

Pantheon Report

Generated at 2018-01-02 03:46:31 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

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

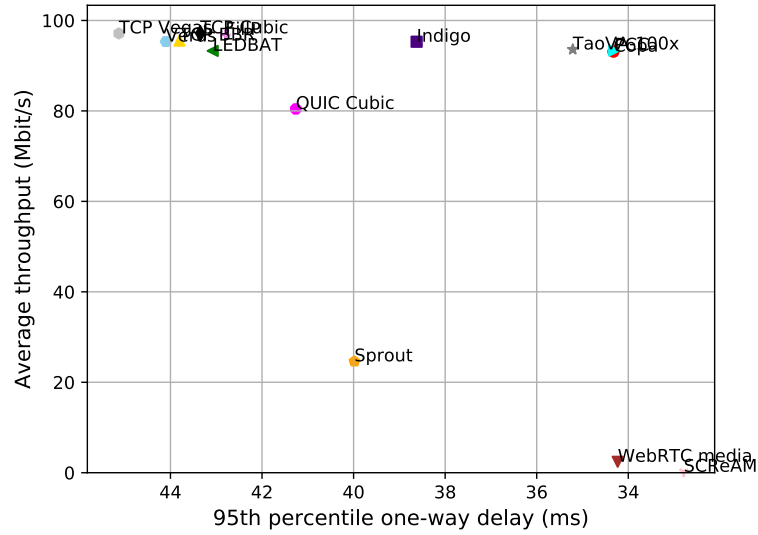
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

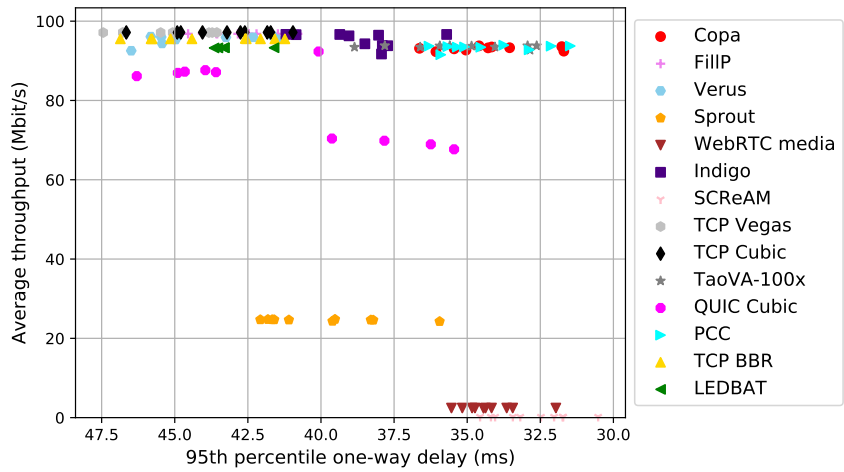
Git summary:

```
branch: master @ 904a5750834816b1e46a2c86405d707788d27c16
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ dcaef6b00654e660f73f7ed679d2eab61ce08639
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



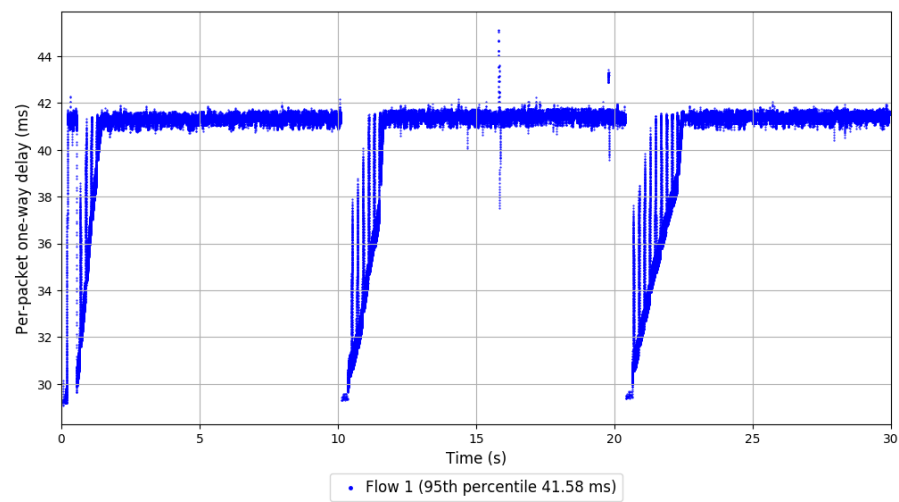
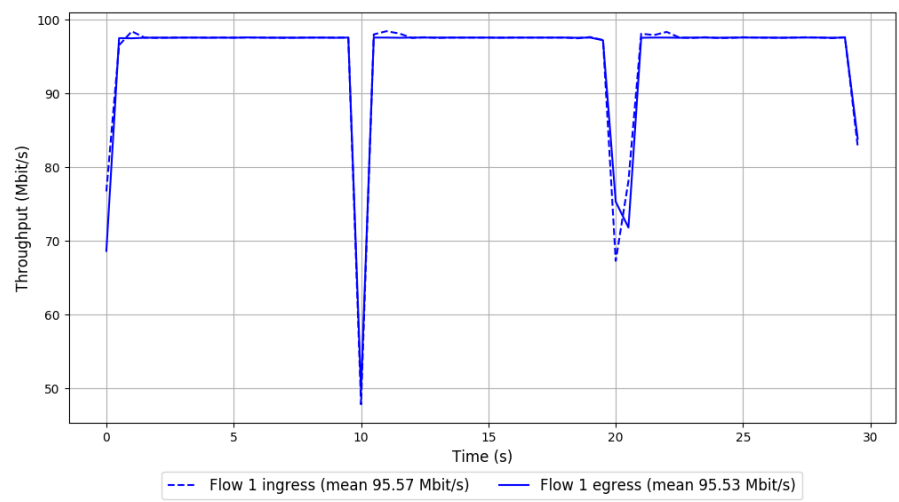
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	95.55	43.80	0.13
TCP Cubic	10	97.16	43.35	0.12
LEDBAT	5	93.28	43.08	0.13
PCC	10	93.34	34.31	0.08
QUIC Cubic	10	80.43	41.26	0.09
SCReAM	10	0.21	32.79	0.12
WebRTC media	10	2.41	34.23	0.10
Sprout	10	24.62	39.98	0.11
TaoVA-100x	10	93.59	35.21	0.10
TCP Vegas	7	97.13	45.13	0.09
Verus	9	95.34	44.10	0.12
Copa	10	93.10	34.32	0.09
FillP	10	96.81	42.80	0.12
Indigo	10	95.30	38.62	0.08

Run 1: Statistics of TCP BBR

Start at: 2018-01-01 21:34:05
End at: 2018-01-01 21:34:35
Local clock offset: -2.733 ms
Remote clock offset: -18.604 ms

Below is generated by plot.py at 2018-01-02 03:26:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.53 Mbit/s
95th percentile per-packet one-way delay: 41.579 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 95.53 Mbit/s
95th percentile per-packet one-way delay: 41.579 ms
Loss rate: 0.12%

Run 1: Report of TCP BBR — Data Link

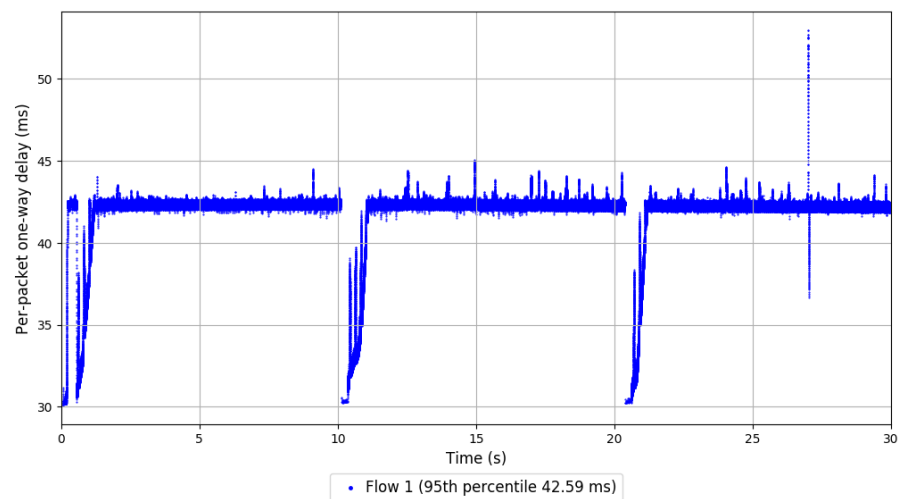
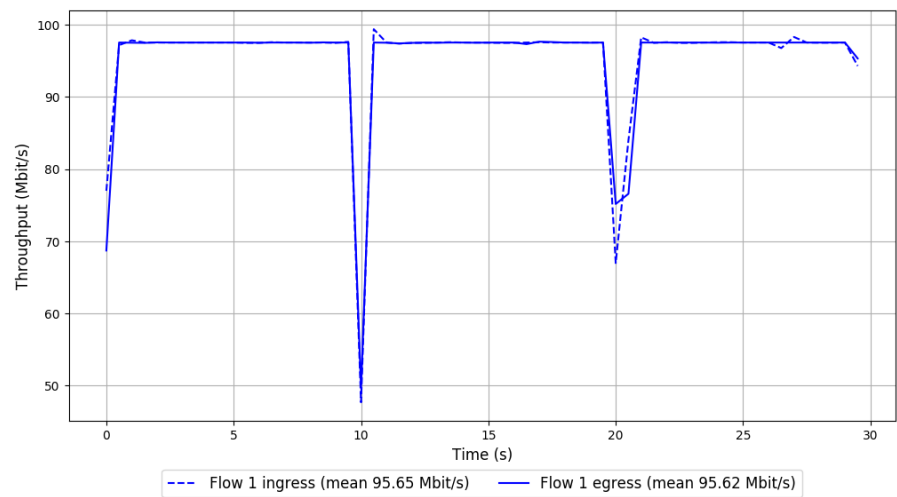


Run 2: Statistics of TCP BBR

Start at: 2018-01-01 21:51:45
End at: 2018-01-01 21:52:15
Local clock offset: -5.512 ms
Remote clock offset: -19.047 ms

Below is generated by plot.py at 2018-01-02 03:26:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 42.590 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 42.590 ms
Loss rate: 0.13%

Run 2: Report of TCP BBR — Data Link

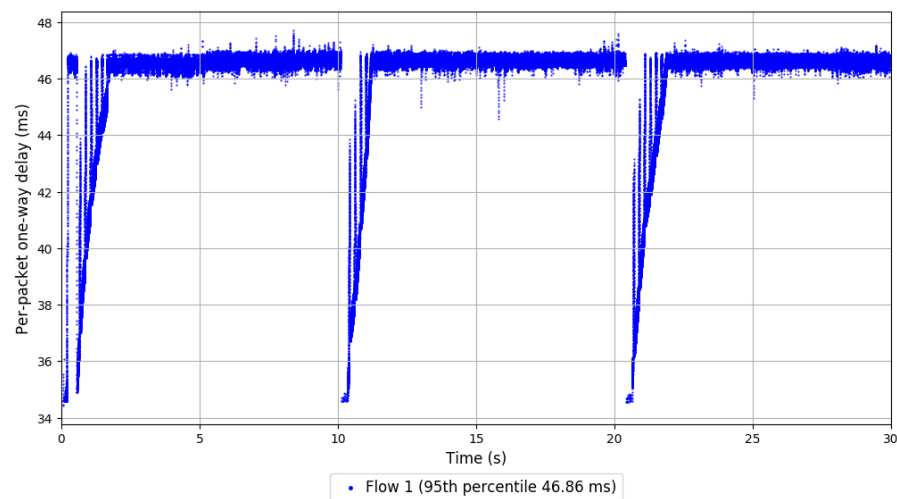
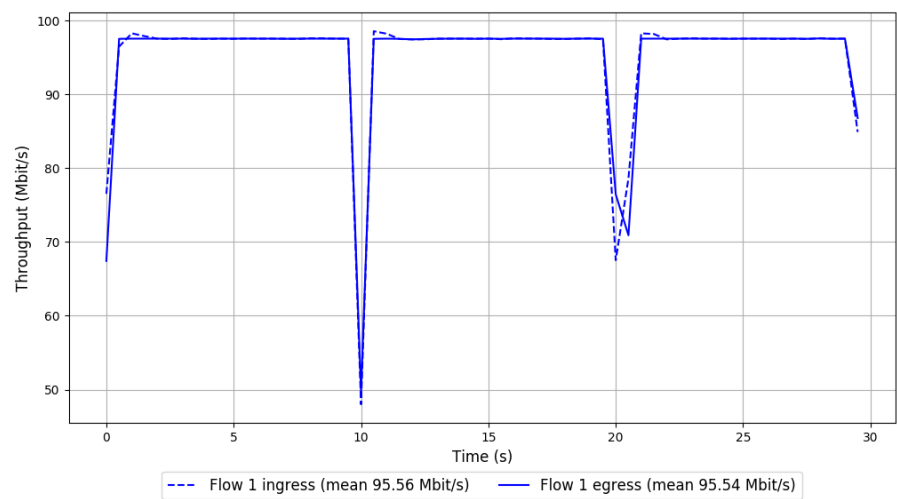


Run 3: Statistics of TCP BBR

Start at: 2018-01-01 22:09:17
End at: 2018-01-01 22:09:47
Local clock offset: -4.372 ms
Remote clock offset: -19.787 ms

Below is generated by plot.py at 2018-01-02 03:26:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.54 Mbit/s
95th percentile per-packet one-way delay: 46.860 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 95.54 Mbit/s
95th percentile per-packet one-way delay: 46.860 ms
Loss rate: 0.13%

Run 3: Report of TCP BBR — Data Link

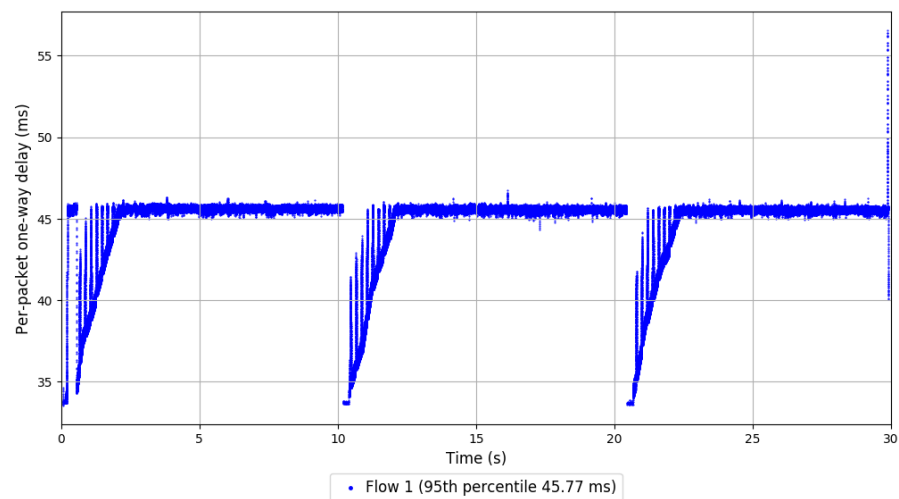
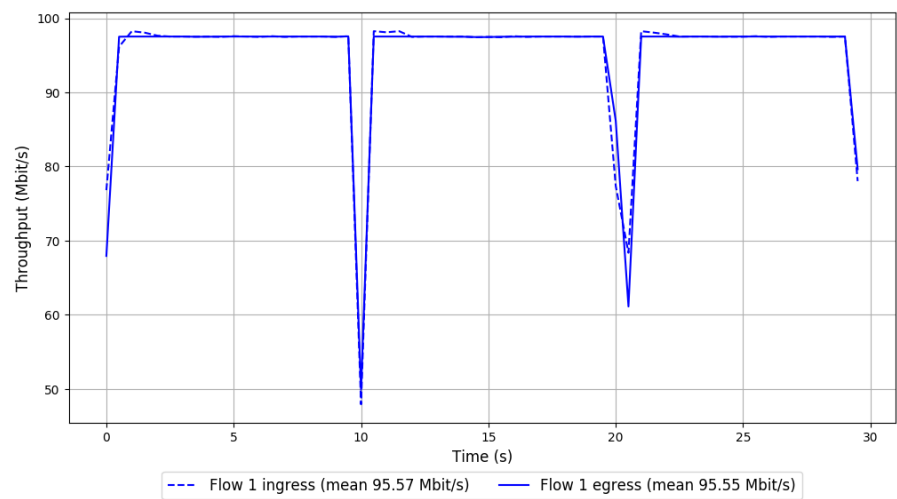


Run 4: Statistics of TCP BBR

Start at: 2018-01-01 22:26:33
End at: 2018-01-01 22:27:03
Local clock offset: -1.382 ms
Remote clock offset: -19.017 ms

Below is generated by plot.py at 2018-01-02 03:26:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.55 Mbit/s
95th percentile per-packet one-way delay: 45.774 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 95.55 Mbit/s
95th percentile per-packet one-way delay: 45.774 ms
Loss rate: 0.13%

Run 4: Report of TCP BBR — Data Link

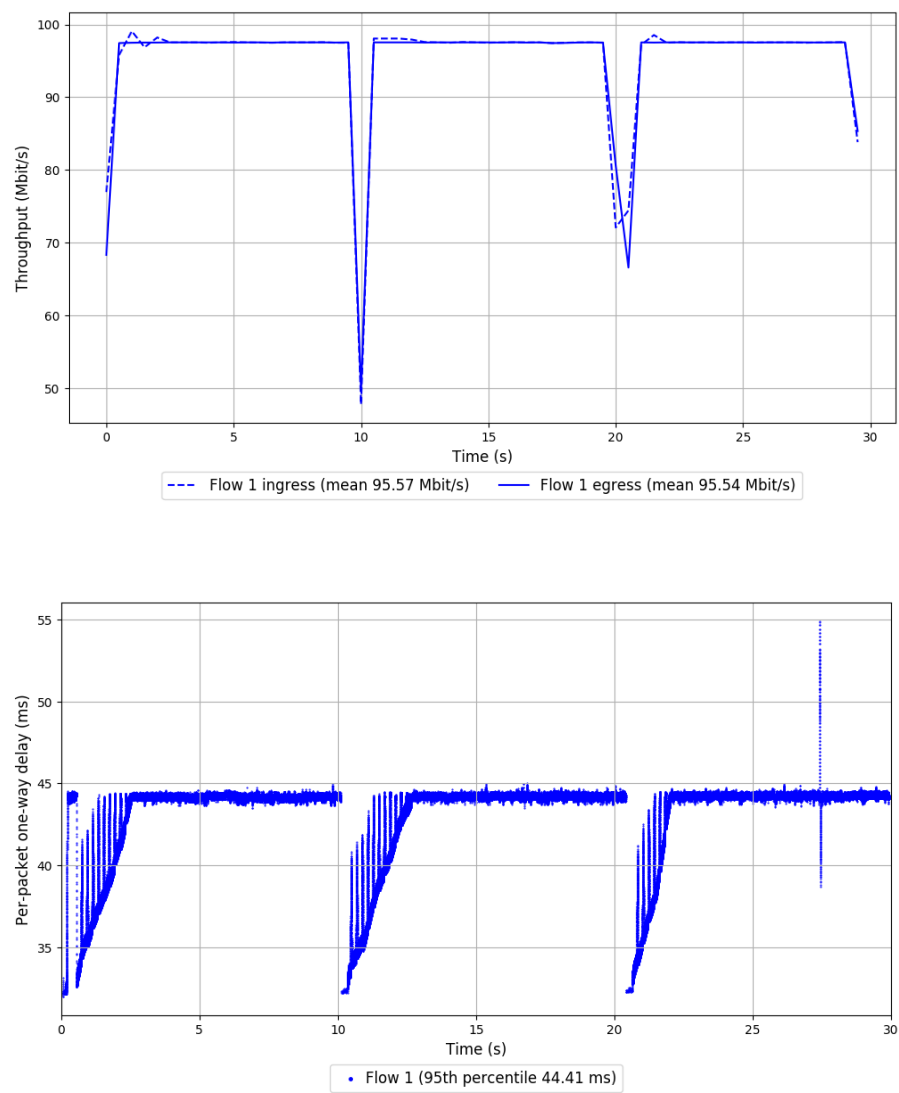


Run 5: Statistics of TCP BBR

Start at: 2018-01-01 22:43:46
End at: 2018-01-01 22:44:16
Local clock offset: -1.34 ms
Remote clock offset: -16.137 ms

Below is generated by plot.py at 2018-01-02 03:26:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.54 Mbit/s
95th percentile per-packet one-way delay: 44.414 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 95.54 Mbit/s
95th percentile per-packet one-way delay: 44.414 ms
Loss rate: 0.12%

Run 5: Report of TCP BBR — Data Link

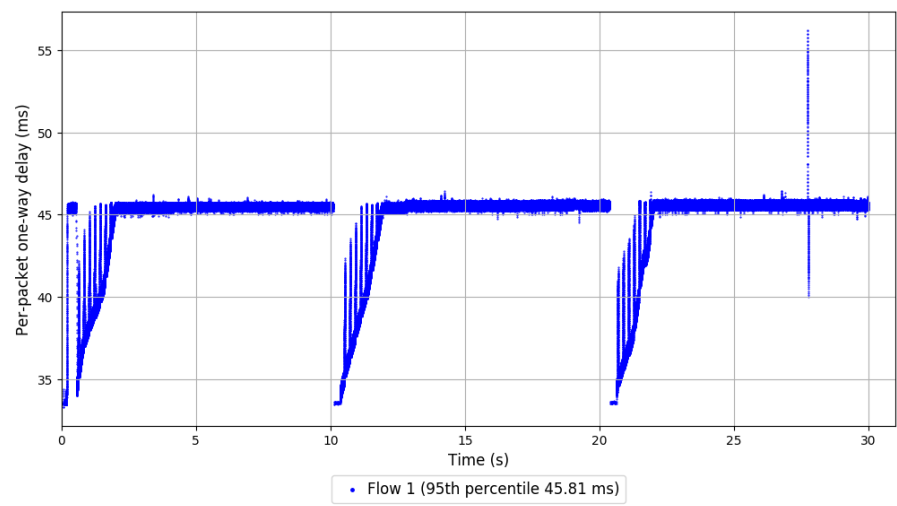
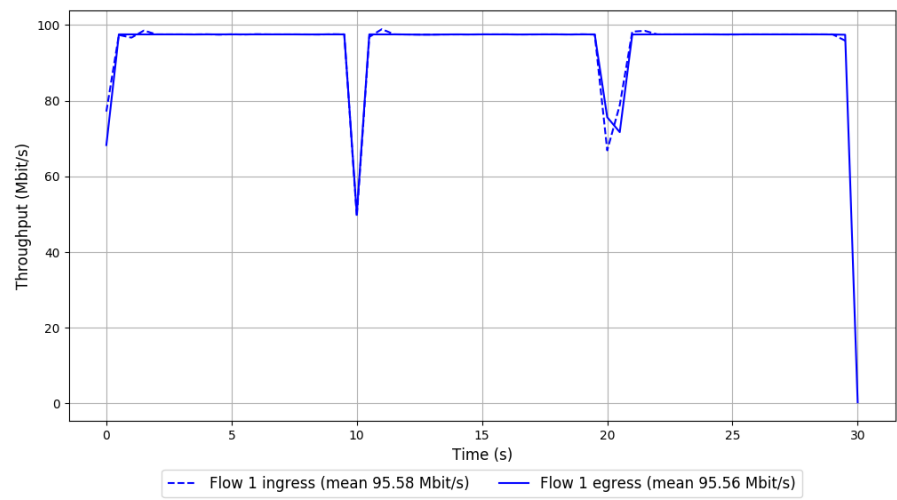


Run 6: Statistics of TCP BBR

Start at: 2018-01-01 23:01:00
End at: 2018-01-01 23:01:30
Local clock offset: -3.765 ms
Remote clock offset: -16.146 ms

Below is generated by plot.py at 2018-01-02 03:26:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.56 Mbit/s
95th percentile per-packet one-way delay: 45.809 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 95.56 Mbit/s
95th percentile per-packet one-way delay: 45.809 ms
Loss rate: 0.13%

Run 6: Report of TCP BBR — Data Link

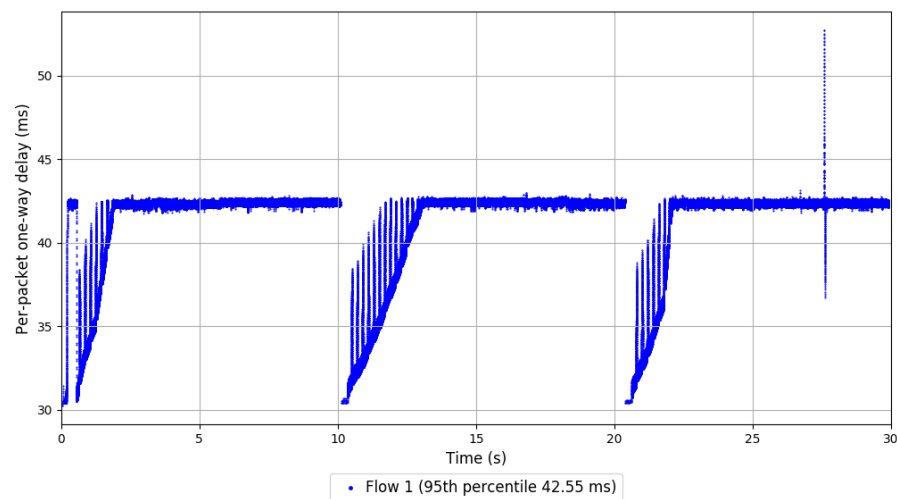
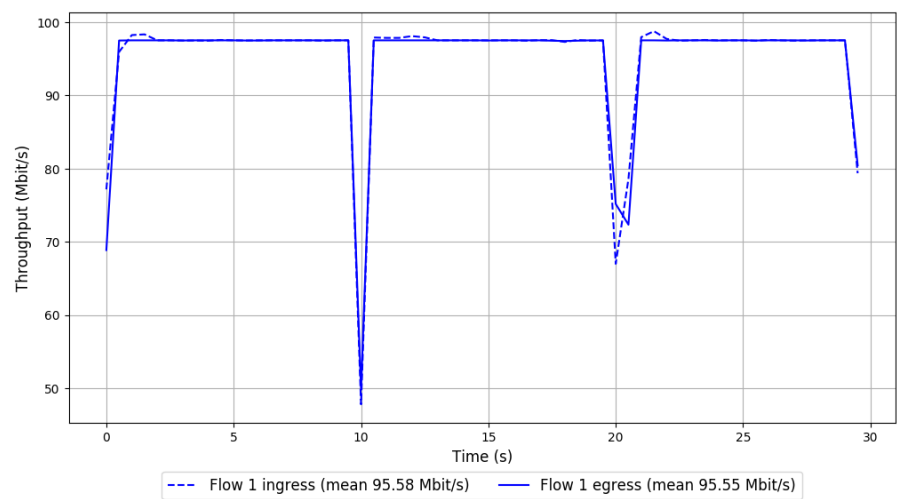


Run 7: Statistics of TCP BBR

Start at: 2018-01-01 23:18:15
End at: 2018-01-01 23:18:45
Local clock offset: -6.07 ms
Remote clock offset: -14.594 ms

Below is generated by plot.py at 2018-01-02 03:26:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.55 Mbit/s
95th percentile per-packet one-way delay: 42.555 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 95.55 Mbit/s
95th percentile per-packet one-way delay: 42.555 ms
Loss rate: 0.13%

Run 7: Report of TCP BBR — Data Link

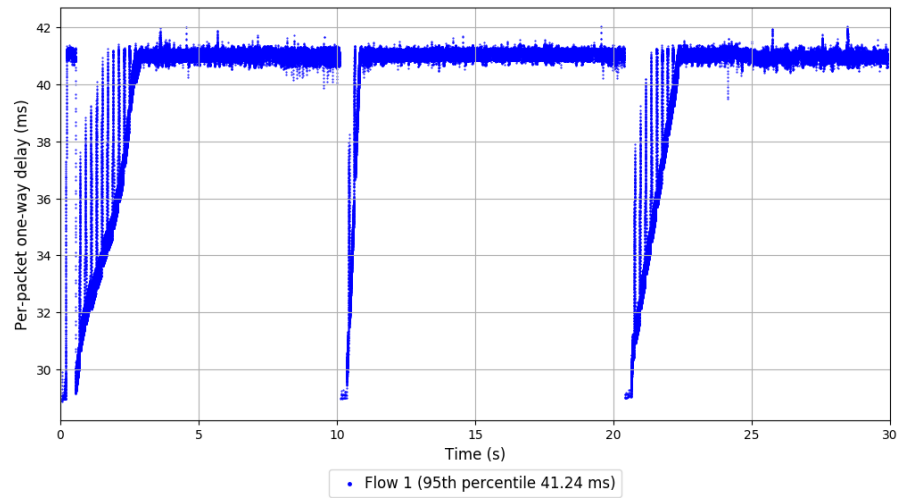
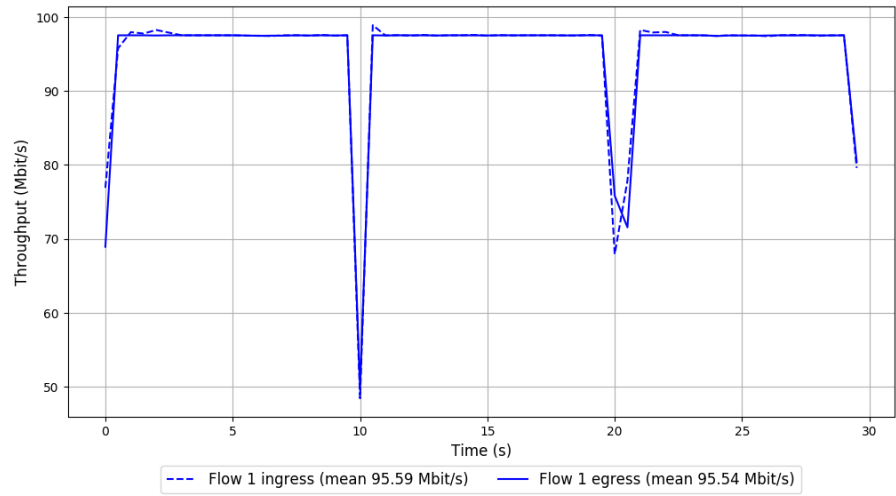


Run 8: Statistics of TCP BBR

Start at: 2018-01-01 23:35:25
End at: 2018-01-01 23:35:55
Local clock offset: -6.658 ms
Remote clock offset: -12.24 ms

Below is generated by plot.py at 2018-01-02 03:26:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.54 Mbit/s
95th percentile per-packet one-way delay: 41.236 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 95.54 Mbit/s
95th percentile per-packet one-way delay: 41.236 ms
Loss rate: 0.13%

Run 8: Report of TCP BBR — Data Link

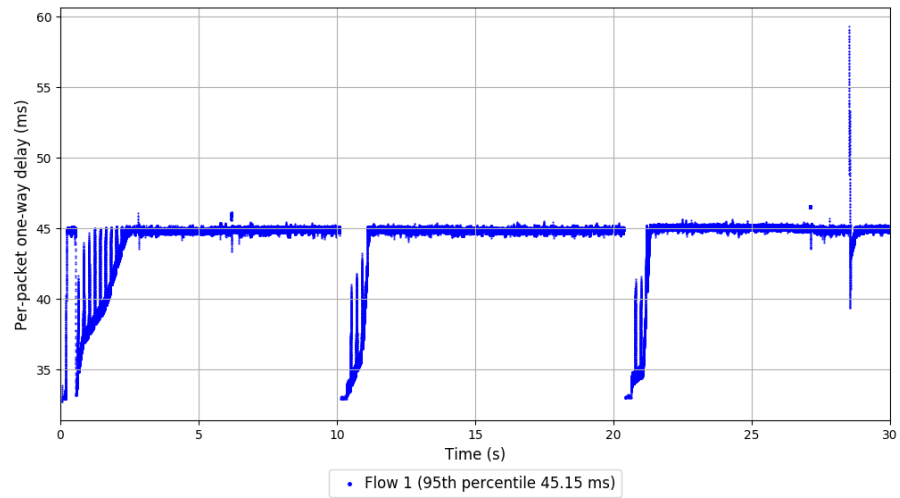
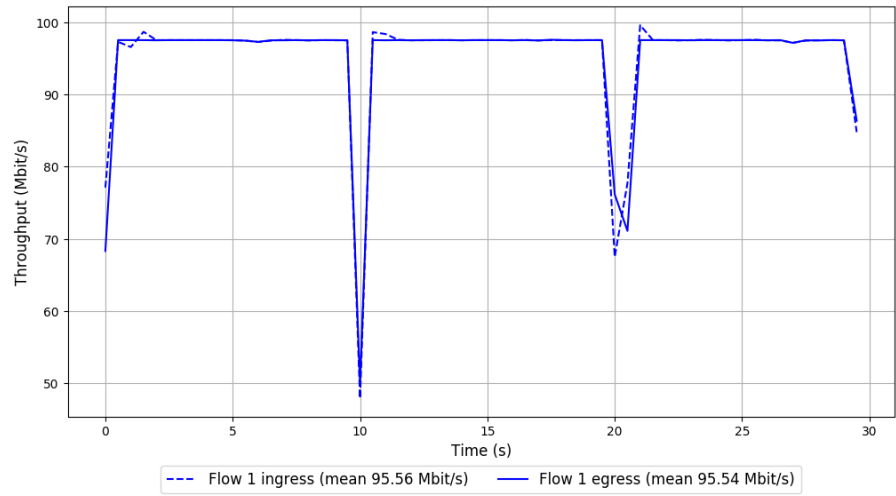


Run 9: Statistics of TCP BBR

Start at: 2018-01-01 23:52:46
End at: 2018-01-01 23:53:16
Local clock offset: -4.883 ms
Remote clock offset: -12.564 ms

Below is generated by plot.py at 2018-01-02 03:28:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.54 Mbit/s
95th percentile per-packet one-way delay: 45.145 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 95.54 Mbit/s
95th percentile per-packet one-way delay: 45.145 ms
Loss rate: 0.13%

Run 9: Report of TCP BBR — Data Link

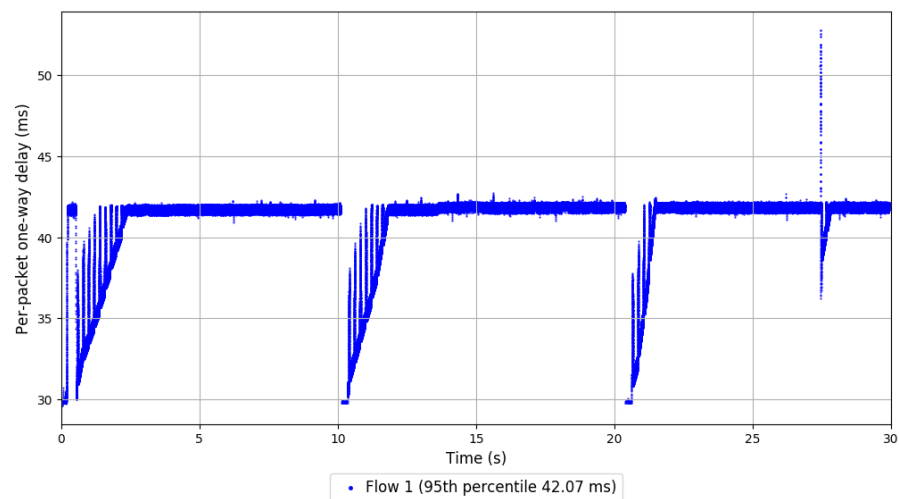
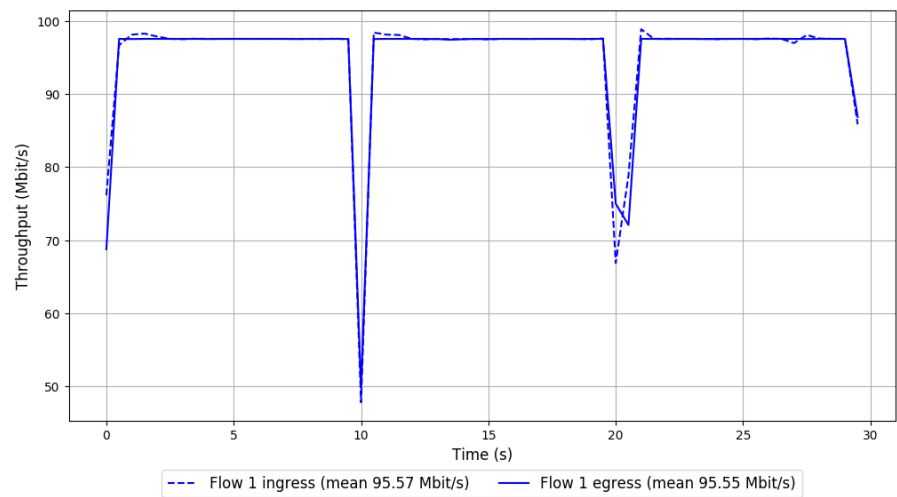


Run 10: Statistics of TCP BBR

Start at: 2018-01-02 00:10:04
End at: 2018-01-02 00:10:34
Local clock offset: -9.287 ms
Remote clock offset: -11.347 ms

Below is generated by plot.py at 2018-01-02 03:28:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.55 Mbit/s
95th percentile per-packet one-way delay: 42.067 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 95.55 Mbit/s
95th percentile per-packet one-way delay: 42.067 ms
Loss rate: 0.13%

Run 10: Report of TCP BBR — Data Link

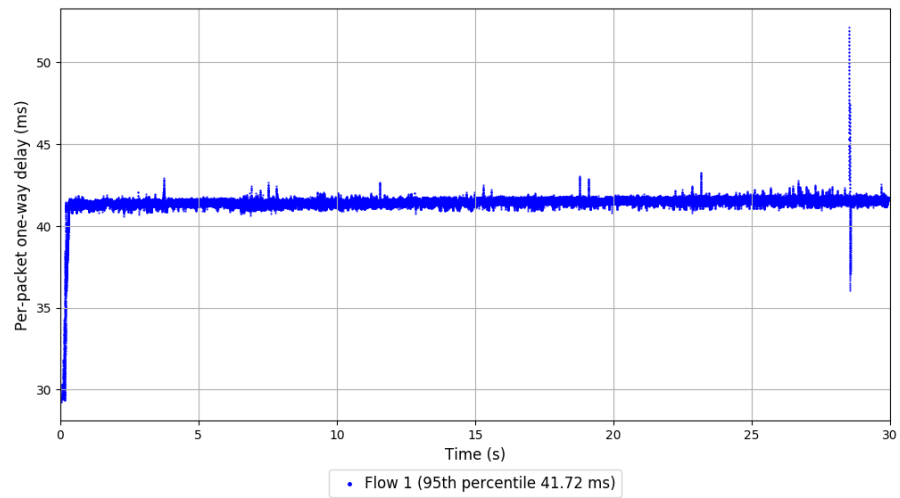
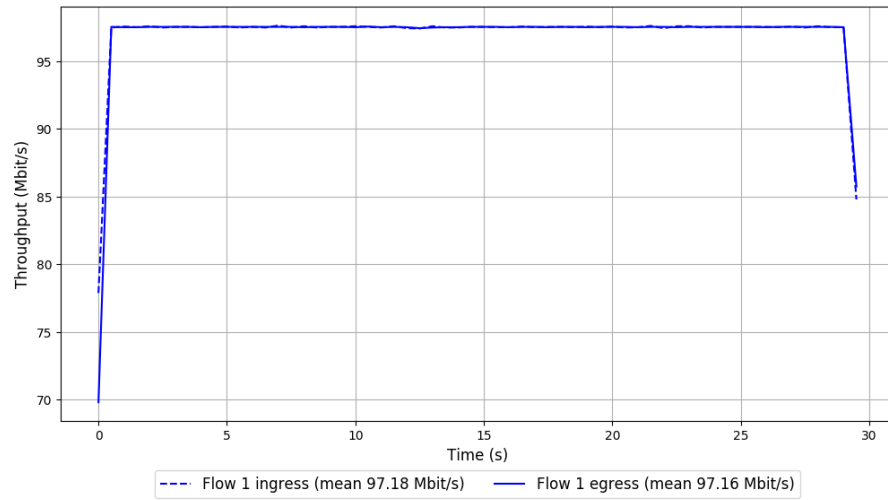


Run 1: Statistics of TCP Cubic

Start at: 2018-01-01 21:35:14
End at: 2018-01-01 21:35:44
Local clock offset: -3.475 ms
Remote clock offset: -18.873 ms

Below is generated by plot.py at 2018-01-02 03:28:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: 41.720 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: 41.720 ms
Loss rate: 0.12%

Run 1: Report of TCP Cubic — Data Link

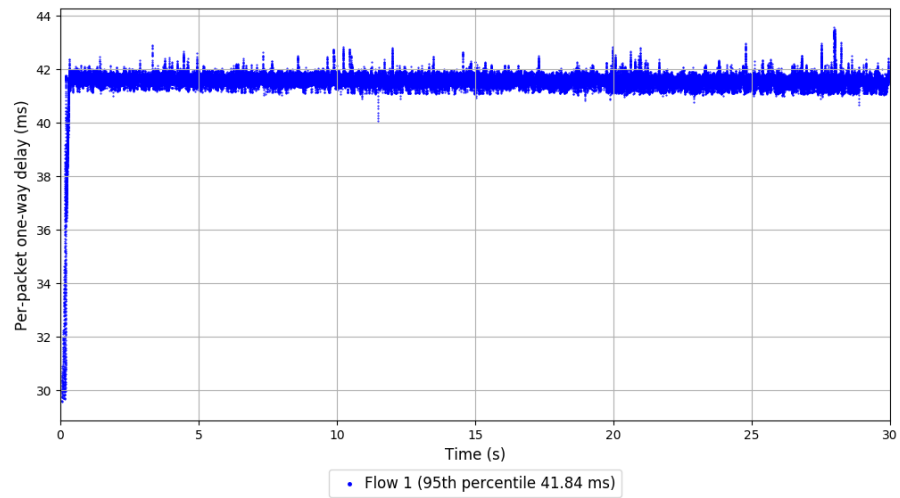
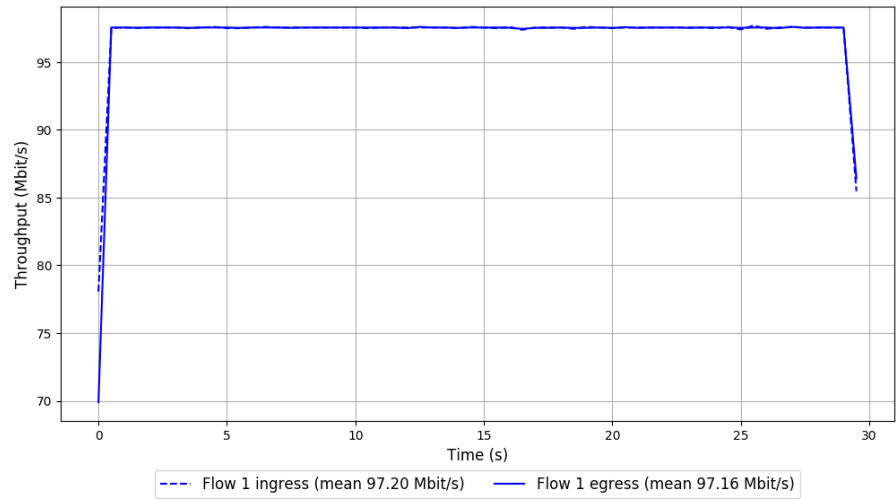


Run 2: Statistics of TCP Cubic

Start at: 2018-01-01 21:52:58
End at: 2018-01-01 21:53:28
Local clock offset: -5.024 ms
Remote clock offset: -18.427 ms

Below is generated by plot.py at 2018-01-02 03:28:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: 41.836 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: 41.836 ms
Loss rate: 0.12%

Run 2: Report of TCP Cubic — Data Link

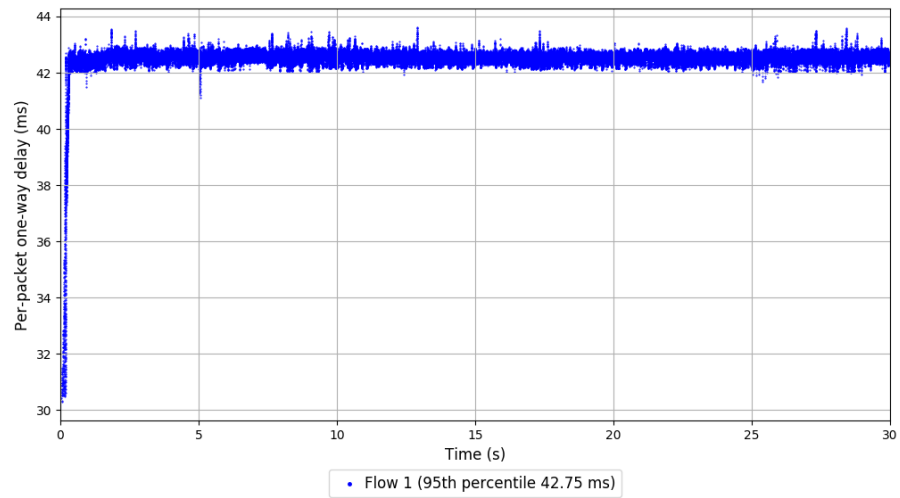
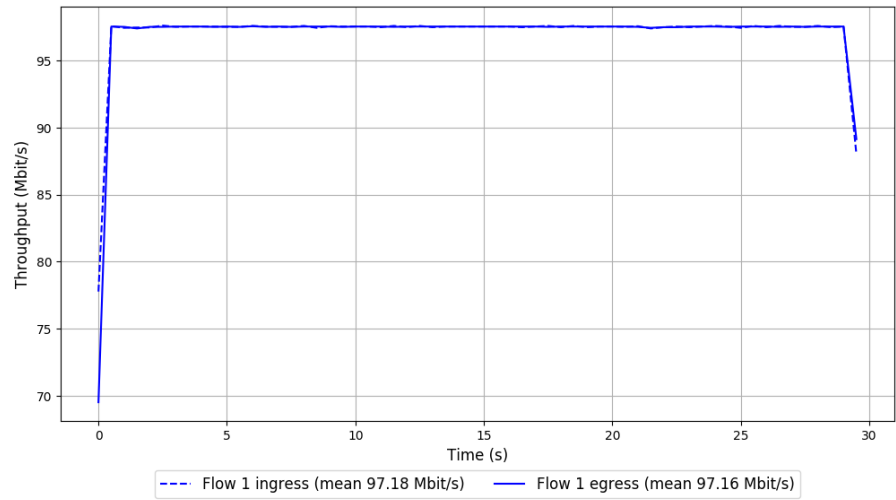


Run 3: Statistics of TCP Cubic

Start at: 2018-01-01 22:10:28
End at: 2018-01-01 22:10:58
Local clock offset: -7.834 ms
Remote clock offset: -19.235 ms

Below is generated by plot.py at 2018-01-02 03:28:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: 42.753 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: 42.753 ms
Loss rate: 0.12%

Run 3: Report of TCP Cubic — Data Link

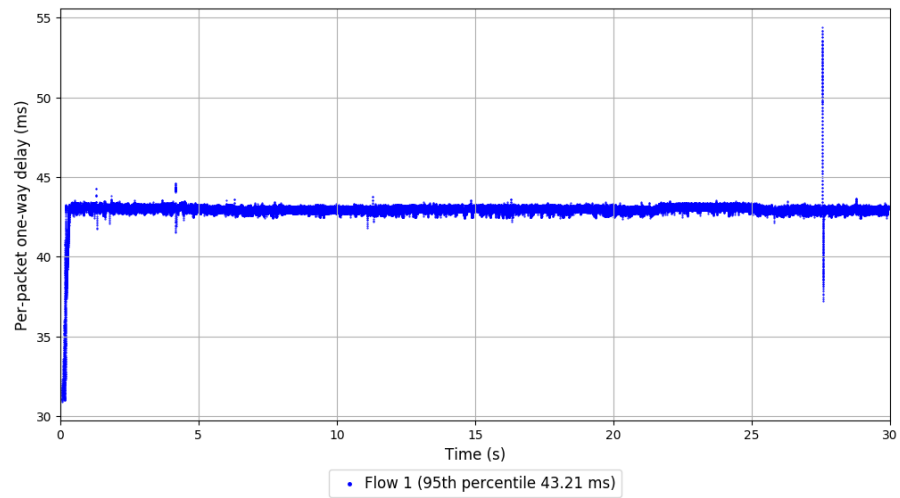
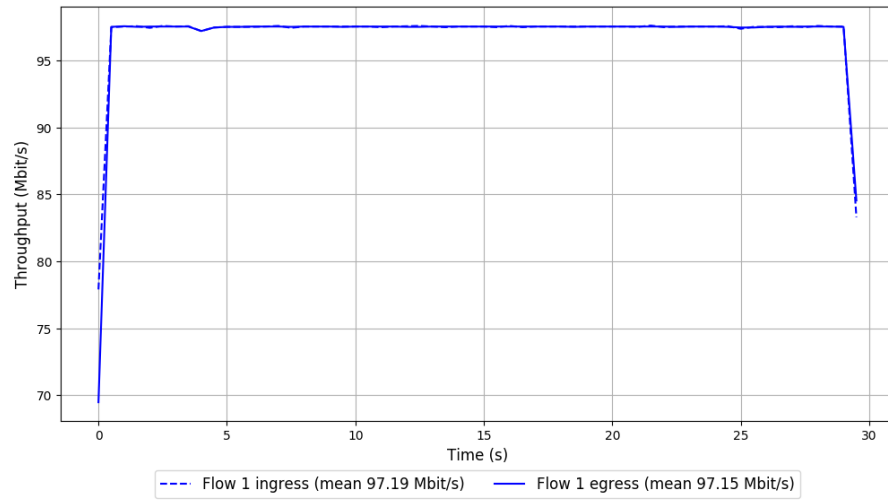


Run 4: Statistics of TCP Cubic

Start at: 2018-01-01 22:27:42
End at: 2018-01-01 22:28:12
Local clock offset: -5.005 ms
Remote clock offset: -20.143 ms

Below is generated by plot.py at 2018-01-02 03:28:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 43.213 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 43.213 ms
Loss rate: 0.12%

Run 4: Report of TCP Cubic — Data Link

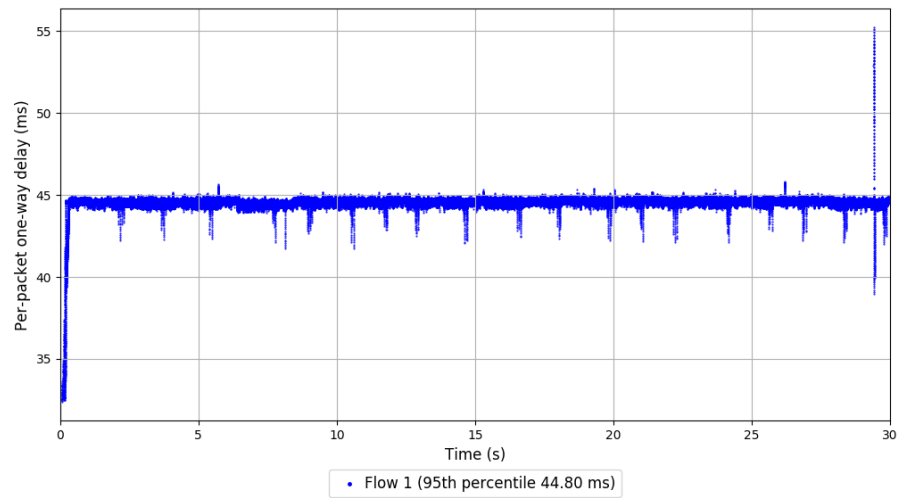
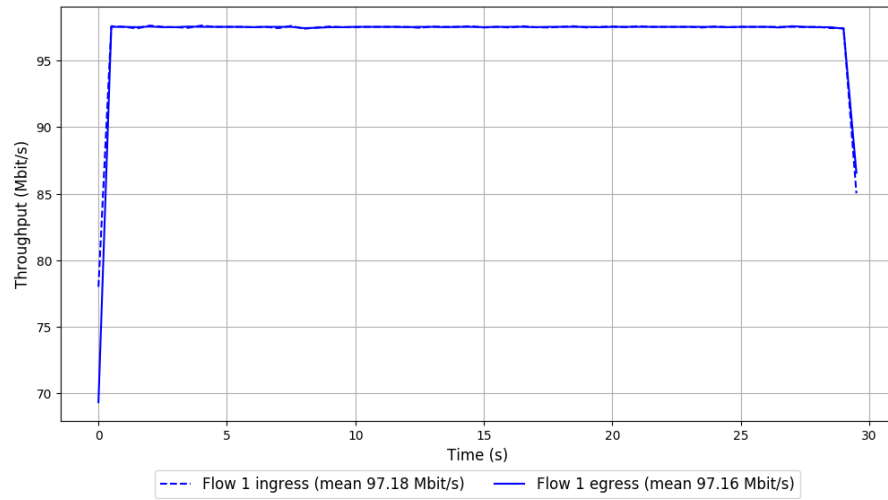


Run 5: Statistics of TCP Cubic

Start at: 2018-01-01 22:44:55
End at: 2018-01-01 22:45:25
Local clock offset: -3.52 ms
Remote clock offset: -18.341 ms

Below is generated by plot.py at 2018-01-02 03:28:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: 44.795 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: 44.795 ms
Loss rate: 0.12%

Run 5: Report of TCP Cubic — Data Link

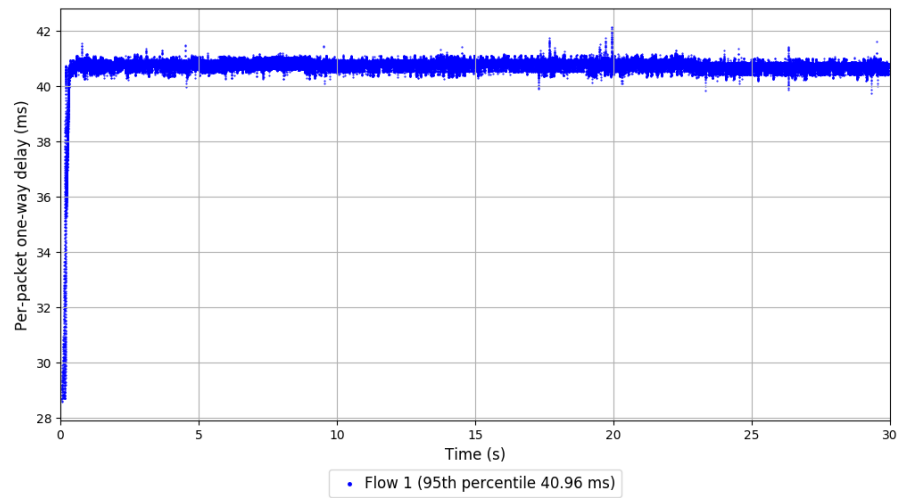
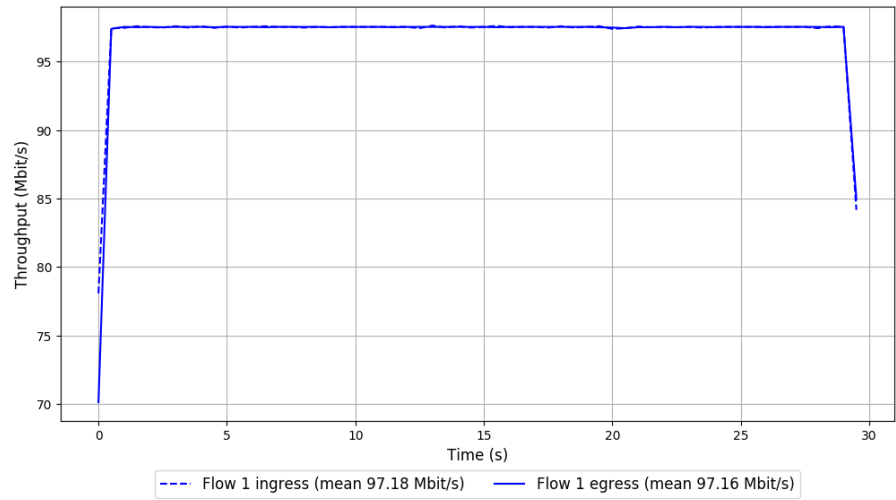


Run 6: Statistics of TCP Cubic

Start at: 2018-01-01 23:02:09
End at: 2018-01-01 23:02:39
Local clock offset: -6.825 ms
Remote clock offset: -14.322 ms

Below is generated by plot.py at 2018-01-02 03:28:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: 40.957 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: 40.957 ms
Loss rate: 0.12%

Run 6: Report of TCP Cubic — Data Link

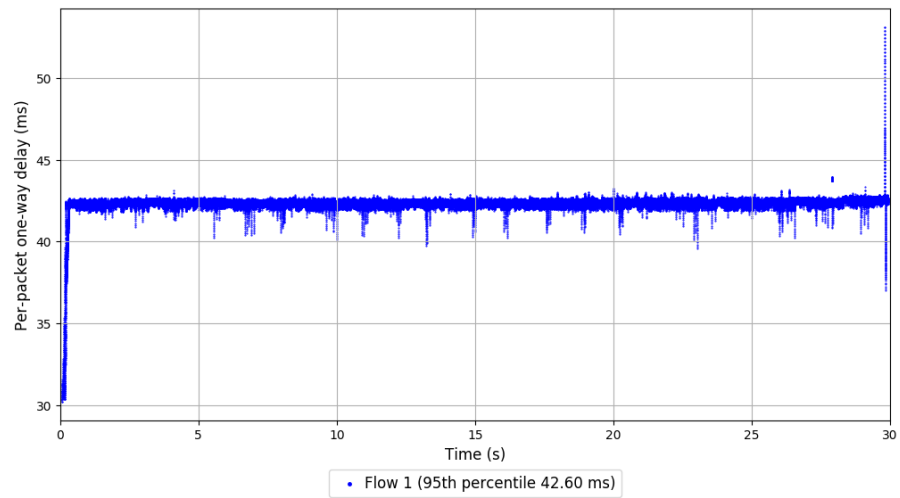
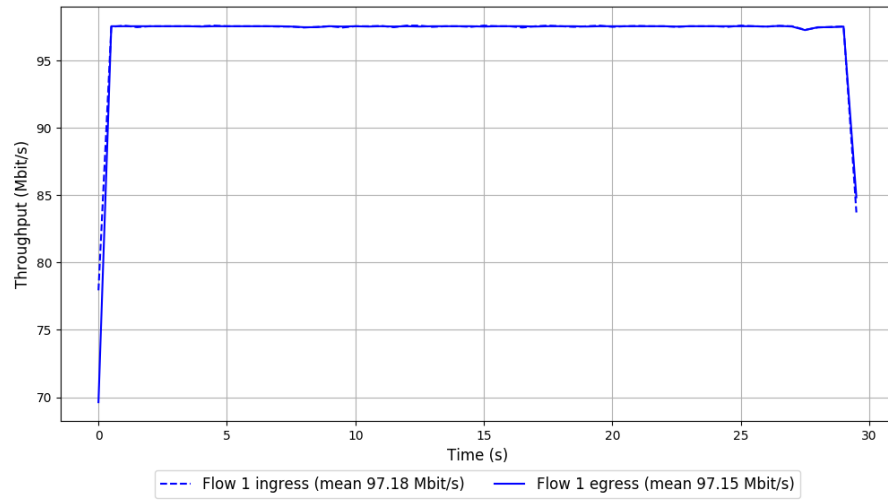


Run 7: Statistics of TCP Cubic

Start at: 2018-01-01 23:19:25
End at: 2018-01-01 23:19:55
Local clock offset: -6.268 ms
Remote clock offset: -14.662 ms

Below is generated by plot.py at 2018-01-02 03:29:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 42.604 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 42.604 ms
Loss rate: 0.12%

Run 7: Report of TCP Cubic — Data Link

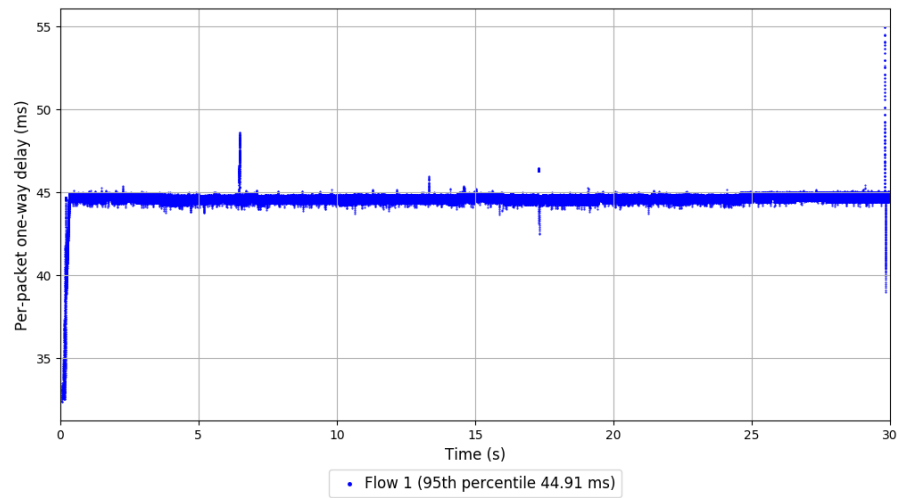
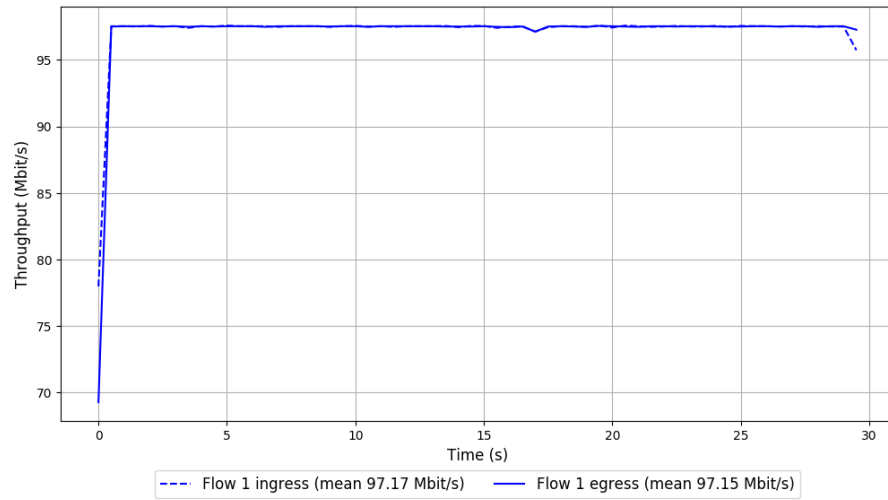


Run 8: Statistics of TCP Cubic

Start at: 2018-01-01 23:36:37
End at: 2018-01-01 23:37:07
Local clock offset: -4.638 ms
Remote clock offset: -13.656 ms

Below is generated by plot.py at 2018-01-02 03:29:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 44.914 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 44.914 ms
Loss rate: 0.12%

Run 8: Report of TCP Cubic — Data Link

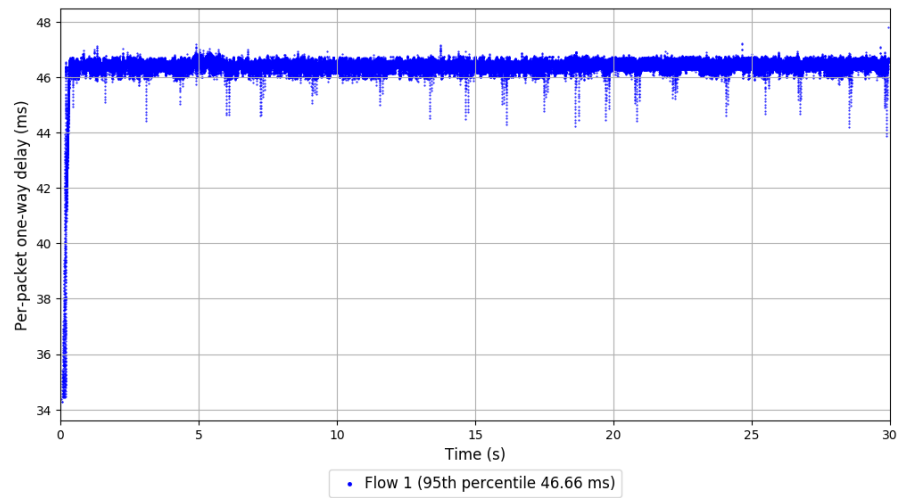
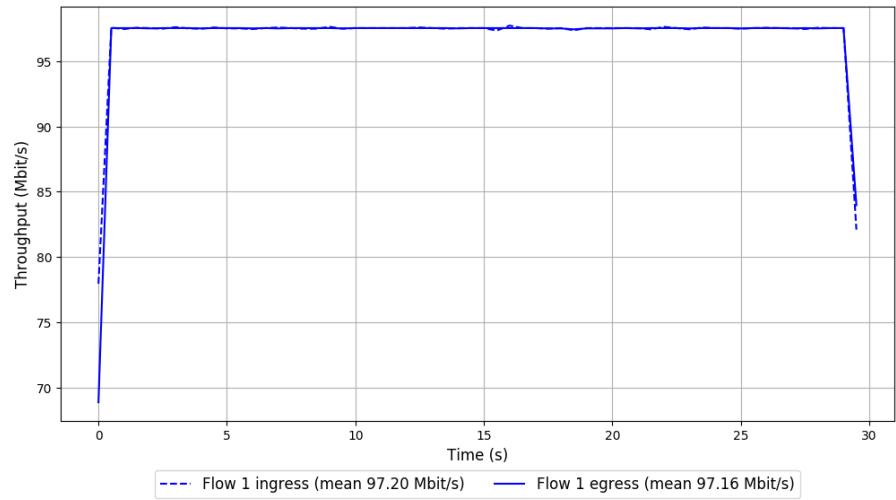


Run 9: Statistics of TCP Cubic

Start at: 2018-01-01 23:53:56
End at: 2018-01-01 23:54:26
Local clock offset: -3.66 ms
Remote clock offset: -12.77 ms

Below is generated by plot.py at 2018-01-02 03:29:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: 46.656 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: 46.656 ms
Loss rate: 0.12%

Run 9: Report of TCP Cubic — Data Link

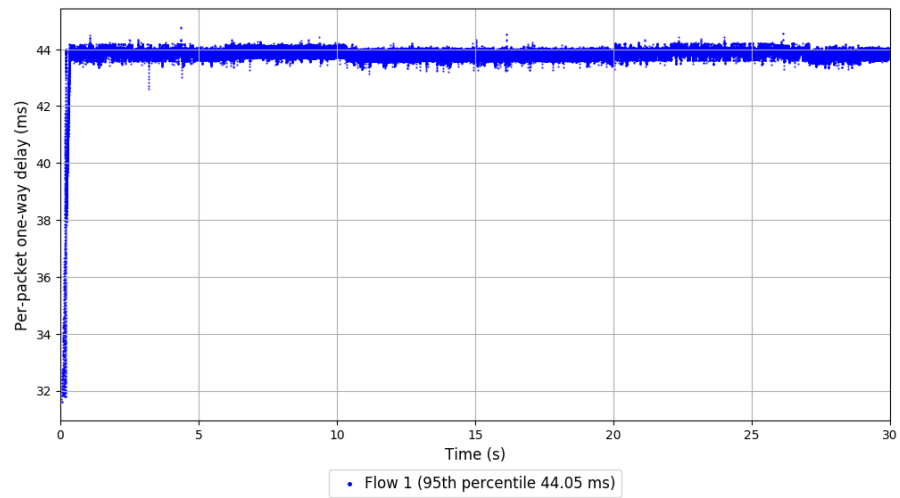
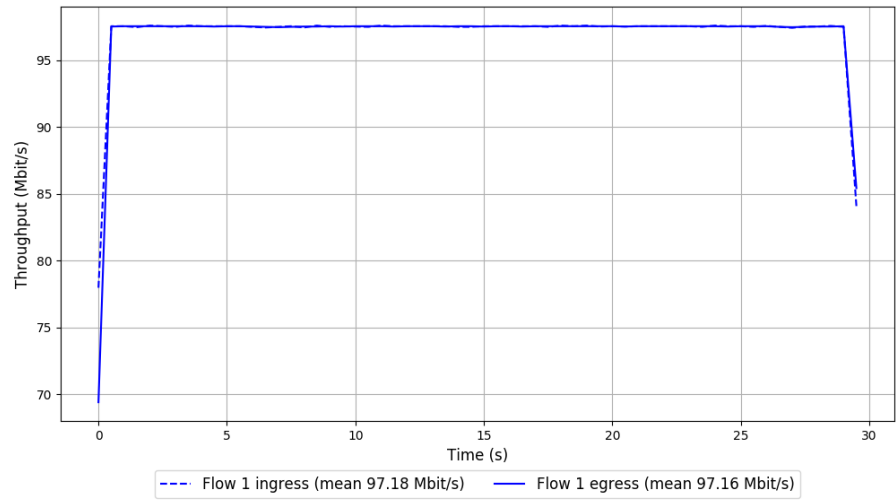


Run 10: Statistics of TCP Cubic

Start at: 2018-01-02 00:11:13
End at: 2018-01-02 00:11:43
Local clock offset: -7.369 ms
Remote clock offset: -11.377 ms

Below is generated by plot.py at 2018-01-02 03:29:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: 44.051 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: 44.051 ms
Loss rate: 0.12%

Run 10: Report of TCP Cubic — Data Link

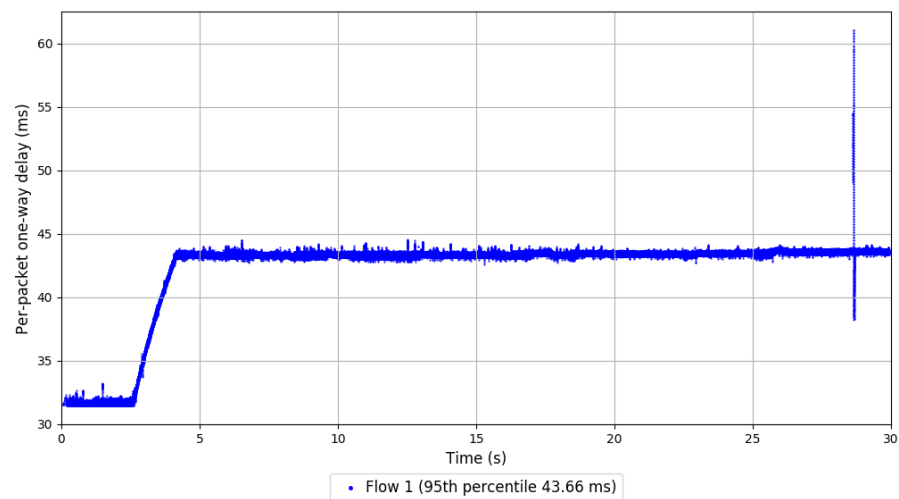
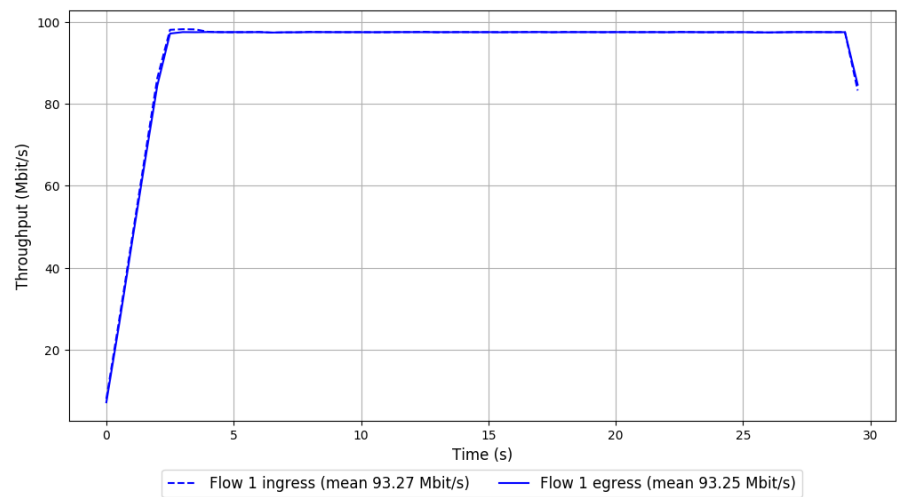


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-01 21:38:39
End at: 2018-01-01 21:39:09
Local clock offset: -2.317 ms
Remote clock offset: -17.903 ms

# Below is generated by plot.py at 2018-01-02 03:29:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.25 Mbit/s
95th percentile per-packet one-way delay: 43.655 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 93.25 Mbit/s
95th percentile per-packet one-way delay: 43.655 ms
Loss rate: 0.13%
```


