

Pantheon Report

Generated at 2018-03-15 05:06:21 (UTC).

Data path: China Ethernet (*remote*) → AWS Korea Ethernet (*local*).

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

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

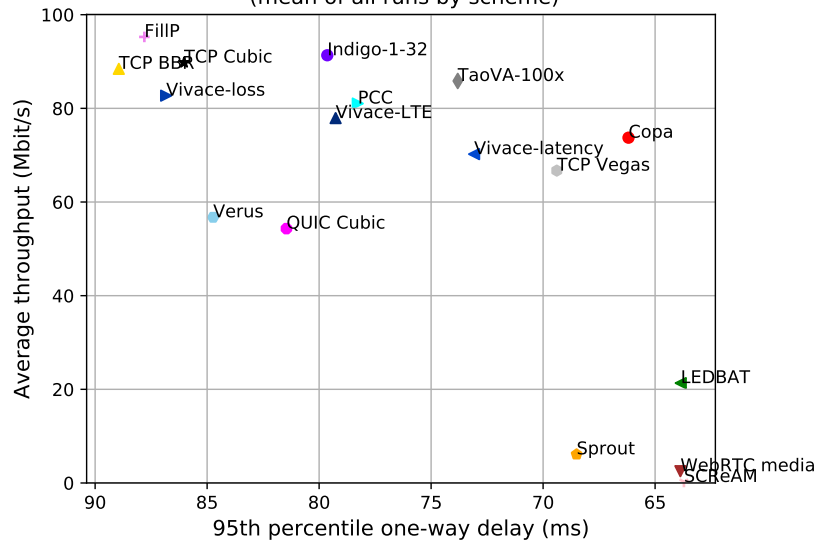
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

NTP offsets were measured against `ntp.nict.jp` and have been applied to correct the timestamps in logs.

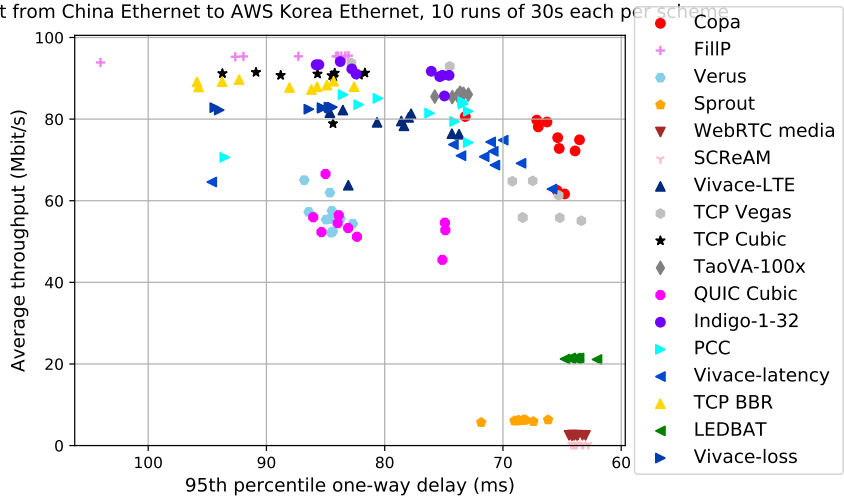
Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from China Ethernet to AWS Korea Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from China Ethernet to AWS Korea Ethernet, 10 runs of 30s each per scheme



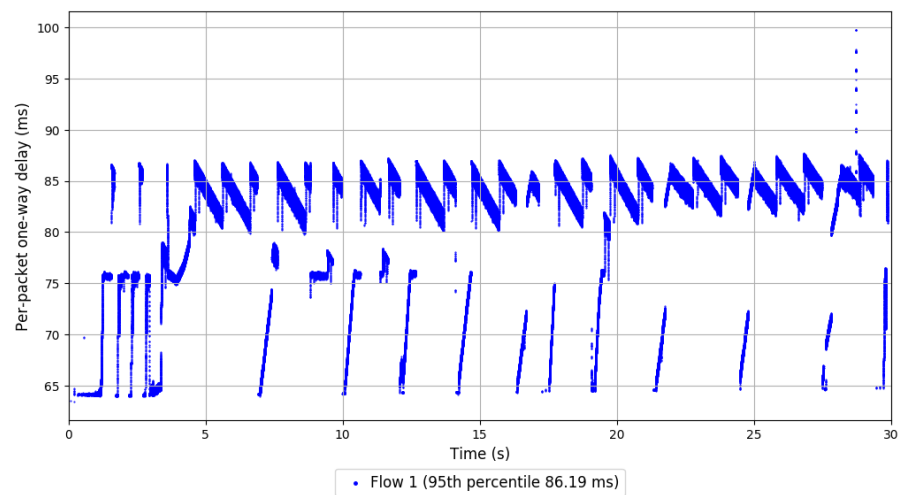
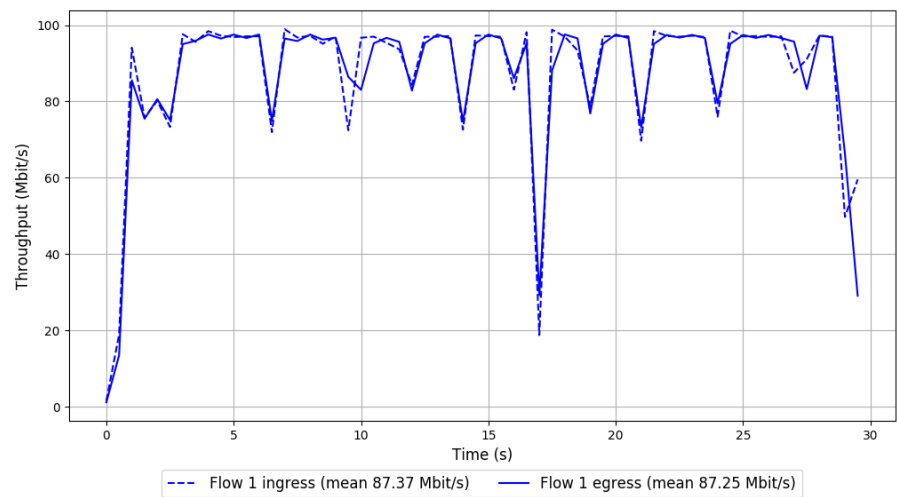
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	88.44	88.94	0.52
TCP Cubic	10	89.78	86.03	0.49
LEDBAT	10	21.33	63.86	0.86
PCC	10	81.03	78.27	0.50
QUIC Cubic	10	54.32	81.46	0.72
SCReAM	10	0.22	63.71	0.39
WebRTC media	10	2.51	63.87	0.53
Sprout	9	6.12	68.51	0.48
TaoVA-100x	10	85.85	73.81	1.13
TCP Vegas	9	66.70	69.39	0.44
Verus	10	56.74	84.73	0.57
Copa	10	73.73	66.19	0.46
FillP	10	95.25	87.80	0.54
Indigo-1-32	10	91.34	79.64	0.47
Vivace-latency	10	70.23	73.08	0.55
Vivace-loss	10	82.71	86.83	0.63
Vivace-LTE	10	77.92	79.26	0.54

Run 1: Statistics of TCP BBR

Start at: 2018-03-14 20:50:26
End at: 2018-03-14 20:50:56
Local clock offset: -5.434 ms
Remote clock offset: -0.739 ms

Below is generated by plot.py at 2018-03-15 04:44:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.25 Mbit/s
95th percentile per-packet one-way delay: 86.195 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 87.25 Mbit/s
95th percentile per-packet one-way delay: 86.195 ms
Loss rate: 0.58%

Run 1: Report of TCP BBR — Data Link

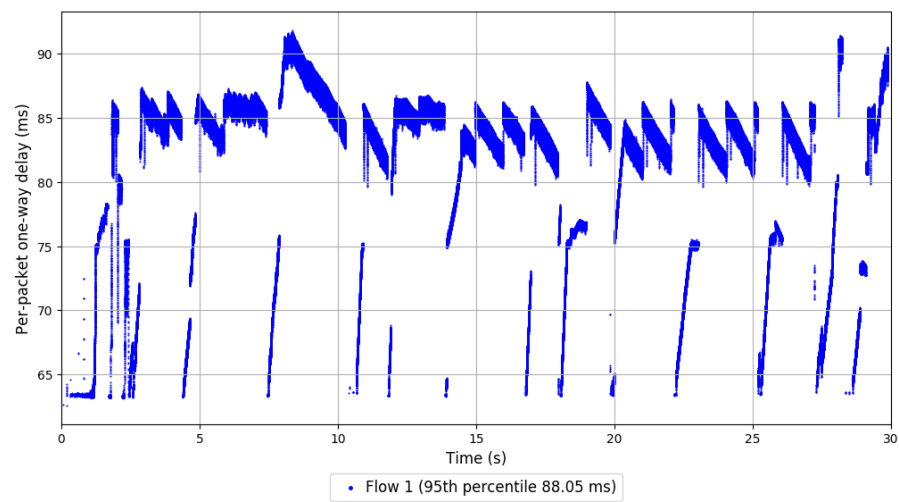
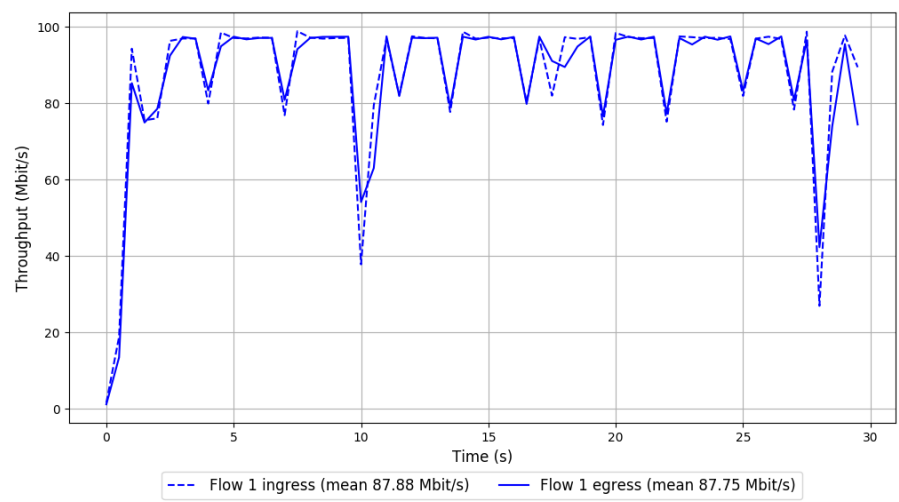


Run 2: Statistics of TCP BBR

Start at: 2018-03-14 21:13:43
End at: 2018-03-14 21:14:13
Local clock offset: -9.231 ms
Remote clock offset: -3.628 ms

Below is generated by plot.py at 2018-03-15 04:44:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.75 Mbit/s
95th percentile per-packet one-way delay: 88.051 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 87.75 Mbit/s
95th percentile per-packet one-way delay: 88.051 ms
Loss rate: 0.60%

Run 2: Report of TCP BBR — Data Link

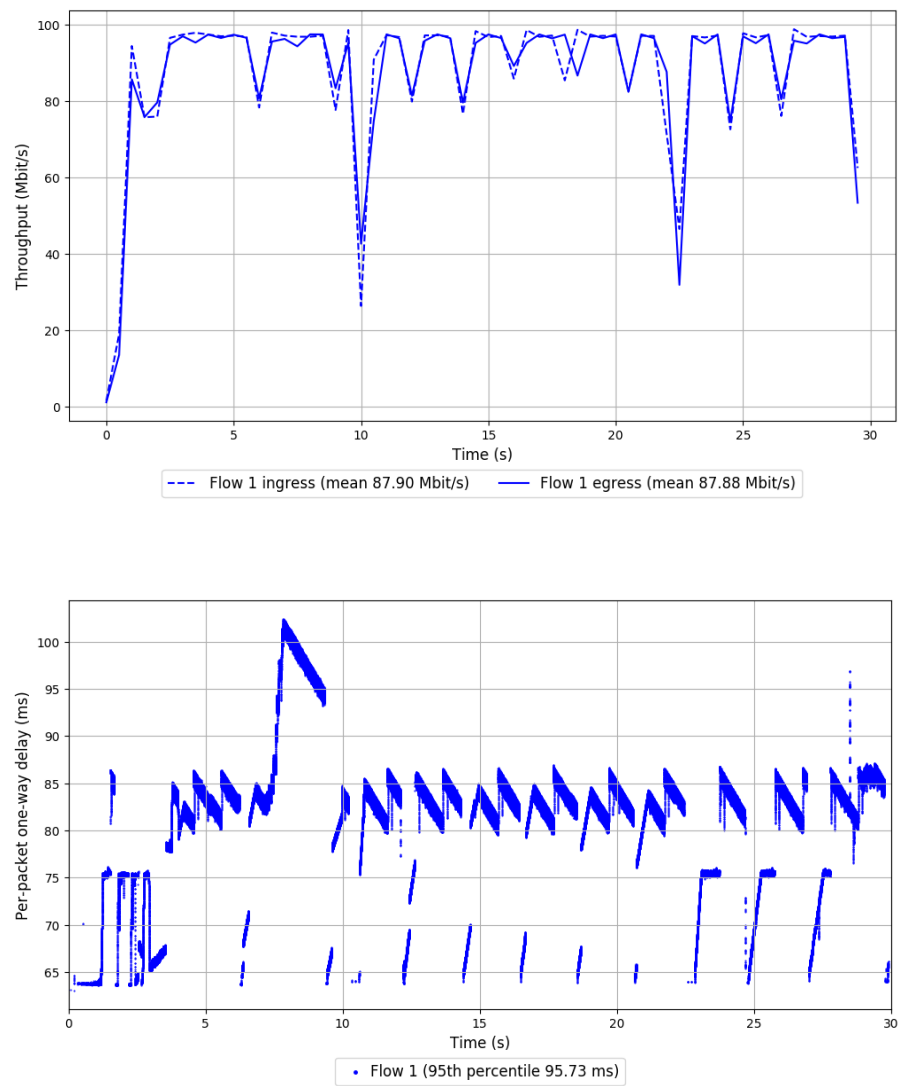


Run 3: Statistics of TCP BBR

Start at: 2018-03-14 21:37:37
End at: 2018-03-14 21:38:08
Local clock offset: -7.16 ms
Remote clock offset: -2.005 ms

Below is generated by plot.py at 2018-03-15 04:44:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.88 Mbit/s
95th percentile per-packet one-way delay: 95.735 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 87.88 Mbit/s
95th percentile per-packet one-way delay: 95.735 ms
Loss rate: 0.49%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-03-14 22:01:01

End at: 2018-03-14 22:01:31

Local clock offset: -1.355 ms

Remote clock offset: 1.077 ms

Below is generated by plot.py at 2018-03-15 04:44:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.29 Mbit/s

95th percentile per-packet one-way delay: 84.322 ms

Loss rate: 0.57%

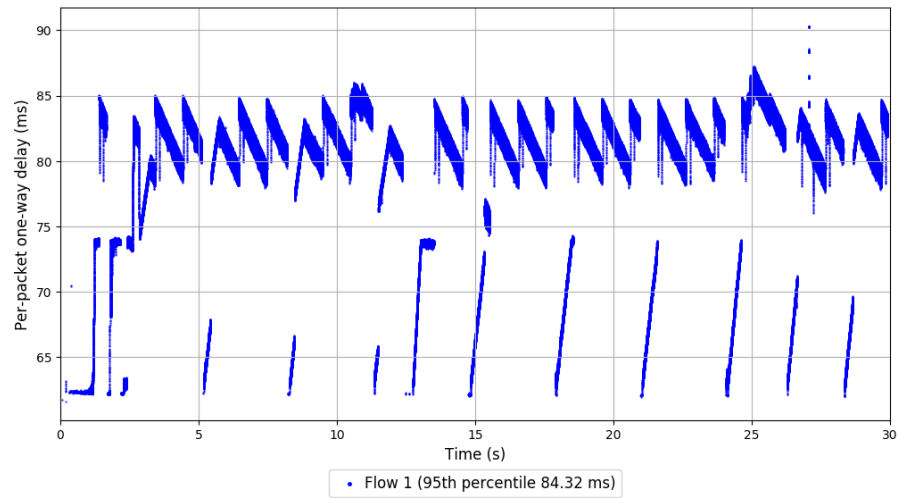
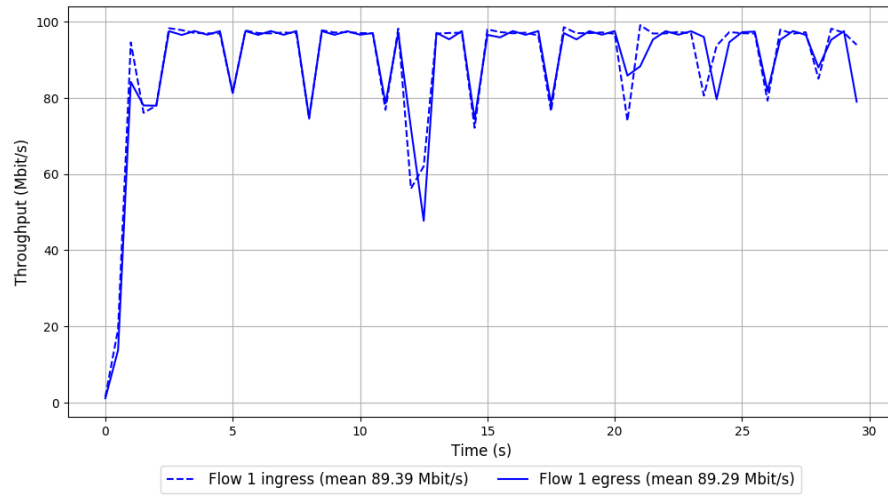
-- Flow 1:

Average throughput: 89.29 Mbit/s

95th percentile per-packet one-way delay: 84.322 ms

Loss rate: 0.57%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-03-14 22:24:26

End at: 2018-03-14 22:24:56

Local clock offset: 1.298 ms

Remote clock offset: -7.588 ms

Below is generated by plot.py at 2018-03-15 04:44:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.19 Mbit/s

95th percentile per-packet one-way delay: 93.748 ms

Loss rate: 0.55%

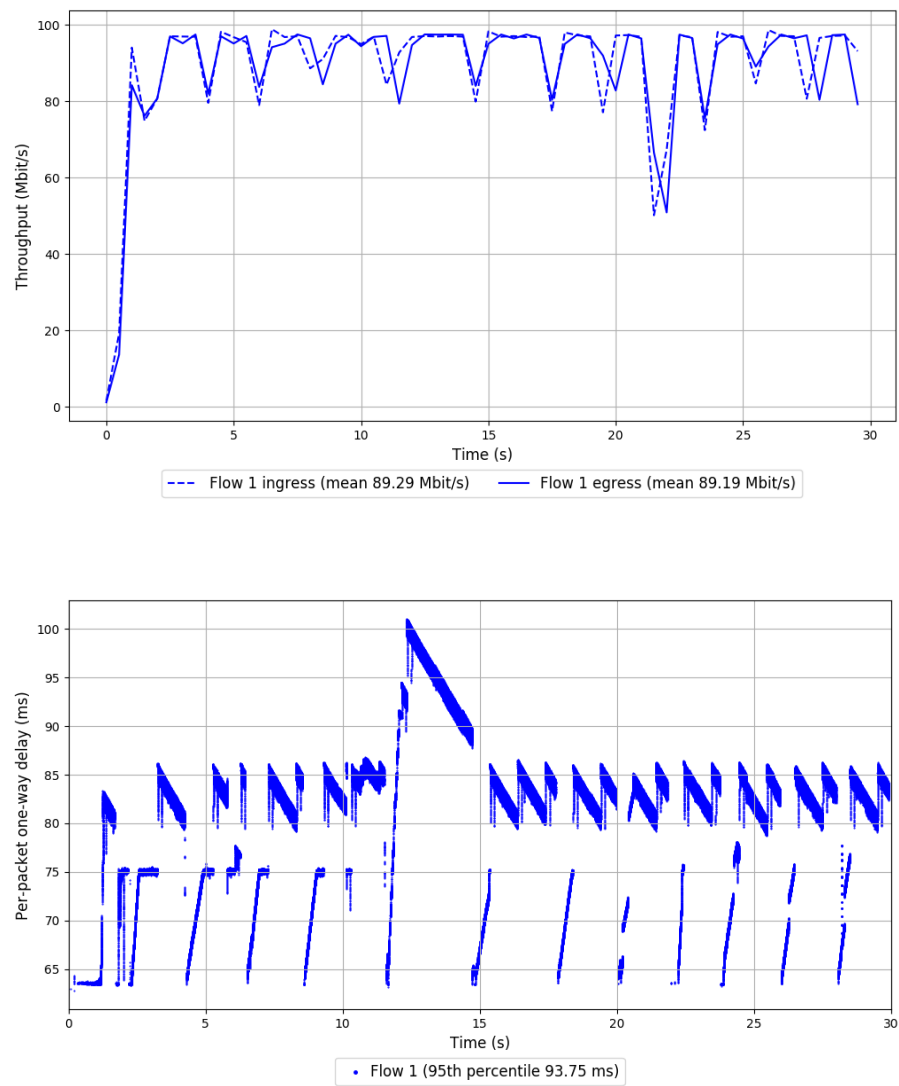
-- Flow 1:

Average throughput: 89.19 Mbit/s

95th percentile per-packet one-way delay: 93.748 ms

Loss rate: 0.55%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-03-14 22:47:44

End at: 2018-03-14 22:48:14

Local clock offset: -1.484 ms

Remote clock offset: -3.519 ms

Below is generated by plot.py at 2018-03-15 04:44:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.93 Mbit/s

95th percentile per-packet one-way delay: 85.716 ms

Loss rate: 0.59%

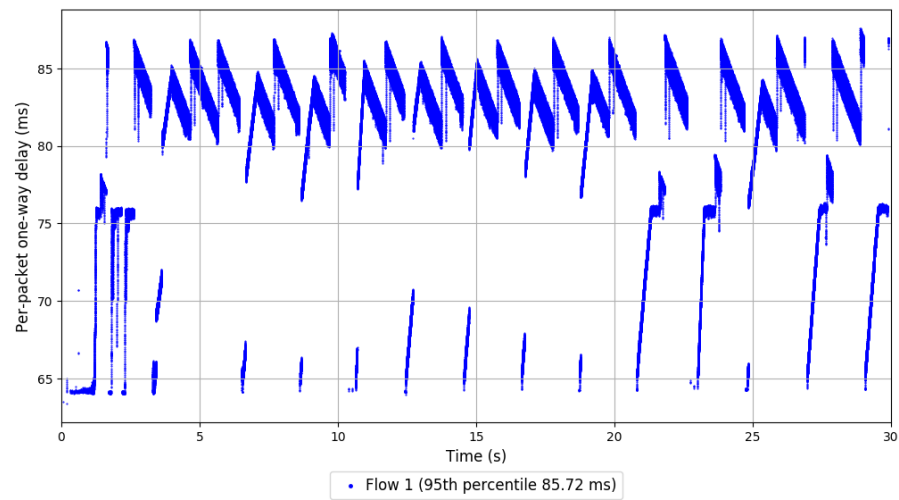
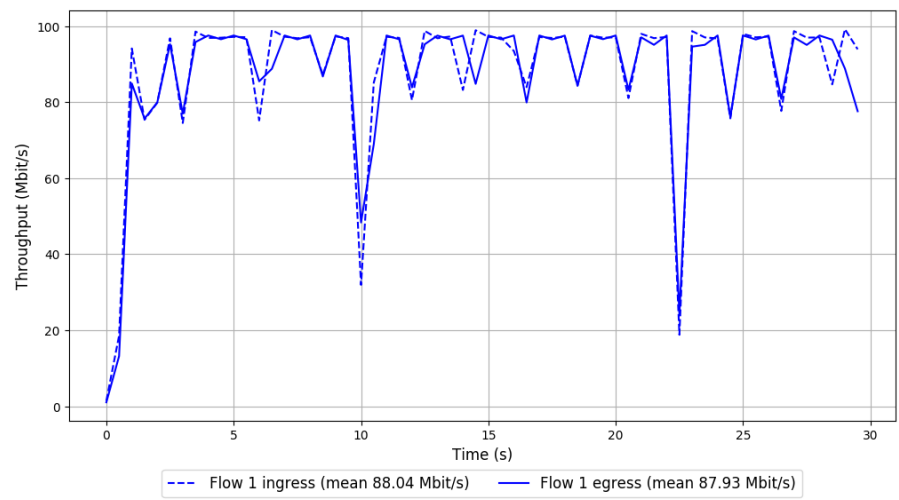
-- Flow 1:

Average throughput: 87.93 Mbit/s

95th percentile per-packet one-way delay: 85.716 ms

Loss rate: 0.59%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-03-14 23:11:01

End at: 2018-03-14 23:11:31

Local clock offset: 1.492 ms

Remote clock offset: 1.577 ms

Below is generated by plot.py at 2018-03-15 04:44:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.67 Mbit/s

95th percentile per-packet one-way delay: 92.310 ms

Loss rate: 0.57%

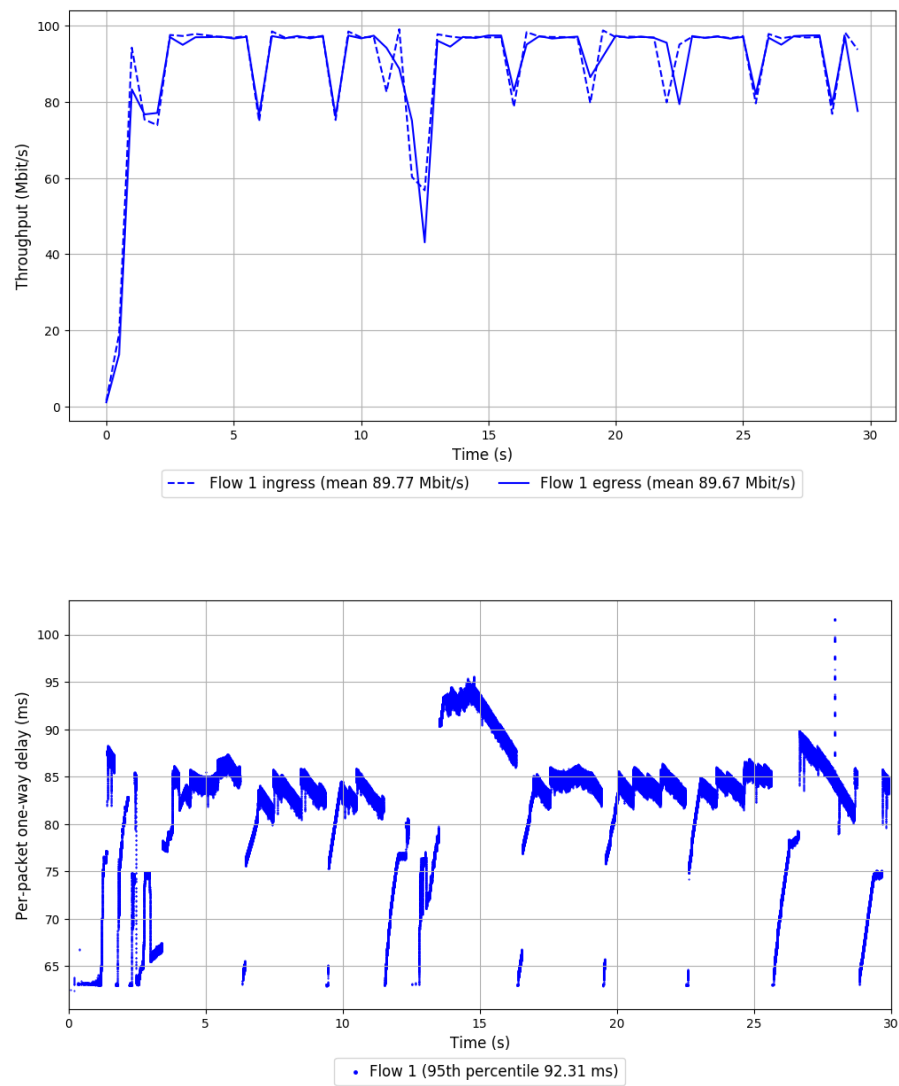
-- Flow 1:

Average throughput: 89.67 Mbit/s

95th percentile per-packet one-way delay: 92.310 ms

Loss rate: 0.57%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-03-14 23:34:20

End at: 2018-03-14 23:34:50

Local clock offset: 2.52 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-03-15 04:44:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.33 Mbit/s

95th percentile per-packet one-way delay: 84.889 ms

Loss rate: 0.14%

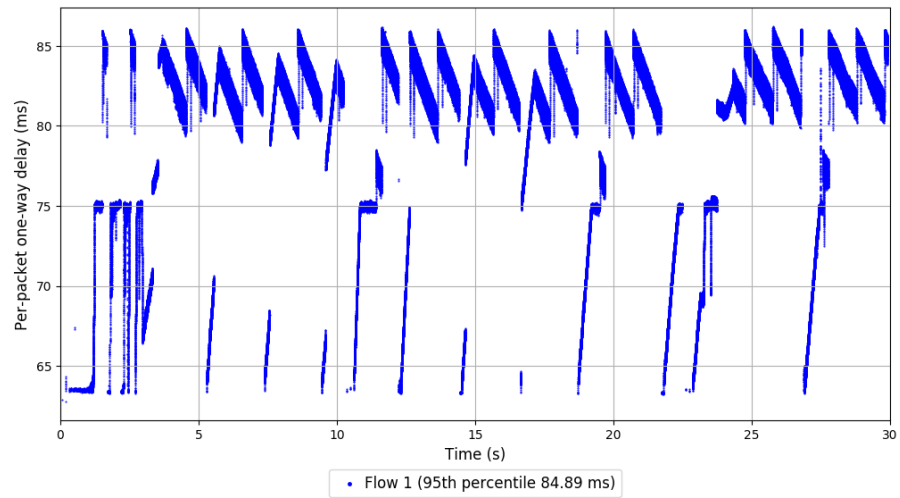
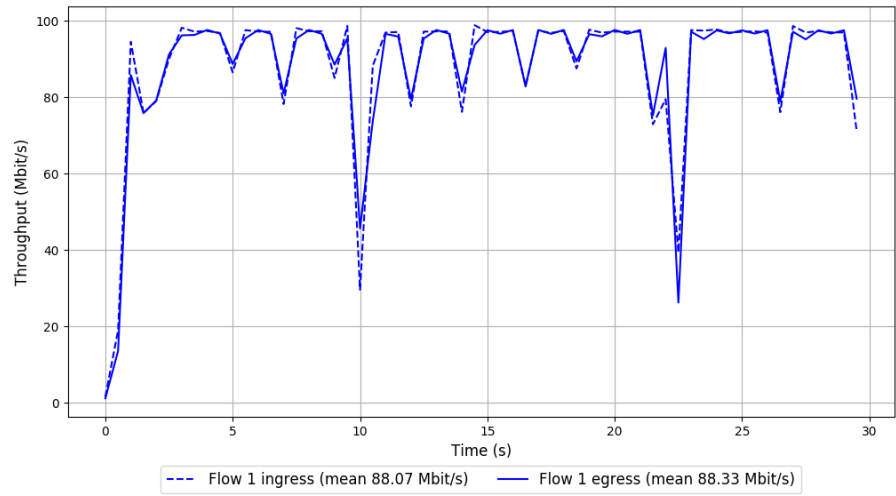
-- Flow 1:

Average throughput: 88.33 Mbit/s

95th percentile per-packet one-way delay: 84.889 ms

Loss rate: 0.14%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-03-14 23:57:38

End at: 2018-03-14 23:58:08

Local clock offset: 4.967 ms

Remote clock offset: 0.098 ms

Below is generated by plot.py at 2018-03-15 04:46:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.13 Mbit/s

95th percentile per-packet one-way delay: 95.874 ms

Loss rate: 0.57%

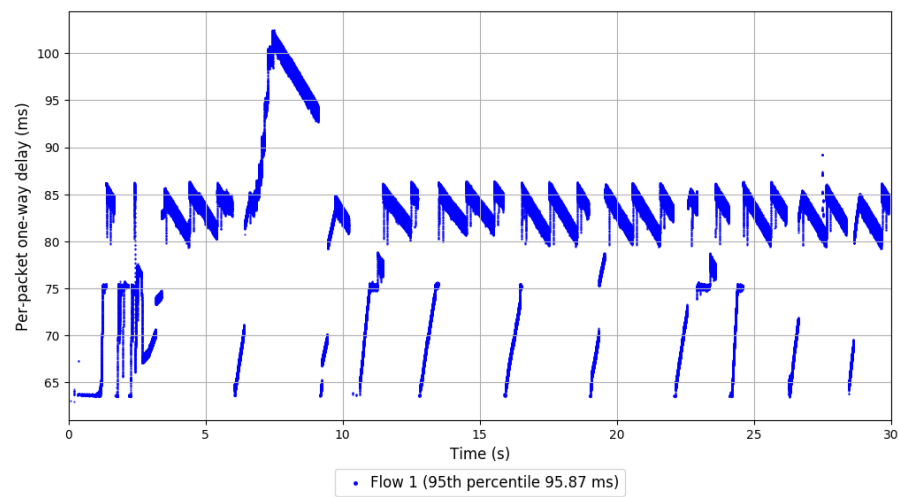
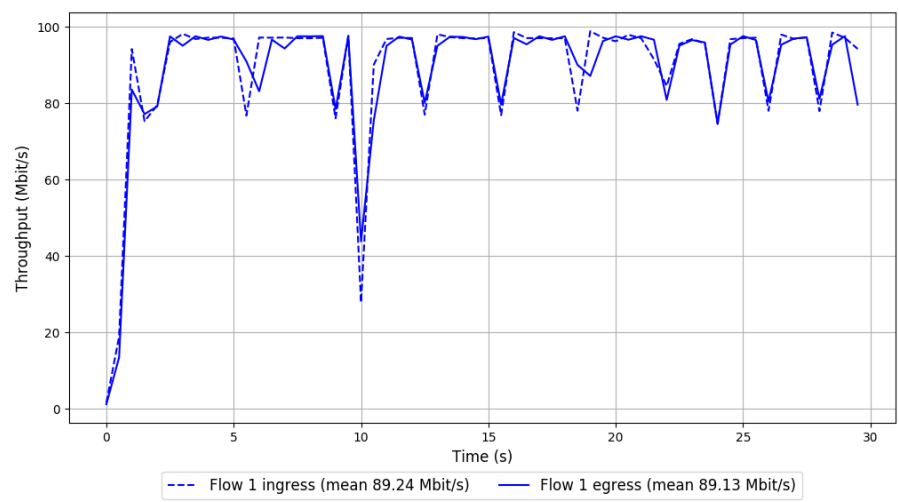
-- Flow 1:

Average throughput: 89.13 Mbit/s

95th percentile per-packet one-way delay: 95.874 ms

Loss rate: 0.57%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-03-15 00:20:54

End at: 2018-03-15 00:21:24

Local clock offset: 2.786 ms

Remote clock offset: 0.518 ms

Below is generated by plot.py at 2018-03-15 04:46:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.95 Mbit/s

95th percentile per-packet one-way delay: 82.586 ms

Loss rate: 0.57%

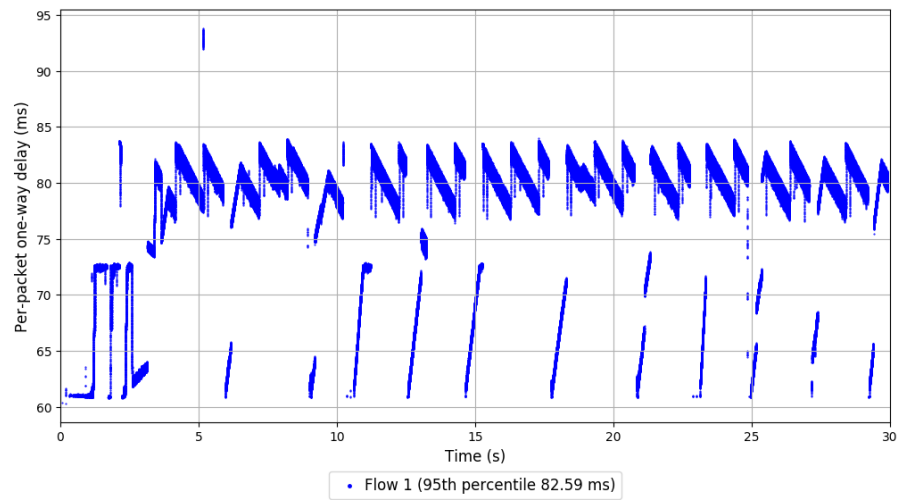
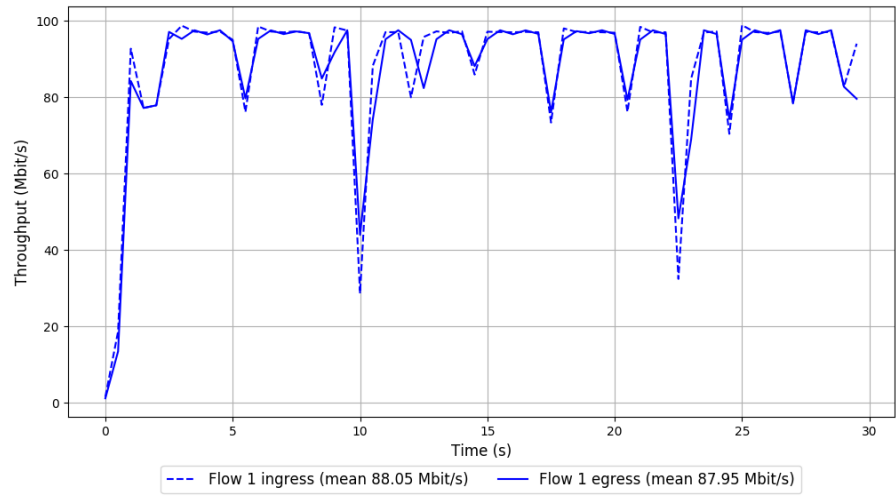
-- Flow 1:

Average throughput: 87.95 Mbit/s

95th percentile per-packet one-way delay: 82.586 ms

Loss rate: 0.57%

Run 10: Report of TCP BBR — Data Link

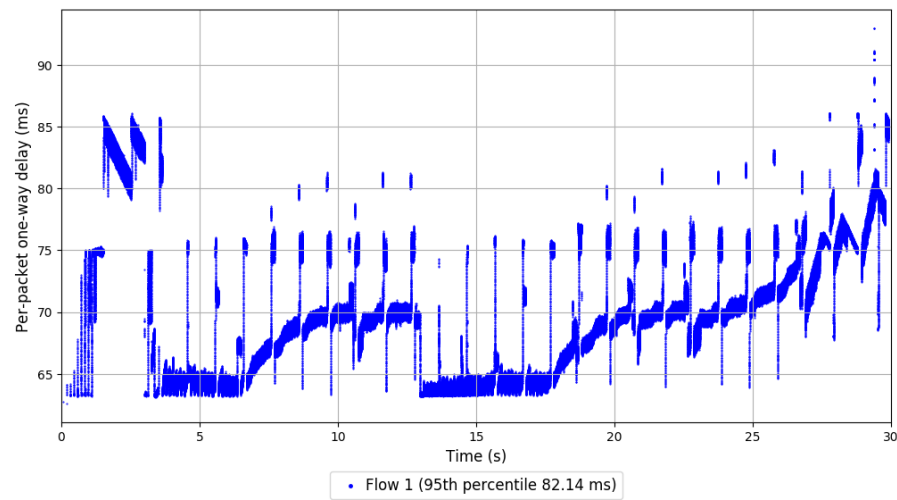
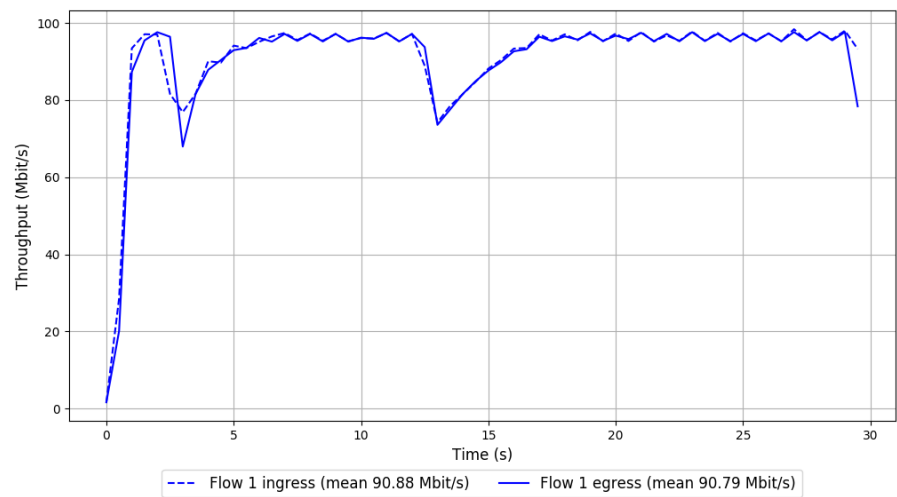


Run 1: Statistics of TCP Cubic

Start at: 2018-03-14 20:55:18
End at: 2018-03-14 20:55:48
Local clock offset: -2.008 ms
Remote clock offset: -0.695 ms

Below is generated by plot.py at 2018-03-15 04:46:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.79 Mbit/s
95th percentile per-packet one-way delay: 82.142 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 90.79 Mbit/s
95th percentile per-packet one-way delay: 82.142 ms
Loss rate: 0.56%

Run 1: Report of TCP Cubic — Data Link

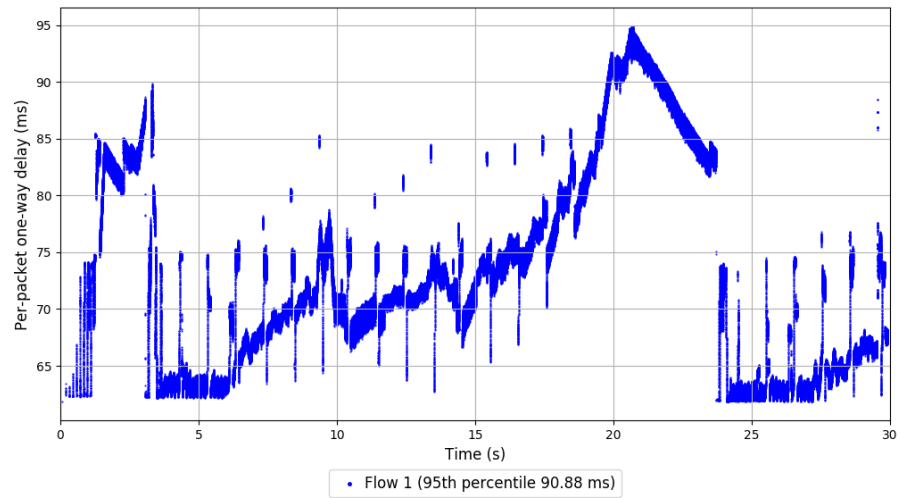
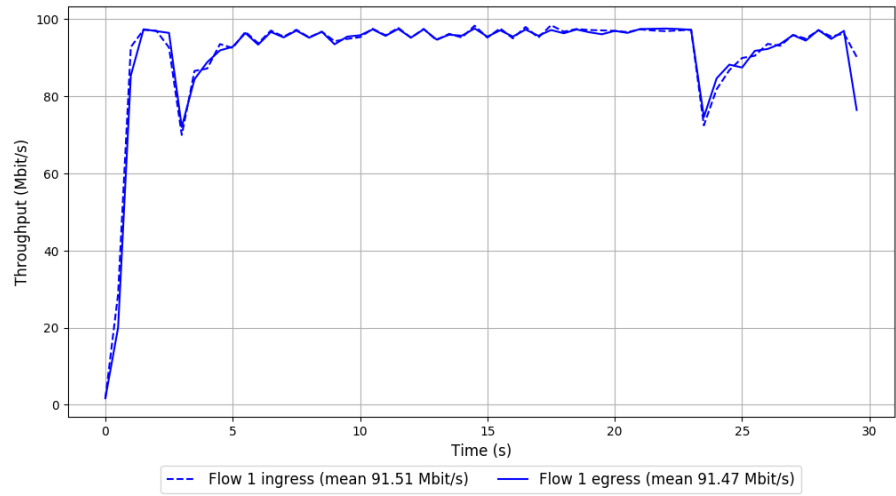


Run 2: Statistics of TCP Cubic

Start at: 2018-03-14 21:18:36
End at: 2018-03-14 21:19:06
Local clock offset: -9.692 ms
Remote clock offset: -3.989 ms

Below is generated by plot.py at 2018-03-15 04:46:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.47 Mbit/s
95th percentile per-packet one-way delay: 90.884 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 91.47 Mbit/s
95th percentile per-packet one-way delay: 90.884 ms
Loss rate: 0.48%

Run 2: Report of TCP Cubic — Data Link

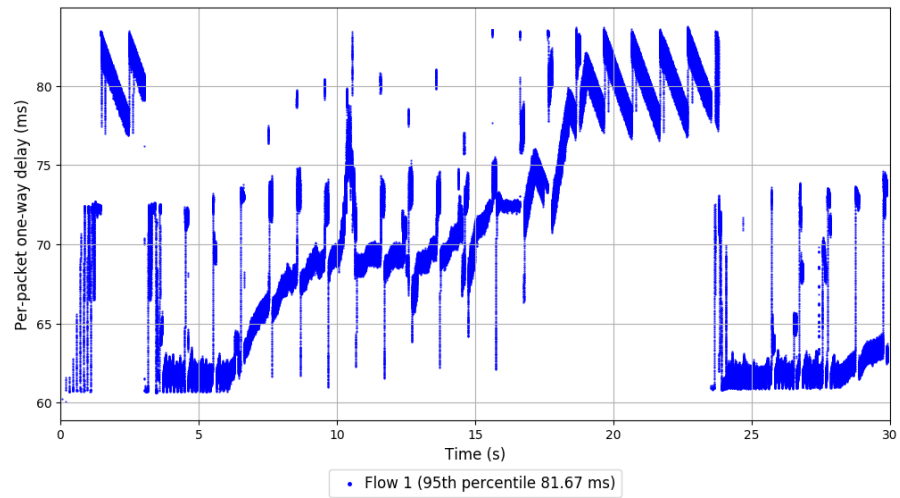
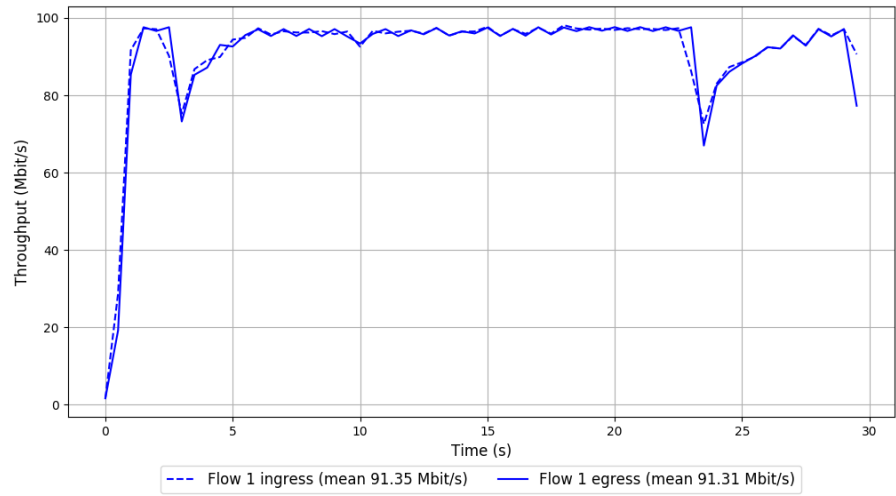


Run 3: Statistics of TCP Cubic

Start at: 2018-03-14 21:42:34
End at: 2018-03-14 21:43:05
Local clock offset: -11.697 ms
Remote clock offset: -0.865 ms

Below is generated by plot.py at 2018-03-15 04:46:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.31 Mbit/s
95th percentile per-packet one-way delay: 81.673 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 91.31 Mbit/s
95th percentile per-packet one-way delay: 81.673 ms
Loss rate: 0.47%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-03-14 22:05:53

End at: 2018-03-14 22:06:23

Local clock offset: 1.064 ms

Remote clock offset: 0.77 ms

Below is generated by plot.py at 2018-03-15 04:46:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.18 Mbit/s

95th percentile per-packet one-way delay: 93.724 ms

Loss rate: 0.49%

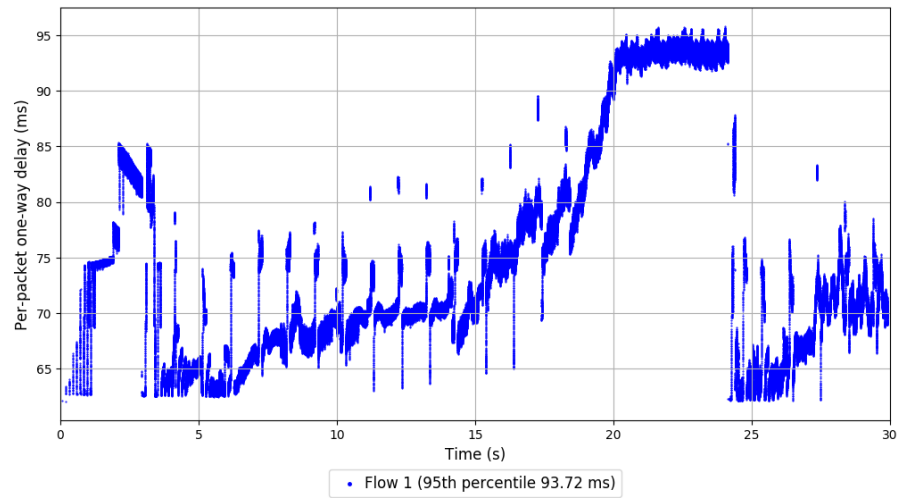
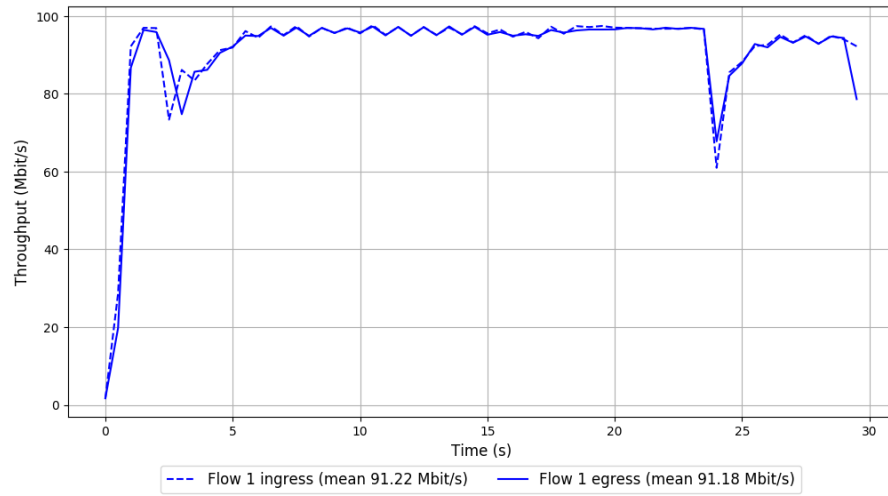
-- Flow 1:

Average throughput: 91.18 Mbit/s

95th percentile per-packet one-way delay: 93.724 ms

Loss rate: 0.49%

Run 4: Report of TCP Cubic — Data Link

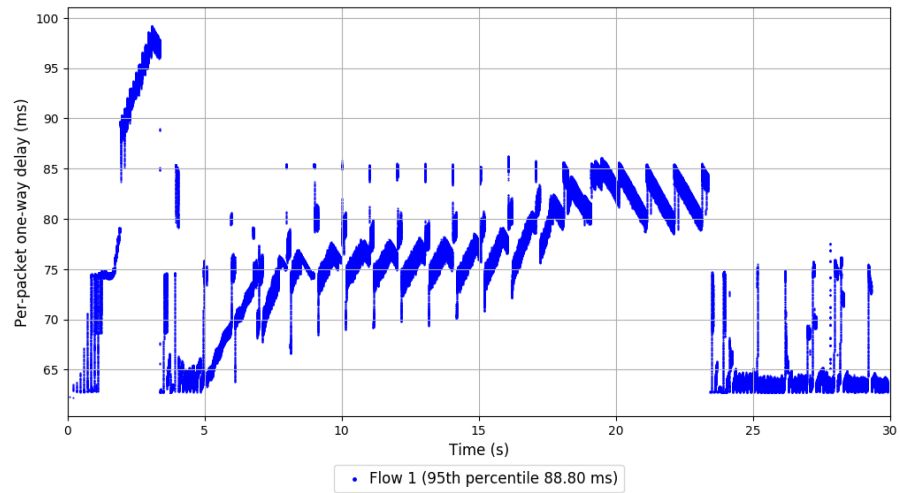
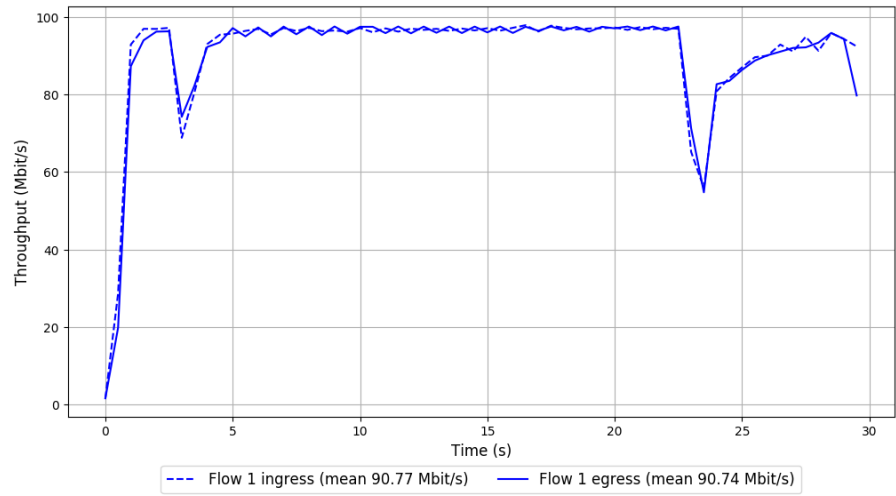


Run 5: Statistics of TCP Cubic

Start at: 2018-03-14 22:29:18
End at: 2018-03-14 22:29:48
Local clock offset: 0.109 ms
Remote clock offset: -8.275 ms

Below is generated by plot.py at 2018-03-15 04:46:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.74 Mbit/s
95th percentile per-packet one-way delay: 88.799 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 90.74 Mbit/s
95th percentile per-packet one-way delay: 88.799 ms
Loss rate: 0.46%

Run 5: Report of TCP Cubic — Data Link

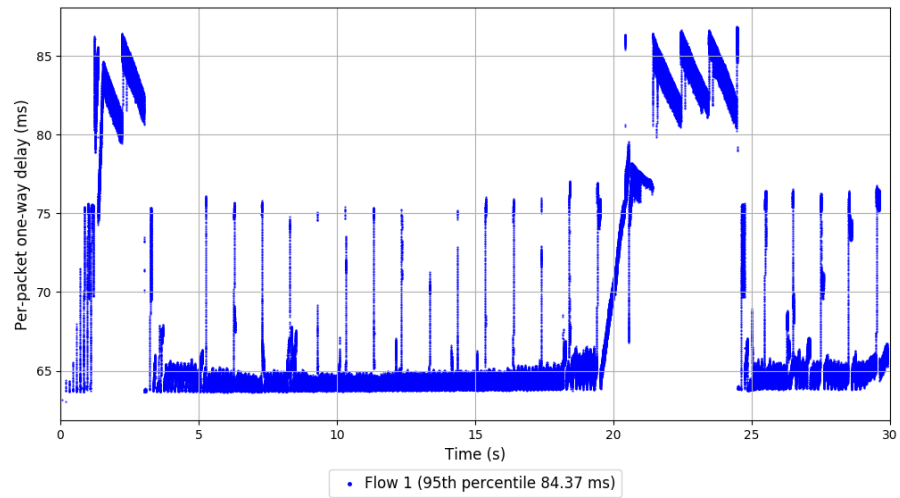
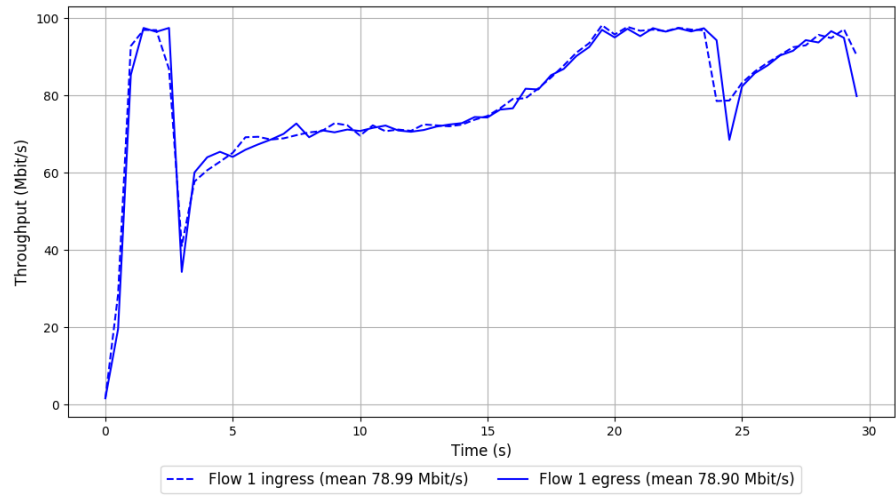


Run 6: Statistics of TCP Cubic

Start at: 2018-03-14 22:52:36
End at: 2018-03-14 22:53:06
Local clock offset: -2.28 ms
Remote clock offset: -1.768 ms

Below is generated by plot.py at 2018-03-15 04:46:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.90 Mbit/s
95th percentile per-packet one-way delay: 84.372 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 78.90 Mbit/s
95th percentile per-packet one-way delay: 84.372 ms
Loss rate: 0.54%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-03-14 23:15:54

End at: 2018-03-14 23:16:24

Local clock offset: 2.181 ms

Remote clock offset: 1.208 ms

Below is generated by plot.py at 2018-03-15 04:47:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.08 Mbit/s

95th percentile per-packet one-way delay: 85.679 ms

Loss rate: 0.47%

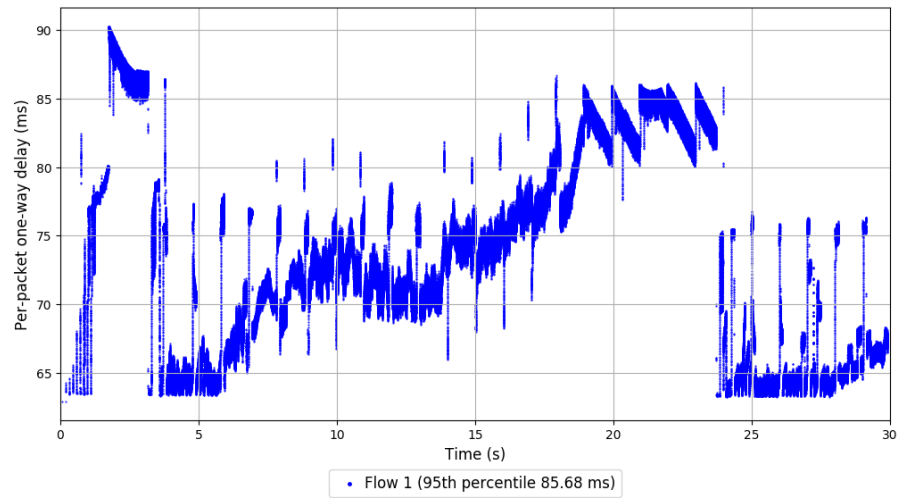
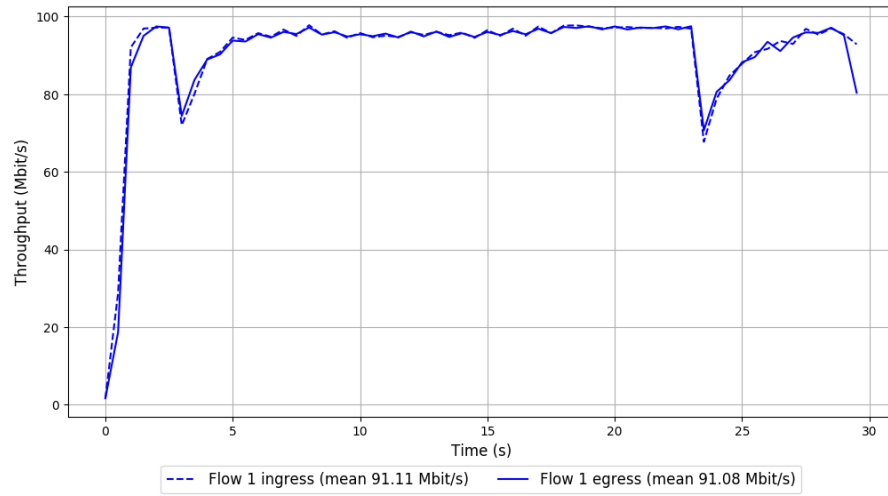
-- Flow 1:

Average throughput: 91.08 Mbit/s

95th percentile per-packet one-way delay: 85.679 ms

Loss rate: 0.47%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-03-14 23:39:12

End at: 2018-03-14 23:39:42

Local clock offset: 3.596 ms

Remote clock offset: 0.06 ms

Below is generated by plot.py at 2018-03-15 04:47:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.29 Mbit/s

95th percentile per-packet one-way delay: 84.230 ms

Loss rate: 0.47%

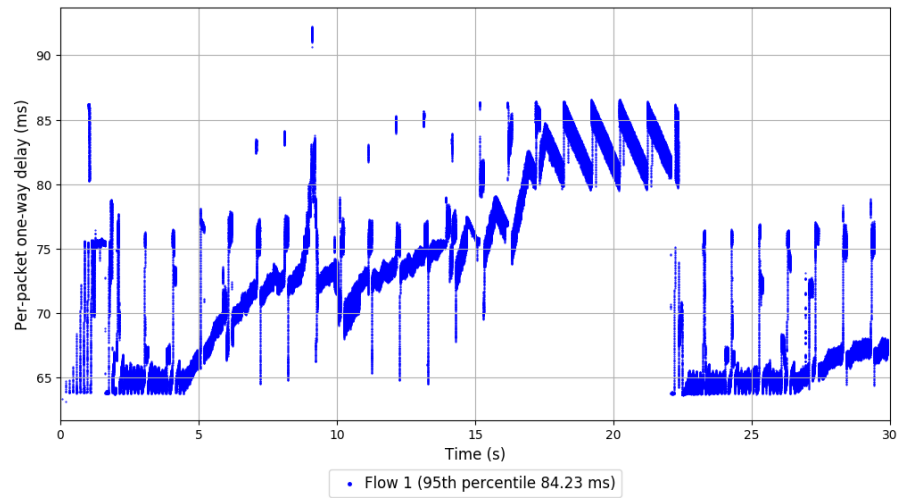
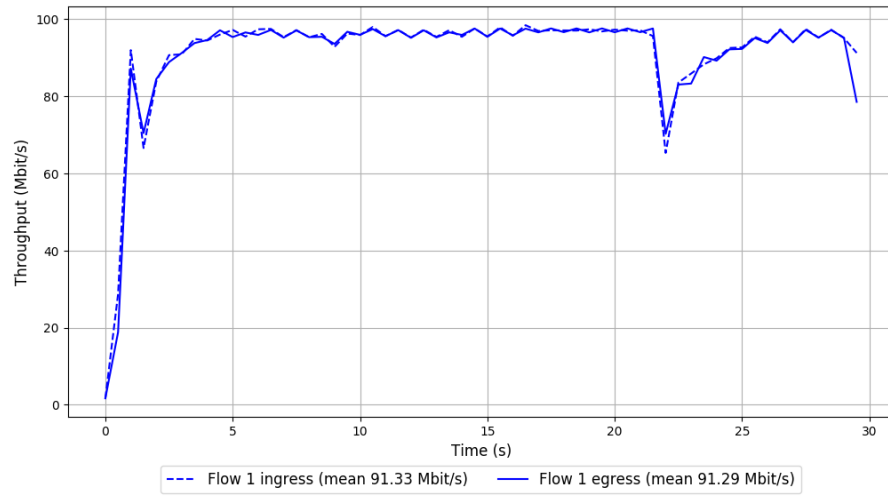
-- Flow 1:

Average throughput: 91.29 Mbit/s

95th percentile per-packet one-way delay: 84.230 ms

Loss rate: 0.47%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-03-15 00:02:30

End at: 2018-03-15 00:03:00

Local clock offset: 4.986 ms

Remote clock offset: 0.127 ms

Below is generated by plot.py at 2018-03-15 04:47:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.34 Mbit/s

95th percentile per-packet one-way delay: 84.311 ms

Loss rate: 0.47%

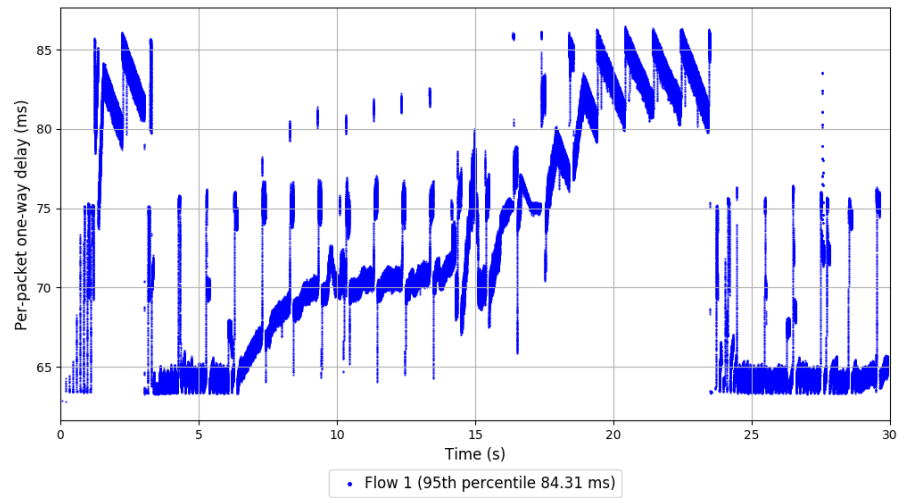
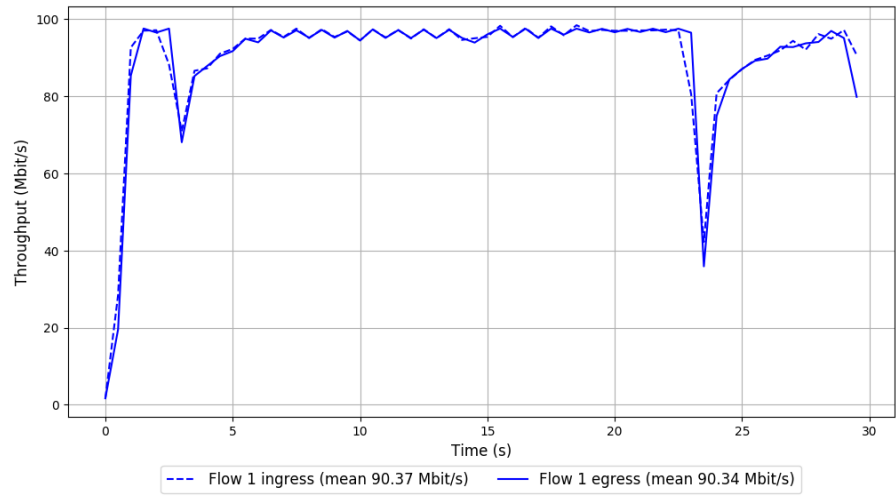
-- Flow 1:

Average throughput: 90.34 Mbit/s

95th percentile per-packet one-way delay: 84.311 ms

Loss rate: 0.47%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-03-15 00:26:33

End at: 2018-03-15 00:27:03

Local clock offset: 5.628 ms

Remote clock offset: 4.742 ms

Below is generated by plot.py at 2018-03-15 04:47:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.68 Mbit/s

95th percentile per-packet one-way delay: 84.478 ms

Loss rate: 0.47%

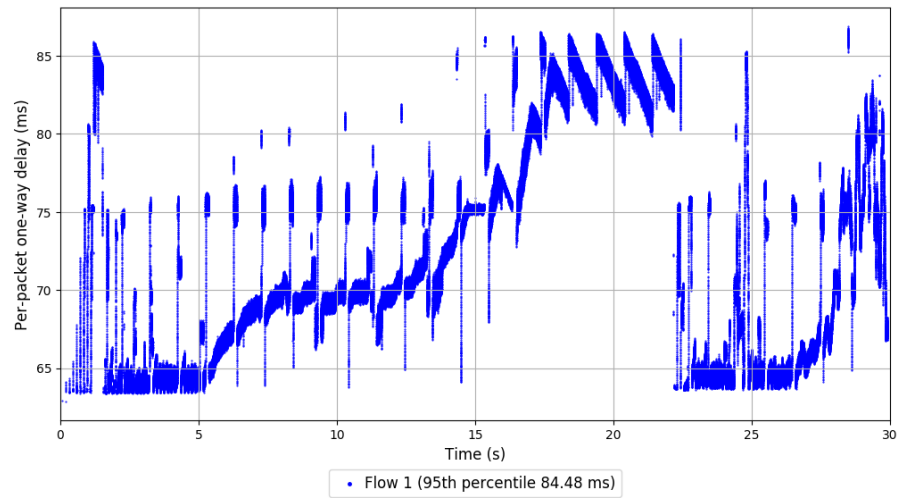
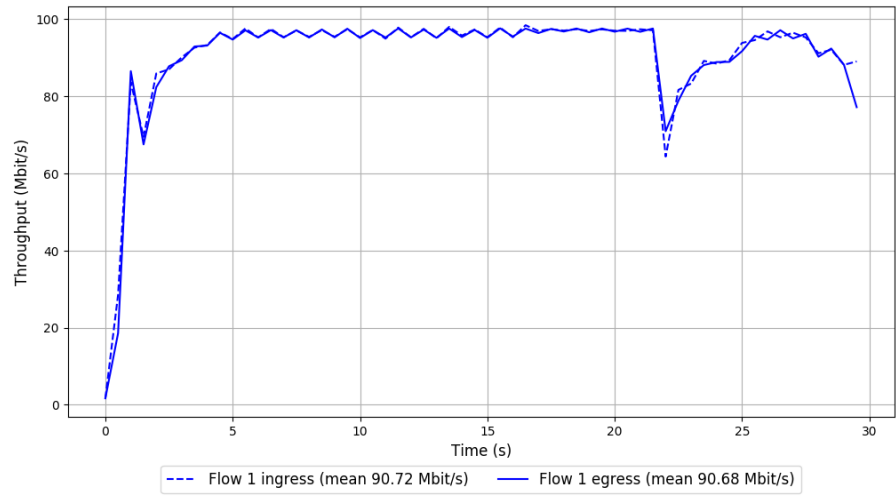
-- Flow 1:

