

Pantheon Report

Generated at 2018-01-09 02:04:26 (UTC).

Data path: AWS India 1 Ethernet (*local*) → India Ethernet (*remote*).

Repeated the test of 14 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).

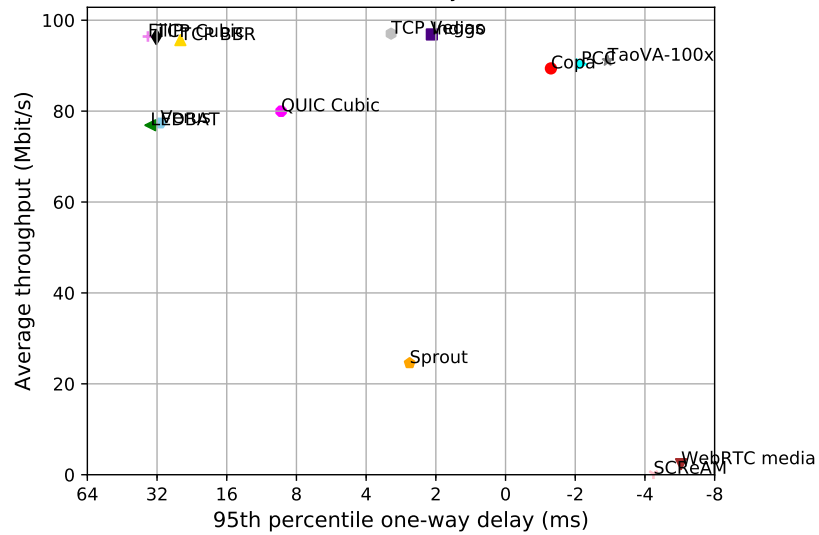
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

NTP offsets were measured against **nets.org.sg** and have been applied to correct the timestamps in logs.

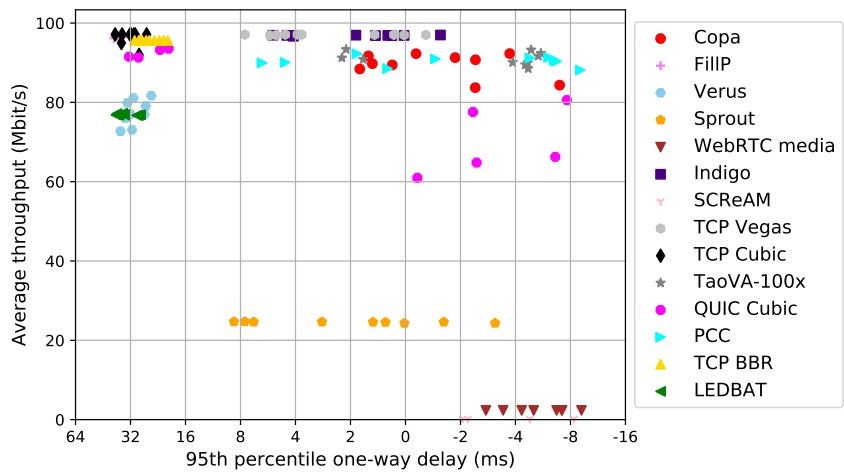
Git summary:

```
branch: master @ 56d1792c316a5efca3f2d21342905405fedffb48
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
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/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from AWS India 1 Ethernet to India Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from AWS India 1 Ethernet to India Ethernet, 10 runs of 30s each per scheme



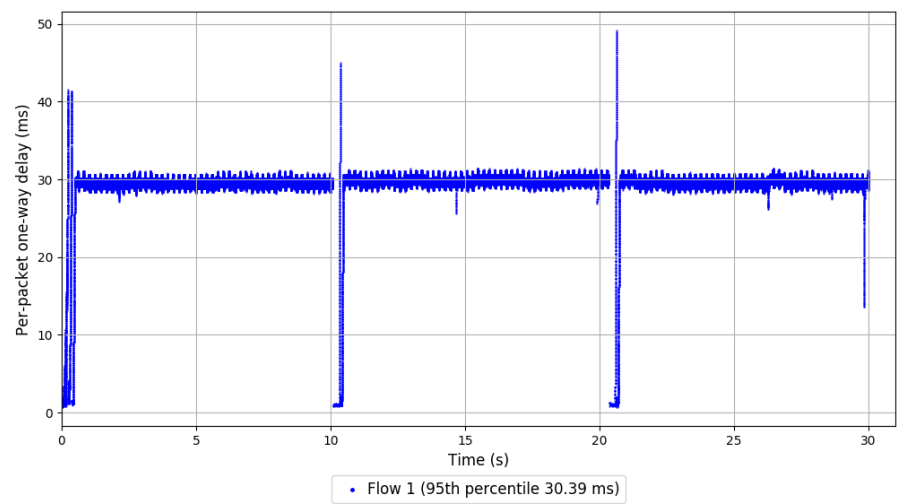
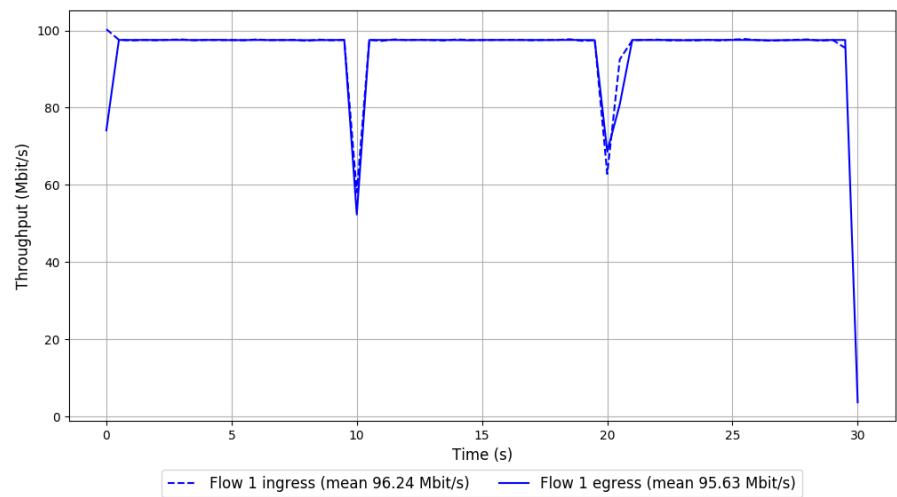
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	95.63	25.37	0.55
TCP Cubic	9	96.32	32.23	0.45
LEDBAT	10	76.89	34.20	0.23
PCC	10	90.34	-2.12	0.28
QUIC Cubic	9	79.97	9.32	0.19
SCReAM	4	0.21	-4.35	0.00
WebRTC media	8	2.32	-5.73	0.00
Sprout	9	24.56	2.60	0.00
TaoVA-100x	10	91.09	-2.76	0.00
TCP Vegas	10	97.04	3.12	0.14
Verus	10	77.39	30.94	18.79
Copa	10	89.40	-1.30	0.00
FillP	9	96.42	35.04	26.59
Indigo	10	96.87	2.08	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-01-08 21:52:59
End at: 2018-01-08 21:53:29
Local clock offset: 4.485 ms
Remote clock offset: -17.813 ms

Below is generated by plot.py at 2018-01-09 01:26:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 30.394 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 30.394 ms
Loss rate: 0.55%

Run 1: Report of TCP BBR — Data Link

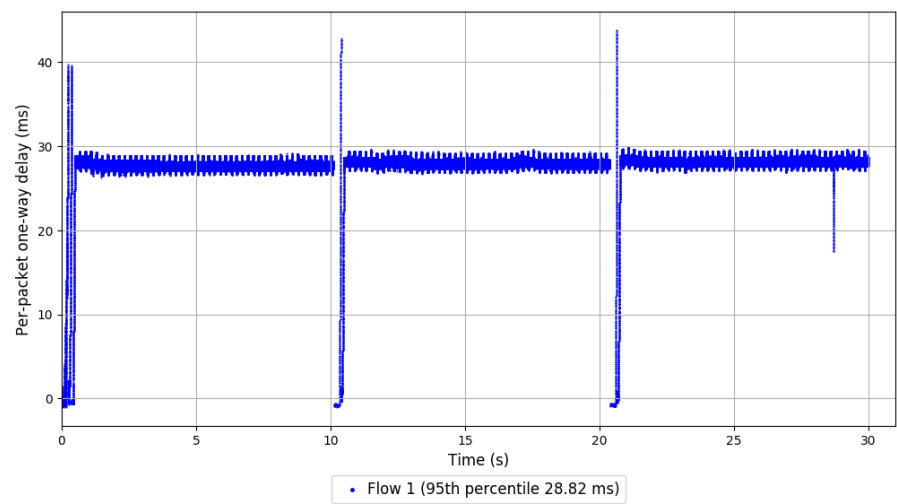
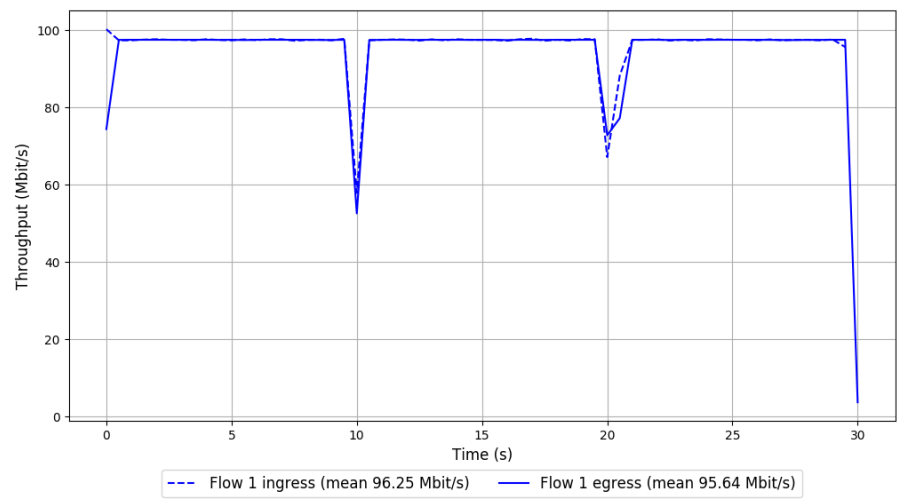


Run 2: Statistics of TCP BBR

Start at: 2018-01-08 22:10:30
End at: 2018-01-08 22:11:00
Local clock offset: 5.907 ms
Remote clock offset: -20.263 ms

Below is generated by plot.py at 2018-01-09 01:26:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.64 Mbit/s
95th percentile per-packet one-way delay: 28.822 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 95.64 Mbit/s
95th percentile per-packet one-way delay: 28.822 ms
Loss rate: 0.54%

Run 2: Report of TCP BBR — Data Link

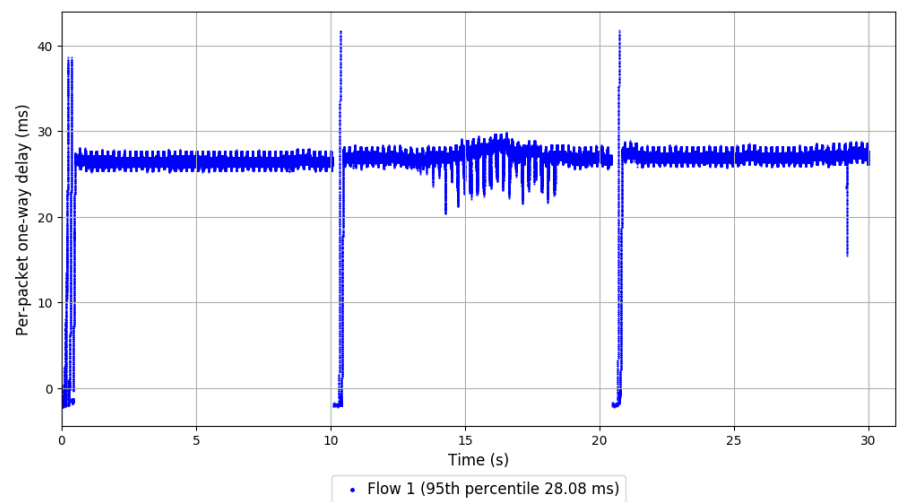
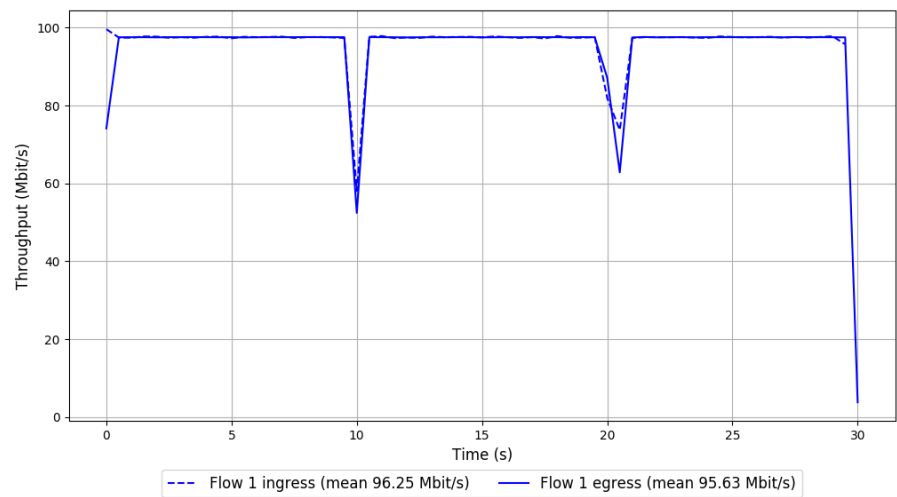


Run 3: Statistics of TCP BBR

Start at: 2018-01-08 22:27:54
End at: 2018-01-08 22:28:24
Local clock offset: 9.174 ms
Remote clock offset: -19.457 ms

Below is generated by plot.py at 2018-01-09 01:26:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 28.077 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 28.077 ms
Loss rate: 0.54%

Run 3: Report of TCP BBR — Data Link

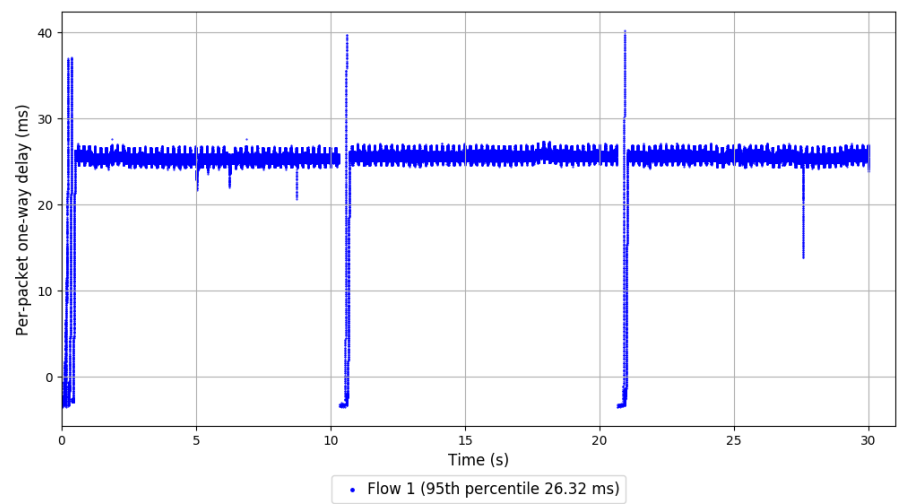
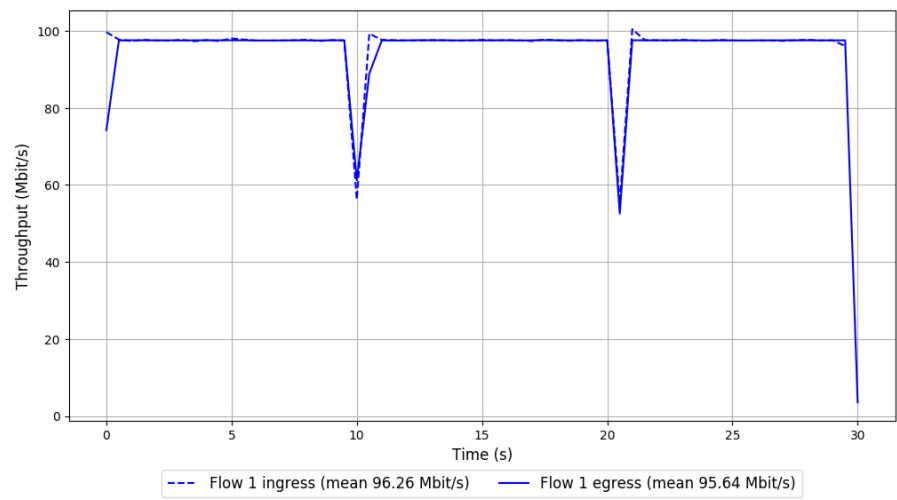


Run 4: Statistics of TCP BBR

Start at: 2018-01-08 22:45:25
End at: 2018-01-08 22:45:55
Local clock offset: 11.522 ms
Remote clock offset: -19.591 ms

Below is generated by plot.py at 2018-01-09 01:26:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.64 Mbit/s
95th percentile per-packet one-way delay: 26.319 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 95.64 Mbit/s
95th percentile per-packet one-way delay: 26.319 ms
Loss rate: 0.55%

Run 4: Report of TCP BBR — Data Link

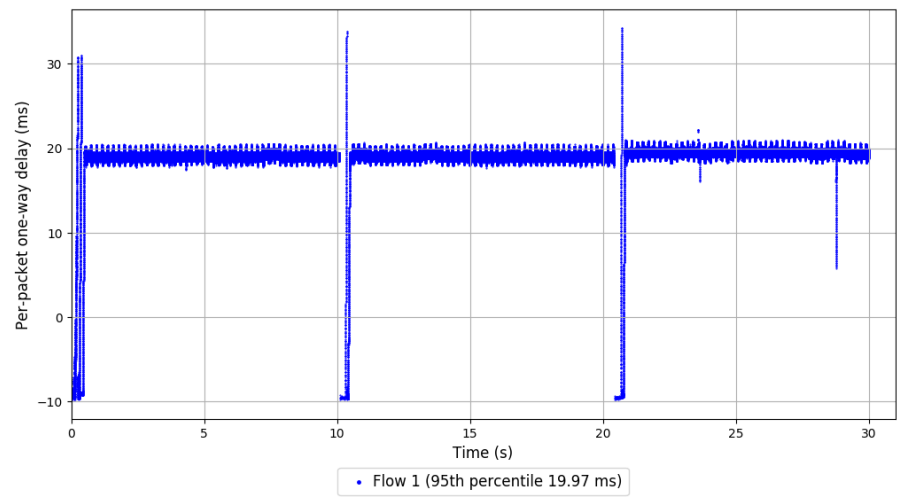
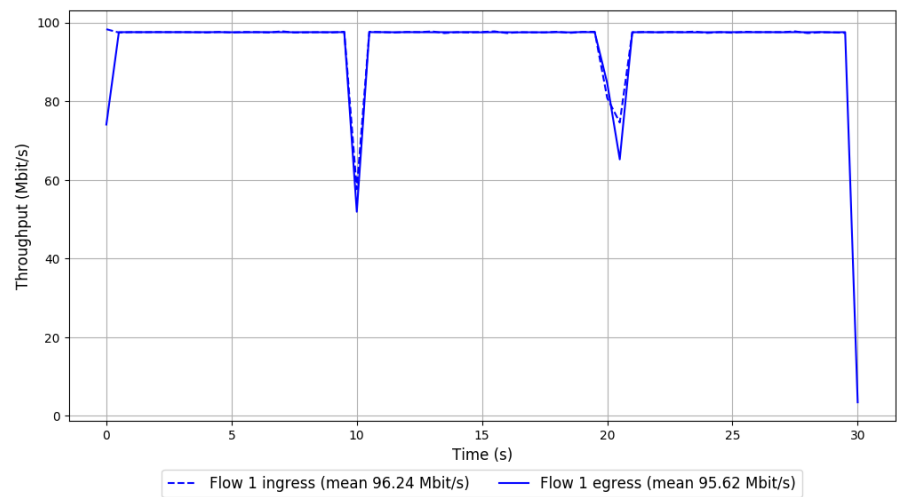


Run 5: Statistics of TCP BBR

Start at: 2018-01-08 23:03:26
End at: 2018-01-08 23:03:56
Local clock offset: 18.195 ms
Remote clock offset: -20.582 ms

Below is generated by plot.py at 2018-01-09 01:26:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 19.971 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 19.971 ms
Loss rate: 0.55%

Run 5: Report of TCP BBR — Data Link

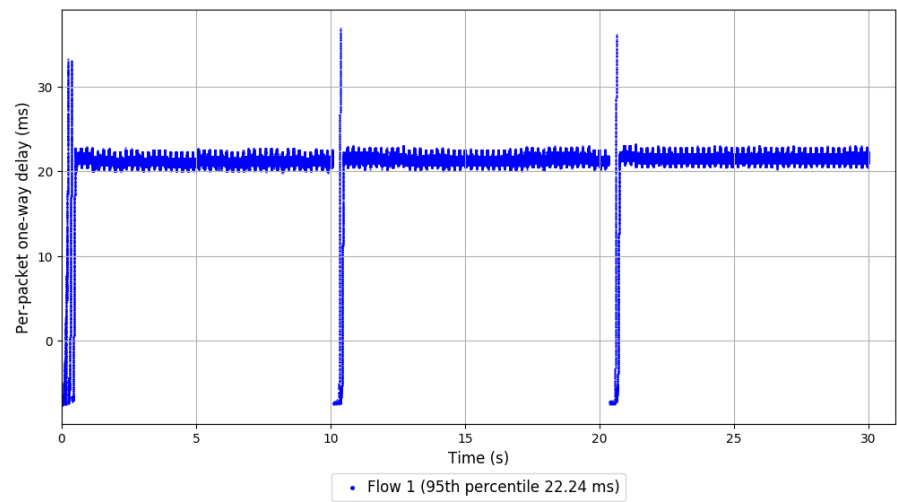
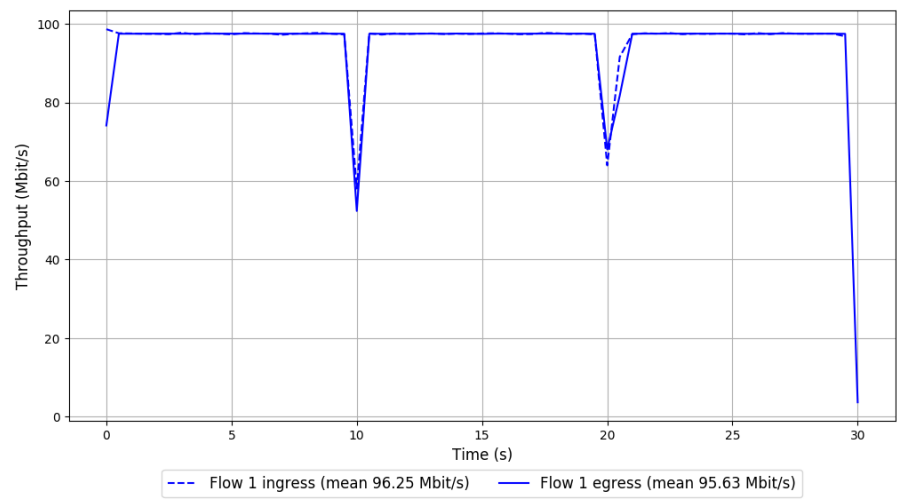


Run 6: Statistics of TCP BBR

Start at: 2018-01-08 23:20:44
End at: 2018-01-08 23:21:14
Local clock offset: 16.779 ms
Remote clock offset: -20.462 ms

Below is generated by plot.py at 2018-01-09 01:26:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 22.236 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 22.236 ms
Loss rate: 0.55%

Run 6: Report of TCP BBR — Data Link

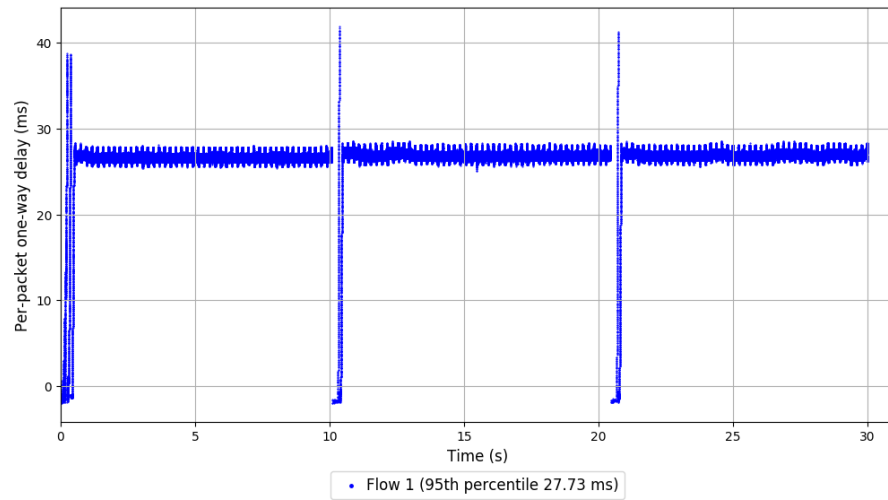
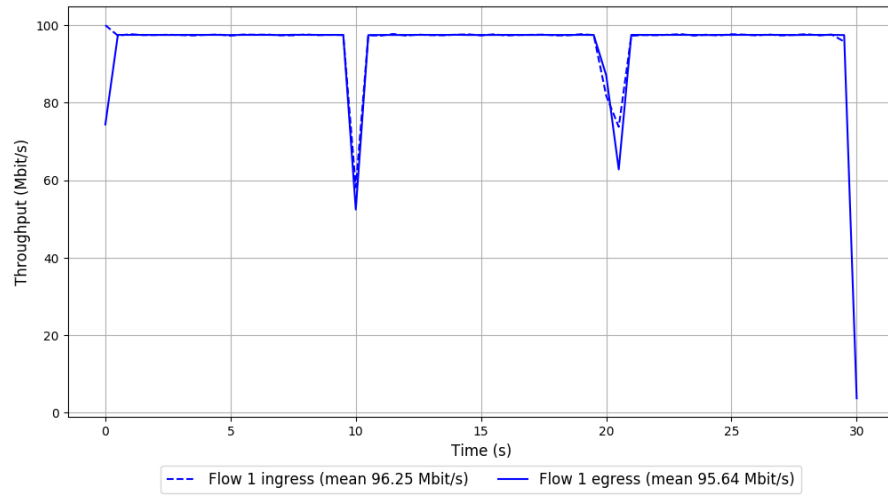


Run 7: Statistics of TCP BBR

Start at: 2018-01-08 23:37:59
End at: 2018-01-08 23:38:29
Local clock offset: 9.77 ms
Remote clock offset: -20.533 ms

Below is generated by plot.py at 2018-01-09 01:26:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.64 Mbit/s
95th percentile per-packet one-way delay: 27.727 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 95.64 Mbit/s
95th percentile per-packet one-way delay: 27.727 ms
Loss rate: 0.54%

Run 7: Report of TCP BBR — Data Link

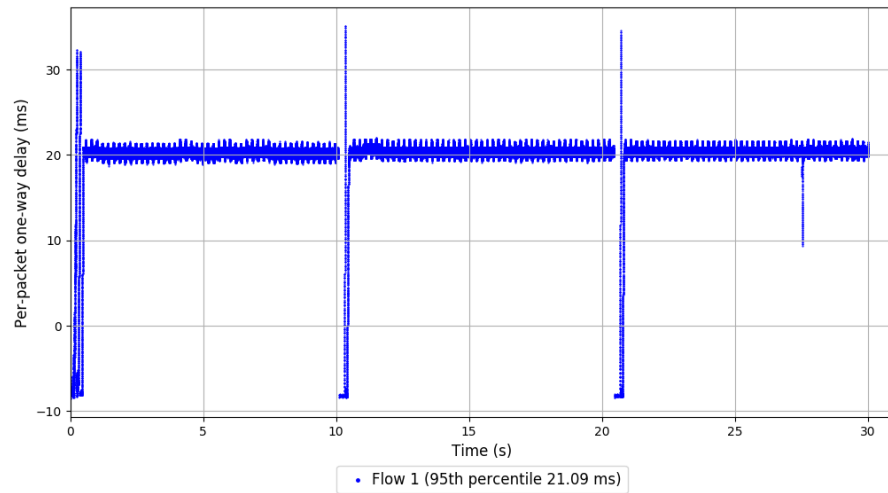
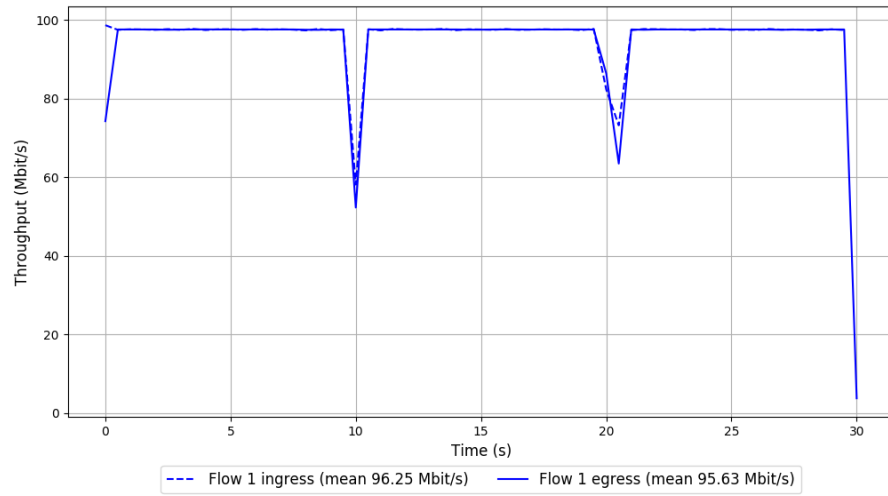


Run 8: Statistics of TCP BBR

Start at: 2018-01-08 23:55:17
End at: 2018-01-08 23:55:47
Local clock offset: 14.309 ms
Remote clock offset: -21.789 ms

Below is generated by plot.py at 2018-01-09 01:26:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 21.088 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 21.088 ms
Loss rate: 0.55%

Run 8: Report of TCP BBR — Data Link

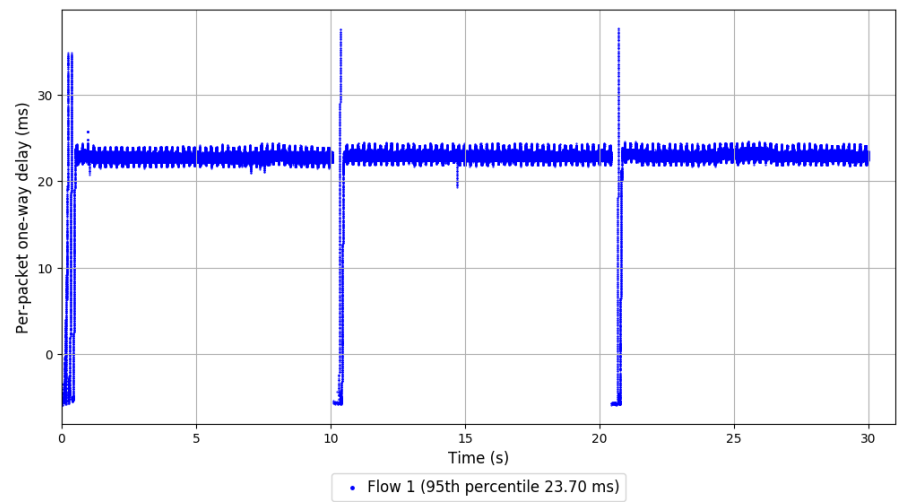
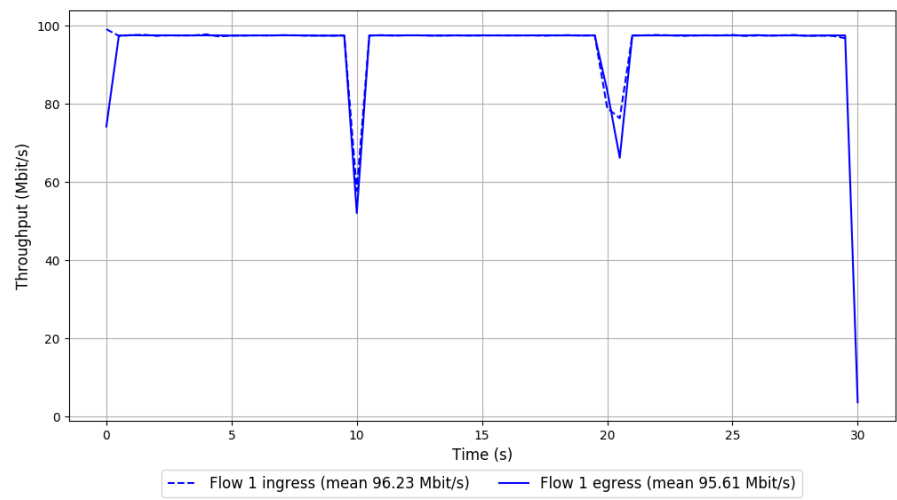


Run 9: Statistics of TCP BBR

Start at: 2018-01-09 00:12:33
End at: 2018-01-09 00:13:03
Local clock offset: 12.39 ms
Remote clock offset: -18.863 ms

Below is generated by plot.py at 2018-01-09 01:29:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 23.702 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 23.702 ms
Loss rate: 0.55%

Run 9: Report of TCP BBR — Data Link

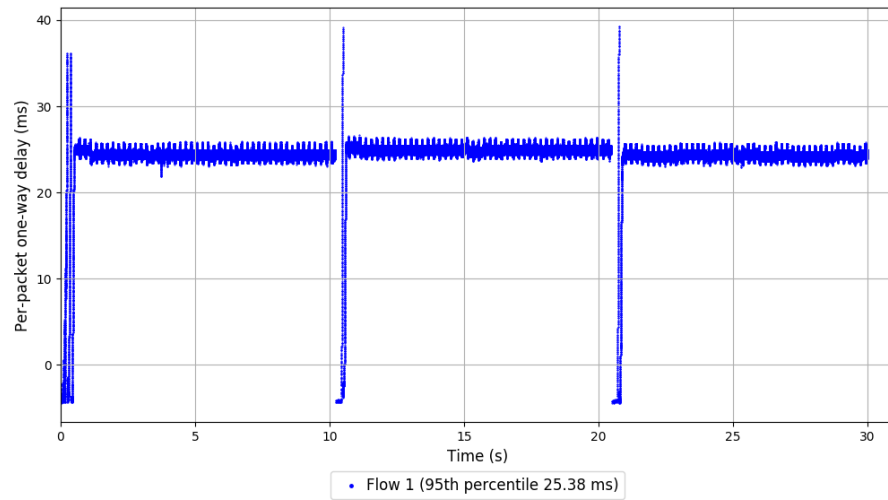
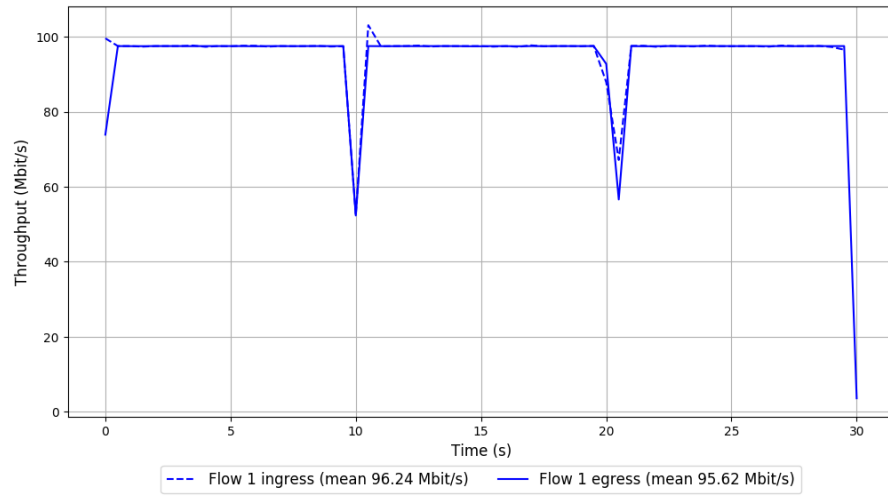


Run 10: Statistics of TCP BBR

Start at: 2018-01-09 00:29:53
End at: 2018-01-09 00:30:23
Local clock offset: 5.224 ms
Remote clock offset: -22.813 ms

Below is generated by plot.py at 2018-01-09 01:29:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 25.375 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 25.375 ms
Loss rate: 0.55%

Run 10: Report of TCP BBR — Data Link

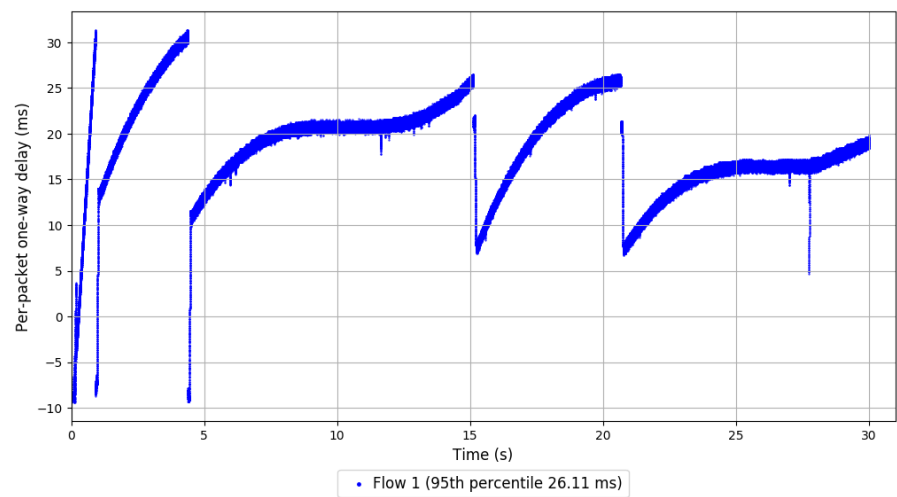
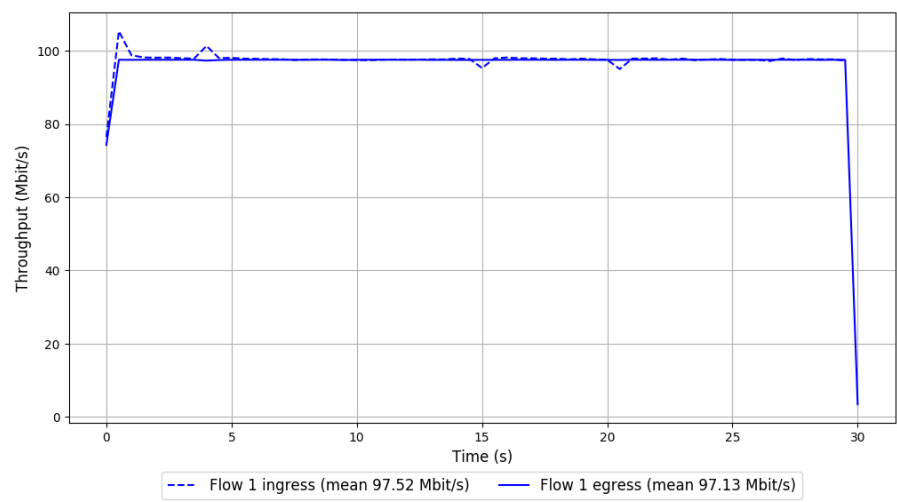


Run 1: Statistics of TCP Cubic

Start at: 2018-01-08 21:55:24
End at: 2018-01-08 21:55:54
Local clock offset: 13.747 ms
Remote clock offset: -19.118 ms

Below is generated by plot.py at 2018-01-09 01:29:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 26.108 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 26.108 ms
Loss rate: 0.30%

Run 1: Report of TCP Cubic — Data Link

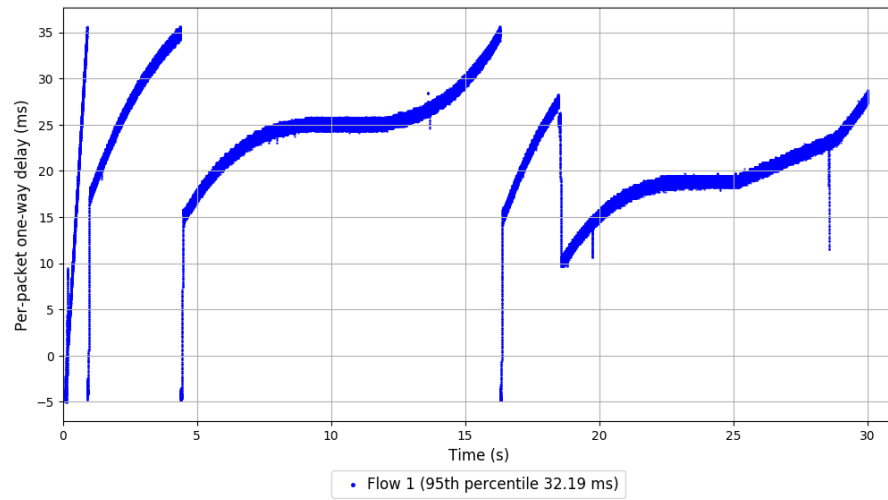
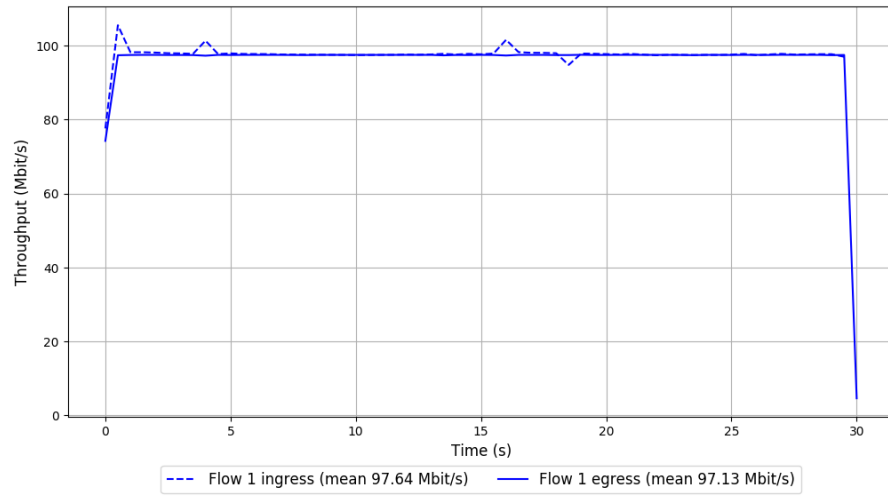


Run 2: Statistics of TCP Cubic

Start at: 2018-01-08 22:12:54
End at: 2018-01-08 22:13:24
Local clock offset: 11.544 ms
Remote clock offset: -18.847 ms

Below is generated by plot.py at 2018-01-09 01:29:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 32.186 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 32.186 ms
Loss rate: 0.41%

Run 2: Report of TCP Cubic — Data Link

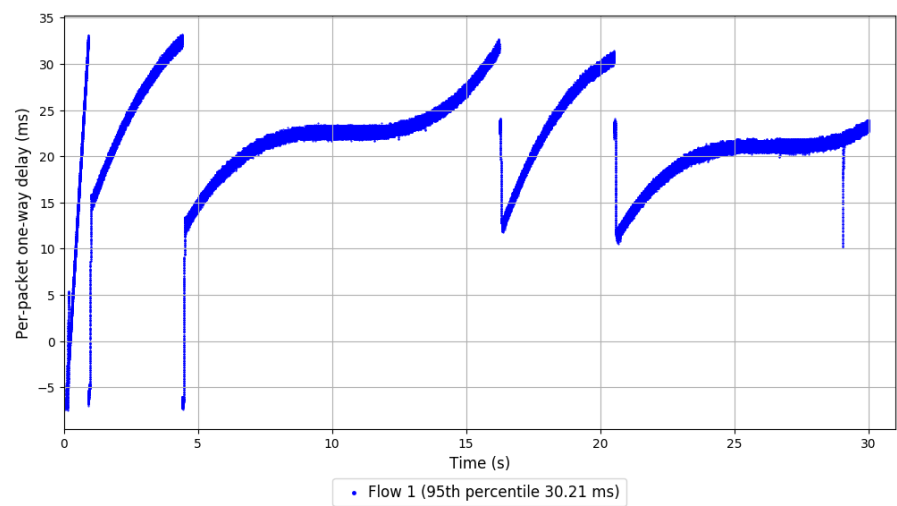
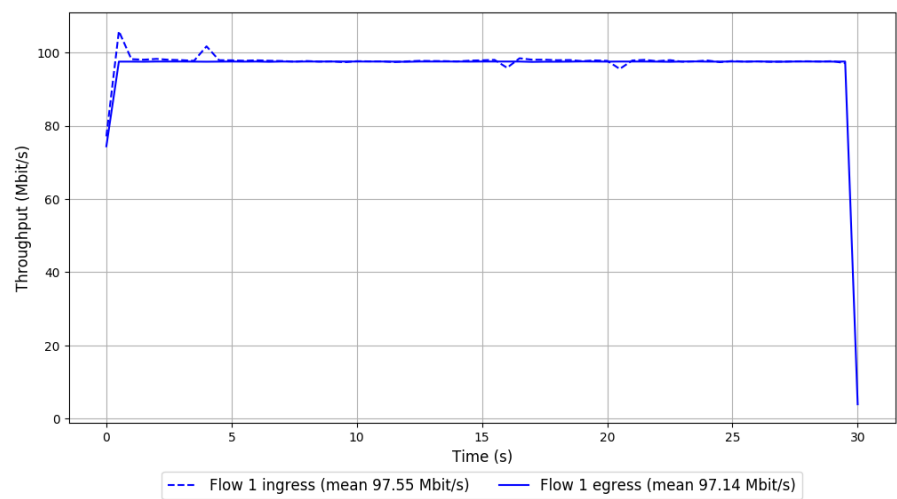


Run 3: Statistics of TCP Cubic

Start at: 2018-01-08 22:30:18
End at: 2018-01-08 22:30:48
Local clock offset: 13.321 ms
Remote clock offset: -20.647 ms

Below is generated by plot.py at 2018-01-09 01:29:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.14 Mbit/s
95th percentile per-packet one-way delay: 30.207 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 97.14 Mbit/s
95th percentile per-packet one-way delay: 30.207 ms
Loss rate: 0.32%

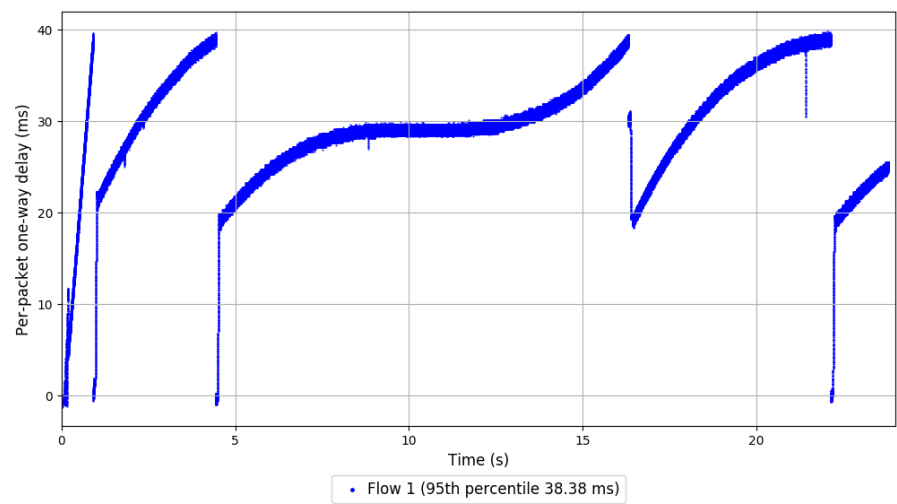
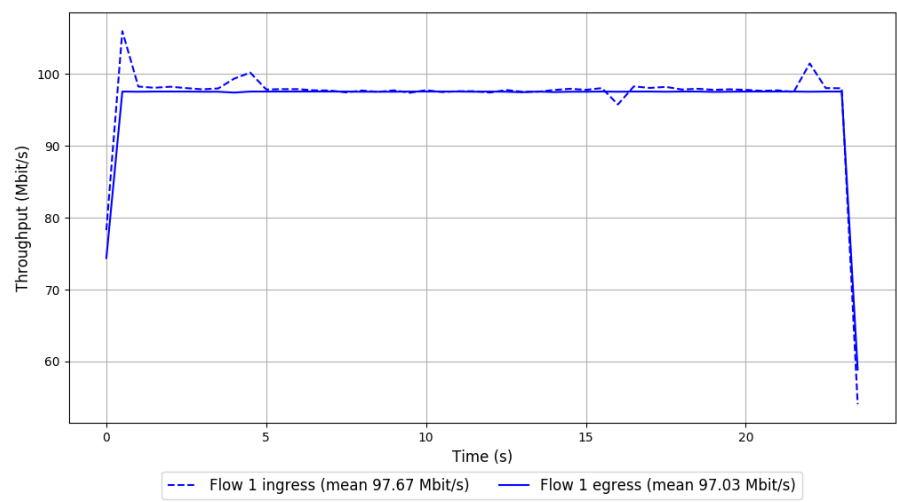
Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-08 22:48:21
End at: 2018-01-08 22:48:51
Local clock offset: 10.274 ms
Remote clock offset: -18.842 ms

Run 4: Report of TCP Cubic — Data Link

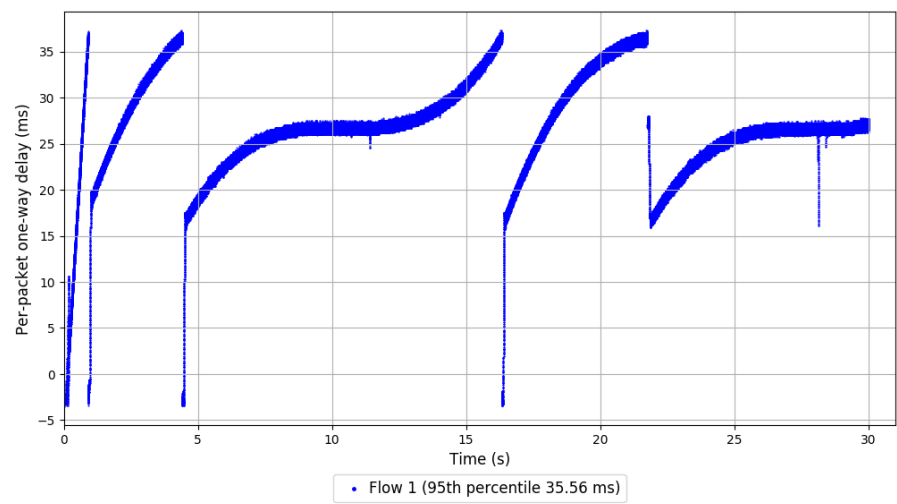
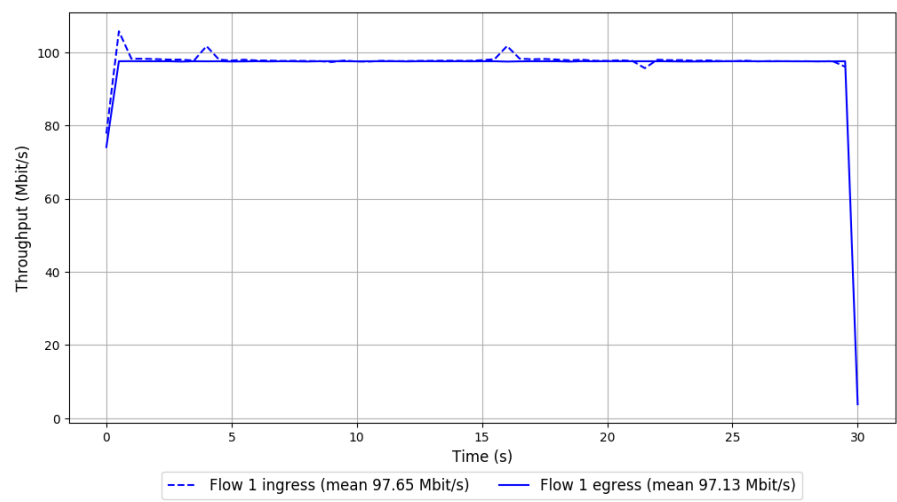


Run 5: Statistics of TCP Cubic

Start at: 2018-01-08 23:05:50
End at: 2018-01-08 23:06:20
Local clock offset: 12.668 ms
Remote clock offset: -19.91 ms

Below is generated by plot.py at 2018-01-09 01:29:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 35.565 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 35.565 ms
Loss rate: 0.43%

Run 5: Report of TCP Cubic — Data Link

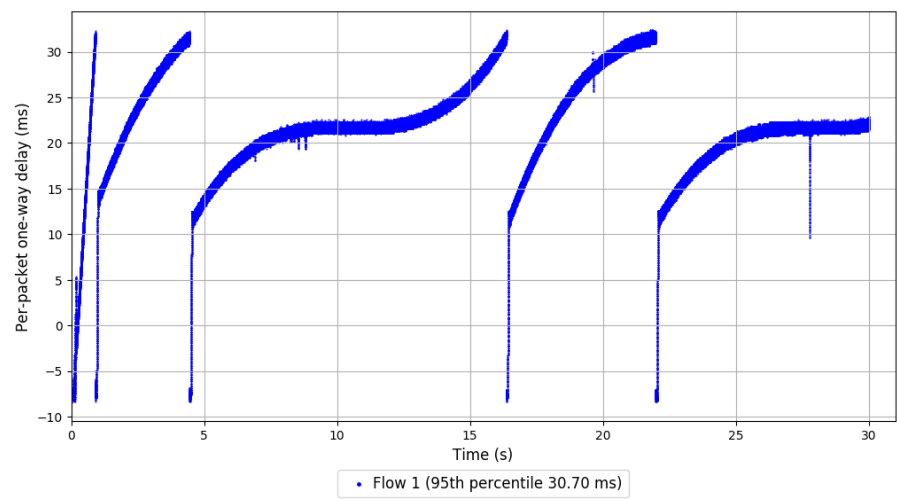
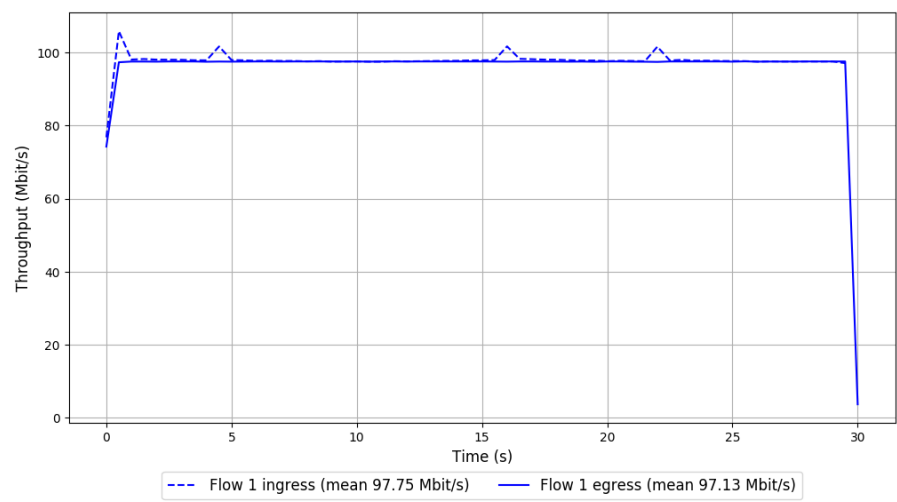


Run 6: Statistics of TCP Cubic

Start at: 2018-01-08 23:23:05
End at: 2018-01-08 23:23:36
Local clock offset: 18.187 ms
Remote clock offset: -20.038 ms

Below is generated by plot.py at 2018-01-09 01:29:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 30.696 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 30.696 ms
Loss rate: 0.54%

Run 6: Report of TCP Cubic — Data Link

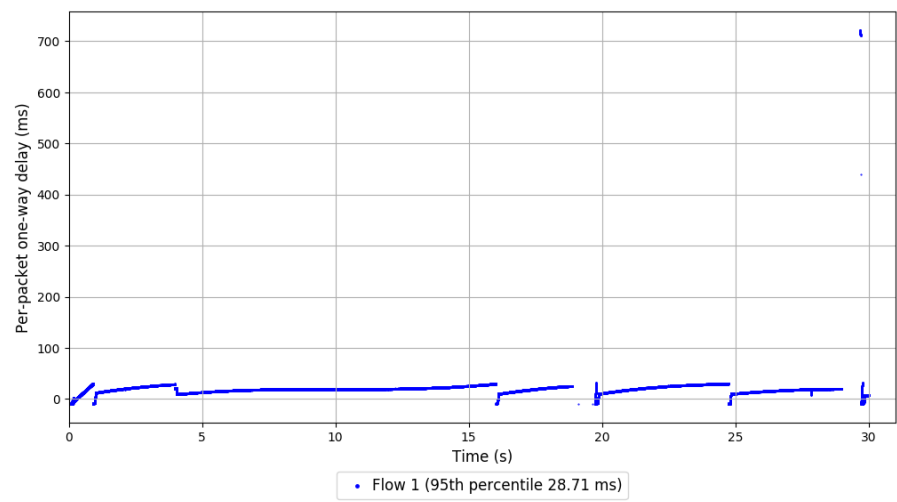
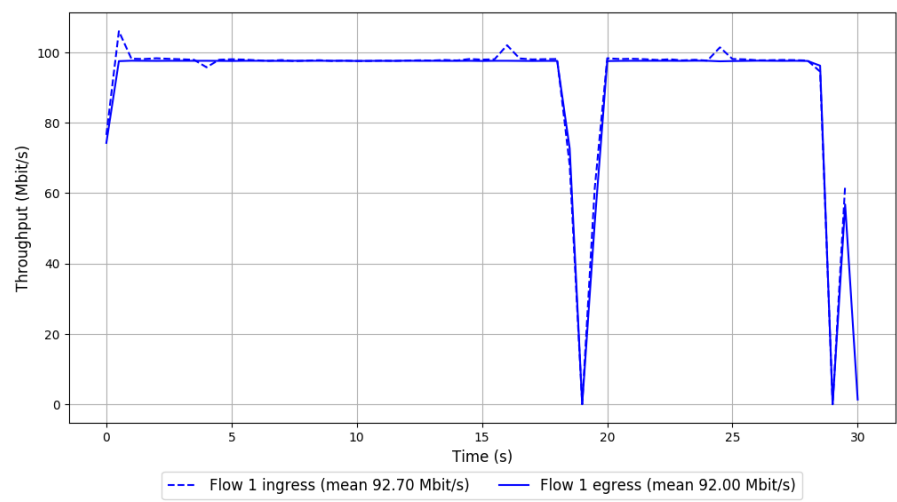


Run 7: Statistics of TCP Cubic

Start at: 2018-01-08 23:40:20
End at: 2018-01-08 23:40:50
Local clock offset: 15.422 ms
Remote clock offset: -22.559 ms

Below is generated by plot.py at 2018-01-09 01:31:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.00 Mbit/s
95th percentile per-packet one-way delay: 28.708 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 92.00 Mbit/s
95th percentile per-packet one-way delay: 28.708 ms
Loss rate: 0.70%

Run 7: Report of TCP Cubic — Data Link

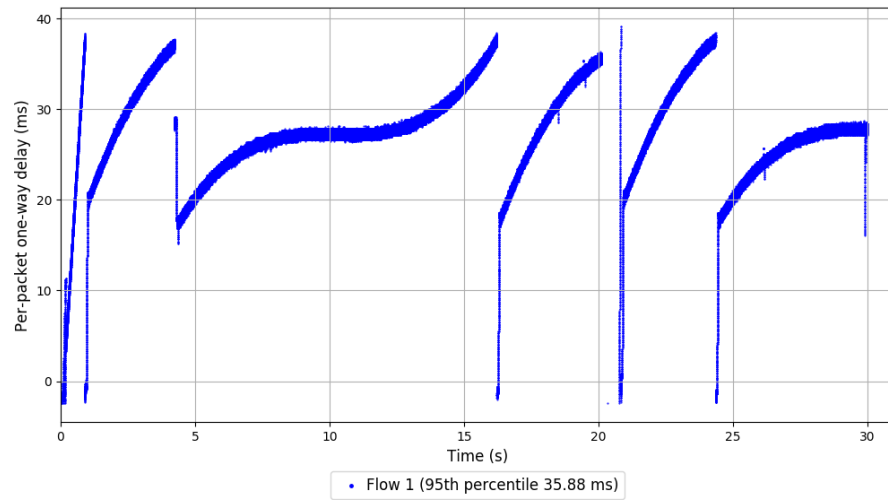
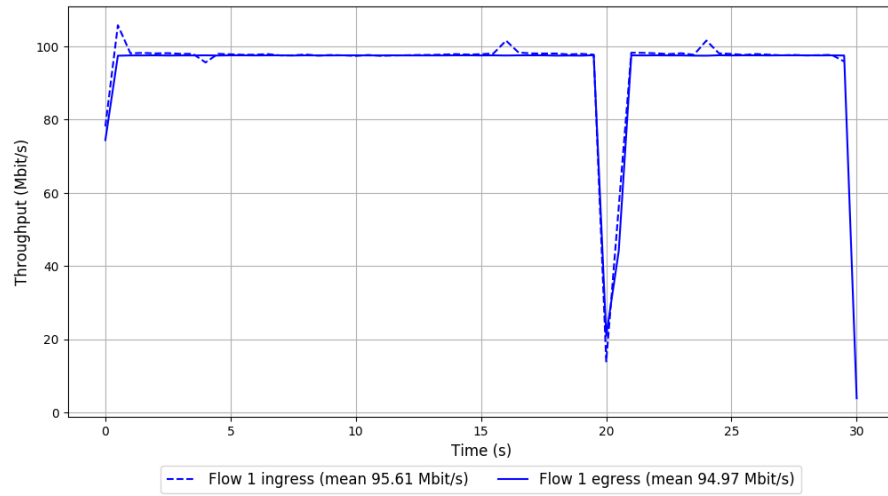


Run 8: Statistics of TCP Cubic

Start at: 2018-01-08 23:57:38
End at: 2018-01-08 23:58:08
Local clock offset: 8.837 ms
Remote clock offset: -21.226 ms

Below is generated by plot.py at 2018-01-09 01:31:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.97 Mbit/s
95th percentile per-packet one-way delay: 35.881 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 94.97 Mbit/s
95th percentile per-packet one-way delay: 35.881 ms
Loss rate: 0.58%

Run 8: Report of TCP Cubic — Data Link

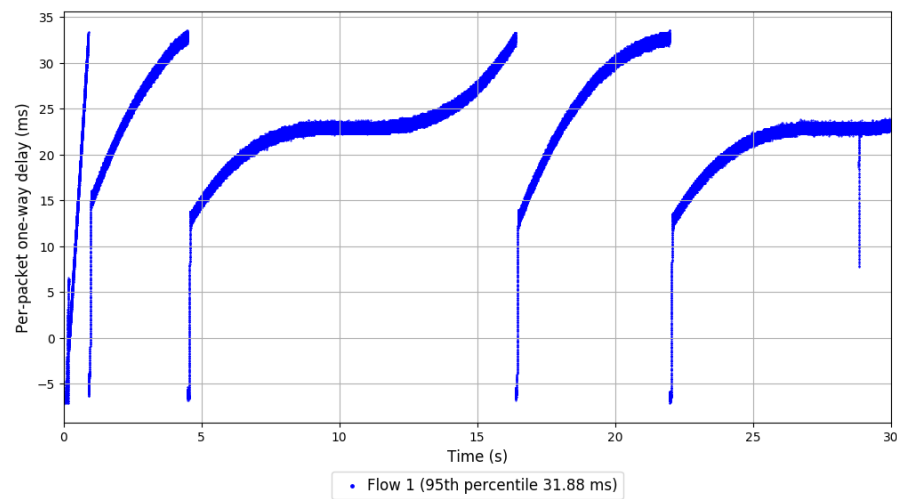
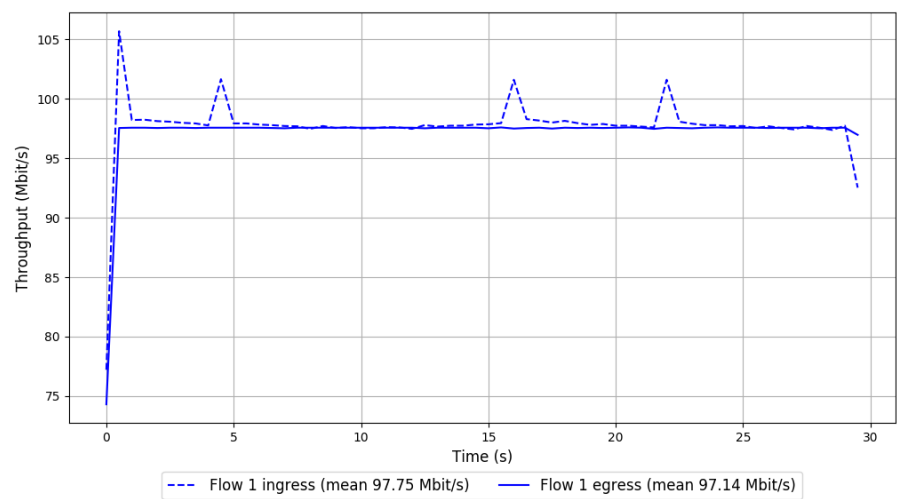


Run 9: Statistics of TCP Cubic

Start at: 2018-01-09 00:14:59
End at: 2018-01-09 00:15:29
Local clock offset: 12.764 ms
Remote clock offset: -19.521 ms

Below is generated by plot.py at 2018-01-09 01:32:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.14 Mbit/s
95th percentile per-packet one-way delay: 31.877 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 97.14 Mbit/s
95th percentile per-packet one-way delay: 31.877 ms
Loss rate: 0.53%

Run 9: Report of TCP Cubic — Data Link

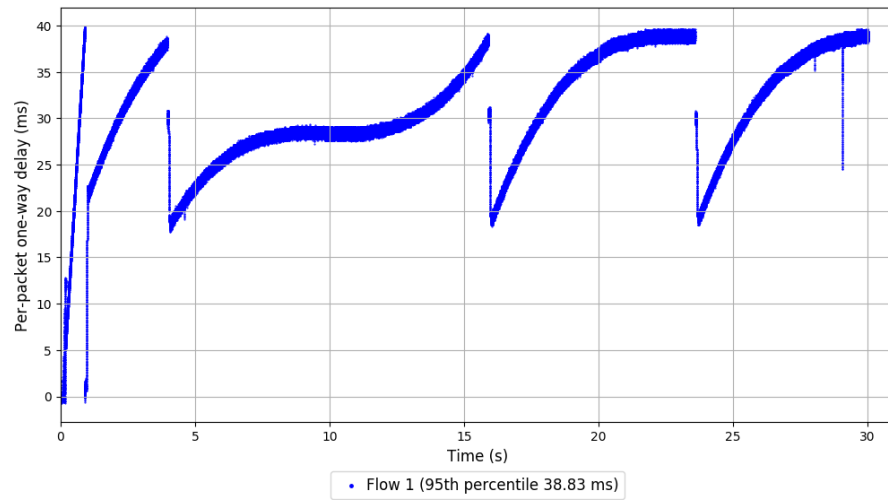
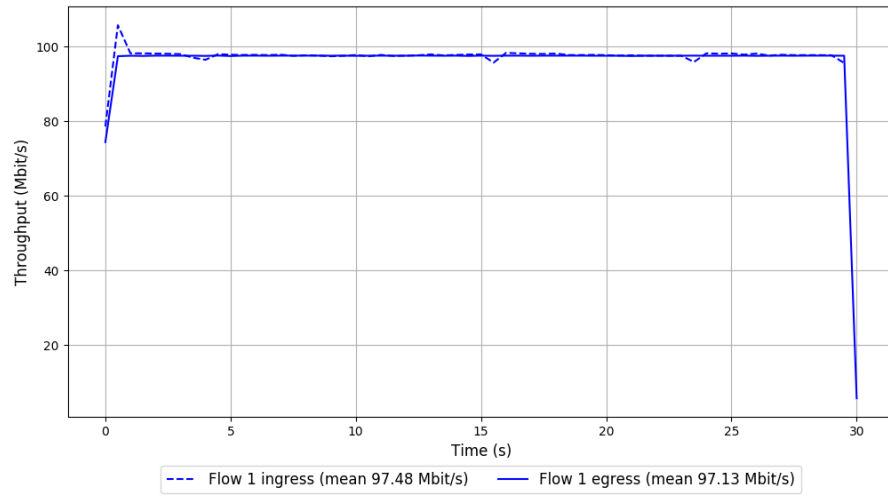


Run 10: Statistics of TCP Cubic

Start at: 2018-01-09 00:32:19
End at: 2018-01-09 00:32:49
Local clock offset: 3.406 ms
Remote clock offset: -20.759 ms

Below is generated by plot.py at 2018-01-09 01:32:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 38.834 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 38.834 ms
Loss rate: 0.22%

Run 10: Report of TCP Cubic — Data Link

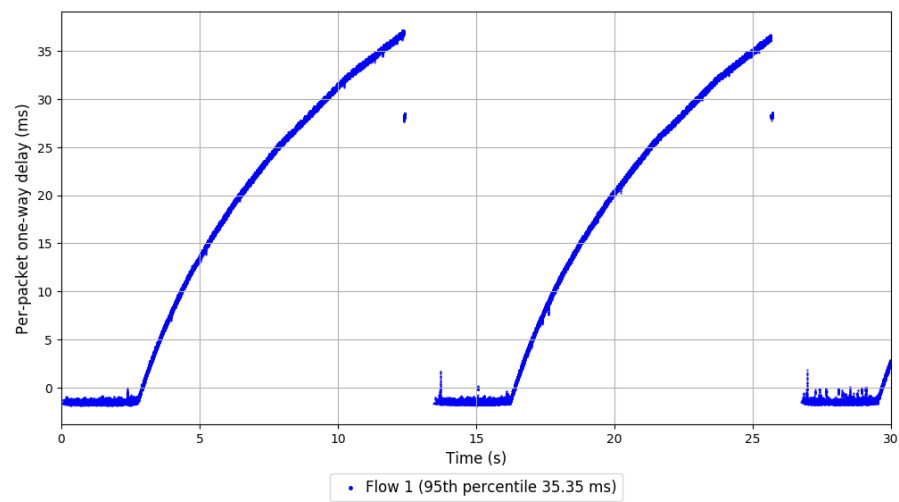
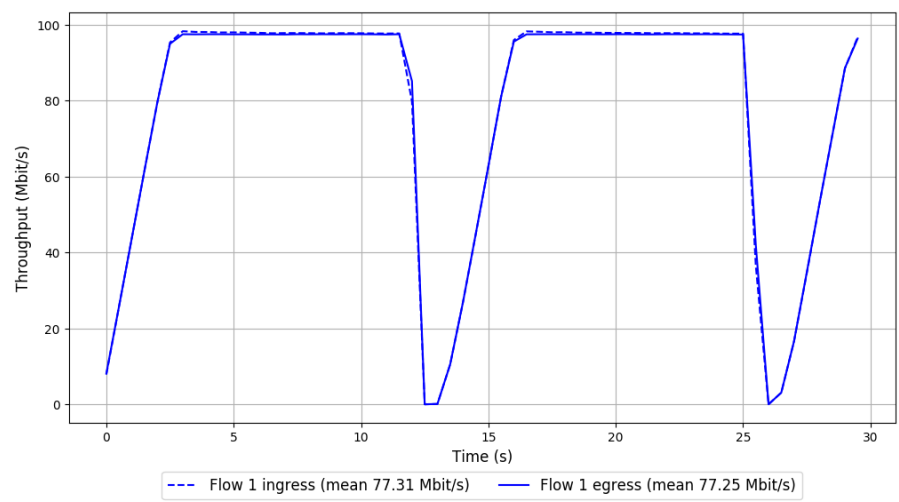


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-08 22:03:38
End at: 2018-01-08 22:04:08
Local clock offset: 8.249 ms
Remote clock offset: -17.967 ms

# Below is generated by plot.py at 2018-01-09 01:32:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.25 Mbit/s
95th percentile per-packet one-way delay: 35.349 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 77.25 Mbit/s
95th percentile per-packet one-way delay: 35.349 ms
Loss rate: 0.07%
```