Run 1: Report of LEDBAT — Data Link

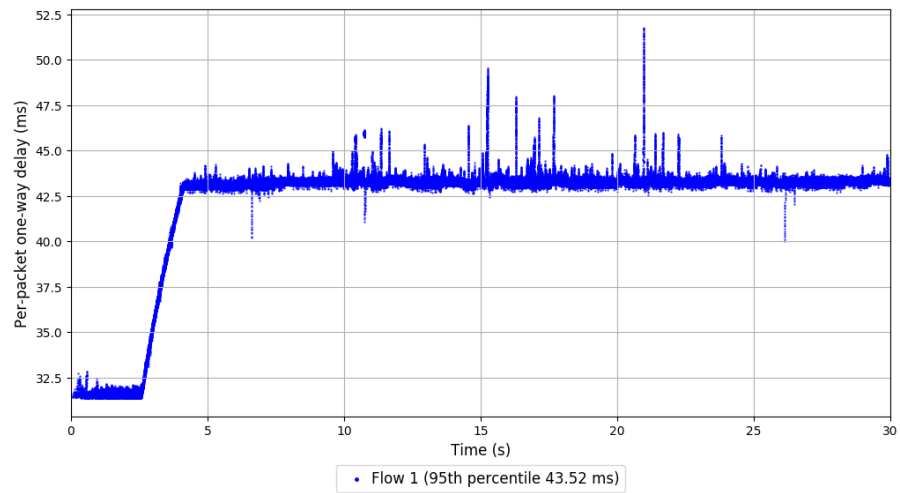
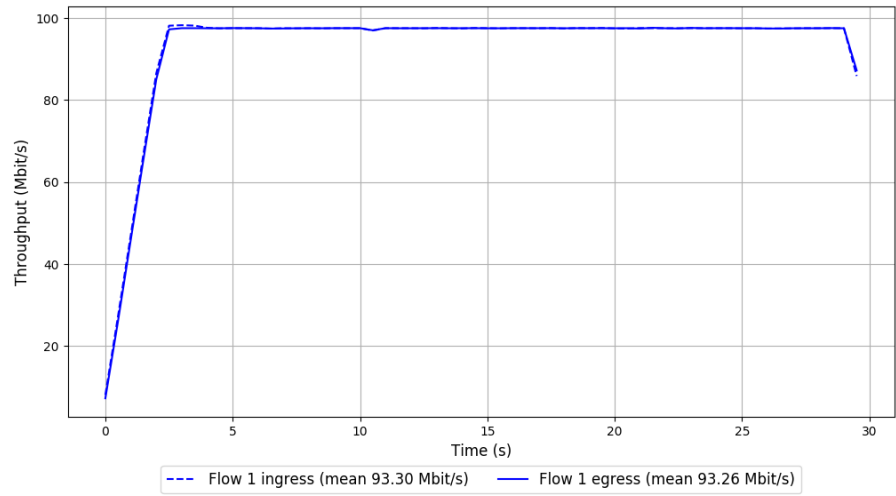


Run 2: Statistics of LEDBAT

Start at: 2018-01-01 21:56:27
End at: 2018-01-01 21:56:57
Local clock offset: -4.657 ms
Remote clock offset: -20.134 ms

Below is generated by plot.py at 2018-01-02 03:29:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.26 Mbit/s
95th percentile per-packet one-way delay: 43.523 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 93.26 Mbit/s
95th percentile per-packet one-way delay: 43.523 ms
Loss rate: 0.13%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

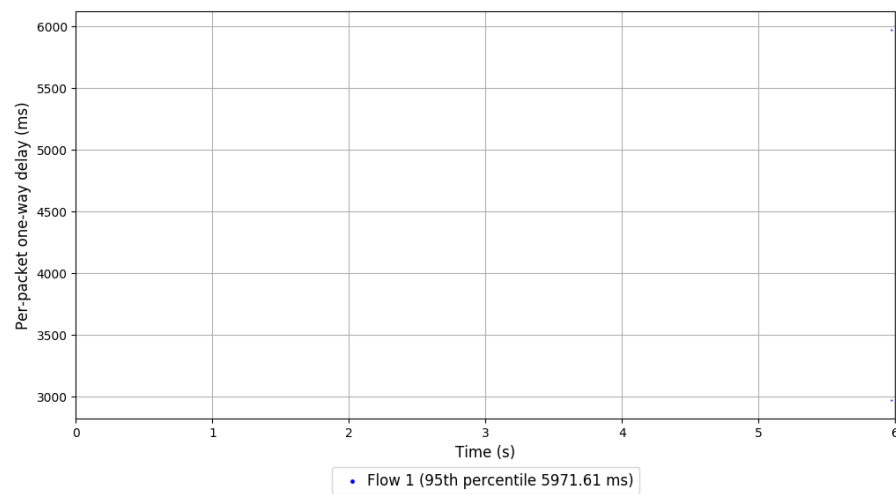
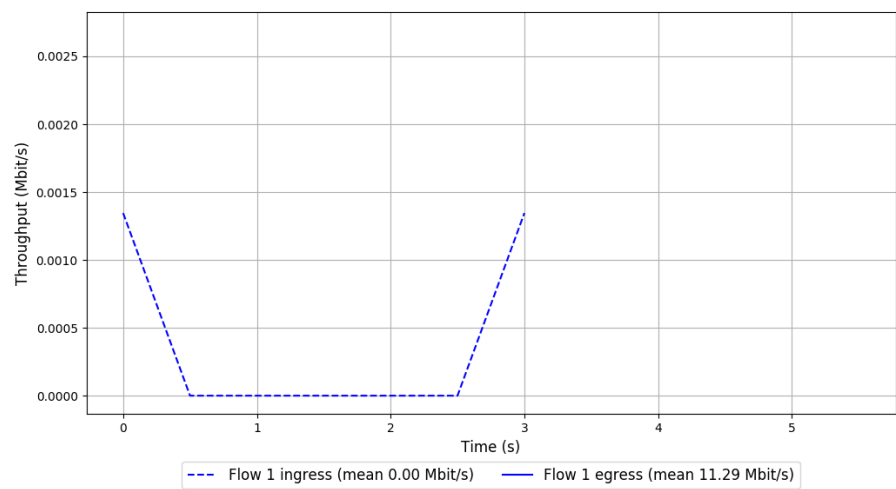
Start at: 2018-01-01 22:13:53

End at: 2018-01-01 22:14:23

Local clock offset: -4.398 ms

Remote clock offset: -20.85 ms

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

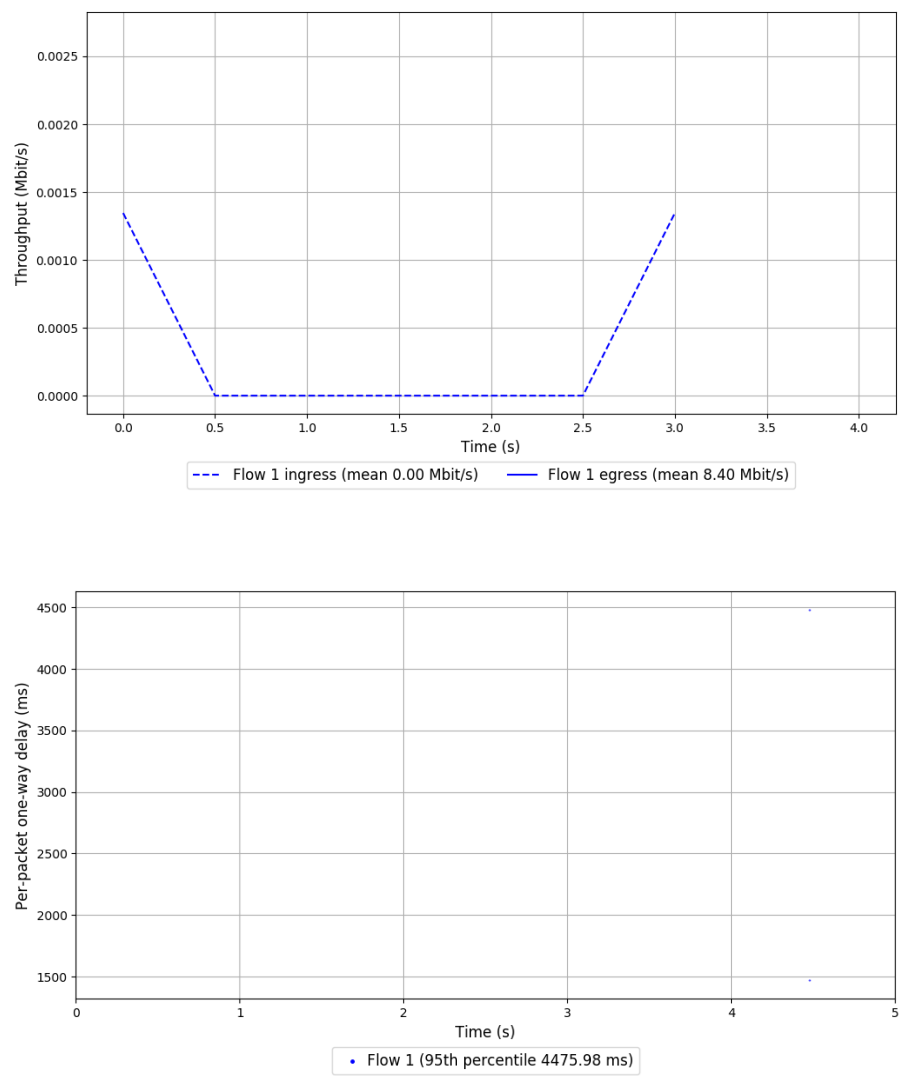
Start at: 2018-01-01 22:31:06

End at: 2018-01-01 22:31:36

Local clock offset: -1.199 ms

Remote clock offset: -17.945 ms

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

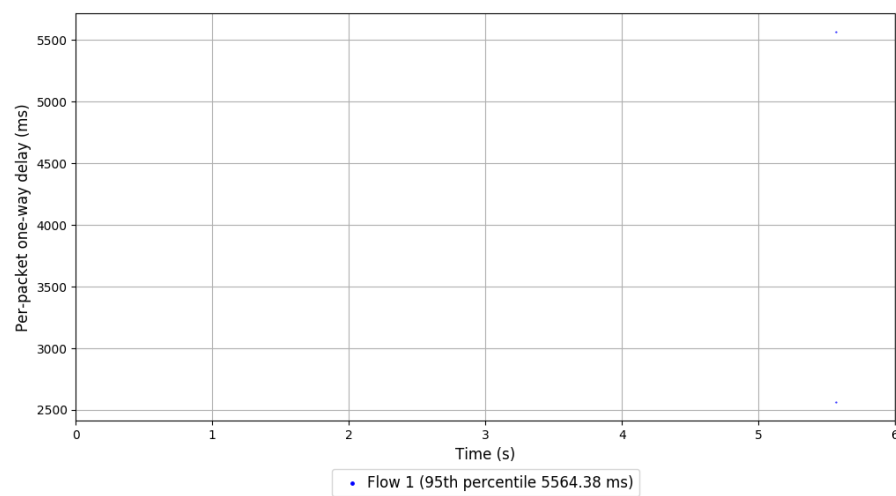
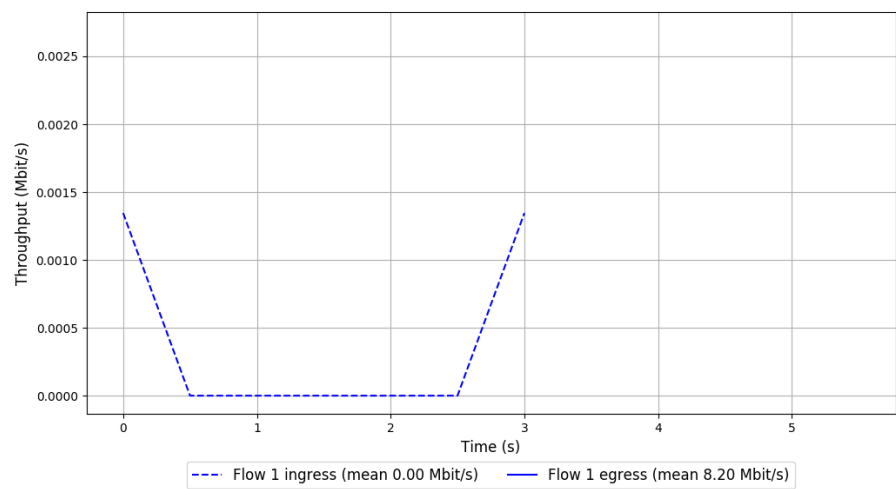
Start at: 2018-01-01 22:48:19

End at: 2018-01-01 22:48:49

Local clock offset: -1.488 ms

Remote clock offset: -16.82 ms

Run 5: Report of LEDBAT — Data Link

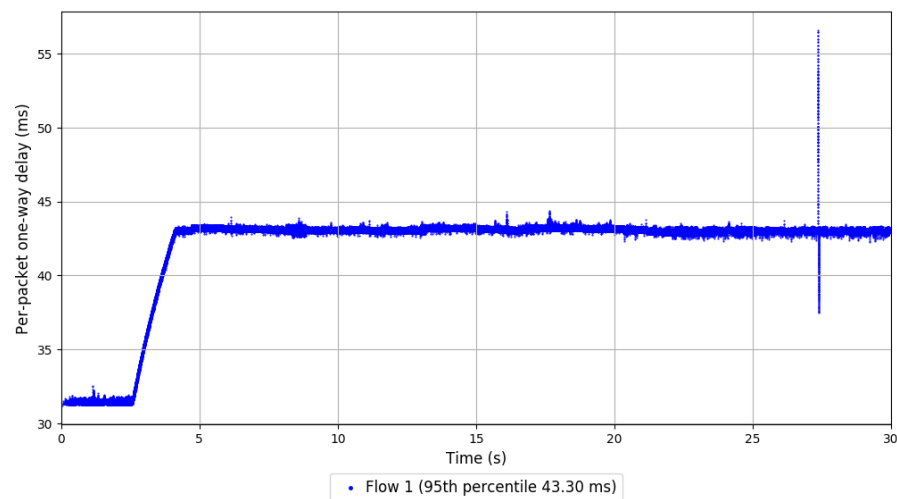
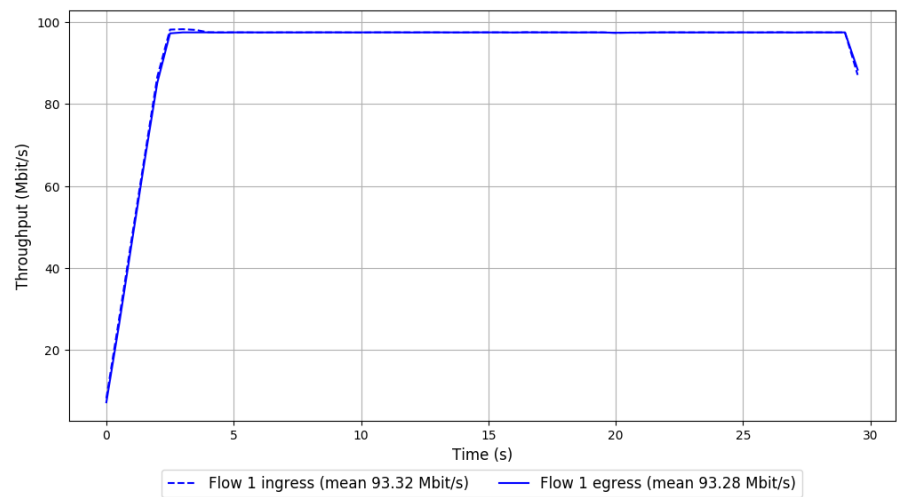


Run 6: Statistics of LEDBAT

Start at: 2018-01-01 23:05:32
End at: 2018-01-01 23:06:02
Local clock offset: -6.17 ms
Remote clock offset: -16.237 ms

Below is generated by plot.py at 2018-01-02 03:29:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.28 Mbit/s
95th percentile per-packet one-way delay: 43.301 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 93.28 Mbit/s
95th percentile per-packet one-way delay: 43.301 ms
Loss rate: 0.13%

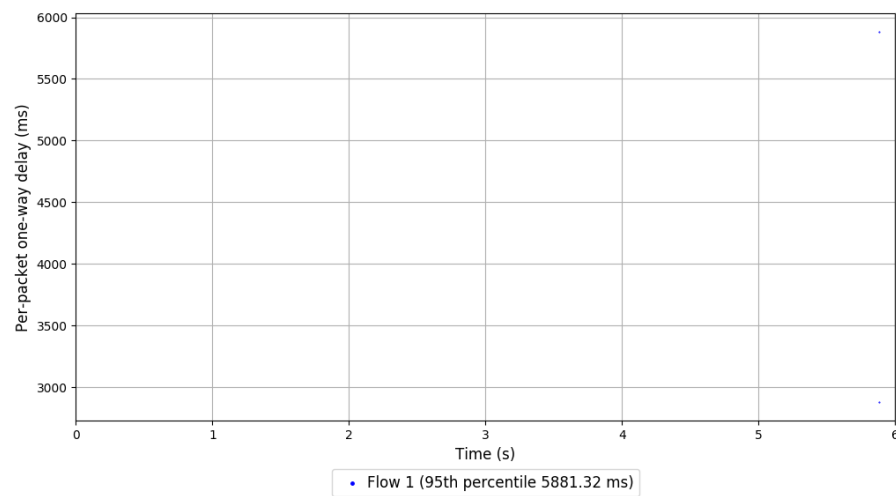
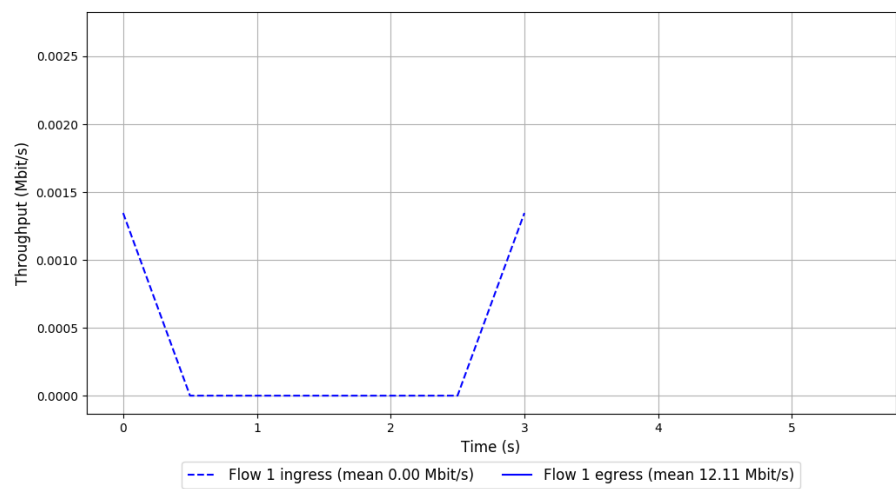
Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-01 23:22:48
End at: 2018-01-01 23:23:18
Local clock offset: -10.585 ms
Remote clock offset: -19.145 ms

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

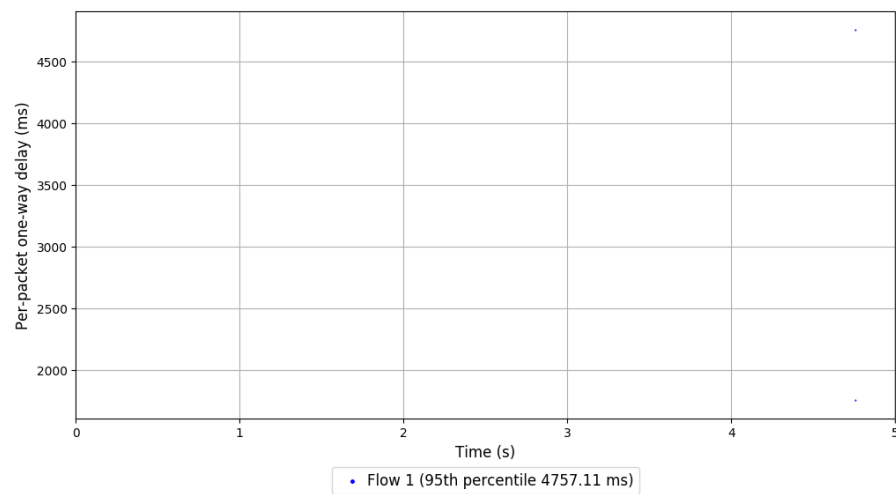
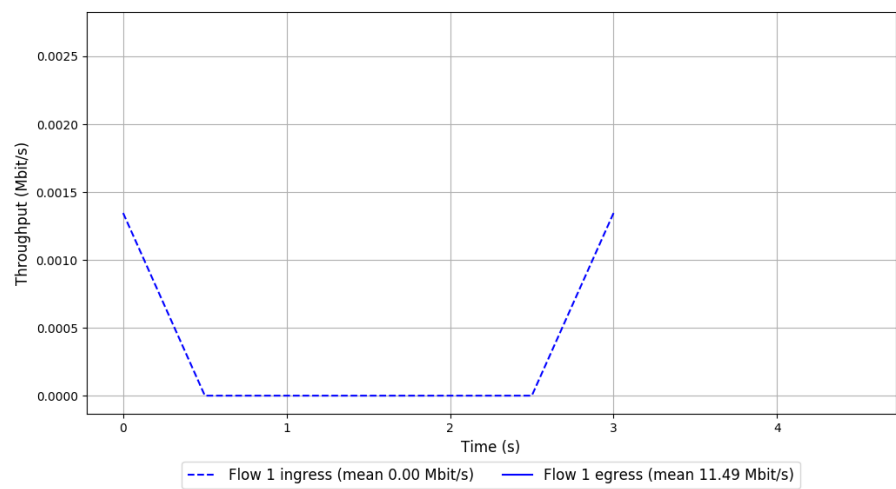
Start at: 2018-01-01 23:40:02

End at: 2018-01-01 23:40:32

Local clock offset: -5.591 ms

Remote clock offset: -10.479 ms

Run 8: Report of LEDBAT — Data Link

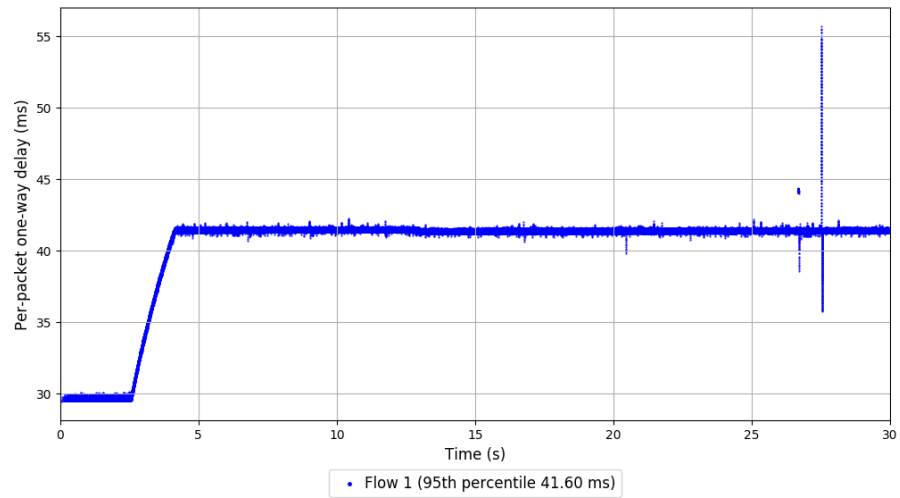
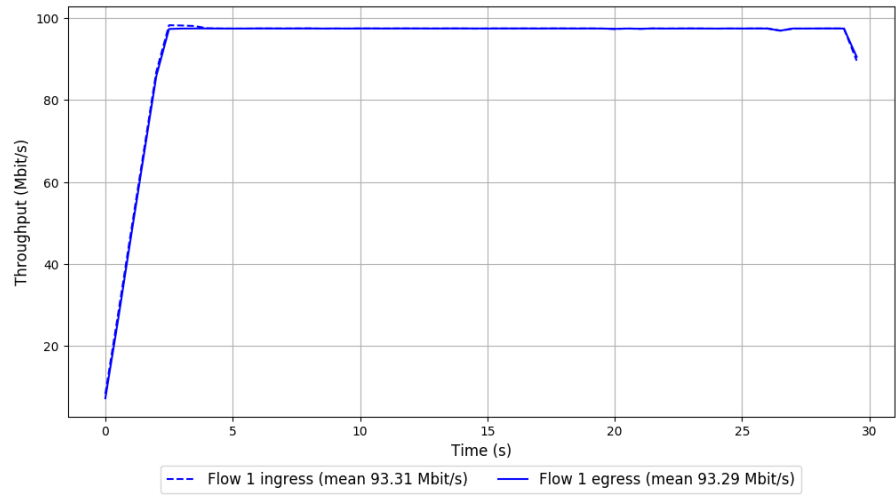


Run 9: Statistics of LEDBAT

Start at: 2018-01-01 23:57:19
End at: 2018-01-01 23:57:49
Local clock offset: -8.116 ms
Remote clock offset: -11.71 ms

Below is generated by plot.py at 2018-01-02 03:29:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.29 Mbit/s
95th percentile per-packet one-way delay: 41.604 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 93.29 Mbit/s
95th percentile per-packet one-way delay: 41.604 ms
Loss rate: 0.13%

Run 9: Report of LEDBAT — Data Link

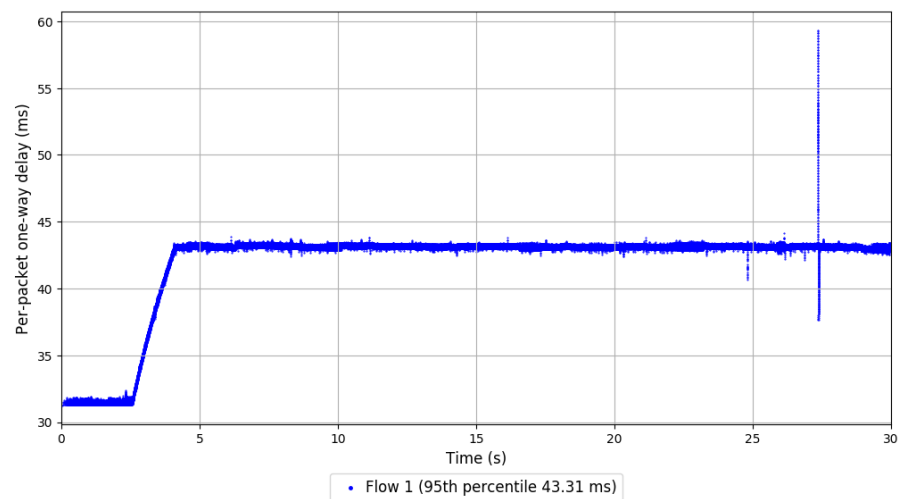
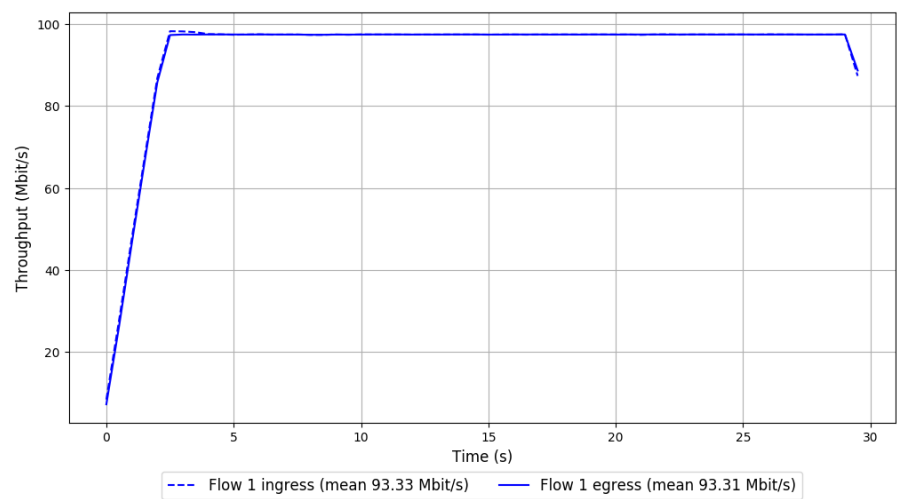


Run 10: Statistics of LEDBAT

Start at: 2018-01-02 00:14:36
End at: 2018-01-02 00:15:06
Local clock offset: -6.637 ms
Remote clock offset: -9.896 ms

Below is generated by plot.py at 2018-01-02 03:30:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.31 Mbit/s
95th percentile per-packet one-way delay: 43.312 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 93.31 Mbit/s
95th percentile per-packet one-way delay: 43.312 ms
Loss rate: 0.13%

Run 10: Report of LEDBAT — Data Link

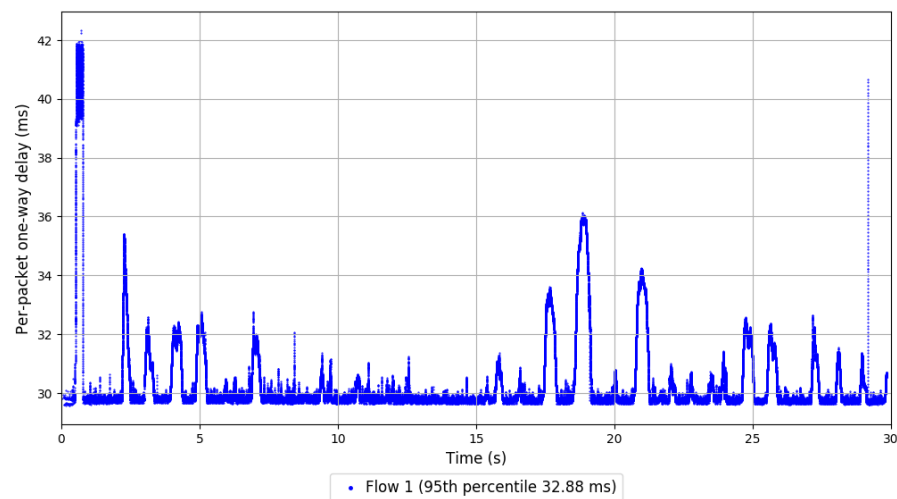
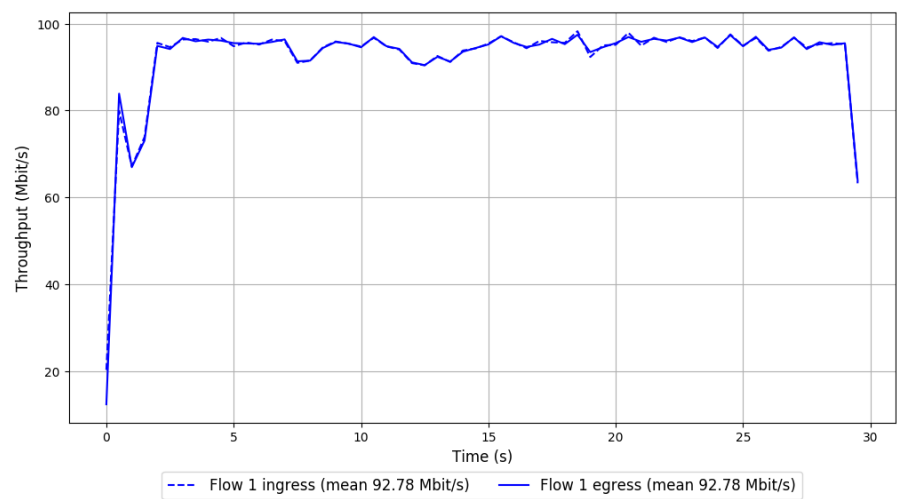


```
Run 1: Statistics of PCC

Start at: 2018-01-01 21:45:53
End at: 2018-01-01 21:46:23
Local clock offset: -5.126 ms
Remote clock offset: -18.003 ms

# Below is generated by plot.py at 2018-01-02 03:30:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.78 Mbit/s
95th percentile per-packet one-way delay: 32.883 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 92.78 Mbit/s
95th percentile per-packet one-way delay: 32.883 ms
Loss rate: 0.09%
```

Run 1: Report of PCC — Data Link

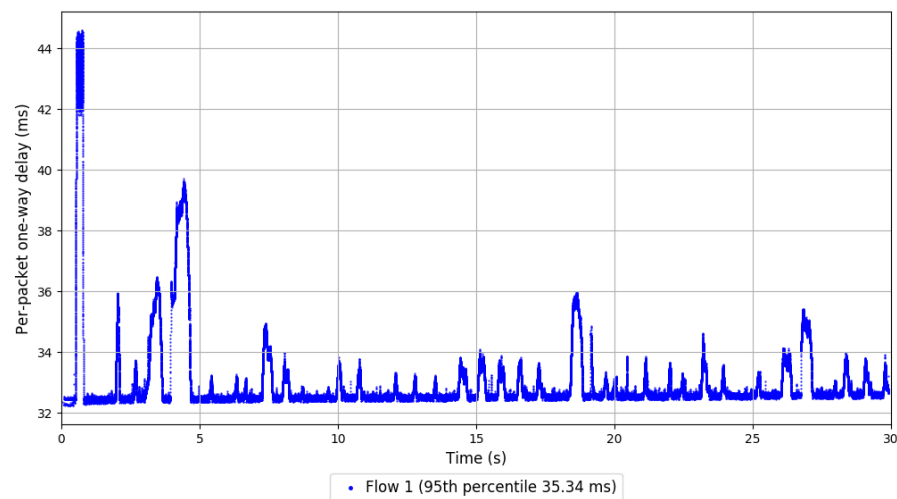
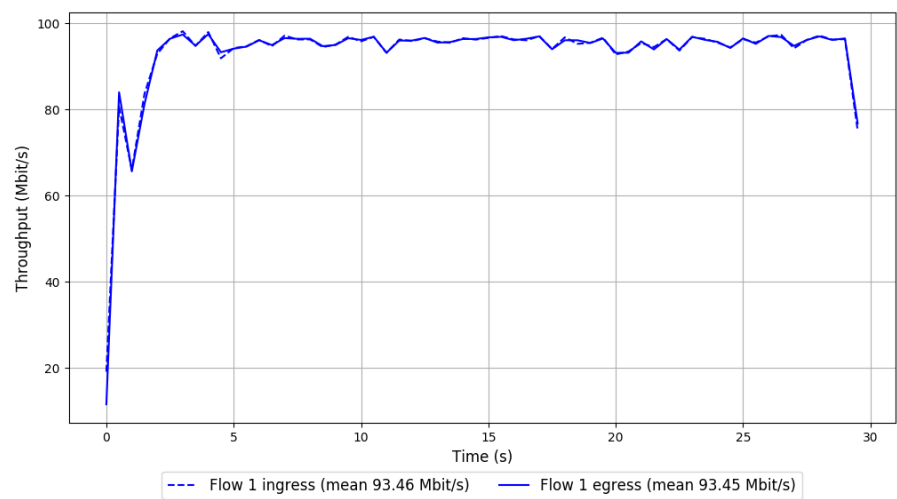


Run 2: Statistics of PCC

Start at: 2018-01-01 22:03:34
End at: 2018-01-01 22:04:04
Local clock offset: -3.813 ms
Remote clock offset: -18.738 ms

Below is generated by plot.py at 2018-01-02 03:30:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.45 Mbit/s
95th percentile per-packet one-way delay: 35.338 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 93.45 Mbit/s
95th percentile per-packet one-way delay: 35.338 ms
Loss rate: 0.08%

Run 2: Report of PCC — Data Link

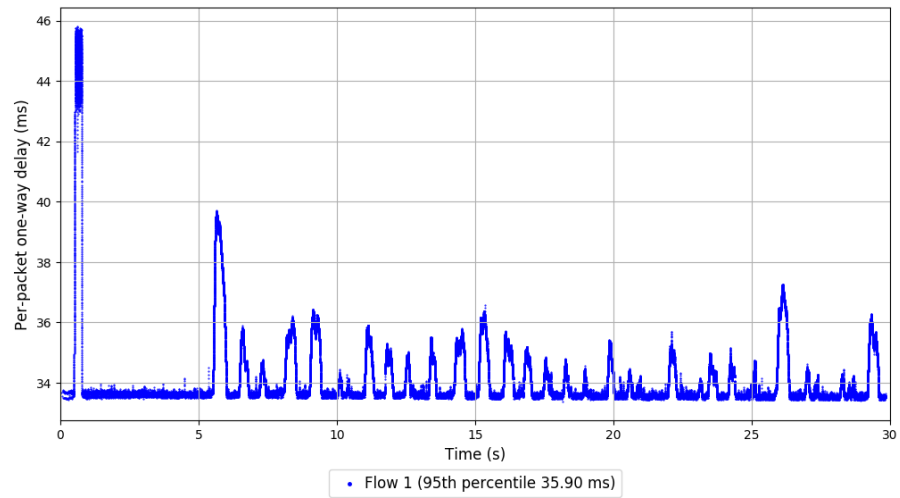
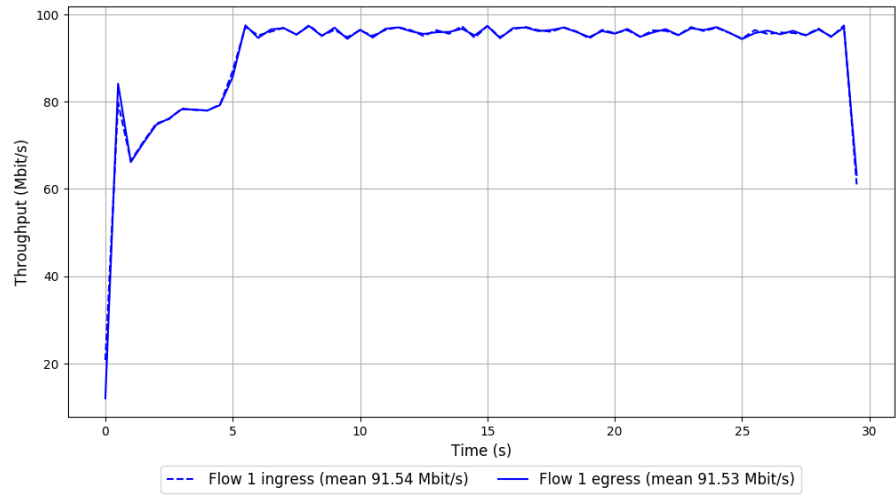


Run 3: Statistics of PCC

Start at: 2018-01-01 22:20:54
End at: 2018-01-01 22:21:24
Local clock offset: -2.626 ms
Remote clock offset: -19.232 ms

Below is generated by plot.py at 2018-01-02 03:30:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.53 Mbit/s
95th percentile per-packet one-way delay: 35.903 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 91.53 Mbit/s
95th percentile per-packet one-way delay: 35.903 ms
Loss rate: 0.09%

Run 3: Report of PCC — Data Link

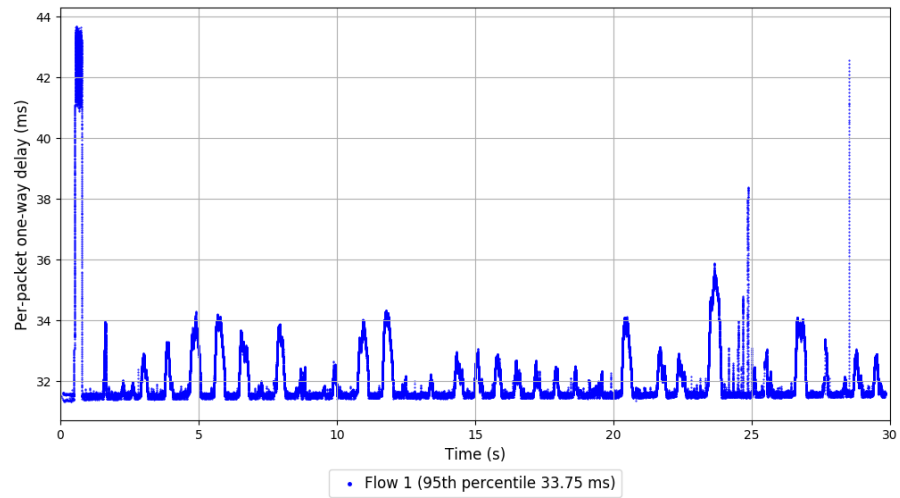
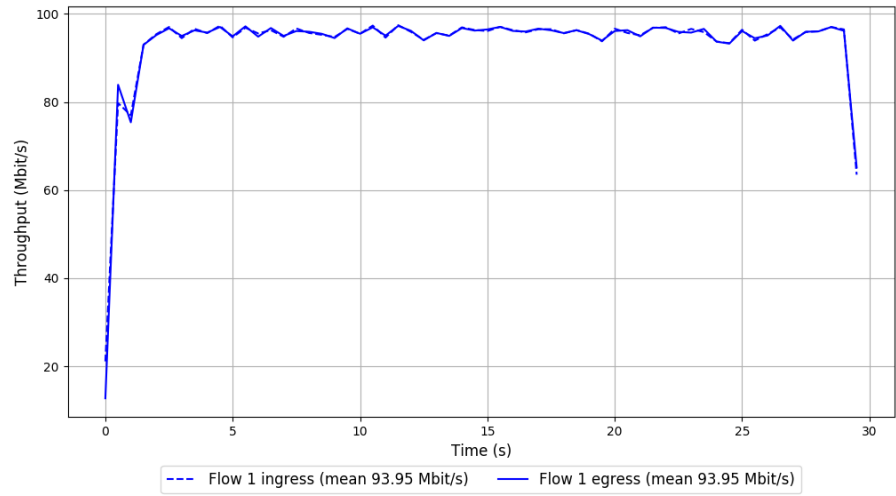


Run 4: Statistics of PCC

Start at: 2018-01-01 22:38:06
End at: 2018-01-01 22:38:36
Local clock offset: -3.324 ms
Remote clock offset: -18.493 ms

Below is generated by plot.py at 2018-01-02 03:30:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.95 Mbit/s
95th percentile per-packet one-way delay: 33.748 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 93.95 Mbit/s
95th percentile per-packet one-way delay: 33.748 ms
Loss rate: 0.08%