Average throughput: 90.68 Mbit/s

95th percentile per-packet one-way delay: 84.478 ms

Loss rate: 0.47%

Run 10: Report of TCP Cubic — Data Link

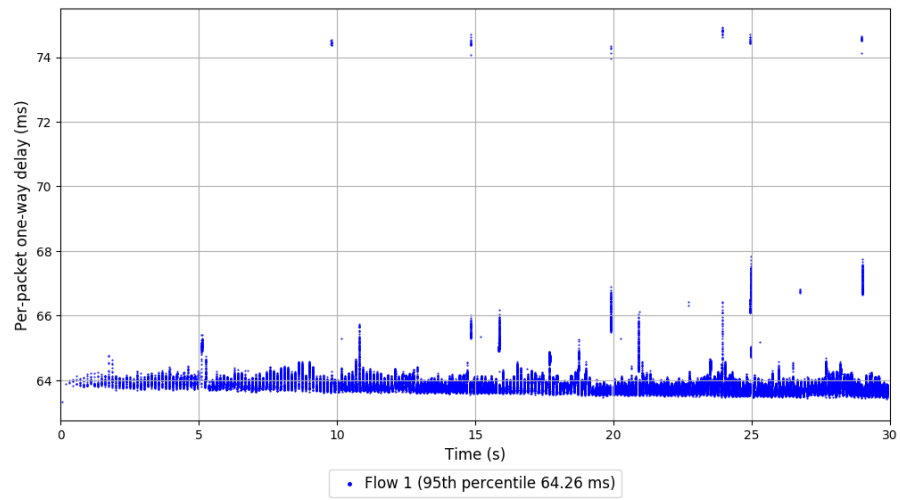
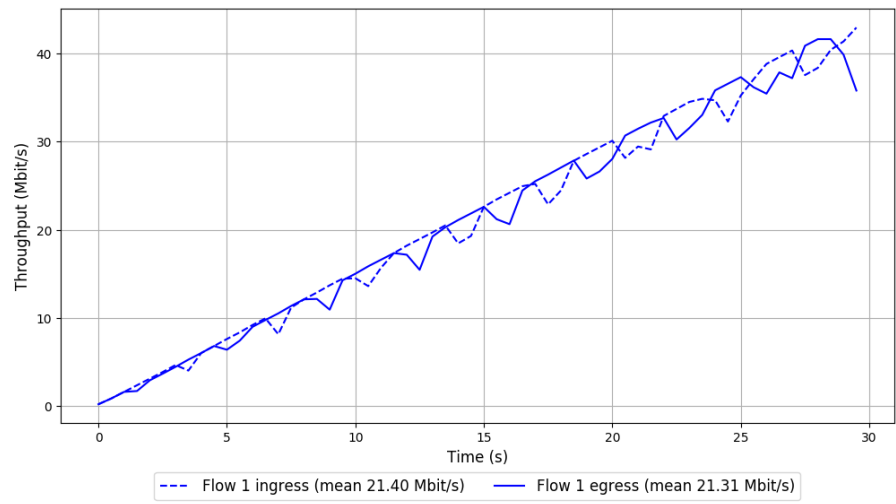


Run 1: Statistics of LEDBAT

Start at: 2018-03-14 21:00:17
End at: 2018-03-14 21:00:47
Local clock offset: -4.261 ms
Remote clock offset: -1.779 ms

Below is generated by plot.py at 2018-03-15 04:47:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 21.31 Mbit/s
95th percentile per-packet one-way delay: 64.257 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 21.31 Mbit/s
95th percentile per-packet one-way delay: 64.257 ms
Loss rate: 0.86%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-03-14 21:23:35

End at: 2018-03-14 21:24:05

Local clock offset: -6.062 ms

Remote clock offset: -4.27 ms

Below is generated by plot.py at 2018-03-15 04:47:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.35 Mbit/s

95th percentile per-packet one-way delay: 63.859 ms

Loss rate: 0.86%

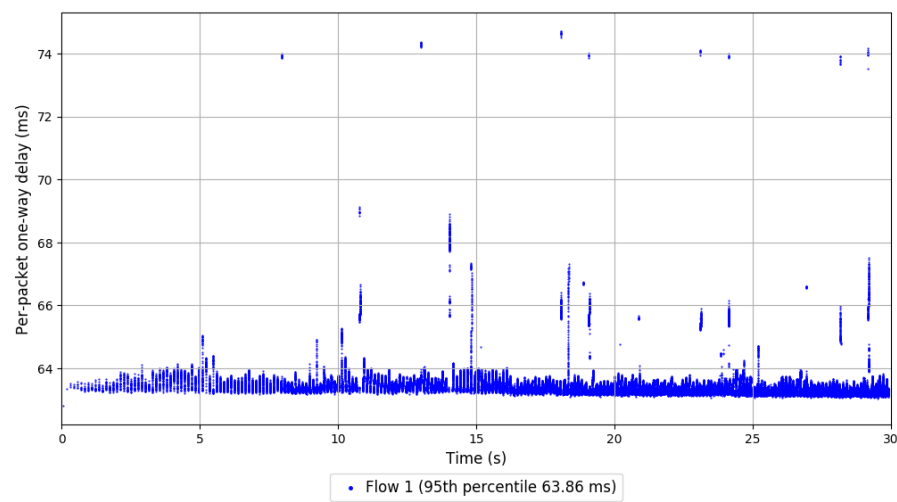
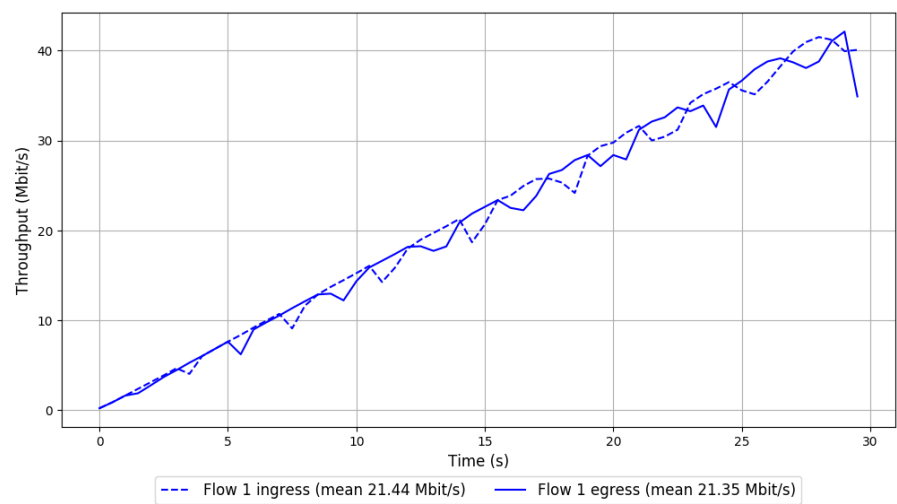
-- Flow 1:

Average throughput: 21.35 Mbit/s

95th percentile per-packet one-way delay: 63.859 ms

Loss rate: 0.86%

Run 2: Report of LEDBAT — Data Link

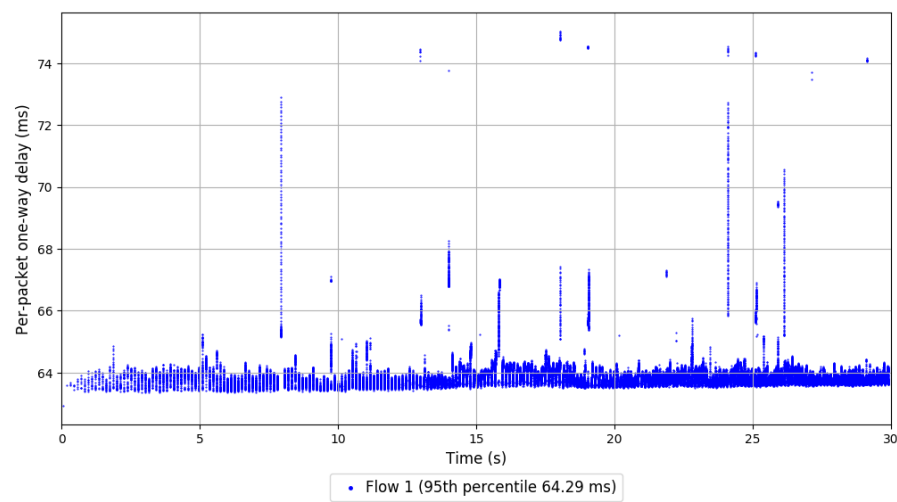
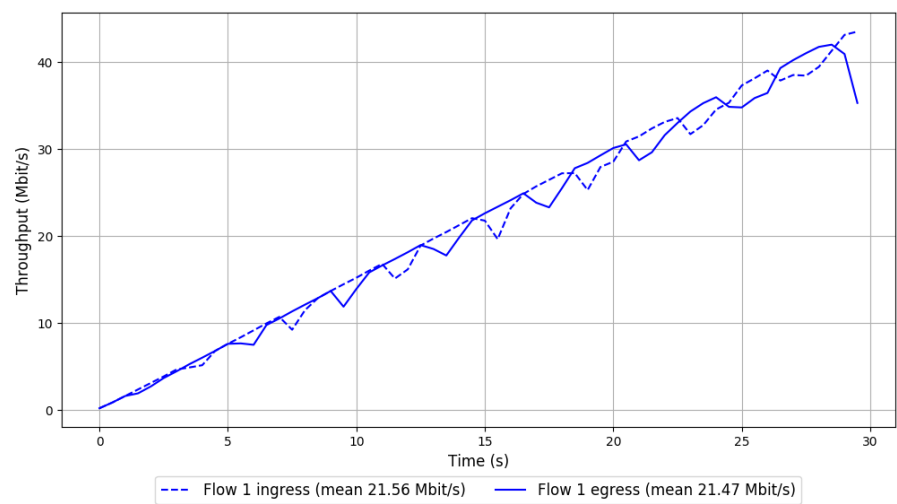


Run 3: Statistics of LEDBAT

Start at: 2018-03-14 21:47:34
End at: 2018-03-14 21:48:04
Local clock offset: -11.048 ms
Remote clock offset: -0.085 ms

Below is generated by plot.py at 2018-03-15 04:47:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 21.47 Mbit/s
95th percentile per-packet one-way delay: 64.286 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 21.47 Mbit/s
95th percentile per-packet one-way delay: 64.286 ms
Loss rate: 0.86%

Run 3: Report of LEDBAT — Data Link

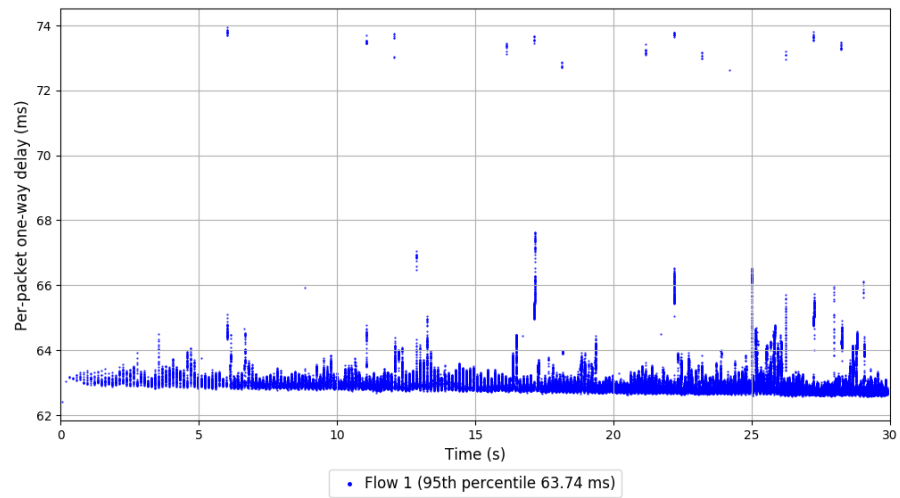
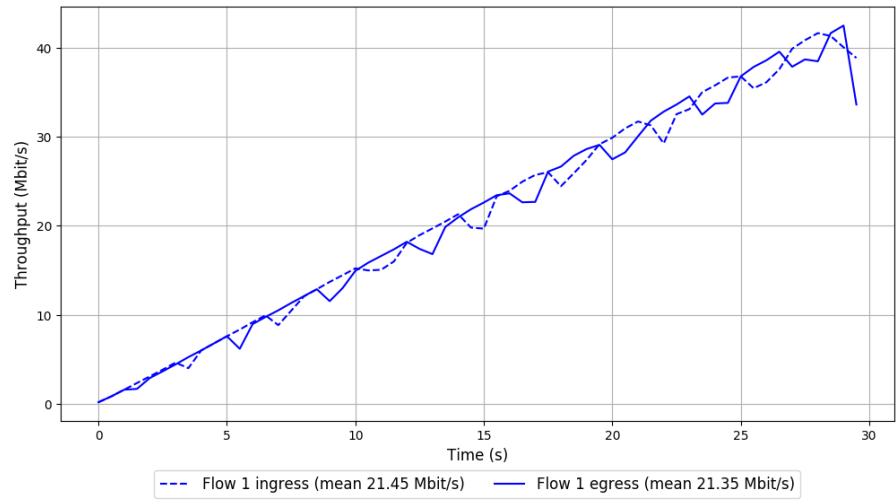


Run 4: Statistics of LEDBAT

Start at: 2018-03-14 22:10:57
End at: 2018-03-14 22:11:27
Local clock offset: 1.957 ms
Remote clock offset: -3.088 ms

Below is generated by plot.py at 2018-03-15 04:47:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 21.35 Mbit/s
95th percentile per-packet one-way delay: 63.736 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 21.35 Mbit/s
95th percentile per-packet one-way delay: 63.736 ms
Loss rate: 0.86%

Run 4: Report of LEDBAT — Data Link

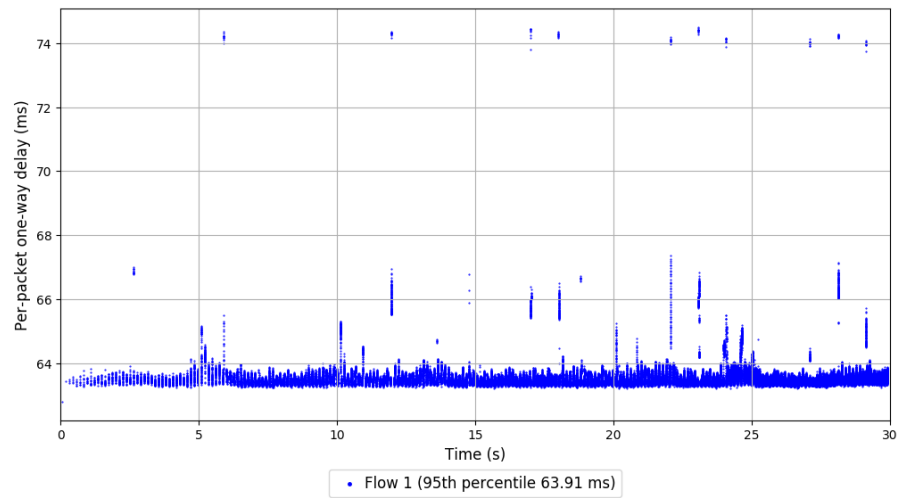
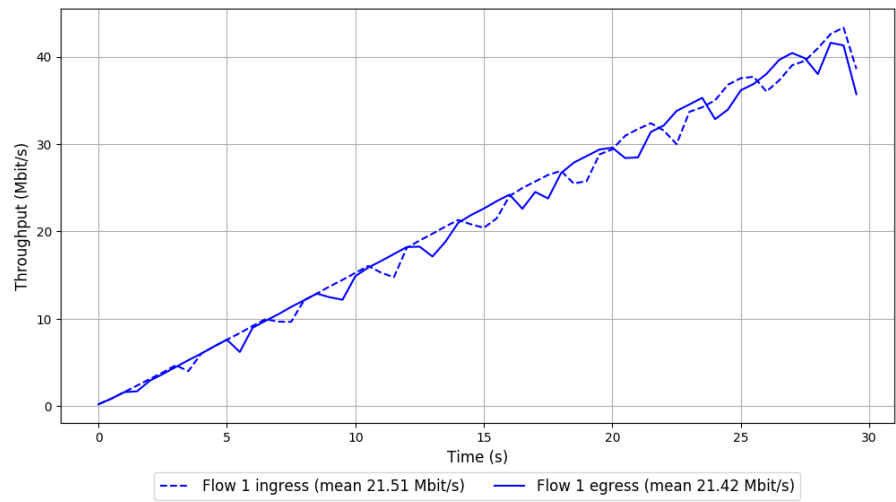


Run 5: Statistics of LEDBAT

Start at: 2018-03-14 22:34:17
End at: 2018-03-14 22:34:47
Local clock offset: 0.102 ms
Remote clock offset: -8.883 ms

Below is generated by plot.py at 2018-03-15 04:47:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 21.42 Mbit/s
95th percentile per-packet one-way delay: 63.907 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 21.42 Mbit/s
95th percentile per-packet one-way delay: 63.907 ms
Loss rate: 0.86%

Run 5: Report of LEDBAT — Data Link

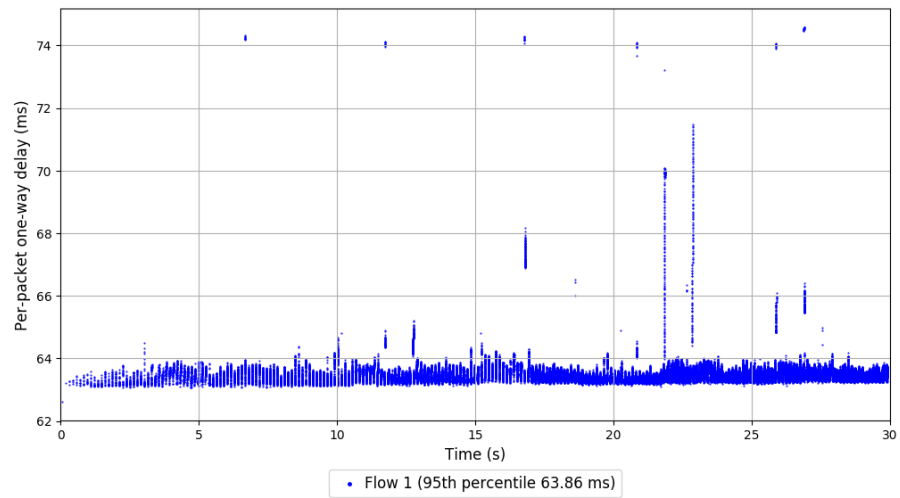
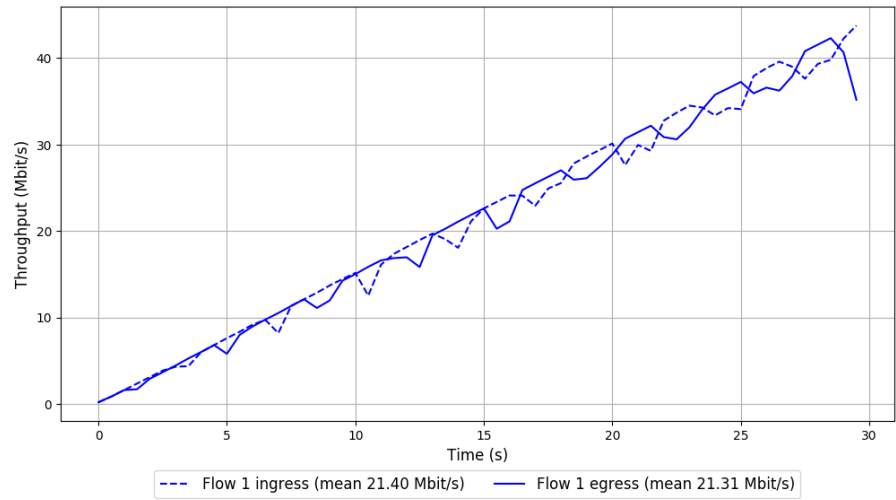


Run 6: Statistics of LEDBAT

Start at: 2018-03-14 22:57:35
End at: 2018-03-14 22:58:05
Local clock offset: -3.745 ms
Remote clock offset: -0.608 ms

Below is generated by plot.py at 2018-03-15 04:47:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 21.31 Mbit/s
95th percentile per-packet one-way delay: 63.863 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 21.31 Mbit/s
95th percentile per-packet one-way delay: 63.863 ms
Loss rate: 0.86%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-03-14 23:20:53

End at: 2018-03-14 23:21:23

Local clock offset: 2.384 ms

Remote clock offset: 0.332 ms

Below is generated by plot.py at 2018-03-15 04:47:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.47 Mbit/s

95th percentile per-packet one-way delay: 63.564 ms

Loss rate: 0.85%

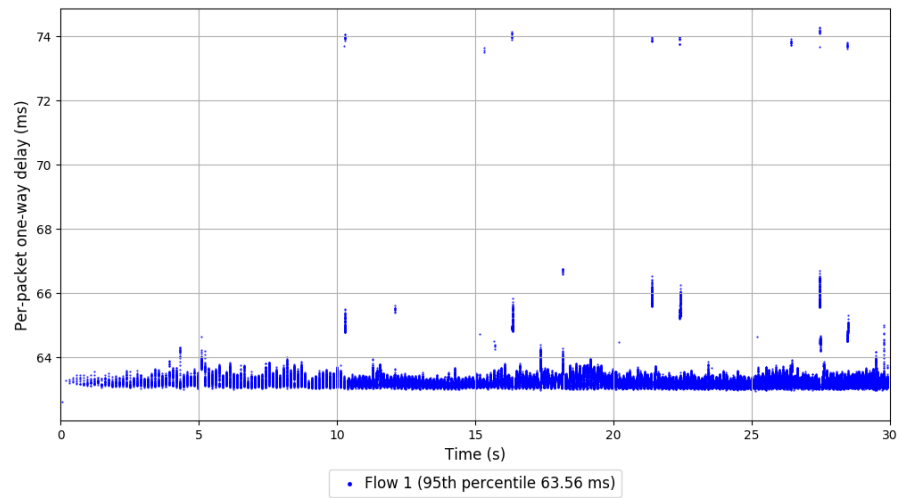
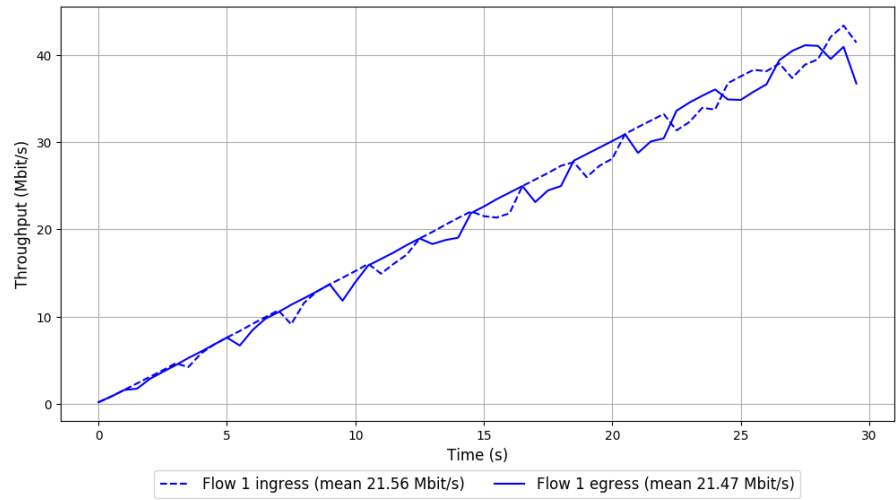
-- Flow 1:

Average throughput: 21.47 Mbit/s

95th percentile per-packet one-way delay: 63.564 ms

Loss rate: 0.85%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-03-14 23:44:10

End at: 2018-03-14 23:44:40

Local clock offset: 4.45 ms

Remote clock offset: 0.287 ms

Below is generated by plot.py at 2018-03-15 04:47:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.31 Mbit/s

95th percentile per-packet one-way delay: 64.292 ms

Loss rate: 0.86%

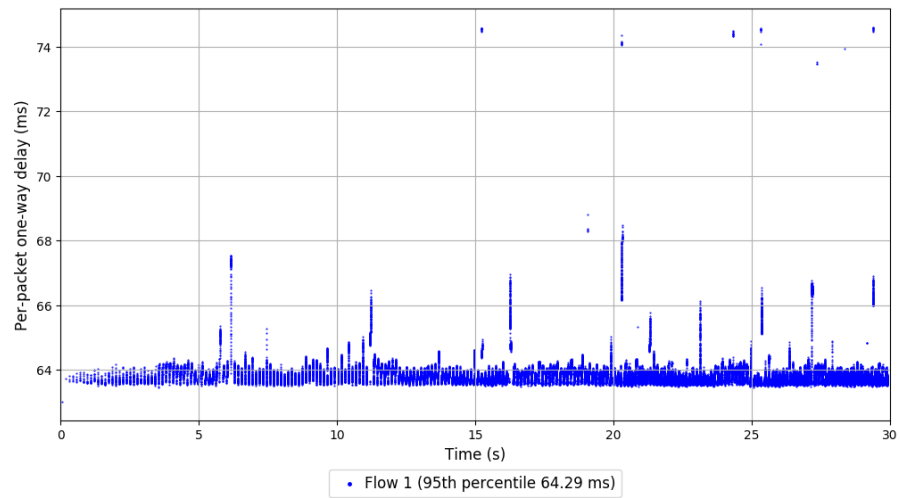
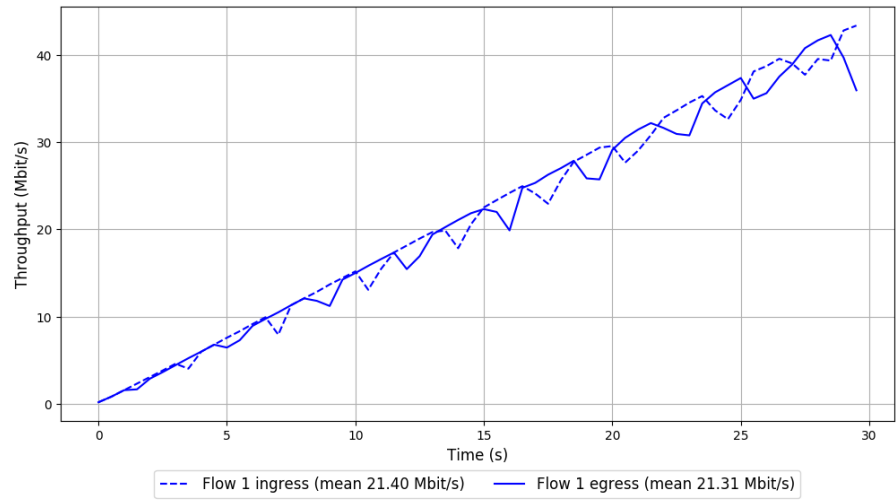
-- Flow 1:

Average throughput: 21.31 Mbit/s

95th percentile per-packet one-way delay: 64.292 ms

Loss rate: 0.86%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-03-15 00:07:29

End at: 2018-03-15 00:07:59

Local clock offset: 2.161 ms

Remote clock offset: 0.204 ms

Below is generated by plot.py at 2018-03-15 04:47:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.10 Mbit/s

95th percentile per-packet one-way delay: 62.049 ms

Loss rate: 0.86%

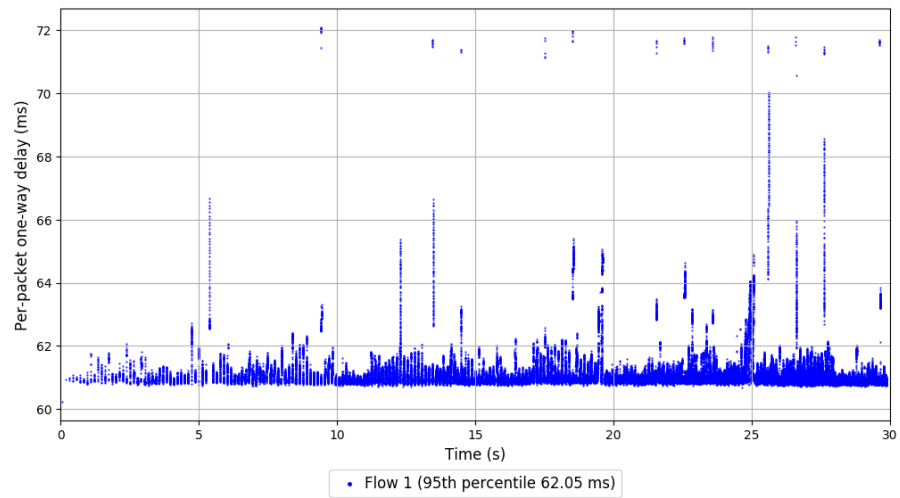
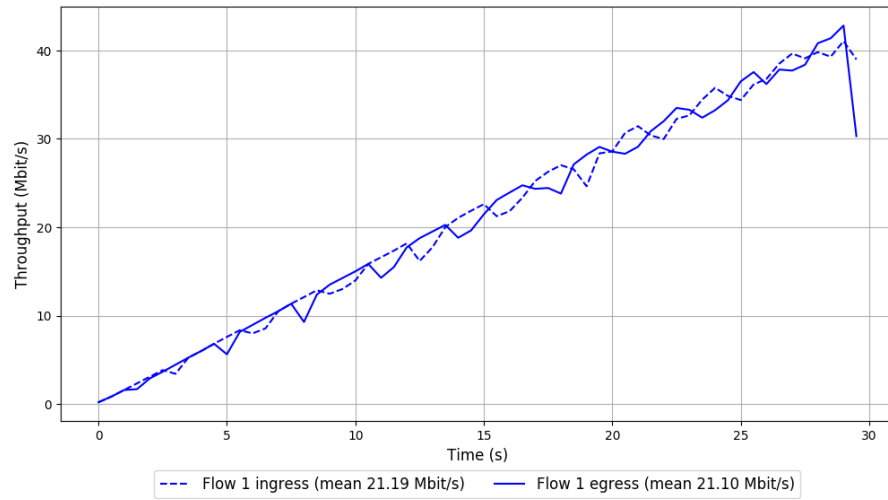
-- Flow 1:

Average throughput: 21.10 Mbit/s

95th percentile per-packet one-way delay: 62.049 ms

Loss rate: 0.86%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-03-15 00:31:32

End at: 2018-03-15 00:32:02

Local clock offset: 6.107 ms

Remote clock offset: 7.658 ms

Below is generated by plot.py at 2018-03-15 04:47:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.22 Mbit/s

95th percentile per-packet one-way delay: 64.752 ms

Loss rate: 0.86%

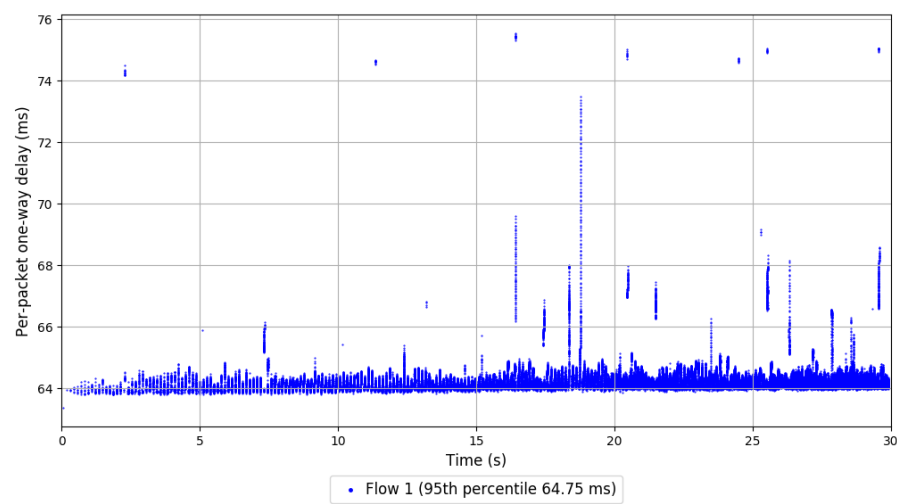
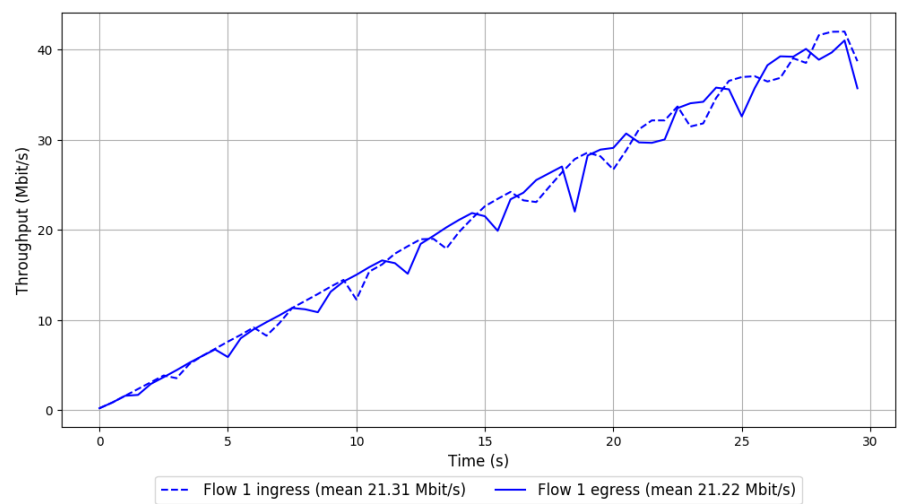
-- Flow 1:

Average throughput: 21.22 Mbit/s

95th percentile per-packet one-way delay: 64.752 ms

Loss rate: 0.86%

Run 10: Report of LEDBAT — Data Link

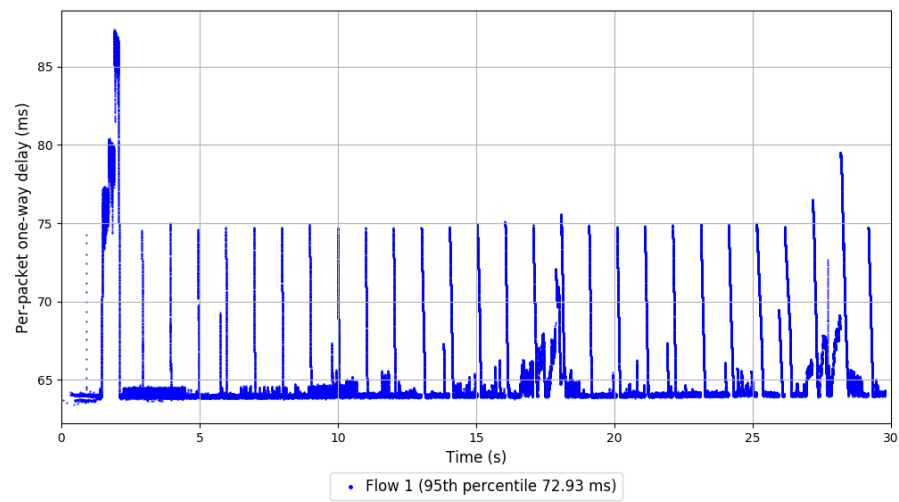
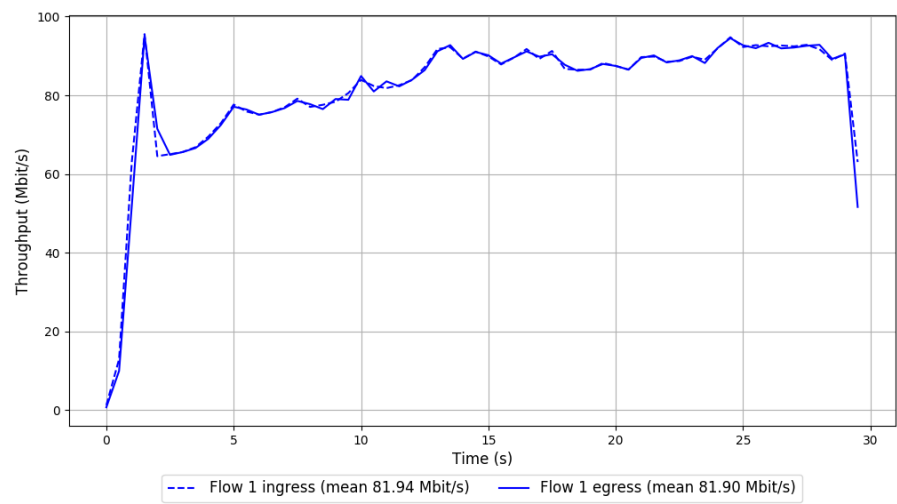


```
Run 1: Statistics of PCC

Start at: 2018-03-14 21:05:09
End at: 2018-03-14 21:05:39
Local clock offset: -4.129 ms
Remote clock offset: -2.685 ms

# Below is generated by plot.py at 2018-03-15 04:48:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.90 Mbit/s
95th percentile per-packet one-way delay: 72.931 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 81.90 Mbit/s
95th percentile per-packet one-way delay: 72.931 ms
Loss rate: 0.47%
```

Run 1: Report of PCC — Data Link

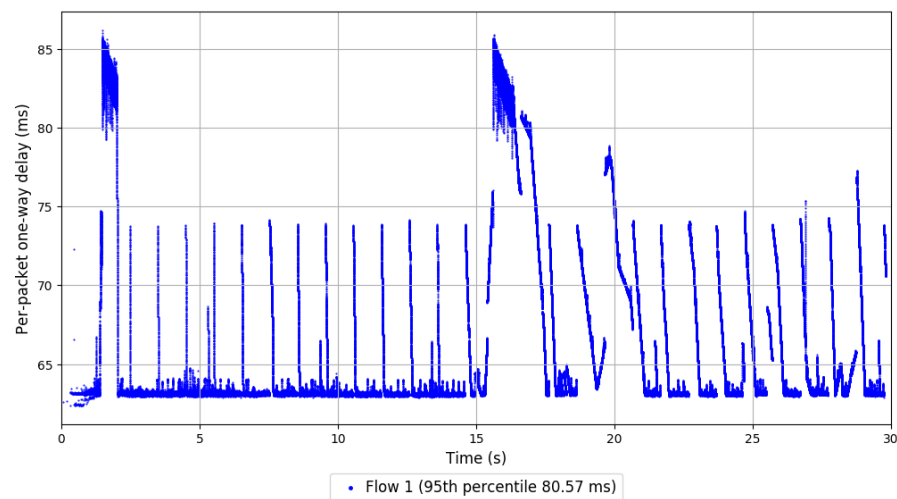
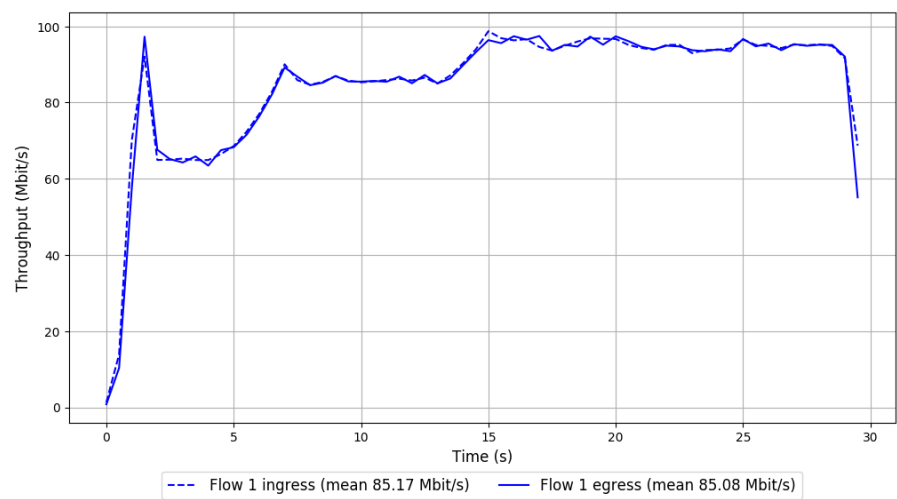


Run 2: Statistics of PCC

Start at: 2018-03-14 21:28:43
End at: 2018-03-14 21:29:13
Local clock offset: -5.487 ms
Remote clock offset: -4.534 ms

Below is generated by plot.py at 2018-03-15 04:48:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.08 Mbit/s
95th percentile per-packet one-way delay: 80.570 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 85.08 Mbit/s
95th percentile per-packet one-way delay: 80.570 ms
Loss rate: 0.54%

Run 2: Report of PCC — Data Link

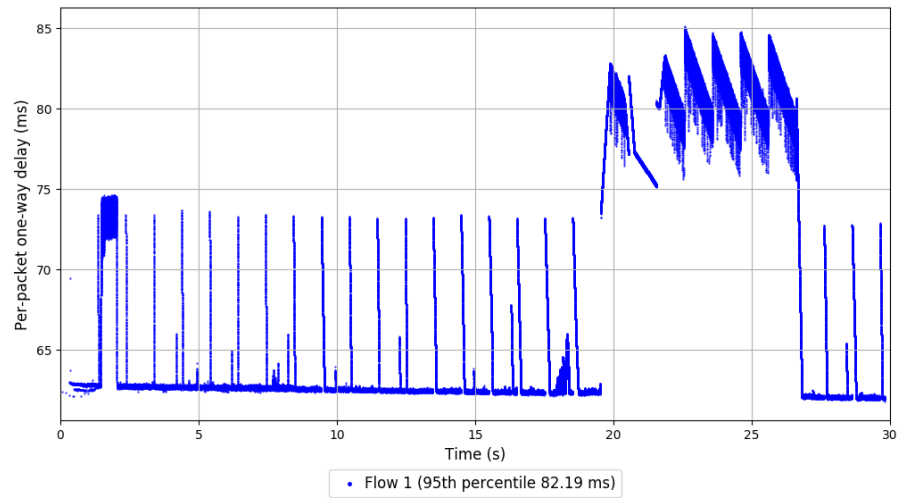
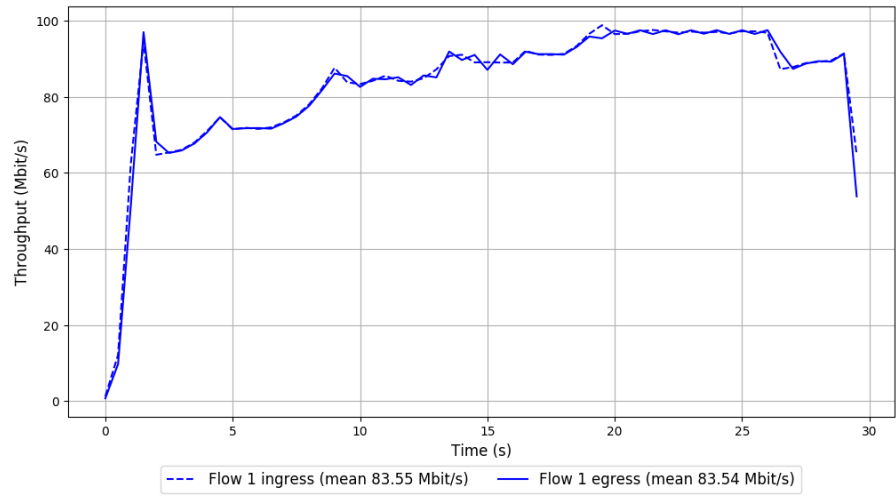


Run 3: Statistics of PCC

Start at: 2018-03-14 21:52:26
End at: 2018-03-14 21:52:56
Local clock offset: -10.377 ms
Remote clock offset: 0.422 ms

Below is generated by plot.py at 2018-03-15 04:48:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 83.54 Mbit/s
95th percentile per-packet one-way delay: 82.195 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 83.54 Mbit/s
95th percentile per-packet one-way delay: 82.195 ms
Loss rate: 0.45%

Run 3: Report of PCC — Data Link

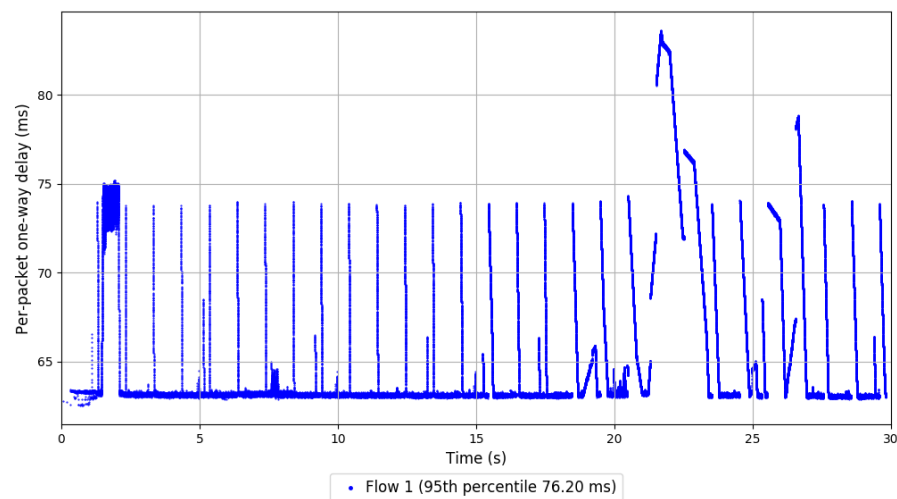
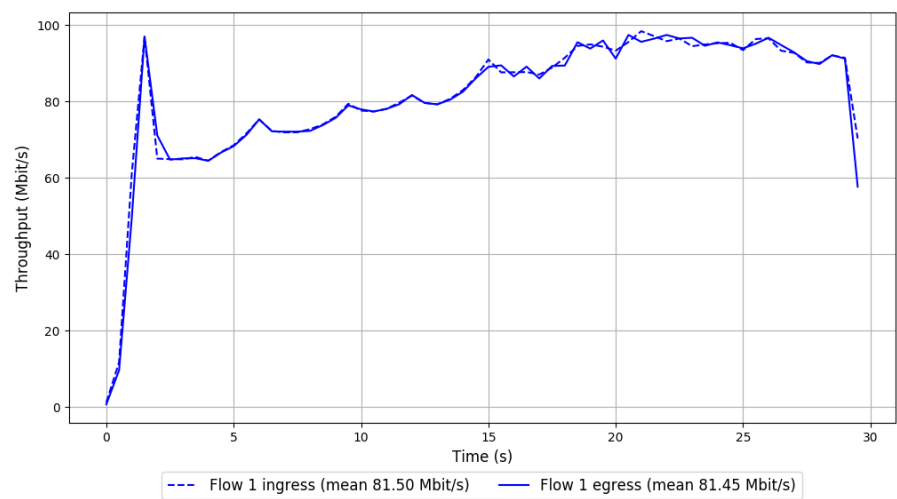


Run 4: Statistics of PCC

Start at: 2018-03-14 22:15:51
End at: 2018-03-14 22:16:21
Local clock offset: 1.735 ms
Remote clock offset: -5.369 ms

Below is generated by plot.py at 2018-03-15 04:48:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 81.45 Mbit/s
95th percentile per-packet one-way delay: 76.201 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 81.45 Mbit/s
95th percentile per-packet one-way delay: 76.201 ms
Loss rate: 0.50%

Run 4: Report of PCC — Data Link

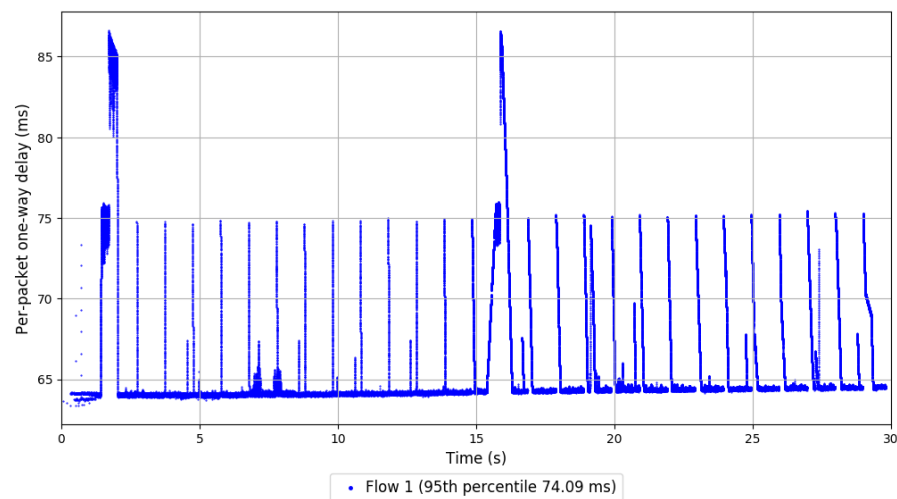
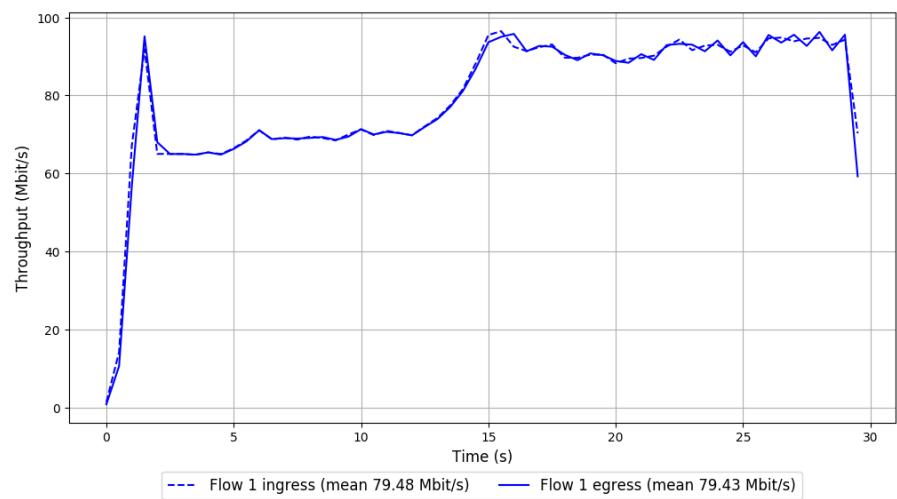


Run 5: Statistics of PCC

Start at: 2018-03-14 22:39:10
End at: 2018-03-14 22:39:40
Local clock offset: -0.15 ms
Remote clock offset: -9.336 ms

Below is generated by plot.py at 2018-03-15 04:48:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.43 Mbit/s
95th percentile per-packet one-way delay: 74.087 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 79.43 Mbit/s
95th percentile per-packet one-way delay: 74.087 ms
Loss rate: 0.50%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-03-14 23:02:28

End at: 2018-03-14 23:02:58

Local clock offset: -1.464 ms

Remote clock offset: 0.362 ms

Below is generated by plot.py at 2018-03-15 04:48:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.63 Mbit/s

95th percentile per-packet one-way delay: 93.519 ms

Loss rate: 0.43%

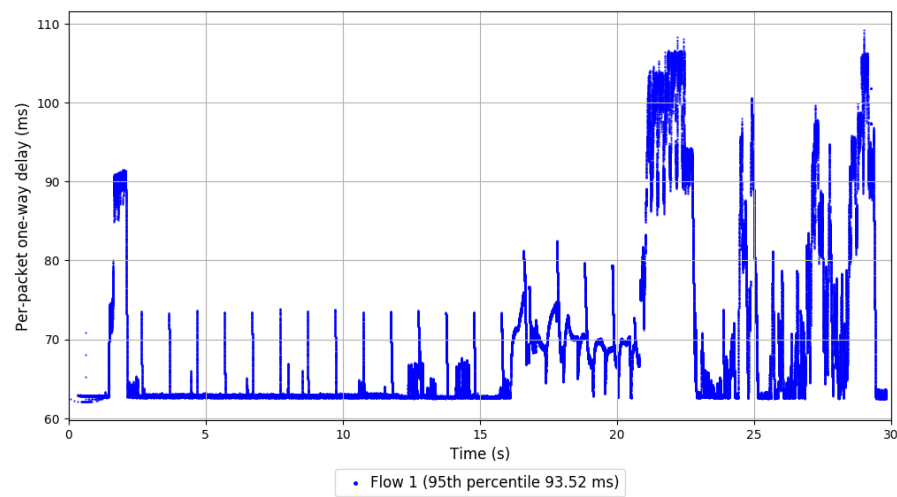
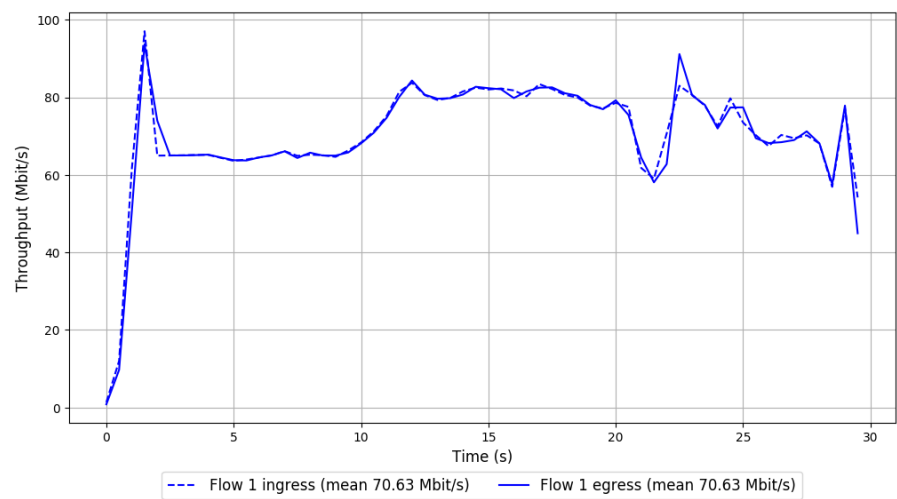
-- Flow 1:

Average throughput: 70.63 Mbit/s

95th percentile per-packet one-way delay: 93.519 ms

Loss rate: 0.43%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-03-14 23:25:46

End at: 2018-03-14 23:26:16

Local clock offset: 2.657 ms

Remote clock offset: 0.057 ms

Below is generated by plot.py at 2018-03-15 04:48:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.28 Mbit/s

95th percentile per-packet one-way delay: 73.404 ms

Loss rate: 0.49%

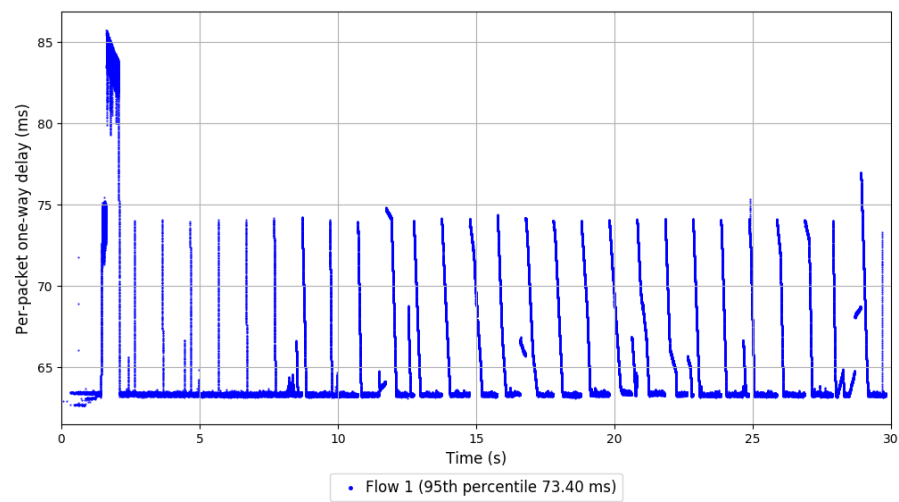
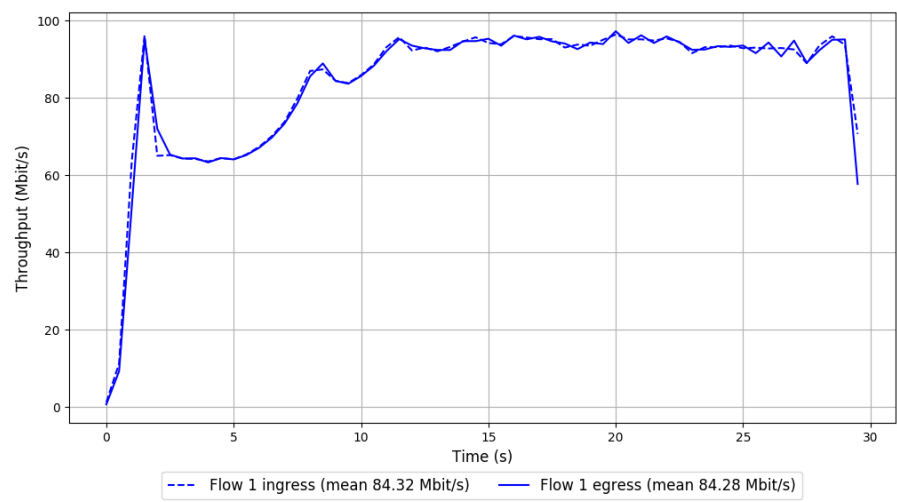
-- Flow 1:

Average throughput: 84.28 Mbit/s

95th percentile per-packet one-way delay: 73.404 ms

Loss rate: 0.49%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-03-14 23:49:03

End at: 2018-03-14 23:49:33

Local clock offset: 4.524 ms

Remote clock offset: 0.246 ms

Below is generated by plot.py at 2018-03-15 04:48:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.98 Mbit/s

95th percentile per-packet one-way delay: 83.521 ms

Loss rate: 0.58%

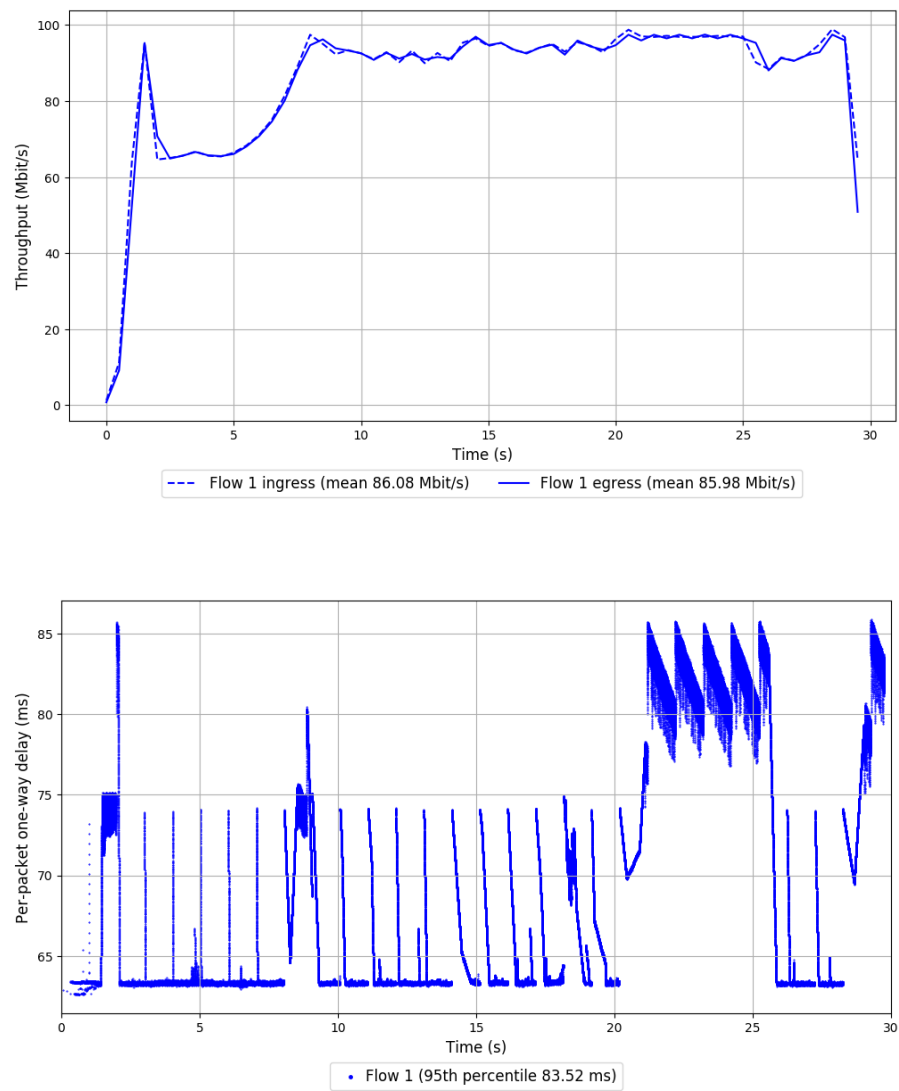
-- Flow 1:

Average throughput: 85.98 Mbit/s

95th percentile per-packet one-way delay: 83.521 ms

Loss rate: 0.58%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-03-15 00:12:20

End at: 2018-03-15 00:12:50

Local clock offset: 5.572 ms

Remote clock offset: 0.244 ms

Below is generated by plot.py at 2018-03-15 04:49:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.26 Mbit/s

95th percentile per-packet one-way delay: 72.932 ms

Loss rate: 0.56%

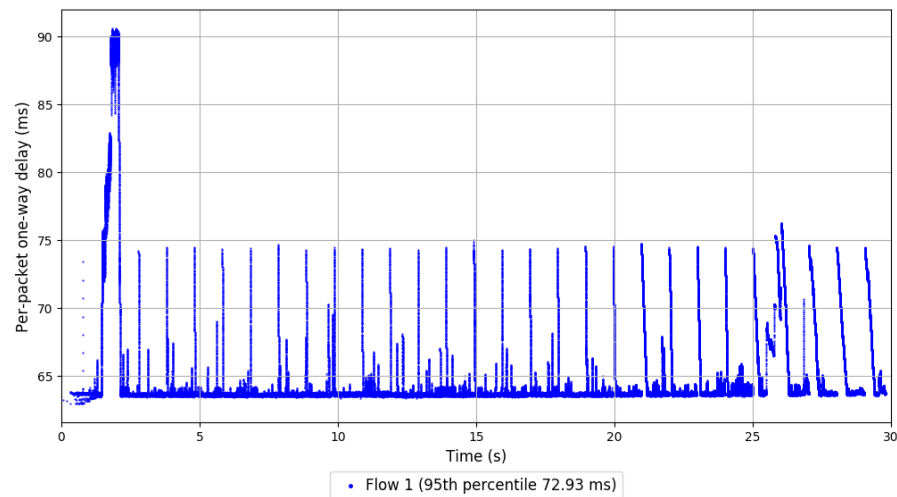
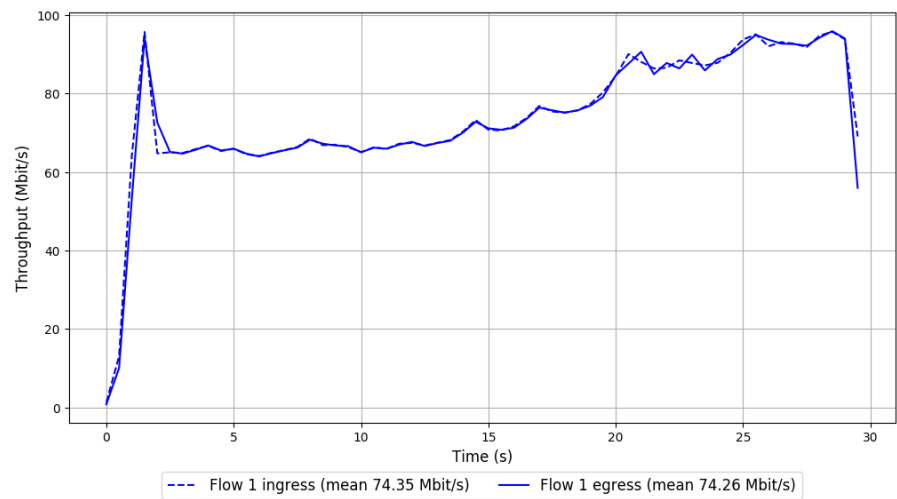
-- Flow 1:

Average throughput: 74.26 Mbit/s

95th percentile per-packet one-way delay: 72.932 ms

Loss rate: 0.56%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-03-15 00:36:25

End at: 2018-03-15 00:36:55

Local clock offset: 5.784 ms

Remote clock offset: 9.588 ms

Below is generated by plot.py at 2018-03-15 04:49:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.73 Mbit/s

95th percentile per-packet one-way delay: 73.365 ms

Loss rate: 0.47%

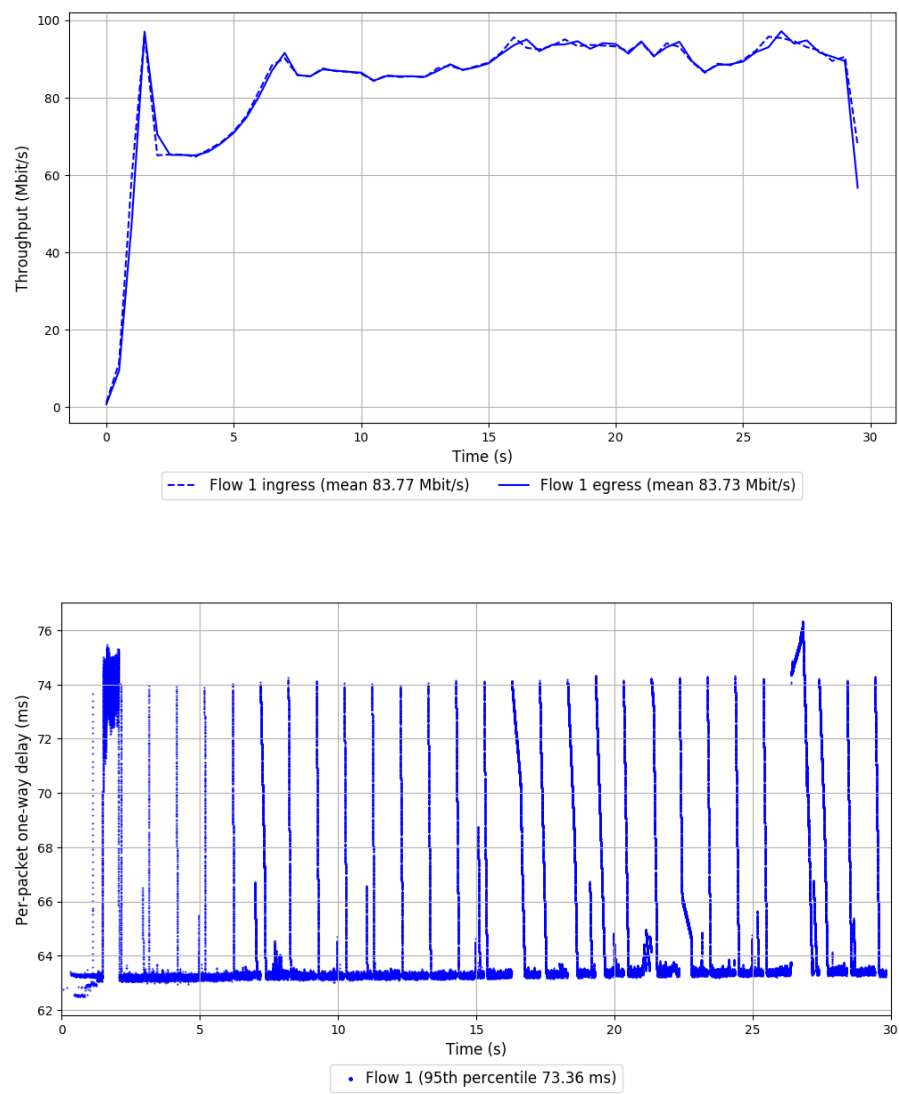
-- Flow 1:

Average throughput: 83.73 Mbit/s

95th percentile per-packet one-way delay: 73.365 ms

Loss rate: 0.47%

Run 10: Report of PCC — Data Link

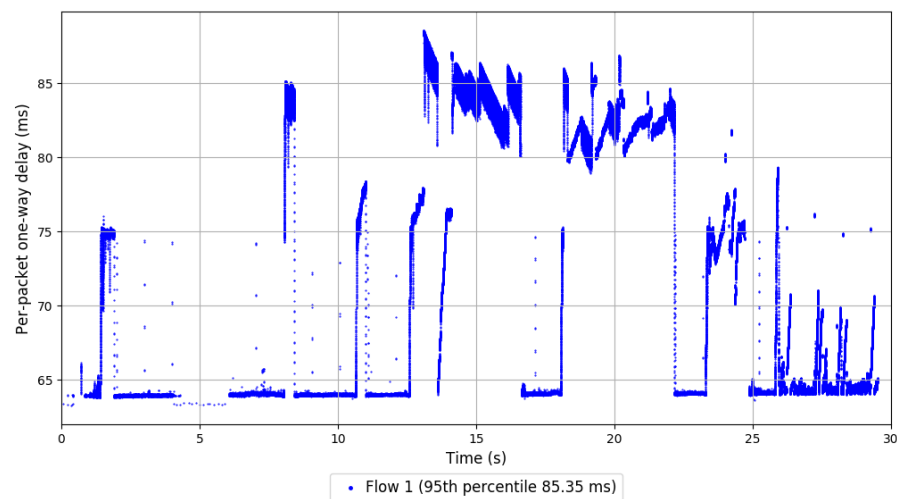
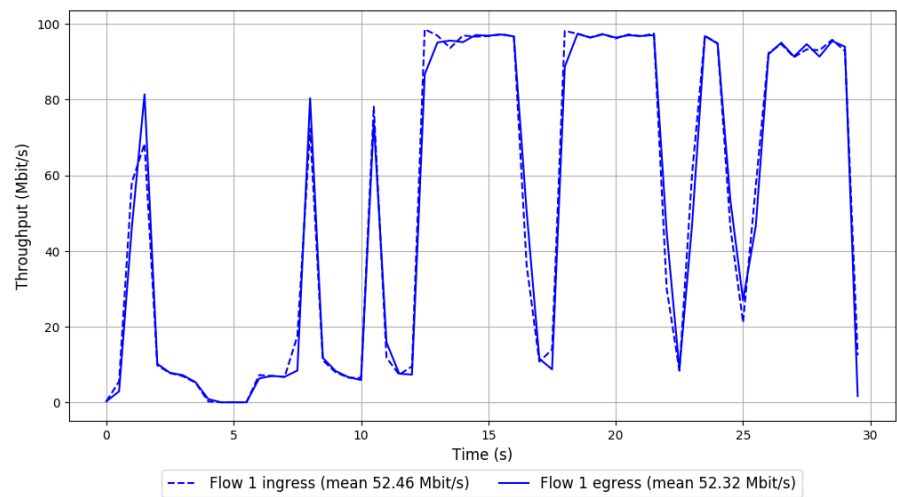


