

Pantheon Report

Generated at 2018-02-13 07:00:13 (UTC).

Data path: AWS California 2 Ethernet (*local*) → Mexico Ethernet (*remote*).

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).

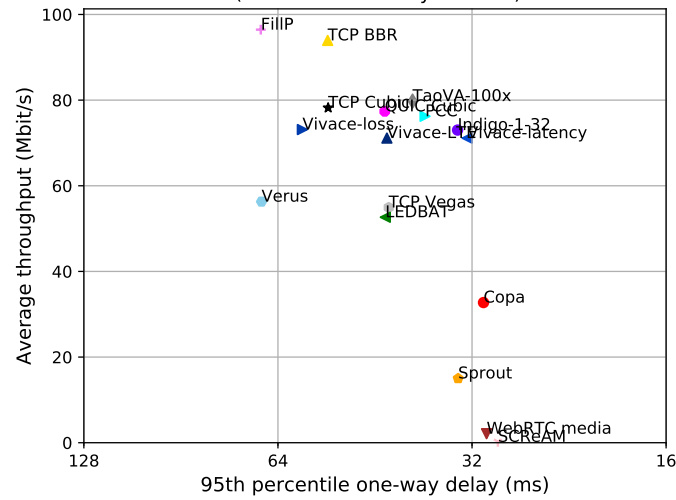
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

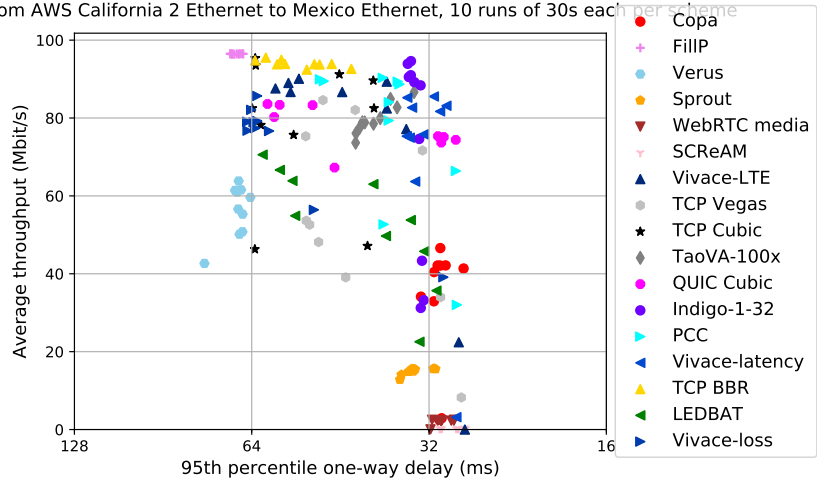
Git summary:

```
branch: master @ 2efdad57c2c56a9458b0d01ff33345e11732665
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
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-quick @ 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 AWS California 2 Ethernet to Mexico Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from AWS California 2 Ethernet to Mexico 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	93.95	53.59	1.29
TCP Cubic	10	78.21	53.50	0.28
LEDBAT	10	52.65	43.62	0.06
PCC	10	76.22	37.84	0.62
QUIC Cubic	9	77.38	43.71	0.50
SCReAM	10	0.22	29.18	0.02
WebRTC media	10	2.11	30.38	0.02
Sprout	10	15.01	33.63	0.03
TaoVA-100x	10	79.77	39.58	0.09
TCP Vegas	10	54.93	43.09	0.33
Verus	10	56.30	67.87	39.18
Copa	10	32.73	30.72	0.10
FillP	10	96.46	68.05	23.43
Indigo-1-32	10	73.01	33.69	0.15
Vivace-latency	10	71.12	32.56	0.06
Vivace-loss	10	73.13	58.65	4.05
Vivace-LTE	10	71.15	43.37	0.64

Run 1: Statistics of TCP BBR

Start at: 2018-02-13 01:55:32

End at: 2018-02-13 01:56:02

Local clock offset: 1.879 ms

Remote clock offset: -6.895 ms

Below is generated by plot.py at 2018-02-13 06:39:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.43 Mbit/s

95th percentile per-packet one-way delay: 51.600 ms

Loss rate: 1.24%

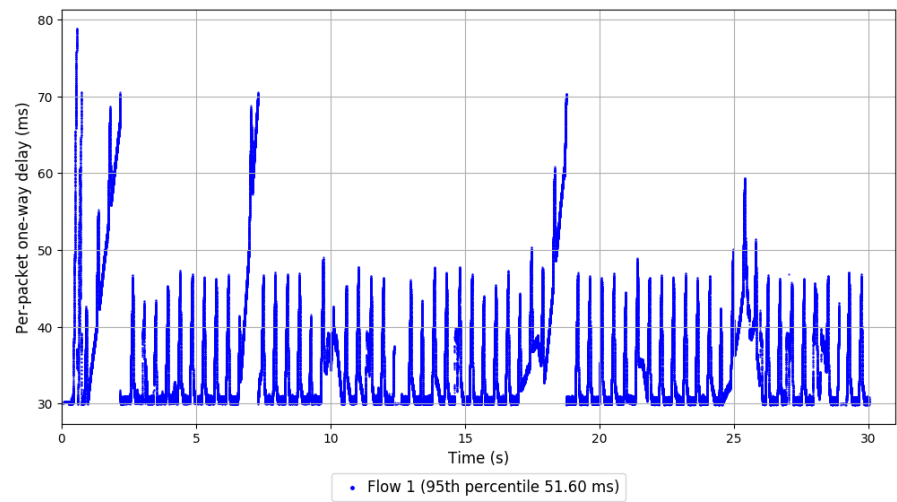
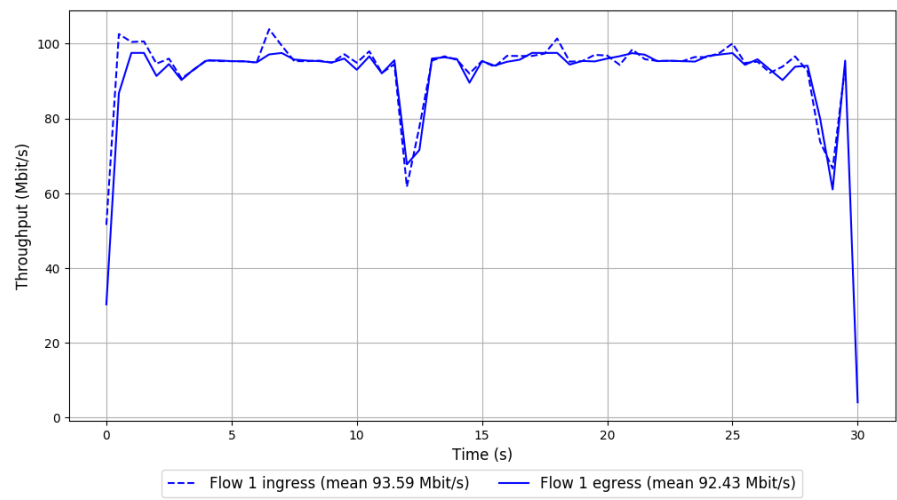
-- Flow 1:

Average throughput: 92.43 Mbit/s

95th percentile per-packet one-way delay: 51.600 ms

Loss rate: 1.24%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-13 02:21:07

End at: 2018-02-13 02:21:37

Local clock offset: 0.44 ms

Remote clock offset: -6.611 ms

Below is generated by plot.py at 2018-02-13 06:39:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.62 Mbit/s

95th percentile per-packet one-way delay: 43.361 ms

Loss rate: 0.64%

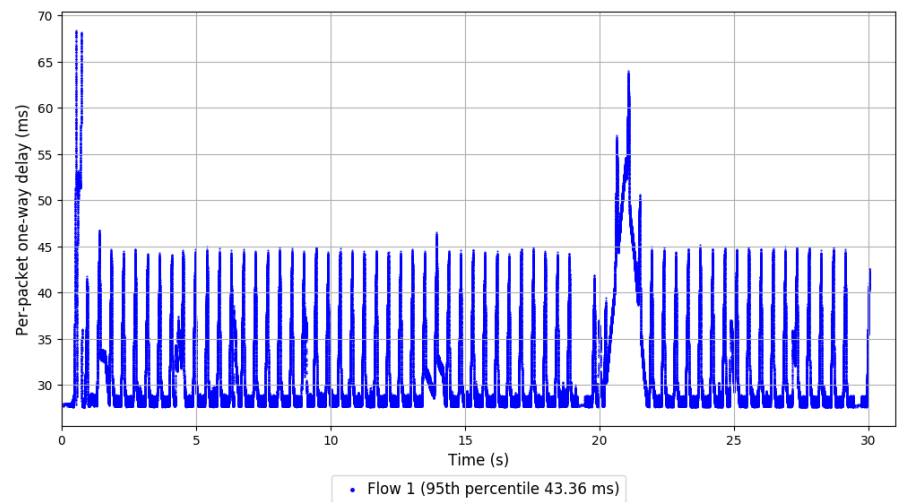
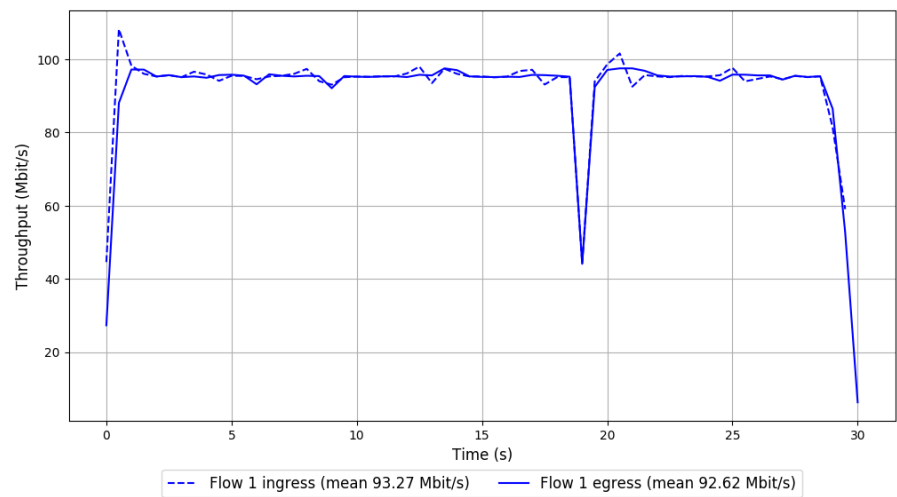
-- Flow 1:

Average throughput: 92.62 Mbit/s

95th percentile per-packet one-way delay: 43.361 ms

Loss rate: 0.64%

Run 2: Report of TCP BBR — Data Link

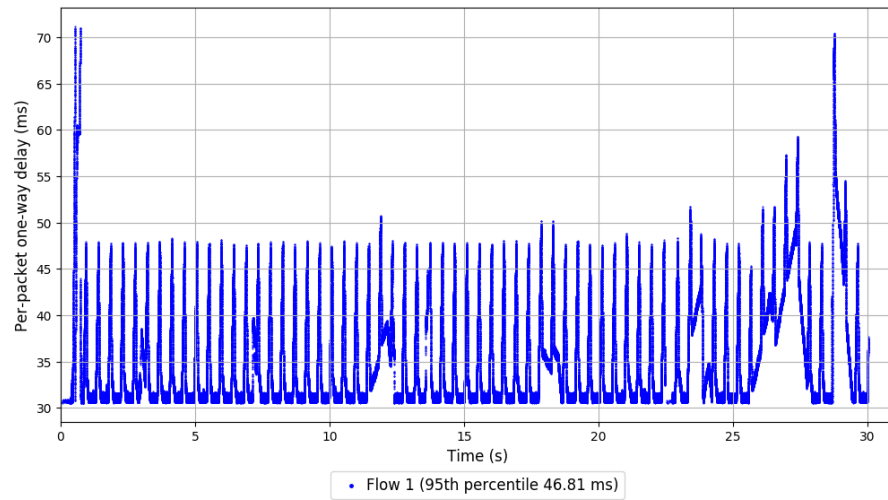
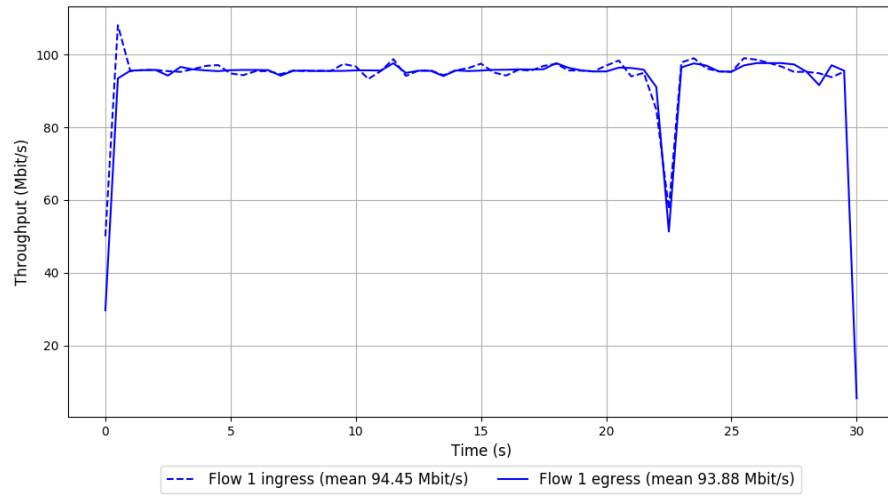


Run 3: Statistics of TCP BBR

Start at: 2018-02-13 02:46:11
End at: 2018-02-13 02:46:41
Local clock offset: 0.257 ms
Remote clock offset: -4.375 ms

Below is generated by plot.py at 2018-02-13 06:39:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.88 Mbit/s
95th percentile per-packet one-way delay: 46.814 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 93.88 Mbit/s
95th percentile per-packet one-way delay: 46.814 ms
Loss rate: 0.58%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-13 03:10:50

End at: 2018-02-13 03:11:20

Local clock offset: 0.266 ms

Remote clock offset: -2.968 ms

Below is generated by plot.py at 2018-02-13 06:39:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.83 Mbit/s

95th percentile per-packet one-way delay: 50.096 ms

Loss rate: 0.67%

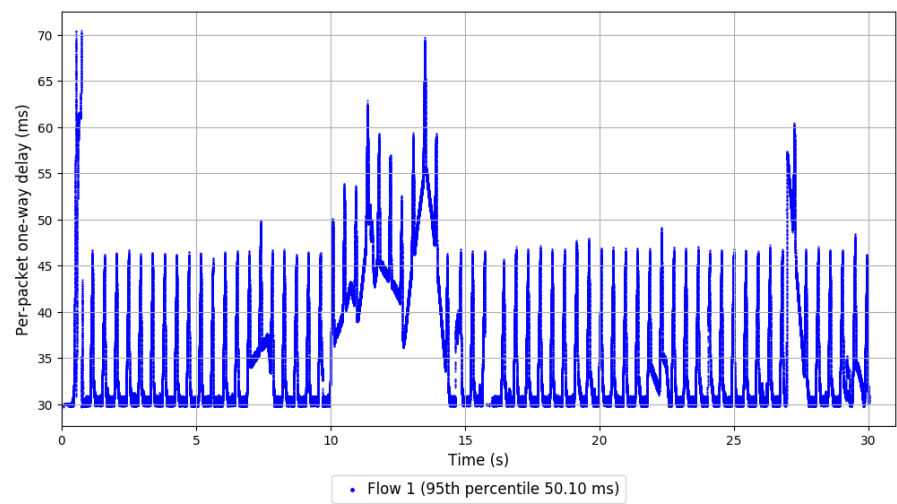
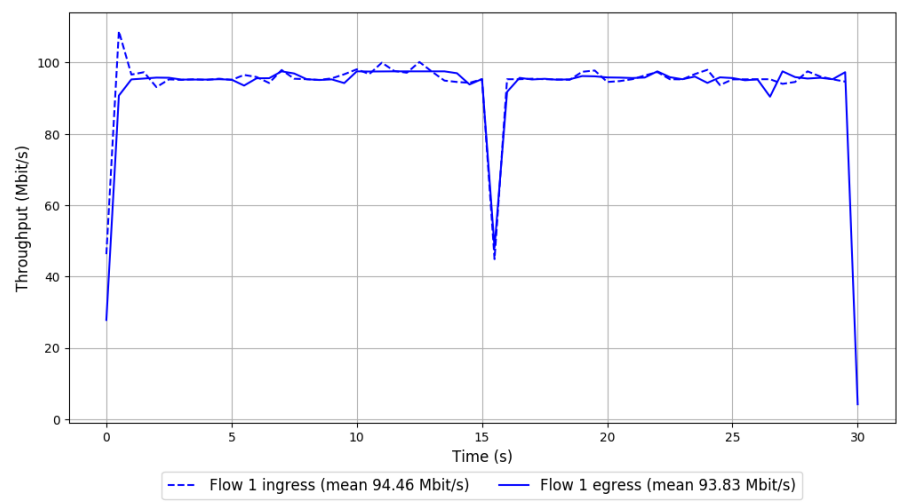
-- Flow 1:

Average throughput: 93.83 Mbit/s

95th percentile per-packet one-way delay: 50.096 ms

Loss rate: 0.67%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-13 03:36:05

End at: 2018-02-13 03:36:35

Local clock offset: 0.133 ms

Remote clock offset: -5.174 ms

Below is generated by plot.py at 2018-02-13 06:39:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.76 Mbit/s

95th percentile per-packet one-way delay: 49.086 ms

Loss rate: 1.29%

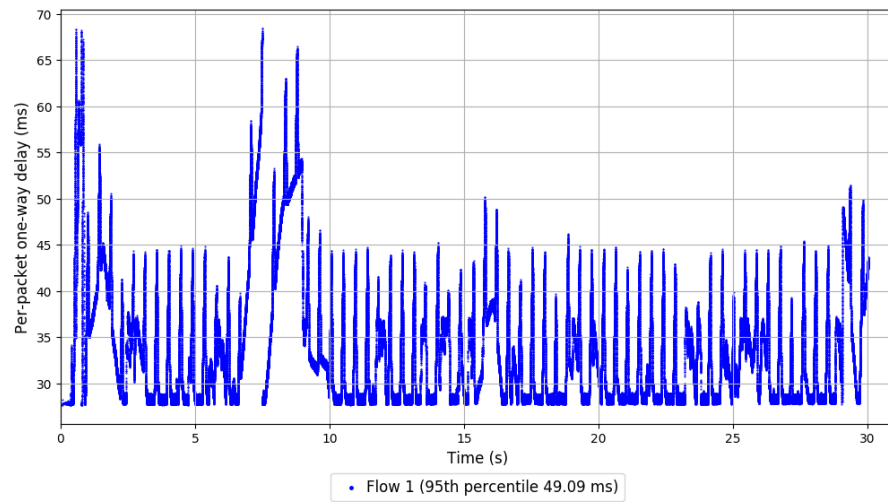
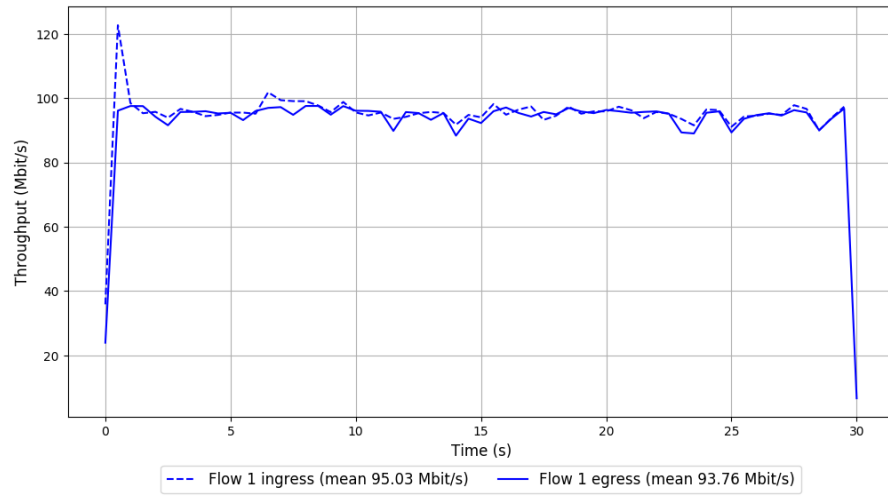
-- Flow 1:

Average throughput: 93.76 Mbit/s

95th percentile per-packet one-way delay: 49.086 ms

Loss rate: 1.29%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-13 04:03:20

End at: 2018-02-13 04:03:51

Local clock offset: 0.866 ms

Remote clock offset: -6.106 ms

Below is generated by plot.py at 2018-02-13 06:39:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.52 Mbit/s

95th percentile per-packet one-way delay: 60.578 ms

Loss rate: 2.32%

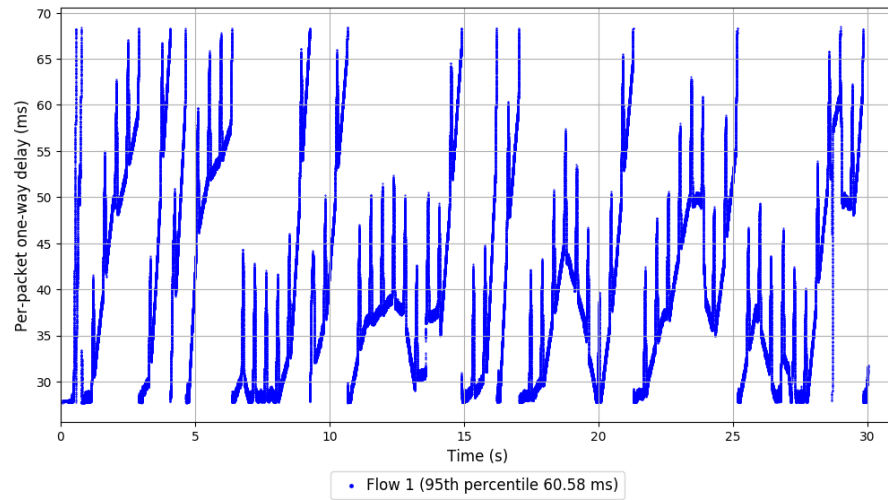
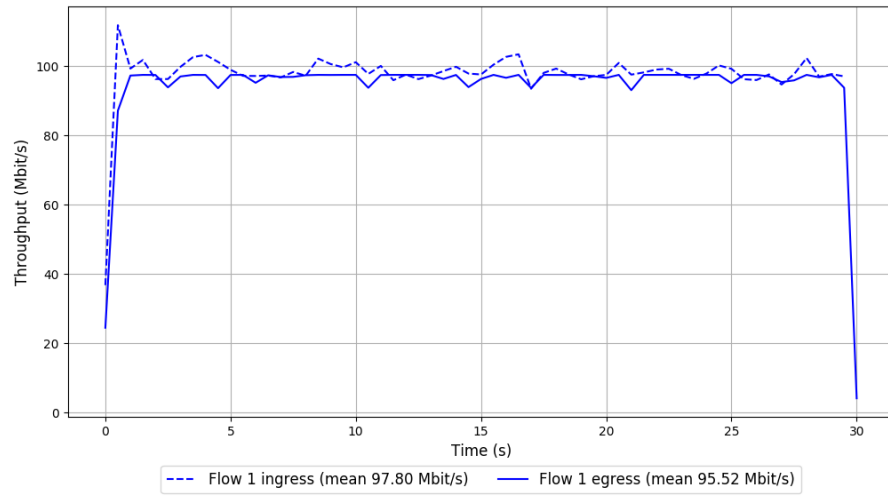
-- Flow 1:

Average throughput: 95.52 Mbit/s

95th percentile per-packet one-way delay: 60.578 ms

Loss rate: 2.32%

Run 6: Report of TCP BBR — Data Link

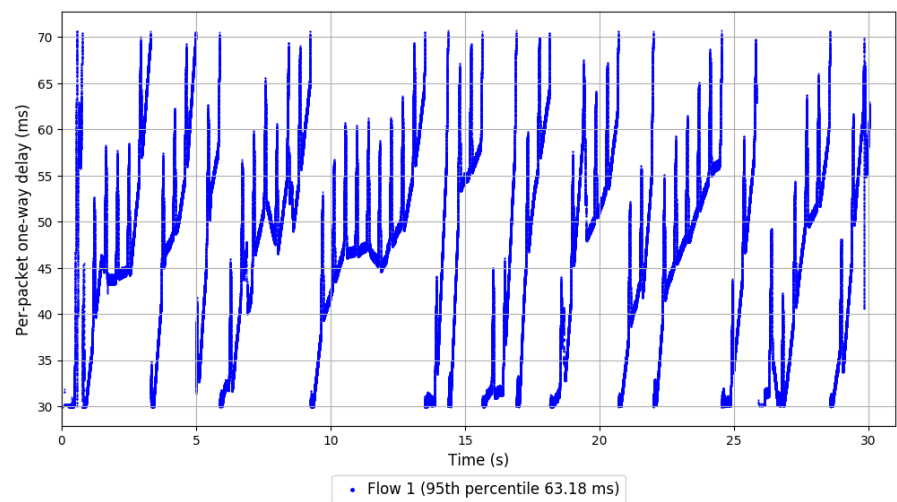
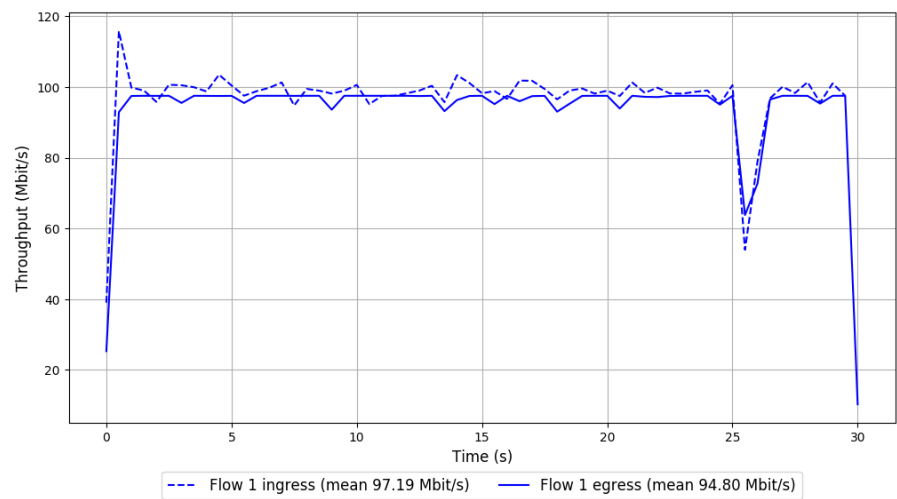


Run 7: Statistics of TCP BBR

Start at: 2018-02-13 04:32:28
End at: 2018-02-13 04:32:58
Local clock offset: 0.207 ms
Remote clock offset: -6.758 ms

Below is generated by plot.py at 2018-02-13 06:39:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.80 Mbit/s
95th percentile per-packet one-way delay: 63.178 ms
Loss rate: 2.35%
-- Flow 1:
Average throughput: 94.80 Mbit/s
95th percentile per-packet one-way delay: 63.178 ms
Loss rate: 2.35%

Run 7: Report of TCP BBR — Data Link

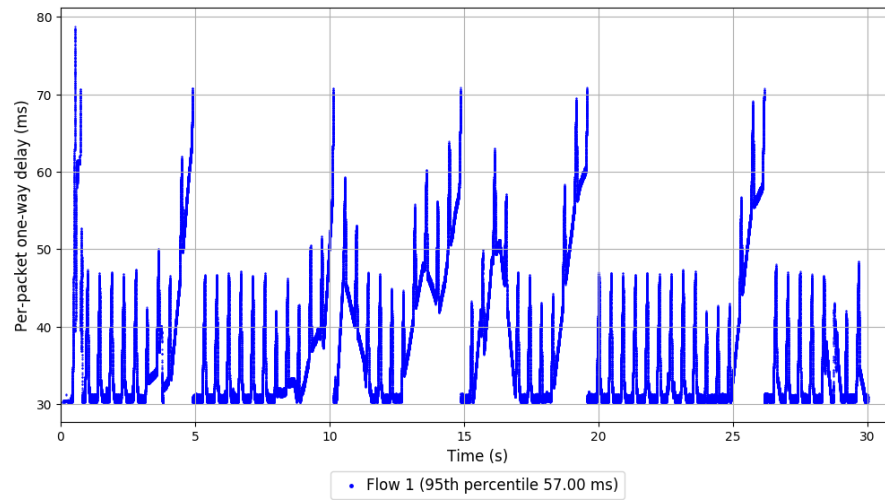
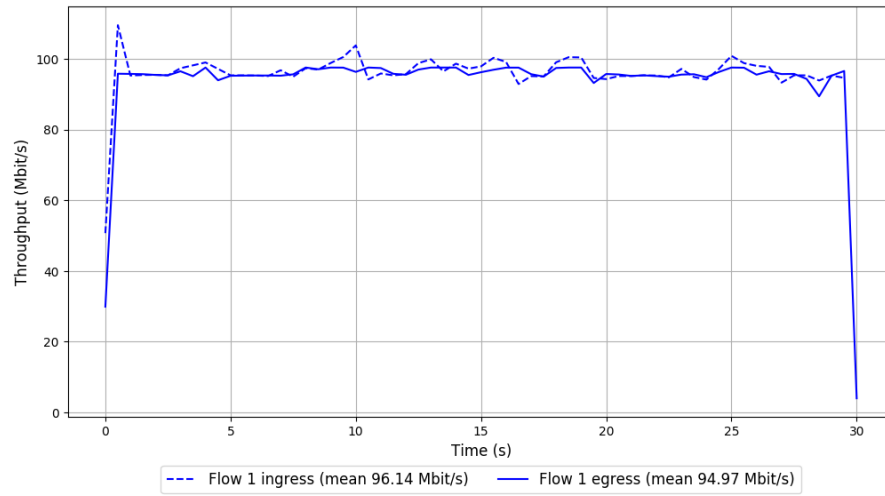


Run 8: Statistics of TCP BBR

Start at: 2018-02-13 04:57:51
End at: 2018-02-13 04:58:21
Local clock offset: -1.165 ms
Remote clock offset: -6.189 ms

Below is generated by plot.py at 2018-02-13 06:39:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.97 Mbit/s
95th percentile per-packet one-way delay: 57.000 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 94.97 Mbit/s
95th percentile per-packet one-way delay: 57.000 ms
Loss rate: 1.22%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-13 05:28:27

End at: 2018-02-13 05:28:57

Local clock offset: -1.54 ms

Remote clock offset: -7.514 ms

Below is generated by plot.py at 2018-02-13 06:40:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.79 Mbit/s

95th percentile per-packet one-way delay: 57.950 ms

Loss rate: 1.23%

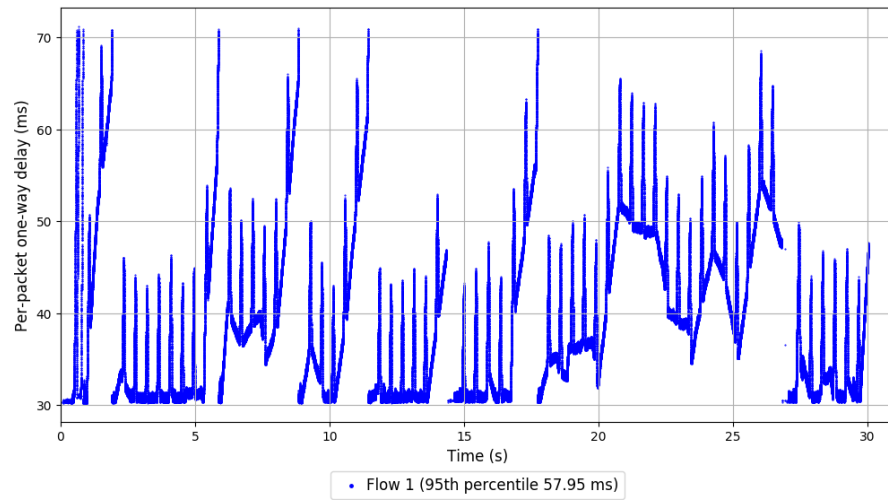
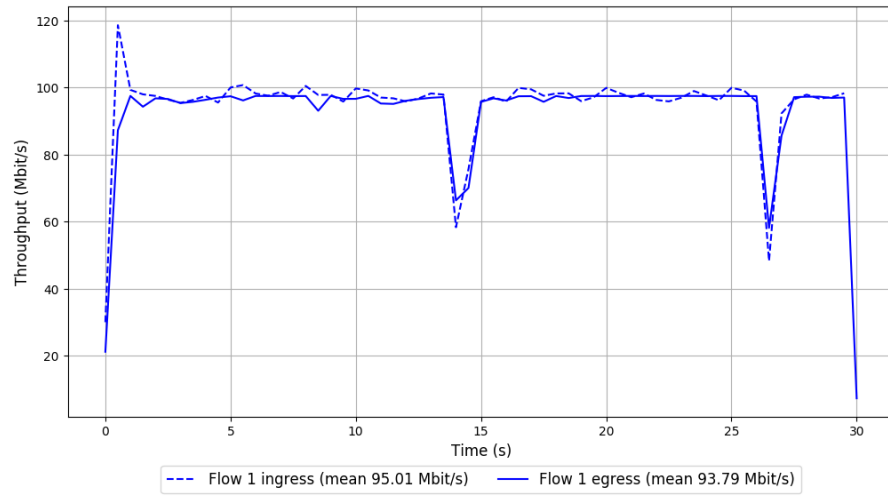
-- Flow 1:

Average throughput: 93.79 Mbit/s

95th percentile per-packet one-way delay: 57.950 ms

Loss rate: 1.23%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-13 05:55:02

End at: 2018-02-13 05:55:32

Local clock offset: -1.395 ms

Remote clock offset: -6.16 ms

Below is generated by plot.py at 2018-02-13 06:40:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.88 Mbit/s

95th percentile per-packet one-way delay: 56.202 ms

Loss rate: 1.33%

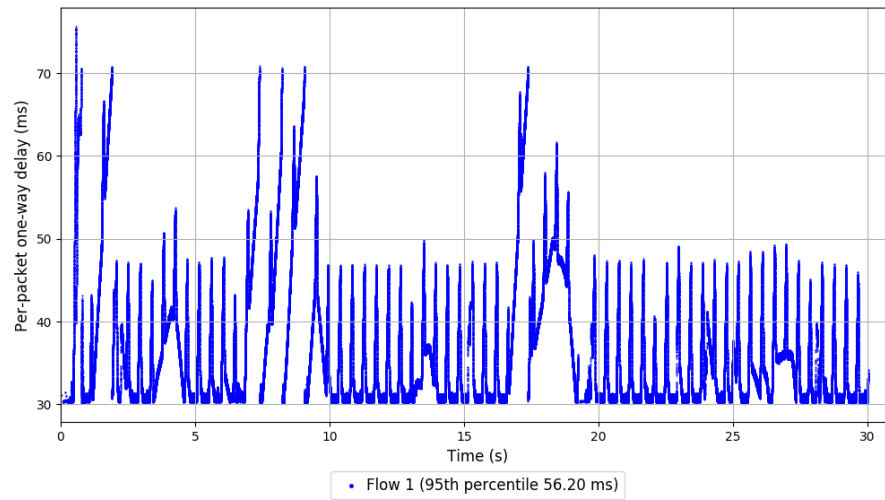
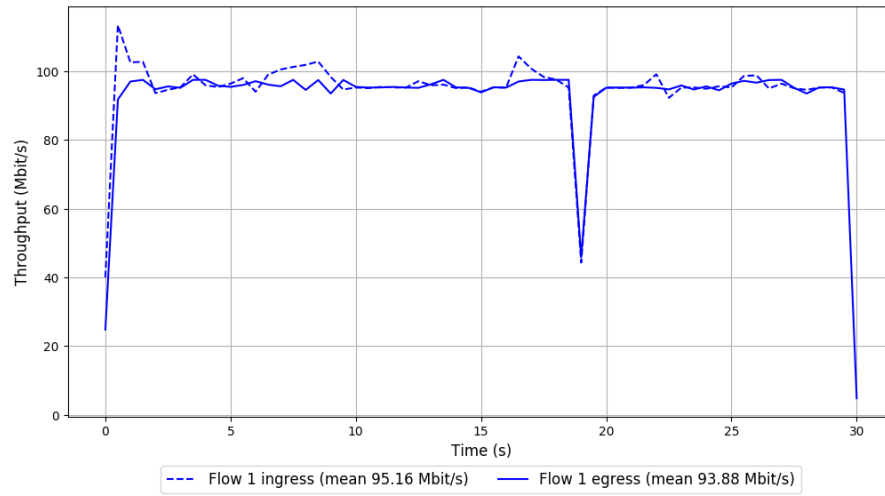
-- Flow 1:

Average throughput: 93.88 Mbit/s

95th percentile per-packet one-way delay: 56.202 ms

Loss rate: 1.33%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-13 01:49:57

End at: 2018-02-13 01:50:27

Local clock offset: 2.002 ms

Remote clock offset: -9.29 ms

Below is generated by plot.py at 2018-02-13 06:40:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.31 Mbit/s

95th percentile per-packet one-way delay: 63.228 ms

Loss rate: 0.45%

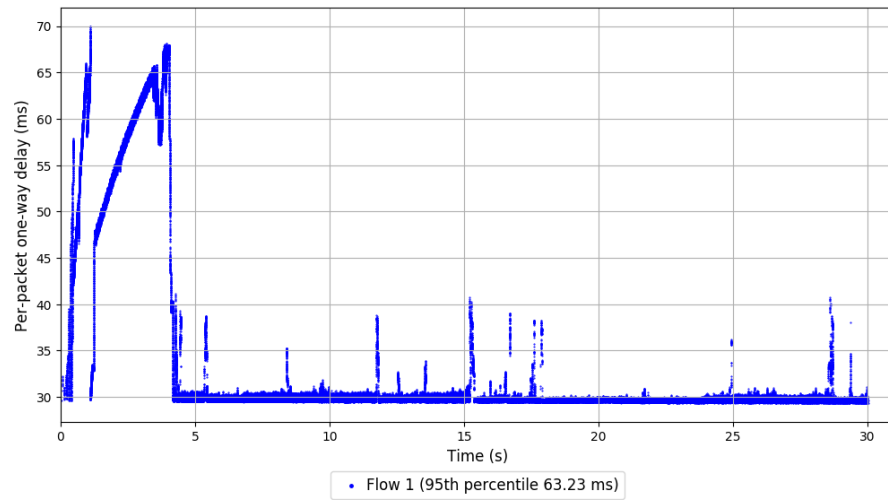
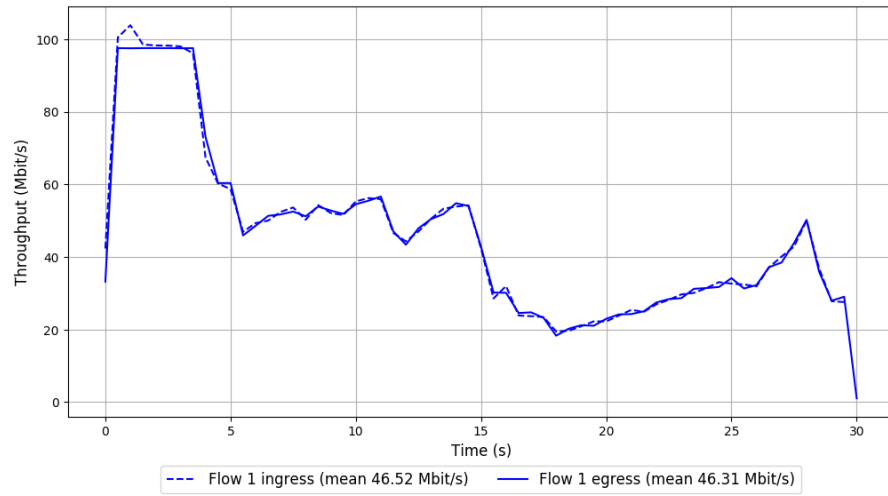
-- Flow 1:

Average throughput: 46.31 Mbit/s

95th percentile per-packet one-way delay: 63.228 ms

Loss rate: 0.45%

Run 1: Report of TCP Cubic — Data Link

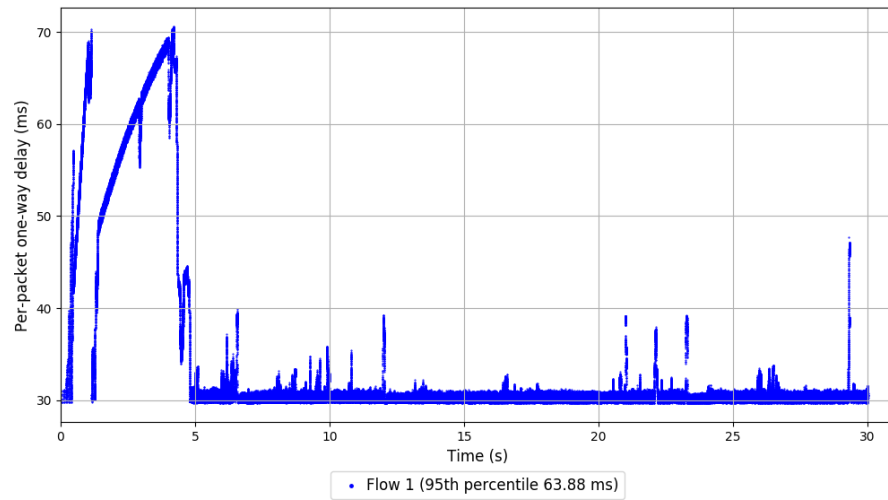
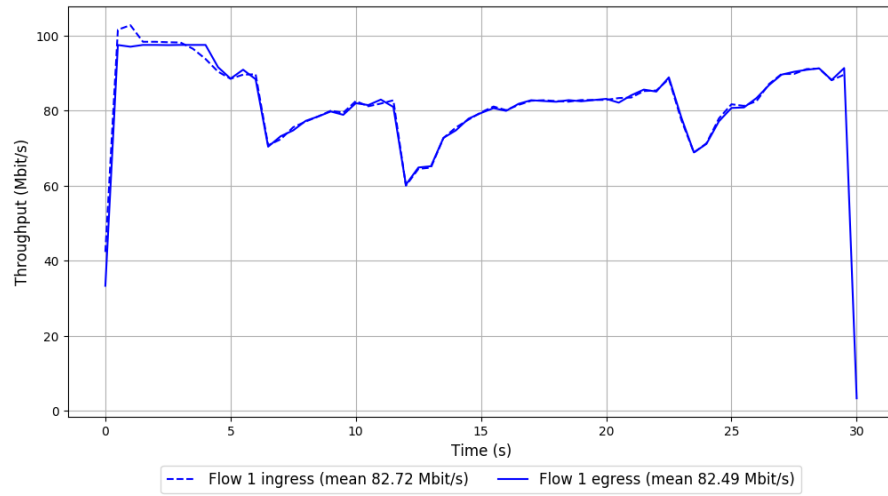


Run 2: Statistics of TCP Cubic

Start at: 2018-02-13 02:15:41
End at: 2018-02-13 02:16:11
Local clock offset: 0.537 ms
Remote clock offset: -4.905 ms

Below is generated by plot.py at 2018-02-13 06:40:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.49 Mbit/s
95th percentile per-packet one-way delay: 63.876 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 82.49 Mbit/s
95th percentile per-packet one-way delay: 63.876 ms
Loss rate: 0.27%

Run 2: Report of TCP Cubic — Data Link

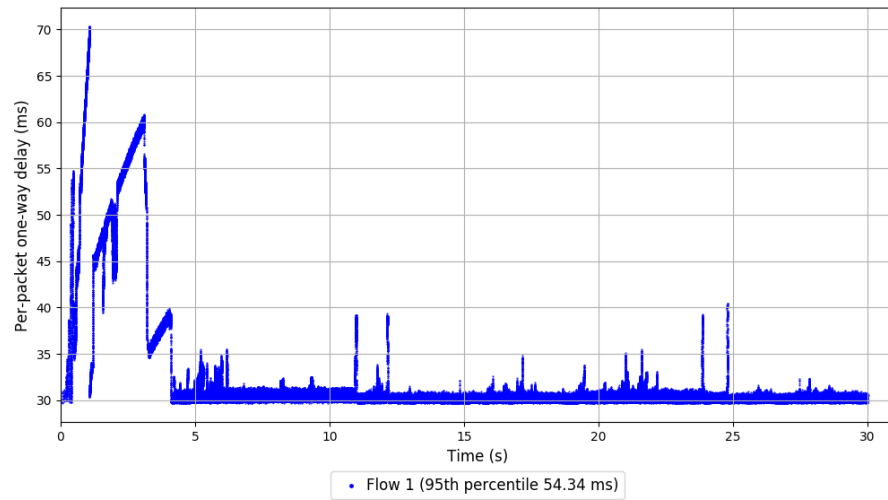
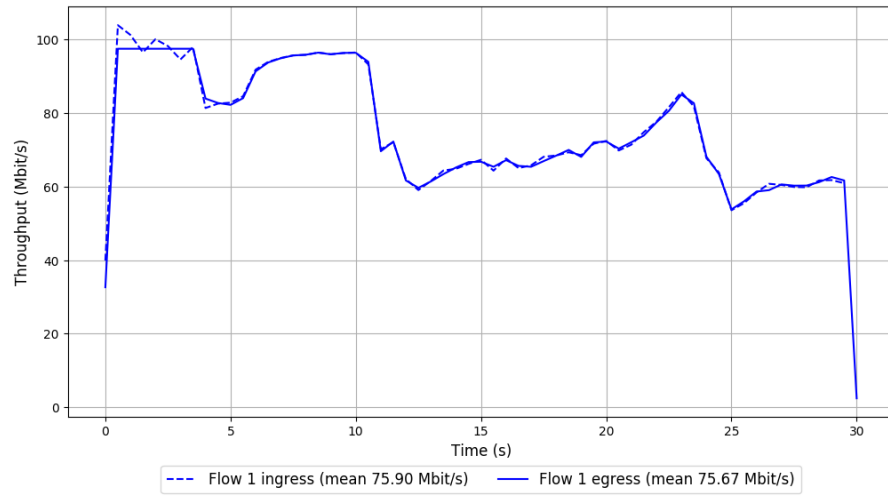


Run 3: Statistics of TCP Cubic

Start at: 2018-02-13 02:40:51
End at: 2018-02-13 02:41:21
Local clock offset: 0.363 ms
Remote clock offset: -4.454 ms

Below is generated by plot.py at 2018-02-13 06:40:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.67 Mbit/s
95th percentile per-packet one-way delay: 54.338 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 75.67 Mbit/s
95th percentile per-packet one-way delay: 54.338 ms
Loss rate: 0.30%

Run 3: Report of TCP Cubic — Data Link

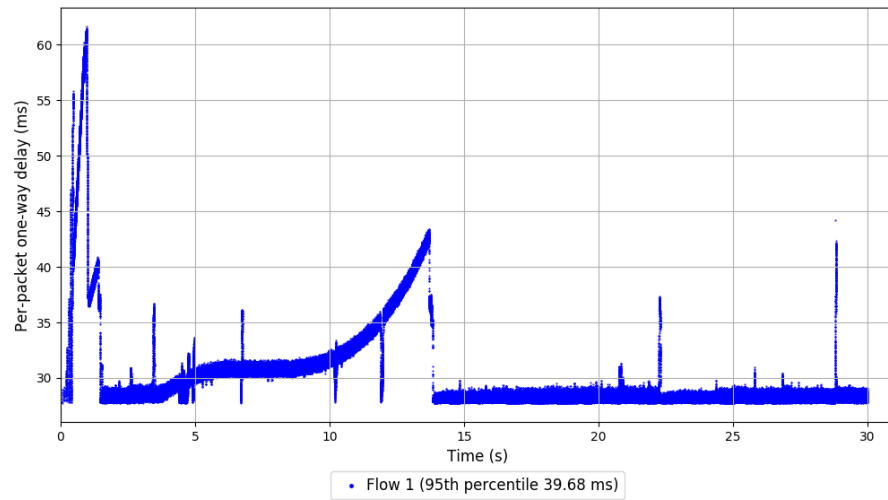
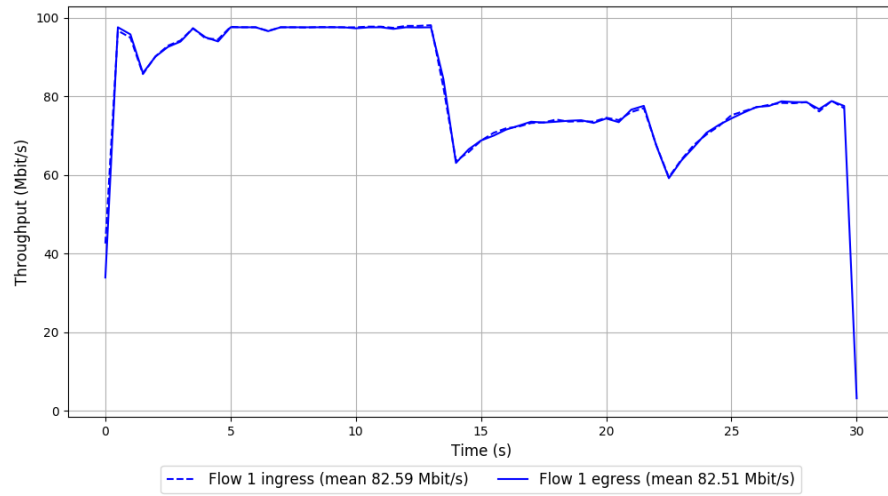


Run 4: Statistics of TCP Cubic

Start at: 2018-02-13 03:05:25
End at: 2018-02-13 03:05:55
Local clock offset: 0.231 ms
Remote clock offset: -5.298 ms

Below is generated by plot.py at 2018-02-13 06:40:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.51 Mbit/s
95th percentile per-packet one-way delay: 39.680 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 82.51 Mbit/s
95th percentile per-packet one-way delay: 39.680 ms
Loss rate: 0.10%

Run 4: Report of TCP Cubic — Data Link

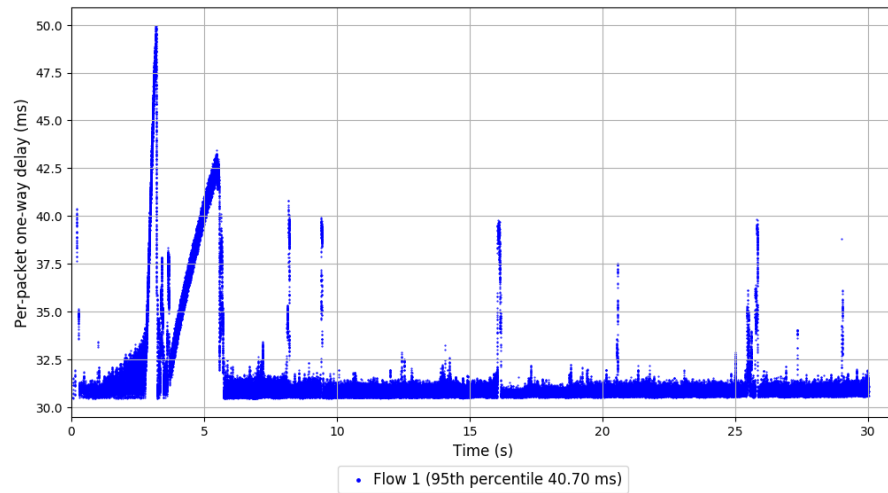
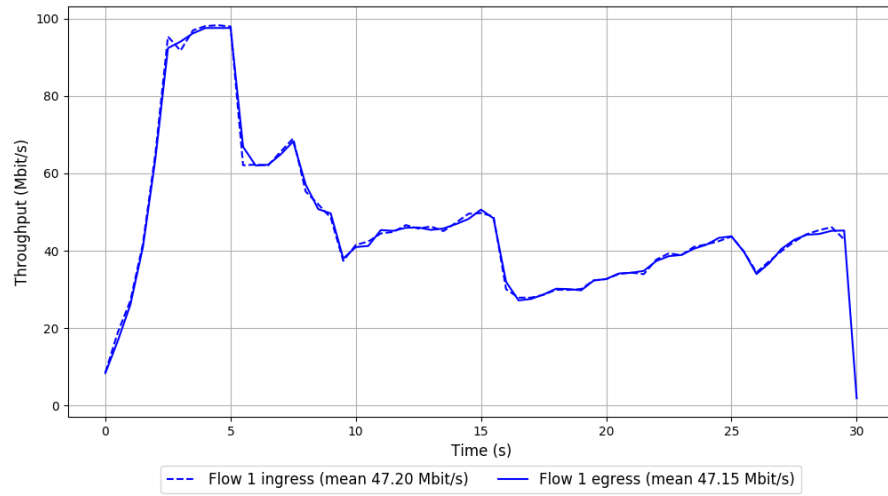


Run 5: Statistics of TCP Cubic

Start at: 2018-02-13 03:30:27
End at: 2018-02-13 03:30:57
Local clock offset: 0.155 ms
Remote clock offset: -2.206 ms

Below is generated by plot.py at 2018-02-13 06:40:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 47.15 Mbit/s
95th percentile per-packet one-way delay: 40.700 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 47.15 Mbit/s
95th percentile per-packet one-way delay: 40.700 ms
Loss rate: 0.09%

Run 5: Report of TCP Cubic — Data Link

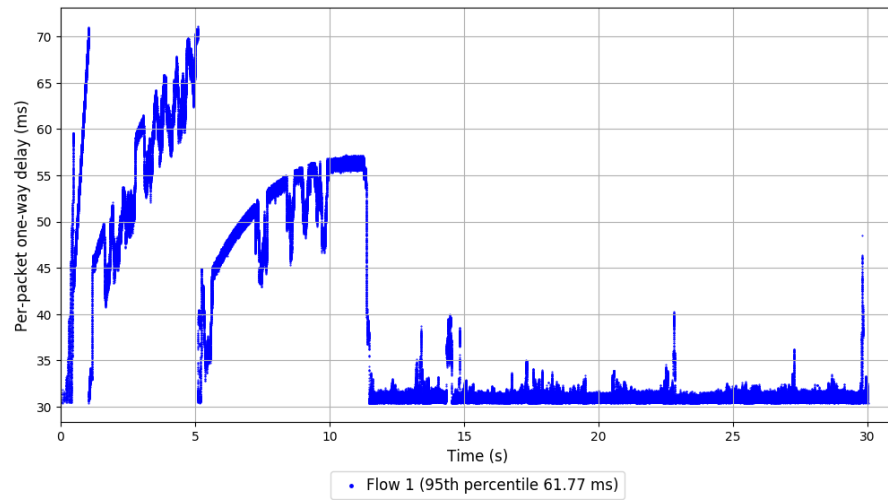
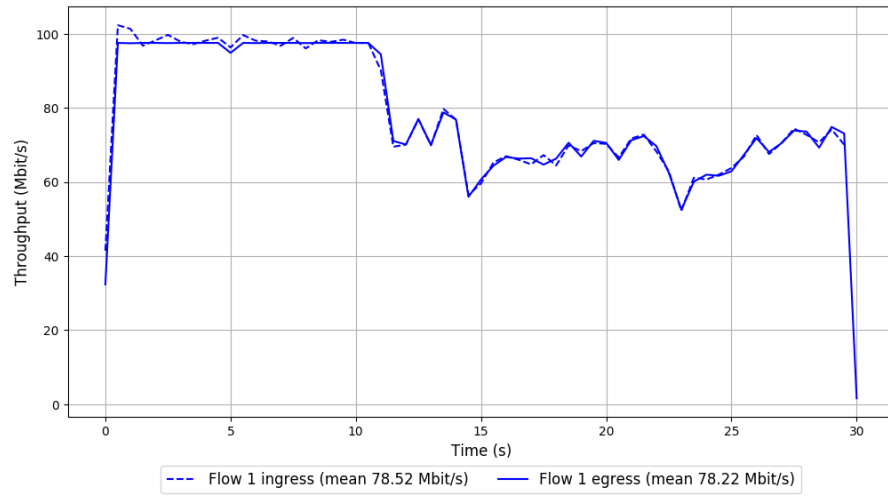


Run 6: Statistics of TCP Cubic

Start at: 2018-02-13 03:57:21
End at: 2018-02-13 03:57:51
Local clock offset: 0.828 ms
Remote clock offset: -4.047 ms

Below is generated by plot.py at 2018-02-13 06:40:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.22 Mbit/s
95th percentile per-packet one-way delay: 61.773 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 78.22 Mbit/s
95th percentile per-packet one-way delay: 61.773 ms
Loss rate: 0.39%

Run 6: Report of TCP Cubic — Data Link

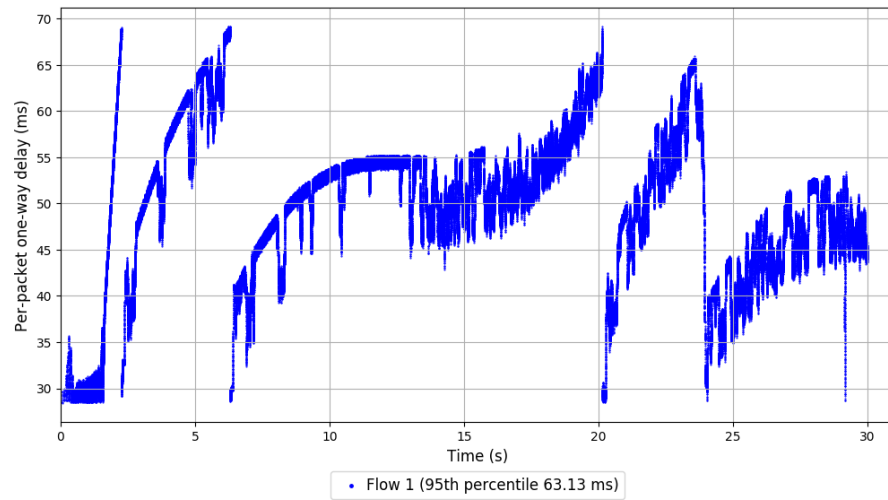
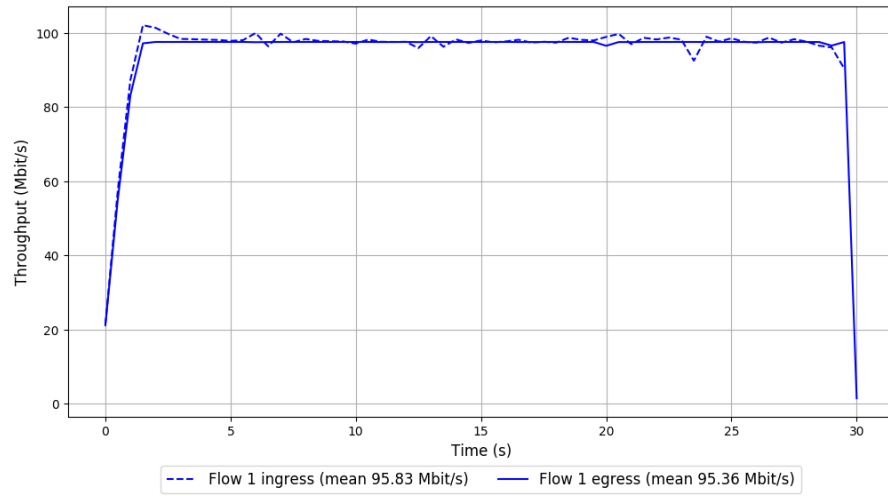


Run 7: Statistics of TCP Cubic

Start at: 2018-02-13 04:26:25
End at: 2018-02-13 04:26:55
Local clock offset: 0.363 ms
Remote clock offset: -8.272 ms

Below is generated by plot.py at 2018-02-13 06:41:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.36 Mbit/s
95th percentile per-packet one-way delay: 63.126 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 95.36 Mbit/s
95th percentile per-packet one-way delay: 63.126 ms
Loss rate: 0.44%

Run 7: Report of TCP Cubic — Data Link

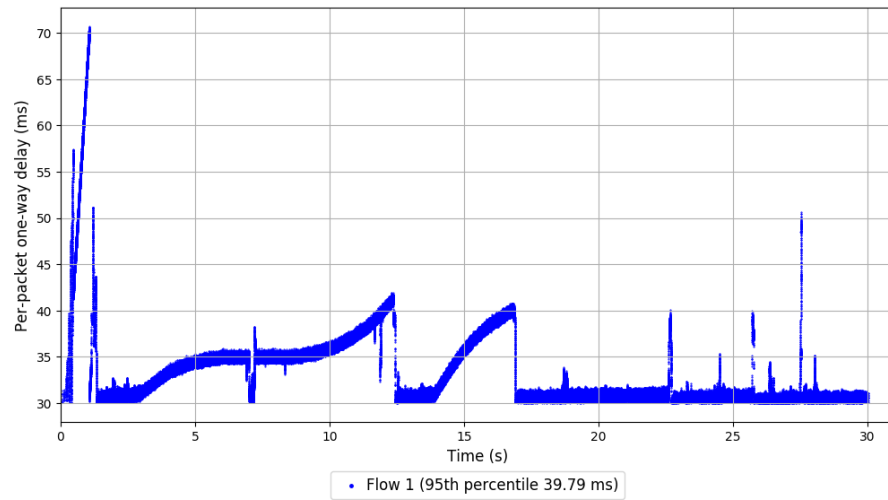
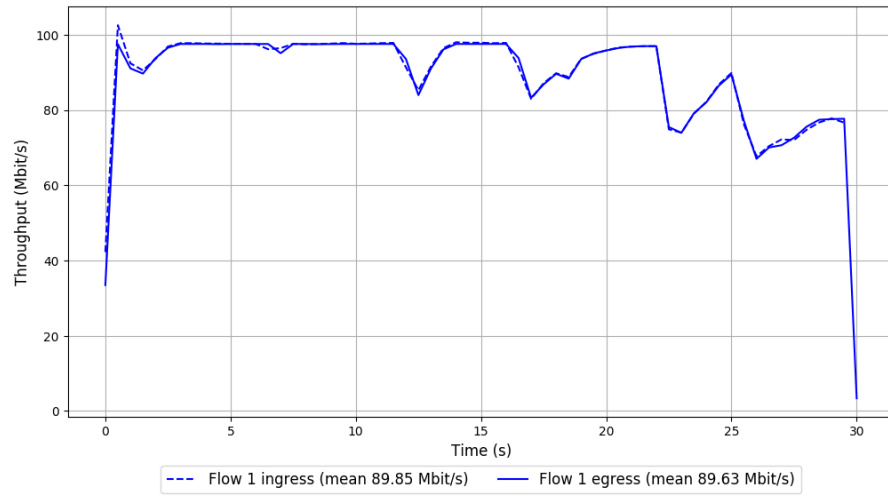


Run 8: Statistics of TCP Cubic

Start at: 2018-02-13 04:52:15
End at: 2018-02-13 04:52:45
Local clock offset: -0.688 ms
Remote clock offset: -6.305 ms

Below is generated by plot.py at 2018-02-13 06:41:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.63 Mbit/s
95th percentile per-packet one-way delay: 39.787 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 89.63 Mbit/s
95th percentile per-packet one-way delay: 39.787 ms
Loss rate: 0.24%

Run 8: Report of TCP Cubic — Data Link

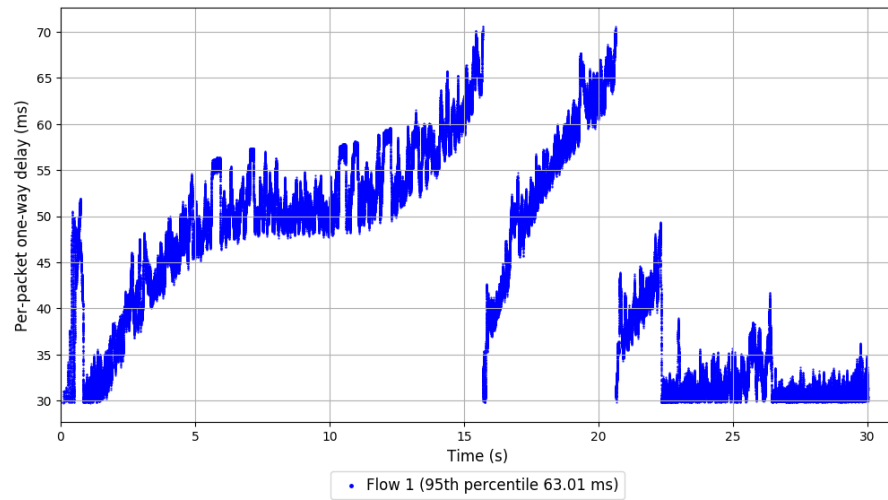
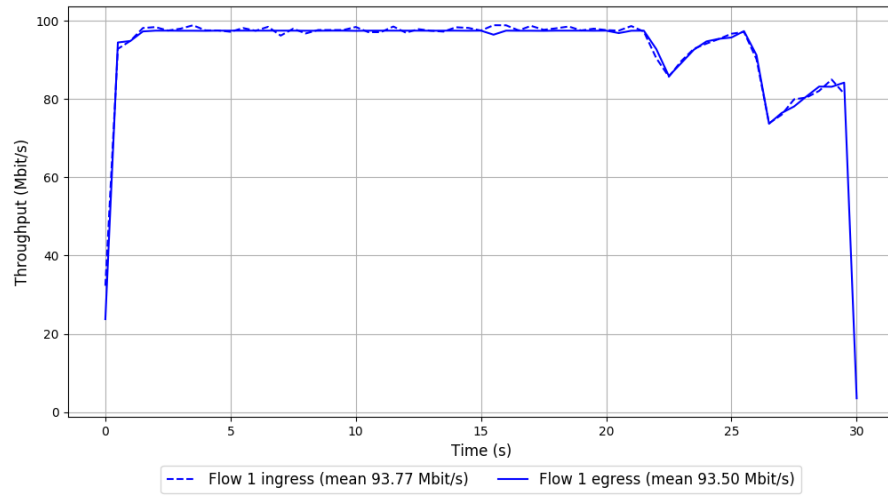


Run 9: Statistics of TCP Cubic

Start at: 2018-02-13 05:21:56
End at: 2018-02-13 05:22:26
Local clock offset: -1.914 ms
Remote clock offset: -7.706 ms

Below is generated by plot.py at 2018-02-13 06:42:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.50 Mbit/s
95th percentile per-packet one-way delay: 63.008 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 93.50 Mbit/s
95th percentile per-packet one-way delay: 63.008 ms
Loss rate: 0.29%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-13 05:49:30

End at: 2018-02-13 05:50:00

Local clock offset: -1.452 ms

Remote clock offset: -7.522 ms

Below is generated by plot.py at 2018-02-13 06:42:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.22 Mbit/s

95th percentile per-packet one-way delay: 45.436 ms

Loss rate: 0.22%

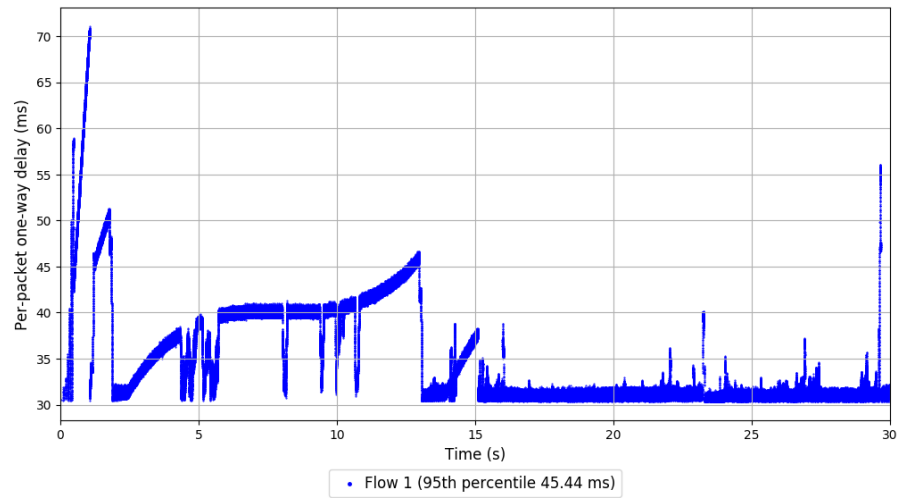
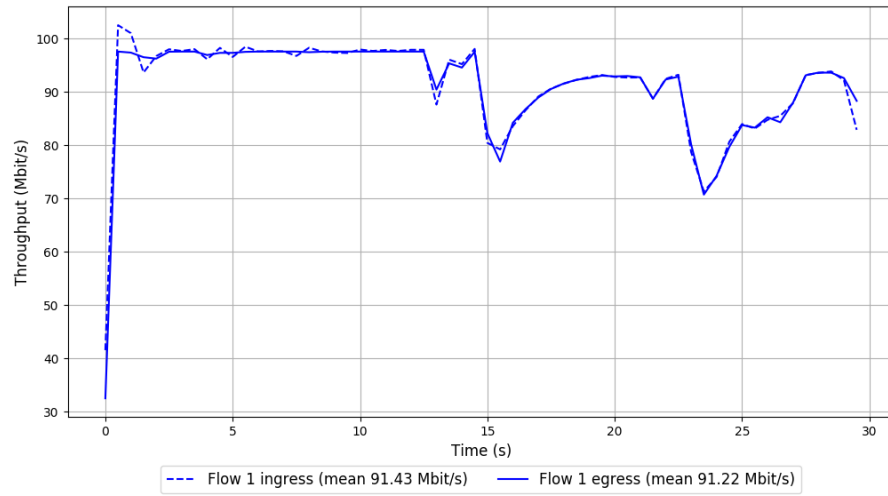
-- Flow 1:

Average throughput: 91.22 Mbit/s

95th percentile per-packet one-way delay: 45.436 ms

Loss rate: 0.22%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of LEDBAT

Start at: 2018-02-13 02:08:35

End at: 2018-02-13 02:09:05

Local clock offset: 0.67 ms

Remote clock offset: -5.04 ms

Below is generated by plot.py at 2018-02-13 06:42:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.76 Mbit/s

95th percentile per-packet one-way delay: 32.618 ms

Loss rate: 0.04%

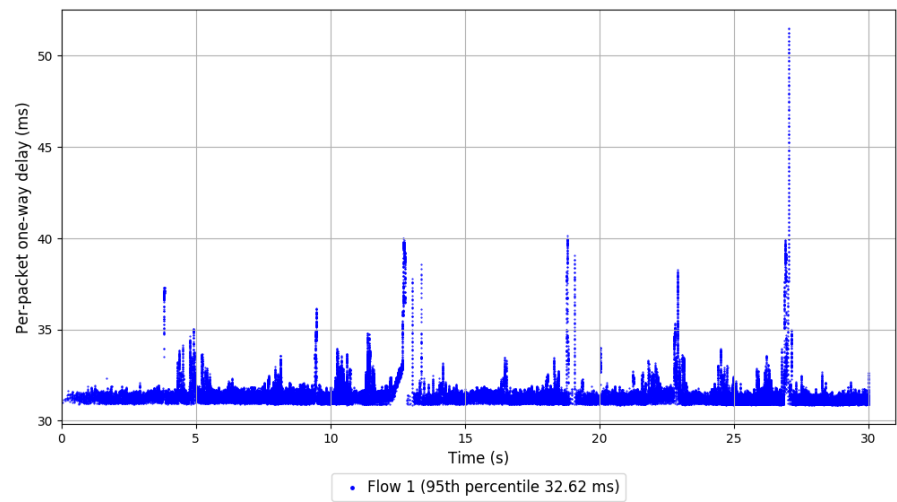
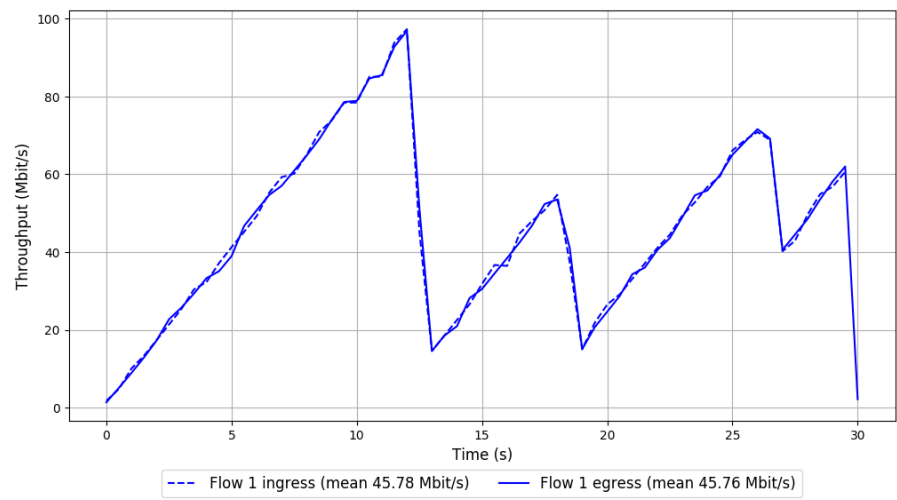
-- Flow 1:

Average throughput: 45.76 Mbit/s

95th percentile per-packet one-way delay: 32.618 ms

Loss rate: 0.04%

Run 1: Report of LEDBAT — Data Link

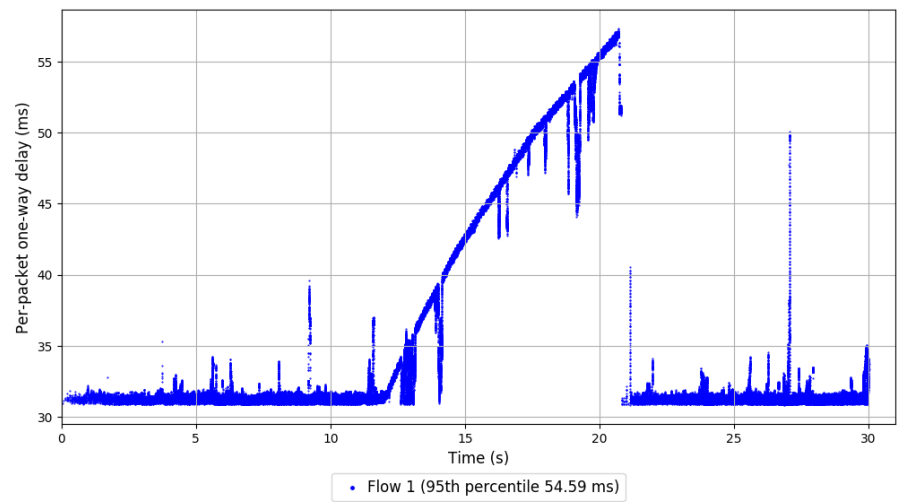
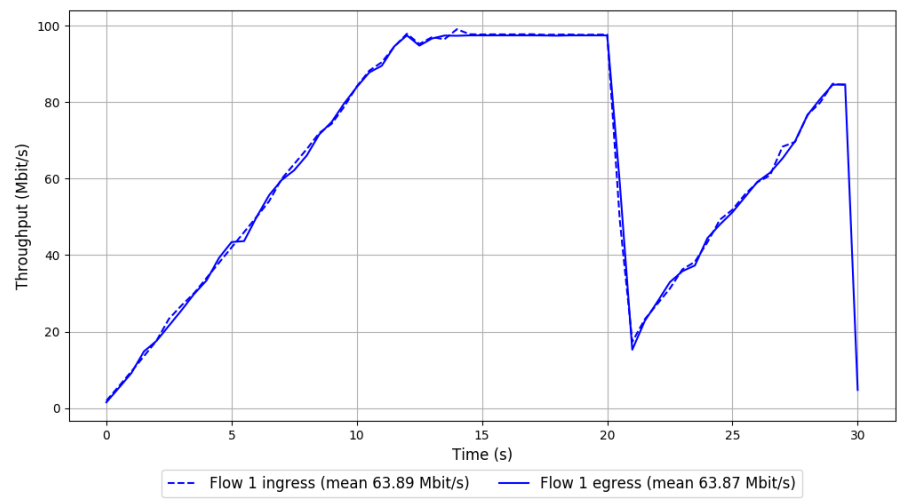


Run 2: Statistics of LEDBAT

Start at: 2018-02-13 02:33:55
End at: 2018-02-13 02:34:25
Local clock offset: 0.283 ms
Remote clock offset: -4.158 ms

Below is generated by plot.py at 2018-02-13 06:42:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 63.87 Mbit/s
95th percentile per-packet one-way delay: 54.587 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 63.87 Mbit/s
95th percentile per-packet one-way delay: 54.587 ms
Loss rate: 0.03%

Run 2: Report of LEDBAT — Data Link

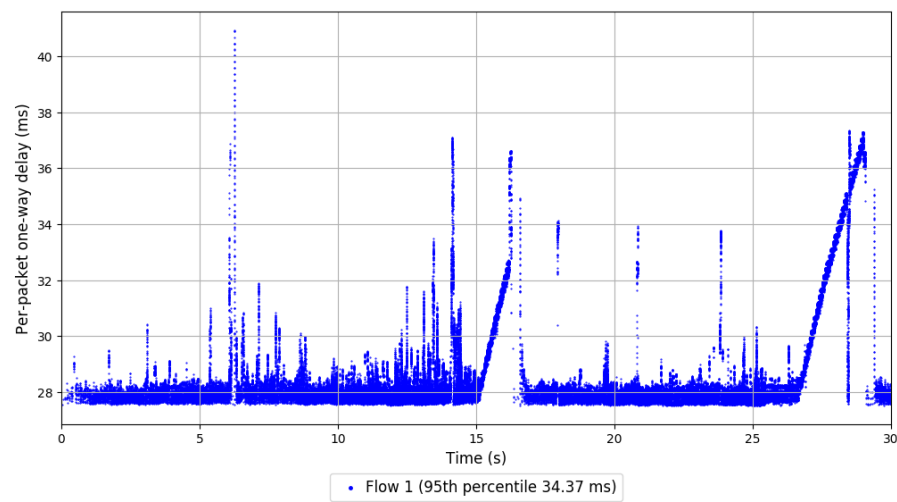
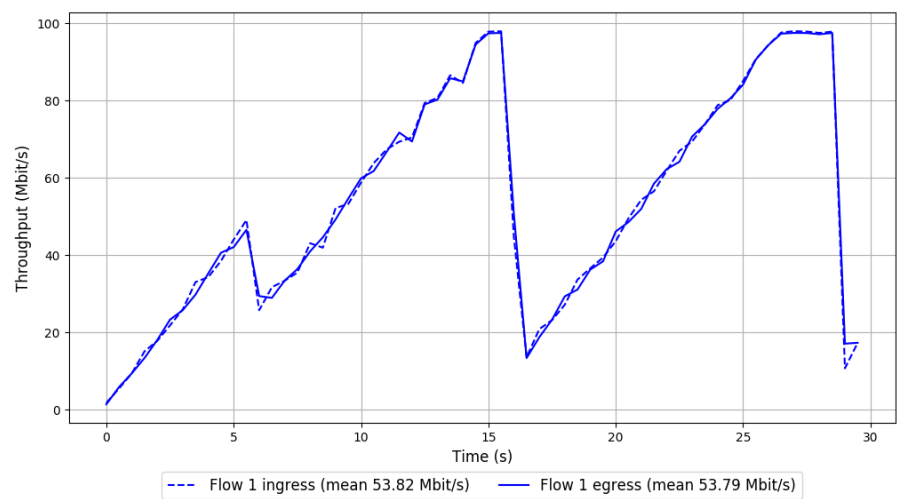


Run 3: Statistics of LEDBAT

Start at: 2018-02-13 02:58:38
End at: 2018-02-13 02:59:08
Local clock offset: 0.253 ms
Remote clock offset: -6.033 ms

Below is generated by plot.py at 2018-02-13 06:42:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 53.79 Mbit/s
95th percentile per-packet one-way delay: 34.371 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 53.79 Mbit/s
95th percentile per-packet one-way delay: 34.371 ms
Loss rate: 0.05%

Run 3: Report of LEDBAT — Data Link

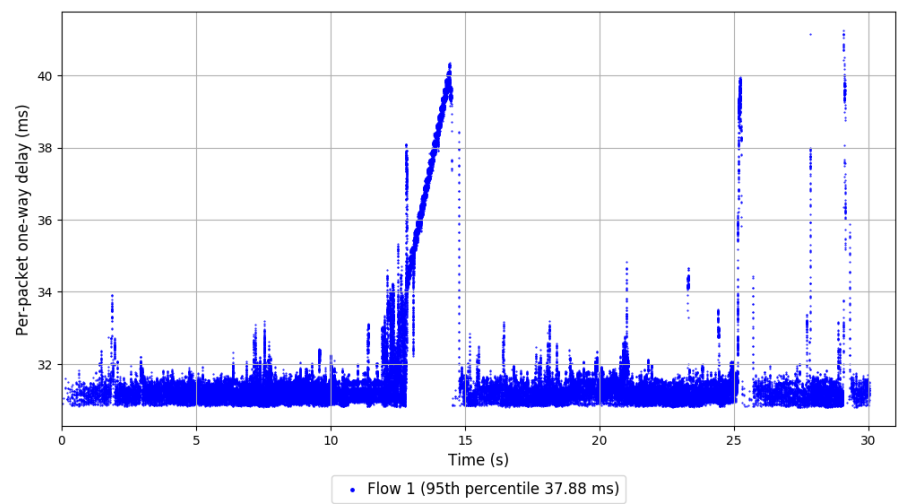
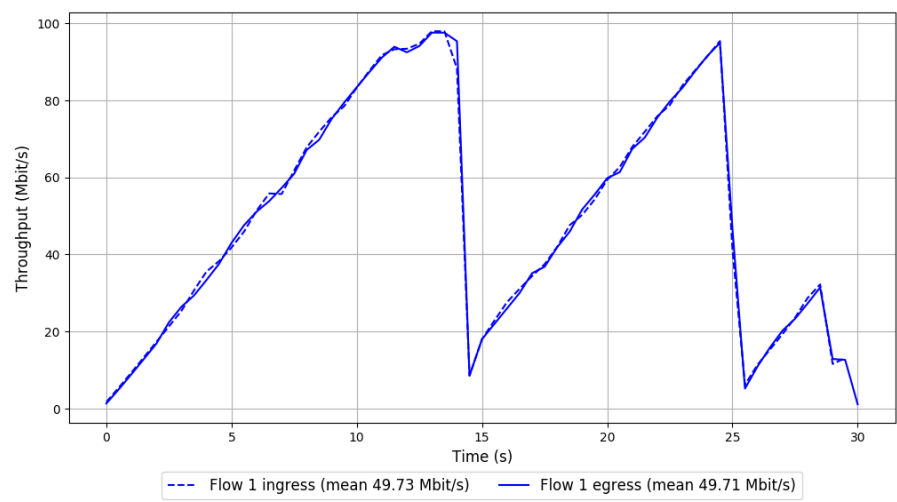


Run 4: Statistics of LEDBAT

Start at: 2018-02-13 03:23:24
End at: 2018-02-13 03:23:54
Local clock offset: 0.327 ms
Remote clock offset: -1.992 ms

Below is generated by plot.py at 2018-02-13 06:42:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 49.71 Mbit/s
95th percentile per-packet one-way delay: 37.876 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 49.71 Mbit/s
95th percentile per-packet one-way delay: 37.876 ms
Loss rate: 0.06%

Run 4: Report of LEDBAT — Data Link

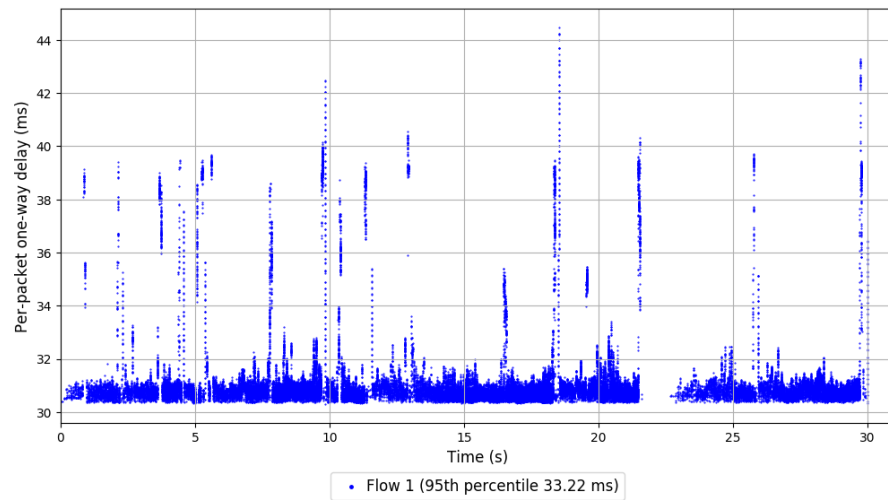
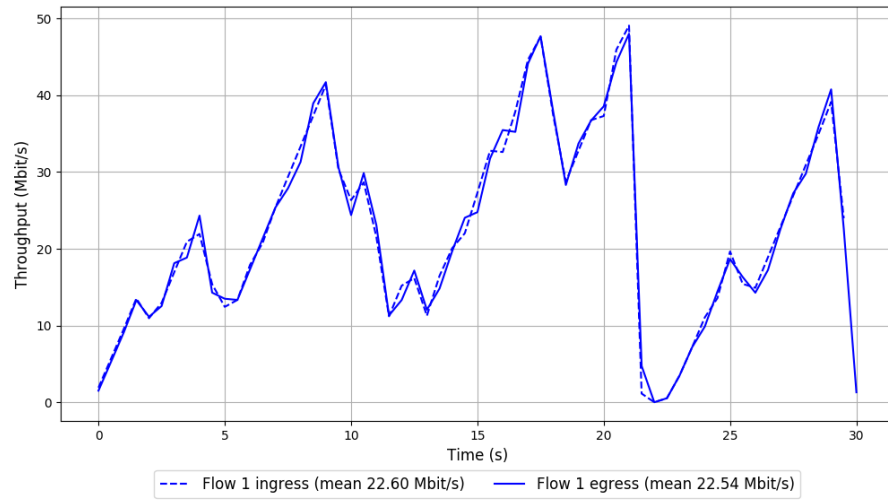


Run 5: Statistics of LEDBAT

Start at: 2018-02-13 03:50:08
End at: 2018-02-13 03:50:38
Local clock offset: 0.771 ms
Remote clock offset: -3.978 ms

Below is generated by plot.py at 2018-02-13 06:42:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 22.54 Mbit/s
95th percentile per-packet one-way delay: 33.222 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 22.54 Mbit/s
95th percentile per-packet one-way delay: 33.222 ms
Loss rate: 0.21%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-13 04:18:49

End at: 2018-02-13 04:19:19

Local clock offset: 0.497 ms

Remote clock offset: -5.18 ms

Below is generated by plot.py at 2018-02-13 06:42:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.01 Mbit/s

95th percentile per-packet one-way delay: 39.781 ms

Loss rate: 0.01%

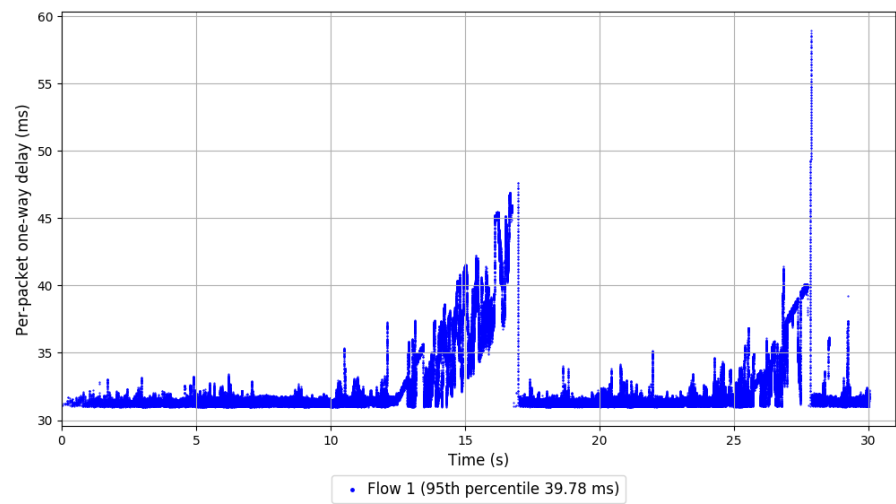
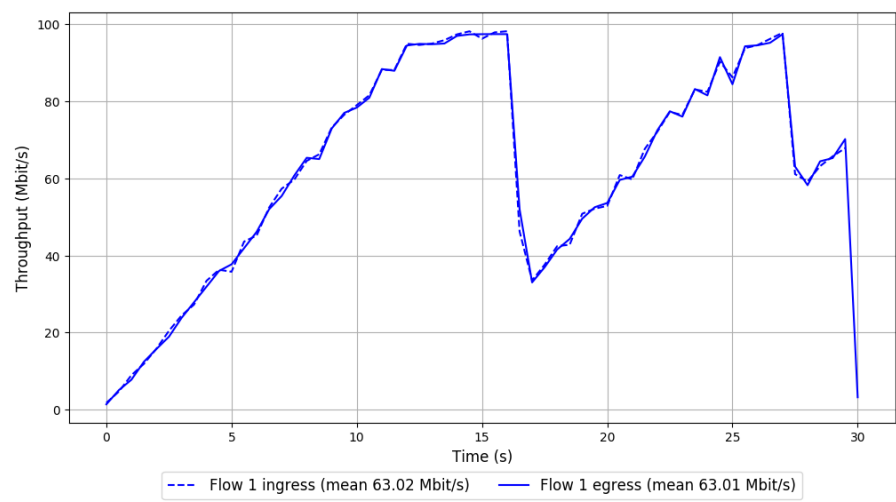
-- Flow 1:

Average throughput: 63.01 Mbit/s

95th percentile per-packet one-way delay: 39.781 ms

Loss rate: 0.01%

Run 6: Report of LEDBAT — Data Link

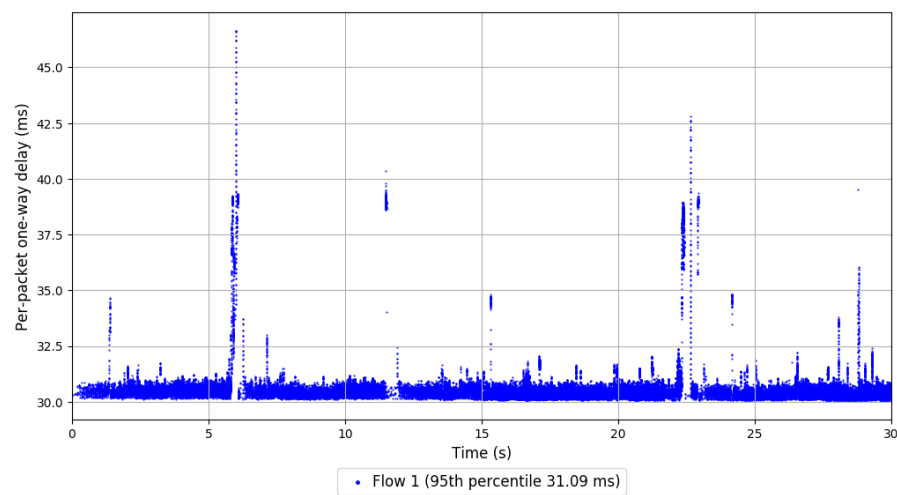
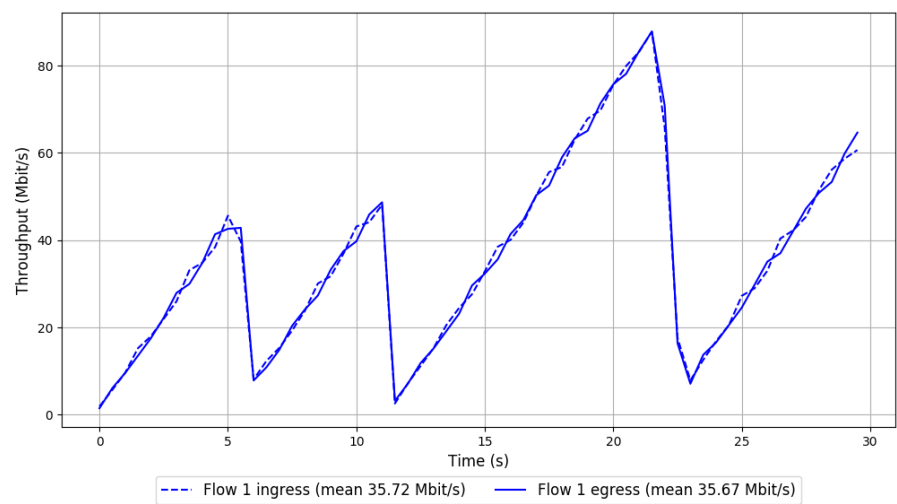


Run 7: Statistics of LEDBAT

Start at: 2018-02-13 04:45:34
End at: 2018-02-13 04:46:04
Local clock offset: 0.172 ms
Remote clock offset: -6.361 ms

Below is generated by plot.py at 2018-02-13 06:42:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 35.67 Mbit/s
95th percentile per-packet one-way delay: 31.089 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 35.67 Mbit/s
95th percentile per-packet one-way delay: 31.089 ms
Loss rate: 0.12%

Run 7: Report of LEDBAT — Data Link

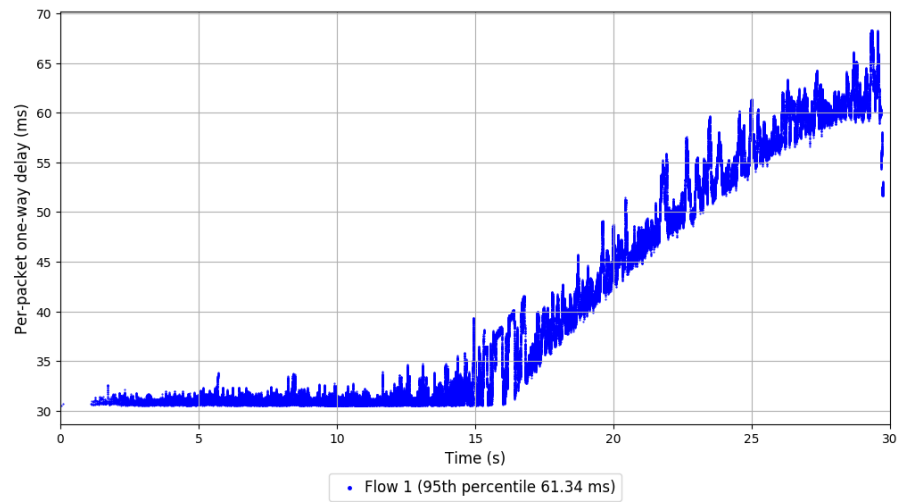
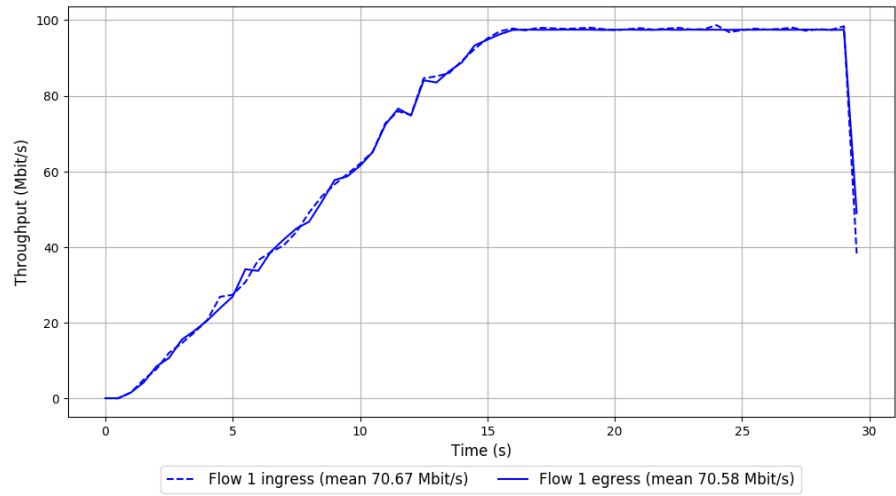


Run 8: Statistics of LEDBAT

Start at: 2018-02-13 05:13:48
End at: 2018-02-13 05:14:18
Local clock offset: -1.931 ms
Remote clock offset: -6.394 ms

Below is generated by plot.py at 2018-02-13 06:42:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 70.58 Mbit/s
95th percentile per-packet one-way delay: 61.341 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 70.58 Mbit/s
95th percentile per-packet one-way delay: 61.341 ms
Loss rate: 0.05%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-13 05:42:32

End at: 2018-02-13 05:43:02

Local clock offset: -1.476 ms

Remote clock offset: -8.32 ms

Below is generated by plot.py at 2018-02-13 06:42:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.89 Mbit/s

95th percentile per-packet one-way delay: 54.009 ms

Loss rate: 0.03%

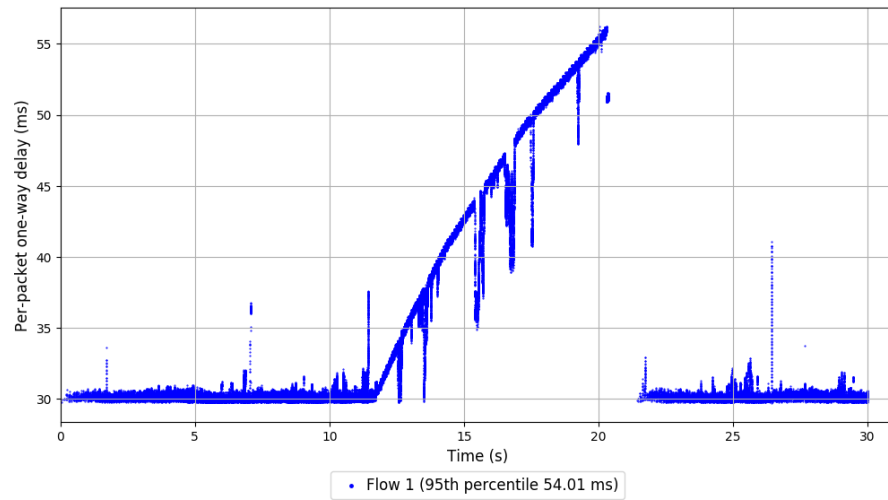
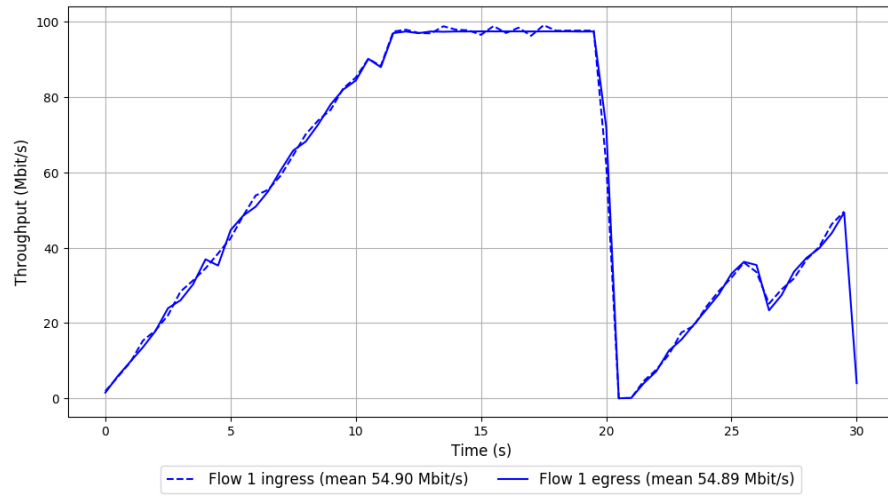
-- Flow 1:

Average throughput: 54.89 Mbit/s

95th percentile per-packet one-way delay: 54.009 ms

Loss rate: 0.03%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-13 06:09:20

End at: 2018-02-13 06:09:50

Local clock offset: -1.032 ms

Remote clock offset: -4.56 ms

Below is generated by plot.py at 2018-02-13 06:42:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.67 Mbit/s

95th percentile per-packet one-way delay: 57.347 ms

Loss rate: 0.00%

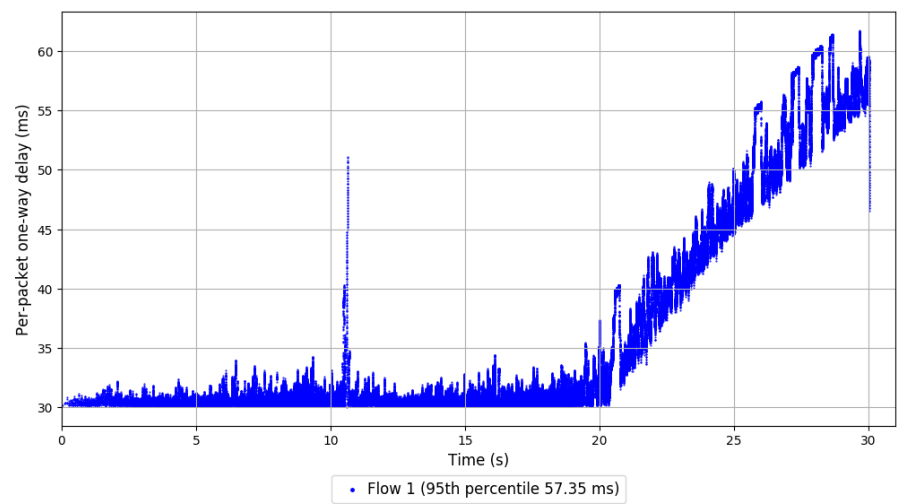
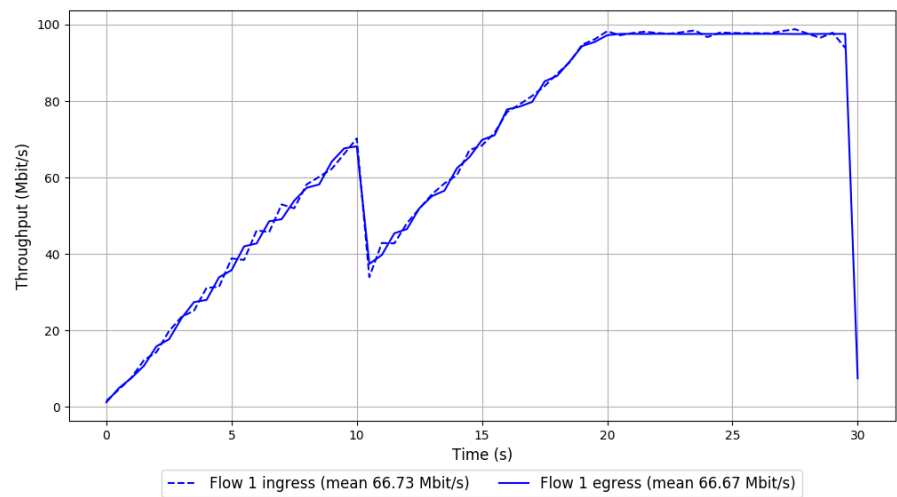
-- Flow 1:

Average throughput: 66.67 Mbit/s

95th percentile per-packet one-way delay: 57.347 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

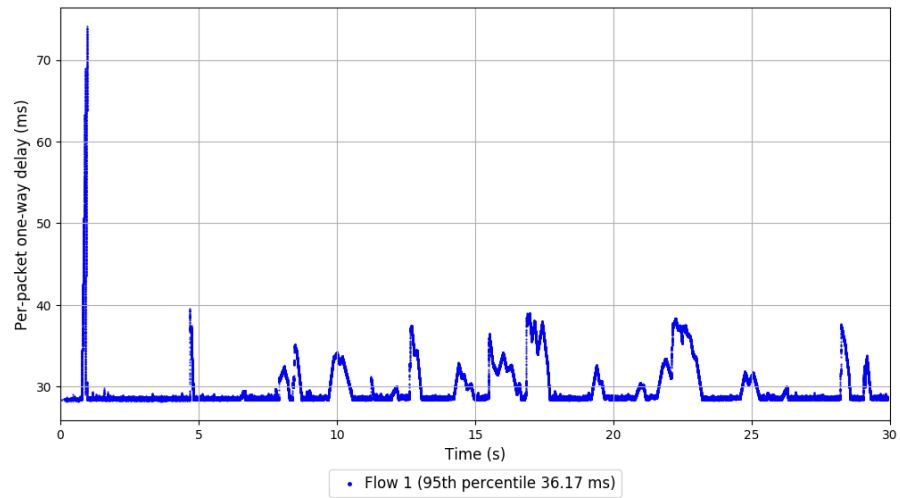
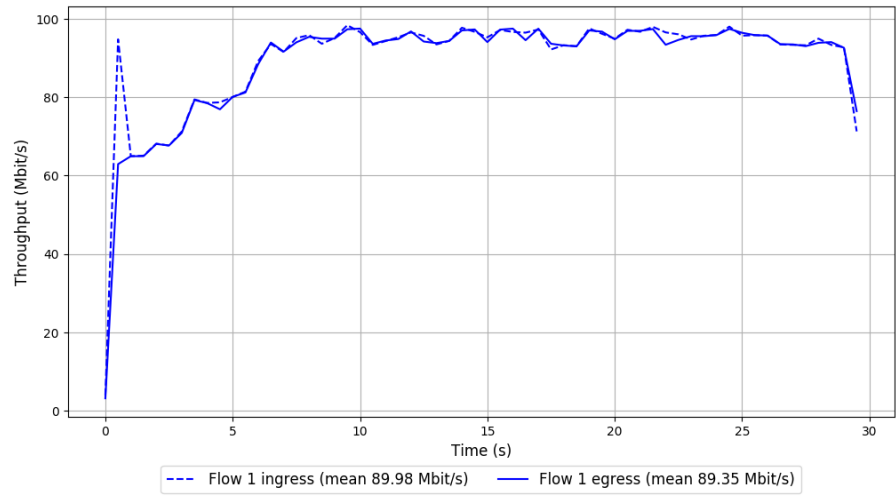


