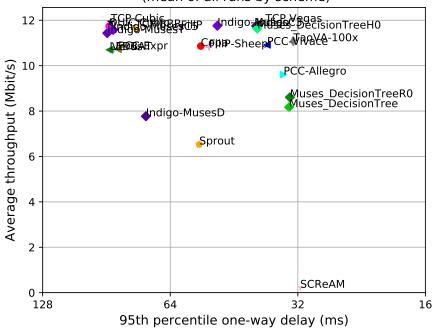
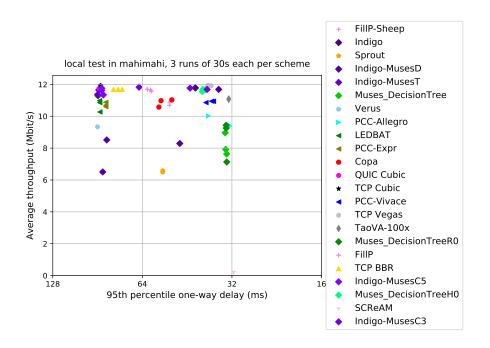
Pantheon Report

```
Generated at 2020-04-16 09:48:45 (UTC).
  Tested in mahimahi: mm-delay 30 mm-link 12mbps.trace 12mbps.trace
--uplink-queue=droptail --uplink-queue-args=bytes=90000
   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 @ d0153f8e594aa89e93b032143cedbdfe58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
\verb|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-quic @ 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)





	Indigo-MusesD	3	7.77	73.06
	Indigo-MusesT	3	11.43	90.12
	LEDBAT	3	10.70	89.01
	$Muses_DecisionTree$	3	8.17	33.54
דכ	$Muses_DecisionTreeH0$	3	11.63	39.89
	$Muses_DecisionTreeR0$	3	8.61	33.41
	PCC-Allegro	3	9.61	34.58
	PCC-Expr	3	10.72	84.94

runs

3

3

3

3

3

3

3

3

3

3

3

3

3

3

3

0

scheme

TCP BBR

Copa

TCP Cubic

FillP

FillP-Sheep

Indigo

Indigo-MusesC3

Indigo-MusesC5

QUIC Cubic

SCReAM

Sprout

TaoVA-100x

TCP Vegas

Verus

PCC-Vivace

WebRTC media

mean avg tput (Mbit/s)

flow 1

11.69

10.86

11.93

11.64

10.81

11.75

11.76

11.57

11.74

0.21

6.53

11.08

11.93

10.68

10.91

N/A

mean 95th-%ile delay (ms)

flow 1

77.34

54.22

88.41

60.43

51.84

40.13

49.55

87.26

89.30

31.59

54.67

32.80

38.17

87.91

37.82

N/A

mean loss rate (%)

flow 1

0.66

0.19

0.39

0.83

0.79

0.13

0.20

8.33

1.58 11.06 0.28 0.11

0.13 0.11 0.87 0.25

0.89

0.09

0.15

0.43

0.34

31.27

0.11

N/A

Run 1: Statistics of TCP BBR

Start at: 2020-04-16 09:15:22 End at: 2020-04-16 09:15:52

Below is generated by plot.py at 2020-04-16 09:45:26

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.69 Mbit/s (97.4% utilization) 95th percentile per-packet one-way delay: 80.041 ms

Loss rate: 0.67%

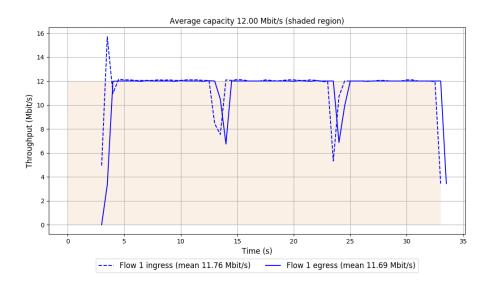
-- Flow 1:

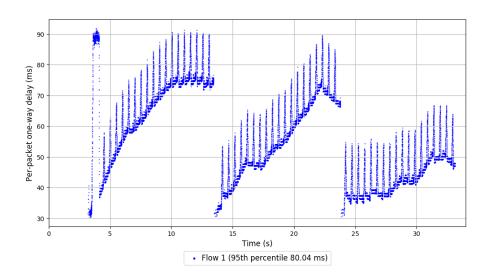
Average throughput: 11.69 Mbit/s

95th percentile per-packet one-way delay: 80.041 ms

Loss rate: 0.67%

Run 1: Report of TCP BBR — Data Link





Run 2: Statistics of TCP BBR

Start at: 2020-04-16 09:29:30 End at: 2020-04-16 09:30:00

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: 11.69 Mbit/s (97.4% utilization) 95th percentile per-packet one-way delay: 77.167 ms

Loss rate: 0.64%

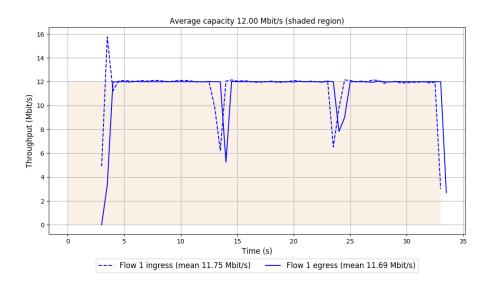
-- Flow 1:

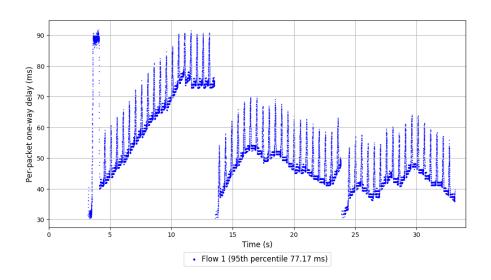
Average throughput: 11.69 Mbit/s

95th percentile per-packet one-way delay: 77.167 ms

Loss rate: 0.64%

Run 2: Report of TCP BBR — Data Link





Run 3: Statistics of TCP BBR

Start at: 2020-04-16 09:43:37 End at: 2020-04-16 09:44:07

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: 11.69 Mbit/s (97.4% utilization) 95th percentile per-packet one-way delay: 74.803 ms

Loss rate: 0.68%

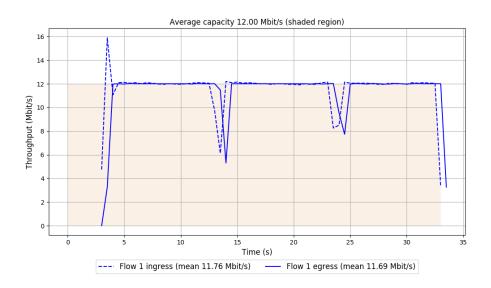
-- Flow 1:

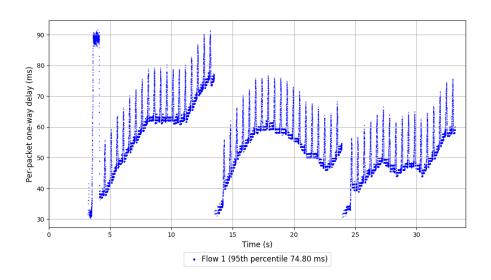
Average throughput: 11.69 Mbit/s

95th percentile per-packet one-way delay: 74.803 ms

Loss rate: 0.68%

Run 3: Report of TCP BBR — Data Link





Run 1: Statistics of Copa

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 09:45:40

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.97~Mbit/s (91.5%~utilization) 95th percentile per-packet one-way delay: 55.391~ms

Loss rate: 0.37%

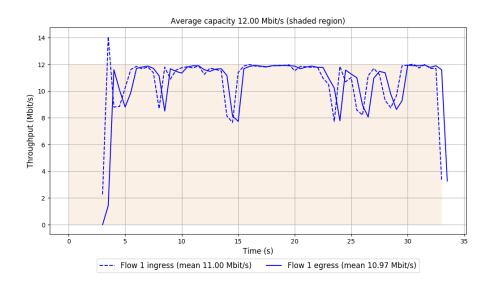
-- Flow 1:

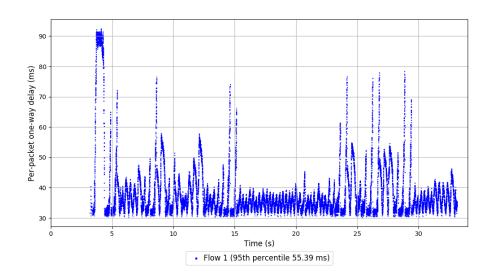
Average throughput: 10.97 Mbit/s

95th percentile per-packet one-way delay: 55.391 ms

Loss rate: 0.37%

Run 1: Report of Copa — Data Link





Run 2: Statistics of Copa

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 09:45:40

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.58 Mbit/s (88.1% utilization) 95th percentile per-packet one-way delay: 56.318 ms

Loss rate: 0.09%

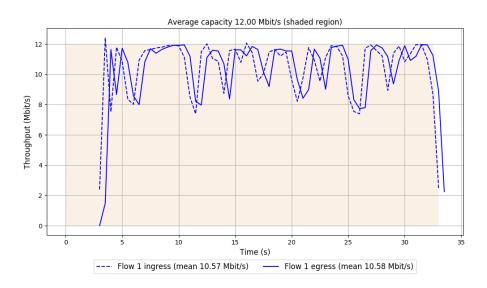
-- Flow 1:

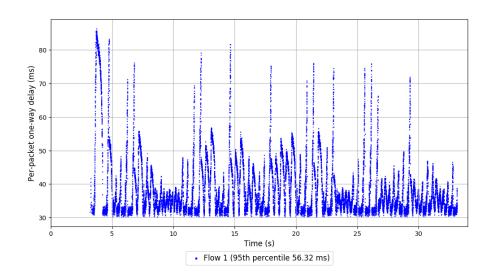
Average throughput: 10.58 Mbit/s

95th percentile per-packet one-way delay: 56.318 ms

Loss rate: 0.09%

Run 2: Report of Copa — Data Link





Run 3: Statistics of Copa

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 09:45:41

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: 50.954~ms

Loss rate: 0.12%

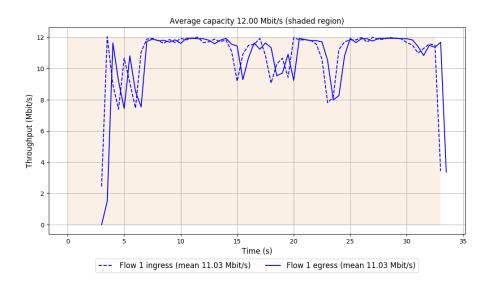
-- Flow 1:

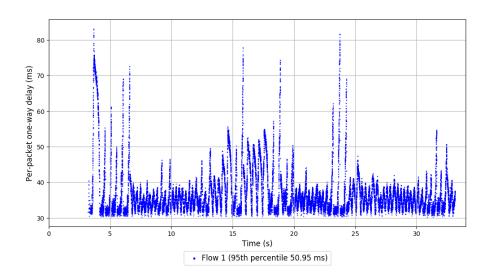
Average throughput: 11.03 Mbit/s

95th percentile per-packet one-way delay: 50.954 ms

Loss rate: 0.12%

Run 3: Report of Copa — Data Link





Run 1: Statistics of TCP Cubic

Start at: 2020-04-16 09:09:30 End at: 2020-04-16 09:10:00

Below is generated by plot.py at 2020-04-16 09:45:41

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.93 Mbit/s (99.4% utilization) 95th percentile per-packet one-way delay: 88.283 ms

Loss rate: 0.44%