Run 1: Report of LEDBAT — Data Link

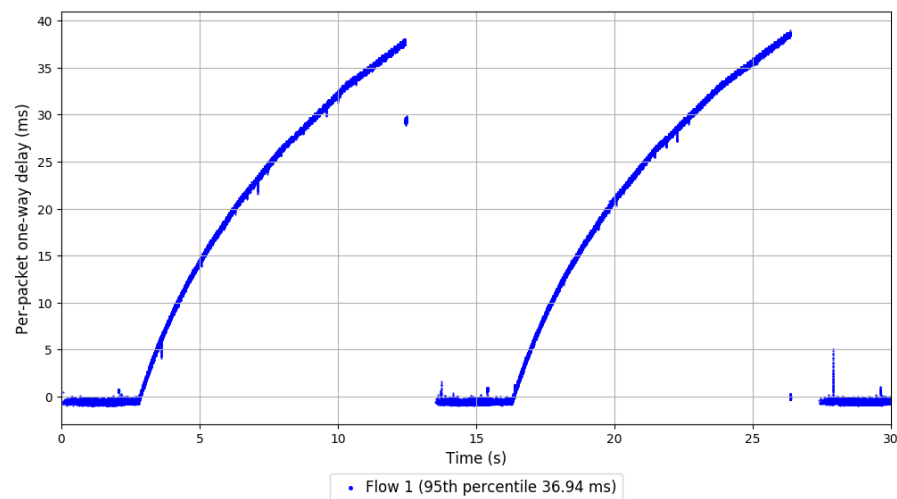
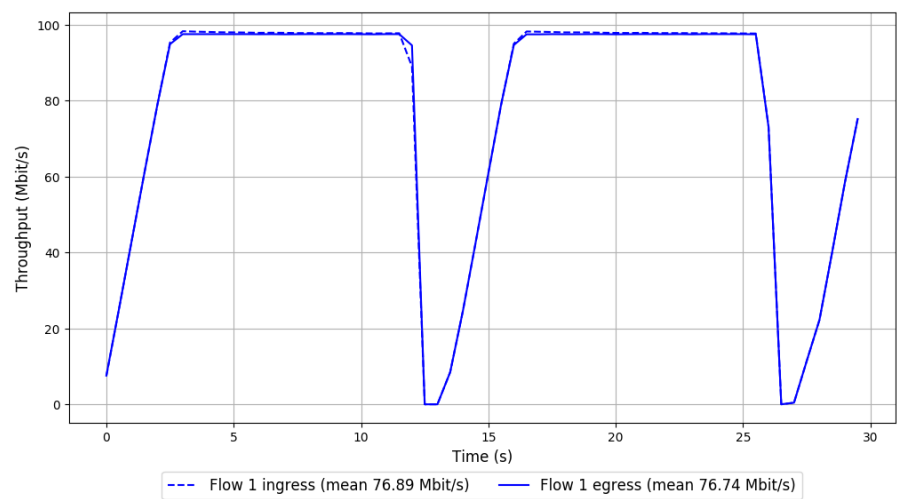


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-08 22:20:58
End at: 2018-01-08 22:21:28
Local clock offset: 8.958 ms
Remote clock offset: -17.972 ms

# Below is generated by plot.py at 2018-01-09 01:32:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.74 Mbit/s
95th percentile per-packet one-way delay: 36.940 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 76.74 Mbit/s
95th percentile per-packet one-way delay: 36.940 ms
Loss rate: 0.20%
```

Run 2: Report of LEDBAT — Data Link

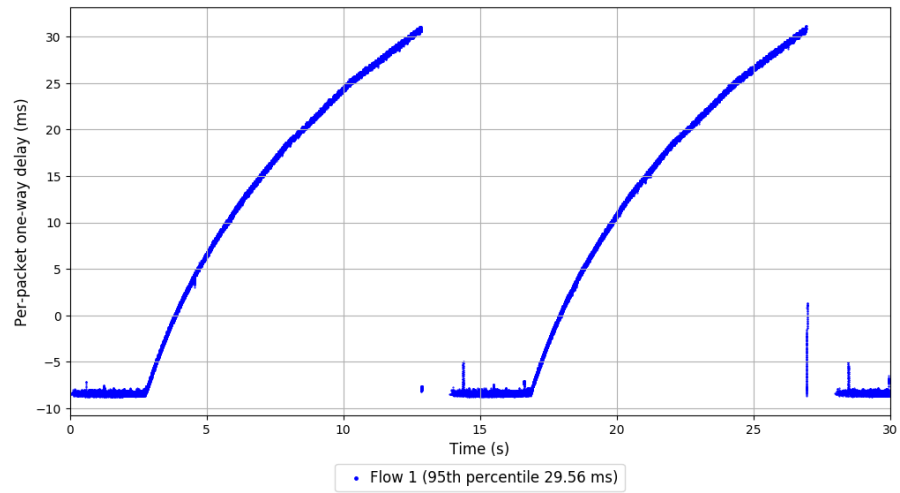
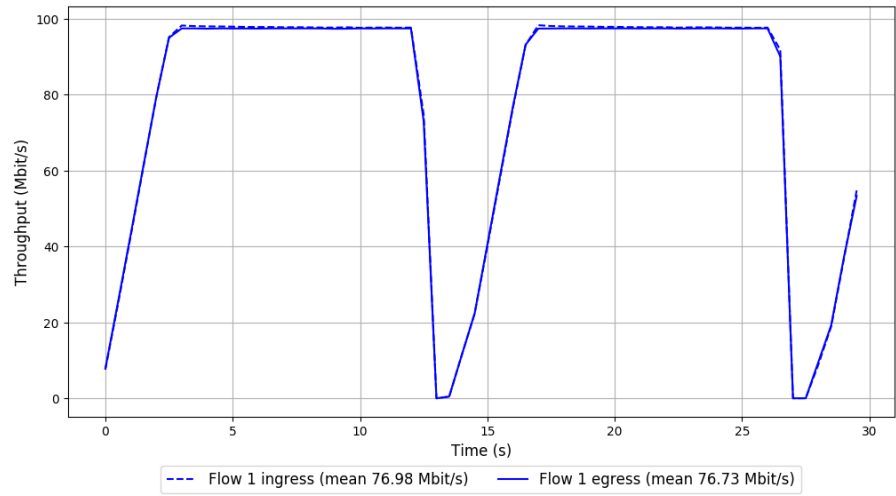


Run 3: Statistics of LEDBAT

Start at: 2018-01-08 22:38:31
End at: 2018-01-08 22:39:01
Local clock offset: 16.151 ms
Remote clock offset: -19.67 ms

Below is generated by plot.py at 2018-01-09 01:32:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.73 Mbit/s
95th percentile per-packet one-way delay: 29.562 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 76.73 Mbit/s
95th percentile per-packet one-way delay: 29.562 ms
Loss rate: 0.33%

Run 3: Report of LEDBAT — Data Link

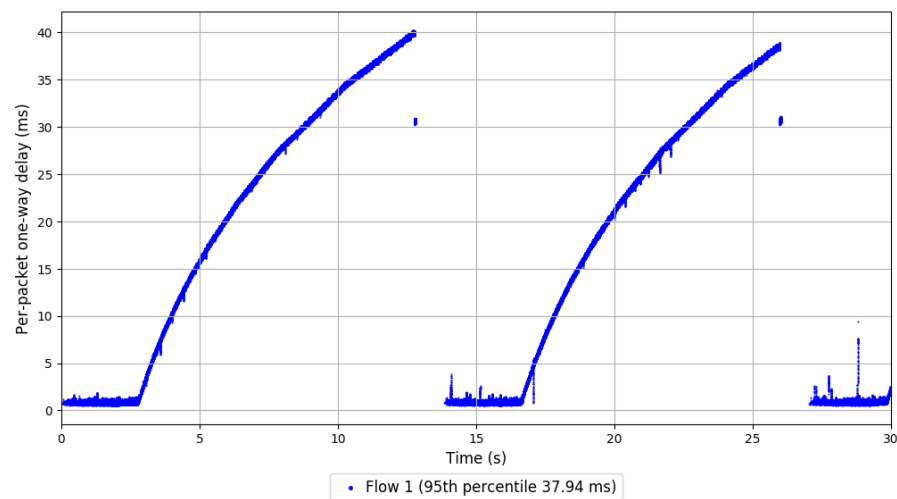
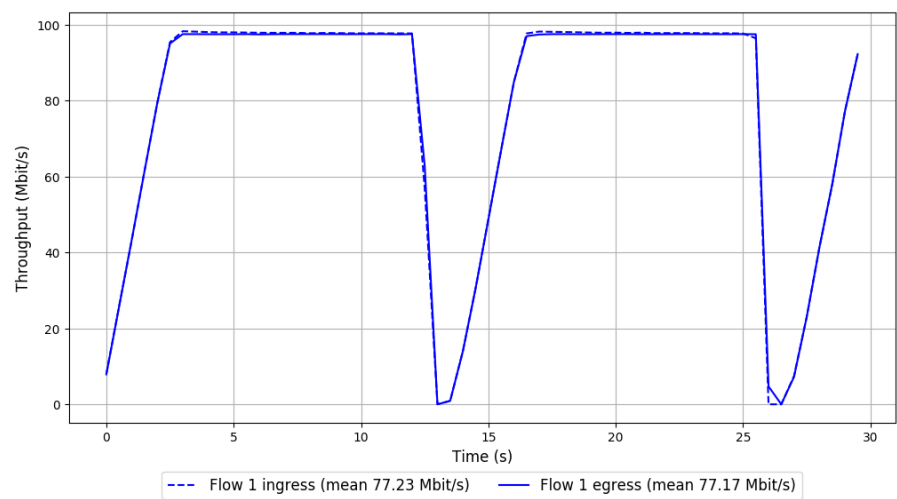


Run 4: Statistics of LEDBAT

Start at: 2018-01-08 22:56:31
End at: 2018-01-08 22:57:01
Local clock offset: 9.349 ms
Remote clock offset: -18.813 ms

Below is generated by plot.py at 2018-01-09 01:32:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.17 Mbit/s
95th percentile per-packet one-way delay: 37.942 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 77.17 Mbit/s
95th percentile per-packet one-way delay: 37.942 ms
Loss rate: 0.07%

Run 4: Report of LEDBAT — Data Link

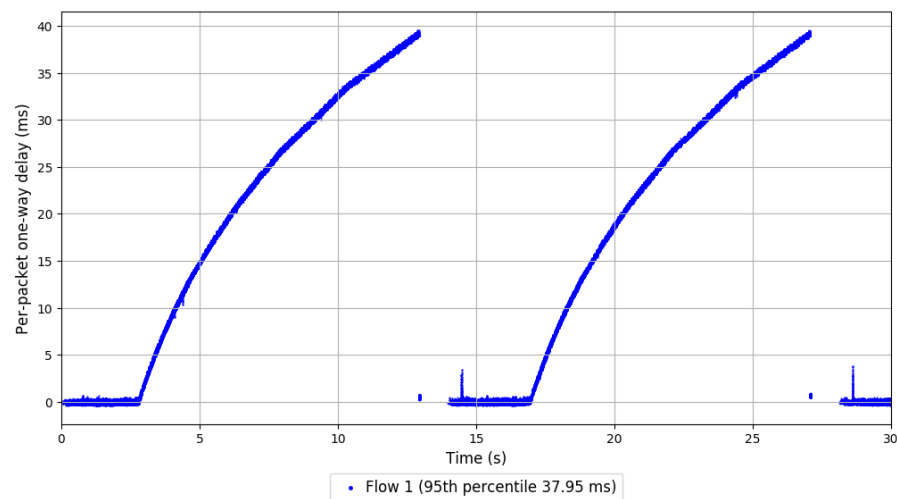
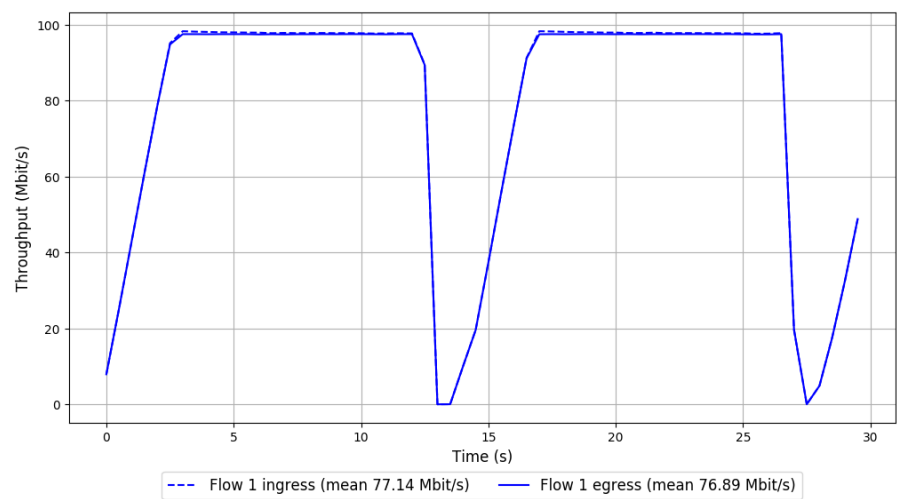


Run 5: Statistics of LEDBAT

Start at: 2018-01-08 23:13:55
End at: 2018-01-08 23:14:25
Local clock offset: 8.856 ms
Remote clock offset: -20.861 ms

Below is generated by plot.py at 2018-01-09 01:33:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.89 Mbit/s
95th percentile per-packet one-way delay: 37.949 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 76.89 Mbit/s
95th percentile per-packet one-way delay: 37.949 ms
Loss rate: 0.33%

Run 5: Report of LEDBAT — Data Link

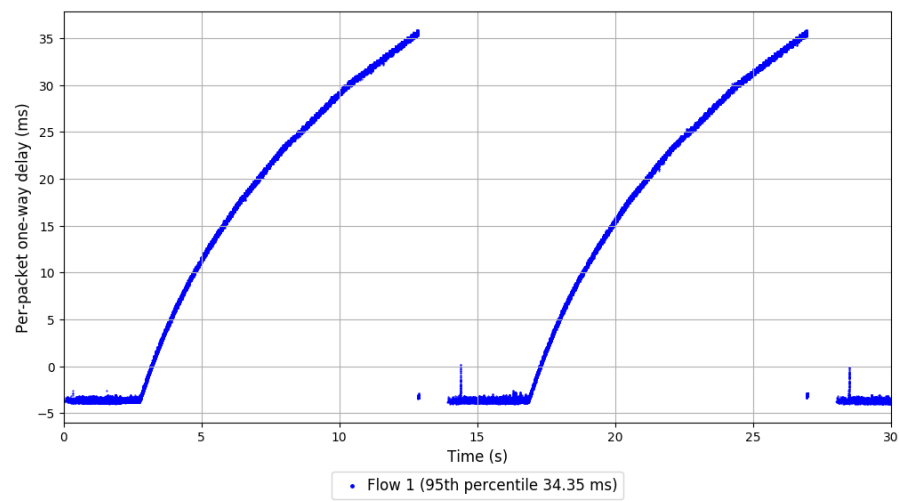
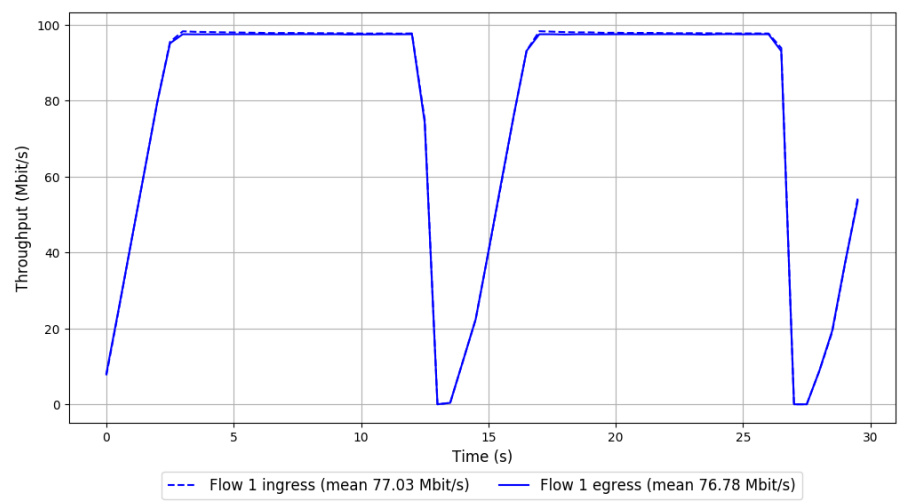


Run 6: Statistics of LEDBAT

Start at: 2018-01-08 23:31:07
End at: 2018-01-08 23:31:37
Local clock offset: 11.066 ms
Remote clock offset: -21.961 ms

Below is generated by plot.py at 2018-01-09 01:33:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.78 Mbit/s
95th percentile per-packet one-way delay: 34.346 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 76.78 Mbit/s
95th percentile per-packet one-way delay: 34.346 ms
Loss rate: 0.33%

Run 6: Report of LEDBAT — Data Link

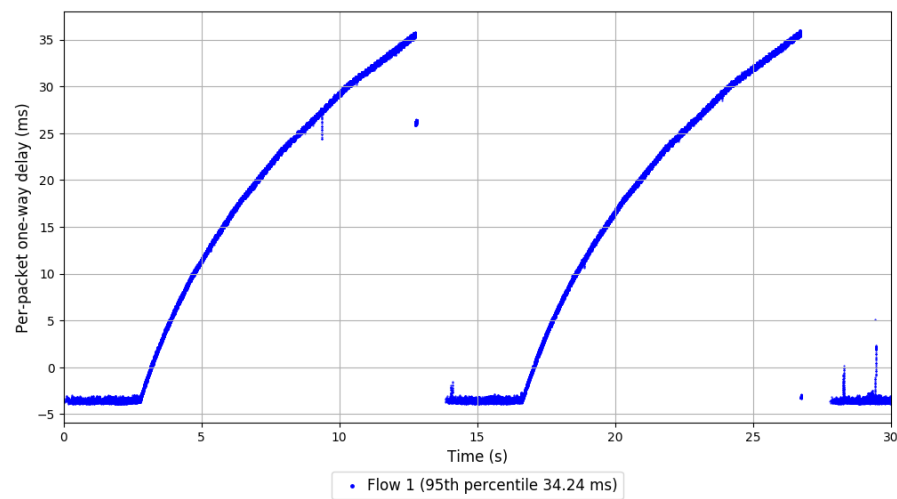
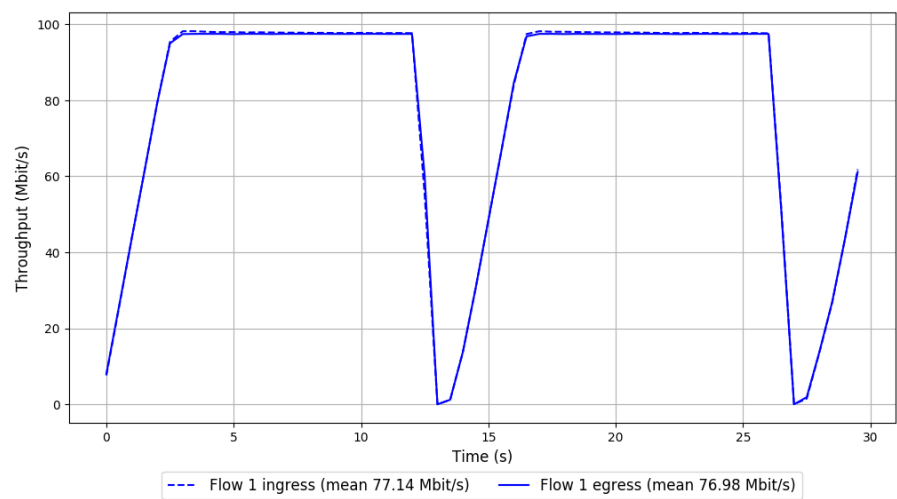


Run 7: Statistics of LEDBAT

Start at: 2018-01-08 23:48:25
End at: 2018-01-08 23:48:55
Local clock offset: 12.179 ms
Remote clock offset: -19.394 ms

Below is generated by plot.py at 2018-01-09 01:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.98 Mbit/s
95th percentile per-packet one-way delay: 34.242 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 76.98 Mbit/s
95th percentile per-packet one-way delay: 34.242 ms
Loss rate: 0.20%

Run 7: Report of LEDBAT — Data Link

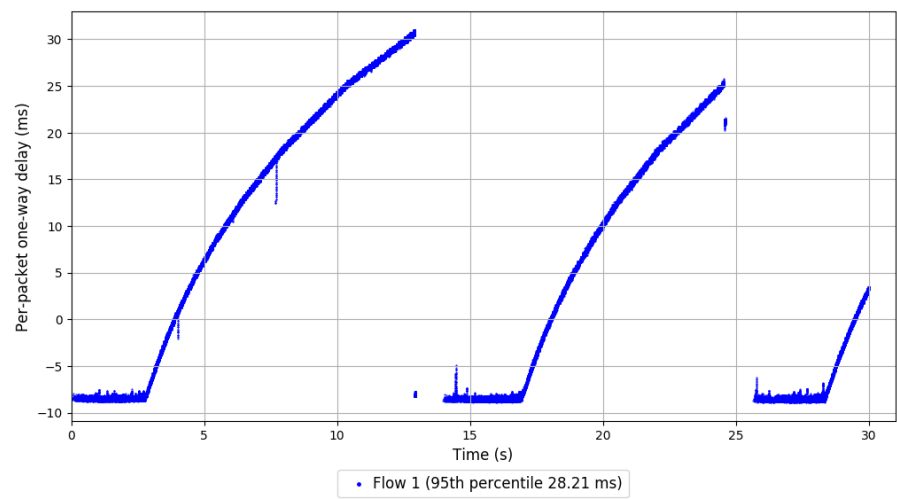
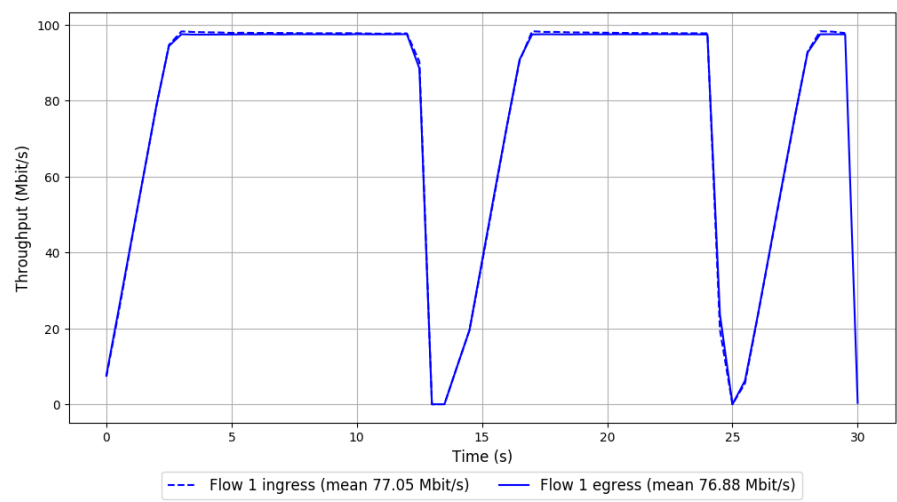


Run 8: Statistics of LEDBAT

Start at: 2018-01-09 00:05:43
End at: 2018-01-09 00:06:13
Local clock offset: 14.112 ms
Remote clock offset: -21.219 ms

Below is generated by plot.py at 2018-01-09 01:34:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.88 Mbit/s
95th percentile per-packet one-way delay: 28.215 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 76.88 Mbit/s
95th percentile per-packet one-way delay: 28.215 ms
Loss rate: 0.18%

Run 8: Report of LEDBAT — Data Link

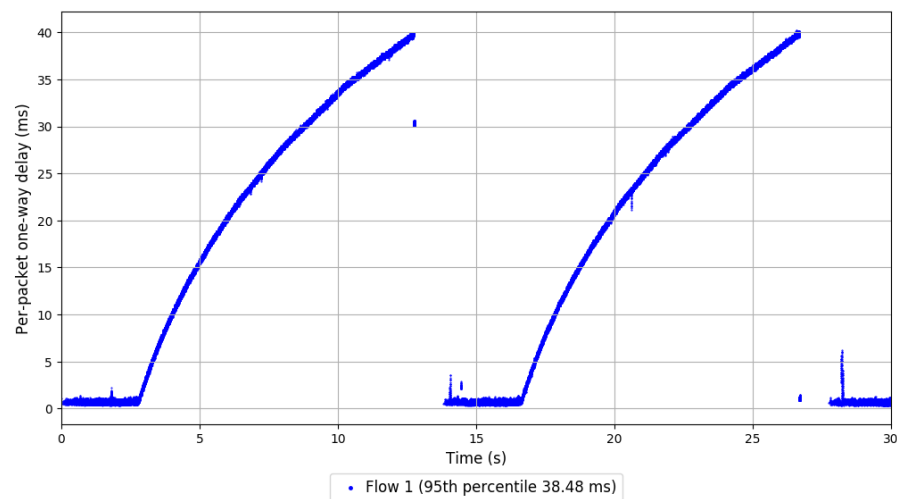
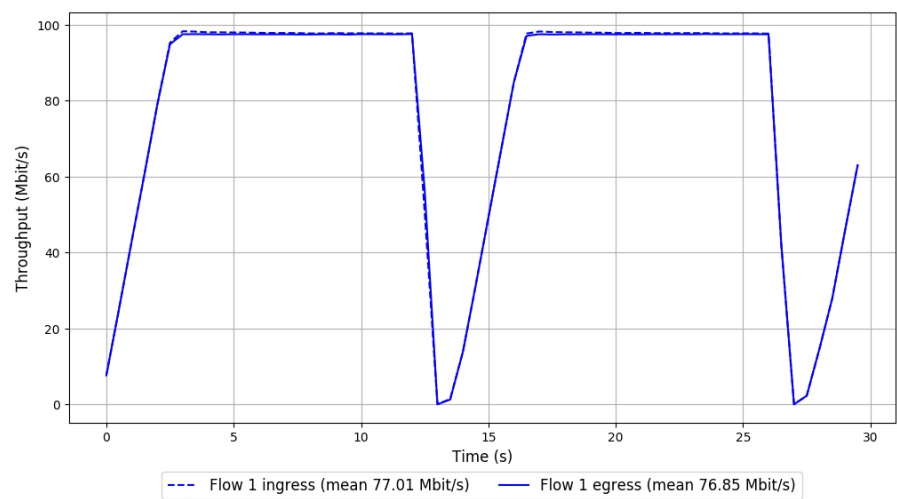


Run 9: Statistics of LEDBAT

Start at: 2018-01-09 00:23:02
End at: 2018-01-09 00:23:32
Local clock offset: 3.597 ms
Remote clock offset: -20.19 ms

Below is generated by plot.py at 2018-01-09 01:34:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.85 Mbit/s
95th percentile per-packet one-way delay: 38.483 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 76.85 Mbit/s
95th percentile per-packet one-way delay: 38.483 ms
Loss rate: 0.21%

Run 9: Report of LEDBAT — Data Link

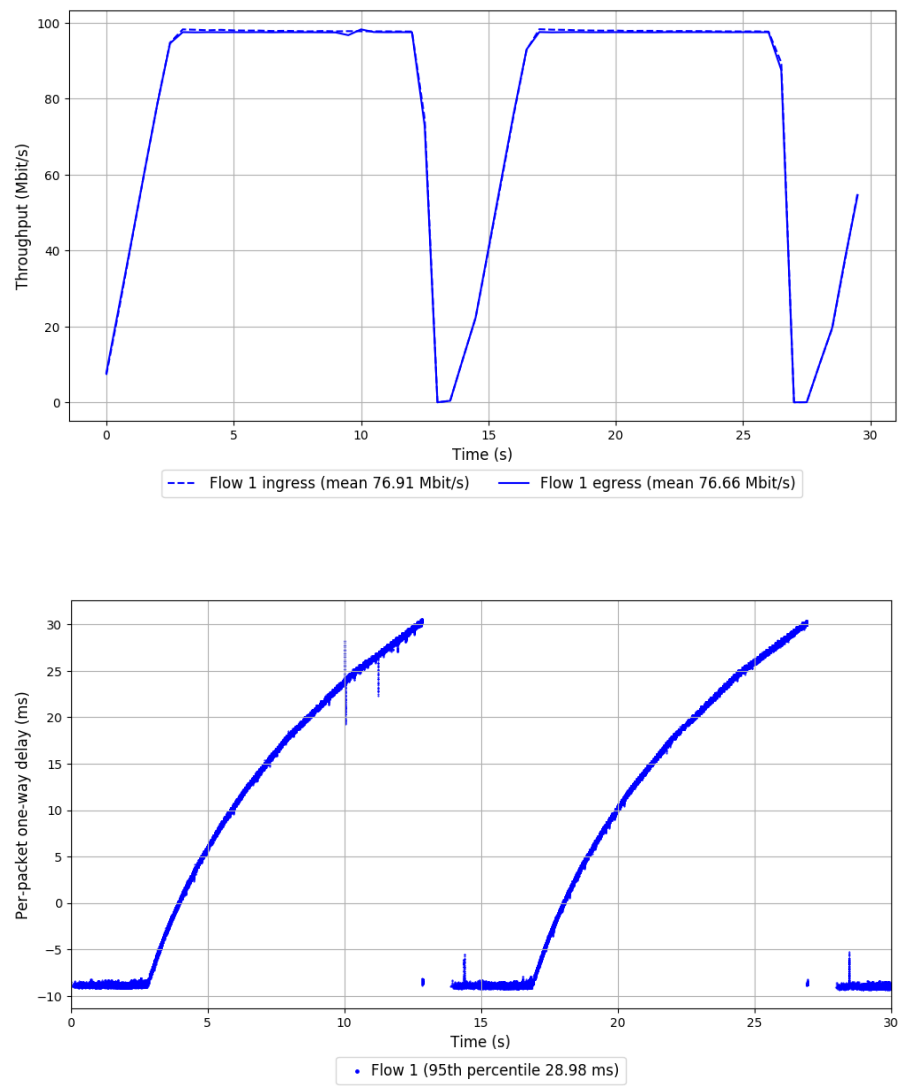


Run 10: Statistics of LEDBAT

Start at: 2018-01-09 00:40:32
End at: 2018-01-09 00:41:02
Local clock offset: 9.397 ms
Remote clock offset: -20.996 ms

Below is generated by plot.py at 2018-01-09 01:34:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.66 Mbit/s
95th percentile per-packet one-way delay: 28.976 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 76.66 Mbit/s
95th percentile per-packet one-way delay: 28.976 ms
Loss rate: 0.33%

Run 10: Report of LEDBAT — Data Link

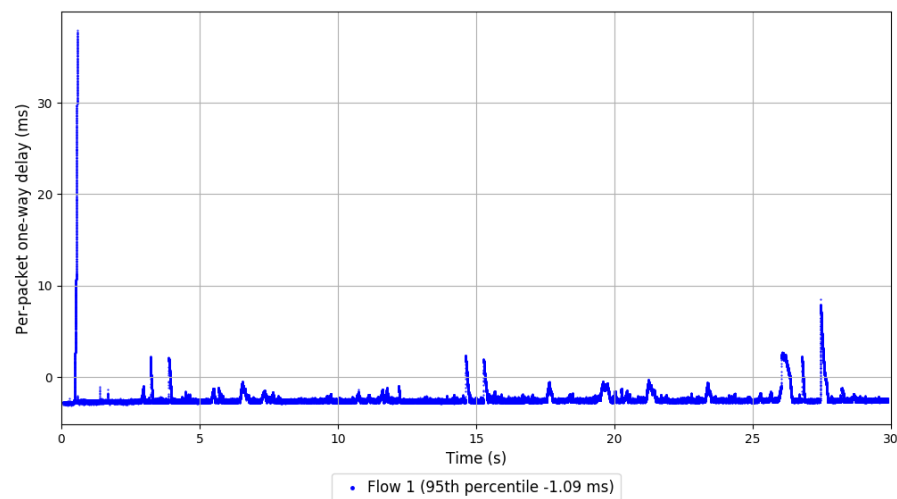
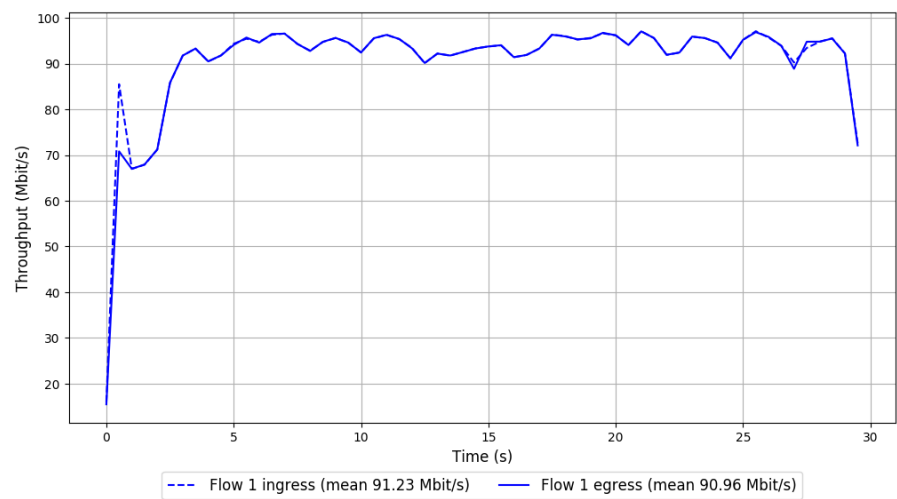


```
Run 1: Statistics of PCC

Start at: 2018-01-08 21:48:22
End at: 2018-01-08 21:48:52
Local clock offset: 7.108 ms
Remote clock offset: -18.246 ms

