

Pantheon Report

Generated at 2018-01-09 06:17:46 (UTC).

Data path: AWS California 1 Ethernet (*local*) → Stanford 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).

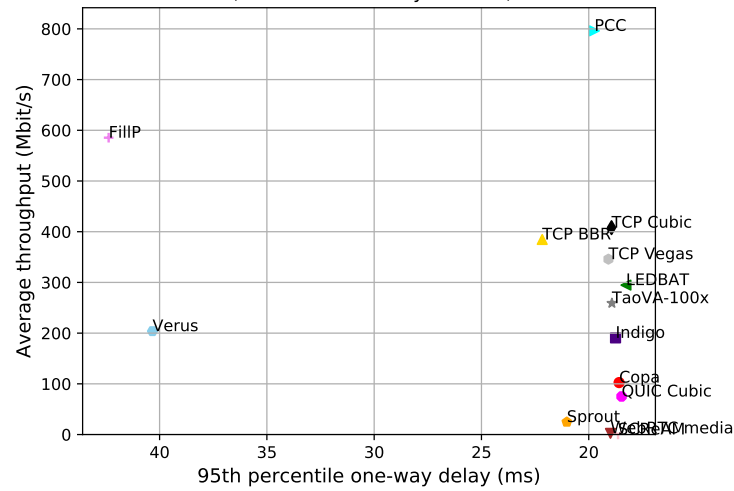
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

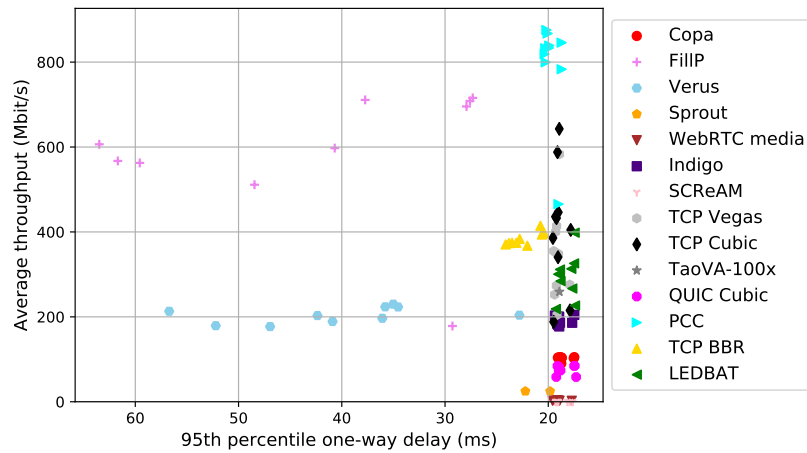
Git summary:

```
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-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
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 California 1 Ethernet to Stanford Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



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



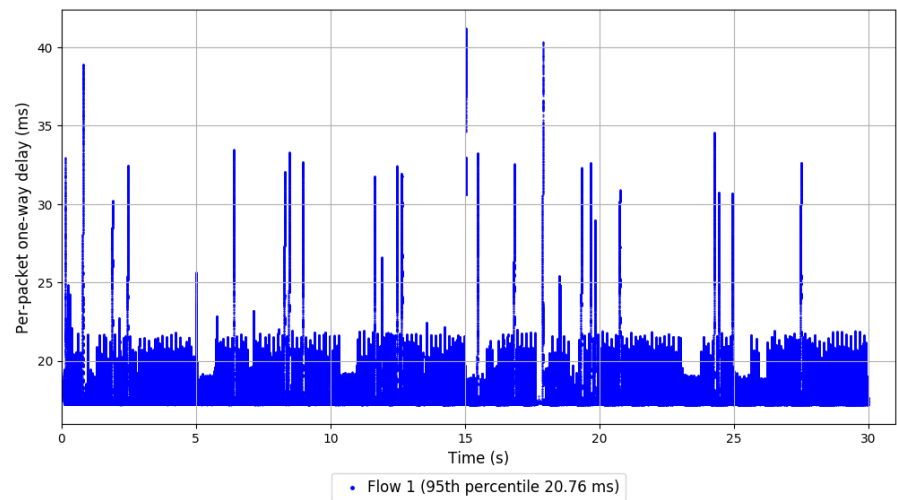
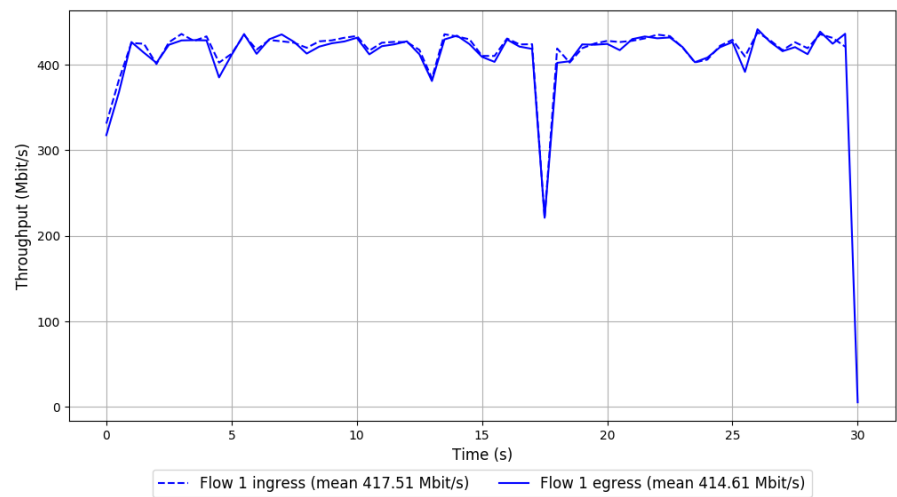
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	384.68	22.17	1.84
TCP Cubic	10	408.00	18.94	0.02
LEDBAT	10	294.69	18.27	0.01
PCC	10	796.09	19.74	0.51
QUIC Cubic	9	75.09	18.47	0.04
SCReAM	10	0.22	18.63	0.00
WebRTC media	10	2.36	18.99	0.01
Sprout	2	24.77	21.02	0.01
TaoVA-100x	1	259.08	18.92	0.01
TCP Vegas	10	345.86	19.08	0.01
Verus	10	203.91	40.33	7.37
Copa	10	102.47	18.59	0.00
FillP	10	585.39	42.37	5.51
Indigo	10	190.65	18.75	0.01

Run 1: Statistics of TCP BBR

Start at: 2018-01-08 22:16:45
End at: 2018-01-08 22:17:15
Local clock offset: -17.174 ms
Remote clock offset: -1.615 ms

Below is generated by plot.py at 2018-01-09 04:18:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 414.61 Mbit/s
95th percentile per-packet one-way delay: 20.759 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 414.61 Mbit/s
95th percentile per-packet one-way delay: 20.759 ms
Loss rate: 0.69%

Run 1: Report of TCP BBR — Data Link

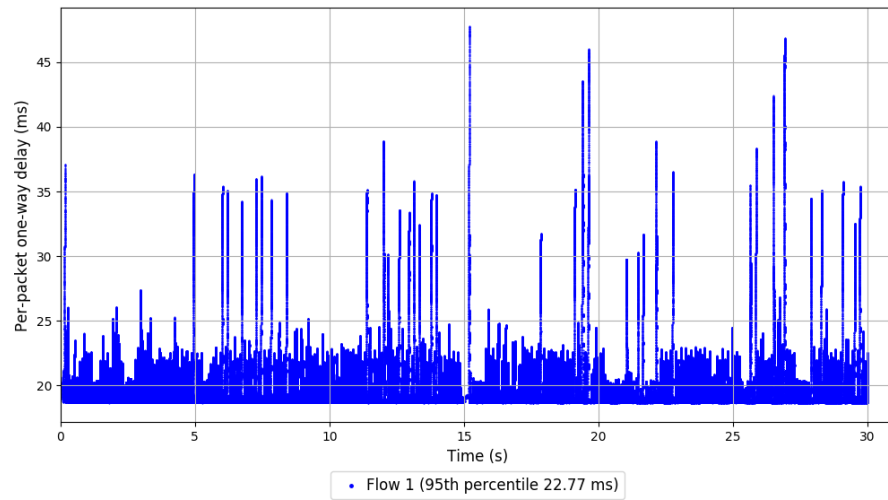
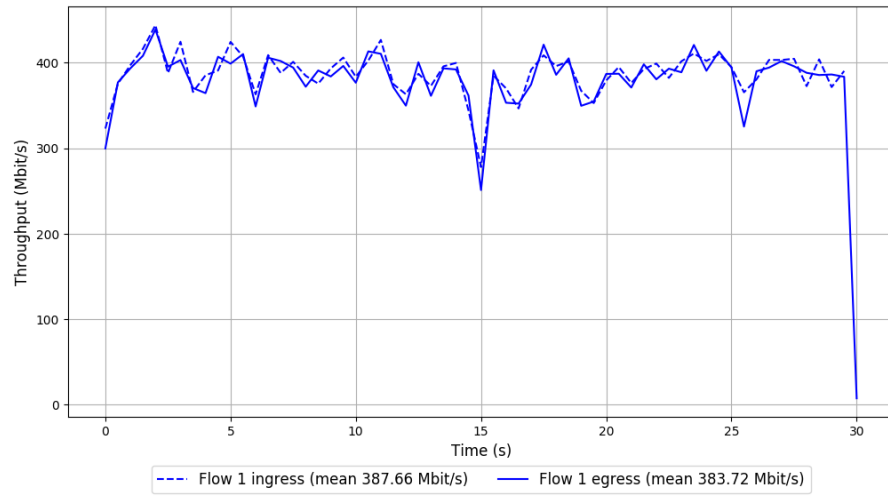


Run 2: Statistics of TCP BBR

Start at: 2018-01-08 22:37:02
End at: 2018-01-08 22:37:32
Local clock offset: -19.606 ms
Remote clock offset: -1.865 ms

Below is generated by plot.py at 2018-01-09 04:18:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 383.72 Mbit/s
95th percentile per-packet one-way delay: 22.775 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 383.72 Mbit/s
95th percentile per-packet one-way delay: 22.775 ms
Loss rate: 1.02%

Run 2: Report of TCP BBR — Data Link

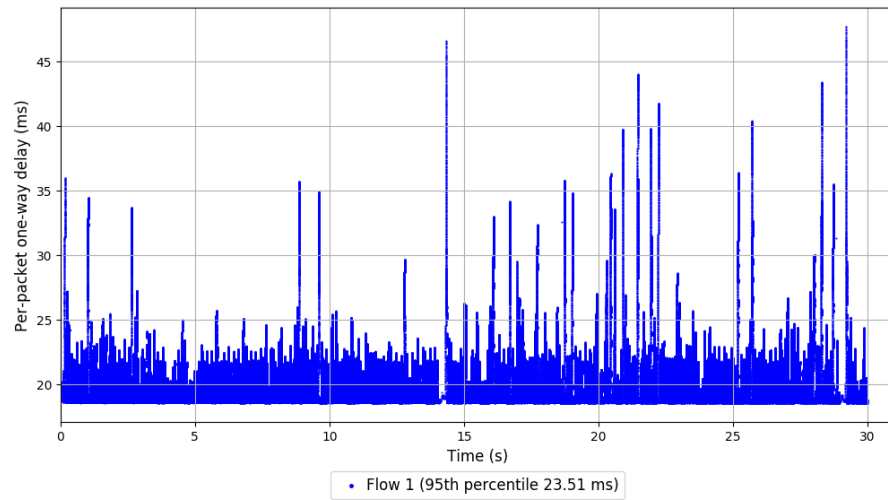
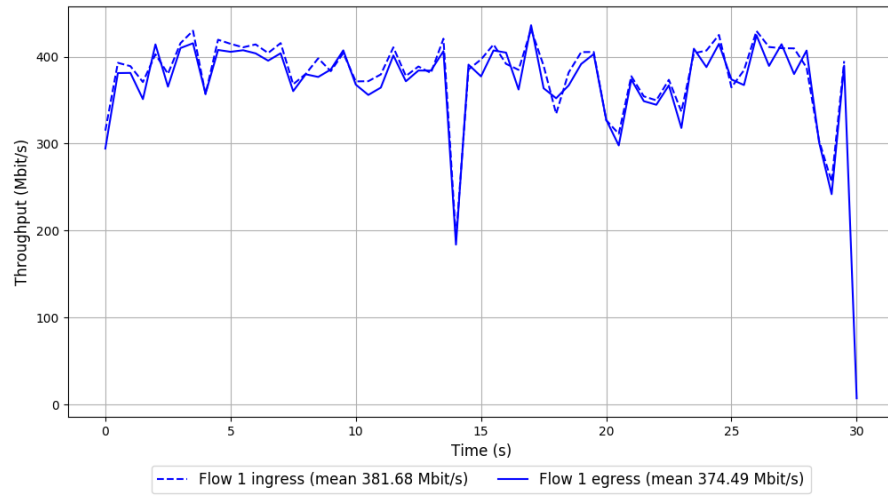


Run 3: Statistics of TCP BBR

Start at: 2018-01-08 22:57:08
End at: 2018-01-08 22:57:38
Local clock offset: -21.454 ms
Remote clock offset: -1.603 ms

Below is generated by plot.py at 2018-01-09 04:18:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 374.49 Mbit/s
95th percentile per-packet one-way delay: 23.511 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 374.49 Mbit/s
95th percentile per-packet one-way delay: 23.511 ms
Loss rate: 1.89%

Run 3: Report of TCP BBR — Data Link

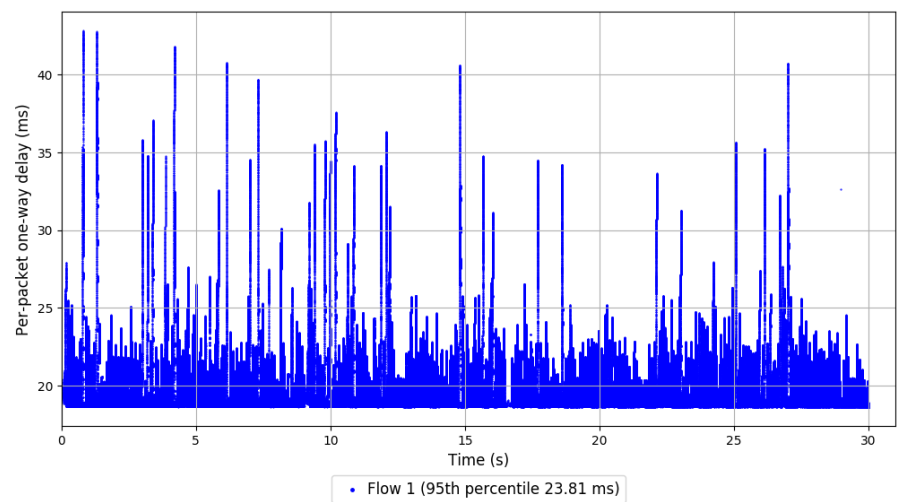
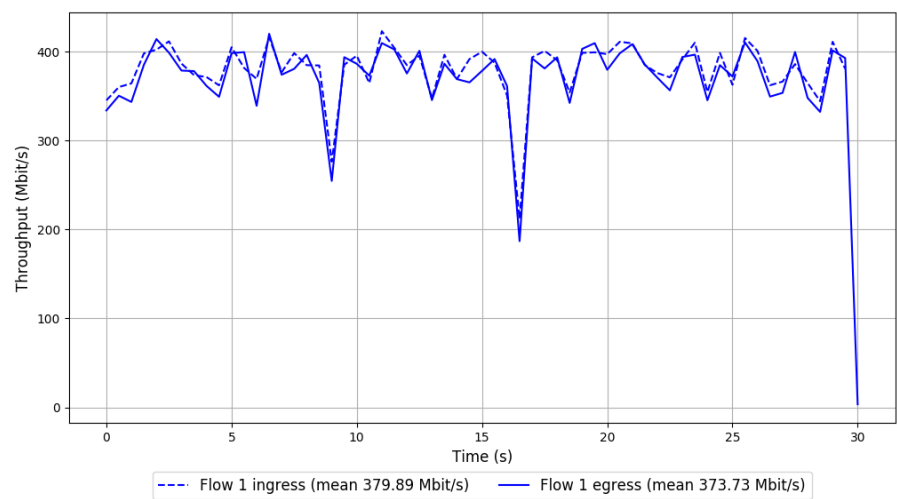


Run 4: Statistics of TCP BBR

Start at: 2018-01-08 23:17:15
End at: 2018-01-08 23:17:45
Local clock offset: -22.94 ms
Remote clock offset: -1.453 ms

Below is generated by plot.py at 2018-01-09 04:18:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 373.73 Mbit/s
95th percentile per-packet one-way delay: 23.813 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 373.73 Mbit/s
95th percentile per-packet one-way delay: 23.813 ms
Loss rate: 1.62%

Run 4: Report of TCP BBR — Data Link

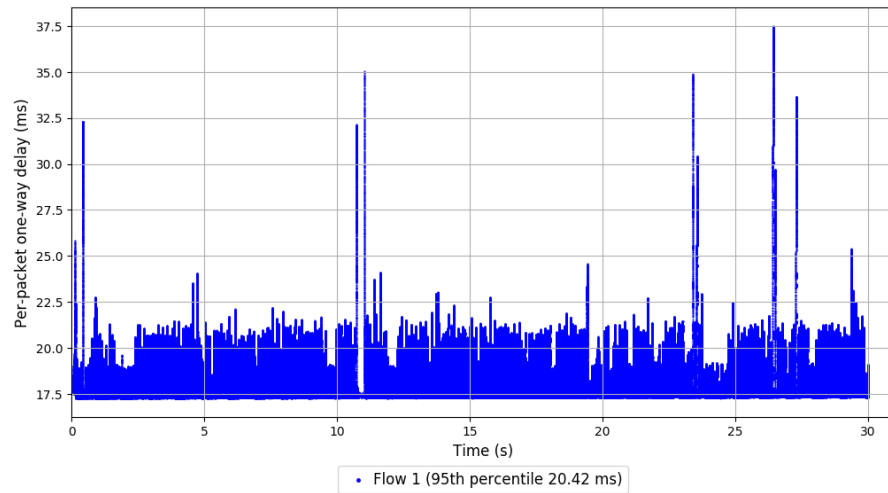
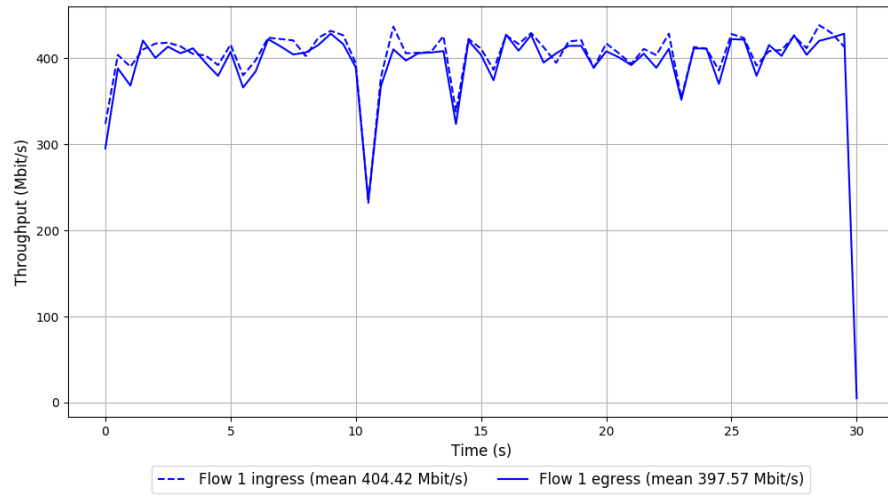


Run 5: Statistics of TCP BBR

Start at: 2018-01-08 23:37:41
End at: 2018-01-08 23:38:11
Local clock offset: -23.519 ms
Remote clock offset: -1.636 ms

Below is generated by plot.py at 2018-01-09 04:18:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 397.57 Mbit/s
95th percentile per-packet one-way delay: 20.418 ms
Loss rate: 1.69%
-- Flow 1:
Average throughput: 397.57 Mbit/s
95th percentile per-packet one-way delay: 20.418 ms
Loss rate: 1.69%

Run 5: Report of TCP BBR — Data Link

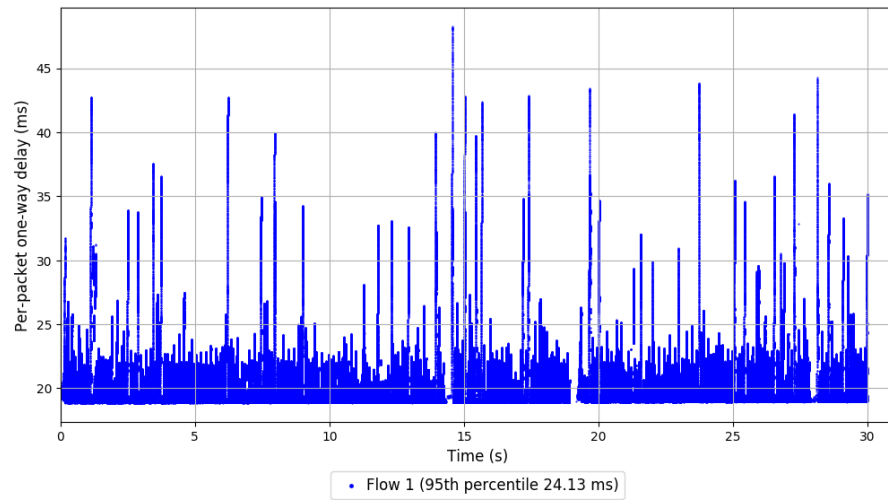
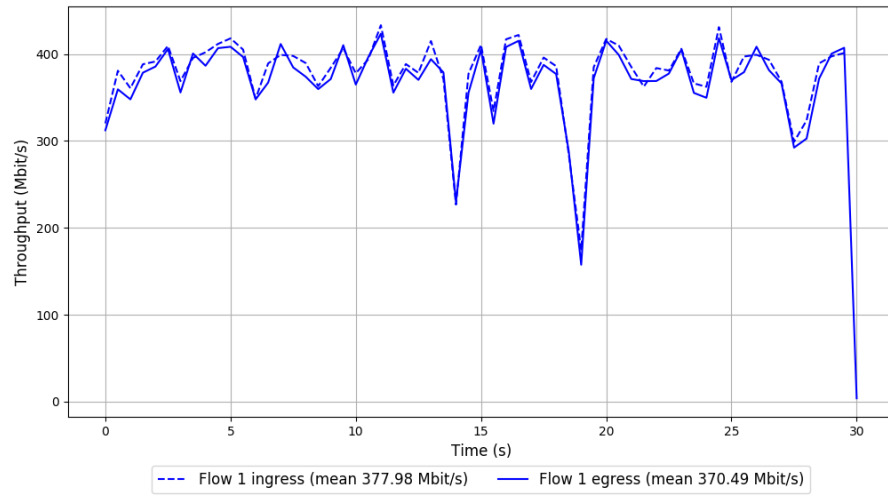


Run 6: Statistics of TCP BBR

Start at: 2018-01-08 23:57:40
End at: 2018-01-08 23:58:10
Local clock offset: -16.117 ms
Remote clock offset: -1.088 ms

Below is generated by plot.py at 2018-01-09 04:18:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 370.49 Mbit/s
95th percentile per-packet one-way delay: 24.127 ms
Loss rate: 1.99%
-- Flow 1:
Average throughput: 370.49 Mbit/s
95th percentile per-packet one-way delay: 24.127 ms
Loss rate: 1.99%

Run 6: Report of TCP BBR — Data Link

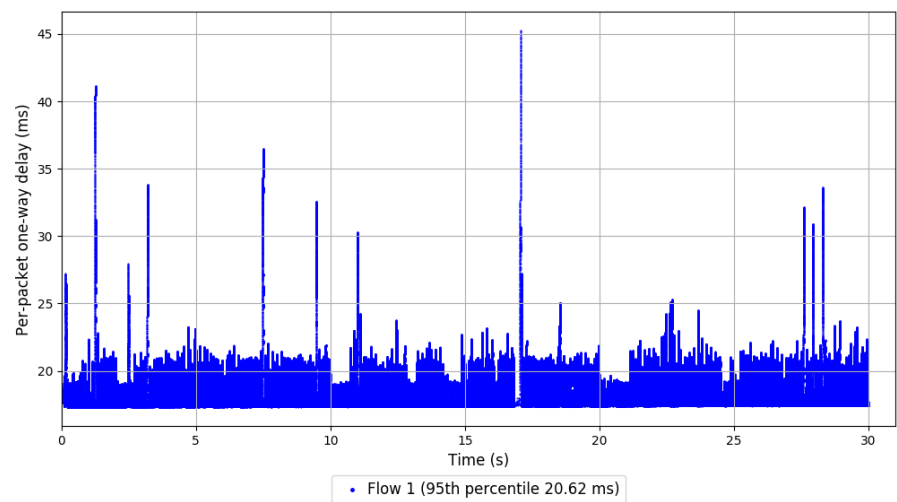
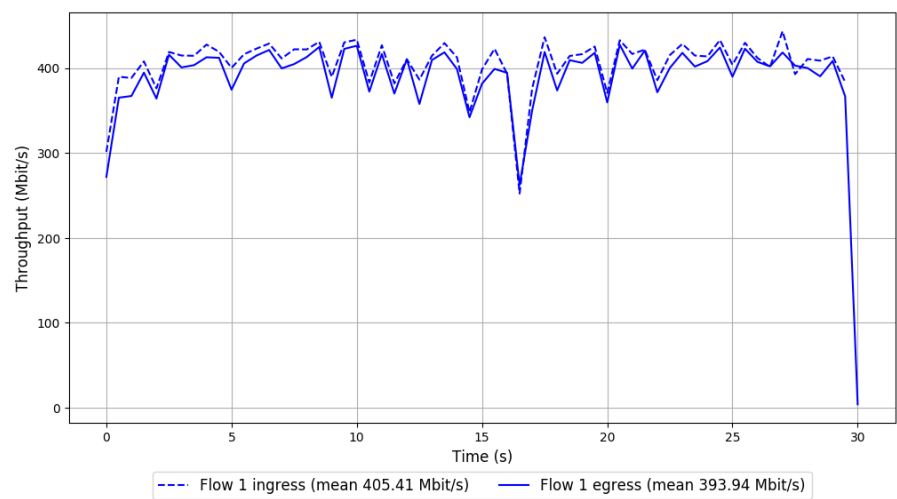


Run 7: Statistics of TCP BBR

Start at: 2018-01-09 00:17:37
End at: 2018-01-09 00:18:07
Local clock offset: -10.779 ms
Remote clock offset: -1.424 ms

Below is generated by plot.py at 2018-01-09 04:18:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 393.94 Mbit/s
95th percentile per-packet one-way delay: 20.620 ms
Loss rate: 2.83%
-- Flow 1:
Average throughput: 393.94 Mbit/s
95th percentile per-packet one-way delay: 20.620 ms
Loss rate: 2.83%

Run 7: Report of TCP BBR — Data Link

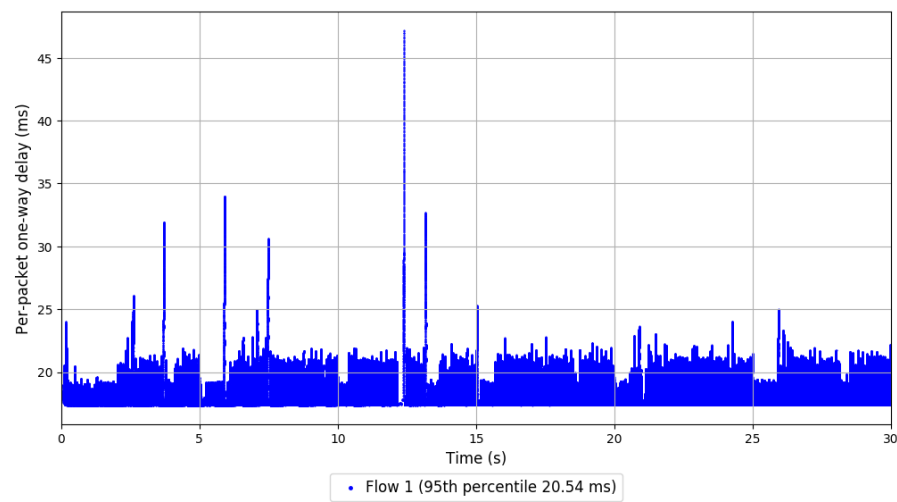
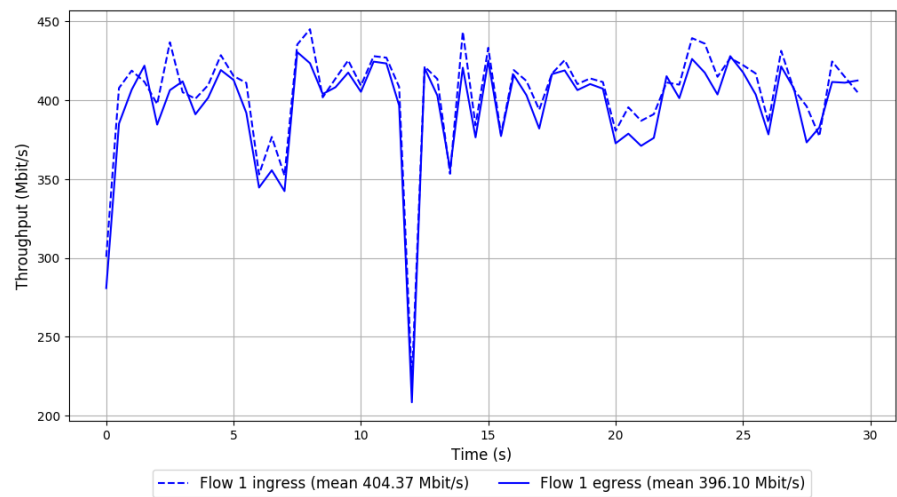


Run 8: Statistics of TCP BBR

Start at: 2018-01-09 00:37:29
End at: 2018-01-09 00:37:59
Local clock offset: -6.958 ms
Remote clock offset: -1.936 ms

Below is generated by plot.py at 2018-01-09 04:18:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 396.10 Mbit/s
95th percentile per-packet one-way delay: 20.541 ms
Loss rate: 2.05%
-- Flow 1:
Average throughput: 396.10 Mbit/s
95th percentile per-packet one-way delay: 20.541 ms
Loss rate: 2.05%

Run 8: Report of TCP BBR — Data Link

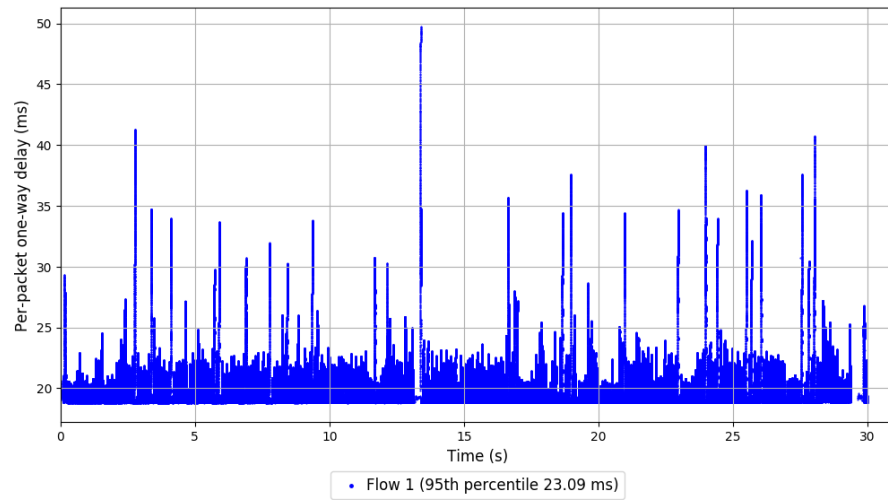
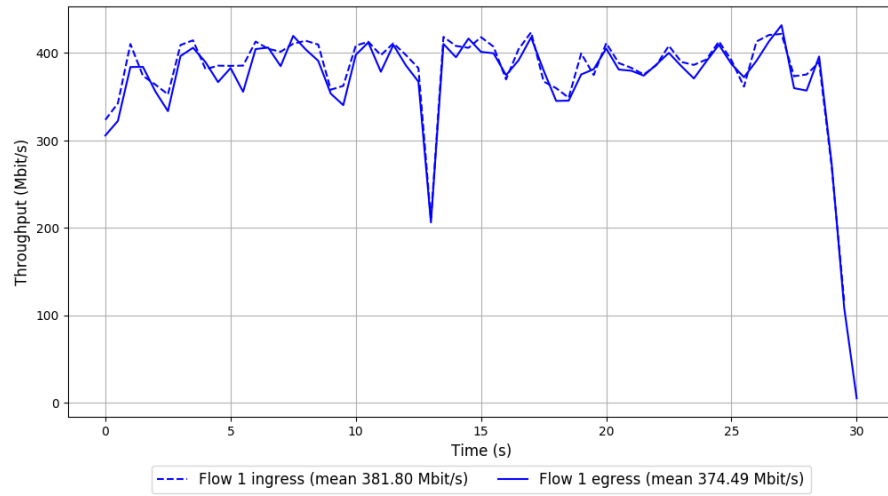


Run 9: Statistics of TCP BBR

Start at: 2018-01-09 00:57:39
End at: 2018-01-09 00:58:09
Local clock offset: -4.54 ms
Remote clock offset: -2.217 ms

Below is generated by plot.py at 2018-01-09 04:27:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 374.49 Mbit/s
95th percentile per-packet one-way delay: 23.094 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 374.49 Mbit/s
95th percentile per-packet one-way delay: 23.094 ms
Loss rate: 1.92%

Run 9: Report of TCP BBR — Data Link

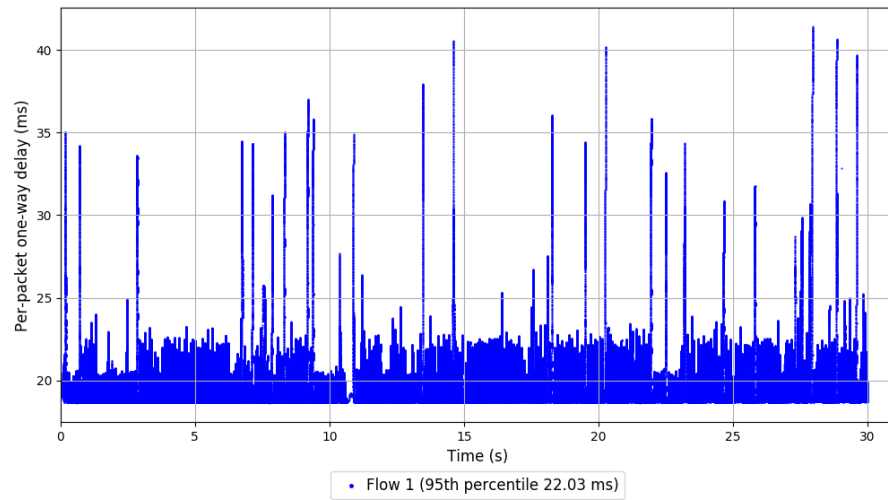
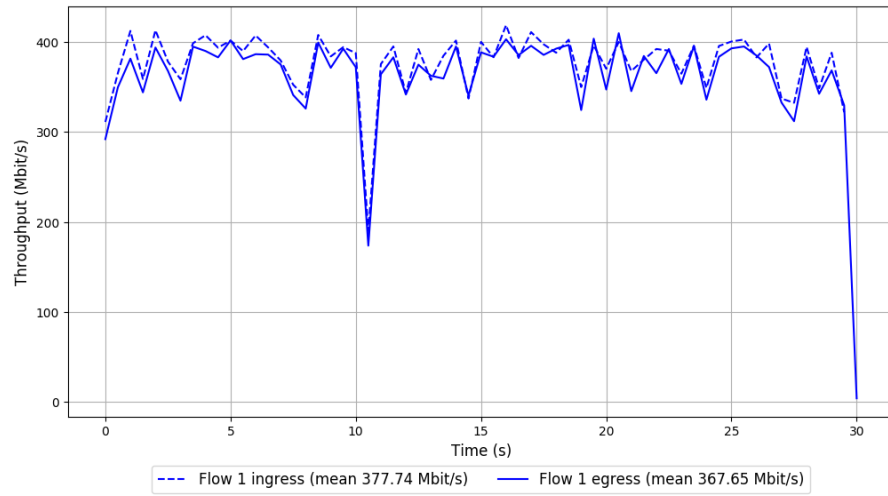


Run 10: Statistics of TCP BBR

Start at: 2018-01-09 01:17:38
End at: 2018-01-09 01:18:08
Local clock offset: -2.147 ms
Remote clock offset: -1.923 ms

Below is generated by plot.py at 2018-01-09 04:27:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 367.65 Mbit/s
95th percentile per-packet one-way delay: 22.028 ms
Loss rate: 2.67%
-- Flow 1:
Average throughput: 367.65 Mbit/s
95th percentile per-packet one-way delay: 22.028 ms
Loss rate: 2.67%

Run 10: Report of TCP BBR — Data Link

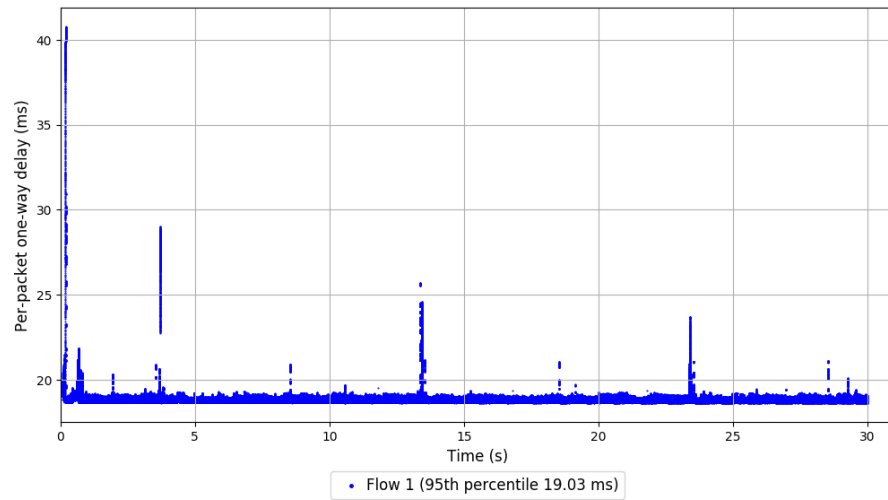
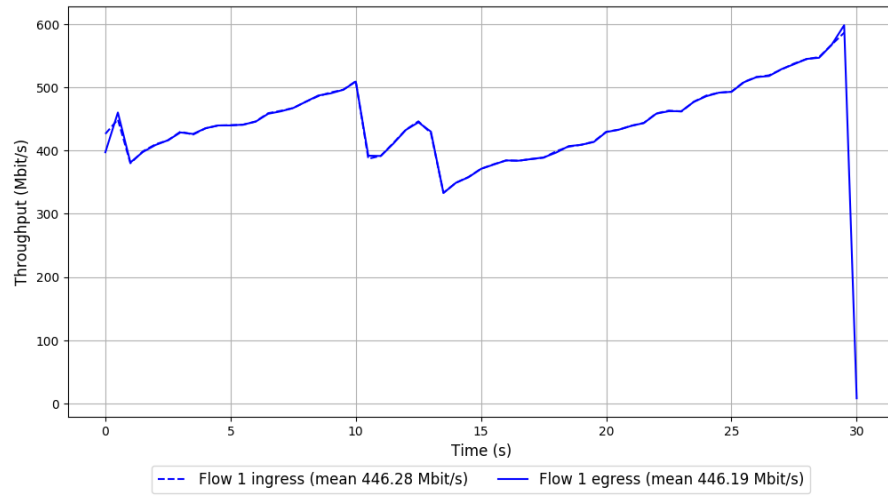


Run 1: Statistics of TCP Cubic

Start at: 2018-01-08 22:24:58
End at: 2018-01-08 22:25:28
Local clock offset: -18.055 ms
Remote clock offset: -1.894 ms

Below is generated by plot.py at 2018-01-09 04:29:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 446.19 Mbit/s
95th percentile per-packet one-way delay: 19.030 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 446.19 Mbit/s
95th percentile per-packet one-way delay: 19.030 ms
Loss rate: 0.03%

Run 1: Report of TCP Cubic — Data Link

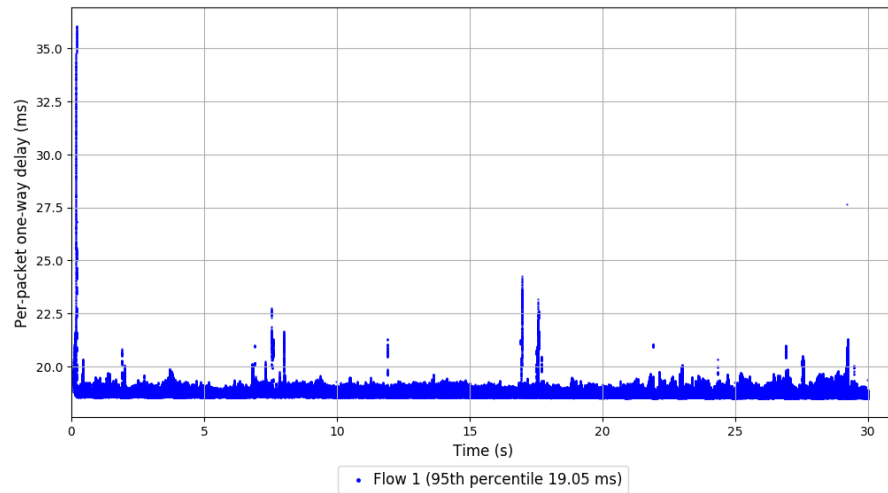
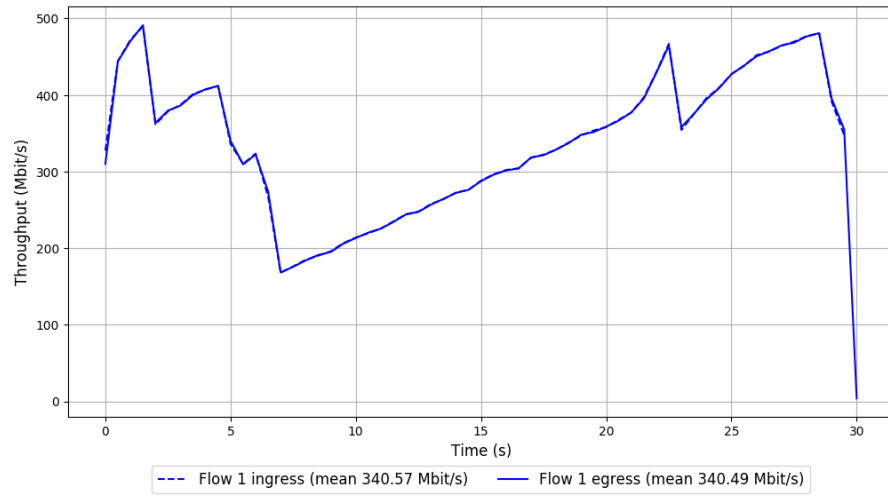


Run 2: Statistics of TCP Cubic

Start at: 2018-01-08 22:45:13
End at: 2018-01-08 22:45:43
Local clock offset: -20.256 ms
Remote clock offset: -1.878 ms

Below is generated by plot.py at 2018-01-09 04:29:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 340.49 Mbit/s
95th percentile per-packet one-way delay: 19.055 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 340.49 Mbit/s
95th percentile per-packet one-way delay: 19.055 ms
Loss rate: 0.03%

Run 2: Report of TCP Cubic — Data Link

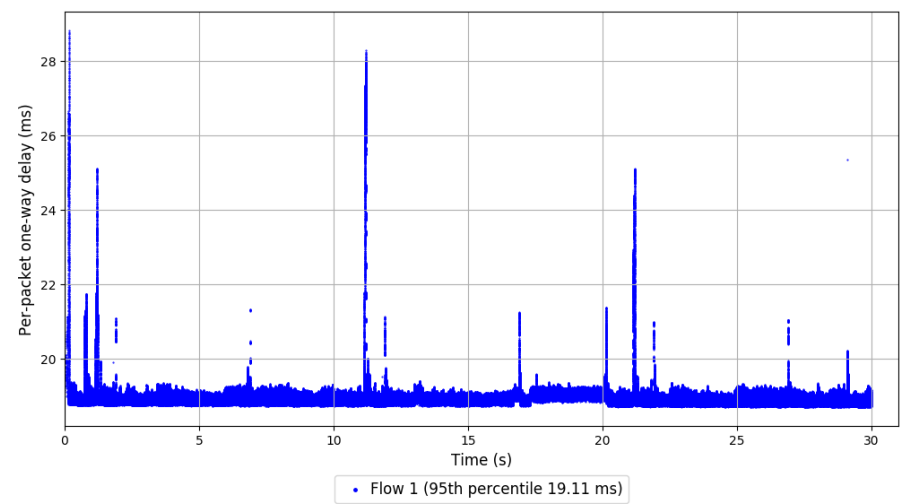
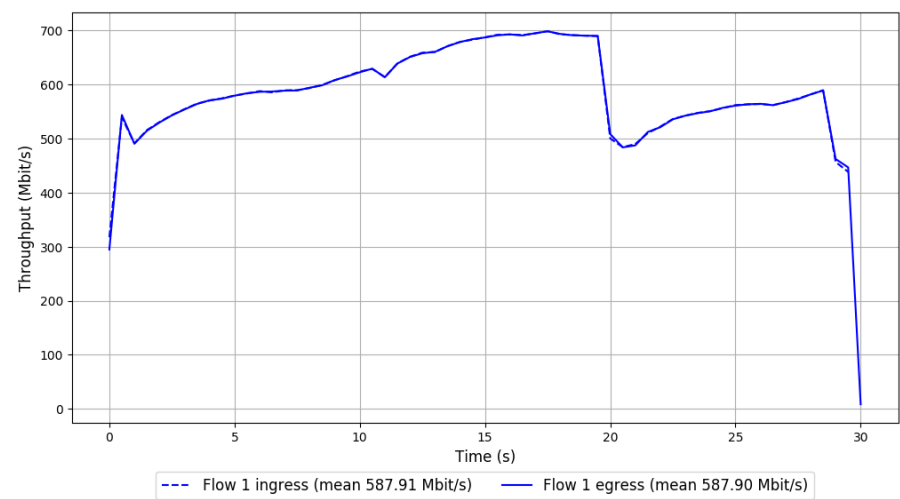


Run 3: Statistics of TCP Cubic

Start at: 2018-01-08 23:05:10
End at: 2018-01-08 23:05:40
Local clock offset: -21.973 ms
Remote clock offset: -1.399 ms

Below is generated by plot.py at 2018-01-09 04:33:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 587.90 Mbit/s
95th percentile per-packet one-way delay: 19.106 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 587.90 Mbit/s
95th percentile per-packet one-way delay: 19.106 ms
Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link

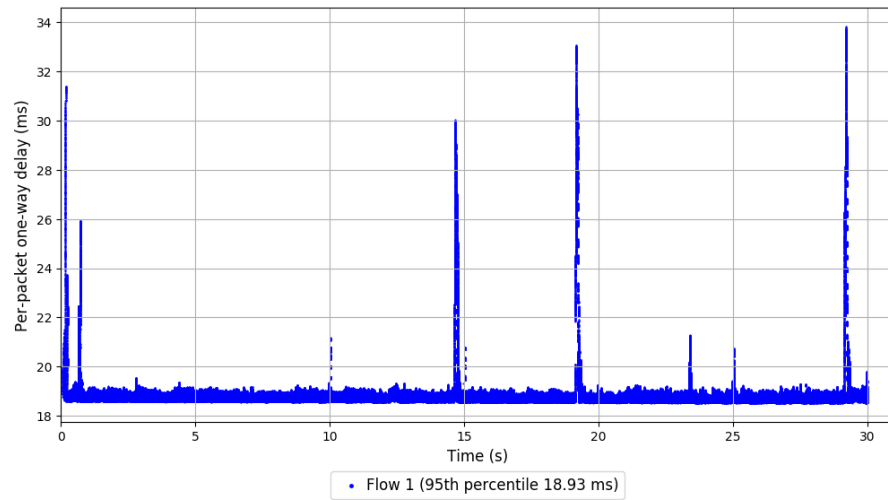
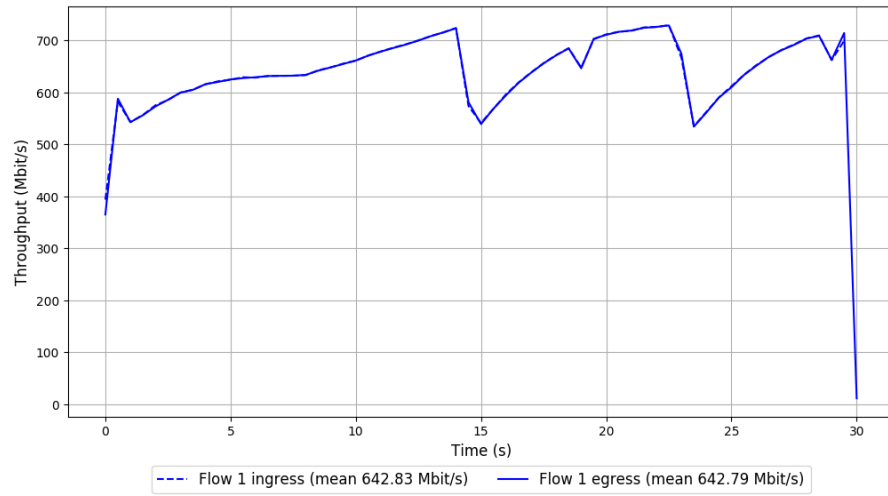


Run 4: Statistics of TCP Cubic

Start at: 2018-01-08 23:25:32
End at: 2018-01-08 23:26:02
Local clock offset: -23.979 ms
Remote clock offset: -1.638 ms

Below is generated by plot.py at 2018-01-09 04:35:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 642.79 Mbit/s
95th percentile per-packet one-way delay: 18.935 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 642.79 Mbit/s
95th percentile per-packet one-way delay: 18.935 ms
Loss rate: 0.01%

Run 4: Report of TCP Cubic — Data Link

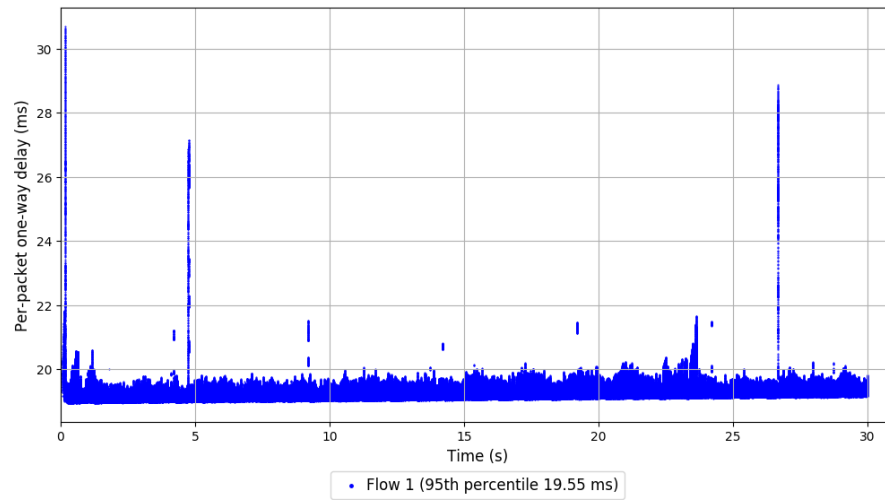
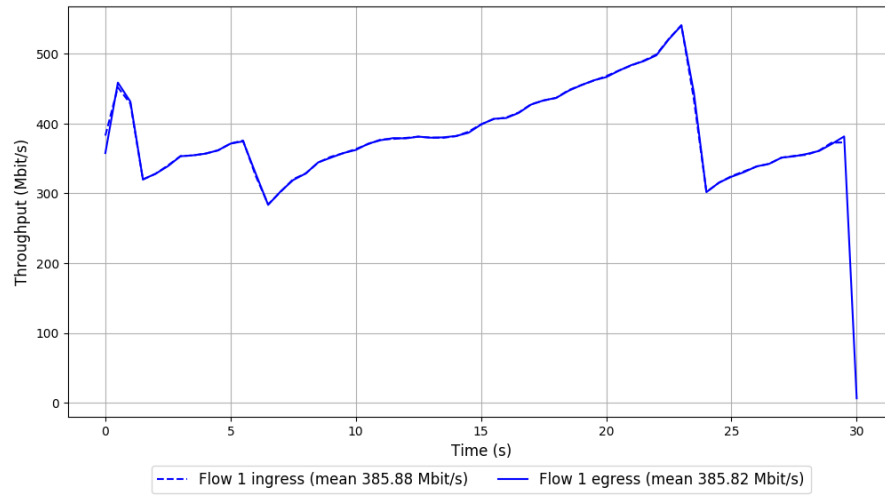


Run 5: Statistics of TCP Cubic

Start at: 2018-01-08 23:45:44
End at: 2018-01-08 23:46:14
Local clock offset: -20.157 ms
Remote clock offset: -1.445 ms

Below is generated by plot.py at 2018-01-09 04:35:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 385.82 Mbit/s
95th percentile per-packet one-way delay: 19.552 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 385.82 Mbit/s
95th percentile per-packet one-way delay: 19.552 ms
Loss rate: 0.01%

Run 5: Report of TCP Cubic — Data Link

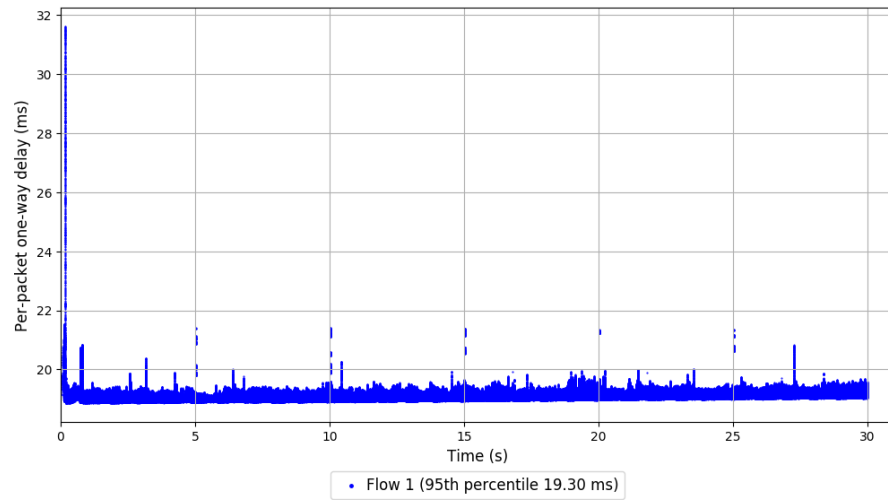
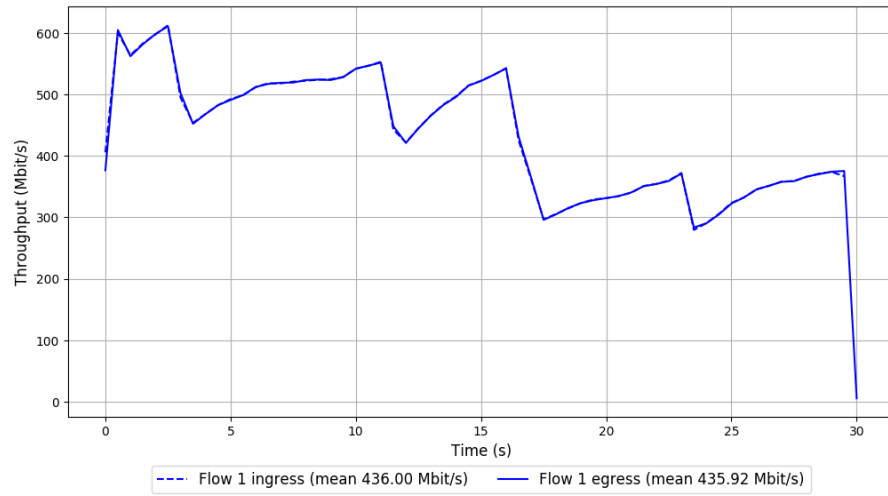


Run 6: Statistics of TCP Cubic

Start at: 2018-01-09 00:05:43
End at: 2018-01-09 00:06:13
Local clock offset: -14.338 ms
Remote clock offset: -1.167 ms

Below is generated by plot.py at 2018-01-09 04:35:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 435.92 Mbit/s
95th percentile per-packet one-way delay: 19.304 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 435.92 Mbit/s
95th percentile per-packet one-way delay: 19.304 ms
Loss rate: 0.02%

Run 6: Report of TCP Cubic — Data Link

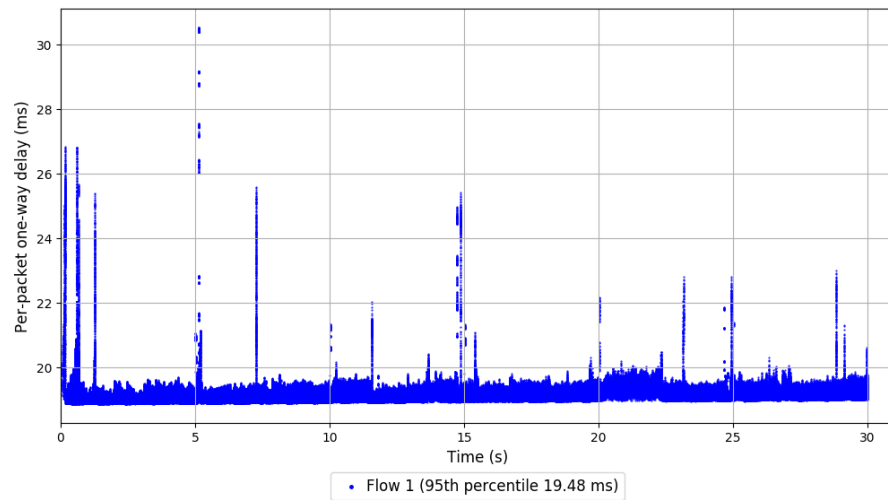
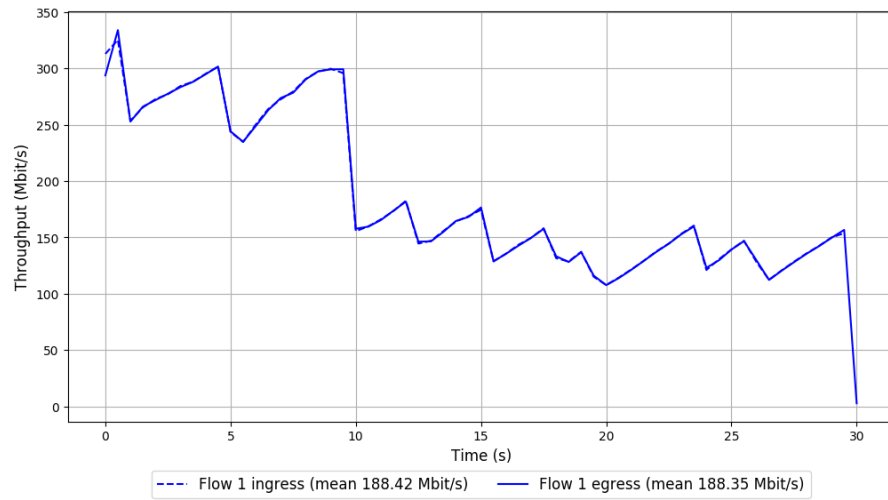


Run 7: Statistics of TCP Cubic

Start at: 2018-01-09 00:25:41
End at: 2018-01-09 00:26:11
Local clock offset: -8.874 ms
Remote clock offset: -1.564 ms

Below is generated by plot.py at 2018-01-09 04:35:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 188.35 Mbit/s
95th percentile per-packet one-way delay: 19.480 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 188.35 Mbit/s
95th percentile per-packet one-way delay: 19.480 ms
Loss rate: 0.03%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-09 00:45:48

End at: 2018-01-09 00:46:18

Local clock offset: -6.334 ms

Remote clock offset: -2.2 ms

Below is generated by plot.py at 2018-01-09 04:35:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.14 Mbit/s

95th percentile per-packet one-way delay: 17.895 ms

Loss rate: 0.02%

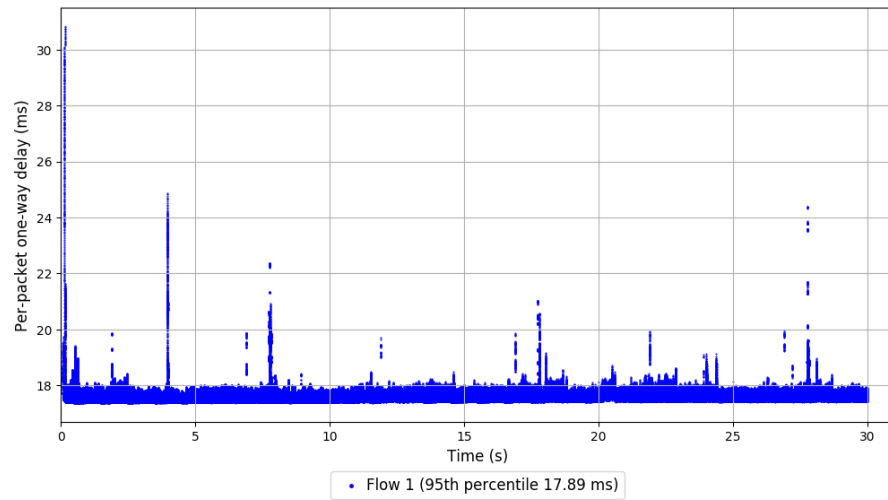
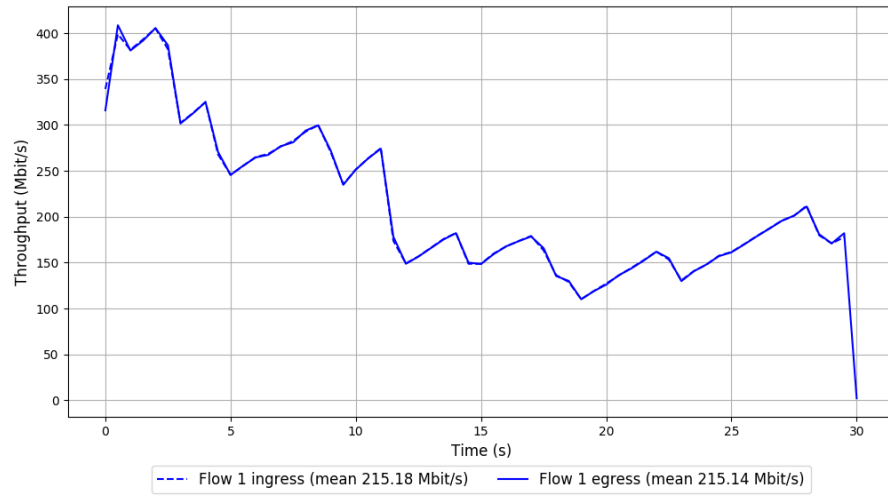
-- Flow 1:

Average throughput: 215.14 Mbit/s

95th percentile per-packet one-way delay: 17.895 ms

Loss rate: 0.02%

Run 8: Report of TCP Cubic — Data Link

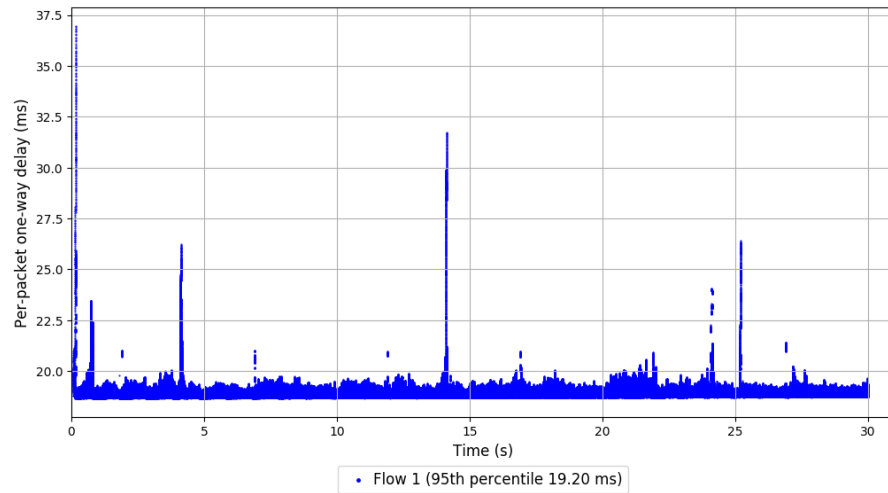
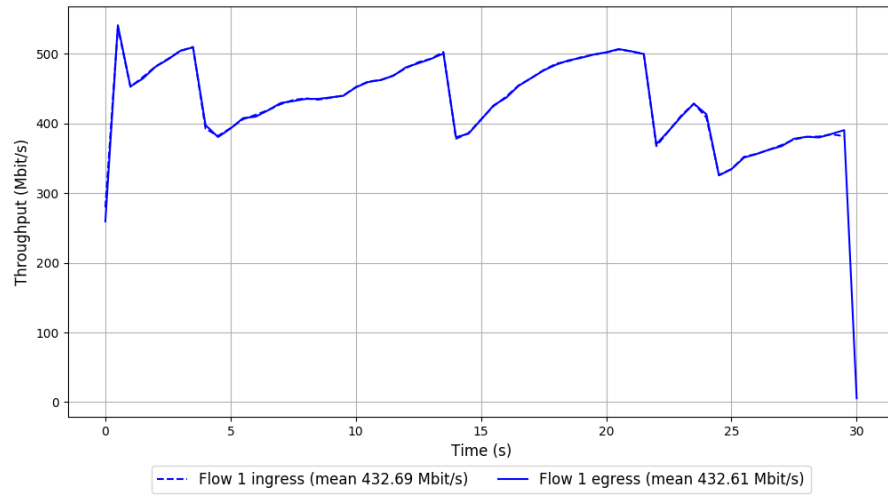


Run 9: Statistics of TCP Cubic

Start at: 2018-01-09 01:05:42
End at: 2018-01-09 01:06:12
Local clock offset: -3.31 ms
Remote clock offset: -2.245 ms

Below is generated by plot.py at 2018-01-09 04:39:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 432.61 Mbit/s
95th percentile per-packet one-way delay: 19.203 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 432.61 Mbit/s
95th percentile per-packet one-way delay: 19.203 ms
Loss rate: 0.02%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-09 01:25:49

End at: 2018-01-09 01:26:19

Local clock offset: -1.524 ms

Remote clock offset: -1.82 ms

Below is generated by plot.py at 2018-01-09 04:39:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 404.76 Mbit/s

95th percentile per-packet one-way delay: 17.828 ms

Loss rate: 0.02%

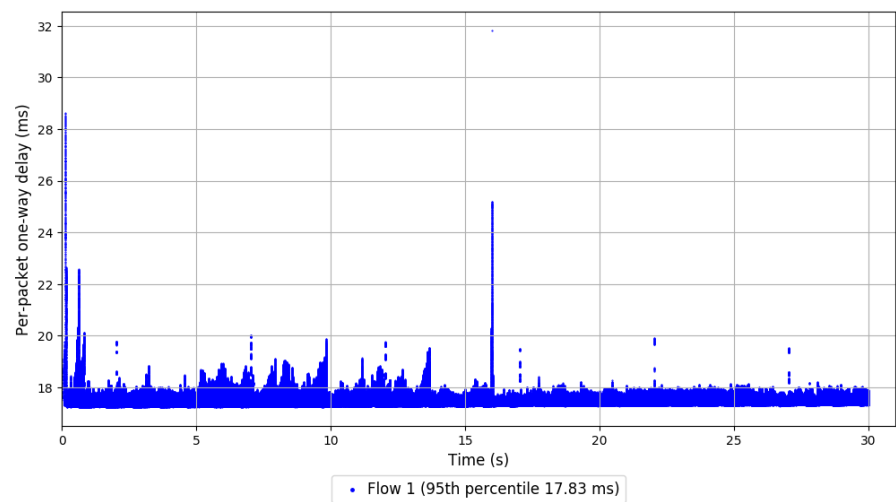
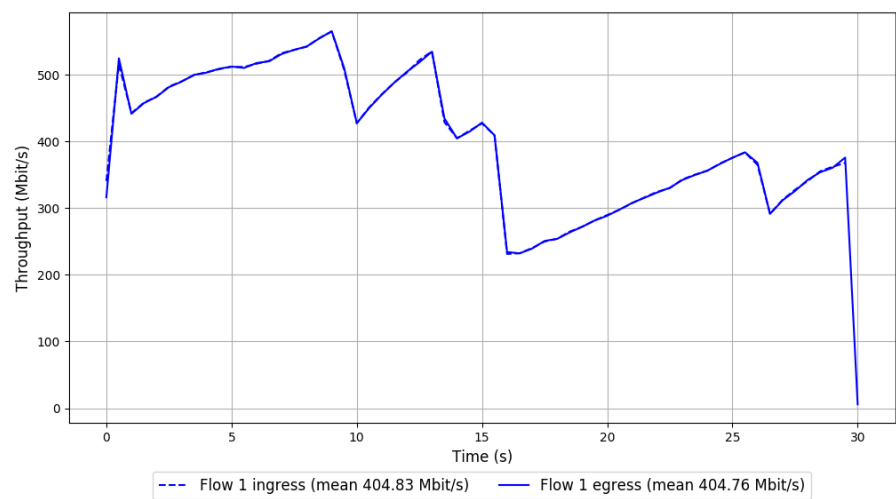
-- Flow 1:

Average throughput: 404.76 Mbit/s

95th percentile per-packet one-way delay: 17.828 ms

Loss rate: 0.02%

Run 10: Report of TCP Cubic — Data Link

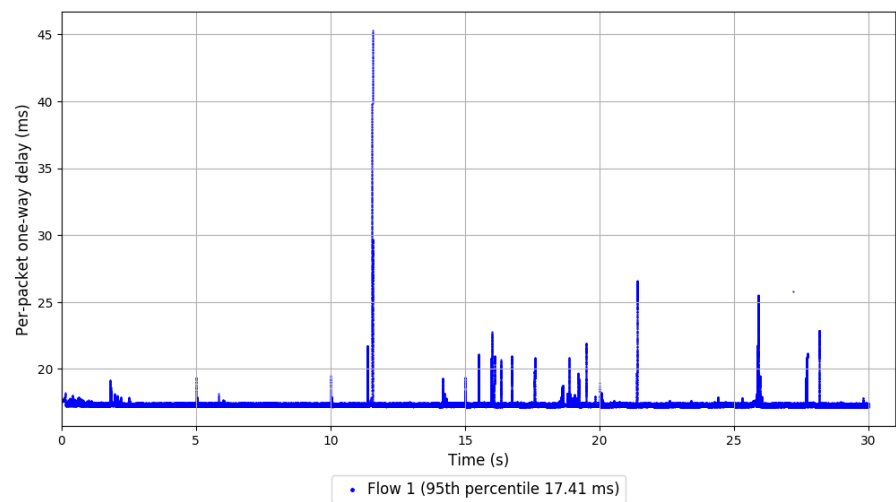
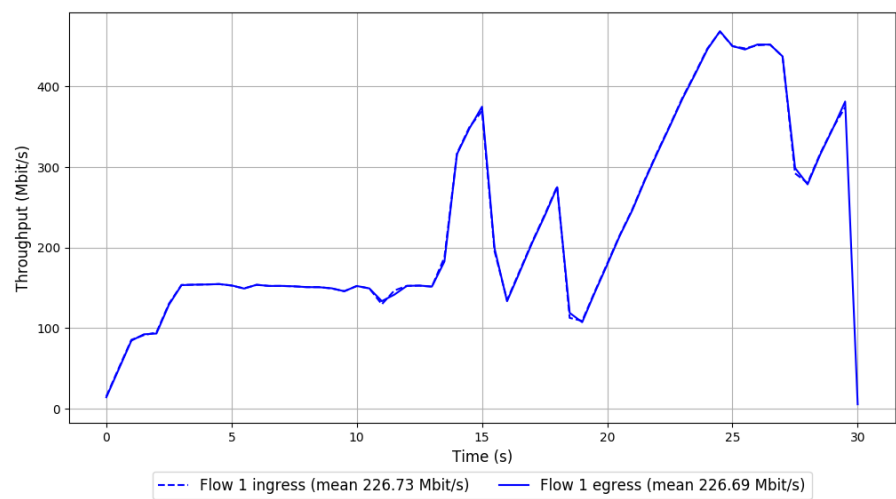


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-08 22:23:35
End at: 2018-01-08 22:24:05
Local clock offset: -17.887 ms
Remote clock offset: -1.859 ms

# Below is generated by plot.py at 2018-01-09 04:39:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.69 Mbit/s
95th percentile per-packet one-way delay: 17.410 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 226.69 Mbit/s
95th percentile per-packet one-way delay: 17.410 ms
Loss rate: 0.02%
```


