

Pantheon Report

Generated at 2020-04-16 09:48:36 (UTC).

Tested in mahimahi: mm-delay 30 mm-link 12mbps.trace 12mbps.trace
--uplink-queue=droptail --uplink-queue-args=bytes=9000

Repeated the test of 24 congestion control schemes 3 times.

Each test lasted for 30 seconds running 1 flow.

System info:

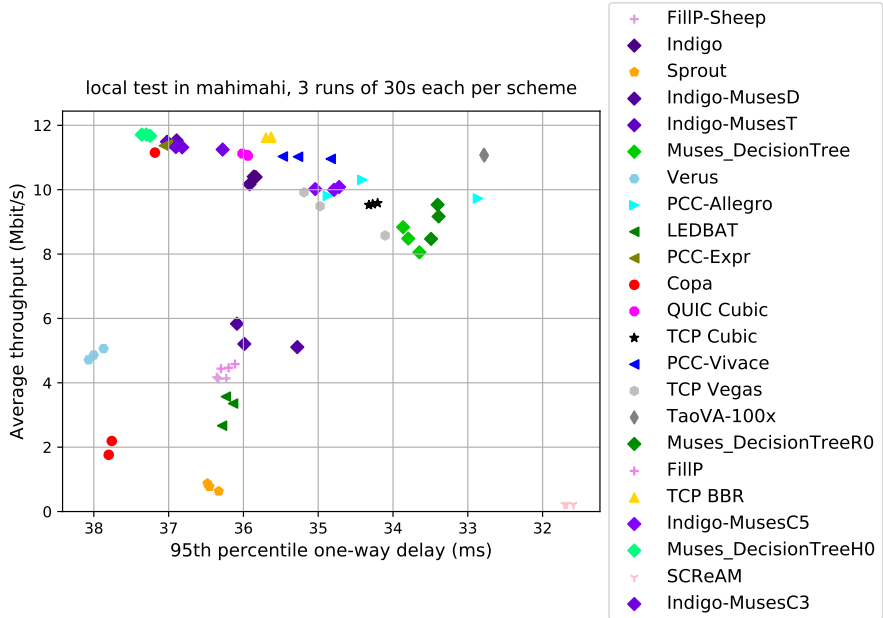
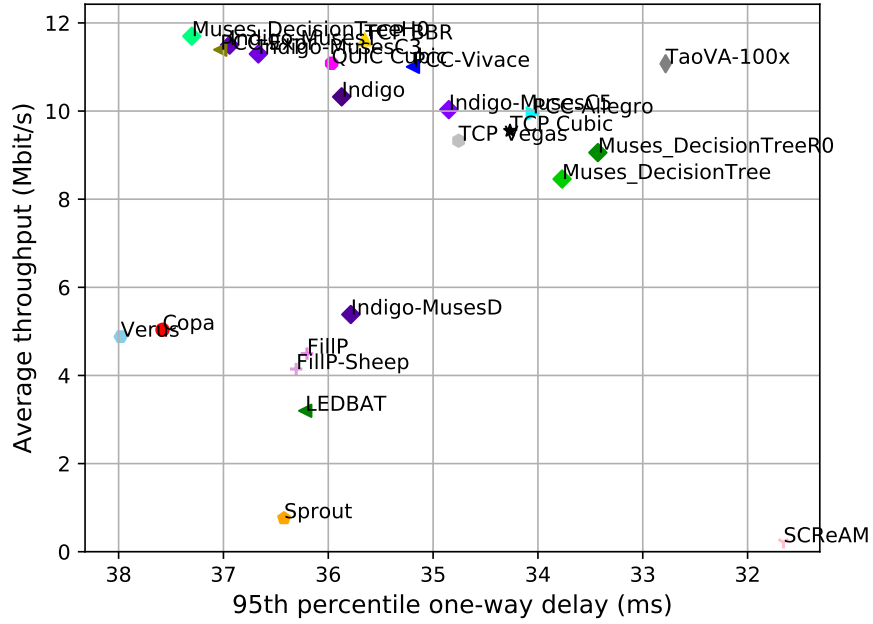
```
Linux 5.0.0-1031-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

local test in mahimahi, 3 runs of 30s each per scheme
 (mean of all runs by scheme)



scheme	# runs	mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate (%)
		flow 1	flow 1	flow 1
TCP BBR	3	11.63	35.65	4.04
Copa	3	5.03	37.58	37.11
TCP Cubic	3	9.55	34.27	0.19
FillP	3	4.50	36.20	13.95
FillP-Sheep	3	4.15	36.31	10.64
Indigo	3	10.32	35.87	59.29
Indigo-MusesC3	3	11.30	36.67	1.39
Indigo-MusesC5	3	10.03	34.85	0.89
Indigo-MusesD	3	5.39	35.79	6.33
Indigo-MusesT	3	11.50	36.94	1.18
LEDBAT	3	3.20	36.22	2.91
Muses_DecisionTree	3	8.46	33.77	1.15
Muses_DecisionTreeH0	3	11.70	37.30	4.16
Muses_DecisionTreeR0	3	9.06	33.43	1.02
PCC-Allegro	3	9.95	34.05	0.82
PCC-Expr	3	11.39	37.03	2.26
QUIC Cubic	3	11.08	35.97	0.47
SCReAM	3	0.21	31.66	0.09
Sprout	3	0.76	36.42	11.71
TaoVA-100x	3	11.07	32.78	0.82
TCP Vegas	3	9.33	34.76	0.21
Verus	3	4.88	37.98	95.29
PCC-Vivace	3	11.00	35.19	0.28
WebRTC media	0	N/A	N/A	N/A

Run 1: Statistics of TCP BBR

Start at: 2020-04-16 09:03:01

End at: 2020-04-16 09:03:31

Below is generated by plot.py at 2020-04-16 09:45:29

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.62 Mbit/s (96.8% utilization)

95th percentile per-packet one-way delay: 35.629 ms

Loss rate: 3.79%

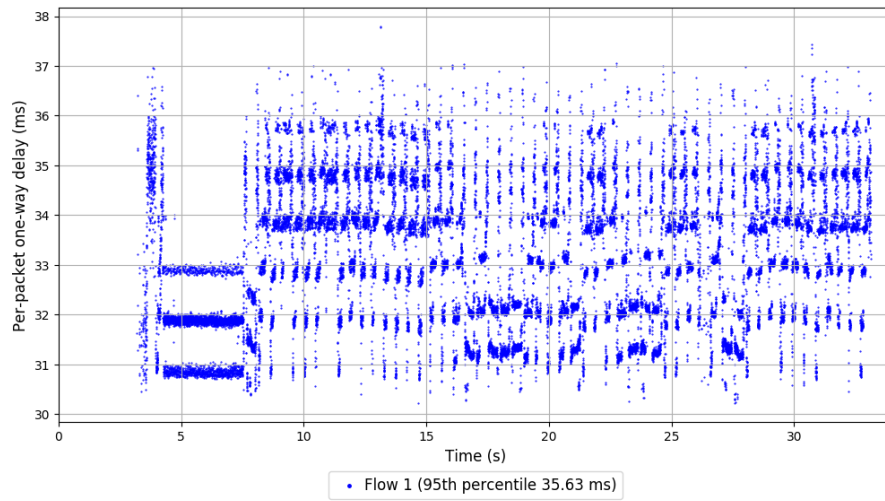
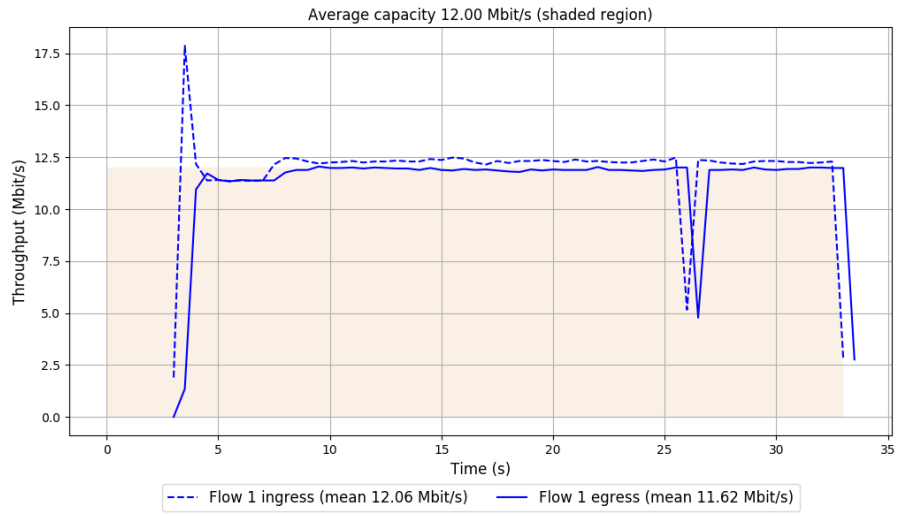
-- Flow 1:

Average throughput: 11.62 Mbit/s

95th percentile per-packet one-way delay: 35.629 ms

Loss rate: 3.79%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2020-04-16 09:17:10

End at: 2020-04-16 09:17:40

Below is generated by plot.py at 2020-04-16 09:45:29

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.65 Mbit/s (97.1% utilization)

95th percentile per-packet one-way delay: 35.630 ms

Loss rate: 4.42%

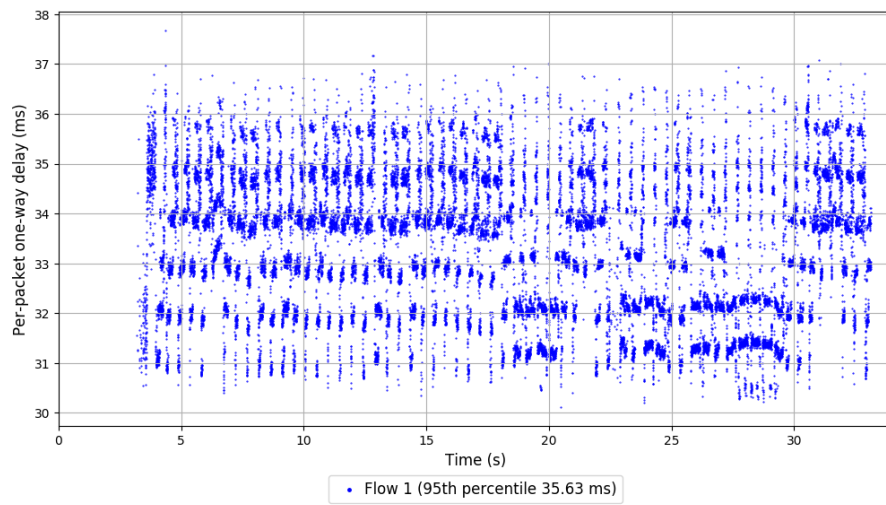
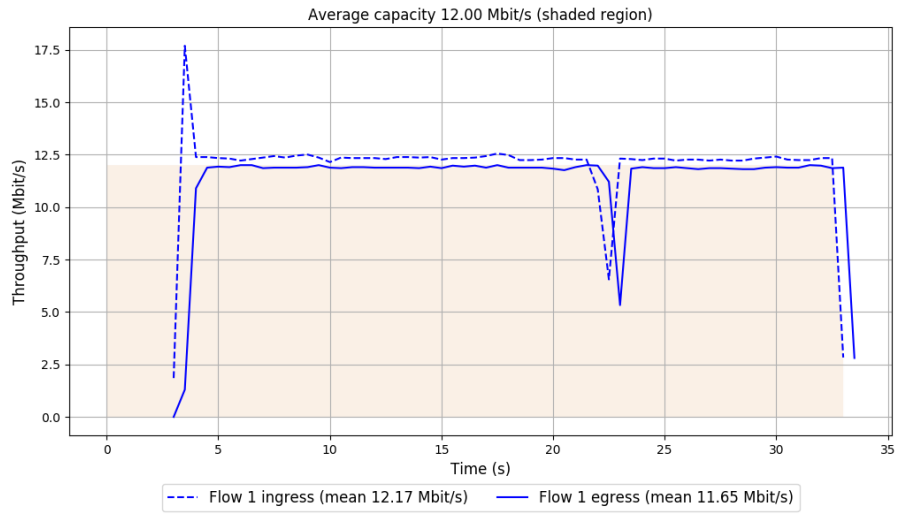
-- Flow 1:

Average throughput: 11.65 Mbit/s

95th percentile per-packet one-way delay: 35.630 ms

Loss rate: 4.42%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2020-04-16 09:31:17

End at: 2020-04-16 09:31:47

Below is generated by plot.py at 2020-04-16 09:45:29

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.62 Mbit/s (96.8% utilization)

95th percentile per-packet one-way delay: 35.699 ms

Loss rate: 3.92%

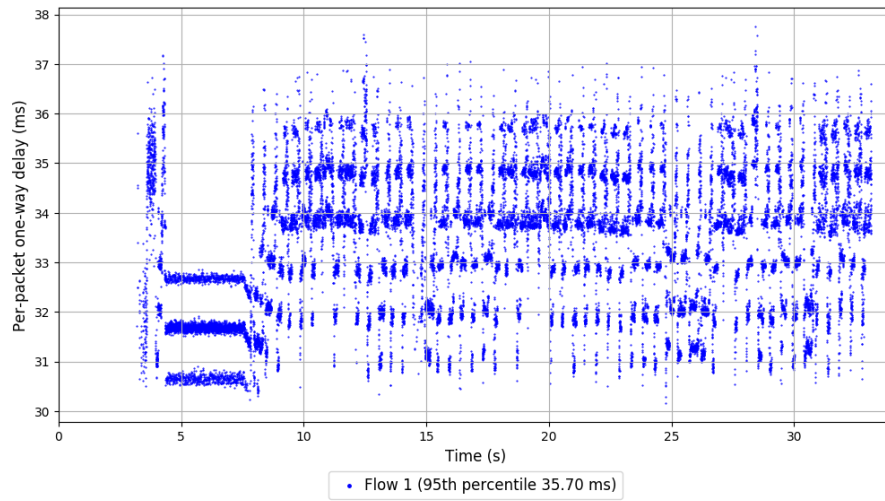
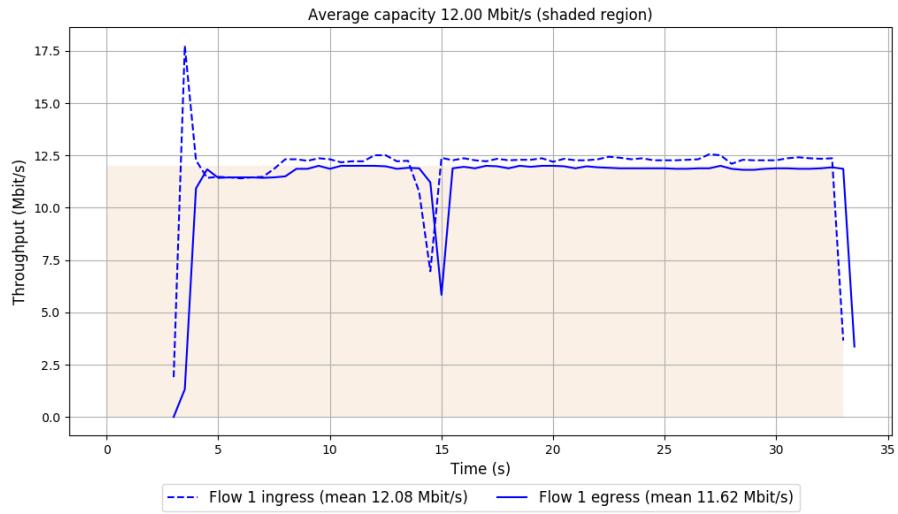
-- Flow 1:

Average throughput: 11.62 Mbit/s

95th percentile per-packet one-way delay: 35.699 ms

Loss rate: 3.92%

Run 3: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2020-04-16 09:09:29

End at: 2020-04-16 09:09:59

Below is generated by plot.py at 2020-04-16 09:45:29

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 2.19 Mbit/s (18.3% utilization)

95th percentile per-packet one-way delay: 37.760 ms

Loss rate: 45.89%

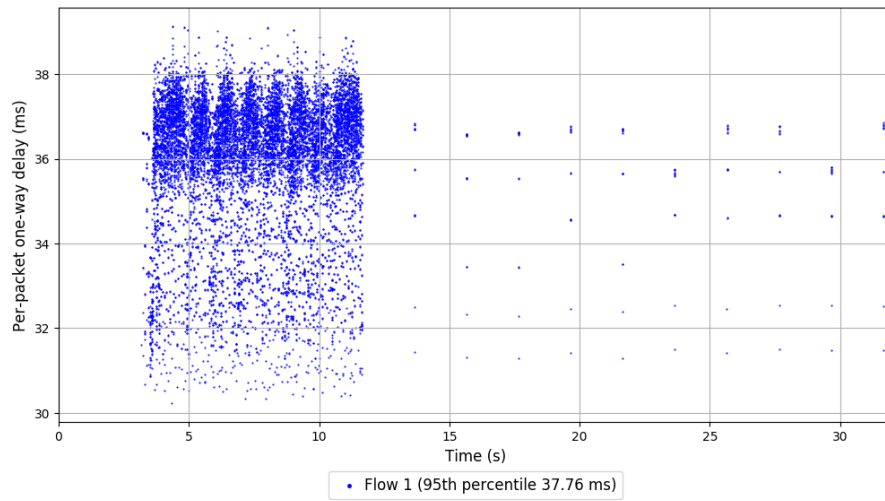
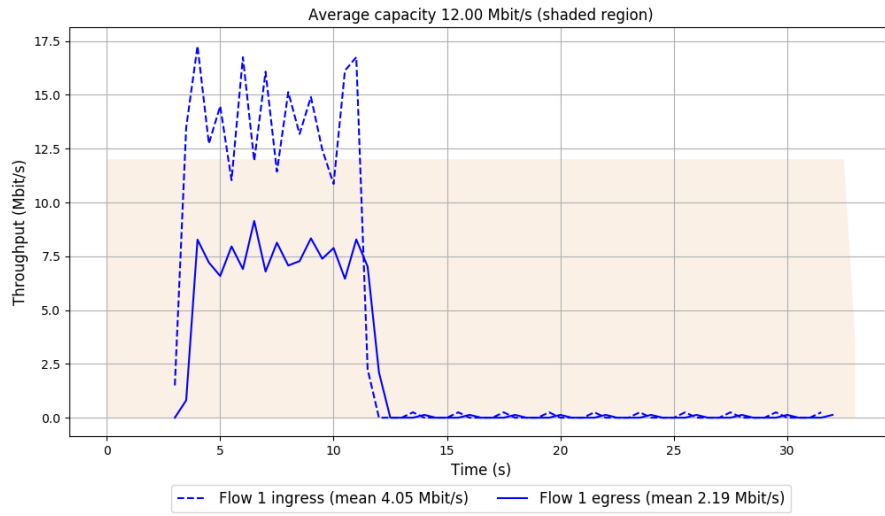
-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 37.760 ms

Loss rate: 45.89%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2020-04-16 09:23:37

End at: 2020-04-16 09:24:07

Below is generated by plot.py at 2020-04-16 09:45:47

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.15 Mbit/s (92.9% utilization)

95th percentile per-packet one-way delay: 37.183 ms

Loss rate: 13.79%

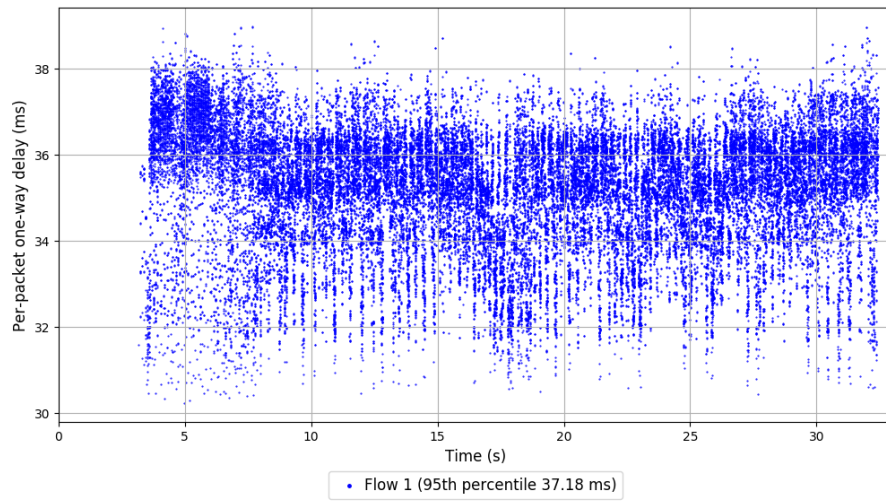
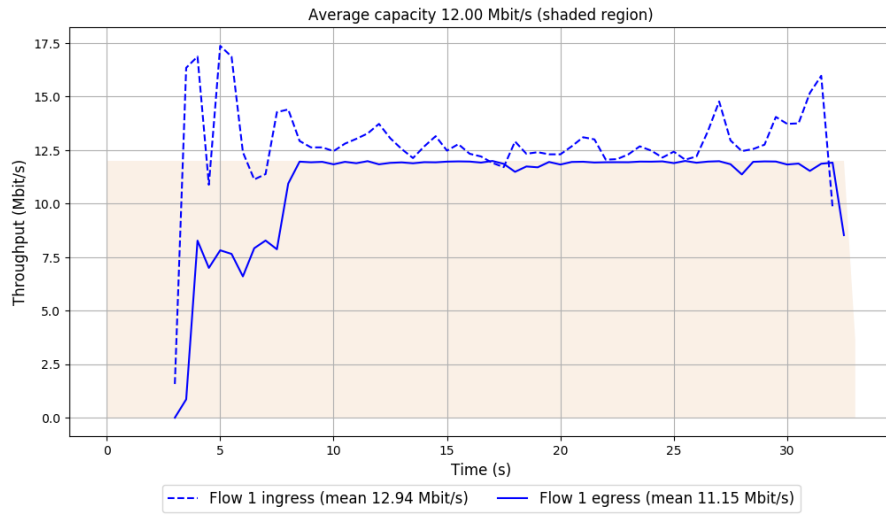
-- Flow 1:

Average throughput: 11.15 Mbit/s

95th percentile per-packet one-way delay: 37.183 ms

Loss rate: 13.79%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2020-04-16 09:37:44

End at: 2020-04-16 09:38:14

Below is generated by plot.py at 2020-04-16 09:45:47

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 1.76 Mbit/s (14.7% utilization)

95th percentile per-packet one-way delay: 37.801 ms

Loss rate: 51.65%

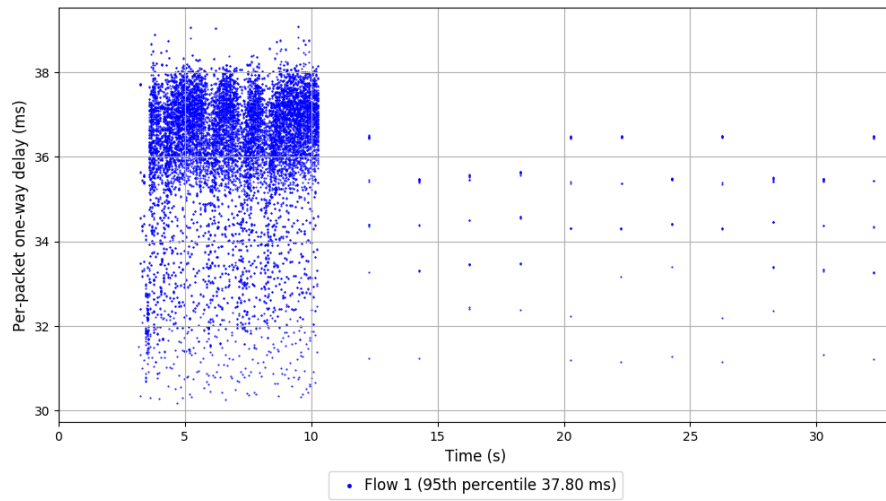
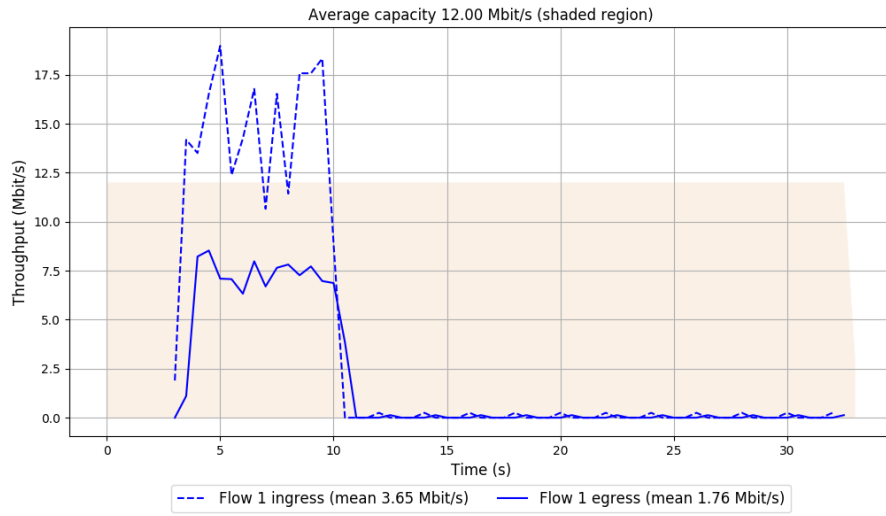
-- Flow 1:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 37.801 ms

Loss rate: 51.65%

Run 3: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2020-04-16 09:14:14

End at: 2020-04-16 09:14:44

Below is generated by plot.py at 2020-04-16 09:45:47

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 9.58 Mbit/s (79.9% utilization)

95th percentile per-packet one-way delay: 34.206 ms