Run 1: Statistics of QUIC Cubic

Start at: 2018-03-14 21:10:01
End at: 2018-03-14 21:10:31
Local clock offset: -6.632 ms
Remote clock offset: -3.371 ms

Below is generated by plot.py at 2018-03-15 04:49:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 52.32 Mbit/s
95th percentile per-packet one-way delay: 85.349 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 52.32 Mbit/s
95th percentile per-packet one-way delay: 85.349 ms
Loss rate: 0.71%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-03-14 21:33:54

End at: 2018-03-14 21:34:24

Local clock offset: -6.035 ms

Remote clock offset: -3.345 ms

Below is generated by plot.py at 2018-03-15 04:49:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.51 Mbit/s

95th percentile per-packet one-way delay: 83.978 ms

Loss rate: 0.71%

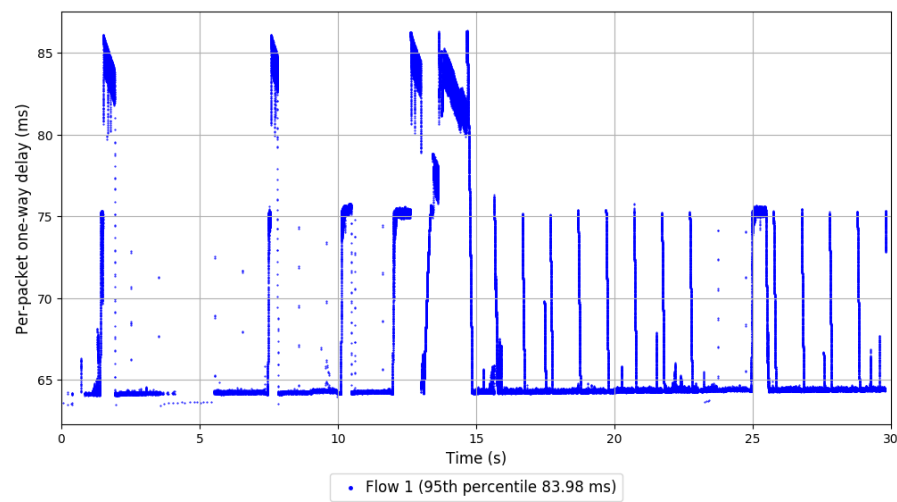
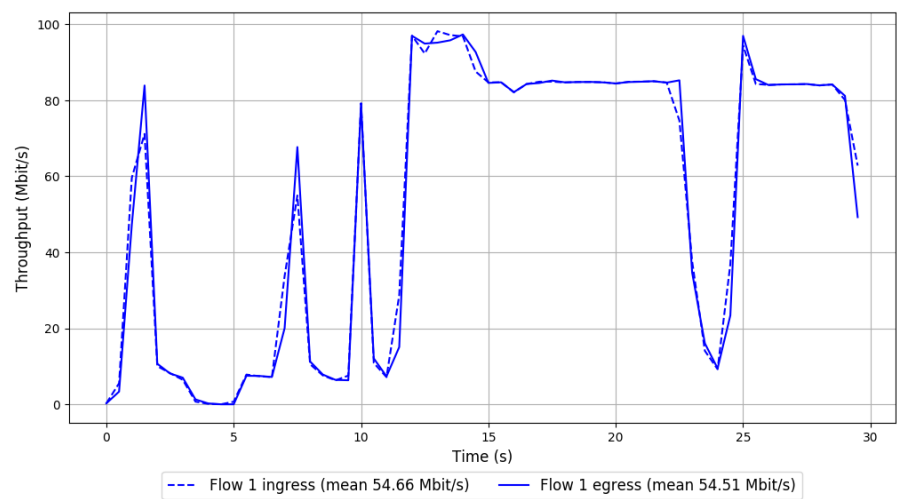
-- Flow 1:

Average throughput: 54.51 Mbit/s

95th percentile per-packet one-way delay: 83.978 ms

Loss rate: 0.71%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-03-14 21:57:19

End at: 2018-03-14 21:57:49

Local clock offset: -3.561 ms

Remote clock offset: 0.816 ms

Below is generated by plot.py at 2018-03-15 04:49:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.16 Mbit/s

95th percentile per-packet one-way delay: 82.343 ms

Loss rate: 0.81%

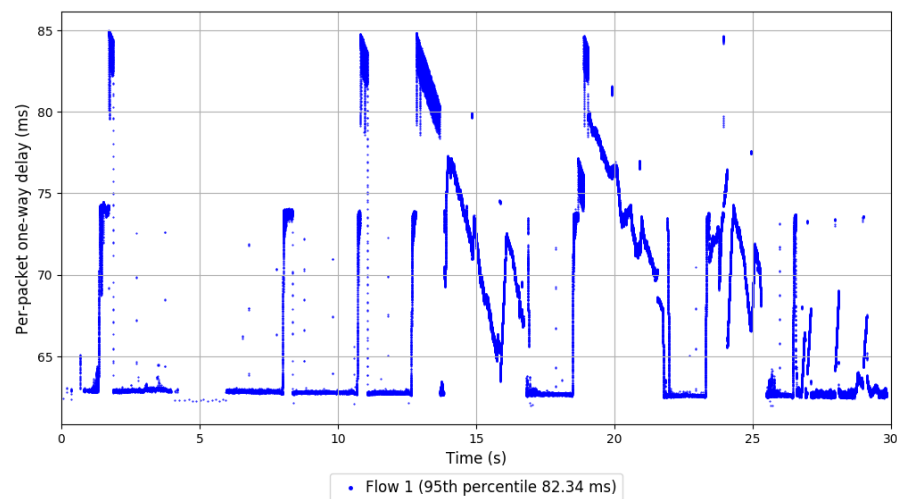
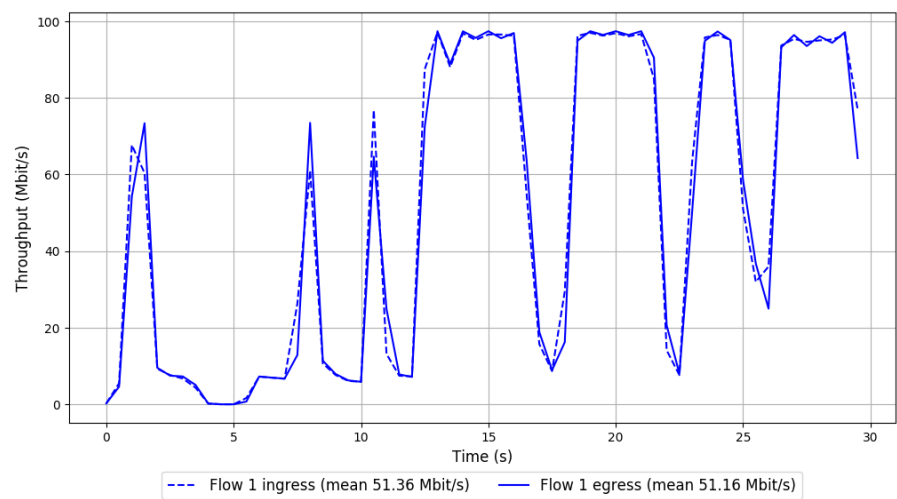
-- Flow 1:

Average throughput: 51.16 Mbit/s

95th percentile per-packet one-way delay: 82.343 ms

Loss rate: 0.81%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-03-14 22:20:44

End at: 2018-03-14 22:21:14

Local clock offset: 1.543 ms

Remote clock offset: -6.74 ms

Below is generated by plot.py at 2018-03-15 04:49:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.45 Mbit/s

95th percentile per-packet one-way delay: 83.889 ms

Loss rate: 0.69%

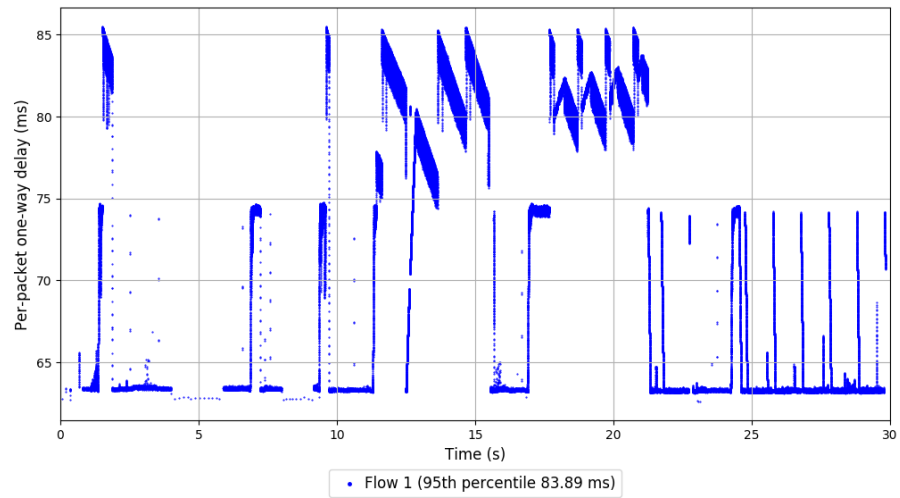
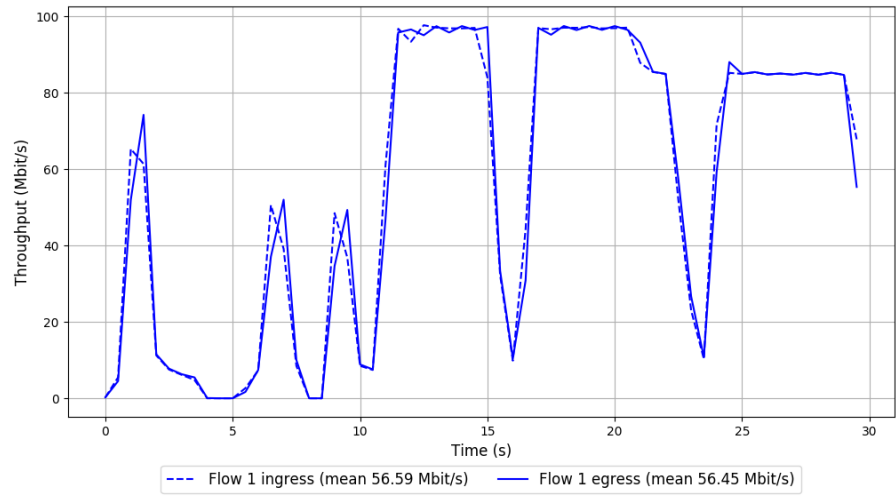
-- Flow 1:

Average throughput: 56.45 Mbit/s

95th percentile per-packet one-way delay: 83.889 ms

Loss rate: 0.69%

Run 4: Report of QUIC Cubic — Data Link

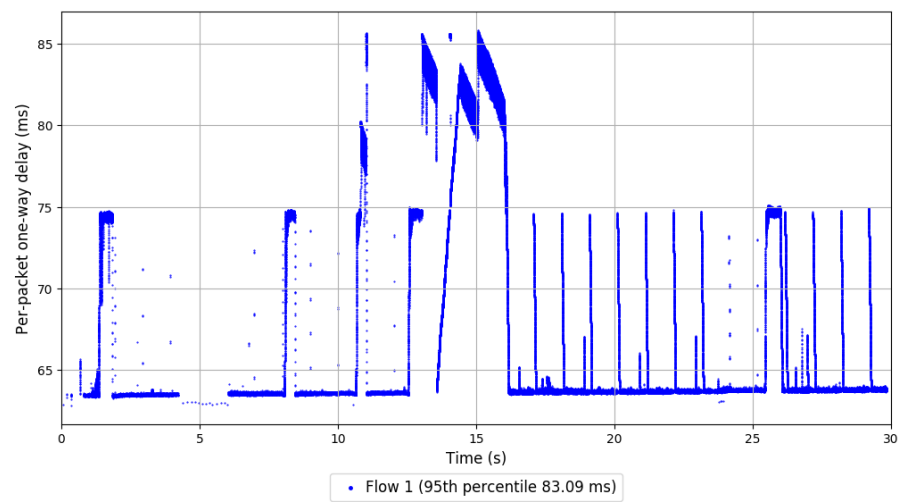
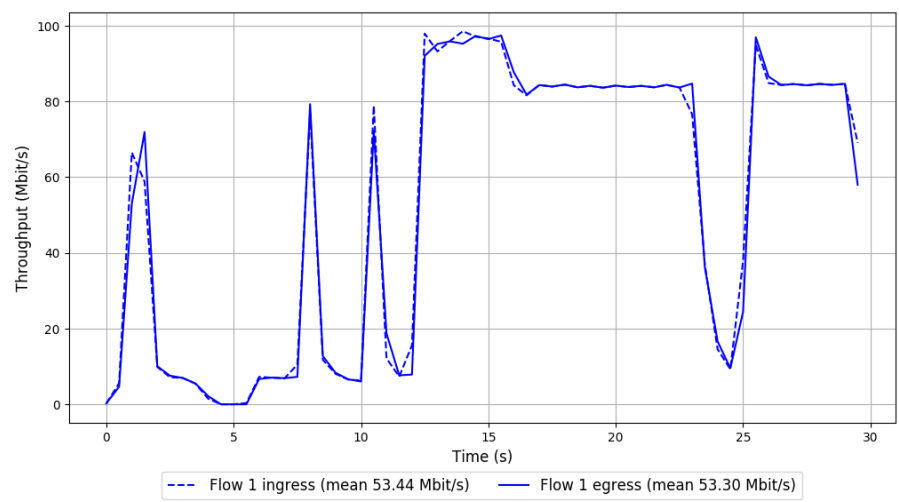


Run 5: Statistics of QUIC Cubic

Start at: 2018-03-14 22:44:02
End at: 2018-03-14 22:44:33
Local clock offset: -1.217 ms
Remote clock offset: -5.485 ms

Below is generated by plot.py at 2018-03-15 04:49:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 53.30 Mbit/s
95th percentile per-packet one-way delay: 83.090 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 53.30 Mbit/s
95th percentile per-packet one-way delay: 83.090 ms
Loss rate: 0.68%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-03-14 23:07:20

End at: 2018-03-14 23:07:50

Local clock offset: 0.684 ms

Remote clock offset: 1.062 ms

Below is generated by plot.py at 2018-03-15 04:50:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.96 Mbit/s

95th percentile per-packet one-way delay: 86.045 ms

Loss rate: 0.69%

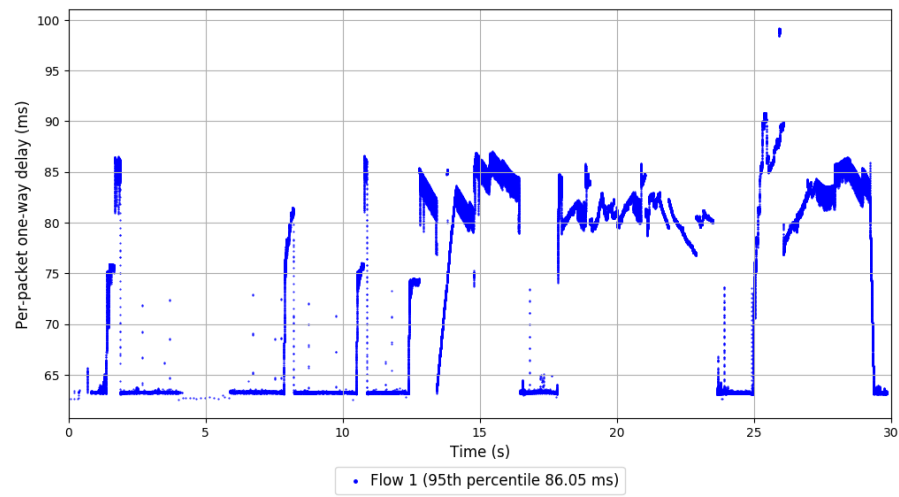
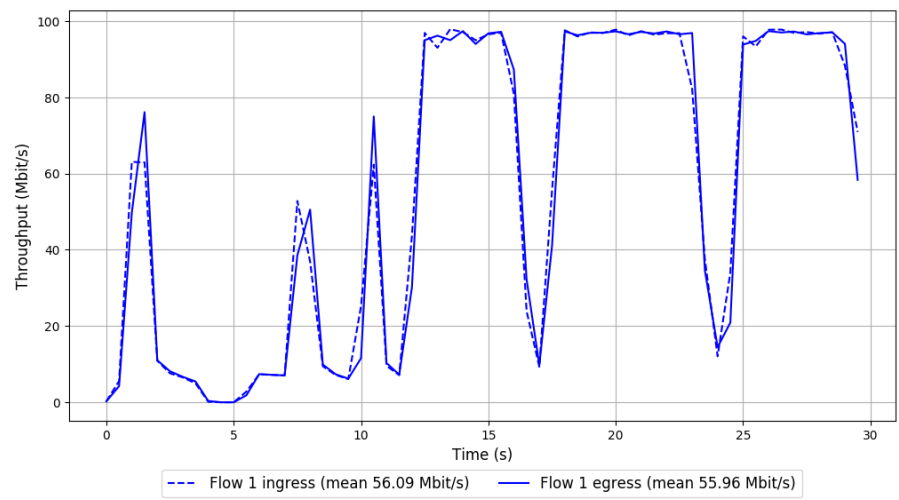
-- Flow 1:

Average throughput: 55.96 Mbit/s

95th percentile per-packet one-way delay: 86.045 ms

Loss rate: 0.69%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-03-14 23:30:38

End at: 2018-03-14 23:31:08

Local clock offset: 2.203 ms

Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-03-15 04:50:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.61 Mbit/s

95th percentile per-packet one-way delay: 74.908 ms

Loss rate: 0.66%

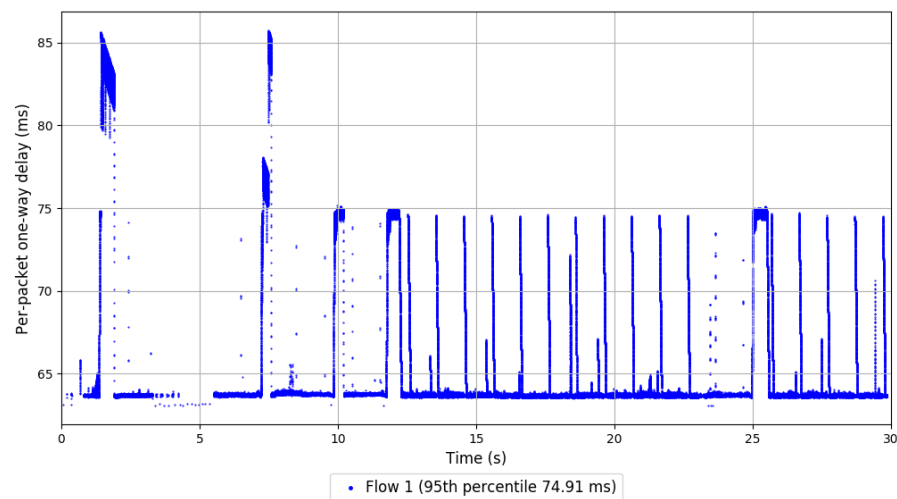
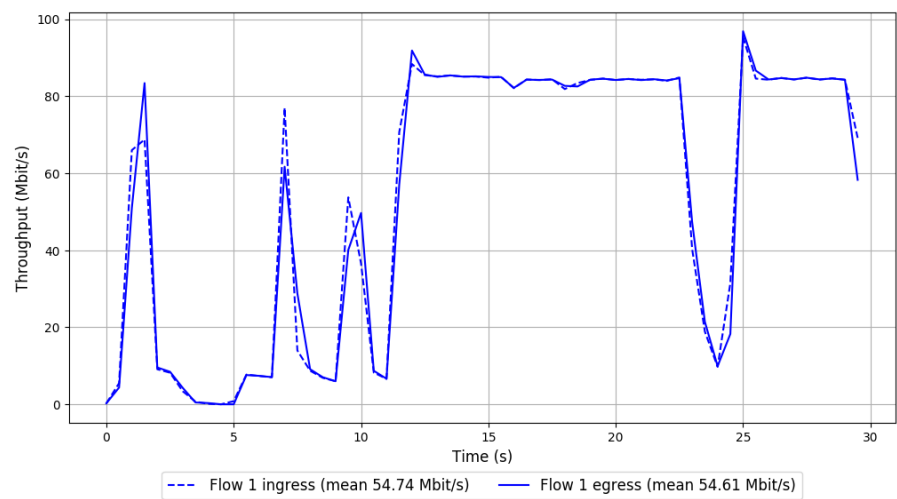
-- Flow 1:

Average throughput: 54.61 Mbit/s

95th percentile per-packet one-way delay: 74.908 ms

Loss rate: 0.66%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-03-14 23:53:56

End at: 2018-03-14 23:54:26

Local clock offset: 4.669 ms

Remote clock offset: 0.144 ms

Below is generated by plot.py at 2018-03-15 04:50:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.57 Mbit/s

95th percentile per-packet one-way delay: 85.002 ms

Loss rate: 0.76%

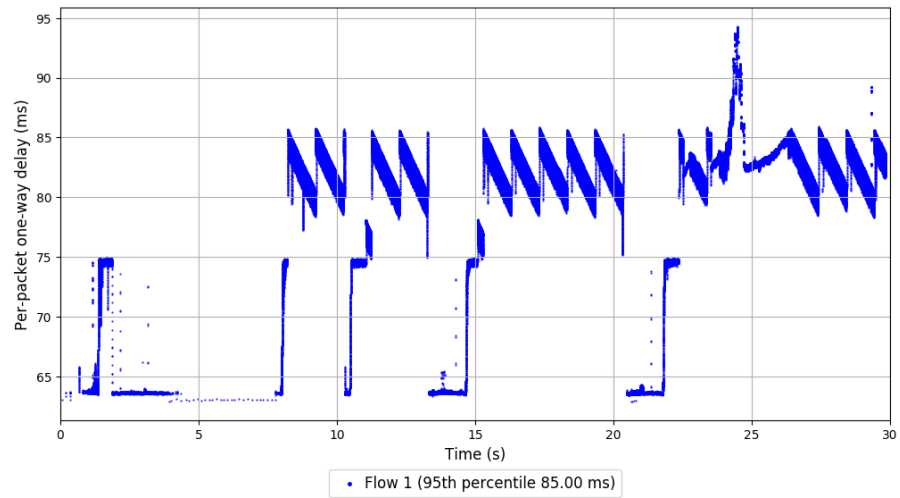
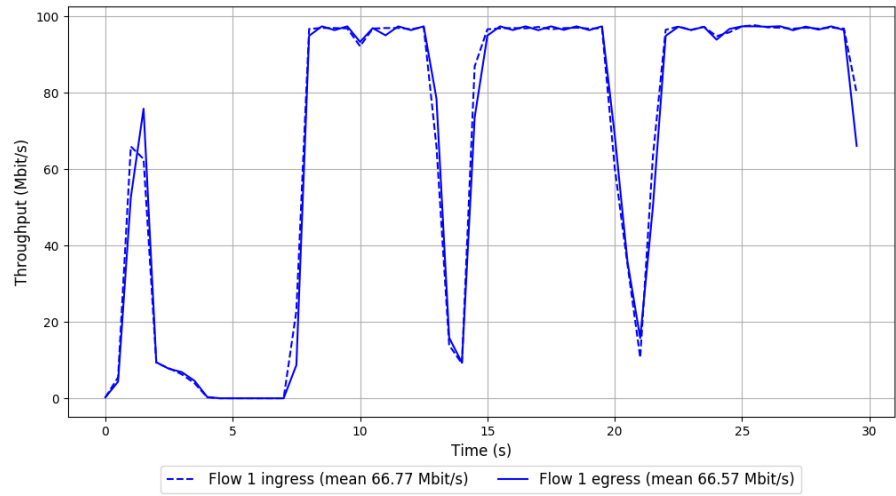
-- Flow 1:

Average throughput: 66.57 Mbit/s

95th percentile per-packet one-way delay: 85.002 ms

Loss rate: 0.76%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-03-15 00:17:12

End at: 2018-03-15 00:17:42

Local clock offset: 5.745 ms

Remote clock offset: 0.382 ms

Below is generated by plot.py at 2018-03-15 04:50:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.79 Mbit/s

95th percentile per-packet one-way delay: 74.870 ms

Loss rate: 0.73%

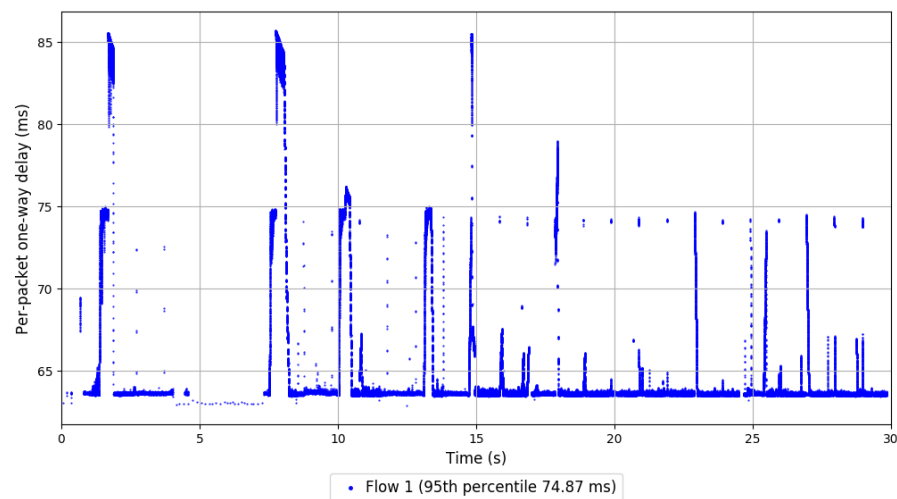
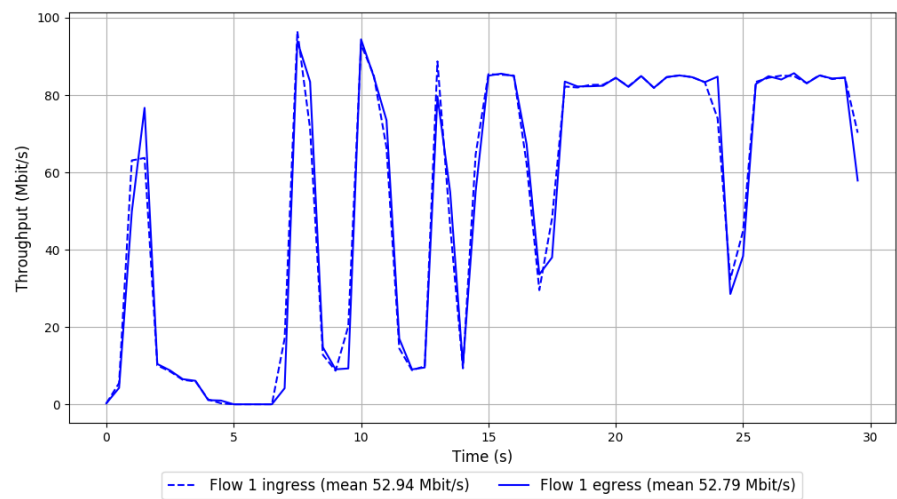
-- Flow 1:

Average throughput: 52.79 Mbit/s

95th percentile per-packet one-way delay: 74.870 ms

Loss rate: 0.73%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-03-15 00:41:18

End at: 2018-03-15 00:41:48

Local clock offset: 5.856 ms

Remote clock offset: 10.98 ms

Below is generated by plot.py at 2018-03-15 04:50:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.52 Mbit/s

95th percentile per-packet one-way delay: 75.117 ms

Loss rate: 0.78%

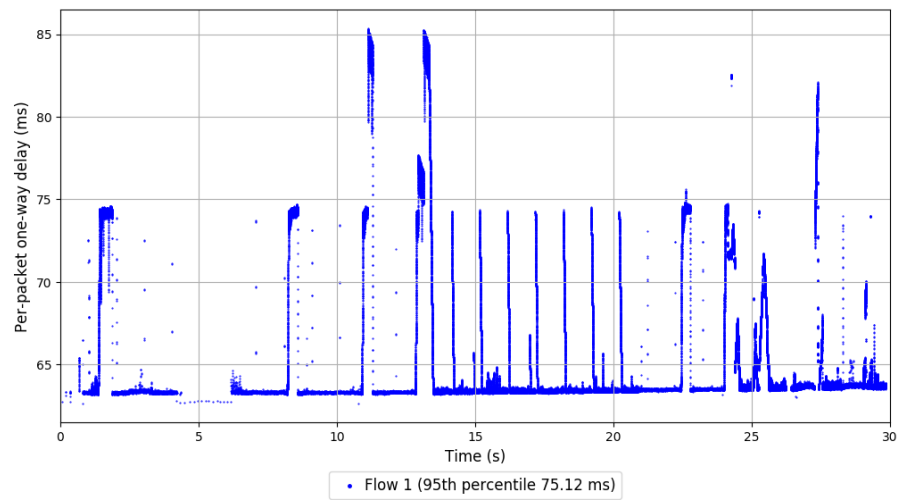
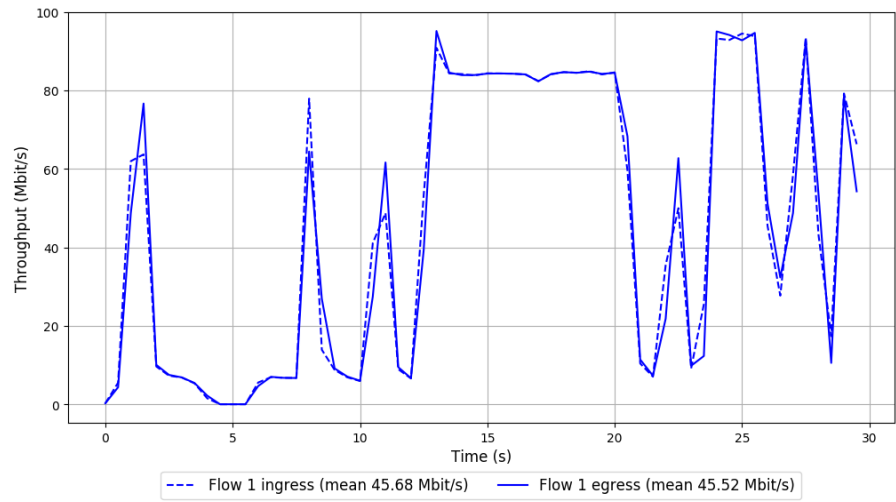
-- Flow 1:

Average throughput: 45.52 Mbit/s

95th percentile per-packet one-way delay: 75.117 ms

Loss rate: 0.78%

Run 10: Report of QUIC Cubic — Data Link

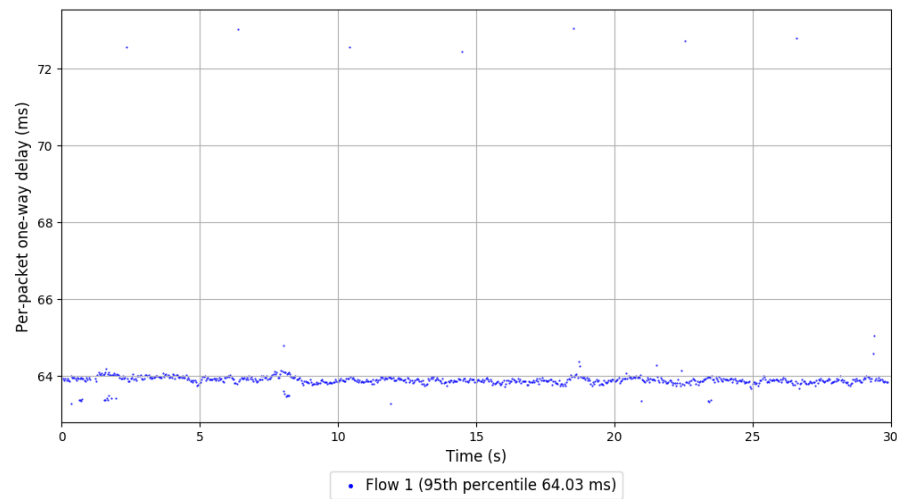
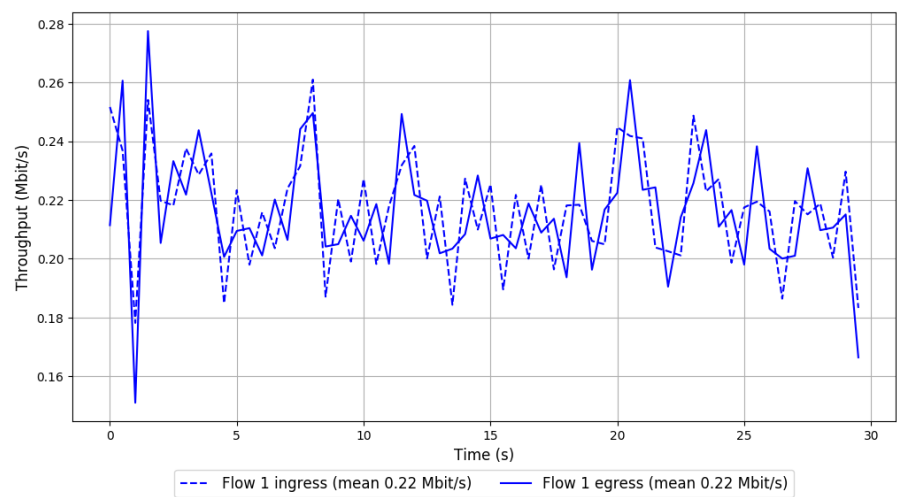


Run 1: Statistics of SCReAM

Start at: 2018-03-14 21:02:44
End at: 2018-03-14 21:03:14
Local clock offset: -3.773 ms
Remote clock offset: -2.314 ms

Below is generated by plot.py at 2018-03-15 04:50:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.033 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.033 ms
Loss rate: 0.38%

Run 1: Report of SReAM — Data Link

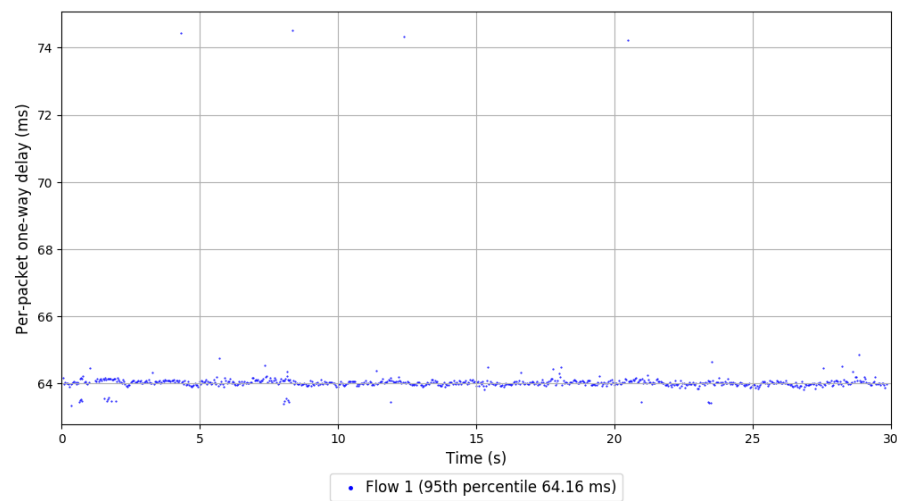
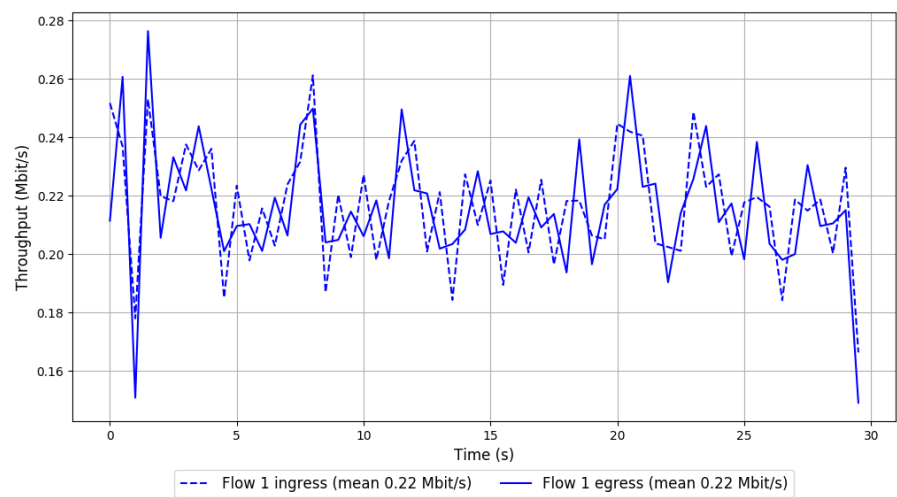


Run 2: Statistics of SCReAM

Start at: 2018-03-14 21:26:12
End at: 2018-03-14 21:26:42
Local clock offset: -5.238 ms
Remote clock offset: -4.373 ms

Below is generated by plot.py at 2018-03-15 04:50:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.160 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.160 ms
Loss rate: 0.38%

Run 2: Report of SReAM — Data Link

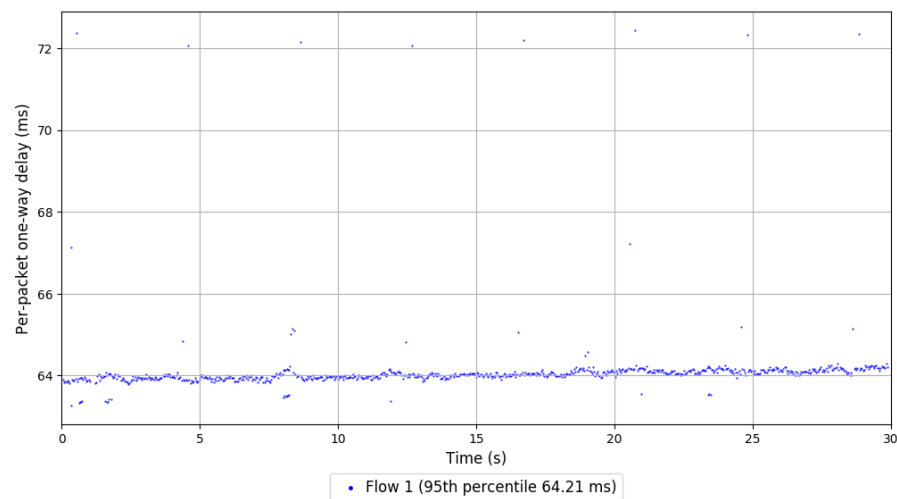
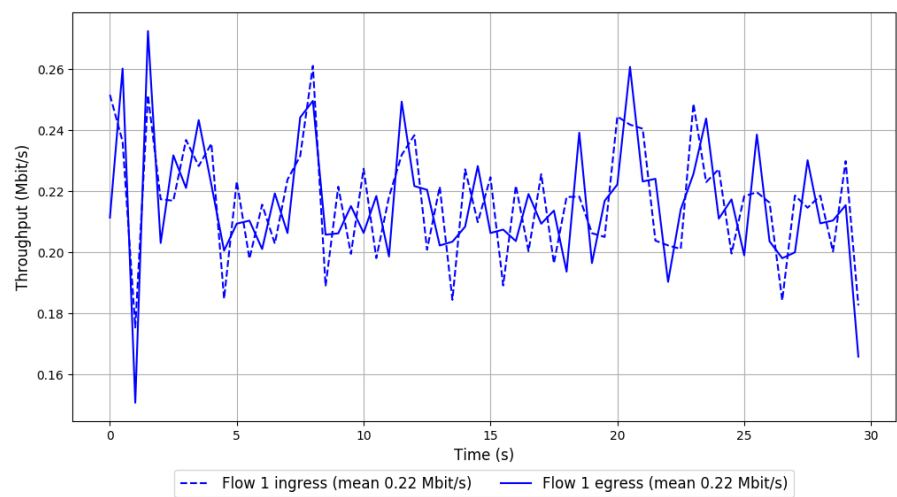


Run 3: Statistics of SCReAM

Start at: 2018-03-14 21:50:01
End at: 2018-03-14 21:50:31
Local clock offset: -12.078 ms
Remote clock offset: 0.16 ms

Below is generated by plot.py at 2018-03-15 04:50:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.211 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.211 ms
Loss rate: 0.38%

Run 3: Report of SReAM — Data Link

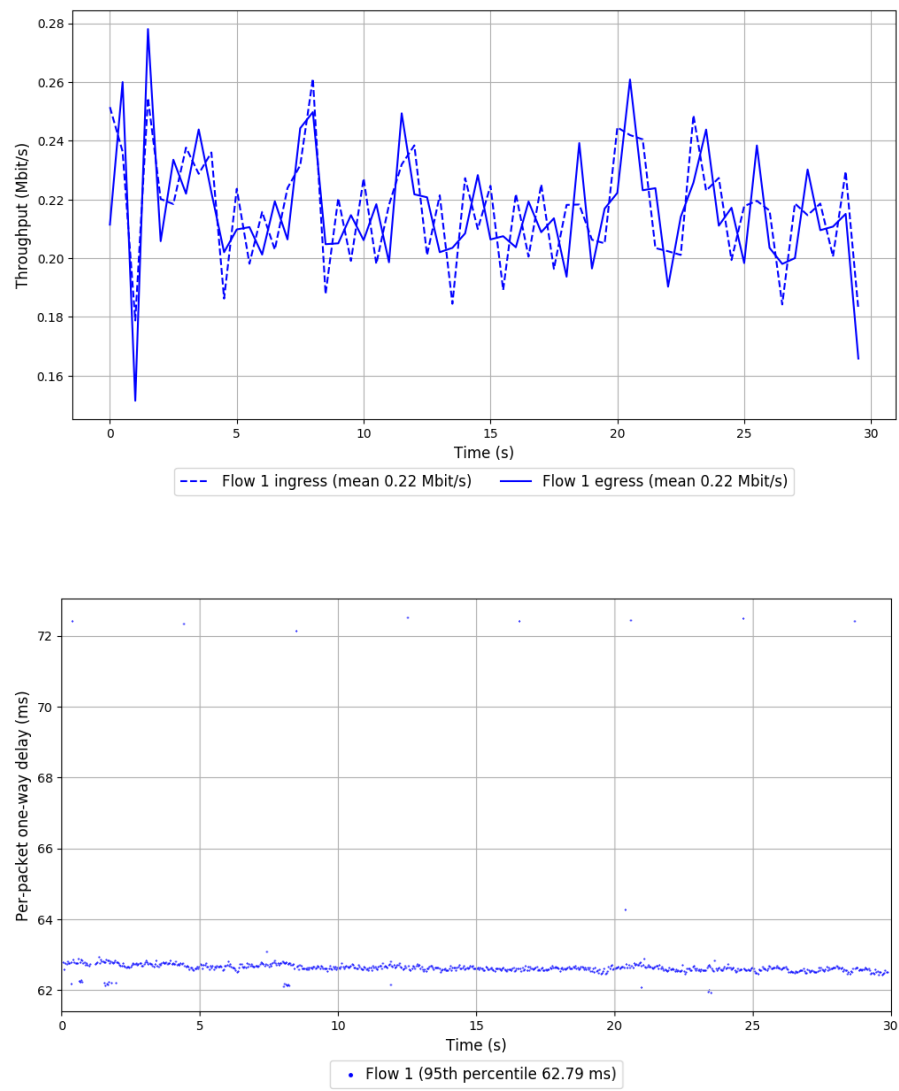


Run 4: Statistics of SCReAM

Start at: 2018-03-14 22:13:25
End at: 2018-03-14 22:13:55
Local clock offset: 1.333 ms
Remote clock offset: -4.512 ms

Below is generated by plot.py at 2018-03-15 04:50:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.792 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.792 ms
Loss rate: 0.38%

Run 4: Report of SReAM — Data Link

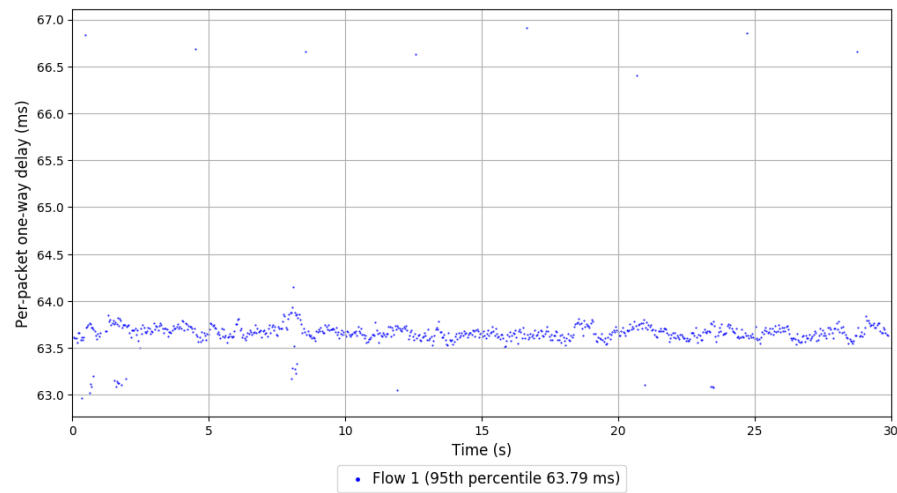
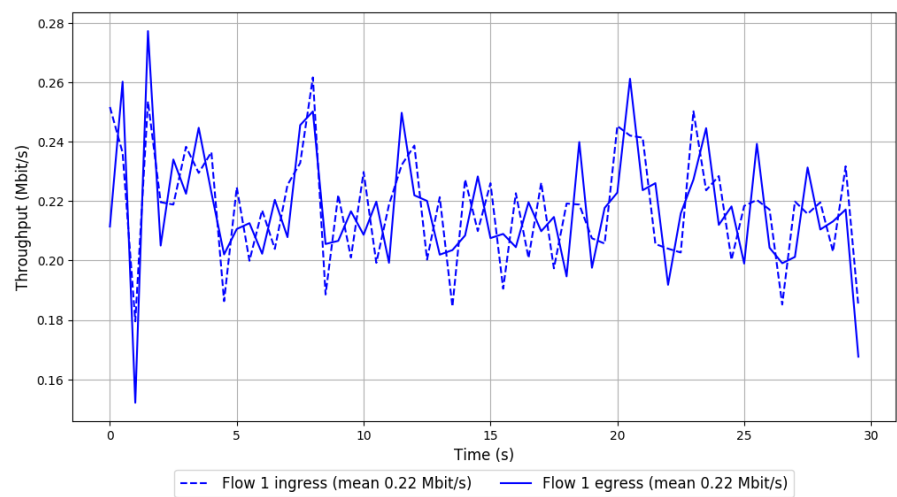


Run 5: Statistics of SCReAM

Start at: 2018-03-14 22:36:44
End at: 2018-03-14 22:37:14
Local clock offset: -0.009 ms
Remote clock offset: -9.092 ms

Below is generated by plot.py at 2018-03-15 04:50:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.786 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.786 ms
Loss rate: 0.38%

Run 5: Report of SReAM — Data Link

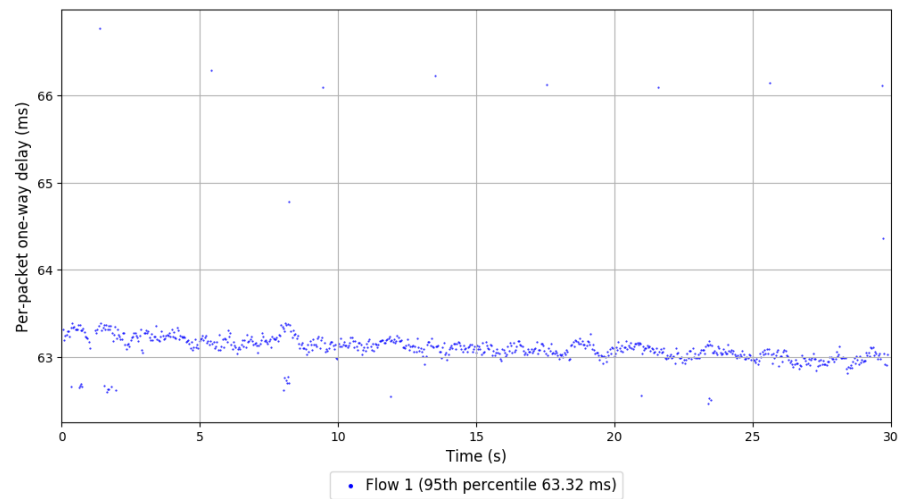
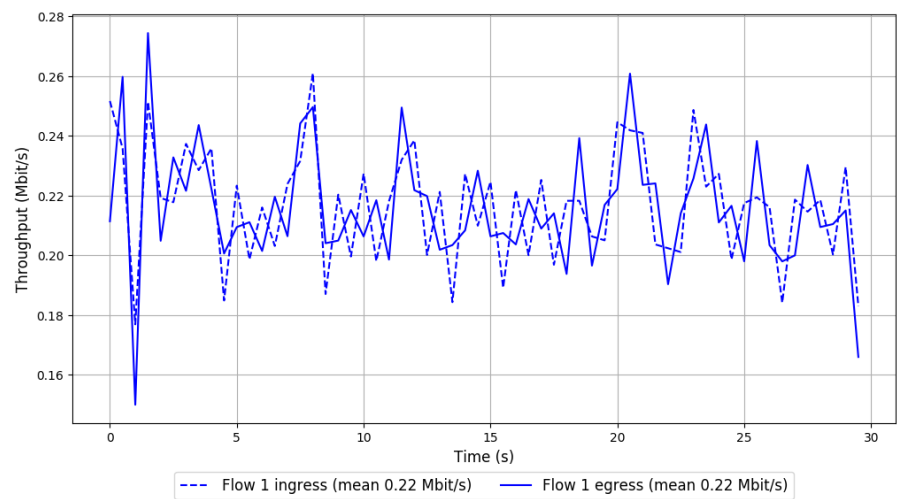


Run 6: Statistics of SCReAM

Start at: 2018-03-14 23:00:02
End at: 2018-03-14 23:00:32
Local clock offset: -2.888 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-03-15 04:50:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.319 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.319 ms
Loss rate: 0.38%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-03-14 23:23:20

End at: 2018-03-14 23:23:50

Local clock offset: 2.37 ms

Remote clock offset: 0.136 ms

Below is generated by plot.py at 2018-03-15 04:50:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.206 ms

Loss rate: 0.51%

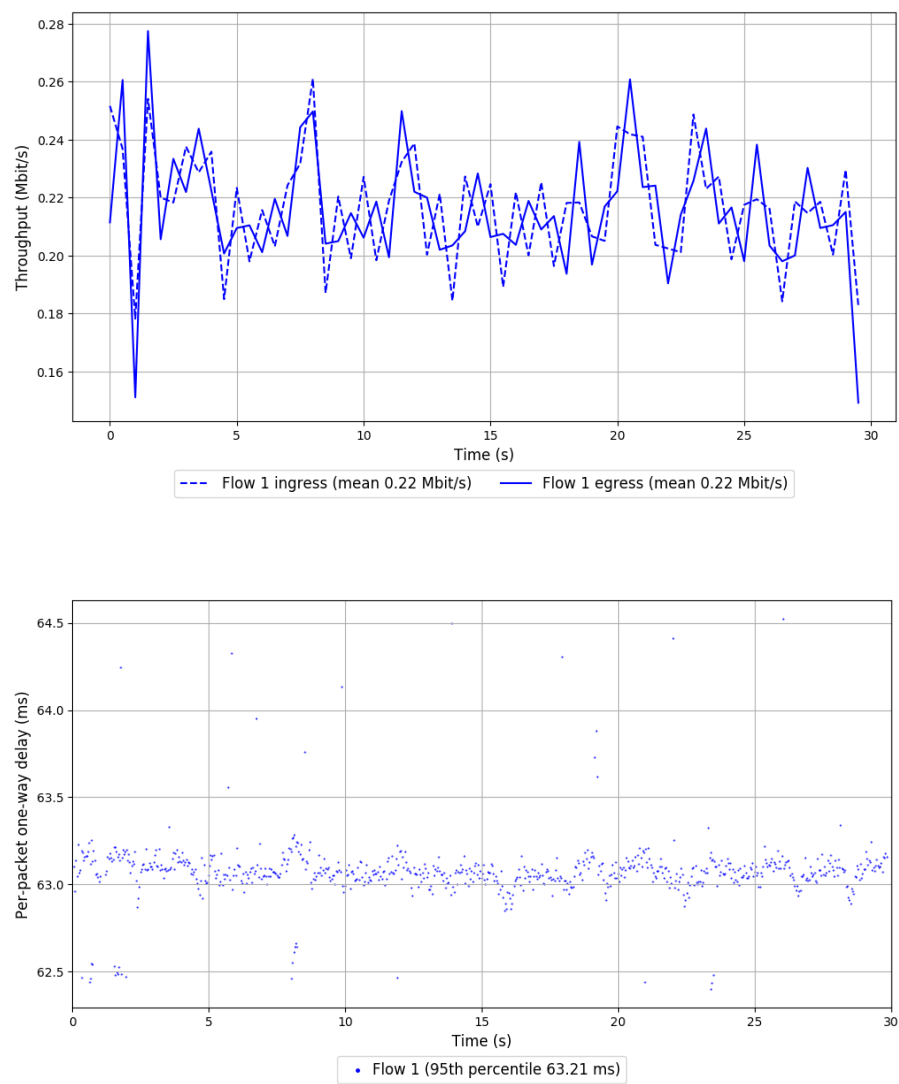
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.206 ms

Loss rate: 0.51%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-03-14 23:46:37

End at: 2018-03-14 23:47:07

Local clock offset: 4.44 ms

Remote clock offset: 0.303 ms

Below is generated by plot.py at 2018-03-15 04:50:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.760 ms

Loss rate: 0.38%

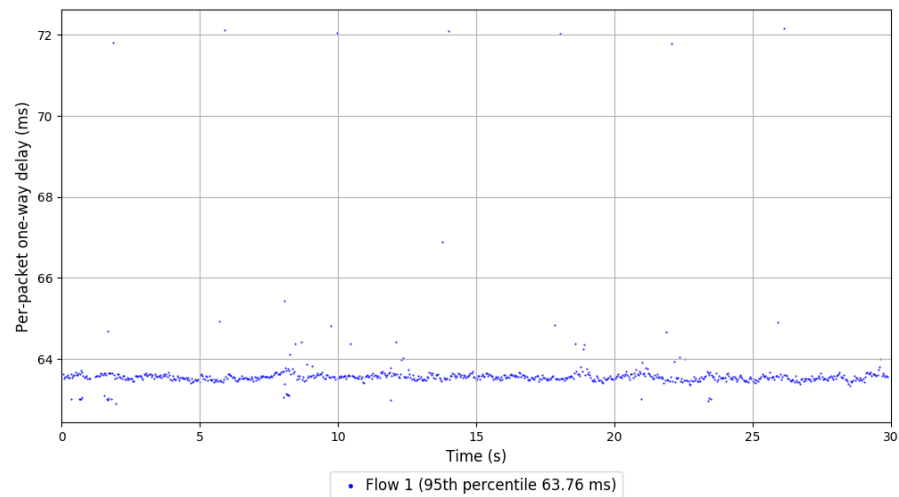
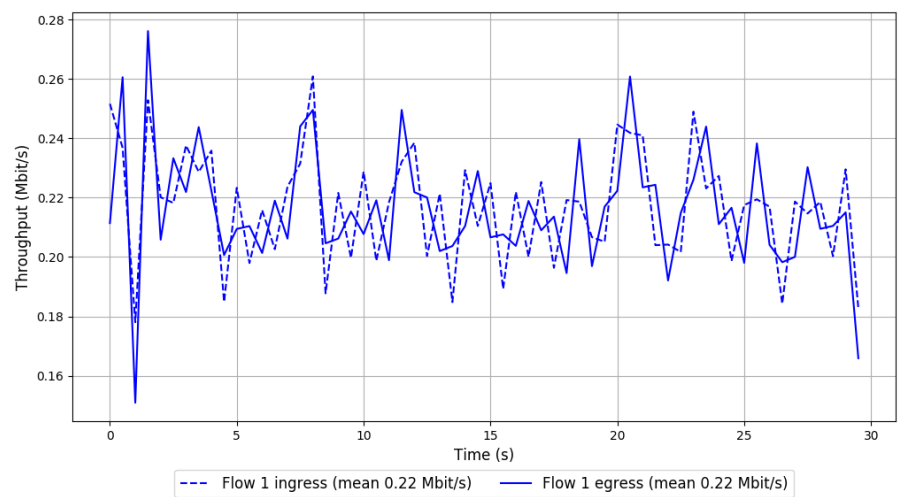
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.760 ms

Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-03-15 00:09:55

End at: 2018-03-15 00:10:25

Local clock offset: 5.239 ms

Remote clock offset: 0.186 ms

Below is generated by plot.py at 2018-03-15 04:50:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.925 ms

Loss rate: 0.38%

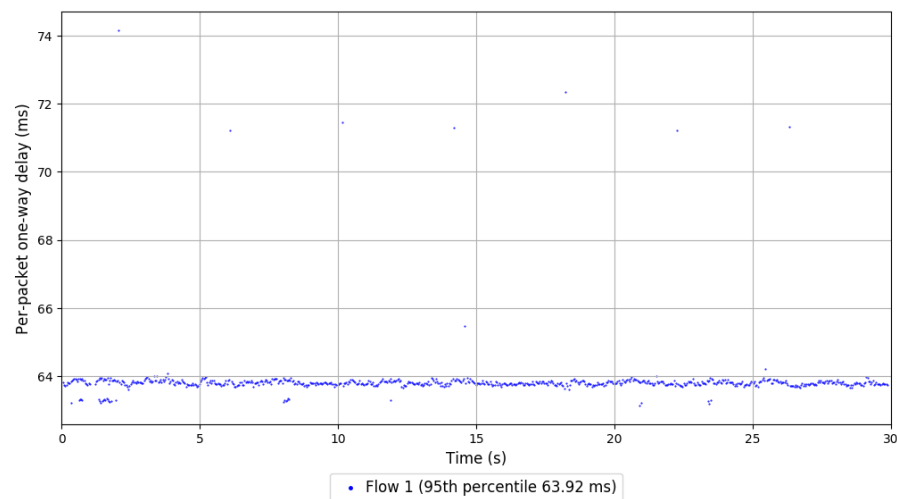
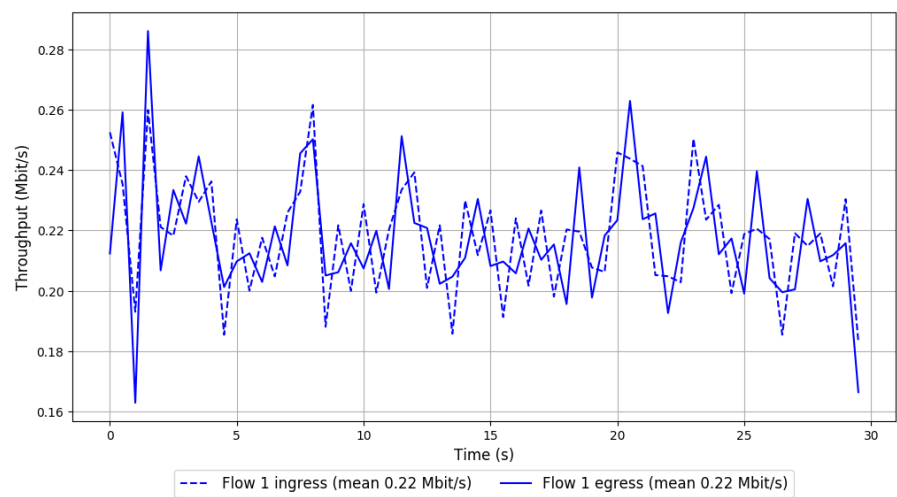
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.925 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-03-15 00:33:59

End at: 2018-03-15 00:34:29

Local clock offset: 5.822 ms

Remote clock offset: 8.781 ms

Below is generated by plot.py at 2018-03-15 04:50:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.938 ms

Loss rate: 0.38%

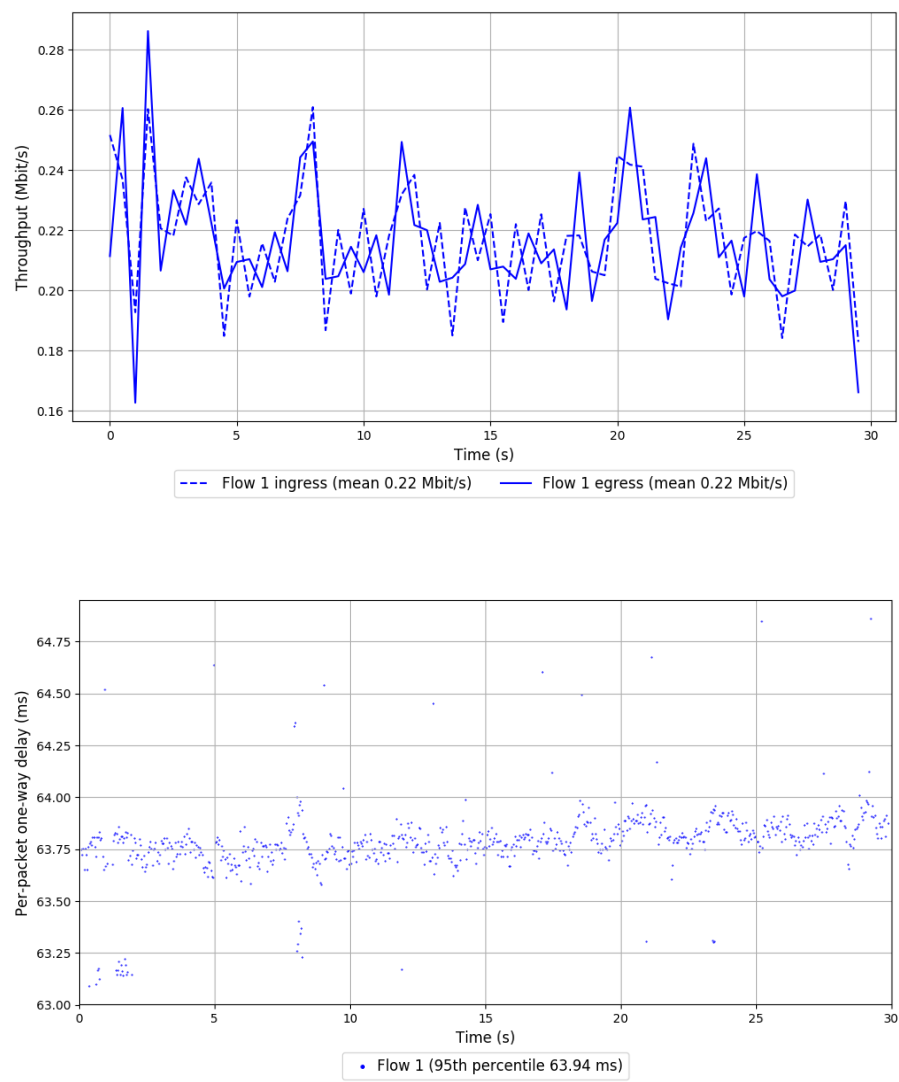
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.938 ms

Loss rate: 0.38%

Run 10: Report of SCRaM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-03-14 21:08:51

End at: 2018-03-14 21:09:21

Local clock offset: -5.676 ms

Remote clock offset: -3.26 ms

Below is generated by plot.py at 2018-03-15 04:50:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 64.171 ms

Loss rate: 0.42%

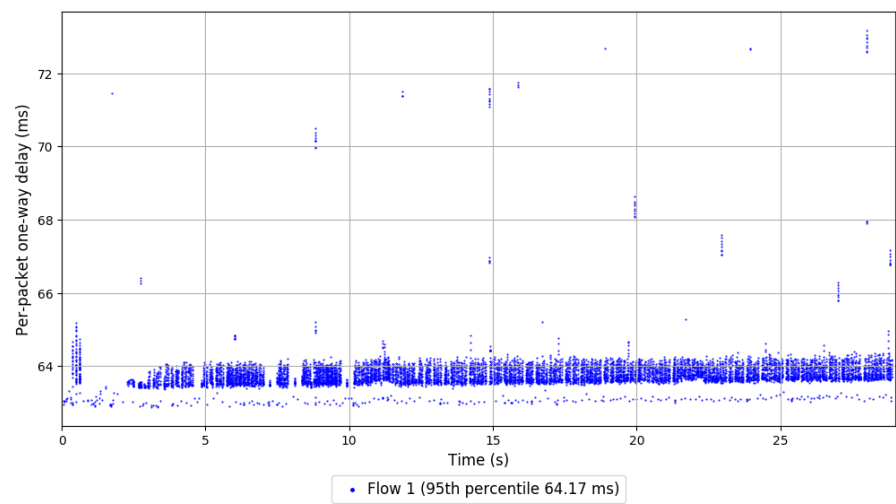
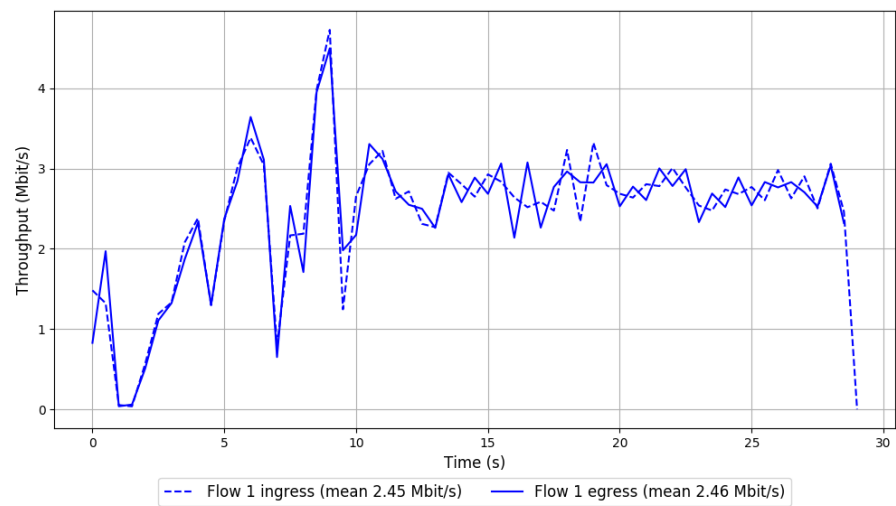
-- Flow 1:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 64.171 ms

Loss rate: 0.42%

Run 1: Report of WebRTC media — Data Link

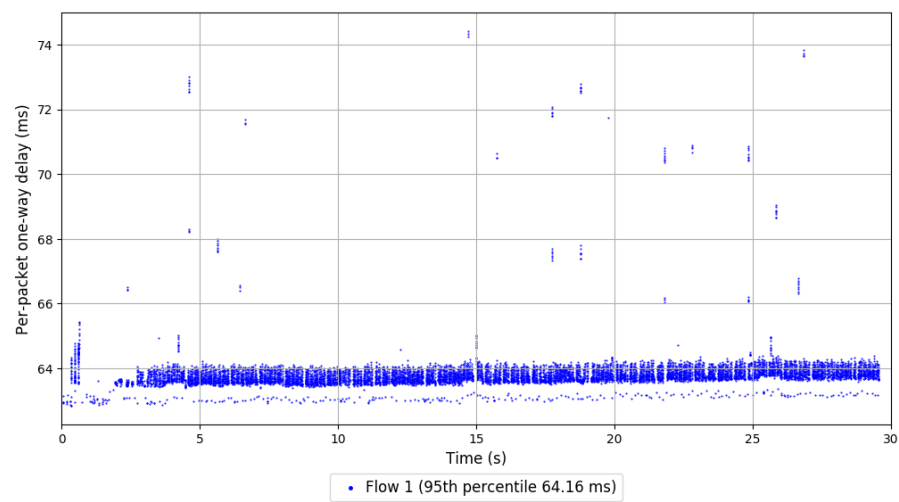
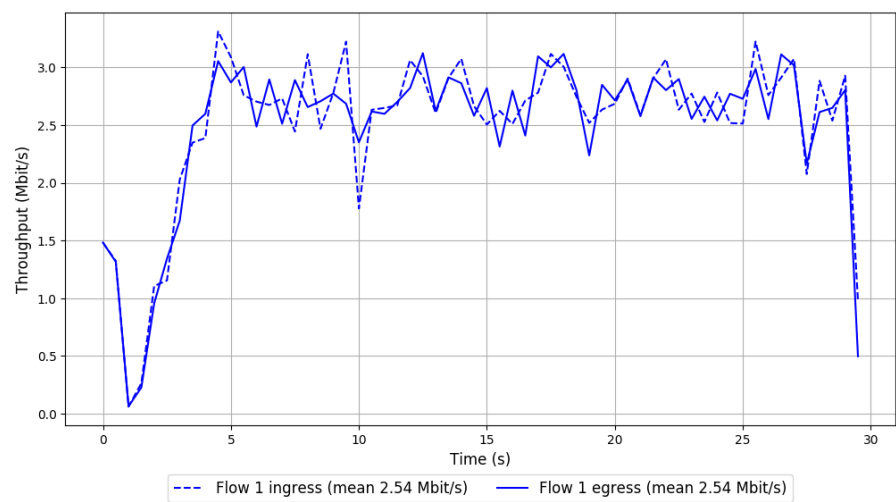


Run 2: Statistics of WebRTC media

Start at: 2018-03-14 21:32:44
End at: 2018-03-14 21:33:14
Local clock offset: -6.09 ms
Remote clock offset: -3.831 ms

Below is generated by plot.py at 2018-03-15 04:50:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.54 Mbit/s
95th percentile per-packet one-way delay: 64.161 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 2.54 Mbit/s
95th percentile per-packet one-way delay: 64.161 ms
Loss rate: 0.65%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-03-14 21:56:09

End at: 2018-03-14 21:56:39

Local clock offset: -4.977 ms

Remote clock offset: 0.669 ms

Below is generated by plot.py at 2018-03-15 04:50:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.50 Mbit/s

