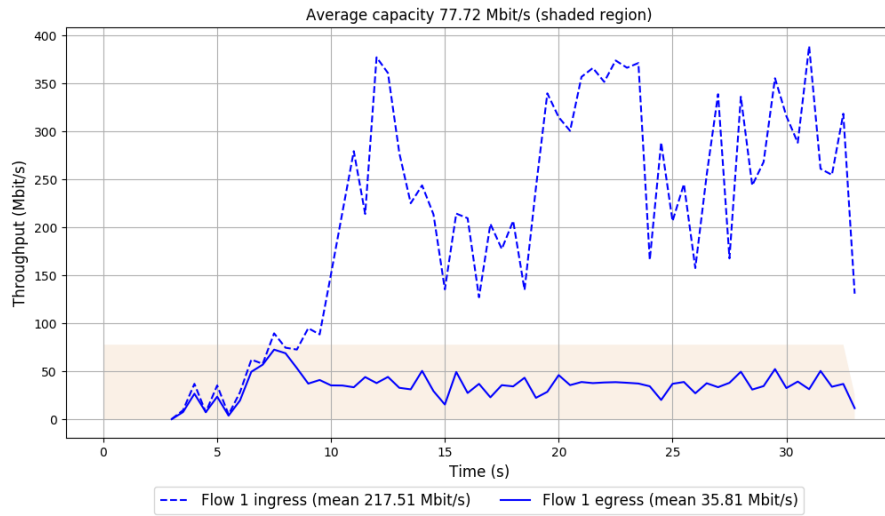
-- Flow 1:

Average throughput: 35.81 Mbit/s

95th percentile per-packet one-way delay: 66.951 ms

Loss rate: 83.56%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-27 06:12:13

End at: 2018-02-27 06:12:43

# Below is generated by plot.py at 2018-02-27 08:23:11

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 67.12 Mbit/s (86.4% utilization)

95th percentile per-packet one-way delay: 60.083 ms

Loss rate: 86.30%

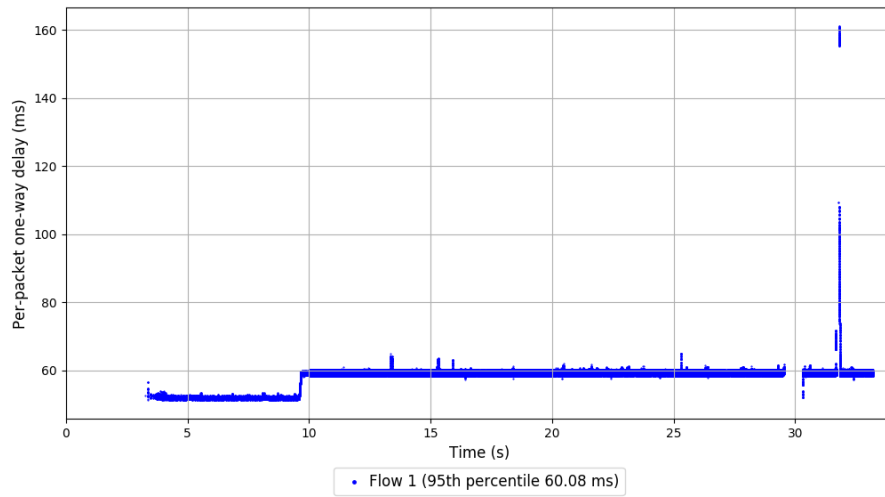
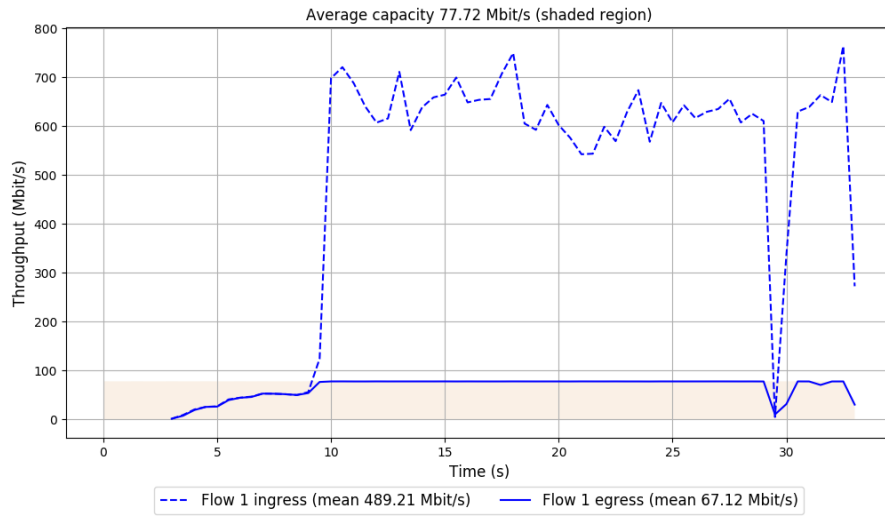
-- Flow 1:

Average throughput: 67.12 Mbit/s

95th percentile per-packet one-way delay: 60.083 ms

Loss rate: 86.30%

# Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-27 06:23:38

End at: 2018-02-27 06:24:08

# Below is generated by plot.py at 2018-02-27 08:24:29

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 70.88 Mbit/s (91.2% utilization)

95th percentile per-packet one-way delay: 60.110 ms

Loss rate: 88.84%

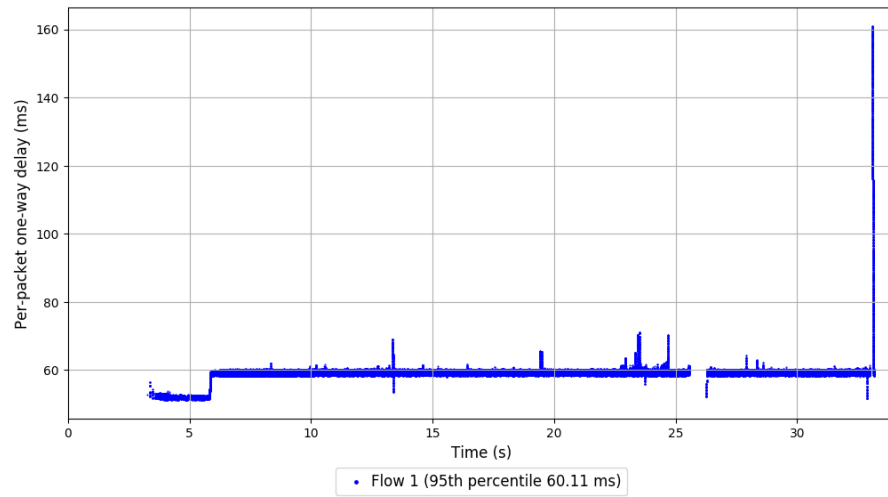
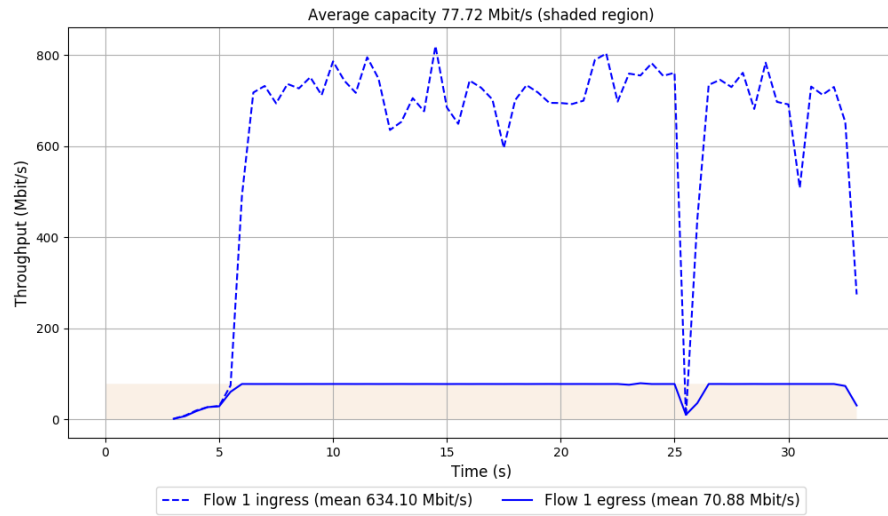
-- Flow 1:

Average throughput: 70.88 Mbit/s

95th percentile per-packet one-way delay: 60.110 ms

Loss rate: 88.84%

## Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-27 06:35:17

End at: 2018-02-27 06:35:47

# Below is generated by plot.py at 2018-02-27 08:24:29

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 67.39 Mbit/s (86.7% utilization)

95th percentile per-packet one-way delay: 60.099 ms

Loss rate: 86.92%

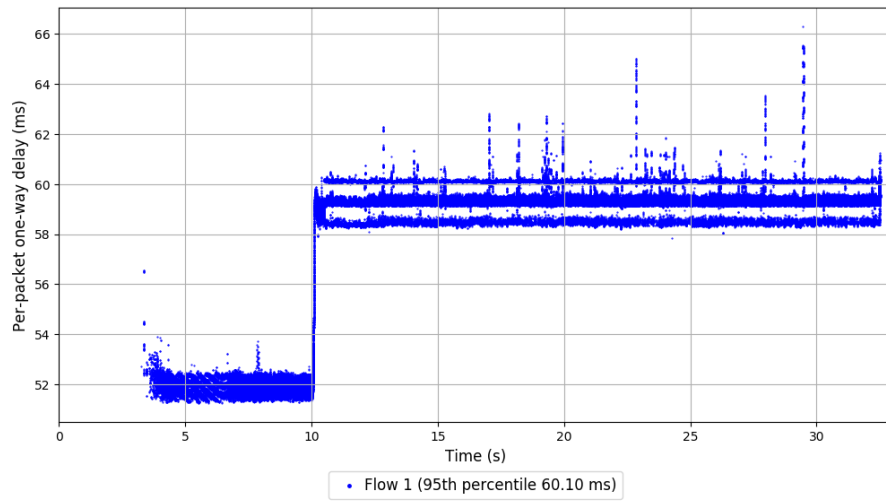
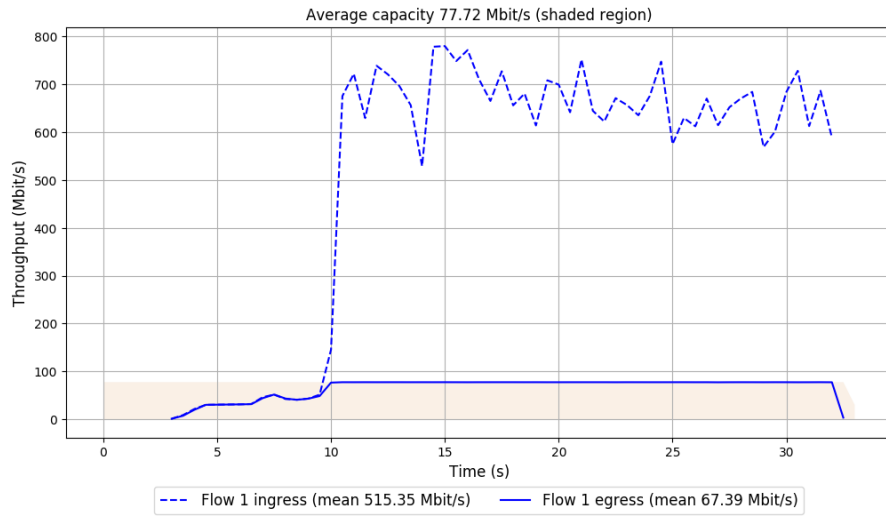
-- Flow 1:

Average throughput: 67.39 Mbit/s

95th percentile per-packet one-way delay: 60.099 ms

Loss rate: 86.92%

### Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

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

End at: 2018-02-27 06:47:16

# Below is generated by plot.py at 2018-02-27 08:24:29

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 66.30 Mbit/s (85.3% utilization)

95th percentile per-packet one-way delay: 60.098 ms

Loss rate: 86.18%

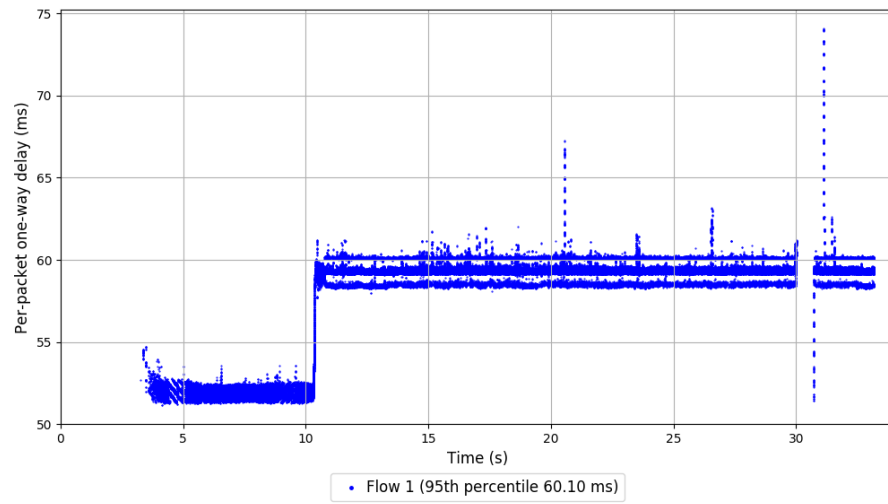
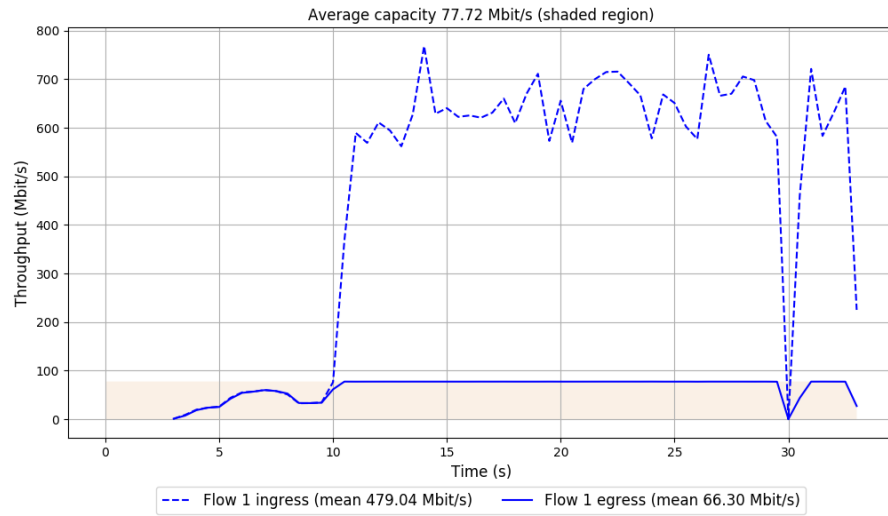
-- Flow 1:

Average throughput: 66.30 Mbit/s

95th percentile per-packet one-way delay: 60.098 ms

Loss rate: 86.18%

### Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-27 06:58:17

End at: 2018-02-27 06:58:47

# Below is generated by plot.py at 2018-02-27 08:24:29

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 65.28 Mbit/s (84.0% utilization)

95th percentile per-packet one-way delay: 60.104 ms

Loss rate: 86.46%

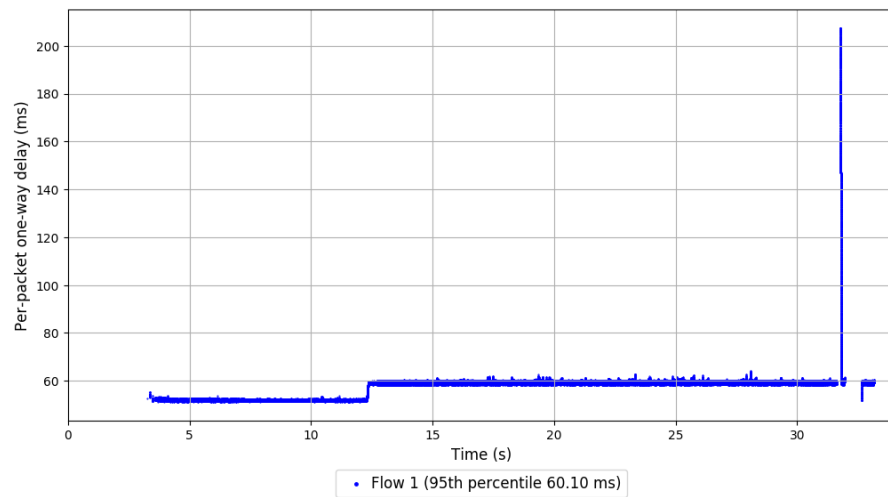
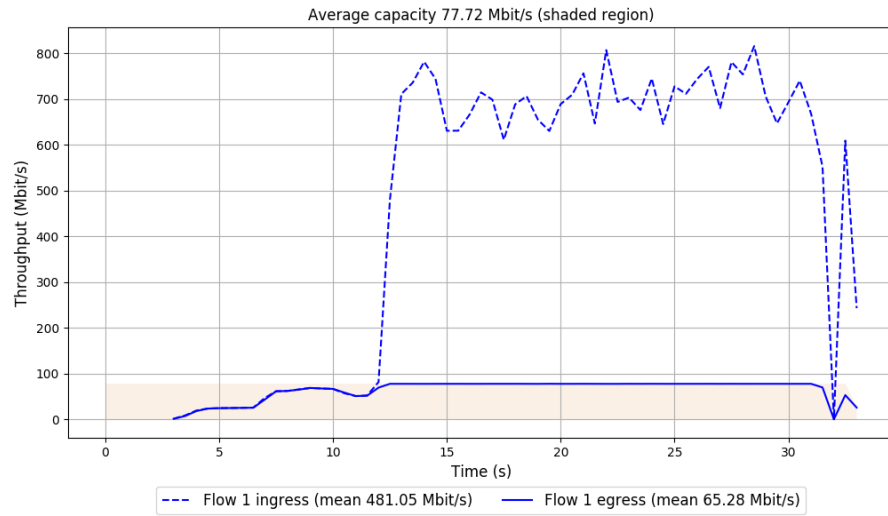
-- Flow 1:

Average throughput: 65.28 Mbit/s

95th percentile per-packet one-way delay: 60.104 ms

Loss rate: 86.46%

## Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-27 07:09:48

End at: 2018-02-27 07:10:18

# Below is generated by plot.py at 2018-02-27 08:24:29

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 47.32 Mbit/s (60.9% utilization)

95th percentile per-packet one-way delay: 59.369 ms

Loss rate: 61.84%

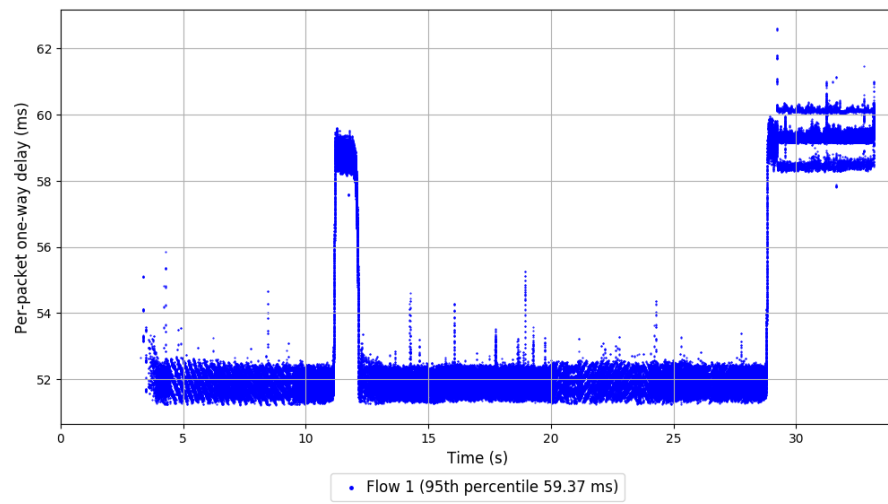
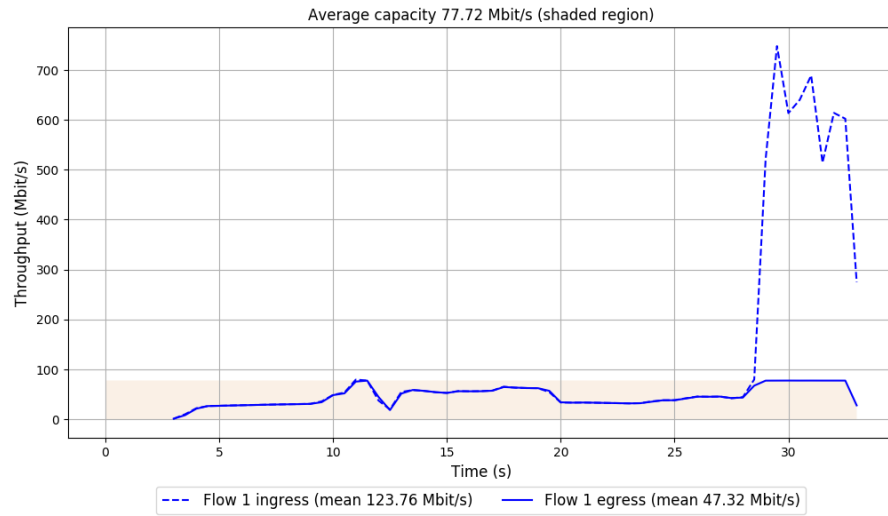
-- Flow 1:

Average throughput: 47.32 Mbit/s

95th percentile per-packet one-way delay: 59.369 ms

Loss rate: 61.84%

## Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-27 07:21:08

End at: 2018-02-27 07:21:38

# Below is generated by plot.py at 2018-02-27 08:24:46

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 63.54 Mbit/s (81.8% utilization)

95th percentile per-packet one-way delay: 60.104 ms

Loss rate: 86.72%

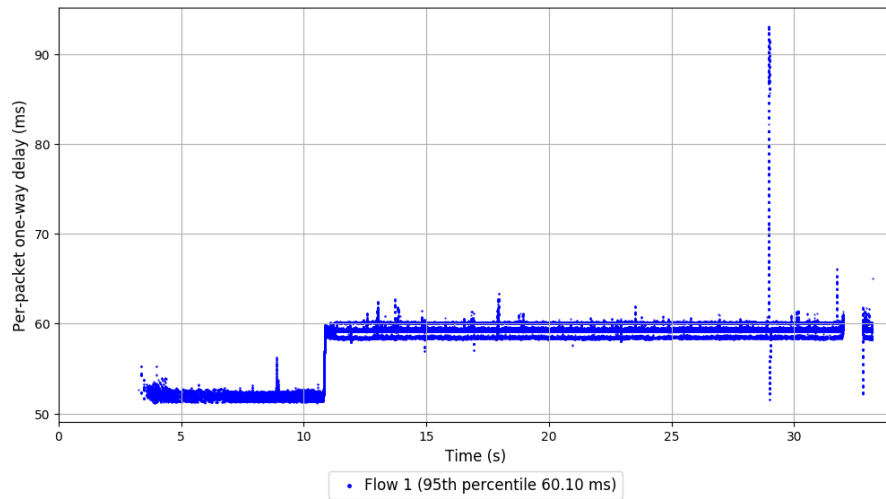
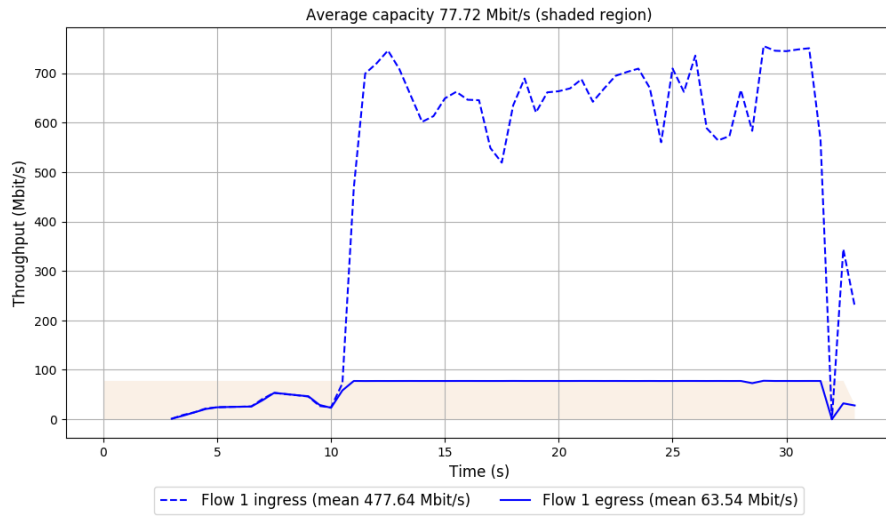
-- Flow 1:

Average throughput: 63.54 Mbit/s

95th percentile per-packet one-way delay: 60.104 ms

Loss rate: 86.72%

## Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-27 07:32:36

End at: 2018-02-27 07:33:06

# Below is generated by plot.py at 2018-02-27 08:24:46

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 37.60 Mbit/s (48.4% utilization)

95th percentile per-packet one-way delay: 52.376 ms

Loss rate: 0.23%

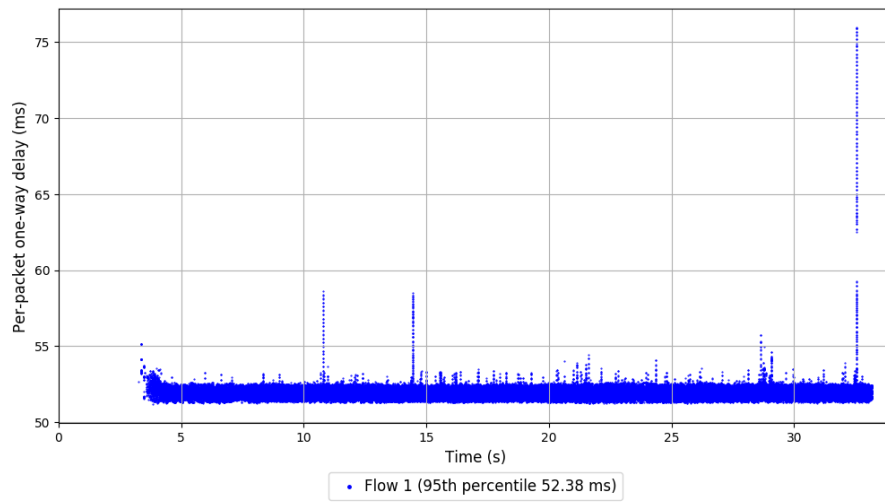
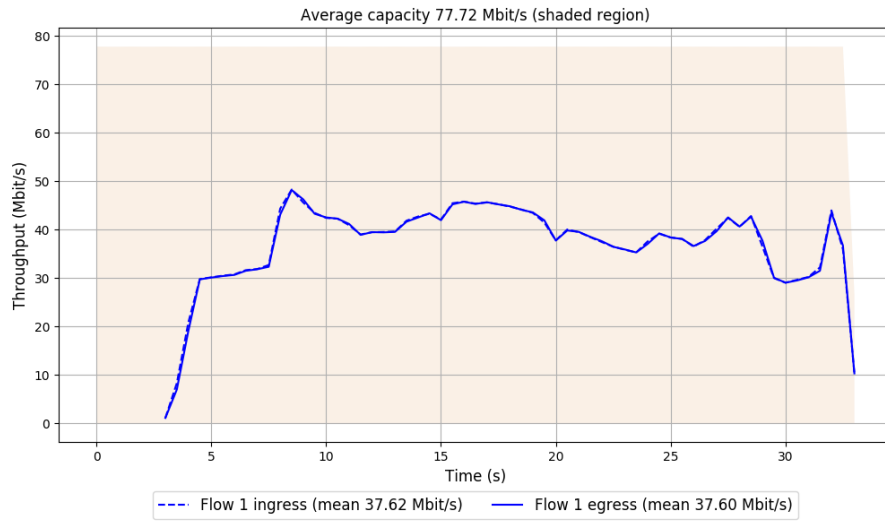
-- Flow 1:

Average throughput: 37.60 Mbit/s

95th percentile per-packet one-way delay: 52.376 ms

Loss rate: 0.23%

### Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-27 07:43:51

End at: 2018-02-27 07:44:21

# Below is generated by plot.py at 2018-02-27 08:26:30

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 65.11 Mbit/s (83.8% utilization)

95th percentile per-packet one-way delay: 60.098 ms

Loss rate: 85.87%

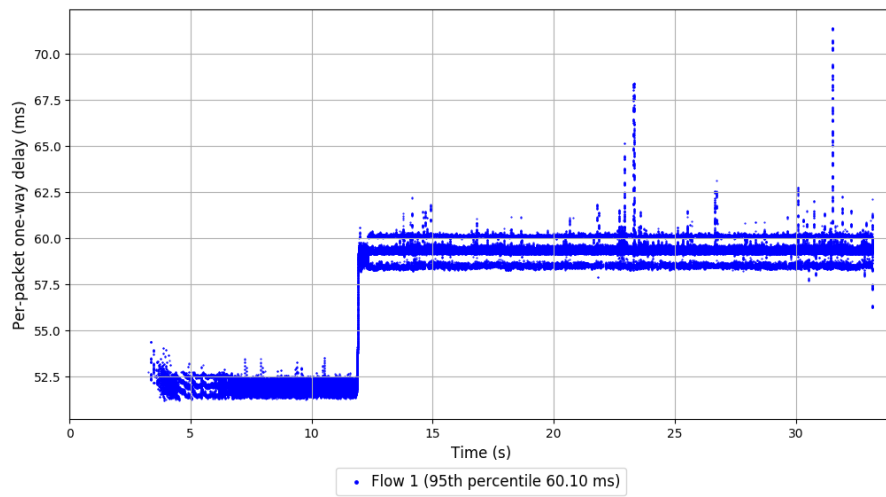
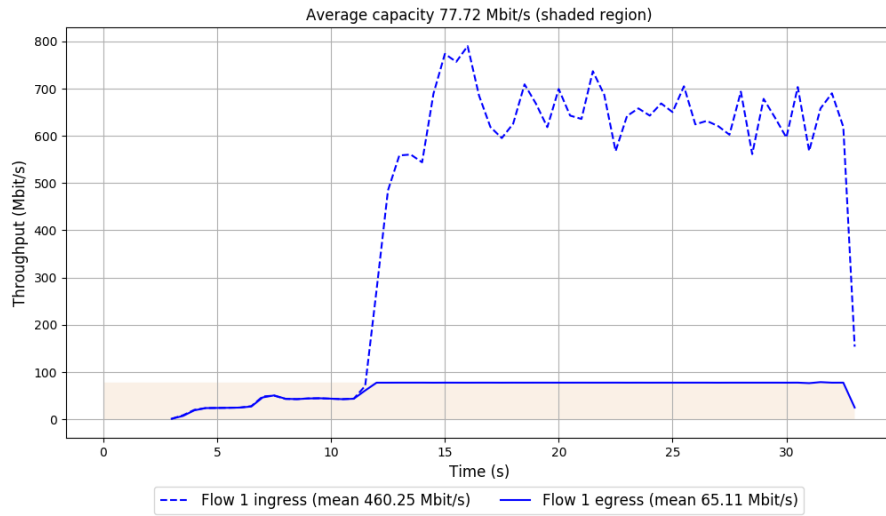
-- Flow 1:

Average throughput: 65.11 Mbit/s

95th percentile per-packet one-way delay: 60.098 ms

Loss rate: 85.87%

### Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-27 07:55:21

End at: 2018-02-27 07:55:51

# Below is generated by plot.py at 2018-02-27 08:26:30

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 65.54 Mbit/s (84.3% utilization)

95th percentile per-packet one-way delay: 60.097 ms

Loss rate: 84.13%

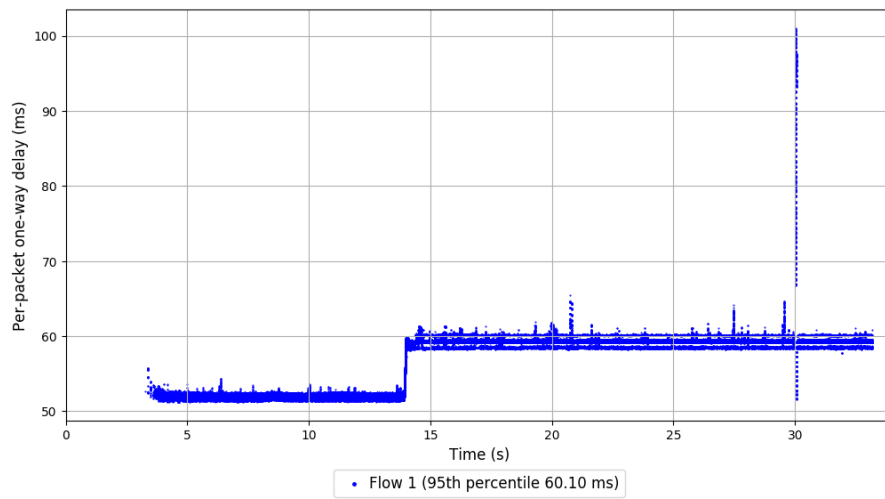
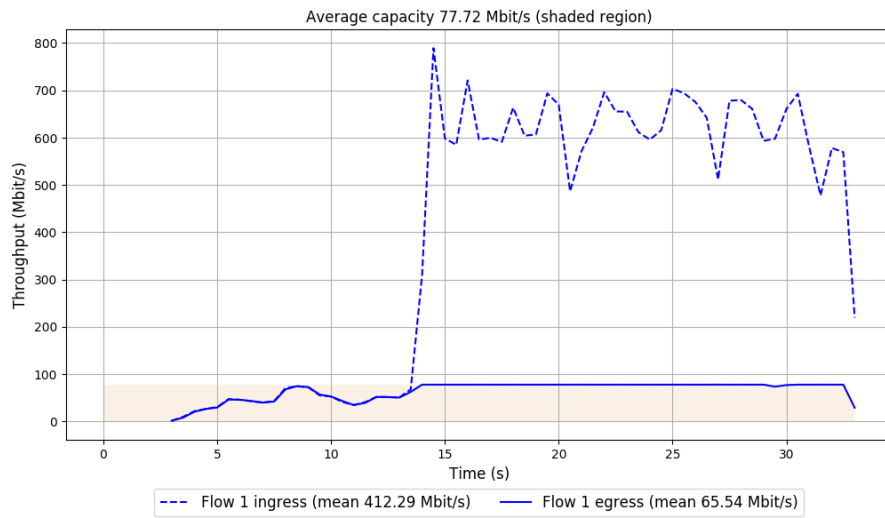
-- Flow 1:

Average throughput: 65.54 Mbit/s

95th percentile per-packet one-way delay: 60.097 ms

Loss rate: 84.13%

# Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-02-27 06:16:03

End at: 2018-02-27 06:16:33

# Below is generated by plot.py at 2018-02-27 08:26:30

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 75.94 Mbit/s (97.7% utilization)

95th percentile per-packet one-way delay: 65.357 ms

Loss rate: 17.81%

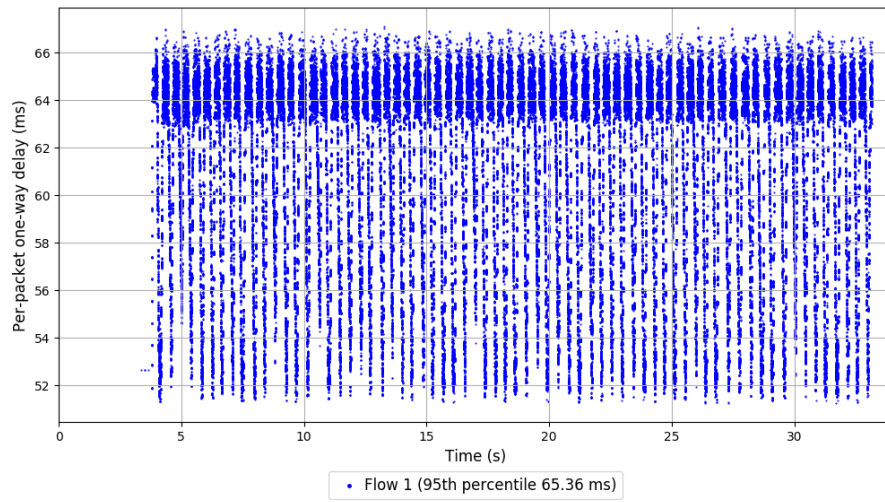
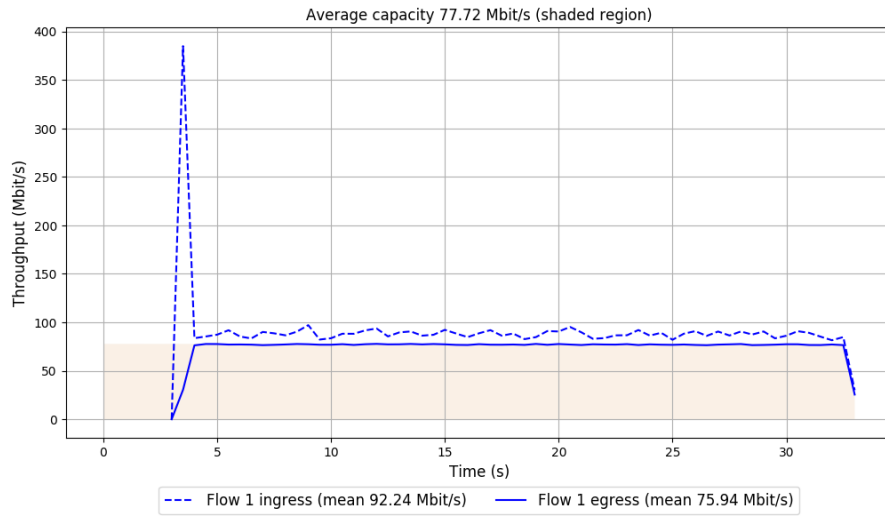
-- Flow 1:

Average throughput: 75.94 Mbit/s

95th percentile per-packet one-way delay: 65.357 ms

Loss rate: 17.81%

# Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

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

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

# Below is generated by plot.py at 2018-02-27 08:26:30

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 76.08 Mbit/s (97.9% utilization)

95th percentile per-packet one-way delay: 65.373 ms

Loss rate: 17.70%

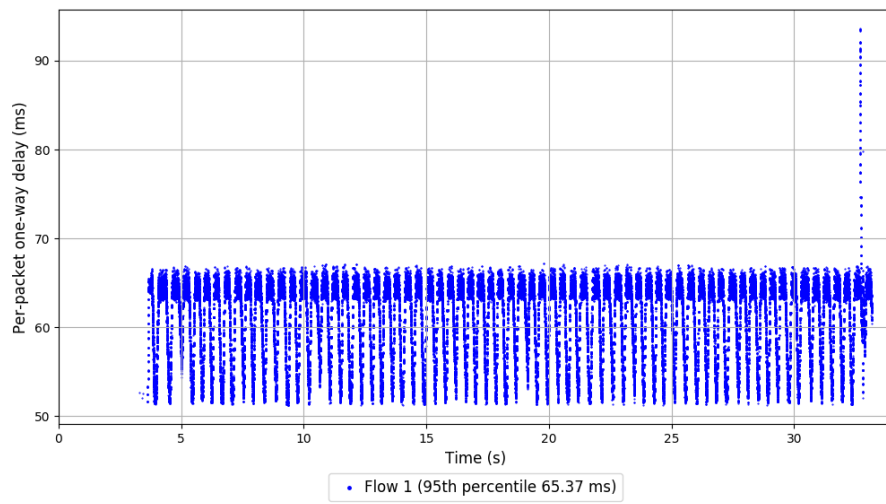
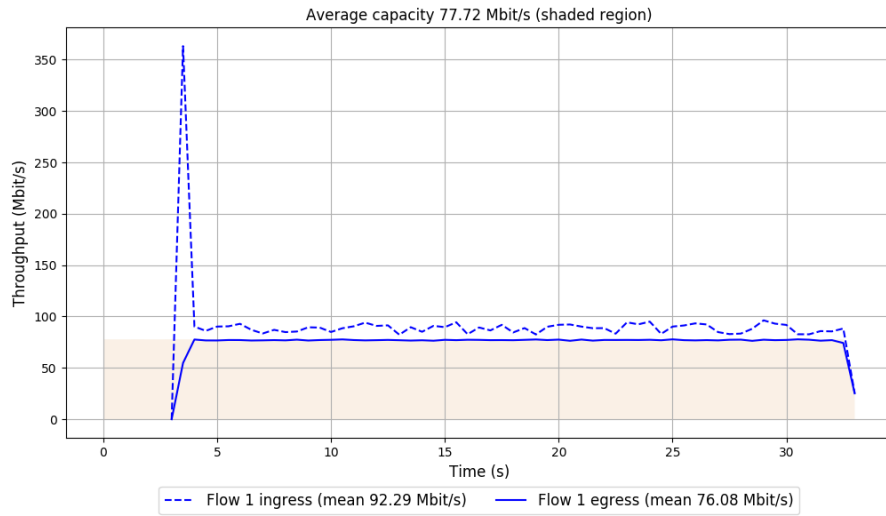
-- Flow 1:

Average throughput: 76.08 Mbit/s

95th percentile per-packet one-way delay: 65.373 ms

Loss rate: 17.70%

## Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-27 06:39:10

End at: 2018-02-27 06:39:40

# Below is generated by plot.py at 2018-02-27 08:26:30

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 75.93 Mbit/s (97.7% utilization)

95th percentile per-packet one-way delay: 65.386 ms

Loss rate: 18.08%

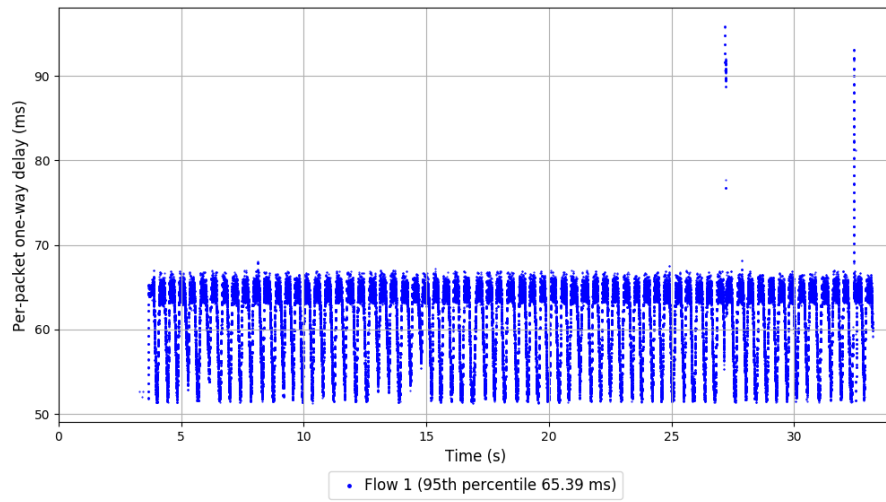
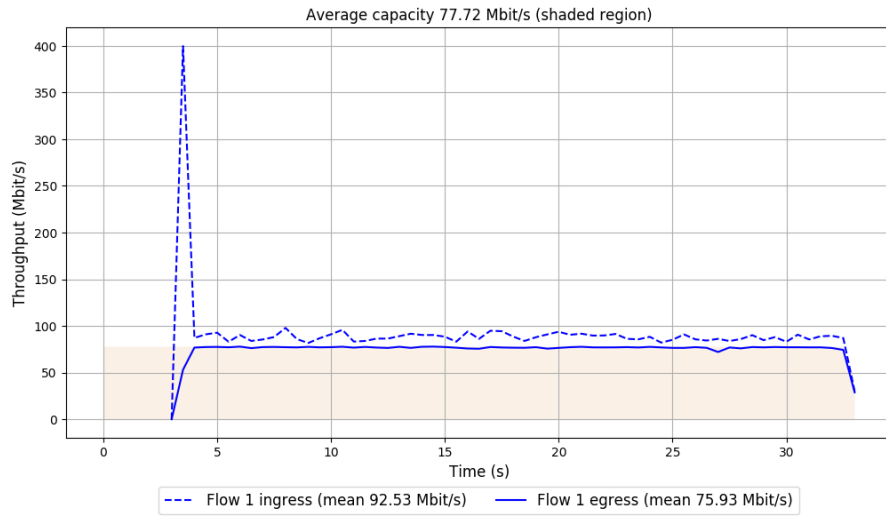
-- Flow 1:

Average throughput: 75.93 Mbit/s

95th percentile per-packet one-way delay: 65.386 ms

Loss rate: 18.08%

### Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-27 06:50:39

End at: 2018-02-27 06:51:09

# Below is generated by plot.py at 2018-02-27 08:26:30

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 76.09 Mbit/s (97.9% utilization)

95th percentile per-packet one-way delay: 65.356 ms

Loss rate: 16.84%

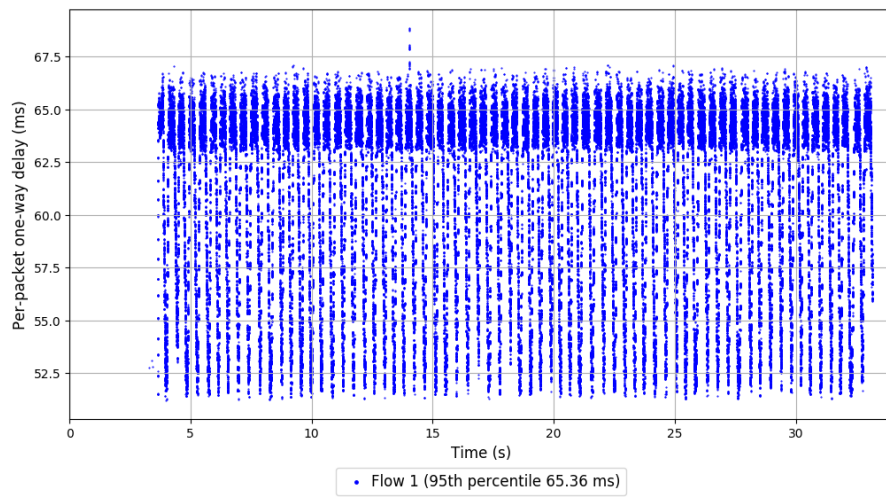
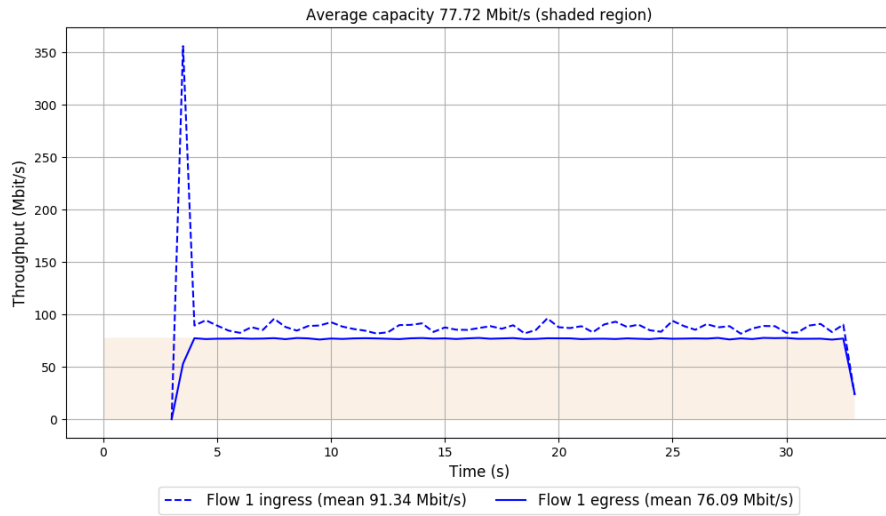
-- Flow 1:

Average throughput: 76.09 Mbit/s

95th percentile per-packet one-way delay: 65.356 ms

Loss rate: 16.84%

### Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

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

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

# Below is generated by plot.py at 2018-02-27 08:26:31

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 76.06 Mbit/s (97.9% utilization)