# Below is generated by plot.py at 2018-01-09 01:34:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.96 Mbit/s
95th percentile per-packet one-way delay: -1.090 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 90.96 Mbit/s
95th percentile per-packet one-way delay: -1.090 ms
Loss rate: 0.29%
```

Run 1: Report of PCC — Data Link

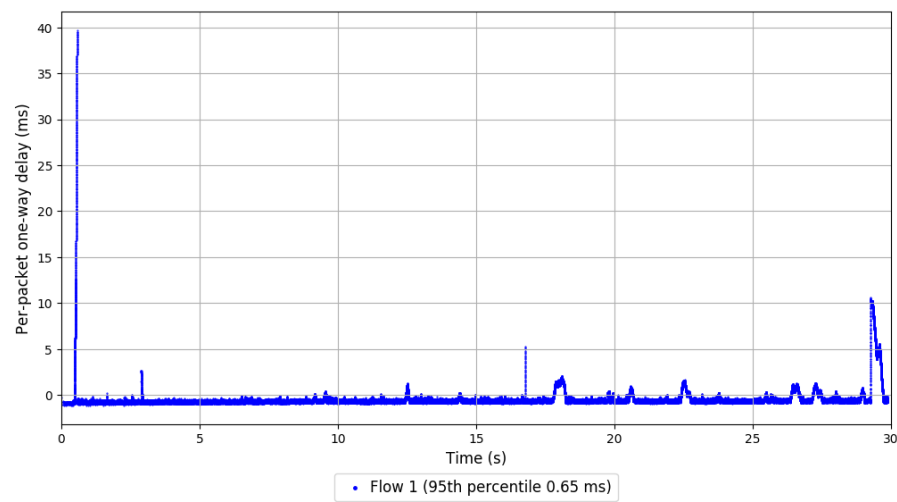
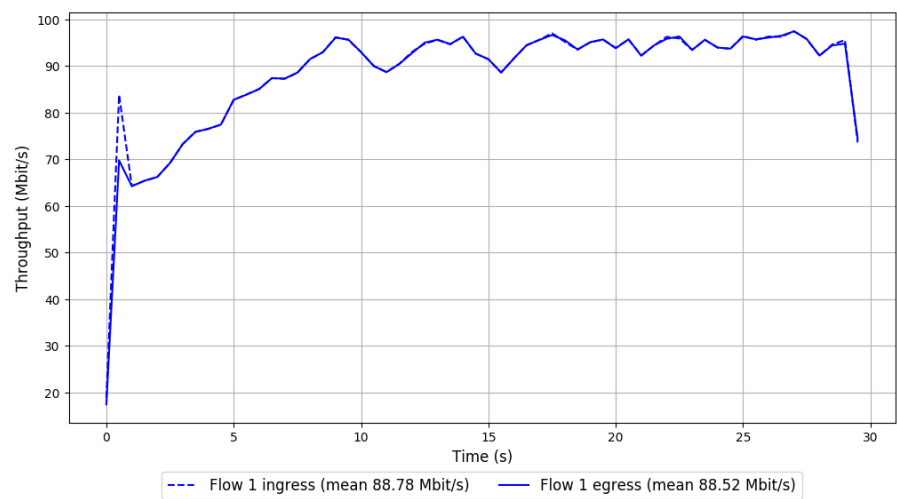


Run 2: Statistics of PCC

Start at: 2018-01-08 22:05:52
End at: 2018-01-08 22:06:22
Local clock offset: 6.117 ms
Remote clock offset: -19.662 ms

Below is generated by plot.py at 2018-01-09 01:34:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.52 Mbit/s
95th percentile per-packet one-way delay: 0.652 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 88.52 Mbit/s
95th percentile per-packet one-way delay: 0.652 ms
Loss rate: 0.29%

Run 2: Report of PCC — Data Link

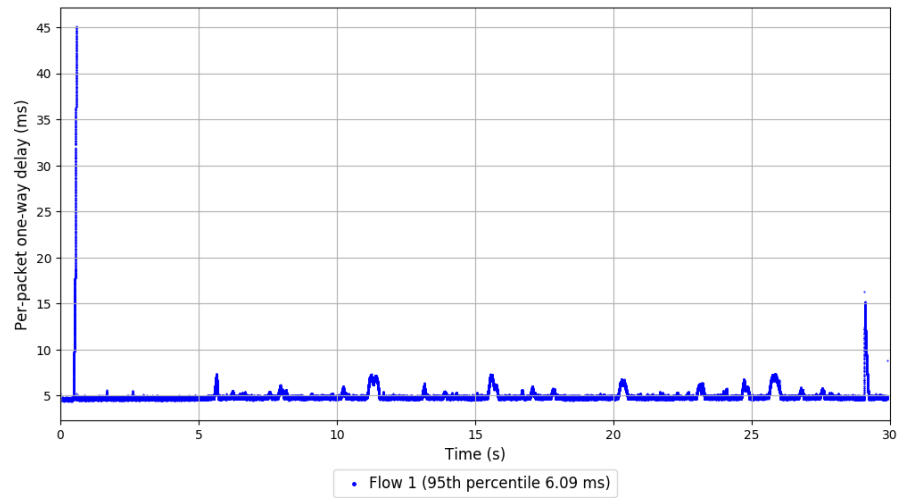
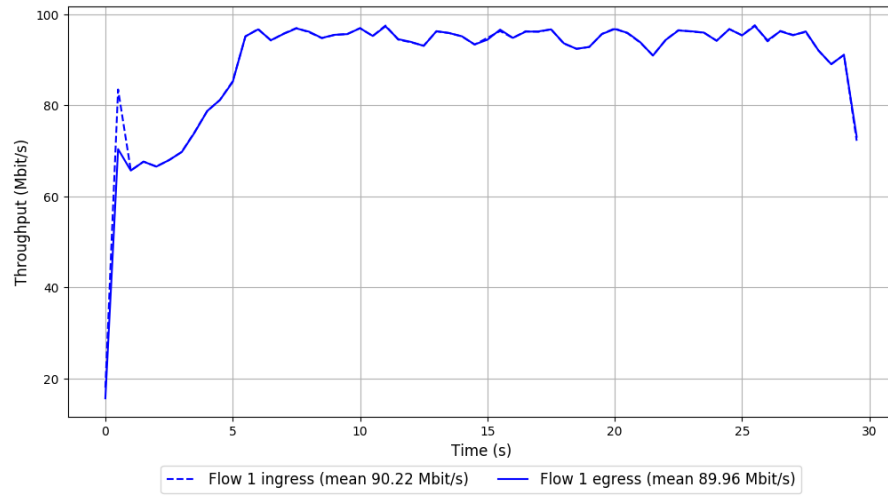


Run 3: Statistics of PCC

Start at: 2018-01-08 22:23:13
End at: 2018-01-08 22:23:43
Local clock offset: 0.787 ms
Remote clock offset: -20.874 ms

Below is generated by plot.py at 2018-01-09 01:36:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.96 Mbit/s
95th percentile per-packet one-way delay: 6.093 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 89.96 Mbit/s
95th percentile per-packet one-way delay: 6.093 ms
Loss rate: 0.28%

Run 3: Report of PCC — Data Link

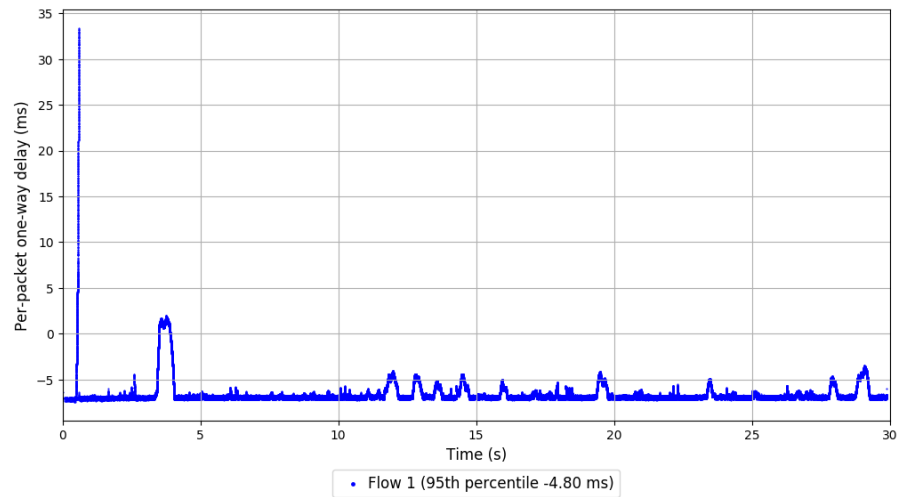
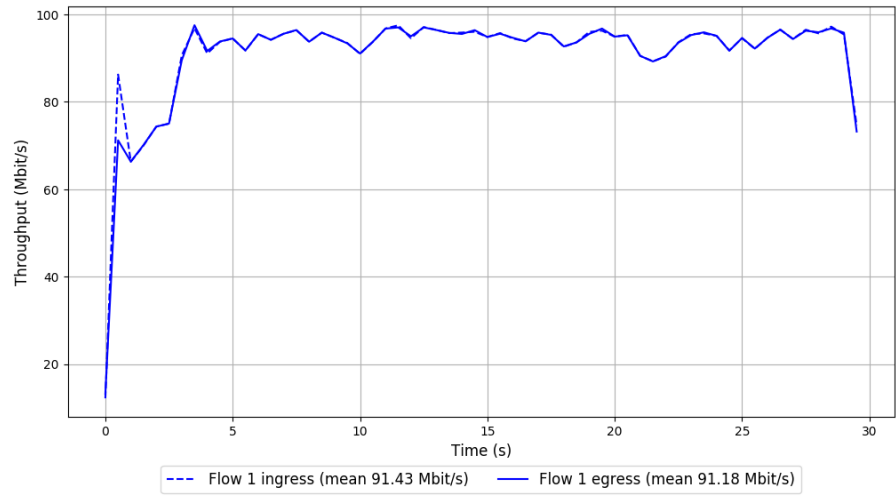


Run 4: Statistics of PCC

Start at: 2018-01-08 22:40:46
End at: 2018-01-08 22:41:16
Local clock offset: 15.283 ms
Remote clock offset: -19.189 ms

Below is generated by plot.py at 2018-01-09 01:36:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.18 Mbit/s
95th percentile per-packet one-way delay: -4.803 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 91.18 Mbit/s
95th percentile per-packet one-way delay: -4.803 ms
Loss rate: 0.27%

Run 4: Report of PCC — Data Link

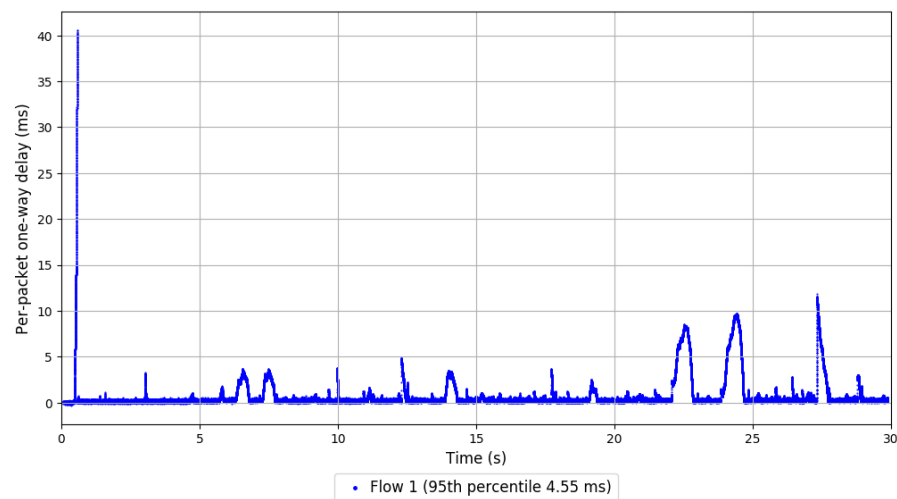
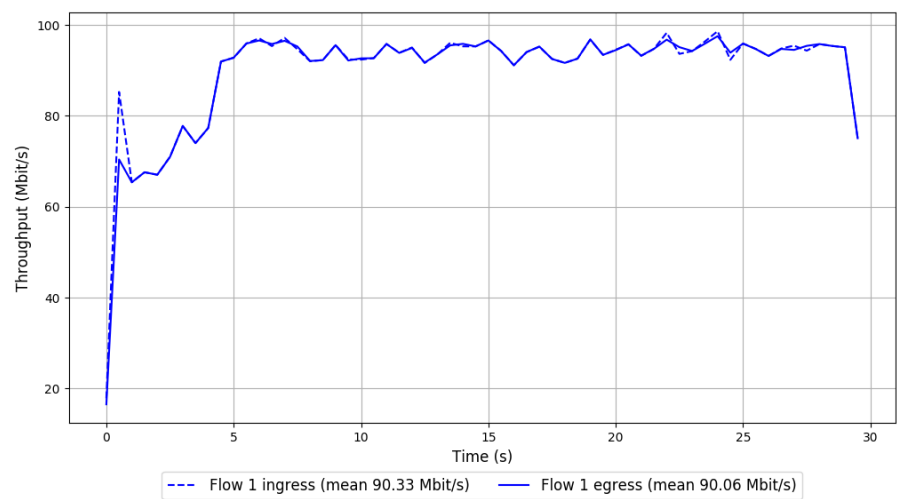


Run 5: Statistics of PCC

Start at: 2018-01-08 22:58:45
End at: 2018-01-08 22:59:15
Local clock offset: 8.596 ms
Remote clock offset: -20.269 ms

Below is generated by plot.py at 2018-01-09 01:36:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.06 Mbit/s
95th percentile per-packet one-way delay: 4.555 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 90.06 Mbit/s
95th percentile per-packet one-way delay: 4.555 ms
Loss rate: 0.30%

Run 5: Report of PCC — Data Link

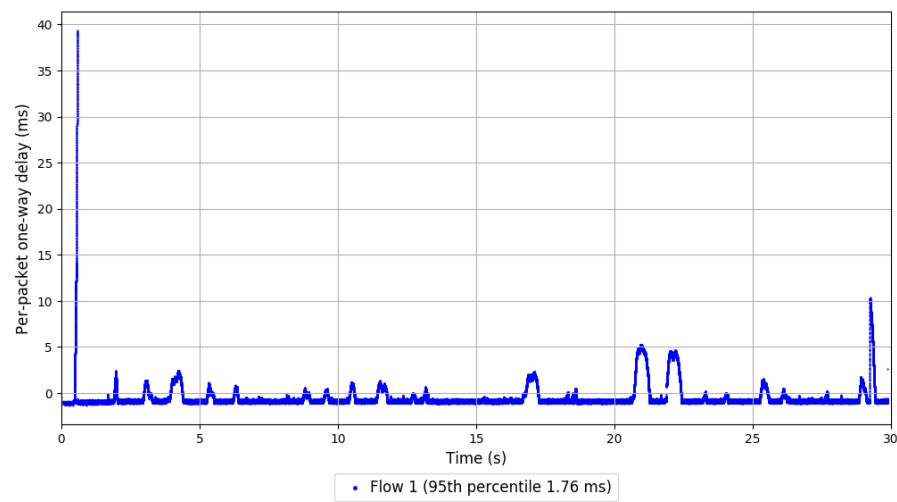
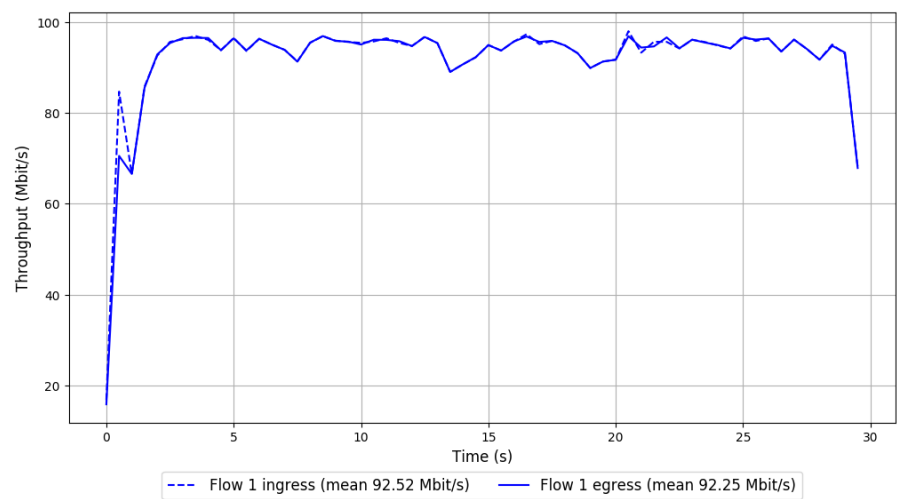


Run 6: Statistics of PCC

Start at: 2018-01-08 23:16:09
End at: 2018-01-08 23:16:39
Local clock offset: 10.813 ms
Remote clock offset: -19.867 ms

Below is generated by plot.py at 2018-01-09 01:36:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.25 Mbit/s
95th percentile per-packet one-way delay: 1.764 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 92.25 Mbit/s
95th percentile per-packet one-way delay: 1.764 ms
Loss rate: 0.28%

Run 6: Report of PCC — Data Link

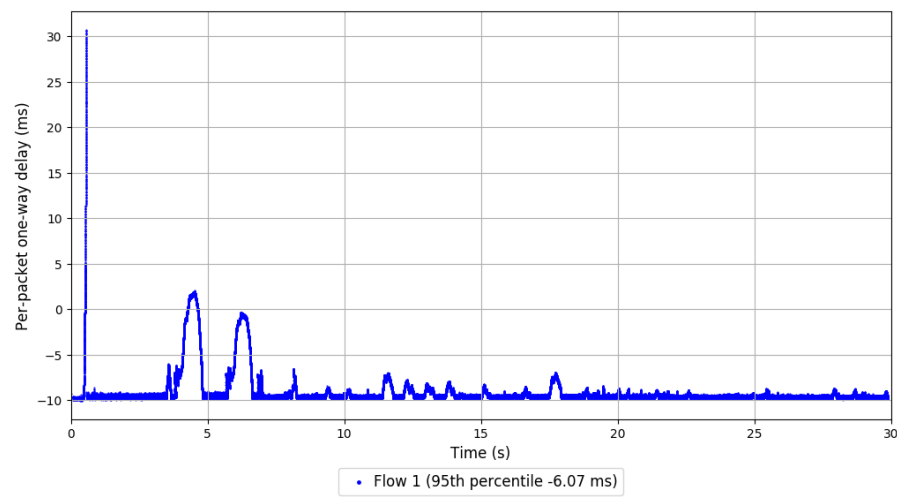
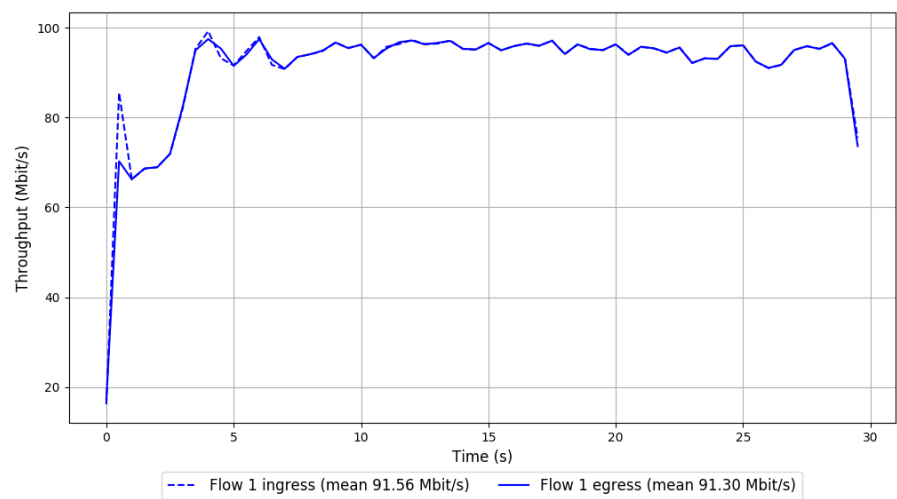


Run 7: Statistics of PCC

Start at: 2018-01-08 23:33:22
End at: 2018-01-08 23:33:52
Local clock offset: 15.39 ms
Remote clock offset: -23.308 ms

Below is generated by plot.py at 2018-01-09 01:36:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.30 Mbit/s
95th percentile per-packet one-way delay: -6.072 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 91.30 Mbit/s
95th percentile per-packet one-way delay: -6.072 ms
Loss rate: 0.28%

Run 7: Report of PCC — Data Link

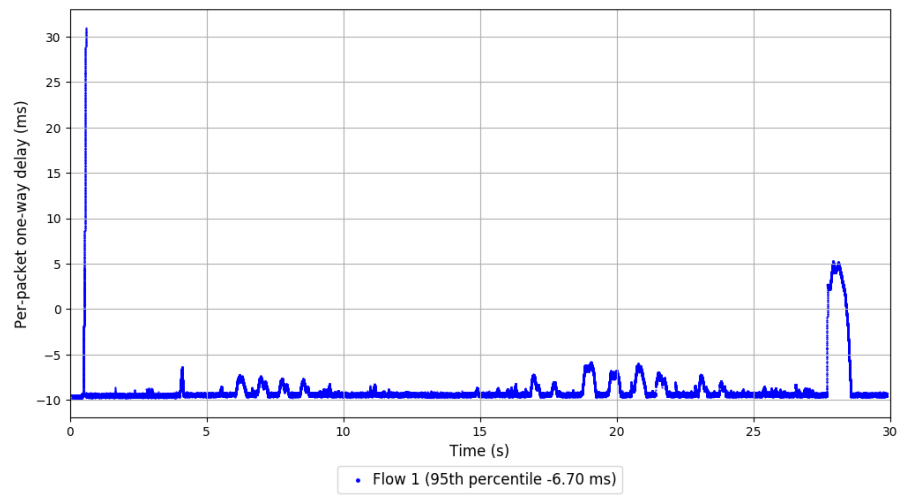
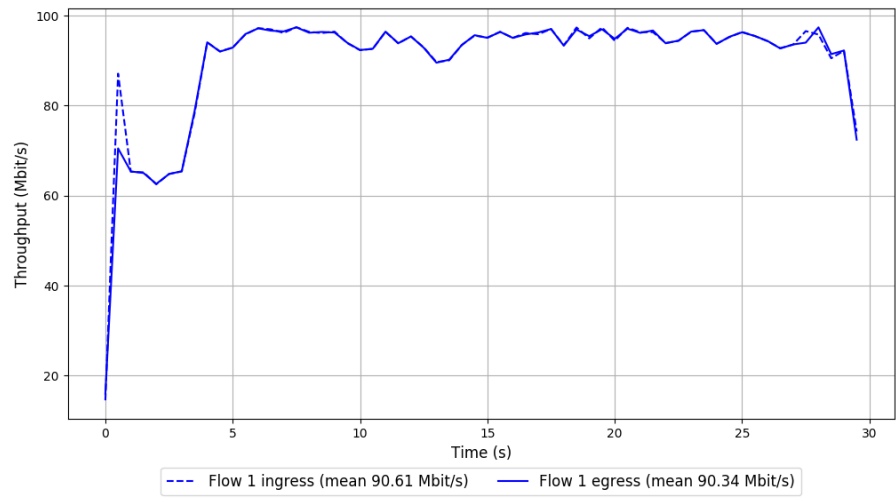


Run 8: Statistics of PCC

Start at: 2018-01-08 23:50:40
End at: 2018-01-08 23:51:10
Local clock offset: 15.377 ms
Remote clock offset: -22.02 ms

Below is generated by plot.py at 2018-01-09 01:36:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.34 Mbit/s
95th percentile per-packet one-way delay: -6.703 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 90.34 Mbit/s
95th percentile per-packet one-way delay: -6.703 ms
Loss rate: 0.30%

Run 8: Report of PCC — Data Link

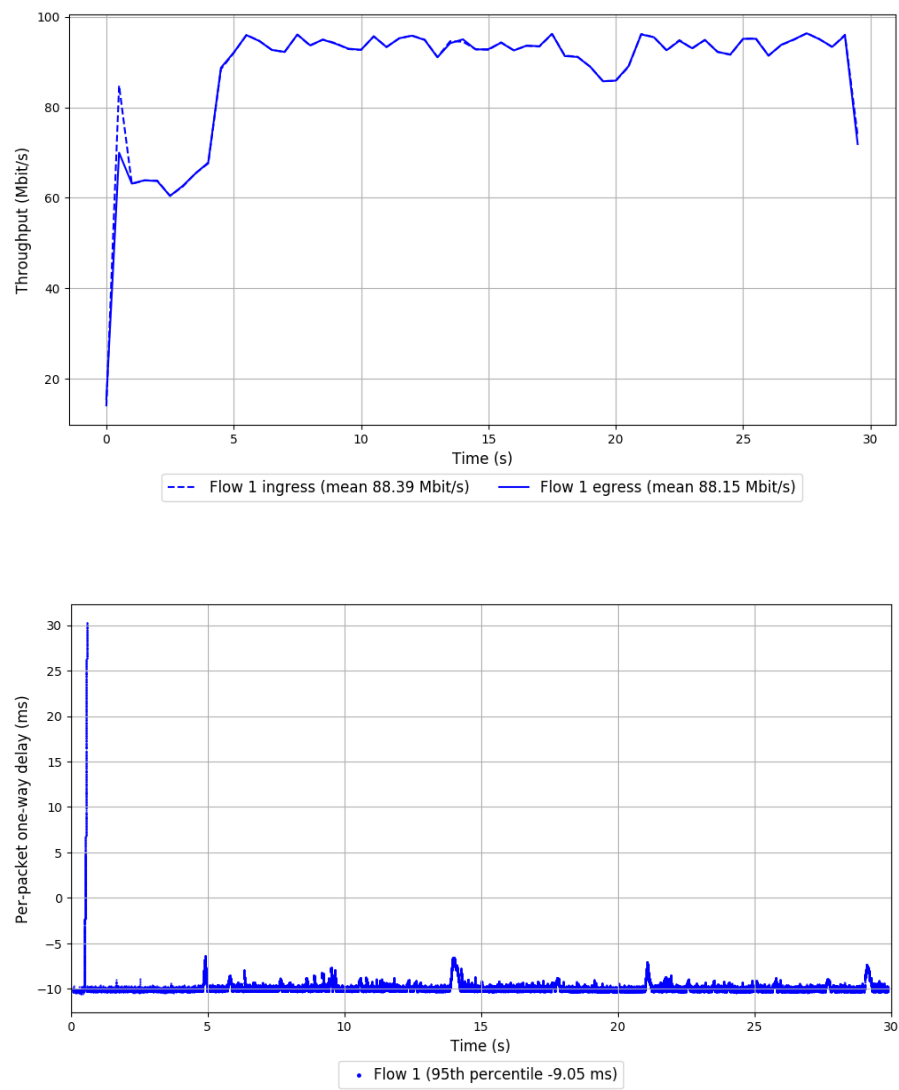


Run 9: Statistics of PCC

Start at: 2018-01-09 00:07:58
End at: 2018-01-09 00:08:28
Local clock offset: 13.414 ms
Remote clock offset: -23.013 ms

Below is generated by plot.py at 2018-01-09 01:36:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.15 Mbit/s
95th percentile per-packet one-way delay: -9.052 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 88.15 Mbit/s
95th percentile per-packet one-way delay: -9.052 ms
Loss rate: 0.27%

Run 9: Report of PCC — Data Link

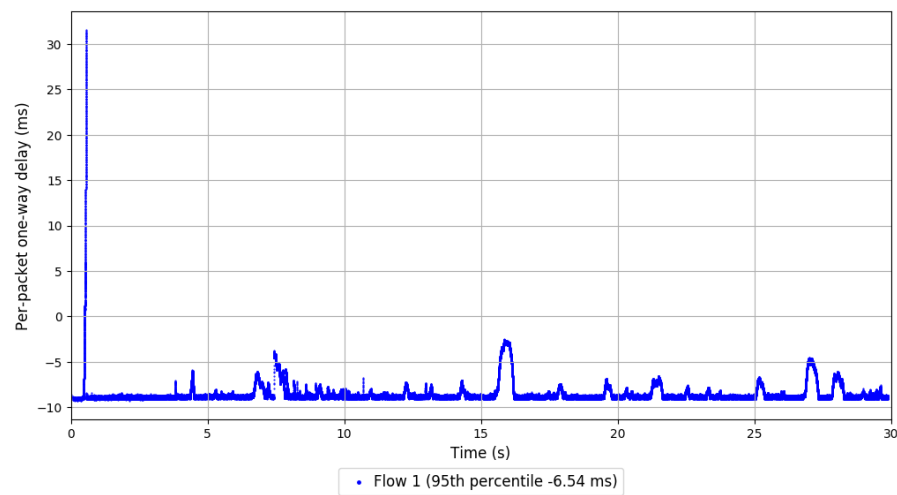
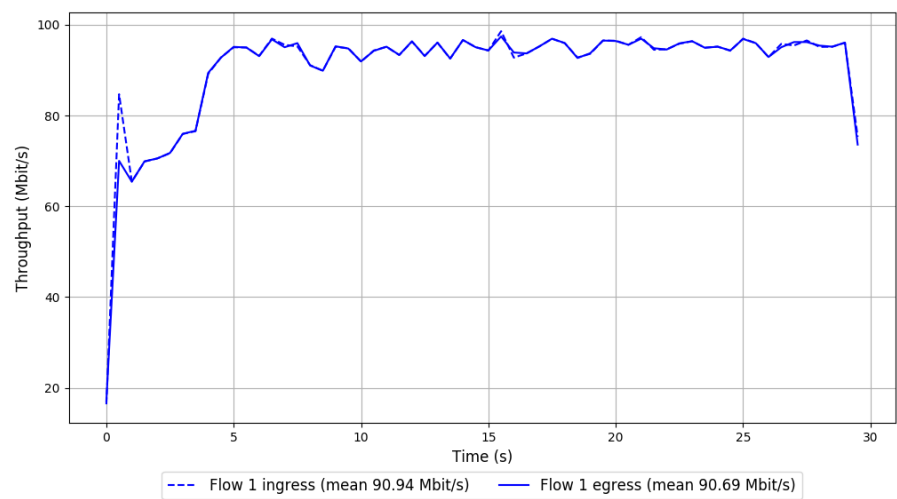


Run 10: Statistics of PCC

Start at: 2018-01-09 00:25:16
End at: 2018-01-09 00:25:46
Local clock offset: 12.044 ms
Remote clock offset: -21.088 ms

Below is generated by plot.py at 2018-01-09 01:37:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.69 Mbit/s
95th percentile per-packet one-way delay: -6.540 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 90.69 Mbit/s
95th percentile per-packet one-way delay: -6.540 ms
Loss rate: 0.28%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

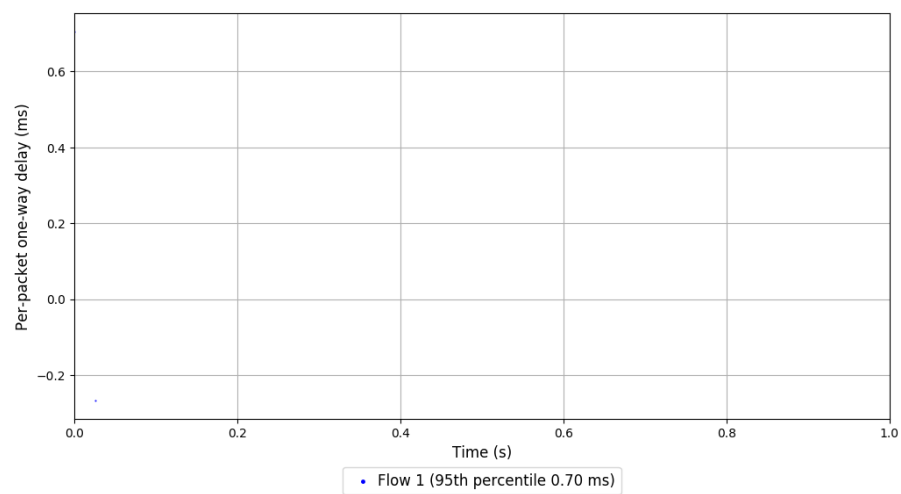
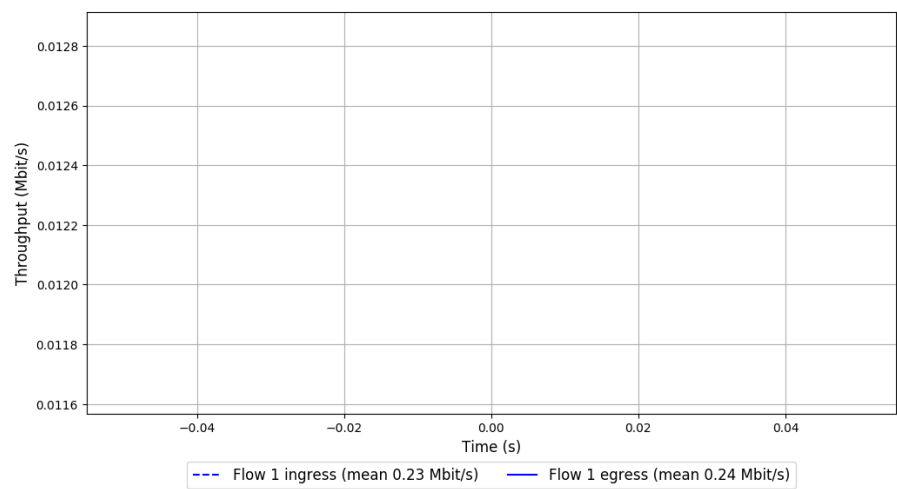
Start at: 2018-01-08 21:50:41

End at: 2018-01-08 21:51:11

Local clock offset: 5.757 ms

Remote clock offset: -17.068 ms

Run 1: Report of QUIC Cubic — Data Link

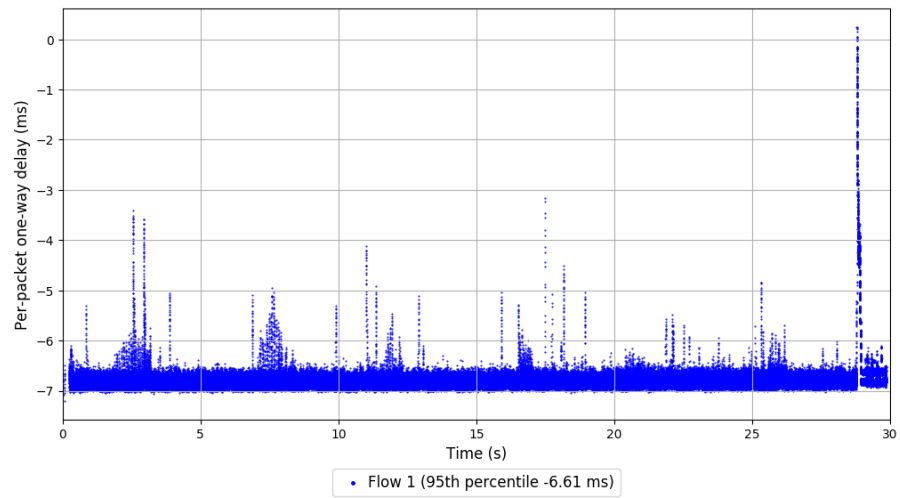
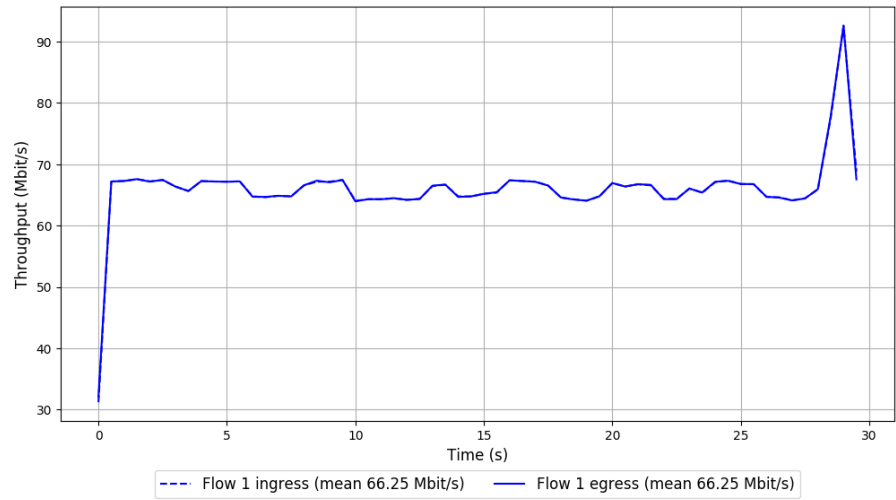


Run 2: Statistics of QUIC Cubic

Start at: 2018-01-08 22:08:11
End at: 2018-01-08 22:08:41
Local clock offset: 11.587 ms
Remote clock offset: -20.447 ms

Below is generated by plot.py at 2018-01-09 01:37:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 66.25 Mbit/s
95th percentile per-packet one-way delay: -6.609 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 66.25 Mbit/s
95th percentile per-packet one-way delay: -6.609 ms
Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link

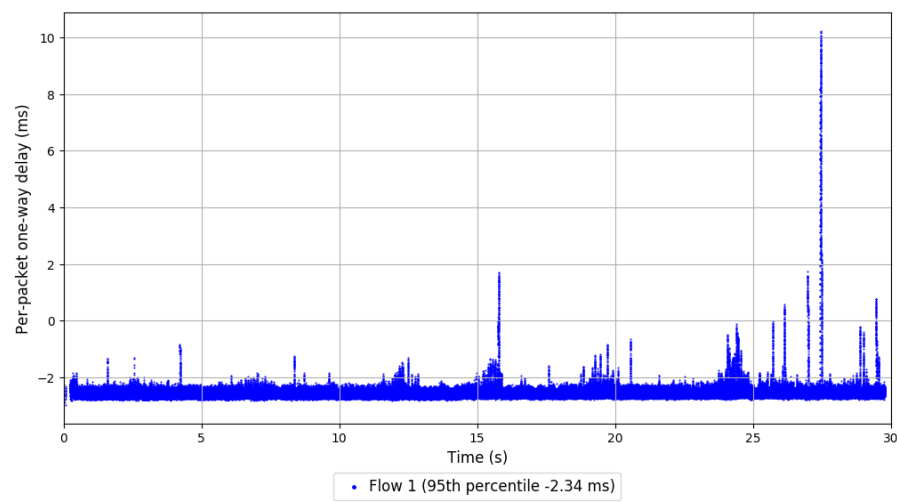
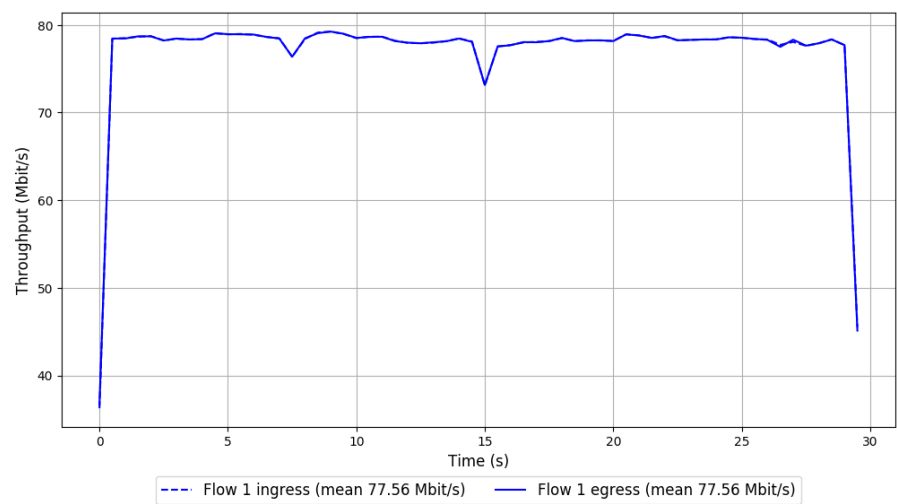


Run 3: Statistics of QUIC Cubic

Start at: 2018-01-08 22:25:32
End at: 2018-01-08 22:26:02
Local clock offset: 7.366 ms
Remote clock offset: -21.724 ms

Below is generated by plot.py at 2018-01-09 01:38:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.56 Mbit/s
95th percentile per-packet one-way delay: -2.341 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 77.56 Mbit/s
95th percentile per-packet one-way delay: -2.341 ms
Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link

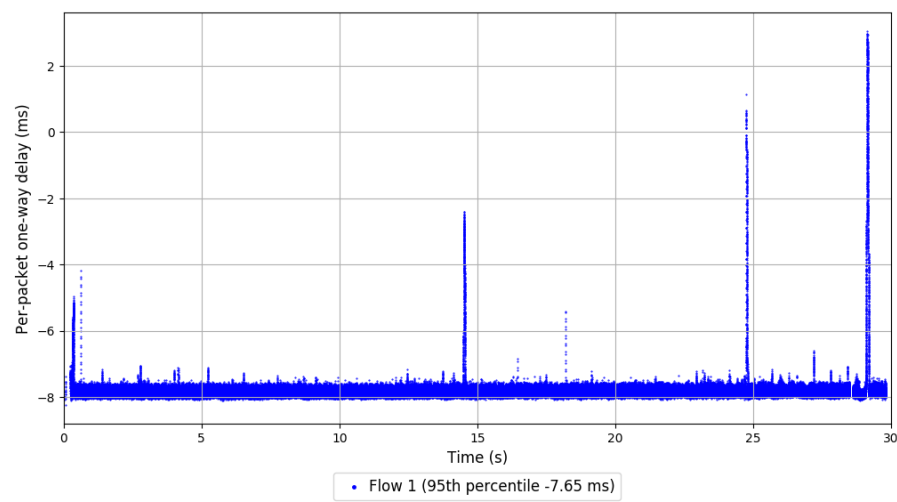
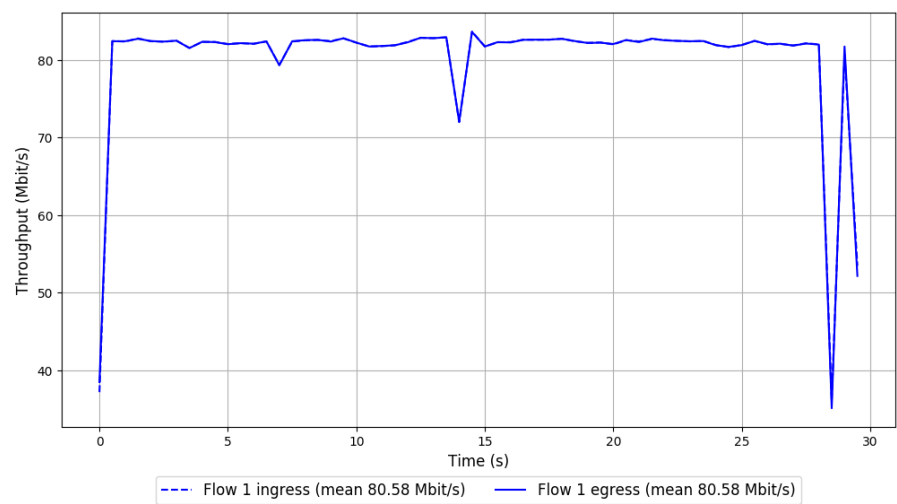


Run 4: Statistics of QUIC Cubic

Start at: 2018-01-08 22:43:05
End at: 2018-01-08 22:43:35
Local clock offset: 15.673 ms
Remote clock offset: -19.753 ms

Below is generated by plot.py at 2018-01-09 01:39:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 80.58 Mbit/s
95th percentile per-packet one-way delay: -7.650 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 80.58 Mbit/s
95th percentile per-packet one-way delay: -7.650 ms
Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link

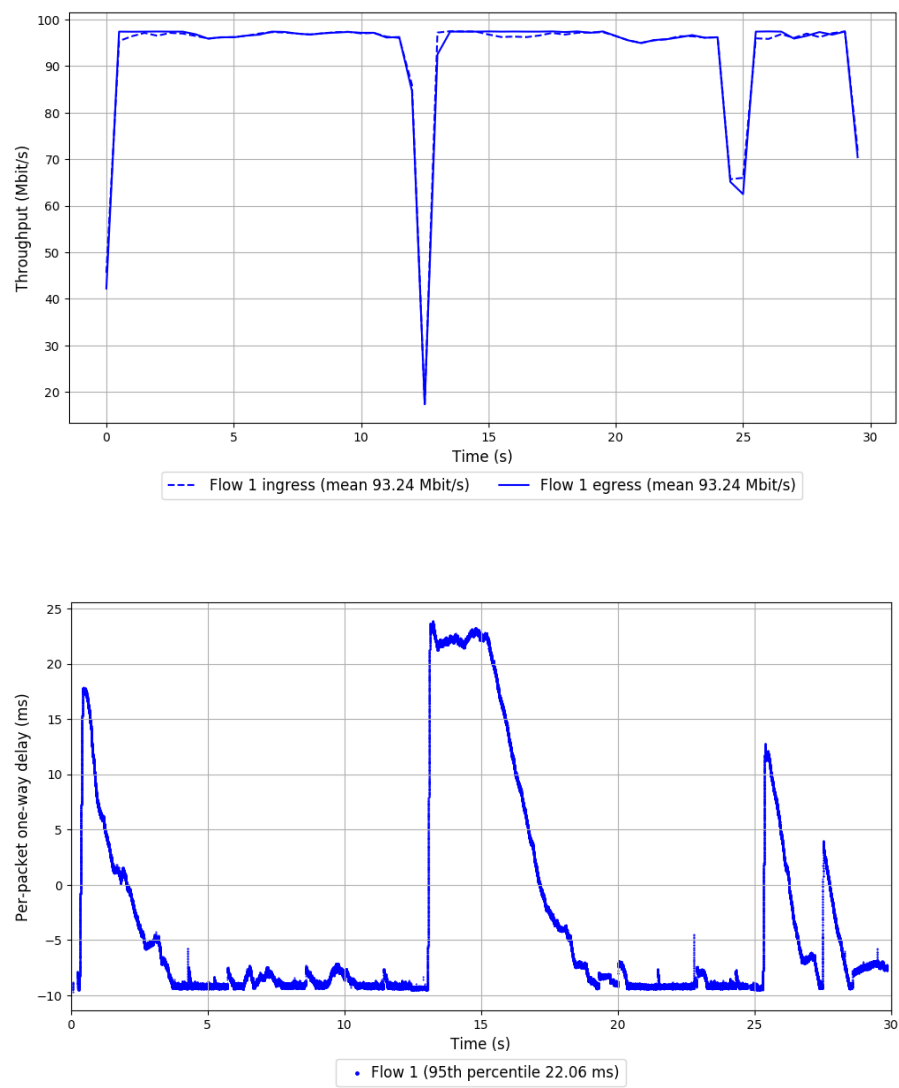


Run 5: Statistics of QUIC Cubic

Start at: 2018-01-08 23:01:04
End at: 2018-01-08 23:01:34
Local clock offset: 16.684 ms
Remote clock offset: -21.728 ms

Below is generated by plot.py at 2018-01-09 01:39:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.24 Mbit/s
95th percentile per-packet one-way delay: 22.060 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 93.24 Mbit/s
95th percentile per-packet one-way delay: 22.060 ms
Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

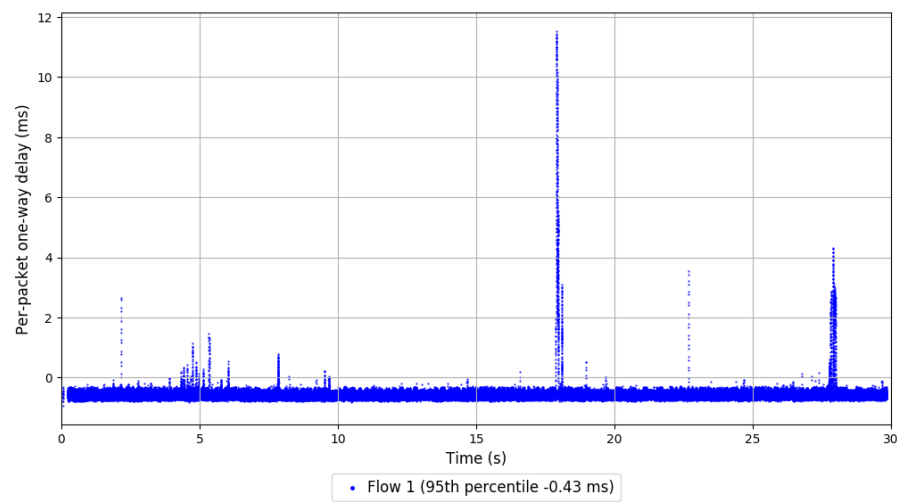
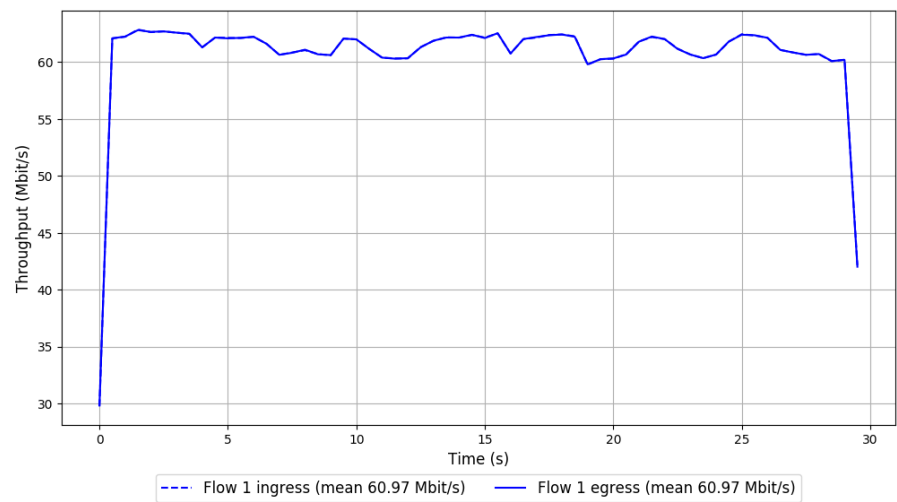


Run 6: Statistics of QUIC Cubic

Start at: 2018-01-08 23:18:26
End at: 2018-01-08 23:18:56
Local clock offset: 9.09 ms
Remote clock offset: -21.268 ms

Below is generated by plot.py at 2018-01-09 01:39:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 60.97 Mbit/s
95th percentile per-packet one-way delay: -0.432 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.97 Mbit/s
95th percentile per-packet one-way delay: -0.432 ms
Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link

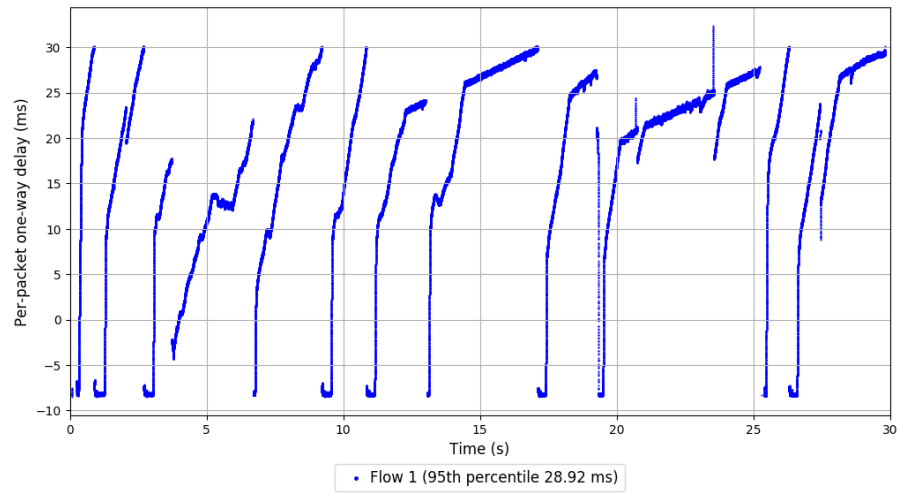
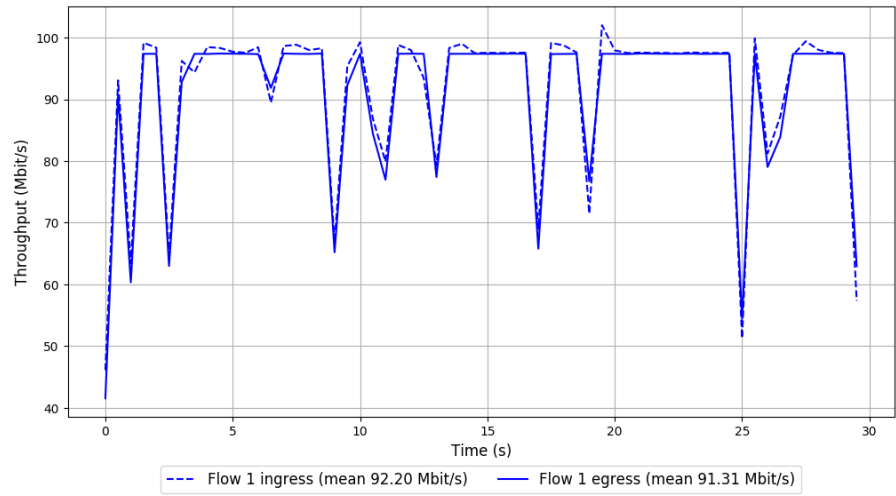


Run 7: Statistics of QUIC Cubic

Start at: 2018-01-08 23:35:39
End at: 2018-01-08 23:36:09
Local clock offset: 15.775 ms
Remote clock offset: -21.18 ms

Below is generated by plot.py at 2018-01-09 01:39:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.31 Mbit/s
95th percentile per-packet one-way delay: 28.922 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 91.31 Mbit/s
95th percentile per-packet one-way delay: 28.922 ms
Loss rate: 0.83%

Run 7: Report of QUIC Cubic — Data Link

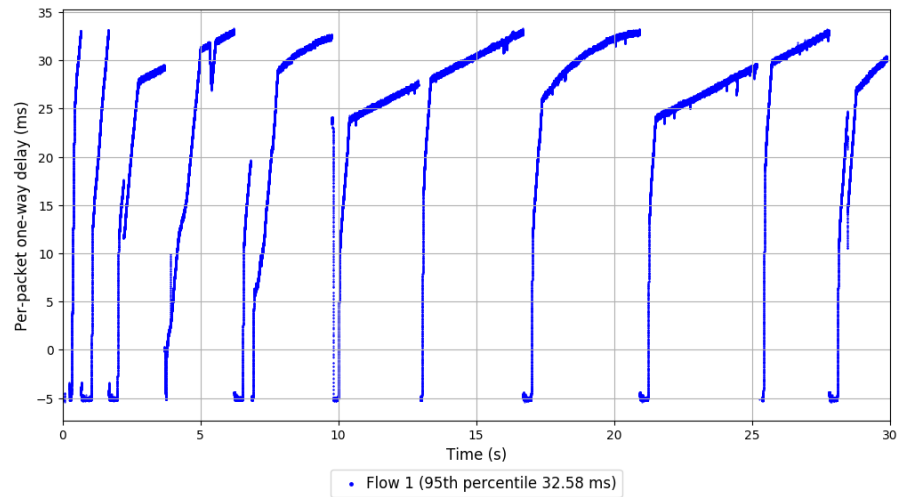
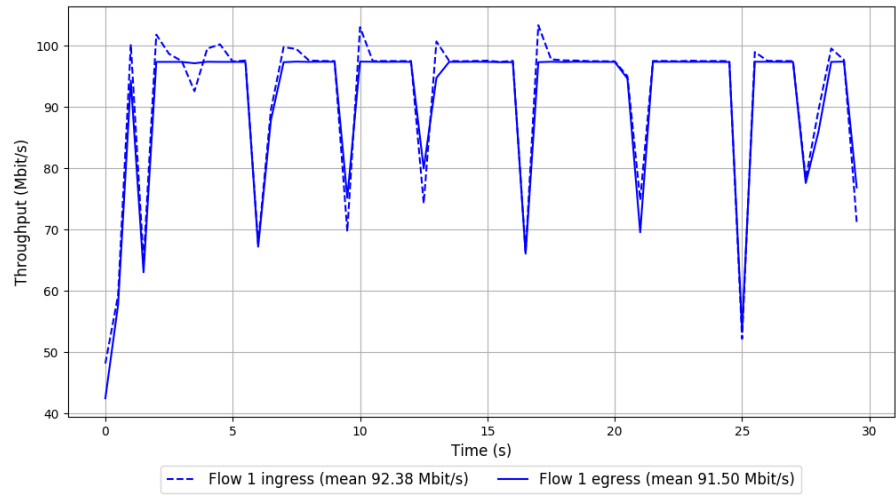


Run 8: Statistics of QUIC Cubic

Start at: 2018-01-08 23:52:57
End at: 2018-01-08 23:53:27
Local clock offset: 12.225 ms
Remote clock offset: -20.674 ms

Below is generated by plot.py at 2018-01-09 01:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.50 Mbit/s
95th percentile per-packet one-way delay: 32.584 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 91.50 Mbit/s
95th percentile per-packet one-way delay: 32.584 ms
Loss rate: 0.84%

Run 8: Report of QUIC Cubic — Data Link

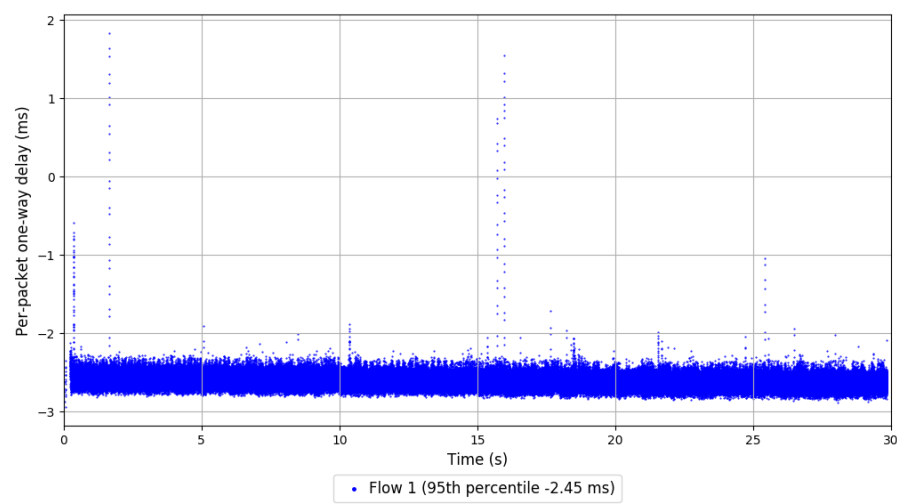
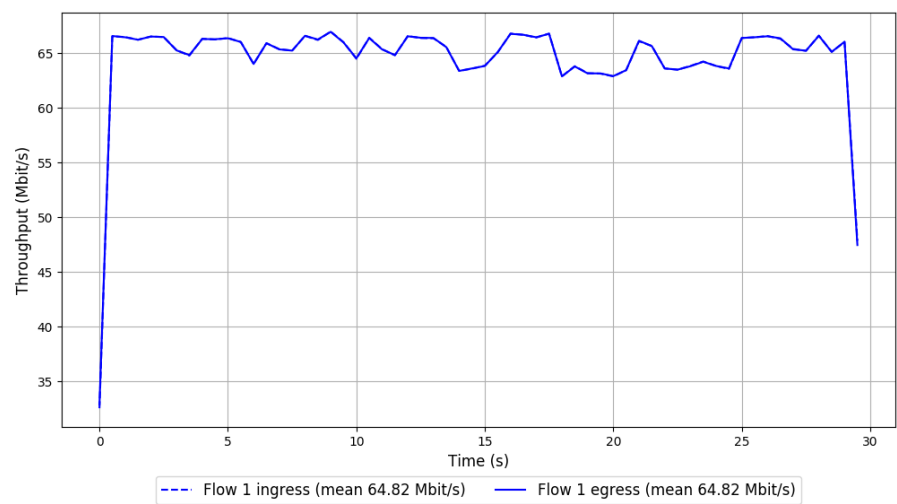


Run 9: Statistics of QUIC Cubic

Start at: 2018-01-09 00:10:15
End at: 2018-01-09 00:10:45
Local clock offset: 8.348 ms
Remote clock offset: -20.108 ms

Below is generated by plot.py at 2018-01-09 01:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 64.82 Mbit/s
95th percentile per-packet one-way delay: -2.450 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.82 Mbit/s
95th percentile per-packet one-way delay: -2.450 ms
Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-01-09 00:27:33

End at: 2018-01-09 00:28:03

Local clock offset: 11.685 ms

Remote clock offset: -22.182 ms

Below is generated by plot.py at 2018-01-09 01:40:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.54 Mbit/s

95th percentile per-packet one-way delay: 19.792 ms

Loss rate: 0.00%

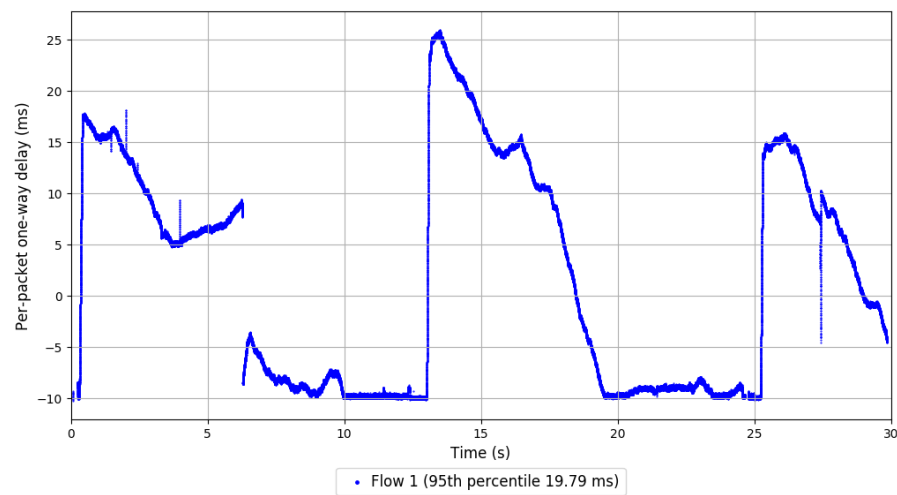
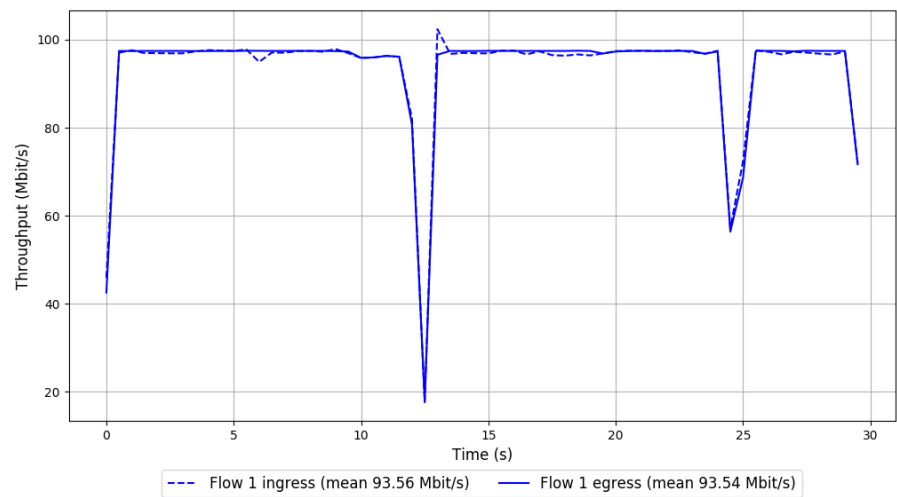
-- Flow 1:

Average throughput: 93.54 Mbit/s

95th percentile per-packet one-way delay: 19.792 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2018-01-08 22:04:48

End at: 2018-01-08 22:05:18

Local clock offset: 5.666 ms

Remote clock offset: -19.947 ms

Run 1: Report of SReAM — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of SReAM

Start at: 2018-01-08 22:22:08

End at: 2018-01-08 22:22:38

Local clock offset: 6.38 ms

Remote clock offset: -21.556 ms

Run 2: Report of SReAM — Data Link

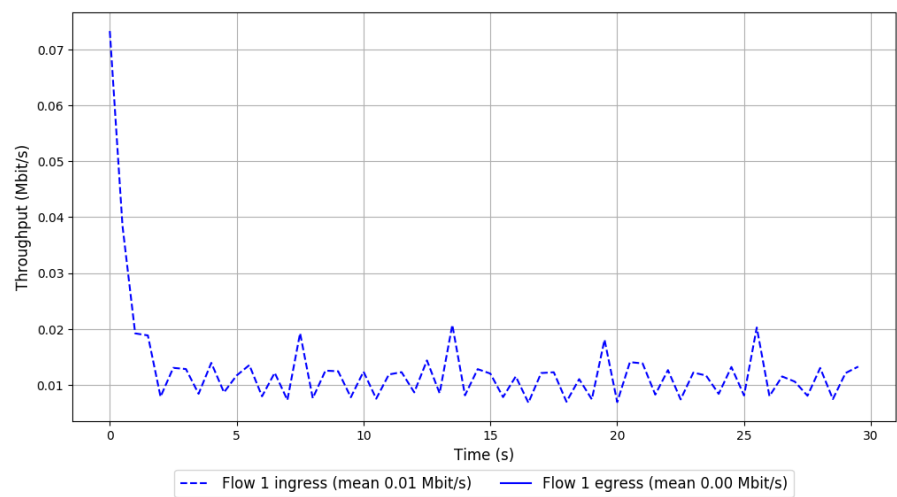


Figure is missing

Run 3: Statistics of SCReAM

Start at: 2018-01-08 22:39:41
End at: 2018-01-08 22:40:11
Local clock offset: 13.161 ms
Remote clock offset: -19.134 ms

Run 3: Report of SReAM — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of SCReAM

Start at: 2018-01-08 22:57:41
End at: 2018-01-08 22:58:11
Local clock offset: 11.813 ms
Remote clock offset: -20.378 ms

Run 4: Report of SReAM — Data Link

Figure is missing

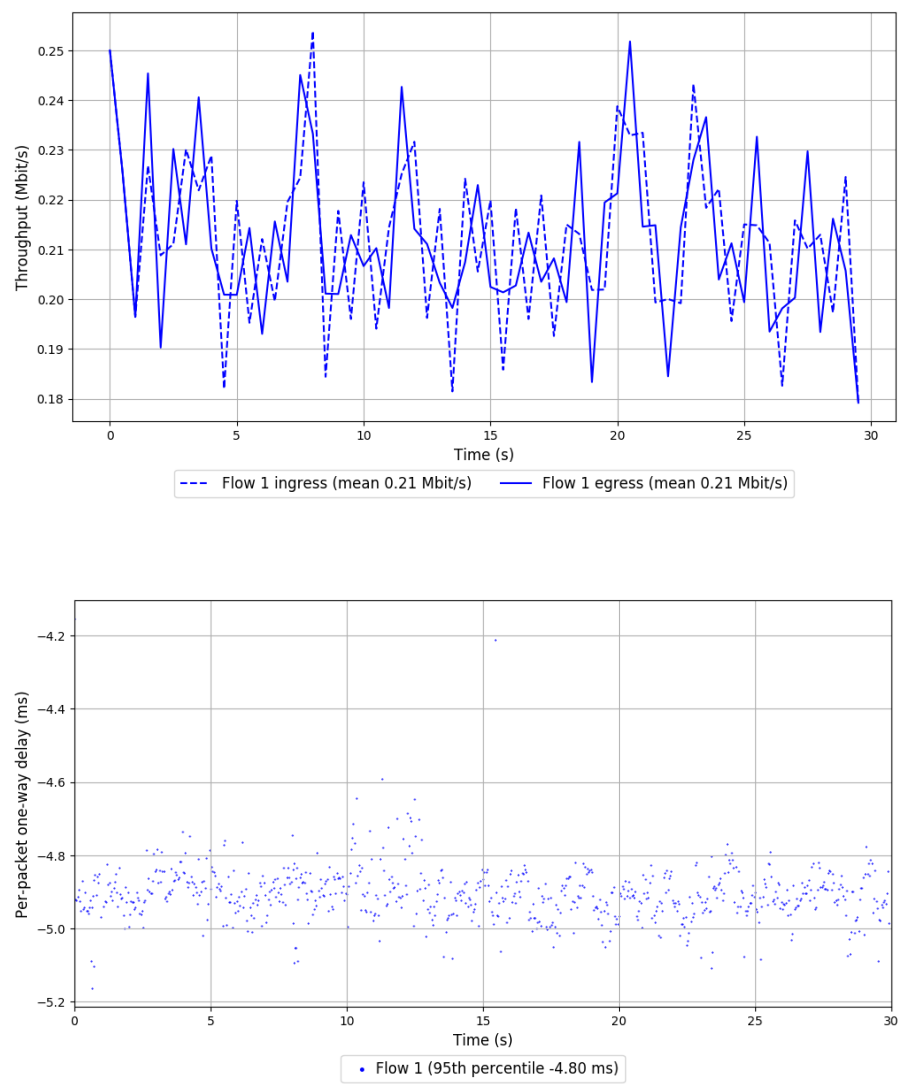
Figure is missing

Run 5: Statistics of SCReAM

Start at: 2018-01-08 23:15:04
End at: 2018-01-08 23:15:34
Local clock offset: 14.814 ms
Remote clock offset: -19.703 ms

Below is generated by plot.py at 2018-01-09 01:40:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -4.796 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -4.796 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

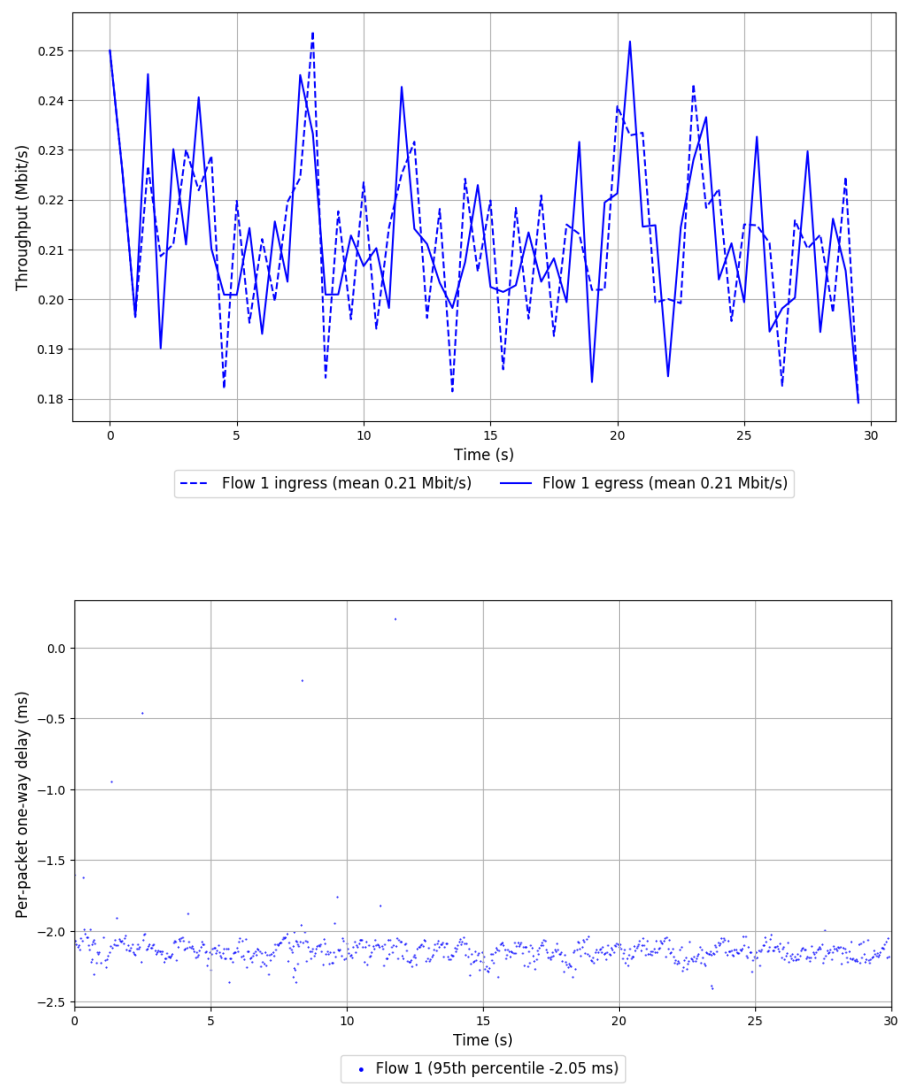


Run 6: Statistics of SCReAM

Start at: 2018-01-08 23:32:17
End at: 2018-01-08 23:32:47
Local clock offset: 10.37 ms
Remote clock offset: -20.863 ms

Below is generated by plot.py at 2018-01-09 01:40:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -2.052 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -2.052 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

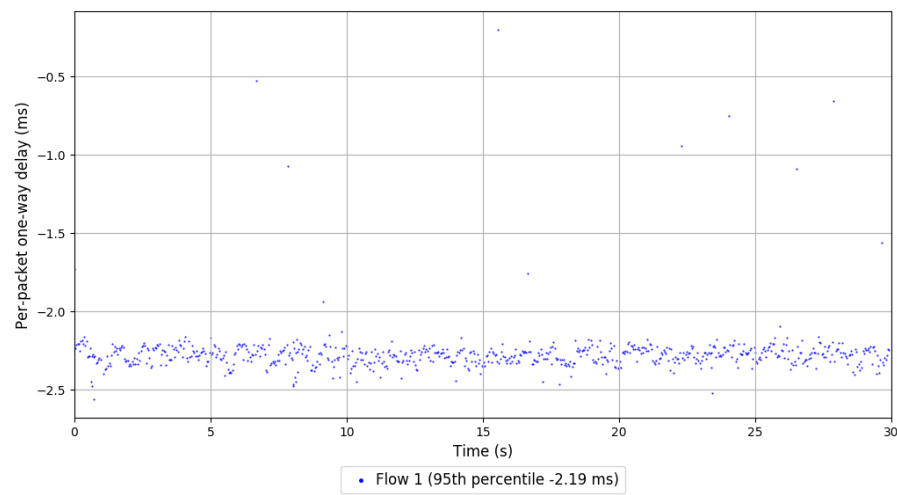
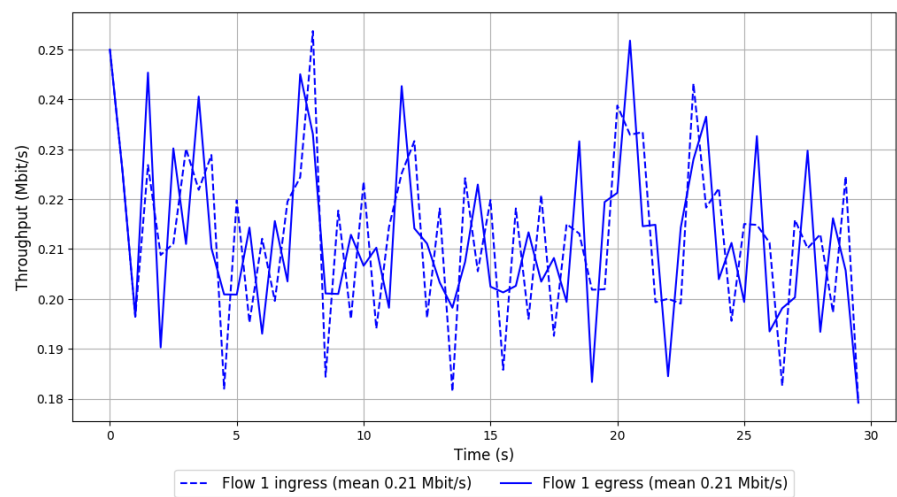


Run 7: Statistics of SCReAM

Start at: 2018-01-08 23:49:35
End at: 2018-01-08 23:50:05
Local clock offset: 8.967 ms
Remote clock offset: -21.196 ms

Below is generated by plot.py at 2018-01-09 01:40:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -2.194 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -2.194 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

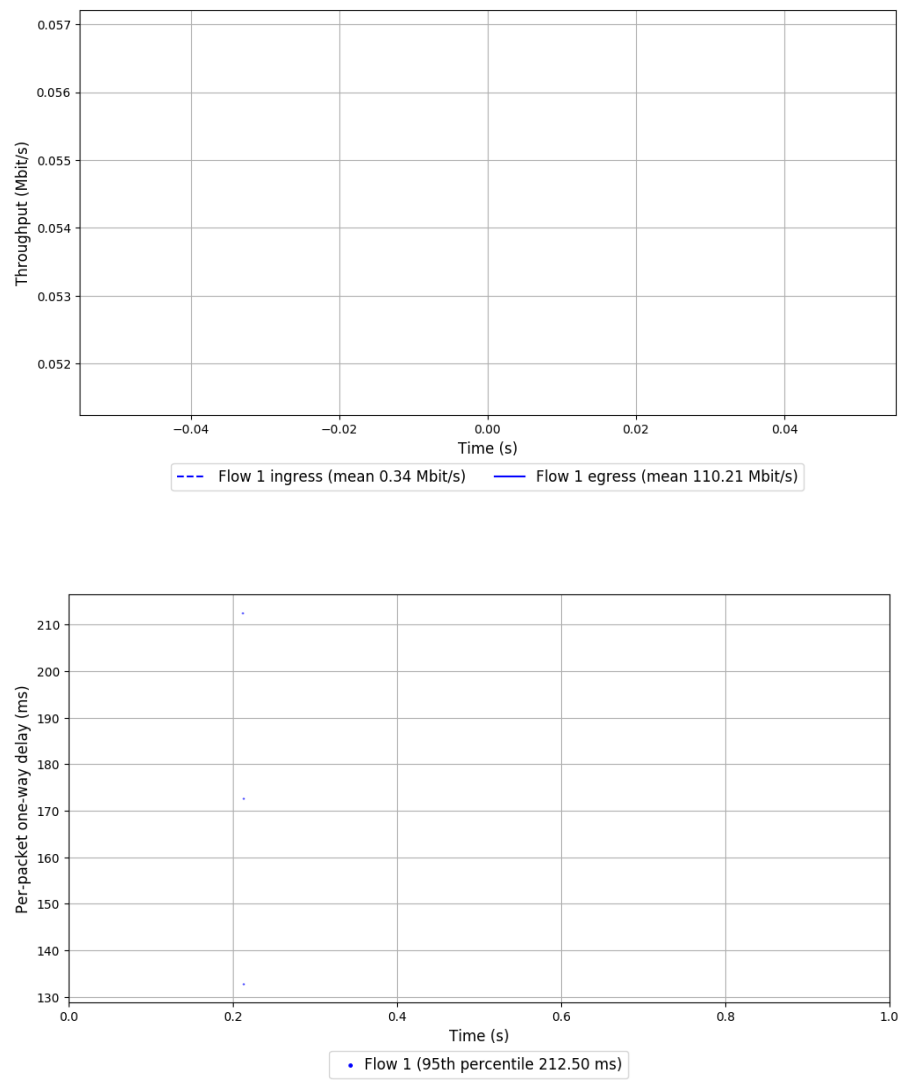
Start at: 2018-01-09 00:06:53

End at: 2018-01-09 00:07:23

Local clock offset: 12.391 ms

Remote clock offset: -20.406 ms

Run 8: Report of SReAM — Data Link

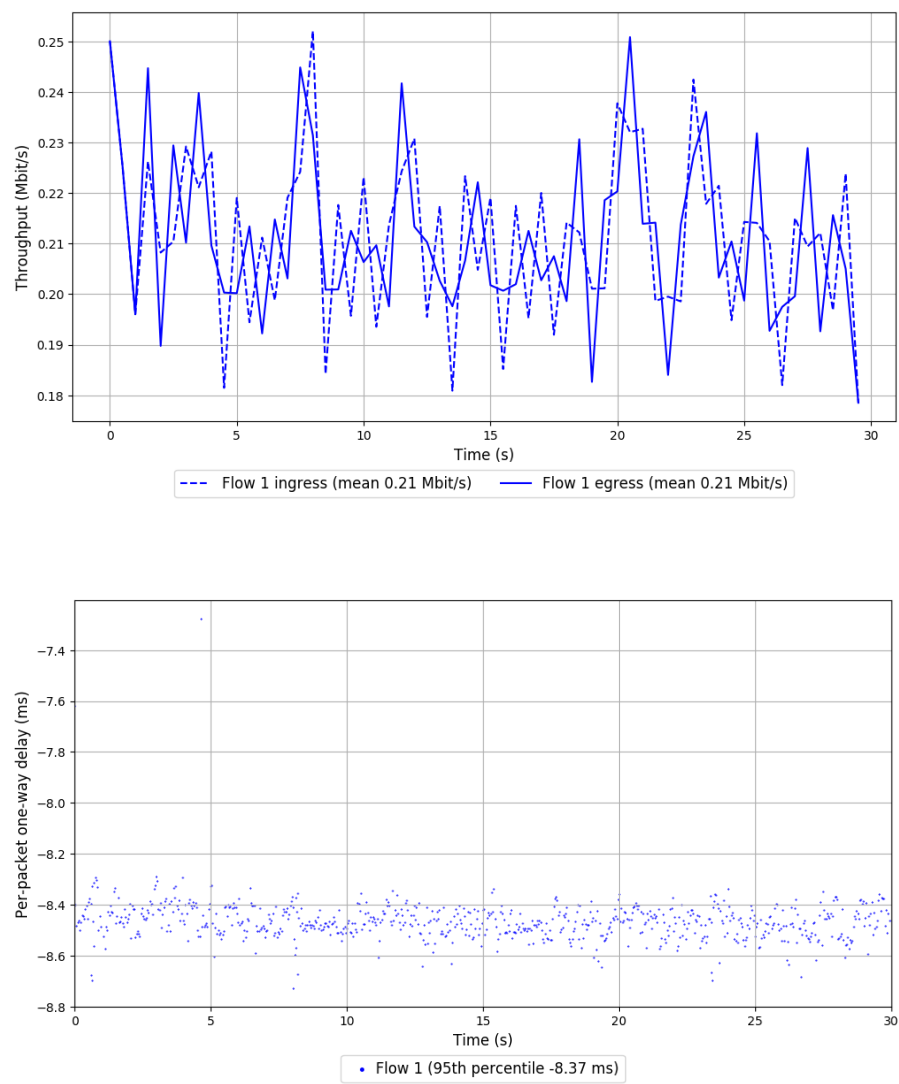


Run 9: Statistics of SCReAM

Start at: 2018-01-09 00:24:11
End at: 2018-01-09 00:24:41
Local clock offset: 11.49 ms
Remote clock offset: -21.156 ms

Below is generated by plot.py at 2018-01-09 01:40:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -8.370 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -8.370 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-01-09 00:41:42

End at: 2018-01-09 00:42:12

Local clock offset: 9.401 ms

Remote clock offset: -19.515 ms

Run 10: Report of SCReAM — Data Link

Figure is missing

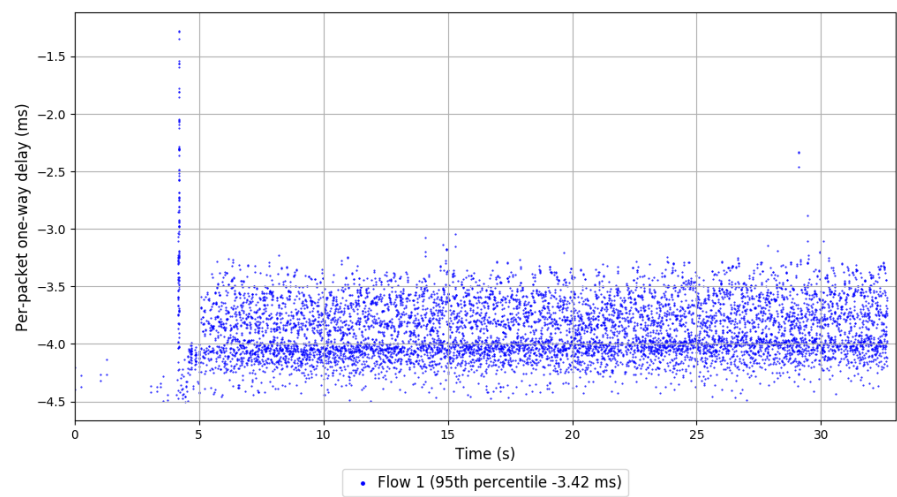
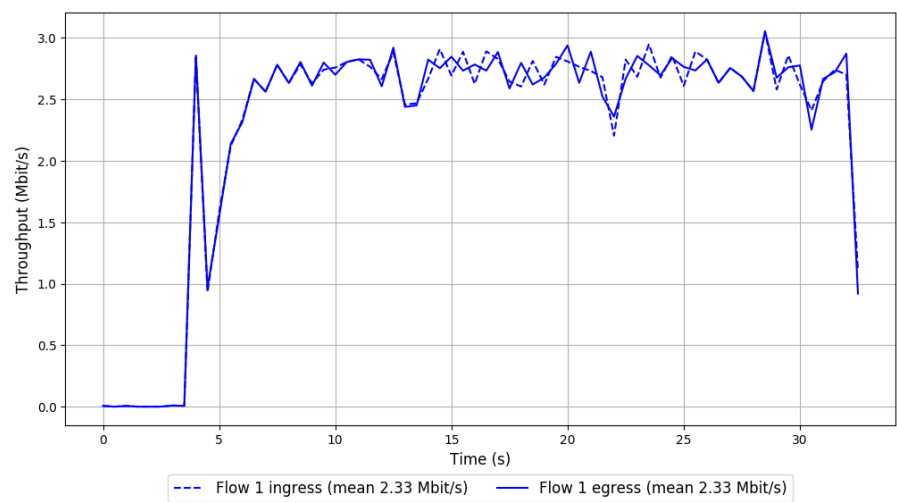
Figure is missing