95th percentile per-packet one-way delay: 63.018 ms

Loss rate: 0.47%

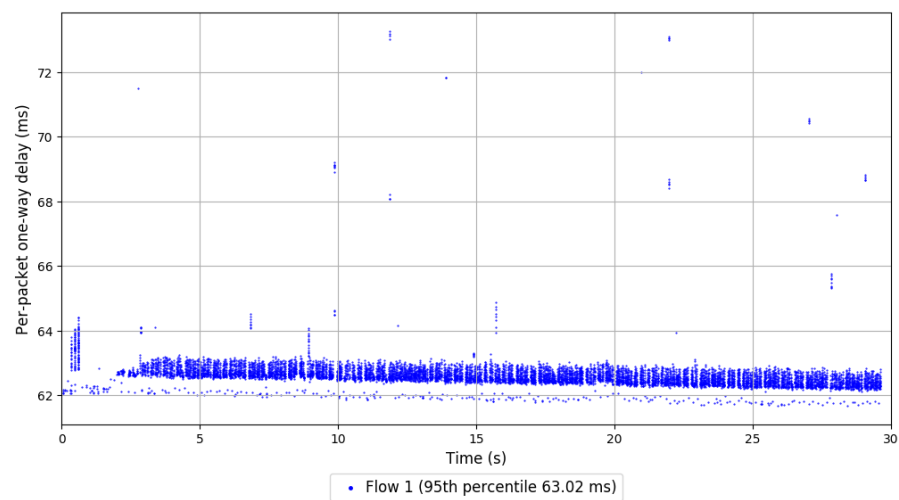
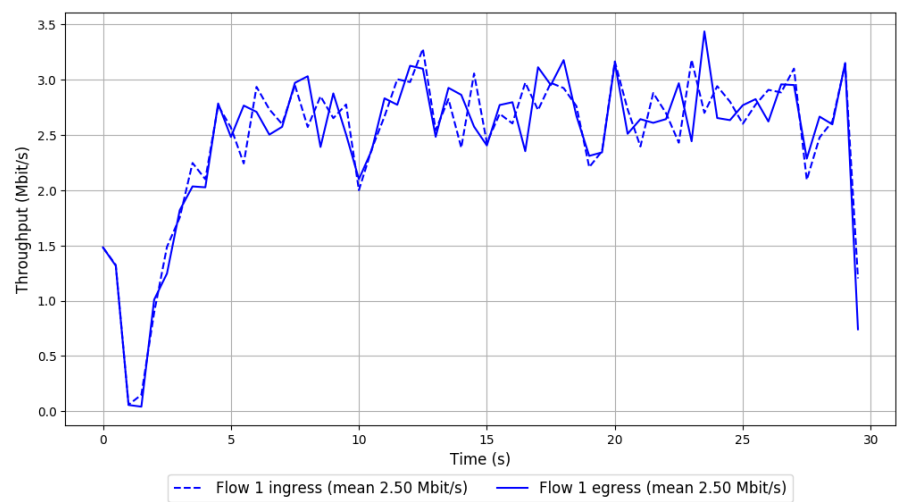
-- Flow 1:

Average throughput: 2.50 Mbit/s

95th percentile per-packet one-way delay: 63.018 ms

Loss rate: 0.47%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-03-14 22:19:34

End at: 2018-03-14 22:20:04

Local clock offset: 1.0 ms

Remote clock offset: -6.562 ms

Below is generated by plot.py at 2018-03-15 04:50:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 63.276 ms

Loss rate: 0.31%

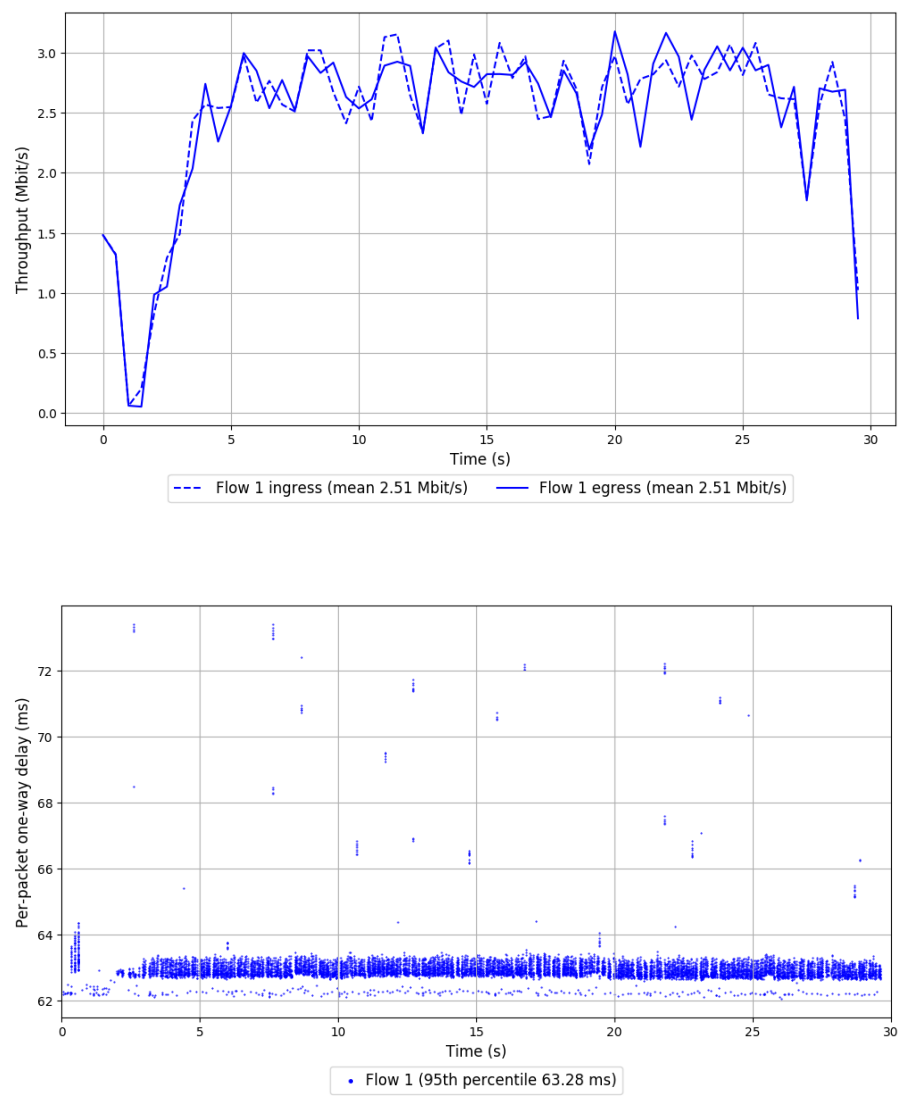
-- Flow 1:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 63.276 ms

Loss rate: 0.31%

Run 4: Report of WebRTC media — Data Link

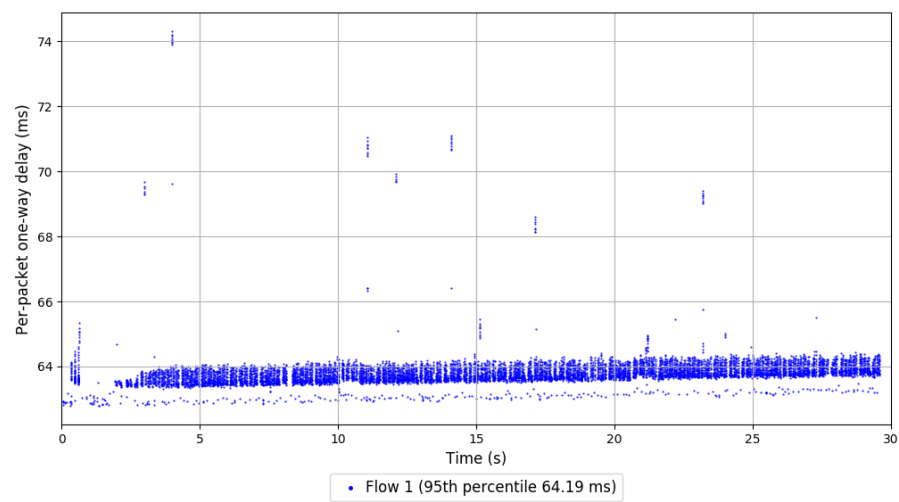
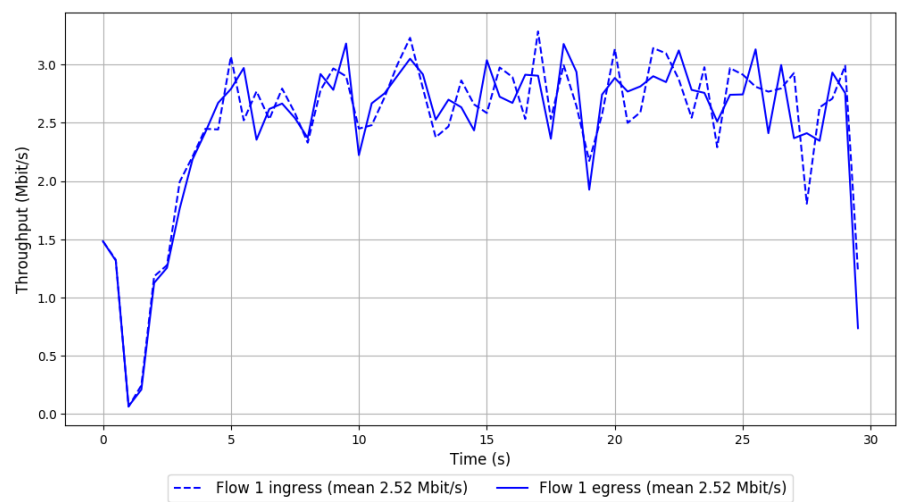


Run 5: Statistics of WebRTC media

Start at: 2018-03-14 22:42:53
End at: 2018-03-14 22:43:23
Local clock offset: -1.437 ms
Remote clock offset: -6.364 ms

Below is generated by plot.py at 2018-03-15 04:50:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.52 Mbit/s
95th percentile per-packet one-way delay: 64.191 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 2.52 Mbit/s
95th percentile per-packet one-way delay: 64.191 ms
Loss rate: 0.65%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-03-14 23:06:10

End at: 2018-03-14 23:06:40

Local clock offset: 0.342 ms

Remote clock offset: 0.922 ms

Below is generated by plot.py at 2018-03-15 04:50:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.52 Mbit/s

95th percentile per-packet one-way delay: 63.766 ms

Loss rate: 0.67%

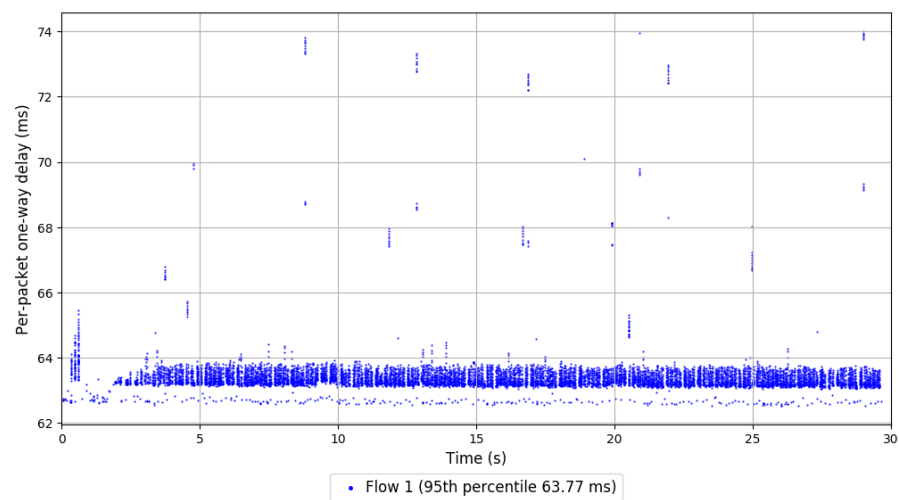
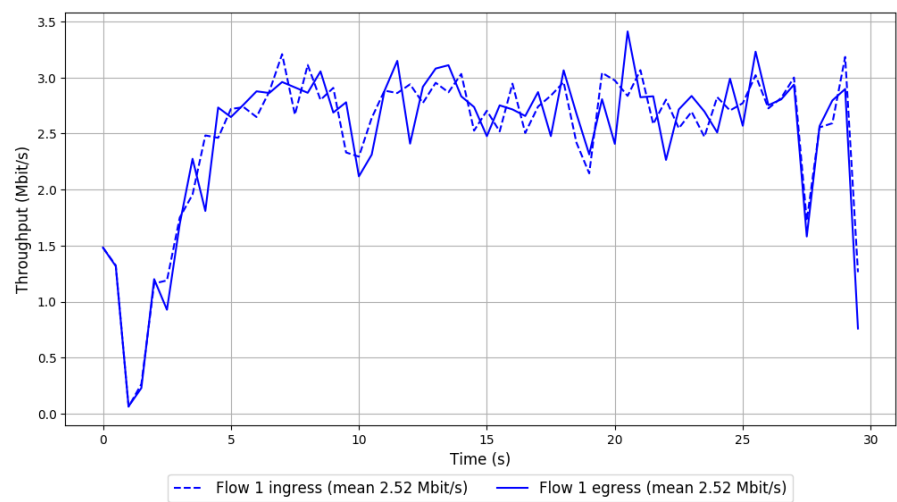
-- Flow 1:

Average throughput: 2.52 Mbit/s

95th percentile per-packet one-way delay: 63.766 ms

Loss rate: 0.67%

Run 6: Report of WebRTC media — Data Link

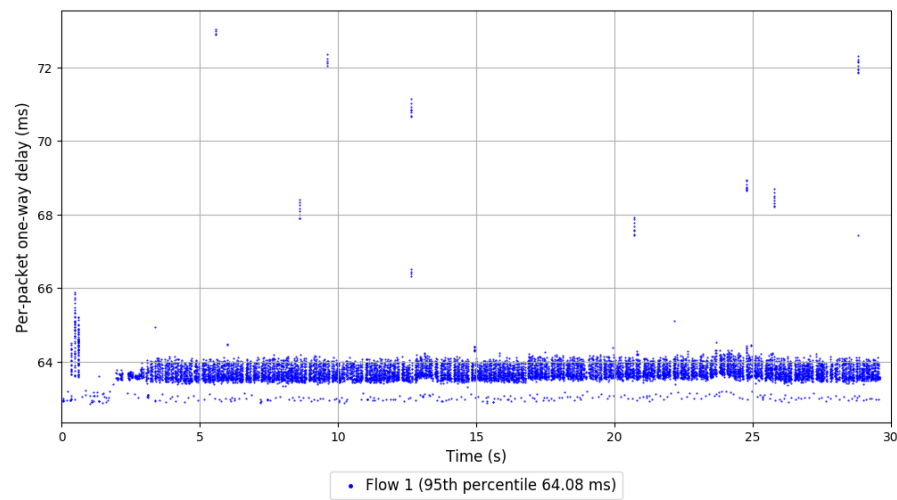
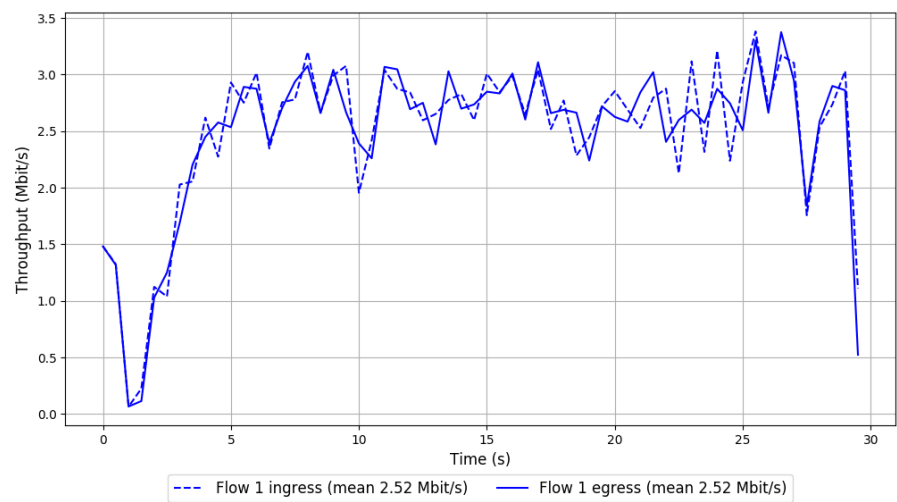


Run 7: Statistics of WebRTC media

Start at: 2018-03-14 23:29:28
End at: 2018-03-14 23:29:58
Local clock offset: 2.459 ms
Remote clock offset: -0.099 ms

Below is generated by plot.py at 2018-03-15 04:50:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.52 Mbit/s
95th percentile per-packet one-way delay: 64.080 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 2.52 Mbit/s
95th percentile per-packet one-way delay: 64.080 ms
Loss rate: 0.65%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-03-14 23:52:46

End at: 2018-03-14 23:53:16

Local clock offset: 4.886 ms

Remote clock offset: 0.141 ms

Below is generated by plot.py at 2018-03-15 04:50:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 63.677 ms

Loss rate: 0.64%

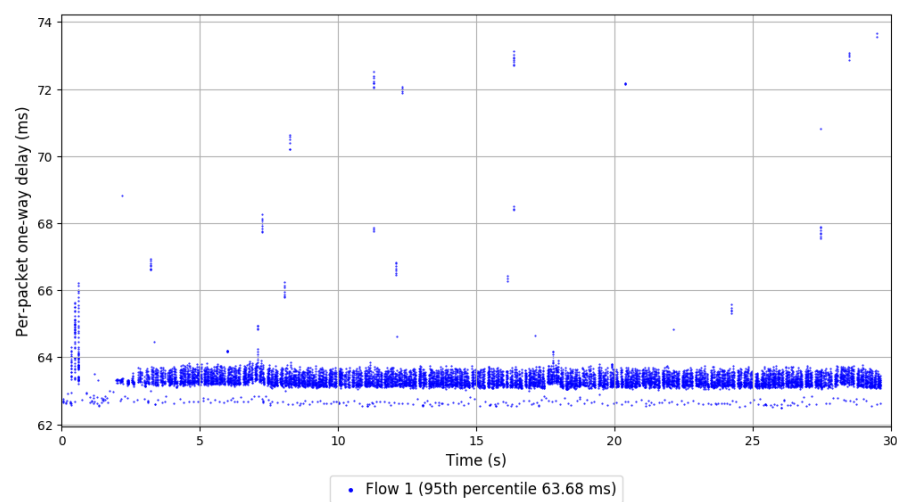
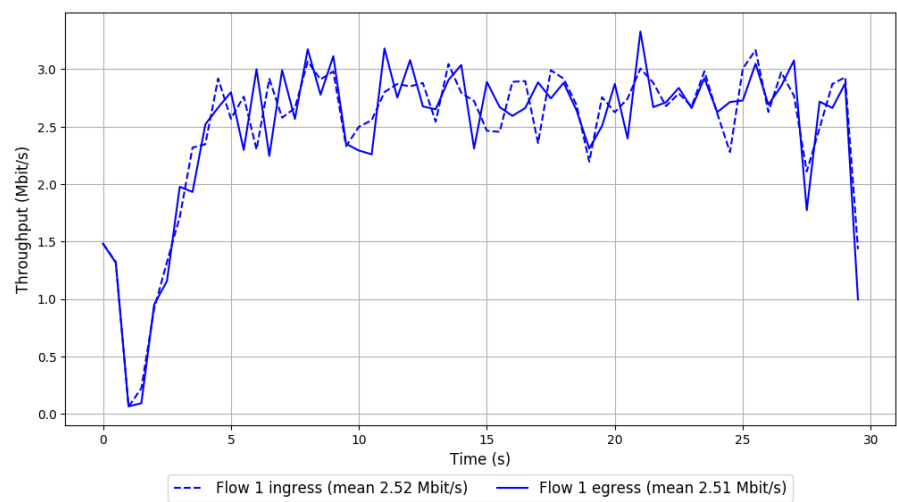
-- Flow 1:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 63.677 ms

Loss rate: 0.64%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-03-15 00:16:02

End at: 2018-03-15 00:16:32

Local clock offset: 5.393 ms

Remote clock offset: 0.322 ms

Below is generated by plot.py at 2018-03-15 04:50:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 64.409 ms

Loss rate: 0.49%

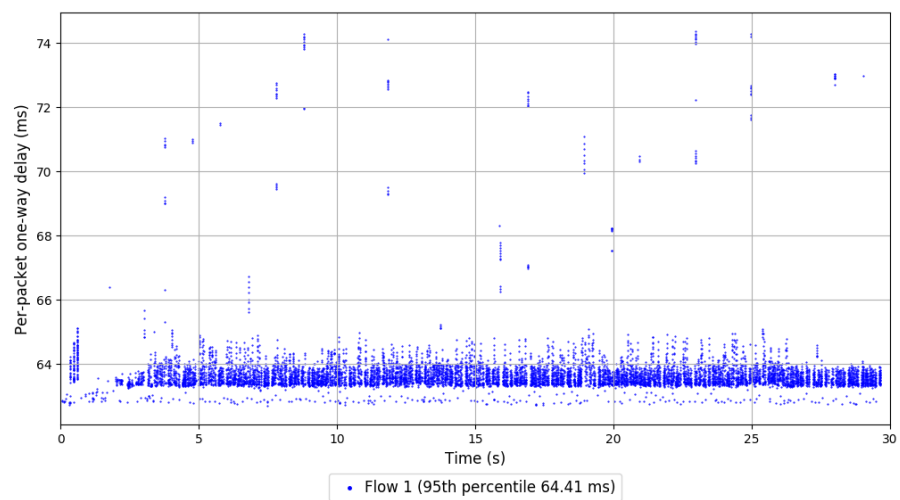
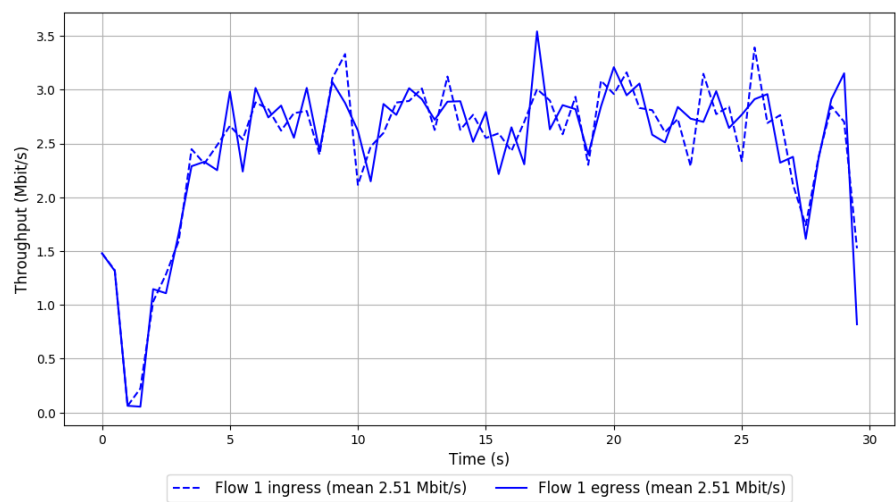
-- Flow 1:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 64.409 ms

Loss rate: 0.49%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-15 00:40:08

End at: 2018-03-15 00:40:38

Local clock offset: 5.843 ms

Remote clock offset: 10.665 ms

Below is generated by plot.py at 2018-03-15 04:50:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.52 Mbit/s

95th percentile per-packet one-way delay: 63.961 ms

Loss rate: 0.31%

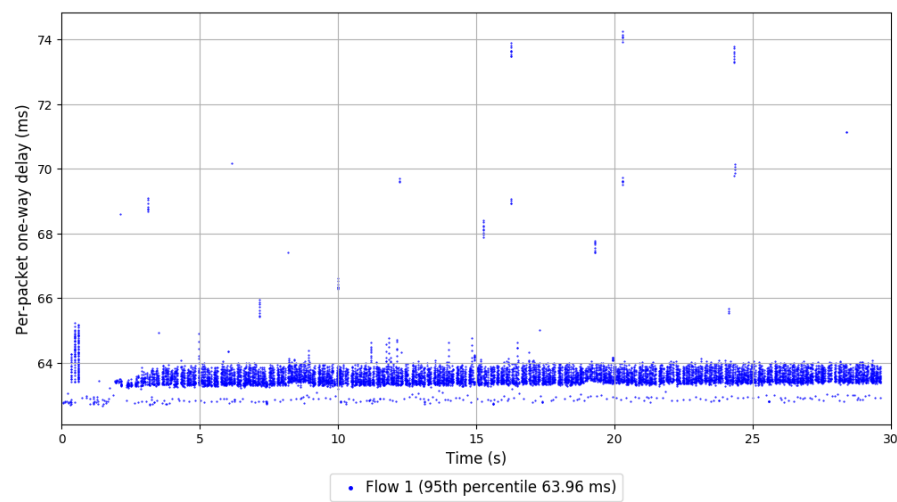
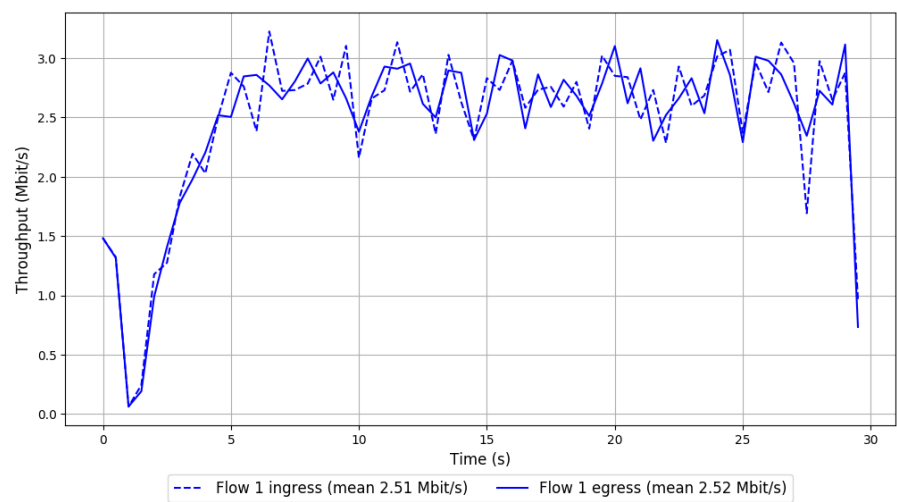
-- Flow 1:

Average throughput: 2.52 Mbit/s

95th percentile per-packet one-way delay: 63.961 ms

Loss rate: 0.31%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-03-14 20:52:53

End at: 2018-03-14 20:53:23

Local clock offset: -3.397 ms

Remote clock offset: -0.7 ms

Below is generated by plot.py at 2018-03-15 04:50:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.90 Mbit/s

95th percentile per-packet one-way delay: 67.426 ms

Loss rate: 0.55%

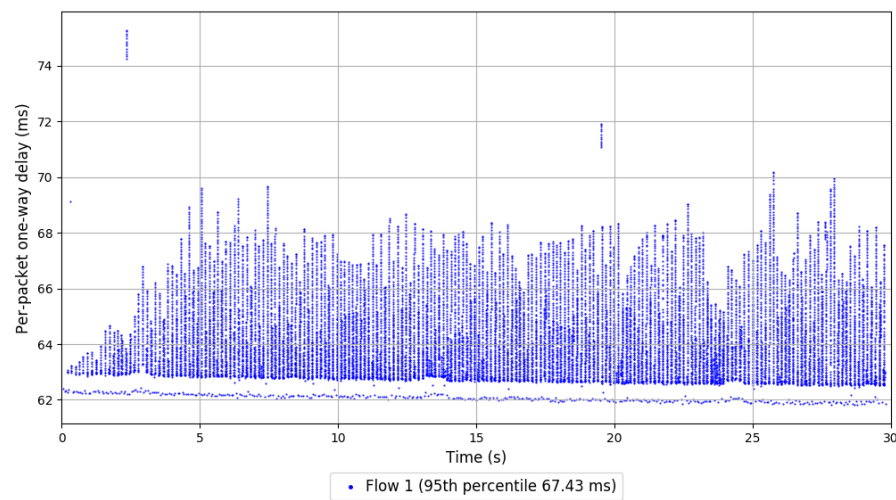
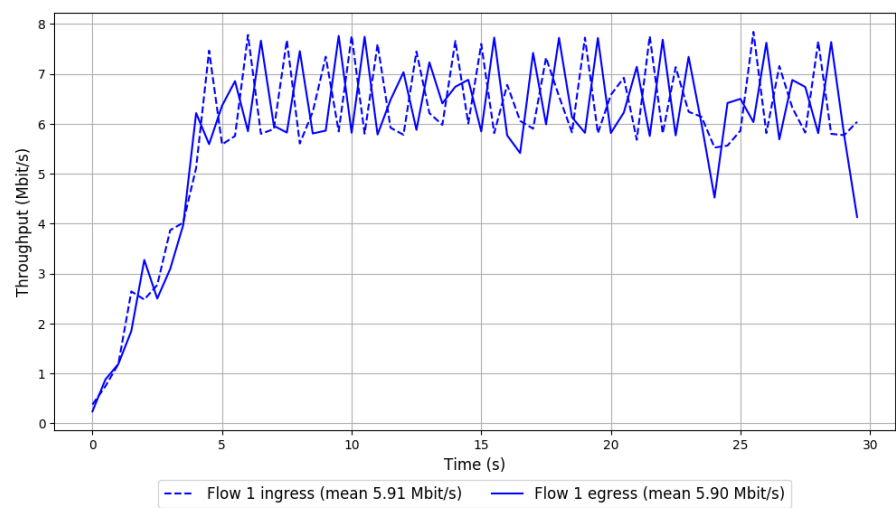
-- Flow 1:

Average throughput: 5.90 Mbit/s

95th percentile per-packet one-way delay: 67.426 ms

Loss rate: 0.55%

Run 1: Report of Sprout — Data Link

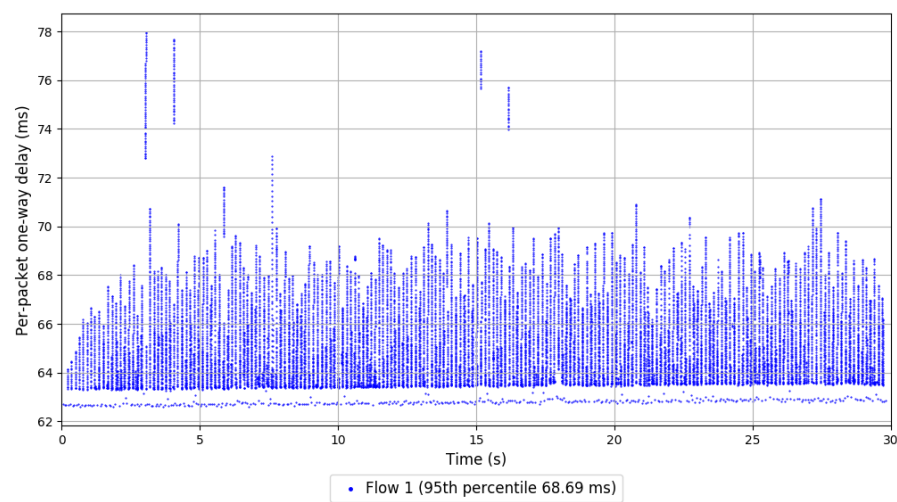
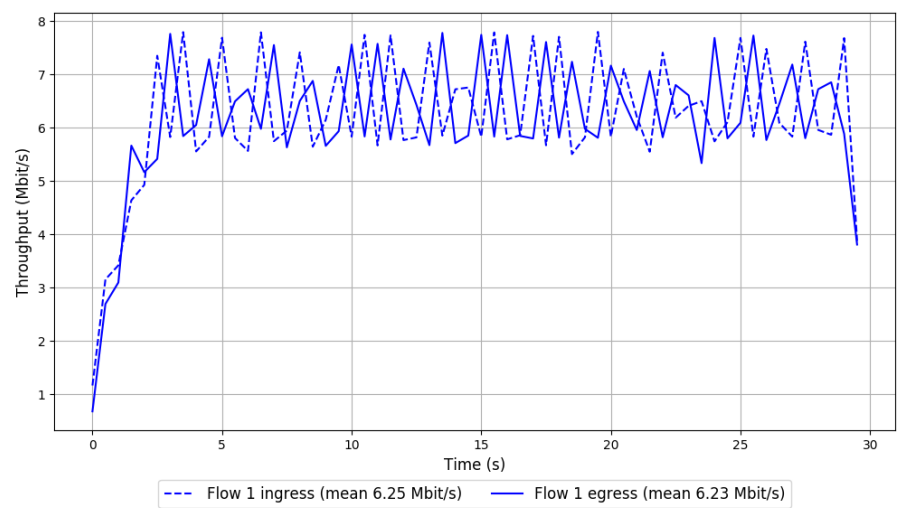


Run 2: Statistics of Sprout

Start at: 2018-03-14 21:16:11
End at: 2018-03-14 21:16:41
Local clock offset: -10.894 ms
Remote clock offset: -3.788 ms

Below is generated by plot.py at 2018-03-15 04:50:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.23 Mbit/s
95th percentile per-packet one-way delay: 68.685 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 6.23 Mbit/s
95th percentile per-packet one-way delay: 68.685 ms
Loss rate: 0.52%

Run 2: Report of Sprout — Data Link

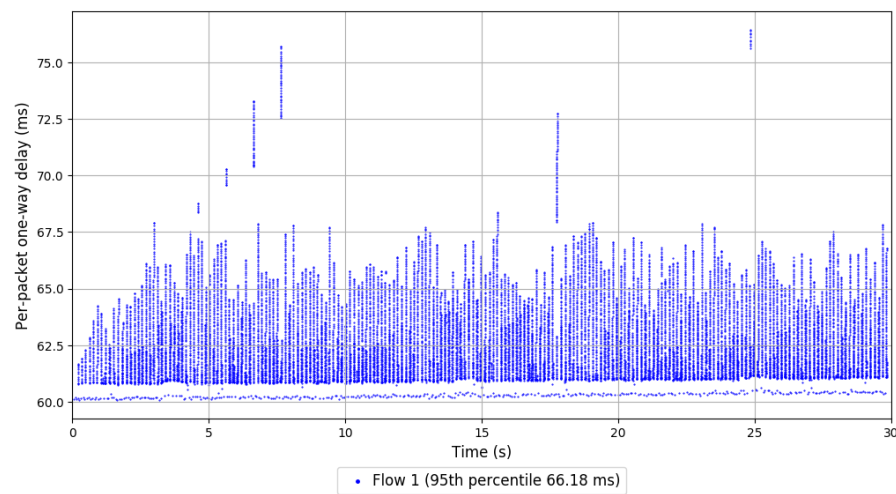
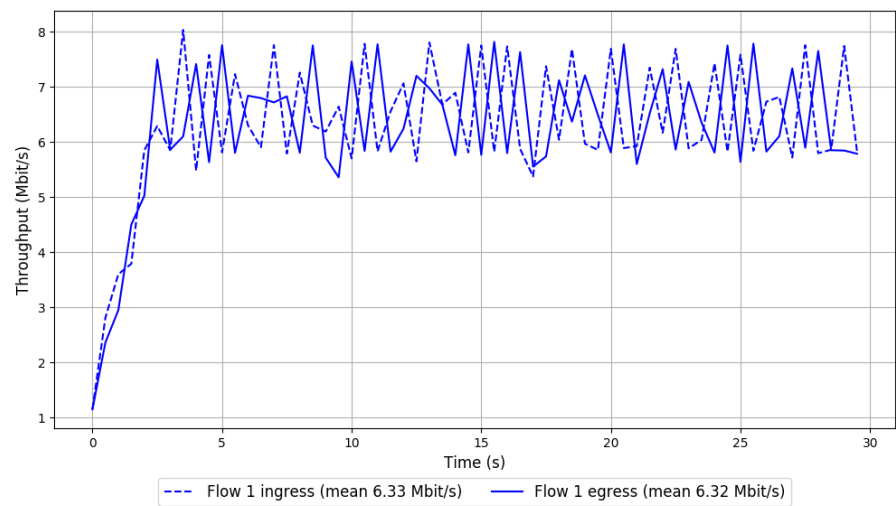


Run 3: Statistics of Sprout

Start at: 2018-03-14 21:40:08
End at: 2018-03-14 21:40:38
Local clock offset: -10.734 ms
Remote clock offset: -1.352 ms

Below is generated by plot.py at 2018-03-15 04:50:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.32 Mbit/s
95th percentile per-packet one-way delay: 66.178 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 6.32 Mbit/s
95th percentile per-packet one-way delay: 66.178 ms
Loss rate: 0.51%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-03-14 22:03:27

End at: 2018-03-14 22:03:57

Local clock offset: 0.376 ms

Remote clock offset: 1.281 ms

Below is generated by plot.py at 2018-03-15 04:50:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.68 Mbit/s

95th percentile per-packet one-way delay: 71.836 ms

Loss rate: 0.31%

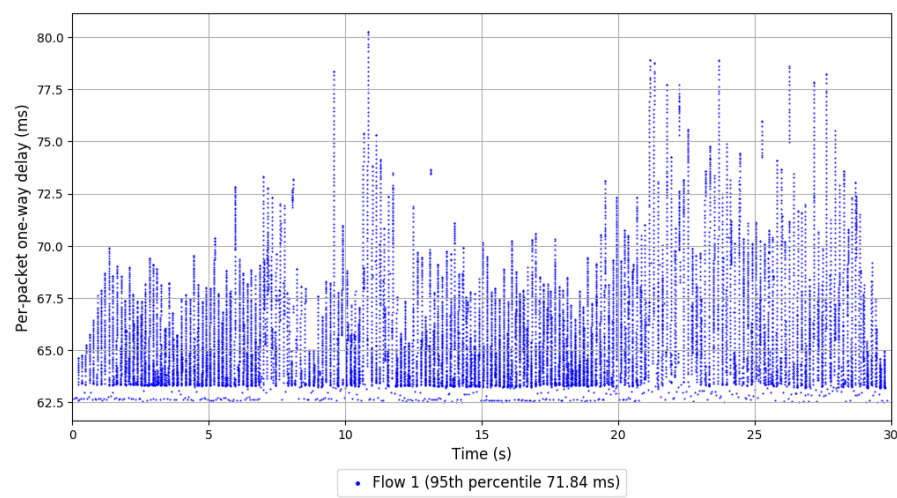
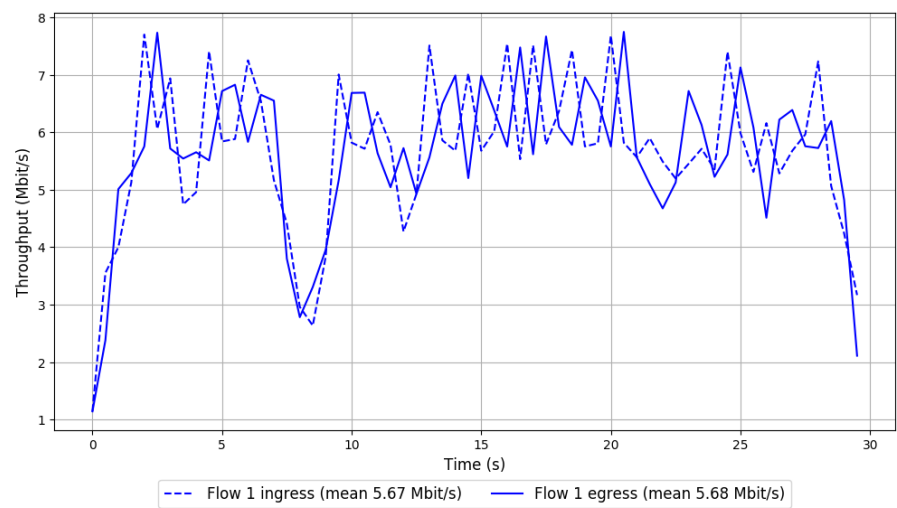
-- Flow 1:

Average throughput: 5.68 Mbit/s

95th percentile per-packet one-way delay: 71.836 ms

Loss rate: 0.31%

Run 4: Report of Sprout — Data Link

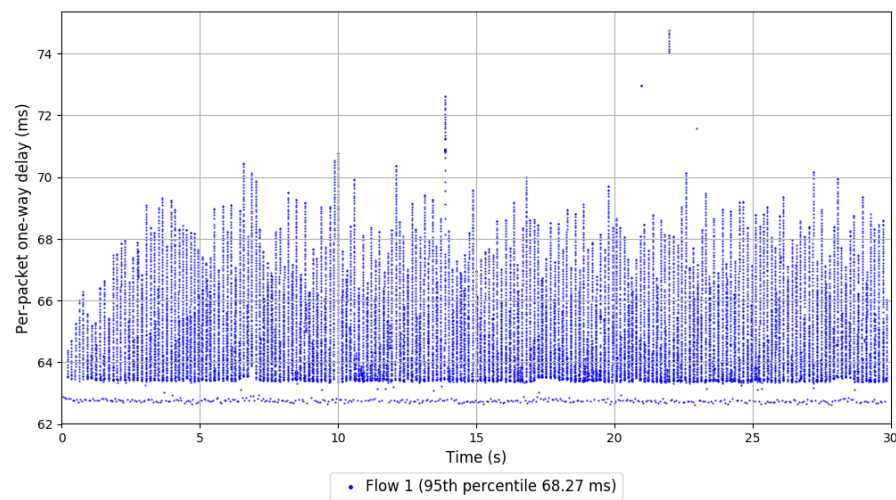
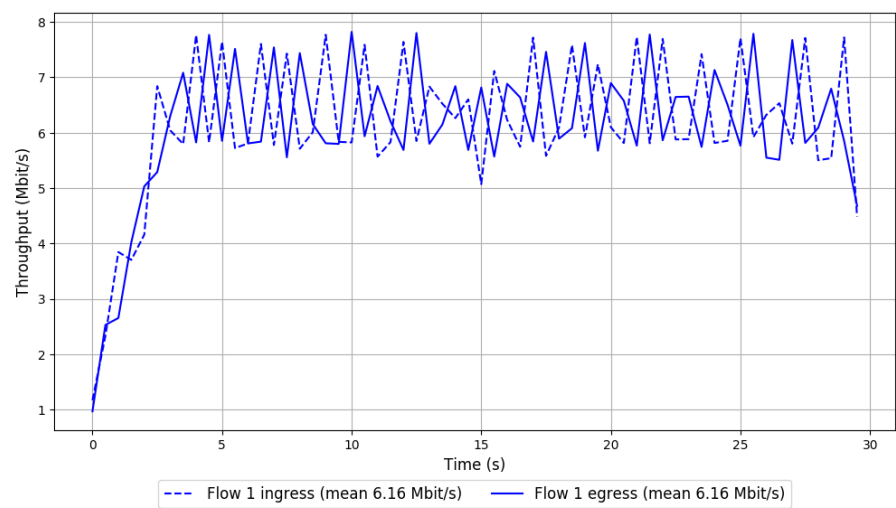


Run 5: Statistics of Sprout

Start at: 2018-03-14 22:26:52
End at: 2018-03-14 22:27:22
Local clock offset: 0.849 ms
Remote clock offset: -7.878 ms

Below is generated by plot.py at 2018-03-15 04:50:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.16 Mbit/s
95th percentile per-packet one-way delay: 68.272 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 6.16 Mbit/s
95th percentile per-packet one-way delay: 68.272 ms
Loss rate: 0.47%

Run 5: Report of Sprout — Data Link

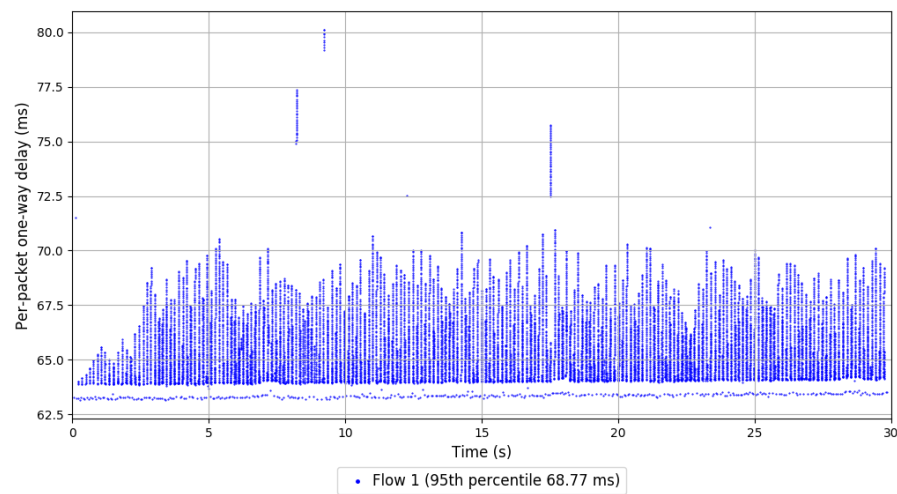
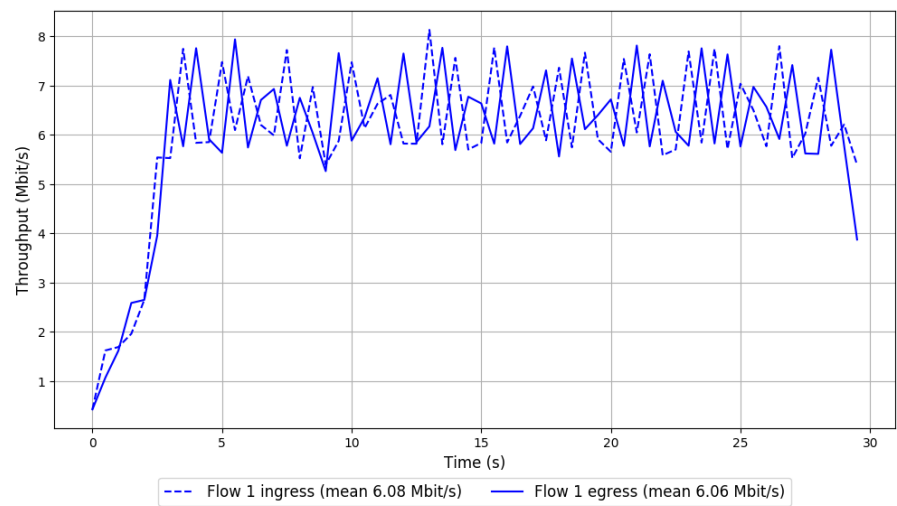


Run 6: Statistics of Sprout

Start at: 2018-03-14 22:50:11
End at: 2018-03-14 22:50:41
Local clock offset: -1.869 ms
Remote clock offset: -2.559 ms

Below is generated by plot.py at 2018-03-15 04:50:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.06 Mbit/s
95th percentile per-packet one-way delay: 68.766 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 6.06 Mbit/s
95th percentile per-packet one-way delay: 68.766 ms
Loss rate: 0.54%

Run 6: Report of Sprout — Data Link

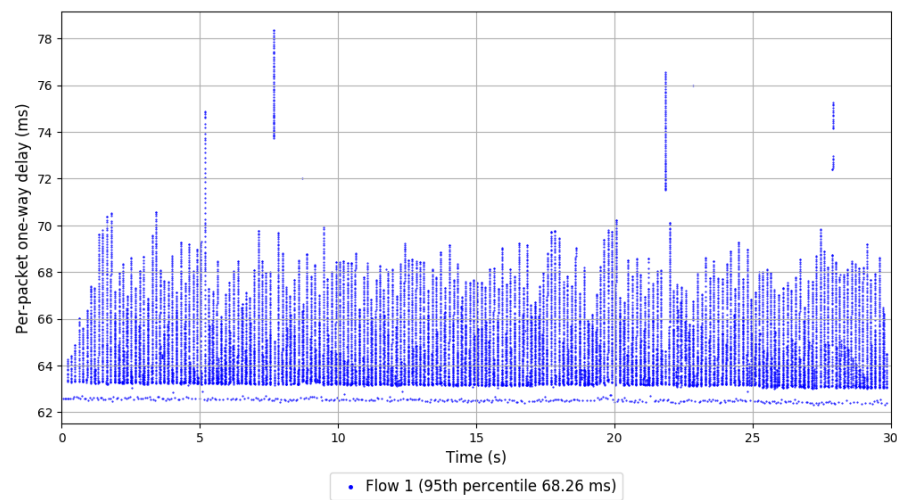
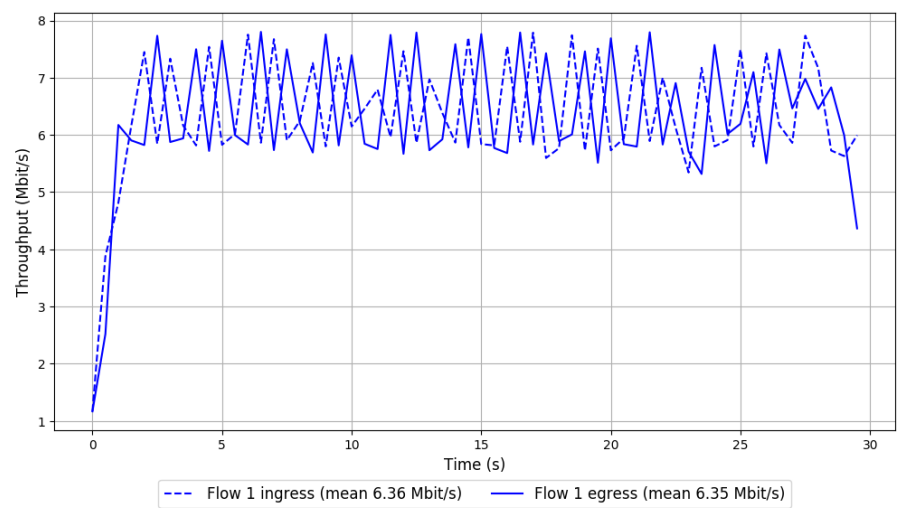


Run 7: Statistics of Sprout

Start at: 2018-03-14 23:13:28
End at: 2018-03-14 23:13:58
Local clock offset: 2.106 ms
Remote clock offset: 1.949 ms

Below is generated by plot.py at 2018-03-15 04:50:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.35 Mbit/s
95th percentile per-packet one-way delay: 68.264 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 6.35 Mbit/s
95th percentile per-packet one-way delay: 68.264 ms
Loss rate: 0.43%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-03-14 23:36:47

End at: 2018-03-14 23:37:17

Local clock offset: 3.058 ms

Remote clock offset: 0.04 ms

Below is generated by plot.py at 2018-03-15 04:50:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.30 Mbit/s

95th percentile per-packet one-way delay: 68.095 ms

Loss rate: 0.47%

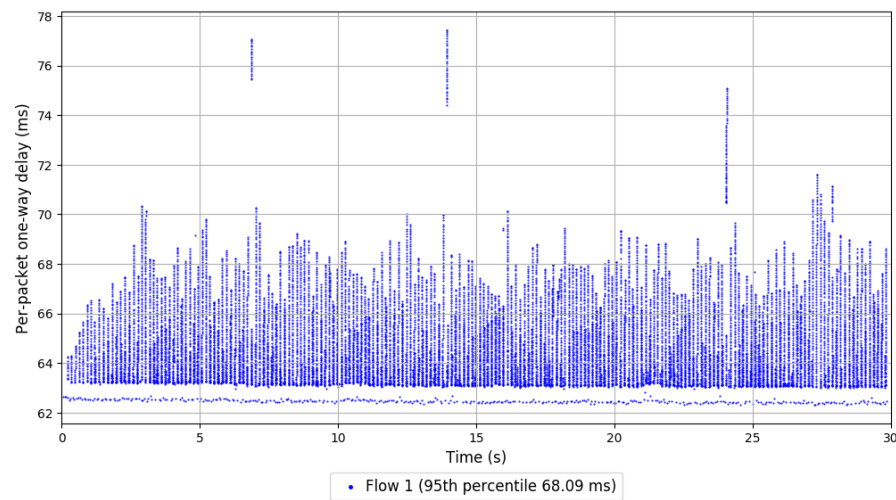
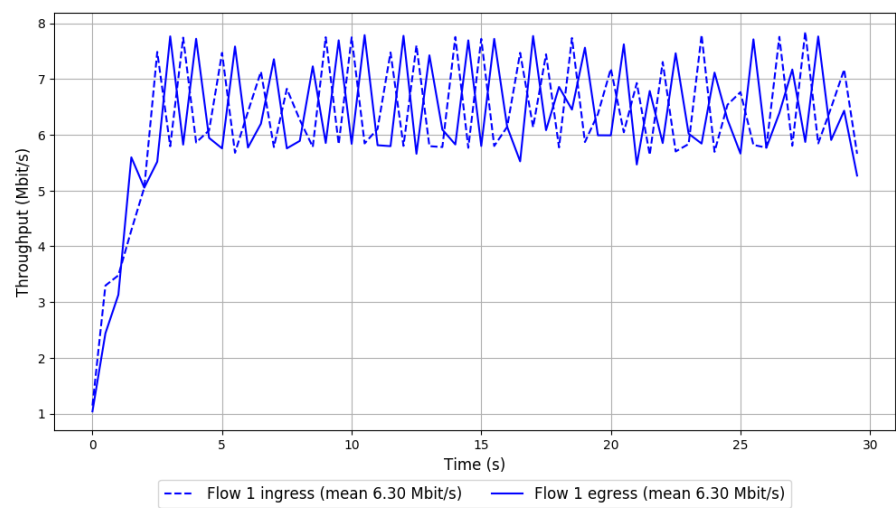
-- Flow 1:

Average throughput: 6.30 Mbit/s

95th percentile per-packet one-way delay: 68.095 ms

Loss rate: 0.47%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-03-15 00:00:05

End at: 2018-03-15 00:00:35

Local clock offset: 4.872 ms

Remote clock offset: 0.079 ms

Below is generated by plot.py at 2018-03-15 04:50:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.07 Mbit/s

95th percentile per-packet one-way delay: 69.025 ms

Loss rate: 0.53%

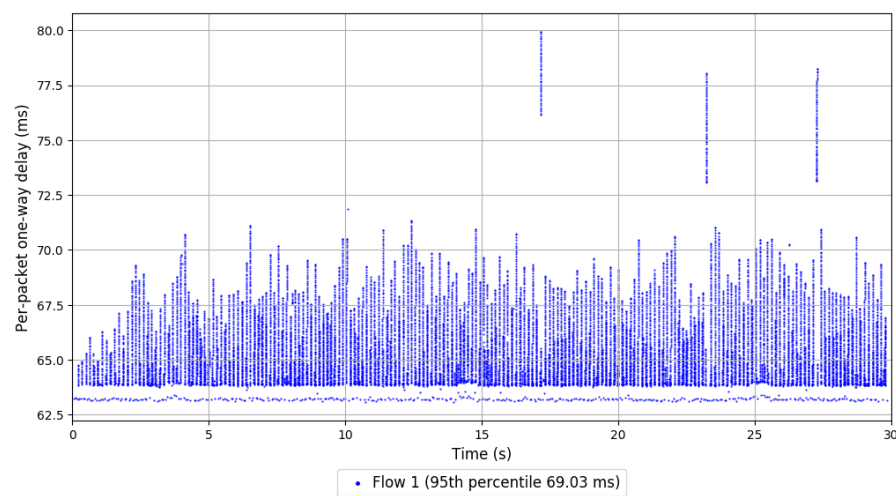
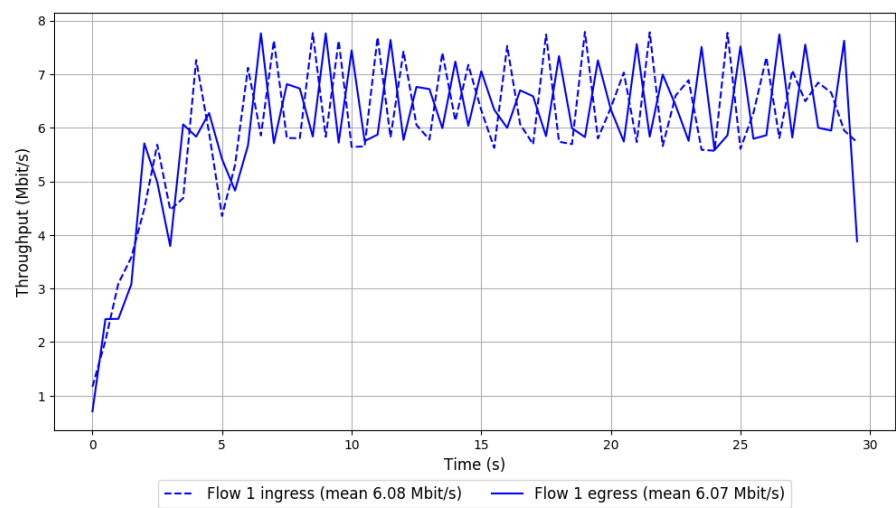
-- Flow 1:

Average throughput: 6.07 Mbit/s

95th percentile per-packet one-way delay: 69.025 ms

Loss rate: 0.53%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

/home/ubuntu/pantheon_data/2018-03-14T20-47-China-to-AWS-Korea-10-runs/sprout_stats_run10.1

Run 10: Report of Sprout — Data Link

Figure is missing

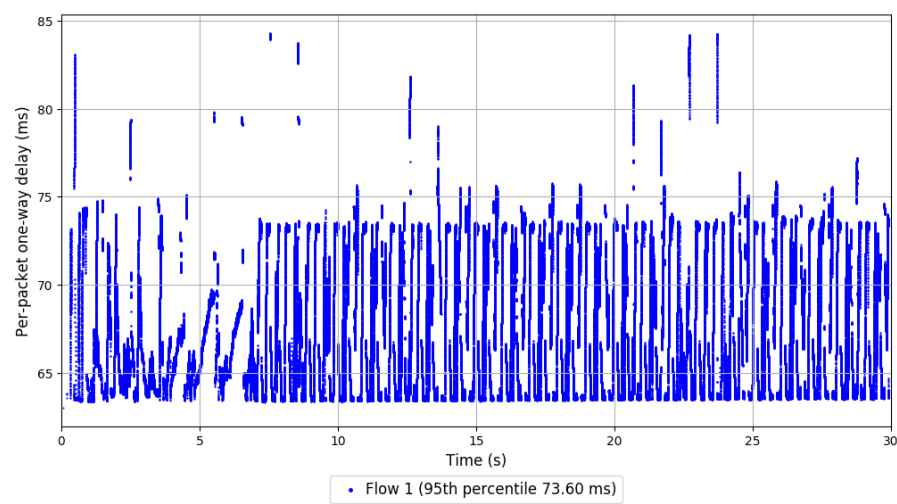
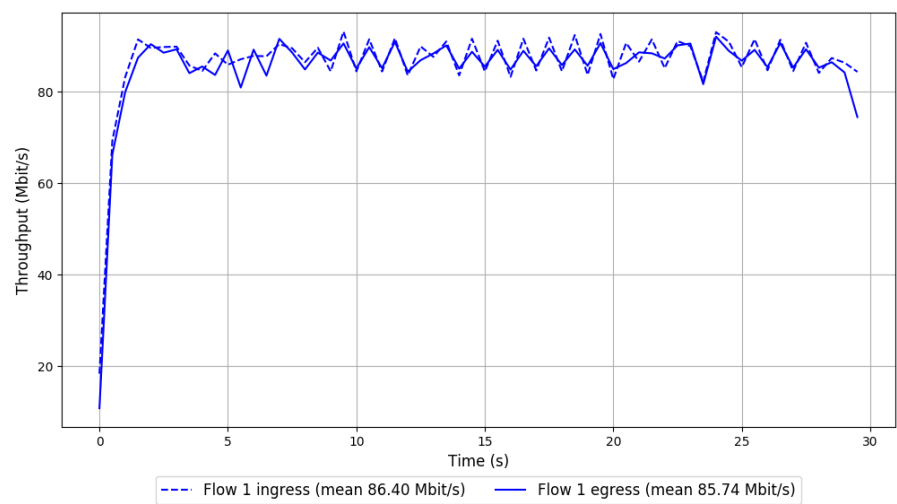
Figure is missing

```
Run 1: Statistics of TaoVA-100x

Start at: 2018-03-14 20:57:46
End at: 2018-03-14 20:58:16
Local clock offset: -3.226 ms
Remote clock offset: -0.96 ms

# Below is generated by plot.py at 2018-03-15 04:52:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.74 Mbit/s
95th percentile per-packet one-way delay: 73.598 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 85.74 Mbit/s
95th percentile per-packet one-way delay: 73.598 ms
Loss rate: 1.18%
```

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

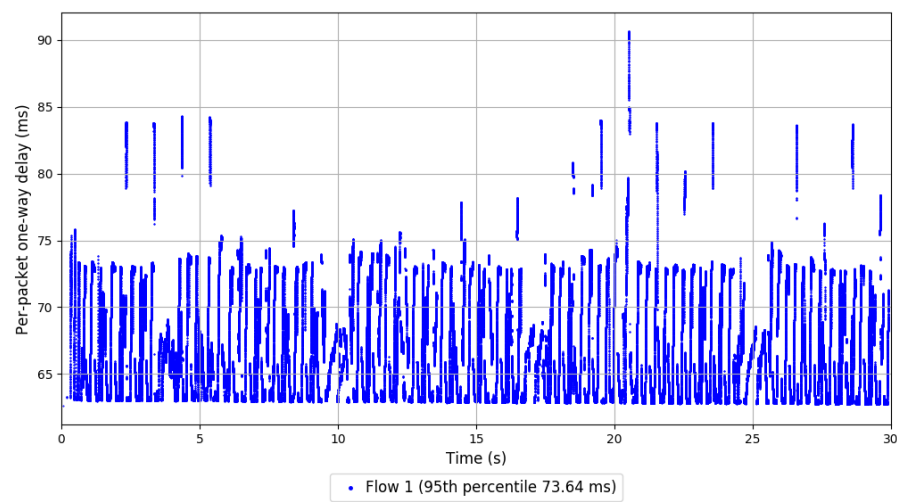
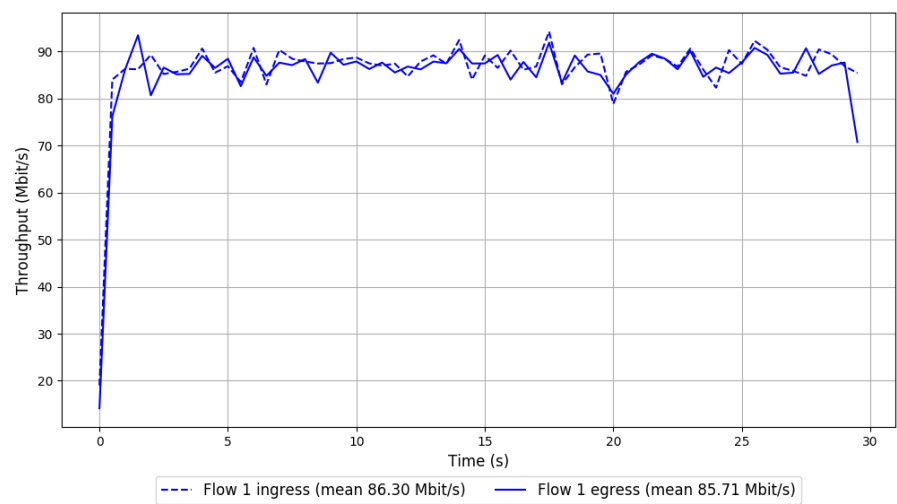


Run 2: Statistics of TaoVA-100x

Start at: 2018-03-14 21:21:04
End at: 2018-03-14 21:21:34
Local clock offset: -7.293 ms
Remote clock offset: -4.132 ms

Below is generated by plot.py at 2018-03-15 04:52:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.71 Mbit/s
95th percentile per-packet one-way delay: 73.635 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 85.71 Mbit/s
95th percentile per-packet one-way delay: 73.635 ms
Loss rate: 1.11%

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

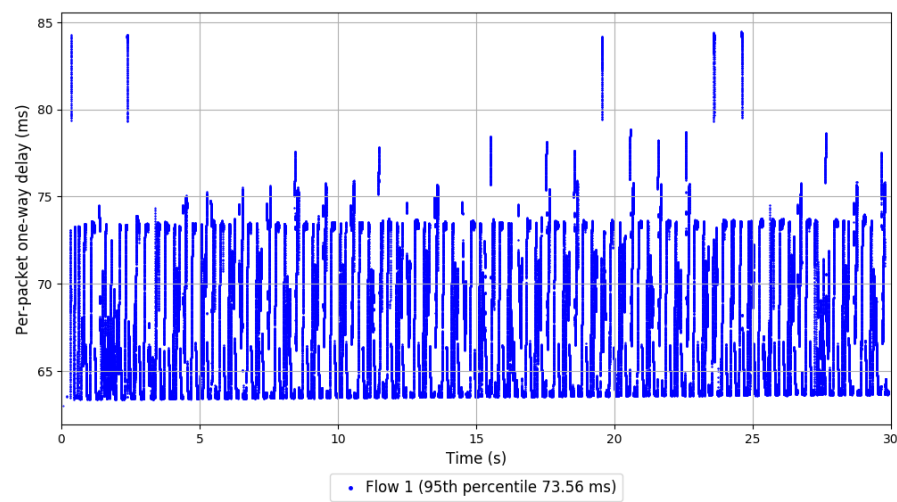
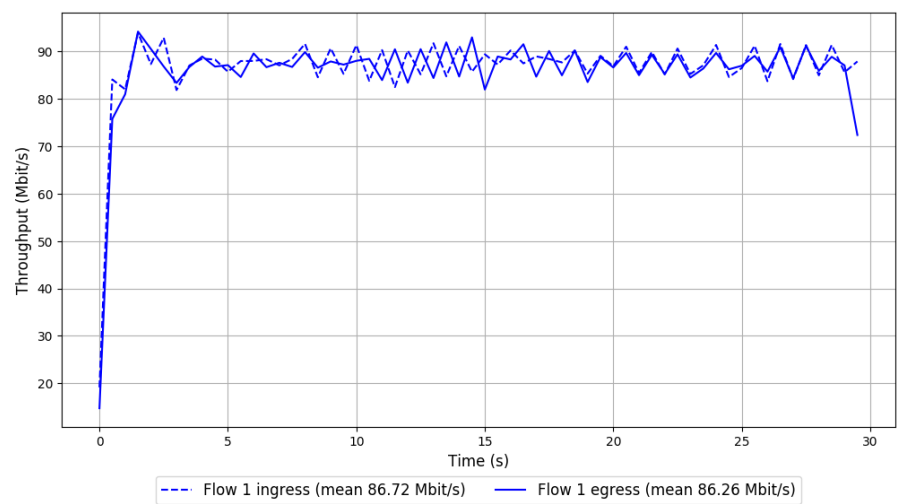


Run 3: Statistics of TaoVA-100x

Start at: 2018-03-14 21:45:03
End at: 2018-03-14 21:45:33
Local clock offset: -10.164 ms
Remote clock offset: -0.459 ms

Below is generated by plot.py at 2018-03-15 04:52:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.26 Mbit/s
95th percentile per-packet one-way delay: 73.563 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 86.26 Mbit/s
95th percentile per-packet one-way delay: 73.563 ms
Loss rate: 0.96%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-03-14 22:08:21

End at: 2018-03-14 22:08:51

Local clock offset: 1.757 ms

Remote clock offset: -1.499 ms

Below is generated by plot.py at 2018-03-15 04:52:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.39 Mbit/s

95th percentile per-packet one-way delay: 74.285 ms

Loss rate: 1.06%

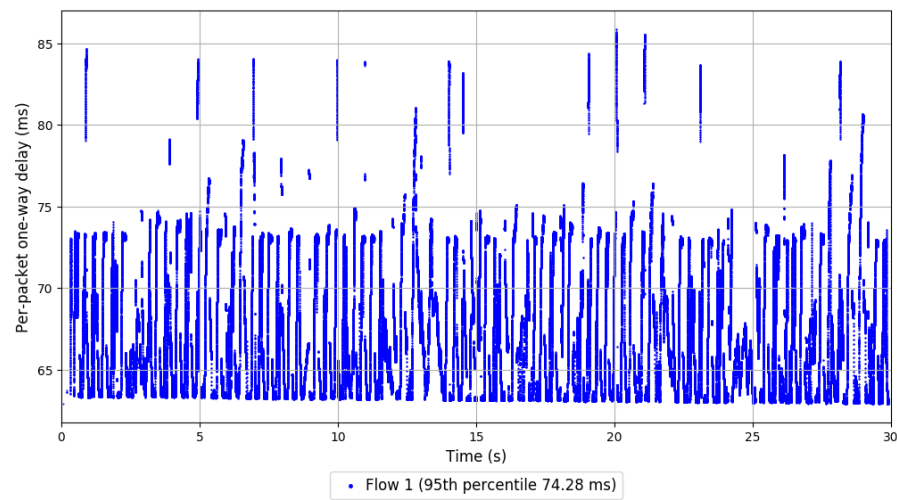
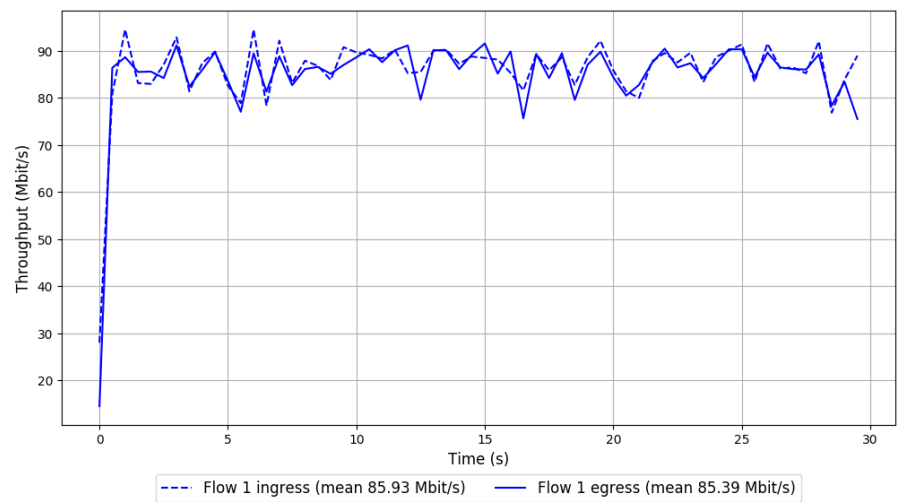
-- Flow 1:

Average throughput: 85.39 Mbit/s

95th percentile per-packet one-way delay: 74.285 ms

Loss rate: 1.06%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-03-14 22:31:45

End at: 2018-03-14 22:32:15

Local clock offset: 0.532 ms

Remote clock offset: -8.368 ms

Below is generated by plot.py at 2018-03-15 04:52:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.02 Mbit/s

