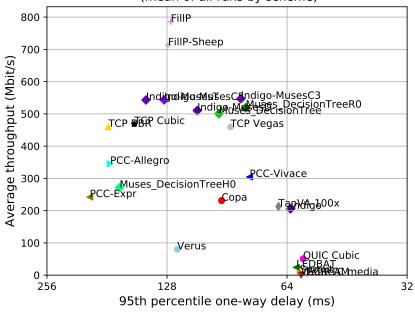
Pantheon Report

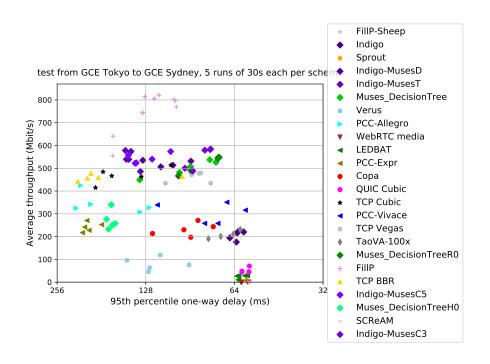
Generated at 2019-10-03 22:35:12 (UTC).

```
Data path: GCE Tokyo on ens4 (remote) \rightarrow GCE Sydney on ens4 (local).
   Repeated the test of 24 congestion control schemes 5 times.
   Each test lasted for 30 seconds running 1 flow.
   NTP offsets were measured against time.google.com and have been applied
to correct the timestamps in logs.
System info:
Linux 4.15.0-1044-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
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
```

 $\label{third_party/vivace 0} \mbox{ 2baf86211435ae071a32f96b7d8c504587f5d7f4} \\ \mbox{third_party/webrtc 0} \mbox{ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851}$

test from GCE Tokyo to GCE Sydney, 5 runs of 30s each per scheme (mean of all runs by scheme)





		mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate (%)
scheme	# runs	flow 1	flow 1	flow 1
TCP BBR	5	459.88	179.60	1.43
Copa	5	231.06	93.41	0.38
TCP Cubic	5	468.59	154.63	0.64
FillP	5	785.81	125.24	3.34
FillP-Sheep	5	712.72	127.25	2.28
Indigo	5	205.69	62.75	0.46
Indigo-MusesC3	5	546.75	83.58	0.40
Indigo-MusesC5	5	543.25	130.14	0.63
Indigo-MusesD	5	510.39	107.45	0.45
Indigo-MusesT	5	543.20	144.50	0.57
LEDBAT	5	24.16	60.70	0.72
$Muses_DecisionTree$	5	500.38	94.84	0.38
$Muses_DecisionTreeH0$	5	271.39	168.33	7.50
$Muses_DecisionTreeR0$	5	519.38	81.24	0.44
PCC-Allegro	5	345.19	177.72	3.47
PCC-Expr	5	242.00	199.91	4.69
QUIC Cubic	5	50.82	58.37	0.67
SCReAM	5	0.22	56.96	0.38
Sprout	5	7.67	59.51	0.35
TaoVA-100x	5	212.70	67.27	0.45
TCP Vegas	5	459.51	88.72	0.42
Verus	5	80.00	120.66	0.45
PCC-Vivace	5	304.41	79.47	0.45
WebRTC media	4	0.05	58.99	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-10-03 17:53:28 End at: 2019-10-03 17:53:58 Local clock offset: 0.137 ms Remote clock offset: 0.233 ms

Below is generated by plot.py at 2019-10-03 20:32:58

Datalink statistics
-- Total of 1 flow:

Average throughput: 477.51 Mbit/s

95th percentile per-packet one-way delay: 196.527 ms

Loss rate: 2.05%

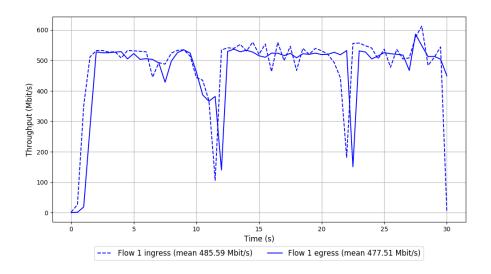
-- Flow 1:

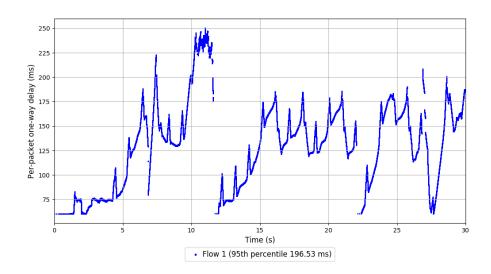
Average throughput: 477.51 Mbit/s

95th percentile per-packet one-way delay: 196.527 ms

Loss rate: 2.05%

Run 1: Report of TCP BBR — Data Link





Run 2: Statistics of TCP BBR

Start at: 2019-10-03 18:27:55 End at: 2019-10-03 18:28:25 Local clock offset: 0.202 ms Remote clock offset: -0.016 ms

Below is generated by plot.py at 2019-10-03 20:32:58

Datalink statistics
-- Total of 1 flow:

Average throughput: 442.06 Mbit/s

95th percentile per-packet one-way delay: 217.556 ms

Loss rate: 1.28%

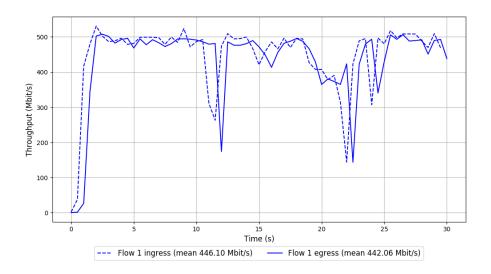
-- Flow 1:

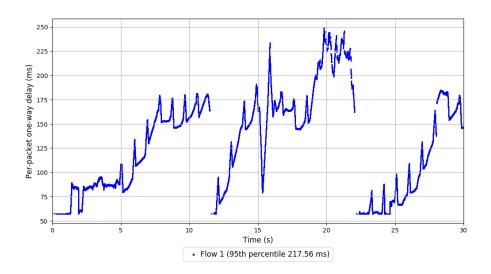
Average throughput: 442.06 Mbit/s

95th percentile per-packet one-way delay: 217.556 ms

Loss rate: 1.28%

Run 2: Report of TCP BBR — Data Link





Run 3: Statistics of TCP BBR

Start at: 2019-10-03 19:02:20 End at: 2019-10-03 19:02:50 Local clock offset: -0.289 ms Remote clock offset: -0.109 ms

Below is generated by plot.py at 2019-10-03 20:32:58

Datalink statistics
-- Total of 1 flow:

Average throughput: 464.35 Mbit/s

95th percentile per-packet one-way delay: 96.384 ms

Loss rate: 0.52%

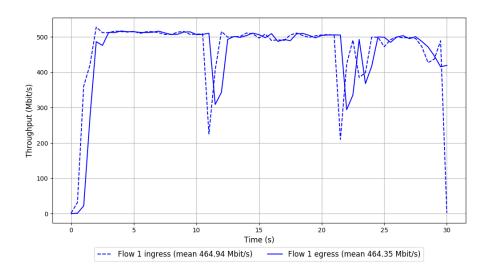
-- Flow 1:

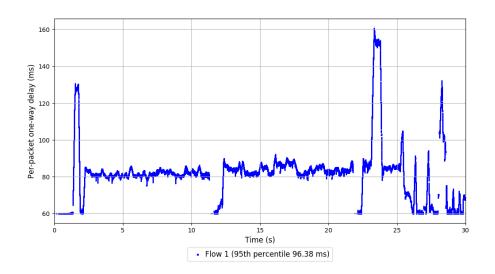
Average throughput: 464.35 Mbit/s

95th percentile per-packet one-way delay: 96.384 ms

Loss rate: 0.52%

Run 3: Report of TCP BBR — Data Link





Run 4: Statistics of TCP BBR

Start at: 2019-10-03 19:36:18 End at: 2019-10-03 19:36:48 Local clock offset: -0.038 ms Remote clock offset: -0.257 ms

Below is generated by plot.py at 2019-10-03 20:32:58

Datalink statistics
-- Total of 1 flow:

Average throughput: 456.36 Mbit/s

95th percentile per-packet one-way delay: 201.897 ms

Loss rate: 2.08%

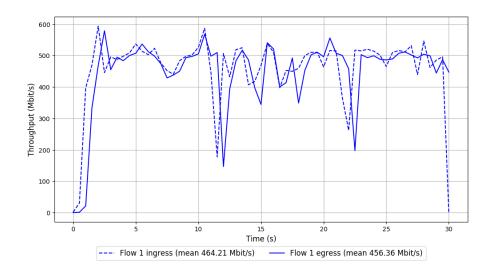
-- Flow 1:

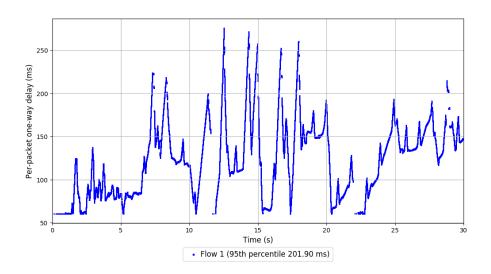
Average throughput: 456.36 Mbit/s

95th percentile per-packet one-way delay: 201.897 ms

Loss rate: 2.08%

Run 4: Report of TCP BBR — Data Link





Run 5: Statistics of TCP BBR

Start at: 2019-10-03 20:10:37 End at: 2019-10-03 20:11:07 Local clock offset: -0.242 ms Remote clock offset: -0.226 ms

Below is generated by plot.py at 2019-10-03 20:32:58

Datalink statistics
-- Total of 1 flow:

Average throughput: 459.14 Mbit/s

95th percentile per-packet one-way delay: 185.641 ms

Loss rate: 1.23%

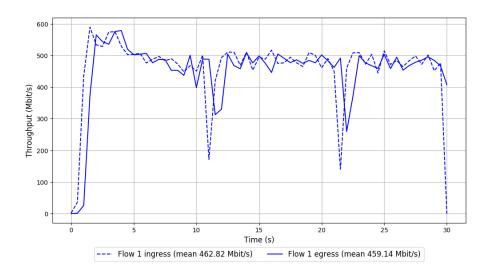
-- Flow 1:

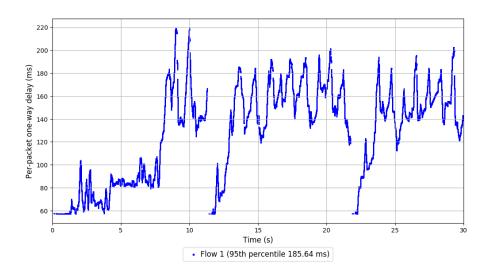
Average throughput: 459.14 Mbit/s

95th percentile per-packet one-way delay: 185.641 ms

Loss rate: 1.23%

Run 5: Report of TCP BBR — Data Link





Run 1: Statistics of Copa

Start at: 2019-10-03 17:36:21 End at: 2019-10-03 17:36:51 Local clock offset: 0.191 ms Remote clock offset: -0.079 ms

Below is generated by plot.py at 2019-10-03 20:32:58

Datalink statistics
-- Total of 1 flow:

Average throughput: 243.72 Mbit/s

95th percentile per-packet one-way delay: 75.499 ms

Loss rate: 0.42%

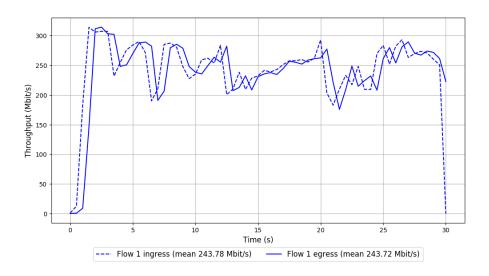
-- Flow 1:

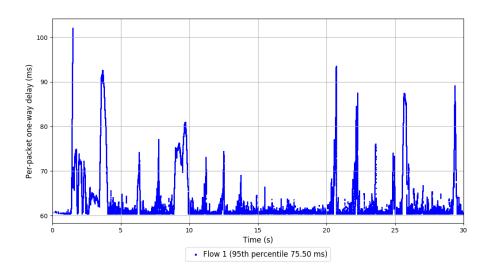
Average throughput: 243.72 Mbit/s

95th percentile per-packet one-way delay: 75.499 ms

Loss rate: 0.42%

Run 1: Report of Copa — Data Link





Run 2: Statistics of Copa

Start at: 2019-10-03 18:10:42 End at: 2019-10-03 18:11:12 Local clock offset: 0.121 ms Remote clock offset: 0.048 ms

Below is generated by plot.py at 2019-10-03 20:32:58

Datalink statistics
-- Total of 1 flow:

Average throughput: 230.10 Mbit/s

95th percentile per-packet one-way delay: 95.006 $\ensuremath{\mathsf{ms}}$

Loss rate: 0.61%

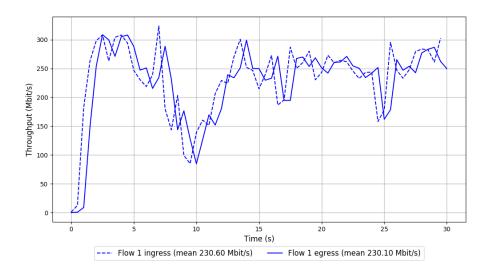
-- Flow 1:

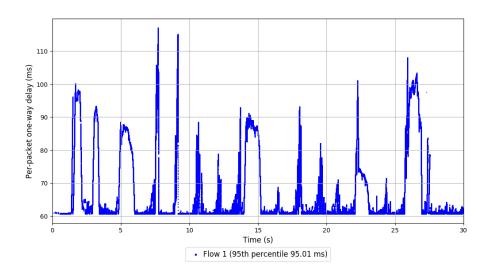
Average throughput: 230.10 Mbit/s

95th percentile per-packet one-way delay: 95.006 ms

Loss rate: 0.61%

Run 2: Report of Copa — Data Link





Run 3: Statistics of Copa

Start at: 2019-10-03 18:45:12 End at: 2019-10-03 18:45:42 Local clock offset: 0.246 ms Remote clock offset: -0.664 ms

Below is generated by plot.py at 2019-10-03 20:32:58

Datalink statistics
-- Total of 1 flow:

Average throughput: 197.08 Mbit/s

95th percentile per-packet one-way delay: 90.038 $\ensuremath{\mathrm{ms}}$

Loss rate: 0.17%

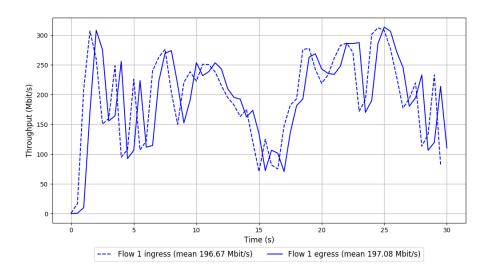
-- Flow 1:

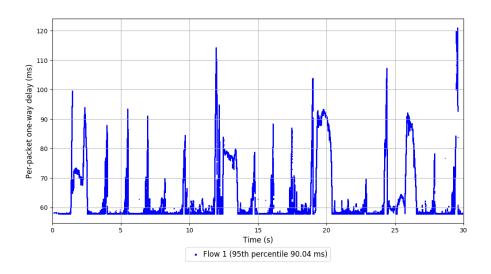
Average throughput: 197.08 Mbit/s

95th percentile per-packet one-way delay: 90.038 ms

Loss rate: 0.17%

Run 3: Report of Copa — Data Link





Run 4: Statistics of Copa

Start at: 2019-10-03 19:19:26 End at: 2019-10-03 19:19:56 Local clock offset: -0.181 ms Remote clock offset: -0.387 ms

Below is generated by plot.py at 2019-10-03 20:38:29

Datalink statistics
-- Total of 1 flow:

Average throughput: 213.45 Mbit/s

95th percentile per-packet one-way delay: 121.431 ms

Loss rate: 0.33%

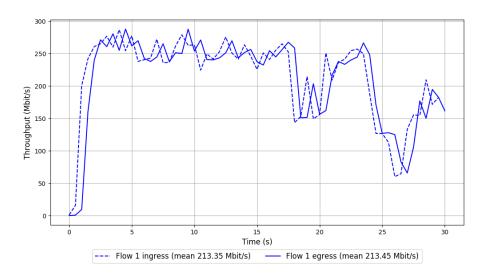
-- Flow 1:

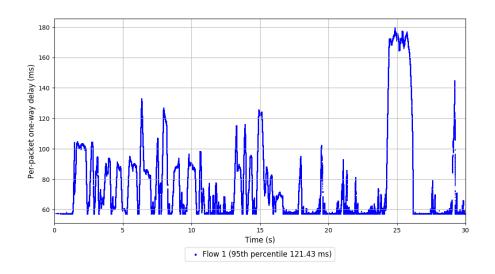
Average throughput: 213.45 Mbit/s

95th percentile per-packet one-way delay: 121.431 ms

Loss rate: 0.33%

Run 4: Report of Copa — Data Link





Run 5: Statistics of Copa

Start at: 2019-10-03 19:53:35 End at: 2019-10-03 19:54:05 Local clock offset: -0.41 ms Remote clock offset: -0.189 ms

Below is generated by plot.py at 2019-10-03 20:42:39

Datalink statistics
-- Total of 1 flow:

Average throughput: 270.94 Mbit/s

95th percentile per-packet one-way delay: 85.101 ms

Loss rate: 0.38%

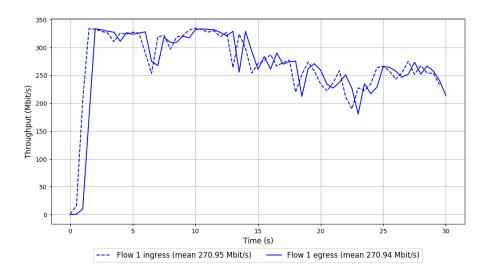
-- Flow 1:

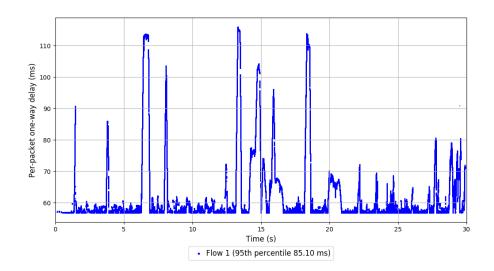
Average throughput: 270.94 Mbit/s

95th percentile per-packet one-way delay: 85.101 ms

Loss rate: 0.38%

Run 5: Report of Copa — Data Link





Run 1: Statistics of TCP Cubic

Start at: 2019-10-03 17:42:54 End at: 2019-10-03 17:43:24 Local clock offset: -0.032 ms Remote clock offset: -0.274 ms

Below is generated by plot.py at 2019-10-03 20:42:39

Datalink statistics
-- Total of 1 flow:

Average throughput: 462.82 Mbit/s

95th percentile per-packet one-way delay: 132.519 ms

Loss rate: 0.49%

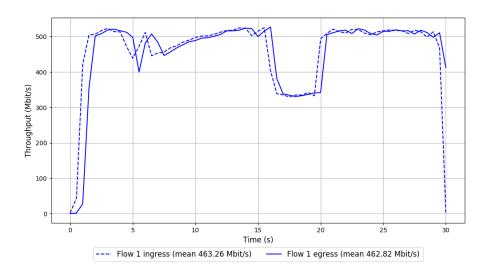
-- Flow 1:

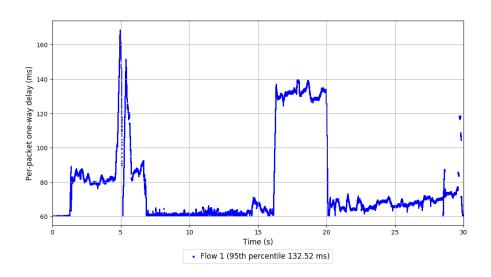
Average throughput: 462.82 Mbit/s

95th percentile per-packet one-way delay: 132.519 ms

Loss rate: 0.49%

Run 1: Report of TCP Cubic — Data Link





Run 2: Statistics of TCP Cubic

Start at: 2019-10-03 18:17:16 End at: 2019-10-03 18:17:46 Local clock offset: -0.029 ms Remote clock offset: -0.03 ms

Below is generated by plot.py at 2019-10-03 20:42:54

Datalink statistics
-- Total of 1 flow:

Average throughput: 484.45 Mbit/s

95th percentile per-packet one-way delay: 178.779 ms

Loss rate: 0.54%

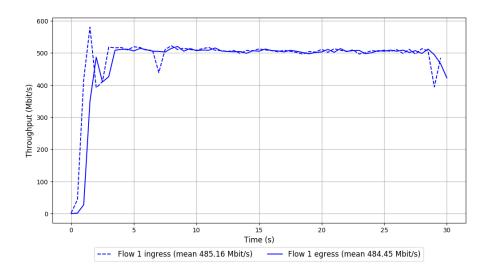
-- Flow 1:

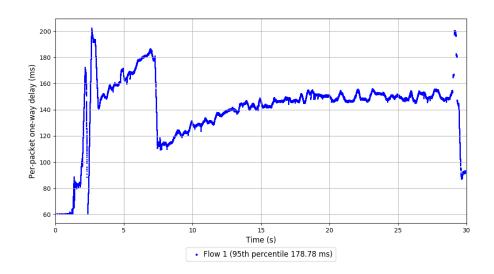
Average throughput: 484.45 Mbit/s

95th percentile per-packet one-way delay: 178.779 ms

Loss rate: 0.54%

Run 2: Report of TCP Cubic — Data Link





Run 3: Statistics of TCP Cubic

Start at: 2019-10-03 18:51:48 End at: 2019-10-03 18:52:18 Local clock offset: -0.015 ms Remote clock offset: -0.027 ms

Below is generated by plot.py at 2019-10-03 20:43:23

Datalink statistics
-- Total of 1 flow:

Average throughput: 514.15 Mbit/s

95th percentile per-packet one-way delay: 105.118 ms

Loss rate: 0.59%

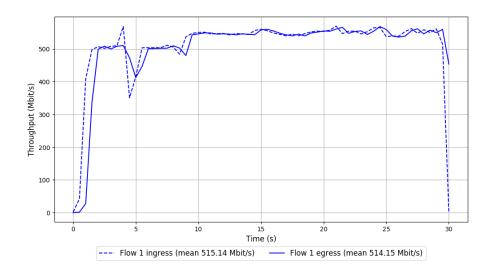
-- Flow 1:

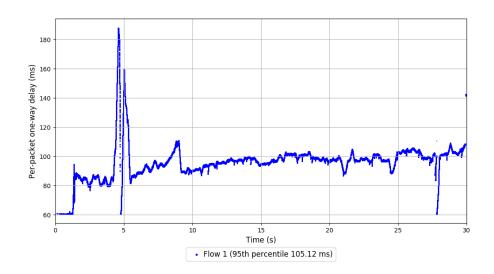
Average throughput: 514.15 Mbit/s

95th percentile per-packet one-way delay: 105.118 ms

Loss rate: 0.59%

Run 3: Report of TCP Cubic — Data Link





Run 4: Statistics of TCP Cubic

Start at: 2019-10-03 19:25:52 End at: 2019-10-03 19:26:22 Local clock offset: -0.26 ms Remote clock offset: -0.035 ms