Loss rate: 0.18%

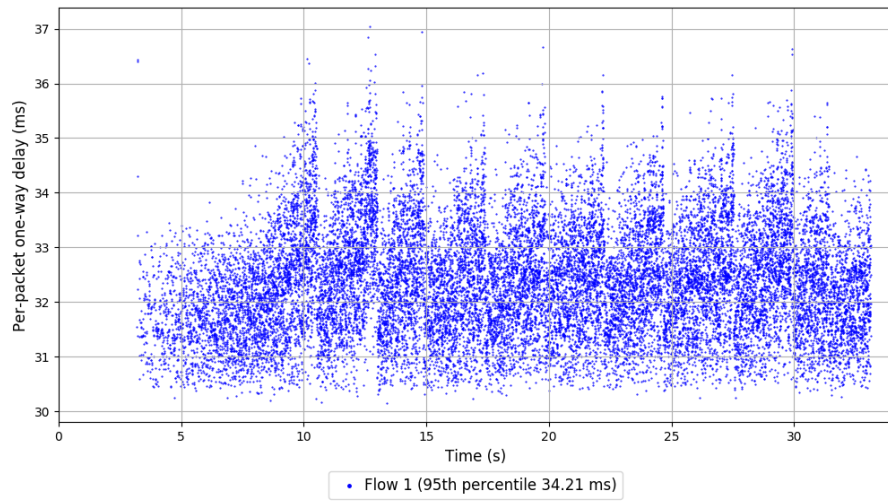
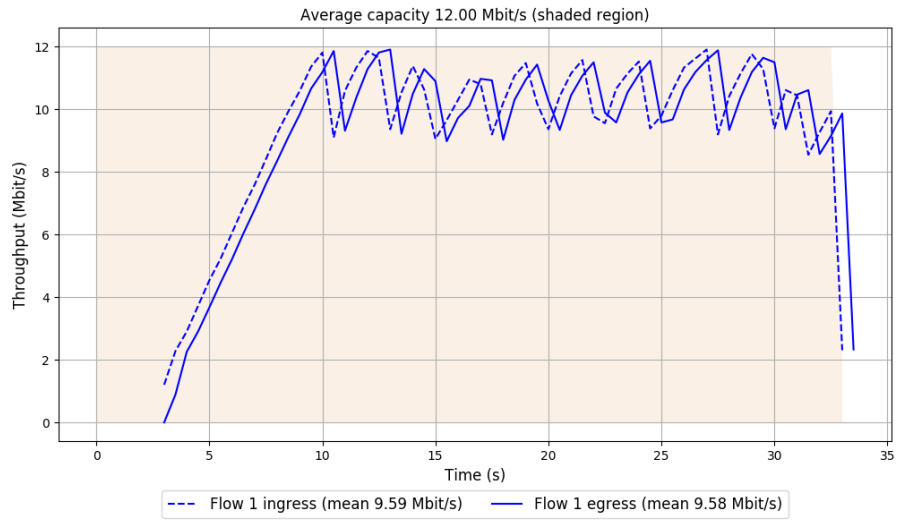
-- Flow 1:

Average throughput: 9.58 Mbit/s

95th percentile per-packet one-way delay: 34.206 ms

Loss rate: 0.18%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2020-04-16 09:28:21

End at: 2020-04-16 09:28:51

Below is generated by plot.py at 2020-04-16 09:45:47

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 9.55 Mbit/s (79.6% utilization)

95th percentile per-packet one-way delay: 34.272 ms

Loss rate: 0.19%

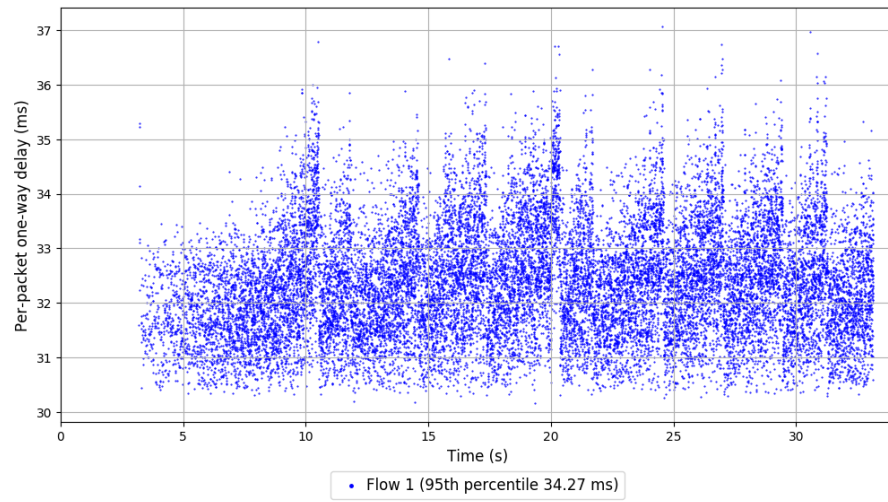
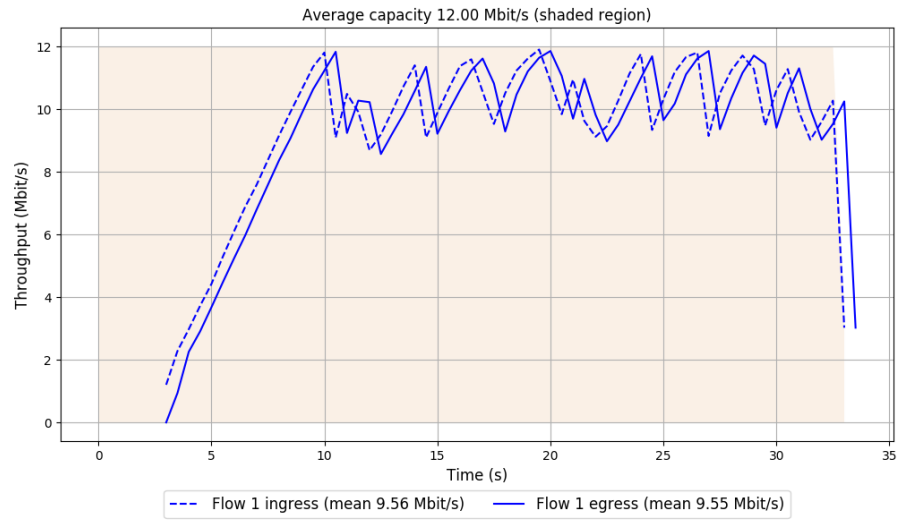
-- Flow 1:

Average throughput: 9.55 Mbit/s

95th percentile per-packet one-way delay: 34.272 ms

Loss rate: 0.19%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2020-04-16 09:42:26

End at: 2020-04-16 09:42:56

Below is generated by plot.py at 2020-04-16 09:45:47

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 9.53 Mbit/s (79.4% utilization)

95th percentile per-packet one-way delay: 34.322 ms

Loss rate: 0.20%

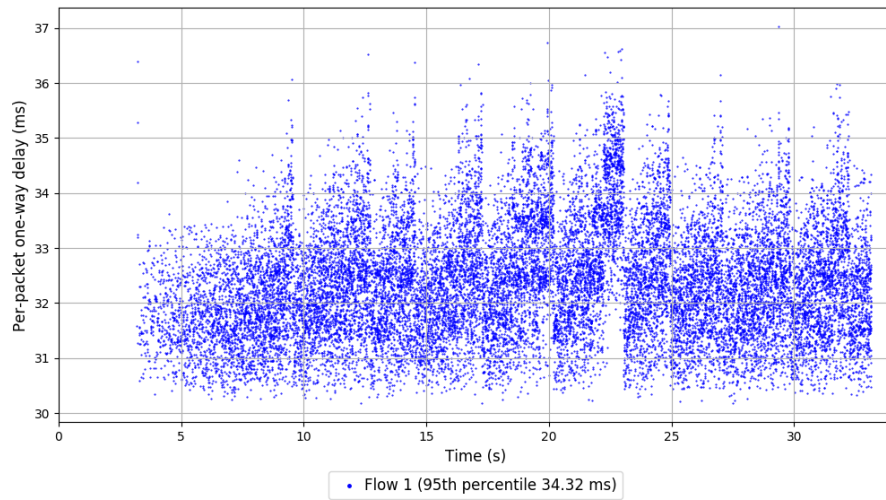
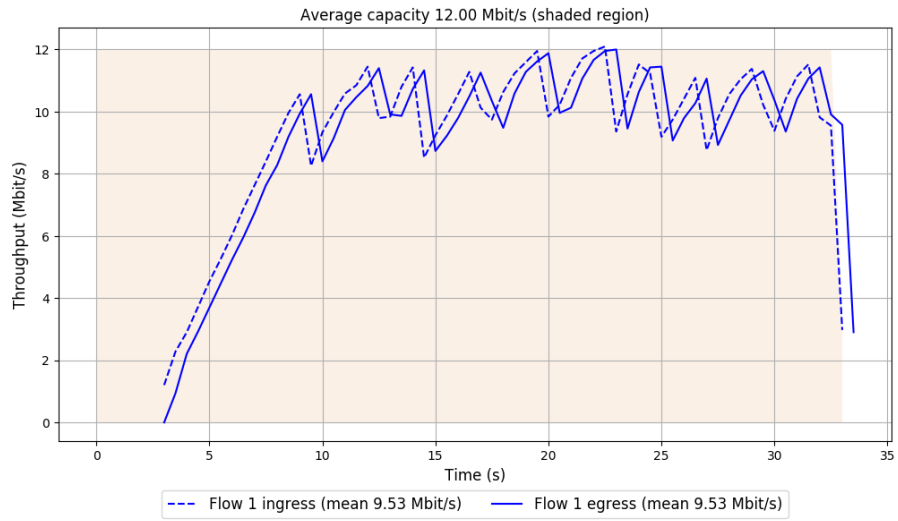
-- Flow 1:

Average throughput: 9.53 Mbit/s

95th percentile per-packet one-way delay: 34.322 ms

Loss rate: 0.20%

Run 3: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2020-04-16 09:11:14

End at: 2020-04-16 09:11:44

Below is generated by plot.py at 2020-04-16 09:45:47

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 4.58 Mbit/s (38.2% utilization)

95th percentile per-packet one-way delay: 36.112 ms

Loss rate: 14.96%

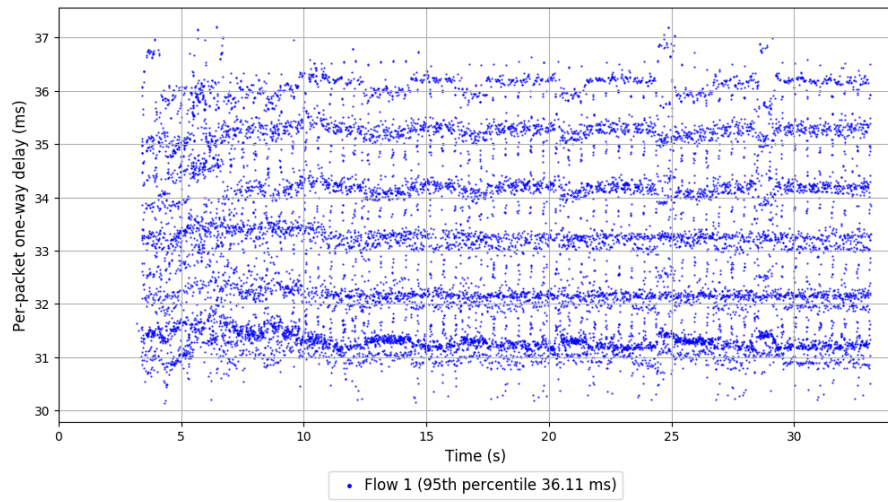
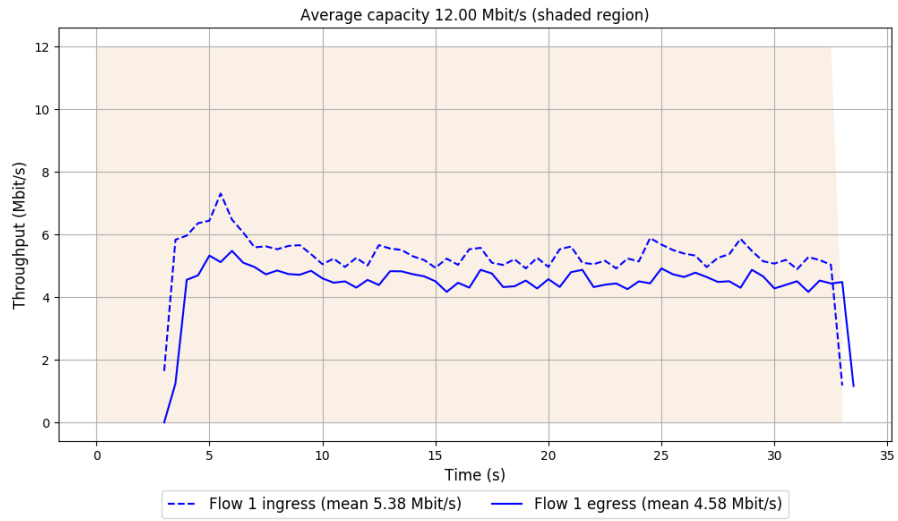
-- Flow 1:

Average throughput: 4.58 Mbit/s

95th percentile per-packet one-way delay: 36.112 ms

Loss rate: 14.96%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2020-04-16 09:25:23

End at: 2020-04-16 09:25:53

Below is generated by plot.py at 2020-04-16 09:45:47

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 4.44 Mbit/s (37.0% utilization)

95th percentile per-packet one-way delay: 36.300 ms

Loss rate: 13.00%

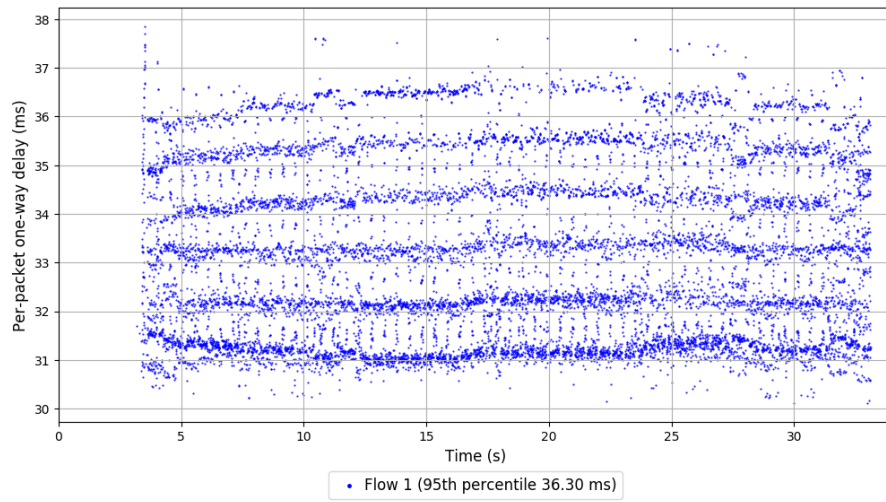
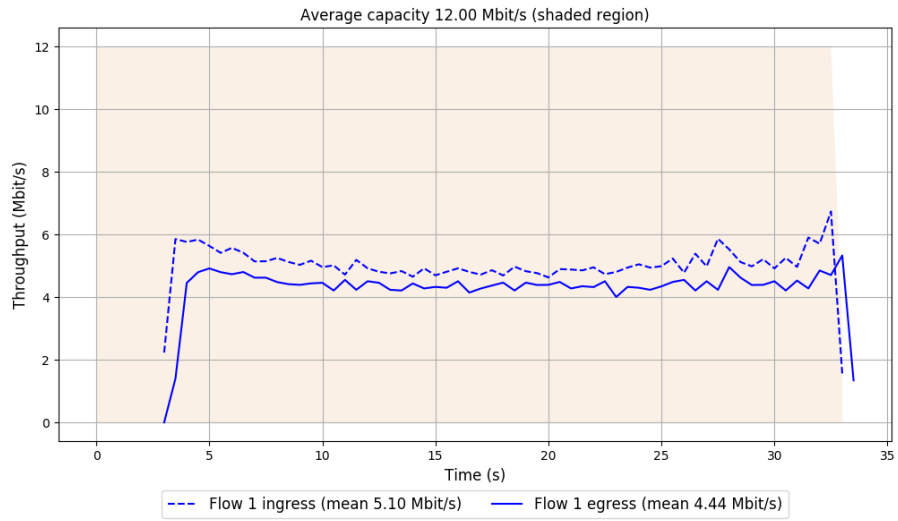
-- Flow 1:

Average throughput: 4.44 Mbit/s

95th percentile per-packet one-way delay: 36.300 ms

Loss rate: 13.00%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2020-04-16 09:39:30

End at: 2020-04-16 09:40:00

Below is generated by plot.py at 2020-04-16 09:45:47

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 4.47 Mbit/s (37.2% utilization)

95th percentile per-packet one-way delay: 36.198 ms

Loss rate: 13.90%

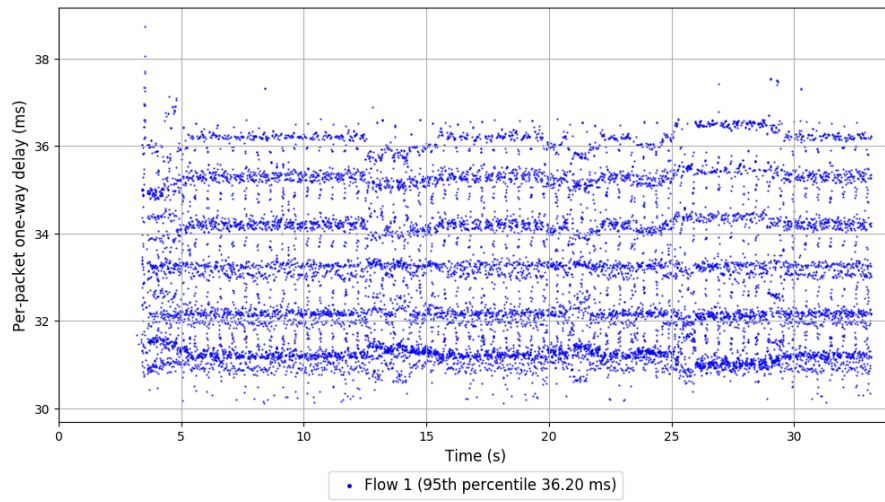
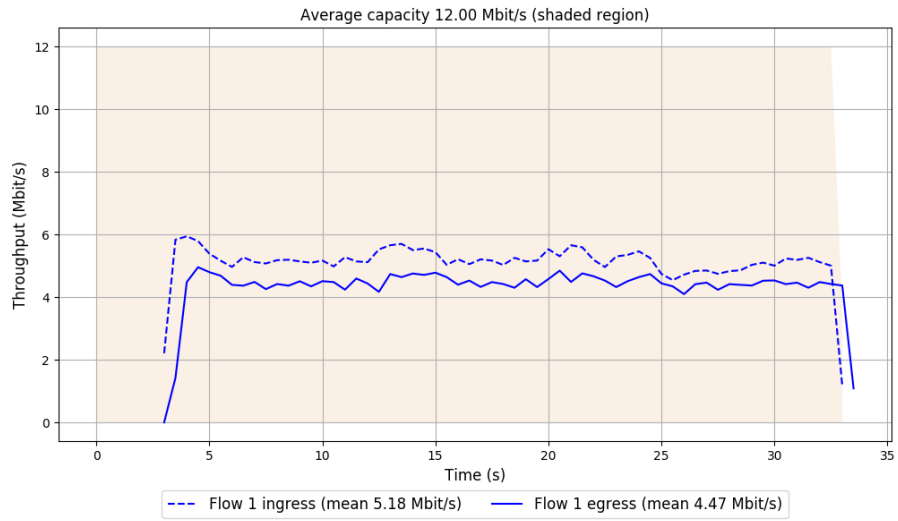
-- Flow 1:

Average throughput: 4.47 Mbit/s

95th percentile per-packet one-way delay: 36.198 ms

Loss rate: 13.90%

Run 3: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2020-04-16 09:14:49

End at: 2020-04-16 09:15:19

Below is generated by plot.py at 2020-04-16 09:45:47

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 4.14 Mbit/s (34.5% utilization)

95th percentile per-packet one-way delay: 36.229 ms

Loss rate: 10.40%

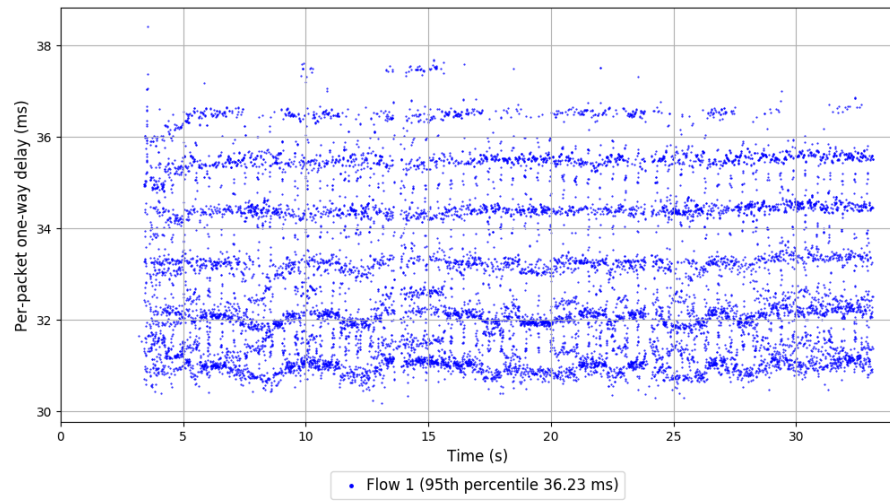
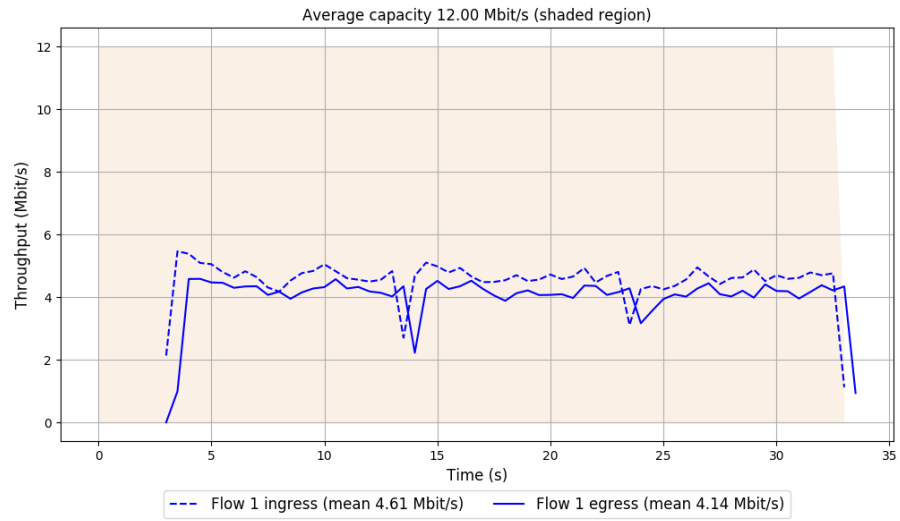
-- Flow 1:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 36.229 ms

Loss rate: 10.40%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2020-04-16 09:28:57

End at: 2020-04-16 09:29:27

Below is generated by plot.py at 2020-04-16 09:45:48

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 4.17 Mbit/s (34.8% utilization)

95th percentile per-packet one-way delay: 36.356 ms

Loss rate: 10.73%

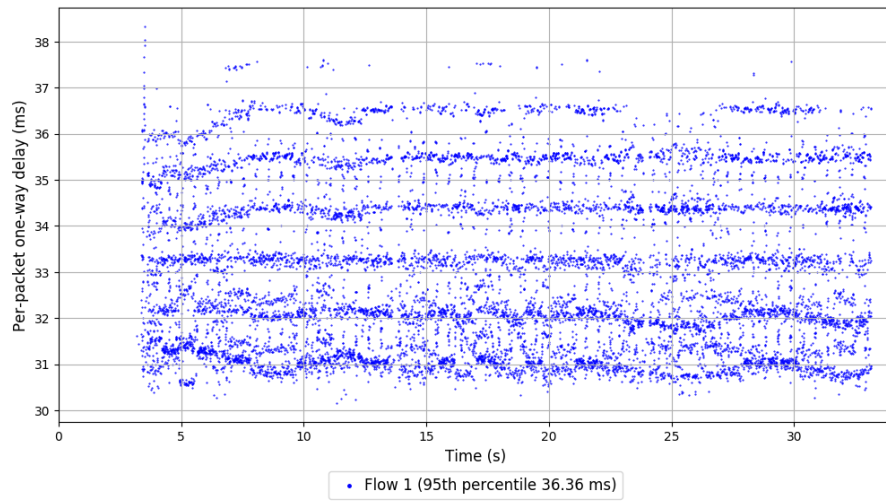
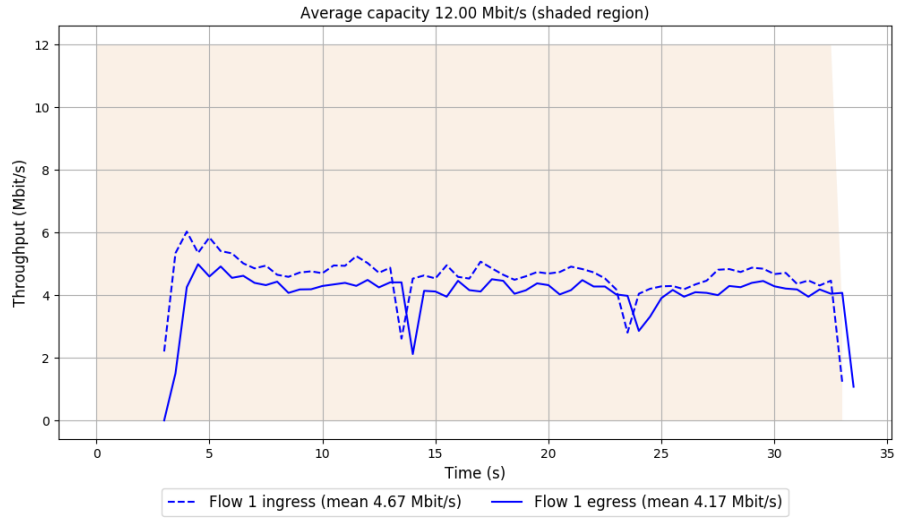
-- Flow 1:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 36.356 ms

Loss rate: 10.73%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2020-04-16 09:43:01

End at: 2020-04-16 09:43:31

Below is generated by plot.py at 2020-04-16 09:45:48

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 4.13 Mbit/s (34.4% utilization)

95th percentile per-packet one-way delay: 36.333 ms

Loss rate: 10.79%

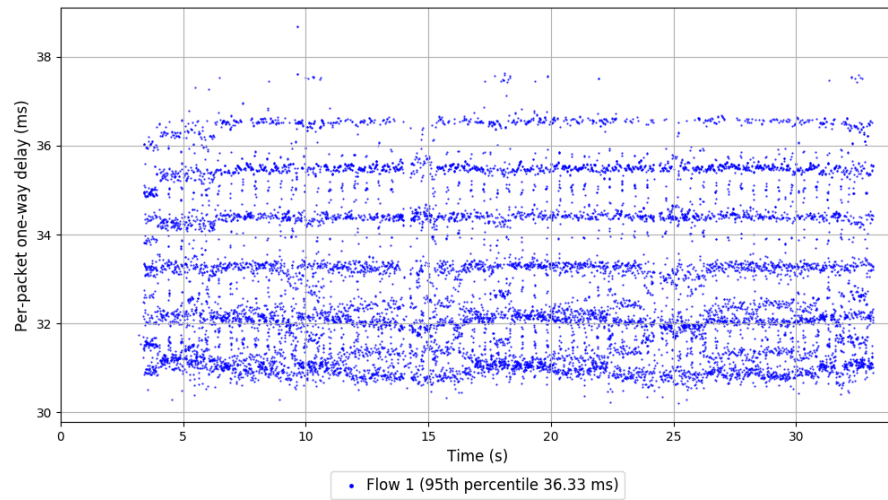
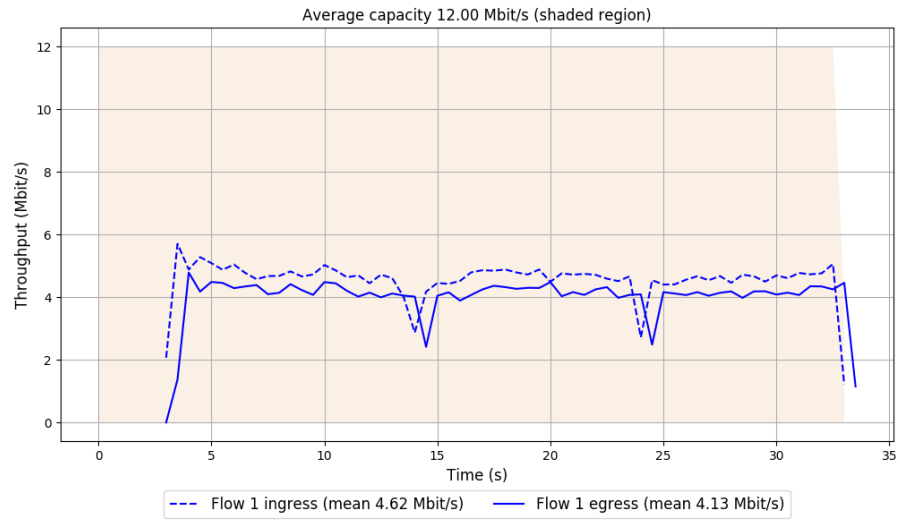
-- Flow 1:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 36.333 ms

Loss rate: 10.79%

Run 3: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2020-04-16 09:12:24

End at: 2020-04-16 09:12:54

Below is generated by plot.py at 2020-04-16 09:46:07

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.41 Mbit/s (86.7% utilization)

95th percentile per-packet one-way delay: 35.862 ms

Loss rate: 59.27%

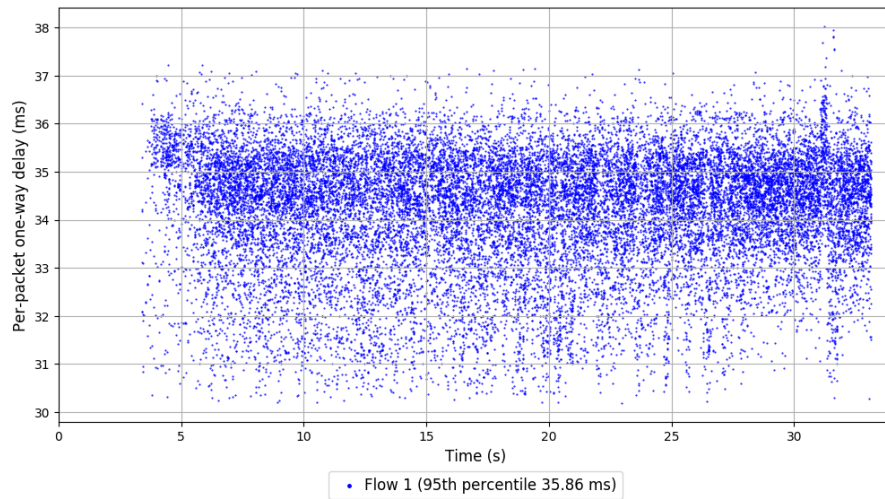
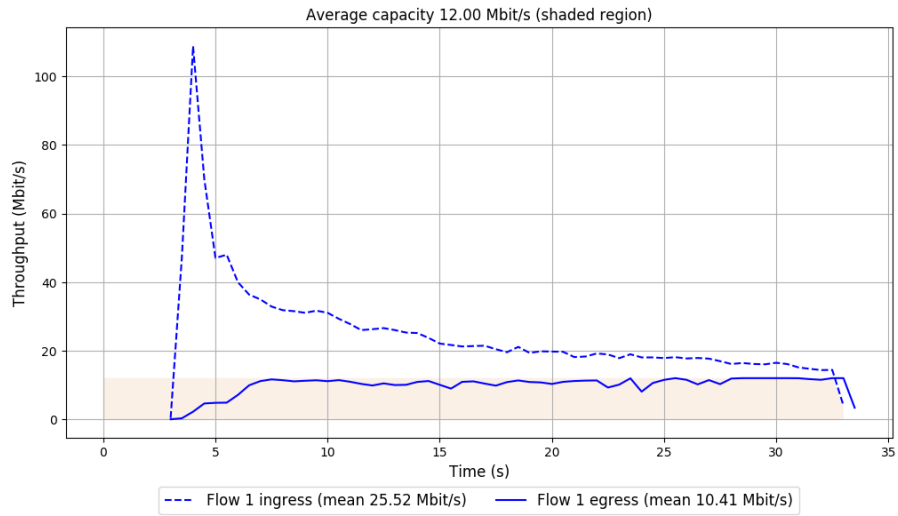
-- Flow 1:

Average throughput: 10.41 Mbit/s