```
Run 1: Statistics of WebRTC media

Start at: 2018-01-08 22:00:05
End at: 2018-01-08 22:00:35
Local clock offset: 7.995 ms
Remote clock offset: -20.209 ms

# Below is generated by plot.py at 2018-01-09 01:40:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: -3.425 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: -3.425 ms
Loss rate: 0.01%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

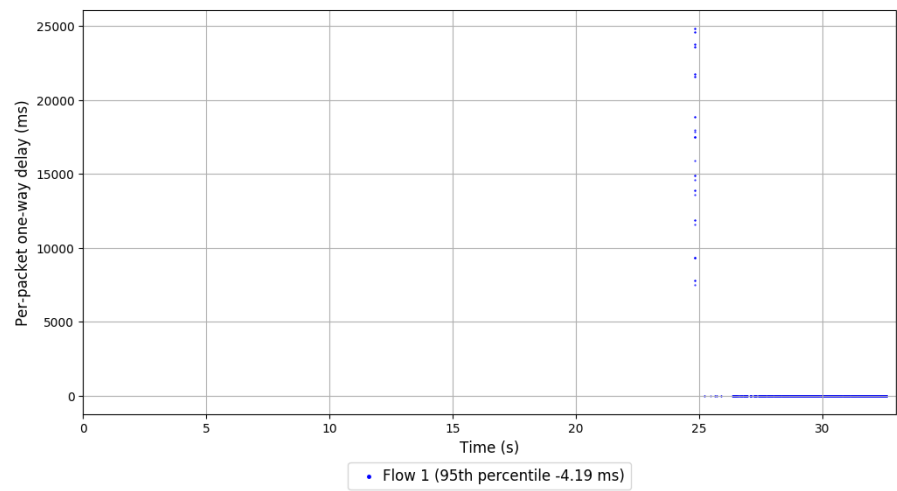
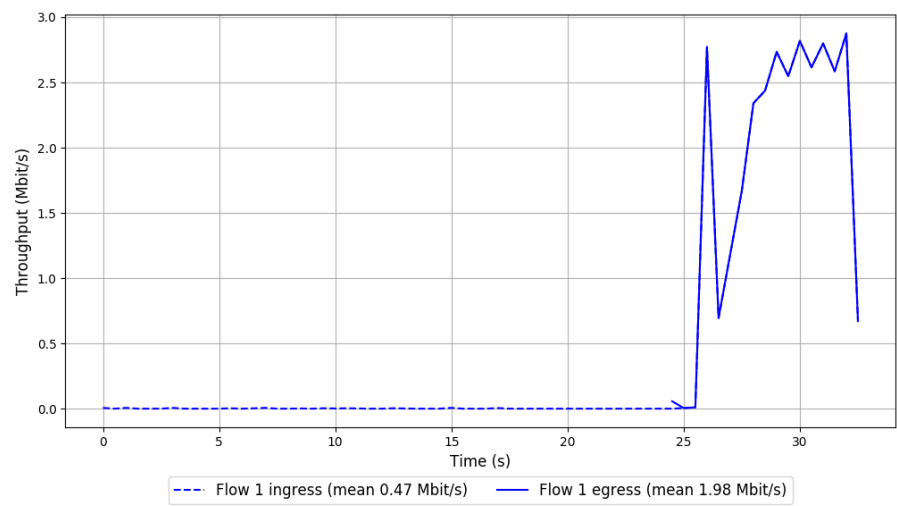
Start at: 2018-01-08 22:17:29

End at: 2018-01-08 22:17:59

Local clock offset: 13.631 ms

Remote clock offset: -18.2 ms

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

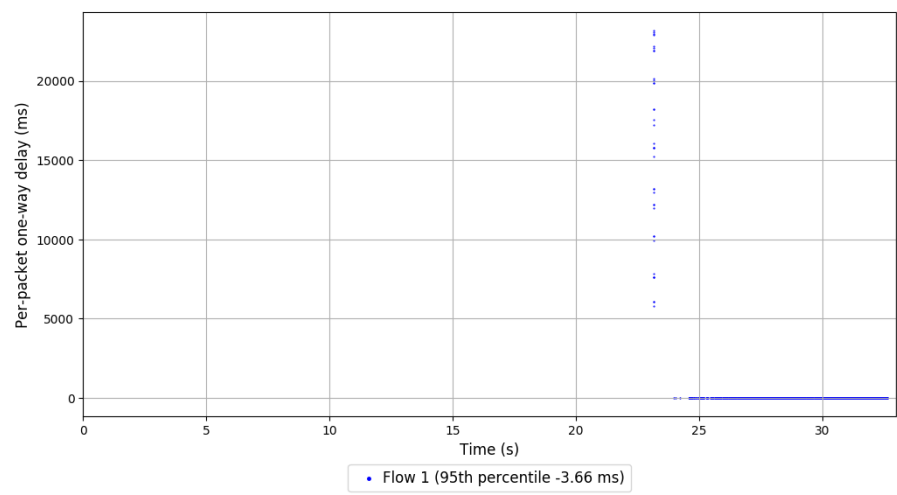
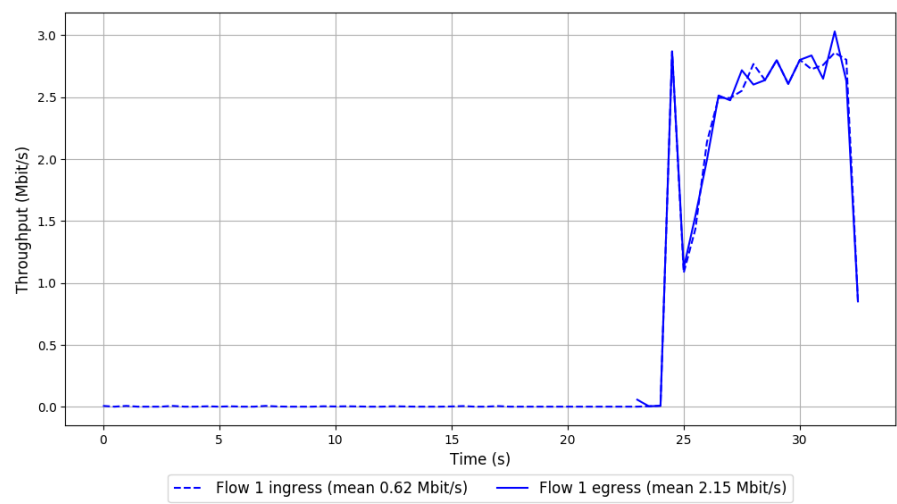
Start at: 2018-01-08 22:34:55

End at: 2018-01-08 22:35:25

Local clock offset: 10.757 ms

Remote clock offset: -20.828 ms

Run 3: Report of WebRTC media — Data Link

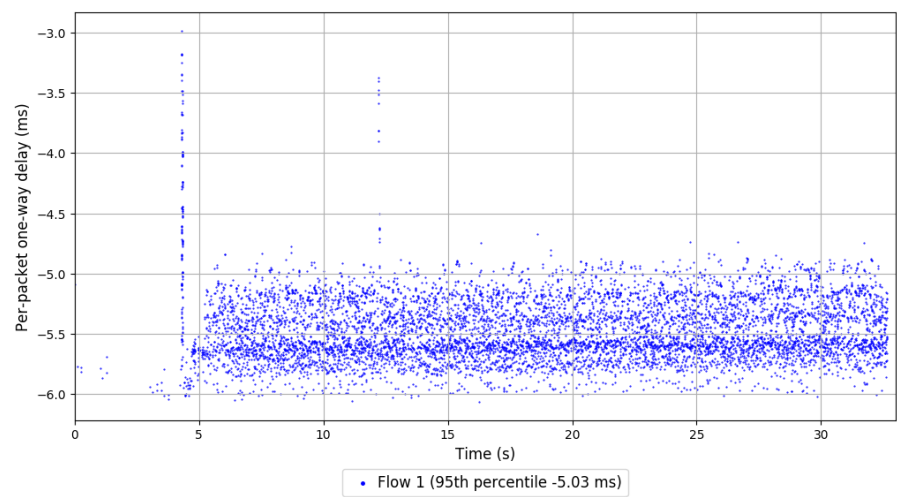
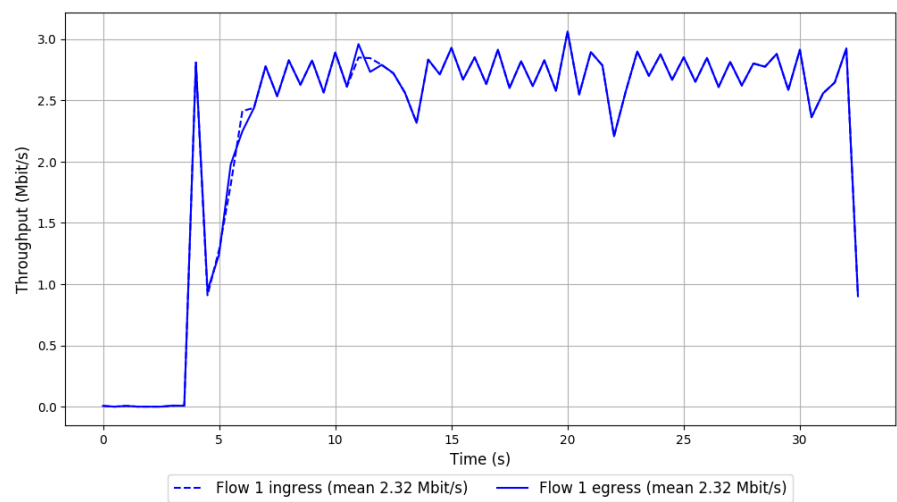


Run 4: Statistics of WebRTC media

Start at: 2018-01-08 22:52:59
End at: 2018-01-08 22:53:29
Local clock offset: 14.623 ms
Remote clock offset: -19.652 ms

Below is generated by plot.py at 2018-01-09 01:40:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: -5.033 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: -5.033 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

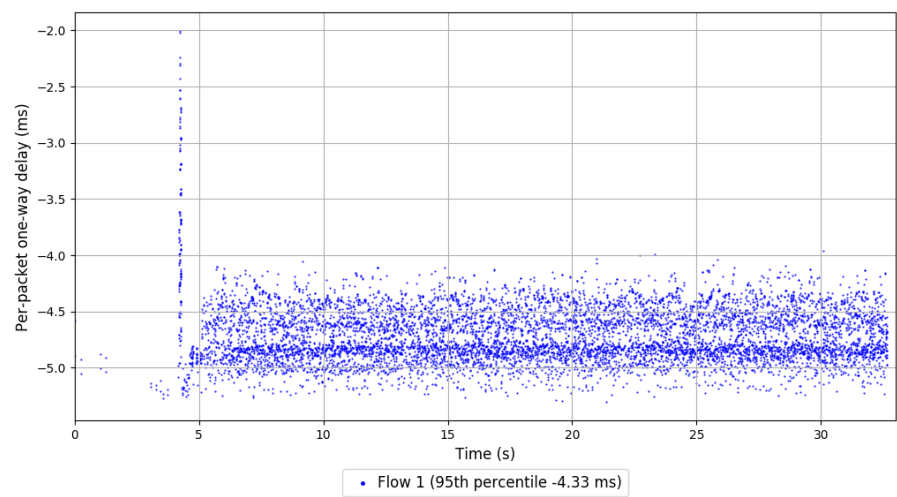
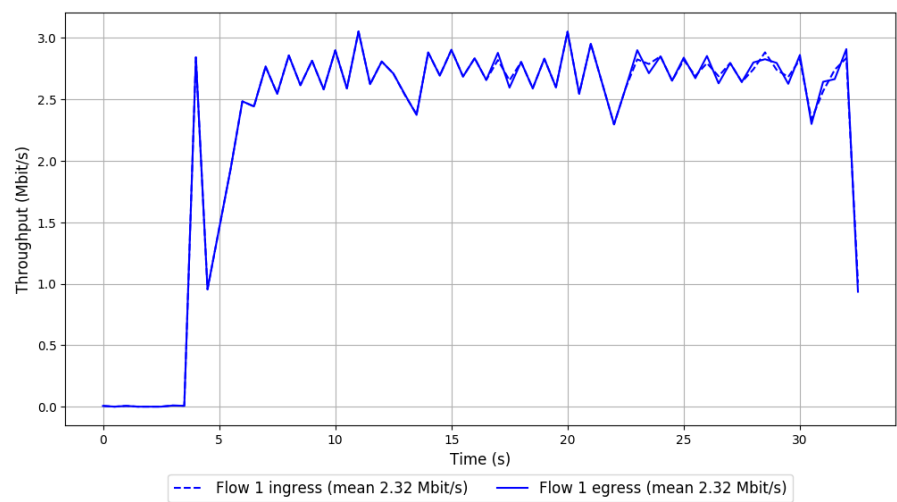


Run 5: Statistics of WebRTC media

Start at: 2018-01-08 23:10:26
End at: 2018-01-08 23:10:56
Local clock offset: 14.459 ms
Remote clock offset: -19.817 ms

Below is generated by plot.py at 2018-01-09 01:40:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: -4.326 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: -4.326 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

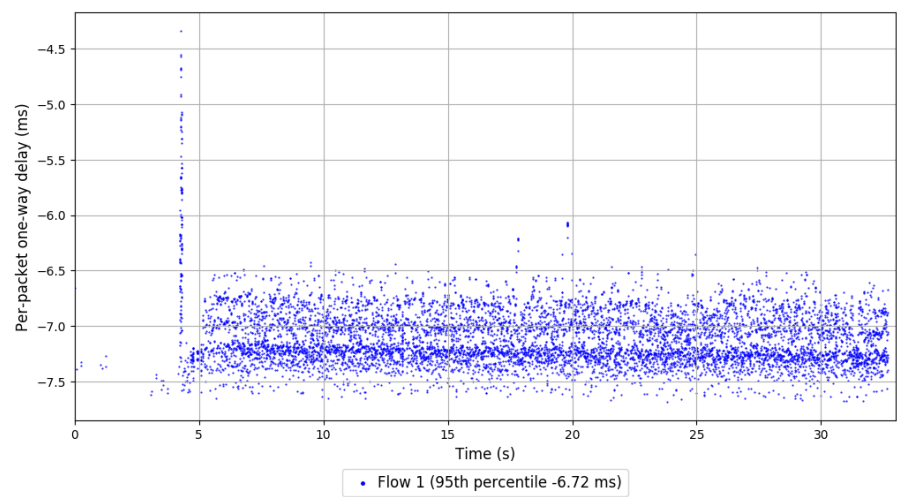
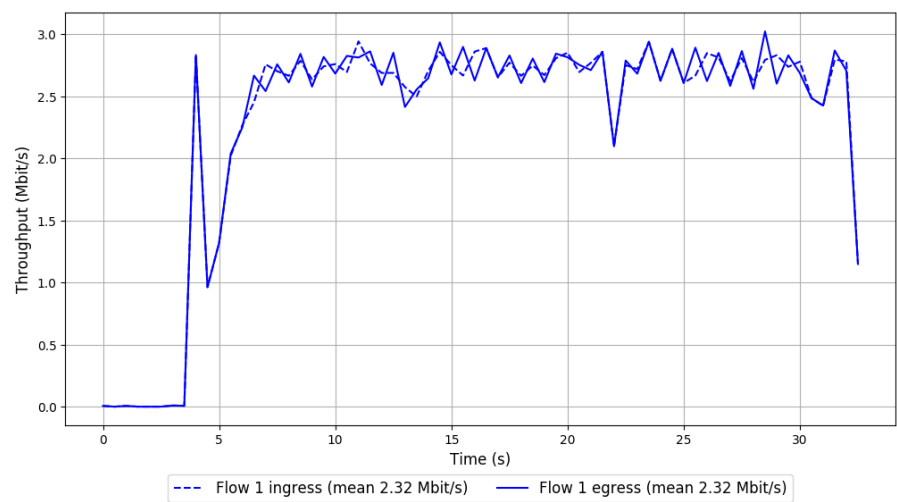


Run 6: Statistics of WebRTC media

Start at: 2018-01-08 23:27:40
End at: 2018-01-08 23:28:10
Local clock offset: 14.985 ms
Remote clock offset: -21.995 ms

Below is generated by plot.py at 2018-01-09 01:40:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: -6.718 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: -6.718 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

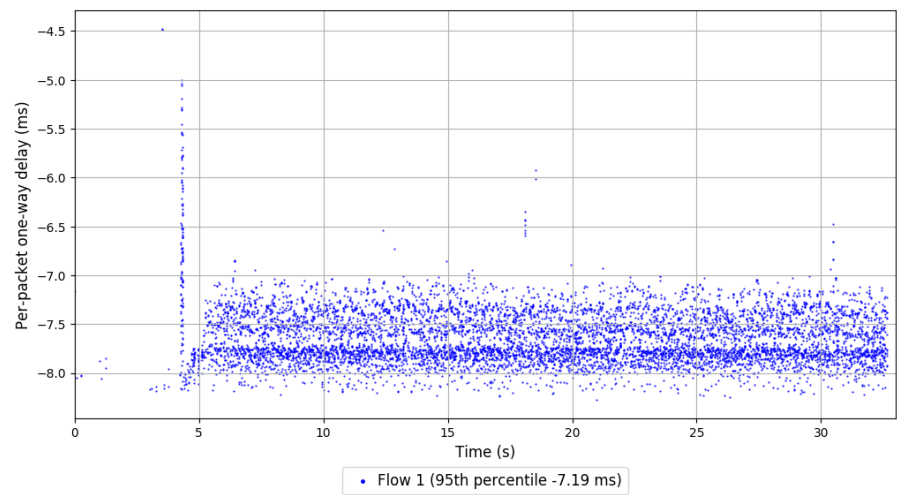
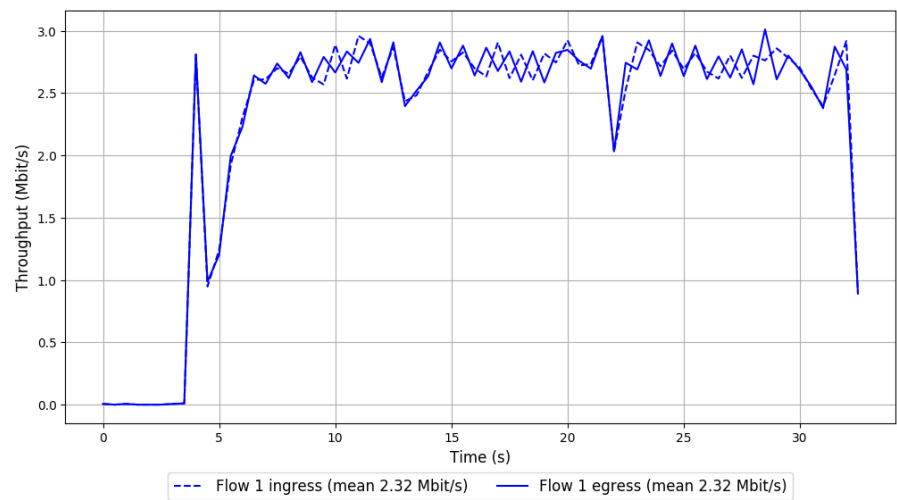


Run 7: Statistics of WebRTC media

Start at: 2018-01-08 23:44:55
End at: 2018-01-08 23:45:25
Local clock offset: 15.169 ms
Remote clock offset: -20.691 ms

Below is generated by plot.py at 2018-01-09 01:40:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: -7.191 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: -7.191 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

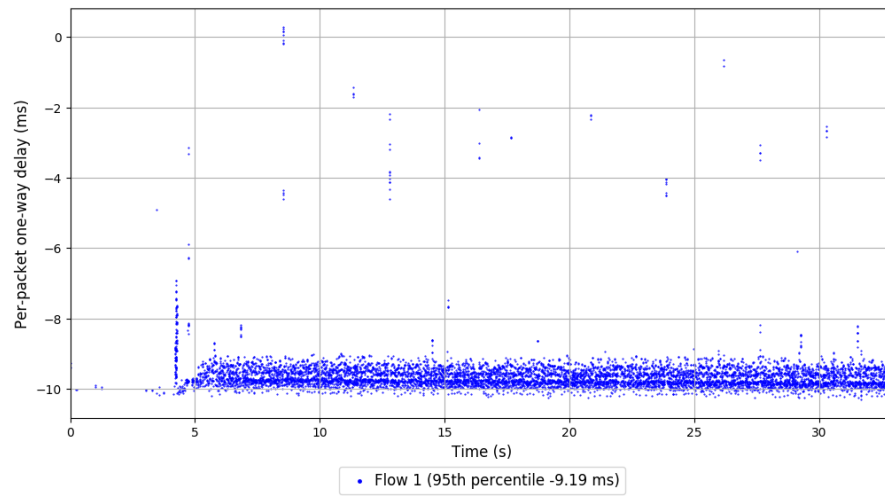
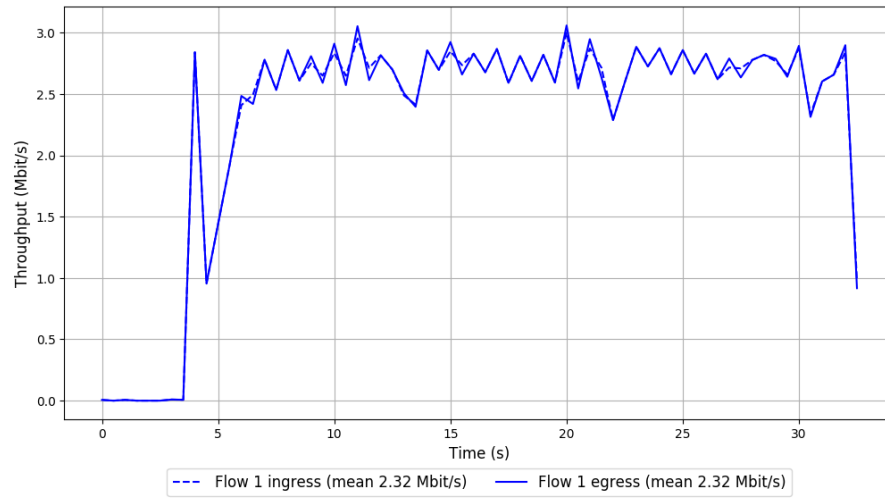


Run 8: Statistics of WebRTC media

Start at: 2018-01-09 00:02:14
End at: 2018-01-09 00:02:44
Local clock offset: 14.624 ms
Remote clock offset: -22.603 ms

Below is generated by plot.py at 2018-01-09 01:40:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: -9.190 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: -9.190 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

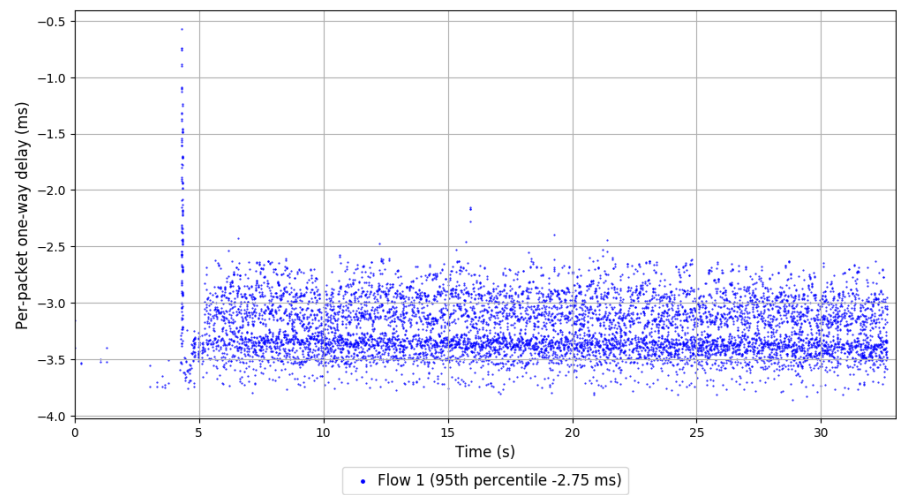
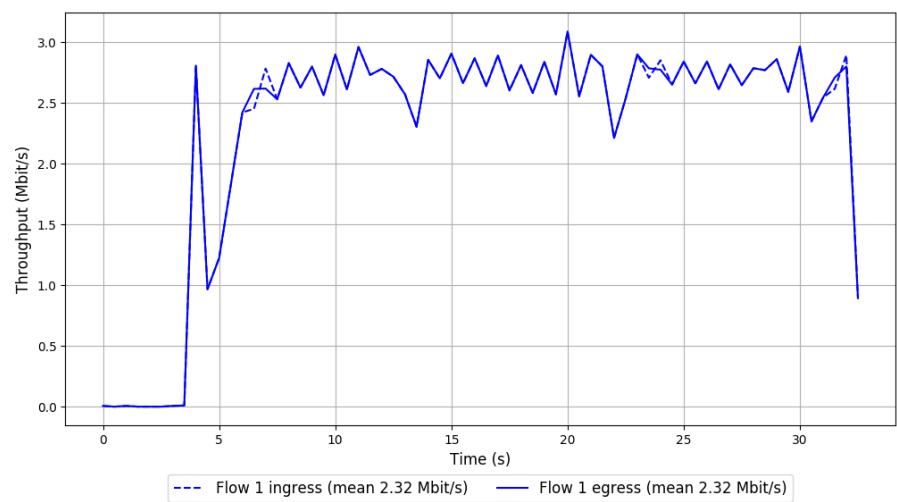


Run 9: Statistics of WebRTC media

Start at: 2018-01-09 00:19:34
End at: 2018-01-09 00:20:04
Local clock offset: 6.386 ms
Remote clock offset: -21.703 ms

Below is generated by plot.py at 2018-01-09 01:40:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: -2.754 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: -2.754 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link

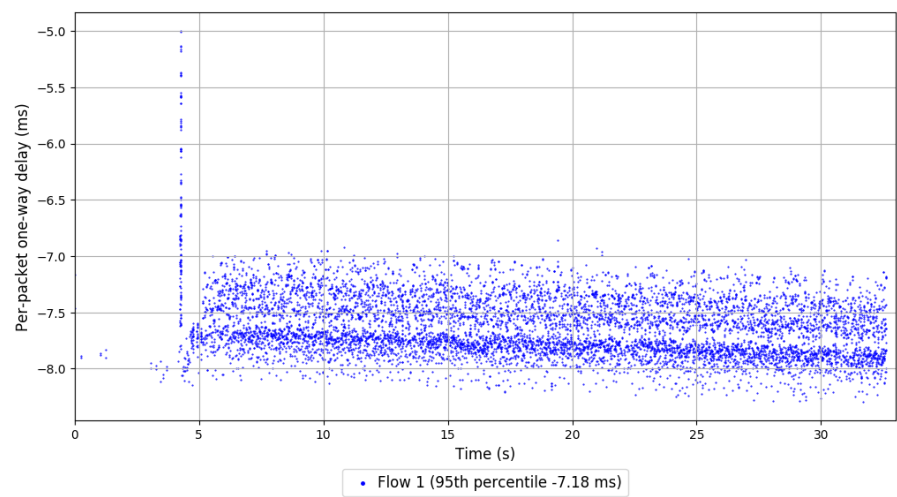
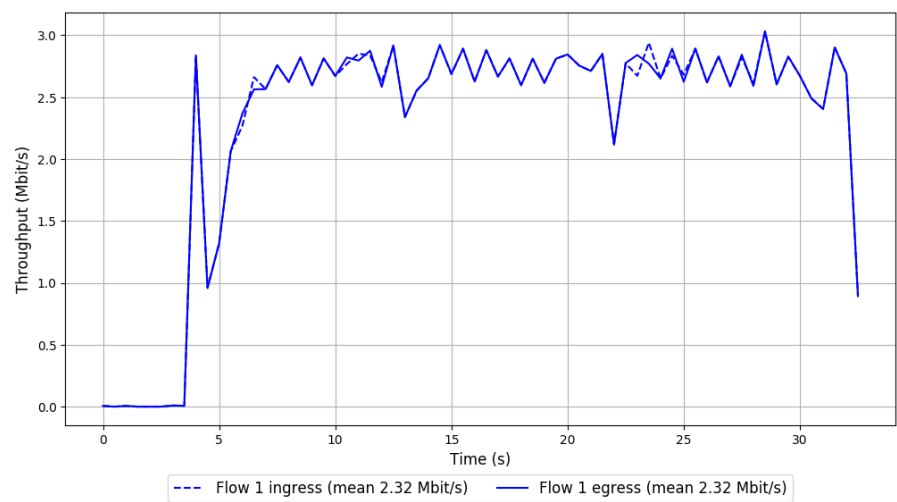


Run 10: Statistics of WebRTC media

Start at: 2018-01-09 00:36:57
End at: 2018-01-09 00:37:27
Local clock offset: 10.101 ms
Remote clock offset: -20.419 ms

Below is generated by plot.py at 2018-01-09 01:40:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: -7.180 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: -7.180 ms
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

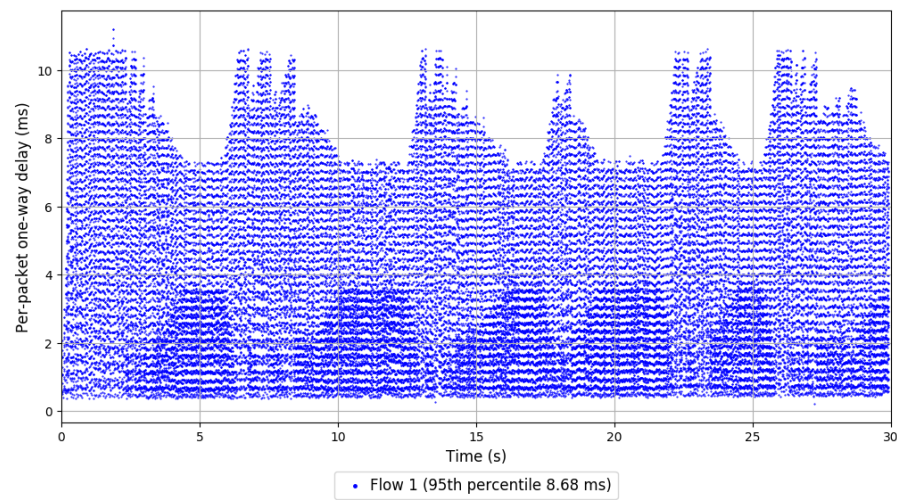
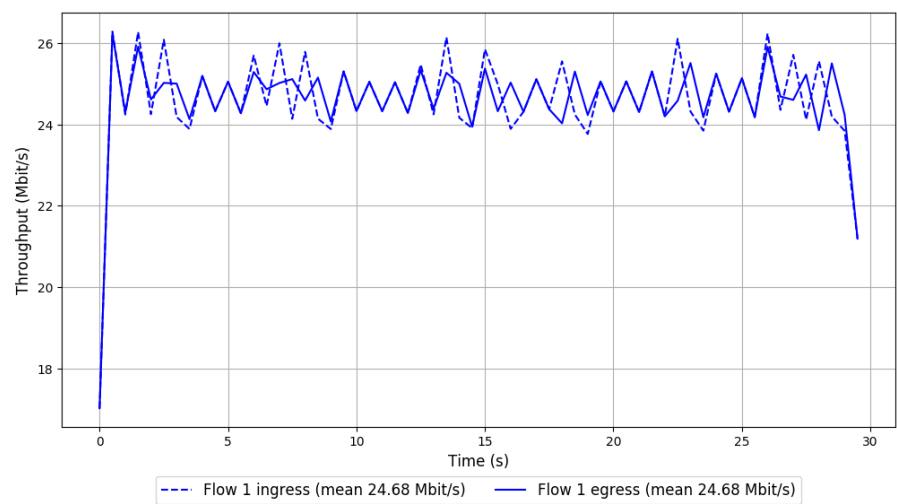


Run 1: Statistics of Sprout

Start at: 2018-01-08 21:58:58
End at: 2018-01-08 21:59:28
Local clock offset: 5.046 ms
Remote clock offset: -18.403 ms

Below is generated by plot.py at 2018-01-09 01:40:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.68 Mbit/s
95th percentile per-packet one-way delay: 8.684 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.68 Mbit/s
95th percentile per-packet one-way delay: 8.684 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

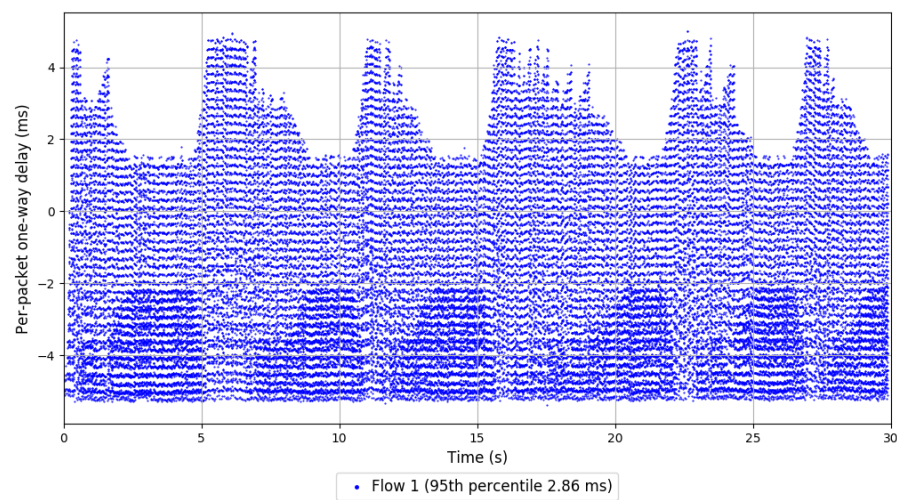
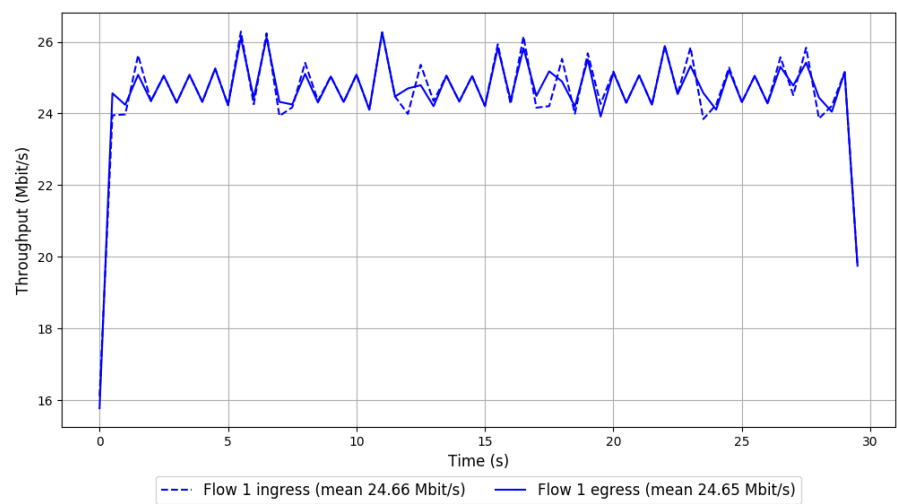