Below is generated by plot.py at 2019-10-03 20:43:23

Datalink statistics
-- Total of 1 flow:

Average throughput: 414.90 Mbit/s

95th percentile per-packet one-way delay: 189.719 ms

Loss rate: 0.88%

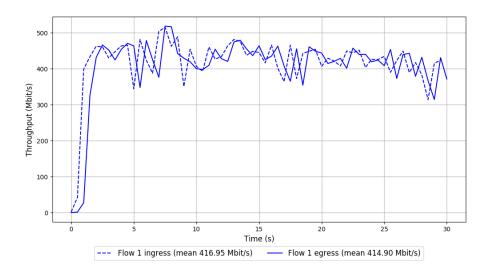
-- Flow 1:

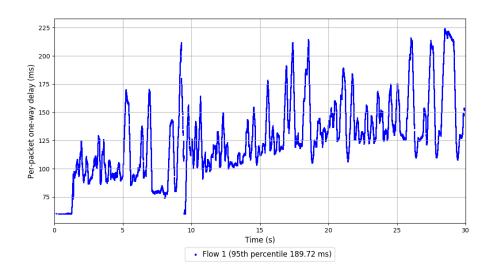
Average throughput: 414.90 Mbit/s

95th percentile per-packet one-way delay: 189.719 ms

Loss rate: 0.88%

Run 4: Report of TCP Cubic — Data Link





Run 5: Statistics of TCP Cubic

Start at: 2019-10-03 20:00:11 End at: 2019-10-03 20:00:41 Local clock offset: 0.364 ms Remote clock offset: -0.072 ms

Below is generated by plot.py at 2019-10-03 20:43:23

Datalink statistics
-- Total of 1 flow:

Average throughput: 466.65 Mbit/s

95th percentile per-packet one-way delay: 167.027 ms

Loss rate: 0.72%

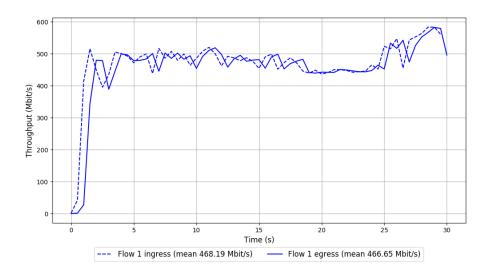
-- Flow 1:

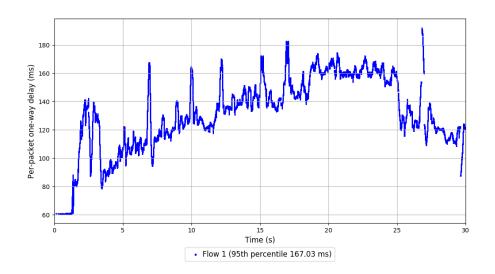
Average throughput: 466.65 Mbit/s

95th percentile per-packet one-way delay: 167.027 ms

Loss rate: 0.72%

Run 5: Report of TCP Cubic — Data Link





Run 1: Statistics of FillP

Start at: 2019-10-03 17:33:06 End at: 2019-10-03 17:33:36 Local clock offset: -0.021 ms Remote clock offset: 0.034 ms

Below is generated by plot.py at 2019-10-03 20:53:34

Datalink statistics
-- Total of 1 flow:

Average throughput: 814.70 Mbit/s

95th percentile per-packet one-way delay: 128.714 ms

Loss rate: 5.04%

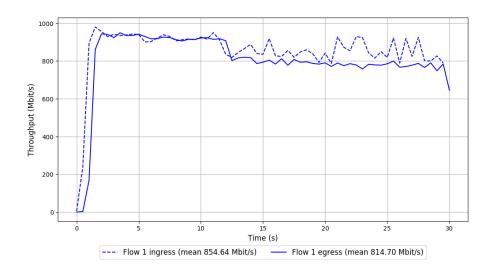
-- Flow 1:

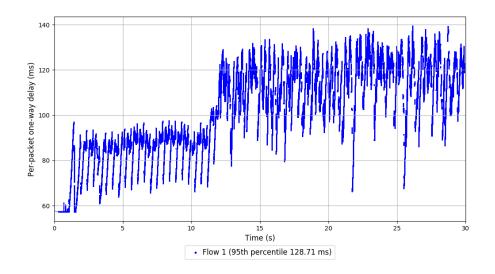
Average throughput: 814.70 Mbit/s

95th percentile per-packet one-way delay: 128.714 ms

Loss rate: 5.04%

Run 1: Report of FillP — Data Link





Run 2: Statistics of FillP

Start at: 2019-10-03 18:07:29 End at: 2019-10-03 18:08:00 Local clock offset: 0.203 ms Remote clock offset: -0.017 ms

Below is generated by plot.py at 2019-10-03 21:00:52

Datalink statistics
-- Total of 1 flow:

Average throughput: 805.25 Mbit/s

95th percentile per-packet one-way delay: 119.718 ms

Loss rate: 1.80%

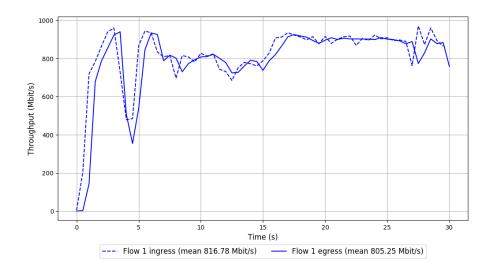
-- Flow 1:

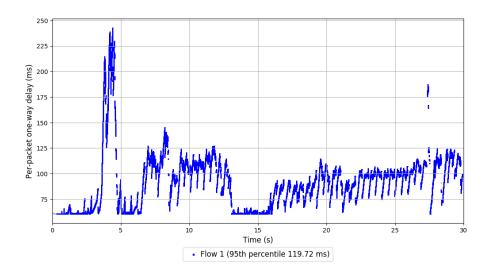
Average throughput: 805.25 Mbit/s

95th percentile per-packet one-way delay: 119.718 ms

Loss rate: 1.80%

Run 2: Report of FillP — Data Link





Run 3: Statistics of FillP

Start at: 2019-10-03 18:42:00 End at: 2019-10-03 18:42:30 Local clock offset: -0.094 ms Remote clock offset: 0.099 ms

Below is generated by plot.py at 2019-10-03 21:03:00

Datalink statistics
-- Total of 1 flow:

Average throughput: 820.93 Mbit/s

95th percentile per-packet one-way delay: 115.387 ms

Loss rate: 1.03%

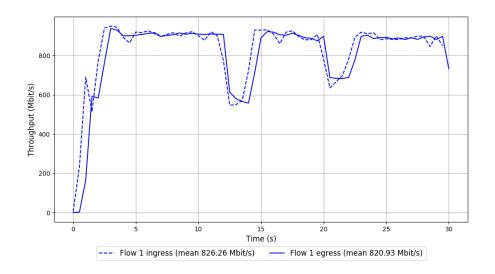
-- Flow 1:

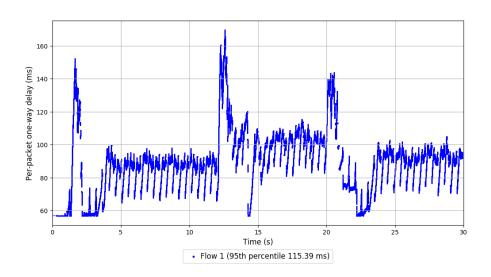
Average throughput: 820.93 Mbit/s

95th percentile per-packet one-way delay: 115.387 ms

Loss rate: 1.03%

Run 3: Report of FillP — Data Link





Run 4: Statistics of FillP

Start at: 2019-10-03 19:16:16 End at: 2019-10-03 19:16:46 Local clock offset: -0.389 ms Remote clock offset: -0.055 ms

Below is generated by plot.py at 2019-10-03 21:03:00

Datalink statistics
-- Total of 1 flow:

Average throughput: 744.01 Mbit/s

95th percentile per-packet one-way delay: 131.251 $\ensuremath{\mathrm{ms}}$

Loss rate: 4.18%

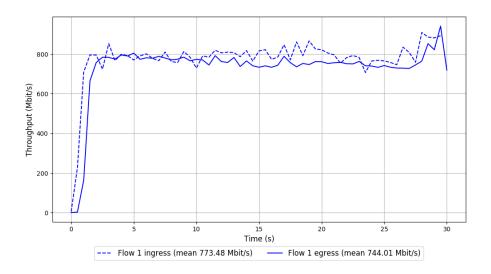
-- Flow 1:

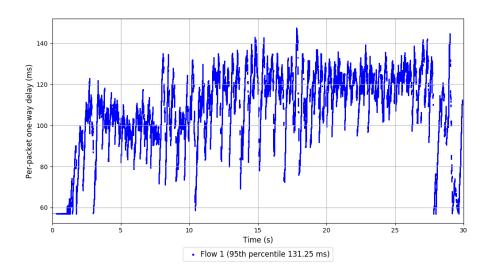
Average throughput: 744.01 Mbit/s

95th percentile per-packet one-way delay: 131.251 ms

Loss rate: 4.18%

Run 4: Report of FillP — Data Link





Run 5: Statistics of FillP

Start at: 2019-10-03 19:50:26 End at: 2019-10-03 19:50:56 Local clock offset: -0.466 ms Remote clock offset: -0.163 ms

Below is generated by plot.py at 2019-10-03 21:03:00

Datalink statistics
-- Total of 1 flow:

Average throughput: 744.16 Mbit/s

95th percentile per-packet one-way delay: 131.131 $\ensuremath{\mathtt{ms}}$

Loss rate: 4.63%

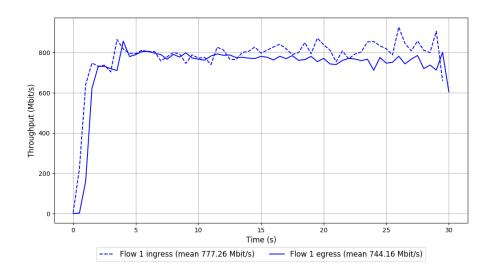
-- Flow 1:

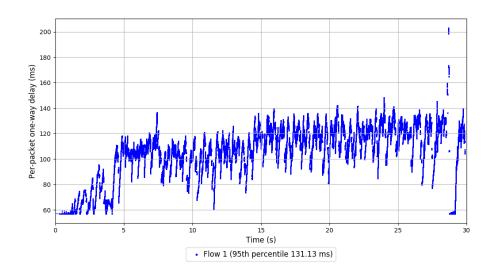
Average throughput: 744.16 Mbit/s

95th percentile per-packet one-way delay: 131.131 ms

Loss rate: 4.63%

Run 5: Report of FillP — Data Link





Run 1: Statistics of FillP-Sheep

Start at: 2019-10-03 17:26:16 End at: 2019-10-03 17:26:46 Local clock offset: -0.222 ms Remote clock offset: -0.642 ms

Below is generated by plot.py at 2019-10-03 21:03:00

Datalink statistics
-- Total of 1 flow:

Average throughput: 555.17 Mbit/s

95th percentile per-packet one-way delay: 165.695 ms

Loss rate: 4.12%

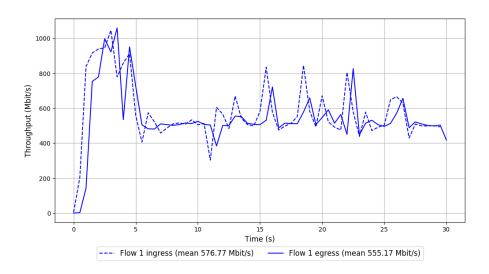
-- Flow 1:

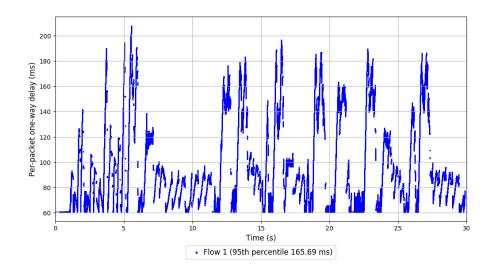
Average throughput: 555.17 Mbit/s

95th percentile per-packet one-way delay: 165.695 ms

Loss rate: 4.12%

Run 1: Report of FillP-Sheep — Data Link





Run 2: Statistics of FillP-Sheep

Start at: 2019-10-03 18:00:35 End at: 2019-10-03 18:01:05 Local clock offset: -0.312 ms Remote clock offset: 0.072 ms

Below is generated by plot.py at 2019-10-03 21:03:00

Datalink statistics
-- Total of 1 flow:

Average throughput: 640.55 Mbit/s

95th percentile per-packet one-way delay: 165.379 ms

Loss rate: 5.21%

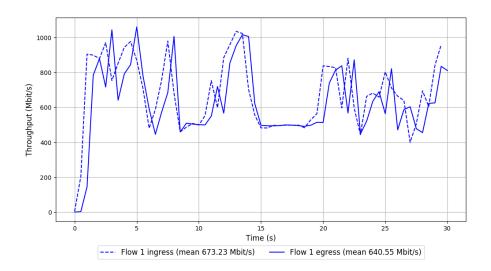
-- Flow 1:

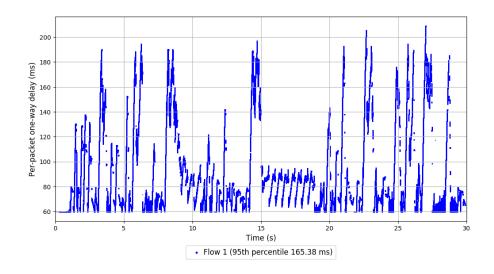
Average throughput: 640.55 Mbit/s

95th percentile per-packet one-way delay: 165.379 ms

Loss rate: 5.21%

Run 2: Report of FillP-Sheep — Data Link





Run 3: Statistics of FillP-Sheep

Start at: 2019-10-03 18:35:03 End at: 2019-10-03 18:35:33 Local clock offset: -0.444 ms Remote clock offset: 0.046 ms

Below is generated by plot.py at 2019-10-03 21:03:22

Datalink statistics
-- Total of 1 flow:

Average throughput: 769.40 Mbit/s

95th percentile per-packet one-way delay: 100.754 ms

Loss rate: 1.04%

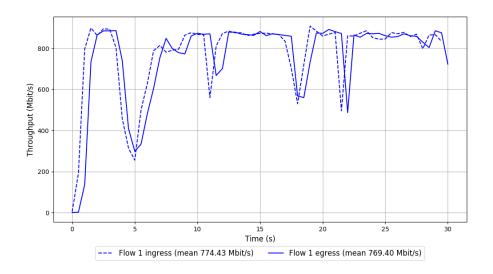
-- Flow 1:

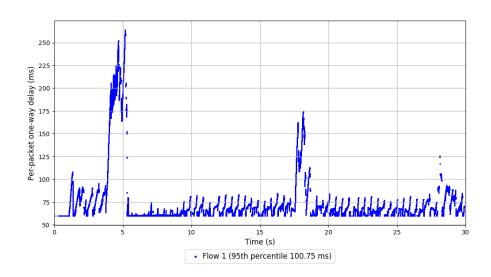
Average throughput: 769.40 Mbit/s

95th percentile per-packet one-way delay: 100.754 ms

Loss rate: 1.04%

Run 3: Report of FillP-Sheep — Data Link





Run 4: Statistics of FillP-Sheep

Start at: 2019-10-03 19:09:22 End at: 2019-10-03 19:09:52 Local clock offset: -0.035 ms Remote clock offset: -0.08 ms

Below is generated by plot.py at 2019-10-03 21:15:54

Datalink statistics
-- Total of 1 flow:

Average throughput: 802.06 Mbit/s

95th percentile per-packet one-way delay: 102.731 ms

Loss rate: 0.50%

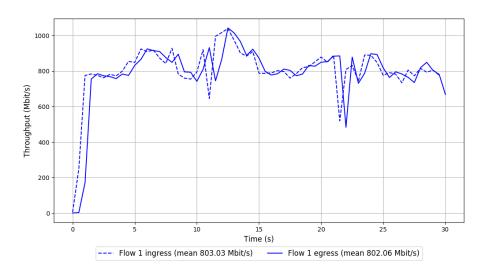
-- Flow 1:

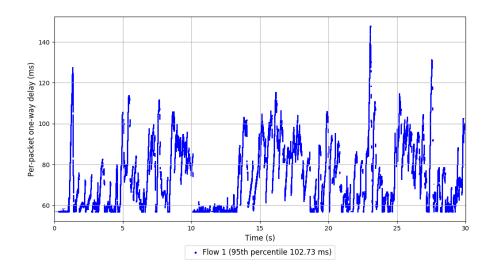
Average throughput: 802.06 Mbit/s

95th percentile per-packet one-way delay: 102.731 ms

Loss rate: 0.50%

Run 4: Report of FillP-Sheep — Data Link





Run 5: Statistics of FillP-Sheep

Start at: 2019-10-03 19:43:26 End at: 2019-10-03 19:43:56 Local clock offset: 0.175 ms Remote clock offset: -0.202 ms

Below is generated by plot.py at 2019-10-03 21:18:40

Datalink statistics
-- Total of 1 flow:

Average throughput: 796.40 Mbit/s

95th percentile per-packet one-way delay: 101.694 ms

Loss rate: 0.51%

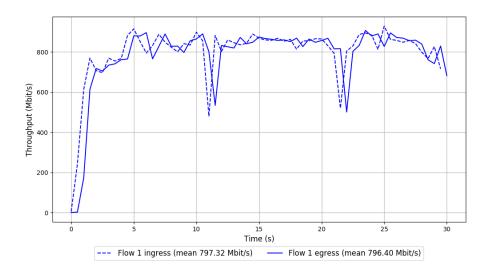
-- Flow 1:

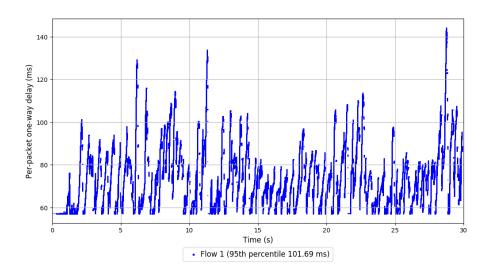
Average throughput: 796.40 Mbit/s

95th percentile per-packet one-way delay: 101.694 ms

Loss rate: 0.51%

Run 5: Report of FillP-Sheep — Data Link





Run 1: Statistics of Indigo

Start at: 2019-10-03 17:45:59 End at: 2019-10-03 17:46:29 Local clock offset: 0.352 ms Remote clock offset: -0.148 ms

Below is generated by plot.py at 2019-10-03 21:18:40

Datalink statistics
-- Total of 1 flow:

Average throughput: 175.98 Mbit/s

95th percentile per-packet one-way delay: $63.031~\mathrm{ms}$

Loss rate: 0.48%

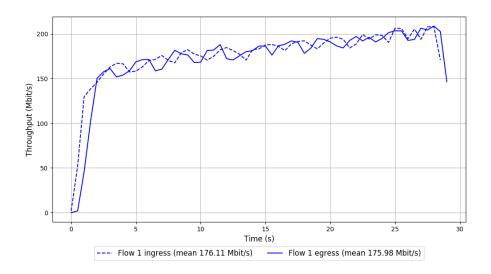
-- Flow 1:

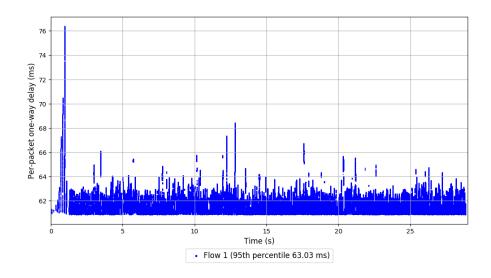
Average throughput: 175.98 Mbit/s

95th percentile per-packet one-way delay: 63.031 ms

Loss rate: 0.48%

Run 1: Report of Indigo — Data Link





Run 2: Statistics of Indigo

Start at: 2019-10-03 18:20:23 End at: 2019-10-03 18:20:53 Local clock offset: -0.015 ms Remote clock offset: -0.707 ms

Below is generated by plot.py at 2019-10-03 21:18:40

Datalink statistics
-- Total of 1 flow:

Average throughput: 220.32 Mbit/s

95th percentile per-packet one-way delay: $59.538~\mathrm{ms}$

Loss rate: 0.46%

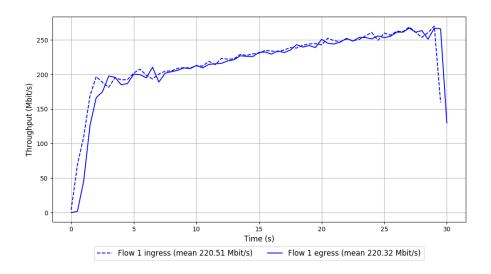
-- Flow 1:

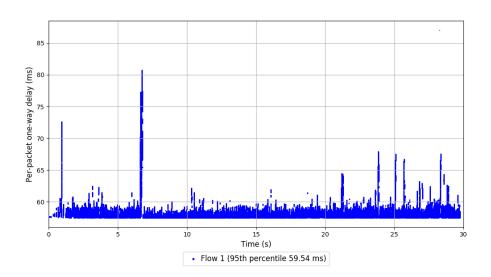
Average throughput: 220.32 Mbit/s

95th percentile per-packet one-way delay: 59.538 ms

Loss rate: 0.46%

Run 2: Report of Indigo — Data Link





Run 3: Statistics of Indigo

Start at: 2019-10-03 18:54:55 End at: 2019-10-03 18:55:25 Local clock offset: -0.048 ms Remote clock offset: -0.168 ms

Below is generated by plot.py at 2019-10-03 21:18:40

Datalink statistics
-- Total of 1 flow:

Average throughput: 221.73 Mbit/s

95th percentile per-packet one-way delay: $62.174~\mathrm{ms}$

Loss rate: 0.40%

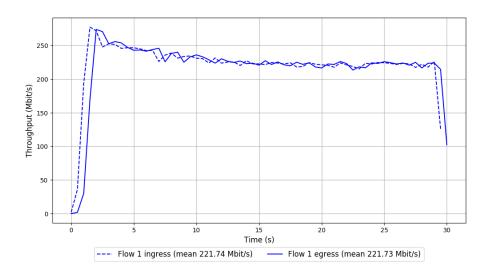
-- Flow 1:

