

Pantheon Report

Generated at 2018-01-02 05:09:45 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

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

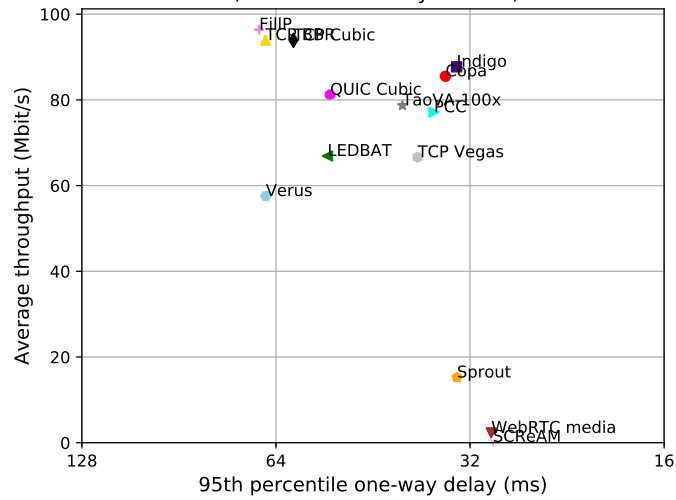
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

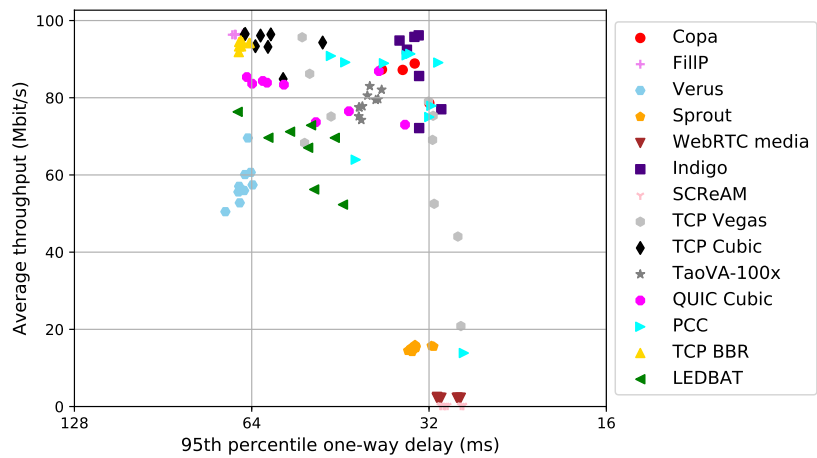
Git summary:

```
branch: master @ 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 @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from AWS California 2 Ethernet to Mexico Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from AWS California 2 Ethernet to Mexico Ethernet, 10 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	93.94	66.44	21.95
TCP Cubic	8	93.88	60.13	0.25
LEDBAT	8	66.91	53.25	0.03
PCC	10	77.11	36.40	0.50
QUIC Cubic	9	81.19	52.76	0.51
SCReAM	9	0.22	29.49	0.00
WebRTC media	10	2.29	29.67	0.01
Sprout	10	15.22	33.53	0.06
TaoVA-100x	10	78.71	40.75	0.04
TCP Vegas	10	66.61	38.59	0.17
Verus	10	57.57	66.37	33.78
Copa	4	85.51	34.94	0.02
FillP	10	96.39	67.96	22.37
Indigo	7	87.71	33.58	0.03

Run 1: Statistics of TCP BBR

Start at: 2018-01-02 01:03:27

End at: 2018-01-02 01:03:57

Local clock offset: -0.511 ms

Remote clock offset: 0.313 ms

Below is generated by plot.py at 2018-01-02 04:53:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.83 Mbit/s

95th percentile per-packet one-way delay: 67.322 ms

Loss rate: 19.24%

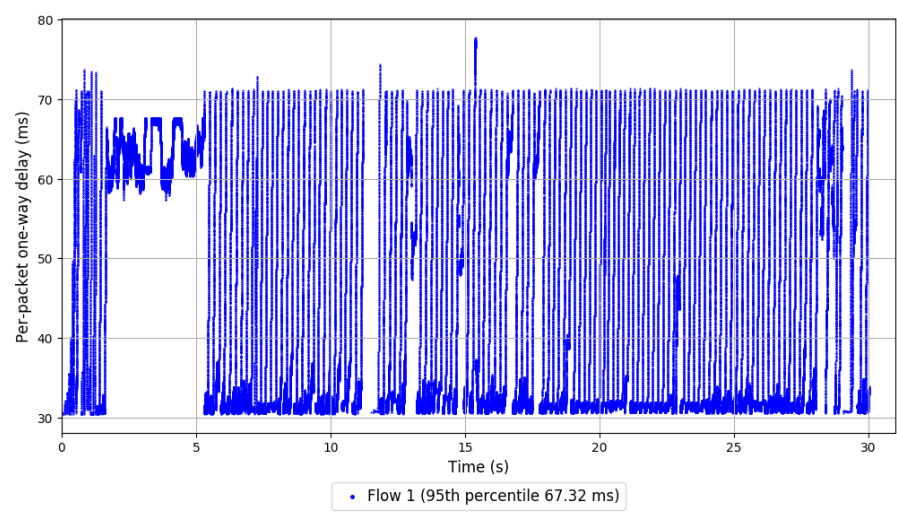
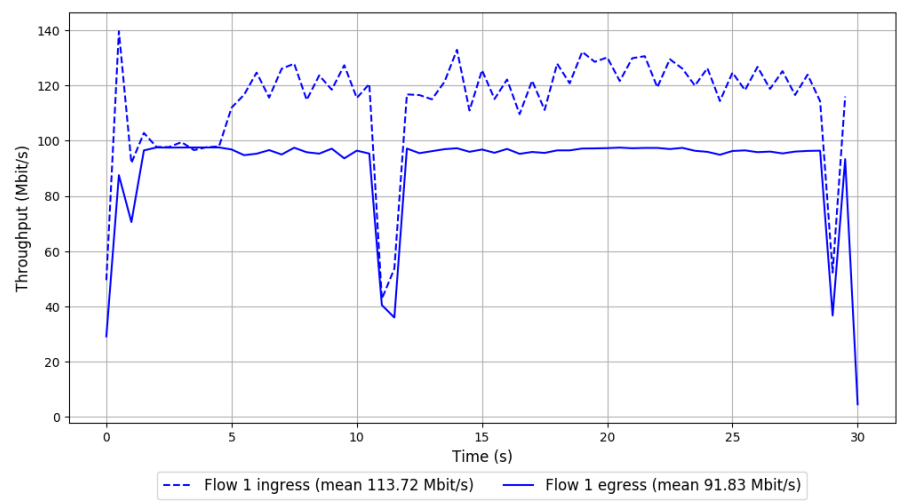
-- Flow 1:

Average throughput: 91.83 Mbit/s

95th percentile per-packet one-way delay: 67.322 ms

Loss rate: 19.24%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-02 01:26:20

End at: 2018-01-02 01:26:50

Local clock offset: -1.849 ms

Remote clock offset: 0.572 ms

Below is generated by plot.py at 2018-01-02 04:53:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.42 Mbit/s

95th percentile per-packet one-way delay: 66.390 ms

Loss rate: 21.69%

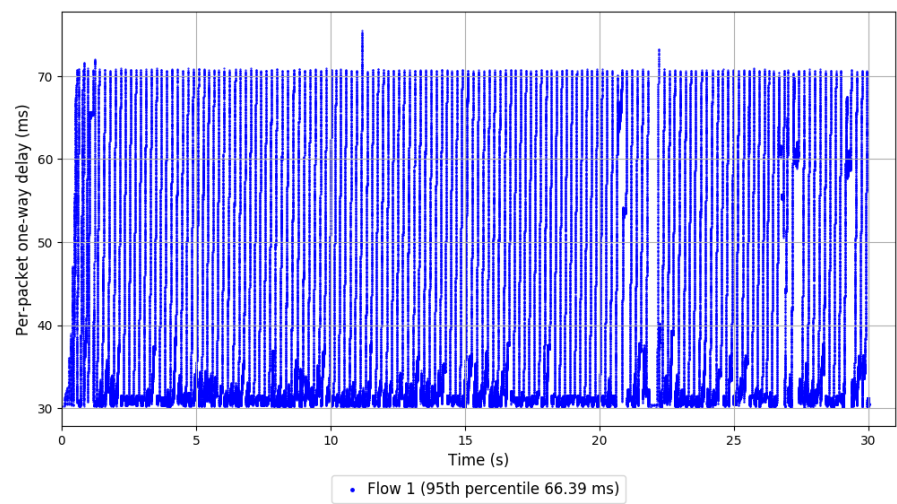
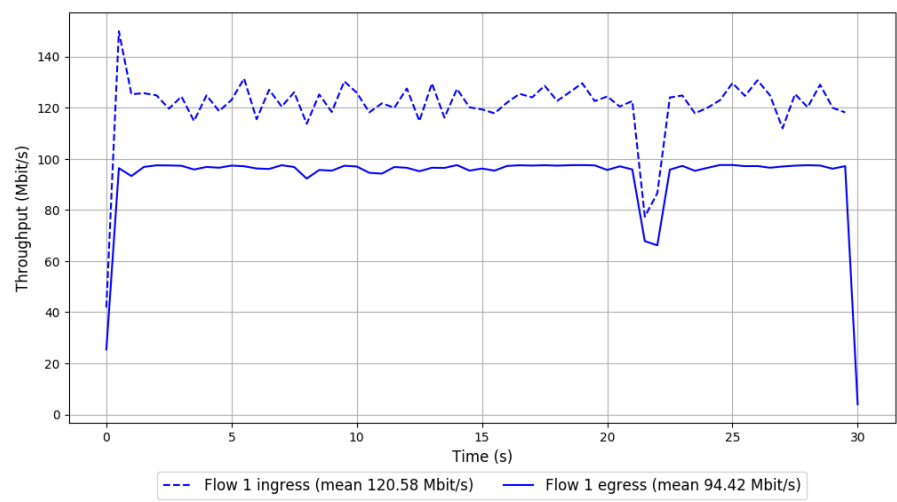
-- Flow 1:

Average throughput: 94.42 Mbit/s

95th percentile per-packet one-way delay: 66.390 ms

Loss rate: 21.69%

Run 2: Report of TCP BBR — Data Link

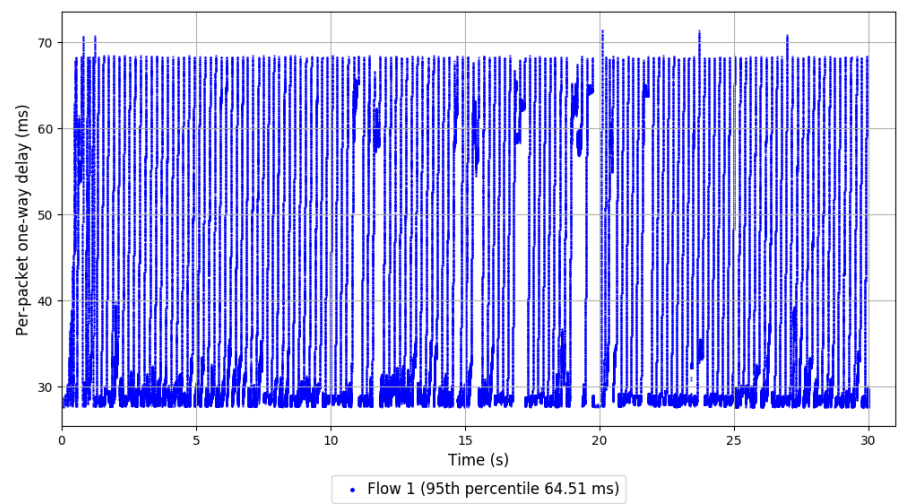
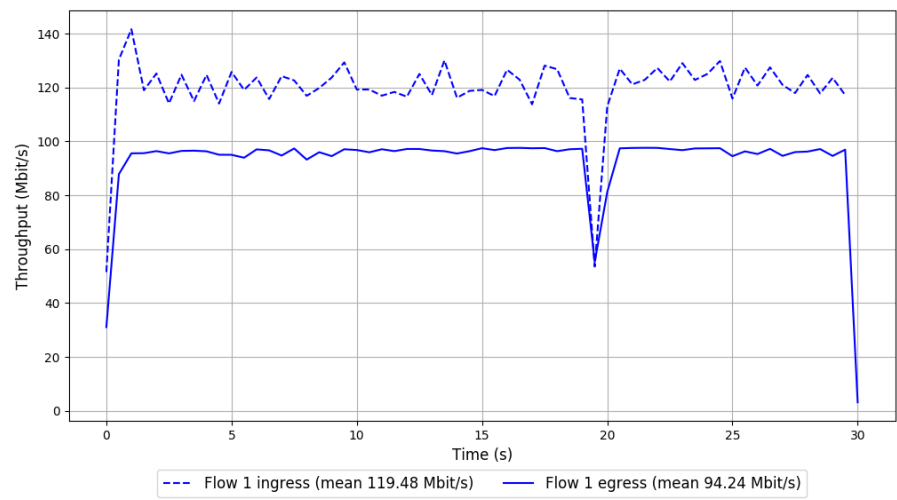


Run 3: Statistics of TCP BBR

Start at: 2018-01-02 01:49:41
End at: 2018-01-02 01:50:11
Local clock offset: -6.578 ms
Remote clock offset: -2.024 ms

Below is generated by plot.py at 2018-01-02 04:53:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.24 Mbit/s
95th percentile per-packet one-way delay: 64.507 ms
Loss rate: 21.12%
-- Flow 1:
Average throughput: 94.24 Mbit/s
95th percentile per-packet one-way delay: 64.507 ms
Loss rate: 21.12%

Run 3: Report of TCP BBR — Data Link

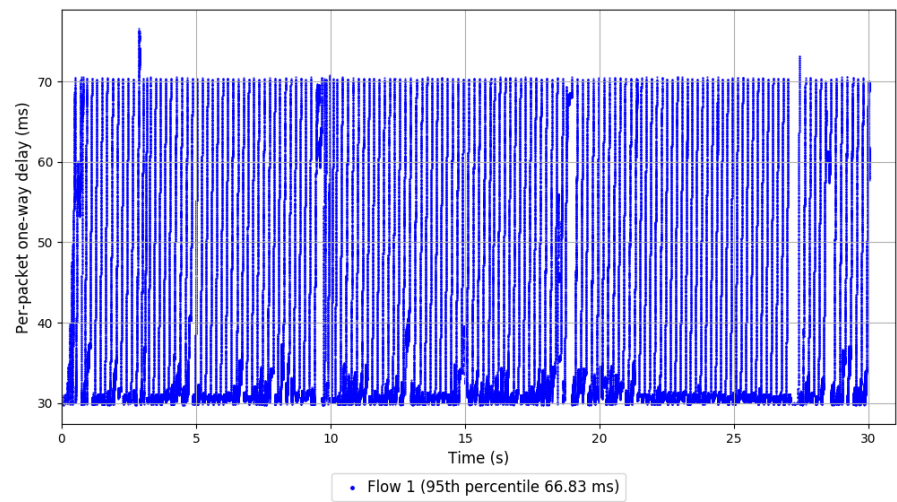
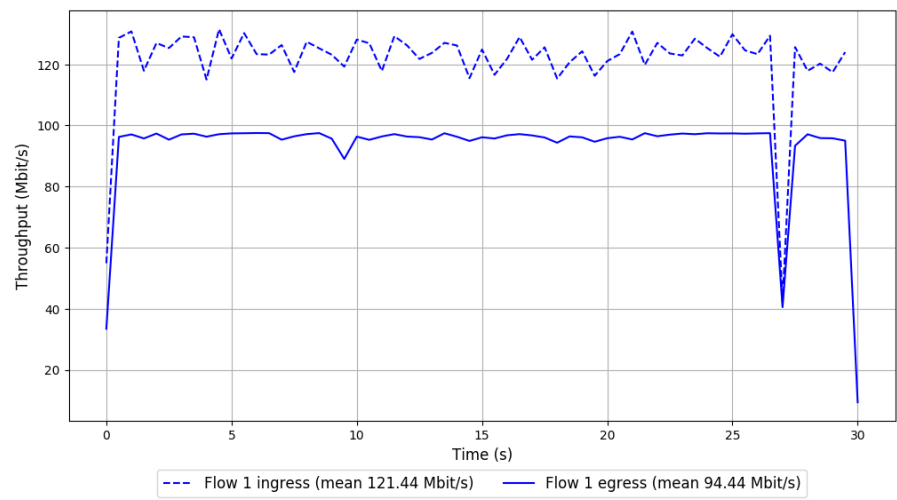


Run 4: Statistics of TCP BBR

Start at: 2018-01-02 02:12:30
End at: 2018-01-02 02:13:00
Local clock offset: -8.284 ms
Remote clock offset: -1.207 ms

Below is generated by plot.py at 2018-01-02 04:53:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.44 Mbit/s
95th percentile per-packet one-way delay: 66.833 ms
Loss rate: 22.16%
-- Flow 1:
Average throughput: 94.44 Mbit/s
95th percentile per-packet one-way delay: 66.833 ms
Loss rate: 22.16%

Run 4: Report of TCP BBR — Data Link

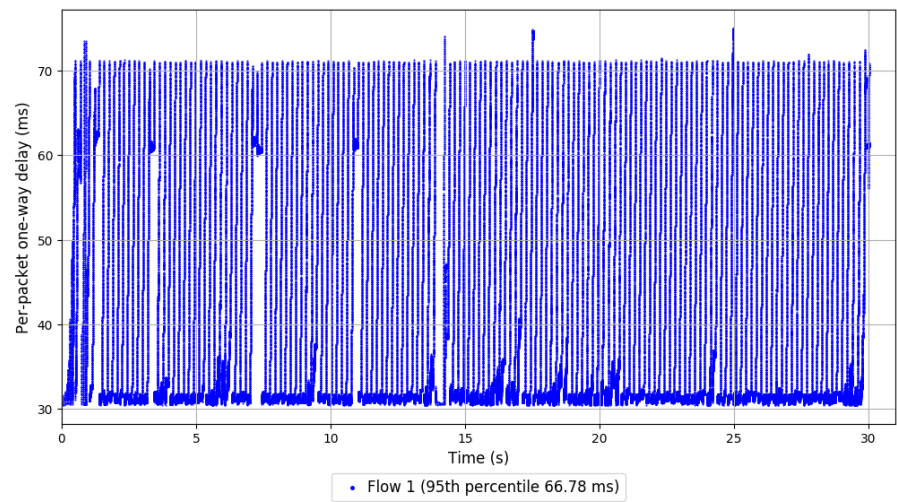
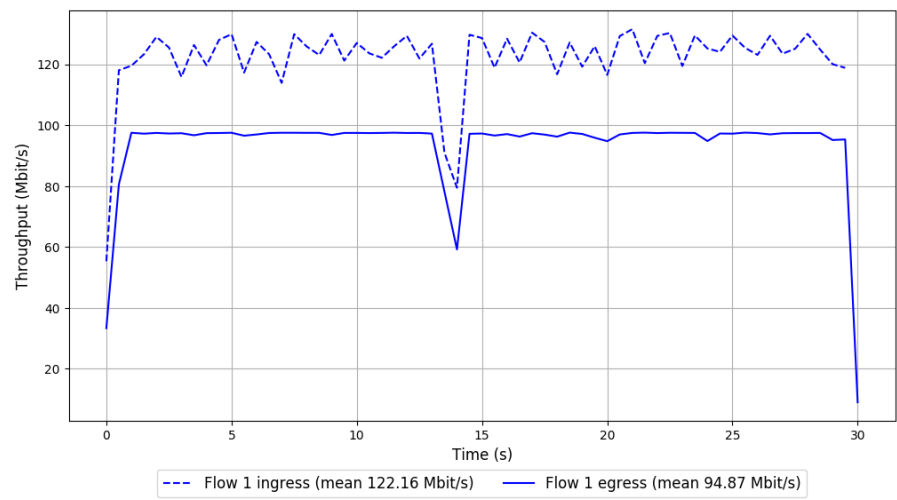


Run 5: Statistics of TCP BBR

Start at: 2018-01-02 02:34:00
End at: 2018-01-02 02:34:30
Local clock offset: -8.507 ms
Remote clock offset: -1.156 ms

Below is generated by plot.py at 2018-01-02 04:53:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.87 Mbit/s
95th percentile per-packet one-way delay: 66.783 ms
Loss rate: 22.27%
-- Flow 1:
Average throughput: 94.87 Mbit/s
95th percentile per-packet one-way delay: 66.783 ms
Loss rate: 22.27%

Run 5: Report of TCP BBR — Data Link

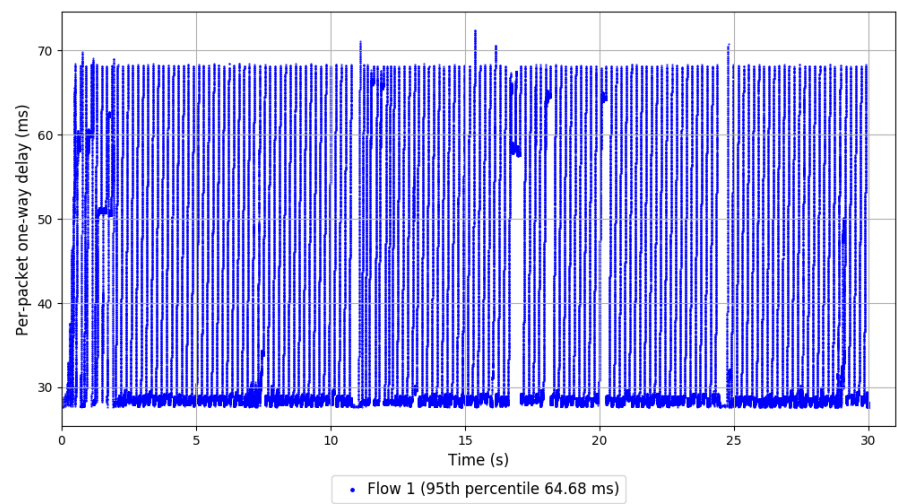
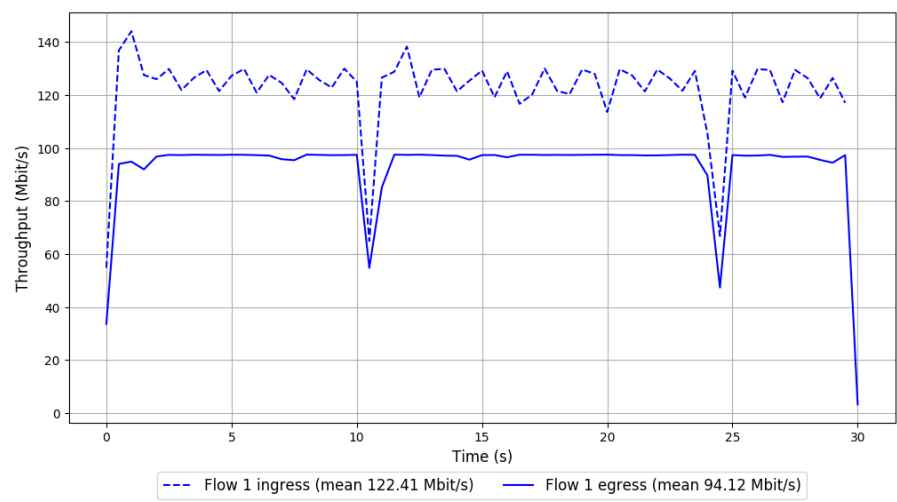


Run 6: Statistics of TCP BBR

Start at: 2018-01-02 02:54:45
End at: 2018-01-02 02:55:15
Local clock offset: -9.879 ms
Remote clock offset: -3.007 ms

Below is generated by plot.py at 2018-01-02 04:53:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.12 Mbit/s
95th percentile per-packet one-way delay: 64.679 ms
Loss rate: 23.11%
-- Flow 1:
Average throughput: 94.12 Mbit/s
95th percentile per-packet one-way delay: 64.679 ms
Loss rate: 23.11%

Run 6: Report of TCP BBR — Data Link

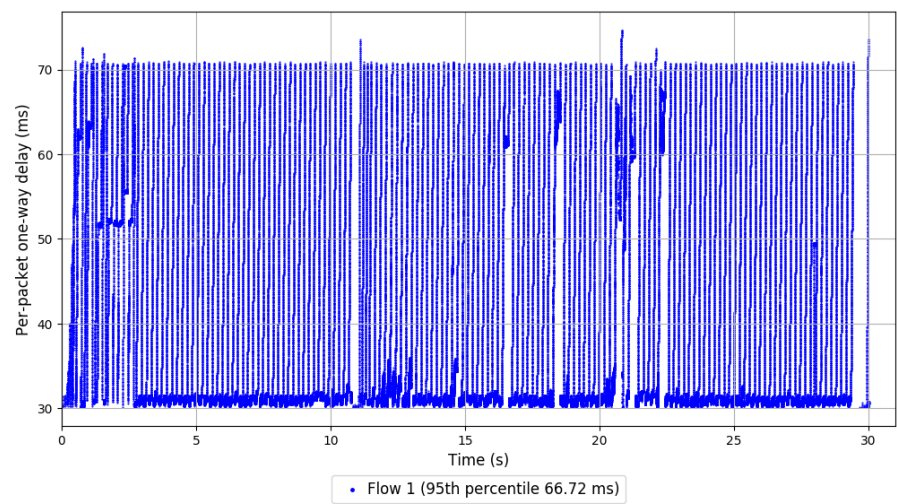
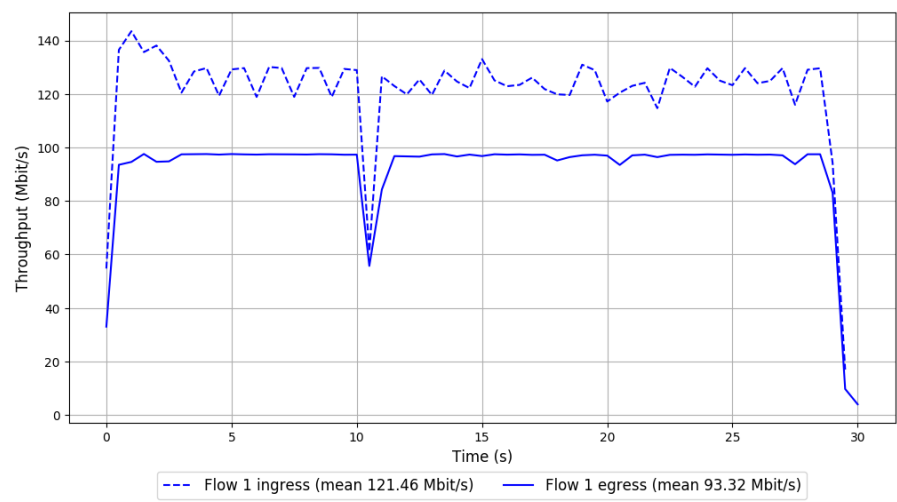


Run 7: Statistics of TCP BBR

Start at: 2018-01-02 03:15:34
End at: 2018-01-02 03:16:04
Local clock offset: -11.699 ms
Remote clock offset: 0.786 ms

Below is generated by plot.py at 2018-01-02 04:53:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.32 Mbit/s
95th percentile per-packet one-way delay: 66.719 ms
Loss rate: 23.17%
-- Flow 1:
Average throughput: 93.32 Mbit/s
95th percentile per-packet one-way delay: 66.719 ms
Loss rate: 23.17%

Run 7: Report of TCP BBR — Data Link

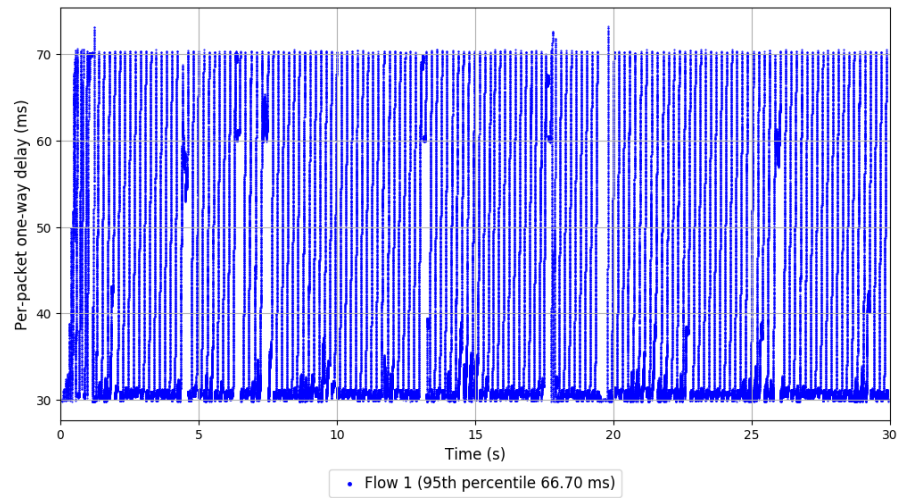
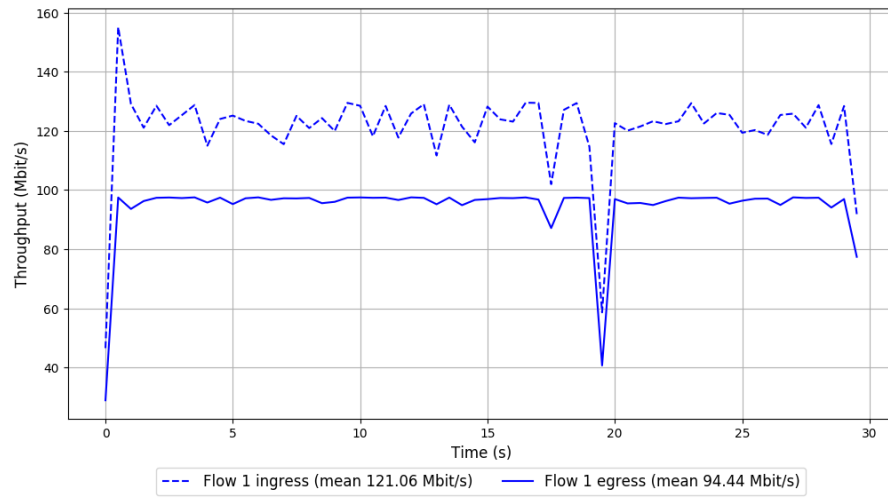


Run 8: Statistics of TCP BBR

Start at: 2018-01-02 03:36:43
End at: 2018-01-02 03:37:13
Local clock offset: -12.796 ms
Remote clock offset: 0.846 ms

Below is generated by plot.py at 2018-01-02 04:53:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.44 Mbit/s
95th percentile per-packet one-way delay: 66.704 ms
Loss rate: 21.99%
-- Flow 1:
Average throughput: 94.44 Mbit/s
95th percentile per-packet one-way delay: 66.704 ms
Loss rate: 21.99%

Run 8: Report of TCP BBR — Data Link

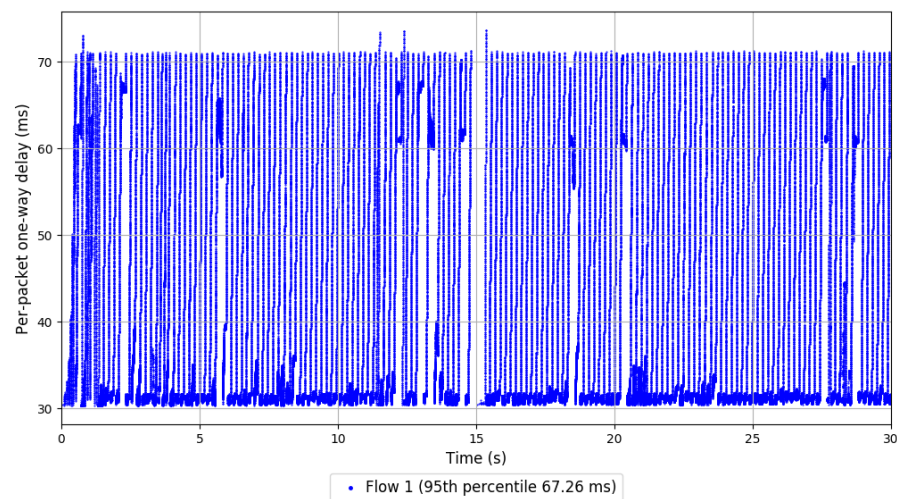
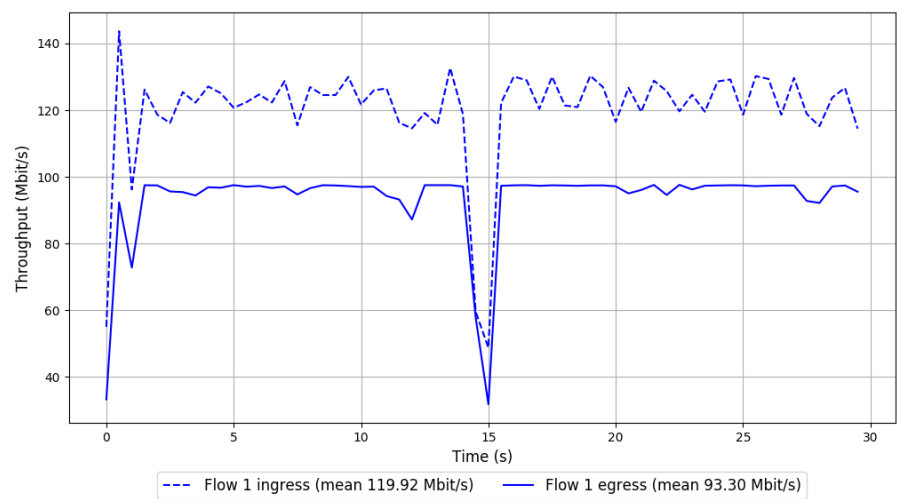


Run 9: Statistics of TCP BBR

Start at: 2018-01-02 03:57:51
End at: 2018-01-02 03:58:21
Local clock offset: -13.668 ms
Remote clock offset: 0.924 ms

Below is generated by plot.py at 2018-01-02 04:54:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.30 Mbit/s
95th percentile per-packet one-way delay: 67.260 ms
Loss rate: 22.20%
-- Flow 1:
Average throughput: 93.30 Mbit/s
95th percentile per-packet one-way delay: 67.260 ms
Loss rate: 22.20%

Run 9: Report of TCP BBR — Data Link

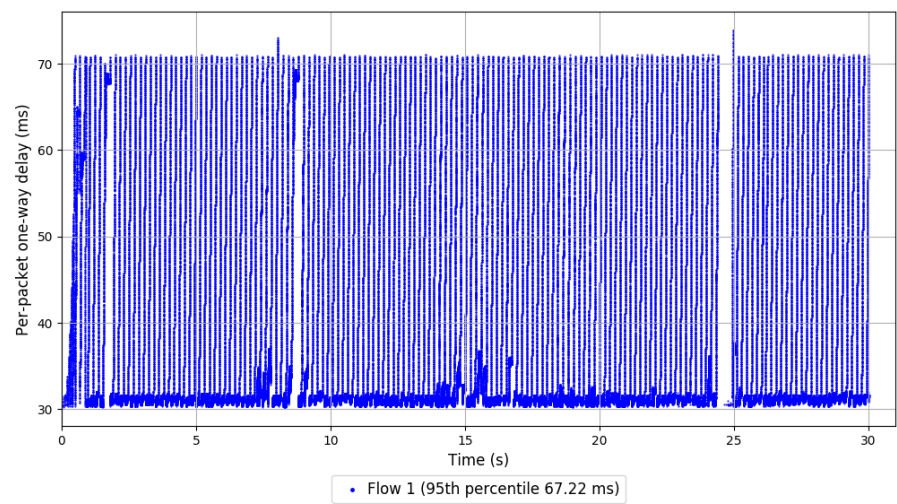
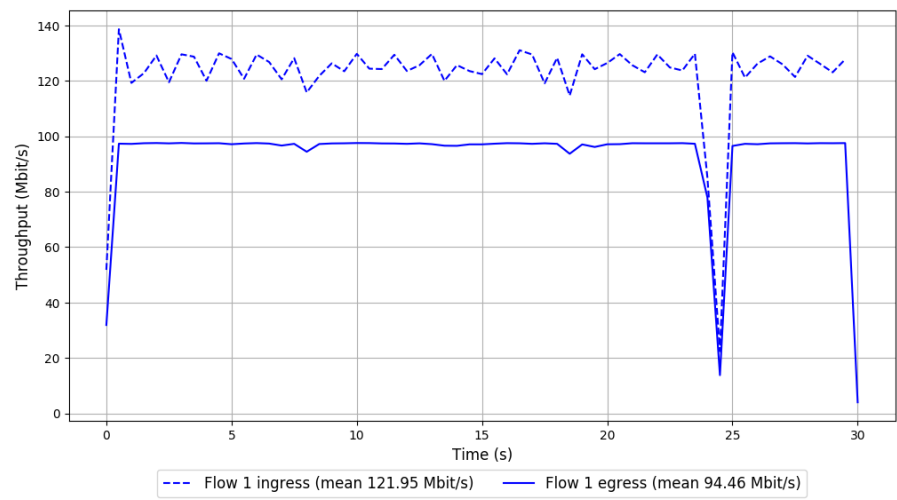


Run 10: Statistics of TCP BBR

Start at: 2018-01-02 04:18:59
End at: 2018-01-02 04:19:29
Local clock offset: -10.585 ms
Remote clock offset: 0.202 ms

Below is generated by plot.py at 2018-01-02 04:54:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.46 Mbit/s
95th percentile per-packet one-way delay: 67.221 ms
Loss rate: 22.54%
-- Flow 1:
Average throughput: 94.46 Mbit/s
95th percentile per-packet one-way delay: 67.221 ms
Loss rate: 22.54%

Run 10: Report of TCP BBR — Data Link

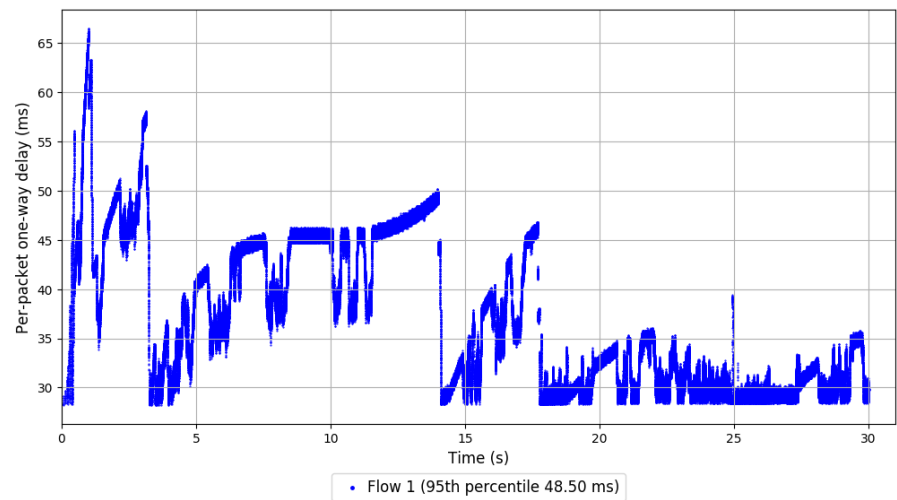
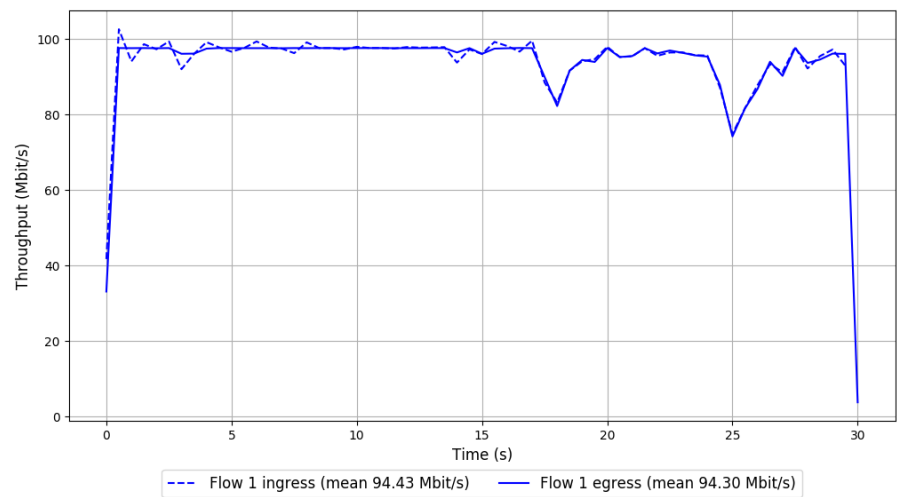


Run 1: Statistics of TCP Cubic

Start at: 2018-01-02 01:01:49
End at: 2018-01-02 01:02:19
Local clock offset: -1.474 ms
Remote clock offset: -2.218 ms

Below is generated by plot.py at 2018-01-02 04:54:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.30 Mbit/s
95th percentile per-packet one-way delay: 48.501 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 94.30 Mbit/s
95th percentile per-packet one-way delay: 48.501 ms
Loss rate: 0.13%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-02 01:24:47

End at: 2018-01-02 01:25:17

Local clock offset: -1.436 ms

Remote clock offset: 0.654 ms

Below is generated by plot.py at 2018-01-02 04:54:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.85 Mbit/s

95th percentile per-packet one-way delay: 56.602 ms

Loss rate: 0.23%

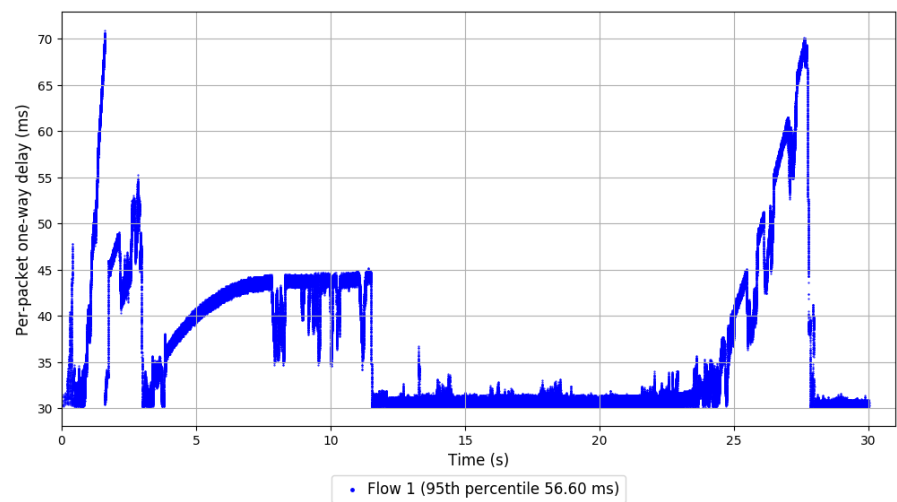
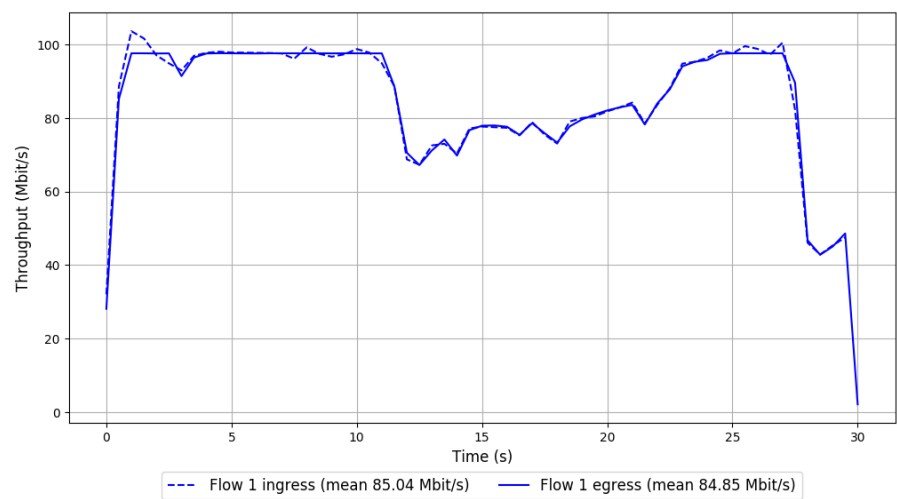
-- Flow 1:

Average throughput: 84.85 Mbit/s

95th percentile per-packet one-way delay: 56.602 ms

Loss rate: 0.23%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-02 01:48:03

End at: 2018-01-02 01:48:33

Local clock offset: -6.224 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-01-02 04:54:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.17 Mbit/s

95th percentile per-packet one-way delay: 60.066 ms

Loss rate: 0.35%

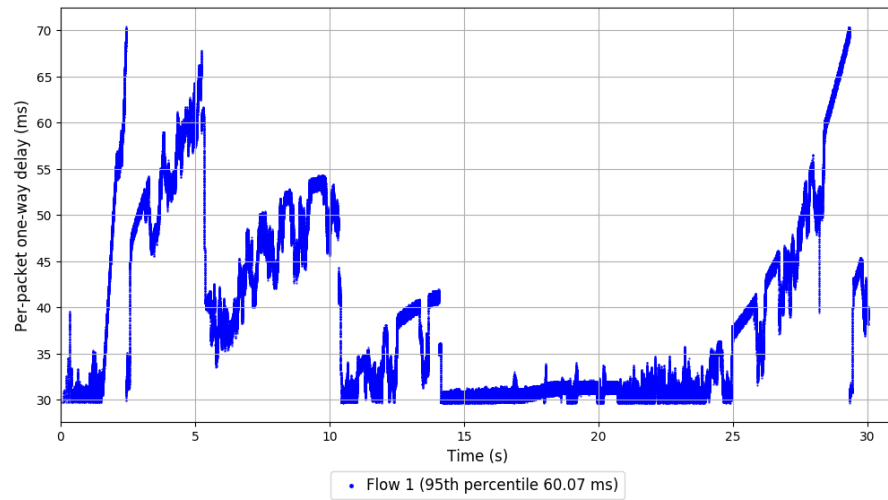
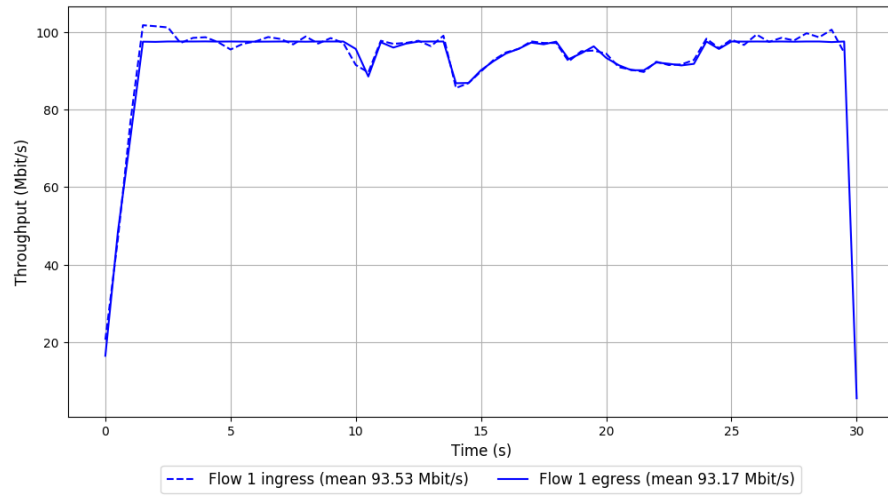
-- Flow 1:

Average throughput: 93.17 Mbit/s

95th percentile per-packet one-way delay: 60.066 ms

Loss rate: 0.35%

Run 3: Report of TCP Cubic — Data Link