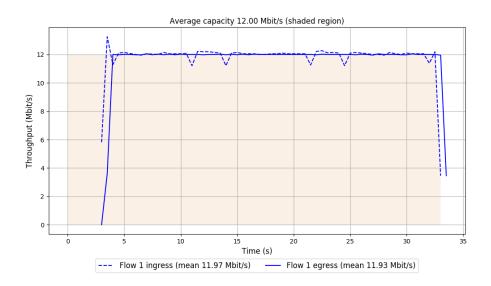
-- Flow 1:

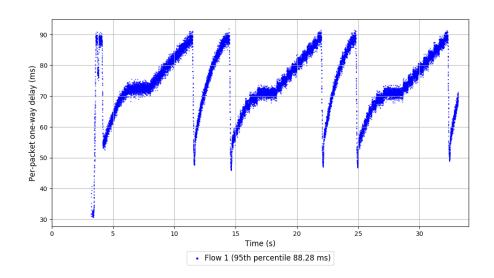
Average throughput: 11.93 Mbit/s

95th percentile per-packet one-way delay: 88.283 ms

Loss rate: 0.44%

Run 1: Report of TCP Cubic — Data Link





Run 2: Statistics of TCP Cubic

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 09:45:41

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.93 Mbit/s (99.4% utilization) 95th percentile per-packet one-way delay: 88.683 ms

Loss rate: 0.28%

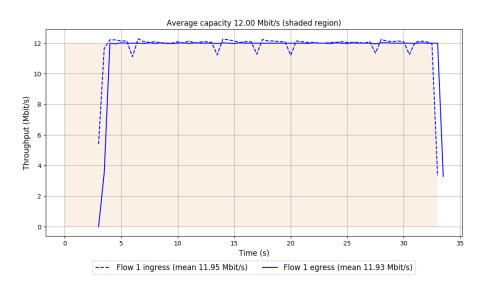
-- Flow 1:

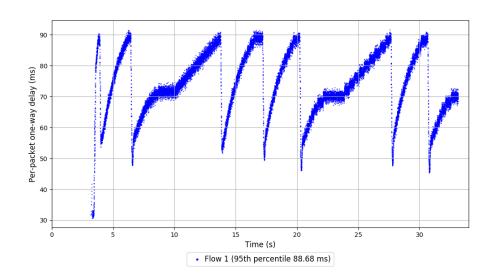
Average throughput: 11.93 Mbit/s

95th percentile per-packet one-way delay: 88.683 ms

Loss rate: 0.28%

Run 2: Report of TCP Cubic — Data Link





Run 3: Statistics of TCP Cubic

Start at: 2020-04-16 09:37:45 End at: 2020-04-16 09:38:15

Below is generated by plot.py at 2020-04-16 09:45:51

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.93 Mbit/s (99.4% utilization) 95th percentile per-packet one-way delay: 88.255 ms

Loss rate: 0.44%

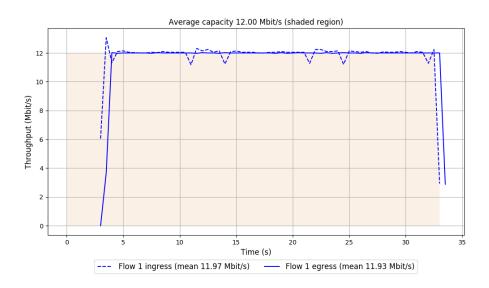
-- Flow 1:

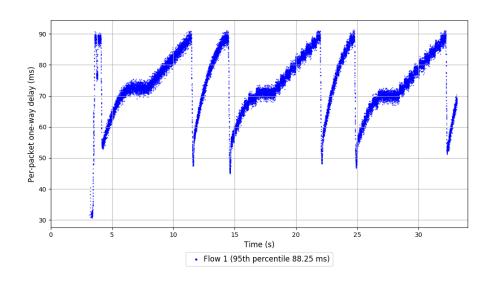
Average throughput: 11.93 Mbit/s

95th percentile per-packet one-way delay: 88.255 ms

Loss rate: 0.44%

Run 3: Report of TCP Cubic — Data Link





Run 1: Statistics of FillP

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 09:45:56

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: 60.034 ms

Loss rate: 0.83%

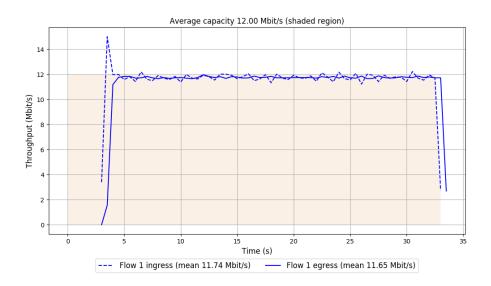
-- Flow 1:

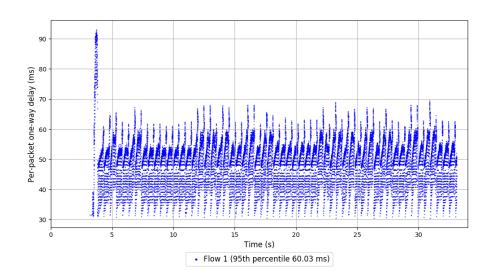
Average throughput: 11.65 Mbit/s

95th percentile per-packet one-way delay: 60.034 ms

Loss rate: 0.83%

Run 1: Report of FillP — Data Link





Run 2: Statistics of FillP

Start at: 2020-04-16 09:16:33 End at: 2020-04-16 09:17:03

Below is generated by plot.py at 2020-04-16 09:45:57

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.69 Mbit/s (97.4% utilization) 95th percentile per-packet one-way delay: 61.571 ms

Loss rate: 0.87%

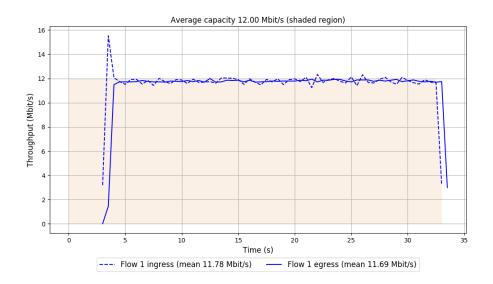
-- Flow 1:

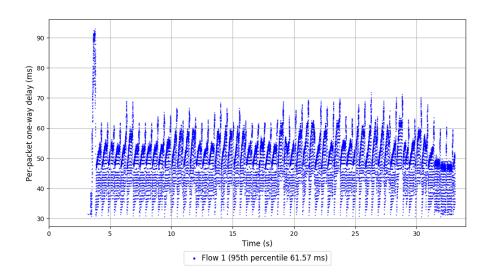
Average throughput: 11.69 Mbit/s

95th percentile per-packet one-way delay: 61.571 ms

Loss rate: 0.87%

Run 2: Report of FillP — Data Link





Run 3: Statistics of FillP

Start at: 2020-04-16 09:30:41 End at: 2020-04-16 09:31:11

Below is generated by plot.py at 2020-04-16 09:45:57

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.57 Mbit/s (96.4% utilization) 95th percentile per-packet one-way delay: 59.687 ms

Loss rate: 0.80%

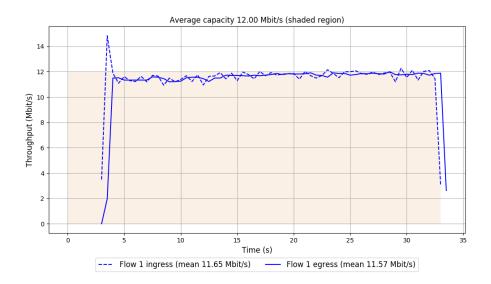
-- Flow 1:

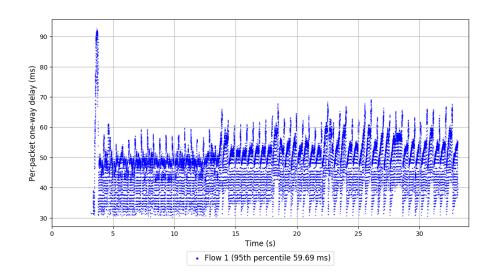
Average throughput: 11.57 Mbit/s

95th percentile per-packet one-way delay: 59.687 ms

Loss rate: 0.80%

Run 3: Report of FillP — Data Link





Run 1: Statistics of FillP-Sheep

Start at: 2020-04-16 09:10:05 End at: 2020-04-16 09:10:35

Below is generated by plot.py at 2020-04-16 09:45:57

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.87 Mbit/s (90.6% utilization) 95th percentile per-packet one-way delay: 51.624 ms

Loss rate: 0.79%

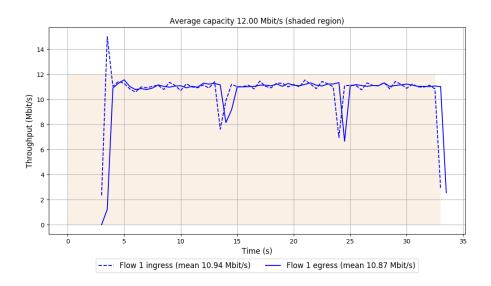
-- Flow 1:

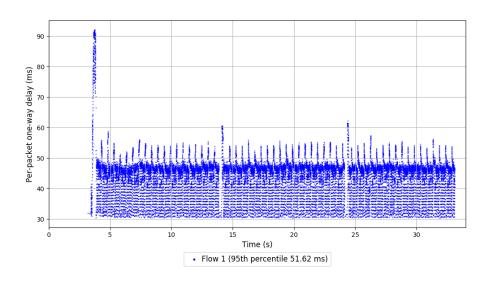
Average throughput: 10.87 Mbit/s

95th percentile per-packet one-way delay: 51.624 ms

Loss rate: 0.79%

Run 1: Report of FillP-Sheep — Data Link





Run 2: Statistics of FillP-Sheep

Start at: 2020-04-16 09:24:12 End at: 2020-04-16 09:24:42

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: 10.88 Mbit/s (90.6% utilization) 95th percentile per-packet one-way delay: 51.947 ms

Loss rate: 0.75%

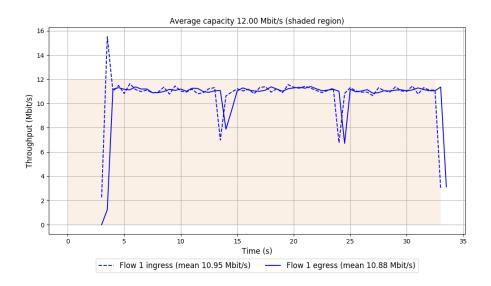
-- Flow 1:

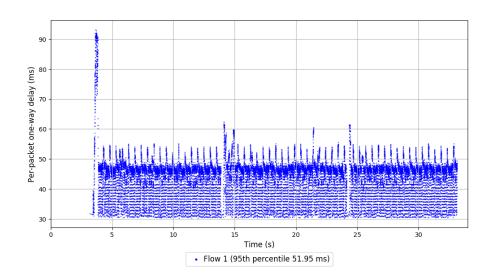
Average throughput: 10.88 Mbit/s

95th percentile per-packet one-way delay: 51.947 ms

Loss rate: 0.75%

Run 2: Report of FillP-Sheep — Data Link





Run 3: Statistics of FillP-Sheep

Start at: 2020-04-16 09:38:20 End at: 2020-04-16 09:38:50

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: 10.68 Mbit/s (89.0% utilization) 95th percentile per-packet one-way delay: 51.934 ms

Loss rate: 0.82%

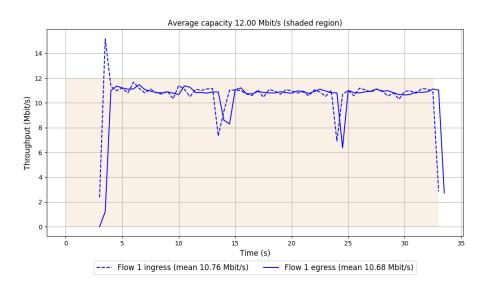
-- Flow 1:

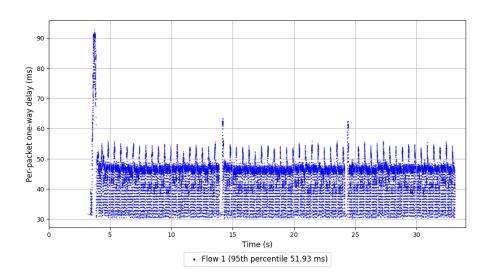
Average throughput: 10.68 Mbit/s

95th percentile per-packet one-way delay: 51.934 ms

Loss rate: 0.82%

Run 3: Report of FillP-Sheep — Data Link





Run 1: Statistics of Indigo

Start at: 2020-04-16 09:06:33 End at: 2020-04-16 09:07:03

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: 11.78~Mbit/s (98.2%~utilization) 95th percentile per-packet one-way delay: 42.486~ms

Loss rate: 0.13%

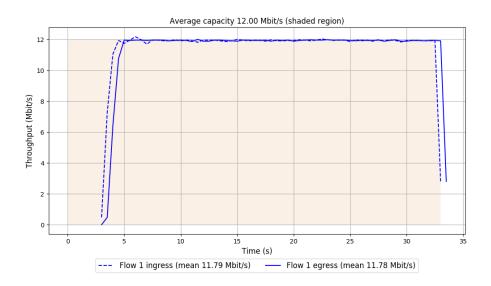
-- Flow 1:

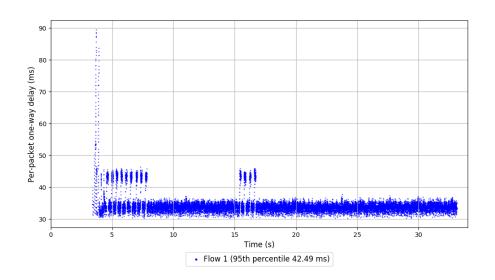
Average throughput: 11.78 Mbit/s