```
Run 1: Statistics of PCC

Start at: 2018-02-13 01:46:00
End at: 2018-02-13 01:46:30
Local clock offset: 1.996 ms
Remote clock offset: -12.163 ms

# Below is generated by plot.py at 2018-02-13 06:43:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.35 Mbit/s
95th percentile per-packet one-way delay: 36.173 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 89.35 Mbit/s
95th percentile per-packet one-way delay: 36.173 ms
Loss rate: 0.70%
```

Run 1: Report of PCC — Data Link

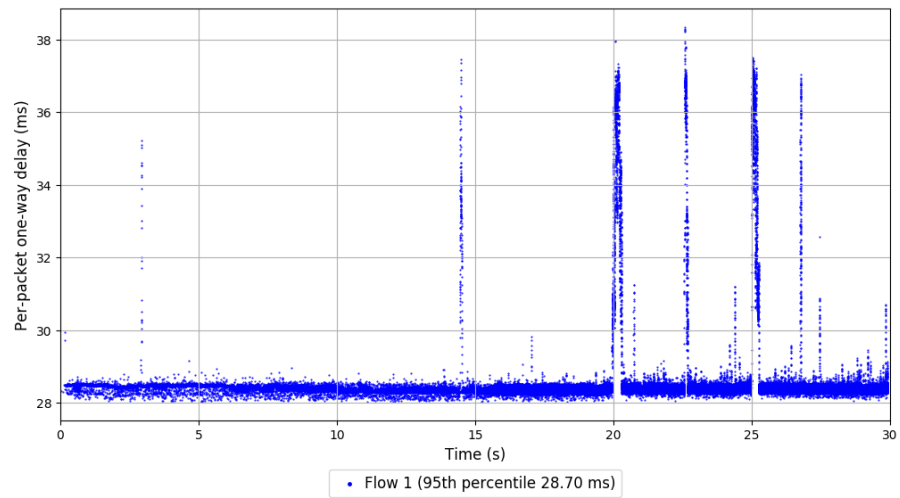
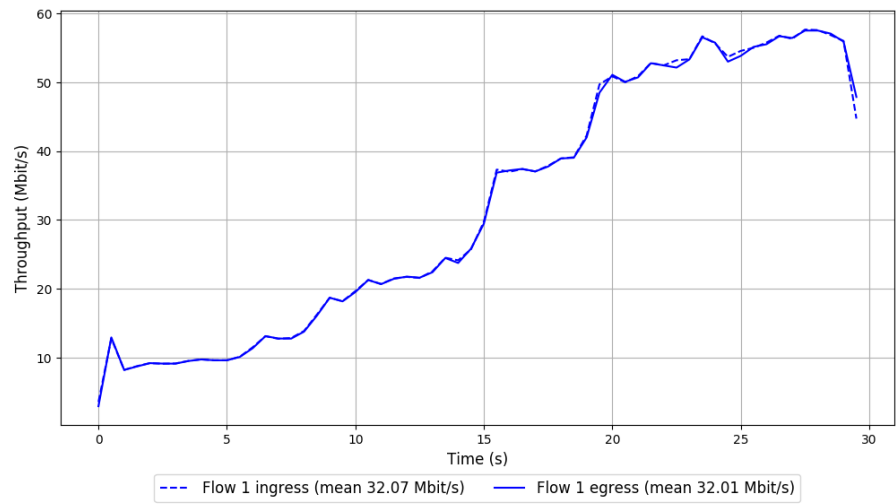


Run 2: Statistics of PCC

Start at: 2018-02-13 02:11:32
End at: 2018-02-13 02:12:02
Local clock offset: 0.657 ms
Remote clock offset: -7.368 ms

Below is generated by plot.py at 2018-02-13 06:43:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 32.01 Mbit/s
95th percentile per-packet one-way delay: 28.698 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 32.01 Mbit/s
95th percentile per-packet one-way delay: 28.698 ms
Loss rate: 0.17%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-13 02:36:48

End at: 2018-02-13 02:37:18

Local clock offset: 0.405 ms

Remote clock offset: -4.54 ms

Below is generated by plot.py at 2018-02-13 06:43:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.68 Mbit/s

95th percentile per-packet one-way delay: 38.217 ms

Loss rate: 0.09%

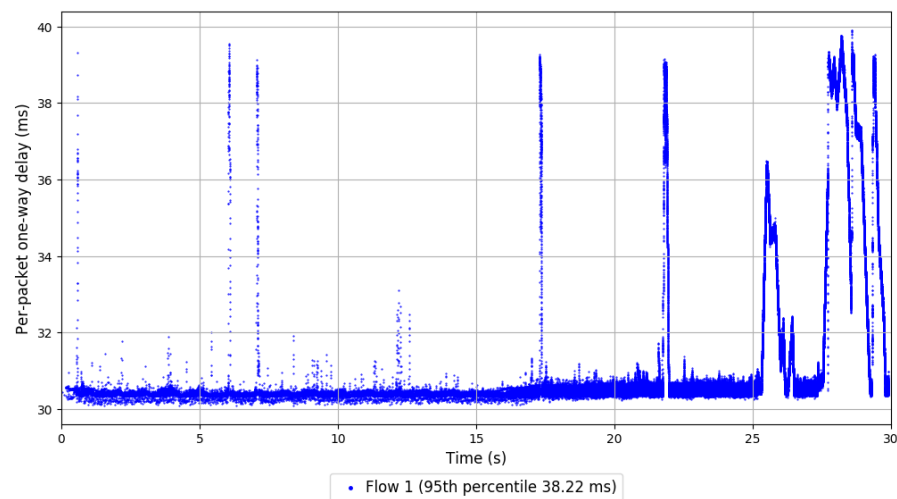
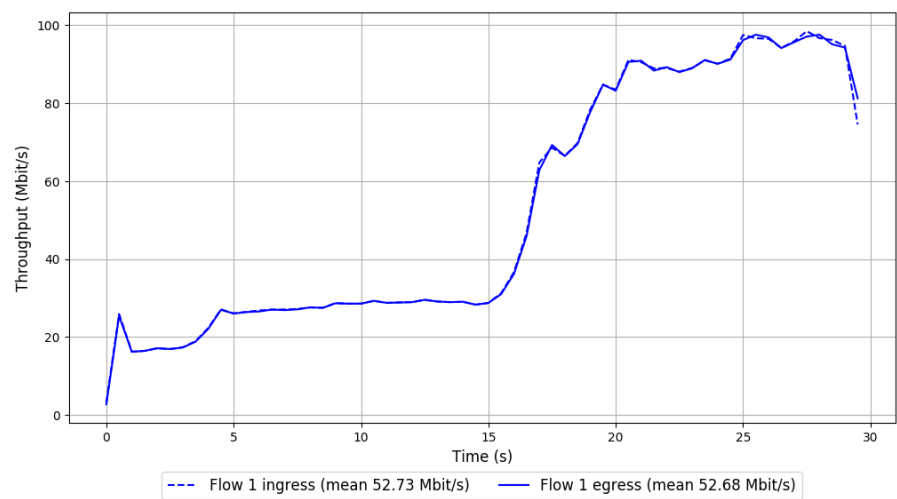
-- Flow 1:

Average throughput: 52.68 Mbit/s

95th percentile per-packet one-way delay: 38.217 ms

Loss rate: 0.09%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-13 03:01:25

End at: 2018-02-13 03:01:55

Local clock offset: 0.141 ms

Remote clock offset: -3.18 ms

Below is generated by plot.py at 2018-02-13 06:43:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.31 Mbit/s

95th percentile per-packet one-way delay: 38.349 ms

Loss rate: 0.61%

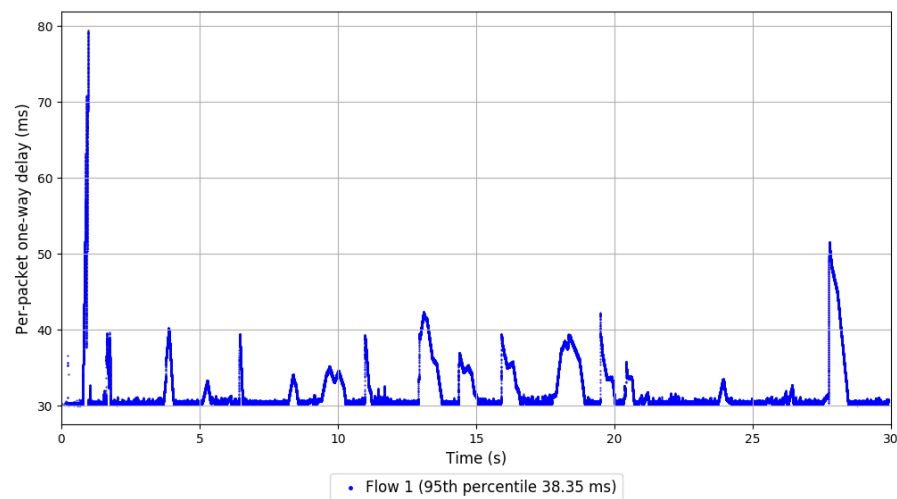
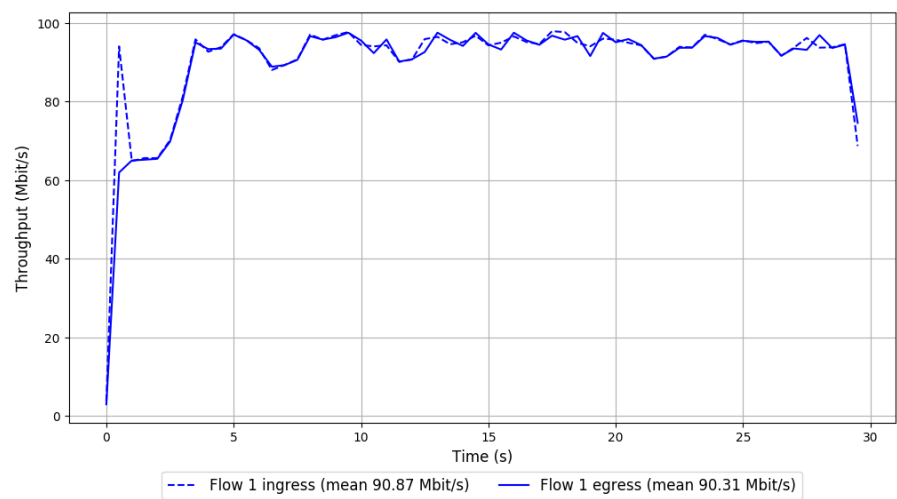
-- Flow 1:

Average throughput: 90.31 Mbit/s

95th percentile per-packet one-way delay: 38.349 ms

Loss rate: 0.61%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-13 03:26:16

End at: 2018-02-13 03:26:46

Local clock offset: 0.28 ms

Remote clock offset: -4.44 ms

Below is generated by plot.py at 2018-02-13 06:44:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.47 Mbit/s

95th percentile per-packet one-way delay: 48.288 ms

Loss rate: 0.80%

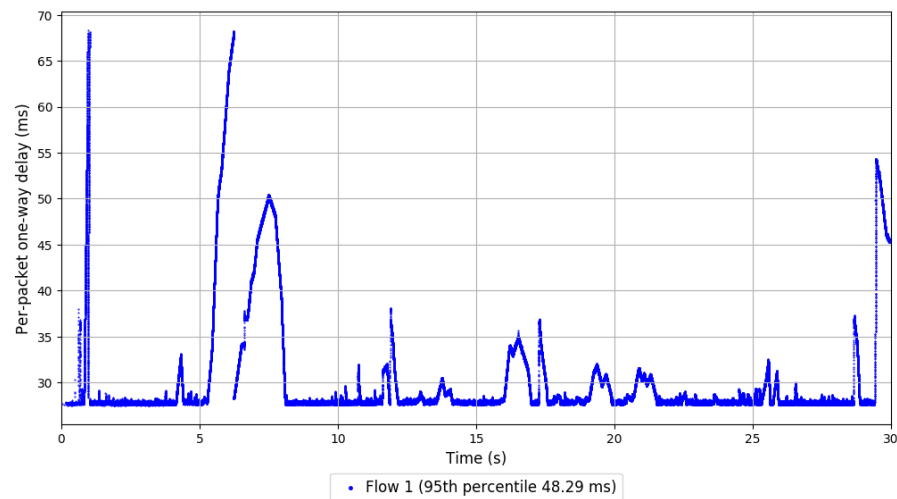
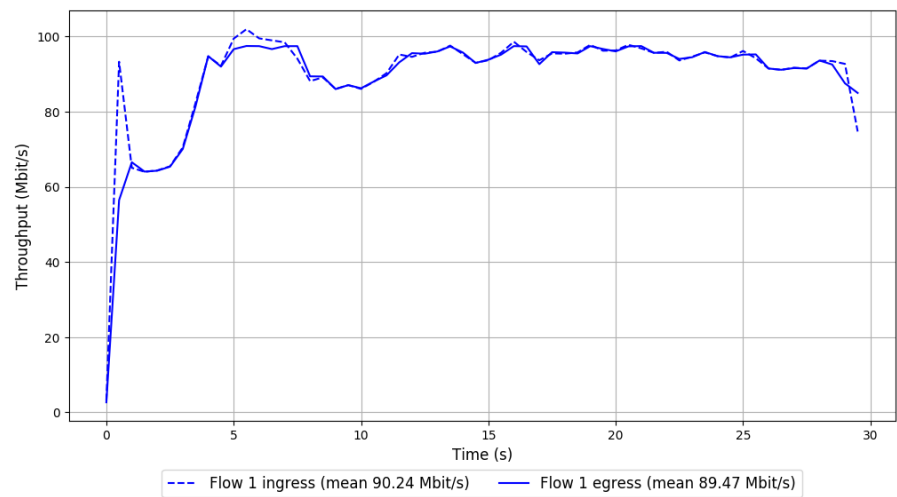
-- Flow 1:

Average throughput: 89.47 Mbit/s

95th percentile per-packet one-way delay: 48.288 ms

Loss rate: 0.80%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-13 03:53:00

End at: 2018-02-13 03:53:30

Local clock offset: 0.802 ms

Remote clock offset: -6.01 ms

Below is generated by plot.py at 2018-02-13 06:44:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.06 Mbit/s

95th percentile per-packet one-way delay: 37.447 ms

Loss rate: 0.87%

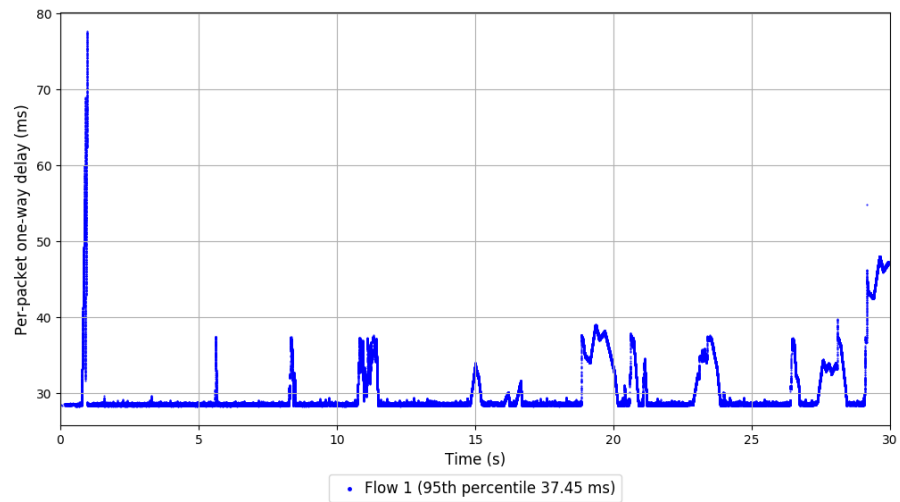
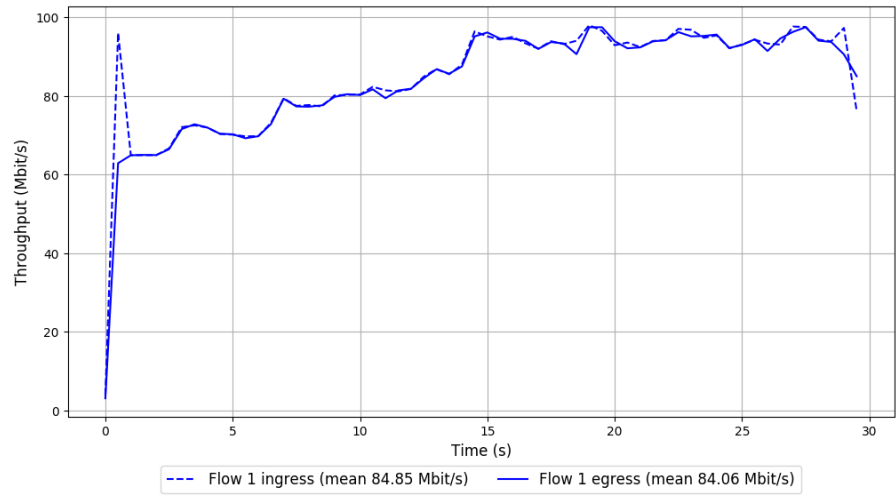
-- Flow 1:

Average throughput: 84.06 Mbit/s

95th percentile per-packet one-way delay: 37.447 ms

Loss rate: 0.87%

Run 6: Report of PCC — Data Link

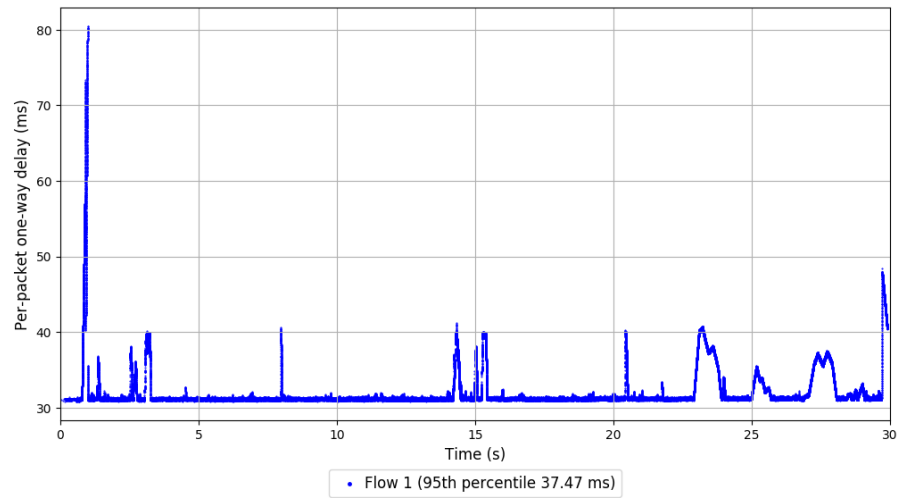
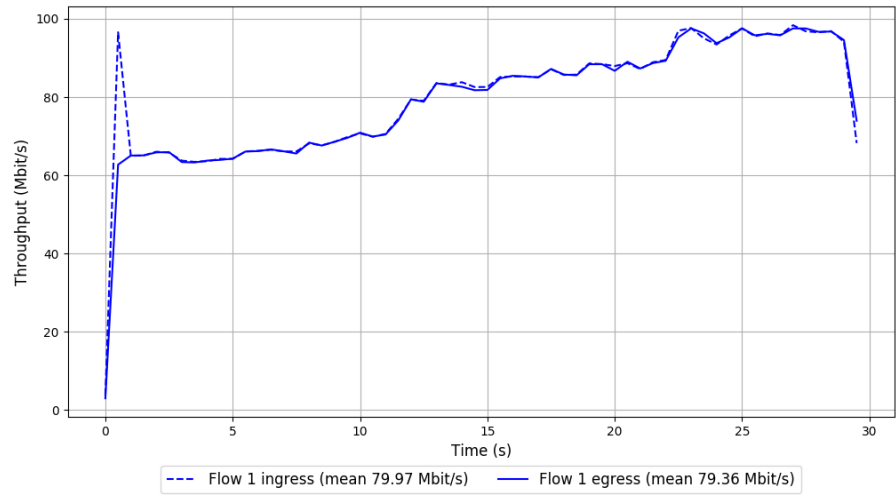


Run 7: Statistics of PCC

Start at: 2018-02-13 04:22:08
End at: 2018-02-13 04:22:38
Local clock offset: 0.45 ms
Remote clock offset: -5.456 ms

Below is generated by plot.py at 2018-02-13 06:44:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.36 Mbit/s
95th percentile per-packet one-way delay: 37.470 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 79.36 Mbit/s
95th percentile per-packet one-way delay: 37.470 ms
Loss rate: 0.74%

Run 7: Report of PCC — Data Link

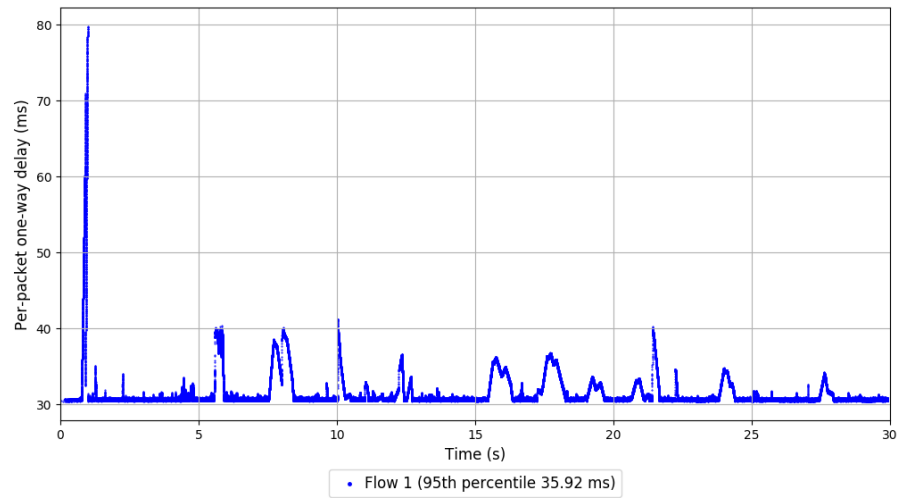
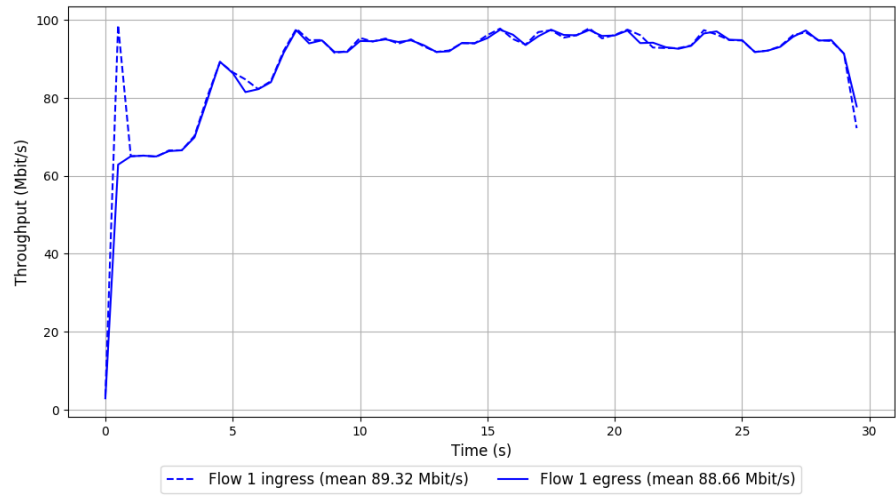


Run 8: Statistics of PCC

Start at: 2018-02-13 04:48:15
End at: 2018-02-13 04:48:45
Local clock offset: -0.238 ms
Remote clock offset: -6.686 ms

Below is generated by plot.py at 2018-02-13 06:44:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.66 Mbit/s
95th percentile per-packet one-way delay: 35.918 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 88.66 Mbit/s
95th percentile per-packet one-way delay: 35.918 ms
Loss rate: 0.74%

Run 8: Report of PCC — Data Link

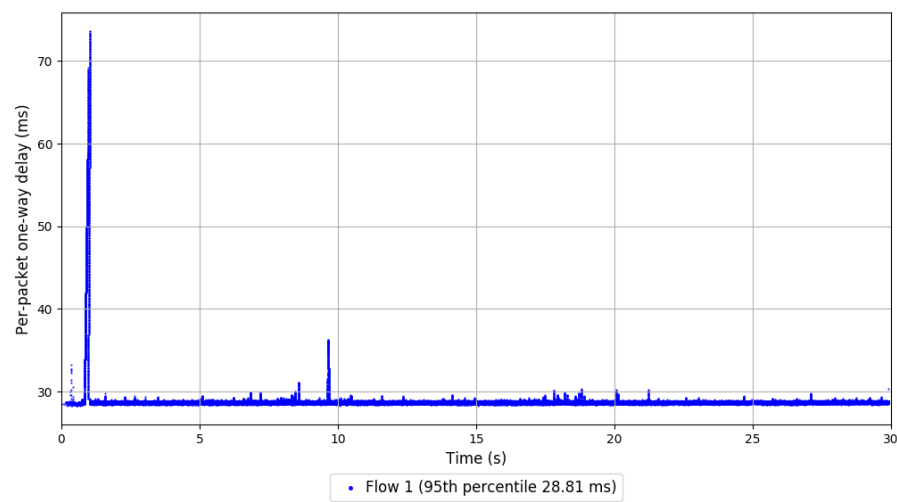
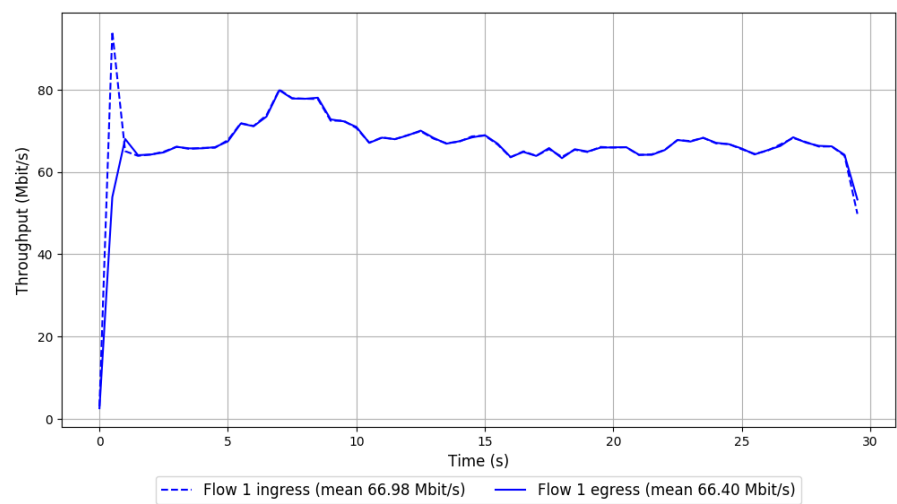


Run 9: Statistics of PCC

Start at: 2018-02-13 05:17:34
End at: 2018-02-13 05:18:04
Local clock offset: -2.194 ms
Remote clock offset: -9.231 ms

Below is generated by plot.py at 2018-02-13 06:44:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 66.40 Mbit/s
95th percentile per-packet one-way delay: 28.809 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 66.40 Mbit/s
95th percentile per-packet one-way delay: 28.809 ms
Loss rate: 0.85%

Run 9: Report of PCC — Data Link

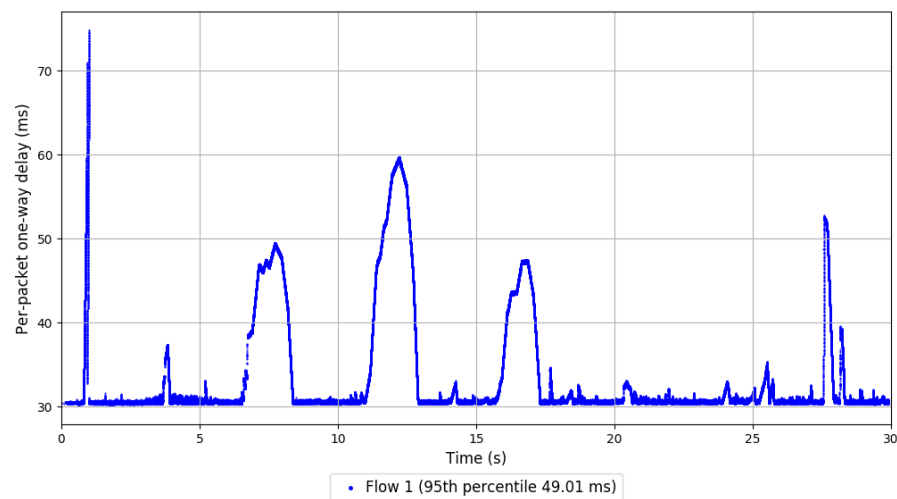
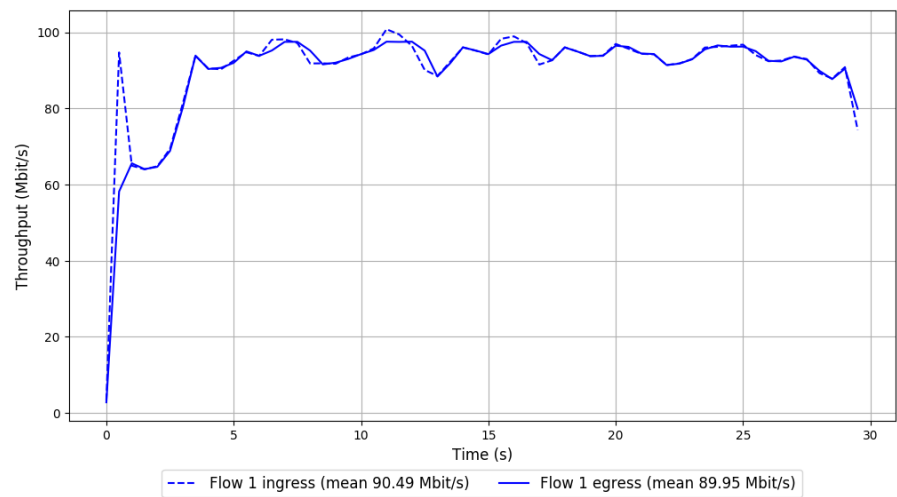


Run 10: Statistics of PCC

Start at: 2018-02-13 05:45:21
End at: 2018-02-13 05:45:51
Local clock offset: -1.422 ms
Remote clock offset: -8.357 ms

Below is generated by plot.py at 2018-02-13 06:44:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.95 Mbit/s
95th percentile per-packet one-way delay: 49.010 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 89.95 Mbit/s
95th percentile per-packet one-way delay: 49.010 ms
Loss rate: 0.61%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

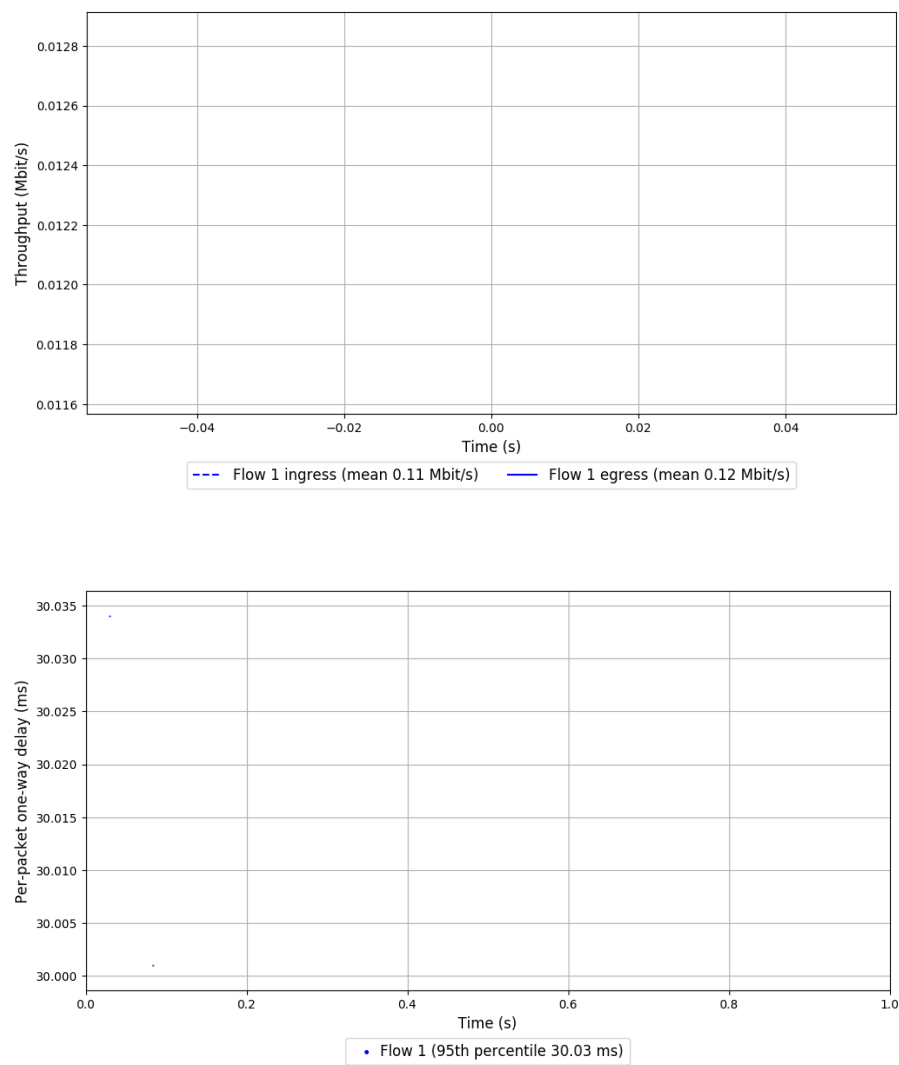
Start at: 2018-02-13 02:01:19

End at: 2018-02-13 02:01:49

Local clock offset: 1.164 ms

Remote clock offset: -5.801 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-13 02:26:43

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

Local clock offset: 0.363 ms

Remote clock offset: -6.742 ms

Below is generated by plot.py at 2018-02-13 06:44:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.38 Mbit/s

95th percentile per-packet one-way delay: 57.381 ms

Loss rate: 0.89%

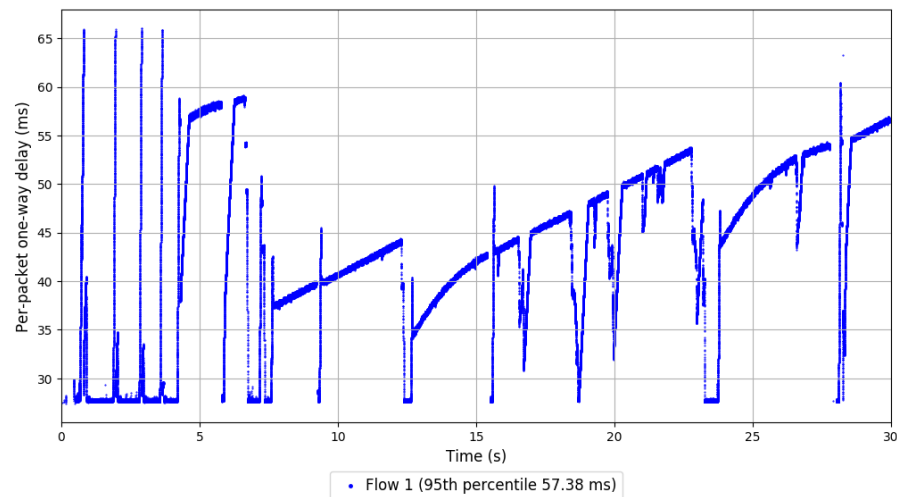
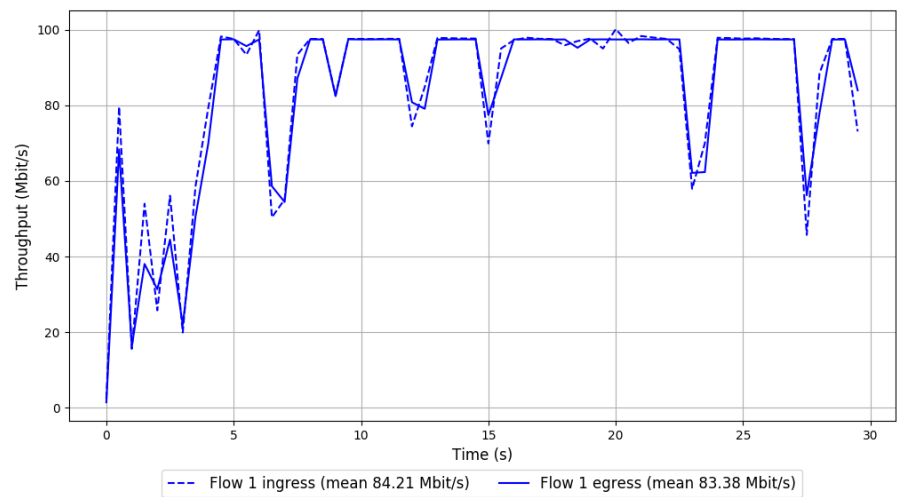
-- Flow 1:

Average throughput: 83.38 Mbit/s

95th percentile per-packet one-way delay: 57.381 ms

Loss rate: 0.89%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-13 02:51:35

End at: 2018-02-13 02:52:05

Local clock offset: 0.295 ms

Remote clock offset: -4.317 ms

Below is generated by plot.py at 2018-02-13 06:44:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.34 Mbit/s

95th percentile per-packet one-way delay: 30.902 ms

Loss rate: 0.04%

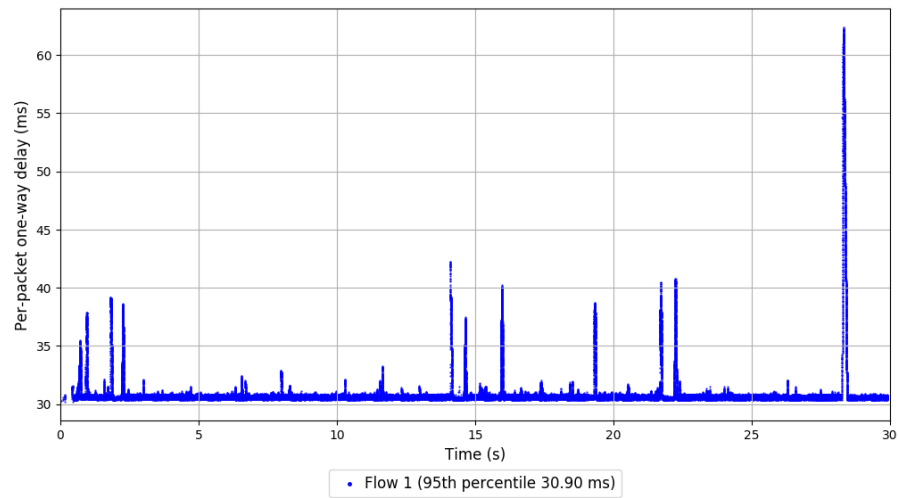
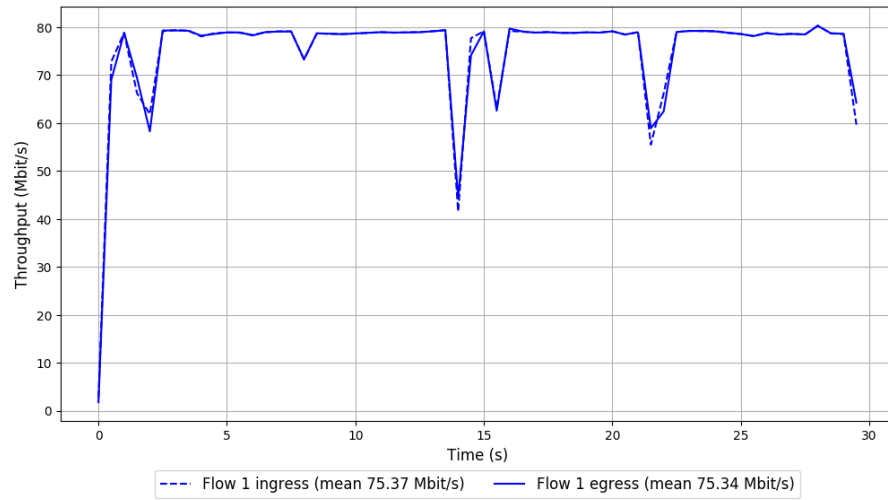
-- Flow 1:

Average throughput: 75.34 Mbit/s

95th percentile per-packet one-way delay: 30.902 ms

Loss rate: 0.04%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-13 03:16:22

End at: 2018-02-13 03:16:52

Local clock offset: 0.249 ms

Remote clock offset: -2.757 ms

Below is generated by plot.py at 2018-02-13 06:45:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.61 Mbit/s

95th percentile per-packet one-way delay: 60.172 ms

Loss rate: 0.83%

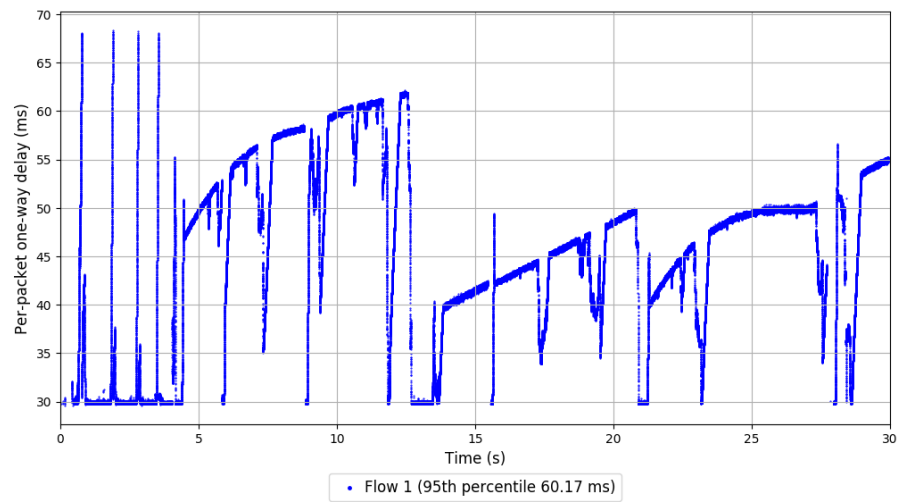
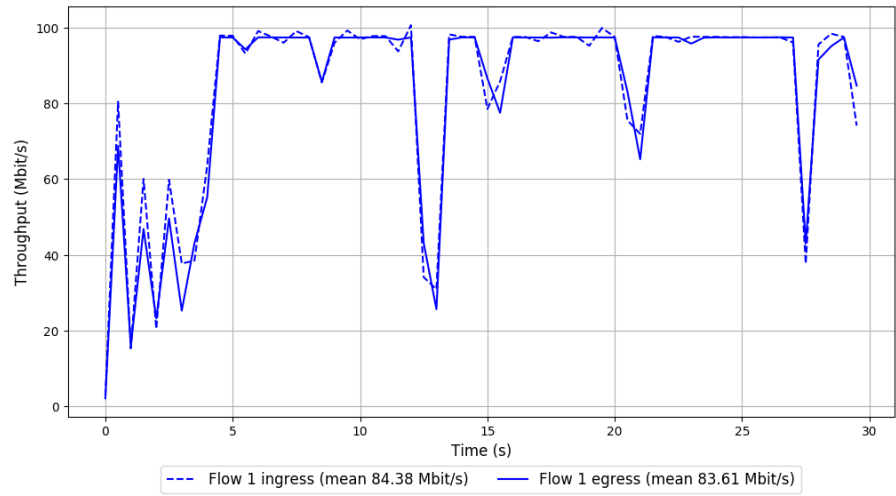
-- Flow 1:

Average throughput: 83.61 Mbit/s

95th percentile per-packet one-way delay: 60.172 ms

Loss rate: 0.83%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-13 03:41:58

End at: 2018-02-13 03:42:28

Local clock offset: 0.379 ms

Remote clock offset: -3.587 ms

Below is generated by plot.py at 2018-02-13 06:45:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.26 Mbit/s

95th percentile per-packet one-way delay: 58.625 ms

Loss rate: 1.04%

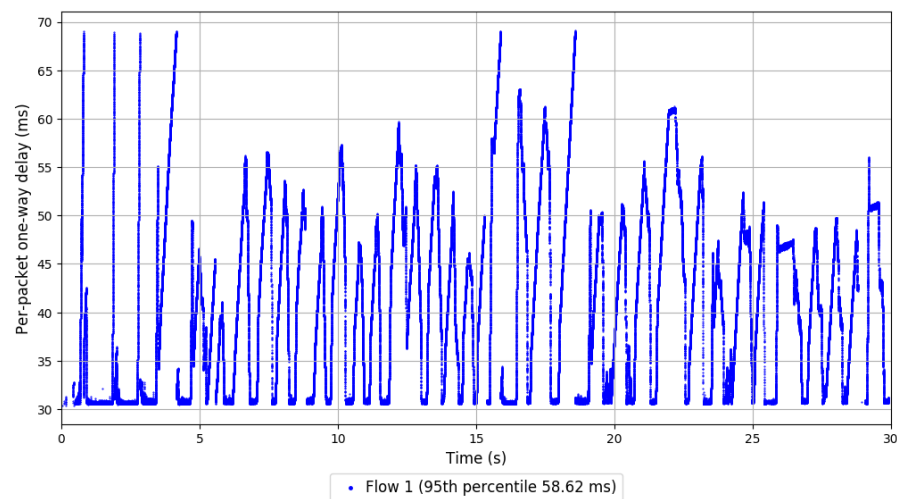
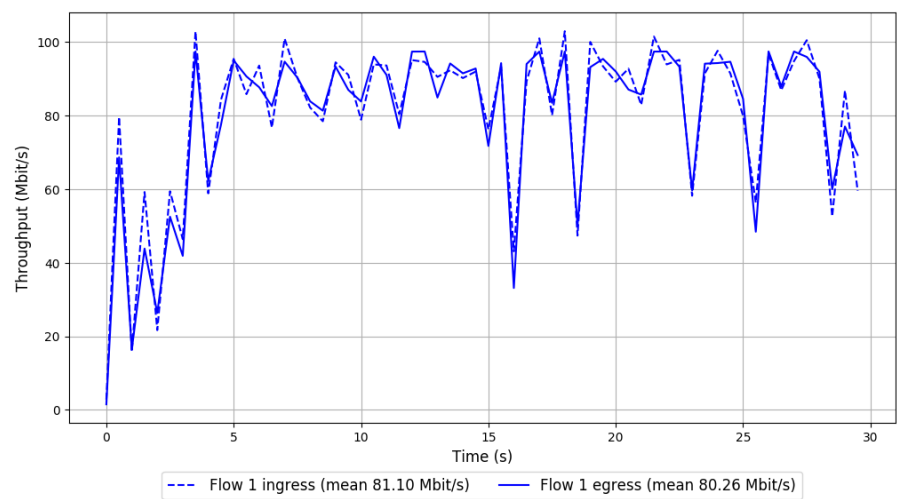
-- Flow 1:

Average throughput: 80.26 Mbit/s

95th percentile per-packet one-way delay: 58.625 ms

Loss rate: 1.04%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-13 04:10:18

End at: 2018-02-13 04:10:48

Local clock offset: 0.931 ms

Remote clock offset: -6.925 ms

Below is generated by plot.py at 2018-02-13 06:45:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.31 Mbit/s

95th percentile per-packet one-way delay: 50.452 ms

Loss rate: 0.70%

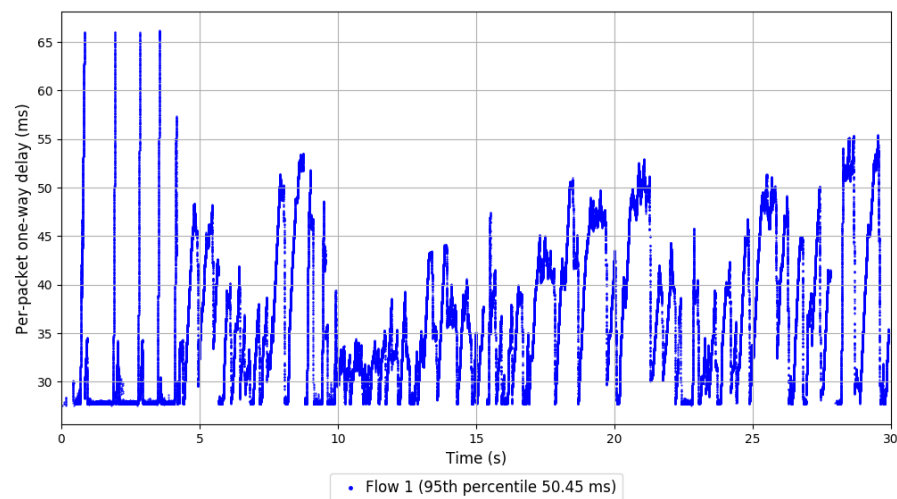
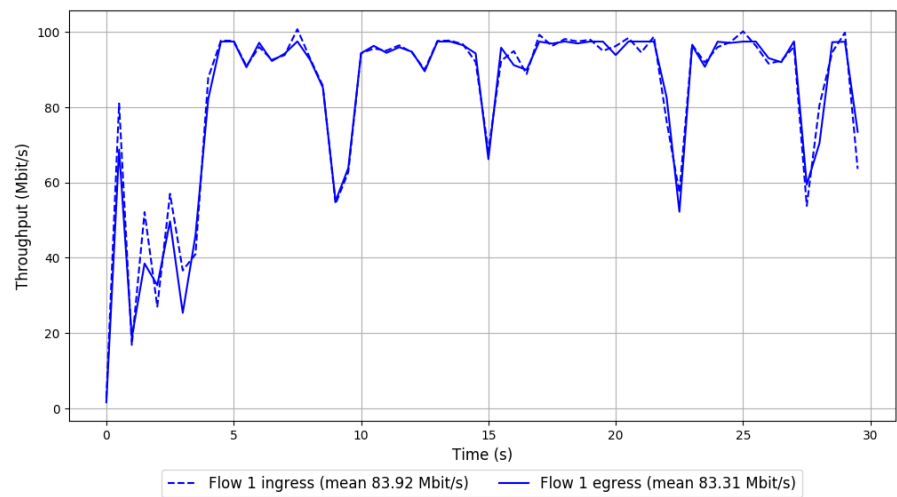
-- Flow 1:

Average throughput: 83.31 Mbit/s

95th percentile per-packet one-way delay: 50.452 ms

Loss rate: 0.70%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-13 04:38:32

End at: 2018-02-13 04:39:02

Local clock offset: 0.295 ms

Remote clock offset: -9.442 ms

Below is generated by plot.py at 2018-02-13 06:45:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.40 Mbit/s

95th percentile per-packet one-way delay: 28.823 ms

Loss rate: 0.09%

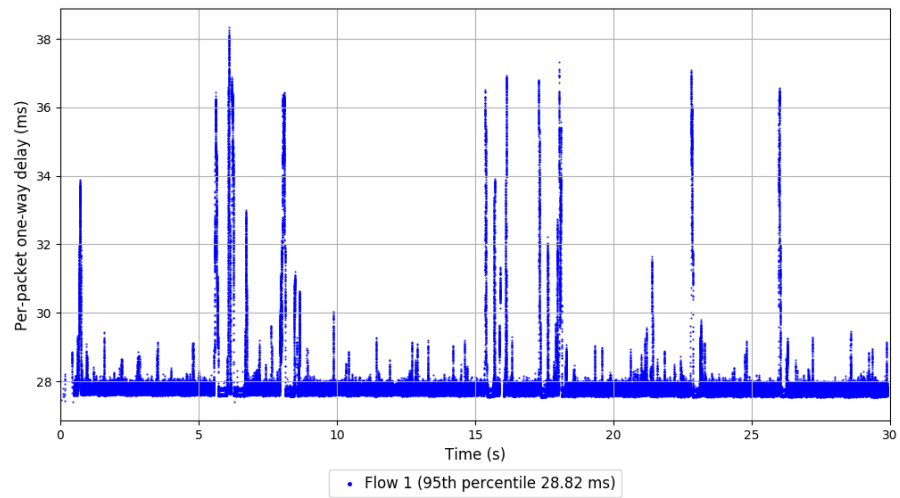
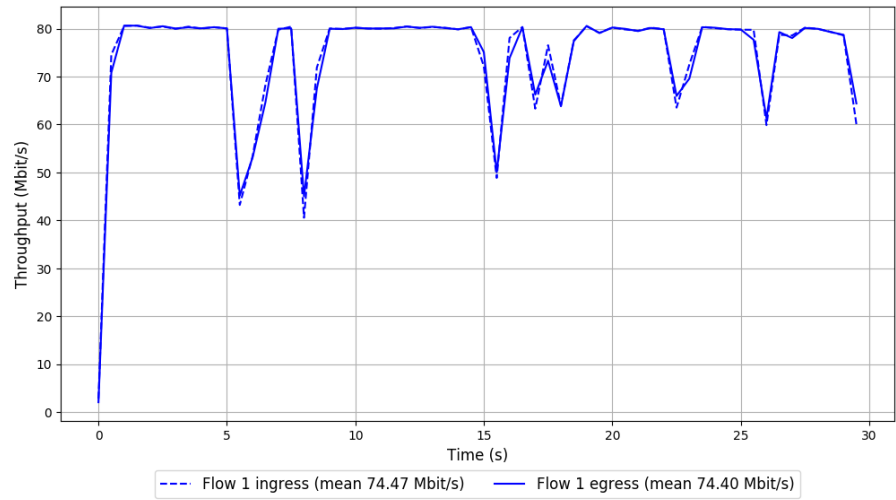
-- Flow 1:

Average throughput: 74.40 Mbit/s

95th percentile per-packet one-way delay: 28.823 ms

Loss rate: 0.09%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-13 05:04:04

End at: 2018-02-13 05:04:34

Local clock offset: -1.565 ms

Remote clock offset: -6.157 ms

Below is generated by plot.py at 2018-02-13 06:45:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.69 Mbit/s

95th percentile per-packet one-way delay: 30.506 ms

Loss rate: 0.00%

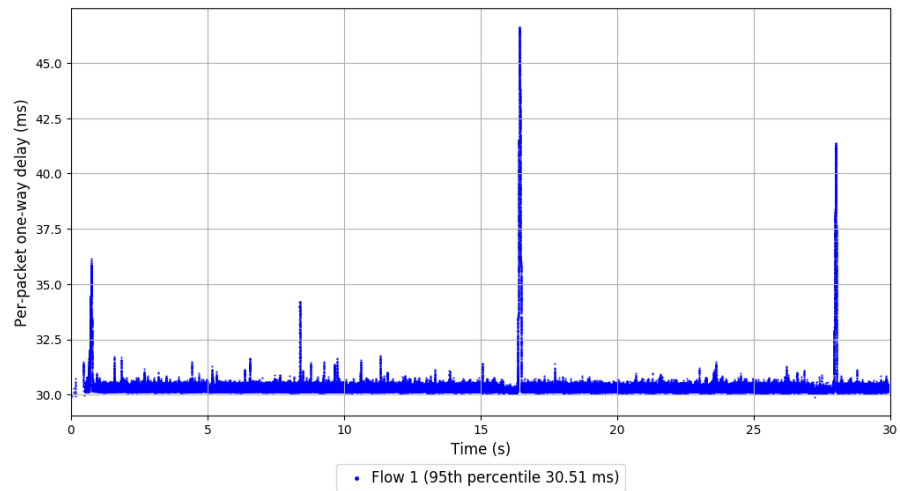
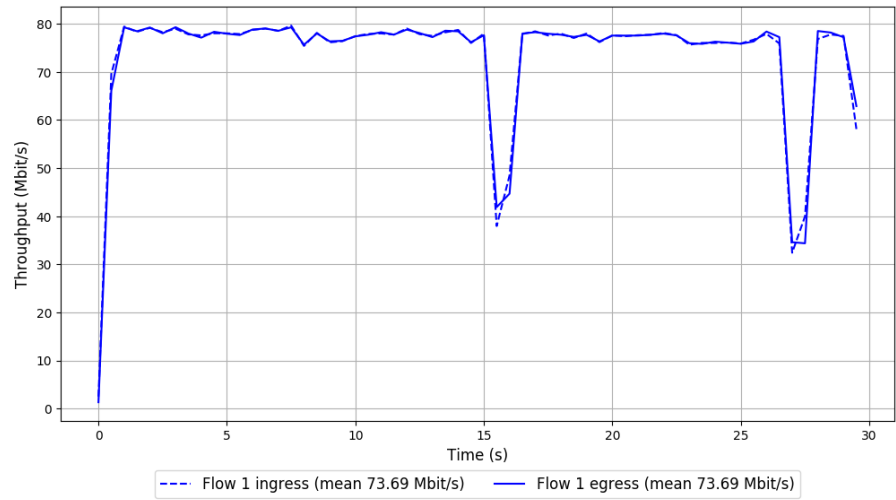
-- Flow 1:

Average throughput: 73.69 Mbit/s

95th percentile per-packet one-way delay: 30.506 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link

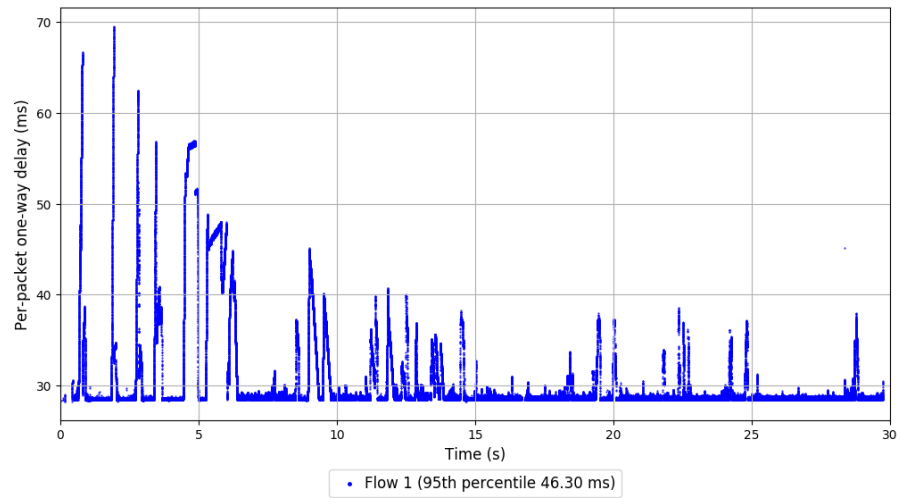
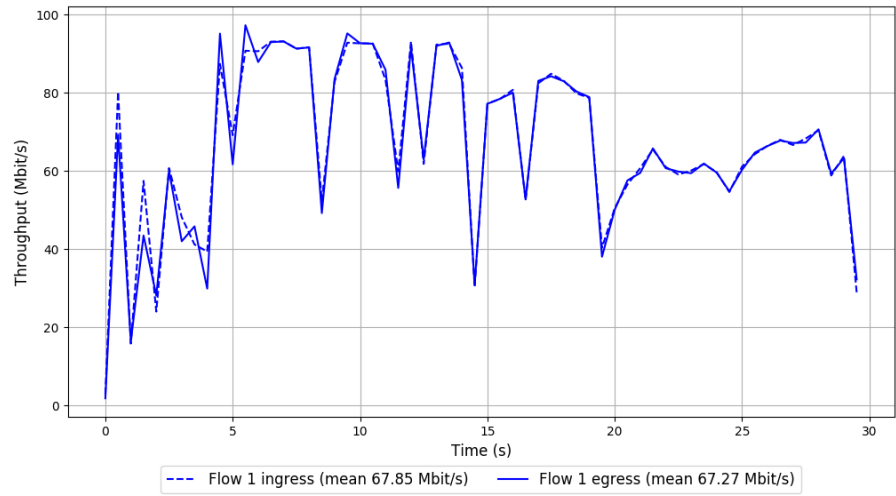


Run 9: Statistics of QUIC Cubic

Start at: 2018-02-13 05:34:49
End at: 2018-02-13 05:35:19
Local clock offset: -1.379 ms
Remote clock offset: -10.211 ms

Below is generated by plot.py at 2018-02-13 06:45:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 67.27 Mbit/s
95th percentile per-packet one-way delay: 46.303 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 67.27 Mbit/s
95th percentile per-packet one-way delay: 46.303 ms
Loss rate: 0.84%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-13 06:00:35

End at: 2018-02-13 06:01:05

Local clock offset: -1.208 ms

Remote clock offset: -5.799 ms

Below is generated by plot.py at 2018-02-13 06:46:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.13 Mbit/s

95th percentile per-packet one-way delay: 30.207 ms

Loss rate: 0.09%

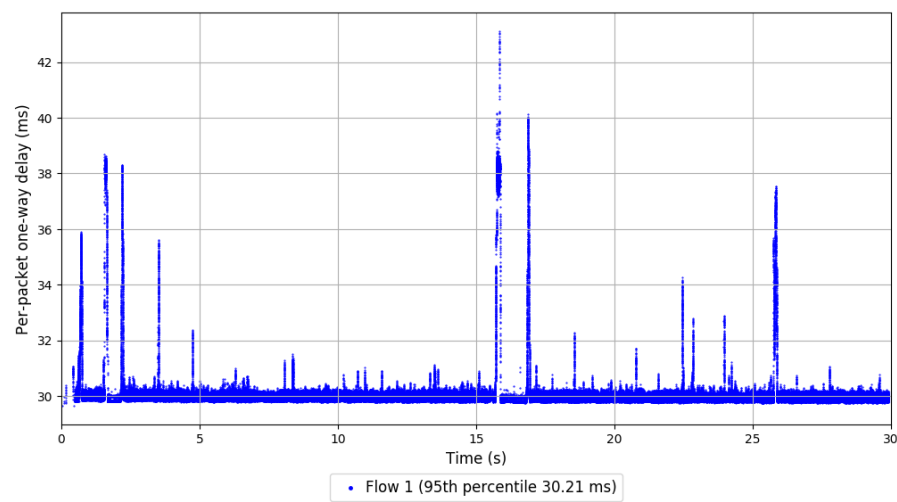
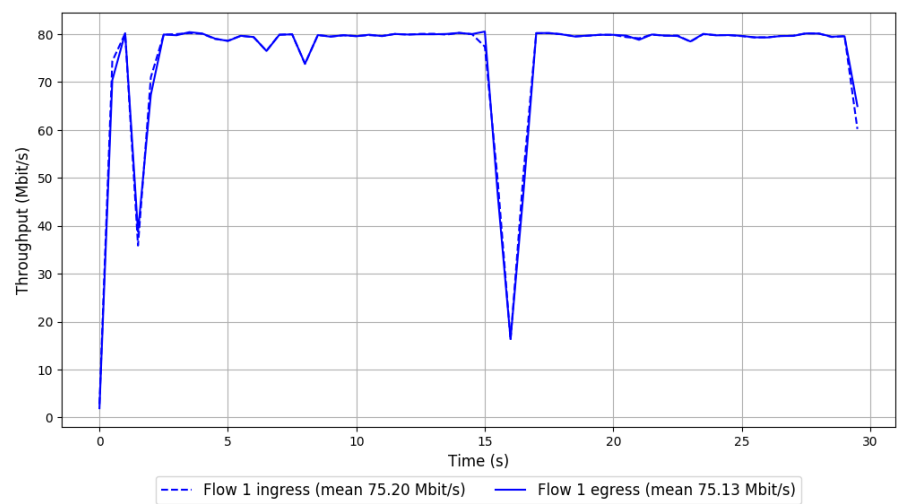
-- Flow 1:

Average throughput: 75.13 Mbit/s

95th percentile per-packet one-way delay: 30.207 ms

Loss rate: 0.09%

Run 10: Report of QUIC Cubic — Data Link

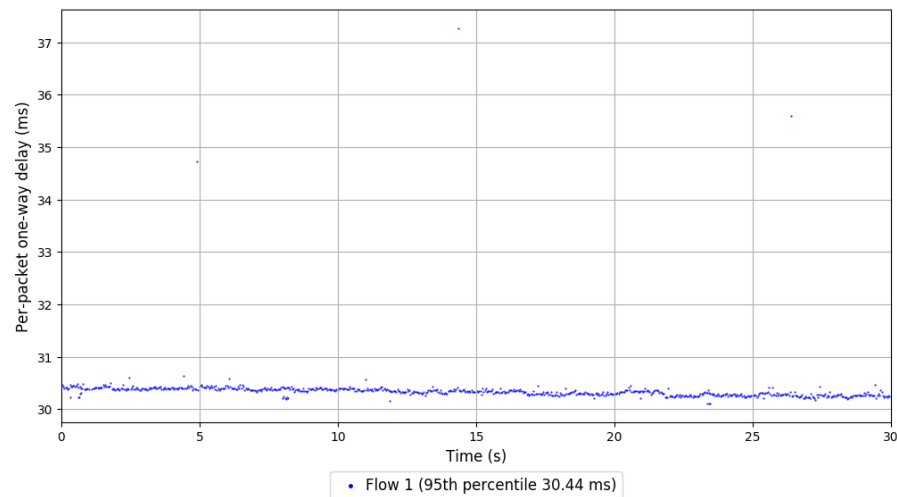
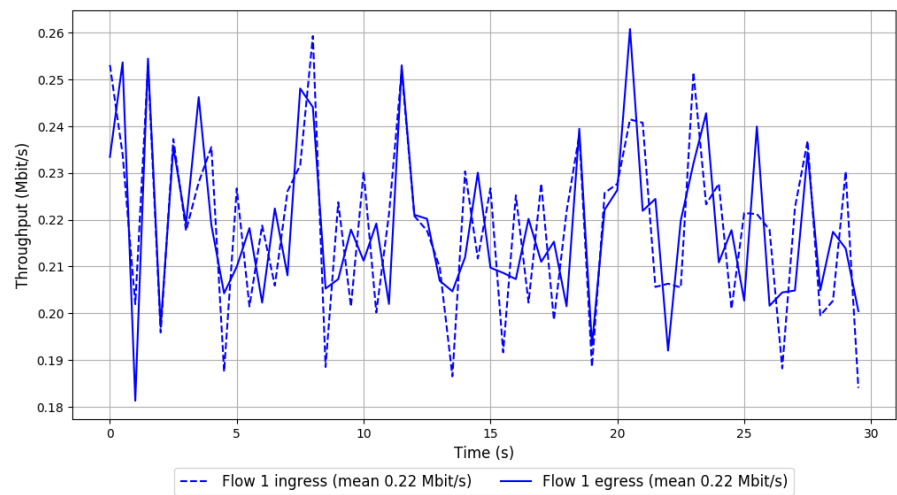


Run 1: Statistics of SCReAM

Start at: 2018-02-13 01:51:22
End at: 2018-02-13 01:51:52
Local clock offset: 2.015 ms