Run 1: Report of LEDBAT — Data Link

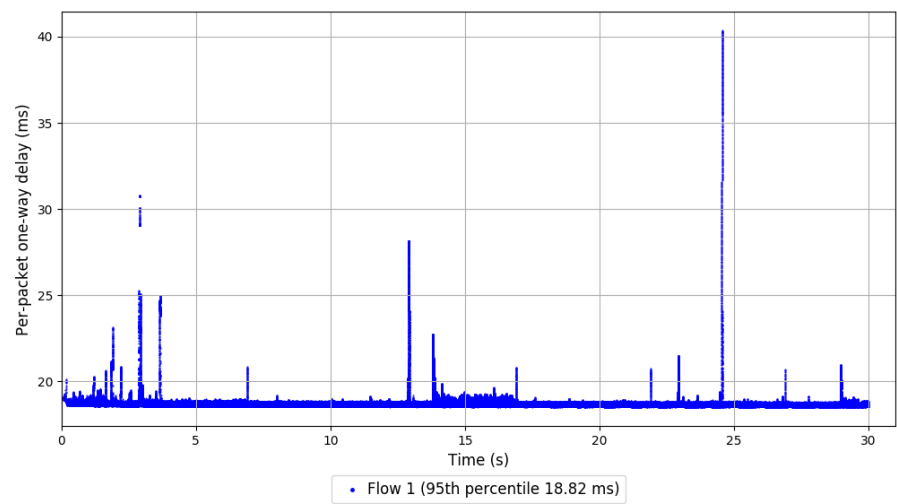
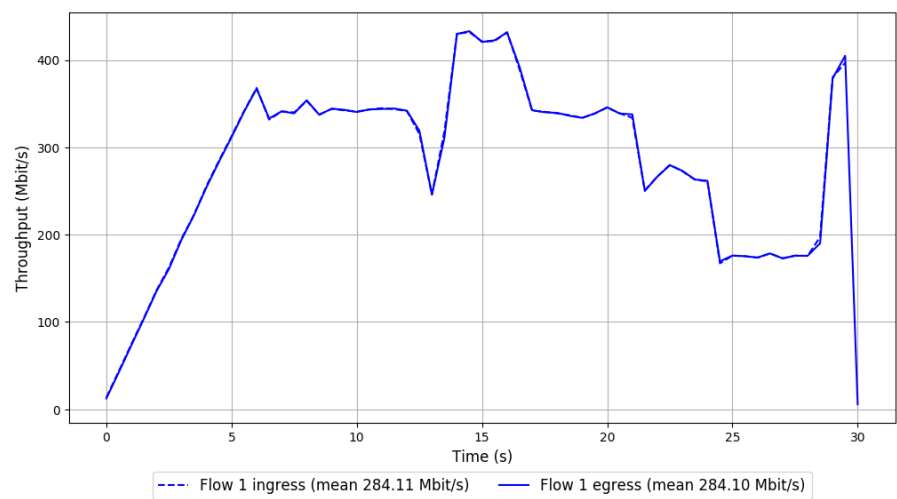


Run 2: Statistics of LEDBAT

Start at: 2018-01-08 22:43:48
End at: 2018-01-08 22:44:18
Local clock offset: -20.13 ms
Remote clock offset: -1.895 ms

Below is generated by plot.py at 2018-01-09 04:39:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 284.10 Mbit/s
95th percentile per-packet one-way delay: 18.815 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 284.10 Mbit/s
95th percentile per-packet one-way delay: 18.815 ms
Loss rate: 0.01%

Run 2: Report of LEDBAT — Data Link

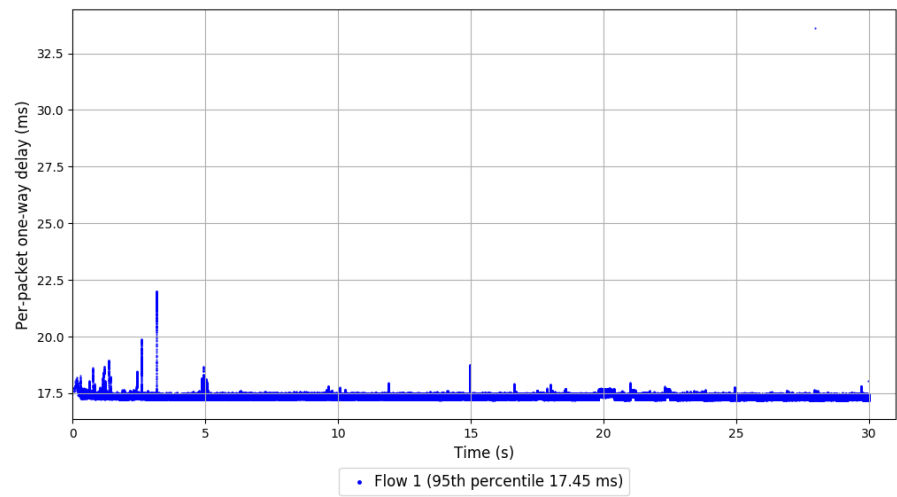
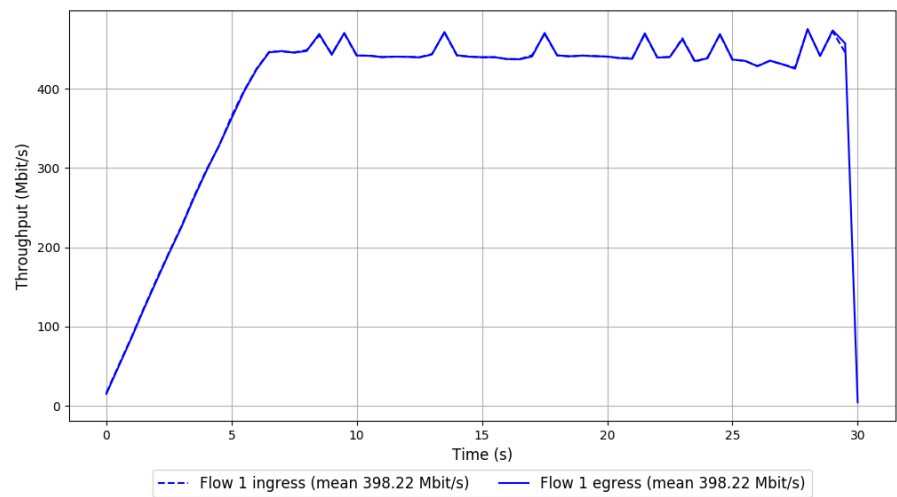


Run 3: Statistics of LEDBAT

Start at: 2018-01-08 23:03:38
End at: 2018-01-08 23:04:09
Local clock offset: -21.868 ms
Remote clock offset: -1.507 ms

Below is generated by plot.py at 2018-01-09 04:43:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 398.22 Mbit/s
95th percentile per-packet one-way delay: 17.450 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 398.22 Mbit/s
95th percentile per-packet one-way delay: 17.450 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

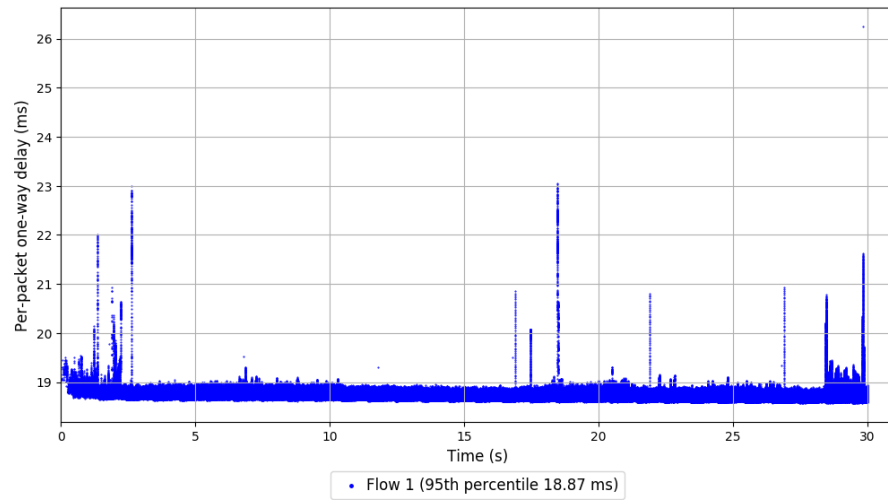
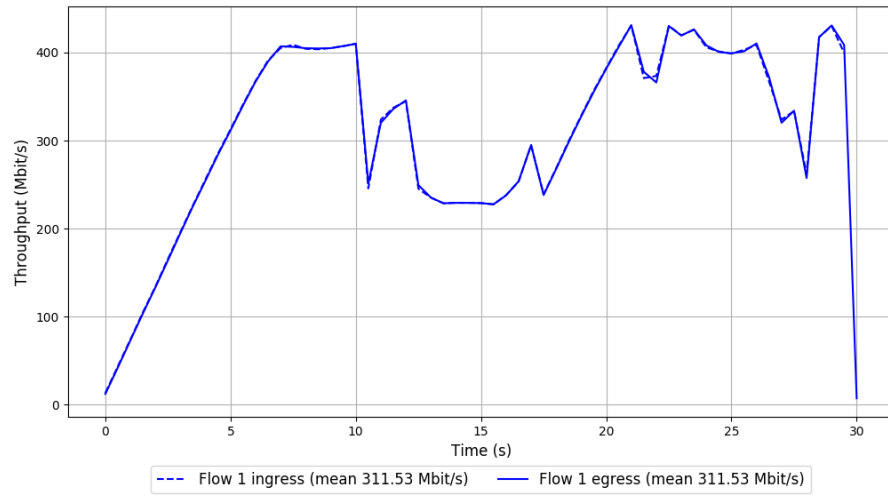


Run 4: Statistics of LEDBAT

Start at: 2018-01-08 23:24:05
End at: 2018-01-08 23:24:35
Local clock offset: -23.868 ms
Remote clock offset: -1.675 ms

Below is generated by plot.py at 2018-01-09 04:43:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 311.53 Mbit/s
95th percentile per-packet one-way delay: 18.868 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 311.53 Mbit/s
95th percentile per-packet one-way delay: 18.868 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

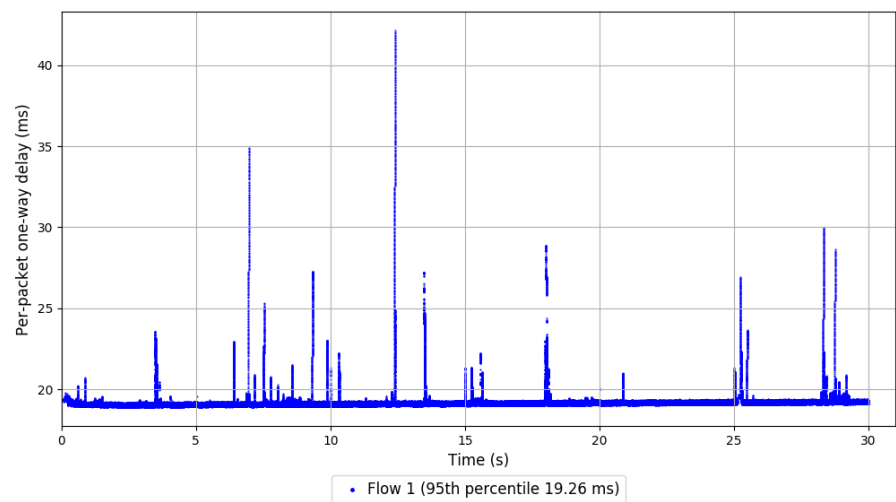
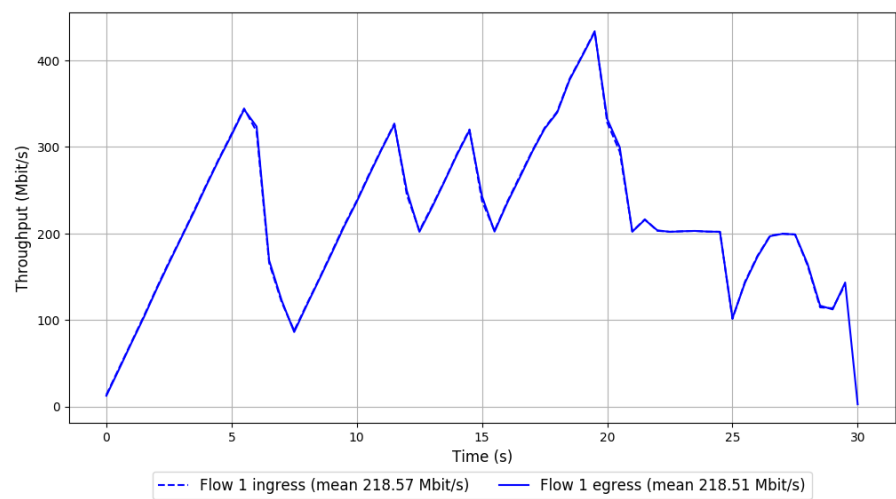


Run 5: Statistics of LEDBAT

Start at: 2018-01-08 23:44:22
End at: 2018-01-08 23:44:52
Local clock offset: -20.718 ms
Remote clock offset: -1.526 ms

Below is generated by plot.py at 2018-01-09 04:43:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 218.51 Mbit/s
95th percentile per-packet one-way delay: 19.262 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 218.51 Mbit/s
95th percentile per-packet one-way delay: 19.262 ms
Loss rate: 0.03%

Run 5: Report of LEDBAT — Data Link

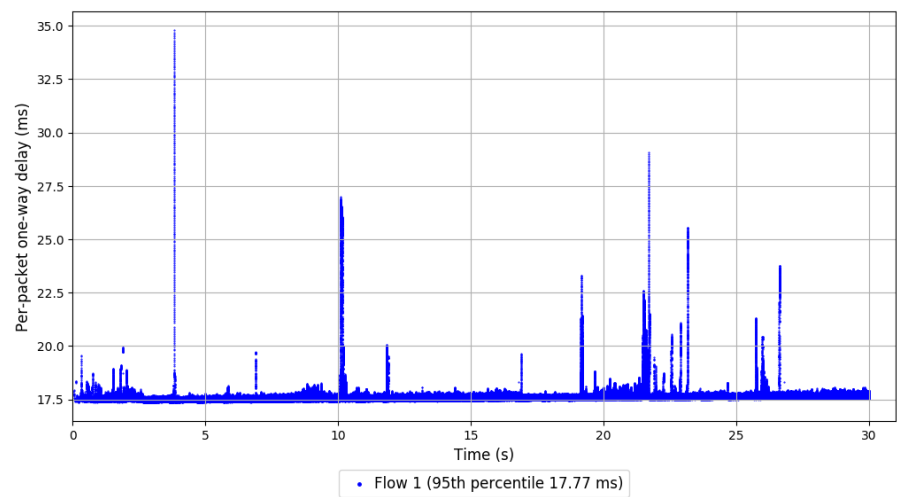
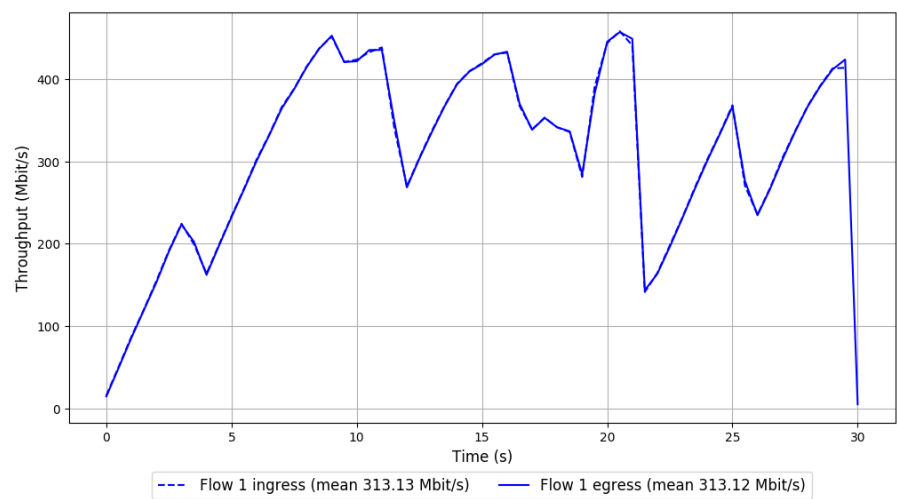


Run 6: Statistics of LEDBAT

Start at: 2018-01-09 00:04:16
End at: 2018-01-09 00:04:46
Local clock offset: -14.724 ms
Remote clock offset: -1.092 ms

Below is generated by plot.py at 2018-01-09 04:43:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 313.12 Mbit/s
95th percentile per-packet one-way delay: 17.771 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 313.12 Mbit/s
95th percentile per-packet one-way delay: 17.771 ms
Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

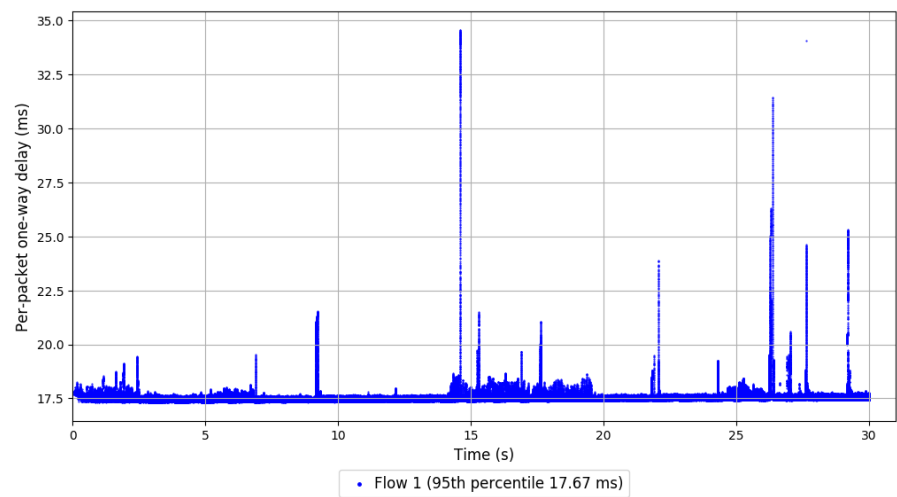
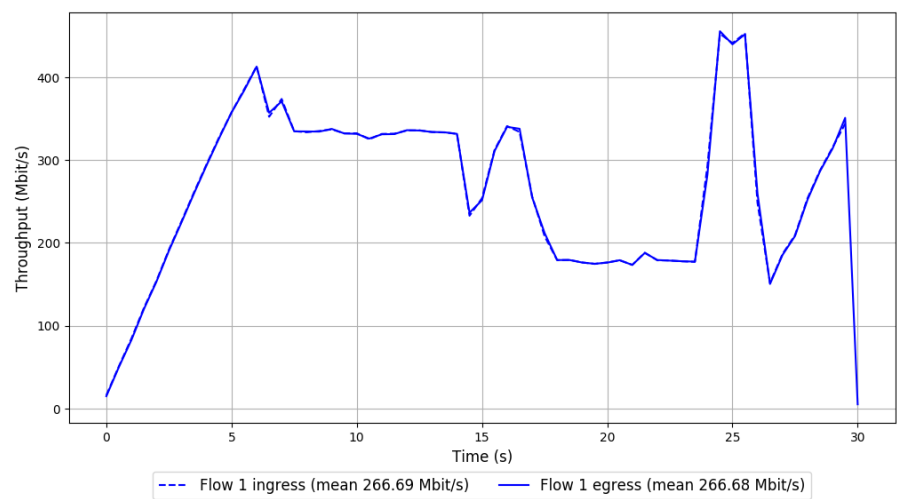


Run 7: Statistics of LEDBAT

Start at: 2018-01-09 00:24:17
End at: 2018-01-09 00:24:47
Local clock offset: -9.077 ms
Remote clock offset: -1.524 ms

Below is generated by plot.py at 2018-01-09 04:43:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 266.68 Mbit/s
95th percentile per-packet one-way delay: 17.674 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 266.68 Mbit/s
95th percentile per-packet one-way delay: 17.674 ms
Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link

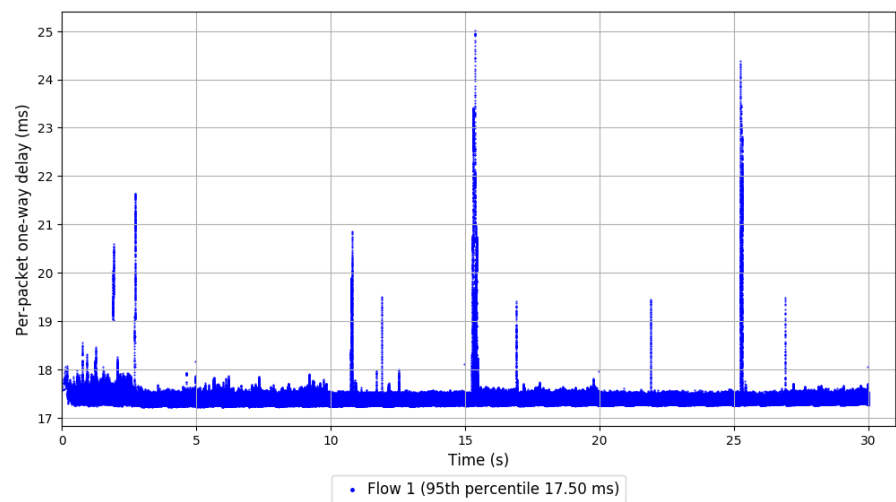
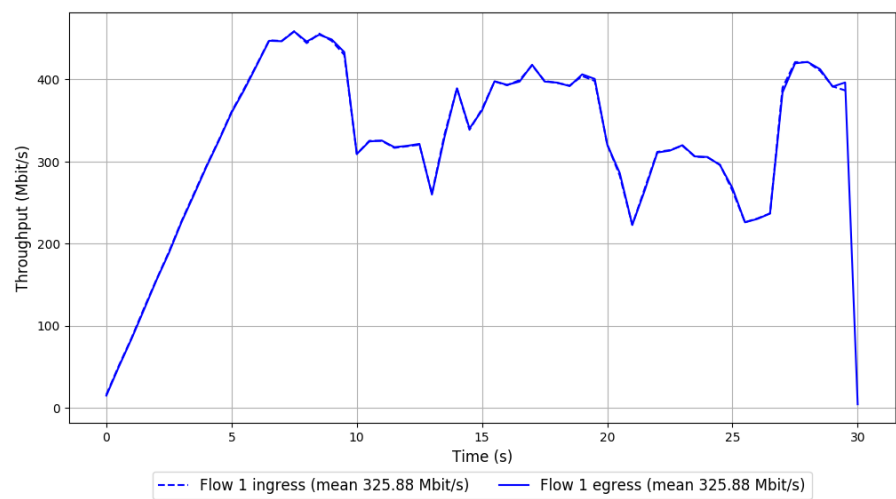


Run 8: Statistics of LEDBAT

Start at: 2018-01-09 00:44:21
End at: 2018-01-09 00:44:51
Local clock offset: -6.349 ms
Remote clock offset: -2.236 ms

Below is generated by plot.py at 2018-01-09 04:47:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 325.88 Mbit/s
95th percentile per-packet one-way delay: 17.502 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 325.88 Mbit/s
95th percentile per-packet one-way delay: 17.502 ms
Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-09 01:04:15

End at: 2018-01-09 01:04:45

Local clock offset: -3.448 ms

Remote clock offset: -2.24 ms

Below is generated by plot.py at 2018-01-09 04:47:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 301.83 Mbit/s

95th percentile per-packet one-way delay: 18.882 ms

Loss rate: 0.00%

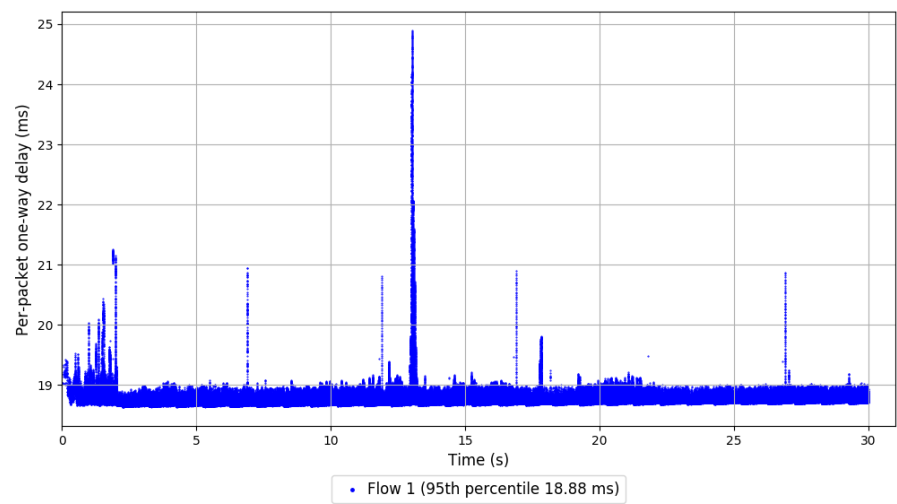
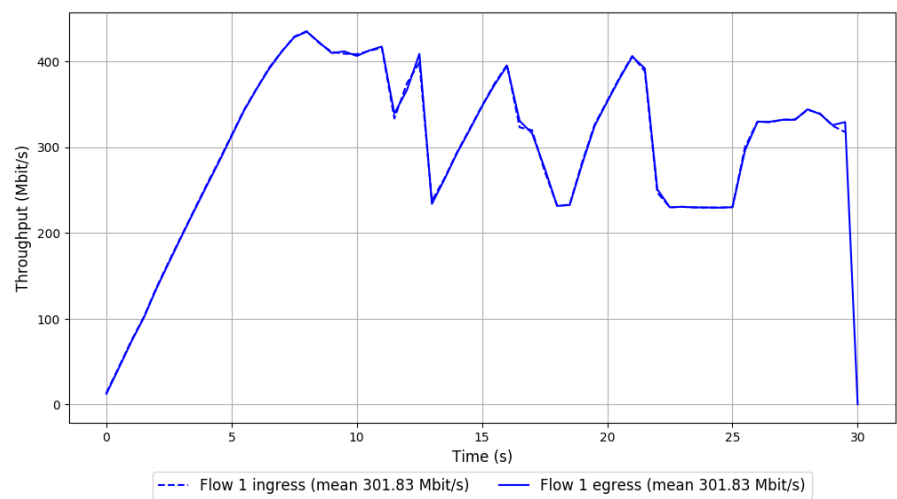
-- Flow 1:

Average throughput: 301.83 Mbit/s

95th percentile per-packet one-way delay: 18.882 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link

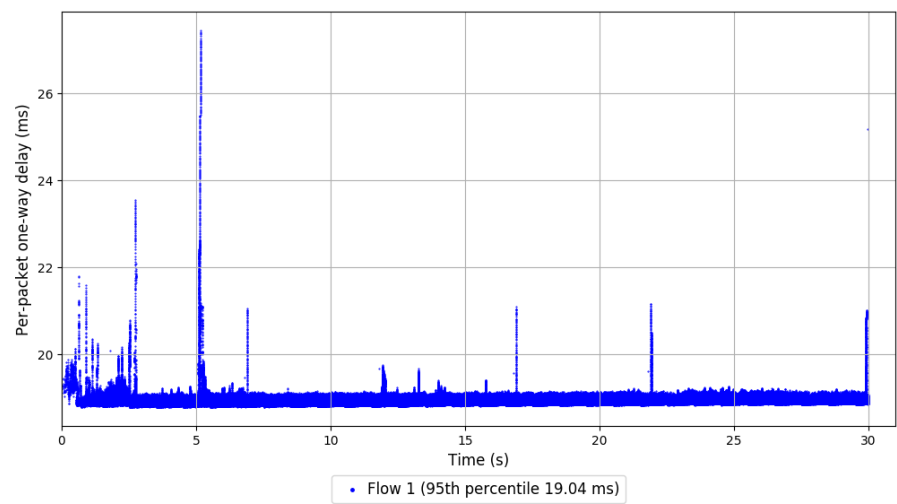
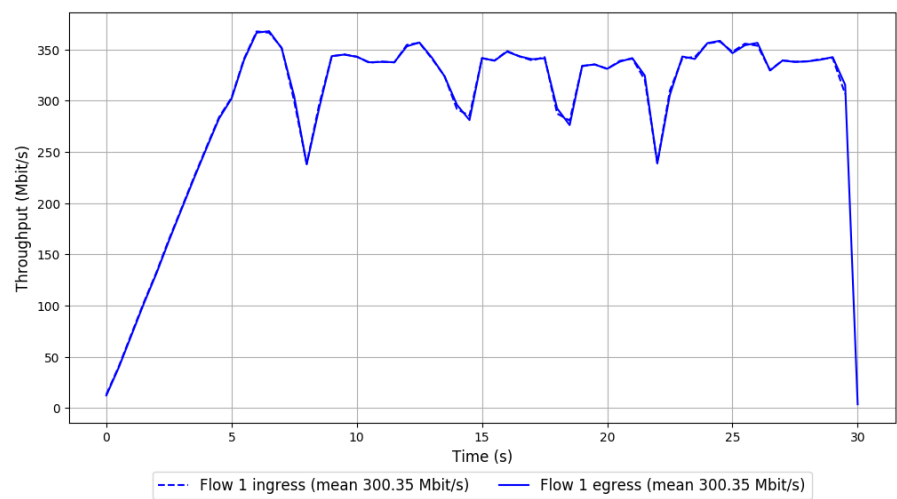


Run 10: Statistics of LEDBAT

Start at: 2018-01-09 01:24:23
End at: 2018-01-09 01:24:53
Local clock offset: -1.766 ms
Remote clock offset: -1.729 ms

Below is generated by plot.py at 2018-01-09 04:48:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 300.35 Mbit/s
95th percentile per-packet one-way delay: 19.037 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 300.35 Mbit/s
95th percentile per-packet one-way delay: 19.037 ms
Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

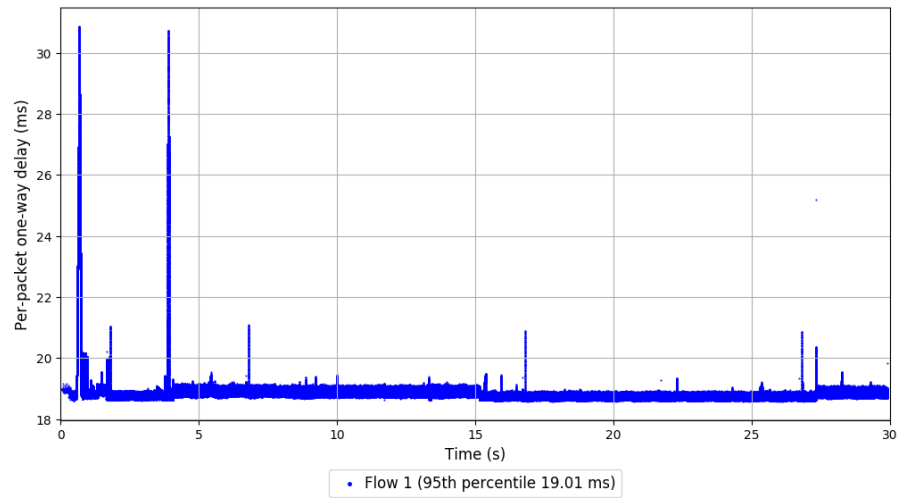
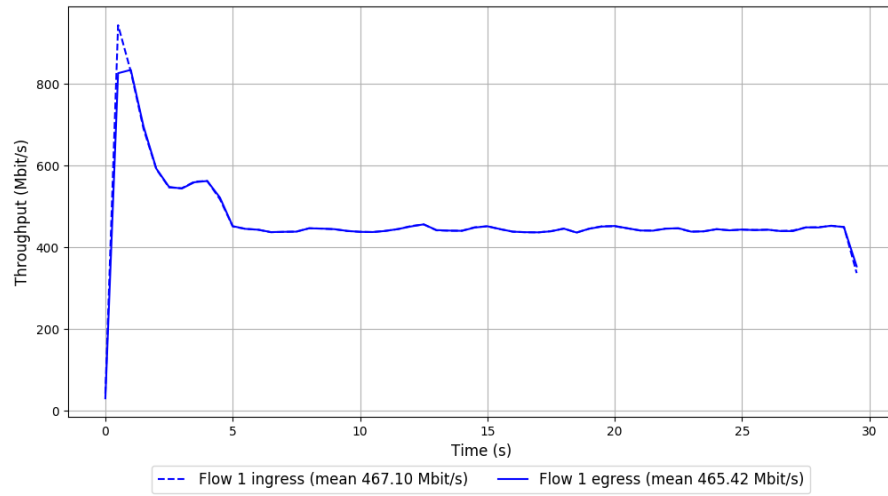


Run 1: Statistics of PCC

Start at: 2018-01-08 22:15:21
End at: 2018-01-08 22:15:51
Local clock offset: -16.958 ms
Remote clock offset: -1.497 ms

Below is generated by plot.py at 2018-01-09 04:52:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 465.42 Mbit/s
95th percentile per-packet one-way delay: 19.011 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 465.42 Mbit/s
95th percentile per-packet one-way delay: 19.011 ms
Loss rate: 0.36%

Run 1: Report of PCC — Data Link

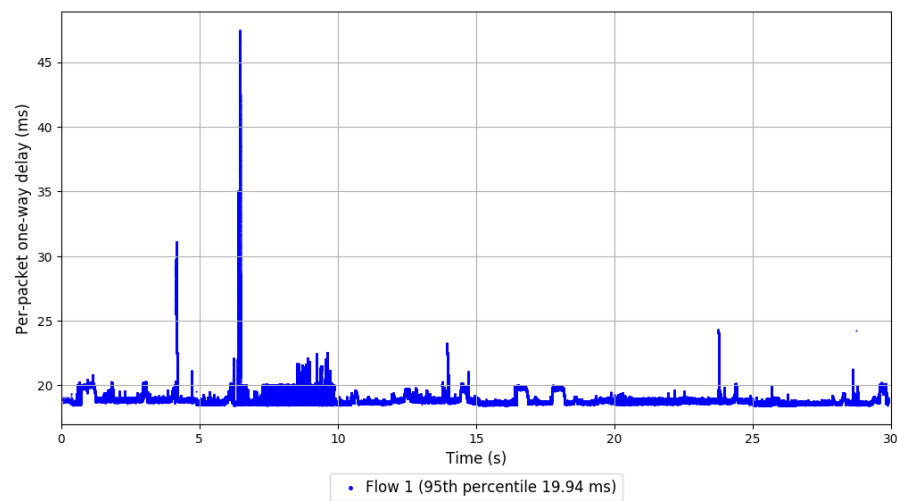
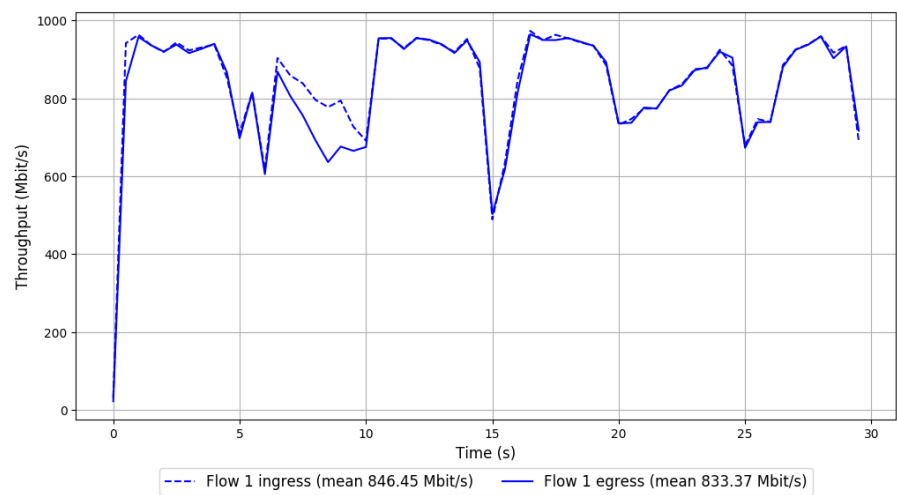


Run 2: Statistics of PCC

Start at: 2018-01-08 22:35:27
End at: 2018-01-08 22:35:57
Local clock offset: -19.317 ms
Remote clock offset: -1.963 ms

Below is generated by plot.py at 2018-01-09 05:05:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 833.37 Mbit/s
95th percentile per-packet one-way delay: 19.939 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 833.37 Mbit/s
95th percentile per-packet one-way delay: 19.939 ms
Loss rate: 1.55%

Run 2: Report of PCC — Data Link

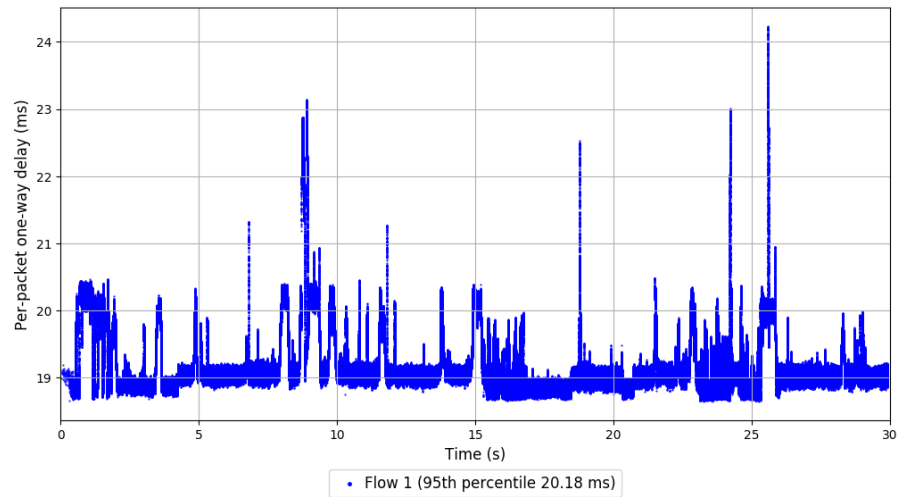
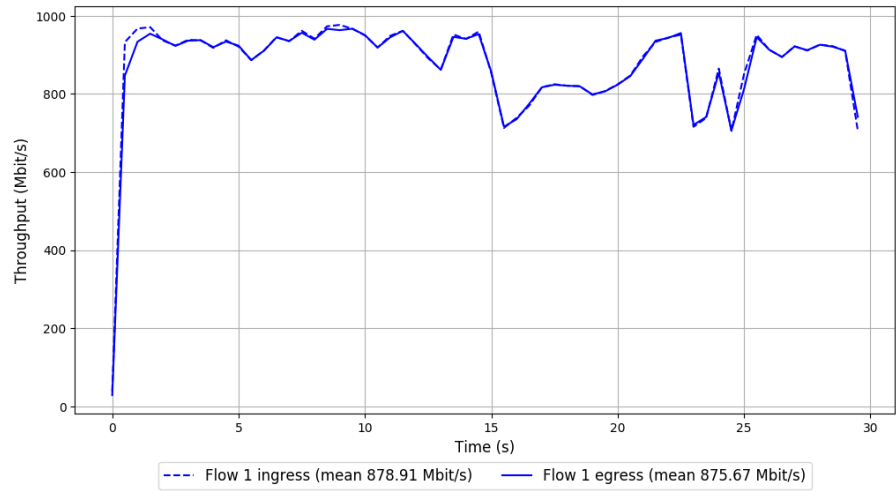


Run 3: Statistics of PCC

Start at: 2018-01-08 22:55:32
End at: 2018-01-08 22:56:02
Local clock offset: -21.384 ms
Remote clock offset: -1.578 ms

Below is generated by plot.py at 2018-01-09 05:08:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 875.67 Mbit/s
95th percentile per-packet one-way delay: 20.181 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 875.67 Mbit/s
95th percentile per-packet one-way delay: 20.181 ms
Loss rate: 0.37%

Run 3: Report of PCC — Data Link

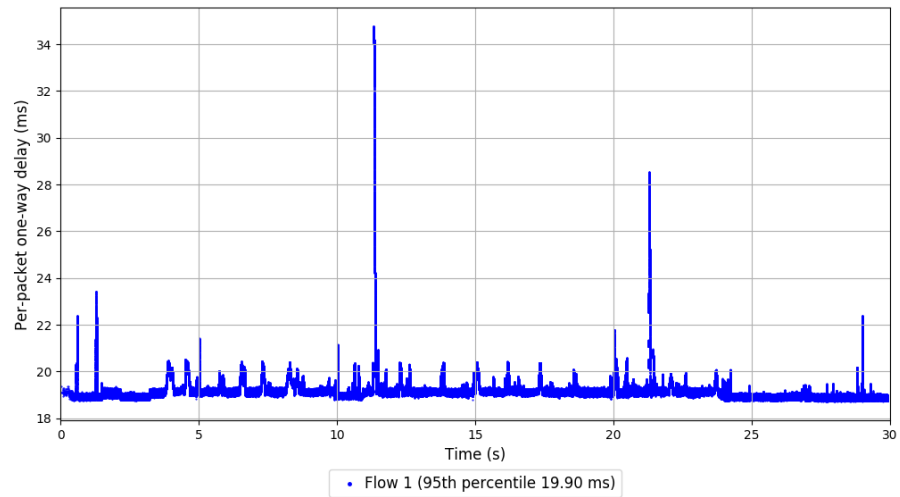
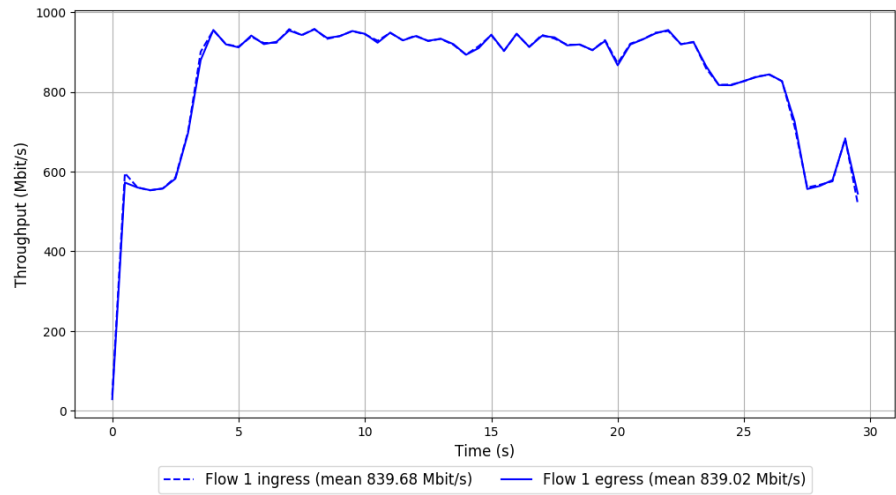