Run 4: Report of PCC — Data Link

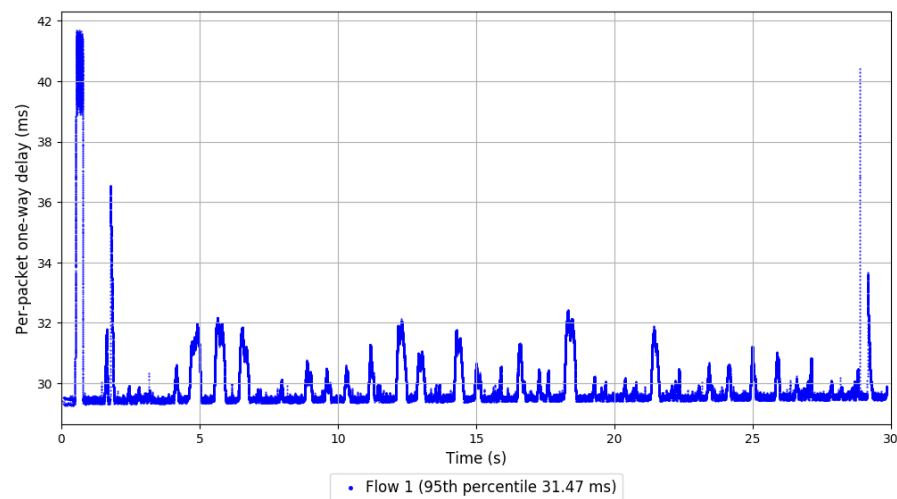
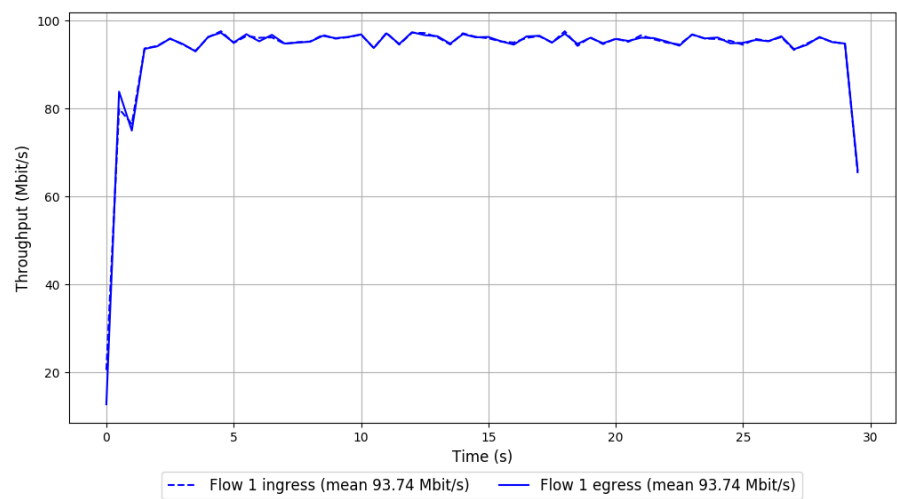


Run 5: Statistics of PCC

Start at: 2018-01-01 22:55:20
End at: 2018-01-01 22:55:50
Local clock offset: -6.71 ms
Remote clock offset: -15.829 ms

Below is generated by plot.py at 2018-01-02 03:30:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.74 Mbit/s
95th percentile per-packet one-way delay: 31.474 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 93.74 Mbit/s
95th percentile per-packet one-way delay: 31.474 ms
Loss rate: 0.09%

Run 5: Report of PCC — Data Link

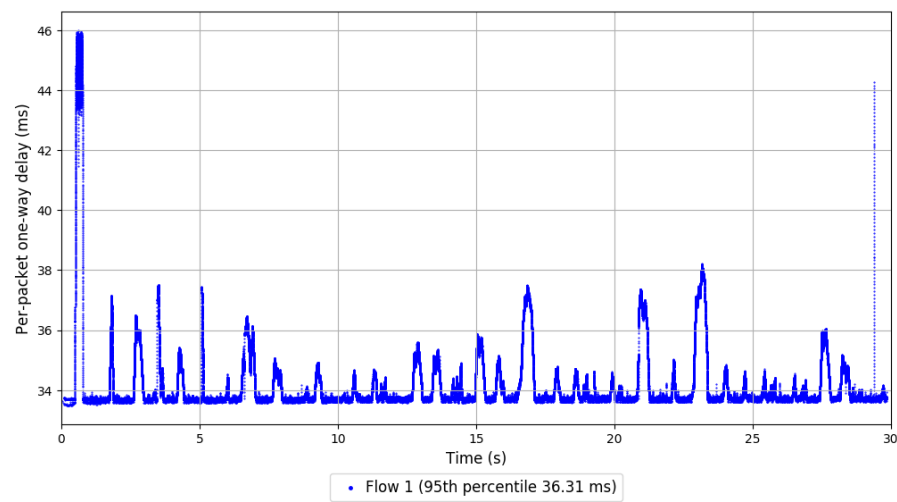
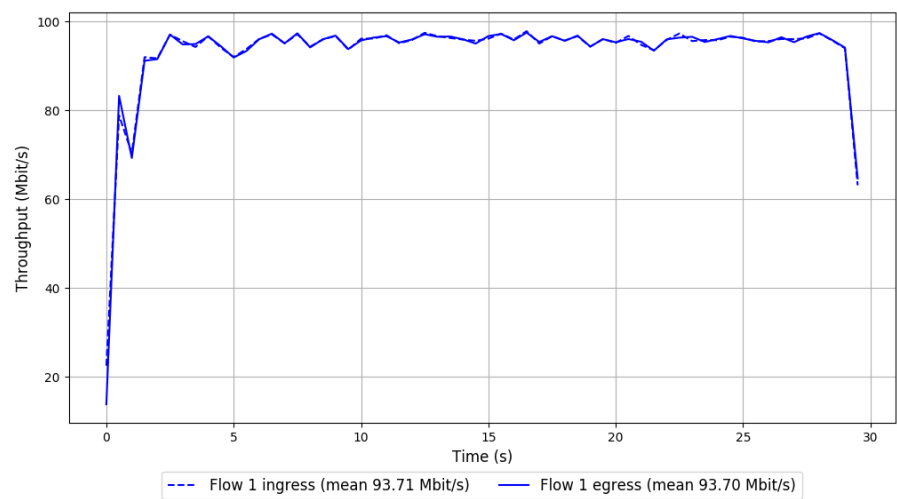


Run 6: Statistics of PCC

Start at: 2018-01-01 23:12:35
End at: 2018-01-01 23:13:05
Local clock offset: -4.26 ms
Remote clock offset: -16.599 ms

Below is generated by plot.py at 2018-01-02 03:31:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.70 Mbit/s
95th percentile per-packet one-way delay: 36.306 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 93.70 Mbit/s
95th percentile per-packet one-way delay: 36.306 ms
Loss rate: 0.08%

Run 6: Report of PCC — Data Link

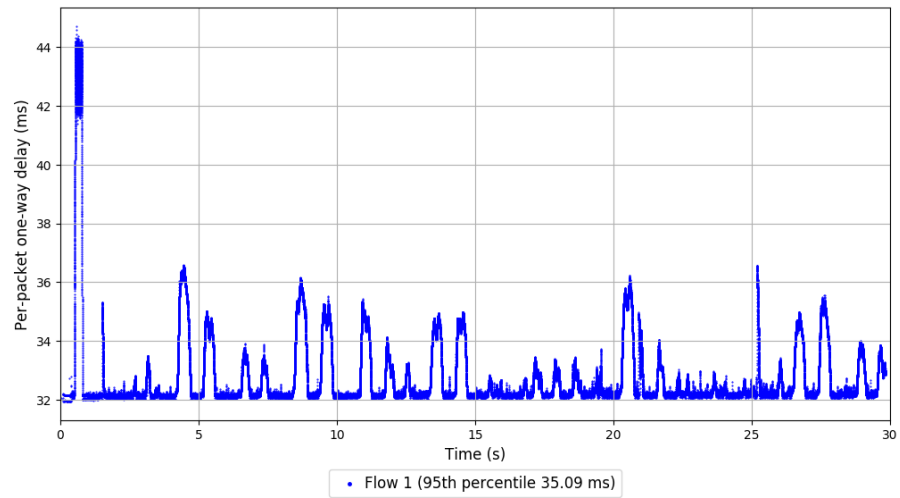
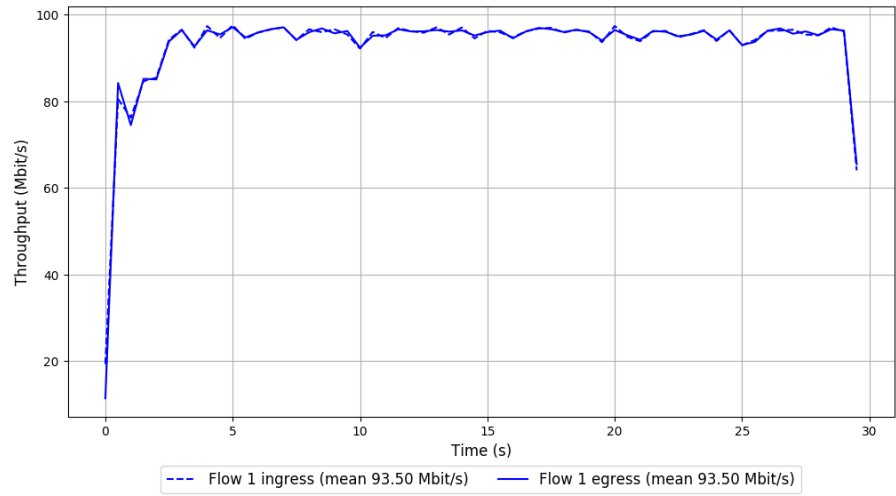


Run 7: Statistics of PCC

Start at: 2018-01-01 23:29:46
End at: 2018-01-01 23:30:16
Local clock offset: -3.599 ms
Remote clock offset: -12.949 ms

Below is generated by plot.py at 2018-01-02 03:31:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.50 Mbit/s
95th percentile per-packet one-way delay: 35.090 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 93.50 Mbit/s
95th percentile per-packet one-way delay: 35.090 ms
Loss rate: 0.09%

Run 7: Report of PCC — Data Link

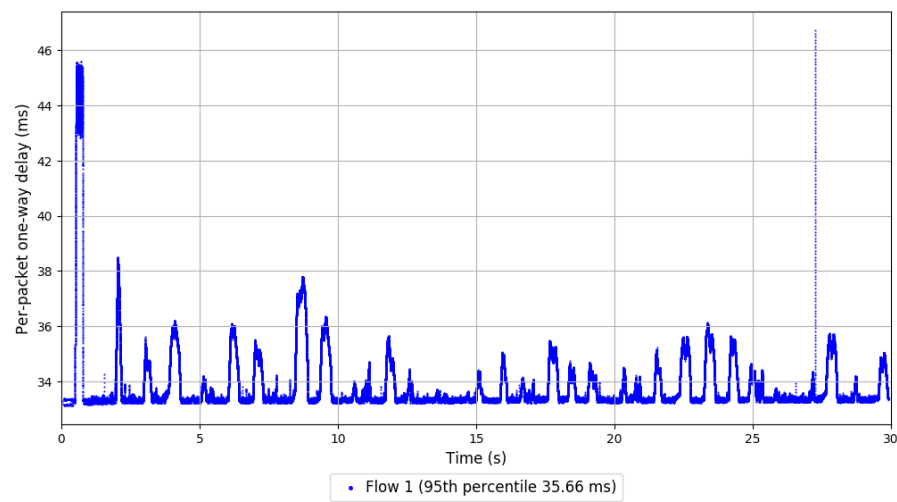
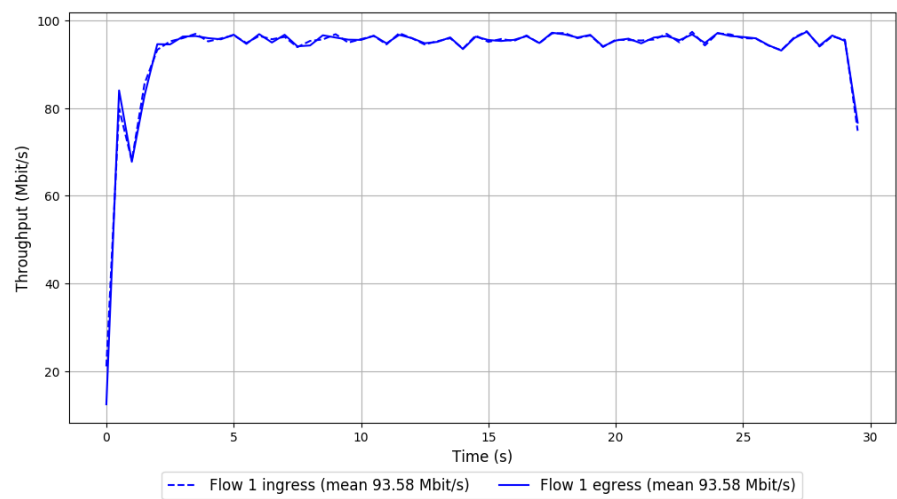


Run 8: Statistics of PCC

Start at: 2018-01-01 23:47:04
End at: 2018-01-01 23:47:34
Local clock offset: -5.077 ms
Remote clock offset: -13.682 ms

Below is generated by plot.py at 2018-01-02 03:32:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.58 Mbit/s
95th percentile per-packet one-way delay: 35.660 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 93.58 Mbit/s
95th percentile per-packet one-way delay: 35.660 ms
Loss rate: 0.08%

Run 8: Report of PCC — Data Link

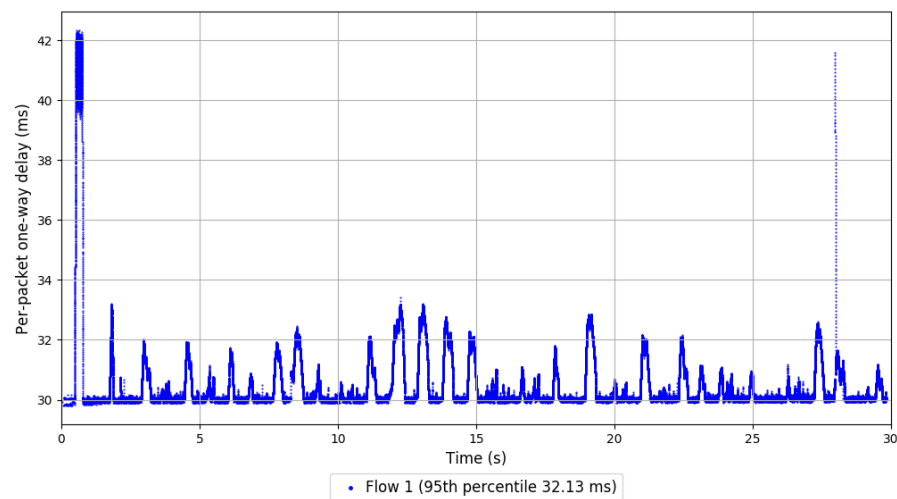
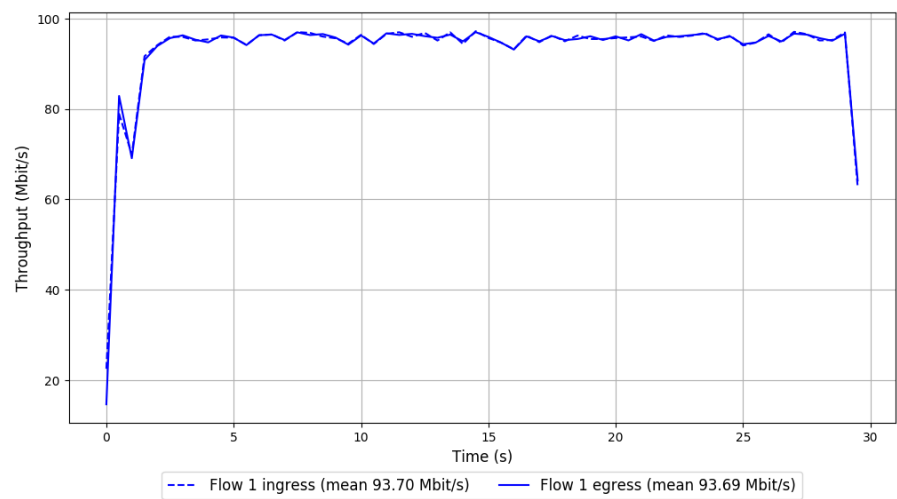


Run 9: Statistics of PCC

Start at: 2018-01-02 00:04:24
End at: 2018-01-02 00:04:54
Local clock offset: -9.026 ms
Remote clock offset: -11.796 ms

Below is generated by plot.py at 2018-01-02 03:32:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 32.130 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 32.130 ms
Loss rate: 0.08%

Run 9: Report of PCC — Data Link

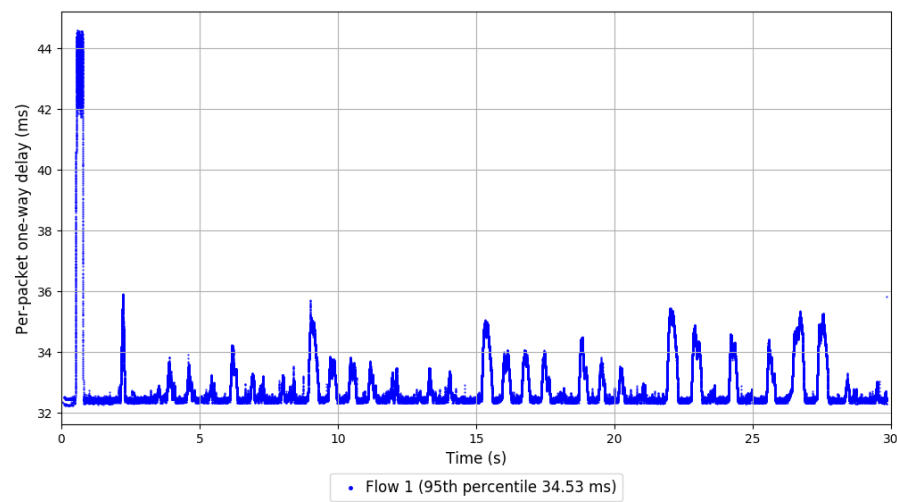
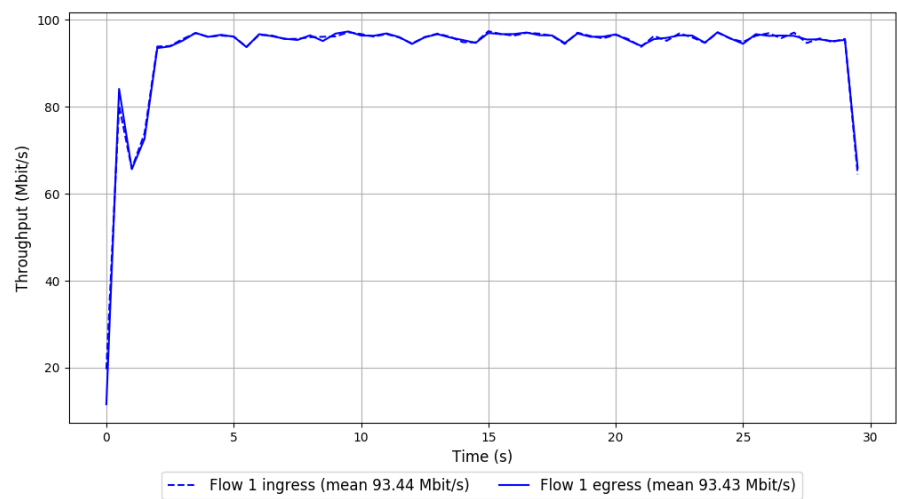


Run 10: Statistics of PCC

Start at: 2018-01-02 00:21:43
End at: 2018-01-02 00:22:13
Local clock offset: -9.633 ms
Remote clock offset: -13.384 ms

Below is generated by plot.py at 2018-01-02 03:32:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.43 Mbit/s
95th percentile per-packet one-way delay: 34.535 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 93.43 Mbit/s
95th percentile per-packet one-way delay: 34.535 ms
Loss rate: 0.09%

Run 10: Report of PCC — Data Link

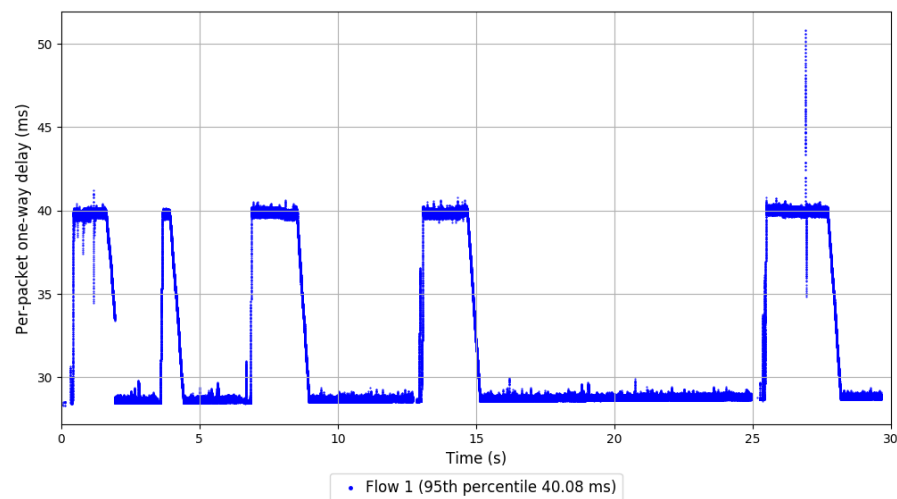
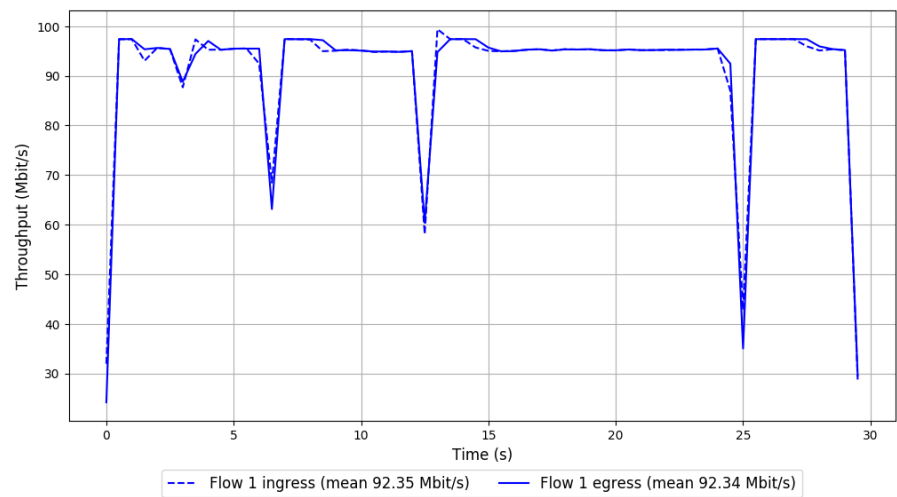


Run 1: Statistics of QUIC Cubic

Start at: 2018-01-01 21:37:29
End at: 2018-01-01 21:37:59
Local clock offset: -6.642 ms
Remote clock offset: -19.864 ms

Below is generated by plot.py at 2018-01-02 03:32:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.34 Mbit/s
95th percentile per-packet one-way delay: 40.082 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 92.34 Mbit/s
95th percentile per-packet one-way delay: 40.082 ms
Loss rate: 0.08%

Run 1: Report of QUIC Cubic — Data Link

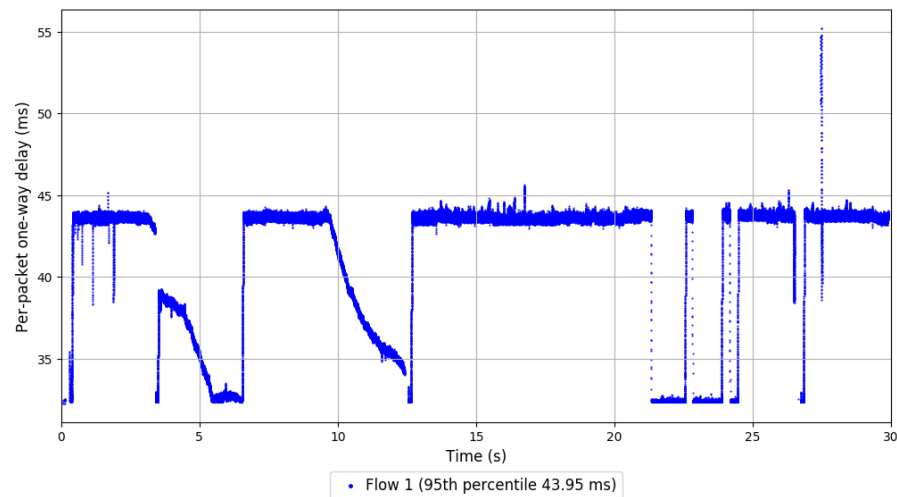
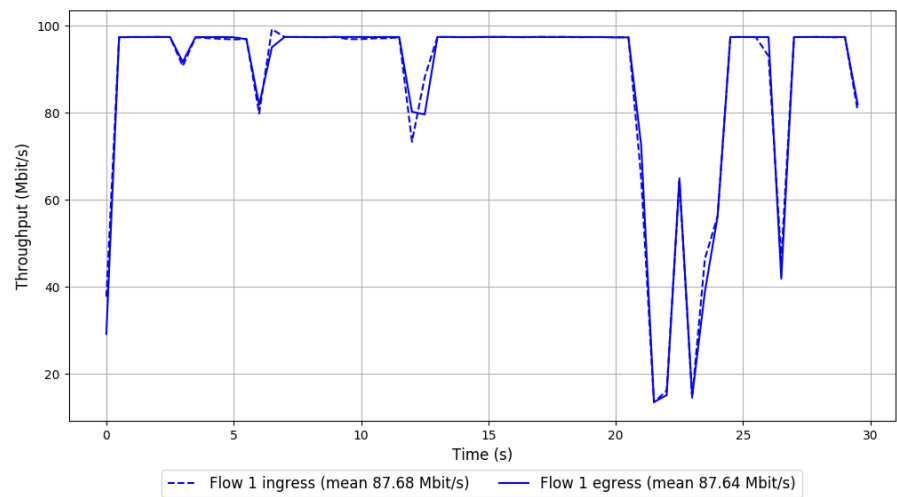


Run 2: Statistics of QUIC Cubic

Start at: 2018-01-01 21:55:14
End at: 2018-01-01 21:55:44
Local clock offset: -2.386 ms
Remote clock offset: -18.885 ms

Below is generated by plot.py at 2018-01-02 03:32:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.64 Mbit/s
95th percentile per-packet one-way delay: 43.954 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 87.64 Mbit/s
95th percentile per-packet one-way delay: 43.954 ms
Loss rate: 0.13%

Run 2: Report of QUIC Cubic — Data Link

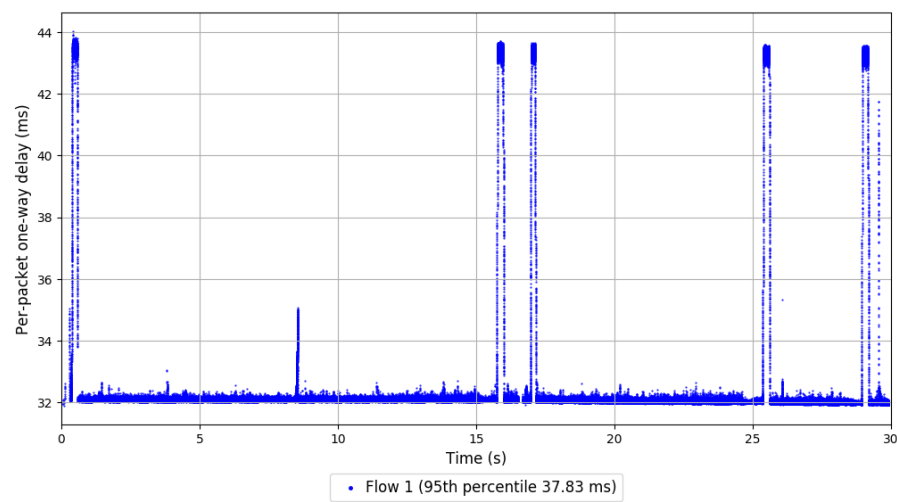
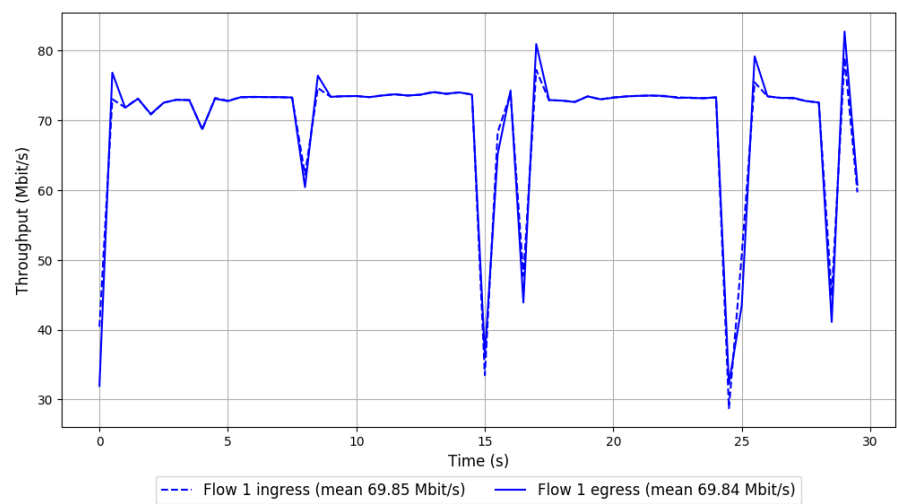


Run 3: Statistics of QUIC Cubic

Start at: 2018-01-01 22:12:44
End at: 2018-01-01 22:13:14
Local clock offset: -7.49 ms
Remote clock offset: -20.521 ms

Below is generated by plot.py at 2018-01-02 03:32:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 69.84 Mbit/s
95th percentile per-packet one-way delay: 37.831 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 69.84 Mbit/s
95th percentile per-packet one-way delay: 37.831 ms
Loss rate: 0.09%

Run 3: Report of QUIC Cubic — Data Link

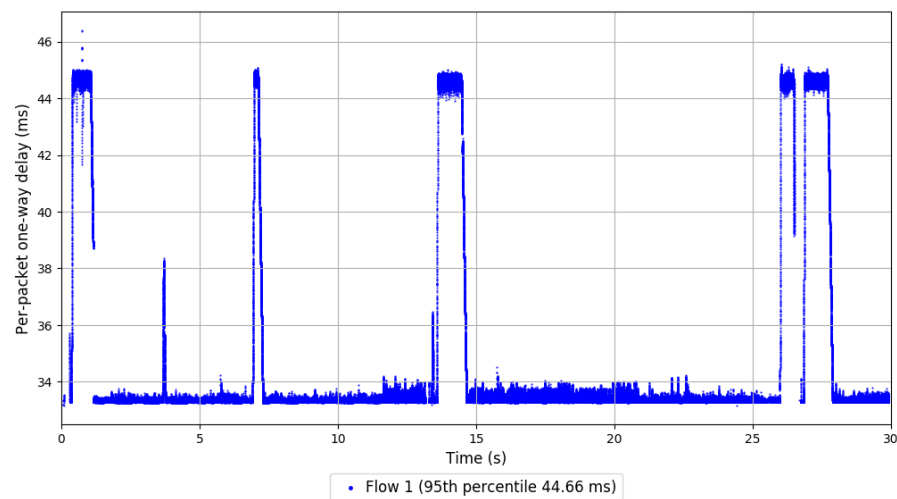
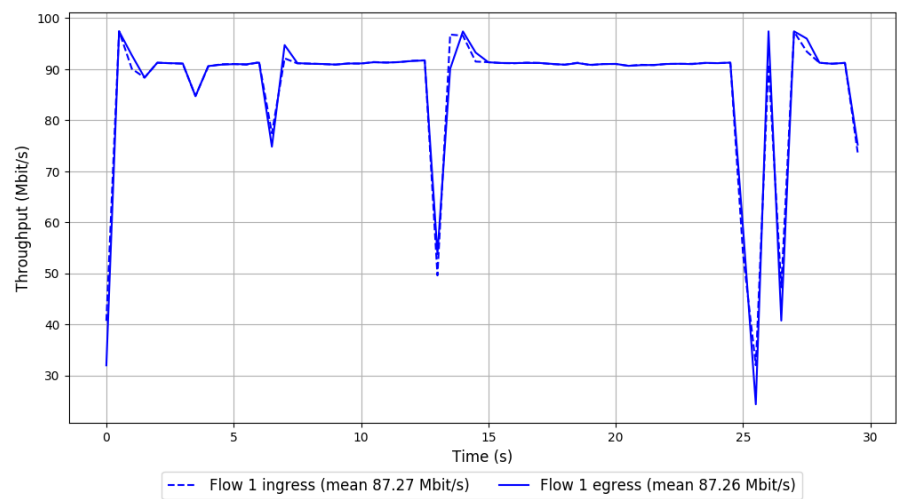


Run 4: Statistics of QUIC Cubic

Start at: 2018-01-01 22:29:56
End at: 2018-01-01 22:30:27
Local clock offset: -1.34 ms
Remote clock offset: -18.804 ms

Below is generated by plot.py at 2018-01-02 03:32:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.26 Mbit/s
95th percentile per-packet one-way delay: 44.658 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 87.26 Mbit/s
95th percentile per-packet one-way delay: 44.658 ms
Loss rate: 0.09%

Run 4: Report of QUIC Cubic — Data Link

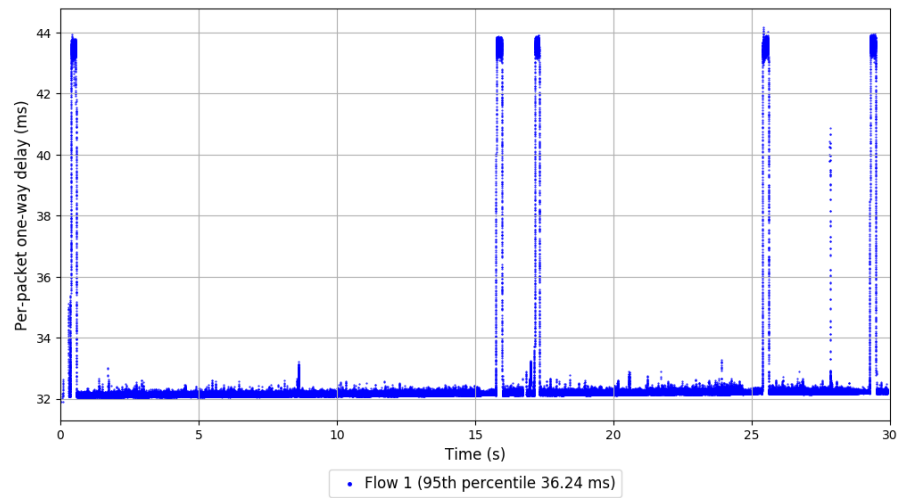
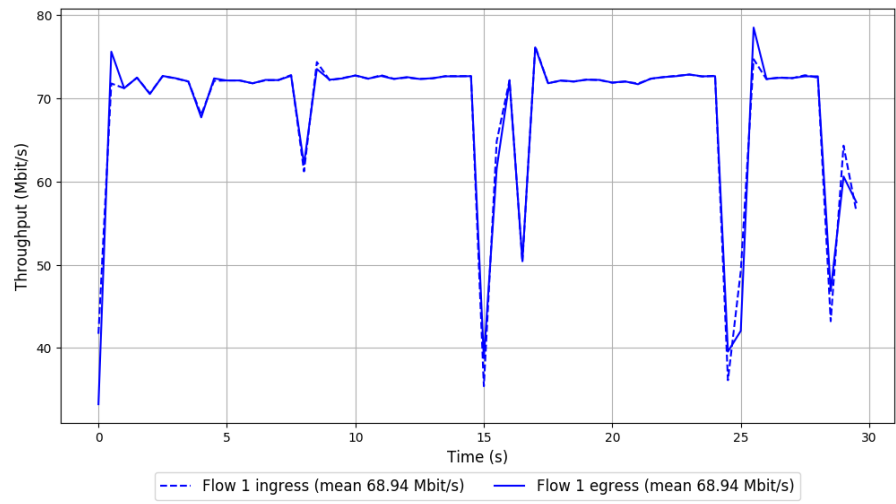


Run 5: Statistics of QUIC Cubic

Start at: 2018-01-01 22:47:10
End at: 2018-01-01 22:47:40
Local clock offset: -3.219 ms
Remote clock offset: -17.093 ms

Below is generated by plot.py at 2018-01-02 03:32:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 68.94 Mbit/s
95th percentile per-packet one-way delay: 36.244 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 68.94 Mbit/s
95th percentile per-packet one-way delay: 36.244 ms
Loss rate: 0.09%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-01 23:04:23

End at: 2018-01-01 23:04:53

Local clock offset: -5.292 ms

Remote clock offset: -16.16 ms

Below is generated by plot.py at 2018-01-02 03:33:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.13 Mbit/s

95th percentile per-packet one-way delay: 43.590 ms

Loss rate: 0.08%

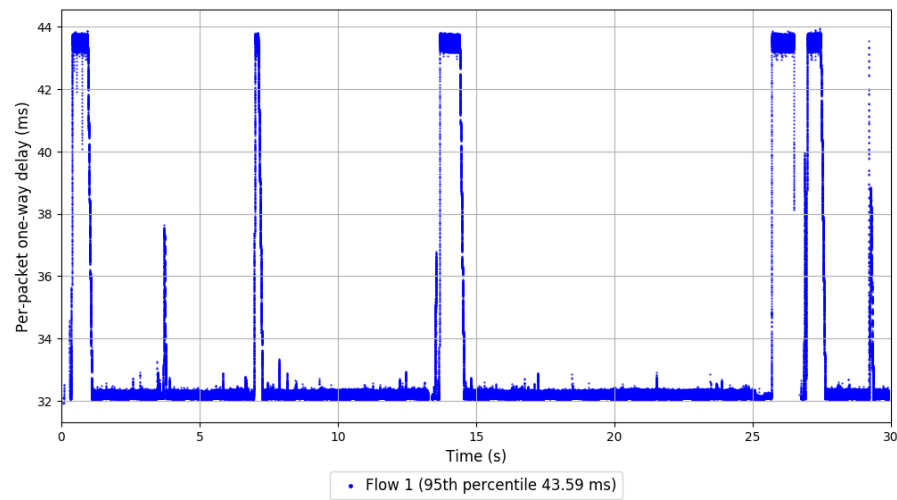
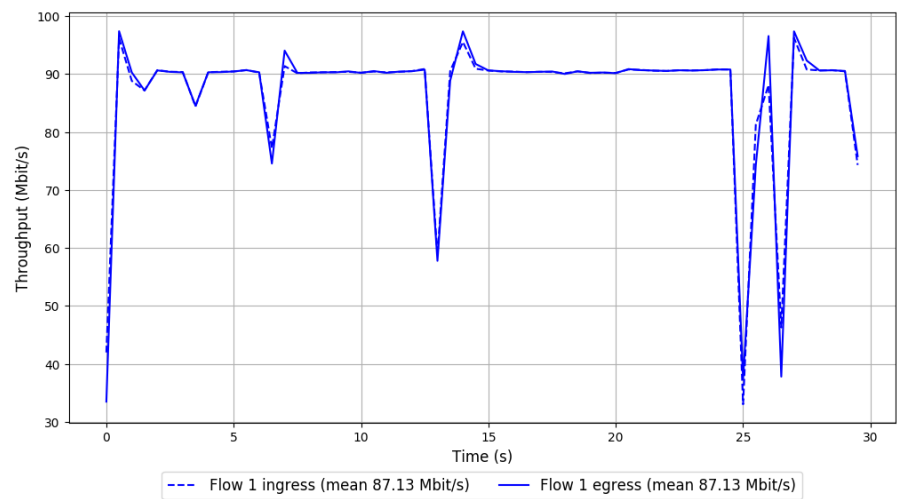
-- Flow 1:

Average throughput: 87.13 Mbit/s

95th percentile per-packet one-way delay: 43.590 ms

Loss rate: 0.08%

Run 6: Report of QUIC Cubic — Data Link

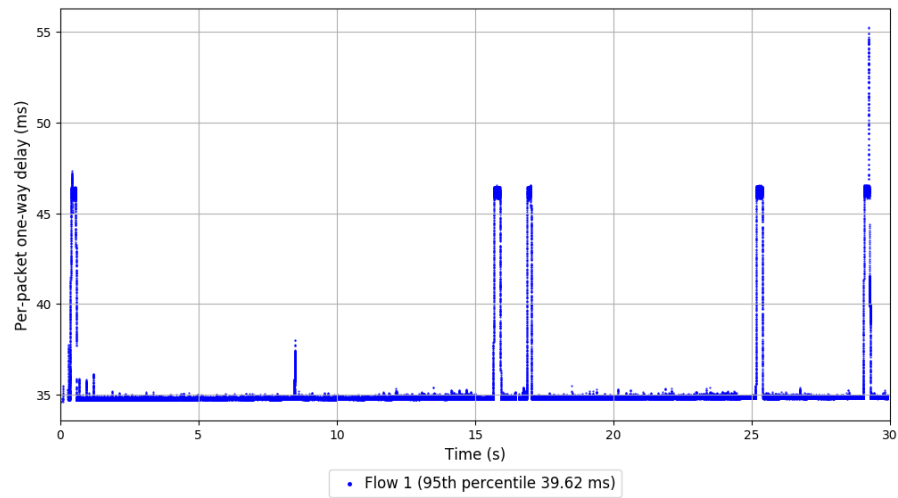
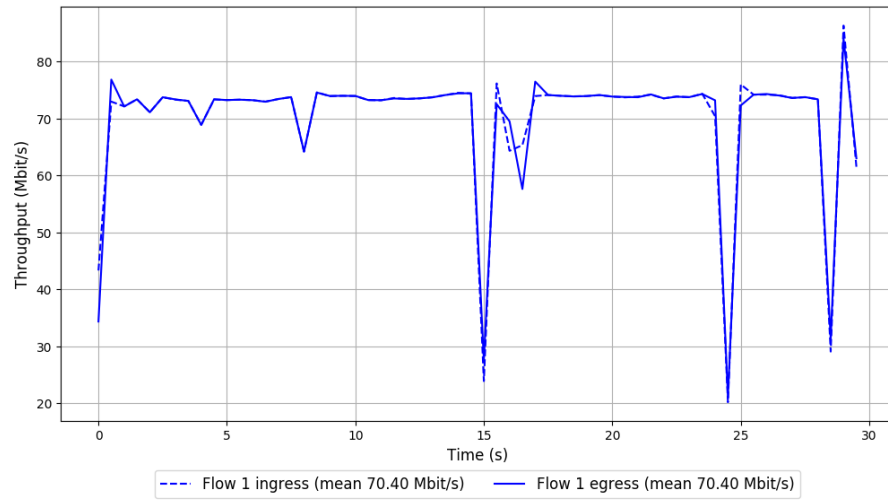


Run 7: Statistics of QUIC Cubic

Start at: 2018-01-01 23:21:39
End at: 2018-01-01 23:22:09
Local clock offset: -2.587 ms
Remote clock offset: -14.958 ms

Below is generated by plot.py at 2018-01-02 03:33:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 70.40 Mbit/s
95th percentile per-packet one-way delay: 39.625 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 70.40 Mbit/s
95th percentile per-packet one-way delay: 39.625 ms
Loss rate: 0.09%

Run 7: Report of QUIC Cubic — Data Link

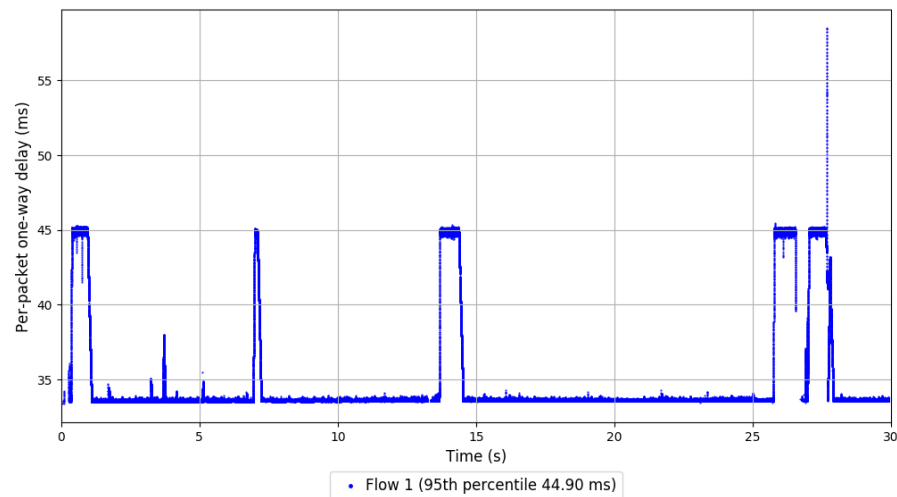
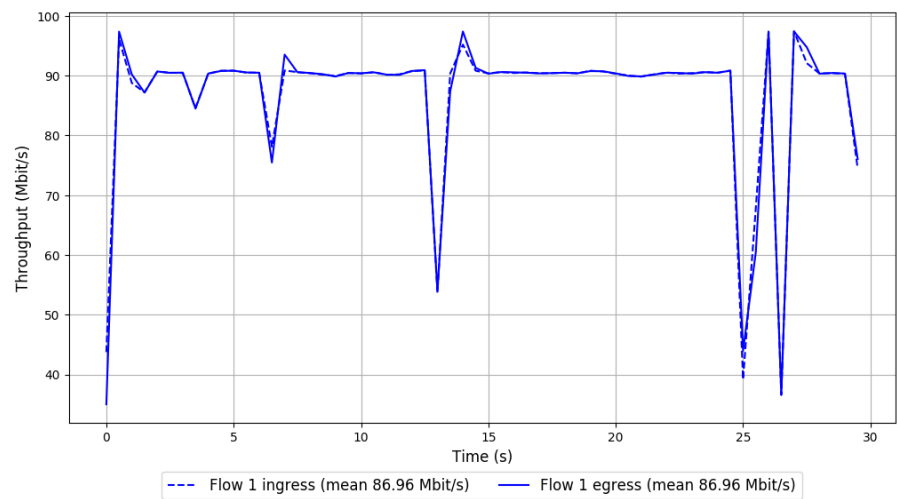


Run 8: Statistics of QUIC Cubic

Start at: 2018-01-01 23:38:52
End at: 2018-01-01 23:39:22
Local clock offset: -3.517 ms
Remote clock offset: -13.154 ms

Below is generated by plot.py at 2018-01-02 03:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.96 Mbit/s
95th percentile per-packet one-way delay: 44.895 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 86.96 Mbit/s
95th percentile per-packet one-way delay: 44.895 ms
Loss rate: 0.09%

Run 8: Report of QUIC Cubic — Data Link

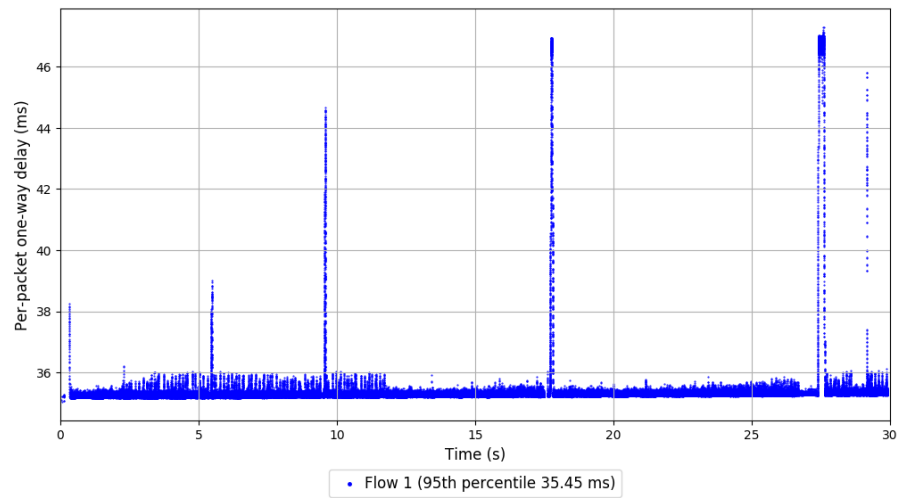
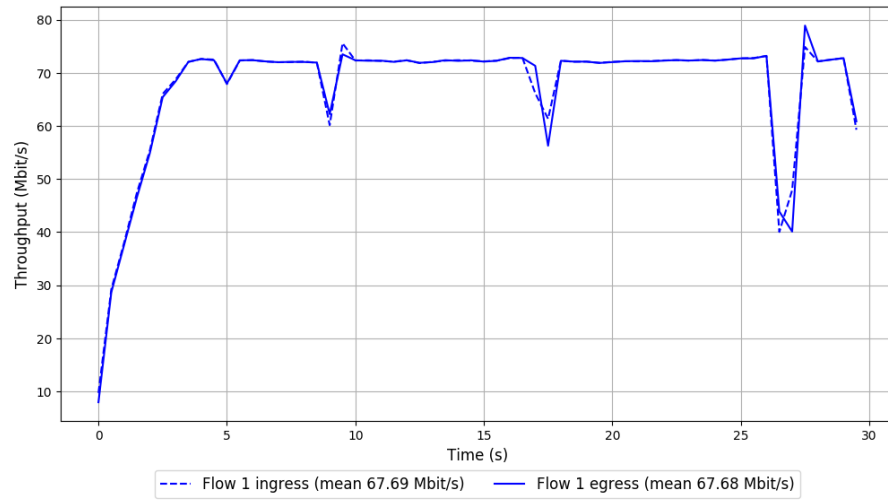


Run 9: Statistics of QUIC Cubic

Start at: 2018-01-01 23:56:11
End at: 2018-01-01 23:56:41
Local clock offset: -4.477 ms
Remote clock offset: -13.942 ms

Below is generated by plot.py at 2018-01-02 03:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 67.68 Mbit/s
95th percentile per-packet one-way delay: 35.448 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 67.68 Mbit/s
95th percentile per-packet one-way delay: 35.448 ms
Loss rate: 0.09%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-01-02 00:13:27

End at: 2018-01-02 00:13:57

Local clock offset: -6.768 ms

Remote clock offset: -13.749 ms

Below is generated by plot.py at 2018-01-02 03:33:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.14 Mbit/s

95th percentile per-packet one-way delay: 46.299 ms

Loss rate: 0.09%

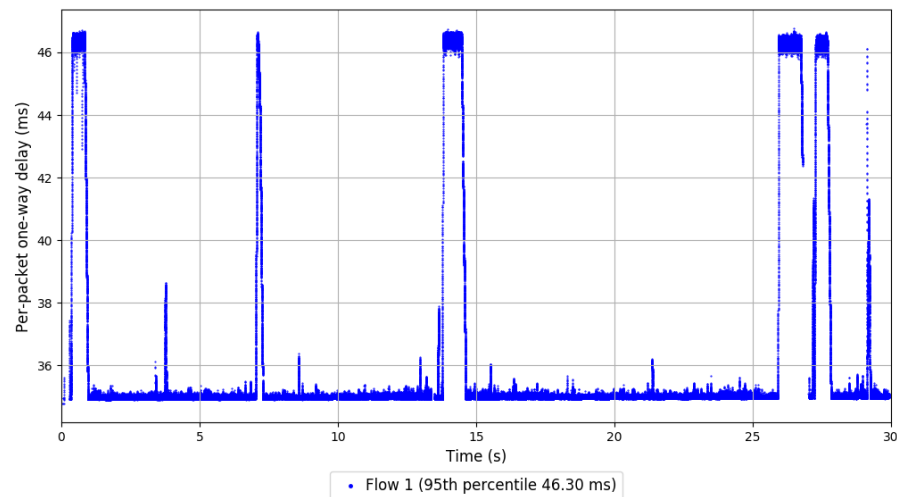
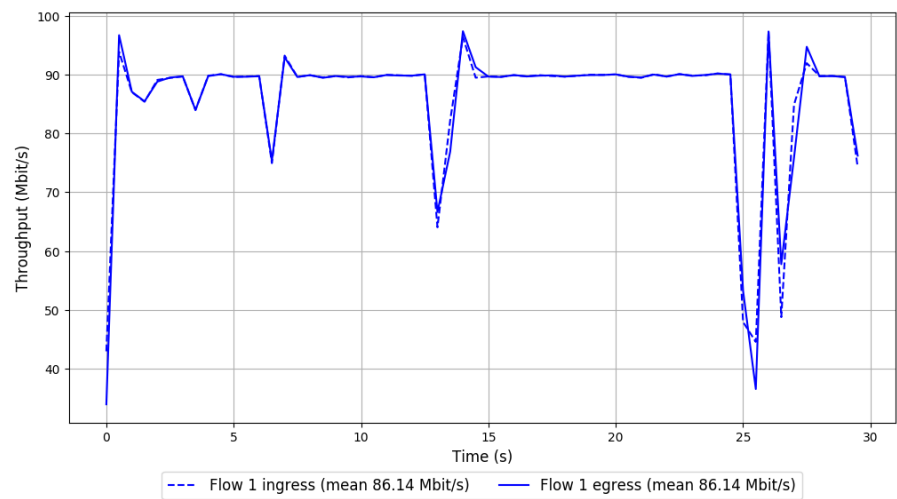
-- Flow 1:

Average throughput: 86.14 Mbit/s

95th percentile per-packet one-way delay: 46.299 ms

Loss rate: 0.09%

Run 10: Report of QUIC Cubic — Data Link

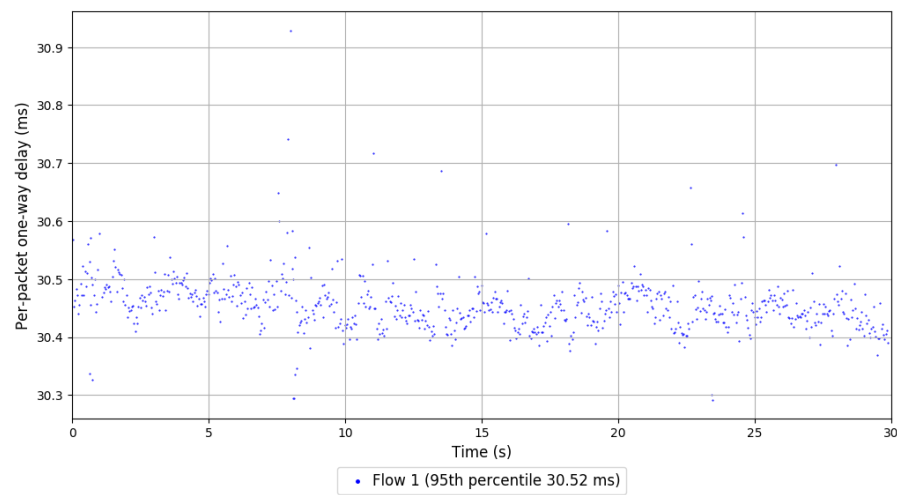
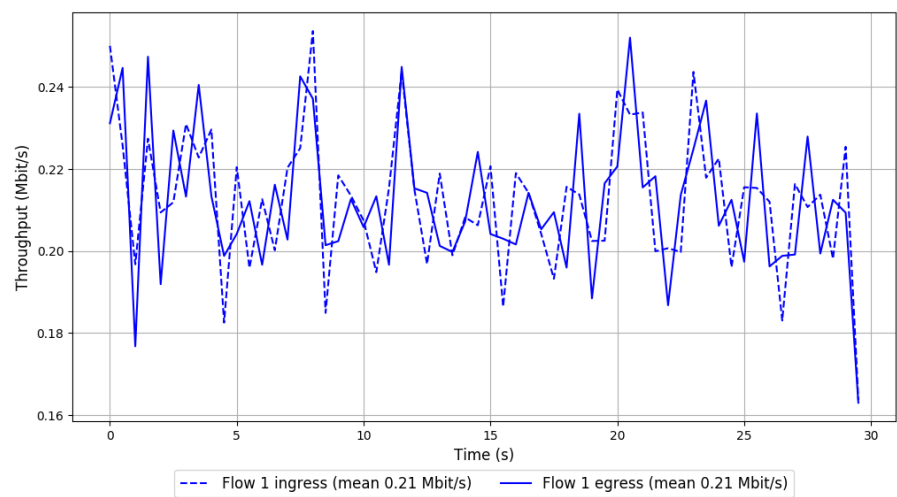


```
Run 1: Statistics of SCReAM

Start at: 2018-01-01 21:48:08
End at: 2018-01-01 21:48:38
Local clock offset: -6.78 ms
Remote clock offset: -20.79 ms

# Below is generated by plot.py at 2018-01-02 03:33:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.522 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.522 ms
Loss rate: 0.13%
```

Run 1: Report of SReAM — Data Link

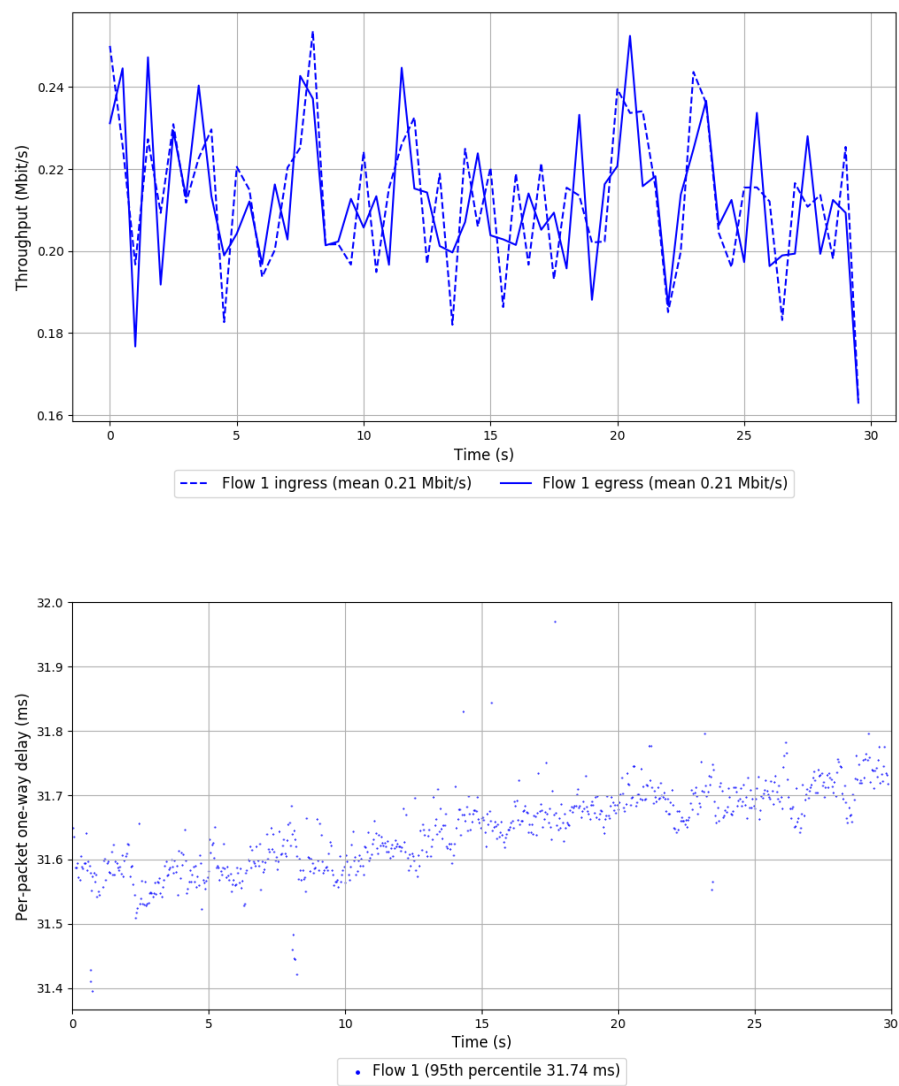


Run 2: Statistics of SCReAM

Start at: 2018-01-01 22:05:48
End at: 2018-01-01 22:06:18
Local clock offset: -5.134 ms
Remote clock offset: -18.426 ms