95th percentile per-packet one-way delay: 72.924 ms

Loss rate: 1.14%

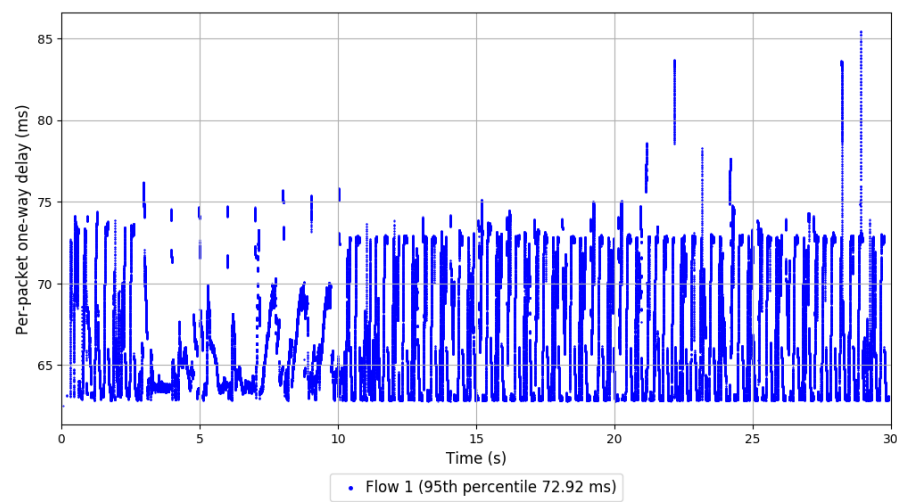
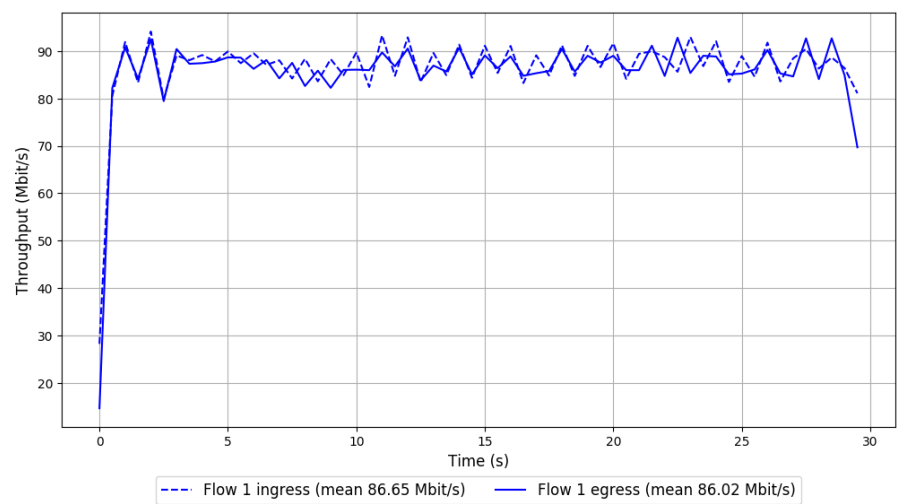
-- Flow 1:

Average throughput: 86.02 Mbit/s

95th percentile per-packet one-way delay: 72.924 ms

Loss rate: 1.14%

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

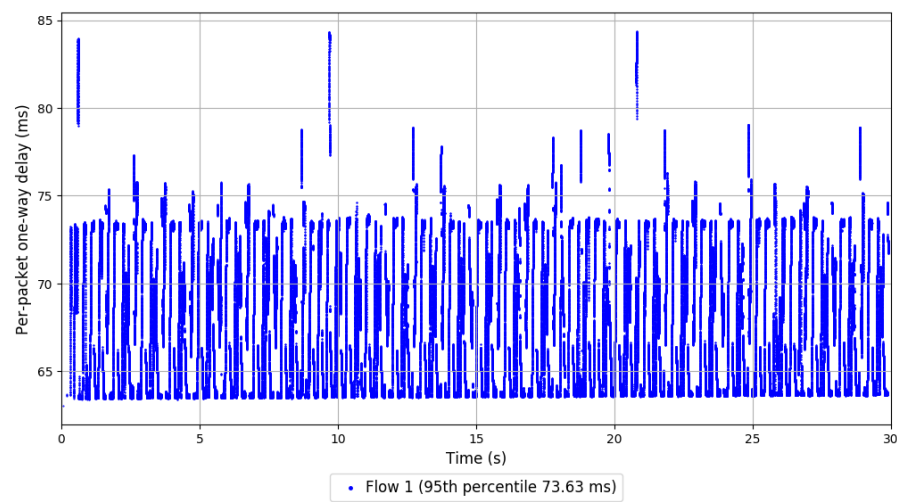
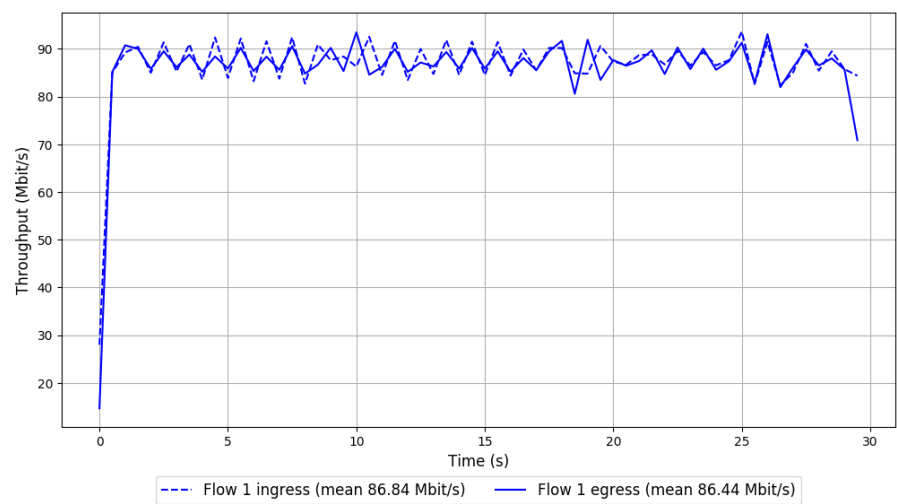


Run 6: Statistics of TaoVA-100x

Start at: 2018-03-14 22:55:03
End at: 2018-03-14 22:55:33
Local clock offset: -2.913 ms
Remote clock offset: -1.149 ms

Below is generated by plot.py at 2018-03-15 04:52:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.44 Mbit/s
95th percentile per-packet one-way delay: 73.632 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 86.44 Mbit/s
95th percentile per-packet one-way delay: 73.632 ms
Loss rate: 0.89%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-03-14 23:18:21

End at: 2018-03-14 23:18:51

Local clock offset: 2.392 ms

Remote clock offset: 0.745 ms

Below is generated by plot.py at 2018-03-15 04:52:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.21 Mbit/s

95th percentile per-packet one-way delay: 73.337 ms

Loss rate: 1.02%

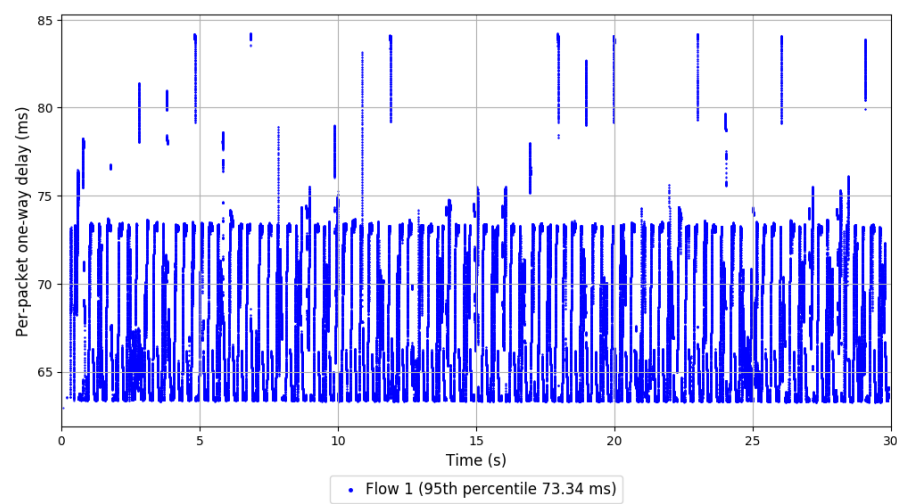
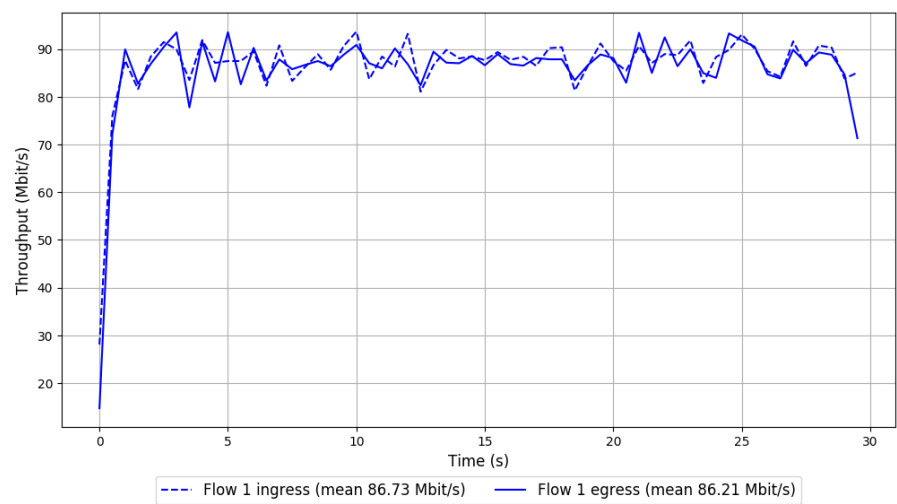
-- Flow 1:

Average throughput: 86.21 Mbit/s

95th percentile per-packet one-way delay: 73.337 ms

Loss rate: 1.02%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-03-14 23:41:40

End at: 2018-03-14 23:42:10

Local clock offset: 3.919 ms

Remote clock offset: 0.127 ms

Below is generated by plot.py at 2018-03-15 04:53:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.45 Mbit/s

95th percentile per-packet one-way delay: 73.530 ms

Loss rate: 1.42%

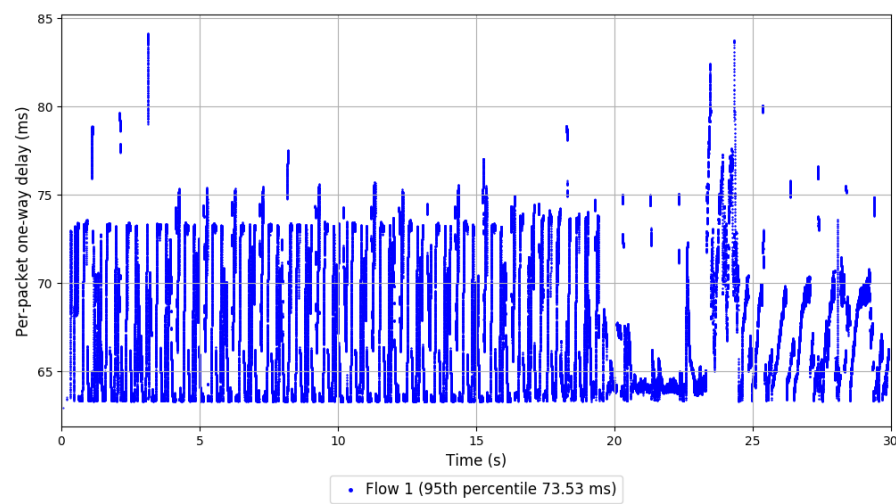
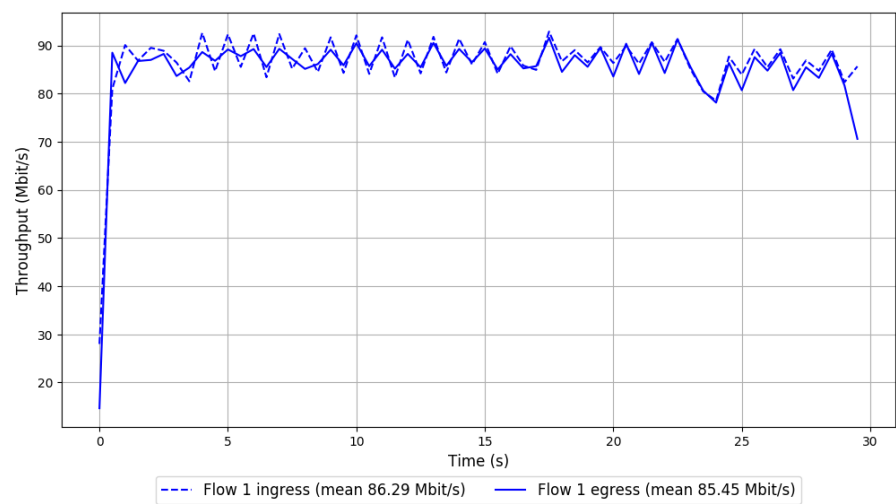
-- Flow 1:

Average throughput: 85.45 Mbit/s

95th percentile per-packet one-way delay: 73.530 ms

Loss rate: 1.42%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-03-15 00:04:57

End at: 2018-03-15 00:05:27

Local clock offset: 5.011 ms

Remote clock offset: 0.12 ms

Below is generated by plot.py at 2018-03-15 04:55:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.51 Mbit/s

95th percentile per-packet one-way delay: 75.764 ms

Loss rate: 1.29%

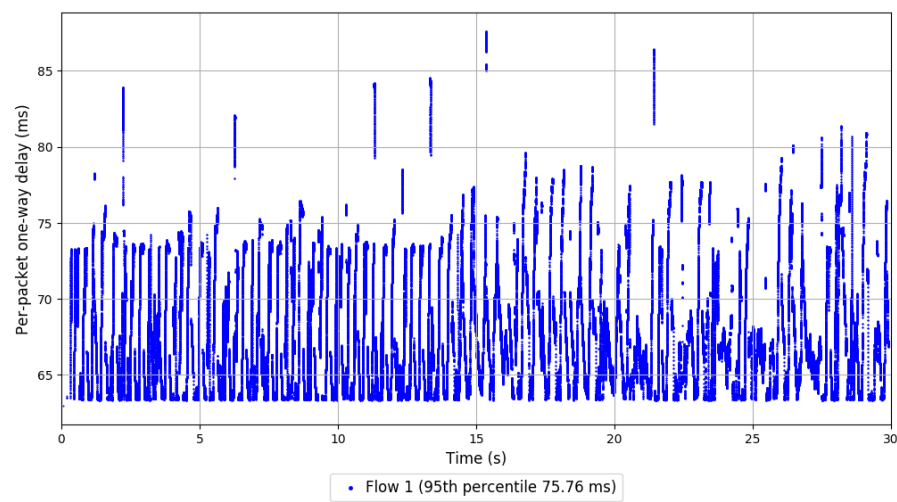
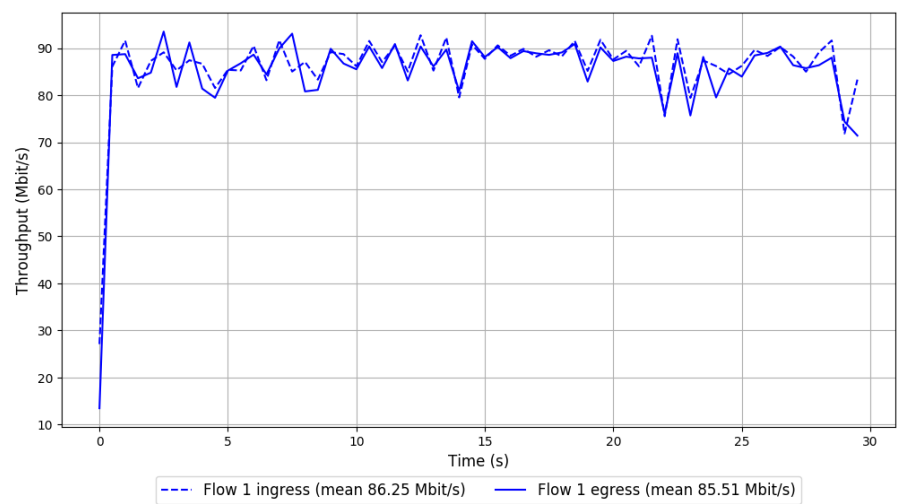
-- Flow 1:

Average throughput: 85.51 Mbit/s

95th percentile per-packet one-way delay: 75.764 ms

Loss rate: 1.29%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-03-15 00:29:01

End at: 2018-03-15 00:29:31

Local clock offset: 5.706 ms

Remote clock offset: 6.402 ms

Below is generated by plot.py at 2018-03-15 04:55:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.75 Mbit/s

95th percentile per-packet one-way delay: 73.846 ms

Loss rate: 1.23%

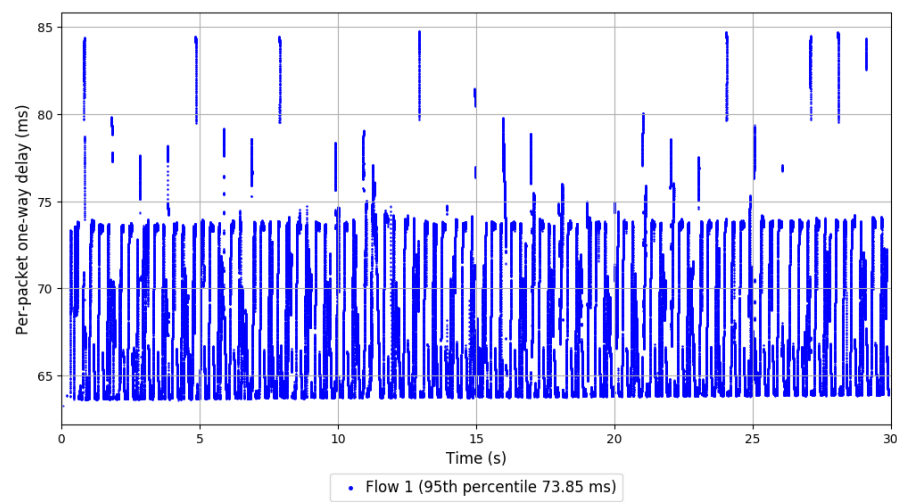
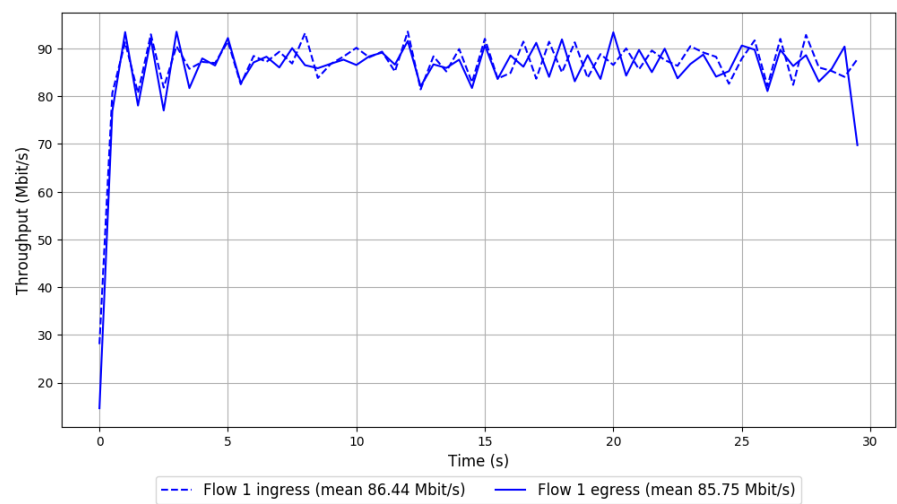
-- Flow 1:

Average throughput: 85.75 Mbit/s

95th percentile per-packet one-way delay: 73.846 ms

Loss rate: 1.23%

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

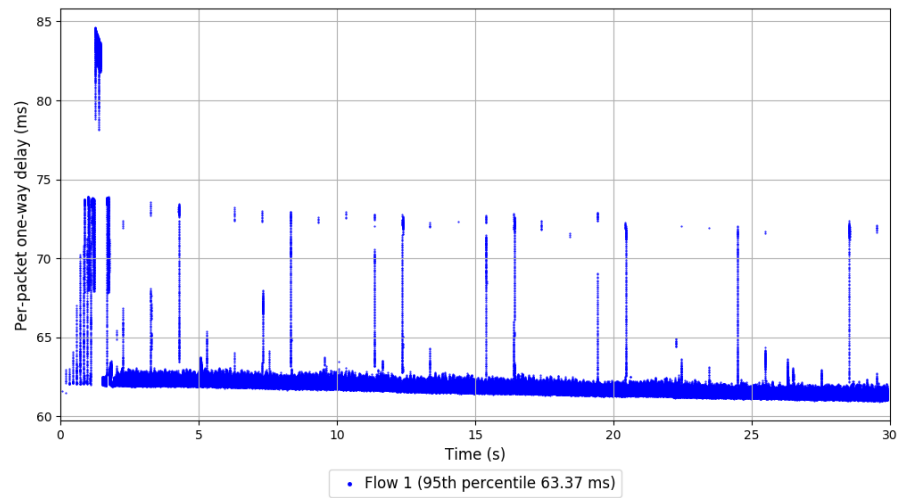
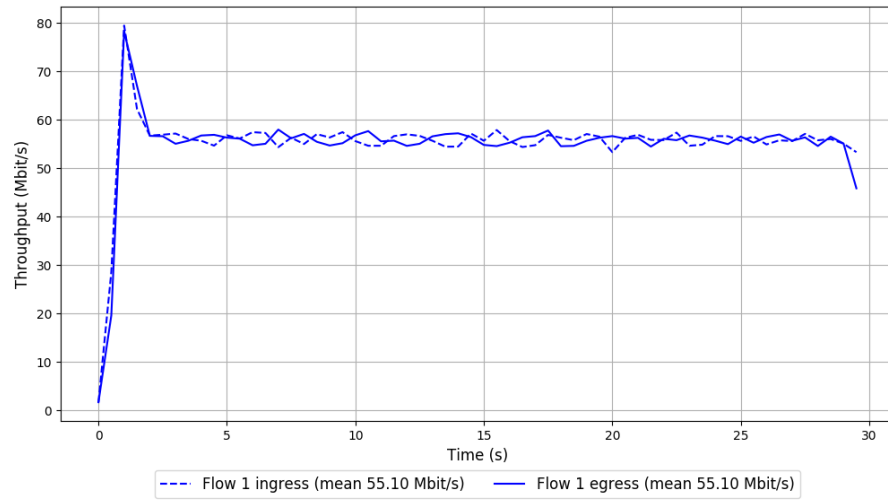


Run 1: Statistics of TCP Vegas

Start at: 2018-03-14 20:51:40
End at: 2018-03-14 20:52:10
Local clock offset: -6.195 ms
Remote clock offset: -0.644 ms

Below is generated by plot.py at 2018-03-15 04:55:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 55.10 Mbit/s
95th percentile per-packet one-way delay: 63.369 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 55.10 Mbit/s
95th percentile per-packet one-way delay: 63.369 ms
Loss rate: 0.44%

Run 1: Report of TCP Vegas — Data Link

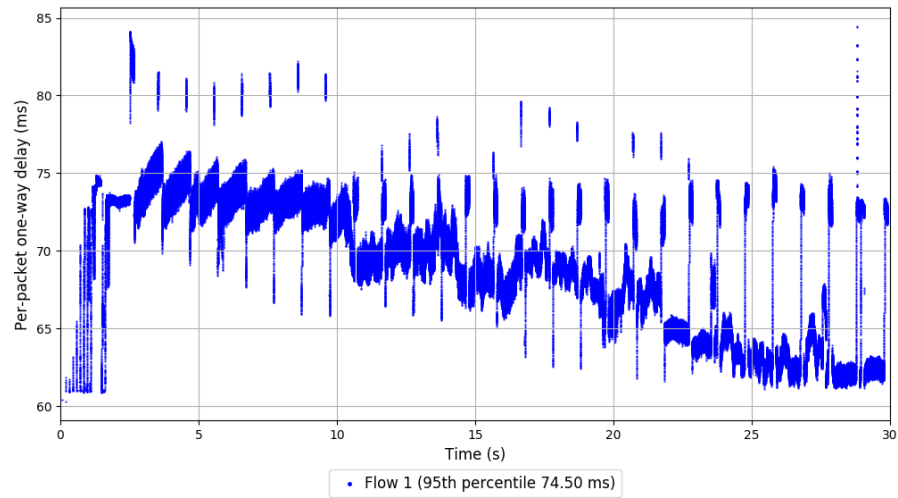
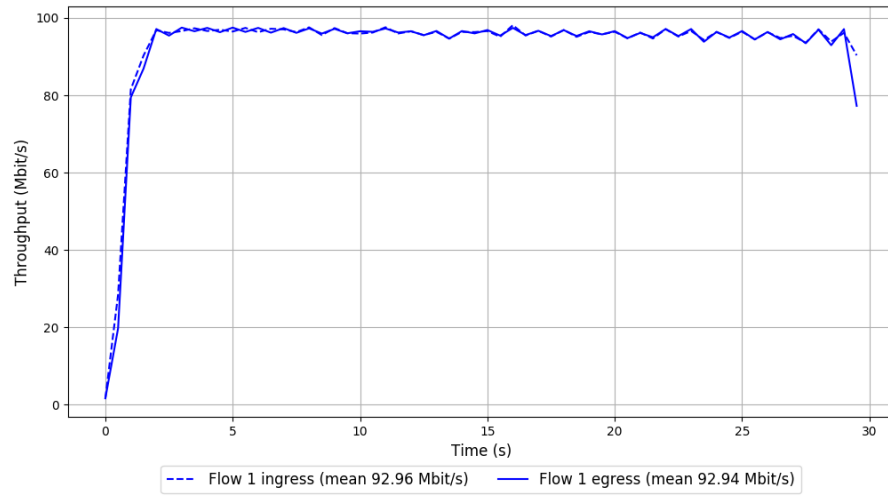


Run 2: Statistics of TCP Vegas

Start at: 2018-03-14 21:14:57
End at: 2018-03-14 21:15:27
Local clock offset: -12.43 ms
Remote clock offset: -3.748 ms

Below is generated by plot.py at 2018-03-15 04:55:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.94 Mbit/s
95th percentile per-packet one-way delay: 74.496 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 92.94 Mbit/s
95th percentile per-packet one-way delay: 74.496 ms
Loss rate: 0.45%

Run 2: Report of TCP Vegas — Data Link

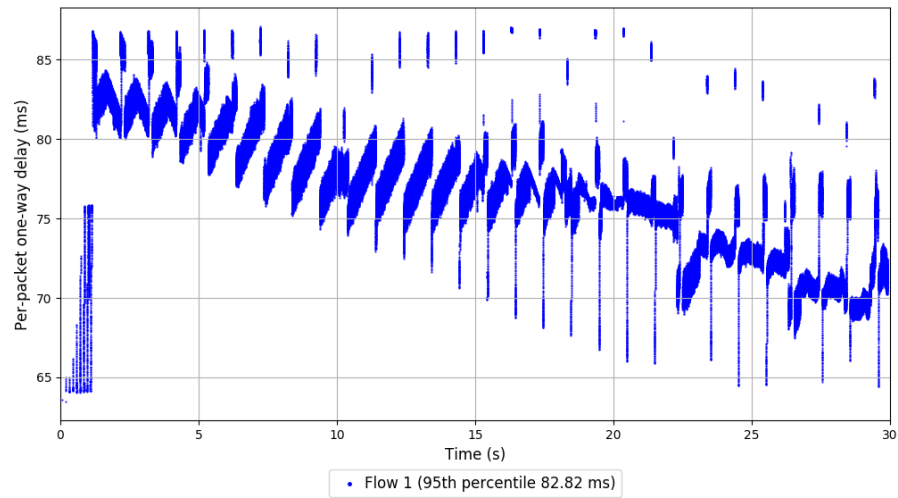
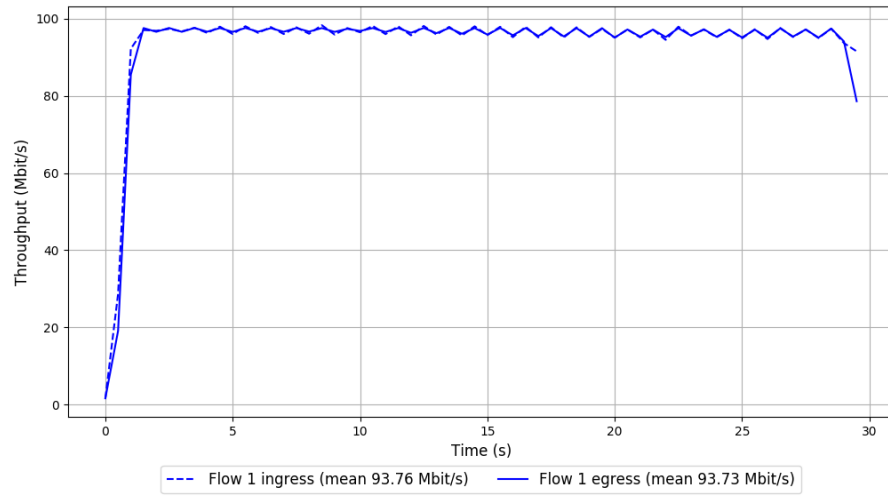


Run 3: Statistics of TCP Vegas

Start at: 2018-03-14 21:38:53
End at: 2018-03-14 21:39:23
Local clock offset: -7.601 ms
Remote clock offset: -1.639 ms

Below is generated by plot.py at 2018-03-15 04:55:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.73 Mbit/s
95th percentile per-packet one-way delay: 82.817 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 93.73 Mbit/s
95th percentile per-packet one-way delay: 82.817 ms
Loss rate: 0.46%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-03-14 22:02:15

End at: 2018-03-14 22:02:45

Local clock offset: -2.751 ms

Remote clock offset: 1.188 ms

Below is generated by plot.py at 2018-03-15 04:55:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.82 Mbit/s

95th percentile per-packet one-way delay: 65.190 ms

Loss rate: 0.44%

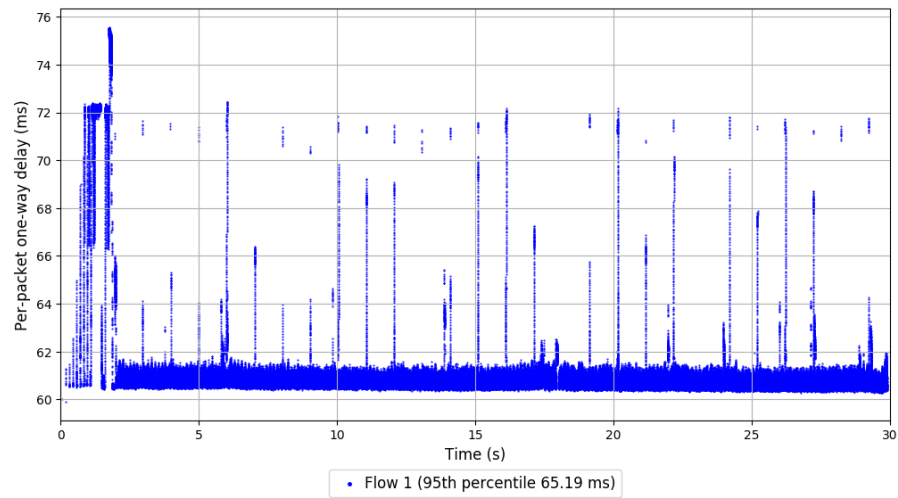
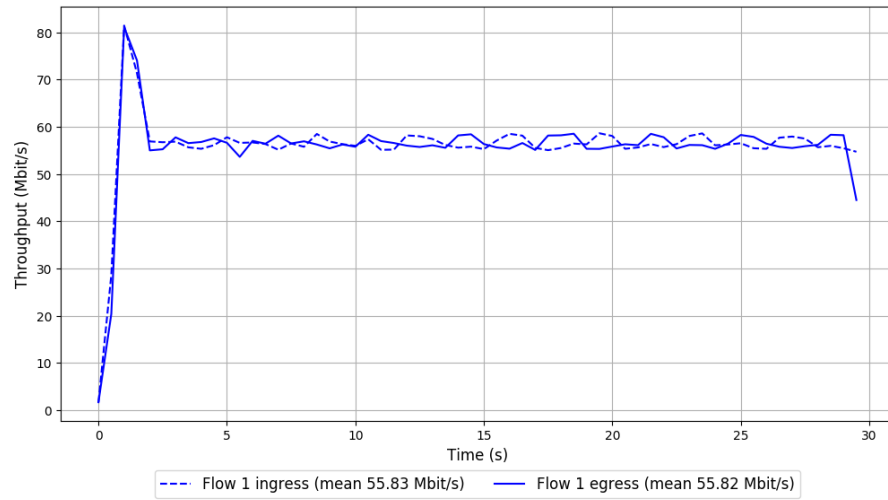
-- Flow 1:

Average throughput: 55.82 Mbit/s

95th percentile per-packet one-way delay: 65.190 ms

Loss rate: 0.44%

Run 4: Report of TCP Vegas — Data Link

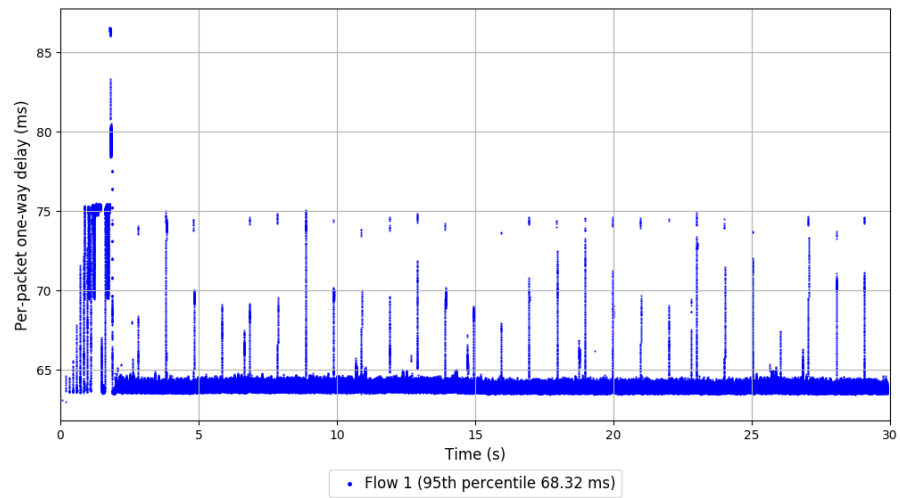
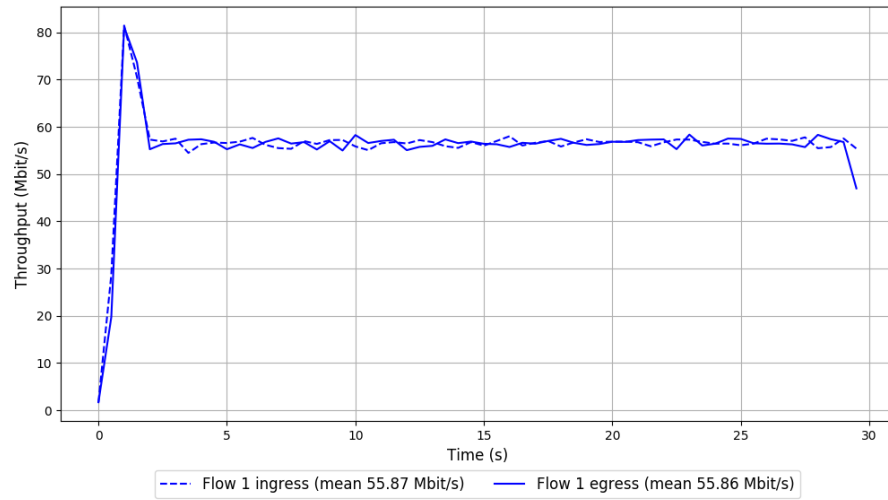


Run 5: Statistics of TCP Vegas

Start at: 2018-03-14 22:25:40
End at: 2018-03-14 22:26:10
Local clock offset: 1.105 ms
Remote clock offset: -7.727 ms

Below is generated by plot.py at 2018-03-15 04:55:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 55.86 Mbit/s
95th percentile per-packet one-way delay: 68.316 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 55.86 Mbit/s
95th percentile per-packet one-way delay: 68.316 ms
Loss rate: 0.44%

Run 5: Report of TCP Vegas — Data Link

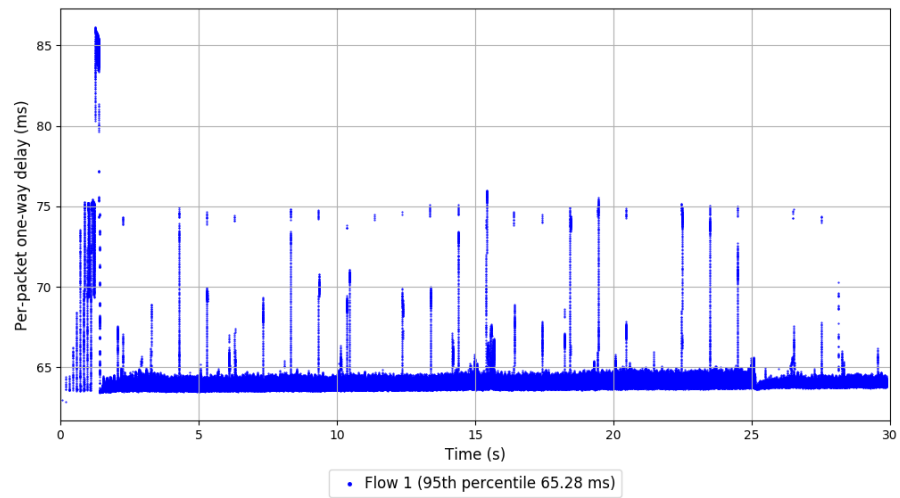
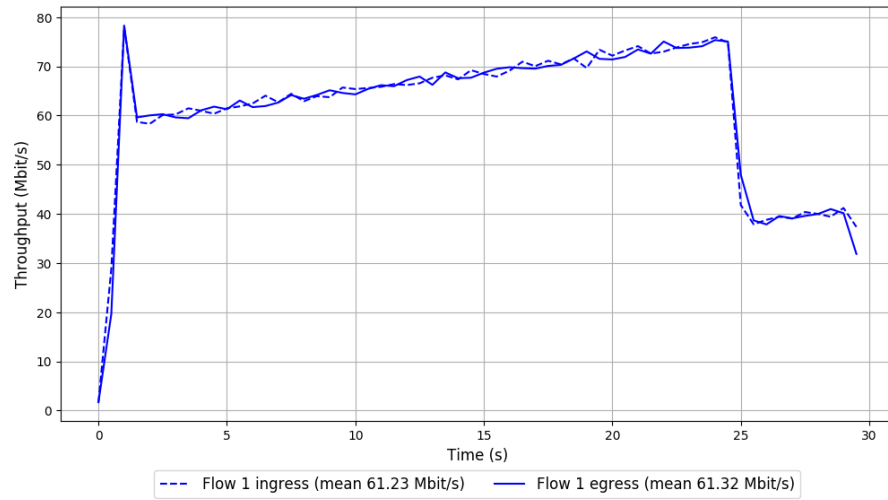


Run 6: Statistics of TCP Vegas

Start at: 2018-03-14 22:48:58
End at: 2018-03-14 22:49:28
Local clock offset: -1.866 ms
Remote clock offset: -2.997 ms

Below is generated by plot.py at 2018-03-15 04:55:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 61.32 Mbit/s
95th percentile per-packet one-way delay: 65.283 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 61.32 Mbit/s
95th percentile per-packet one-way delay: 65.283 ms
Loss rate: 0.29%

Run 6: Report of TCP Vegas — Data Link

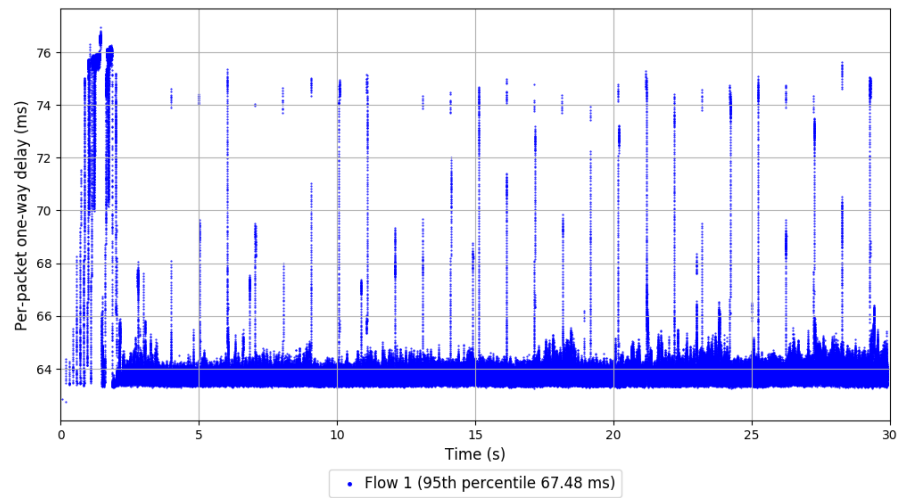
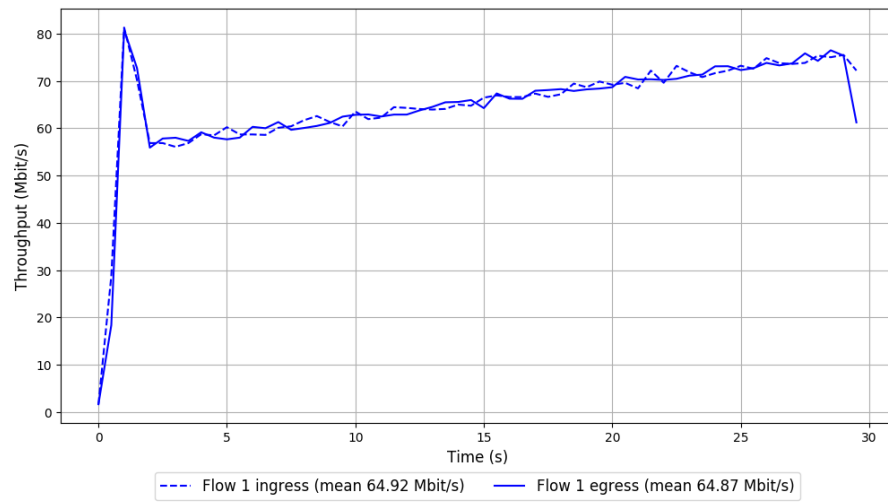


Run 7: Statistics of TCP Vegas

Start at: 2018-03-14 23:12:15
End at: 2018-03-14 23:12:45
Local clock offset: 2.011 ms
Remote clock offset: 1.702 ms

Below is generated by plot.py at 2018-03-15 04:55:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 64.87 Mbit/s
95th percentile per-packet one-way delay: 67.481 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 64.87 Mbit/s
95th percentile per-packet one-way delay: 67.481 ms
Loss rate: 0.50%

Run 7: Report of TCP Vegas — Data Link

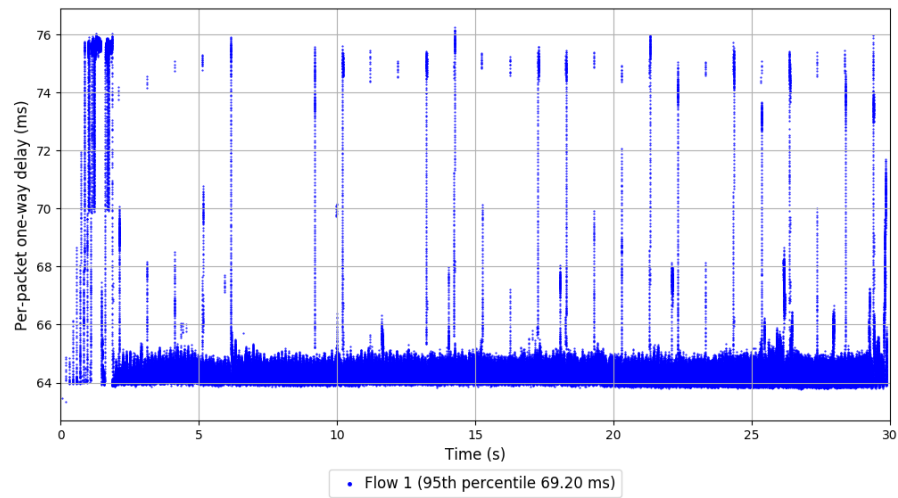
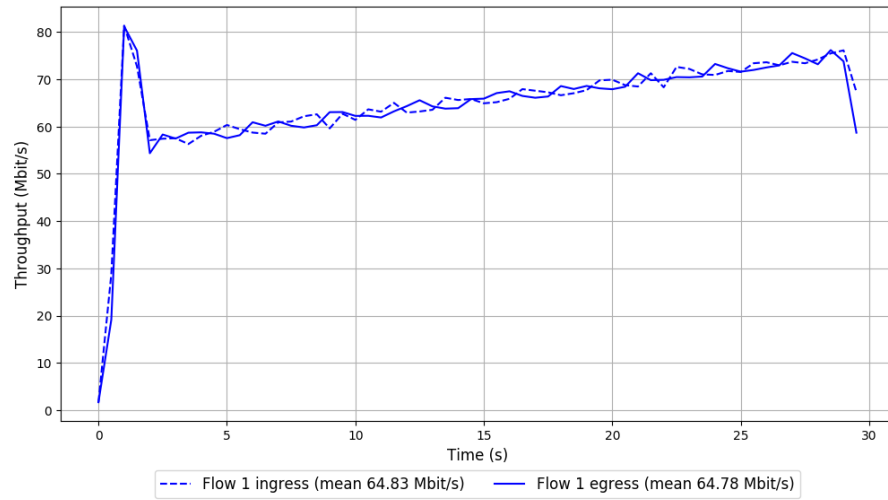


Run 8: Statistics of TCP Vegas

Start at: 2018-03-14 23:35:34
End at: 2018-03-14 23:36:04
Local clock offset: 3.012 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-03-15 04:55:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 64.78 Mbit/s
95th percentile per-packet one-way delay: 69.205 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 64.78 Mbit/s
95th percentile per-packet one-way delay: 69.205 ms
Loss rate: 0.51%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-03-14 23:58:52

End at: 2018-03-14 23:59:22

Local clock offset: 4.994 ms

Remote clock offset: 0.112 ms

Below is generated by plot.py at 2018-03-15 04:55:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.92 Mbit/s

95th percentile per-packet one-way delay: 68.345 ms

Loss rate: 0.44%

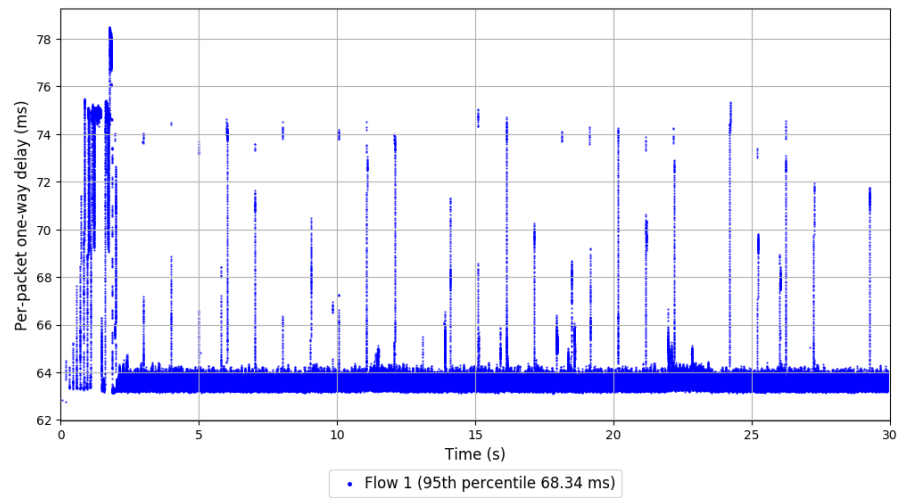
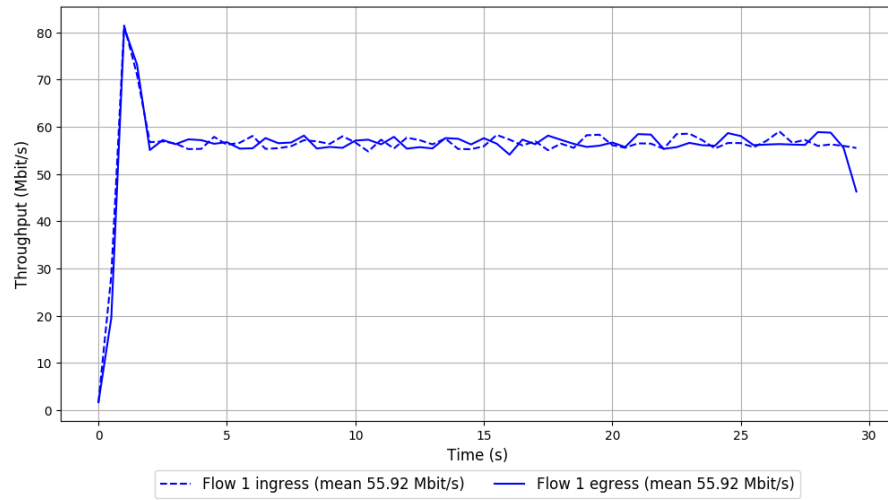
-- Flow 1:

Average throughput: 55.92 Mbit/s

95th percentile per-packet one-way delay: 68.345 ms

Loss rate: 0.44%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

/home/ubuntu/pantheon_data/2018-03-14T20-47-China-to-AWS-Korea-10-runs/vegas_stats_run10.log

Run 10: Report of TCP Vegas — Data Link

Figure is missing

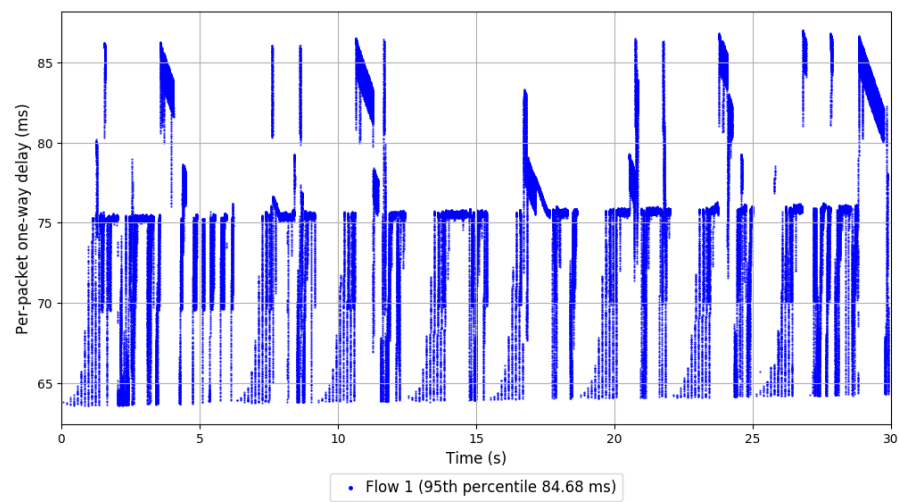
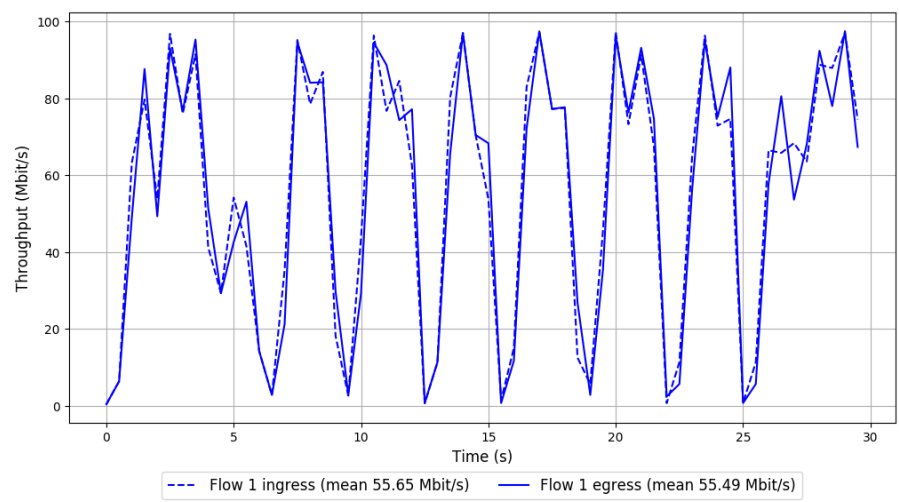
Figure is missing

Run 1: Statistics of Verus

Start at: 2018-03-14 20:49:13
End at: 2018-03-14 20:49:43
Local clock offset: -4.139 ms
Remote clock offset: -0.744 ms

Below is generated by plot.py at 2018-03-15 04:55:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 55.49 Mbit/s
95th percentile per-packet one-way delay: 84.676 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 55.49 Mbit/s
95th percentile per-packet one-way delay: 84.676 ms
Loss rate: 0.70%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-03-14 21:12:29

End at: 2018-03-14 21:12:59

Local clock offset: -7.924 ms

Remote clock offset: -3.56 ms

Below is generated by plot.py at 2018-03-15 04:55:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.28 Mbit/s

95th percentile per-packet one-way delay: 86.425 ms

Loss rate: 0.43%

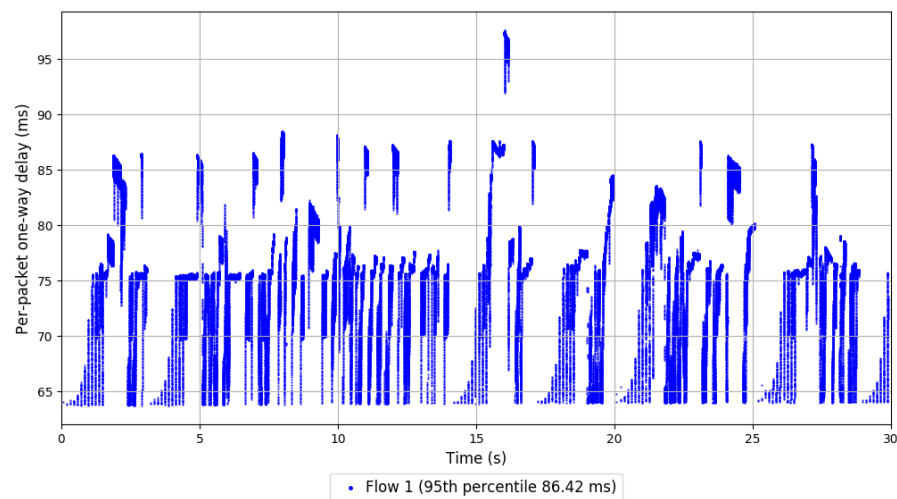
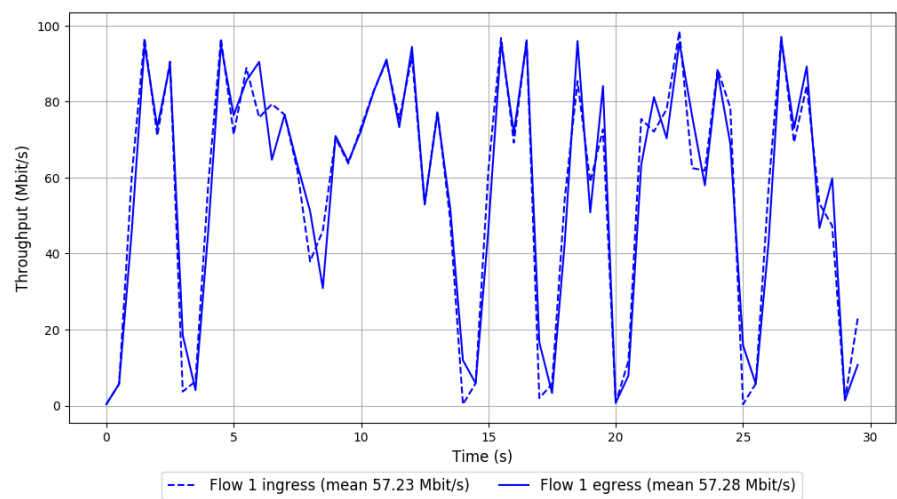
-- Flow 1:

Average throughput: 57.28 Mbit/s

95th percentile per-packet one-way delay: 86.425 ms

Loss rate: 0.43%

Run 2: Report of Verus — Data Link

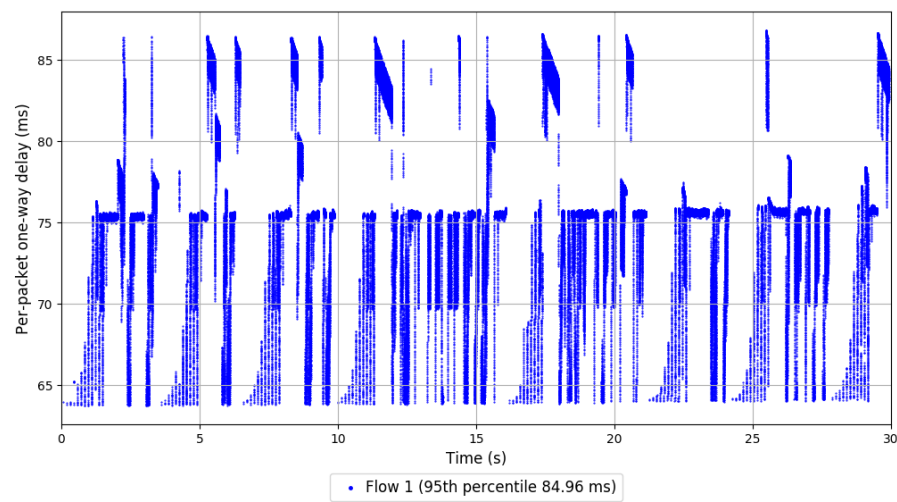
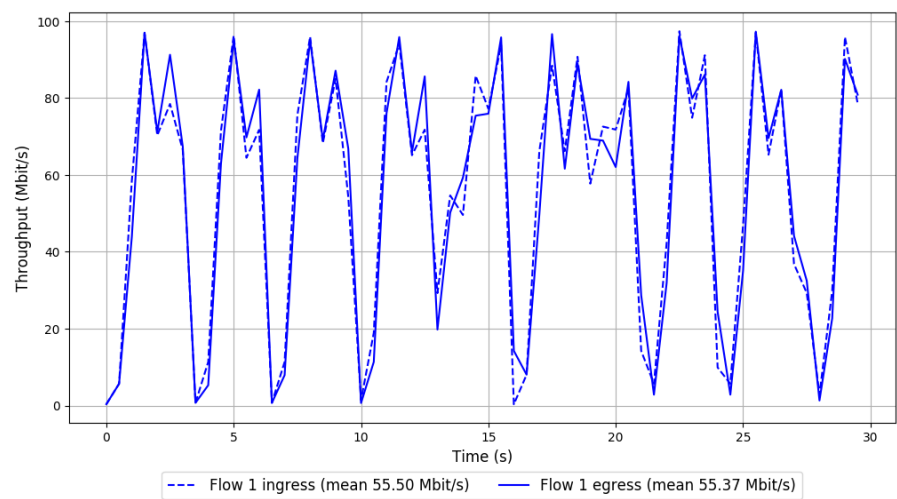


Run 3: Statistics of Verus

Start at: 2018-03-14 21:36:23
End at: 2018-03-14 21:36:53
Local clock offset: -6.801 ms
Remote clock offset: -2.402 ms

Below is generated by plot.py at 2018-03-15 04:55:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 55.37 Mbit/s
95th percentile per-packet one-way delay: 84.959 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 55.37 Mbit/s
95th percentile per-packet one-way delay: 84.959 ms
Loss rate: 0.36%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-03-14 21:59:47

End at: 2018-03-14 22:00:17

Local clock offset: -1.335 ms

Remote clock offset: 1.009 ms

Below is generated by plot.py at 2018-03-15 04:55:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.52 Mbit/s

95th percentile per-packet one-way delay: 84.464 ms

Loss rate: 0.30%

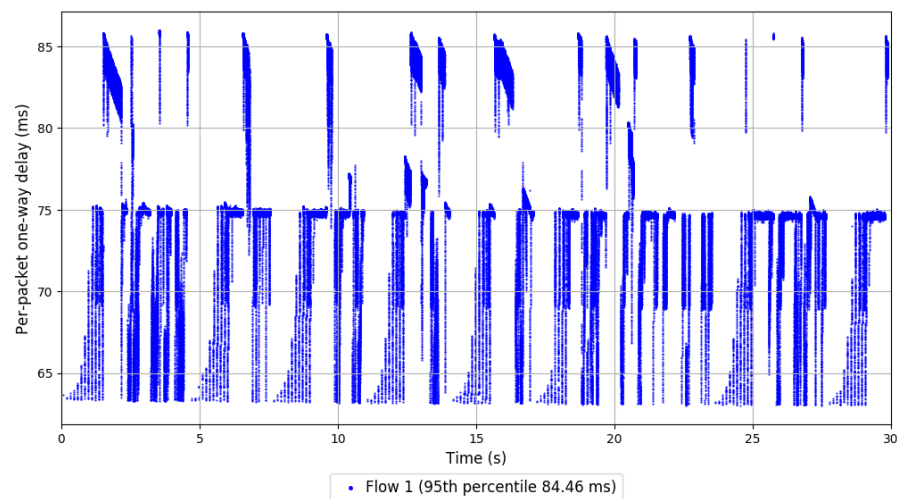
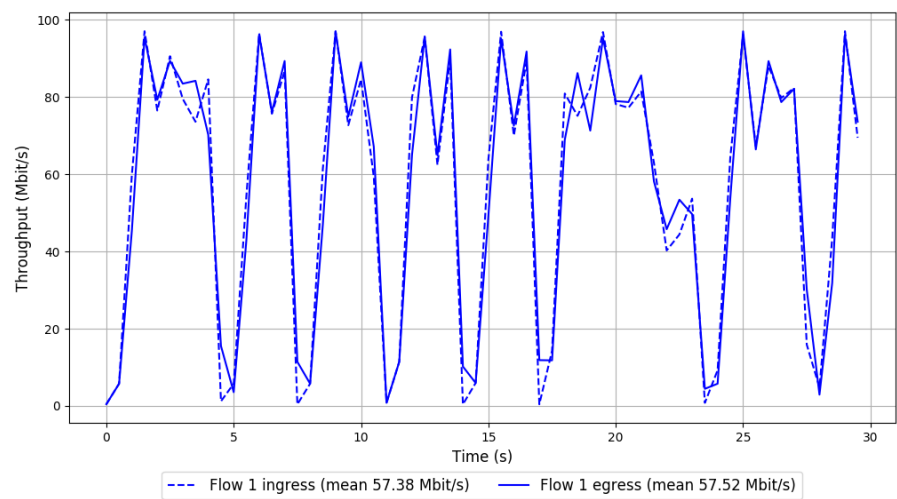
-- Flow 1:

Average throughput: 57.52 Mbit/s

95th percentile per-packet one-way delay: 84.464 ms

Loss rate: 0.30%

Run 4: Report of Verus — Data Link

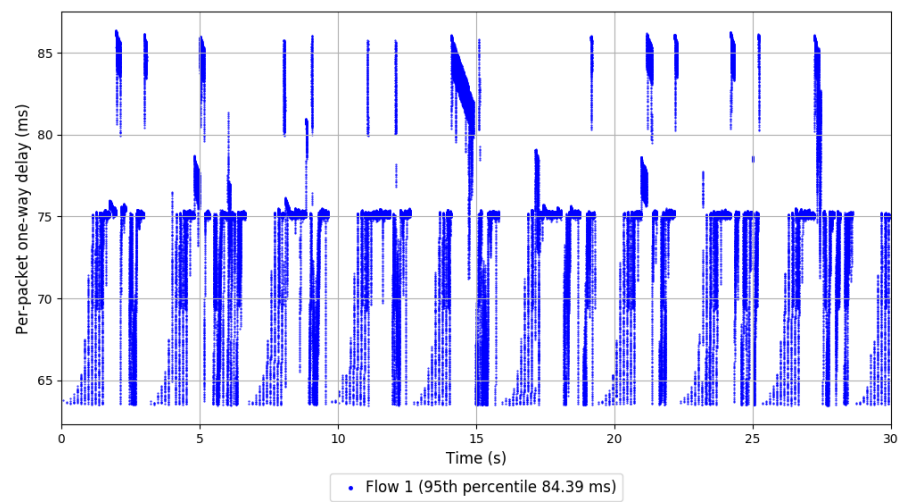
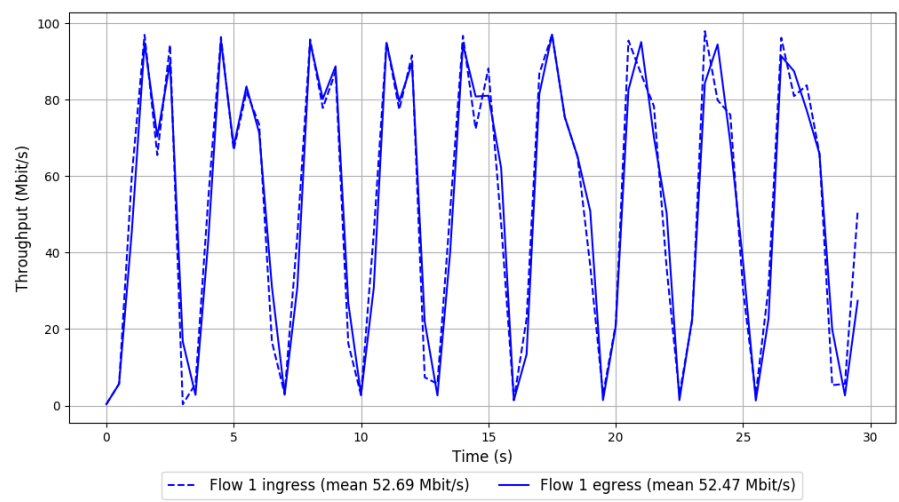


Run 5: Statistics of Verus

Start at: 2018-03-14 22:23:12
End at: 2018-03-14 22:23:42
Local clock offset: 1.268 ms
Remote clock offset: -7.327 ms

Below is generated by plot.py at 2018-03-15 04:55:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 52.47 Mbit/s
95th percentile per-packet one-way delay: 84.385 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 52.47 Mbit/s
95th percentile per-packet one-way delay: 84.385 ms
Loss rate: 0.84%

Run 5: Report of Verus — Data Link

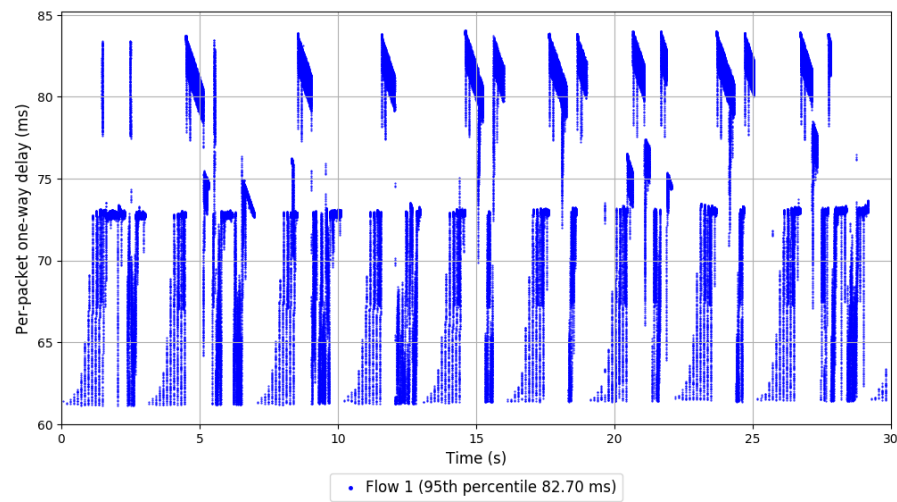
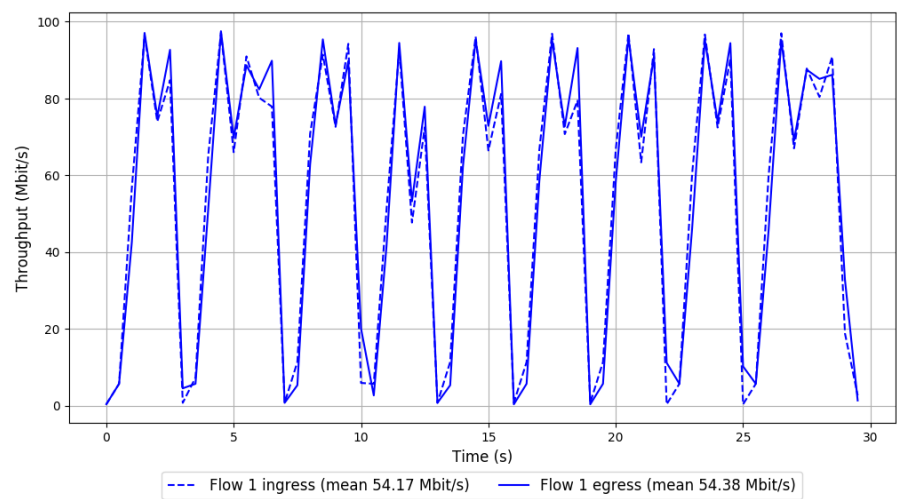


Run 6: Statistics of Verus

Start at: 2018-03-14 22:46:30
End at: 2018-03-14 22:47:01
Local clock offset: -4.262 ms
Remote clock offset: -4.165 ms

Below is generated by plot.py at 2018-03-15 04:55:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 54.38 Mbit/s
95th percentile per-packet one-way delay: 82.698 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 54.38 Mbit/s
95th percentile per-packet one-way delay: 82.698 ms
Loss rate: 0.05%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-03-14 23:09:47

End at: 2018-03-14 23:10:17

Local clock offset: 1.514 ms

Remote clock offset: 1.422 ms

Below is generated by plot.py at 2018-03-15 04:55:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.04 Mbit/s