Run 4: Statistics of PCC

Start at: 2018-01-08 23:15:40
End at: 2018-01-08 23:16:10
Local clock offset: -22.862 ms
Remote clock offset: -1.413 ms

Below is generated by plot.py at 2018-01-09 05:08:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 839.02 Mbit/s
95th percentile per-packet one-way delay: 19.899 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 839.02 Mbit/s
95th percentile per-packet one-way delay: 19.899 ms
Loss rate: 0.08%

Run 4: Report of PCC — Data Link

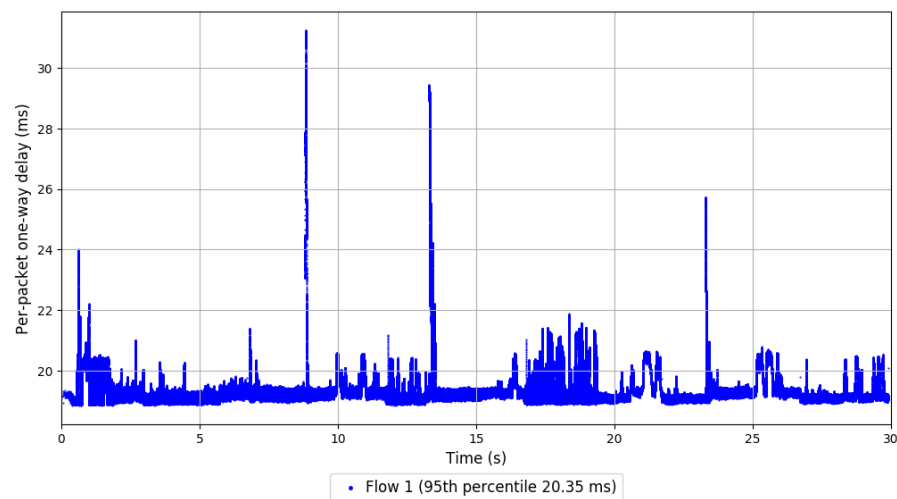
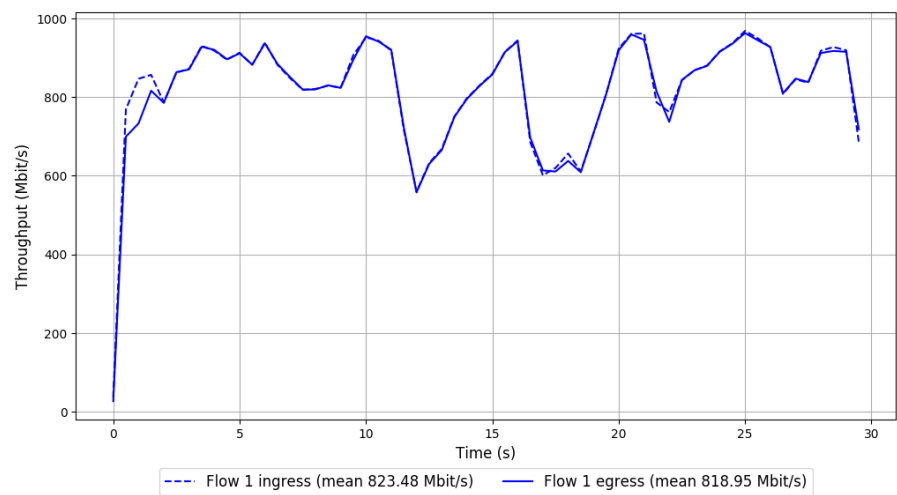


Run 5: Statistics of PCC

Start at: 2018-01-08 23:36:07
End at: 2018-01-08 23:36:37
Local clock offset: -23.82 ms
Remote clock offset: -1.593 ms

Below is generated by plot.py at 2018-01-09 05:08:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 818.95 Mbit/s
95th percentile per-packet one-way delay: 20.353 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 818.95 Mbit/s
95th percentile per-packet one-way delay: 20.353 ms
Loss rate: 0.55%

Run 5: Report of PCC — Data Link

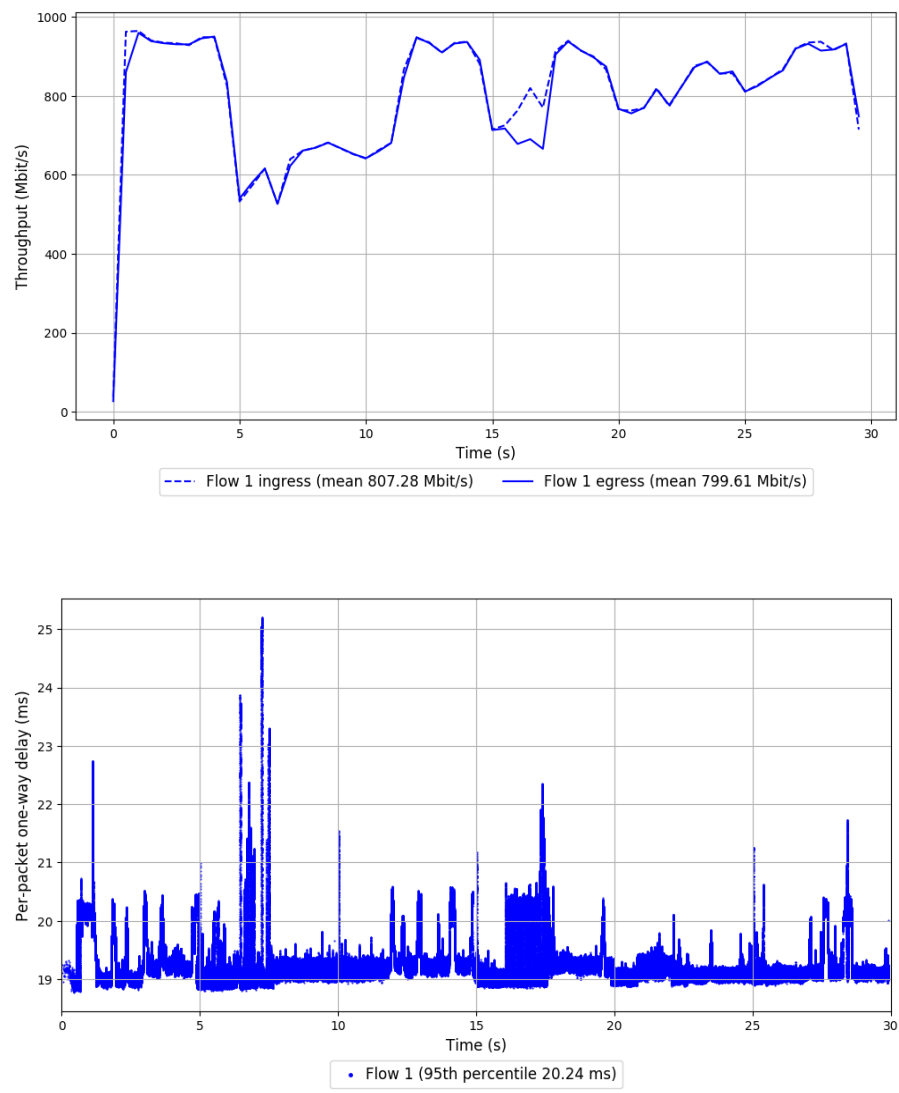


Run 6: Statistics of PCC

Start at: 2018-01-08 23:56:06
End at: 2018-01-08 23:56:36
Local clock offset: -16.5 ms
Remote clock offset: -1.152 ms

Below is generated by plot.py at 2018-01-09 05:09:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 799.61 Mbit/s
95th percentile per-packet one-way delay: 20.241 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 799.61 Mbit/s
95th percentile per-packet one-way delay: 20.241 ms
Loss rate: 0.95%

Run 6: Report of PCC — Data Link

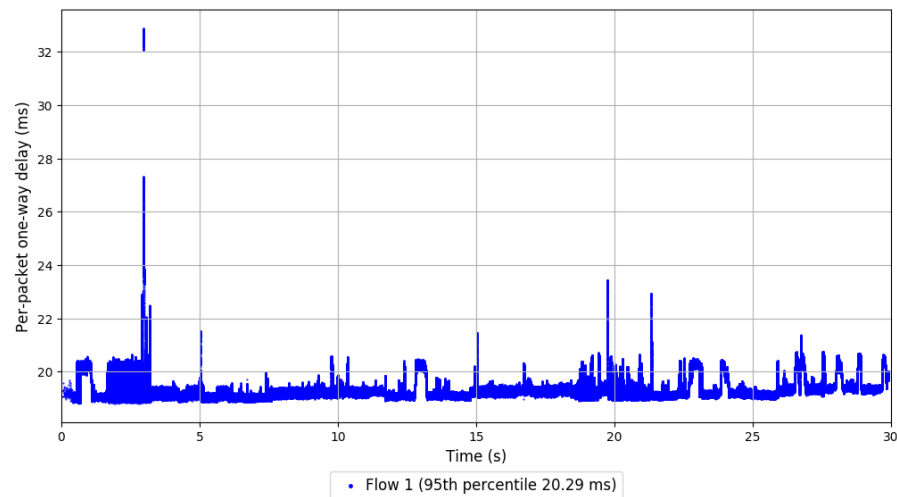
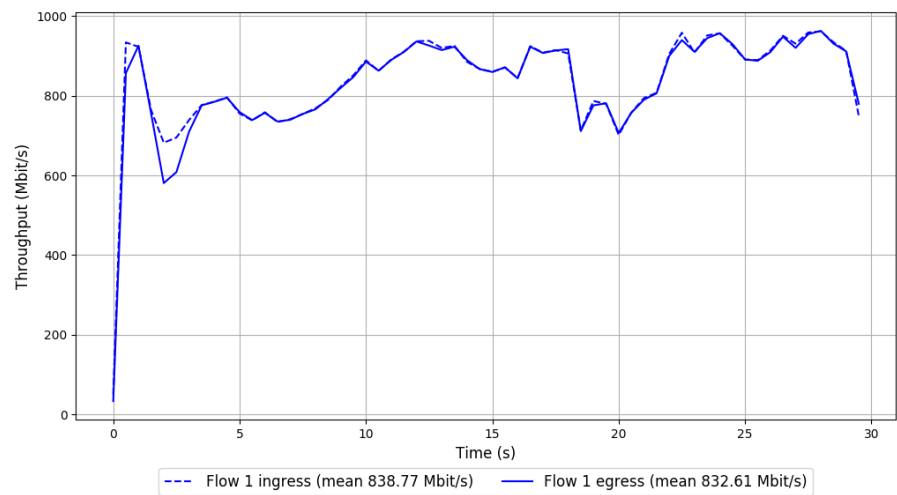


Run 7: Statistics of PCC

Start at: 2018-01-09 00:16:03
End at: 2018-01-09 00:16:33
Local clock offset: -11.237 ms
Remote clock offset: -1.365 ms

Below is generated by plot.py at 2018-01-09 05:11:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 832.61 Mbit/s
95th percentile per-packet one-way delay: 20.288 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 832.61 Mbit/s
95th percentile per-packet one-way delay: 20.288 ms
Loss rate: 0.74%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-09 00:35:54

End at: 2018-01-09 00:36:24

Local clock offset: -7.215 ms

Remote clock offset: -1.87 ms

Below is generated by plot.py at 2018-01-09 05:11:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 845.77 Mbit/s

95th percentile per-packet one-way delay: 18.703 ms

Loss rate: 0.16%

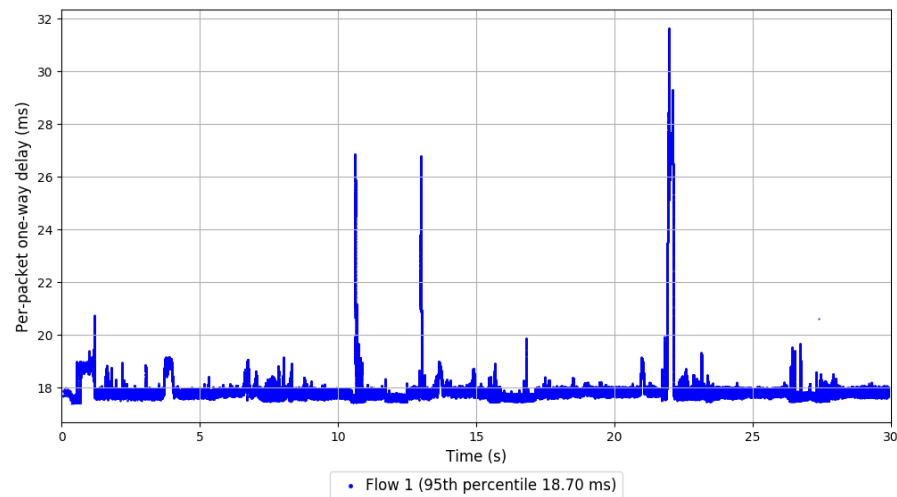
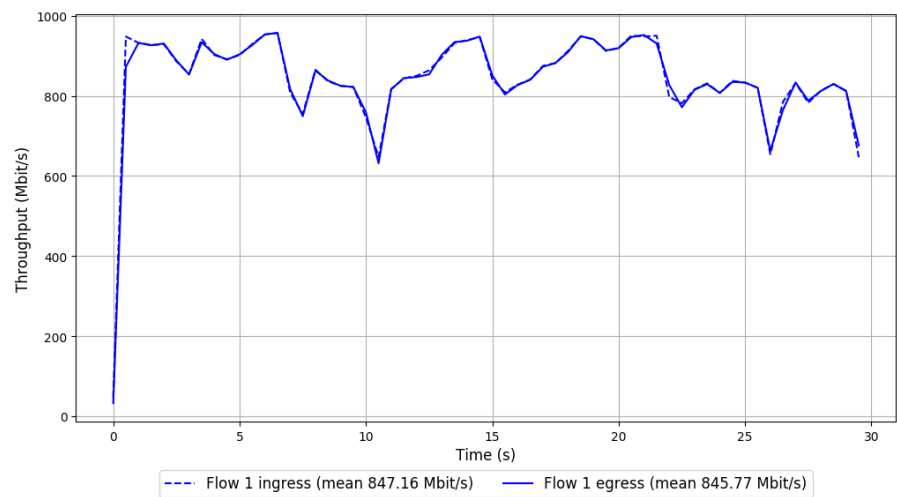
-- Flow 1:

Average throughput: 845.77 Mbit/s

95th percentile per-packet one-way delay: 18.703 ms

Loss rate: 0.16%

Run 8: Report of PCC — Data Link

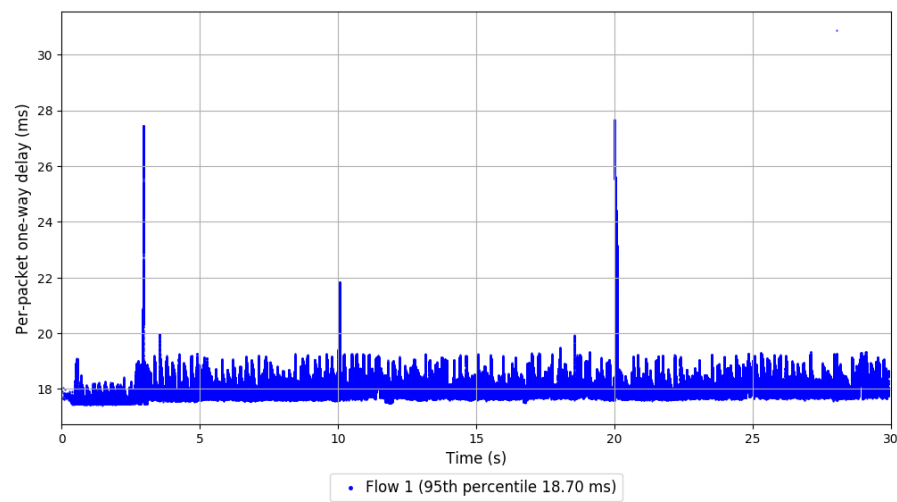
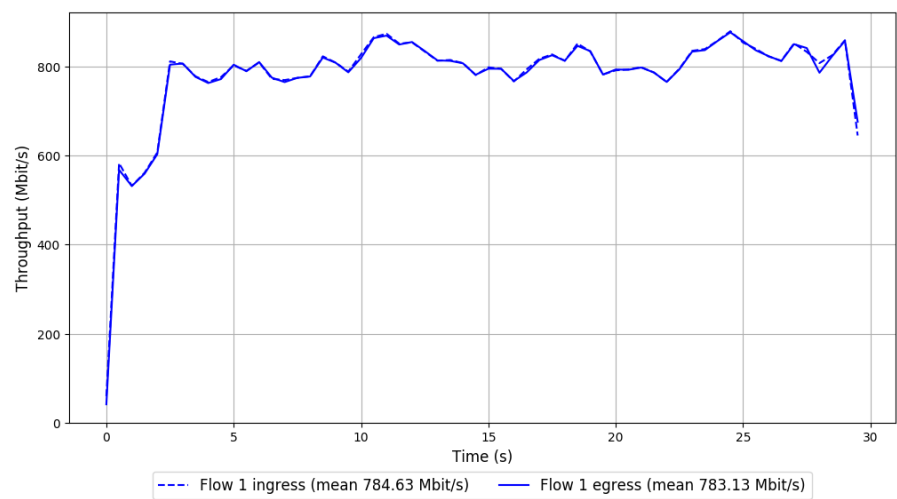


Run 9: Statistics of PCC

Start at: 2018-01-09 00:56:06
End at: 2018-01-09 00:56:36
Local clock offset: -4.786 ms
Remote clock offset: -2.156 ms

Below is generated by plot.py at 2018-01-09 05:13:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 783.13 Mbit/s
95th percentile per-packet one-way delay: 18.700 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 783.13 Mbit/s
95th percentile per-packet one-way delay: 18.700 ms
Loss rate: 0.19%

Run 9: Report of PCC — Data Link

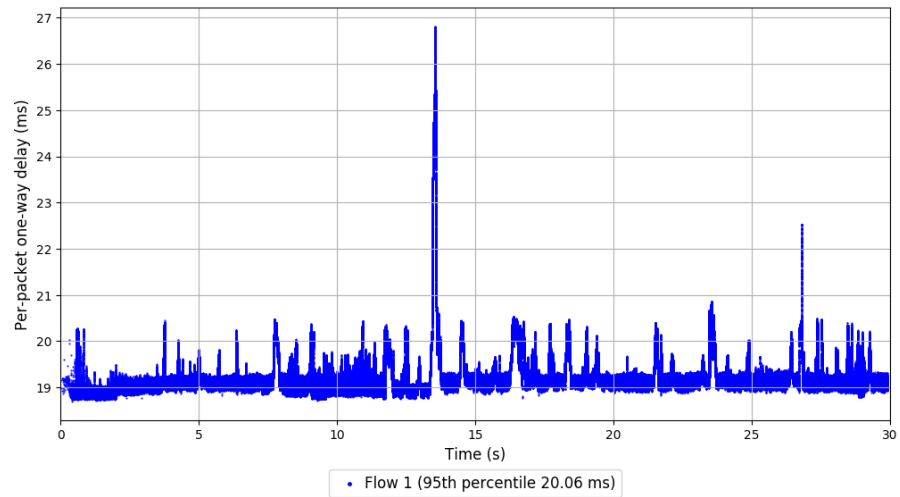
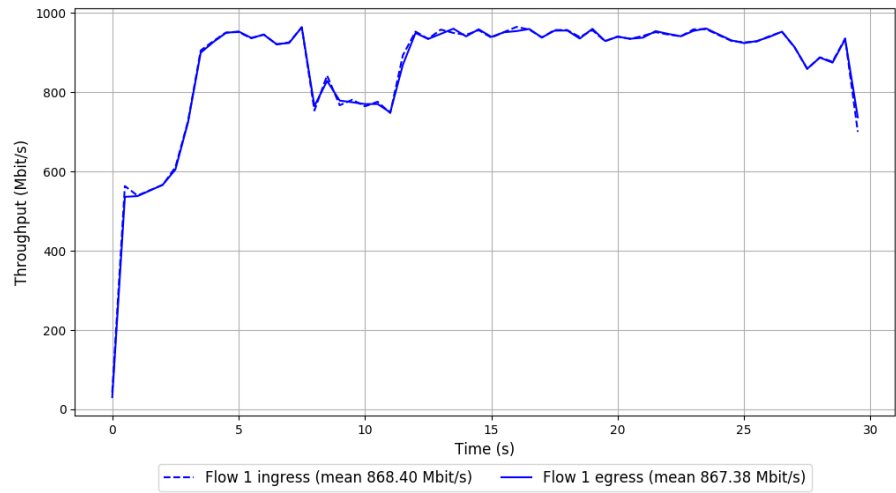


Run 10: Statistics of PCC

Start at: 2018-01-09 01:16:02
End at: 2018-01-09 01:16:32
Local clock offset: -2.351 ms
Remote clock offset: -1.979 ms

Below is generated by plot.py at 2018-01-09 05:29:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 867.38 Mbit/s
95th percentile per-packet one-way delay: 20.061 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 867.38 Mbit/s
95th percentile per-packet one-way delay: 20.061 ms
Loss rate: 0.12%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

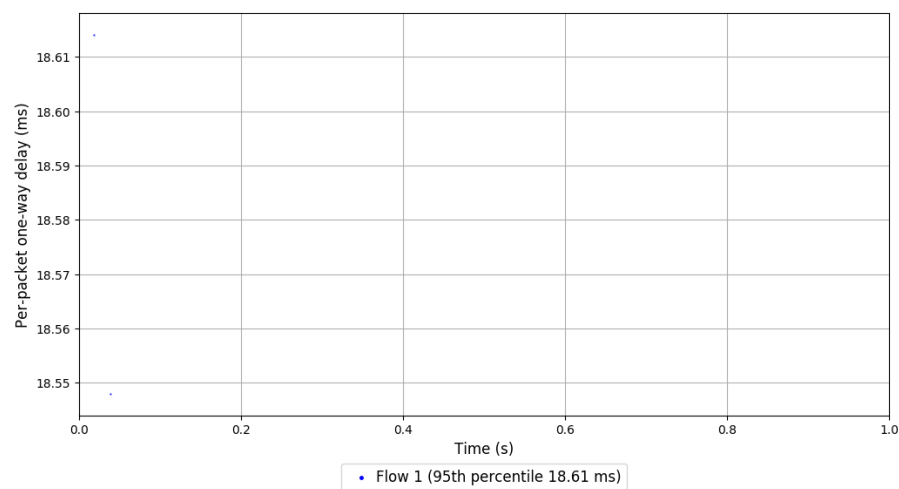
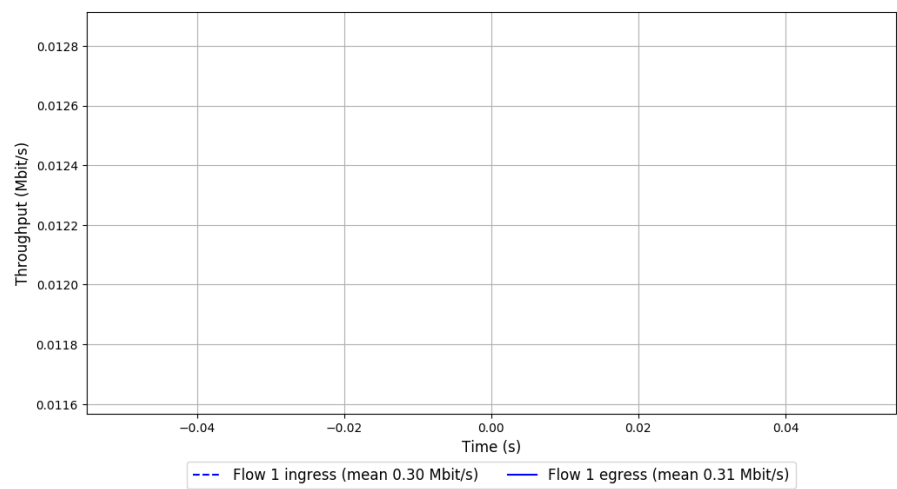
Start at: 2018-01-08 22:26:25

End at: 2018-01-08 22:26:55

Local clock offset: -18.132 ms

Remote clock offset: -1.93 ms

Run 1: Report of QUIC Cubic — Data Link

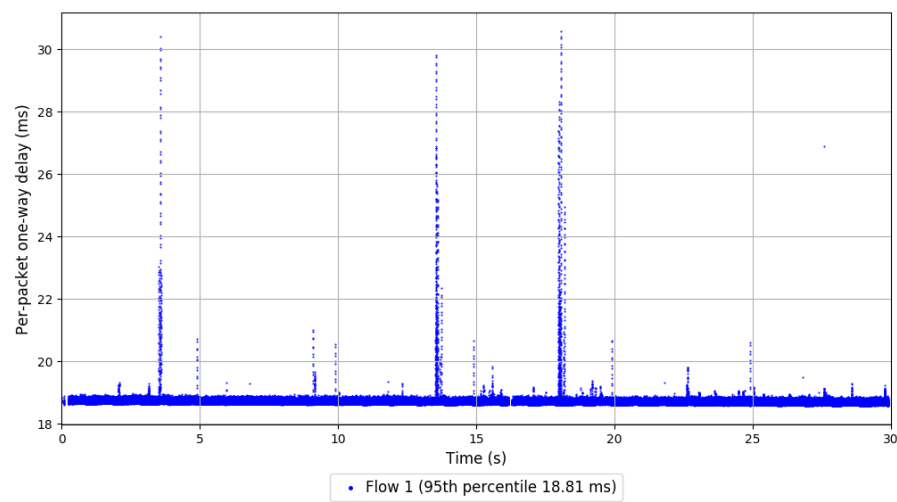
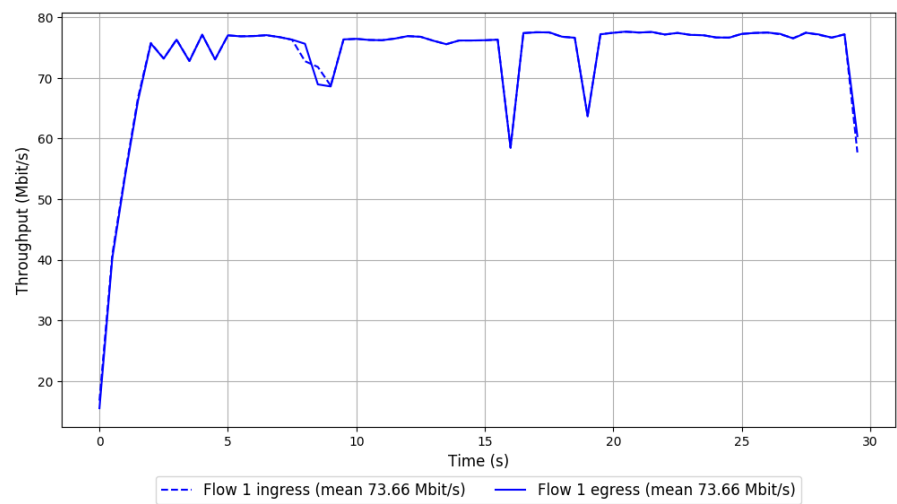


Run 2: Statistics of QUIC Cubic

Start at: 2018-01-08 22:46:37
End at: 2018-01-08 22:47:07
Local clock offset: -20.384 ms
Remote clock offset: -1.801 ms

Below is generated by plot.py at 2018-01-09 05:29:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.66 Mbit/s
95th percentile per-packet one-way delay: 18.810 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 73.66 Mbit/s
95th percentile per-packet one-way delay: 18.810 ms
Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link

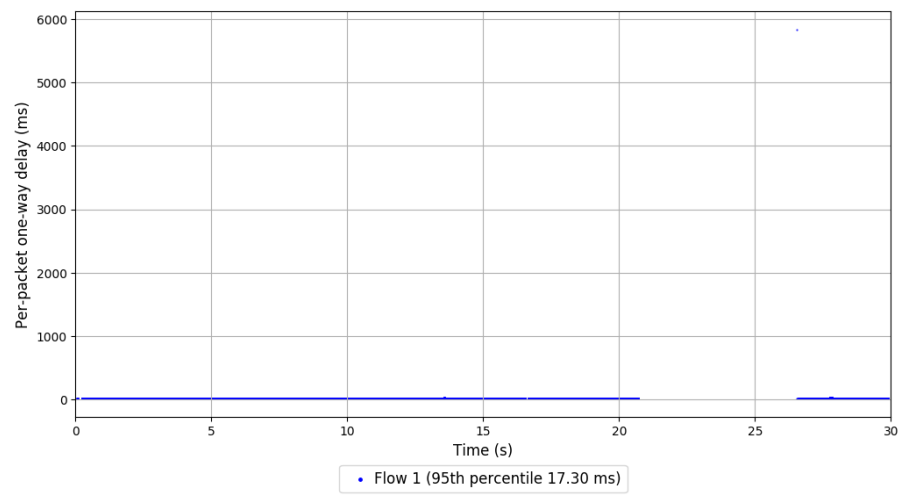
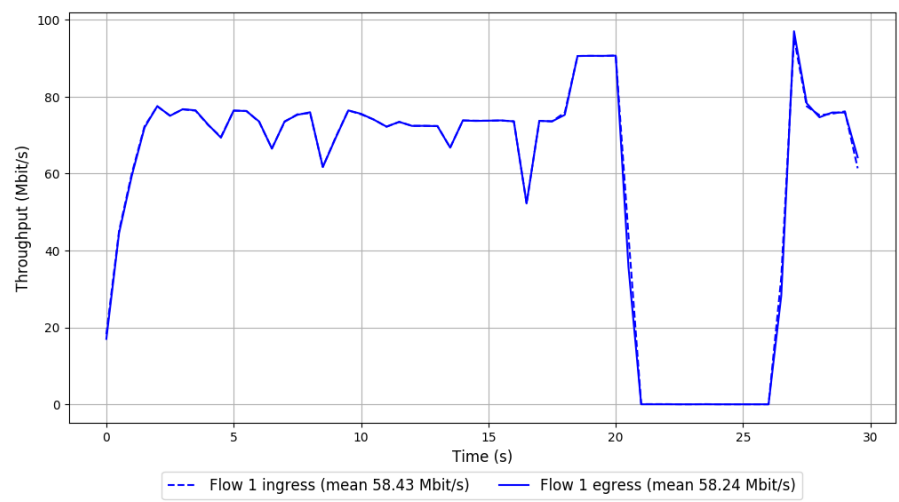


Run 3: Statistics of QUIC Cubic

Start at: 2018-01-08 23:06:43
End at: 2018-01-08 23:07:13
Local clock offset: -21.954 ms
Remote clock offset: -1.422 ms

Below is generated by plot.py at 2018-01-09 05:29:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 58.24 Mbit/s
95th percentile per-packet one-way delay: 17.303 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 58.24 Mbit/s
95th percentile per-packet one-way delay: 17.303 ms
Loss rate: 0.33%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-08 23:27:07

End at: 2018-01-08 23:27:37

Local clock offset: -24.28 ms

Remote clock offset: -1.561 ms

Below is generated by plot.py at 2018-01-09 05:29:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.35 Mbit/s

95th percentile per-packet one-way delay: 18.906 ms

Loss rate: 0.00%

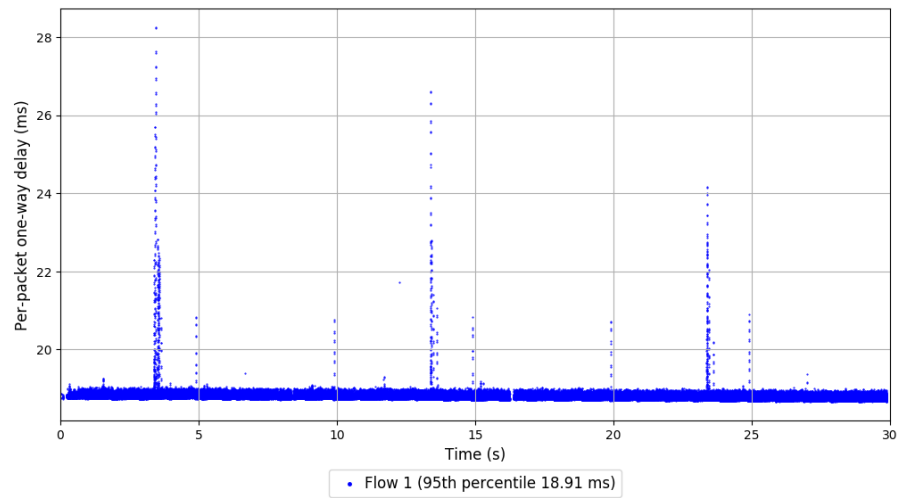
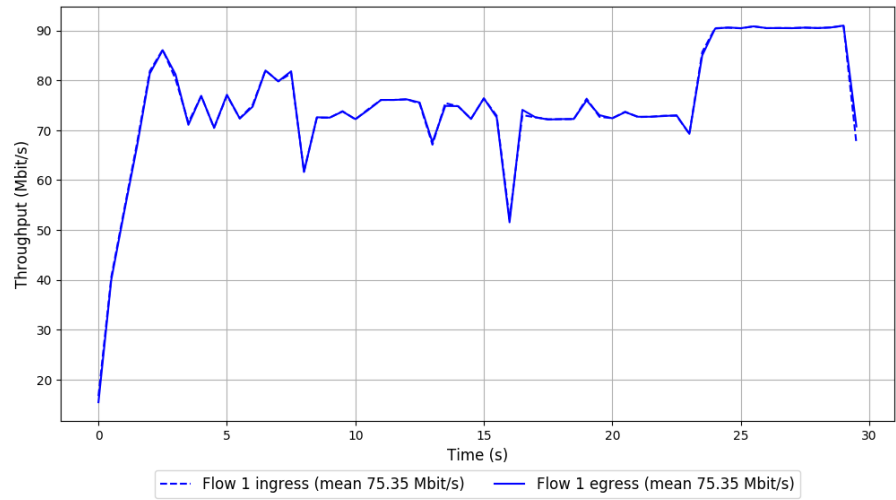
-- Flow 1:

Average throughput: 75.35 Mbit/s

95th percentile per-packet one-way delay: 18.906 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link

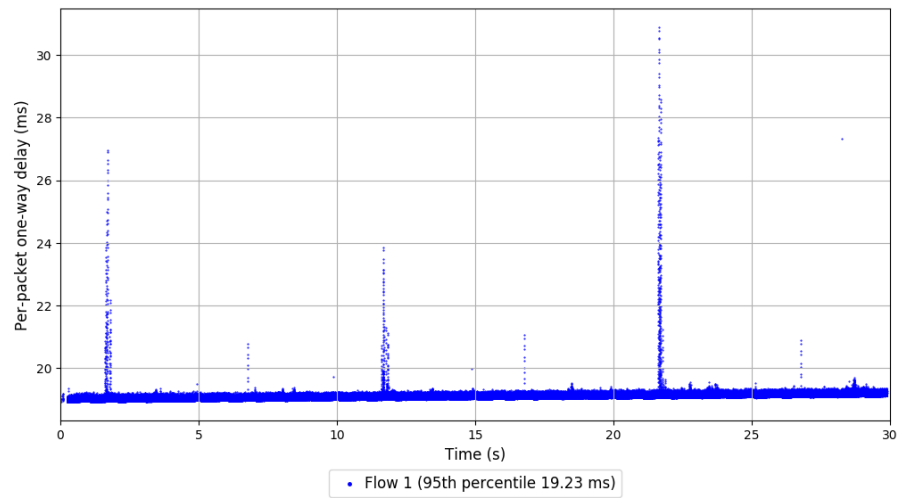
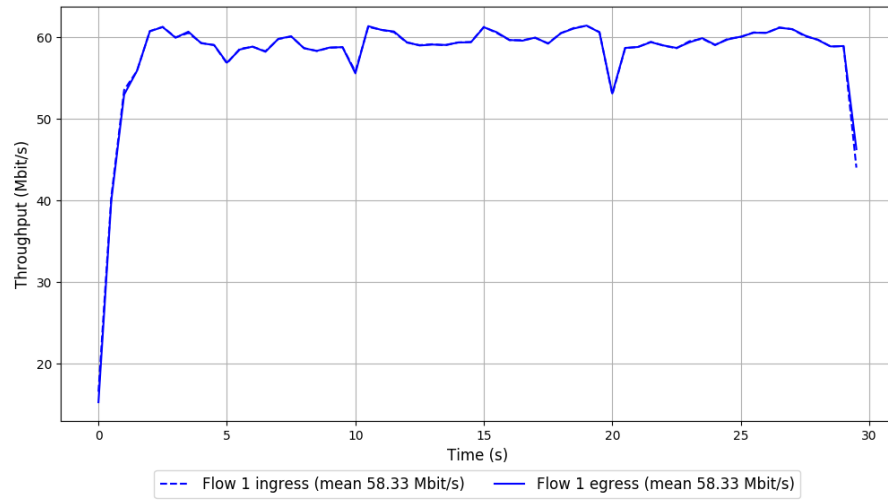


Run 5: Statistics of QUIC Cubic

Start at: 2018-01-08 23:47:09
End at: 2018-01-08 23:47:39
Local clock offset: -19.469 ms
Remote clock offset: -1.341 ms

Below is generated by plot.py at 2018-01-09 05:29:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 58.33 Mbit/s
95th percentile per-packet one-way delay: 19.226 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.33 Mbit/s
95th percentile per-packet one-way delay: 19.226 ms
Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

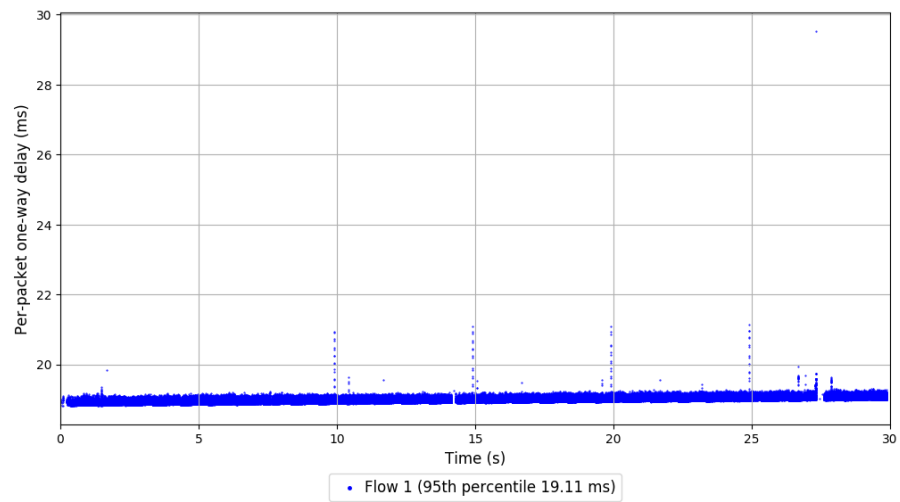
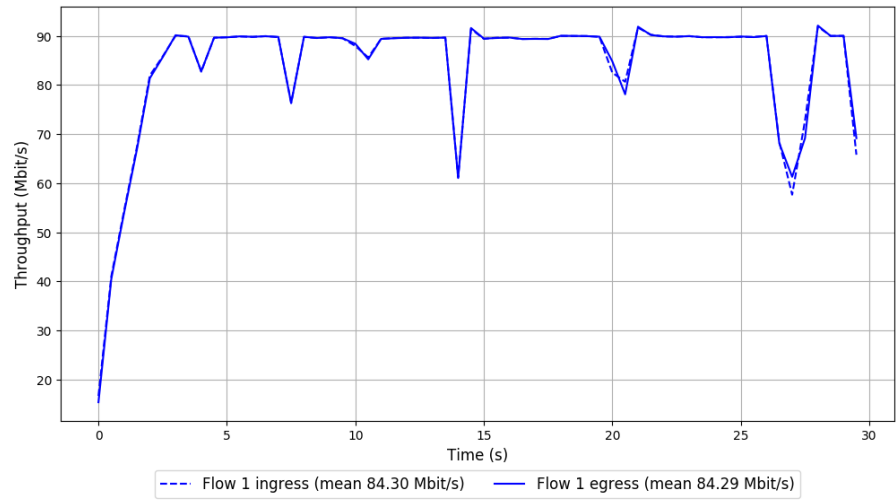


Run 6: Statistics of QUIC Cubic

Start at: 2018-01-09 00:07:10
End at: 2018-01-09 00:07:40
Local clock offset: -13.856 ms
Remote clock offset: -1.229 ms

Below is generated by plot.py at 2018-01-09 05:29:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.29 Mbit/s
95th percentile per-packet one-way delay: 19.110 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.29 Mbit/s
95th percentile per-packet one-way delay: 19.110 ms
Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link

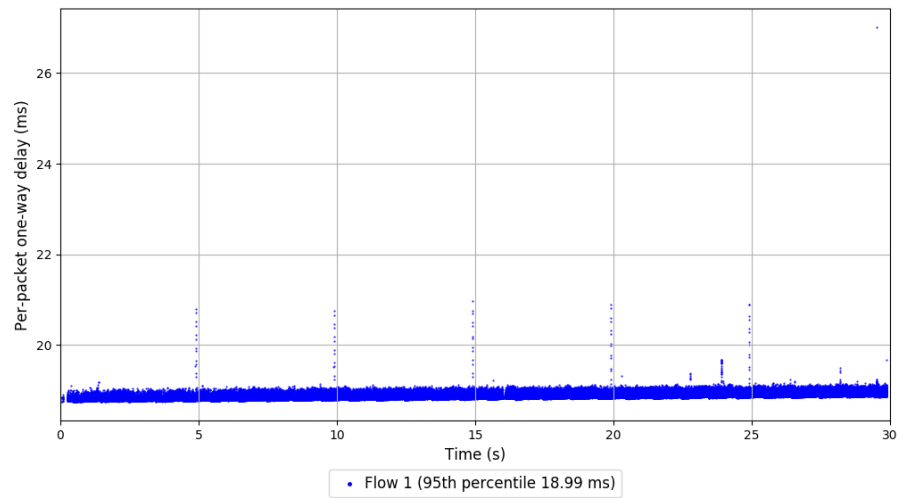
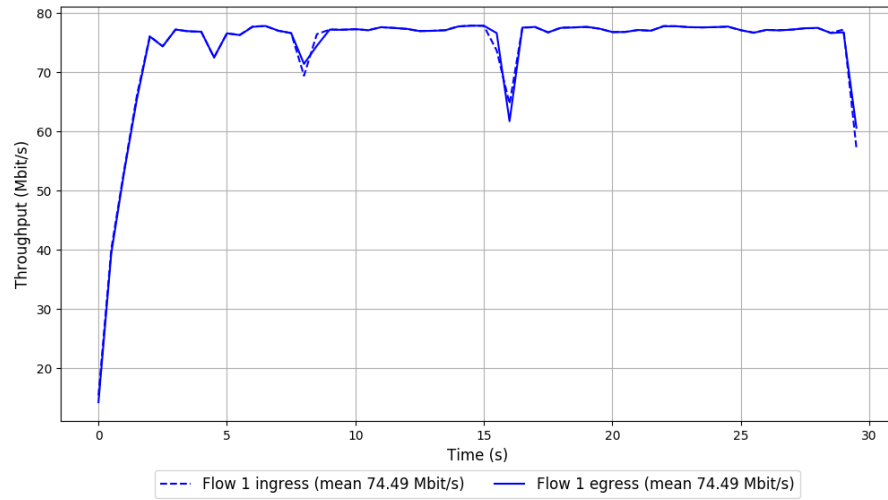


Run 7: Statistics of QUIC Cubic

Start at: 2018-01-09 00:26:59
End at: 2018-01-09 00:27:29
Local clock offset: -8.519 ms
Remote clock offset: -1.577 ms

Below is generated by plot.py at 2018-01-09 05:29:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.49 Mbit/s
95th percentile per-packet one-way delay: 18.992 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 74.49 Mbit/s
95th percentile per-packet one-way delay: 18.992 ms
Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link

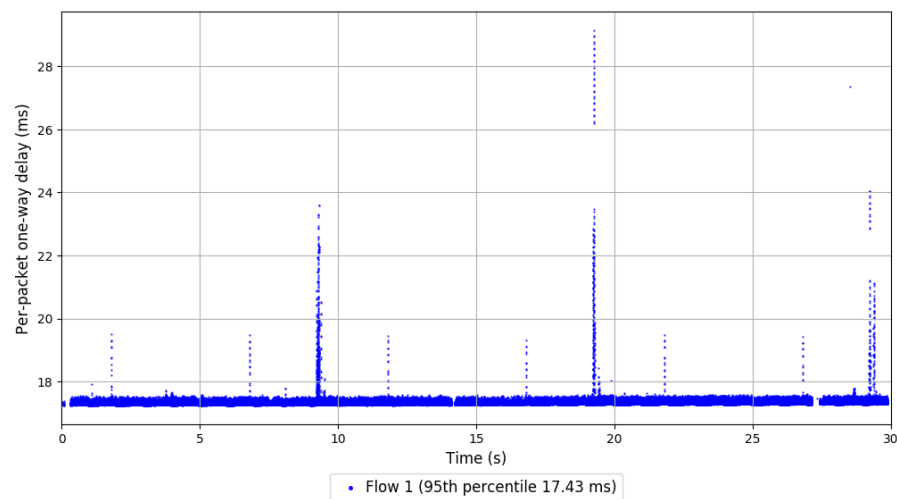
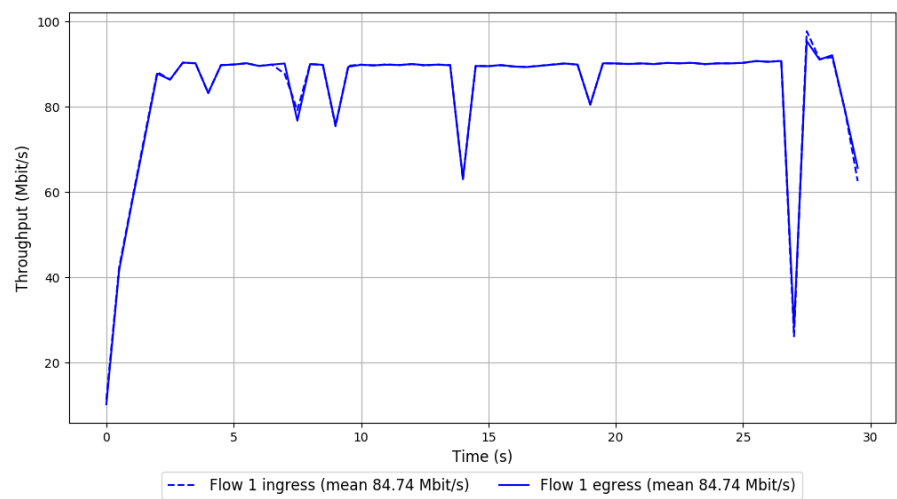


Run 8: Statistics of QUIC Cubic

Start at: 2018-01-09 00:47:06
End at: 2018-01-09 00:47:36
Local clock offset: -6.159 ms
Remote clock offset: -2.284 ms

Below is generated by plot.py at 2018-01-09 05:29:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.74 Mbit/s
95th percentile per-packet one-way delay: 17.429 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.74 Mbit/s
95th percentile per-packet one-way delay: 17.429 ms
Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link

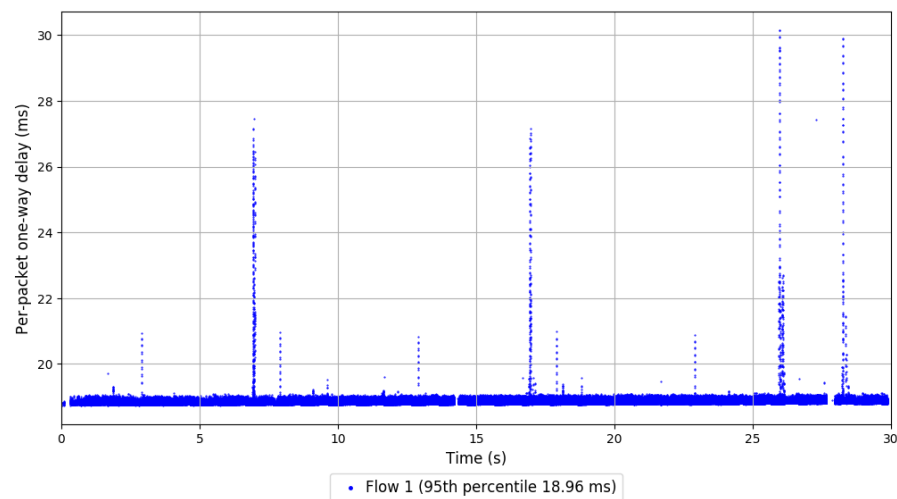
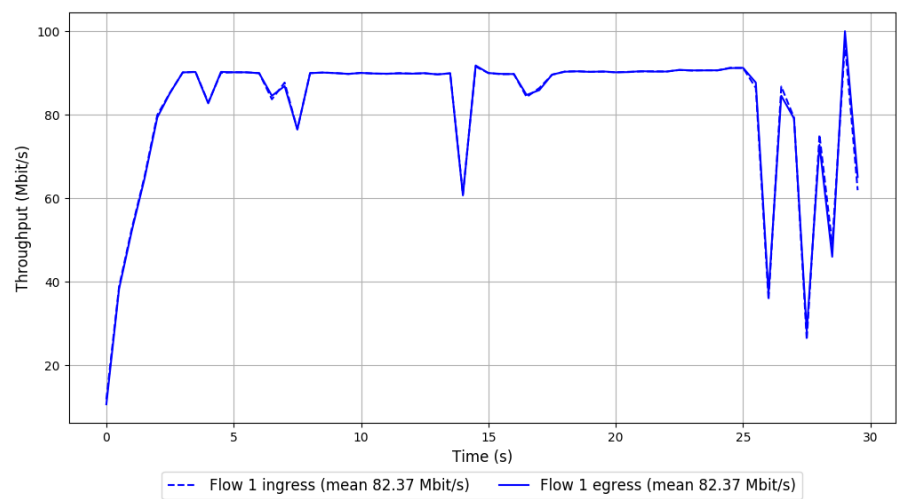


Run 9: Statistics of QUIC Cubic

Start at: 2018-01-09 01:07:09
End at: 2018-01-09 01:07:39
Local clock offset: -3.222 ms
Remote clock offset: -2.233 ms

Below is generated by plot.py at 2018-01-09 05:29:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.37 Mbit/s
95th percentile per-packet one-way delay: 18.960 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 82.37 Mbit/s
95th percentile per-packet one-way delay: 18.960 ms
Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-01-09 01:27:15

End at: 2018-01-09 01:27:45

Local clock offset: -1.372 ms

Remote clock offset: -1.878 ms

Below is generated by plot.py at 2018-01-09 05:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.32 Mbit/s

95th percentile per-packet one-way delay: 17.500 ms

Loss rate: 0.00%

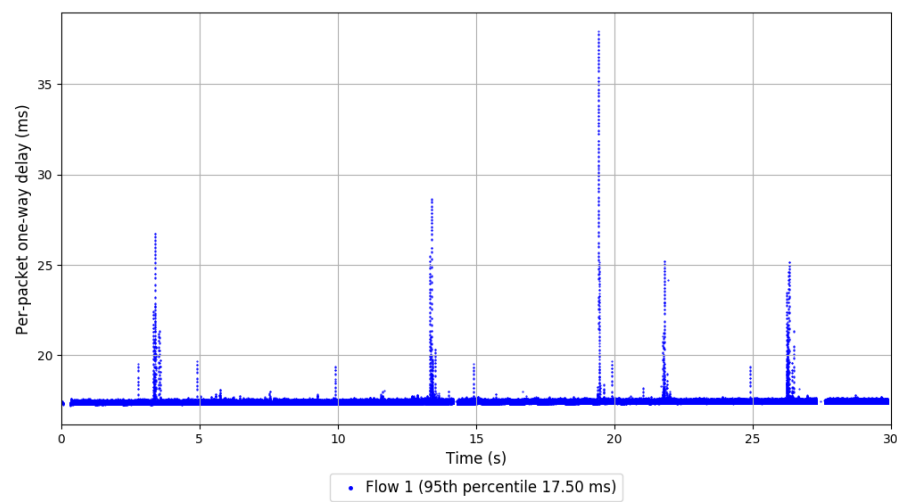
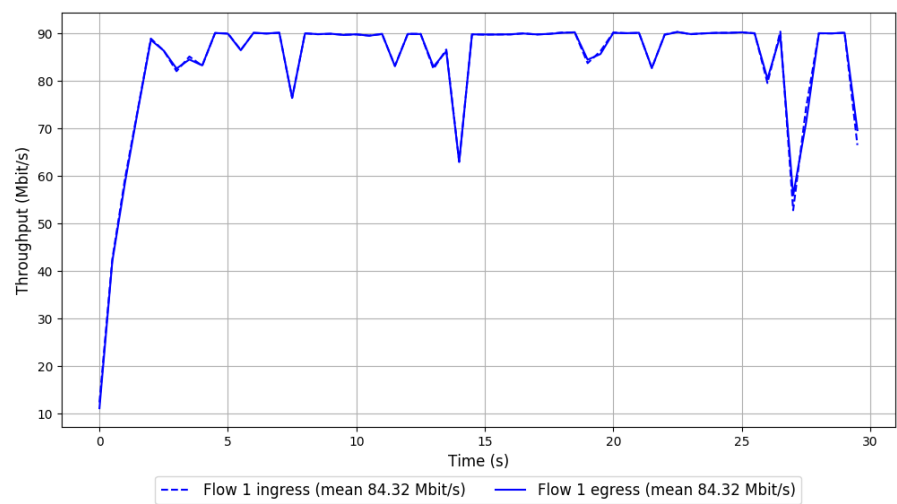
-- Flow 1:

Average throughput: 84.32 Mbit/s

95th percentile per-packet one-way delay: 17.500 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