Remote clock offset: -8.616 ms

Below is generated by plot.py at 2018-02-13 06:46:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.437 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.437 ms
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

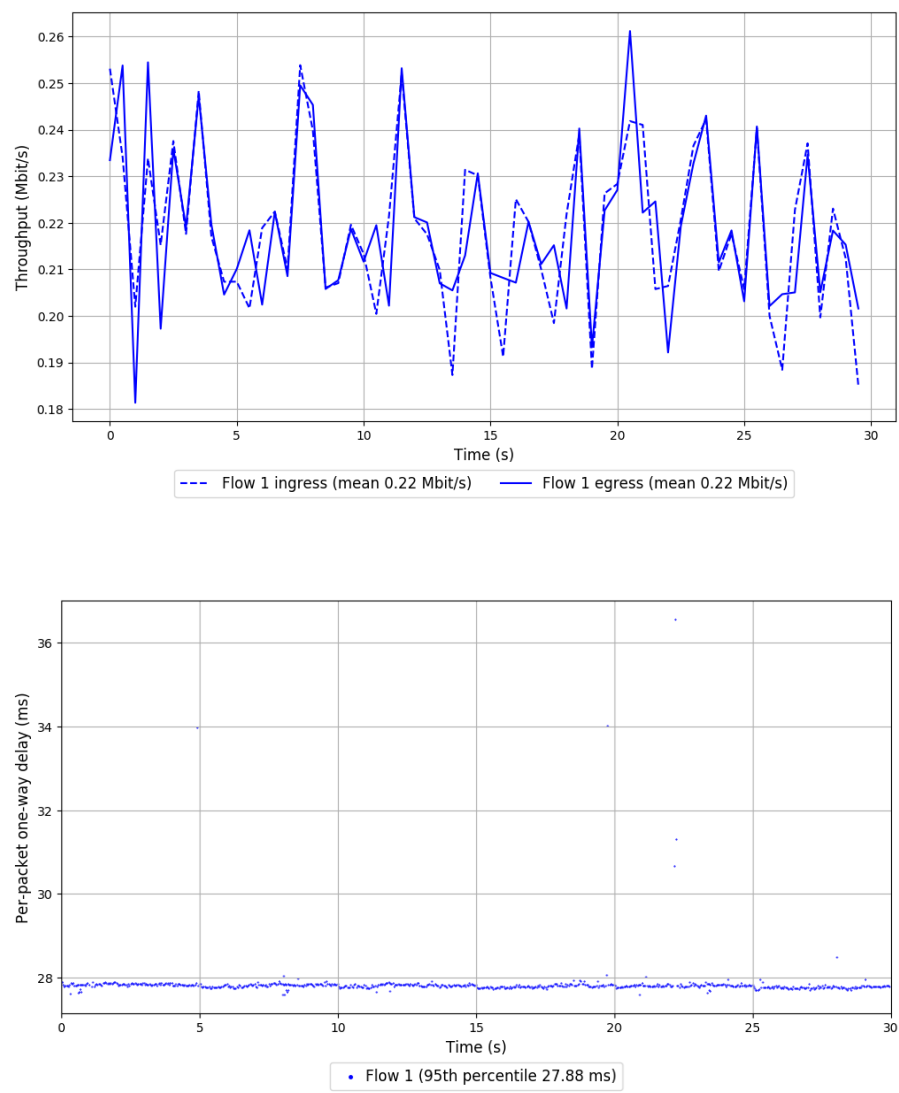


Run 2: Statistics of SCReAM

Start at: 2018-02-13 02:17:09
End at: 2018-02-13 02:17:39
Local clock offset: 0.502 ms
Remote clock offset: -6.853 ms

Below is generated by plot.py at 2018-02-13 06:46:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.875 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.875 ms
Loss rate: 0.00%

Run 2: Report of SCRaM — Data Link

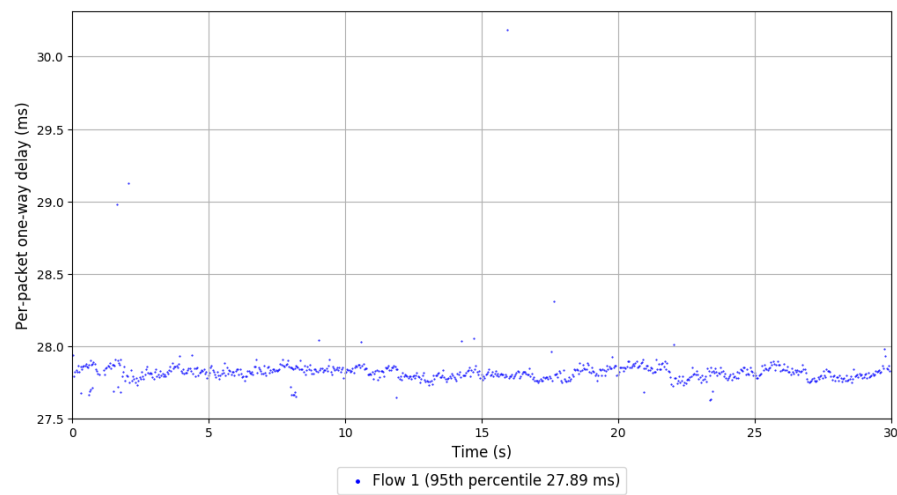
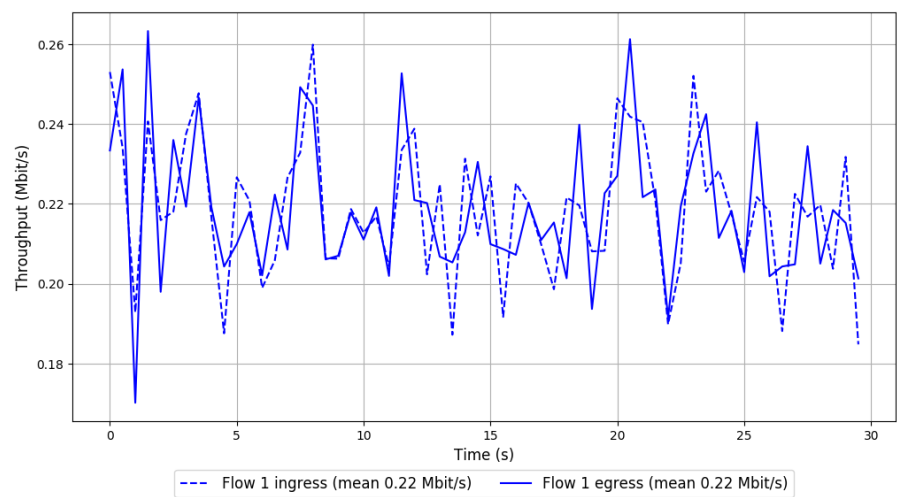


Run 3: Statistics of SCReAM

Start at: 2018-02-13 02:42:12
End at: 2018-02-13 02:42:42
Local clock offset: 0.298 ms
Remote clock offset: -6.531 ms

Below is generated by plot.py at 2018-02-13 06:46:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.886 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.886 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-02-13 03:06:49

End at: 2018-02-13 03:07:19

Local clock offset: 0.222 ms

Remote clock offset: -3.16 ms

Below is generated by plot.py at 2018-02-13 06:46:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.682 ms

Loss rate: 0.00%

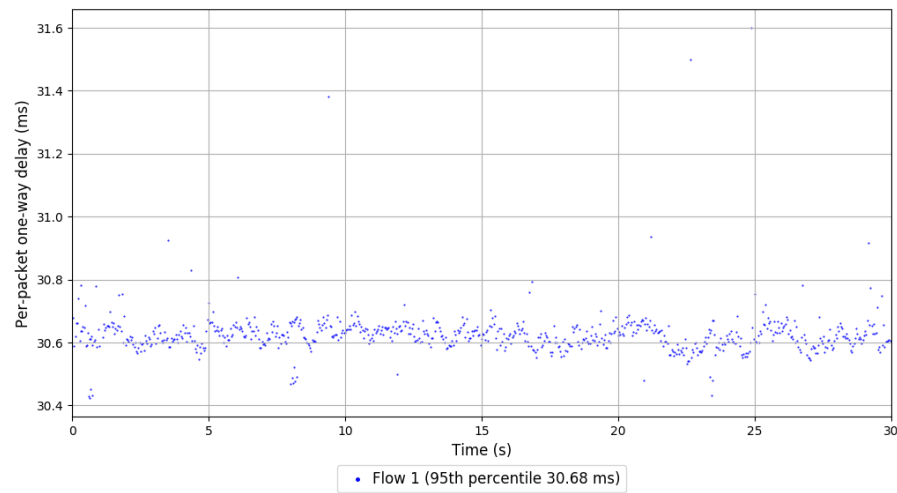
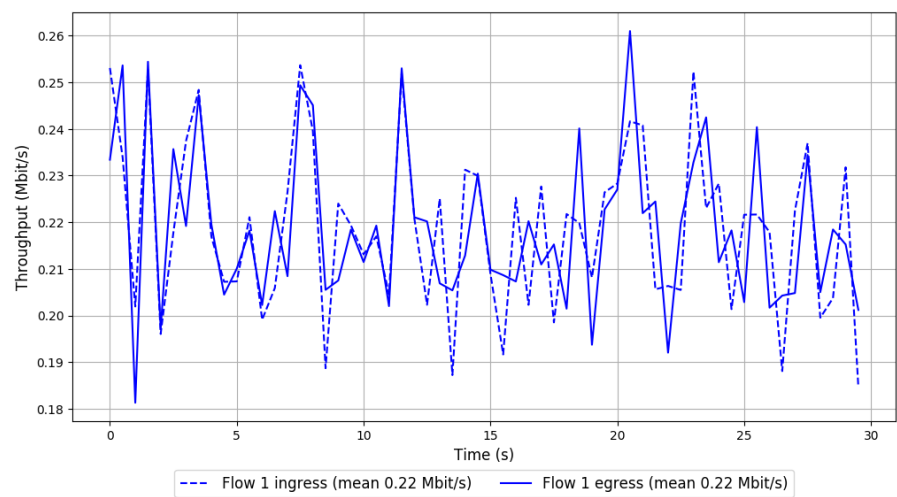
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.682 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

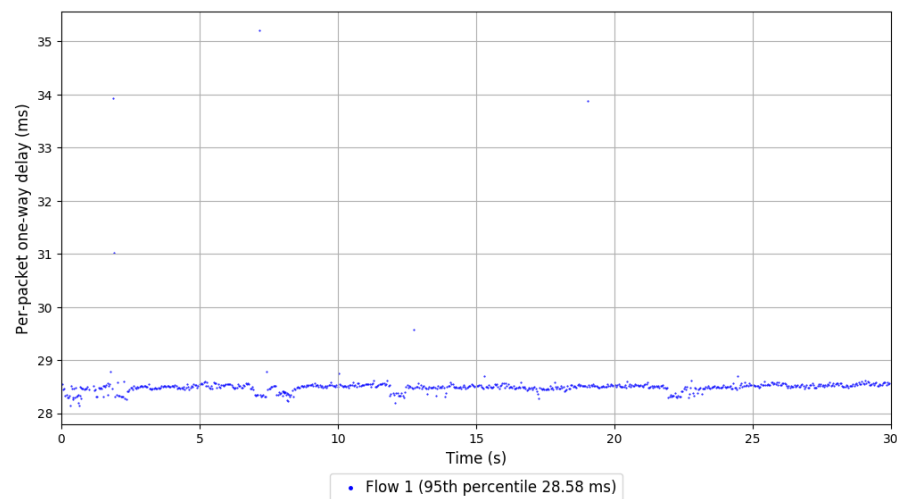
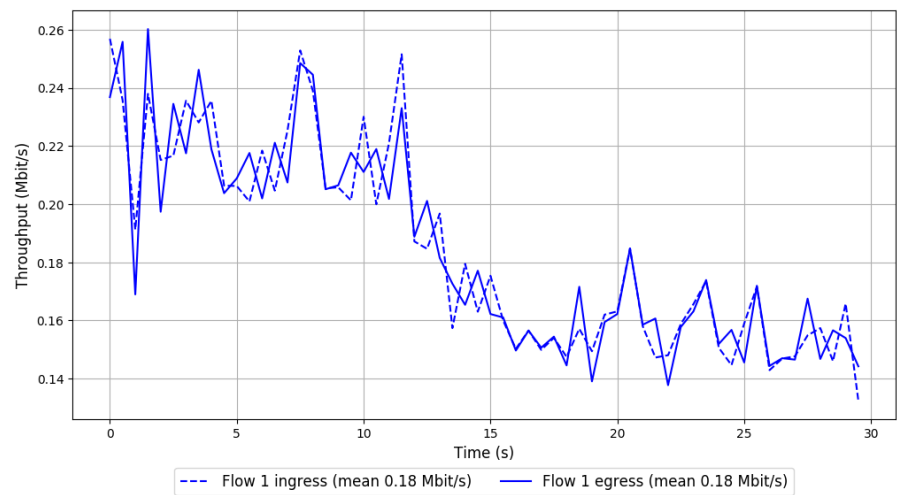


Run 5: Statistics of SCReAM

Start at: 2018-02-13 03:31:50
End at: 2018-02-13 03:32:20
Local clock offset: 0.151 ms
Remote clock offset: -4.596 ms

Below is generated by plot.py at 2018-02-13 06:46:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 28.577 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 28.577 ms
Loss rate: 0.18%

Run 5: Report of SReAM — Data Link

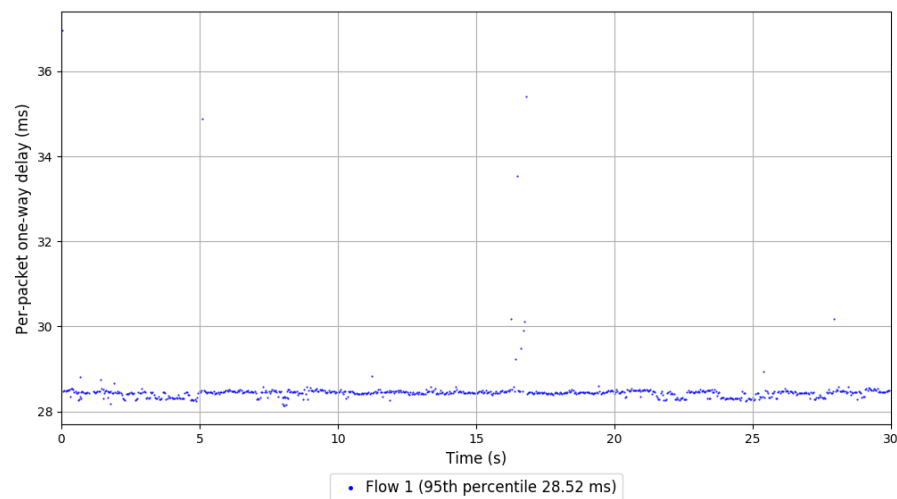
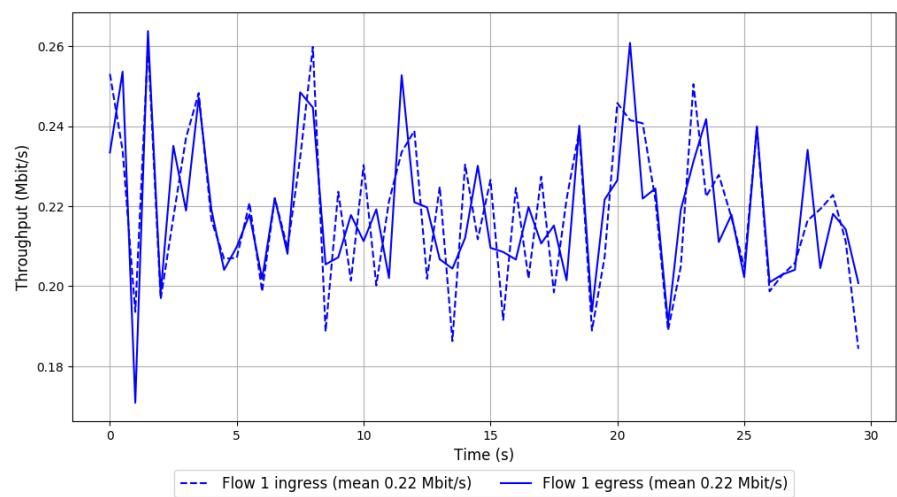


Run 6: Statistics of SCReAM

Start at: 2018-02-13 03:58:49
End at: 2018-02-13 03:59:19
Local clock offset: 0.86 ms
Remote clock offset: -6.104 ms

Below is generated by plot.py at 2018-02-13 06:46:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.523 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.523 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

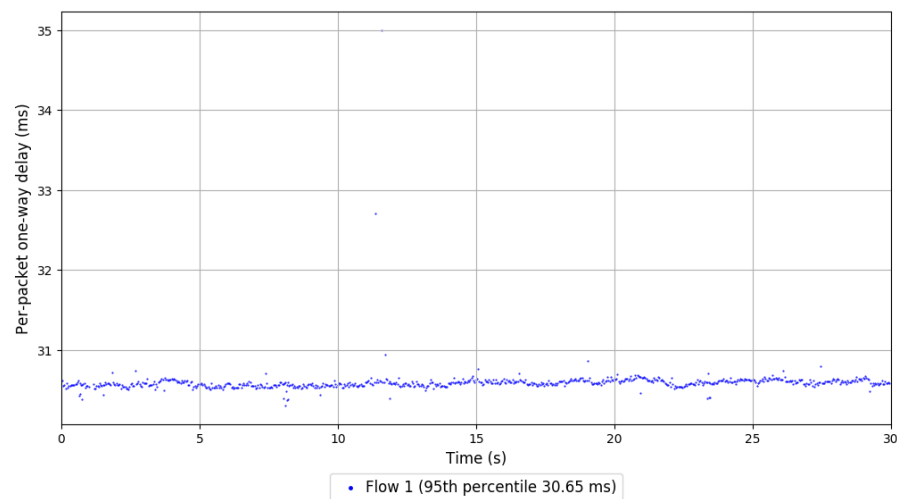
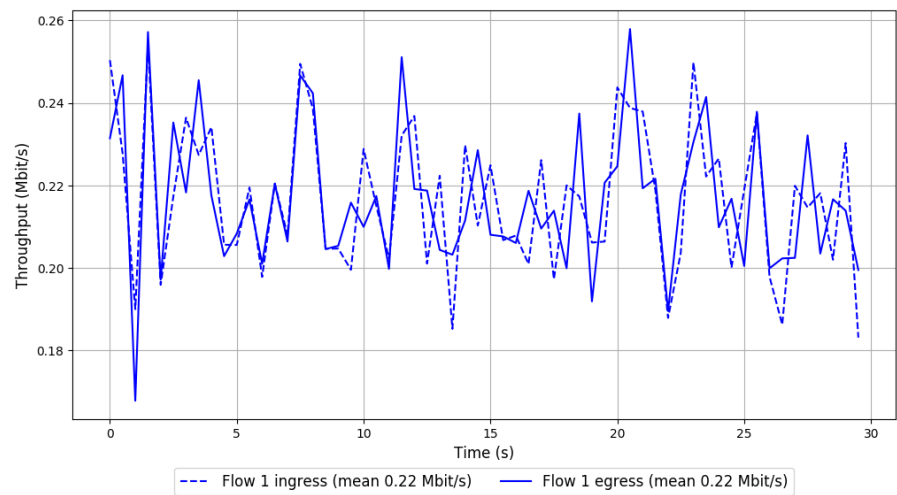


Run 7: Statistics of SCReAM

Start at: 2018-02-13 04:28:14
End at: 2018-02-13 04:28:44
Local clock offset: 0.376 ms
Remote clock offset: -6.424 ms

Below is generated by plot.py at 2018-02-13 06:46:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.653 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.653 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

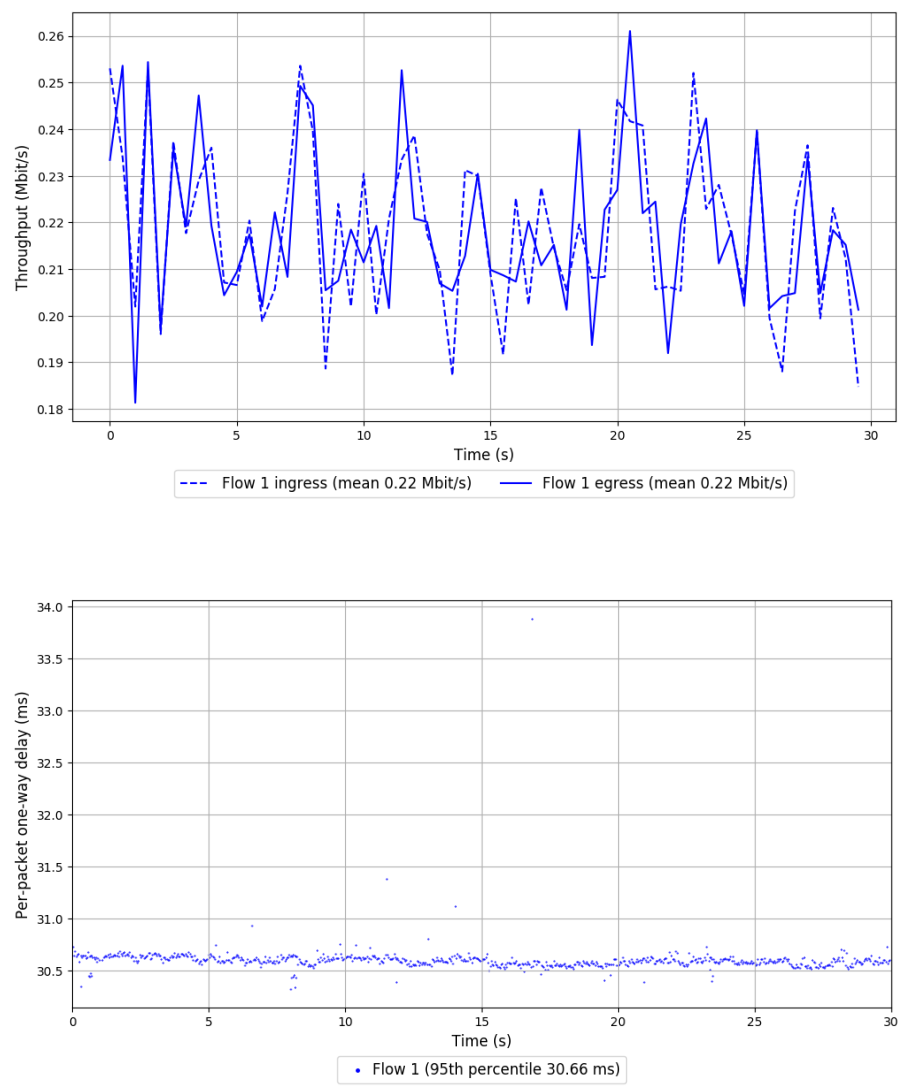


Run 8: Statistics of SCReAM

Start at: 2018-02-13 04:53:37
End at: 2018-02-13 04:54:07
Local clock offset: -0.941 ms
Remote clock offset: -6.702 ms

Below is generated by plot.py at 2018-02-13 06:46:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.663 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.663 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

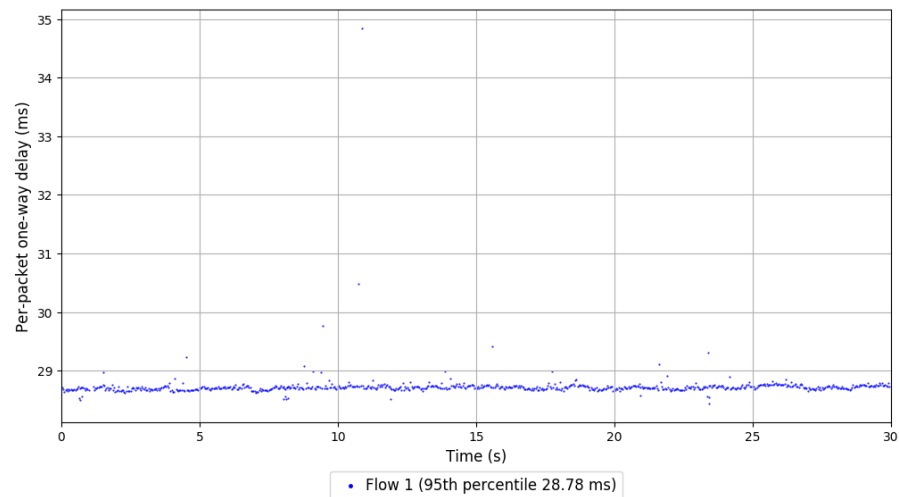
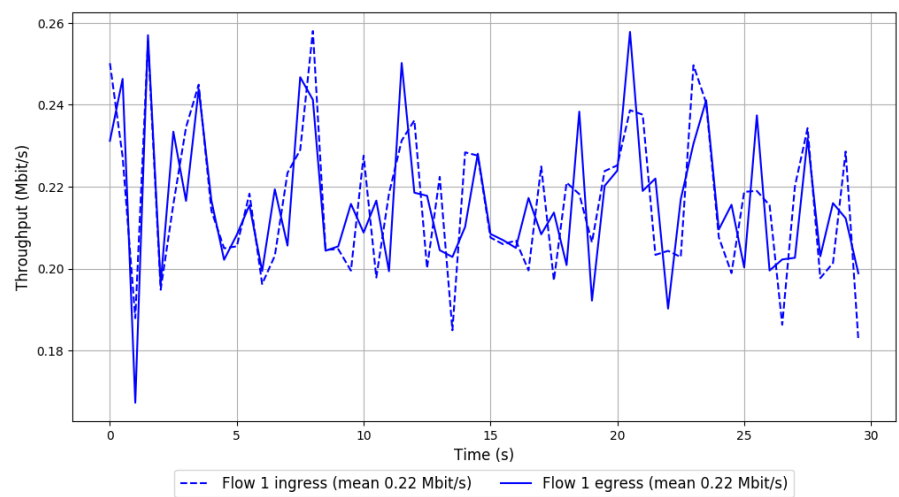


Run 9: Statistics of SCReAM

Start at: 2018-02-13 05:24:10
End at: 2018-02-13 05:24:40
Local clock offset: -1.823 ms
Remote clock offset: -9.819 ms

Below is generated by plot.py at 2018-02-13 06:46:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.784 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.784 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

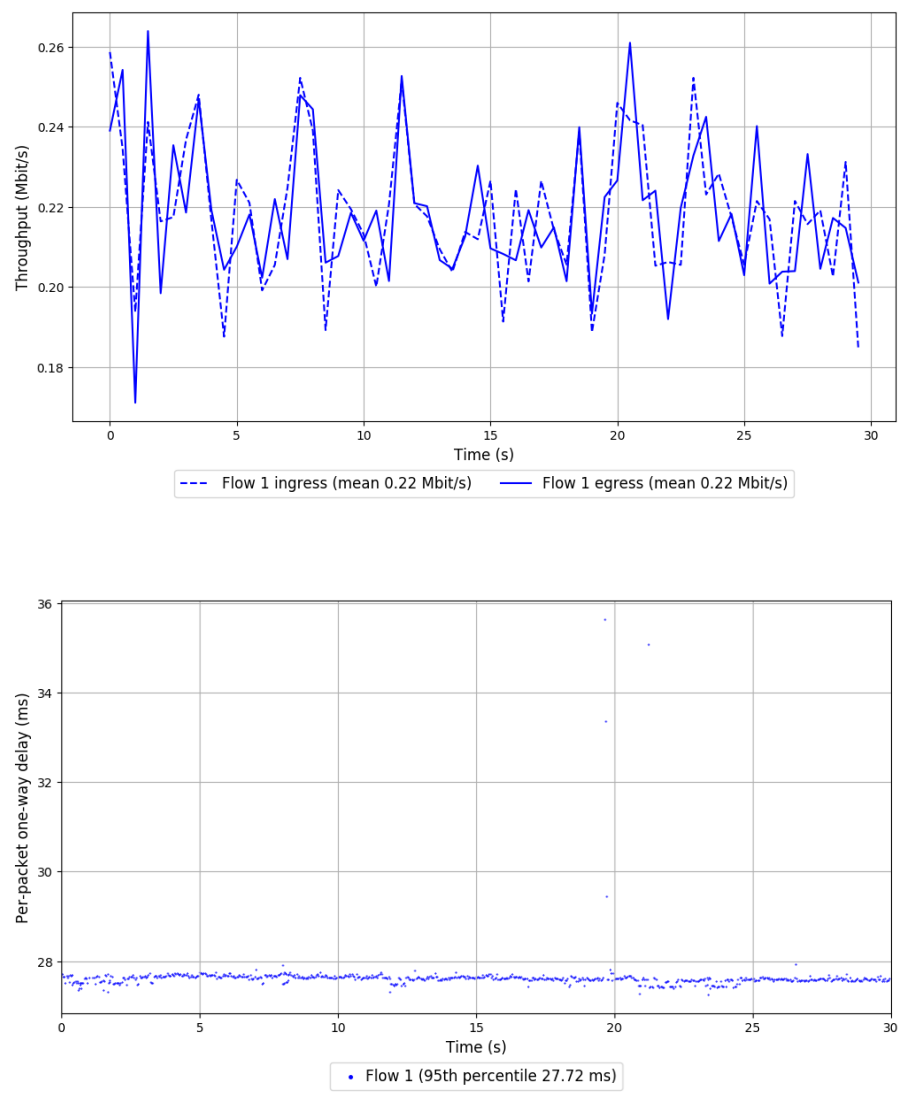


Run 10: Statistics of SReAM

Start at: 2018-02-13 05:50:56
End at: 2018-02-13 05:51:26
Local clock offset: -1.456 ms
Remote clock offset: -9.426 ms

Below is generated by plot.py at 2018-02-13 06:46:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.719 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.719 ms
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

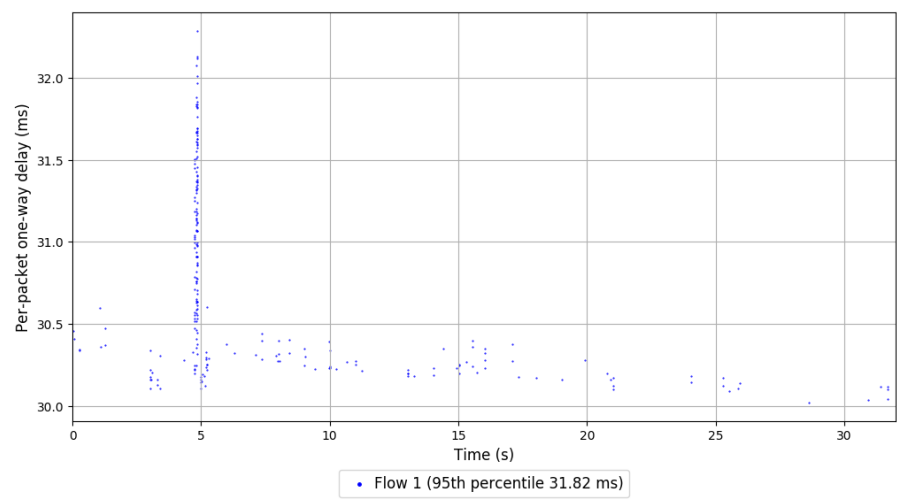
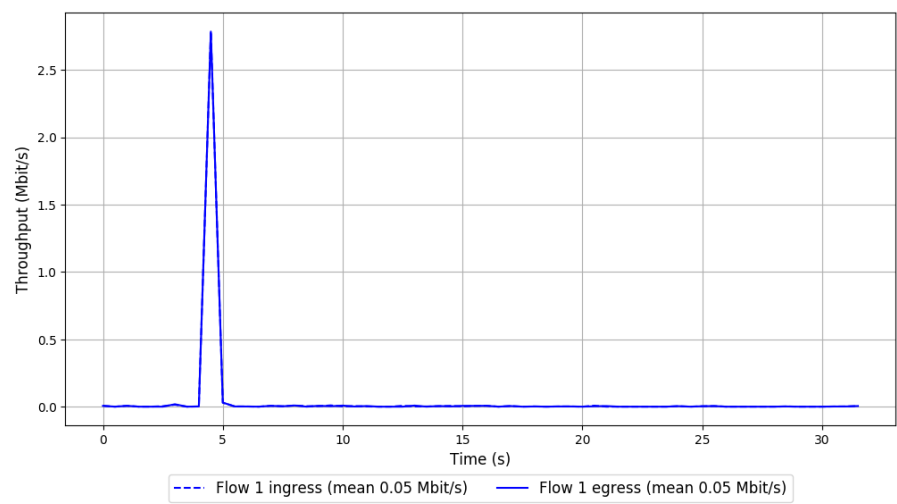


Run 1: Statistics of WebRTC media

Start at: 2018-02-13 01:48:41
End at: 2018-02-13 01:49:11
Local clock offset: 1.993 ms
Remote clock offset: -9.827 ms

Below is generated by plot.py at 2018-02-13 06:46:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 31.817 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 31.817 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

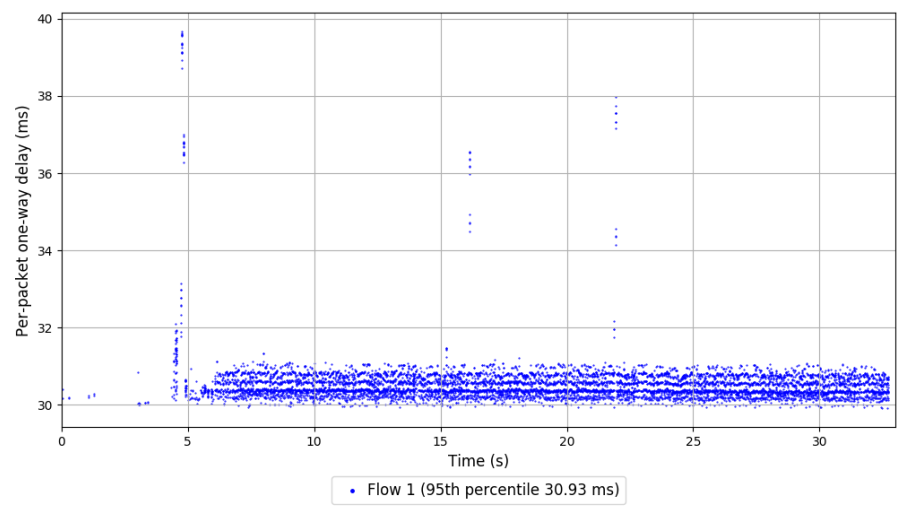
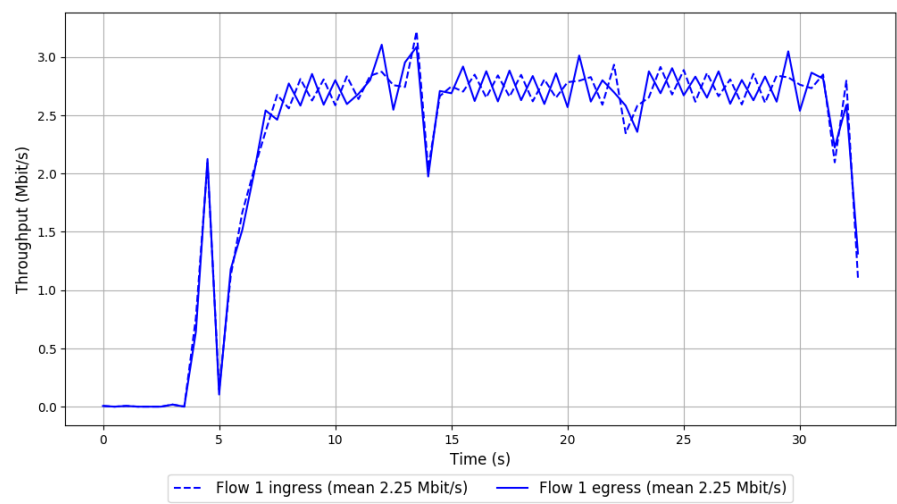


Run 2: Statistics of WebRTC media

Start at: 2018-02-13 02:14:24
End at: 2018-02-13 02:14:54
Local clock offset: 0.494 ms
Remote clock offset: -4.627 ms

Below is generated by plot.py at 2018-02-13 06:46:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 30.934 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 30.934 ms
Loss rate: 0.05%

Run 2: Report of WebRTC media — Data Link

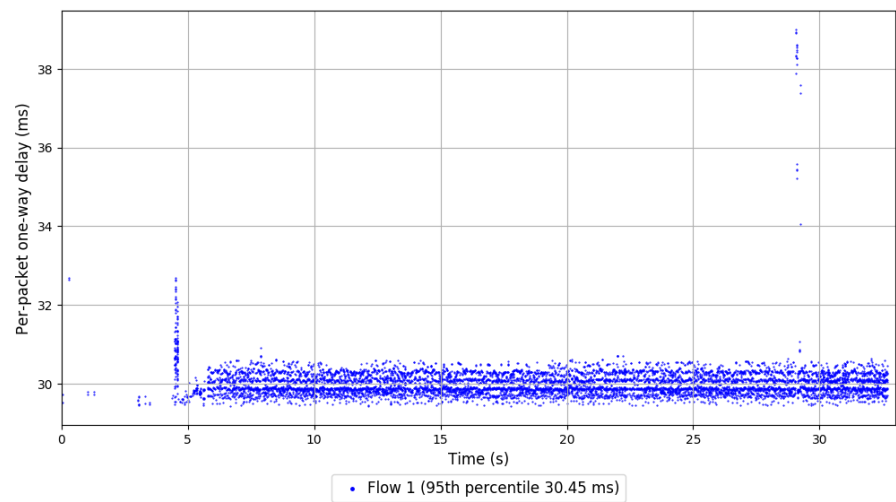
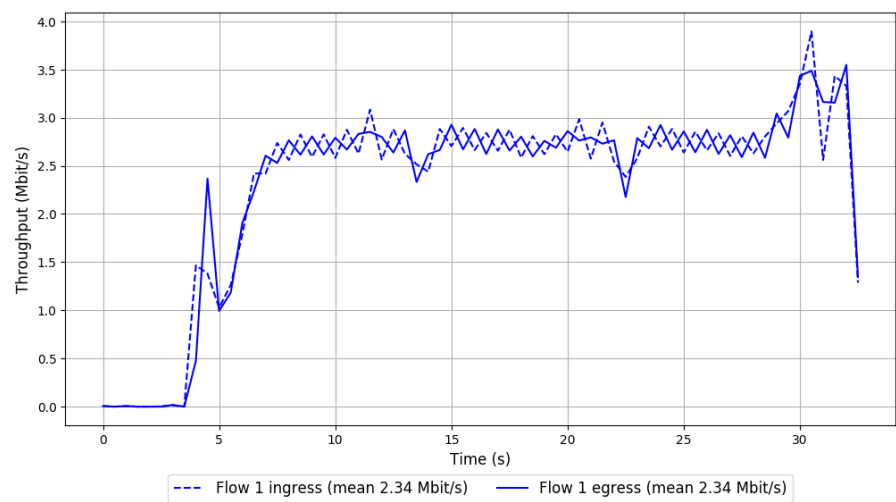


Run 3: Statistics of WebRTC media

Start at: 2018-02-13 02:39:35
End at: 2018-02-13 02:40:05
Local clock offset: 0.38 ms
Remote clock offset: -4.483 ms

Below is generated by plot.py at 2018-02-13 06:46:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 30.447 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 30.447 ms
Loss rate: 0.08%

Run 3: Report of WebRTC media — Data Link

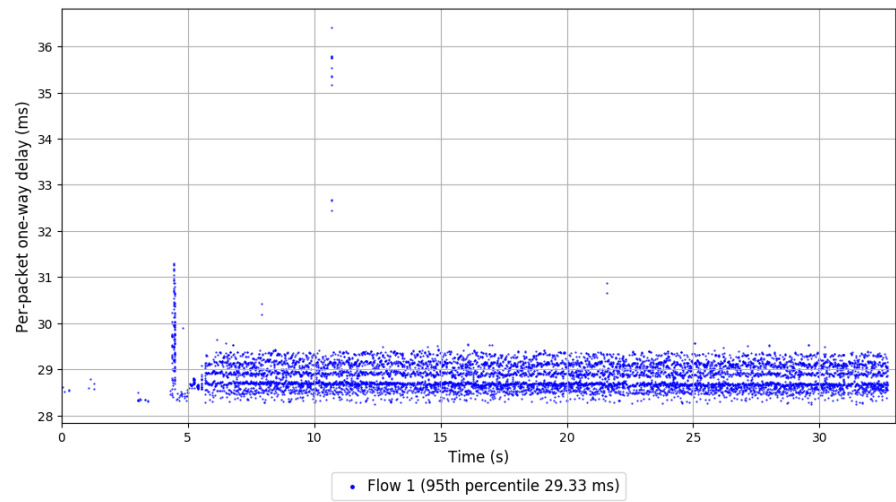
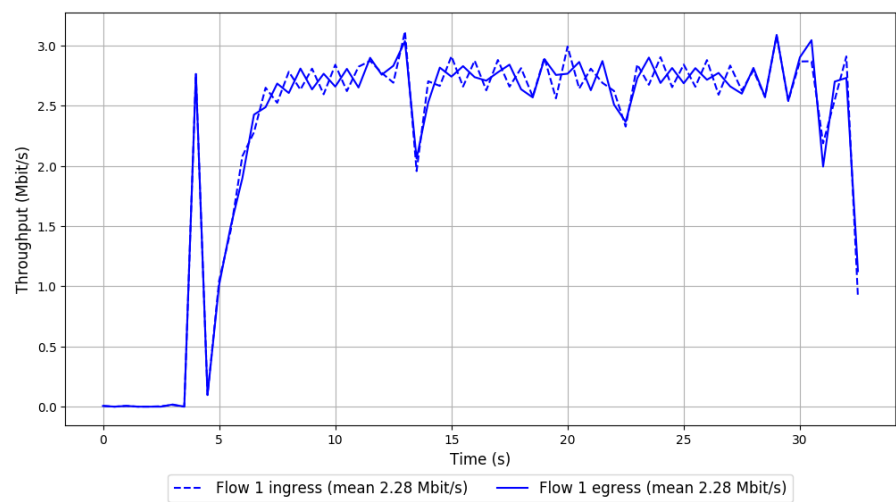


Run 4: Statistics of WebRTC media

Start at: 2018-02-13 03:04:09
End at: 2018-02-13 03:04:39
Local clock offset: 0.087 ms
Remote clock offset: -5.451 ms

Below is generated by plot.py at 2018-02-13 06:46:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 29.329 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 29.329 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

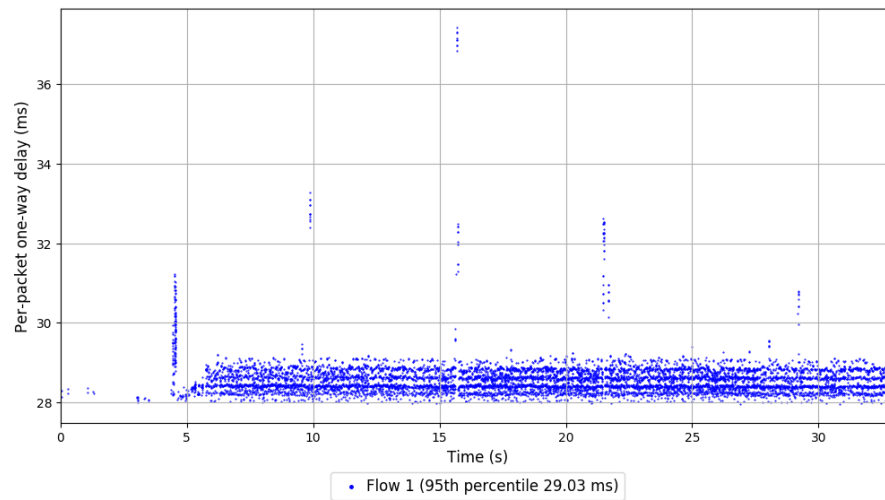
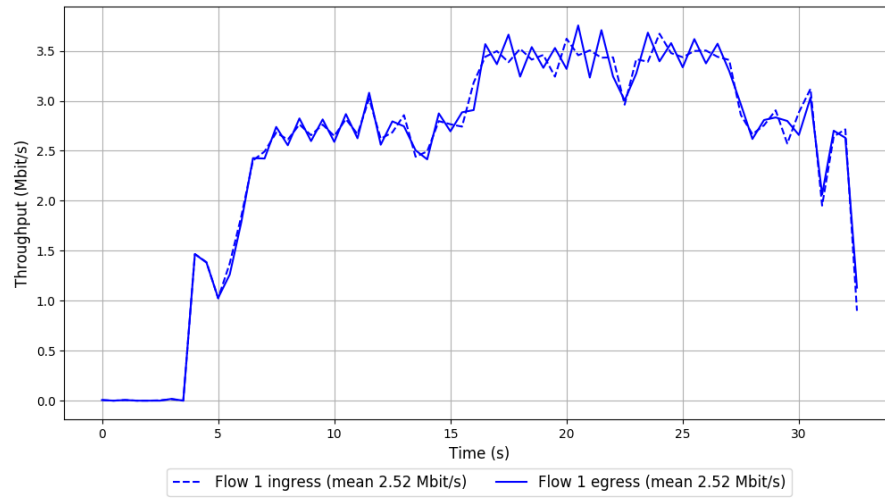


Run 5: Statistics of WebRTC media

Start at: 2018-02-13 03:29:11
End at: 2018-02-13 03:29:41
Local clock offset: 0.209 ms
Remote clock offset: -4.383 ms

Below is generated by plot.py at 2018-02-13 06:46:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.52 Mbit/s
95th percentile per-packet one-way delay: 29.028 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 2.52 Mbit/s
95th percentile per-packet one-way delay: 29.028 ms
Loss rate: 0.05%

Run 5: Report of WebRTC media — Data Link

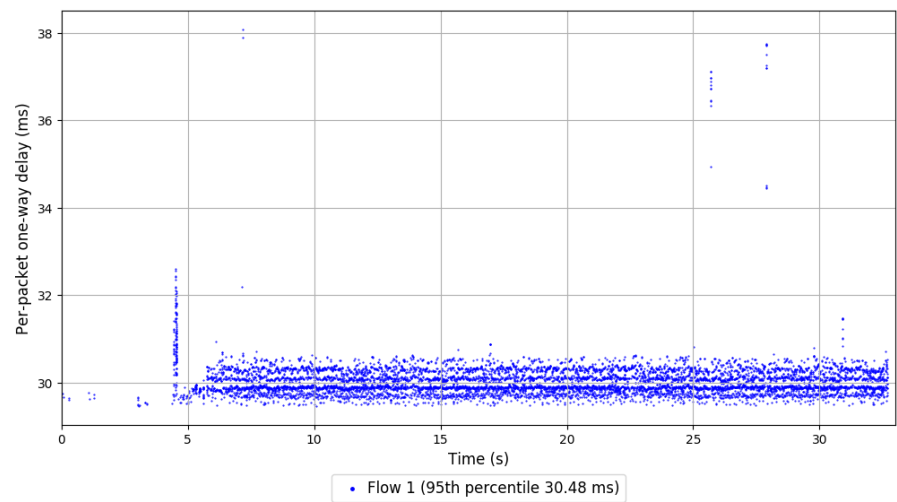
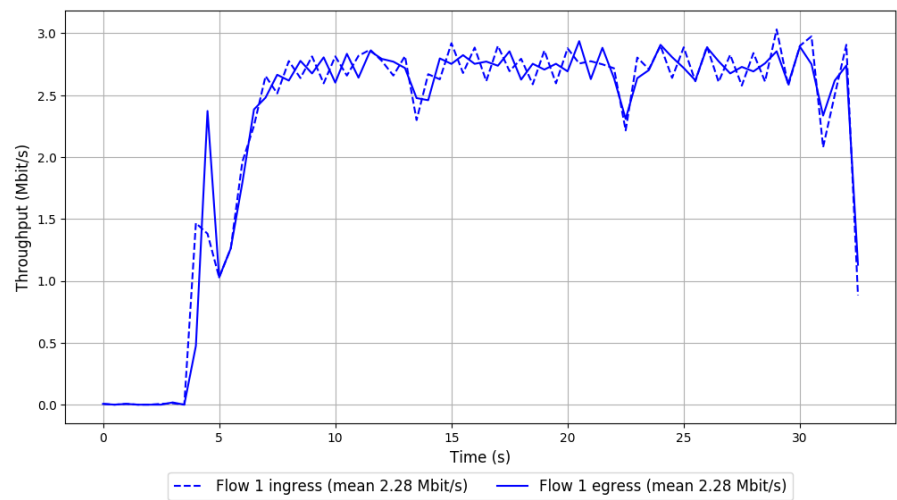


Run 6: Statistics of WebRTC media

Start at: 2018-02-13 03:56:05
End at: 2018-02-13 03:56:35
Local clock offset: 0.826 ms
Remote clock offset: -4.047 ms

Below is generated by plot.py at 2018-02-13 06:46:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 30.475 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 30.475 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-13 04:25:09

End at: 2018-02-13 04:25:39

Local clock offset: 0.396 ms

Remote clock offset: -6.23 ms

Below is generated by plot.py at 2018-02-13 06:46:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 30.557 ms

Loss rate: 0.00%

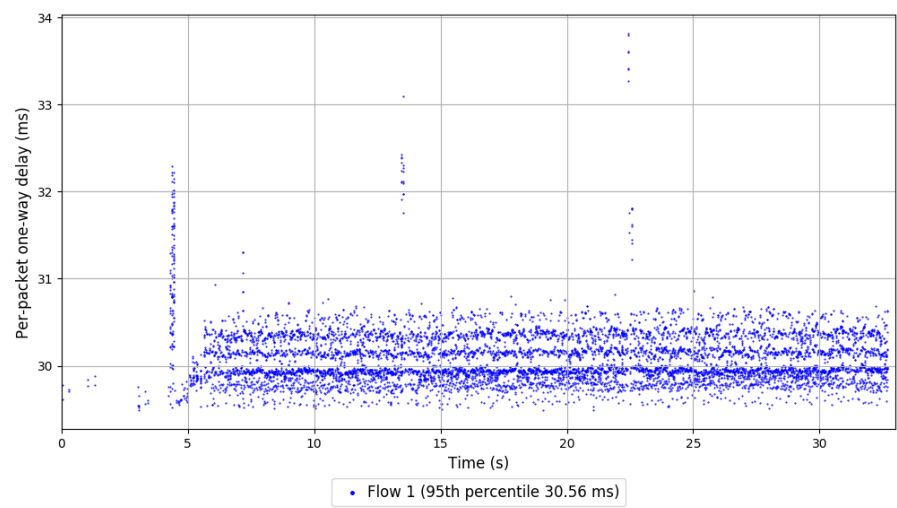
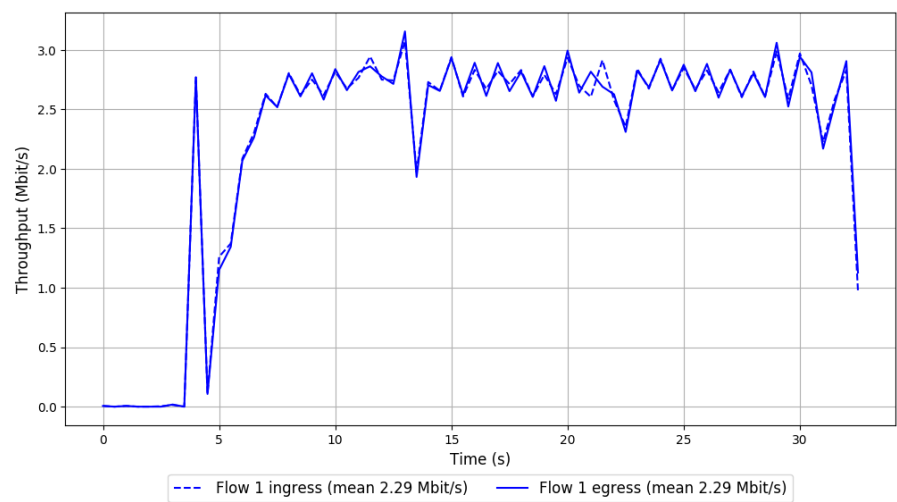
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 30.557 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

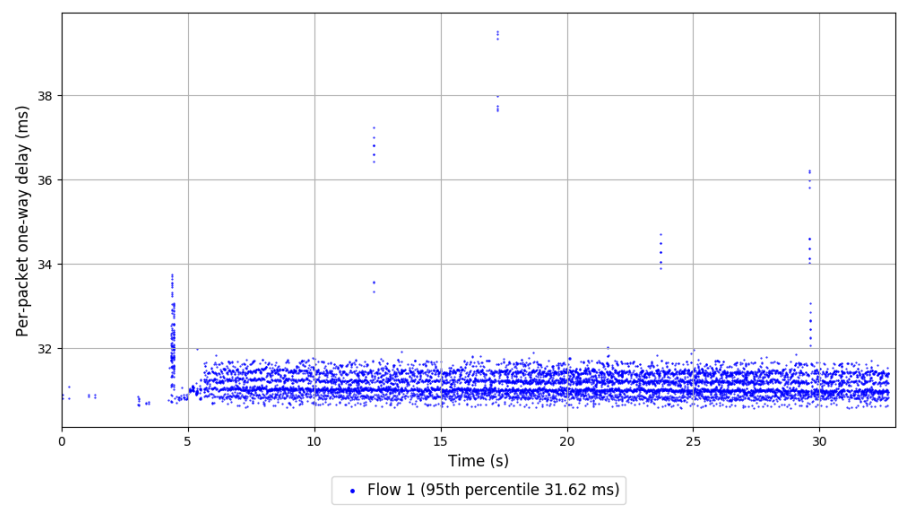
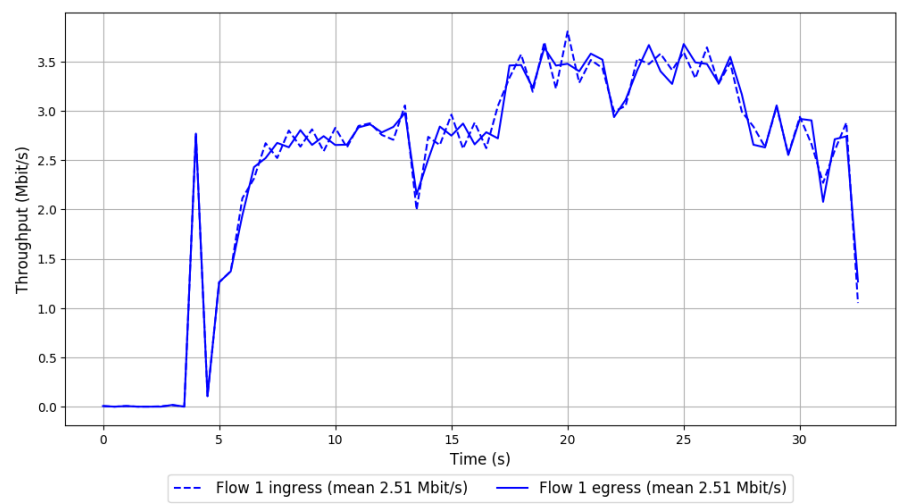


Run 8: Statistics of WebRTC media

Start at: 2018-02-13 04:50:59
End at: 2018-02-13 04:51:29
Local clock offset: -0.596 ms
Remote clock offset: -6.249 ms

Below is generated by plot.py at 2018-02-13 06:46:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.51 Mbit/s
95th percentile per-packet one-way delay: 31.623 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 2.51 Mbit/s
95th percentile per-packet one-way delay: 31.623 ms
Loss rate: 0.06%

Run 8: Report of WebRTC media — Data Link

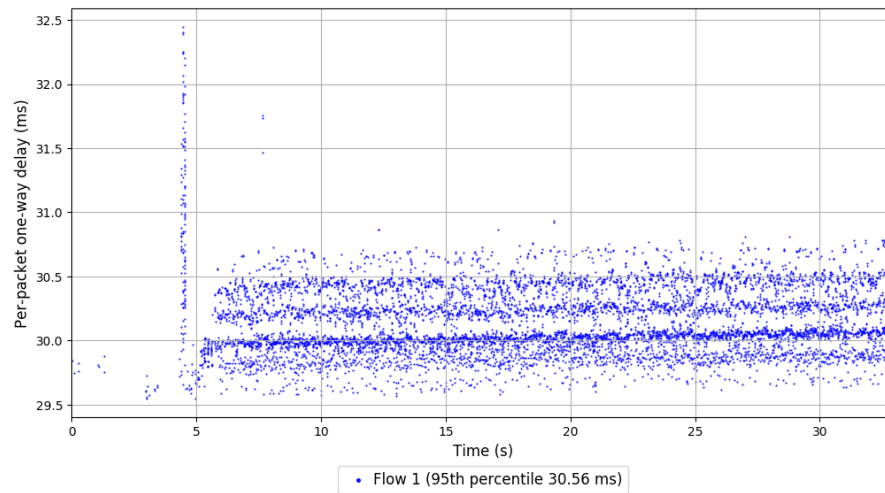
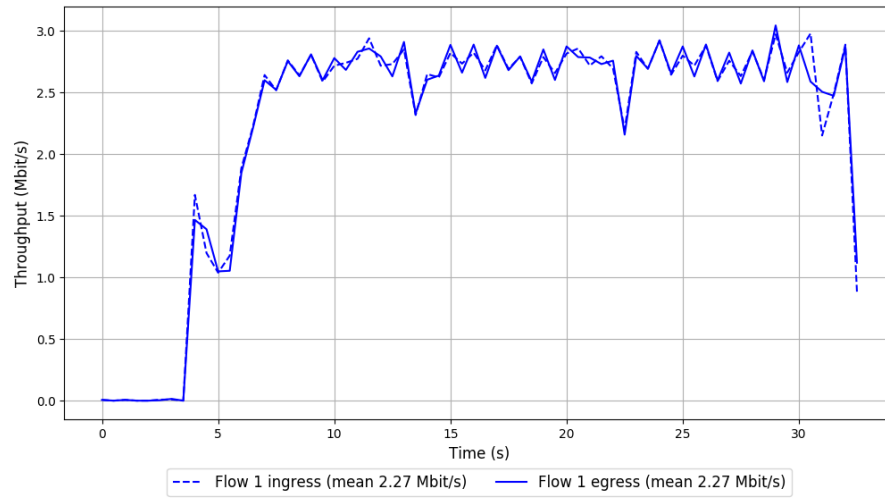


Run 9: Statistics of WebRTC media

Start at: 2018-02-13 05:20:37
End at: 2018-02-13 05:21:07
Local clock offset: -2.037 ms
Remote clock offset: -7.607 ms

Below is generated by plot.py at 2018-02-13 06:46:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 30.561 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 30.561 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-13 05:48:14

End at: 2018-02-13 05:48:44

Local clock offset: -1.444 ms

Remote clock offset: -9.987 ms

Below is generated by plot.py at 2018-02-13 06:46:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 29.038 ms

Loss rate: 0.00%

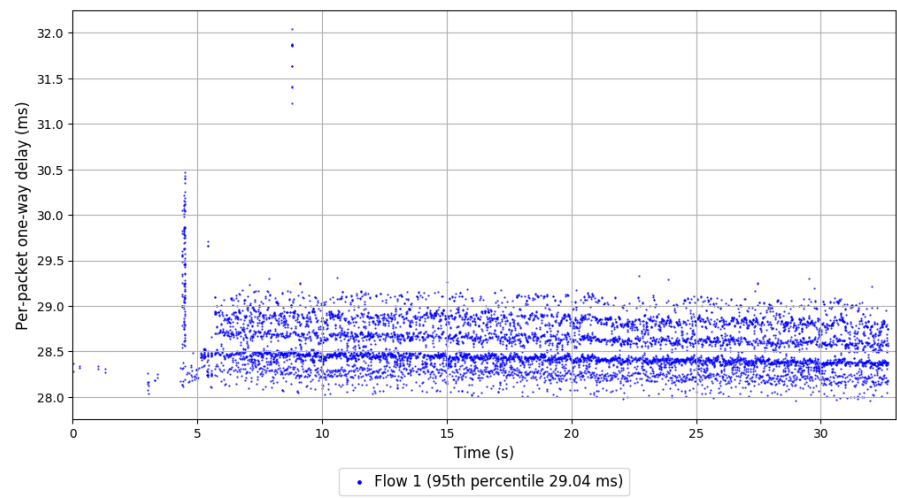
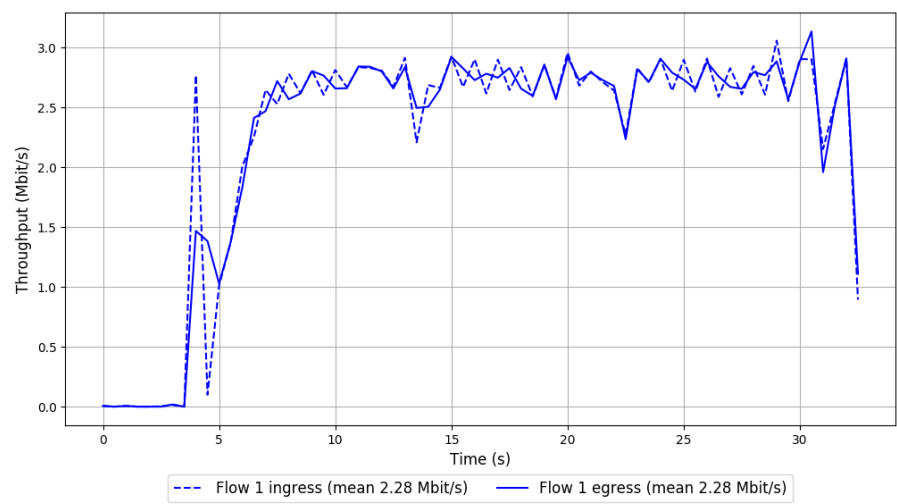
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 29.038 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

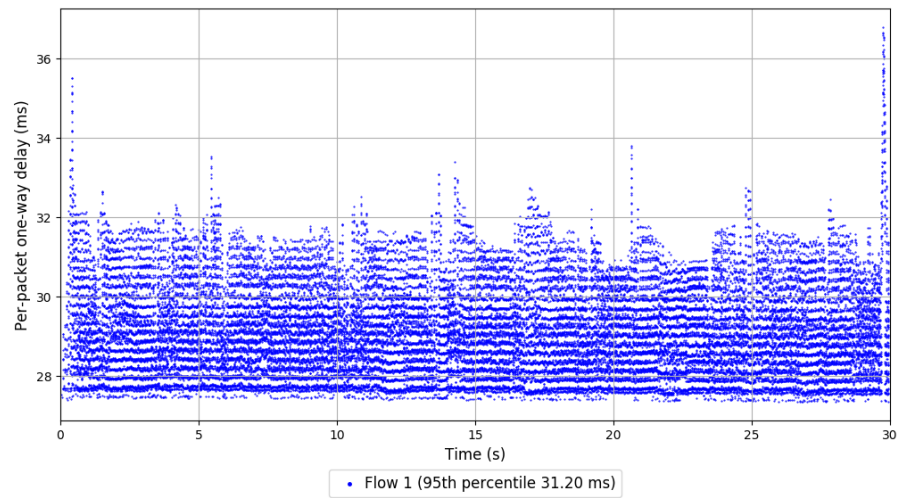
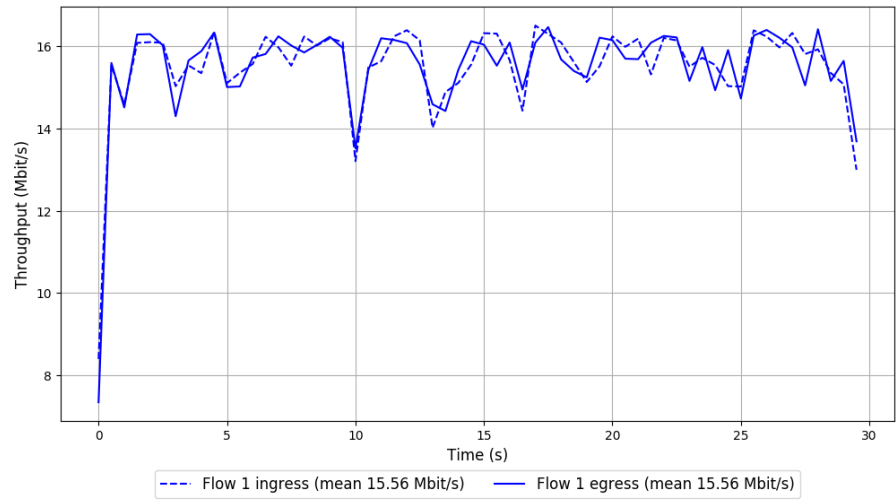


Run 1: Statistics of Sprout

Start at: 2018-02-13 01:58:35
End at: 2018-02-13 01:59:05
Local clock offset: 1.443 ms
Remote clock offset: -8.859 ms

Below is generated by plot.py at 2018-02-13 06:46:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.56 Mbit/s
95th percentile per-packet one-way delay: 31.198 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.56 Mbit/s
95th percentile per-packet one-way delay: 31.198 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

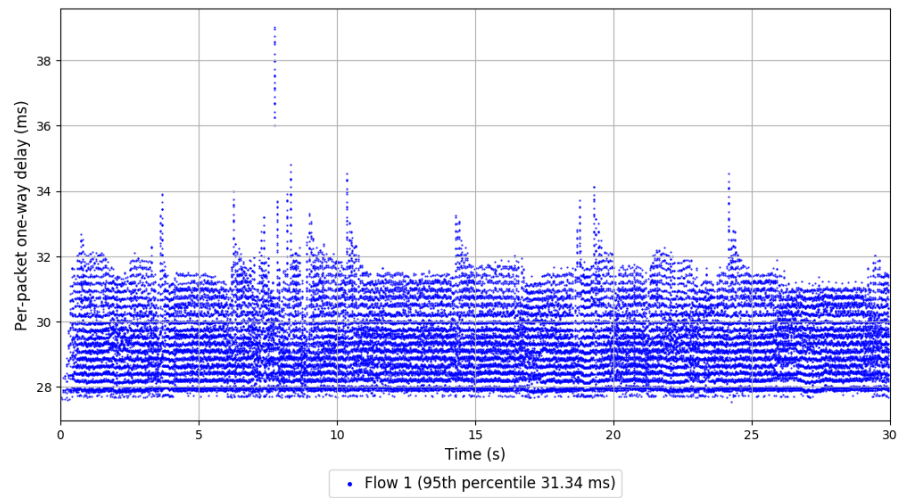
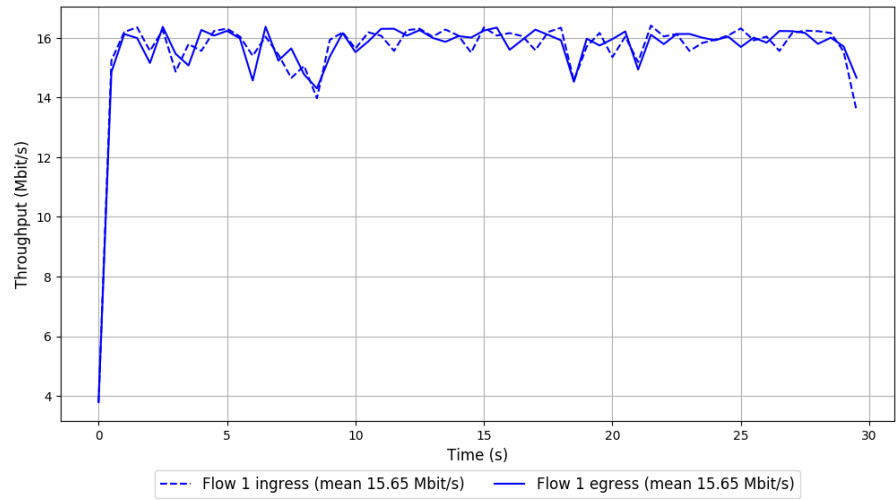


Run 2: Statistics of Sprout

Start at: 2018-02-13 02:23:59
End at: 2018-02-13 02:24:29
Local clock offset: 0.408 ms
Remote clock offset: -6.613 ms

Below is generated by plot.py at 2018-02-13 06:46:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.65 Mbit/s
95th percentile per-packet one-way delay: 31.341 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.65 Mbit/s
95th percentile per-packet one-way delay: 31.341 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

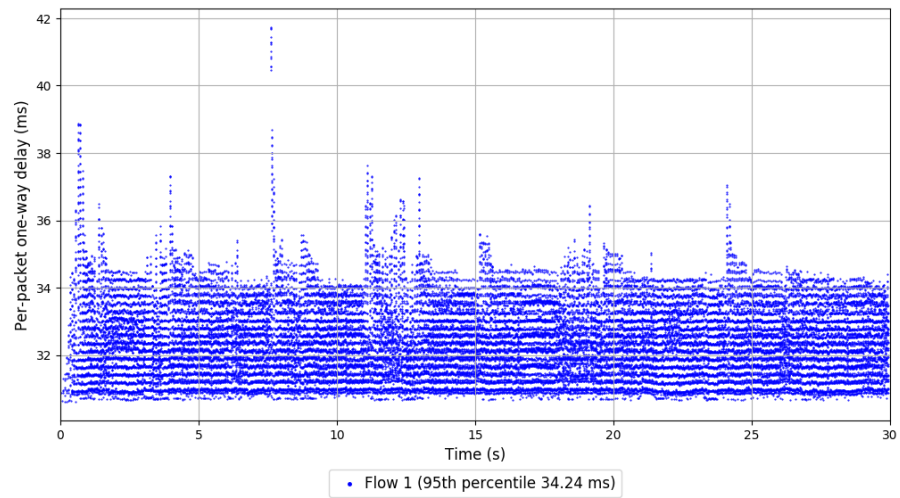
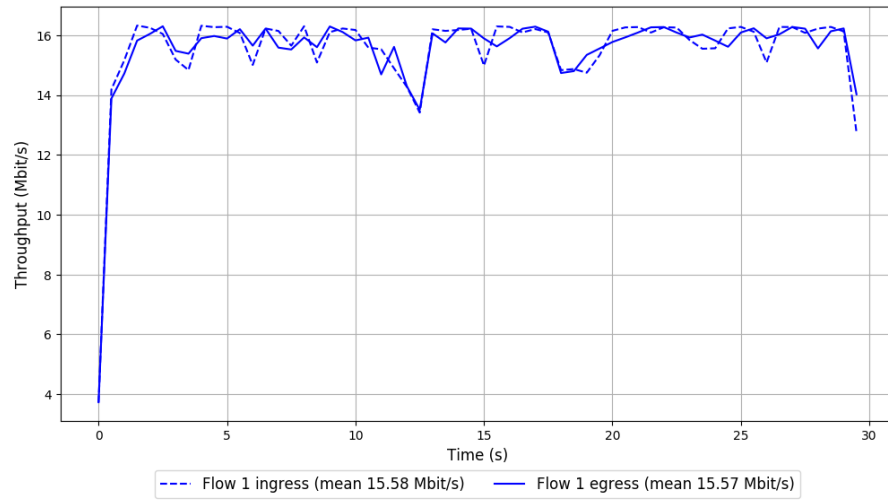


Run 3: Statistics of Sprout

Start at: 2018-02-13 02:48:57
End at: 2018-02-13 02:49:27
Local clock offset: 0.232 ms
Remote clock offset: -4.183 ms

Below is generated by plot.py at 2018-02-13 06:46:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.57 Mbit/s
95th percentile per-packet one-way delay: 34.245 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 15.57 Mbit/s
95th percentile per-packet one-way delay: 34.245 ms
Loss rate: 0.04%

Run 3: Report of Sprout — Data Link

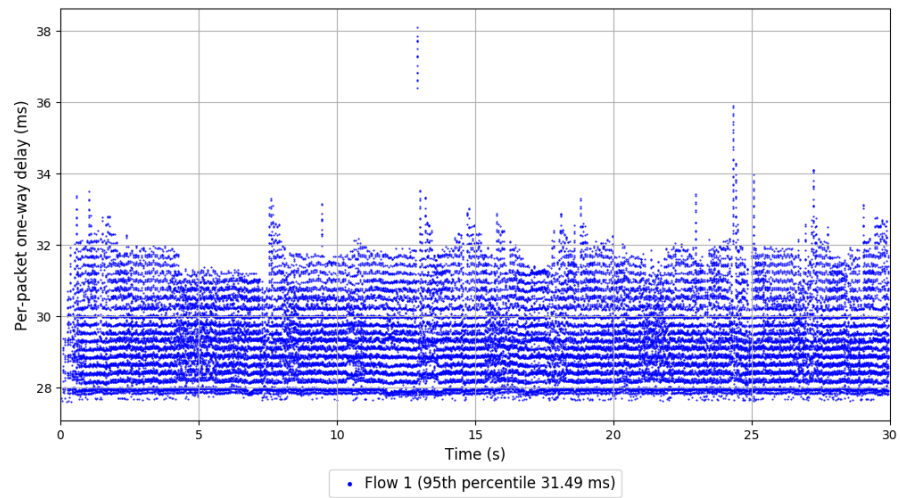
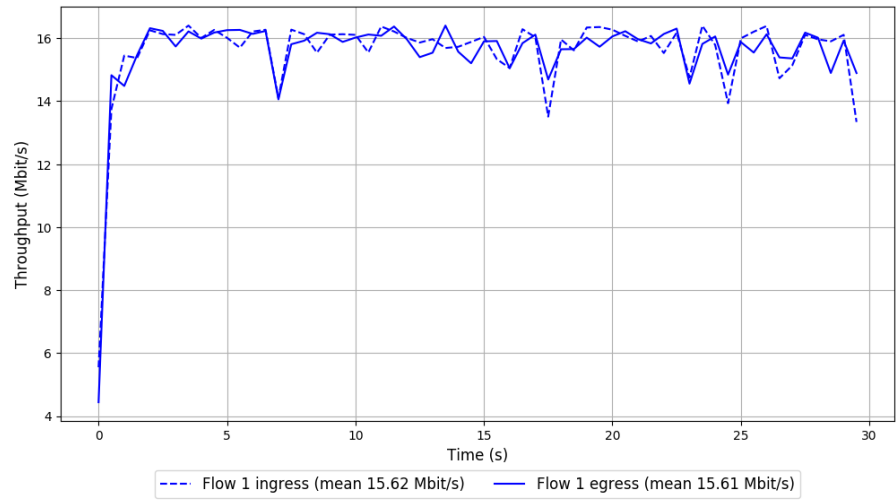