95th percentile per-packet one-way delay: 42.486 ms

Loss rate: 0.13%

Run 1: Report of Indigo — Data Link





Run 2: Statistics of Indigo

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 09:46:14

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.69 Mbit/s (97.4% utilization) 95th percentile per-packet one-way delay: 35.447 ms

Loss rate: 0.13%

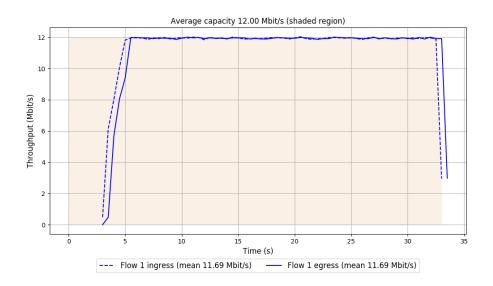
-- Flow 1:

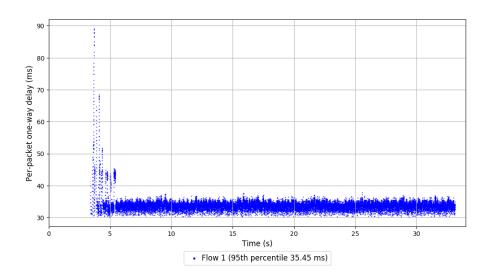
Average throughput: 11.69 Mbit/s

95th percentile per-packet one-way delay: 35.447 ms

Loss rate: 0.13%

Run 2: Report of Indigo — Data Link





Run 3: Statistics of Indigo

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 09:46:19

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.77 Mbit/s (98.1% utilization) 95th percentile per-packet one-way delay: 42.452 ms

Loss rate: 0.13%

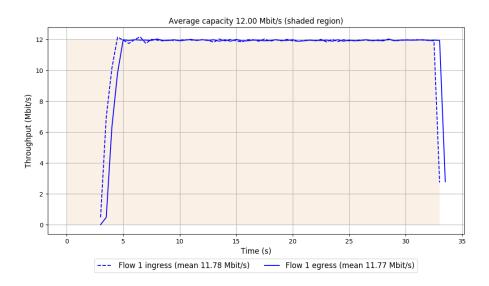
-- Flow 1:

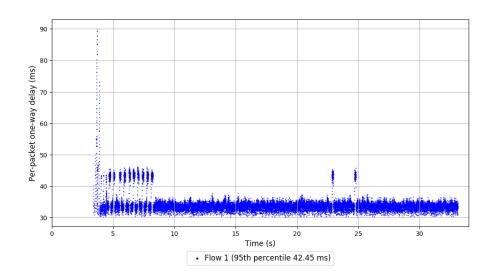
Average throughput: 11.77 Mbit/s

95th percentile per-packet one-way delay: 42.452 ms

Loss rate: 0.13%

Run 3: Report of Indigo — Data Link





Run 1: Statistics of Indigo-MusesC3

Start at: 2020-04-16 09:08:19 End at: 2020-04-16 09:08:49

Below is generated by plot.py at 2020-04-16 09:46:20

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.82 Mbit/s (98.5% utilization) 95th percentile per-packet one-way delay: 65.642 ms

Loss rate: 0.27%

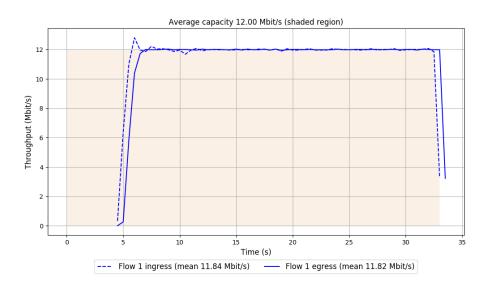
-- Flow 1:

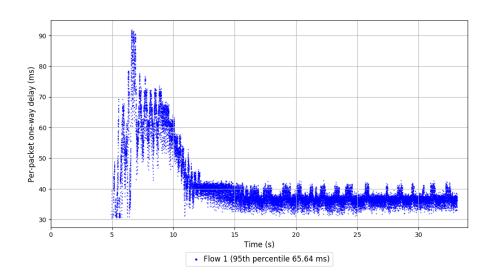
Average throughput: 11.82 Mbit/s

95th percentile per-packet one-way delay: 65.642 ms

Loss rate: 0.27%

Run 1: Report of Indigo-MusesC3 — Data Link





Run 2: Statistics of Indigo-MusesC3

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 09:46:22

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.77 Mbit/s (98.0% utilization) 95th percentile per-packet one-way delay: 44.233 ms

Loss rate: 0.22%

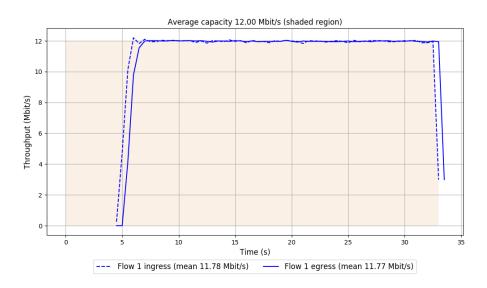
-- Flow 1:

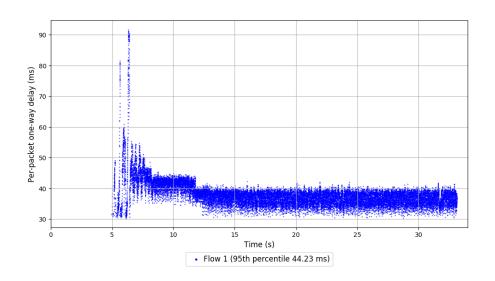
Average throughput: 11.77 Mbit/s

95th percentile per-packet one-way delay: 44.233 ms

Loss rate: 0.22%

Run 2: Report of Indigo-MusesC3 — Data Link





Run 3: Statistics of Indigo-MusesC3

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 09:46:22

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.68 Mbit/s (97.3% utilization) 95th percentile per-packet one-way delay: 38.763 ms

Loss rate: 0.12%

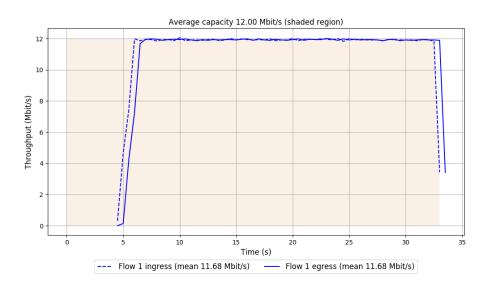
-- Flow 1:

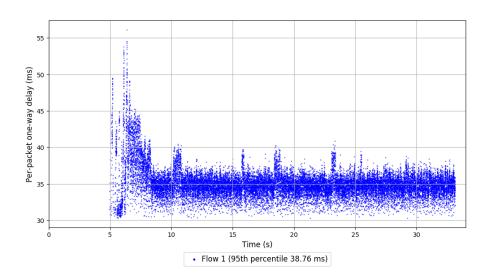
Average throughput: 11.68 Mbit/s

95th percentile per-packet one-way delay: 38.763 ms

Loss rate: 0.12%

Run 3: Report of Indigo-MusesC3 — Data Link





Run 1: Statistics of Indigo-MusesC5

Start at: 2020-04-16 09:14:12 End at: 2020-04-16 09:14:42

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: 11.63 Mbit/s (96.9% utilization) 95th percentile per-packet one-way delay: 87.645 ms

Loss rate: 11.54%

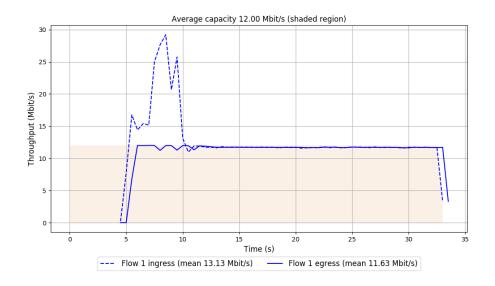
-- Flow 1:

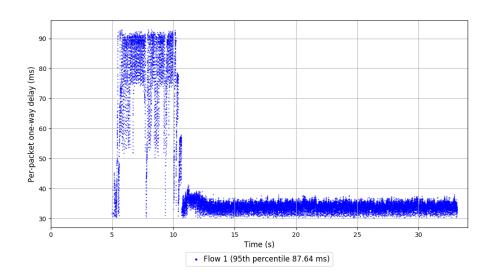
Average throughput: 11.63 Mbit/s

95th percentile per-packet one-way delay: 87.645 ms

Loss rate: 11.54%

Run 1: Report of Indigo-MusesC5 — Data Link





Run 2: Statistics of Indigo-MusesC5

Start at: 2020-04-16 09:28:19 End at: 2020-04-16 09:28:49

Below is generated by plot.py at 2020-04-16 09:46:32

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.75~Mbit/s (97.9%~utilization) 95th percentile per-packet one-way delay: 87.608~ms

Loss rate: 4.19%

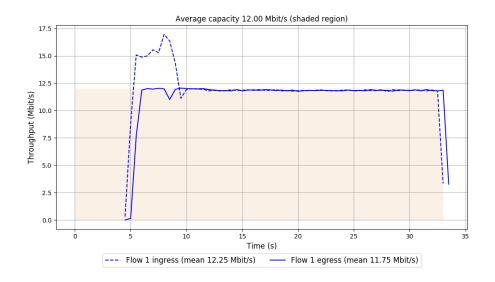
-- Flow 1:

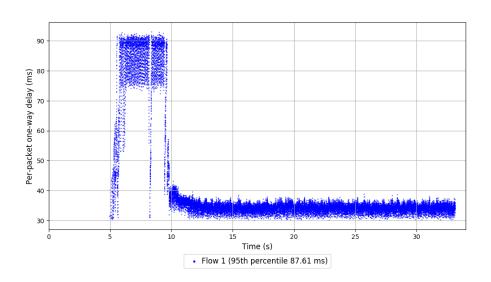
Average throughput: 11.75 Mbit/s

95th percentile per-packet one-way delay: 87.608 ms

Loss rate: 4.19%

Run 2: Report of Indigo-MusesC5 — Data Link





Run 3: Statistics of Indigo-MusesC5

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 09:46:32

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.34~Mbit/s (94.5%~utilization) 95th percentile per-packet one-way delay: 86.535~ms

Loss rate: 9.25%

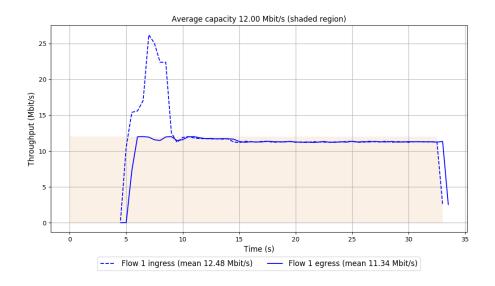
-- Flow 1:

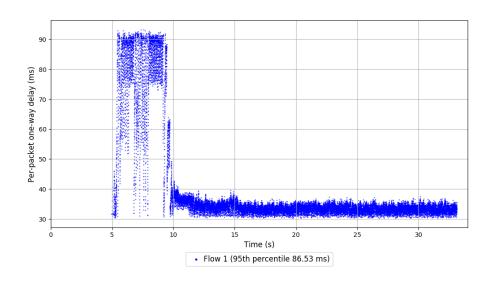
Average throughput: 11.34 Mbit/s

95th percentile per-packet one-way delay: 86.535 ms

Loss rate: 9.25%

Run 3: Report of Indigo-MusesC5 — Data Link





Run 1: Statistics of Indigo-MusesD

Start at: 2020-04-16 09:07:44 End at: 2020-04-16 09:08:14

Below is generated by plot.py at 2020-04-16 09:46:34

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 8.29 Mbit/s (69.1% utilization) 95th percentile per-packet one-way delay: 47.899 ms

Loss rate: 0.13%

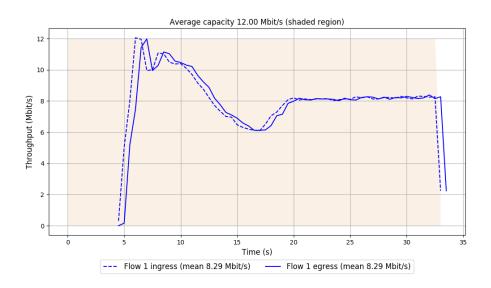
-- Flow 1:

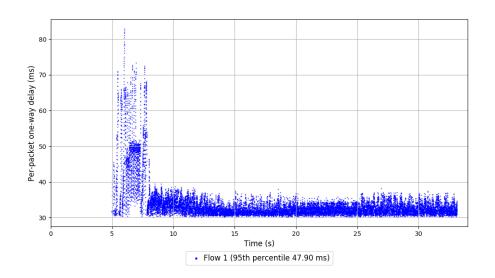
Average throughput: 8.29 Mbit/s