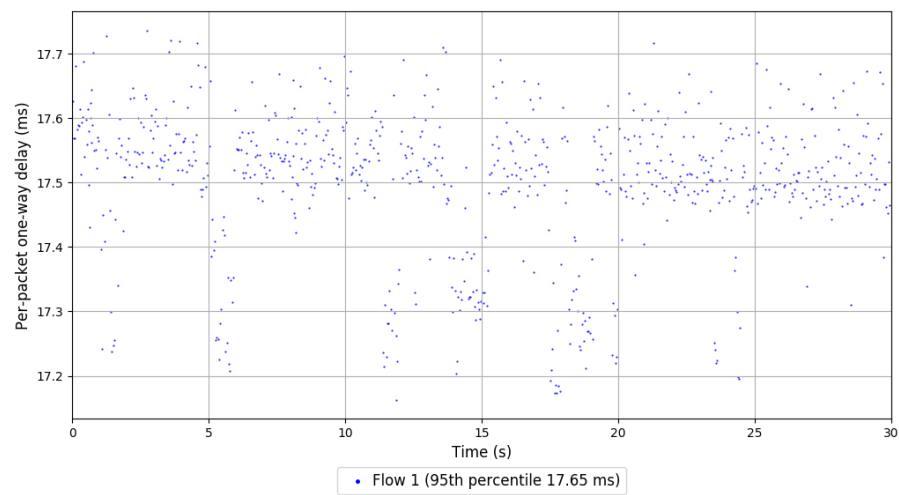
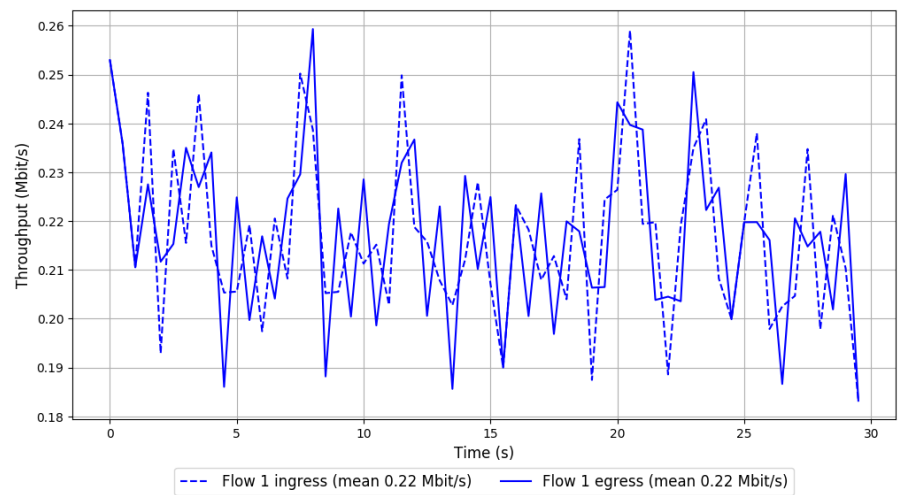


```
Run 1: Statistics of SCReAM

Start at: 2018-01-08 22:18:14
End at: 2018-01-08 22:18:44
Local clock offset: -17.242 ms
Remote clock offset: -1.618 ms

# Below is generated by plot.py at 2018-01-09 05:29:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.650 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.650 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

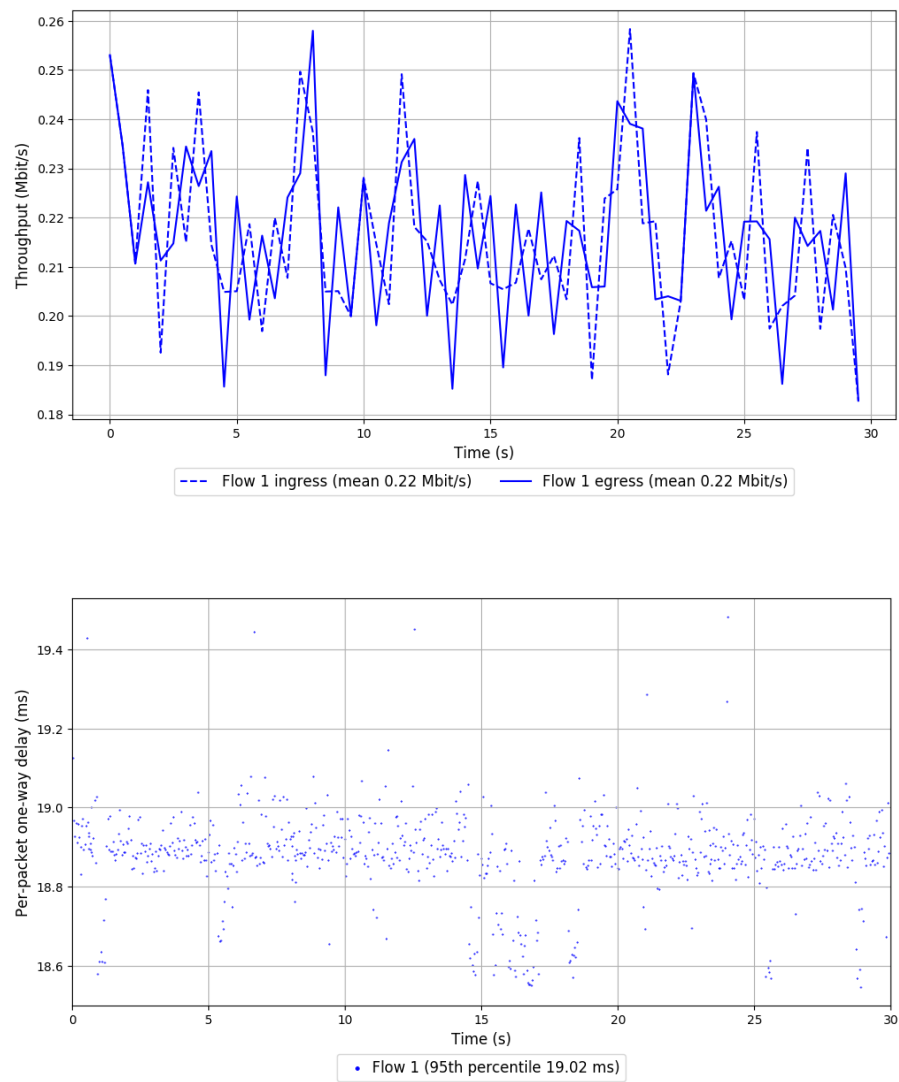


Run 2: Statistics of SCReAM

Start at: 2018-01-08 22:38:30
End at: 2018-01-08 22:39:00
Local clock offset: -19.681 ms
Remote clock offset: -1.931 ms

Below is generated by plot.py at 2018-01-09 05:29:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.019 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.019 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

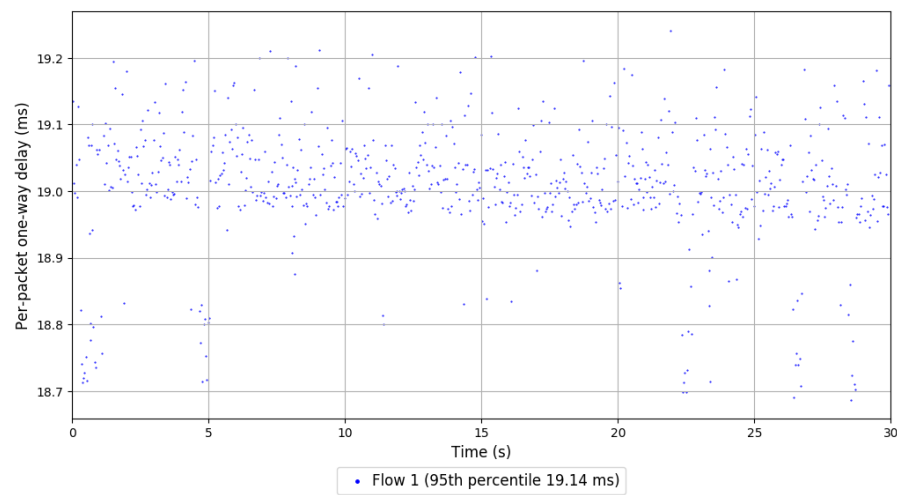
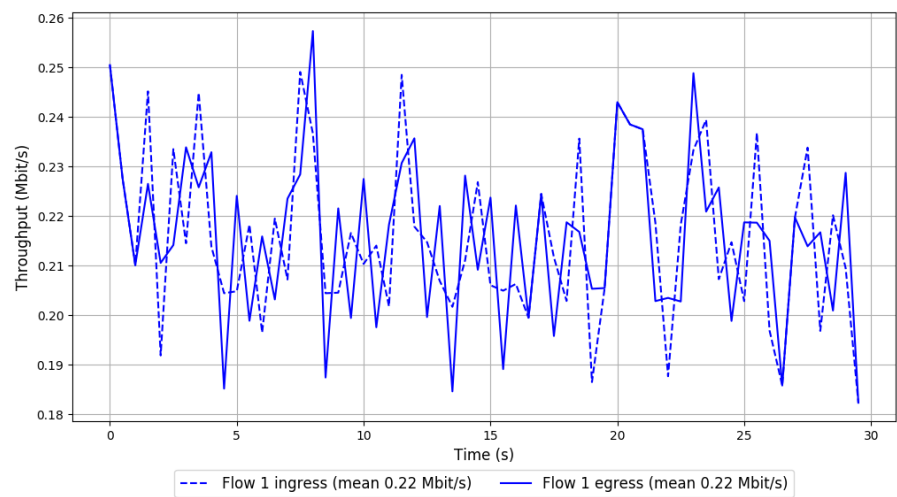


Run 3: Statistics of SCReAM

Start at: 2018-01-08 22:58:36
End at: 2018-01-08 22:59:06
Local clock offset: -21.583 ms
Remote clock offset: -1.615 ms

Below is generated by plot.py at 2018-01-09 05:29:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.143 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.143 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

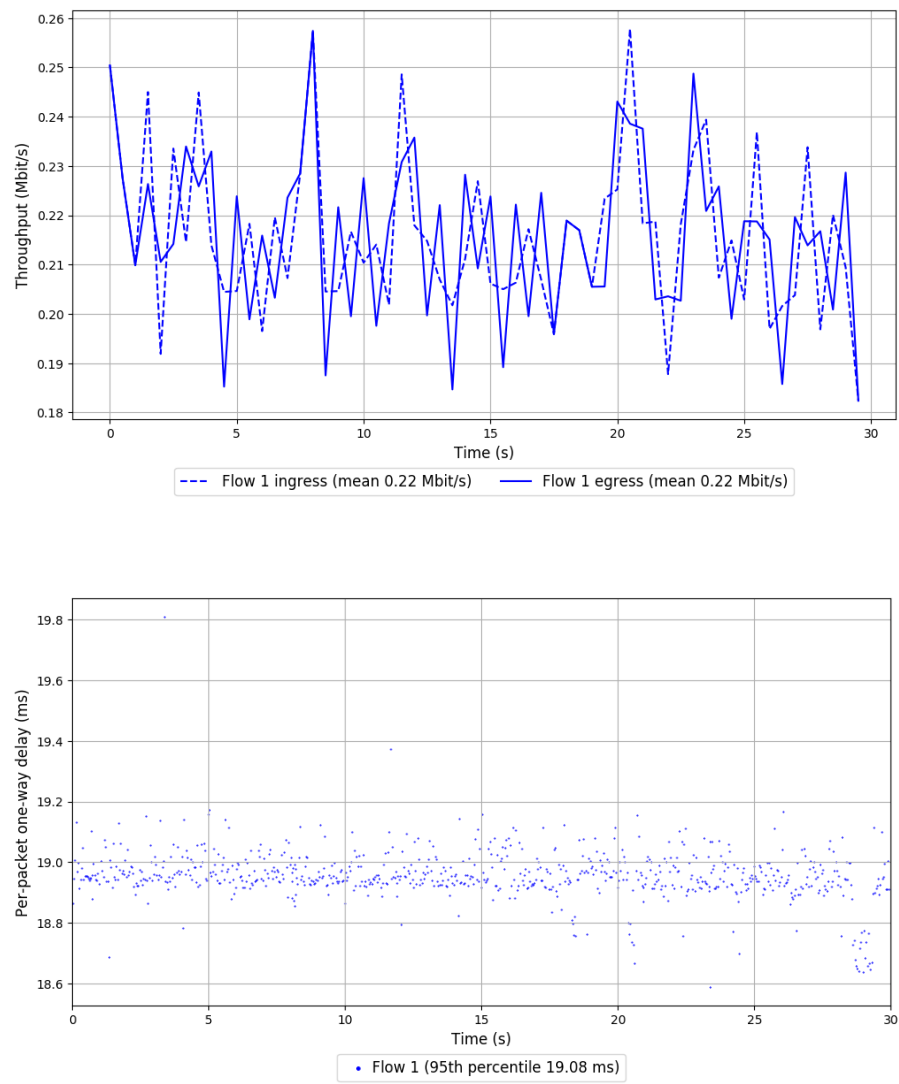


Run 4: Statistics of SCReAM

Start at: 2018-01-08 23:18:43
End at: 2018-01-08 23:19:13
Local clock offset: -23.108 ms
Remote clock offset: -1.536 ms

Below is generated by plot.py at 2018-01-09 05:29:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.080 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.080 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

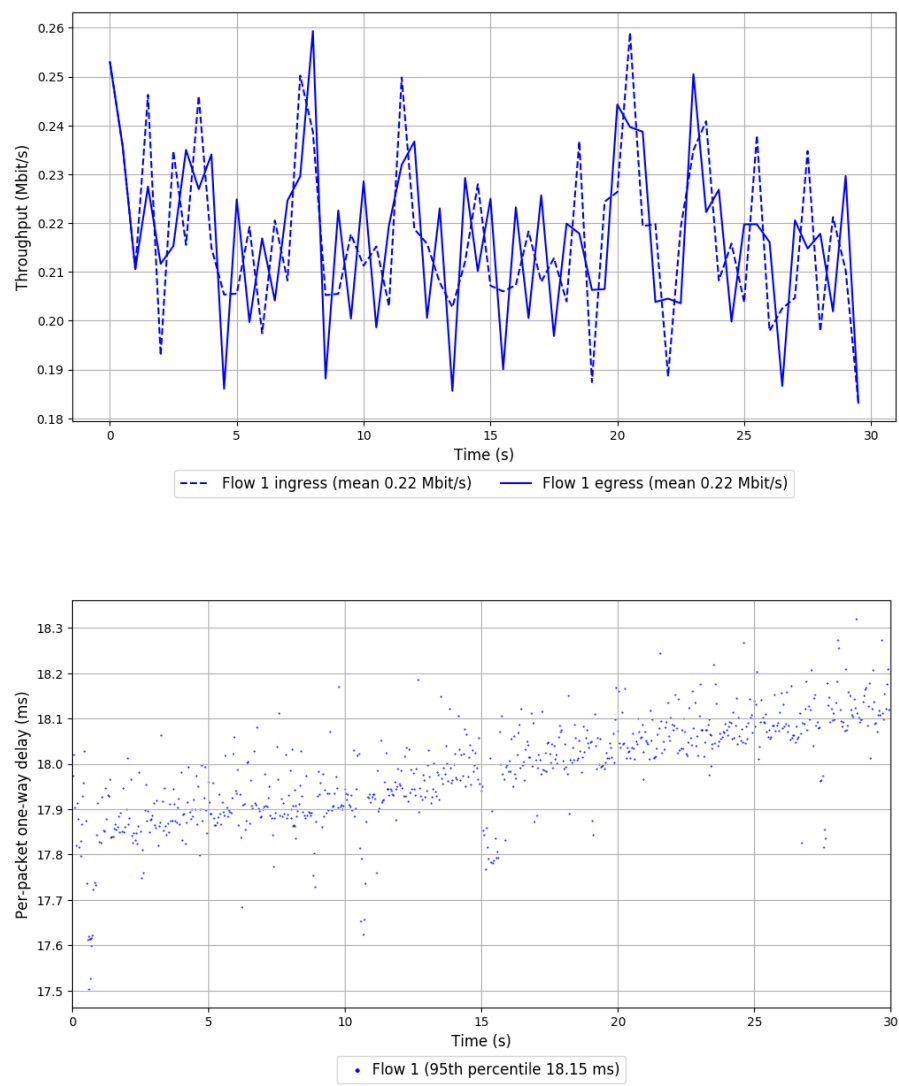


Run 5: Statistics of SCReAM

Start at: 2018-01-08 23:39:10
End at: 2018-01-08 23:39:40
Local clock offset: -23.215 ms
Remote clock offset: -1.551 ms

Below is generated by plot.py at 2018-01-09 05:29:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.148 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.148 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

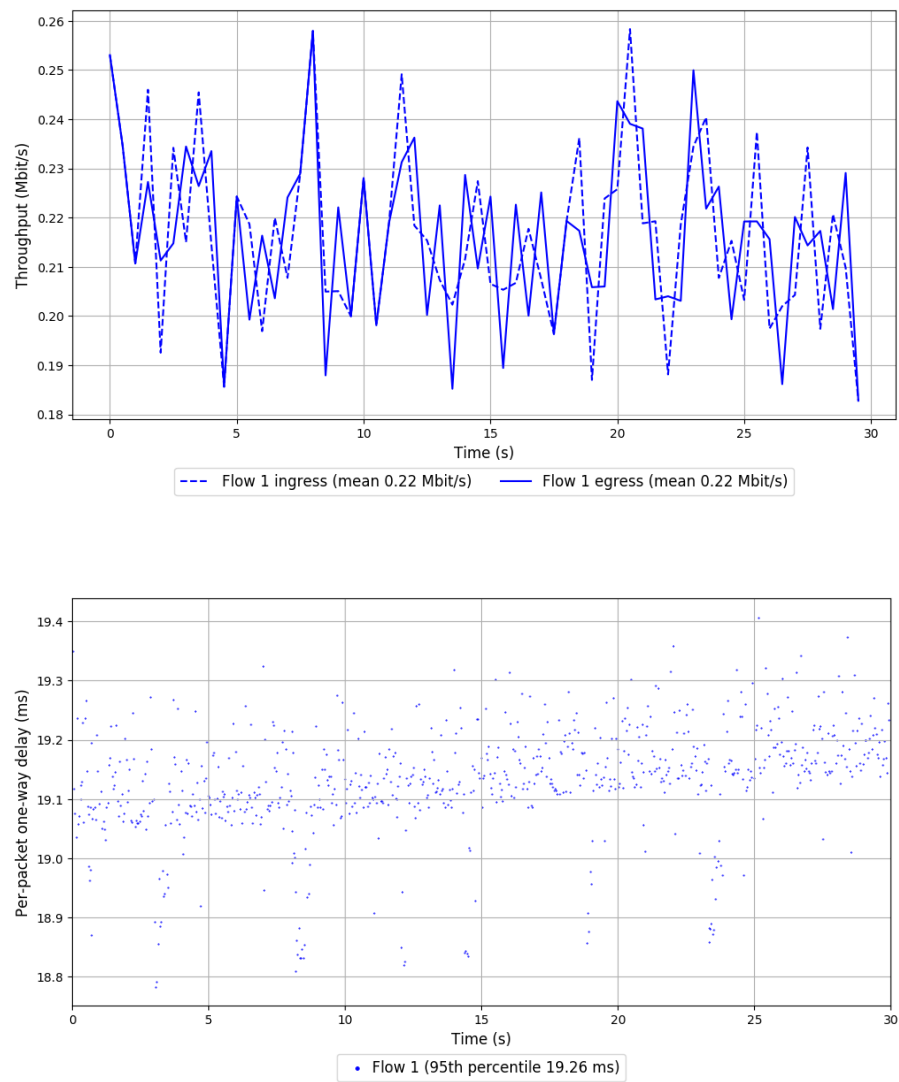


Run 6: Statistics of SCReAM

Start at: 2018-01-08 23:59:08
End at: 2018-01-08 23:59:38
Local clock offset: -15.748 ms
Remote clock offset: -1.147 ms

Below is generated by plot.py at 2018-01-09 05:29:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.262 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.262 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

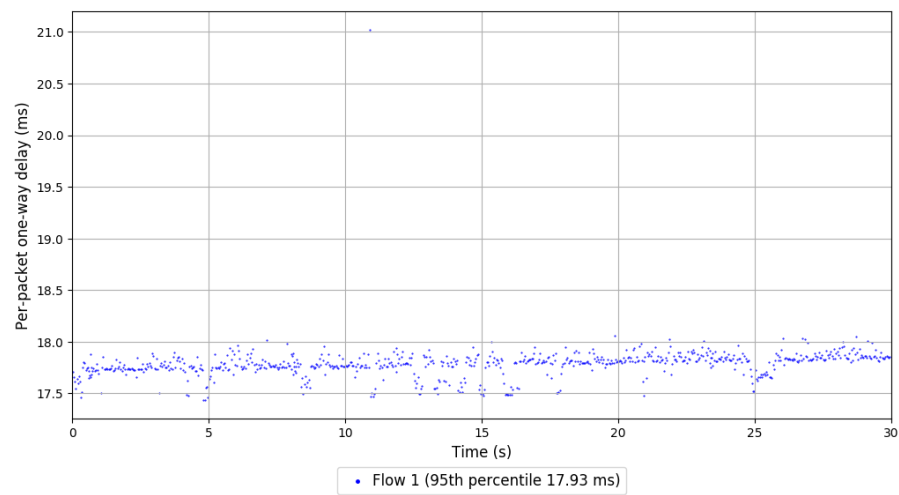
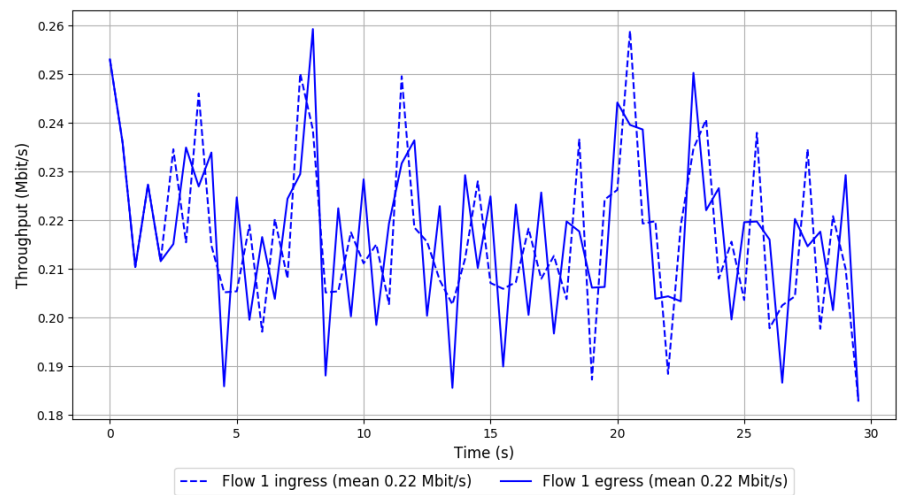


Run 7: Statistics of SCReAM

Start at: 2018-01-09 00:19:06
End at: 2018-01-09 00:19:36
Local clock offset: -10.436 ms
Remote clock offset: -1.386 ms

Below is generated by plot.py at 2018-01-09 05:29:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.925 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.925 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-09 00:38:58

End at: 2018-01-09 00:39:28

Local clock offset: -6.887 ms

Remote clock offset: -2.05 ms

Below is generated by plot.py at 2018-01-09 05:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.292 ms

Loss rate: 0.00%

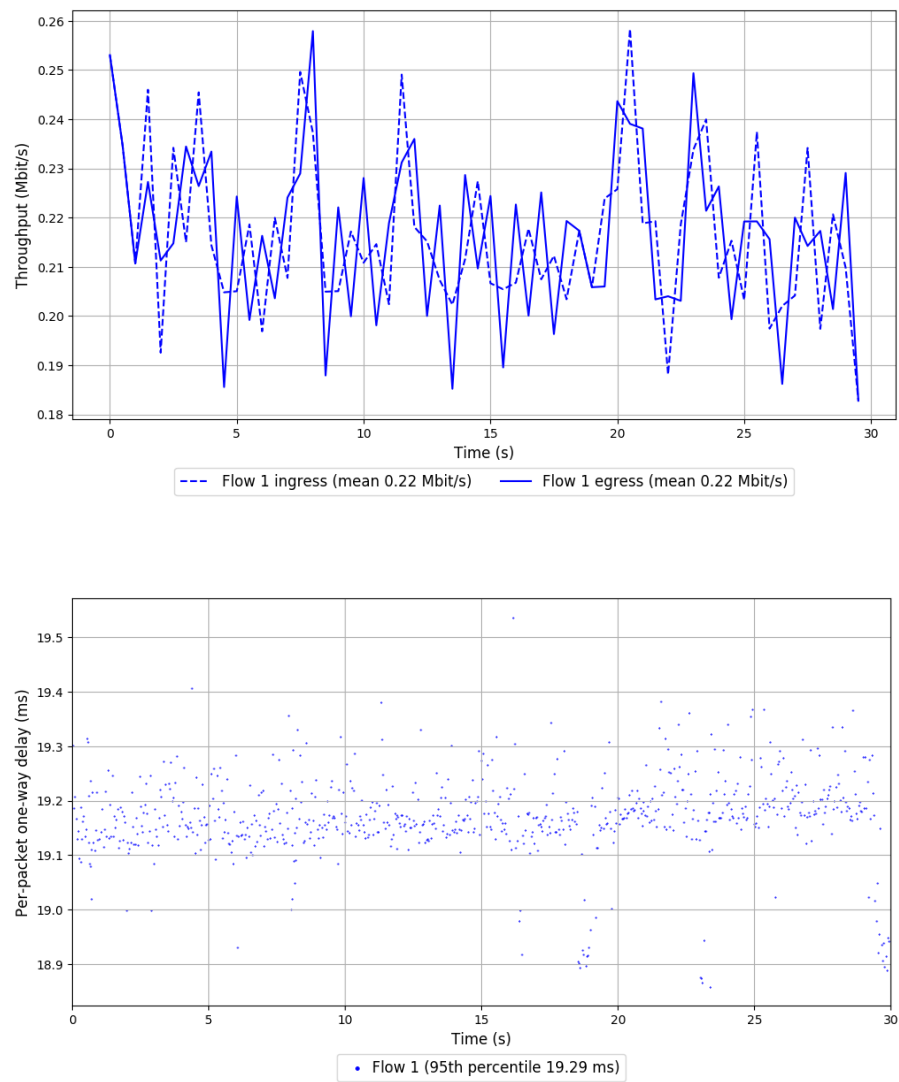
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.292 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

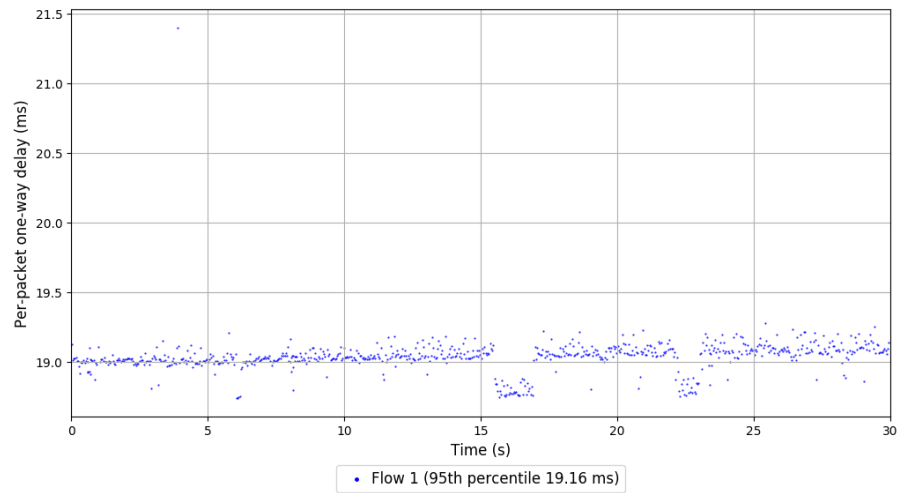
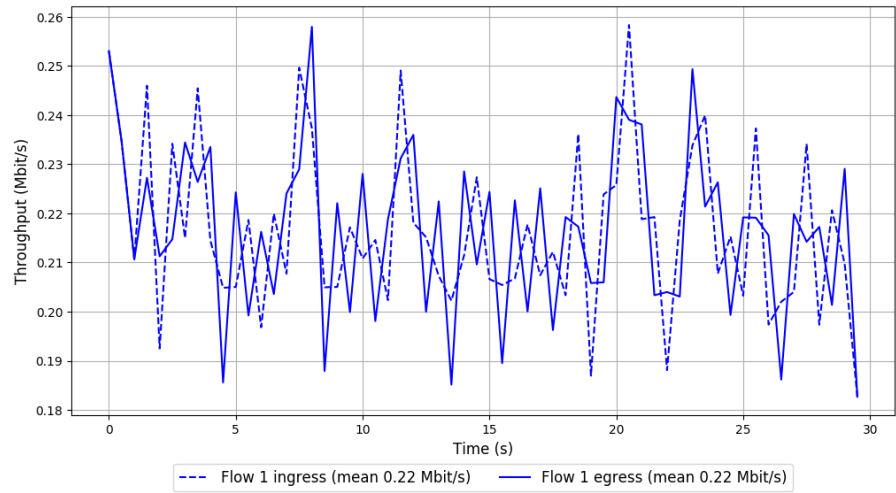


Run 9: Statistics of SCReAM

Start at: 2018-01-09 00:59:07
End at: 2018-01-09 00:59:37
Local clock offset: -4.208 ms
Remote clock offset: -2.242 ms

Below is generated by plot.py at 2018-01-09 05:29:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.163 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.163 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-01-09 01:19:06

End at: 2018-01-09 01:19:36

Local clock offset: -2.033 ms

Remote clock offset: -1.88 ms

Below is generated by plot.py at 2018-01-09 05:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.662 ms

Loss rate: 0.00%

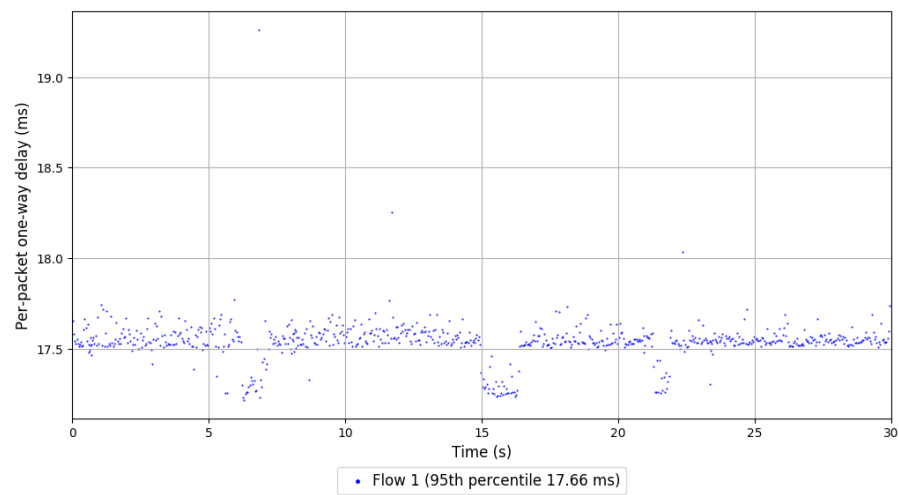
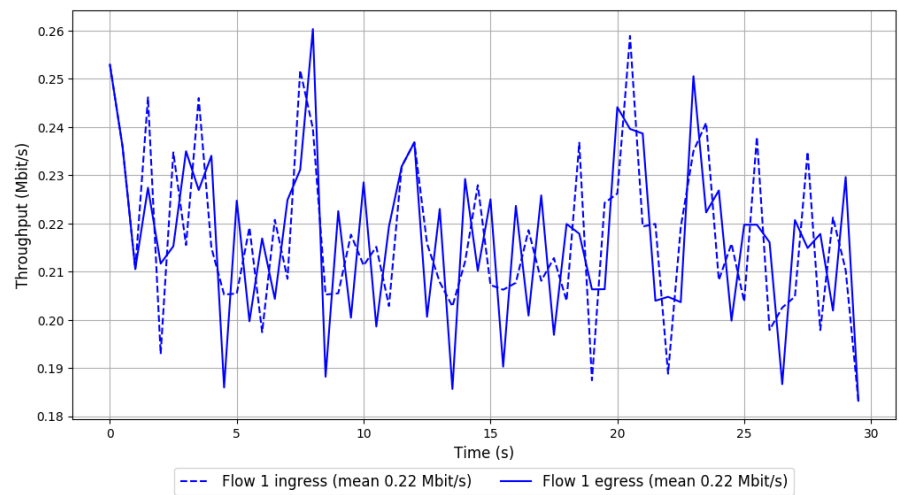
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.662 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

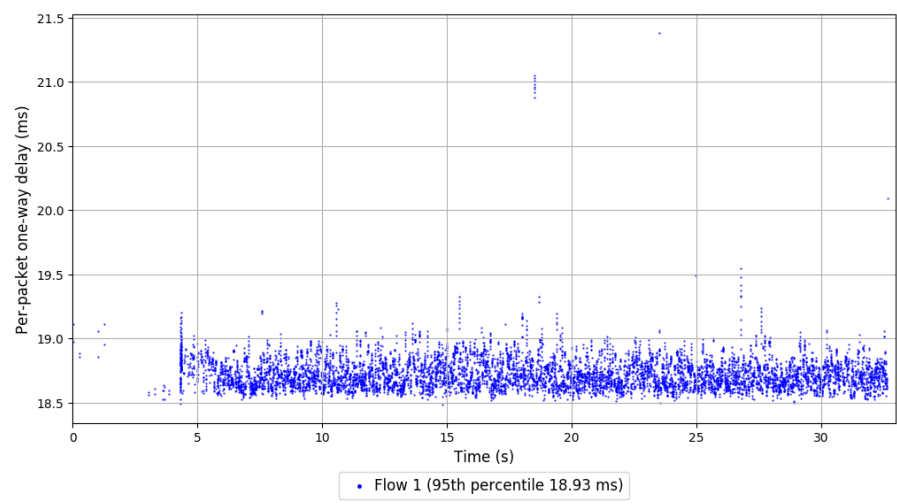
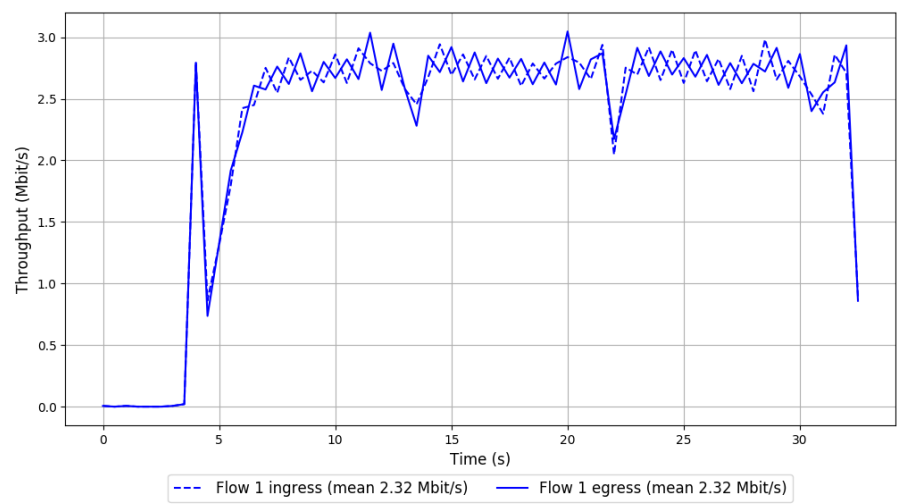


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-08 22:20:52
End at: 2018-01-08 22:21:22
Local clock offset: -17.521 ms
Remote clock offset: -1.779 ms

# Below is generated by plot.py at 2018-01-09 05:29:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 18.930 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 18.930 ms
Loss rate: 0.02%
```


Run 1: Report of WebRTC media — Data Link

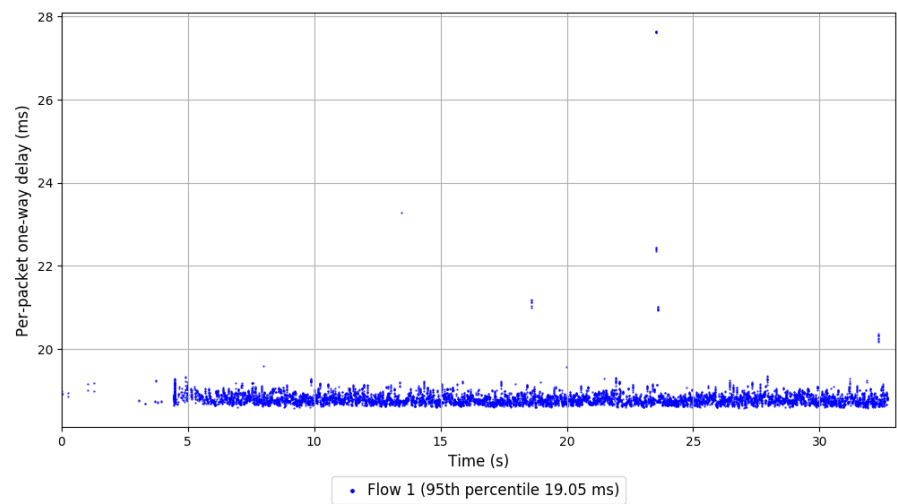
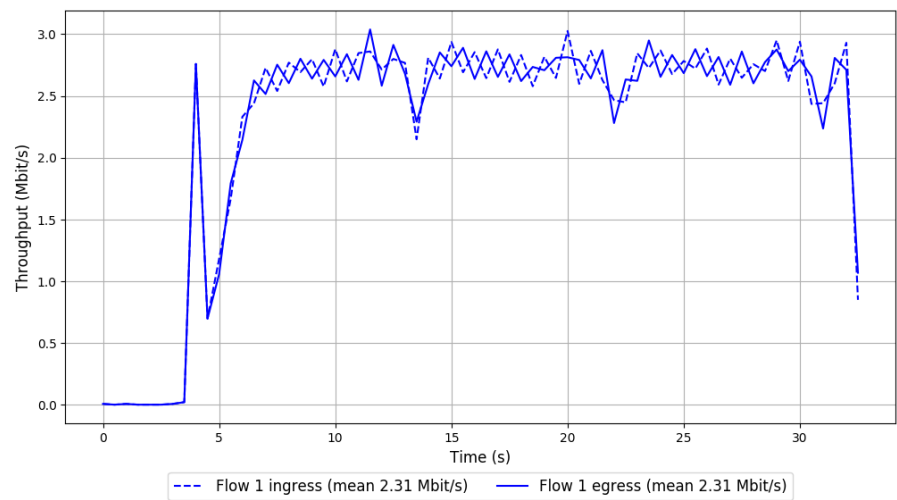


Run 2: Statistics of WebRTC media

Start at: 2018-01-08 22:41:05
End at: 2018-01-08 22:41:35
Local clock offset: -19.868 ms
Remote clock offset: -1.858 ms

Below is generated by plot.py at 2018-01-09 05:29:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 19.045 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 19.045 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

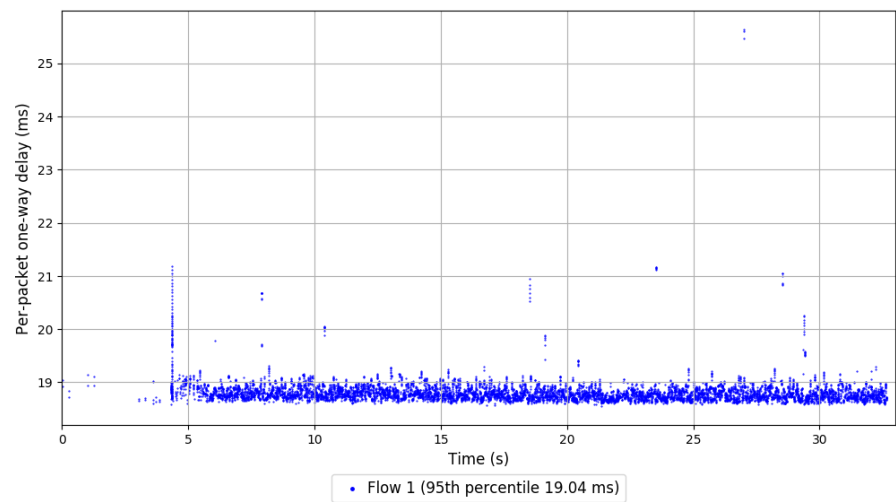
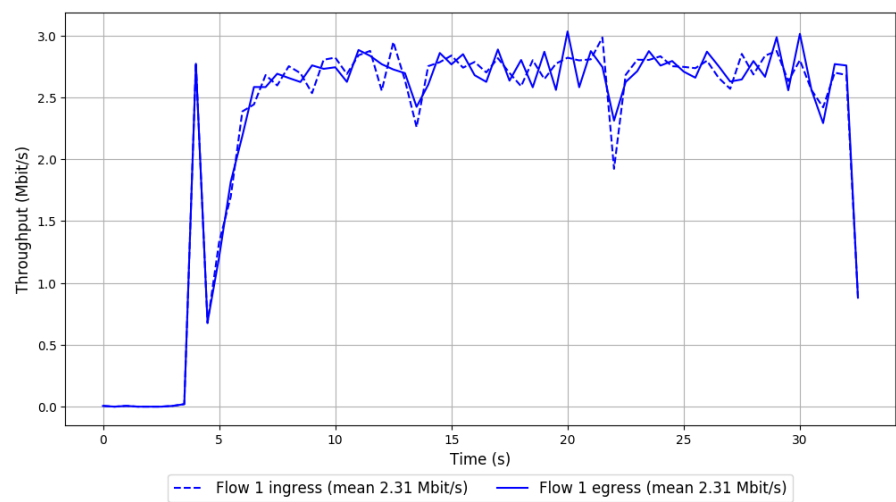


Run 3: Statistics of WebRTC media

Start at: 2018-01-08 23:01:11
End at: 2018-01-08 23:01:41
Local clock offset: -21.617 ms
Remote clock offset: -1.492 ms

Below is generated by plot.py at 2018-01-09 05:29:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 19.039 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 19.039 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

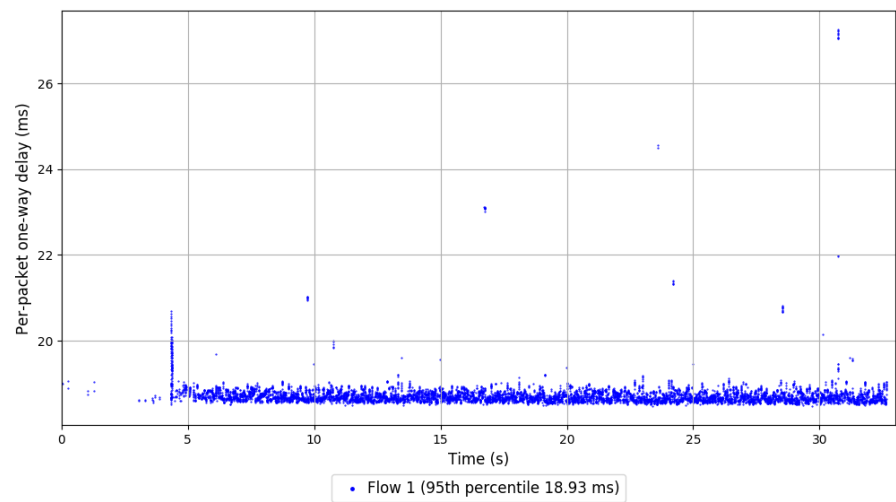
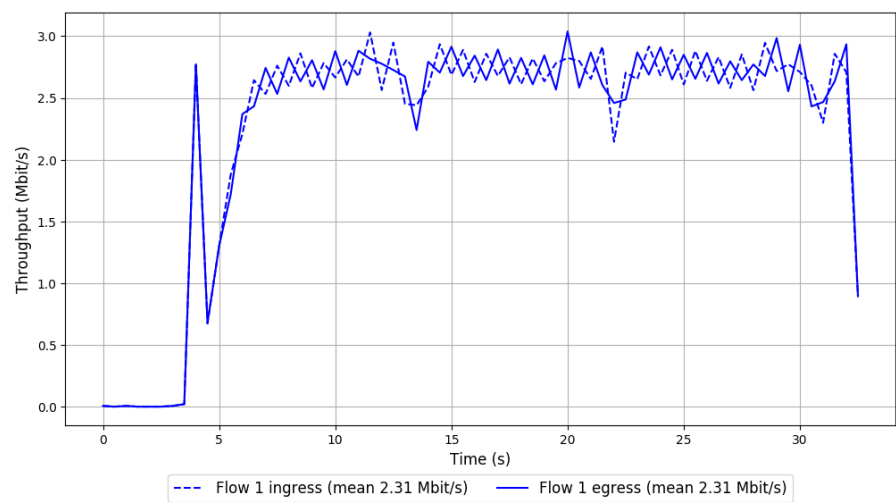


Run 4: Statistics of WebRTC media

Start at: 2018-01-08 23:21:18
End at: 2018-01-08 23:21:48
Local clock offset: -23.433 ms
Remote clock offset: -1.676 ms

Below is generated by plot.py at 2018-01-09 05:29:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 18.929 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 18.929 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

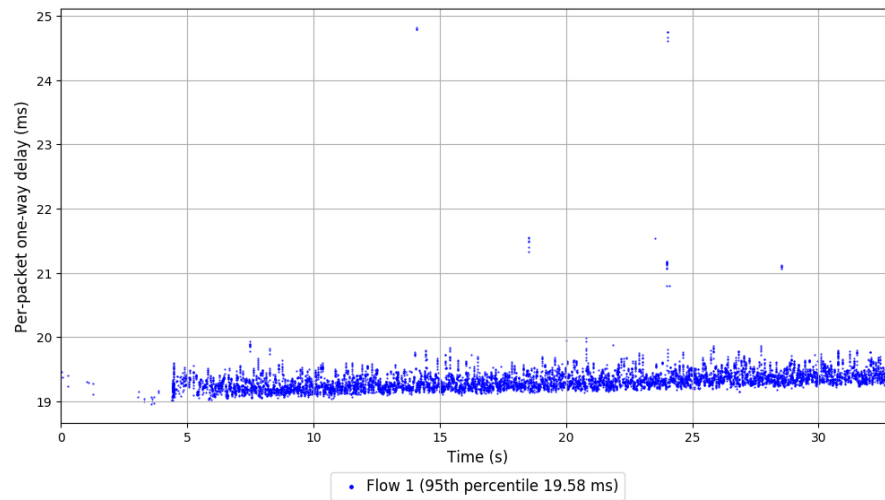
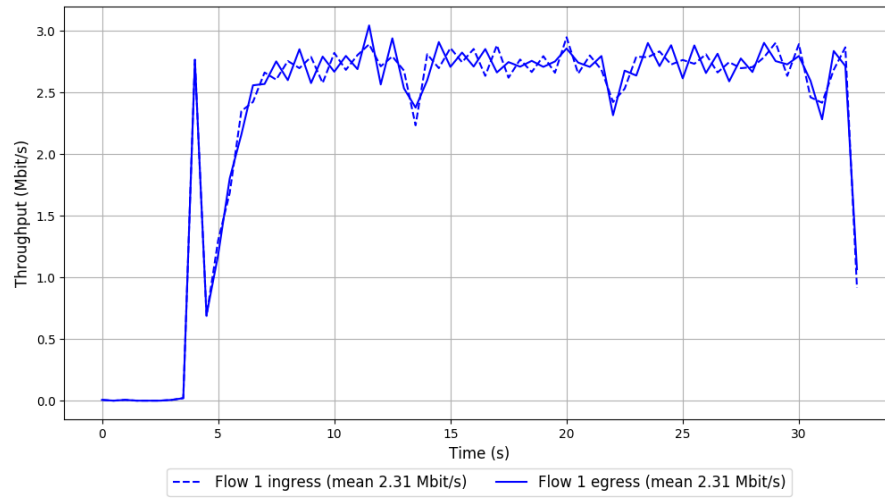


Run 5: Statistics of WebRTC media

Start at: 2018-01-08 23:41:35
End at: 2018-01-08 23:42:05
Local clock offset: -22.05 ms
Remote clock offset: -1.513 ms

Below is generated by plot.py at 2018-01-09 05:29:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 19.577 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 19.577 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

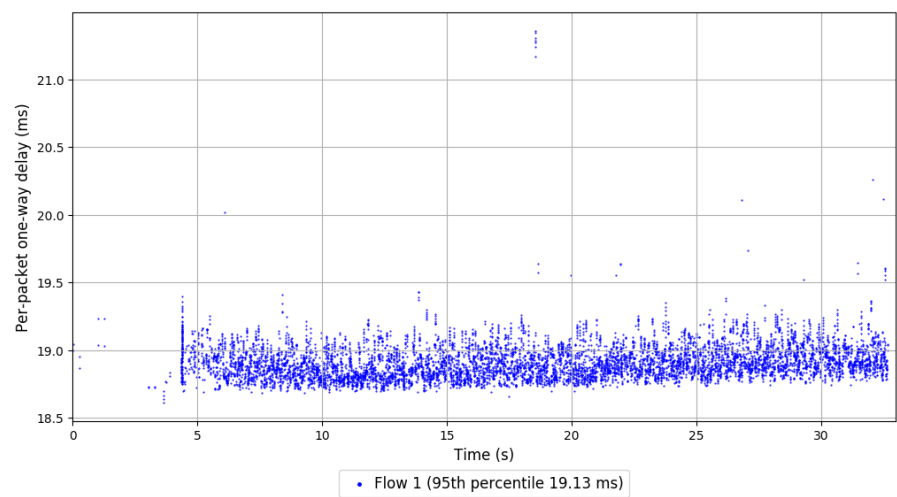
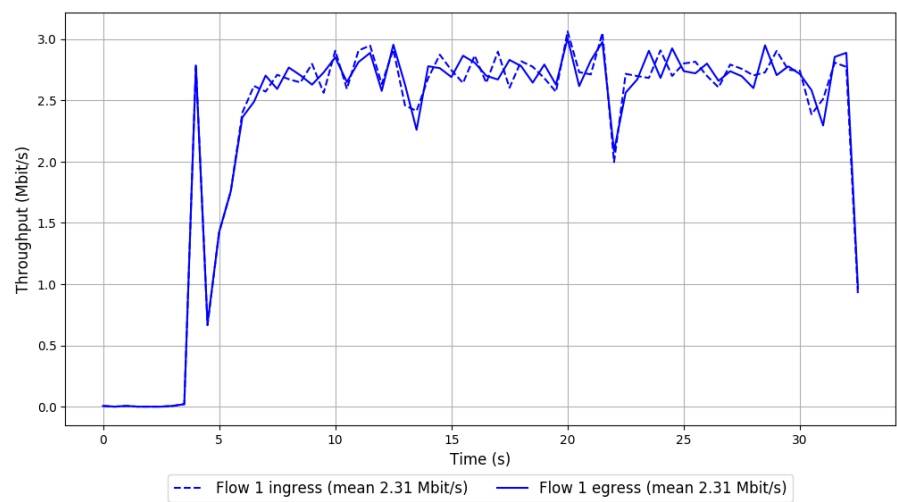


Run 6: Statistics of WebRTC media

Start at: 2018-01-09 00:01:31
End at: 2018-01-09 00:02:01
Local clock offset: -15.18 ms
Remote clock offset: -1.092 ms

Below is generated by plot.py at 2018-01-09 05:29:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 19.128 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 19.128 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

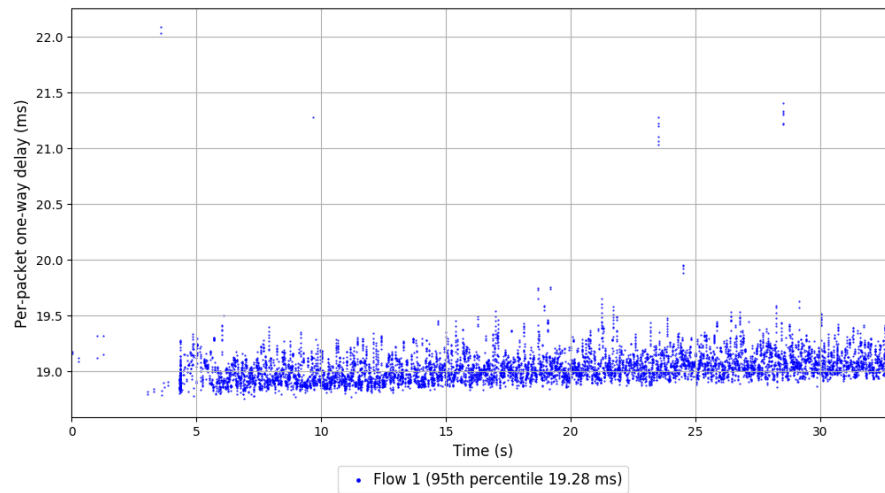
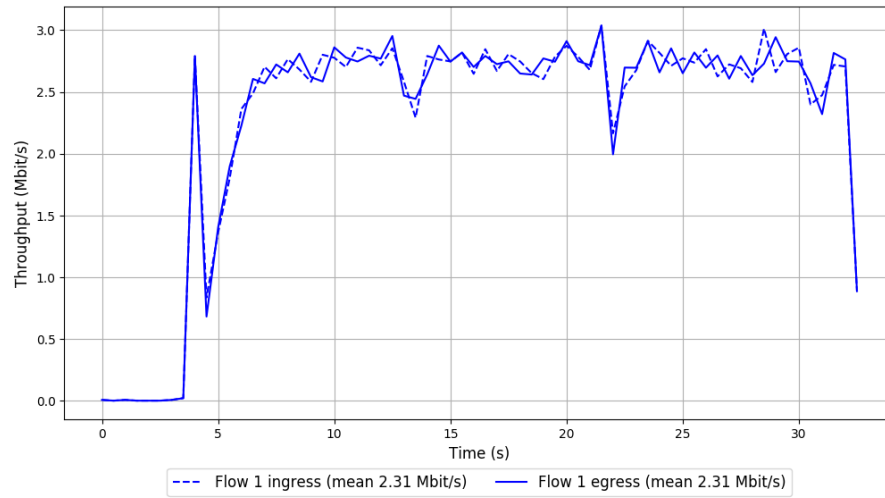


Run 7: Statistics of WebRTC media

Start at: 2018-01-09 00:21:28
End at: 2018-01-09 00:21:58
Local clock offset: -9.736 ms
Remote clock offset: -1.374 ms

Below is generated by plot.py at 2018-01-09 05:29:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 19.276 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 19.276 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

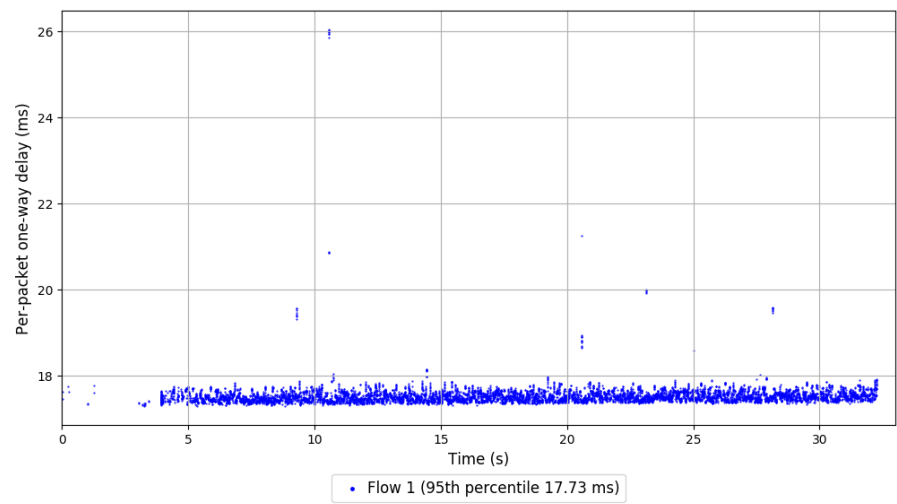
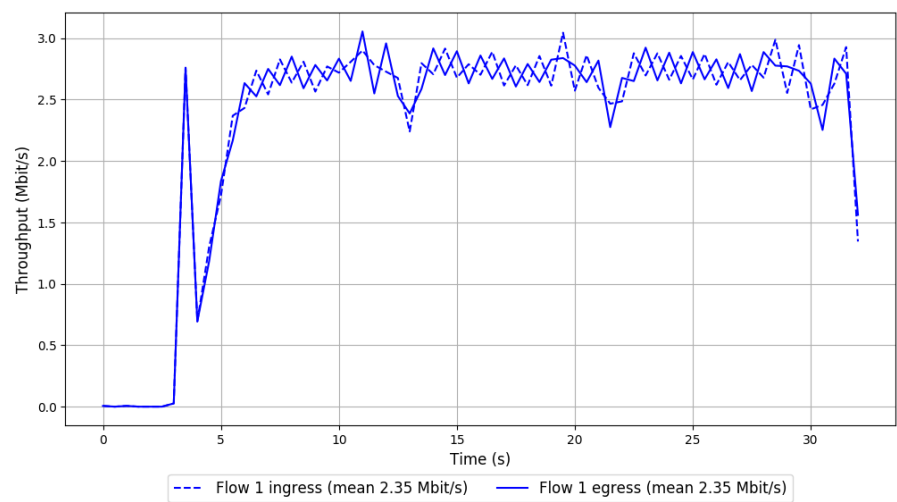


Run 8: Statistics of WebRTC media

Start at: 2018-01-09 00:41:33
End at: 2018-01-09 00:42:03
Local clock offset: -6.643 ms
Remote clock offset: -2.161 ms

Below is generated by plot.py at 2018-01-09 05:29:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 17.725 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 17.725 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-09 01:01:30

End at: 2018-01-09 01:02:00

Local clock offset: -3.848 ms

Remote clock offset: -2.19 ms

Below is generated by plot.py at 2018-01-09 05:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 19.135 ms

Loss rate: 0.00%

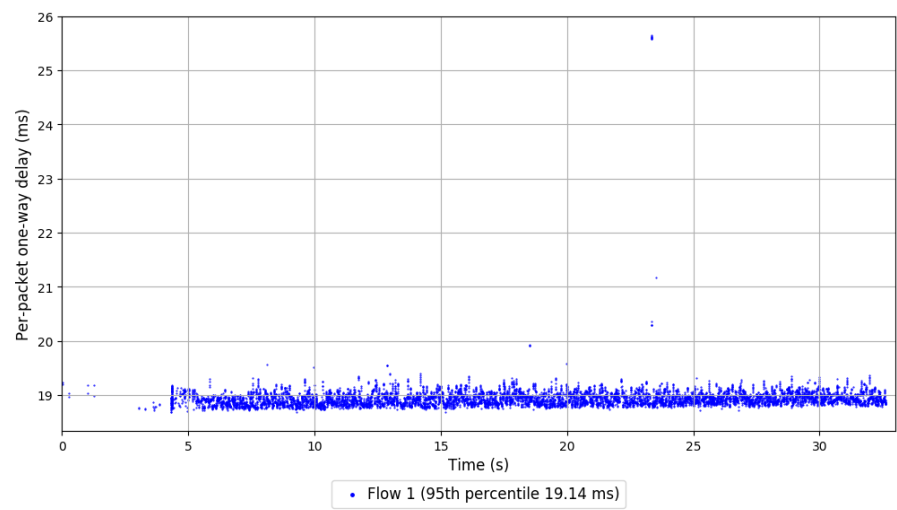
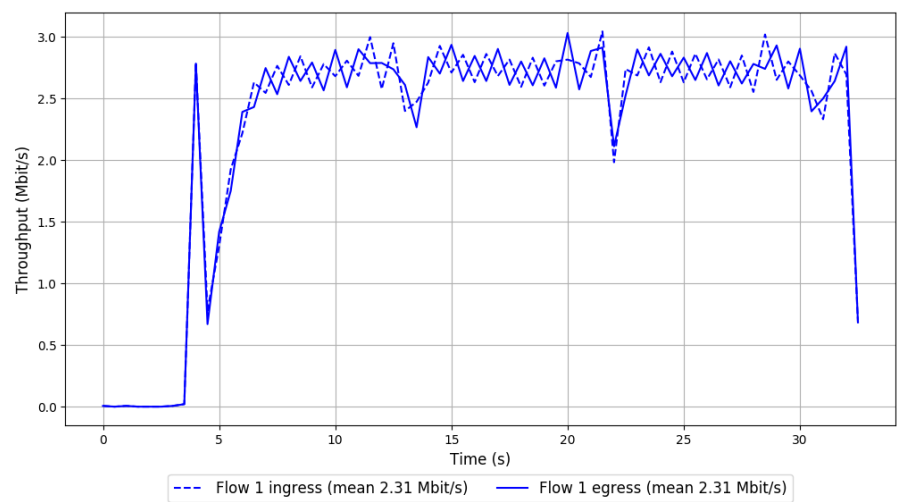
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 19.135 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-09 01:21:42

End at: 2018-01-09 01:22:12

Local clock offset: -1.956 ms

Remote clock offset: -1.807 ms

Below is generated by plot.py at 2018-01-09 05:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.75 Mbit/s