Below is generated by plot.py at 2018-01-02 03:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.737 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.737 ms
Loss rate: 0.13%

Run 2: Report of SReAM — Data Link

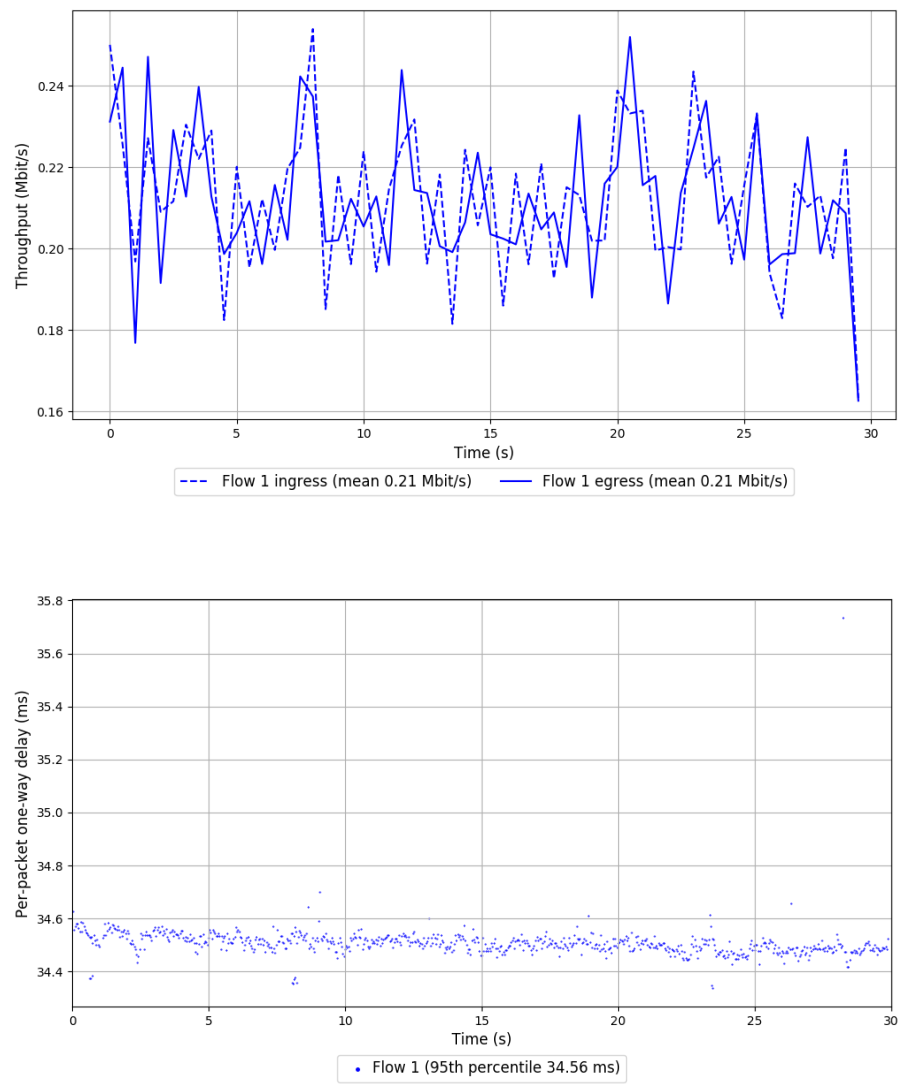


Run 3: Statistics of SCReAM

Start at: 2018-01-01 22:23:07
End at: 2018-01-01 22:23:37
Local clock offset: -2.823 ms
Remote clock offset: -20.661 ms

Below is generated by plot.py at 2018-01-02 03:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.559 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.559 ms
Loss rate: 0.13%

Run 3: Report of SReAM — Data Link

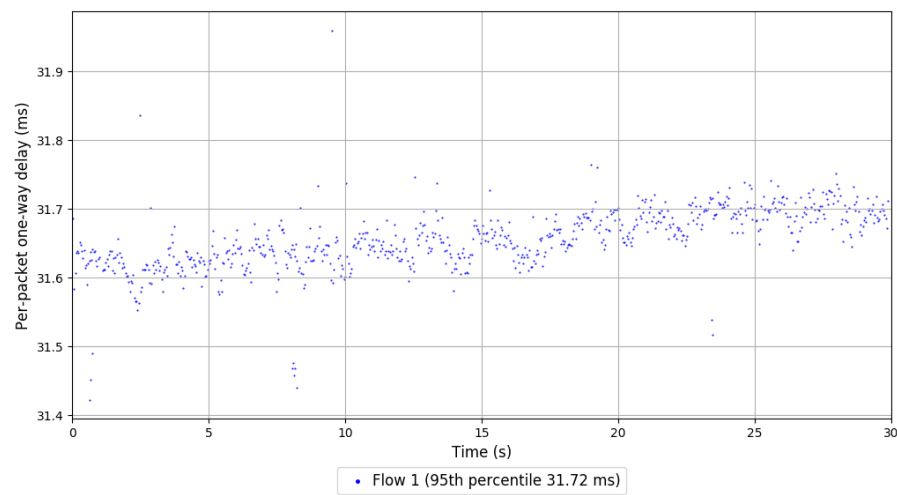
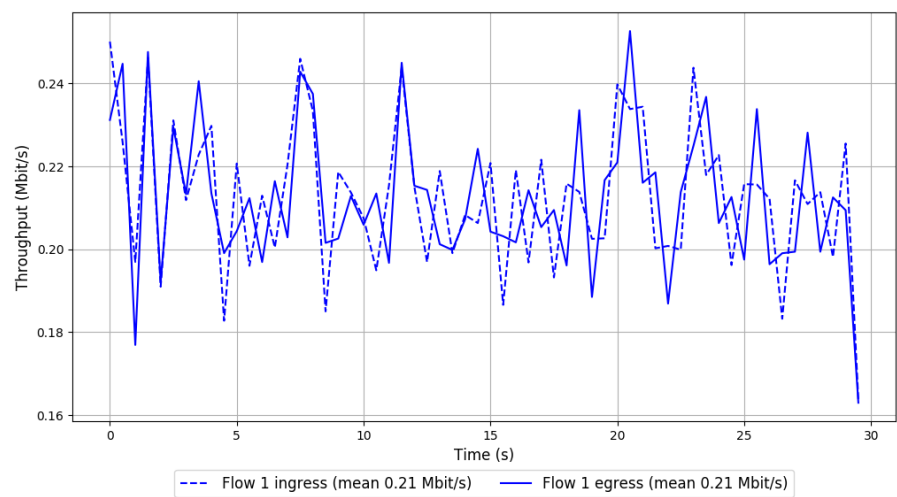


Run 4: Statistics of SCReAM

Start at: 2018-01-01 22:40:19
End at: 2018-01-01 22:40:49
Local clock offset: -2.533 ms
Remote clock offset: -17.43 ms

Below is generated by plot.py at 2018-01-02 03:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.717 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.717 ms
Loss rate: 0.13%

Run 4: Report of SReAM — Data Link

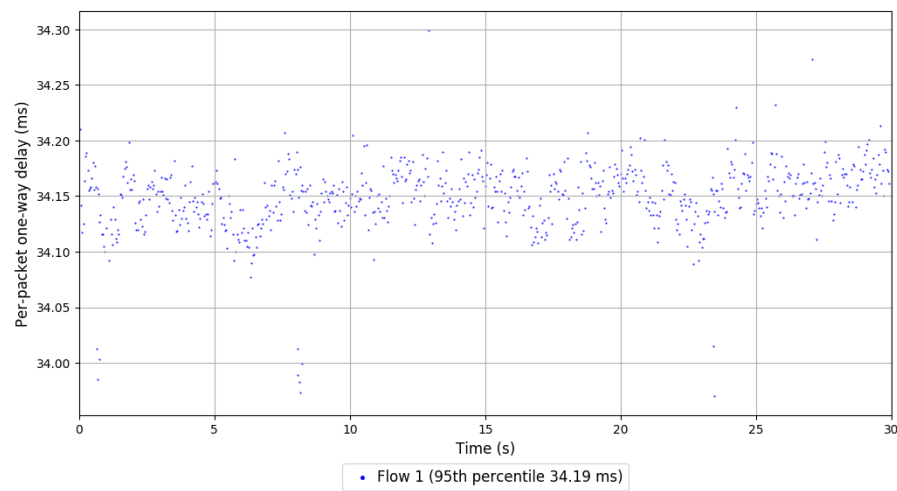
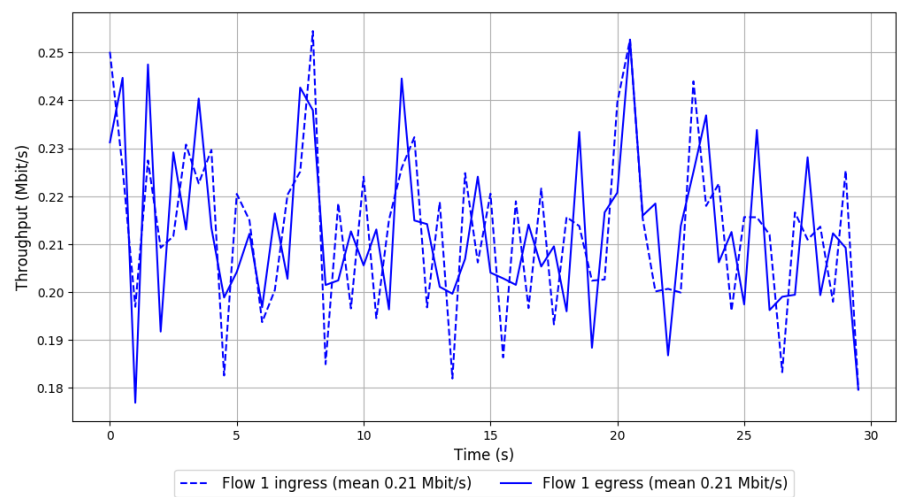


Run 5: Statistics of SCReAM

Start at: 2018-01-01 22:57:34
End at: 2018-01-01 22:58:04
Local clock offset: -3.085 ms
Remote clock offset: -16.383 ms

Below is generated by plot.py at 2018-01-02 03:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.188 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.188 ms
Loss rate: 0.13%

Run 5: Report of SReAM — Data Link

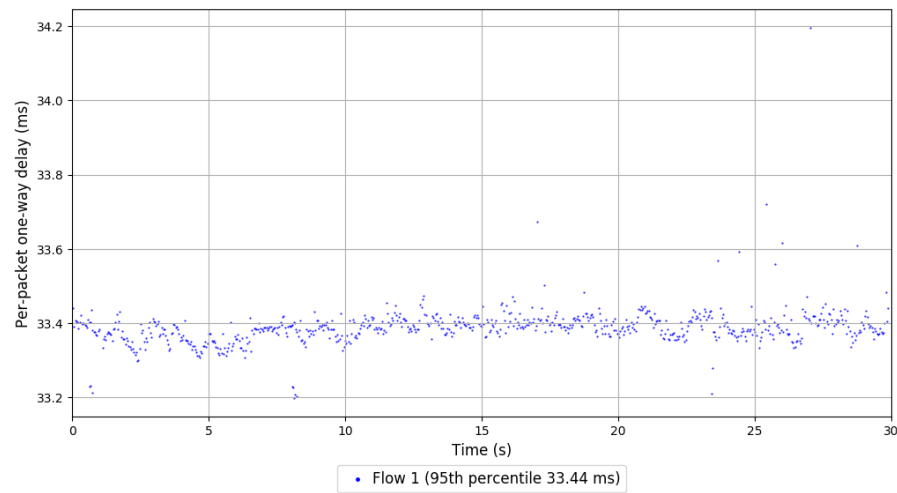
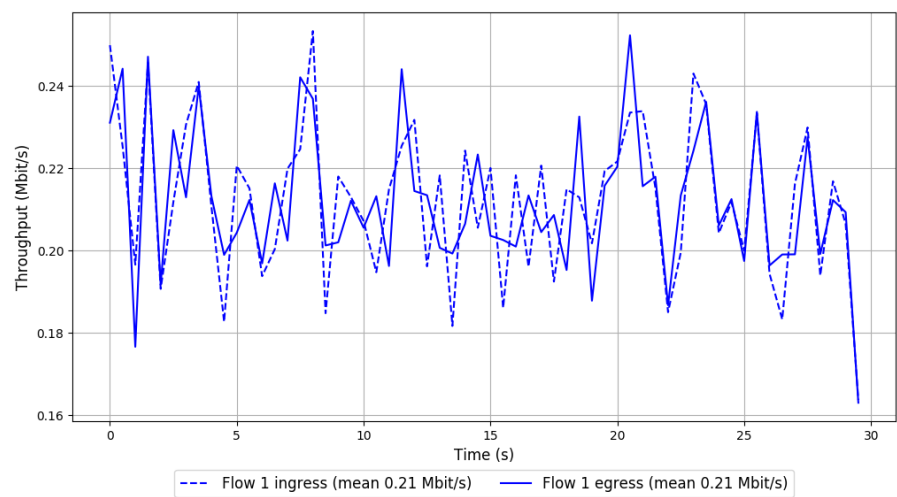


Run 6: Statistics of SCReAM

Start at: 2018-01-01 23:14:49
End at: 2018-01-01 23:15:19
Local clock offset: -3.604 ms
Remote clock offset: -15.444 ms

Below is generated by plot.py at 2018-01-02 03:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.438 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.438 ms
Loss rate: 0.13%

Run 6: Report of SReAM — Data Link

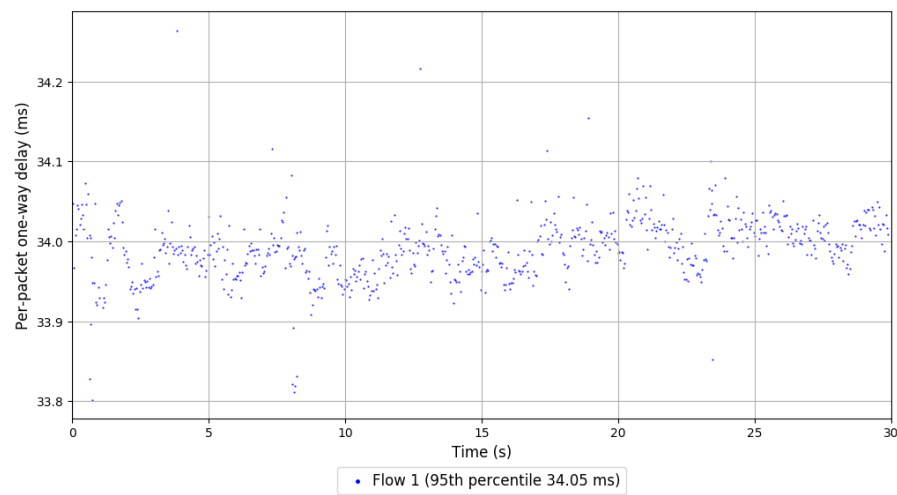
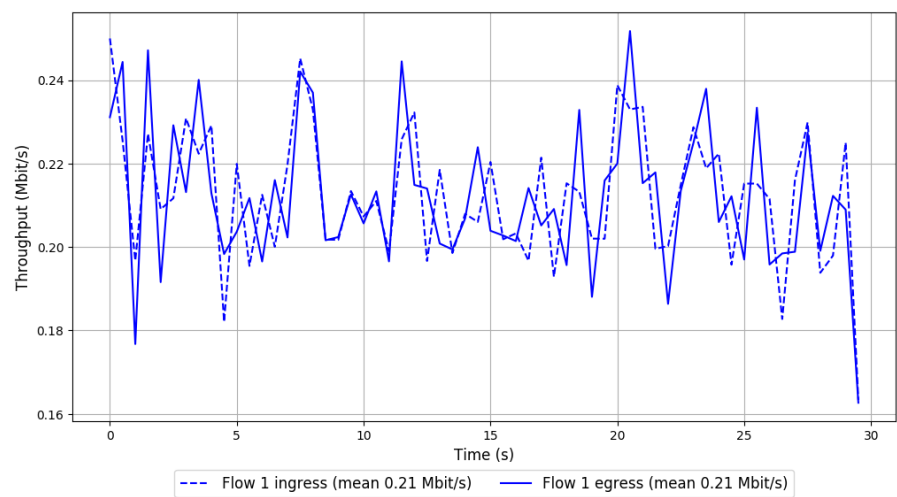


Run 7: Statistics of SCReAM

Start at: 2018-01-01 23:31:59
End at: 2018-01-01 23:32:29
Local clock offset: -2.693 ms
Remote clock offset: -13.667 ms

Below is generated by plot.py at 2018-01-02 03:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.046 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.046 ms
Loss rate: 0.13%

Run 7: Report of SCRaM — Data Link

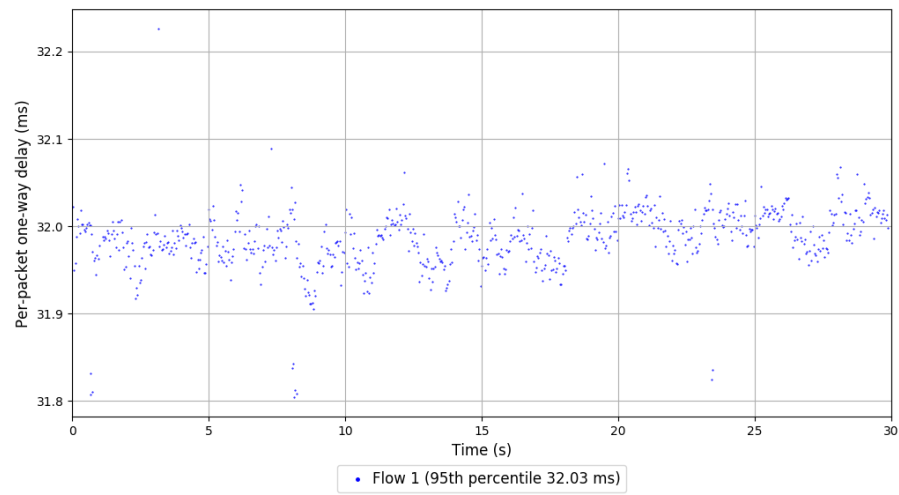
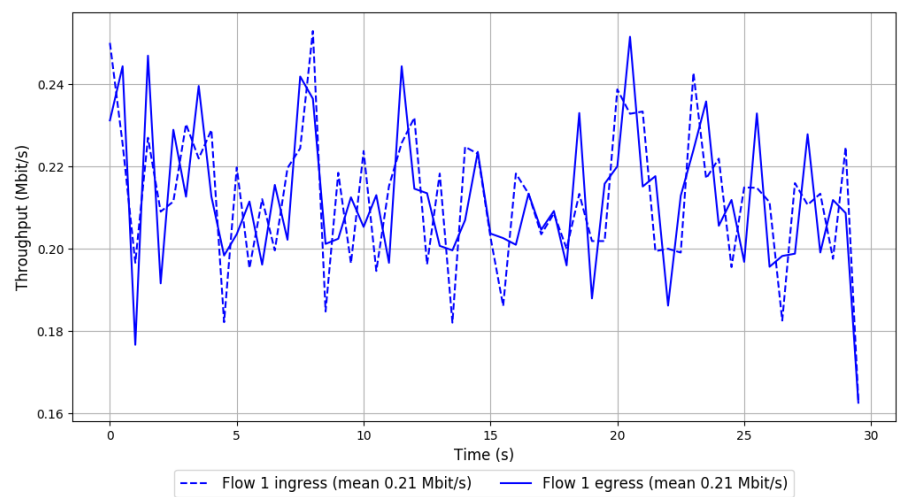


Run 8: Statistics of SCReAM

Start at: 2018-01-01 23:49:18
End at: 2018-01-01 23:49:48
Local clock offset: -4.86 ms
Remote clock offset: -11.917 ms

Below is generated by plot.py at 2018-01-02 03:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 32.028 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 32.028 ms
Loss rate: 0.13%

Run 8: Report of SReAM — Data Link

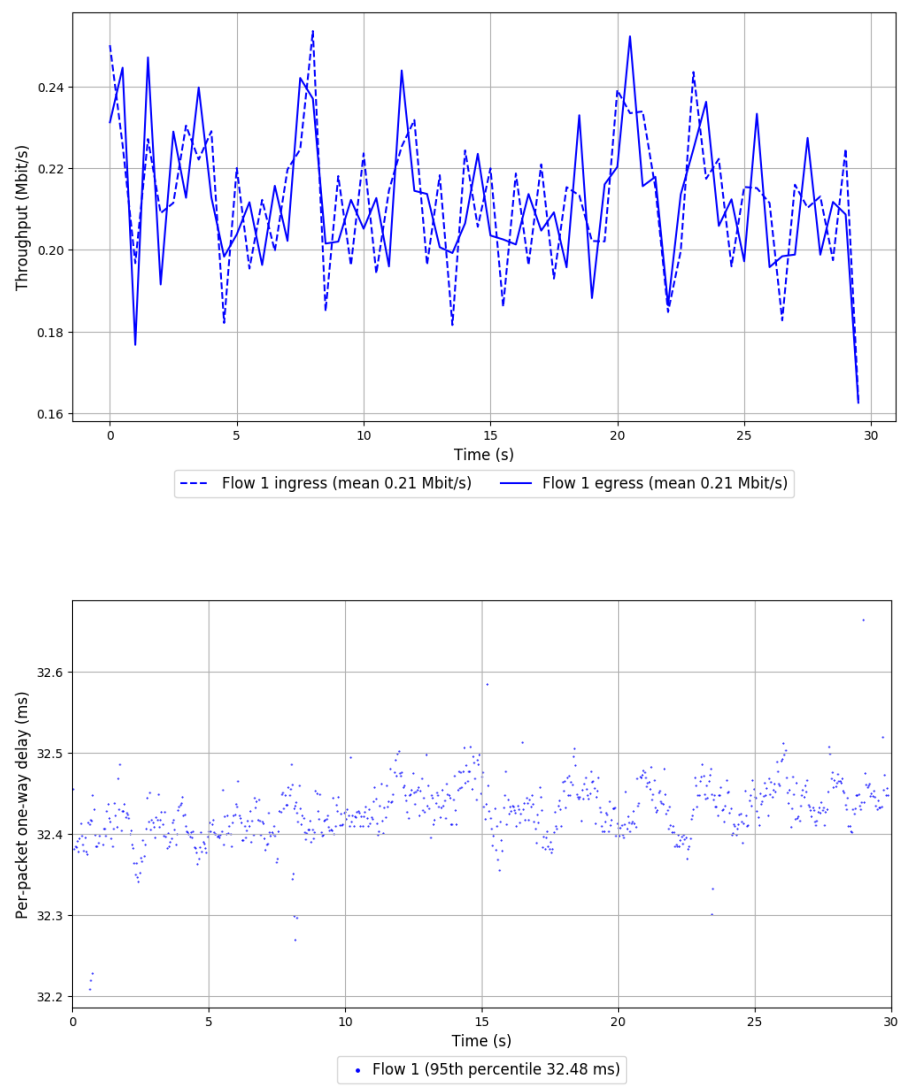


Run 9: Statistics of SCReAM

Start at: 2018-01-02 00:06:38
End at: 2018-01-02 00:07:08
Local clock offset: -6.825 ms
Remote clock offset: -11.808 ms

Below is generated by plot.py at 2018-01-02 03:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 32.477 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 32.477 ms
Loss rate: 0.13%

Run 9: Report of SReAM — Data Link

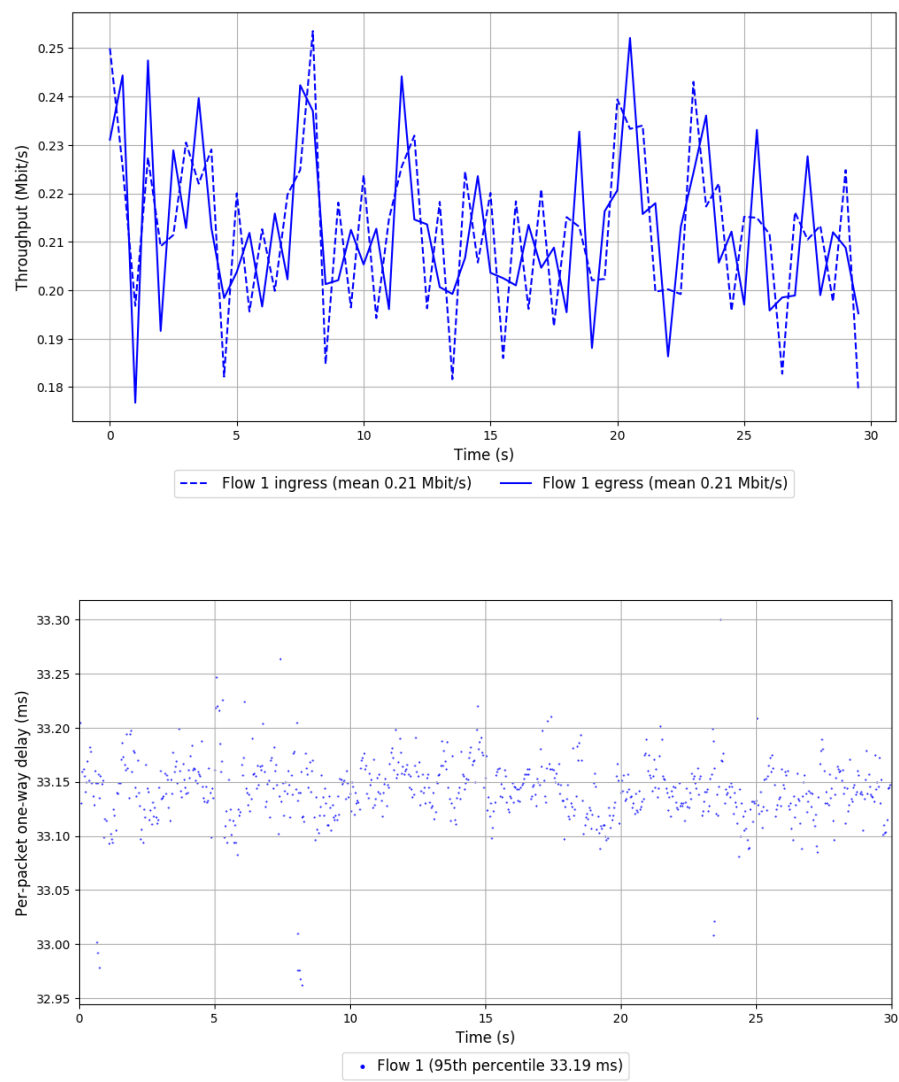


Run 10: Statistics of SReAM

Start at: 2018-01-02 00:23:56
End at: 2018-01-02 00:24:26
Local clock offset: -6.972 ms
Remote clock offset: -11.486 ms

Below is generated by plot.py at 2018-01-02 03:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.186 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.186 ms
Loss rate: 0.00%

Run 10: Report of SCRaM — Data Link

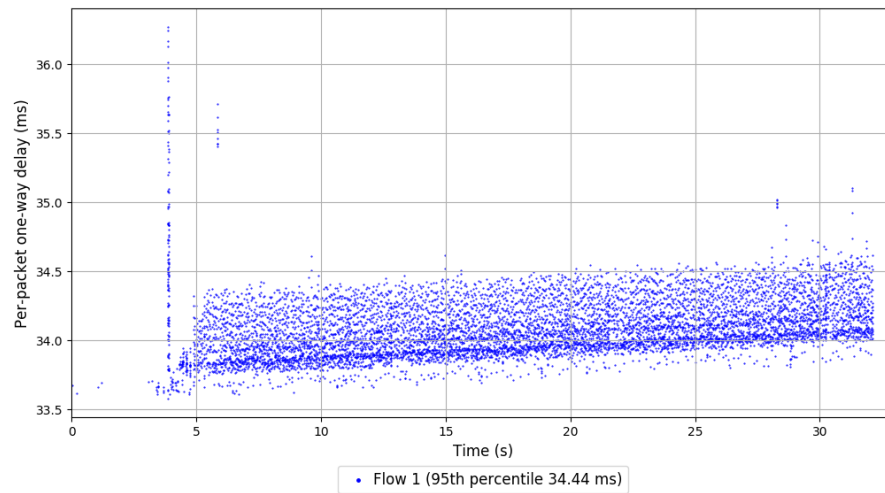
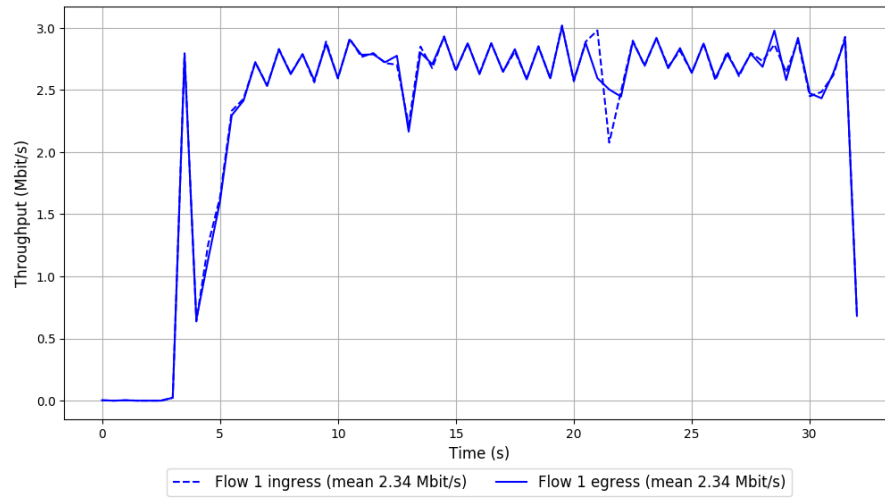


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-01 21:36:24
End at: 2018-01-01 21:36:54
Local clock offset: 0.225 ms
Remote clock offset: -18.92 ms