95th percentile per-packet one-way delay: 35.862 ms

Loss rate: 59.27%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2020-04-16 09:26:33

End at: 2020-04-16 09:27:03

Below is generated by plot.py at 2020-04-16 09:46:12

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.17 Mbit/s (84.7% utilization)

95th percentile per-packet one-way delay: 35.918 ms

Loss rate: 60.39%

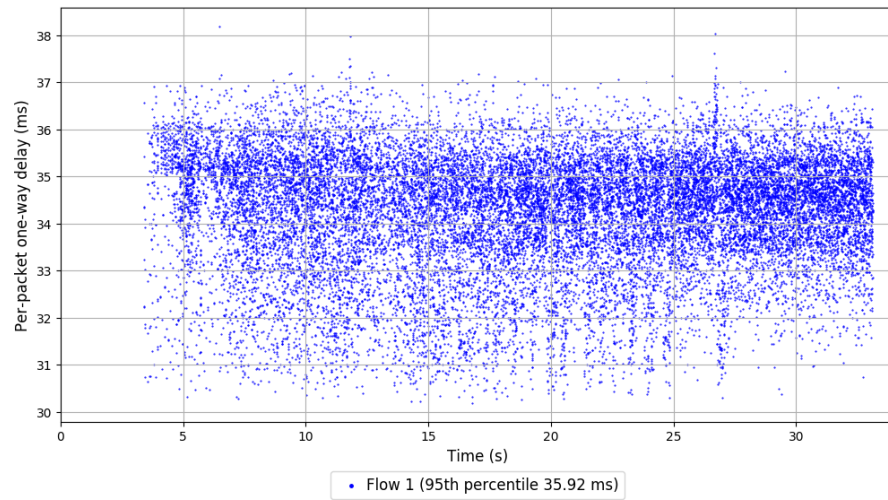
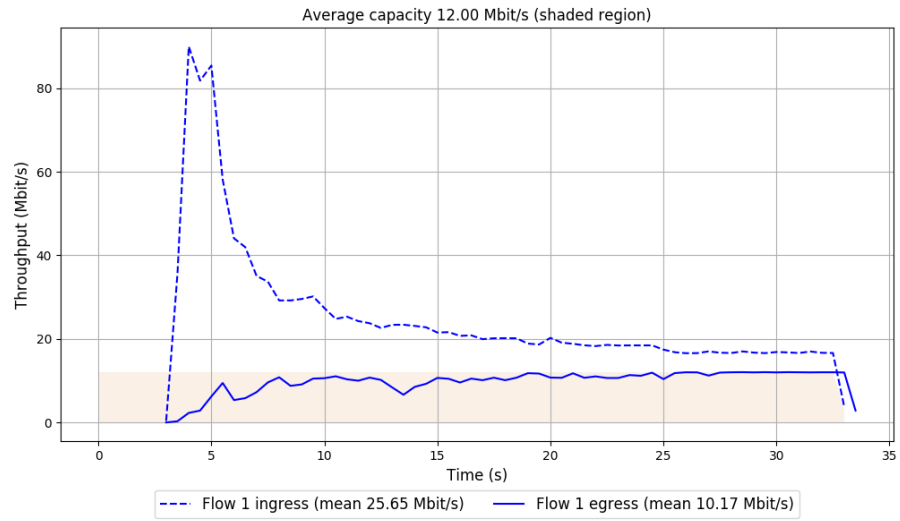
-- Flow 1:

Average throughput: 10.17 Mbit/s

95th percentile per-packet one-way delay: 35.918 ms

Loss rate: 60.39%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2020-04-16 09:40:40

End at: 2020-04-16 09:41:10

Below is generated by plot.py at 2020-04-16 09:46:12

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.39 Mbit/s (86.6% utilization)

95th percentile per-packet one-way delay: 35.837 ms

Loss rate: 58.21%

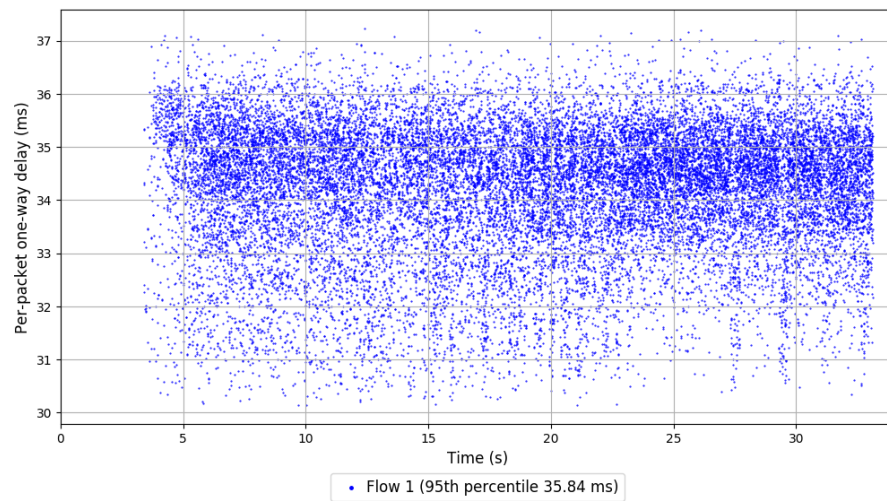
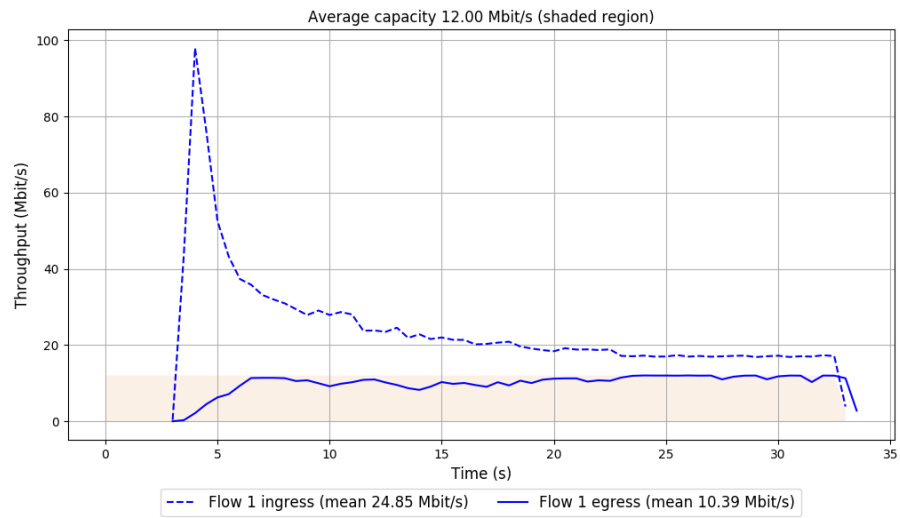
-- Flow 1:

Average throughput: 10.39 Mbit/s

95th percentile per-packet one-way delay: 35.837 ms

Loss rate: 58.21%

Run 3: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2020-04-16 09:02:26

End at: 2020-04-16 09:02:56

Below is generated by plot.py at 2020-04-16 09:46:12

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.33 Mbit/s (94.4% utilization)

95th percentile per-packet one-way delay: 36.904 ms

Loss rate: 1.85%

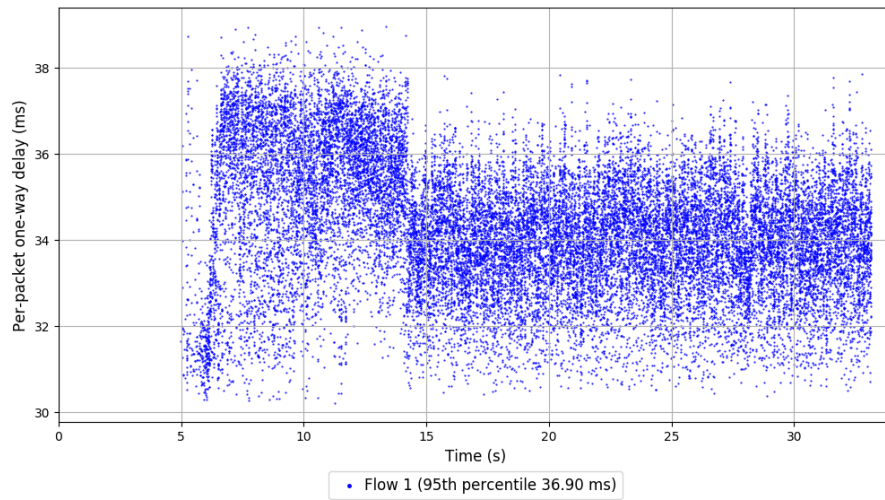
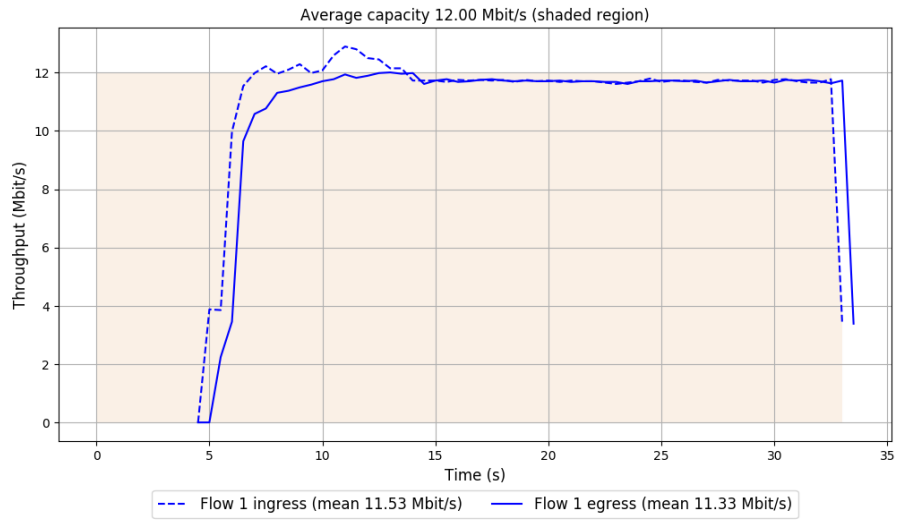
-- Flow 1:

Average throughput: 11.33 Mbit/s

95th percentile per-packet one-way delay: 36.904 ms

Loss rate: 1.85%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2020-04-16 09:16:34

End at: 2020-04-16 09:17:04

Below is generated by plot.py at 2020-04-16 09:46:12

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.25 Mbit/s (93.7% utilization)

95th percentile per-packet one-way delay: 36.278 ms

Loss rate: 0.83%

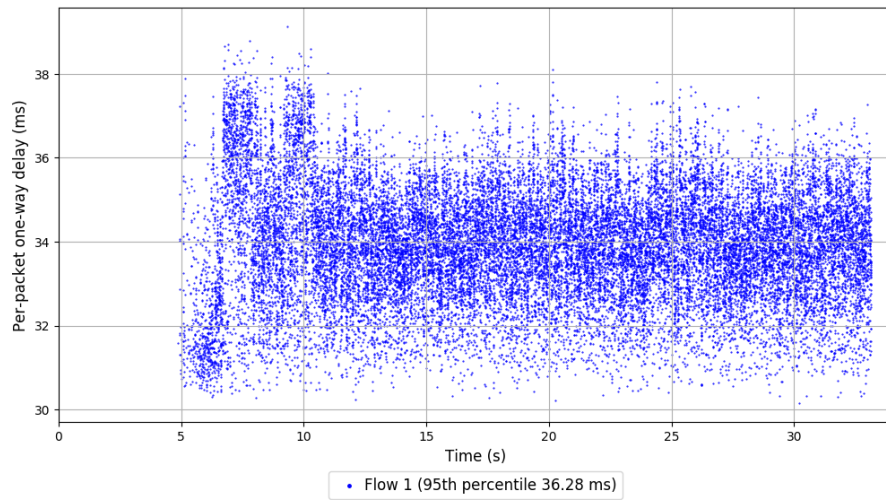
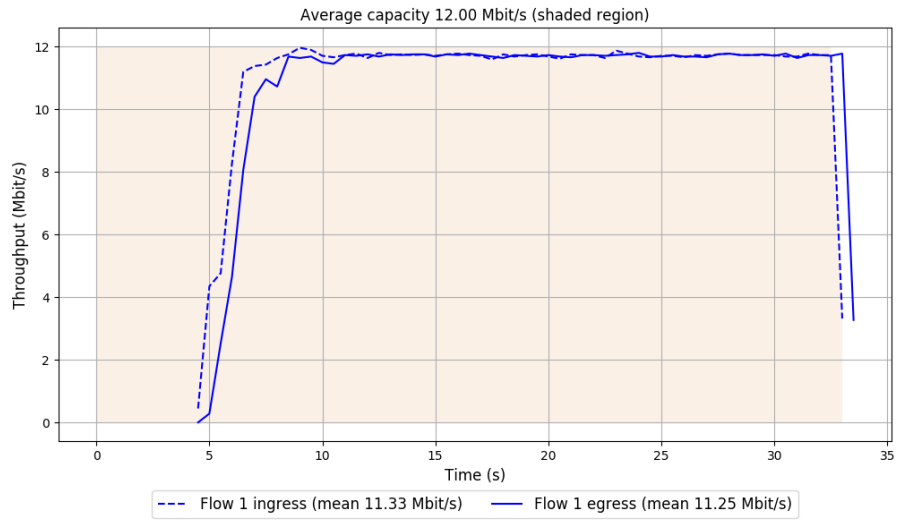
-- Flow 1:

Average throughput: 11.25 Mbit/s

95th percentile per-packet one-way delay: 36.278 ms

Loss rate: 0.83%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2020-04-16 09:30:42

End at: 2020-04-16 09:31:12

Below is generated by plot.py at 2020-04-16 09:46:12

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.32 Mbit/s (94.3% utilization)

95th percentile per-packet one-way delay: 36.819 ms

Loss rate: 1.50%

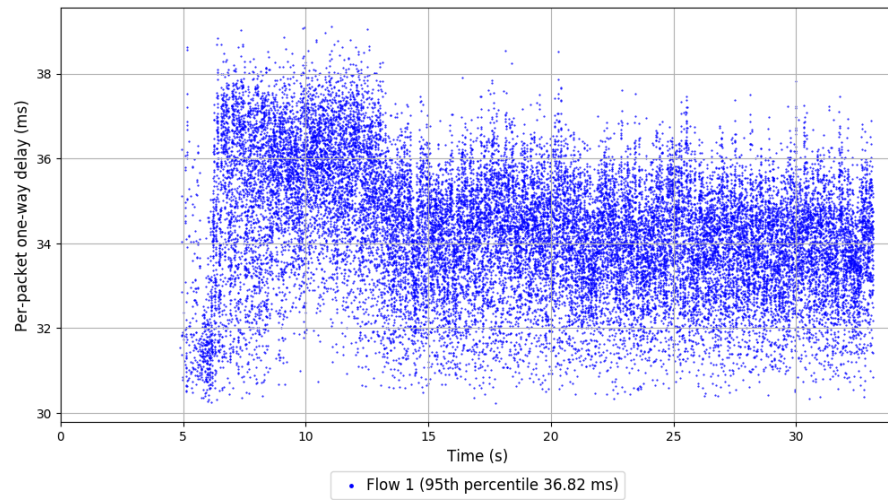
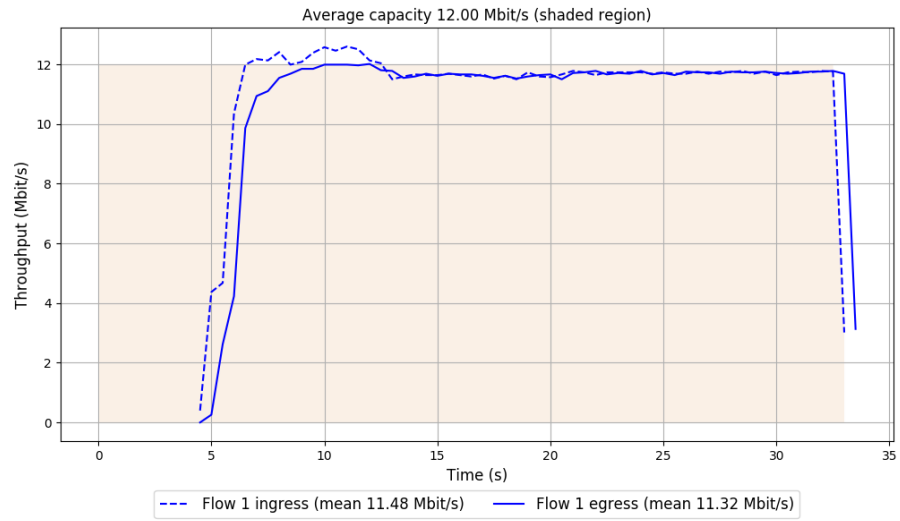
-- Flow 1:

Average throughput: 11.32 Mbit/s

95th percentile per-packet one-way delay: 36.819 ms

Loss rate: 1.50%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2020-04-16 09:15:24

End at: 2020-04-16 09:15:54

Below is generated by plot.py at 2020-04-16 09:46:12

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 9.99 Mbit/s (83.3% utilization)

95th percentile per-packet one-way delay: 34.789 ms

Loss rate: 1.00%

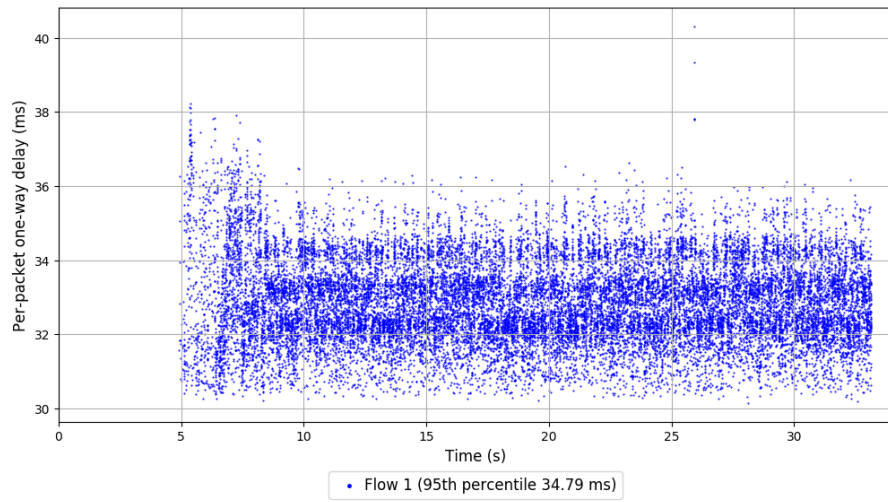
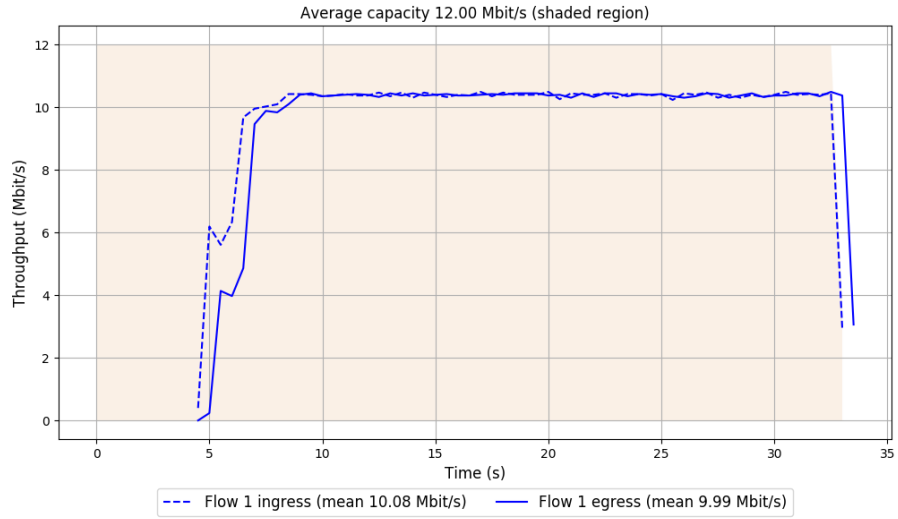
-- Flow 1:

Average throughput: 9.99 Mbit/s

95th percentile per-packet one-way delay: 34.789 ms

Loss rate: 1.00%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2020-04-16 09:29:31

End at: 2020-04-16 09:30:01

Below is generated by plot.py at 2020-04-16 09:46:12

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.02 Mbit/s (83.5% utilization)

95th percentile per-packet one-way delay: 35.040 ms

Loss rate: 0.78%

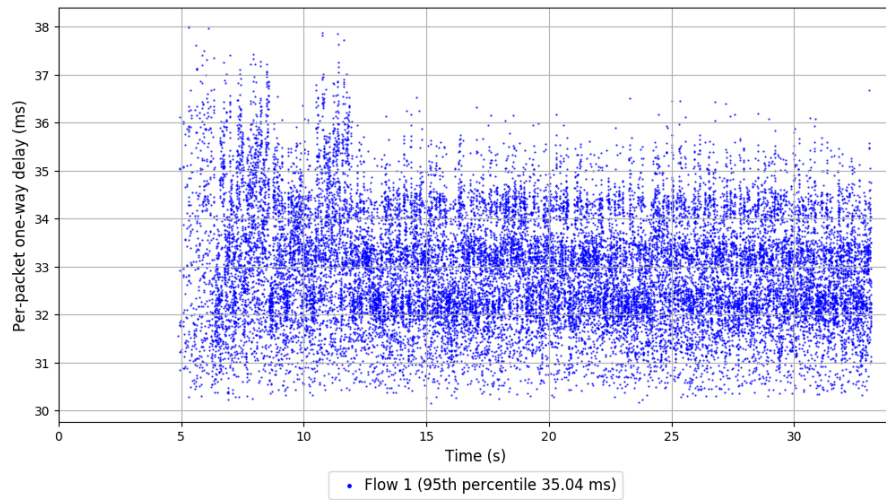
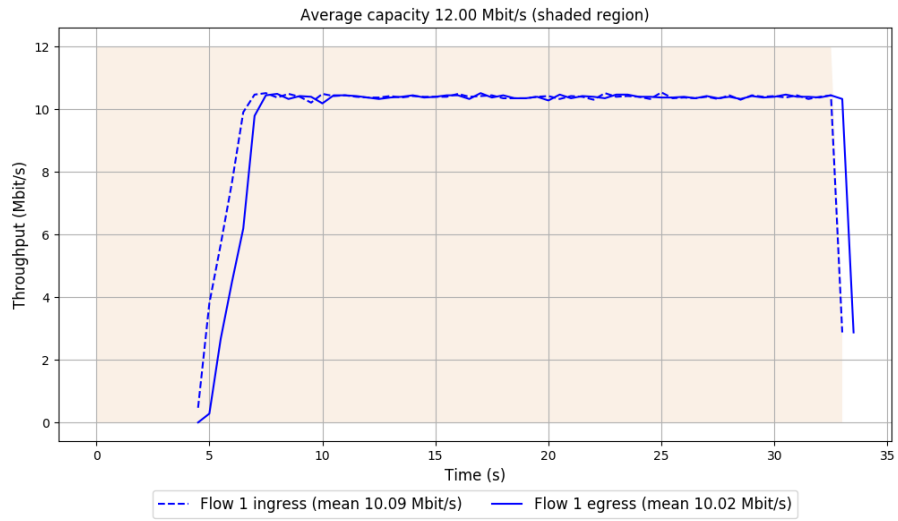
-- Flow 1:

Average throughput: 10.02 Mbit/s

95th percentile per-packet one-way delay: 35.040 ms

Loss rate: 0.78%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2020-04-16 09:43:36

End at: 2020-04-16 09:44:06

Below is generated by plot.py at 2020-04-16 09:46:30

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.08 Mbit/s (84.0% utilization)

95th percentile per-packet one-way delay: 34.721 ms

Loss rate: 0.89%

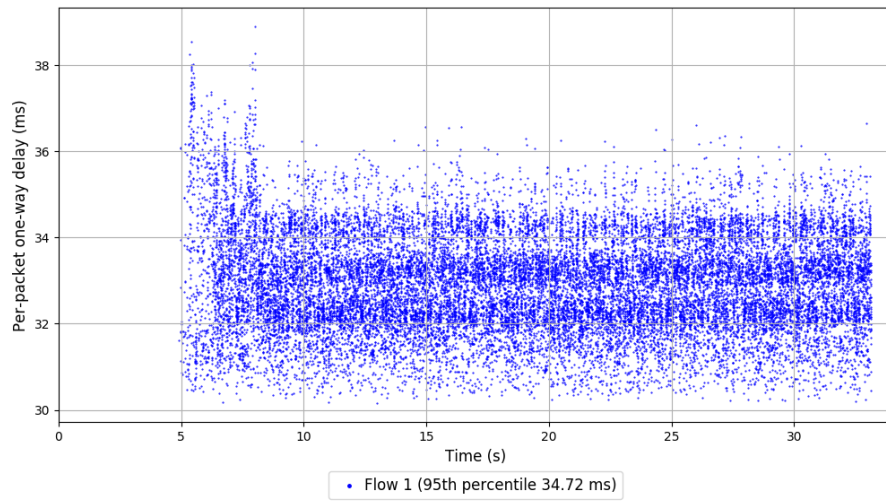
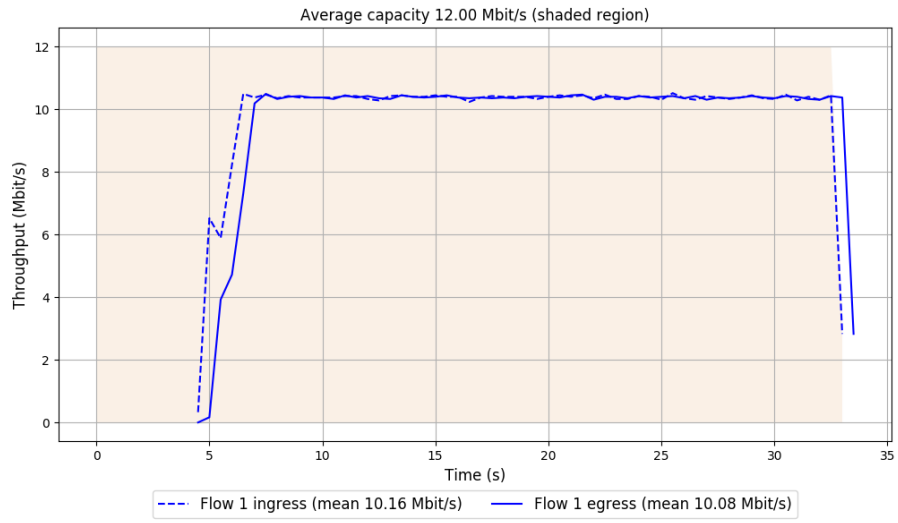
-- Flow 1:

Average throughput: 10.08 Mbit/s

95th percentile per-packet one-way delay: 34.721 ms

Loss rate: 0.89%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2020-04-16 09:11:49

End at: 2020-04-16 09:12:19

Below is generated by plot.py at 2020-04-16 09:46:30

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 5.21 Mbit/s (43.4% utilization)

95th percentile per-packet one-way delay: 35.988 ms

Loss rate: 6.32%

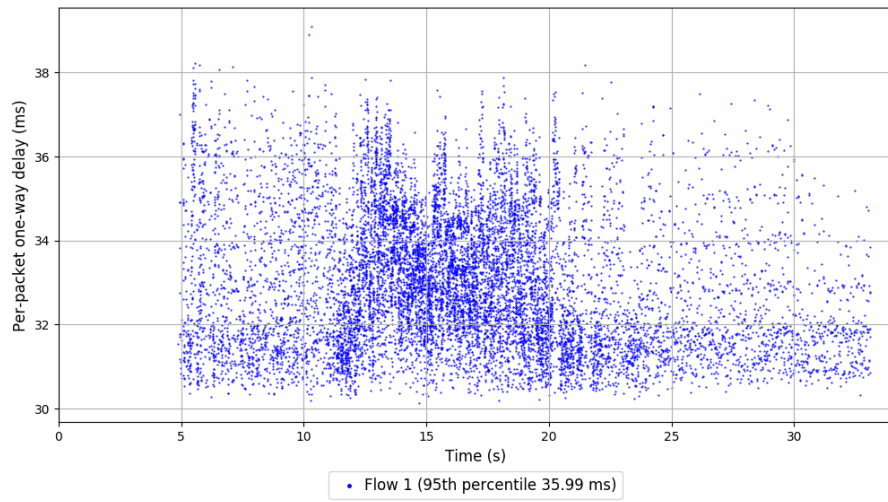
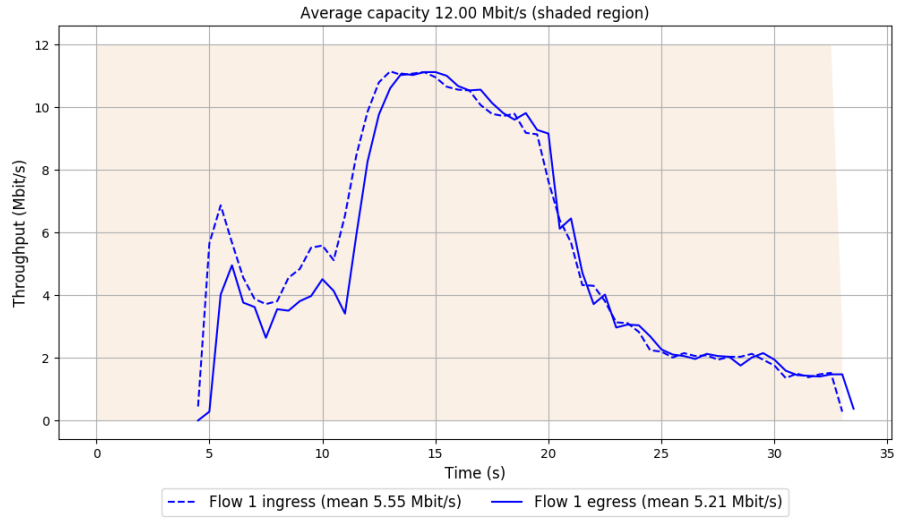
-- Flow 1:

Average throughput: 5.21 Mbit/s

95th percentile per-packet one-way delay: 35.988 ms