Run 4: Statistics of Sprout

Start at: 2018-02-13 03:13:42
End at: 2018-02-13 03:14:12
Local clock offset: 0.265 ms
Remote clock offset: -4.996 ms

Below is generated by plot.py at 2018-02-13 06:46:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.61 Mbit/s
95th percentile per-packet one-way delay: 31.493 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 15.61 Mbit/s
95th percentile per-packet one-way delay: 31.493 ms
Loss rate: 0.05%

Run 4: Report of Sprout — Data Link

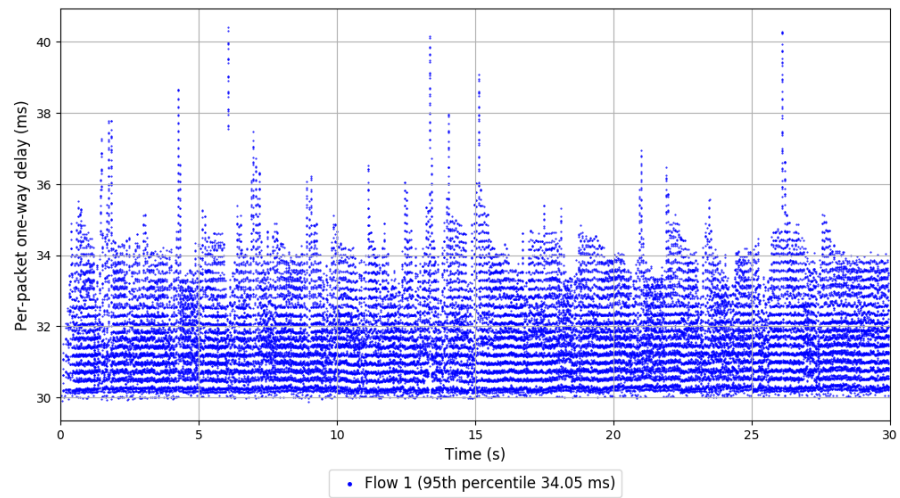
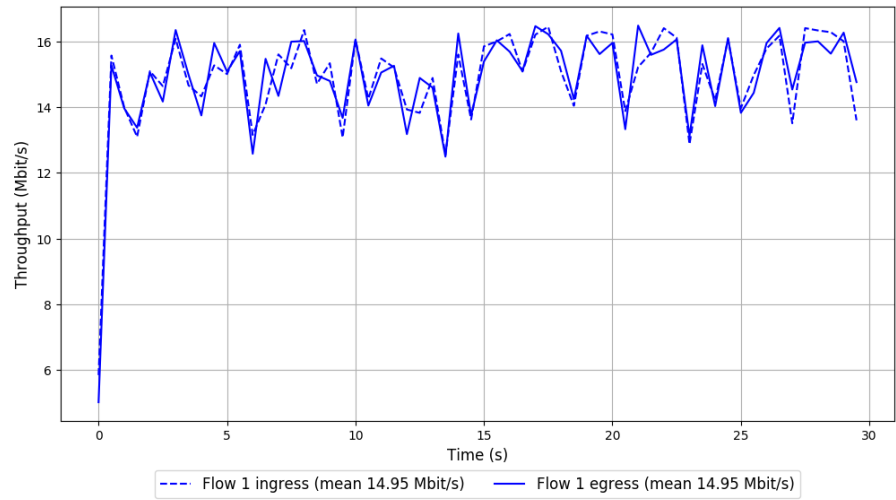


Run 5: Statistics of Sprout

Start at: 2018-02-13 03:39:11
End at: 2018-02-13 03:39:41
Local clock offset: 0.204 ms
Remote clock offset: -3.369 ms

Below is generated by plot.py at 2018-02-13 06:46:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 14.95 Mbit/s
95th percentile per-packet one-way delay: 34.047 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 14.95 Mbit/s
95th percentile per-packet one-way delay: 34.047 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

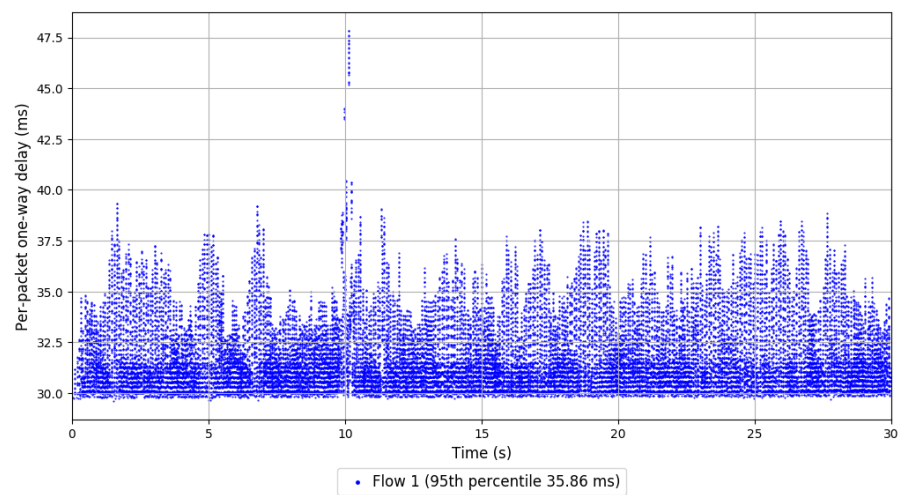
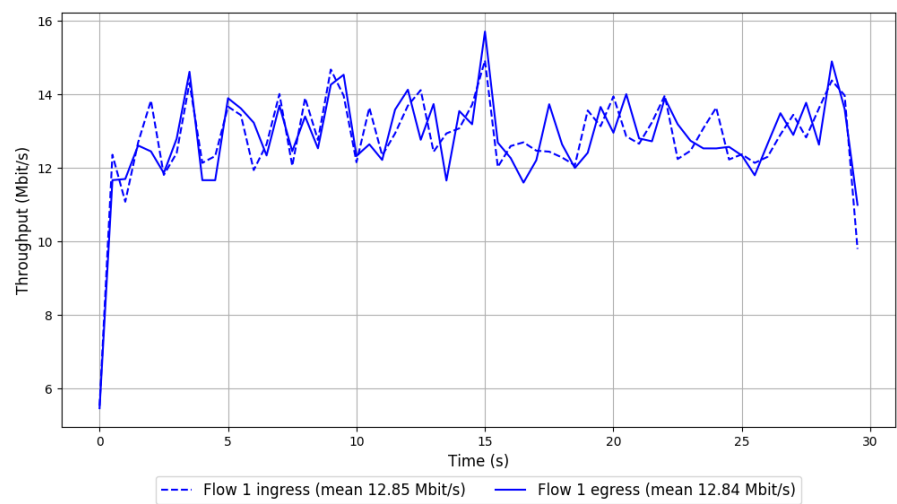


Run 6: Statistics of Sprout

Start at: 2018-02-13 04:07:14
End at: 2018-02-13 04:07:44
Local clock offset: 0.91 ms
Remote clock offset: -4.494 ms

Below is generated by plot.py at 2018-02-13 06:46:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.84 Mbit/s
95th percentile per-packet one-way delay: 35.857 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 12.84 Mbit/s
95th percentile per-packet one-way delay: 35.857 ms
Loss rate: 0.09%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-13 04:35:48

End at: 2018-02-13 04:36:18

Local clock offset: 0.23 ms

Remote clock offset: -7.18 ms

Below is generated by plot.py at 2018-02-13 06:46:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.46 Mbit/s

95th percentile per-packet one-way delay: 33.781 ms

Loss rate: 0.03%

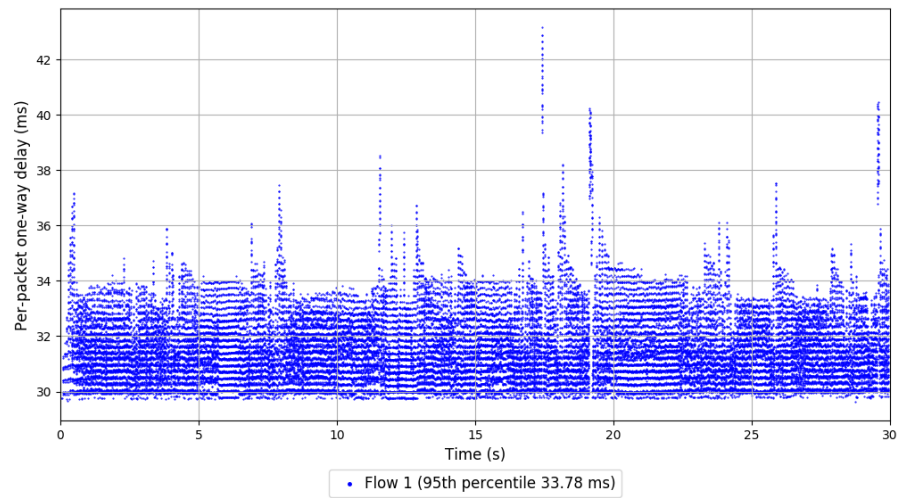
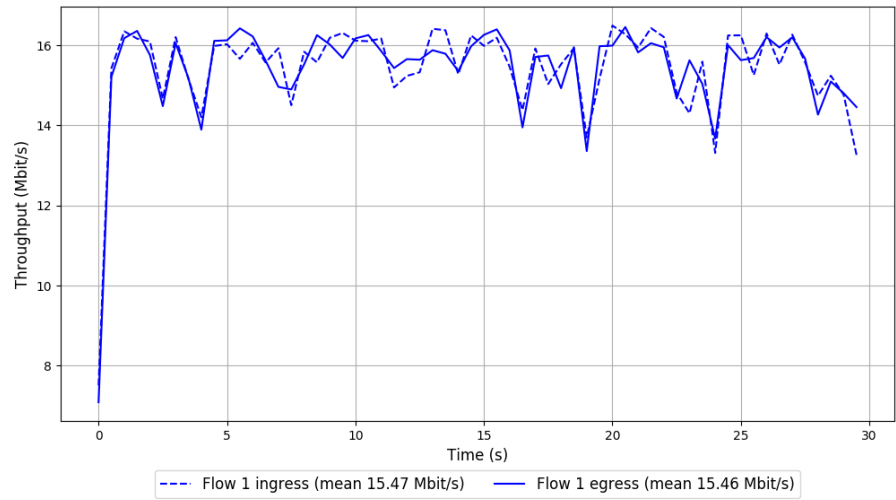
-- Flow 1:

Average throughput: 15.46 Mbit/s

95th percentile per-packet one-way delay: 33.781 ms

Loss rate: 0.03%

Run 7: Report of Sprout — Data Link

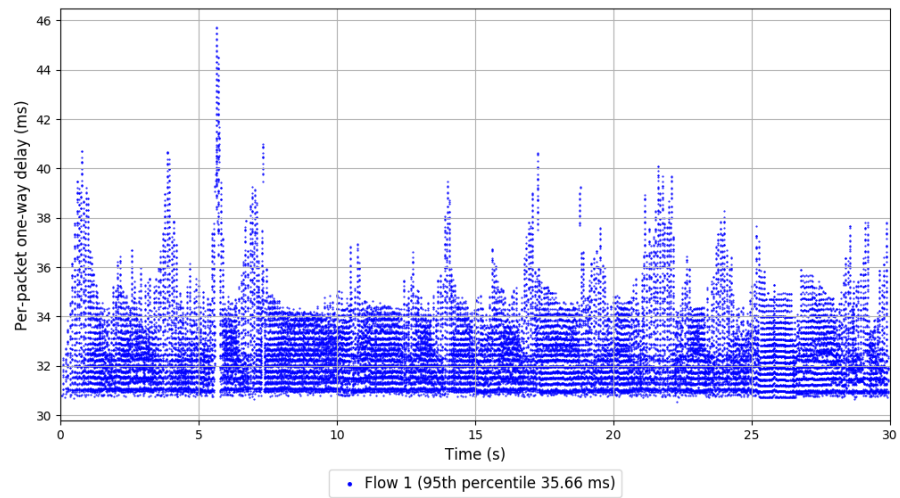
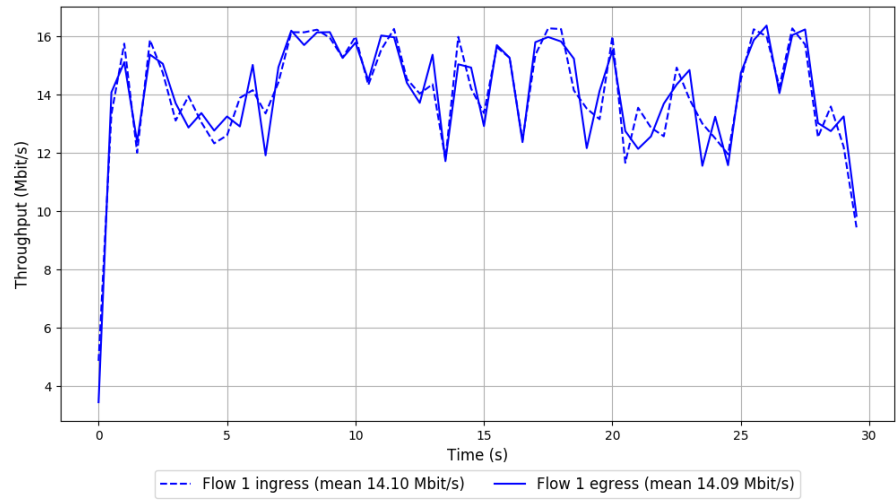


Run 8: Statistics of Sprout

Start at: 2018-02-13 05:00:58
End at: 2018-02-13 05:01:28
Local clock offset: -1.377 ms
Remote clock offset: -6.247 ms

Below is generated by plot.py at 2018-02-13 06:46:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 14.09 Mbit/s
95th percentile per-packet one-way delay: 35.659 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 14.09 Mbit/s
95th percentile per-packet one-way delay: 35.659 ms
Loss rate: 0.05%

Run 8: Report of Sprout — Data Link

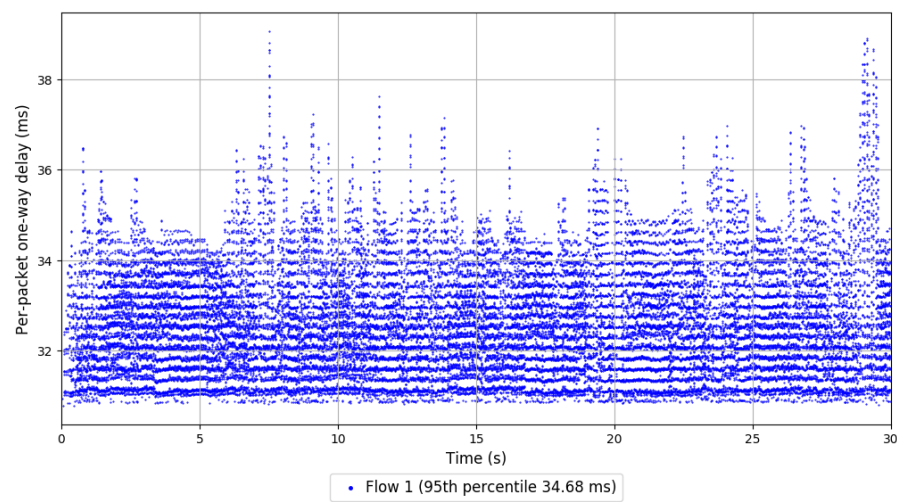
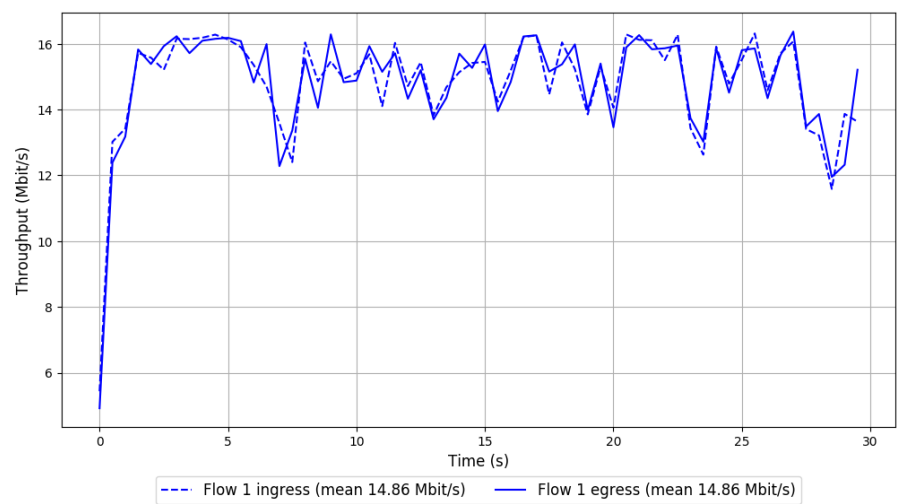


Run 9: Statistics of Sprout

Start at: 2018-02-13 05:32:03
End at: 2018-02-13 05:32:33
Local clock offset: -1.403 ms
Remote clock offset: -7.695 ms

Below is generated by plot.py at 2018-02-13 06:46:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 14.86 Mbit/s
95th percentile per-packet one-way delay: 34.680 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 14.86 Mbit/s
95th percentile per-packet one-way delay: 34.680 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

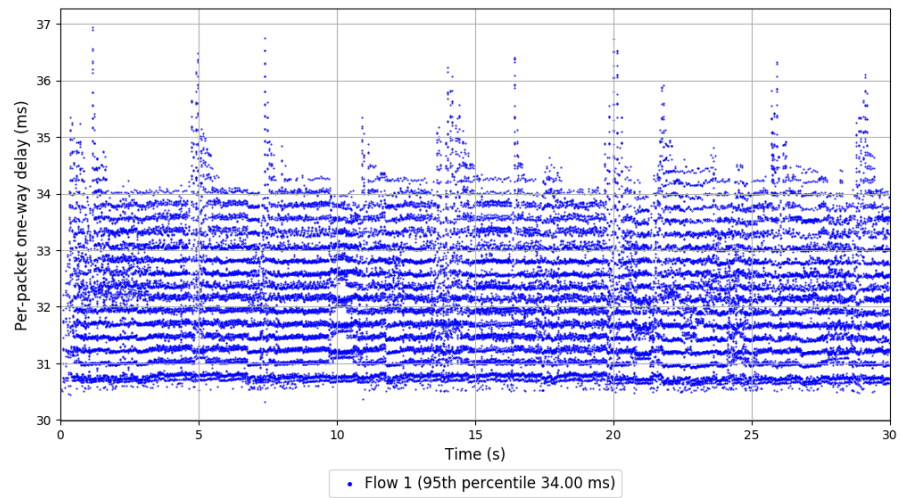
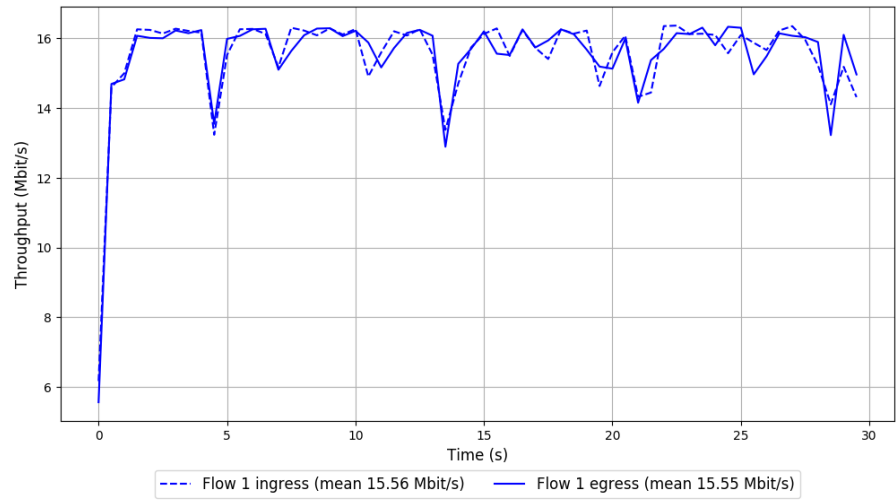


Run 10: Statistics of Sprout

Start at: 2018-02-13 05:57:51
End at: 2018-02-13 05:58:21
Local clock offset: -1.324 ms
Remote clock offset: -6.167 ms

Below is generated by plot.py at 2018-02-13 06:46:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.55 Mbit/s
95th percentile per-packet one-way delay: 34.001 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 15.55 Mbit/s
95th percentile per-packet one-way delay: 34.001 ms
Loss rate: 0.06%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-02-13 02:07:01

End at: 2018-02-13 02:07:31

Local clock offset: 0.869 ms

Remote clock offset: -7.713 ms

Below is generated by plot.py at 2018-02-13 06:48:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.96 Mbit/s

95th percentile per-packet one-way delay: 38.723 ms

Loss rate: 0.02%

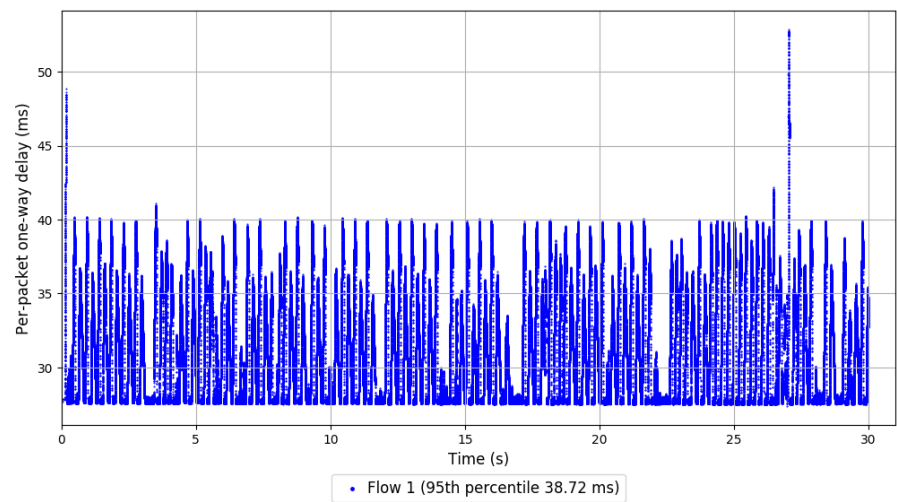
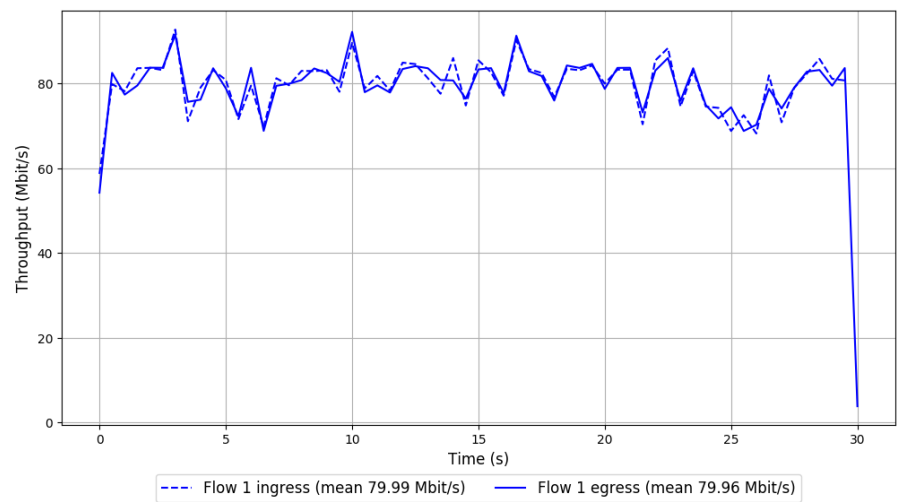
-- Flow 1:

Average throughput: 79.96 Mbit/s

95th percentile per-packet one-way delay: 38.723 ms

Loss rate: 0.02%

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

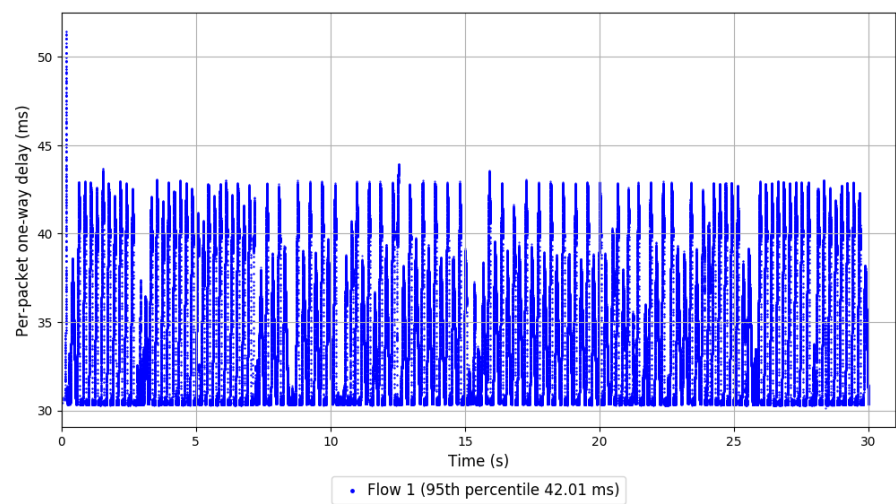
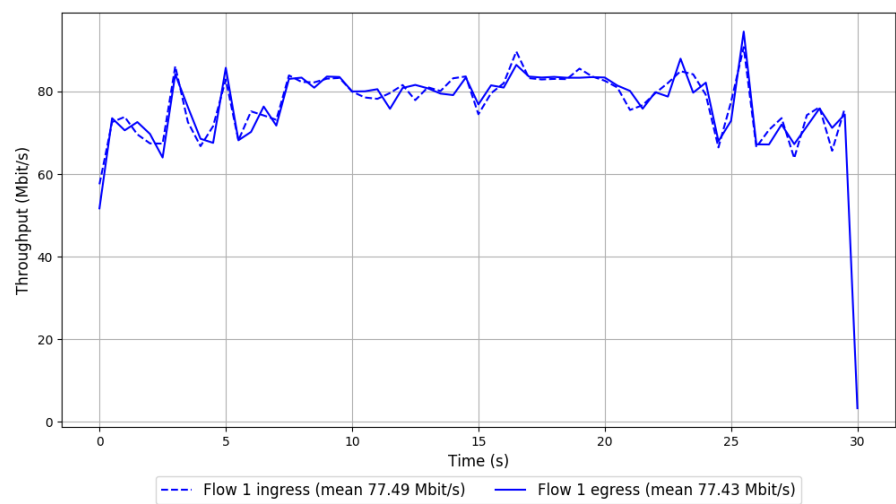


Run 2: Statistics of TaoVA-100x

Start at: 2018-02-13 02:32:21
End at: 2018-02-13 02:32:51
Local clock offset: 0.381 ms
Remote clock offset: -4.655 ms

Below is generated by plot.py at 2018-02-13 06:48:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.43 Mbit/s
95th percentile per-packet one-way delay: 42.006 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 77.43 Mbit/s
95th percentile per-packet one-way delay: 42.006 ms
Loss rate: 0.09%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-13 02:57:09

End at: 2018-02-13 02:57:40

Local clock offset: 0.168 ms

Remote clock offset: -3.677 ms

Below is generated by plot.py at 2018-02-13 06:48:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.65 Mbit/s

95th percentile per-packet one-way delay: 42.638 ms

Loss rate: 0.07%

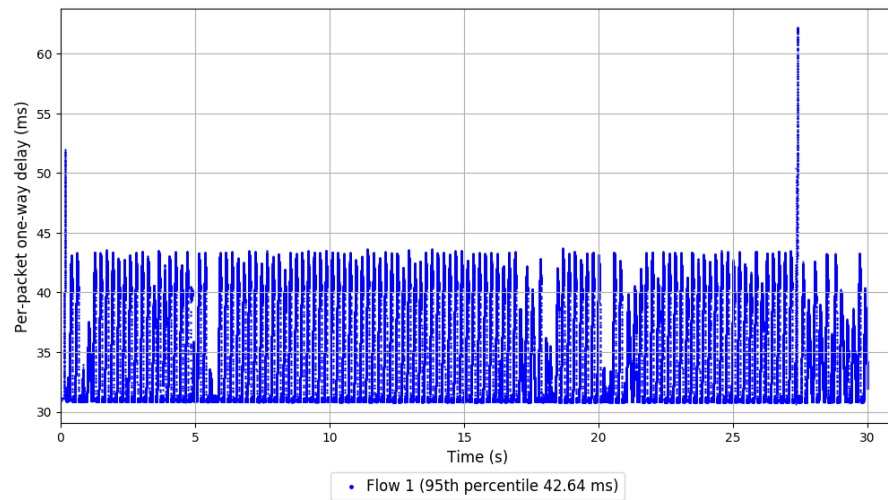
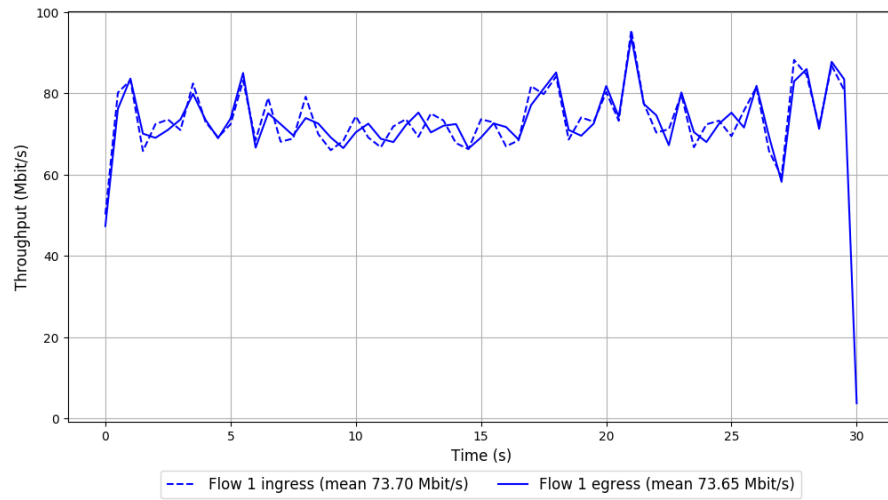
-- Flow 1:

Average throughput: 73.65 Mbit/s

95th percentile per-packet one-way delay: 42.638 ms

Loss rate: 0.07%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-13 03:21:58

End at: 2018-02-13 03:22:28

Local clock offset: 0.319 ms

Remote clock offset: -4.614 ms

Below is generated by plot.py at 2018-02-13 06:48:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.53 Mbit/s

95th percentile per-packet one-way delay: 39.756 ms

Loss rate: 0.06%

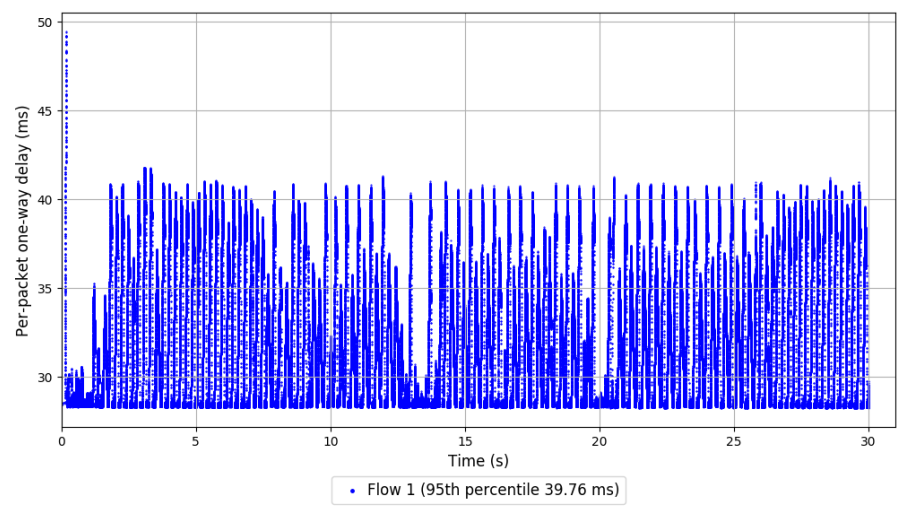
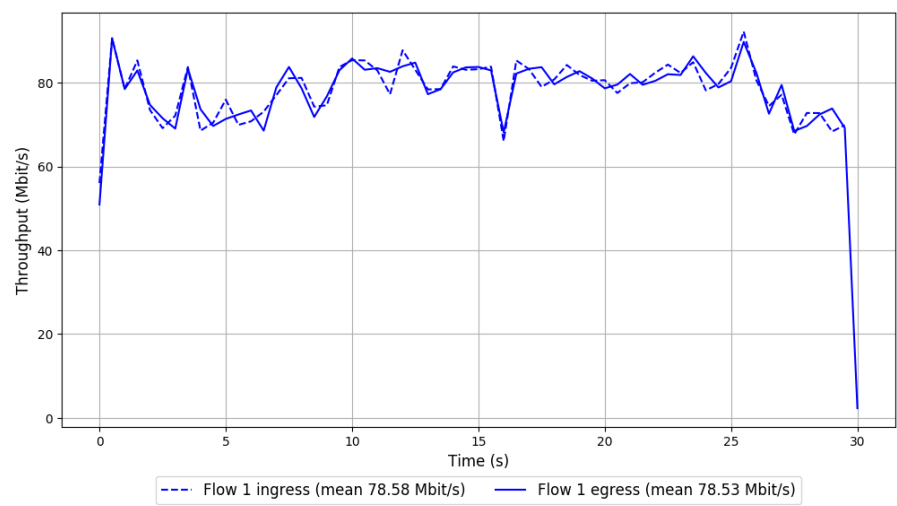
-- Flow 1:

Average throughput: 78.53 Mbit/s

95th percentile per-packet one-way delay: 39.756 ms

Loss rate: 0.06%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-13 03:48:26

End at: 2018-02-13 03:48:56

Local clock offset: 0.611 ms

Remote clock offset: -3.872 ms

Below is generated by plot.py at 2018-02-13 06:48:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.86 Mbit/s

95th percentile per-packet one-way delay: 41.144 ms

Loss rate: 0.13%

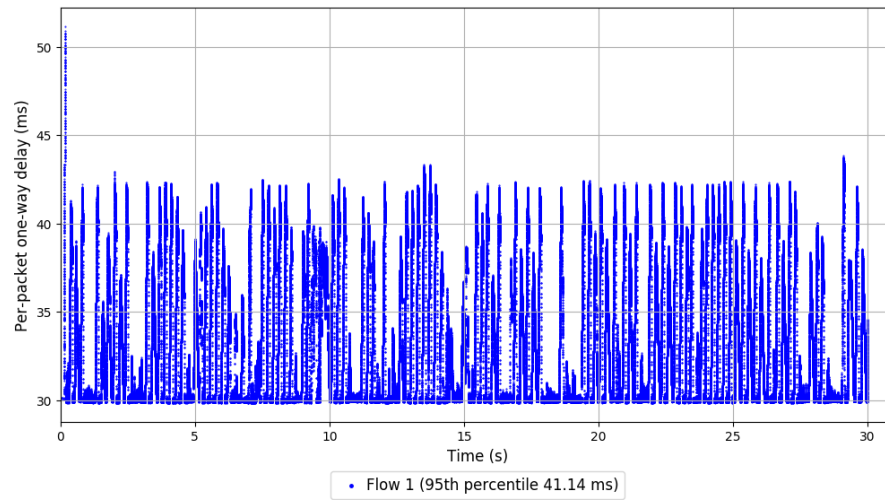
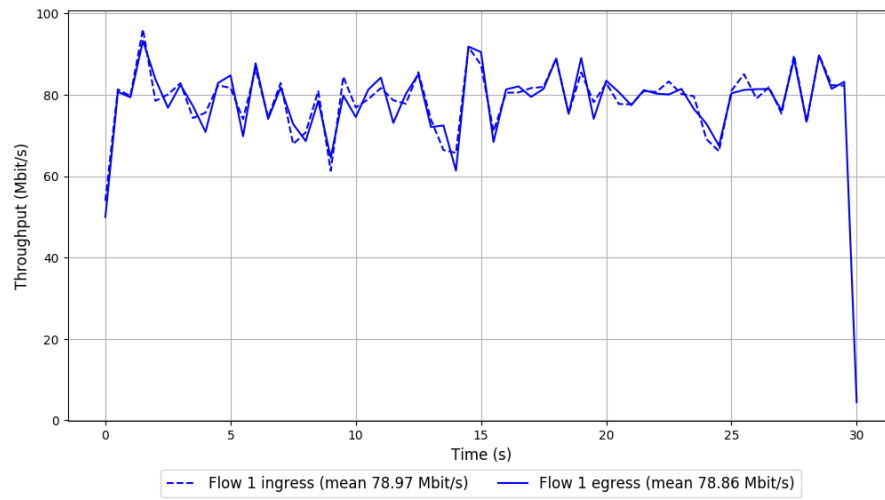
-- Flow 1:

Average throughput: 78.86 Mbit/s

95th percentile per-packet one-way delay: 41.144 ms

Loss rate: 0.13%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-13 04:16:30

End at: 2018-02-13 04:17:00

Local clock offset: 0.635 ms

Remote clock offset: -7.646 ms

Below is generated by plot.py at 2018-02-13 06:48:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.73 Mbit/s

95th percentile per-packet one-way delay: 36.251 ms

Loss rate: 0.21%

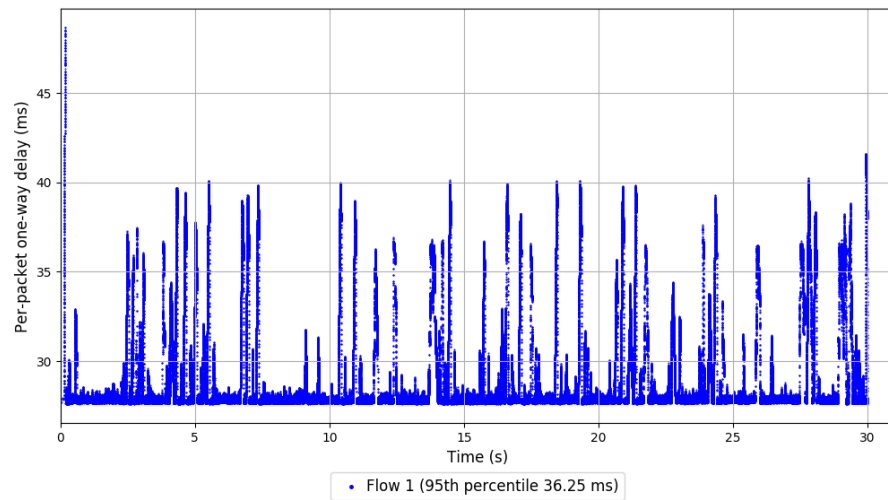
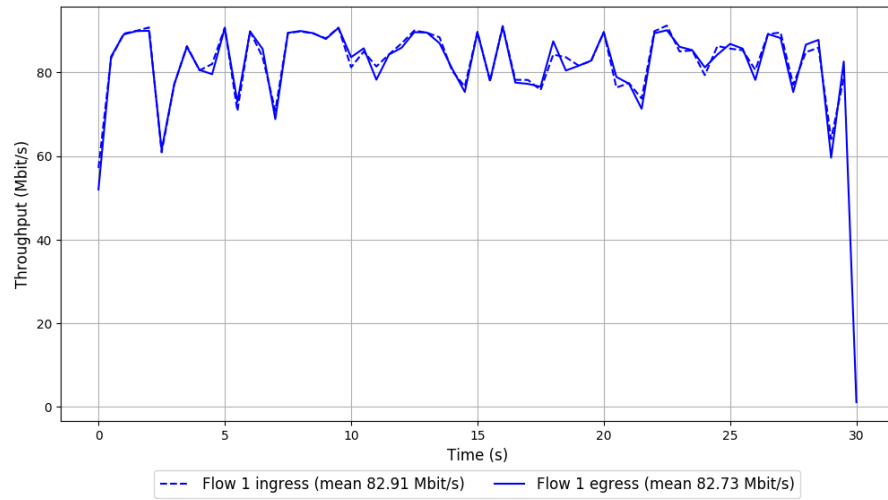
-- Flow 1:

Average throughput: 82.73 Mbit/s

95th percentile per-packet one-way delay: 36.251 ms

Loss rate: 0.21%

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

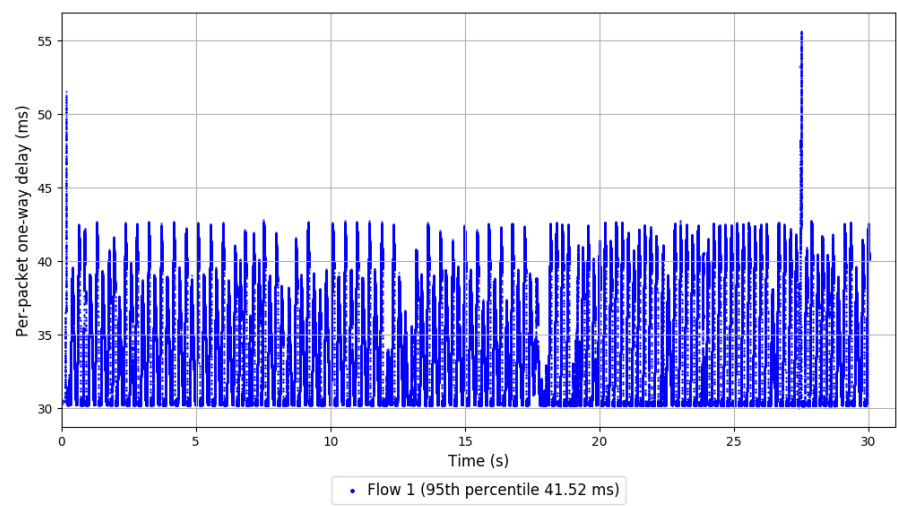
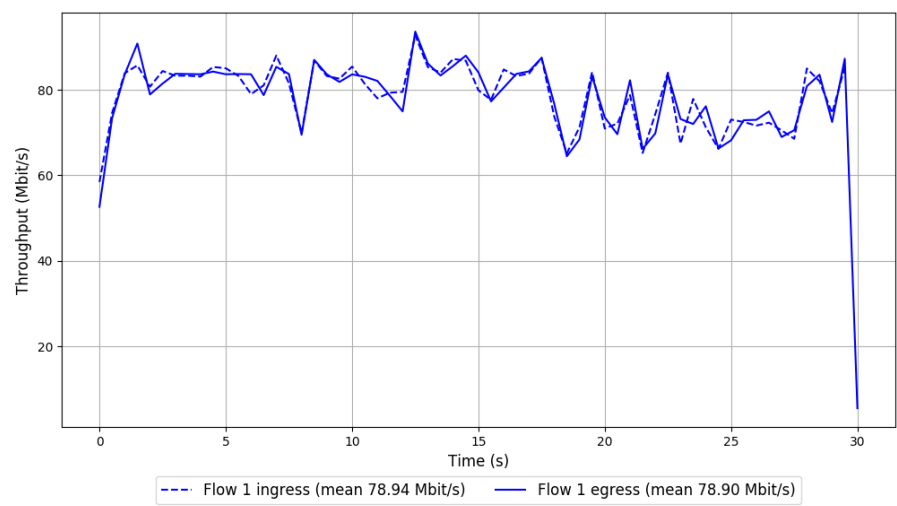


Run 7: Statistics of TaoVA-100x

Start at: 2018-02-13 04:44:08
End at: 2018-02-13 04:44:38
Local clock offset: 0.279 ms
Remote clock offset: -6.463 ms

Below is generated by plot.py at 2018-02-13 06:48:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.90 Mbit/s
95th percentile per-packet one-way delay: 41.518 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 78.90 Mbit/s
95th percentile per-packet one-way delay: 41.518 ms
Loss rate: 0.02%

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

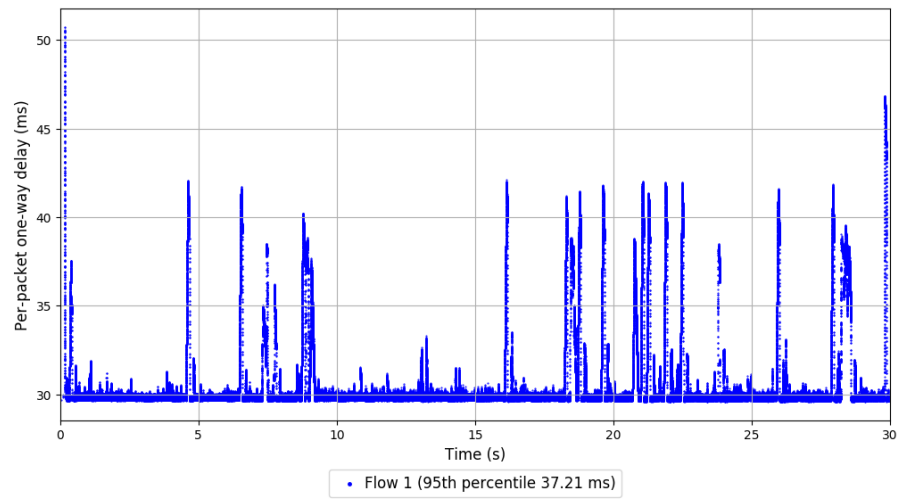
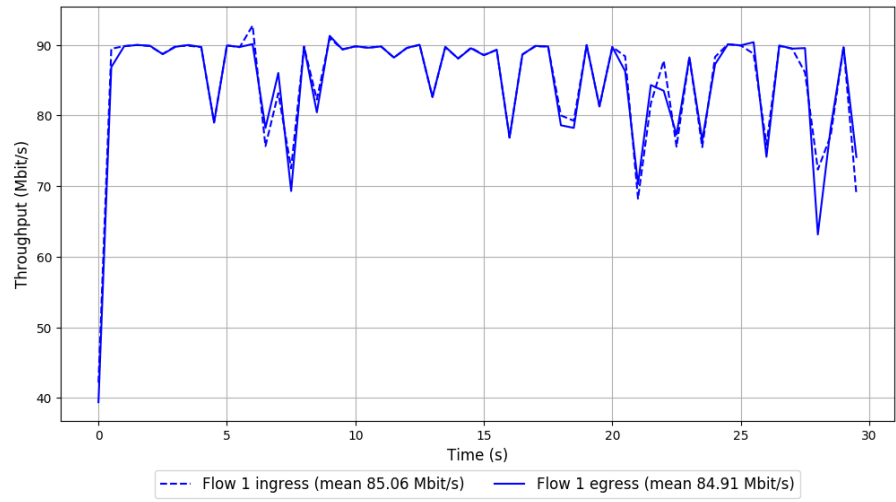


Run 8: Statistics of TaoVA-100x

Start at: 2018-02-13 05:10:45
End at: 2018-02-13 05:11:15
Local clock offset: -1.853 ms
Remote clock offset: -6.415 ms

Below is generated by plot.py at 2018-02-13 06:48:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.91 Mbit/s
95th percentile per-packet one-way delay: 37.209 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 84.91 Mbit/s
95th percentile per-packet one-way delay: 37.209 ms
Loss rate: 0.18%

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

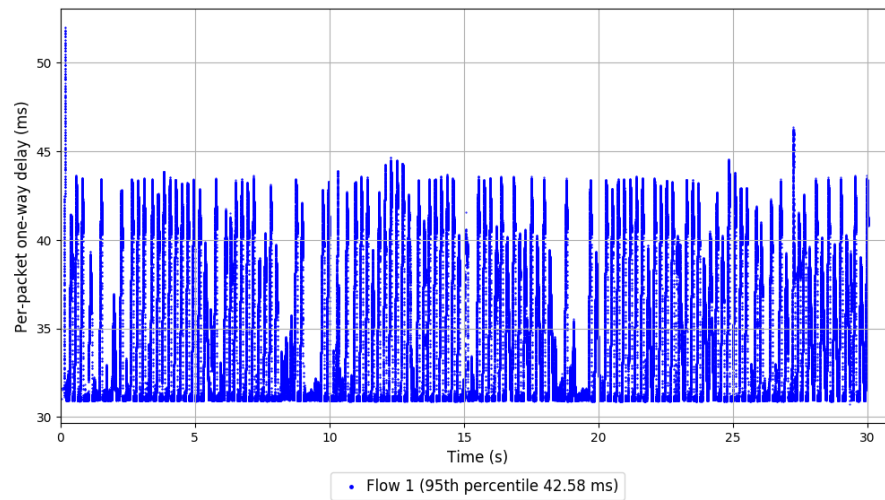
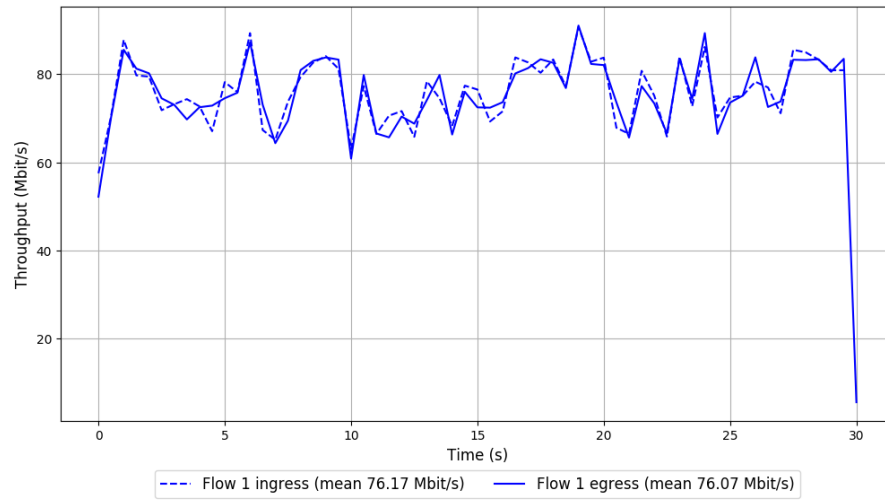


Run 9: Statistics of TaoVA-100x

Start at: 2018-02-13 05:40:53
End at: 2018-02-13 05:41:23
Local clock offset: -1.478 ms
Remote clock offset: -7.879 ms

Below is generated by plot.py at 2018-02-13 06:50:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.07 Mbit/s
95th percentile per-packet one-way delay: 42.581 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 76.07 Mbit/s
95th percentile per-packet one-way delay: 42.581 ms
Loss rate: 0.10%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-02-13 06:07:05

End at: 2018-02-13 06:07:35

Local clock offset: -1.027 ms

Remote clock offset: -5.092 ms

Below is generated by plot.py at 2018-02-13 06:50:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.66 Mbit/s

95th percentile per-packet one-way delay: 33.926 ms

Loss rate: 0.00%

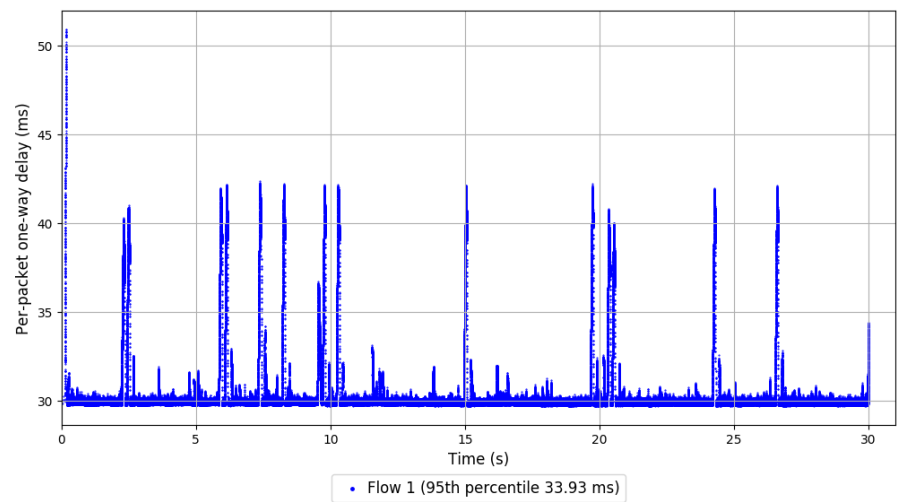
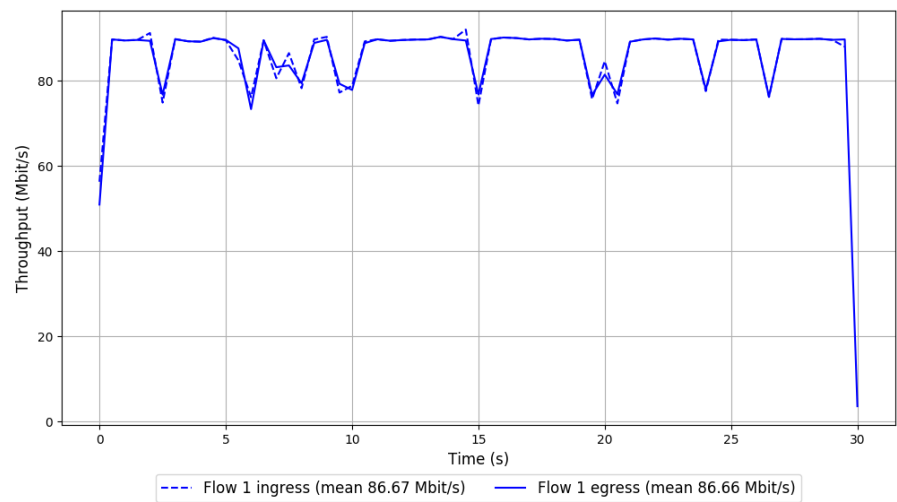
-- Flow 1:

Average throughput: 86.66 Mbit/s

95th percentile per-packet one-way delay: 33.926 ms

Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-13 02:04:08
End at: 2018-02-13 02:04:38
Local clock offset: 0.909 ms
Remote clock offset: -5.383 ms

Below is generated by plot.py at 2018-02-13 06:50:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.32 Mbit/s

95th percentile per-packet one-way delay: 51.824 ms

Loss rate: 0.36%

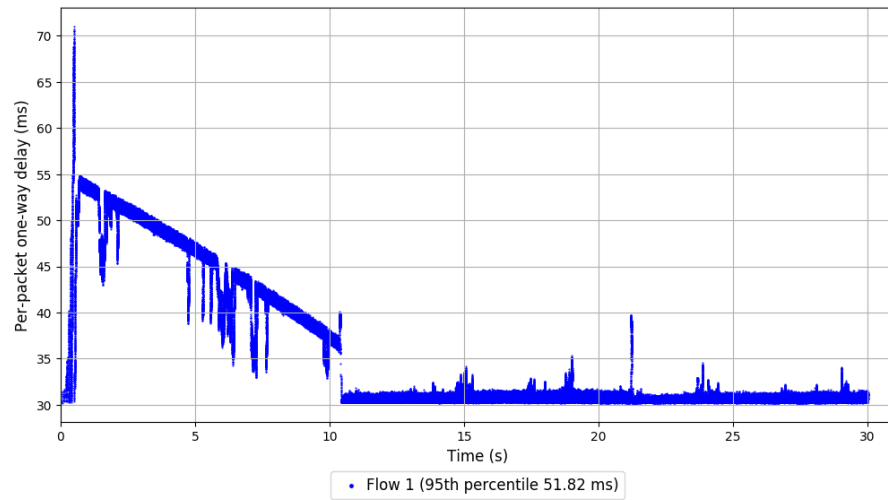
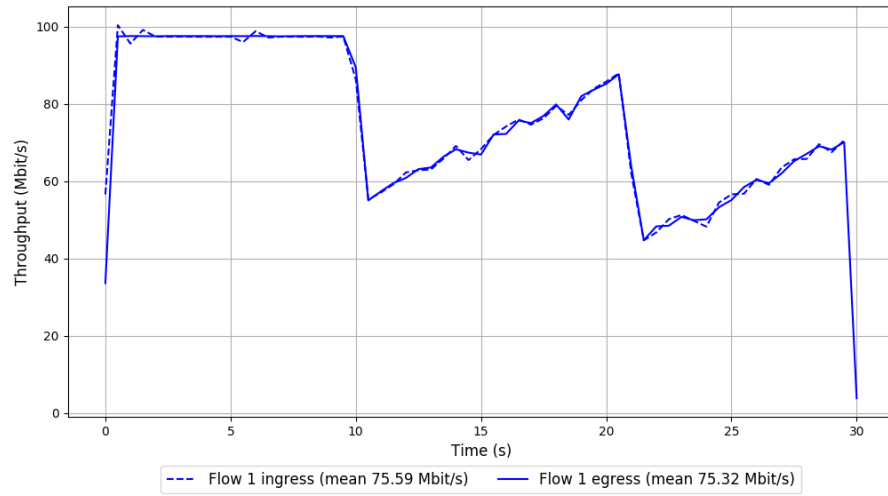
-- Flow 1:

Average throughput: 75.32 Mbit/s

95th percentile per-packet one-way delay: 51.824 ms

Loss rate: 0.36%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-13 02:29:26

End at: 2018-02-13 02:29:56

Local clock offset: 0.255 ms

Remote clock offset: -4.6 ms

Below is generated by plot.py at 2018-02-13 06:50:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.67 Mbit/s

95th percentile per-packet one-way delay: 32.834 ms

Loss rate: 0.80%

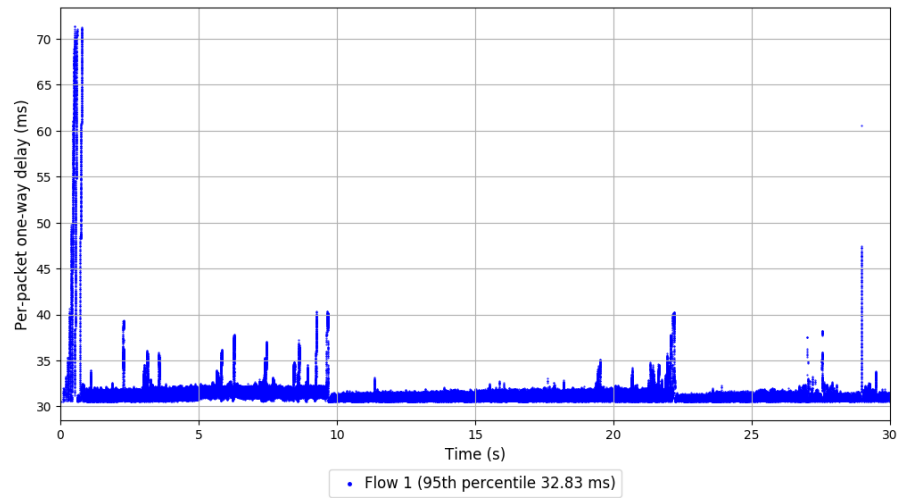
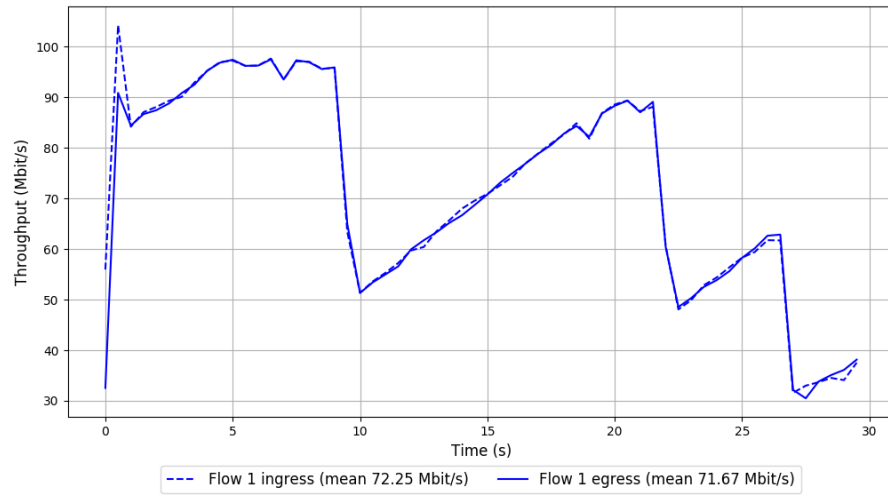
-- Flow 1:

Average throughput: 71.67 Mbit/s

95th percentile per-packet one-way delay: 32.834 ms

Loss rate: 0.80%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-13 02:54:24

End at: 2018-02-13 02:54:54

Local clock offset: 0.178 ms

Remote clock offset: -3.75 ms

Below is generated by plot.py at 2018-02-13 06:50:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.61 Mbit/s