95th percentile per-packet one-way delay: 47.899 ms

Loss rate: 0.13%

Run 1: Report of Indigo-MusesD — Data Link





Run 2: Statistics of Indigo-MusesD

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 09:46:39

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 8.51 Mbit/s (70.9% utilization) 95th percentile per-packet one-way delay: 84.304 ms

Loss rate: 2.33%

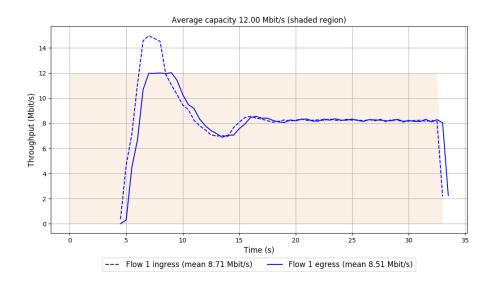
-- Flow 1:

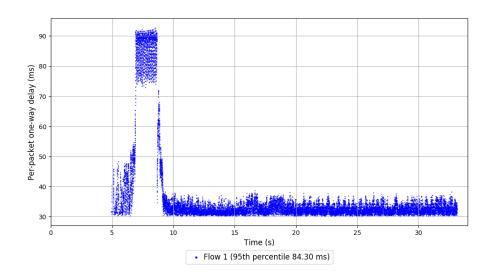
Average throughput: 8.51 Mbit/s

95th percentile per-packet one-way delay: 84.304 ms

Loss rate: 2.33%

Run 2: Report of Indigo-MusesD — Data Link





Run 3: Statistics of Indigo-MusesD

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 09:46:39

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 6.51 Mbit/s (54.2% utilization) 95th percentile per-packet one-way delay: 86.962 ms

Loss rate: 2.28%

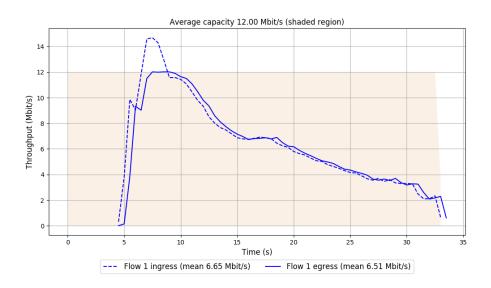
-- Flow 1:

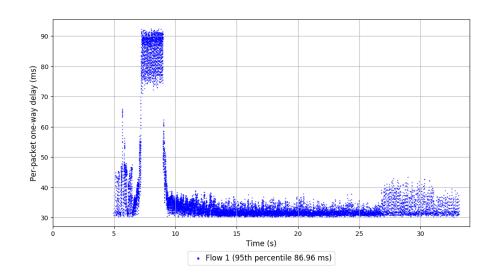
Average throughput: 6.51 Mbit/s

95th percentile per-packet one-way delay: 86.962 ms

Loss rate: 2.28%

Run 3: Report of Indigo-MusesD — Data Link





Run 1: Statistics of Indigo-MusesT

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 09:46:45

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: 90.433 ms

Loss rate: 14.00%

-- Flow 1:

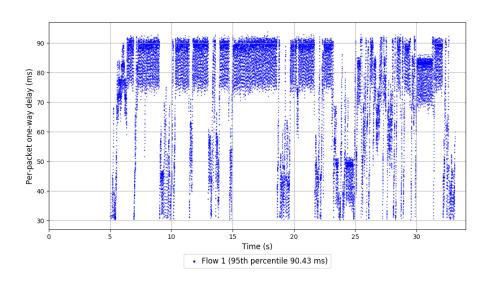
Average throughput: 11.36 Mbit/s

95th percentile per-packet one-way delay: 90.433 ms

Loss rate: 14.00%

Run 1: Report of Indigo-MusesT — Data Link





Run 2: Statistics of Indigo-MusesT

Start at: 2020-04-16 09:18:54 End at: 2020-04-16 09:19:24

Below is generated by plot.py at 2020-04-16 09:46:45

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: 89.673 ms

Loss rate: 8.46%

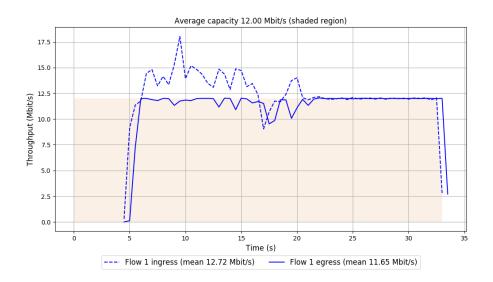
-- Flow 1:

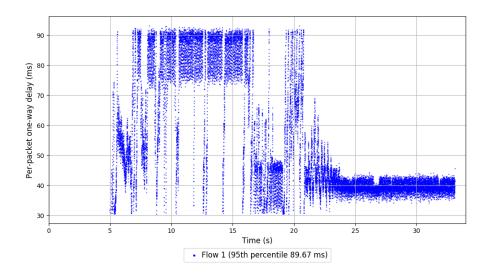
Average throughput: 11.65 Mbit/s

95th percentile per-packet one-way delay: 89.673 ms

Loss rate: 8.46%

Run 2: Report of Indigo-MusesT — Data Link





Run 3: Statistics of Indigo-MusesT

Start at: 2020-04-16 09:33:02 End at: 2020-04-16 09:33:32

Below is generated by plot.py at 2020-04-16 09:46:54

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.29 Mbit/s (94.1% utilization) 95th percentile per-packet one-way delay: 90.256 ms

Loss rate: 10.71%

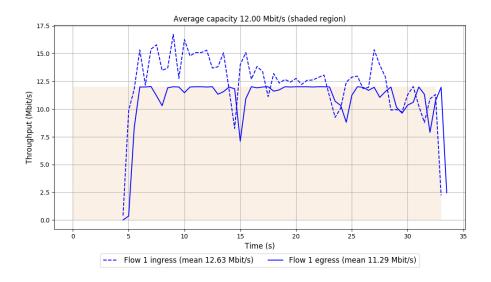
-- Flow 1:

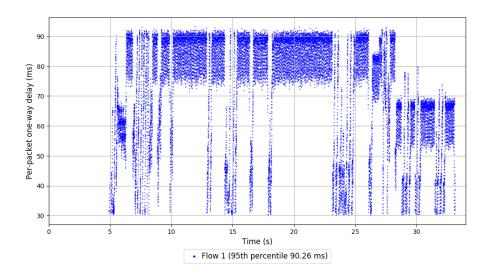
Average throughput: 11.29 Mbit/s

95th percentile per-packet one-way delay: 90.256 ms

Loss rate: 10.71%

Run 3: Report of Indigo-MusesT — Data Link





Run 1: Statistics of LEDBAT

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 09:46:57

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.85 Mbit/s (90.4% utilization) 95th percentile per-packet one-way delay: 88.988 ms

Loss rate: 0.21%

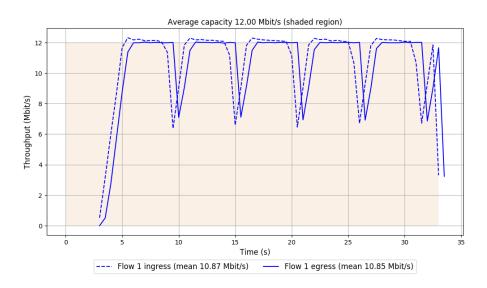
-- Flow 1:

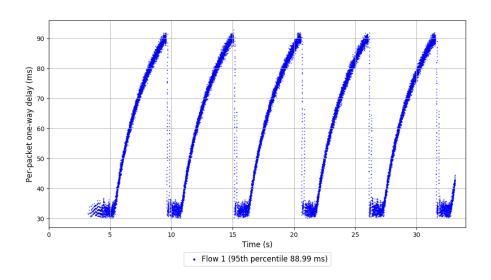
Average throughput: 10.85 Mbit/s

95th percentile per-packet one-way delay: 88.988 ms

Loss rate: 0.21%

Run 1: Report of LEDBAT — Data Link





Run 2: Statistics of LEDBAT

Start at: 2020-04-16 09:17:09 End at: 2020-04-16 09:17:39

Below is generated by plot.py at 2020-04-16 09:46:57

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.27 Mbit/s (85.6% utilization) 95th percentile per-packet one-way delay: 88.867 ms

Loss rate: 0.37%

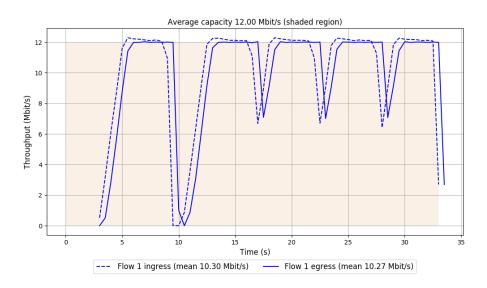
-- Flow 1:

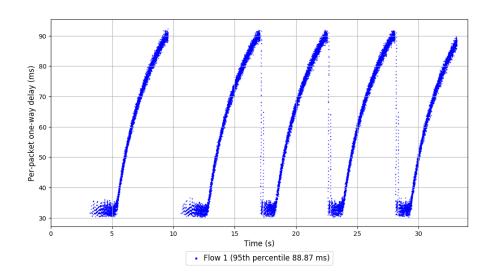
Average throughput: 10.27 Mbit/s

95th percentile per-packet one-way delay: 88.867 ms

Loss rate: 0.37%

Run 2: Report of LEDBAT — Data Link





Run 3: Statistics of LEDBAT

Start at: 2020-04-16 09:31:16 End at: 2020-04-16 09:31:46

Below is generated by plot.py at 2020-04-16 09:46:59

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.97 Mbit/s (91.4% utilization) 95th percentile per-packet one-way delay: 89.165 ms

Loss rate: 0.26%

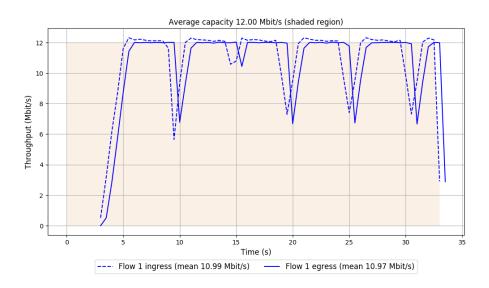
-- Flow 1:

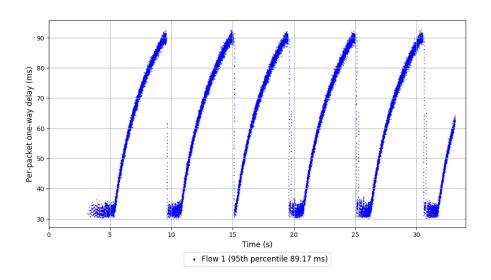
Average throughput: 10.97 Mbit/s

95th percentile per-packet one-way delay: 89.165 ms

Loss rate: 0.26%

Run 3: Report of LEDBAT — Data Link





Run 1: Statistics of Muses_DecisionTree

Start at: 2020-04-16 09:12:26 End at: 2020-04-16 09:12:56

Below is generated by plot.py at 2020-04-16 09:46:59

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 7.63 Mbit/s (63.6% utilization) 95th percentile per-packet one-way delay: 33.333 ms

Loss rate: 0.10%

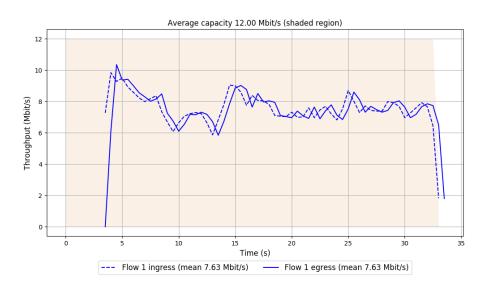
-- Flow 1:

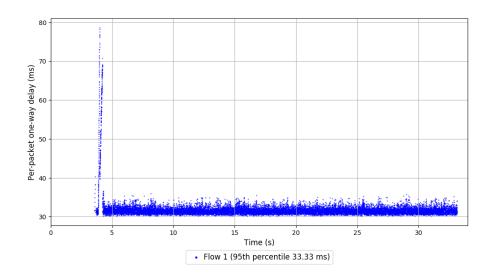
Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 33.333 ms

Loss rate: 0.10%

Run 1: Report of Muses_DecisionTree — Data Link





Run 2: Statistics of Muses_DecisionTree