# Below is generated by plot.py at 2018-01-02 03:33:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 34.441 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 34.441 ms
Loss rate: 0.15%
```


Run 1: Report of WebRTC media — Data Link

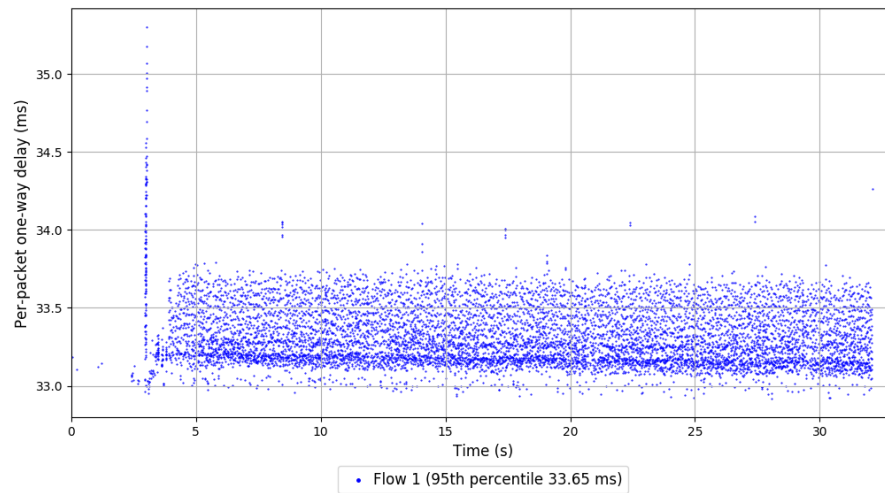
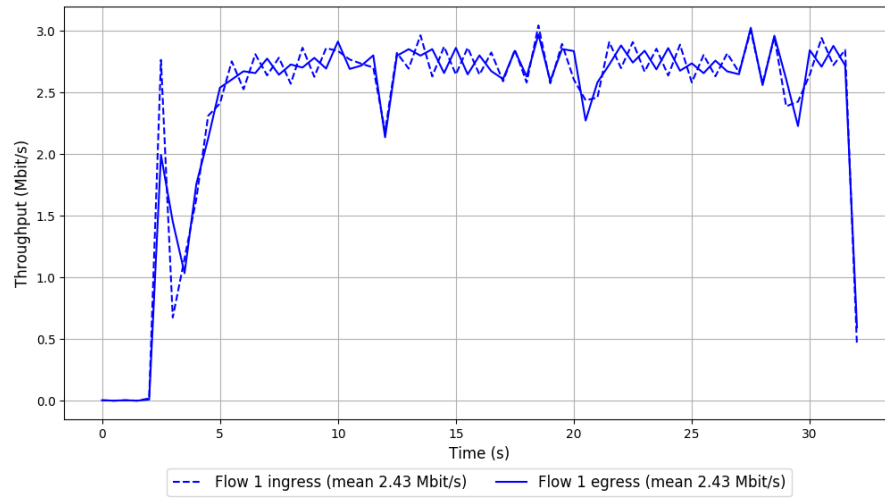


Run 2: Statistics of WebRTC media

Start at: 2018-01-01 21:54:09
End at: 2018-01-01 21:54:39
Local clock offset: -2.003 ms
Remote clock offset: -19.156 ms

Below is generated by plot.py at 2018-01-02 03:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 33.649 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 33.649 ms
Loss rate: 0.04%

Run 2: Report of WebRTC media — Data Link

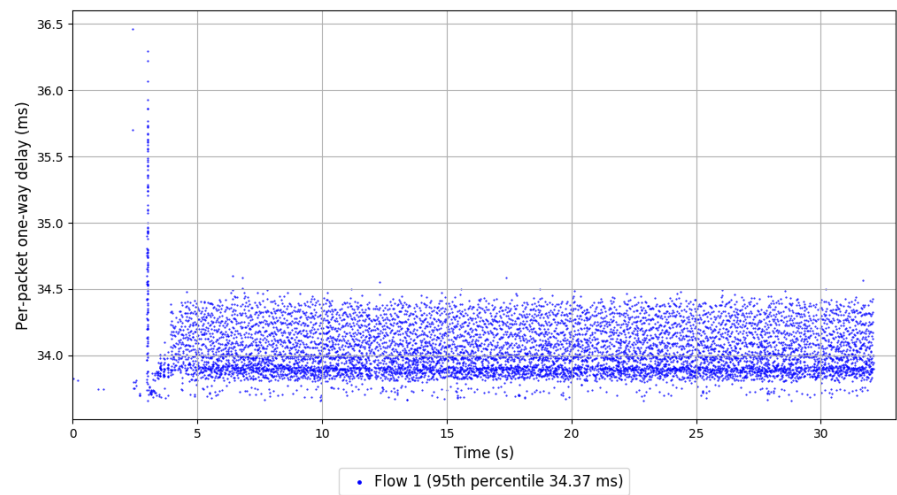
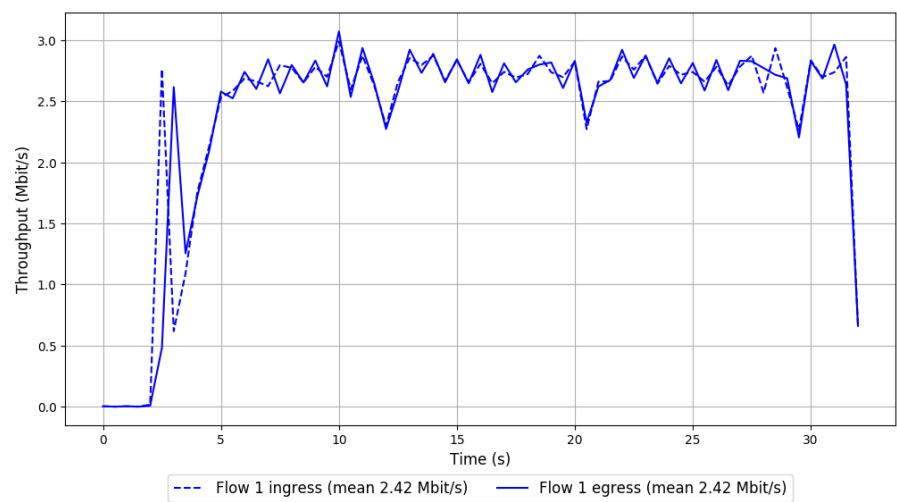


Run 3: Statistics of WebRTC media

Start at: 2018-01-01 22:11:39
End at: 2018-01-01 22:12:09
Local clock offset: -4.716 ms
Remote clock offset: -19.555 ms

Below is generated by plot.py at 2018-01-02 03:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 34.373 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 34.373 ms
Loss rate: 0.14%

Run 3: Report of WebRTC media — Data Link

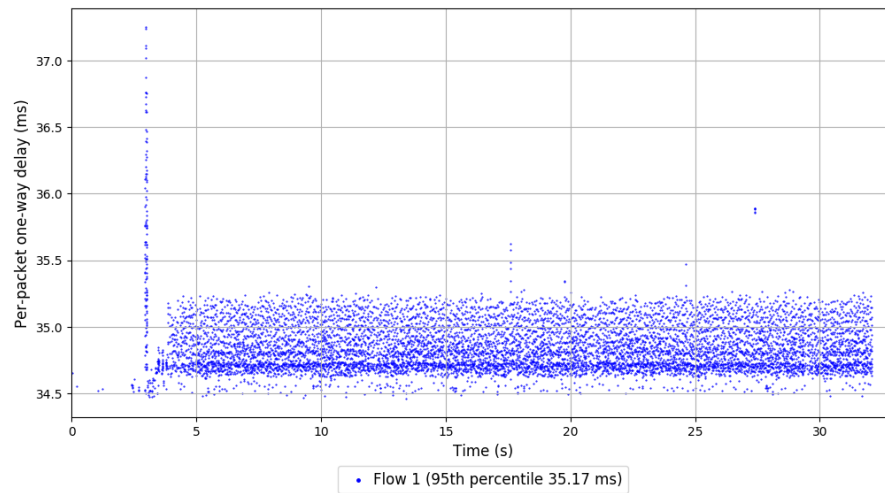
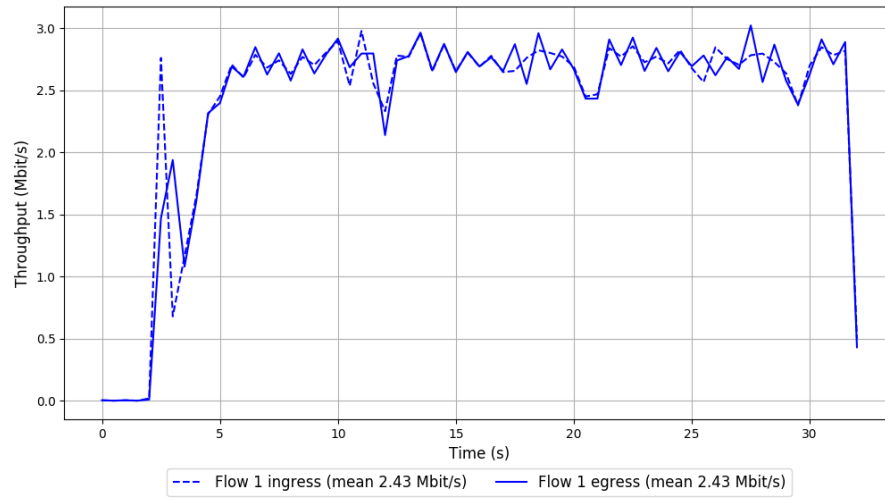


Run 4: Statistics of WebRTC media

Start at: 2018-01-01 22:28:52
End at: 2018-01-01 22:29:22
Local clock offset: -1.695 ms
Remote clock offset: -20.545 ms

Below is generated by plot.py at 2018-01-02 03:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 35.167 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 35.167 ms
Loss rate: 0.14%

Run 4: Report of WebRTC media — Data Link

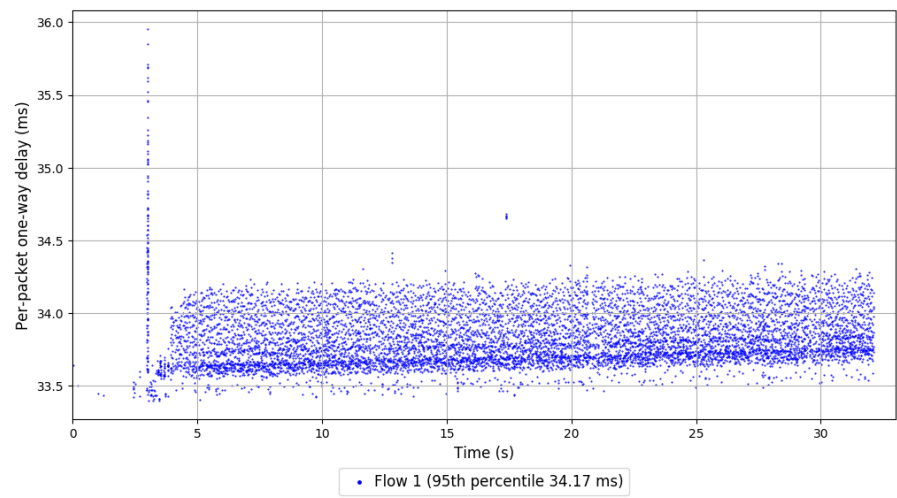
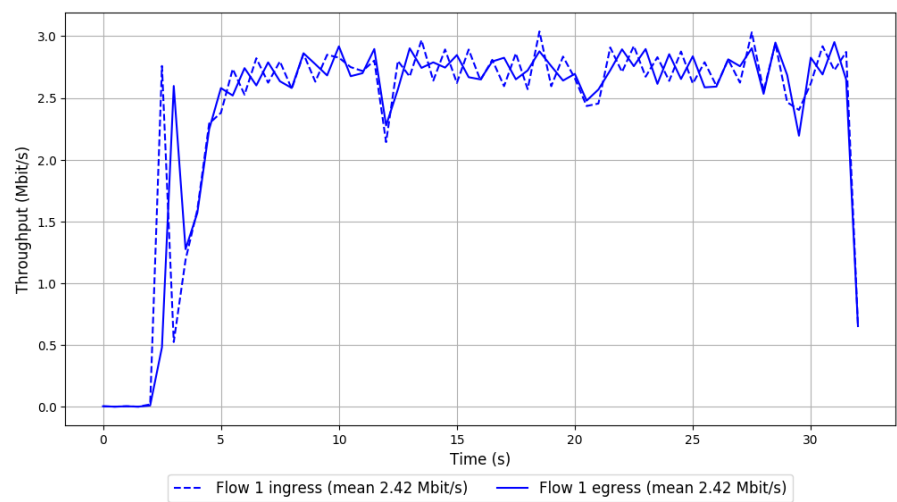


Run 5: Statistics of WebRTC media

Start at: 2018-01-01 22:46:05
End at: 2018-01-01 22:46:35
Local clock offset: -2.532 ms
Remote clock offset: -18.199 ms

Below is generated by plot.py at 2018-01-02 03:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 34.167 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 34.167 ms
Loss rate: 0.15%

Run 5: Report of WebRTC media — Data Link

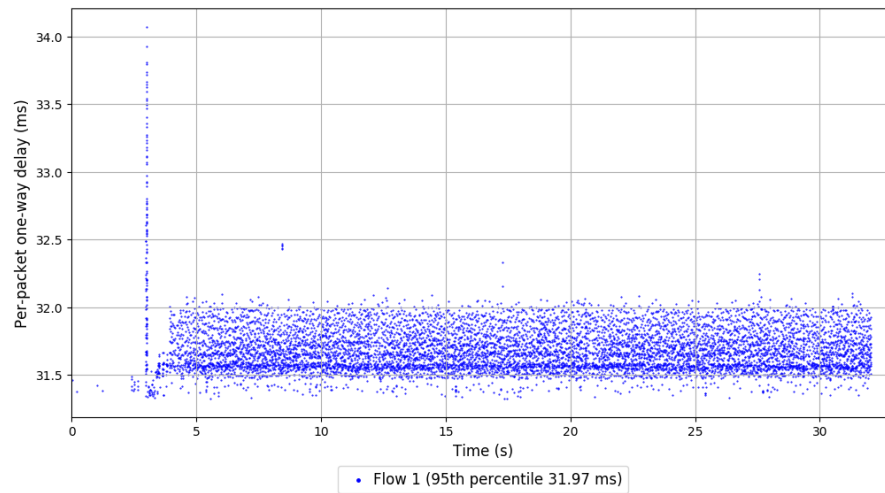
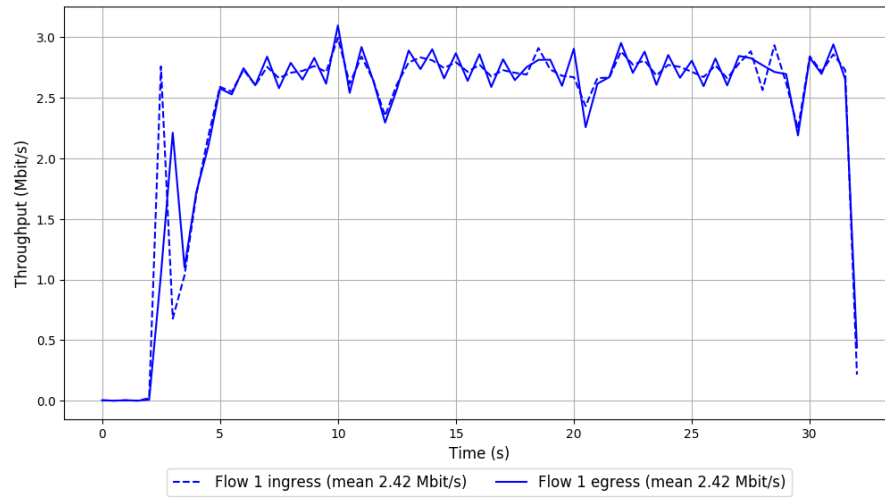


Run 6: Statistics of WebRTC media

Start at: 2018-01-01 23:03:18
End at: 2018-01-01 23:03:48
Local clock offset: -7.239 ms
Remote clock offset: -17.54 ms

Below is generated by plot.py at 2018-01-02 03:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 31.968 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 31.968 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

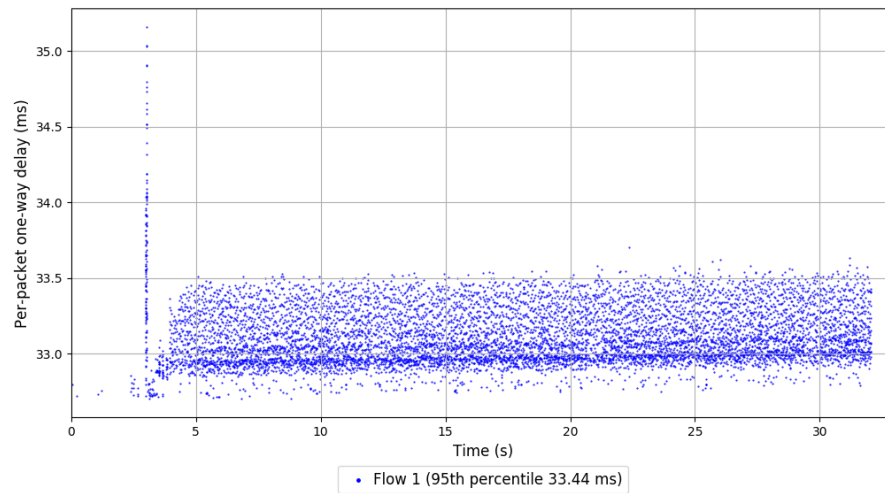
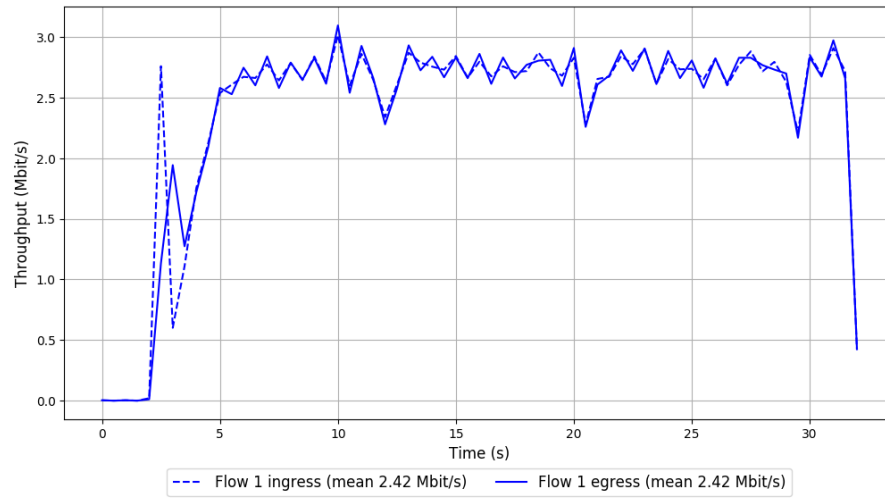


Run 7: Statistics of WebRTC media

Start at: 2018-01-01 23:20:35
End at: 2018-01-01 23:21:05
Local clock offset: -4.055 ms
Remote clock offset: -14.766 ms

Below is generated by plot.py at 2018-01-02 03:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 33.444 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 33.444 ms
Loss rate: 0.14%

Run 7: Report of WebRTC media — Data Link

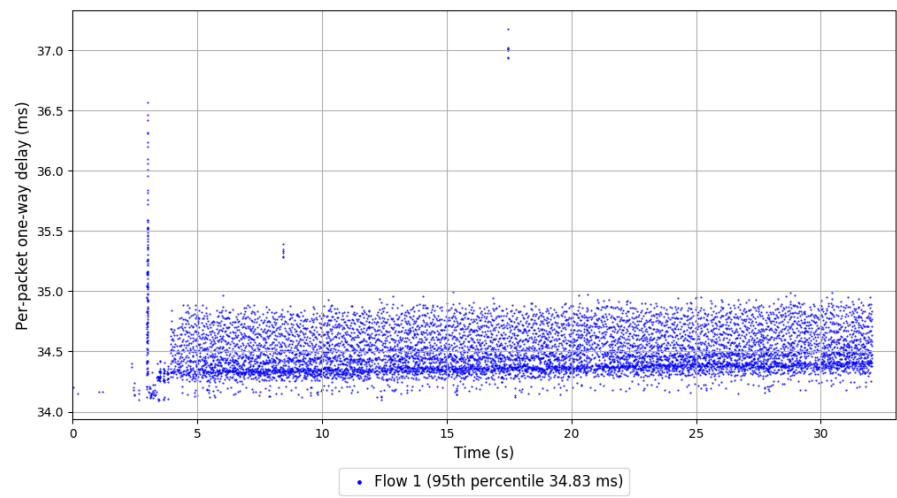
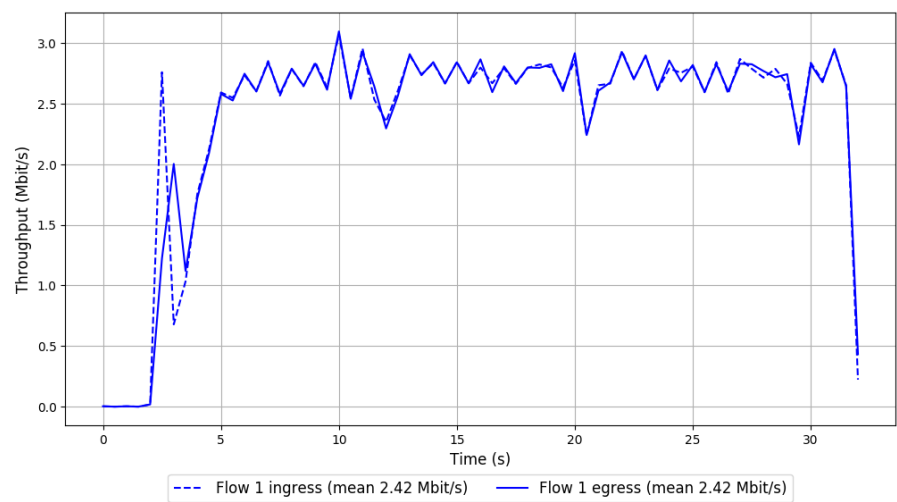


Run 8: Statistics of WebRTC media

Start at: 2018-01-01 23:37:48
End at: 2018-01-01 23:38:18
Local clock offset: -4.344 ms
Remote clock offset: -14.912 ms

Below is generated by plot.py at 2018-01-02 03:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 34.831 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 34.831 ms
Loss rate: 0.01%

Run 8: Report of WebRTC media — Data Link

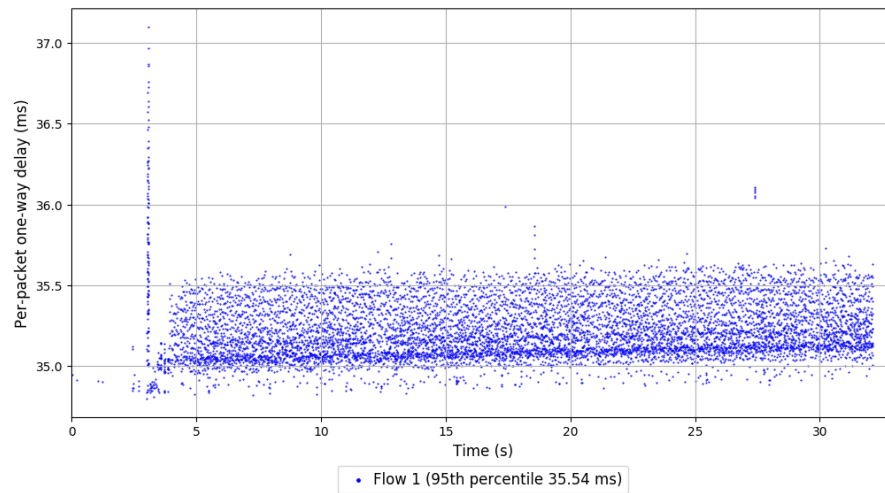
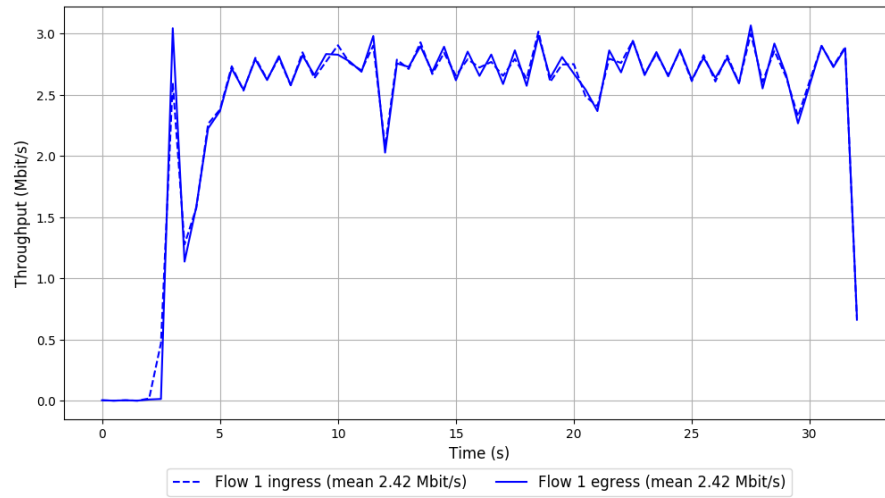


Run 9: Statistics of WebRTC media

Start at: 2018-01-01 23:55:06
End at: 2018-01-01 23:55:36
Local clock offset: -4.444 ms
Remote clock offset: -13.947 ms

Below is generated by plot.py at 2018-01-02 03:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 35.538 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 35.538 ms
Loss rate: 0.14%

Run 9: Report of WebRTC media — Data Link

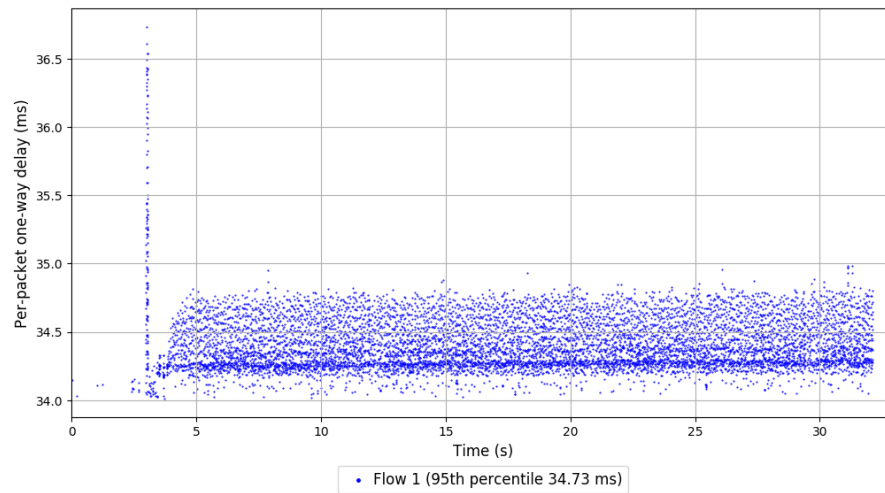
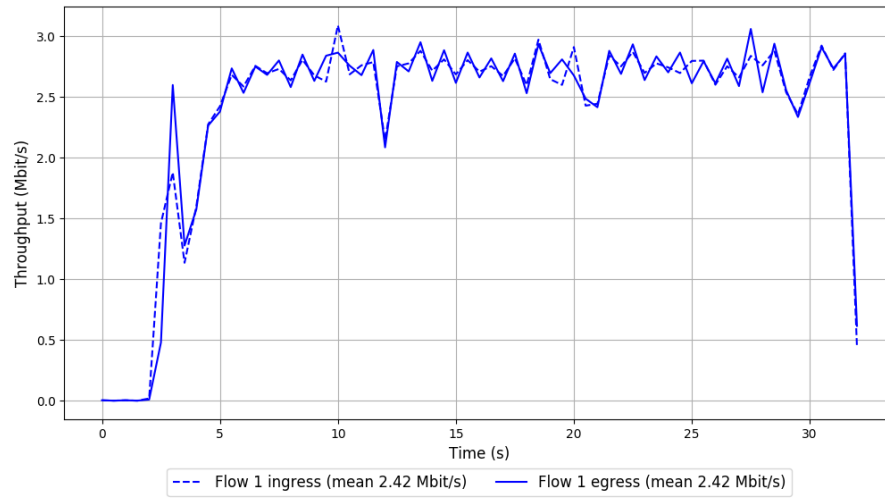


Run 10: Statistics of WebRTC media

Start at: 2018-01-02 00:12:22
End at: 2018-01-02 00:12:52
Local clock offset: -6.094 ms
Remote clock offset: -12.434 ms

Below is generated by plot.py at 2018-01-02 03:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 34.735 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 34.735 ms
Loss rate: 0.04%

Run 10: Report of WebRTC media — Data Link

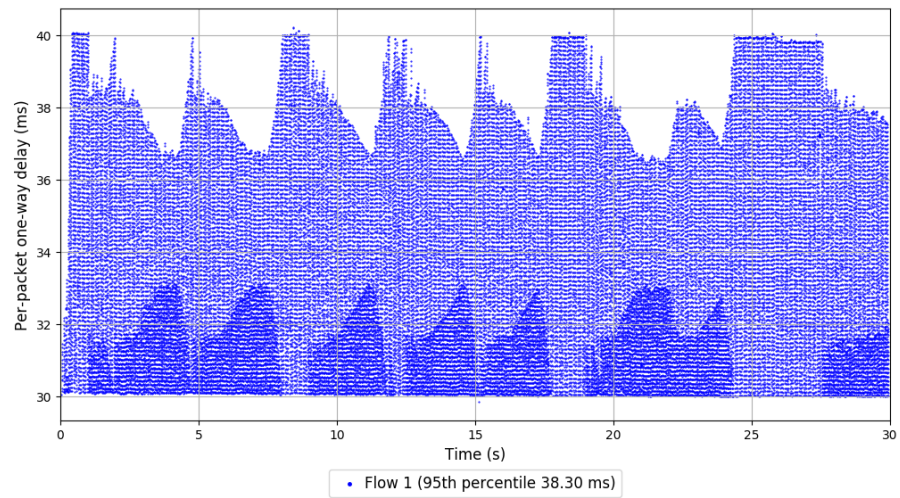
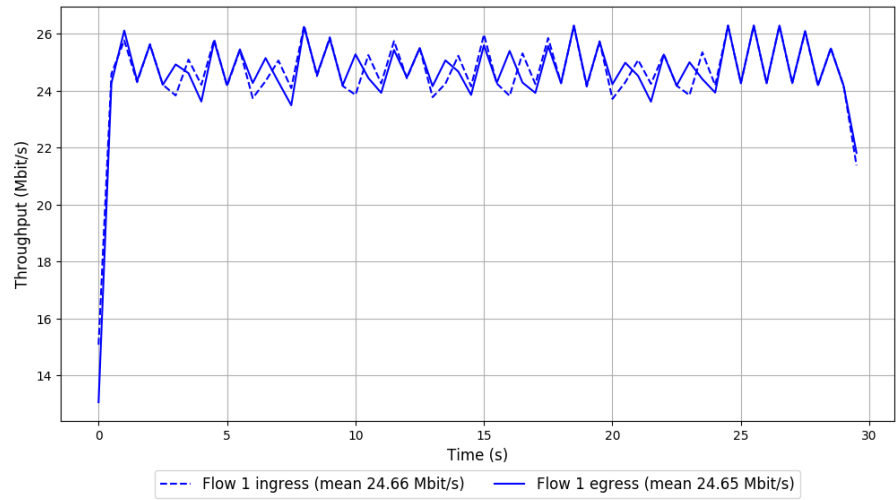


Run 1: Statistics of Sprout

Start at: 2018-01-01 21:47:02
End at: 2018-01-01 21:47:32
Local clock offset: -5.657 ms
Remote clock offset: -19.12 ms

Below is generated by plot.py at 2018-01-02 03:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.65 Mbit/s
95th percentile per-packet one-way delay: 38.295 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 24.65 Mbit/s
95th percentile per-packet one-way delay: 38.295 ms
Loss rate: 0.11%

Run 1: Report of Sprout — Data Link

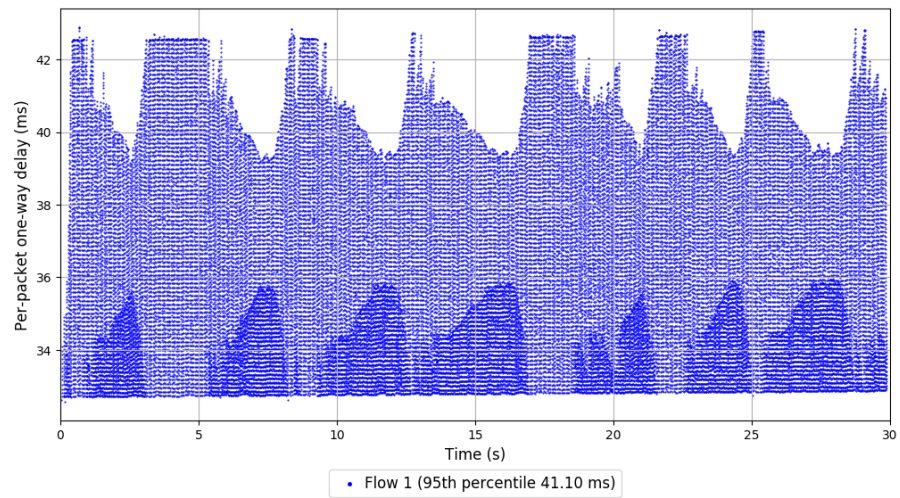
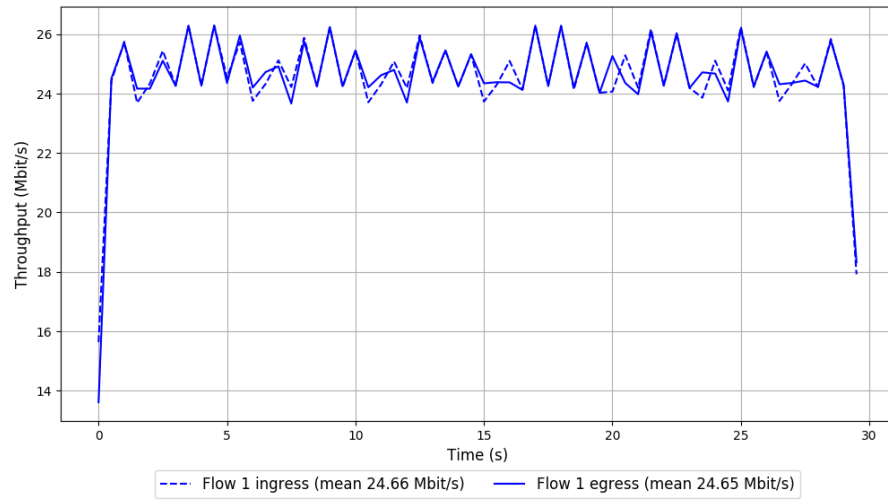


Run 2: Statistics of Sprout

Start at: 2018-01-01 22:04:42
End at: 2018-01-01 22:05:12
Local clock offset: -3.517 ms
Remote clock offset: -18.329 ms

Below is generated by plot.py at 2018-01-02 03:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.65 Mbit/s
95th percentile per-packet one-way delay: 41.097 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 24.65 Mbit/s
95th percentile per-packet one-way delay: 41.097 ms
Loss rate: 0.11%

Run 2: Report of Sprout — Data Link

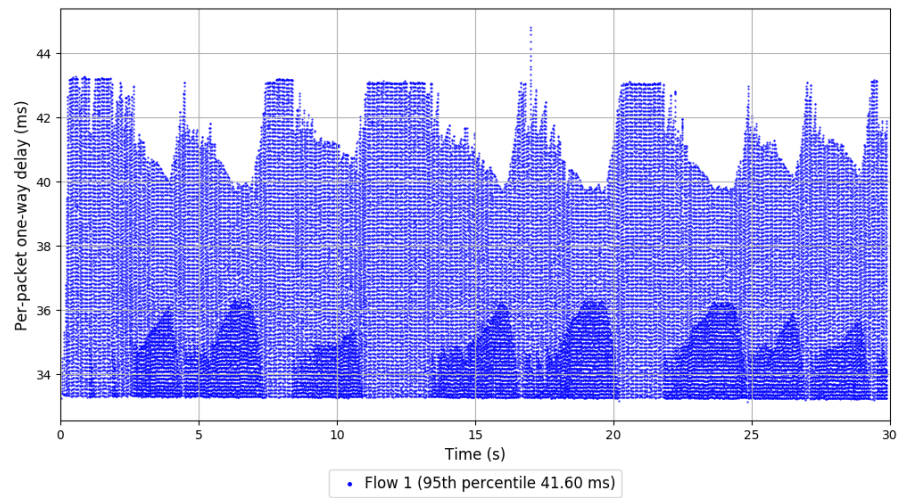
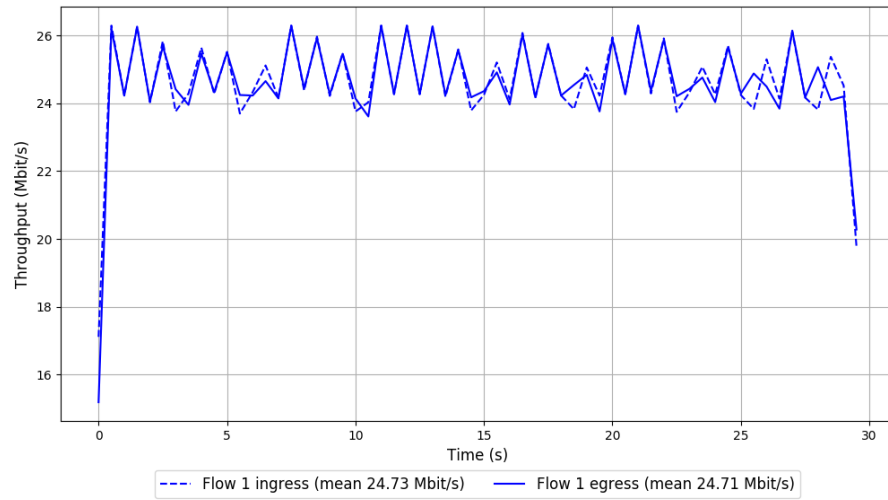


Run 3: Statistics of Sprout

Start at: 2018-01-01 22:22:02
End at: 2018-01-01 22:22:32
Local clock offset: -3.406 ms
Remote clock offset: -19.883 ms

Below is generated by plot.py at 2018-01-02 03:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.71 Mbit/s
95th percentile per-packet one-way delay: 41.599 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 24.71 Mbit/s
95th percentile per-packet one-way delay: 41.599 ms
Loss rate: 0.12%

Run 3: Report of Sprout — Data Link

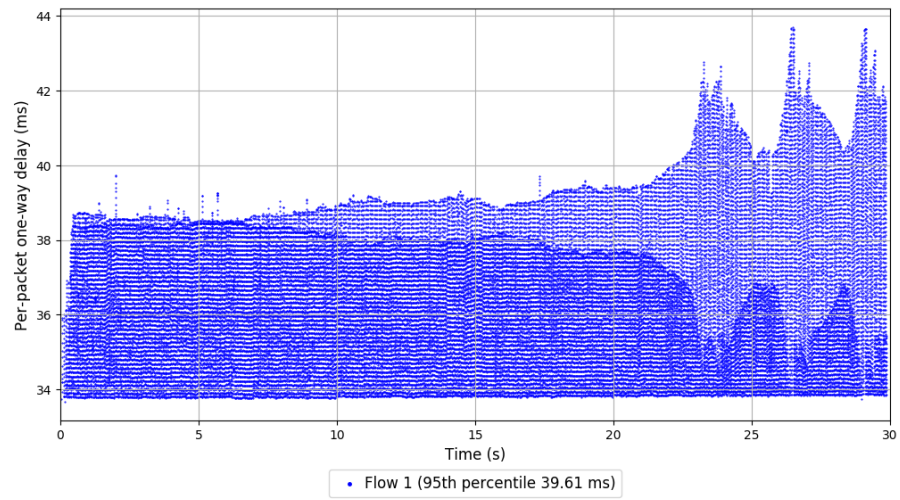
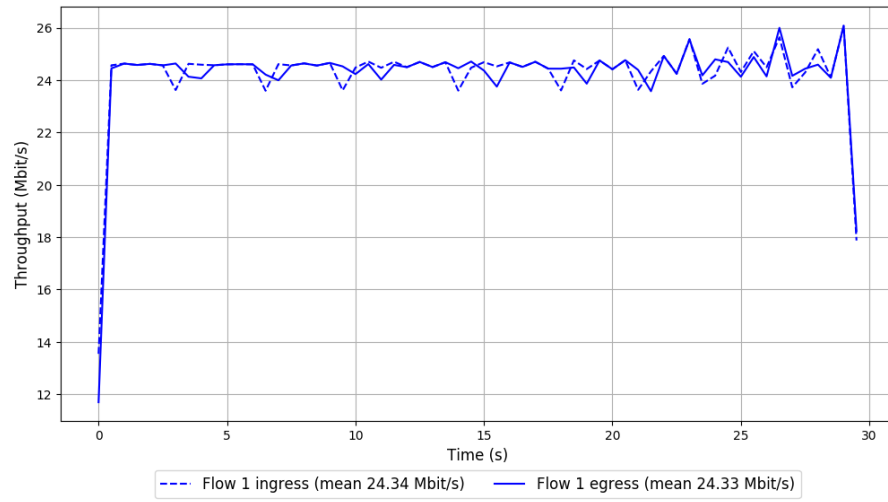


Run 4: Statistics of Sprout

Start at: 2018-01-01 22:39:14
End at: 2018-01-01 22:39:44
Local clock offset: -1.577 ms
Remote clock offset: -18.794 ms

Below is generated by plot.py at 2018-01-02 03:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.33 Mbit/s
95th percentile per-packet one-way delay: 39.606 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 24.33 Mbit/s
95th percentile per-packet one-way delay: 39.606 ms
Loss rate: 0.11%

Run 4: Report of Sprout — Data Link

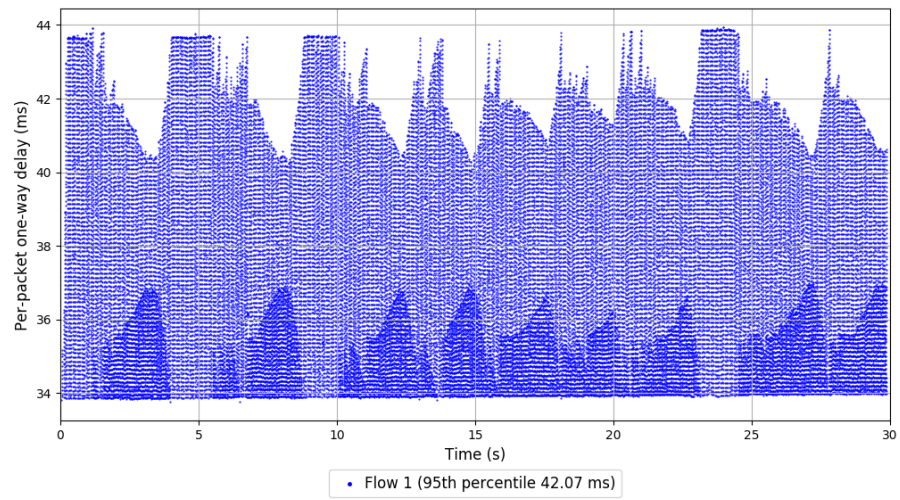
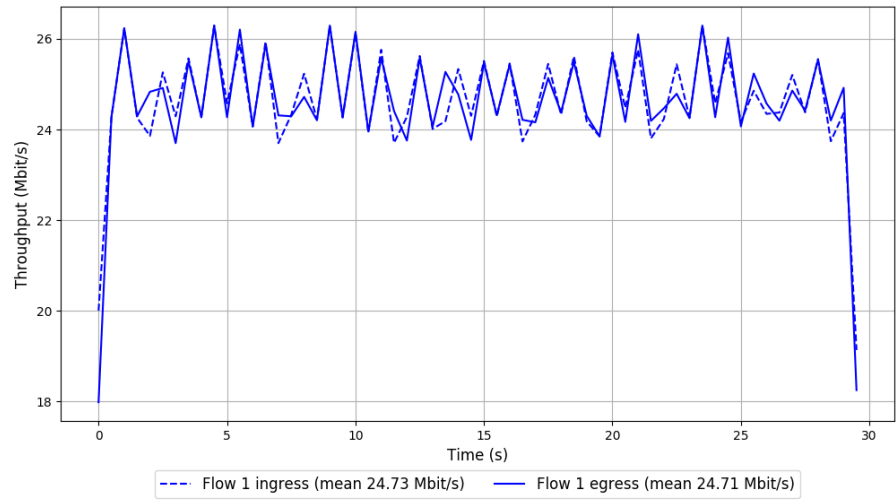


Run 5: Statistics of Sprout

Start at: 2018-01-01 22:56:28
End at: 2018-01-01 22:56:58
Local clock offset: -3.251 ms
Remote clock offset: -16.444 ms

Below is generated by plot.py at 2018-01-02 03:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.71 Mbit/s
95th percentile per-packet one-way delay: 42.073 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 24.71 Mbit/s
95th percentile per-packet one-way delay: 42.073 ms
Loss rate: 0.13%

Run 5: Report of Sprout — Data Link

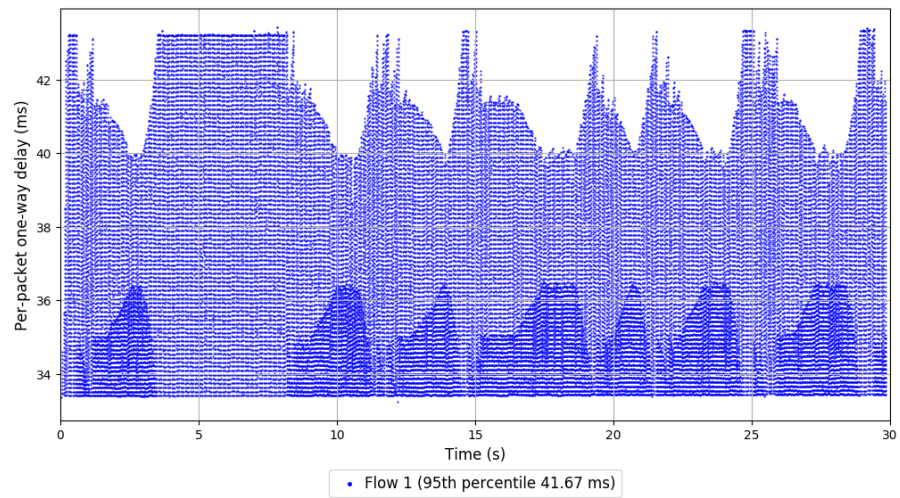
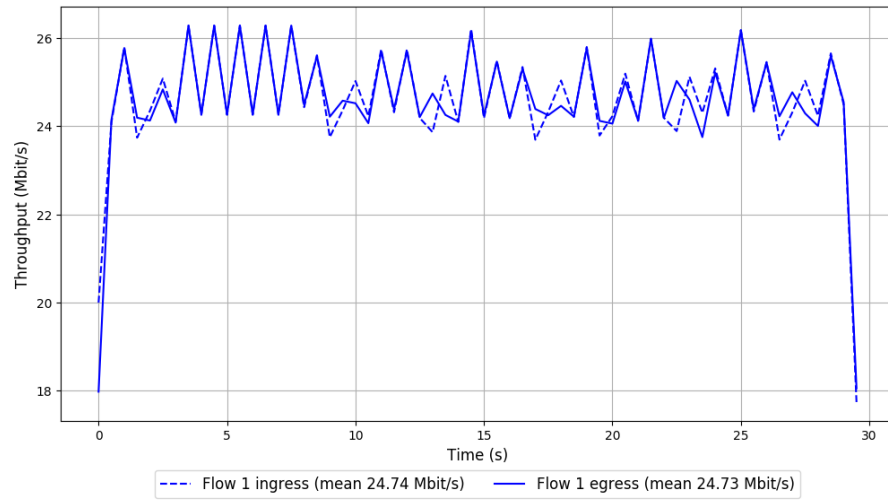


Run 6: Statistics of Sprout

Start at: 2018-01-01 23:13:43
End at: 2018-01-01 23:14:13
Local clock offset: -3.577 ms
Remote clock offset: -15.553 ms

Below is generated by plot.py at 2018-01-02 03:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.73 Mbit/s
95th percentile per-packet one-way delay: 41.667 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 24.73 Mbit/s
95th percentile per-packet one-way delay: 41.667 ms
Loss rate: 0.11%

Run 6: Report of Sprout — Data Link

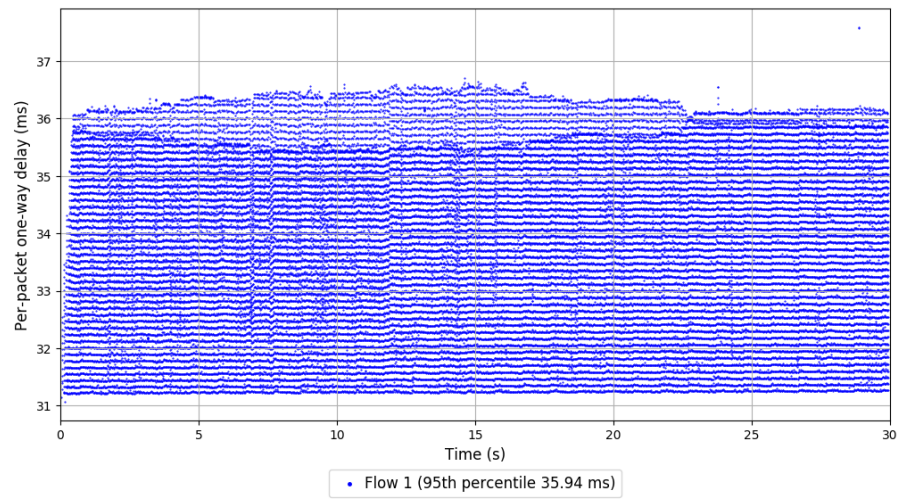
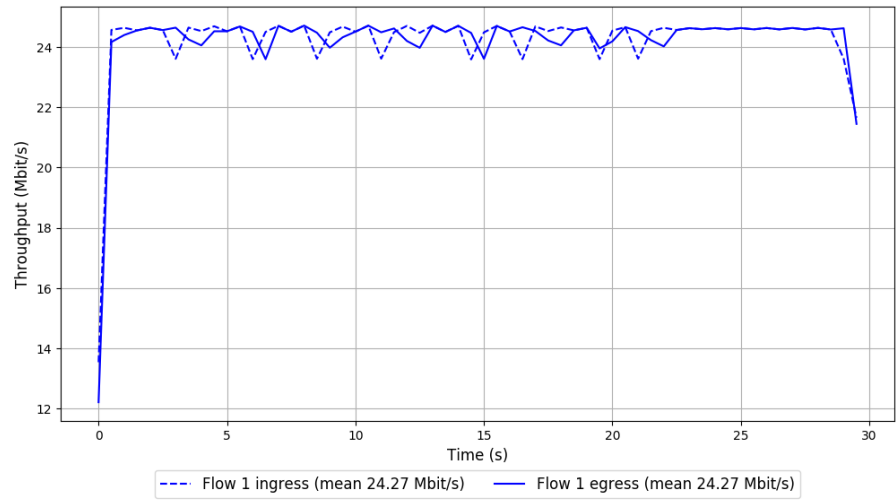


Run 7: Statistics of Sprout

Start at: 2018-01-01 23:30:54
End at: 2018-01-01 23:31:24
Local clock offset: -5.035 ms
Remote clock offset: -13.347 ms

Below is generated by plot.py at 2018-01-02 03:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.27 Mbit/s
95th percentile per-packet one-way delay: 35.943 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 24.27 Mbit/s
95th percentile per-packet one-way delay: 35.943 ms
Loss rate: 0.08%

Run 7: Report of Sprout — Data Link

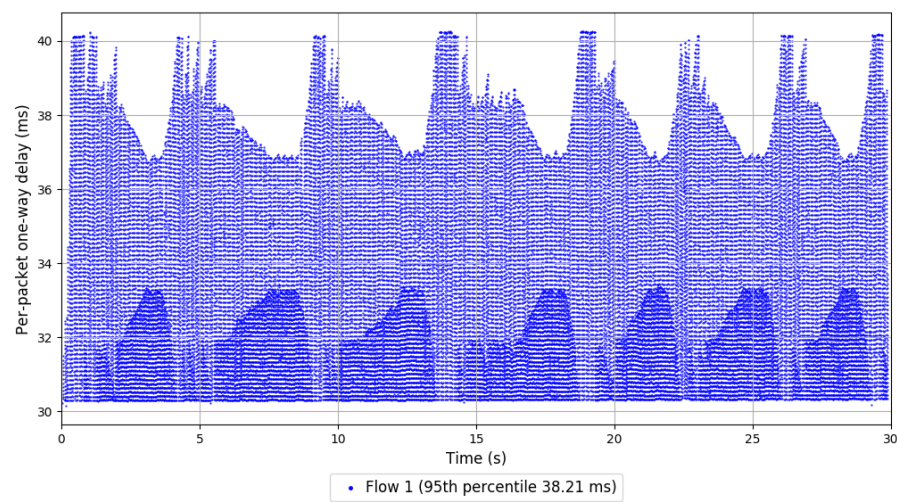
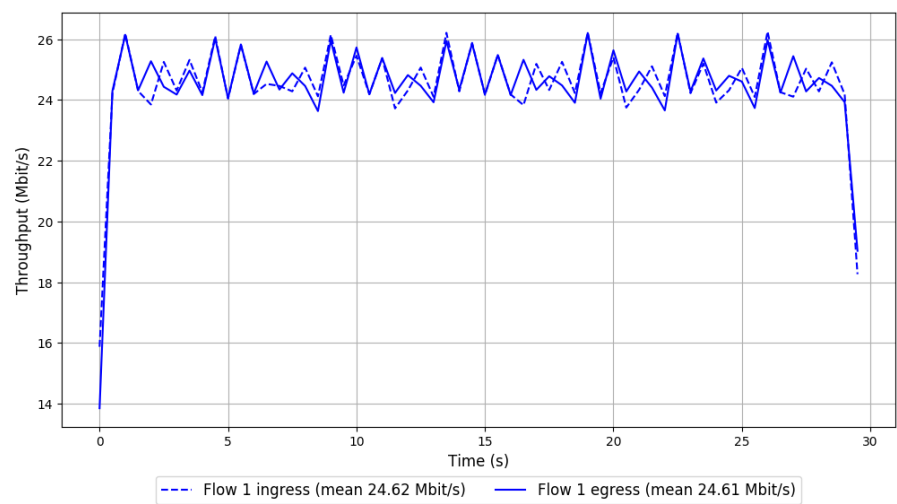


Run 8: Statistics of Sprout

Start at: 2018-01-01 23:48:13
End at: 2018-01-01 23:48:43
Local clock offset: -7.466 ms
Remote clock offset: -12.944 ms

Below is generated by plot.py at 2018-01-02 03:34:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.61 Mbit/s
95th percentile per-packet one-way delay: 38.213 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 24.61 Mbit/s
95th percentile per-packet one-way delay: 38.213 ms
Loss rate: 0.09%

Run 8: Report of Sprout — Data Link

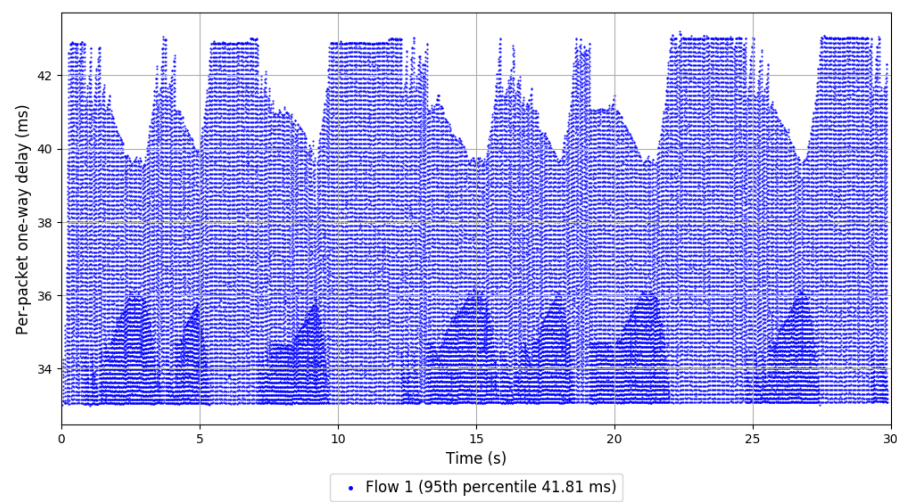
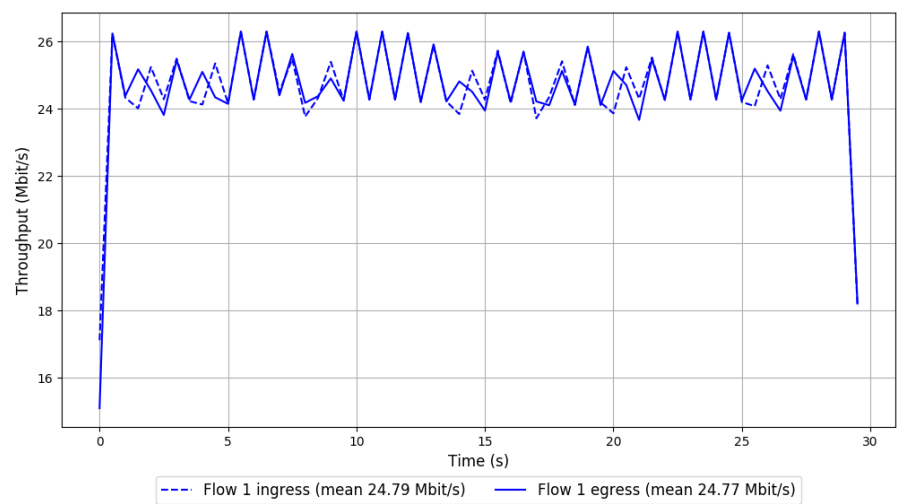


Run 9: Statistics of Sprout

Start at: 2018-01-02 00:05:32
End at: 2018-01-02 00:06:02
Local clock offset: -7.466 ms
Remote clock offset: -13.169 ms

Below is generated by plot.py at 2018-01-02 03:34:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.77 Mbit/s
95th percentile per-packet one-way delay: 41.814 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 24.77 Mbit/s
95th percentile per-packet one-way delay: 41.814 ms
Loss rate: 0.13%

Run 9: Report of Sprout — Data Link

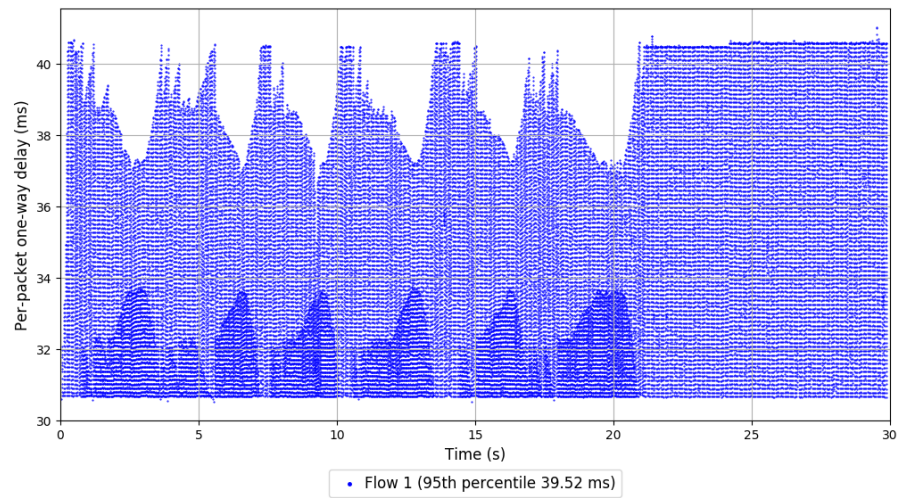
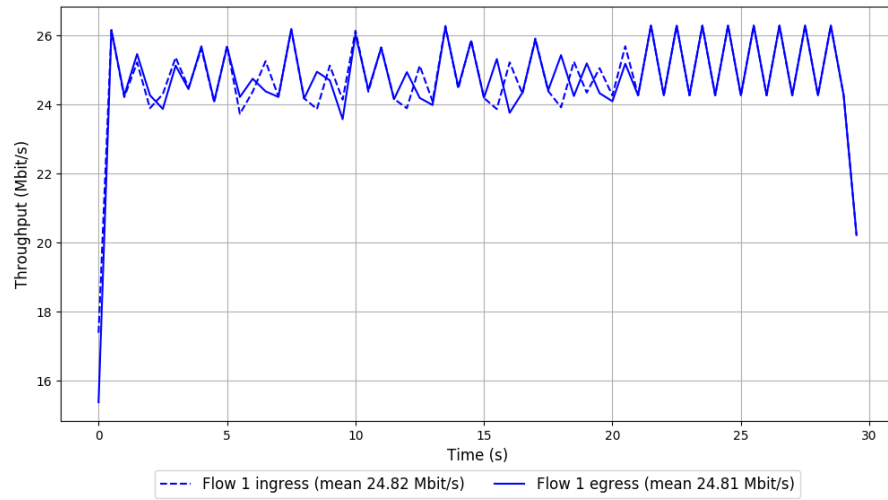


Run 10: Statistics of Sprout

Start at: 2018-01-02 00:22:51
End at: 2018-01-02 00:23:21
Local clock offset: -7.969 ms
Remote clock offset: -9.989 ms

Below is generated by plot.py at 2018-01-02 03:34:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.81 Mbit/s
95th percentile per-packet one-way delay: 39.521 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 24.81 Mbit/s
95th percentile per-packet one-way delay: 39.521 ms
Loss rate: 0.14%

Run 10: Report of Sprout — Data Link

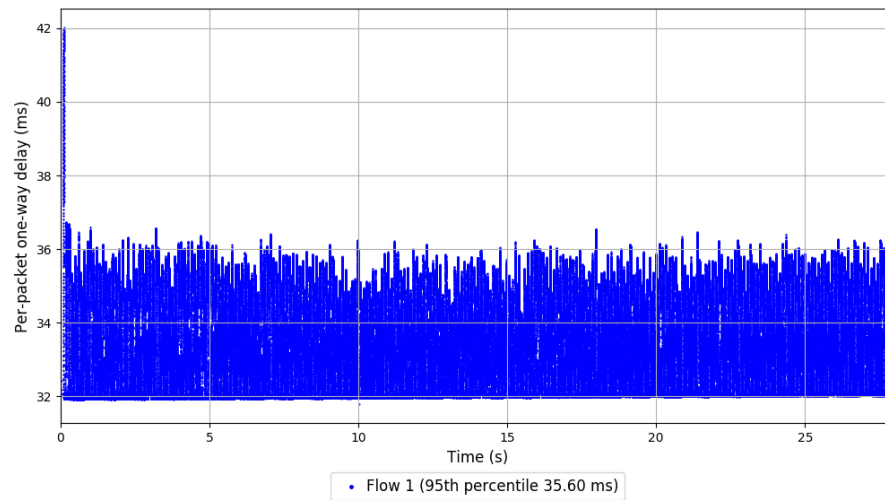
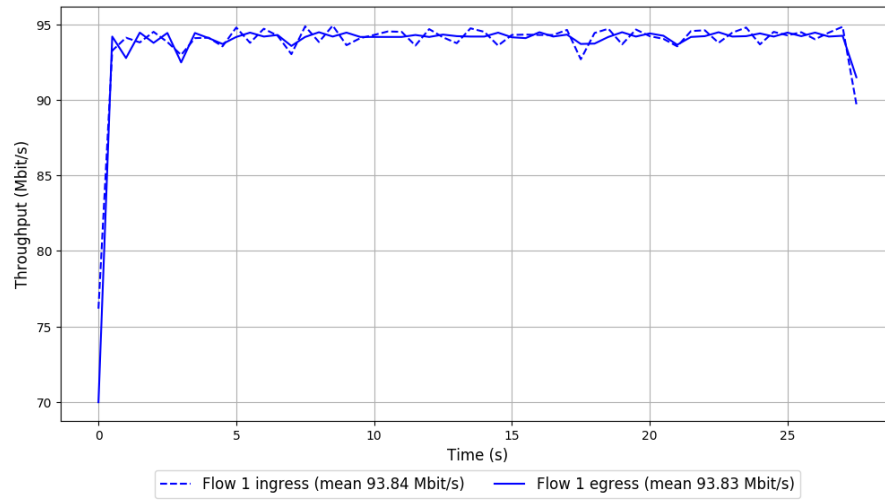


Run 1: Statistics of TaoVA-100x

Start at: 2018-01-01 21:43:23
End at: 2018-01-01 21:43:53
Local clock offset: -4.64 ms
Remote clock offset: -19.309 ms

Below is generated by plot.py at 2018-01-02 03:36:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.83 Mbit/s