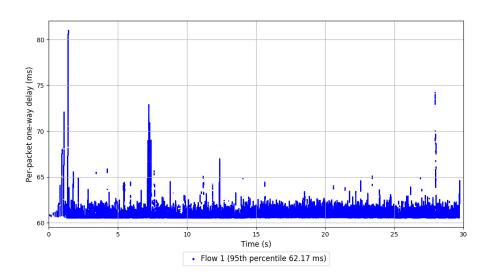
Average throughput: 221.73 Mbit/s

95th percentile per-packet one-way delay: 62.174 ms

Loss rate: 0.40%

Run 3: Report of Indigo — Data Link





Run 4: Statistics of Indigo

Start at: 2019-10-03 19:28:51 End at: 2019-10-03 19:29:21 Local clock offset: 0.027 ms Remote clock offset: -0.016 ms

Below is generated by plot.py at 2019-10-03 21:18:40

Datalink statistics
-- Total of 1 flow:

Average throughput: 215.93 Mbit/s

95th percentile per-packet one-way delay: 62.644 ms

Loss rate: 0.45%

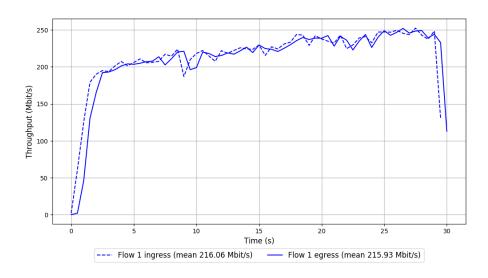
-- Flow 1:

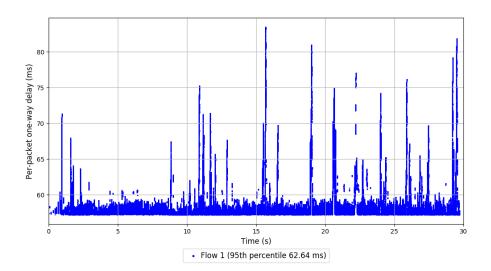
Average throughput: 215.93 Mbit/s

95th percentile per-packet one-way delay: 62.644 ms

Loss rate: 0.45%

Run 4: Report of Indigo — Data Link





Run 5: Statistics of Indigo

Start at: 2019-10-03 20:03:11 End at: 2019-10-03 20:03:41 Local clock offset: 0.325 ms Remote clock offset: 0.019 ms

Below is generated by plot.py at 2019-10-03 21:18:40

Datalink statistics
-- Total of 1 flow:

Average throughput: 194.47 Mbit/s

95th percentile per-packet one-way delay: 66.351 ms

Loss rate: 0.49%

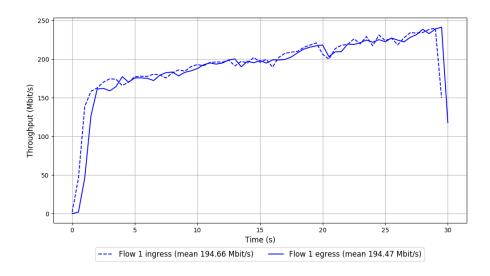
-- Flow 1:

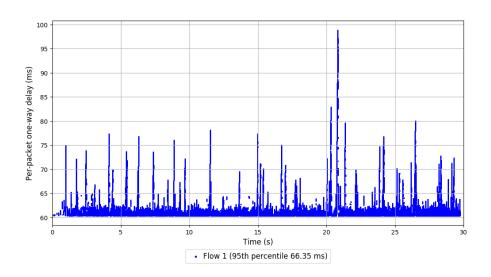
Average throughput: 194.47 Mbit/s

95th percentile per-packet one-way delay: 66.351 ms

Loss rate: 0.49%

Run 5: Report of Indigo — Data Link





Run 1: Statistics of Indigo-MusesC3

Start at: 2019-10-03 17:44:24 End at: 2019-10-03 17:44:54 Local clock offset: -0.251 ms Remote clock offset: -0.07 ms

Below is generated by plot.py at 2019-10-03 21:18:40

Datalink statistics
-- Total of 1 flow:

Average throughput: 579.30 Mbit/s

95th percentile per-packet one-way delay: $80.626~\mathrm{ms}$

Loss rate: 0.47%

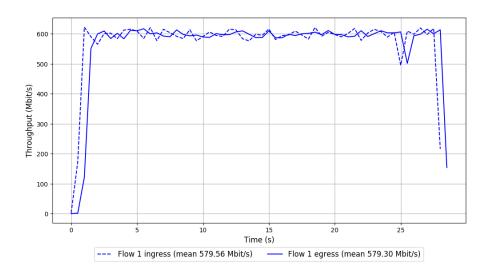
-- Flow 1:

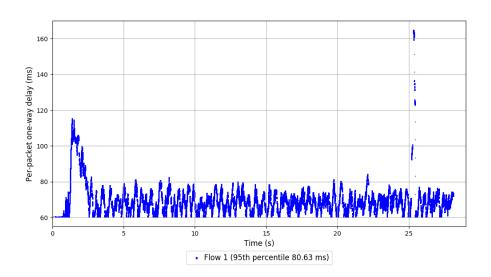
Average throughput: 579.30 Mbit/s

95th percentile per-packet one-way delay: 80.626 ms

Loss rate: 0.47%

Run 1: Report of Indigo-MusesC3 — Data Link





Run 2: Statistics of Indigo-MusesC3

Start at: 2019-10-03 18:18:48 End at: 2019-10-03 18:19:18 Local clock offset: -0.457 ms Remote clock offset: 0.01 ms

Below is generated by plot.py at 2019-10-03 21:19:38

Datalink statistics
-- Total of 1 flow:

Average throughput: 582.17 Mbit/s

95th percentile per-packet one-way delay: 77.369 ms

Loss rate: 0.48%

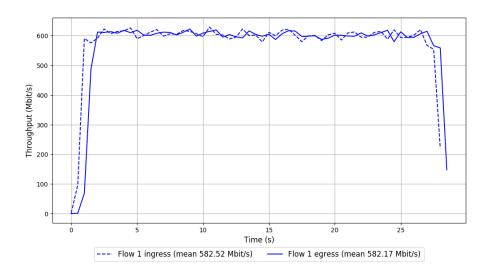
-- Flow 1:

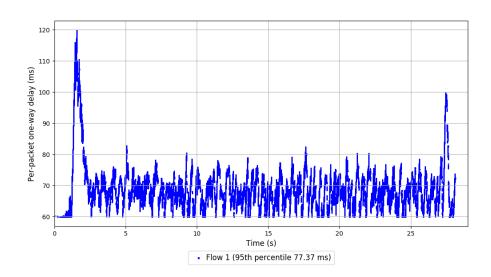
Average throughput: 582.17 Mbit/s

95th percentile per-packet one-way delay: 77.369 ms

Loss rate: 0.48%

Run 2: Report of Indigo-MusesC3 — Data Link





Run 3: Statistics of Indigo-MusesC3

Start at: 2019-10-03 18:53:21 End at: 2019-10-03 18:53:51 Local clock offset: -0.032 ms Remote clock offset: -0.055 ms

Below is generated by plot.py at 2019-10-03 21:22:07

Datalink statistics
-- Total of 1 flow:

Average throughput: 584.03 Mbit/s

95th percentile per-packet one-way delay: $77.074~\mathrm{ms}$

Loss rate: 0.13%

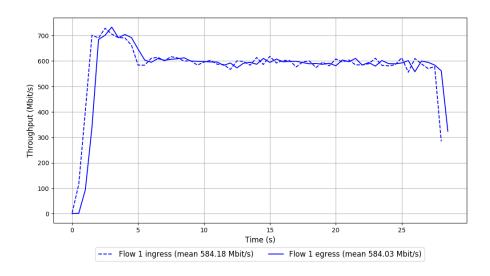
-- Flow 1:

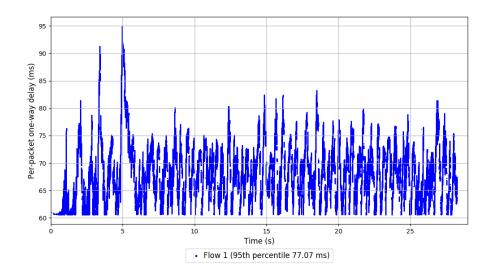
Average throughput: 584.03 Mbit/s

95th percentile per-packet one-way delay: 77.074 ms

Loss rate: 0.13%

Run 3: Report of Indigo-MusesC3 — Data Link





Run 4: Statistics of Indigo-MusesC3

Start at: 2019-10-03 19:27:20 End at: 2019-10-03 19:27:50 Local clock offset: 0.242 ms Remote clock offset: -0.131 ms

Below is generated by plot.py at 2019-10-03 21:22:07

Datalink statistics
-- Total of 1 flow:

Average throughput: 500.09 Mbit/s

95th percentile per-packet one-way delay: 94.246 $\ensuremath{\mathsf{ms}}$

Loss rate: 0.46%

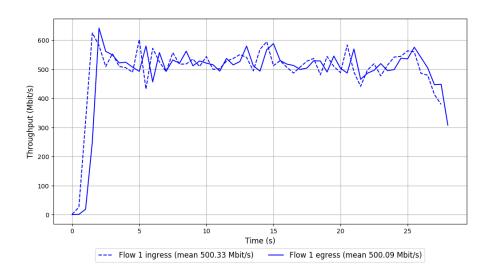
-- Flow 1:

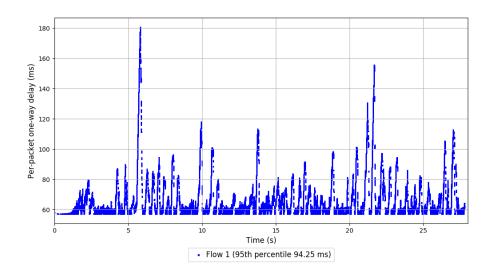
Average throughput: 500.09 Mbit/s

95th percentile per-packet one-way delay: 94.246 ms

Loss rate: 0.46%

Run 4: Report of Indigo-MusesC3 — Data Link





Run 5: Statistics of Indigo-MusesC3

Start at: 2019-10-03 20:01:41 End at: 2019-10-03 20:02:11 Local clock offset: -0.032 ms Remote clock offset: -0.144 ms

Below is generated by plot.py at 2019-10-03 21:22:07

Datalink statistics
-- Total of 1 flow:

Average throughput: 488.16 Mbit/s

95th percentile per-packet one-way delay: $88.573~\mathrm{ms}$

Loss rate: 0.45%

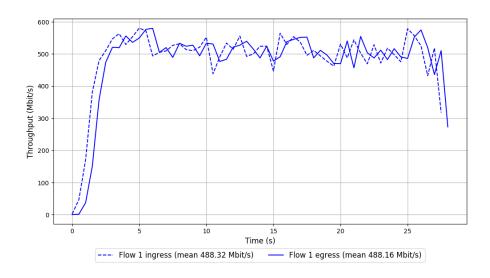
-- Flow 1:

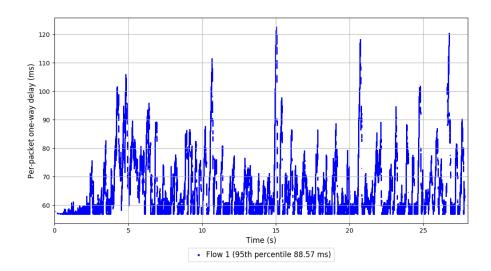
Average throughput: 488.16 Mbit/s

95th percentile per-packet one-way delay: 88.573 ms

Loss rate: 0.45%

Run 5: Report of Indigo-MusesC3 — Data Link





Run 1: Statistics of Indigo-MusesC5

Start at: 2019-10-03 17:34:47 End at: 2019-10-03 17:35:17 Local clock offset: -0.031 ms Remote clock offset: 0.047 ms

Below is generated by plot.py at 2019-10-03 21:23:55

Datalink statistics
-- Total of 1 flow:

Average throughput: 573.56 Mbit/s

95th percentile per-packet one-way delay: 105.368 ms

Loss rate: 0.53%

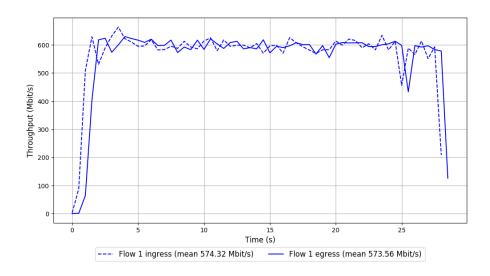
-- Flow 1:

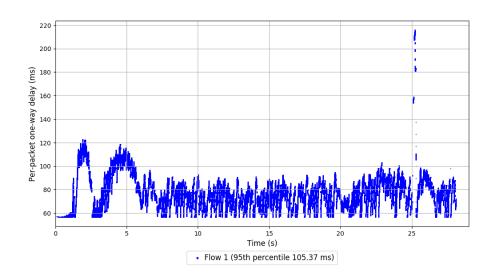
Average throughput: 573.56 Mbit/s

95th percentile per-packet one-way delay: 105.368 ms

Loss rate: 0.53%

Run 1: Report of Indigo-MusesC5 — Data Link





Run 2: Statistics of Indigo-MusesC5

Start at: 2019-10-03 18:09:09 End at: 2019-10-03 18:09:39 Local clock offset: -0.046 ms Remote clock offset: 0.023 ms

Below is generated by plot.py at 2019-10-03 21:28:03

Datalink statistics
-- Total of 1 flow:

Average throughput: 557.48 Mbit/s

95th percentile per-packet one-way delay: 146.574 ms

Loss rate: 0.81%

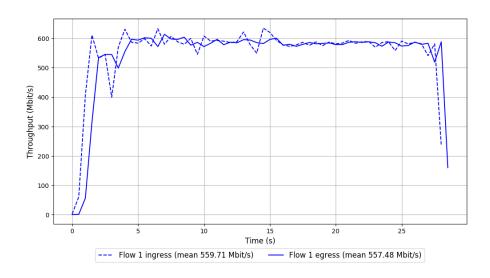
-- Flow 1:

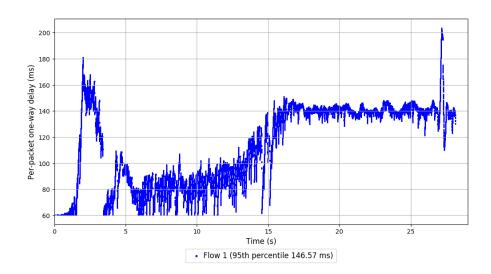
Average throughput: 557.48 Mbit/s

95th percentile per-packet one-way delay: 146.574 ms

Loss rate: 0.81%

Run 2: Report of Indigo-MusesC5 — Data Link





Run 3: Statistics of Indigo-MusesC5

Start at: 2019-10-03 18:43:40 End at: 2019-10-03 18:44:10 Local clock offset: 0.176 ms Remote clock offset: 0.071 ms

Below is generated by plot.py at 2019-10-03 21:28:04

Datalink statistics
-- Total of 1 flow:

Average throughput: 523.37 Mbit/s

95th percentile per-packet one-way delay: 137.855 ms

Loss rate: 0.62%

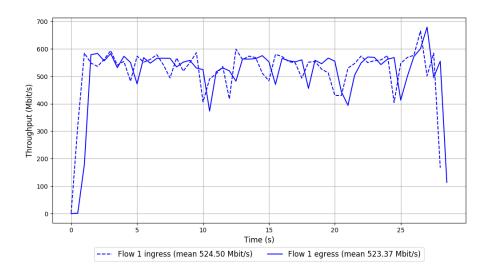
-- Flow 1:

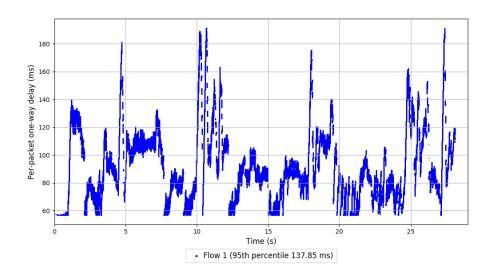
Average throughput: 523.37 Mbit/s

95th percentile per-packet one-way delay: 137.855 ms

Loss rate: 0.62%

Run 3: Report of Indigo-MusesC5 — Data Link





Run 4: Statistics of Indigo-MusesC5

Start at: 2019-10-03 19:17:54 End at: 2019-10-03 19:18:24 Local clock offset: 0.12 ms Remote clock offset: -0.196 ms

Below is generated by plot.py at 2019-10-03 21:30:27

Datalink statistics
-- Total of 1 flow:

Average throughput: 539.91 Mbit/s

95th percentile per-packet one-way delay: 121.812 ms

Loss rate: 0.49%

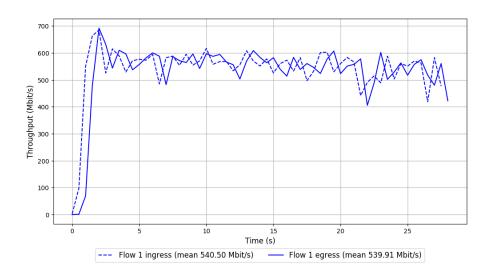
-- Flow 1:

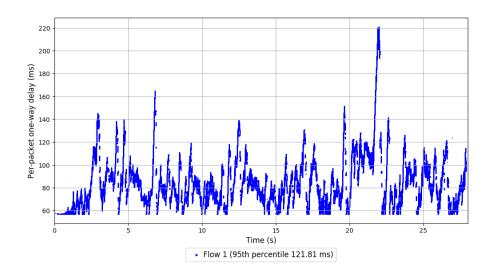
Average throughput: 539.91 Mbit/s

95th percentile per-packet one-way delay: 121.812 ms

Loss rate: 0.49%

Run 4: Report of Indigo-MusesC5 — Data Link





Run 5: Statistics of Indigo-MusesC5

Start at: 2019-10-03 19:52:04 End at: 2019-10-03 19:52:34 Local clock offset: 0.39 ms Remote clock offset: -0.043 ms

Below is generated by plot.py at 2019-10-03 21:31:01

Datalink statistics
-- Total of 1 flow:

Average throughput: 521.94 Mbit/s

95th percentile per-packet one-way delay: 139.106 ms

Loss rate: 0.70%

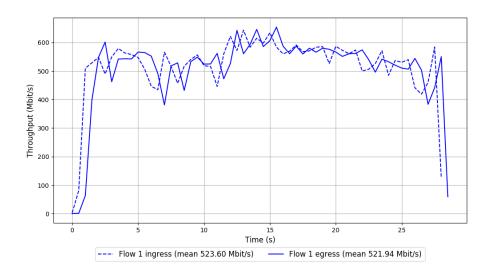
-- Flow 1:

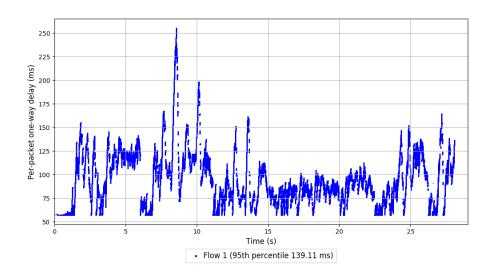
Average throughput: 521.94 Mbit/s

95th percentile per-packet one-way delay: 139.106 ms

Loss rate: 0.70%

Run 5: Report of Indigo-MusesC5 — Data Link





Run 1: Statistics of Indigo-MusesD

Start at: 2019-10-03 17:47:23 End at: 2019-10-03 17:47:53 Local clock offset: 0.16 ms Remote clock offset: -0.064 ms

Below is generated by plot.py at 2019-10-03 21:33:11

Datalink statistics
-- Total of 1 flow:

Average throughput: 513.10 Mbit/s

95th percentile per-packet one-way delay: 103.541 ms

Loss rate: 0.55%

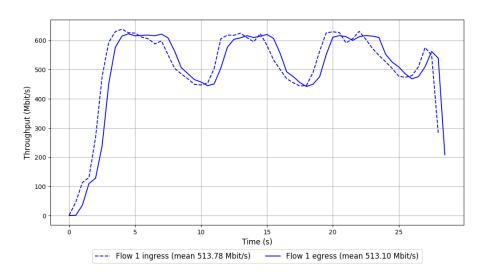
-- Flow 1:

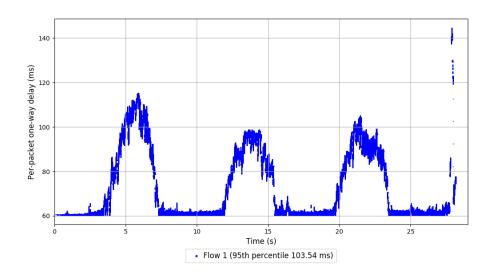
Average throughput: 513.10 Mbit/s

95th percentile per-packet one-way delay: 103.541 ms

Loss rate: 0.55%

Run 1: Report of Indigo-MusesD — Data Link





Run 2: Statistics of Indigo-MusesD

Start at: 2019-10-03 18:21:51 End at: 2019-10-03 18:22:21 Local clock offset: 0.007 ms Remote clock offset: 0.01 ms

Below is generated by plot.py at 2019-10-03 21:33:29

Datalink statistics
-- Total of 1 flow:

Average throughput: 531.11 Mbit/s

95th percentile per-packet one-way delay: $89.925~\mathrm{ms}$

Loss rate: 0.34%

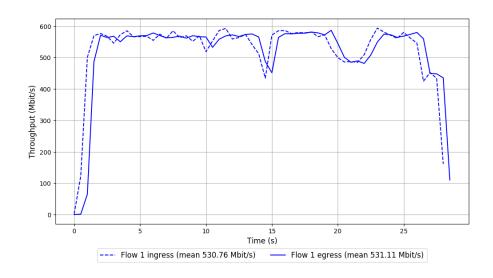
-- Flow 1:

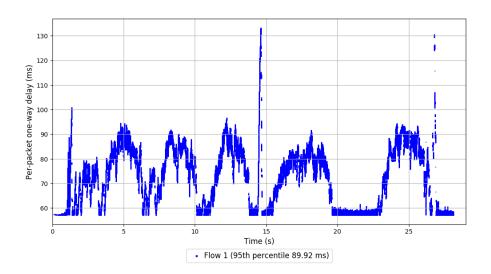
Average throughput: 531.11 Mbit/s

95th percentile per-packet one-way delay: 89.925 ms

Loss rate: 0.34%

Run 2: Report of Indigo-MusesD — Data Link





Run 3: Statistics of Indigo-MusesD

Start at: 2019-10-03 18:56:24 End at: 2019-10-03 18:56:54 Local clock offset: -0.002 ms Remote clock offset: 0.109 ms

Below is generated by plot.py at 2019-10-03 21:33:48

Datalink statistics
-- Total of 1 flow:

Average throughput: 535.09 Mbit/s

95th percentile per-packet one-way delay: 130.959 ms

Loss rate: 0.41%

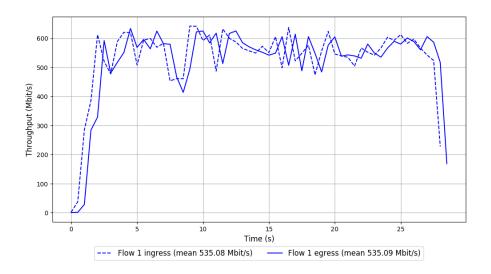
-- Flow 1:

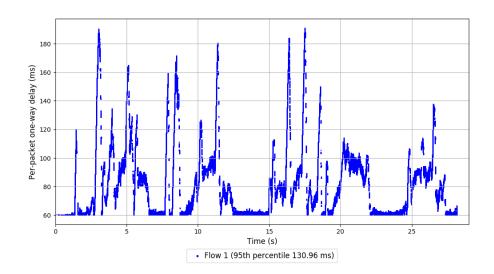
Average throughput: 535.09 Mbit/s

95th percentile per-packet one-way delay: 130.959 ms

Loss rate: 0.41%

Run 3: Report of Indigo-MusesD — Data Link





Run 4: Statistics of Indigo-MusesD

Start at: 2019-10-03 19:30:19 End at: 2019-10-03 19:30:49 Local clock offset: -0.04 ms Remote clock offset: -0.118 ms

Below is generated by plot.py at 2019-10-03 21:35:00

Datalink statistics
-- Total of 1 flow:

Average throughput: 506.21 Mbit/s

95th percentile per-packet one-way delay: 113.813 ms

Loss rate: 0.51%

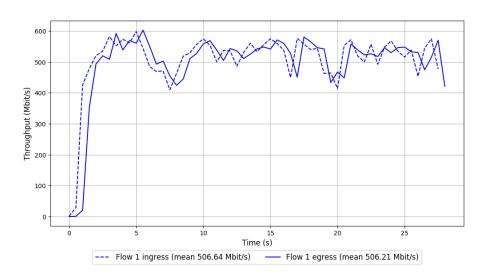
-- Flow 1:

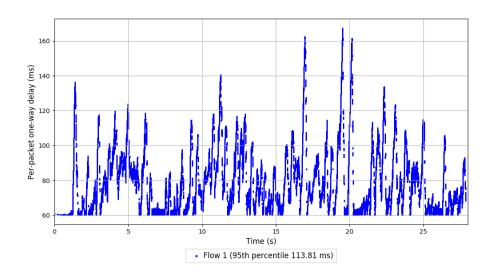
Average throughput: 506.21 Mbit/s

95th percentile per-packet one-way delay: 113.813 ms

Loss rate: 0.51%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-10-03 20:04:37 End at: 2019-10-03 20:05:07 Local clock offset: 0.182 ms Remote clock offset: 0.013 ms

Below is generated by plot.py at 2019-10-03 21:37:27

Datalink statistics
-- Total of 1 flow:

Average throughput: 466.42 Mbit/s

95th percentile per-packet one-way delay: 99.035 $\ensuremath{\mathsf{ms}}$

Loss rate: 0.42%

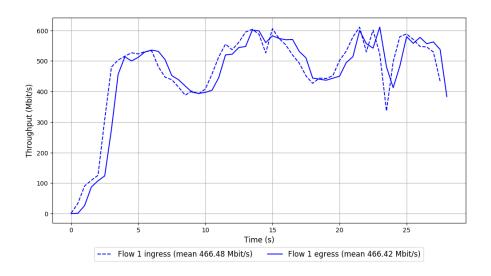
-- Flow 1:

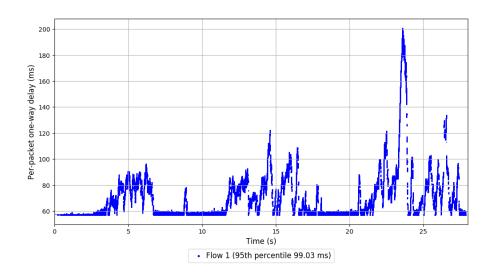
Average throughput: 466.42 Mbit/s

95th percentile per-packet one-way delay: 99.035 ms

Loss rate: 0.42%

Run 5: Report of Indigo-MusesD — Data Link





Run 1: Statistics of Indigo-MusesT

Start at: 2019-10-03 17:24:42 End at: 2019-10-03 17:25:12 Local clock offset: -0.459 ms Remote clock offset: 0.061 ms

Below is generated by plot.py at 2019-10-03 21:40:46

Datalink statistics
-- Total of 1 flow:

Average throughput: 573.66 Mbit/s

95th percentile per-packet one-way delay: 143.733 ms

Loss rate: 0.55%

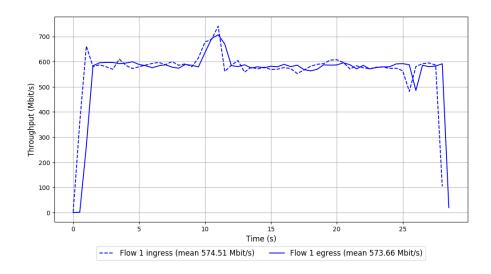
-- Flow 1:

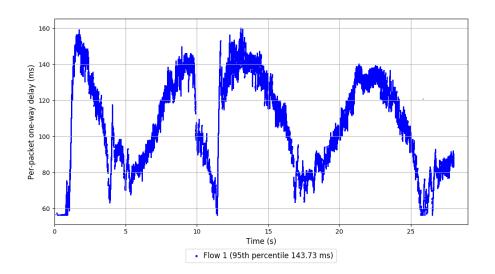
Average throughput: 573.66 Mbit/s

95th percentile per-packet one-way delay: 143.733 ms

Loss rate: 0.55%

Run 1: Report of Indigo-MusesT — Data Link





Run 2: Statistics of Indigo-MusesT

Start at: 2019-10-03 17:59:02 End at: 2019-10-03 17:59:32 Local clock offset: 0.401 ms Remote clock offset: -0.184 ms

Below is generated by plot.py at 2019-10-03 21:42:13

Datalink statistics
-- Total of 1 flow:

Average throughput: 539.11 Mbit/s

95th percentile per-packet one-way delay: 146.218 ms

Loss rate: 0.60%

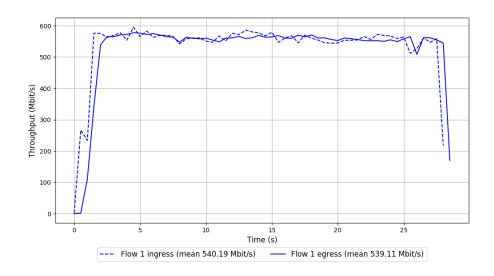
-- Flow 1:

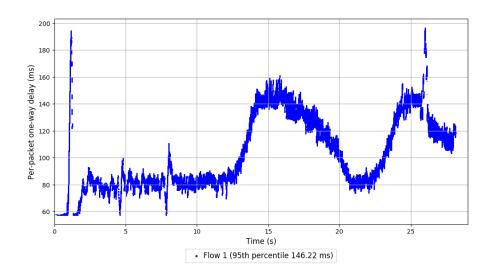
Average throughput: 539.11 Mbit/s

95th percentile per-packet one-way delay: 146.218 ms

Loss rate: 0.60%

Run 2: Report of Indigo-MusesT — Data Link





Run 3: Statistics of Indigo-MusesT

Start at: 2019-10-03 18:33:28 End at: 2019-10-03 18:33:58 Local clock offset: -0.485 ms Remote clock offset: 0.058 ms

Below is generated by plot.py at 2019-10-03 21:43:11

Datalink statistics
-- Total of 1 flow:

Average throughput: 578.02 Mbit/s

95th percentile per-packet one-way delay: 150.078 ms

Loss rate: 0.73%

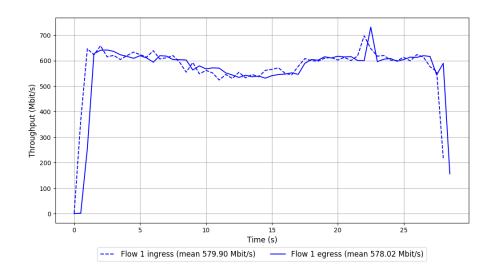
-- Flow 1:

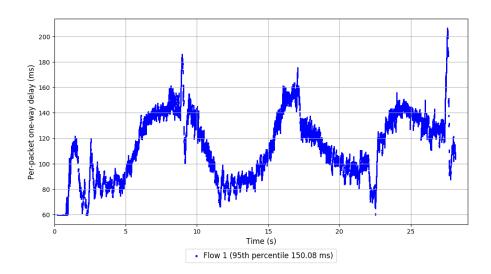
Average throughput: 578.02 Mbit/s

95th percentile per-packet one-way delay: 150.078 ms

Loss rate: 0.73%

Run 3: Report of Indigo-MusesT — Data Link





Run 4: Statistics of Indigo-MusesT

Start at: 2019-10-03 19:07:52 End at: 2019-10-03 19:08:22 Local clock offset: 0.424 ms Remote clock offset: -0.151 ms

Below is generated by plot.py at 2019-10-03 21:43:24

Datalink statistics
-- Total of 1 flow:

Average throughput: 486.00 Mbit/s

95th percentile per-packet one-way delay: 133.518 ms

Loss rate: 0.22%

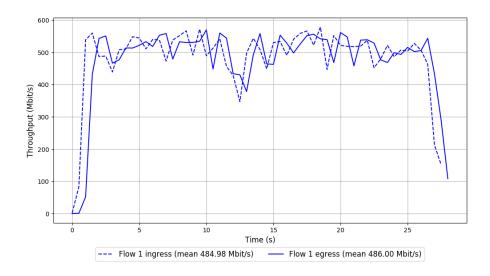
-- Flow 1:

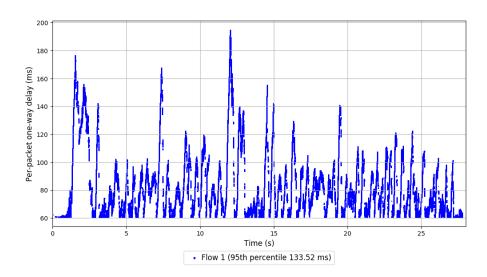
Average throughput: 486.00 Mbit/s

95th percentile per-packet one-way delay: 133.518 ms

Loss rate: 0.22%

Run 4: Report of Indigo-MusesT — Data Link





Run 5: Statistics of Indigo-MusesT

Start at: 2019-10-03 19:41:54 End at: 2019-10-03 19:42:24 Local clock offset: -0.26 ms Remote clock offset: -0.122 ms

Below is generated by plot.py at 2019-10-03 21:45:08

Datalink statistics
-- Total of 1 flow:

Average throughput: 539.23 Mbit/s

95th percentile per-packet one-way delay: 148.930 ms

Loss rate: 0.77%

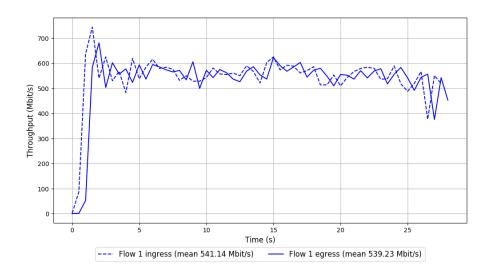
-- Flow 1:

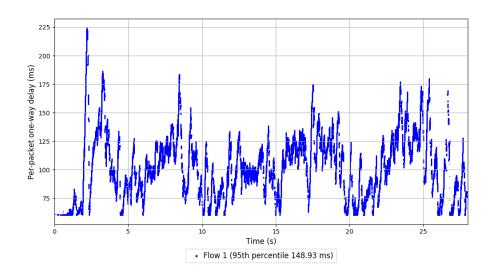
Average throughput: 539.23 Mbit/s

95th percentile per-packet one-way delay: 148.930 ms

Loss rate: 0.77%

Run 5: Report of Indigo-MusesT — Data Link





Run 1: Statistics of LEDBAT

Start at: 2019-10-03 17:30:26 End at: 2019-10-03 17:30:56 Local clock offset: 0.182 ms Remote clock offset: 0.564 ms

Below is generated by plot.py at 2019-10-03 21:45:08

Datalink statistics
-- Total of 1 flow:

Average throughput: 28.27 Mbit/s

95th percentile per-packet one-way delay: 57.750 ms

Loss rate: 0.76%

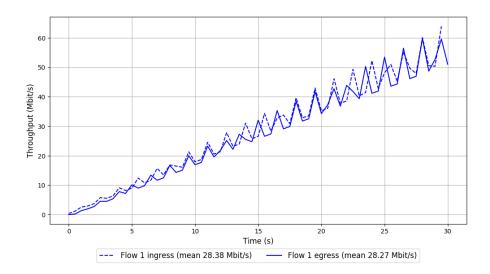
-- Flow 1:

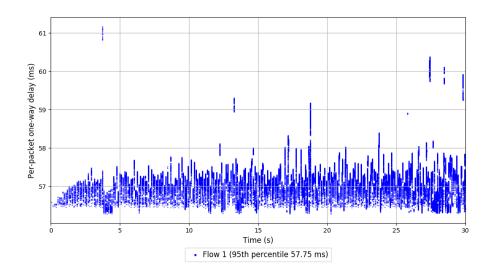
Average throughput: 28.27 Mbit/s

95th percentile per-packet one-way delay: 57.750 ms

Loss rate: 0.76%

Run 1: Report of LEDBAT — Data Link





Run 2: Statistics of LEDBAT

Start at: 2019-10-03 18:04:47 End at: 2019-10-03 18:05:17 Local clock offset: 0.344 ms Remote clock offset: -0.517 ms

Below is generated by plot.py at 2019-10-03 21:45:08

Datalink statistics
-- Total of 1 flow:

Average throughput: 26.71 Mbit/s

95th percentile per-packet one-way delay: 62.761 ms

Loss rate: 0.78%

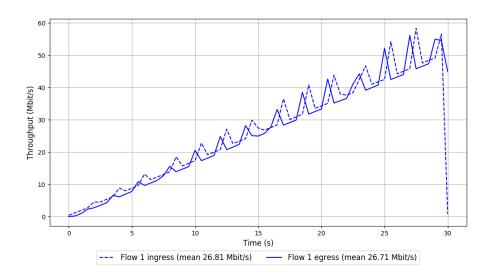
-- Flow 1:

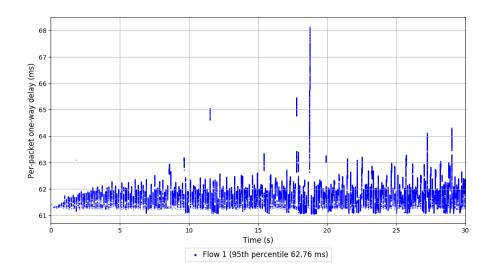
Average throughput: 26.71 Mbit/s

95th percentile per-packet one-way delay: 62.761 ms

Loss rate: 0.78%

Run 2: Report of LEDBAT — Data Link





Run 3: Statistics of LEDBAT

Start at: 2019-10-03 18:39:18 End at: 2019-10-03 18:39:48 Local clock offset: -0.212 ms Remote clock offset: 0.066 ms

Below is generated by plot.py at 2019-10-03 21:45:08

Datalink statistics
-- Total of 1 flow:

Average throughput: 26.65 Mbit/s

95th percentile per-packet one-way delay: 61.846 ms

Loss rate: 0.72%

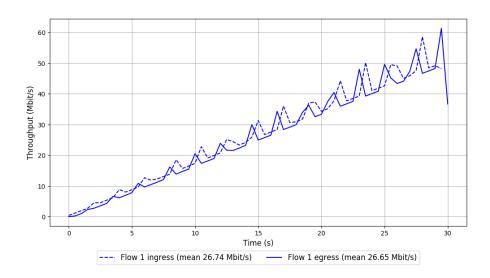
-- Flow 1:

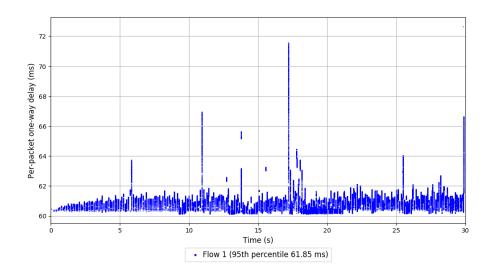
Average throughput: 26.65 Mbit/s

95th percentile per-packet one-way delay: 61.846 ms

Loss rate: 0.72%

Run 3: Report of LEDBAT — Data Link





Run 4: Statistics of LEDBAT

Start at: 2019-10-03 19:13:40 End at: 2019-10-03 19:14:10 Local clock offset: 0.01 ms Remote clock offset: -0.101 ms

Below is generated by plot.py at 2019-10-03 21:45:08

Datalink statistics
-- Total of 1 flow:

Average throughput: 28.32 Mbit/s

95th percentile per-packet one-way delay: 59.074 ms

Loss rate: 0.76%

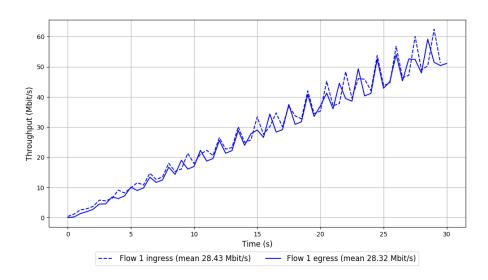
-- Flow 1:

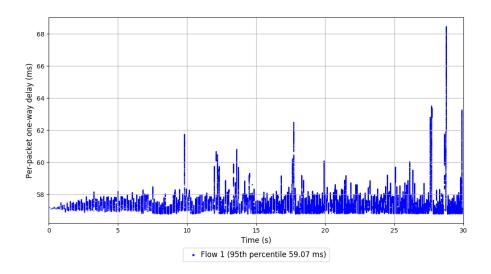
Average throughput: 28.32 Mbit/s

95th percentile per-packet one-way delay: $59.074~\mathrm{ms}$

Loss rate: 0.76%

Run 4: Report of LEDBAT — Data Link





Run 5: Statistics of LEDBAT

Start at: 2019-10-03 19:47:51 End at: 2019-10-03 19:48:21 Local clock offset: 0.137 ms Remote clock offset: -0.138 ms

Below is generated by plot.py at 2019-10-03 21:45:08

Datalink statistics
-- Total of 1 flow:

Average throughput: 10.84 Mbit/s

95th percentile per-packet one-way delay: 62.088 ms

Loss rate: 0.56%

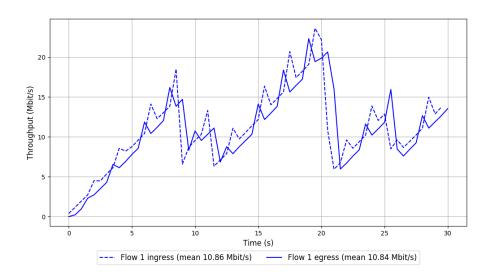
-- Flow 1:

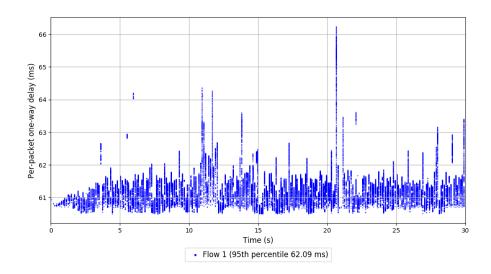
Average throughput: 10.84 Mbit/s

95th percentile per-packet one-way delay: 62.088 ms

Loss rate: 0.56%

Run 5: Report of LEDBAT — Data Link





Run 1: Statistics of Muses_DecisionTree

Start at: 2019-10-03 17:51:55 End at: 2019-10-03 17:52:25 Local clock offset: -0.375 ms Remote clock offset: -0.102 ms

Below is generated by plot.py at 2019-10-03 21:49:30

Datalink statistics
-- Total of 1 flow:

Average throughput: 537.48 Mbit/s

95th percentile per-packet one-way delay: 77.592 ms

Loss rate: 0.40%

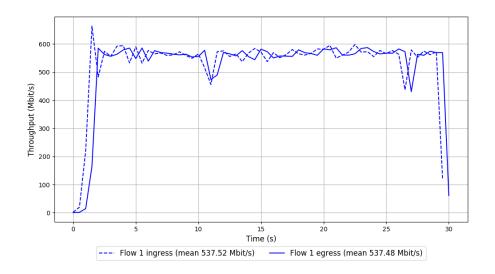
-- Flow 1:

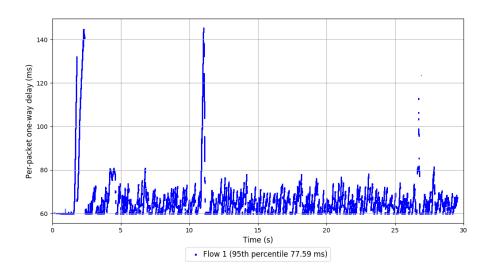
Average throughput: 537.48 Mbit/s

95th percentile per-packet one-way delay: 77.592 ms

Loss rate: 0.40%

Run 1: Report of Muses_DecisionTree — Data Link





Run 2: Statistics of Muses_DecisionTree

Start at: 2019-10-03 18:26:21 End at: 2019-10-03 18:26:51 Local clock offset: -0.234 ms Remote clock offset: 0.064 ms

Below is generated by plot.py at 2019-10-03 21:49:51

Datalink statistics
-- Total of 1 flow:

Average throughput: 526.45 Mbit/s

95th percentile per-packet one-way delay: 73.911 ms

Loss rate: 0.42%

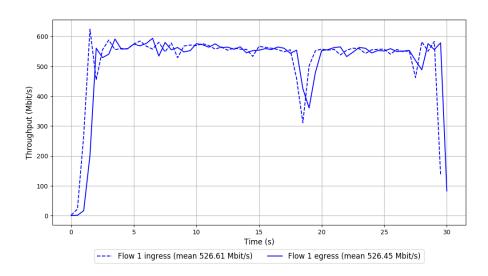
-- Flow 1:

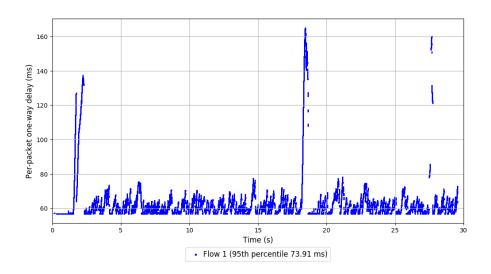
Average throughput: 526.45 Mbit/s

95th percentile per-packet one-way delay: 73.911 ms

Loss rate: 0.42%

Run 2: Report of Muses_DecisionTree — Data Link





Run 3: Statistics of Muses_DecisionTree

Start at: 2019-10-03 19:00:50 End at: 2019-10-03 19:01:20 Local clock offset: 0.088 ms Remote clock offset: 0.064 ms

Below is generated by plot.py at 2019-10-03 21:49:51

Datalink statistics
-- Total of 1 flow:

Average throughput: 449.16 Mbit/s

95th percentile per-packet one-way delay: 134.163 ms

Loss rate: 0.39%

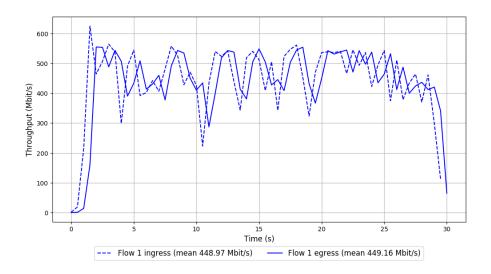
-- Flow 1:

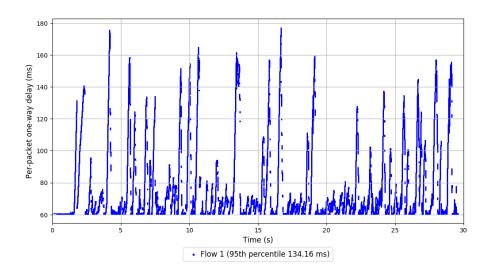
Average throughput: 449.16 Mbit/s

95th percentile per-packet one-way delay: 134.163 ms

Loss rate: 0.39%

Run 3: Report of Muses_DecisionTree — Data Link





Run 4: Statistics of Muses_DecisionTree

Start at: 2019-10-03 19:34:47 End at: 2019-10-03 19:35:17 Local clock offset: 0.396 ms Remote clock offset: 0.191 ms

Below is generated by plot.py at 2019-10-03 21:51:48

Datalink statistics
-- Total of 1 flow:

Average throughput: 481.42 Mbit/s

95th percentile per-packet one-way delay: 98.369 ms

Loss rate: 0.33%

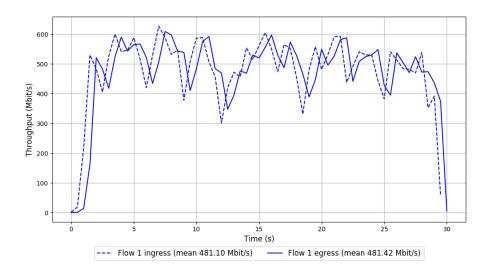
-- Flow 1:

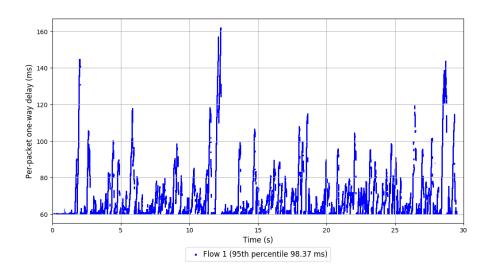
Average throughput: 481.42 Mbit/s

95th percentile per-packet one-way delay: 98.369 ms

Loss rate: 0.33%

Run 4: Report of Muses_DecisionTree — Data Link





Run 5: Statistics of Muses_DecisionTree

Start at: 2019-10-03 20:09:05 End at: 2019-10-03 20:09:35 Local clock offset: -0.008 ms Remote clock offset: -0.127 ms

Below is generated by plot.py at 2019-10-03 21:53:29

Datalink statistics
-- Total of 1 flow:

Average throughput: 507.38 Mbit/s

95th percentile per-packet one-way delay: 90.188 ms

Loss rate: 0.36%

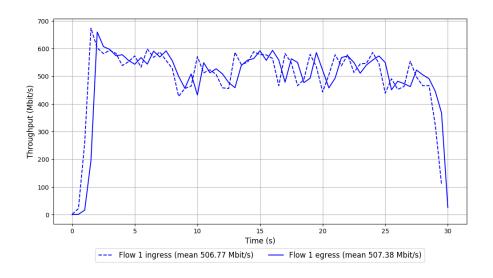
-- Flow 1:

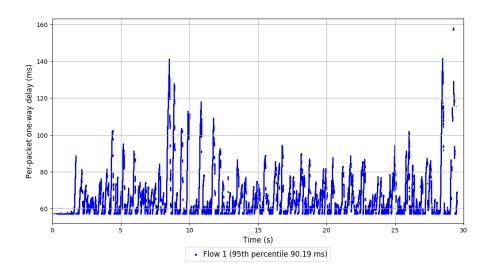
Average throughput: 507.38 Mbit/s

95th percentile per-packet one-way delay: 90.188 ms

Loss rate: 0.36%

Run 5: Report of Muses_DecisionTree — Data Link





Run 1: Statistics of Muses_DecisionTreeHO

Start at: 2019-10-03 17:22:11 End at: 2019-10-03 17:22:41 Local clock offset: -0.298 ms Remote clock offset: -0.119 ms

Below is generated by plot.py at 2019-10-03 21:53:29

Datalink statistics
-- Total of 1 flow:

Average throughput: 257.73 Mbit/s

95th percentile per-packet one-way delay: 162.575 ms

Loss rate: 7.98%

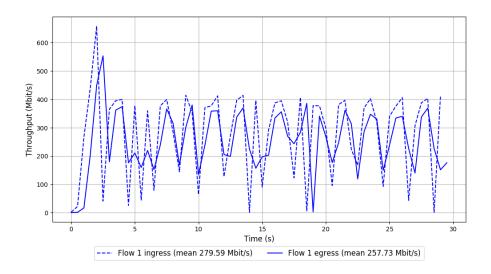
-- Flow 1:

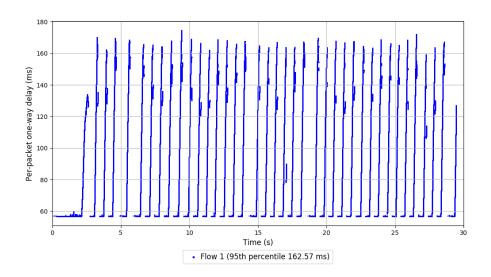
Average throughput: 257.73 Mbit/s

95th percentile per-packet one-way delay: 162.575 ms

Loss rate: 7.98%

Run 1: Report of Muses_DecisionTreeH0 — Data Link





Run 2: Statistics of Muses_DecisionTreeHO

Start at: 2019-10-03 17:56:32 End at: 2019-10-03 17:57:02 Local clock offset: -0.442 ms Remote clock offset: -0.098 ms

Below is generated by plot.py at 2019-10-03 21:53:29

Datalink statistics
-- Total of 1 flow:

Average throughput: 232.85 Mbit/s

95th percentile per-packet one-way delay: 171.241 ms

Loss rate: 11.24%

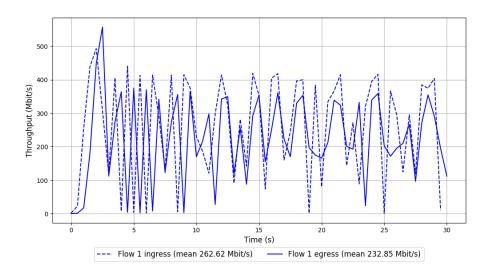
-- Flow 1:

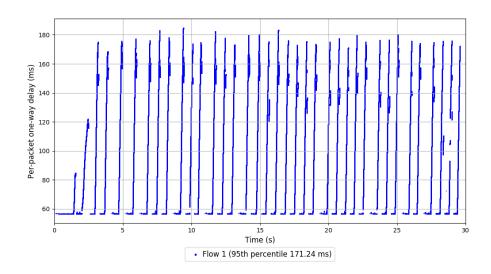
Average throughput: 232.85 Mbit/s

95th percentile per-packet one-way delay: 171.241 ms

Loss rate: 11.24%

Run 2: Report of Muses_DecisionTreeH0 — Data Link





Run 3: Statistics of Muses_DecisionTreeHO

Start at: 2019-10-03 18:30:56 End at: 2019-10-03 18:31:26 Local clock offset: -0.477 ms Remote clock offset: 0.162 ms

Below is generated by plot.py at 2019-10-03 21:53:29

Datalink statistics
-- Total of 1 flow:

Average throughput: 250.59 Mbit/s

95th percentile per-packet one-way delay: 166.235 ms

Loss rate: 9.18%

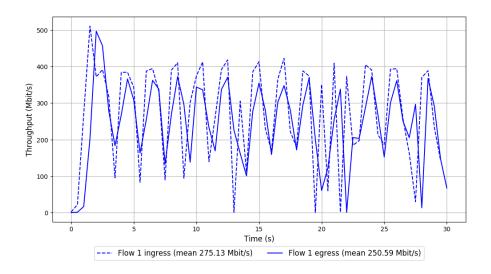
-- Flow 1:

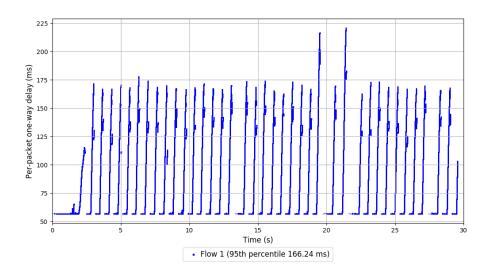
Average throughput: 250.59 Mbit/s

95th percentile per-packet one-way delay: 166.235 ms

Loss rate: 9.18%

Run 3: Report of Muses_DecisionTreeH0 — Data Link





Run 4: Statistics of Muses_DecisionTreeHO

Start at: 2019-10-03 19:05:20 End at: 2019-10-03 19:05:50 Local clock offset: 0.401 ms Remote clock offset: 0.592 ms

Below is generated by plot.py at 2019-10-03 21:53:51

Datalink statistics
-- Total of 1 flow:

Average throughput: 276.32 Mbit/s

95th percentile per-packet one-way delay: 173.975 ms

Loss rate: 5.75%

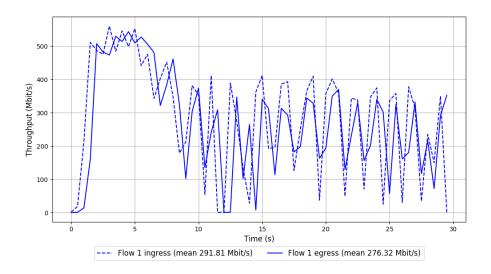
-- Flow 1:

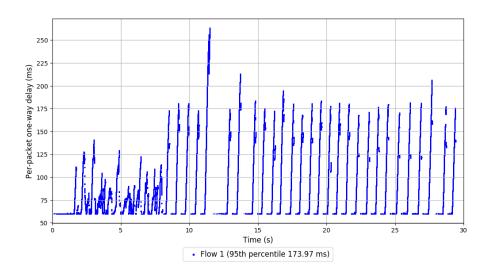
Average throughput: 276.32 Mbit/s

95th percentile per-packet one-way delay: 173.975 ms

Loss rate: 5.75%

Run 4: Report of Muses_DecisionTreeH0 — Data Link





Run 5: Statistics of Muses_DecisionTreeHO

Start at: 2019-10-03 19:39:19 End at: 2019-10-03 19:39:49 Local clock offset: 0.162 ms Remote clock offset: -0.135 ms

Below is generated by plot.py at 2019-10-03 21:56:07

Datalink statistics
-- Total of 1 flow:

Average throughput: 339.44 Mbit/s

95th percentile per-packet one-way delay: 167.601 ms

Loss rate: 3.37%

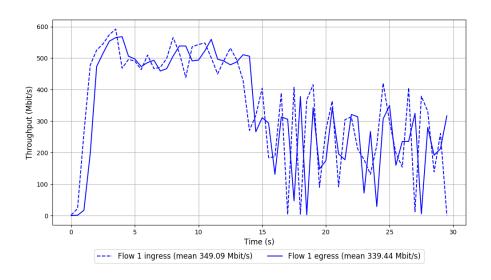
-- Flow 1:

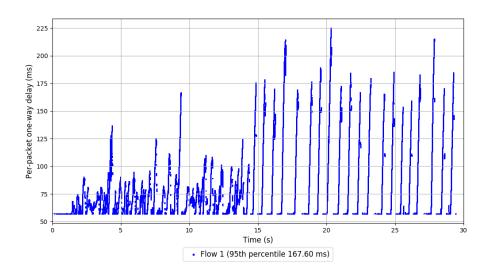
Average throughput: 339.44 Mbit/s

95th percentile per-packet one-way delay: 167.601 ms

Loss rate: 3.37%

Run 5: Report of Muses_DecisionTreeH0 — Data Link





Run 1: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-03 17:38:59 End at: 2019-10-03 17:39:29 Local clock offset: 0.226 ms Remote clock offset: -0.066 ms

Below is generated by plot.py at 2019-10-03 22:01:29

Datalink statistics
-- Total of 1 flow:

Average throughput: 548.06 Mbit/s

95th percentile per-packet one-way delay: 72.067 ms

Loss rate: 0.40%

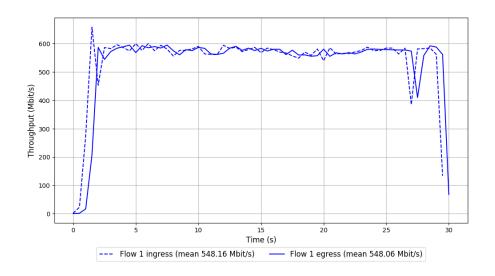
-- Flow 1:

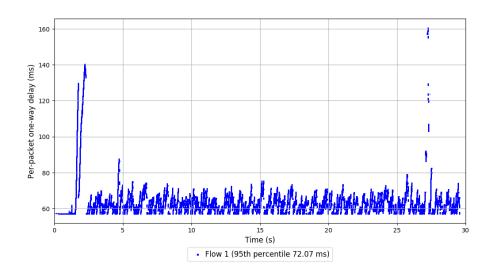
Average throughput: 548.06 Mbit/s

95th percentile per-packet one-way delay: 72.067 ms

Loss rate: 0.40%

Run 1: Report of Muses_DecisionTreeR0 — Data Link





Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-03 18:13:19 End at: 2019-10-03 18:13:49 Local clock offset: -0.467 ms Remote clock offset: 0.212 ms

Below is generated by plot.py at 2019-10-03 22:01:29

Datalink statistics
-- Total of 1 flow:

Average throughput: 542.16 Mbit/s

95th percentile per-packet one-way delay: 72.833 ms

Loss rate: 0.44%

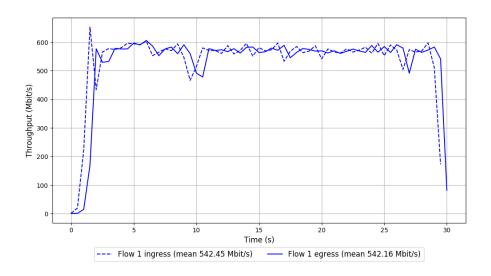
-- Flow 1:

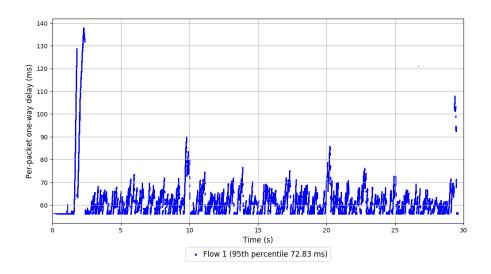
Average throughput: 542.16 Mbit/s

95th percentile per-packet one-way delay: 72.833 ms

Loss rate: 0.44%

Run 2: Report of Muses_DecisionTreeR0 — Data Link





Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-03 18:47:46 End at: 2019-10-03 18:48:16 Local clock offset: 0.168 ms Remote clock offset: -0.676 ms

Below is generated by plot.py at 2019-10-03 22:01:44

Datalink statistics
-- Total of 1 flow:

Average throughput: 547.43 Mbit/s

95th percentile per-packet one-way delay: 72.590 ms

Loss rate: 0.42%

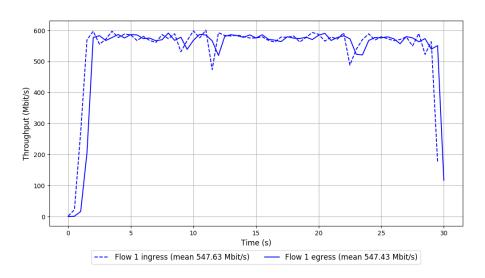
-- Flow 1:

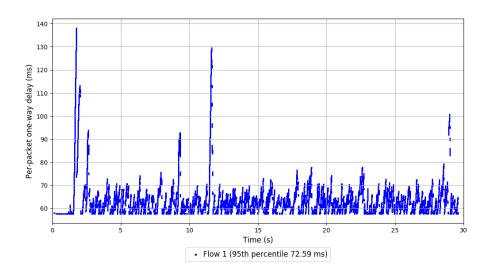
Average throughput: 547.43 Mbit/s

95th percentile per-packet one-way delay: 72.590 ms

Loss rate: 0.42%

Run 3: Report of Muses_DecisionTreeR0 — Data Link





Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-03 19:22:02 End at: 2019-10-03 19:22:32 Local clock offset: -0.055 ms Remote clock offset: -0.231 ms

Below is generated by plot.py at 2019-10-03 22:01:44

Datalink statistics
-- Total of 1 flow:

Average throughput: 469.66 Mbit/s

95th percentile per-packet one-way delay: 98.685 ms

Loss rate: 0.48%

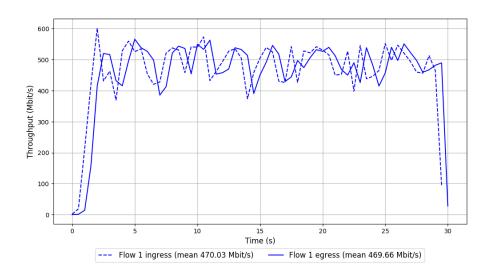
-- Flow 1:

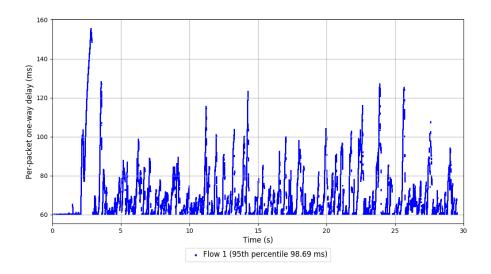
Average throughput: 469.66 Mbit/s

95th percentile per-packet one-way delay: 98.685 ms

Loss rate: 0.48%

Run 4: Report of Muses_DecisionTreeR0 — Data Link





Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-03 19:56:16 End at: 2019-10-03 19:56:46 Local clock offset: 0.006 ms Remote clock offset: -0.116 ms

Below is generated by plot.py at 2019-10-03 22:02:11

Datalink statistics
-- Total of 1 flow:

Average throughput: 489.58 Mbit/s

95th percentile per-packet one-way delay: 90.015 ms

Loss rate: 0.48%

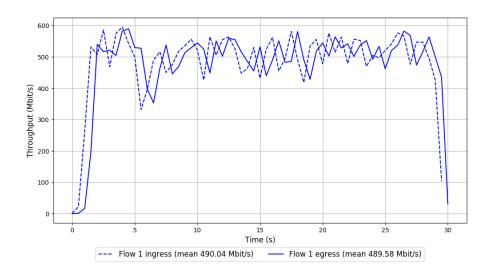
-- Flow 1:

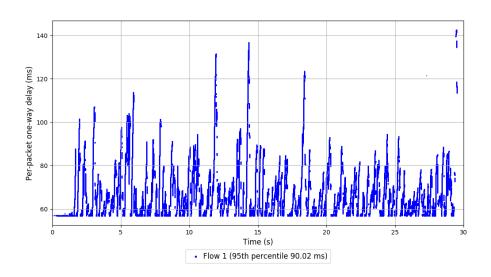
Average throughput: 489.58 Mbit/s

95th percentile per-packet one-way delay: 90.015 ms

Loss rate: 0.48%

Run 5: Report of Muses_DecisionTreeR0 — Data Link





Run 1: Statistics of PCC-Allegro

Start at: 2019-10-03 17:27:47 End at: 2019-10-03 17:28:17 Local clock offset: 0.32 ms Remote clock offset: 0.424 ms

Below is generated by plot.py at 2019-10-03 22:07:46

Datalink statistics
-- Total of 1 flow:

Average throughput: 341.29 Mbit/s

95th percentile per-packet one-way delay: 196.796 ms

Loss rate: 2.43%

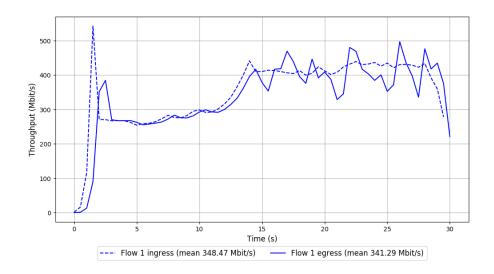
-- Flow 1:

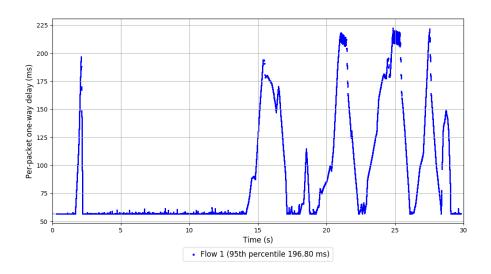
Average throughput: 341.29 Mbit/s

95th percentile per-packet one-way delay: 196.796 ms

Loss rate: 2.43%

Run 1: Report of PCC-Allegro — Data Link





Run 2: Statistics of PCC-Allegro

Start at: 2019-10-03 18:02:09 End at: 2019-10-03 18:02:39 Local clock offset: 0.136 ms Remote clock offset: -0.127 ms

Below is generated by plot.py at 2019-10-03 22:07:46

Datalink statistics
-- Total of 1 flow:

Average throughput: 327.35 Mbit/s

95th percentile per-packet one-way delay: 124.558 ms

Loss rate: 0.85%

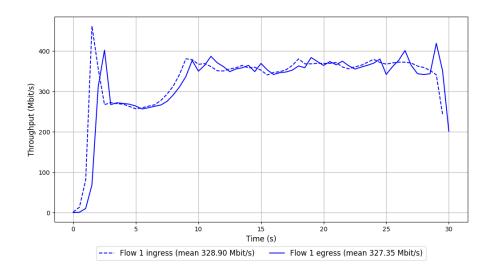
-- Flow 1:

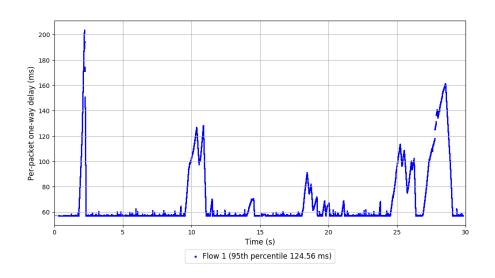
Average throughput: 327.35 Mbit/s

95th percentile per-packet one-way delay: 124.558 ms

Loss rate: 0.85%

Run 2: Report of PCC-Allegro — Data Link





Run 3: Statistics of PCC-Allegro

Start at: 2019-10-03 18:36:42 End at: 2019-10-03 18:37:12 Local clock offset: -0.045 ms Remote clock offset: 0.143 ms

Below is generated by plot.py at 2019-10-03 22:09:56

Datalink statistics
-- Total of 1 flow:

Average throughput: 307.93 Mbit/s

95th percentile per-packet one-way delay: 133.852 ms

Loss rate: 1.08%

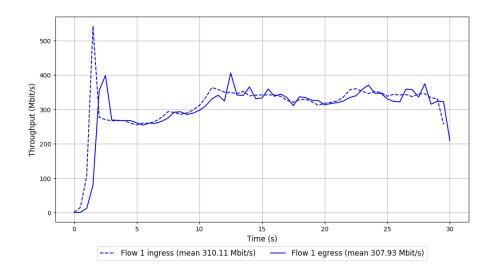
-- Flow 1:

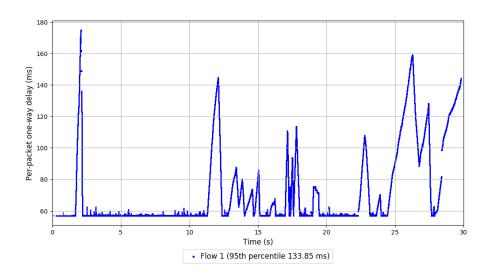
Average throughput: 307.93 Mbit/s

95th percentile per-packet one-way delay: 133.852 ms

Loss rate: 1.08%

Run 3: Report of PCC-Allegro — Data Link





Run 4: Statistics of PCC-Allegro

Start at: 2019-10-03 19:11:02 End at: 2019-10-03 19:11:32 Local clock offset: -0.248 ms Remote clock offset: 0.017 ms

Below is generated by plot.py at 2019-10-03 22:15:56

Datalink statistics
-- Total of 1 flow:

Average throughput: 324.71 Mbit/s

95th percentile per-packet one-way delay: 220.604 ms

Loss rate: 4.69%

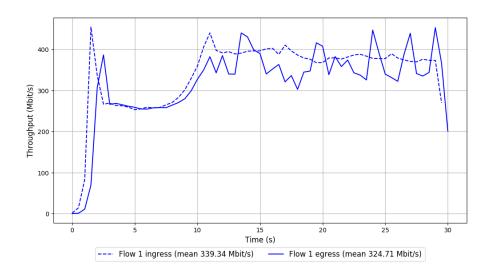
-- Flow 1:

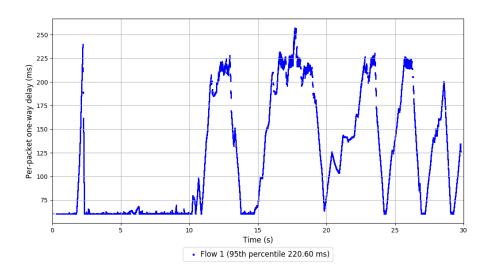
Average throughput: 324.71 Mbit/s

95th percentile per-packet one-way delay: 220.604 ms

Loss rate: 4.69%

Run 4: Report of PCC-Allegro — Data Link





Run 5: Statistics of PCC-Allegro

Start at: 2019-10-03 19:45:05 End at: 2019-10-03 19:45:35 Local clock offset: -0.416 ms Remote clock offset: -0.138 ms

Below is generated by plot.py at 2019-10-03 22:21:01

Datalink statistics
-- Total of 1 flow:

Average throughput: 424.69 Mbit/s

95th percentile per-packet one-way delay: 212.773 ms

Loss rate: 8.31%

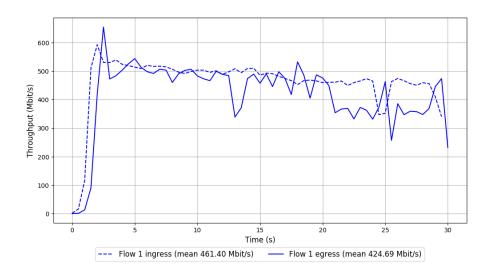
-- Flow 1:

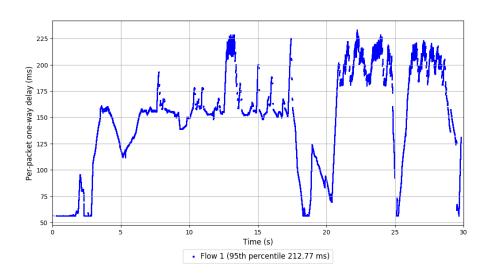
Average throughput: 424.69 Mbit/s

95th percentile per-packet one-way delay: 212.773 ms

Loss rate: 8.31%

Run 5: Report of PCC-Allegro — Data Link





Run 1: Statistics of PCC-Expr

Start at: 2019-10-03 17:50:24 End at: 2019-10-03 17:50:54 Local clock offset: -0.046 ms Remote clock offset: -0.276 ms

Below is generated by plot.py at 2019-10-03 22:21:01

Datalink statistics
-- Total of 1 flow:

Average throughput: 252.43 Mbit/s

95th percentile per-packet one-way delay: 180.802 ms

Loss rate: 1.02%

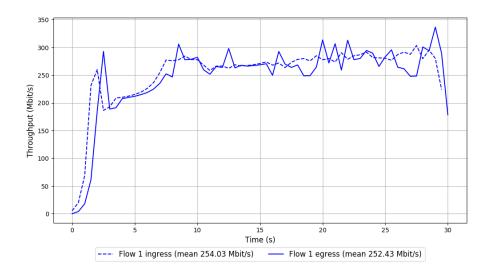
-- Flow 1:

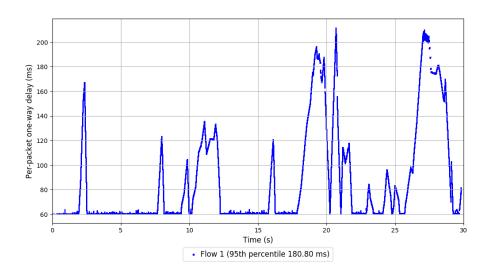
Average throughput: 252.43 Mbit/s

95th percentile per-packet one-way delay: 180.802 ms

Loss rate: 1.02%

Run 1: Report of PCC-Expr — Data Link





Run 2: Statistics of PCC-Expr

Start at: 2019-10-03 18:24:53 End at: 2019-10-03 18:25:23 Local clock offset: 0.116 ms Remote clock offset: 0.048 ms

Below is generated by plot.py at 2019-10-03 22:21:01

Datalink statistics
-- Total of 1 flow:

Average throughput: 227.84 Mbit/s

95th percentile per-packet one-way delay: 199.502 ms

Loss rate: 2.16%

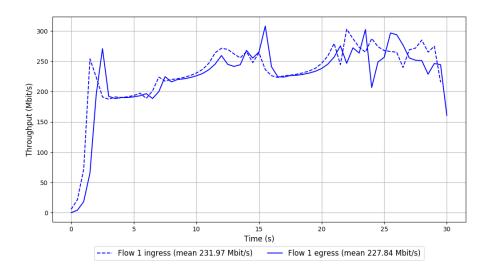
-- Flow 1:

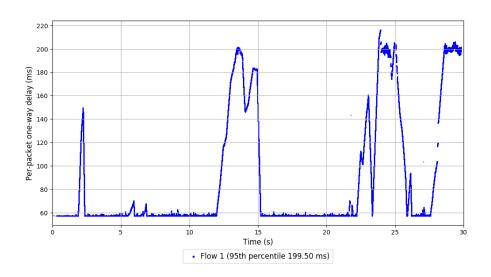
Average throughput: 227.84 Mbit/s

95th percentile per-packet one-way delay: 199.502 ms

Loss rate: 2.16%

Run 2: Report of PCC-Expr — Data Link





Run 3: Statistics of PCC-Expr

Start at: 2019-10-03 18:59:23 End at: 2019-10-03 18:59:53 Local clock offset: 0.198 ms Remote clock offset: -0.155 ms

Below is generated by plot.py at 2019-10-03 22:21:01

Datalink statistics
-- Total of 1 flow:

Average throughput: 217.33 Mbit/s

95th percentile per-packet one-way delay: 209.918 ms

Loss rate: 4.00%

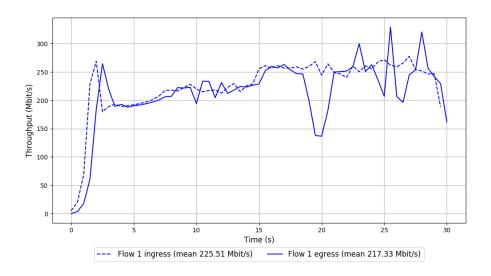
-- Flow 1:

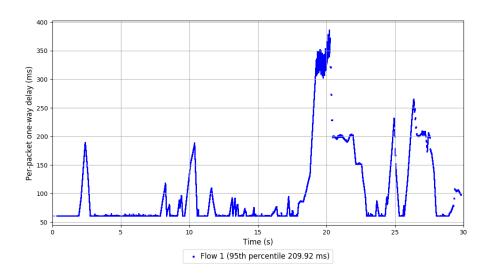
Average throughput: 217.33 Mbit/s

95th percentile per-packet one-way delay: 209.918 ms

Loss rate: 4.00%

Run 3: Report of PCC-Expr — Data Link





Run 4: Statistics of PCC-Expr

Start at: 2019-10-03 19:33:15 End at: 2019-10-03 19:33:45 Local clock offset: 0.136 ms Remote clock offset: -0.352 ms

Below is generated by plot.py at 2019-10-03 22:21:01

Datalink statistics
-- Total of 1 flow:

Average throughput: 270.62 Mbit/s

95th percentile per-packet one-way delay: 202.882 ms

Loss rate: 6.38%

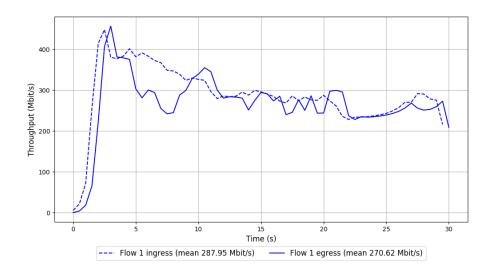
-- Flow 1:

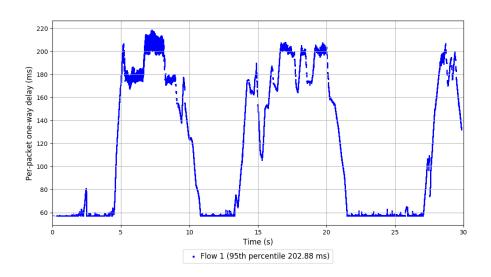
Average throughput: 270.62 Mbit/s

95th percentile per-packet one-way delay: 202.882 ms

Loss rate: 6.38%

Run 4: Report of PCC-Expr — Data Link





Run 5: Statistics of PCC-Expr

Start at: 2019-10-03 20:07:34 End at: 2019-10-03 20:08:04 Local clock offset: 0.389 ms Remote clock offset: -0.163 ms

Below is generated by plot.py at 2019-10-03 22:21:01

Datalink statistics
-- Total of 1 flow:

Average throughput: 241.79 Mbit/s

95th percentile per-packet one-way delay: 206.433 ms

Loss rate: 9.88%

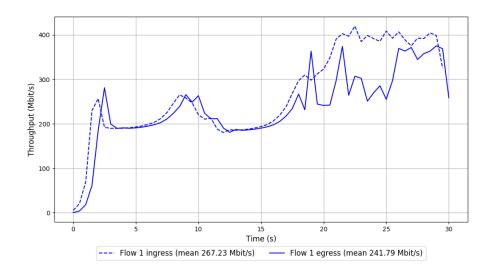
-- Flow 1:

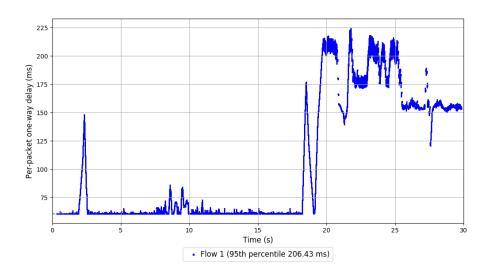
Average throughput: 241.79 Mbit/s

95th percentile per-packet one-way delay: 206.433 ms

Loss rate: 9.88%

Run 5: Report of PCC-Expr — Data Link





Run 1: Statistics of QUIC Cubic

Start at: 2019-10-03 17:23:32 End at: 2019-10-03 17:24:02 Local clock offset: -0.052 ms Remote clock offset: -0.146 ms

Below is generated by plot.py at 2019-10-03 22:21:01

Datalink statistics
-- Total of 1 flow:

Average throughput: 48.53 Mbit/s

95th percentile per-packet one-way delay: 60.300 ms

Loss rate: 0.74%

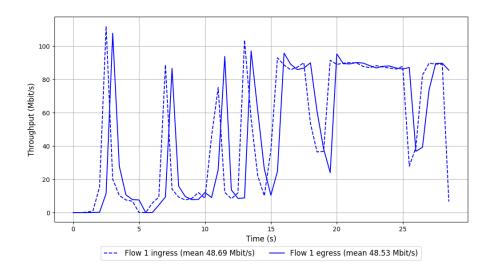
-- Flow 1:

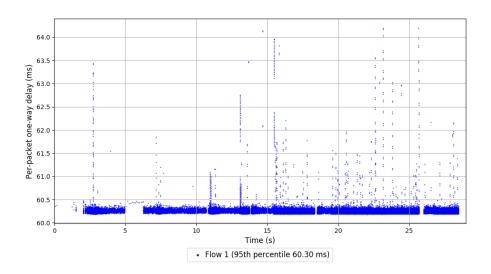
Average throughput: 48.53 Mbit/s

95th percentile per-packet one-way delay: 60.300 ms

Loss rate: 0.74%

Run 1: Report of QUIC Cubic — Data Link





Run 2: Statistics of QUIC Cubic

Start at: 2019-10-03 17:57:52 End at: 2019-10-03 17:58:22 Local clock offset: -0.025 ms Remote clock offset: -0.054 ms

Below is generated by plot.py at 2019-10-03 22:21:01

Datalink statistics
-- Total of 1 flow:

Average throughput: 46.05 Mbit/s

95th percentile per-packet one-way delay: 57.155 ms

Loss rate: 0.74%

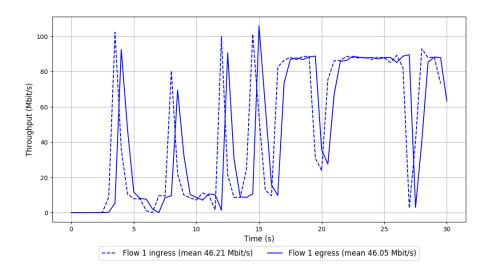
-- Flow 1:

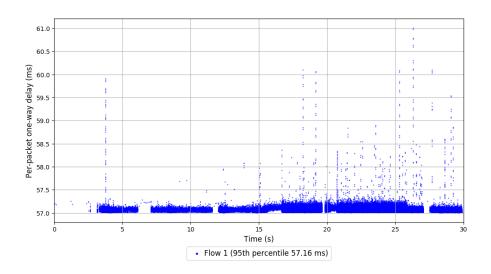
Average throughput: 46.05 Mbit/s

95th percentile per-packet one-way delay: 57.155 ms

Loss rate: 0.74%

Run 2: Report of QUIC Cubic — Data Link





Run 3: Statistics of QUIC Cubic

Start at: 2019-10-03 18:32:17 End at: 2019-10-03 18:32:47 Local clock offset: -0.319 ms Remote clock offset: -0.057 ms

Below is generated by plot.py at 2019-10-03 22:21:01

Datalink statistics
-- Total of 1 flow:

Average throughput: 70.80 Mbit/s

95th percentile per-packet one-way delay: 56.909 ms

Loss rate: 0.49%

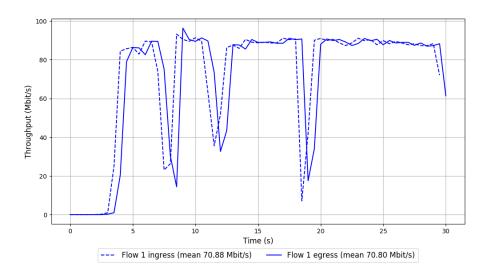
-- Flow 1:

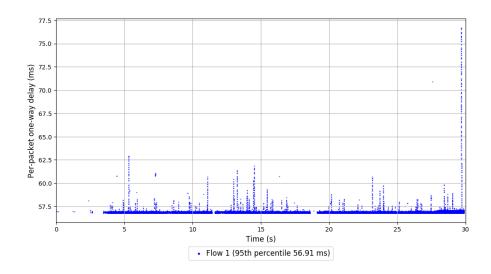
Average throughput: 70.80 Mbit/s

95th percentile per-packet one-way delay: 56.909 ms

Loss rate: 0.49%

Run 3: Report of QUIC Cubic — Data Link





Run 4: Statistics of QUIC Cubic

Start at: 2019-10-03 19:06:41 End at: 2019-10-03 19:07:12 Local clock offset: 0.008 ms Remote clock offset: 0.019 ms

Below is generated by plot.py at 2019-10-03 22:21:01

Datalink statistics
-- Total of 1 flow:

Average throughput: 44.47 Mbit/s

95th percentile per-packet one-way delay: 57.079 ms

Loss rate: 0.75%

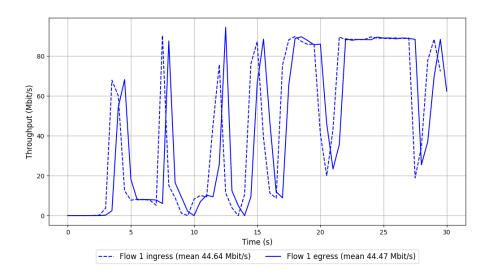
-- Flow 1:

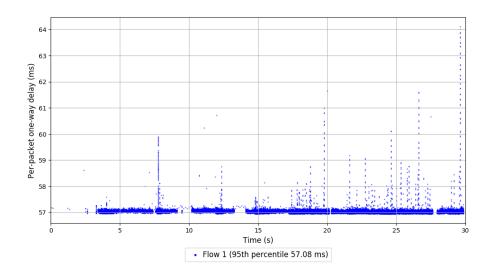
Average throughput: 44.47 Mbit/s

95th percentile per-packet one-way delay: 57.079 ms

Loss rate: 0.75%

Run 4: Report of QUIC Cubic — Data Link





Run 5: Statistics of QUIC Cubic

Start at: 2019-10-03 19:40:43 End at: 2019-10-03 19:41:13 Local clock offset: 0.048 ms Remote clock offset: -0.159 ms

Below is generated by plot.py at 2019-10-03 22:21:01

Datalink statistics
-- Total of 1 flow:

Average throughput: 44.24 Mbit/s

95th percentile per-packet one-way delay: 60.398 ms

Loss rate: 0.63%

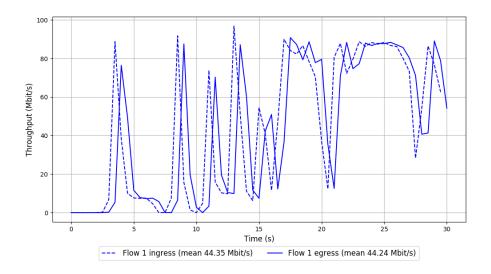
-- Flow 1:

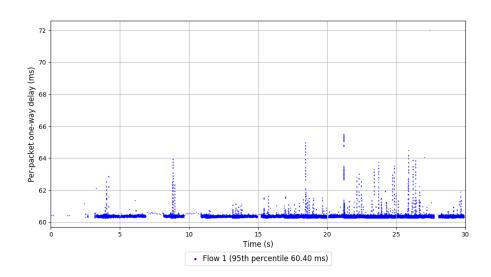
Average throughput: 44.24 Mbit/s

95th percentile per-packet one-way delay: 60.398 ms

Loss rate: 0.63%

Run 5: Report of QUIC Cubic — Data Link





Run 1: Statistics of SCReAM

Start at: 2019-10-03 17:37:51 End at: 2019-10-03 17:38:21 Local clock offset: 0.379 ms Remote clock offset: -0.0 ms

Below is generated by plot.py at 2019-10-03 22:21:01

Datalink statistics
-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 57.267 ms

Loss rate: 0.39%

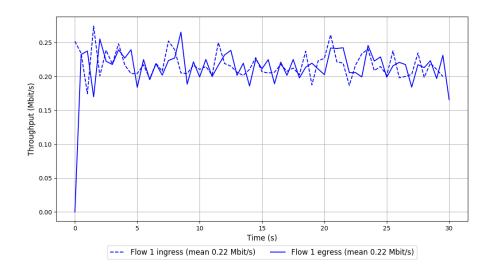
-- Flow 1:

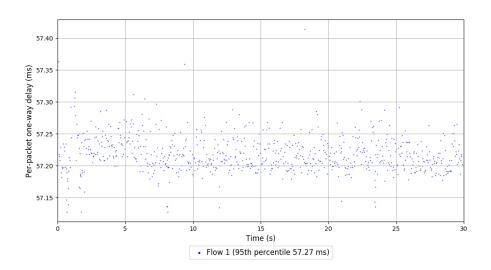
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 57.267 ms

Loss rate: 0.39%

Run 1: Report of SCReAM — Data Link





Run 2: Statistics of SCReAM

Start at: 2019-10-03 18:12:11 End at: 2019-10-03 18:12:41 Local clock offset: -0.02 ms Remote clock offset: 0.711 ms

Below is generated by plot.py at 2019-10-03 22:21:01

Datalink statistics
-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 56.379 ms

Loss rate: 0.38%

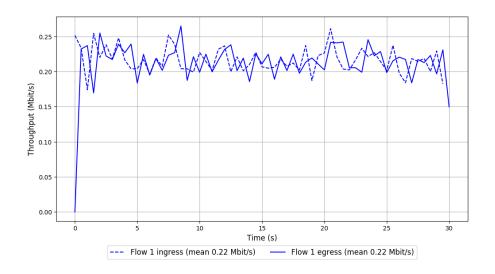
-- Flow 1:

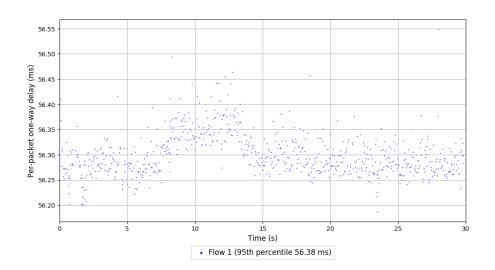
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 56.379 ms

Loss rate: 0.38%

Run 2: Report of SCReAM — Data Link





Run 3: Statistics of SCReAM

Start at: 2019-10-03 18:46:38 End at: 2019-10-03 18:47:08 Local clock offset: 0.155 ms Remote clock offset: 0.061 ms

Below is generated by plot.py at 2019-10-03 22:21:01

Datalink statistics
-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 57.122 ms