95th percentile per-packet one-way delay: 65.393 ms

Loss rate: 18.71%

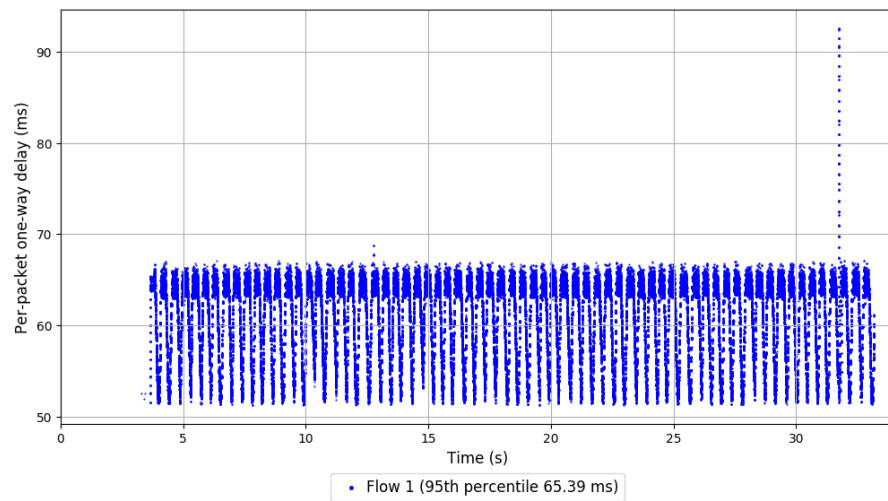
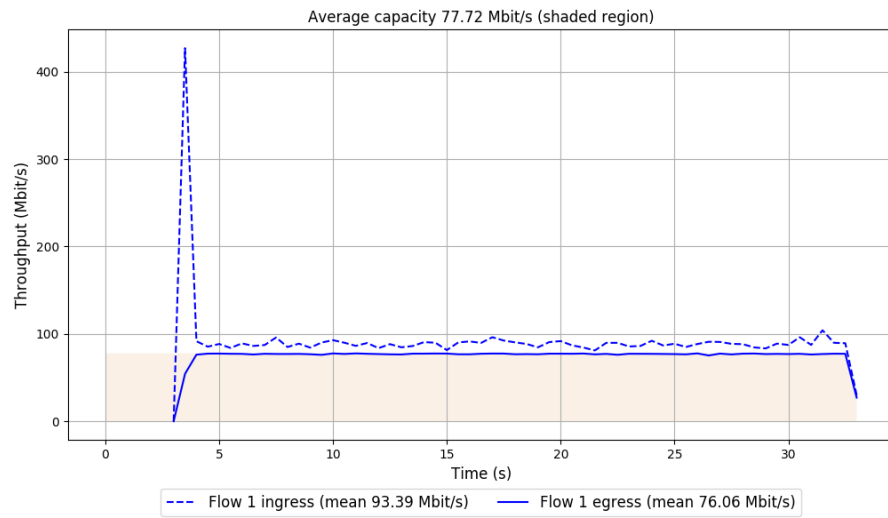
-- Flow 1:

Average throughput: 76.06 Mbit/s

95th percentile per-packet one-way delay: 65.393 ms

Loss rate: 18.71%

## Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-27 07:13:29

End at: 2018-02-27 07:13:59

# Below is generated by plot.py at 2018-02-27 08:26:49

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 76.07 Mbit/s (97.9% utilization)

95th percentile per-packet one-way delay: 65.367 ms

Loss rate: 17.68%

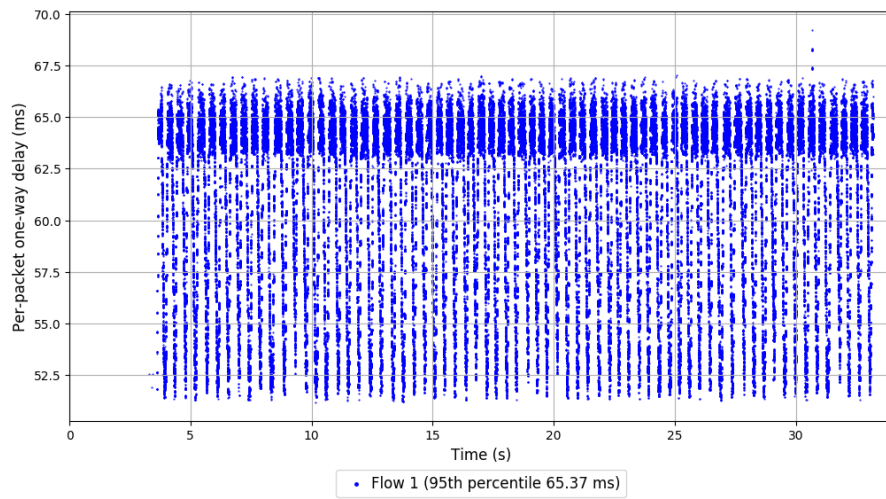
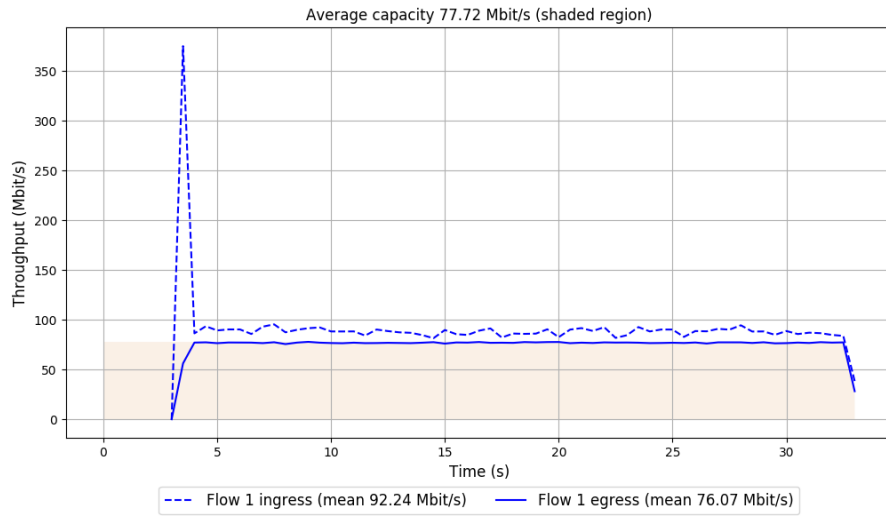
-- Flow 1:

Average throughput: 76.07 Mbit/s

95th percentile per-packet one-way delay: 65.367 ms

Loss rate: 17.68%

### Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-27 07:25:00

End at: 2018-02-27 07:25:30

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

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 76.09 Mbit/s (97.9% utilization)

95th percentile per-packet one-way delay: 65.383 ms

Loss rate: 18.30%

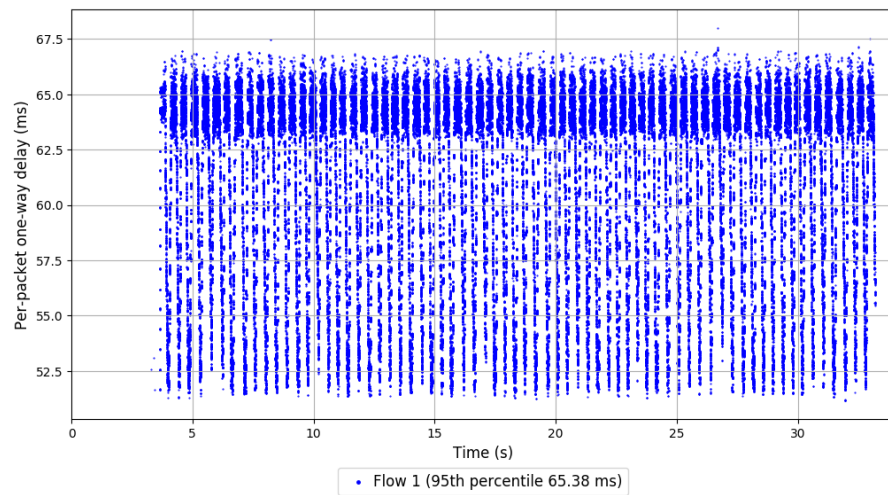
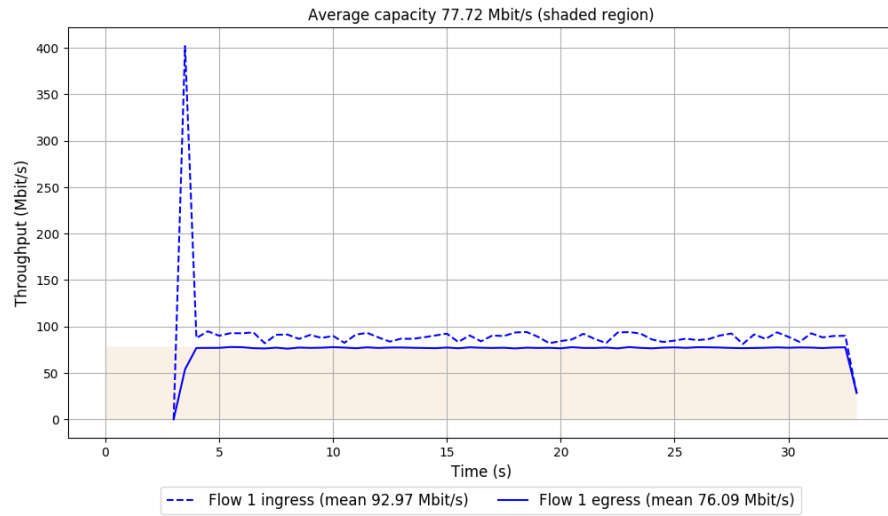
-- Flow 1:

Average throughput: 76.09 Mbit/s

95th percentile per-packet one-way delay: 65.383 ms

Loss rate: 18.30%

## Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-27 07:36:14

End at: 2018-02-27 07:36:44

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

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 75.98 Mbit/s (97.8% utilization)

95th percentile per-packet one-way delay: 65.383 ms

Loss rate: 17.28%

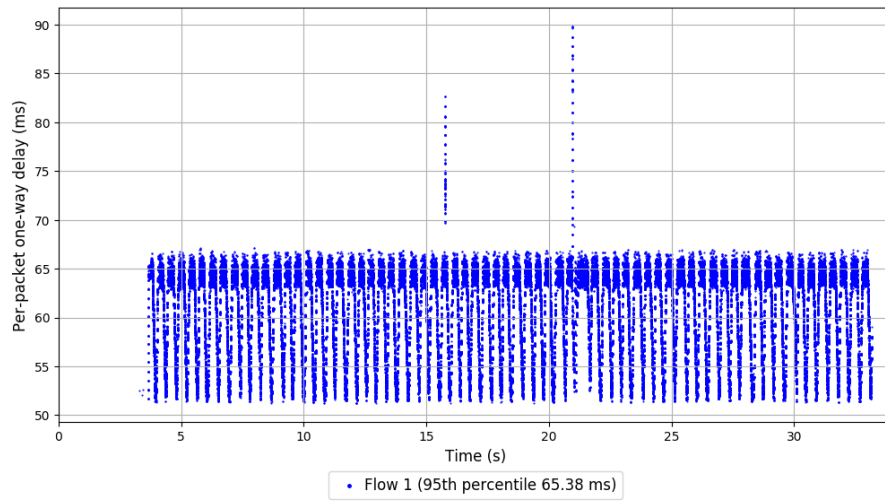
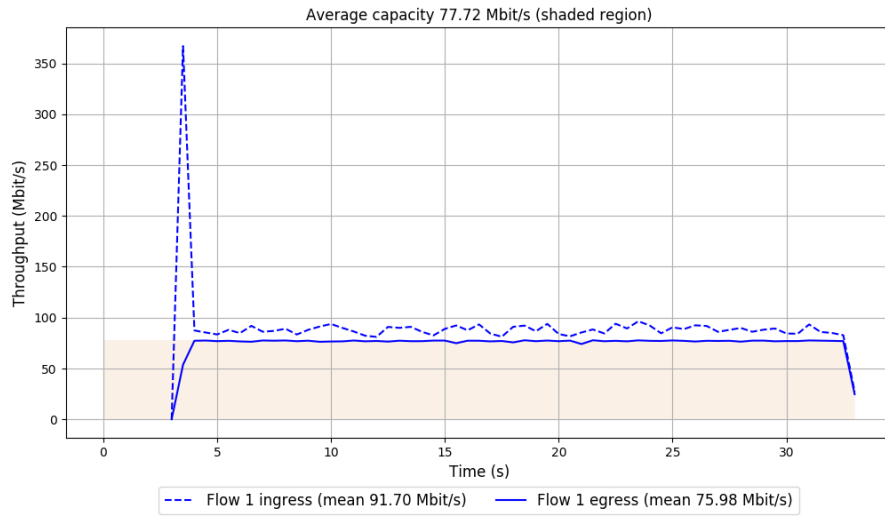
-- Flow 1:

Average throughput: 75.98 Mbit/s

95th percentile per-packet one-way delay: 65.383 ms

Loss rate: 17.28%

### Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-27 07:47:43

End at: 2018-02-27 07:48:13

# Below is generated by plot.py at 2018-02-27 08:27:38

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 76.03 Mbit/s (97.8% utilization)

95th percentile per-packet one-way delay: 65.387 ms

Loss rate: 17.84%

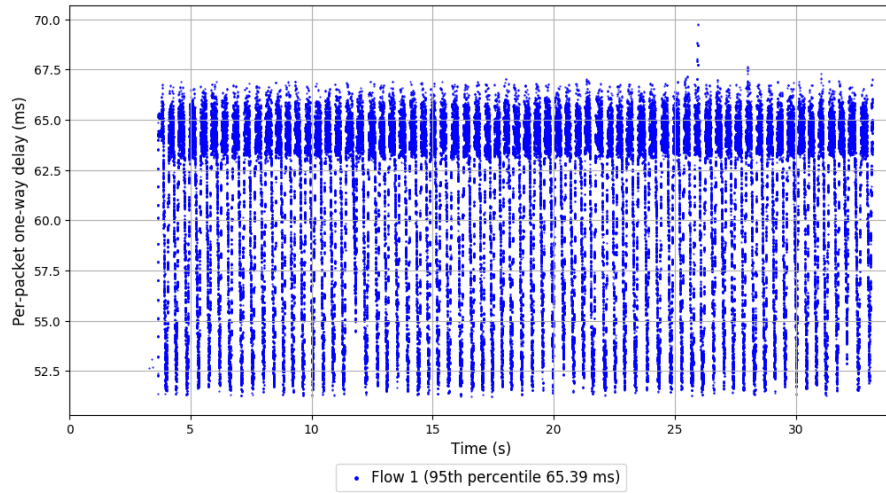
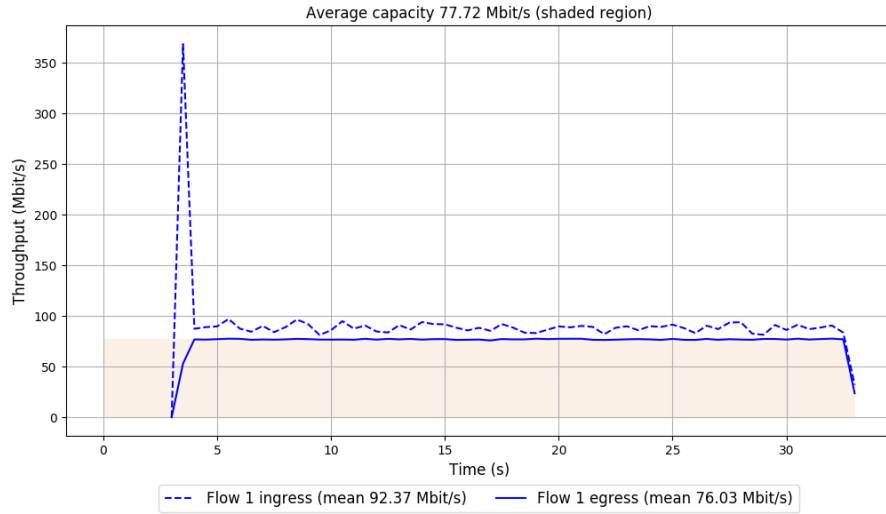
-- Flow 1:

Average throughput: 76.03 Mbit/s

95th percentile per-packet one-way delay: 65.387 ms

Loss rate: 17.84%

### Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-27 07:59:10

End at: 2018-02-27 07:59:41

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

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 76.18 Mbit/s (98.0% utilization)

95th percentile per-packet one-way delay: 65.389 ms

Loss rate: 16.61%

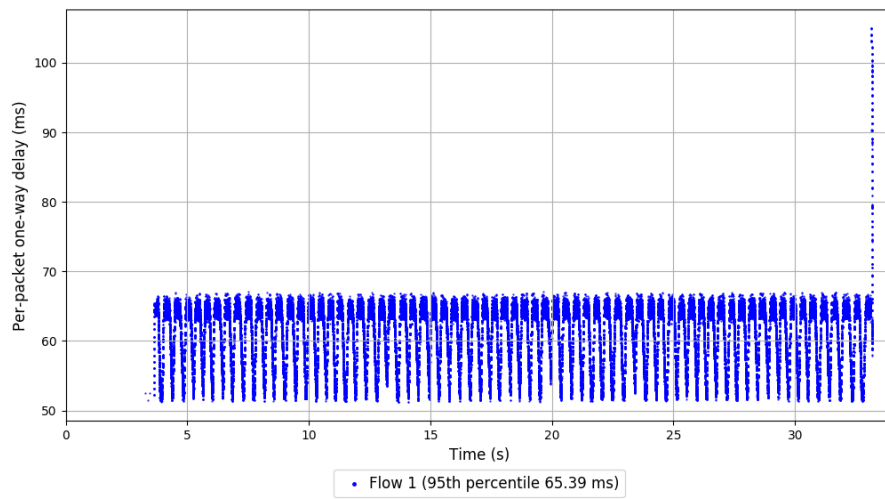
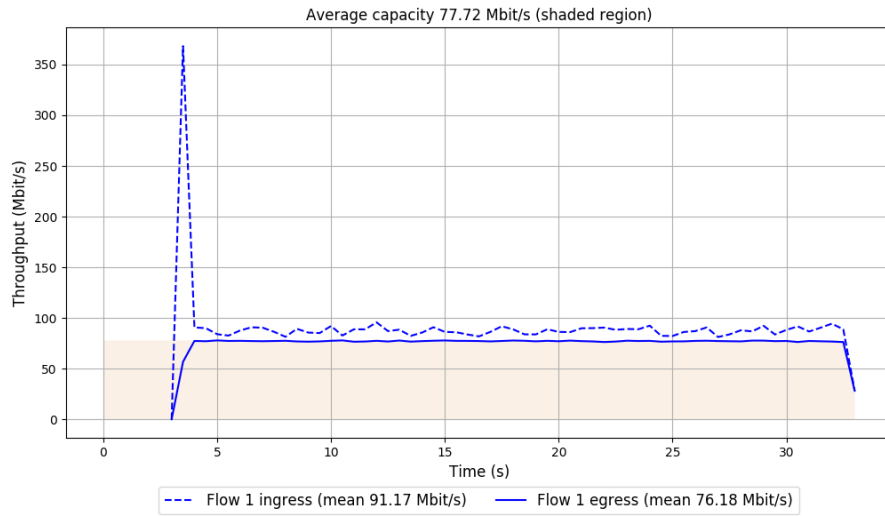
-- Flow 1:

Average throughput: 76.18 Mbit/s

95th percentile per-packet one-way delay: 65.389 ms

Loss rate: 16.61%

# Run 10: Report of FillP — Data Link



Run 1: Statistics of Indigo-1-32

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

End at: 2018-02-27 06:13:36

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

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 44.00 Mbit/s (56.6% utilization)

95th percentile per-packet one-way delay: 57.238 ms

Loss rate: 1.02%

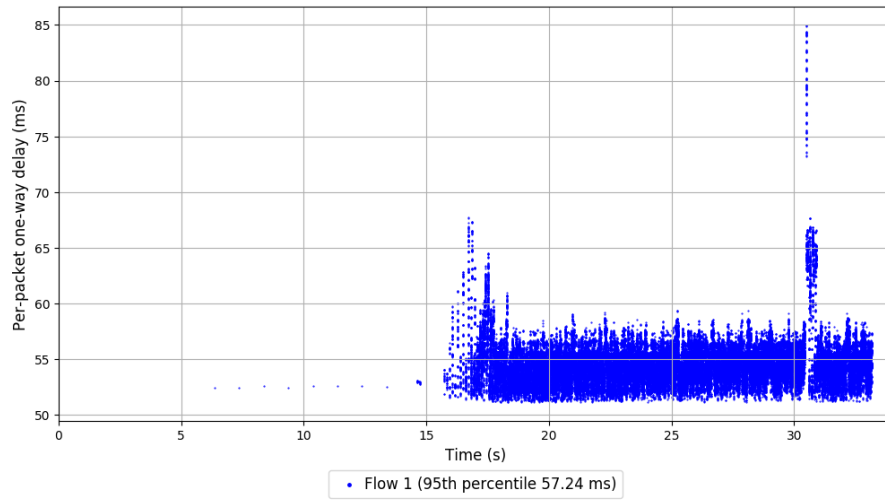
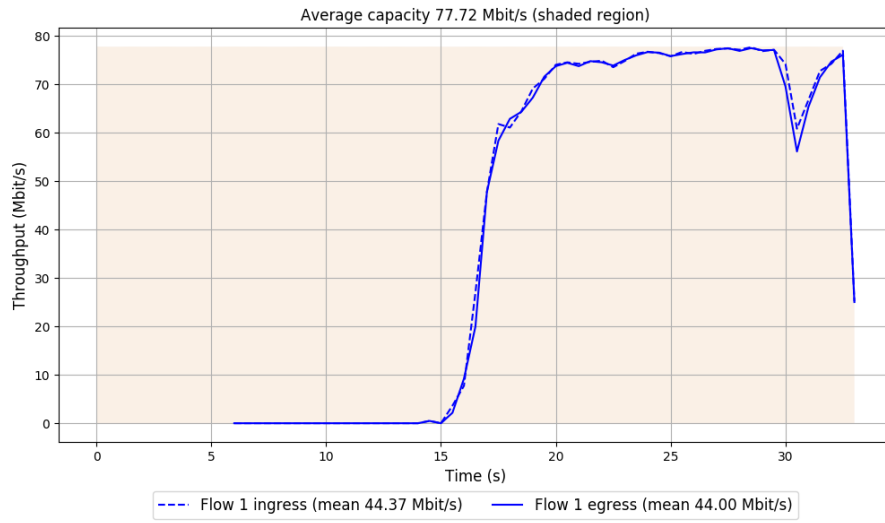
-- Flow 1:

Average throughput: 44.00 Mbit/s

95th percentile per-packet one-way delay: 57.238 ms

Loss rate: 1.02%

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-02-27 06:24:37

End at: 2018-02-27 06:25:07

# Below is generated by plot.py at 2018-02-27 08:28:16

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 74.22 Mbit/s (95.5% utilization)

95th percentile per-packet one-way delay: 60.269 ms

Loss rate: 2.22%

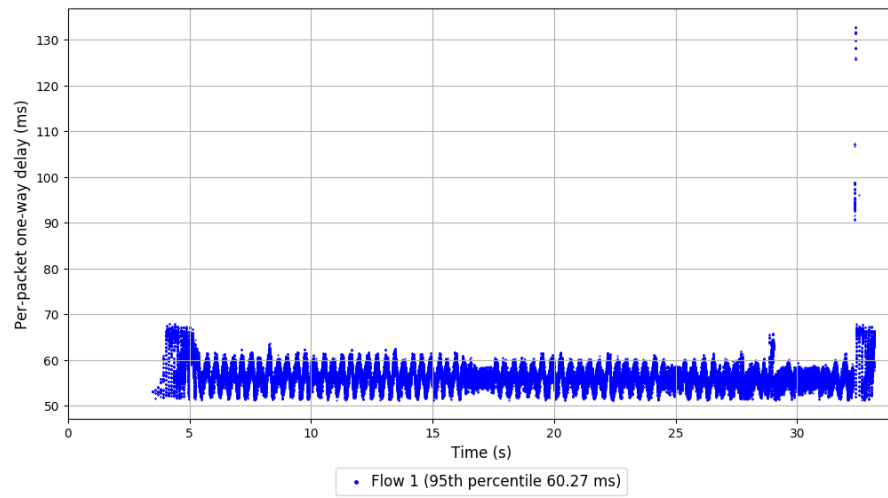
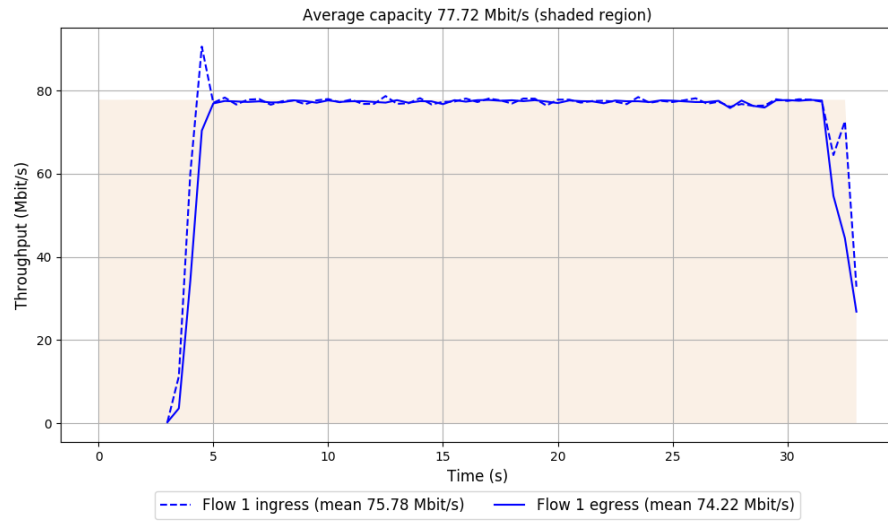
-- Flow 1:

Average throughput: 74.22 Mbit/s

95th percentile per-packet one-way delay: 60.269 ms

Loss rate: 2.22%

## Run 2: Report of Indigo-1-32 — Data Link



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-27 06:36:10

End at: 2018-02-27 06:36:40

# Below is generated by plot.py at 2018-02-27 08:28:16

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 74.28 Mbit/s (95.6% utilization)

95th percentile per-packet one-way delay: 58.288 ms

Loss rate: 1.62%

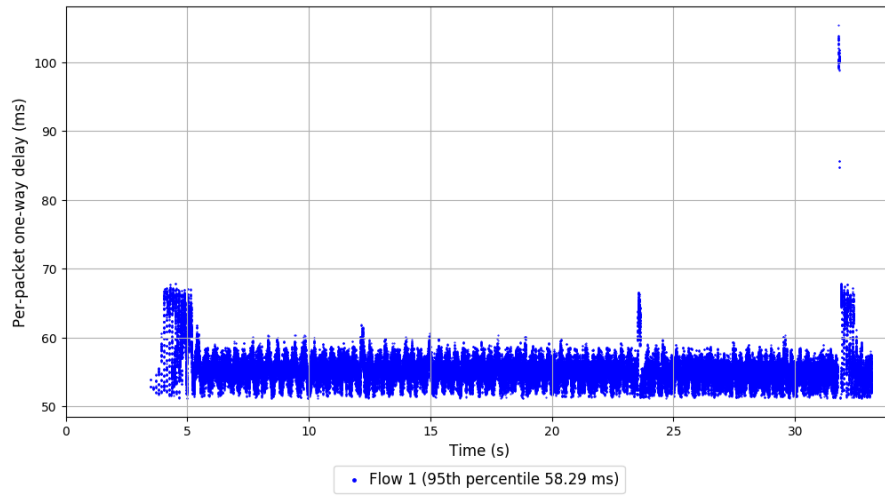
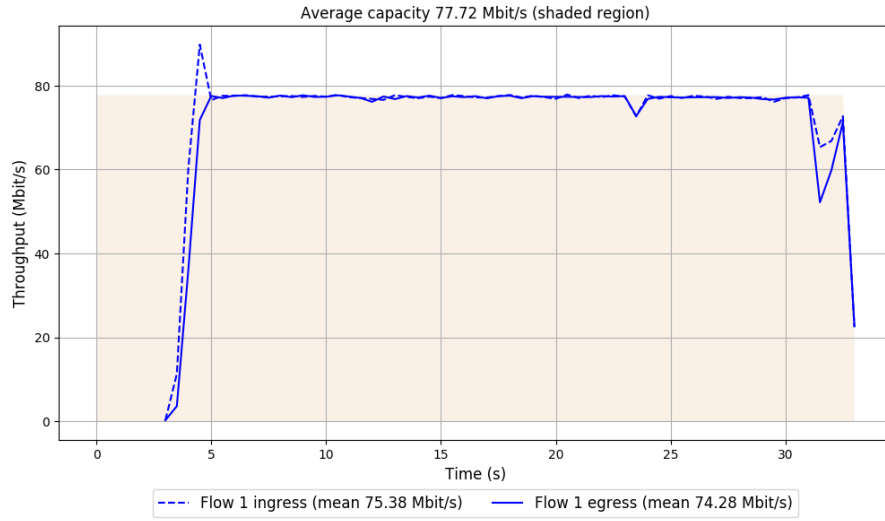
-- Flow 1:

Average throughput: 74.28 Mbit/s

95th percentile per-packet one-way delay: 58.288 ms

Loss rate: 1.62%

### Run 3: Report of Indigo-1-32 — Data Link



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-27 06:47:39

End at: 2018-02-27 06:48:09

# Below is generated by plot.py at 2018-02-27 08:28:34

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 74.36 Mbit/s (95.7% utilization)

95th percentile per-packet one-way delay: 57.167 ms

Loss rate: 0.88%

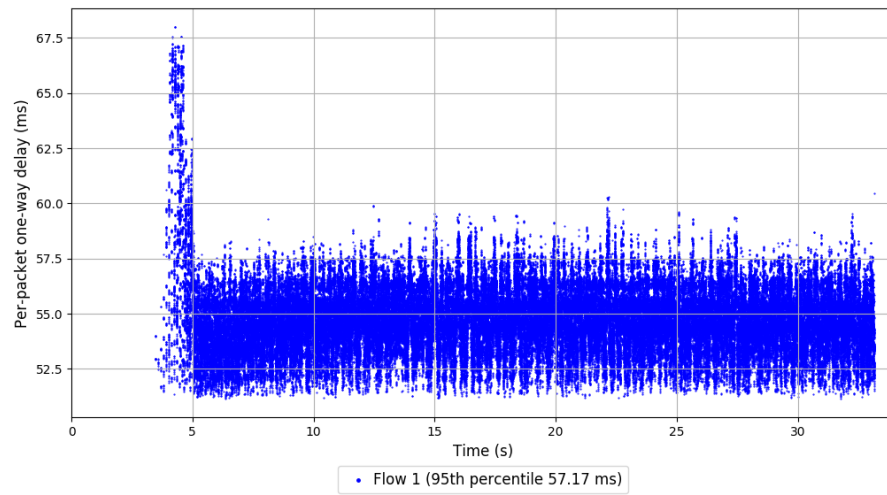
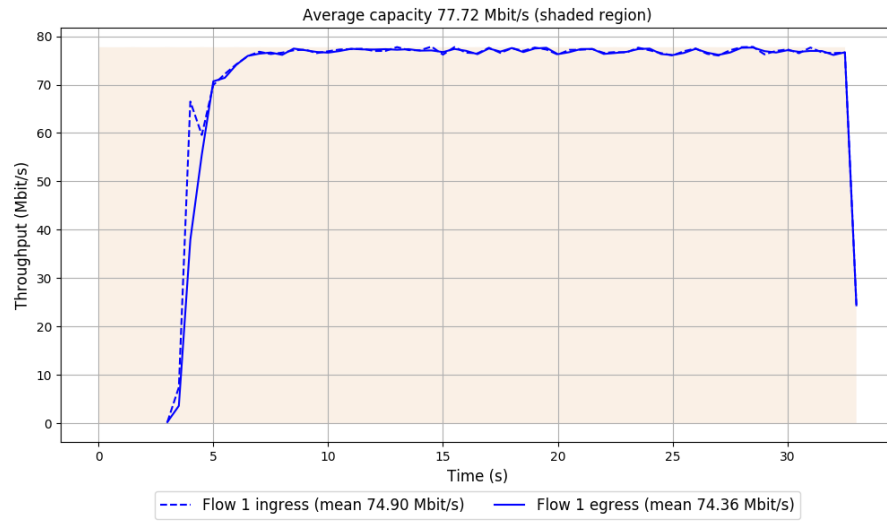
-- Flow 1:

Average throughput: 74.36 Mbit/s

95th percentile per-packet one-way delay: 57.167 ms

Loss rate: 0.88%

### Run 4: Report of Indigo-1-32 — Data Link



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-27 06:59:10

End at: 2018-02-27 06:59:40

# Below is generated by plot.py at 2018-02-27 08:28:51

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 74.03 Mbit/s (95.2% utilization)

95th percentile per-packet one-way delay: 58.383 ms

Loss rate: 2.01%

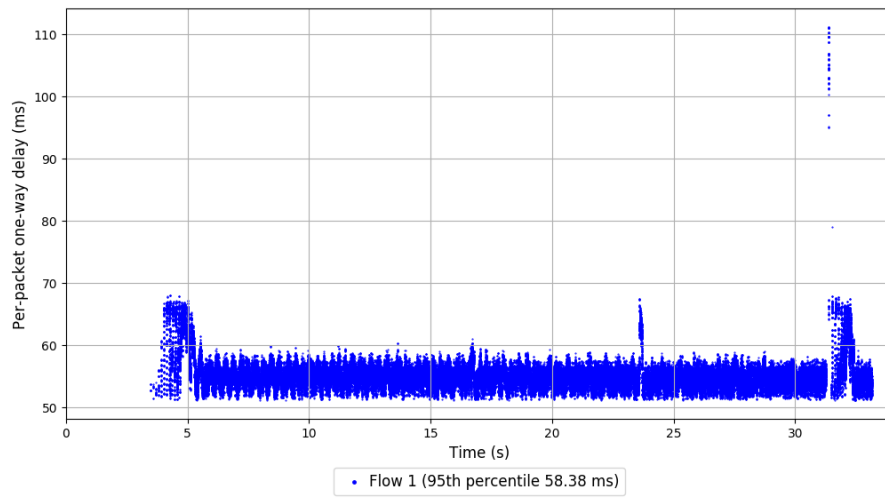
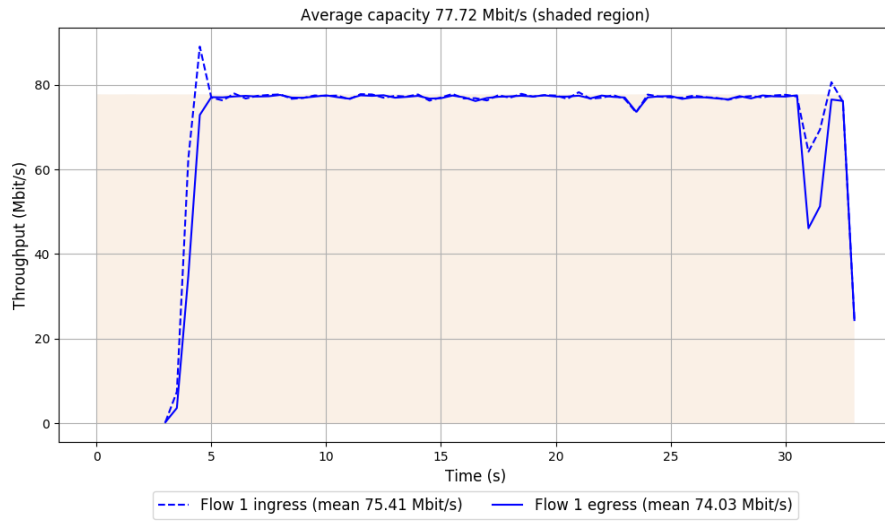
-- Flow 1:

Average throughput: 74.03 Mbit/s

95th percentile per-packet one-way delay: 58.383 ms

Loss rate: 2.01%

### Run 5: Report of Indigo-1-32 — Data Link



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-27 07:10:29

End at: 2018-02-27 07:10:59

# Below is generated by plot.py at 2018-02-27 08:29:11

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 75.06 Mbit/s (96.6% utilization)

95th percentile per-packet one-way delay: 59.669 ms

Loss rate: 1.63%

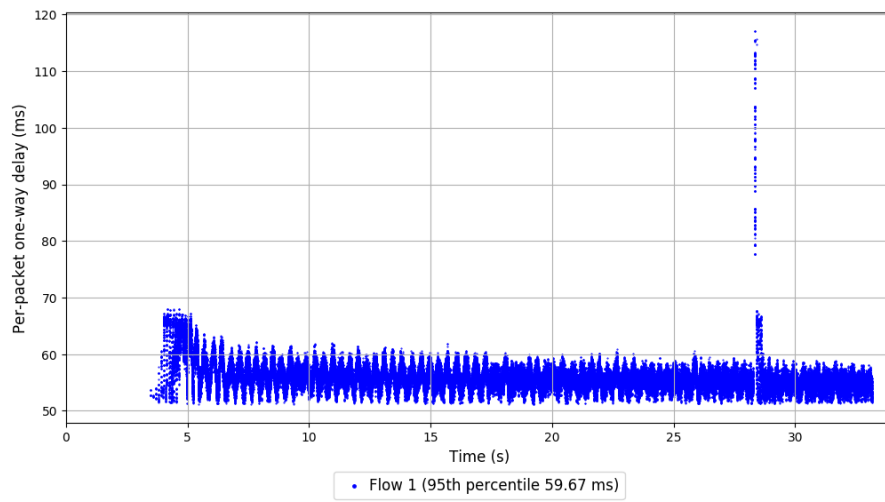
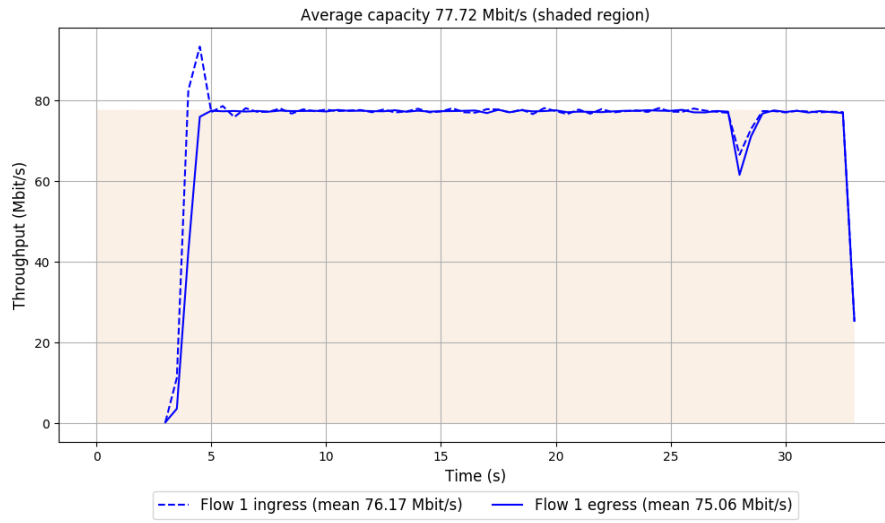
-- Flow 1:

Average throughput: 75.06 Mbit/s

95th percentile per-packet one-way delay: 59.669 ms

Loss rate: 1.63%

### Run 6: Report of Indigo-1-32 — Data Link



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-27 07:22:00

End at: 2018-02-27 07:22:30

# Below is generated by plot.py at 2018-02-27 08:29:22

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 75.16 Mbit/s (96.7% utilization)

95th percentile per-packet one-way delay: 57.580 ms

Loss rate: 1.11%

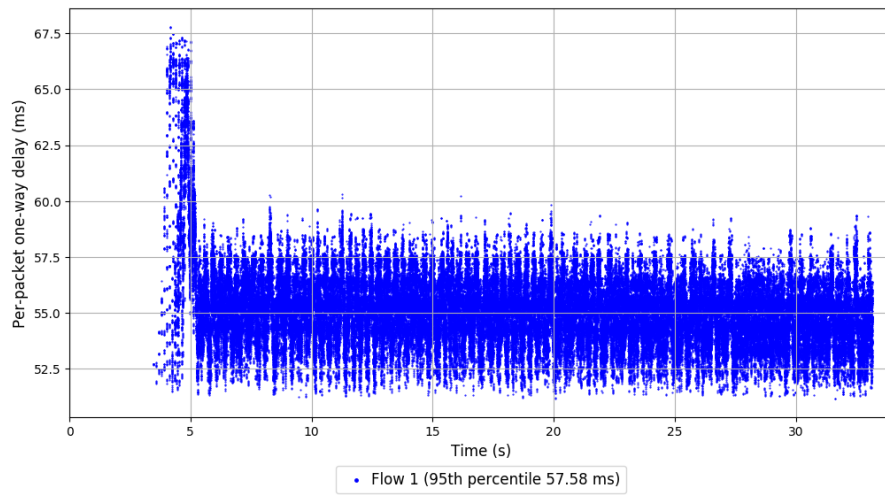
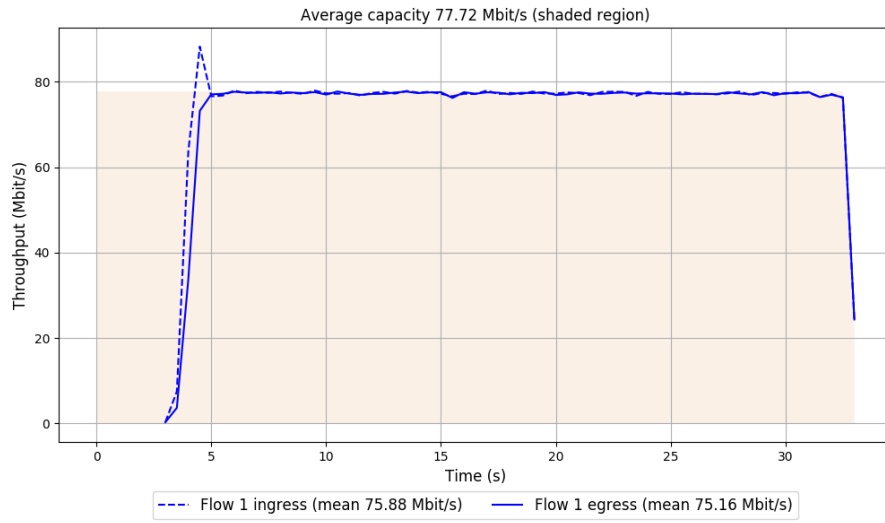
-- Flow 1:

Average throughput: 75.16 Mbit/s

95th percentile per-packet one-way delay: 57.580 ms

Loss rate: 1.11%

### Run 7: Report of Indigo-1-32 — Data Link



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-27 07:33:14

End at: 2018-02-27 07:33:44

# Below is generated by plot.py at 2018-02-27 08:29:22

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 74.24 Mbit/s (95.5% utilization)

95th percentile per-packet one-way delay: 58.464 ms

Loss rate: 1.29%

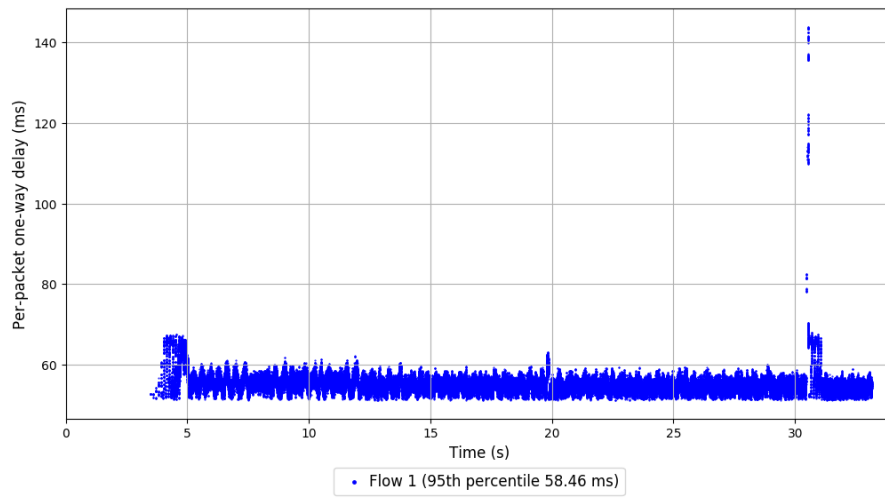
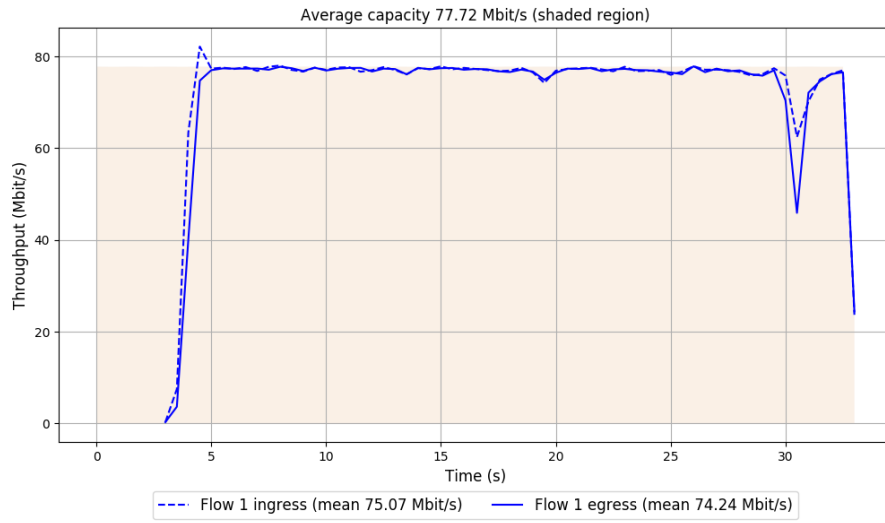
-- Flow 1:

Average throughput: 74.24 Mbit/s

95th percentile per-packet one-way delay: 58.464 ms

Loss rate: 1.29%

### Run 8: Report of Indigo-1-32 — Data Link



Run 9: Statistics of Indigo-1-32

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

End at: 2018-02-27 07:45:13

# Below is generated by plot.py at 2018-02-27 08:29:43

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 74.44 Mbit/s (95.8% utilization)

95th percentile per-packet one-way delay: 57.408 ms

Loss rate: 1.15%

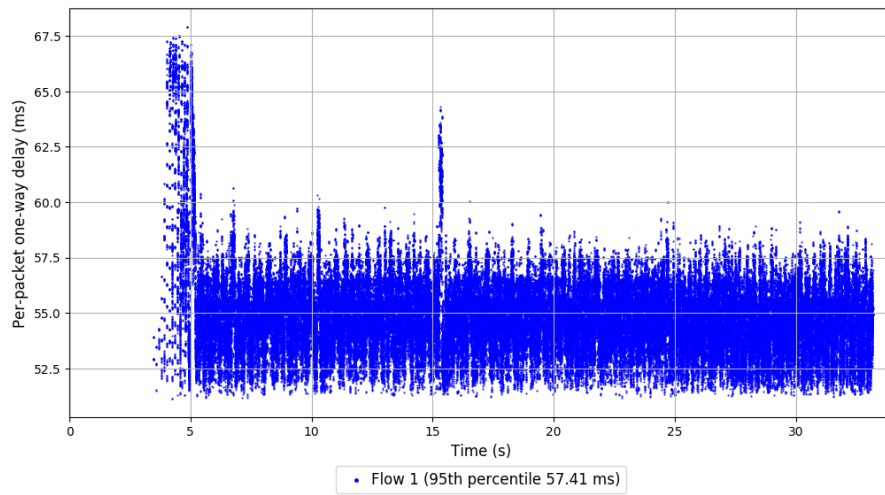
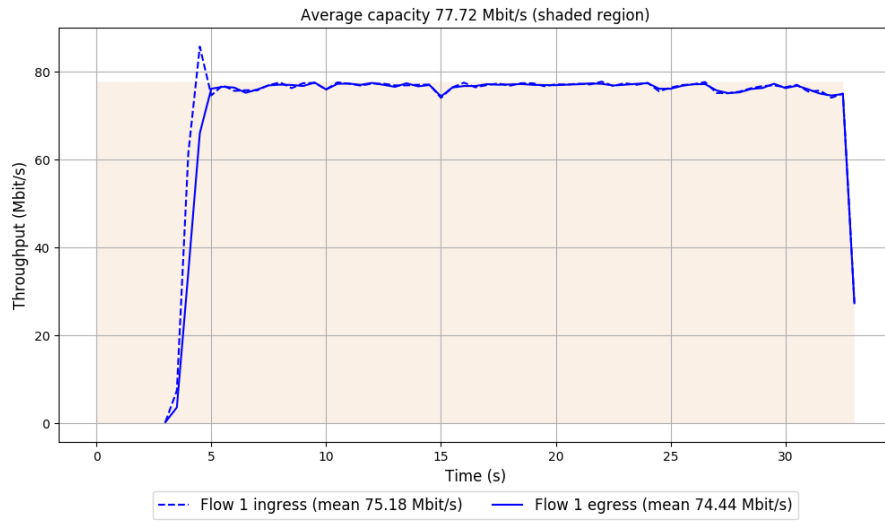
-- Flow 1:

Average throughput: 74.44 Mbit/s

95th percentile per-packet one-way delay: 57.408 ms

Loss rate: 1.15%

### Run 9: Report of Indigo-1-32 — Data Link



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-27 07:56:12

End at: 2018-02-27 07:56:42

# Below is generated by plot.py at 2018-02-27 08:30:00

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 74.47 Mbit/s (95.8% utilization)