Loss rate: 6.32%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2020-04-16 09:25:58

End at: 2020-04-16 09:26:28

Below is generated by plot.py at 2020-04-16 09:46:30

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 5.84 Mbit/s (48.6% utilization)

95th percentile per-packet one-way delay: 36.087 ms

Loss rate: 5.08%

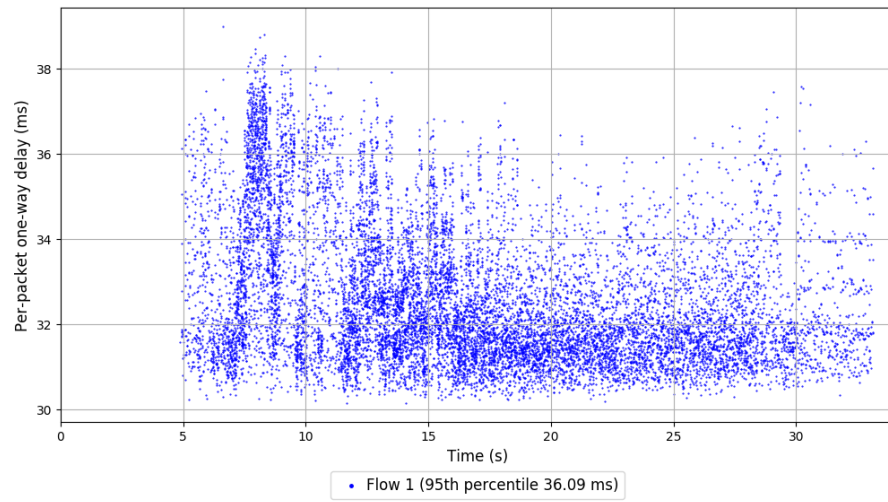
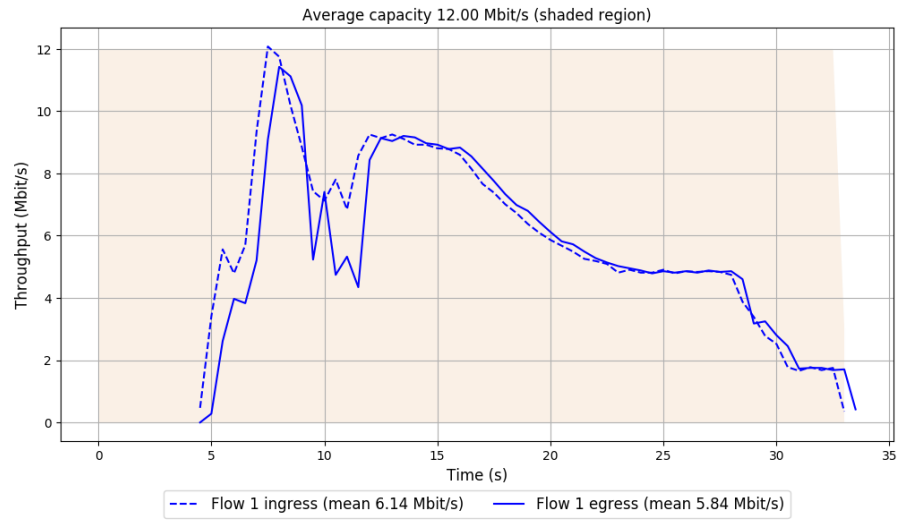
-- Flow 1:

Average throughput: 5.84 Mbit/s

95th percentile per-packet one-way delay: 36.087 ms

Loss rate: 5.08%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2020-04-16 09:40:05

End at: 2020-04-16 09:40:35

Below is generated by plot.py at 2020-04-16 09:46:30

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 5.11 Mbit/s (42.6% utilization)

95th percentile per-packet one-way delay: 35.280 ms

Loss rate: 7.59%

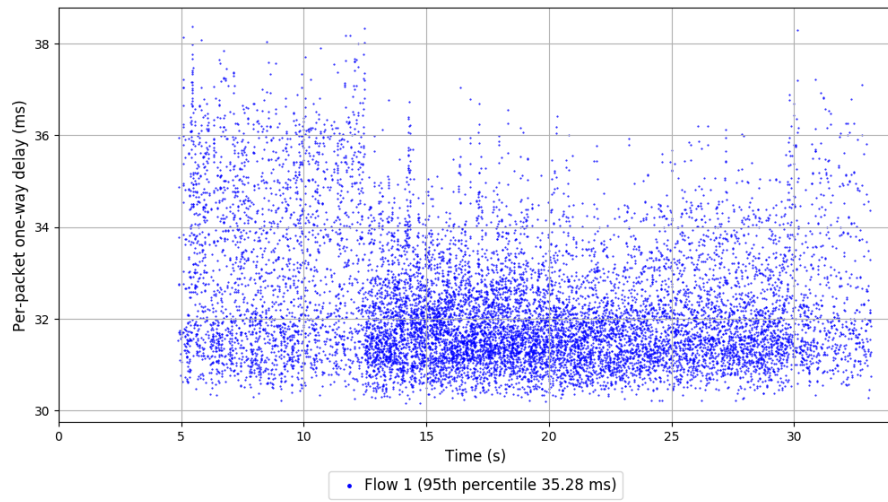
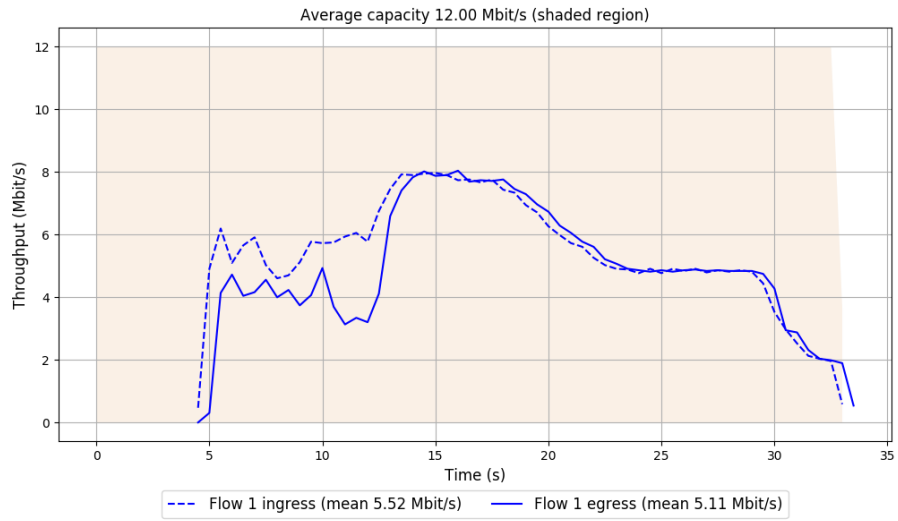
-- Flow 1:

Average throughput: 5.11 Mbit/s

95th percentile per-packet one-way delay: 35.280 ms

Loss rate: 7.59%

Run 3: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MuseST

Start at: 2020-04-16 09:03:37

End at: 2020-04-16 09:04:07

Below is generated by plot.py at 2020-04-16 09:46:37

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.49 Mbit/s (95.7% utilization)

95th percentile per-packet one-way delay: 37.022 ms

Loss rate: 1.34%

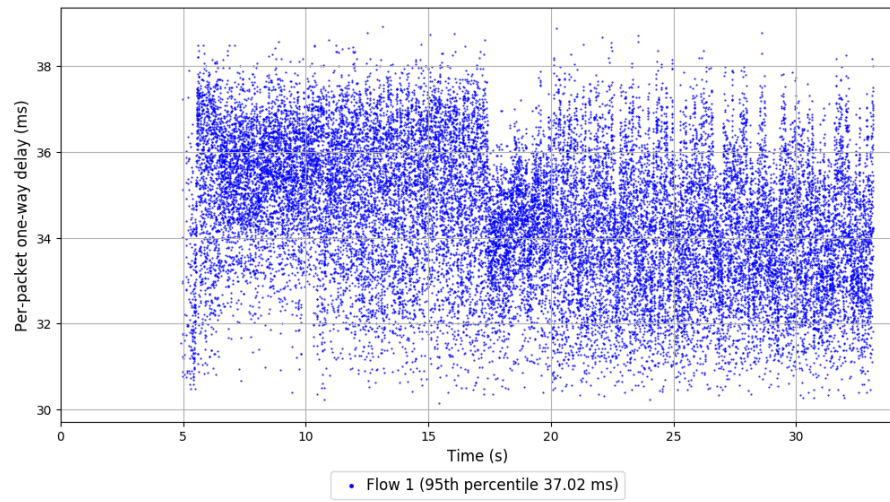
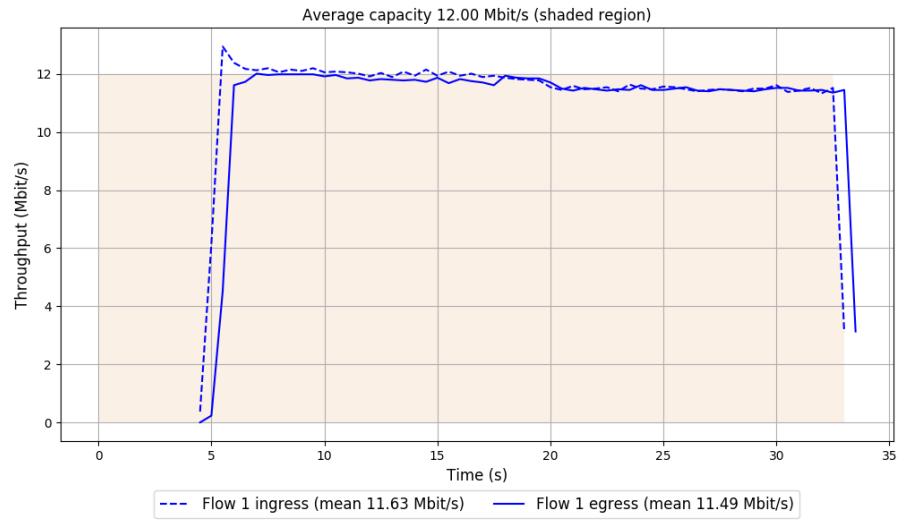
-- Flow 1:

Average throughput: 11.49 Mbit/s

95th percentile per-packet one-way delay: 37.022 ms

Loss rate: 1.34%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2020-04-16 09:17:45

End at: 2020-04-16 09:18:15

Below is generated by plot.py at 2020-04-16 09:46:38

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.47 Mbit/s (95.6% utilization)

95th percentile per-packet one-way delay: 36.909 ms

Loss rate: 1.11%

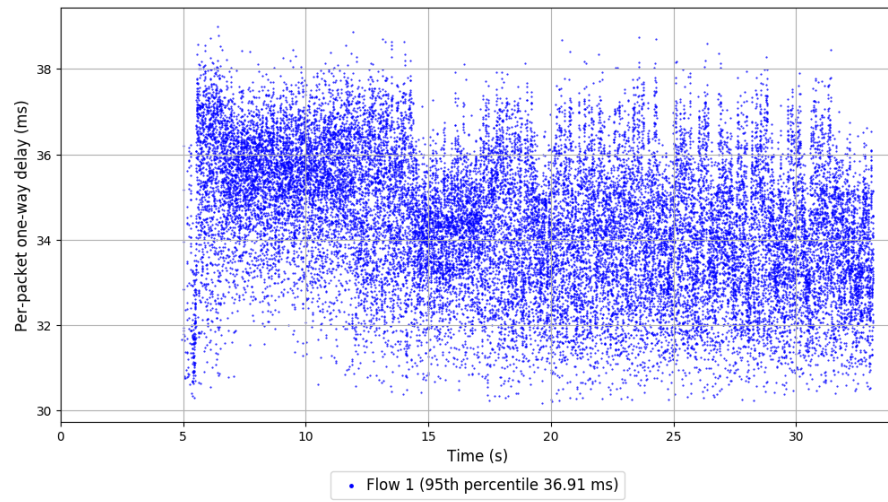
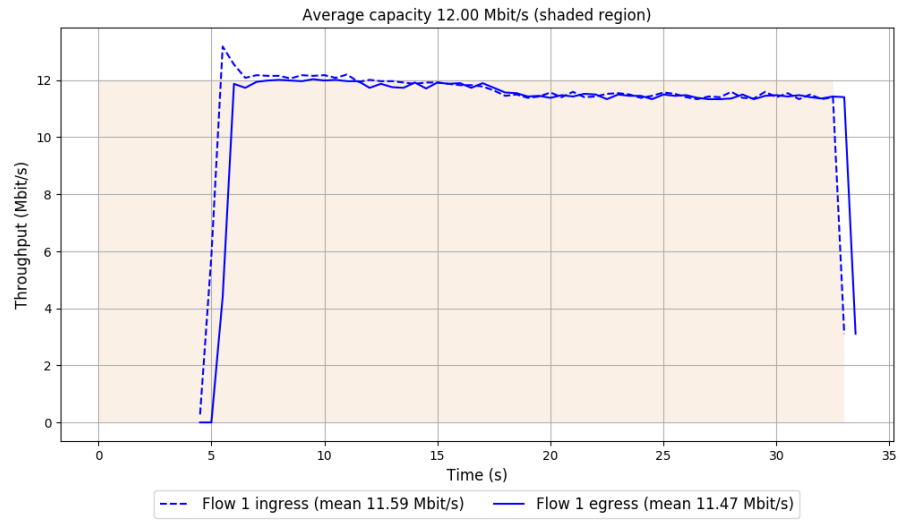
-- Flow 1:

Average throughput: 11.47 Mbit/s

95th percentile per-packet one-way delay: 36.909 ms

Loss rate: 1.11%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MuseST

Start at: 2020-04-16 09:31:52

End at: 2020-04-16 09:32:22

Below is generated by plot.py at 2020-04-16 09:46:39

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.53 Mbit/s (96.1% utilization)

95th percentile per-packet one-way delay: 36.893 ms

Loss rate: 1.09%

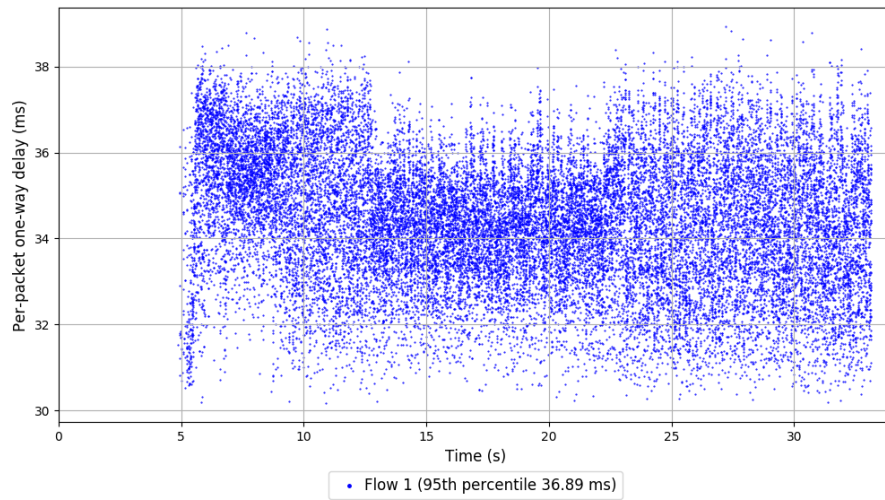
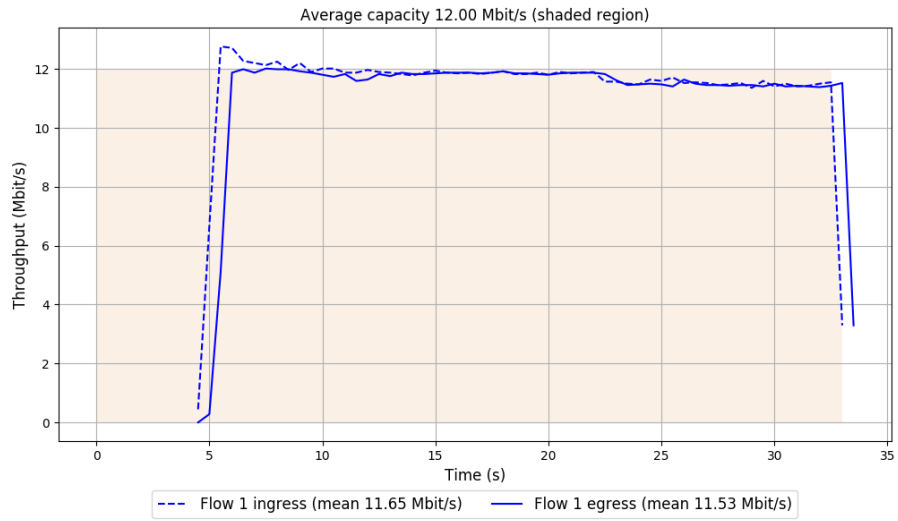
-- Flow 1:

Average throughput: 11.53 Mbit/s

95th percentile per-packet one-way delay: 36.893 ms

Loss rate: 1.09%

Run 3: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2020-04-16 09:05:22

End at: 2020-04-16 09:05:52

Below is generated by plot.py at 2020-04-16 09:46:39

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 3.57 Mbit/s (29.7% utilization)

95th percentile per-packet one-way delay: 36.235 ms

Loss rate: 2.87%

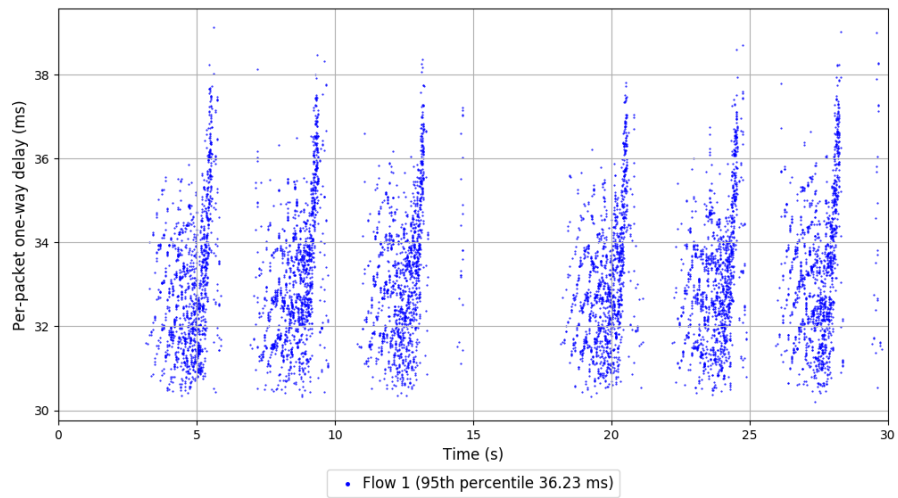
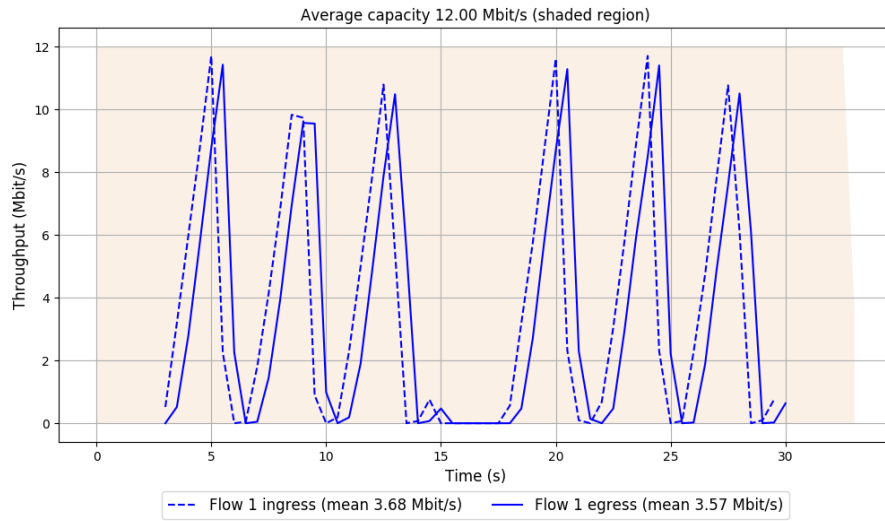
-- Flow 1:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 36.235 ms

Loss rate: 2.87%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2020-04-16 09:19:31

End at: 2020-04-16 09:20:01

Below is generated by plot.py at 2020-04-16 09:46:39

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 3.36 Mbit/s (28.0% utilization)

95th percentile per-packet one-way delay: 36.138 ms

Loss rate: 2.99%

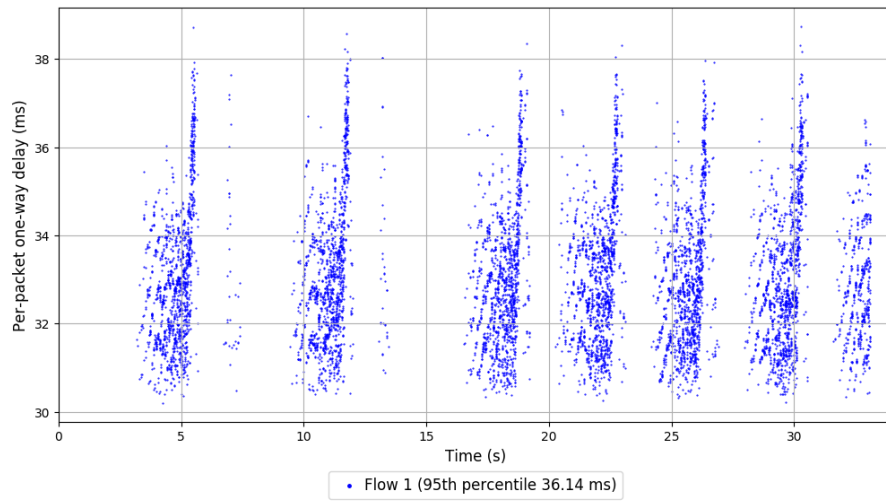
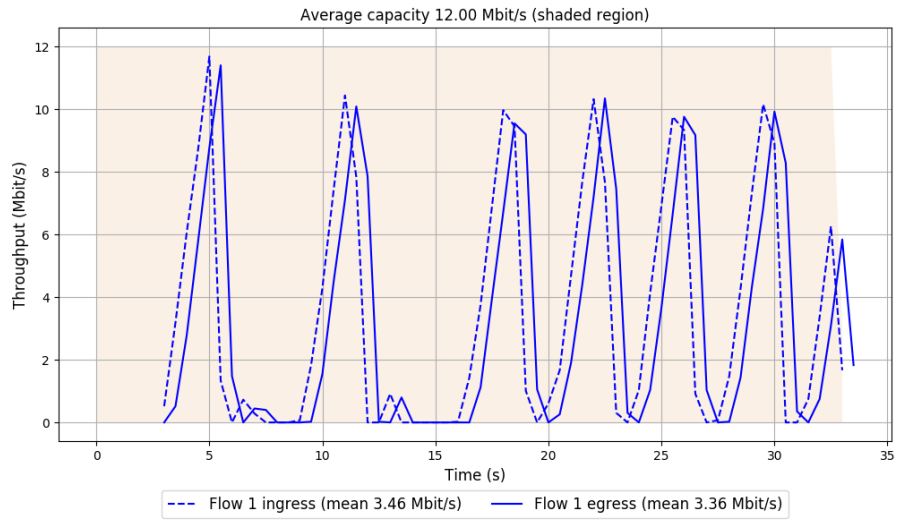
-- Flow 1:

Average throughput: 3.36 Mbit/s

95th percentile per-packet one-way delay: 36.138 ms

Loss rate: 2.99%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2020-04-16 09:33:38

End at: 2020-04-16 09:34:08

Below is generated by plot.py at 2020-04-16 09:46:39

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 2.67 Mbit/s (22.2% utilization)

95th percentile per-packet one-way delay: 36.286 ms

Loss rate: 2.87%

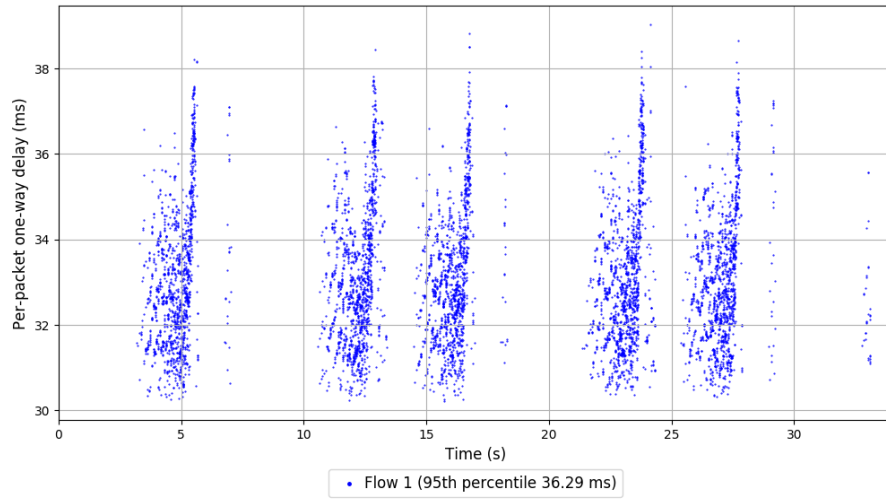
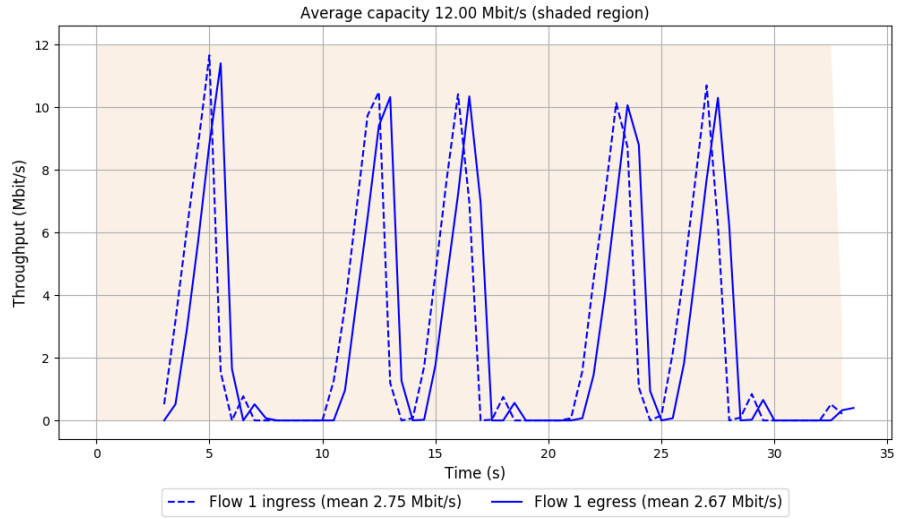
-- Flow 1:

Average throughput: 2.67 Mbit/s

95th percentile per-packet one-way delay: 36.286 ms

Loss rate: 2.87%

Run 3: Report of LEDBAT — Data Link



Run 1: Statistics of Muses_DecisionTree

Start at: 2020-04-16 09:08:18

End at: 2020-04-16 09:08:48

Below is generated by plot.py at 2020-04-16 09:46:46

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 8.48 Mbit/s (70.7% utilization)

95th percentile per-packet one-way delay: 33.796 ms

Loss rate: 1.06%

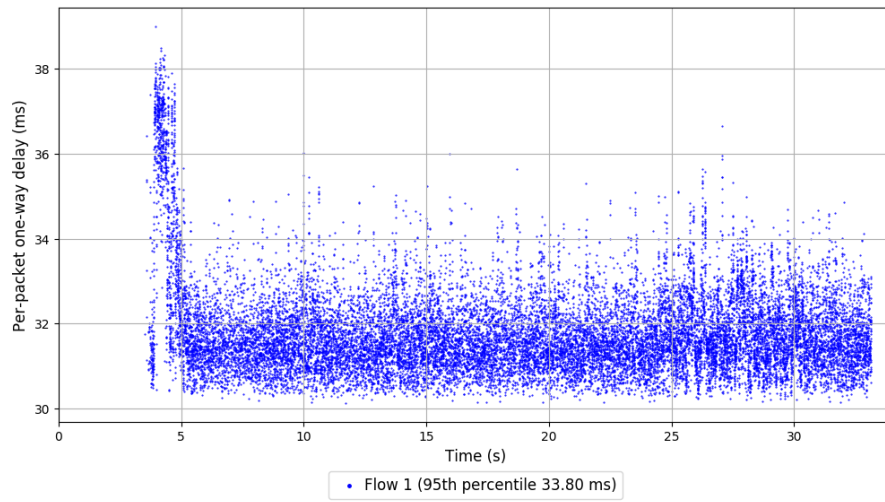
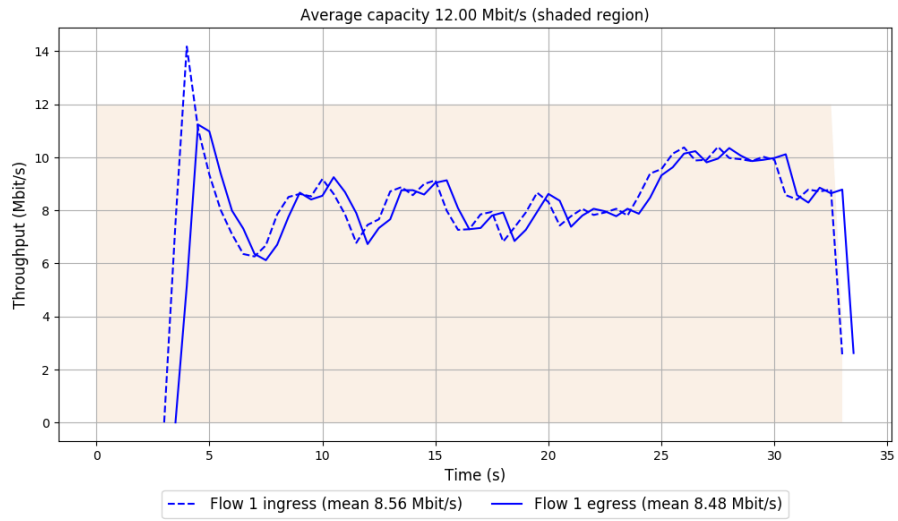
-- Flow 1:

Average throughput: 8.48 Mbit/s

95th percentile per-packet one-way delay: 33.796 ms

Loss rate: 1.06%