95th percentile per-packet one-way delay: 86.802 ms

Loss rate: 0.67%

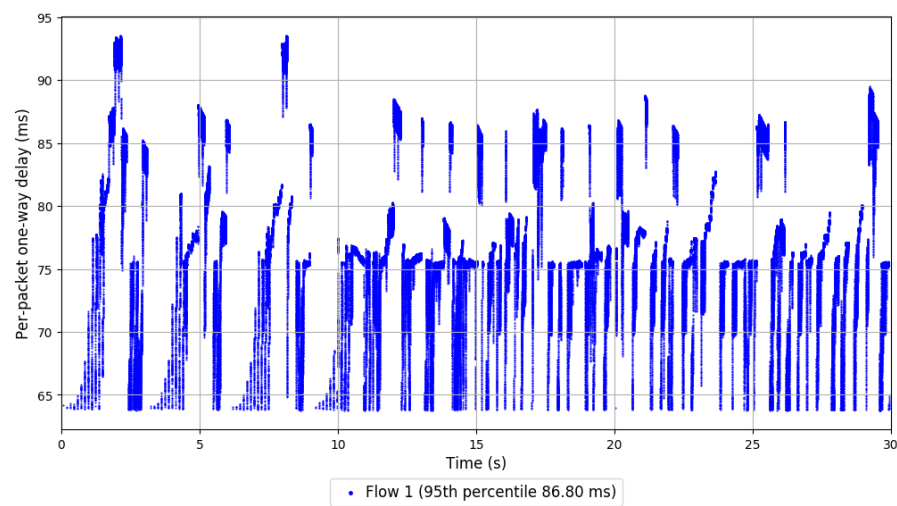
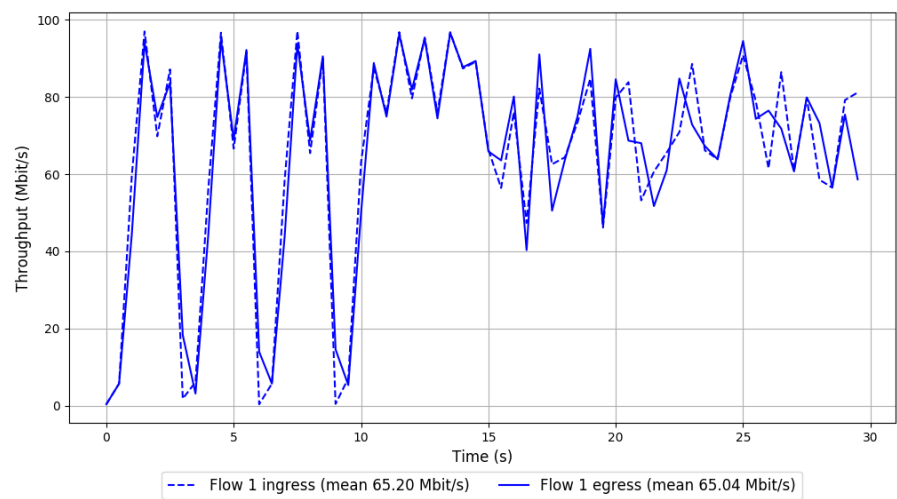
-- Flow 1:

Average throughput: 65.04 Mbit/s

95th percentile per-packet one-way delay: 86.802 ms

Loss rate: 0.67%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-03-14 23:33:06

End at: 2018-03-14 23:33:36

Local clock offset: 2.468 ms

Remote clock offset: 0.028 ms

Below is generated by plot.py at 2018-03-15 04:55:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.99 Mbit/s

95th percentile per-packet one-way delay: 84.633 ms

Loss rate: 0.73%

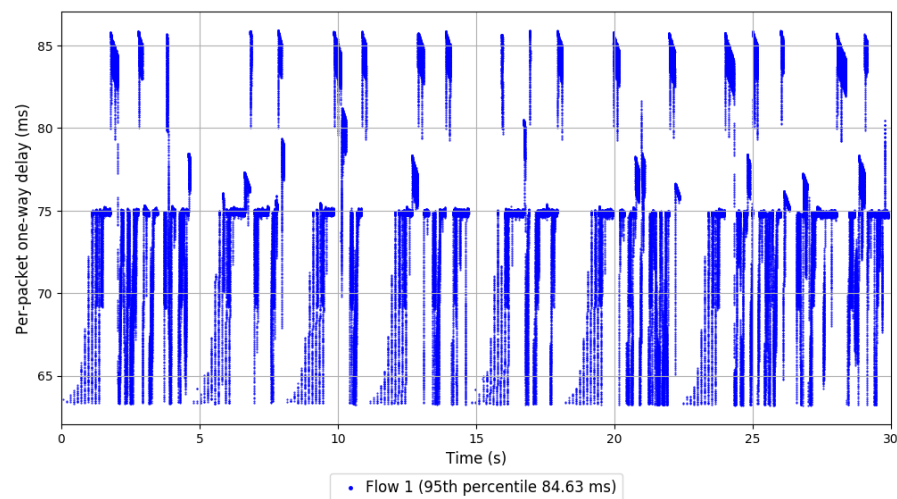
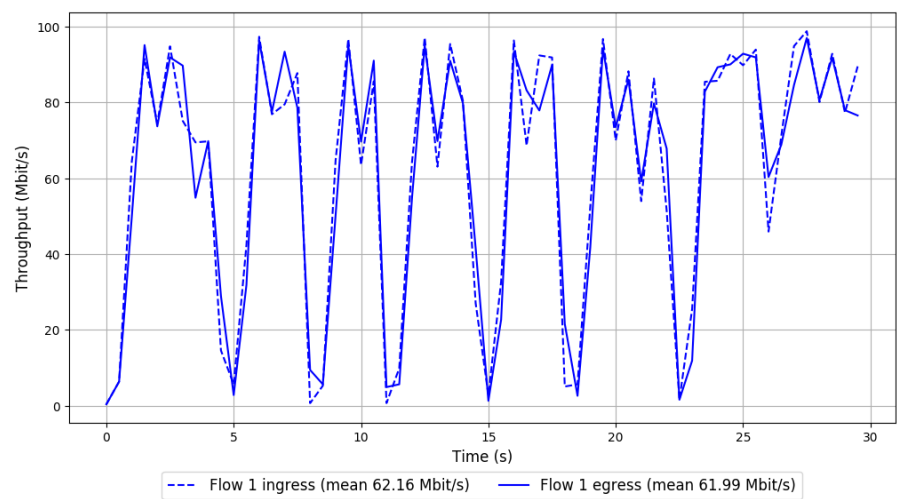
-- Flow 1:

Average throughput: 61.99 Mbit/s

95th percentile per-packet one-way delay: 84.633 ms

Loss rate: 0.73%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-03-14 23:56:24

End at: 2018-03-14 23:56:54

Local clock offset: 4.689 ms

Remote clock offset: 0.118 ms

Below is generated by plot.py at 2018-03-15 04:55:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.65 Mbit/s

95th percentile per-packet one-way delay: 83.745 ms

Loss rate: 0.72%

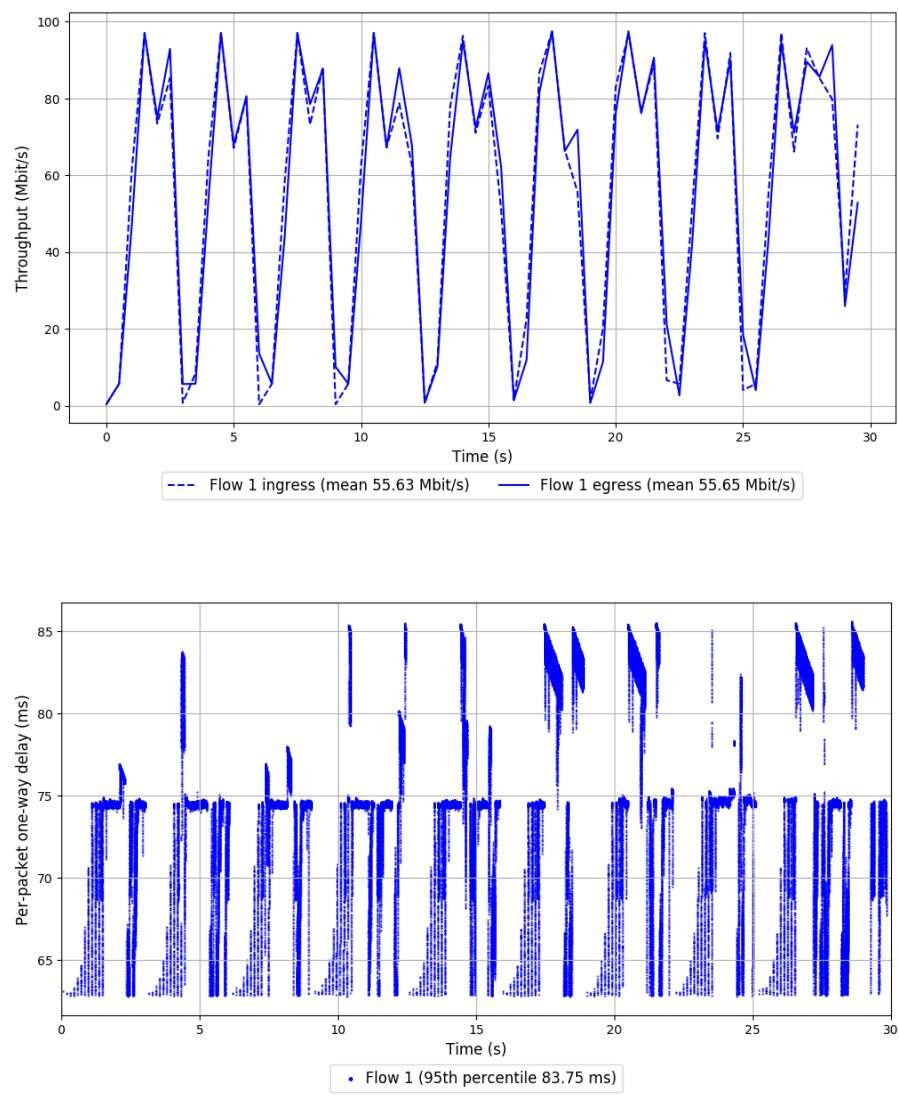
-- Flow 1:

Average throughput: 55.65 Mbit/s

95th percentile per-packet one-way delay: 83.745 ms

Loss rate: 0.72%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-03-15 00:19:40

End at: 2018-03-15 00:20:10

Local clock offset: 5.865 ms

Remote clock offset: 0.446 ms

Below is generated by plot.py at 2018-03-15 04:55:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.18 Mbit/s

95th percentile per-packet one-way delay: 84.525 ms

Loss rate: 0.87%

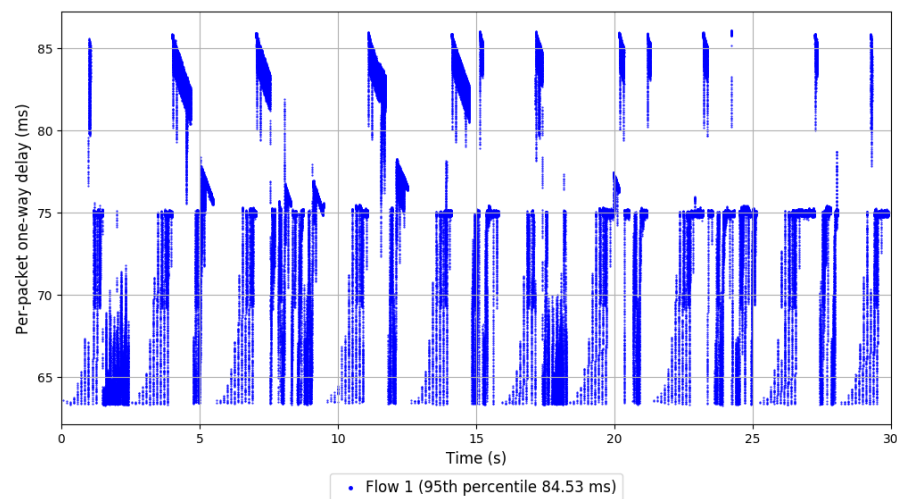
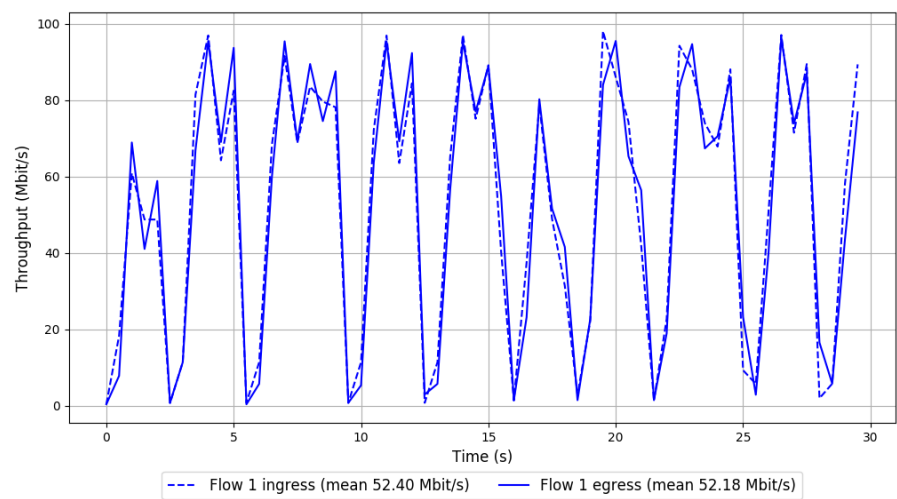
-- Flow 1:

Average throughput: 52.18 Mbit/s

95th percentile per-packet one-way delay: 84.525 ms

Loss rate: 0.87%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-03-14 21:03:54

End at: 2018-03-14 21:04:24

Local clock offset: -3.905 ms

Remote clock offset: -2.5 ms

Below is generated by plot.py at 2018-03-15 04:56:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.52 Mbit/s

95th percentile per-packet one-way delay: 65.429 ms

Loss rate: 0.51%

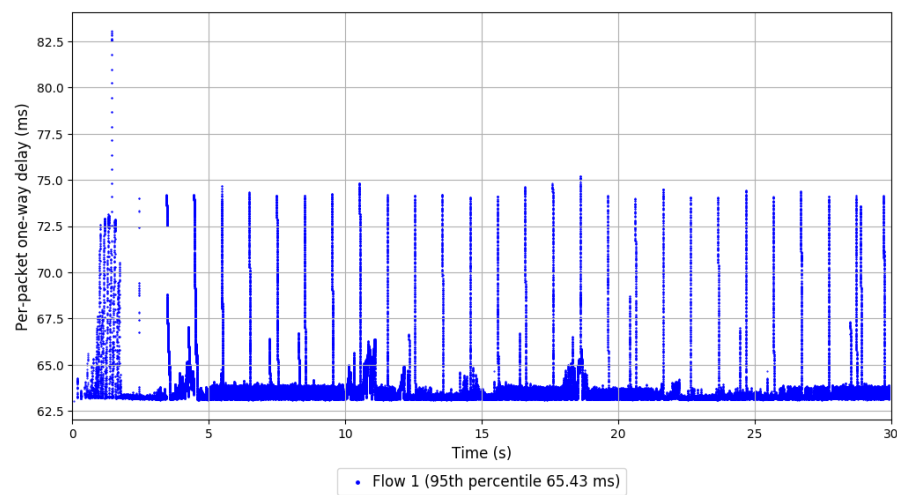
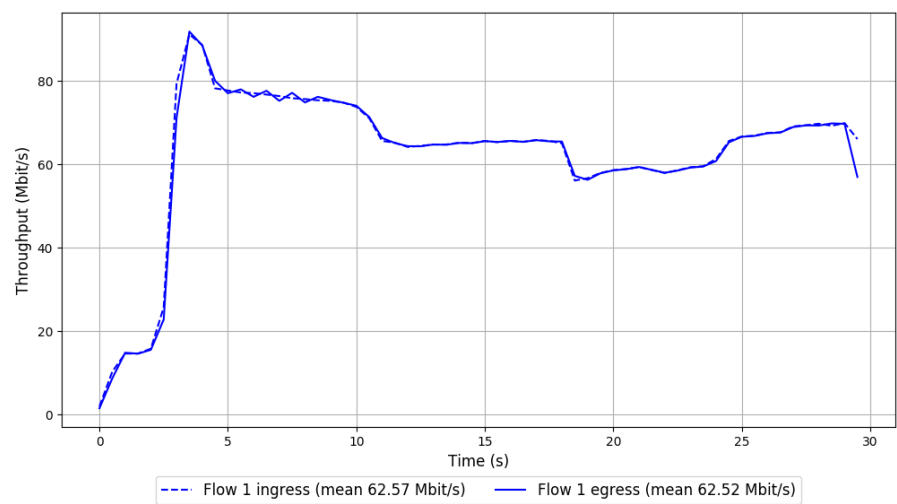
-- Flow 1:

Average throughput: 62.52 Mbit/s

95th percentile per-packet one-way delay: 65.429 ms

Loss rate: 0.51%

Run 1: Report of Copa — Data Link

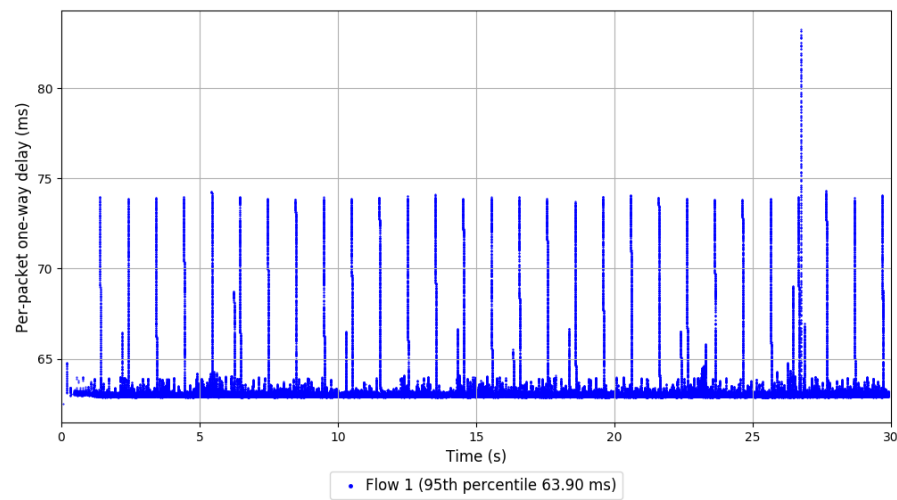
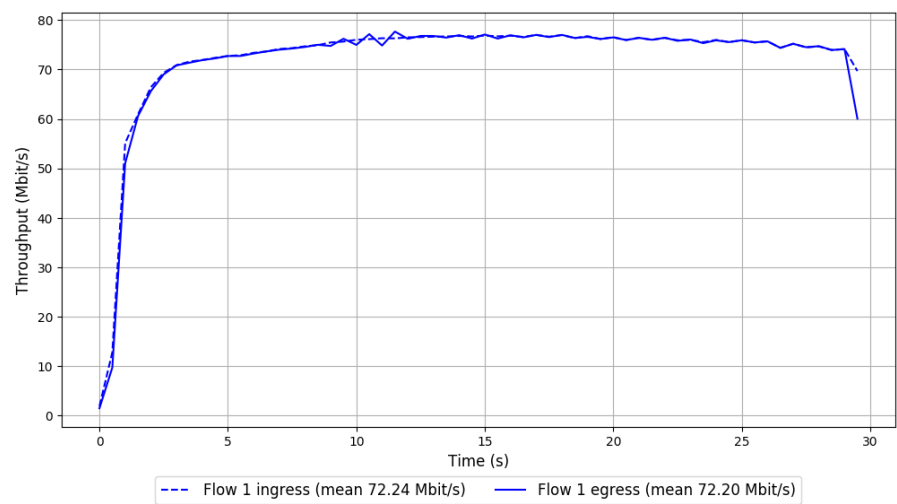


Run 2: Statistics of Copa

Start at: 2018-03-14 21:27:22
End at: 2018-03-14 21:27:52
Local clock offset: -5.498 ms
Remote clock offset: -4.432 ms

Below is generated by plot.py at 2018-03-15 04:57:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.20 Mbit/s
95th percentile per-packet one-way delay: 63.899 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 72.20 Mbit/s
95th percentile per-packet one-way delay: 63.899 ms
Loss rate: 0.49%

Run 2: Report of Copa — Data Link

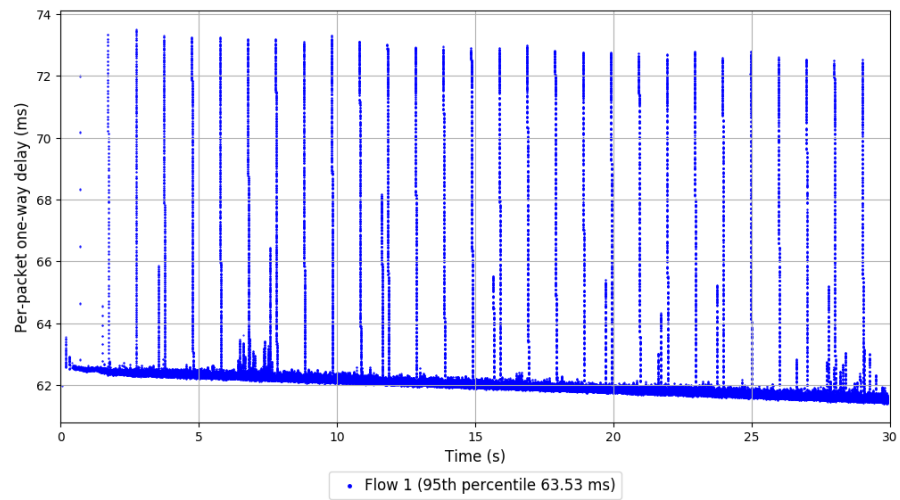
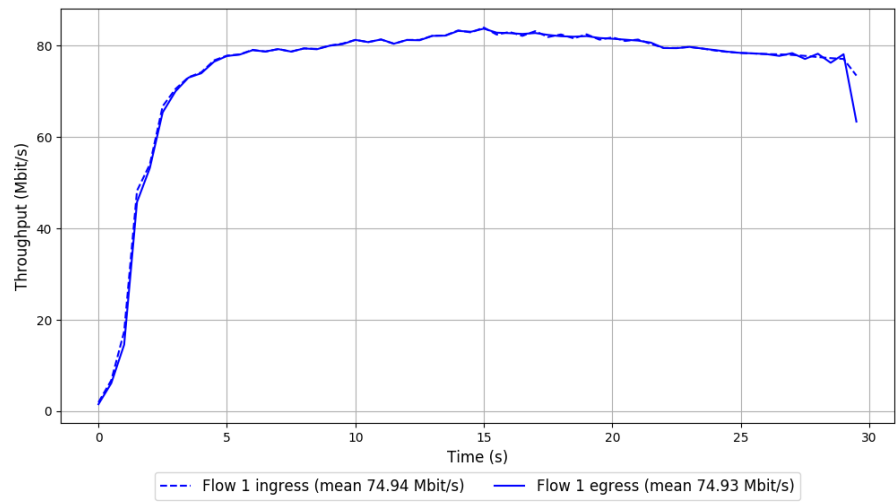


Run 3: Statistics of Copa

Start at: 2018-03-14 21:51:10
End at: 2018-03-14 21:51:40
Local clock offset: -12.884 ms
Remote clock offset: 0.291 ms

Below is generated by plot.py at 2018-03-15 04:57:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.93 Mbit/s
95th percentile per-packet one-way delay: 63.527 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 74.93 Mbit/s
95th percentile per-packet one-way delay: 63.527 ms
Loss rate: 0.44%

Run 3: Report of Copa — Data Link

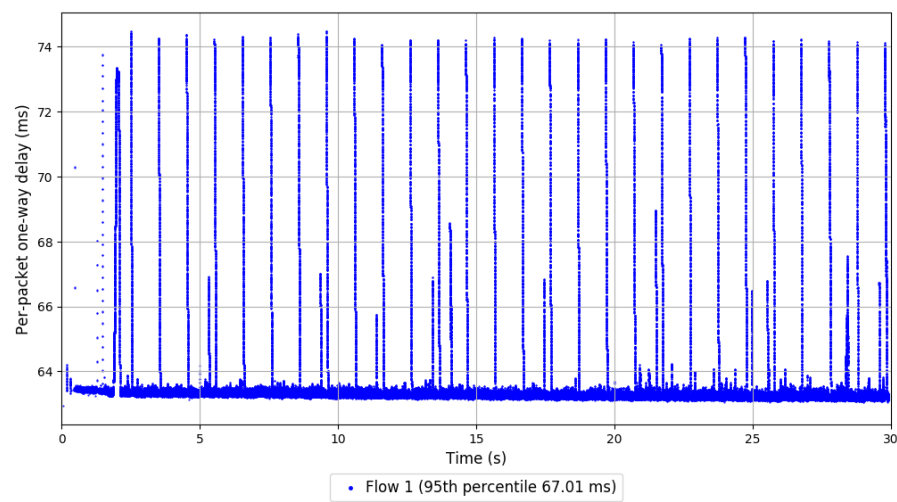
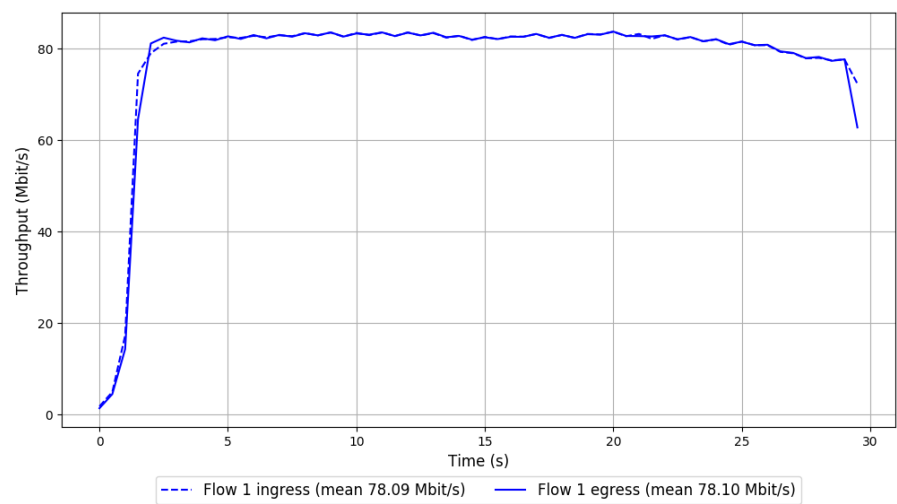


Run 4: Statistics of Copa

Start at: 2018-03-14 22:14:34
End at: 2018-03-14 22:15:05
Local clock offset: 2.012 ms
Remote clock offset: -4.955 ms

Below is generated by plot.py at 2018-03-15 04:57:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.10 Mbit/s
95th percentile per-packet one-way delay: 67.013 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 78.10 Mbit/s
95th percentile per-packet one-way delay: 67.013 ms
Loss rate: 0.41%

Run 4: Report of Copa — Data Link

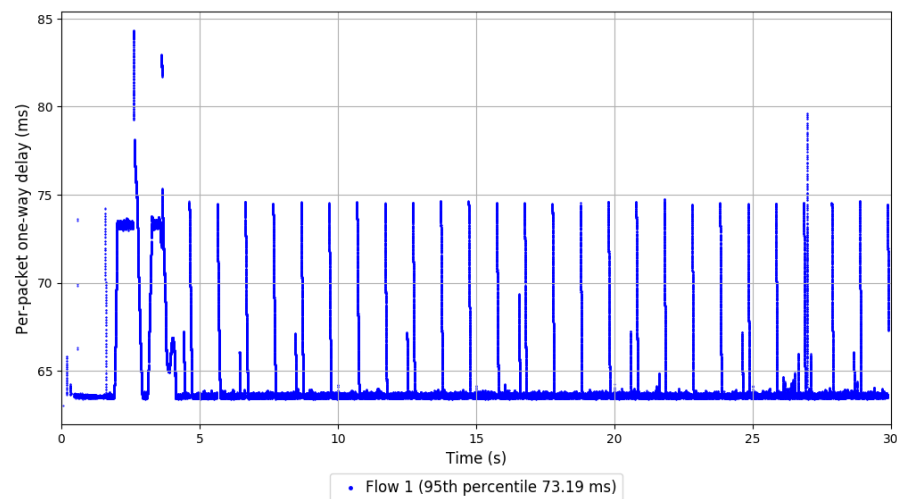
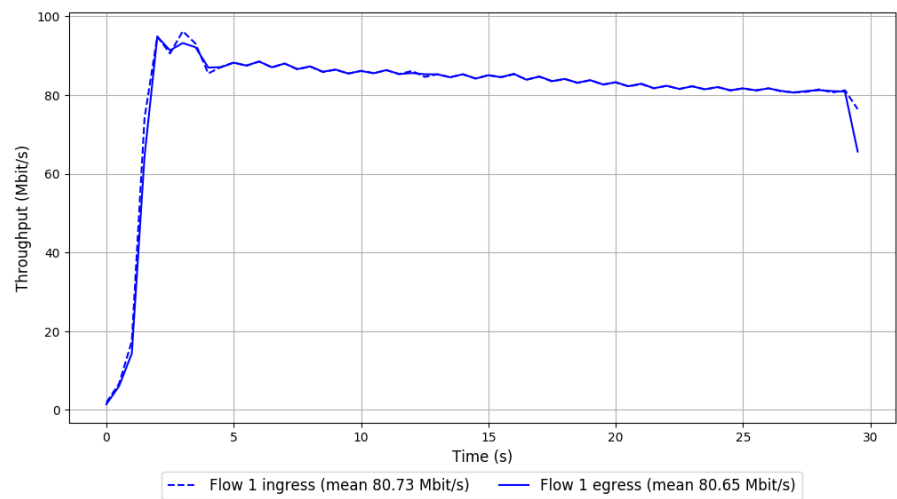


Run 5: Statistics of Copa

Start at: 2018-03-14 22:37:53
End at: 2018-03-14 22:38:23
Local clock offset: -0.148 ms
Remote clock offset: -9.209 ms

Below is generated by plot.py at 2018-03-15 04:57:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 80.65 Mbit/s
95th percentile per-packet one-way delay: 73.186 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 80.65 Mbit/s
95th percentile per-packet one-way delay: 73.186 ms
Loss rate: 0.53%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-03-14 23:01:11

End at: 2018-03-14 23:01:41

Local clock offset: -2.819 ms

Remote clock offset: 0.097 ms

Below is generated by plot.py at 2018-03-15 04:58:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.29 Mbit/s

95th percentile per-packet one-way delay: 66.276 ms

Loss rate: 0.44%

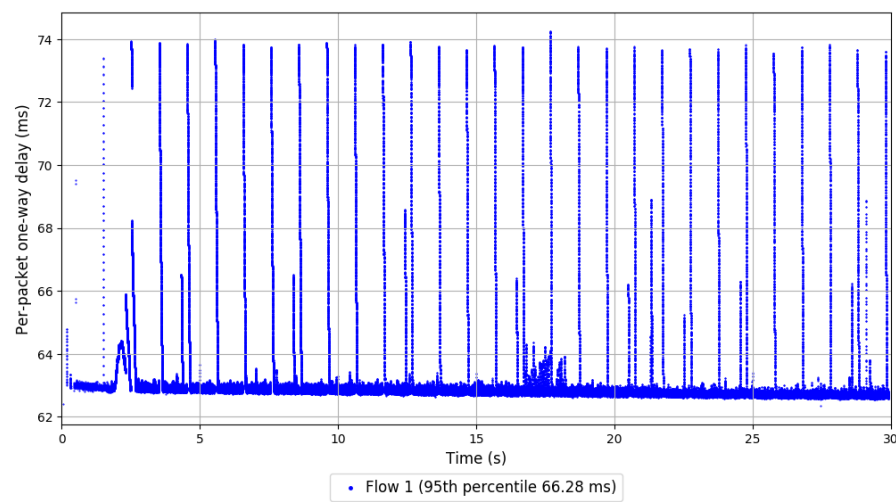
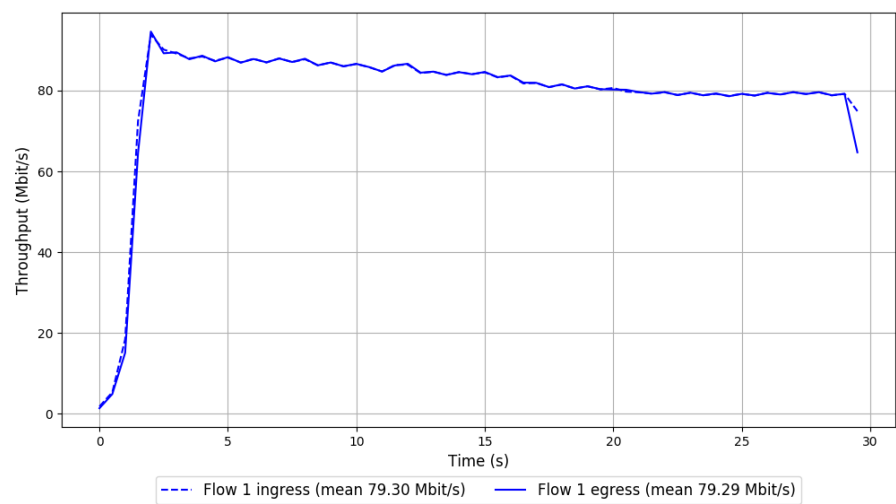
-- Flow 1:

Average throughput: 79.29 Mbit/s

95th percentile per-packet one-way delay: 66.276 ms

Loss rate: 0.44%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-03-14 23:24:30

End at: 2018-03-14 23:25:00

Local clock offset: 2.419 ms

Remote clock offset: 0.111 ms

Below is generated by plot.py at 2018-03-15 04:58:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.80 Mbit/s

95th percentile per-packet one-way delay: 65.242 ms

Loss rate: 0.42%

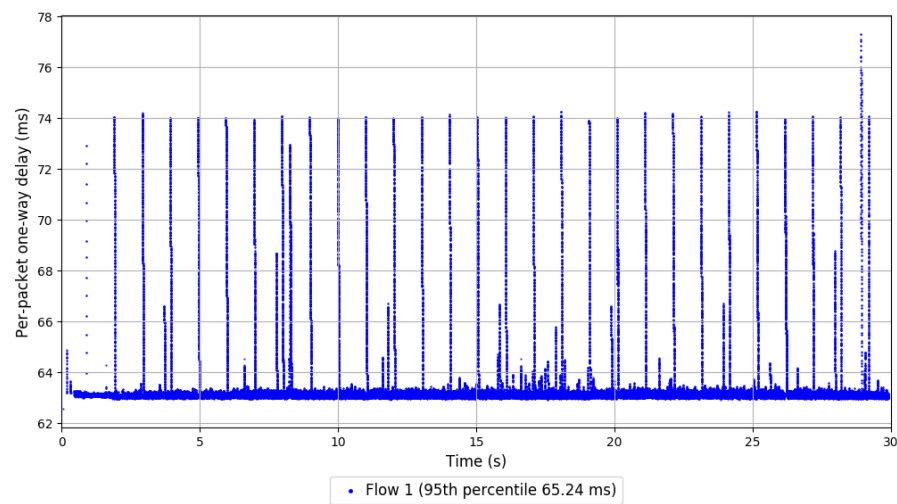
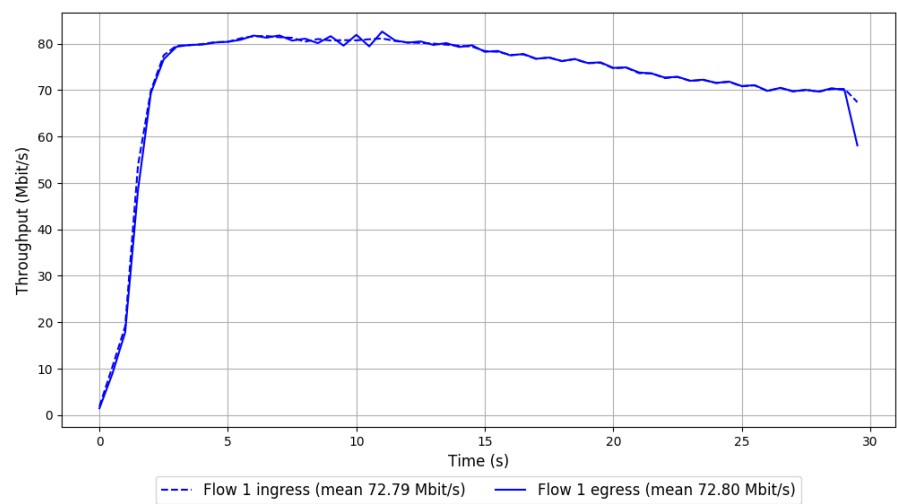
-- Flow 1:

Average throughput: 72.80 Mbit/s

95th percentile per-packet one-way delay: 65.242 ms

Loss rate: 0.42%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-03-14 23:47:47

End at: 2018-03-14 23:48:17

Local clock offset: 4.647 ms

Remote clock offset: 0.382 ms

Below is generated by plot.py at 2018-03-15 04:58:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.45 Mbit/s

95th percentile per-packet one-way delay: 65.370 ms

Loss rate: 0.46%

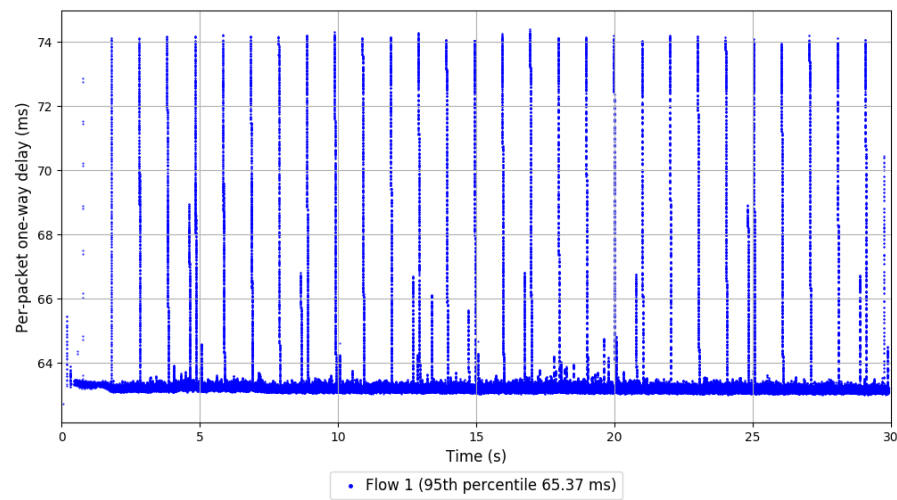
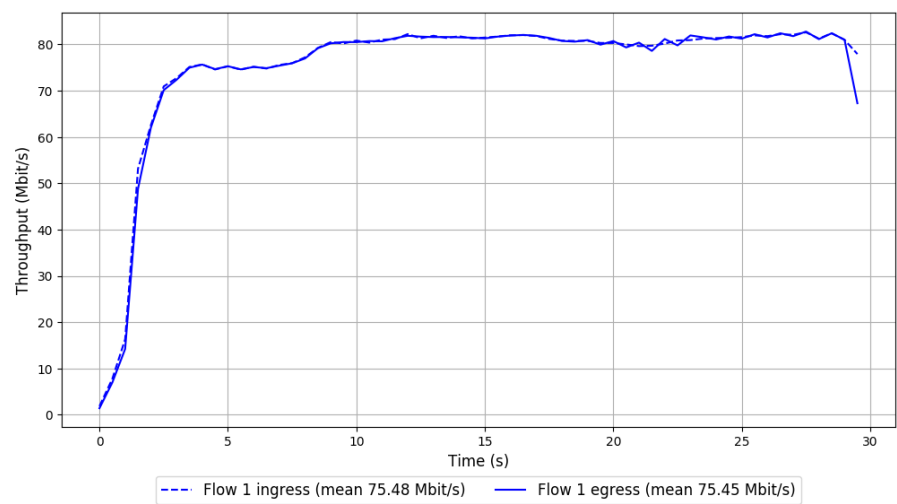
-- Flow 1:

Average throughput: 75.45 Mbit/s

95th percentile per-packet one-way delay: 65.370 ms

Loss rate: 0.46%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-03-15 00:11:05

End at: 2018-03-15 00:11:35

Local clock offset: 5.036 ms

Remote clock offset: 0.205 ms

Below is generated by plot.py at 2018-03-15 04:58:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.66 Mbit/s

95th percentile per-packet one-way delay: 64.790 ms

Loss rate: 0.47%

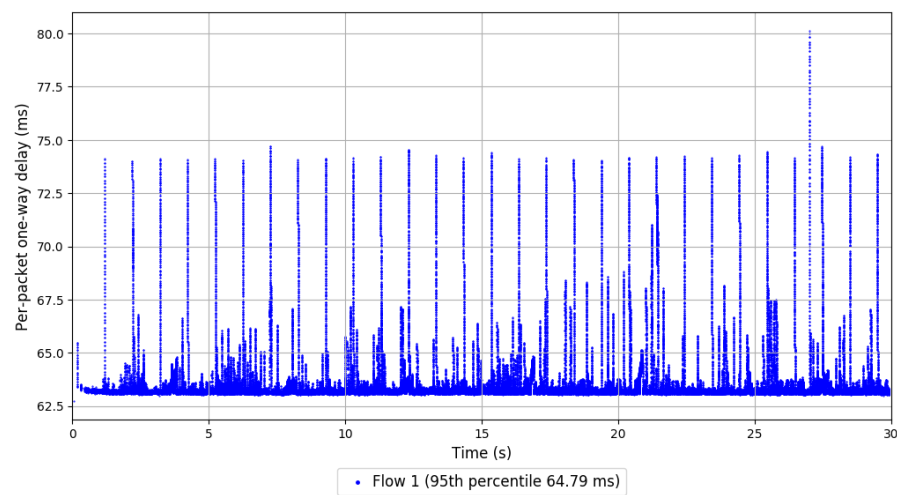
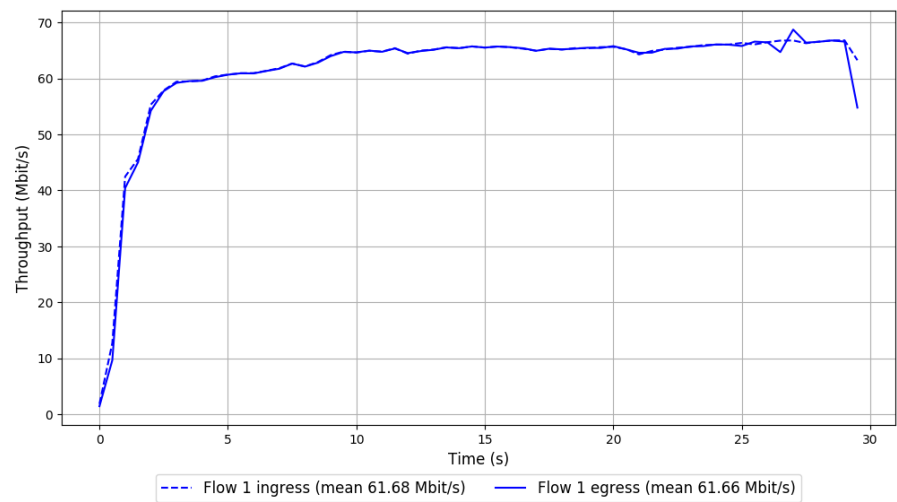
-- Flow 1:

Average throughput: 61.66 Mbit/s

95th percentile per-packet one-way delay: 64.790 ms

Loss rate: 0.47%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-03-15 00:35:08

End at: 2018-03-15 00:35:38

Local clock offset: 5.913 ms

Remote clock offset: 9.114 ms

Below is generated by plot.py at 2018-03-15 04:59:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.75 Mbit/s

95th percentile per-packet one-way delay: 67.142 ms

Loss rate: 0.47%

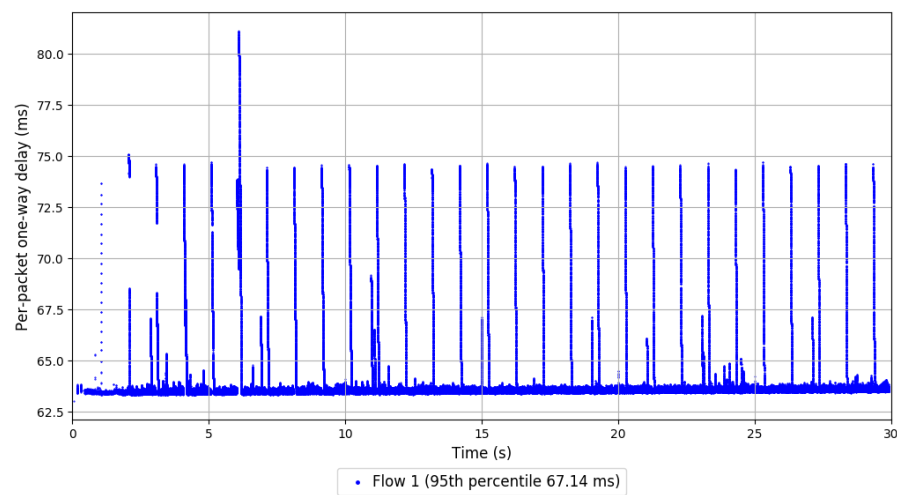
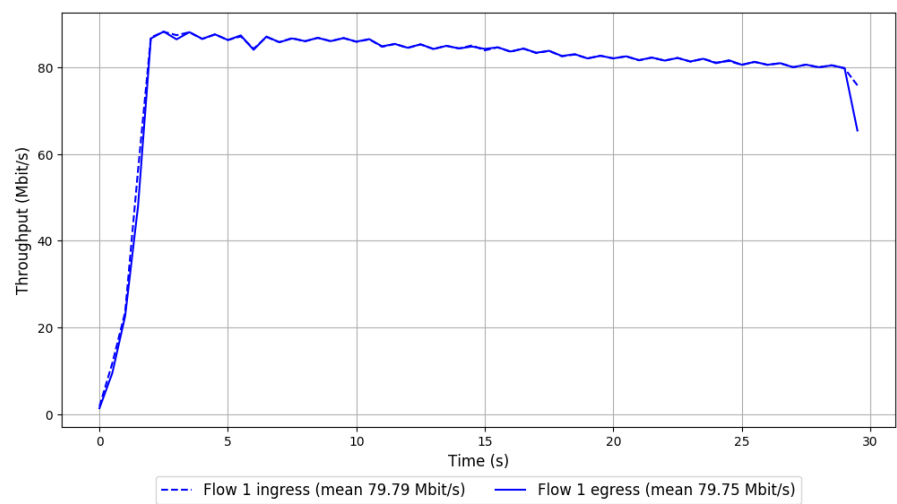
-- Flow 1:

Average throughput: 79.75 Mbit/s

95th percentile per-packet one-way delay: 67.142 ms

Loss rate: 0.47%

Run 10: Report of Copa — Data Link

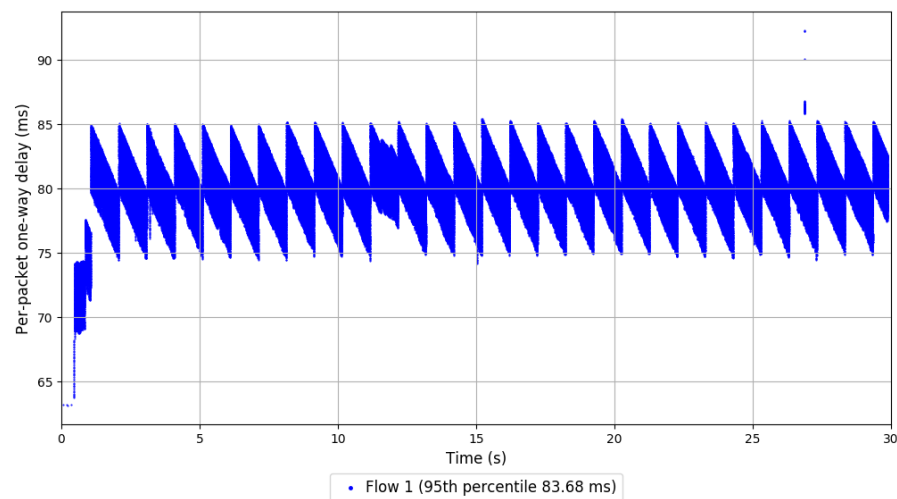
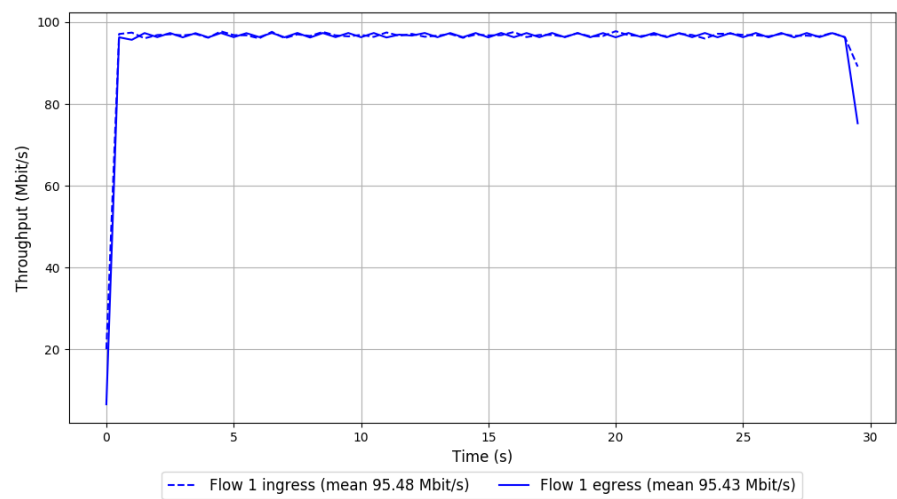


Run 1: Statistics of FillP

Start at: 2018-03-14 20:56:33
End at: 2018-03-14 20:57:03
Local clock offset: -2.435 ms
Remote clock offset: -0.695 ms

Below is generated by plot.py at 2018-03-15 04:59:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.43 Mbit/s
95th percentile per-packet one-way delay: 83.676 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 95.43 Mbit/s
95th percentile per-packet one-way delay: 83.676 ms
Loss rate: 0.51%

Run 1: Report of FillP — Data Link

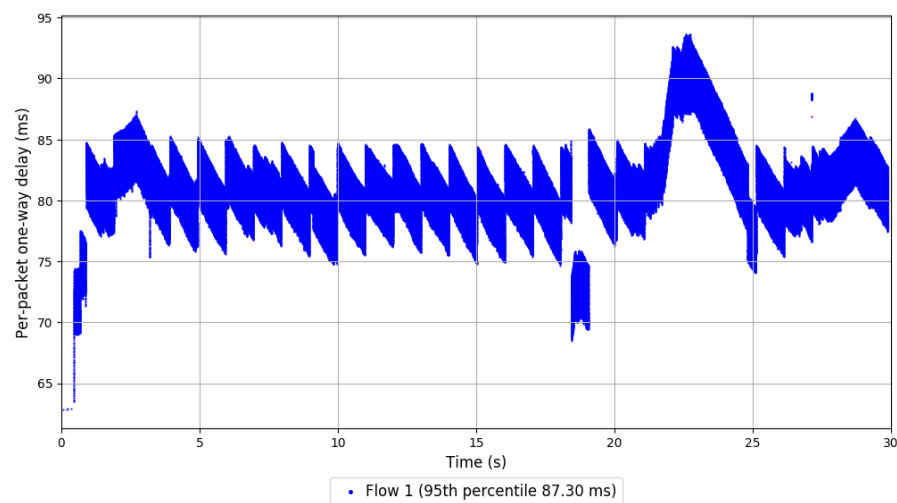
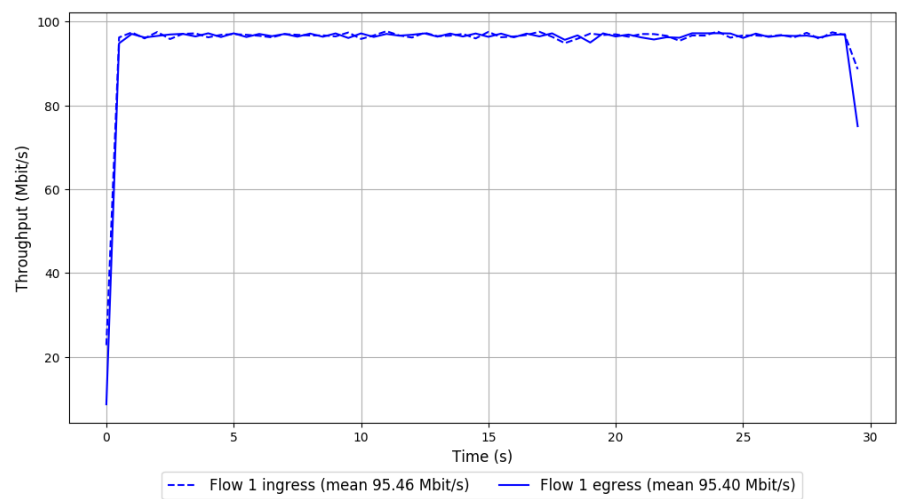


Run 2: Statistics of FillP

Start at: 2018-03-14 21:19:51
End at: 2018-03-14 21:20:21
Local clock offset: -7.905 ms
Remote clock offset: -4.041 ms

Below is generated by plot.py at 2018-03-15 04:59:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.40 Mbit/s
95th percentile per-packet one-way delay: 87.298 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 95.40 Mbit/s
95th percentile per-packet one-way delay: 87.298 ms
Loss rate: 0.52%

Run 2: Report of FillP — Data Link

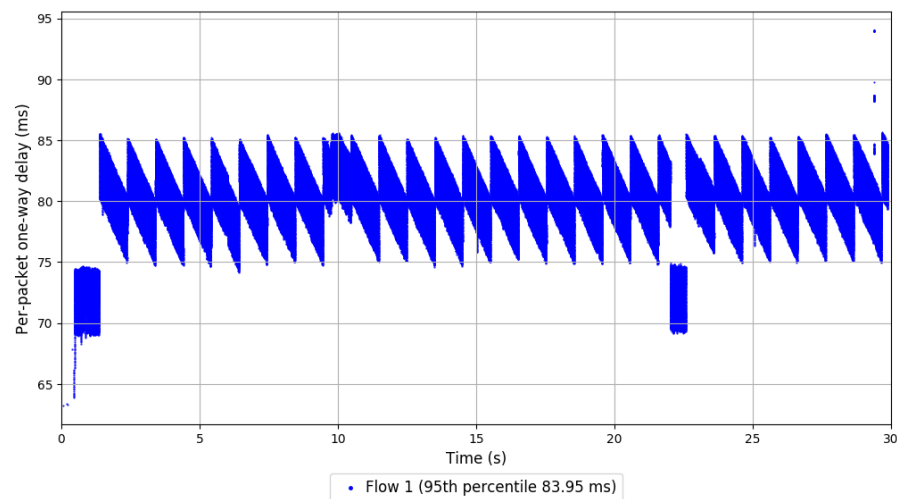
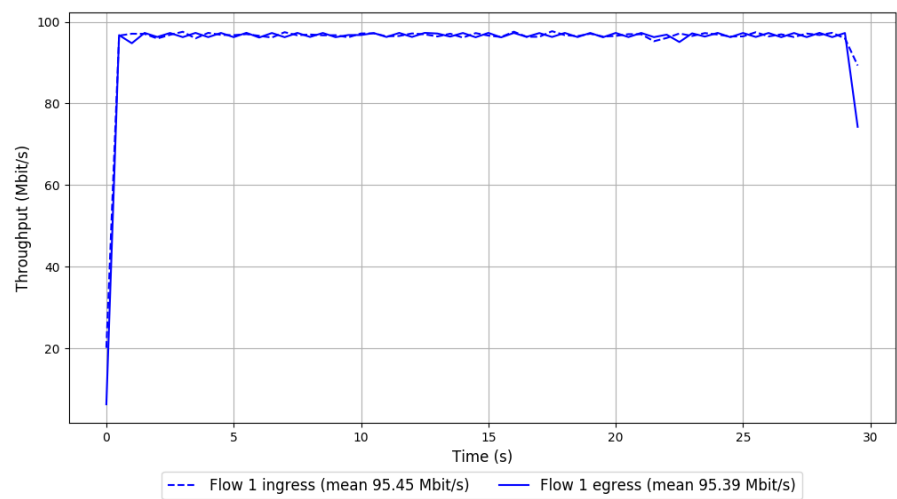


Run 3: Statistics of FillP

Start at: 2018-03-14 21:43:49
End at: 2018-03-14 21:44:19
Local clock offset: -9.517 ms
Remote clock offset: -0.685 ms

Below is generated by plot.py at 2018-03-15 04:59:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.39 Mbit/s
95th percentile per-packet one-way delay: 83.948 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 95.39 Mbit/s
95th percentile per-packet one-way delay: 83.948 ms
Loss rate: 0.52%

Run 3: Report of FillP — Data Link

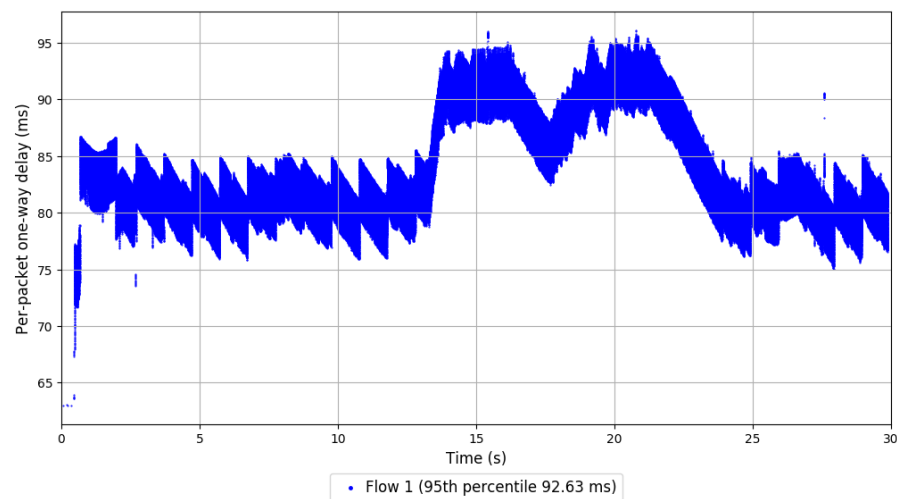
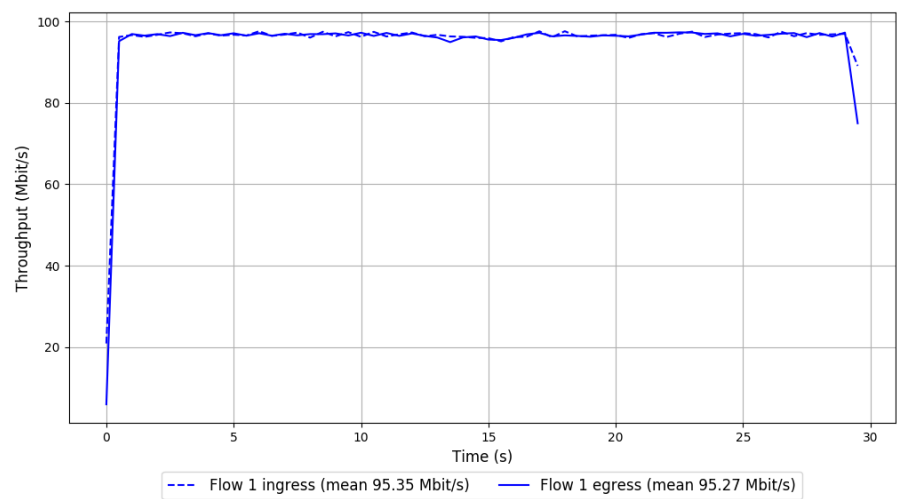


Run 4: Statistics of FillP

Start at: 2018-03-14 22:07:07
End at: 2018-03-14 22:07:37
Local clock offset: 1.479 ms
Remote clock offset: -0.383 ms

Below is generated by plot.py at 2018-03-15 04:59:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.27 Mbit/s
95th percentile per-packet one-way delay: 92.634 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 95.27 Mbit/s
95th percentile per-packet one-way delay: 92.634 ms
Loss rate: 0.55%

Run 4: Report of FillP — Data Link

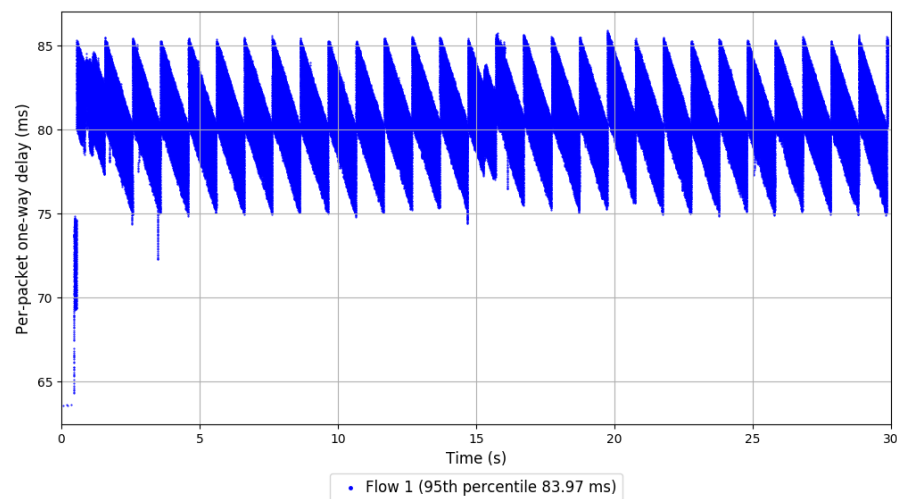
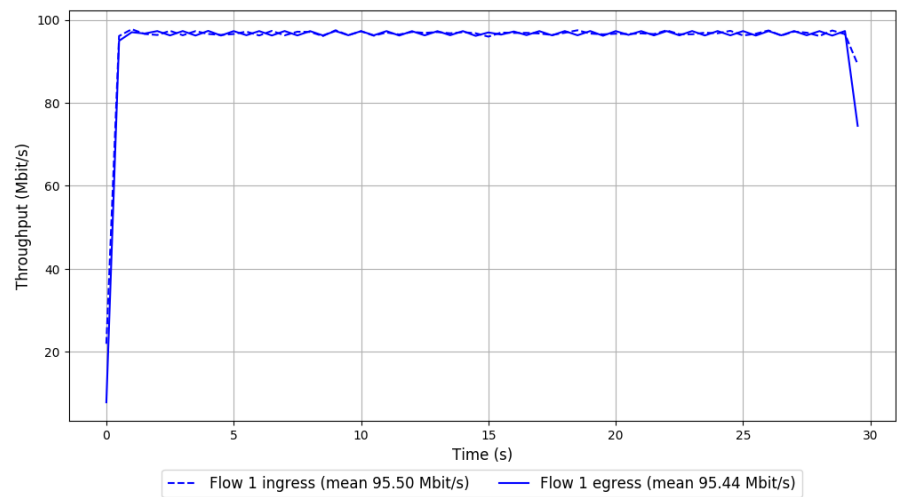


Run 5: Statistics of FillP

Start at: 2018-03-14 22:30:32
End at: 2018-03-14 22:31:02
Local clock offset: 0.871 ms
Remote clock offset: -8.428 ms

Below is generated by plot.py at 2018-03-15 04:59:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.44 Mbit/s
95th percentile per-packet one-way delay: 83.975 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 95.44 Mbit/s
95th percentile per-packet one-way delay: 83.975 ms
Loss rate: 0.53%

Run 5: Report of FillP — Data Link

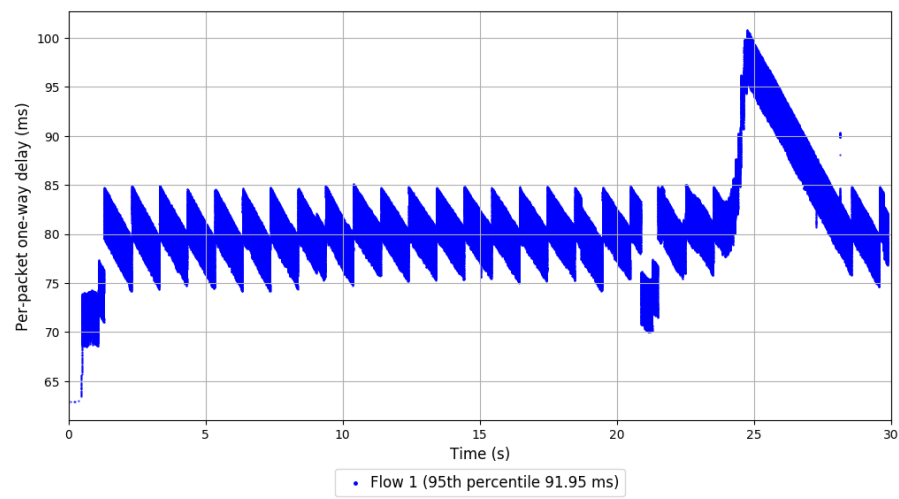
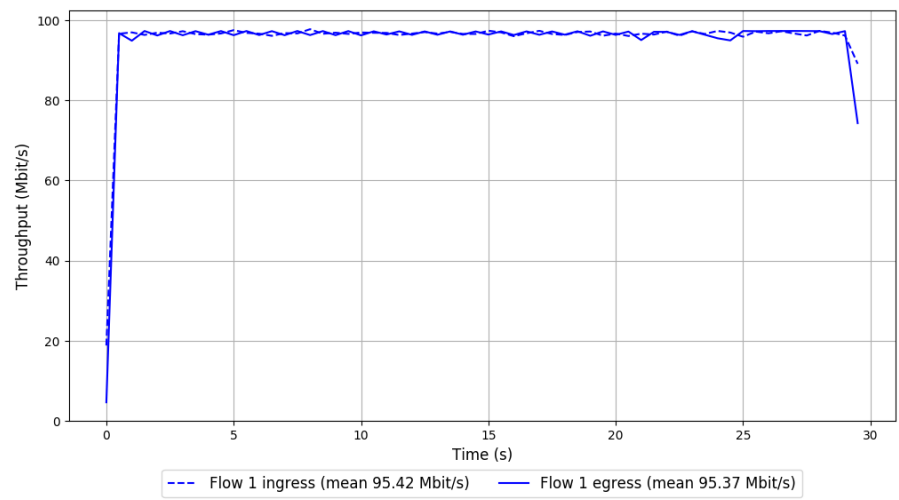


Run 6: Statistics of FillP

Start at: 2018-03-14 22:53:50
End at: 2018-03-14 22:54:20
Local clock offset: -2.515 ms
Remote clock offset: -1.411 ms

Below is generated by plot.py at 2018-03-15 04:59:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.37 Mbit/s
95th percentile per-packet one-way delay: 91.950 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 95.37 Mbit/s
95th percentile per-packet one-way delay: 91.950 ms
Loss rate: 0.52%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-03-14 23:17:08

End at: 2018-03-14 23:17:38

Local clock offset: 2.064 ms

Remote clock offset: 0.95 ms

Below is generated by plot.py at 2018-03-15 04:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.54 Mbit/s

95th percentile per-packet one-way delay: 83.068 ms

Loss rate: 0.52%

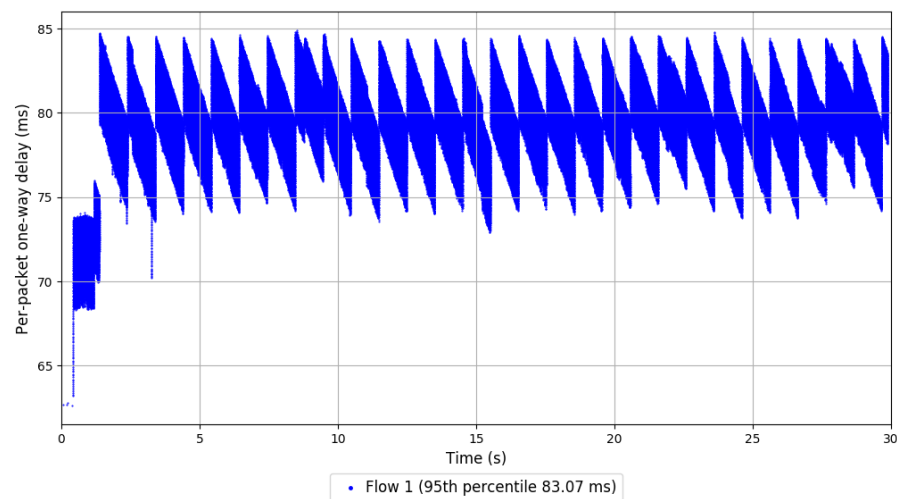
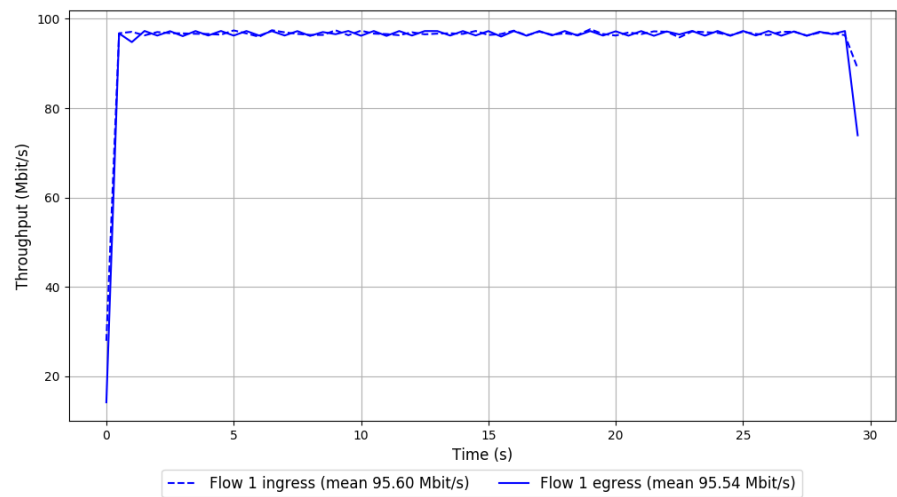
-- Flow 1:

Average throughput: 95.54 Mbit/s

95th percentile per-packet one-way delay: 83.068 ms

Loss rate: 0.52%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-03-14 23:40:26

End at: 2018-03-14 23:40:56

Local clock offset: 3.918 ms

Remote clock offset: 0.152 ms

Below is generated by plot.py at 2018-03-15 05:00:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.46 Mbit/s

95th percentile per-packet one-way delay: 83.336 ms

Loss rate: 0.52%

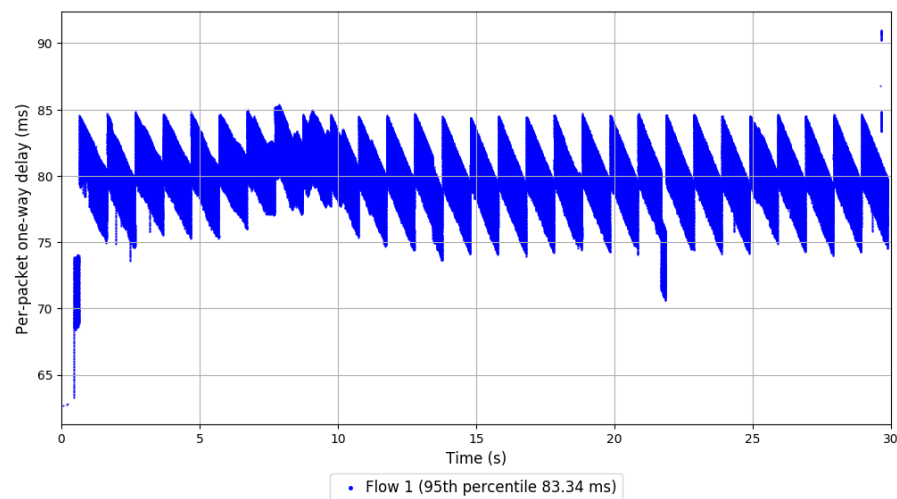
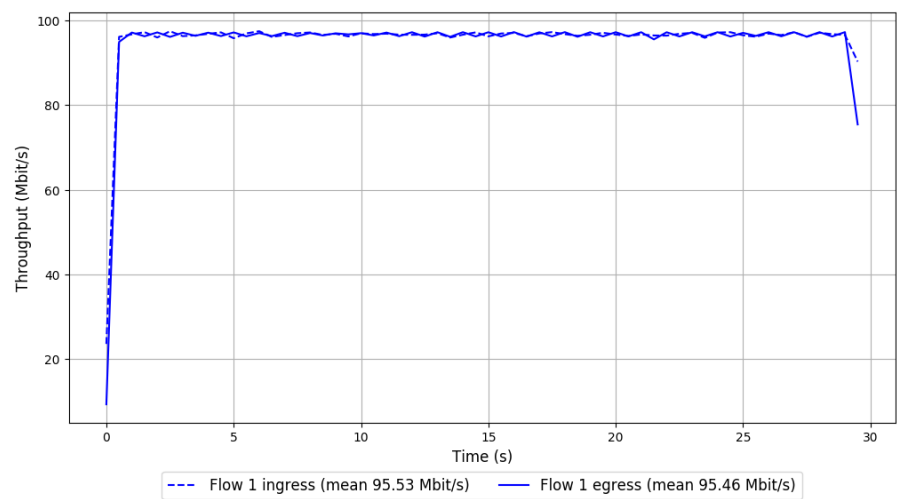
-- Flow 1:

Average throughput: 95.46 Mbit/s

95th percentile per-packet one-way delay: 83.336 ms

Loss rate: 0.52%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-03-15 00:03:44

End at: 2018-03-15 00:04:14

Local clock offset: 5.136 ms

Remote clock offset: 0.101 ms

Below is generated by plot.py at 2018-03-15 05:00:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.88 Mbit/s

95th percentile per-packet one-way delay: 104.033 ms

Loss rate: 0.68%

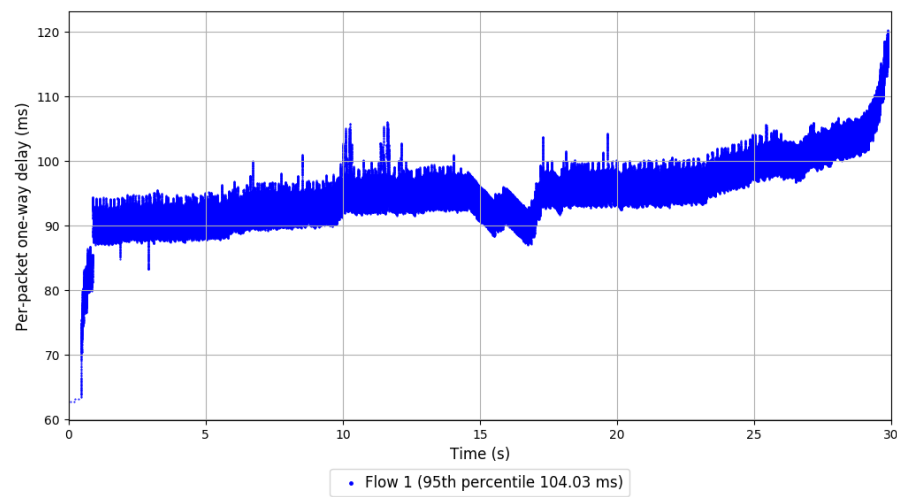
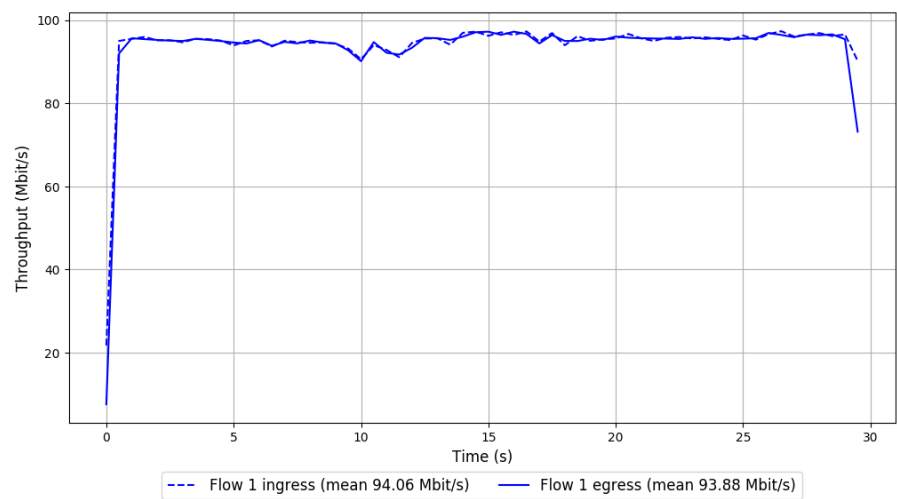
-- Flow 1:

Average throughput: 93.88 Mbit/s

95th percentile per-packet one-way delay: 104.033 ms

Loss rate: 0.68%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-03-15 00:27:47

End at: 2018-03-15 00:28:18

Local clock offset: 5.934 ms

Remote clock offset: 5.73 ms

Below is generated by plot.py at 2018-03-15 05:01:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.37 Mbit/s

95th percentile per-packet one-way delay: 84.106 ms

Loss rate: 0.52%

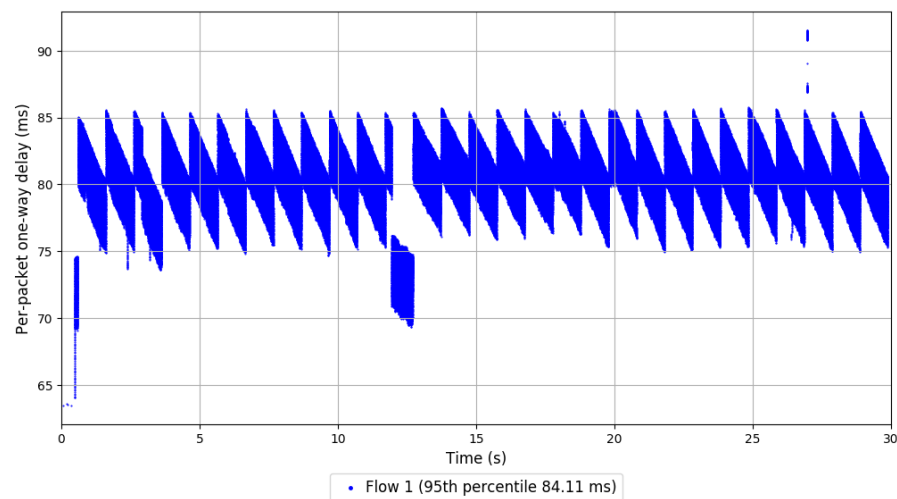
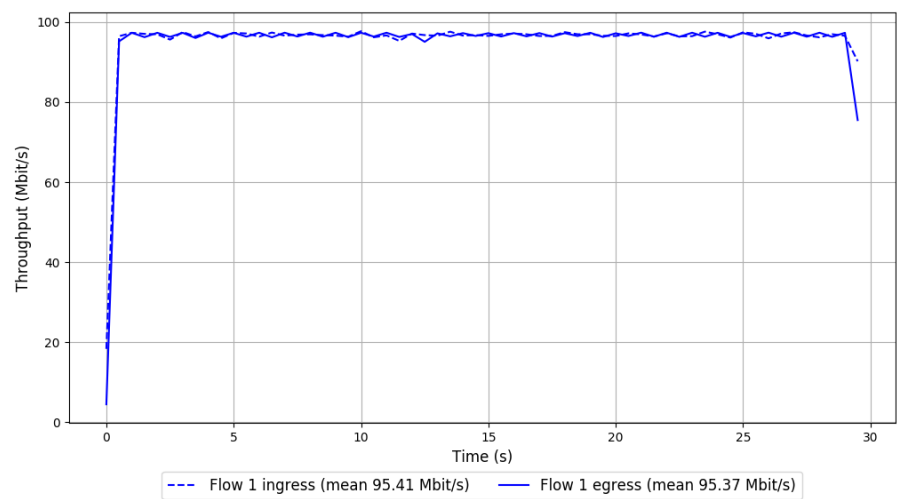
-- Flow 1:

Average throughput: 95.37 Mbit/s

95th percentile per-packet one-way delay: 84.106 ms

Loss rate: 0.52%

Run 10: Report of FillP — Data Link

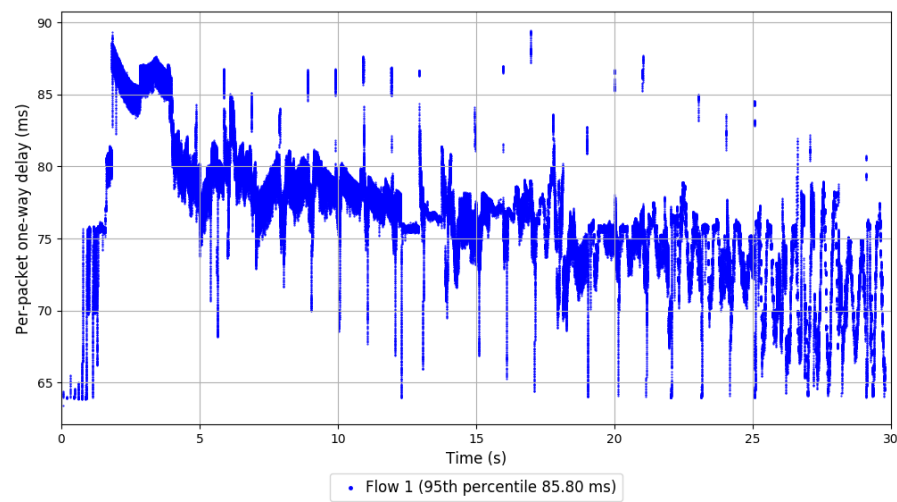
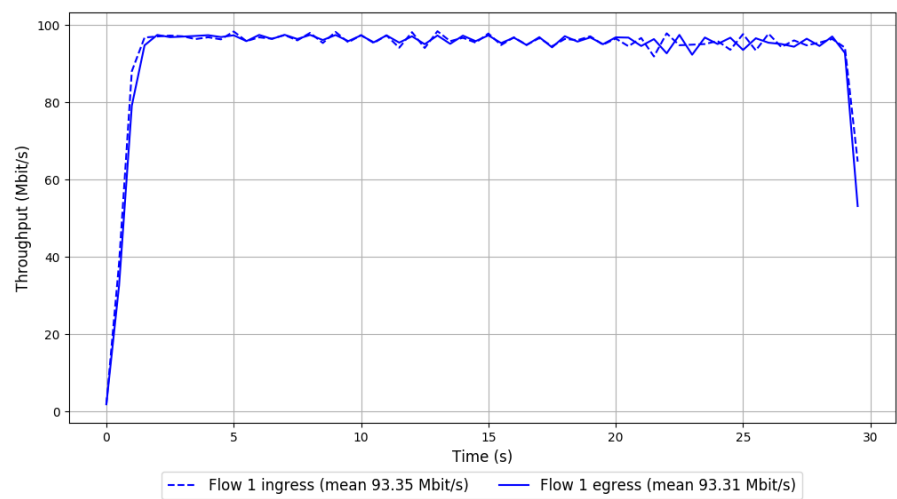


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-03-14 21:06:21
End at: 2018-03-14 21:06:52
Local clock offset: -4.784 ms
Remote clock offset: -2.971 ms

# Below is generated by plot.py at 2018-03-15 05:01:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.31 Mbit/s
95th percentile per-packet one-way delay: 85.798 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 93.31 Mbit/s
95th percentile per-packet one-way delay: 85.798 ms
Loss rate: 0.47%
```

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

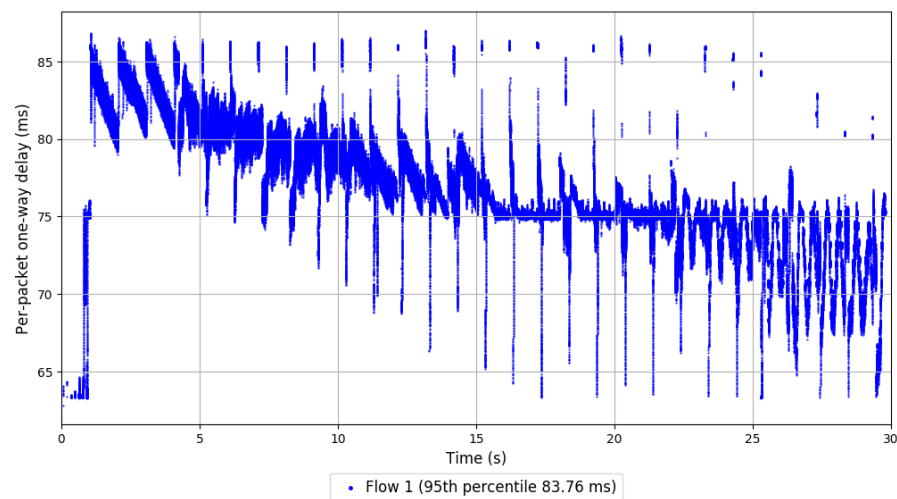
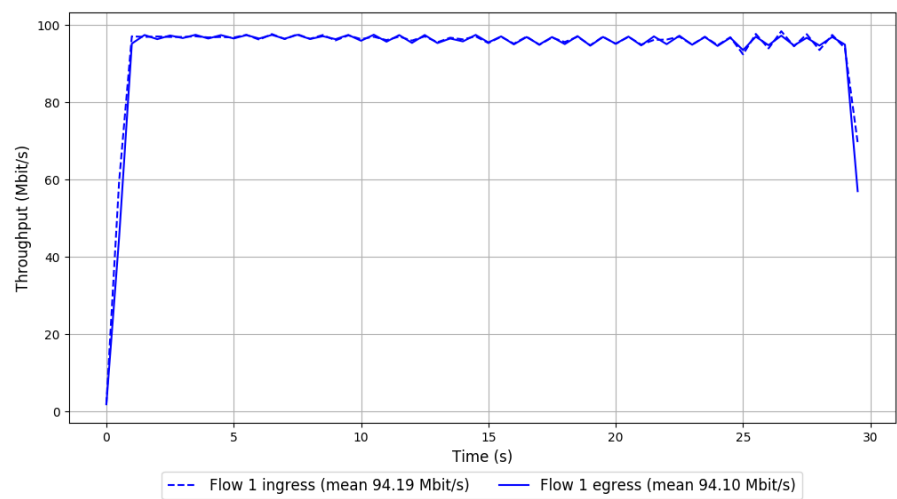


Run 2: Statistics of Indigo-1-32

Start at: 2018-03-14 21:29:59
End at: 2018-03-14 21:30:29
Local clock offset: -5.348 ms
Remote clock offset: -4.576 ms

Below is generated by plot.py at 2018-03-15 05:01:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.10 Mbit/s
95th percentile per-packet one-way delay: 83.760 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 94.10 Mbit/s
95th percentile per-packet one-way delay: 83.760 ms
Loss rate: 0.53%

Run 2: Report of Indigo-1-32 — Data Link



Run 3: Statistics of Indigo-1-32

Start at: 2018-03-14 21:53:39

End at: 2018-03-14 21:54:09

Local clock offset: -8.123 ms

Remote clock offset: 0.519 ms

Below is generated by plot.py at 2018-03-15 05:01:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.72 Mbit/s

95th percentile per-packet one-way delay: 74.557 ms

Loss rate: 0.42%

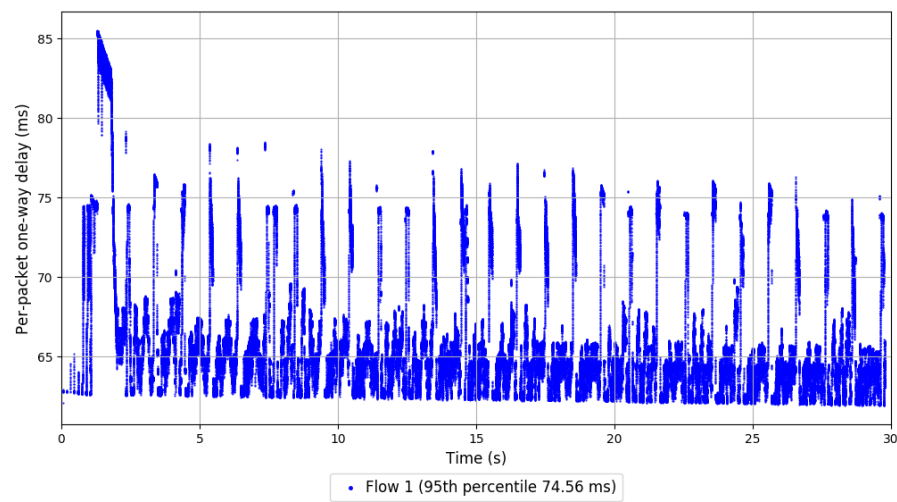
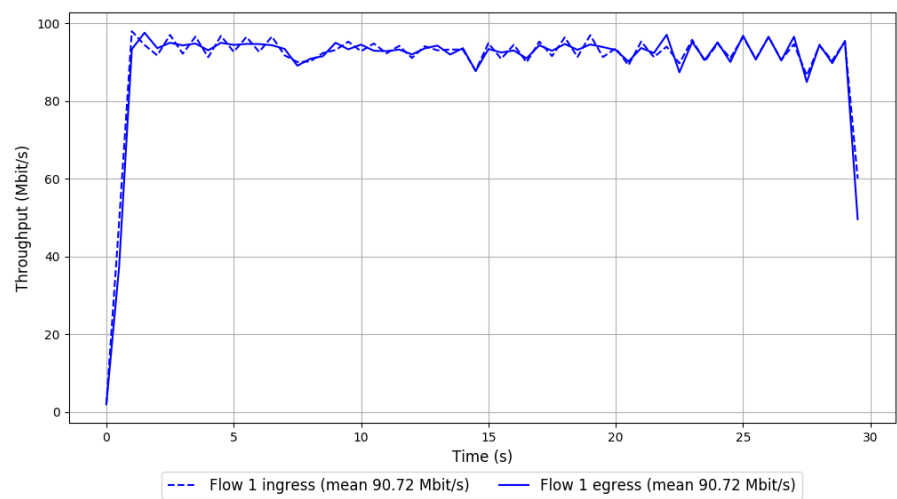
-- Flow 1:

Average throughput: 90.72 Mbit/s

95th percentile per-packet one-way delay: 74.557 ms

Loss rate: 0.42%

Run 3: Report of Indigo-1-32 — Data Link



Run 4: Statistics of Indigo-1-32

Start at: 2018-03-14 22:17:04

End at: 2018-03-14 22:17:34

Local clock offset: 2.116 ms

Remote clock offset: -5.806 ms

Below is generated by plot.py at 2018-03-15 05:01:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.34 Mbit/s

95th percentile per-packet one-way delay: 85.566 ms

Loss rate: 0.48%

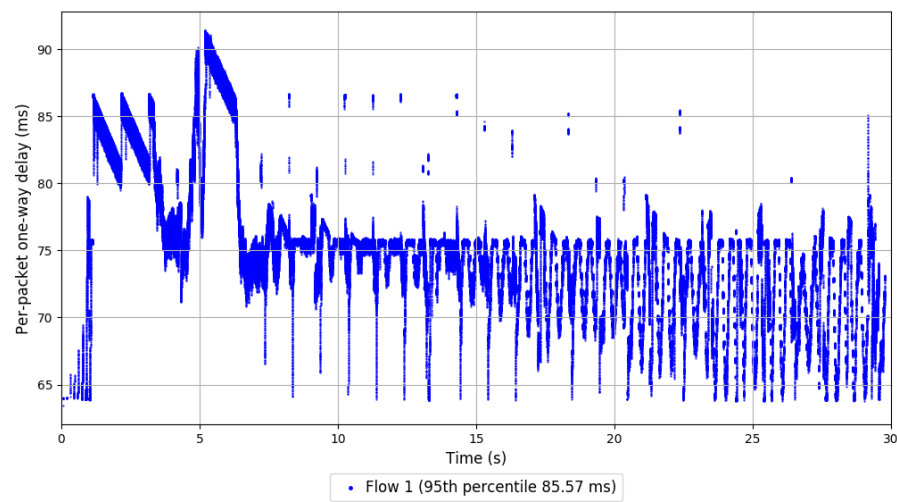
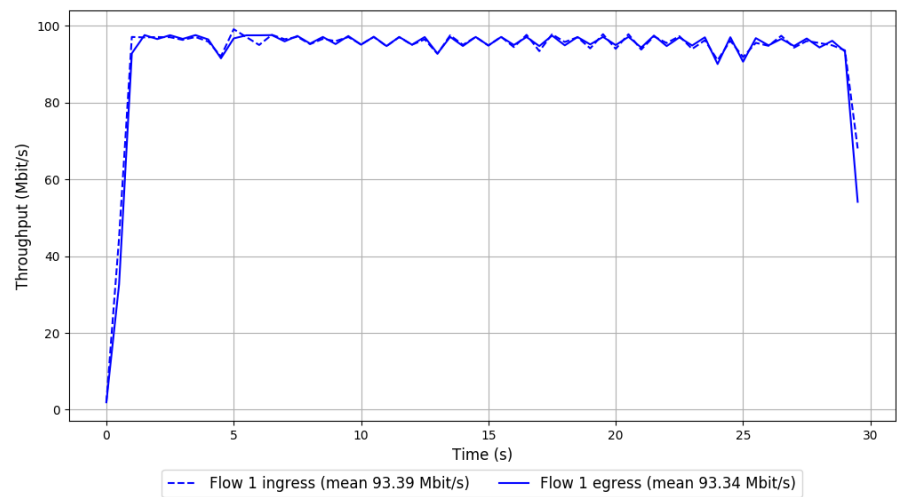
-- Flow 1:

Average throughput: 93.34 Mbit/s

95th percentile per-packet one-way delay: 85.566 ms

Loss rate: 0.48%

Run 4: Report of Indigo-1-32 — Data Link



Run 5: Statistics of Indigo-1-32

Start at: 2018-03-14 22:40:22

End at: 2018-03-14 22:40:53

Local clock offset: -0.504 ms

Remote clock offset: -8.426 ms

Below is generated by plot.py at 2018-03-15 05:01:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.73 Mbit/s

95th percentile per-packet one-way delay: 76.061 ms

Loss rate: 0.47%

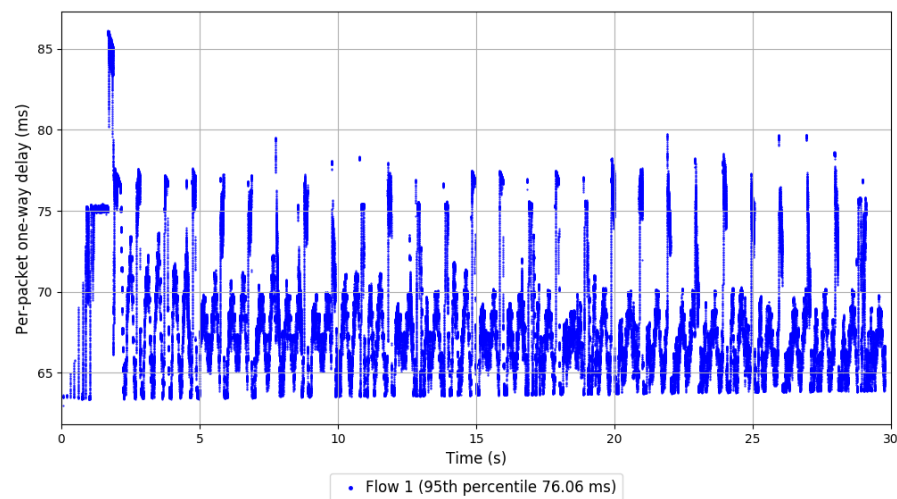
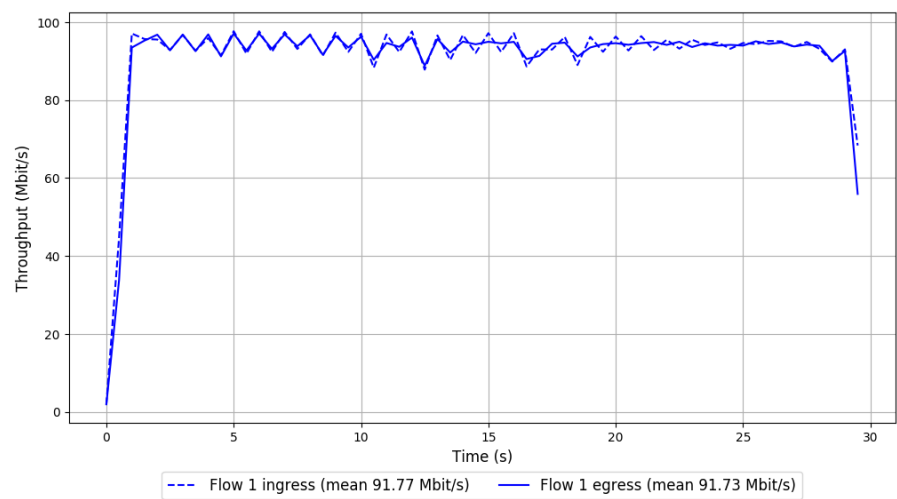
-- Flow 1:

Average throughput: 91.73 Mbit/s

95th percentile per-packet one-way delay: 76.061 ms

Loss rate: 0.47%

Run 5: Report of Indigo-1-32 — Data Link



Run 6: Statistics of Indigo-1-32

Start at: 2018-03-14 23:03:40

End at: 2018-03-14 23:04:10

Local clock offset: -0.806 ms

Remote clock offset: 0.514 ms

Below is generated by plot.py at 2018-03-15 05:01:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.67 Mbit/s

95th percentile per-packet one-way delay: 74.946 ms

Loss rate: 0.44%

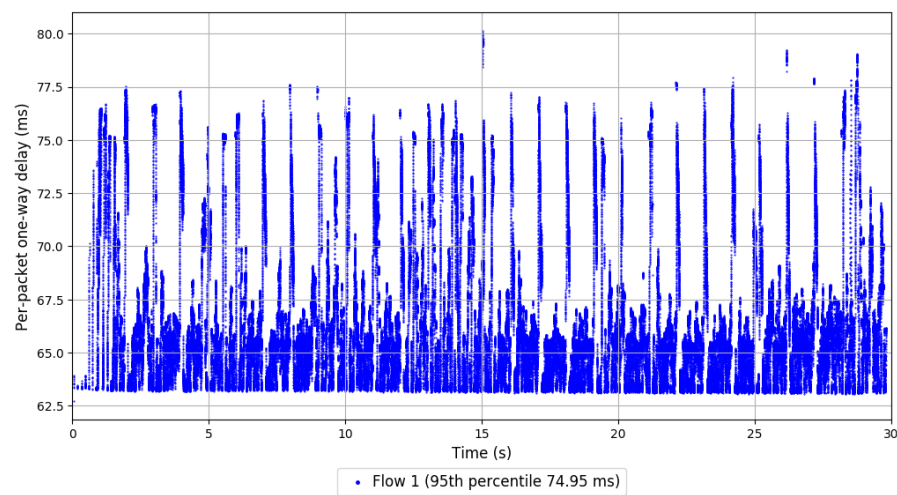
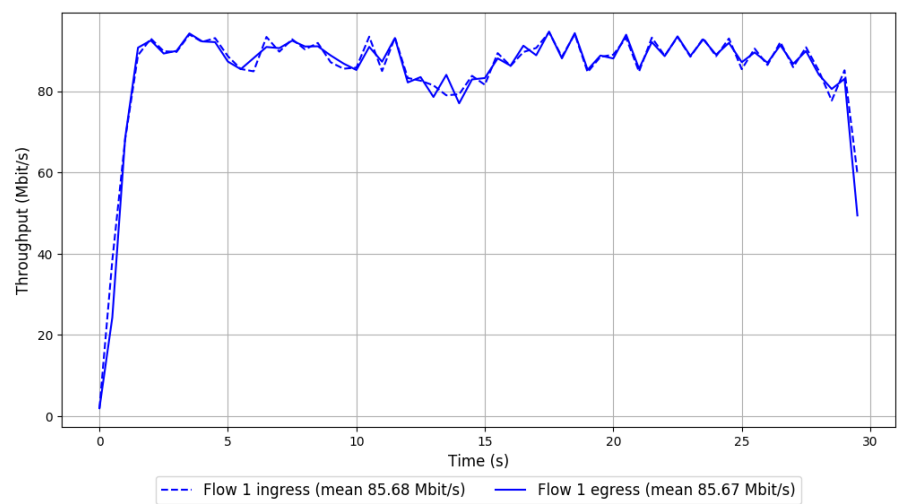
-- Flow 1:

Average throughput: 85.67 Mbit/s

95th percentile per-packet one-way delay: 74.946 ms

Loss rate: 0.44%

Run 6: Report of Indigo-1-32 — Data Link



Run 7: Statistics of Indigo-1-32

Start at: 2018-03-14 23:26:58

End at: 2018-03-14 23:27:28

Local clock offset: 2.658 ms

Remote clock offset: 0.034 ms

Below is generated by plot.py at 2018-03-15 05:02:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.42 Mbit/s

95th percentile per-packet one-way delay: 75.347 ms

Loss rate: 0.43%

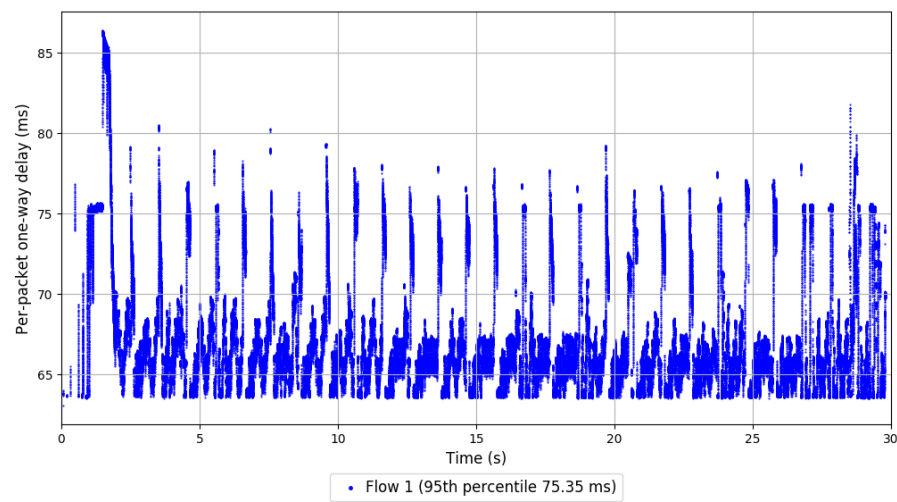
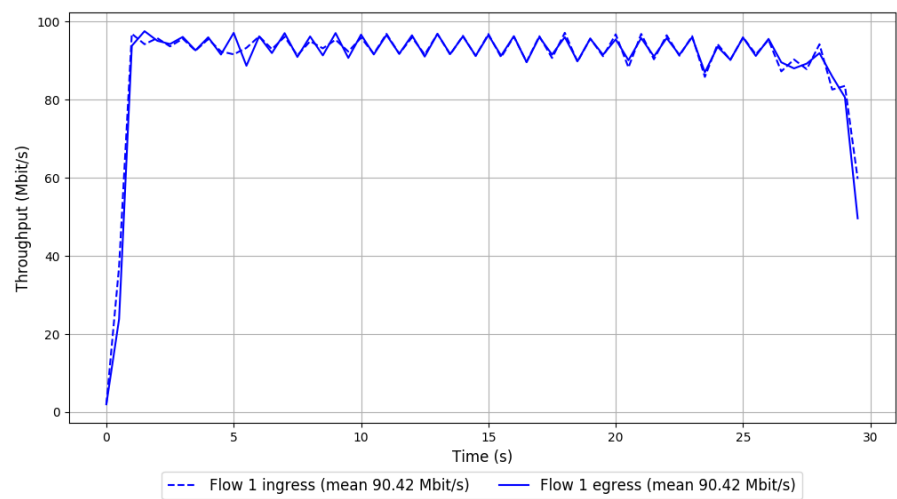
-- Flow 1:

Average throughput: 90.42 Mbit/s

95th percentile per-packet one-way delay: 75.347 ms

Loss rate: 0.43%

Run 7: Report of Indigo-1-32 — Data Link



Run 8: Statistics of Indigo-1-32

Start at: 2018-03-14 23:50:16

End at: 2018-03-14 23:50:46

Local clock offset: 4.671 ms

Remote clock offset: 0.199 ms

Below is generated by plot.py at 2018-03-15 05:02:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.74 Mbit/s

95th percentile per-packet one-way delay: 75.114 ms

Loss rate: 0.47%

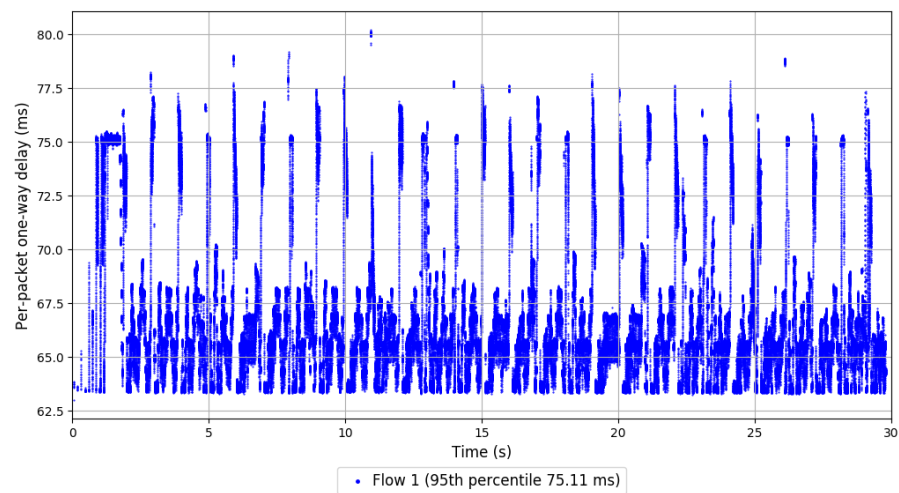
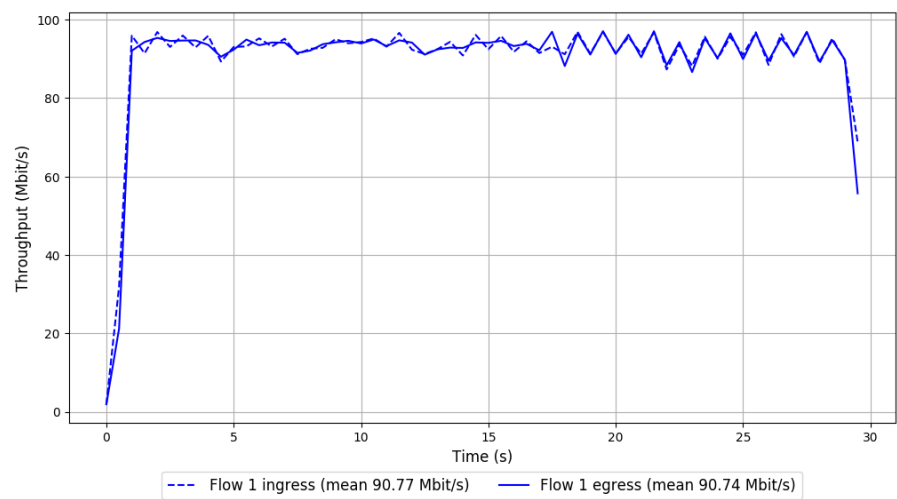
-- Flow 1:

Average throughput: 90.74 Mbit/s

95th percentile per-packet one-way delay: 75.114 ms

Loss rate: 0.47%

Run 8: Report of Indigo-1-32 — Data Link



Run 9: Statistics of Indigo-1-32

Start at: 2018-03-15 00:13:33

End at: 2018-03-15 00:14:03

Local clock offset: 4.853 ms

Remote clock offset: 0.269 ms

Below is generated by plot.py at 2018-03-15 05:02:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.05 Mbit/s

95th percentile per-packet one-way delay: 82.421 ms

Loss rate: 0.46%

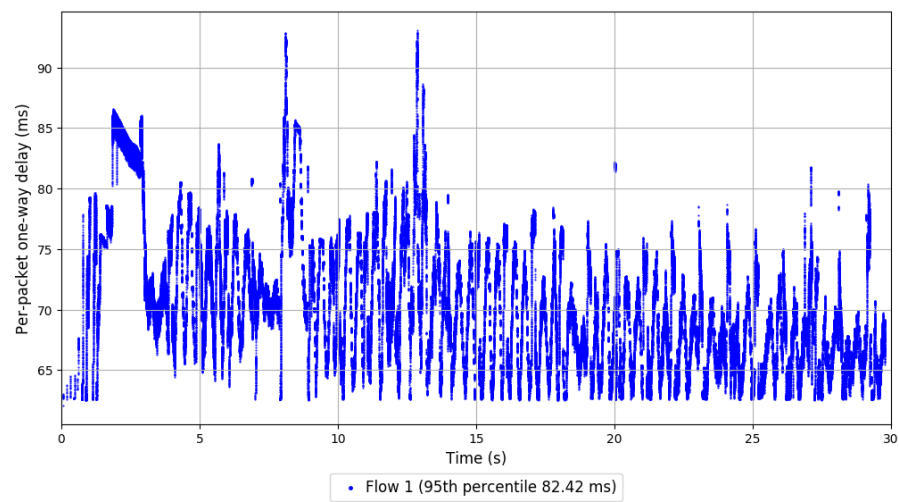
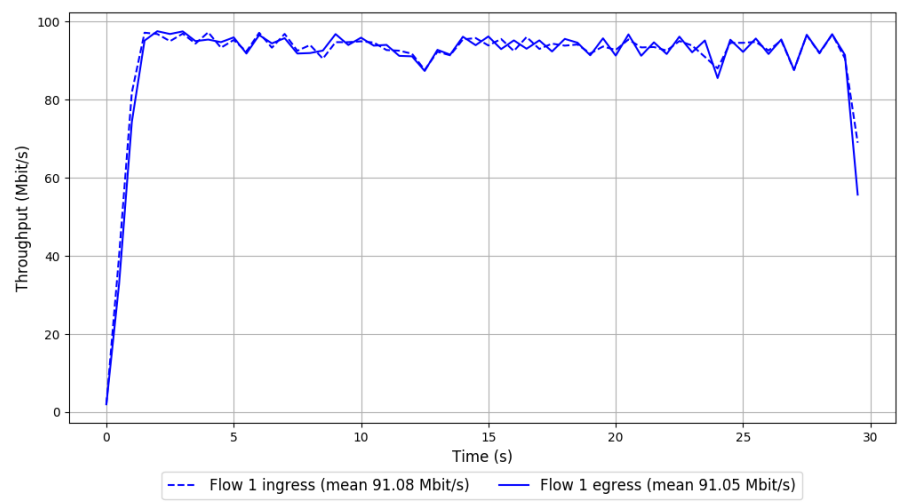
-- Flow 1:

Average throughput: 91.05 Mbit/s

95th percentile per-packet one-way delay: 82.421 ms

Loss rate: 0.46%

Run 9: Report of Indigo-1-32 — Data Link



Run 10: Statistics of Indigo-1-32

Start at: 2018-03-15 00:37:38

End at: 2018-03-15 00:38:08

Local clock offset: 6.23 ms

Remote clock offset: 9.986 ms

Below is generated by plot.py at 2018-03-15 05:02:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.30 Mbit/s

95th percentile per-packet one-way delay: 82.785 ms

Loss rate: 0.49%

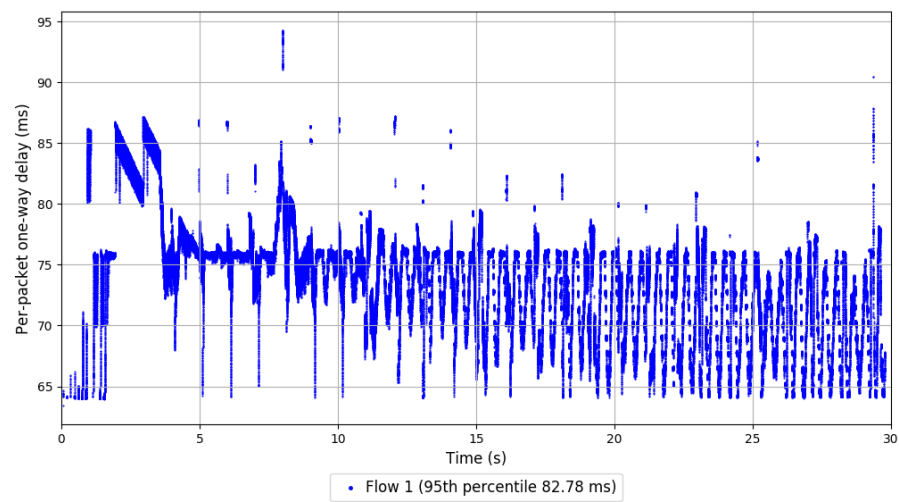
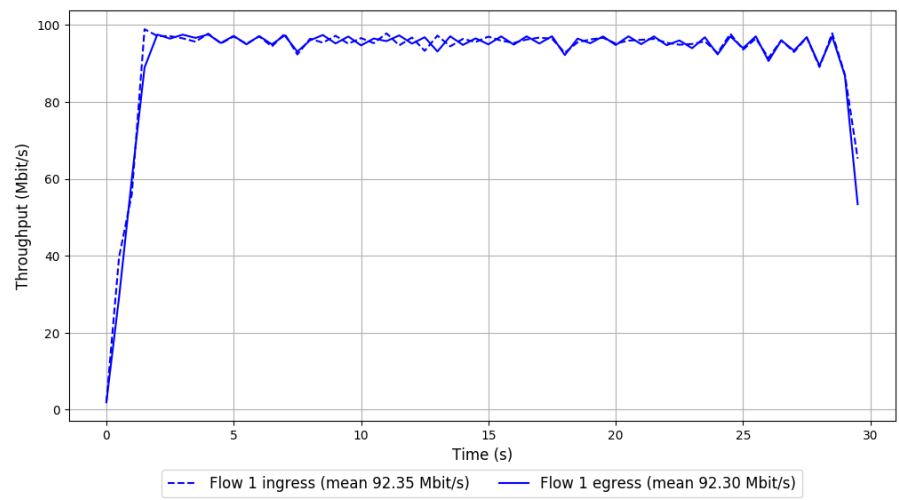
-- Flow 1:

Average throughput: 92.30 Mbit/s

95th percentile per-packet one-way delay: 82.785 ms

Loss rate: 0.49%

Run 10: Report of Indigo-1-32 — Data Link

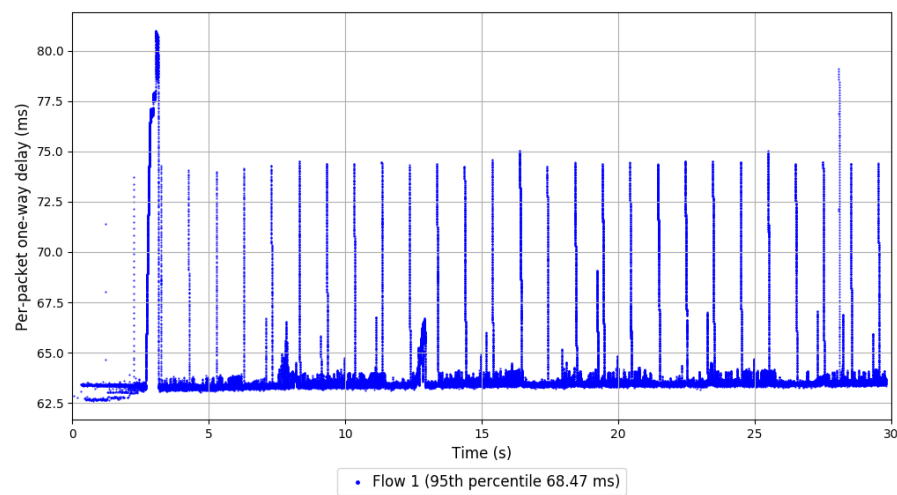
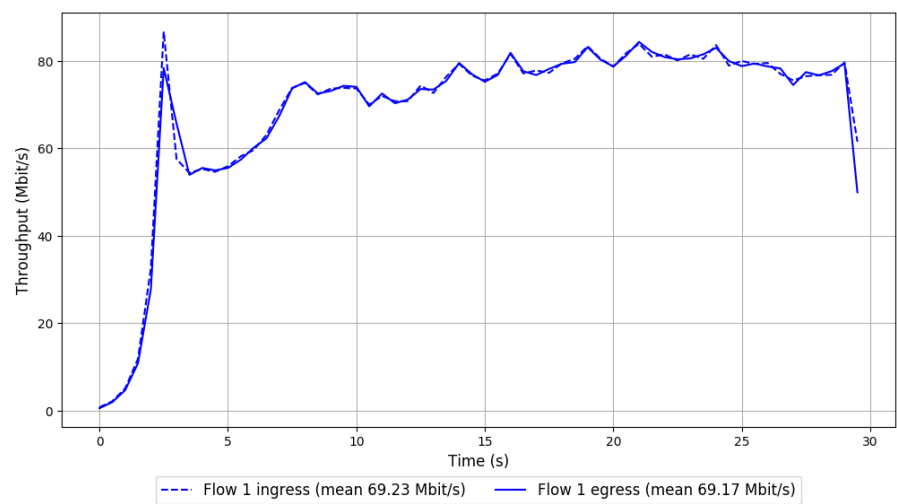


Run 1: Statistics of Vivace-latency

Start at: 2018-03-14 21:07:37
End at: 2018-03-14 21:08:07
Local clock offset: -5.239 ms
Remote clock offset: -3.097 ms

Below is generated by plot.py at 2018-03-15 05:02:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 69.17 Mbit/s
95th percentile per-packet one-way delay: 68.474 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 69.17 Mbit/s
95th percentile per-packet one-way delay: 68.474 ms
Loss rate: 0.51%

Run 1: Report of Vivace-latency — Data Link

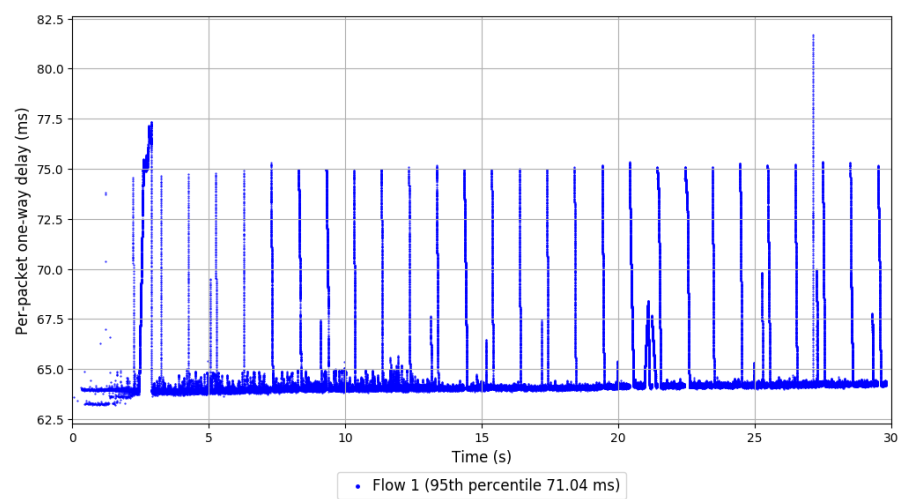
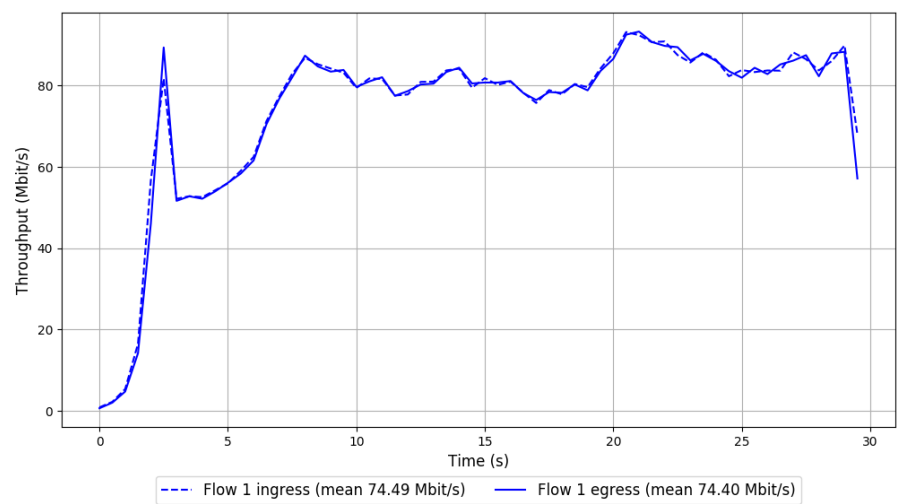


Run 2: Statistics of Vivace-latency

Start at: 2018-03-14 21:31:25
End at: 2018-03-14 21:31:55
Local clock offset: -5.669 ms
Remote clock offset: -4.425 ms

Below is generated by plot.py at 2018-03-15 05:02:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.40 Mbit/s
95th percentile per-packet one-way delay: 71.044 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 74.40 Mbit/s
95th percentile per-packet one-way delay: 71.044 ms
Loss rate: 0.55%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-03-14 21:54:55

End at: 2018-03-14 21:55:25

Local clock offset: -6.085 ms

Remote clock offset: 0.651 ms

Below is generated by plot.py at 2018-03-15 05:02:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.79 Mbit/s

95th percentile per-packet one-way delay: 71.591 ms

Loss rate: 0.55%

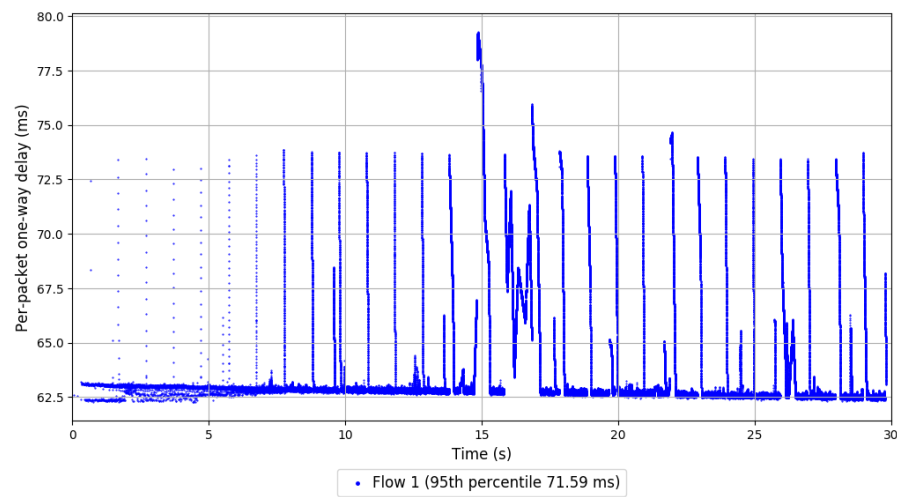
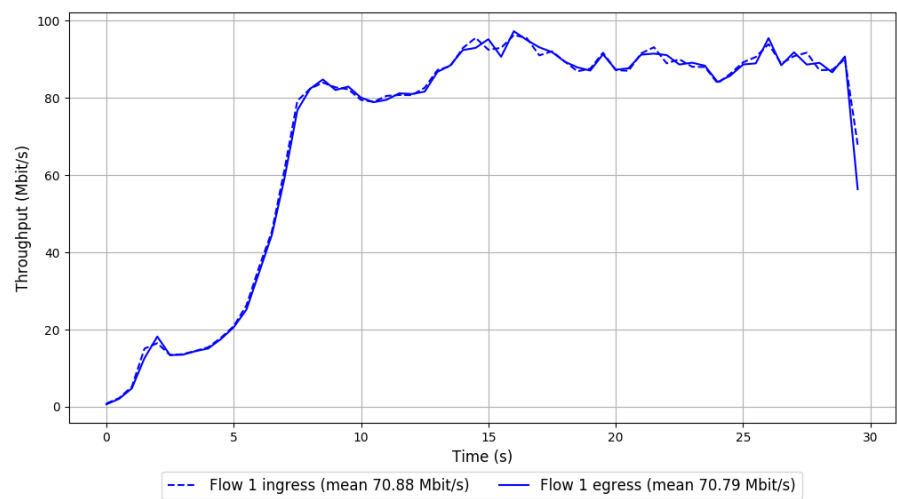
-- Flow 1:

Average throughput: 70.79 Mbit/s

95th percentile per-packet one-way delay: 71.591 ms

Loss rate: 0.55%

Run 3: Report of Vivace-latency — Data Link

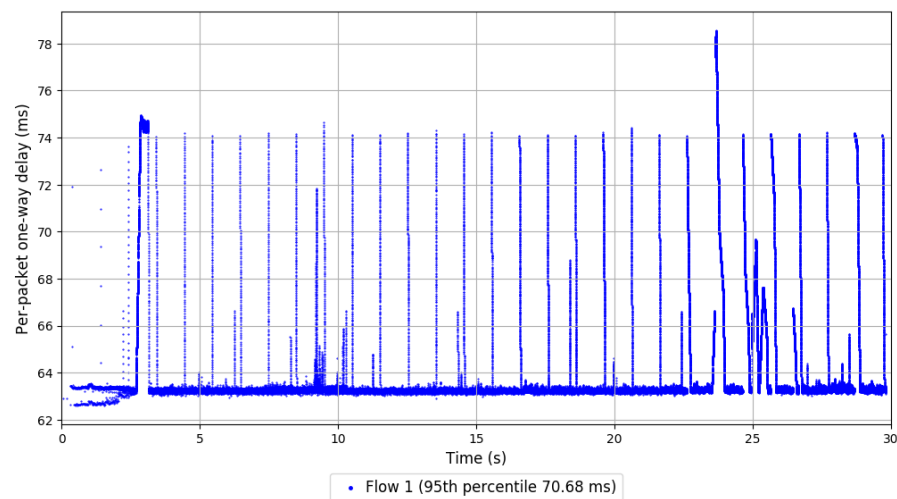
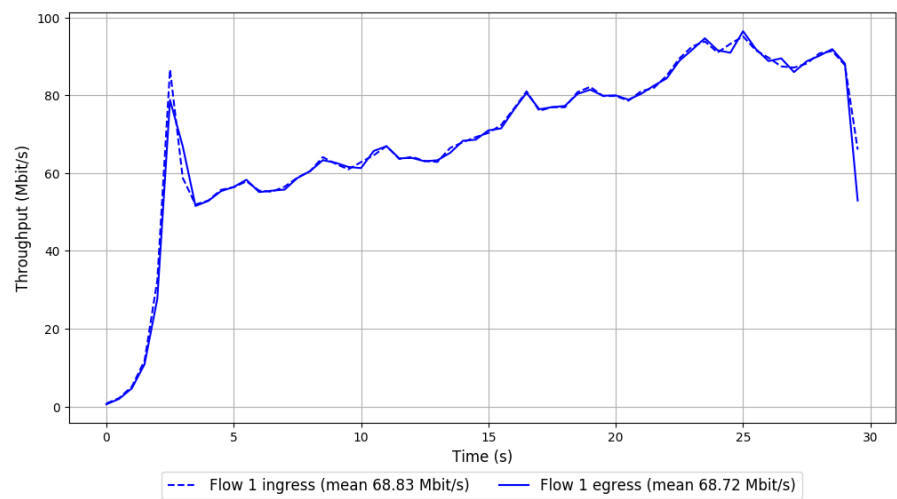


Run 4: Statistics of Vivace-latency

Start at: 2018-03-14 22:18:20
End at: 2018-03-14 22:18:50
Local clock offset: 1.943 ms
Remote clock offset: -6.273 ms

Below is generated by plot.py at 2018-03-15 05:02:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 68.72 Mbit/s
95th percentile per-packet one-way delay: 70.681 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 68.72 Mbit/s
95th percentile per-packet one-way delay: 70.681 ms
Loss rate: 0.58%

Run 4: Report of Vivace-latency — Data Link

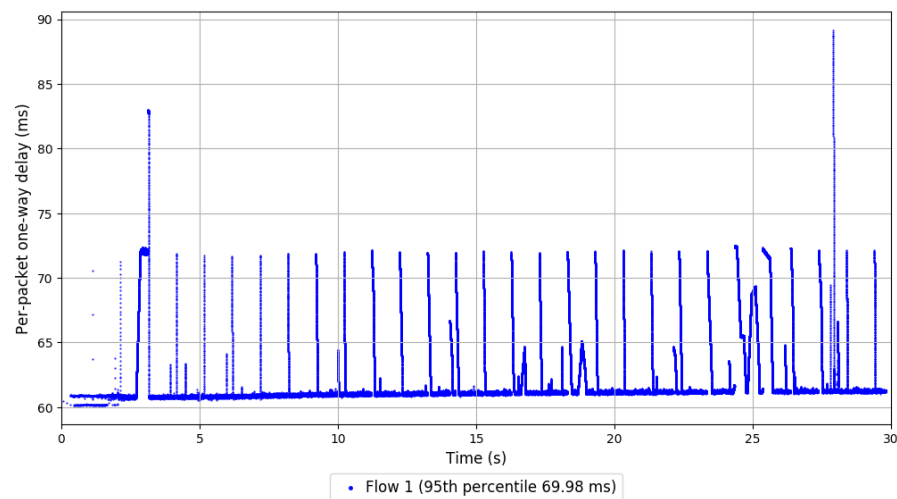
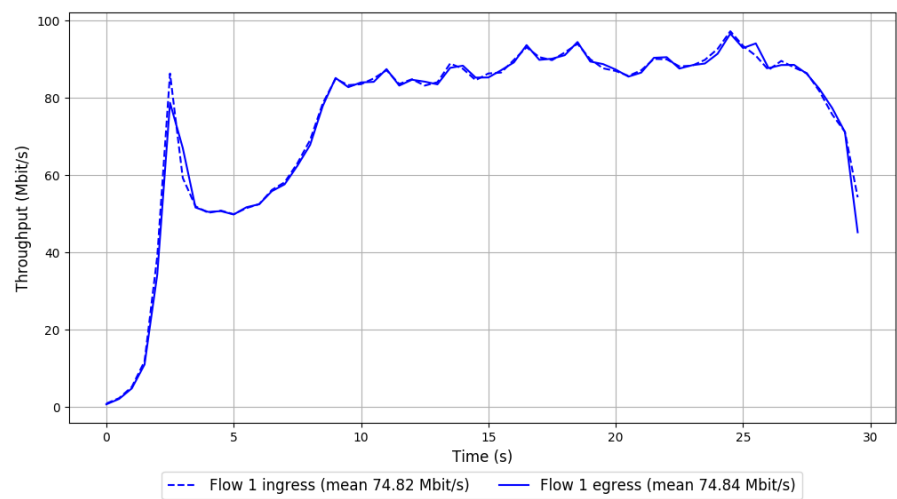


Run 5: Statistics of Vivace-latency

Start at: 2018-03-14 22:41:38
End at: 2018-03-14 22:42:08
Local clock offset: -3.585 ms
Remote clock offset: -7.421 ms

Below is generated by plot.py at 2018-03-15 05:03:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.84 Mbit/s
95th percentile per-packet one-way delay: 69.978 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 74.84 Mbit/s
95th percentile per-packet one-way delay: 69.978 ms
Loss rate: 0.40%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-03-14 23:04:55

End at: 2018-03-14 23:05:25

Local clock offset: -0.367 ms

Remote clock offset: 0.689 ms

Below is generated by plot.py at 2018-03-15 05:03:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.03 Mbit/s

95th percentile per-packet one-way delay: 73.550 ms

Loss rate: 0.55%

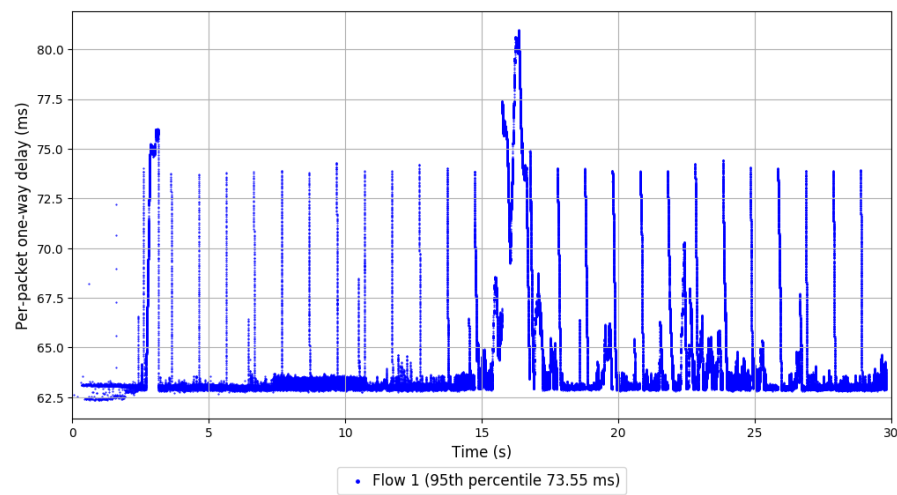
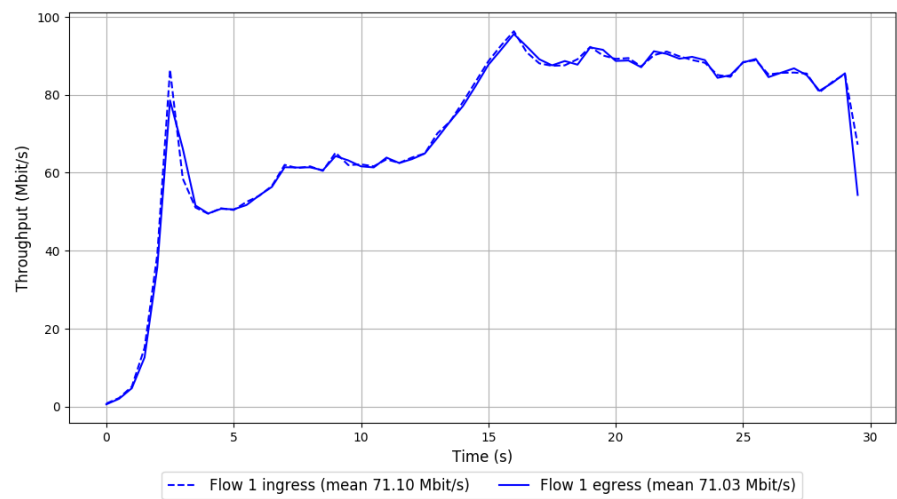
-- Flow 1:

Average throughput: 71.03 Mbit/s

95th percentile per-packet one-way delay: 73.550 ms

Loss rate: 0.55%

Run 6: Report of Vivace-latency — Data Link

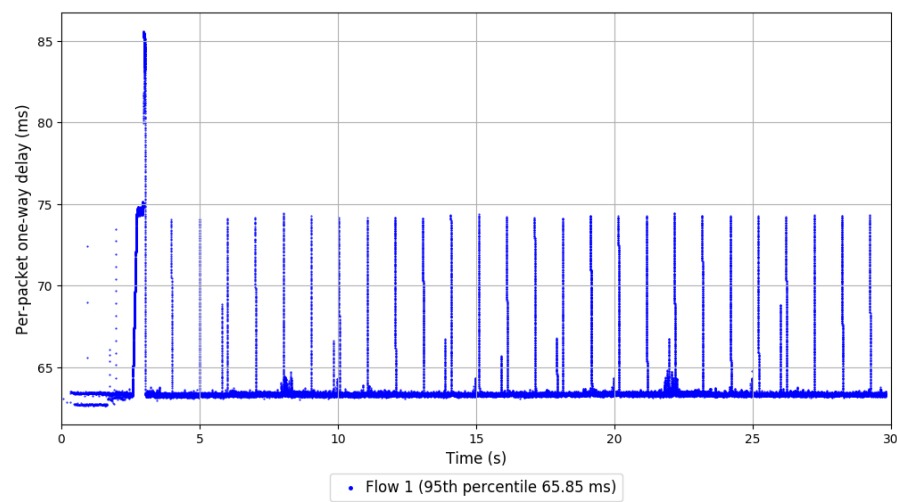
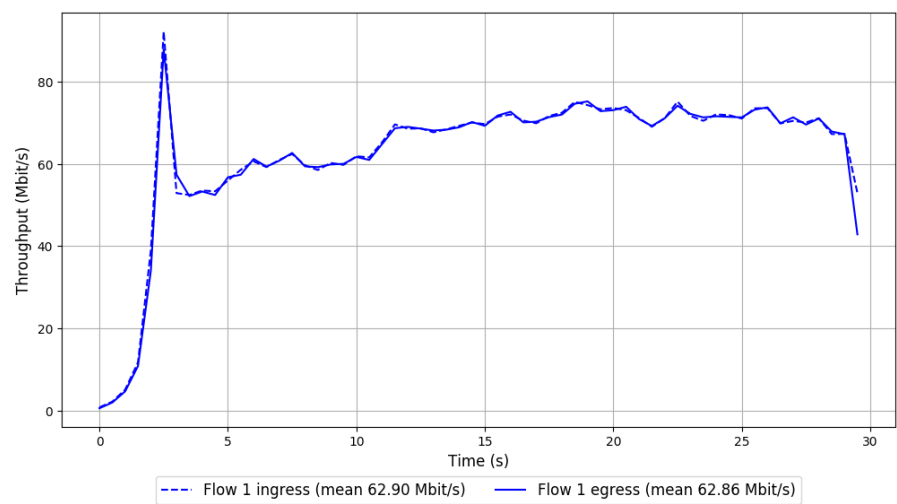


Run 7: Statistics of Vivace-latency

Start at: 2018-03-14 23:28:14
End at: 2018-03-14 23:28:44
Local clock offset: 2.241 ms
Remote clock offset: -0.057 ms

Below is generated by plot.py at 2018-03-15 05:03:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 62.86 Mbit/s
95th percentile per-packet one-way delay: 65.854 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 62.86 Mbit/s
95th percentile per-packet one-way delay: 65.854 ms
Loss rate: 0.49%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-03-14 23:51:31

End at: 2018-03-14 23:52:01

Local clock offset: 4.616 ms

Remote clock offset: 0.139 ms

Below is generated by plot.py at 2018-03-15 05:03:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.11 Mbit/s

95th percentile per-packet one-way delay: 70.822 ms

Loss rate: 0.50%

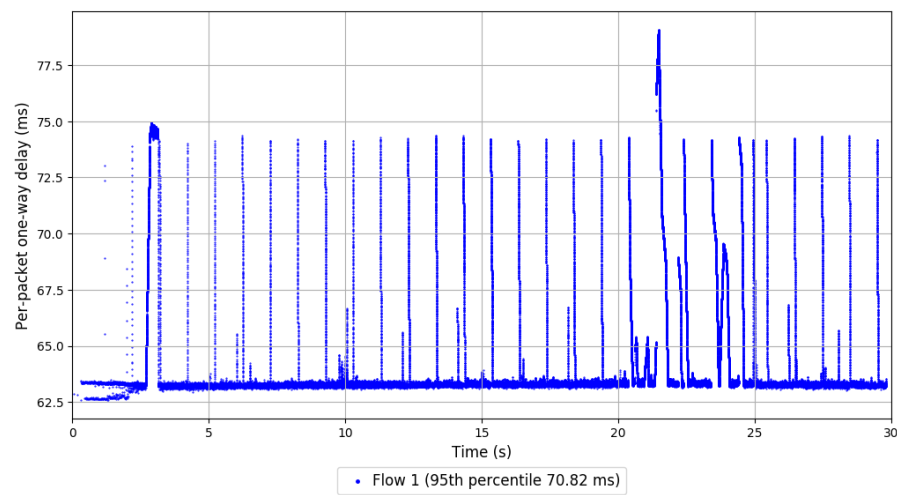
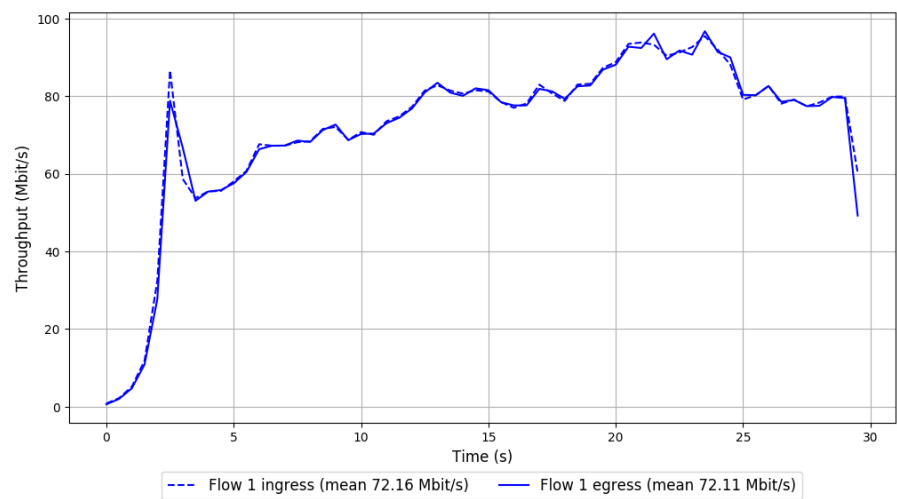
-- Flow 1:

Average throughput: 72.11 Mbit/s

95th percentile per-packet one-way delay: 70.822 ms

Loss rate: 0.50%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-03-15 00:14:48

End at: 2018-03-15 00:15:18

Local clock offset: 5.442 ms

Remote clock offset: 0.287 ms

Below is generated by plot.py at 2018-03-15 05:03:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.59 Mbit/s

95th percentile per-packet one-way delay: 94.628 ms

Loss rate: 0.64%

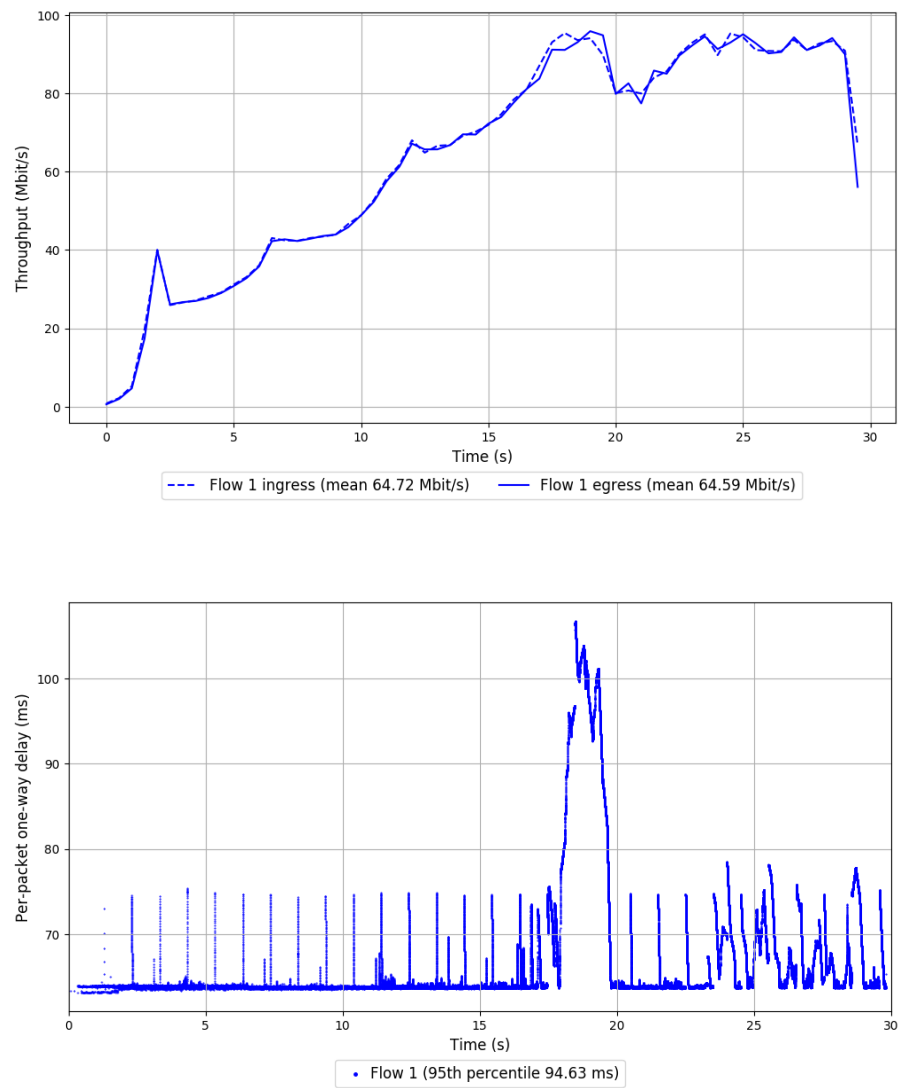
-- Flow 1:

Average throughput: 64.59 Mbit/s

95th percentile per-packet one-way delay: 94.628 ms

Loss rate: 0.64%

Run 9: Report of Vivace-latency — Data Link

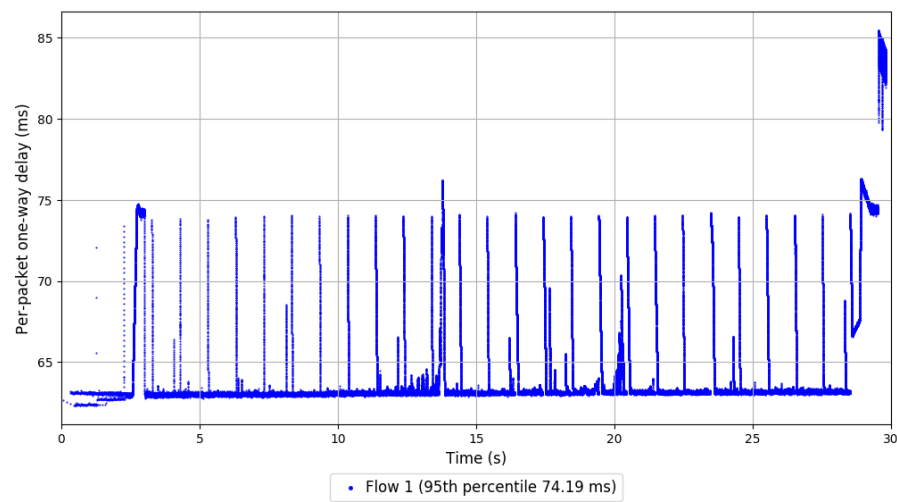
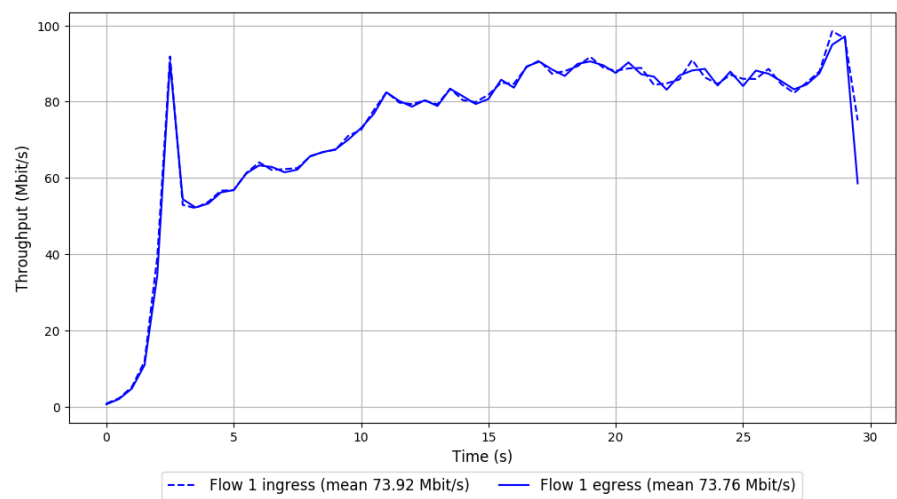


Run 10: Statistics of Vivace-latency

Start at: 2018-03-15 00:38:53
End at: 2018-03-15 00:39:23
Local clock offset: 5.904 ms
Remote clock offset: 10.329 ms

Below is generated by plot.py at 2018-03-15 05:03:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.76 Mbit/s
95th percentile per-packet one-way delay: 74.193 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 73.76 Mbit/s
95th percentile per-packet one-way delay: 74.193 ms
Loss rate: 0.70%

Run 10: Report of Vivace-latency — Data Link

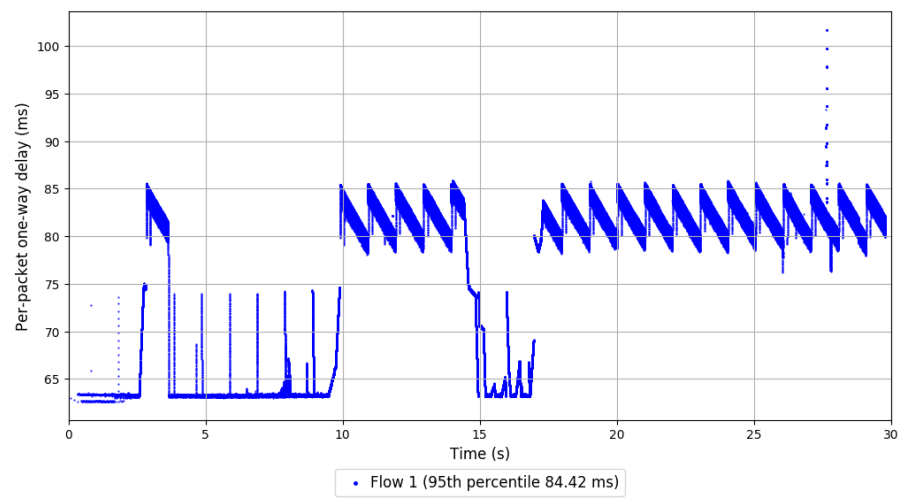
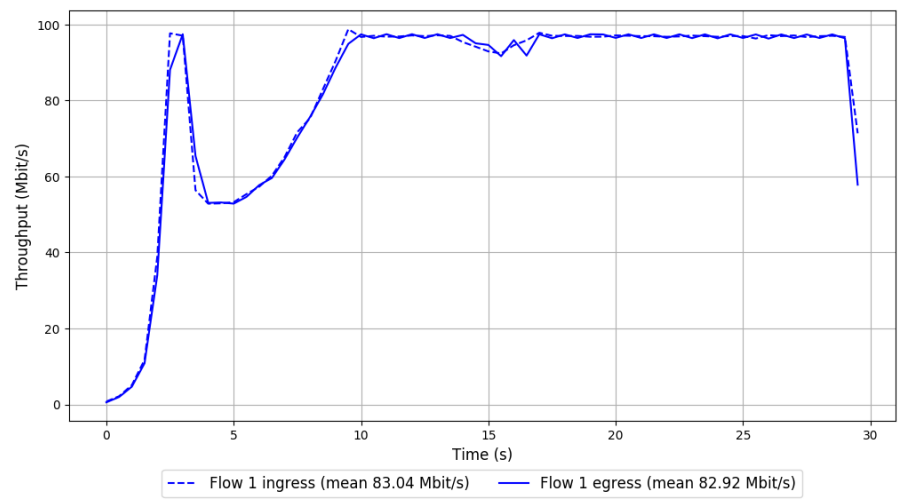


Run 1: Statistics of Vivace-loss

Start at: 2018-03-14 20:54:03
End at: 2018-03-14 20:54:33
Local clock offset: -2.067 ms
Remote clock offset: -0.676 ms

Below is generated by plot.py at 2018-03-15 05:03:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.92 Mbit/s
95th percentile per-packet one-way delay: 84.424 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 82.92 Mbit/s
95th percentile per-packet one-way delay: 84.424 ms
Loss rate: 0.59%

Run 1: Report of Vivace-loss — Data Link

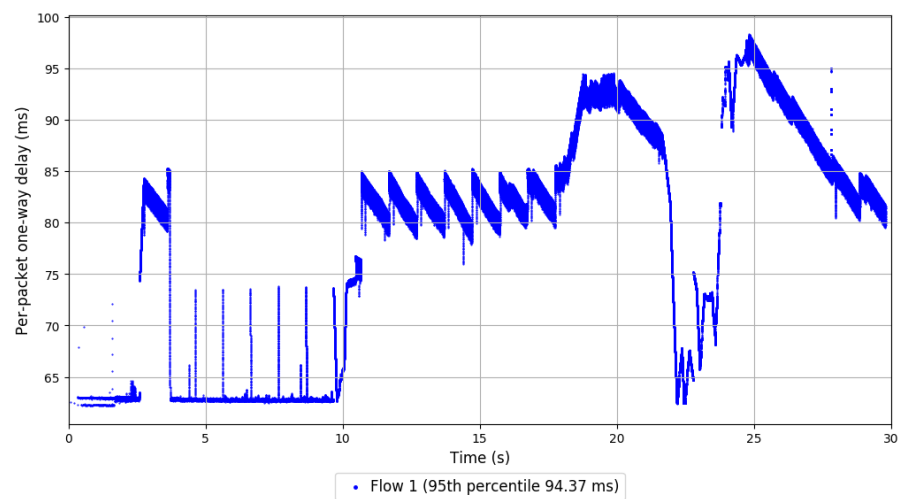
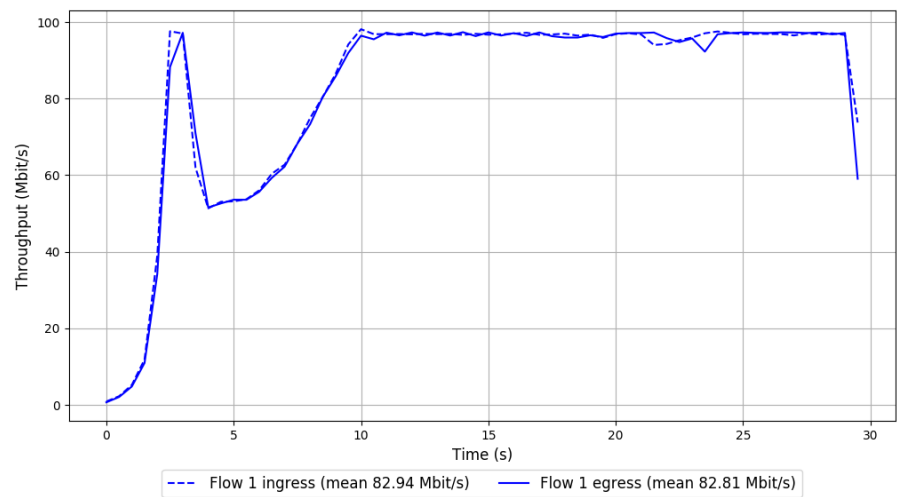


Run 2: Statistics of Vivace-loss

Start at: 2018-03-14 21:17:21
End at: 2018-03-14 21:17:51
Local clock offset: -10.575 ms
Remote clock offset: -3.91 ms

Below is generated by plot.py at 2018-03-15 05:04:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.81 Mbit/s
95th percentile per-packet one-way delay: 94.369 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 82.81 Mbit/s
95th percentile per-packet one-way delay: 94.369 ms
Loss rate: 0.61%

Run 2: Report of Vivace-loss — Data Link

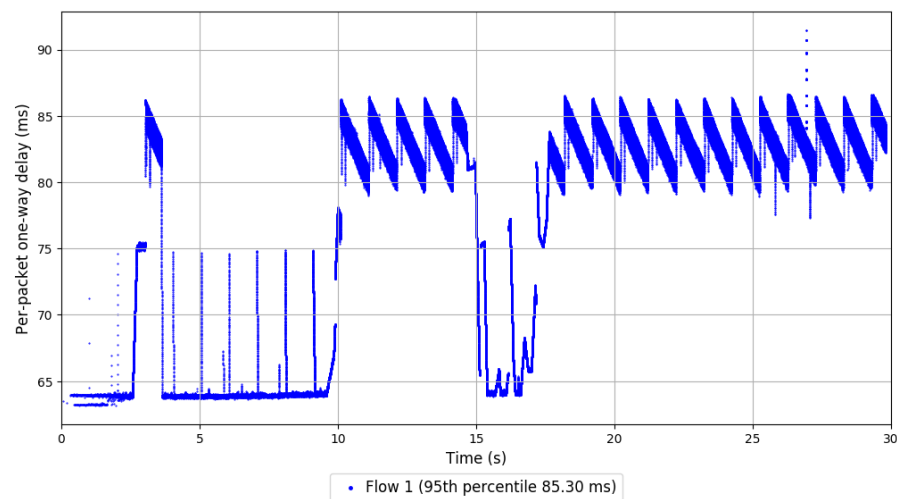
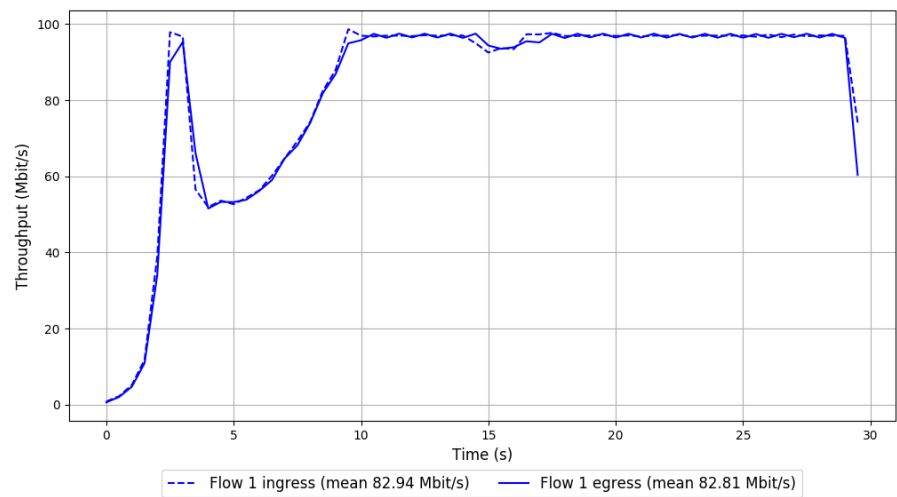


Run 3: Statistics of Vivace-loss

Start at: 2018-03-14 21:41:18
End at: 2018-03-14 21:41:48
Local clock offset: -8.353 ms
Remote clock offset: -1.126 ms

Below is generated by plot.py at 2018-03-15 05:04:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.81 Mbit/s
95th percentile per-packet one-way delay: 85.295 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 82.81 Mbit/s
95th percentile per-packet one-way delay: 85.295 ms
Loss rate: 0.61%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-03-14 22:04:37

End at: 2018-03-14 22:05:08

Local clock offset: 0.859 ms

Remote clock offset: 1.379 ms

Below is generated by plot.py at 2018-03-15 05:04:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.22 Mbit/s

95th percentile per-packet one-way delay: 93.991 ms

Loss rate: 0.82%

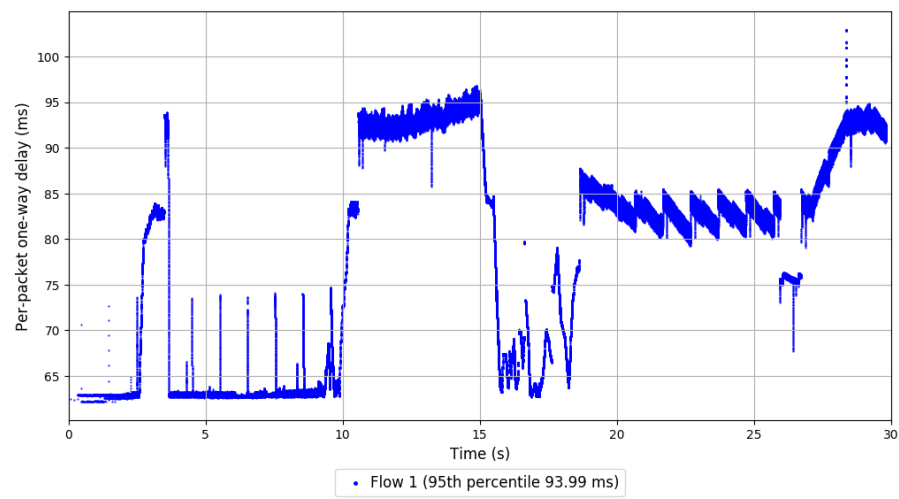
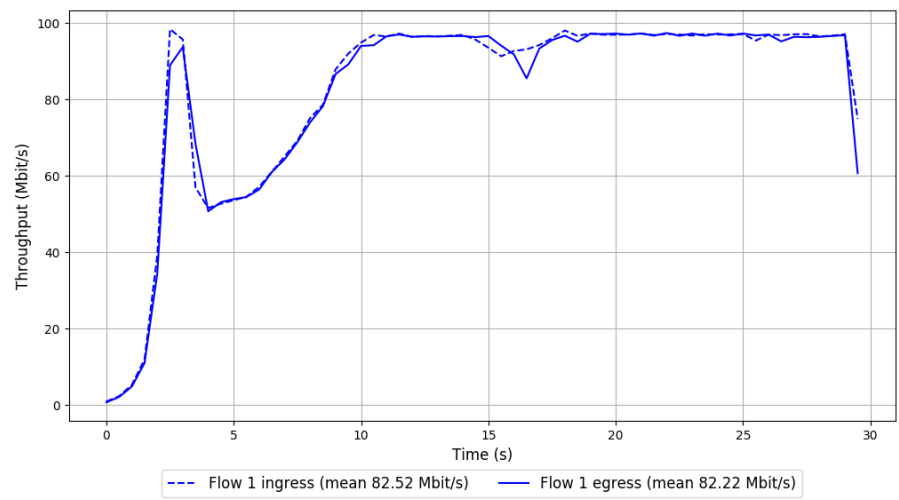
-- Flow 1:

Average throughput: 82.22 Mbit/s

95th percentile per-packet one-way delay: 93.991 ms

Loss rate: 0.82%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-03-14 22:28:03

End at: 2018-03-14 22:28:33

Local clock offset: 0.894 ms

Remote clock offset: -8.058 ms

Below is generated by plot.py at 2018-03-15 05:04:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.70 Mbit/s

95th percentile per-packet one-way delay: 84.589 ms

Loss rate: 0.62%

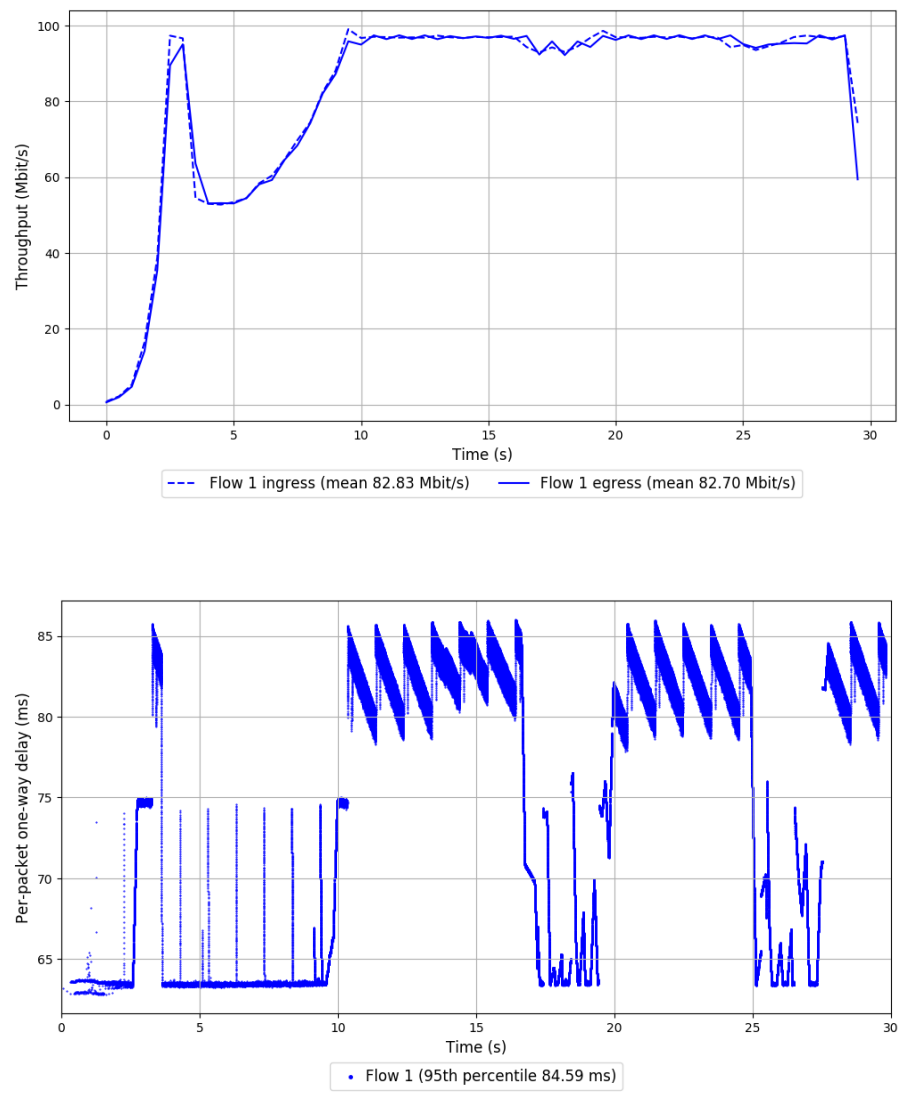
-- Flow 1:

Average throughput: 82.70 Mbit/s

95th percentile per-packet one-way delay: 84.589 ms

Loss rate: 0.62%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-03-14 22:51:21

End at: 2018-03-14 22:51:51

Local clock offset: -2.366 ms

Remote clock offset: -2.22 ms

Below is generated by plot.py at 2018-03-15 05:04:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.93 Mbit/s

95th percentile per-packet one-way delay: 84.712 ms

Loss rate: 0.61%

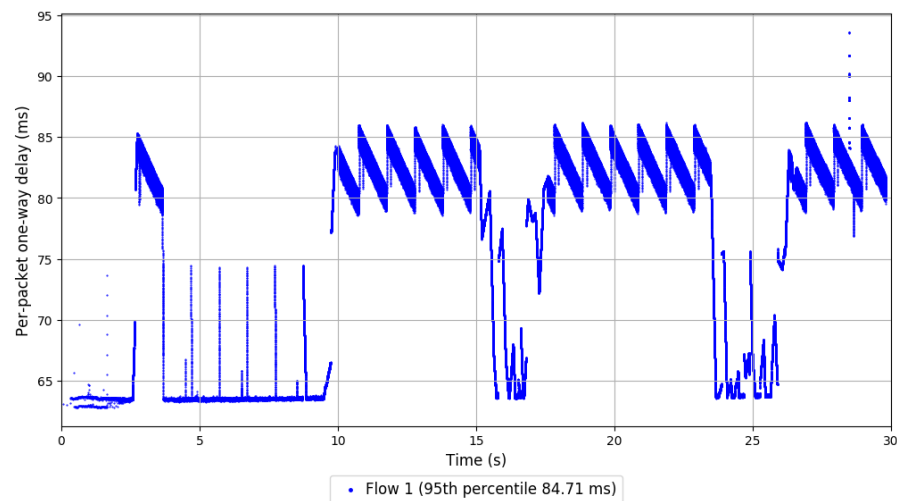
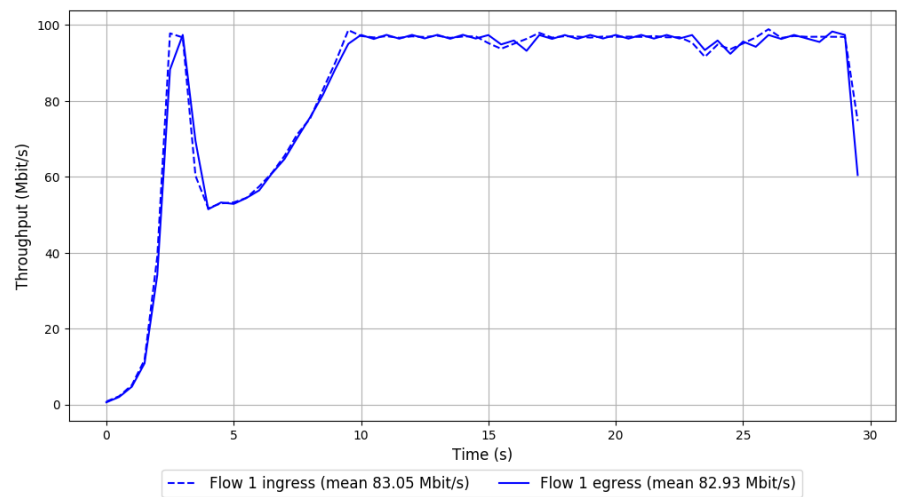
-- Flow 1:

Average throughput: 82.93 Mbit/s

95th percentile per-packet one-way delay: 84.712 ms

Loss rate: 0.61%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-03-14 23:14:39

End at: 2018-03-14 23:15:09

Local clock offset: 1.759 ms

Remote clock offset: 1.616 ms

Below is generated by plot.py at 2018-03-15 05:04:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.43 Mbit/s

95th percentile per-packet one-way delay: 86.411 ms

Loss rate: 0.61%

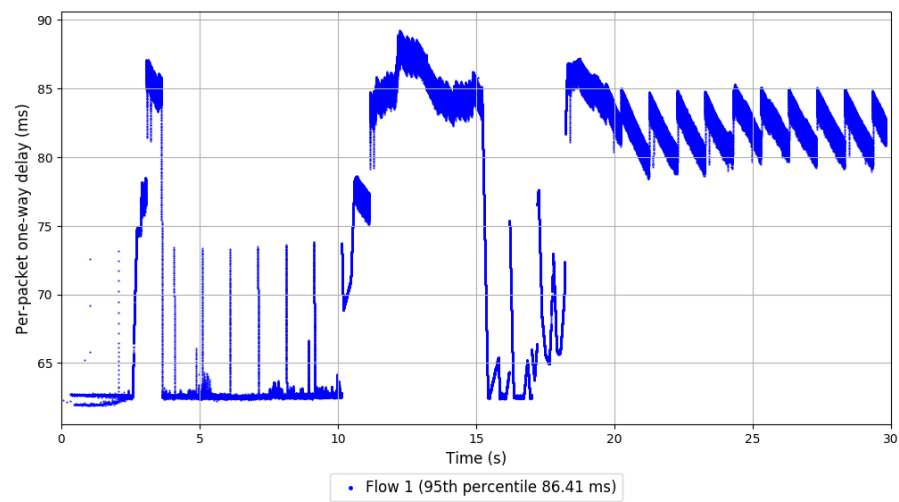
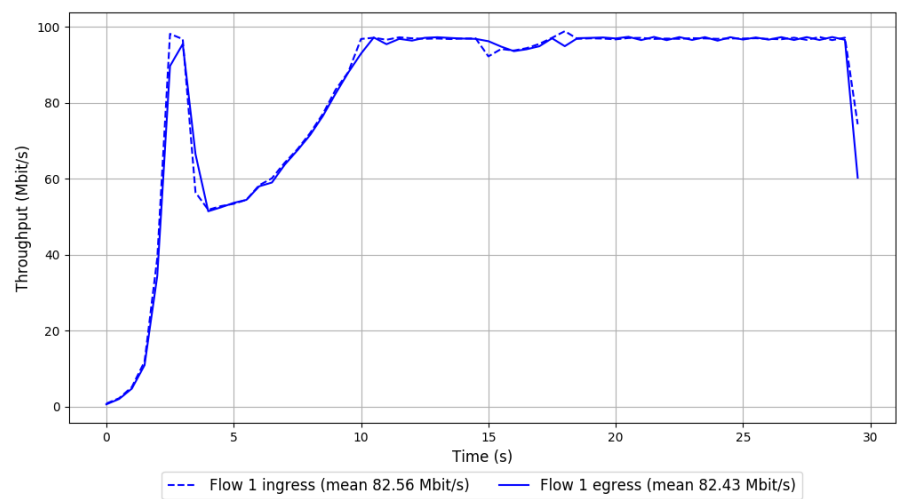
-- Flow 1:

Average throughput: 82.43 Mbit/s

95th percentile per-packet one-way delay: 86.411 ms

Loss rate: 0.61%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-03-14 23:37:57

End at: 2018-03-14 23:38:27

Local clock offset: 3.444 ms

Remote clock offset: 0.083 ms

Below is generated by plot.py at 2018-03-15 05:04:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.84 Mbit/s

95th percentile per-packet one-way delay: 84.578 ms

Loss rate: 0.61%

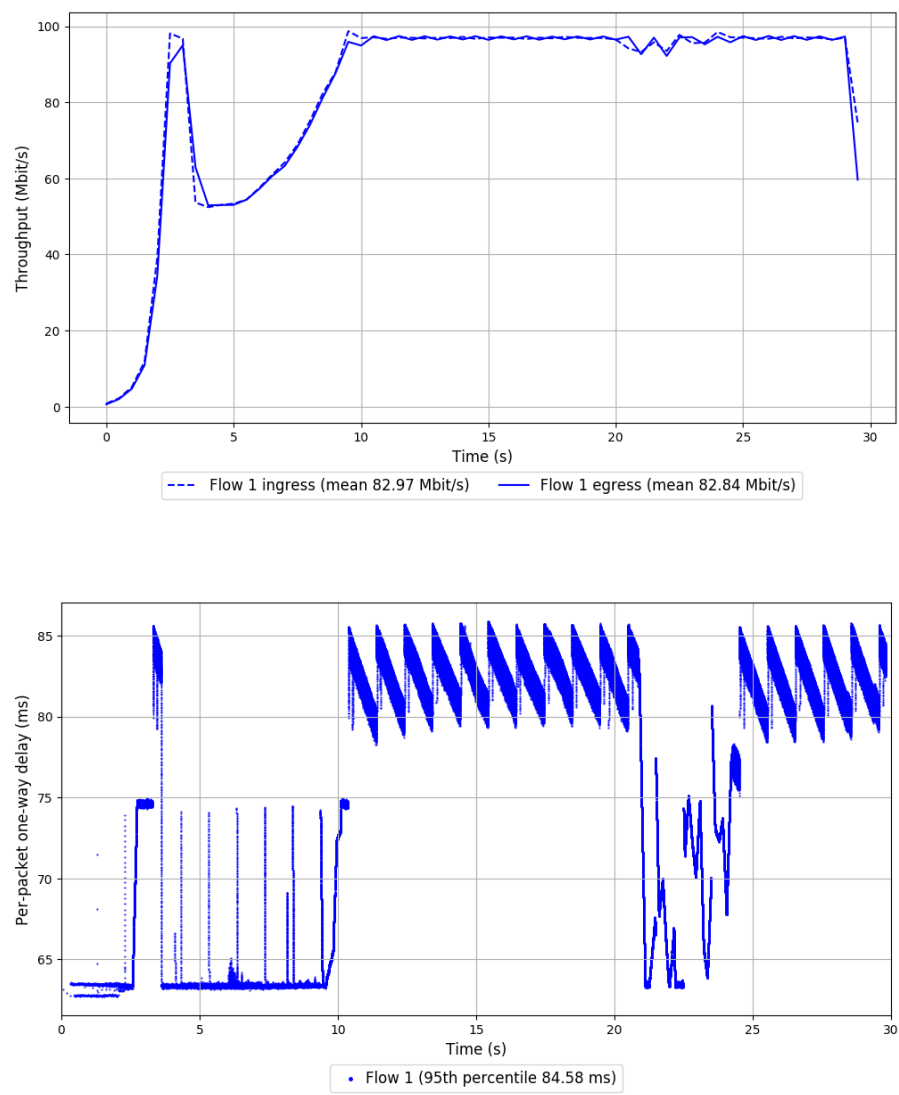
-- Flow 1:

Average throughput: 82.84 Mbit/s

95th percentile per-packet one-way delay: 84.578 ms

Loss rate: 0.61%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-03-15 00:01:15

End at: 2018-03-15 00:01:45

Local clock offset: 5.079 ms

Remote clock offset: 0.096 ms

Below is generated by plot.py at 2018-03-15 05:05:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.76 Mbit/s

95th percentile per-packet one-way delay: 84.642 ms

Loss rate: 0.60%

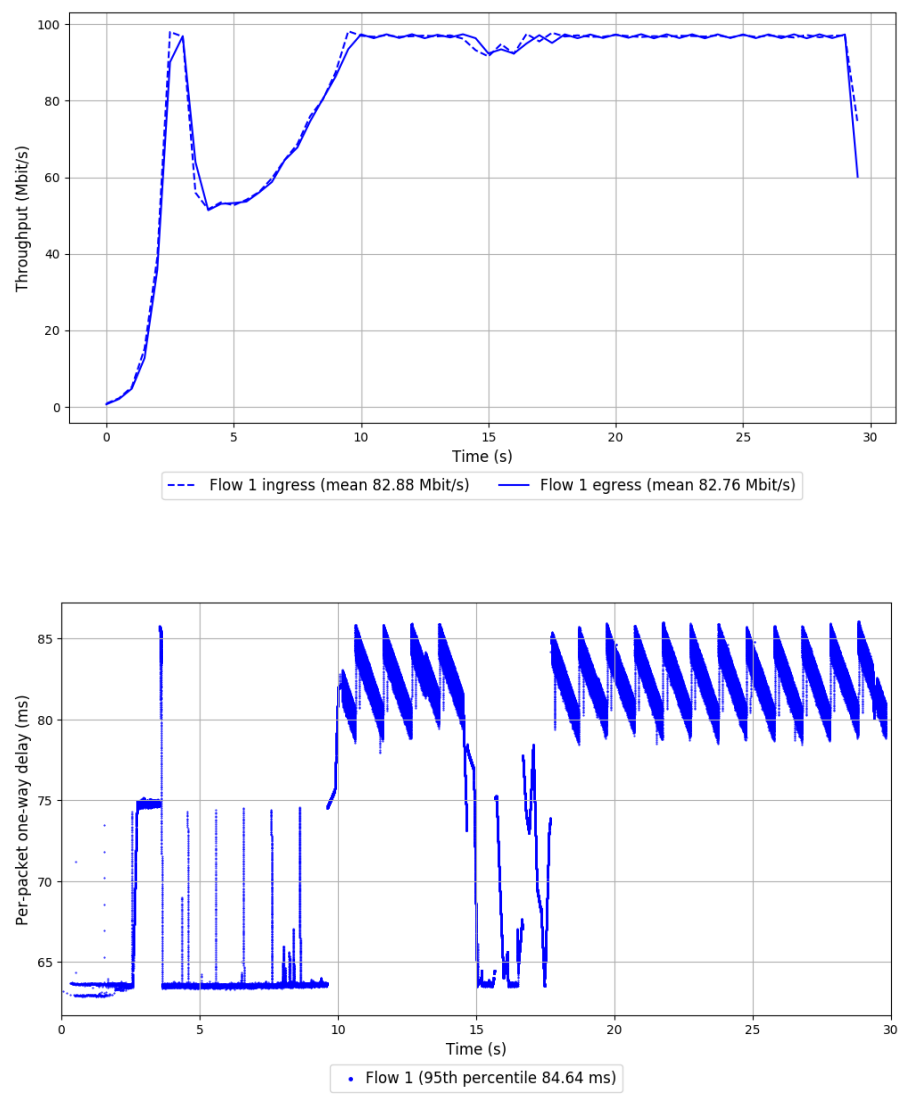
-- Flow 1:

Average throughput: 82.76 Mbit/s

95th percentile per-packet one-way delay: 84.642 ms

Loss rate: 0.60%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-03-15 00:25:18

End at: 2018-03-15 00:25:48

Local clock offset: 5.49 ms

Remote clock offset: 3.906 ms

Below is generated by plot.py at 2018-03-15 05:05:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.67 Mbit/s

95th percentile per-packet one-way delay: 85.278 ms

Loss rate: 0.61%

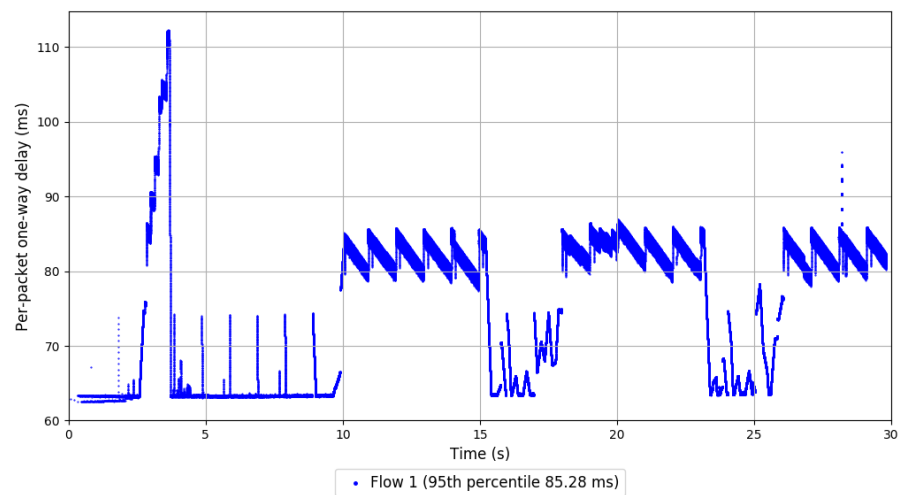
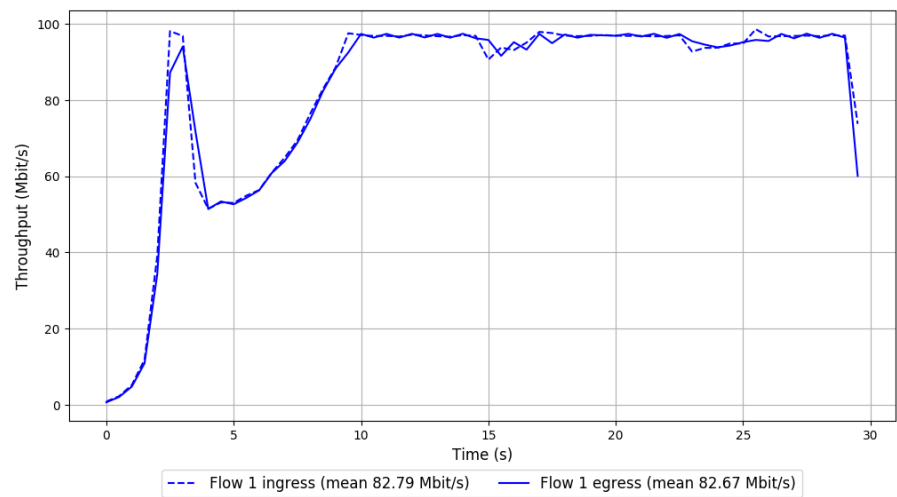
-- Flow 1:

Average throughput: 82.67 Mbit/s

95th percentile per-packet one-way delay: 85.278 ms

Loss rate: 0.61%

Run 10: Report of Vivace-loss — Data Link

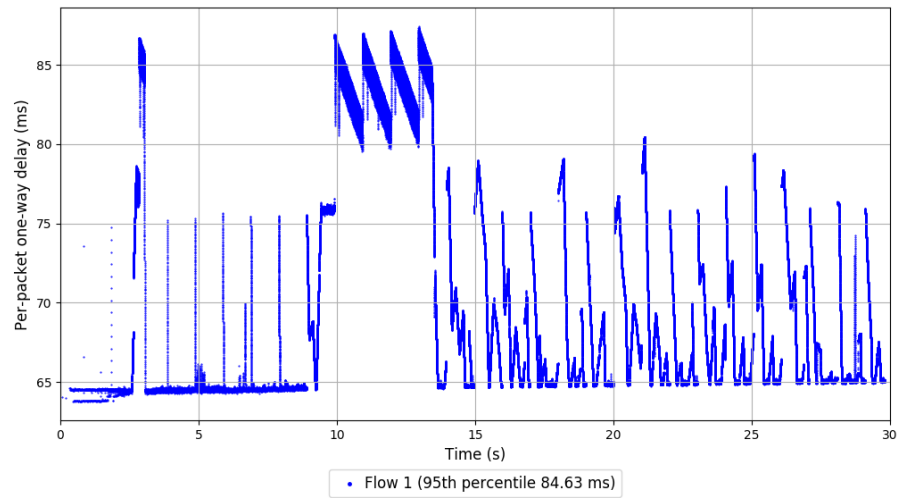
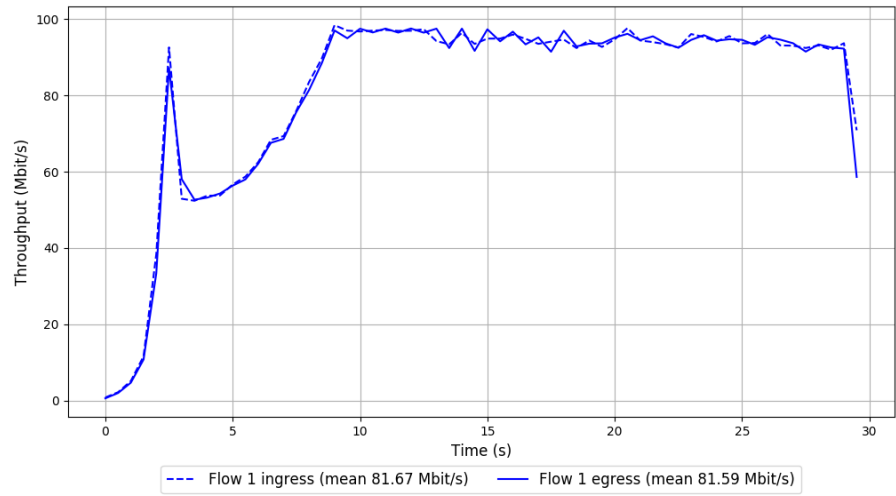


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-03-14 20:47:58
End at: 2018-03-14 20:48:28
Local clock offset: -1.809 ms
Remote clock offset: -0.68 ms

# Below is generated by plot.py at 2018-03-15 05:05:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.59 Mbit/s
95th percentile per-packet one-way delay: 84.633 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 81.59 Mbit/s
95th percentile per-packet one-way delay: 84.633 ms
Loss rate: 0.52%
```