95th percentile per-packet one-way delay: 19.094 ms

Loss rate: 0.12%

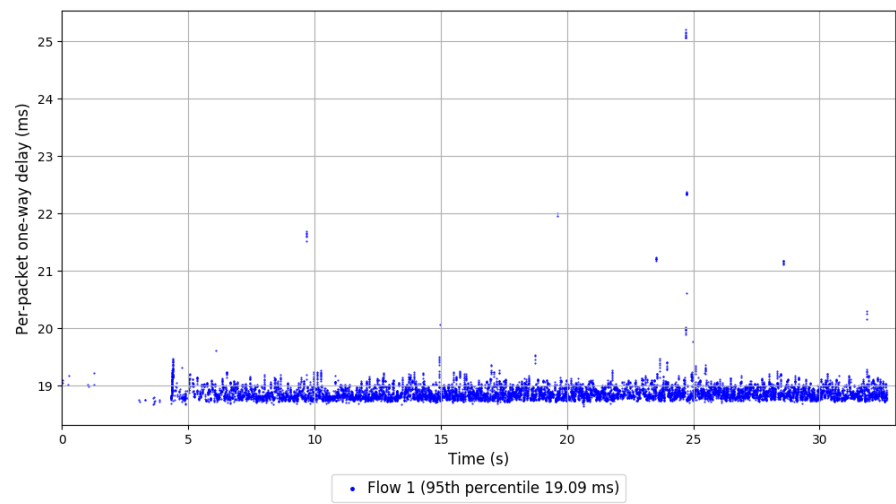
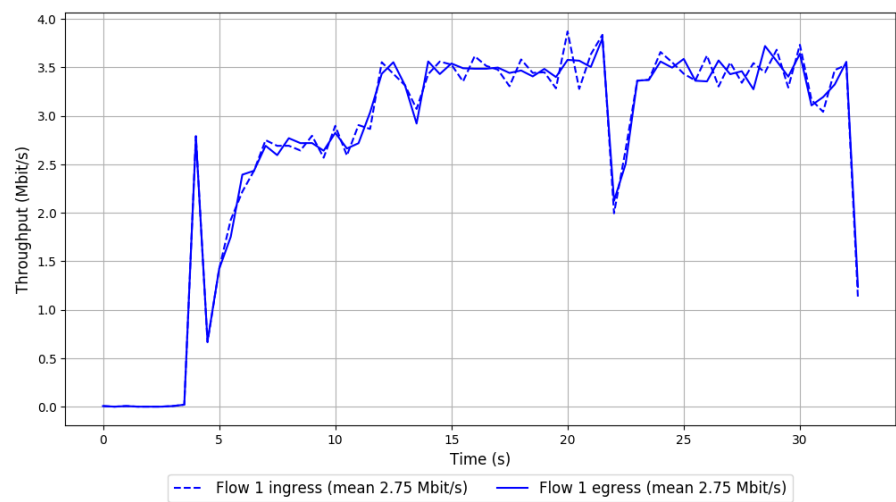
-- Flow 1:

Average throughput: 2.75 Mbit/s

95th percentile per-packet one-way delay: 19.094 ms

Loss rate: 0.12%

Run 10: Report of WebRTC media — Data Link

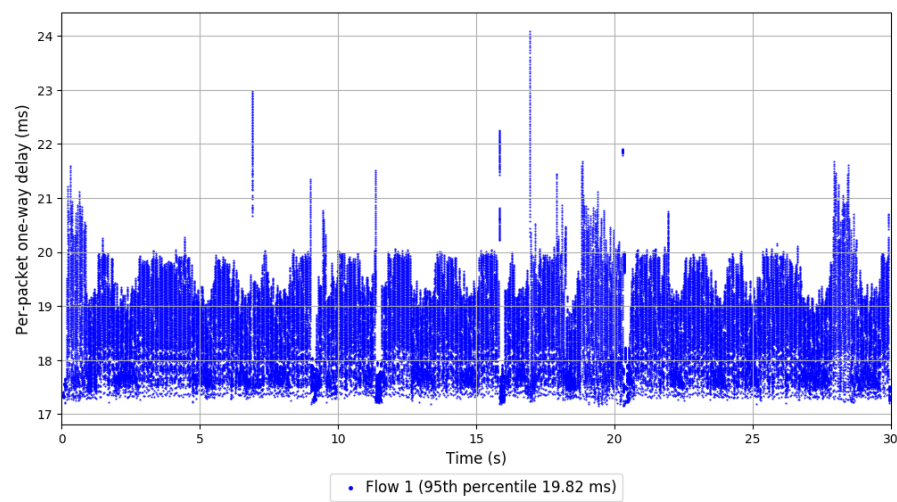
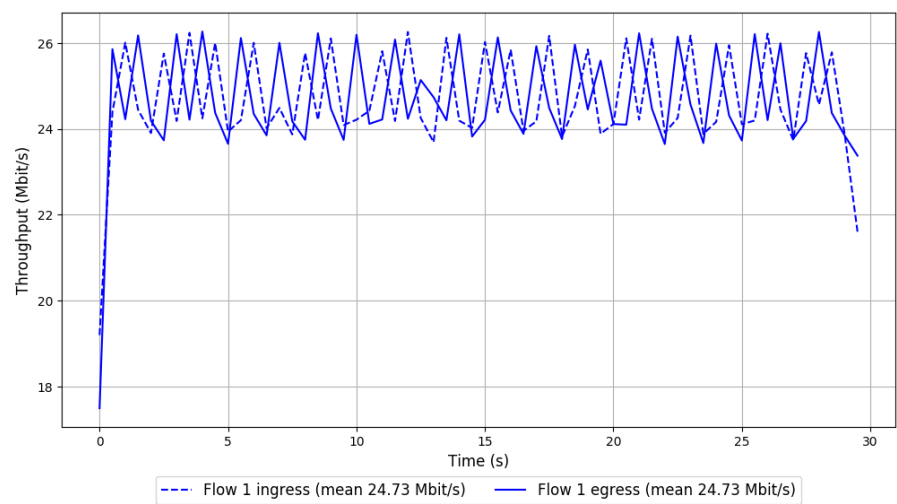


Run 1: Statistics of Sprout

Start at: 2018-01-08 22:14:11
End at: 2018-01-08 22:14:41
Local clock offset: -16.852 ms
Remote clock offset: -1.53 ms

Below is generated by plot.py at 2018-01-09 05:29:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.73 Mbit/s
95th percentile per-packet one-way delay: 19.824 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.73 Mbit/s
95th percentile per-packet one-way delay: 19.824 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

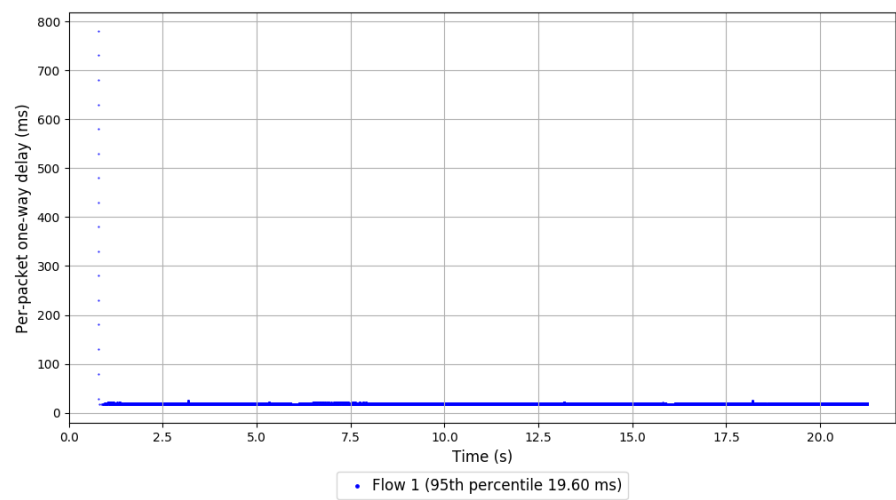
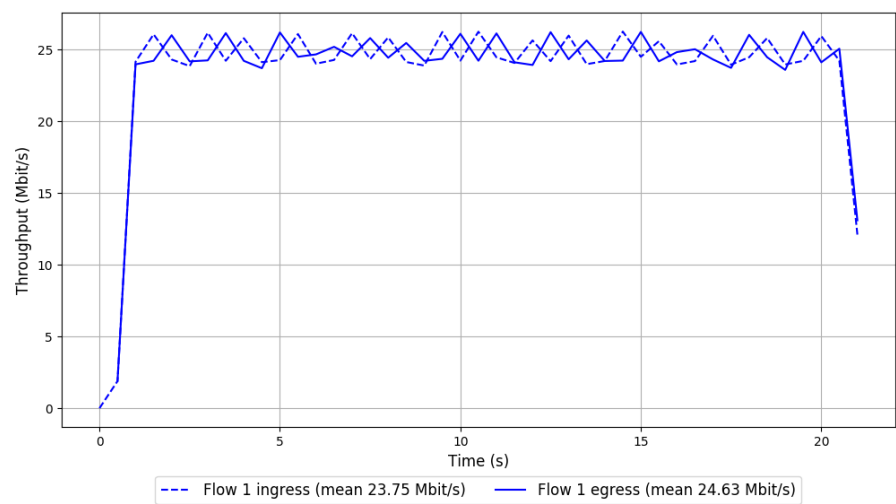
Start at: 2018-01-08 22:34:16

End at: 2018-01-08 22:34:46

Local clock offset: -19.17 ms

Remote clock offset: -1.903 ms

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

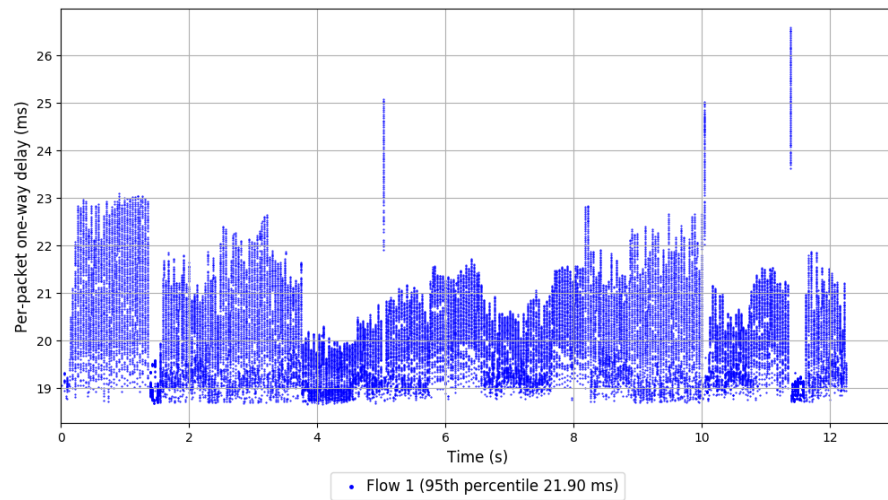
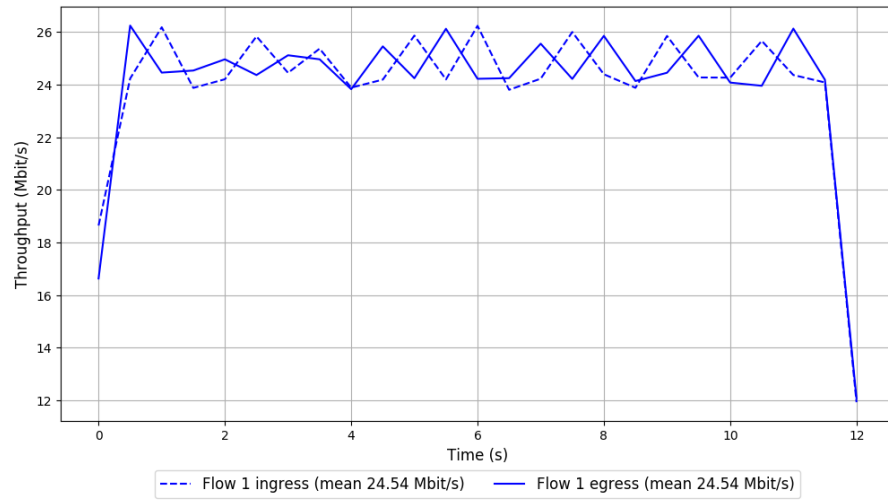
Start at: 2018-01-08 22:54:22

End at: 2018-01-08 22:54:52

Local clock offset: -21.426 ms

Remote clock offset: -1.735 ms

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

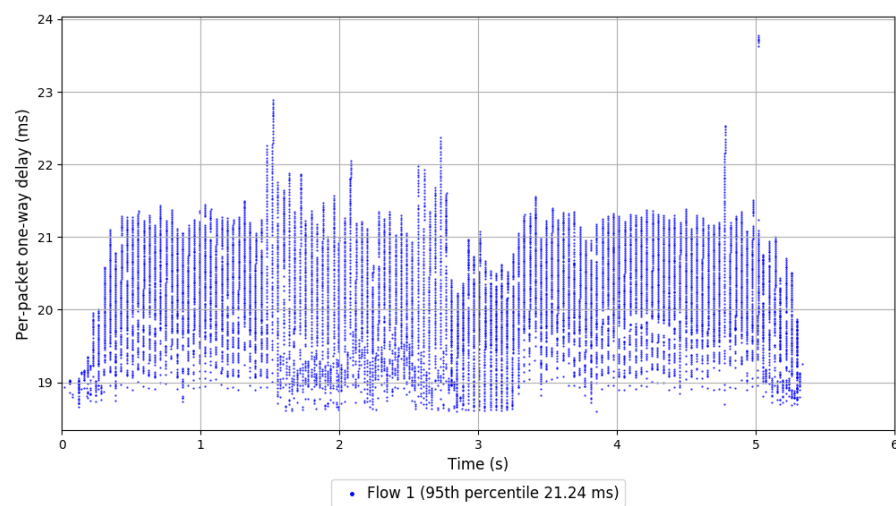
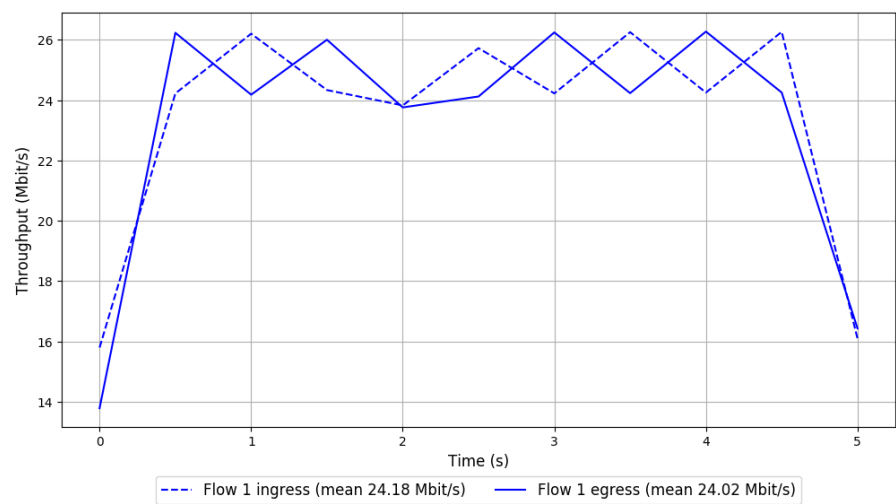
Start at: 2018-01-08 23:14:29

End at: 2018-01-08 23:14:59

Local clock offset: -22.65 ms

Remote clock offset: -1.462 ms

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

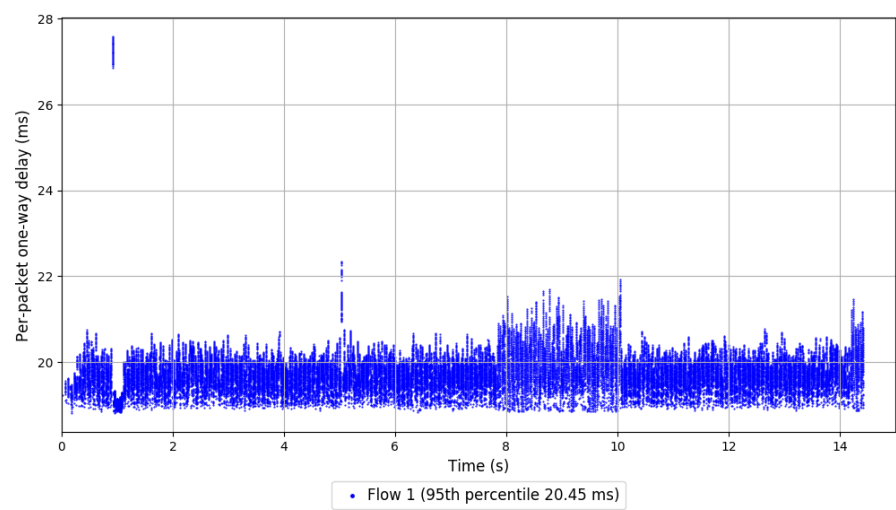
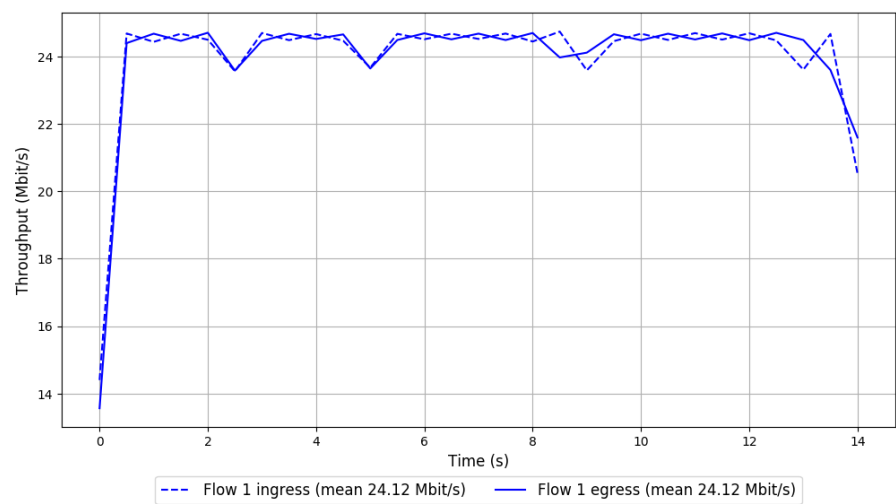
Start at: 2018-01-08 23:34:57

End at: 2018-01-08 23:35:27

Local clock offset: -23.973 ms

Remote clock offset: -1.652 ms

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

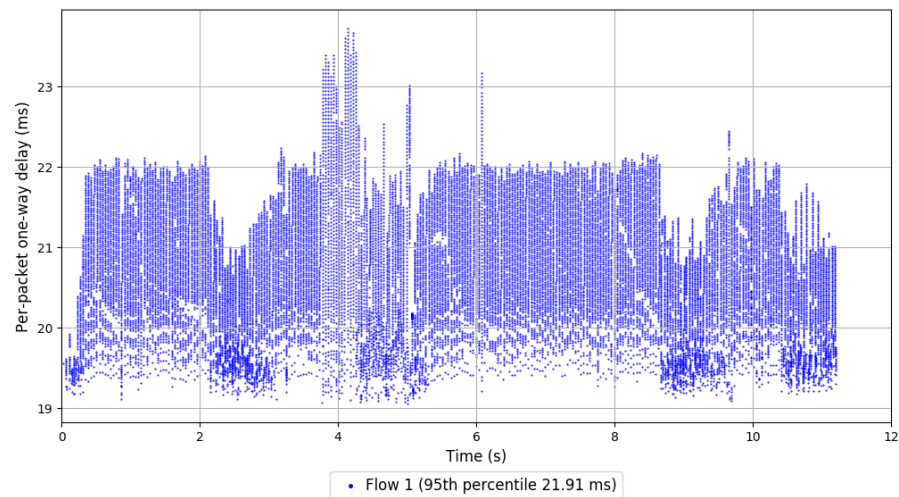
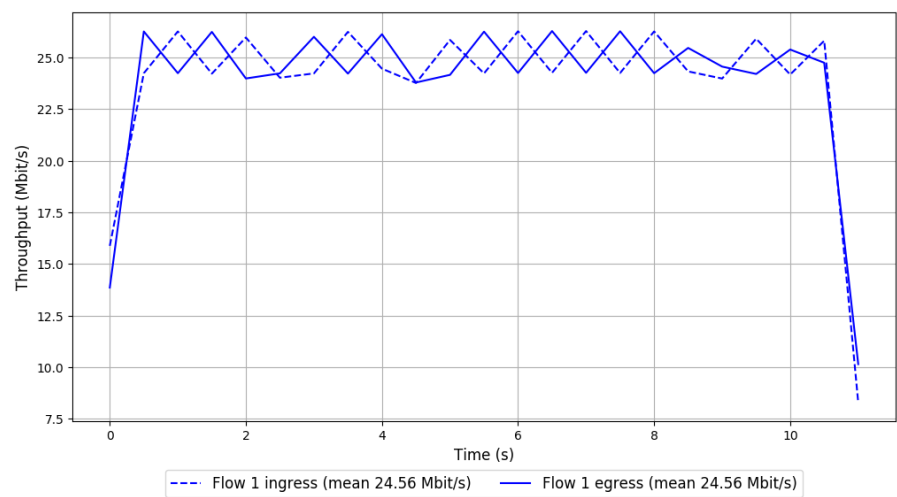
Start at: 2018-01-08 23:54:56

End at: 2018-01-08 23:55:26

Local clock offset: -16.917 ms

Remote clock offset: -1.181 ms

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

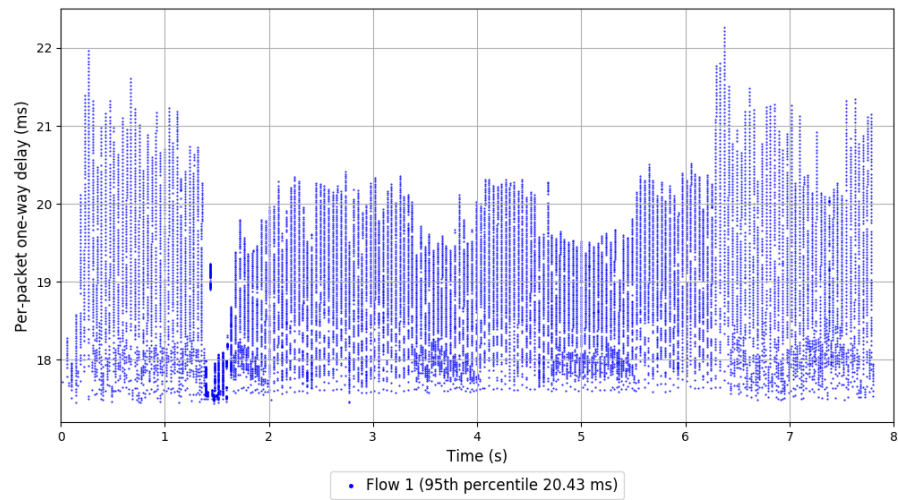
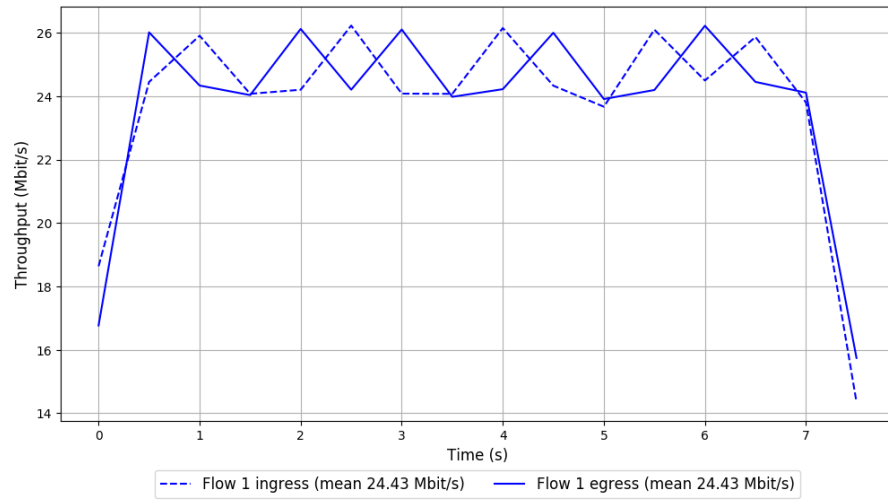
Start at: 2018-01-09 00:14:53

End at: 2018-01-09 00:15:23

Local clock offset: -11.564 ms

Remote clock offset: -1.476 ms

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

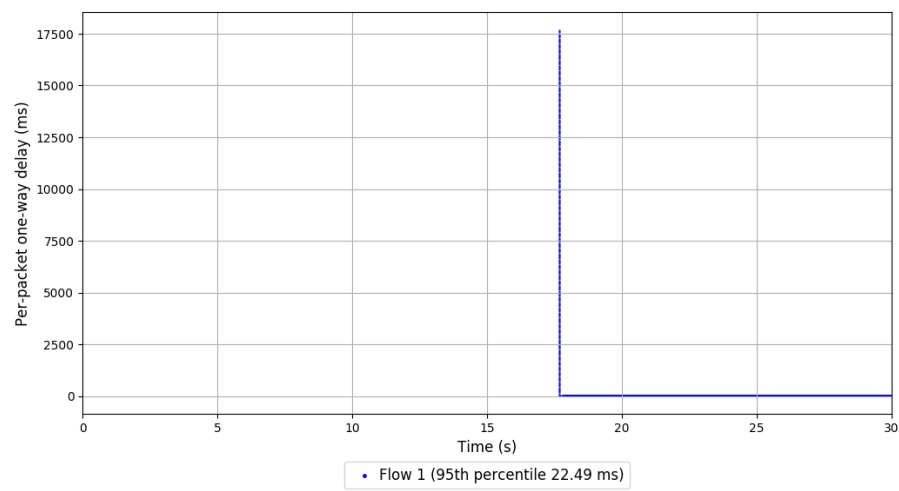
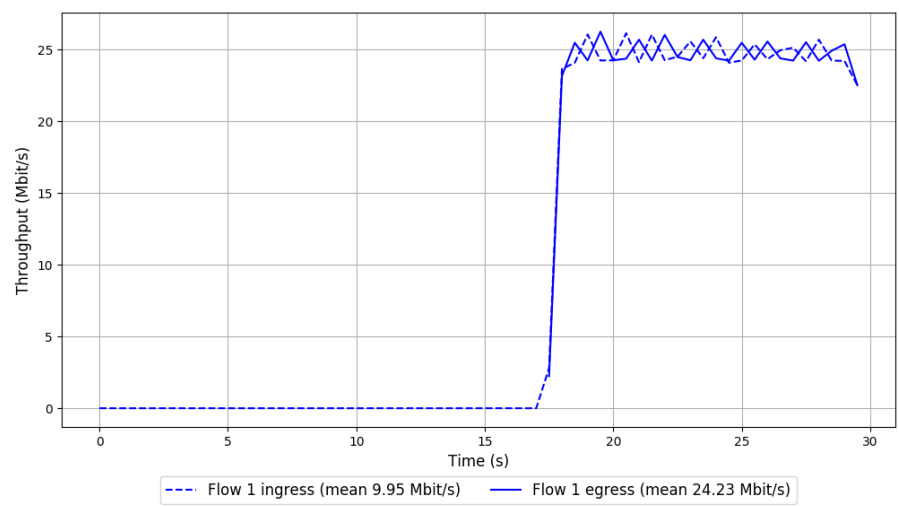
Start at: 2018-01-09 00:34:44

End at: 2018-01-09 00:35:14

Local clock offset: -7.289 ms

Remote clock offset: -1.93 ms

Run 8: Report of Sprout — Data Link

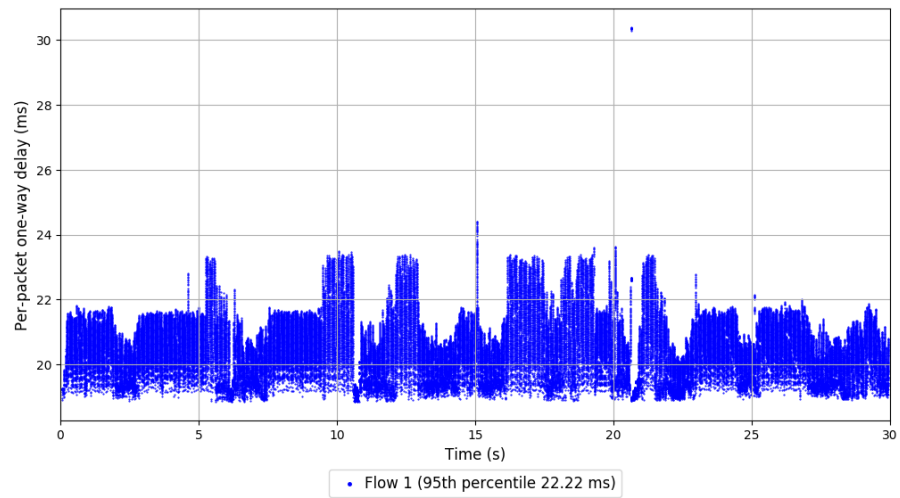
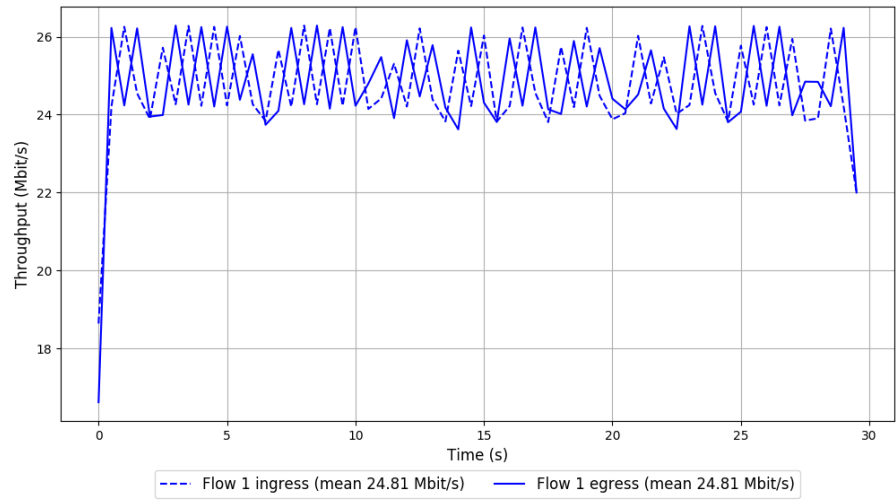


Run 9: Statistics of Sprout

Start at: 2018-01-09 00:54:55
End at: 2018-01-09 00:55:25
Local clock offset: -4.963 ms
Remote clock offset: -2.236 ms

Below is generated by plot.py at 2018-01-09 05:29:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.81 Mbit/s
95th percentile per-packet one-way delay: 22.220 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 24.81 Mbit/s
95th percentile per-packet one-way delay: 22.220 ms
Loss rate: 0.01%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

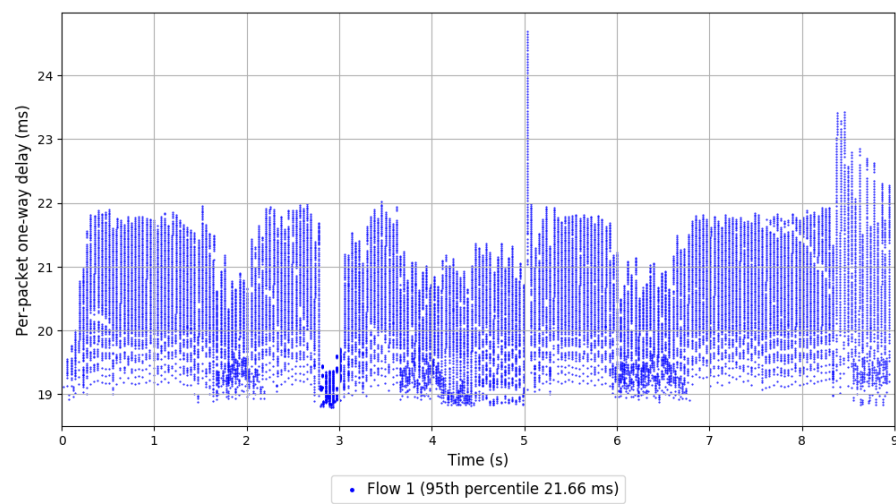
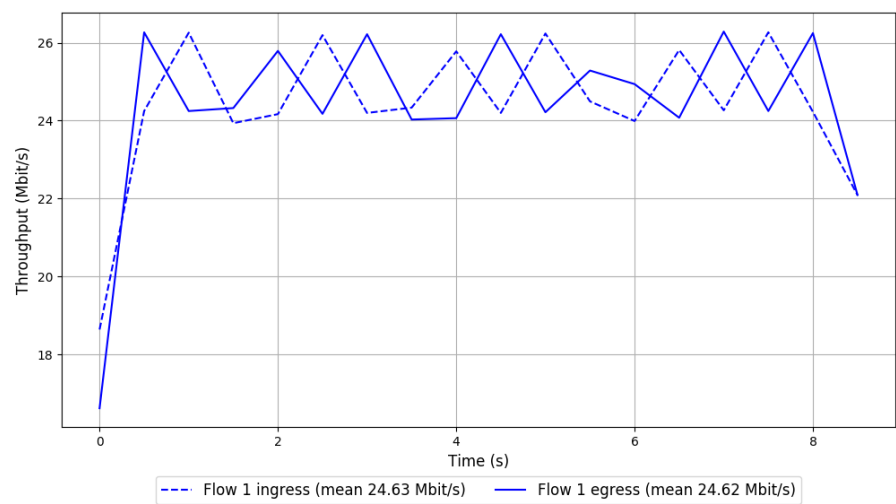
Start at: 2018-01-09 01:14:52

End at: 2018-01-09 01:15:22

Local clock offset: -2.467 ms

Remote clock offset: -2.007 ms

Run 10: Report of Sprout — Data Link

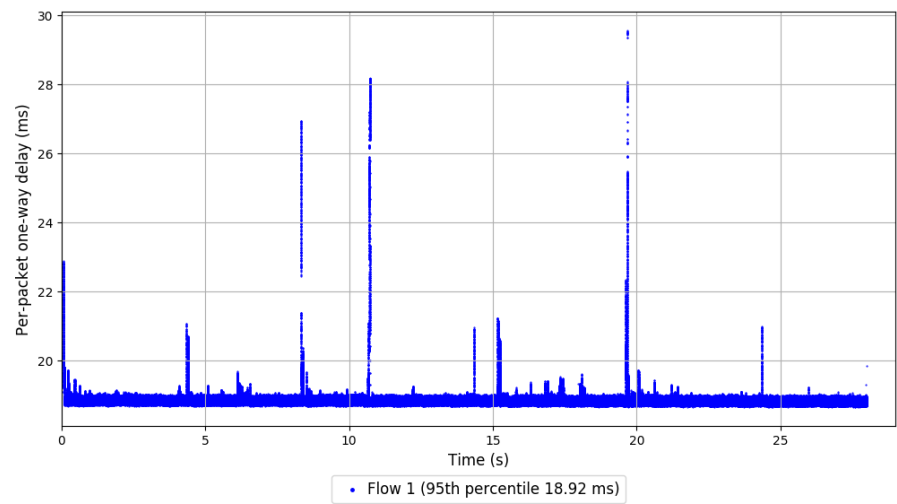
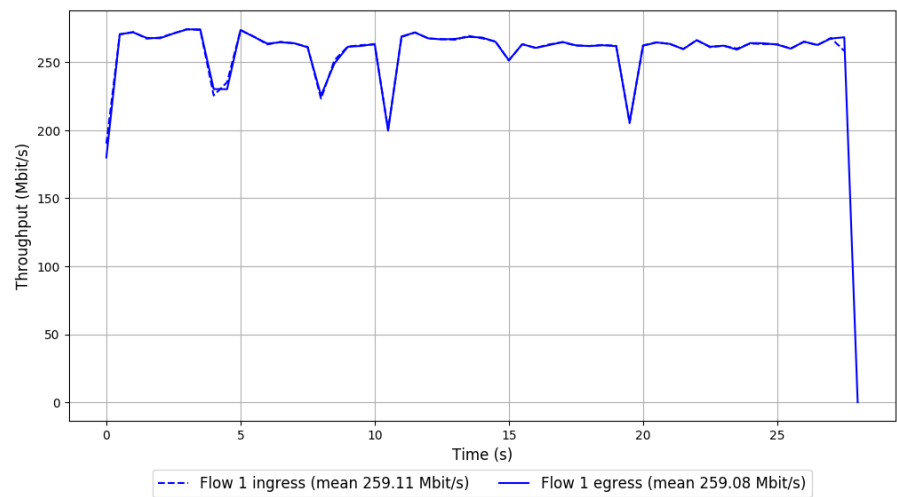


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-08 22:19:25
End at: 2018-01-08 22:19:55
Local clock offset: -17.463 ms
Remote clock offset: -1.643 ms