Run 2: Statistics of Sprout

Start at: 2018-01-08 22:16:23
End at: 2018-01-08 22:16:53
Local clock offset: 13.483 ms
Remote clock offset: -17.543 ms

Below is generated by plot.py at 2018-01-09 01:40:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.65 Mbit/s
95th percentile per-packet one-way delay: 2.863 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.65 Mbit/s
95th percentile per-packet one-way delay: 2.863 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-08 22:33:49

End at: 2018-01-08 22:34:19

Local clock offset: 14.74 ms

Remote clock offset: -18.7 ms

Below is generated by plot.py at 2018-01-09 01:40:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.59 Mbit/s

95th percentile per-packet one-way delay: 1.180 ms

Loss rate: 0.00%

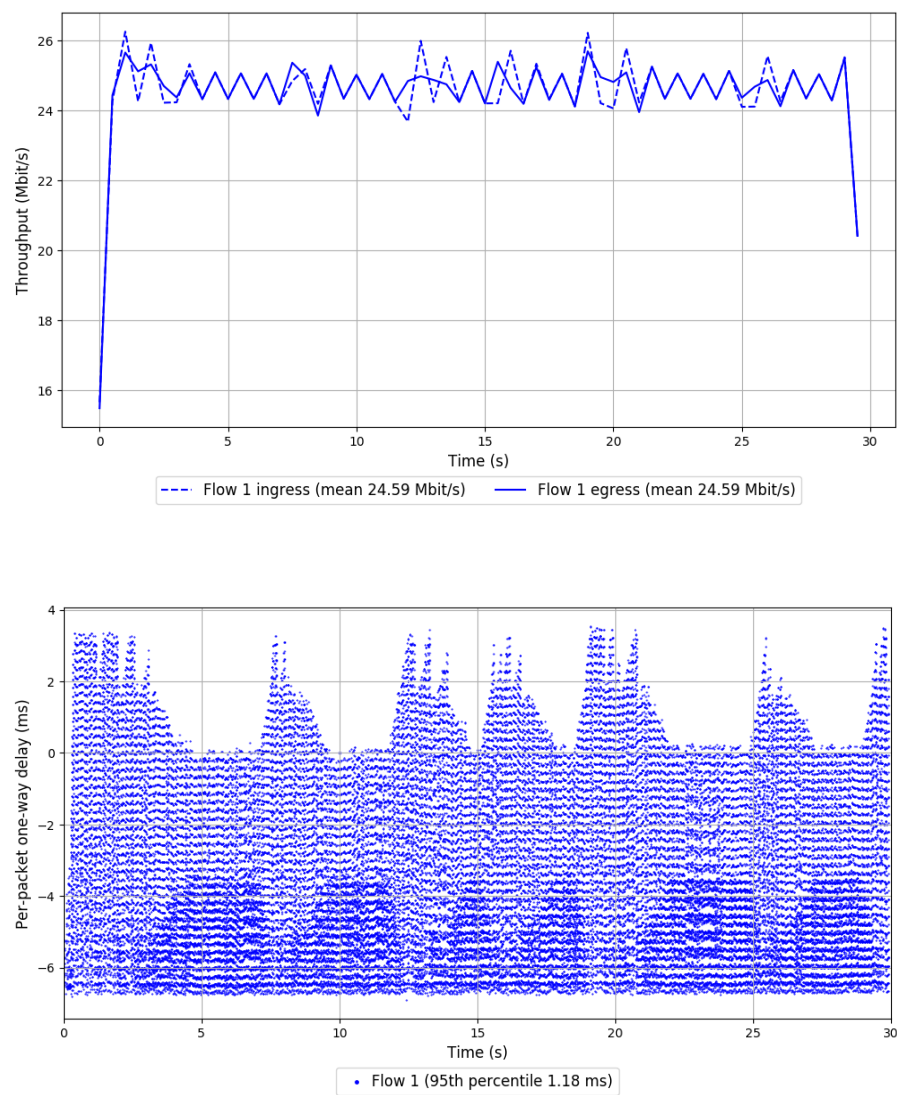
-- Flow 1:

Average throughput: 24.59 Mbit/s

95th percentile per-packet one-way delay: 1.180 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

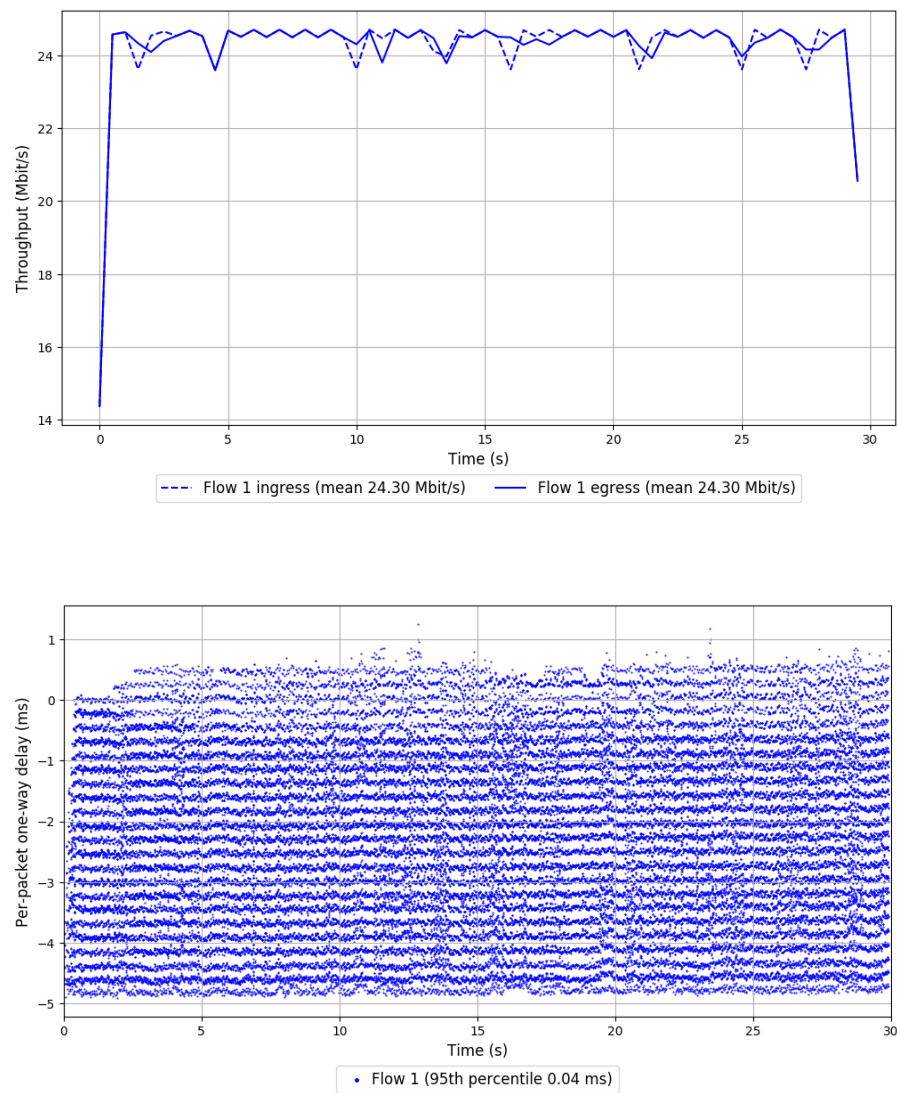


Run 4: Statistics of Sprout

Start at: 2018-01-08 22:51:54
End at: 2018-01-08 22:52:24
Local clock offset: 11.578 ms
Remote clock offset: -21.59 ms

Below is generated by plot.py at 2018-01-09 01:40:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.30 Mbit/s
95th percentile per-packet one-way delay: 0.040 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.30 Mbit/s
95th percentile per-packet one-way delay: 0.040 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

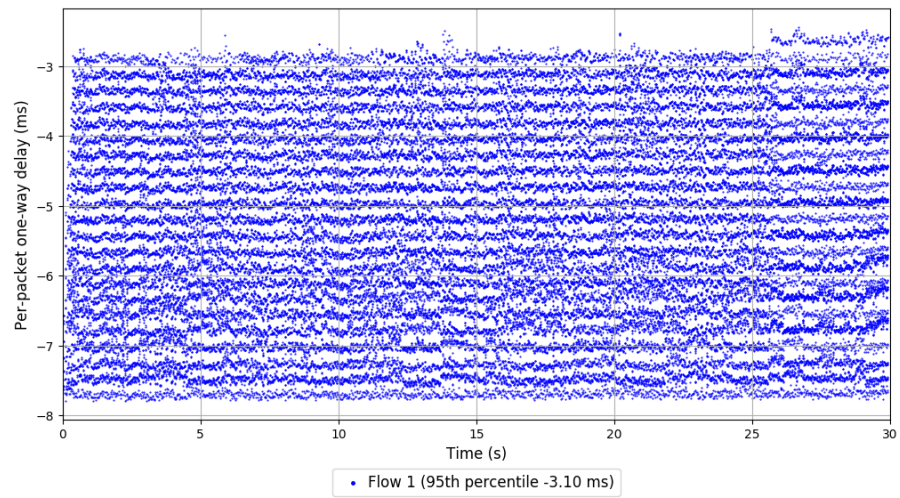
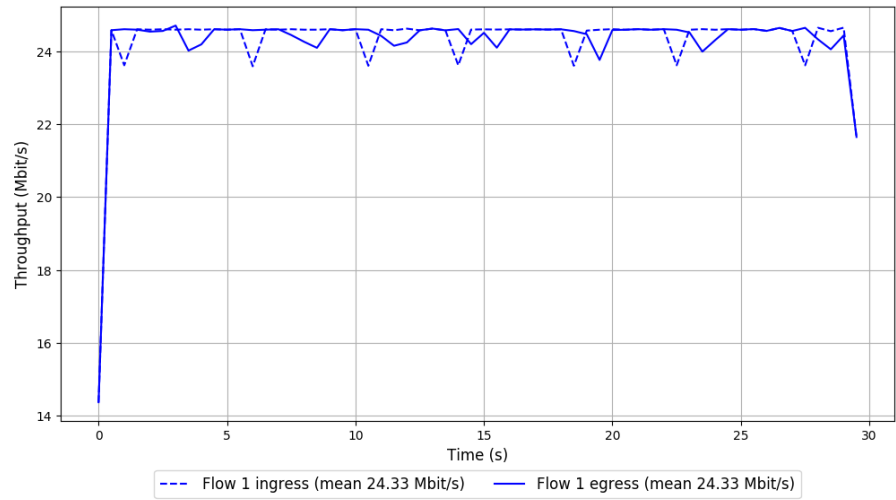


Run 5: Statistics of Sprout

Start at: 2018-01-08 23:09:21
End at: 2018-01-08 23:09:51
Local clock offset: 18.185 ms
Remote clock offset: -18.778 ms

Below is generated by plot.py at 2018-01-09 01:40:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.33 Mbit/s
95th percentile per-packet one-way delay: -3.096 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.33 Mbit/s
95th percentile per-packet one-way delay: -3.096 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

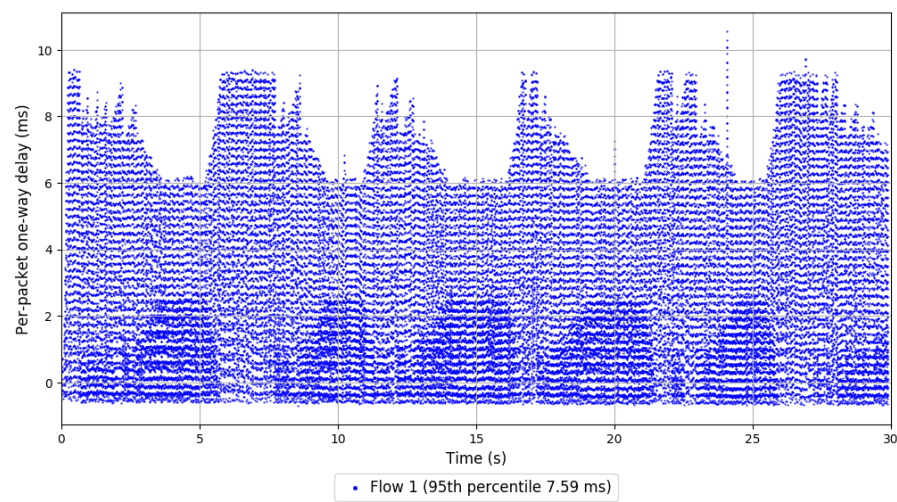
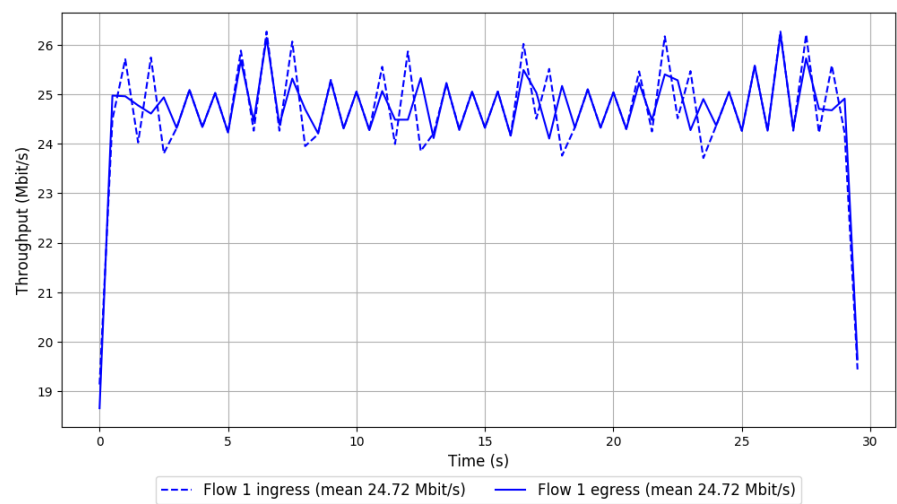


Run 6: Statistics of Sprout

Start at: 2018-01-08 23:26:34
End at: 2018-01-08 23:27:04
Local clock offset: 9.708 ms
Remote clock offset: -20.701 ms

Below is generated by plot.py at 2018-01-09 01:40:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.72 Mbit/s
95th percentile per-packet one-way delay: 7.587 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.72 Mbit/s
95th percentile per-packet one-way delay: 7.587 ms
Loss rate: 0.00%

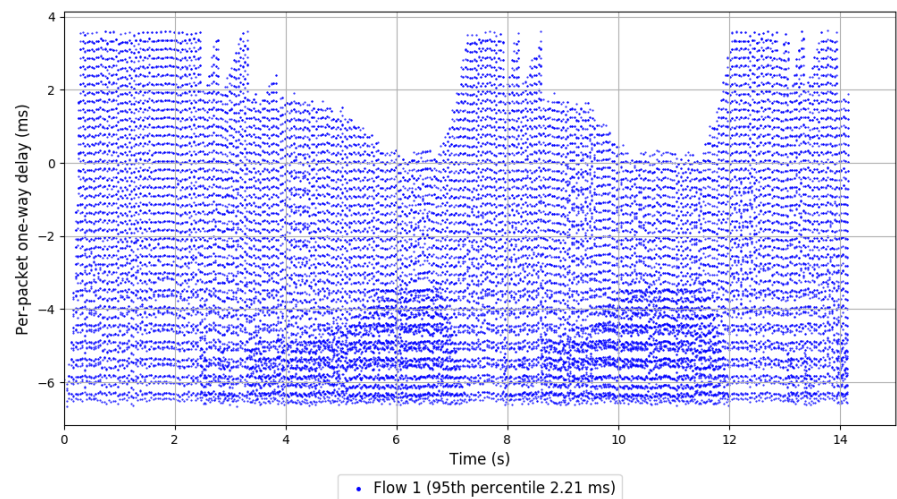
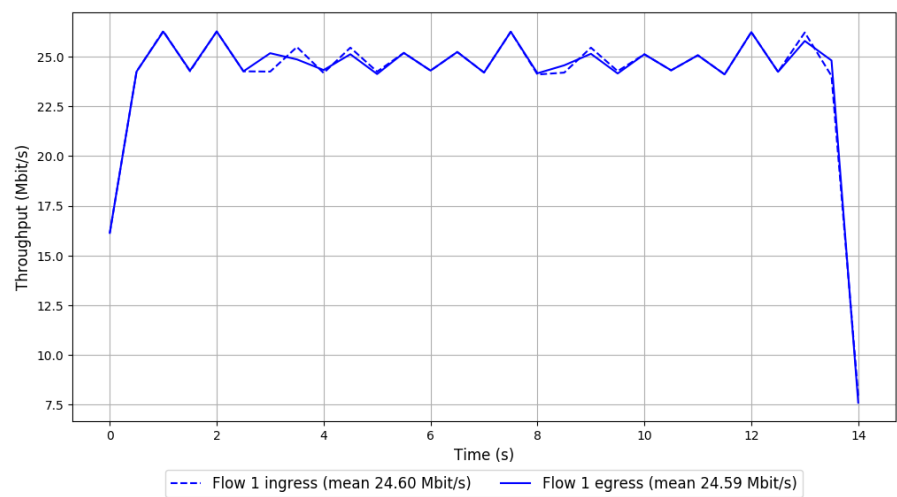
Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-08 23:43:49
End at: 2018-01-08 23:44:19
Local clock offset: 12.534 ms
Remote clock offset: -22.006 ms

Run 7: Report of Sprout — Data Link

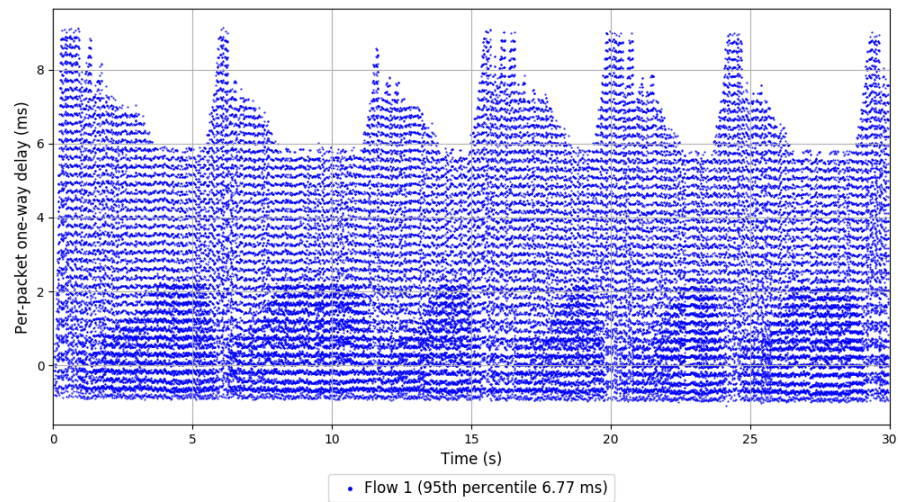
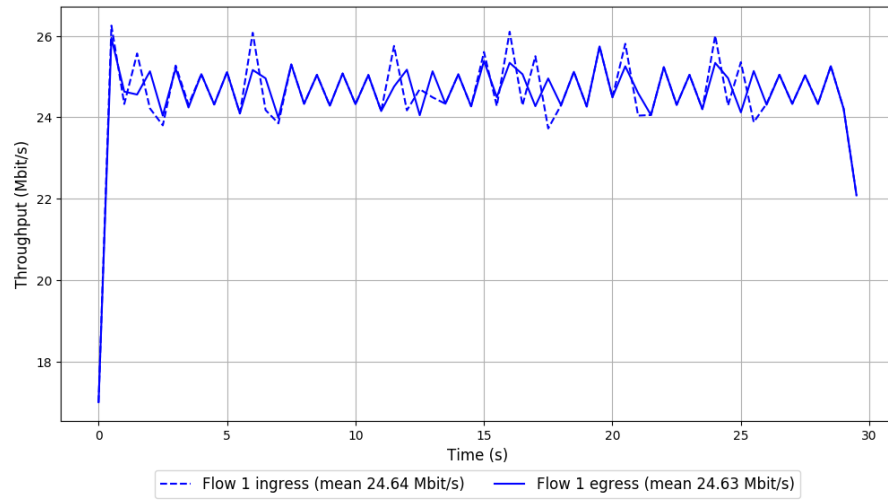


Run 8: Statistics of Sprout

Start at: 2018-01-09 00:01:08
End at: 2018-01-09 00:01:38
Local clock offset: 7.25 ms
Remote clock offset: -21.206 ms

Below is generated by plot.py at 2018-01-09 01:40:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.63 Mbit/s
95th percentile per-packet one-way delay: 6.771 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.63 Mbit/s
95th percentile per-packet one-way delay: 6.771 ms
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

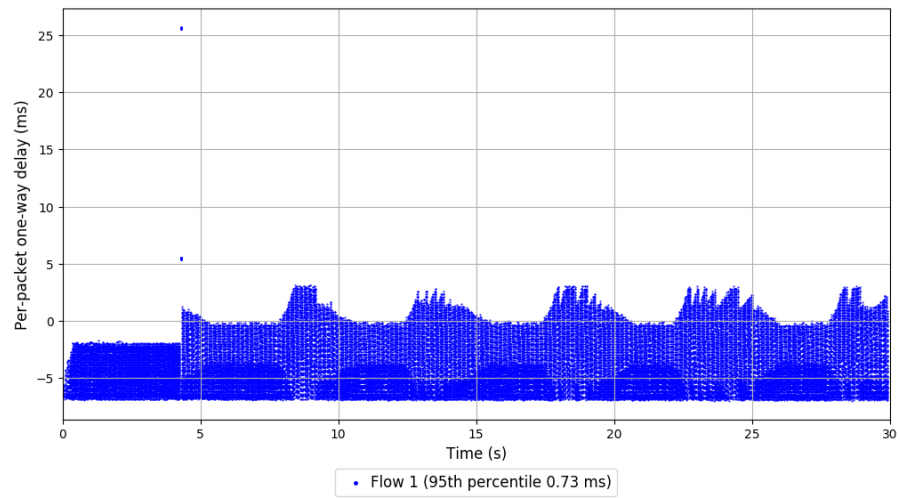
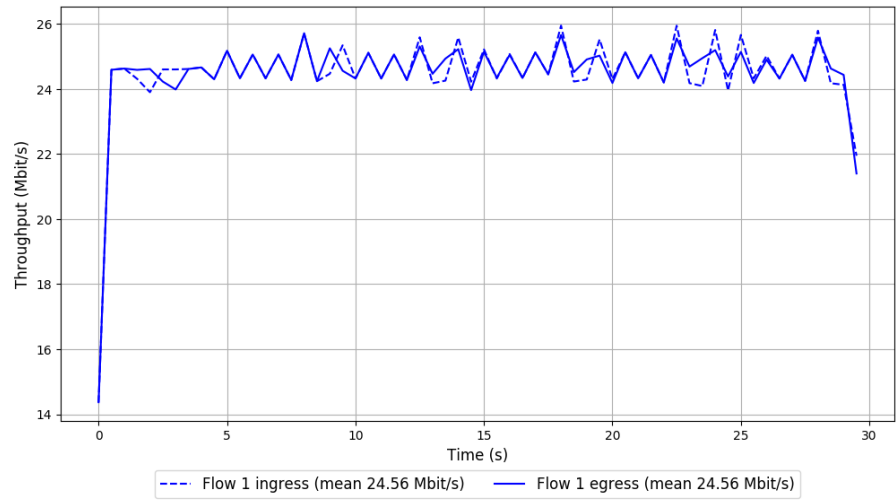


Run 9: Statistics of Sprout

Start at: 2018-01-09 00:18:29
End at: 2018-01-09 00:18:59
Local clock offset: 9.676 ms
Remote clock offset: -21.895 ms

Below is generated by plot.py at 2018-01-09 01:40:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.56 Mbit/s
95th percentile per-packet one-way delay: 0.727 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.56 Mbit/s
95th percentile per-packet one-way delay: 0.727 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

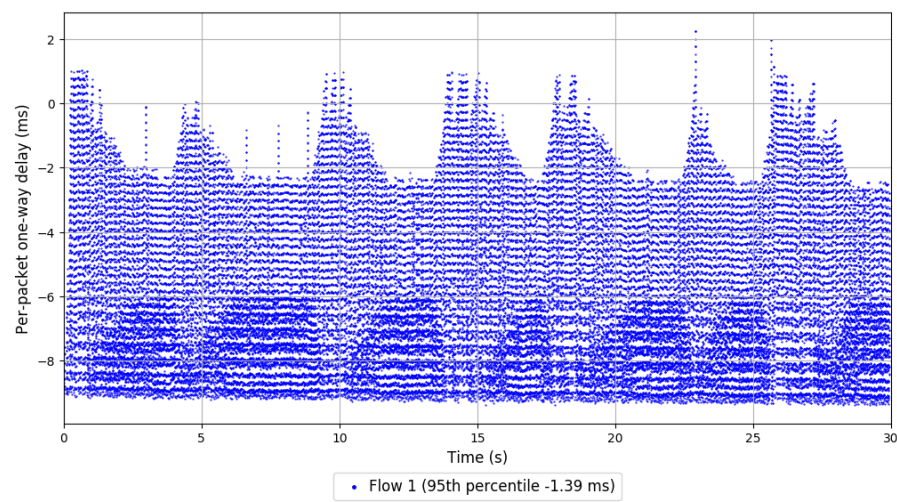
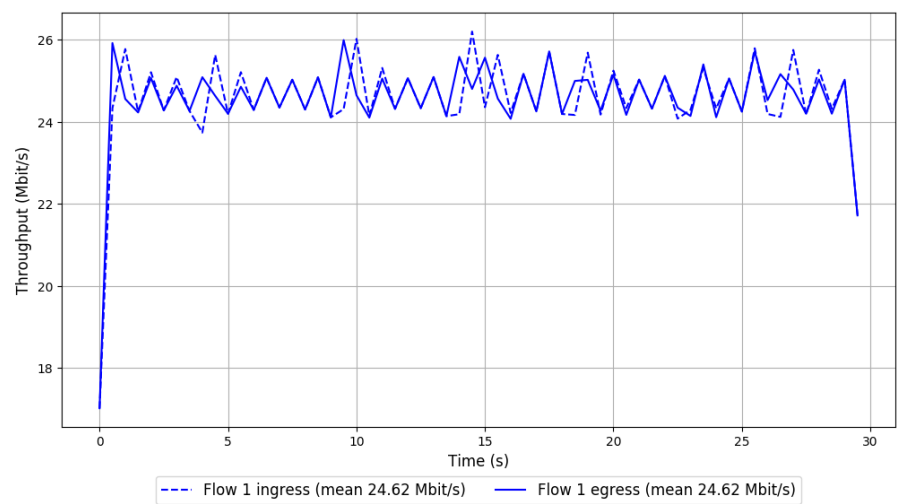


Run 10: Statistics of Sprout

Start at: 2018-01-09 00:35:51
End at: 2018-01-09 00:36:21
Local clock offset: 10.746 ms
Remote clock offset: -21.63 ms

Below is generated by plot.py at 2018-01-09 01:40:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.62 Mbit/s
95th percentile per-packet one-way delay: -1.393 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.62 Mbit/s
95th percentile per-packet one-way delay: -1.393 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

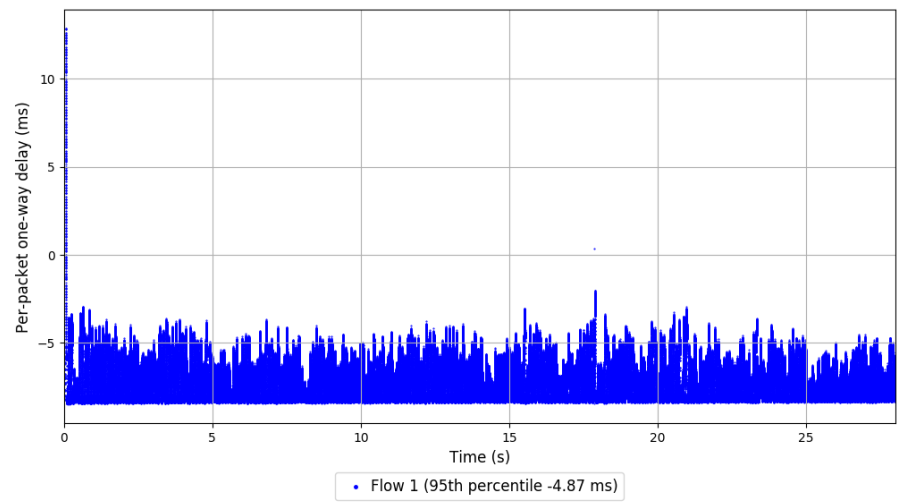
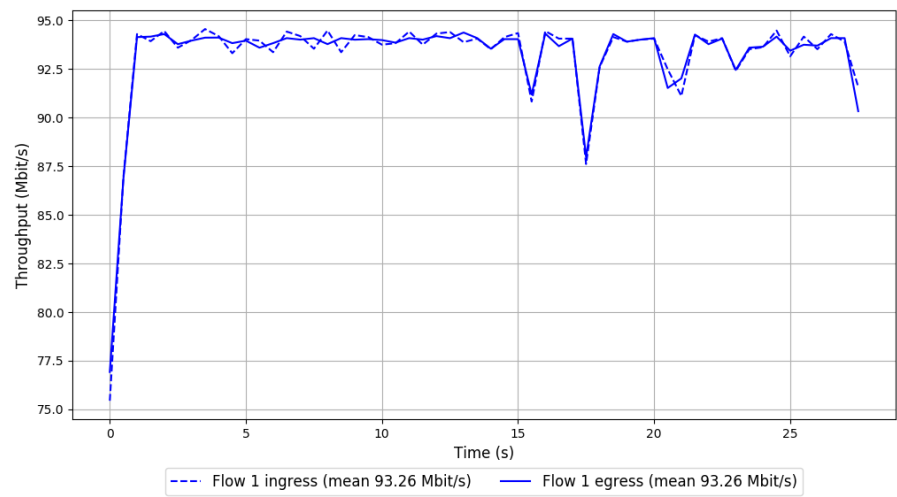


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-08 21:54:10
End at: 2018-01-08 21:54:40
Local clock offset: 11.364 ms
Remote clock offset: -20.271 ms