Loss rate: 0.38%

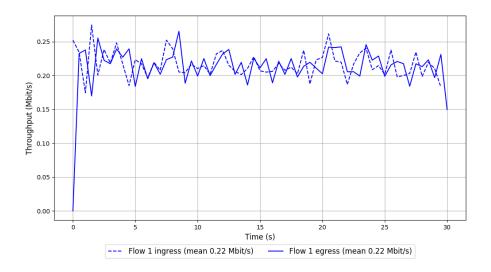
-- Flow 1:

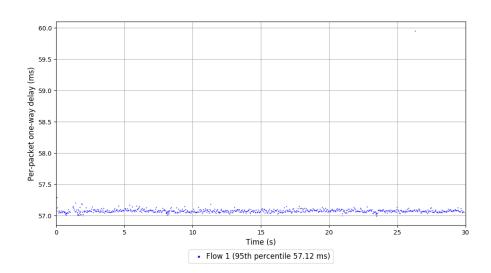
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 57.122 ms

Loss rate: 0.38%

Run 3: Report of SCReAM — Data Link





Run 4: Statistics of SCReAM

Start at: 2019-10-03 19:20:54 End at: 2019-10-03 19:21:24 Local clock offset: -0.042 ms Remote clock offset: -0.091 ms

Below is generated by plot.py at 2019-10-03 22:21:01

Datalink statistics
-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 56.984 ms

Loss rate: 0.38%

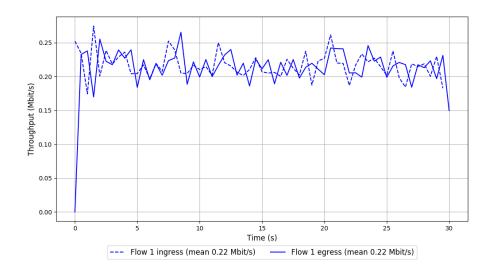
-- Flow 1:

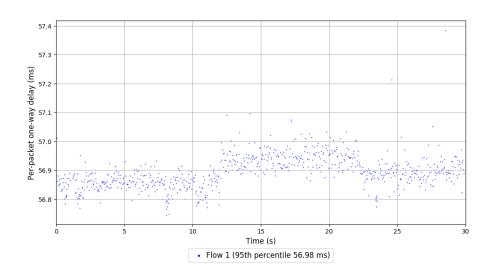
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 56.984 ms

Loss rate: 0.38%

Run 4: Report of SCReAM — Data Link





Run 5: Statistics of SCReAM

Start at: 2019-10-03 19:55:08 End at: 2019-10-03 19:55:38 Local clock offset: -0.038 ms Remote clock offset: -0.133 ms

Below is generated by plot.py at 2019-10-03 22:21:01

Datalink statistics
-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 57.039 ms

Loss rate: 0.38%

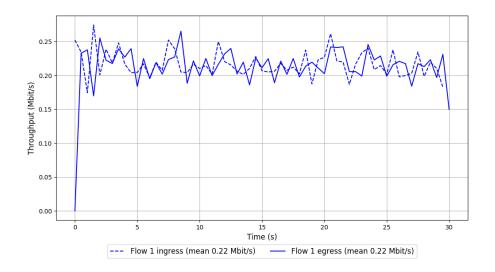
-- Flow 1:

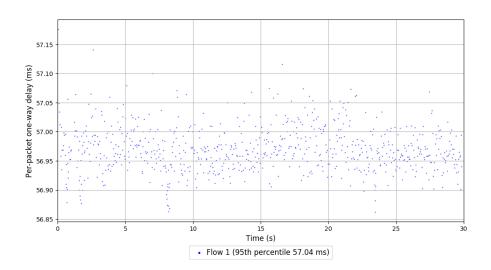
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 57.039 ms

Loss rate: 0.38%

Run 5: Report of SCReAM — Data Link





Run 1: Statistics of Sprout

Start at: 2019-10-03 17:29:17 End at: 2019-10-03 17:29:47 Local clock offset: 0.365 ms Remote clock offset: 0.039 ms

Below is generated by plot.py at 2019-10-03 22:21:01

Datalink statistics
-- Total of 1 flow:

Average throughput: 7.53 Mbit/s

95th percentile per-packet one-way delay: 61.114 ms

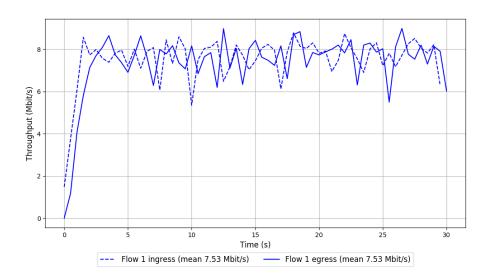
Loss rate: 0.46%

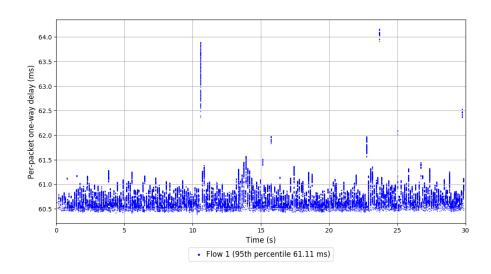
-- Flow 1:

Average throughput: 7.53 Mbit/s

95th percentile per-packet one-way delay: 61.114 ms

Run 1: Report of Sprout — Data Link





Run 2: Statistics of Sprout

Start at: 2019-10-03 18:03:38 End at: 2019-10-03 18:04:08 Local clock offset: 0.225 ms Remote clock offset: -0.11 ms

Below is generated by plot.py at 2019-10-03 22:21:01

Datalink statistics
-- Total of 1 flow:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 58.306 ms

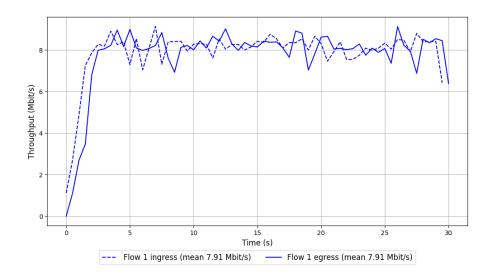
Loss rate: 0.43%

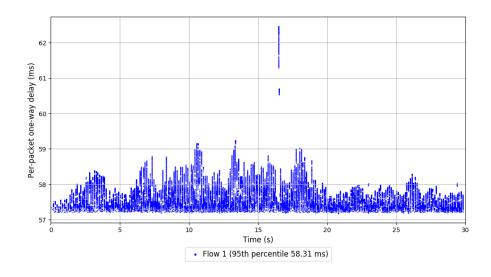
-- Flow 1:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 58.306 ms

Run 2: Report of Sprout — Data Link





Run 3: Statistics of Sprout

Start at: 2019-10-03 18:38:09 End at: 2019-10-03 18:38:39 Local clock offset: 0.212 ms Remote clock offset: -0.103 ms

Below is generated by plot.py at 2019-10-03 22:21:01

Datalink statistics
-- Total of 1 flow:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 58.208 ms

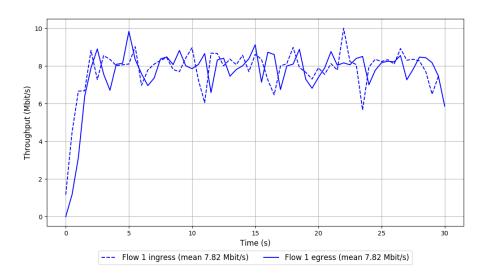
Loss rate: 0.43%

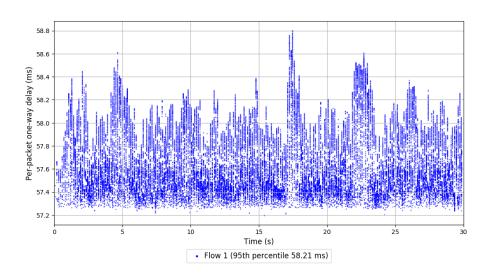
-- Flow 1:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 58.208 ms

Run 3: Report of Sprout — Data Link





Run 4: Statistics of Sprout

Start at: 2019-10-03 19:12:31 End at: 2019-10-03 19:13:01 Local clock offset: 0.195 ms Remote clock offset: -0.198 ms

Below is generated by plot.py at 2019-10-03 22:21:01

Datalink statistics
-- Total of 1 flow:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 61.964 ms

Loss rate: 0.00%

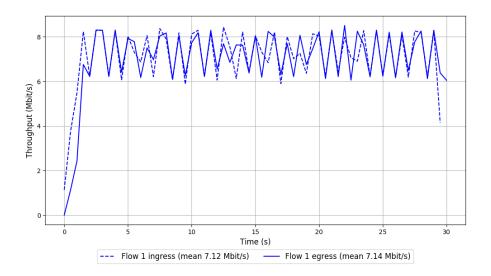
-- Flow 1:

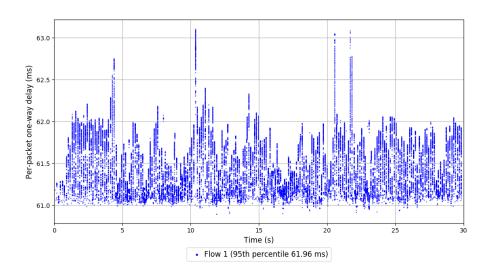
Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 61.964 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link





Run 5: Statistics of Sprout

Start at: 2019-10-03 19:46:42 End at: 2019-10-03 19:47:12 Local clock offset: 0.367 ms Remote clock offset: -0.288 ms

Below is generated by plot.py at 2019-10-03 22:21:01

Datalink statistics
-- Total of 1 flow:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 57.958 ms

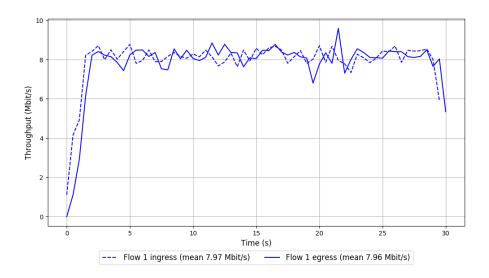
Loss rate: 0.42%

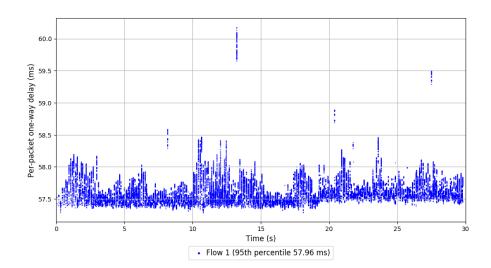
-- Flow 1:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 57.958 ms

Run 5: Report of Sprout — Data Link





Run 1: Statistics of TaoVA-100x

Start at: 2019-10-03 17:48:55 End at: 2019-10-03 17:49:25 Local clock offset: 0.152 ms Remote clock offset: -0.072 ms

Below is generated by plot.py at 2019-10-03 22:23:33

Datalink statistics
-- Total of 1 flow:

Average throughput: 231.25 Mbit/s

95th percentile per-packet one-way delay: 61.156 ms

Loss rate: 0.39%

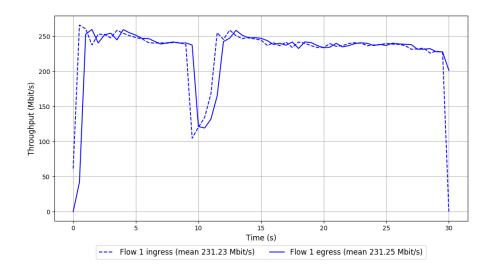
-- Flow 1:

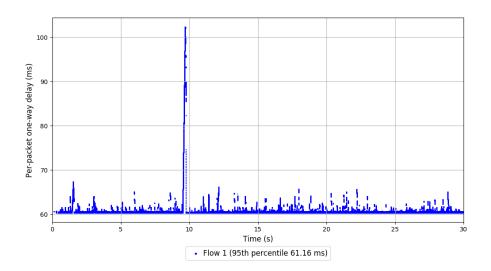
Average throughput: 231.25 Mbit/s

95th percentile per-packet one-way delay: 61.156 ms

Loss rate: 0.39%

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





Run 2: Statistics of TaoVA-100x

Start at: 2019-10-03 18:23:24 End at: 2019-10-03 18:23:54 Local clock offset: -0.284 ms Remote clock offset: 0.007 ms

Below is generated by plot.py at 2019-10-03 22:23:33

Datalink statistics
-- Total of 1 flow:

Average throughput: 229.68 Mbit/s

95th percentile per-packet one-way delay: 61.118 ms

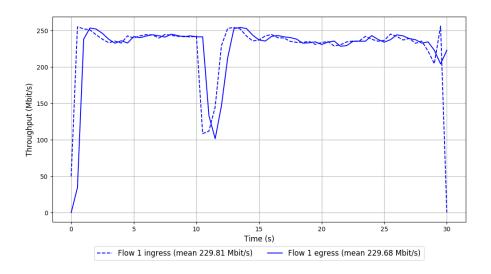
Loss rate: 0.45%

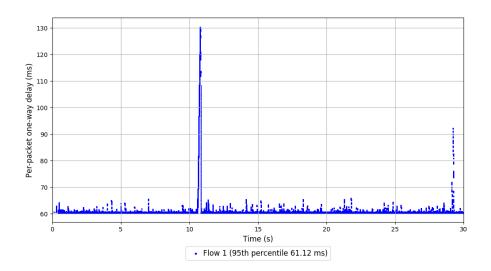
-- Flow 1:

Average throughput: 229.68 Mbit/s

95th percentile per-packet one-way delay: 61.118 ms

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





Run 3: Statistics of TaoVA-100x

Start at: 2019-10-03 18:57:57 End at: 2019-10-03 18:58:27 Local clock offset: -0.013 ms Remote clock offset: 0.023 ms

Below is generated by plot.py at 2019-10-03 22:23:33

Datalink statistics
-- Total of 1 flow:

Average throughput: 200.49 Mbit/s

95th percentile per-packet one-way delay: 71.195 ms

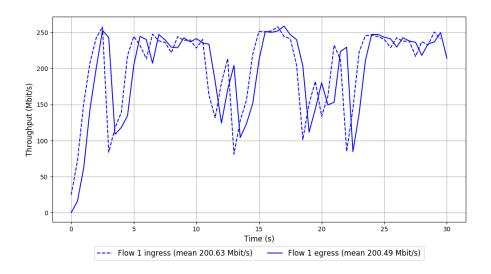
Loss rate: 0.45%

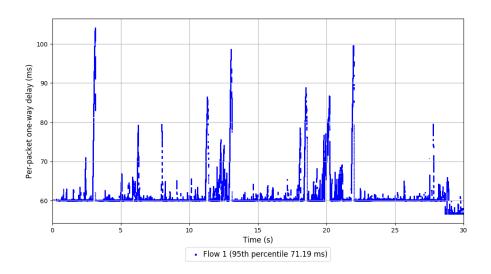
-- Flow 1:

Average throughput: 200.49 Mbit/s

95th percentile per-packet one-way delay: 71.195 ms

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





Run 4: Statistics of TaoVA-100x

Start at: 2019-10-03 19:31:50 End at: 2019-10-03 19:32:20 Local clock offset: -0.398 ms Remote clock offset: -0.23 ms

Below is generated by plot.py at 2019-10-03 22:23:33

Datalink statistics
-- Total of 1 flow:

Average throughput: 190.73 Mbit/s

95th percentile per-packet one-way delay: 78.408 ms

Loss rate: 0.50%

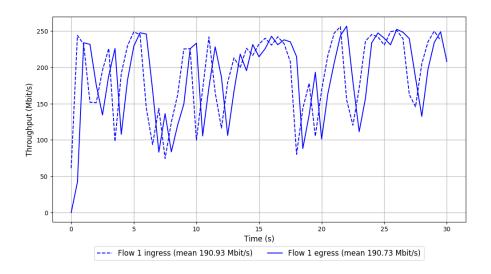
-- Flow 1:

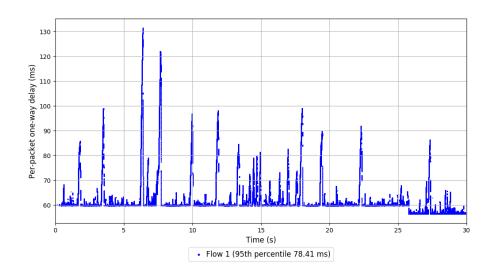
Average throughput: 190.73 Mbit/s

95th percentile per-packet one-way delay: 78.408 ms

Loss rate: 0.50%

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





Run 5: Statistics of TaoVA-100x

Start at: 2019-10-03 20:06:07 End at: 2019-10-03 20:06:37 Local clock offset: -0.039 ms Remote clock offset: -0.238 ms

Below is generated by plot.py at 2019-10-03 22:24:50

Datalink statistics
-- Total of 1 flow:

Average throughput: 211.34 Mbit/s

95th percentile per-packet one-way delay: 64.483 ms

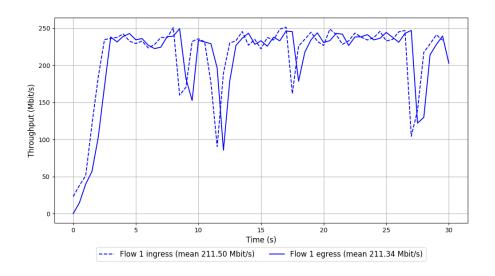
Loss rate: 0.46%

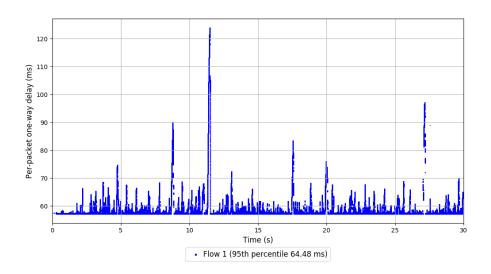
-- Flow 1:

Average throughput: 211.34 Mbit/s

95th percentile per-packet one-way delay: 64.483 ms

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





Run 1: Statistics of TCP Vegas

Start at: 2019-10-03 17:20:38 End at: 2019-10-03 17:21:08 Local clock offset: 0.389 ms Remote clock offset: -0.054 ms

Below is generated by plot.py at 2019-10-03 22:30:52

Datalink statistics
-- Total of 1 flow:

Average throughput: 479.36 Mbit/s

95th percentile per-packet one-way delay: 83.150 ms

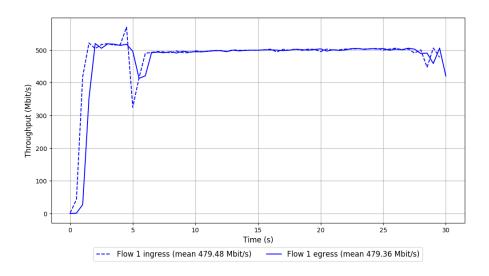
Loss rate: 0.42%

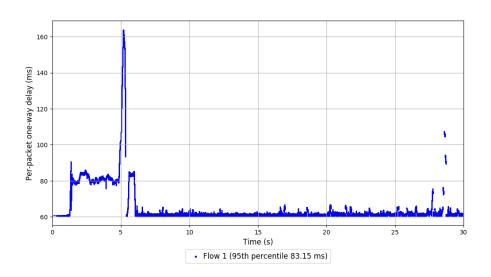
-- Flow 1:

Average throughput: 479.36 Mbit/s

95th percentile per-packet one-way delay: 83.150 ms

Run 1: Report of TCP Vegas — Data Link





Run 2: Statistics of TCP Vegas

Start at: 2019-10-03 17:55:01 End at: 2019-10-03 17:55:31 Local clock offset: -0.433 ms Remote clock offset: 0.051 ms

Below is generated by plot.py at 2019-10-03 22:31:31

Datalink statistics
-- Total of 1 flow:

Average throughput: 477.38 Mbit/s

95th percentile per-packet one-way delay: 84.238 ms

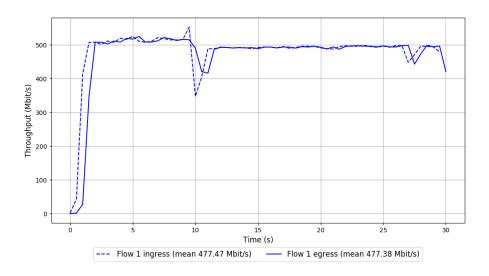
Loss rate: 0.41%

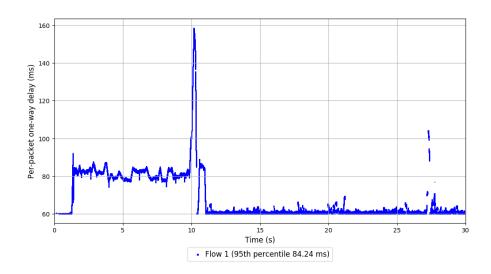
-- Flow 1:

Average throughput: 477.38 Mbit/s

95th percentile per-packet one-way delay: 84.238 ms

Run 2: Report of TCP Vegas — Data Link





Run 3: Statistics of TCP Vegas

Start at: 2019-10-03 18:29:25 End at: 2019-10-03 18:29:55 Local clock offset: -0.098 ms Remote clock offset: 0.034 ms

Below is generated by plot.py at 2019-10-03 22:31:57

Datalink statistics
-- Total of 1 flow:

Average throughput: 471.82 Mbit/s

95th percentile per-packet one-way delay: 89.370 ms

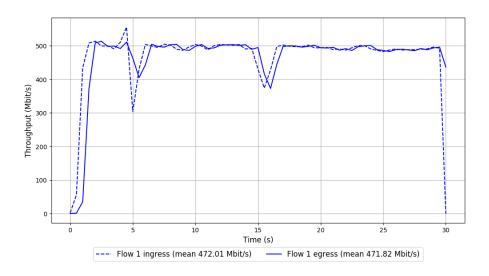
Loss rate: 0.42%

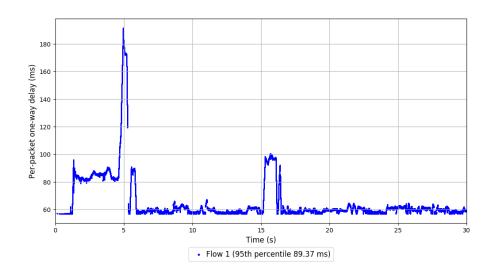
-- Flow 1:

Average throughput: 471.82 Mbit/s

95th percentile per-packet one-way delay: 89.370 ms

Run 3: Report of TCP Vegas — Data Link





Run 4: Statistics of TCP Vegas

Start at: 2019-10-03 19:03:50 End at: 2019-10-03 19:04:21 Local clock offset: -0.441 ms Remote clock offset: -0.817 ms

Below is generated by plot.py at 2019-10-03 22:32:18

Datalink statistics
-- Total of 1 flow:

Average throughput: 434.31 Mbit/s

95th percentile per-packet one-way delay: 109.765 ms

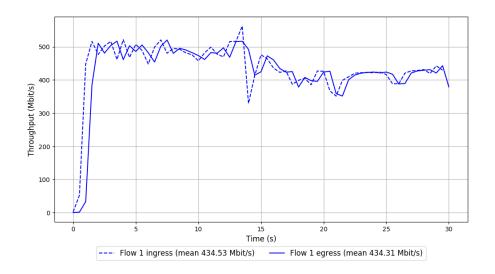
Loss rate: 0.43%

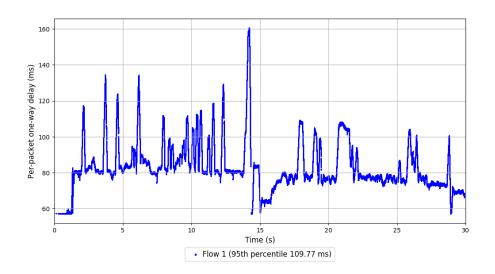
-- Flow 1:

Average throughput: 434.31 Mbit/s

95th percentile per-packet one-way delay: 109.765 ms

Run 4: Report of TCP Vegas — Data Link





Run 5: Statistics of TCP Vegas

Start at: 2019-10-03 19:37:50 End at: 2019-10-03 19:38:20 Local clock offset: 0.202 ms Remote clock offset: -0.193 ms

Below is generated by plot.py at 2019-10-03 22:32:31

Datalink statistics
-- Total of 1 flow:

Average throughput: 434.66 Mbit/s

95th percentile per-packet one-way delay: 77.073 ms

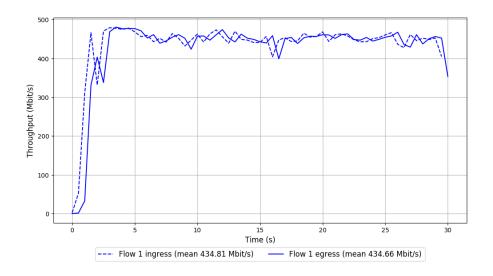
Loss rate: 0.42%

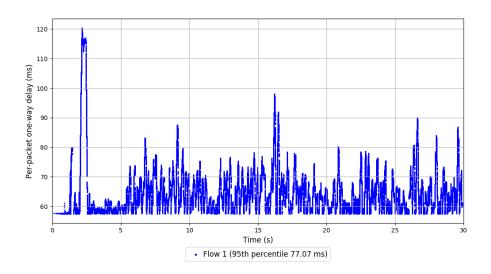
-- Flow 1:

Average throughput: 434.66 Mbit/s

95th percentile per-packet one-way delay: 77.073 ms

Run 5: Report of TCP Vegas — Data Link





Run 1: Statistics of Verus

Start at: 2019-10-03 17:41:41 End at: 2019-10-03 17:42:11 Local clock offset: -0.197 ms Remote clock offset: 0.077 ms

Below is generated by plot.py at 2019-10-03 22:32:31

Datalink statistics
-- Total of 1 flow:

Average throughput: 63.65 Mbit/s

95th percentile per-packet one-way delay: 124.207 ms

Loss rate: 0.00%

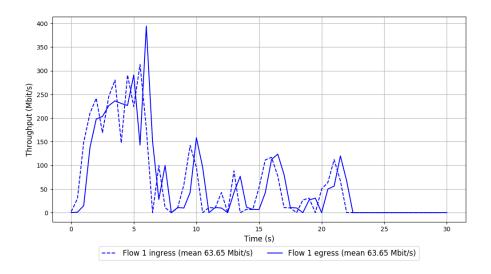
-- Flow 1:

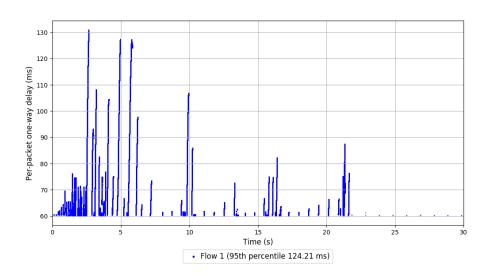
Average throughput: 63.65 Mbit/s

95th percentile per-packet one-way delay: 124.207 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link





Run 2: Statistics of Verus

Start at: 2019-10-03 18:16:01 End at: 2019-10-03 18:16:31 Local clock offset: -0.118 ms Remote clock offset: -0.031 ms

Below is generated by plot.py at 2019-10-03 22:32:31

Datalink statistics
-- Total of 1 flow:

Average throughput: 95.58 Mbit/s

95th percentile per-packet one-way delay: 148.180 ms

Loss rate: 2.27%

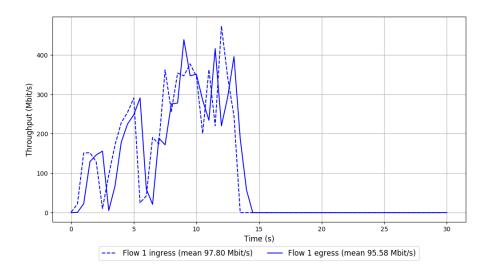
-- Flow 1:

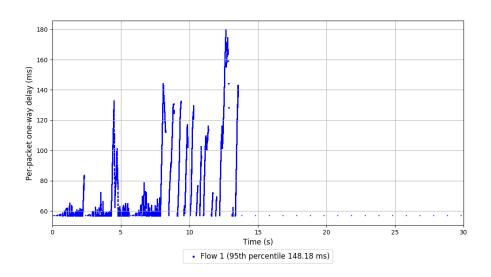
Average throughput: 95.58 Mbit/s

95th percentile per-packet one-way delay: 148.180 ms

Loss rate: 2.27%

Run 2: Report of Verus — Data Link





Run 3: Statistics of Verus

Start at: 2019-10-03 18:50:29 End at: 2019-10-03 18:50:59 Local clock offset: -0.016 ms Remote clock offset: 0.093 ms

Below is generated by plot.py at 2019-10-03 22:32:31

Datalink statistics
-- Total of 1 flow:

Average throughput: 119.23 Mbit/s

95th percentile per-packet one-way delay: 114.352 ms

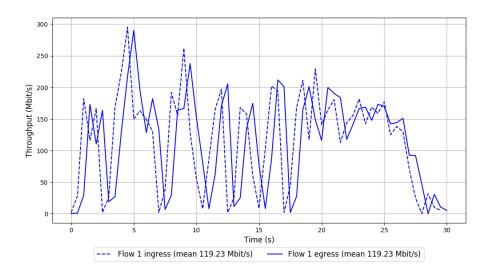
Loss rate: 0.00%

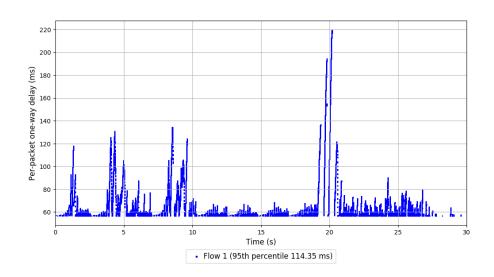
-- Flow 1:

Average throughput: 119.23 Mbit/s

95th percentile per-packet one-way delay: 114.352 ms

Run 3: Report of Verus — Data Link





Run 4: Statistics of Verus

Start at: 2019-10-03 19:24:40 End at: 2019-10-03 19:25:10 Local clock offset: -0.387 ms Remote clock offset: -0.124 ms

Below is generated by plot.py at 2019-10-03 22:32:31

Datalink statistics
-- Total of 1 flow:

Average throughput: 45.95 Mbit/s

95th percentile per-packet one-way delay: 125.327 ms

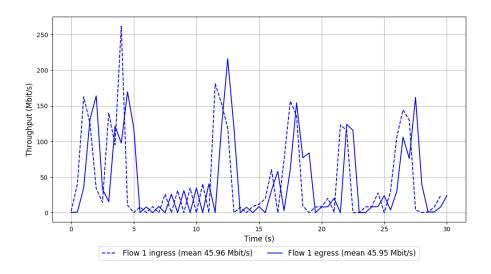
Loss rate: 0.00%

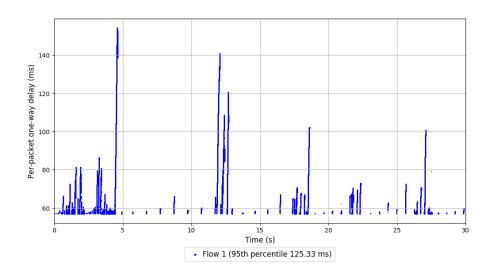
-- Flow 1:

Average throughput: 45.95 Mbit/s

95th percentile per-packet one-way delay: 125.327 ms

Run 4: Report of Verus — Data Link





Run 5: Statistics of Verus

Start at: 2019-10-03 19:58:56 End at: 2019-10-03 19:59:26 Local clock offset: 0.206 ms Remote clock offset: -0.262 ms

Below is generated by plot.py at 2019-10-03 22:32:31

Datalink statistics
-- Total of 1 flow:

Average throughput: 75.60 Mbit/s

95th percentile per-packet one-way delay: 91.235 ms

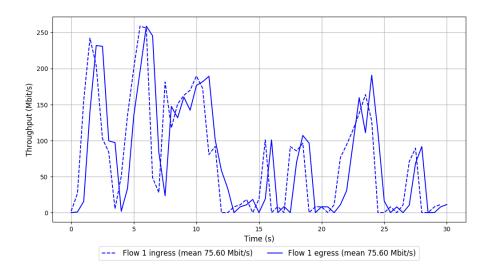
Loss rate: 0.00%

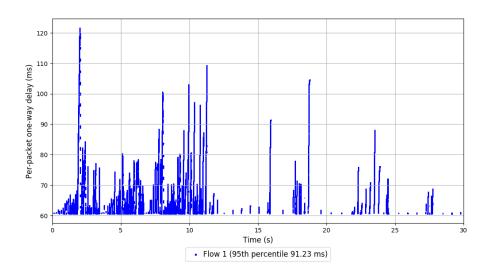
-- Flow 1:

Average throughput: 75.60 Mbit/s

95th percentile per-packet one-way delay: 91.235 ms

Run 5: Report of Verus — Data Link





Run 1: Statistics of PCC-Vivace

Start at: 2019-10-03 17:31:37 End at: 2019-10-03 17:32:07 Local clock offset: 0.134 ms Remote clock offset: -0.04 ms

Below is generated by plot.py at 2019-10-03 22:34:15

Datalink statistics
-- Total of 1 flow:

Average throughput: 316.13 Mbit/s

95th percentile per-packet one-way delay: 58.782 ms

Loss rate: 0.41%

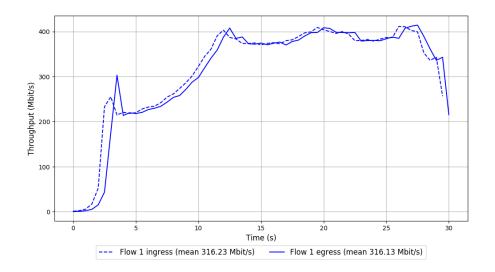
-- Flow 1:

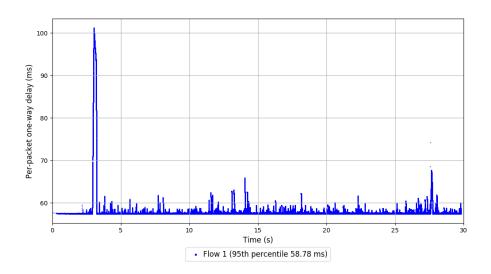
Average throughput: 316.13 Mbit/s

95th percentile per-packet one-way delay: 58.782 ms

Loss rate: 0.41%

Run 1: Report of PCC-Vivace — Data Link





Run 2: Statistics of PCC-Vivace

Start at: 2019-10-03 18:05:58 End at: 2019-10-03 18:06:28 Local clock offset: -0.055 ms Remote clock offset: -0.067 ms

Below is generated by plot.py at 2019-10-03 22:35:07

Datalink statistics
-- Total of 1 flow:

Average throughput: 350.83 Mbit/s

95th percentile per-packet one-way delay: 67.940 ms

Loss rate: 0.44%

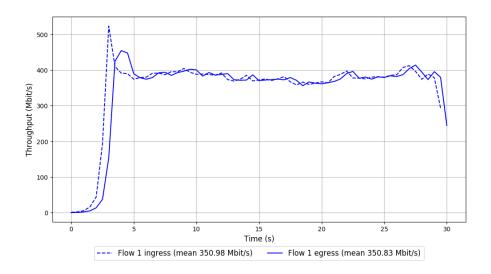
-- Flow 1:

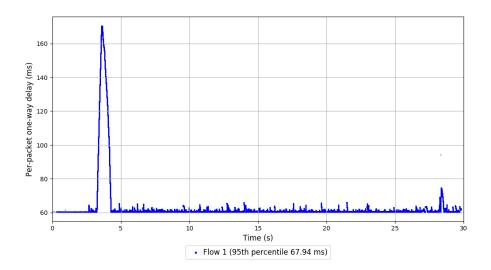
Average throughput: 350.83 Mbit/s

95th percentile per-packet one-way delay: 67.940 ms

Loss rate: 0.44%

Run 2: Report of PCC-Vivace — Data Link





Run 3: Statistics of PCC-Vivace

Start at: 2019-10-03 18:40:29 End at: 2019-10-03 18:40:59 Local clock offset: 0.208 ms Remote clock offset: -0.05 ms

Below is generated by plot.py at 2019-10-03 22:35:08

Datalink statistics
-- Total of 1 flow:

Average throughput: 339.02 Mbit/s

95th percentile per-packet one-way delay: 116.964 ms

Loss rate: 0.41%

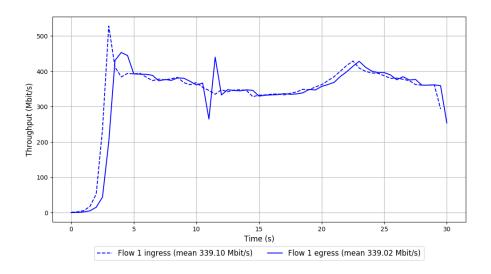
-- Flow 1:

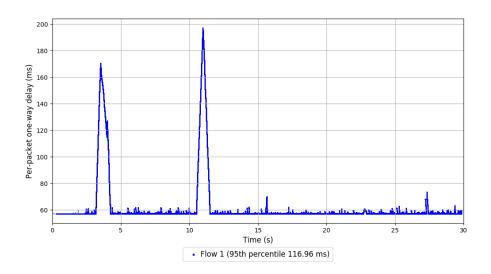
Average throughput: 339.02 Mbit/s

95th percentile per-packet one-way delay: 116.964 ms

Loss rate: 0.41%

Run 3: Report of PCC-Vivace — Data Link





Run 4: Statistics of PCC-Vivace

Start at: 2019-10-03 19:14:51 End at: 2019-10-03 19:15:21 Local clock offset: -0.179 ms Remote clock offset: -0.32 ms

Below is generated by plot.py at 2019-10-03 22:35:08

Datalink statistics
-- Total of 1 flow:

Average throughput: 257.99 Mbit/s

95th percentile per-packet one-way delay: 72.826 ms

Loss rate: 0.49%

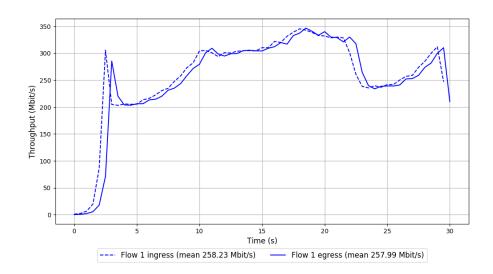
-- Flow 1:

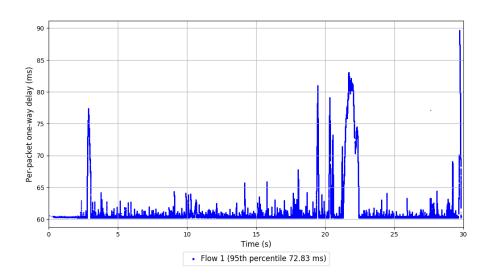
Average throughput: 257.99 Mbit/s

95th percentile per-packet one-way delay: 72.826 ms

Loss rate: 0.49%

Run 4: Report of PCC-Vivace — Data Link





Run 5: Statistics of PCC-Vivace

Start at: 2019-10-03 19:49:00 End at: 2019-10-03 19:49:30 Local clock offset: -0.204 ms Remote clock offset: -0.047 ms

Below is generated by plot.py at 2019-10-03 22:35:08

Datalink statistics
-- Total of 1 flow:

Average throughput: 258.09 Mbit/s

95th percentile per-packet one-way delay: 80.815 ms

Loss rate: 0.48%

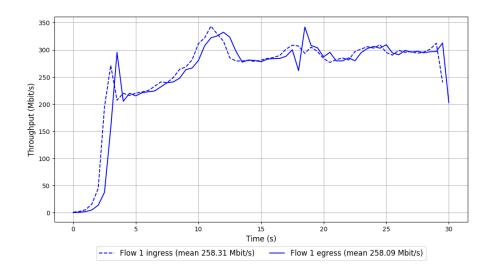
-- Flow 1:

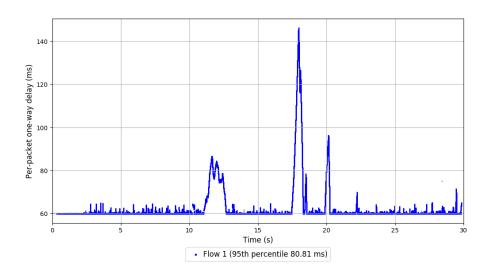
Average throughput: 258.09 Mbit/s

95th percentile per-packet one-way delay: 80.815 ms

Loss rate: 0.48%

Run 5: Report of PCC-Vivace — Data Link

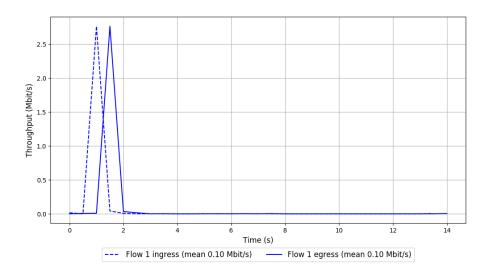


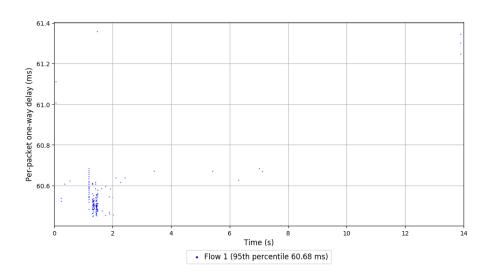


Run 1: Statistics of WebRTC media

Start at: 2019-10-03 17:40:33 End at: 2019-10-03 17:41:03 Local clock offset: 0.411 ms Remote clock offset: 0.054 ms

Run 1: Report of WebRTC media — Data Link





Run 2: Statistics of WebRTC media

Start at: 2019-10-03 18:14:53 End at: 2019-10-03 18:15:23 Local clock offset: -0.035 ms Remote clock offset: 0.013 ms

Below is generated by plot.py at 2019-10-03 22:35:08

Datalink statistics
-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 57.098 ms

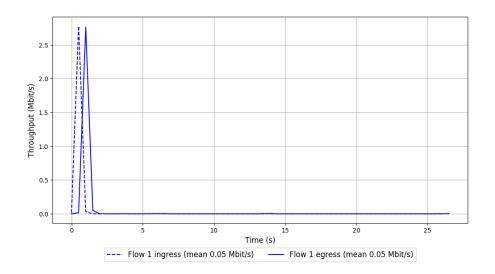
Loss rate: 0.00%

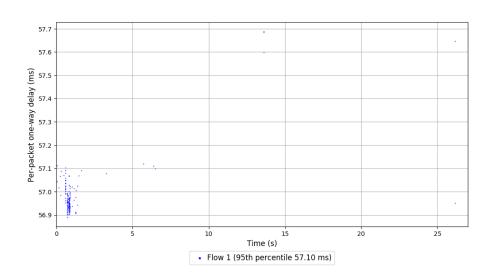
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 57.098 ms

Run 2: Report of WebRTC media — Data Link





Run 3: Statistics of WebRTC media

Start at: 2019-10-03 18:49:21 End at: 2019-10-03 18:49:51 Local clock offset: -0.017 ms Remote clock offset: -0.226 ms

Below is generated by plot.py at 2019-10-03 22:35:08

Datalink statistics
-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 60.838 ms

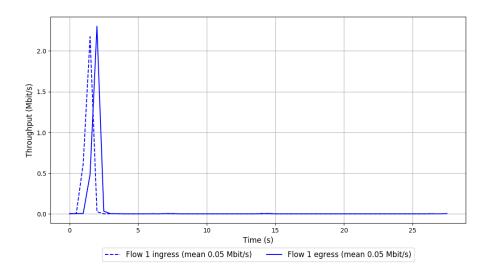
Loss rate: 0.00%

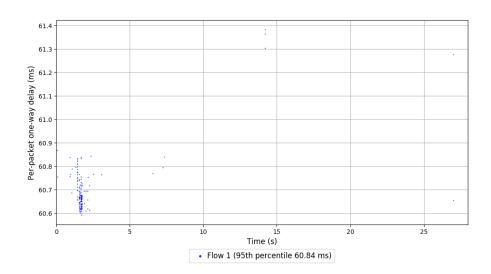
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 60.838 ms

Run 3: Report of WebRTC media — Data Link





Run 4: Statistics of WebRTC media

Start at: 2019-10-03 19:23:32 End at: 2019-10-03 19:24:02 Local clock offset: -0.027 ms Remote clock offset: -0.1 ms

Below is generated by plot.py at 2019-10-03 22:35:08

Datalink statistics
-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 60.390 ms

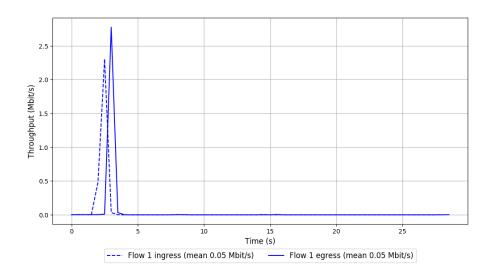
Loss rate: 0.00%

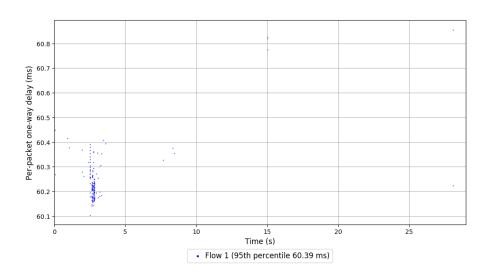
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 60.390 ms

Run 4: Report of WebRTC media — Data Link





Run 5: Statistics of WebRTC media

Start at: 2019-10-03 19:57:48 End at: 2019-10-03 19:58:18 Local clock offset: -0.013 ms Remote clock offset: -0.207 ms

Below is generated by plot.py at 2019-10-03 22:35:08

Datalink statistics
-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 57.651 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 57.651 ms

Run 5: Report of WebRTC media — Data Link