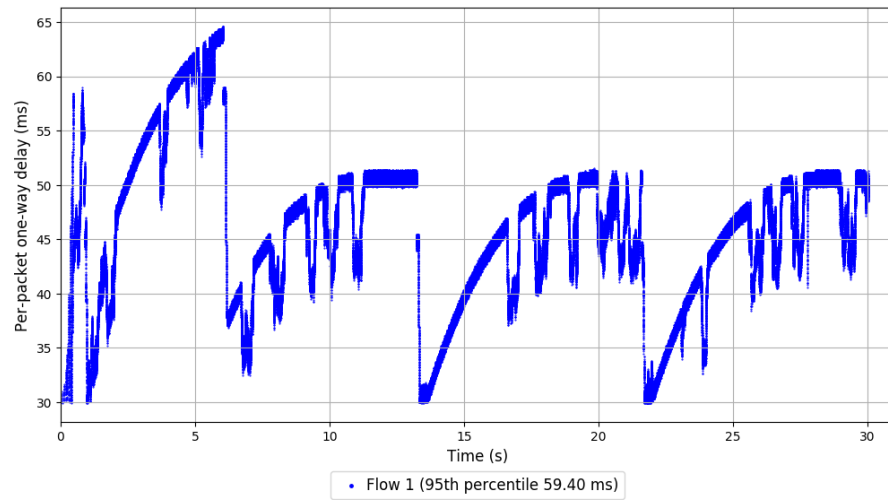
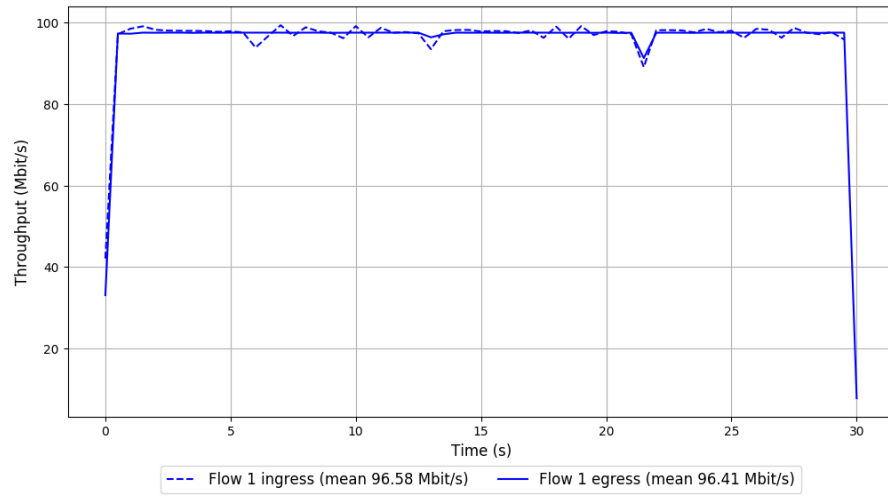


Run 4: Statistics of TCP Cubic

Start at: 2018-01-02 02:10:56
End at: 2018-01-02 02:11:26
Local clock offset: -8.338 ms
Remote clock offset: -1.066 ms

Below is generated by plot.py at 2018-01-02 04:54:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.41 Mbit/s
95th percentile per-packet one-way delay: 59.397 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.41 Mbit/s
95th percentile per-packet one-way delay: 59.397 ms
Loss rate: 0.10%

Run 4: Report of TCP Cubic — Data Link

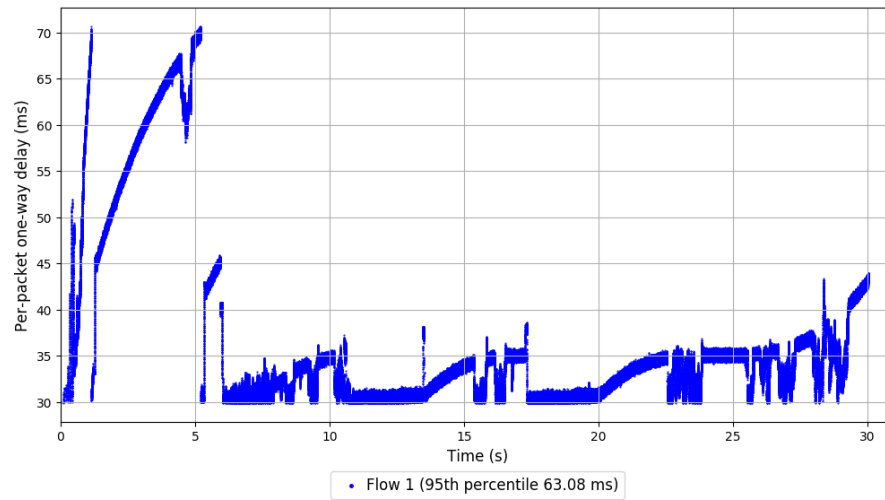
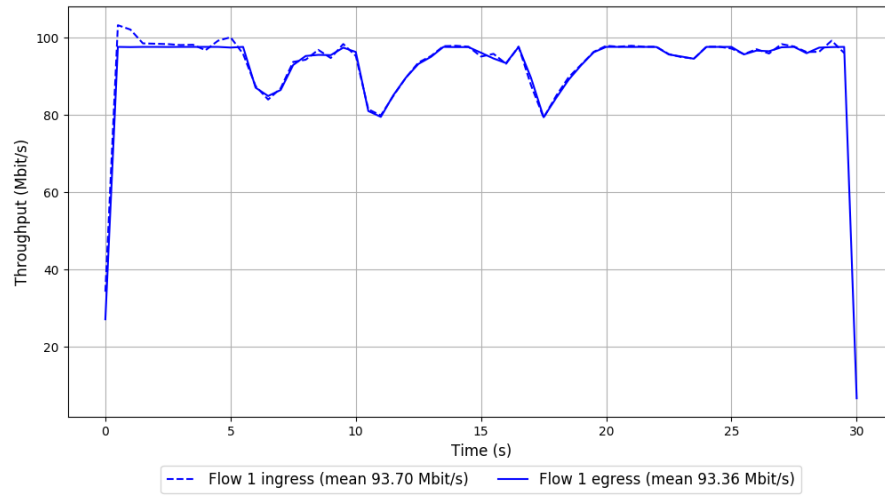


Run 5: Statistics of TCP Cubic

Start at: 2018-01-02 02:32:30
End at: 2018-01-02 02:33:00
Local clock offset: -8.425 ms
Remote clock offset: -1.758 ms

Below is generated by plot.py at 2018-01-02 04:54:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.36 Mbit/s
95th percentile per-packet one-way delay: 63.080 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 93.36 Mbit/s
95th percentile per-packet one-way delay: 63.080 ms
Loss rate: 0.32%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

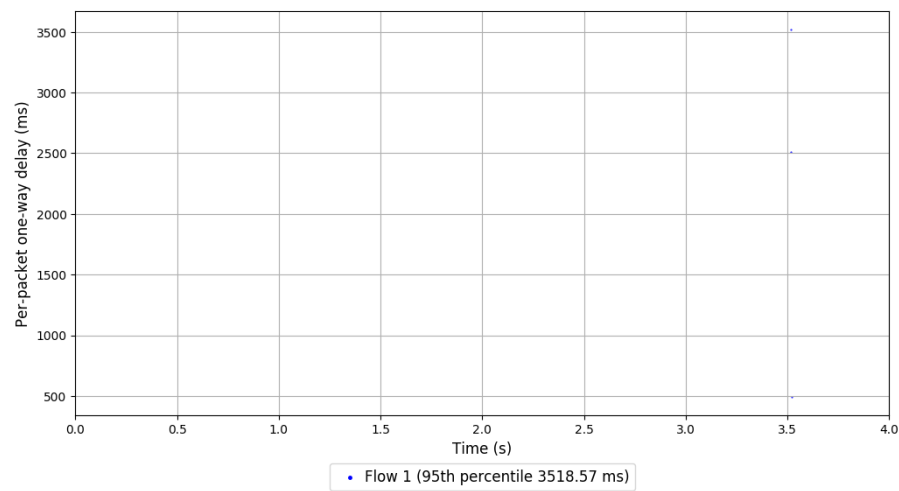
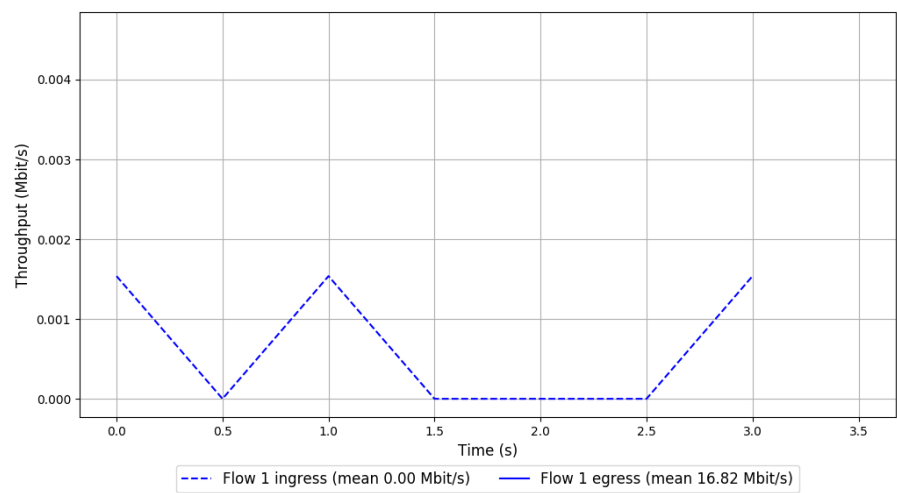
Start at: 2018-01-02 02:53:30

End at: 2018-01-02 02:54:00

Local clock offset: -9.872 ms

Remote clock offset: -0.436 ms

Run 6: Report of TCP Cubic — Data Link

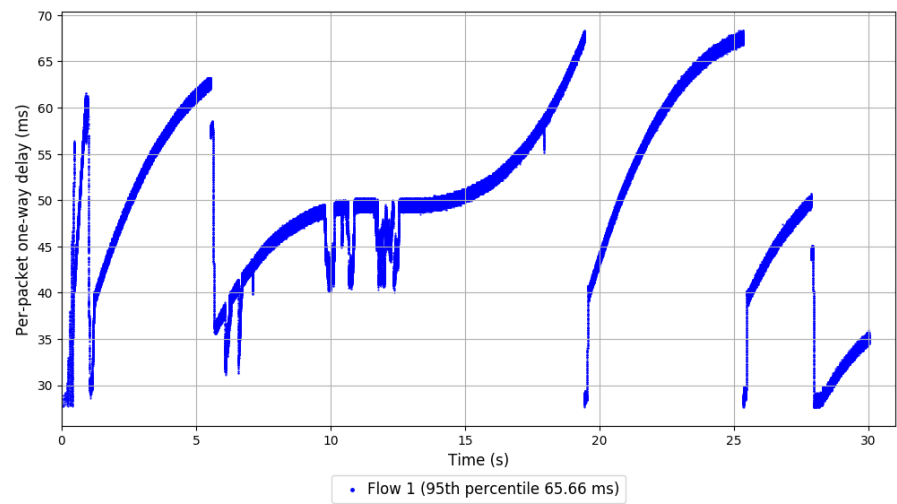
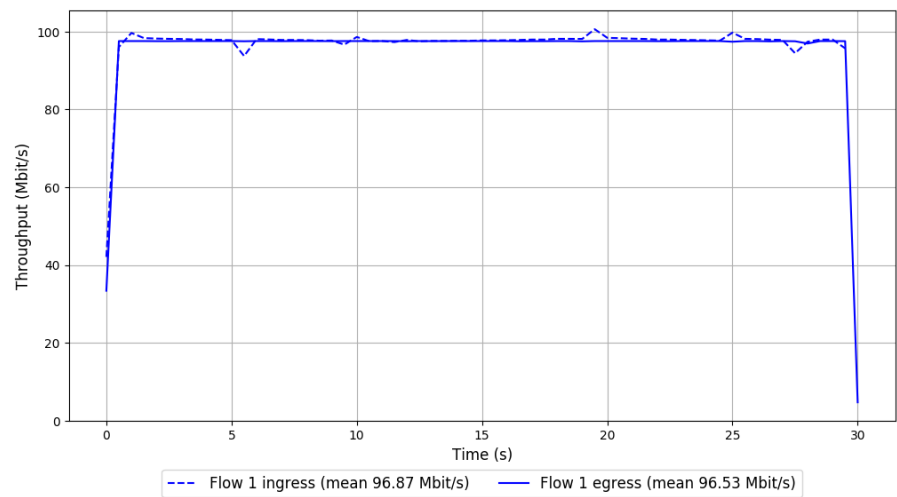


Run 7: Statistics of TCP Cubic

Start at: 2018-01-02 03:14:05
End at: 2018-01-02 03:14:35
Local clock offset: -11.614 ms
Remote clock offset: -1.818 ms

Below is generated by plot.py at 2018-01-02 04:54:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.53 Mbit/s
95th percentile per-packet one-way delay: 65.656 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 96.53 Mbit/s
95th percentile per-packet one-way delay: 65.656 ms
Loss rate: 0.32%

Run 7: Report of TCP Cubic — Data Link

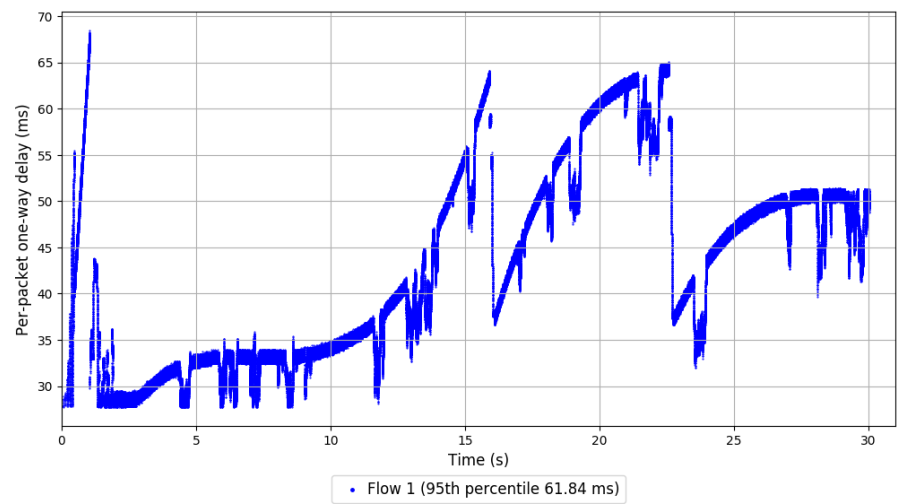
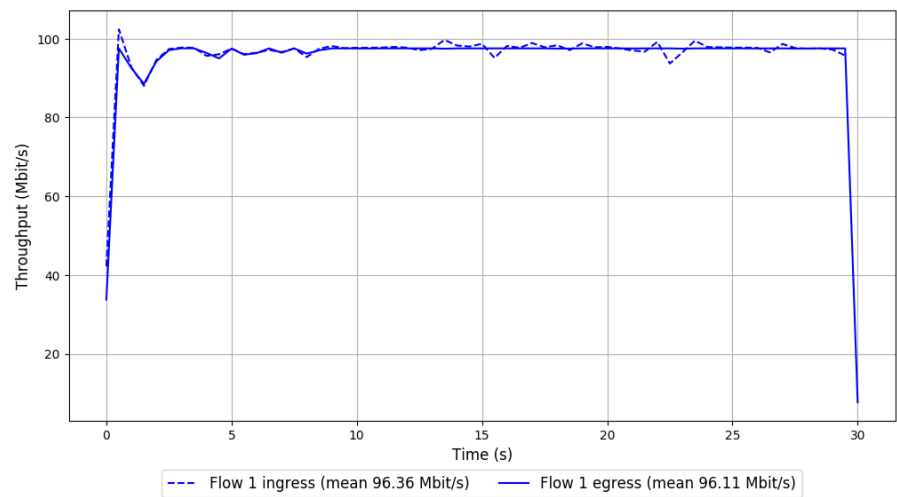


Run 8: Statistics of TCP Cubic

Start at: 2018-01-02 03:35:13
End at: 2018-01-02 03:35:43
Local clock offset: -12.73 ms
Remote clock offset: -1.247 ms

Below is generated by plot.py at 2018-01-02 04:56:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.11 Mbit/s
95th percentile per-packet one-way delay: 61.837 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 96.11 Mbit/s
95th percentile per-packet one-way delay: 61.837 ms
Loss rate: 0.19%

Run 8: Report of TCP Cubic — Data Link

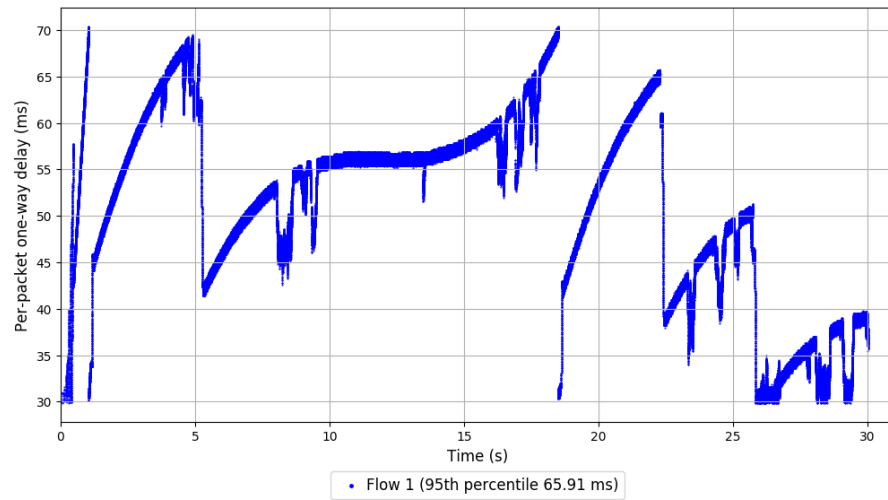
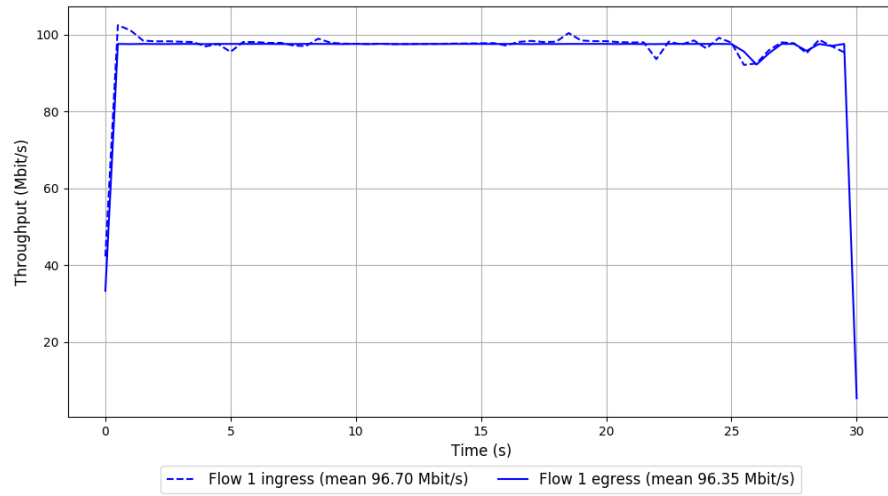


Run 9: Statistics of TCP Cubic

Start at: 2018-01-02 03:56:20
End at: 2018-01-02 03:56:50
Local clock offset: -13.804 ms
Remote clock offset: 0.503 ms

Below is generated by plot.py at 2018-01-02 04:56:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 65.910 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 65.910 ms
Loss rate: 0.33%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

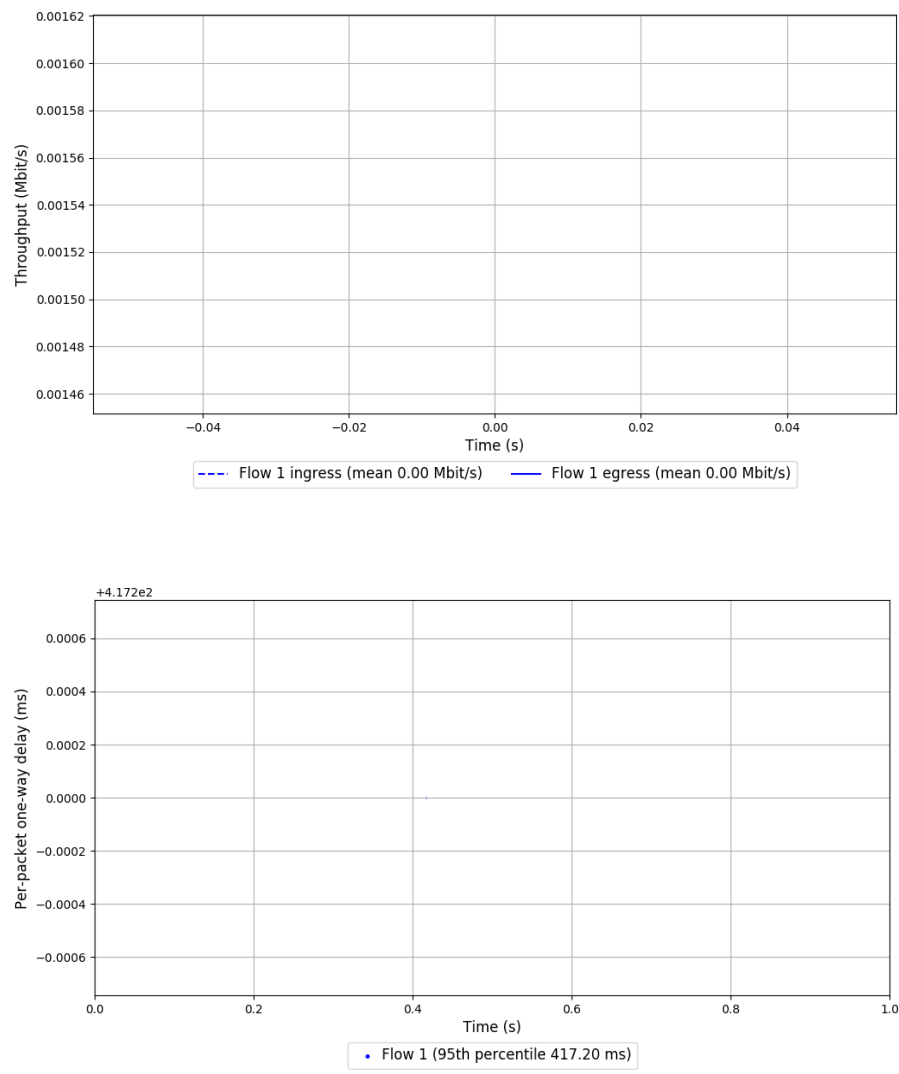
Start at: 2018-01-02 04:17:43

End at: 2018-01-02 04:18:13

Local clock offset: -10.796 ms

Remote clock offset: 0.041 ms

Run 10: Report of TCP Cubic — Data Link

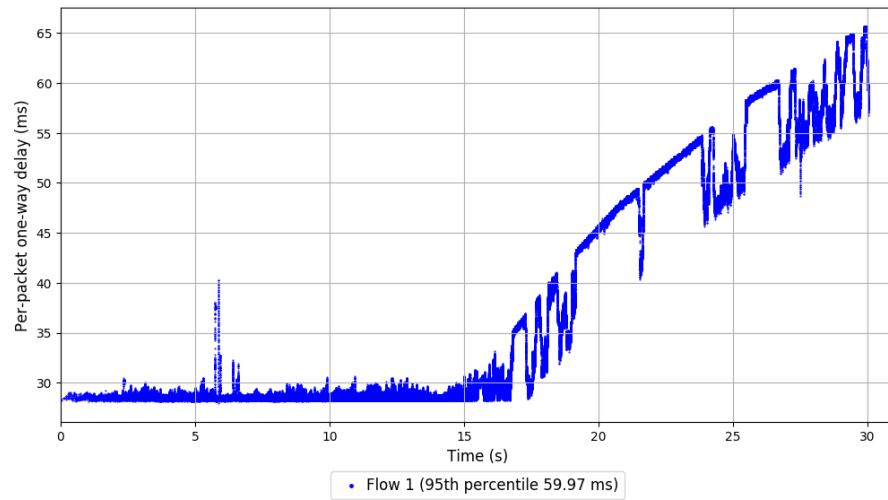
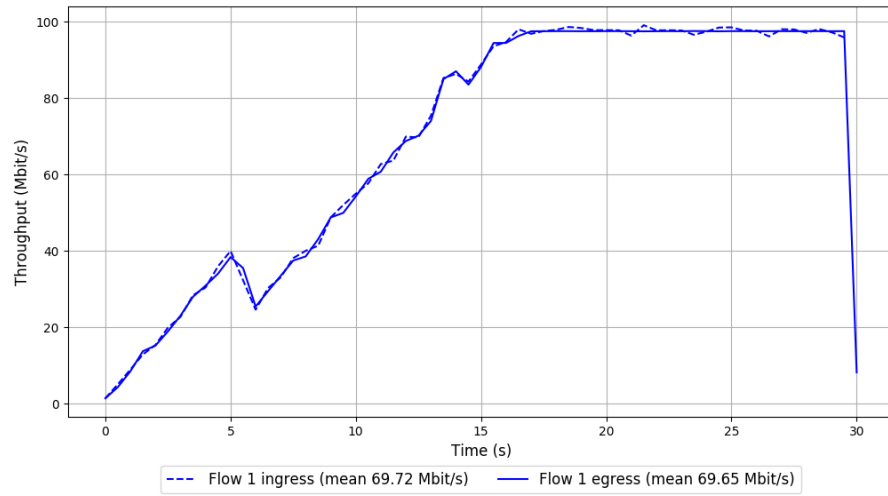


Run 1: Statistics of LEDBAT

Start at: 2018-01-02 01:05:12
End at: 2018-01-02 01:05:42
Local clock offset: 0.013 ms
Remote clock offset: -2.041 ms

Below is generated by plot.py at 2018-01-02 04:56:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 69.65 Mbit/s
95th percentile per-packet one-way delay: 59.967 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 69.65 Mbit/s
95th percentile per-packet one-way delay: 59.967 ms
Loss rate: 0.04%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-01-02 01:28:06

End at: 2018-01-02 01:28:36

Local clock offset: -2.134 ms

Remote clock offset: 0.105 ms

Below is generated by plot.py at 2018-01-02 04:56:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.31 Mbit/s

95th percentile per-packet one-way delay: 44.801 ms

Loss rate: 0.05%

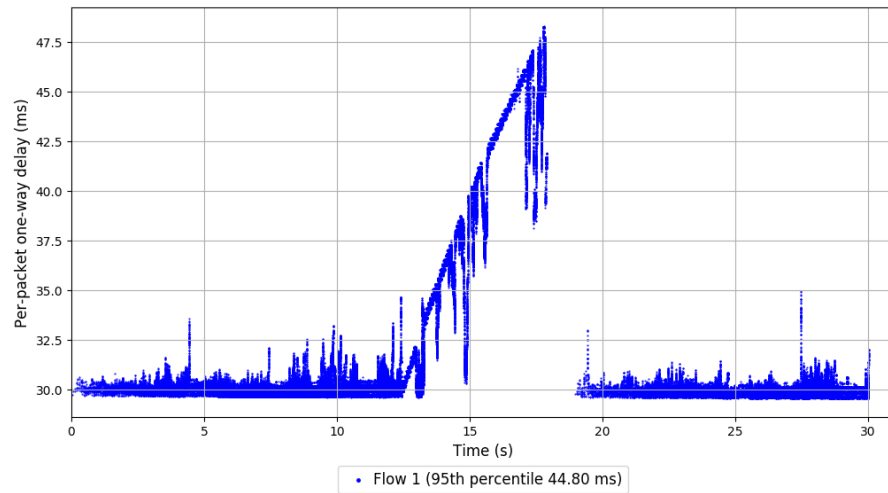
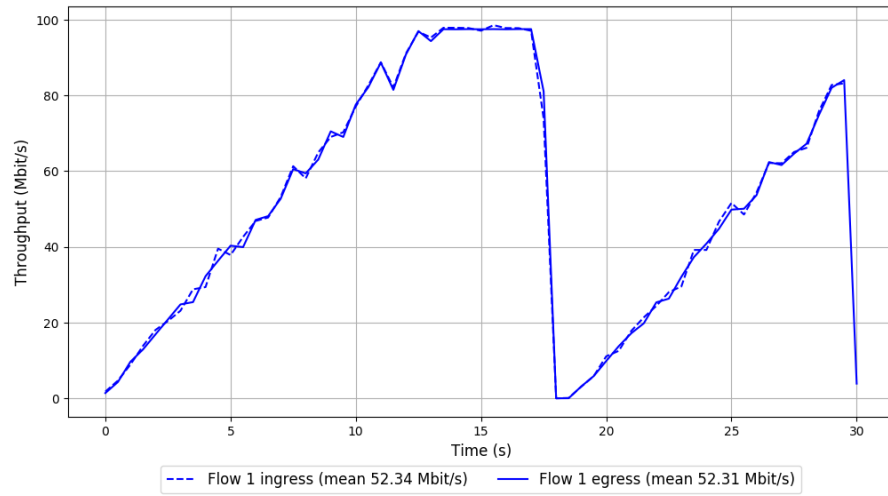
-- Flow 1:

Average throughput: 52.31 Mbit/s

95th percentile per-packet one-way delay: 44.801 ms

Loss rate: 0.05%

Run 2: Report of LEDBAT — Data Link

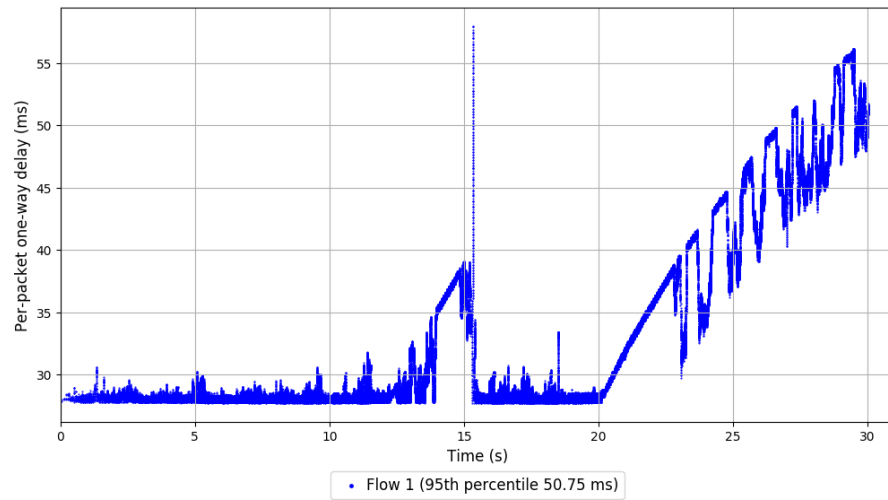
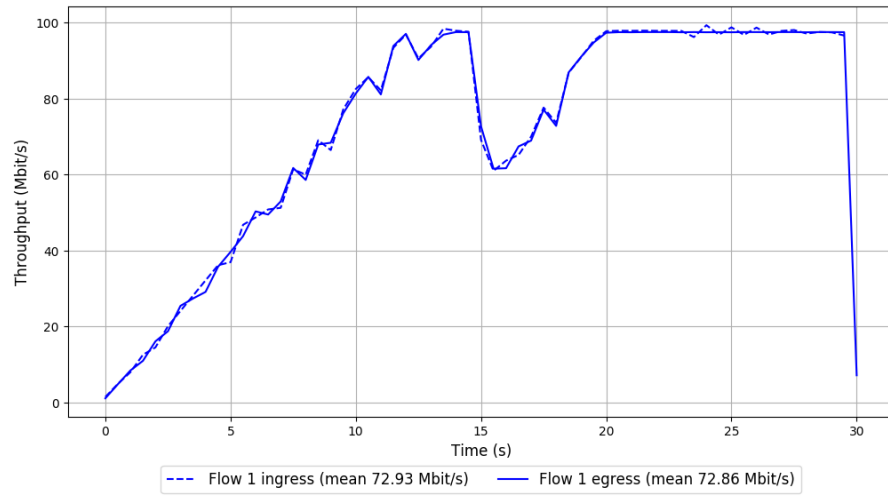


Run 3: Statistics of LEDBAT

Start at: 2018-01-02 01:51:29
End at: 2018-01-02 01:51:59
Local clock offset: -6.948 ms
Remote clock offset: -2.102 ms

Below is generated by plot.py at 2018-01-02 04:56:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.86 Mbit/s
95th percentile per-packet one-way delay: 50.754 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 72.86 Mbit/s
95th percentile per-packet one-way delay: 50.754 ms
Loss rate: 0.03%

Run 3: Report of LEDBAT — Data Link

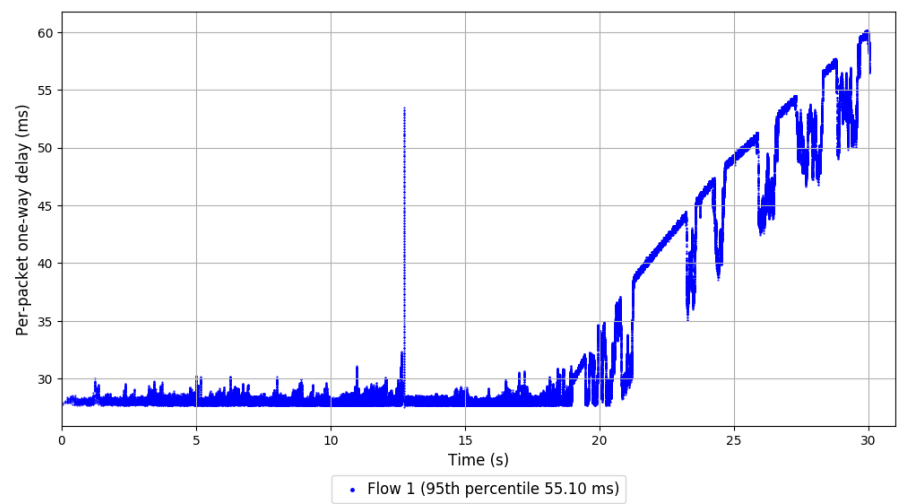
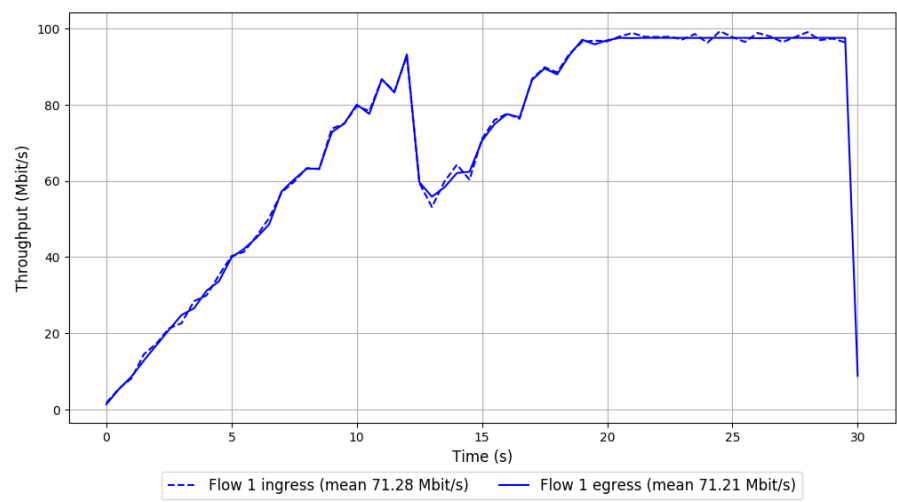


Run 4: Statistics of LEDBAT

Start at: 2018-01-02 02:14:07
End at: 2018-01-02 02:14:37
Local clock offset: -8.341 ms
Remote clock offset: -3.351 ms

Below is generated by plot.py at 2018-01-02 04:56:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 71.21 Mbit/s
95th percentile per-packet one-way delay: 55.096 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 71.21 Mbit/s
95th percentile per-packet one-way delay: 55.096 ms
Loss rate: 0.01%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

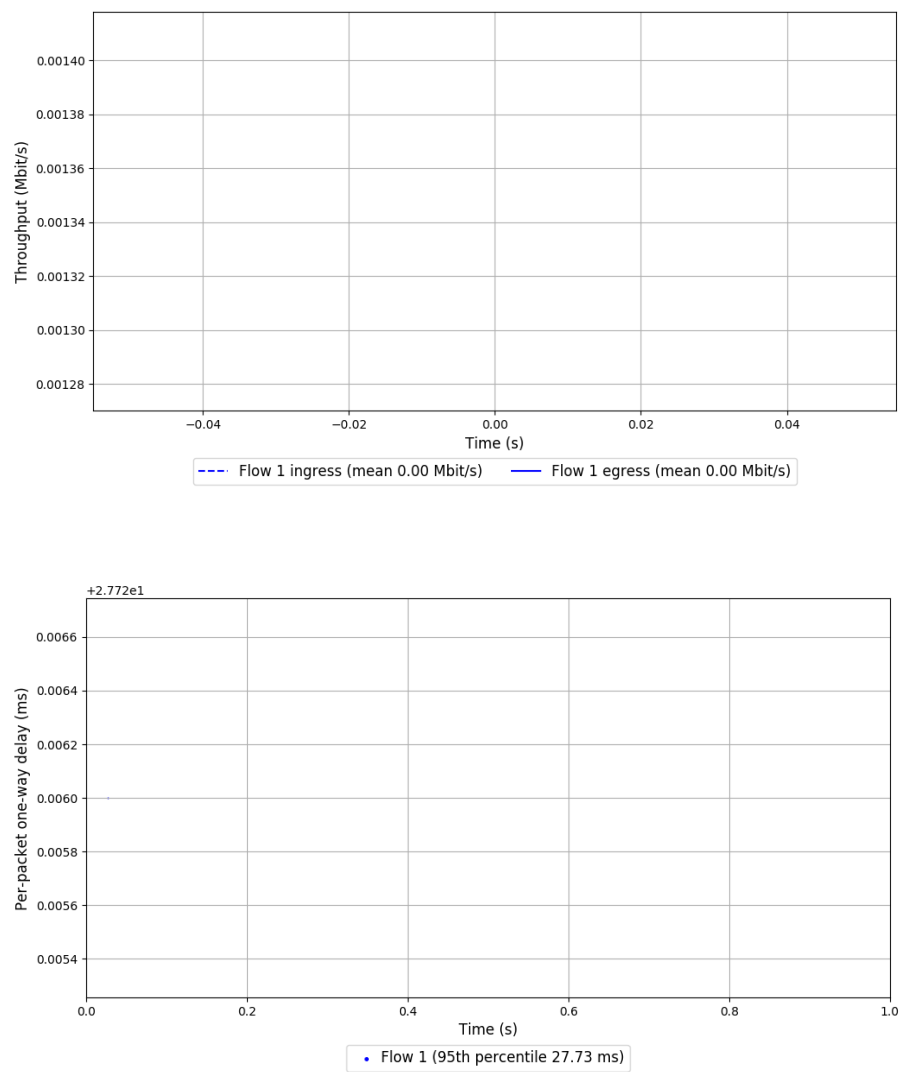
Start at: 2018-01-02 02:35:27

End at: 2018-01-02 02:35:57

Local clock offset: -8.56 ms

Remote clock offset: -3.73 ms

Run 5: Report of LEDBAT — Data Link

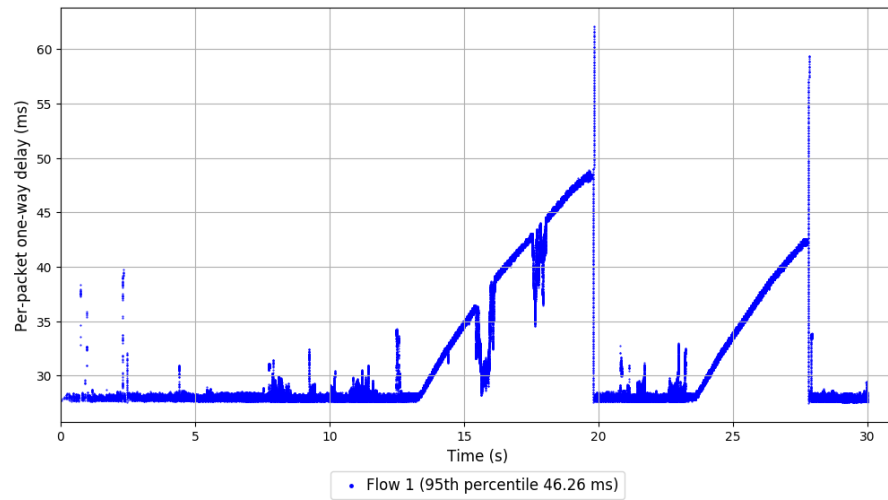
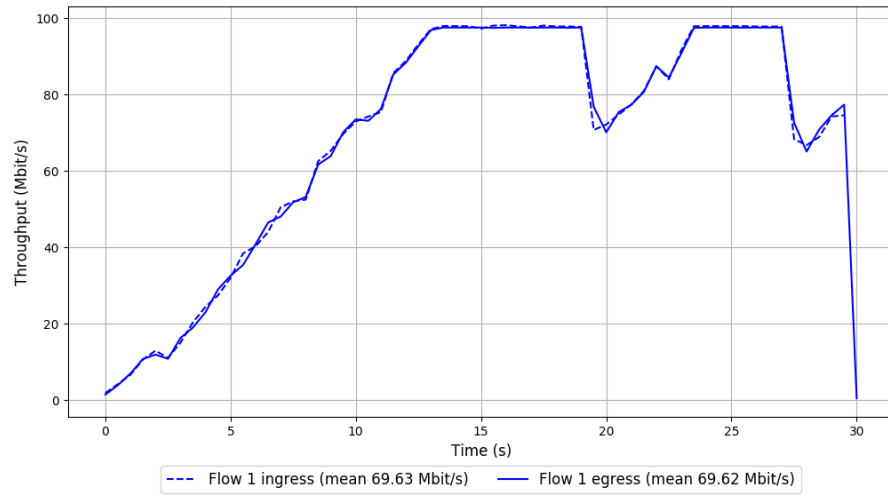


Run 6: Statistics of LEDBAT

Start at: 2018-01-02 02:56:11
End at: 2018-01-02 02:56:41
Local clock offset: -10.016 ms
Remote clock offset: -2.947 ms

Below is generated by plot.py at 2018-01-02 04:56:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 69.62 Mbit/s
95th percentile per-packet one-way delay: 46.257 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 69.62 Mbit/s
95th percentile per-packet one-way delay: 46.257 ms
Loss rate: 0.01%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

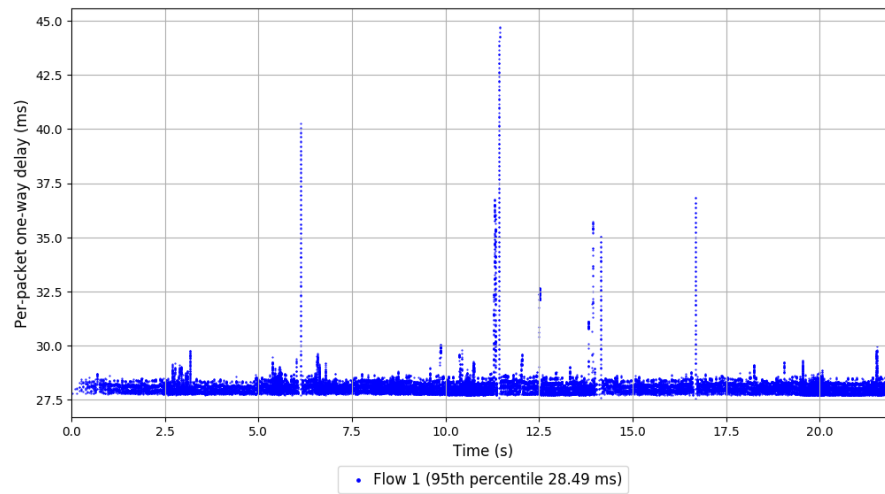
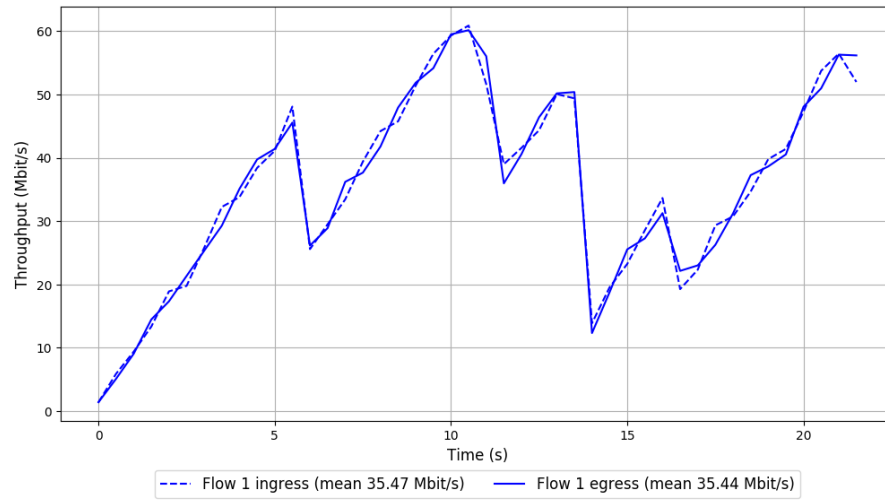
Start at: 2018-01-02 03:17:00

End at: 2018-01-02 03:17:30

Local clock offset: -11.783 ms

Remote clock offset: -1.563 ms

Run 7: Report of LEDBAT — Data Link

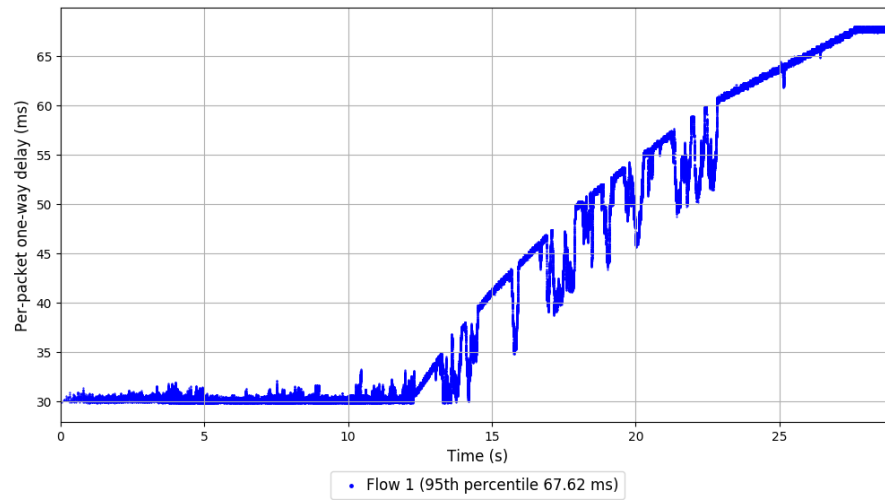
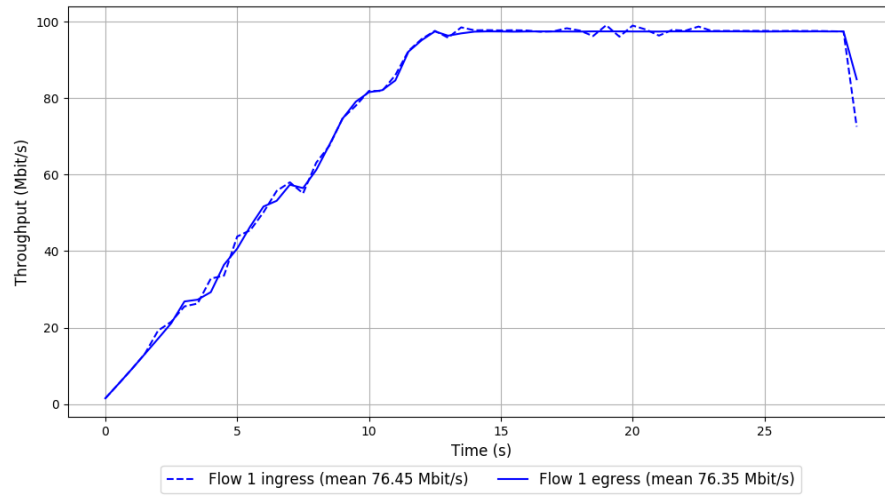


Run 8: Statistics of LEDBAT

Start at: 2018-01-02 03:38:15
End at: 2018-01-02 03:38:45
Local clock offset: -12.964 ms
Remote clock offset: 0.821 ms

Below is generated by plot.py at 2018-01-02 04:56:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.35 Mbit/s
95th percentile per-packet one-way delay: 67.625 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 76.35 Mbit/s
95th percentile per-packet one-way delay: 67.625 ms
Loss rate: 0.02%

Run 8: Report of LEDBAT — Data Link

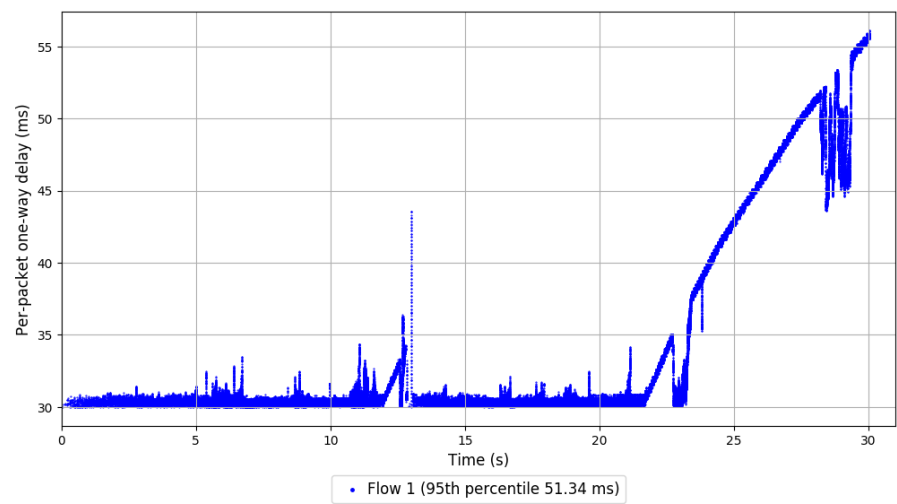
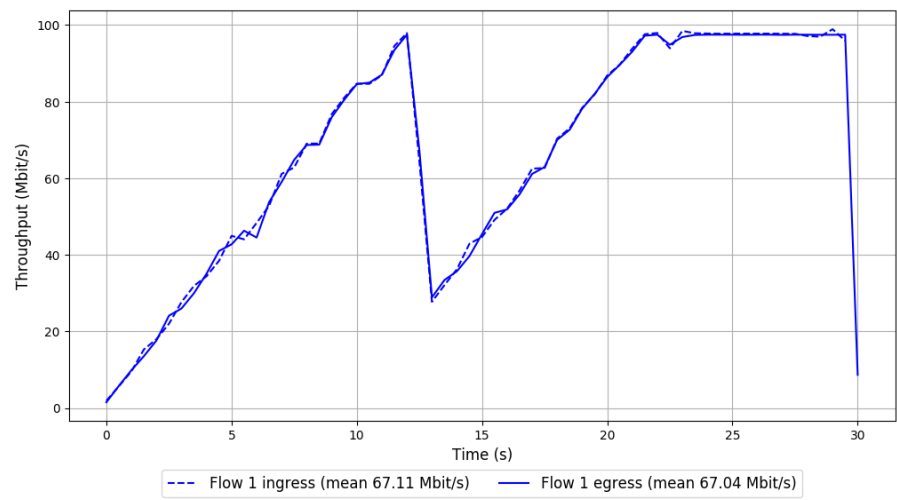


Run 9: Statistics of LEDBAT

Start at: 2018-01-02 03:59:28
End at: 2018-01-02 03:59:58
Local clock offset: -13.417 ms
Remote clock offset: 0.453 ms

Below is generated by plot.py at 2018-01-02 04:56:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 67.04 Mbit/s
95th percentile per-packet one-way delay: 51.336 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 67.04 Mbit/s
95th percentile per-packet one-way delay: 51.336 ms
Loss rate: 0.03%

Run 9: Report of LEDBAT — Data Link

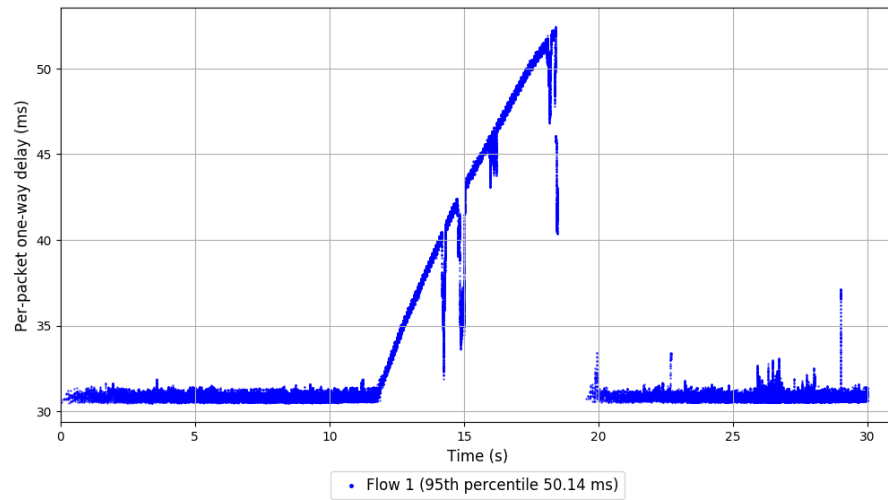
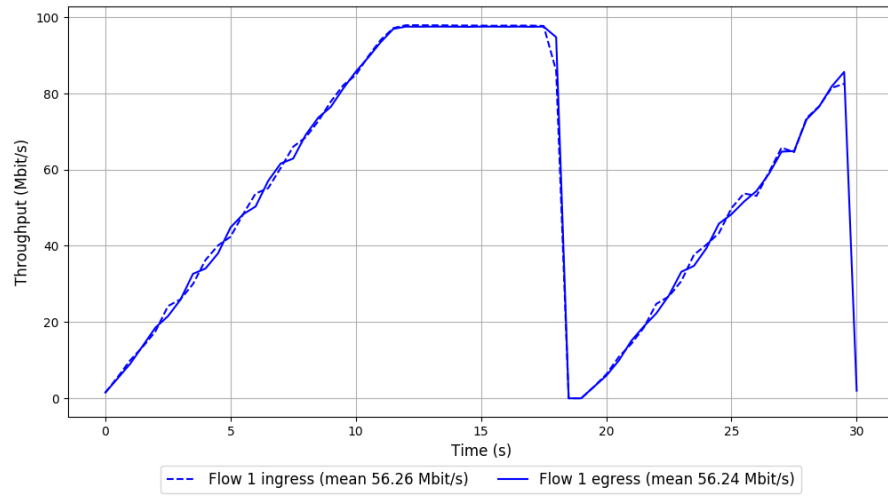


Run 10: Statistics of LEDBAT

Start at: 2018-01-02 04:20:29
End at: 2018-01-02 04:20:59
Local clock offset: -10.587 ms
Remote clock offset: 0.269 ms

Below is generated by plot.py at 2018-01-02 04:56:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 56.24 Mbit/s
95th percentile per-packet one-way delay: 50.139 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 56.24 Mbit/s
95th percentile per-packet one-way delay: 50.139 ms
Loss rate: 0.04%

Run 10: Report of LEDBAT — Data Link

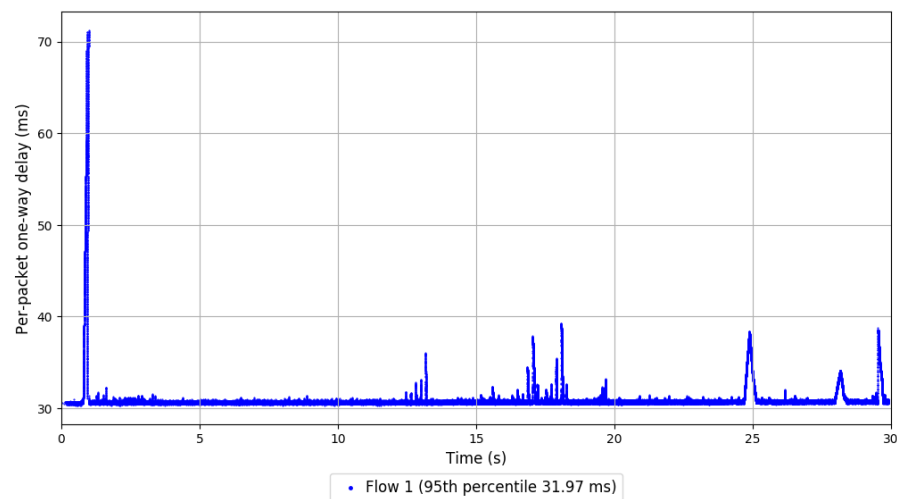
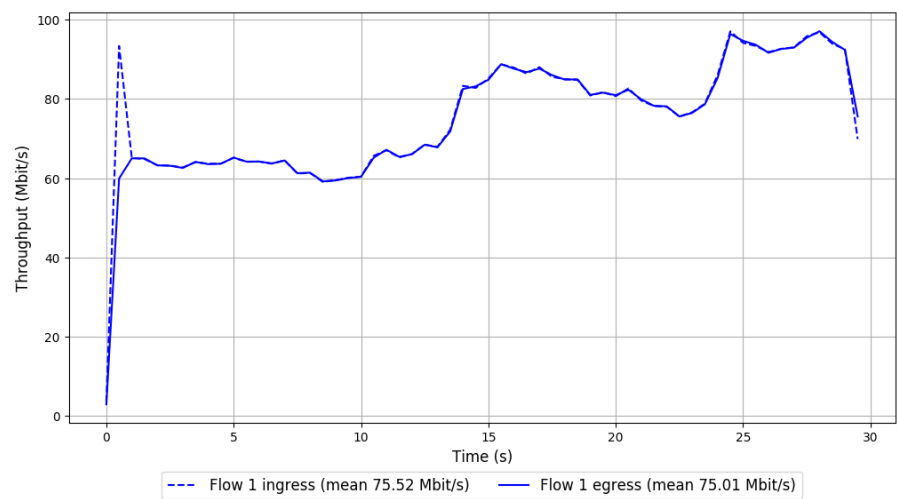