95th percentile per-packet one-way delay: 35.596 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 93.83 Mbit/s
95th percentile per-packet one-way delay: 35.596 ms
Loss rate: 0.10%

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

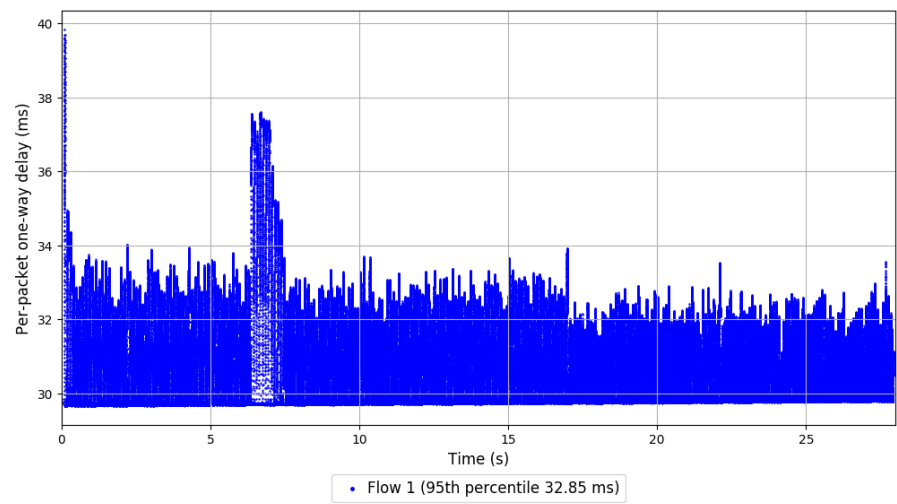
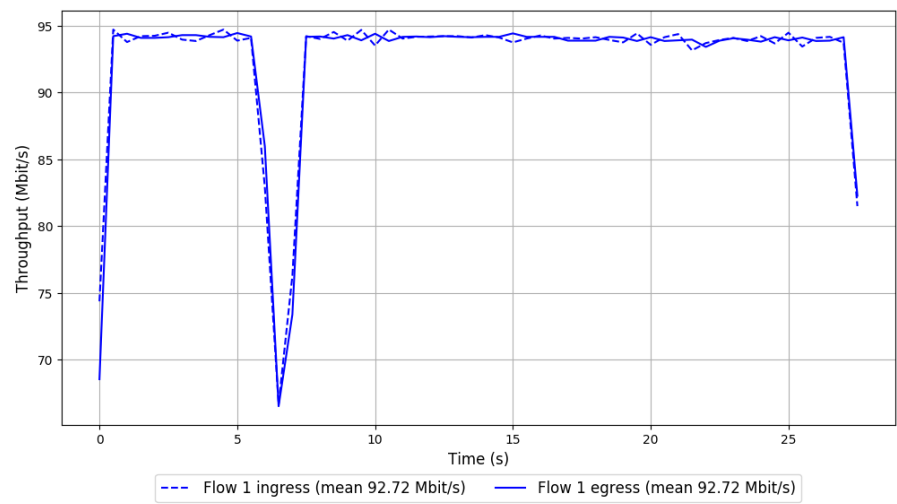


Run 2: Statistics of TaoVA-100x

Start at: 2018-01-01 22:01:07
End at: 2018-01-01 22:01:37
Local clock offset: -5.659 ms
Remote clock offset: -18.533 ms

Below is generated by plot.py at 2018-01-02 03:36:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.72 Mbit/s
95th percentile per-packet one-way delay: 32.853 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 92.72 Mbit/s
95th percentile per-packet one-way delay: 32.853 ms
Loss rate: 0.09%

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

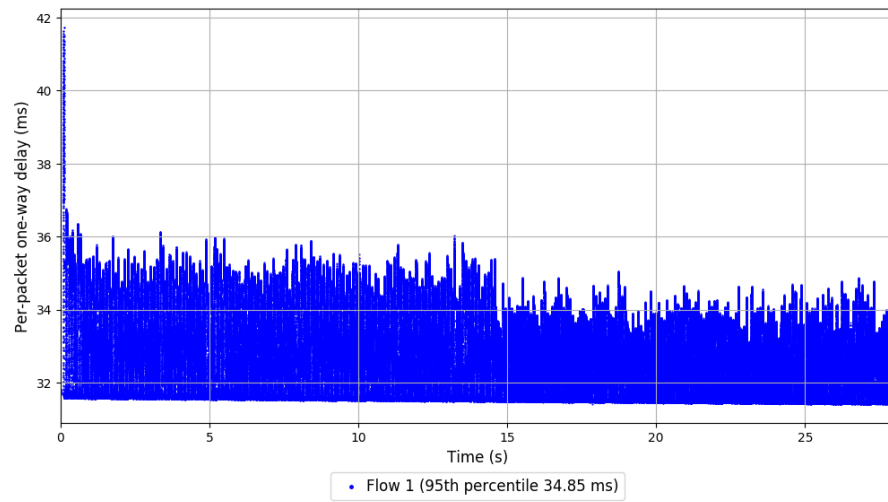
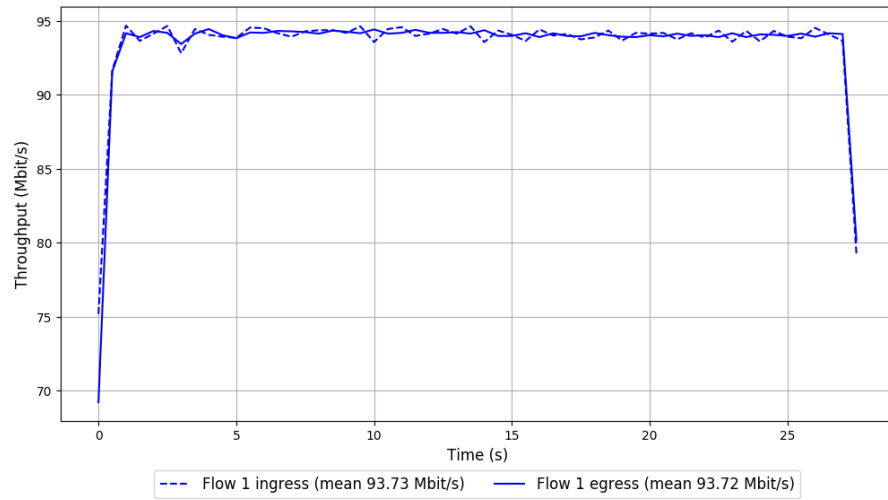


Run 3: Statistics of TaoVA-100x

Start at: 2018-01-01 22:18:35
End at: 2018-01-01 22:19:05
Local clock offset: -4.094 ms
Remote clock offset: -17.981 ms

Below is generated by plot.py at 2018-01-02 03:36:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.72 Mbit/s
95th percentile per-packet one-way delay: 34.851 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 93.72 Mbit/s
95th percentile per-packet one-way delay: 34.851 ms
Loss rate: 0.09%

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

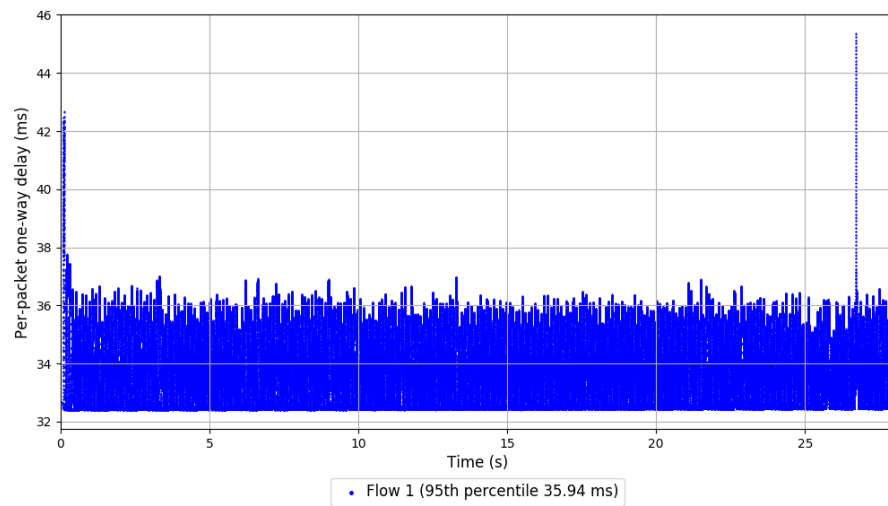
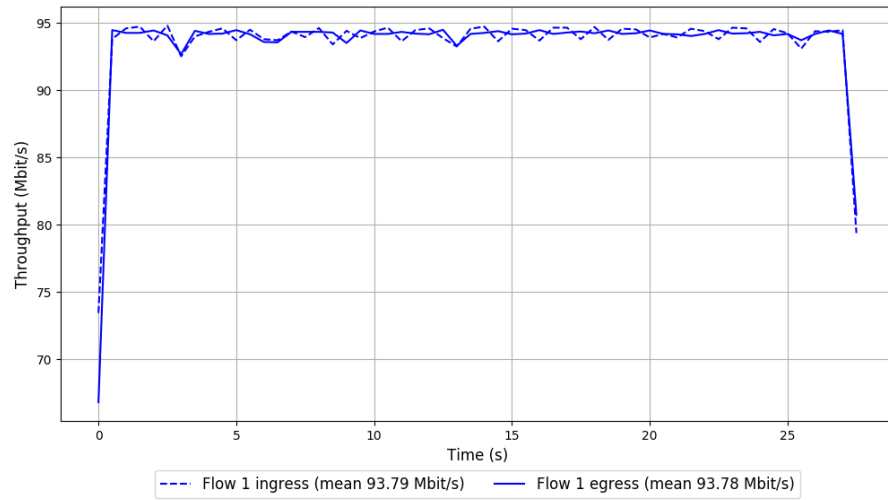


Run 4: Statistics of TaoVA-100x

Start at: 2018-01-01 22:35:42
End at: 2018-01-01 22:36:12
Local clock offset: -1.186 ms
Remote clock offset: -17.501 ms

Below is generated by plot.py at 2018-01-02 03:36:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.78 Mbit/s
95th percentile per-packet one-way delay: 35.938 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 93.78 Mbit/s
95th percentile per-packet one-way delay: 35.938 ms
Loss rate: 0.10%

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

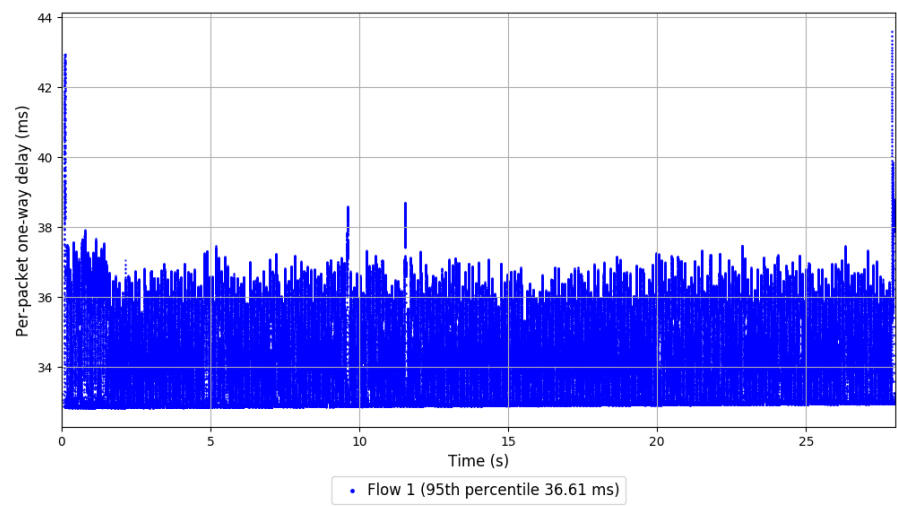
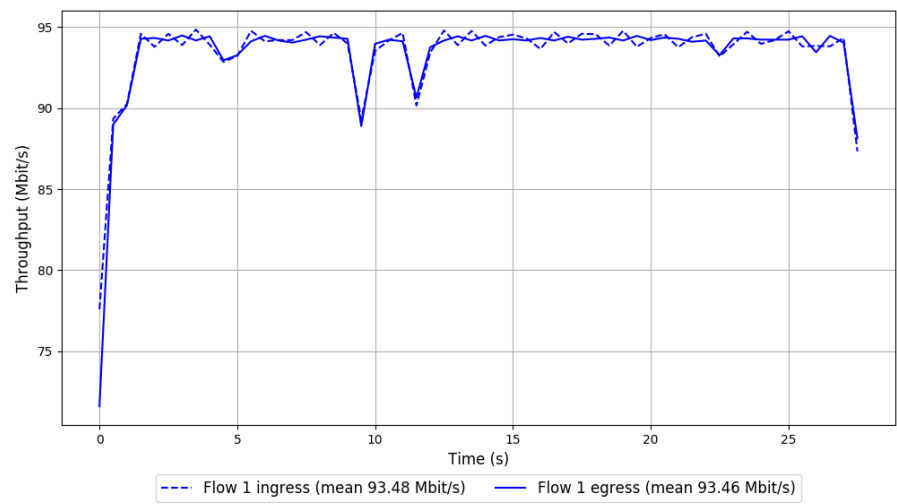


Run 5: Statistics of TaoVA-100x

Start at: 2018-01-01 22:52:56
End at: 2018-01-01 22:53:26
Local clock offset: -3.721 ms
Remote clock offset: -16.866 ms

Below is generated by plot.py at 2018-01-02 03:36:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.46 Mbit/s
95th percentile per-packet one-way delay: 36.607 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 93.46 Mbit/s
95th percentile per-packet one-way delay: 36.607 ms
Loss rate: 0.11%

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

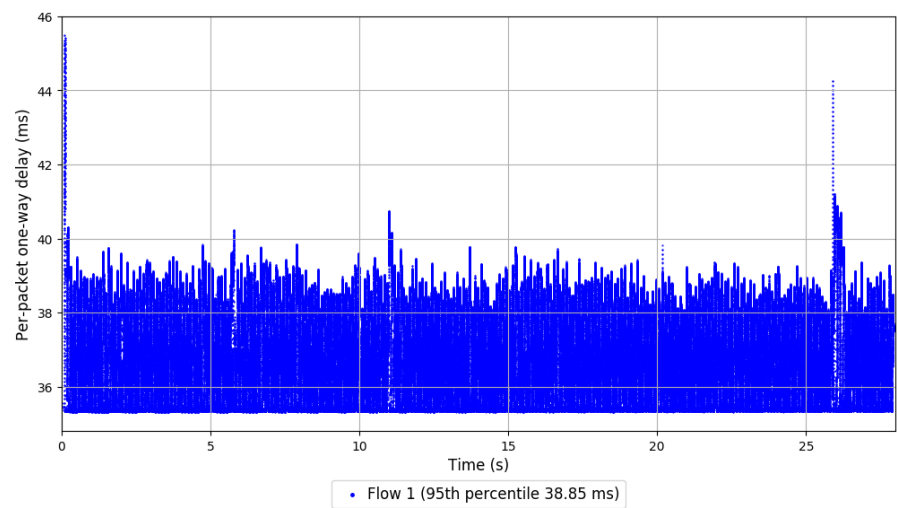
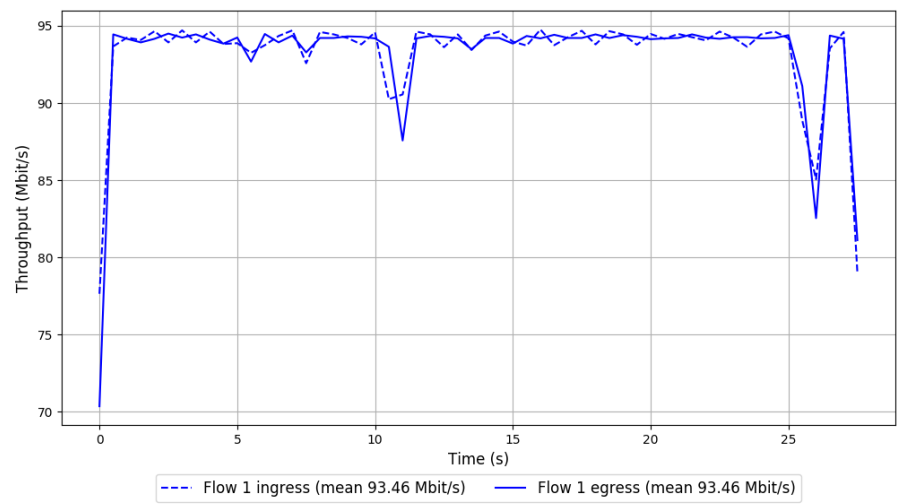


Run 6: Statistics of TaoVA-100x

Start at: 2018-01-01 23:10:08
End at: 2018-01-01 23:10:38
Local clock offset: -3.1 ms
Remote clock offset: -17.212 ms

Below is generated by plot.py at 2018-01-02 03:36:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.46 Mbit/s
95th percentile per-packet one-way delay: 38.853 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 93.46 Mbit/s
95th percentile per-packet one-way delay: 38.853 ms
Loss rate: 0.09%

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

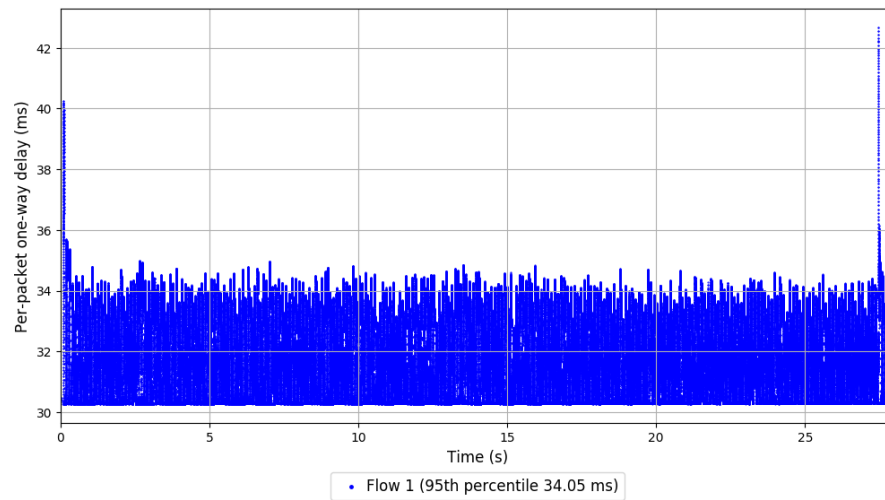
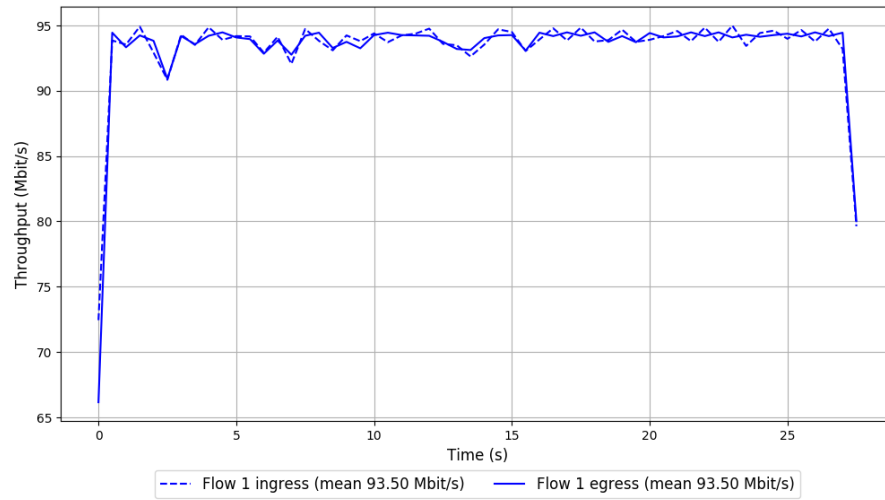


Run 7: Statistics of TaoVA-100x

Start at: 2018-01-01 23:27:23
End at: 2018-01-01 23:27:53
Local clock offset: -6.739 ms
Remote clock offset: -14.352 ms

Below is generated by plot.py at 2018-01-02 03:36:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.50 Mbit/s
95th percentile per-packet one-way delay: 34.051 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 93.50 Mbit/s
95th percentile per-packet one-way delay: 34.051 ms
Loss rate: 0.09%

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

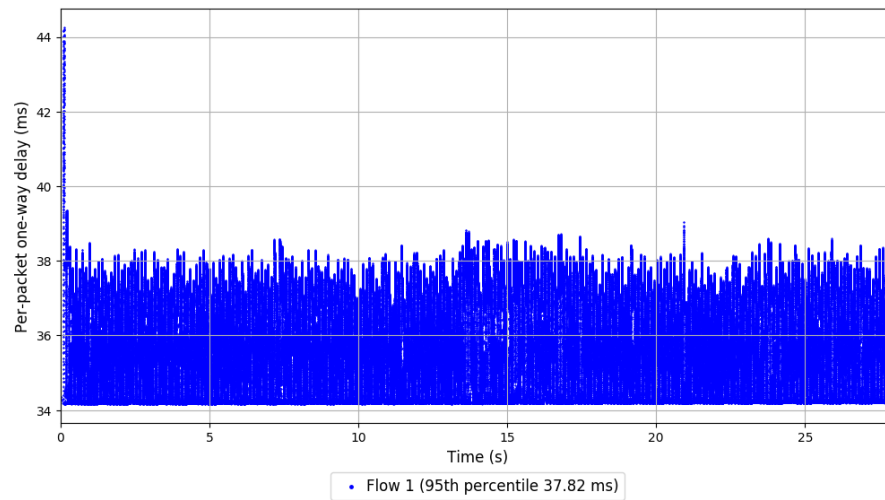
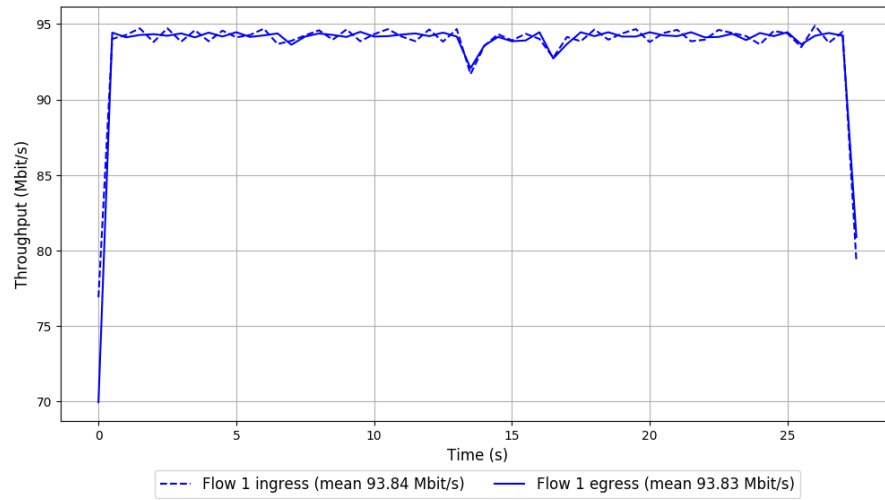


Run 8: Statistics of TaoVA-100x

Start at: 2018-01-01 23:44:38
End at: 2018-01-01 23:45:08
Local clock offset: -4.178 ms
Remote clock offset: -13.823 ms

Below is generated by plot.py at 2018-01-02 03:36:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.83 Mbit/s
95th percentile per-packet one-way delay: 37.818 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 93.83 Mbit/s
95th percentile per-packet one-way delay: 37.818 ms
Loss rate: 0.10%

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

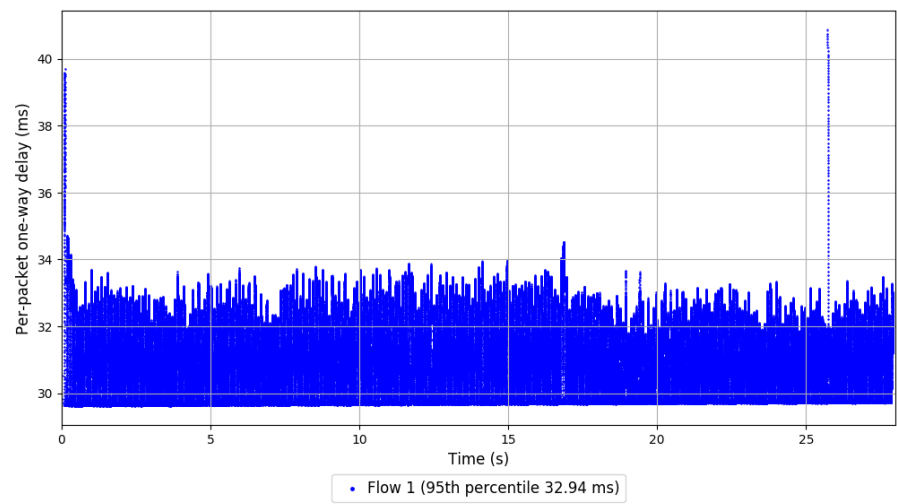
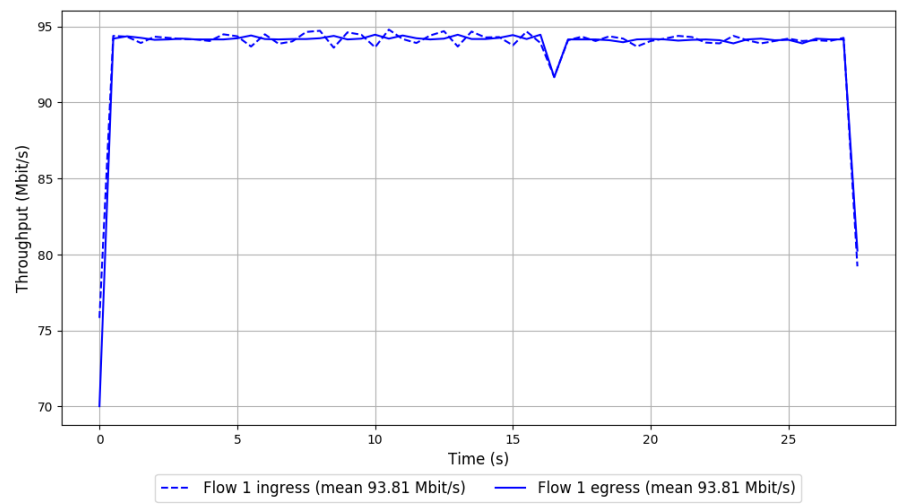


Run 9: Statistics of TaoVA-100x

Start at: 2018-01-02 00:02:01
End at: 2018-01-02 00:02:31
Local clock offset: -8.824 ms
Remote clock offset: -11.547 ms

Below is generated by plot.py at 2018-01-02 03:38:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.81 Mbit/s
95th percentile per-packet one-way delay: 32.935 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 93.81 Mbit/s
95th percentile per-packet one-way delay: 32.935 ms
Loss rate: 0.09%

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

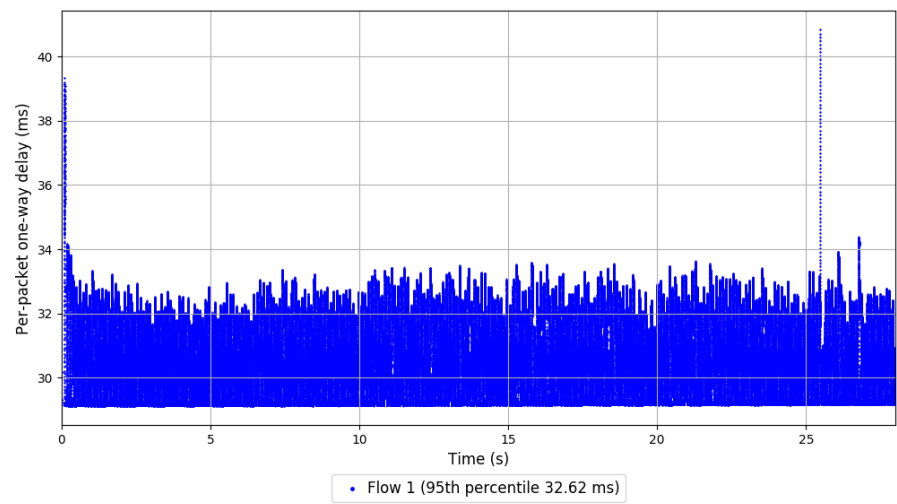
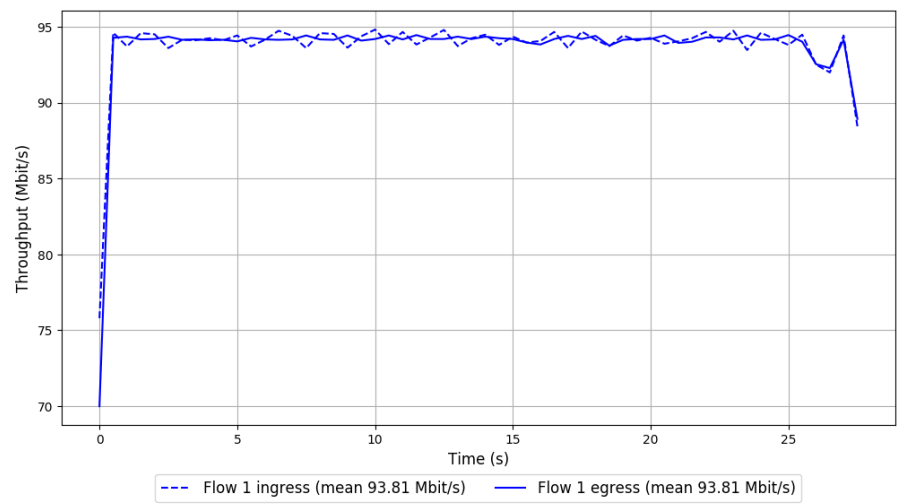


Run 10: Statistics of TaoVA-100x

Start at: 2018-01-02 00:19:17
End at: 2018-01-02 00:19:47
Local clock offset: -9.199 ms
Remote clock offset: -9.811 ms

Below is generated by plot.py at 2018-01-02 03:38:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.81 Mbit/s
95th percentile per-packet one-way delay: 32.625 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 93.81 Mbit/s
95th percentile per-packet one-way delay: 32.625 ms
Loss rate: 0.10%

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



Run 1: Statistics of TCP Vegas

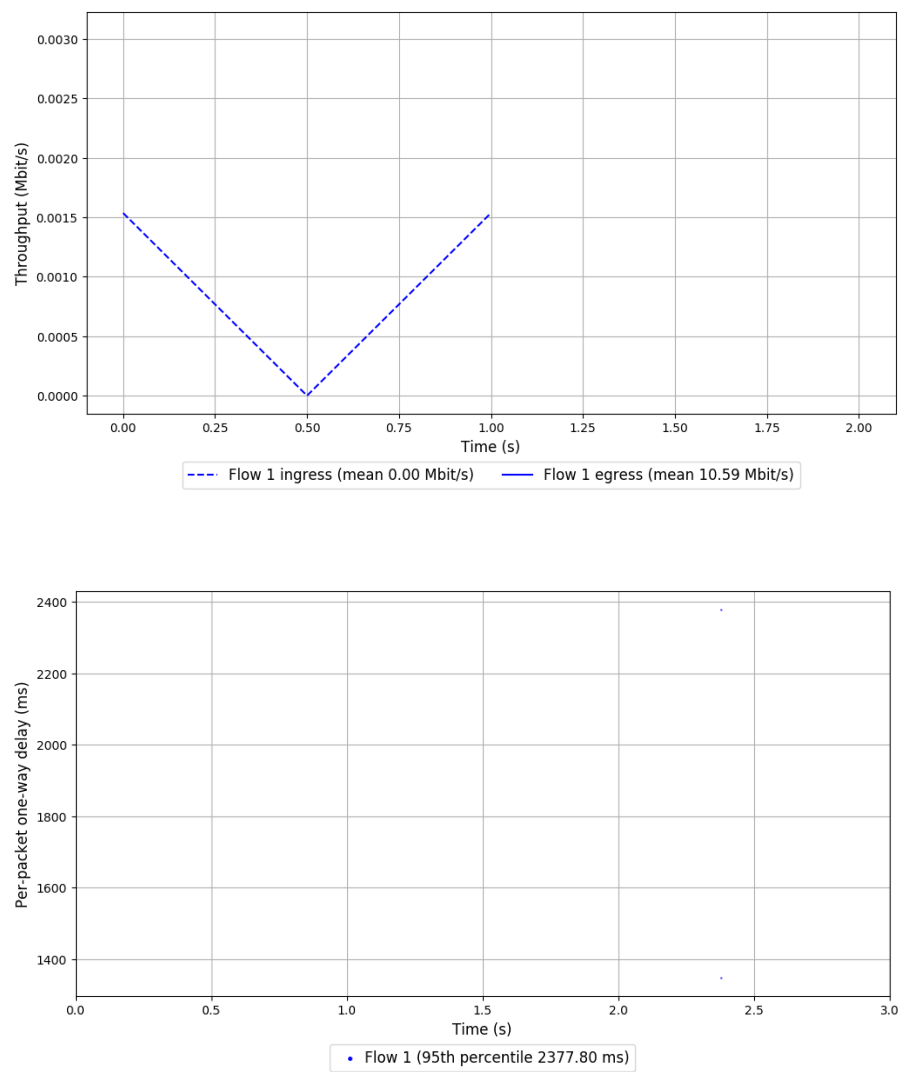
Start at: 2018-01-01 21:39:52

End at: 2018-01-01 21:40:22

Local clock offset: -4.053 ms

Remote clock offset: -18.165 ms

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

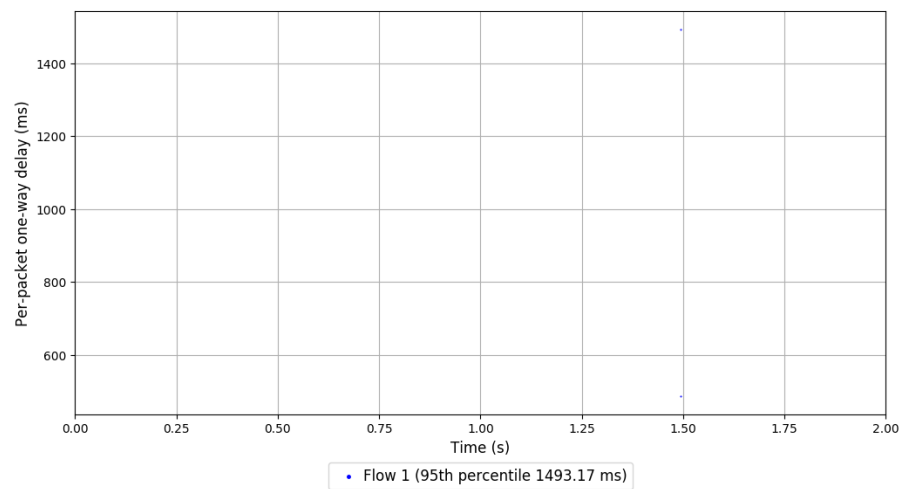
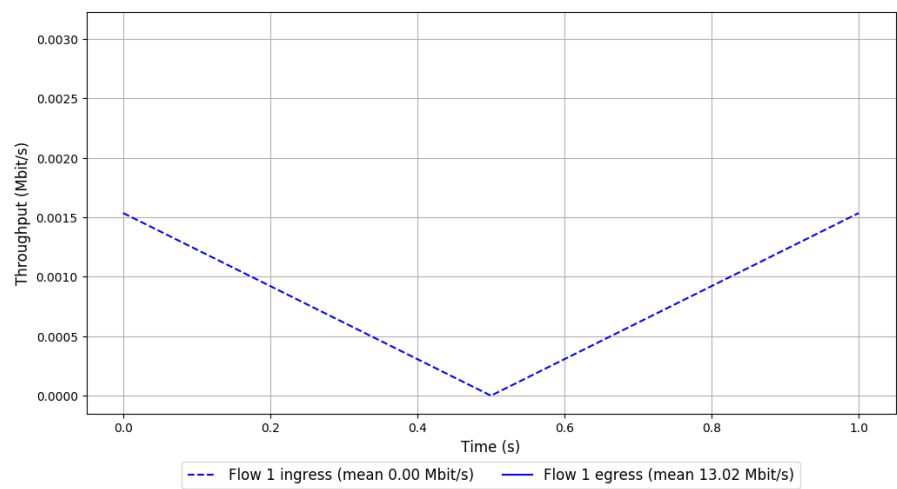
Start at: 2018-01-01 21:57:42

End at: 2018-01-01 21:58:12

Local clock offset: -2.426 ms

Remote clock offset: -19.856 ms

Run 2: Report of TCP Vegas — Data Link

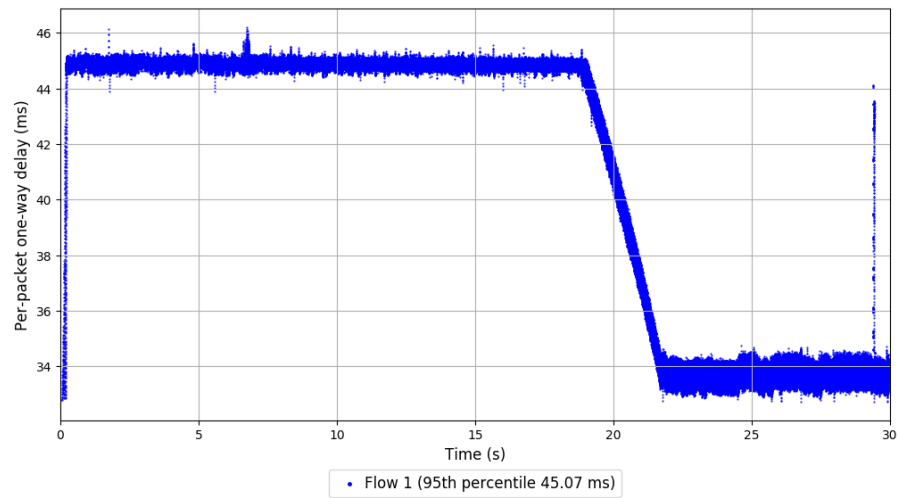
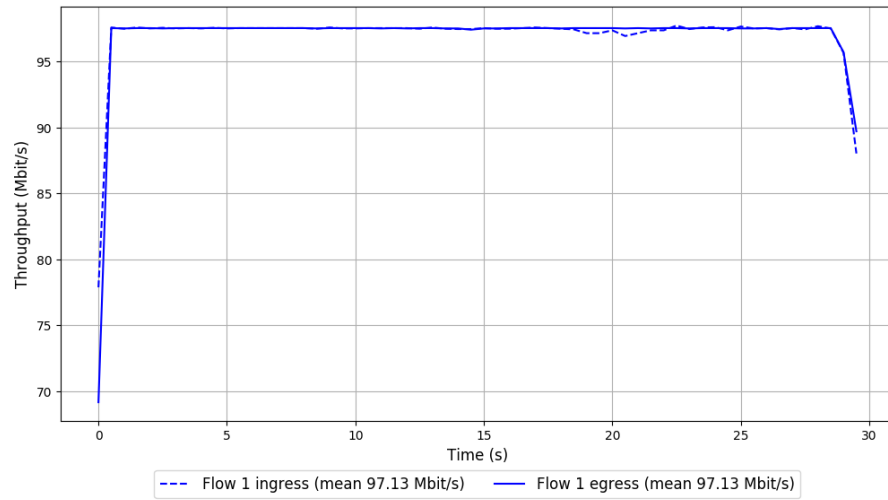


Run 3: Statistics of TCP Vegas

Start at: 2018-01-01 22:14:57
End at: 2018-01-01 22:15:27
Local clock offset: -4.308 ms
Remote clock offset: -18.808 ms

Below is generated by plot.py at 2018-01-02 03:38:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 45.071 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 45.071 ms
Loss rate: 0.08%

Run 3: Report of TCP Vegas — Data Link

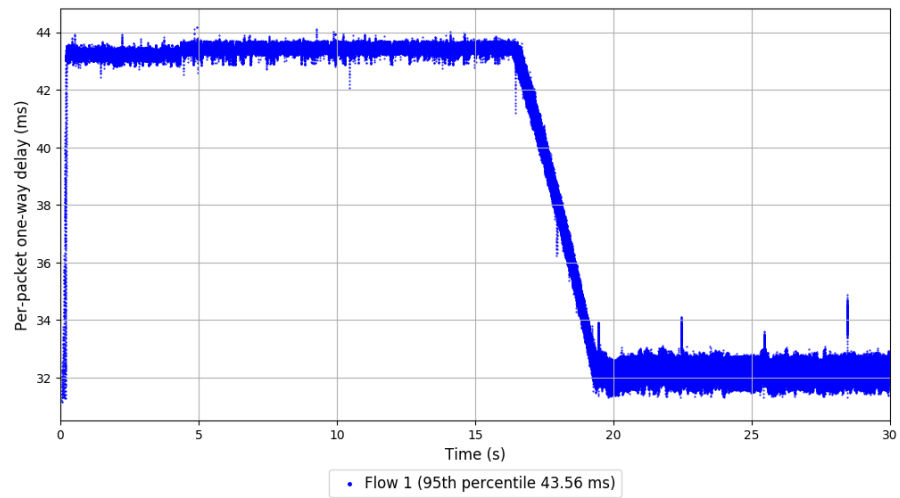
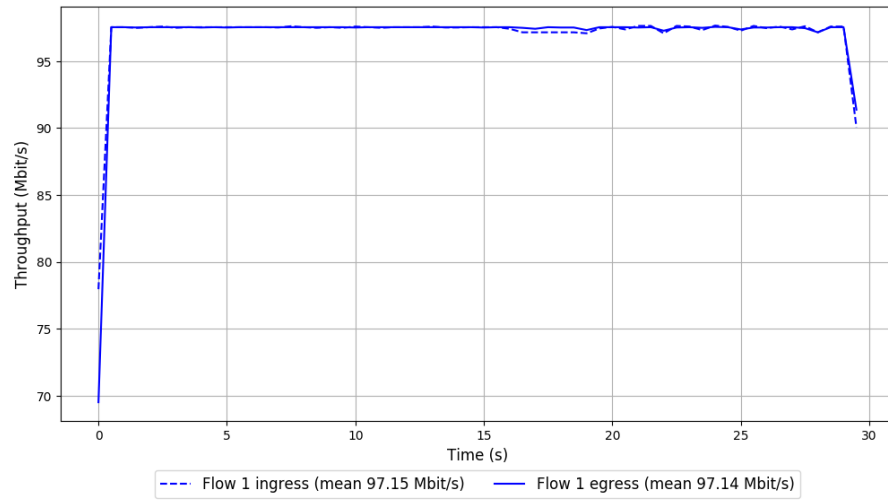


Run 4: Statistics of TCP Vegas

Start at: 2018-01-01 22:32:11
End at: 2018-01-01 22:32:41
Local clock offset: -1.675 ms
Remote clock offset: -17.012 ms

Below is generated by plot.py at 2018-01-02 03:38:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.14 Mbit/s
95th percentile per-packet one-way delay: 43.562 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 97.14 Mbit/s
95th percentile per-packet one-way delay: 43.562 ms
Loss rate: 0.09%

Run 4: Report of TCP Vegas — Data Link

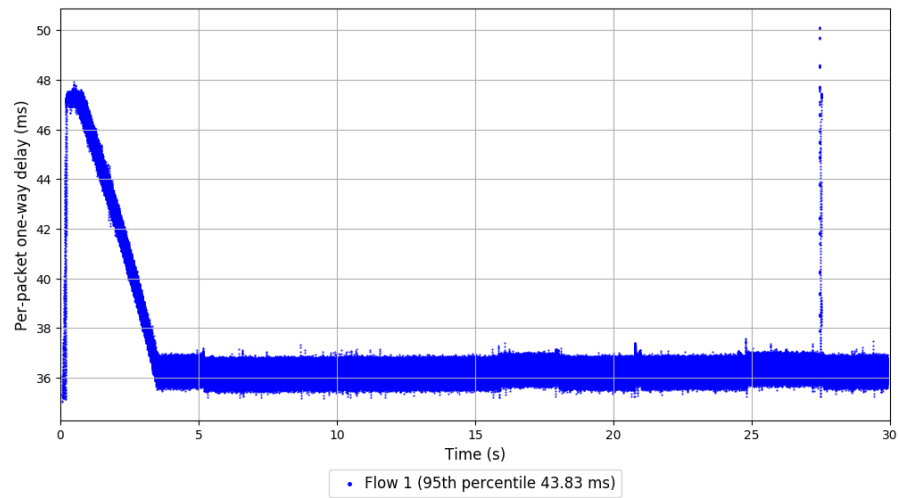
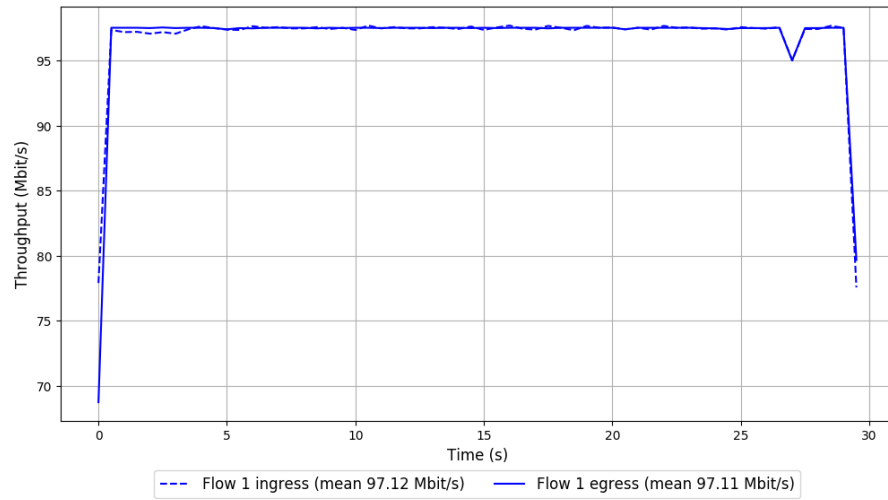


Run 5: Statistics of TCP Vegas

Start at: 2018-01-01 22:49:23
End at: 2018-01-01 22:49:53
Local clock offset: -1.854 ms
Remote clock offset: -18.228 ms

Below is generated by plot.py at 2018-01-02 03:38:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 43.832 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 43.832 ms
Loss rate: 0.09%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

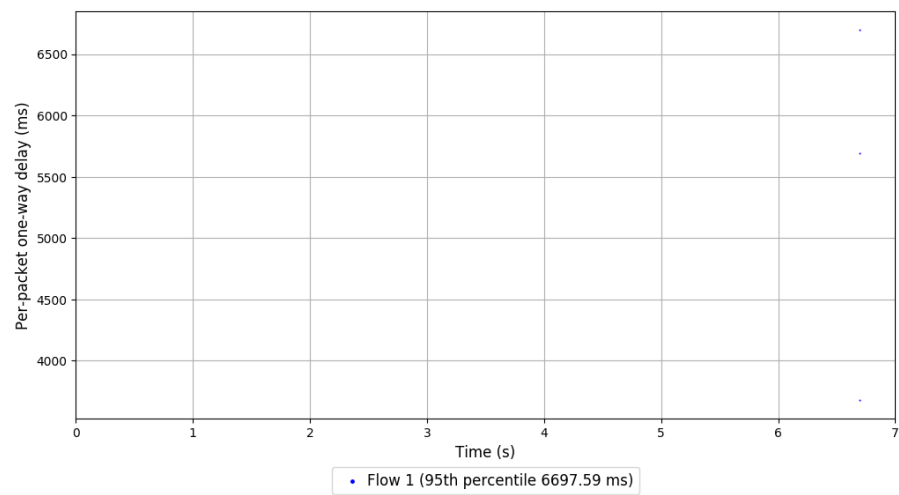
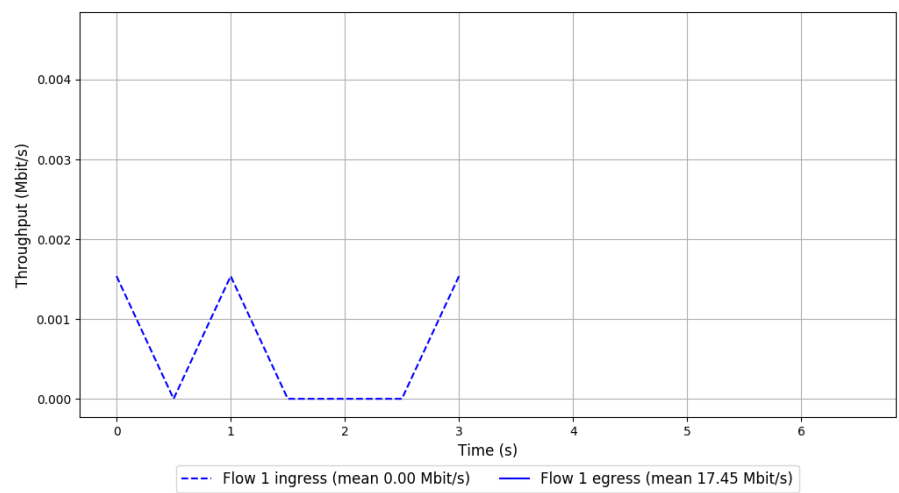
Start at: 2018-01-01 23:06:42

End at: 2018-01-01 23:07:12

Local clock offset: -6.025 ms

Remote clock offset: -15.208 ms

Run 6: Report of TCP Vegas — Data Link

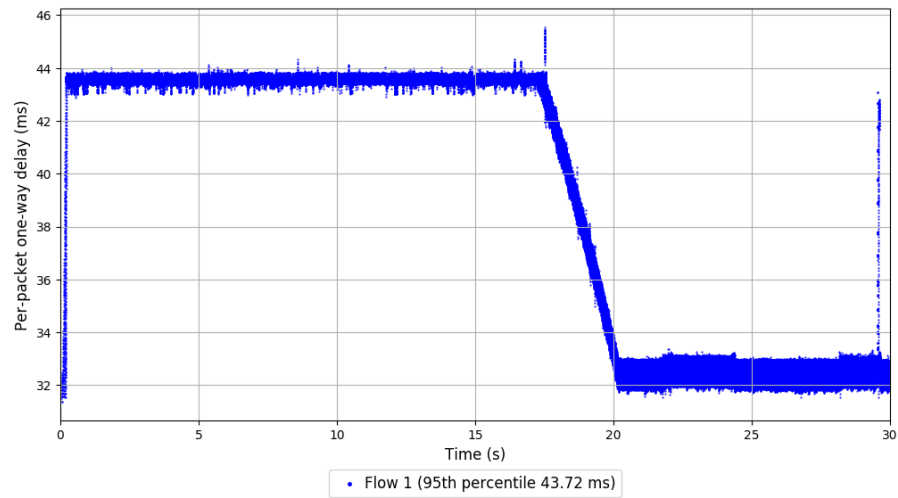
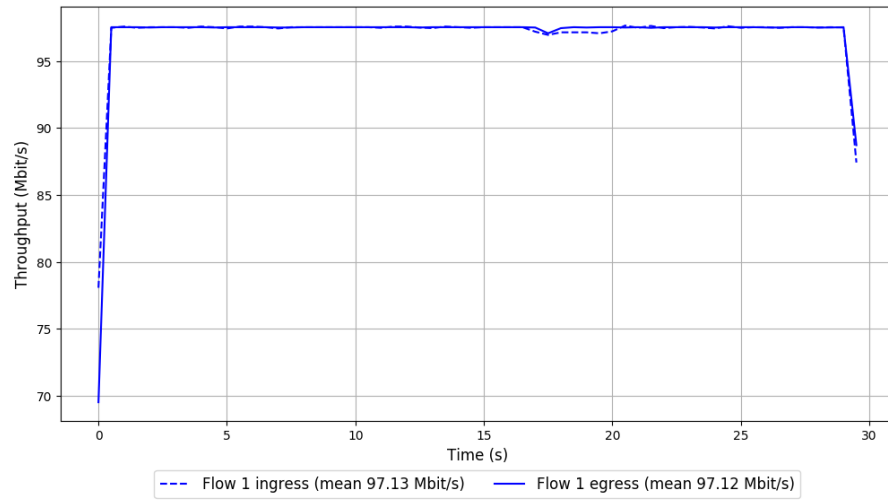


Run 7: Statistics of TCP Vegas

Start at: 2018-01-01 23:23:52
End at: 2018-01-01 23:24:22
Local clock offset: -5.531 ms
Remote clock offset: -14.479 ms

Below is generated by plot.py at 2018-01-02 03:38:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.12 Mbit/s
95th percentile per-packet one-way delay: 43.718 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 97.12 Mbit/s
95th percentile per-packet one-way delay: 43.718 ms
Loss rate: 0.09%

Run 7: Report of TCP Vegas — Data Link

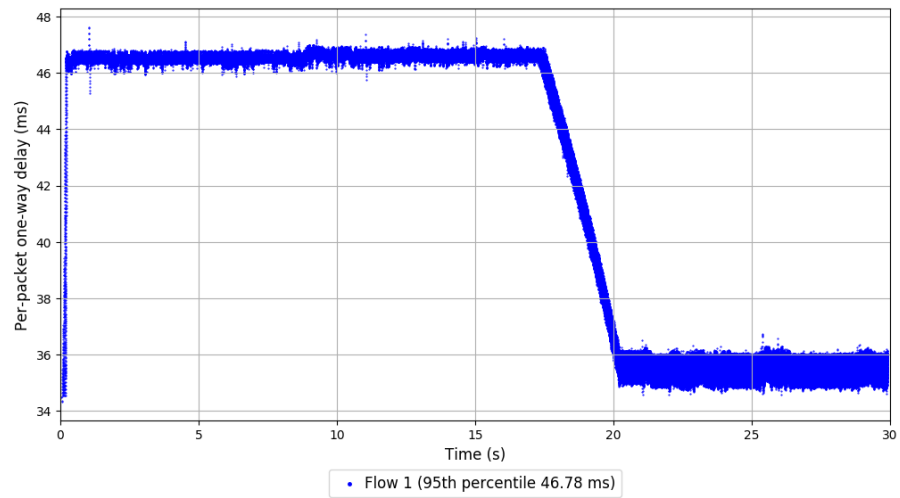
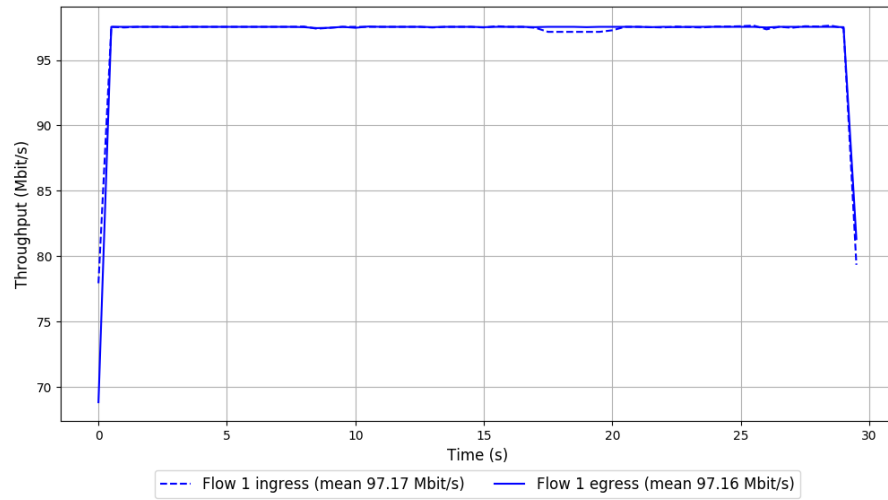


Run 8: Statistics of TCP Vegas

Start at: 2018-01-01 23:41:06
End at: 2018-01-01 23:41:36
Local clock offset: -3.309 ms
Remote clock offset: -13.608 ms

Below is generated by plot.py at 2018-01-02 03:38:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: 46.777 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: 46.777 ms
Loss rate: 0.09%

Run 8: Report of TCP Vegas — Data Link

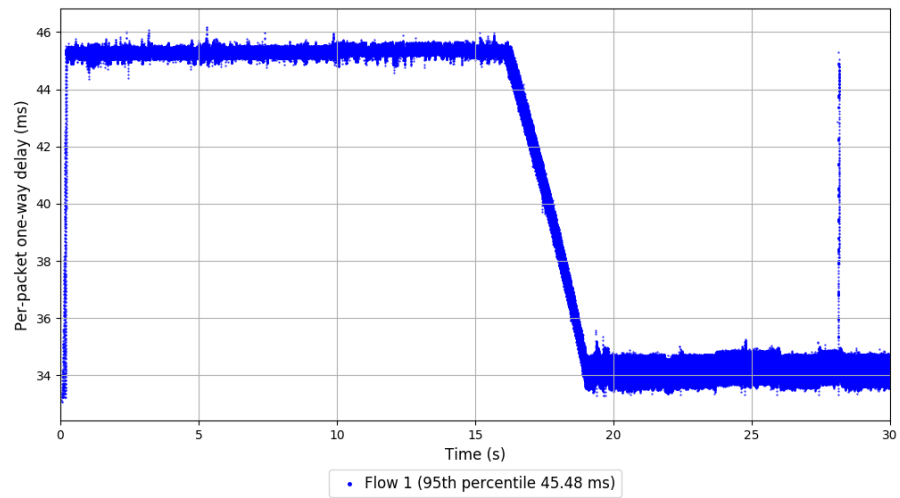
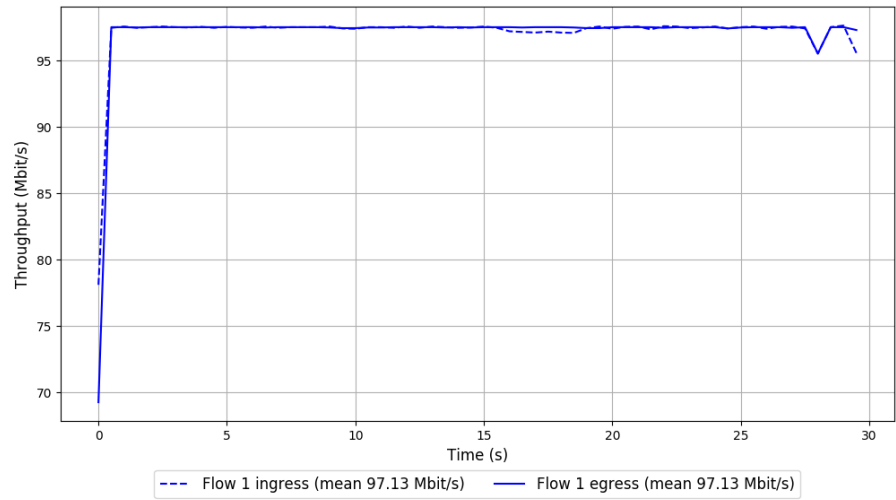


Run 9: Statistics of TCP Vegas

Start at: 2018-01-01 23:58:30
End at: 2018-01-01 23:59:00
Local clock offset: -5.829 ms
Remote clock offset: -12.853 ms

Below is generated by plot.py at 2018-01-02 03:38:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 45.482 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 45.482 ms
Loss rate: 0.09%

Run 9: Report of TCP Vegas — Data Link

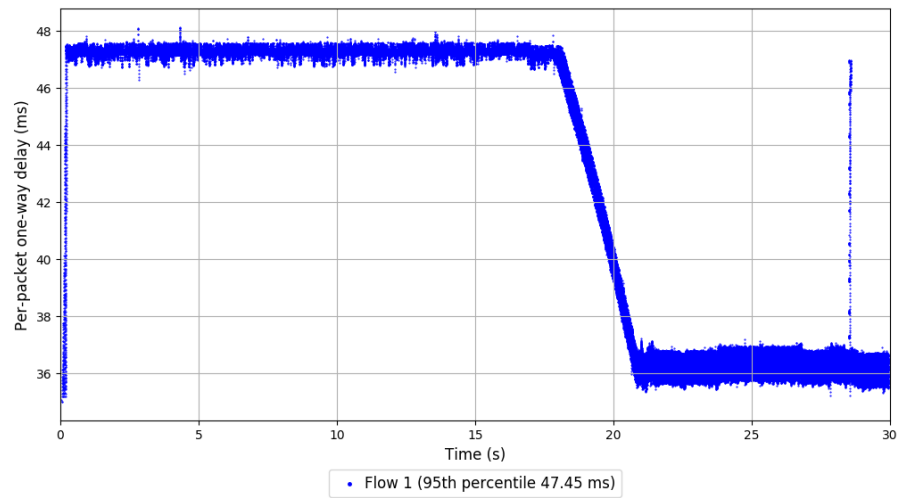
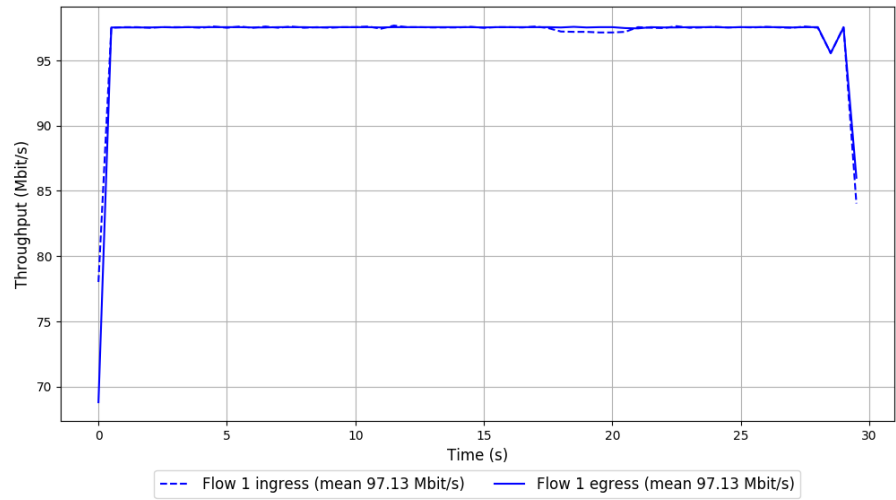


Run 10: Statistics of TCP Vegas

Start at: 2018-01-02 00:15:46
End at: 2018-01-02 00:16:16
Local clock offset: -6.415 ms
Remote clock offset: -13.448 ms

Below is generated by plot.py at 2018-01-02 03:39:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 47.446 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 47.446 ms
Loss rate: 0.09%

Run 10: Report of TCP Vegas — Data Link

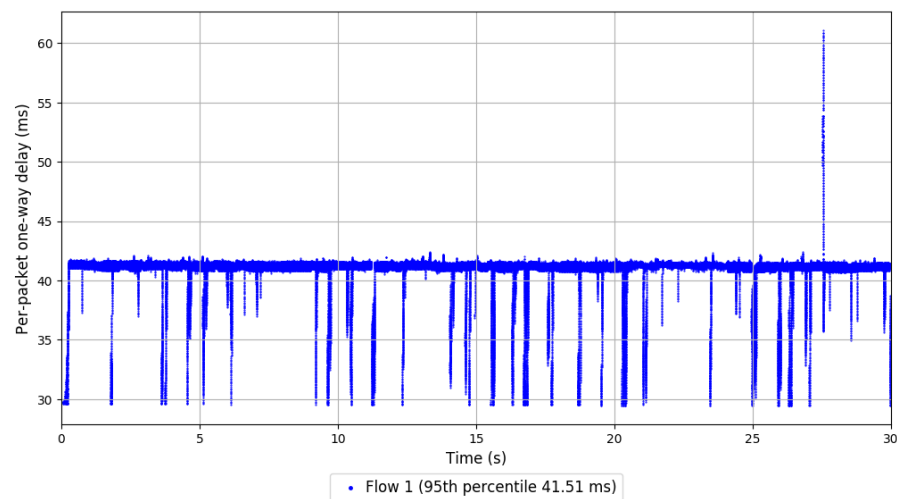
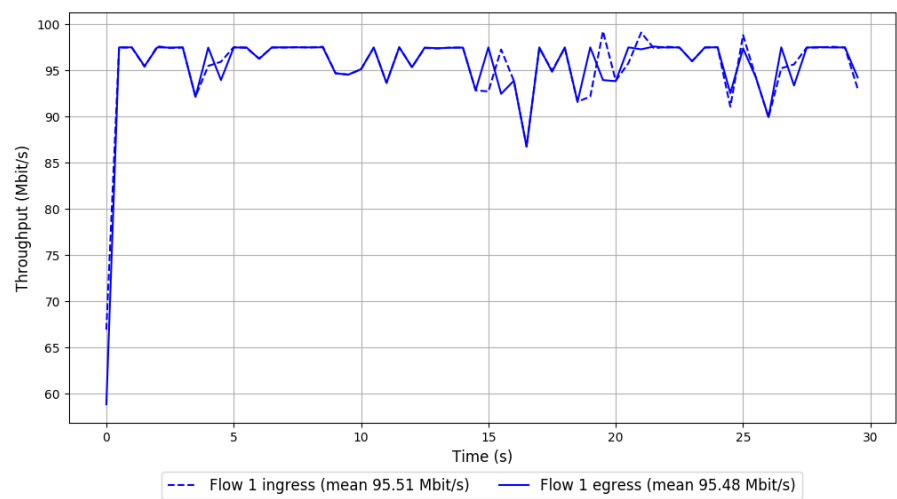


Run 1: Statistics of Verus

Start at: 2018-01-01 21:44:38
End at: 2018-01-01 21:45:08
Local clock offset: -7.177 ms
Remote clock offset: -19.575 ms

Below is generated by plot.py at 2018-01-02 03:39:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.48 Mbit/s
95th percentile per-packet one-way delay: 41.512 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 95.48 Mbit/s
95th percentile per-packet one-way delay: 41.512 ms
Loss rate: 0.12%

Run 1: Report of Verus — Data Link