95th percentile per-packet one-way delay: 51.034 ms

Loss rate: 0.58%

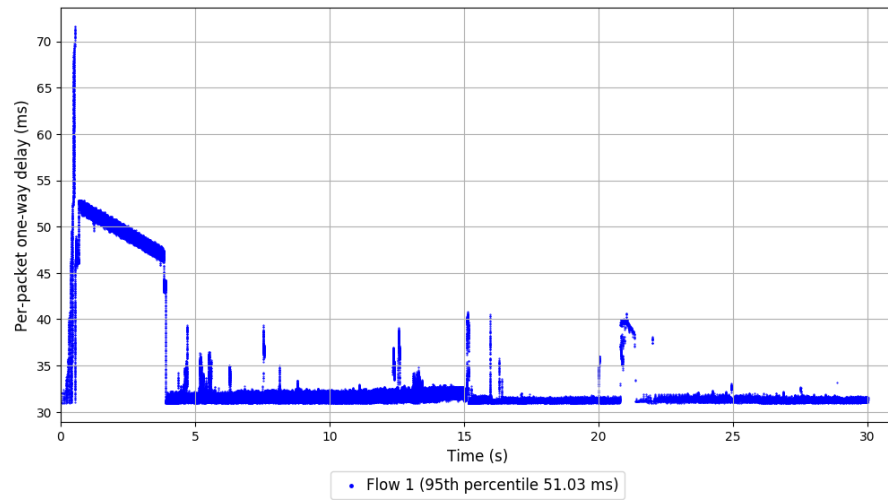
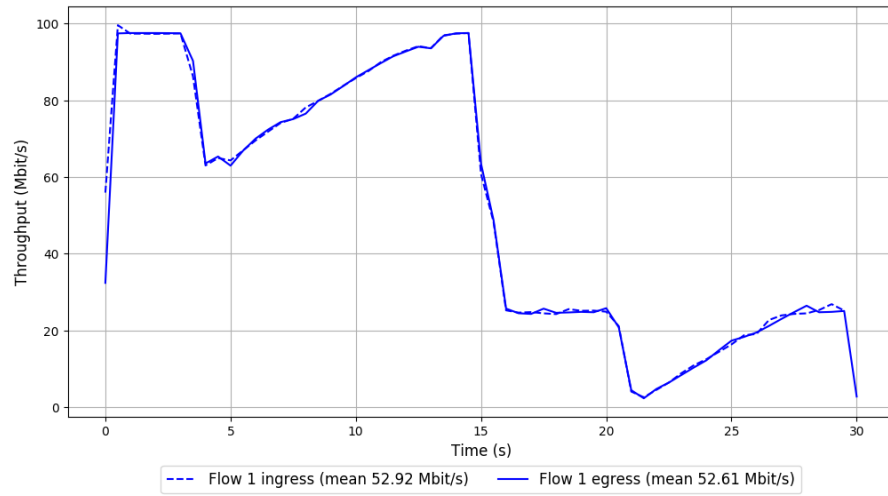
-- Flow 1:

Average throughput: 52.61 Mbit/s

95th percentile per-packet one-way delay: 51.034 ms

Loss rate: 0.58%

Run 3: Report of TCP Vegas — Data Link

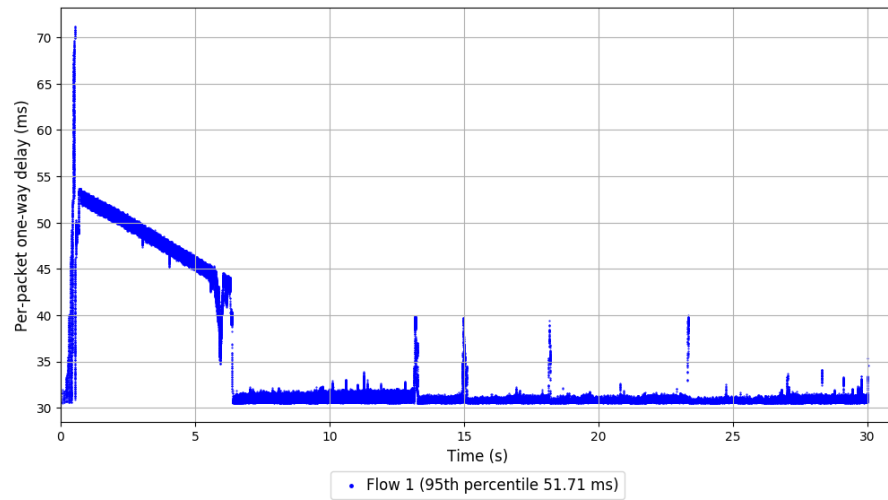
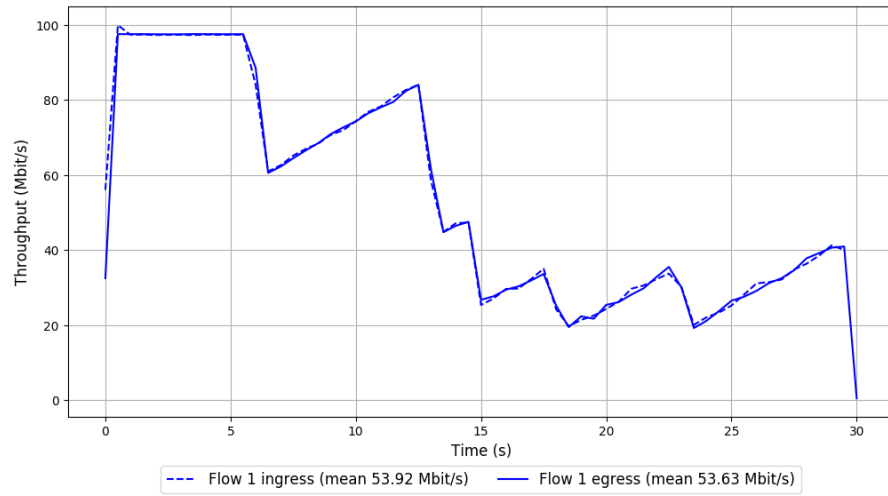


Run 4: Statistics of TCP Vegas

Start at: 2018-02-13 03:19:10
End at: 2018-02-13 03:19:40
Local clock offset: 0.249 ms
Remote clock offset: -2.587 ms

Below is generated by plot.py at 2018-02-13 06:50:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 53.63 Mbit/s
95th percentile per-packet one-way delay: 51.712 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 53.63 Mbit/s
95th percentile per-packet one-way delay: 51.712 ms
Loss rate: 0.55%

Run 4: Report of TCP Vegas — Data Link

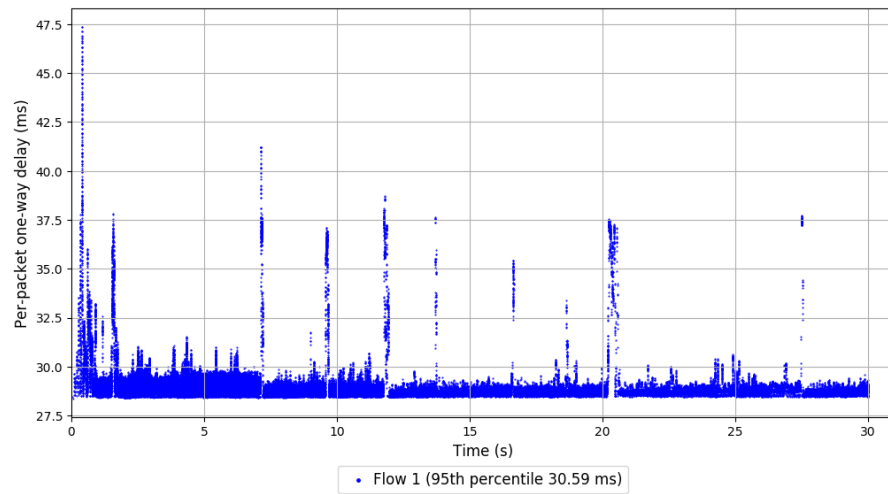
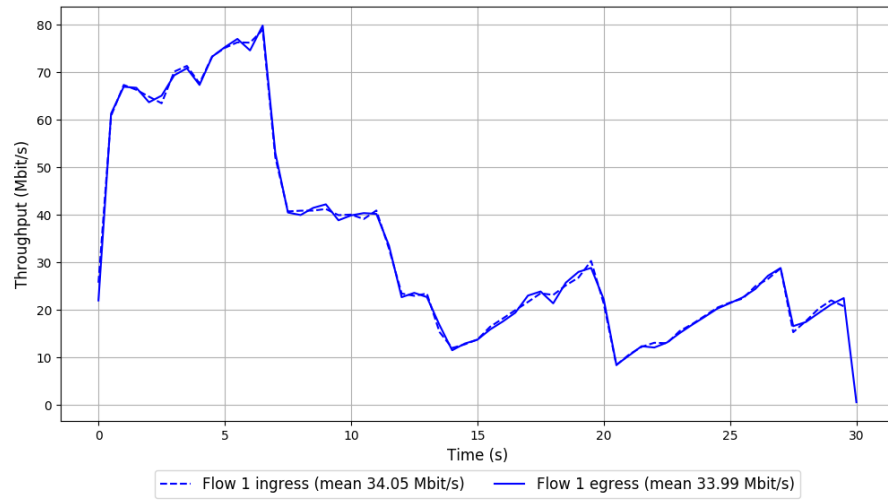


Run 5: Statistics of TCP Vegas

Start at: 2018-02-13 03:45:32
End at: 2018-02-13 03:46:02
Local clock offset: 0.548 ms
Remote clock offset: -5.869 ms

Below is generated by plot.py at 2018-02-13 06:50:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 33.99 Mbit/s
95th percentile per-packet one-way delay: 30.587 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 33.99 Mbit/s
95th percentile per-packet one-way delay: 30.587 ms
Loss rate: 0.17%

Run 5: Report of TCP Vegas — Data Link

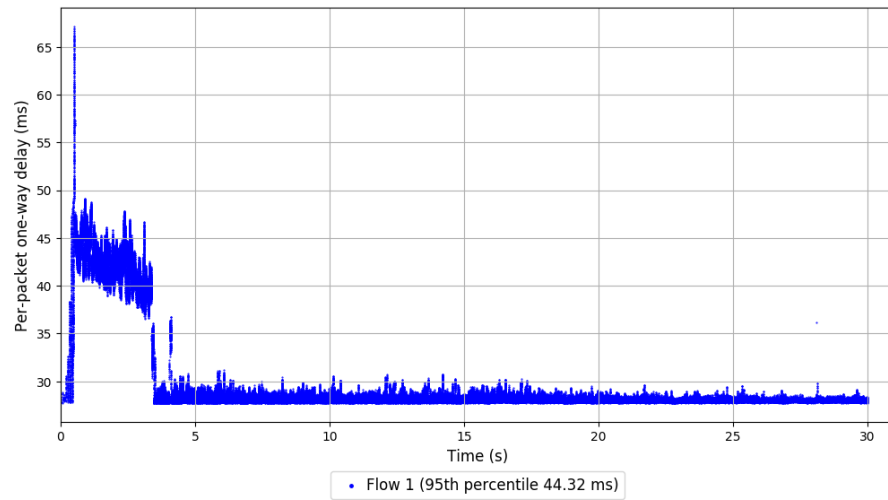
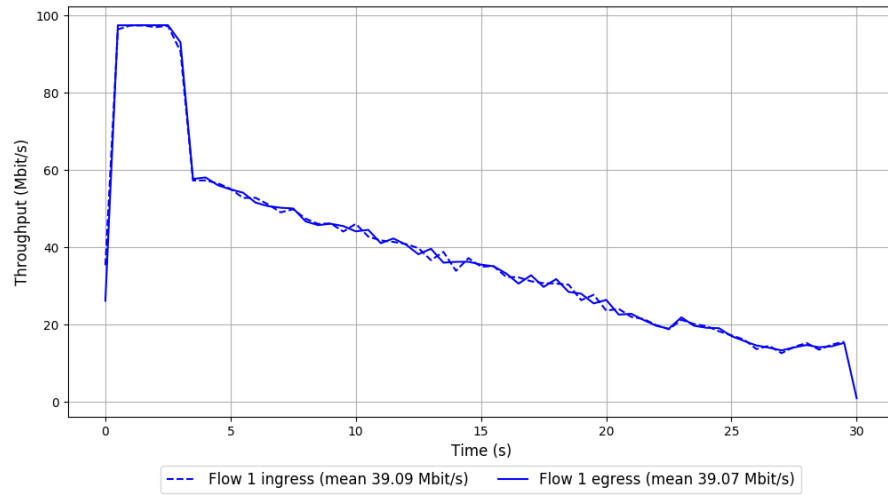


Run 6: Statistics of TCP Vegas

Start at: 2018-02-13 04:13:27
End at: 2018-02-13 04:13:58
Local clock offset: 0.78 ms
Remote clock offset: -7.225 ms

Below is generated by plot.py at 2018-02-13 06:50:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 39.07 Mbit/s
95th percentile per-packet one-way delay: 44.321 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 39.07 Mbit/s
95th percentile per-packet one-way delay: 44.321 ms
Loss rate: 0.05%

Run 6: Report of TCP Vegas — Data Link

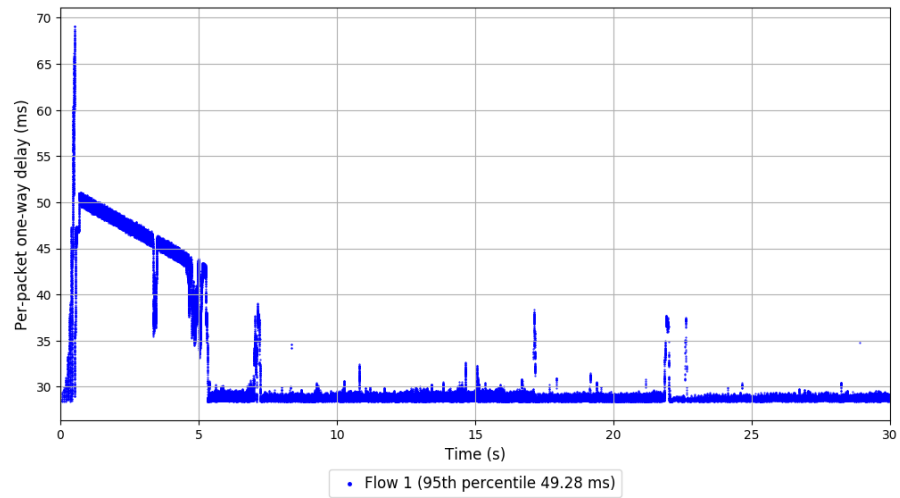
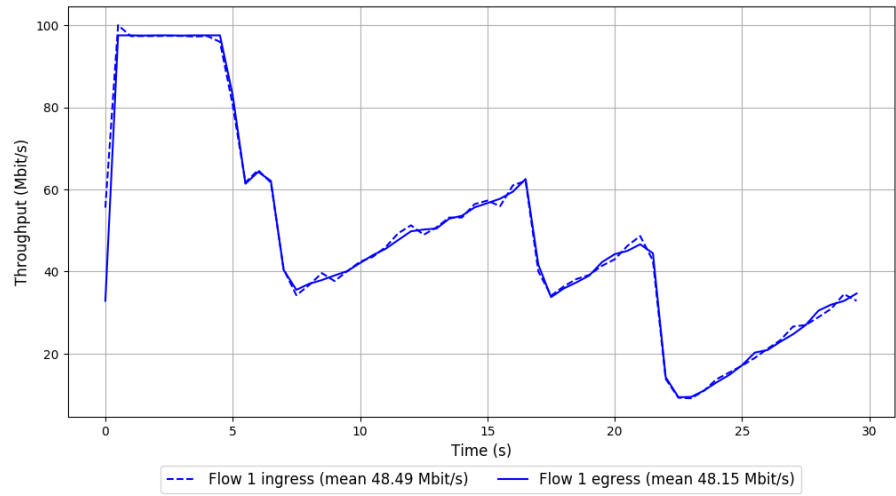


Run 7: Statistics of TCP Vegas

Start at: 2018-02-13 04:41:22
End at: 2018-02-13 04:41:52
Local clock offset: 0.177 ms
Remote clock offset: -9.178 ms

Below is generated by plot.py at 2018-02-13 06:50:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 48.15 Mbit/s
95th percentile per-packet one-way delay: 49.279 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 48.15 Mbit/s
95th percentile per-packet one-way delay: 49.279 ms
Loss rate: 0.71%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-13 05:07:39

End at: 2018-02-13 05:08:09

Local clock offset: -1.746 ms

Remote clock offset: -8.66 ms

Below is generated by plot.py at 2018-02-13 06:50:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.24 Mbit/s

95th percentile per-packet one-way delay: 28.209 ms

Loss rate: 0.00%

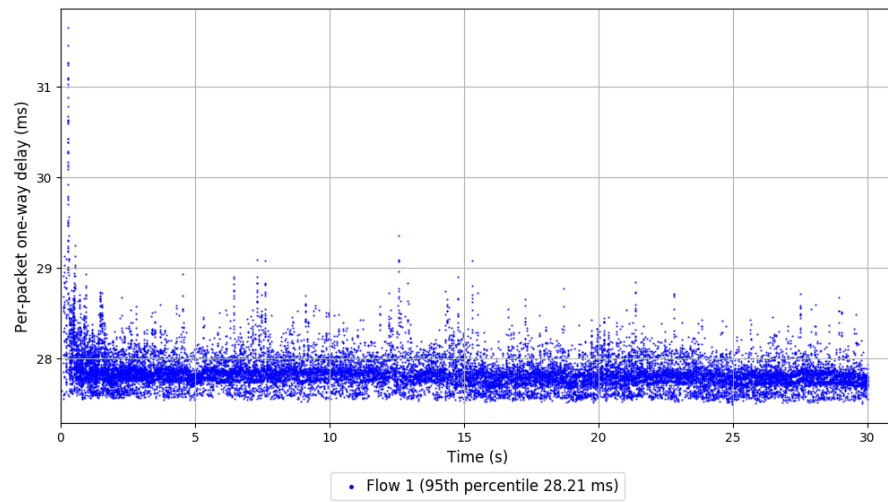
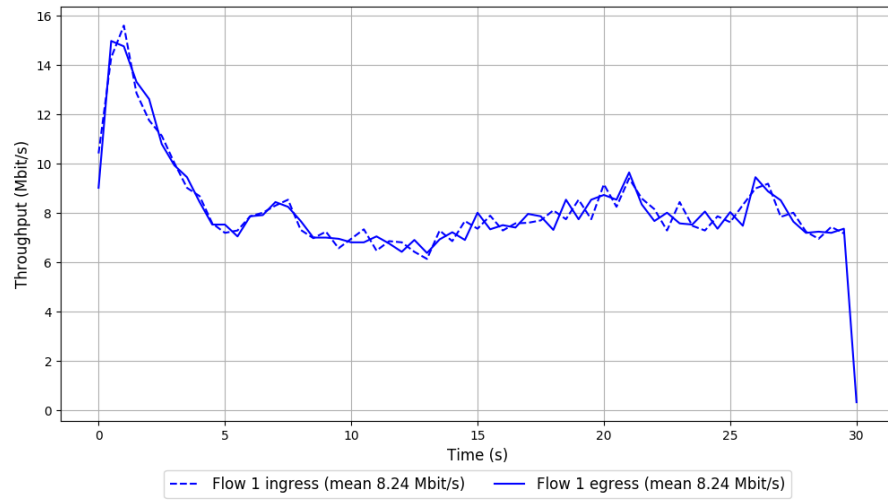
-- Flow 1:

Average throughput: 8.24 Mbit/s

95th percentile per-packet one-way delay: 28.209 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link

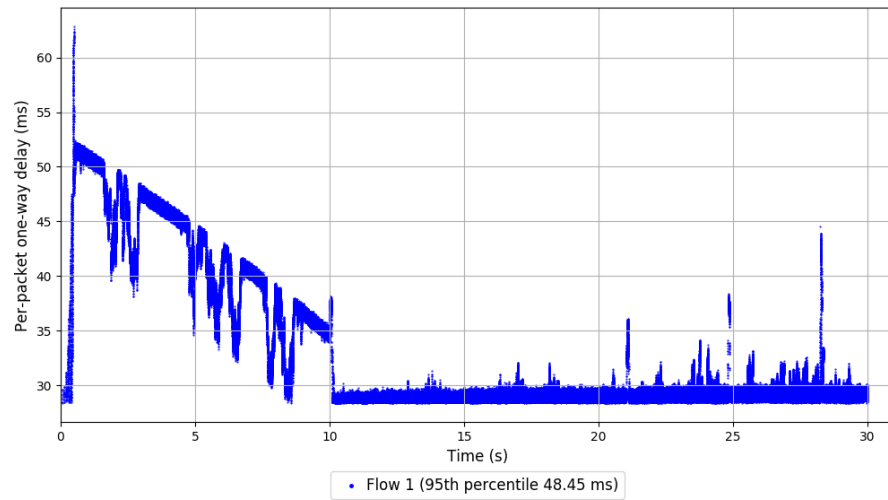
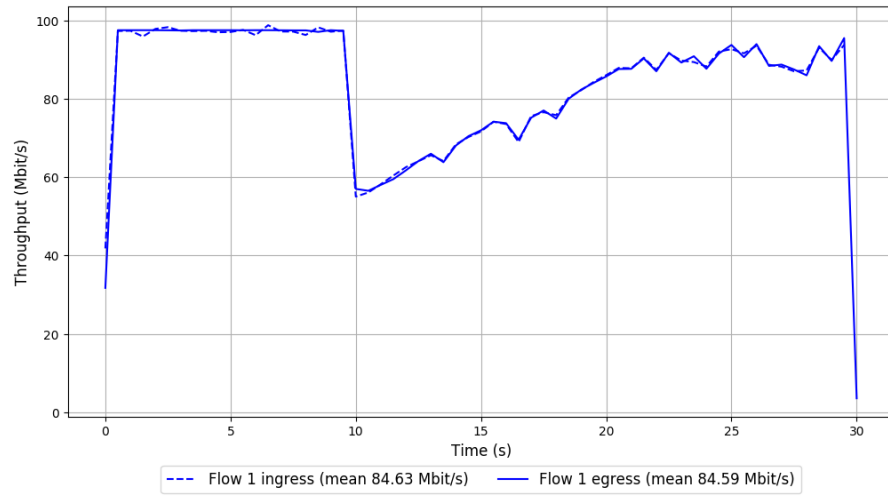


Run 9: Statistics of TCP Vegas

Start at: 2018-02-13 05:37:54
End at: 2018-02-13 05:38:24
Local clock offset: -1.359 ms
Remote clock offset: -10.299 ms

Below is generated by plot.py at 2018-02-13 06:50:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.59 Mbit/s
95th percentile per-packet one-way delay: 48.445 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 84.59 Mbit/s
95th percentile per-packet one-way delay: 48.445 ms
Loss rate: 0.04%

Run 9: Report of TCP Vegas — Data Link

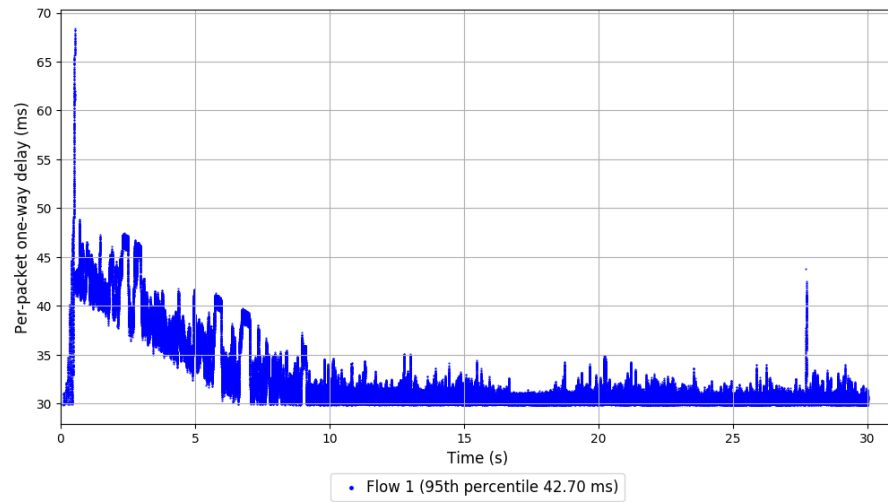
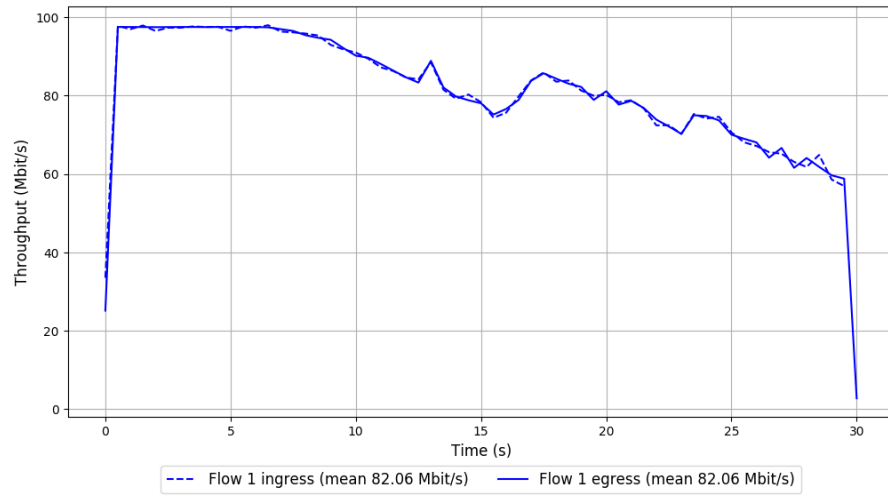


Run 10: Statistics of TCP Vegas

Start at: 2018-02-13 06:03:49
End at: 2018-02-13 06:04:19
Local clock offset: -1.195 ms
Remote clock offset: -5.411 ms

Below is generated by plot.py at 2018-02-13 06:50:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.06 Mbit/s
95th percentile per-packet one-way delay: 42.705 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 82.06 Mbit/s
95th percentile per-packet one-way delay: 42.705 ms
Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

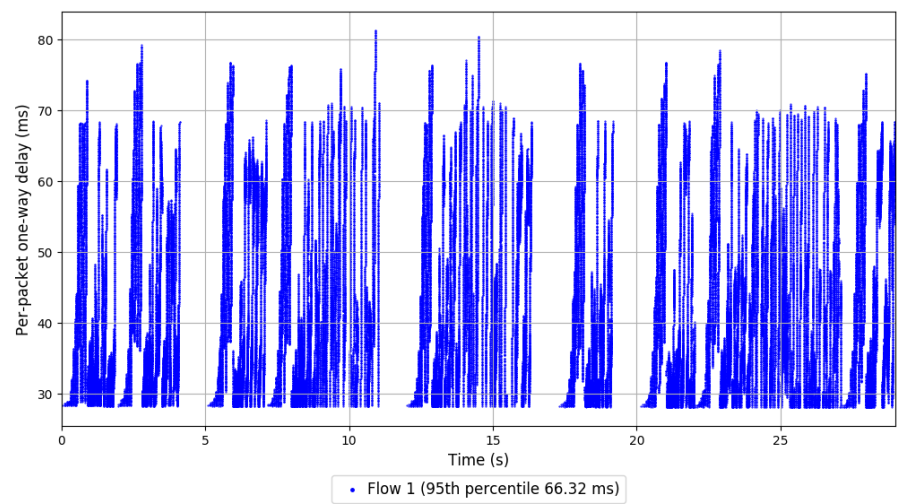
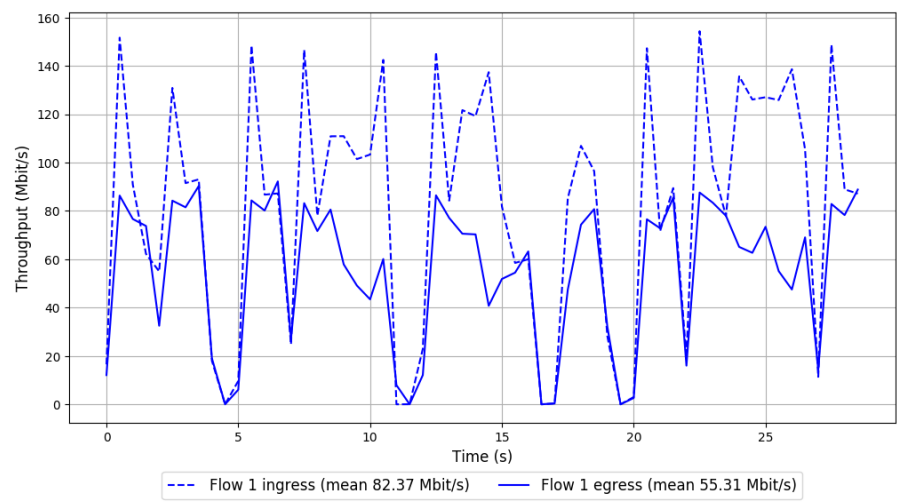


Run 1: Statistics of Verus

Start at: 2018-02-13 01:54:04
End at: 2018-02-13 01:54:34
Local clock offset: 2.012 ms
Remote clock offset: -9.738 ms

Below is generated by plot.py at 2018-02-13 06:50:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 55.31 Mbit/s
95th percentile per-packet one-way delay: 66.317 ms
Loss rate: 32.81%
-- Flow 1:
Average throughput: 55.31 Mbit/s
95th percentile per-packet one-way delay: 66.317 ms
Loss rate: 32.81%

Run 1: Report of Verus — Data Link

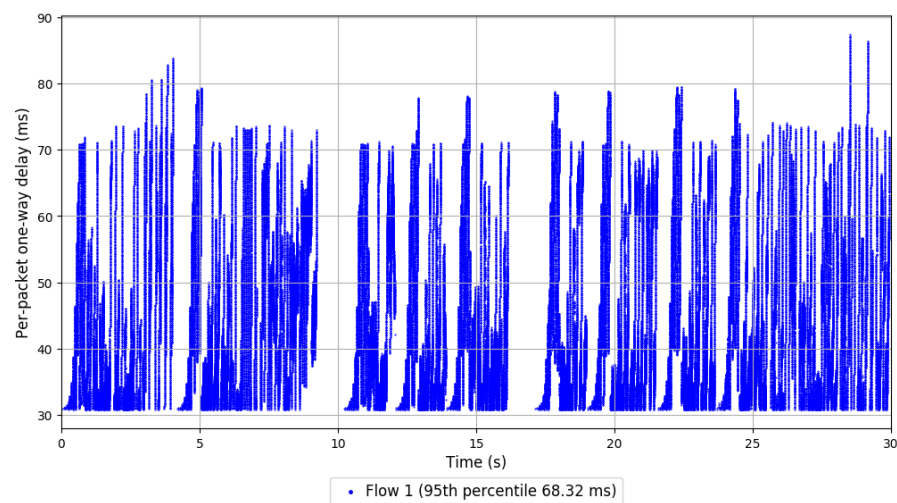
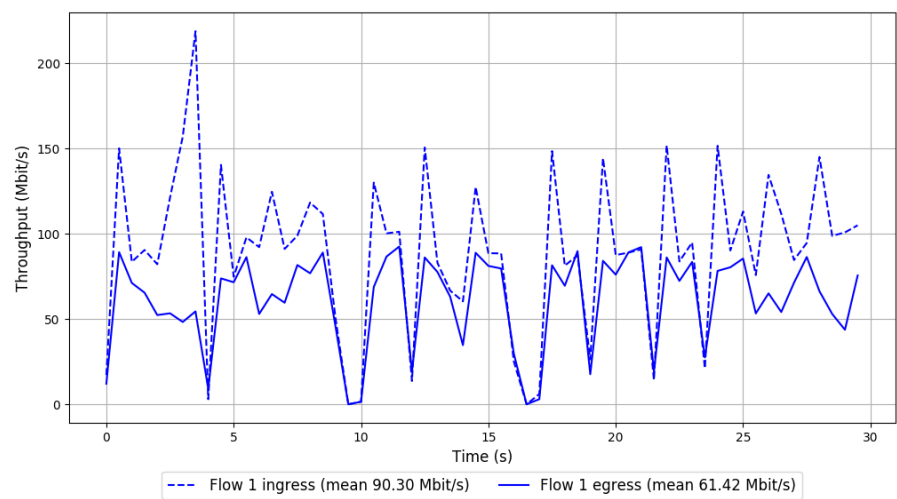


Run 2: Statistics of Verus

Start at: 2018-02-13 02:19:46
End at: 2018-02-13 02:20:16
Local clock offset: 0.371 ms
Remote clock offset: -4.269 ms

Below is generated by plot.py at 2018-02-13 06:50:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 61.42 Mbit/s
95th percentile per-packet one-way delay: 68.317 ms
Loss rate: 31.92%
-- Flow 1:
Average throughput: 61.42 Mbit/s
95th percentile per-packet one-way delay: 68.317 ms
Loss rate: 31.92%

Run 2: Report of Verus — Data Link

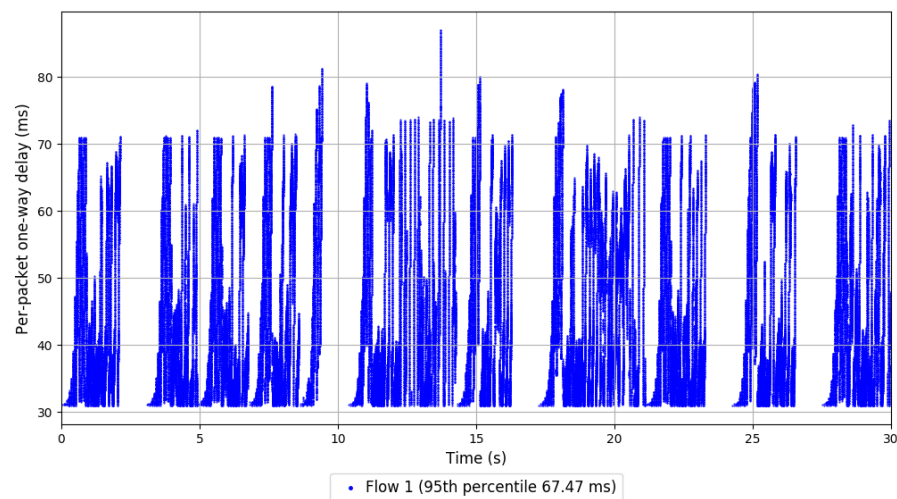
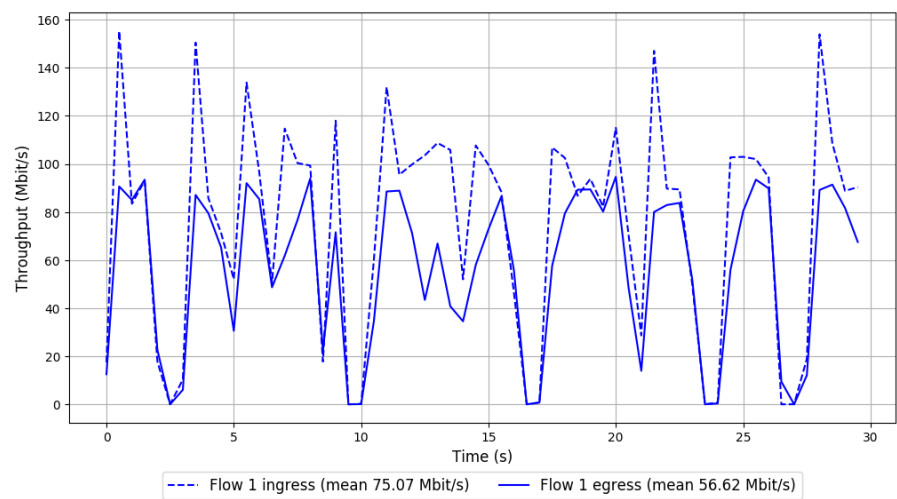


Run 3: Statistics of Verus

Start at: 2018-02-13 02:44:49
End at: 2018-02-13 02:45:19
Local clock offset: 0.362 ms
Remote clock offset: -3.906 ms

Below is generated by plot.py at 2018-02-13 06:50:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 56.62 Mbit/s
95th percentile per-packet one-way delay: 67.467 ms
Loss rate: 24.56%
-- Flow 1:
Average throughput: 56.62 Mbit/s
95th percentile per-packet one-way delay: 67.467 ms
Loss rate: 24.56%

Run 3: Report of Verus — Data Link

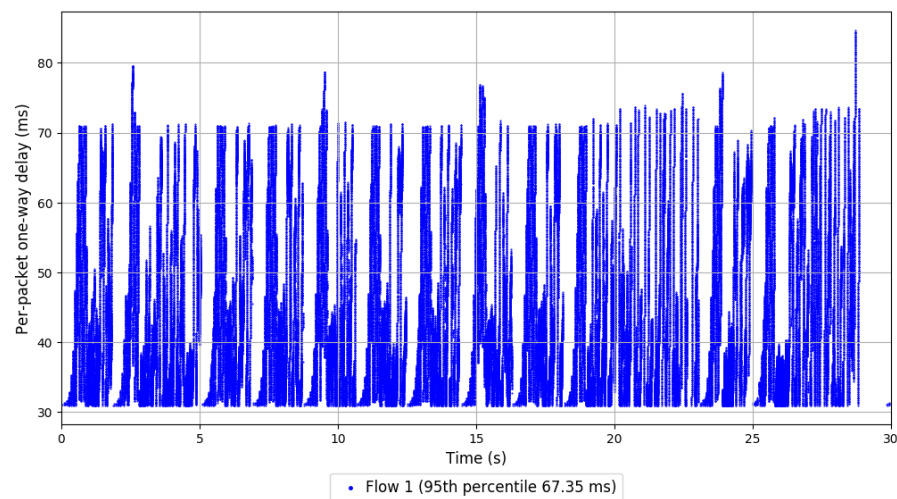
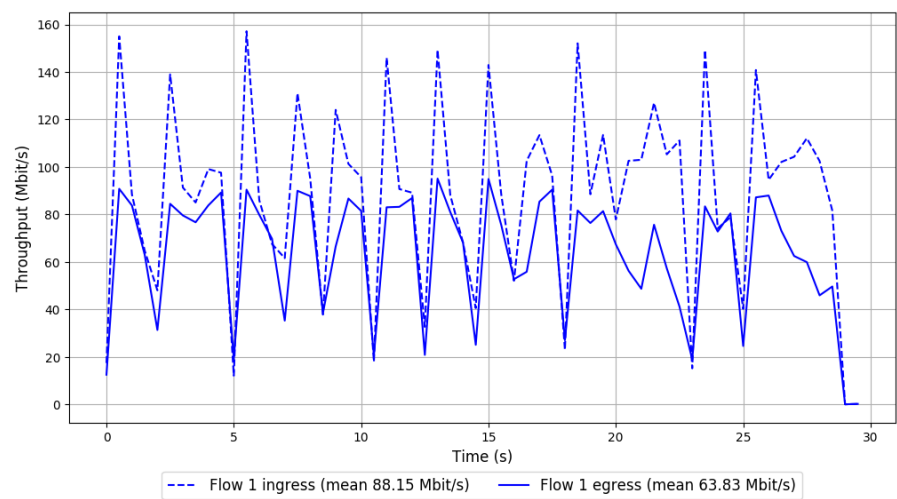


Run 4: Statistics of Verus

Start at: 2018-02-13 03:09:27
End at: 2018-02-13 03:09:57
Local clock offset: 0.233 ms
Remote clock offset: -2.566 ms

Below is generated by plot.py at 2018-02-13 06:50:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 63.83 Mbit/s
95th percentile per-packet one-way delay: 67.354 ms
Loss rate: 27.59%
-- Flow 1:
Average throughput: 63.83 Mbit/s
95th percentile per-packet one-way delay: 67.354 ms
Loss rate: 27.59%

Run 4: Report of Verus — Data Link

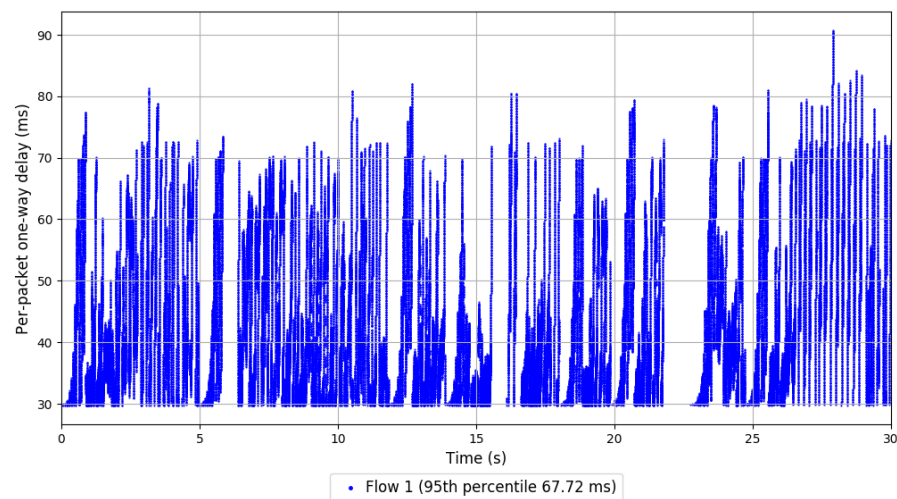
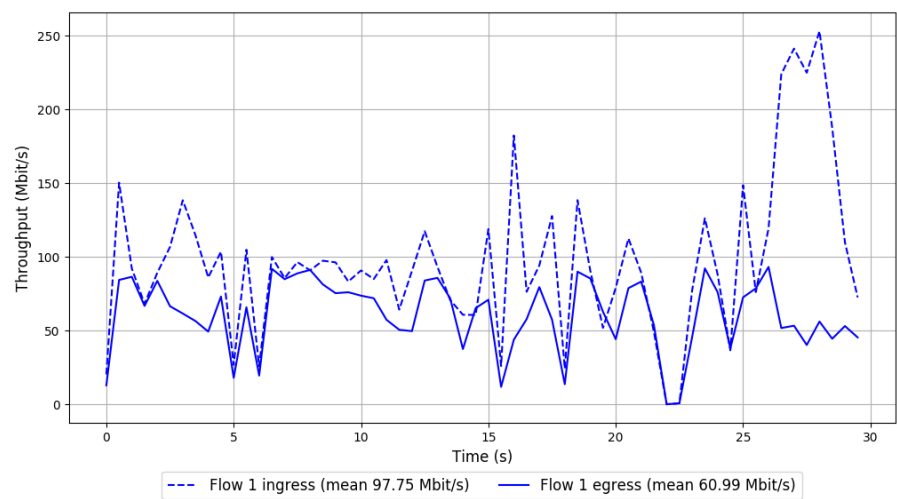


Run 5: Statistics of Verus

Start at: 2018-02-13 03:34:31
End at: 2018-02-13 03:35:01
Local clock offset: 0.111 ms
Remote clock offset: -2.954 ms

Below is generated by plot.py at 2018-02-13 06:51:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 60.99 Mbit/s
95th percentile per-packet one-way delay: 67.723 ms
Loss rate: 37.56%
-- Flow 1:
Average throughput: 60.99 Mbit/s
95th percentile per-packet one-way delay: 67.723 ms
Loss rate: 37.56%

Run 5: Report of Verus — Data Link

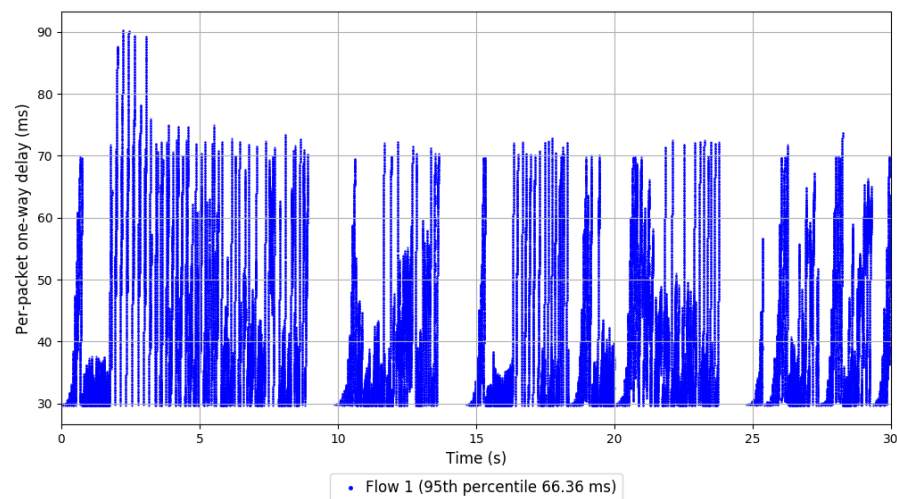
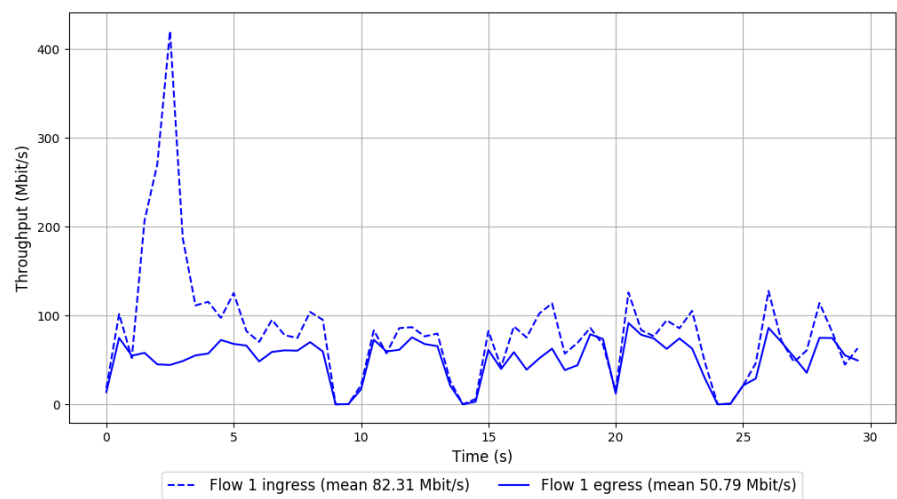


Run 6: Statistics of Verus

Start at: 2018-02-13 04:01:35
End at: 2018-02-13 04:02:05
Local clock offset: 0.869 ms
Remote clock offset: -4.095 ms

Below is generated by plot.py at 2018-02-13 06:51:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.79 Mbit/s
95th percentile per-packet one-way delay: 66.362 ms
Loss rate: 38.23%
-- Flow 1:
Average throughput: 50.79 Mbit/s
95th percentile per-packet one-way delay: 66.362 ms
Loss rate: 38.23%

Run 6: Report of Verus — Data Link

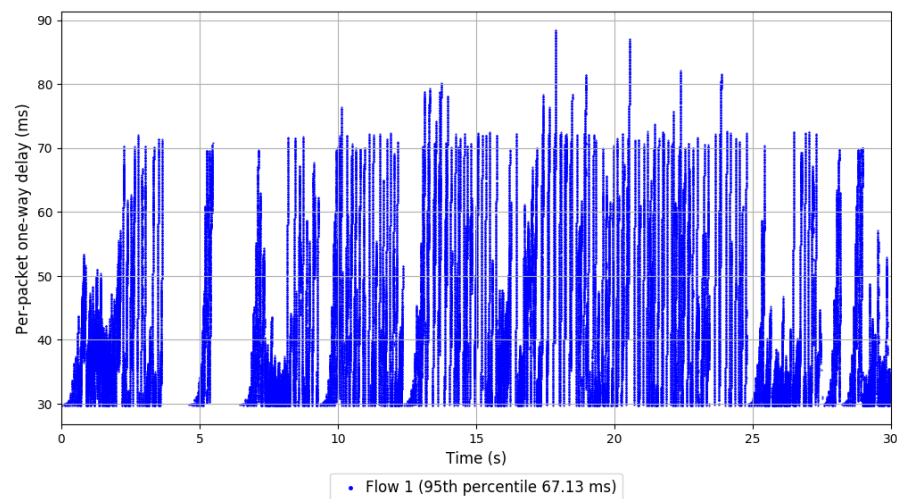
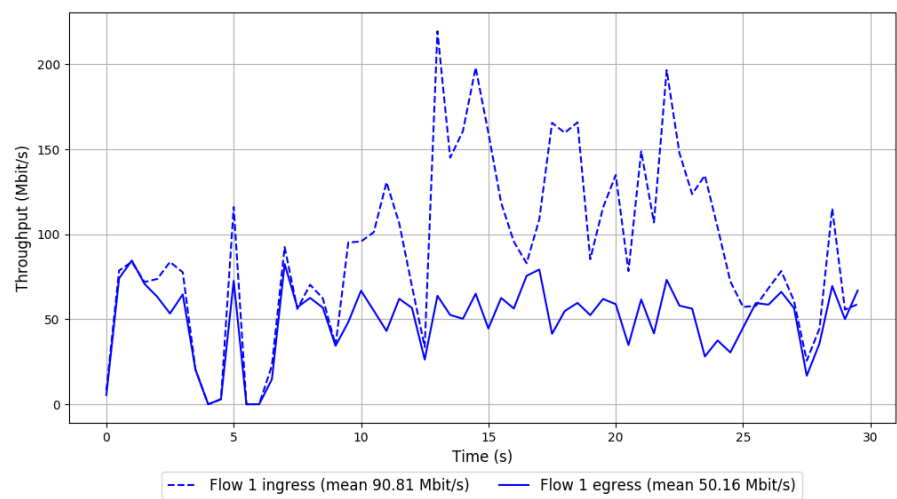


Run 7: Statistics of Verus

Start at: 2018-02-13 04:30:48
End at: 2018-02-13 04:31:18
Local clock offset: 0.31 ms
Remote clock offset: -6.741 ms

Below is generated by plot.py at 2018-02-13 06:51:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.16 Mbit/s
95th percentile per-packet one-way delay: 67.133 ms
Loss rate: 44.76%
-- Flow 1:
Average throughput: 50.16 Mbit/s
95th percentile per-packet one-way delay: 67.133 ms
Loss rate: 44.76%

Run 7: Report of Verus — Data Link

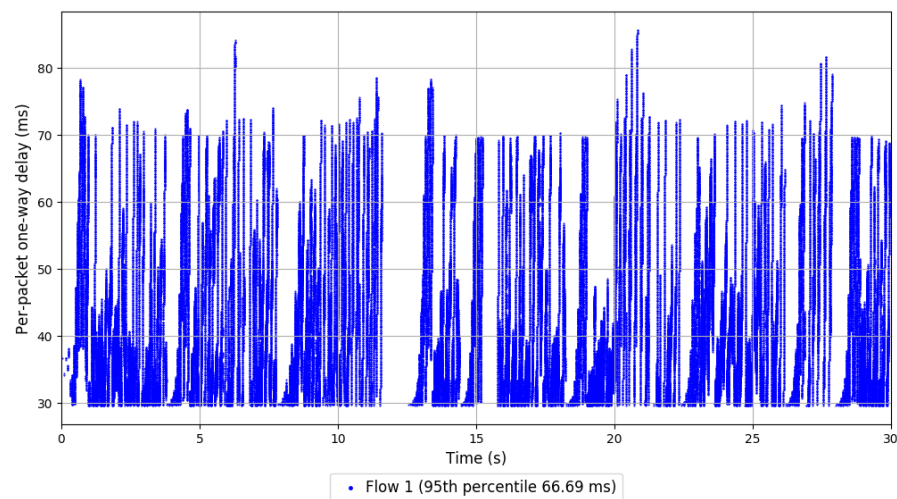
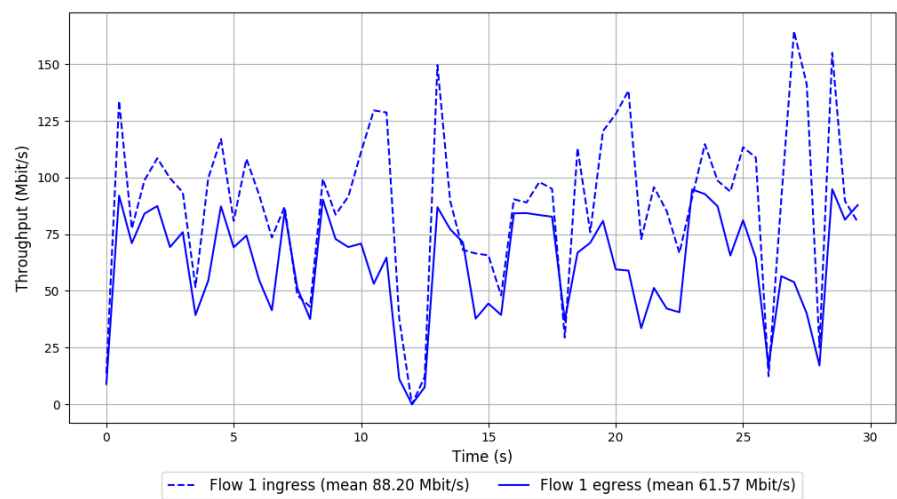


Run 8: Statistics of Verus

Start at: 2018-02-13 04:56:21
End at: 2018-02-13 04:56:51
Local clock offset: -1.064 ms
Remote clock offset: -6.703 ms

Below is generated by plot.py at 2018-02-13 06:51:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 61.57 Mbit/s
95th percentile per-packet one-way delay: 66.695 ms
Loss rate: 30.14%
-- Flow 1:
Average throughput: 61.57 Mbit/s
95th percentile per-packet one-way delay: 66.695 ms
Loss rate: 30.14%

Run 8: Report of Verus — Data Link

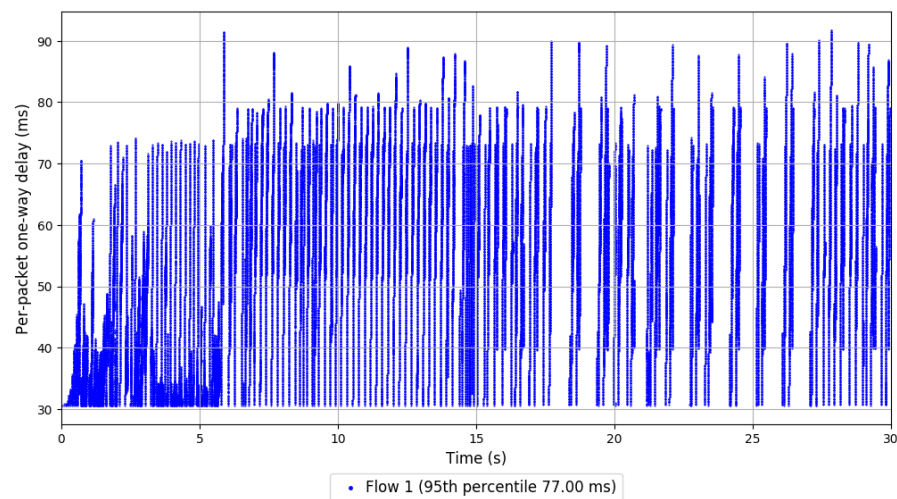
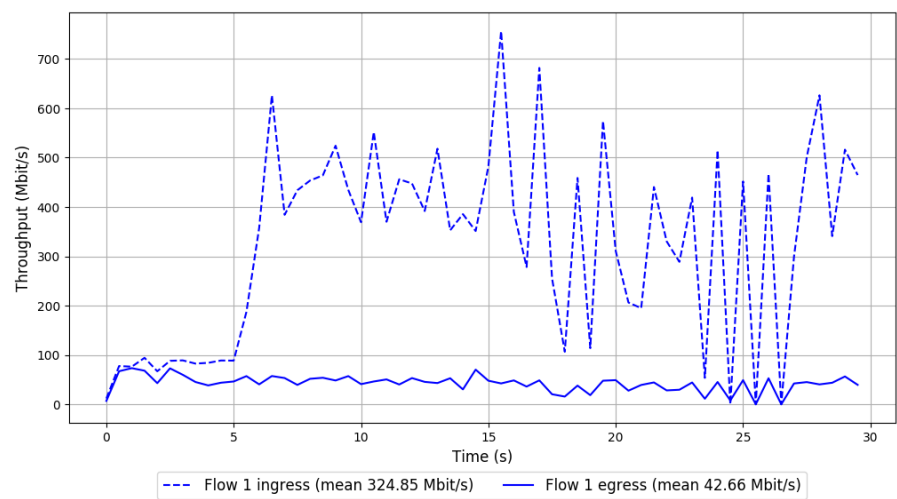


Run 9: Statistics of Verus

Start at: 2018-02-13 05:26:43
End at: 2018-02-13 05:27:14
Local clock offset: -1.613 ms
Remote clock offset: -7.843 ms

Below is generated by plot.py at 2018-02-13 06:52:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 42.66 Mbit/s
95th percentile per-packet one-way delay: 76.998 ms
Loss rate: 86.86%
-- Flow 1:
Average throughput: 42.66 Mbit/s
95th percentile per-packet one-way delay: 76.998 ms
Loss rate: 86.86%

Run 9: Report of Verus — Data Link

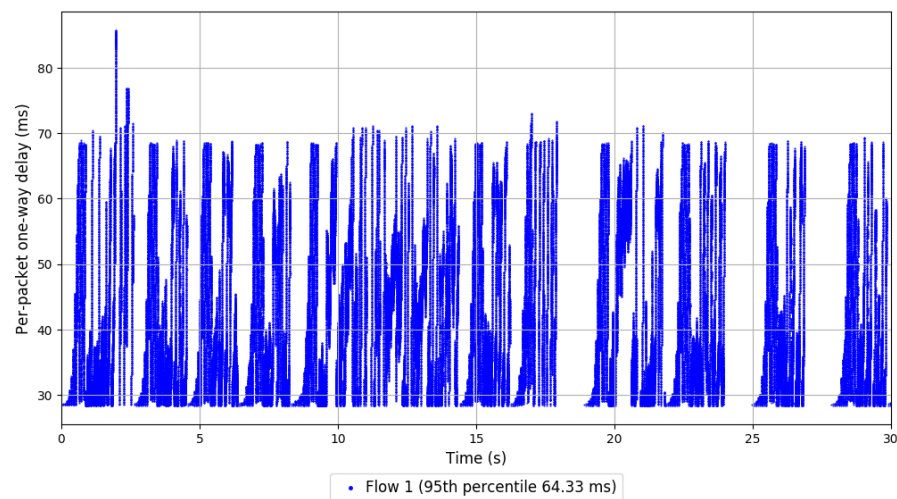
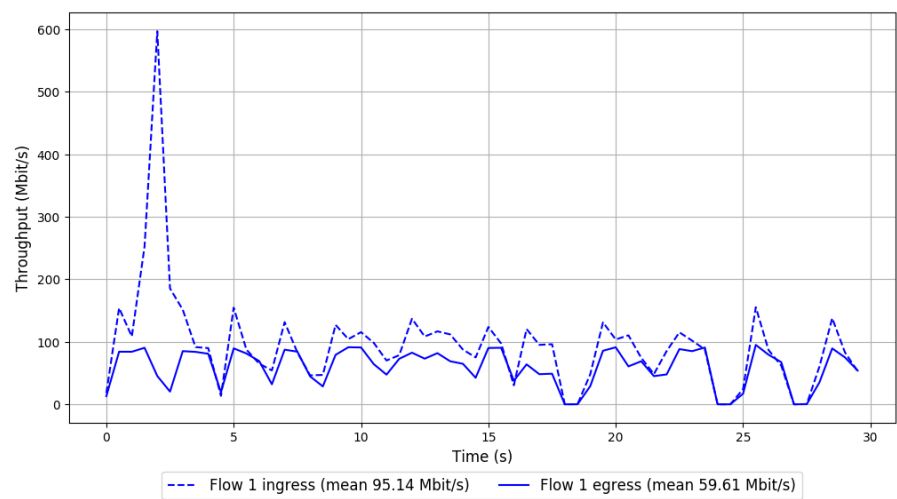


Run 10: Statistics of Verus

Start at: 2018-02-13 05:53:36
End at: 2018-02-13 05:54:06
Local clock offset: -1.451 ms
Remote clock offset: -8.772 ms

Below is generated by plot.py at 2018-02-13 06:52:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 59.61 Mbit/s
95th percentile per-packet one-way delay: 64.334 ms
Loss rate: 37.34%
-- Flow 1:
Average throughput: 59.61 Mbit/s
95th percentile per-packet one-way delay: 64.334 ms
Loss rate: 37.34%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-13 01:52:37

End at: 2018-02-13 01:53:08

Local clock offset: 2.034 ms

Remote clock offset: -8.09 ms

Below is generated by plot.py at 2018-02-13 06:52:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.15 Mbit/s

95th percentile per-packet one-way delay: 29.991 ms

Loss rate: 0.07%

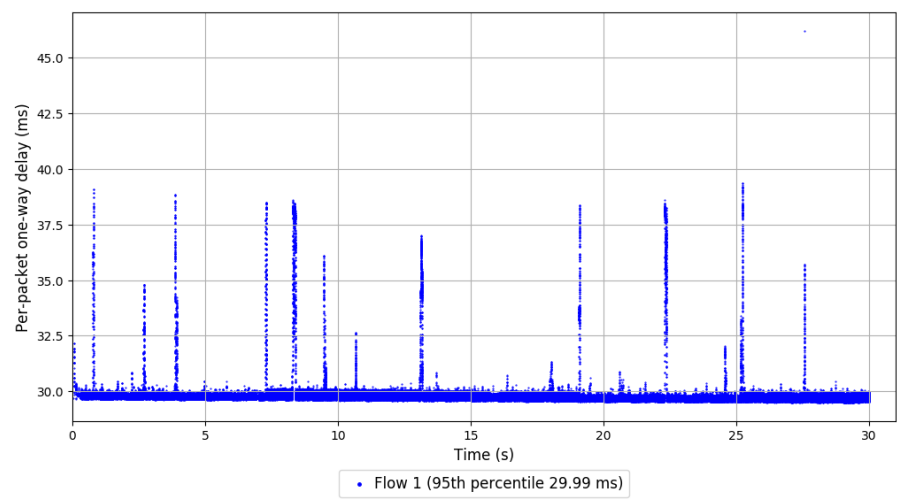
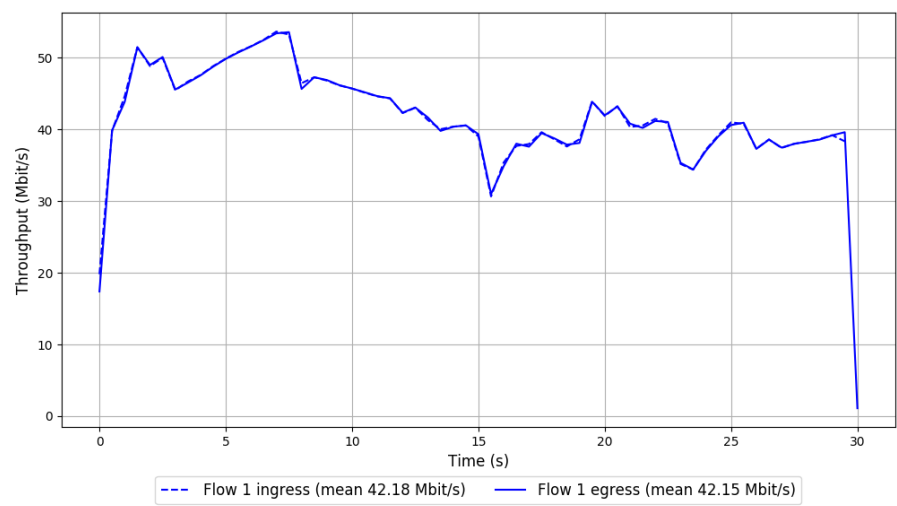
-- Flow 1:

Average throughput: 42.15 Mbit/s

95th percentile per-packet one-way delay: 29.991 ms

Loss rate: 0.07%

Run 1: Report of Copa — Data Link

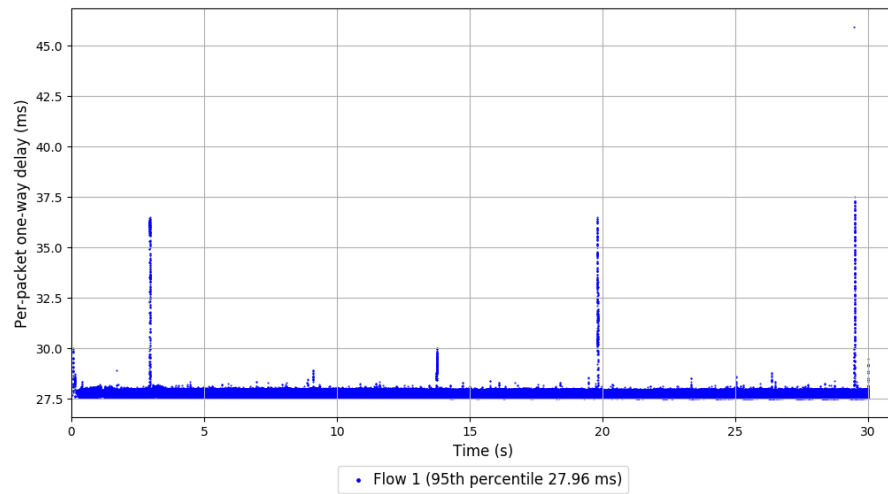
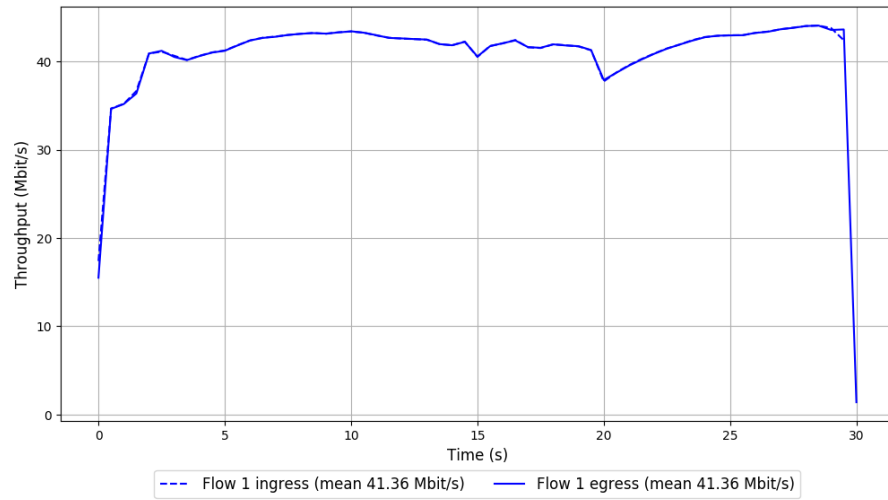


Run 2: Statistics of Copa

Start at: 2018-02-13 02:18:24
End at: 2018-02-13 02:18:54
Local clock offset: 0.493 ms
Remote clock offset: -6.835 ms

Below is generated by plot.py at 2018-02-13 06:52:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 41.36 Mbit/s