# Below is generated by plot.py at 2018-01-09 05:29:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 259.08 Mbit/s
95th percentile per-packet one-way delay: 18.922 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 259.08 Mbit/s
95th percentile per-packet one-way delay: 18.922 ms
Loss rate: 0.01%
```


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



Run 2: Statistics of TaoVA-100x

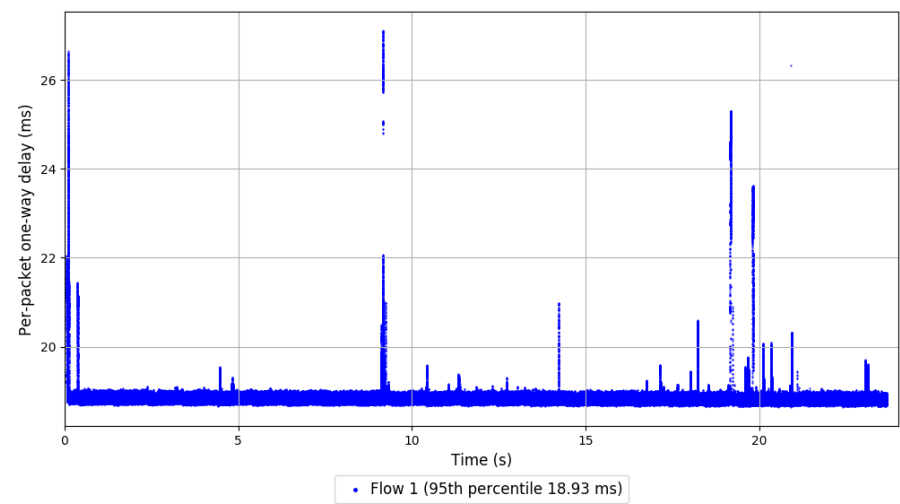
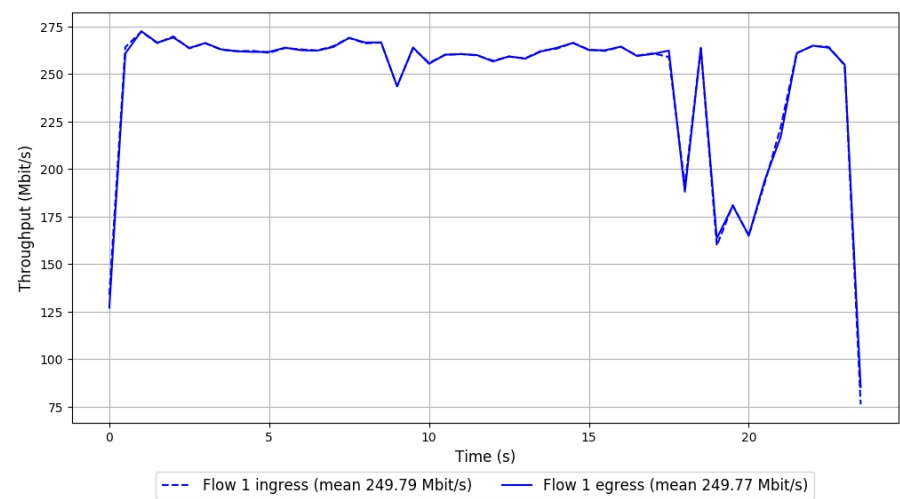
Start at: 2018-01-08 22:39:40

End at: 2018-01-08 22:40:10

Local clock offset: -19.874 ms

Remote clock offset: -1.856 ms

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



Run 3: Statistics of TaoVA-100x

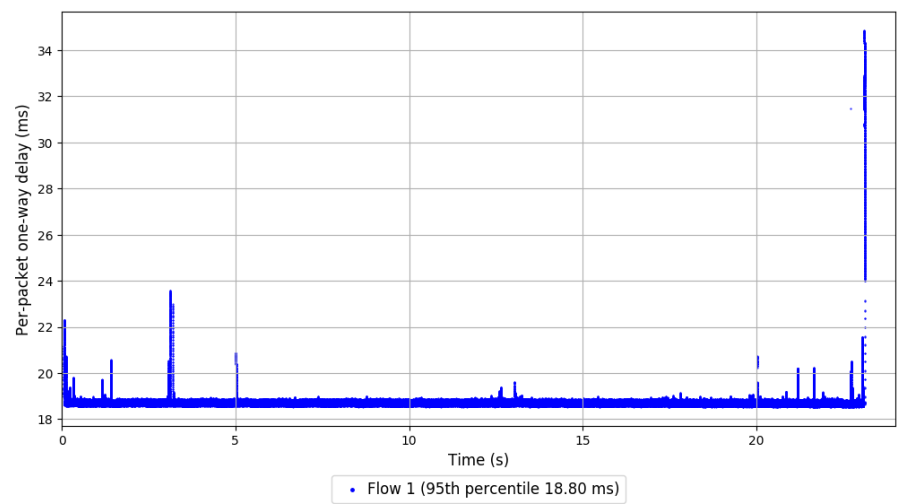
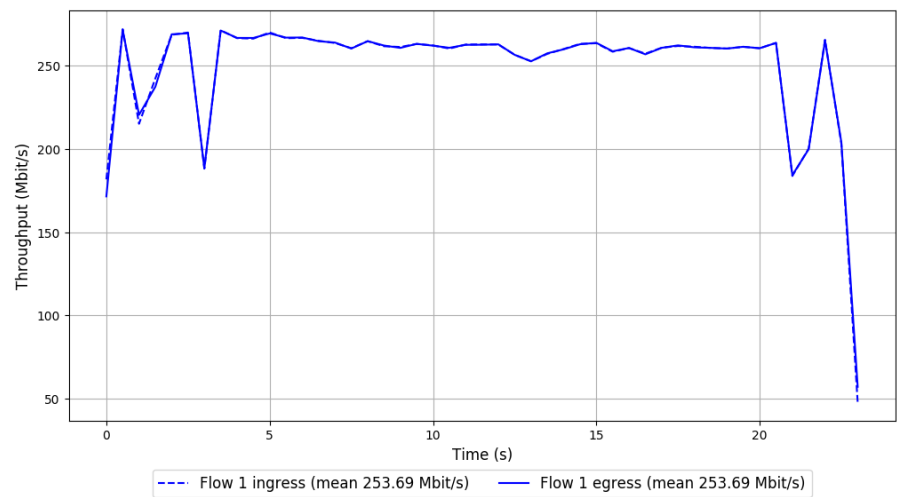
Start at: 2018-01-08 22:59:46

End at: 2018-01-08 23:00:16

Local clock offset: -21.568 ms

Remote clock offset: -1.568 ms

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



Run 4: Statistics of TaoVA-100x

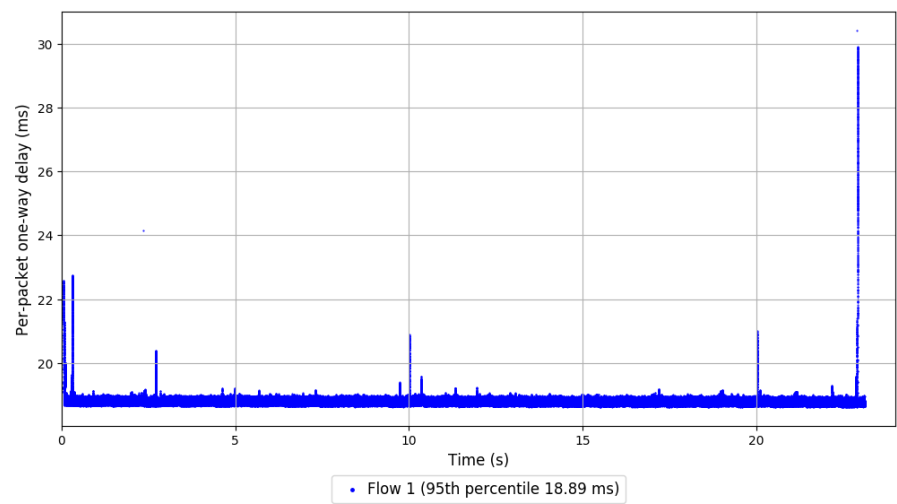
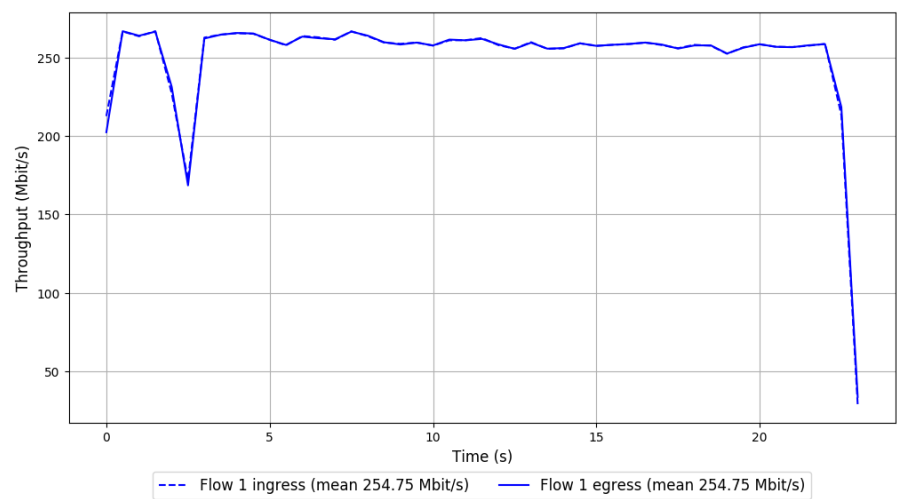
Start at: 2018-01-08 23:19:53

End at: 2018-01-08 23:20:23

Local clock offset: -23.33 ms

Remote clock offset: -1.585 ms

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



Run 5: Statistics of TaoVA-100x

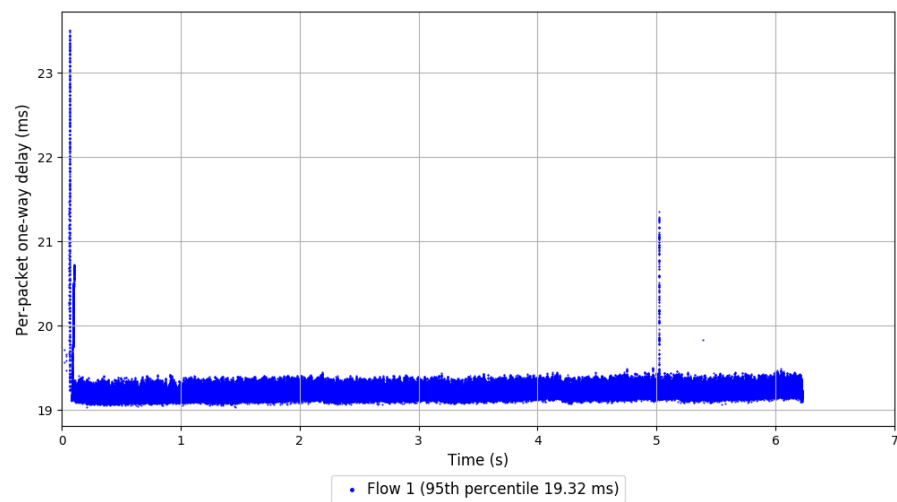
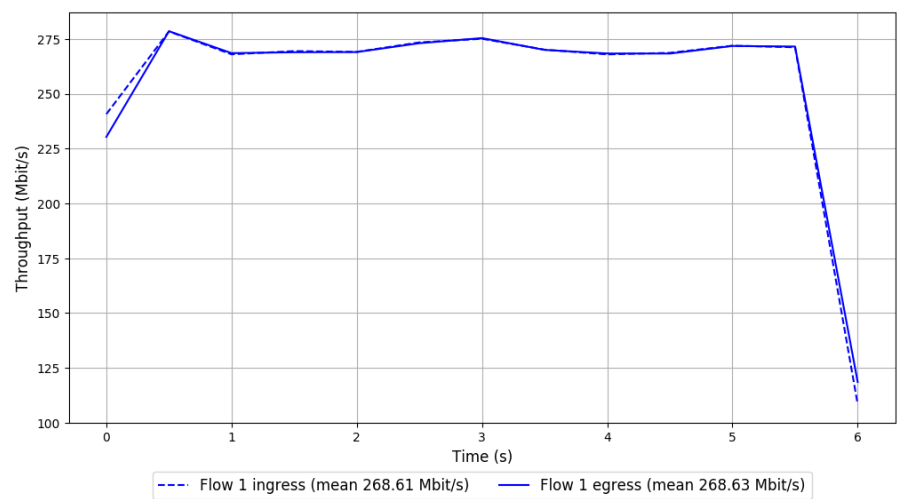
Start at: 2018-01-08 23:40:20

End at: 2018-01-08 23:40:50

Local clock offset: -22.622 ms

Remote clock offset: -1.608 ms

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



Run 6: Statistics of TaoVA-100x

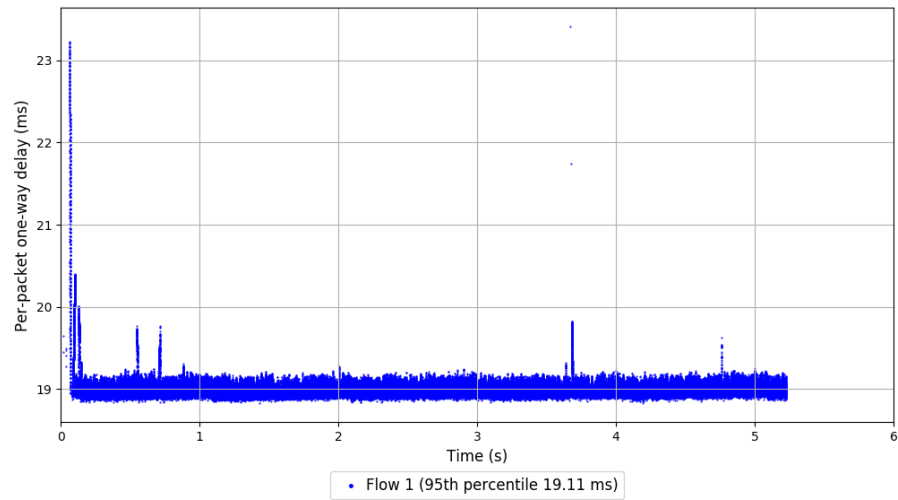
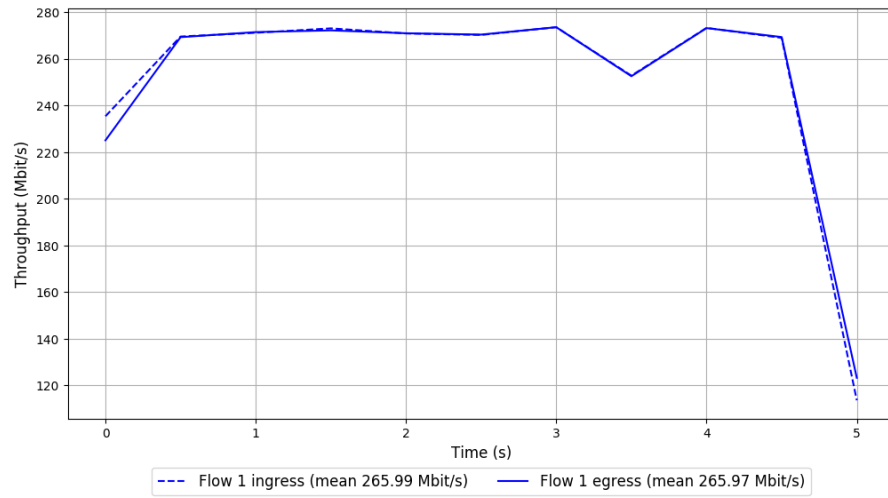
Start at: 2018-01-09 00:00:18

End at: 2018-01-09 00:00:48

Local clock offset: -15.471 ms

Remote clock offset: -1.027 ms

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



Run 7: Statistics of TaoVA-100x

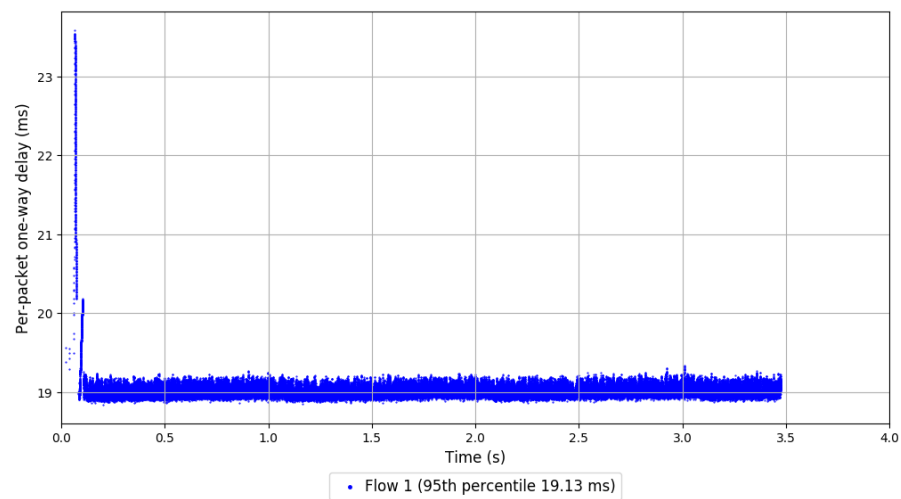
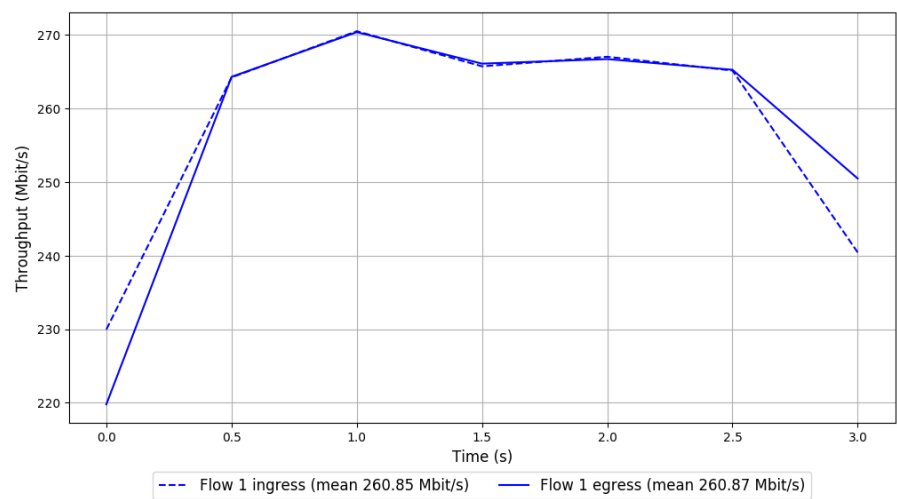
Start at: 2018-01-09 00:20:16

End at: 2018-01-09 00:20:46

Local clock offset: -10.028 ms

Remote clock offset: -1.294 ms

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



Run 8: Statistics of TaoVA-100x

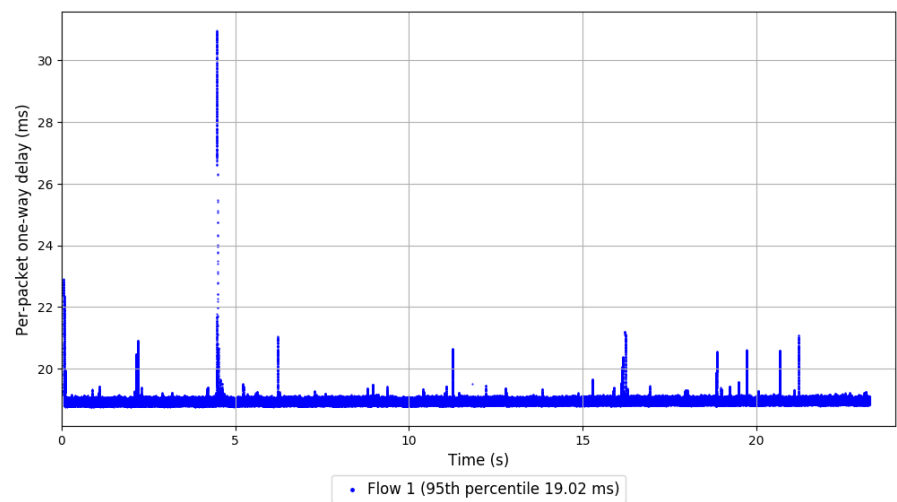
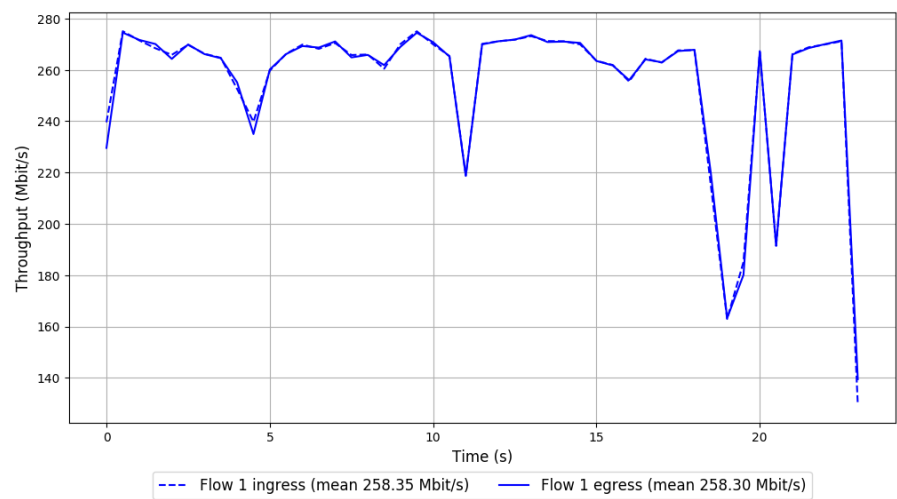
Start at: 2018-01-09 00:40:08

End at: 2018-01-09 00:40:38

Local clock offset: -6.781 ms

Remote clock offset: -2.112 ms

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



Run 9: Statistics of TaoVA-100x

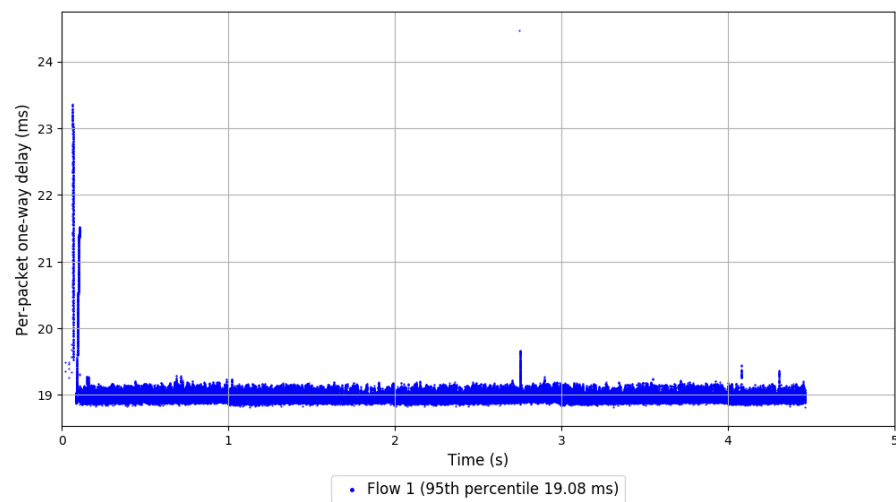
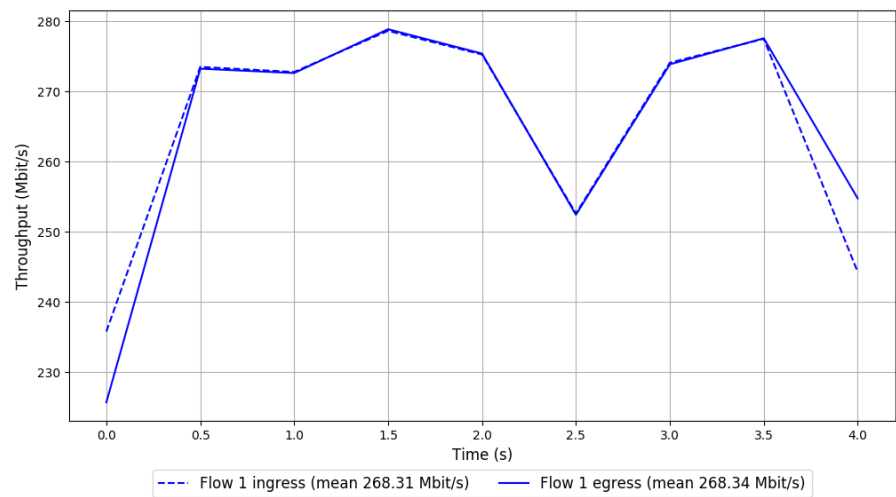
Start at: 2018-01-09 01:00:17

End at: 2018-01-09 01:00:47

Local clock offset: -4.053 ms

Remote clock offset: -2.142 ms

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



Run 10: Statistics of TaoVA-100x

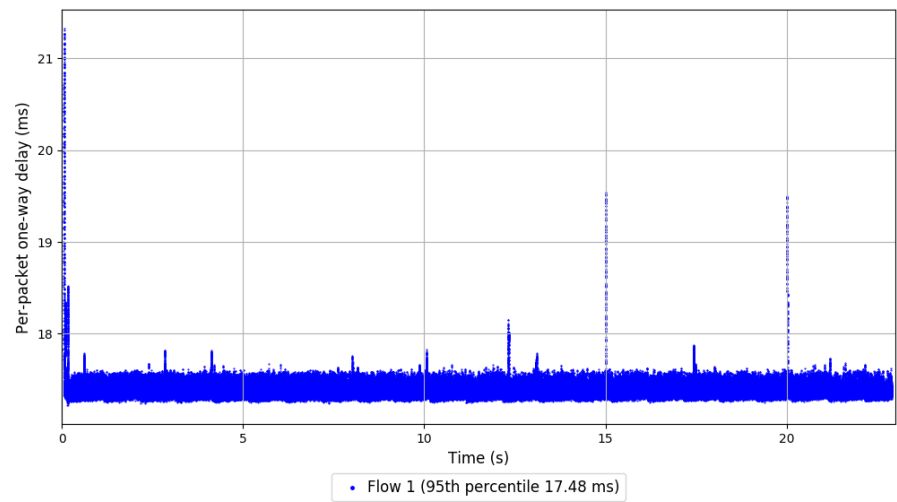
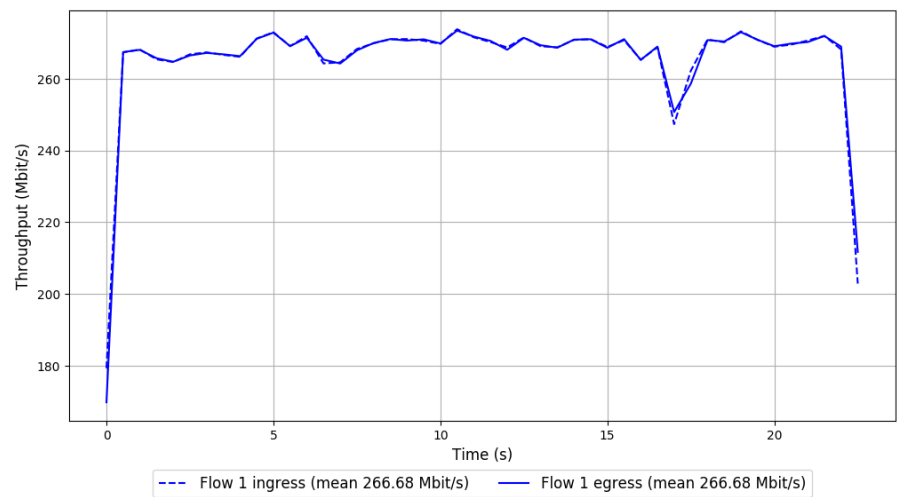
Start at: 2018-01-09 01:20:16

End at: 2018-01-09 01:20:46

Local clock offset: -1.952 ms

Remote clock offset: -1.792 ms

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

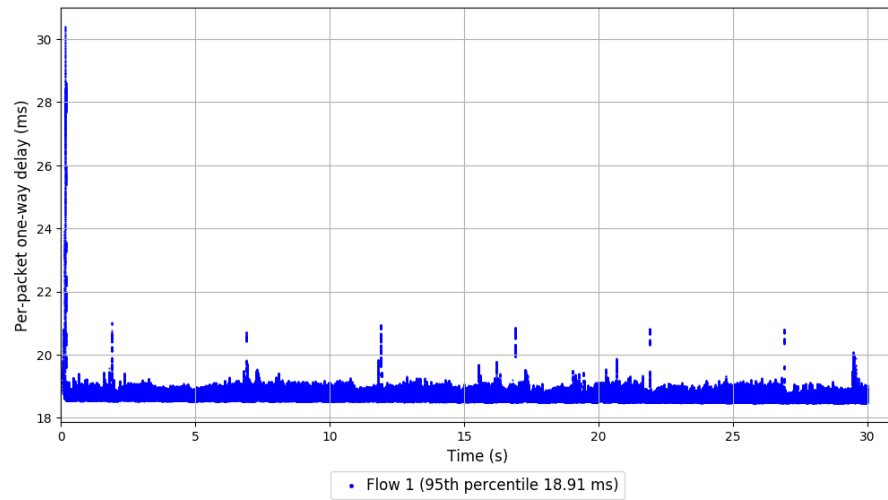
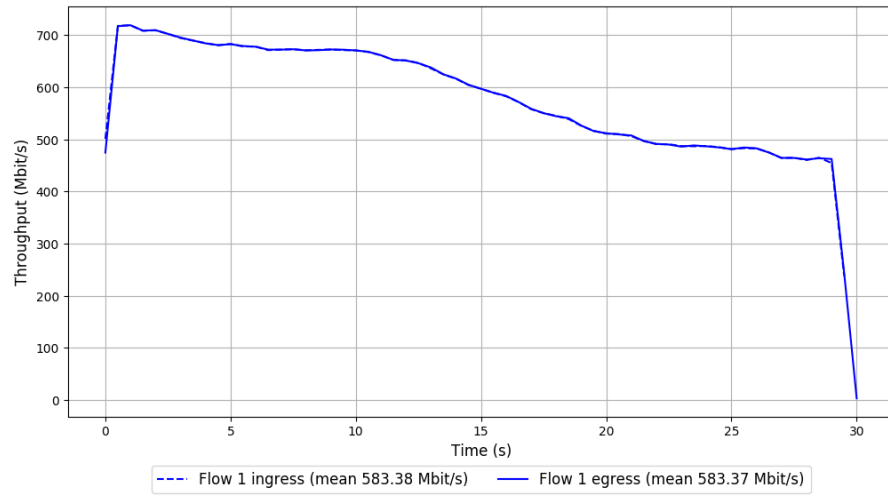


Run 1: Statistics of TCP Vegas

Start at: 2018-01-08 22:31:23
End at: 2018-01-08 22:31:53
Local clock offset: -18.742 ms
Remote clock offset: -1.972 ms

Below is generated by plot.py at 2018-01-09 05:33:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 583.37 Mbit/s
95th percentile per-packet one-way delay: 18.914 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 583.37 Mbit/s
95th percentile per-packet one-way delay: 18.914 ms
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link

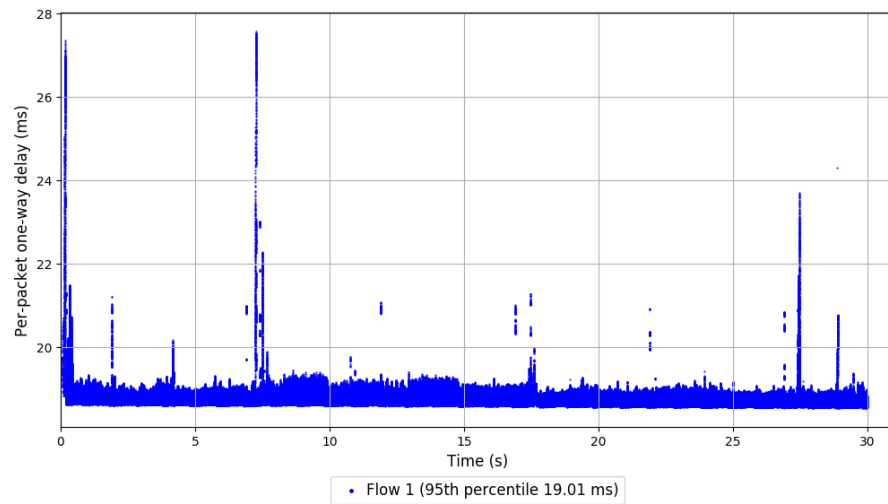
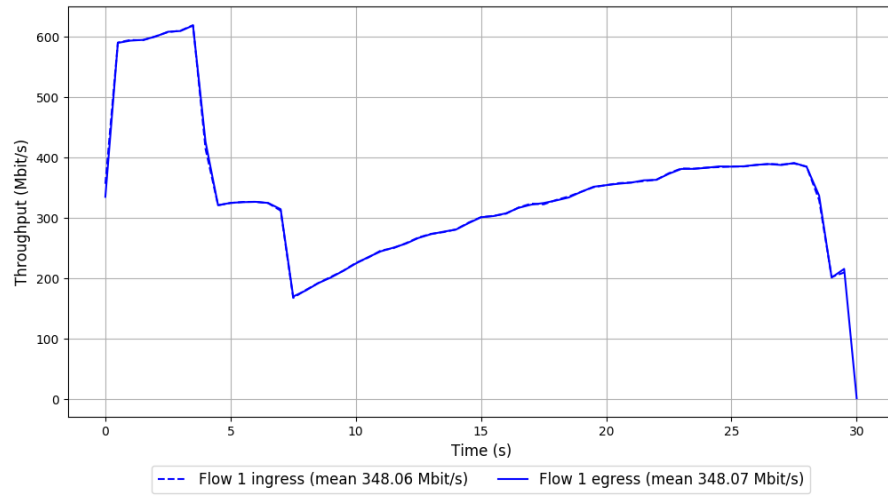


Run 2: Statistics of TCP Vegas

Start at: 2018-01-08 22:51:38
End at: 2018-01-08 22:52:08
Local clock offset: -21.089 ms
Remote clock offset: -1.8 ms

Below is generated by plot.py at 2018-01-09 05:33:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 348.07 Mbit/s
95th percentile per-packet one-way delay: 19.010 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 348.07 Mbit/s
95th percentile per-packet one-way delay: 19.010 ms
Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link

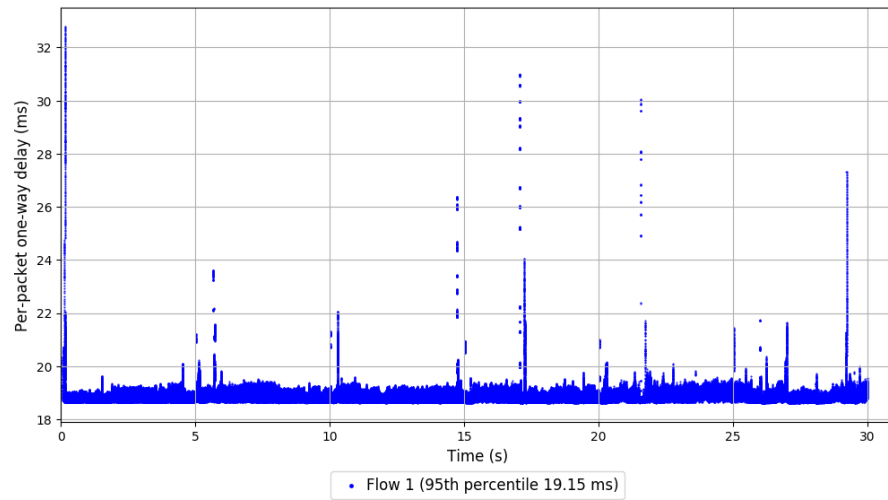
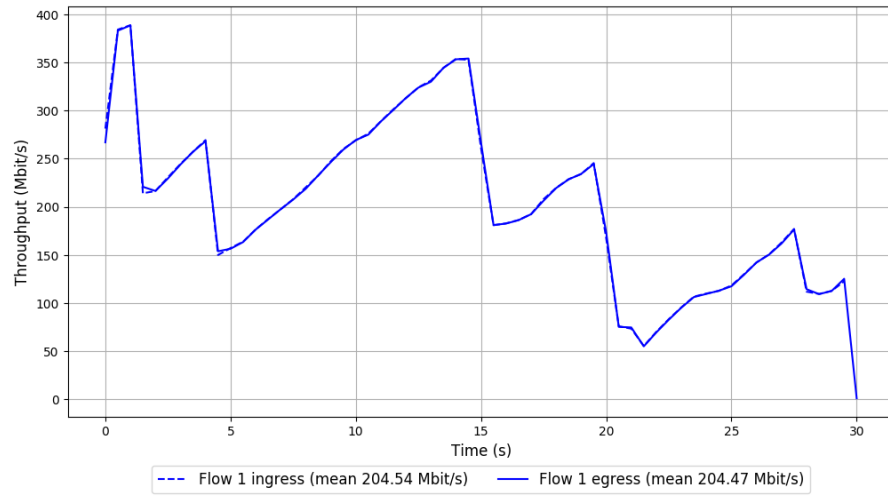


Run 3: Statistics of TCP Vegas

Start at: 2018-01-08 23:11:50
End at: 2018-01-08 23:12:20
Local clock offset: -22.392 ms
Remote clock offset: -1.307 ms

Below is generated by plot.py at 2018-01-09 05:33:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 204.47 Mbit/s
95th percentile per-packet one-way delay: 19.153 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 204.47 Mbit/s
95th percentile per-packet one-way delay: 19.153 ms
Loss rate: 0.04%

Run 3: Report of TCP Vegas — Data Link

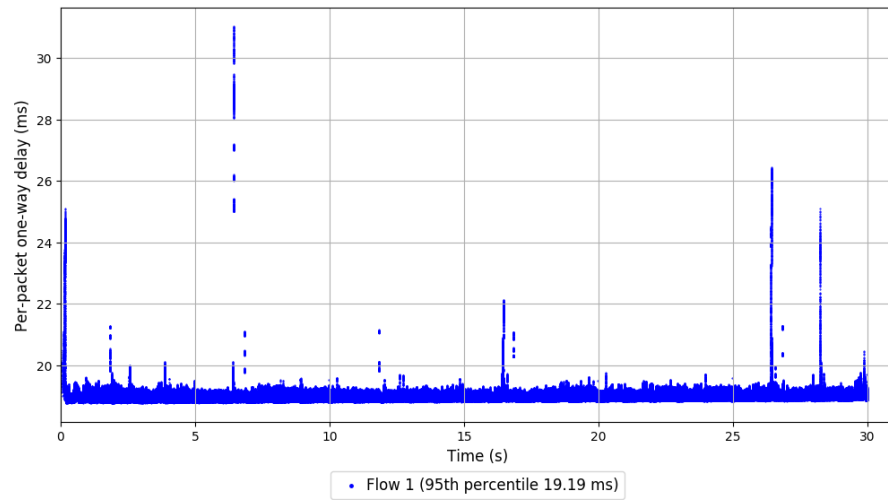
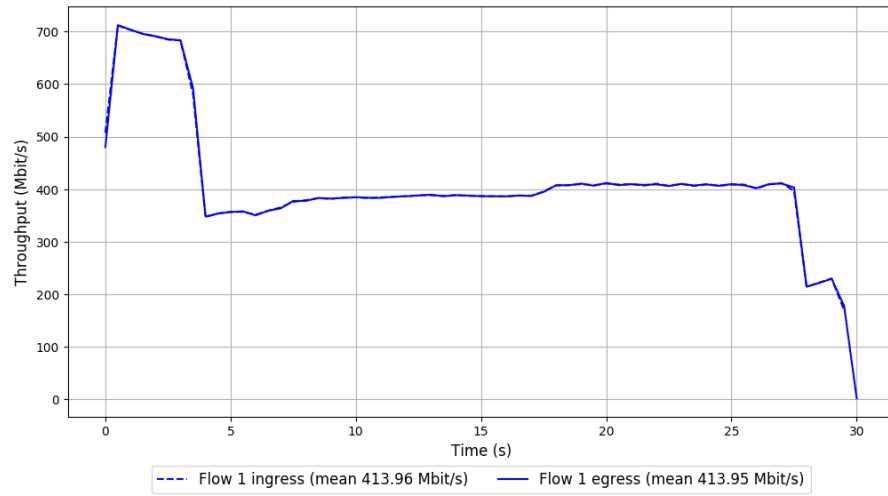


Run 4: Statistics of TCP Vegas

Start at: 2018-01-08 23:32:09
End at: 2018-01-08 23:32:39
Local clock offset: -24.357 ms
Remote clock offset: -1.591 ms

Below is generated by plot.py at 2018-01-09 05:34:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 413.95 Mbit/s
95th percentile per-packet one-way delay: 19.190 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 413.95 Mbit/s
95th percentile per-packet one-way delay: 19.190 ms
Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link

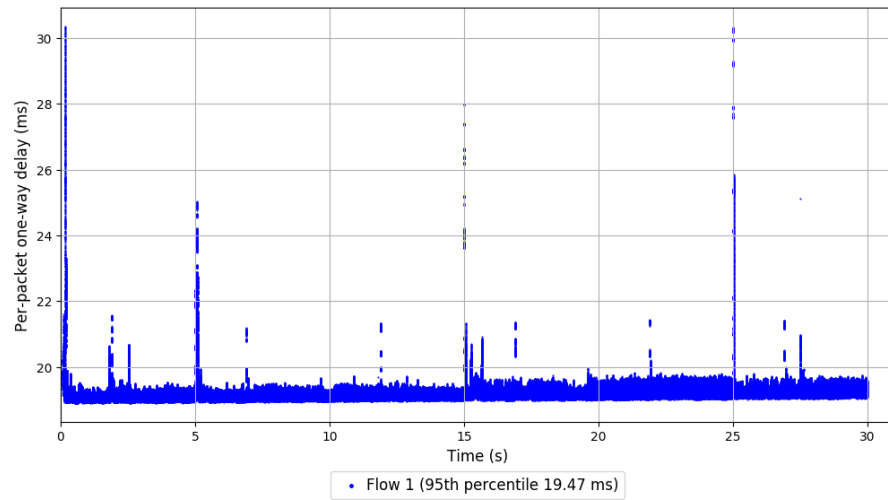
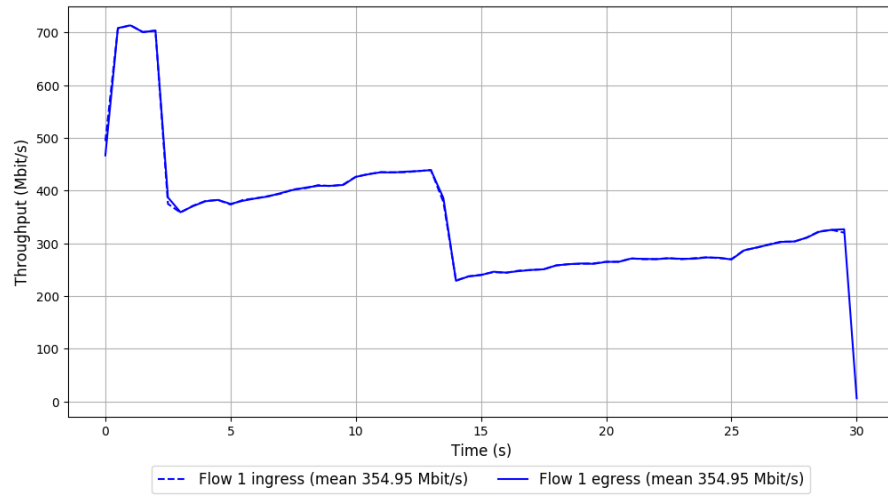


Run 5: Statistics of TCP Vegas

Start at: 2018-01-08 23:52:11
End at: 2018-01-08 23:52:41
Local clock offset: -17.684 ms
Remote clock offset: -1.227 ms

Below is generated by plot.py at 2018-01-09 05:35:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 354.95 Mbit/s
95th percentile per-packet one-way delay: 19.469 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 354.95 Mbit/s
95th percentile per-packet one-way delay: 19.469 ms
Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link

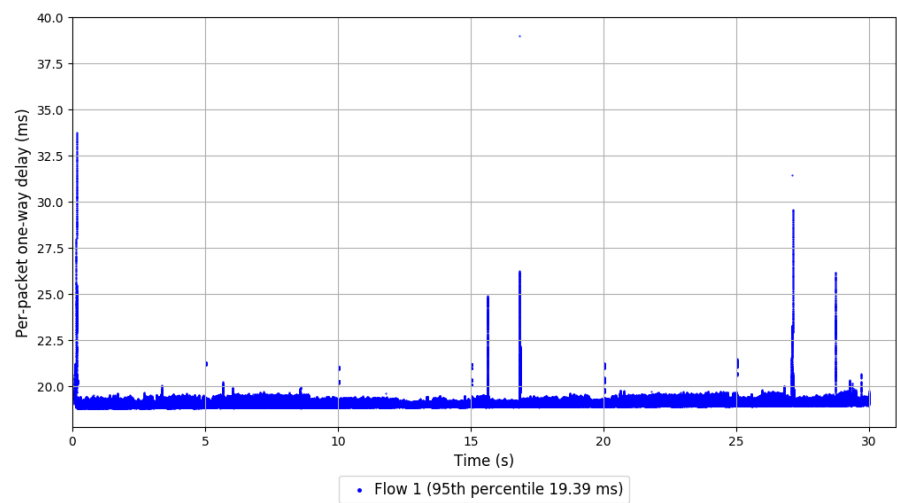
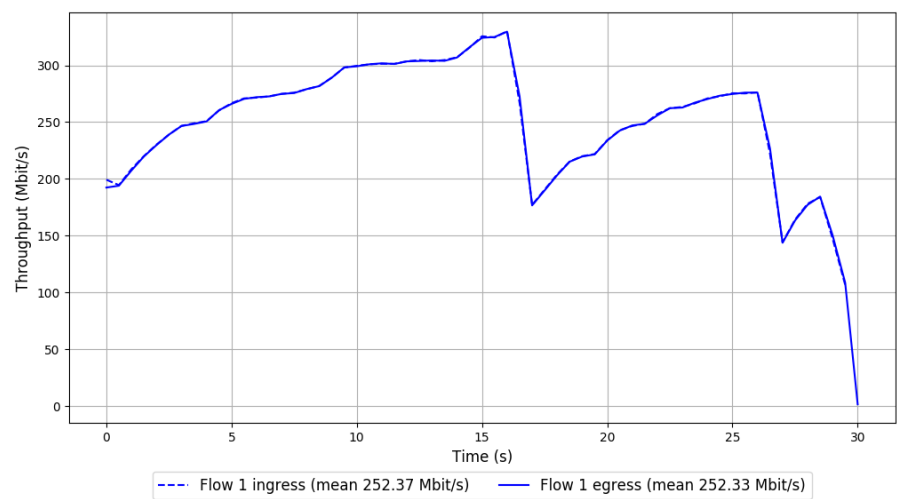


Run 6: Statistics of TCP Vegas

Start at: 2018-01-09 00:12:13
End at: 2018-01-09 00:12:43
Local clock offset: -12.377 ms
Remote clock offset: -1.377 ms

Below is generated by plot.py at 2018-01-09 05:35:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 252.33 Mbit/s
95th percentile per-packet one-way delay: 19.387 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 252.33 Mbit/s
95th percentile per-packet one-way delay: 19.387 ms
Loss rate: 0.02%

Run 6: Report of TCP Vegas — Data Link

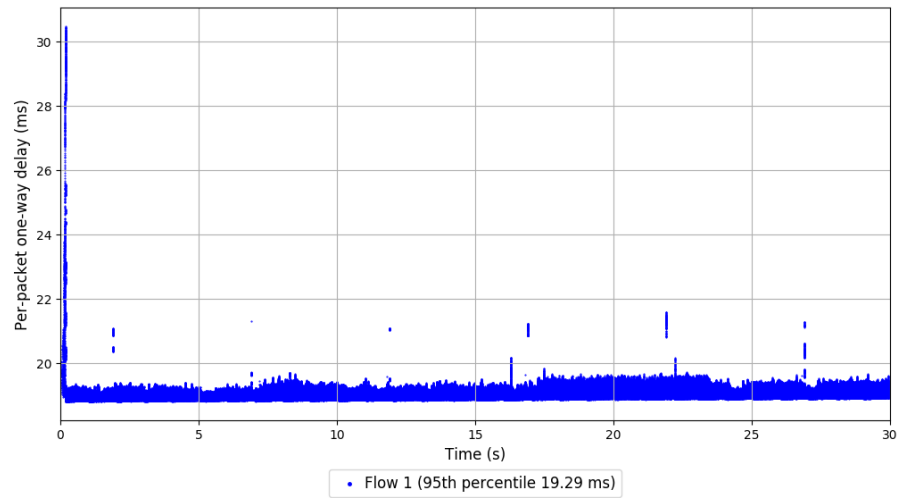
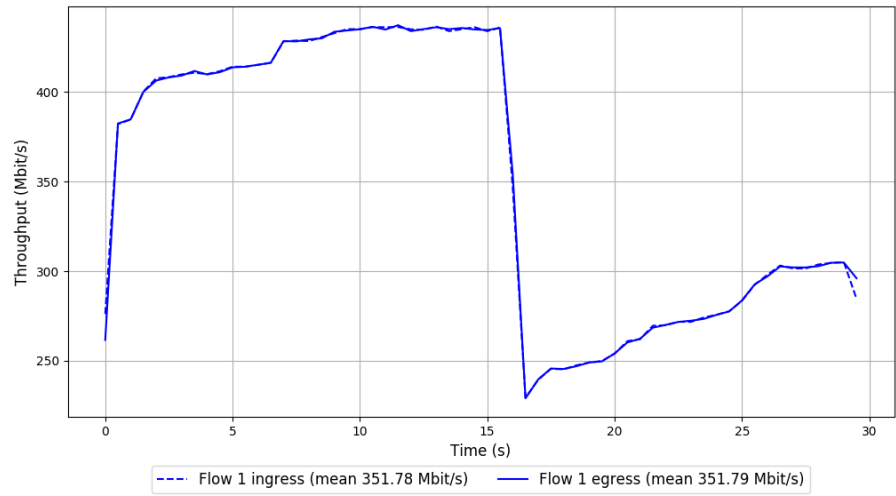


Run 7: Statistics of TCP Vegas

Start at: 2018-01-09 00:31:59
End at: 2018-01-09 00:32:29
Local clock offset: -7.675 ms
Remote clock offset: -1.75 ms

Below is generated by plot.py at 2018-01-09 05:35:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 351.79 Mbit/s
95th percentile per-packet one-way delay: 19.290 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 351.79 Mbit/s
95th percentile per-packet one-way delay: 19.290 ms
Loss rate: 0.01%

Run 7: Report of TCP Vegas — Data Link

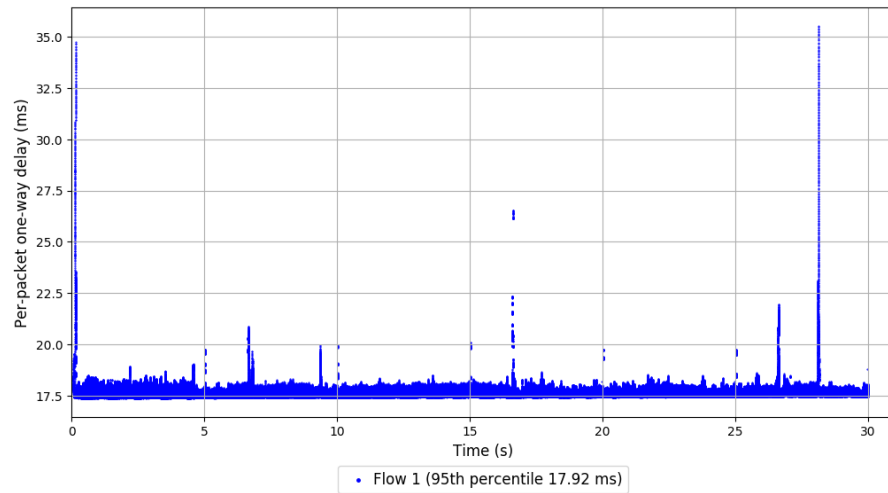
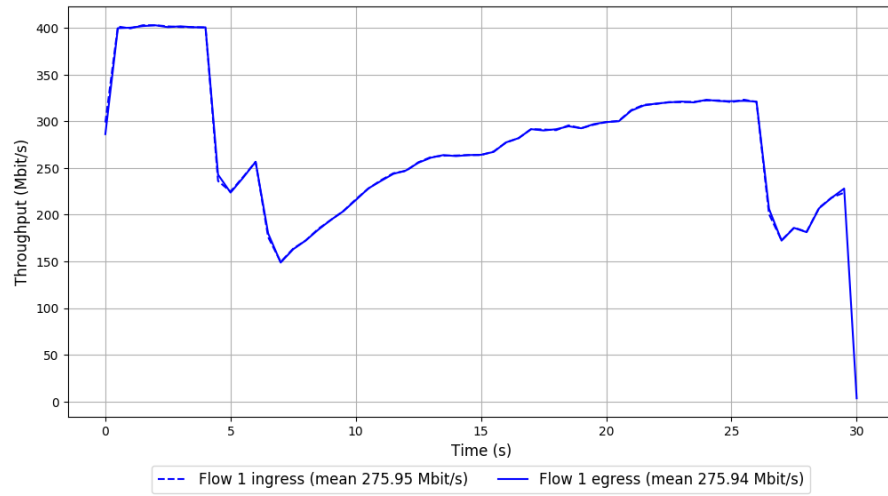


Run 8: Statistics of TCP Vegas

Start at: 2018-01-09 00:52:14
End at: 2018-01-09 00:52:44
Local clock offset: -5.466 ms
Remote clock offset: -2.325 ms

Below is generated by plot.py at 2018-01-09 05:36:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 275.94 Mbit/s
95th percentile per-packet one-way delay: 17.918 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 275.94 Mbit/s
95th percentile per-packet one-way delay: 17.918 ms
Loss rate: 0.01%

Run 8: Report of TCP Vegas — Data Link

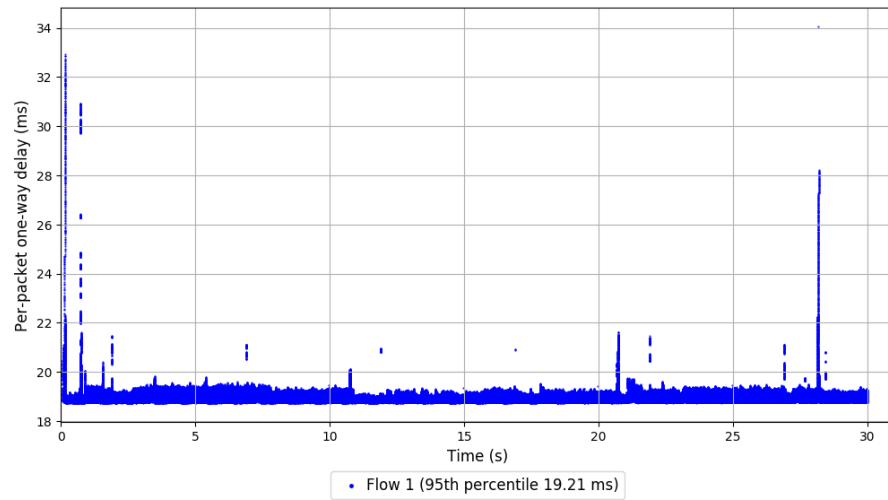
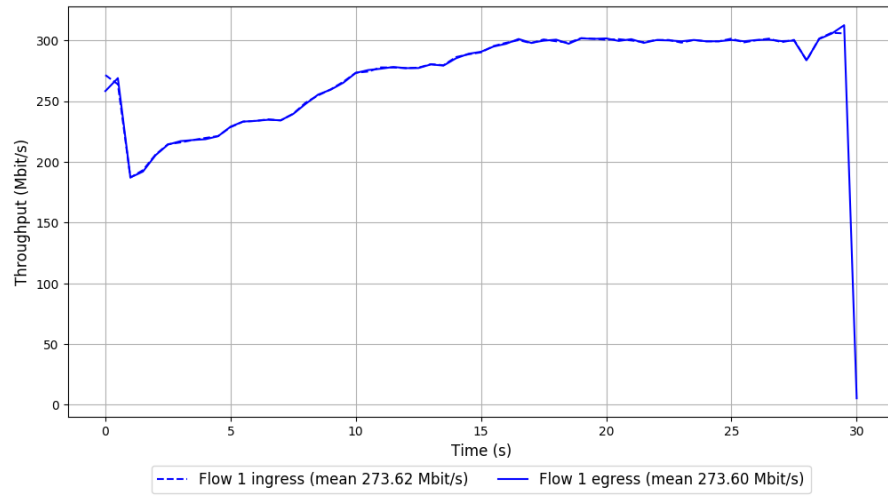


Run 9: Statistics of TCP Vegas

Start at: 2018-01-09 01:12:10
End at: 2018-01-09 01:12:40
Local clock offset: -2.574 ms
Remote clock offset: -2.003 ms

Below is generated by plot.py at 2018-01-09 05:36:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 273.60 Mbit/s
95th percentile per-packet one-way delay: 19.214 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 273.60 Mbit/s
95th percentile per-packet one-way delay: 19.214 ms
Loss rate: 0.01%

Run 9: Report of TCP Vegas — Data Link

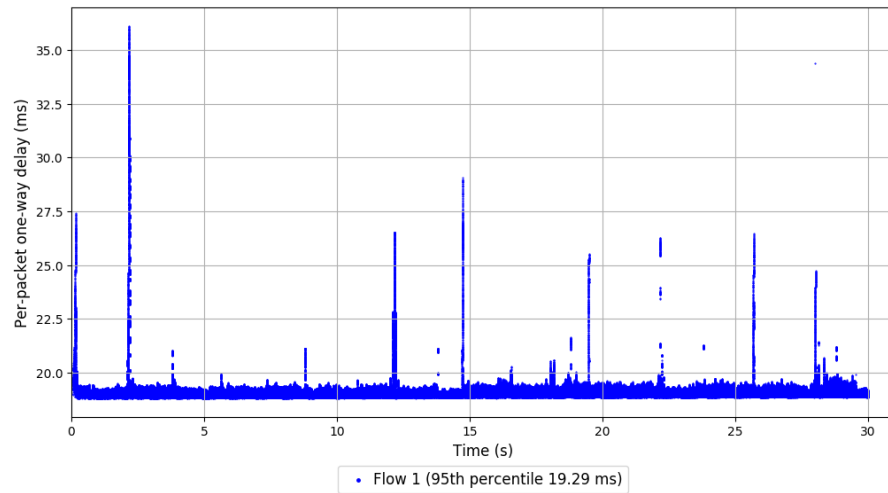
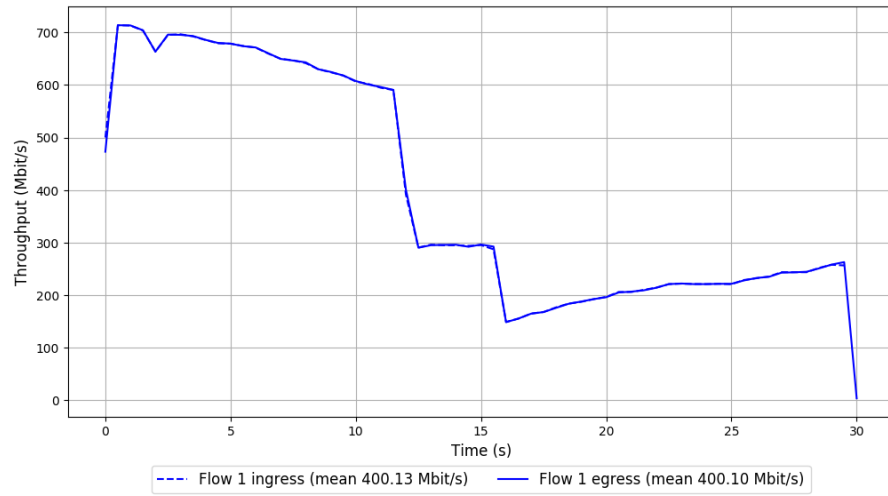


Run 10: Statistics of TCP Vegas

Start at: 2018-01-09 01:32:22
End at: 2018-01-09 01:32:52
Local clock offset: -0.726 ms
Remote clock offset: -1.772 ms

Below is generated by plot.py at 2018-01-09 05:43:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 400.10 Mbit/s
95th percentile per-packet one-way delay: 19.288 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 400.10 Mbit/s
95th percentile per-packet one-way delay: 19.288 ms
Loss rate: 0.01%

Run 10: Report of TCP Vegas — Data Link

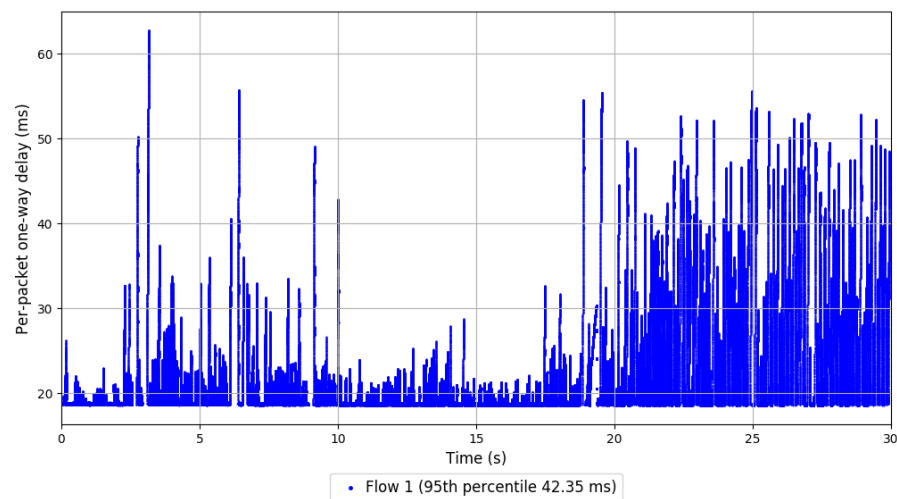
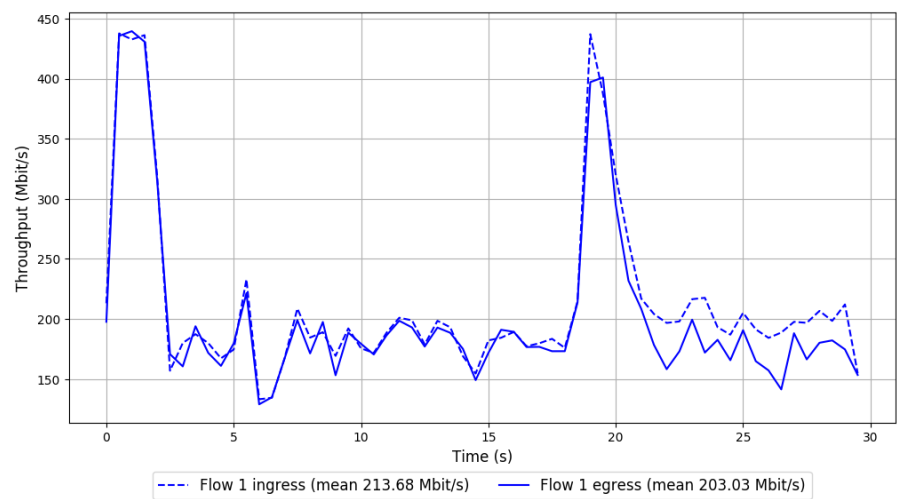


Run 1: Statistics of Verus

Start at: 2018-01-08 22:30:02
End at: 2018-01-08 22:30:32
Local clock offset: -18.584 ms
Remote clock offset: -1.979 ms

Below is generated by plot.py at 2018-01-09 05:43:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 203.03 Mbit/s
95th percentile per-packet one-way delay: 42.354 ms
Loss rate: 4.94%
-- Flow 1:
Average throughput: 203.03 Mbit/s
95th percentile per-packet one-way delay: 42.354 ms
Loss rate: 4.94%

Run 1: Report of Verus — Data Link

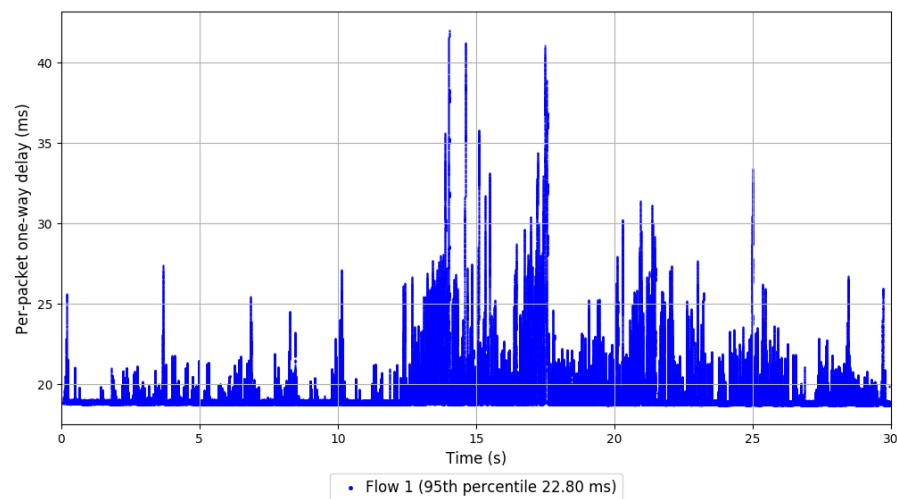
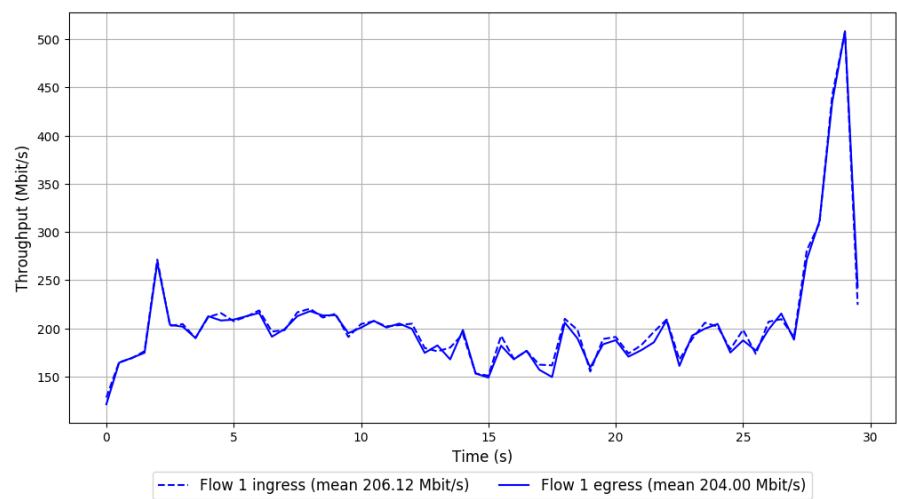


Run 2: Statistics of Verus

Start at: 2018-01-08 22:50:17
End at: 2018-01-08 22:50:47
Local clock offset: -20.894 ms
Remote clock offset: -1.714 ms

Below is generated by plot.py at 2018-01-09 05:43:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 204.00 Mbit/s
95th percentile per-packet one-way delay: 22.795 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 204.00 Mbit/s
95th percentile per-packet one-way delay: 22.795 ms
Loss rate: 1.03%

Run 2: Report of Verus — Data Link

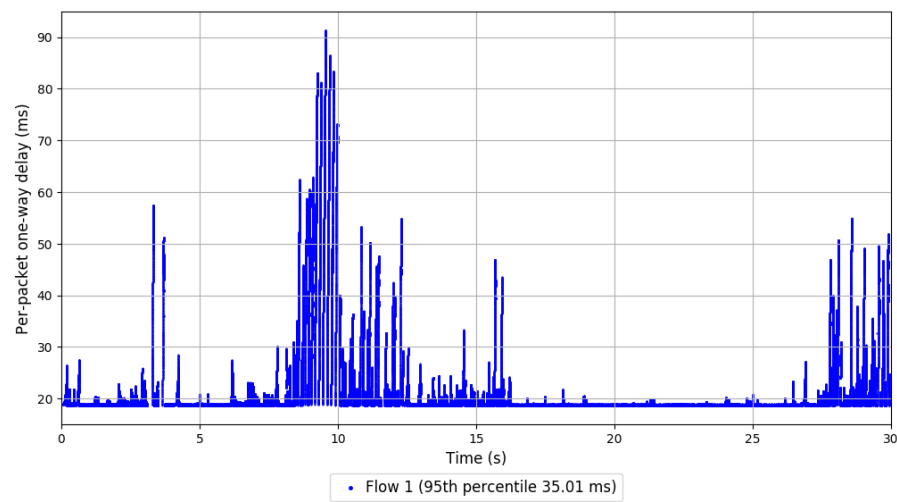
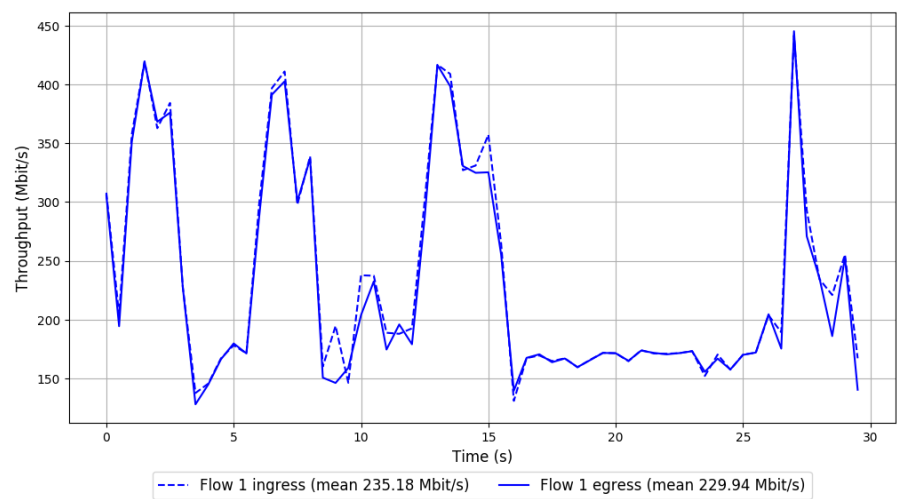


Run 3: Statistics of Verus

Start at: 2018-01-08 23:10:28
End at: 2018-01-08 23:10:58
Local clock offset: -22.278 ms
Remote clock offset: -1.26 ms

Below is generated by plot.py at 2018-01-09 05:43:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 229.94 Mbit/s
95th percentile per-packet one-way delay: 35.014 ms
Loss rate: 2.23%
-- Flow 1:
Average throughput: 229.94 Mbit/s
95th percentile per-packet one-way delay: 35.014 ms
Loss rate: 2.23%

Run 3: Report of Verus — Data Link

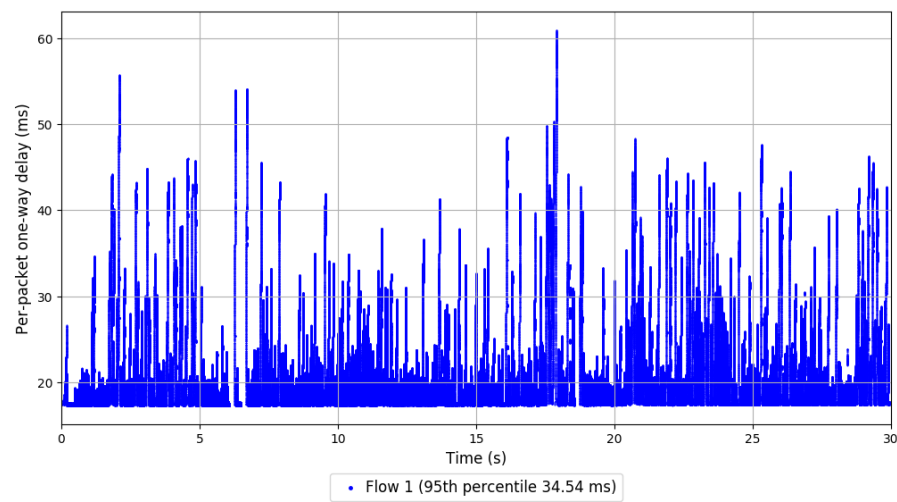
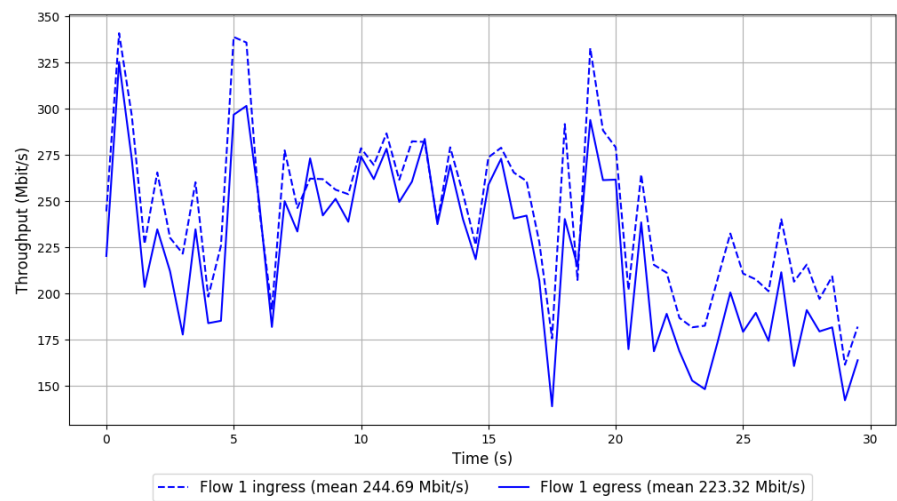


Run 4: Statistics of Verus

Start at: 2018-01-08 23:30:47
End at: 2018-01-08 23:31:17
Local clock offset: -24.594 ms
Remote clock offset: -1.655 ms

Below is generated by plot.py at 2018-01-09 05:43:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 223.32 Mbit/s
95th percentile per-packet one-way delay: 34.542 ms
Loss rate: 8.73%
-- Flow 1:
Average throughput: 223.32 Mbit/s
95th percentile per-packet one-way delay: 34.542 ms
Loss rate: 8.73%

Run 4: Report of Verus — Data Link

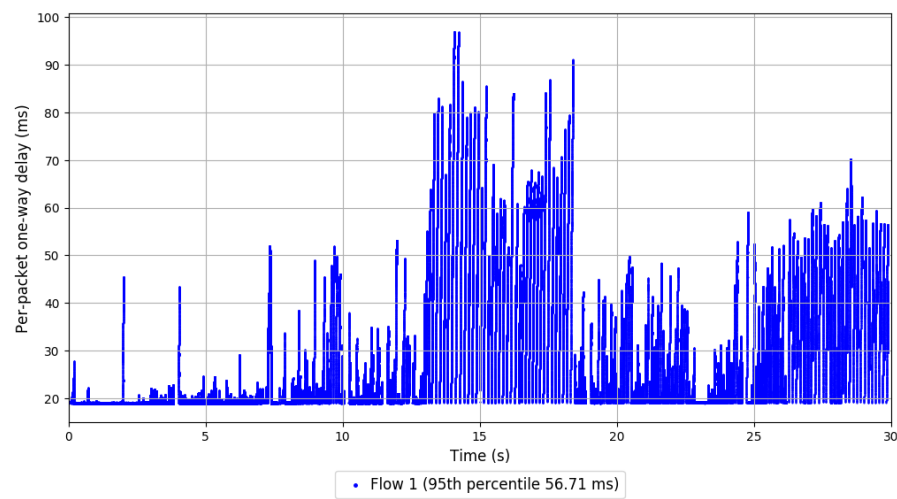
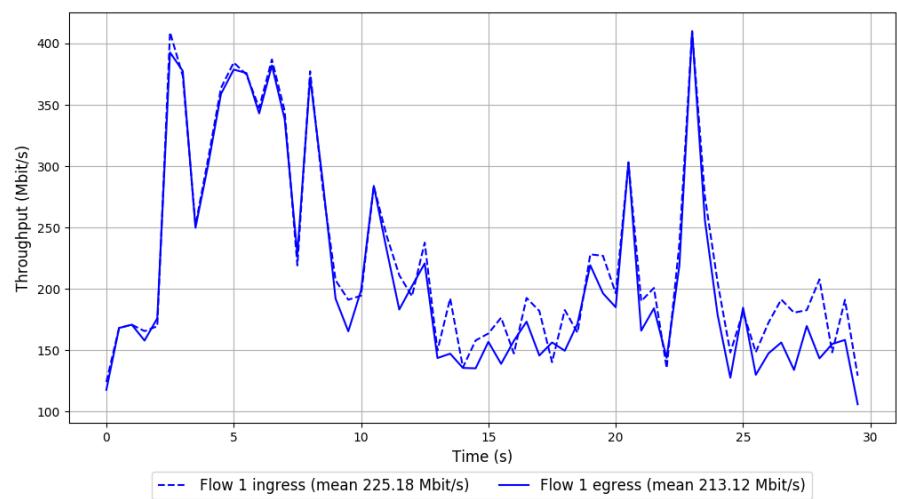


Run 5: Statistics of Verus

Start at: 2018-01-08 23:50:49
End at: 2018-01-08 23:51:19
Local clock offset: -18.222 ms
Remote clock offset: -1.346 ms

Below is generated by plot.py at 2018-01-09 05:43:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 213.12 Mbit/s
95th percentile per-packet one-way delay: 56.714 ms
Loss rate: 5.32%
-- Flow 1:
Average throughput: 213.12 Mbit/s
95th percentile per-packet one-way delay: 56.714 ms
Loss rate: 5.32%

Run 5: Report of Verus — Data Link

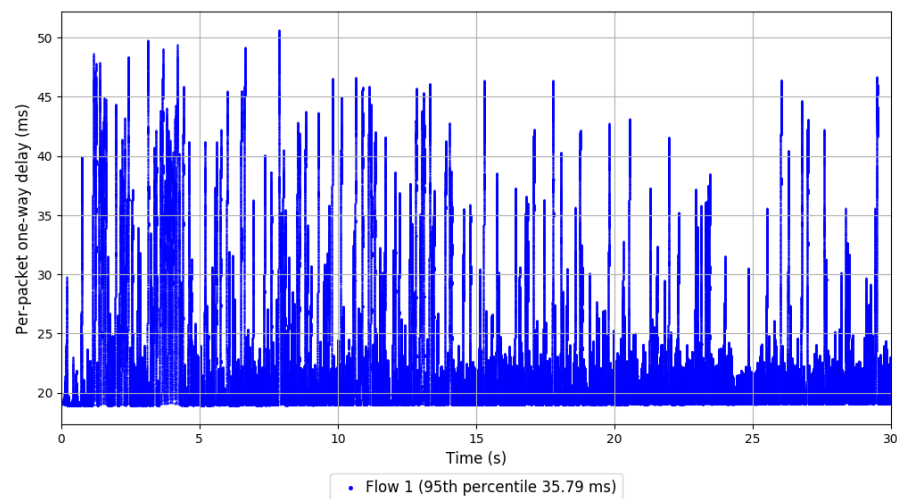
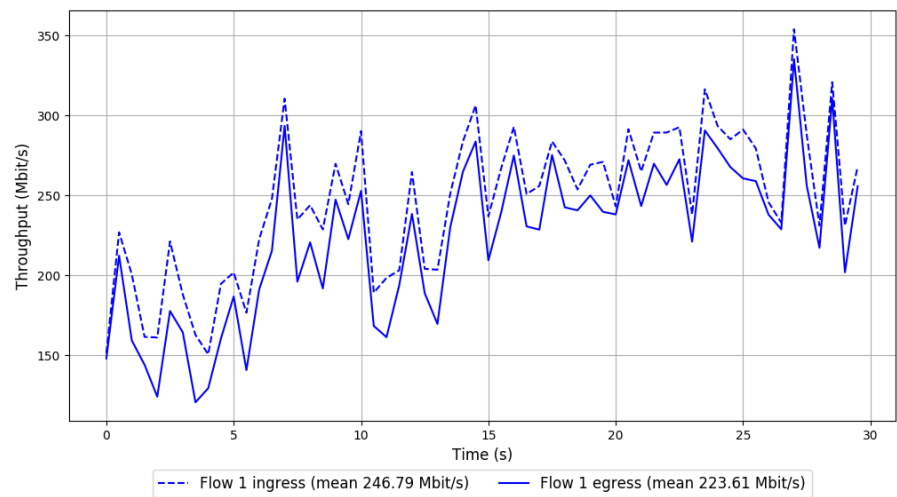


Run 6: Statistics of Verus

Start at: 2018-01-09 00:10:50
End at: 2018-01-09 00:11:20
Local clock offset: -12.786 ms
Remote clock offset: -1.271 ms

Below is generated by plot.py at 2018-01-09 05:43:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 223.61 Mbit/s
95th percentile per-packet one-way delay: 35.793 ms
Loss rate: 9.40%
-- Flow 1:
Average throughput: 223.61 Mbit/s
95th percentile per-packet one-way delay: 35.793 ms
Loss rate: 9.40%

Run 6: Report of Verus — Data Link

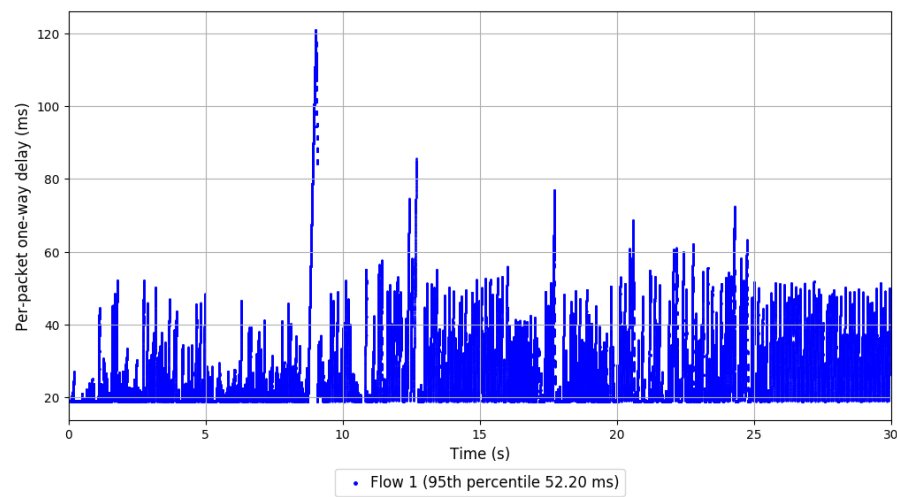
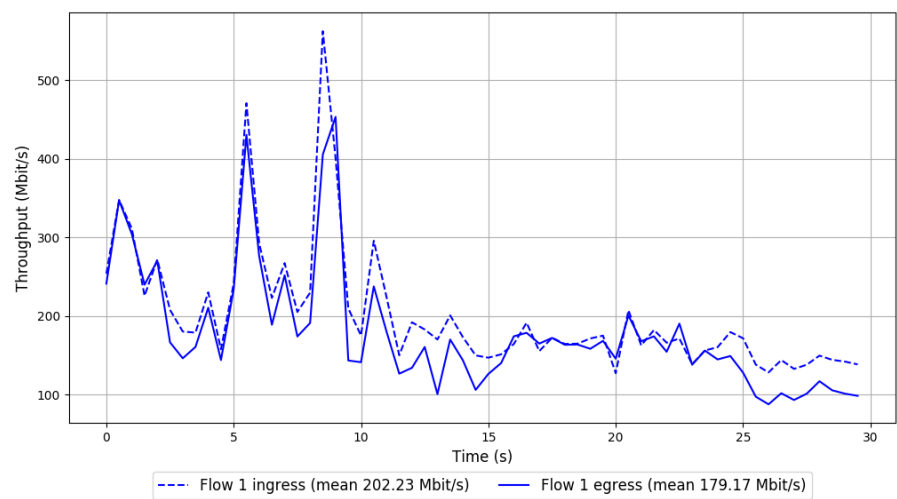


Run 7: Statistics of Verus

Start at: 2018-01-09 00:30:40
End at: 2018-01-09 00:31:10
Local clock offset: -7.96 ms
Remote clock offset: -1.698 ms

Below is generated by plot.py at 2018-01-09 05:43:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 179.17 Mbit/s
95th percentile per-packet one-way delay: 52.205 ms
Loss rate: 11.35%
-- Flow 1:
Average throughput: 179.17 Mbit/s
95th percentile per-packet one-way delay: 52.205 ms
Loss rate: 11.35%

Run 7: Report of Verus — Data Link

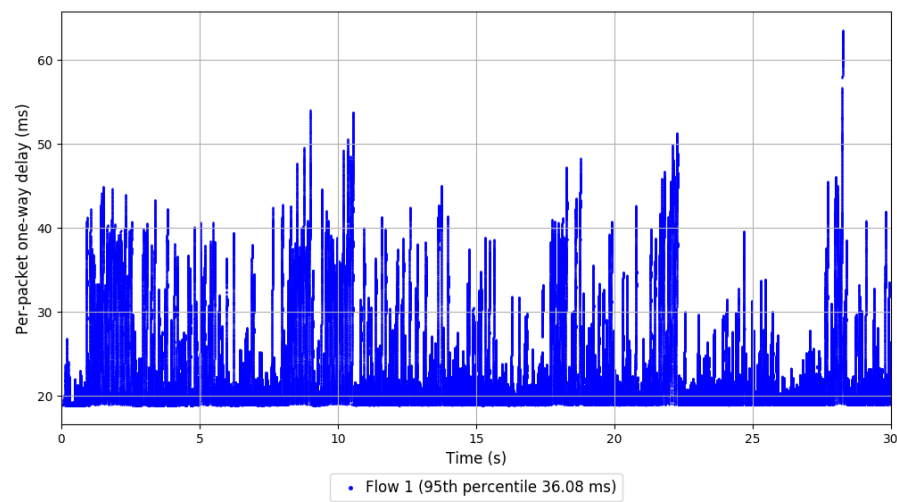
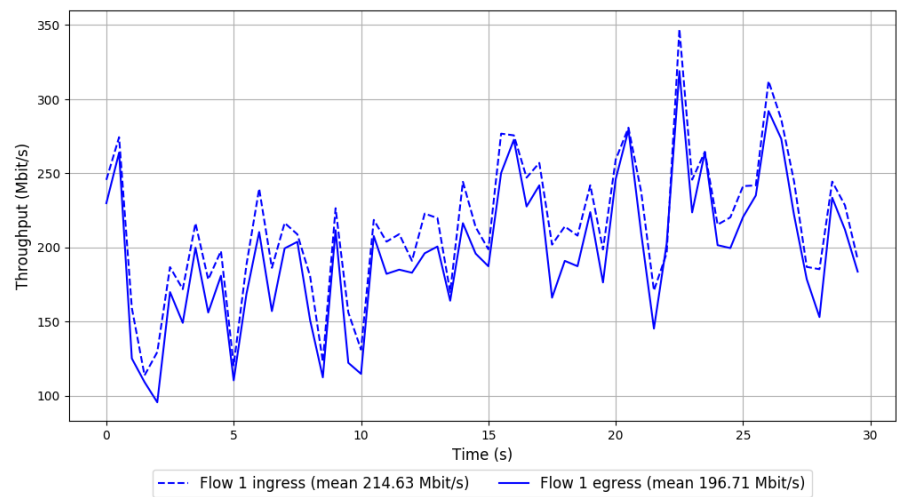


Run 8: Statistics of Verus

Start at: 2018-01-09 00:50:53
End at: 2018-01-09 00:51:23
Local clock offset: -5.762 ms