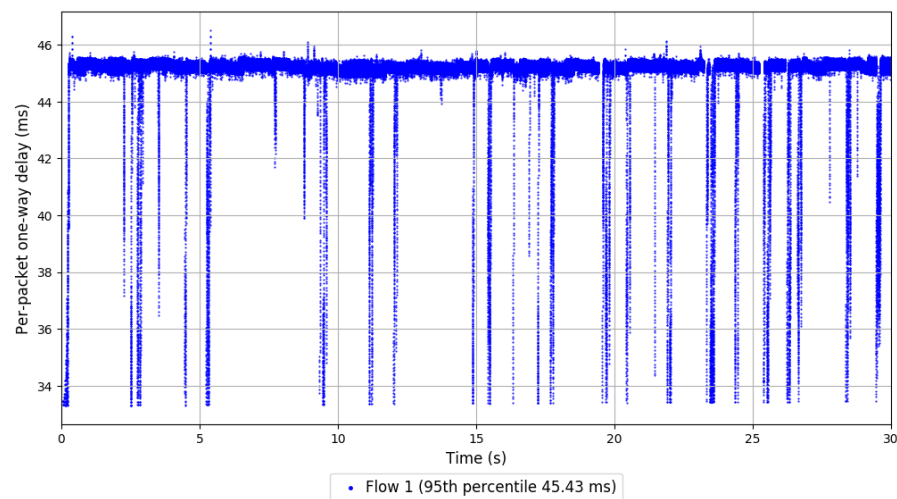
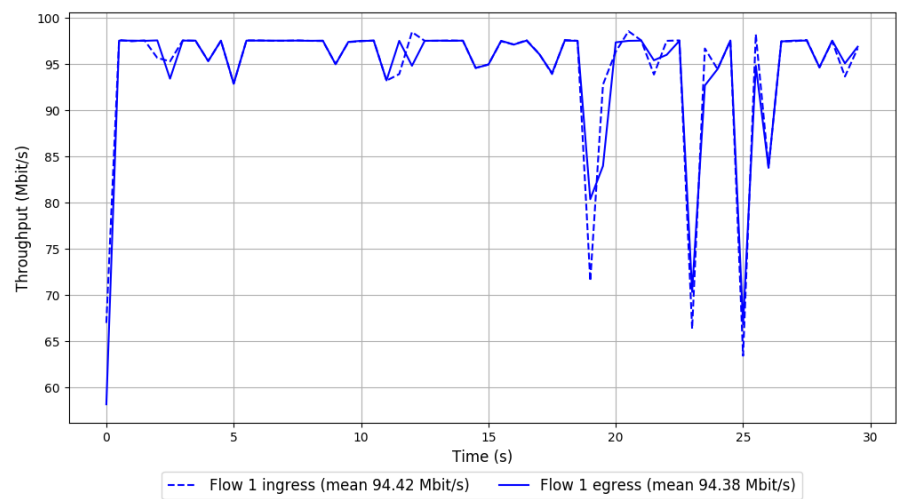


Run 2: Statistics of Verus

Start at: 2018-01-01 22:02:22
End at: 2018-01-01 22:02:52
Local clock offset: -2.545 ms
Remote clock offset: -18.707 ms

Below is generated by plot.py at 2018-01-02 03:39:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.38 Mbit/s
95th percentile per-packet one-way delay: 45.433 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 94.38 Mbit/s
95th percentile per-packet one-way delay: 45.433 ms
Loss rate: 0.13%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

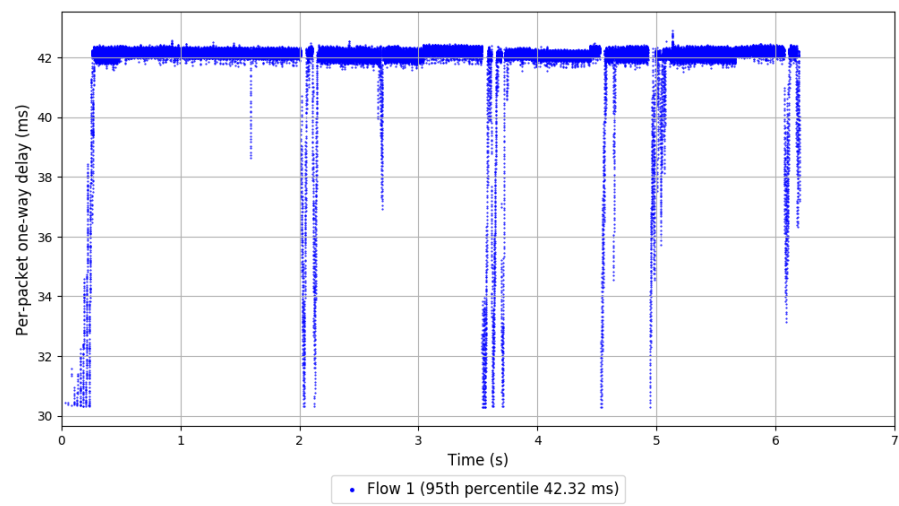
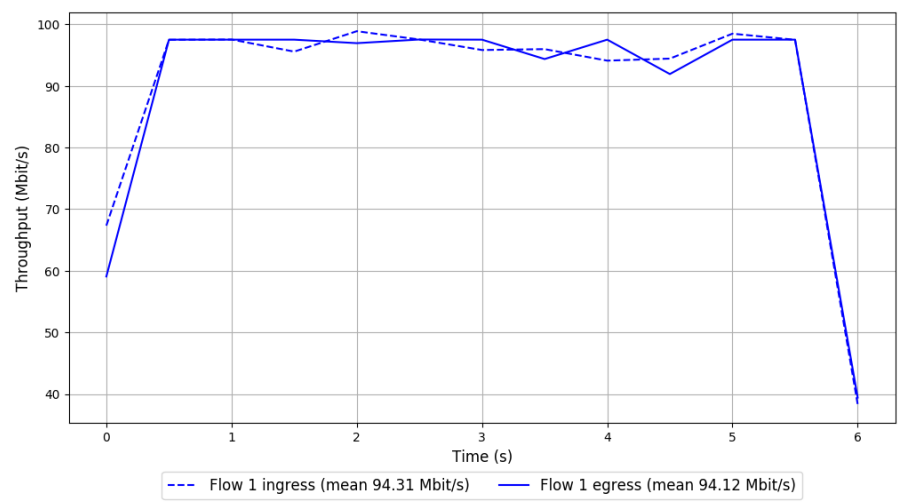
Start at: 2018-01-01 22:19:48

End at: 2018-01-01 22:20:18

Local clock offset: -5.68 ms

Remote clock offset: -18.79 ms

Run 3: Report of Verus — Data Link

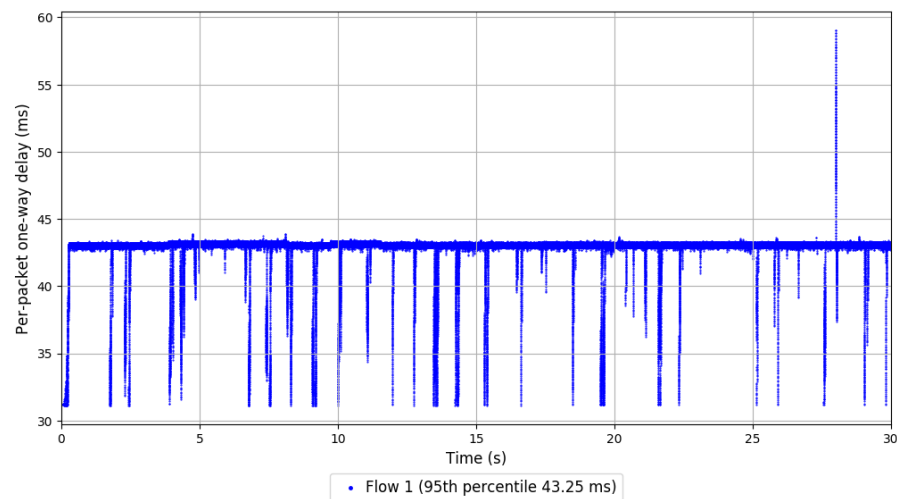
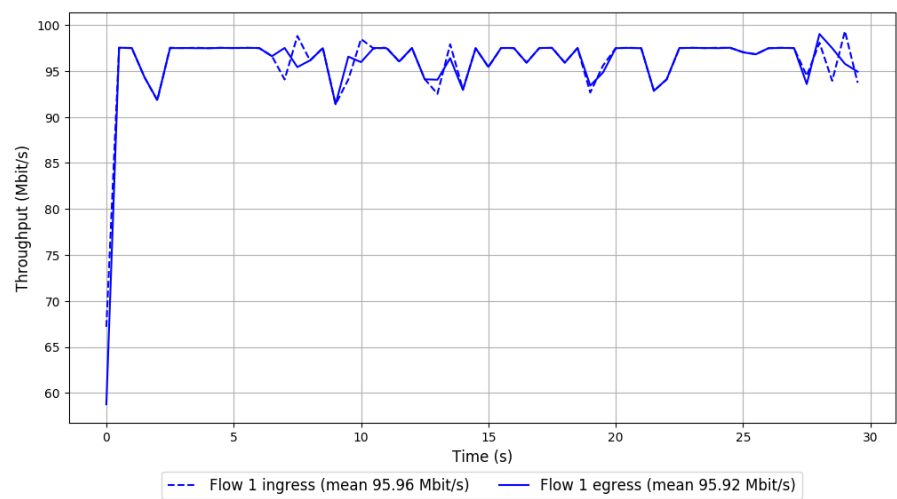


Run 4: Statistics of Verus

Start at: 2018-01-01 22:36:55
End at: 2018-01-01 22:37:25
Local clock offset: -1.755 ms
Remote clock offset: -16.651 ms

Below is generated by plot.py at 2018-01-02 03:39:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.92 Mbit/s
95th percentile per-packet one-way delay: 43.249 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 95.92 Mbit/s
95th percentile per-packet one-way delay: 43.249 ms
Loss rate: 0.12%

Run 4: Report of Verus — Data Link

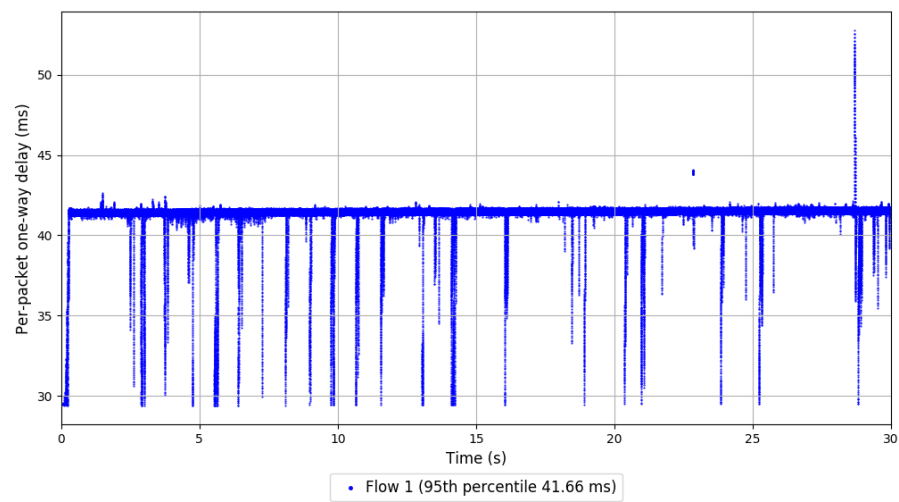
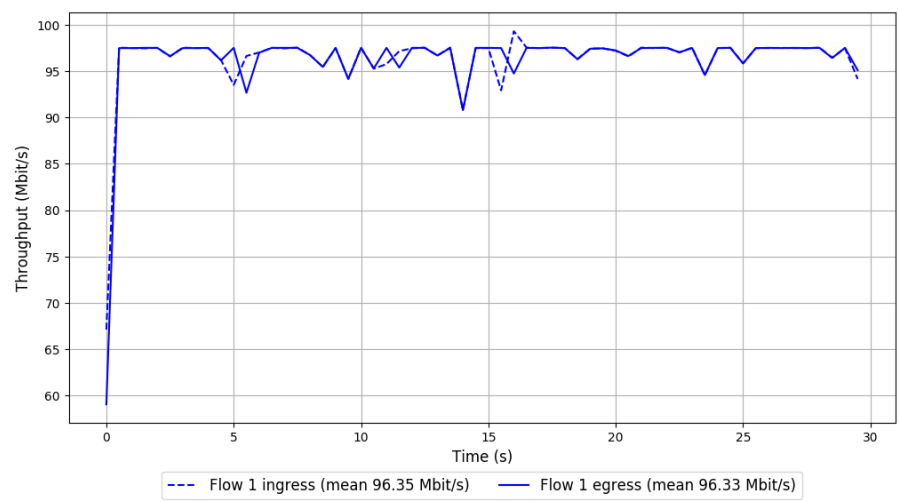


Run 5: Statistics of Verus

Start at: 2018-01-01 22:54:09
End at: 2018-01-01 22:54:39
Local clock offset: -5.561 ms
Remote clock offset: -14.95 ms

Below is generated by plot.py at 2018-01-02 03:39:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.33 Mbit/s
95th percentile per-packet one-way delay: 41.656 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 96.33 Mbit/s
95th percentile per-packet one-way delay: 41.656 ms
Loss rate: 0.12%

Run 5: Report of Verus — Data Link

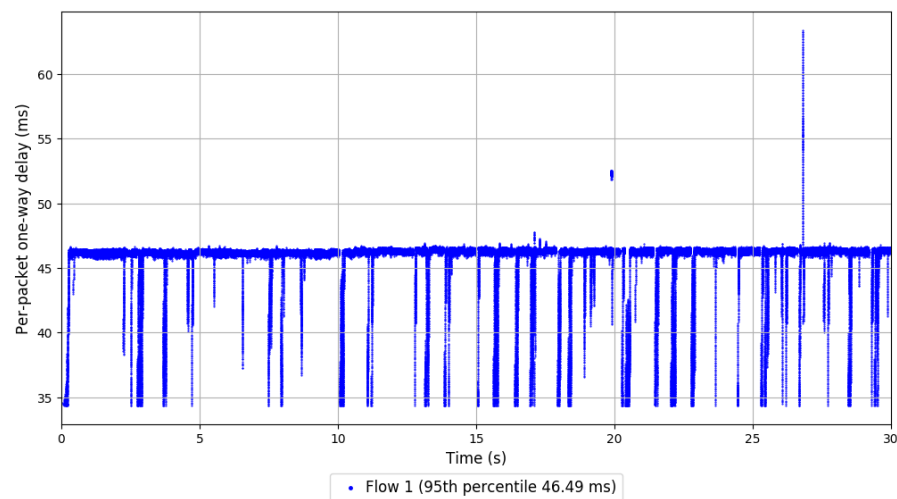
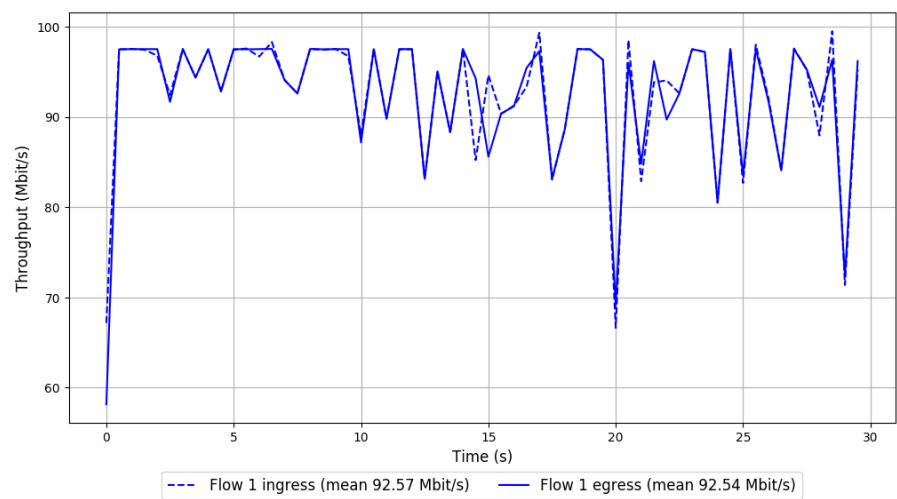


Run 6: Statistics of Verus

Start at: 2018-01-01 23:11:20
End at: 2018-01-01 23:11:51
Local clock offset: -3.744 ms
Remote clock offset: -16.835 ms

Below is generated by plot.py at 2018-01-02 03:39:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.54 Mbit/s
95th percentile per-packet one-way delay: 46.488 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 92.54 Mbit/s
95th percentile per-packet one-way delay: 46.488 ms
Loss rate: 0.13%

Run 6: Report of Verus — Data Link

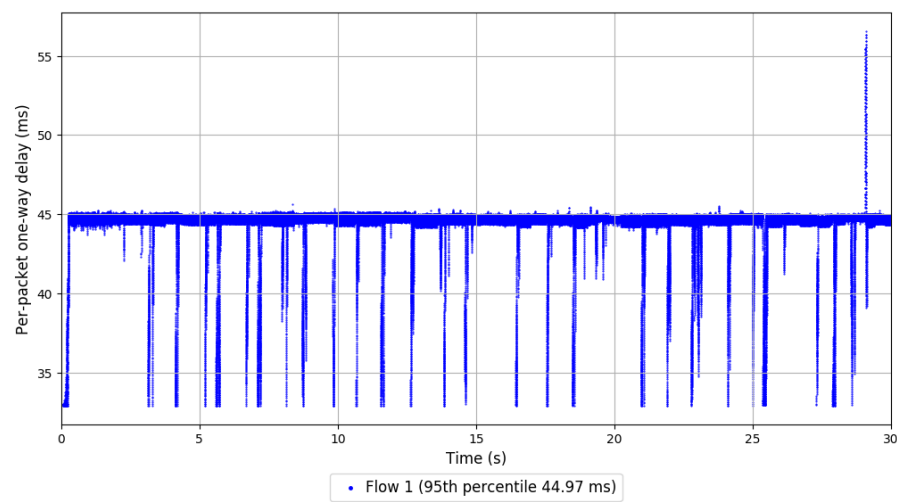
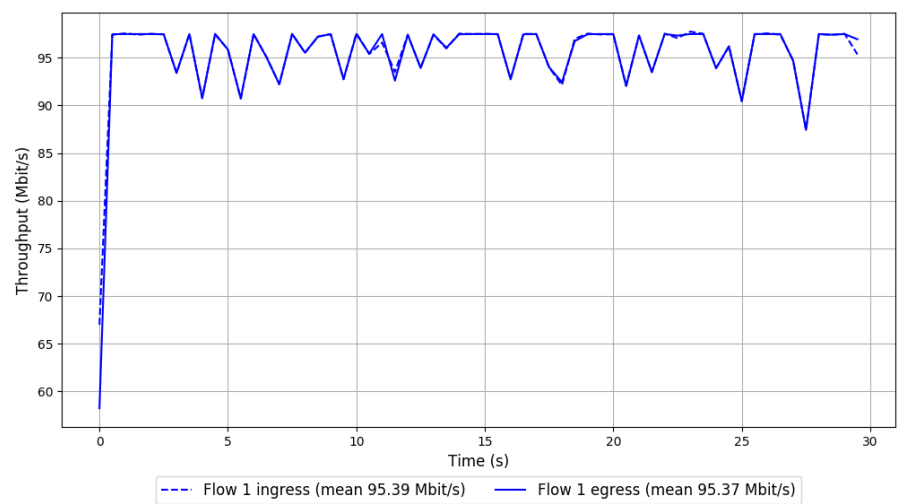


Run 7: Statistics of Verus

Start at: 2018-01-01 23:28:35
End at: 2018-01-01 23:29:05
Local clock offset: -3.709 ms
Remote clock offset: -13.89 ms

Below is generated by plot.py at 2018-01-02 03:39:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.37 Mbit/s
95th percentile per-packet one-way delay: 44.969 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 95.37 Mbit/s
95th percentile per-packet one-way delay: 44.969 ms
Loss rate: 0.12%

Run 7: Report of Verus — Data Link

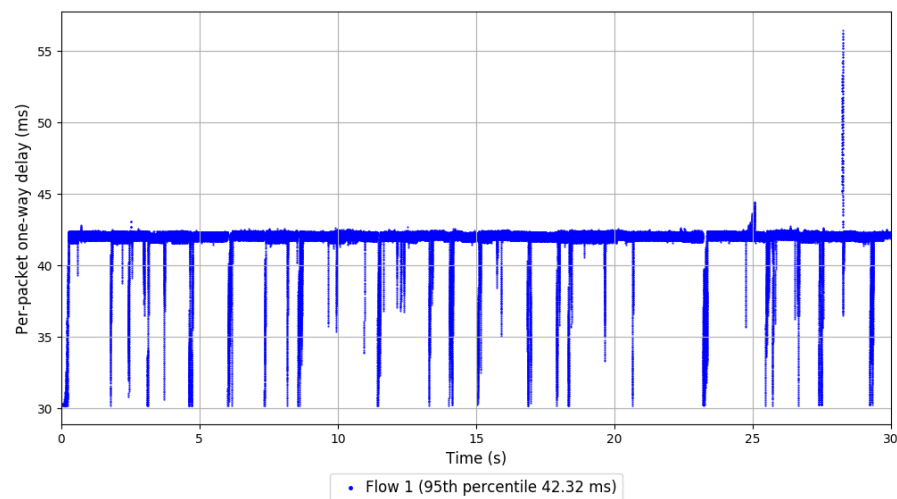
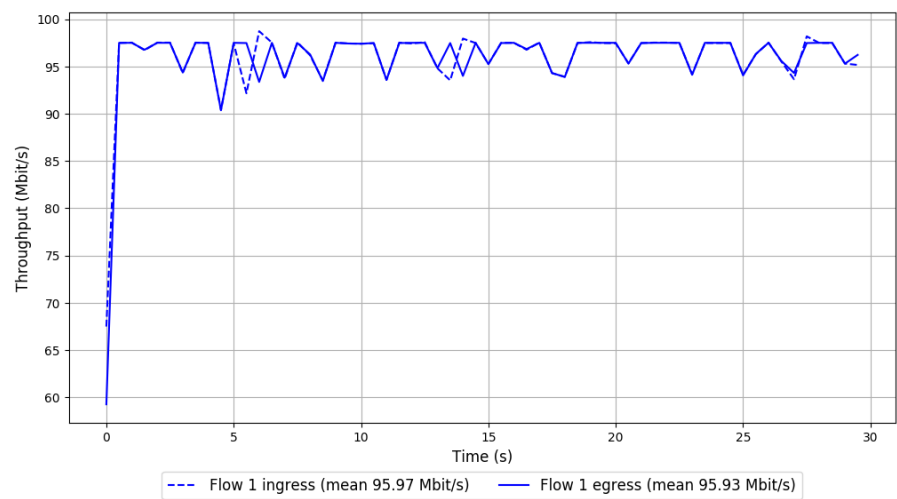


Run 8: Statistics of Verus

Start at: 2018-01-01 23:45:52
End at: 2018-01-01 23:46:22
Local clock offset: -6.734 ms
Remote clock offset: -12.305 ms

Below is generated by plot.py at 2018-01-02 03:39:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.93 Mbit/s
95th percentile per-packet one-way delay: 42.320 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 95.93 Mbit/s
95th percentile per-packet one-way delay: 42.320 ms
Loss rate: 0.12%

Run 8: Report of Verus — Data Link

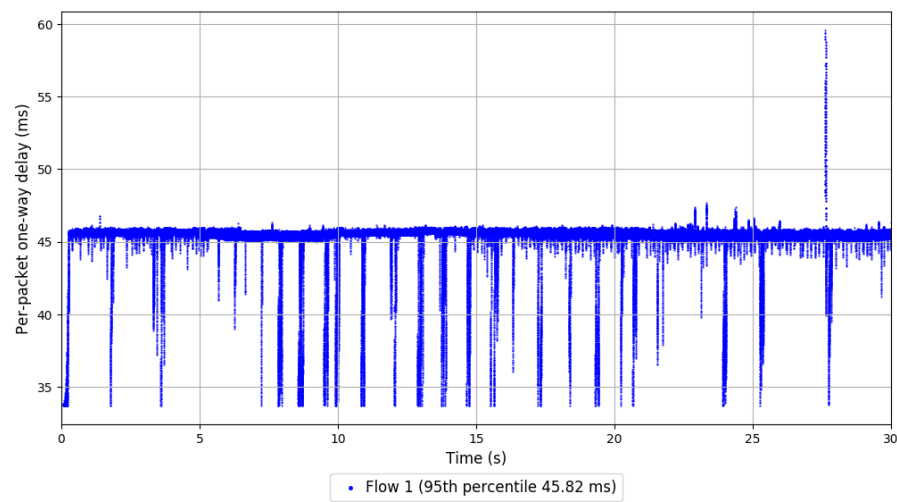
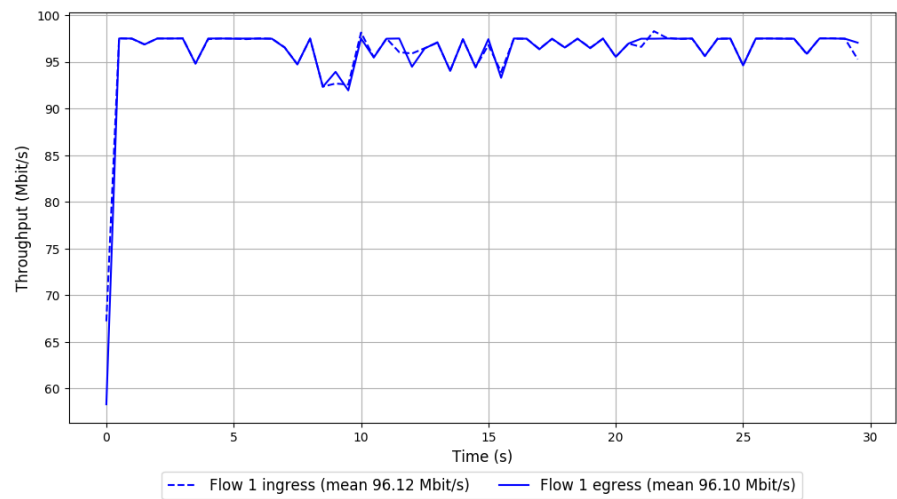


Run 9: Statistics of Verus

Start at: 2018-01-02 00:03:13
End at: 2018-01-02 00:03:43
Local clock offset: -5.31 ms
Remote clock offset: -11.849 ms

Below is generated by plot.py at 2018-01-02 03:40:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.10 Mbit/s
95th percentile per-packet one-way delay: 45.820 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 96.10 Mbit/s
95th percentile per-packet one-way delay: 45.820 ms
Loss rate: 0.12%

Run 9: Report of Verus — Data Link

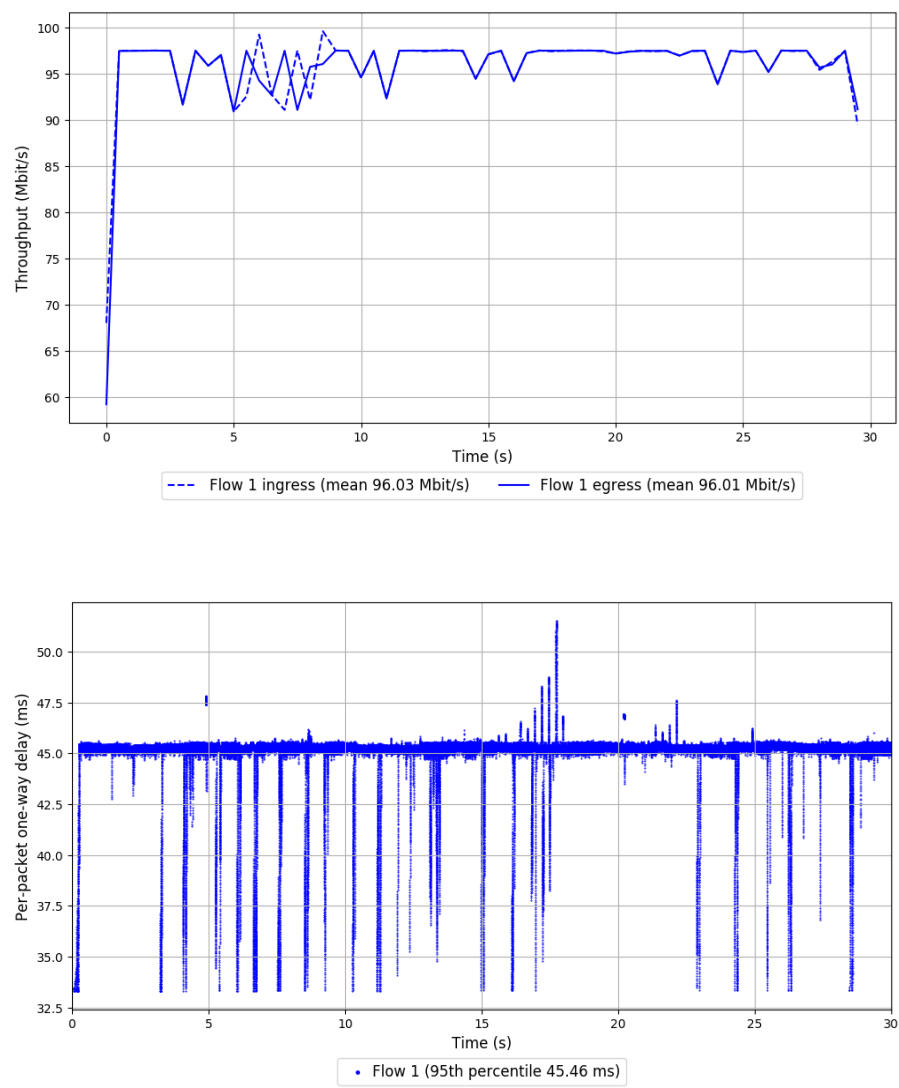


Run 10: Statistics of Verus

Start at: 2018-01-02 00:20:31
End at: 2018-01-02 00:21:01
Local clock offset: -5.796 ms
Remote clock offset: -10.472 ms

Below is generated by plot.py at 2018-01-02 03:40:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.01 Mbit/s
95th percentile per-packet one-way delay: 45.464 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 96.01 Mbit/s
95th percentile per-packet one-way delay: 45.464 ms
Loss rate: 0.12%

Run 10: Report of Verus — Data Link

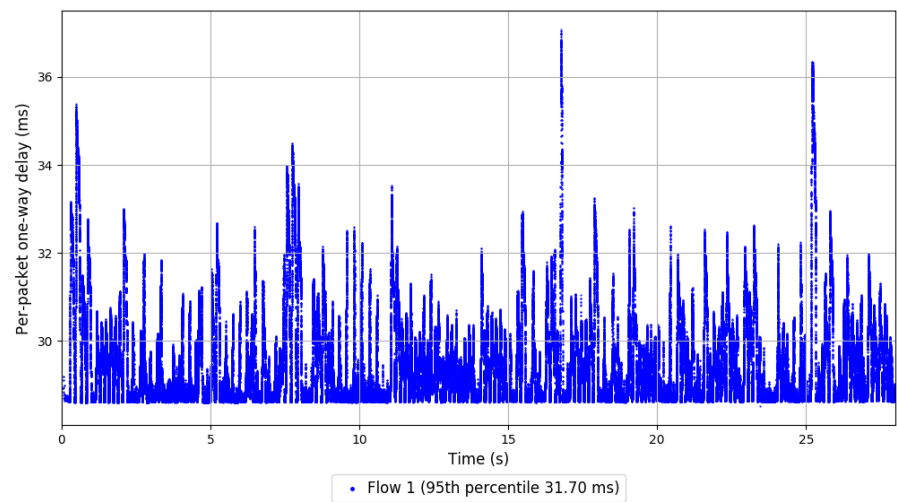
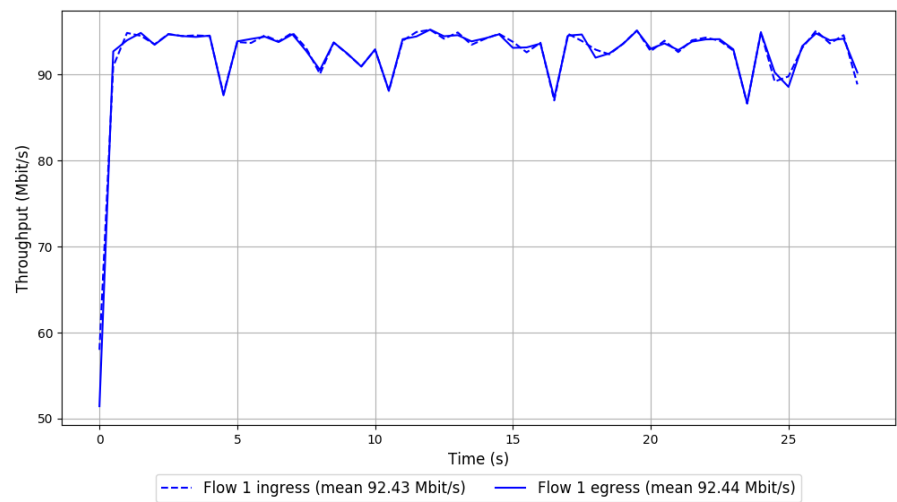


Run 1: Statistics of Copa

Start at: 2018-01-01 21:49:13
End at: 2018-01-01 21:49:43
Local clock offset: -7.329 ms
Remote clock offset: -19.579 ms

Below is generated by plot.py at 2018-01-02 03:41:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.44 Mbit/s
95th percentile per-packet one-way delay: 31.696 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 92.44 Mbit/s
95th percentile per-packet one-way delay: 31.696 ms
Loss rate: 0.08%

Run 1: Report of Copa — Data Link

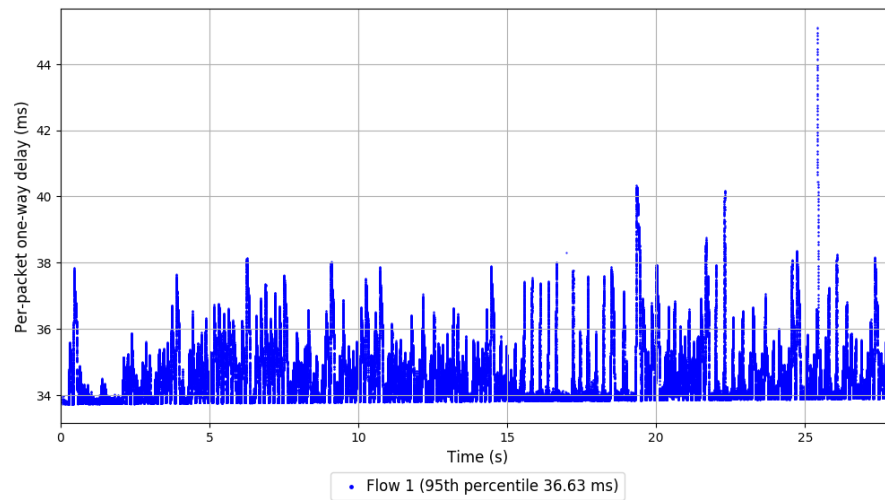
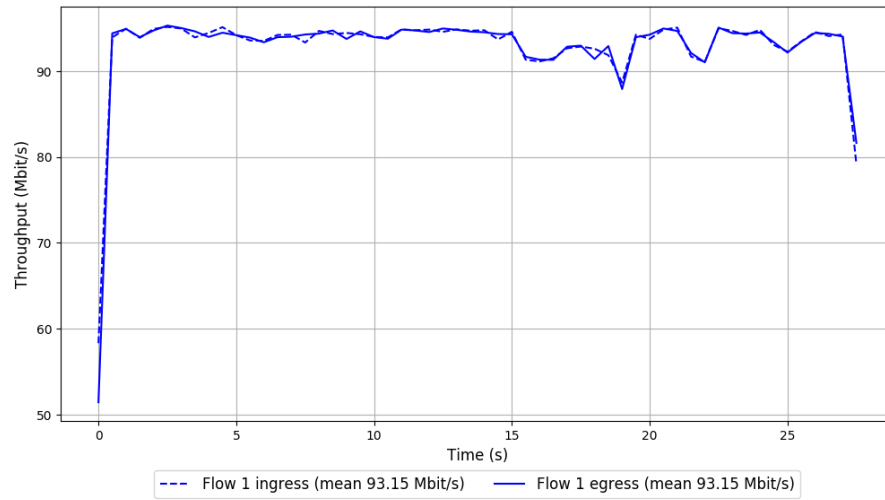


Run 2: Statistics of Copa

Start at: 2018-01-01 22:06:52
End at: 2018-01-01 22:07:22
Local clock offset: -4.256 ms
Remote clock offset: -19.351 ms

Below is generated by plot.py at 2018-01-02 03:41:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.15 Mbit/s
95th percentile per-packet one-way delay: 36.631 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 93.15 Mbit/s
95th percentile per-packet one-way delay: 36.631 ms
Loss rate: 0.08%

Run 2: Report of Copa — Data Link

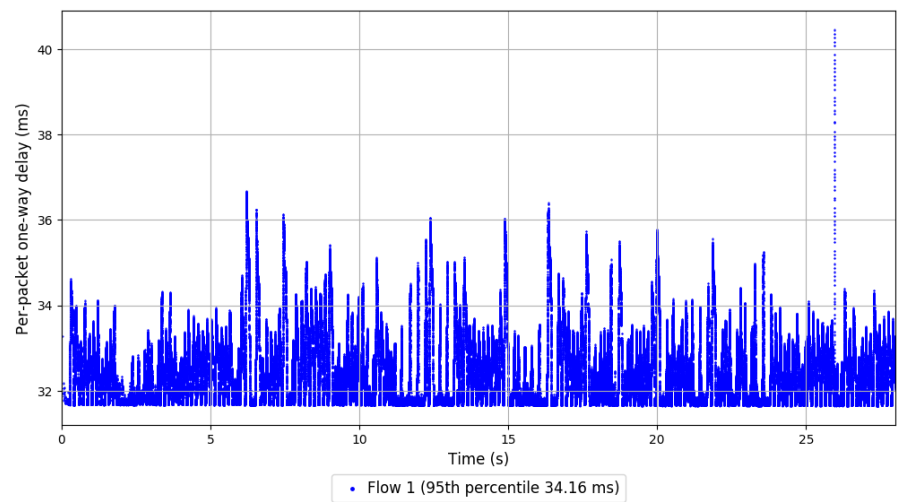
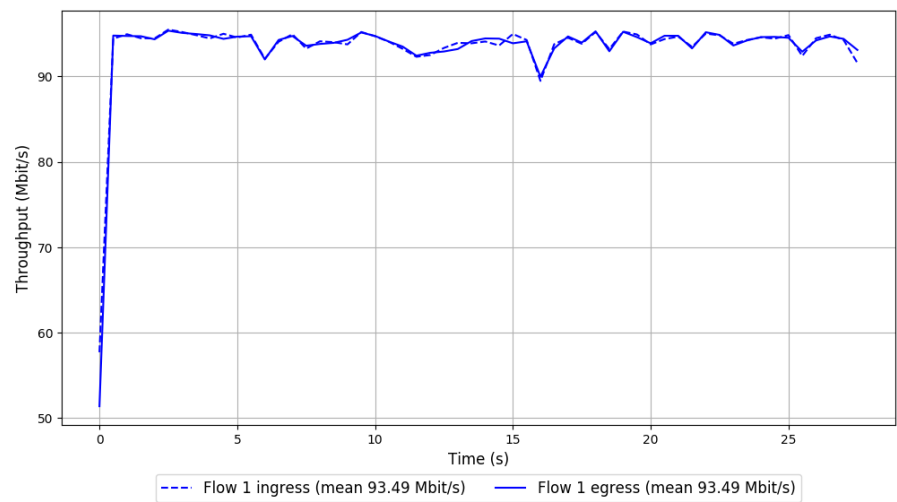


Run 3: Statistics of Copa

Start at: 2018-01-01 22:24:12
End at: 2018-01-01 22:24:42
Local clock offset: -4.391 ms
Remote clock offset: -19.538 ms

Below is generated by plot.py at 2018-01-02 03:41:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.49 Mbit/s
95th percentile per-packet one-way delay: 34.162 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 93.49 Mbit/s
95th percentile per-packet one-way delay: 34.162 ms
Loss rate: 0.09%

Run 3: Report of Copa — Data Link

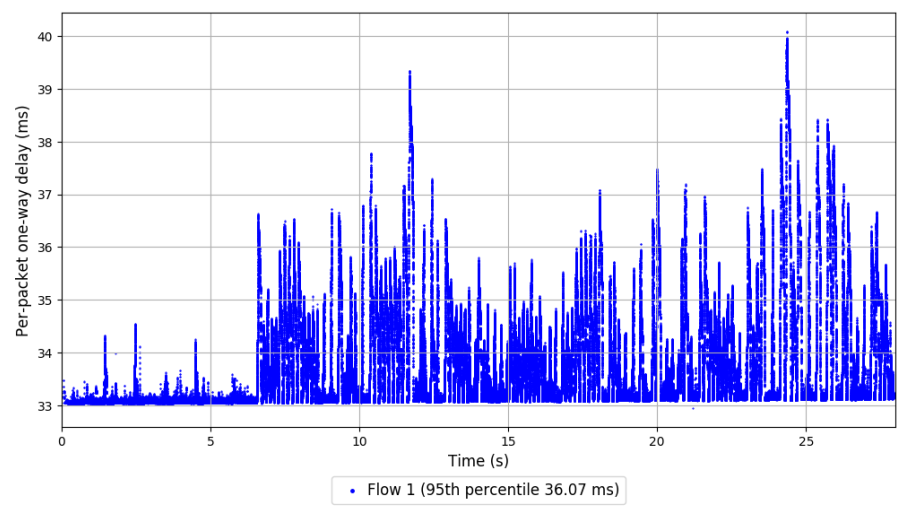
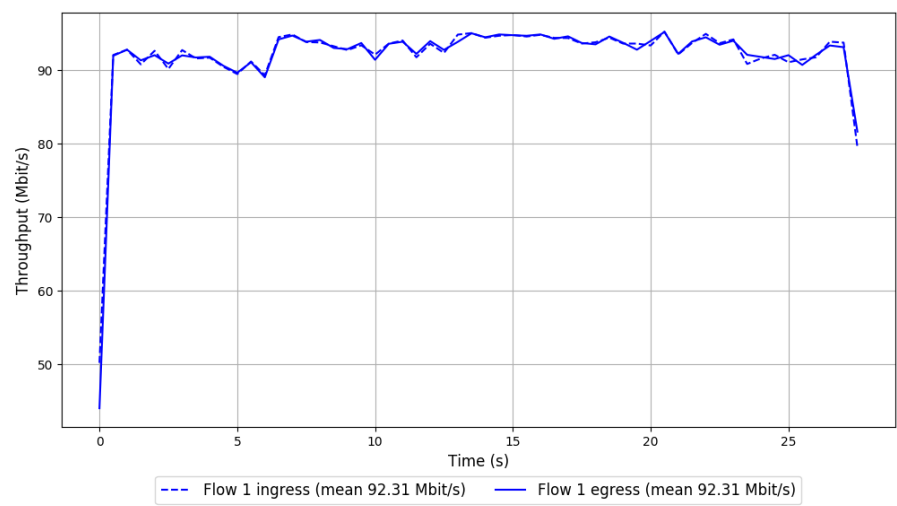


Run 4: Statistics of Copa

Start at: 2018-01-01 22:41:24
End at: 2018-01-01 22:41:54
Local clock offset: -1.294 ms
Remote clock offset: -17.432 ms

Below is generated by plot.py at 2018-01-02 03:41:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.31 Mbit/s
95th percentile per-packet one-way delay: 36.069 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 92.31 Mbit/s
95th percentile per-packet one-way delay: 36.069 ms
Loss rate: 0.09%

Run 4: Report of Copa — Data Link

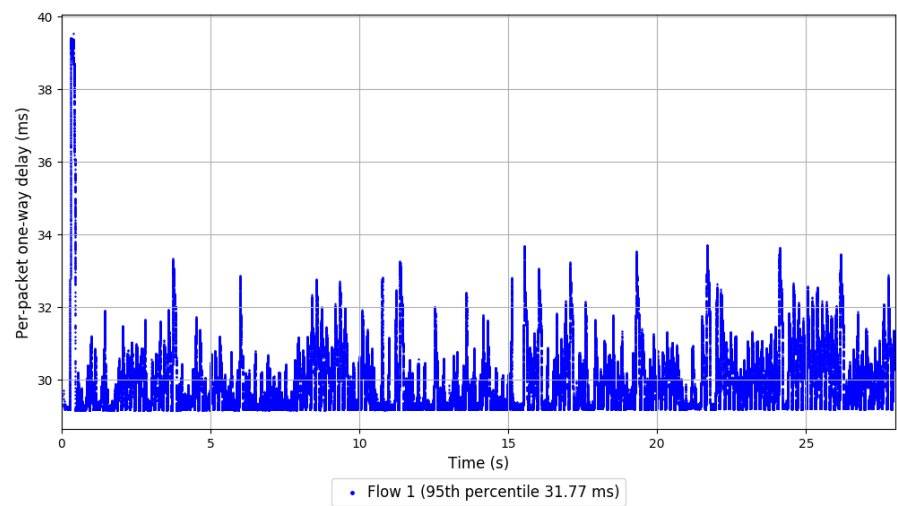
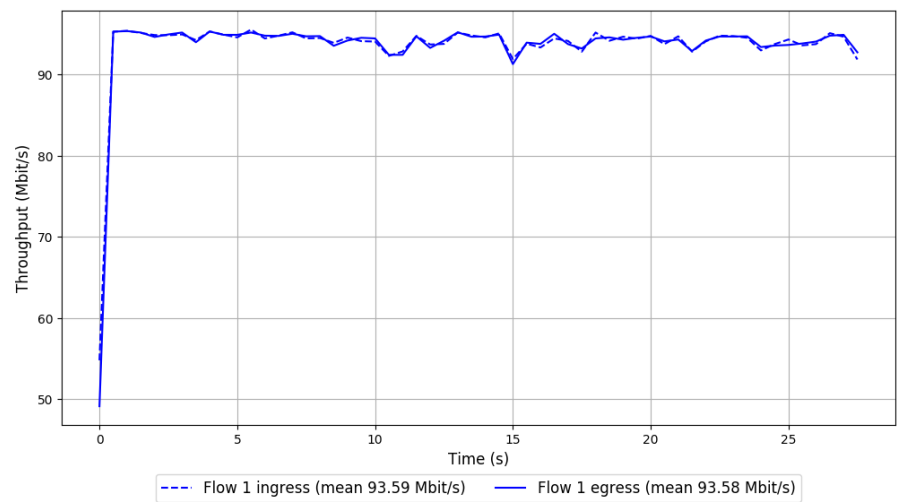


Run 5: Statistics of Copa

Start at: 2018-01-01 22:58:38
End at: 2018-01-01 22:59:08
Local clock offset: -7.28 ms
Remote clock offset: -15.591 ms

Below is generated by plot.py at 2018-01-02 03:42:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.58 Mbit/s
95th percentile per-packet one-way delay: 31.766 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 93.58 Mbit/s
95th percentile per-packet one-way delay: 31.766 ms
Loss rate: 0.09%

Run 5: Report of Copa — Data Link

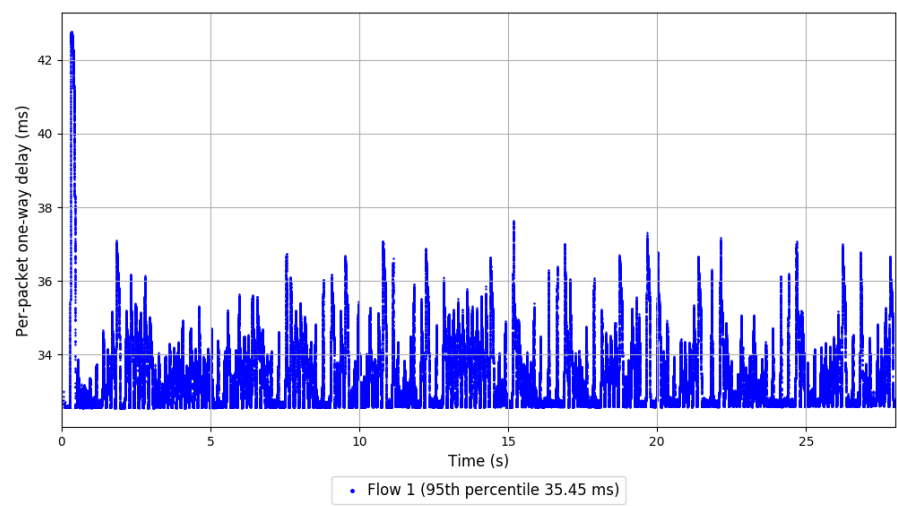
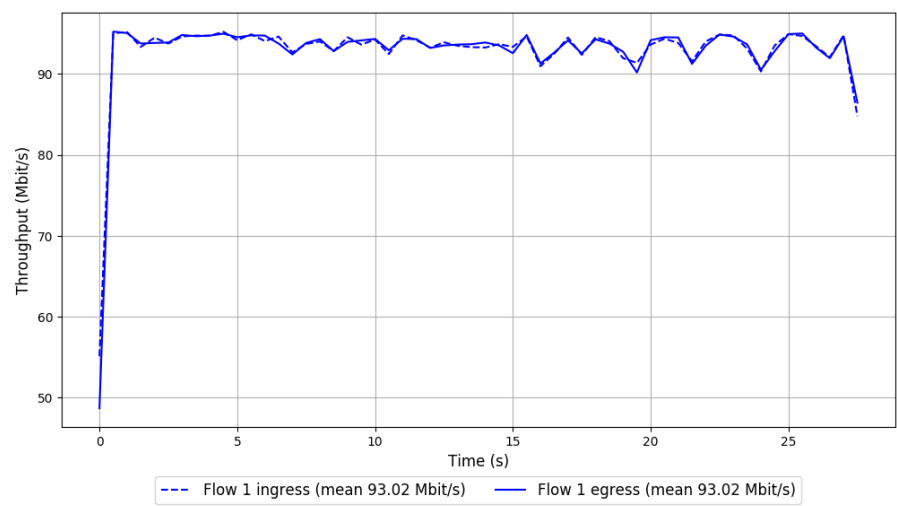


Run 6: Statistics of Copa

Start at: 2018-01-01 23:15:53
End at: 2018-01-01 23:16:23
Local clock offset: -3.583 ms
Remote clock offset: -14.516 ms

Below is generated by plot.py at 2018-01-02 03:42:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.02 Mbit/s
95th percentile per-packet one-way delay: 35.447 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 93.02 Mbit/s
95th percentile per-packet one-way delay: 35.447 ms
Loss rate: 0.09%

Run 6: Report of Copa — Data Link

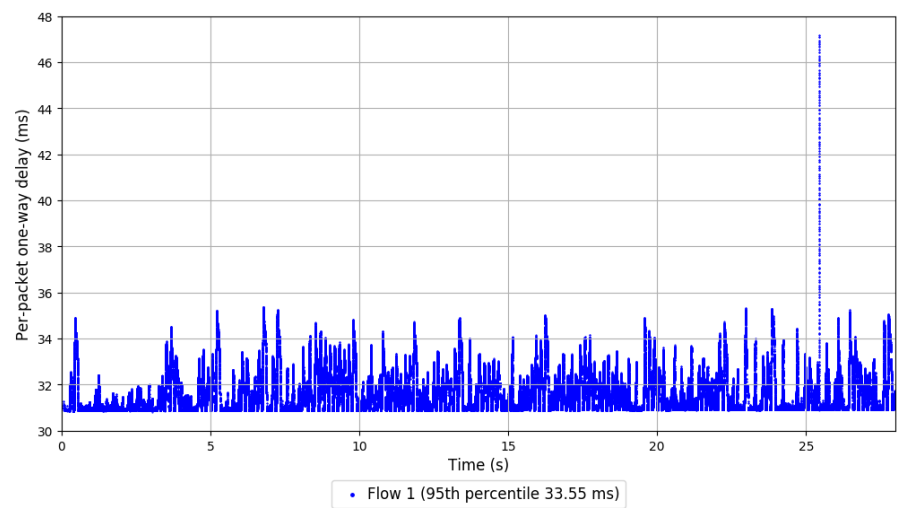
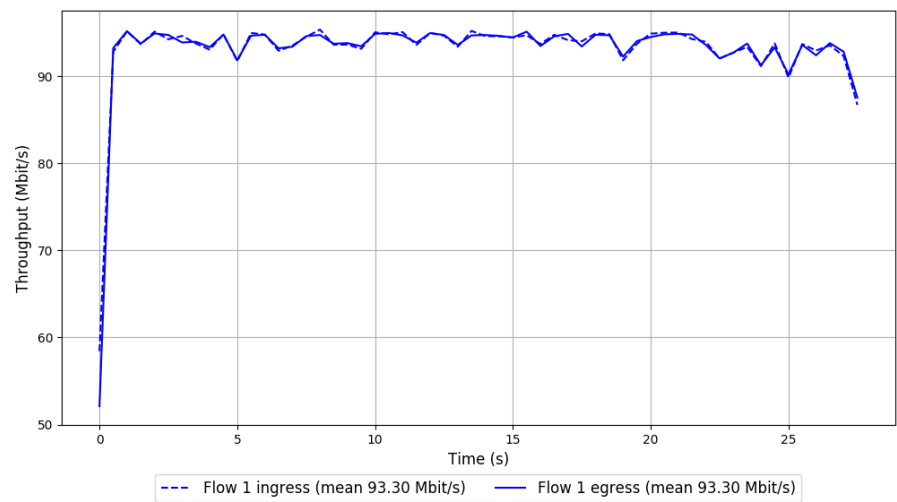


Run 7: Statistics of Copa

Start at: 2018-01-01 23:33:04
End at: 2018-01-01 23:33:34
Local clock offset: -5.492 ms
Remote clock offset: -13.266 ms

Below is generated by plot.py at 2018-01-02 03:42:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.30 Mbit/s
95th percentile per-packet one-way delay: 33.549 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 93.30 Mbit/s
95th percentile per-packet one-way delay: 33.549 ms
Loss rate: 0.09%

Run 7: Report of Copa — Data Link

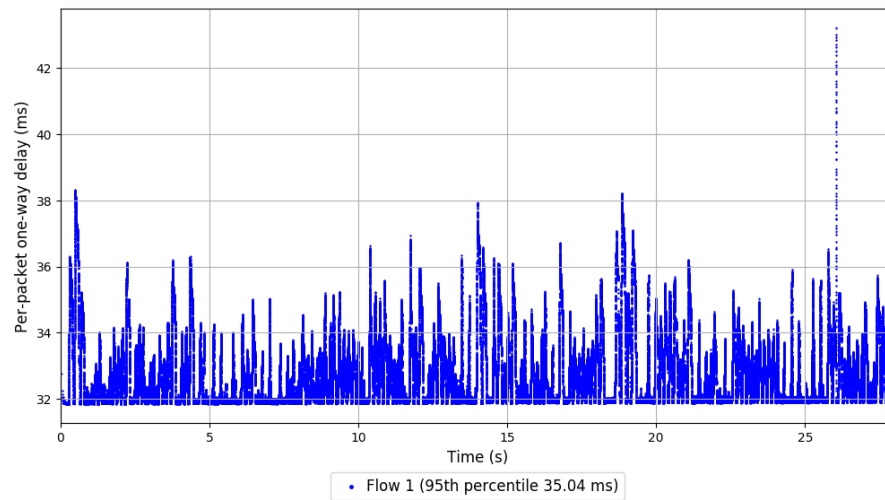
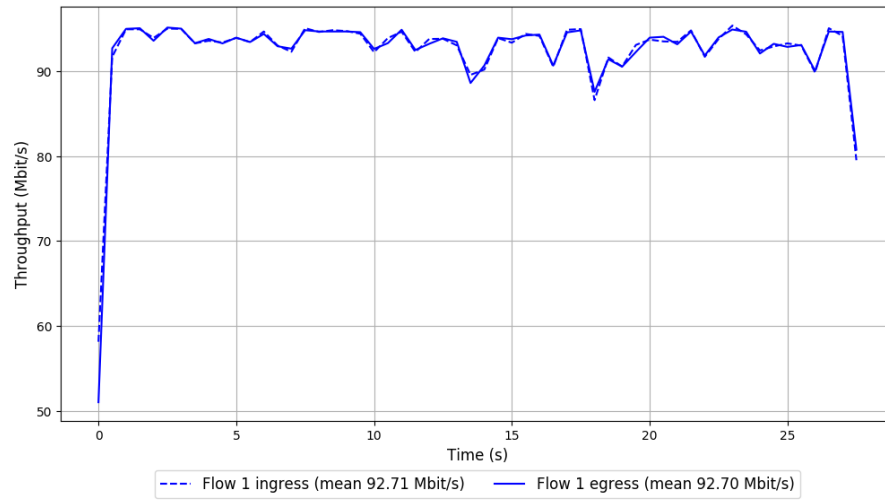


Run 8: Statistics of Copa

Start at: 2018-01-01 23:50:23
End at: 2018-01-01 23:50:53
Local clock offset: -4.967 ms
Remote clock offset: -11.83 ms

Below is generated by plot.py at 2018-01-02 03:42:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.70 Mbit/s
95th percentile per-packet one-way delay: 35.042 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 92.70 Mbit/s
95th percentile per-packet one-way delay: 35.042 ms
Loss rate: 0.09%

Run 8: Report of Copa — Data Link

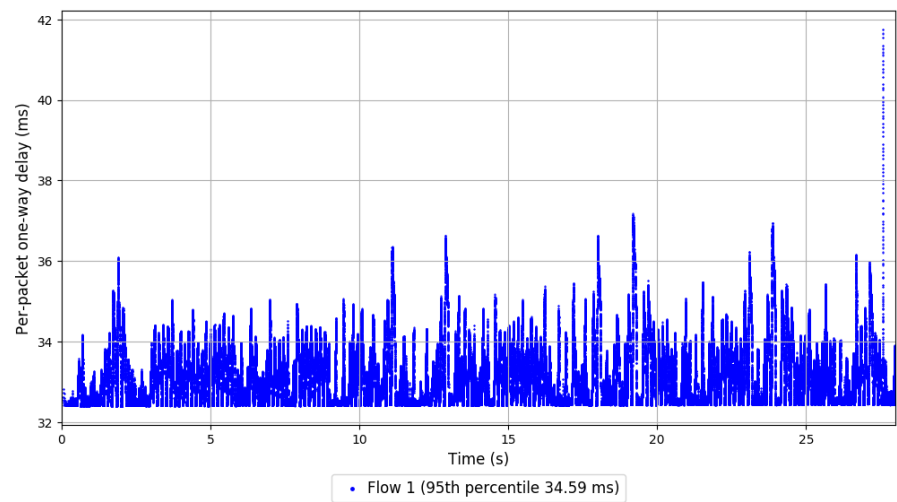
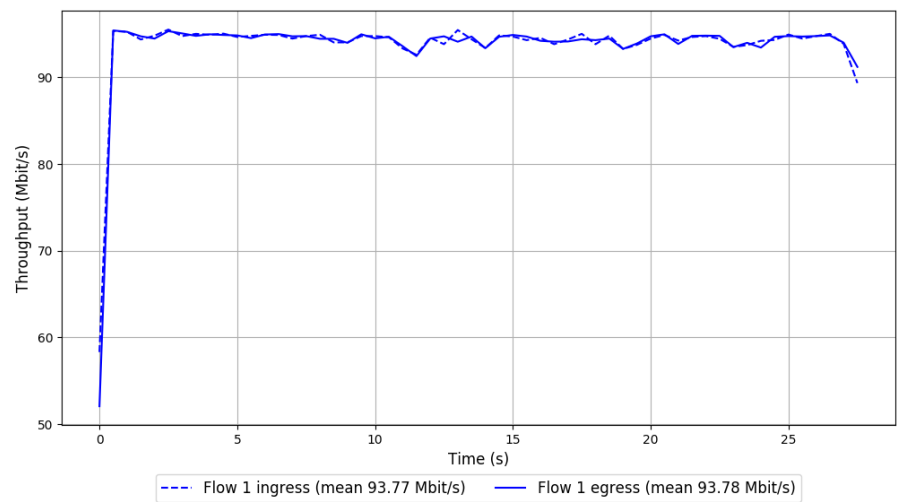


Run 9: Statistics of Copa

Start at: 2018-01-02 00:07:43
End at: 2018-01-02 00:08:13
Local clock offset: -6.668 ms
Remote clock offset: -11.576 ms

Below is generated by plot.py at 2018-01-02 03:43:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.78 Mbit/s
95th percentile per-packet one-way delay: 34.595 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 93.78 Mbit/s
95th percentile per-packet one-way delay: 34.595 ms
Loss rate: 0.08%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-02 00:25:01

End at: 2018-01-02 00:25:31

Local clock offset: -8.485 ms

Remote clock offset: -11.554 ms

Below is generated by plot.py at 2018-01-02 03:43:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.26 Mbit/s

95th percentile per-packet one-way delay: 34.286 ms

Loss rate: 0.10%

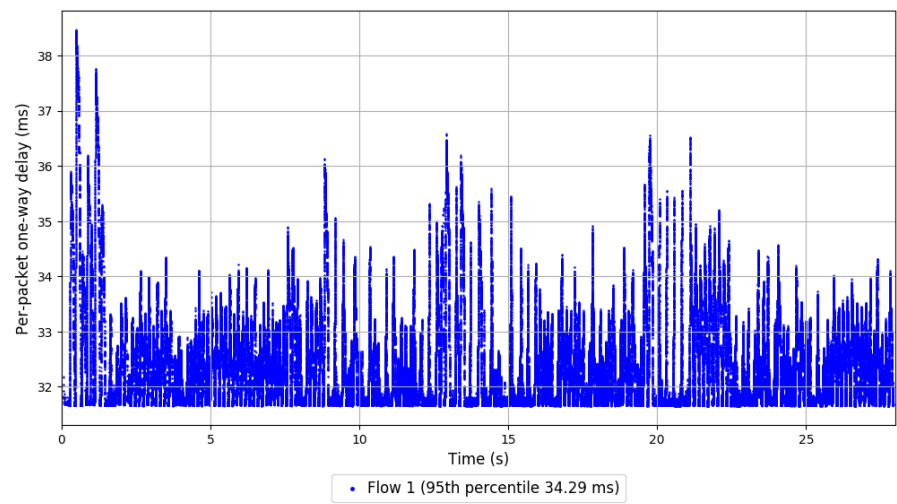
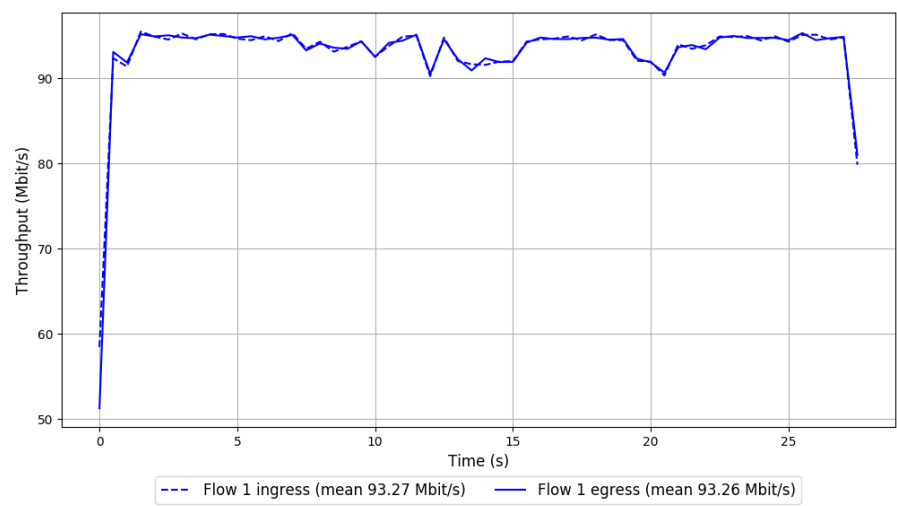
-- Flow 1:

Average throughput: 93.26 Mbit/s

95th percentile per-packet one-way delay: 34.286 ms

Loss rate: 0.10%

Run 10: Report of Copa — Data Link

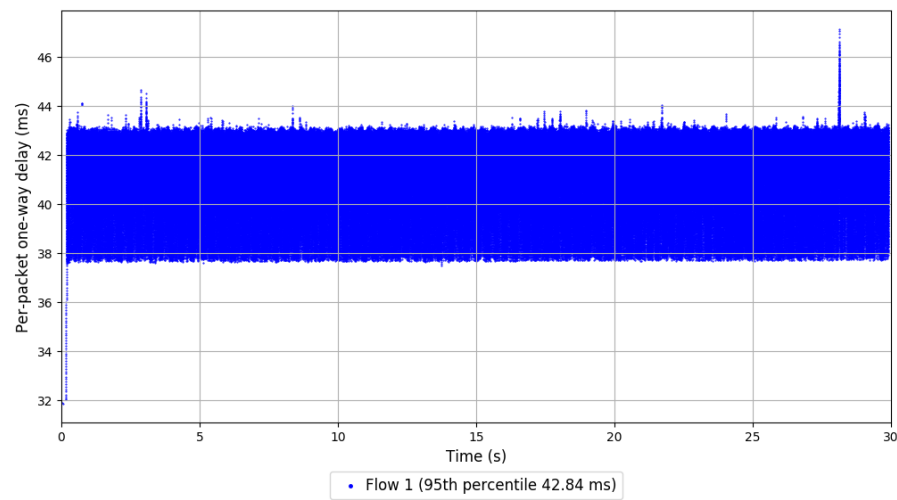
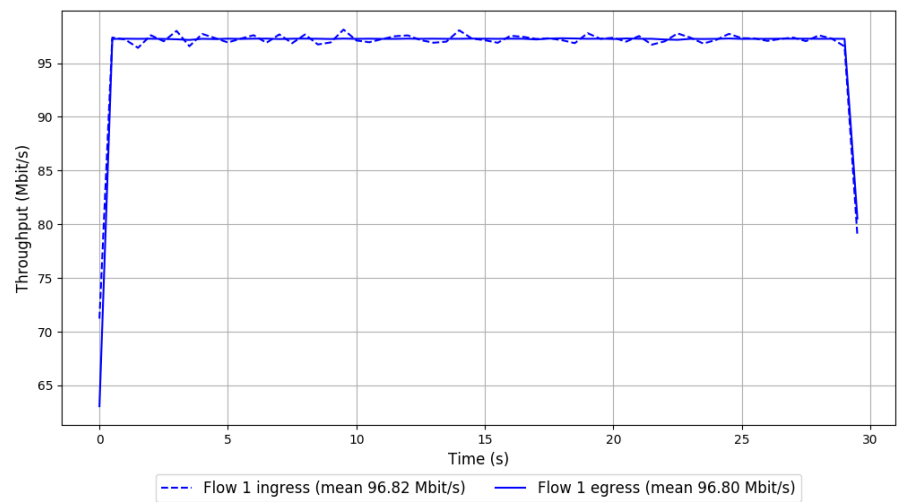