```
Run 1: Statistics of PCC

Start at: 2018-01-02 01:10:02
End at: 2018-01-02 01:10:32
Local clock offset: 1.242 ms
Remote clock offset: 0.522 ms

# Below is generated by plot.py at 2018-01-02 04:56:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.01 Mbit/s
95th percentile per-packet one-way delay: 31.966 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 75.01 Mbit/s
95th percentile per-packet one-way delay: 31.966 ms
Loss rate: 0.67%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-02 01:32:46

End at: 2018-01-02 01:33:16

Local clock offset: -3.156 ms

Remote clock offset: 0.698 ms

Below is generated by plot.py at 2018-01-02 04:57:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.91 Mbit/s

95th percentile per-packet one-way delay: 31.705 ms

Loss rate: 0.68%

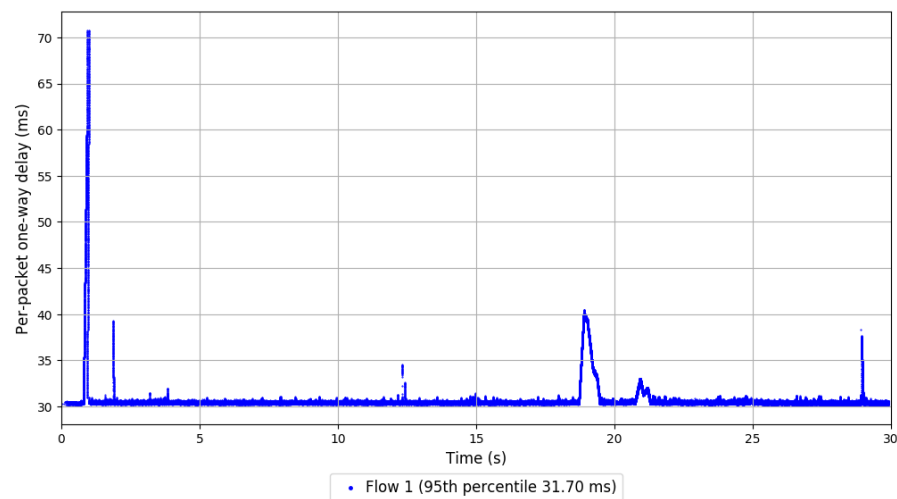
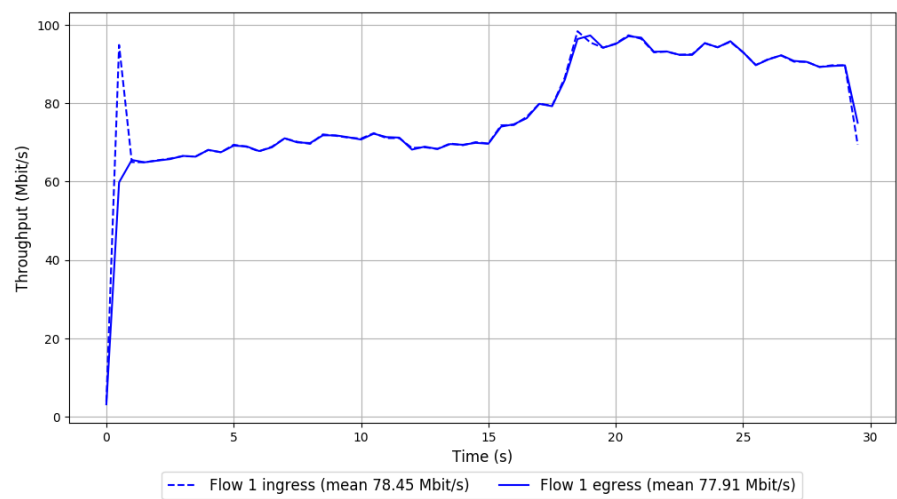
-- Flow 1:

Average throughput: 77.91 Mbit/s

95th percentile per-packet one-way delay: 31.705 ms

Loss rate: 0.68%

Run 2: Report of PCC — Data Link

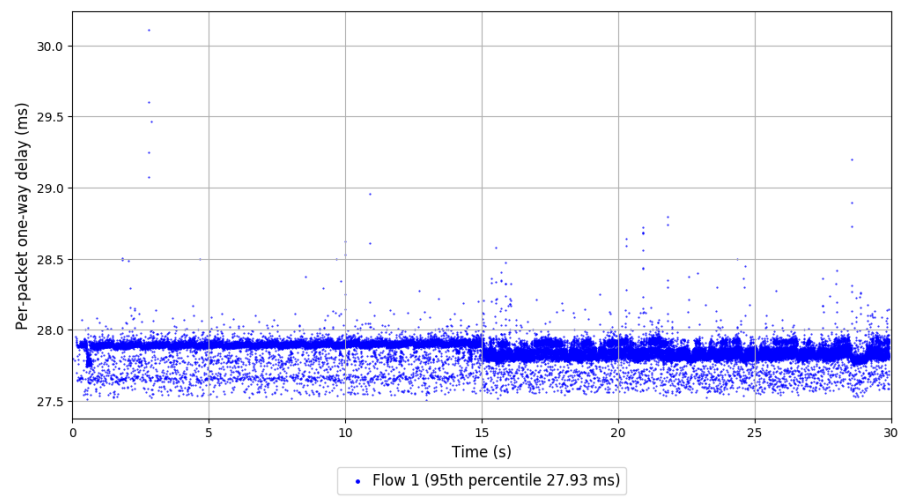
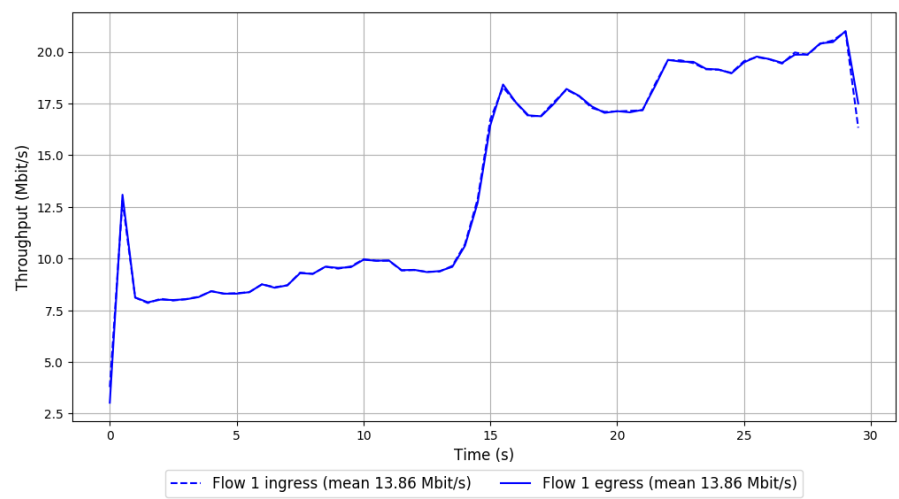


Run 3: Statistics of PCC

Start at: 2018-01-02 01:56:15
End at: 2018-01-02 01:56:45
Local clock offset: -7.412 ms
Remote clock offset: -2.366 ms

Below is generated by plot.py at 2018-01-02 04:57:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.86 Mbit/s
95th percentile per-packet one-way delay: 27.928 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.86 Mbit/s
95th percentile per-packet one-way delay: 27.928 ms
Loss rate: 0.00%

Run 3: Report of PCC — Data Link

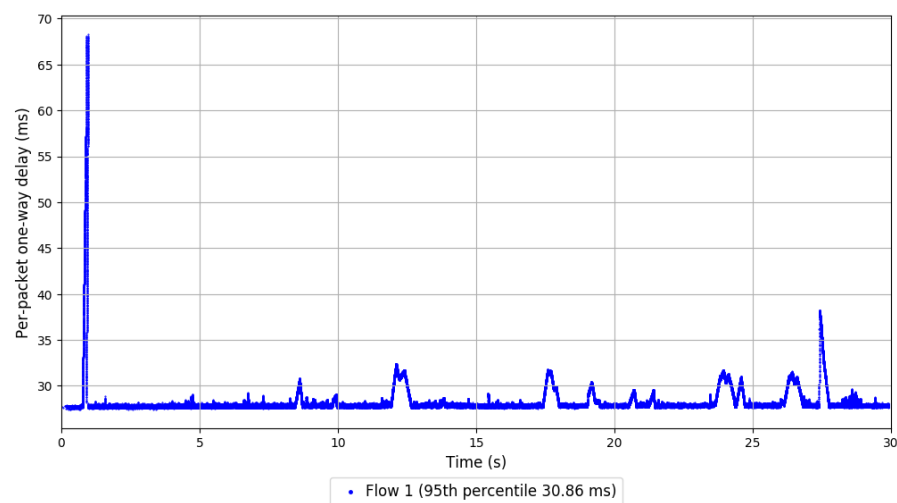
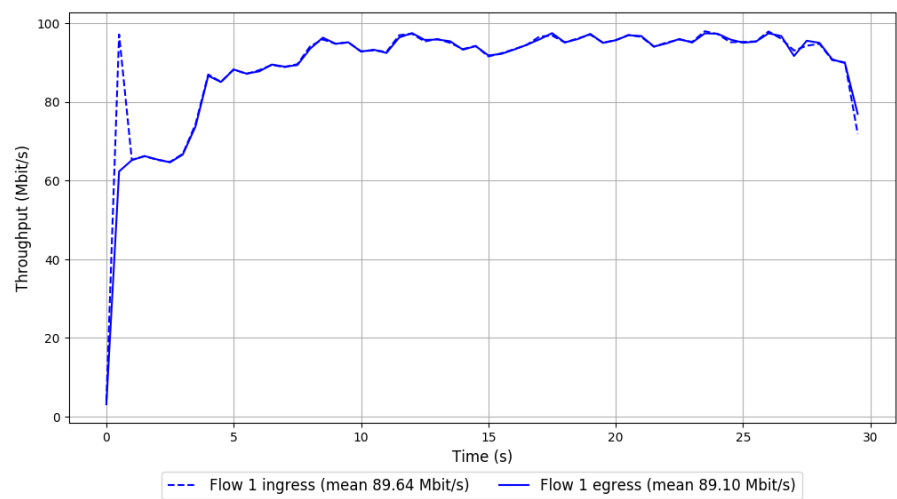


Run 4: Statistics of PCC

Start at: 2018-01-02 02:18:26
End at: 2018-01-02 02:18:56
Local clock offset: -8.56 ms
Remote clock offset: -3.673 ms

Below is generated by plot.py at 2018-01-02 04:57:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.10 Mbit/s
95th percentile per-packet one-way delay: 30.861 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 89.10 Mbit/s
95th percentile per-packet one-way delay: 30.861 ms
Loss rate: 0.60%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-02 02:39:49

End at: 2018-01-02 02:40:19

Local clock offset: -8.748 ms

Remote clock offset: -1.56 ms

Below is generated by plot.py at 2018-01-02 04:57:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.94 Mbit/s

95th percentile per-packet one-way delay: 38.167 ms

Loss rate: 0.62%

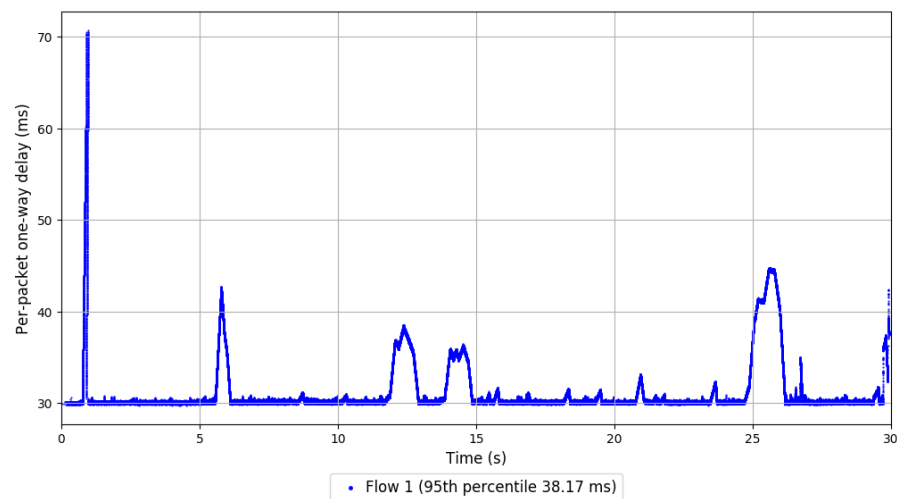
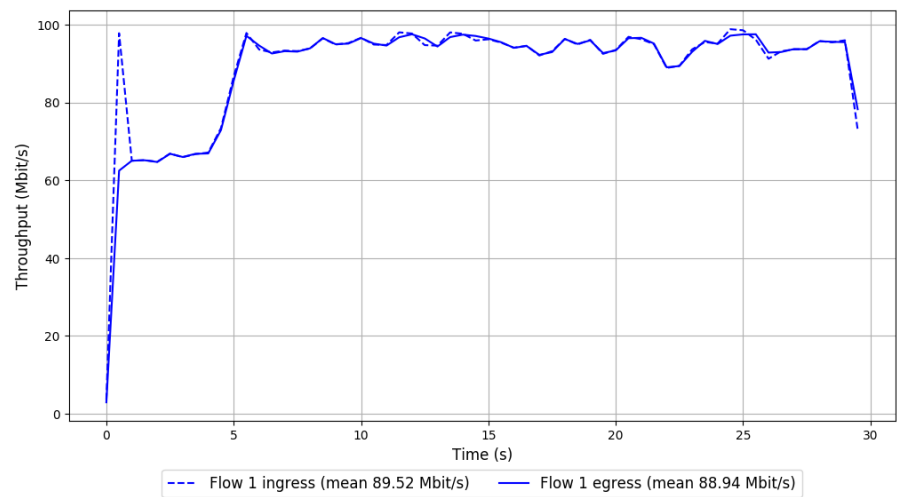
-- Flow 1:

Average throughput: 88.94 Mbit/s

95th percentile per-packet one-way delay: 38.167 ms

Loss rate: 0.62%

Run 5: Report of PCC — Data Link

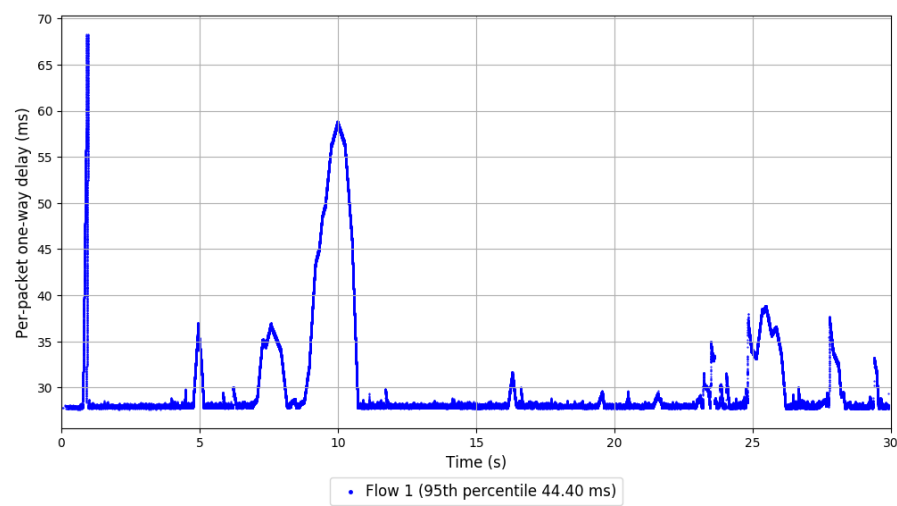
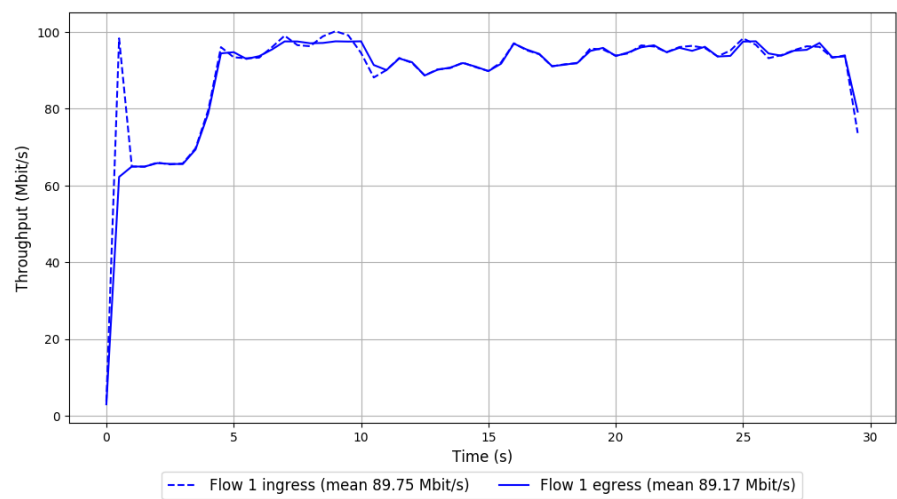


Run 6: Statistics of PCC

Start at: 2018-01-02 03:00:28
End at: 2018-01-02 03:00:58
Local clock offset: -10.346 ms
Remote clock offset: -2.536 ms

Below is generated by plot.py at 2018-01-02 04:57:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.17 Mbit/s
95th percentile per-packet one-way delay: 44.397 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 89.17 Mbit/s
95th percentile per-packet one-way delay: 44.397 ms
Loss rate: 0.65%

Run 6: Report of PCC — Data Link

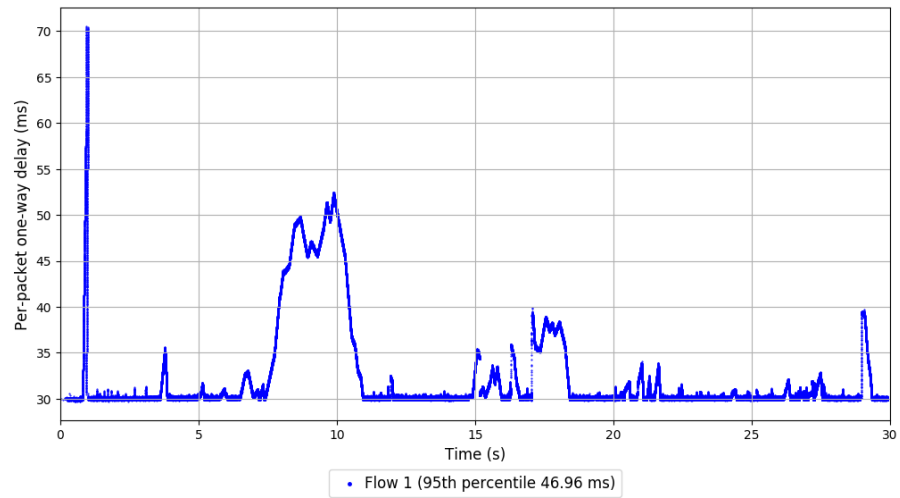
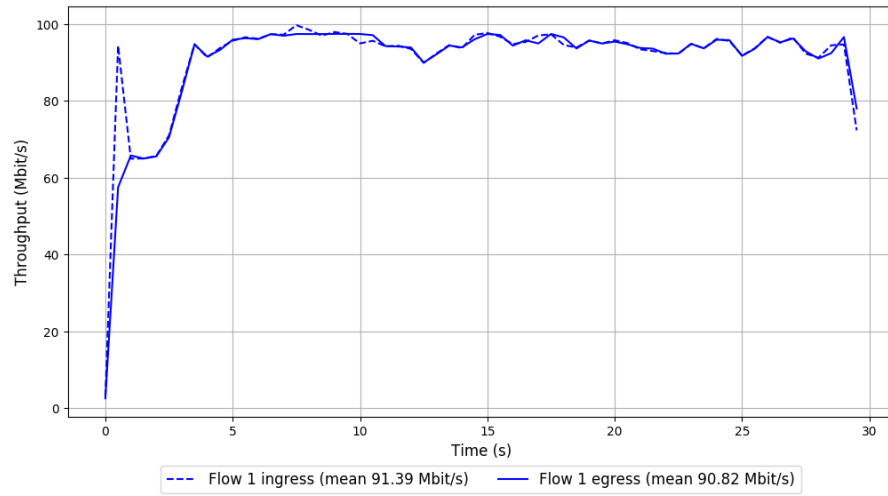


Run 7: Statistics of PCC

Start at: 2018-01-02 03:21:22
End at: 2018-01-02 03:21:52
Local clock offset: -12.161 ms
Remote clock offset: 0.685 ms

Below is generated by plot.py at 2018-01-02 04:57:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.82 Mbit/s
95th percentile per-packet one-way delay: 46.962 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 90.82 Mbit/s
95th percentile per-packet one-way delay: 46.962 ms
Loss rate: 0.61%

Run 7: Report of PCC — Data Link

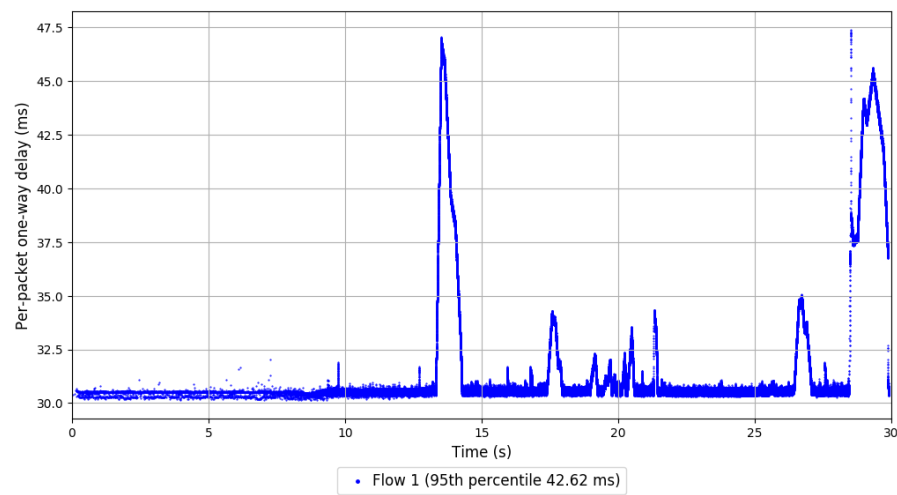
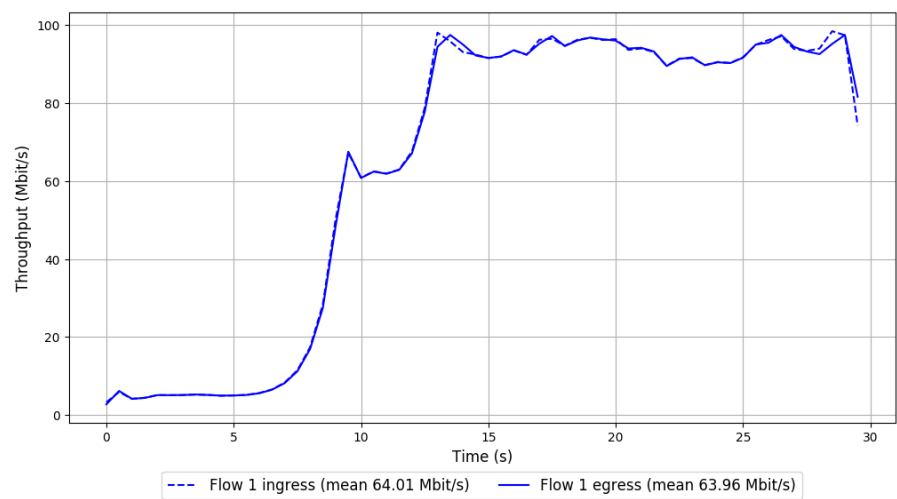


Run 8: Statistics of PCC

Start at: 2018-01-02 03:42:23
End at: 2018-01-02 03:42:53
Local clock offset: -13.236 ms
Remote clock offset: 1.293 ms

Below is generated by plot.py at 2018-01-02 04:57:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 63.96 Mbit/s
95th percentile per-packet one-way delay: 42.621 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 63.96 Mbit/s
95th percentile per-packet one-way delay: 42.621 ms
Loss rate: 0.08%

Run 8: Report of PCC — Data Link

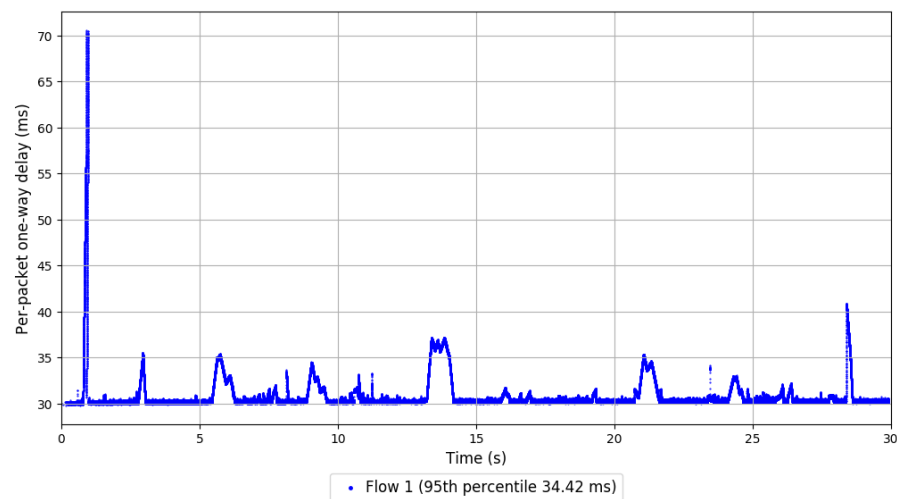
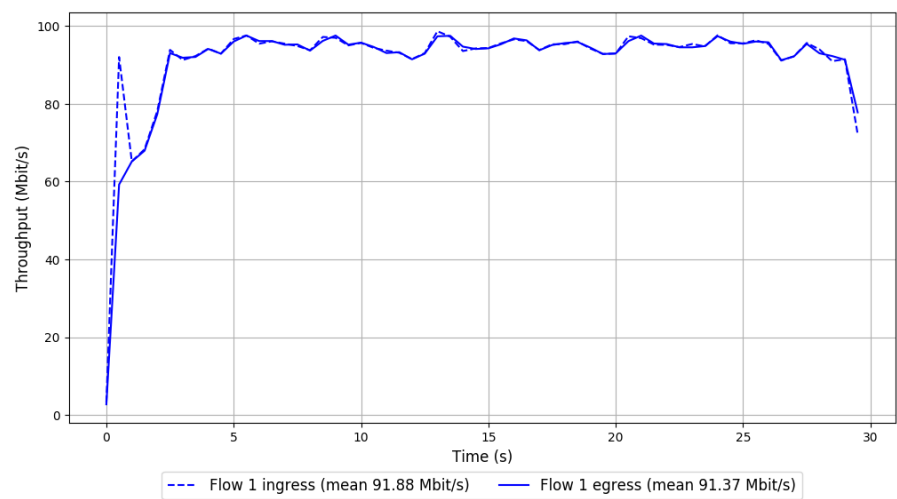


Run 9: Statistics of PCC

Start at: 2018-01-02 04:04:03
End at: 2018-01-02 04:04:33
Local clock offset: -12.694 ms
Remote clock offset: 0.353 ms

Below is generated by plot.py at 2018-01-02 04:58:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.37 Mbit/s
95th percentile per-packet one-way delay: 34.424 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 91.37 Mbit/s
95th percentile per-packet one-way delay: 34.424 ms
Loss rate: 0.55%

Run 9: Report of PCC — Data Link

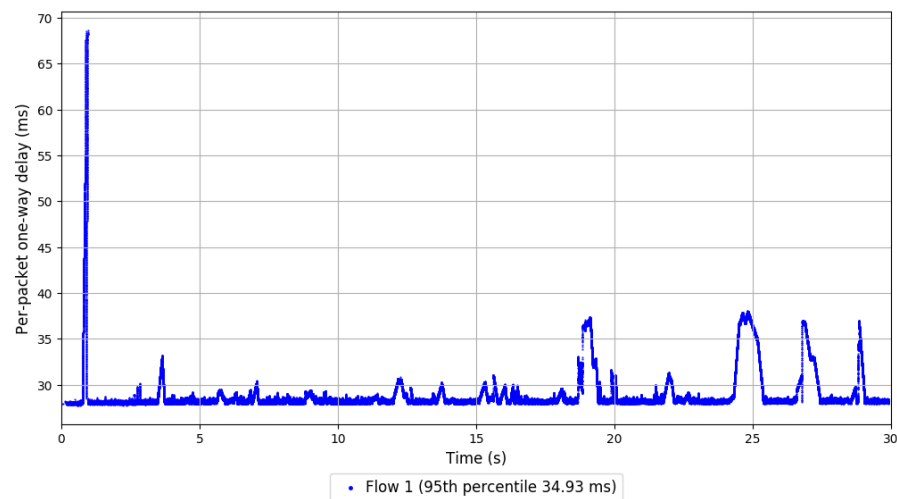
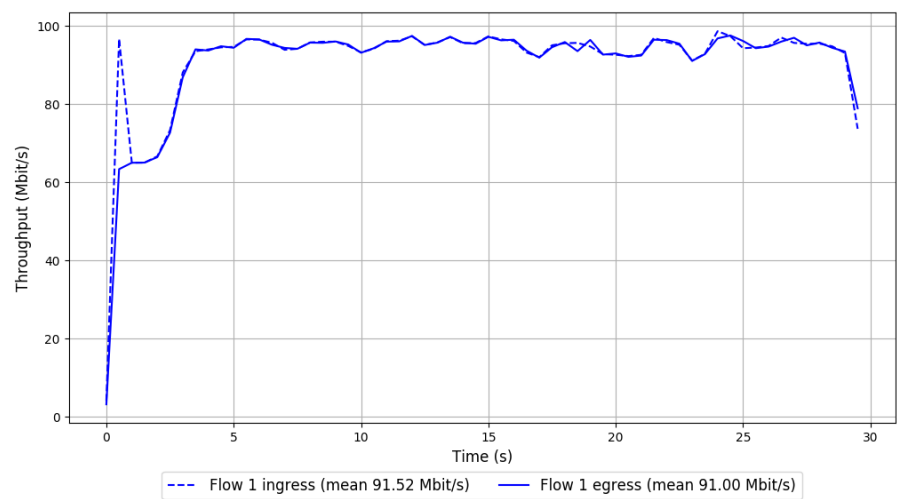


Run 10: Statistics of PCC

Start at: 2018-01-02 04:24:42
End at: 2018-01-02 04:25:12
Local clock offset: -10.378 ms
Remote clock offset: -2.458 ms

Below is generated by plot.py at 2018-01-02 04:58:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.00 Mbit/s
95th percentile per-packet one-way delay: 34.929 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 91.00 Mbit/s
95th percentile per-packet one-way delay: 34.929 ms
Loss rate: 0.57%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

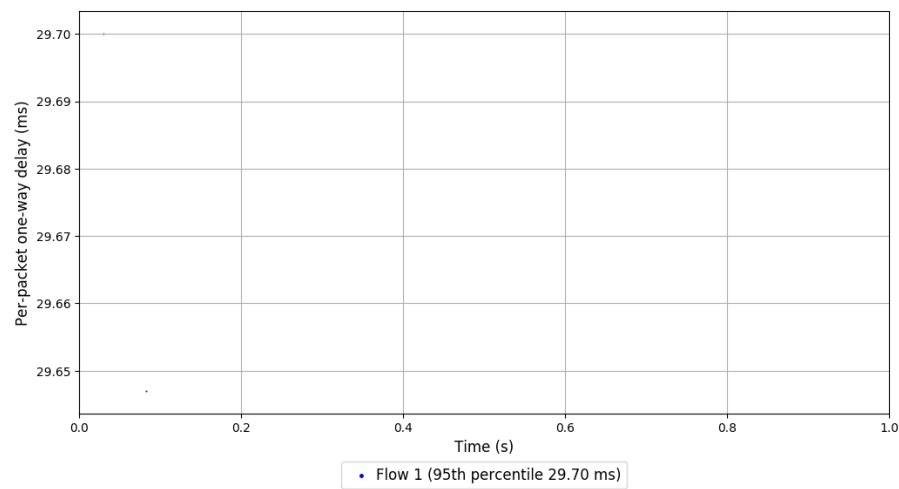
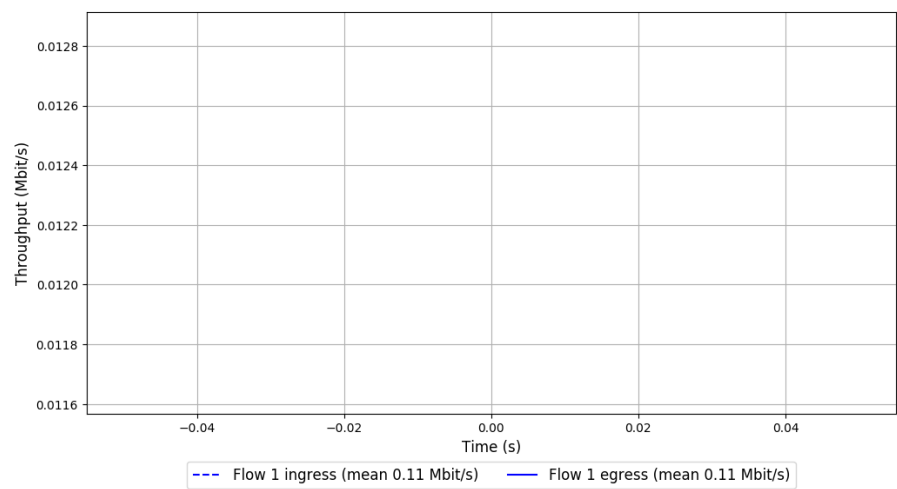
Start at: 2018-01-02 01:14:44

End at: 2018-01-02 01:15:14

Local clock offset: 0.778 ms

Remote clock offset: 0.111 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-02 01:37:30

End at: 2018-01-02 01:38:00

Local clock offset: -3.91 ms

Remote clock offset: 0.289 ms

Below is generated by plot.py at 2018-01-02 04:58:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.03 Mbit/s

95th percentile per-packet one-way delay: 35.148 ms

Loss rate: 0.02%

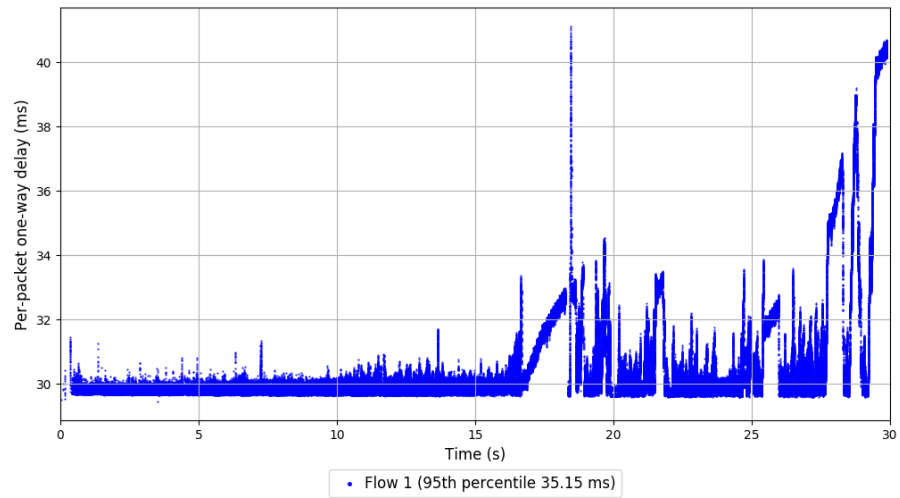
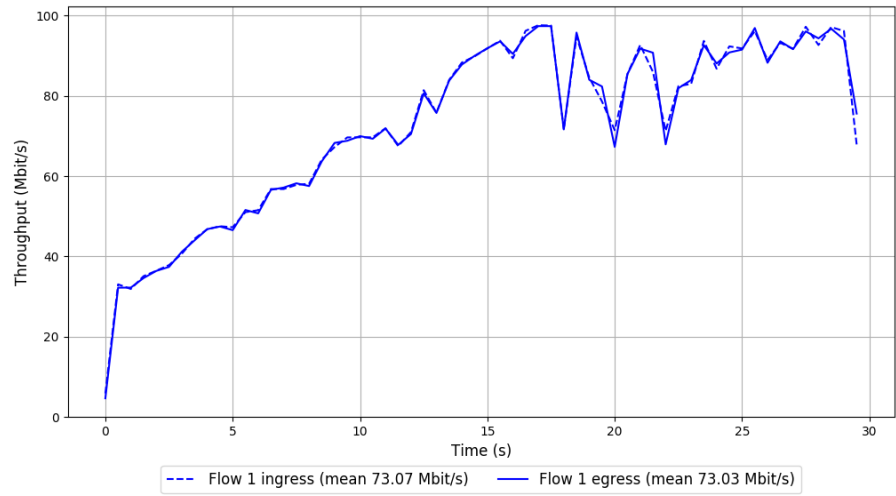
-- Flow 1:

Average throughput: 73.03 Mbit/s

95th percentile per-packet one-way delay: 35.148 ms

Loss rate: 0.02%

Run 2: Report of QUIC Cubic — Data Link

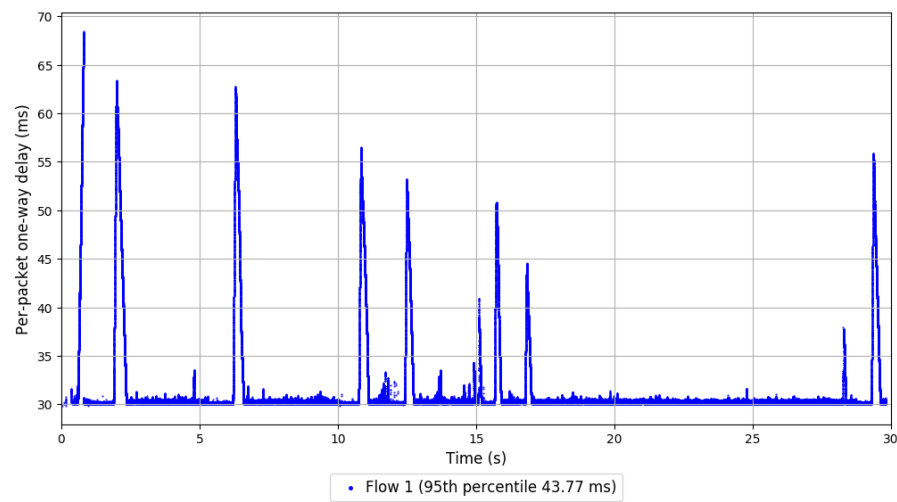
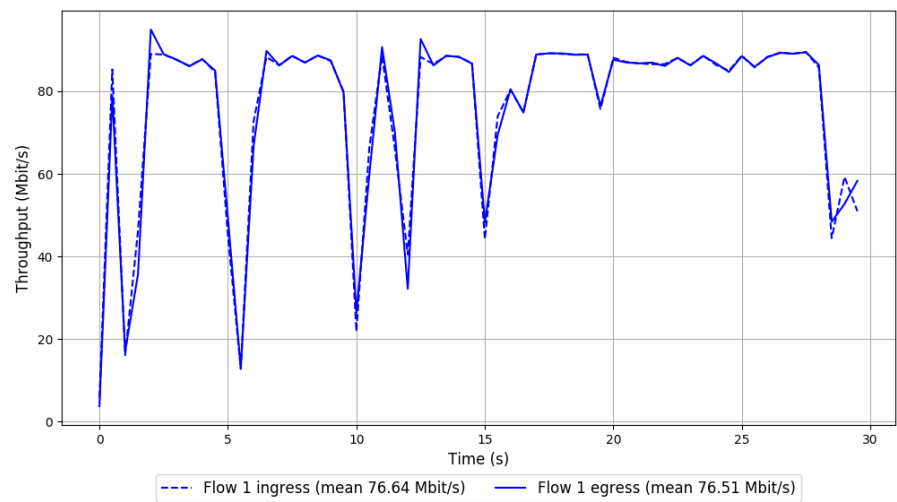


Run 3: Statistics of QUIC Cubic

Start at: 2018-01-02 02:00:40
End at: 2018-01-02 02:01:10
Local clock offset: -7.624 ms
Remote clock offset: -0.363 ms

Below is generated by plot.py at 2018-01-02 04:58:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.51 Mbit/s
95th percentile per-packet one-way delay: 43.772 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 76.51 Mbit/s
95th percentile per-packet one-way delay: 43.772 ms
Loss rate: 0.17%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-02 02:22:46

End at: 2018-01-02 02:23:16

Local clock offset: -8.605 ms

Remote clock offset: -1.698 ms

Below is generated by plot.py at 2018-01-02 04:58:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.68 Mbit/s