Start at: 2020-04-16 09:26:34 End at: 2020-04-16 09:27:04

Below is generated by plot.py at 2020-04-16 09:47:01

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 8.96 Mbit/s (74.7% utilization) 95th percentile per-packet one-way delay: 33.710 ms

Loss rate: 0.11%

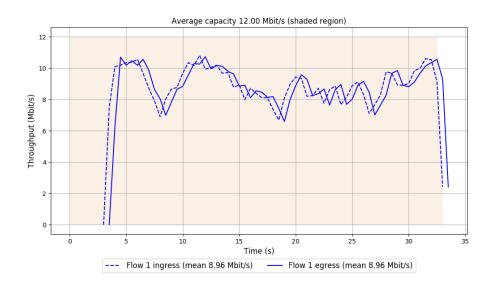
-- Flow 1:

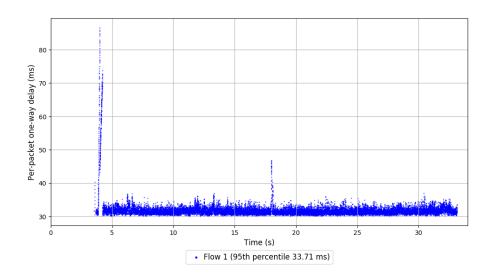
Average throughput: 8.96 Mbit/s

95th percentile per-packet one-way delay: 33.710 ms

Loss rate: 0.11%

Run 2: Report of Muses_DecisionTree — Data Link





Run 3: Statistics of Muses_DecisionTree

Start at: 2020-04-16 09:40:41 End at: 2020-04-16 09:41:11

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: 7.92 Mbit/s (66.0% utilization) 95th percentile per-packet one-way delay: 33.579 ms

Loss rate: 0.12%

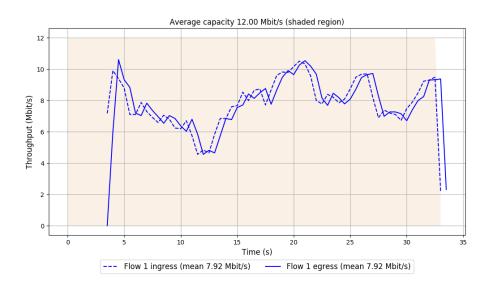
-- Flow 1:

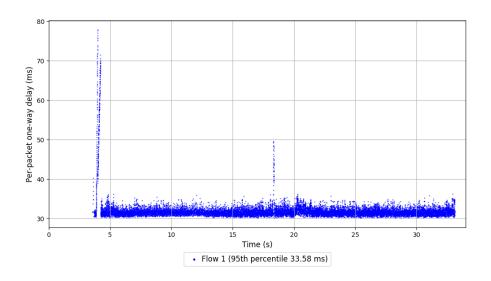
Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 33.579 ms

Loss rate: 0.12%

Run 3: Report of Muses_DecisionTree — Data Link





Run 1: Statistics of Muses_DecisionTreeHO

Start at: 2020-04-16 09:11:51 End at: 2020-04-16 09:12:21

Below is generated by plot.py at 2020-04-16 09:47:10

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: 39.322 ms

Loss rate: 0.13%

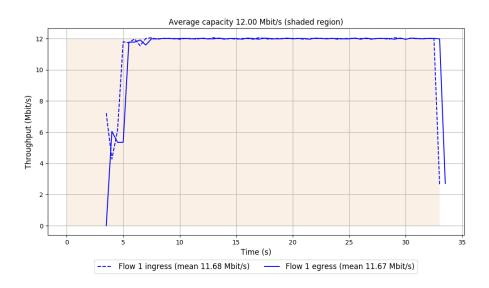
-- Flow 1:

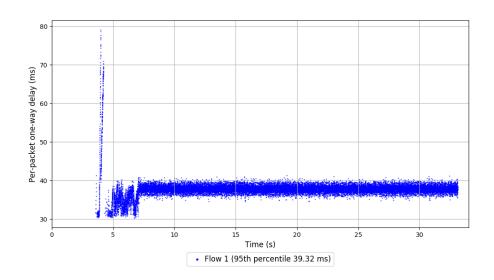
Average throughput: 11.67 Mbit/s

95th percentile per-packet one-way delay: 39.322 ms

Loss rate: 0.13%

Run 1: Report of Muses_DecisionTreeH0 — Data Link





Run 2: Statistics of Muses_DecisionTreeHO

Start at: 2020-04-16 09:25:59 End at: 2020-04-16 09:26:29

Below is generated by plot.py at 2020-04-16 09:47:18

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.55 Mbit/s (96.3% utilization) 95th percentile per-packet one-way delay: 40.238 ms

Loss rate: 0.13%

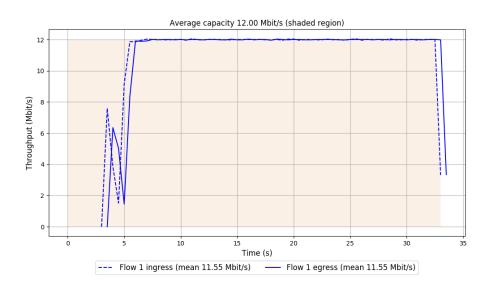
-- Flow 1:

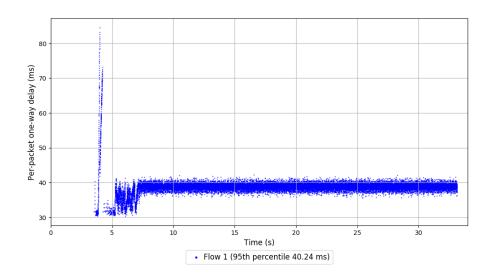
Average throughput: 11.55 Mbit/s

95th percentile per-packet one-way delay: 40.238 ms

Loss rate: 0.13%

Run 2: Report of Muses_DecisionTreeH0 — Data Link





Run 3: Statistics of Muses_DecisionTreeHO

Start at: 2020-04-16 09:40:06 End at: 2020-04-16 09:40:36

Below is generated by plot.py at 2020-04-16 09:47:21

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.68 Mbit/s (97.3% utilization) 95th percentile per-packet one-way delay: 40.098 ms

Loss rate: 0.14%

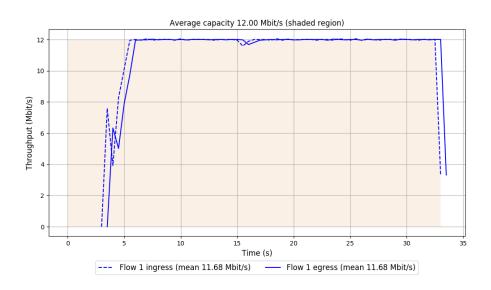
-- Flow 1:

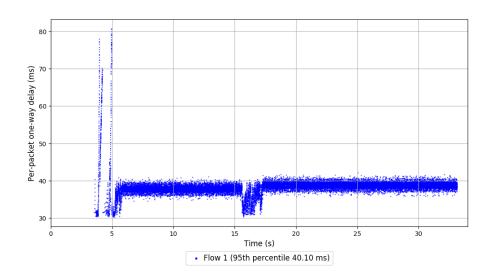
Average throughput: 11.68 Mbit/s

95th percentile per-packet one-way delay: 40.098 ms

Loss rate: 0.14%

Run 3: Report of Muses_DecisionTreeH0 — Data Link





Run 1: Statistics of Muses_DecisionTreeR0

Start at: 2020-04-16 09:13:37 End at: 2020-04-16 09:14:07

Below is generated by plot.py at 2020-04-16 09:47:21

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 7.13 Mbit/s (59.4% utilization) 95th percentile per-packet one-way delay: 33.305 ms

Loss rate: 0.14%

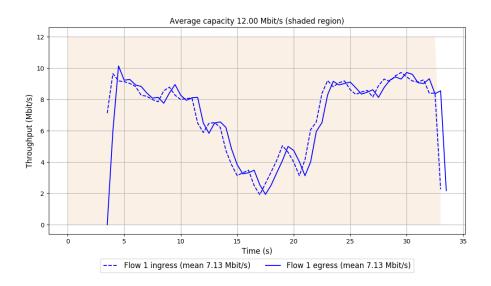
-- Flow 1:

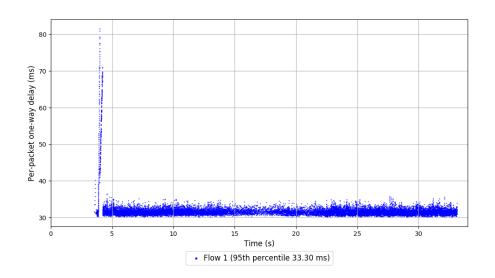
Average throughput: 7.13 Mbit/s

95th percentile per-packet one-way delay: 33.305 ms

Loss rate: 0.14%

Run 1: Report of Muses_DecisionTreeR0 — Data Link





Run 2: Statistics of Muses_DecisionTreeR0

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 09:47:21

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 9.26 Mbit/s (77.1% utilization) 95th percentile per-packet one-way delay: 33.449 ms

Loss rate: 0.09%

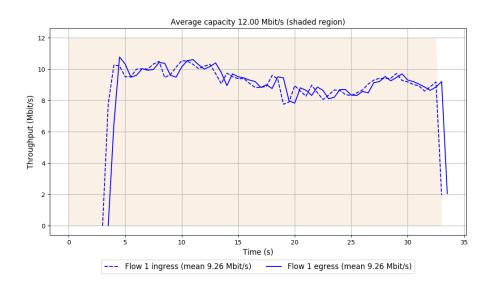
-- Flow 1:

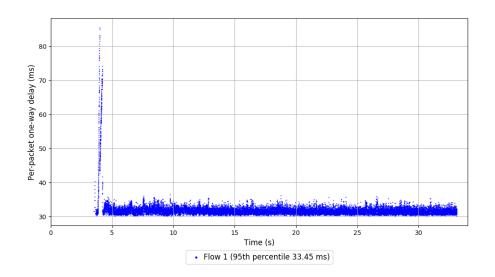
Average throughput: 9.26 Mbit/s

95th percentile per-packet one-way delay: 33.449 ms

Loss rate: 0.09%

Run 2: Report of Muses_DecisionTreeR0 — Data Link





Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2020-04-16 09:41:51 End at: 2020-04-16 09:42:21

Below is generated by plot.py at 2020-04-16 09:47:21

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 9.44 Mbit/s (78.6% utilization) 95th percentile per-packet one-way delay: 33.466 ms

Loss rate: 0.10%

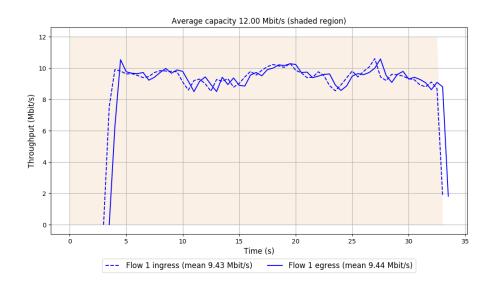
-- Flow 1:

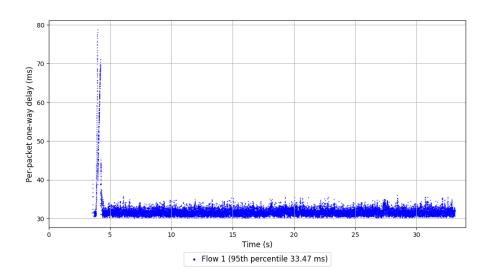
Average throughput: 9.44 Mbit/s

95th percentile per-packet one-way delay: 33.466 ms

Loss rate: 0.10%

Run 3: Report of Muses_DecisionTreeR0 — Data Link





Run 1: Statistics of PCC-Allegro

Start at: 2020-04-16 09:11:16 End at: 2020-04-16 09:11:46

Below is generated by plot.py at 2020-04-16 09:47:25

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: 38.352 ms

Loss rate: 0.83%

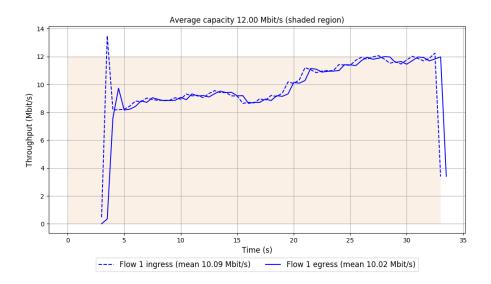
-- Flow 1:

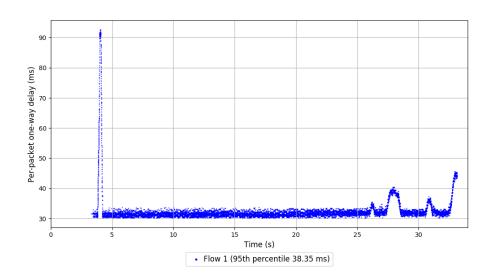
Average throughput: 10.02 Mbit/s

95th percentile per-packet one-way delay: 38.352 ms