# Below is generated by plot.py at 2018-01-09 01:44:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.26 Mbit/s
95th percentile per-packet one-way delay: -4.872 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 93.26 Mbit/s
95th percentile per-packet one-way delay: -4.872 ms
Loss rate: 0.00%
```

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

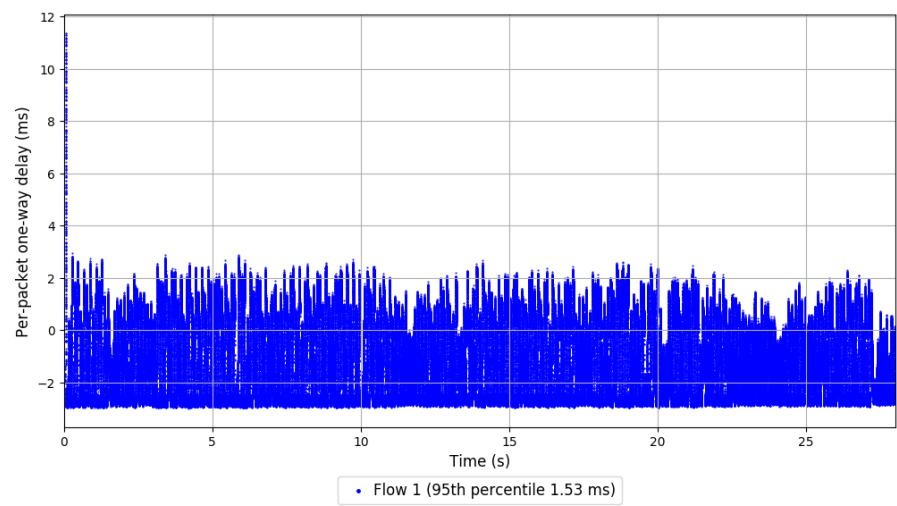
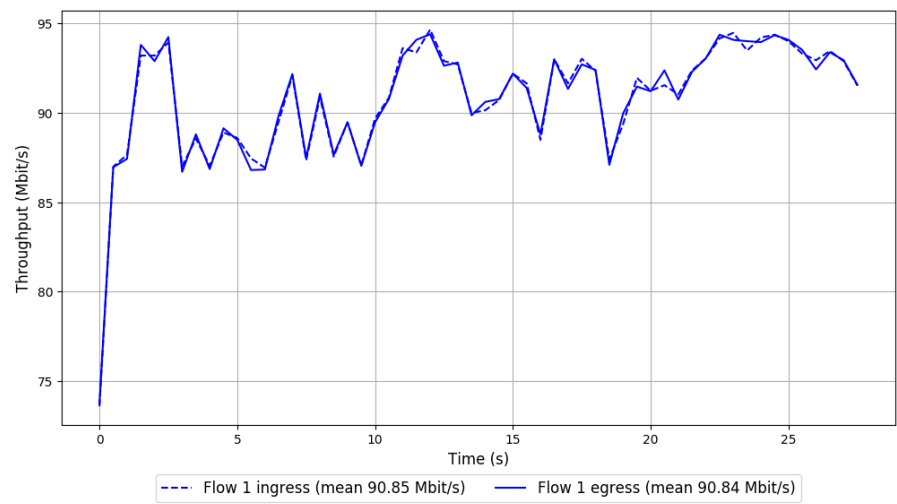


Run 2: Statistics of TaoVA-100x

Start at: 2018-01-08 22:11:40
End at: 2018-01-08 22:12:10
Local clock offset: 9.539 ms
Remote clock offset: -18.645 ms

Below is generated by plot.py at 2018-01-09 01:44:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.84 Mbit/s
95th percentile per-packet one-way delay: 1.535 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.84 Mbit/s
95th percentile per-packet one-way delay: 1.535 ms
Loss rate: 0.00%

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

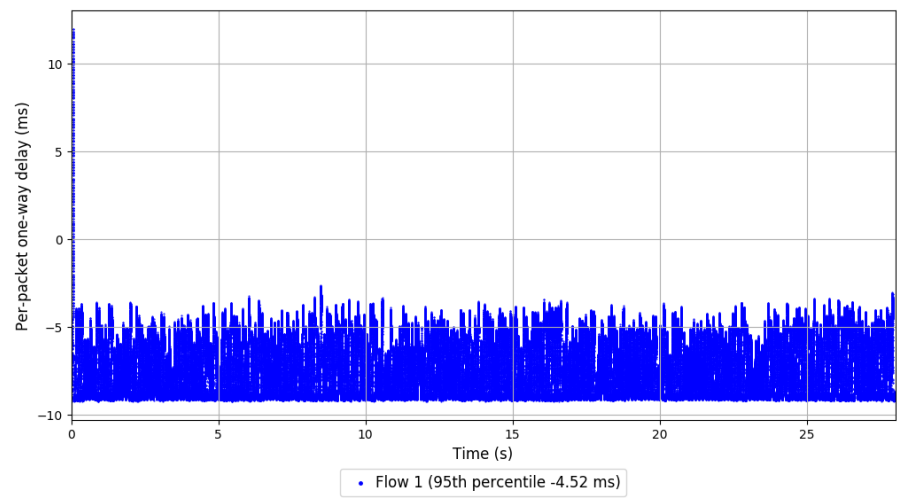
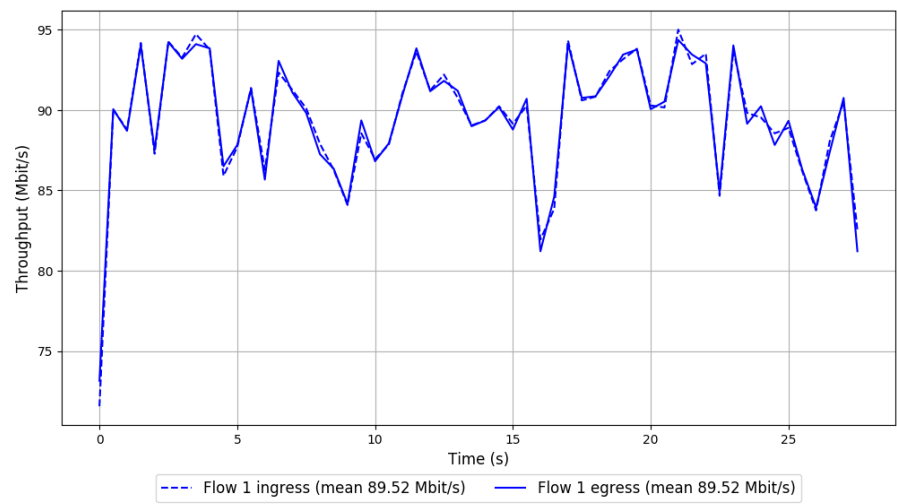


Run 3: Statistics of TaoVA-100x

Start at: 2018-01-08 22:29:05
End at: 2018-01-08 22:29:35
Local clock offset: 15.569 ms
Remote clock offset: -20.192 ms

Below is generated by plot.py at 2018-01-09 01:44:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.52 Mbit/s
95th percentile per-packet one-way delay: -4.524 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.52 Mbit/s
95th percentile per-packet one-way delay: -4.524 ms
Loss rate: 0.00%

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

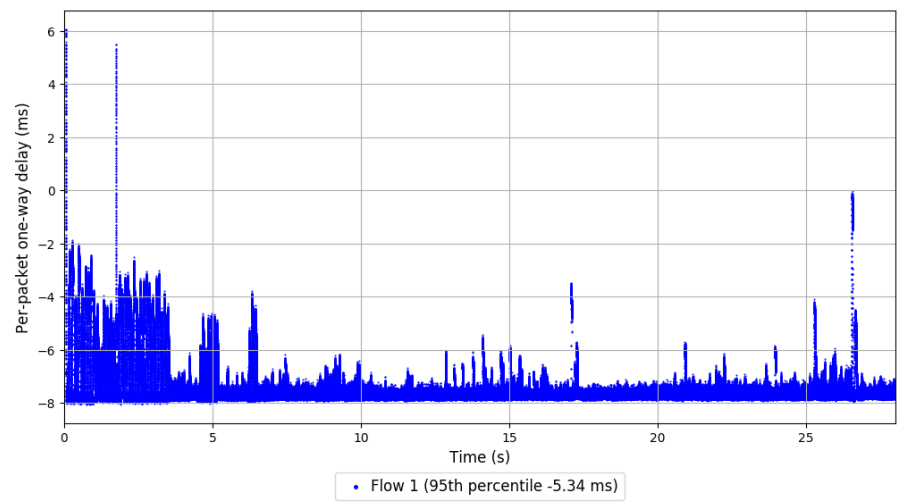
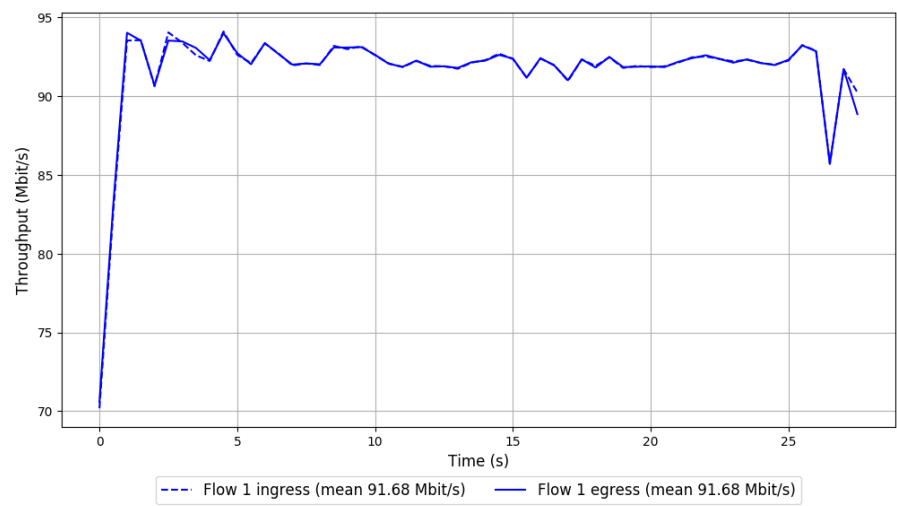


Run 4: Statistics of TaoVA-100x

Start at: 2018-01-08 22:46:36
End at: 2018-01-08 22:47:06
Local clock offset: 17.24 ms
Remote clock offset: -18.508 ms

Below is generated by plot.py at 2018-01-09 01:44:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.68 Mbit/s
95th percentile per-packet one-way delay: -5.336 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 91.68 Mbit/s
95th percentile per-packet one-way delay: -5.336 ms
Loss rate: 0.00%

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

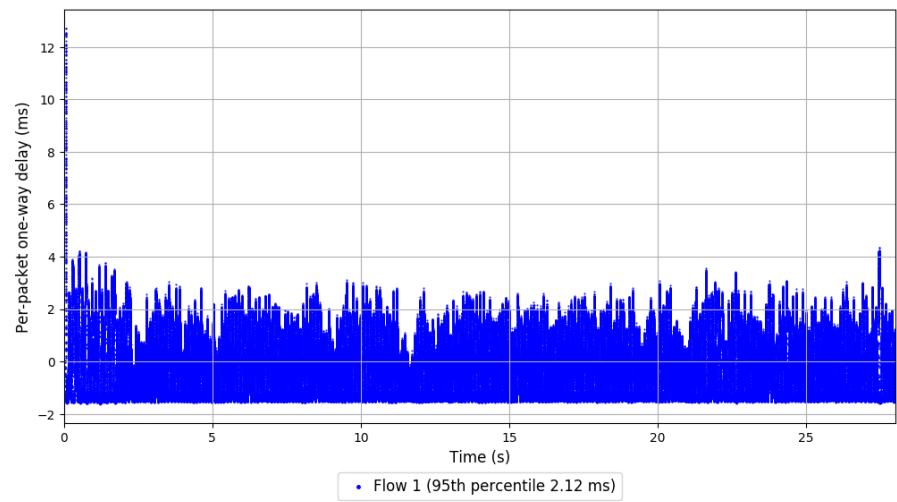
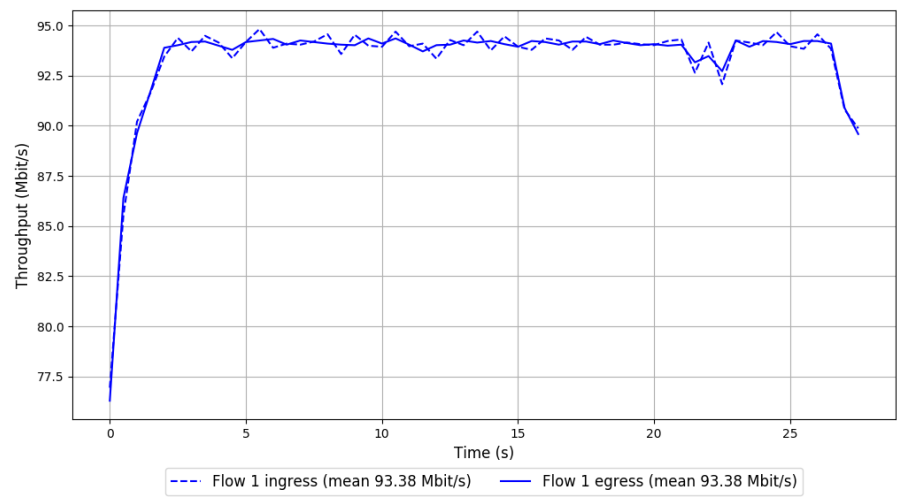


Run 5: Statistics of TaoVA-100x

Start at: 2018-01-08 23:04:36
End at: 2018-01-08 23:05:06
Local clock offset: 8.835 ms
Remote clock offset: -21.792 ms

Below is generated by plot.py at 2018-01-09 01:45:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.38 Mbit/s
95th percentile per-packet one-way delay: 2.115 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 93.38 Mbit/s
95th percentile per-packet one-way delay: 2.115 ms
Loss rate: 0.00%

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

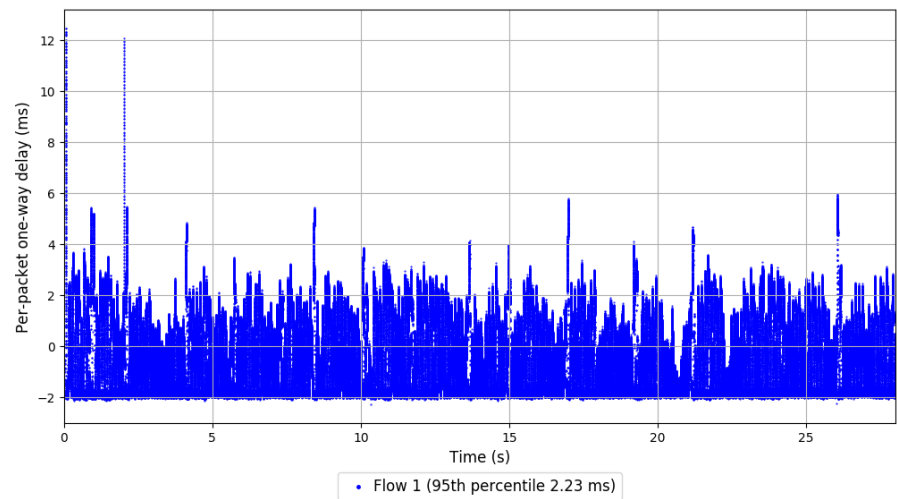
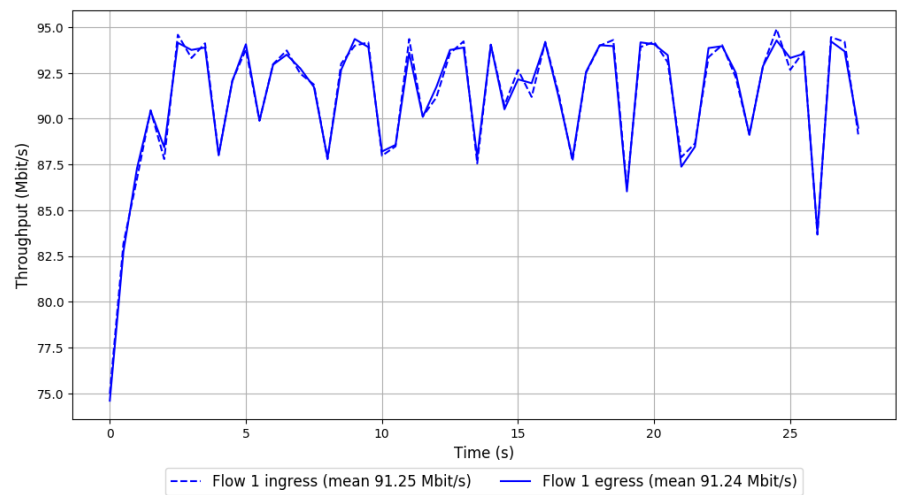


Run 6: Statistics of TaoVA-100x

Start at: 2018-01-08 23:21:54
End at: 2018-01-08 23:22:24
Local clock offset: 10.441 ms
Remote clock offset: -21.411 ms

Below is generated by plot.py at 2018-01-09 01:45:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.24 Mbit/s
95th percentile per-packet one-way delay: 2.229 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 91.24 Mbit/s
95th percentile per-packet one-way delay: 2.229 ms
Loss rate: 0.00%

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

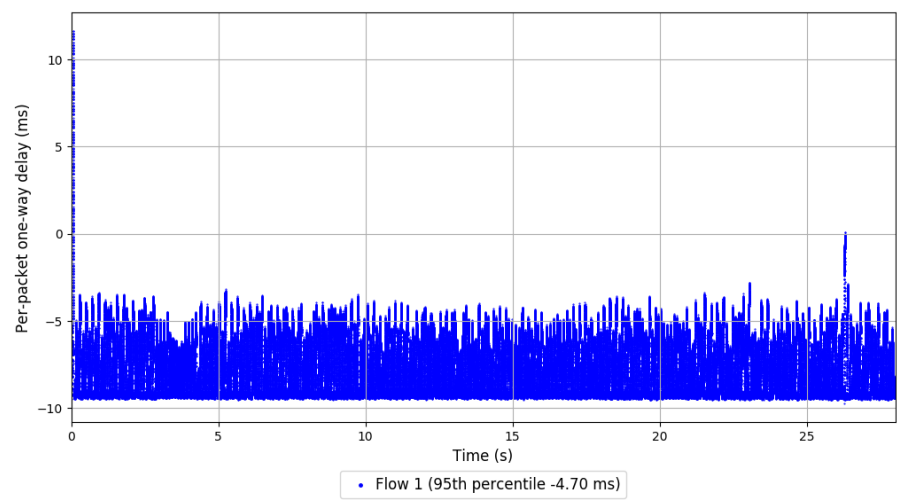
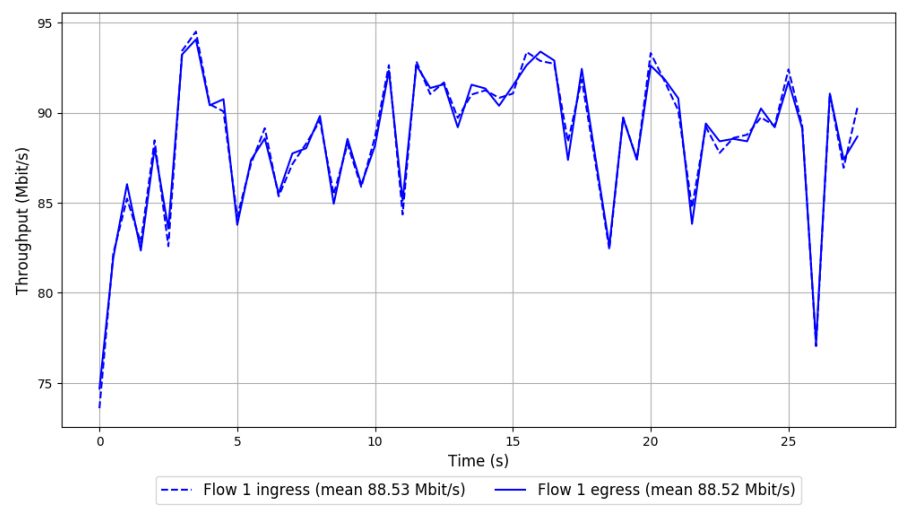


Run 7: Statistics of TaoVA-100x

Start at: 2018-01-08 23:39:08
End at: 2018-01-08 23:39:38
Local clock offset: 16.235 ms
Remote clock offset: -21.506 ms

Below is generated by plot.py at 2018-01-09 01:45:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.52 Mbit/s
95th percentile per-packet one-way delay: -4.696 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 88.52 Mbit/s
95th percentile per-packet one-way delay: -4.696 ms
Loss rate: 0.00%

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

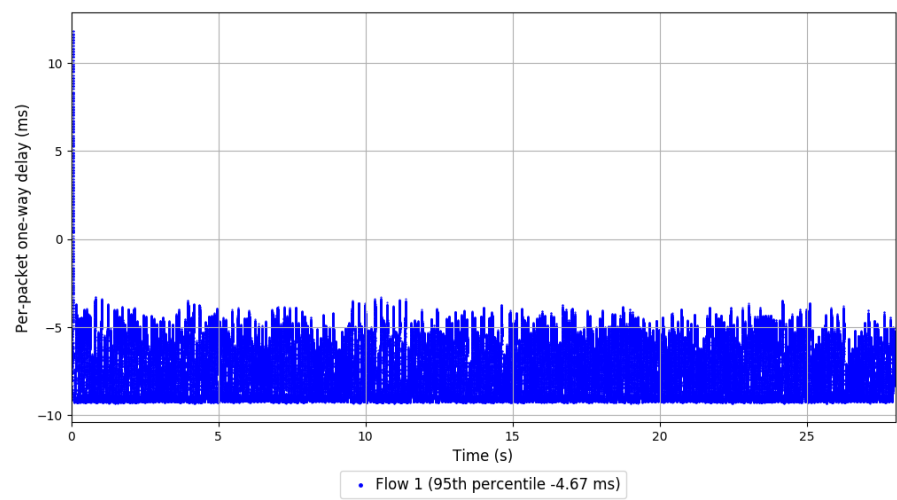
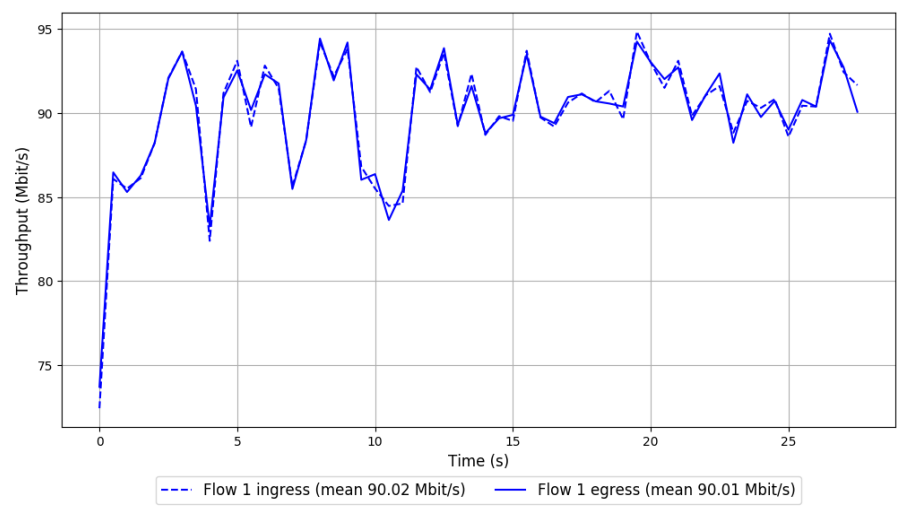


Run 8: Statistics of TaoVA-100x

Start at: 2018-01-08 23:56:26
End at: 2018-01-08 23:56:56
Local clock offset: 13.82 ms
Remote clock offset: -23.134 ms

Below is generated by plot.py at 2018-01-09 01:45:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.01 Mbit/s
95th percentile per-packet one-way delay: -4.668 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.01 Mbit/s
95th percentile per-packet one-way delay: -4.668 ms
Loss rate: 0.00%

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

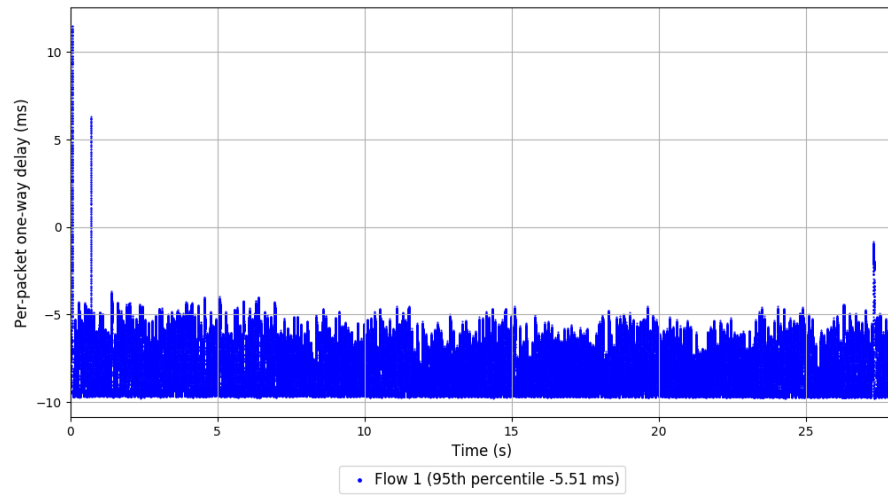
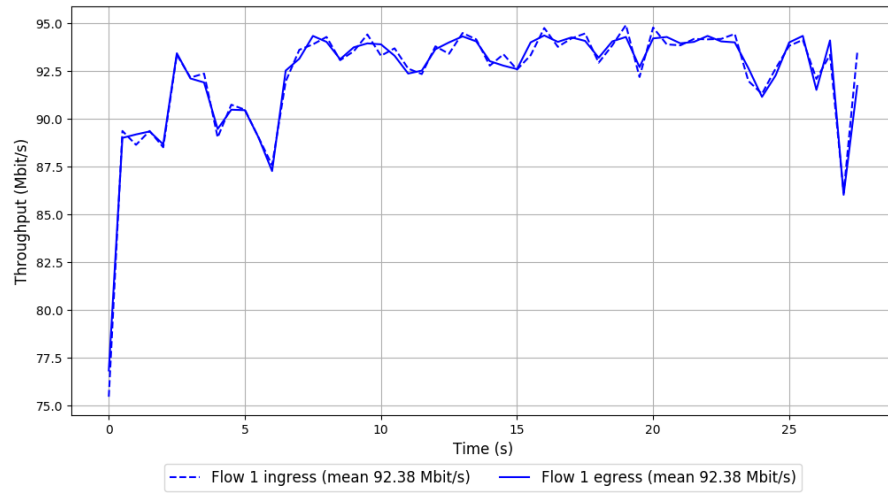


Run 9: Statistics of TaoVA-100x

Start at: 2018-01-09 00:13:47
End at: 2018-01-09 00:14:17
Local clock offset: 13.591 ms
Remote clock offset: -21.319 ms

Below is generated by plot.py at 2018-01-09 01:48:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.38 Mbit/s
95th percentile per-packet one-way delay: -5.507 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 92.38 Mbit/s
95th percentile per-packet one-way delay: -5.507 ms
Loss rate: 0.00%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-01-09 00:31:04

End at: 2018-01-09 00:31:34

Local clock offset: 11.844 ms

Remote clock offset: -20.139 ms

Below is generated by plot.py at 2018-01-09 01:48:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.08 Mbit/s

95th percentile per-packet one-way delay: -3.862 ms

Loss rate: 0.00%

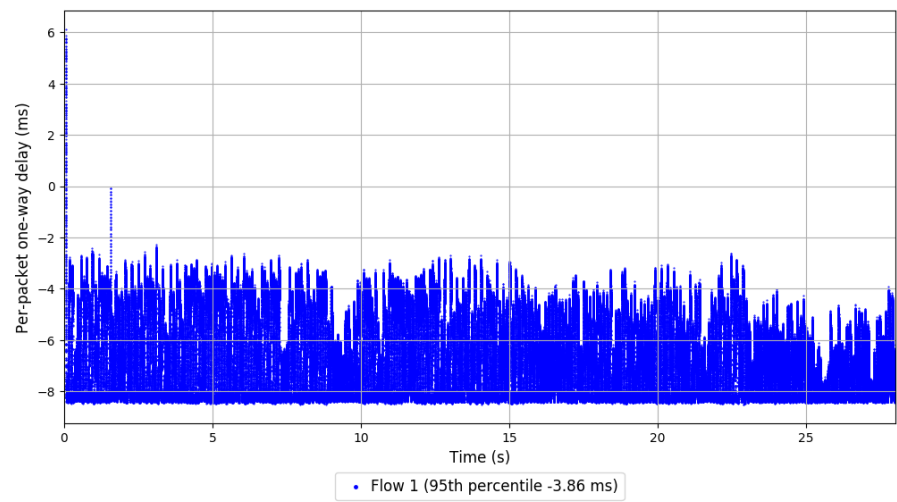
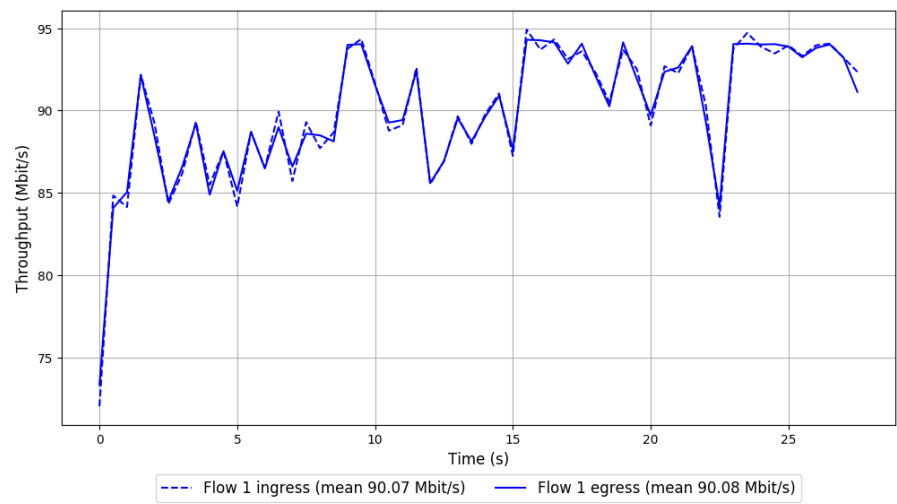
-- Flow 1:

Average throughput: 90.08 Mbit/s

95th percentile per-packet one-way delay: -3.862 ms

Loss rate: 0.00%

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

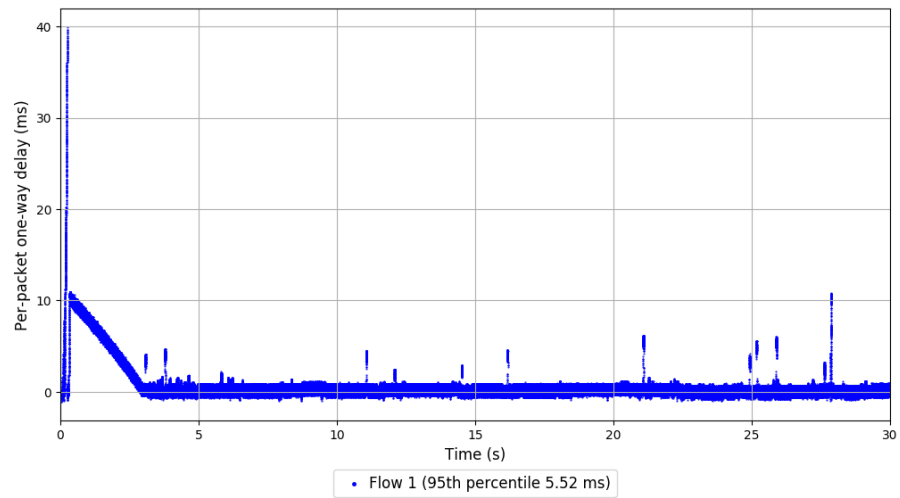
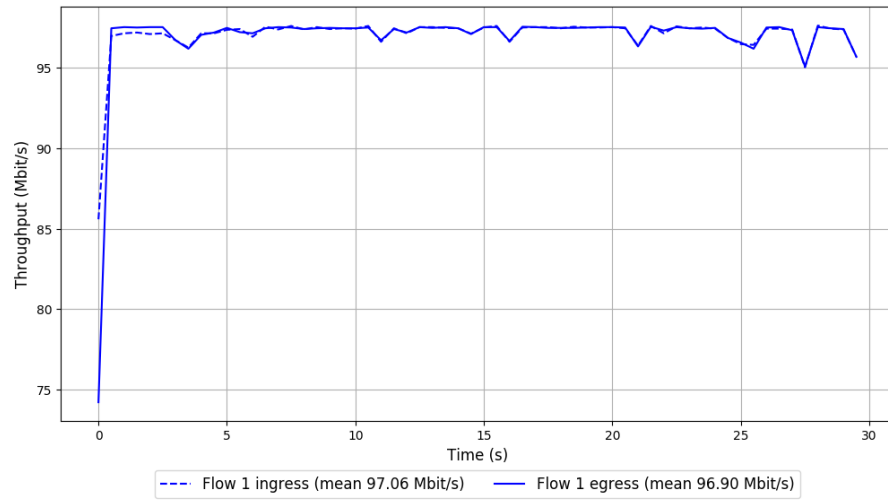


Run 1: Statistics of TCP Vegas

Start at: 2018-01-08 21:49:31
End at: 2018-01-08 21:50:01
Local clock offset: 4.698 ms
Remote clock offset: -18.966 ms

Below is generated by plot.py at 2018-01-09 01:48:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.90 Mbit/s
95th percentile per-packet one-way delay: 5.518 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 96.90 Mbit/s
95th percentile per-packet one-way delay: 5.518 ms
Loss rate: 0.16%

Run 1: Report of TCP Vegas — Data Link

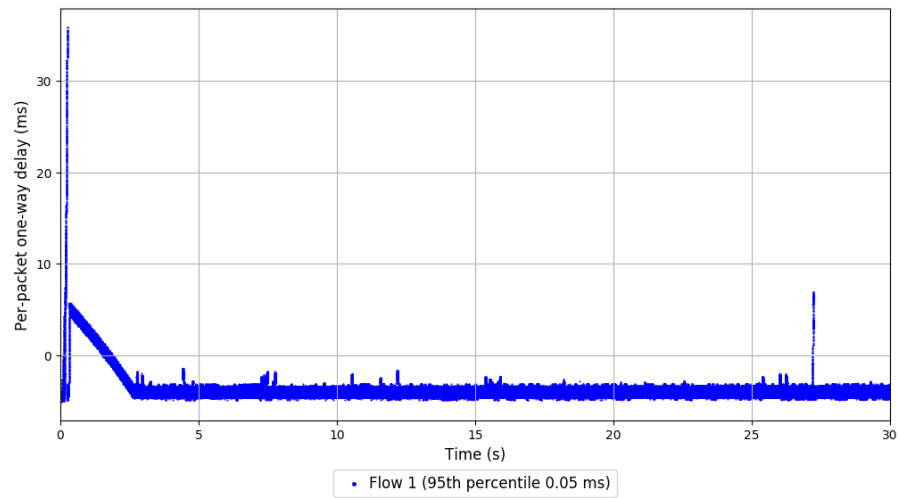
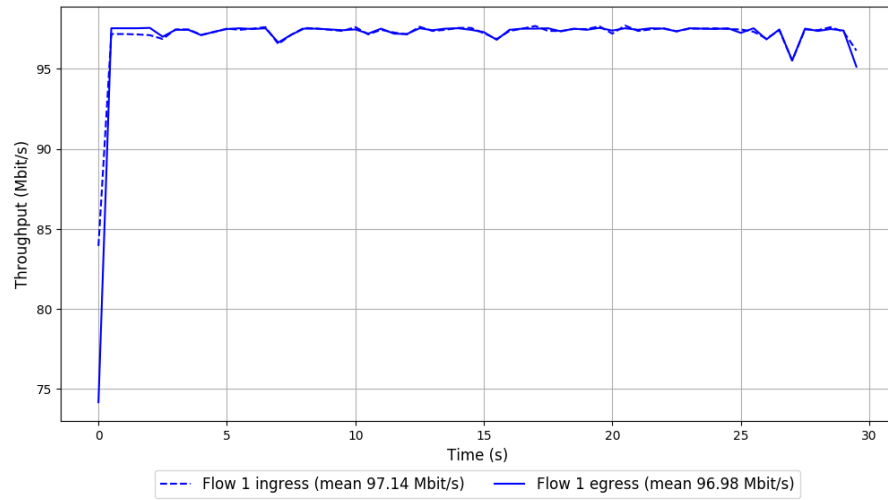


Run 2: Statistics of TCP Vegas

Start at: 2018-01-08 22:07:01
End at: 2018-01-08 22:07:31
Local clock offset: 9.157 ms
Remote clock offset: -20.818 ms

Below is generated by plot.py at 2018-01-09 01:48:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.98 Mbit/s
95th percentile per-packet one-way delay: 0.052 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 96.98 Mbit/s
95th percentile per-packet one-way delay: 0.052 ms
Loss rate: 0.16%

Run 2: Report of TCP Vegas — Data Link

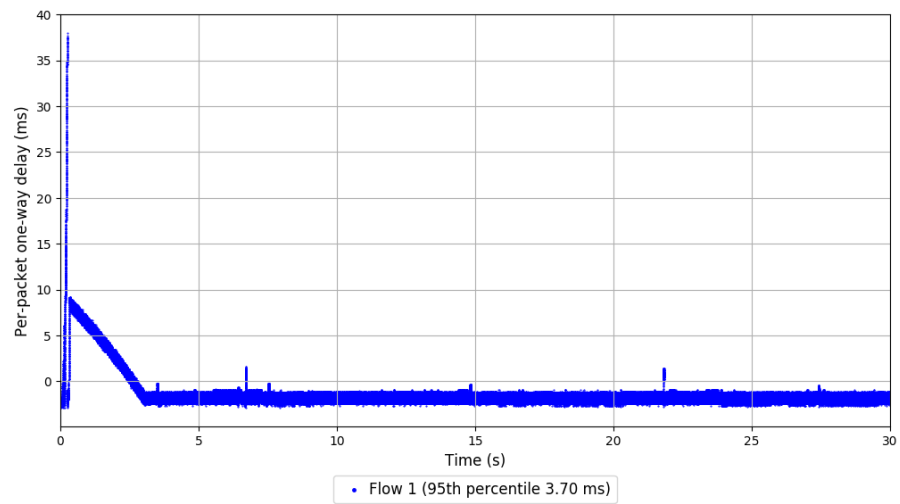
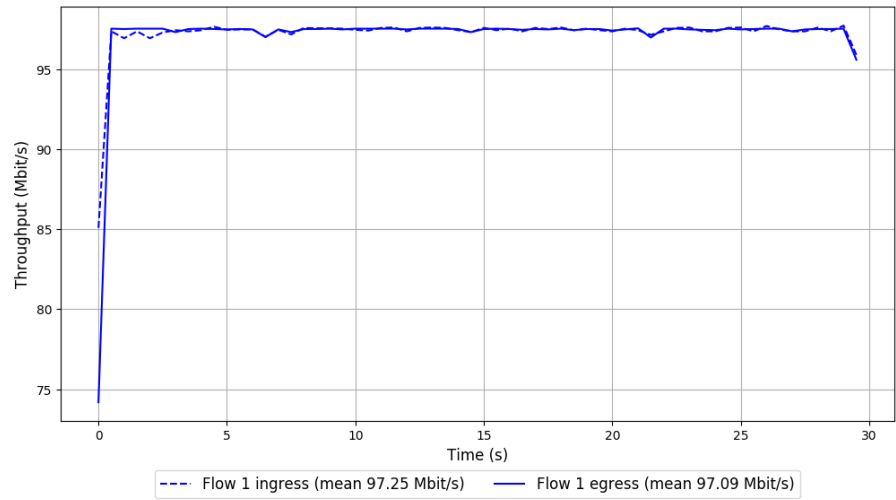


Run 3: Statistics of TCP Vegas

Start at: 2018-01-08 22:24:22
End at: 2018-01-08 22:24:52
Local clock offset: 9.001 ms
Remote clock offset: -20.088 ms

Below is generated by plot.py at 2018-01-09 01:48:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.09 Mbit/s
95th percentile per-packet one-way delay: 3.699 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 97.09 Mbit/s
95th percentile per-packet one-way delay: 3.699 ms
Loss rate: 0.16%

Run 3: Report of TCP Vegas — Data Link

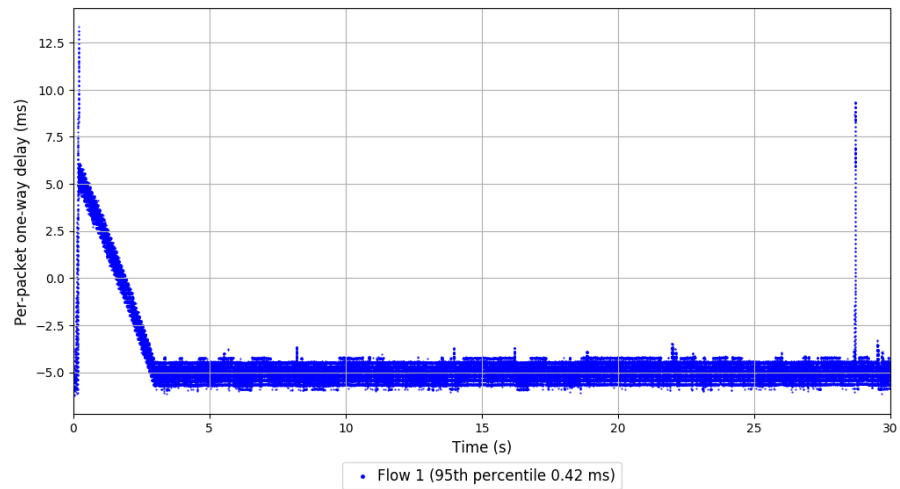
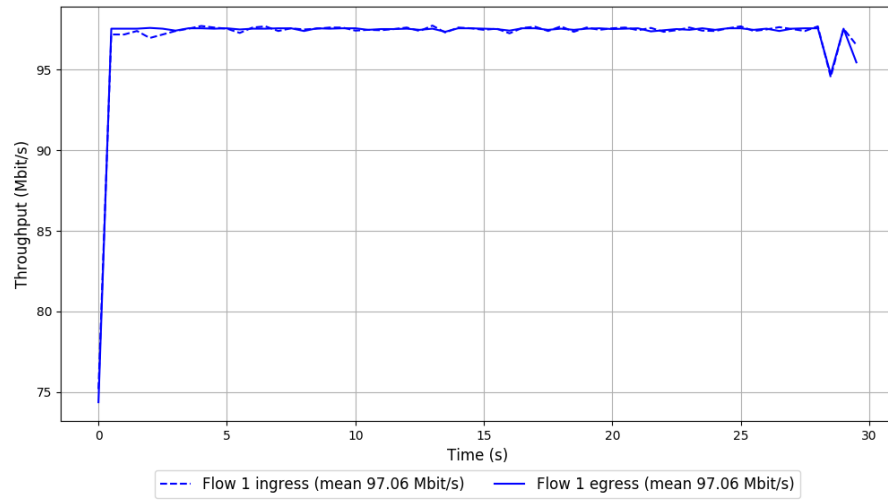


Run 4: Statistics of TCP Vegas

Start at: 2018-01-08 22:41:54
End at: 2018-01-08 22:42:24
Local clock offset: 14.083 ms
Remote clock offset: -19.361 ms

Below is generated by plot.py at 2018-01-09 01:48:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.06 Mbit/s
95th percentile per-packet one-way delay: 0.420 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.06 Mbit/s
95th percentile per-packet one-way delay: 0.420 ms
Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link

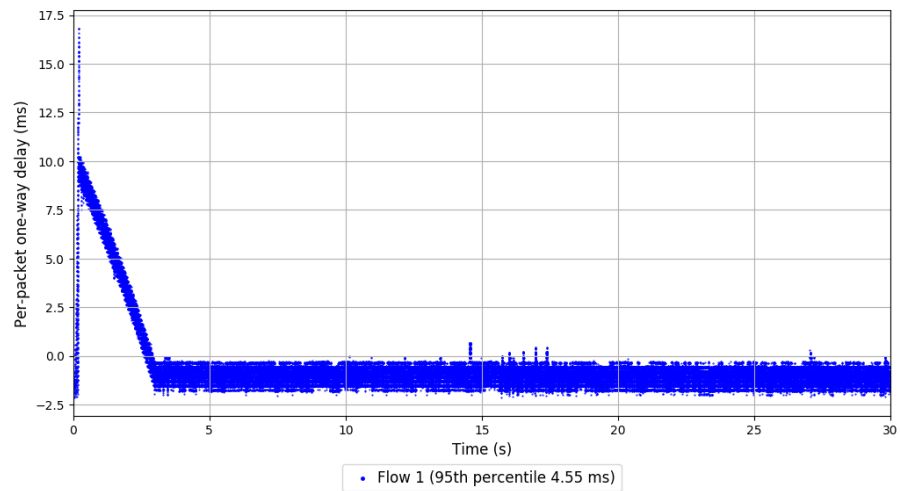
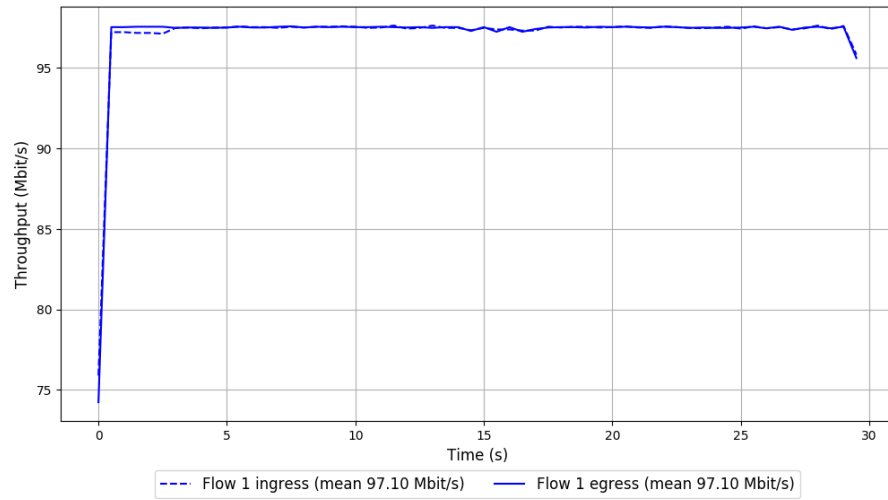


Run 5: Statistics of TCP Vegas

Start at: 2018-01-08 22:59:53
End at: 2018-01-08 23:00:23
Local clock offset: 10.135 ms
Remote clock offset: -20.899 ms

Below is generated by plot.py at 2018-01-09 01:48:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.10 Mbit/s
95th percentile per-packet one-way delay: 4.550 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.10 Mbit/s
95th percentile per-packet one-way delay: 4.550 ms
Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link

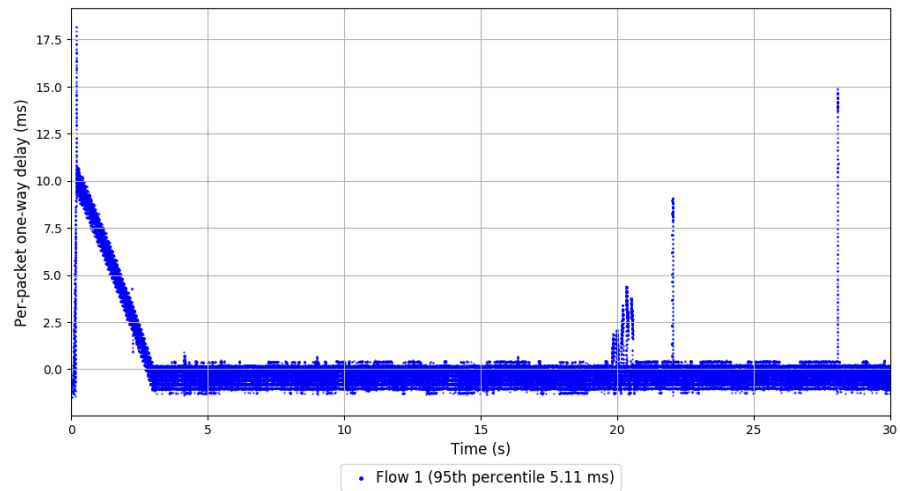
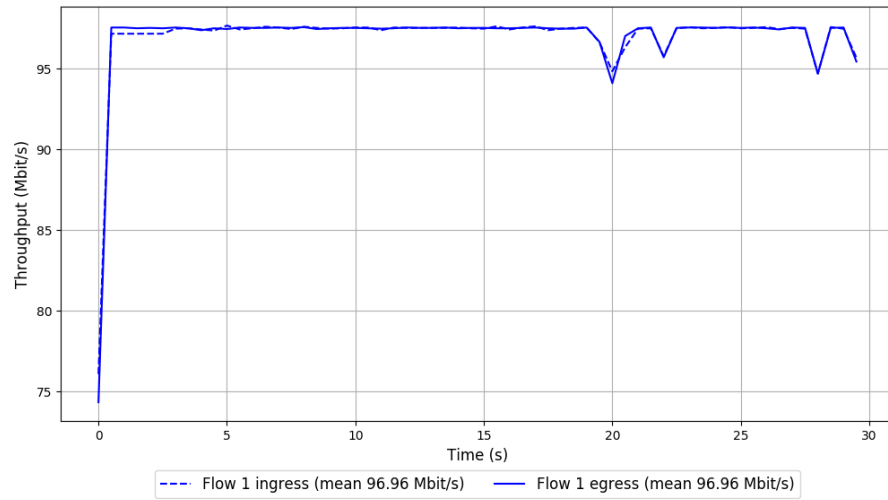


Run 6: Statistics of TCP Vegas

Start at: 2018-01-08 23:17:17
End at: 2018-01-08 23:17:47
Local clock offset: 11.436 ms
Remote clock offset: -19.507 ms

Below is generated by plot.py at 2018-01-09 01:48:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.96 Mbit/s
95th percentile per-packet one-way delay: 5.114 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.96 Mbit/s
95th percentile per-packet one-way delay: 5.114 ms
Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link

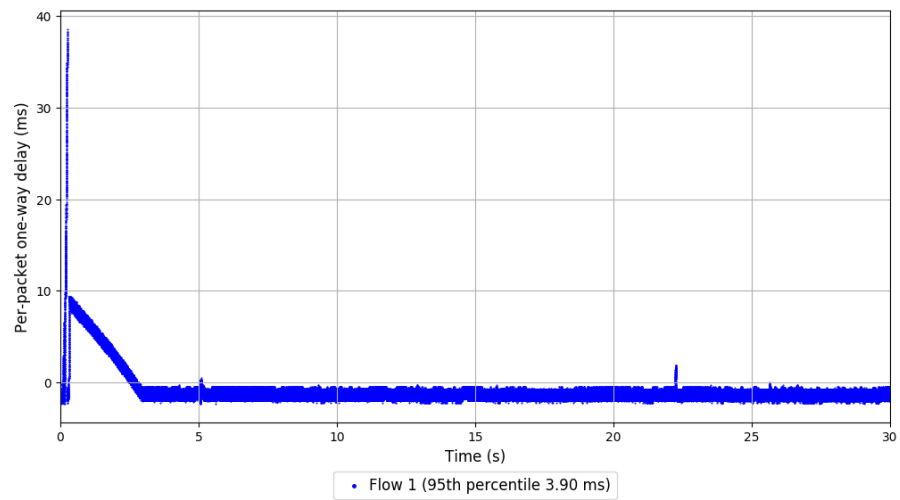
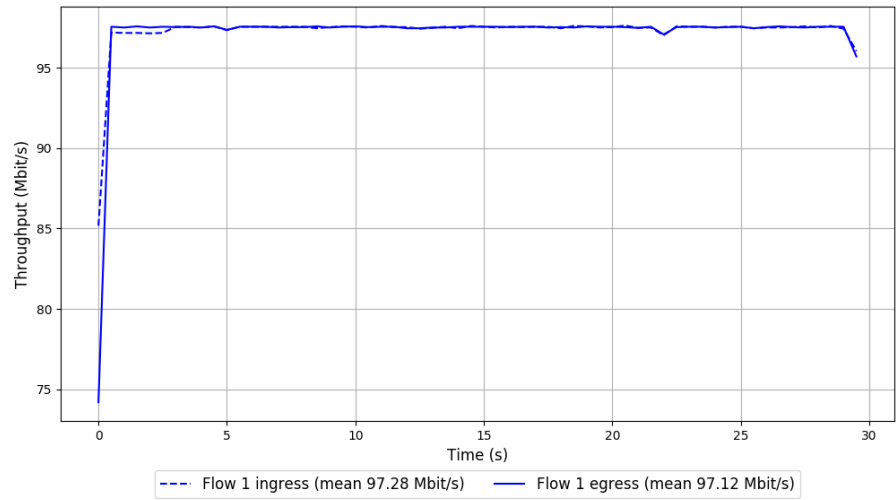


Run 7: Statistics of TCP Vegas

Start at: 2018-01-08 23:34:30
End at: 2018-01-08 23:35:00
Local clock offset: 10.367 ms
Remote clock offset: -20.707 ms

Below is generated by plot.py at 2018-01-09 01:49:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.12 Mbit/s
95th percentile per-packet one-way delay: 3.903 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 97.12 Mbit/s
95th percentile per-packet one-way delay: 3.903 ms
Loss rate: 0.16%

Run 7: Report of TCP Vegas — Data Link

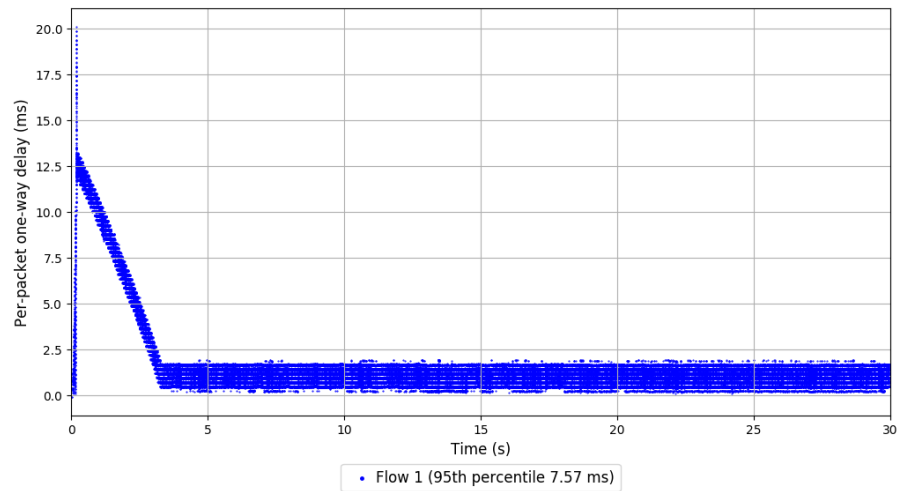
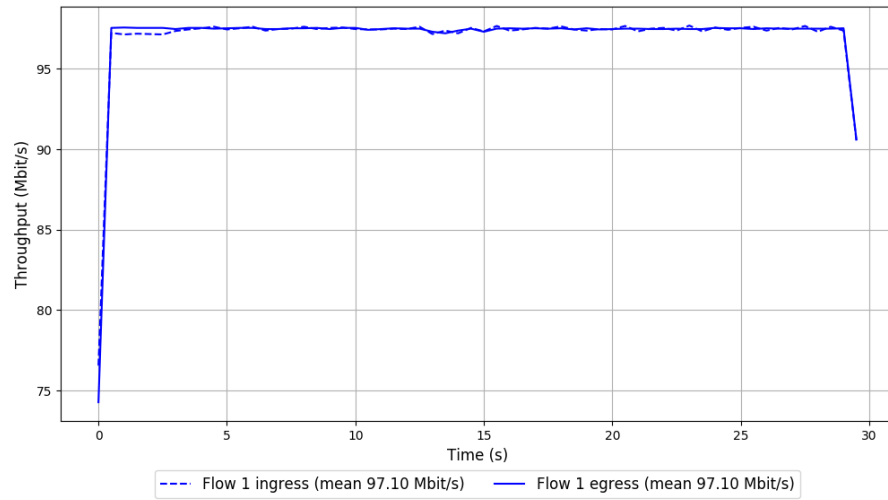


Run 8: Statistics of TCP Vegas

Start at: 2018-01-08 23:51:48
End at: 2018-01-08 23:52:18
Local clock offset: 6.874 ms
Remote clock offset: -20.751 ms

Below is generated by plot.py at 2018-01-09 01:50:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.10 Mbit/s
95th percentile per-packet one-way delay: 7.571 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.10 Mbit/s
95th percentile per-packet one-way delay: 7.571 ms
Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link

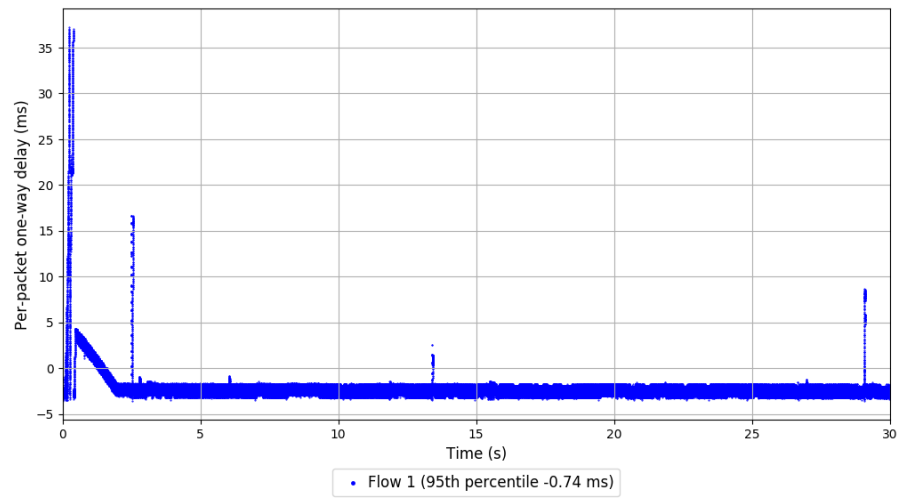
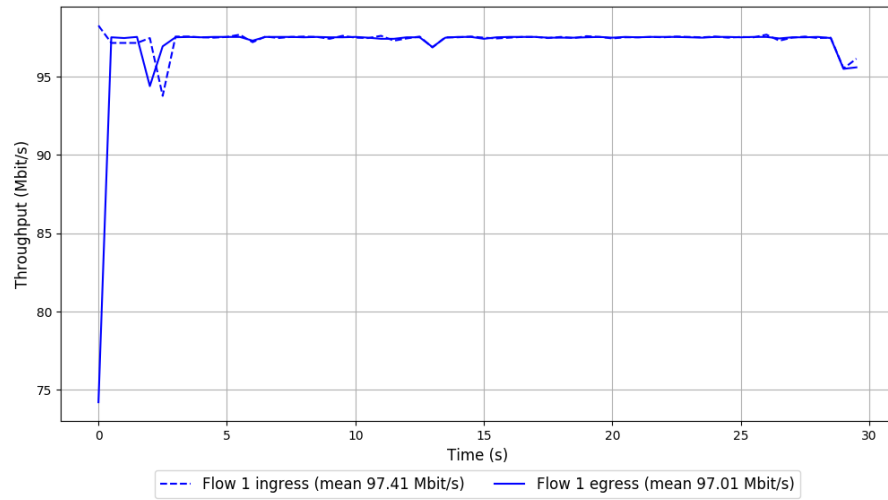


Run 9: Statistics of TCP Vegas

Start at: 2018-01-09 00:09:06
End at: 2018-01-09 00:09:36
Local clock offset: 8.999 ms
Remote clock offset: -20.458 ms

Below is generated by plot.py at 2018-01-09 01:50:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.01 Mbit/s
95th percentile per-packet one-way delay: -0.744 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 97.01 Mbit/s
95th percentile per-packet one-way delay: -0.744 ms
Loss rate: 0.40%

Run 9: Report of TCP Vegas — Data Link

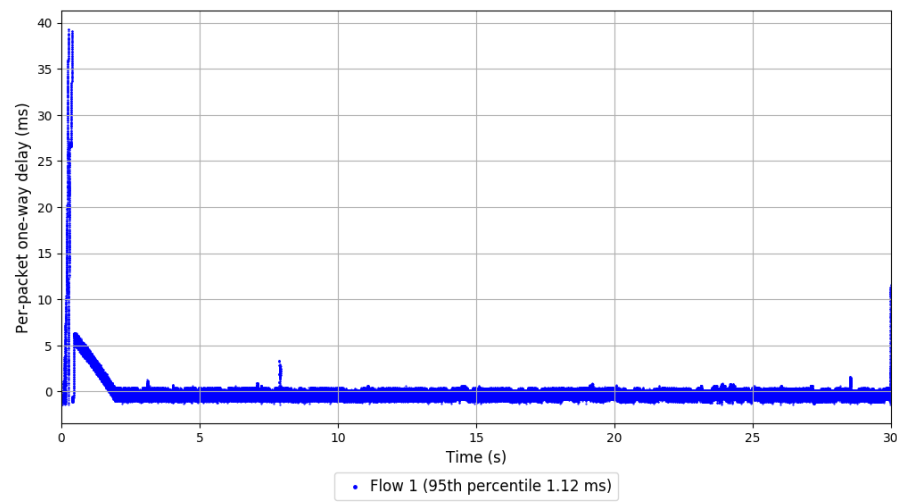
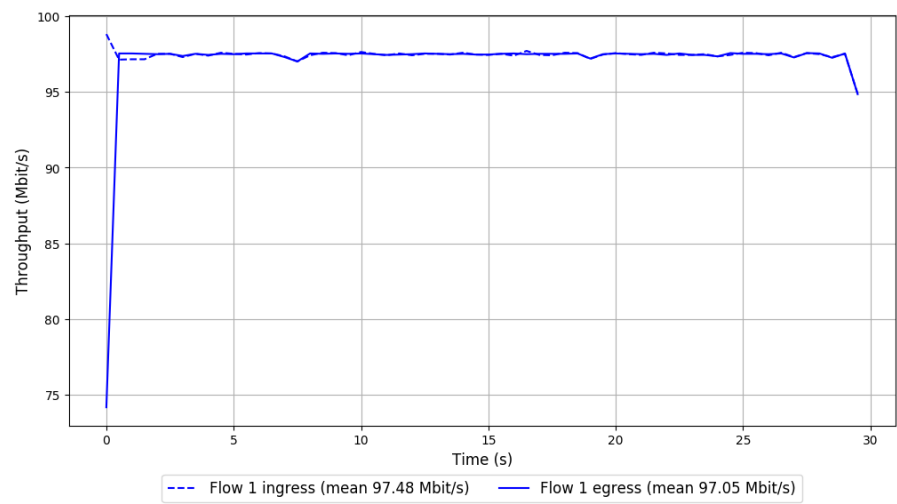


Run 10: Statistics of TCP Vegas

Start at: 2018-01-09 00:26:24
End at: 2018-01-09 00:26:54
Local clock offset: 4.055 ms
Remote clock offset: -21.251 ms

Below is generated by plot.py at 2018-01-09 01:50:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.05 Mbit/s
95th percentile per-packet one-way delay: 1.125 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 97.05 Mbit/s
95th percentile per-packet one-way delay: 1.125 ms
Loss rate: 0.40%

Run 10: Report of TCP Vegas — Data Link

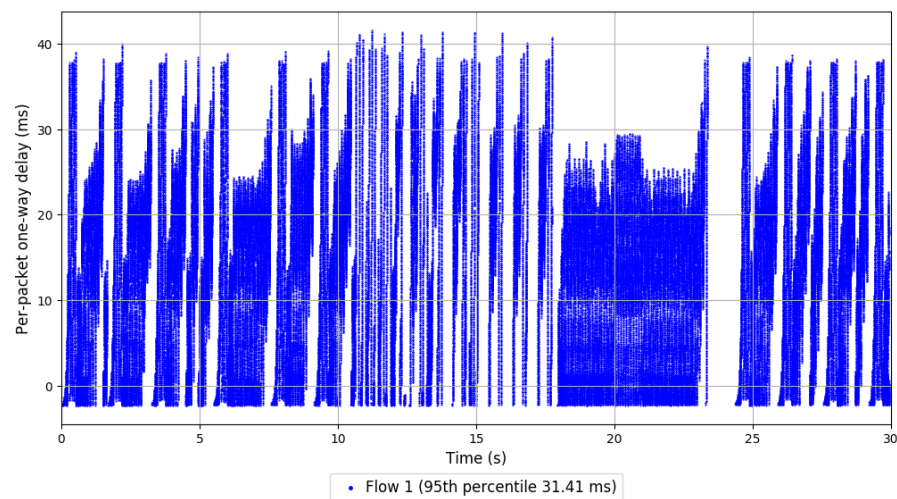
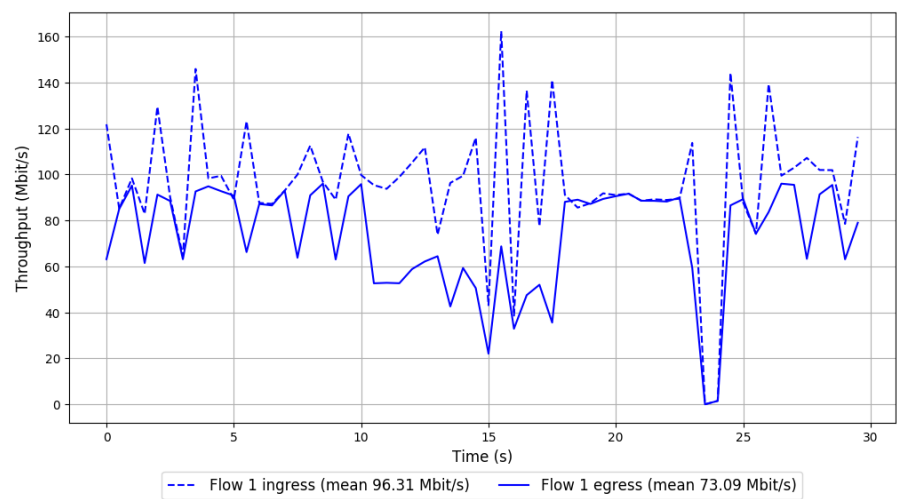


Run 1: Statistics of Verus

Start at: 2018-01-08 21:51:45
End at: 2018-01-08 21:52:15
Local clock offset: 7.597 ms
Remote clock offset: -17.525 ms

Below is generated by plot.py at 2018-01-09 01:50:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.09 Mbit/s
95th percentile per-packet one-way delay: 31.406 ms
Loss rate: 24.10%
-- Flow 1:
Average throughput: 73.09 Mbit/s
95th percentile per-packet one-way delay: 31.406 ms
Loss rate: 24.10%

Run 1: Report of Verus — Data Link

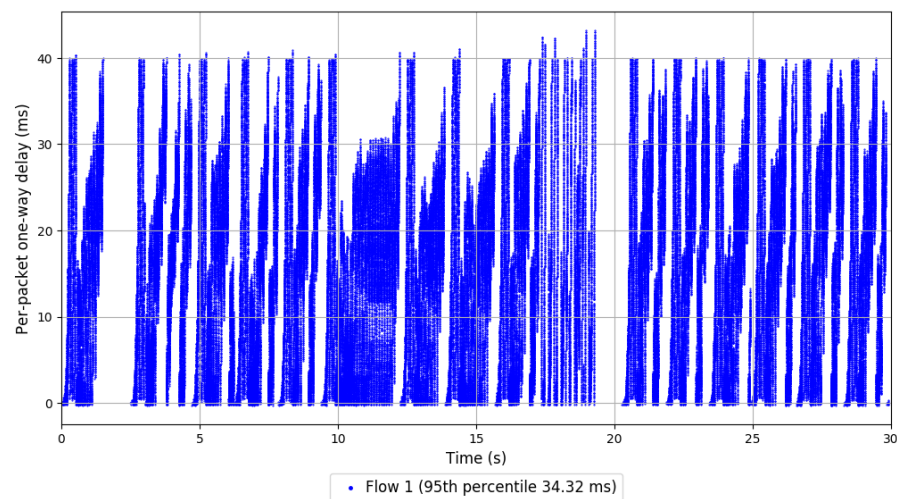
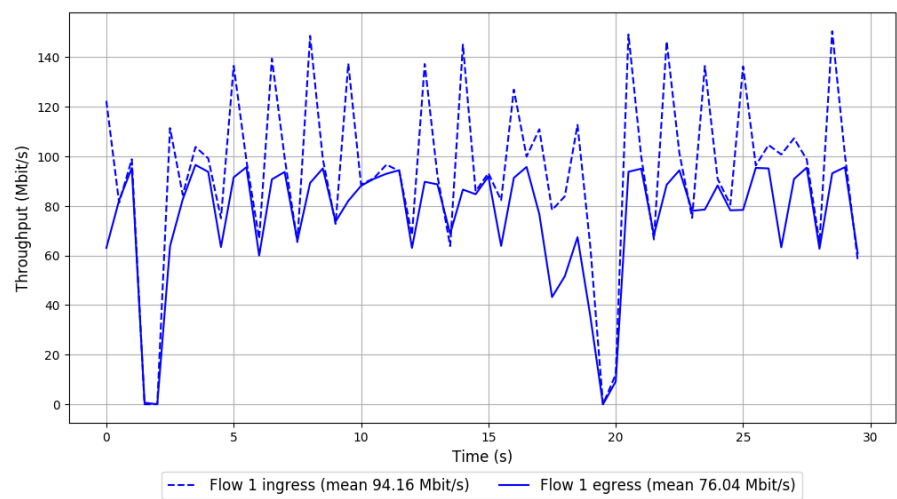


Run 2: Statistics of Verus

Start at: 2018-01-08 22:09:20
End at: 2018-01-08 22:09:50
Local clock offset: 7.408 ms
Remote clock offset: -17.925 ms

Below is generated by plot.py at 2018-01-09 01:50:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.04 Mbit/s
95th percentile per-packet one-way delay: 34.318 ms
Loss rate: 19.25%
-- Flow 1:
Average throughput: 76.04 Mbit/s
95th percentile per-packet one-way delay: 34.318 ms
Loss rate: 19.25%

Run 2: Report of Verus — Data Link

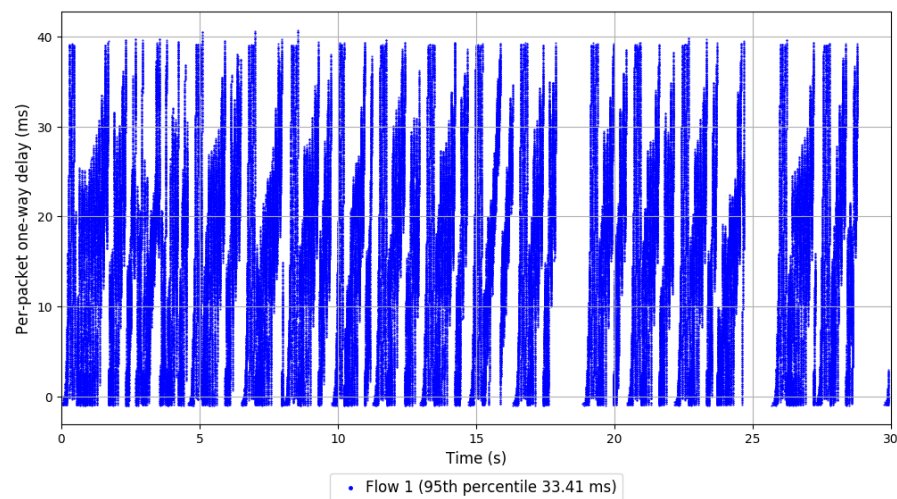
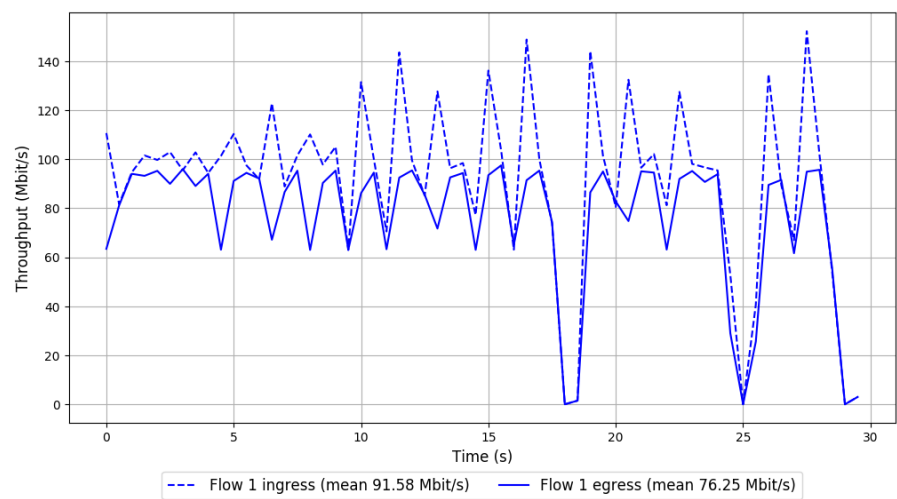


Run 3: Statistics of Verus

Start at: 2018-01-08 22:26:43
End at: 2018-01-08 22:27:13
Local clock offset: 6.667 ms
Remote clock offset: -20.632 ms

Below is generated by plot.py at 2018-01-09 01:50:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.25 Mbit/s
95th percentile per-packet one-way delay: 33.414 ms
Loss rate: 16.74%
-- Flow 1:
Average throughput: 76.25 Mbit/s
95th percentile per-packet one-way delay: 33.414 ms
Loss rate: 16.74%

Run 3: Report of Verus — Data Link

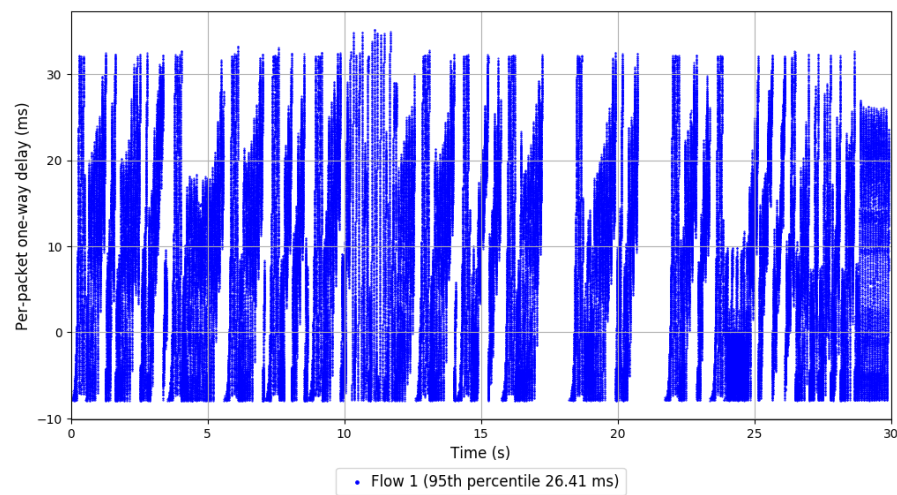
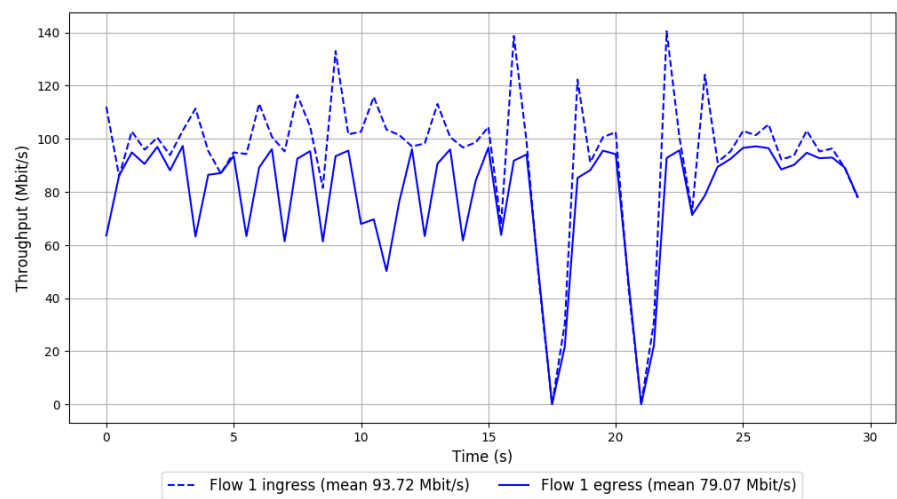


Run 4: Statistics of Verus

Start at: 2018-01-08 22:44:15
End at: 2018-01-08 22:44:45
Local clock offset: 15.608 ms
Remote clock offset: -19.808 ms

Below is generated by plot.py at 2018-01-09 01:51:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.07 Mbit/s
95th percentile per-packet one-way delay: 26.412 ms
Loss rate: 15.58%
-- Flow 1:
Average throughput: 79.07 Mbit/s
95th percentile per-packet one-way delay: 26.412 ms
Loss rate: 15.58%

Run 4: Report of Verus — Data Link

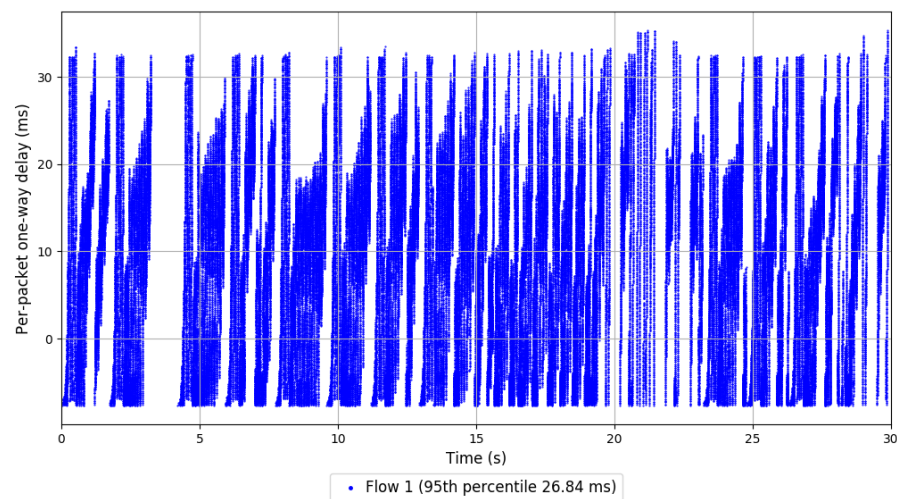
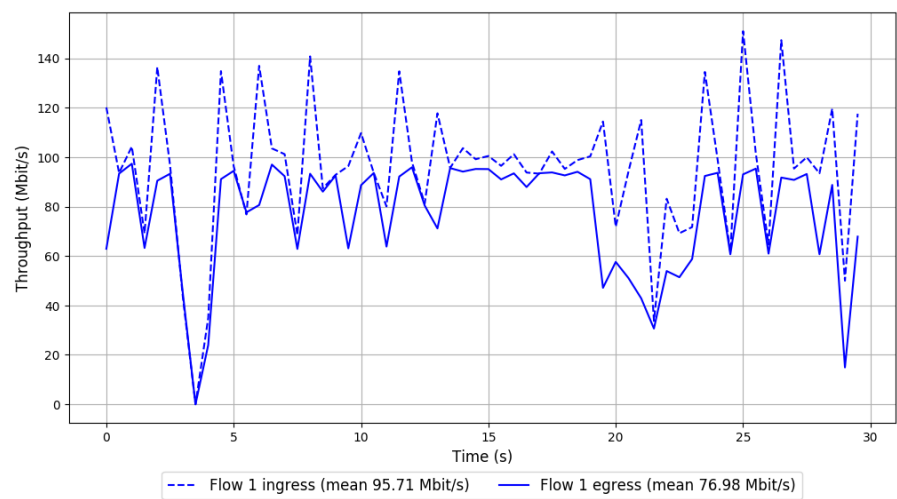


Run 5: Statistics of Verus

Start at: 2018-01-08 23:02:15
End at: 2018-01-08 23:02:45
Local clock offset: 17.031 ms
Remote clock offset: -19.592 ms

Below is generated by plot.py at 2018-01-09 01:52:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.98 Mbit/s