Remote clock offset: -2.324 ms

Below is generated by plot.py at 2018-01-09 05:43:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 196.71 Mbit/s
95th percentile per-packet one-way delay: 36.077 ms
Loss rate: 8.35%
-- Flow 1:
Average throughput: 196.71 Mbit/s
95th percentile per-packet one-way delay: 36.077 ms
Loss rate: 8.35%

Run 8: Report of Verus — Data Link

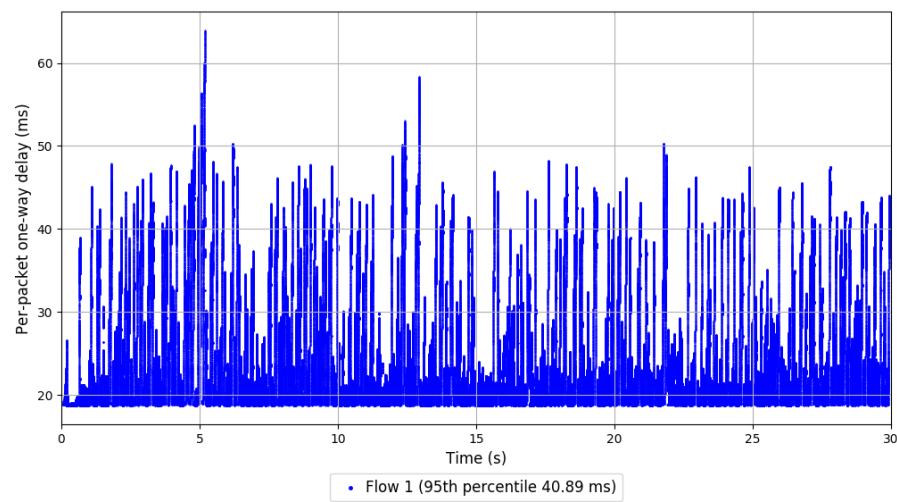
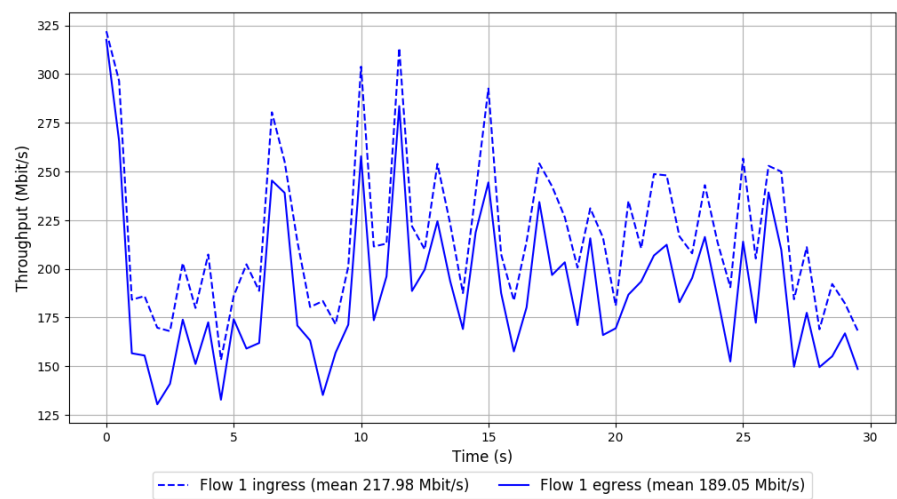


Run 9: Statistics of Verus

Start at: 2018-01-09 01:10:49
End at: 2018-01-09 01:11:19
Local clock offset: -2.721 ms
Remote clock offset: -2.062 ms

Below is generated by plot.py at 2018-01-09 05:44:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 189.05 Mbit/s
95th percentile per-packet one-way delay: 40.891 ms
Loss rate: 13.24%
-- Flow 1:
Average throughput: 189.05 Mbit/s
95th percentile per-packet one-way delay: 40.891 ms
Loss rate: 13.24%

Run 9: Report of Verus — Data Link

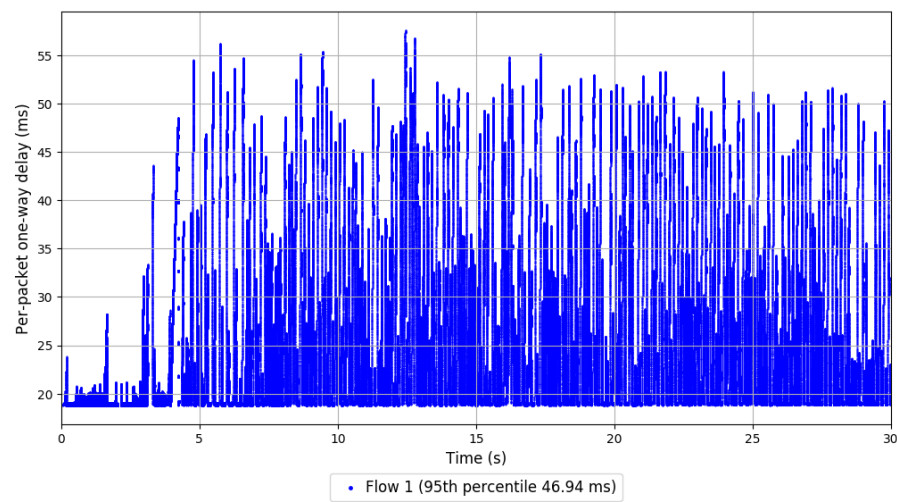
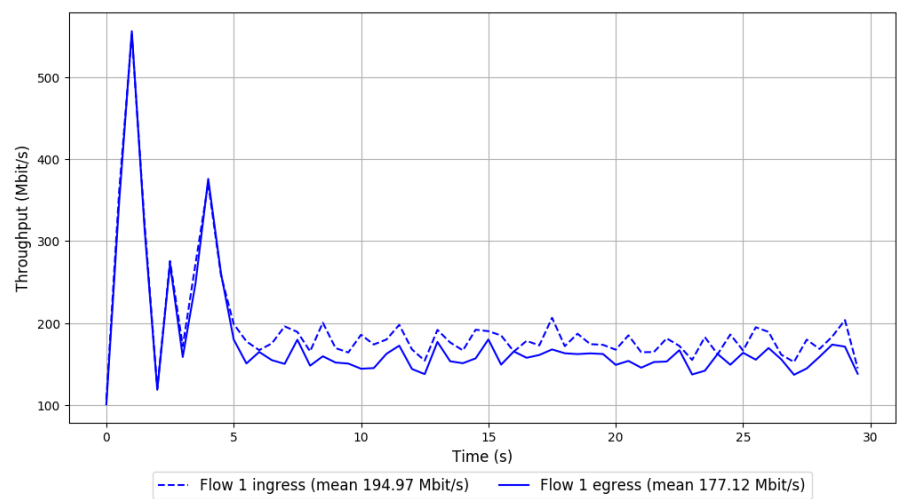


Run 10: Statistics of Verus

Start at: 2018-01-09 01:31:02
End at: 2018-01-09 01:31:32
Local clock offset: -0.963 ms
Remote clock offset: -1.898 ms

Below is generated by plot.py at 2018-01-09 05:46:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 177.12 Mbit/s
95th percentile per-packet one-way delay: 46.943 ms
Loss rate: 9.15%
-- Flow 1:
Average throughput: 177.12 Mbit/s
95th percentile per-packet one-way delay: 46.943 ms
Loss rate: 9.15%

Run 10: Report of Verus — Data Link

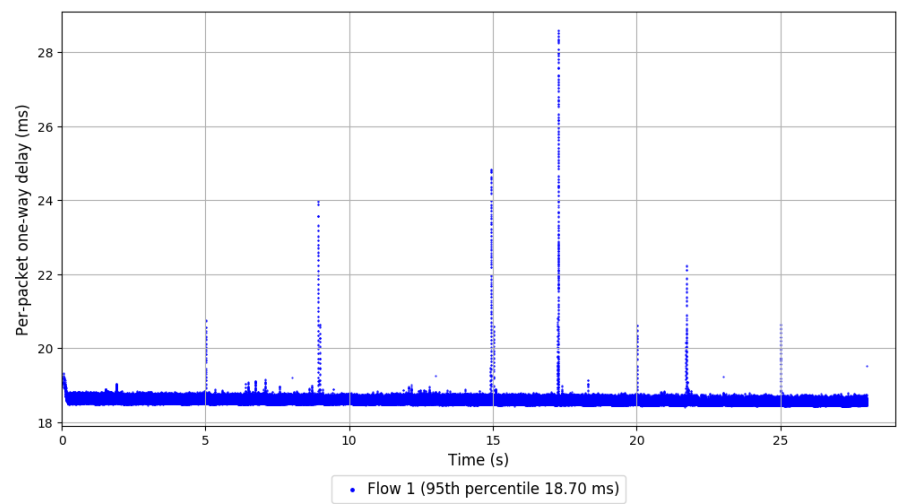
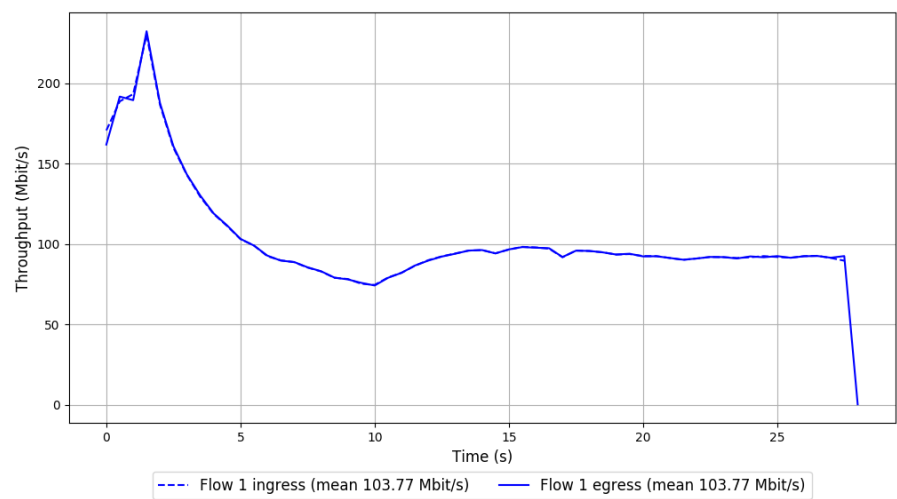


Run 1: Statistics of Copa

Start at: 2018-01-08 22:28:45
End at: 2018-01-08 22:29:15
Local clock offset: -18.394 ms
Remote clock offset: -1.982 ms

Below is generated by plot.py at 2018-01-09 05:46:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 103.77 Mbit/s
95th percentile per-packet one-way delay: 18.699 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 103.77 Mbit/s
95th percentile per-packet one-way delay: 18.699 ms
Loss rate: 0.00%

Run 1: Report of Copa — Data Link

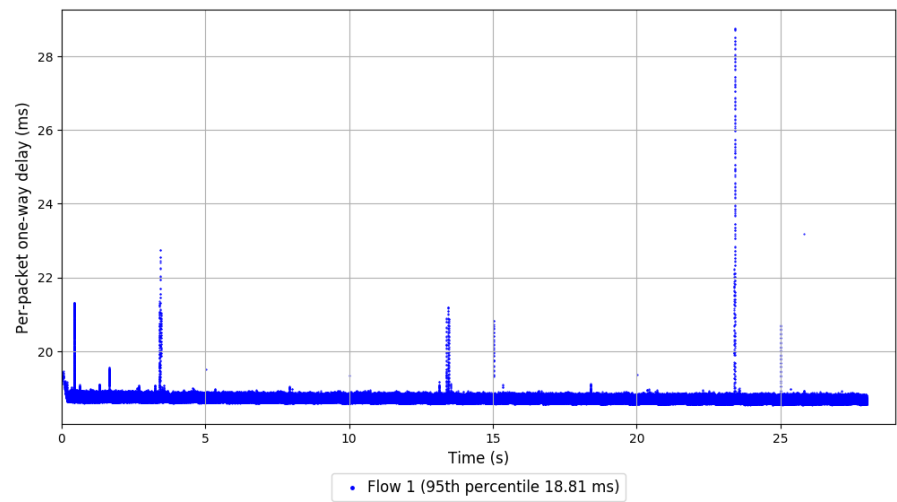
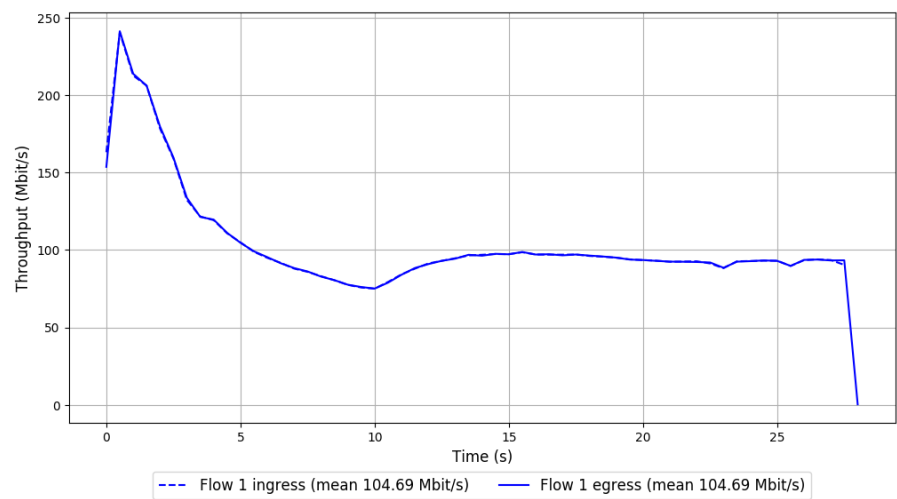


Run 2: Statistics of Copa

Start at: 2018-01-08 22:49:00
End at: 2018-01-08 22:49:30
Local clock offset: -20.76 ms
Remote clock offset: -1.865 ms

Below is generated by plot.py at 2018-01-09 05:47:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 104.69 Mbit/s
95th percentile per-packet one-way delay: 18.808 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 104.69 Mbit/s
95th percentile per-packet one-way delay: 18.808 ms
Loss rate: 0.01%

Run 2: Report of Copa — Data Link

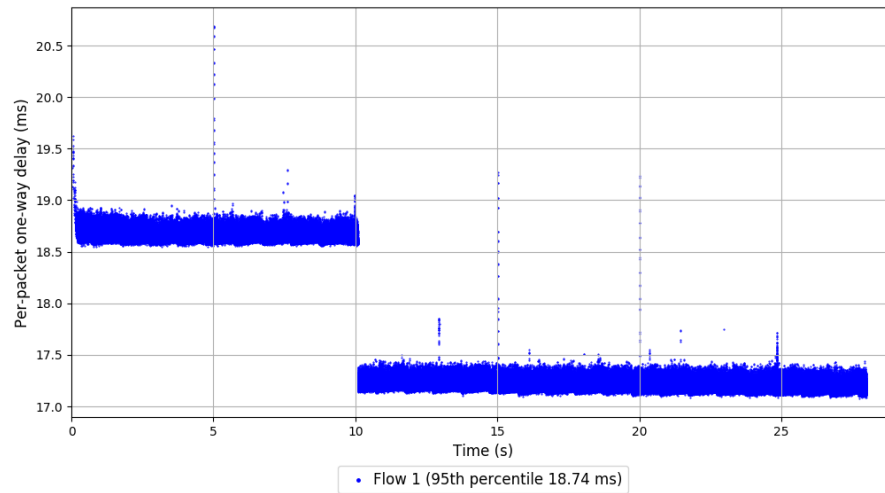
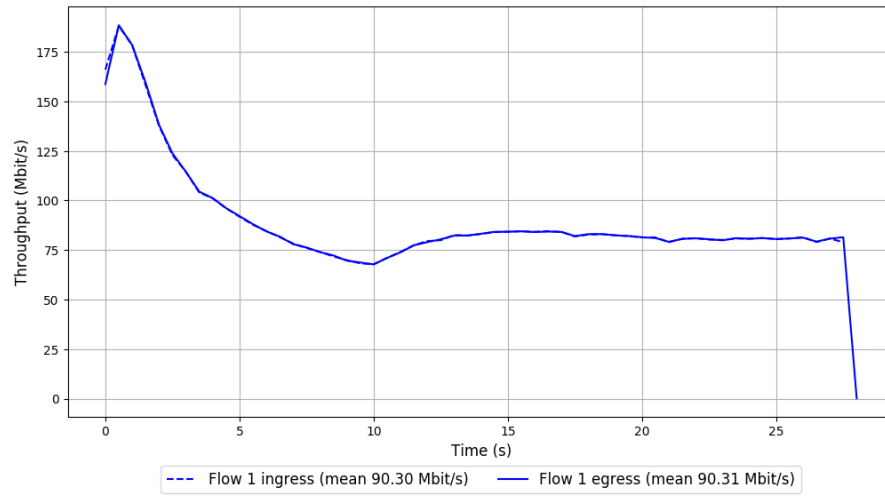


Run 3: Statistics of Copa

Start at: 2018-01-08 23:09:12
End at: 2018-01-08 23:09:42
Local clock offset: -22.165 ms
Remote clock offset: -1.314 ms

Below is generated by plot.py at 2018-01-09 05:47:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.31 Mbit/s
95th percentile per-packet one-way delay: 18.743 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.31 Mbit/s
95th percentile per-packet one-way delay: 18.743 ms
Loss rate: 0.00%

Run 3: Report of Copa — Data Link

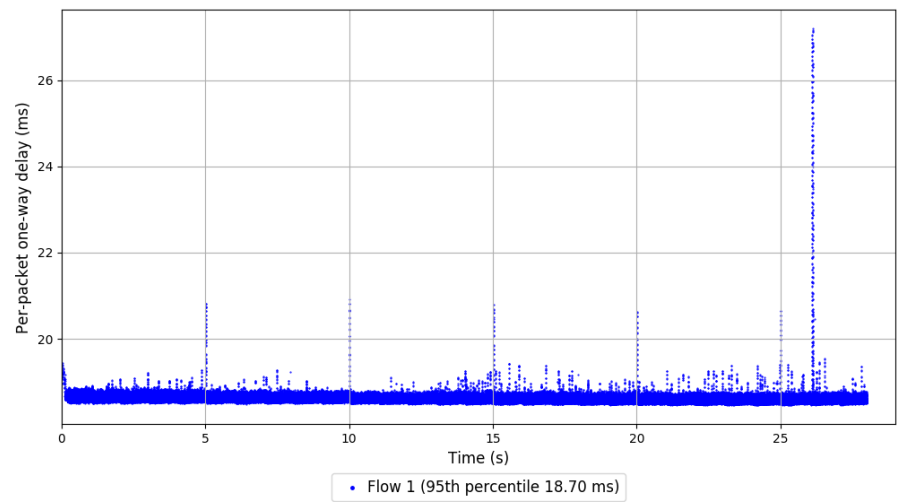
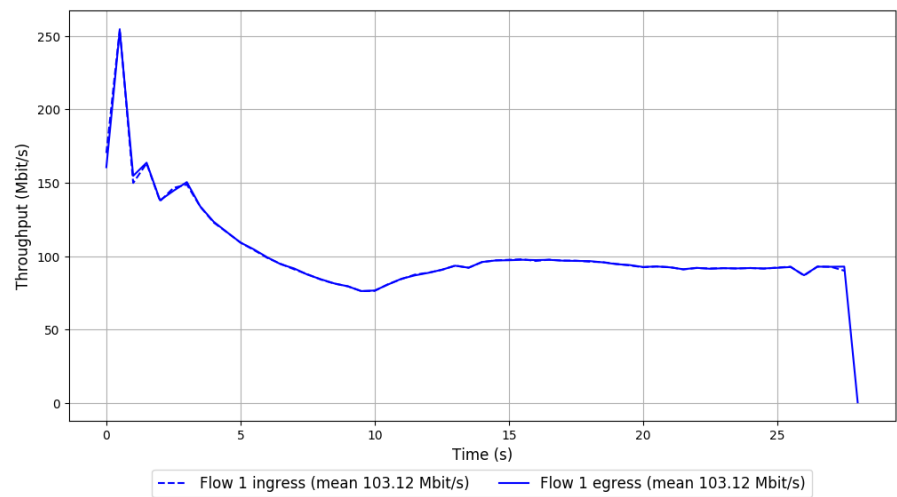


Run 4: Statistics of Copa

Start at: 2018-01-08 23:29:30
End at: 2018-01-08 23:30:00
Local clock offset: -24.518 ms
Remote clock offset: -1.664 ms

Below is generated by plot.py at 2018-01-09 05:47:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 103.12 Mbit/s
95th percentile per-packet one-way delay: 18.704 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 103.12 Mbit/s
95th percentile per-packet one-way delay: 18.704 ms
Loss rate: 0.00%

Run 4: Report of Copa — Data Link

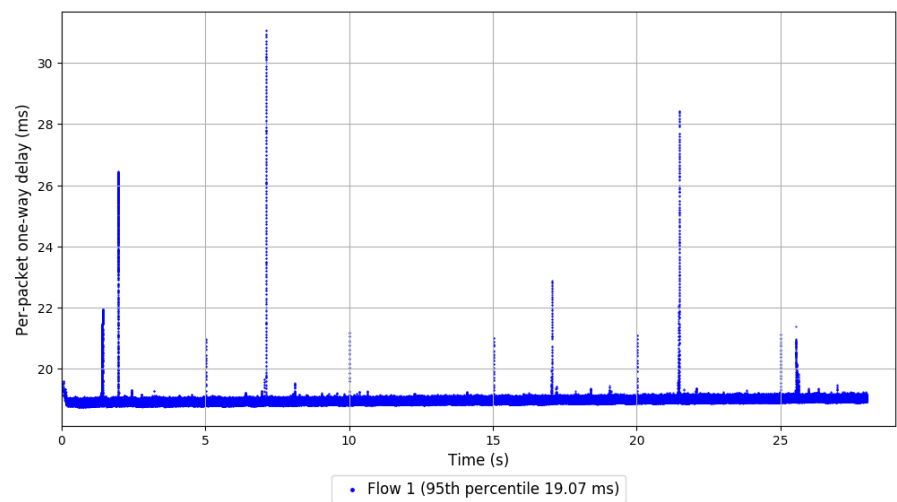
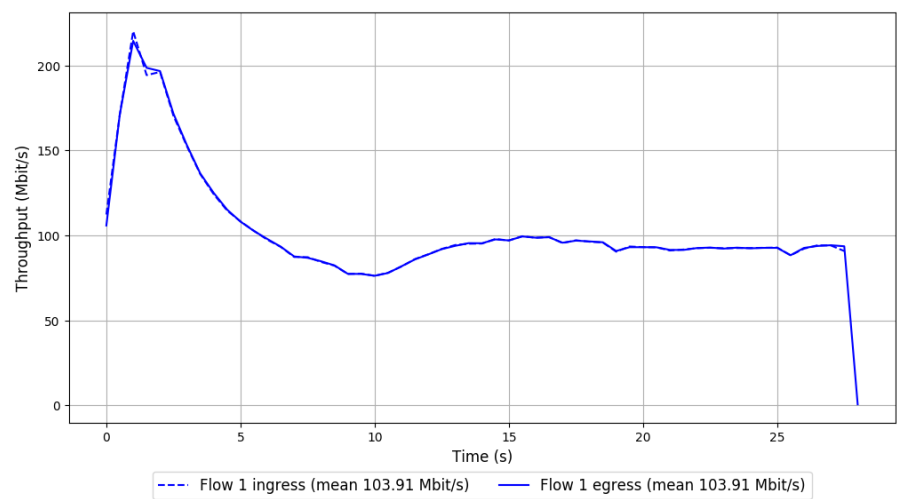


Run 5: Statistics of Copa

Start at: 2018-01-08 23:49:32
End at: 2018-01-08 23:50:02
Local clock offset: -18.541 ms
Remote clock offset: -1.374 ms

Below is generated by plot.py at 2018-01-09 05:48:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 103.91 Mbit/s
95th percentile per-packet one-way delay: 19.069 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 103.91 Mbit/s
95th percentile per-packet one-way delay: 19.069 ms
Loss rate: 0.00%

Run 5: Report of Copa — Data Link

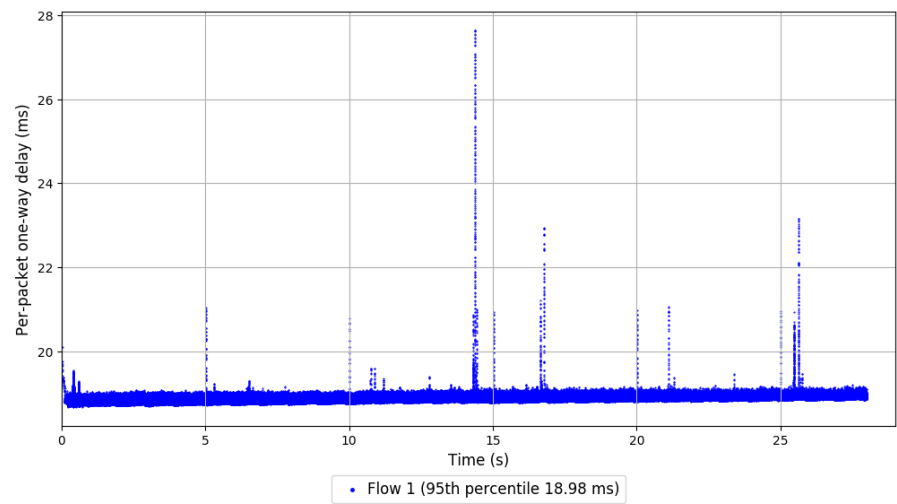
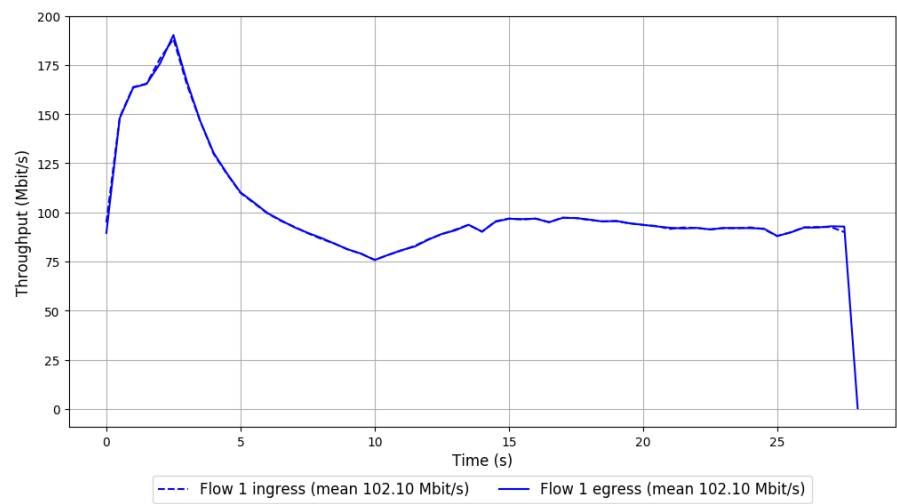


Run 6: Statistics of Copa

Start at: 2018-01-09 00:09:34
End at: 2018-01-09 00:10:04
Local clock offset: -13.043 ms
Remote clock offset: -1.323 ms

Below is generated by plot.py at 2018-01-09 05:48:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 102.10 Mbit/s
95th percentile per-packet one-way delay: 18.983 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 102.10 Mbit/s
95th percentile per-packet one-way delay: 18.983 ms
Loss rate: 0.00%

Run 6: Report of Copa — Data Link

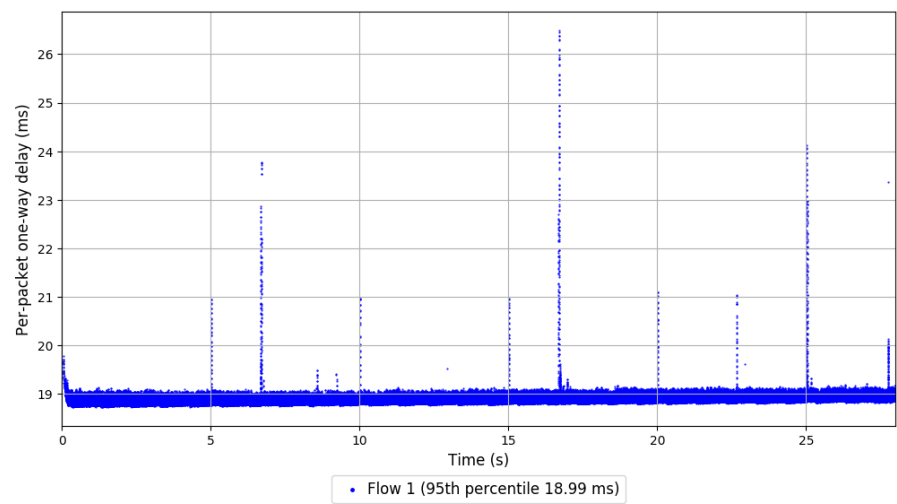
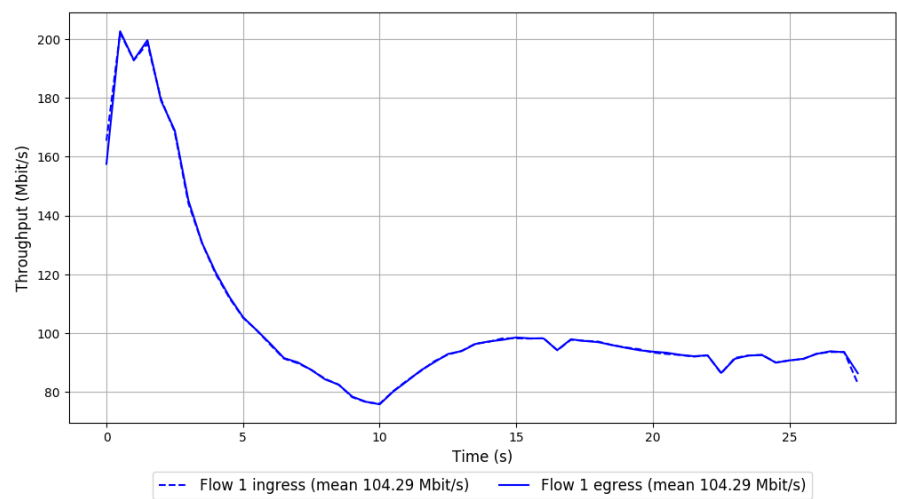


Run 7: Statistics of Copa

Start at: 2018-01-09 00:29:22
End at: 2018-01-09 00:29:52
Local clock offset: -8.159 ms
Remote clock offset: -1.742 ms

Below is generated by plot.py at 2018-01-09 05:49:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 104.29 Mbit/s
95th percentile per-packet one-way delay: 18.994 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 104.29 Mbit/s
95th percentile per-packet one-way delay: 18.994 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link

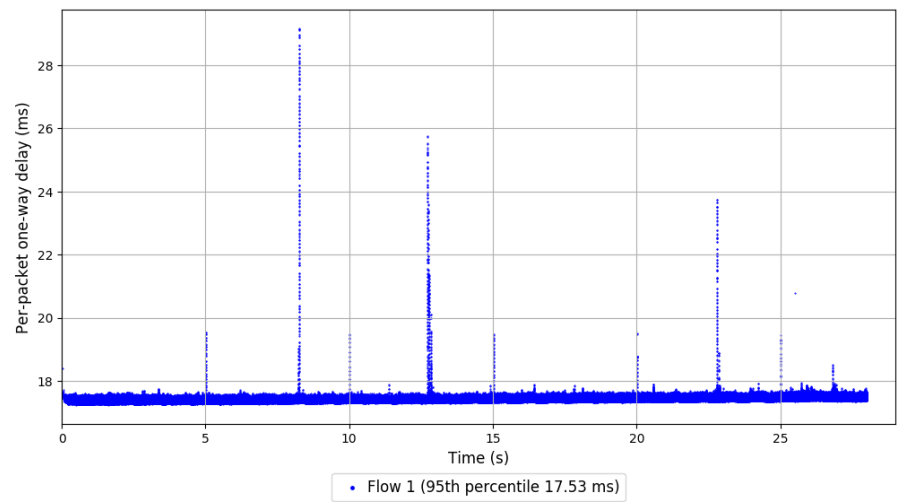
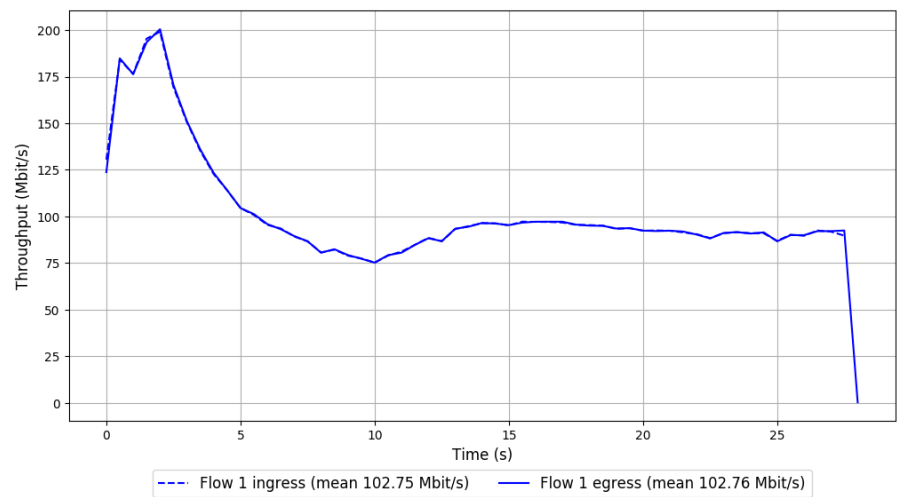


Run 8: Statistics of Copa

Start at: 2018-01-09 00:49:36
End at: 2018-01-09 00:50:06
Local clock offset: -5.899 ms
Remote clock offset: -2.375 ms

Below is generated by plot.py at 2018-01-09 05:51:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 102.76 Mbit/s
95th percentile per-packet one-way delay: 17.532 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 102.76 Mbit/s
95th percentile per-packet one-way delay: 17.532 ms
Loss rate: 0.00%

Run 8: Report of Copa — Data Link

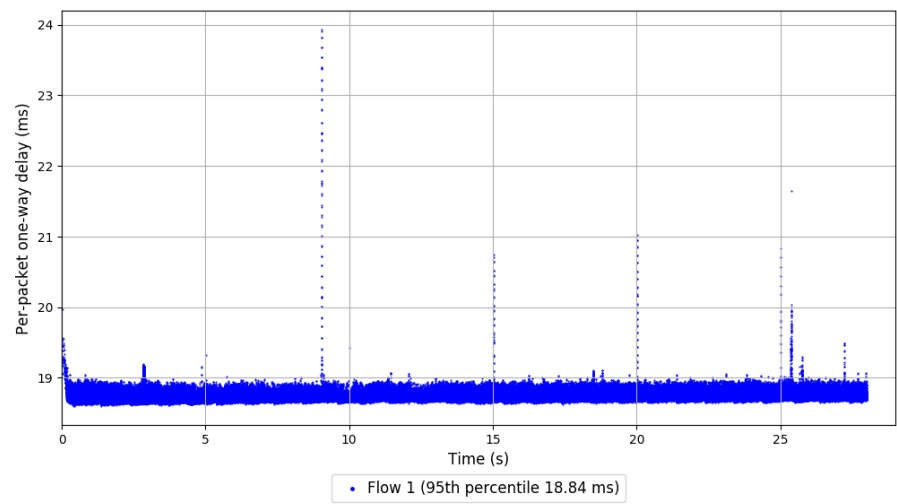
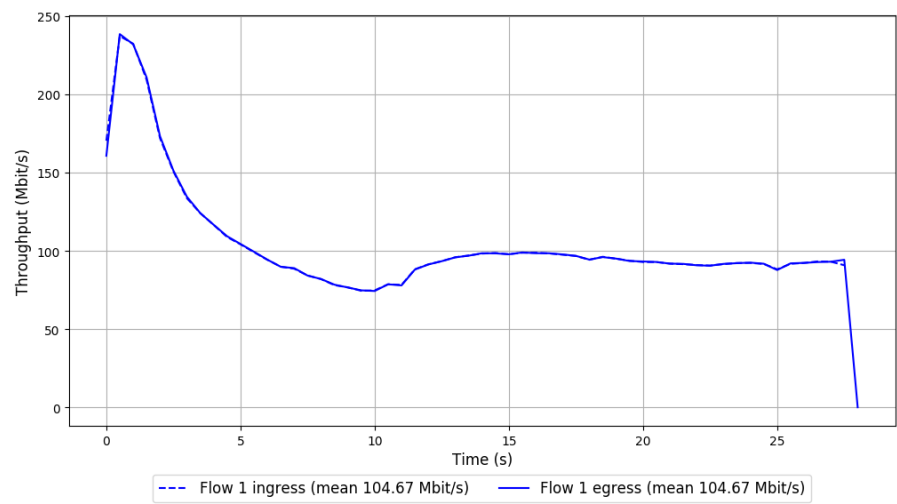


Run 9: Statistics of Copa

Start at: 2018-01-09 01:09:32
End at: 2018-01-09 01:10:02
Local clock offset: -2.847 ms
Remote clock offset: -2.163 ms

Below is generated by plot.py at 2018-01-09 05:51:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 104.67 Mbit/s
95th percentile per-packet one-way delay: 18.840 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 104.67 Mbit/s
95th percentile per-packet one-way delay: 18.840 ms
Loss rate: 0.00%

Run 9: Report of Copa — Data Link

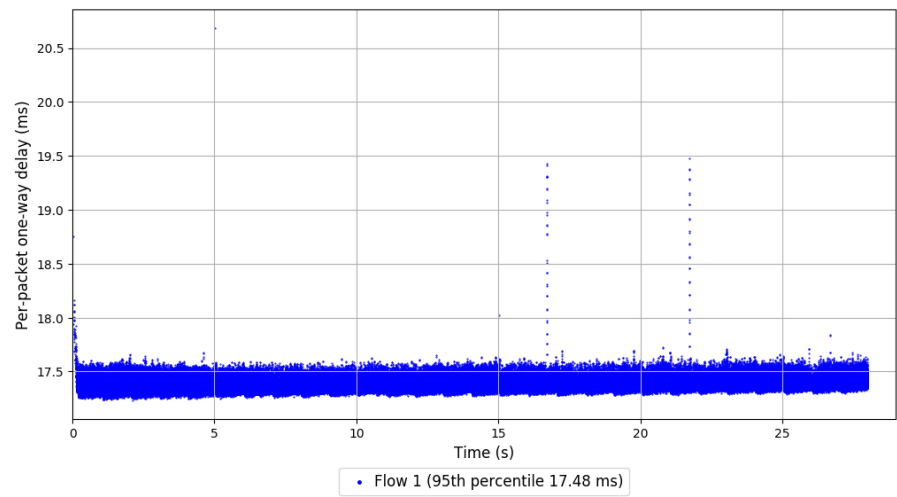
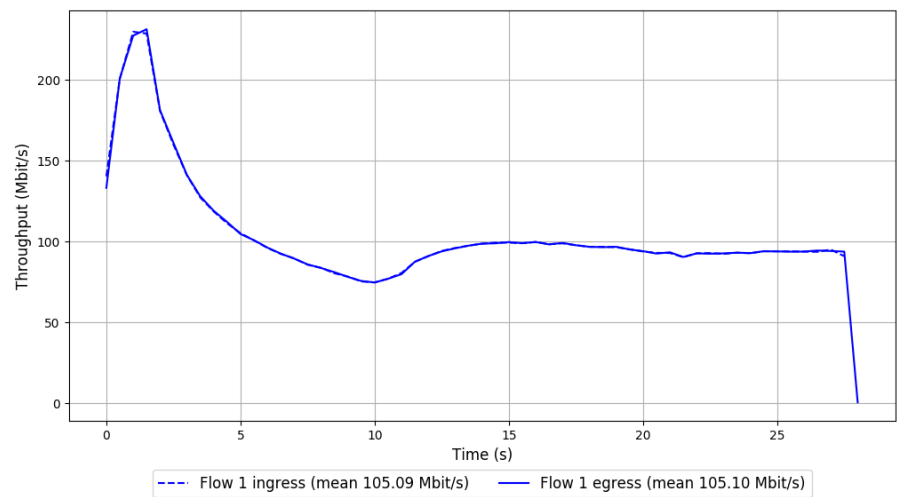


Run 10: Statistics of Copa

Start at: 2018-01-09 01:29:45
End at: 2018-01-09 01:30:15
Local clock offset: -1.047 ms
Remote clock offset: -1.872 ms

Below is generated by plot.py at 2018-01-09 05:51:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 105.10 Mbit/s
95th percentile per-packet one-way delay: 17.483 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 105.10 Mbit/s
95th percentile per-packet one-way delay: 17.483 ms
Loss rate: 0.00%

Run 10: Report of Copa — Data Link

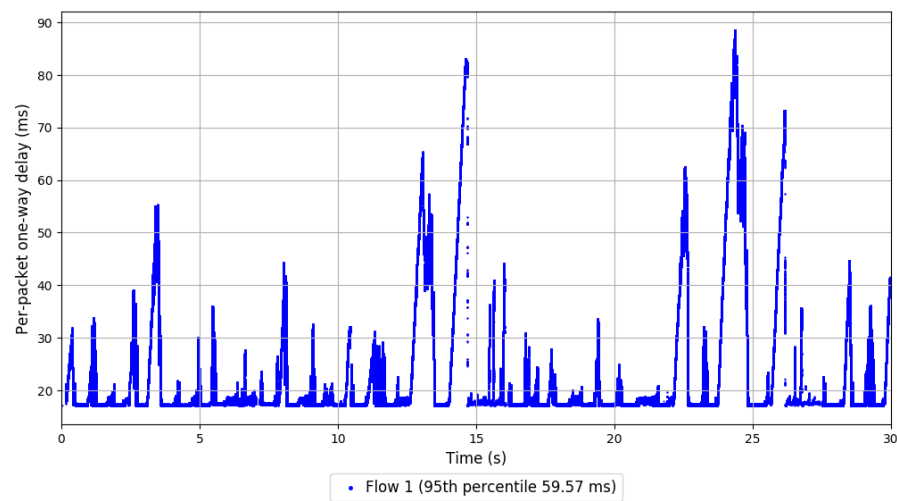
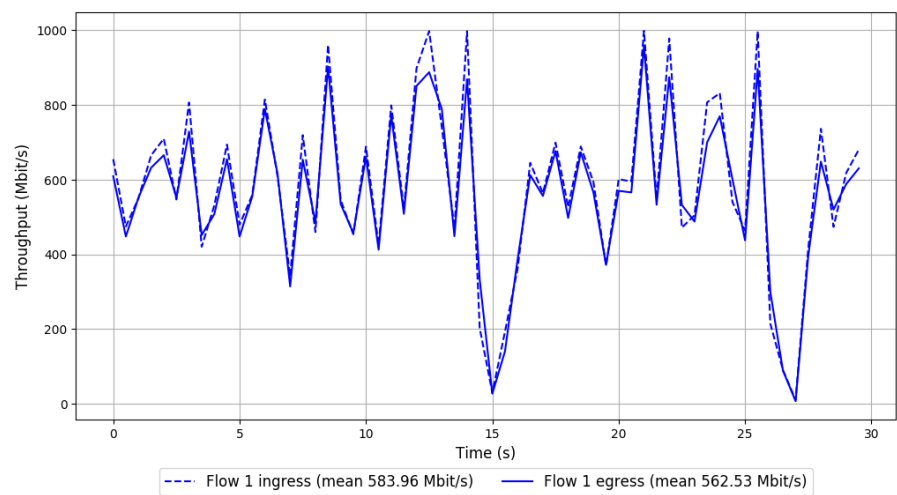


Run 1: Statistics of FillP

Start at: 2018-01-08 22:22:02
End at: 2018-01-08 22:22:32
Local clock offset: -17.731 ms
Remote clock offset: -1.828 ms

Below is generated by plot.py at 2018-01-09 06:03:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 562.53 Mbit/s
95th percentile per-packet one-way delay: 59.570 ms
Loss rate: 3.67%
-- Flow 1:
Average throughput: 562.53 Mbit/s
95th percentile per-packet one-way delay: 59.570 ms
Loss rate: 3.67%

Run 1: Report of FillP — Data Link

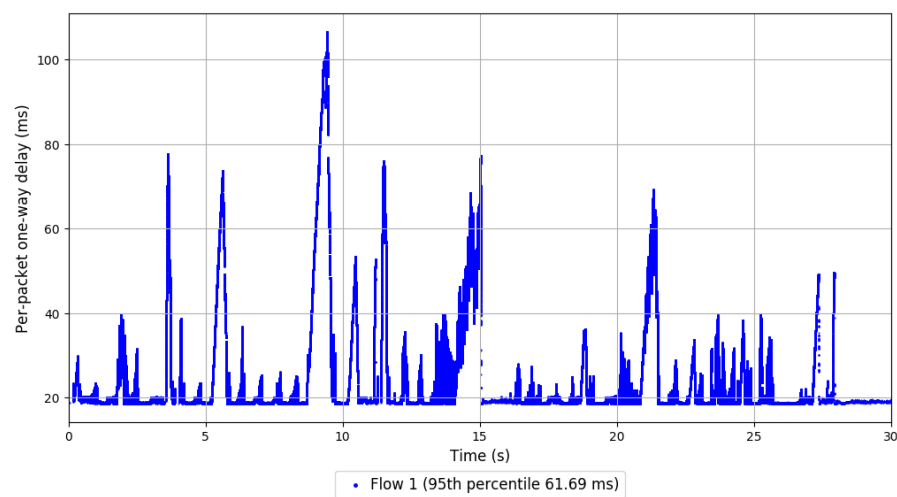
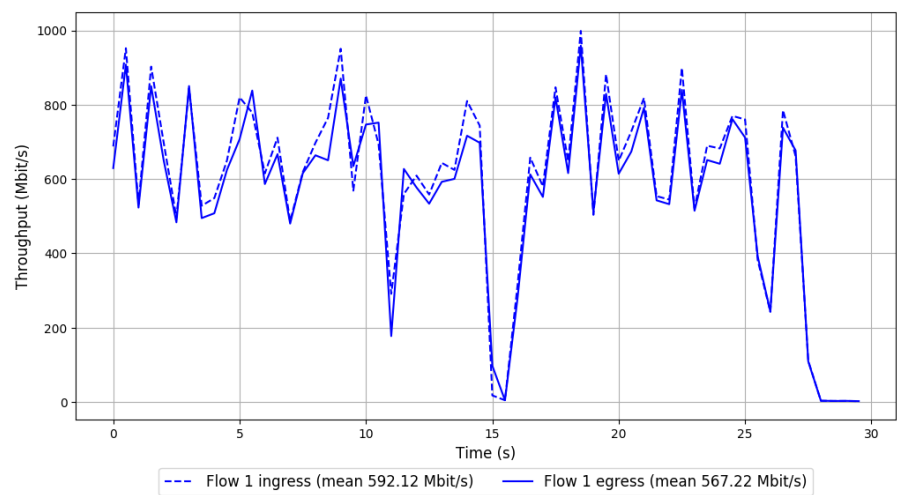


Run 2: Statistics of FillP

Start at: 2018-01-08 22:42:15
End at: 2018-01-08 22:42:45
Local clock offset: -20.066 ms
Remote clock offset: -1.905 ms

Below is generated by plot.py at 2018-01-09 06:04:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 567.22 Mbit/s
95th percentile per-packet one-way delay: 61.693 ms
Loss rate: 4.20%
-- Flow 1:
Average throughput: 567.22 Mbit/s
95th percentile per-packet one-way delay: 61.693 ms
Loss rate: 4.20%

Run 2: Report of FillP — Data Link

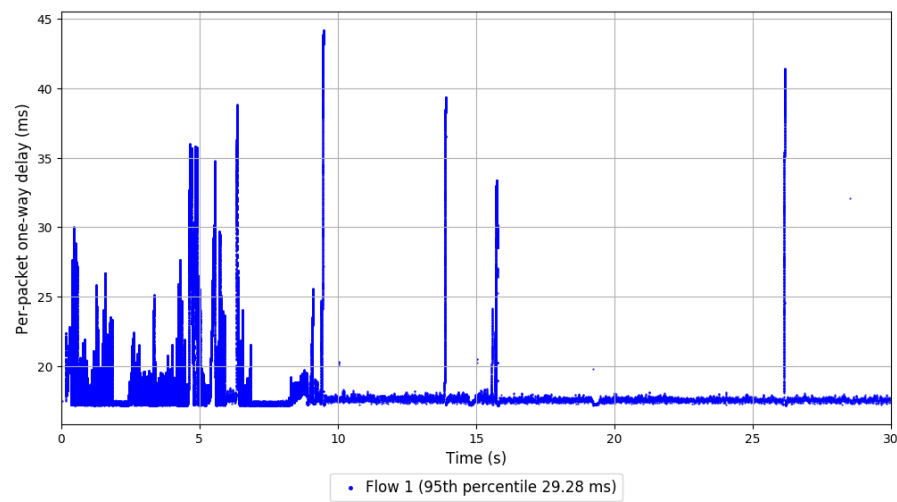
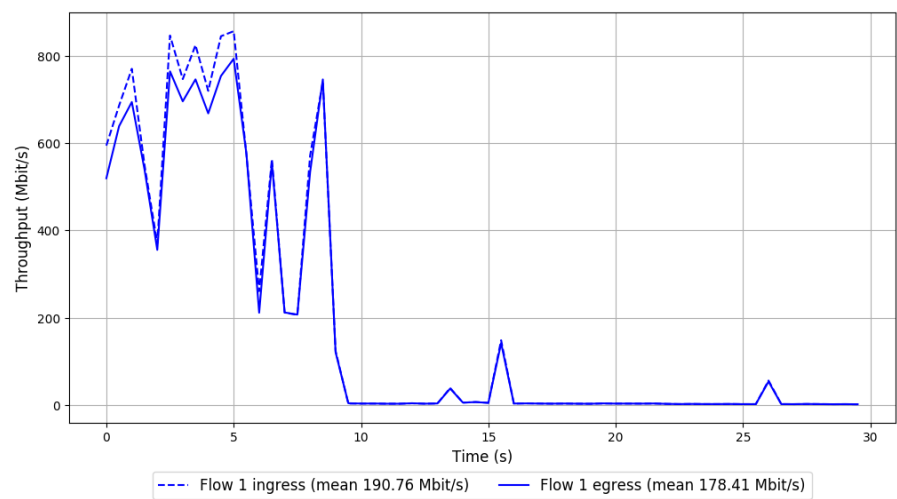


Run 3: Statistics of FillP

Start at: 2018-01-08 23:02:21
End at: 2018-01-08 23:02:51
Local clock offset: -21.678 ms
Remote clock offset: -1.433 ms

Below is generated by plot.py at 2018-01-09 06:04:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 178.41 Mbit/s
95th percentile per-packet one-way delay: 29.283 ms
Loss rate: 6.47%
-- Flow 1:
Average throughput: 178.41 Mbit/s
95th percentile per-packet one-way delay: 29.283 ms
Loss rate: 6.47%

Run 3: Report of FillP — Data Link

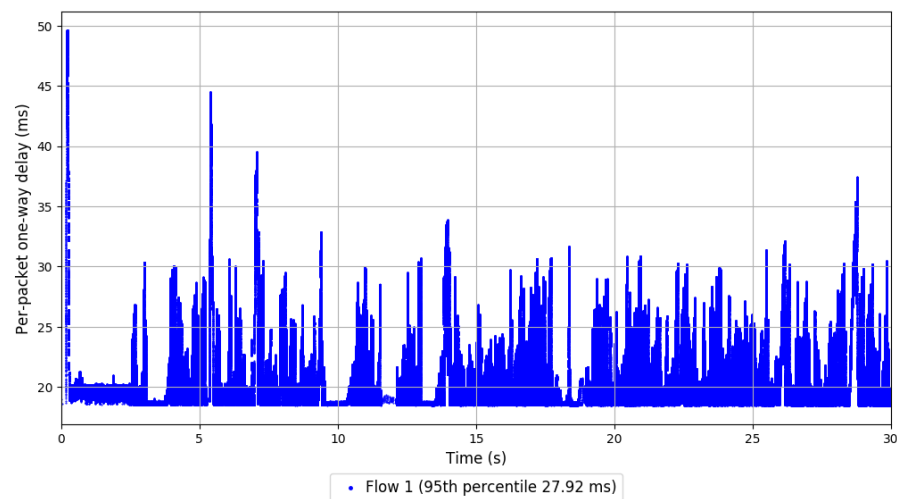
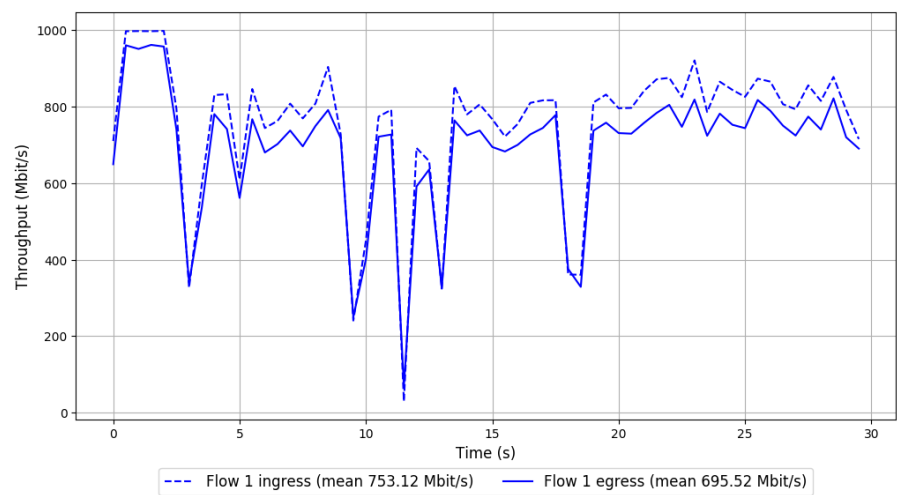


Run 4: Statistics of FillP

Start at: 2018-01-08 23:22:28
End at: 2018-01-08 23:22:58
Local clock offset: -23.57 ms
Remote clock offset: -1.694 ms

Below is generated by plot.py at 2018-01-09 06:10:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 695.52 Mbit/s
95th percentile per-packet one-way delay: 27.922 ms
Loss rate: 7.65%
-- Flow 1:
Average throughput: 695.52 Mbit/s
95th percentile per-packet one-way delay: 27.922 ms
Loss rate: 7.65%

Run 4: Report of FillP — Data Link

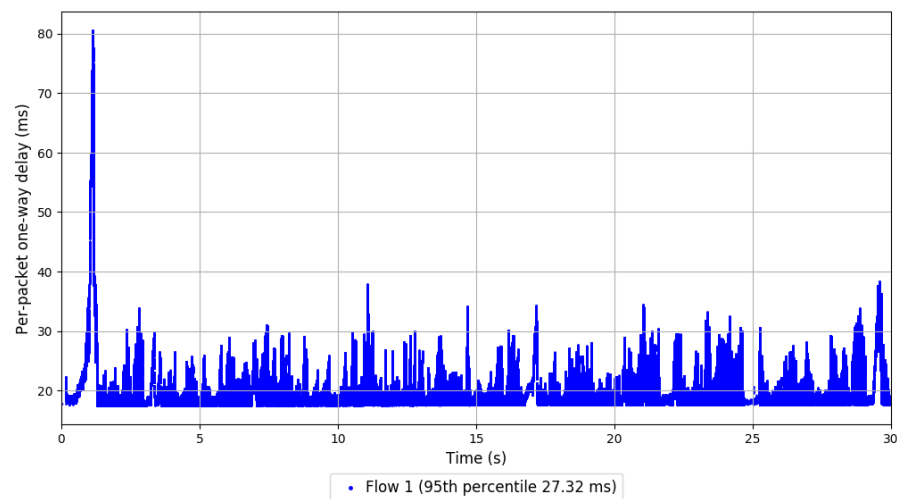
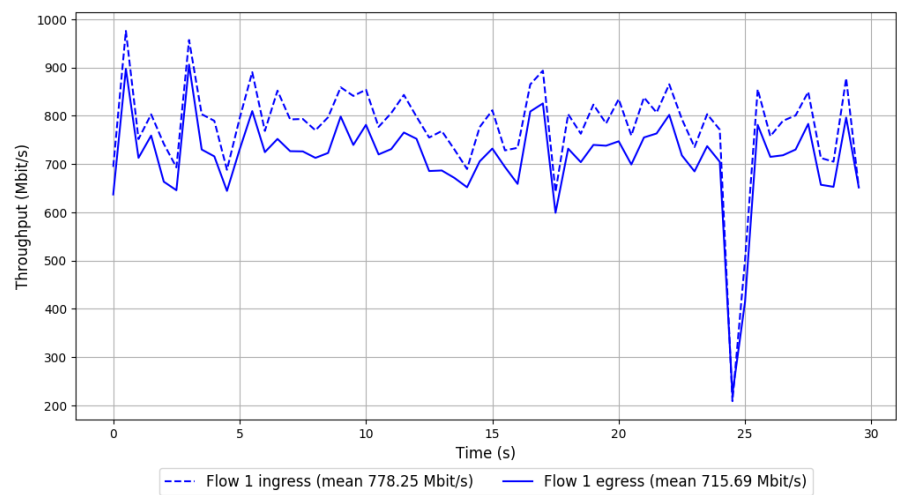


Run 5: Statistics of FillP

Start at: 2018-01-08 23:42:45
End at: 2018-01-08 23:43:15
Local clock offset: -21.391 ms
Remote clock offset: -1.512 ms

Below is generated by plot.py at 2018-01-09 06:11:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 715.69 Mbit/s
95th percentile per-packet one-way delay: 27.318 ms
Loss rate: 8.04%
-- Flow 1:
Average throughput: 715.69 Mbit/s
95th percentile per-packet one-way delay: 27.318 ms
Loss rate: 8.04%

Run 5: Report of FillP — Data Link

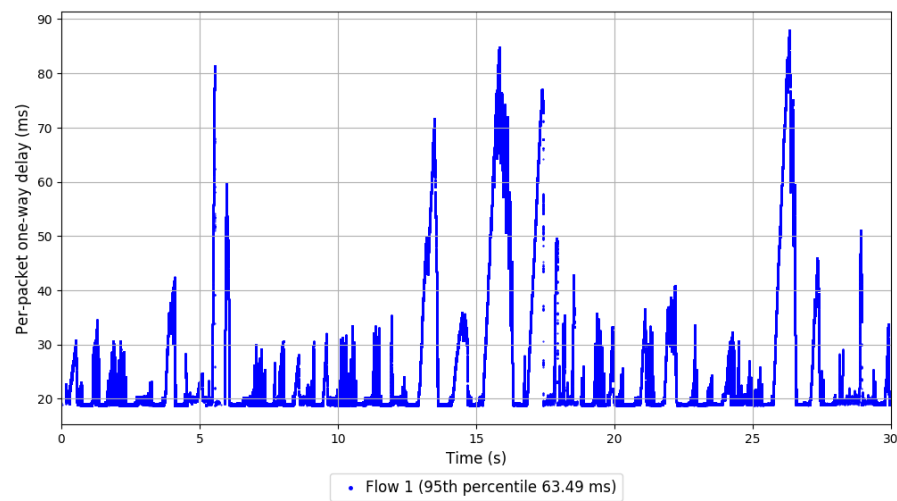
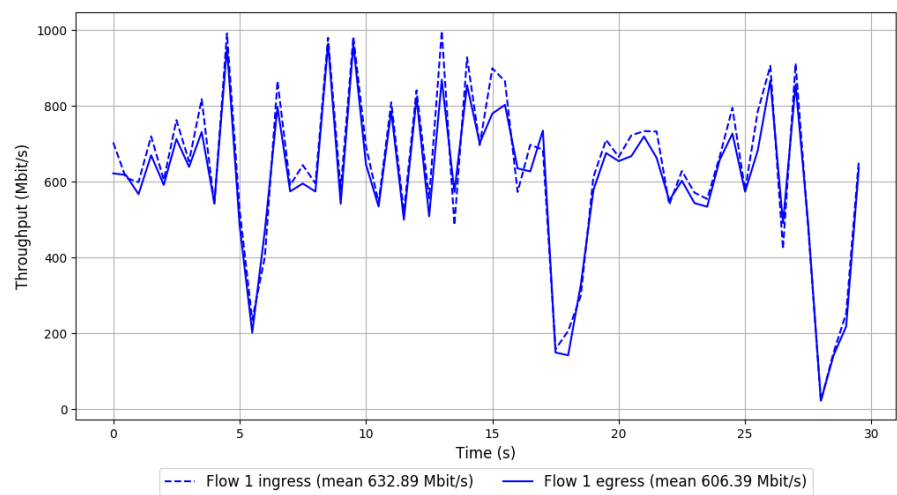


Run 6: Statistics of FillP

Start at: 2018-01-09 00:02:41
End at: 2018-01-09 00:03:11
Local clock offset: -14.972 ms
Remote clock offset: -1.072 ms

Below is generated by plot.py at 2018-01-09 06:11:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 606.39 Mbit/s
95th percentile per-packet one-way delay: 63.491 ms
Loss rate: 4.19%
-- Flow 1:
Average throughput: 606.39 Mbit/s
95th percentile per-packet one-way delay: 63.491 ms
Loss rate: 4.19%

Run 6: Report of FillP — Data Link

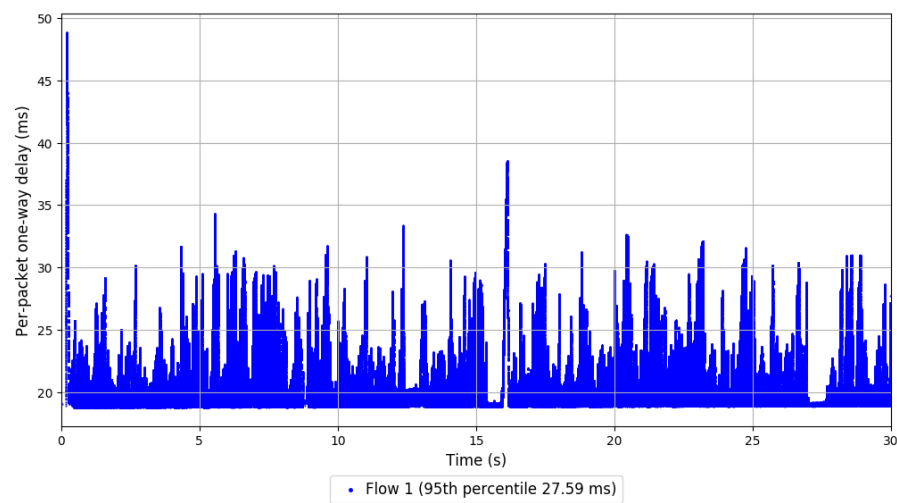
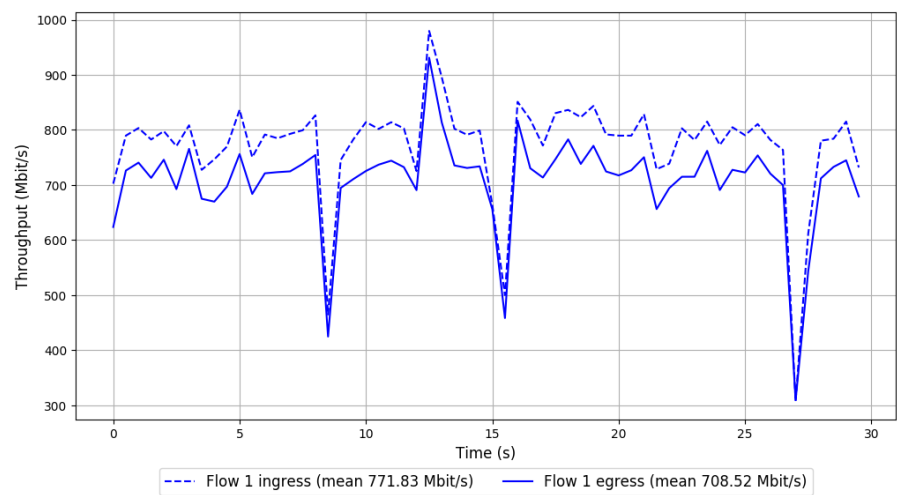


Run 7: Statistics of FillP

Start at: 2018-01-09 00:22:38
End at: 2018-01-09 00:23:08
Local clock offset: -9.421 ms
Remote clock offset: -1.379 ms

Below is generated by plot.py at 2018-01-09 06:13:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 708.52 Mbit/s
95th percentile per-packet one-way delay: 27.588 ms
Loss rate: 8.20%
-- Flow 1:
Average throughput: 708.52 Mbit/s
95th percentile per-packet one-way delay: 27.588 ms
Loss rate: 8.20%

Run 7: Report of FillP — Data Link

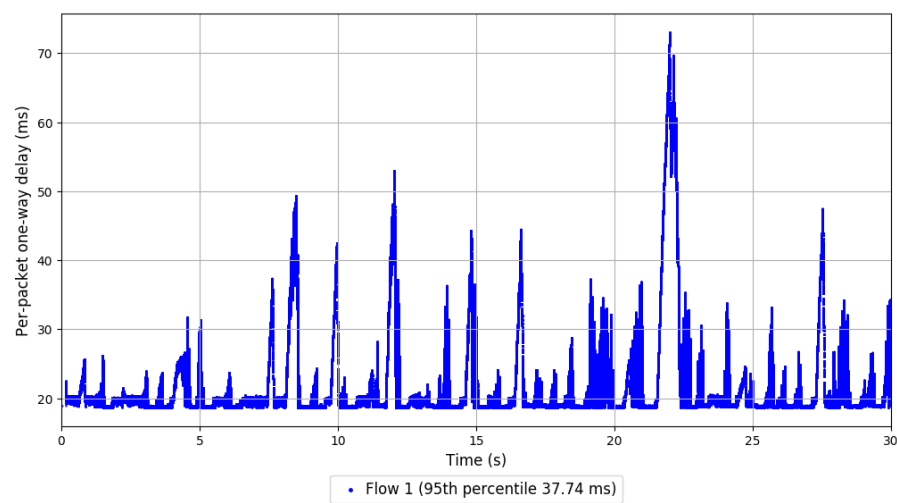
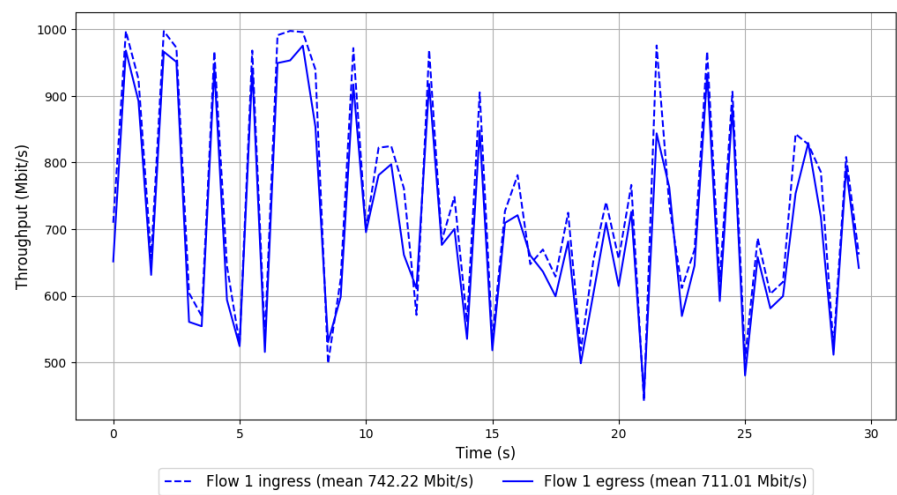


Run 8: Statistics of FillP

Start at: 2018-01-09 00:42:43
End at: 2018-01-09 00:43:13
Local clock offset: -6.462 ms
Remote clock offset: -2.193 ms

Below is generated by plot.py at 2018-01-09 06:13:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 711.01 Mbit/s
95th percentile per-packet one-way delay: 37.736 ms
Loss rate: 4.20%
-- Flow 1:
Average throughput: 711.01 Mbit/s
95th percentile per-packet one-way delay: 37.736 ms
Loss rate: 4.20%

Run 8: Report of FillP — Data Link

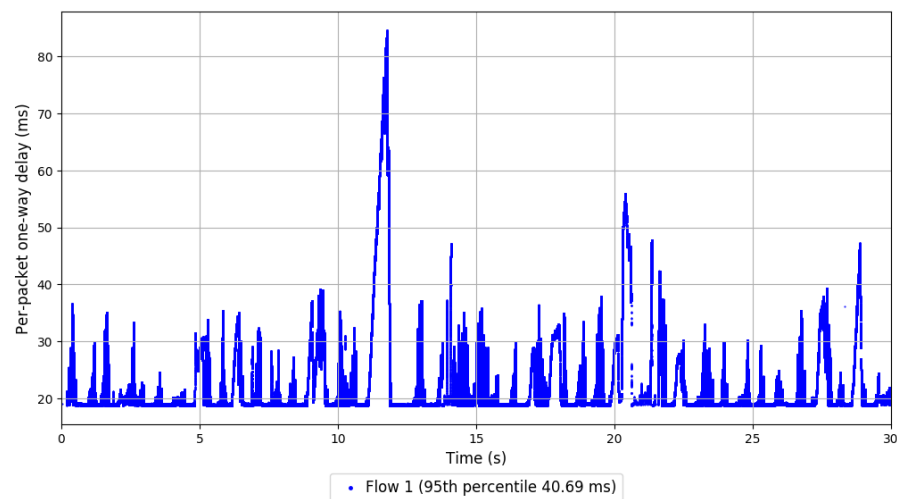
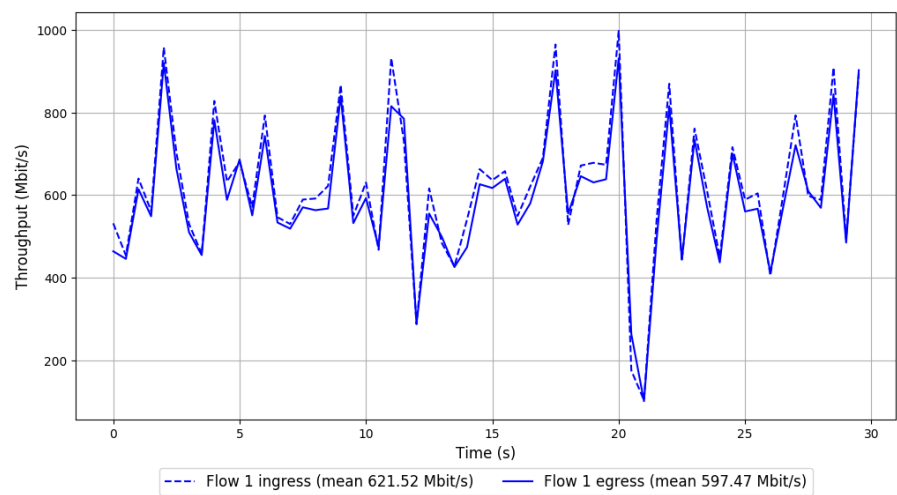


Run 9: Statistics of FillP

Start at: 2018-01-09 01:02:41
End at: 2018-01-09 01:03:11
Local clock offset: -3.654 ms
Remote clock offset: -2.176 ms

Below is generated by plot.py at 2018-01-09 06:13:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 597.47 Mbit/s
95th percentile per-packet one-way delay: 40.685 ms
Loss rate: 3.87%
-- Flow 1:
Average throughput: 597.47 Mbit/s
95th percentile per-packet one-way delay: 40.685 ms
Loss rate: 3.87%

Run 9: Report of FillP — Data Link

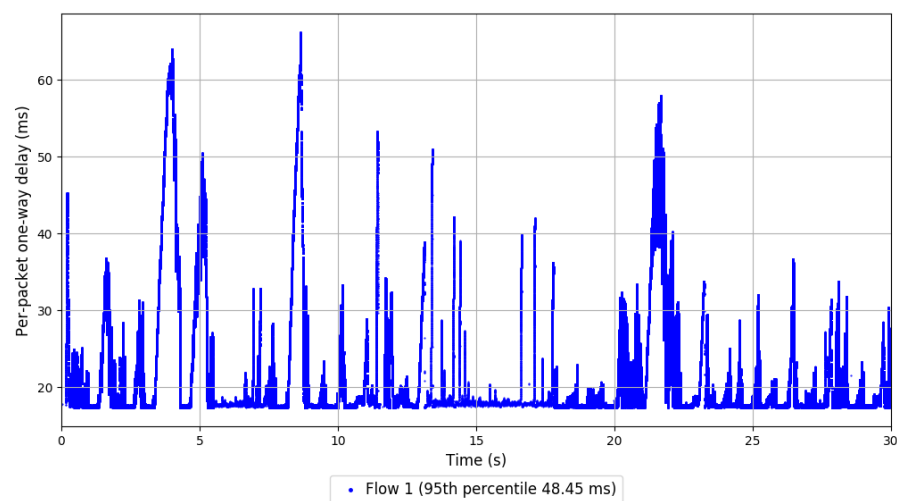
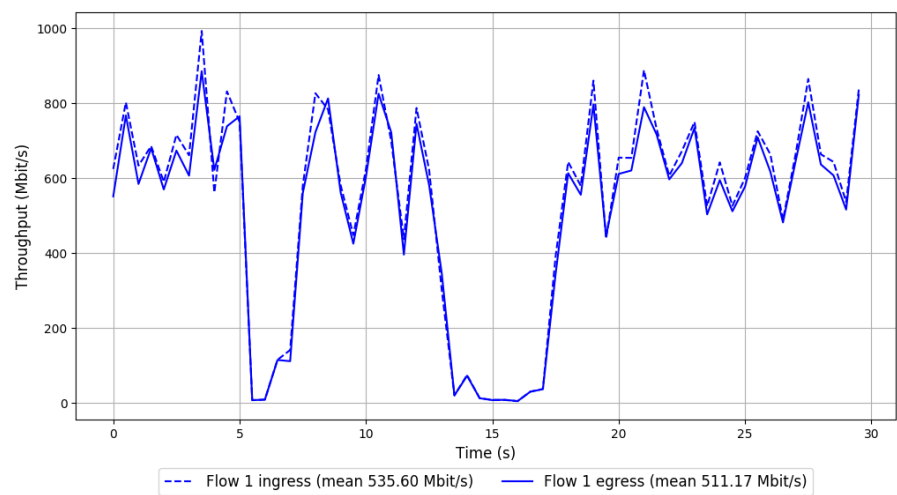


Run 10: Statistics of FillP

Start at: 2018-01-09 01:22:52
End at: 2018-01-09 01:23:22
Local clock offset: -1.871 ms
Remote clock offset: -1.724 ms

Below is generated by plot.py at 2018-01-09 06:17:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 511.17 Mbit/s
95th percentile per-packet one-way delay: 48.453 ms
Loss rate: 4.56%
-- Flow 1:
Average throughput: 511.17 Mbit/s
95th percentile per-packet one-way delay: 48.453 ms
Loss rate: 4.56%

Run 10: Report of FillP — Data Link

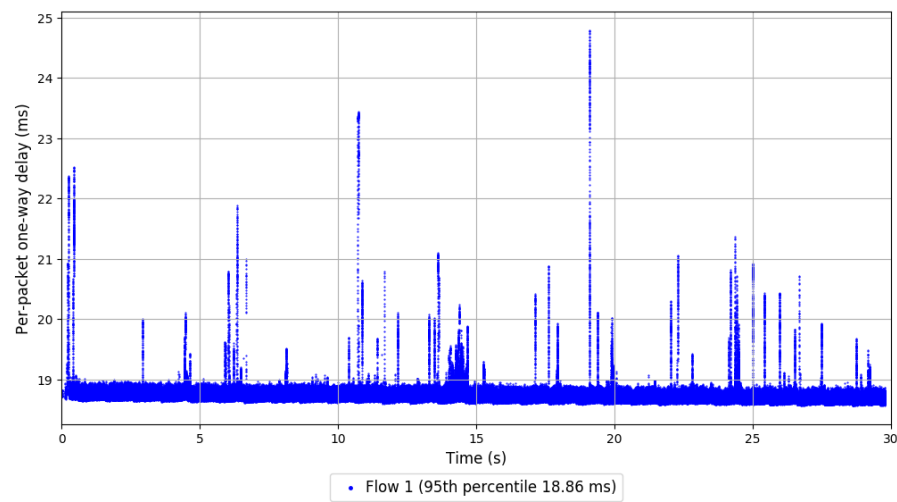
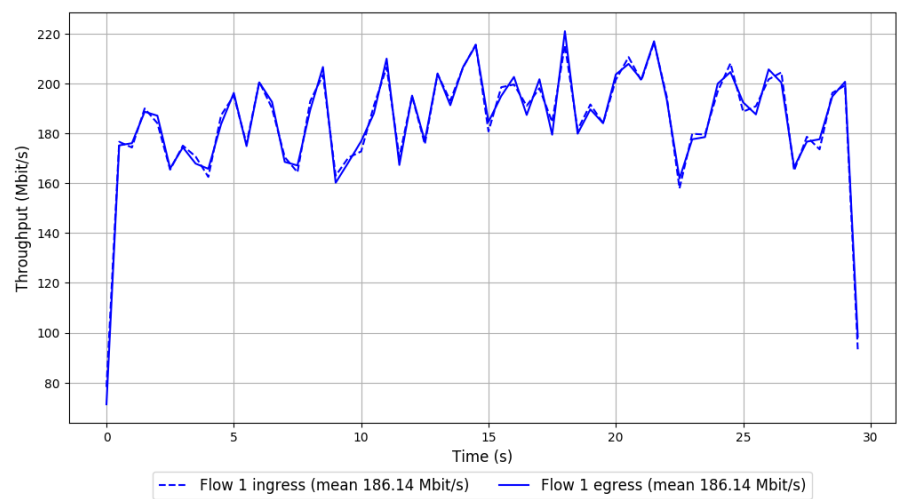