```
Run 1: Statistics of FillP

Start at: 2018-01-01 21:50:33
End at: 2018-01-01 21:51:03
Local clock offset: -3.12 ms
Remote clock offset: -18.609 ms

# Below is generated by plot.py at 2018-01-02 03:43:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.80 Mbit/s
95th percentile per-packet one-way delay: 42.840 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.80 Mbit/s
95th percentile per-packet one-way delay: 42.840 ms
Loss rate: 0.10%
```


Run 1: Report of FillP — Data Link

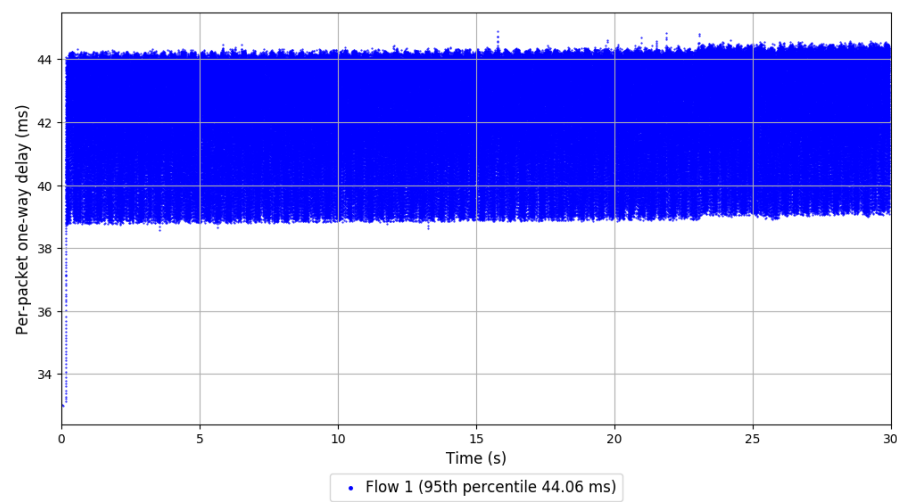
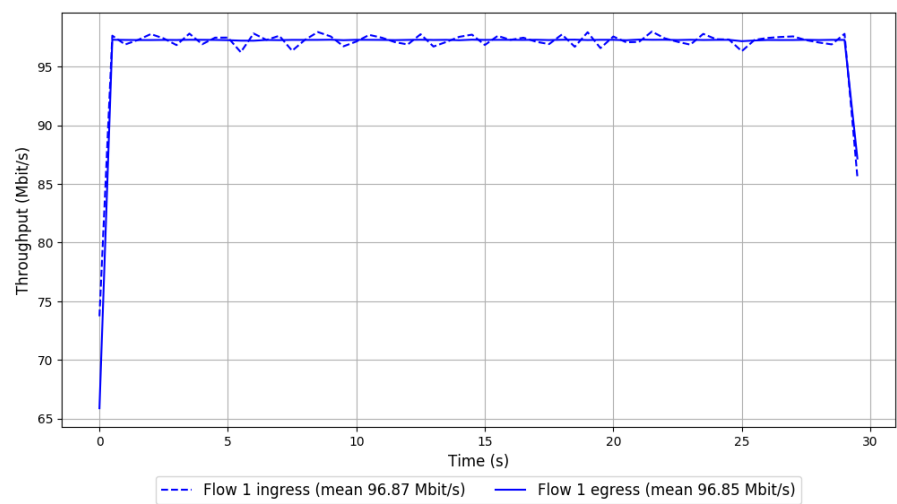


Run 2: Statistics of FillP

Start at: 2018-01-01 22:08:06
End at: 2018-01-01 22:08:36
Local clock offset: -8.576 ms
Remote clock offset: -22.566 ms

Below is generated by plot.py at 2018-01-02 03:43:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.85 Mbit/s
95th percentile per-packet one-way delay: 44.056 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 96.85 Mbit/s
95th percentile per-packet one-way delay: 44.056 ms
Loss rate: 0.12%

Run 2: Report of FillP — Data Link

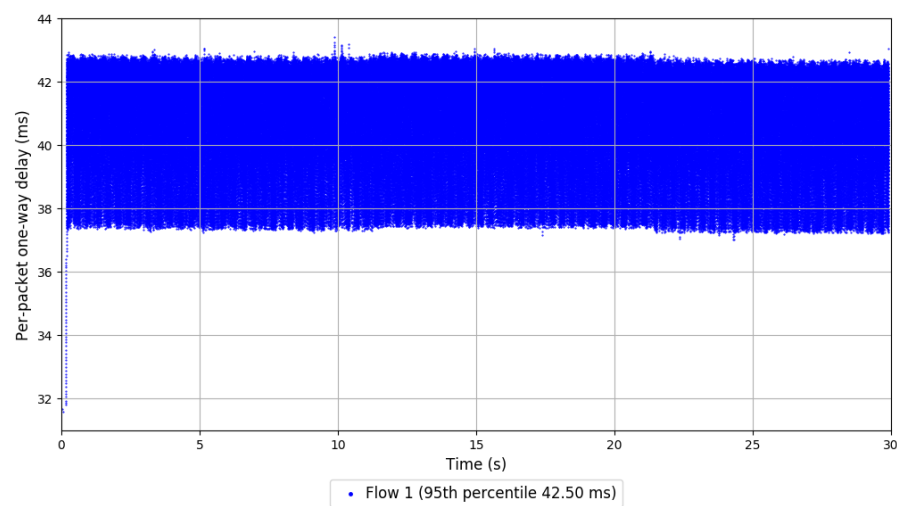
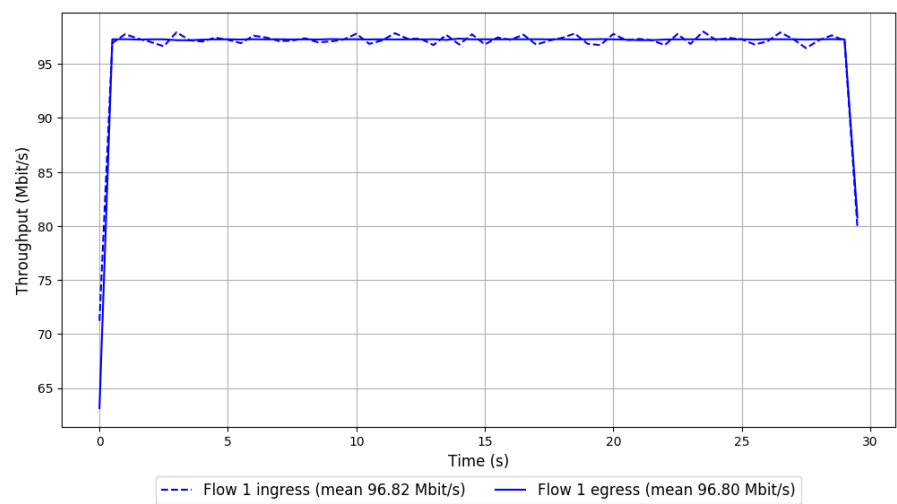


Run 3: Statistics of FillP

Start at: 2018-01-01 22:25:24
End at: 2018-01-01 22:25:54
Local clock offset: -3.346 ms
Remote clock offset: -18.669 ms

Below is generated by plot.py at 2018-01-02 03:43:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.80 Mbit/s
95th percentile per-packet one-way delay: 42.501 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 96.80 Mbit/s
95th percentile per-packet one-way delay: 42.501 ms
Loss rate: 0.12%

Run 3: Report of FillP — Data Link

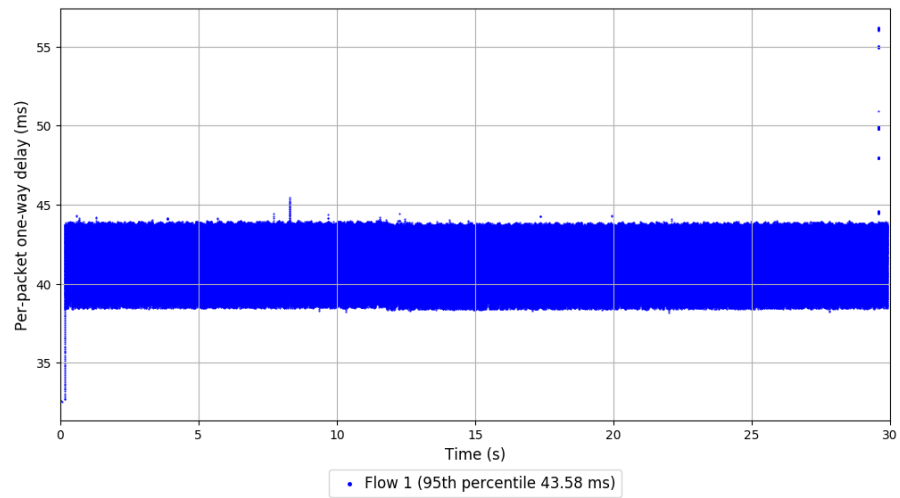
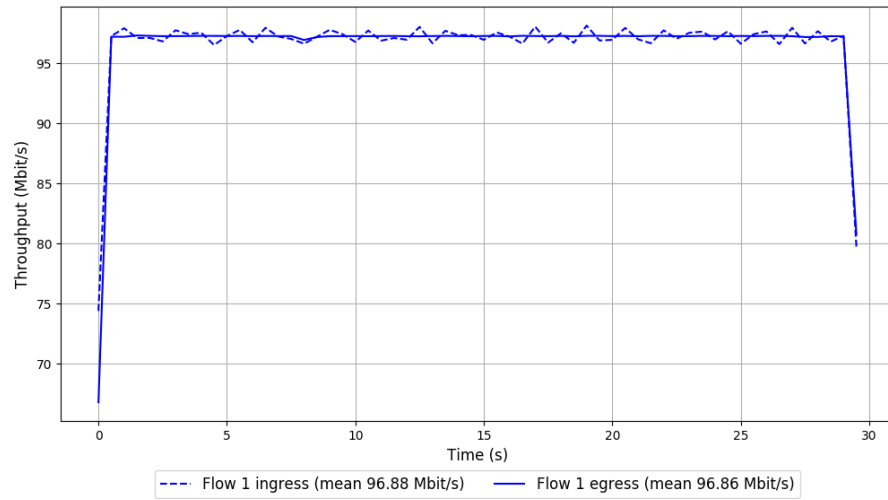


Run 4: Statistics of FillP

Start at: 2018-01-01 22:42:37
End at: 2018-01-01 22:43:07
Local clock offset: -1.371 ms
Remote clock offset: -16.896 ms

Below is generated by plot.py at 2018-01-02 03:43:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.86 Mbit/s
95th percentile per-packet one-way delay: 43.579 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 96.86 Mbit/s
95th percentile per-packet one-way delay: 43.579 ms
Loss rate: 0.12%

Run 4: Report of FillP — Data Link

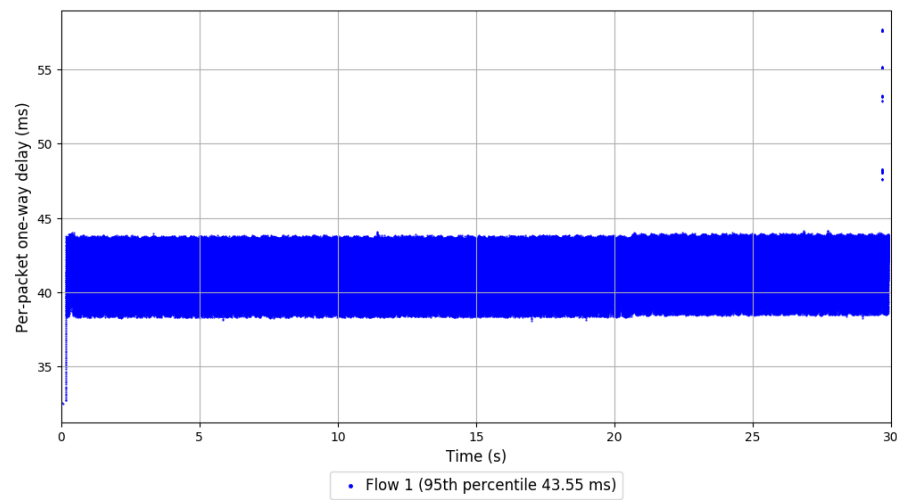
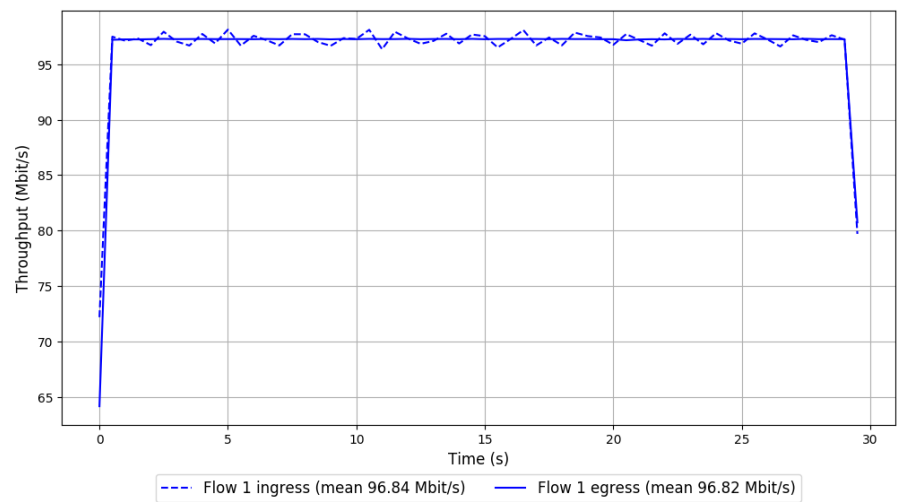


Run 5: Statistics of FillP

Start at: 2018-01-01 22:59:51
End at: 2018-01-01 23:00:21
Local clock offset: -4.451 ms
Remote clock offset: -16.136 ms

Below is generated by plot.py at 2018-01-02 03:44:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.82 Mbit/s
95th percentile per-packet one-way delay: 43.549 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 96.82 Mbit/s
95th percentile per-packet one-way delay: 43.549 ms
Loss rate: 0.12%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-01 23:17:06

End at: 2018-01-01 23:17:36

Local clock offset: -4.07 ms

Remote clock offset: -16.0 ms

Below is generated by plot.py at 2018-01-02 03:44:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.80 Mbit/s

95th percentile per-packet one-way delay: 44.544 ms

Loss rate: 0.11%

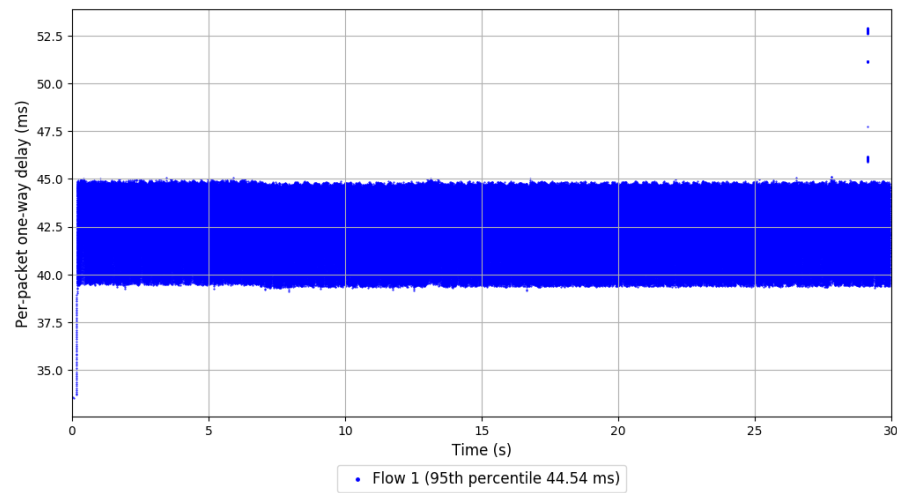
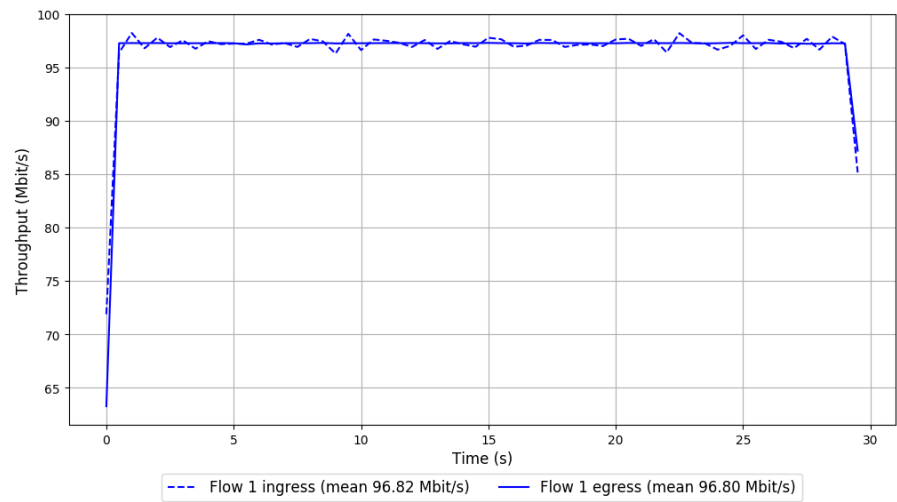
-- Flow 1:

Average throughput: 96.80 Mbit/s

95th percentile per-packet one-way delay: 44.544 ms

Loss rate: 0.11%

Run 6: Report of FillP — Data Link

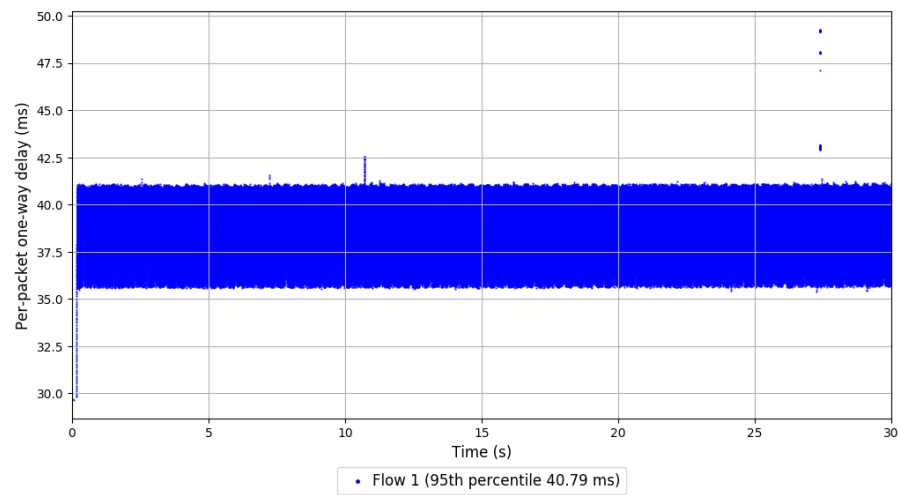
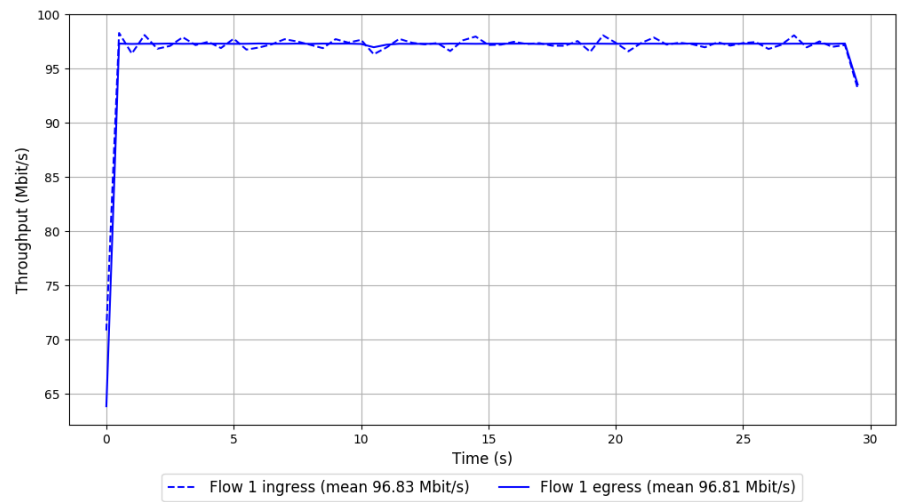


Run 7: Statistics of FillP

Start at: 2018-01-01 23:34:16
End at: 2018-01-01 23:34:46
Local clock offset: -6.809 ms
Remote clock offset: -13.37 ms

Below is generated by plot.py at 2018-01-02 03:44:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.81 Mbit/s
95th percentile per-packet one-way delay: 40.794 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 96.81 Mbit/s
95th percentile per-packet one-way delay: 40.794 ms
Loss rate: 0.12%

Run 7: Report of FillP — Data Link

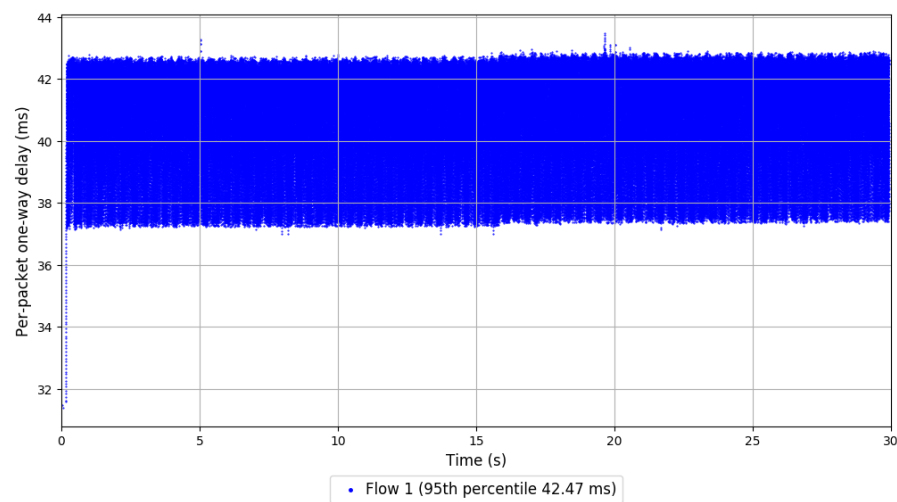
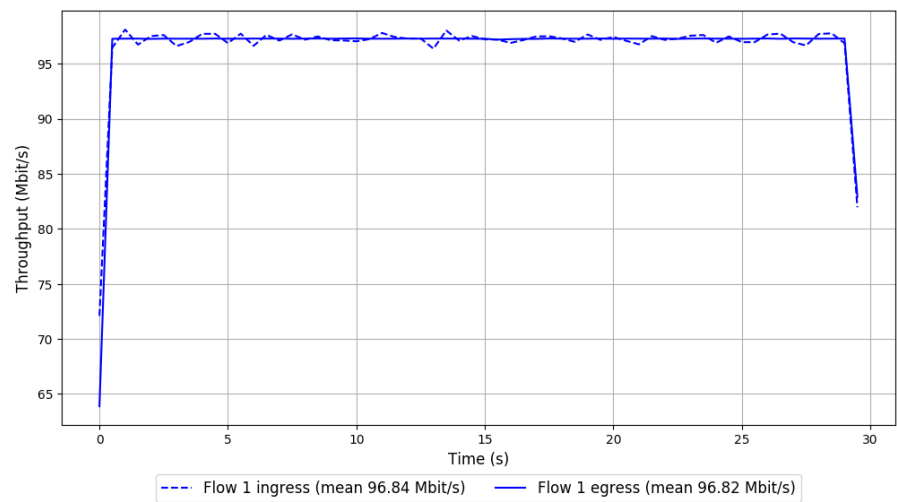


Run 8: Statistics of FillP

Start at: 2018-01-01 23:51:37
End at: 2018-01-01 23:52:07
Local clock offset: -6.374 ms
Remote clock offset: -12.816 ms

Below is generated by plot.py at 2018-01-02 03:44:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.82 Mbit/s
95th percentile per-packet one-way delay: 42.467 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 96.82 Mbit/s
95th percentile per-packet one-way delay: 42.467 ms
Loss rate: 0.12%

Run 8: Report of FillP — Data Link

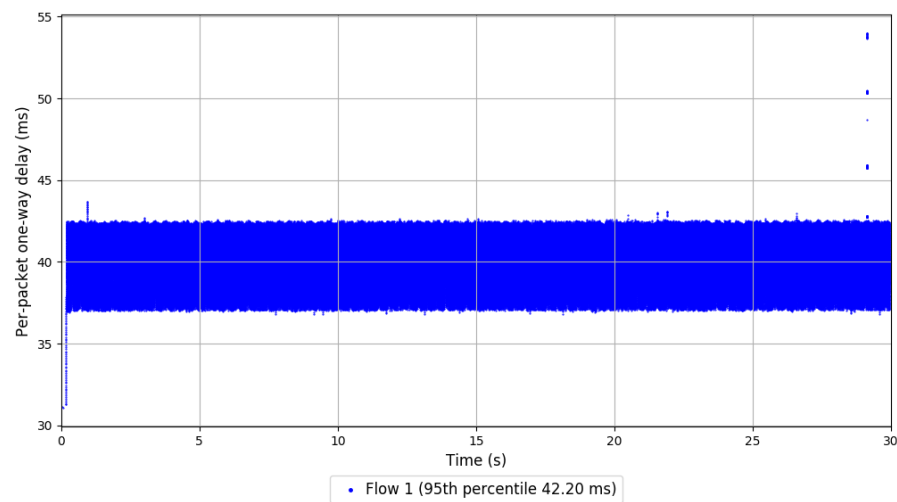
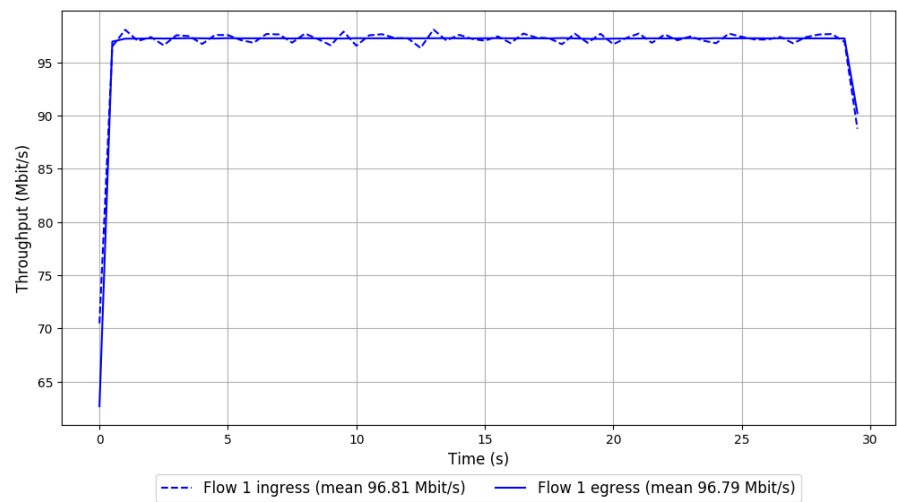


Run 9: Statistics of FillP

Start at: 2018-01-02 00:08:55
End at: 2018-01-02 00:09:25
Local clock offset: -7.932 ms
Remote clock offset: -11.559 ms

Below is generated by plot.py at 2018-01-02 03:45:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.79 Mbit/s
95th percentile per-packet one-way delay: 42.204 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 96.79 Mbit/s
95th percentile per-packet one-way delay: 42.204 ms
Loss rate: 0.11%

Run 9: Report of FillP — Data Link

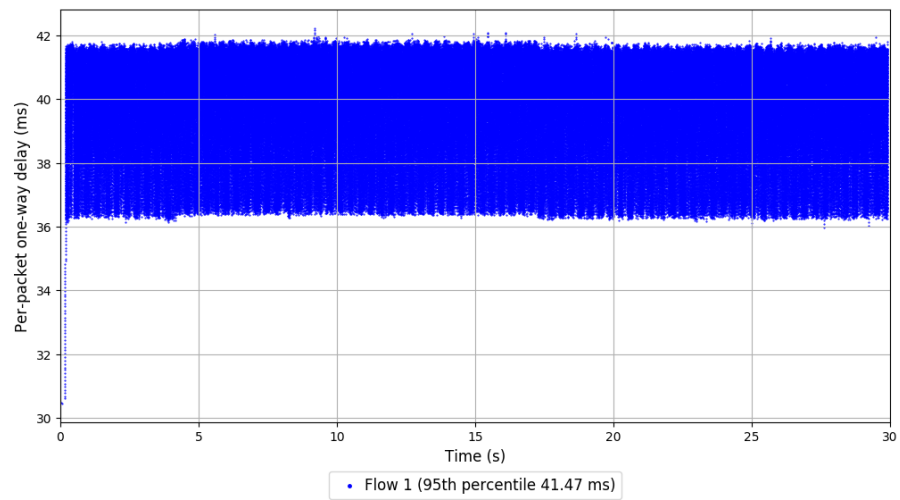
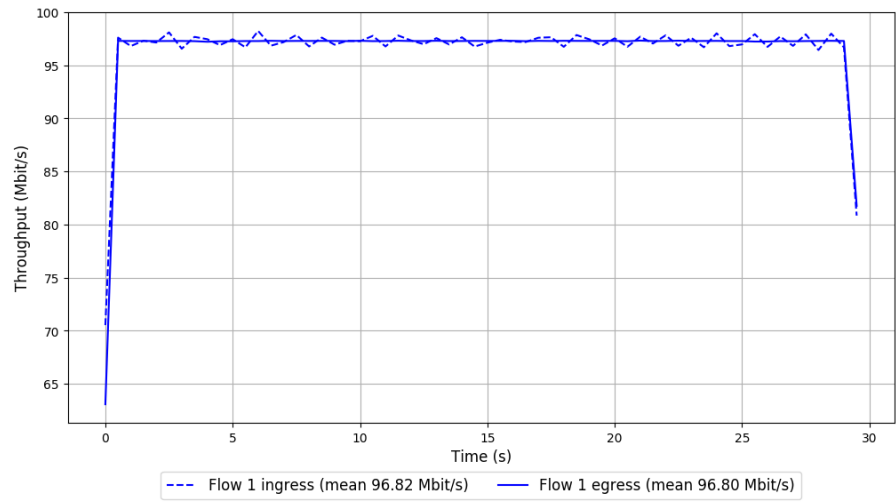


Run 10: Statistics of FillP

Start at: 2018-01-02 00:26:14
End at: 2018-01-02 00:26:44
Local clock offset: -9.248 ms
Remote clock offset: -11.246 ms

Below is generated by plot.py at 2018-01-02 03:45:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.80 Mbit/s
95th percentile per-packet one-way delay: 41.473 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 96.80 Mbit/s
95th percentile per-packet one-way delay: 41.473 ms
Loss rate: 0.11%

Run 10: Report of FillP — Data Link

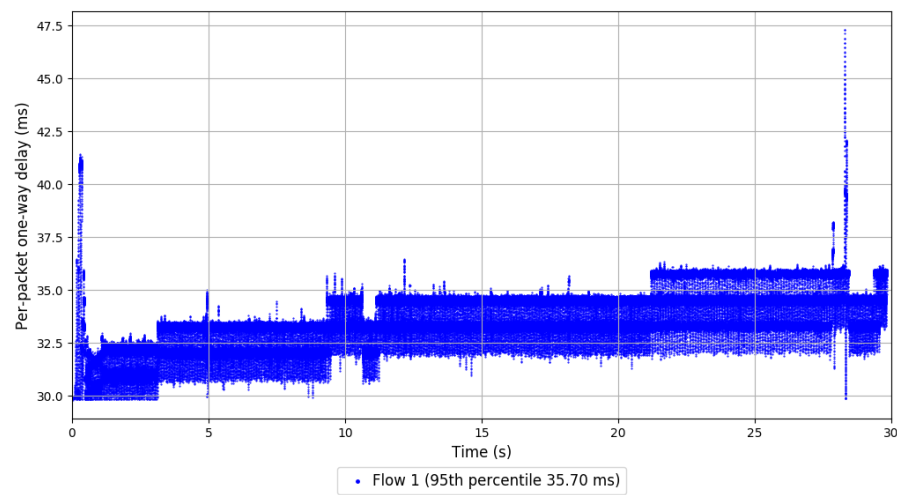
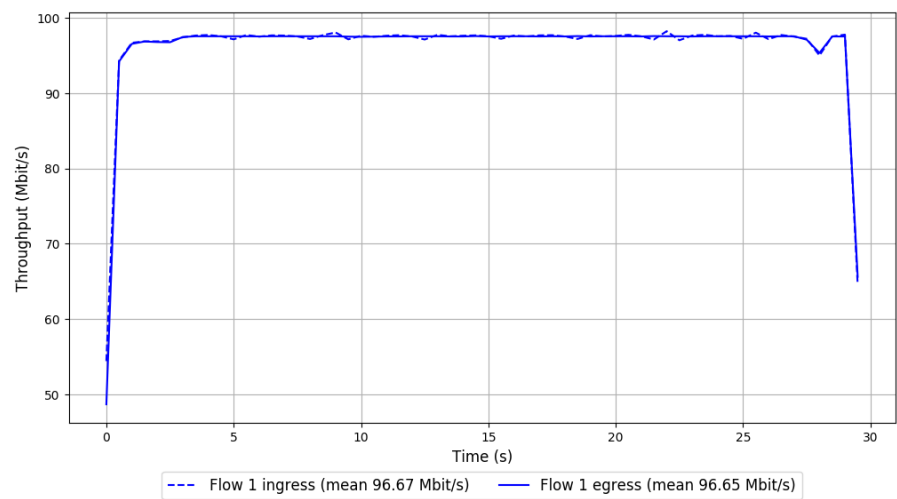


```
Run 1: Statistics of Indigo

Start at: 2018-01-01 21:42:09
End at: 2018-01-01 21:42:39
Local clock offset: -7.228 ms
Remote clock offset: -19.987 ms

# Below is generated by plot.py at 2018-01-02 03:45:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.65 Mbit/s
95th percentile per-packet one-way delay: 35.703 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.65 Mbit/s
95th percentile per-packet one-way delay: 35.703 ms
Loss rate: 0.10%
```

Run 1: Report of Indigo — Data Link

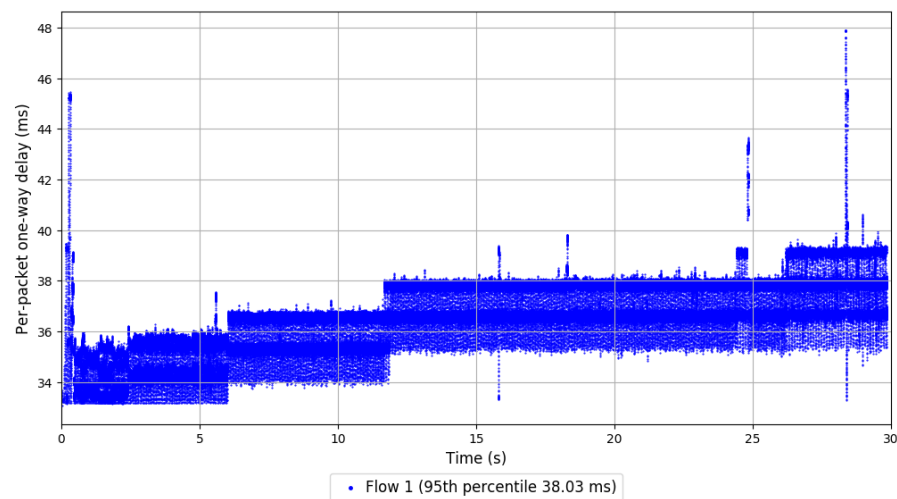
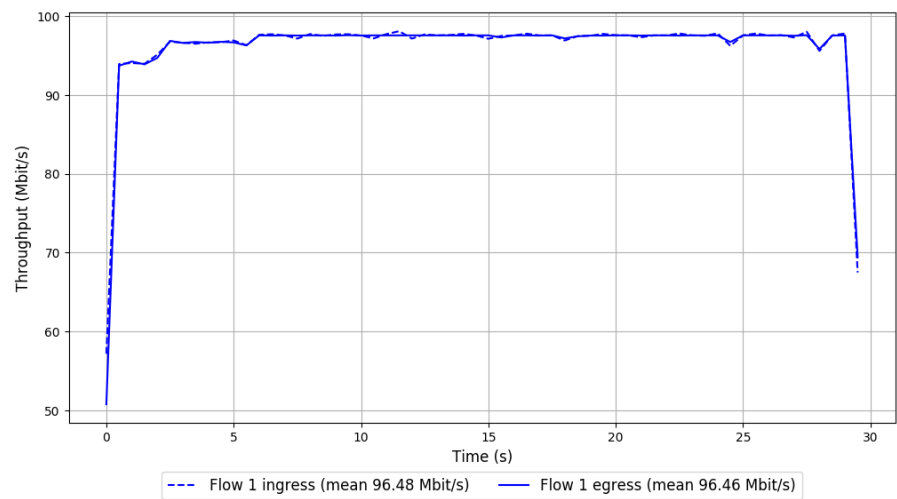


Run 2: Statistics of Indigo

Start at: 2018-01-01 21:59:52
End at: 2018-01-01 22:00:22
Local clock offset: -3.0 ms
Remote clock offset: -19.685 ms

Below is generated by plot.py at 2018-01-02 03:45:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.46 Mbit/s
95th percentile per-packet one-way delay: 38.031 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.46 Mbit/s
95th percentile per-packet one-way delay: 38.031 ms
Loss rate: 0.10%

Run 2: Report of Indigo — Data Link

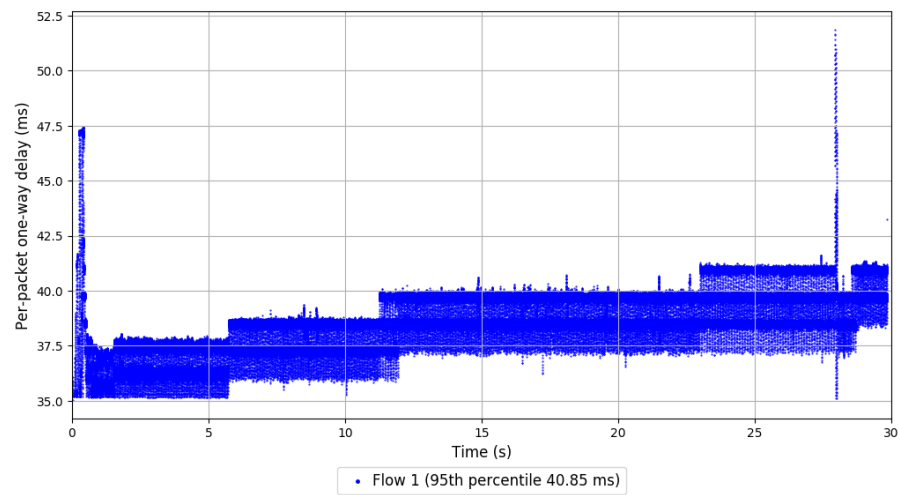
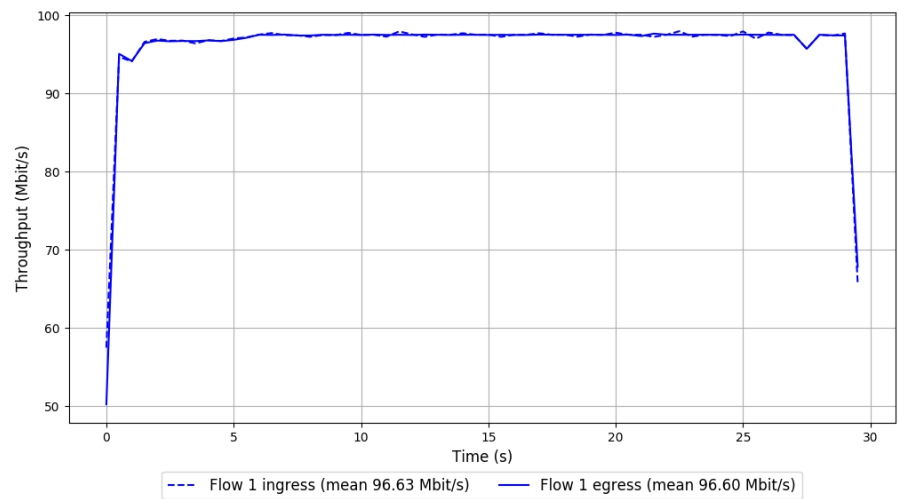


Run 3: Statistics of Indigo

Start at: 2018-01-01 22:17:22
End at: 2018-01-01 22:17:52
Local clock offset: -3.042 ms
Remote clock offset: -20.325 ms

Below is generated by plot.py at 2018-01-02 03:45:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.60 Mbit/s
95th percentile per-packet one-way delay: 40.851 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.60 Mbit/s
95th percentile per-packet one-way delay: 40.851 ms
Loss rate: 0.10%

Run 3: Report of Indigo — Data Link

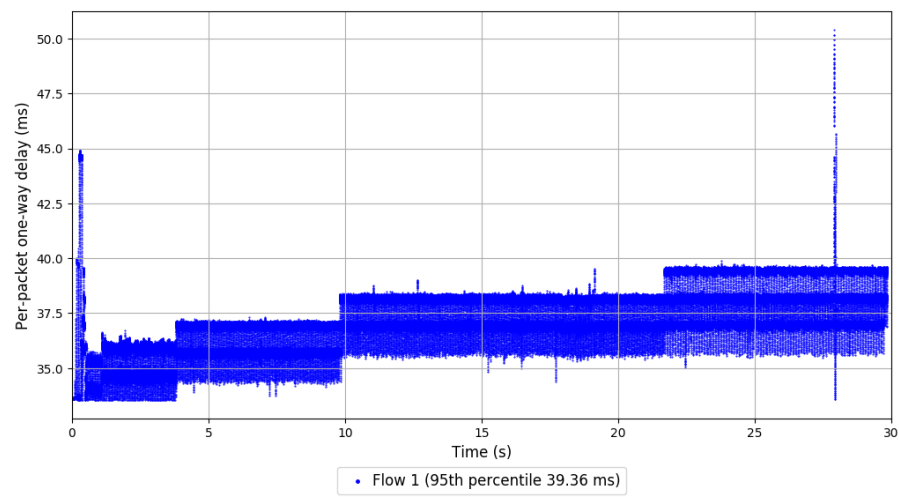
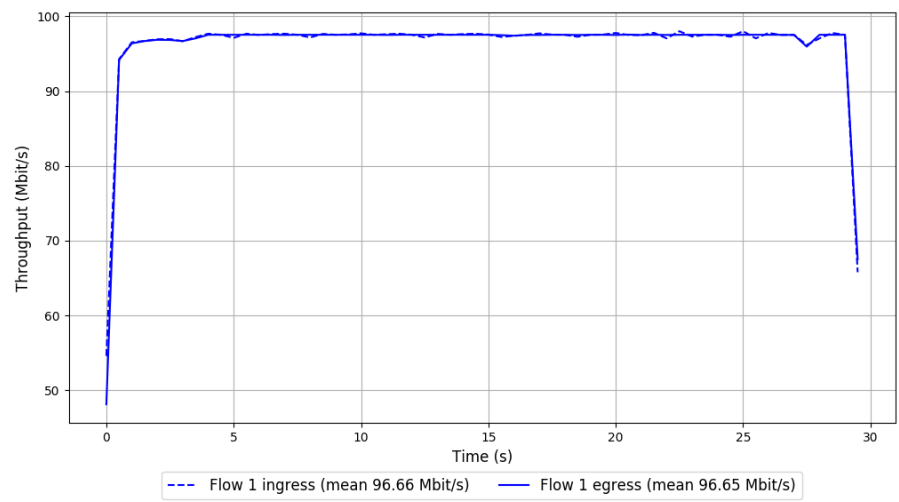


Run 4: Statistics of Indigo

Start at: 2018-01-01 22:34:31
End at: 2018-01-01 22:35:02
Local clock offset: -1.012 ms
Remote clock offset: -18.527 ms

Below is generated by plot.py at 2018-01-02 03:45:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.65 Mbit/s
95th percentile per-packet one-way delay: 39.357 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.65 Mbit/s
95th percentile per-packet one-way delay: 39.357 ms
Loss rate: 0.10%

Run 4: Report of Indigo — Data Link

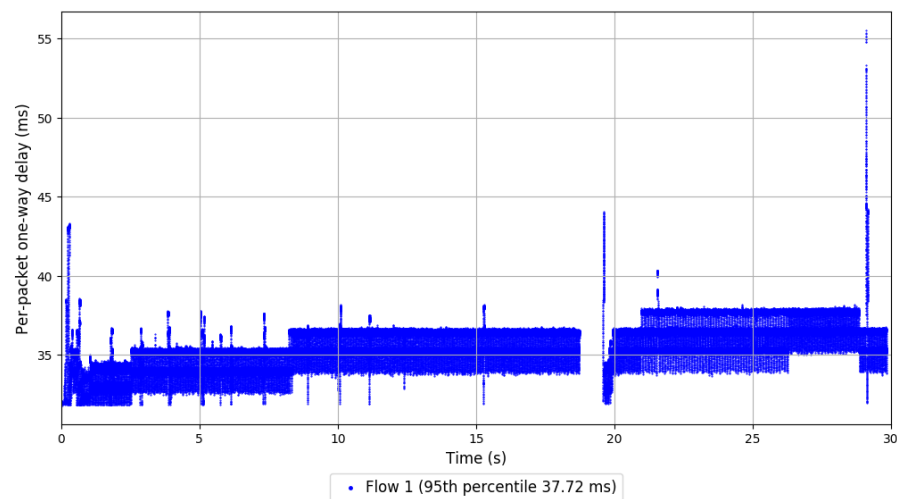
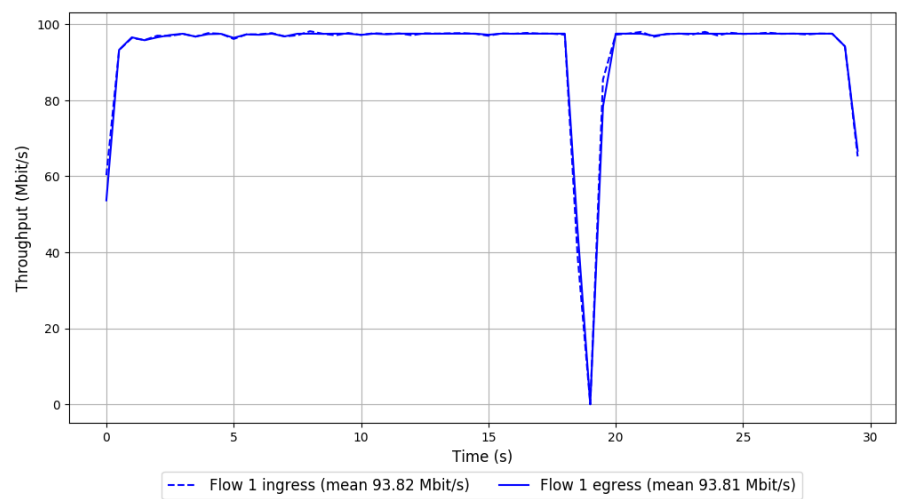


Run 5: Statistics of Indigo

Start at: 2018-01-01 22:51:45
End at: 2018-01-01 22:52:15
Local clock offset: -2.471 ms
Remote clock offset: -14.933 ms

Below is generated by plot.py at 2018-01-02 03:46:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.81 Mbit/s
95th percentile per-packet one-way delay: 37.717 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 93.81 Mbit/s
95th percentile per-packet one-way delay: 37.717 ms
Loss rate: 0.10%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

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

End at: 2018-01-01 23:09:27

Local clock offset: -3.216 ms

Remote clock offset: -16.164 ms

Below is generated by plot.py at 2018-01-02 03:46:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.30 Mbit/s

95th percentile per-packet one-way delay: 39.042 ms

Loss rate: 0.10%

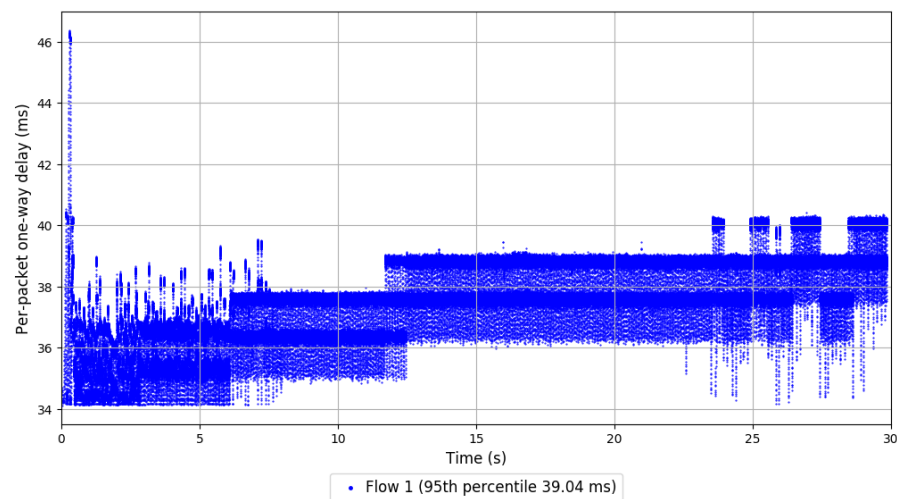
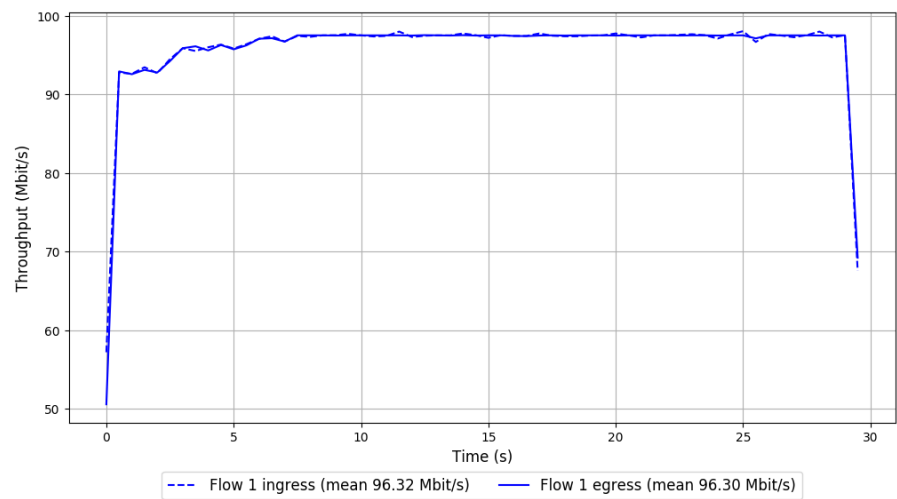
-- Flow 1:

Average throughput: 96.30 Mbit/s

95th percentile per-packet one-way delay: 39.042 ms

Loss rate: 0.10%

Run 6: Report of Indigo — Data Link

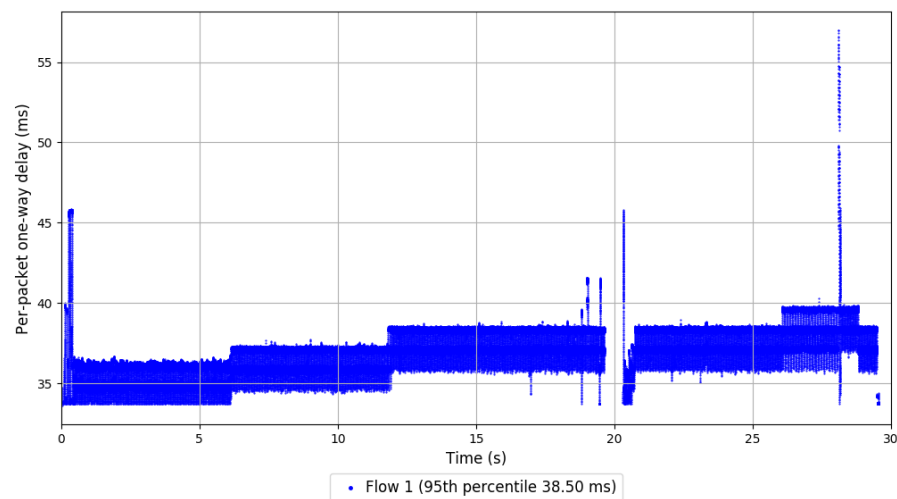
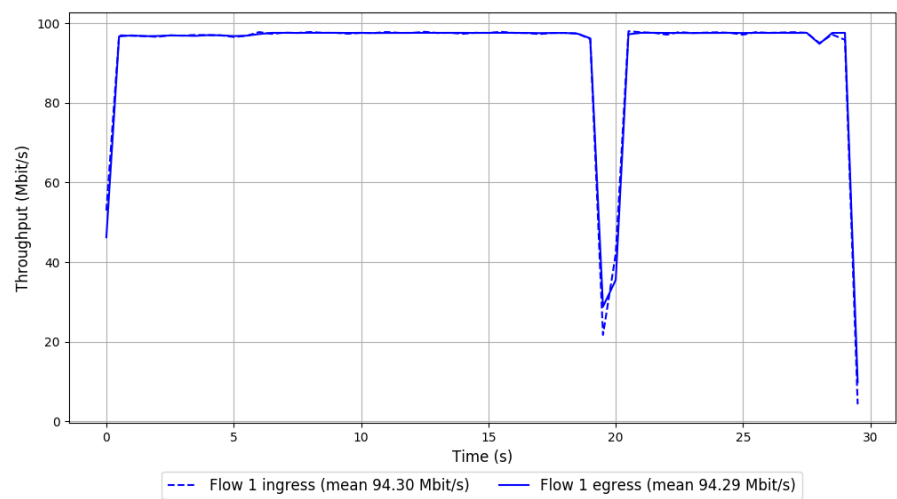


Run 7: Statistics of Indigo

Start at: 2018-01-01 23:26:13
End at: 2018-01-01 23:26:43
Local clock offset: -4.11 ms
Remote clock offset: -15.219 ms

Below is generated by plot.py at 2018-01-02 03:46:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.29 Mbit/s
95th percentile per-packet one-way delay: 38.499 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 94.29 Mbit/s
95th percentile per-packet one-way delay: 38.499 ms
Loss rate: 0.00%

Run 7: Report of Indigo — Data Link

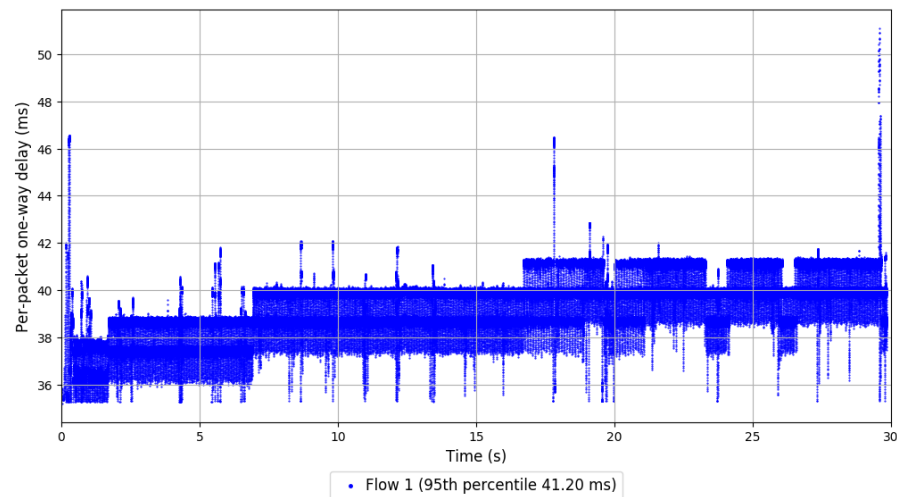
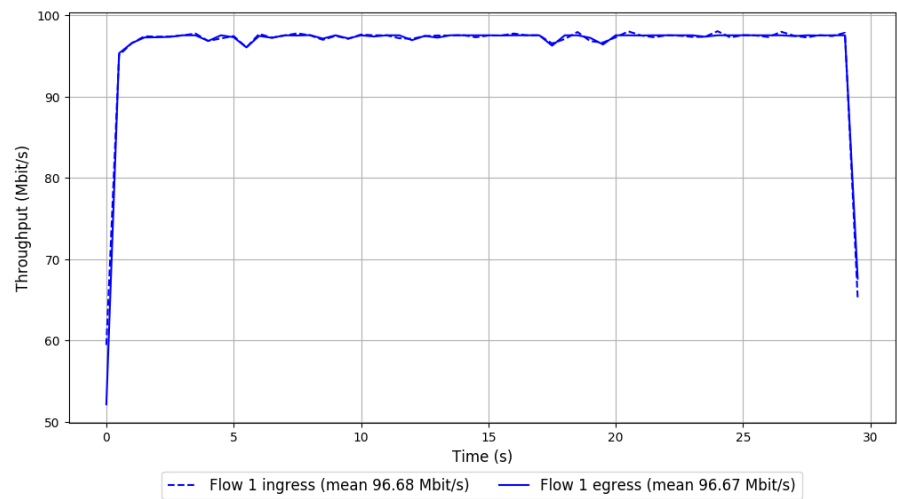


Run 8: Statistics of Indigo

Start at: 2018-01-01 23:43:27
End at: 2018-01-01 23:43:57
Local clock offset: -4.051 ms
Remote clock offset: -14.866 ms

Below is generated by plot.py at 2018-01-02 03:46:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.67 Mbit/s
95th percentile per-packet one-way delay: 41.198 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.67 Mbit/s
95th percentile per-packet one-way delay: 41.198 ms
Loss rate: 0.10%

Run 8: Report of Indigo — Data Link

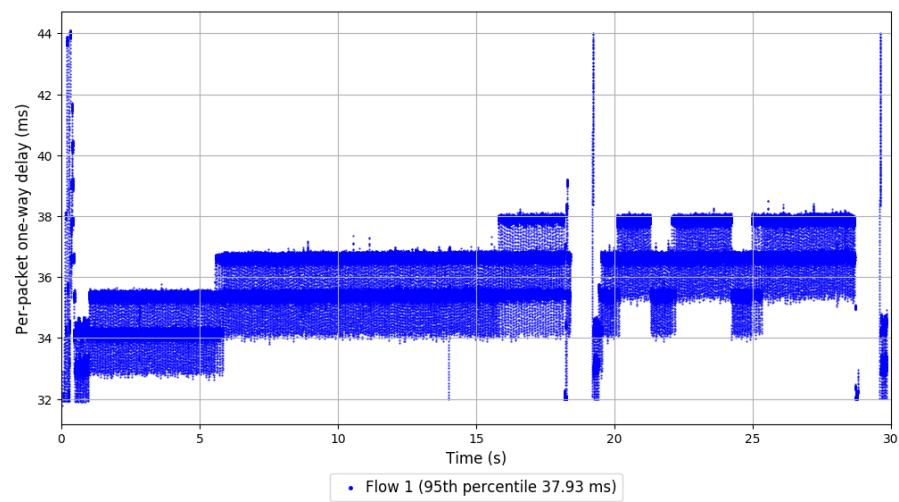
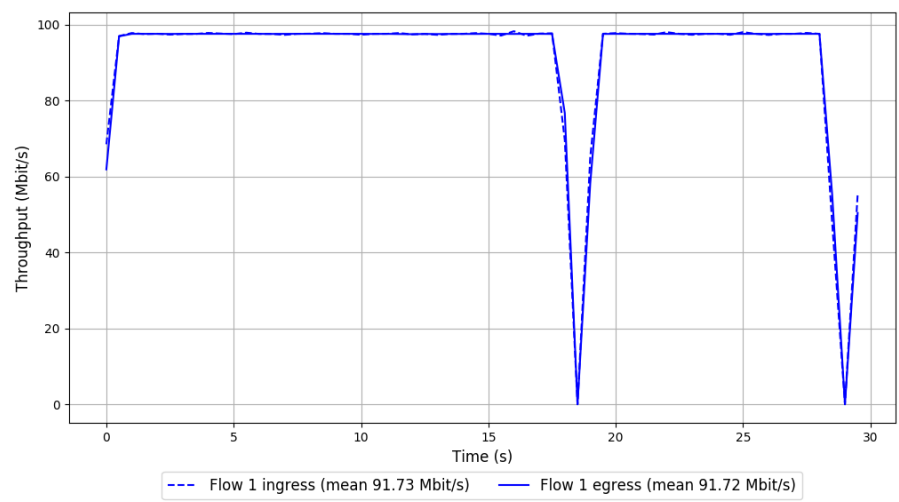


Run 9: Statistics of Indigo

Start at: 2018-01-02 00:00:50
End at: 2018-01-02 00:01:21
Local clock offset: -8.044 ms
Remote clock offset: -13.296 ms

Below is generated by plot.py at 2018-01-02 03:46:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.72 Mbit/s
95th percentile per-packet one-way delay: 37.930 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 91.72 Mbit/s
95th percentile per-packet one-way delay: 37.930 ms
Loss rate: 0.09%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-02 00:18:06
End at: 2018-01-02 00:18:36
Local clock offset: -7.994 ms
Remote clock offset: -10.349 ms

Below is generated by plot.py at 2018-01-02 03:46:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.85 Mbit/s
95th percentile per-packet one-way delay: 37.902 ms
Loss rate: 0.04%

-- Flow 1:

Average throughput: 93.85 Mbit/s
95th percentile per-packet one-way delay: 37.902 ms
Loss rate: 0.04%

Run 10: Report of Indigo — Data Link