95th percentile per-packet one-way delay: 26.837 ms
Loss rate: 19.54%
-- Flow 1:
Average throughput: 76.98 Mbit/s
95th percentile per-packet one-way delay: 26.837 ms
Loss rate: 19.54%

Run 5: Report of Verus — Data Link

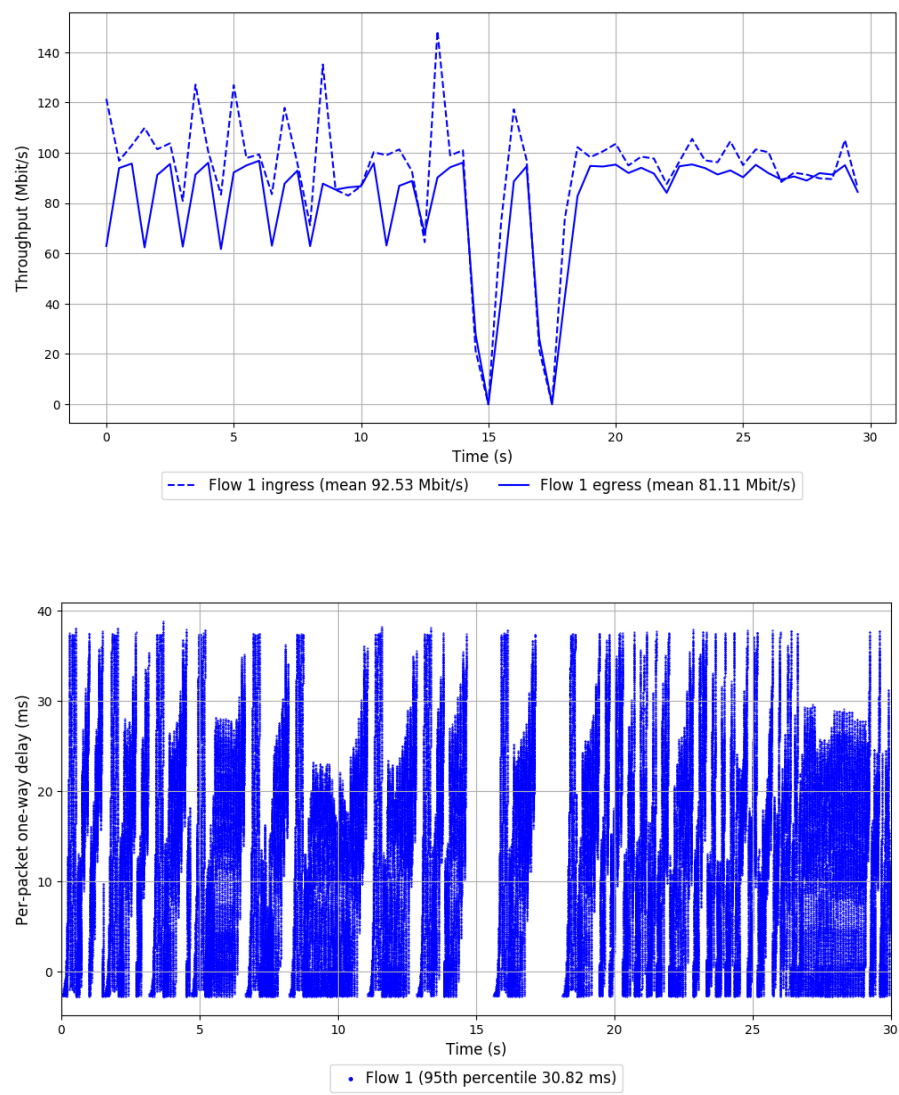


Run 6: Statistics of Verus

Start at: 2018-01-08 23:19:34
End at: 2018-01-08 23:20:04
Local clock offset: 11.675 ms
Remote clock offset: -20.658 ms

Below is generated by plot.py at 2018-01-09 01:52:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 81.11 Mbit/s
95th percentile per-packet one-way delay: 30.820 ms
Loss rate: 12.30%
-- Flow 1:
Average throughput: 81.11 Mbit/s
95th percentile per-packet one-way delay: 30.820 ms
Loss rate: 12.30%

Run 6: Report of Verus — Data Link

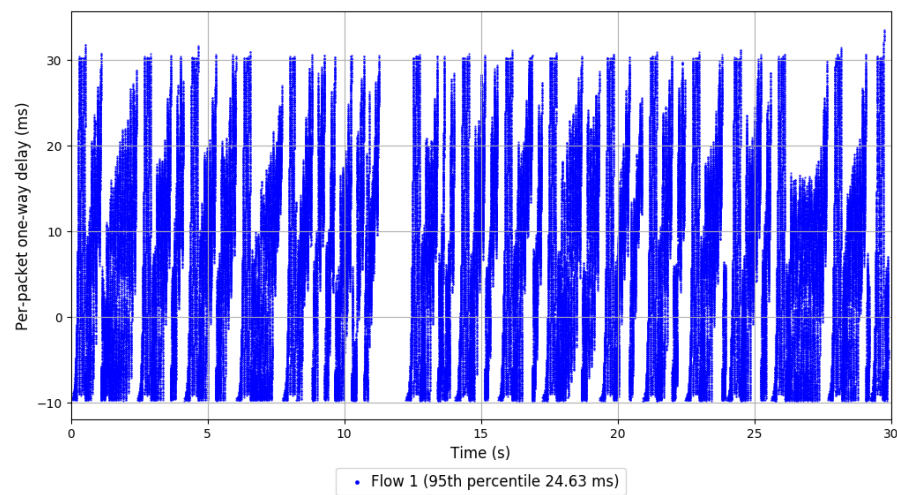
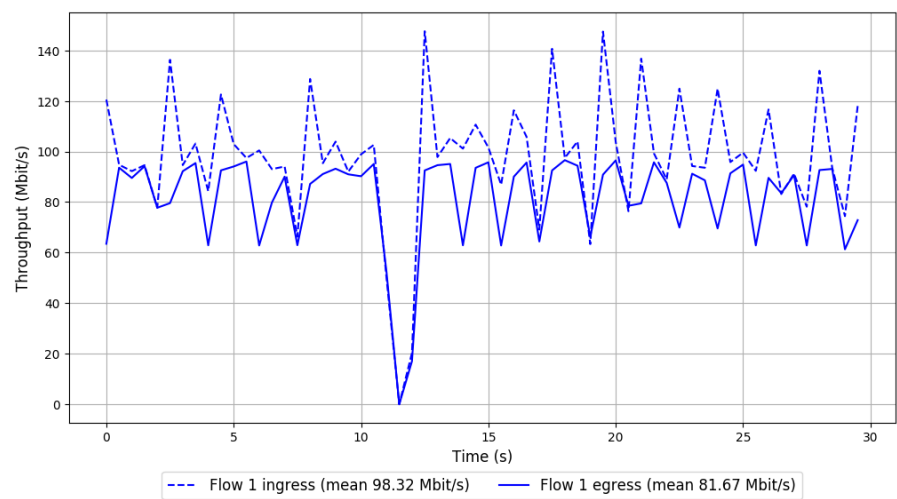


Run 7: Statistics of Verus

Start at: 2018-01-08 23:36:49
End at: 2018-01-08 23:37:19
Local clock offset: 11.454 ms
Remote clock offset: -26.768 ms

Below is generated by plot.py at 2018-01-09 01:52:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 81.67 Mbit/s
95th percentile per-packet one-way delay: 24.626 ms
Loss rate: 16.92%
-- Flow 1:
Average throughput: 81.67 Mbit/s
95th percentile per-packet one-way delay: 24.626 ms
Loss rate: 16.92%

Run 7: Report of Verus — Data Link

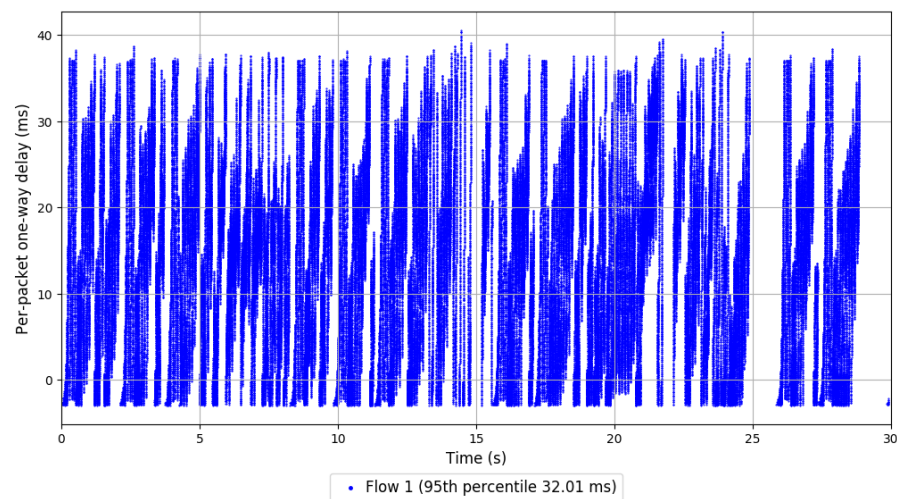
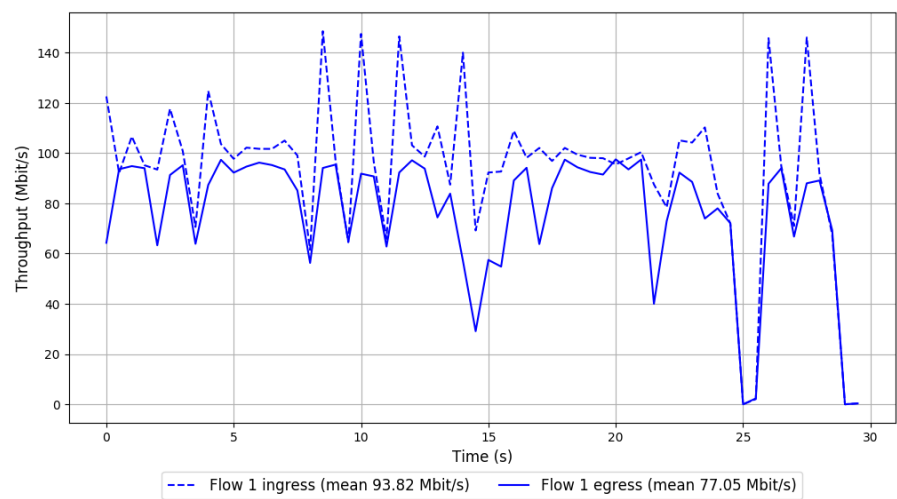


Run 8: Statistics of Verus

Start at: 2018-01-08 23:54:07
End at: 2018-01-08 23:54:37
Local clock offset: 9.276 ms
Remote clock offset: -21.32 ms

Below is generated by plot.py at 2018-01-09 01:52:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.05 Mbit/s
95th percentile per-packet one-way delay: 32.010 ms
Loss rate: 17.88%
-- Flow 1:
Average throughput: 77.05 Mbit/s
95th percentile per-packet one-way delay: 32.010 ms
Loss rate: 17.88%

Run 8: Report of Verus — Data Link

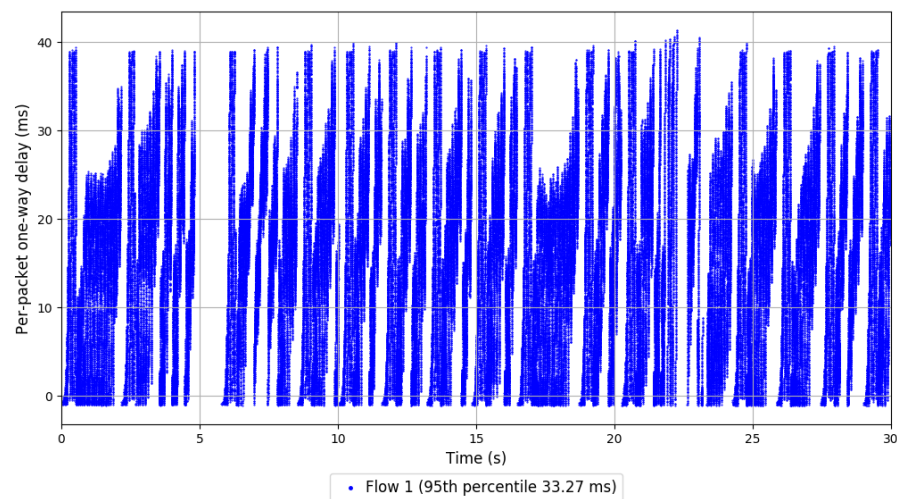
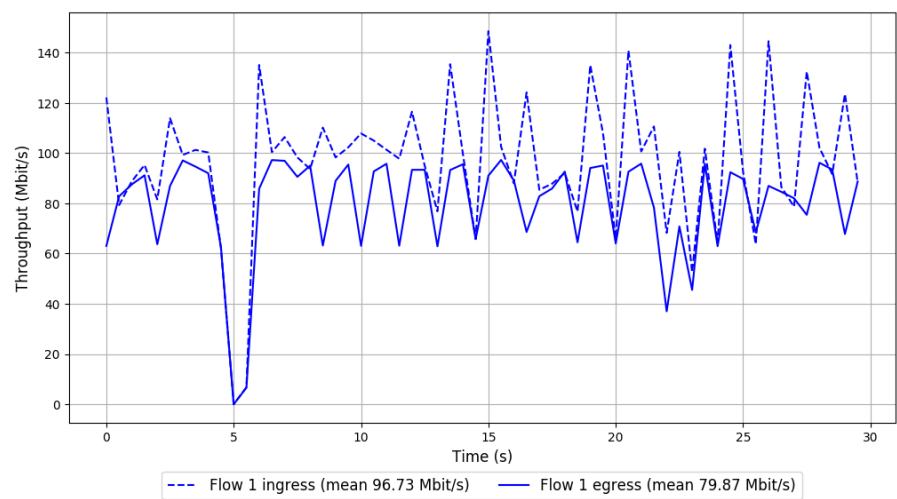


Run 9: Statistics of Verus

Start at: 2018-01-09 00:11:23
End at: 2018-01-09 00:11:53
Local clock offset: 6.768 ms
Remote clock offset: -19.81 ms

Below is generated by plot.py at 2018-01-09 01:52:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.87 Mbit/s
95th percentile per-packet one-way delay: 33.275 ms
Loss rate: 17.38%
-- Flow 1:
Average throughput: 79.87 Mbit/s
95th percentile per-packet one-way delay: 33.275 ms
Loss rate: 17.38%

Run 9: Report of Verus — Data Link

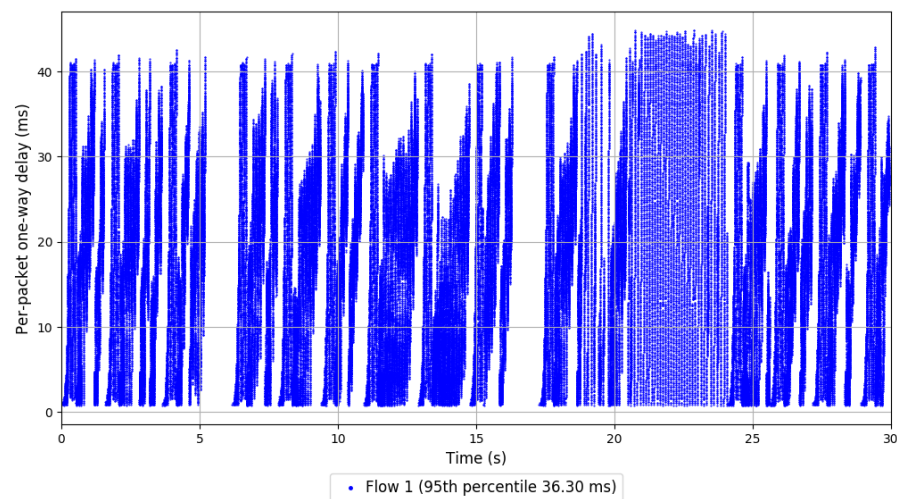
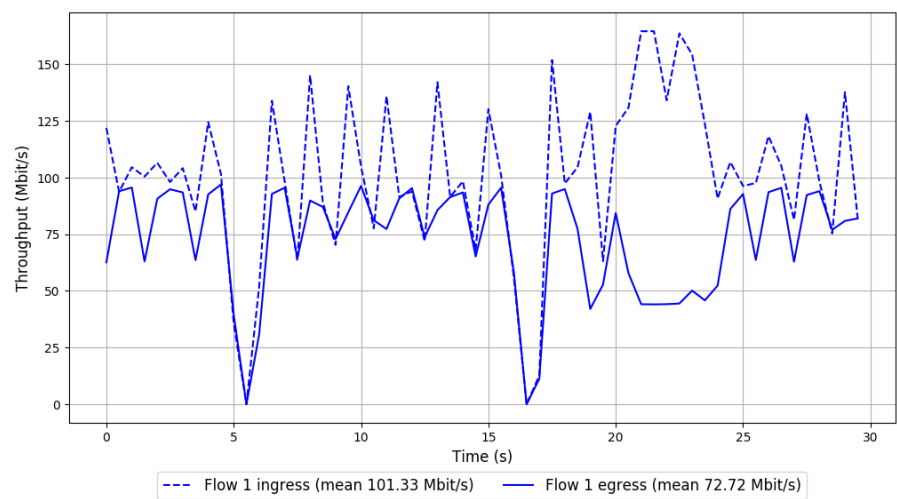


Run 10: Statistics of Verus

Start at: 2018-01-09 00:28:43
End at: 2018-01-09 00:29:13
Local clock offset: 3.284 ms
Remote clock offset: -19.629 ms

Below is generated by plot.py at 2018-01-09 01:52:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.72 Mbit/s
95th percentile per-packet one-way delay: 36.303 ms
Loss rate: 28.18%
-- Flow 1:
Average throughput: 72.72 Mbit/s
95th percentile per-packet one-way delay: 36.303 ms
Loss rate: 28.18%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-08 22:02:24

End at: 2018-01-08 22:02:54

Local clock offset: 8.254 ms

Remote clock offset: -18.01 ms

Below is generated by plot.py at 2018-01-09 01:55:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.71 Mbit/s

95th percentile per-packet one-way delay: 1.348 ms

Loss rate: 0.00%

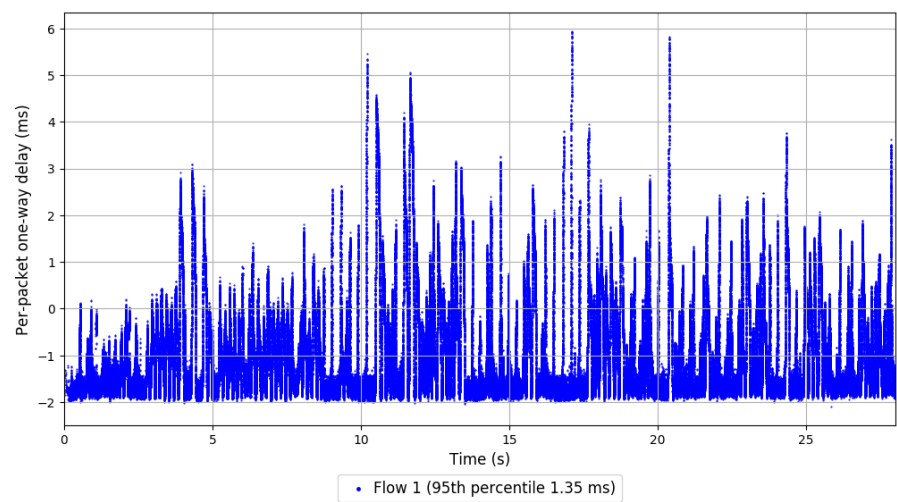
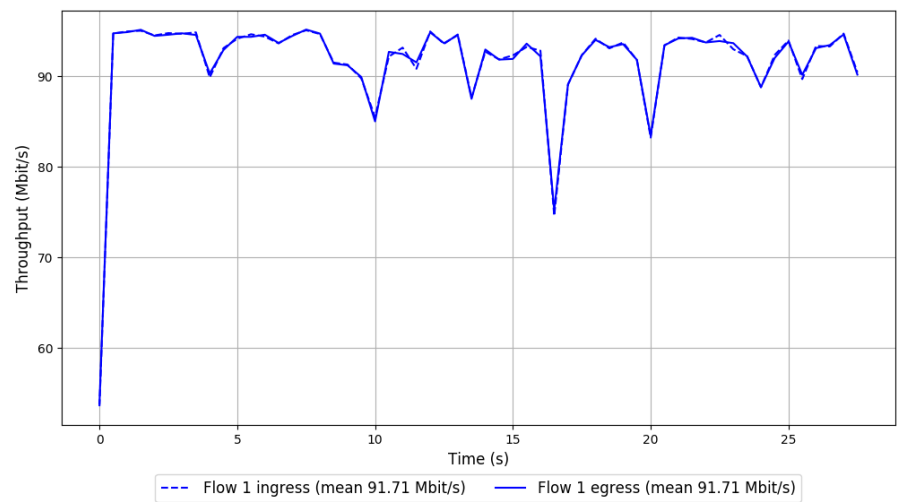
-- Flow 1:

Average throughput: 91.71 Mbit/s

95th percentile per-packet one-way delay: 1.348 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link

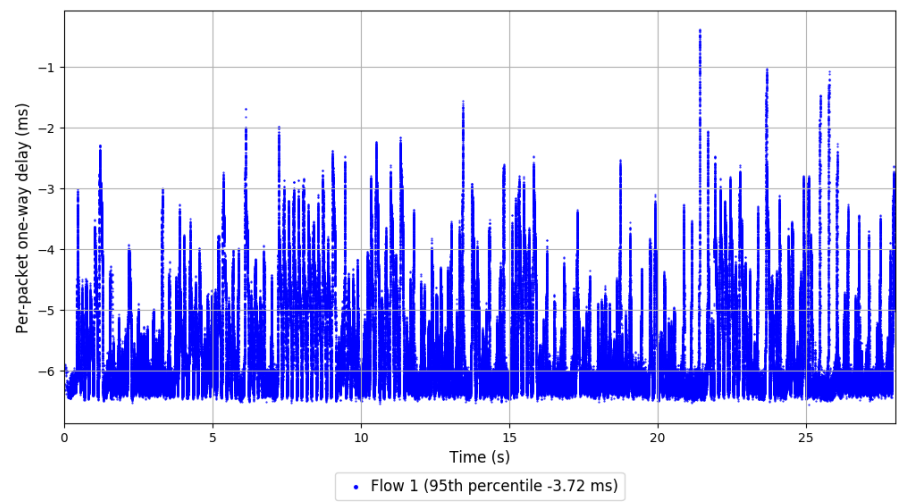
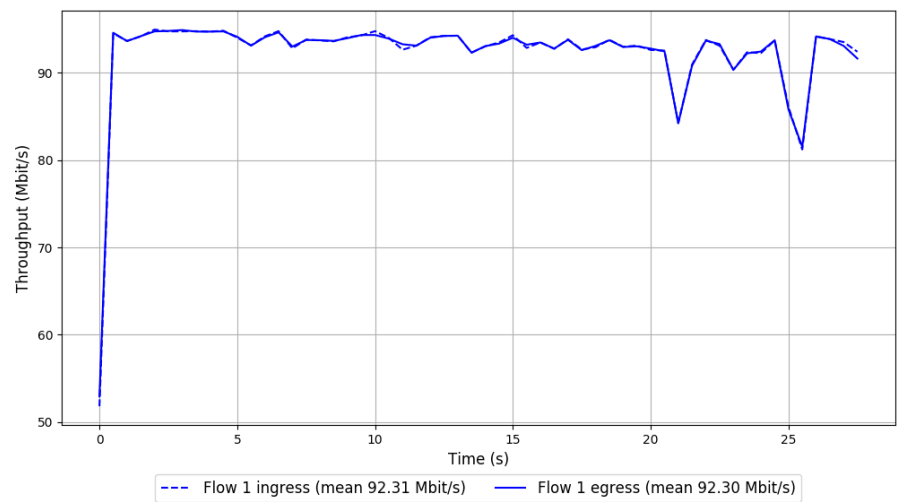


Run 2: Statistics of Copa

Start at: 2018-01-08 22:19:45
End at: 2018-01-08 22:20:15
Local clock offset: 12.554 ms
Remote clock offset: -19.901 ms

Below is generated by plot.py at 2018-01-09 01:55:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.30 Mbit/s
95th percentile per-packet one-way delay: -3.721 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 92.30 Mbit/s
95th percentile per-packet one-way delay: -3.721 ms
Loss rate: 0.00%

Run 2: Report of Copa — Data Link

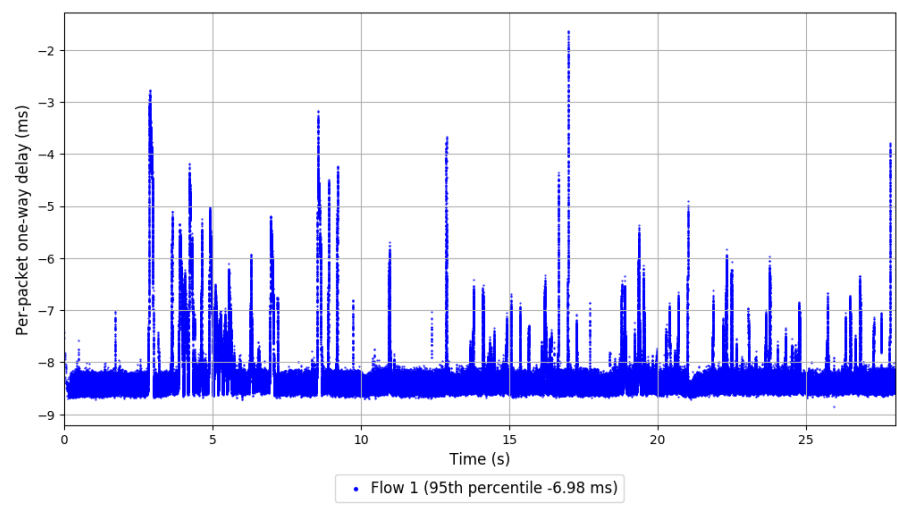
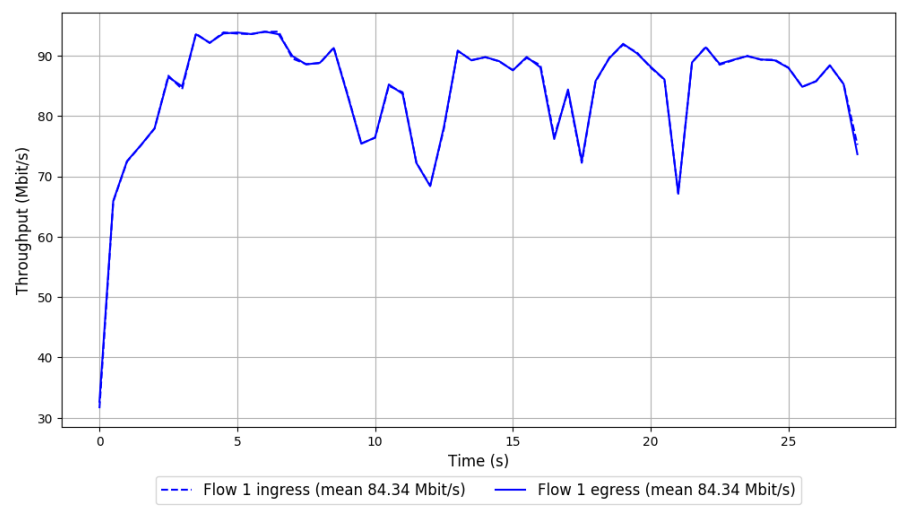


Run 3: Statistics of Copa

Start at: 2018-01-08 22:37:14
End at: 2018-01-08 22:37:44
Local clock offset: 15.262 ms
Remote clock offset: -20.461 ms

Below is generated by plot.py at 2018-01-09 01:56:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.34 Mbit/s
95th percentile per-packet one-way delay: -6.978 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.34 Mbit/s
95th percentile per-packet one-way delay: -6.978 ms
Loss rate: 0.00%

Run 3: Report of Copa — Data Link

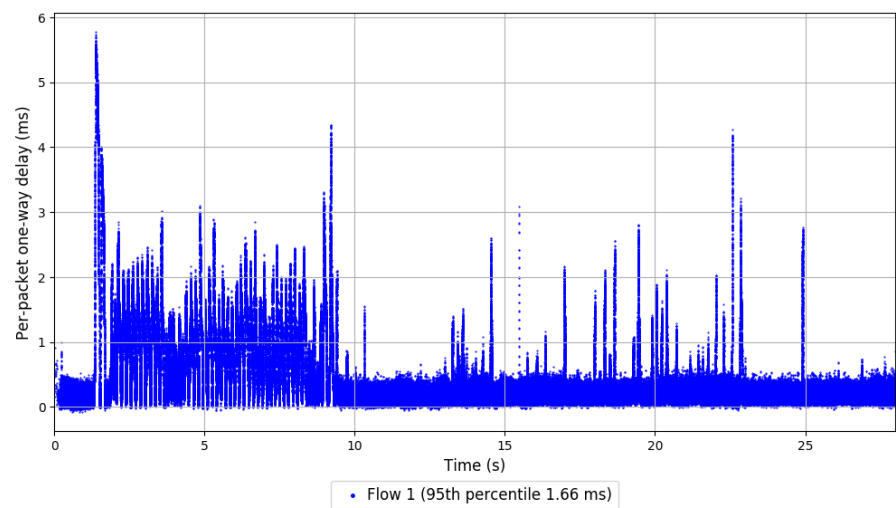
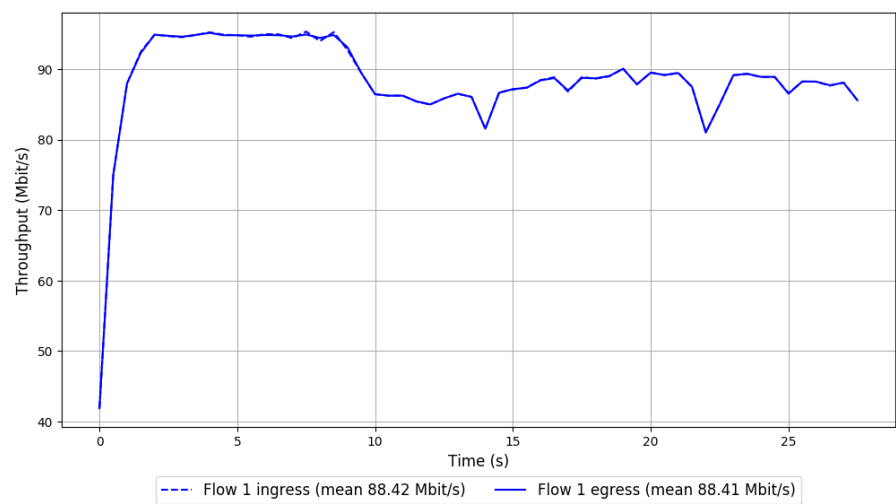


Run 4: Statistics of Copa

Start at: 2018-01-08 22:55:17
End at: 2018-01-08 22:55:47
Local clock offset: 8.642 ms
Remote clock offset: -20.079 ms

Below is generated by plot.py at 2018-01-09 01:56:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.41 Mbit/s
95th percentile per-packet one-way delay: 1.662 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 88.41 Mbit/s
95th percentile per-packet one-way delay: 1.662 ms
Loss rate: 0.00%

Run 4: Report of Copa — Data Link

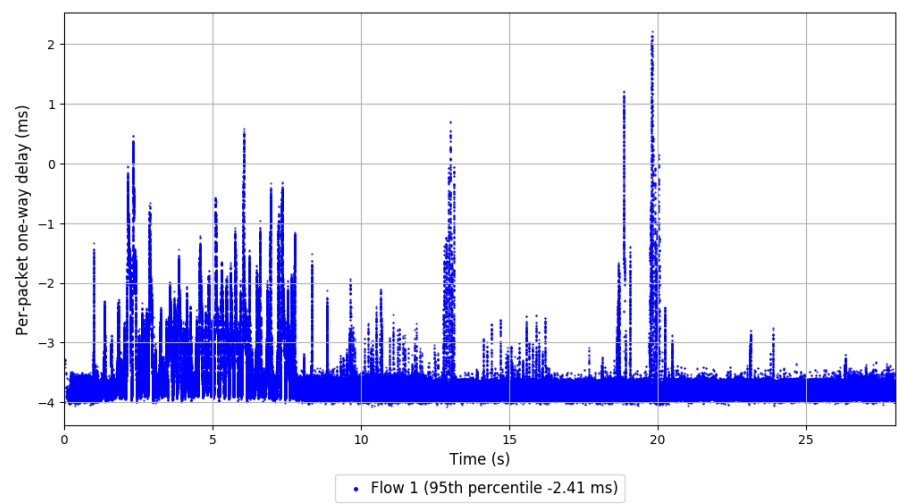
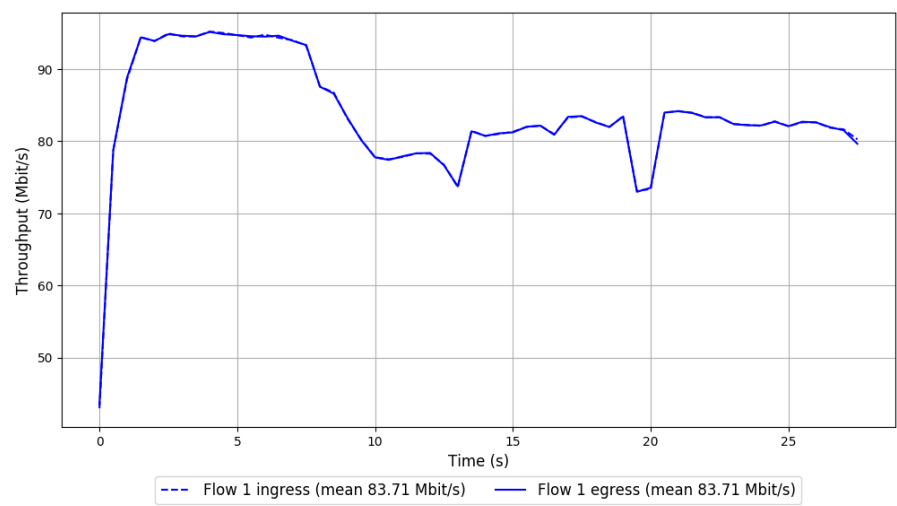


Run 5: Statistics of Copa

Start at: 2018-01-08 23:12:43
End at: 2018-01-08 23:13:13
Local clock offset: 14.475 ms
Remote clock offset: -18.916 ms

Below is generated by plot.py at 2018-01-09 01:56:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 83.71 Mbit/s
95th percentile per-packet one-way delay: -2.409 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 83.71 Mbit/s
95th percentile per-packet one-way delay: -2.409 ms
Loss rate: 0.00%

Run 5: Report of Copa — Data Link

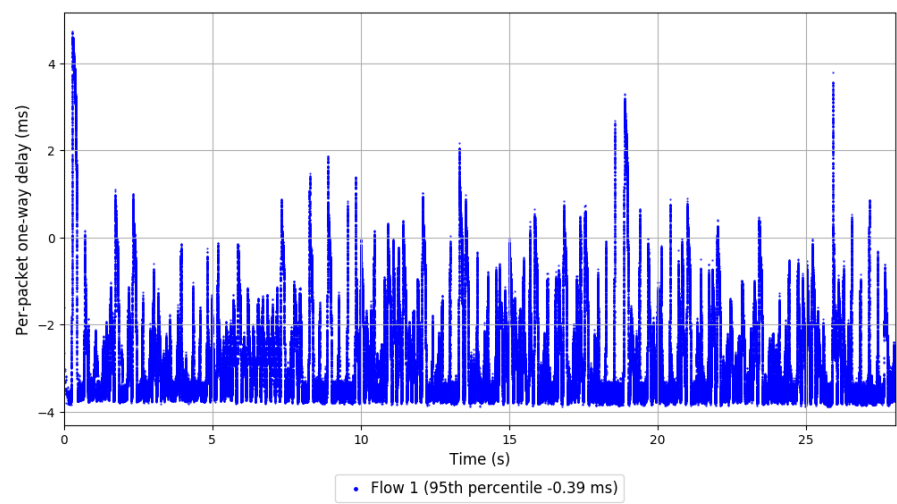
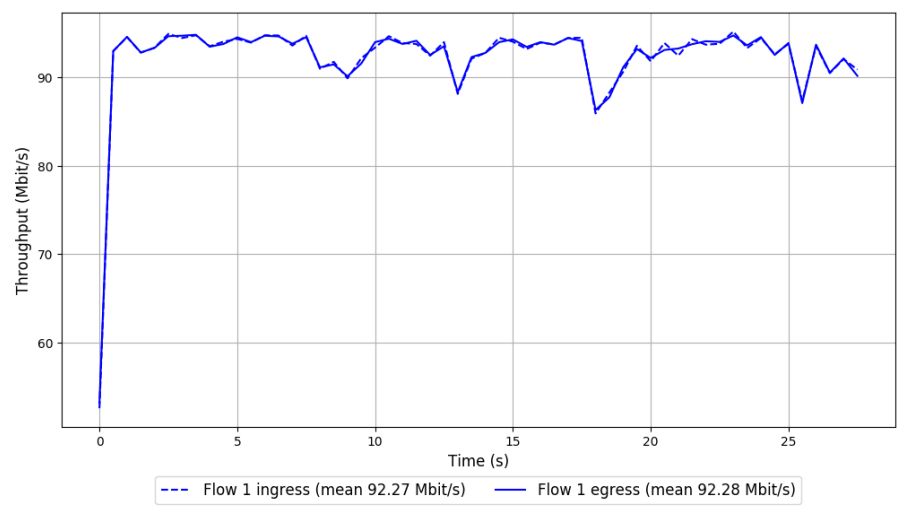


Run 6: Statistics of Copa

Start at: 2018-01-08 23:29:55
End at: 2018-01-08 23:30:25
Local clock offset: 12.054 ms
Remote clock offset: -20.999 ms

Below is generated by plot.py at 2018-01-09 01:56:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.28 Mbit/s
95th percentile per-packet one-way delay: -0.385 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 92.28 Mbit/s
95th percentile per-packet one-way delay: -0.385 ms
Loss rate: 0.00%

Run 6: Report of Copa — Data Link

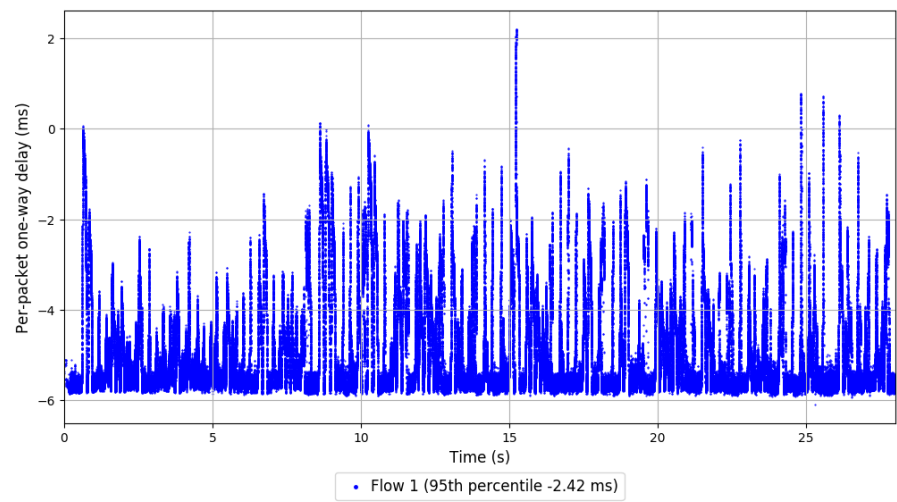
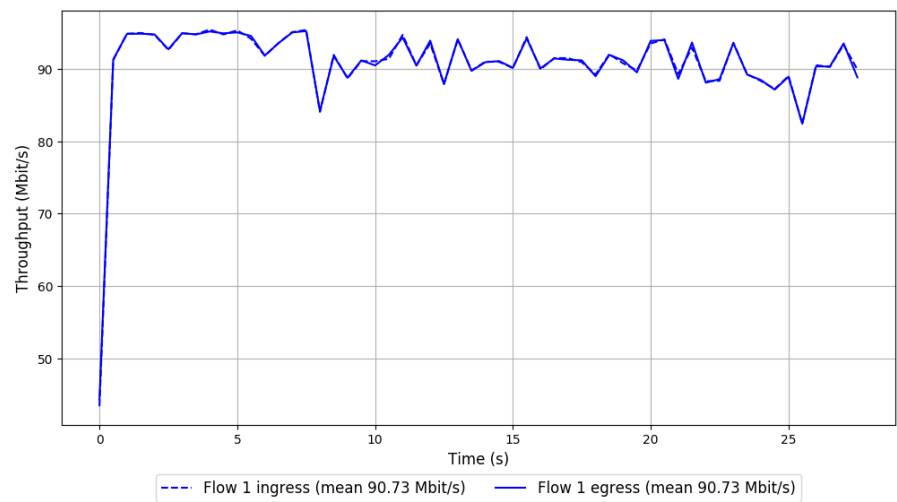


Run 7: Statistics of Copa

Start at: 2018-01-08 23:47:11
End at: 2018-01-08 23:47:41
Local clock offset: 12.389 ms
Remote clock offset: -21.244 ms

Below is generated by plot.py at 2018-01-09 01:56:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.73 Mbit/s
95th percentile per-packet one-way delay: -2.416 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.73 Mbit/s
95th percentile per-packet one-way delay: -2.416 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link

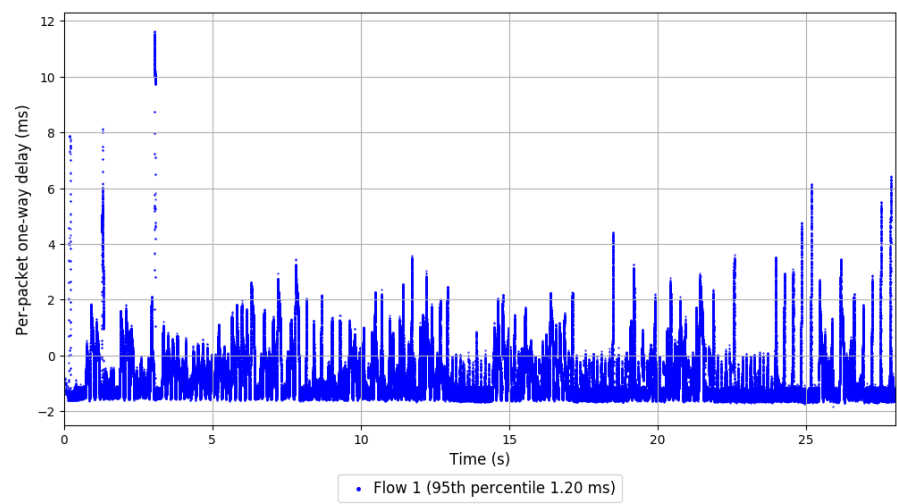
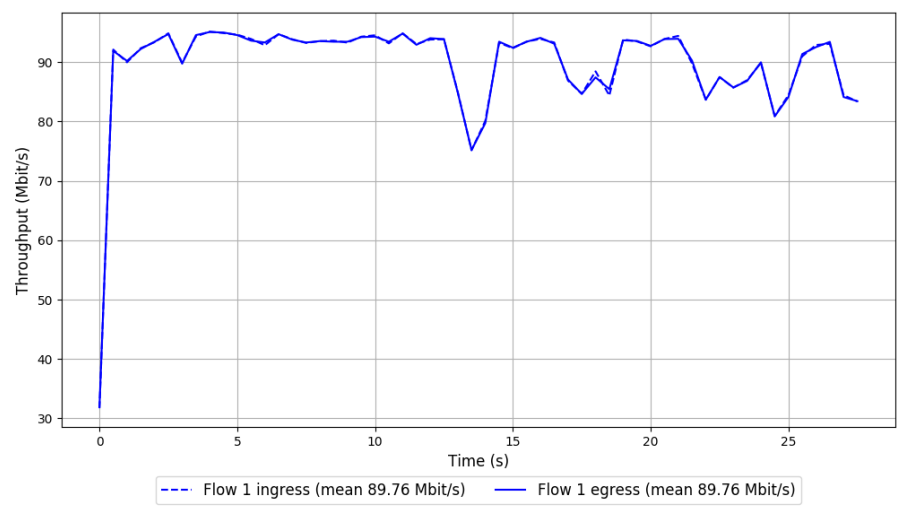


Run 8: Statistics of Copa

Start at: 2018-01-09 00:04:30
End at: 2018-01-09 00:05:00
Local clock offset: 6.465 ms
Remote clock offset: -21.854 ms

Below is generated by plot.py at 2018-01-09 01:56:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.76 Mbit/s
95th percentile per-packet one-way delay: 1.204 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.76 Mbit/s
95th percentile per-packet one-way delay: 1.204 ms
Loss rate: 0.00%

Run 8: Report of Copa — Data Link

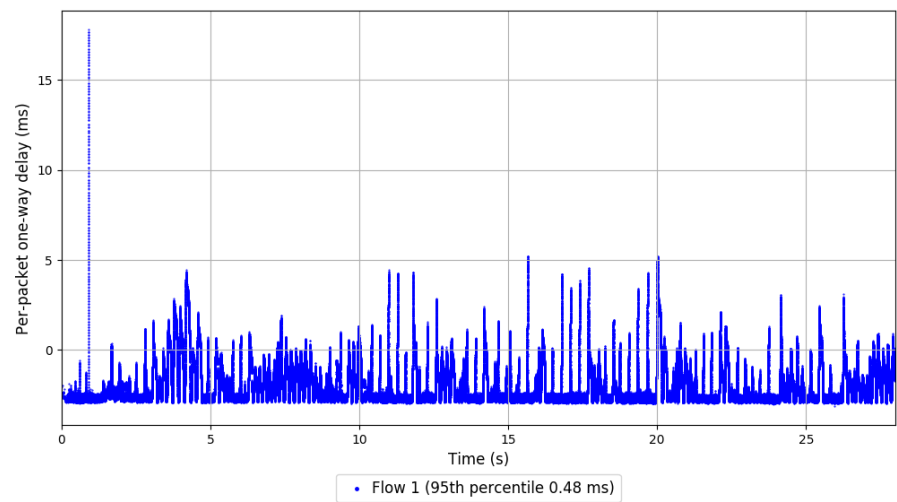
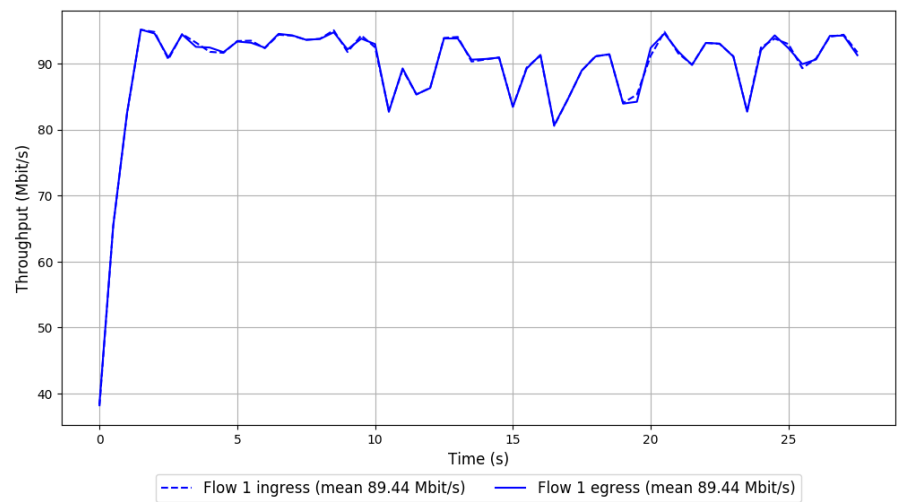


Run 9: Statistics of Copa

Start at: 2018-01-09 00:21:50
End at: 2018-01-09 00:22:20
Local clock offset: 5.951 ms
Remote clock offset: -21.23 ms

Below is generated by plot.py at 2018-01-09 01:59:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.44 Mbit/s
95th percentile per-packet one-way delay: 0.482 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.44 Mbit/s
95th percentile per-packet one-way delay: 0.482 ms
Loss rate: 0.00%

Run 9: Report of Copa — Data Link

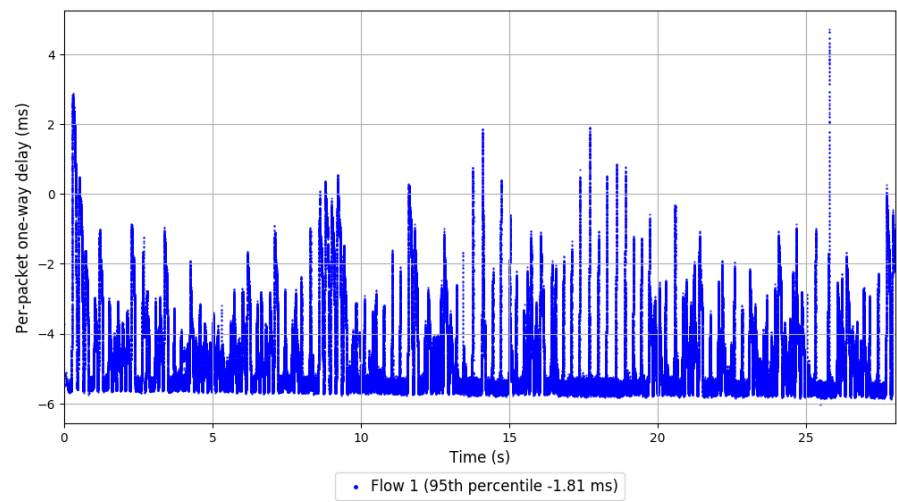
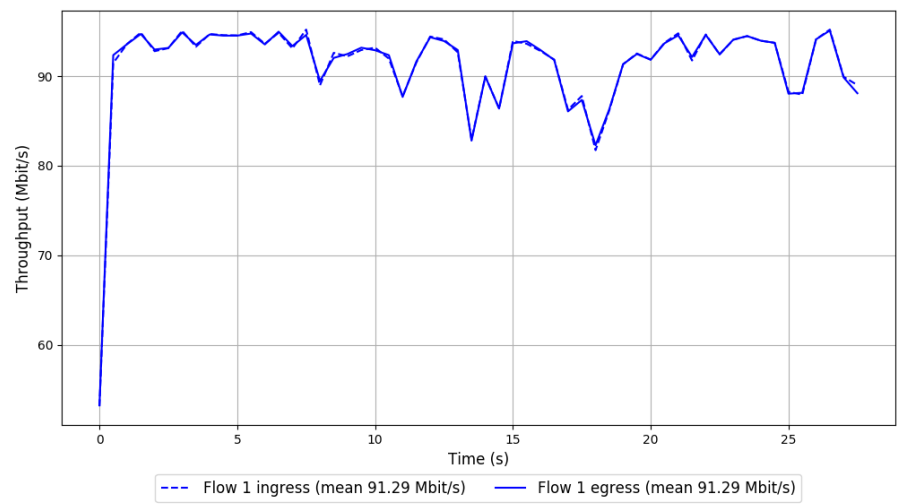


Run 10: Statistics of Copa

Start at: 2018-01-09 00:39:15
End at: 2018-01-09 00:39:45
Local clock offset: 7.08 ms
Remote clock offset: -20.277 ms

Below is generated by plot.py at 2018-01-09 01:59:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.29 Mbit/s
95th percentile per-packet one-way delay: -1.807 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 91.29 Mbit/s
95th percentile per-packet one-way delay: -1.807 ms
Loss rate: 0.00%

Run 10: Report of Copa — Data Link

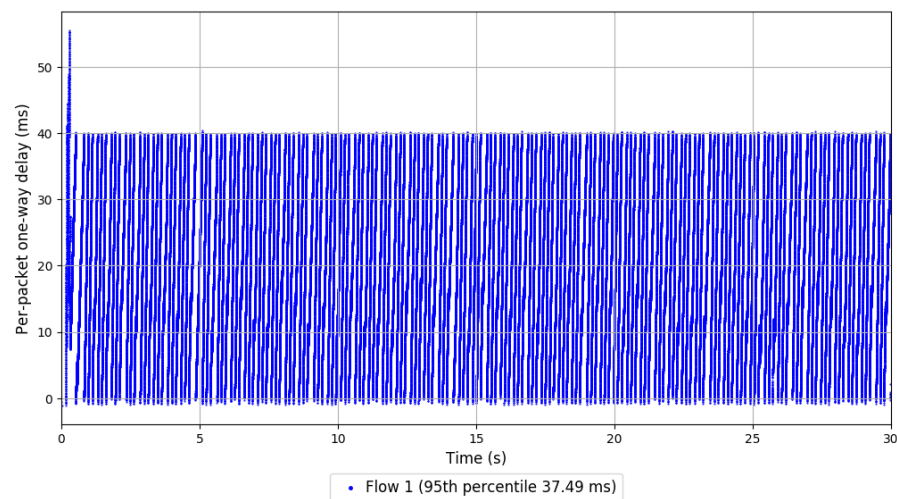
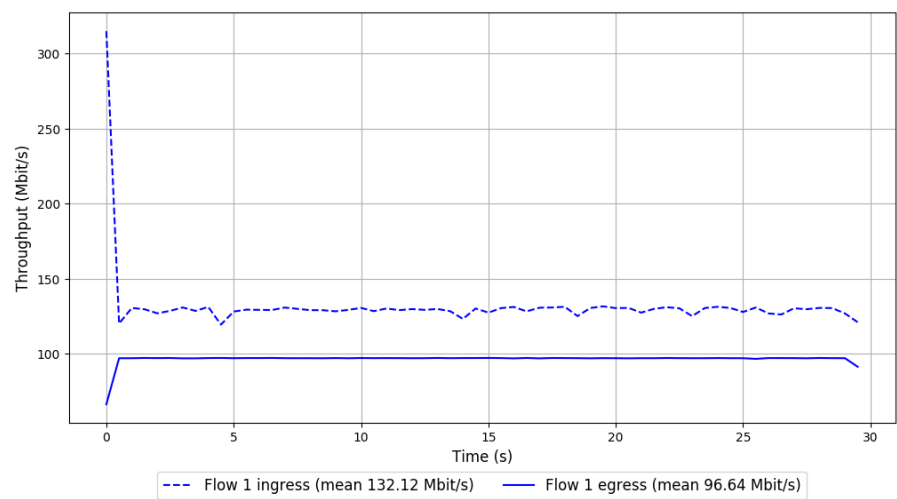


Run 1: Statistics of FillP

Start at: 2018-01-08 21:57:48
End at: 2018-01-08 21:58:18
Local clock offset: 7.052 ms
Remote clock offset: -17.583 ms

Below is generated by plot.py at 2018-01-09 01:59:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.64 Mbit/s
95th percentile per-packet one-way delay: 37.493 ms
Loss rate: 26.85%
-- Flow 1:
Average throughput: 96.64 Mbit/s
95th percentile per-packet one-way delay: 37.493 ms
Loss rate: 26.85%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

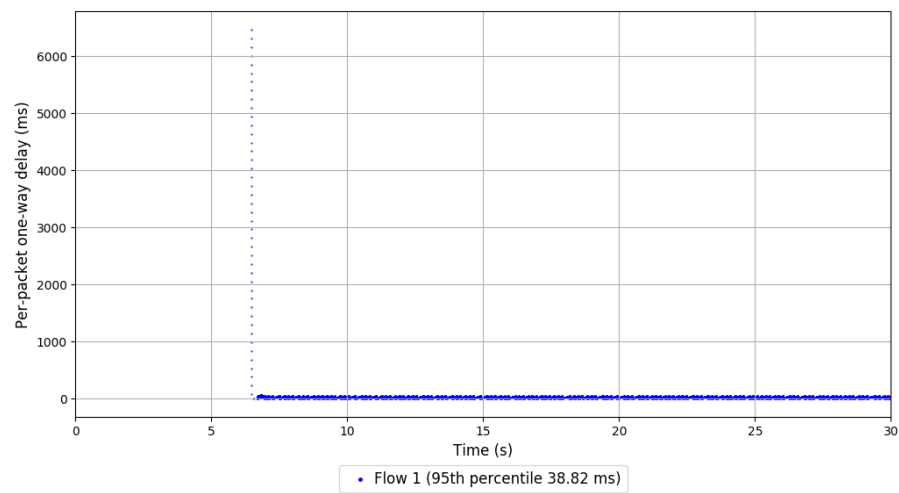
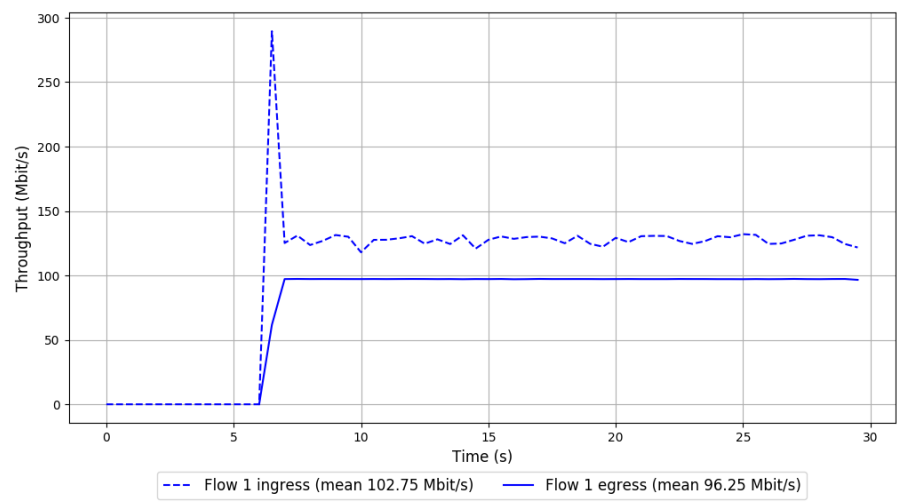
Start at: 2018-01-08 22:15:15

End at: 2018-01-08 22:15:45

Local clock offset: 6.369 ms

Remote clock offset: -19.05 ms

Run 2: Report of FillP — Data Link

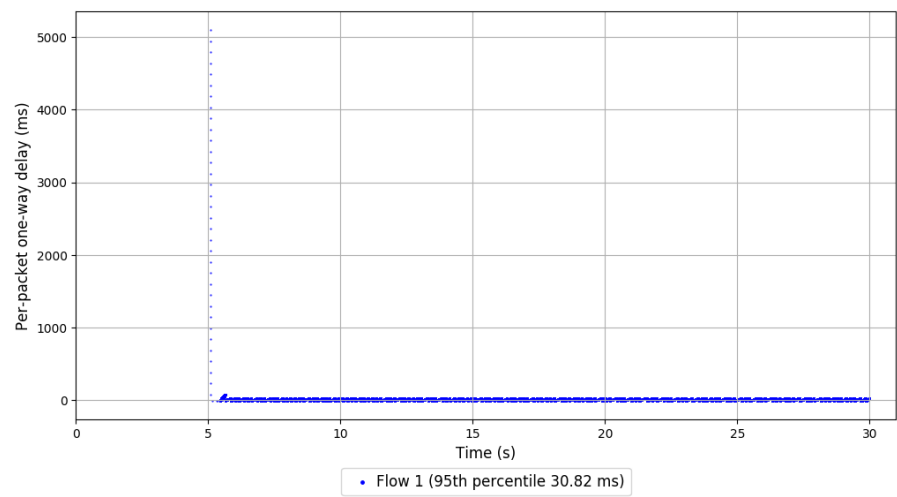
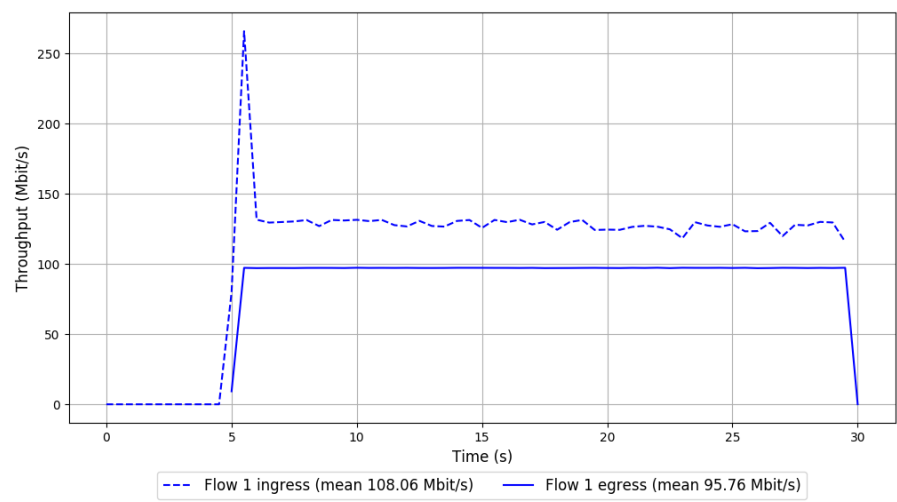


Run 3: Statistics of FillP

Start at: 2018-01-08 22:32:39
End at: 2018-01-08 22:33:09
Local clock offset: 15.076 ms
Remote clock offset: -19.391 ms

Below is generated by plot.py at 2018-01-09 01:59:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.76 Mbit/s
95th percentile per-packet one-way delay: 30.816 ms
Loss rate: 26.35%
-- Flow 1:
Average throughput: 95.76 Mbit/s
95th percentile per-packet one-way delay: 30.816 ms
Loss rate: 26.35%

Run 3: Report of FillP — Data Link

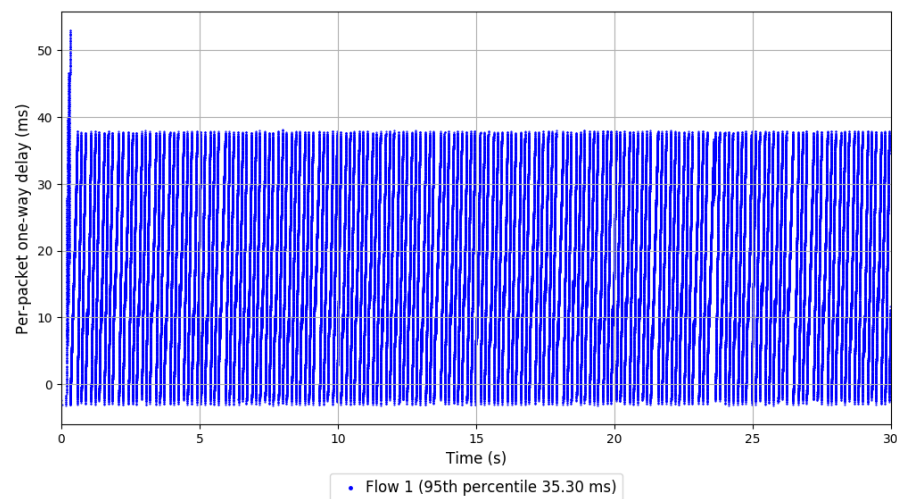
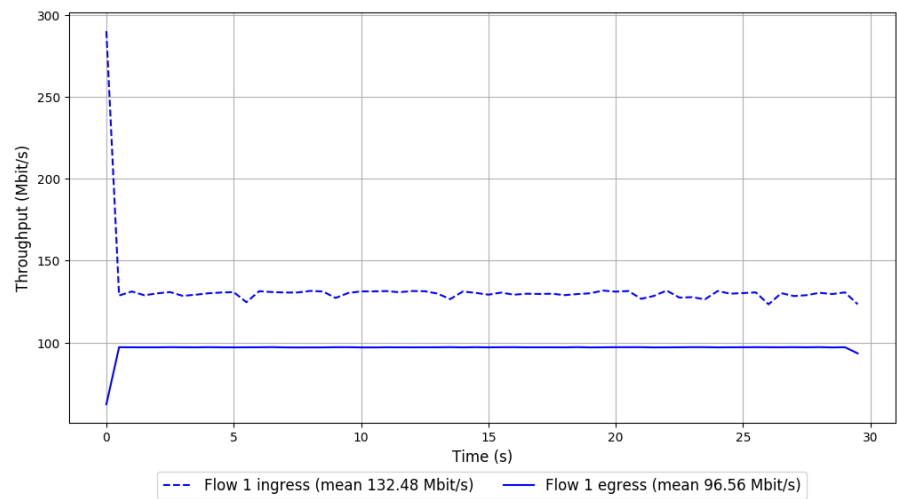


Run 4: Statistics of FillP

Start at: 2018-01-08 22:50:44
End at: 2018-01-08 22:51:14
Local clock offset: 10.634 ms
Remote clock offset: -20.676 ms

Below is generated by plot.py at 2018-01-09 02:00:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 35.303 ms
Loss rate: 27.08%
-- Flow 1:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 35.303 ms
Loss rate: 27.08%

Run 4: Report of FillP — Data Link

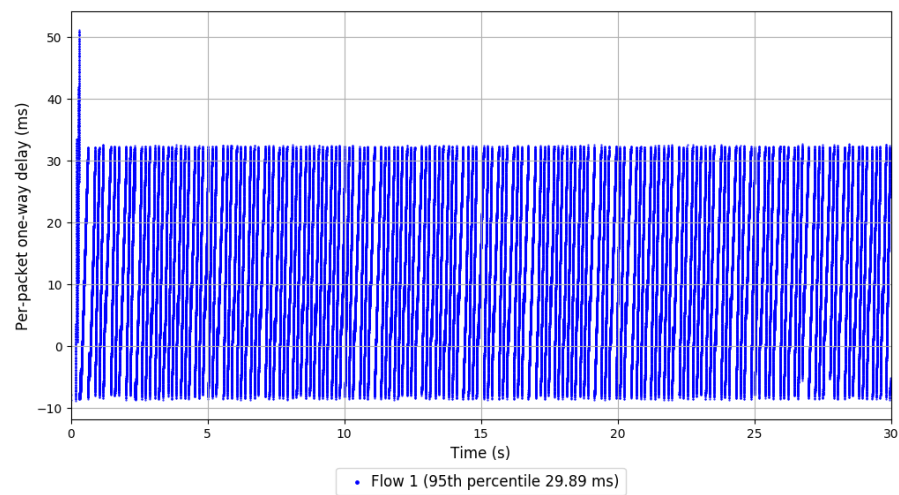
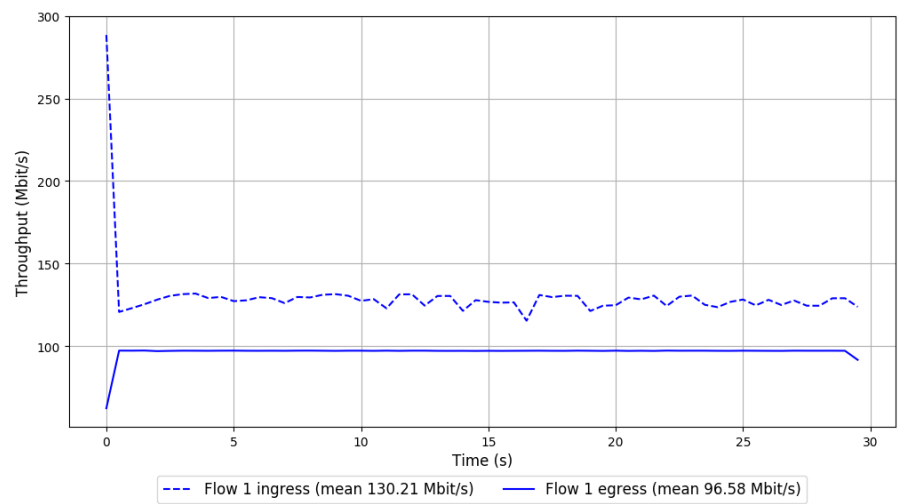


Run 5: Statistics of FillP

Start at: 2018-01-08 23:08:12
End at: 2018-01-08 23:08:42
Local clock offset: 16.664 ms
Remote clock offset: -21.123 ms

Below is generated by plot.py at 2018-01-09 02:00:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.58 Mbit/s
95th percentile per-packet one-way delay: 29.888 ms
Loss rate: 25.82%
-- Flow 1:
Average throughput: 96.58 Mbit/s
95th percentile per-packet one-way delay: 29.888 ms
Loss rate: 25.82%

Run 5: Report of FillP — Data Link

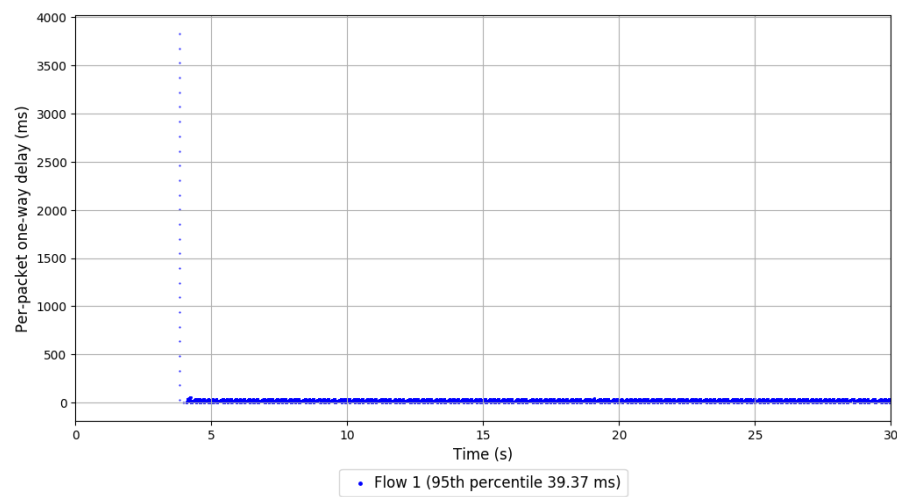
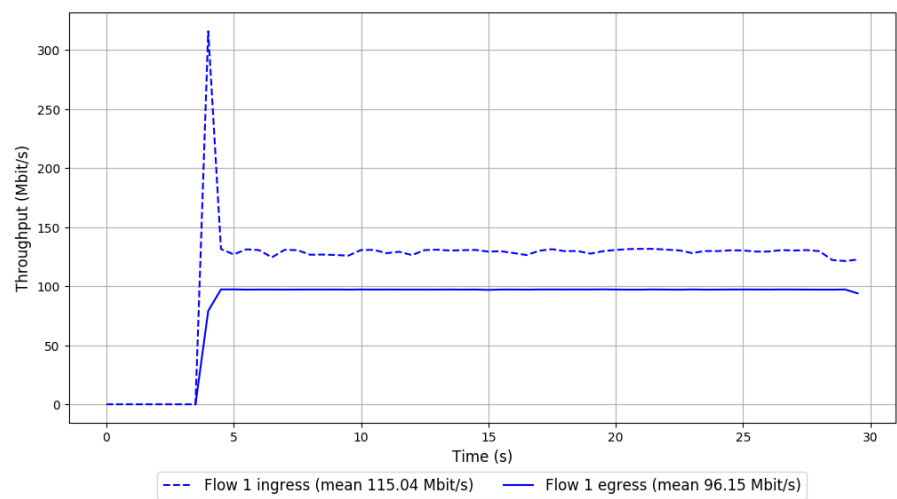


Run 6: Statistics of FillP

Start at: 2018-01-08 23:25:26
End at: 2018-01-08 23:25:56
Local clock offset: 9.361 ms
Remote clock offset: -19.563 ms

Below is generated by plot.py at 2018-01-09 02:00:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.15 Mbit/s
95th percentile per-packet one-way delay: 39.373 ms
Loss rate: 27.05%
-- Flow 1:
Average throughput: 96.15 Mbit/s
95th percentile per-packet one-way delay: 39.373 ms
Loss rate: 27.05%

Run 6: Report of FillP — Data Link

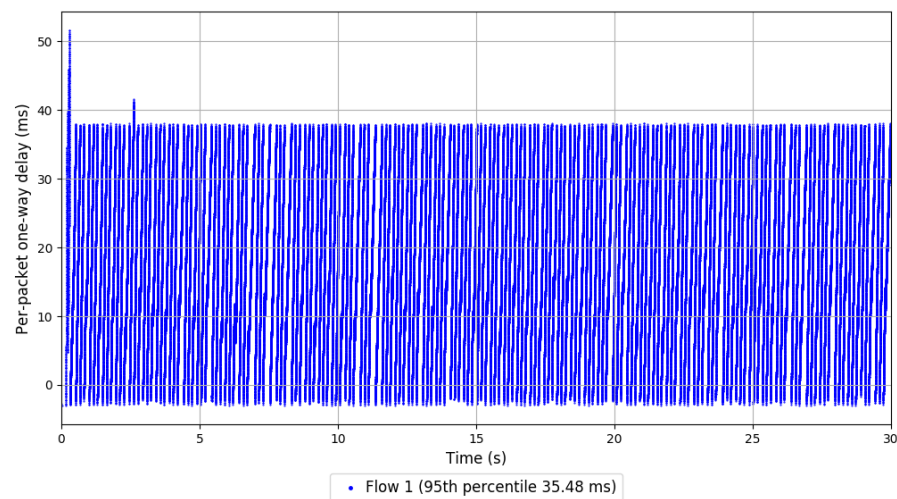
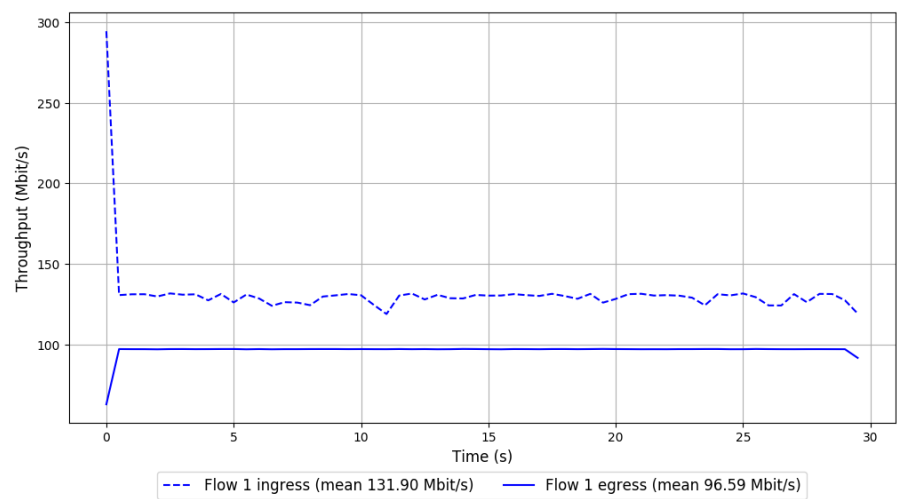


Run 7: Statistics of FillP

Start at: 2018-01-08 23:42:40
End at: 2018-01-08 23:43:10
Local clock offset: 10.022 ms
Remote clock offset: -20.983 ms

Below is generated by plot.py at 2018-01-09 02:02:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.59 Mbit/s
95th percentile per-packet one-way delay: 35.483 ms
Loss rate: 26.76%
-- Flow 1:
Average throughput: 96.59 Mbit/s
95th percentile per-packet one-way delay: 35.483 ms
Loss rate: 26.76%

Run 7: Report of FillP — Data Link

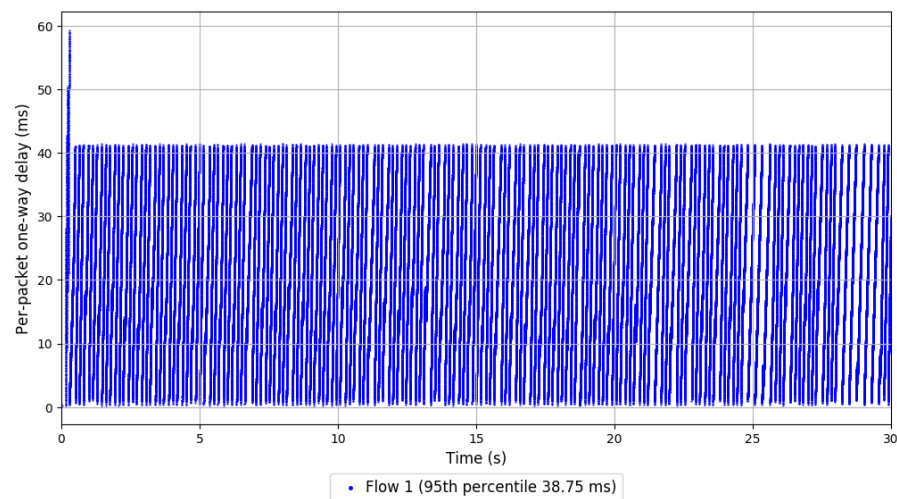
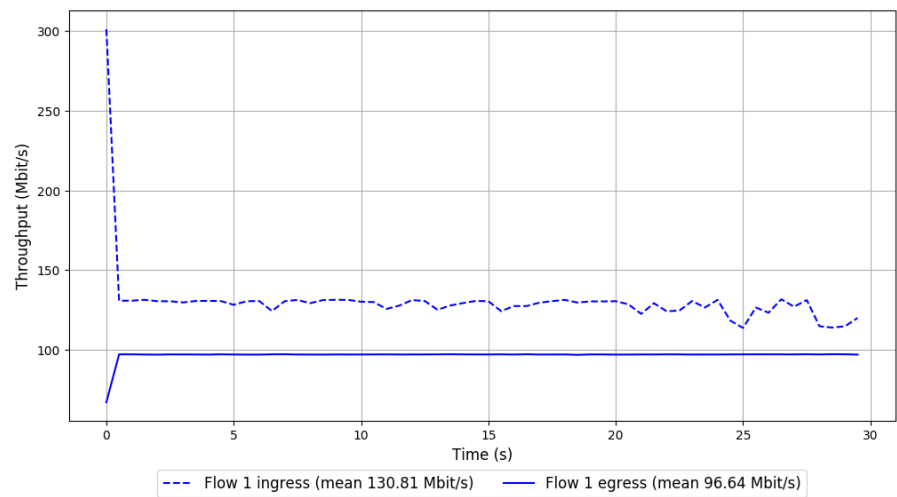


Run 8: Statistics of FillP

Start at: 2018-01-08 23:59:59
End at: 2018-01-09 00:00:29
Local clock offset: 7.65 ms
Remote clock offset: -19.766 ms

Below is generated by plot.py at 2018-01-09 02:02:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.64 Mbit/s
95th percentile per-packet one-way delay: 38.746 ms
Loss rate: 26.05%
-- Flow 1:
Average throughput: 96.64 Mbit/s
95th percentile per-packet one-way delay: 38.746 ms
Loss rate: 26.05%

Run 8: Report of FillP — Data Link

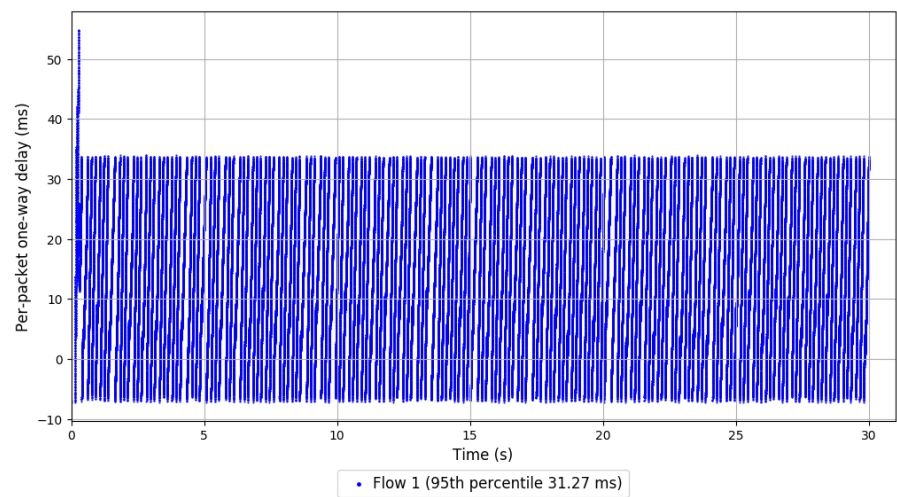
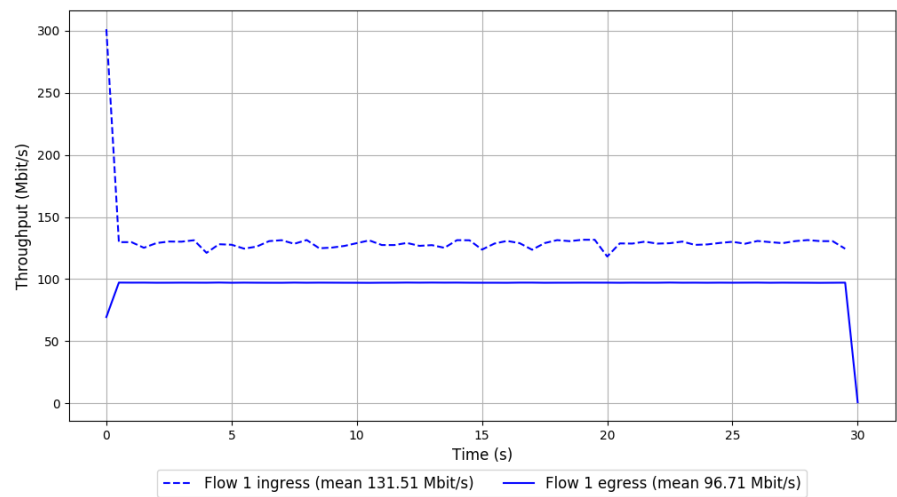


Run 9: Statistics of FillP

Start at: 2018-01-09 00:17:20
End at: 2018-01-09 00:17:50
Local clock offset: 12.7 ms
Remote clock offset: -19.301 ms

Below is generated by plot.py at 2018-01-09 02:02:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.71 Mbit/s
95th percentile per-packet one-way delay: 31.267 ms
Loss rate: 26.38%
-- Flow 1:
Average throughput: 96.71 Mbit/s
95th percentile per-packet one-way delay: 31.267 ms
Loss rate: 26.38%

Run 9: Report of FillP — Data Link

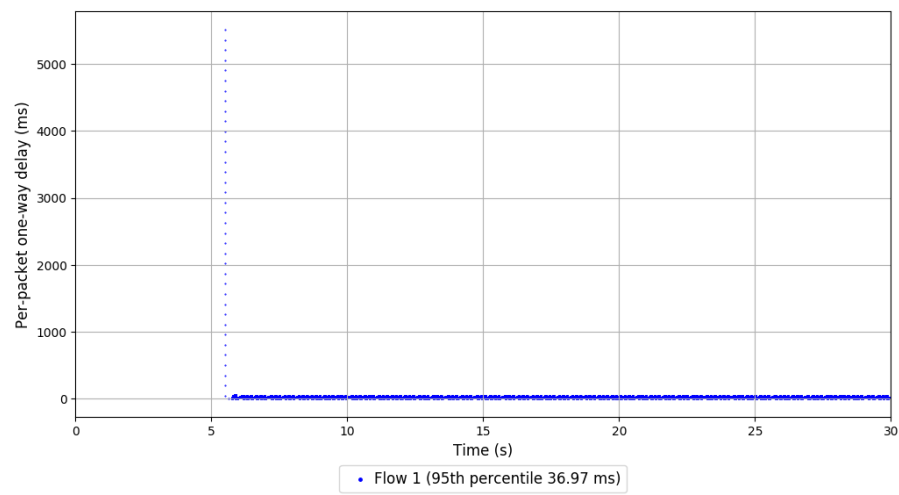
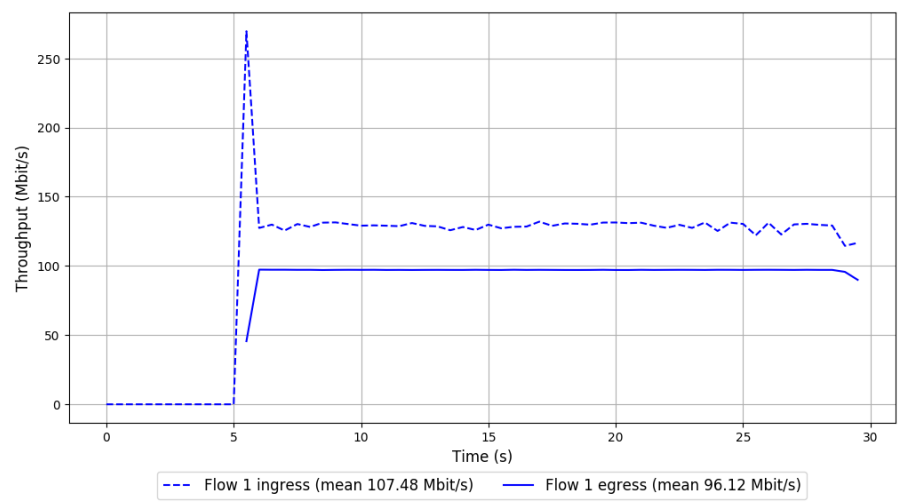


Run 10: Statistics of FillP

Start at: 2018-01-09 00:34:42
End at: 2018-01-09 00:35:12
Local clock offset: 5.902 ms
Remote clock offset: -18.904 ms

Below is generated by plot.py at 2018-01-09 02:02:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.12 Mbit/s
95th percentile per-packet one-way delay: 36.972 ms
Loss rate: 26.99%
-- Flow 1:
Average throughput: 96.12 Mbit/s
95th percentile per-packet one-way delay: 36.972 ms
Loss rate: 26.99%

Run 10: Report of FillP — Data Link

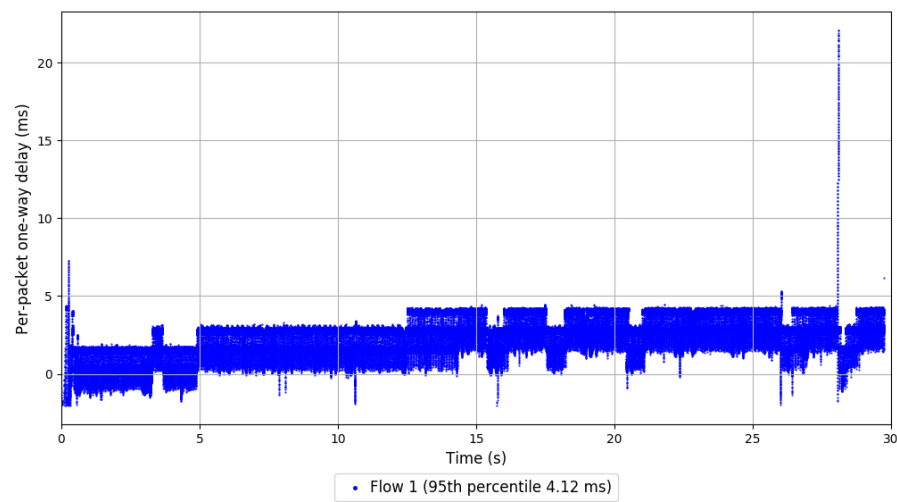
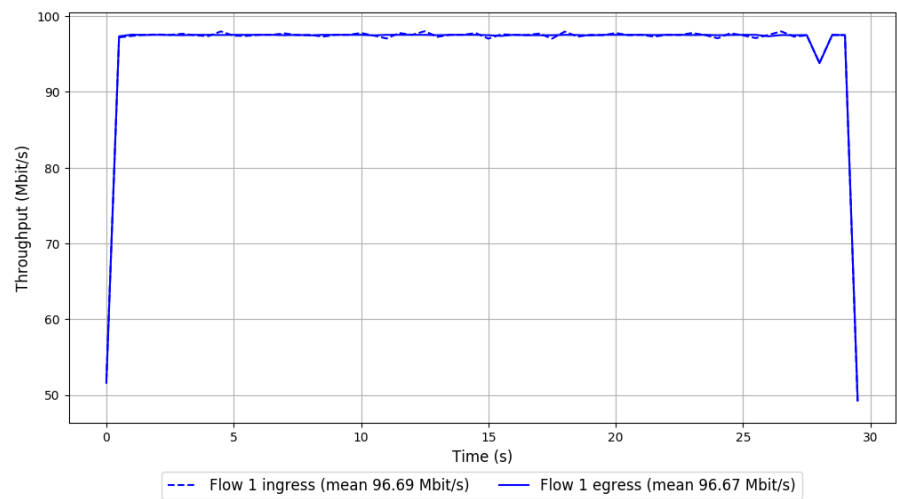