Run 1: Report of Muses_DecisionTree — Data Link



Run 2: Statistics of Muses_DecisionTree

Start at: 2020-04-16 09:22:26

End at: 2020-04-16 09:22:56

Below is generated by plot.py at 2020-04-16 09:46:48

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 8.84 Mbit/s (73.6% utilization)

95th percentile per-packet one-way delay: 33.865 ms

Loss rate: 1.07%

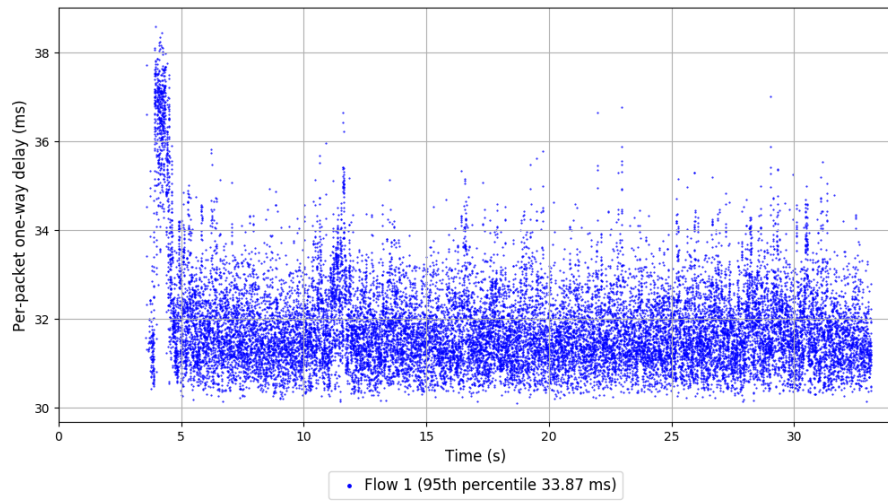
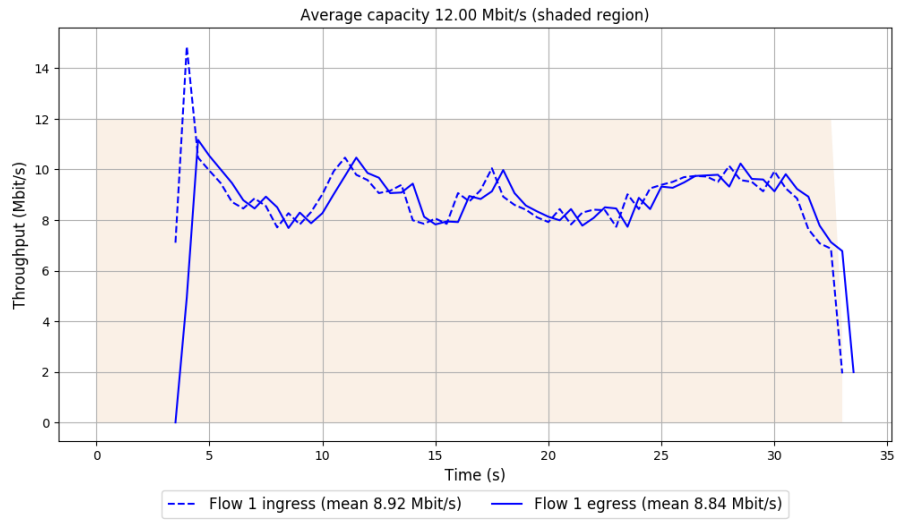
-- Flow 1:

Average throughput: 8.84 Mbit/s

95th percentile per-packet one-way delay: 33.865 ms

Loss rate: 1.07%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

Start at: 2020-04-16 09:36:34

End at: 2020-04-16 09:37:04

Below is generated by plot.py at 2020-04-16 09:46:50

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 8.05 Mbit/s (67.1% utilization)

95th percentile per-packet one-way delay: 33.647 ms

Loss rate: 1.32%

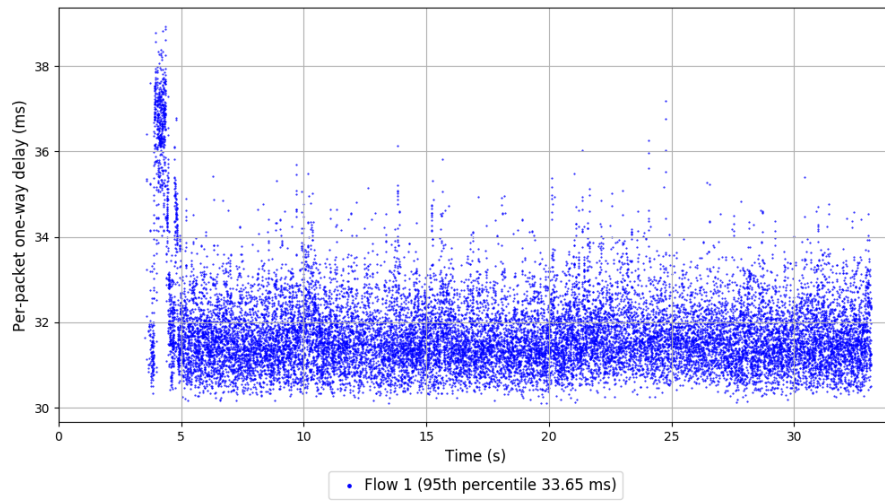
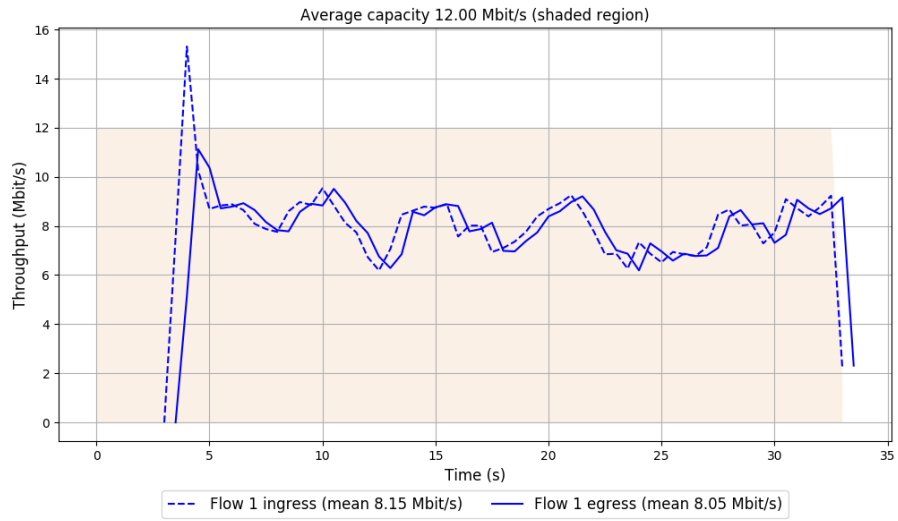
-- Flow 1:

Average throughput: 8.05 Mbit/s

95th percentile per-packet one-way delay: 33.647 ms

Loss rate: 1.32%

Run 3: Report of Muses_DecisionTree — Data Link



Run 1: Statistics of Muses_DecisionTreeH0

Start at: 2020-04-16 09:07:08

End at: 2020-04-16 09:07:38

Below is generated by plot.py at 2020-04-16 09:47:04

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.71 Mbit/s (97.6% utilization)

95th percentile per-packet one-way delay: 37.299 ms

Loss rate: 4.51%

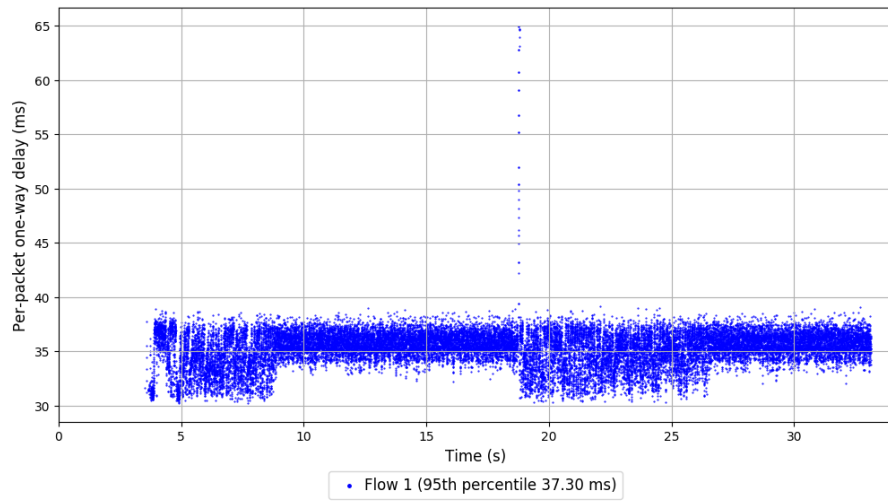
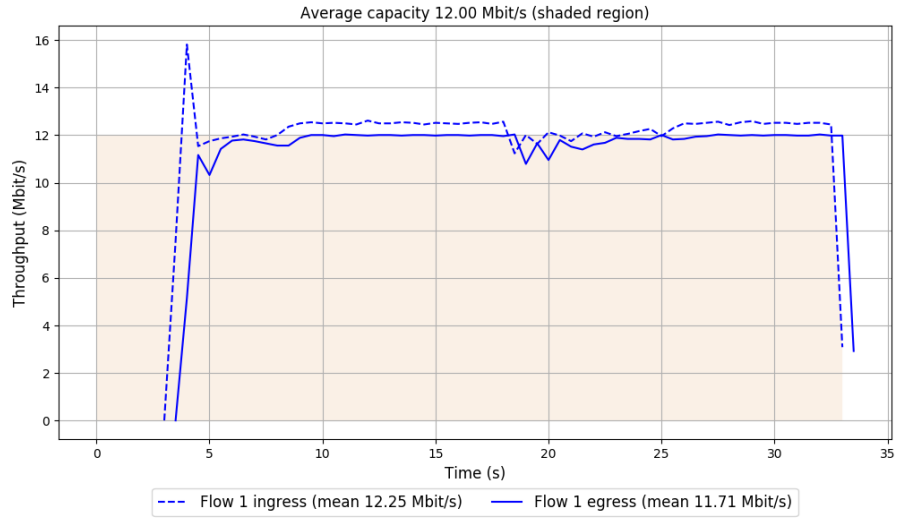
-- Flow 1:

Average throughput: 11.71 Mbit/s

95th percentile per-packet one-way delay: 37.299 ms

Loss rate: 4.51%

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2020-04-16 09:21:16

End at: 2020-04-16 09:21:46

Below is generated by plot.py at 2020-04-16 09:47:04

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.71 Mbit/s (97.6% utilization)

95th percentile per-packet one-way delay: 37.359 ms

Loss rate: 4.15%

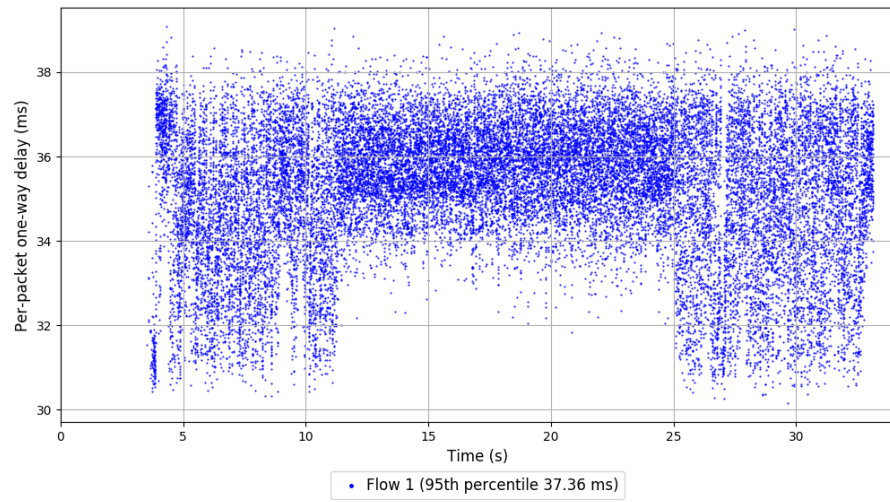
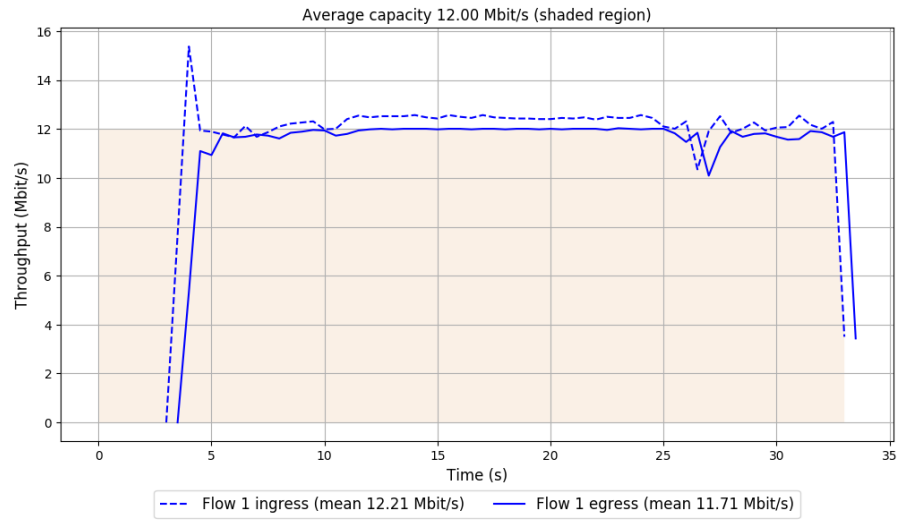
-- Flow 1:

Average throughput: 11.71 Mbit/s

95th percentile per-packet one-way delay: 37.359 ms

Loss rate: 4.15%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2020-04-16 09:35:23

End at: 2020-04-16 09:35:53

Below is generated by plot.py at 2020-04-16 09:47:05

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.67 Mbit/s (97.3% utilization)

95th percentile per-packet one-way delay: 37.247 ms

Loss rate: 3.81%

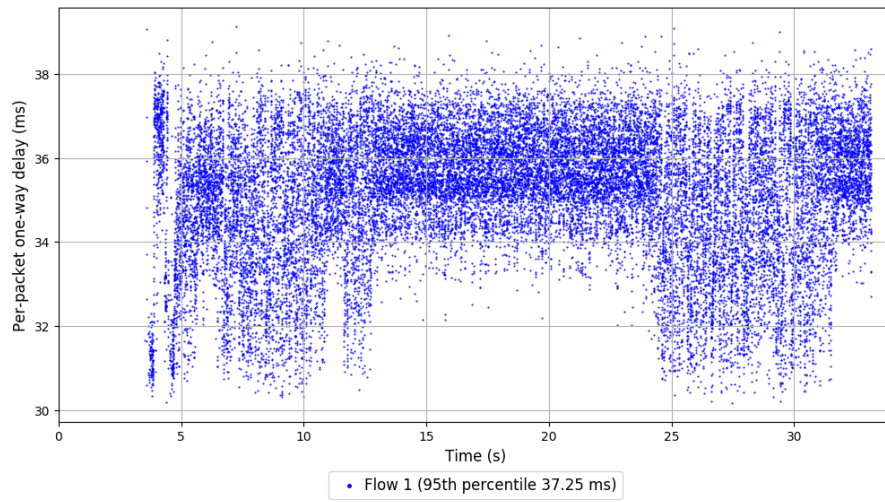
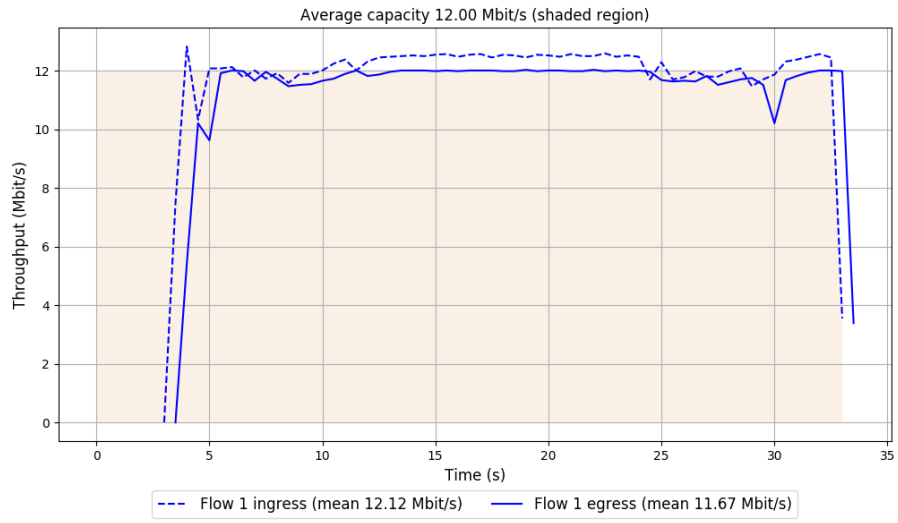
-- Flow 1:

Average throughput: 11.67 Mbit/s

95th percentile per-packet one-way delay: 37.247 ms

Loss rate: 3.81%

Run 3: Report of Muses_DecisionTreeH0 — Data Link



Run 1: Statistics of Muses_DecisionTreeR0

Start at: 2020-04-16 09:07:43

End at: 2020-04-16 09:08:13

Below is generated by plot.py at 2020-04-16 09:47:05

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 9.17 Mbit/s (76.4% utilization)

95th percentile per-packet one-way delay: 33.390 ms

Loss rate: 0.98%

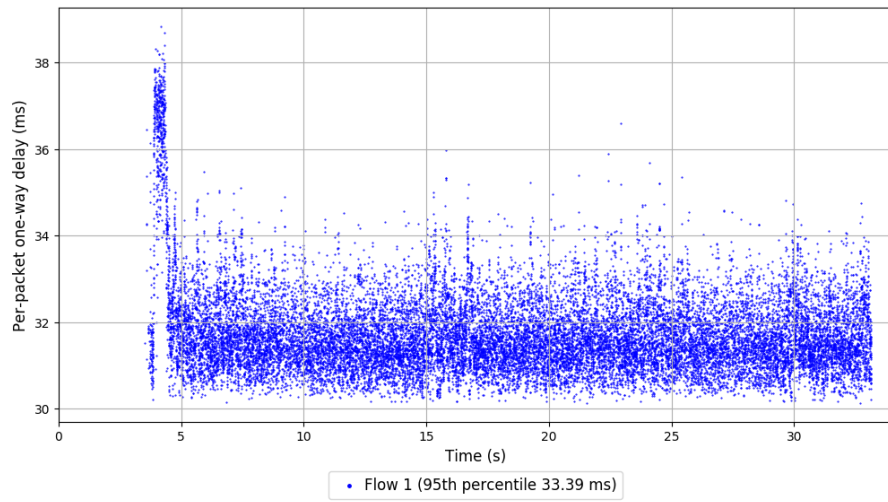
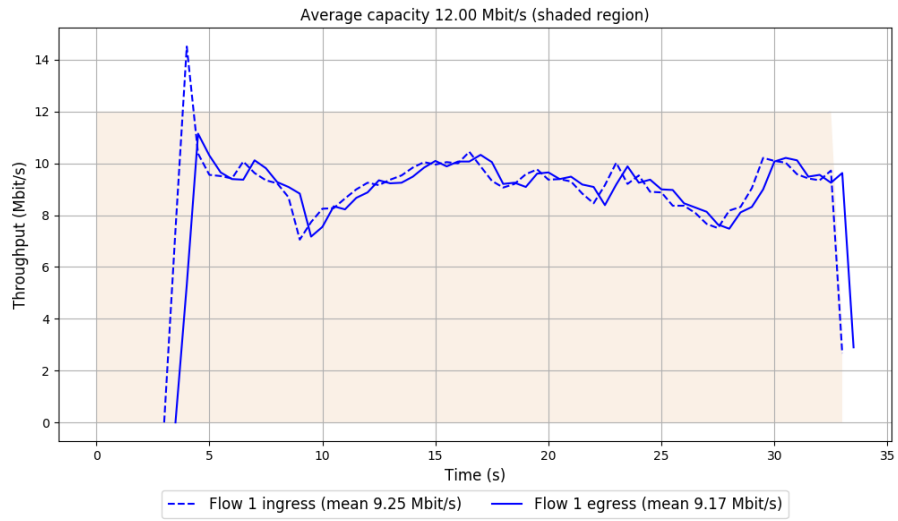
-- Flow 1:

Average throughput: 9.17 Mbit/s

95th percentile per-packet one-way delay: 33.390 ms

Loss rate: 0.98%

Run 1: Report of Muses_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2020-04-16 09:21:51

End at: 2020-04-16 09:22:21

Below is generated by plot.py at 2020-04-16 09:47:05

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 9.53 Mbit/s (79.4% utilization)

95th percentile per-packet one-way delay: 33.403 ms

Loss rate: 0.79%

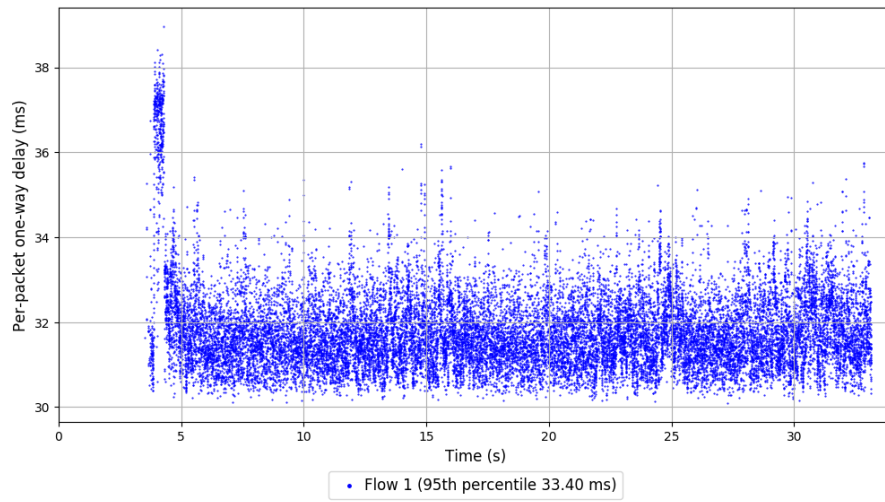
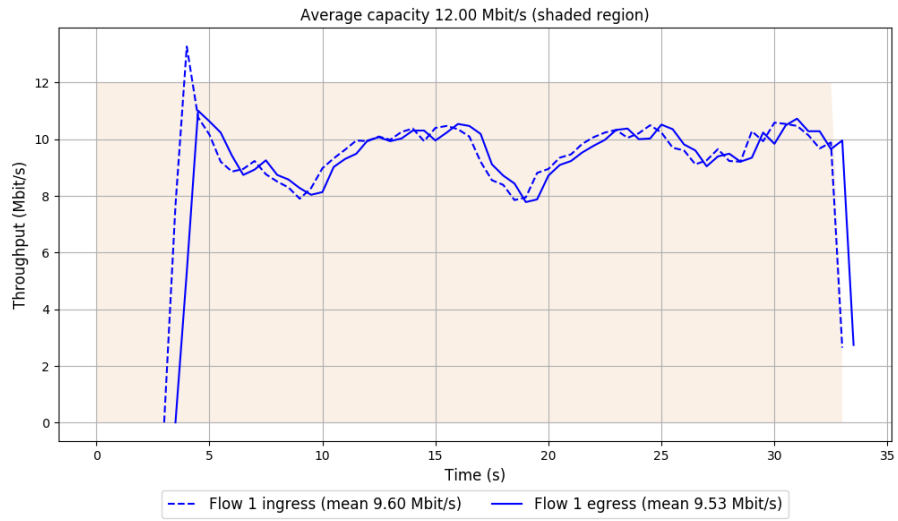
-- Flow 1:

Average throughput: 9.53 Mbit/s

95th percentile per-packet one-way delay: 33.403 ms

Loss rate: 0.79%

Run 2: Report of Muses_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2020-04-16 09:35:59

End at: 2020-04-16 09:36:29

Below is generated by plot.py at 2020-04-16 09:47:08

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 8.47 Mbit/s (70.6% utilization)

95th percentile per-packet one-way delay: 33.491 ms

Loss rate: 1.28%

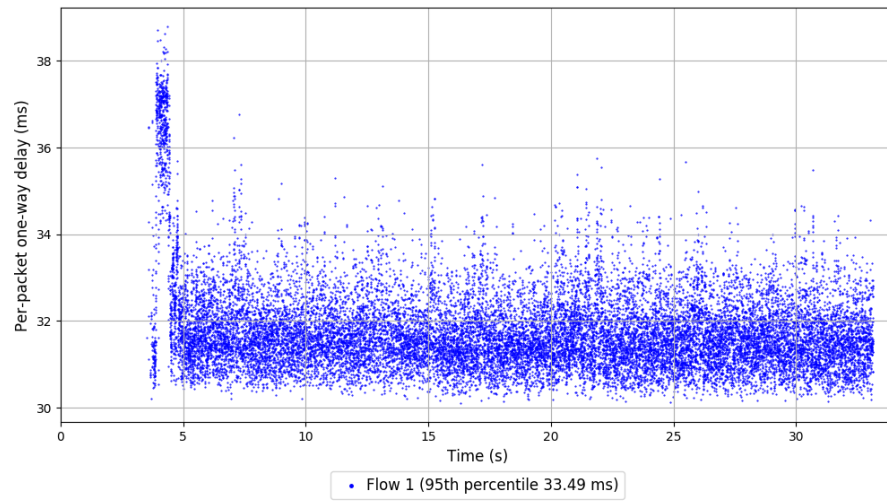
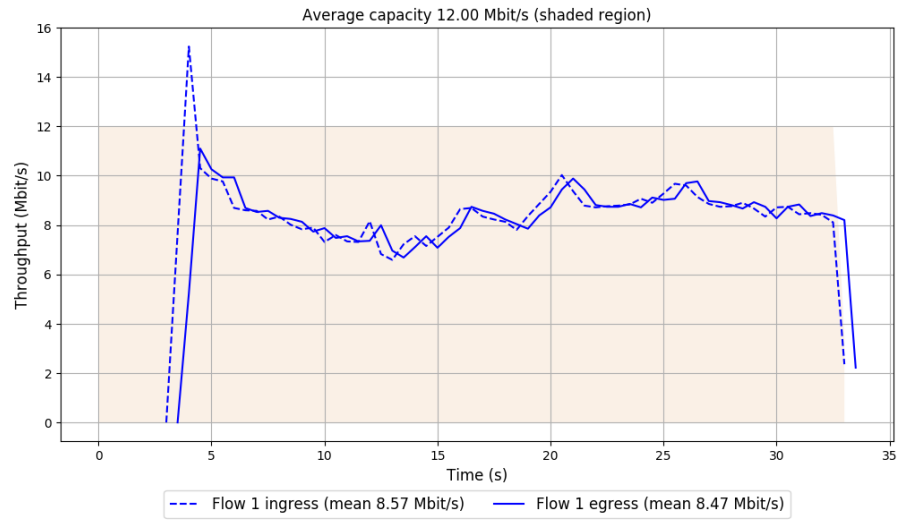
-- Flow 1:

Average throughput: 8.47 Mbit/s

95th percentile per-packet one-way delay: 33.491 ms

Loss rate: 1.28%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2020-04-16 09:04:47

End at: 2020-04-16 09:05:17

Below is generated by plot.py at 2020-04-16 09:47:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.31 Mbit/s (85.9% utilization)

95th percentile per-packet one-way delay: 34.411 ms

Loss rate: 0.77%

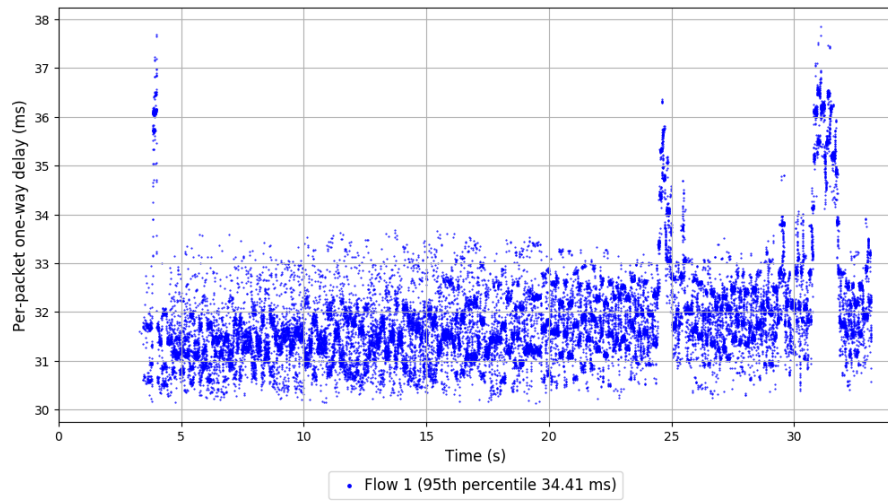
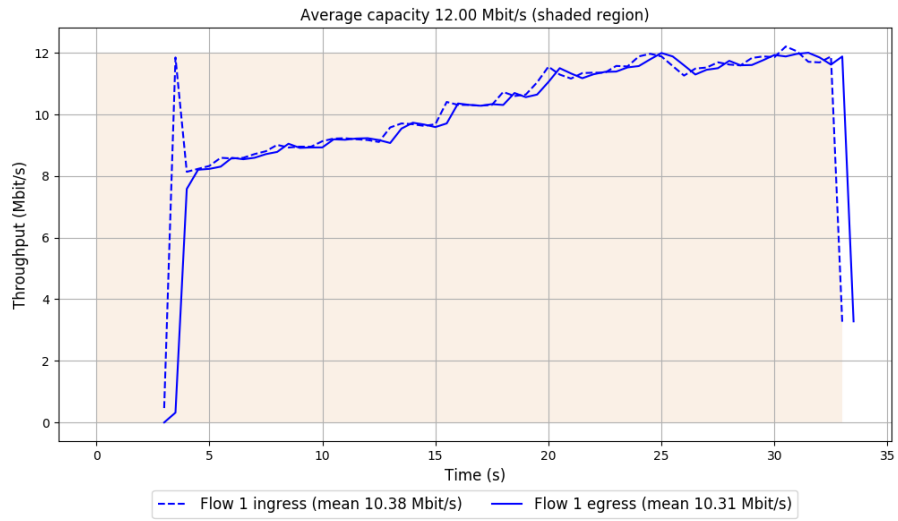
-- Flow 1:

Average throughput: 10.31 Mbit/s

95th percentile per-packet one-way delay: 34.411 ms

Loss rate: 0.77%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2020-04-16 09:18:55

End at: 2020-04-16 09:19:25

Below is generated by plot.py at 2020-04-16 09:47:15

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 9.81 Mbit/s (81.7% utilization)

95th percentile per-packet one-way delay: 34.871 ms

Loss rate: 0.81%

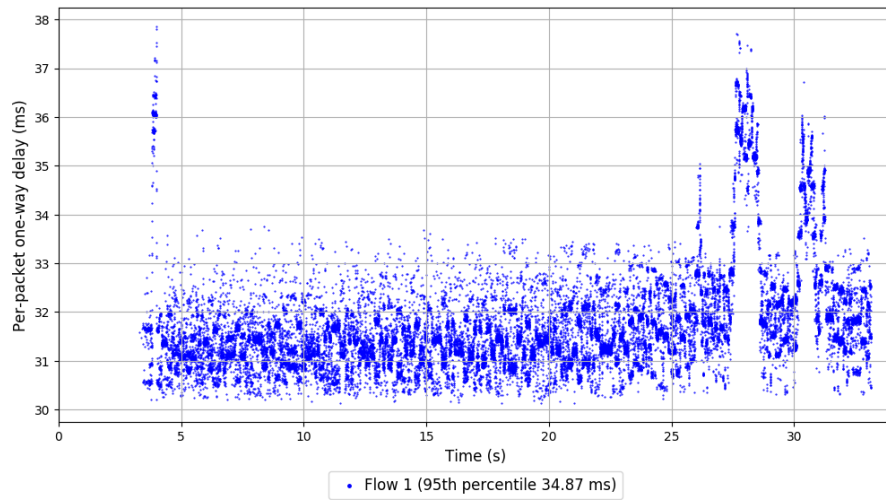
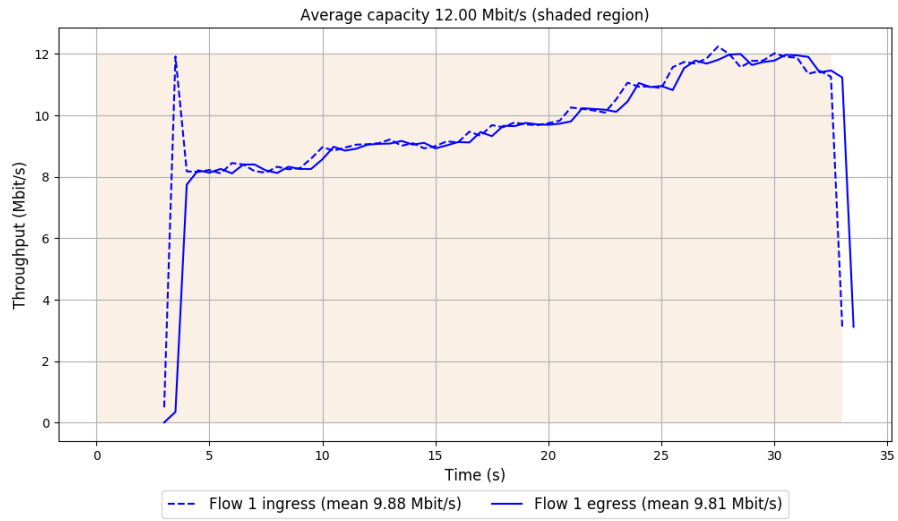
-- Flow 1:

Average throughput: 9.81 Mbit/s

95th percentile per-packet one-way delay: 34.871 ms

Loss rate: 0.81%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2020-04-16 09:33:03

End at: 2020-04-16 09:33:33

Below is generated by plot.py at 2020-04-16 09:47:22

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 9.73 Mbit/s (81.1% utilization)

95th percentile per-packet one-way delay: 32.864 ms

Loss rate: 0.87%

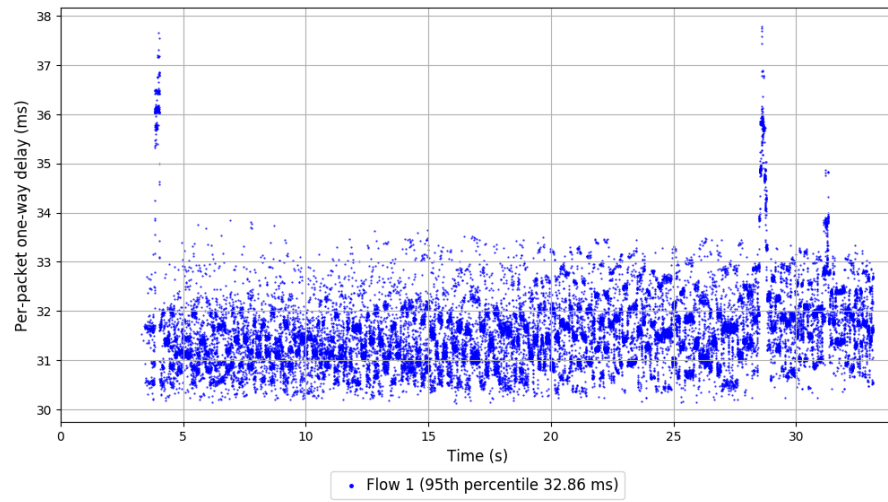
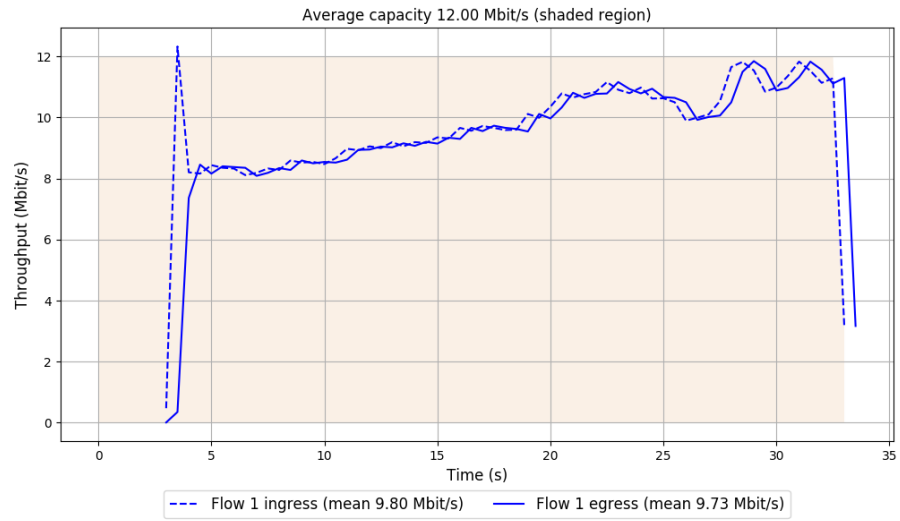
-- Flow 1:

Average throughput: 9.73 Mbit/s

95th percentile per-packet one-way delay: 32.864 ms

Loss rate: 0.87%

Run 3: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2020-04-16 09:10:39

End at: 2020-04-16 09:11:09

Below is generated by plot.py at 2020-04-16 09:47:43

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.41 Mbit/s (95.1% utilization)

95th percentile per-packet one-way delay: 37.006 ms

Loss rate: 2.19%

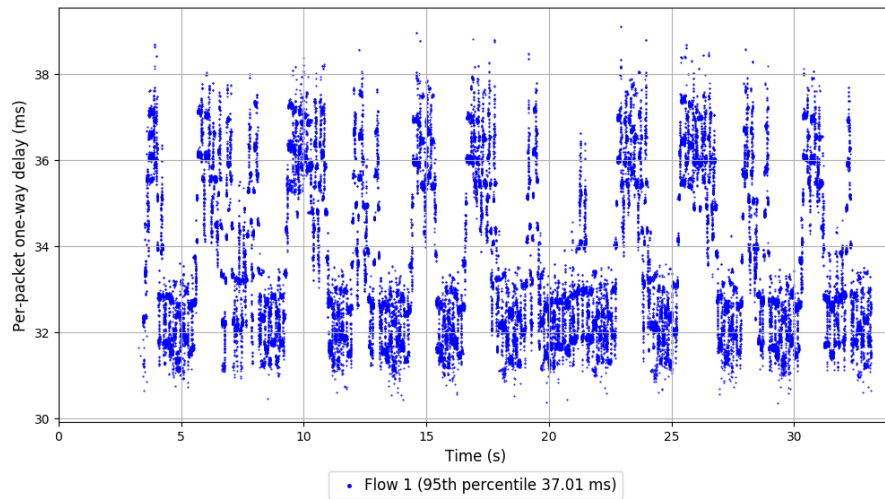
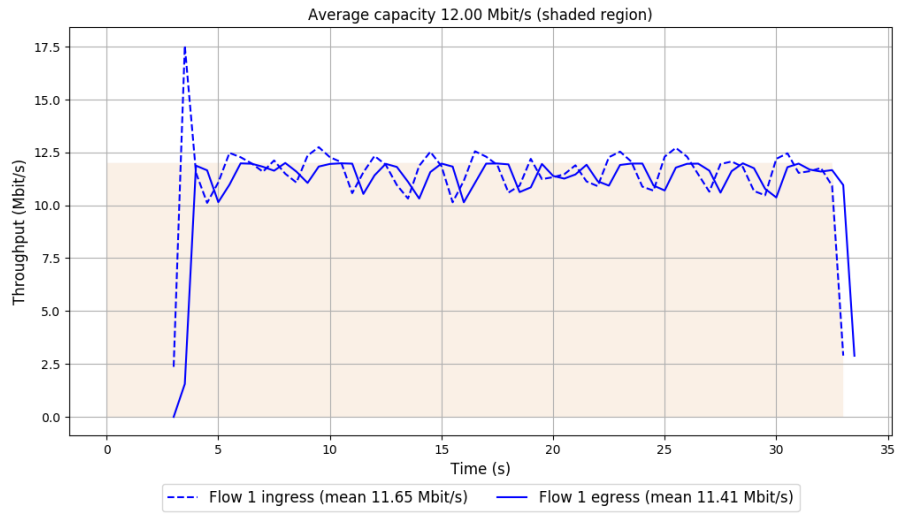
-- Flow 1:

Average throughput: 11.41 Mbit/s

95th percentile per-packet one-way delay: 37.006 ms

Loss rate: 2.19%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2020-04-16 09:24:48

End at: 2020-04-16 09:25:18

Below is generated by plot.py at 2020-04-16 09:47:46

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.40 Mbit/s (95.0% utilization)

95th percentile per-packet one-way delay: 37.021 ms

Loss rate: 2.35%

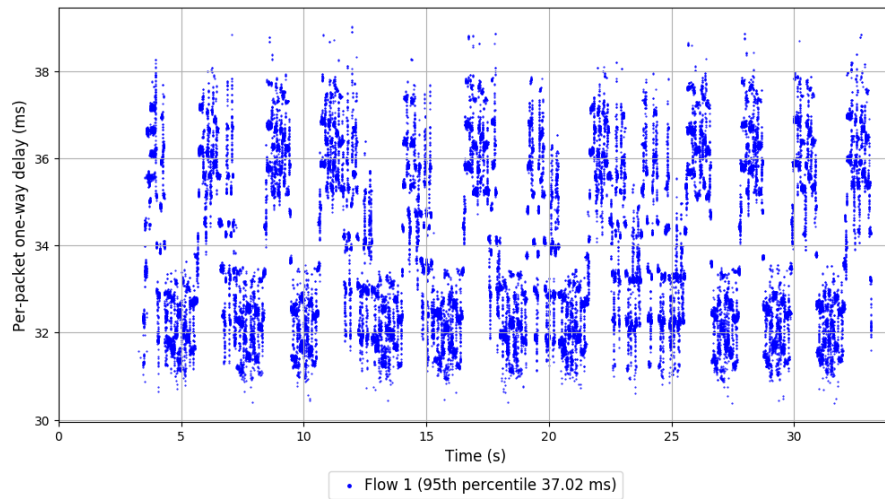
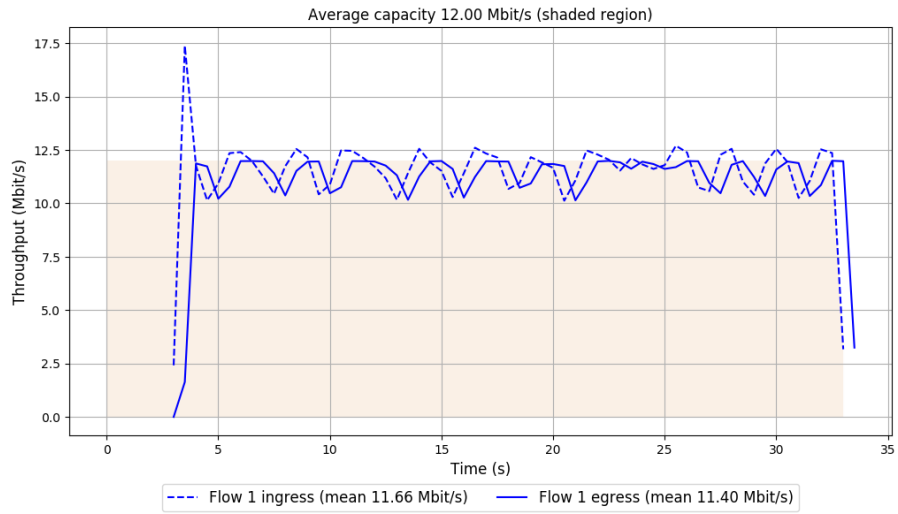
-- Flow 1:

Average throughput: 11.40 Mbit/s

95th percentile per-packet one-way delay: 37.021 ms

Loss rate: 2.35%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2020-04-16 09:38:54

End at: 2020-04-16 09:39:24

Below is generated by plot.py at 2020-04-16 09:47:47

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.36 Mbit/s (94.7% utilization)

95th percentile per-packet one-way delay: 37.065 ms

Loss rate: 2.25%

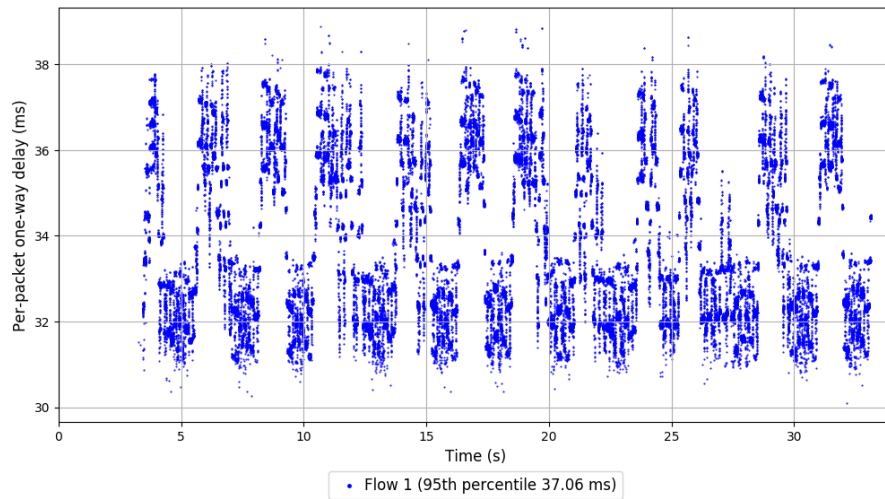
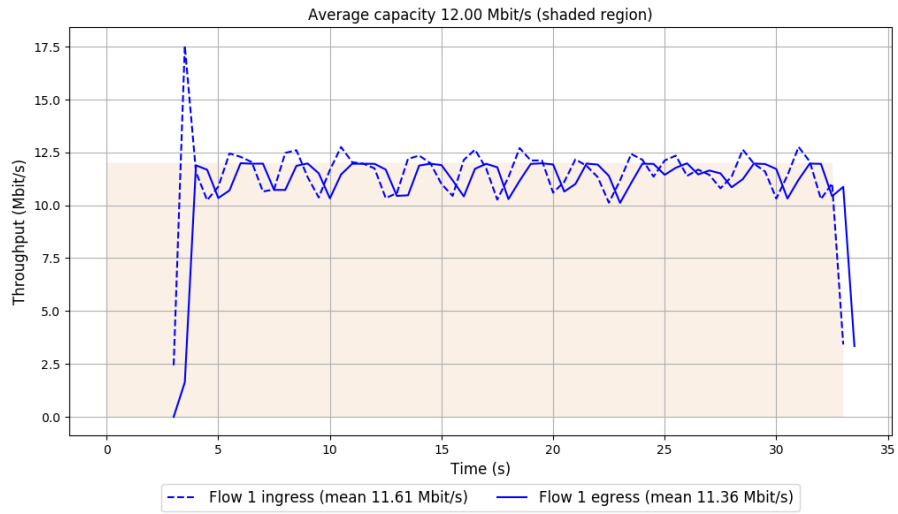
-- Flow 1:

Average throughput: 11.36 Mbit/s

95th percentile per-packet one-way delay: 37.065 ms

Loss rate: 2.25%

Run 3: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2020-04-16 09:04:12

End at: 2020-04-16 09:04:42

Below is generated by plot.py at 2020-04-16 09:47:47

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.05 Mbit/s (92.1% utilization)

95th percentile per-packet one-way delay: 35.939 ms

Loss rate: 0.46%

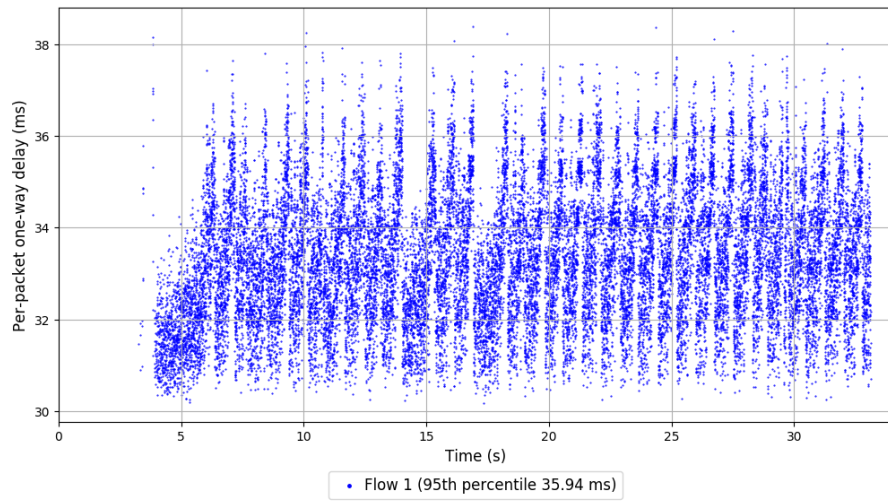
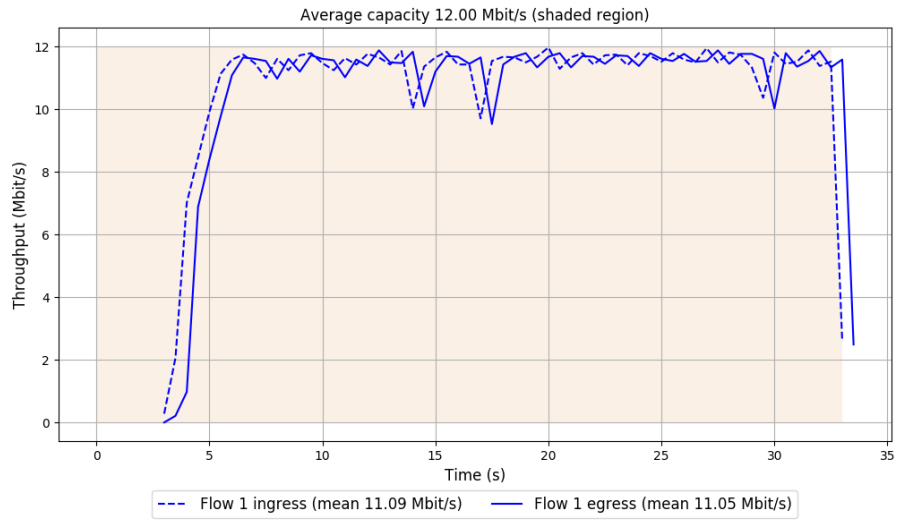
-- Flow 1:

Average throughput: 11.05 Mbit/s

95th percentile per-packet one-way delay: 35.939 ms

Loss rate: 0.46%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2020-04-16 09:18:20

End at: 2020-04-16 09:18:50

Below is generated by plot.py at 2020-04-16 09:47:47

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.08 Mbit/s (92.3% utilization)

95th percentile per-packet one-way delay: 35.950 ms

Loss rate: 0.46%

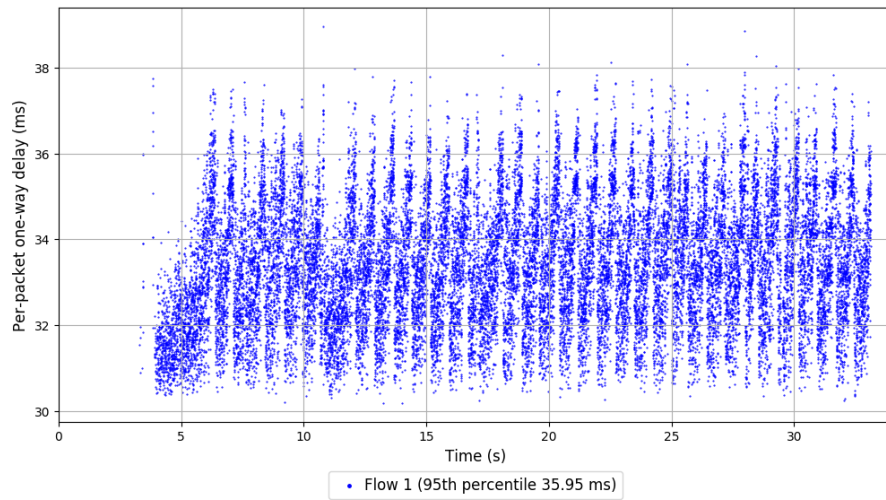
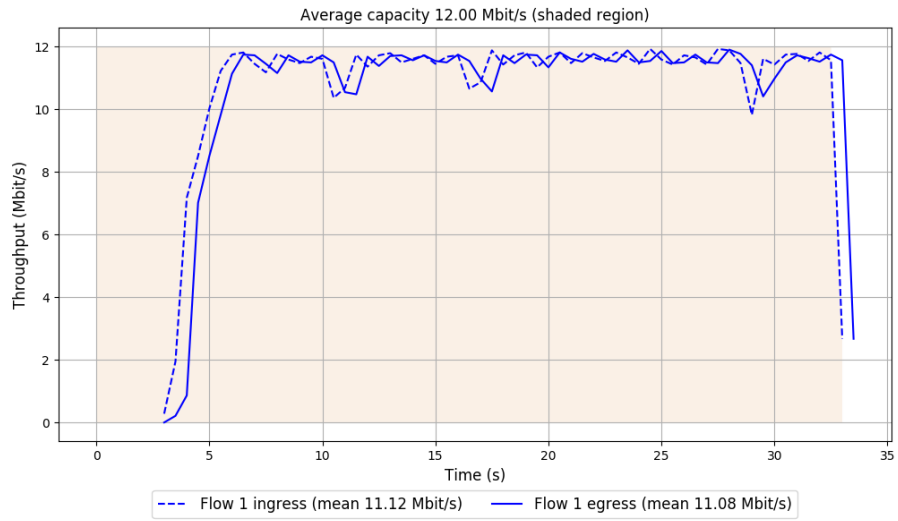
-- Flow 1:

Average throughput: 11.08 Mbit/s

95th percentile per-packet one-way delay: 35.950 ms

Loss rate: 0.46%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2020-04-16 09:32:28

End at: 2020-04-16 09:32:58

Below is generated by plot.py at 2020-04-16 09:47:47

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.12 Mbit/s (92.7% utilization)

95th percentile per-packet one-way delay: 36.016 ms

Loss rate: 0.49%

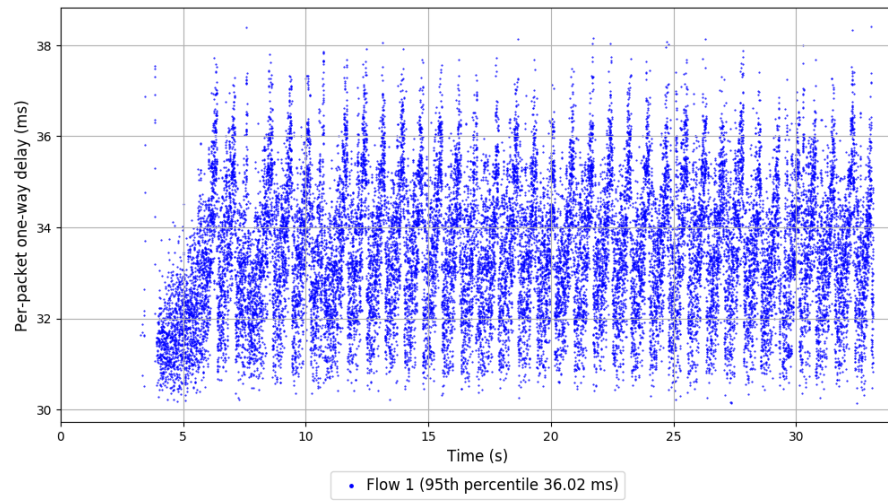
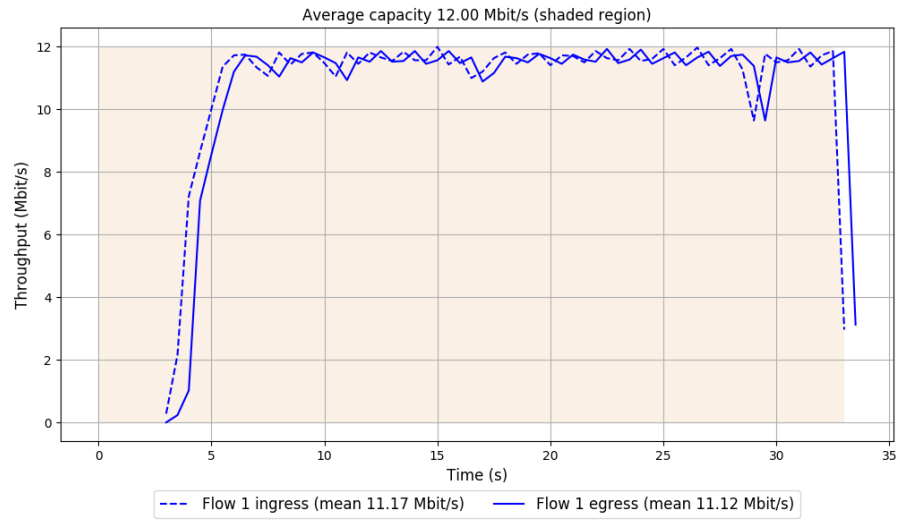
-- Flow 1:

Average throughput: 11.12 Mbit/s

95th percentile per-packet one-way delay: 36.016 ms

Loss rate: 0.49%

Run 3: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2020-04-16 09:10:04

End at: 2020-04-16 09:10:34

Below is generated by plot.py at 2020-04-16 09:47:47

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 0.21 Mbit/s (1.8% utilization)

95th percentile per-packet one-way delay: 31.706 ms

Loss rate: 0.13%

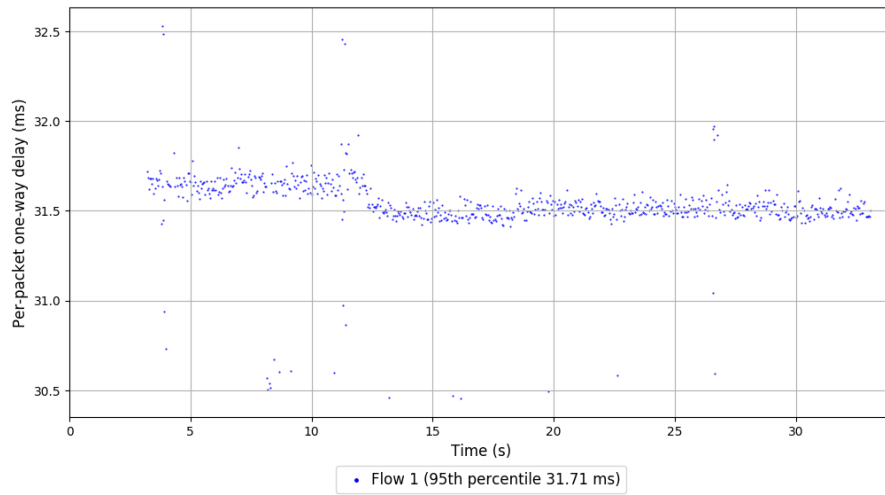
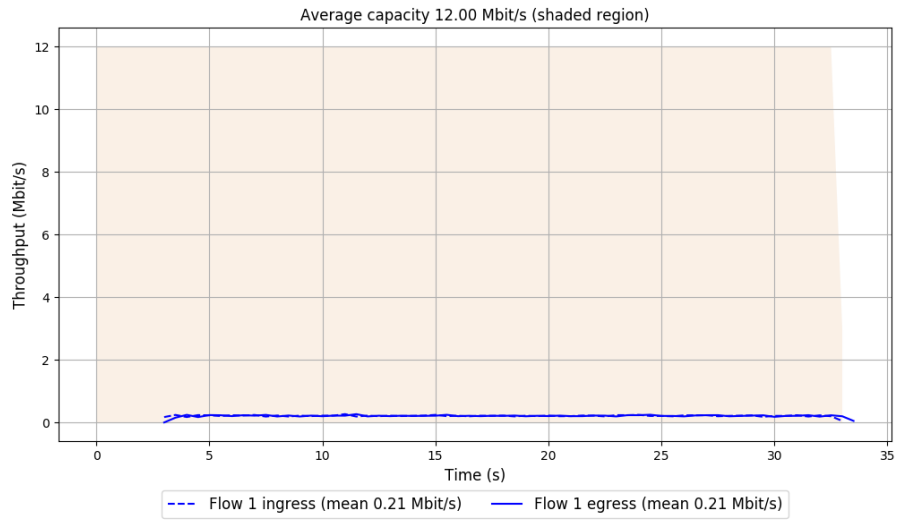
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 31.706 ms

Loss rate: 0.13%