95th percentile per-packet one-way delay: 49.803 ms

Loss rate: 0.03%

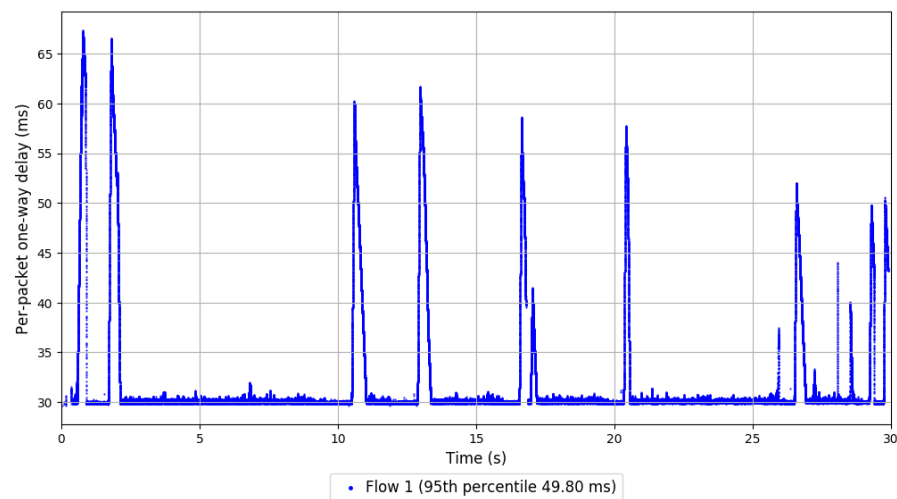
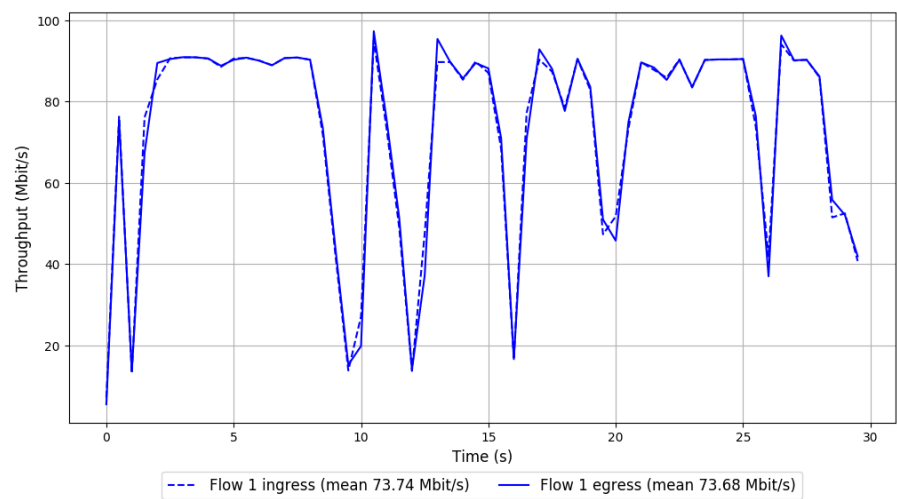
-- Flow 1:

Average throughput: 73.68 Mbit/s

95th percentile per-packet one-way delay: 49.803 ms

Loss rate: 0.03%

Run 4: Report of QUIC Cubic — Data Link

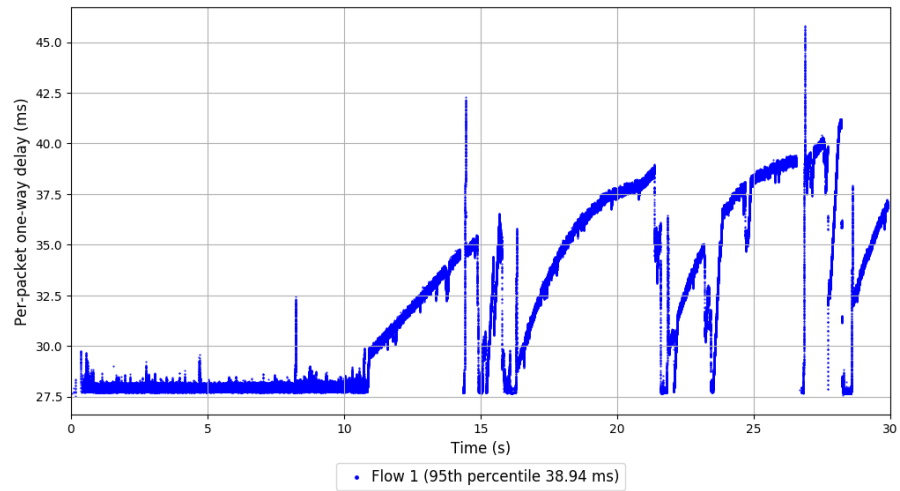
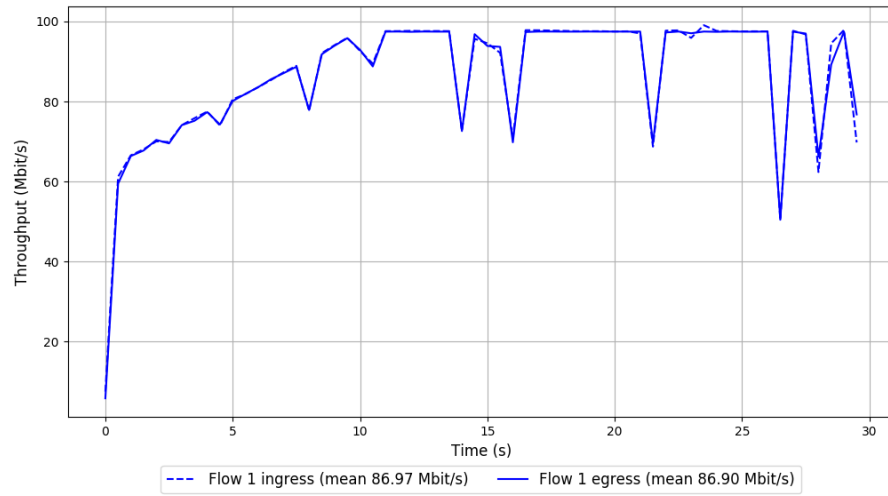


Run 5: Statistics of QUIC Cubic

Start at: 2018-01-02 02:44:03
End at: 2018-01-02 02:44:33
Local clock offset: -8.925 ms
Remote clock offset: -3.523 ms

Below is generated by plot.py at 2018-01-02 04:59:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.90 Mbit/s
95th percentile per-packet one-way delay: 38.937 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 86.90 Mbit/s
95th percentile per-packet one-way delay: 38.937 ms
Loss rate: 0.05%

Run 5: Report of QUIC Cubic — Data Link

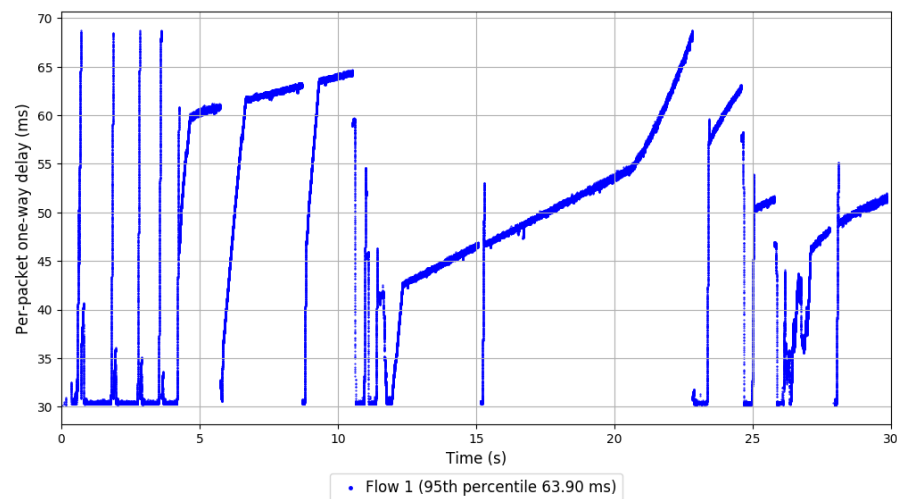
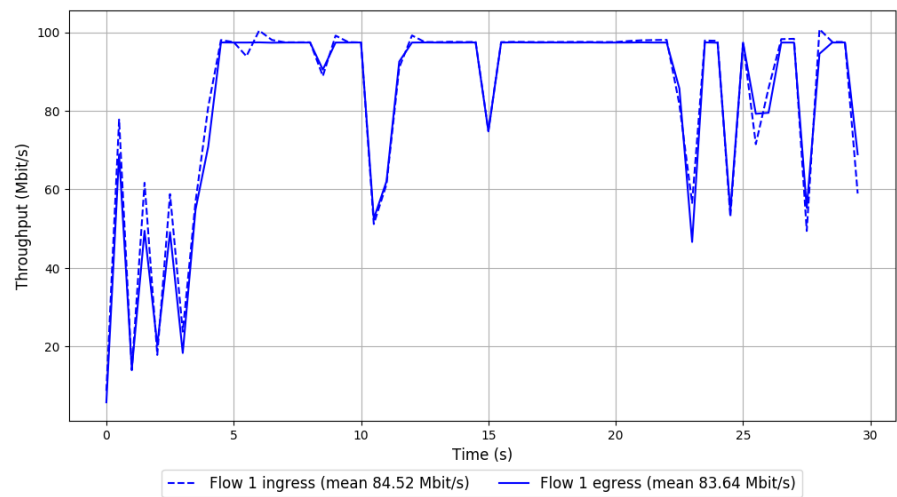


Run 6: Statistics of QUIC Cubic

Start at: 2018-01-02 03:04:30
End at: 2018-01-02 03:05:00
Local clock offset: -10.788 ms
Remote clock offset: 0.144 ms

Below is generated by plot.py at 2018-01-02 04:59:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 83.64 Mbit/s
95th percentile per-packet one-way delay: 63.898 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 83.64 Mbit/s
95th percentile per-packet one-way delay: 63.898 ms
Loss rate: 0.97%

Run 6: Report of QUIC Cubic — Data Link

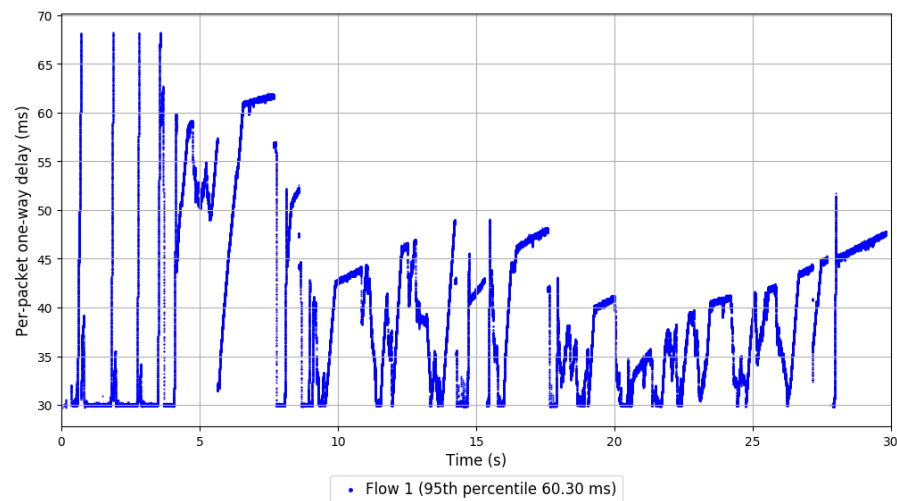
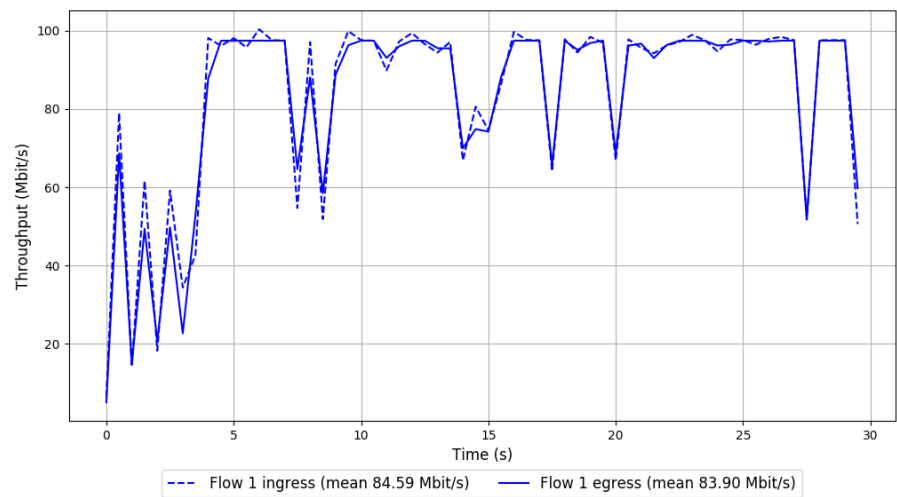


Run 7: Statistics of QUIC Cubic

Start at: 2018-01-02 03:25:35
End at: 2018-01-02 03:26:05
Local clock offset: -12.347 ms
Remote clock offset: 0.868 ms

Below is generated by plot.py at 2018-01-02 04:59:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 83.90 Mbit/s
95th percentile per-packet one-way delay: 60.299 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 83.90 Mbit/s
95th percentile per-packet one-way delay: 60.299 ms
Loss rate: 0.76%

Run 7: Report of QUIC Cubic — Data Link

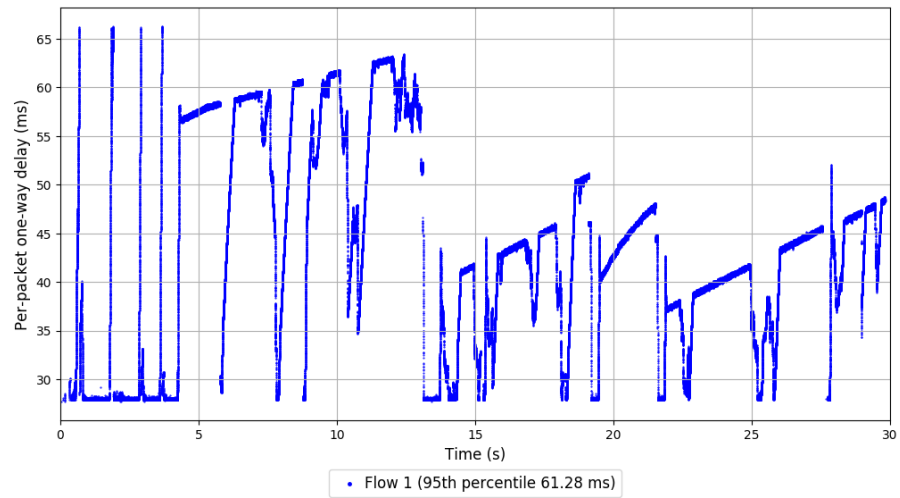
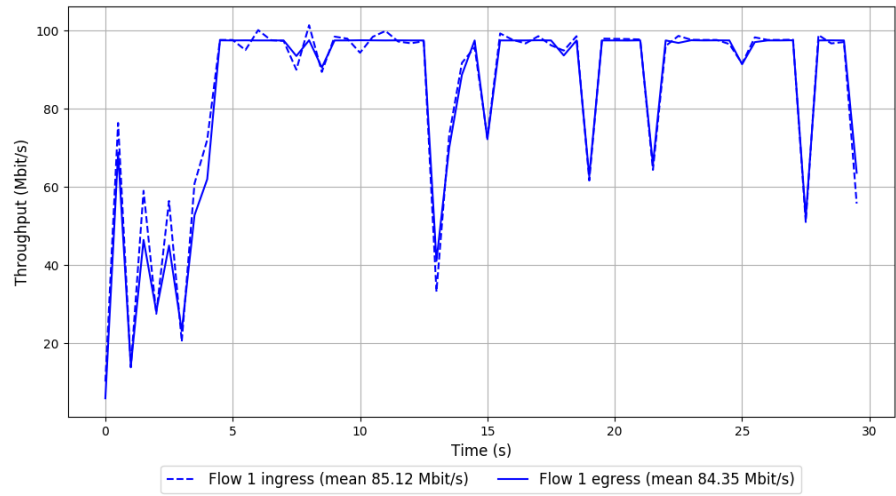


Run 8: Statistics of QUIC Cubic

Start at: 2018-01-02 03:46:33
End at: 2018-01-02 03:47:03
Local clock offset: -13.422 ms
Remote clock offset: -1.31 ms

Below is generated by plot.py at 2018-01-02 04:59:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.35 Mbit/s
95th percentile per-packet one-way delay: 61.285 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 84.35 Mbit/s
95th percentile per-packet one-way delay: 61.285 ms
Loss rate: 0.83%

Run 8: Report of QUIC Cubic — Data Link

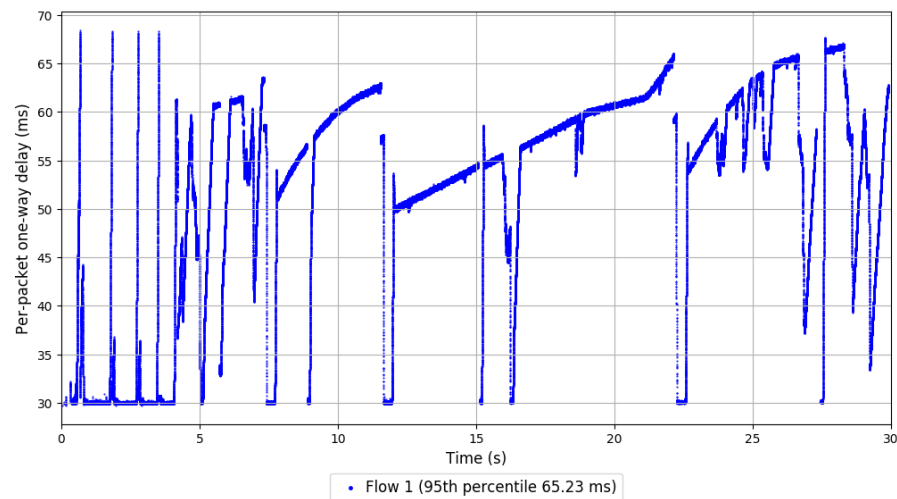
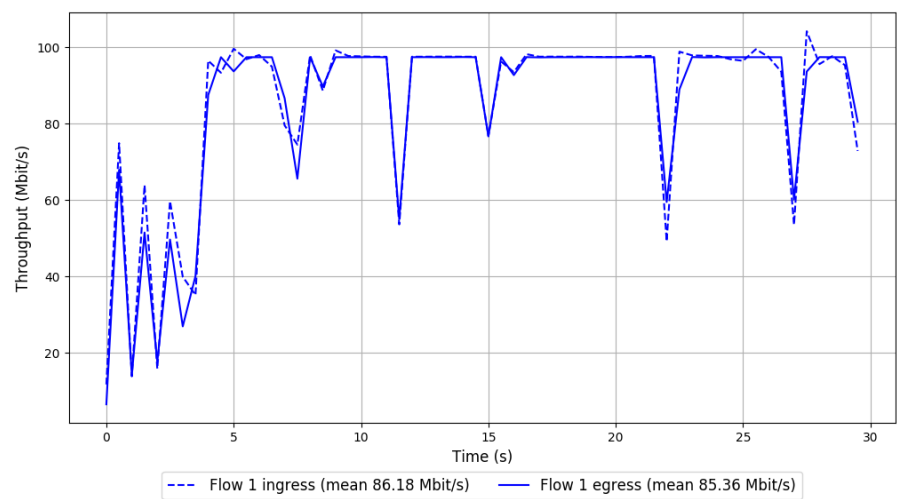


Run 9: Statistics of QUIC Cubic

Start at: 2018-01-02 04:08:12
End at: 2018-01-02 04:08:42
Local clock offset: -11.926 ms
Remote clock offset: 0.143 ms

Below is generated by plot.py at 2018-01-02 04:59:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.36 Mbit/s
95th percentile per-packet one-way delay: 65.228 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 85.36 Mbit/s
95th percentile per-packet one-way delay: 65.228 ms
Loss rate: 0.87%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-01-02 04:28:46

End at: 2018-01-02 04:29:16

Local clock offset: -9.628 ms

Remote clock offset: -2.767 ms

Below is generated by plot.py at 2018-01-02 05:00:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.38 Mbit/s

95th percentile per-packet one-way delay: 56.432 ms

Loss rate: 0.92%

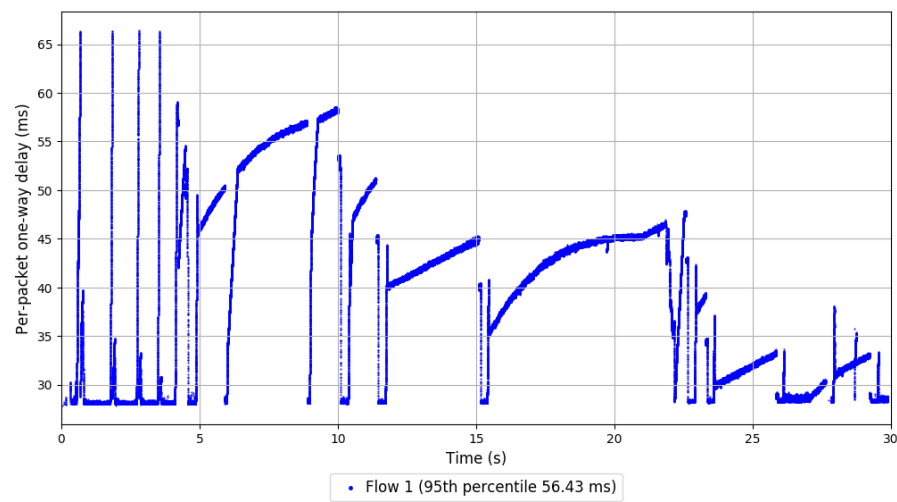
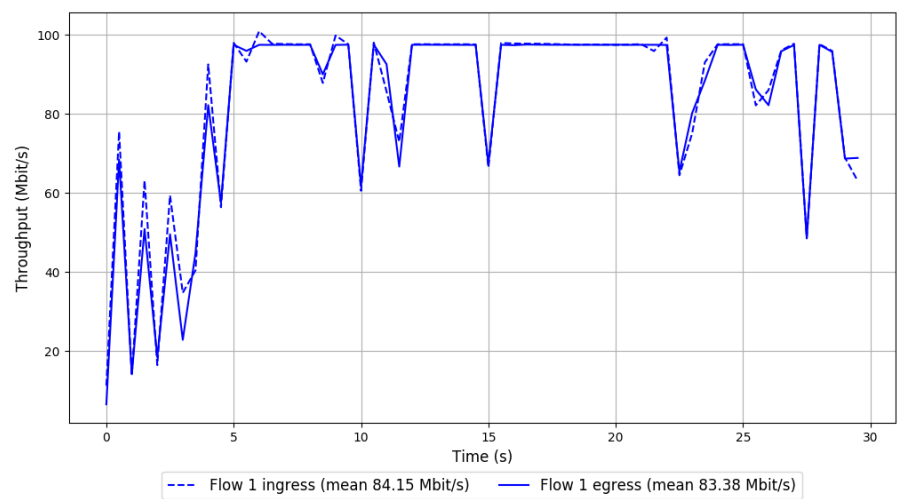
-- Flow 1:

Average throughput: 83.38 Mbit/s

95th percentile per-packet one-way delay: 56.432 ms

Loss rate: 0.92%

Run 10: Report of QUIC Cubic — Data Link

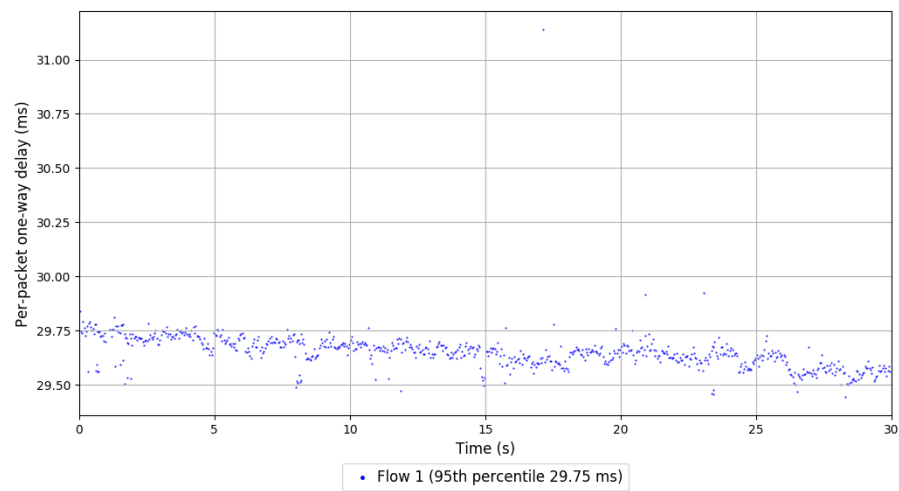
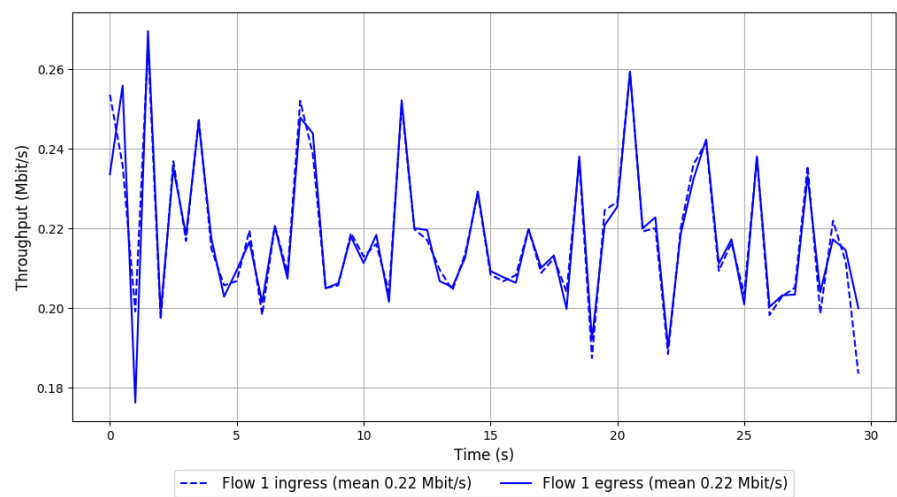


```
Run 1: Statistics of SCReAM

Start at: 2018-01-02 01:17:37
End at: 2018-01-02 01:18:07
Local clock offset: -0.014 ms
Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2018-01-02 05:00:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.751 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.751 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-01-02 01:40:49

End at: 2018-01-02 01:41:19

Local clock offset: -4.646 ms

Remote clock offset: 0.344 ms

Below is generated by plot.py at 2018-01-02 05:00:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.046 ms

Loss rate: 0.00%

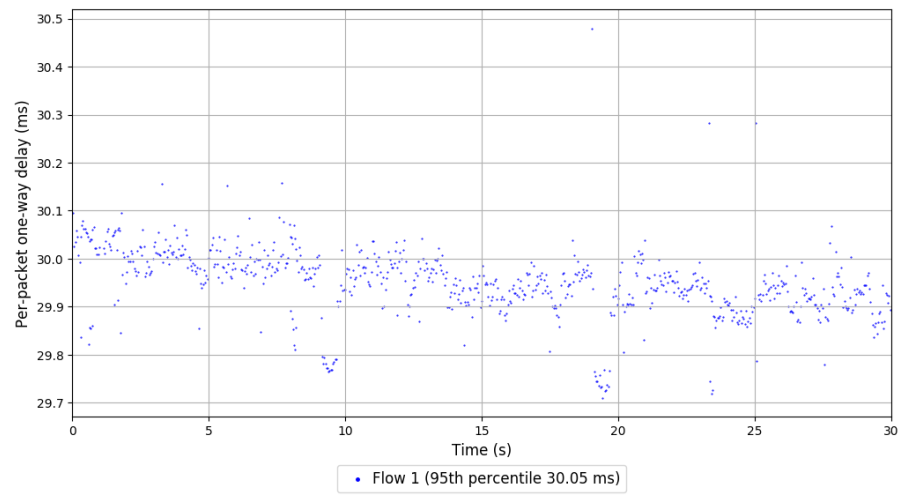
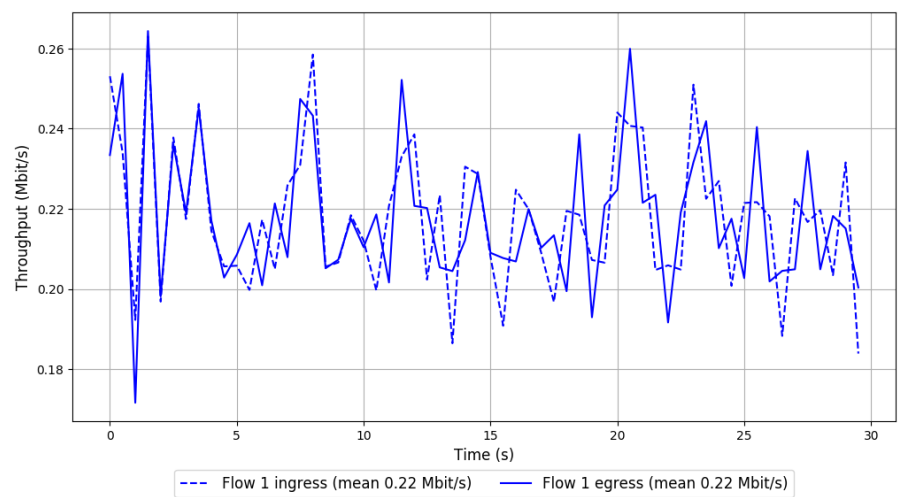
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.046 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

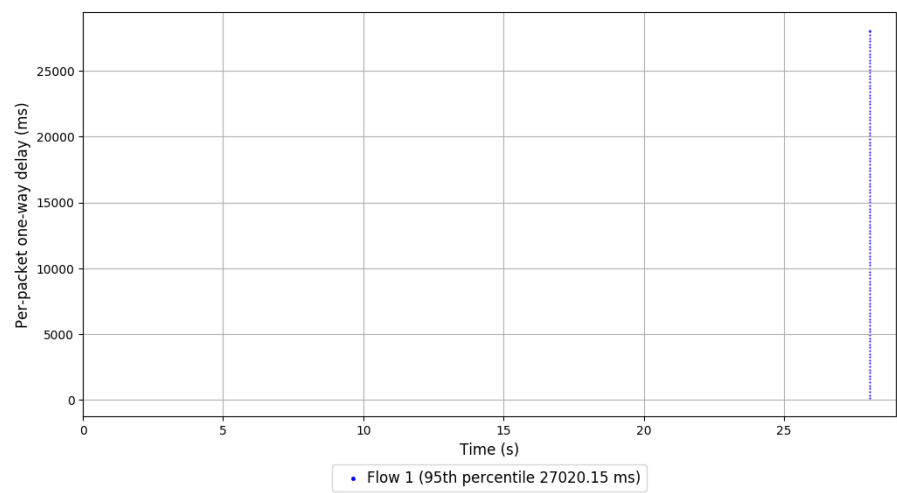
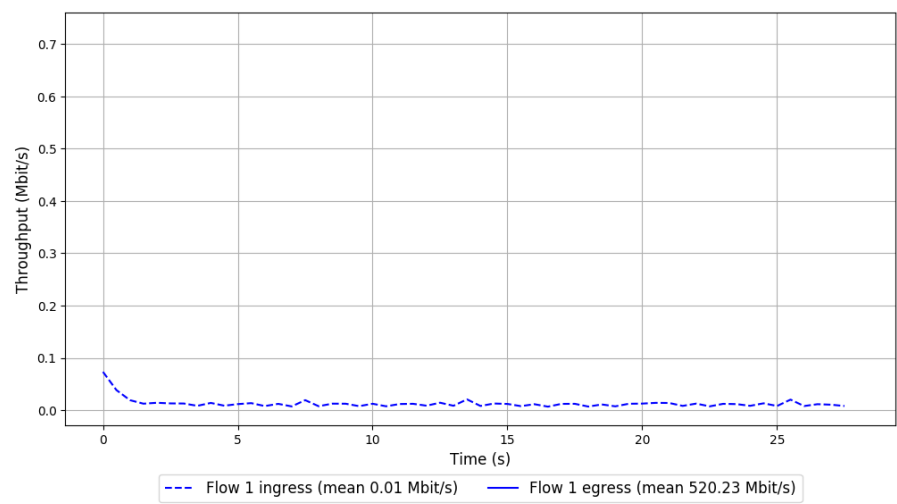
Start at: 2018-01-02 02:04:00

End at: 2018-01-02 02:04:30

Local clock offset: -7.737 ms

Remote clock offset: -2.797 ms

Run 3: Report of SReAM — Data Link

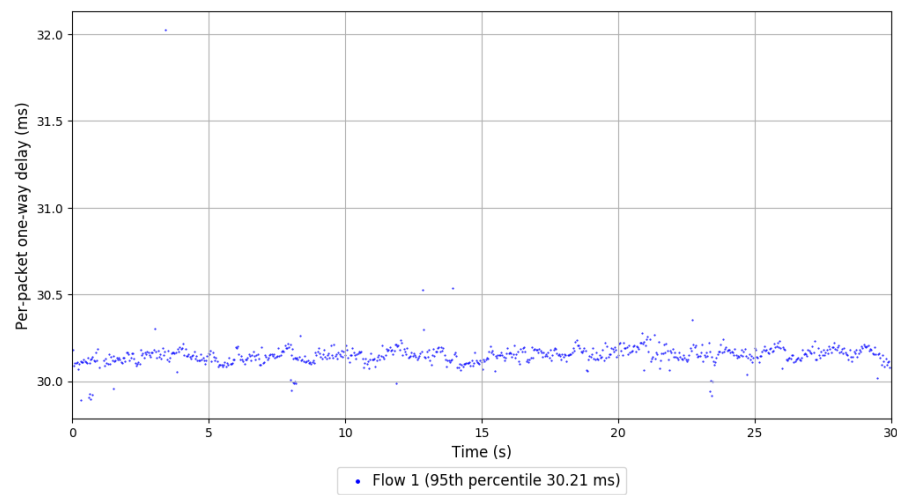
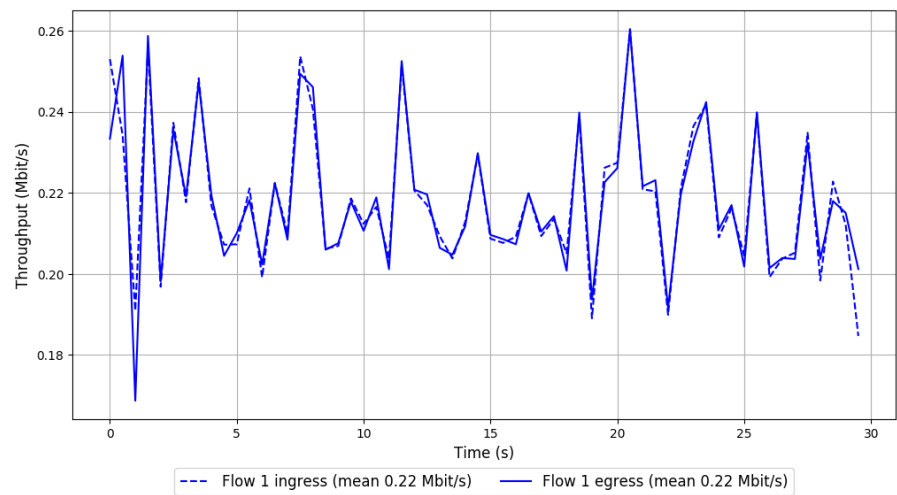


Run 4: Statistics of SCReAM

Start at: 2018-01-02 02:25:43
End at: 2018-01-02 02:26:13
Local clock offset: -8.569 ms
Remote clock offset: -1.701 ms

Below is generated by plot.py at 2018-01-02 05:00:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.211 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.211 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

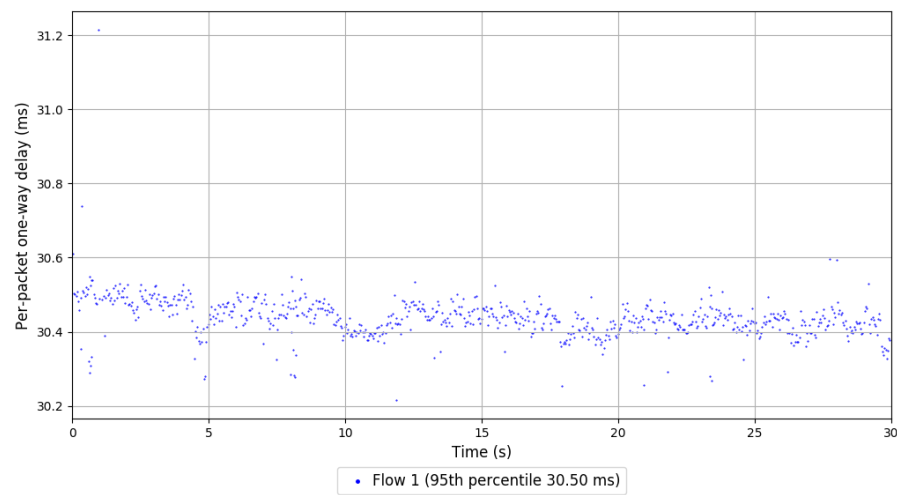
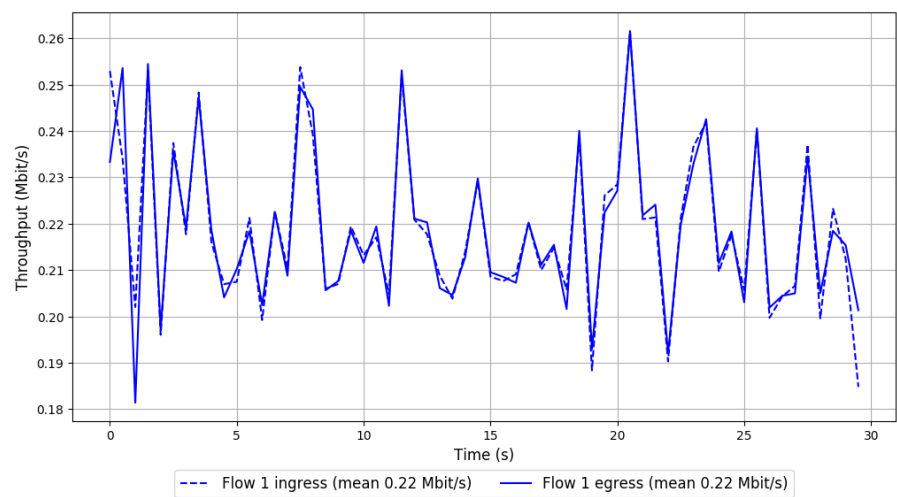


Run 5: Statistics of SCReAM

Start at: 2018-01-02 02:46:53
End at: 2018-01-02 02:47:23
Local clock offset: -9.127 ms
Remote clock offset: -0.744 ms

Below is generated by plot.py at 2018-01-02 05:00:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.505 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.505 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

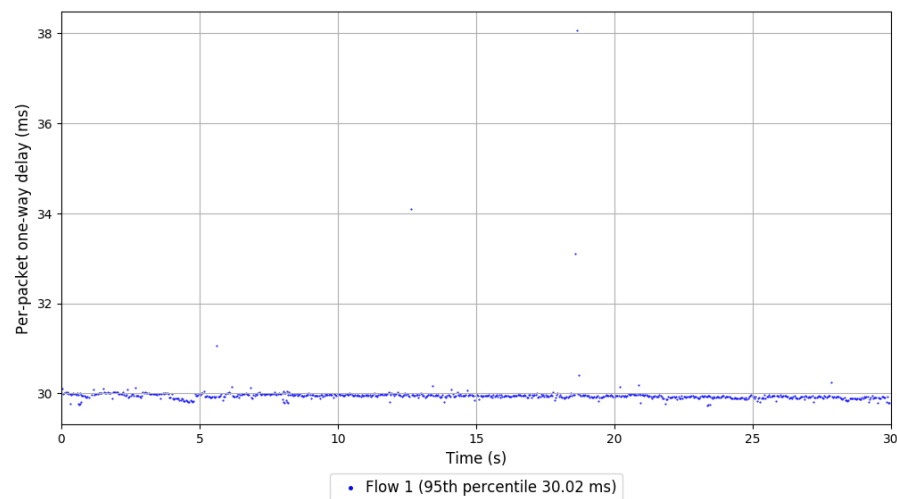
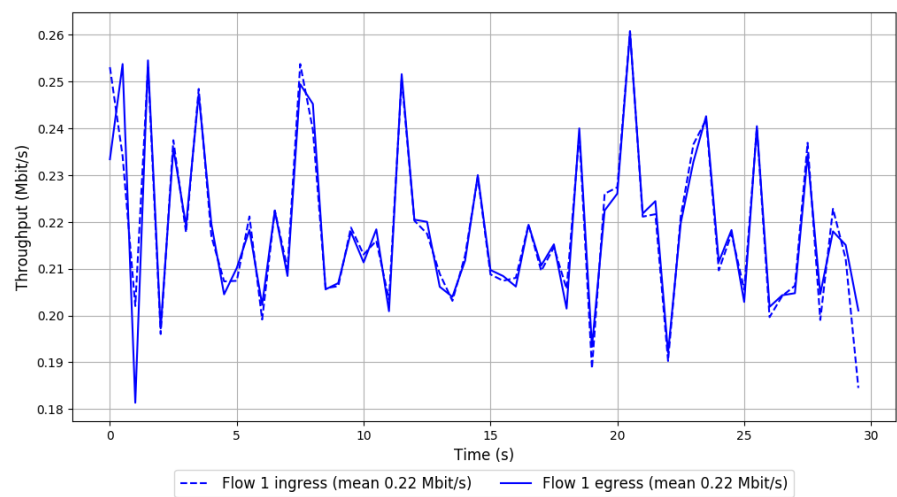


Run 6: Statistics of SCReAM

Start at: 2018-01-02 03:07:18
End at: 2018-01-02 03:07:48
Local clock offset: -11.063 ms
Remote clock offset: -0.213 ms

Below is generated by plot.py at 2018-01-02 05:00:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.018 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.018 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

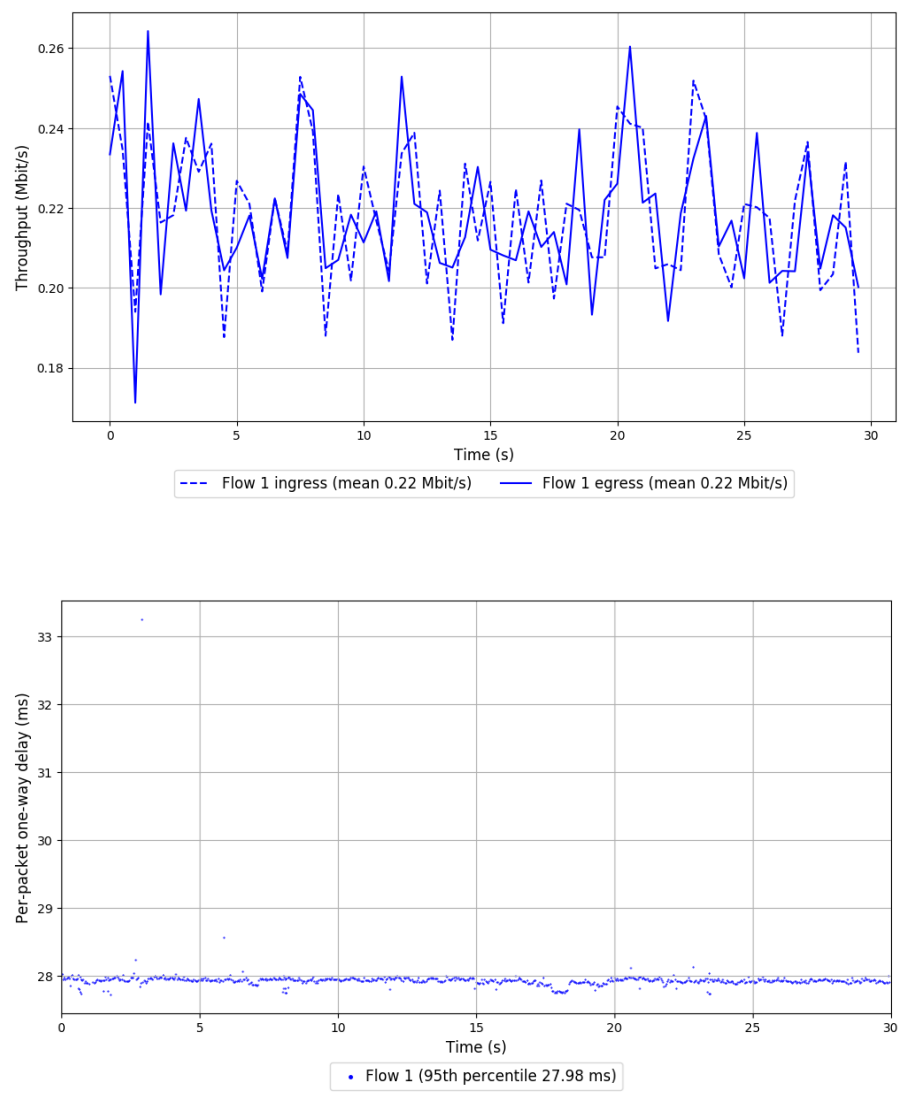


Run 7: Statistics of SCReAM

Start at: 2018-01-02 03:28:22
End at: 2018-01-02 03:28:52
Local clock offset: -12.412 ms
Remote clock offset: -1.192 ms

Below is generated by plot.py at 2018-01-02 05:00:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.982 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.982 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

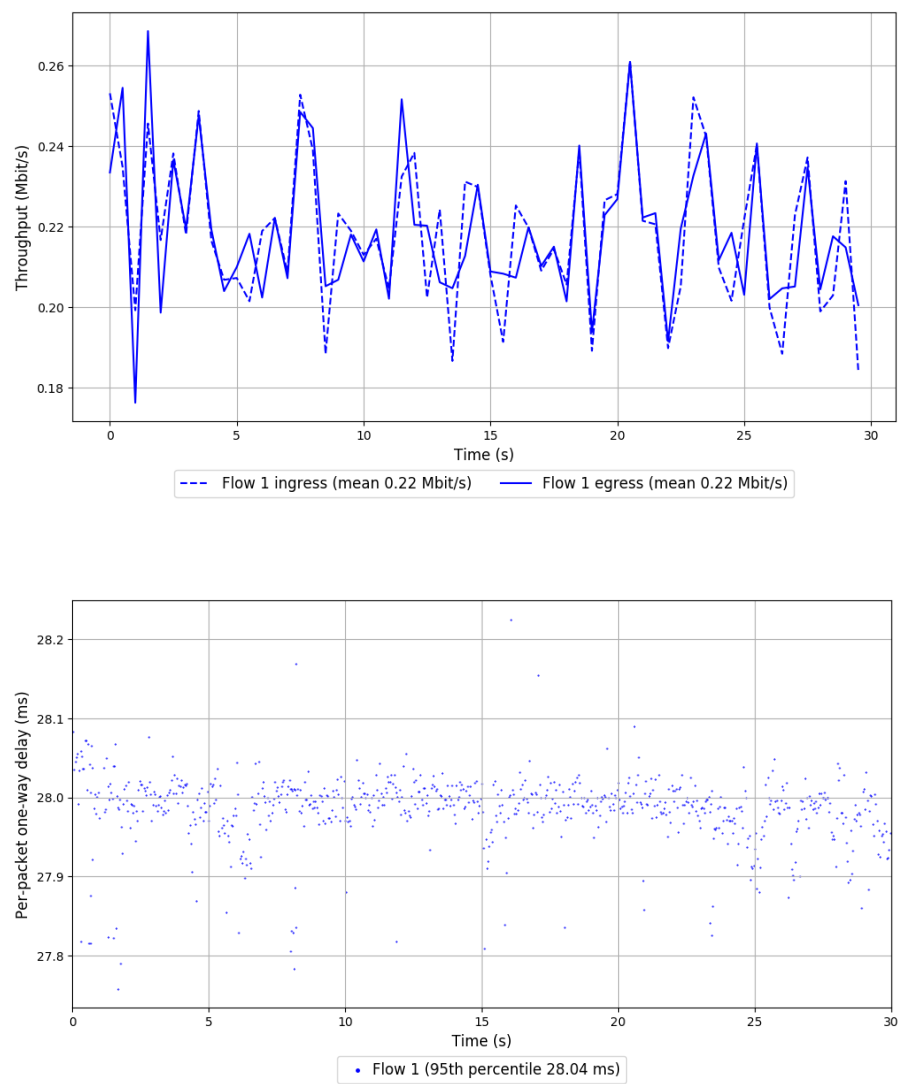


Run 8: Statistics of SCReAM

Start at: 2018-01-02 03:49:26
End at: 2018-01-02 03:49:56
Local clock offset: -13.429 ms
Remote clock offset: -1.349 ms

Below is generated by plot.py at 2018-01-02 05:00:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.036 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.036 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

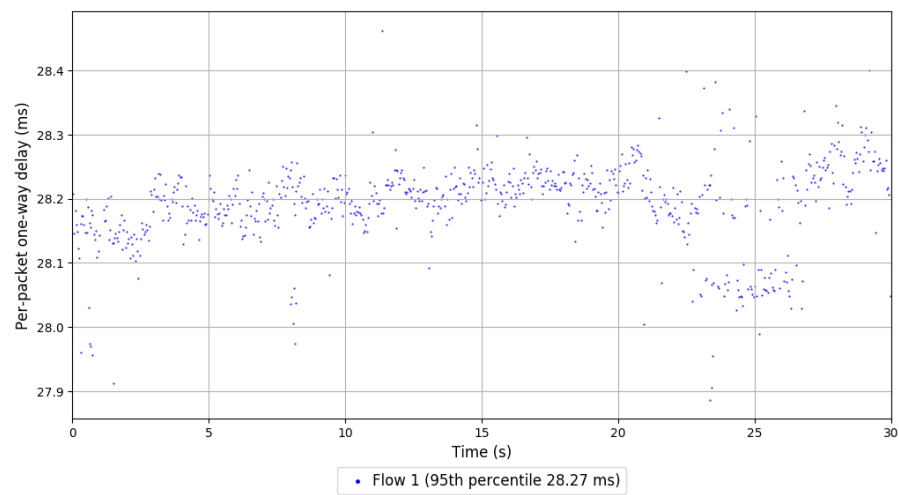
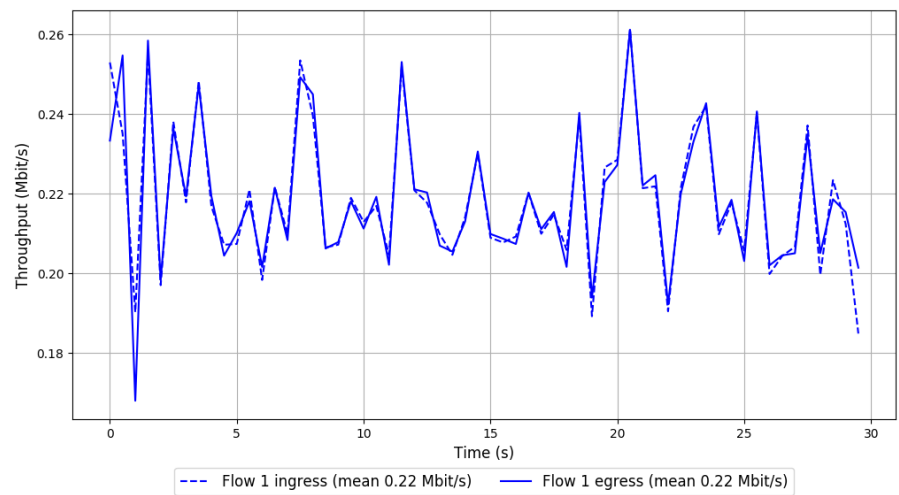


Run 9: Statistics of SReAM

Start at: 2018-01-02 04:11:04
End at: 2018-01-02 04:11:34
Local clock offset: -11.559 ms
Remote clock offset: -1.922 ms

Below is generated by plot.py at 2018-01-02 05:00:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.274 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.274 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

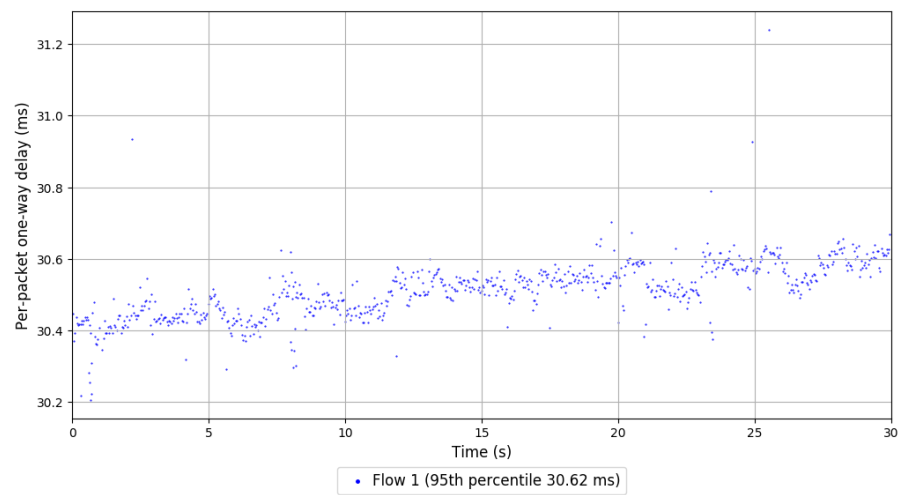
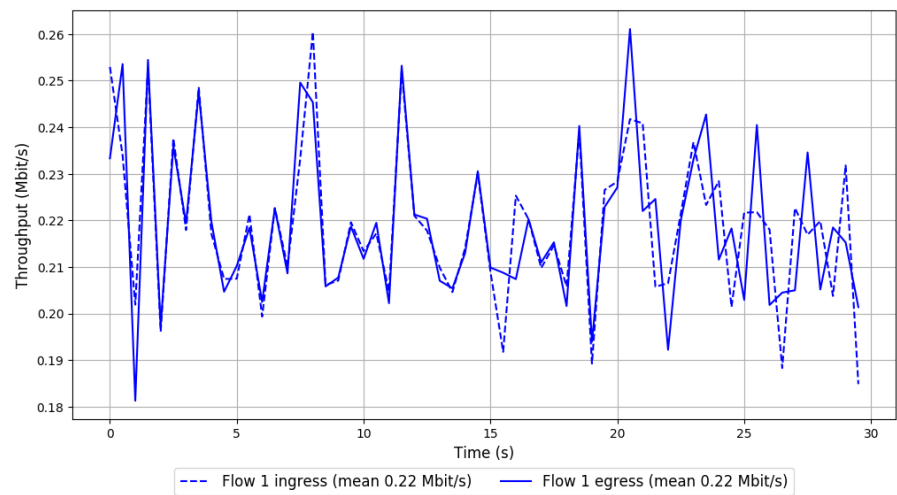


Run 10: Statistics of SReAM

Start at: 2018-01-02 04:31:35
End at: 2018-01-02 04:32:05
Local clock offset: -8.603 ms
Remote clock offset: -0.585 ms

Below is generated by plot.py at 2018-01-02 05:00:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.621 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.621 ms
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

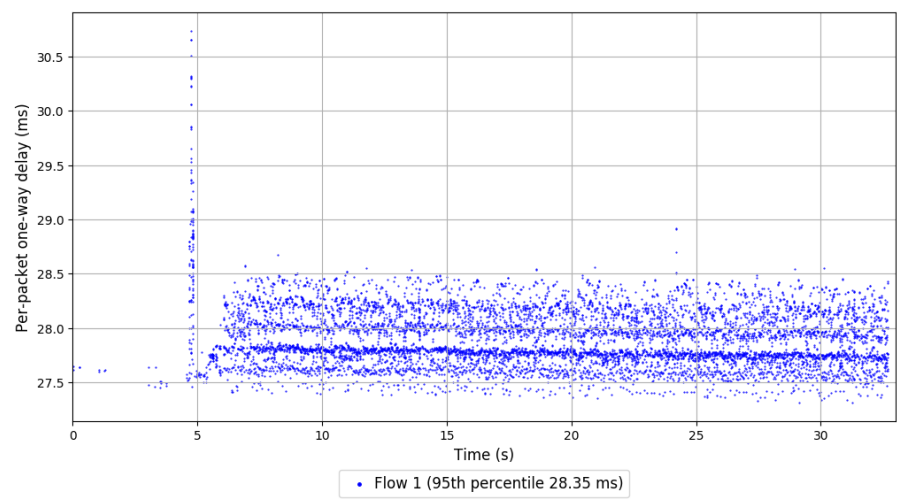
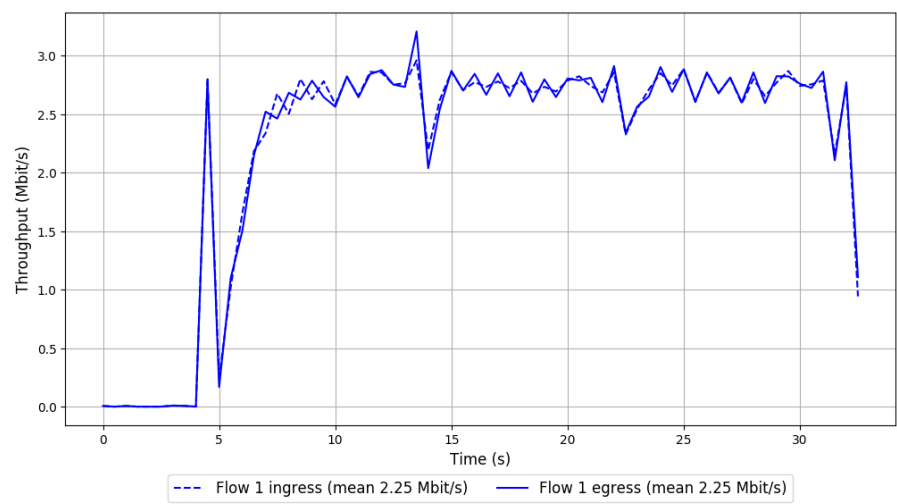


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-02 01:18:53
End at: 2018-01-02 01:19:23
Local clock offset: -0.372 ms
Remote clock offset: -2.044 ms

# Below is generated by plot.py at 2018-01-02 05:00:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 28.353 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 28.353 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

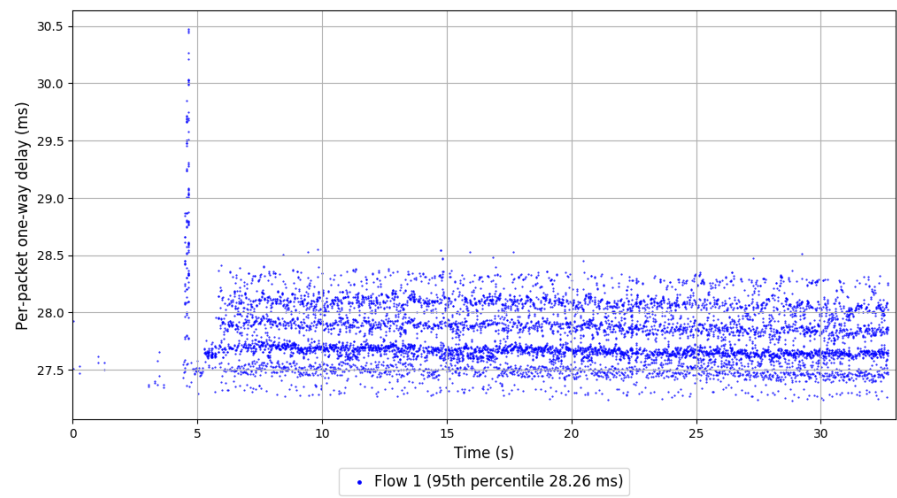
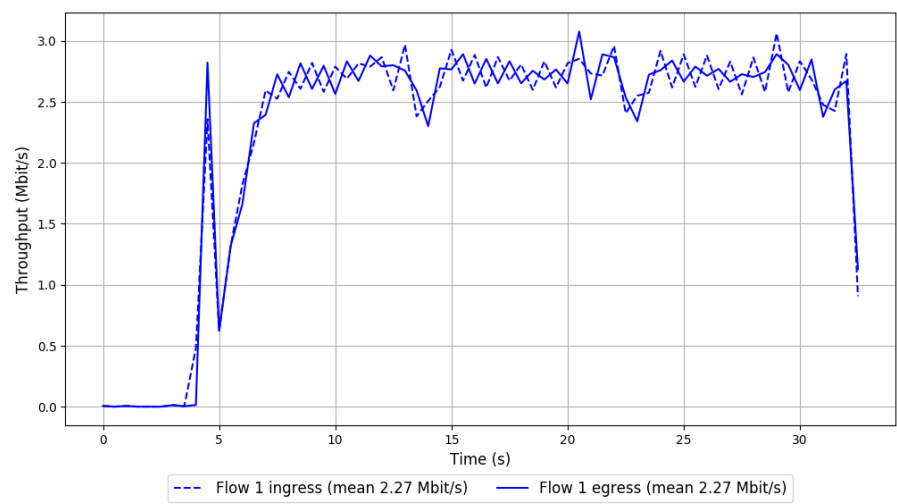


Run 2: Statistics of WebRTC media

Start at: 2018-01-02 01:42:05
End at: 2018-01-02 01:42:35
Local clock offset: -4.826 ms
Remote clock offset: -1.922 ms

Below is generated by plot.py at 2018-01-02 05:00:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 28.258 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 28.258 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

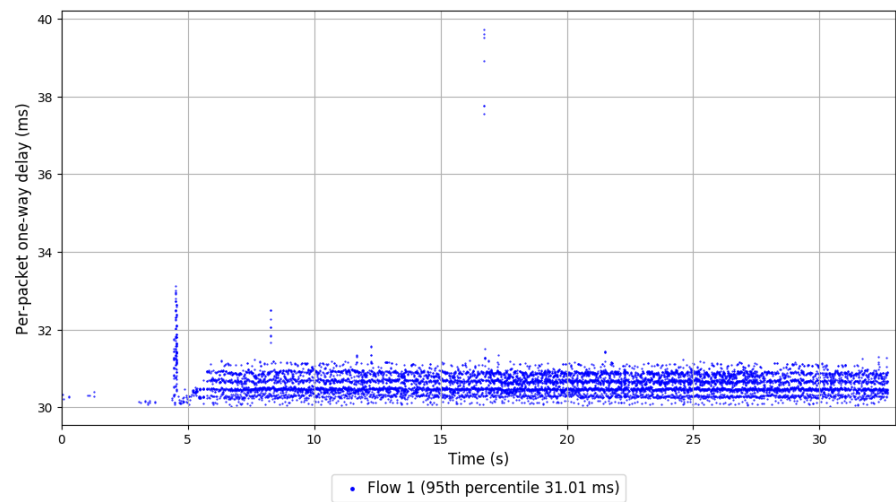
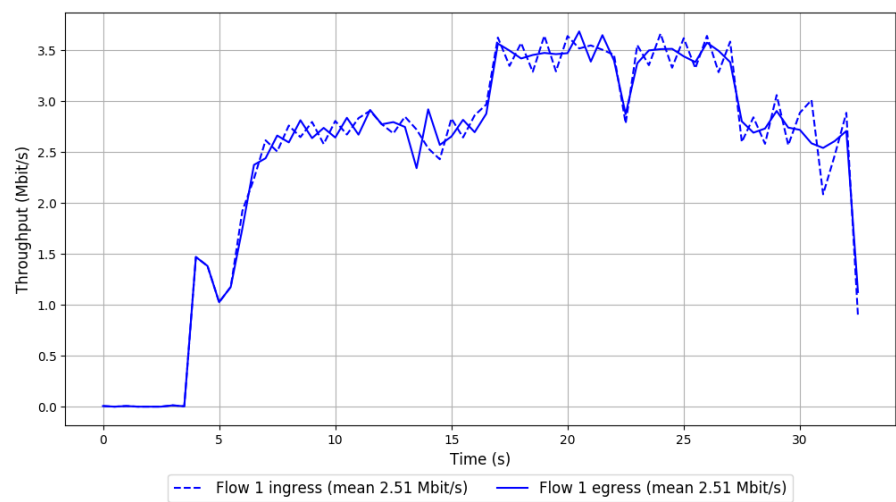


Run 3: Statistics of WebRTC media

Start at: 2018-01-02 02:05:16
End at: 2018-01-02 02:05:46
Local clock offset: -7.93 ms
Remote clock offset: -0.369 ms

Below is generated by plot.py at 2018-01-02 05:00:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.51 Mbit/s
95th percentile per-packet one-way delay: 31.014 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 2.51 Mbit/s
95th percentile per-packet one-way delay: 31.014 ms
Loss rate: 0.06%

Run 3: Report of WebRTC media — Data Link

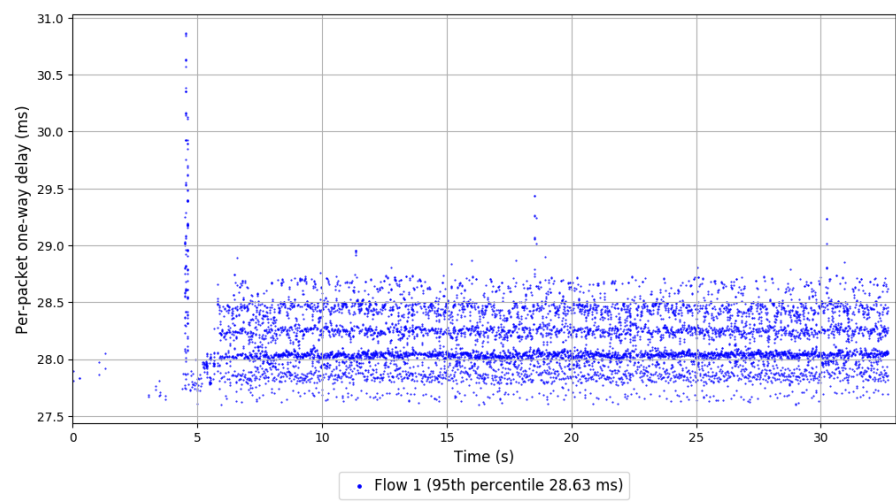
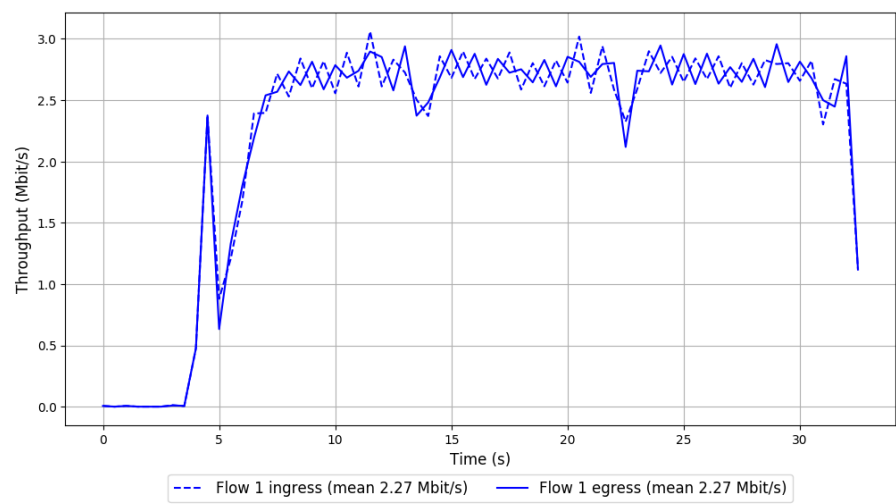


Run 4: Statistics of WebRTC media

Start at: 2018-01-02 02:26:59
End at: 2018-01-02 02:27:29
Local clock offset: -8.458 ms
Remote clock offset: -3.829 ms

Below is generated by plot.py at 2018-01-02 05:00:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 28.634 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 28.634 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

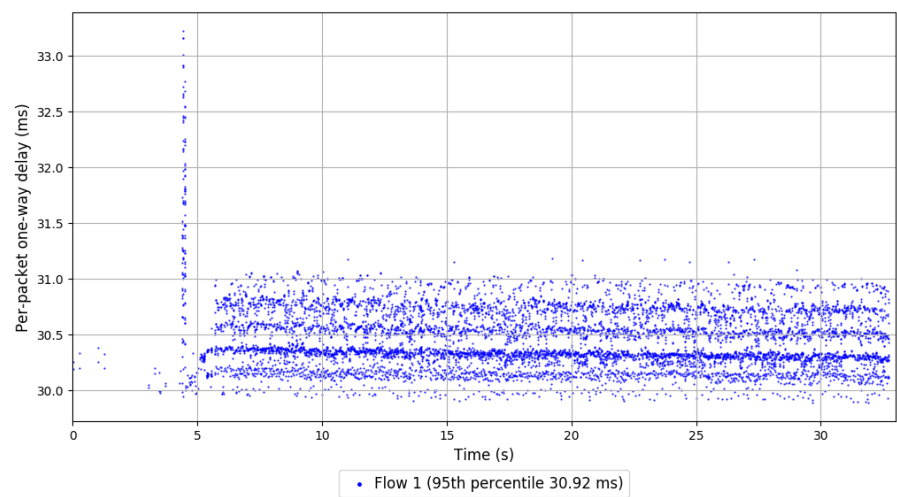