Loss rate: 0.83%

Run 1: Report of PCC-Allegro — Data Link





Run 2: Statistics of PCC-Allegro

Start at: 2020-04-16 09:25:24 End at: 2020-04-16 09:25:54

Below is generated by plot.py at 2020-04-16 09:47:28

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 9.36 Mbit/s (78.0% utilization) 95th percentile per-packet one-way delay: 32.662 ms

Loss rate: 1.00%

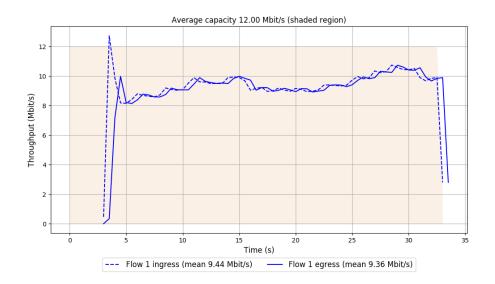
-- Flow 1:

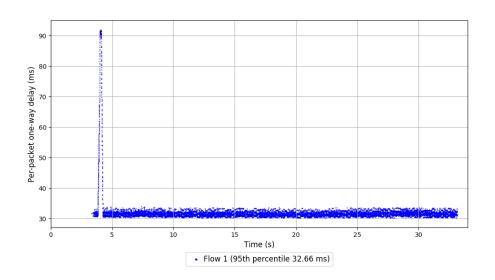
Average throughput: 9.36 Mbit/s

95th percentile per-packet one-way delay: 32.662 ms

Loss rate: 1.00%

Run 2: Report of PCC-Allegro — Data Link





Run 3: Statistics of PCC-Allegro

Start at: 2020-04-16 09:39:30 End at: 2020-04-16 09:40:01

Below is generated by plot.py at 2020-04-16 09:47:32

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 9.45 Mbit/s (78.7% utilization) 95th percentile per-packet one-way delay: 32.738 ms

Loss rate: 0.79%

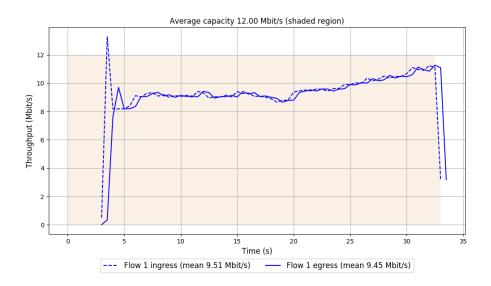
-- Flow 1:

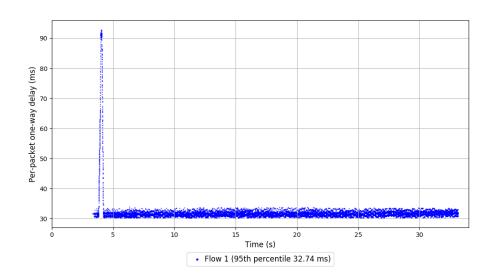
Average throughput: 9.45 Mbit/s

95th percentile per-packet one-way delay: 32.738 ms

Loss rate: 0.79%

Run 3: Report of PCC-Allegro — Data Link





Run 1: Statistics of PCC-Expr

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 09:47:51

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.69 Mbit/s (89.0% utilization) 95th percentile per-packet one-way delay: 84.966 ms

Loss rate: 0.30%

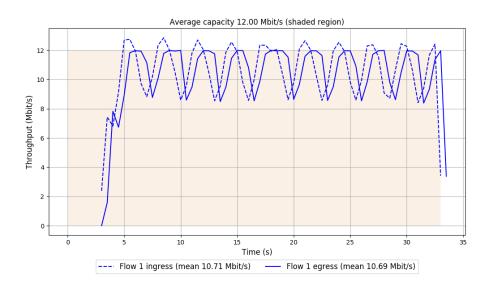
-- Flow 1:

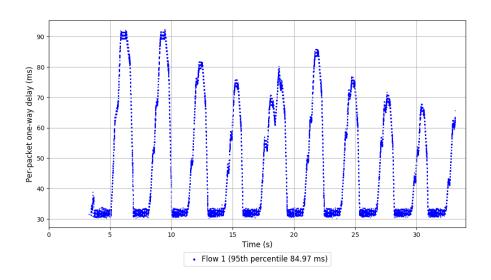
Average throughput: 10.69 Mbit/s

95th percentile per-packet one-way delay: 84.966 ms

Loss rate: 0.30%

Run 1: Report of PCC-Expr — Data Link





Run 2: Statistics of PCC-Expr

Start at: 2020-04-16 09:19:30 End at: 2020-04-16 09:20:00

Below is generated by plot.py at 2020-04-16 09:47:54

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.60 Mbit/s (88.3% utilization) 95th percentile per-packet one-way delay: 84.932 ms

Loss rate: 0.18%

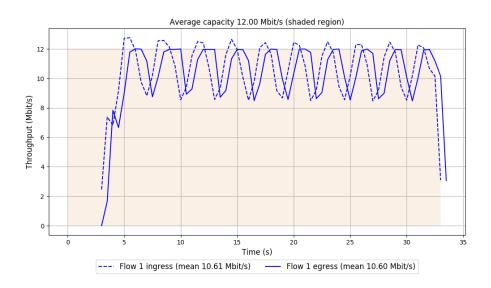
-- Flow 1:

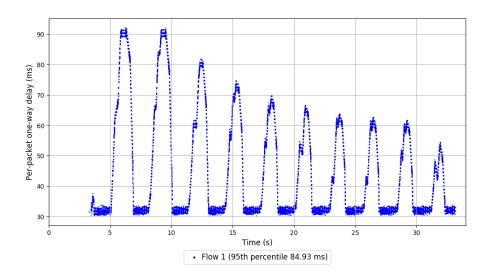
Average throughput: 10.60 Mbit/s

95th percentile per-packet one-way delay: 84.932 ms

Loss rate: 0.18%

Run 2: Report of PCC-Expr — Data Link





Run 3: Statistics of PCC-Expr

Start at: 2020-04-16 09:33:37 End at: 2020-04-16 09:34:07

Below is generated by plot.py at 2020-04-16 09:47:55

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.87 Mbit/s (90.6% utilization) 95th percentile per-packet one-way delay: 84.917 ms

Loss rate: 0.27%

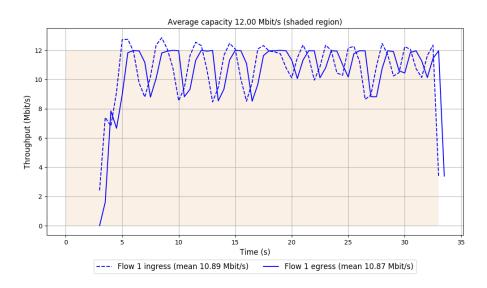
-- Flow 1:

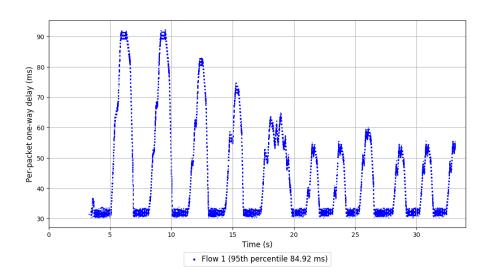
Average throughput: 10.87 Mbit/s

95th percentile per-packet one-way delay: 84.917 ms

Loss rate: 0.27%

Run 3: Report of PCC-Expr — Data Link





Run 1: Statistics of QUIC Cubic

Start at: 2020-04-16 09:14:47 End at: 2020-04-16 09:15:17

Below is generated by plot.py at 2020-04-16 09:47:55

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.74 Mbit/s (97.9% utilization) 95th percentile per-packet one-way delay: 89.342 ms

Loss rate: 0.89%

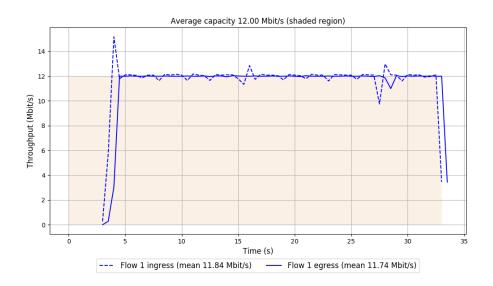
-- Flow 1:

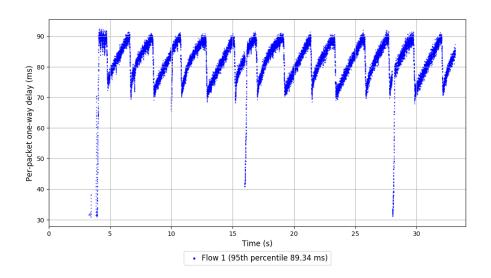
Average throughput: 11.74 Mbit/s

95th percentile per-packet one-way delay: 89.342 ms

Loss rate: 0.89%

Run 1: Report of QUIC Cubic — Data Link





Run 2: Statistics of QUIC Cubic

Start at: 2020-04-16 09:28:55 End at: 2020-04-16 09:29:25

Below is generated by plot.py at 2020-04-16 09:47:55

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.74~Mbit/s (97.9% utilization) 95th percentile per-packet one-way delay: 89.367 ms

Loss rate: 0.91%

-- Flow 1:

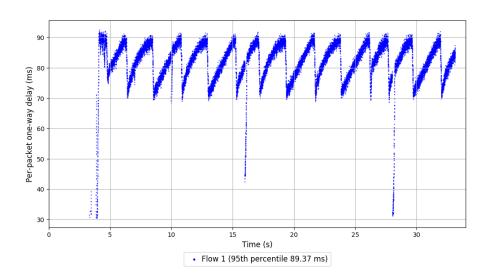
Average throughput: 11.74 Mbit/s

95th percentile per-packet one-way delay: 89.367 ms

Loss rate: 0.91%

Run 2: Report of QUIC Cubic — Data Link





Run 3: Statistics of QUIC Cubic

Start at: 2020-04-16 09:43:02 End at: 2020-04-16 09:43:32

Below is generated by plot.py at 2020-04-16 09:47:55

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.73 Mbit/s (97.8% utilization) 95th percentile per-packet one-way delay: 89.205 ms

Loss rate: 0.87%

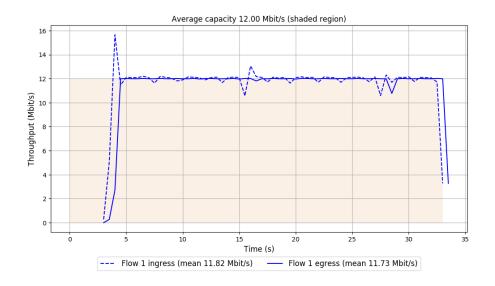
-- Flow 1:

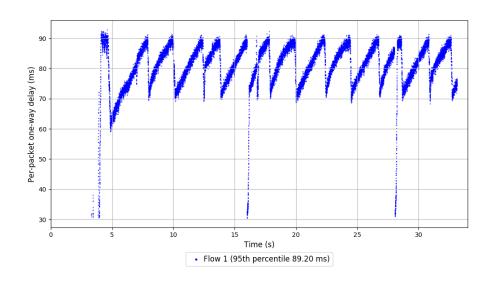
Average throughput: 11.73 Mbit/s

95th percentile per-packet one-way delay: 89.205 ms

Loss rate: 0.87%

Run 3: Report of QUIC Cubic — Data Link





Run 1: Statistics of SCReAM

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 09:47:55

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: 31.618 ms

Loss rate: 0.13%

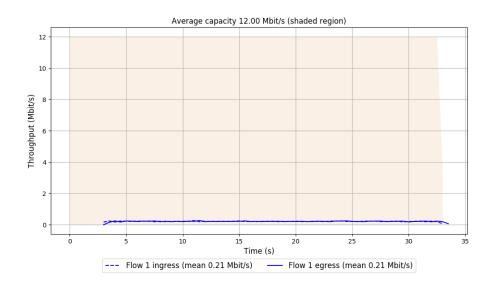
-- Flow 1:

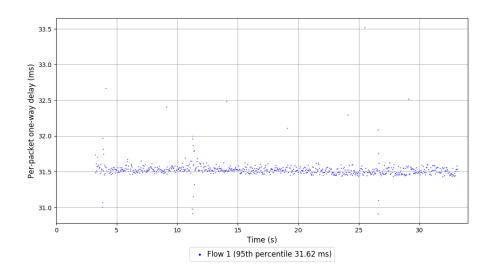
Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 31.618 ms