```
Run 1: Statistics of Indigo

Start at: 2018-01-08 21:56:35
End at: 2018-01-08 21:57:05
Local clock offset: 5.407 ms
Remote clock offset: -20.167 ms

# Below is generated by plot.py at 2018-01-09 02:02:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.67 Mbit/s
95th percentile per-packet one-way delay: 4.115 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.67 Mbit/s
95th percentile per-packet one-way delay: 4.115 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

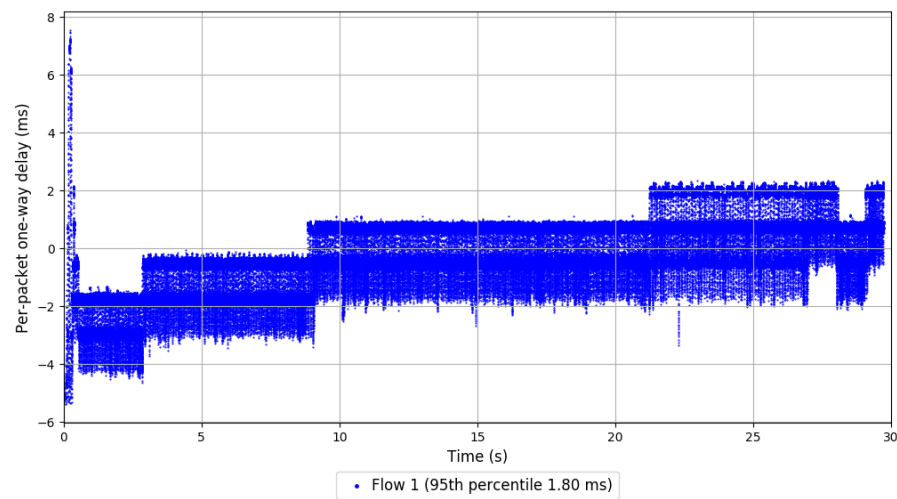
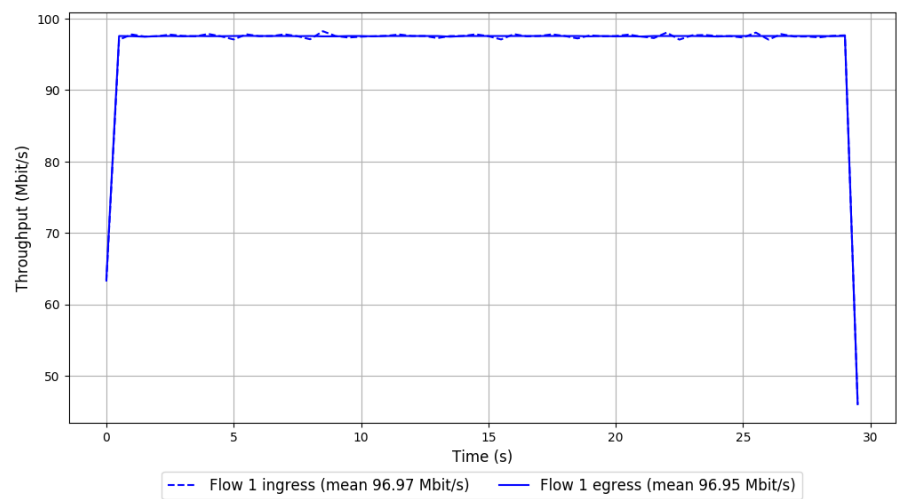


Run 2: Statistics of Indigo

Start at: 2018-01-08 22:14:03
End at: 2018-01-08 22:14:34
Local clock offset: 12.49 ms
Remote clock offset: -18.322 ms

Below is generated by plot.py at 2018-01-09 02:02:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.95 Mbit/s
95th percentile per-packet one-way delay: 1.804 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.95 Mbit/s
95th percentile per-packet one-way delay: 1.804 ms
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

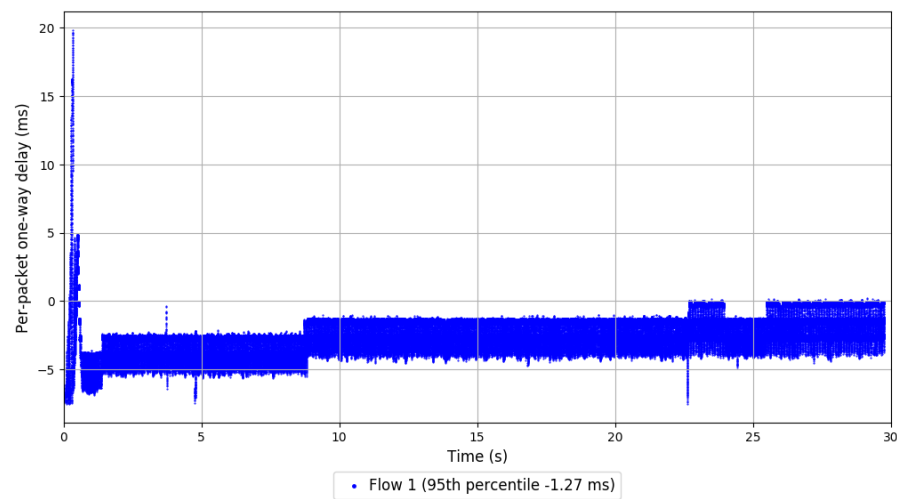
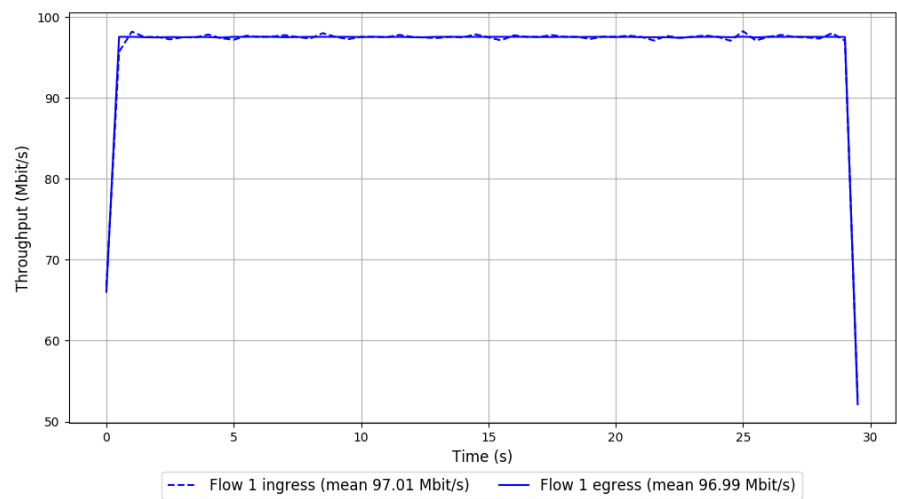


Run 3: Statistics of Indigo

Start at: 2018-01-08 22:31:28
End at: 2018-01-08 22:31:58
Local clock offset: 15.132 ms
Remote clock offset: -18.973 ms

Below is generated by plot.py at 2018-01-09 02:02:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.99 Mbit/s
95th percentile per-packet one-way delay: -1.272 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.99 Mbit/s
95th percentile per-packet one-way delay: -1.272 ms
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

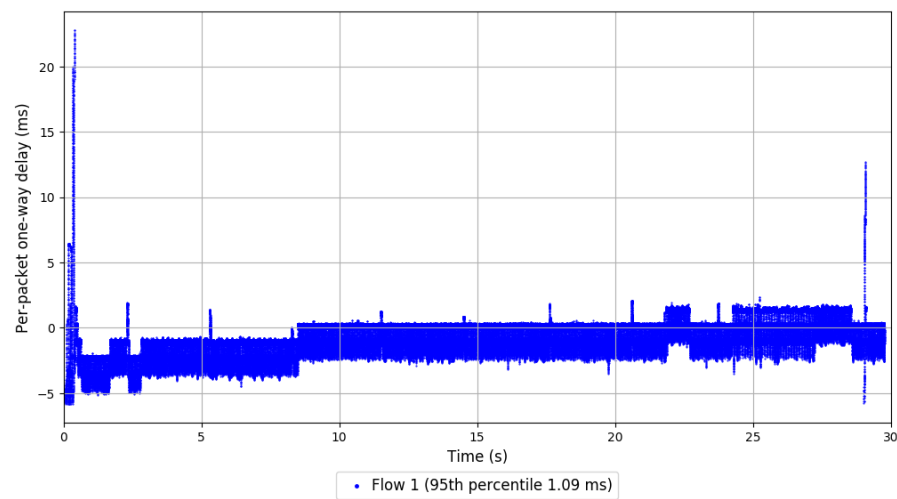
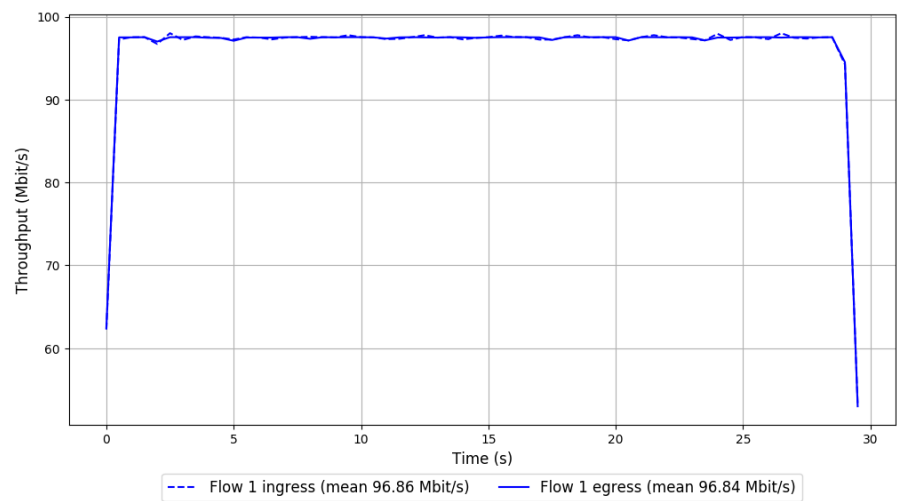


Run 4: Statistics of Indigo

Start at: 2018-01-08 22:49:31
End at: 2018-01-08 22:50:01
Local clock offset: 13.977 ms
Remote clock offset: -19.925 ms

Below is generated by plot.py at 2018-01-09 02:02:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.84 Mbit/s
95th percentile per-packet one-way delay: 1.092 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.84 Mbit/s
95th percentile per-packet one-way delay: 1.092 ms
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

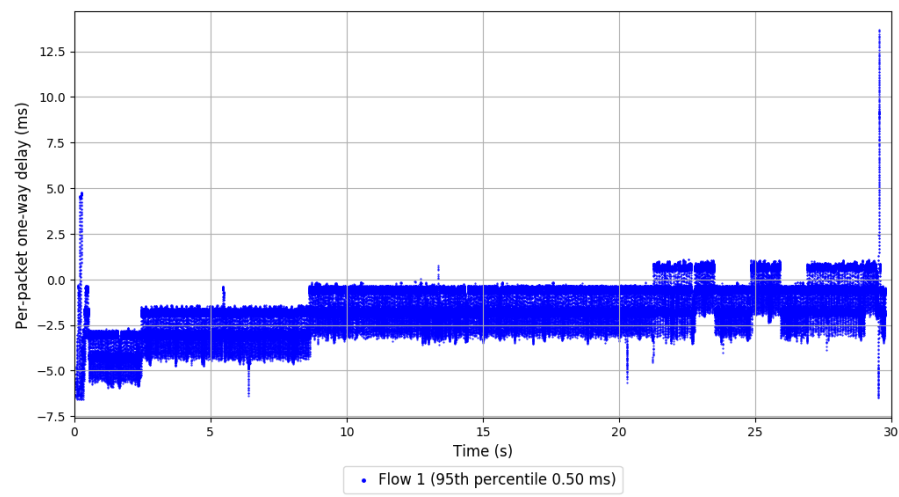
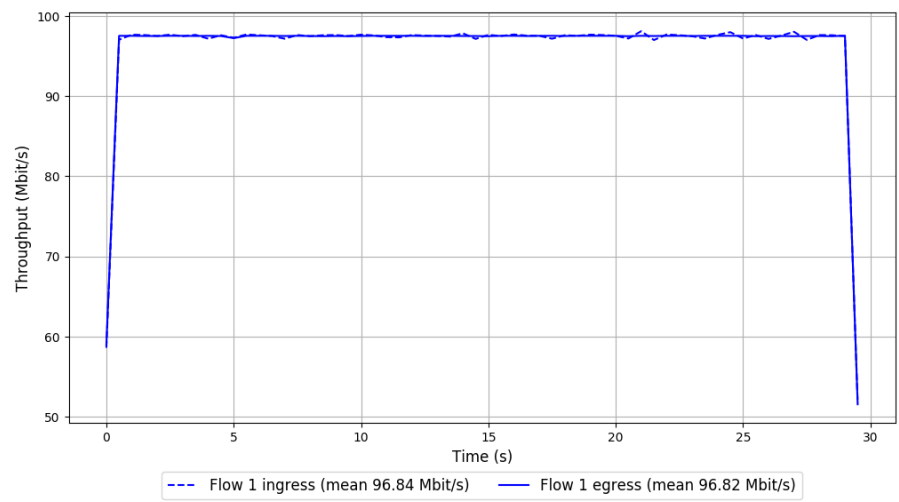


Run 5: Statistics of Indigo

Start at: 2018-01-08 23:07:00
End at: 2018-01-08 23:07:30
Local clock offset: 14.818 ms
Remote clock offset: -20.842 ms

Below is generated by plot.py at 2018-01-09 02:04:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.82 Mbit/s
95th percentile per-packet one-way delay: 0.496 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.82 Mbit/s
95th percentile per-packet one-way delay: 0.496 ms
Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-08 23:24:15

End at: 2018-01-08 23:24:45

Local clock offset: 16.876 ms

Remote clock offset: -20.048 ms

Below is generated by plot.py at 2018-01-09 02:04:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.87 Mbit/s

95th percentile per-packet one-way delay: 0.050 ms

Loss rate: 0.00%

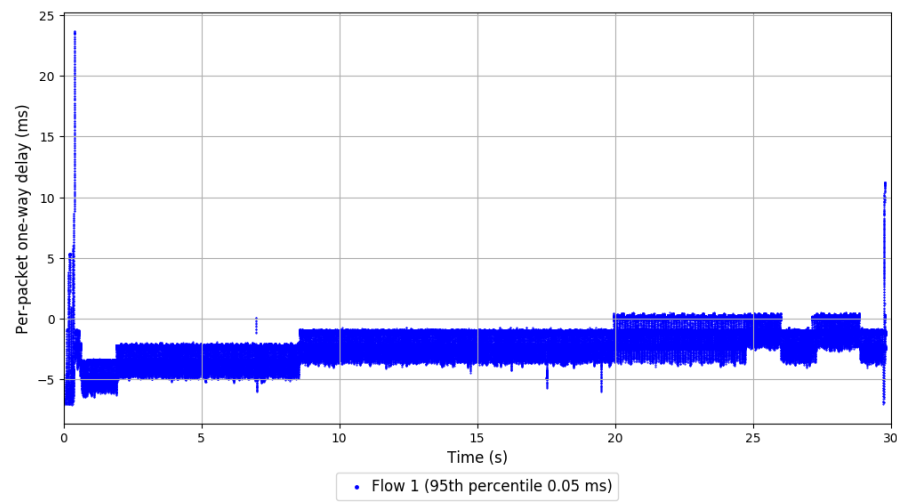
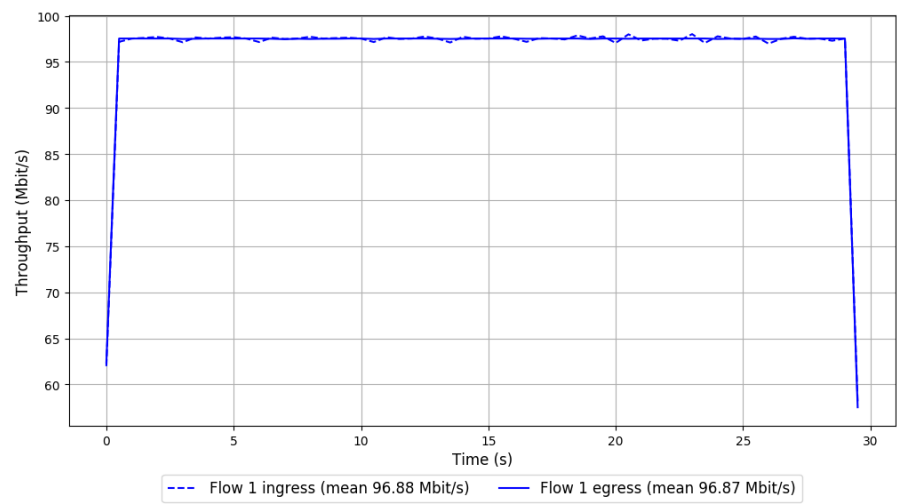
-- Flow 1:

Average throughput: 96.87 Mbit/s

95th percentile per-packet one-way delay: 0.050 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link

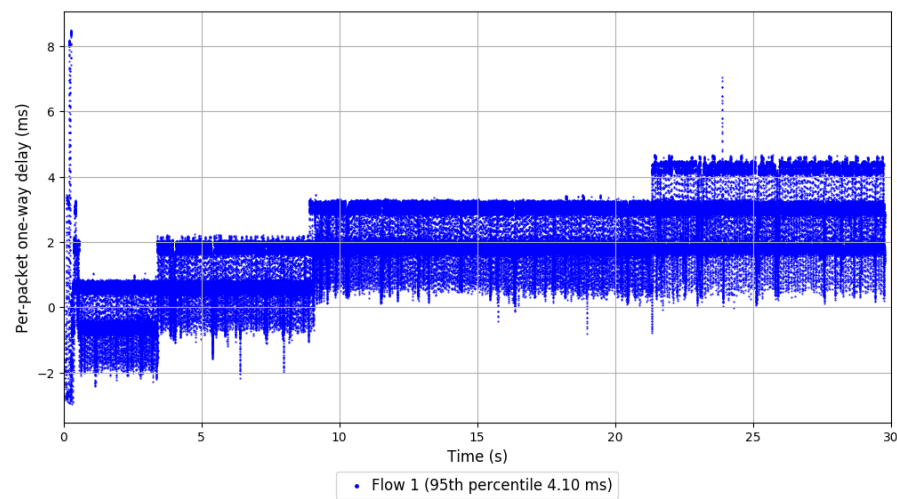
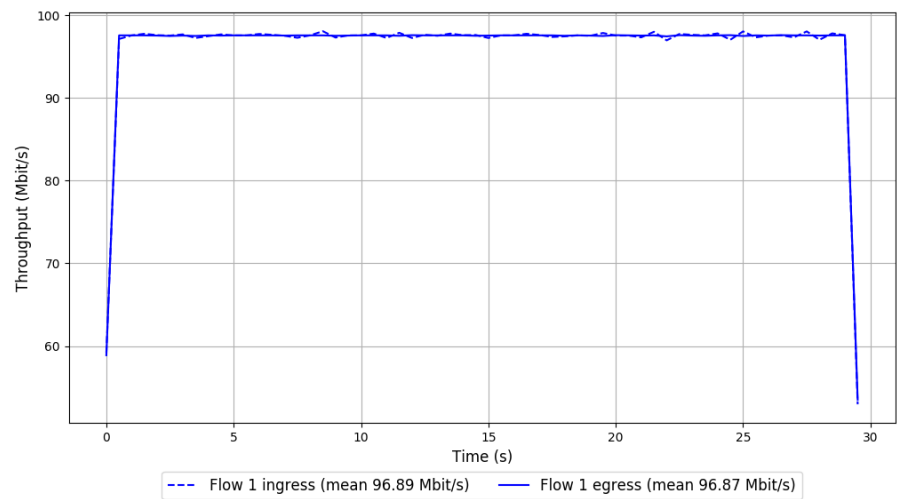


Run 7: Statistics of Indigo

Start at: 2018-01-08 23:41:30
End at: 2018-01-08 23:42:00
Local clock offset: 10.239 ms
Remote clock offset: -20.753 ms

Below is generated by plot.py at 2018-01-09 02:04:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.87 Mbit/s
95th percentile per-packet one-way delay: 4.102 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.87 Mbit/s
95th percentile per-packet one-way delay: 4.102 ms
Loss rate: 0.00%

Run 7: Report of Indigo — Data Link

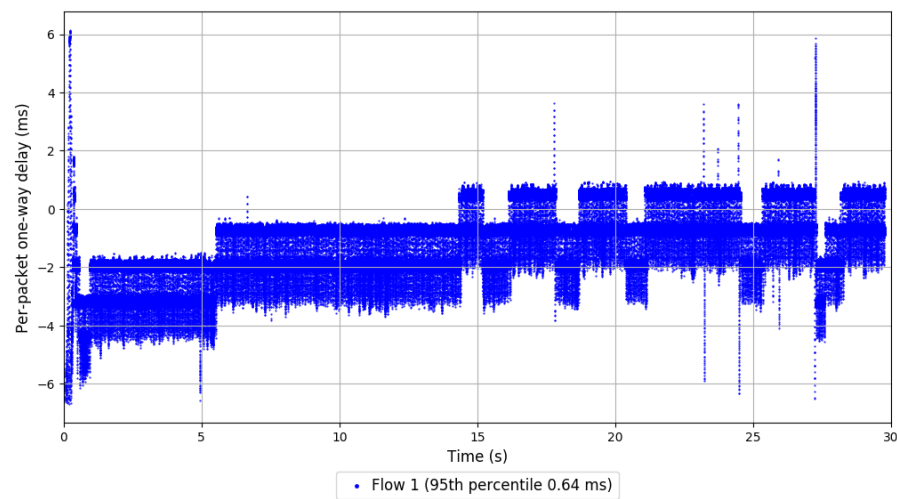
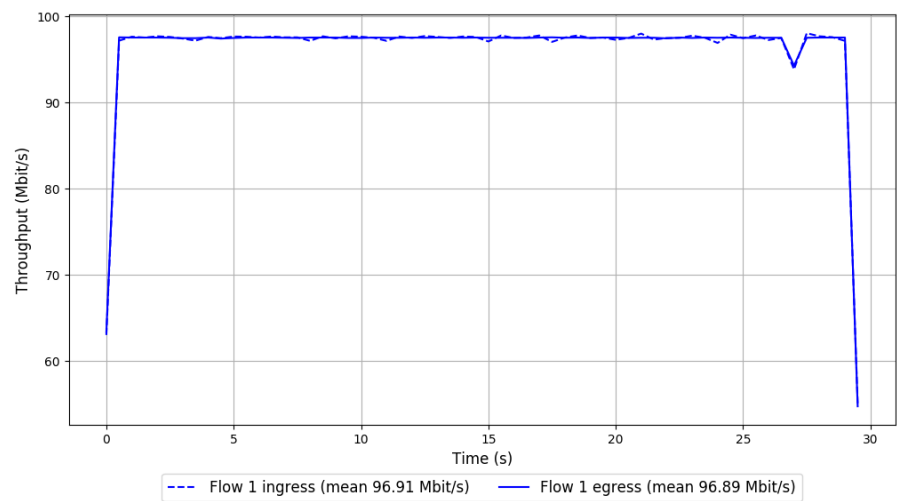


Run 8: Statistics of Indigo

Start at: 2018-01-08 23:58:48
End at: 2018-01-08 23:59:18
Local clock offset: 13.882 ms
Remote clock offset: -20.463 ms

Below is generated by plot.py at 2018-01-09 02:04:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.89 Mbit/s
95th percentile per-packet one-way delay: 0.644 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.89 Mbit/s
95th percentile per-packet one-way delay: 0.644 ms
Loss rate: 0.00%

Run 8: Report of Indigo — Data Link

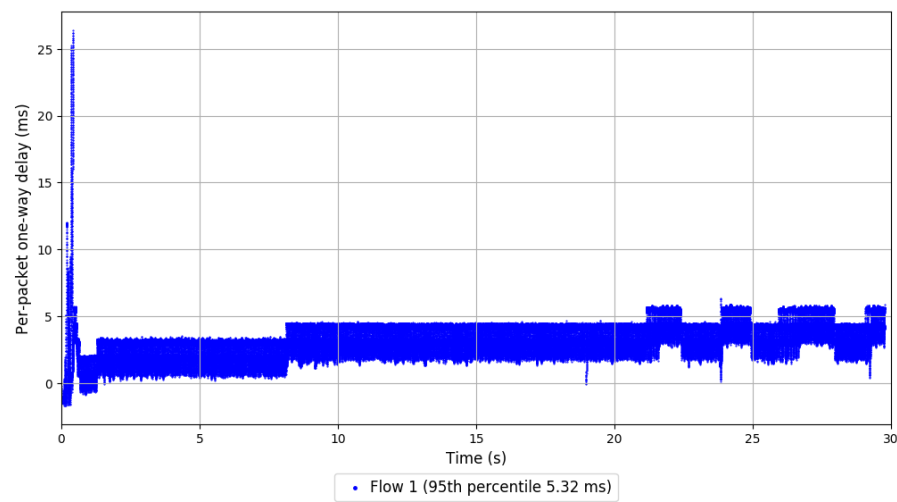
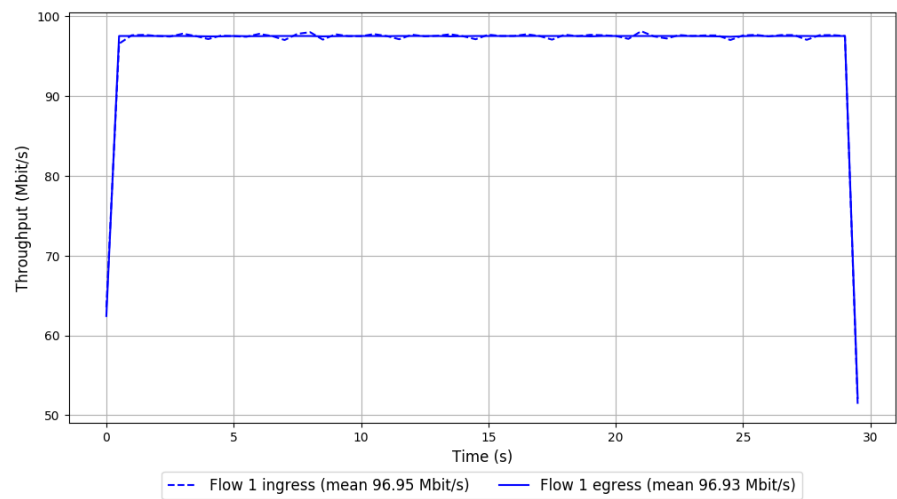


Run 9: Statistics of Indigo

Start at: 2018-01-09 00:16:08
End at: 2018-01-09 00:16:38
Local clock offset: 6.983 ms
Remote clock offset: -19.653 ms

Below is generated by plot.py at 2018-01-09 02:04:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.93 Mbit/s
95th percentile per-packet one-way delay: 5.315 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.93 Mbit/s
95th percentile per-packet one-way delay: 5.315 ms
Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-09 00:33:29

End at: 2018-01-09 00:33:59

Local clock offset: 5.718 ms

Remote clock offset: -20.464 ms

Below is generated by plot.py at 2018-01-09 02:04:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.88 Mbit/s

95th percentile per-packet one-way delay: 4.464 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 96.88 Mbit/s

95th percentile per-packet one-way delay: 4.464 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