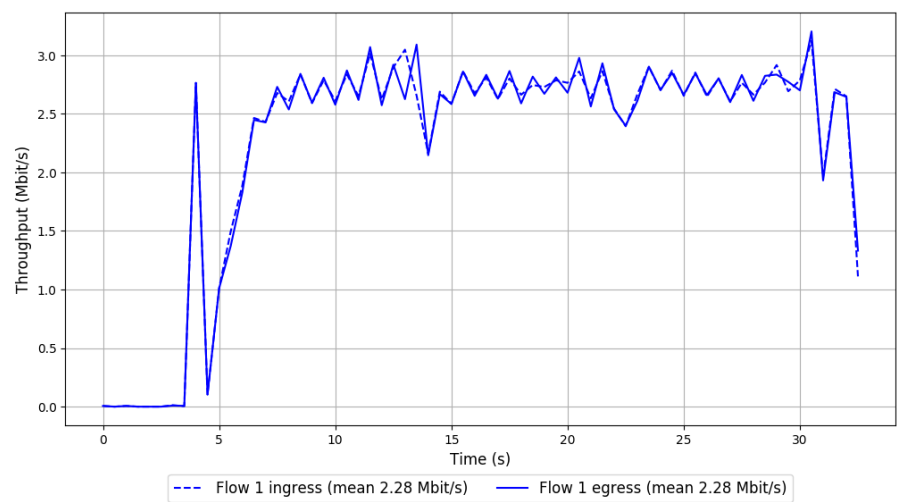


Run 5: Statistics of WebRTC media

Start at: 2018-01-02 02:48:08
End at: 2018-01-02 02:48:38
Local clock offset: -9.241 ms
Remote clock offset: -0.839 ms

Below is generated by plot.py at 2018-01-02 05:00:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 30.920 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 30.920 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

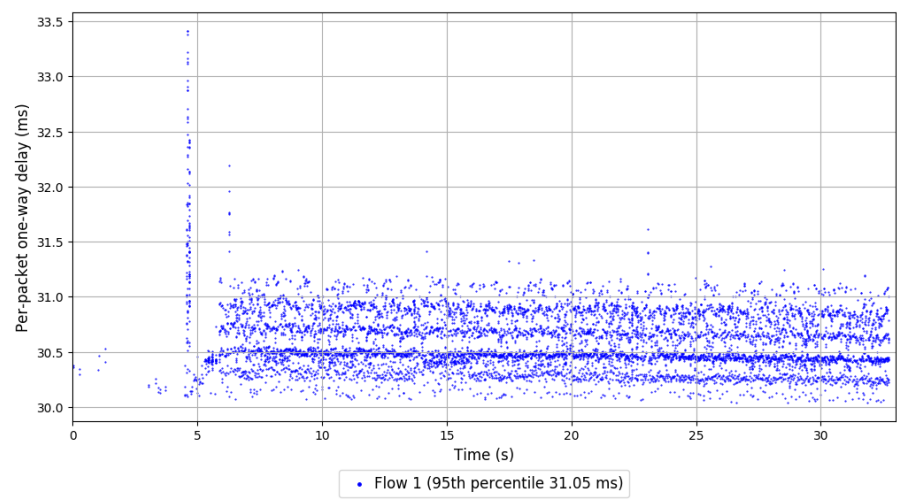
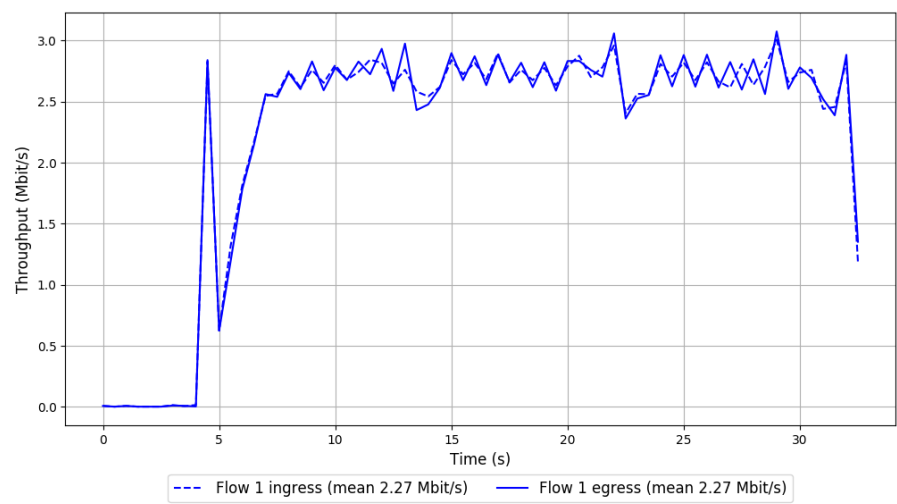


Run 6: Statistics of WebRTC media

Start at: 2018-01-02 03:08:34
End at: 2018-01-02 03:09:04
Local clock offset: -11.188 ms
Remote clock offset: 0.379 ms

Below is generated by plot.py at 2018-01-02 05:00:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 31.049 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 31.049 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

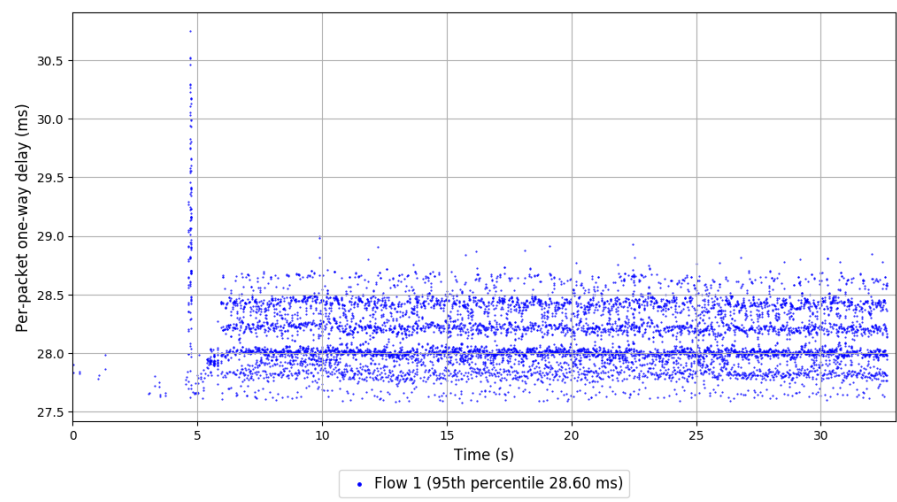
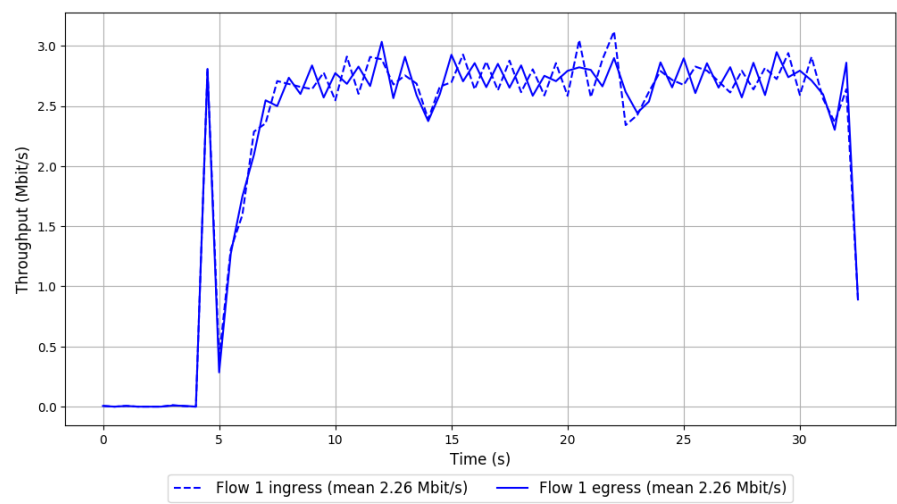


Run 7: Statistics of WebRTC media

Start at: 2018-01-02 03:29:38
End at: 2018-01-02 03:30:08
Local clock offset: -12.562 ms
Remote clock offset: -1.242 ms

Below is generated by plot.py at 2018-01-02 05:00:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 28.601 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 28.601 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

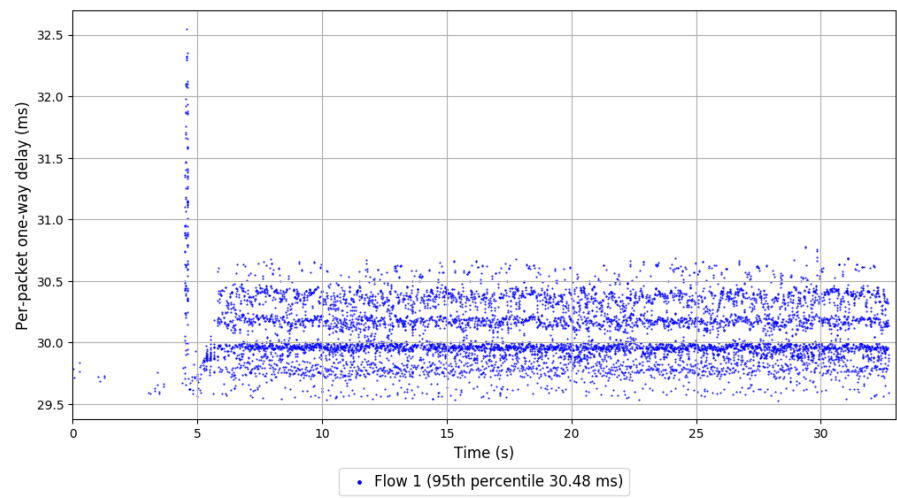
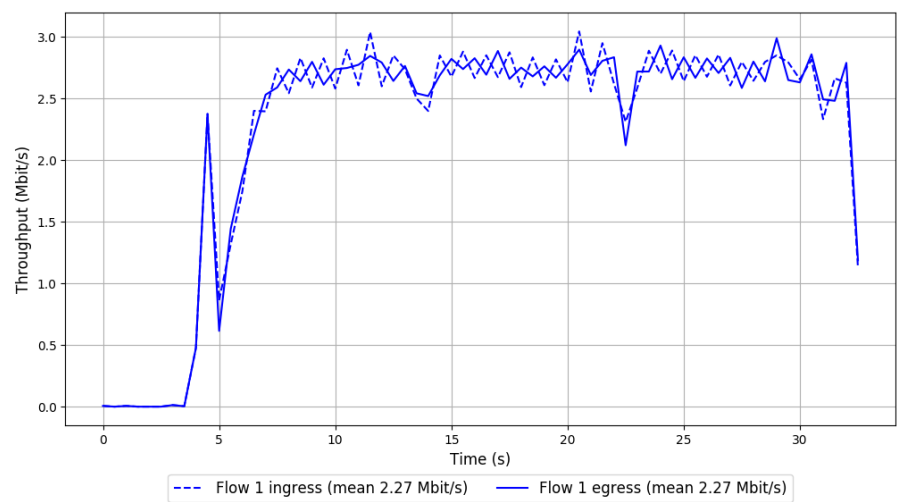


Run 8: Statistics of WebRTC media

Start at: 2018-01-02 03:50:43
End at: 2018-01-02 03:51:13
Local clock offset: -13.482 ms
Remote clock offset: 0.545 ms

Below is generated by plot.py at 2018-01-02 05:00:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 30.484 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 30.484 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

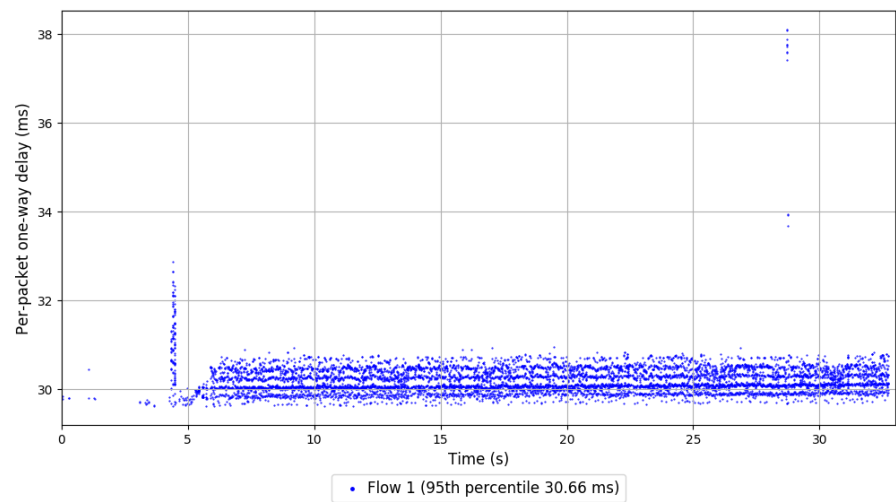
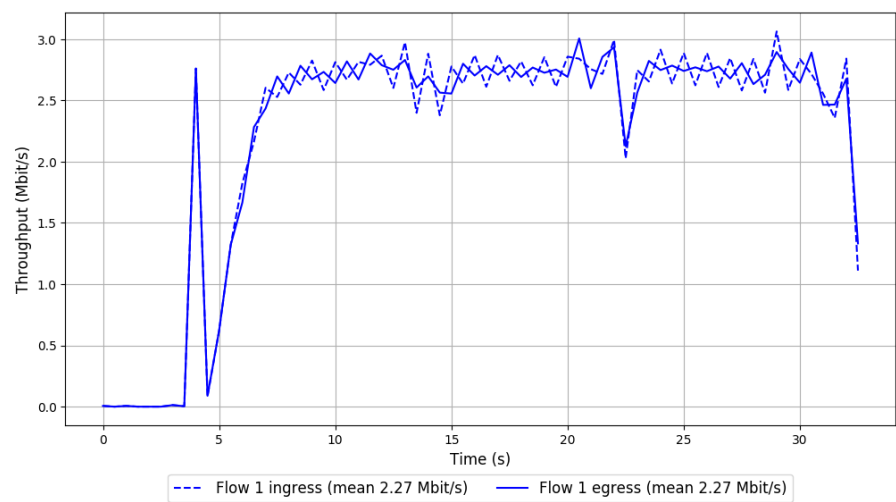


Run 9: Statistics of WebRTC media

Start at: 2018-01-02 04:12:20
End at: 2018-01-02 04:12:50
Local clock offset: -11.281 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2018-01-02 05:00:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 30.655 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 30.655 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link

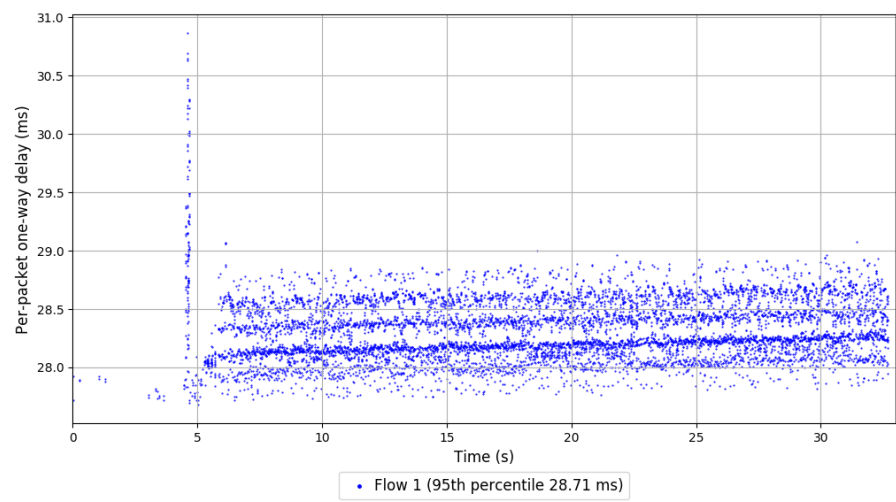
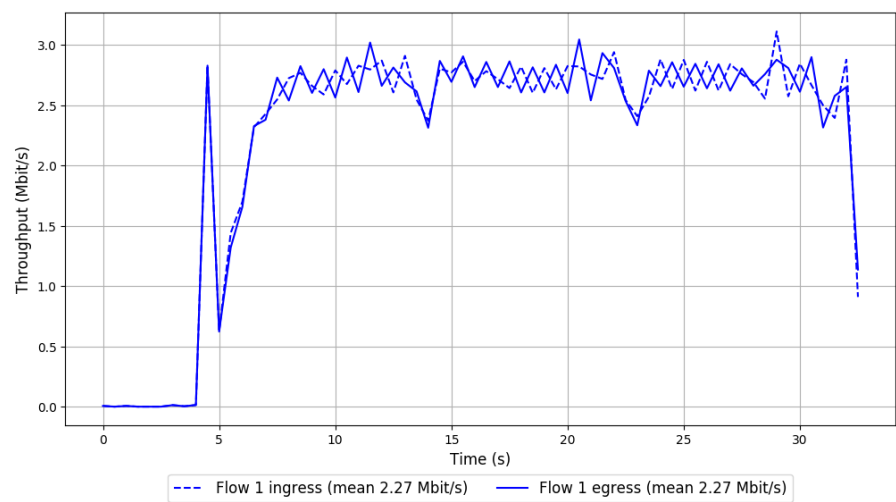


Run 10: Statistics of WebRTC media

Start at: 2018-01-02 04:32:50
End at: 2018-01-02 04:33:20
Local clock offset: -8.094 ms
Remote clock offset: -2.883 ms

Below is generated by plot.py at 2018-01-02 05:00:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 28.715 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 28.715 ms
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-02 01:00:32

End at: 2018-01-02 01:01:02

Local clock offset: -2.189 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2018-01-02 05:00:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.47 Mbit/s

95th percentile per-packet one-way delay: 34.747 ms

Loss rate: 0.19%

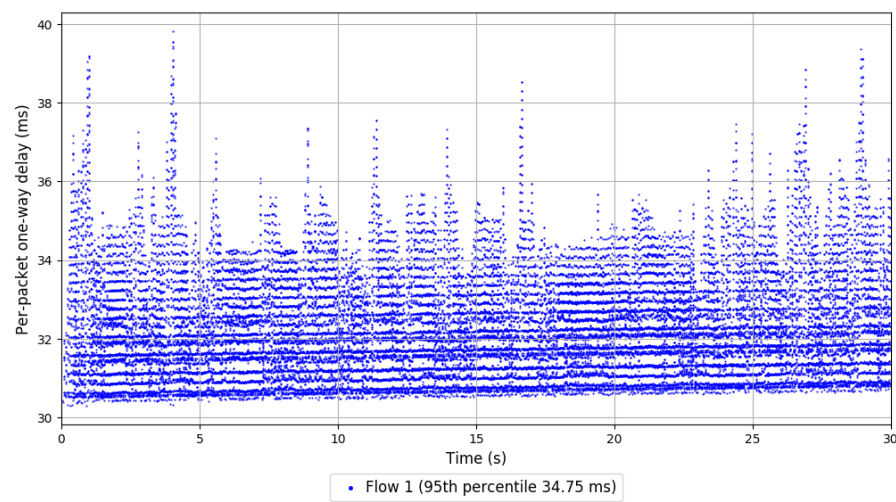
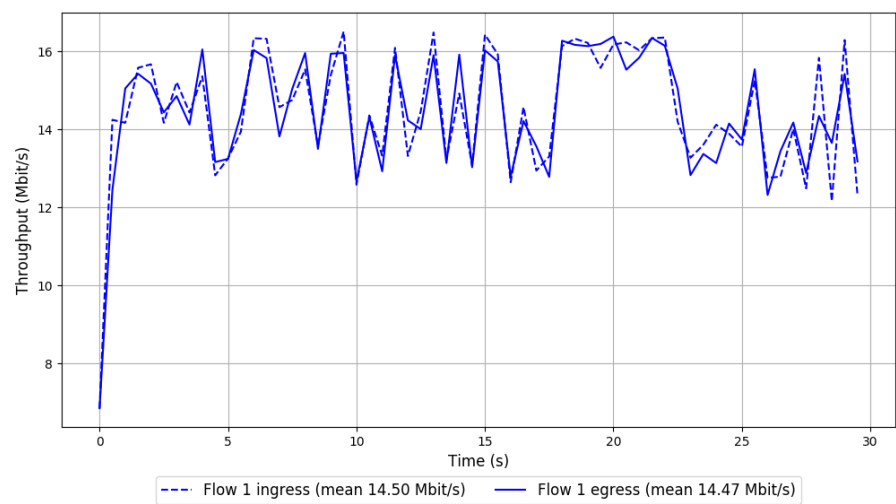
-- Flow 1:

Average throughput: 14.47 Mbit/s

95th percentile per-packet one-way delay: 34.747 ms

Loss rate: 0.19%

Run 1: Report of Sprout — Data Link

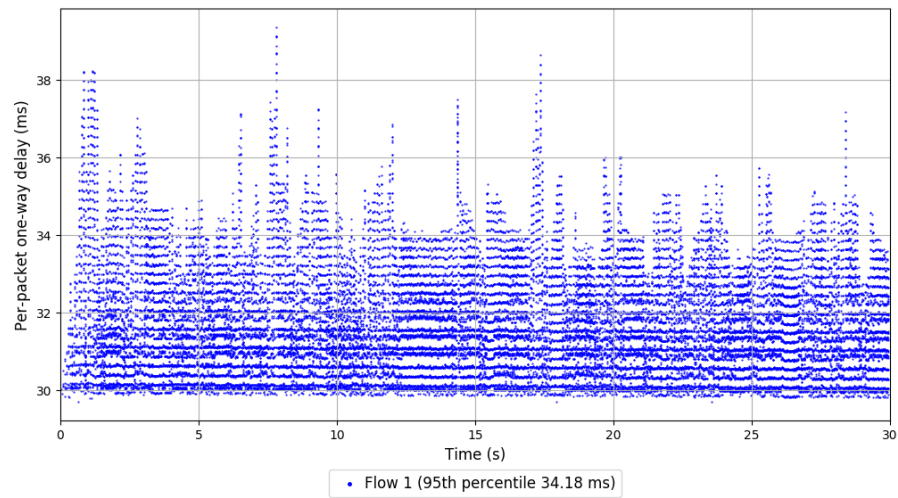
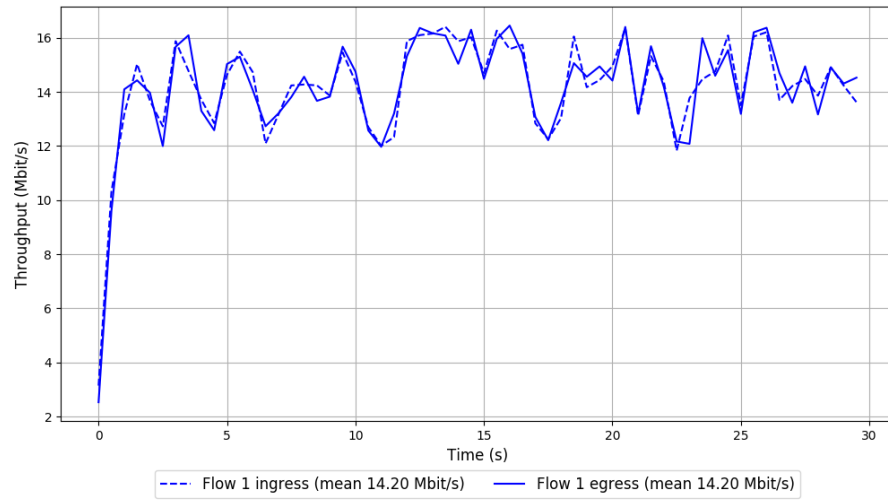


Run 2: Statistics of Sprout

Start at: 2018-01-02 01:23:28
End at: 2018-01-02 01:23:58
Local clock offset: -1.301 ms
Remote clock offset: 0.195 ms

Below is generated by plot.py at 2018-01-02 05:00:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 14.20 Mbit/s
95th percentile per-packet one-way delay: 34.183 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 14.20 Mbit/s
95th percentile per-packet one-way delay: 34.183 ms
Loss rate: 0.04%

Run 2: Report of Sprout — Data Link

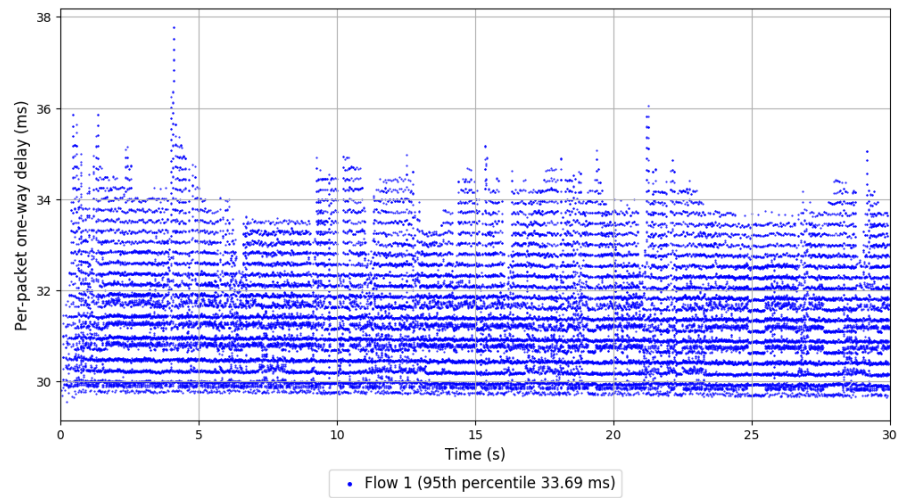
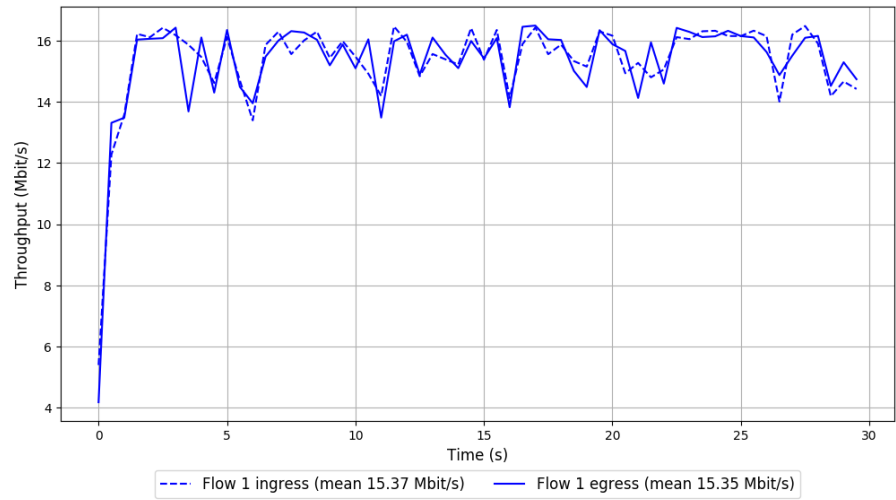


Run 3: Statistics of Sprout

Start at: 2018-01-02 01:46:42
End at: 2018-01-02 01:47:12
Local clock offset: -5.847 ms
Remote clock offset: 0.164 ms

Below is generated by plot.py at 2018-01-02 05:00:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.35 Mbit/s
95th percentile per-packet one-way delay: 33.691 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 15.35 Mbit/s
95th percentile per-packet one-way delay: 33.691 ms
Loss rate: 0.16%

Run 3: Report of Sprout — Data Link

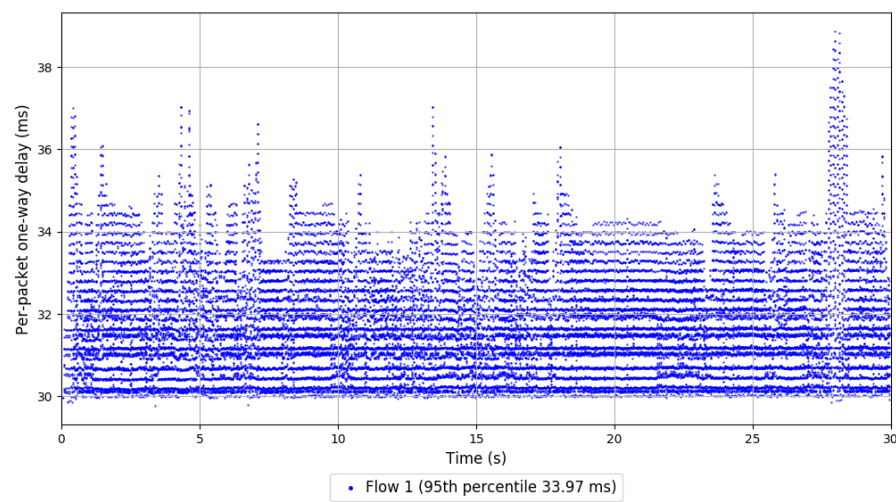
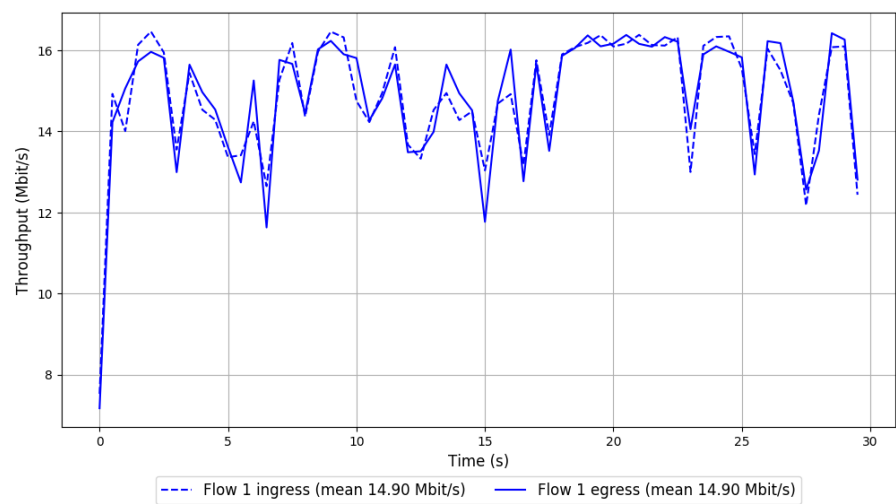


Run 4: Statistics of Sprout

Start at: 2018-01-02 02:09:39
End at: 2018-01-02 02:10:09
Local clock offset: -8.308 ms
Remote clock offset: -0.992 ms

Below is generated by plot.py at 2018-01-02 05:00:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 14.90 Mbit/s
95th percentile per-packet one-way delay: 33.971 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 14.90 Mbit/s
95th percentile per-packet one-way delay: 33.971 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

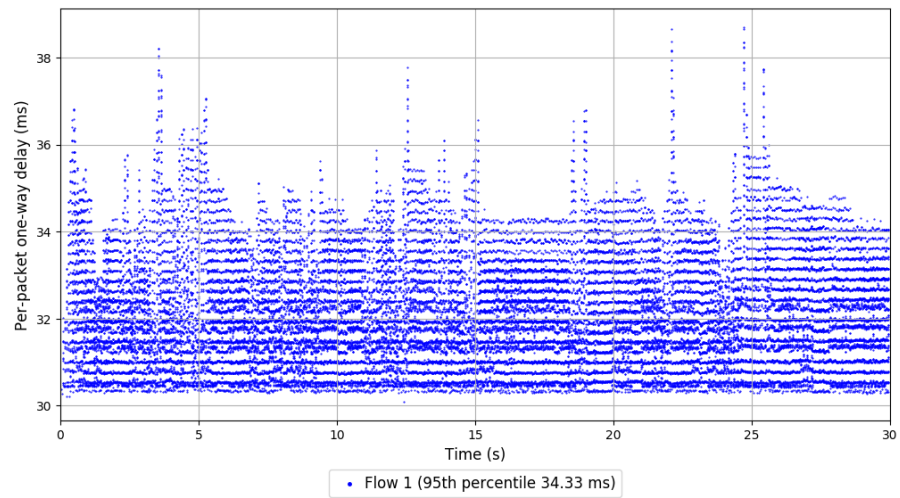
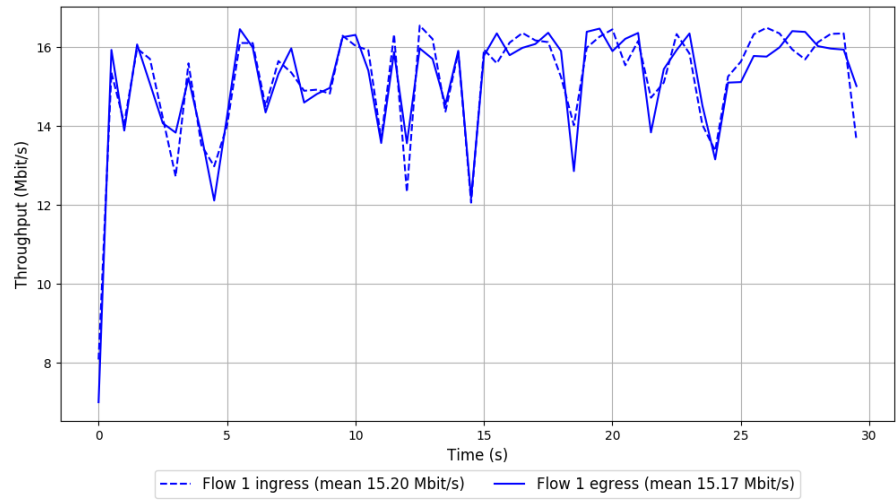


Run 5: Statistics of Sprout

Start at: 2018-01-02 02:31:13
End at: 2018-01-02 02:31:43
Local clock offset: -8.388 ms
Remote clock offset: -1.342 ms

Below is generated by plot.py at 2018-01-02 05:00:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.17 Mbit/s
95th percentile per-packet one-way delay: 34.329 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 15.17 Mbit/s
95th percentile per-packet one-way delay: 34.329 ms
Loss rate: 0.17%

Run 5: Report of Sprout — Data Link

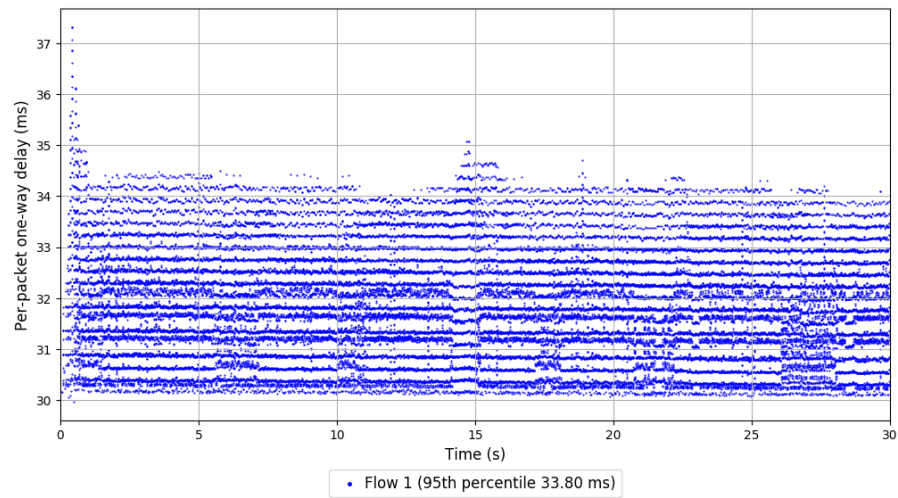
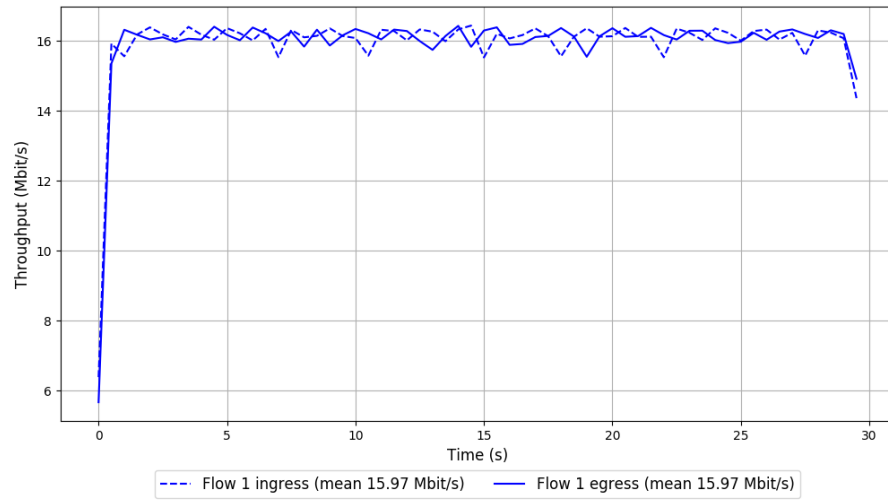


Run 6: Statistics of Sprout

Start at: 2018-01-02 02:52:13
End at: 2018-01-02 02:52:43
Local clock offset: -9.64 ms
Remote clock offset: -0.678 ms

Below is generated by plot.py at 2018-01-02 05:00:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.97 Mbit/s
95th percentile per-packet one-way delay: 33.802 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.97 Mbit/s
95th percentile per-packet one-way delay: 33.802 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

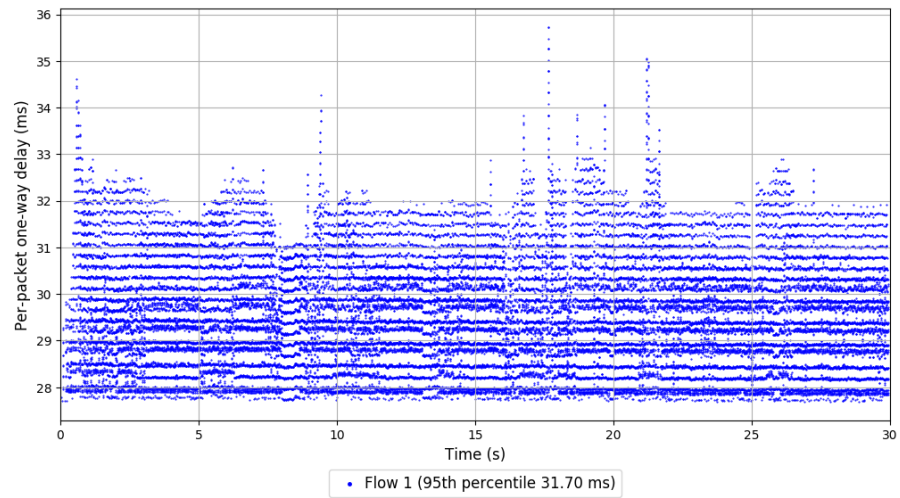
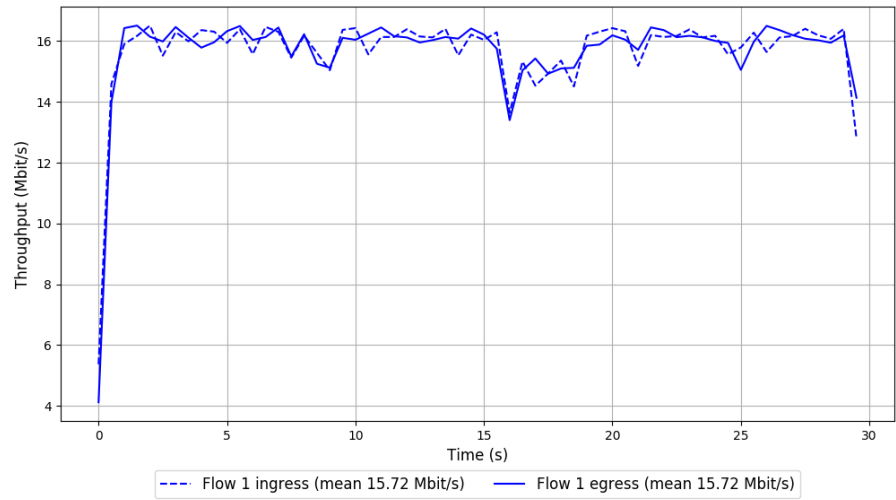


Run 7: Statistics of Sprout

Start at: 2018-01-02 03:12:46
End at: 2018-01-02 03:13:16
Local clock offset: -11.609 ms
Remote clock offset: -1.904 ms

Below is generated by plot.py at 2018-01-02 05:00:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.72 Mbit/s