95th percentile per-packet one-way delay: 27.959 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.36 Mbit/s
95th percentile per-packet one-way delay: 27.959 ms
Loss rate: 0.00%

Run 2: Report of Copa — Data Link

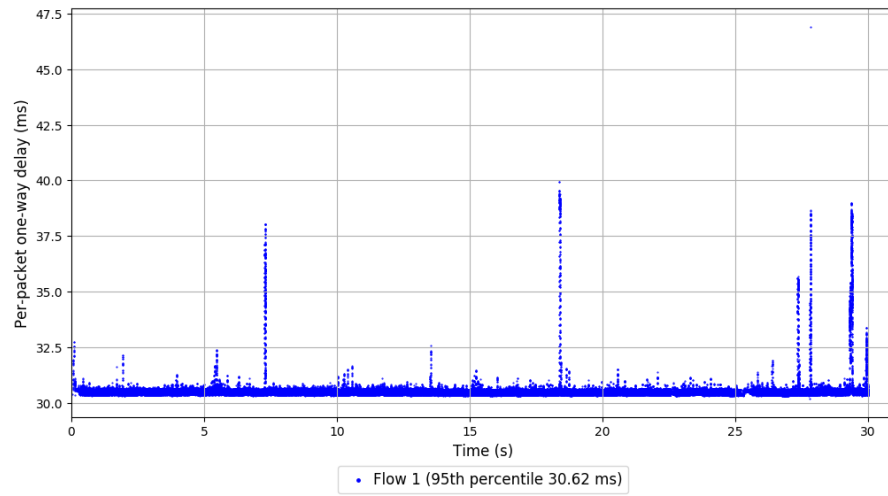
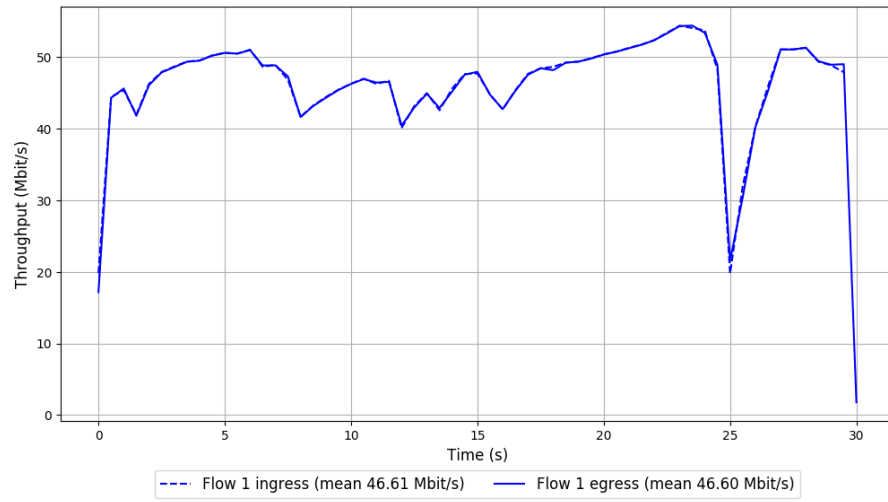


Run 3: Statistics of Copa

Start at: 2018-02-13 02:43:28
End at: 2018-02-13 02:43:58
Local clock offset: 0.339 ms
Remote clock offset: -4.495 ms

Below is generated by plot.py at 2018-02-13 06:52:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 46.60 Mbit/s
95th percentile per-packet one-way delay: 30.618 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 46.60 Mbit/s
95th percentile per-packet one-way delay: 30.618 ms
Loss rate: 0.02%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-13 03:08:05

End at: 2018-02-13 03:08:35

Local clock offset: 0.118 ms

Remote clock offset: -3.11 ms

Below is generated by plot.py at 2018-02-13 06:52:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.14 Mbit/s

95th percentile per-packet one-way delay: 30.943 ms

Loss rate: 0.01%

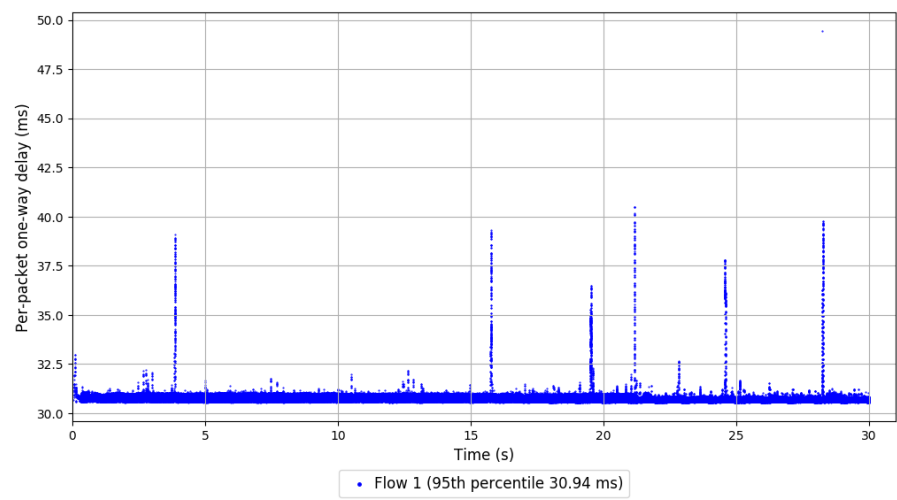
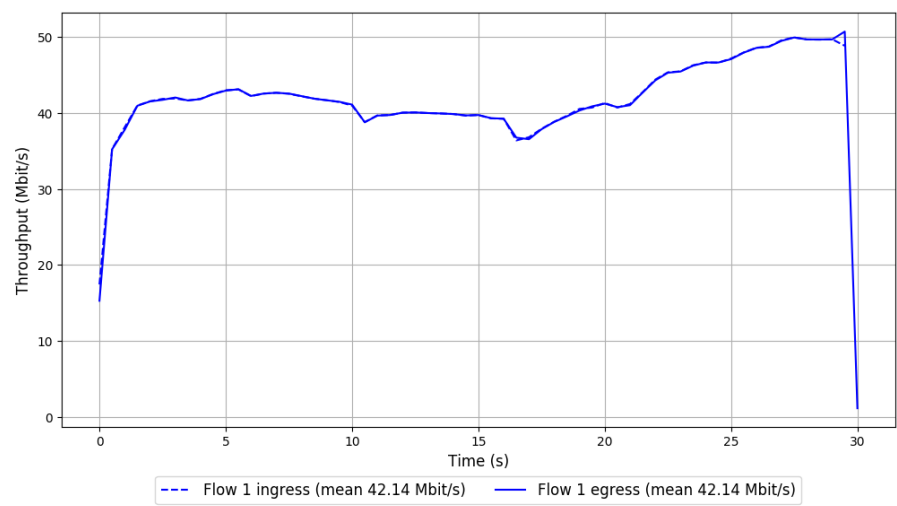
-- Flow 1:

Average throughput: 42.14 Mbit/s

95th percentile per-packet one-way delay: 30.943 ms

Loss rate: 0.01%

Run 4: Report of Copa — Data Link

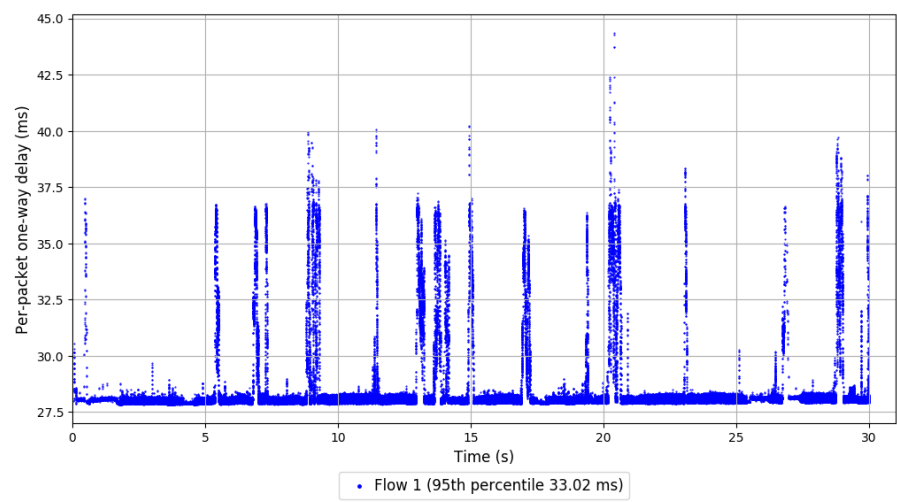
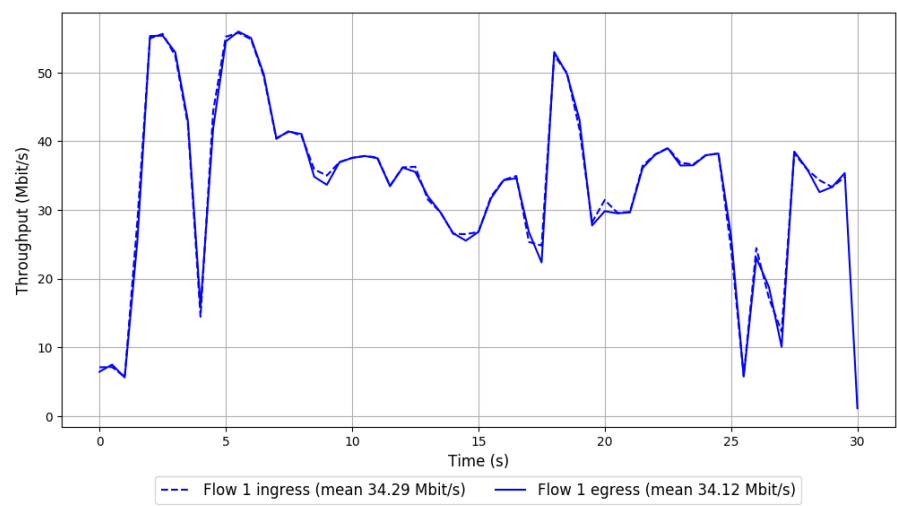


Run 5: Statistics of Copa

Start at: 2018-02-13 03:33:05
End at: 2018-02-13 03:33:35
Local clock offset: 0.052 ms
Remote clock offset: -4.714 ms

Below is generated by plot.py at 2018-02-13 06:52:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 34.12 Mbit/s
95th percentile per-packet one-way delay: 33.024 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 34.12 Mbit/s
95th percentile per-packet one-way delay: 33.024 ms
Loss rate: 0.48%

Run 5: Report of Copa — Data Link

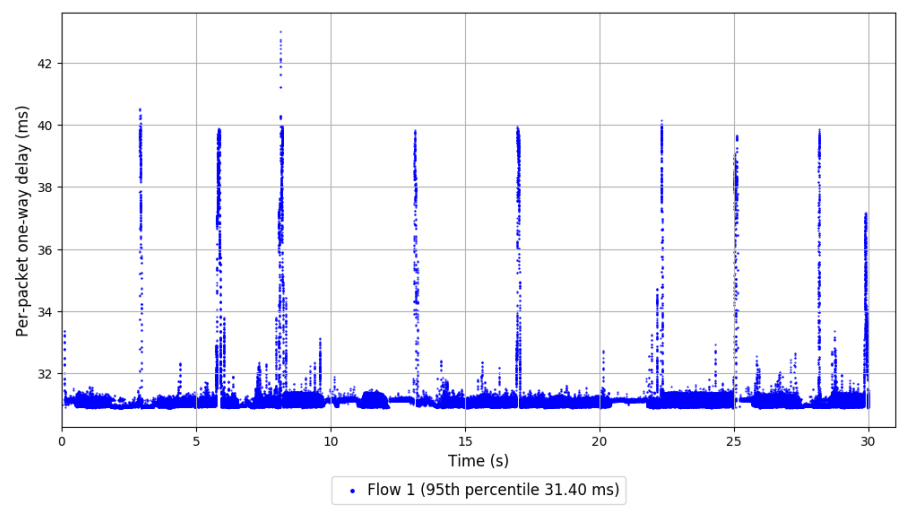
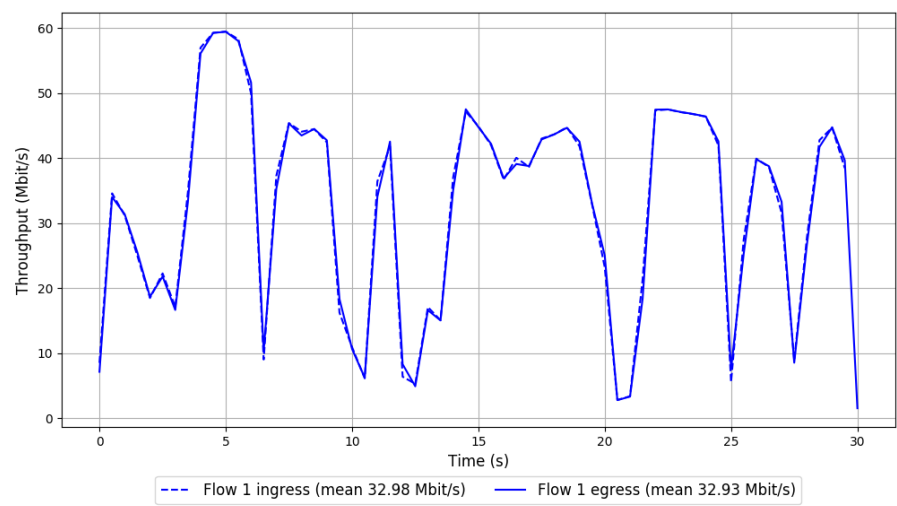


Run 6: Statistics of Copa

Start at: 2018-02-13 04:00:04
End at: 2018-02-13 04:00:34
Local clock offset: 0.861 ms
Remote clock offset: -3.533 ms

Below is generated by plot.py at 2018-02-13 06:52:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 32.93 Mbit/s
95th percentile per-packet one-way delay: 31.402 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 32.93 Mbit/s
95th percentile per-packet one-way delay: 31.402 ms
Loss rate: 0.15%

Run 6: Report of Copa — Data Link

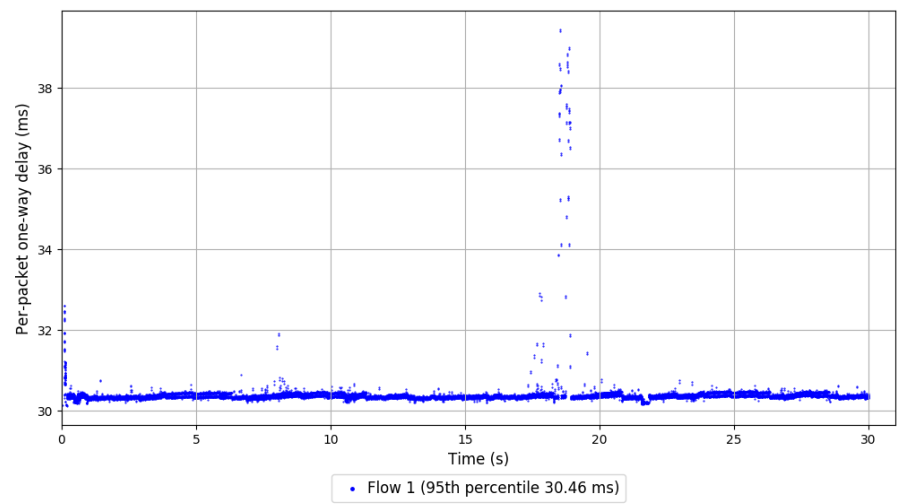
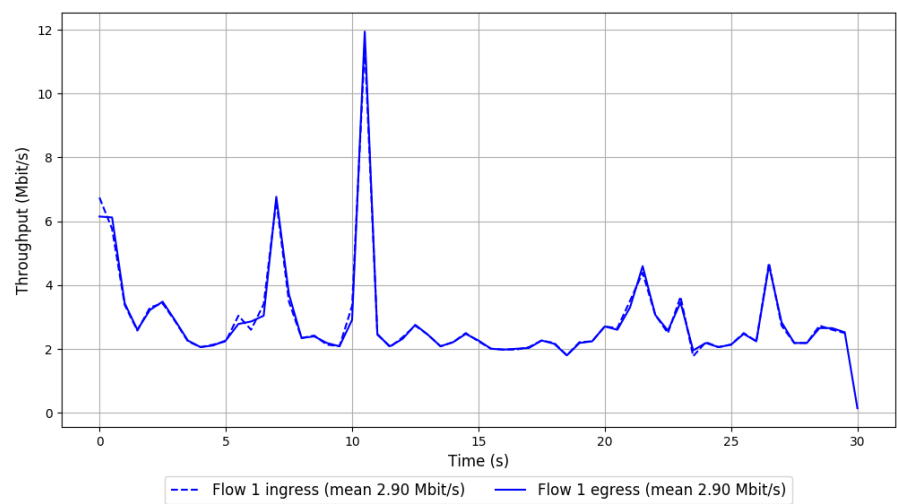


Run 7: Statistics of Copa

Start at: 2018-02-13 04:29:30
End at: 2018-02-13 04:30:00
Local clock offset: 0.341 ms
Remote clock offset: -6.174 ms

Below is generated by plot.py at 2018-02-13 06:52:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.90 Mbit/s
95th percentile per-packet one-way delay: 30.461 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 2.90 Mbit/s
95th percentile per-packet one-way delay: 30.461 ms
Loss rate: 0.03%

Run 7: Report of Copa — Data Link

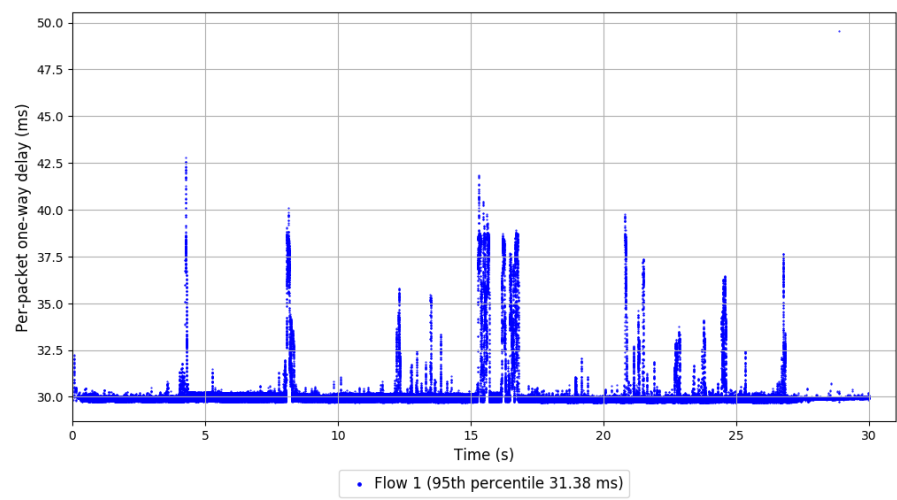
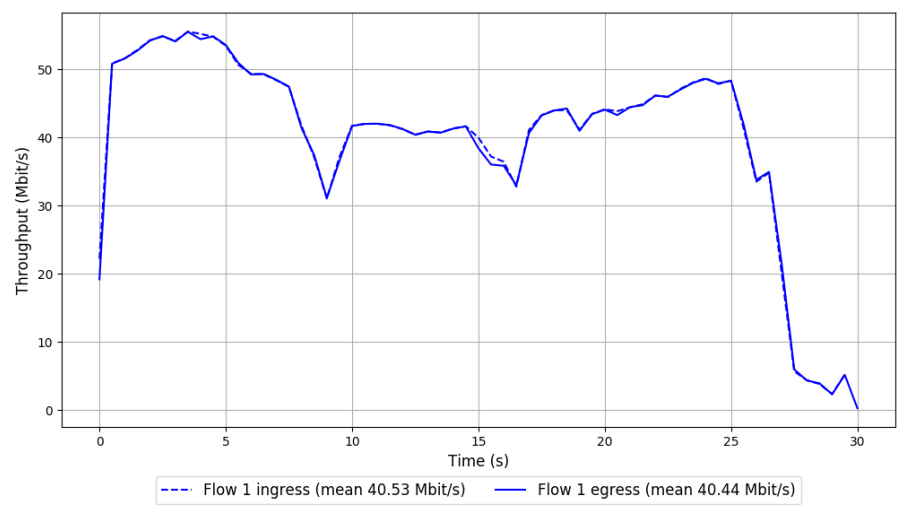


Run 8: Statistics of Copa

Start at: 2018-02-13 04:54:53
End at: 2018-02-13 04:55:23
Local clock offset: -0.96 ms
Remote clock offset: -6.652 ms

Below is generated by plot.py at 2018-02-13 06:52:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 40.44 Mbit/s
95th percentile per-packet one-way delay: 31.376 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 40.44 Mbit/s
95th percentile per-packet one-way delay: 31.376 ms
Loss rate: 0.24%

Run 8: Report of Copa — Data Link

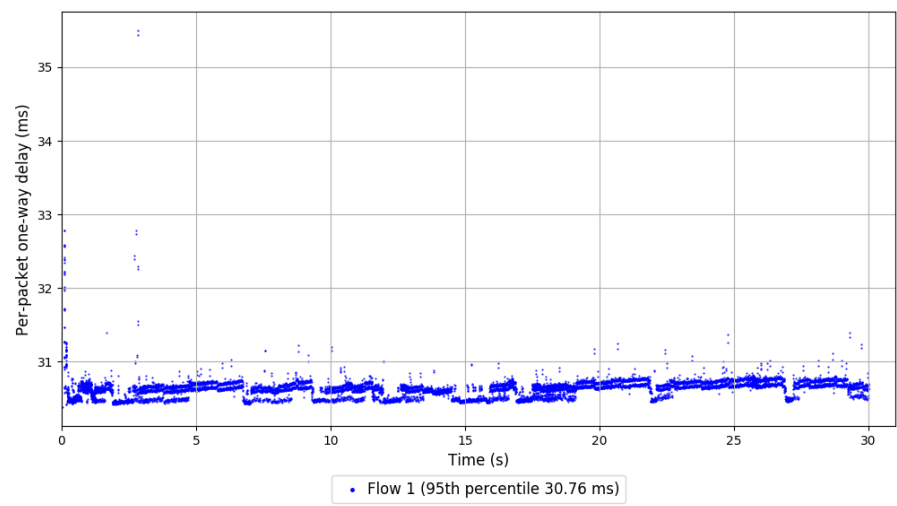
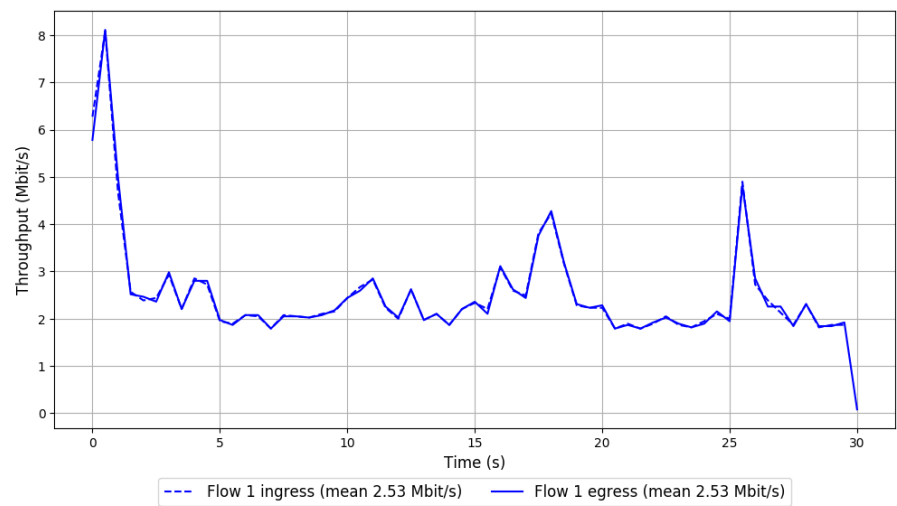


Run 9: Statistics of Copa

Start at: 2018-02-13 05:25:26
End at: 2018-02-13 05:25:56
Local clock offset: -1.671 ms
Remote clock offset: -7.935 ms

Below is generated by plot.py at 2018-02-13 06:52:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.53 Mbit/s
95th percentile per-packet one-way delay: 30.761 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.53 Mbit/s
95th percentile per-packet one-way delay: 30.761 ms
Loss rate: 0.00%

Run 9: Report of Copa — Data Link

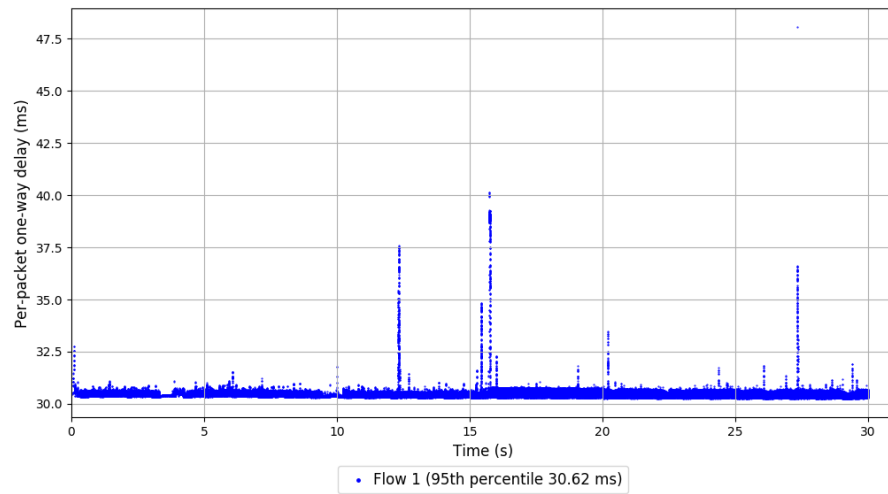
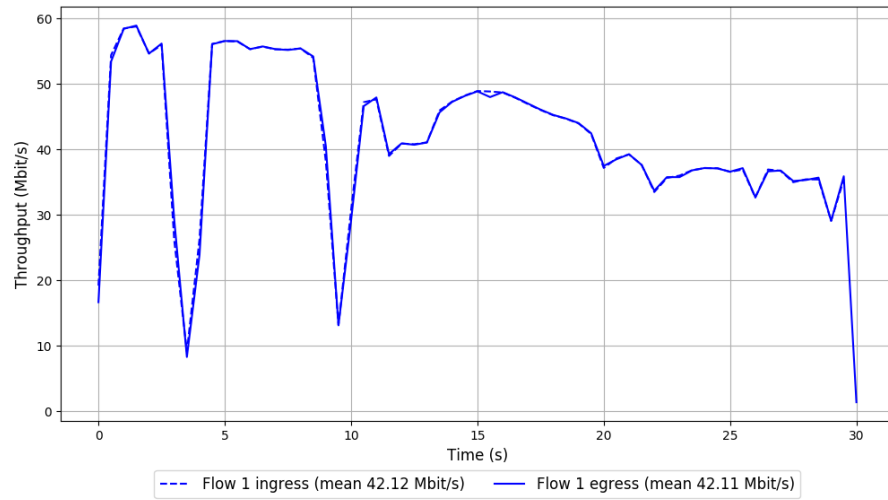


Run 10: Statistics of Copa

Start at: 2018-02-13 05:52:12
End at: 2018-02-13 05:52:42
Local clock offset: -1.452 ms
Remote clock offset: -7.049 ms

Below is generated by plot.py at 2018-02-13 06:52:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 42.11 Mbit/s
95th percentile per-packet one-way delay: 30.616 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 42.11 Mbit/s
95th percentile per-packet one-way delay: 30.616 ms
Loss rate: 0.04%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-02-13 01:59:53

End at: 2018-02-13 02:00:23

Local clock offset: 1.244 ms

Remote clock offset: -6.379 ms

Below is generated by plot.py at 2018-02-13 06:53:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.37 Mbit/s

95th percentile per-packet one-way delay: 68.509 ms

Loss rate: 23.07%

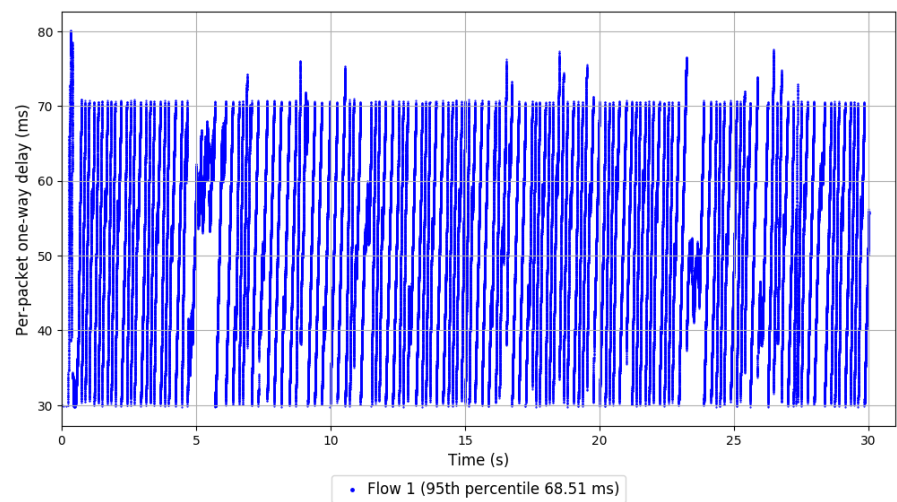
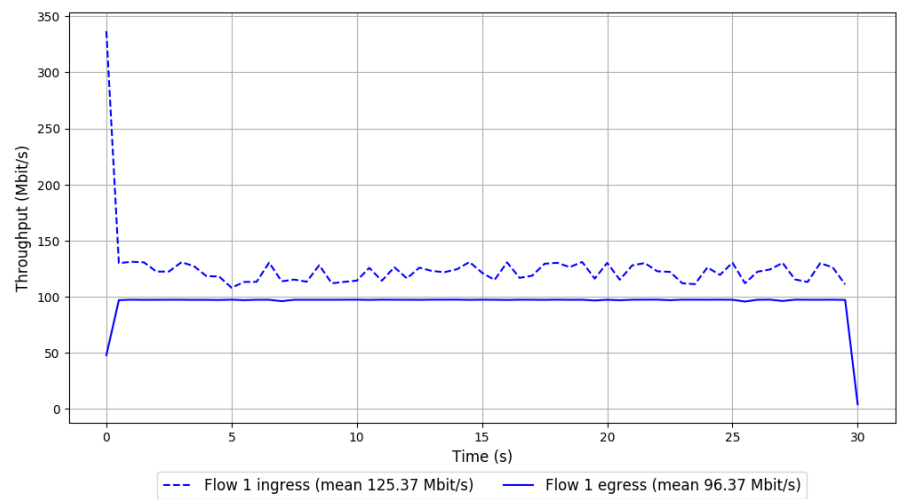
-- Flow 1:

Average throughput: 96.37 Mbit/s

95th percentile per-packet one-way delay: 68.509 ms

Loss rate: 23.07%

Run 1: Report of FillP — Data Link

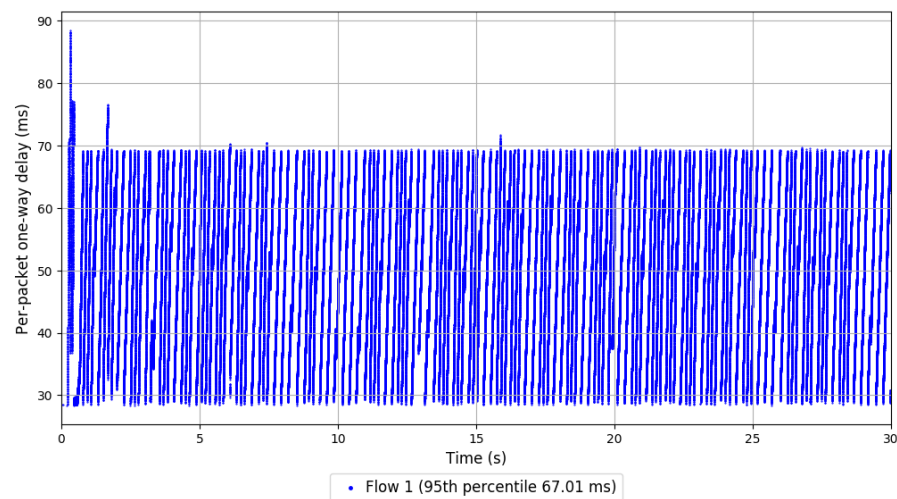
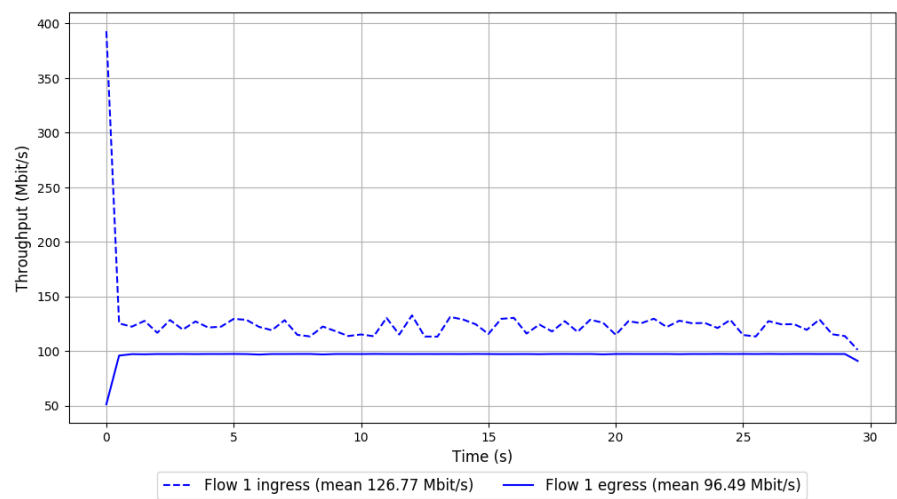


Run 2: Statistics of FillP

Start at: 2018-02-13 02:25:18
End at: 2018-02-13 02:25:48
Local clock offset: 0.379 ms
Remote clock offset: -6.603 ms

Below is generated by plot.py at 2018-02-13 06:53:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 67.014 ms
Loss rate: 23.89%
-- Flow 1:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 67.014 ms
Loss rate: 23.89%

Run 2: Report of FillP — Data Link

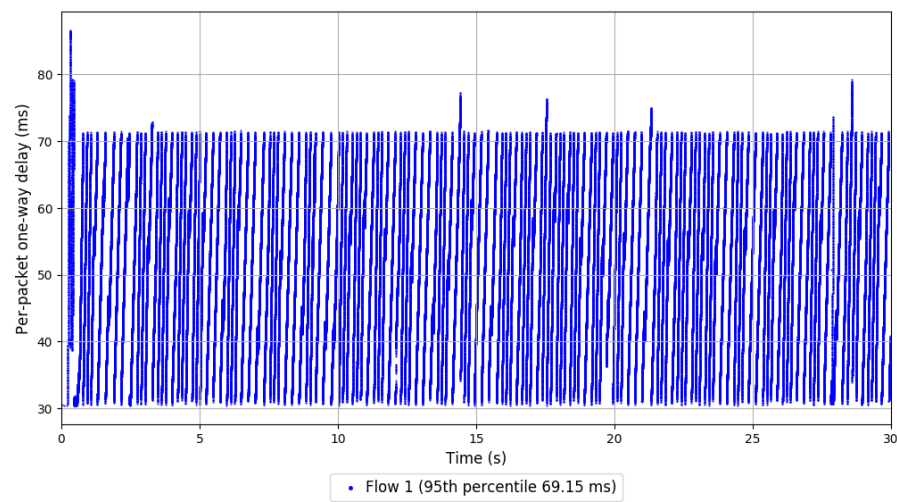
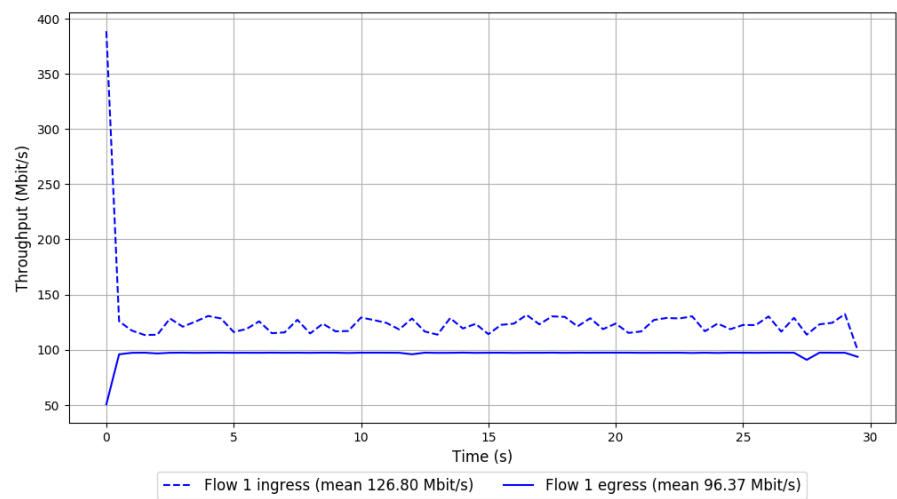


Run 3: Statistics of FillP

Start at: 2018-02-13 02:50:14
End at: 2018-02-13 02:50:44
Local clock offset: 0.24 ms
Remote clock offset: -4.353 ms

Below is generated by plot.py at 2018-02-13 06:53:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.37 Mbit/s
95th percentile per-packet one-way delay: 69.153 ms
Loss rate: 23.98%
-- Flow 1:
Average throughput: 96.37 Mbit/s
95th percentile per-packet one-way delay: 69.153 ms
Loss rate: 23.98%

Run 3: Report of FillP — Data Link

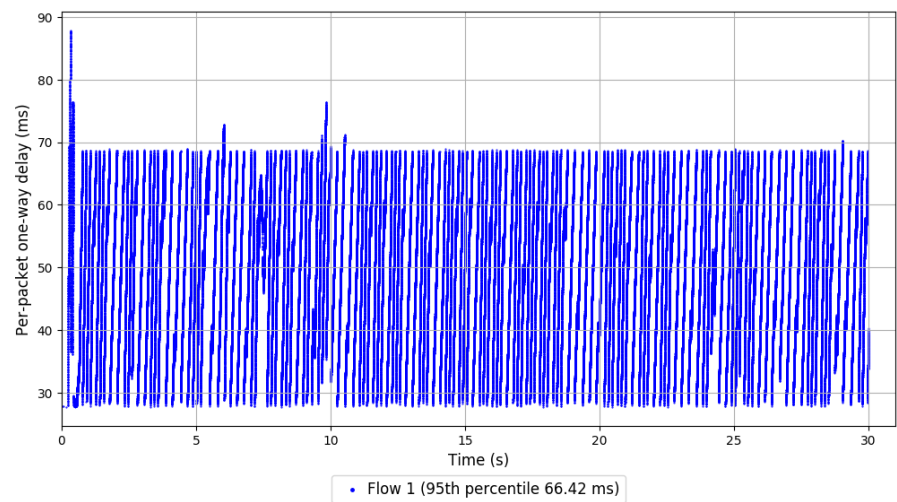
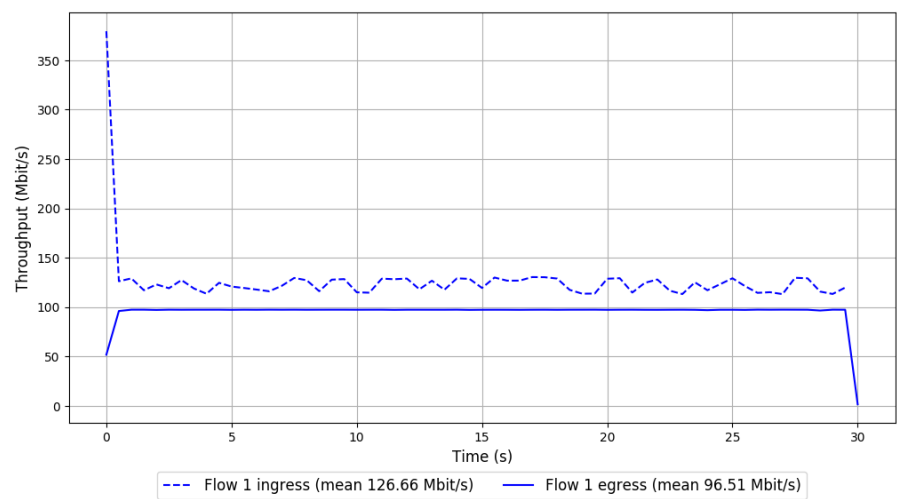


Run 4: Statistics of FillP

Start at: 2018-02-13 03:14:59
End at: 2018-02-13 03:15:29
Local clock offset: 0.216 ms
Remote clock offset: -4.836 ms

Below is generated by plot.py at 2018-02-13 06:54:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.51 Mbit/s
95th percentile per-packet one-way delay: 66.424 ms
Loss rate: 23.78%
-- Flow 1:
Average throughput: 96.51 Mbit/s
95th percentile per-packet one-way delay: 66.424 ms
Loss rate: 23.78%

Run 4: Report of FillP — Data Link

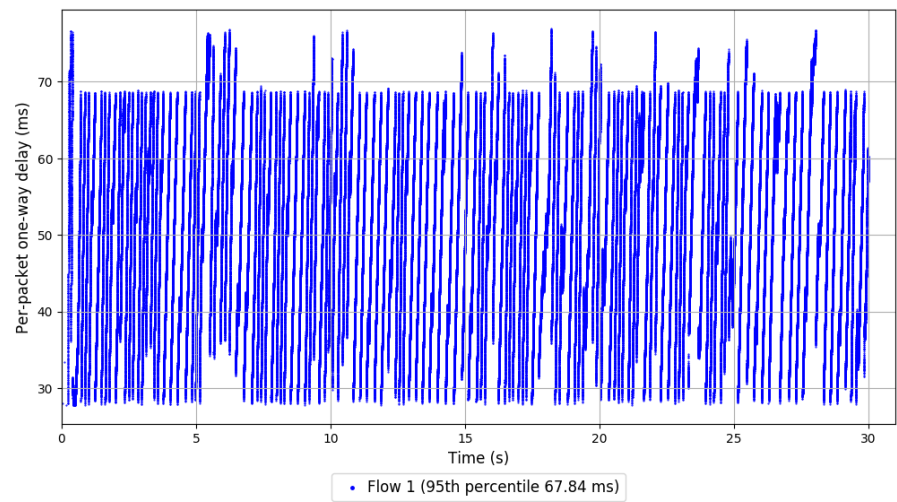
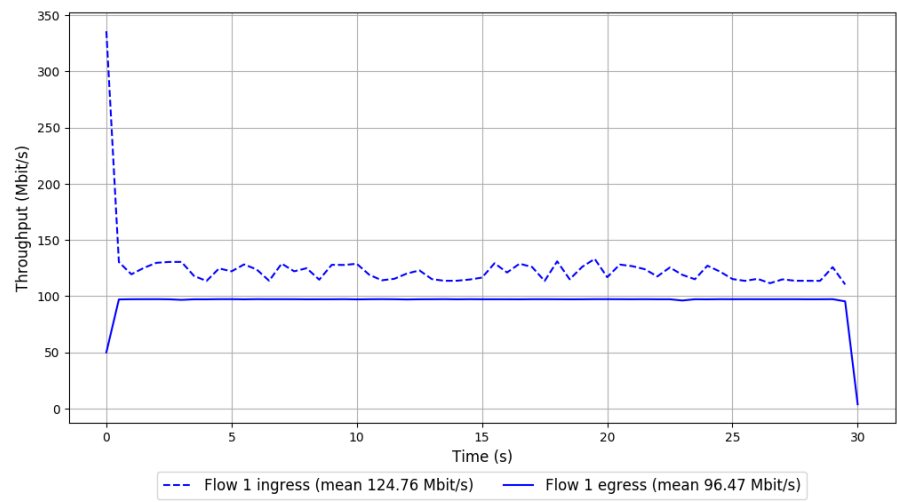


Run 5: Statistics of FillP

Start at: 2018-02-13 03:40:30
End at: 2018-02-13 03:41:00
Local clock offset: 0.369 ms
Remote clock offset: -5.536 ms

Below is generated by plot.py at 2018-02-13 06:54:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.47 Mbit/s
95th percentile per-packet one-way delay: 67.843 ms
Loss rate: 22.62%
-- Flow 1:
Average throughput: 96.47 Mbit/s
95th percentile per-packet one-way delay: 67.843 ms
Loss rate: 22.62%

Run 5: Report of FillP — Data Link

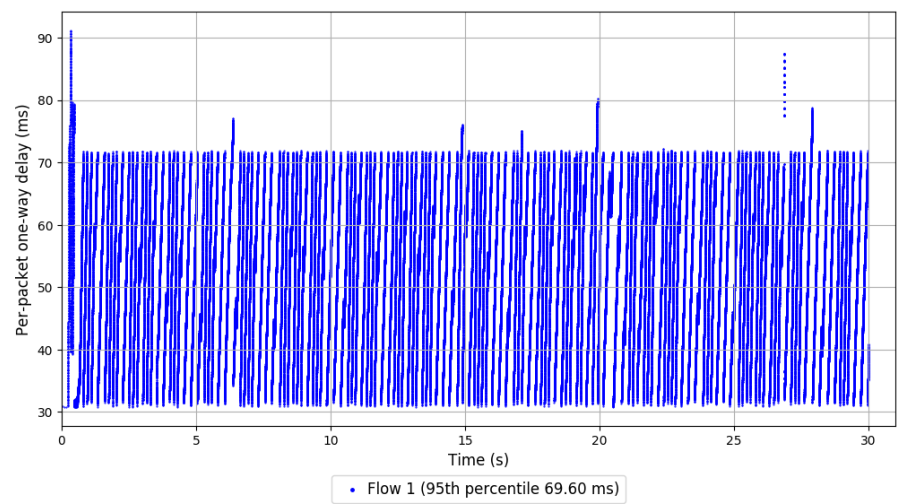
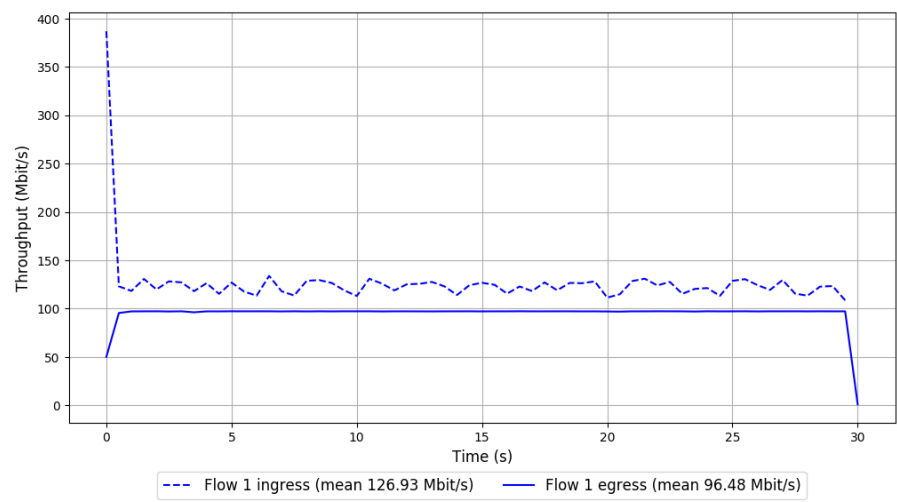


Run 6: Statistics of FillP

Start at: 2018-02-13 04:08:34
End at: 2018-02-13 04:09:04
Local clock offset: 0.905 ms
Remote clock offset: -4.314 ms

Below is generated by plot.py at 2018-02-13 06:54:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.48 Mbit/s
95th percentile per-packet one-way delay: 69.604 ms
Loss rate: 23.97%
-- Flow 1:
Average throughput: 96.48 Mbit/s
95th percentile per-packet one-way delay: 69.604 ms
Loss rate: 23.97%

Run 6: Report of FillP — Data Link

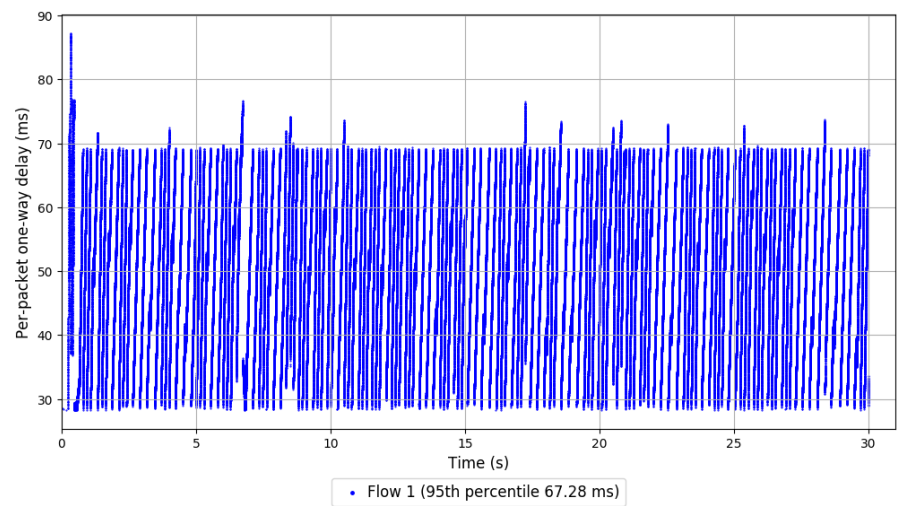
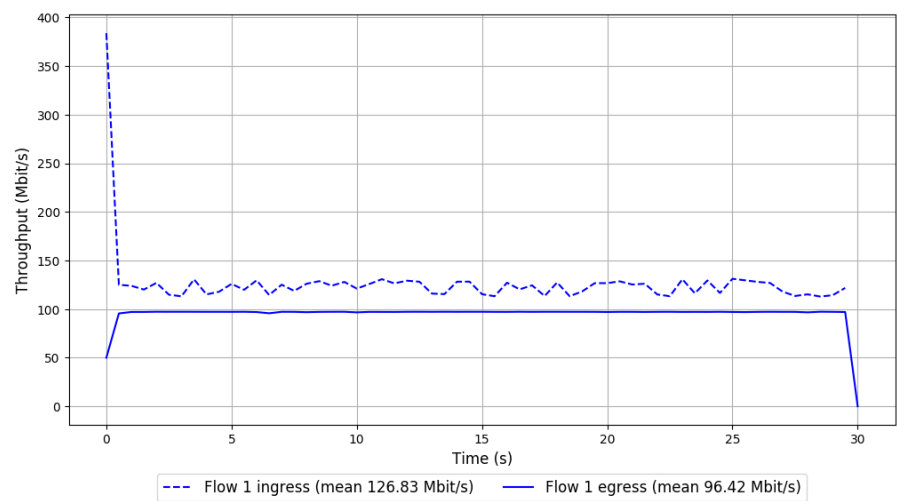


Run 7: Statistics of FillP

Start at: 2018-02-13 04:37:05
End at: 2018-02-13 04:37:35
Local clock offset: 0.288 ms
Remote clock offset: -9.354 ms

Below is generated by plot.py at 2018-02-13 06:54:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.42 Mbit/s
95th percentile per-packet one-way delay: 67.282 ms
Loss rate: 23.96%
-- Flow 1:
Average throughput: 96.42 Mbit/s
95th percentile per-packet one-way delay: 67.282 ms
Loss rate: 23.96%

Run 7: Report of FillP — Data Link

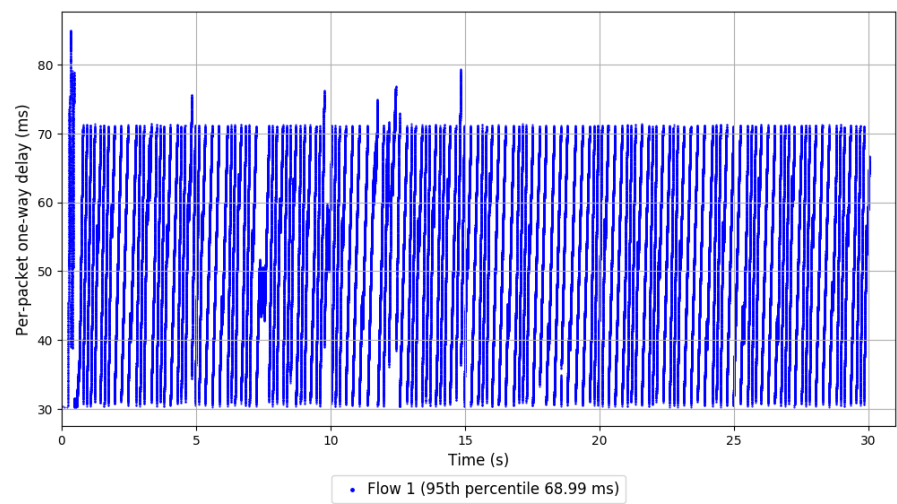
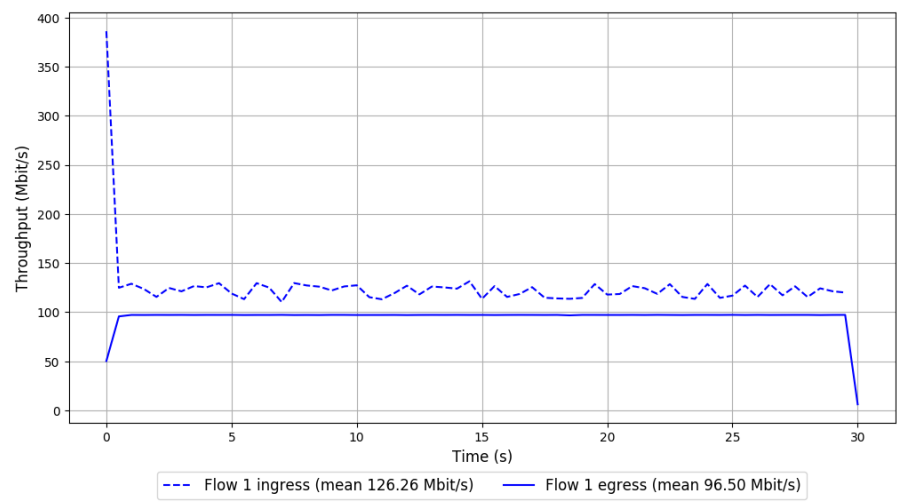


Run 8: Statistics of FillP

Start at: 2018-02-13 05:02:17
End at: 2018-02-13 05:02:47
Local clock offset: -1.439 ms
Remote clock offset: -6.646 ms

Below is generated by plot.py at 2018-02-13 06:54:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.50 Mbit/s
95th percentile per-packet one-way delay: 68.994 ms
Loss rate: 23.48%
-- Flow 1:
Average throughput: 96.50 Mbit/s
95th percentile per-packet one-way delay: 68.994 ms
Loss rate: 23.48%

Run 8: Report of FillP — Data Link

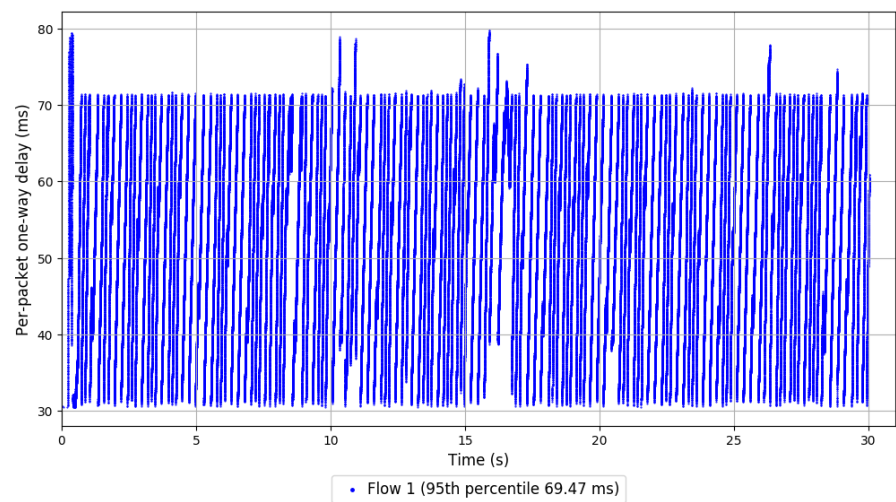
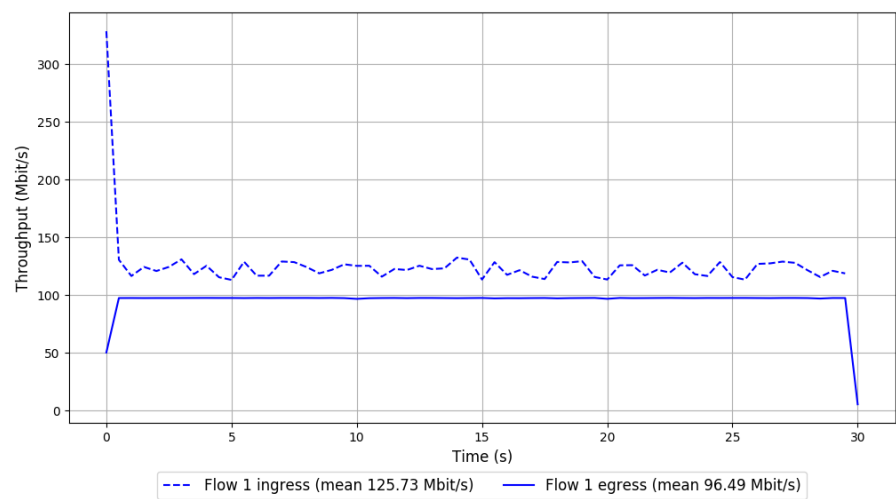


Run 9: Statistics of FillP

Start at: 2018-02-13 05:33:20
End at: 2018-02-13 05:33:50
Local clock offset: -1.466 ms
Remote clock offset: -8.132 ms

Below is generated by plot.py at 2018-02-13 06:55:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 69.475 ms
Loss rate: 23.18%
-- Flow 1:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 69.475 ms
Loss rate: 23.18%

Run 9: Report of FillP — Data Link

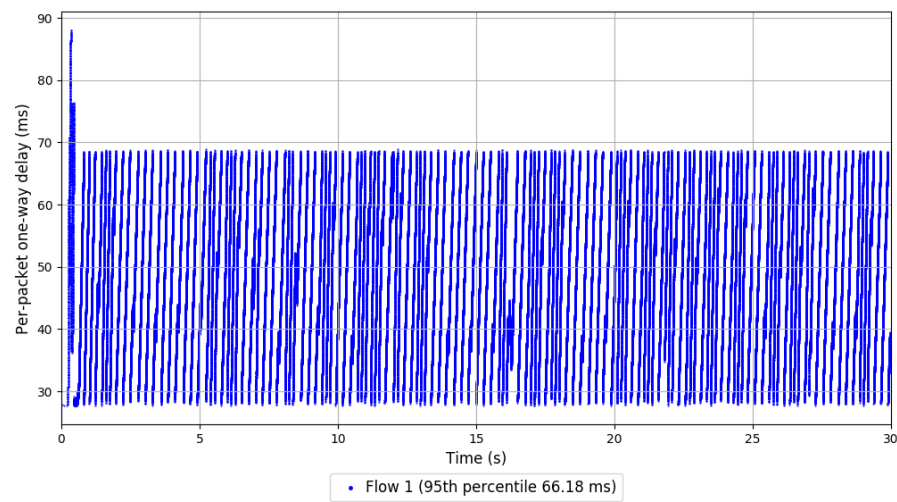
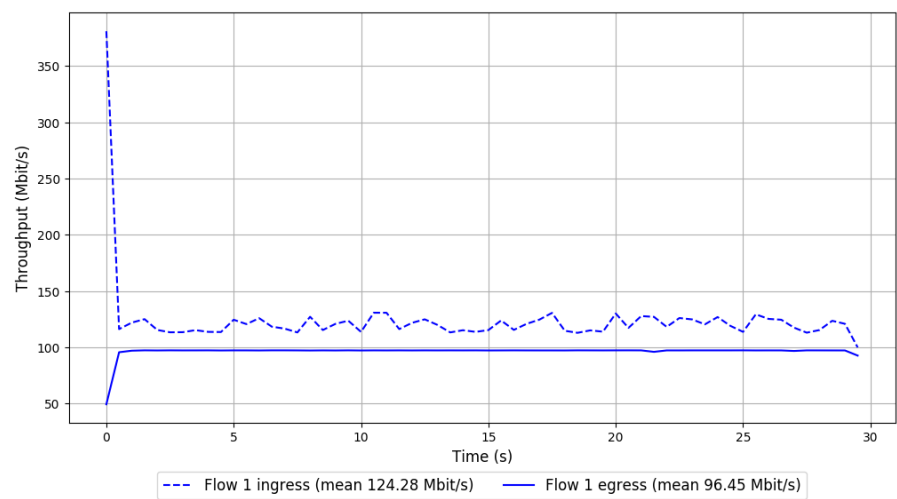


Run 10: Statistics of FillP

Start at: 2018-02-13 05:59:10
End at: 2018-02-13 05:59:40
Local clock offset: -1.209 ms
Remote clock offset: -8.005 ms

Below is generated by plot.py at 2018-02-13 06:55:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.45 Mbit/s
95th percentile per-packet one-way delay: 66.178 ms
Loss rate: 22.36%
-- Flow 1:
Average throughput: 96.45 Mbit/s
95th percentile per-packet one-way delay: 66.178 ms
Loss rate: 22.36%

Run 10: Report of FillP — Data Link

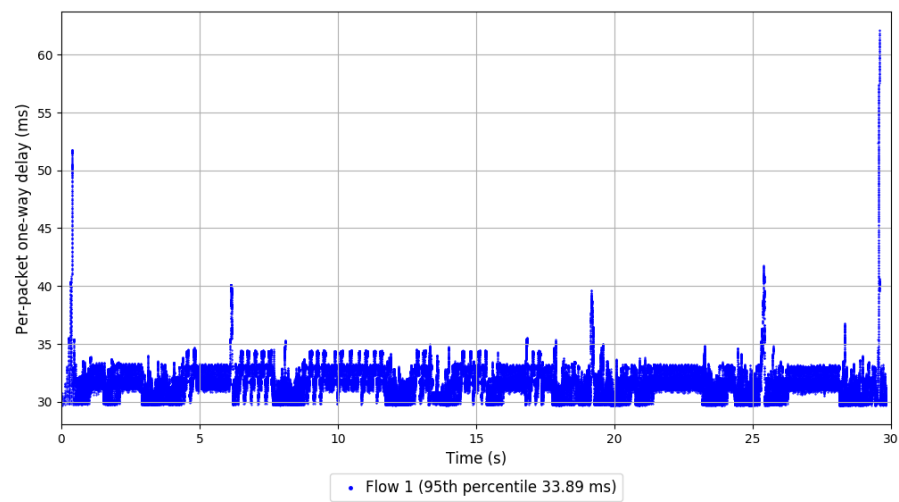
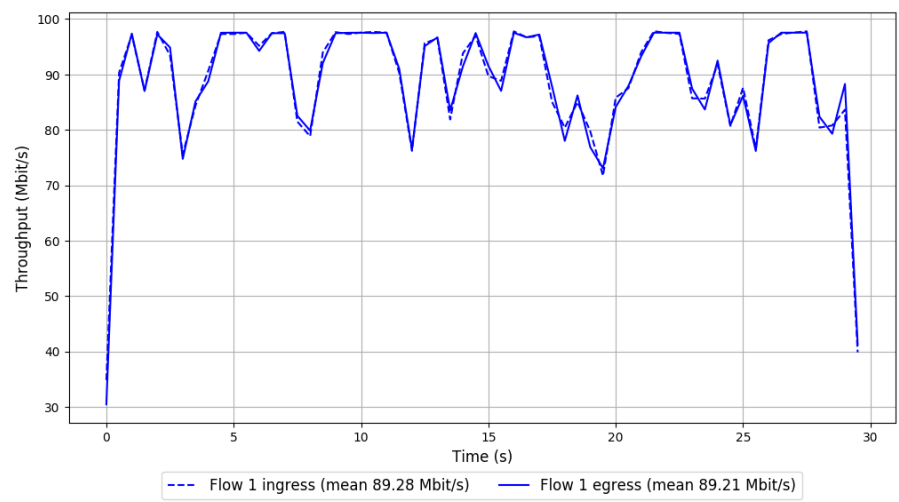


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-13 02:05:31
End at: 2018-02-13 02:06:01
Local clock offset: 0.835 ms
Remote clock offset: -5.779 ms

# Below is generated by plot.py at 2018-02-13 06:55:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.21 Mbit/s
95th percentile per-packet one-way delay: 33.891 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 89.21 Mbit/s
95th percentile per-packet one-way delay: 33.891 ms
Loss rate: 0.08%
```