Run 1: Report of Vivace-LTE — Data Link

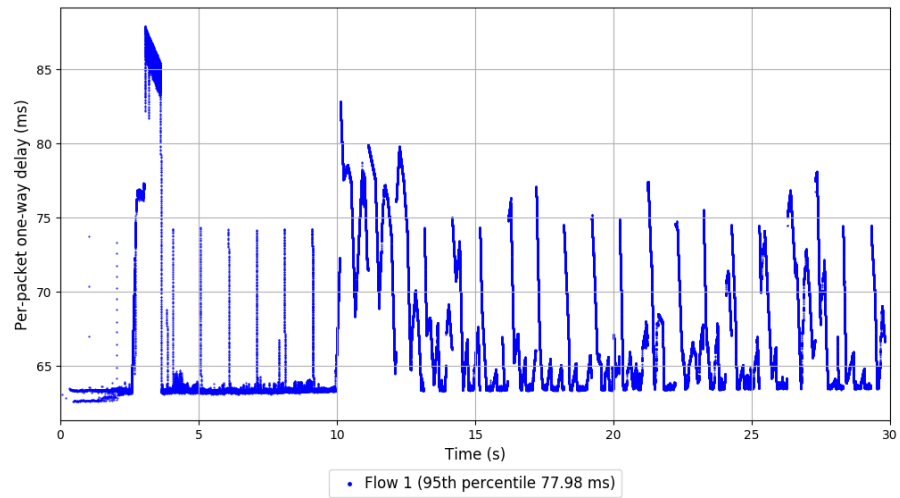
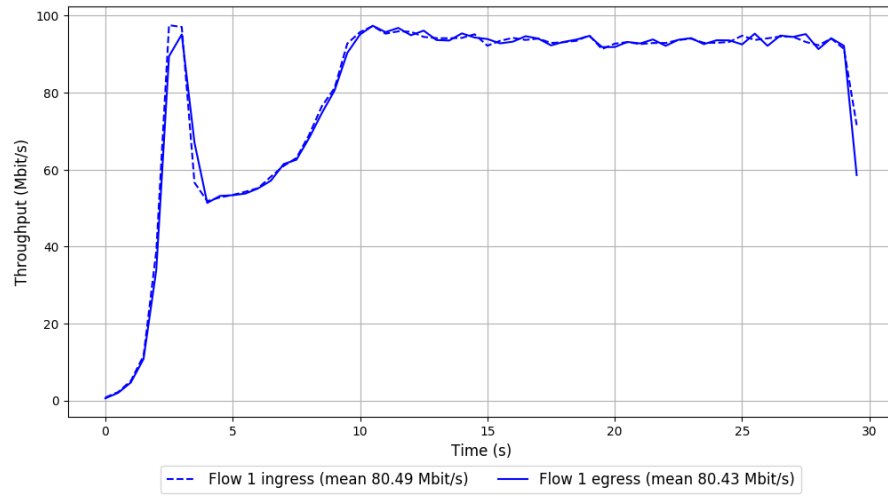


Run 2: Statistics of Vivace-LTE

Start at: 2018-03-14 21:11:14
End at: 2018-03-14 21:11:44
Local clock offset: -7.252 ms
Remote clock offset: -3.454 ms

Below is generated by plot.py at 2018-03-15 05:05:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 80.43 Mbit/s
95th percentile per-packet one-way delay: 77.979 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 80.43 Mbit/s
95th percentile per-packet one-way delay: 77.979 ms
Loss rate: 0.51%

Run 2: Report of Vivace-LTE — Data Link

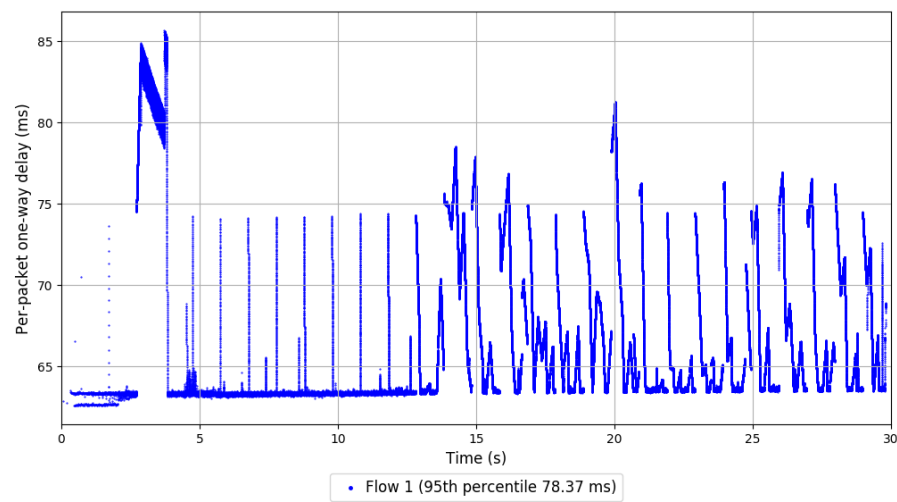
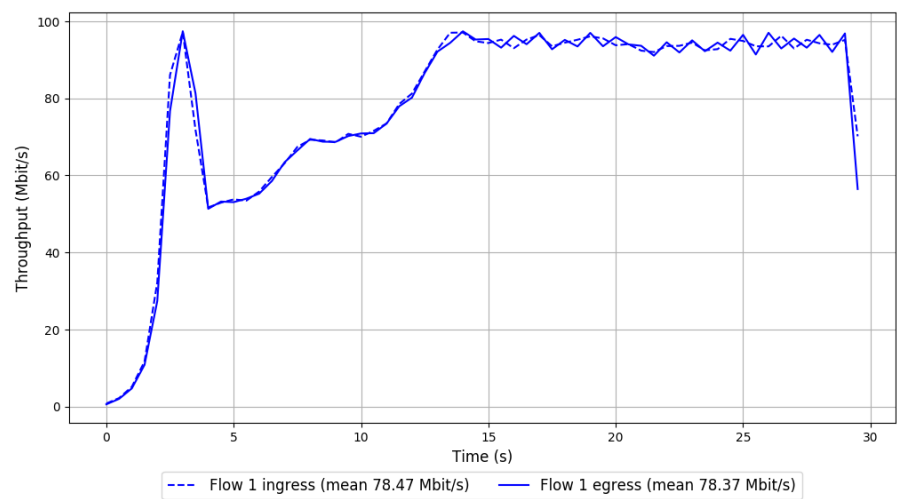


Run 3: Statistics of Vivace-LTE

Start at: 2018-03-14 21:35:08
End at: 2018-03-14 21:35:38
Local clock offset: -6.513 ms
Remote clock offset: -2.868 ms

Below is generated by plot.py at 2018-03-15 05:05:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.37 Mbit/s
95th percentile per-packet one-way delay: 78.372 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 78.37 Mbit/s
95th percentile per-packet one-way delay: 78.372 ms
Loss rate: 0.55%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-03-14 21:58:32

End at: 2018-03-14 21:59:02

Local clock offset: -2.29 ms

Remote clock offset: 0.92 ms

Below is generated by plot.py at 2018-03-15 05:05:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.43 Mbit/s

95th percentile per-packet one-way delay: 74.317 ms

Loss rate: 0.54%

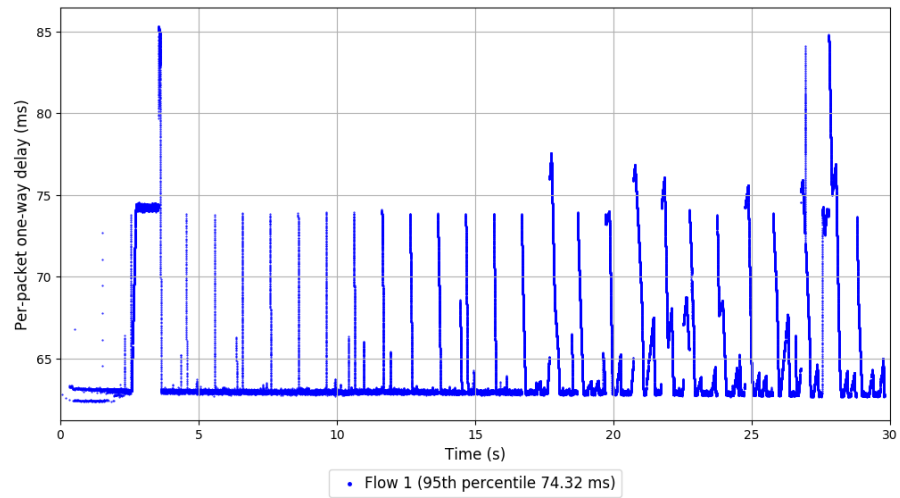
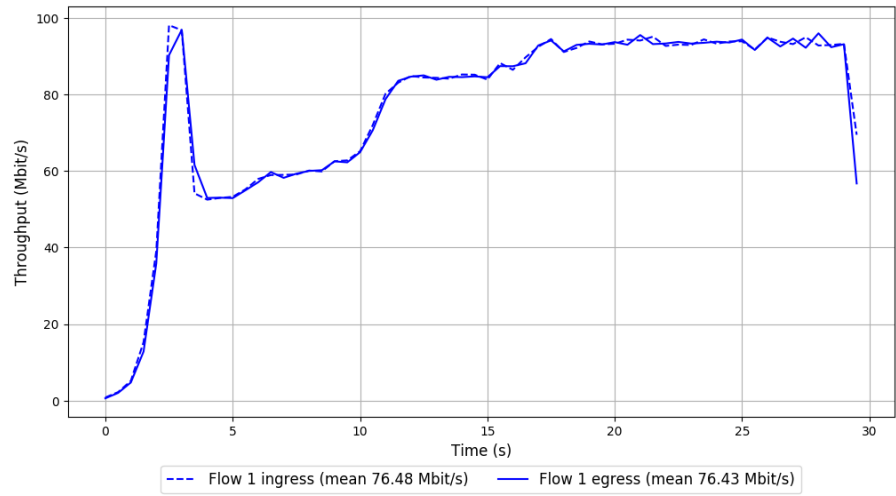
-- Flow 1:

Average throughput: 76.43 Mbit/s

95th percentile per-packet one-way delay: 74.317 ms

Loss rate: 0.54%

Run 4: Report of Vivace-LTE — Data Link

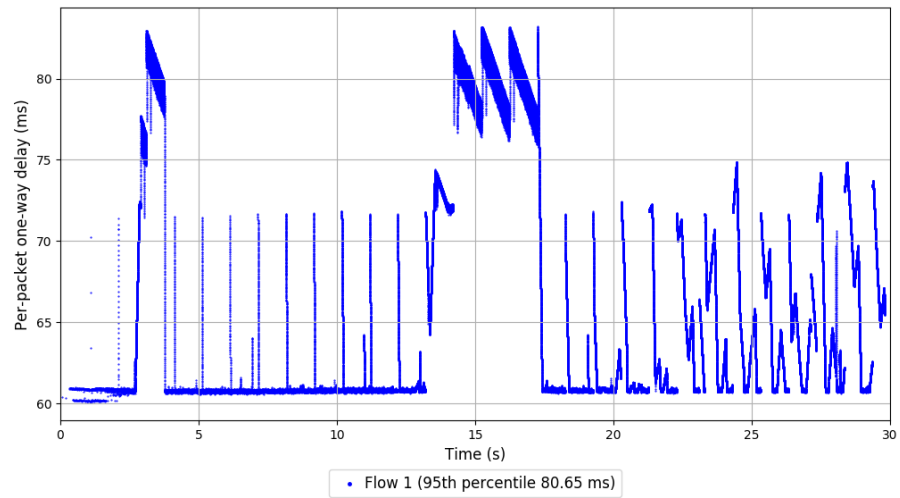
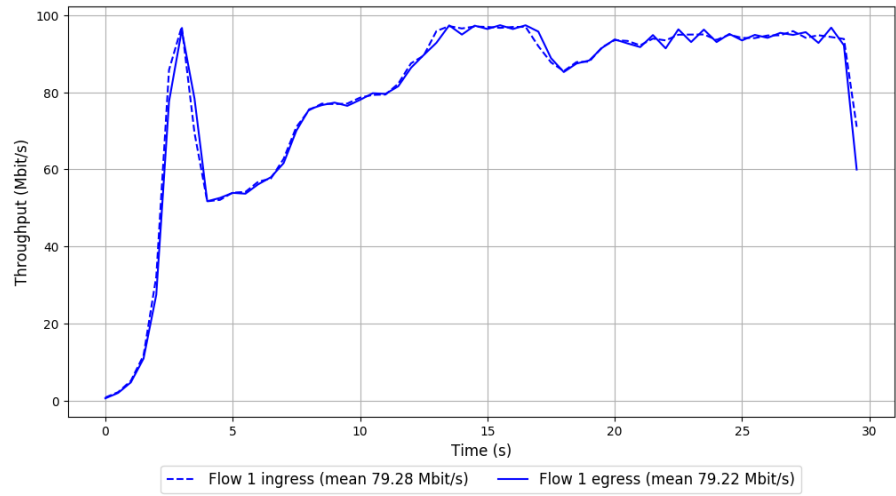


Run 5: Statistics of Vivace-LTE

Start at: 2018-03-14 22:21:57
End at: 2018-03-14 22:22:27
Local clock offset: -1.228 ms
Remote clock offset: -7.036 ms

Below is generated by plot.py at 2018-03-15 05:05:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.22 Mbit/s
95th percentile per-packet one-way delay: 80.646 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 79.22 Mbit/s
95th percentile per-packet one-way delay: 80.646 ms
Loss rate: 0.51%

Run 5: Report of Vivace-LTE — Data Link

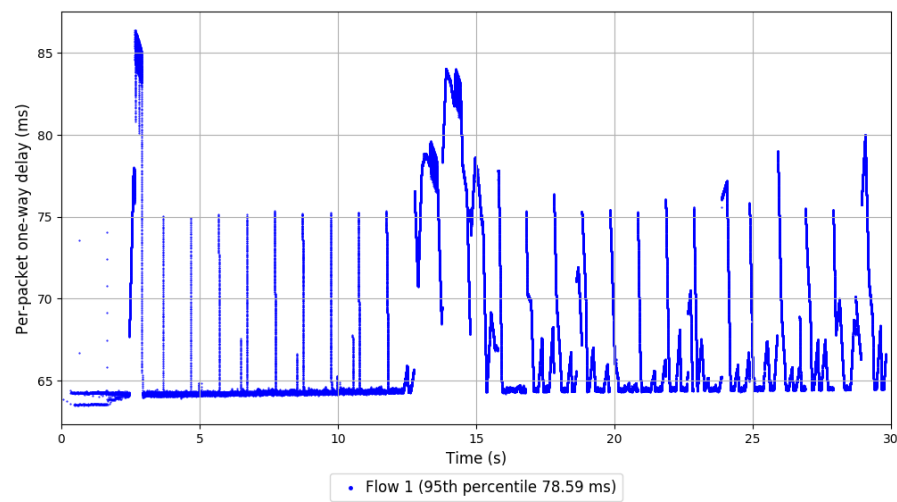
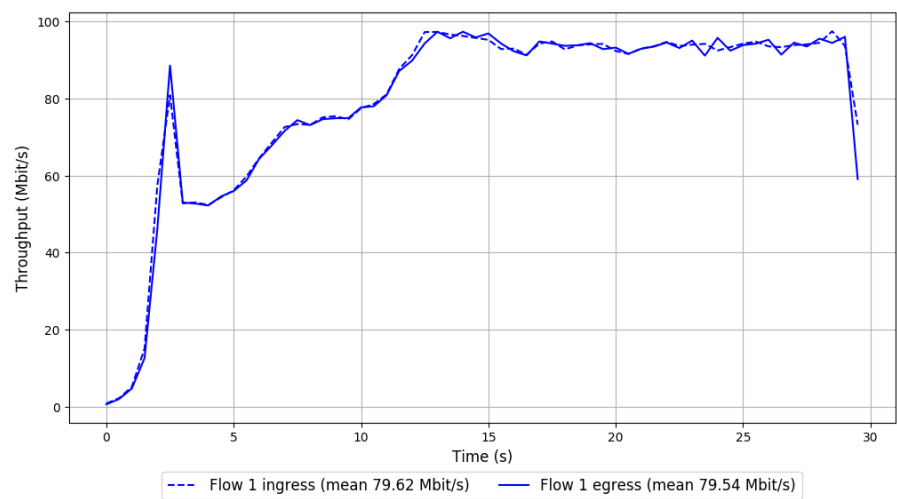


Run 6: Statistics of Vivace-LTE

Start at: 2018-03-14 22:45:15
End at: 2018-03-14 22:45:45
Local clock offset: -1.079 ms
Remote clock offset: -4.928 ms

Below is generated by plot.py at 2018-03-15 05:06:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.54 Mbit/s
95th percentile per-packet one-way delay: 78.594 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 79.54 Mbit/s
95th percentile per-packet one-way delay: 78.594 ms
Loss rate: 0.57%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-03-14 23:08:33

End at: 2018-03-14 23:09:03

Local clock offset: 0.949 ms

Remote clock offset: 1.243 ms

Below is generated by plot.py at 2018-03-15 05:06:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.80 Mbit/s

95th percentile per-packet one-way delay: 83.078 ms

Loss rate: 0.53%

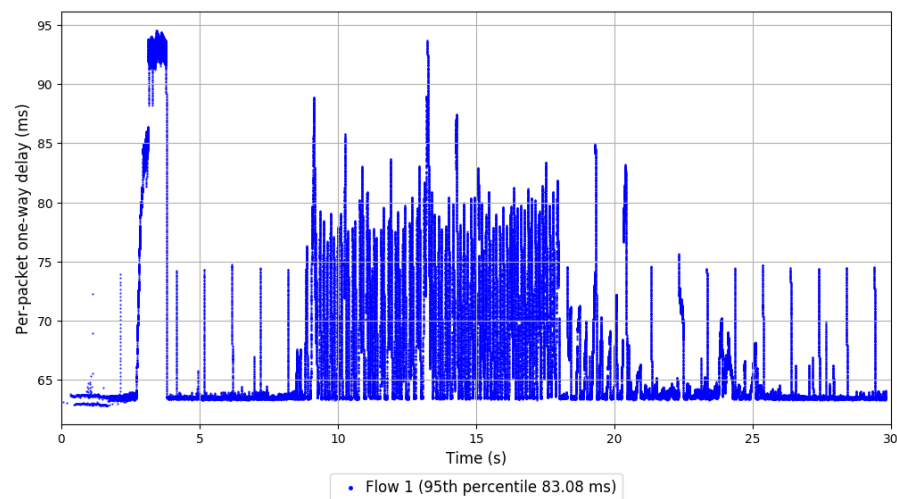
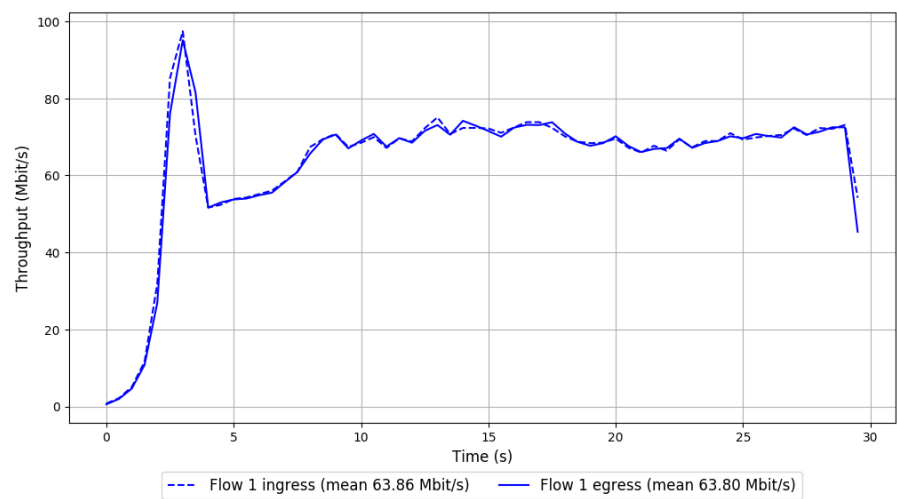
-- Flow 1:

Average throughput: 63.80 Mbit/s

95th percentile per-packet one-way delay: 83.078 ms

Loss rate: 0.53%

Run 7: Report of Vivace-LTE — Data Link

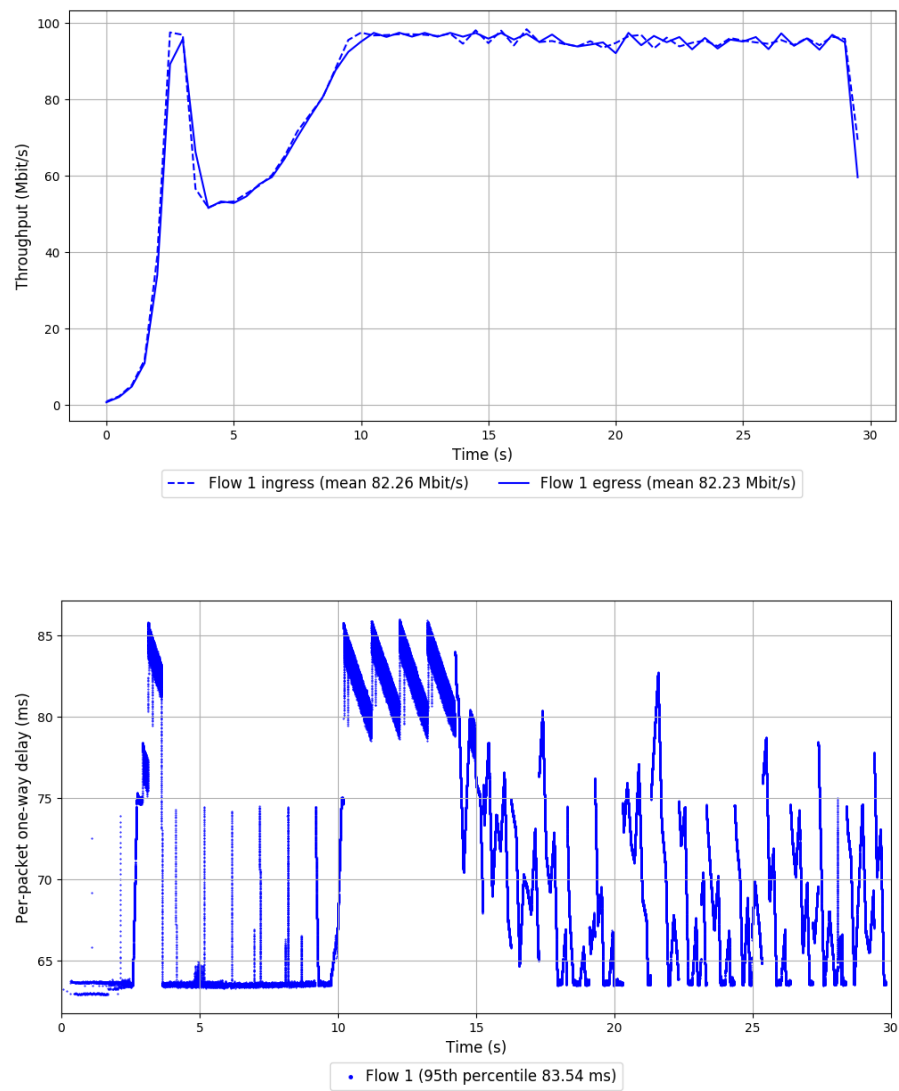


Run 8: Statistics of Vivace-LTE

Start at: 2018-03-14 23:31:51
End at: 2018-03-14 23:32:21
Local clock offset: 2.387 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-03-15 05:06:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.23 Mbit/s
95th percentile per-packet one-way delay: 83.537 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 82.23 Mbit/s
95th percentile per-packet one-way delay: 83.537 ms
Loss rate: 0.49%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-03-14 23:55:09

End at: 2018-03-14 23:55:39

Local clock offset: 4.832 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2018-03-15 05:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.30 Mbit/s

95th percentile per-packet one-way delay: 73.711 ms

Loss rate: 0.61%

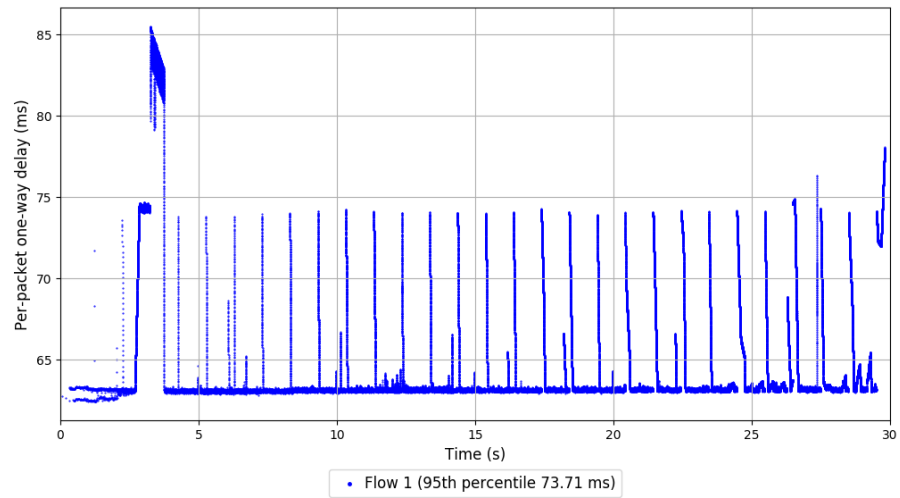
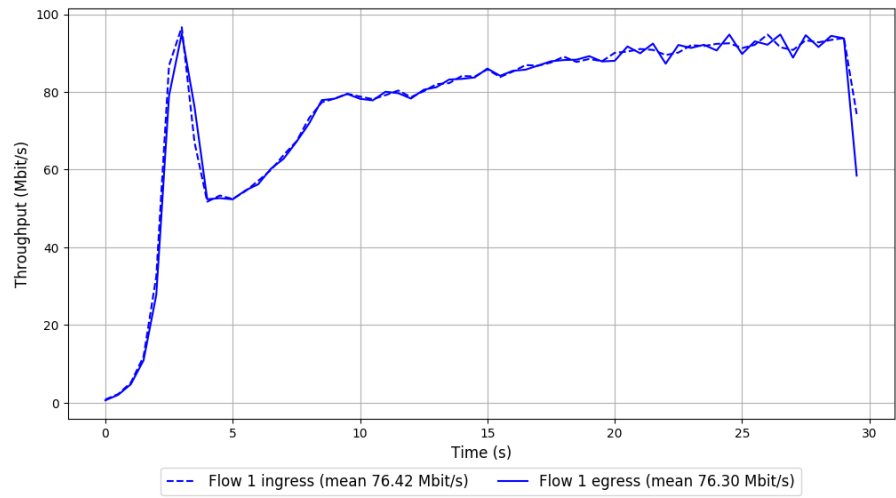
-- Flow 1:

Average throughput: 76.30 Mbit/s

95th percentile per-packet one-way delay: 73.711 ms

Loss rate: 0.61%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-03-15 00:18:25

End at: 2018-03-15 00:18:55

Local clock offset: 5.714 ms

Remote clock offset: 0.417 ms

Below is generated by plot.py at 2018-03-15 05:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.33 Mbit/s

95th percentile per-packet one-way delay: 77.768 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 81.33 Mbit/s

95th percentile per-packet one-way delay: 77.768 ms

Loss rate: 0.56%

Run 10: Report of Vivace-LTE — Data Link