Run 1: Report of SCReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2020-04-16 09:24:13

End at: 2020-04-16 09:24:43

Below is generated by plot.py at 2020-04-16 09:47:47

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 0.21 Mbit/s (1.8% utilization)

95th percentile per-packet one-way delay: 31.679 ms

Loss rate: 0.00%

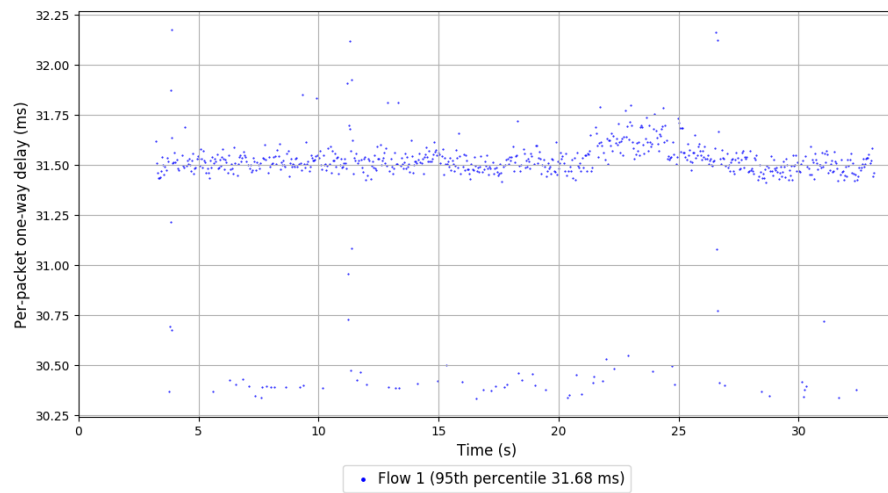
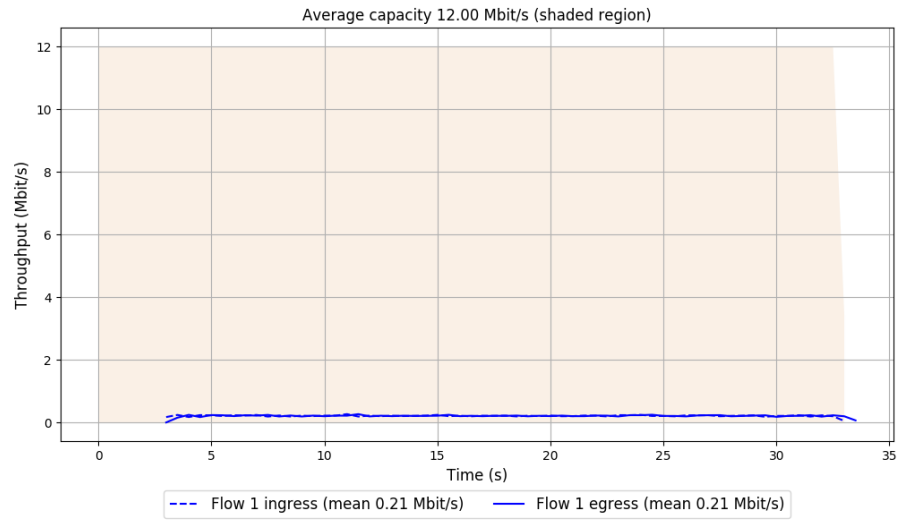
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 31.679 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2020-04-16 09:38:19

End at: 2020-04-16 09:38:49

Below is generated by plot.py at 2020-04-16 09:47:47

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 0.21 Mbit/s (1.8% utilization)

95th percentile per-packet one-way delay: 31.588 ms

Loss rate: 0.13%

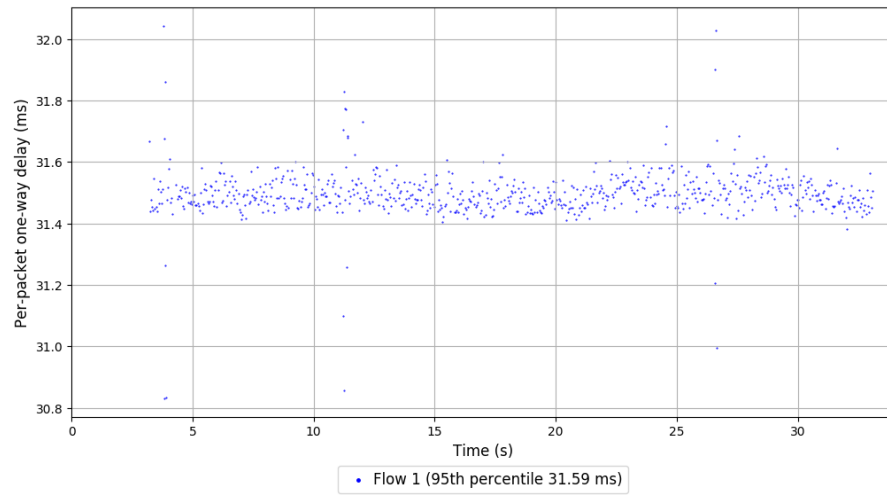
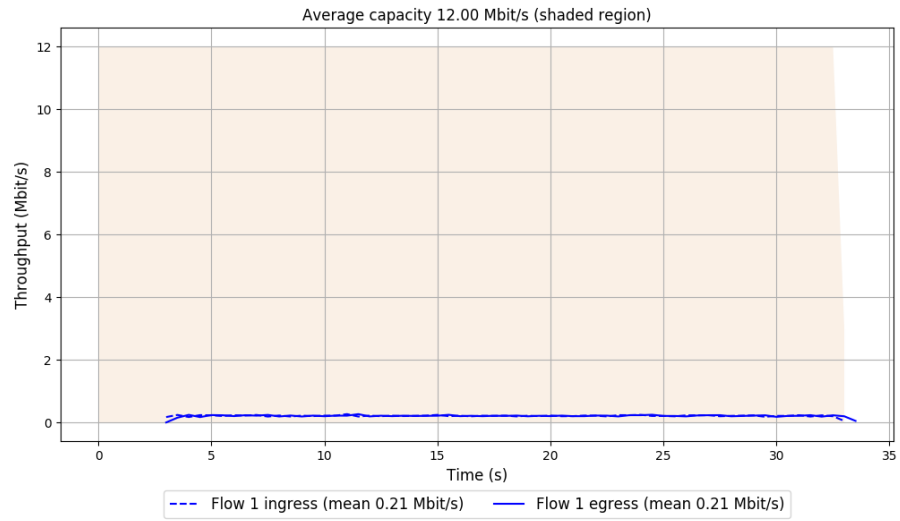
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 31.588 ms

Loss rate: 0.13%

Run 3: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2020-04-16 09:05:57

End at: 2020-04-16 09:06:27

Below is generated by plot.py at 2020-04-16 09:47:47

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 0.87 Mbit/s (7.3% utilization)

95th percentile per-packet one-way delay: 36.482 ms

Loss rate: 13.48%

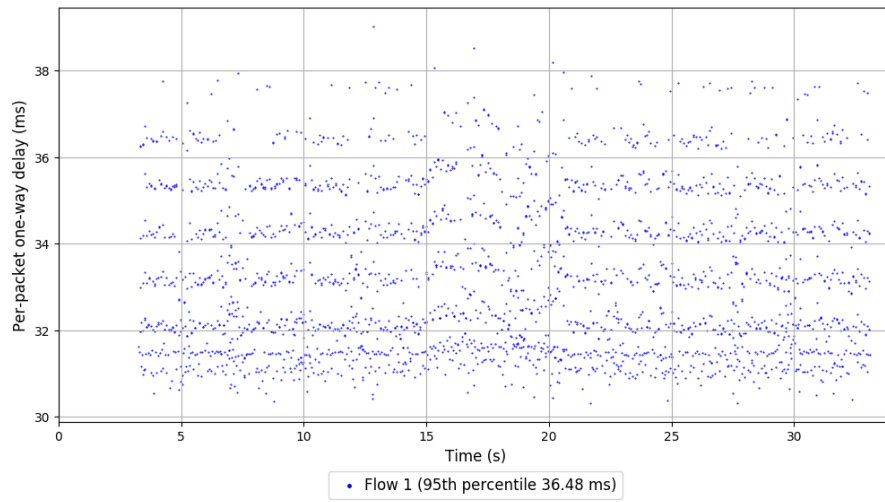
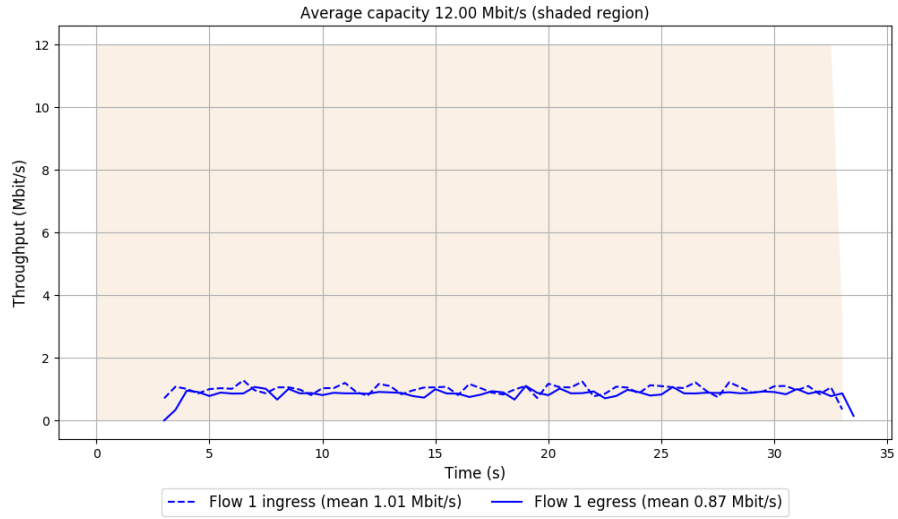
-- Flow 1:

Average throughput: 0.87 Mbit/s

95th percentile per-packet one-way delay: 36.482 ms

Loss rate: 13.48%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2020-04-16 09:20:06

End at: 2020-04-16 09:20:36

Below is generated by plot.py at 2020-04-16 09:47:47

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 0.77 Mbit/s (6.5% utilization)

95th percentile per-packet one-way delay: 36.454 ms

Loss rate: 11.54%

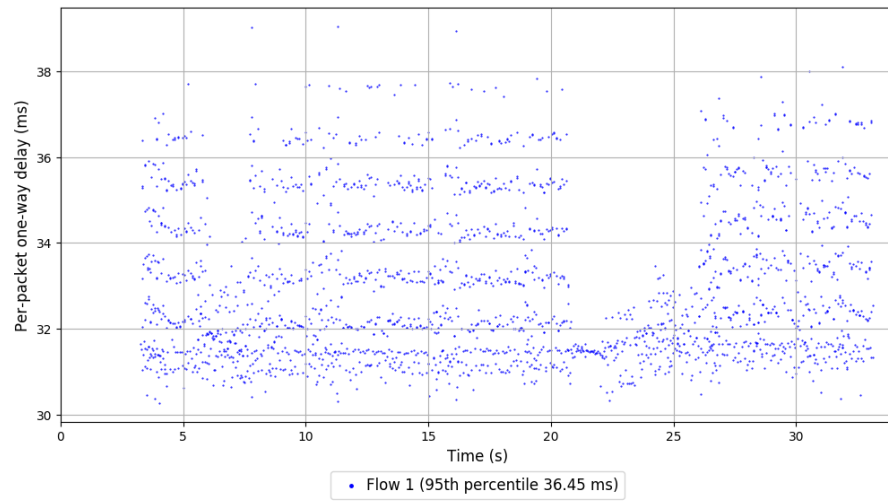
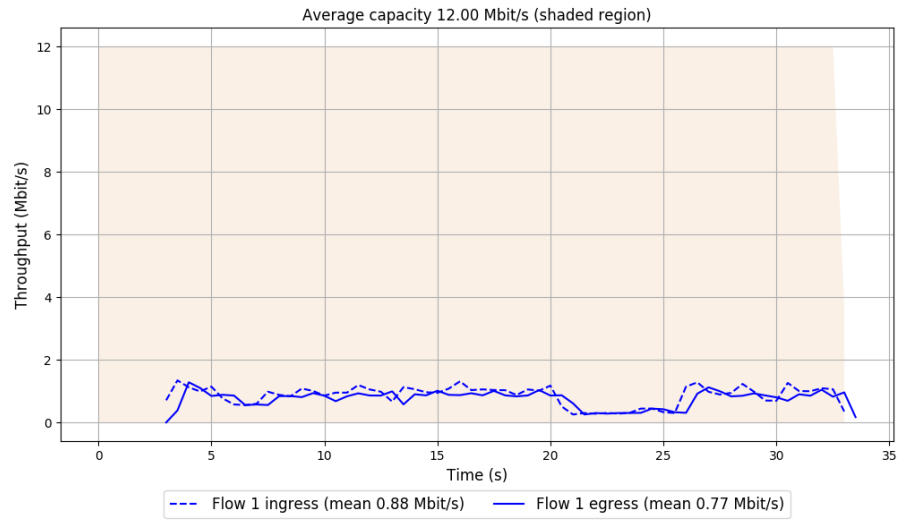
-- Flow 1:

Average throughput: 0.77 Mbit/s

95th percentile per-packet one-way delay: 36.454 ms

Loss rate: 11.54%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2020-04-16 09:34:13

End at: 2020-04-16 09:34:43

Below is generated by plot.py at 2020-04-16 09:47:47

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 0.63 Mbit/s (5.3% utilization)

95th percentile per-packet one-way delay: 36.330 ms

Loss rate: 10.10%

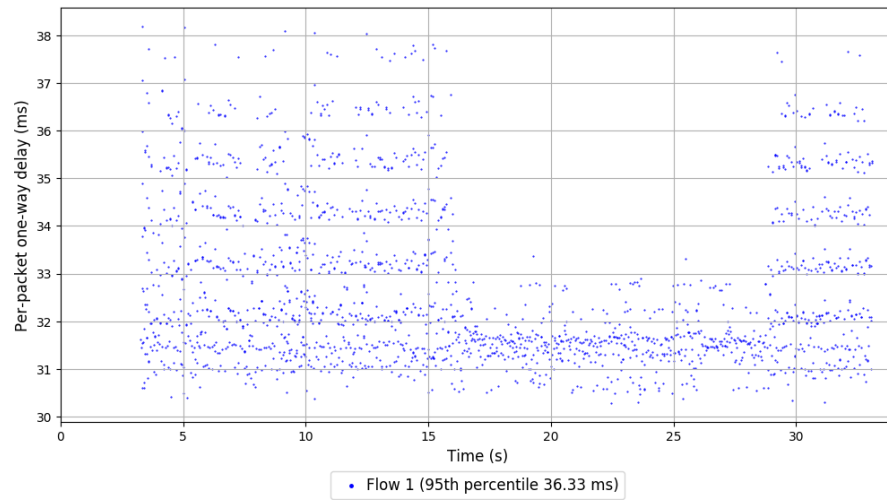
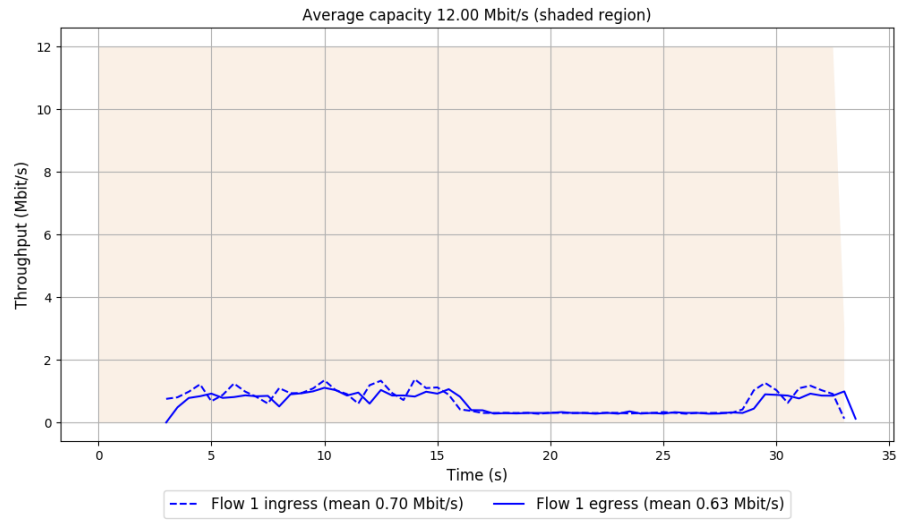
-- Flow 1:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 36.330 ms

Loss rate: 10.10%

Run 3: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2020-04-16 09:08:53

End at: 2020-04-16 09:09:23

Below is generated by plot.py at 2020-04-16 09:48:11

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.06 Mbit/s (92.2% utilization)

95th percentile per-packet one-way delay: 32.778 ms

Loss rate: 0.91%

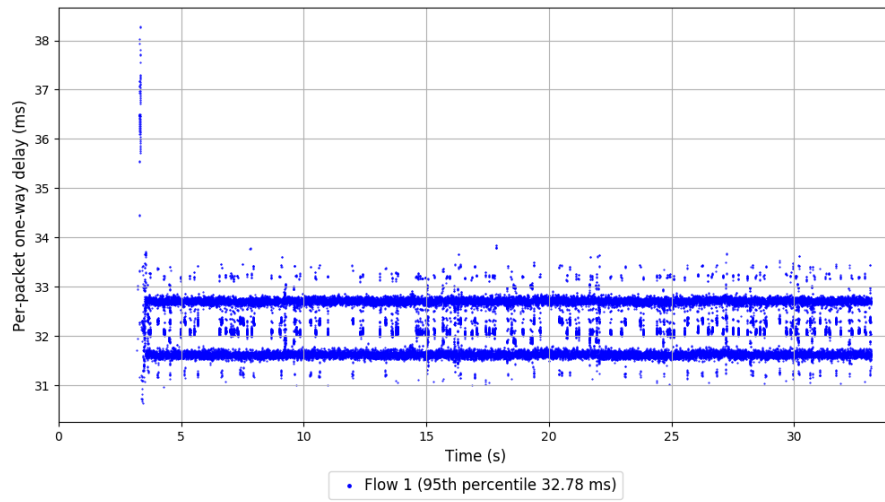
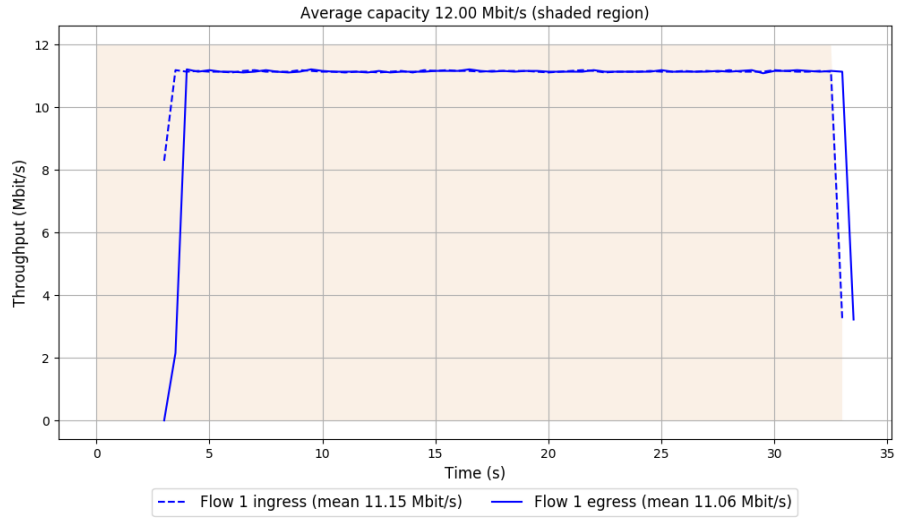
-- Flow 1:

Average throughput: 11.06 Mbit/s

95th percentile per-packet one-way delay: 32.778 ms

Loss rate: 0.91%

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



Run 2: Statistics of TaoVA-100x

Start at: 2020-04-16 09:23:01

End at: 2020-04-16 09:23:31

Below is generated by plot.py at 2020-04-16 09:48:14

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.08 Mbit/s (92.4% utilization)

95th percentile per-packet one-way delay: 32.786 ms

Loss rate: 0.78%

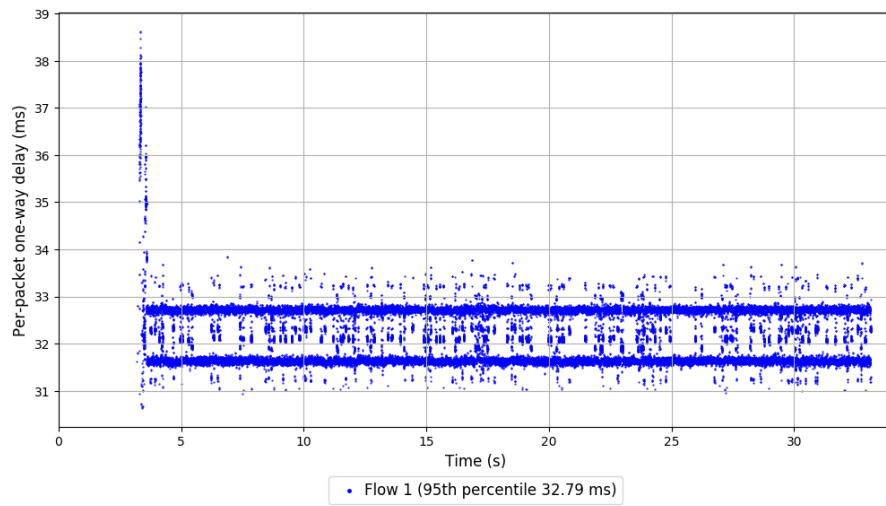
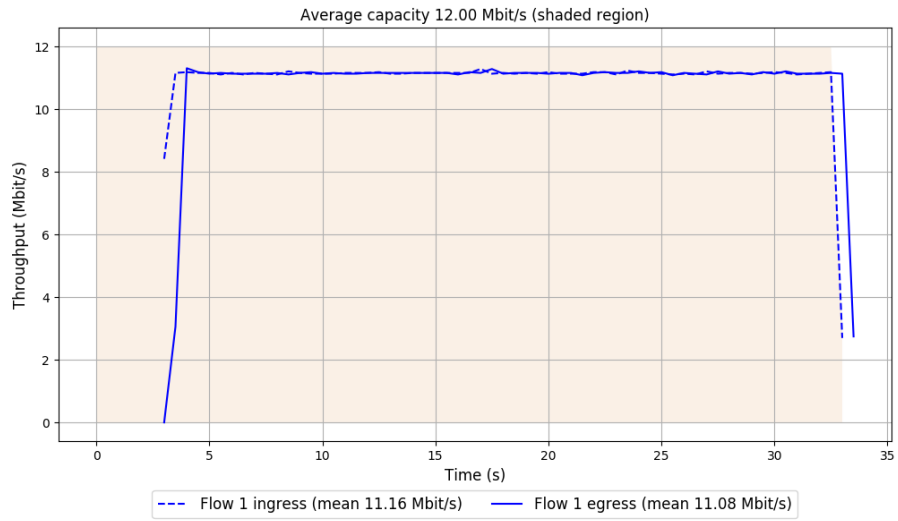
-- Flow 1:

Average throughput: 11.08 Mbit/s

95th percentile per-packet one-way delay: 32.786 ms

Loss rate: 0.78%

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



Run 3: Statistics of TaoVA-100x

Start at: 2020-04-16 09:37:09

End at: 2020-04-16 09:37:39

Below is generated by plot.py at 2020-04-16 09:48:16

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.08 Mbit/s (92.3% utilization)

95th percentile per-packet one-way delay: 32.782 ms

Loss rate: 0.78%

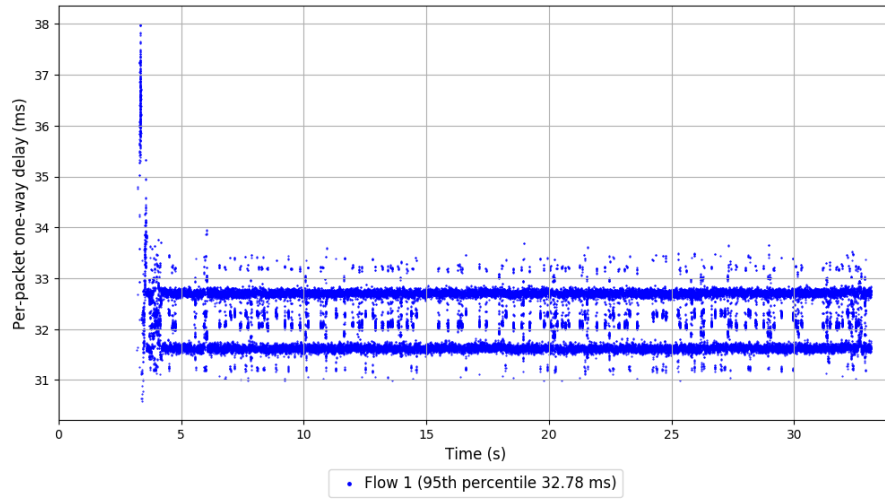
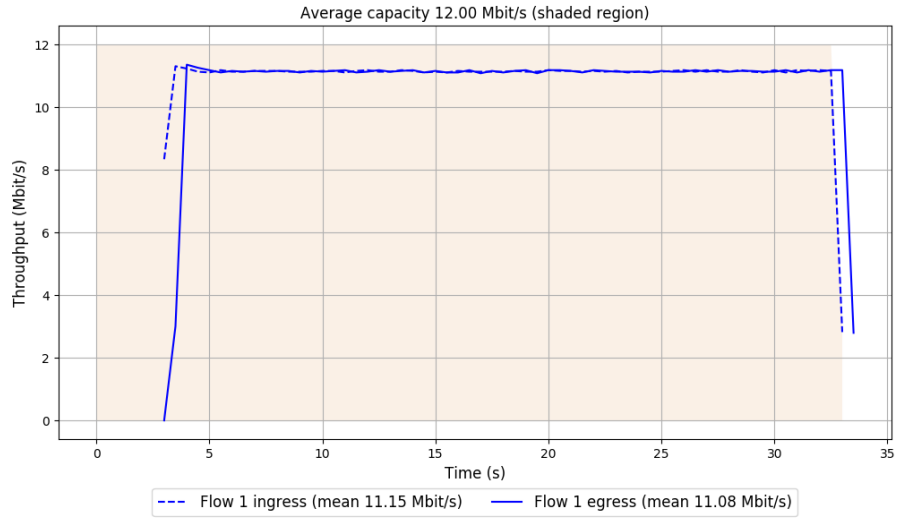
-- Flow 1:

Average throughput: 11.08 Mbit/s

95th percentile per-packet one-way delay: 32.782 ms

Loss rate: 0.78%

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



Run 1: Statistics of TCP Vegas

Start at: 2020-04-16 09:15:59

End at: 2020-04-16 09:16:29

Below is generated by plot.py at 2020-04-16 09:48:16

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 9.49 Mbit/s (79.1% utilization)

95th percentile per-packet one-way delay: 34.975 ms

Loss rate: 0.21%

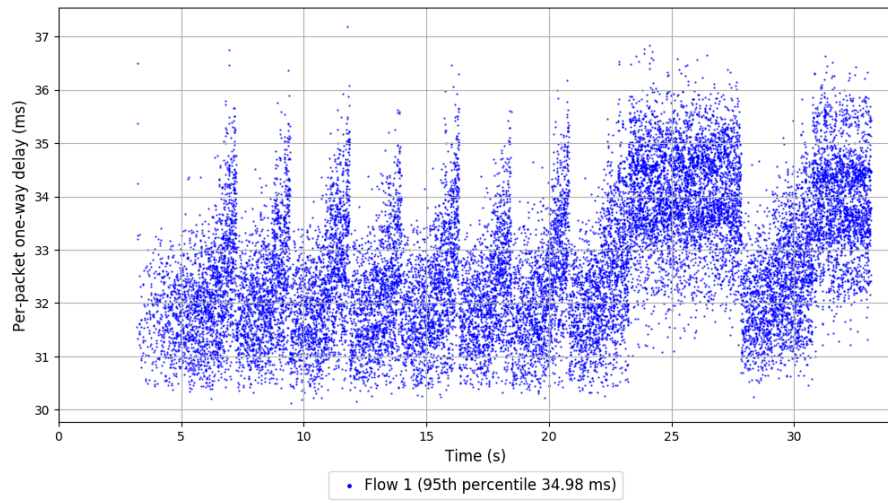
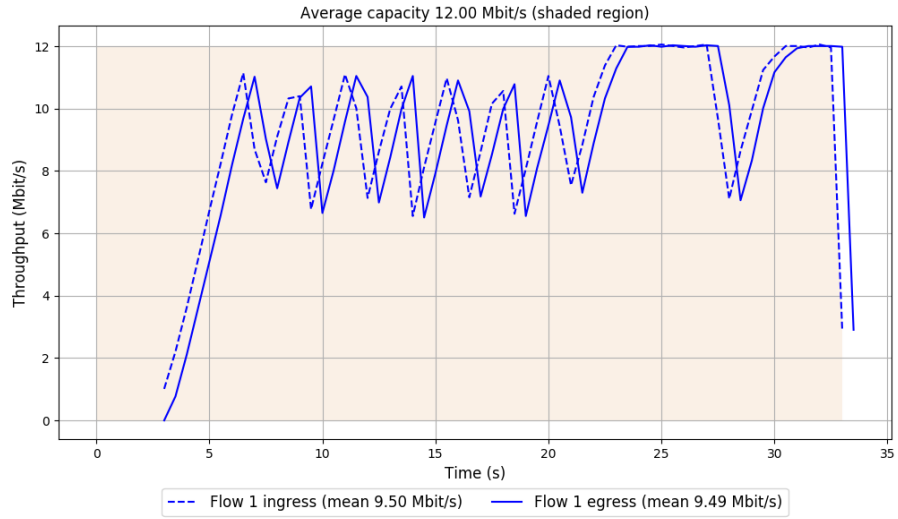
-- Flow 1:

Average throughput: 9.49 Mbit/s

95th percentile per-packet one-way delay: 34.975 ms