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

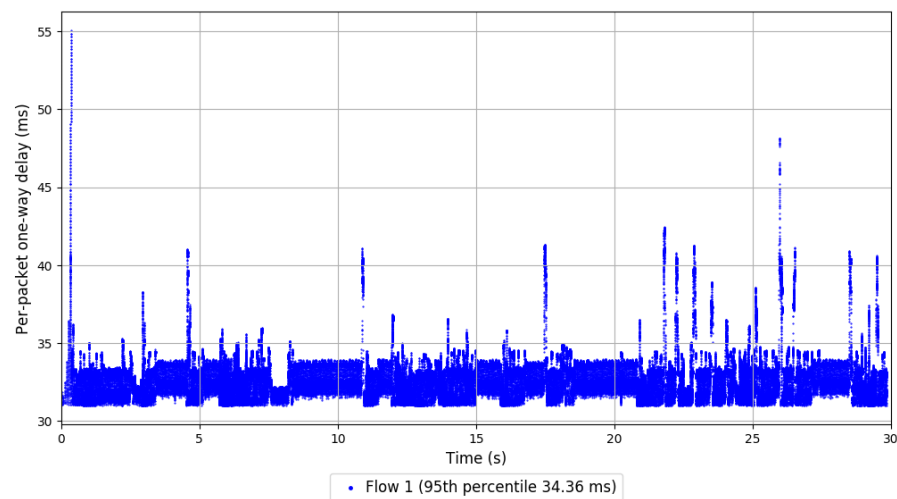
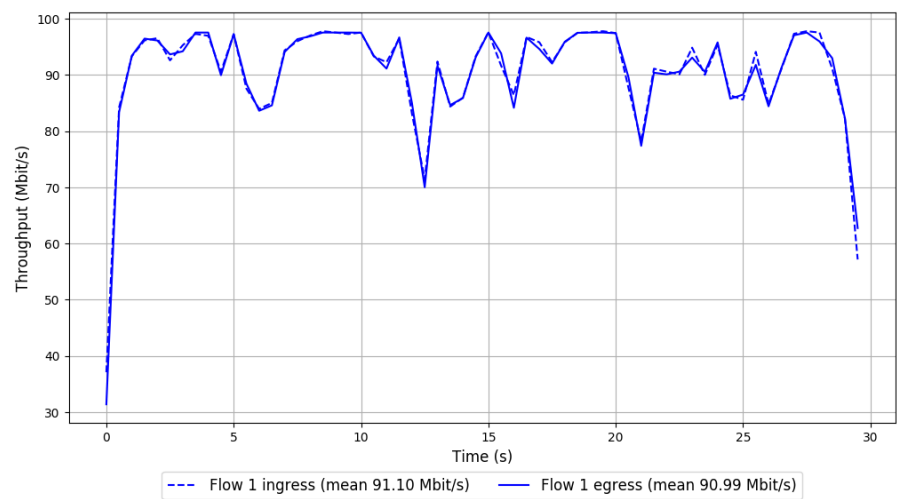


Run 2: Statistics of Indigo-1-32

Start at: 2018-02-13 02:30:47
End at: 2018-02-13 02:31:17
Local clock offset: 0.338 ms
Remote clock offset: -4.052 ms

Below is generated by plot.py at 2018-02-13 06:55:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.99 Mbit/s
95th percentile per-packet one-way delay: 34.361 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 90.99 Mbit/s
95th percentile per-packet one-way delay: 34.361 ms
Loss rate: 0.12%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-13 02:55:44

End at: 2018-02-13 02:56:14

Local clock offset: 0.162 ms

Remote clock offset: -3.684 ms

Below is generated by plot.py at 2018-02-13 06:55:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.92 Mbit/s

95th percentile per-packet one-way delay: 34.774 ms

Loss rate: 0.08%

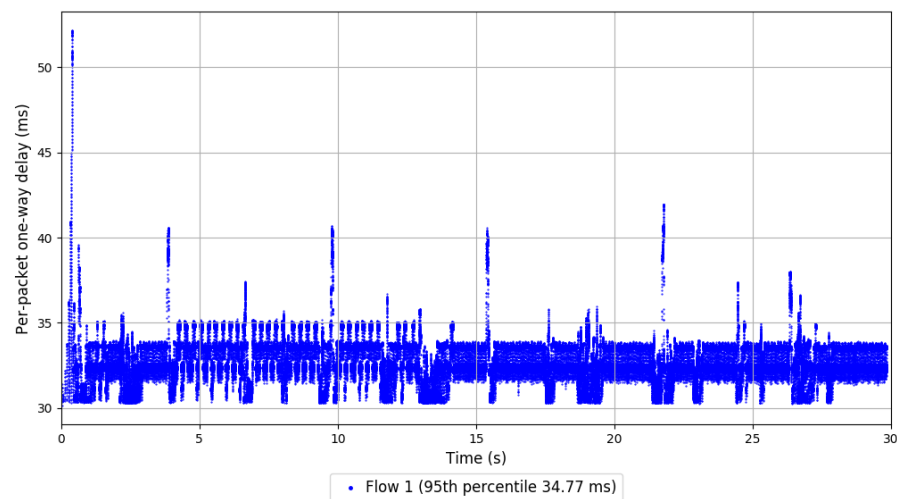
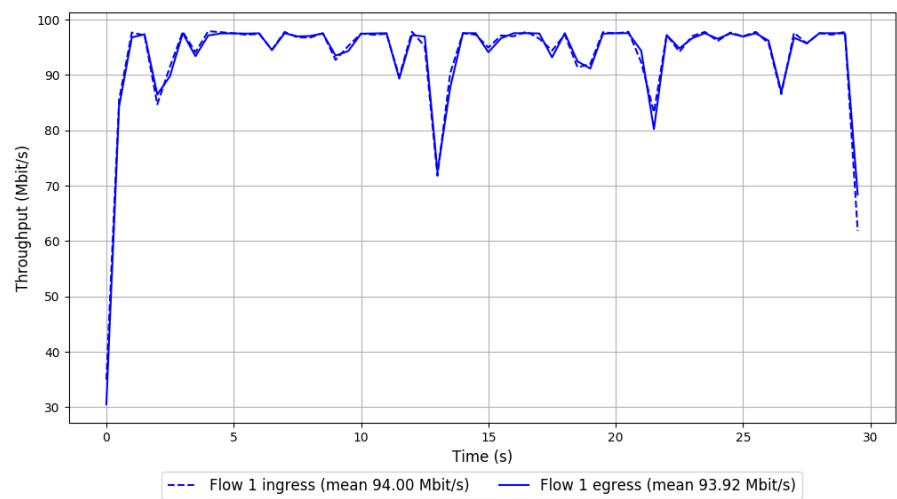
-- Flow 1:

Average throughput: 93.92 Mbit/s

95th percentile per-packet one-way delay: 34.774 ms

Loss rate: 0.08%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-13 03:20:30

End at: 2018-02-13 03:21:00

Local clock offset: 0.33 ms

Remote clock offset: -2.208 ms

Below is generated by plot.py at 2018-02-13 06:55:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.54 Mbit/s

95th percentile per-packet one-way delay: 34.630 ms

Loss rate: 0.21%

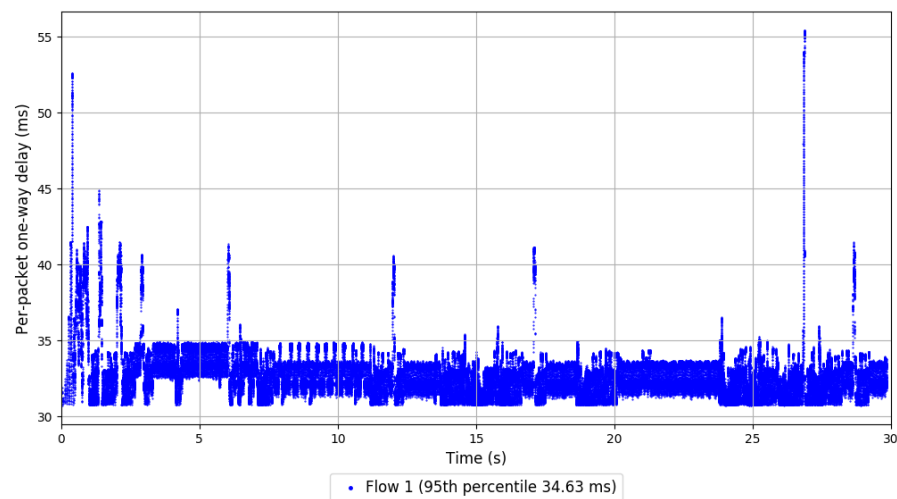
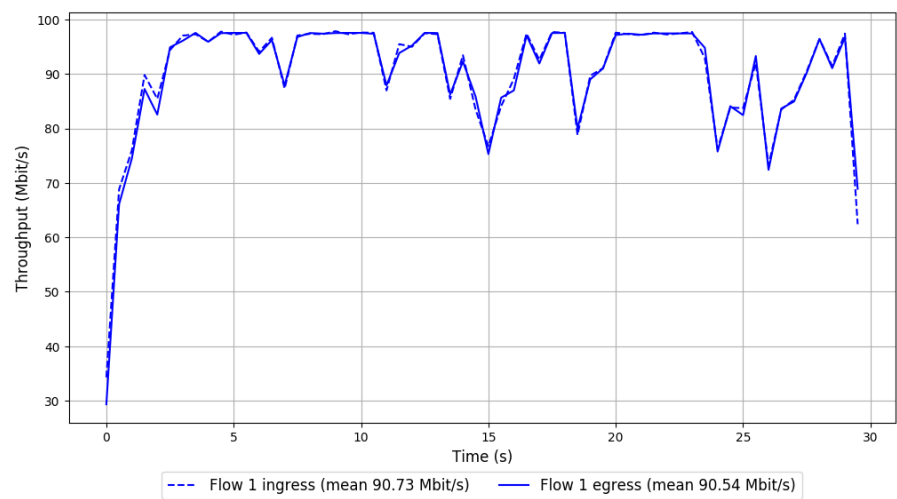
-- Flow 1:

Average throughput: 90.54 Mbit/s

95th percentile per-packet one-way delay: 34.630 ms

Loss rate: 0.21%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-13 03:46:56

End at: 2018-02-13 03:47:26

Local clock offset: 0.651 ms

Remote clock offset: -3.877 ms

Below is generated by plot.py at 2018-02-13 06:55:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.63 Mbit/s

95th percentile per-packet one-way delay: 33.255 ms

Loss rate: 0.23%

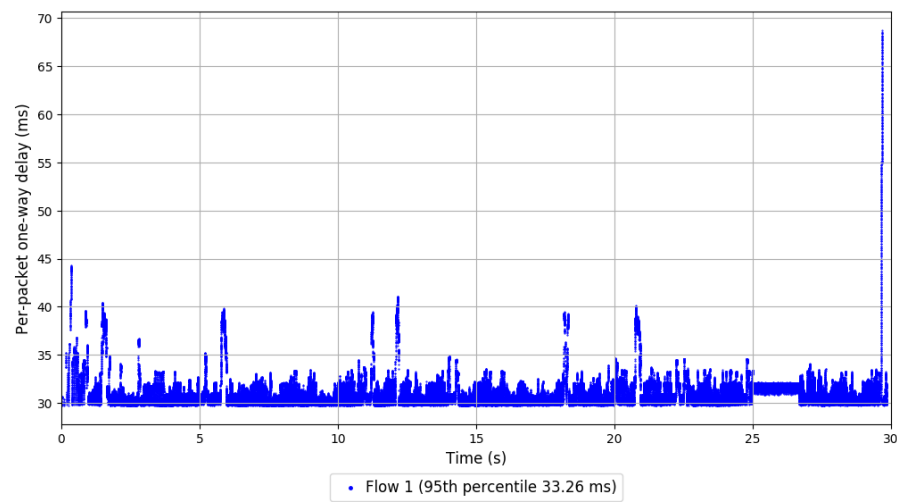
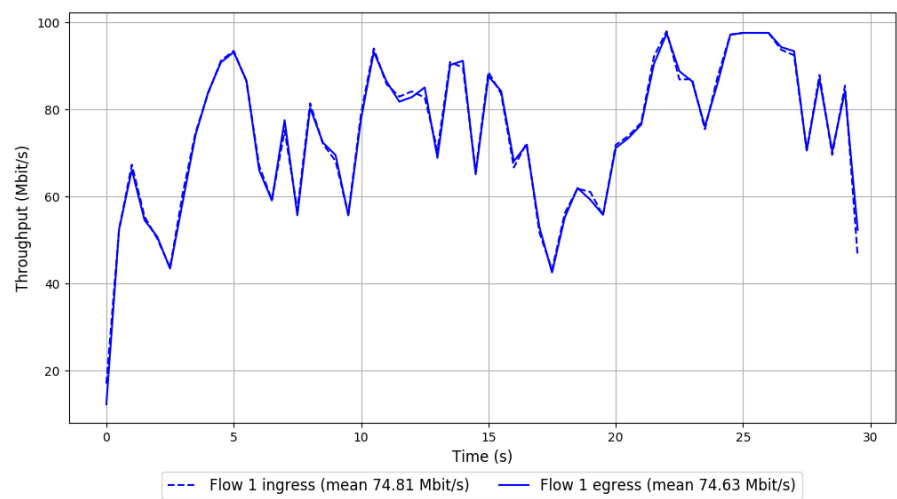
-- Flow 1:

Average throughput: 74.63 Mbit/s

95th percentile per-packet one-way delay: 33.255 ms

Loss rate: 0.23%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-13 04:14:59

End at: 2018-02-13 04:15:29

Local clock offset: 0.732 ms

Remote clock offset: -5.304 ms

Below is generated by plot.py at 2018-02-13 06:55:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.23 Mbit/s

95th percentile per-packet one-way delay: 33.051 ms

Loss rate: 0.66%

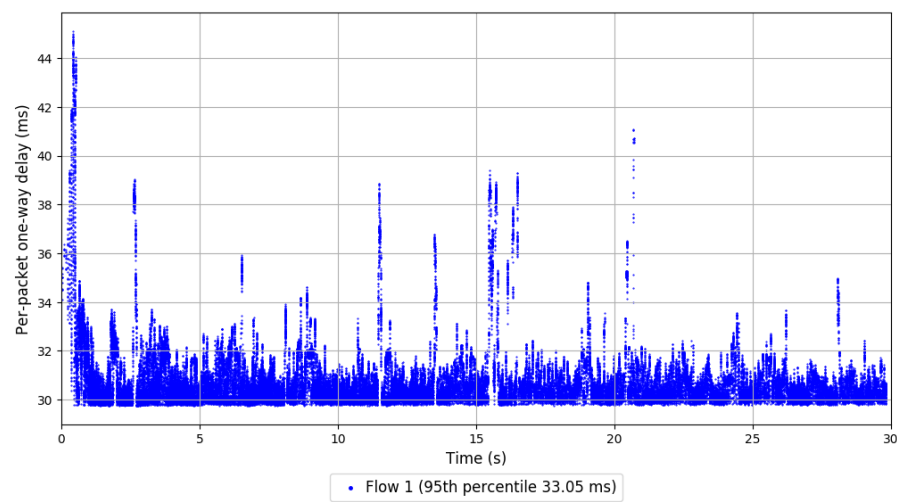
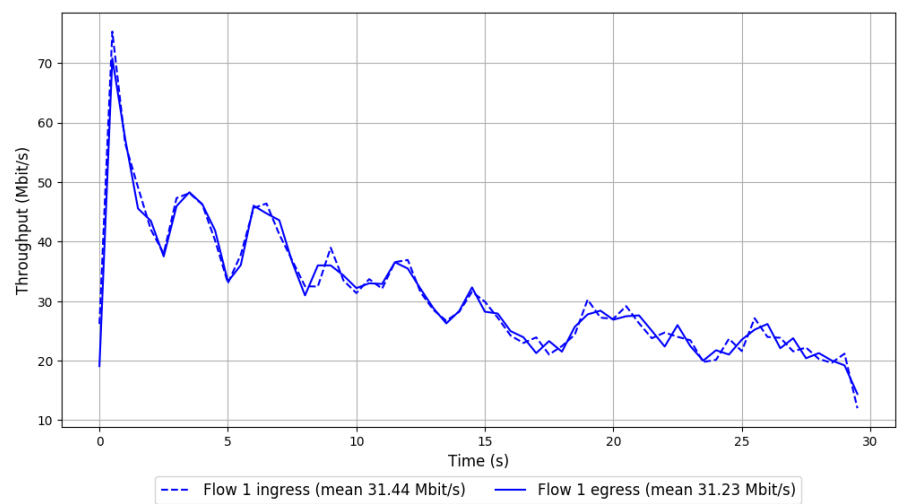
-- Flow 1:

Average throughput: 31.23 Mbit/s

95th percentile per-packet one-way delay: 33.051 ms

Loss rate: 0.66%

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

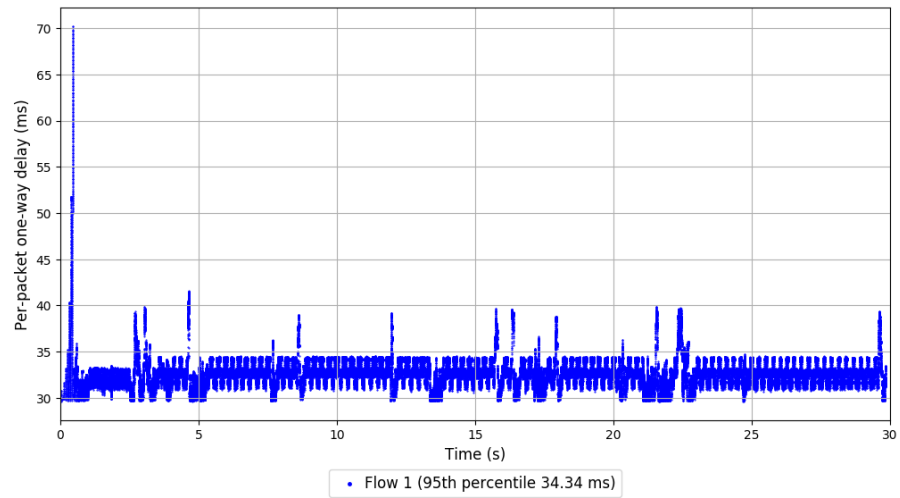
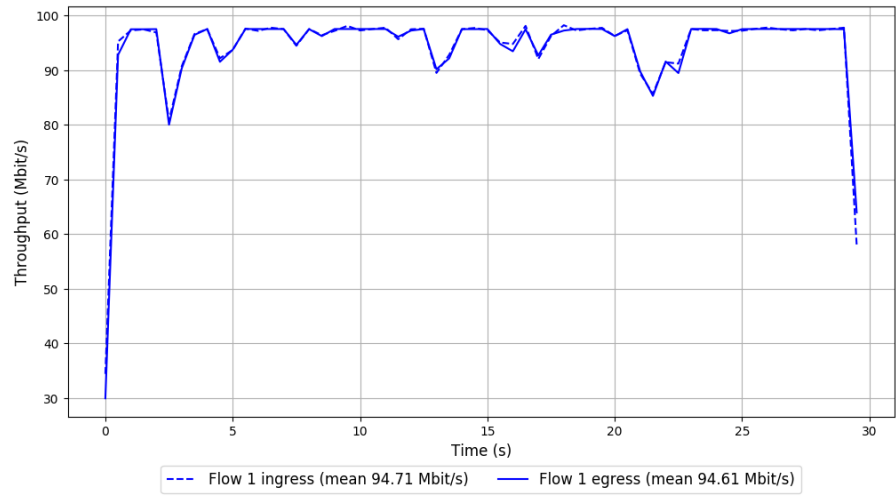


Run 7: Statistics of Indigo-1-32

Start at: 2018-02-13 04:42:43
End at: 2018-02-13 04:43:13
Local clock offset: 0.262 ms
Remote clock offset: -7.081 ms

Below is generated by plot.py at 2018-02-13 06:56:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.61 Mbit/s
95th percentile per-packet one-way delay: 34.343 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 94.61 Mbit/s
95th percentile per-packet one-way delay: 34.343 ms
Loss rate: 0.09%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-13 05:08:57

End at: 2018-02-13 05:09:27

Local clock offset: -1.75 ms

Remote clock offset: -6.488 ms

Below is generated by plot.py at 2018-02-13 06:56:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.35 Mbit/s

95th percentile per-packet one-way delay: 32.891 ms

Loss rate: 0.00%

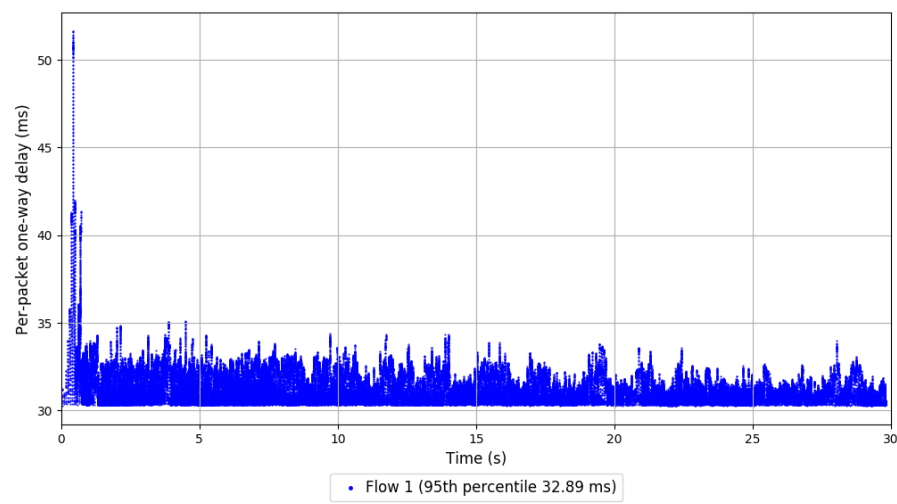
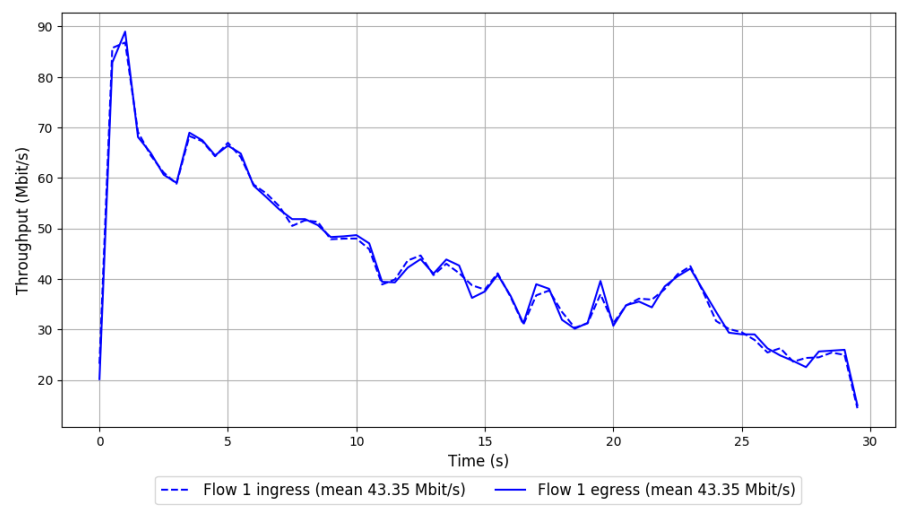
-- Flow 1:

Average throughput: 43.35 Mbit/s

95th percentile per-packet one-way delay: 32.891 ms

Loss rate: 0.00%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-13 05:39:22

End at: 2018-02-13 05:39:52

Local clock offset: -1.373 ms

Remote clock offset: -8.268 ms

Below is generated by plot.py at 2018-02-13 06:56:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.39 Mbit/s

95th percentile per-packet one-way delay: 33.076 ms

Loss rate: 0.05%

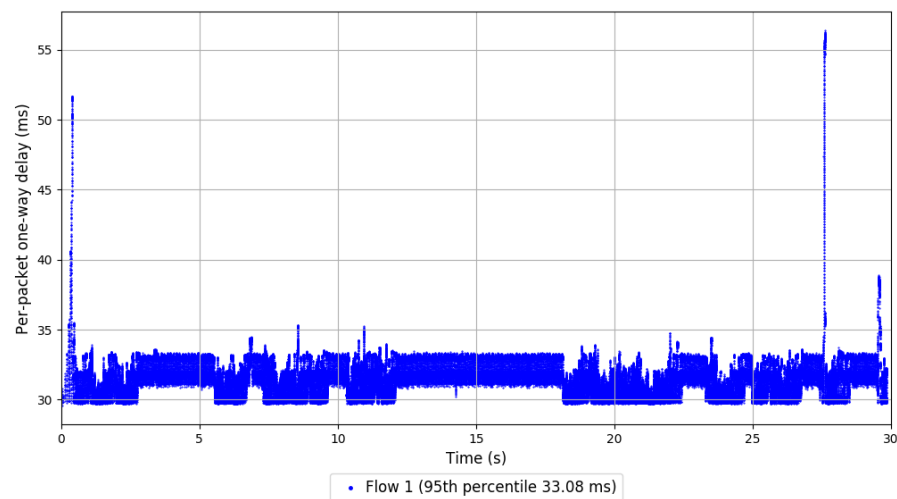
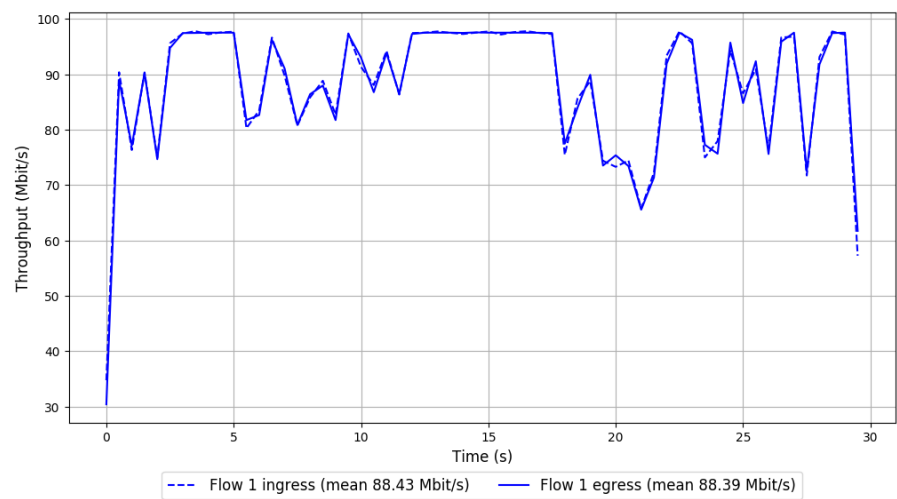
-- Flow 1:

Average throughput: 88.39 Mbit/s

95th percentile per-packet one-way delay: 33.076 ms

Loss rate: 0.05%

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

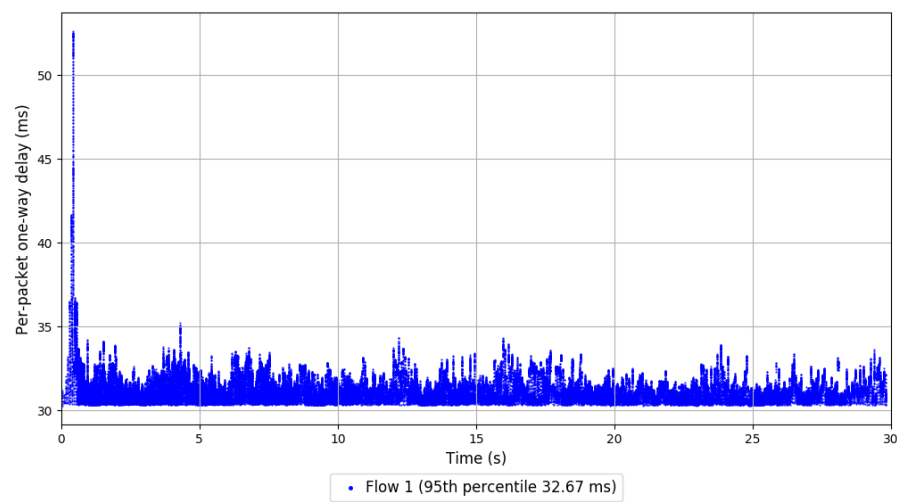
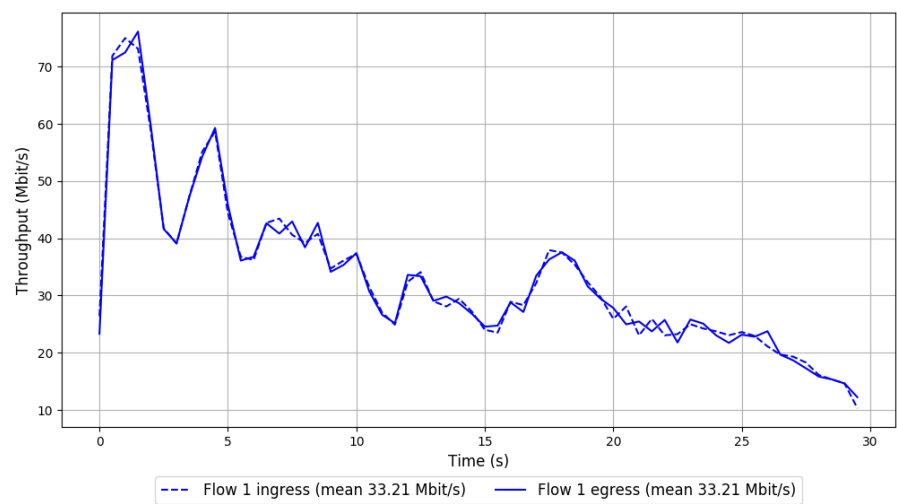


Run 10: Statistics of Indigo-1-32

Start at: 2018-02-13 06:05:34
End at: 2018-02-13 06:06:04
Local clock offset: -1.045 ms
Remote clock offset: -5.324 ms

Below is generated by plot.py at 2018-02-13 06:56:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 33.21 Mbit/s
95th percentile per-packet one-way delay: 32.671 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 33.21 Mbit/s
95th percentile per-packet one-way delay: 32.671 ms
Loss rate: 0.00%

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

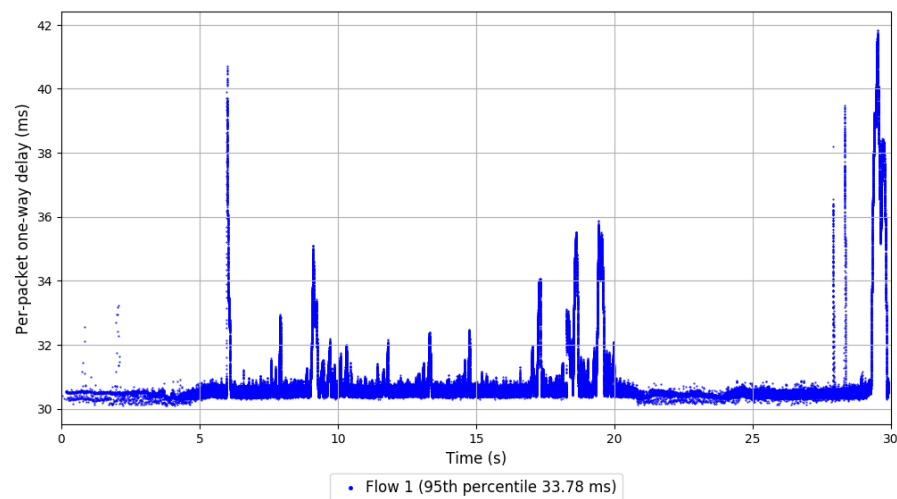
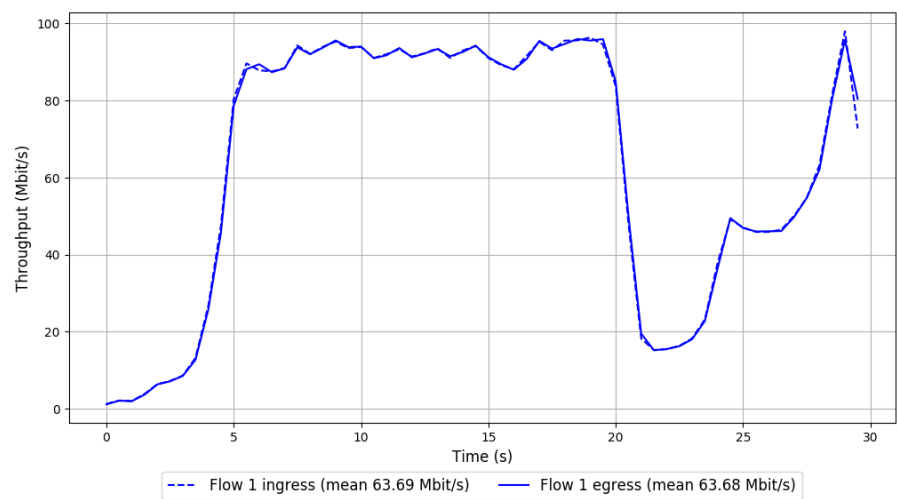


Run 1: Statistics of Vivace-latency

Start at: 2018-02-13 01:47:20
End at: 2018-02-13 01:47:50
Local clock offset: 1.906 ms
Remote clock offset: -9.721 ms

Below is generated by plot.py at 2018-02-13 06:56:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 63.68 Mbit/s
95th percentile per-packet one-way delay: 33.784 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 63.68 Mbit/s
95th percentile per-packet one-way delay: 33.784 ms
Loss rate: 0.02%

Run 1: Report of Vivace-latency — Data Link

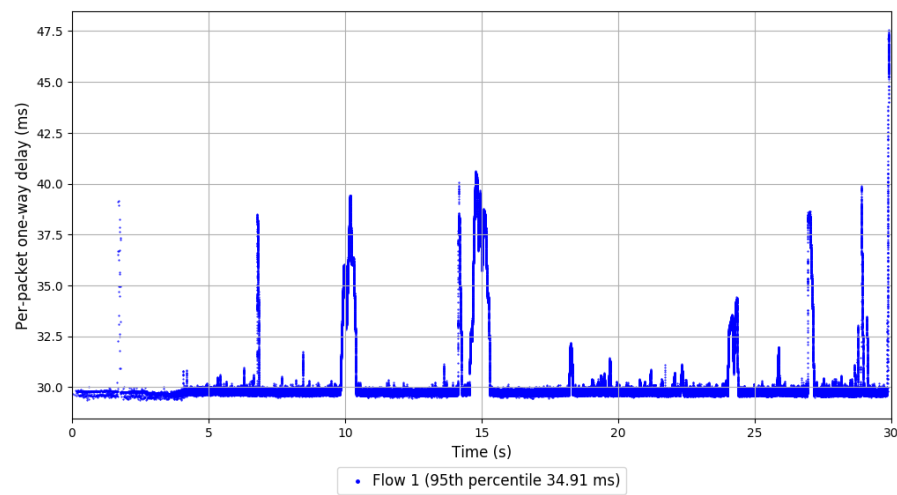
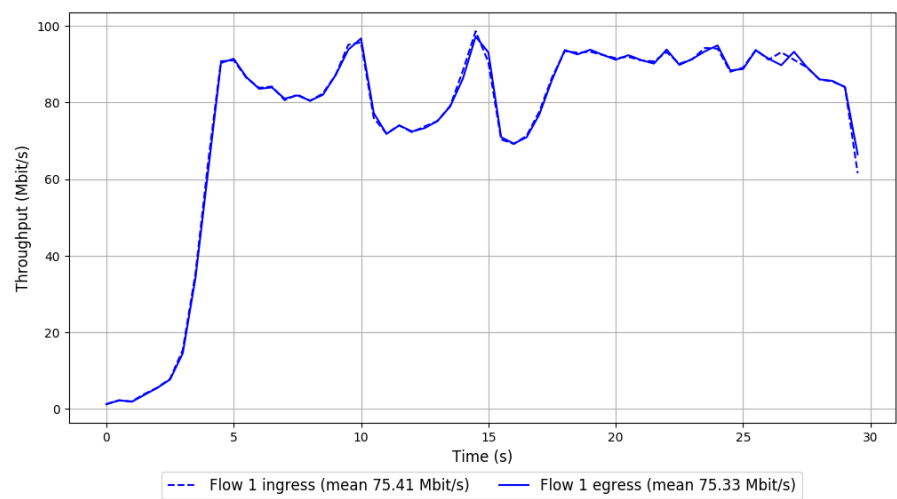


Run 2: Statistics of Vivace-latency

Start at: 2018-02-13 02:12:51
End at: 2018-02-13 02:13:21
Local clock offset: 0.62 ms
Remote clock offset: -5.251 ms

Below is generated by plot.py at 2018-02-13 06:56:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.33 Mbit/s
95th percentile per-packet one-way delay: 34.913 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 75.33 Mbit/s
95th percentile per-packet one-way delay: 34.913 ms
Loss rate: 0.06%

Run 2: Report of Vivace-latency — Data Link

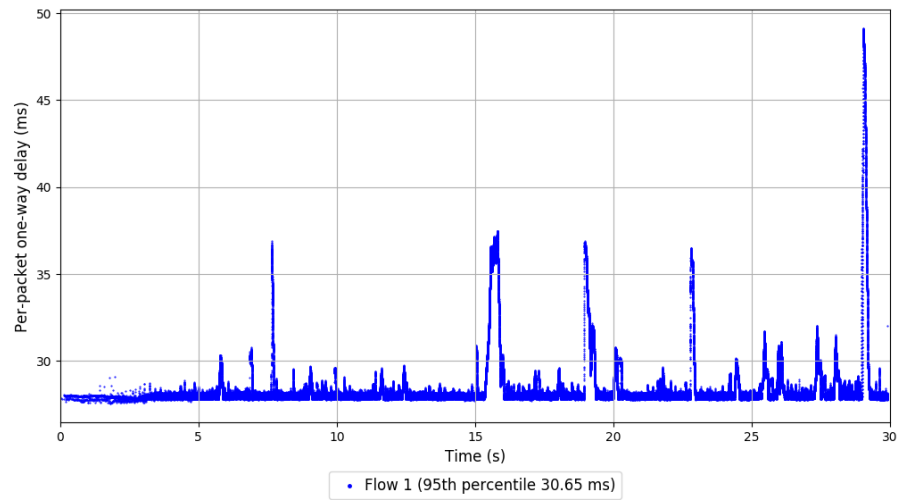
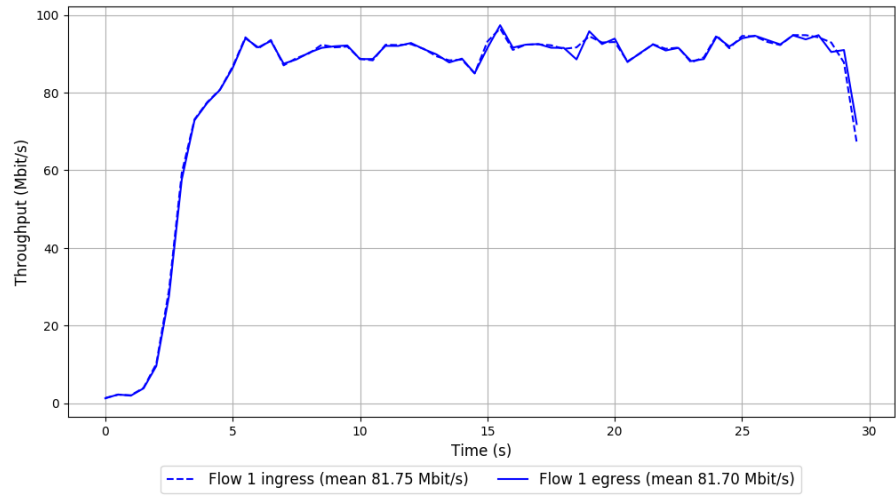


Run 3: Statistics of Vivace-latency

Start at: 2018-02-13 02:38:09
End at: 2018-02-13 02:38:39
Local clock offset: 0.36 ms
Remote clock offset: -6.441 ms

Below is generated by plot.py at 2018-02-13 06:56:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 81.70 Mbit/s
95th percentile per-packet one-way delay: 30.648 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 81.70 Mbit/s
95th percentile per-packet one-way delay: 30.648 ms
Loss rate: 0.05%

Run 3: Report of Vivace-latency — Data Link

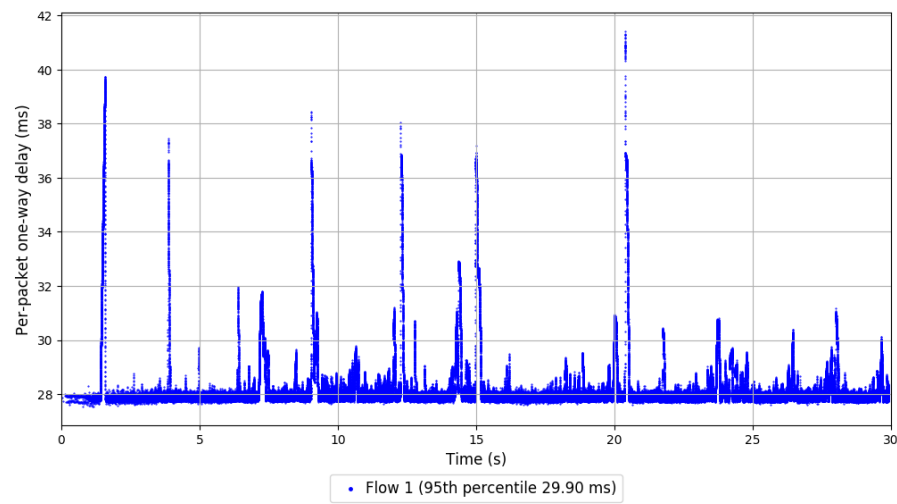
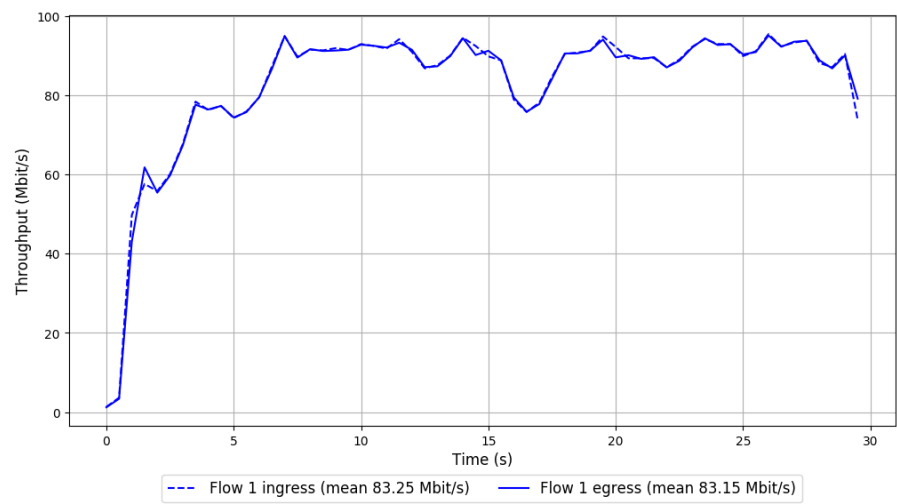


Run 4: Statistics of Vivace-latency

Start at: 2018-02-13 03:02:45
End at: 2018-02-13 03:03:15
Local clock offset: 0.117 ms
Remote clock offset: -5.607 ms

Below is generated by plot.py at 2018-02-13 06:56:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 83.15 Mbit/s
95th percentile per-packet one-way delay: 29.899 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 83.15 Mbit/s
95th percentile per-packet one-way delay: 29.899 ms
Loss rate: 0.11%

Run 4: Report of Vivace-latency — Data Link

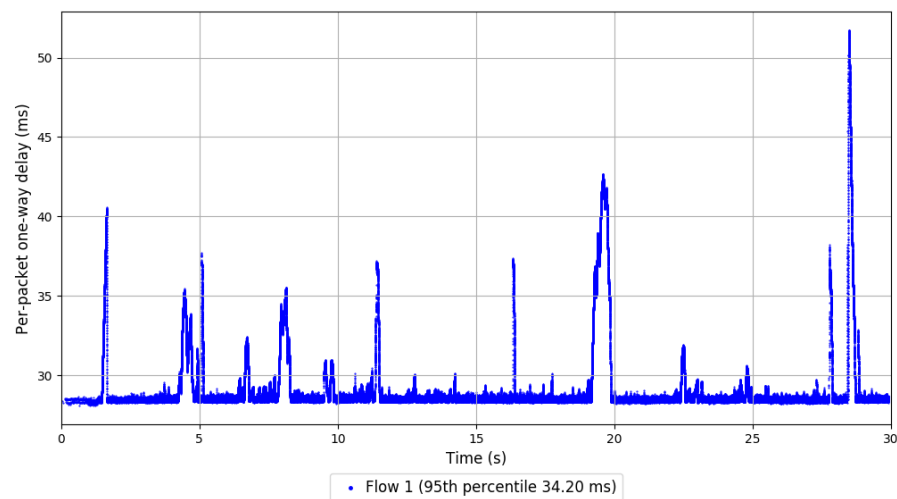
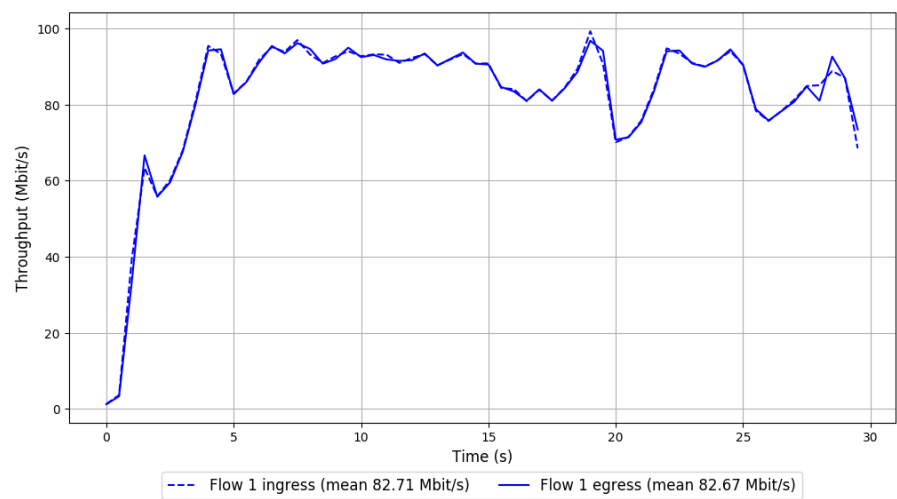


Run 5: Statistics of Vivace-latency

Start at: 2018-02-13 03:27:39
End at: 2018-02-13 03:28:09
Local clock offset: 0.232 ms
Remote clock offset: -4.388 ms

Below is generated by plot.py at 2018-02-13 06:57:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.67 Mbit/s
95th percentile per-packet one-way delay: 34.195 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 82.67 Mbit/s
95th percentile per-packet one-way delay: 34.195 ms
Loss rate: 0.05%

Run 5: Report of Vivace-latency — Data Link

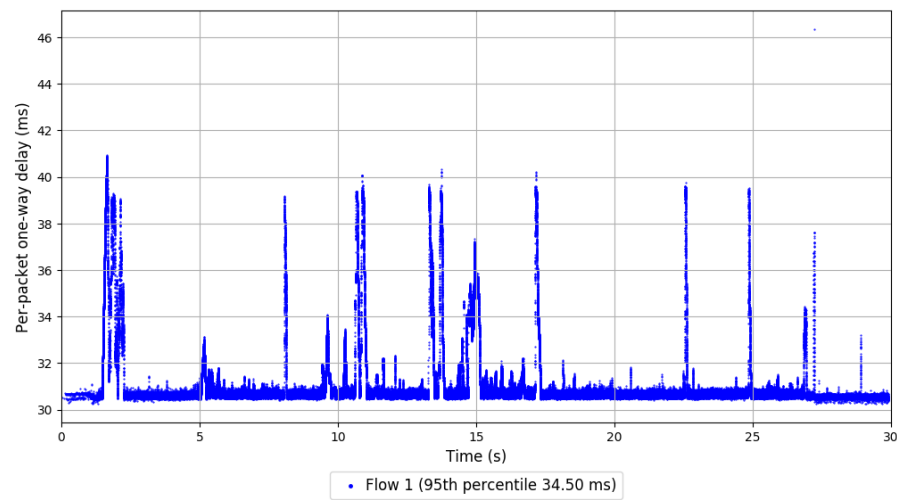
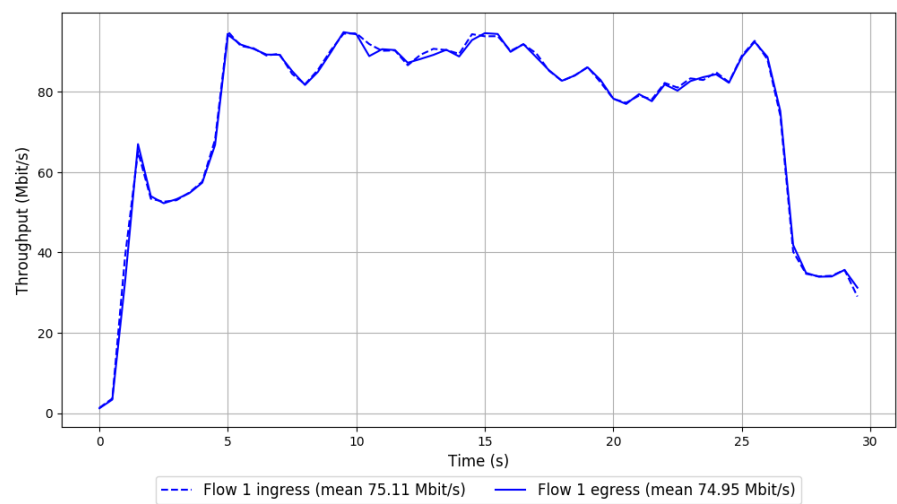


Run 6: Statistics of Vivace-latency

Start at: 2018-02-13 03:54:29
End at: 2018-02-13 03:54:59
Local clock offset: 0.795 ms
Remote clock offset: -3.947 ms

Below is generated by plot.py at 2018-02-13 06:57:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.95 Mbit/s
95th percentile per-packet one-way delay: 34.500 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 74.95 Mbit/s
95th percentile per-packet one-way delay: 34.500 ms
Loss rate: 0.22%

Run 6: Report of Vivace-latency — Data Link

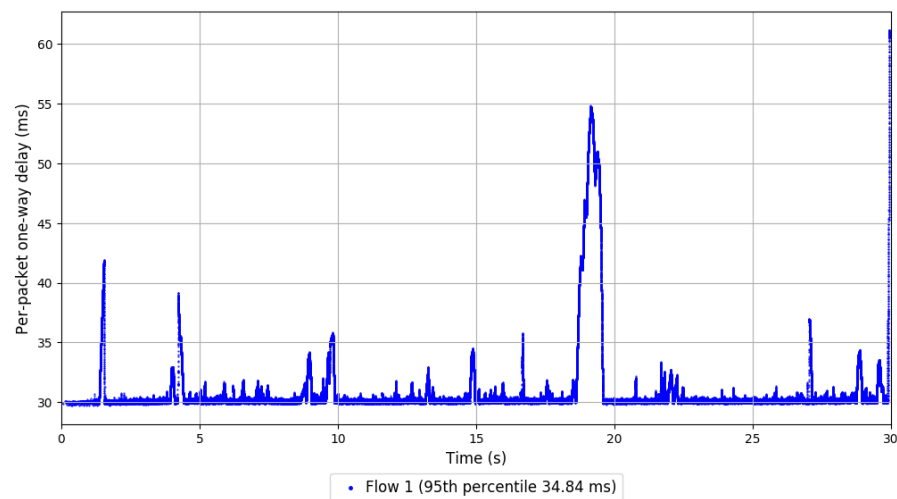
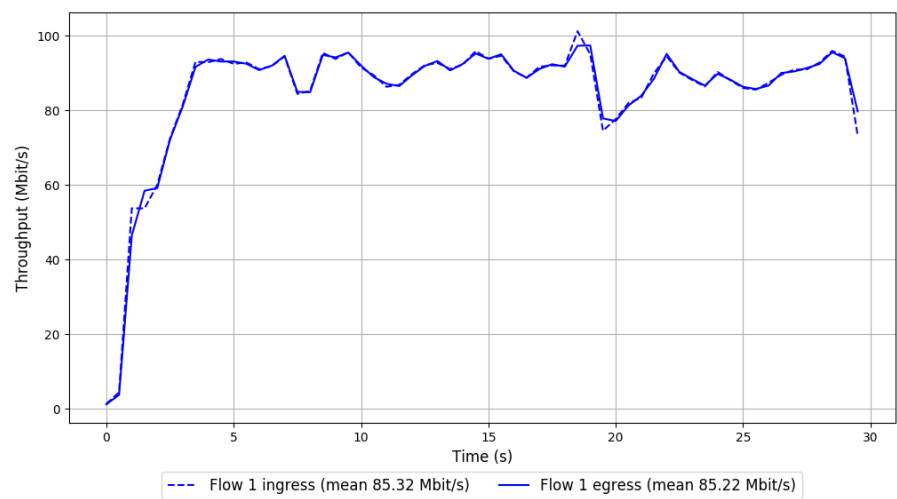


Run 7: Statistics of Vivace-latency

Start at: 2018-02-13 04:23:35
End at: 2018-02-13 04:24:05
Local clock offset: 0.36 ms
Remote clock offset: -6.033 ms

Below is generated by plot.py at 2018-02-13 06:57:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.22 Mbit/s
95th percentile per-packet one-way delay: 34.836 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 85.22 Mbit/s
95th percentile per-packet one-way delay: 34.836 ms
Loss rate: 0.01%

Run 7: Report of Vivace-latency — Data Link

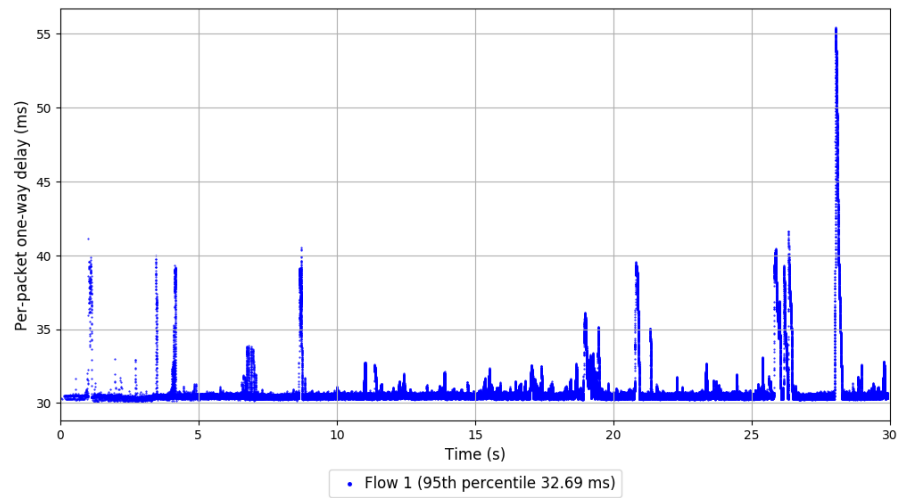
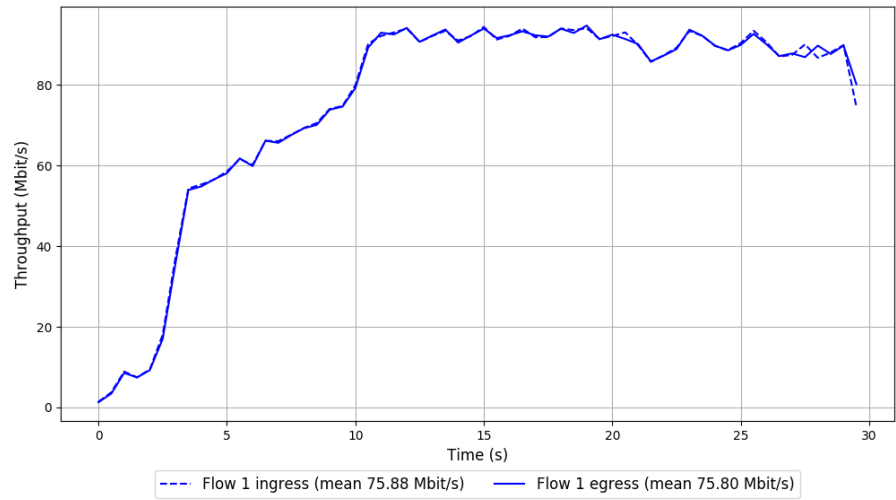


Run 8: Statistics of Vivace-latency

Start at: 2018-02-13 04:49:36
End at: 2018-02-13 04:50:06
Local clock offset: -0.393 ms
Remote clock offset: -6.767 ms

Below is generated by plot.py at 2018-02-13 06:57:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.80 Mbit/s
95th percentile per-packet one-way delay: 32.691 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 75.80 Mbit/s
95th percentile per-packet one-way delay: 32.691 ms
Loss rate: 0.11%