95th percentile per-packet one-way delay: 58.785 ms

Loss rate: 1.64%

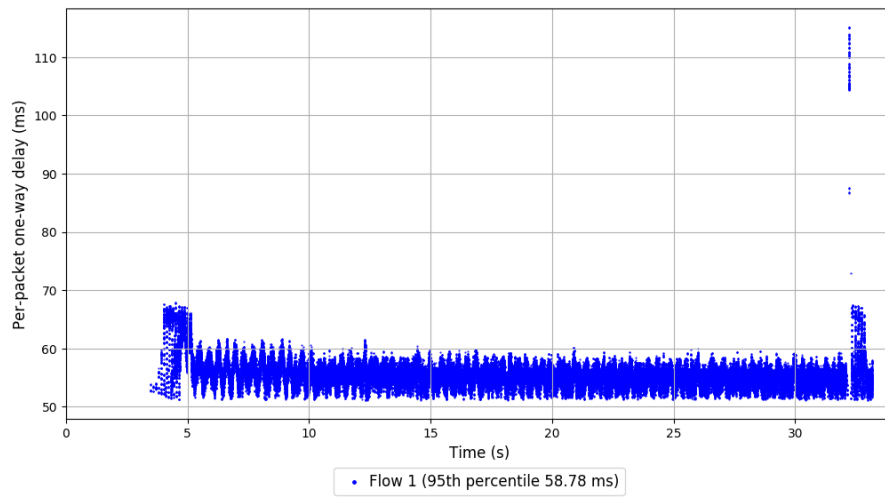
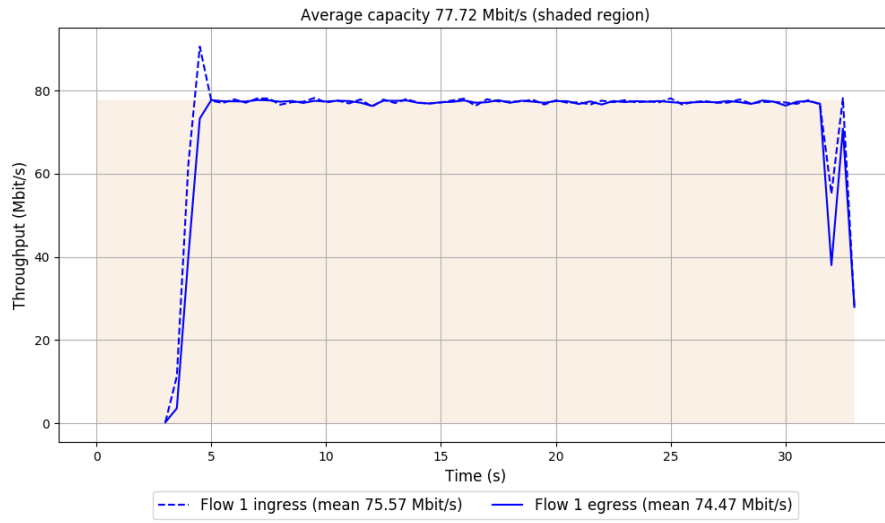
-- Flow 1:

Average throughput: 74.47 Mbit/s

95th percentile per-packet one-way delay: 58.785 ms

Loss rate: 1.64%

Run 10: Report of Indigo-1-32 — Data Link



Run 1: Statistics of Vivace-latency

Start at: 2018-02-27 06:17:16

End at: 2018-02-27 06:17:46

# Below is generated by plot.py at 2018-02-27 08:30:00

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 67.57 Mbit/s (86.9% utilization)

95th percentile per-packet one-way delay: 54.274 ms

Loss rate: 0.79%

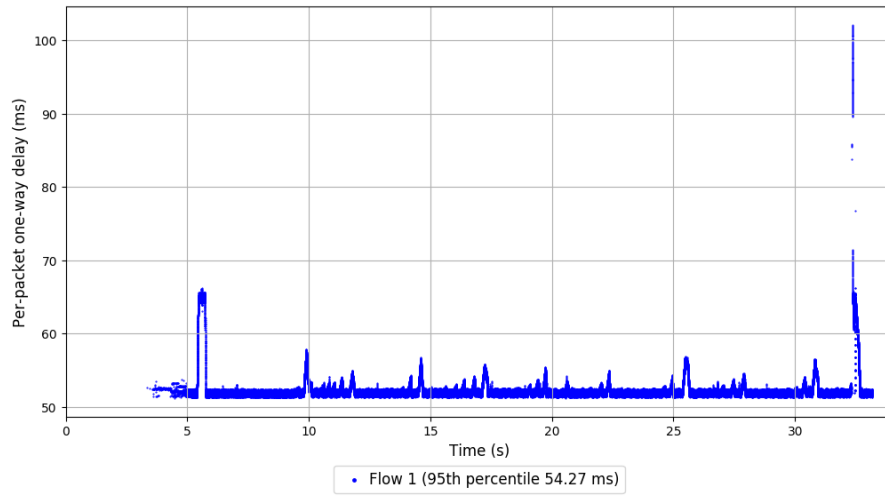
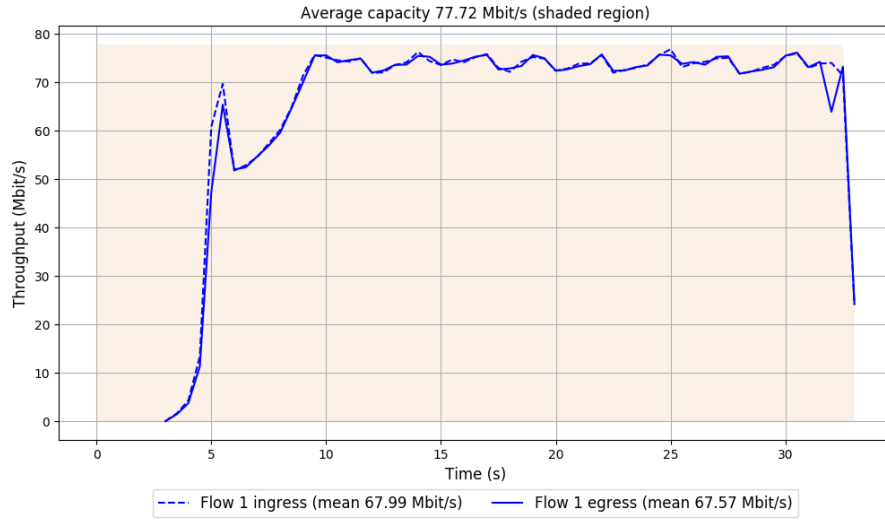
-- Flow 1:

Average throughput: 67.57 Mbit/s

95th percentile per-packet one-way delay: 54.274 ms

Loss rate: 0.79%

# Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-27 06:28:50

End at: 2018-02-27 06:29:20

# Below is generated by plot.py at 2018-02-27 08:30:18

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 67.73 Mbit/s (87.1% utilization)

95th percentile per-packet one-way delay: 54.498 ms

Loss rate: 0.76%

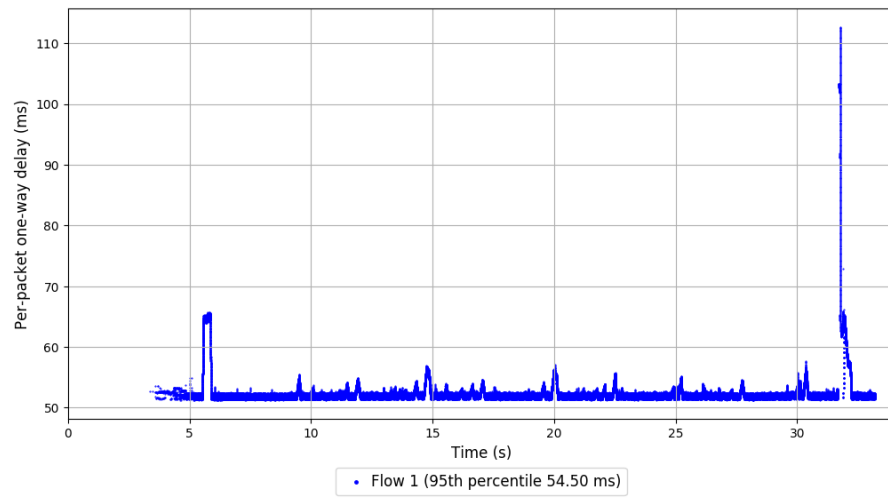
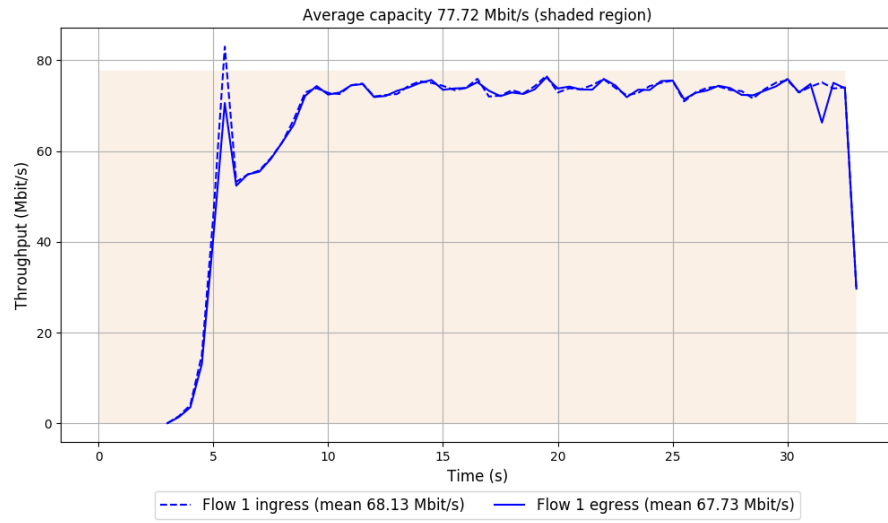
-- Flow 1:

Average throughput: 67.73 Mbit/s

95th percentile per-packet one-way delay: 54.498 ms

Loss rate: 0.76%

## Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-27 06:40:23

End at: 2018-02-27 06:40:53

# Below is generated by plot.py at 2018-02-27 08:30:34

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 67.63 Mbit/s (87.0% utilization)

95th percentile per-packet one-way delay: 54.337 ms

Loss rate: 0.85%

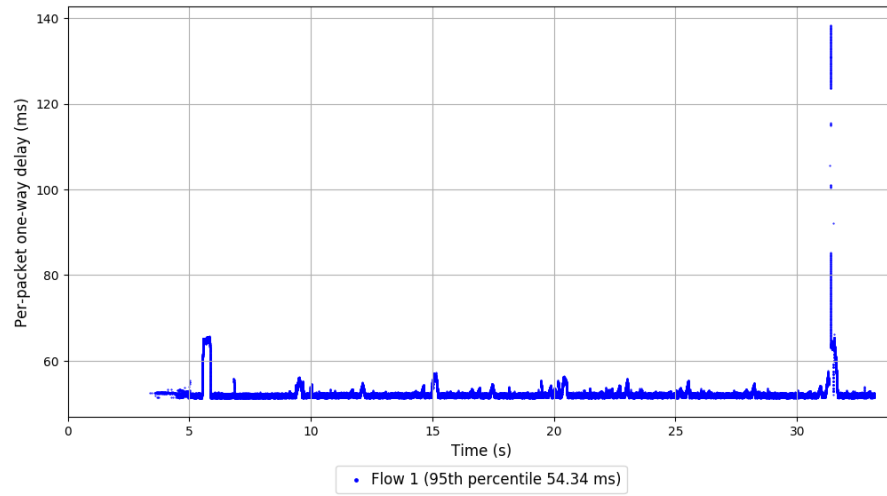
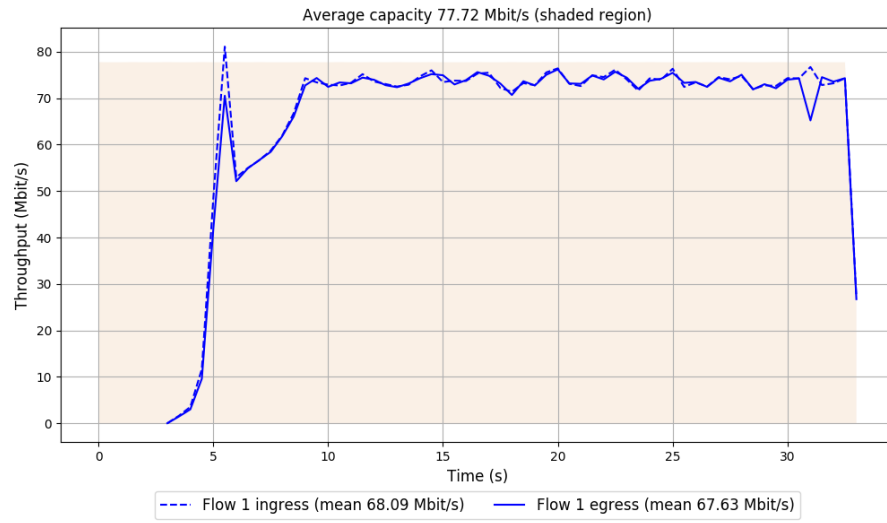
-- Flow 1:

Average throughput: 67.63 Mbit/s

95th percentile per-packet one-way delay: 54.337 ms

Loss rate: 0.85%

### Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

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

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

# Below is generated by plot.py at 2018-02-27 08:30:52

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 67.25 Mbit/s (86.5% utilization)

95th percentile per-packet one-way delay: 54.207 ms

Loss rate: 0.82%

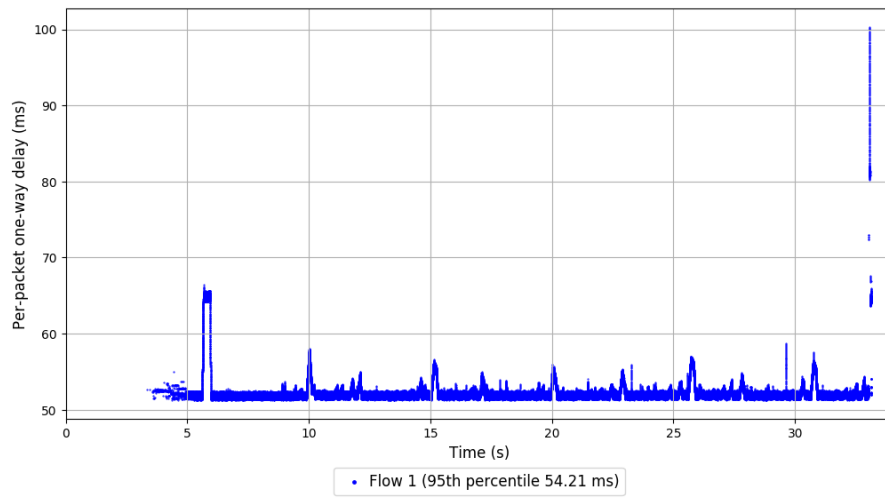
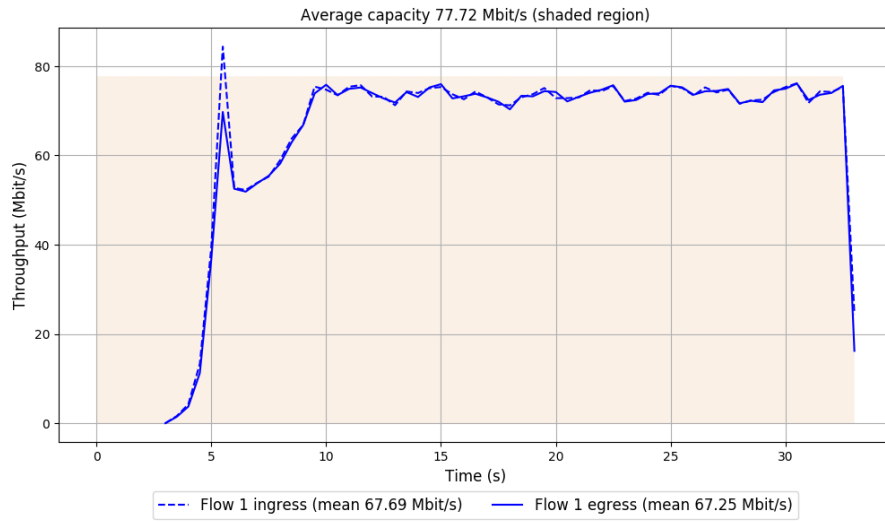
-- Flow 1:

Average throughput: 67.25 Mbit/s

95th percentile per-packet one-way delay: 54.207 ms

Loss rate: 0.82%

### Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-27 07:03:23

End at: 2018-02-27 07:03:53

# Below is generated by plot.py at 2018-02-27 08:31:03

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 67.40 Mbit/s (86.7% utilization)

95th percentile per-packet one-way delay: 54.567 ms

Loss rate: 0.75%

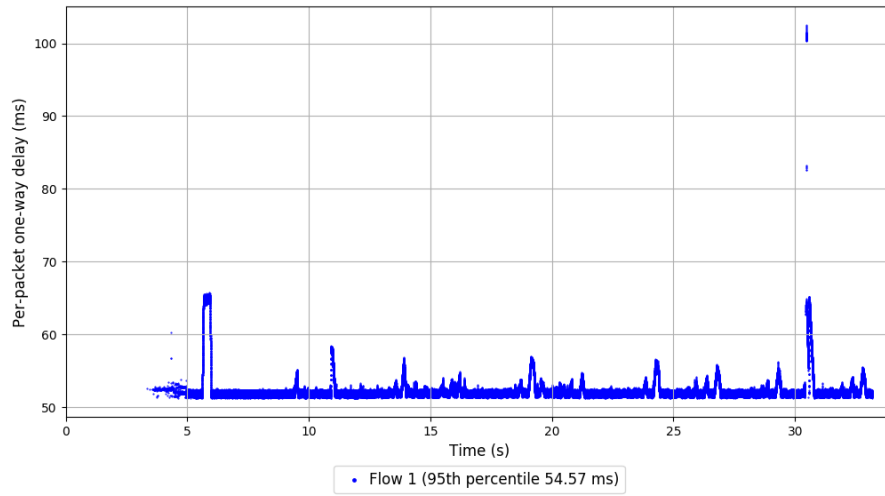
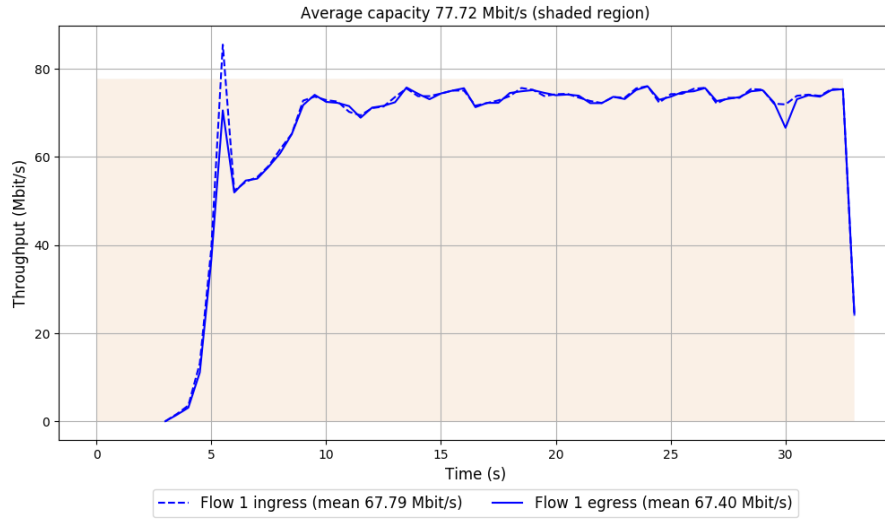
-- Flow 1:

Average throughput: 67.40 Mbit/s

95th percentile per-packet one-way delay: 54.567 ms

Loss rate: 0.75%

### Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-27 07:14:42

End at: 2018-02-27 07:15:12

# Below is generated by plot.py at 2018-02-27 08:31:04

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 67.38 Mbit/s (86.7% utilization)

95th percentile per-packet one-way delay: 54.287 ms

Loss rate: 0.88%

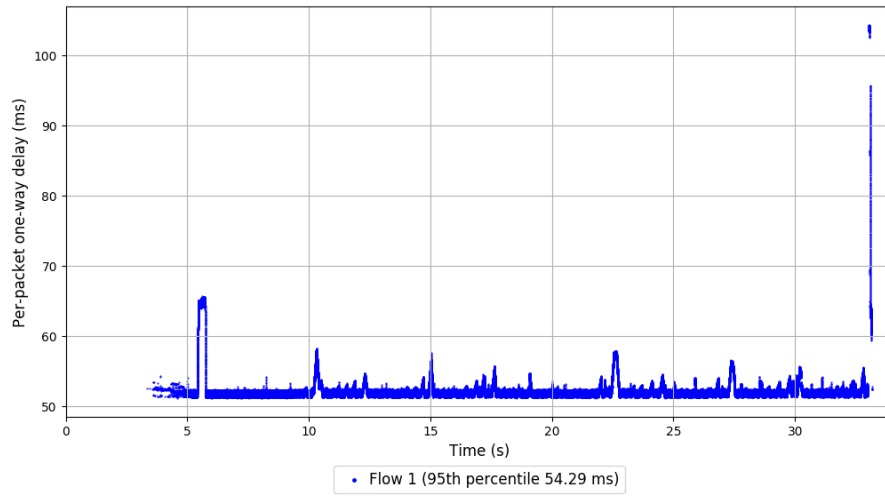
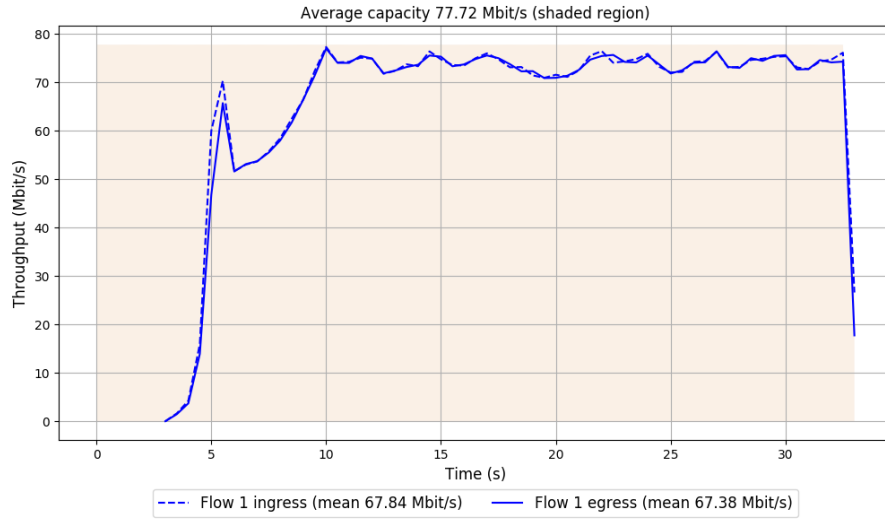
-- Flow 1:

Average throughput: 67.38 Mbit/s

95th percentile per-packet one-way delay: 54.287 ms

Loss rate: 0.88%

### Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-27 07:26:13

End at: 2018-02-27 07:26:43

# Below is generated by plot.py at 2018-02-27 08:31:25

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 67.41 Mbit/s (86.7% utilization)

95th percentile per-packet one-way delay: 53.590 ms

Loss rate: 0.79%

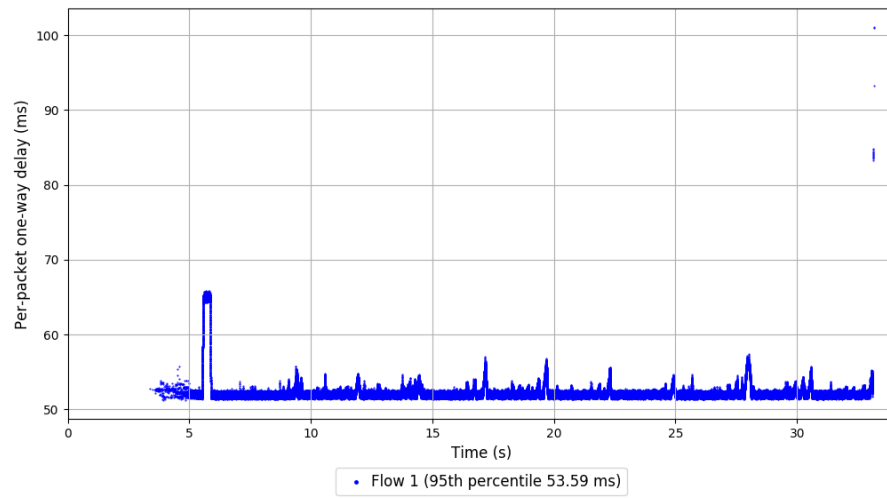
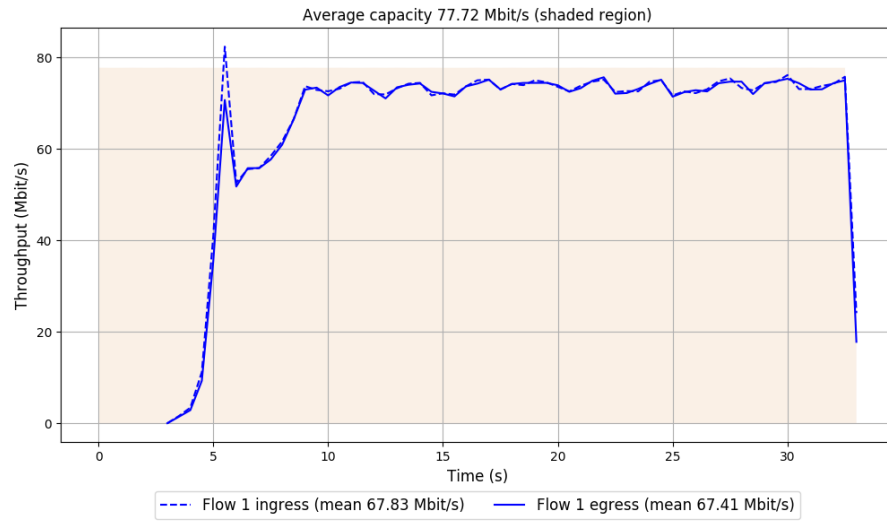
-- Flow 1:

Average throughput: 67.41 Mbit/s

95th percentile per-packet one-way delay: 53.590 ms

Loss rate: 0.79%

### Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

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

End at: 2018-02-27 07:37:57

# Below is generated by plot.py at 2018-02-27 08:31:40

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 67.78 Mbit/s (87.2% utilization)

95th percentile per-packet one-way delay: 53.950 ms

Loss rate: 0.61%

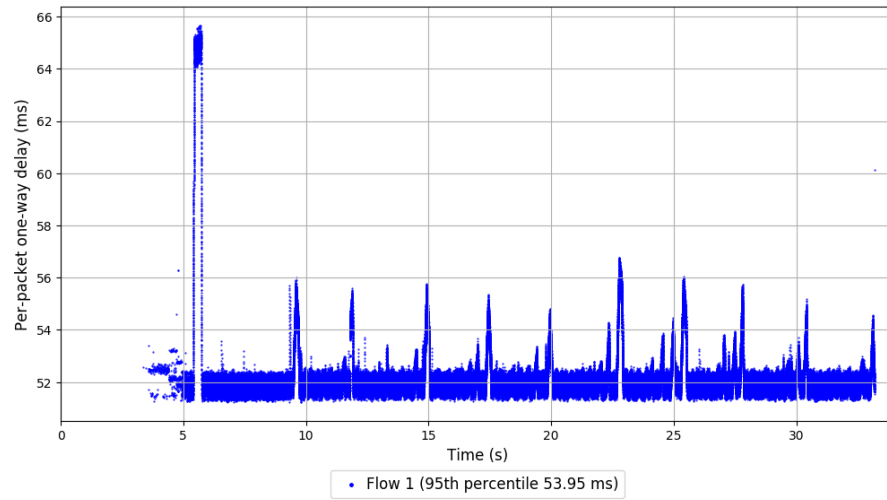
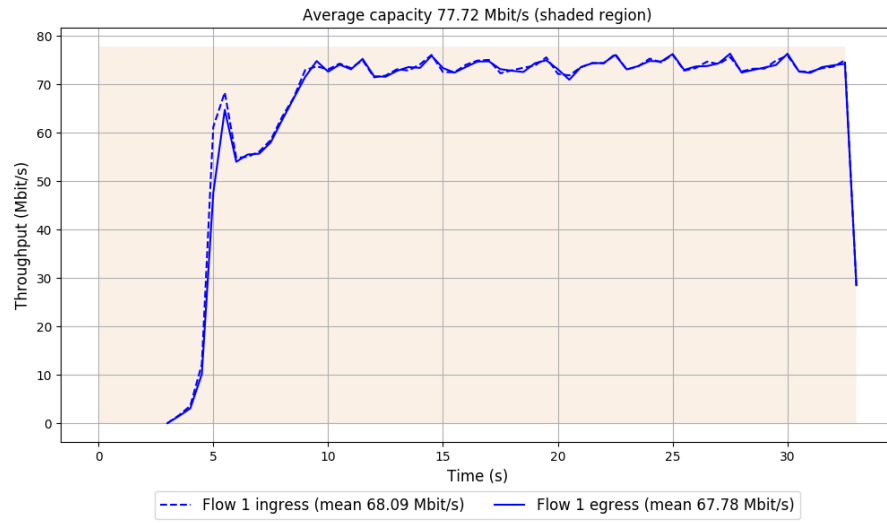
-- Flow 1:

Average throughput: 67.78 Mbit/s

95th percentile per-packet one-way delay: 53.950 ms

Loss rate: 0.61%

### Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-27 07:48:57

End at: 2018-02-27 07:49:27

# Below is generated by plot.py at 2018-02-27 08:31:41

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 67.03 Mbit/s (86.2% utilization)

95th percentile per-packet one-way delay: 54.763 ms

Loss rate: 0.98%

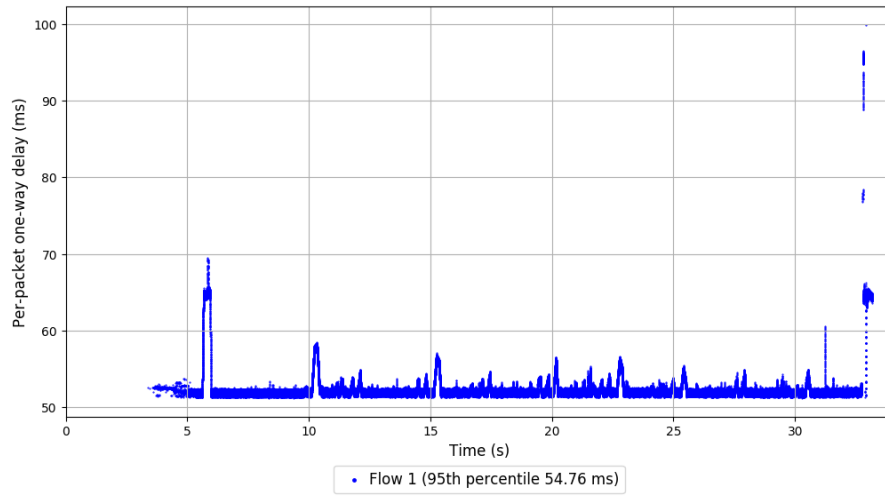
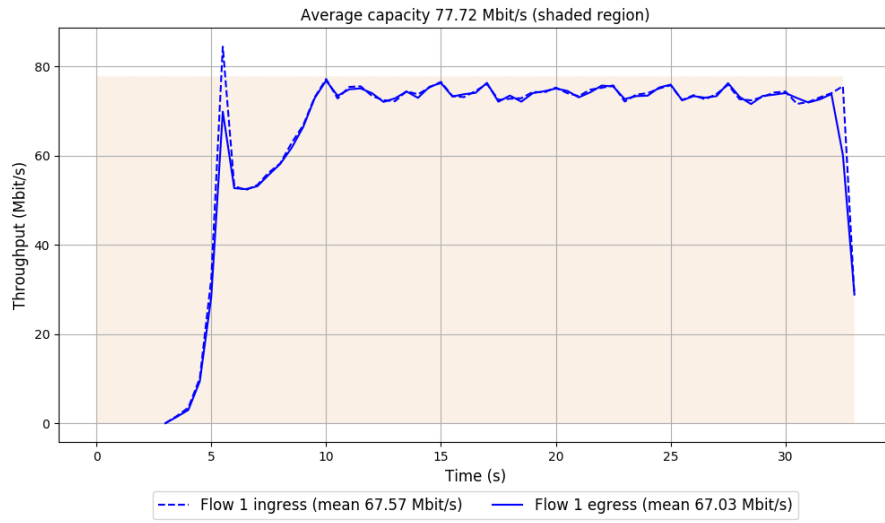
-- Flow 1:

Average throughput: 67.03 Mbit/s

95th percentile per-packet one-way delay: 54.763 ms

Loss rate: 0.98%

### Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-27 08:00:24

End at: 2018-02-27 08:00:54

# Below is generated by plot.py at 2018-02-27 08:32:01

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 66.94 Mbit/s (86.1% utilization)

95th percentile per-packet one-way delay: 54.397 ms

Loss rate: 0.73%

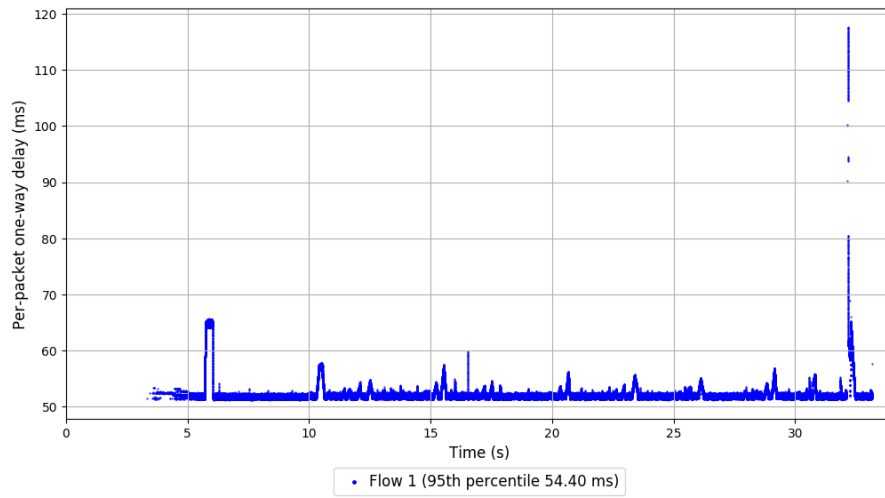
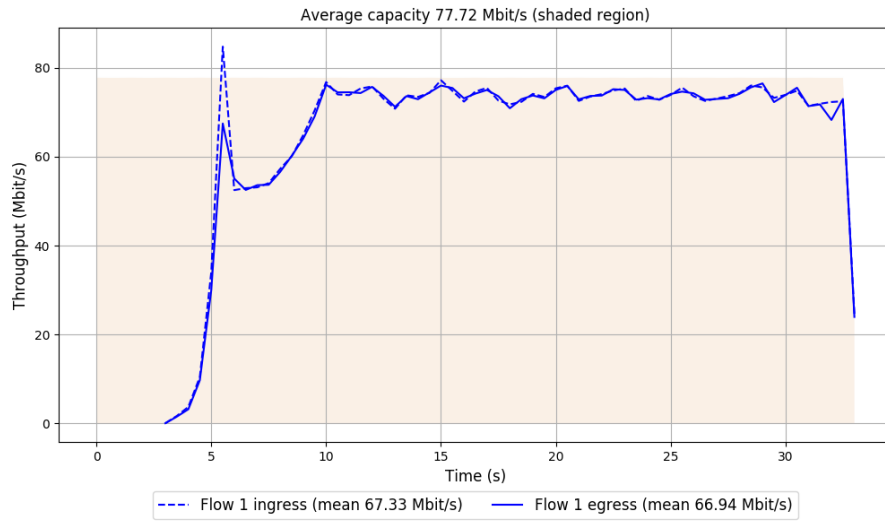
-- Flow 1:

Average throughput: 66.94 Mbit/s

95th percentile per-packet one-way delay: 54.397 ms

Loss rate: 0.73%

Run 10: Report of Vivace-latency — Data Link



Run 1: Statistics of Vivace-loss

Start at: 2018-02-27 06:10:54

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

# Below is generated by plot.py at 2018-02-27 08:32:18

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 69.64 Mbit/s (89.6% utilization)

95th percentile per-packet one-way delay: 64.966 ms

Loss rate: 1.93%

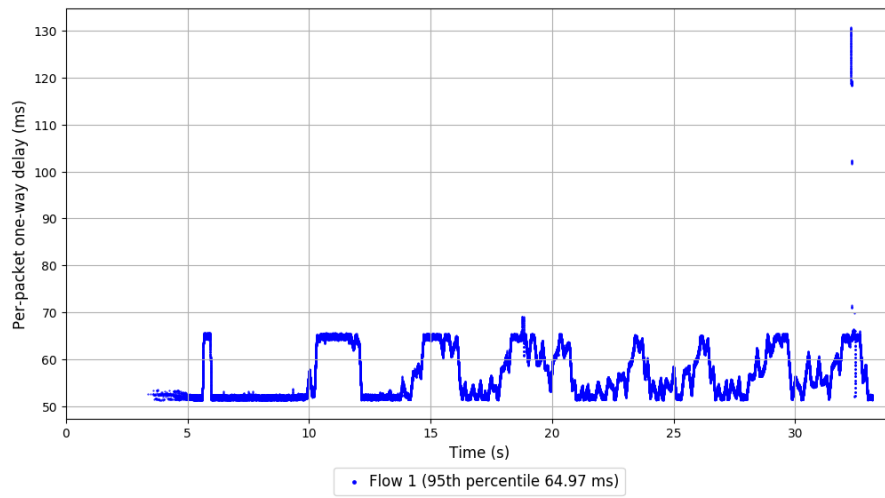
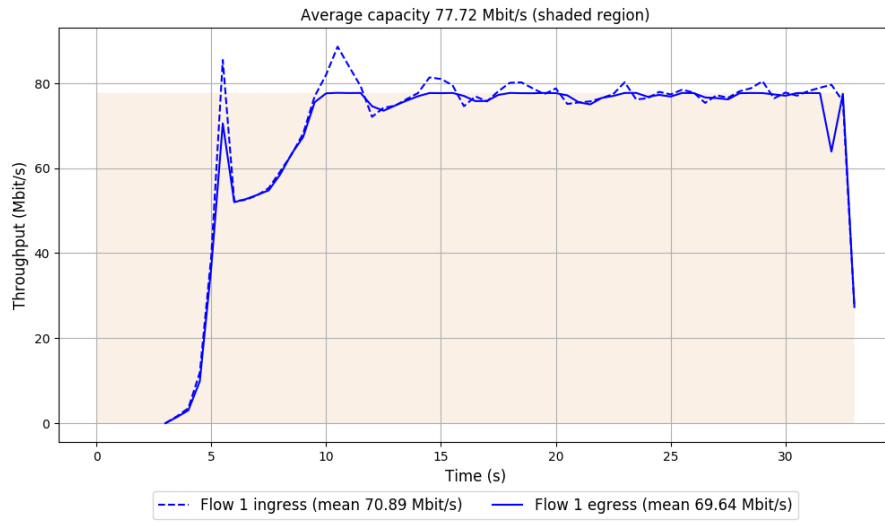
-- Flow 1:

Average throughput: 69.64 Mbit/s

95th percentile per-packet one-way delay: 64.966 ms

Loss rate: 1.93%

# Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-27 06:22:21

End at: 2018-02-27 06:22:51

# Below is generated by plot.py at 2018-02-27 08:32:36

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 69.96 Mbit/s (90.0% utilization)

95th percentile per-packet one-way delay: 64.772 ms

Loss rate: 1.33%

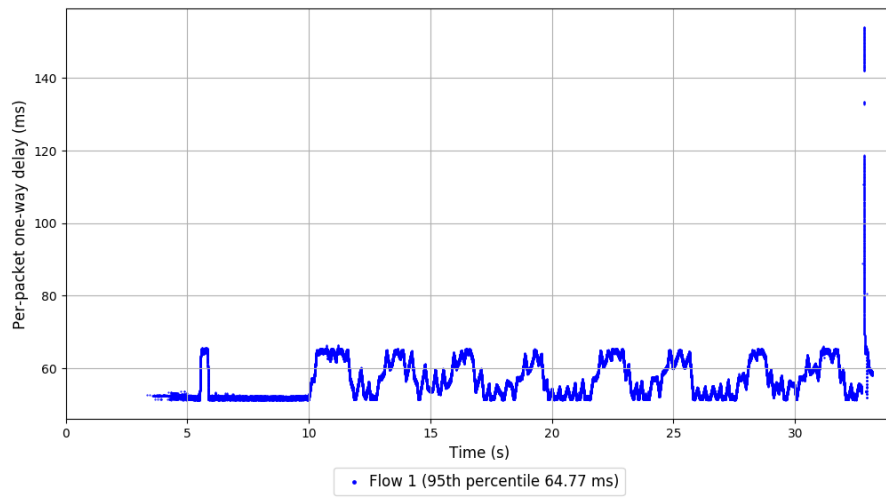
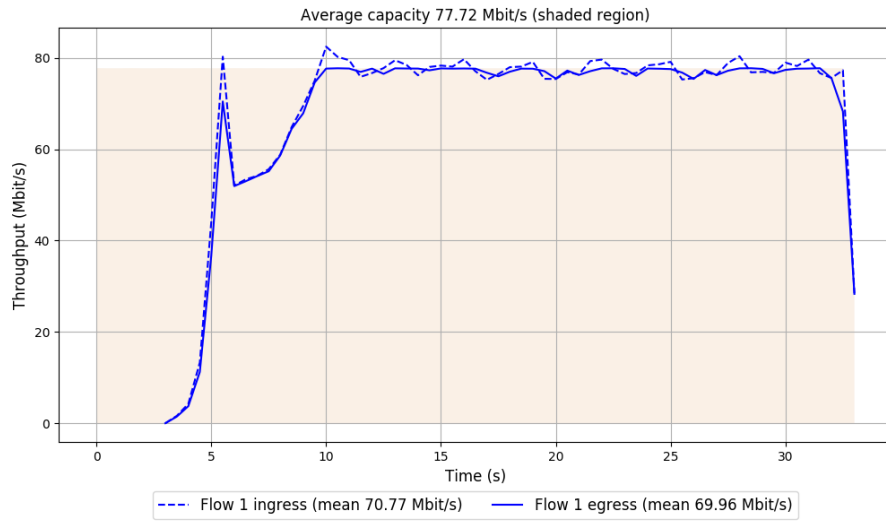
-- Flow 1:

Average throughput: 69.96 Mbit/s

95th percentile per-packet one-way delay: 64.772 ms

Loss rate: 1.33%

## Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-27 06:33:59

End at: 2018-02-27 06:34:29

# Below is generated by plot.py at 2018-02-27 08:32:47

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 70.13 Mbit/s (90.2% utilization)

95th percentile per-packet one-way delay: 64.768 ms

Loss rate: 1.22%

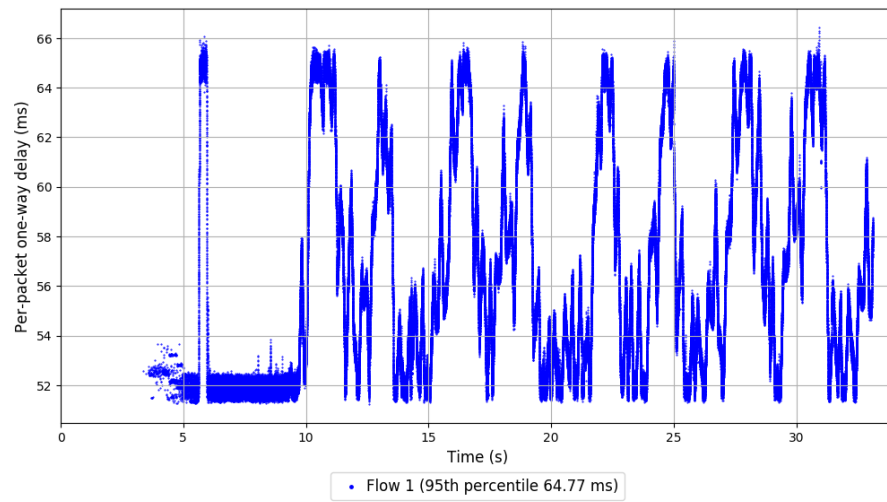
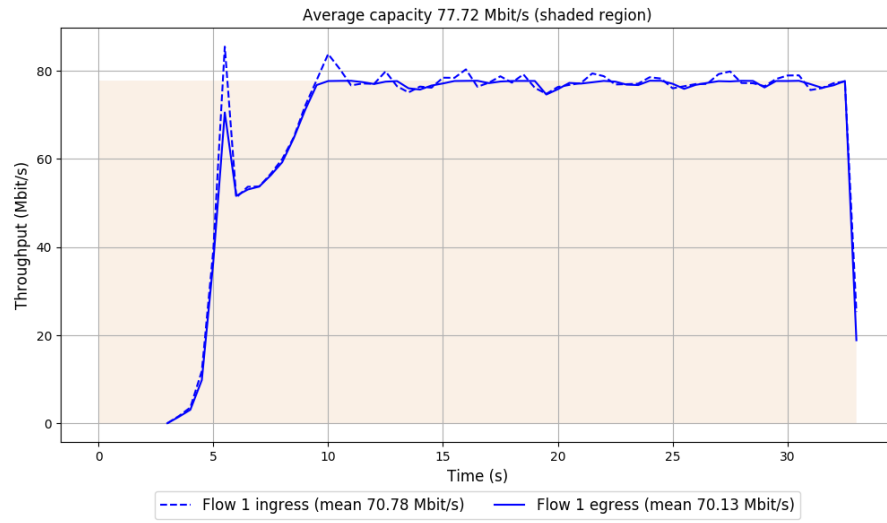
-- Flow 1:

Average throughput: 70.13 Mbit/s

95th percentile per-packet one-way delay: 64.768 ms

Loss rate: 1.22%

### Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-27 06:45:28

End at: 2018-02-27 06:45:58

# Below is generated by plot.py at 2018-02-27 08:32:47

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 70.21 Mbit/s (90.3% utilization)

95th percentile per-packet one-way delay: 64.776 ms

Loss rate: 1.20%

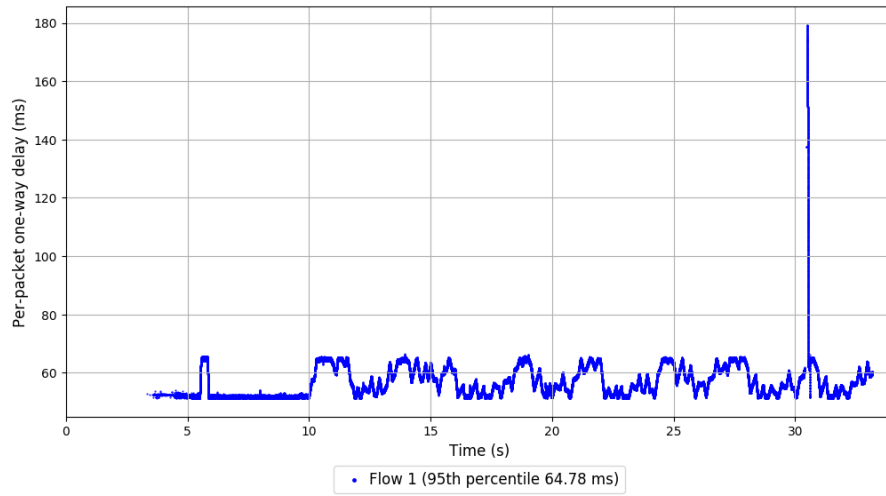
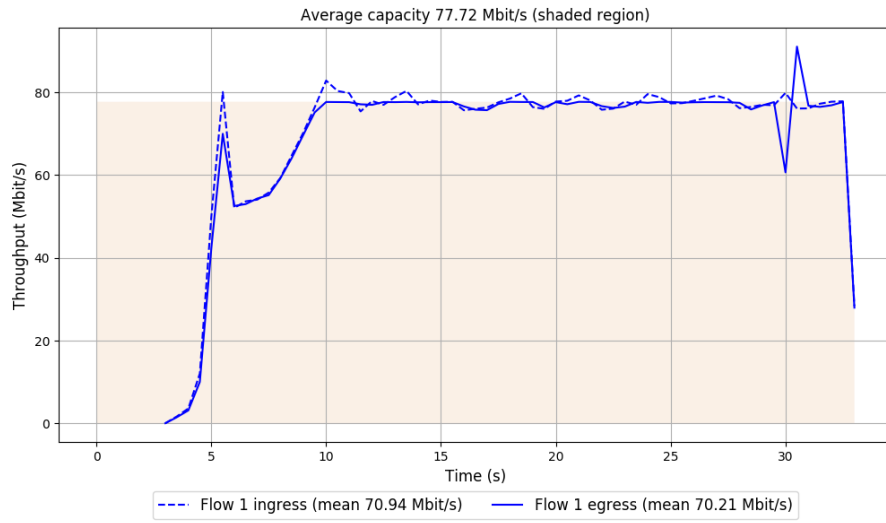
-- Flow 1:

Average throughput: 70.21 Mbit/s

95th percentile per-packet one-way delay: 64.776 ms

Loss rate: 1.20%

#### Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-27 06:56:59

End at: 2018-02-27 06:57:29

# Below is generated by plot.py at 2018-02-27 08:33:09

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 69.96 Mbit/s (90.0% utilization)