Loss rate: 0.13%

Run 1: Report of SCReAM — Data Link





Run 2: Statistics of SCReAM

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 09:47:55

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: 31.583 ms

Loss rate: 0.00%

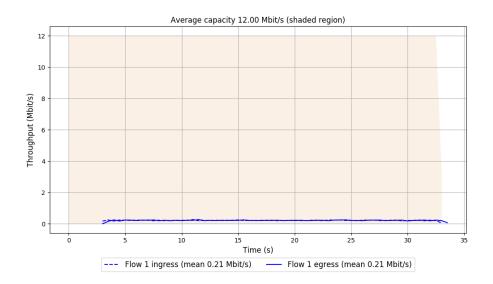
-- Flow 1:

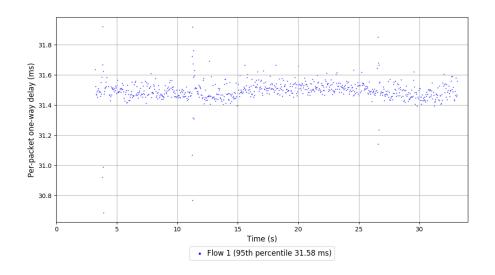
Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 31.583 ms

Loss rate: 0.00%

Run 2: Report of SCReAM — Data Link





Run 3: Statistics of SCReAM

Start at: 2020-04-16 09:32:27 End at: 2020-04-16 09:32:57

Below is generated by plot.py at 2020-04-16 09:47:55

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: 31.581 ms

Loss rate: 0.13%

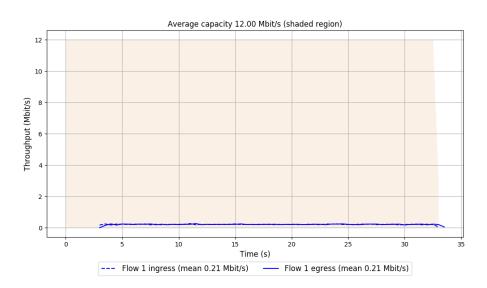
-- Flow 1:

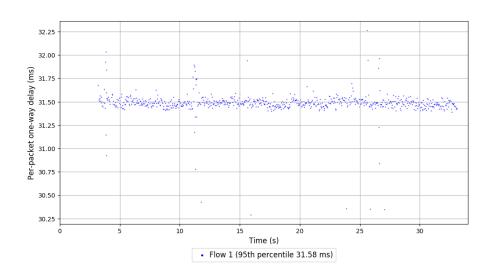
Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 31.581 ms

Loss rate: 0.13%

Run 3: Report of SCReAM — Data Link





Run 1: Statistics of Sprout

Start at: 2020-04-16 09:13:02 End at: 2020-04-16 09:13:32

Below is generated by plot.py at 2020-04-16 09:48:00

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 6.58 Mbit/s (54.9% utilization) 95th percentile per-packet one-way delay: 54.641 ms

Loss rate: 0.18%

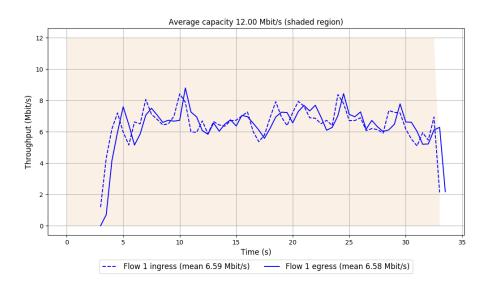
-- Flow 1:

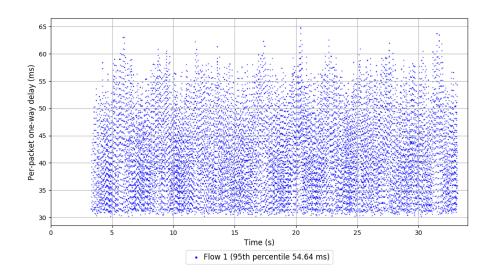
Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 54.641 ms

Loss rate: 0.18%

Run 1: Report of Sprout — Data Link





Run 2: Statistics of Sprout

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

Below is generated by plot.py at 2020-04-16 09:48:02

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 6.50 Mbit/s (54.2% utilization) 95th percentile per-packet one-way delay: 54.733 ms

Loss rate: 0.06%

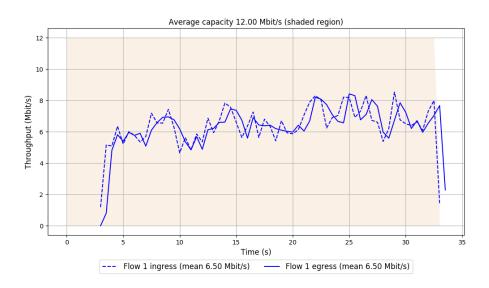
-- Flow 1:

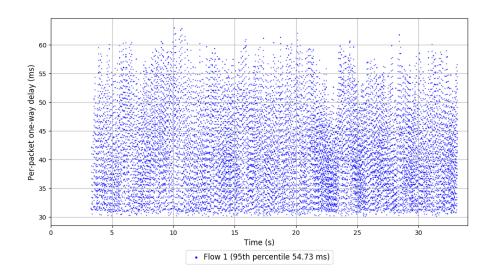
Average throughput: 6.50 Mbit/s

95th percentile per-packet one-way delay: 54.733 ms

Loss rate: 0.06%

Run 2: Report of Sprout — Data Link





Run 3: Statistics of Sprout

Start at: 2020-04-16 09:41:16 End at: 2020-04-16 09:41:46

Below is generated by plot.py at 2020-04-16 09:48:03

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 6.50 Mbit/s (54.2% utilization) 95th percentile per-packet one-way delay: 54.636 ms

Loss rate: 0.21%

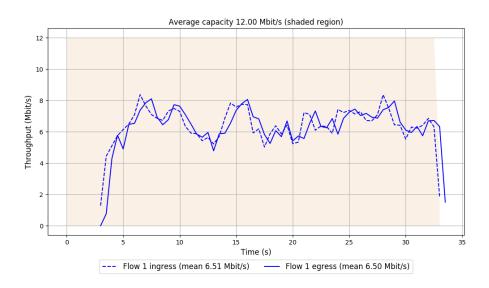
-- Flow 1:

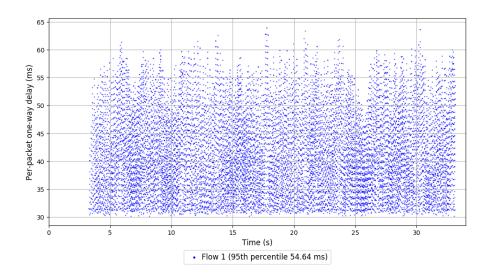
Average throughput: 6.50 Mbit/s

95th percentile per-packet one-way delay: 54.636 ms

Loss rate: 0.21%

Run 3: Report of Sprout — Data Link





Run 1: Statistics of TaoVA-100x

Start at: 2020-04-16 09:15:58 End at: 2020-04-16 09:16:28

Below is generated by plot.py at 2020-04-16 09:48:24

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.09 Mbit/s (92.4% utilization) 95th percentile per-packet one-way delay: 32.788 ms

Loss rate: 0.58%

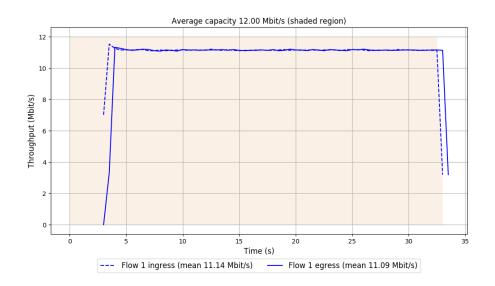
-- Flow 1:

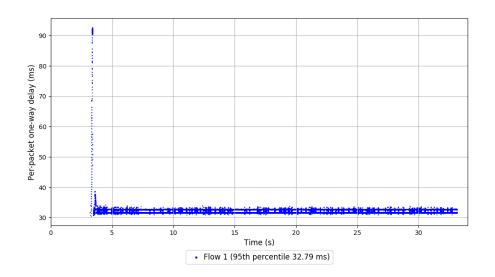
Average throughput: 11.09 Mbit/s

95th percentile per-packet one-way delay: 32.788 ms

Loss rate: 0.58%

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





Run 2: Statistics of TaoVA-100x

Start at: 2020-04-16 09:30:05 End at: 2020-04-16 09:30:35

Below is generated by plot.py at 2020-04-16 09:48:28

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.07 Mbit/s (92.3% utilization) 95th percentile per-packet one-way delay: 32.824 ms

Loss rate: 0.58%

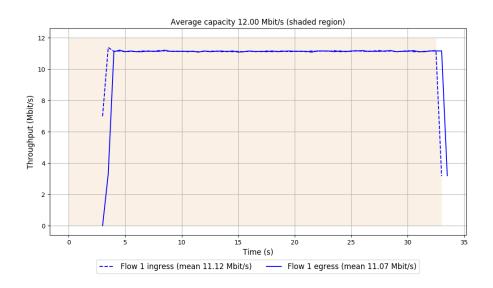
-- Flow 1:

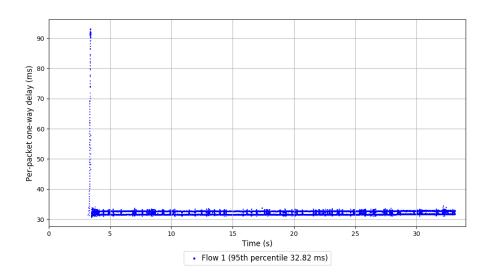
Average throughput: 11.07 Mbit/s

95th percentile per-packet one-way delay: 32.824 ms

Loss rate: 0.58%

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





Run 3: Statistics of TaoVA-100x

Start at: 2020-04-16 09:44:12 End at: 2020-04-16 09:44:42

Below is generated by plot.py at 2020-04-16 09:48:28

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: 32.778 ms

Loss rate: 0.14%

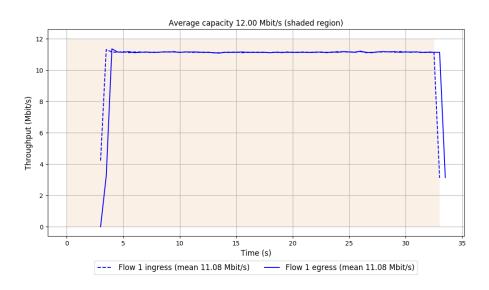
-- Flow 1:

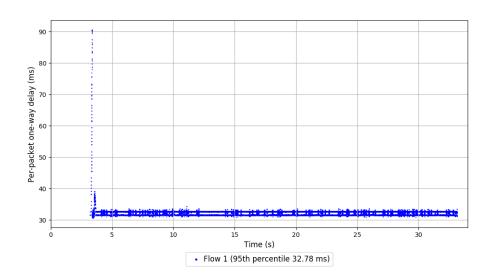
Average throughput: 11.08 Mbit/s

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

Loss rate: 0.14%

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





Run 1: Statistics of TCP Vegas

Start at: 2020-04-16 09:08:55 End at: 2020-04-16 09:09:25

Below is generated by plot.py at 2020-04-16 09:48:28

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.92 Mbit/s (99.3% utilization) 95th percentile per-packet one-way delay: 37.557 ms

Loss rate: 0.53%

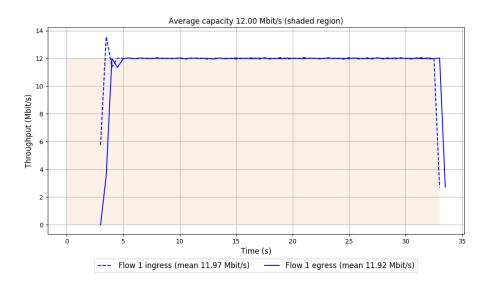
-- Flow 1:

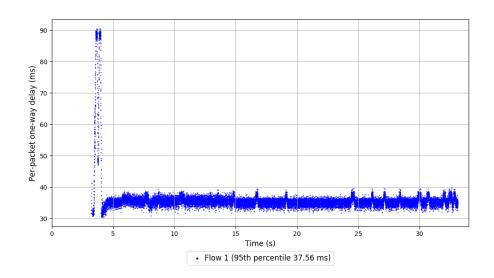
Average throughput: 11.92 Mbit/s

95th percentile per-packet one-way delay: 37.557 ms

Loss rate: 0.53%

Run 1: Report of TCP Vegas — Data Link





Run 2: Statistics of TCP Vegas