Run 8: Report of Vivace-latency — Data Link

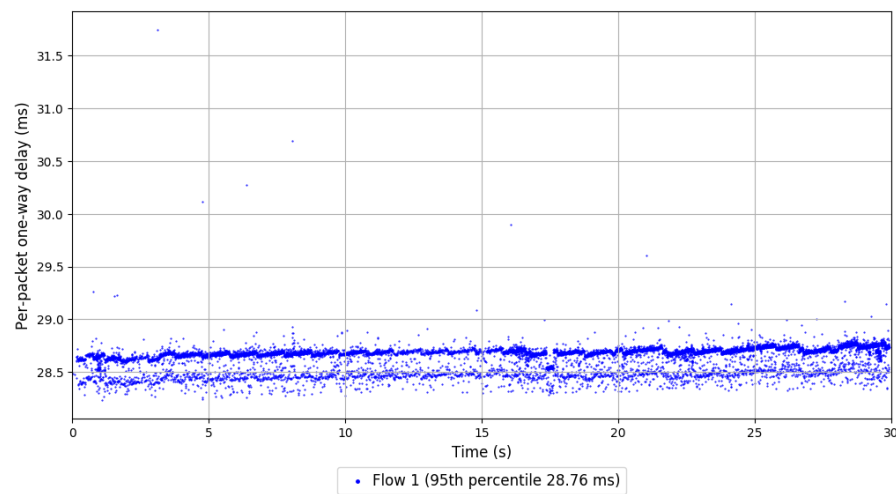
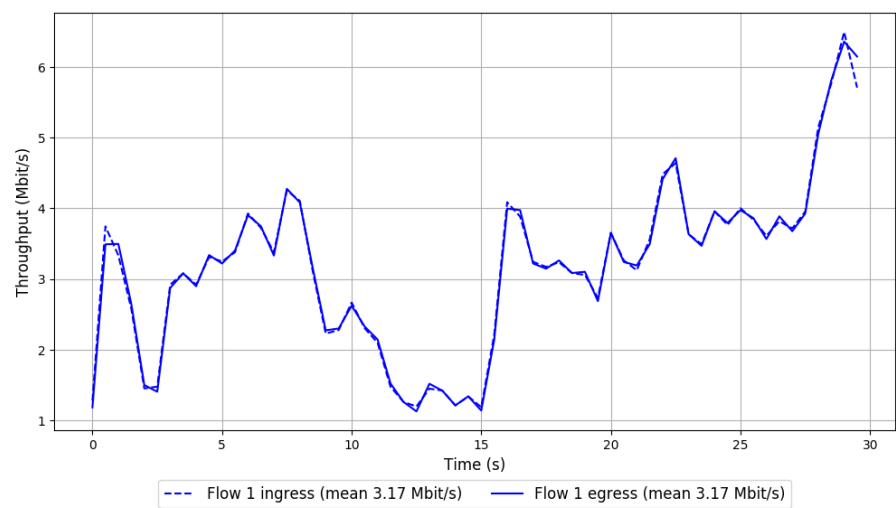


Run 9: Statistics of Vivace-latency

Start at: 2018-02-13 05:19:18
End at: 2018-02-13 05:19:48
Local clock offset: -2.255 ms
Remote clock offset: -9.565 ms

Below is generated by plot.py at 2018-02-13 06:57:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.17 Mbit/s
95th percentile per-packet one-way delay: 28.757 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.17 Mbit/s
95th percentile per-packet one-way delay: 28.757 ms
Loss rate: 0.00%

Run 9: Report of Vivace-latency — Data Link

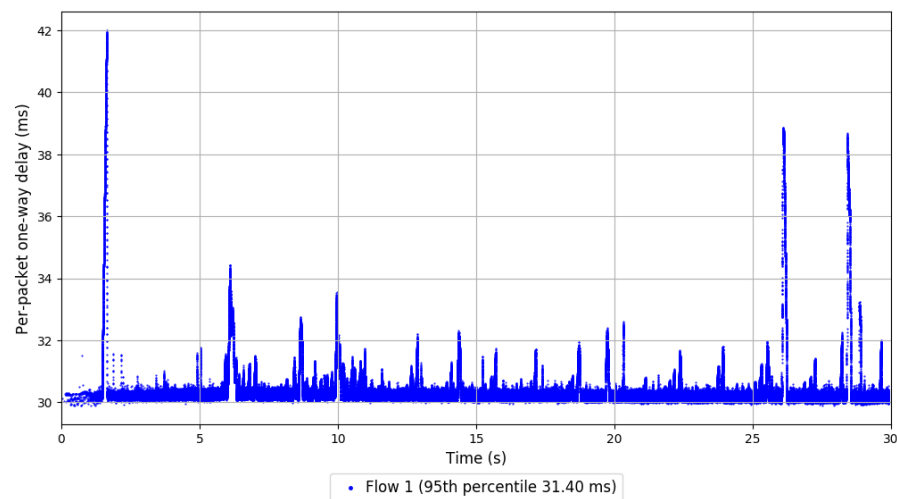
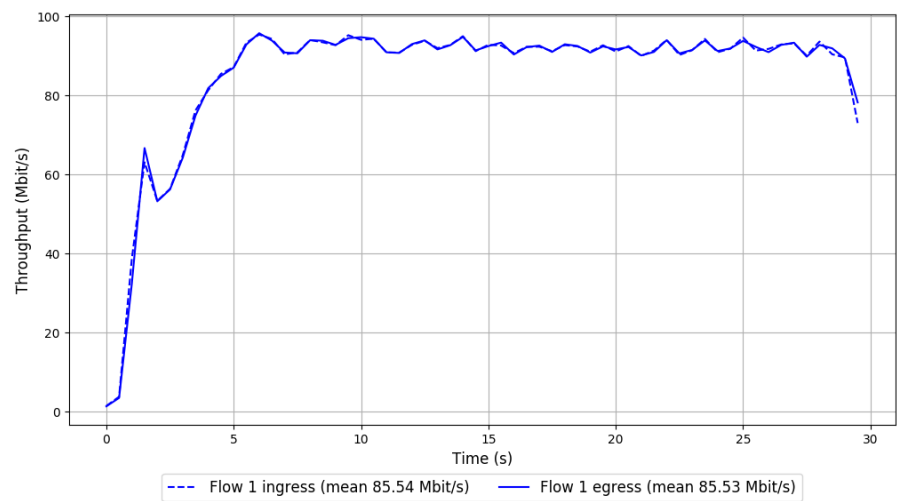


Run 10: Statistics of Vivace-latency

Start at: 2018-02-13 05:46:46
End at: 2018-02-13 05:47:16
Local clock offset: -1.426 ms
Remote clock offset: -7.885 ms

Below is generated by plot.py at 2018-02-13 06:58:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.53 Mbit/s
95th percentile per-packet one-way delay: 31.400 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 85.53 Mbit/s
95th percentile per-packet one-way delay: 31.400 ms
Loss rate: 0.01%

Run 10: Report of Vivace-latency — Data Link



Run 1: Statistics of Vivace-loss

Start at: 2018-02-13 02:09:56

End at: 2018-02-13 02:10:26

Local clock offset: 0.724 ms

Remote clock offset: -7.566 ms

Below is generated by plot.py at 2018-02-13 06:58:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.67 Mbit/s

95th percentile per-packet one-way delay: 59.803 ms

Loss rate: 2.78%

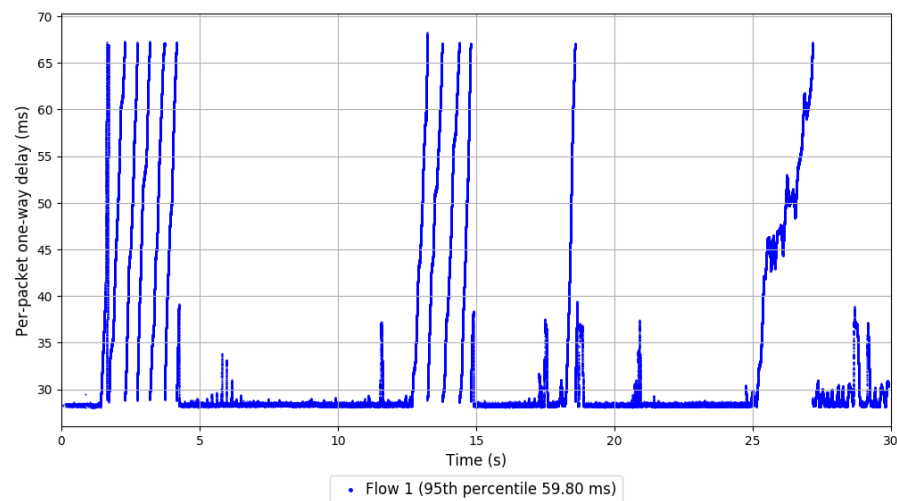
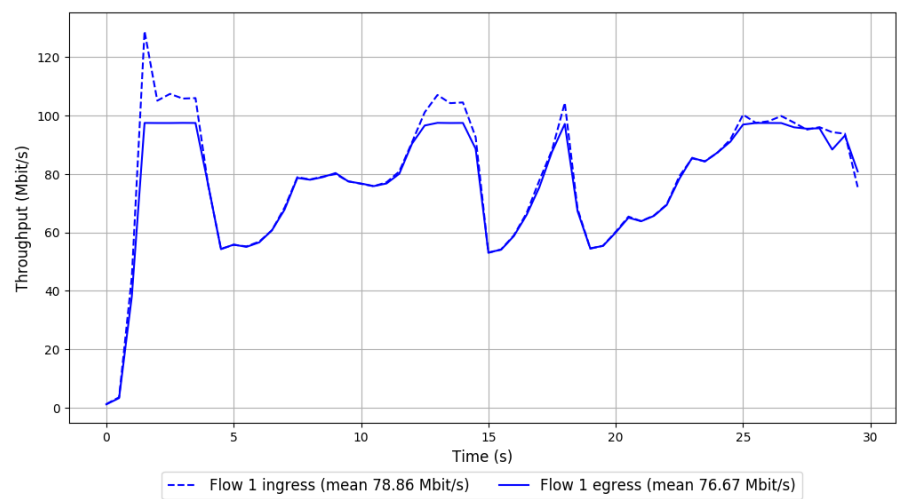
-- Flow 1:

Average throughput: 76.67 Mbit/s

95th percentile per-packet one-way delay: 59.803 ms

Loss rate: 2.78%

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-13 02:35:23

End at: 2018-02-13 02:35:53

Local clock offset: 0.372 ms

Remote clock offset: -4.563 ms

Below is generated by plot.py at 2018-02-13 06:58:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.39 Mbit/s

95th percentile per-packet one-way delay: 63.113 ms

Loss rate: 8.58%

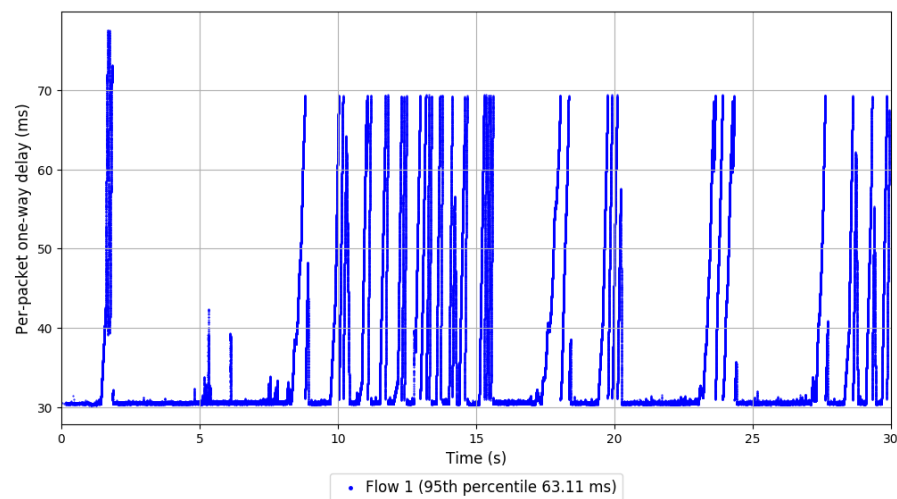
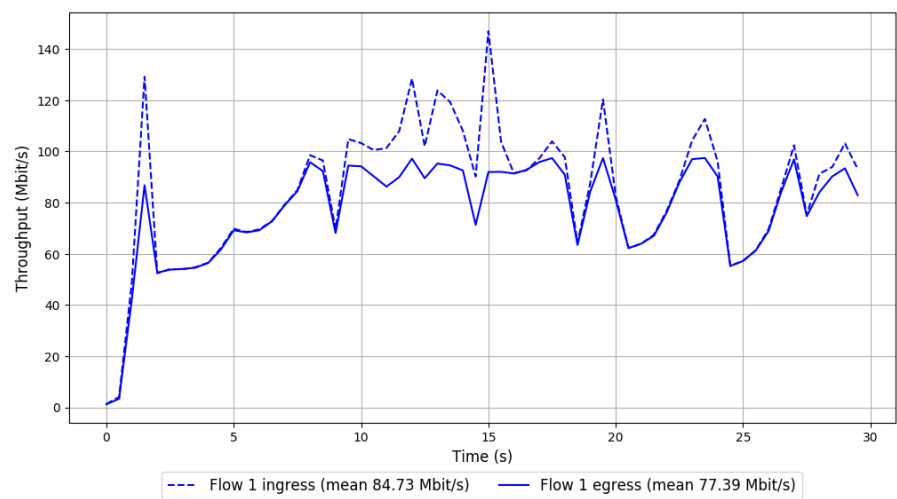
-- Flow 1:

Average throughput: 77.39 Mbit/s

95th percentile per-packet one-way delay: 63.113 ms

Loss rate: 8.58%

Run 2: Report of Vivace-loss — Data Link

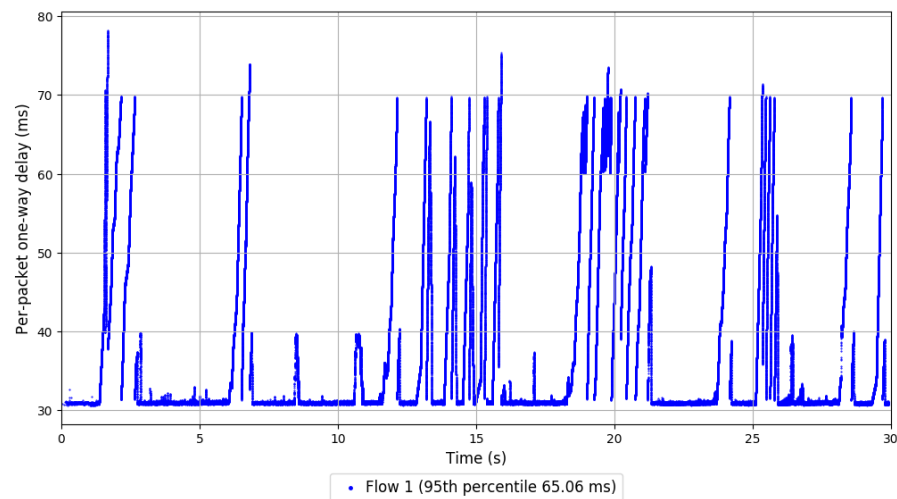
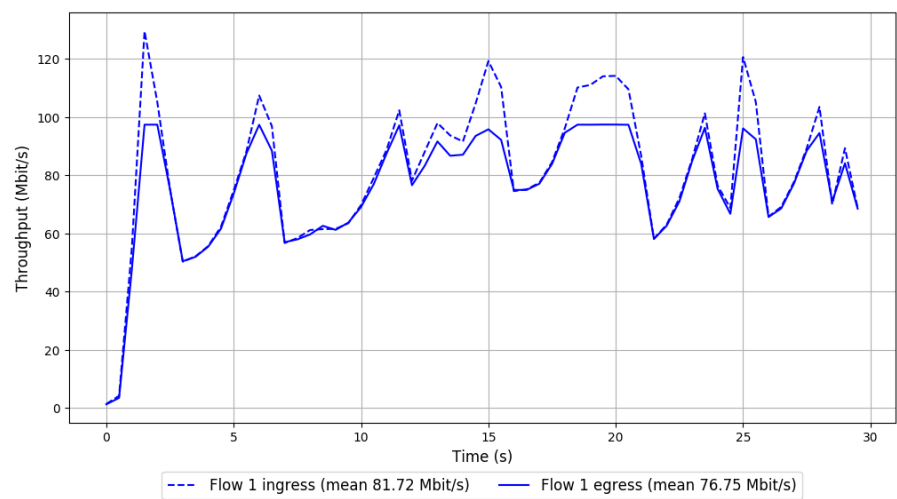


Run 3: Statistics of Vivace-loss

Start at: 2018-02-13 03:00:01
End at: 2018-02-13 03:00:31
Local clock offset: 0.209 ms
Remote clock offset: -3.396 ms

Below is generated by plot.py at 2018-02-13 06:58:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.75 Mbit/s
95th percentile per-packet one-way delay: 65.055 ms
Loss rate: 6.08%
-- Flow 1:
Average throughput: 76.75 Mbit/s
95th percentile per-packet one-way delay: 65.055 ms
Loss rate: 6.08%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-13 03:24:48

End at: 2018-02-13 03:25:18

Local clock offset: 0.294 ms

Remote clock offset: -2.365 ms

Below is generated by plot.py at 2018-02-13 06:58:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.10 Mbit/s

95th percentile per-packet one-way delay: 64.134 ms

Loss rate: 5.07%

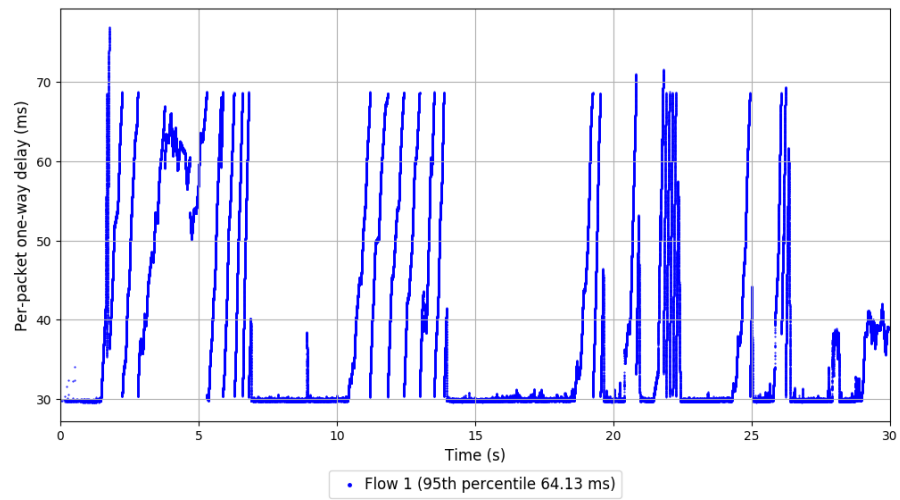
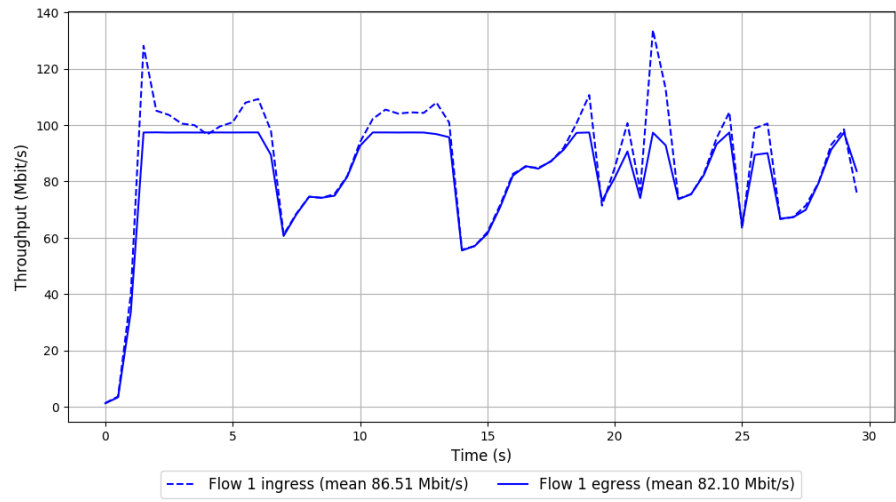
-- Flow 1:

Average throughput: 82.10 Mbit/s

95th percentile per-packet one-way delay: 64.134 ms

Loss rate: 5.07%

Run 4: Report of Vivace-loss — Data Link

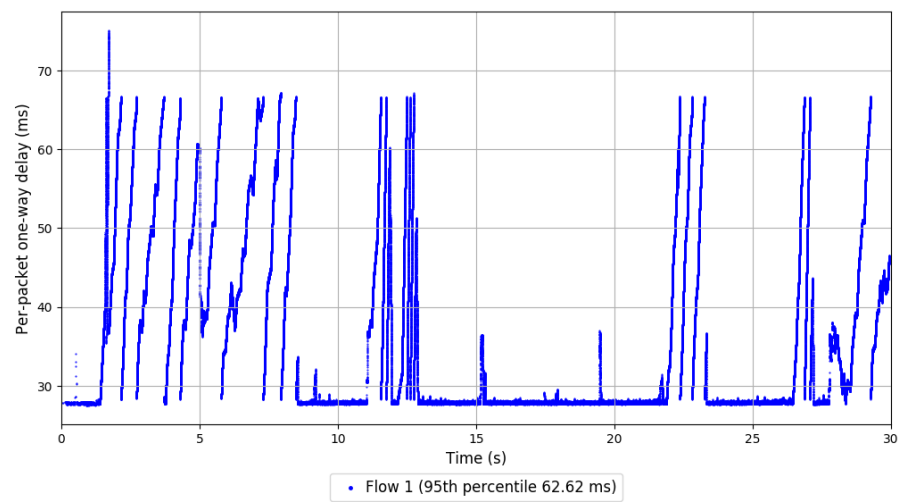
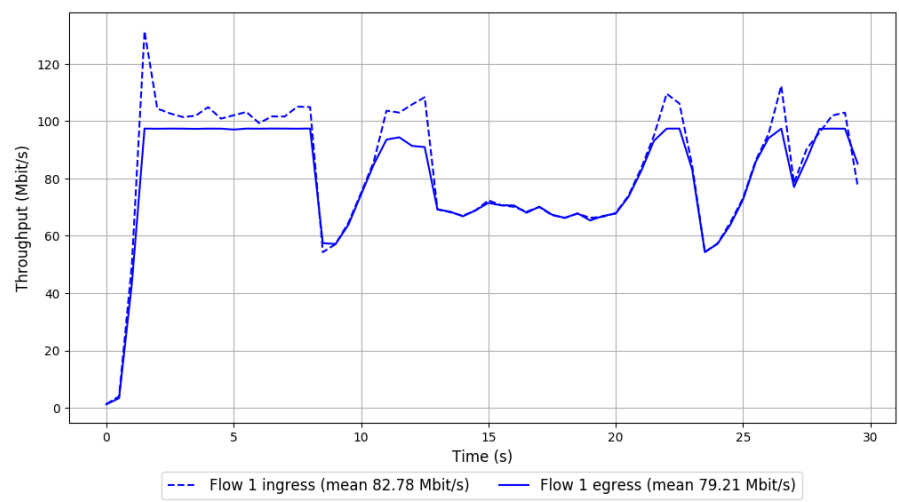


Run 5: Statistics of Vivace-loss

Start at: 2018-02-13 03:51:27
End at: 2018-02-13 03:51:57
Local clock offset: 0.779 ms
Remote clock offset: -6.019 ms

Below is generated by plot.py at 2018-02-13 06:58:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.21 Mbit/s
95th percentile per-packet one-way delay: 62.622 ms
Loss rate: 4.25%
-- Flow 1:
Average throughput: 79.21 Mbit/s
95th percentile per-packet one-way delay: 62.622 ms
Loss rate: 4.25%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-13 04:20:25

End at: 2018-02-13 04:20:55

Local clock offset: 0.526 ms

Remote clock offset: -7.893 ms

Below is generated by plot.py at 2018-02-13 06:59:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.67 Mbit/s

95th percentile per-packet one-way delay: 62.658 ms

Loss rate: 3.86%

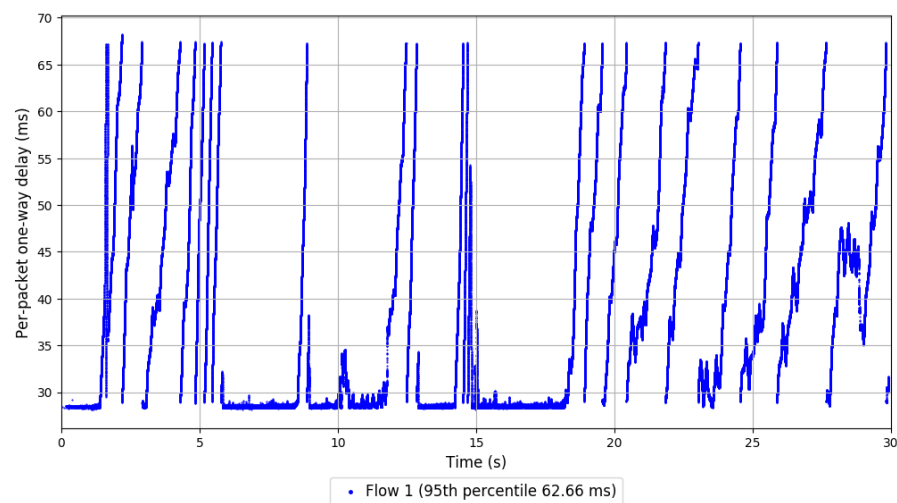
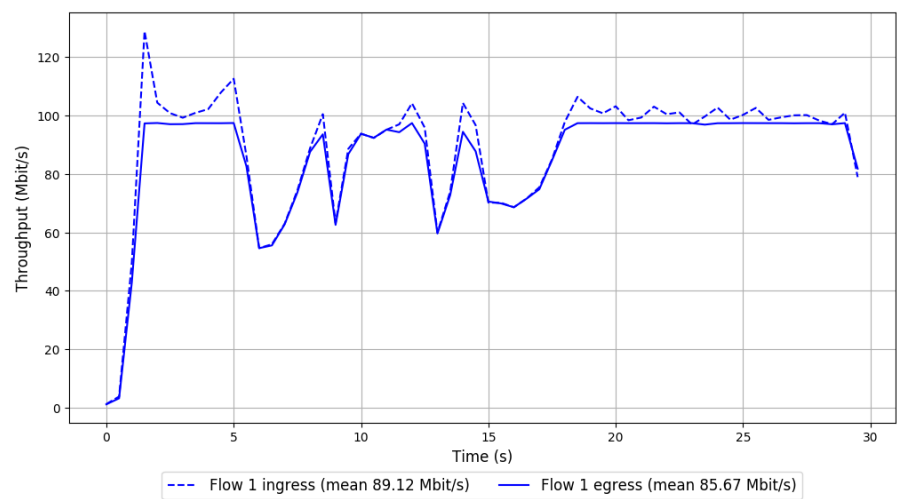
-- Flow 1:

Average throughput: 85.67 Mbit/s

95th percentile per-packet one-way delay: 62.658 ms

Loss rate: 3.86%

Run 6: Report of Vivace-loss — Data Link

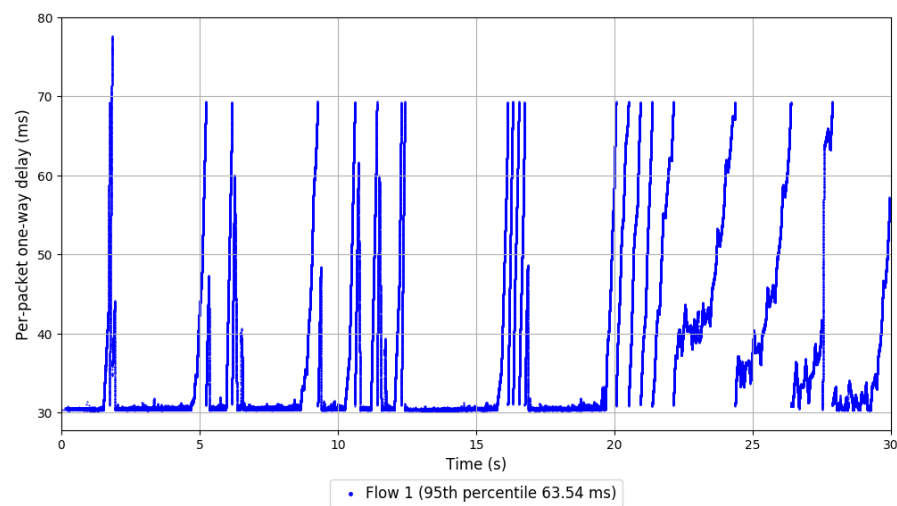
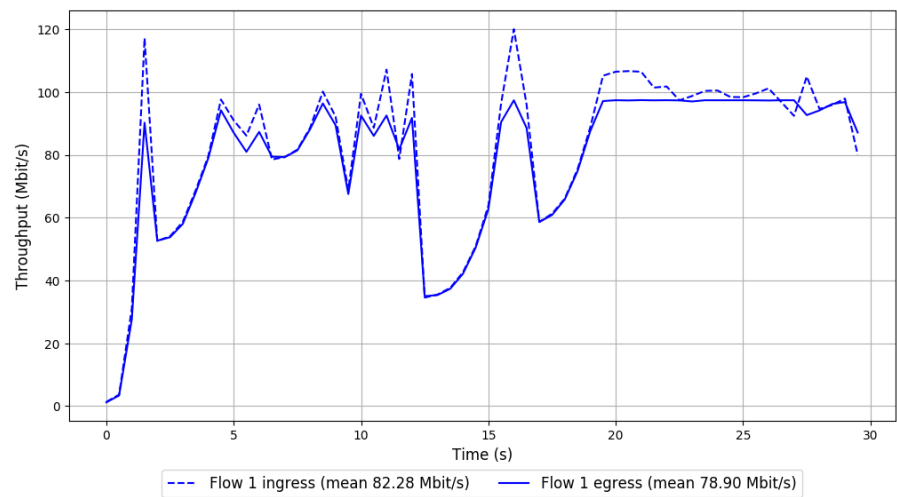


Run 7: Statistics of Vivace-loss

Start at: 2018-02-13 04:46:52
End at: 2018-02-13 04:47:22
Local clock offset: -0.025 ms
Remote clock offset: -6.791 ms

Below is generated by plot.py at 2018-02-13 06:59:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.90 Mbit/s
95th percentile per-packet one-way delay: 63.539 ms
Loss rate: 4.03%
-- Flow 1:
Average throughput: 78.90 Mbit/s
95th percentile per-packet one-way delay: 63.539 ms
Loss rate: 4.03%

Run 7: Report of Vivace-loss — Data Link

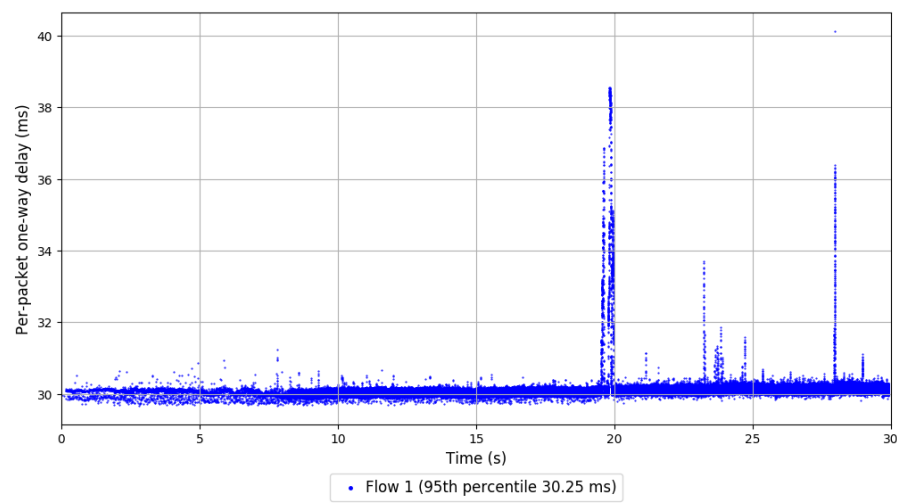
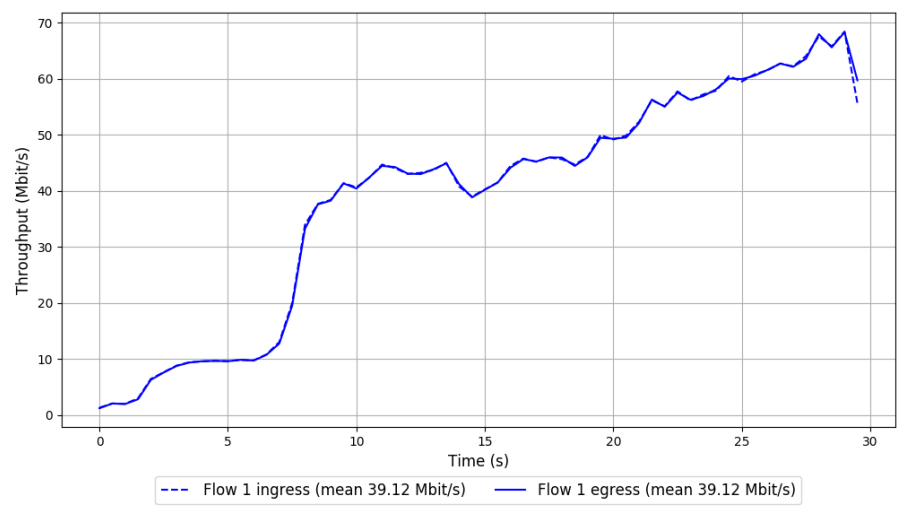


Run 8: Statistics of Vivace-loss

Start at: 2018-02-13 05:15:45
End at: 2018-02-13 05:16:15
Local clock offset: -2.123 ms
Remote clock offset: -6.791 ms

Below is generated by plot.py at 2018-02-13 06:59:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 39.12 Mbit/s
95th percentile per-packet one-way delay: 30.252 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 39.12 Mbit/s
95th percentile per-packet one-way delay: 30.252 ms
Loss rate: 0.02%

Run 8: Report of Vivace-loss — Data Link

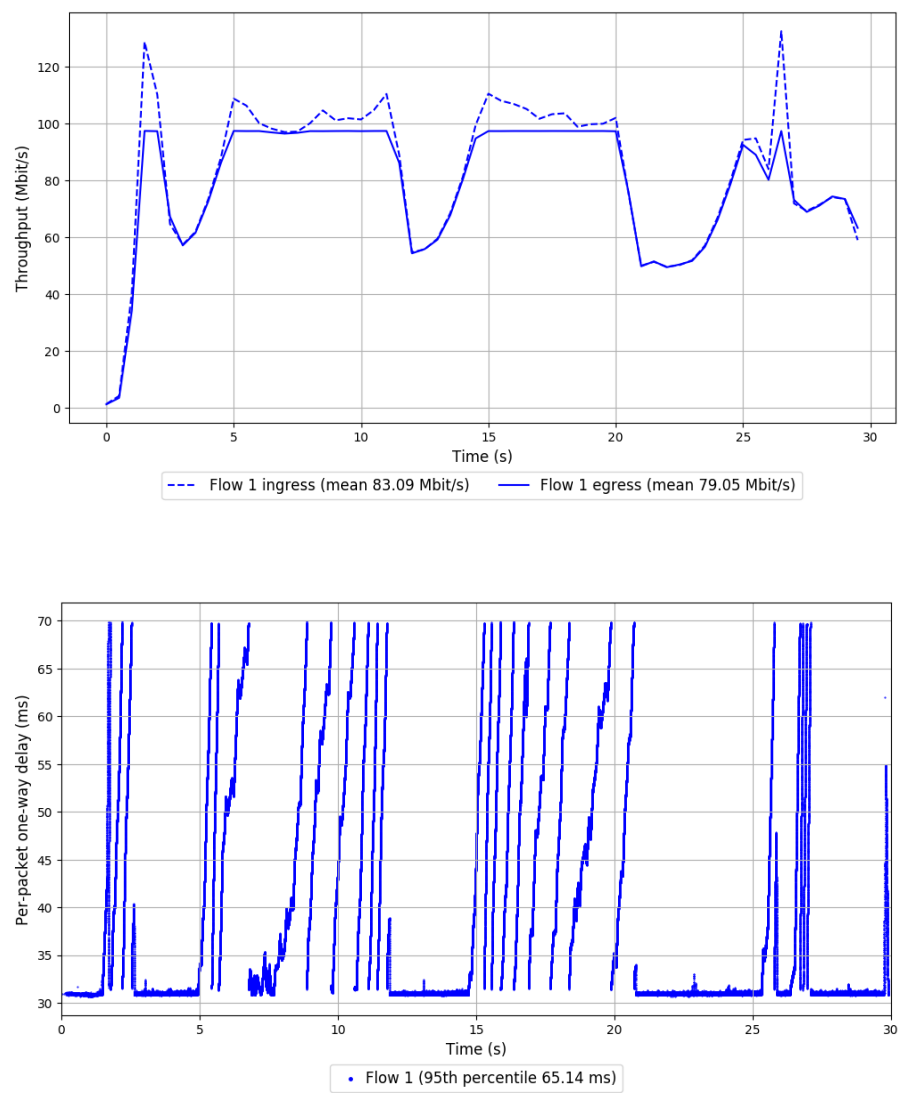


Run 9: Statistics of Vivace-loss

Start at: 2018-02-13 05:43:57
End at: 2018-02-13 05:44:27
Local clock offset: -1.397 ms
Remote clock offset: -7.836 ms

Below is generated by plot.py at 2018-02-13 06:59:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.05 Mbit/s
95th percentile per-packet one-way delay: 65.142 ms
Loss rate: 4.87%
-- Flow 1:
Average throughput: 79.05 Mbit/s
95th percentile per-packet one-way delay: 65.142 ms
Loss rate: 4.87%

Run 9: Report of Vivace-loss — Data Link

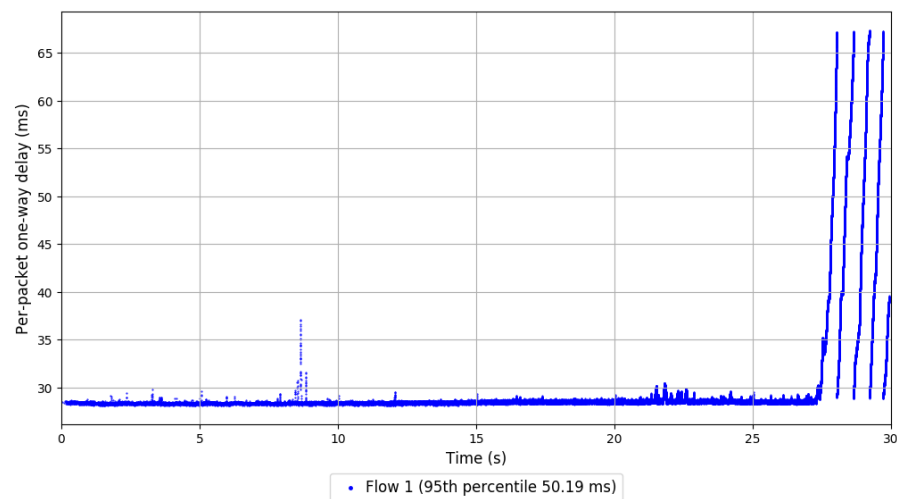
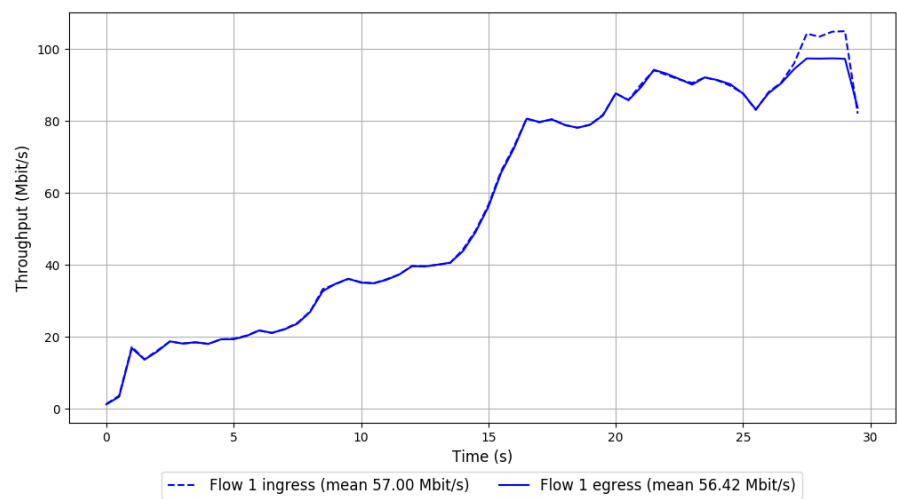


Run 10: Statistics of Vivace-loss

Start at: 2018-02-13 06:11:11
End at: 2018-02-13 06:11:41
Local clock offset: -1.042 ms
Remote clock offset: -6.909 ms

Below is generated by plot.py at 2018-02-13 06:59:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 56.42 Mbit/s
95th percentile per-packet one-way delay: 50.189 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 56.42 Mbit/s
95th percentile per-packet one-way delay: 50.189 ms
Loss rate: 0.98%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-02-13 02:02:35

End at: 2018-02-13 02:03:05

Local clock offset: 0.984 ms

Remote clock offset: -6.15 ms

Below is generated by plot.py at 2018-02-13 06:59:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.17 Mbit/s

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

Loss rate: 0.68%

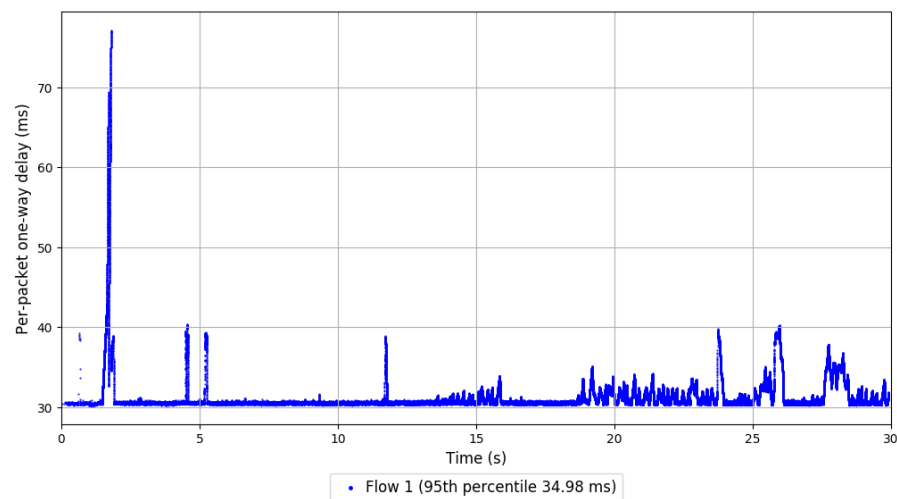
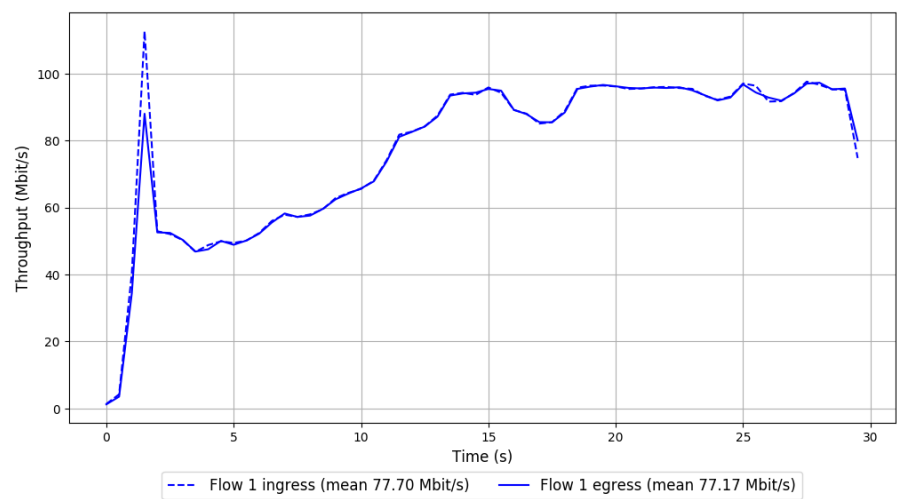
-- Flow 1:

Average throughput: 77.17 Mbit/s

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

Loss rate: 0.68%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-13 02:28:04

End at: 2018-02-13 02:28:34

Local clock offset: 0.252 ms

Remote clock offset: -6.709 ms

Below is generated by plot.py at 2018-02-13 06:59:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.67 Mbit/s

95th percentile per-packet one-way delay: 44.933 ms

Loss rate: 0.99%

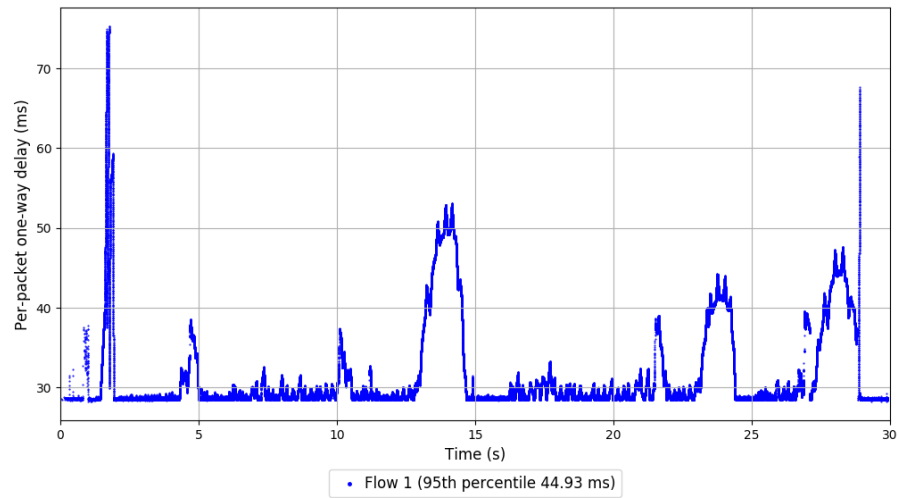
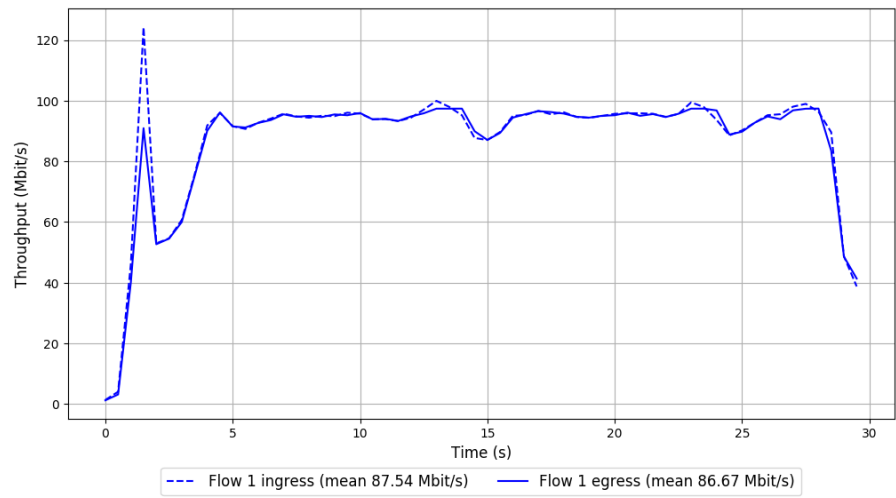
-- Flow 1:

Average throughput: 86.67 Mbit/s

95th percentile per-packet one-way delay: 44.933 ms

Loss rate: 0.99%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-13 02:52:57

End at: 2018-02-13 02:53:27

Local clock offset: 0.291 ms

Remote clock offset: -6.402 ms

Below is generated by plot.py at 2018-02-13 06:59:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.01 Mbit/s

95th percentile per-packet one-way delay: 55.445 ms

Loss rate: 0.83%

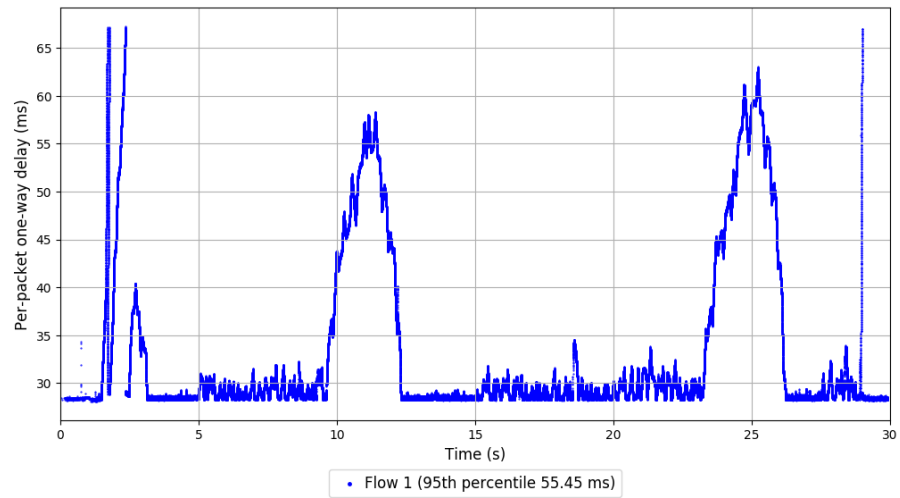
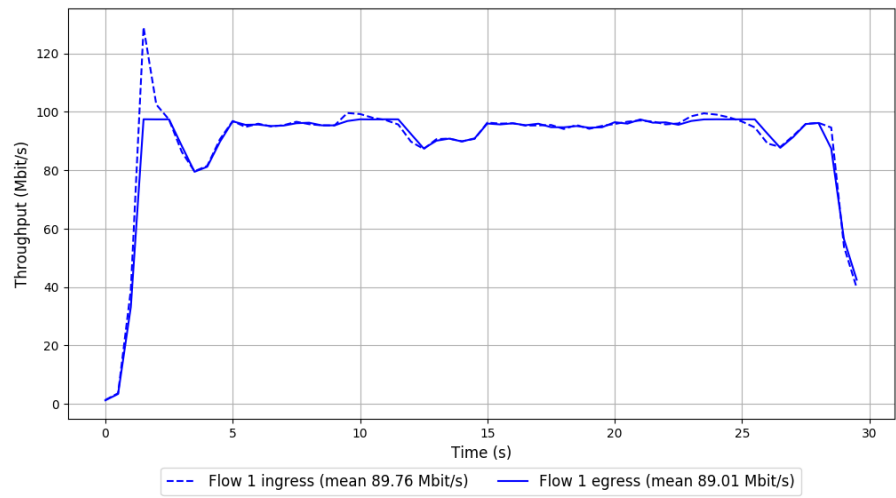
-- Flow 1:

Average throughput: 89.01 Mbit/s

95th percentile per-packet one-way delay: 55.445 ms

Loss rate: 0.83%

Run 3: Report of Vivace-LTE — Data Link

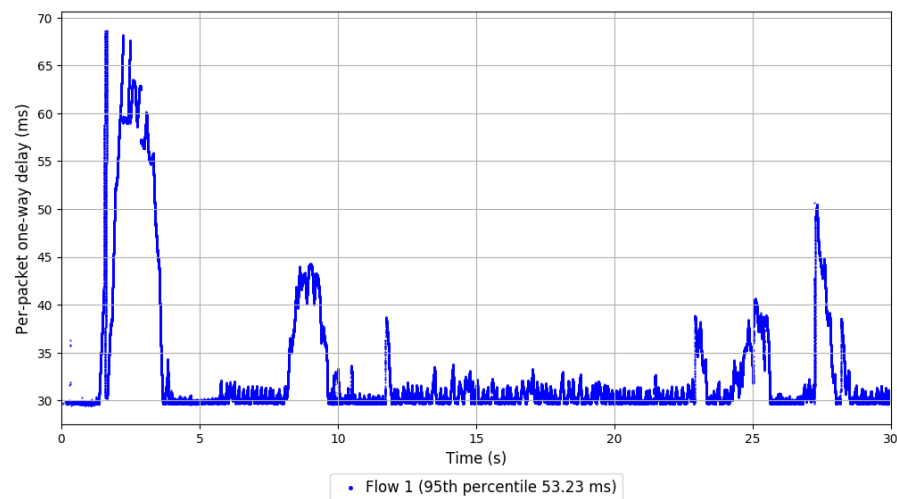
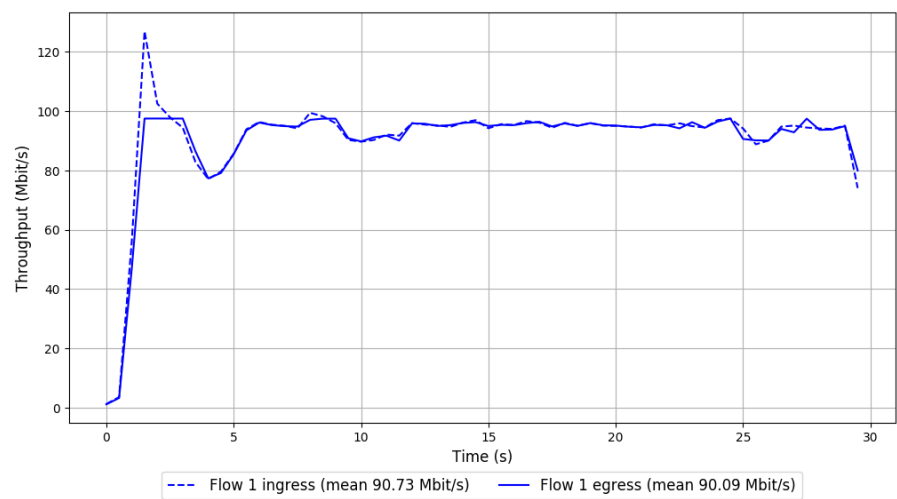


Run 4: Statistics of Vivace-LTE

Start at: 2018-02-13 03:17:45
End at: 2018-02-13 03:18:15
Local clock offset: 0.334 ms
Remote clock offset: -2.751 ms

Below is generated by plot.py at 2018-02-13 06:59:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.09 Mbit/s
95th percentile per-packet one-way delay: 53.226 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 90.09 Mbit/s
95th percentile per-packet one-way delay: 53.226 ms
Loss rate: 0.70%

Run 4: Report of Vivace-LTE — Data Link

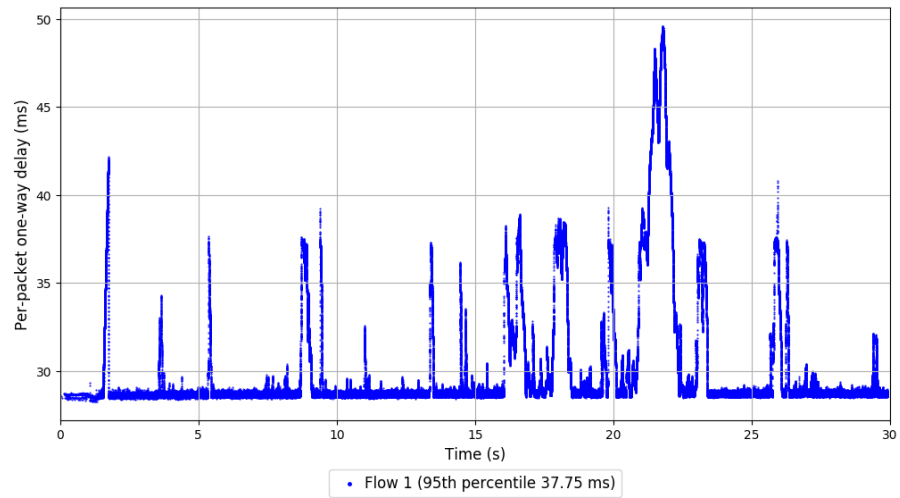
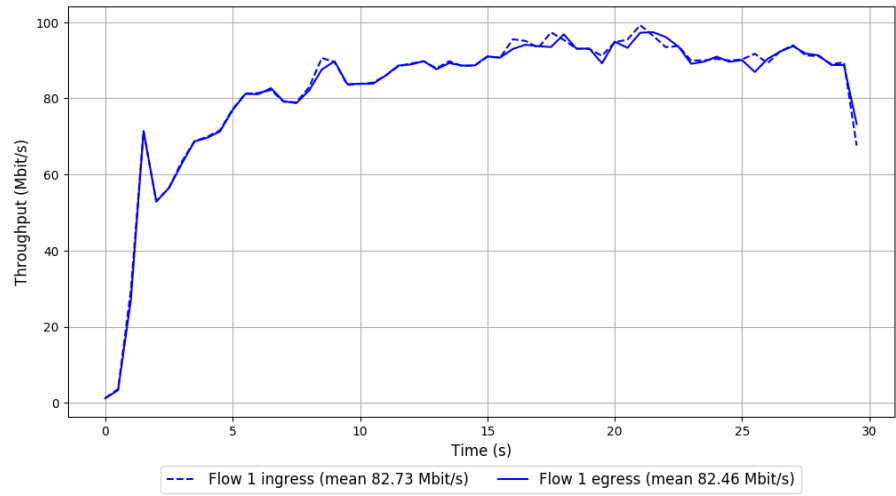


Run 5: Statistics of Vivace-LTE

Start at: 2018-02-13 03:43:55
End at: 2018-02-13 03:44:25
Local clock offset: 0.536 ms
Remote clock offset: -5.715 ms

Below is generated by plot.py at 2018-02-13 07:00:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.46 Mbit/s
95th percentile per-packet one-way delay: 37.749 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 82.46 Mbit/s
95th percentile per-packet one-way delay: 37.749 ms
Loss rate: 0.33%

Run 5: Report of Vivace-LTE — Data Link

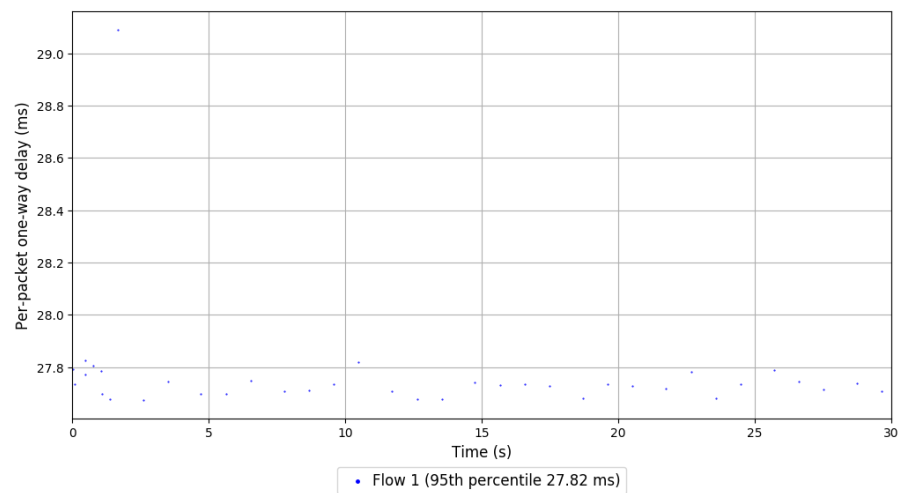
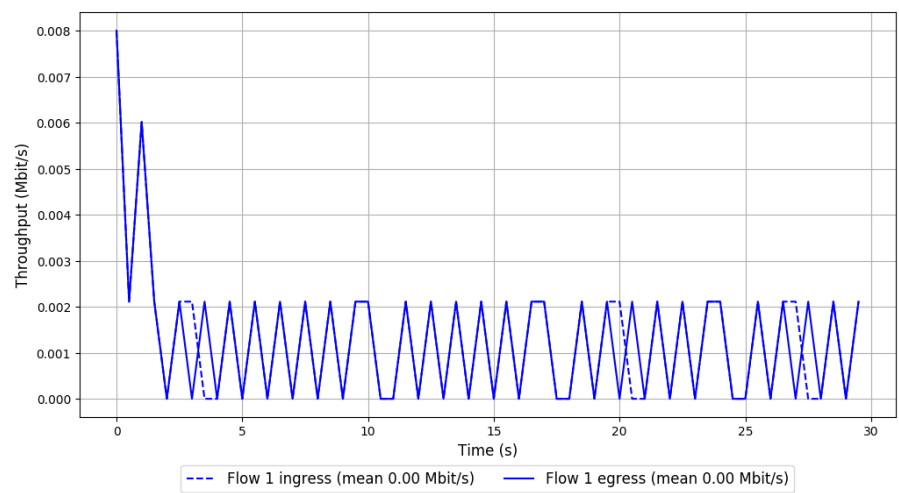


Run 6: Statistics of Vivace-LTE

Start at: 2018-02-13 04:12:11
End at: 2018-02-13 04:12:41
Local clock offset: 0.874 ms
Remote clock offset: -7.086 ms

Below is generated by plot.py at 2018-02-13 07:00:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 27.819 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 27.819 ms
Loss rate: 0.00%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-13 04:39:56

End at: 2018-02-13 04:40:26

Local clock offset: 0.266 ms

Remote clock offset: -7.28 ms

Below is generated by plot.py at 2018-02-13 07:00:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.69 Mbit/s

95th percentile per-packet one-way delay: 54.982 ms

Loss rate: 0.30%

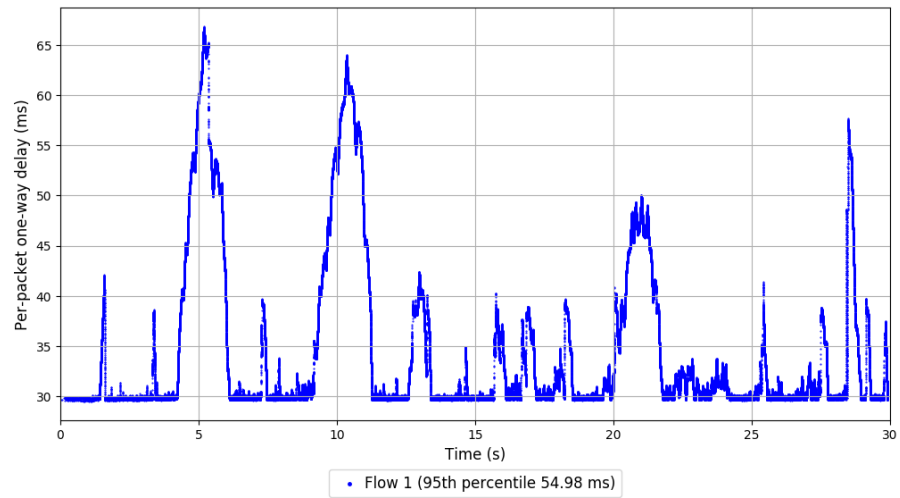
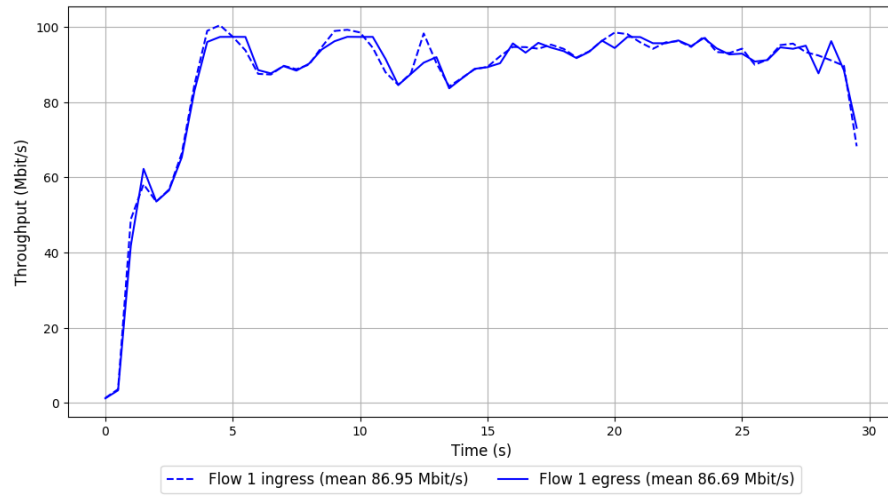
-- Flow 1:

Average throughput: 86.69 Mbit/s

95th percentile per-packet one-way delay: 54.982 ms

Loss rate: 0.30%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-13 05:06:01

End at: 2018-02-13 05:06:31

Local clock offset: -1.663 ms

Remote clock offset: -8.62 ms

Below is generated by plot.py at 2018-02-13 07:00:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.42 Mbit/s

95th percentile per-packet one-way delay: 28.487 ms

Loss rate: 0.00%

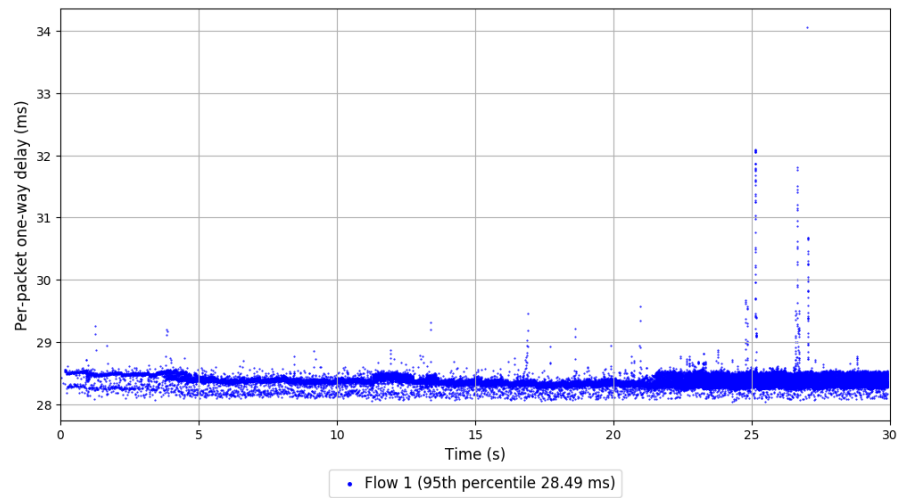
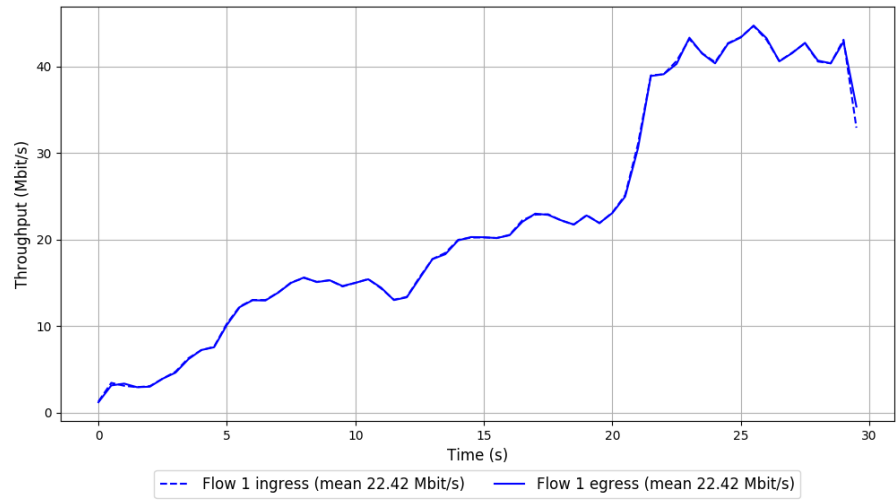
-- Flow 1:

Average throughput: 22.42 Mbit/s

95th percentile per-packet one-way delay: 28.487 ms

Loss rate: 0.00%

Run 8: Report of Vivace-LTE — Data Link

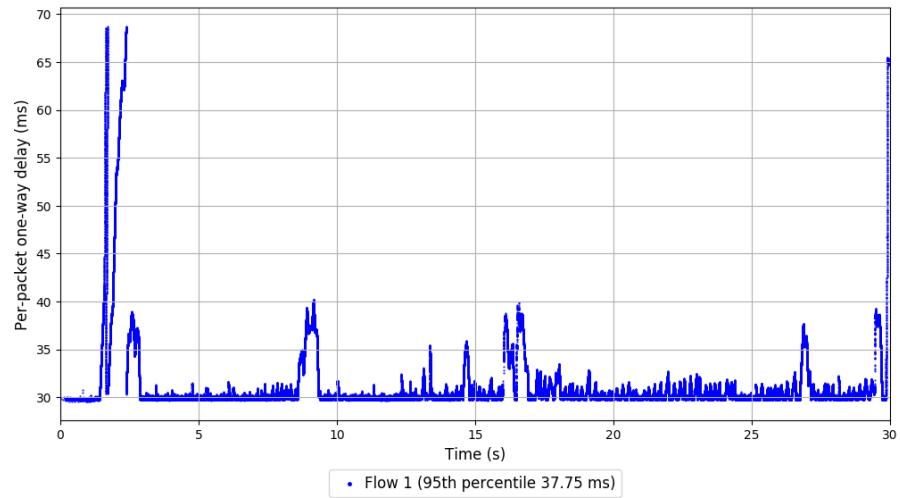
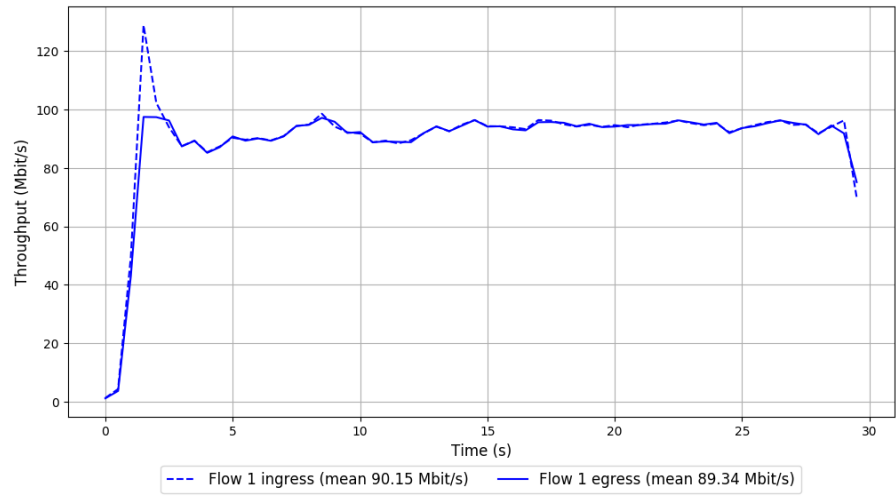


Run 9: Statistics of Vivace-LTE

Start at: 2018-02-13 05:36:15
End at: 2018-02-13 05:36:45
Local clock offset: -1.343 ms
Remote clock offset: -8.234 ms

Below is generated by plot.py at 2018-02-13 07:00:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.34 Mbit/s
95th percentile per-packet one-way delay: 37.753 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 89.34 Mbit/s
95th percentile per-packet one-way delay: 37.753 ms
Loss rate: 0.80%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-13 06:01:59
End at: 2018-02-13 06:02:29
Local clock offset: -1.094 ms
Remote clock offset: -7.763 ms

Below is generated by plot.py at 2018-02-13 07:00:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.60 Mbit/s
95th percentile per-packet one-way delay: 58.330 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 87.60 Mbit/s
95th percentile per-packet one-way delay: 58.330 ms
Loss rate: 1.78%

Run 10: Report of Vivace-LTE — Data Link