95th percentile per-packet one-way delay: 64.872 ms

Loss rate: 1.39%

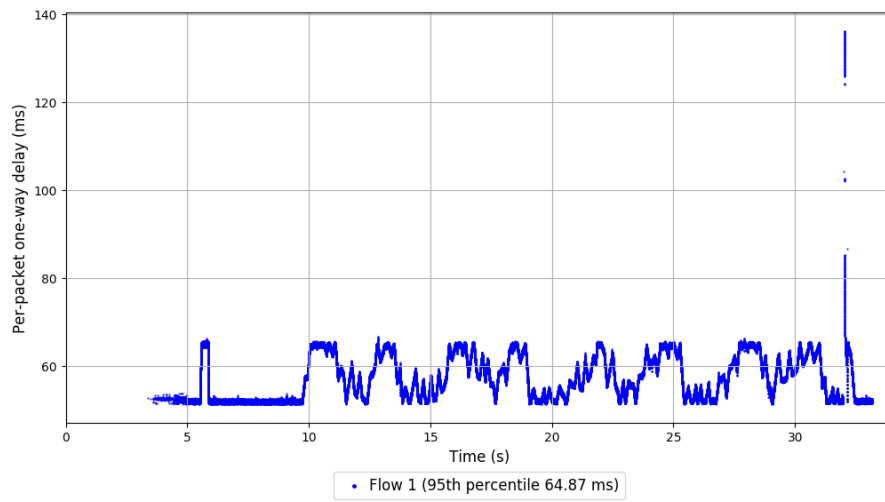
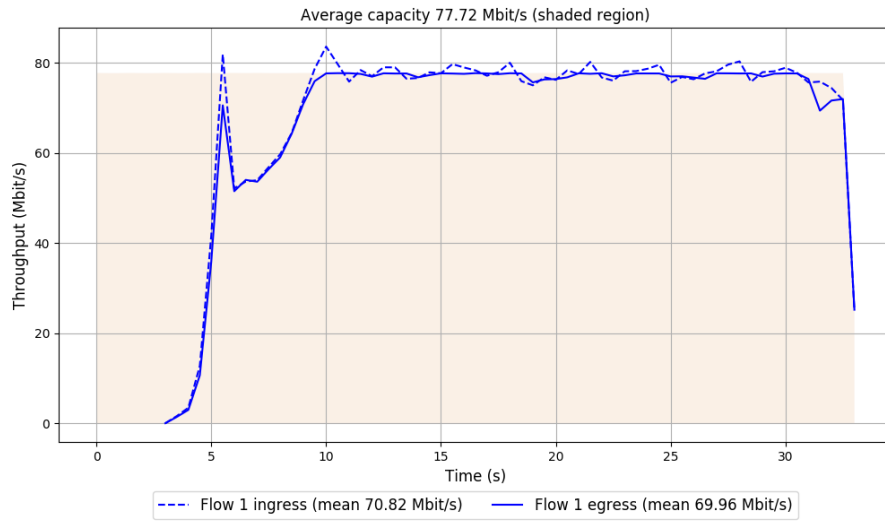
-- Flow 1:

Average throughput: 69.96 Mbit/s

95th percentile per-packet one-way delay: 64.872 ms

Loss rate: 1.39%

### Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-27 07:08:30

End at: 2018-02-27 07:09:00

# Below is generated by plot.py at 2018-02-27 08:33:20

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 70.03 Mbit/s (90.1% utilization)

95th percentile per-packet one-way delay: 64.762 ms

Loss rate: 1.06%

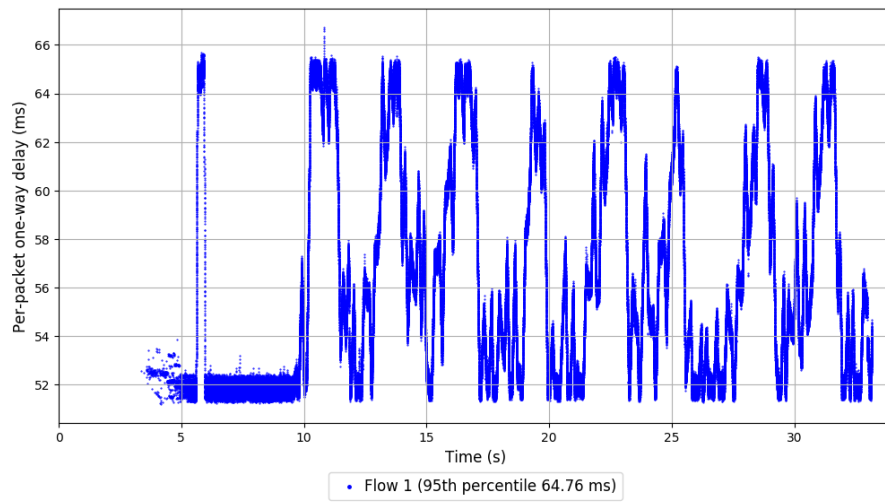
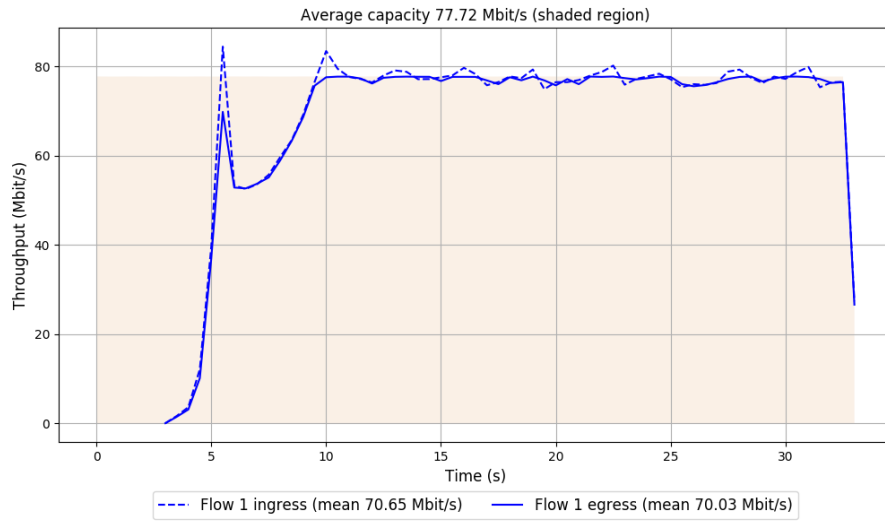
-- Flow 1:

Average throughput: 70.03 Mbit/s

95th percentile per-packet one-way delay: 64.762 ms

Loss rate: 1.06%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-27 07:19:50

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

# Below is generated by plot.py at 2018-02-27 08:33:26

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 70.16 Mbit/s (90.3% utilization)

95th percentile per-packet one-way delay: 64.867 ms

Loss rate: 1.34%

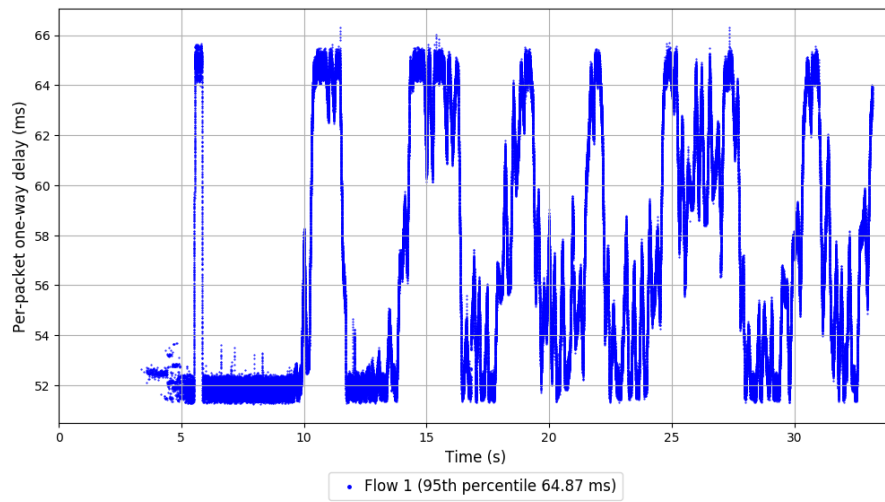
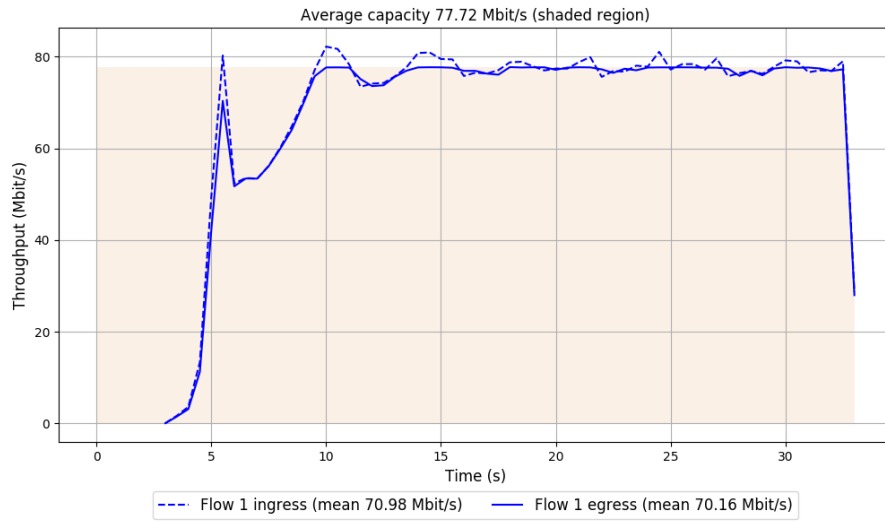
-- Flow 1:

Average throughput: 70.16 Mbit/s

95th percentile per-packet one-way delay: 64.867 ms

Loss rate: 1.34%

### Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-27 07:31:18

End at: 2018-02-27 07:31:48

# Below is generated by plot.py at 2018-02-27 08:33:47

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 70.46 Mbit/s (90.7% utilization)

95th percentile per-packet one-way delay: 64.781 ms

Loss rate: 1.12%

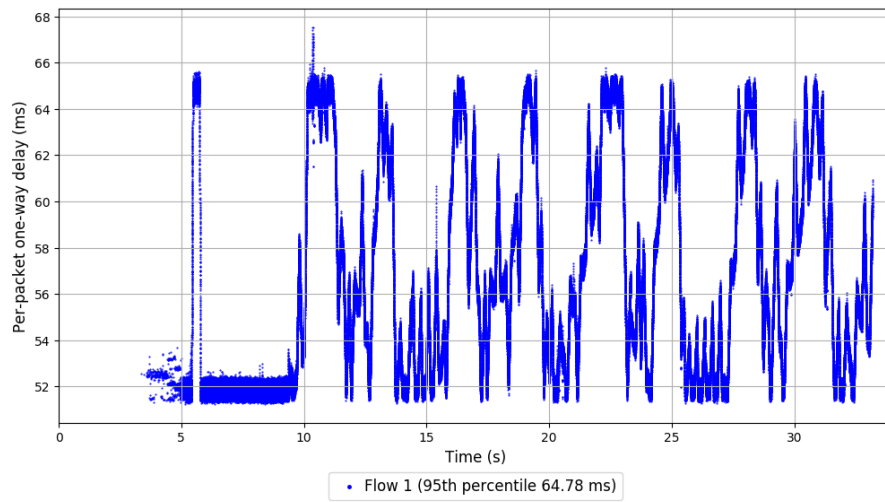
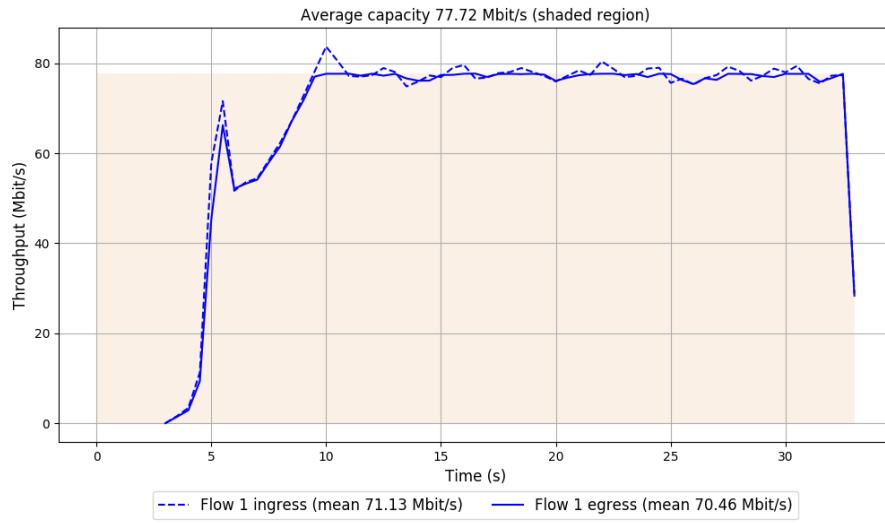
-- Flow 1:

Average throughput: 70.46 Mbit/s

95th percentile per-packet one-way delay: 64.781 ms

Loss rate: 1.12%

### Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-27 07:42:33

End at: 2018-02-27 07:43:03

# Below is generated by plot.py at 2018-02-27 08:34:10

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 70.21 Mbit/s (90.3% utilization)

95th percentile per-packet one-way delay: 64.831 ms

Loss rate: 1.11%

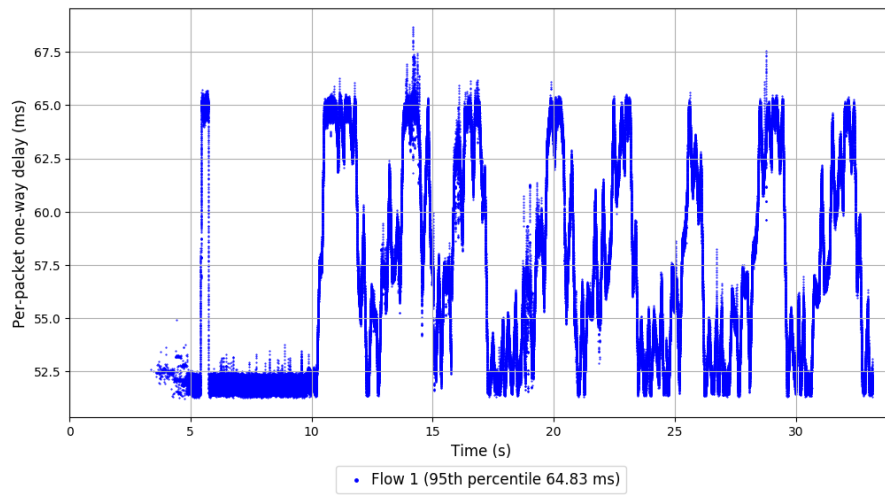
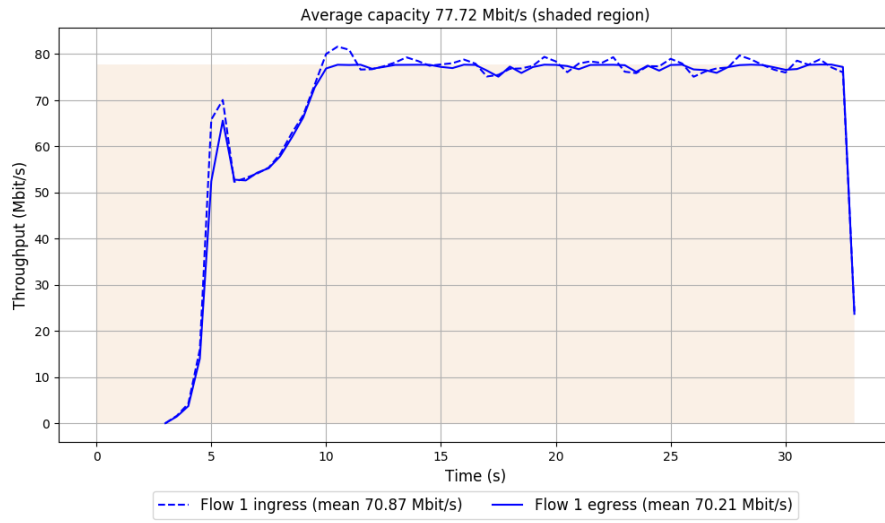
-- Flow 1:

Average throughput: 70.21 Mbit/s

95th percentile per-packet one-way delay: 64.831 ms

Loss rate: 1.11%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-27 07:54:03

End at: 2018-02-27 07:54:33

# Below is generated by plot.py at 2018-02-27 08:34:21

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 70.19 Mbit/s (90.3% utilization)

95th percentile per-packet one-way delay: 64.875 ms

Loss rate: 1.26%

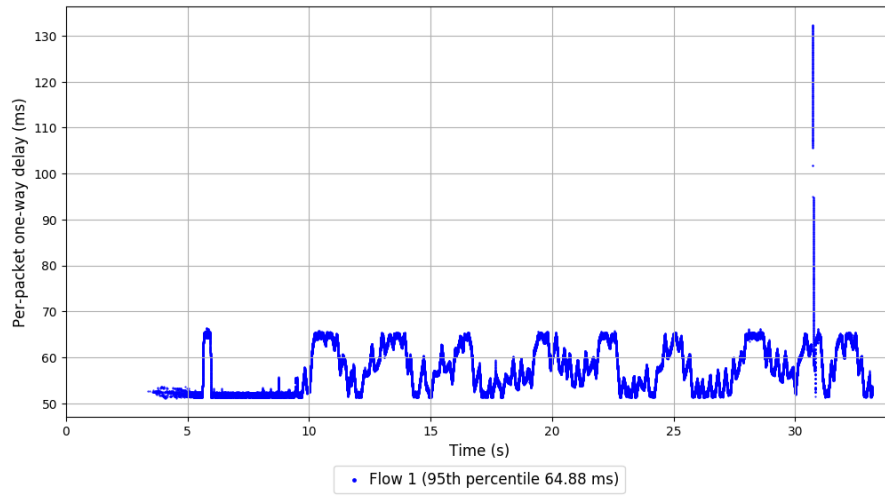
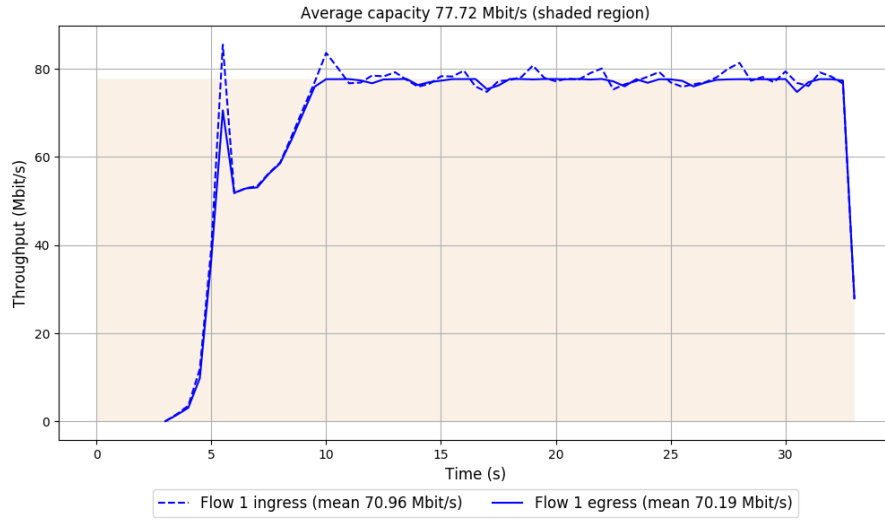
-- Flow 1:

Average throughput: 70.19 Mbit/s

95th percentile per-packet one-way delay: 64.875 ms

Loss rate: 1.26%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-02-27 06:10:15

End at: 2018-02-27 06:10:45

# Below is generated by plot.py at 2018-02-27 08:34:31

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 68.93 Mbit/s (88.7% utilization)

95th percentile per-packet one-way delay: 56.902 ms

Loss rate: 0.61%

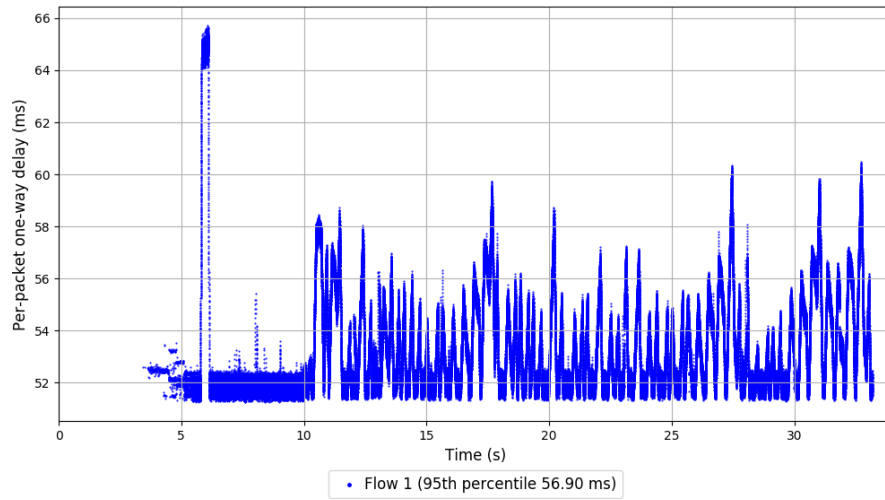
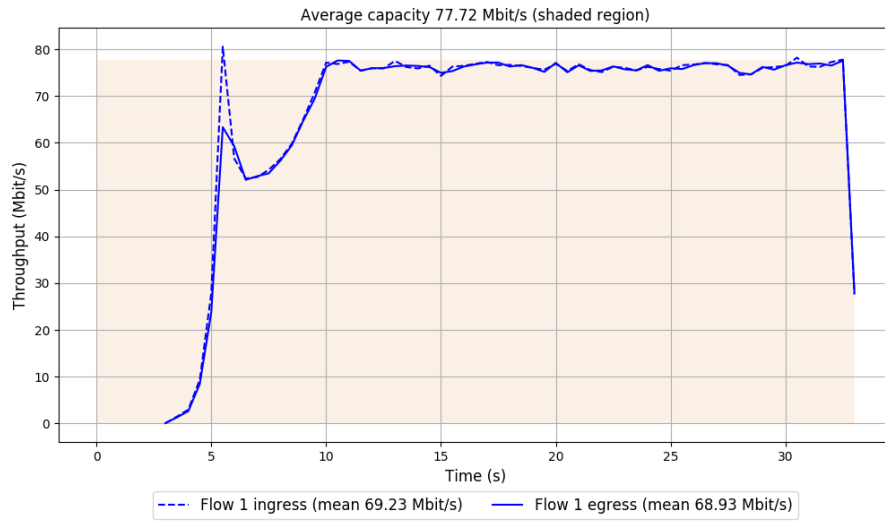
-- Flow 1:

Average throughput: 68.93 Mbit/s

95th percentile per-packet one-way delay: 56.902 ms

Loss rate: 0.61%

# Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-27 06:21:42

End at: 2018-02-27 06:22:12

# Below is generated by plot.py at 2018-02-27 08:34:32

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 68.94 Mbit/s (88.7% utilization)

95th percentile per-packet one-way delay: 60.007 ms

Loss rate: 0.86%

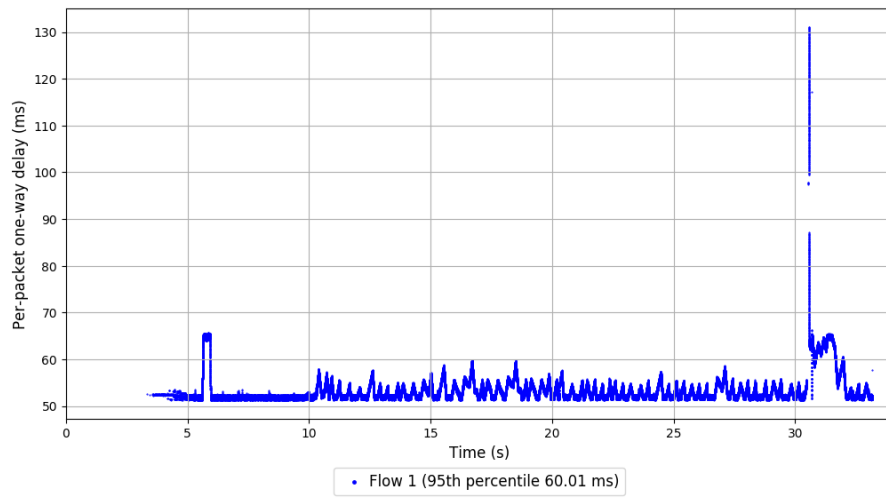
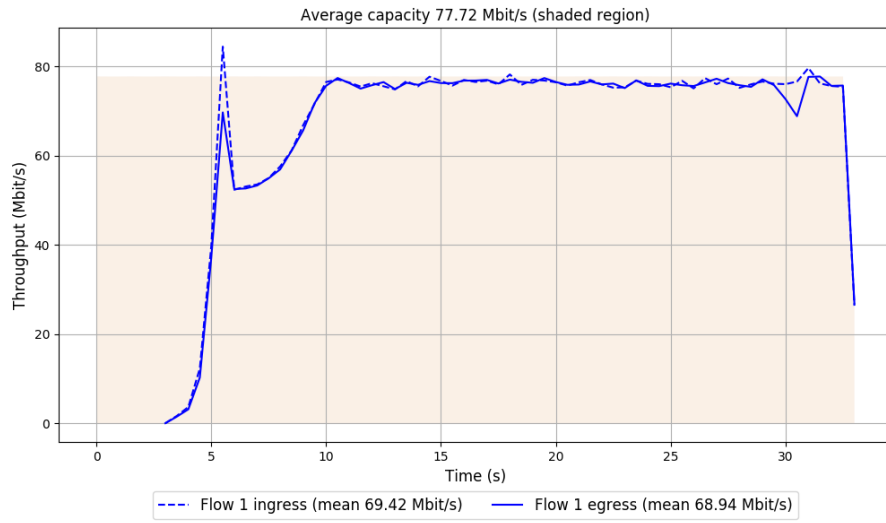
-- Flow 1:

Average throughput: 68.94 Mbit/s

95th percentile per-packet one-way delay: 60.007 ms

Loss rate: 0.86%

## Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-27 06:33:19

End at: 2018-02-27 06:33:49

# Below is generated by plot.py at 2018-02-27 08:34:54

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 69.29 Mbit/s (89.1% utilization)

95th percentile per-packet one-way delay: 56.949 ms

Loss rate: 0.72%

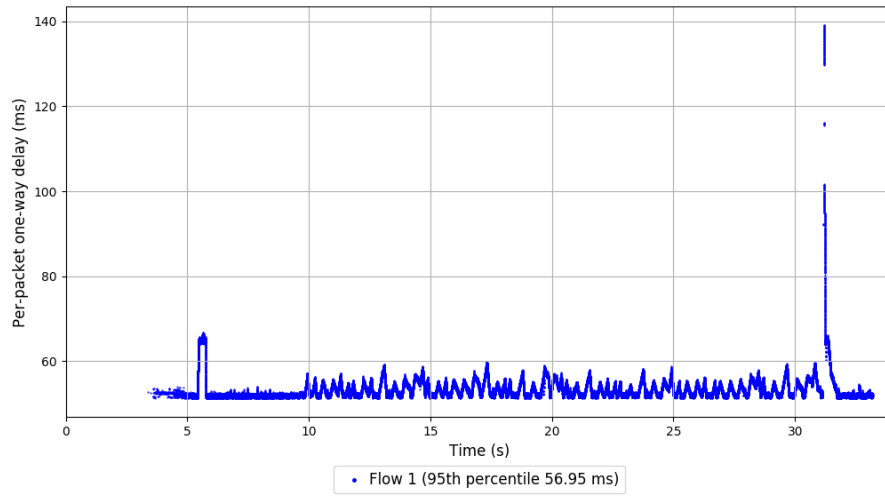
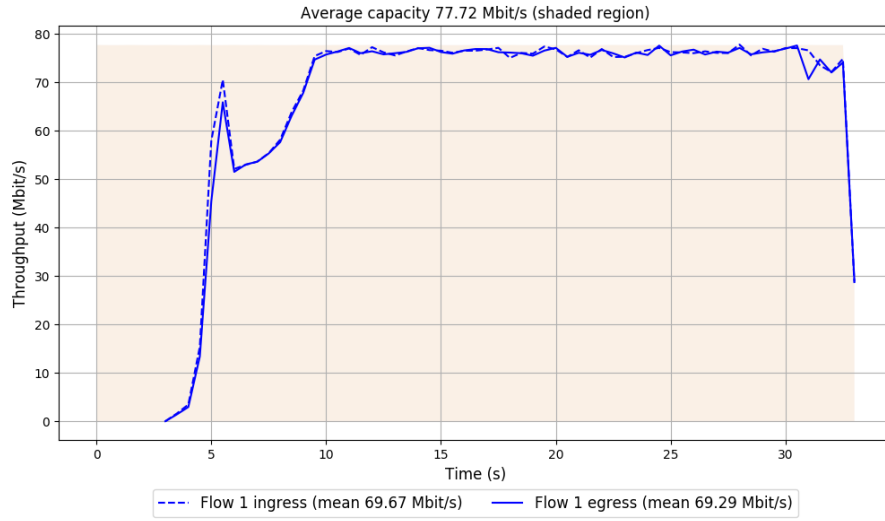
-- Flow 1:

Average throughput: 69.29 Mbit/s

95th percentile per-packet one-way delay: 56.949 ms

Loss rate: 0.72%

### Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-27 06:44:49

End at: 2018-02-27 06:45:19

# Below is generated by plot.py at 2018-02-27 08:35:03

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 69.47 Mbit/s (89.4% utilization)

95th percentile per-packet one-way delay: 57.919 ms

Loss rate: 0.62%

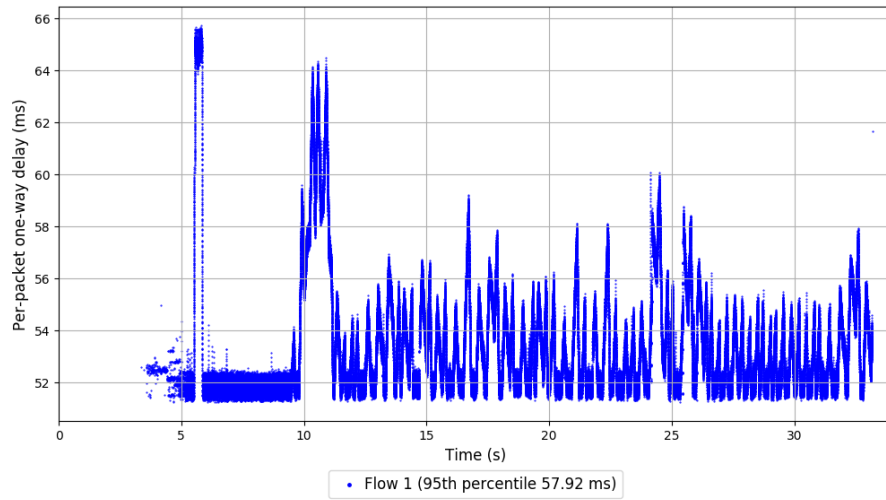
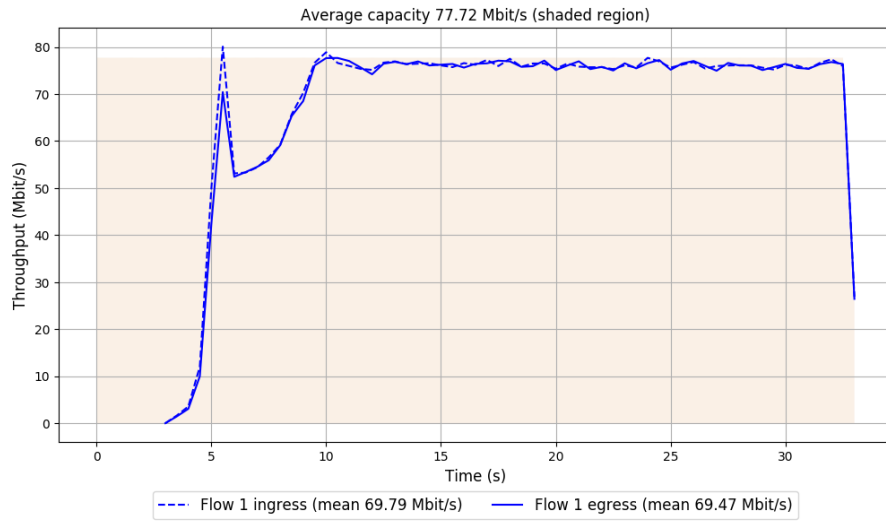
-- Flow 1:

Average throughput: 69.47 Mbit/s

95th percentile per-packet one-way delay: 57.919 ms

Loss rate: 0.62%

### Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

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

End at: 2018-02-27 06:56:49

# Below is generated by plot.py at 2018-02-27 08:35:04

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 69.04 Mbit/s (88.8% utilization)

95th percentile per-packet one-way delay: 57.391 ms

Loss rate: 0.75%

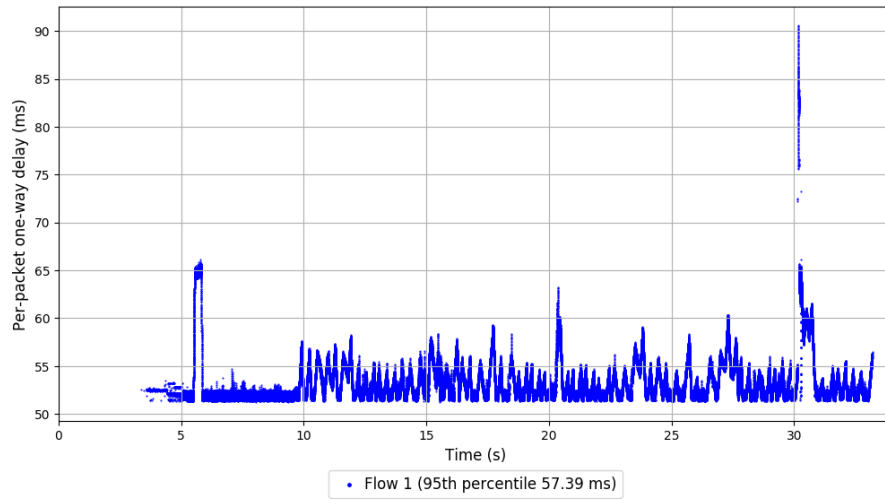
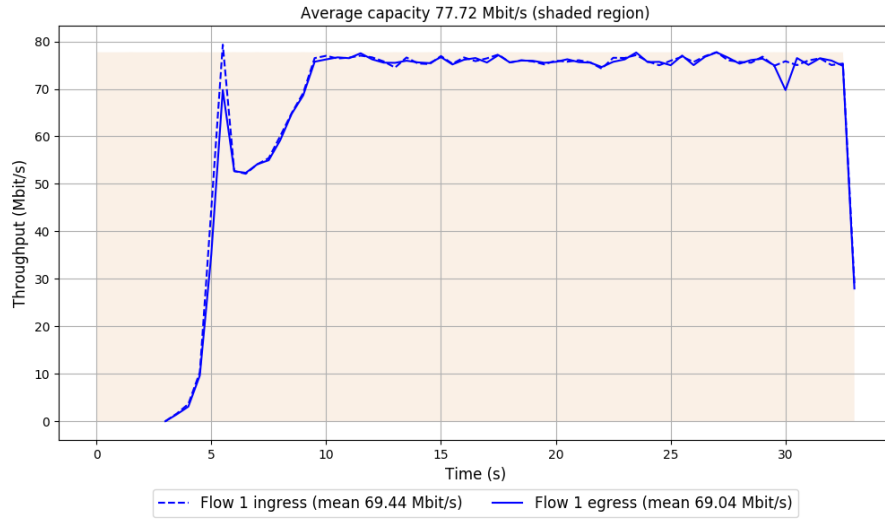
-- Flow 1:

Average throughput: 69.04 Mbit/s

95th percentile per-packet one-way delay: 57.391 ms

Loss rate: 0.75%

### Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

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

End at: 2018-02-27 07:08:21

# Below is generated by plot.py at 2018-02-27 08:35:21

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 69.33 Mbit/s (89.2% utilization)

95th percentile per-packet one-way delay: 61.125 ms

Loss rate: 0.84%

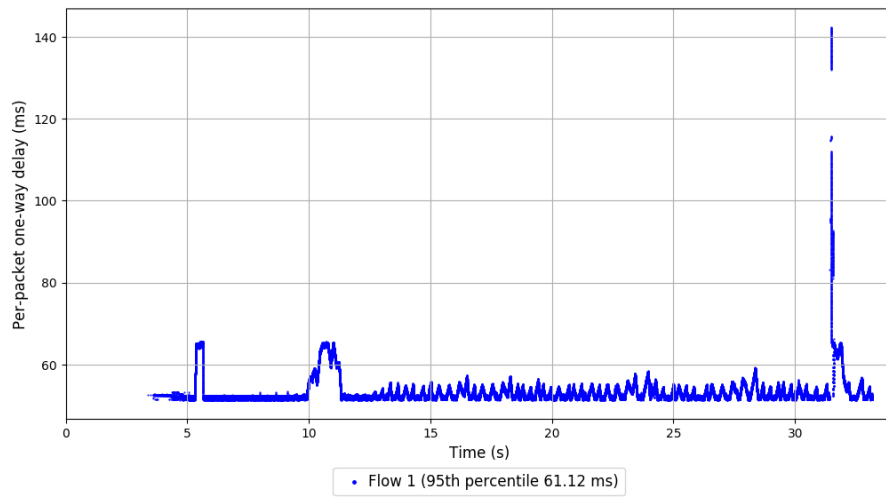
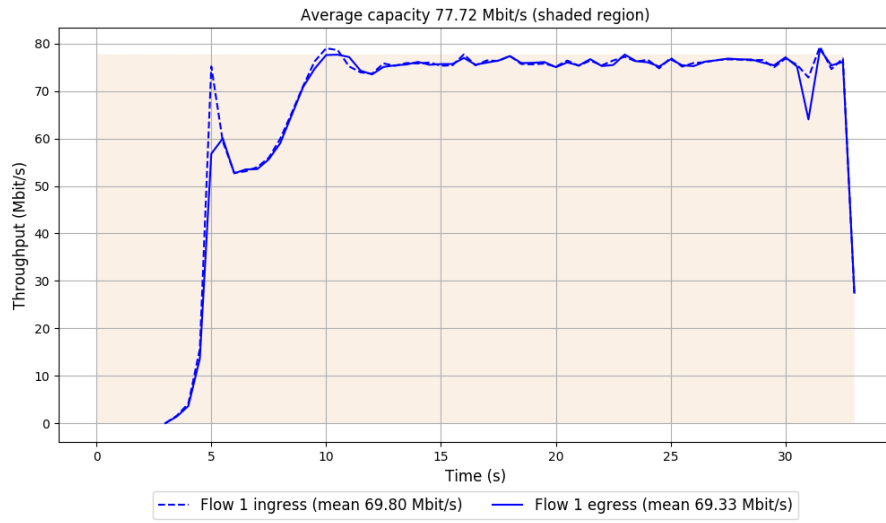
-- Flow 1:

Average throughput: 69.33 Mbit/s

95th percentile per-packet one-way delay: 61.125 ms

Loss rate: 0.84%

## Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-27 07:19:11

End at: 2018-02-27 07:19:41

# Below is generated by plot.py at 2018-02-27 08:35:33

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 69.17 Mbit/s (89.0% utilization)

95th percentile per-packet one-way delay: 57.757 ms

Loss rate: 0.88%

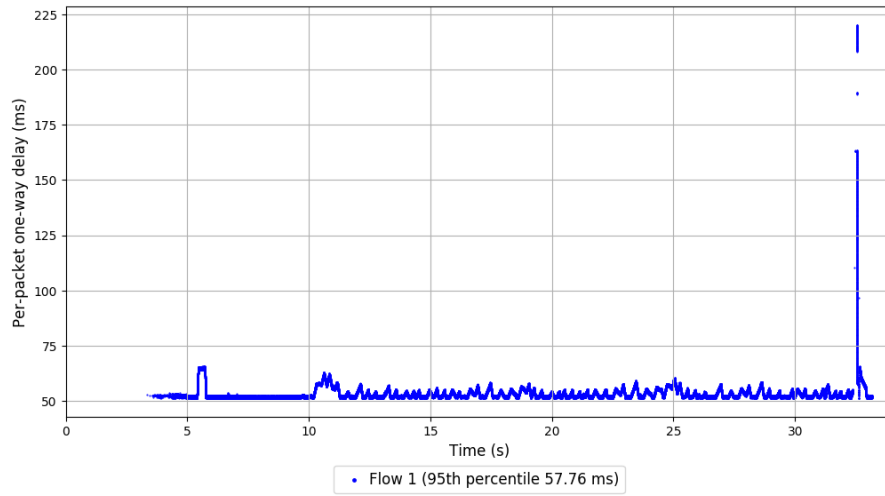
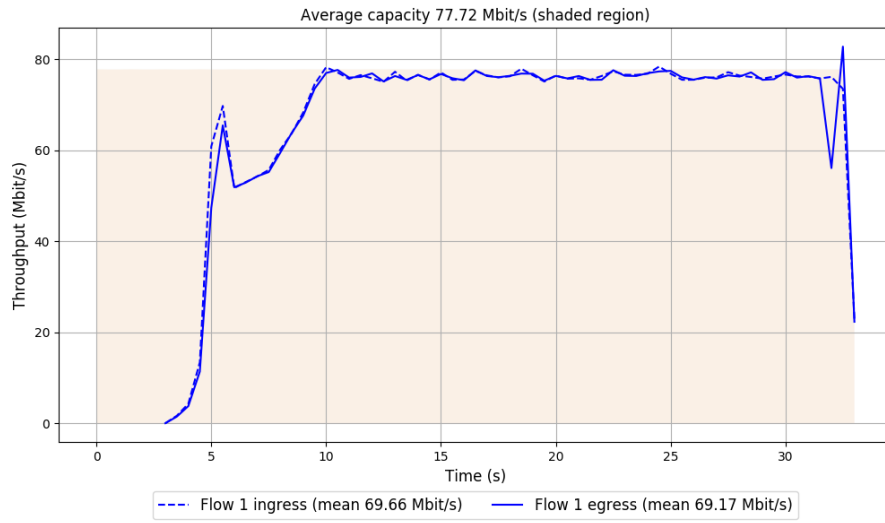
-- Flow 1:

Average throughput: 69.17 Mbit/s

95th percentile per-packet one-way delay: 57.757 ms

Loss rate: 0.88%

### Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-27 07:30:38

End at: 2018-02-27 07:31:08

# Below is generated by plot.py at 2018-02-27 08:35:38

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 69.34 Mbit/s (89.2% utilization)

95th percentile per-packet one-way delay: 58.281 ms

Loss rate: 0.85%

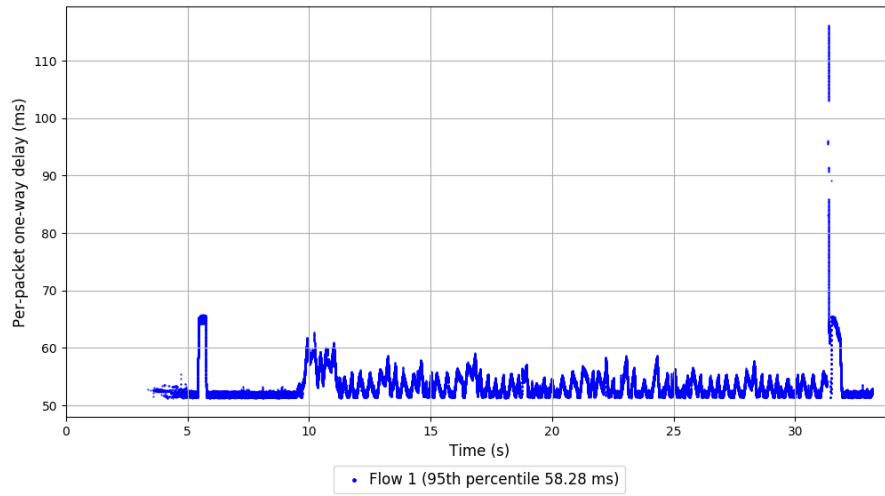
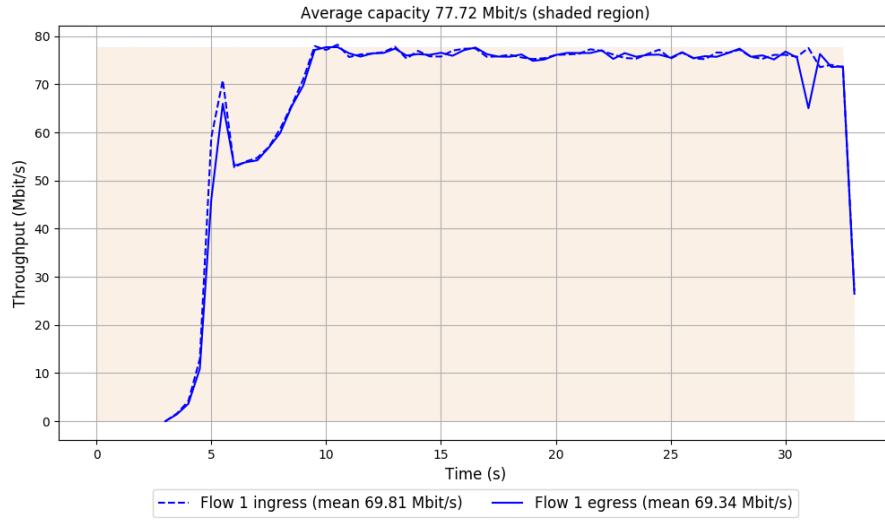
-- Flow 1:

Average throughput: 69.34 Mbit/s

95th percentile per-packet one-way delay: 58.281 ms

Loss rate: 0.85%

### Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-27 07:41:54

End at: 2018-02-27 07:42:24

# Below is generated by plot.py at 2018-02-27 08:35:39

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 69.10 Mbit/s (88.9% utilization)

95th percentile per-packet one-way delay: 58.714 ms

Loss rate: 0.86%

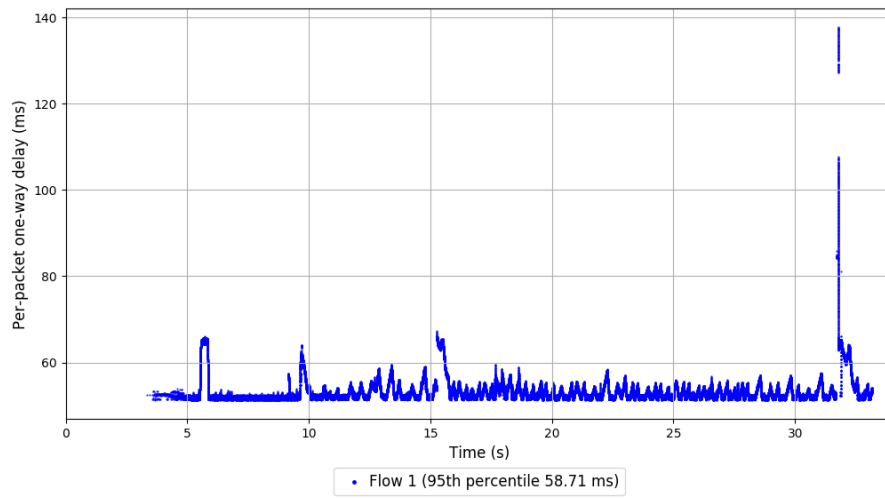
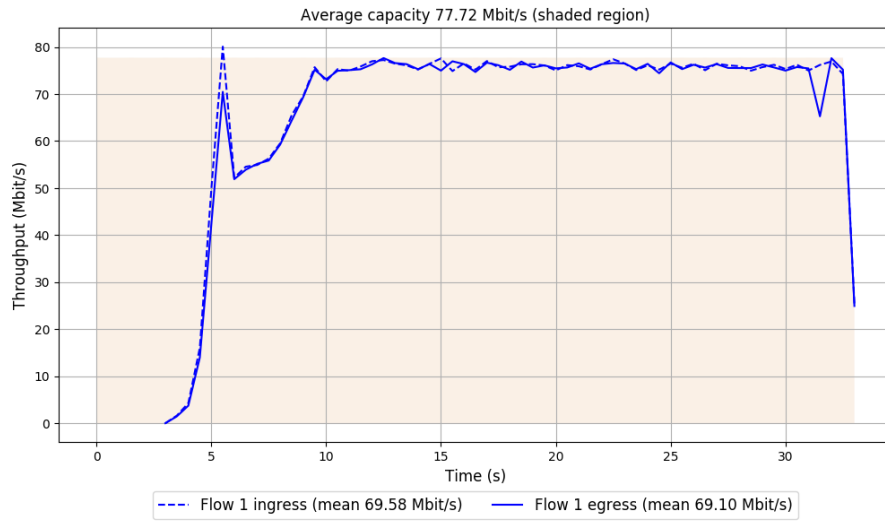
-- Flow 1:

Average throughput: 69.10 Mbit/s

95th percentile per-packet one-way delay: 58.714 ms

Loss rate: 0.86%

### Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-27 07:53:24

End at: 2018-02-27 07:53:54

# Below is generated by plot.py at 2018-02-27 08:35:39

# Datalink statistics

-- Total of 1 flow:

Average capacity: 77.72 Mbit/s

Average throughput: 69.30 Mbit/s (89.2% utilization)

95th percentile per-packet one-way delay: 58.402 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 69.30 Mbit/s

95th percentile per-packet one-way delay: 58.402 ms

Loss rate: 0.63%

Run 10: Report of Vivace-LTE — Data Link