Start at: 2020-04-16 09:23:02 End at: 2020-04-16 09:23:32

Below is generated by plot.py at 2020-04-16 09:48:28

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.93~Mbit/s (99.4%~utilization) 95th percentile per-packet one-way delay: 38.337~ms

Loss rate: 0.24%

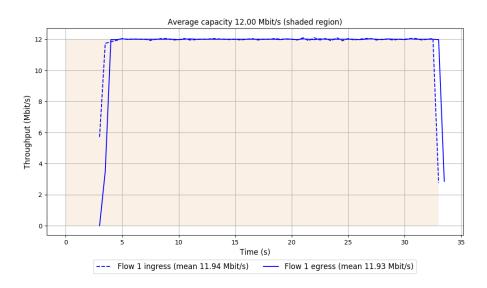
-- Flow 1:

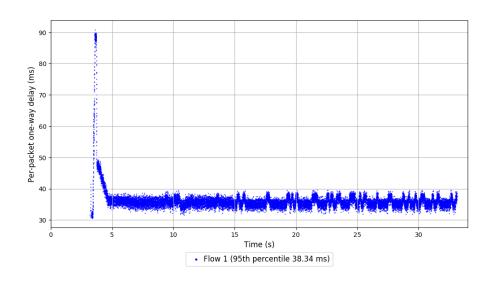
Average throughput: 11.93 Mbit/s

95th percentile per-packet one-way delay: 38.337 ms

Loss rate: 0.24%

Run 2: Report of TCP Vegas — Data Link





Run 3: Statistics of TCP Vegas

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 09:48:28

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.93 Mbit/s (99.4% utilization) 95th percentile per-packet one-way delay: 38.608 ms

Loss rate: 0.24%

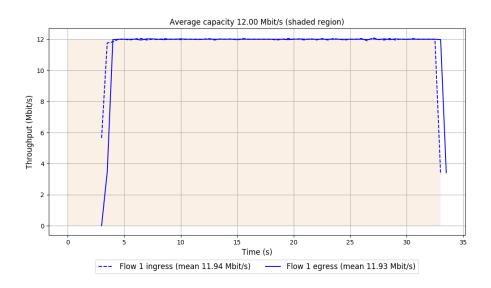
-- Flow 1:

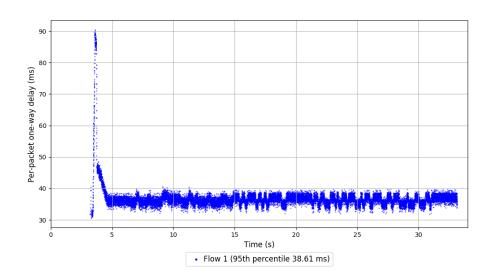
Average throughput: 11.93 Mbit/s

95th percentile per-packet one-way delay: 38.608 ms

Loss rate: 0.24%

Run 3: Report of TCP Vegas — Data Link





Run 1: Statistics of Verus

Start at: 2020-04-16 09:10:40 End at: 2020-04-16 09:11:11

Below is generated by plot.py at 2020-04-16 09:48:28

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: 86.667 ms

Loss rate: 5.34%

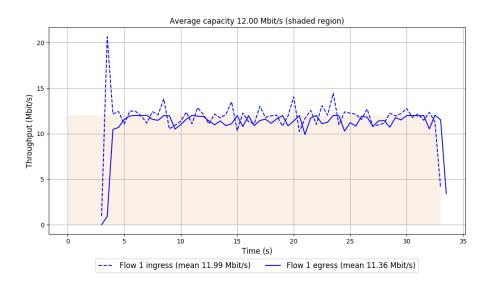
-- Flow 1:

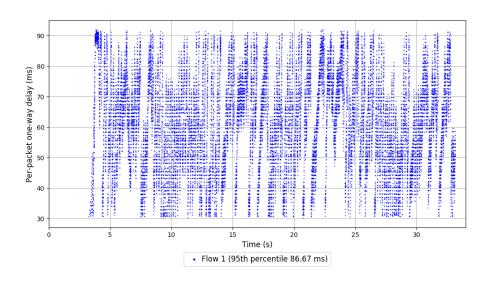
Average throughput: 11.36 Mbit/s

95th percentile per-packet one-way delay: 86.667 ms

Loss rate: 5.34%

Run 1: Report of Verus — Data Link





Run 2: Statistics of Verus

Start at: 2020-04-16 09:24:47 End at: 2020-04-16 09:25:17

Below is generated by plot.py at 2020-04-16 09:48:39

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 9.34 Mbit/s (77.8% utilization) 95th percentile per-packet one-way delay: 90.544 ms

Loss rate: 82.92%

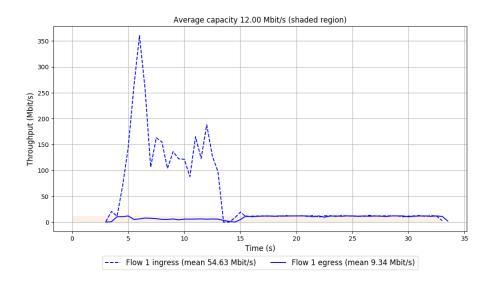
-- Flow 1:

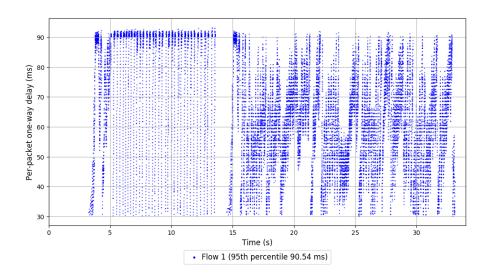
Average throughput: 9.34 Mbit/s

95th percentile per-packet one-way delay: 90.544 ms

Loss rate: 82.92%

Run 2: Report of Verus — Data Link





Run 3: Statistics of Verus

Start at: 2020-04-16 09:38:55 End at: 2020-04-16 09:39:25

Below is generated by plot.py at 2020-04-16 09:48:40

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.35~Mbit/s (94.6%~utilization) 95th percentile per-packet one-way delay: 86.512~ms

Loss rate: 5.55%

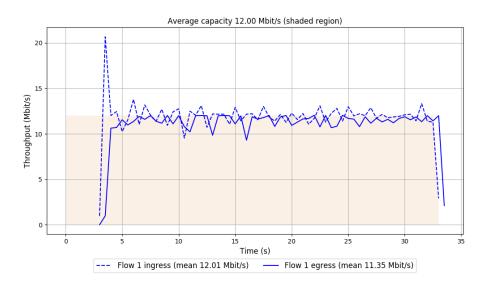
-- Flow 1:

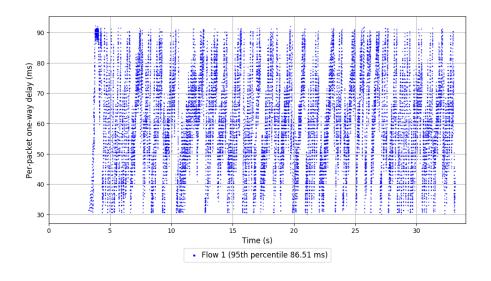
Average throughput: 11.35 Mbit/s

95th percentile per-packet one-way delay: 86.512 ms

Loss rate: 5.55%

Run 3: Report of Verus — Data Link





Run 1: Statistics of PCC-Vivace

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 09:48:42

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.94 Mbit/s (91.2% utilization) 95th percentile per-packet one-way delay: 36.904 ms

Loss rate: 0.11%

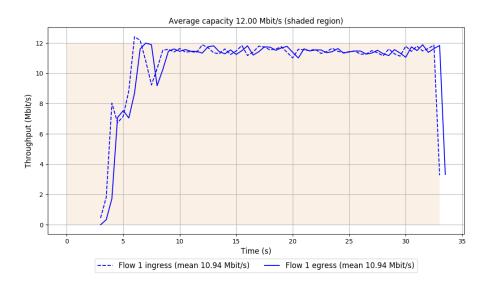
-- Flow 1:

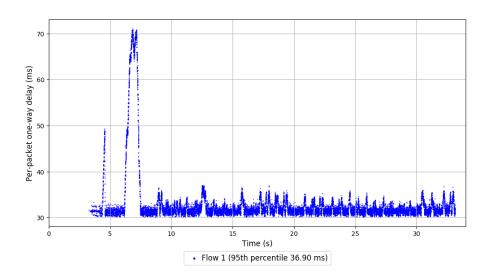
Average throughput: 10.94 Mbit/s

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

Loss rate: 0.11%

Run 1: Report of PCC-Vivace — Data Link





Run 2: Statistics of PCC-Vivace

Start at: 2020-04-16 09:17:44 End at: 2020-04-16 09:18:14

Below is generated by plot.py at 2020-04-16 09:48:42

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.94~Mbit/s (91.2%~utilization) 95th percentile per-packet one-way delay: 37.436~ms

Loss rate: 0.11%

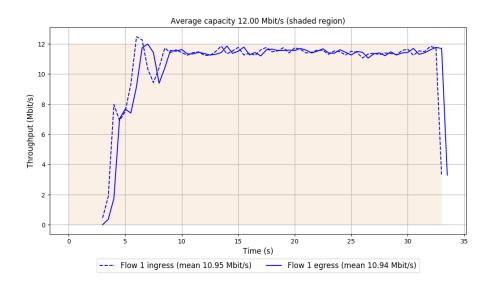
-- Flow 1:

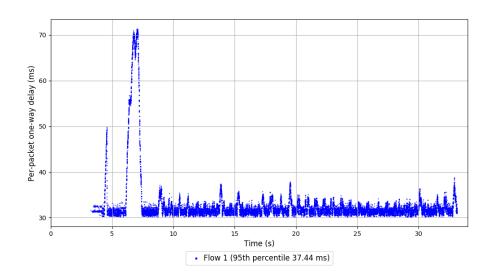
Average throughput: 10.94 Mbit/s

95th percentile per-packet one-way delay: 37.436 ms

Loss rate: 0.11%

Run 2: Report of PCC-Vivace — Data Link





Run 3: Statistics of PCC-Vivace

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 09:48:43

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.86 Mbit/s (90.5% utilization) 95th percentile per-packet one-way delay: 39.111 ms

Loss rate: 0.11%

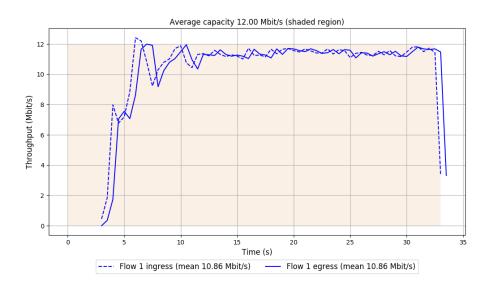
-- Flow 1:

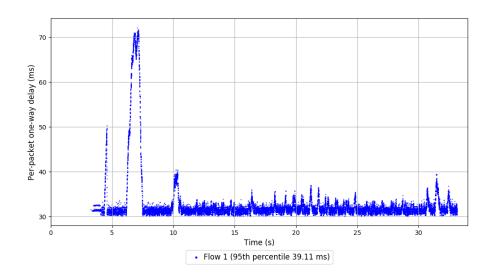
Average throughput: 10.86 Mbit/s

95th percentile per-packet one-way delay: 39.111 ms

Loss rate: 0.11%

Run 3: Report of PCC-Vivace — Data Link

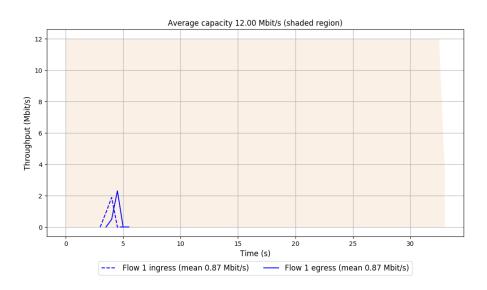


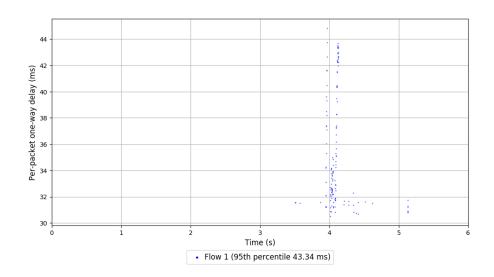


Run 1: Statistics of WebRTC media

Start at: 2020-04-16 09:05:58 End at: 2020-04-16 09:06:28

Run 1: Report of WebRTC media — Data Link

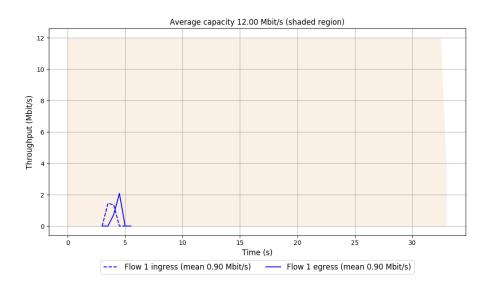


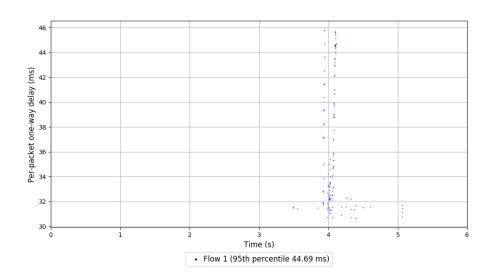


Run 2: Statistics of WebRTC media

Start at: 2020-04-16 09:20:05 End at: 2020-04-16 09:20:35

Run 2: Report of WebRTC media — Data Link





Run 3: Statistics of WebRTC media

Start at: 2020-04-16 09:34:13 End at: 2020-04-16 09:34:43

Run 3: Report of WebRTC media — Data Link