```
Run 1: Statistics of Indigo

Start at: 2018-01-08 22:32:56
End at: 2018-01-08 22:33:26
Local clock offset: -19.089 ms
Remote clock offset: -1.981 ms

# Below is generated by plot.py at 2018-01-09 06:17:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 186.14 Mbit/s
95th percentile per-packet one-way delay: 18.864 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 186.14 Mbit/s
95th percentile per-packet one-way delay: 18.864 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

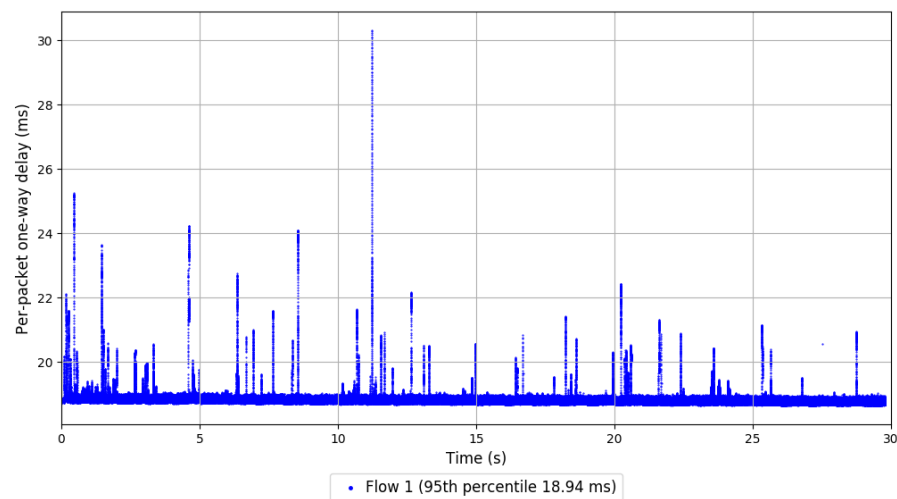
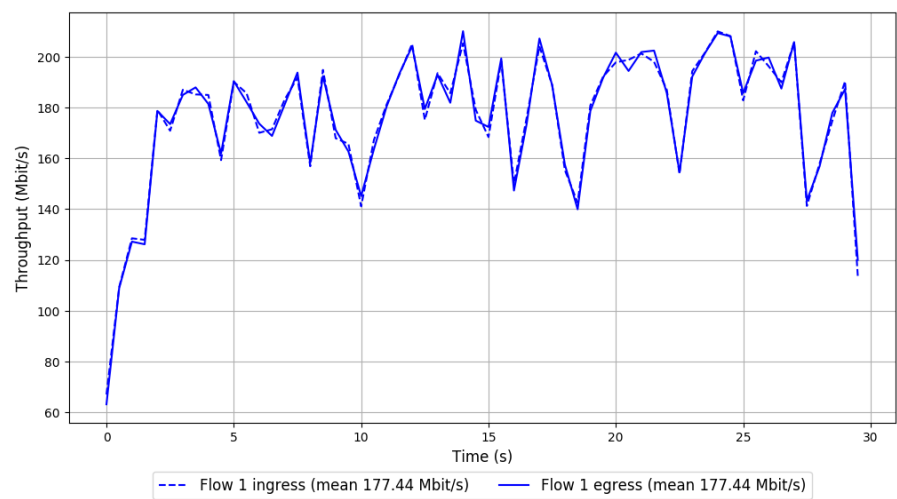


Run 2: Statistics of Indigo

Start at: 2018-01-08 22:53:02
End at: 2018-01-08 22:53:32
Local clock offset: -21.259 ms
Remote clock offset: -1.663 ms

Below is generated by plot.py at 2018-01-09 06:17:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 177.44 Mbit/s
95th percentile per-packet one-way delay: 18.940 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 177.44 Mbit/s
95th percentile per-packet one-way delay: 18.940 ms
Loss rate: 0.01%

Run 2: Report of Indigo — Data Link

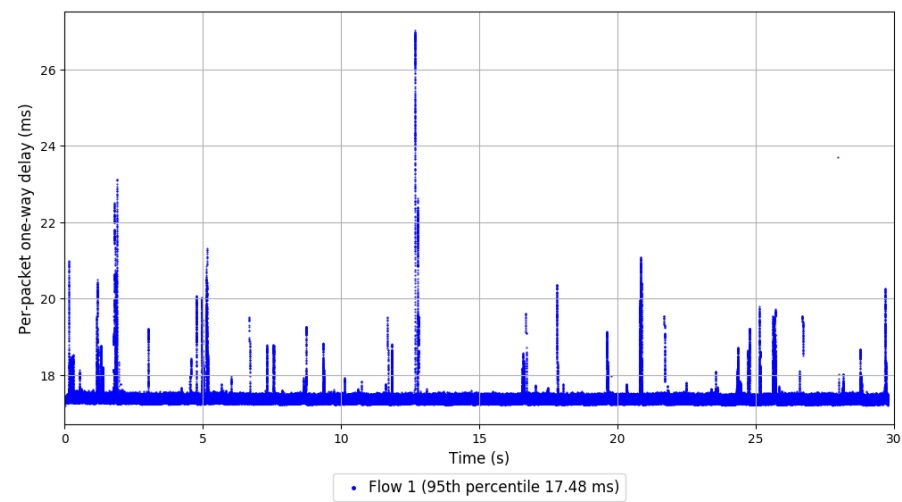
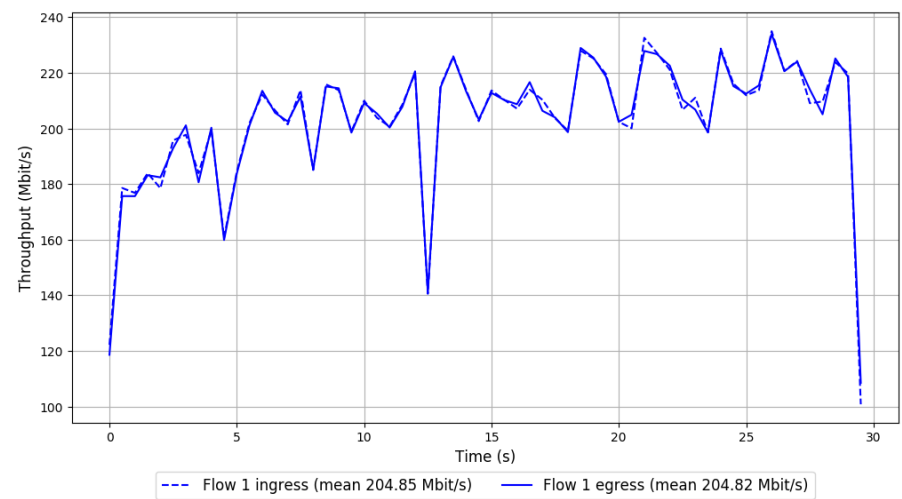


Run 3: Statistics of Indigo

Start at: 2018-01-08 23:13:08
End at: 2018-01-08 23:13:38
Local clock offset: -22.616 ms
Remote clock offset: -1.419 ms

Below is generated by plot.py at 2018-01-09 06:17:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 204.82 Mbit/s
95th percentile per-packet one-way delay: 17.482 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 204.82 Mbit/s
95th percentile per-packet one-way delay: 17.482 ms
Loss rate: 0.02%

Run 3: Report of Indigo — Data Link

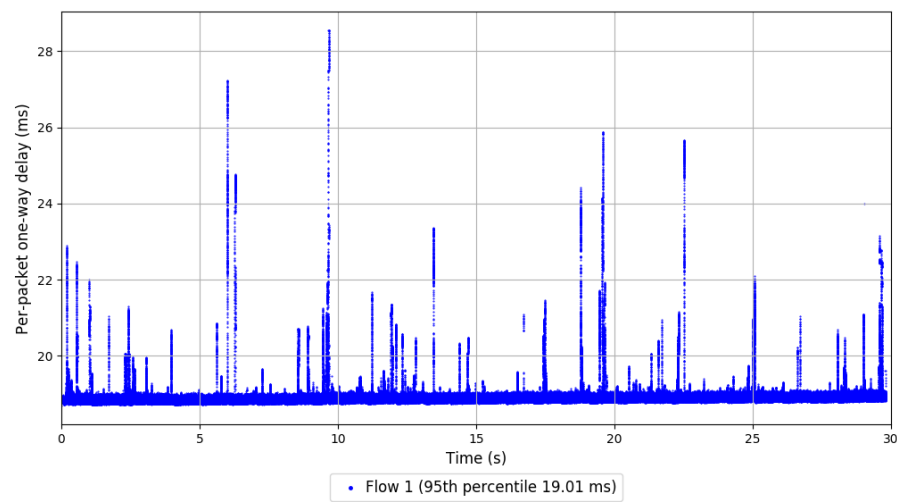
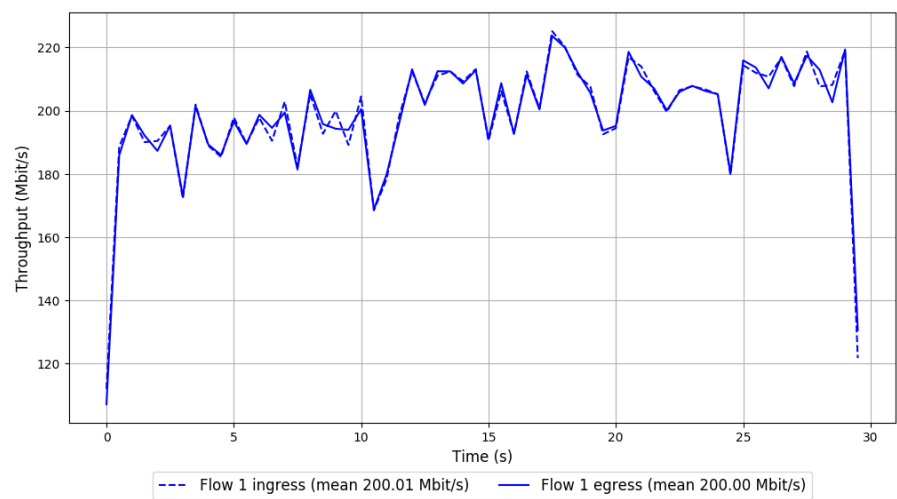


Run 4: Statistics of Indigo

Start at: 2018-01-08 23:33:36
End at: 2018-01-08 23:34:06
Local clock offset: -24.129 ms
Remote clock offset: -1.653 ms

Below is generated by plot.py at 2018-01-09 06:17:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 200.00 Mbit/s
95th percentile per-packet one-way delay: 19.010 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 200.00 Mbit/s
95th percentile per-packet one-way delay: 19.010 ms
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

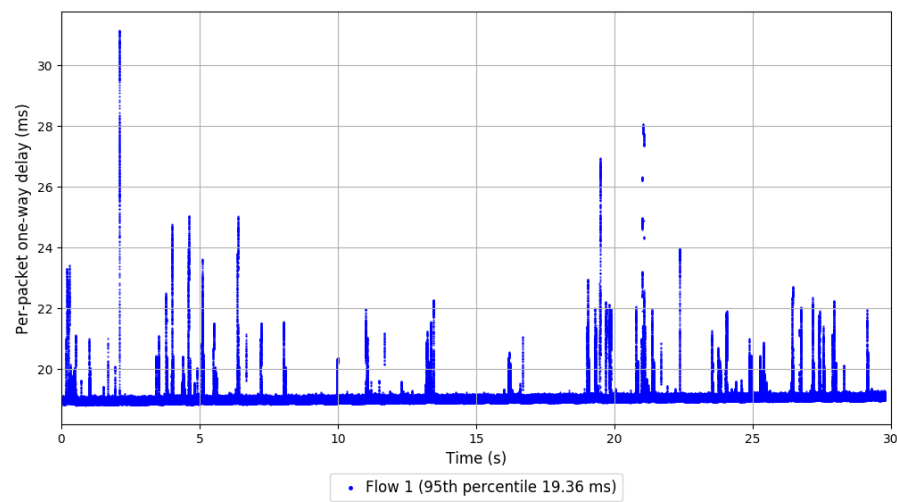
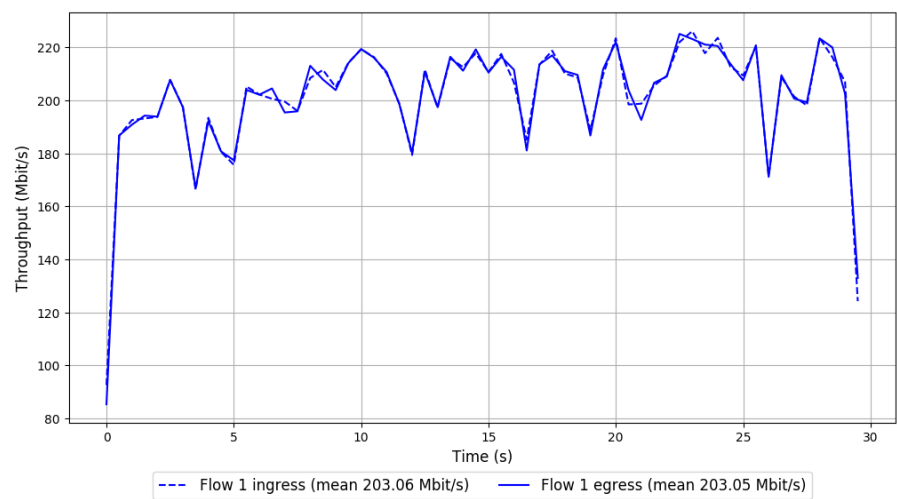


Run 5: Statistics of Indigo

Start at: 2018-01-08 23:53:35
End at: 2018-01-08 23:54:05
Local clock offset: -17.182 ms
Remote clock offset: -1.176 ms

Below is generated by plot.py at 2018-01-09 06:17:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 203.05 Mbit/s
95th percentile per-packet one-way delay: 19.357 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 203.05 Mbit/s
95th percentile per-packet one-way delay: 19.357 ms
Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

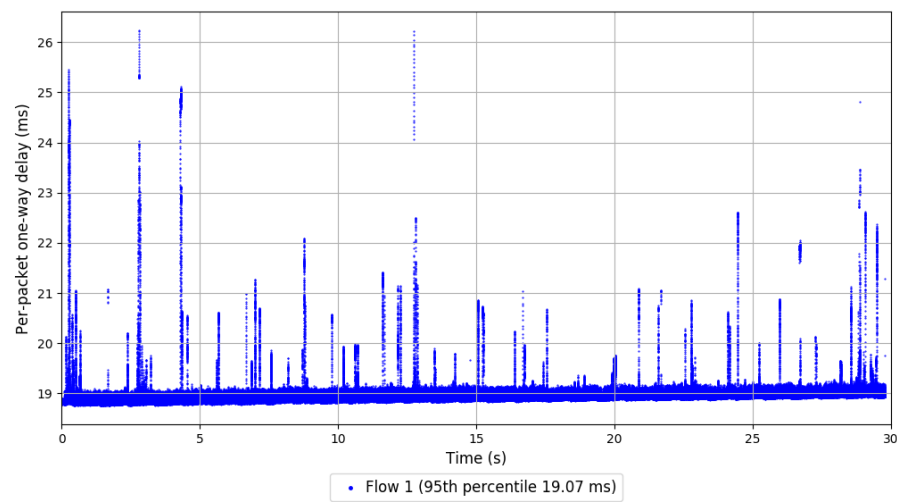
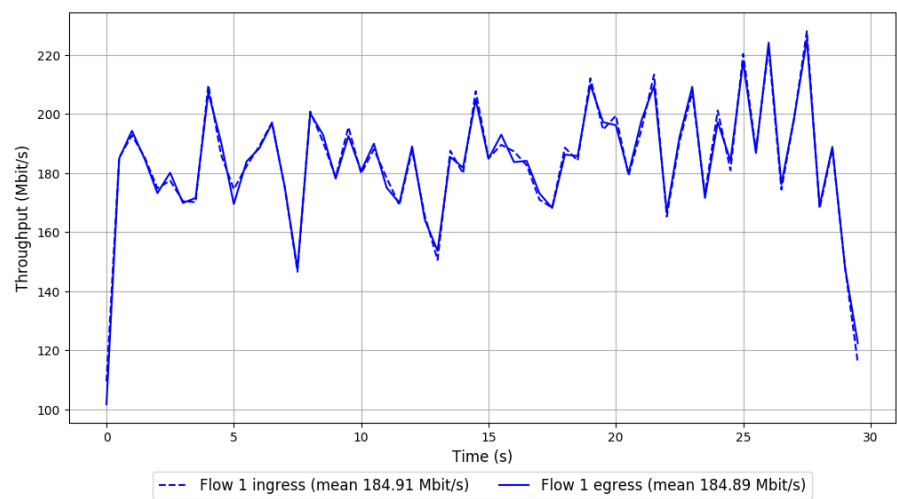


Run 6: Statistics of Indigo

Start at: 2018-01-09 00:13:33
End at: 2018-01-09 00:14:03
Local clock offset: -12.012 ms
Remote clock offset: -1.467 ms

Below is generated by plot.py at 2018-01-09 06:17:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 184.89 Mbit/s
95th percentile per-packet one-way delay: 19.072 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 184.89 Mbit/s
95th percentile per-packet one-way delay: 19.072 ms
Loss rate: 0.01%

Run 6: Report of Indigo — Data Link

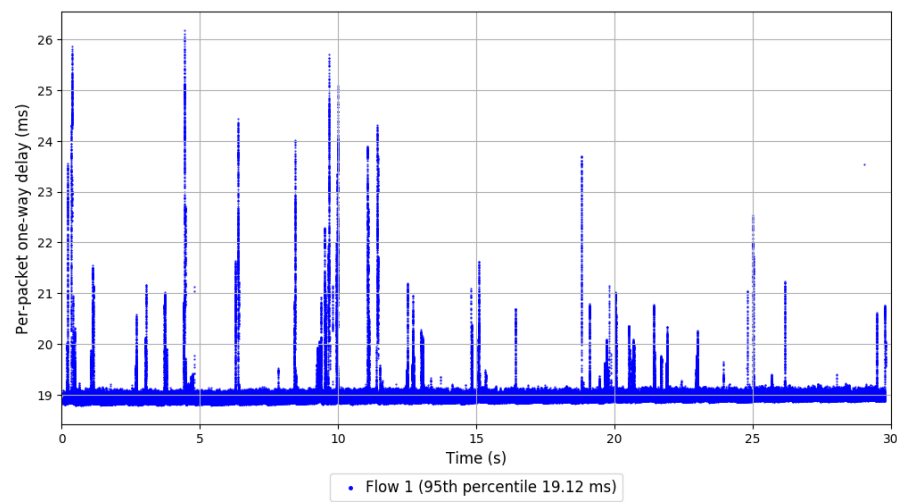
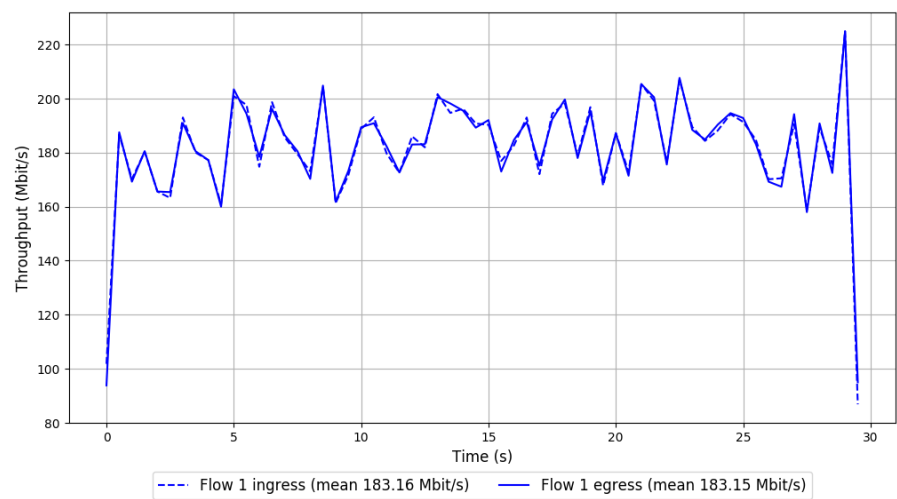


Run 7: Statistics of Indigo

Start at: 2018-01-09 00:33:24
End at: 2018-01-09 00:33:54
Local clock offset: -7.565 ms
Remote clock offset: -1.898 ms

Below is generated by plot.py at 2018-01-09 06:17:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 183.15 Mbit/s
95th percentile per-packet one-way delay: 19.124 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 183.15 Mbit/s
95th percentile per-packet one-way delay: 19.124 ms
Loss rate: 0.00%

Run 7: Report of Indigo — Data Link

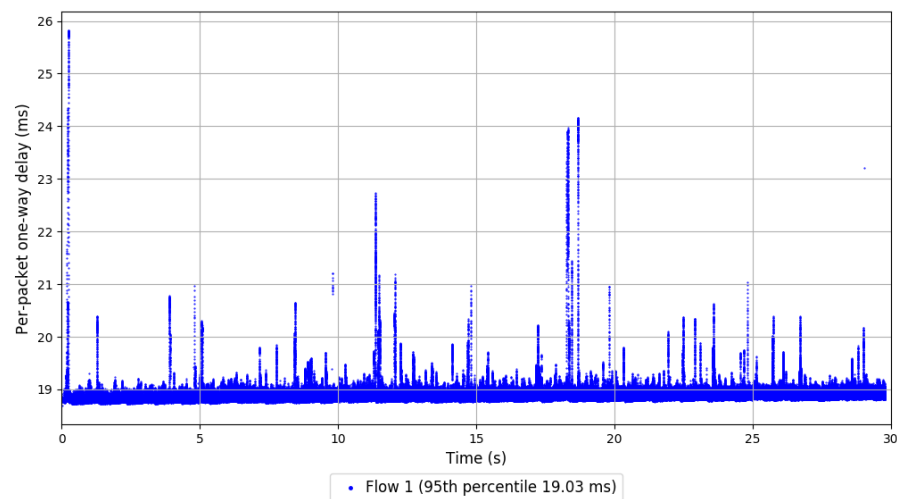
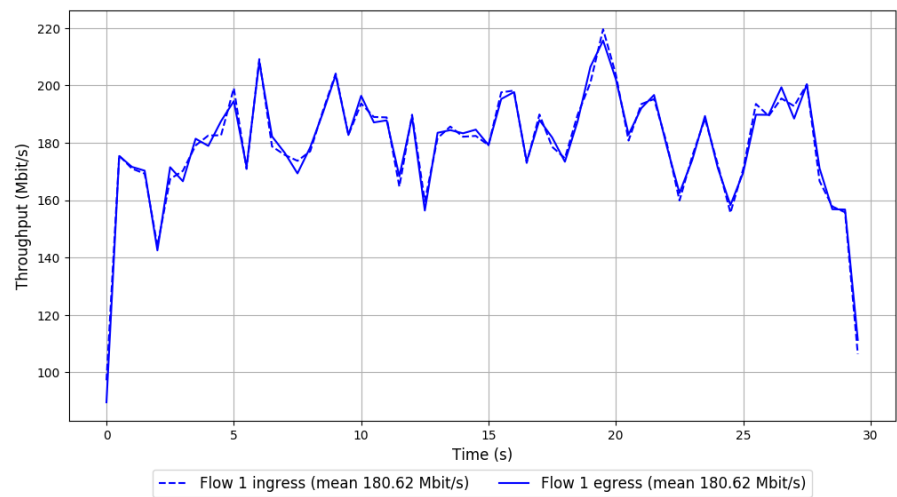


Run 8: Statistics of Indigo

Start at: 2018-01-09 00:53:35
End at: 2018-01-09 00:54:05
Local clock offset: -5.165 ms
Remote clock offset: -2.309 ms

Below is generated by plot.py at 2018-01-09 06:17:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 180.62 Mbit/s
95th percentile per-packet one-way delay: 19.033 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 180.62 Mbit/s
95th percentile per-packet one-way delay: 19.033 ms
Loss rate: 0.00%

Run 8: Report of Indigo — Data Link

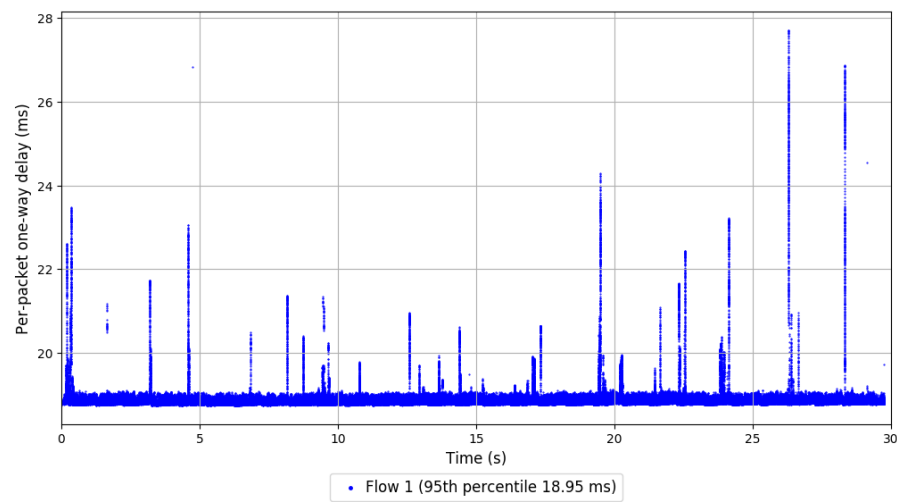
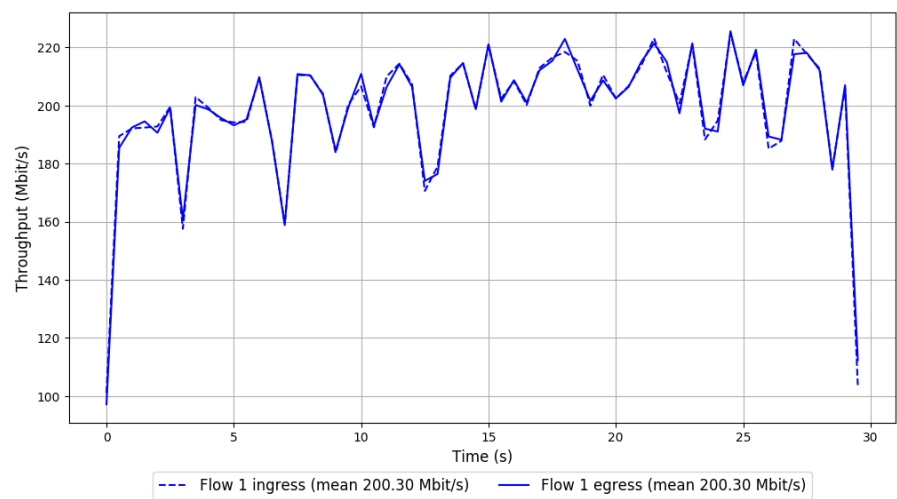


Run 9: Statistics of Indigo

Start at: 2018-01-09 01:13:31
End at: 2018-01-09 01:14:01
Local clock offset: -2.47 ms
Remote clock offset: -1.954 ms

Below is generated by plot.py at 2018-01-09 06:17:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 200.30 Mbit/s
95th percentile per-packet one-way delay: 18.951 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 200.30 Mbit/s
95th percentile per-packet one-way delay: 18.951 ms
Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-09 01:33:47
End at: 2018-01-09 01:34:17
Local clock offset: -0.508 ms
Remote clock offset: -1.733 ms

Below is generated by plot.py at 2018-01-09 06:17:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 186.12 Mbit/s
95th percentile per-packet one-way delay: 17.686 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 186.12 Mbit/s
95th percentile per-packet one-way delay: 17.686 ms
Loss rate: 0.03%

Run 10: Report of Indigo — Data Link