Loss rate: 0.21%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2020-04-16 09:30:07

End at: 2020-04-16 09:30:37

Below is generated by plot.py at 2020-04-16 09:48:16

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 9.92 Mbit/s (82.6% utilization)

95th percentile per-packet one-way delay: 35.190 ms

Loss rate: 0.19%

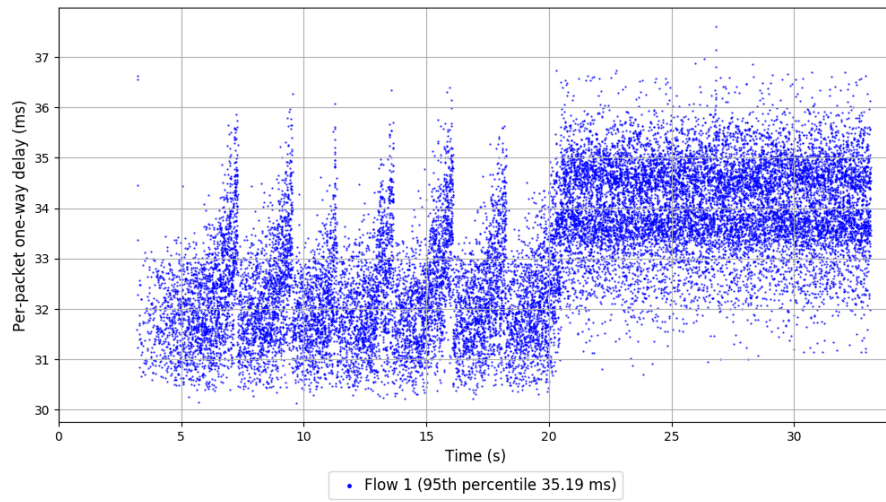
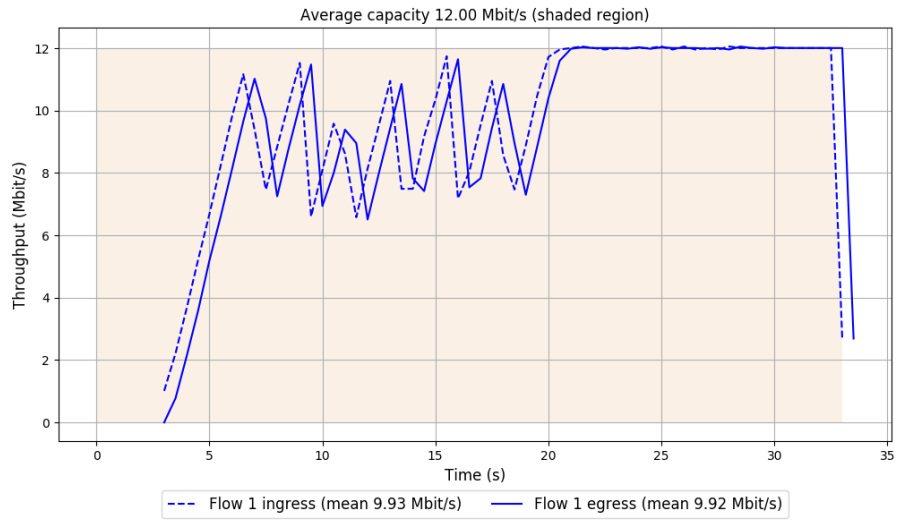
-- Flow 1:

Average throughput: 9.92 Mbit/s

95th percentile per-packet one-way delay: 35.190 ms

Loss rate: 0.19%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2020-04-16 09:44:11

End at: 2020-04-16 09:44:41

Below is generated by plot.py at 2020-04-16 09:48:16

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 8.58 Mbit/s (71.5% utilization)

95th percentile per-packet one-way delay: 34.105 ms

Loss rate: 0.23%

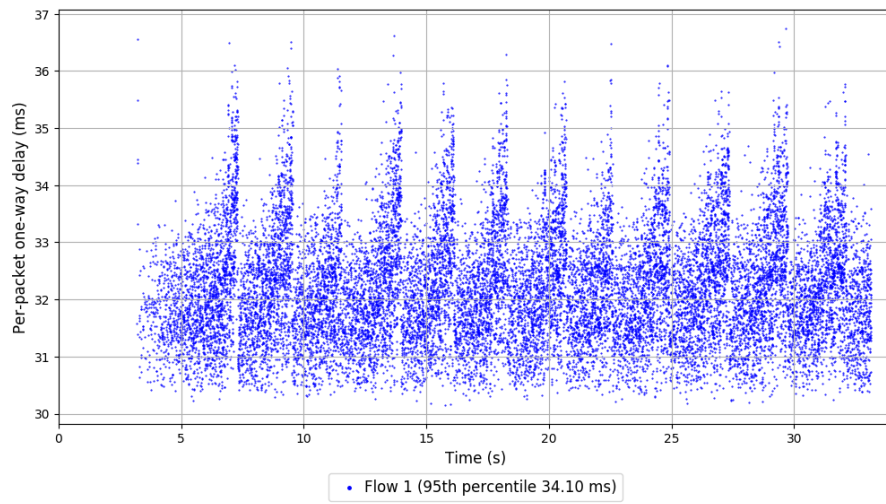
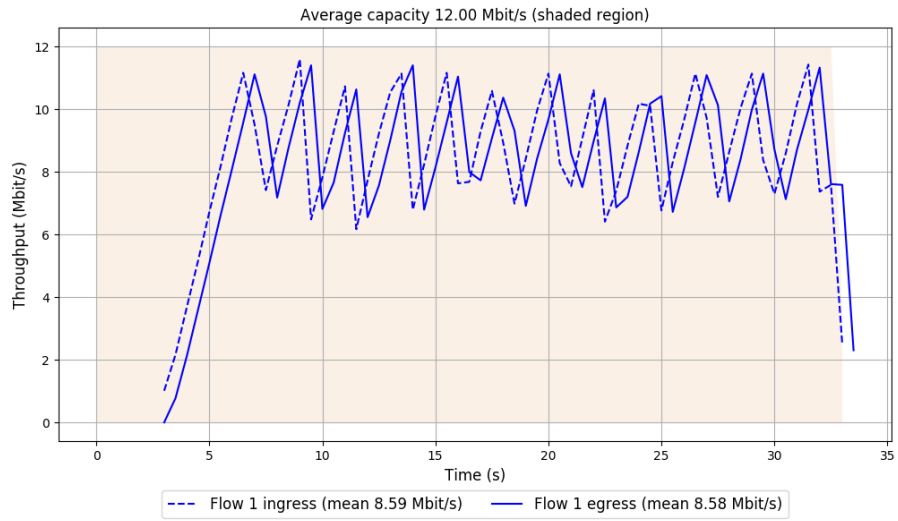
-- Flow 1:

Average throughput: 8.58 Mbit/s

95th percentile per-packet one-way delay: 34.105 ms

Loss rate: 0.23%

Run 3: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2020-04-16 09:13:35

End at: 2020-04-16 09:14:05

Below is generated by plot.py at 2020-04-16 09:48:35

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 4.72 Mbit/s (39.3% utilization)

95th percentile per-packet one-way delay: 38.069 ms

Loss rate: 98.22%

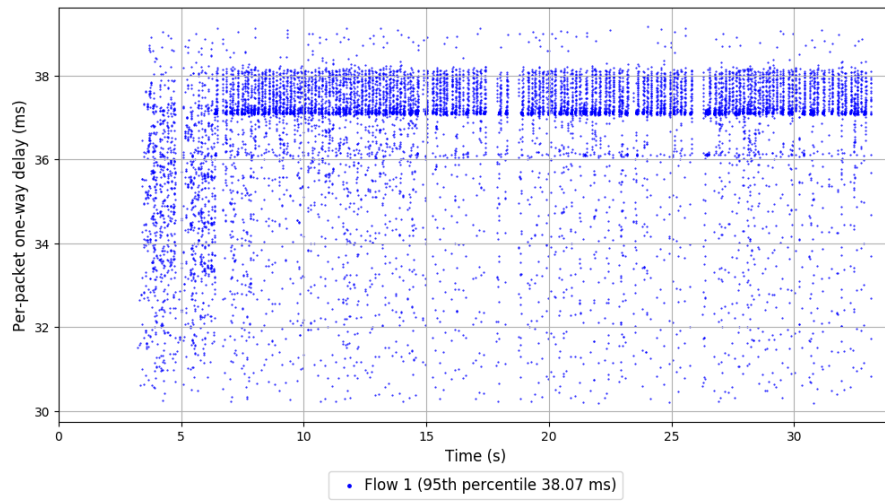
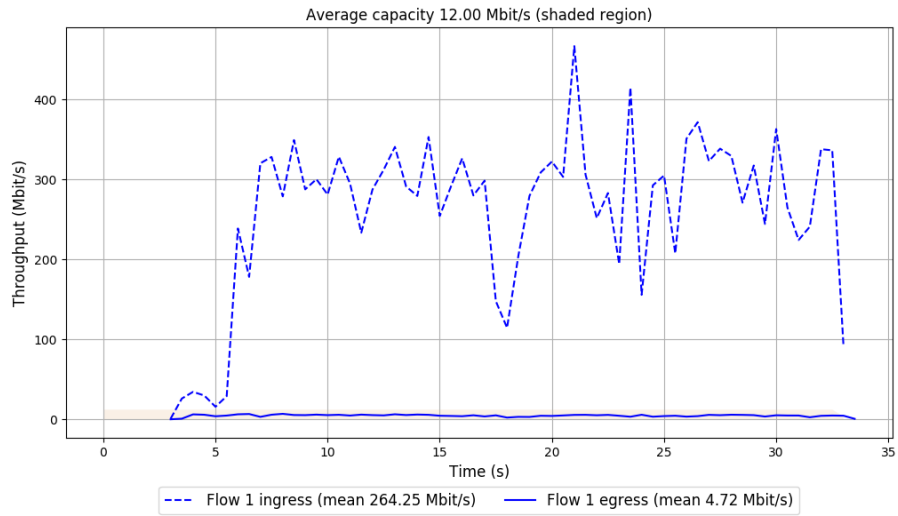
-- Flow 1:

Average throughput: 4.72 Mbit/s

95th percentile per-packet one-way delay: 38.069 ms

Loss rate: 98.22%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2020-04-16 09:27:44

End at: 2020-04-16 09:28:14

Below is generated by plot.py at 2020-04-16 09:48:35

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 4.86 Mbit/s (40.5% utilization)

95th percentile per-packet one-way delay: 38.002 ms

Loss rate: 97.12%

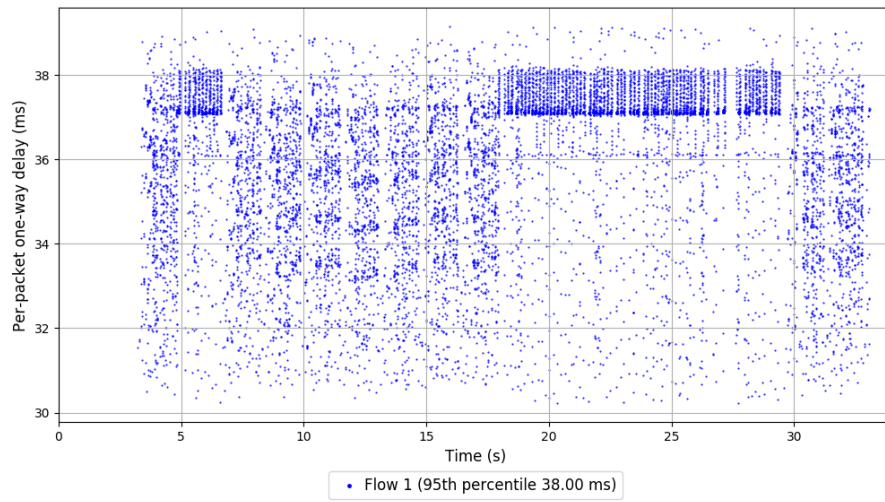
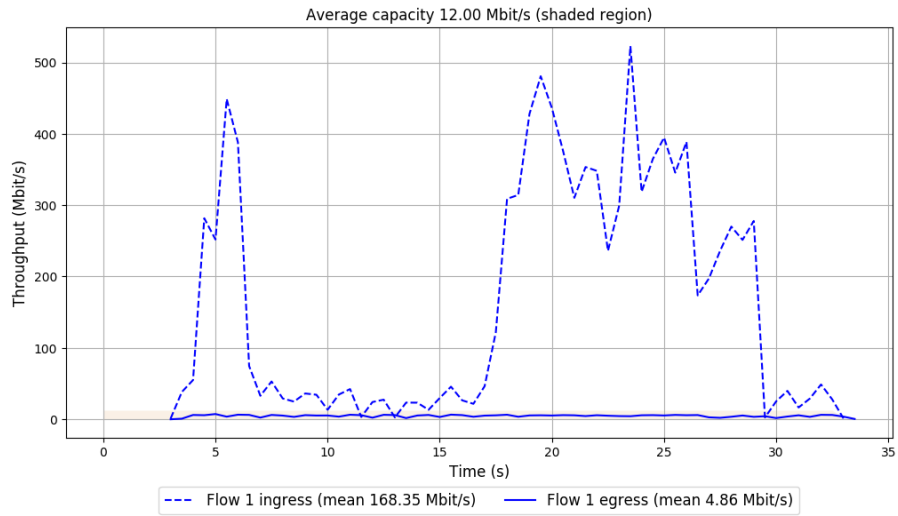
-- Flow 1:

Average throughput: 4.86 Mbit/s

95th percentile per-packet one-way delay: 38.002 ms

Loss rate: 97.12%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2020-04-16 09:41:50

End at: 2020-04-16 09:42:20

Below is generated by plot.py at 2020-04-16 09:48:35

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 5.06 Mbit/s (42.2% utilization)

95th percentile per-packet one-way delay: 37.870 ms

Loss rate: 90.52%

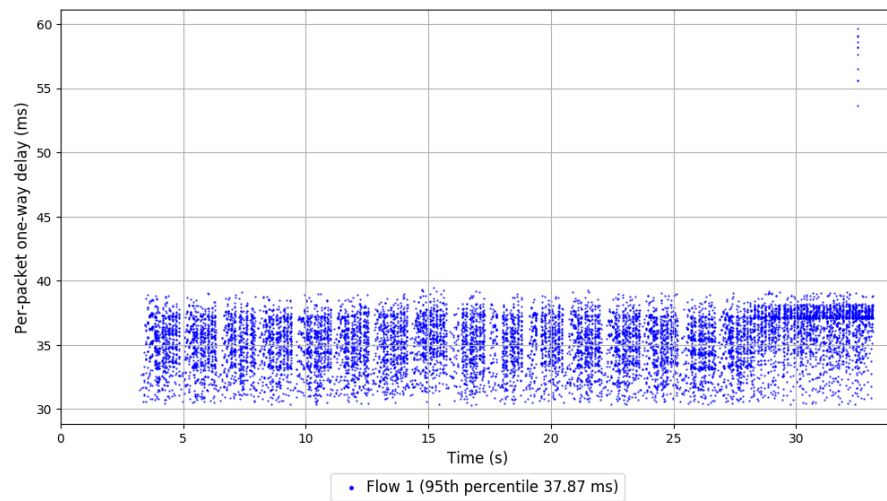
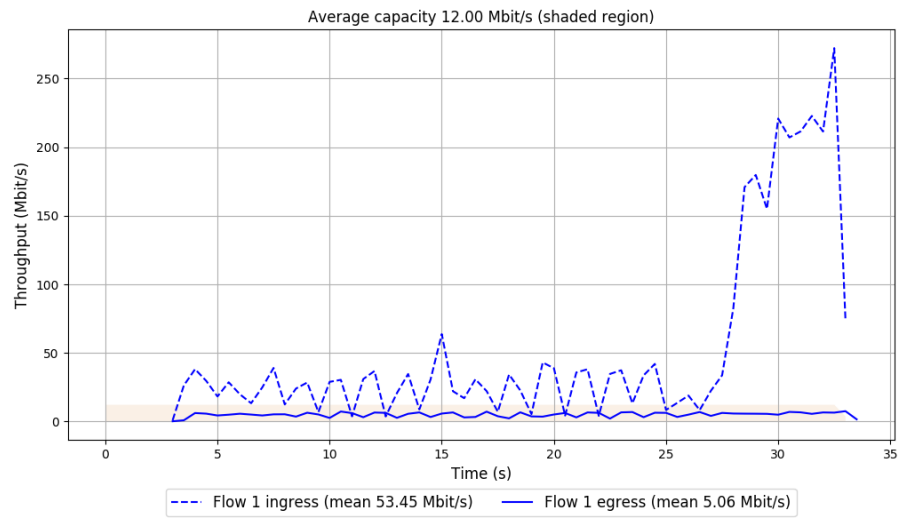
-- Flow 1:

Average throughput: 5.06 Mbit/s

95th percentile per-packet one-way delay: 37.870 ms

Loss rate: 90.52%

Run 3: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2020-04-16 09:06:32

End at: 2020-04-16 09:07:02

Below is generated by plot.py at 2020-04-16 09:48:35

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.02 Mbit/s (91.9% utilization)

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

Loss rate: 0.28%

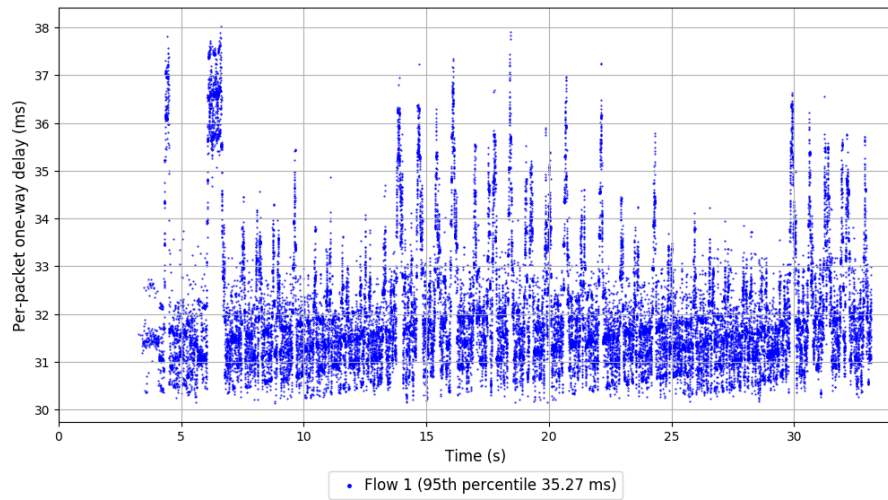
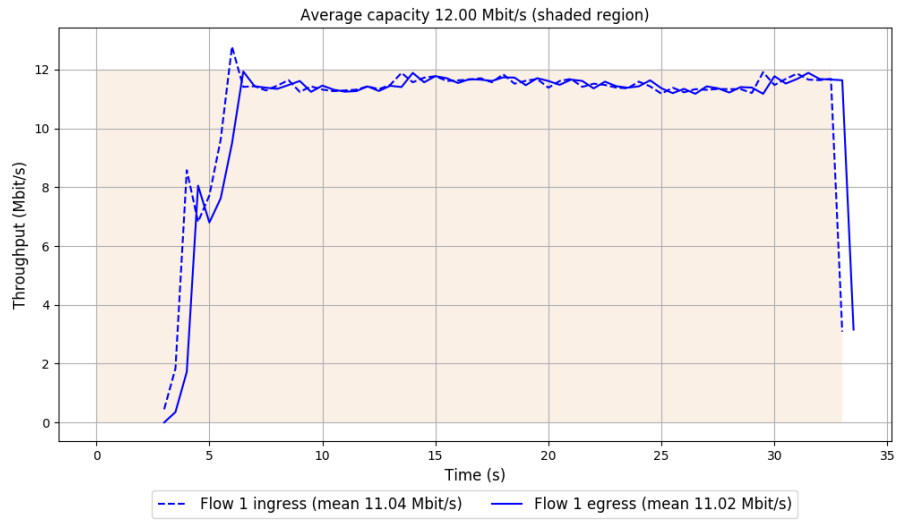
-- Flow 1:

Average throughput: 11.02 Mbit/s

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

Loss rate: 0.28%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2020-04-16 09:20:40

End at: 2020-04-16 09:21:10

Below is generated by plot.py at 2020-04-16 09:48:35

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.96 Mbit/s (91.3% utilization)

95th percentile per-packet one-way delay: 34.833 ms

Loss rate: 0.28%

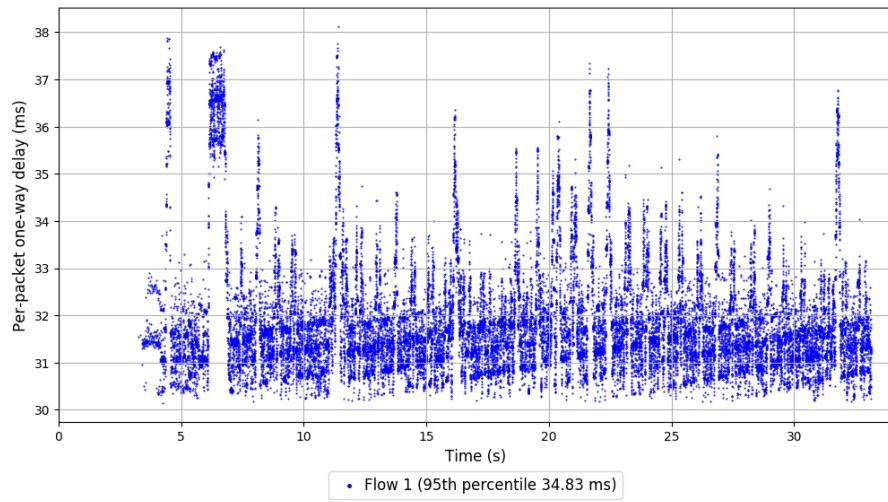
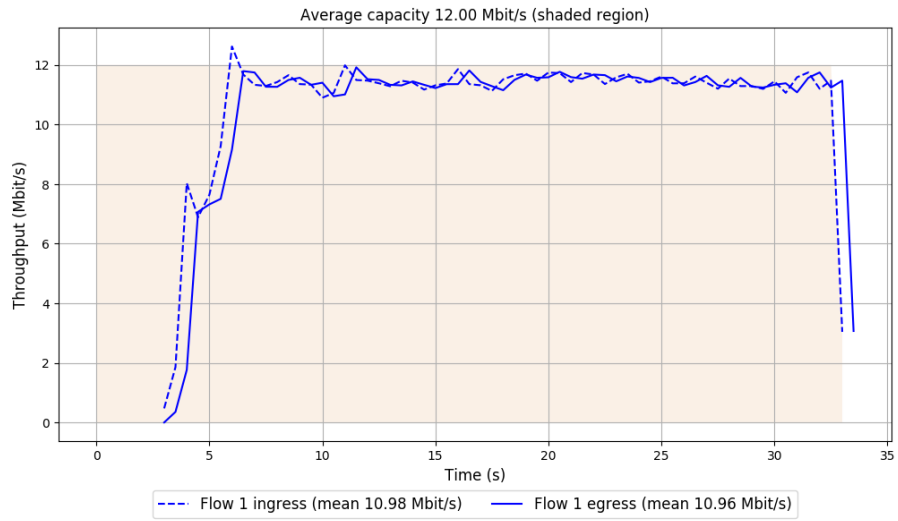
-- Flow 1:

Average throughput: 10.96 Mbit/s

95th percentile per-packet one-way delay: 34.833 ms

Loss rate: 0.28%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2020-04-16 09:34:48

End at: 2020-04-16 09:35:18

Below is generated by plot.py at 2020-04-16 09:48:35

Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.03 Mbit/s (91.9% utilization)

95th percentile per-packet one-way delay: 35.473 ms

Loss rate: 0.27%

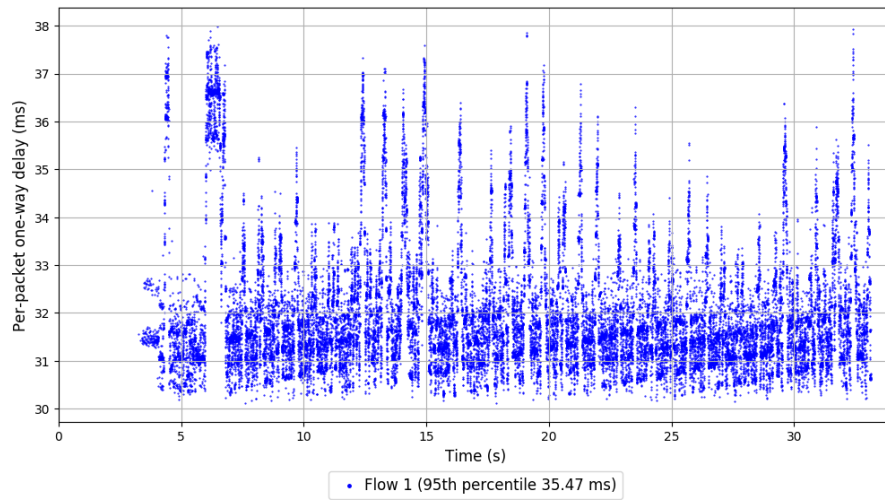
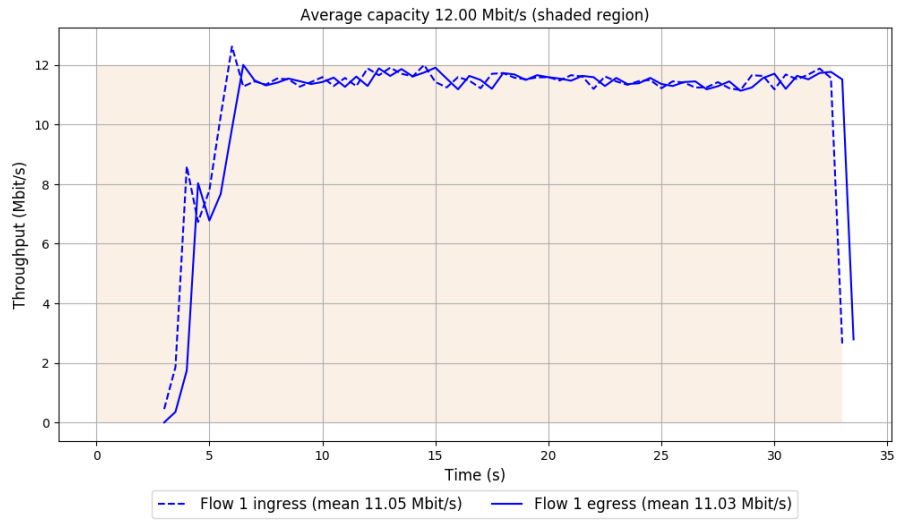
-- Flow 1:

Average throughput: 11.03 Mbit/s

95th percentile per-packet one-way delay: 35.473 ms

Loss rate: 0.27%

Run 3: Report of PCC-Vivace — Data Link

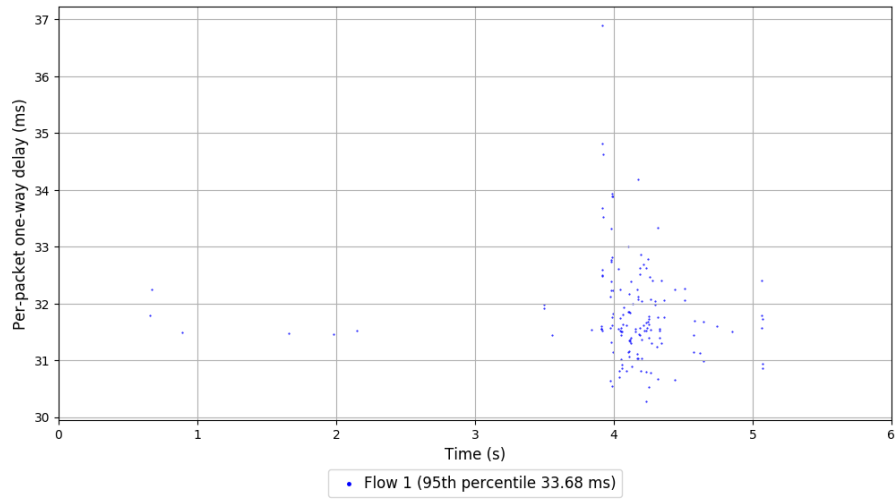
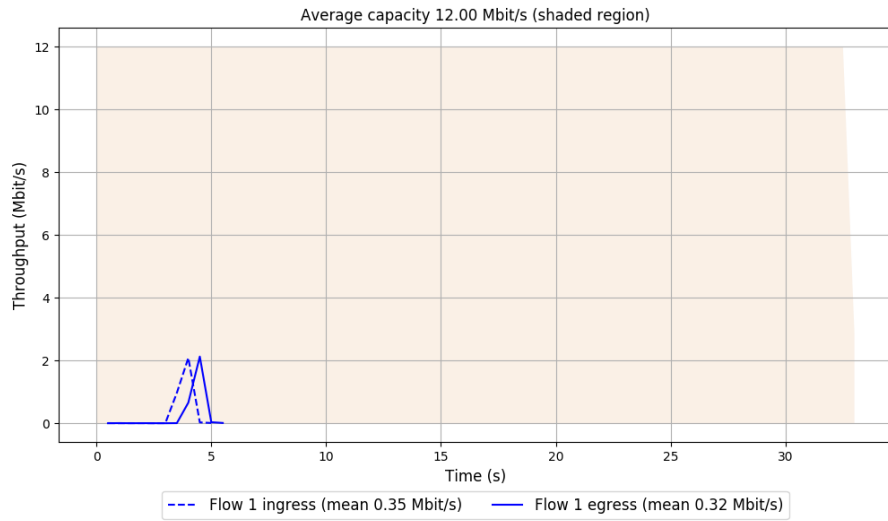


Run 1: Statistics of WebRTC media

Start at: 2020-04-16 09:13:00

End at: 2020-04-16 09:13:30

Run 1: Report of WebRTC media — Data Link

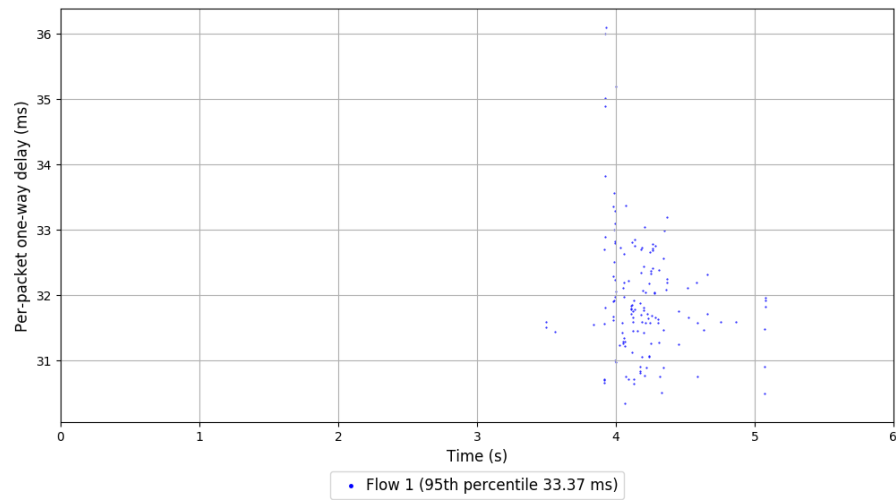
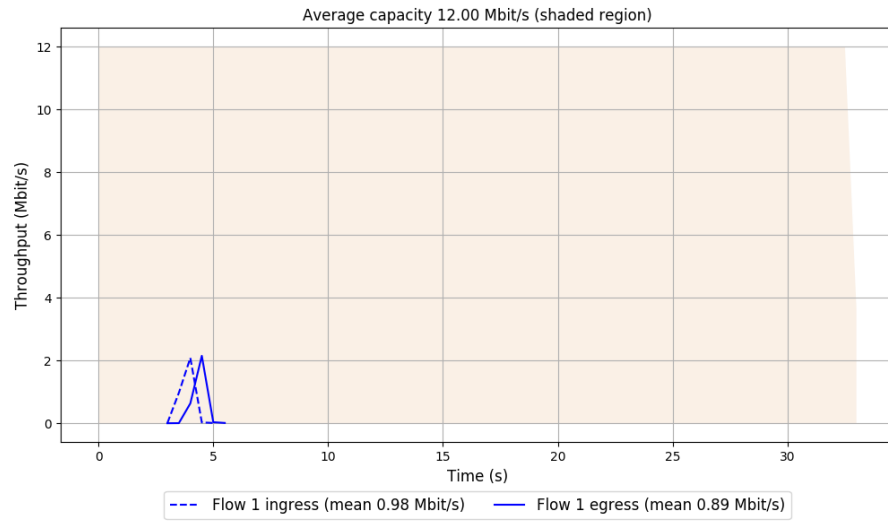


Run 2: Statistics of WebRTC media

Start at: 2020-04-16 09:27:09

End at: 2020-04-16 09:27:39

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2020-04-16 09:41:15

End at: 2020-04-16 09:41:45

Run 3: Report of WebRTC media — Data Link