95th percentile per-packet one-way delay: 31.697 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.72 Mbit/s
95th percentile per-packet one-way delay: 31.697 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

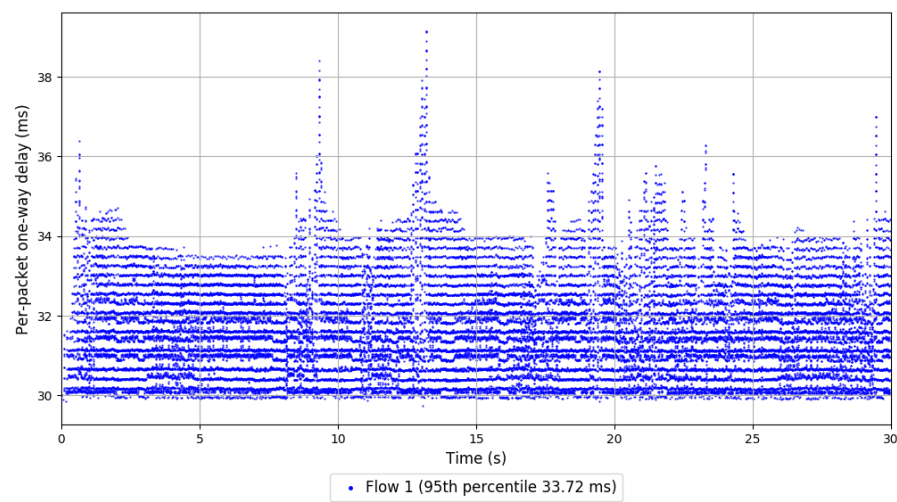
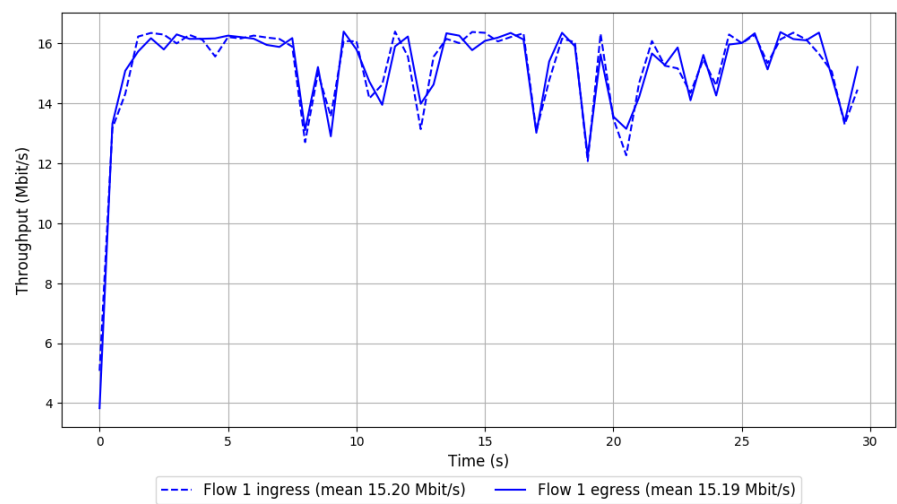


Run 8: Statistics of Sprout

Start at: 2018-01-02 03:33:56
End at: 2018-01-02 03:34:26
Local clock offset: -12.752 ms
Remote clock offset: 0.853 ms

Below is generated by plot.py at 2018-01-02 05:00:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.19 Mbit/s
95th percentile per-packet one-way delay: 33.716 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.19 Mbit/s
95th percentile per-packet one-way delay: 33.716 ms
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

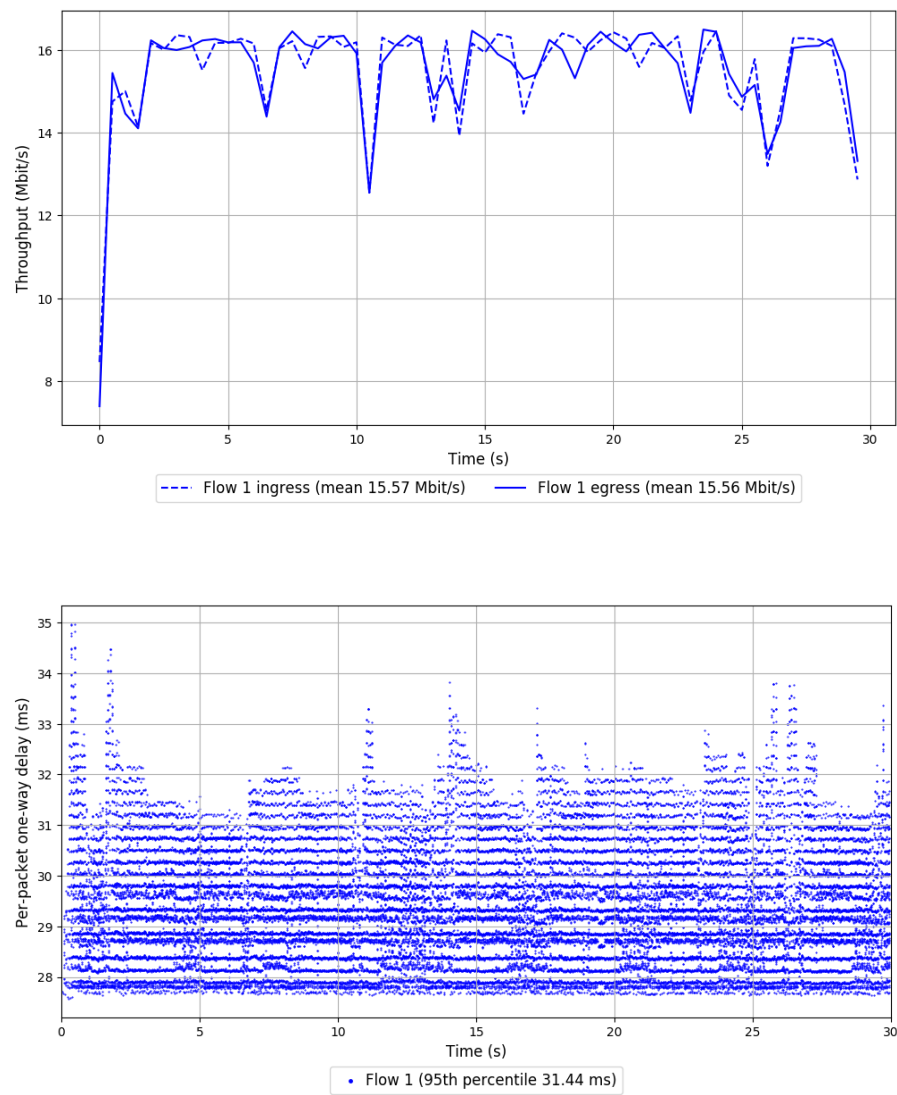


Run 9: Statistics of Sprout

Start at: 2018-01-02 03:55:03
End at: 2018-01-02 03:55:33
Local clock offset: -13.655 ms
Remote clock offset: -1.61 ms

Below is generated by plot.py at 2018-01-02 05:00:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.56 Mbit/s
95th percentile per-packet one-way delay: 31.437 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 15.56 Mbit/s
95th percentile per-packet one-way delay: 31.437 ms
Loss rate: 0.03%

Run 9: Report of Sprout — Data Link

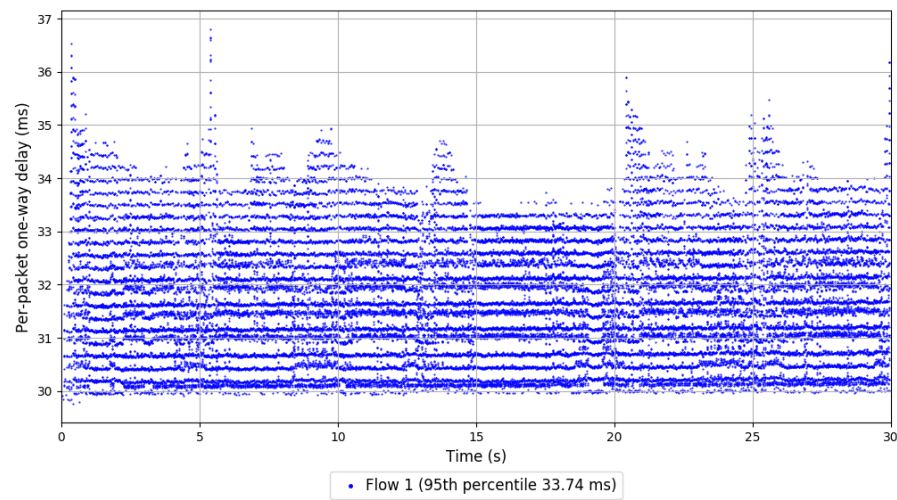
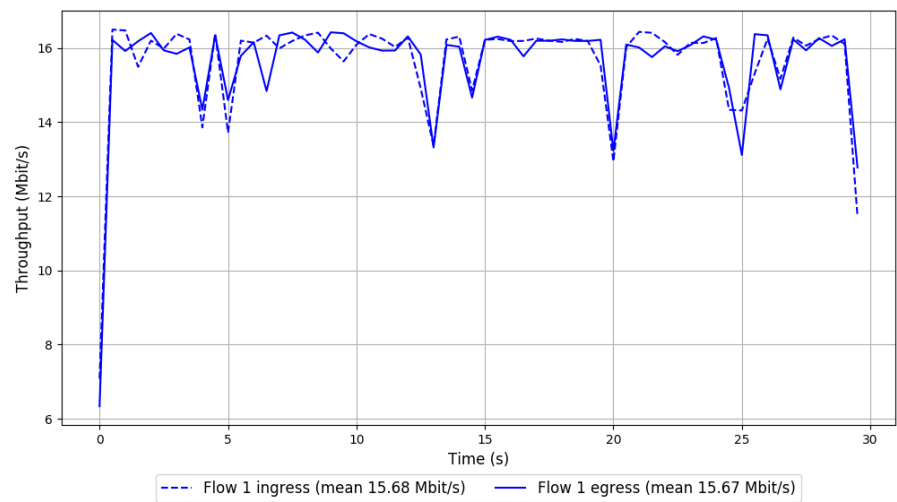


Run 10: Statistics of Sprout

Start at: 2018-01-02 04:16:26
End at: 2018-01-02 04:16:56
Local clock offset: -10.924 ms
Remote clock offset: -0.179 ms

Below is generated by plot.py at 2018-01-02 05:00:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.67 Mbit/s
95th percentile per-packet one-way delay: 33.737 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 15.67 Mbit/s
95th percentile per-packet one-way delay: 33.737 ms
Loss rate: 0.04%

Run 10: Report of Sprout — Data Link

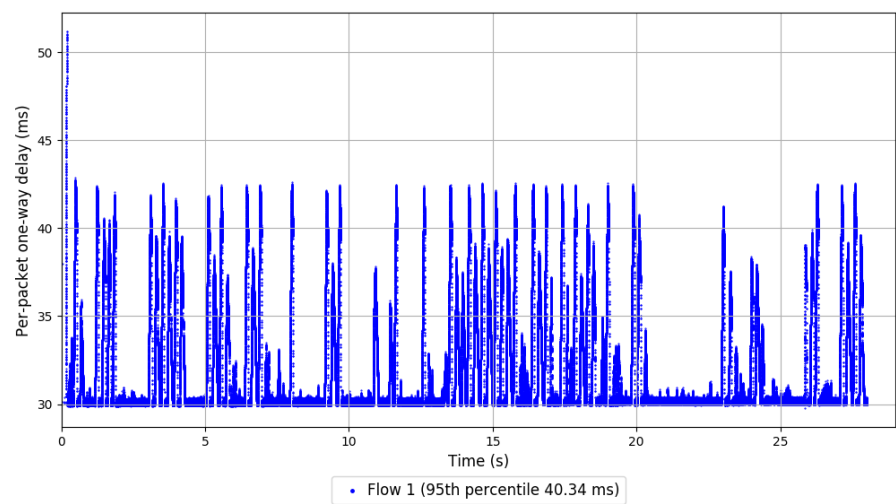
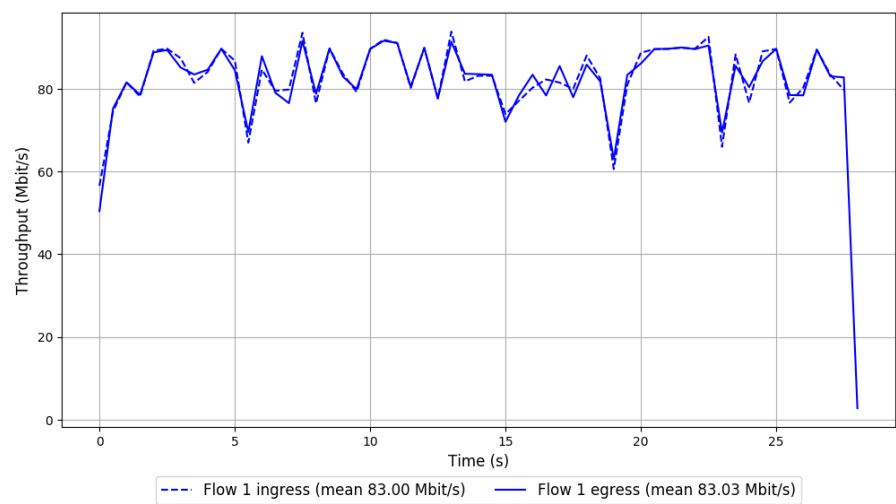


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-02 01:08:11
End at: 2018-01-02 01:08:41
Local clock offset: 1.05 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2018-01-02 05:01:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.03 Mbit/s
95th percentile per-packet one-way delay: 40.340 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 83.03 Mbit/s
95th percentile per-packet one-way delay: 40.340 ms
Loss rate: 0.00%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-01-02 01:30:57

End at: 2018-01-02 01:31:27

Local clock offset: -2.73 ms

Remote clock offset: 0.267 ms

Below is generated by plot.py at 2018-01-02 05:01:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.57 Mbit/s

95th percentile per-packet one-way delay: 40.722 ms

Loss rate: 0.00%

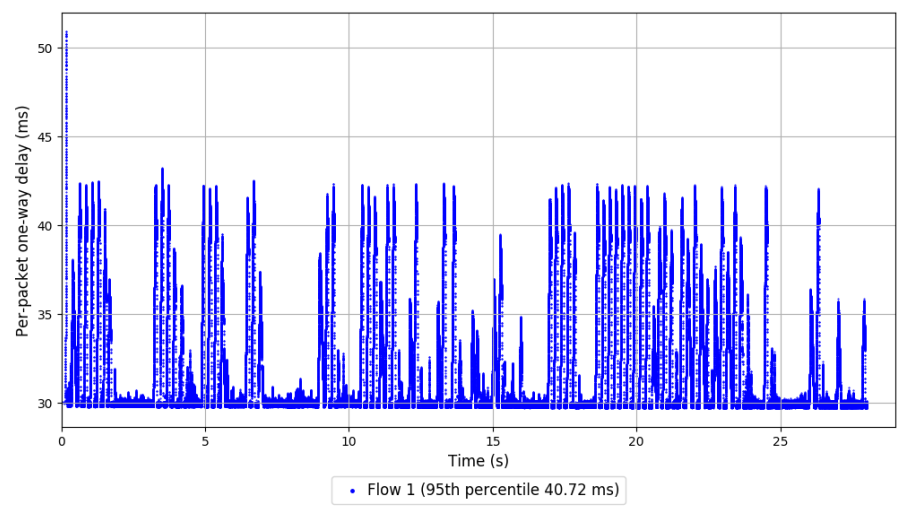
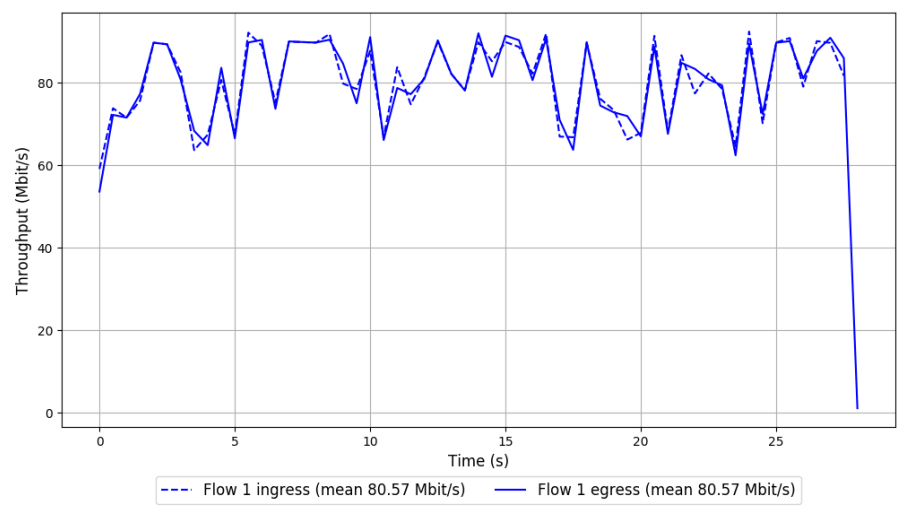
-- Flow 1:

Average throughput: 80.57 Mbit/s

95th percentile per-packet one-way delay: 40.722 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-01-02 01:54:27

End at: 2018-01-02 01:54:57

Local clock offset: -7.353 ms

Remote clock offset: -2.25 ms

Below is generated by plot.py at 2018-01-02 05:01:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.09 Mbit/s

95th percentile per-packet one-way delay: 38.515 ms

Loss rate: 0.00%

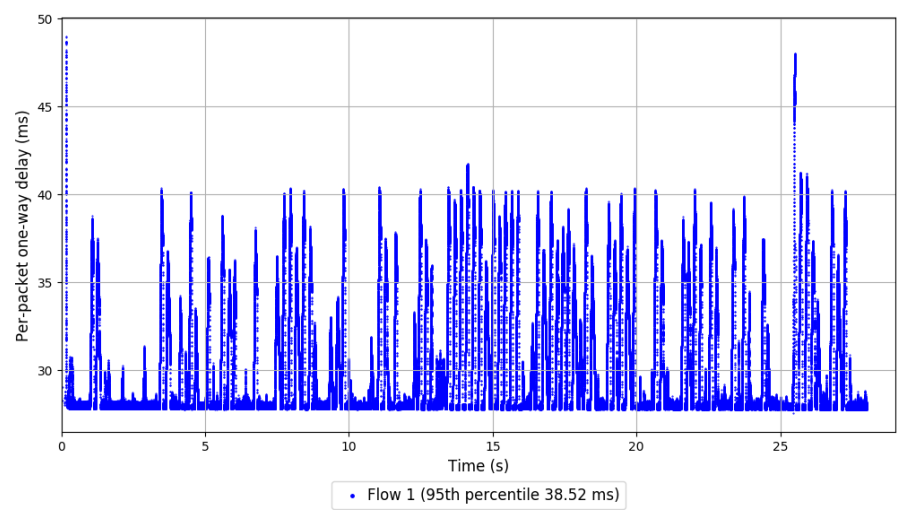
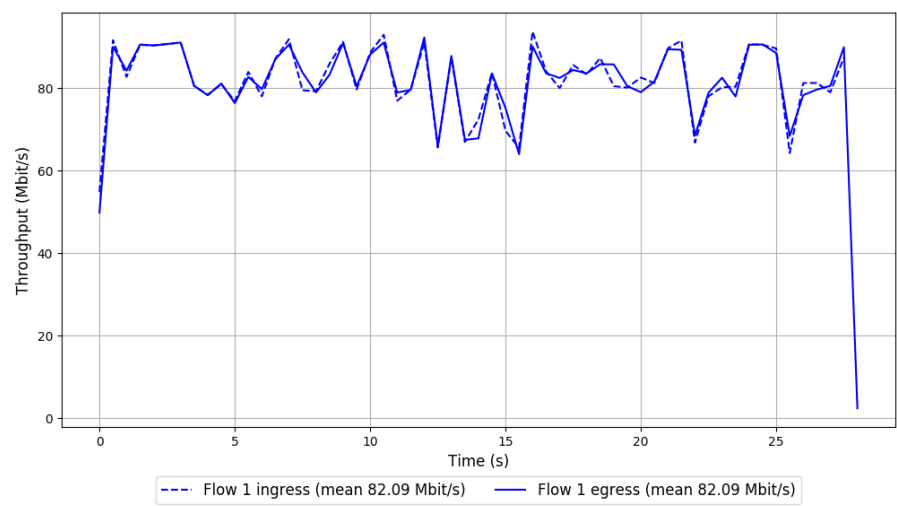
-- Flow 1:

Average throughput: 82.09 Mbit/s

95th percentile per-packet one-way delay: 38.515 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-02 02:16:54

End at: 2018-01-02 02:17:24

Local clock offset: -8.481 ms

Remote clock offset: -0.891 ms

Below is generated by plot.py at 2018-01-02 05:01:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.49 Mbit/s

95th percentile per-packet one-way delay: 41.998 ms

Loss rate: 0.10%

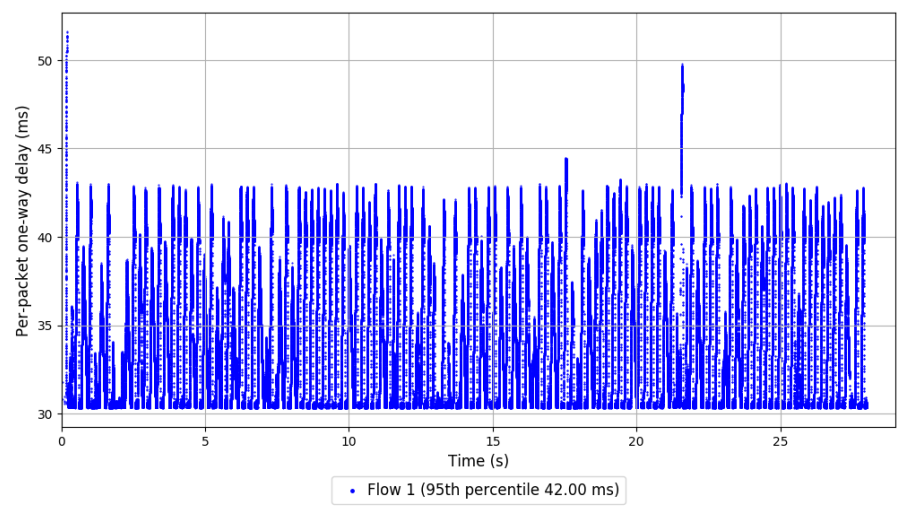
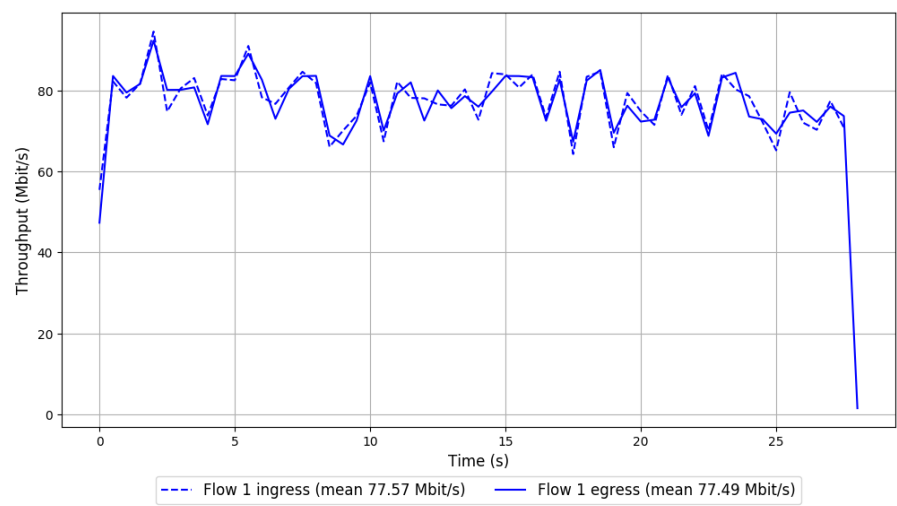
-- Flow 1:

Average throughput: 77.49 Mbit/s

95th percentile per-packet one-way delay: 41.998 ms

Loss rate: 0.10%

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

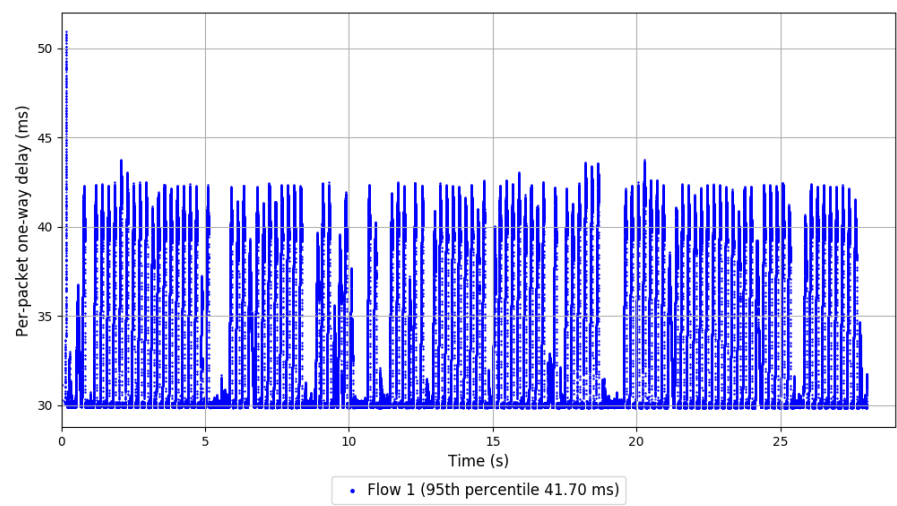
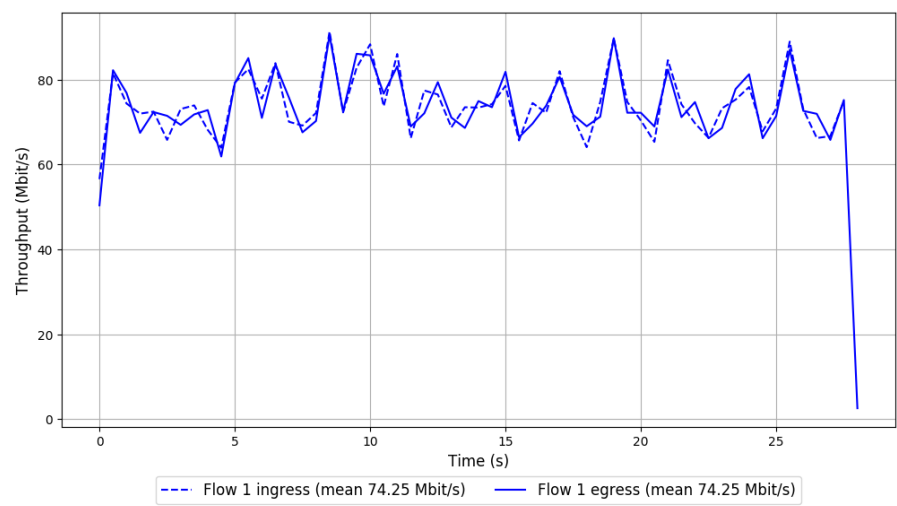


Run 5: Statistics of TaoVA-100x

Start at: 2018-01-02 02:38:17
End at: 2018-01-02 02:38:47
Local clock offset: -8.576 ms
Remote clock offset: -1.551 ms

Below is generated by plot.py at 2018-01-02 05:01:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.25 Mbit/s
95th percentile per-packet one-way delay: 41.698 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 74.25 Mbit/s
95th percentile per-packet one-way delay: 41.698 ms
Loss rate: 0.00%

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

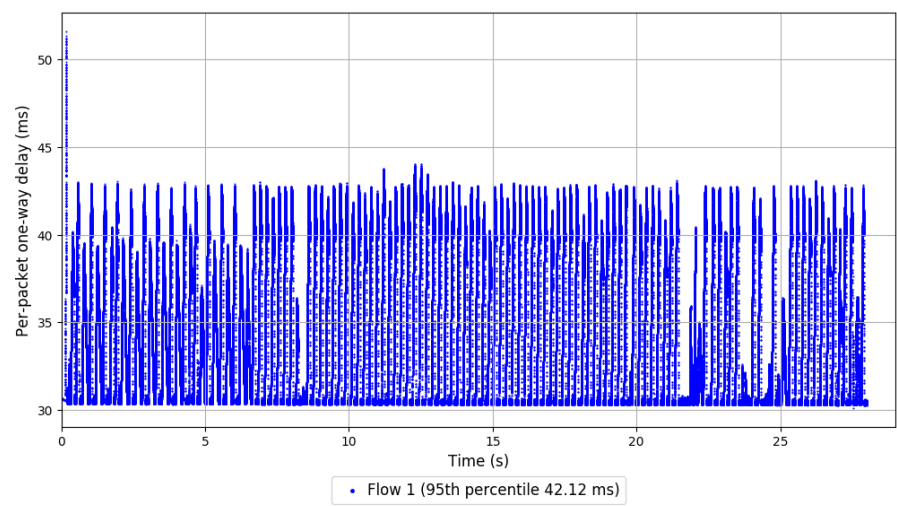
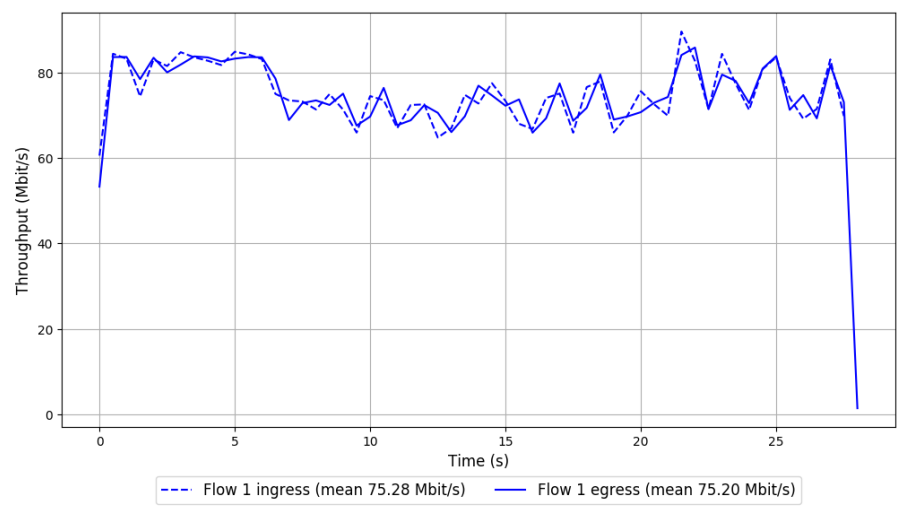


Run 6: Statistics of TaoVA-100x

Start at: 2018-01-02 02:59:04
End at: 2018-01-02 02:59:34
Local clock offset: -10.334 ms
Remote clock offset: -0.163 ms

Below is generated by plot.py at 2018-01-02 05:01:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.20 Mbit/s
95th percentile per-packet one-way delay: 42.116 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 75.20 Mbit/s
95th percentile per-packet one-way delay: 42.116 ms
Loss rate: 0.11%

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

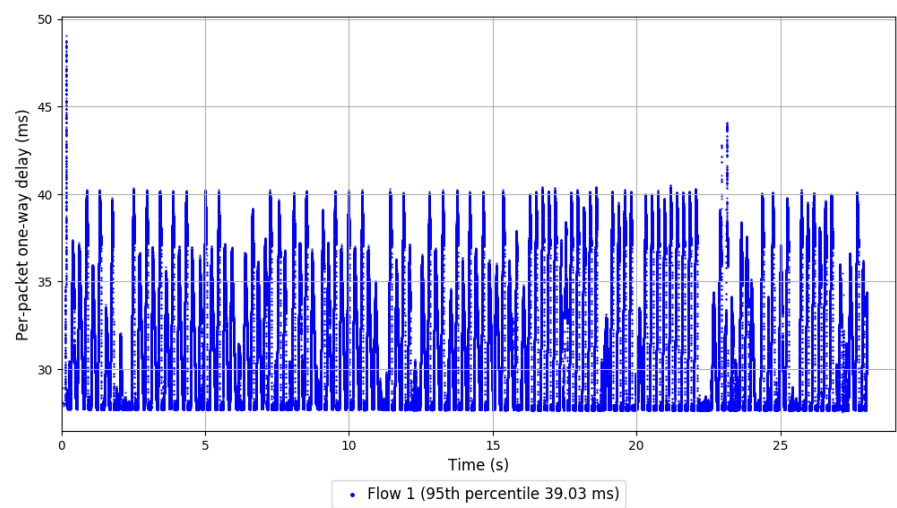
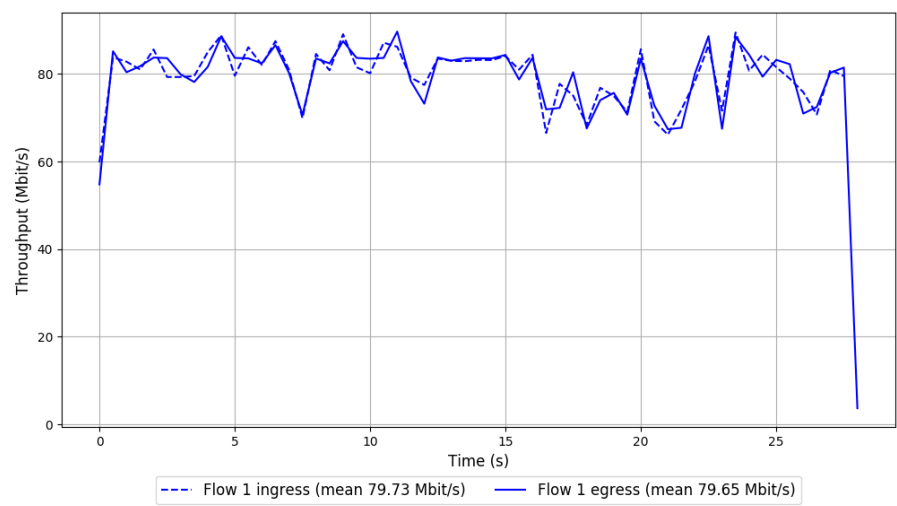


Run 7: Statistics of TaoVA-100x

Start at: 2018-01-02 03:19:55
End at: 2018-01-02 03:20:25
Local clock offset: -12.051 ms
Remote clock offset: -1.544 ms

Below is generated by plot.py at 2018-01-02 05:01:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.65 Mbit/s
95th percentile per-packet one-way delay: 39.032 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 79.65 Mbit/s
95th percentile per-packet one-way delay: 39.032 ms
Loss rate: 0.08%

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

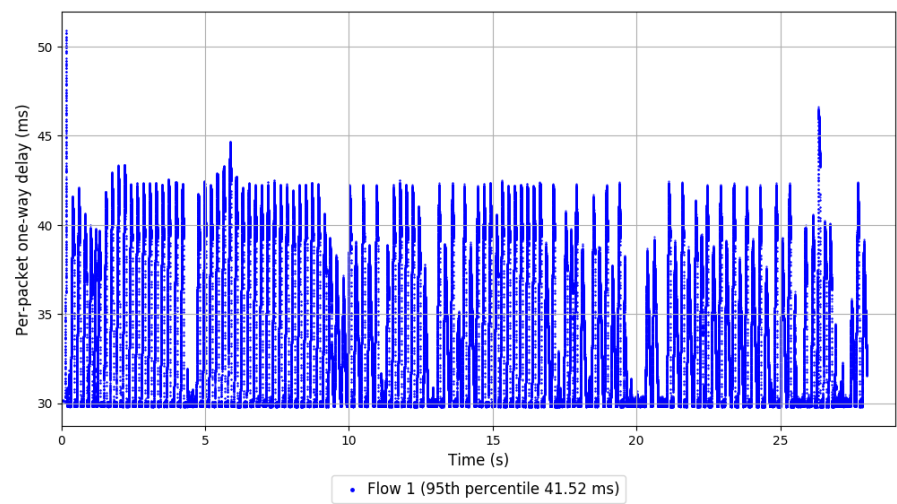
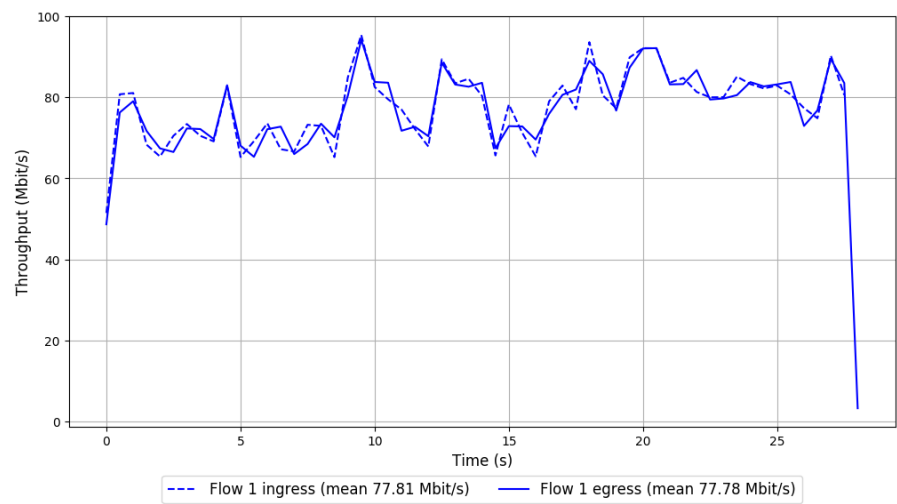


Run 8: Statistics of TaoVA-100x

Start at: 2018-01-02 03:40:56
End at: 2018-01-02 03:41:26
Local clock offset: -13.124 ms
Remote clock offset: 0.745 ms

Below is generated by plot.py at 2018-01-02 05:02:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.78 Mbit/s
95th percentile per-packet one-way delay: 41.522 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 77.78 Mbit/s
95th percentile per-packet one-way delay: 41.522 ms
Loss rate: 0.03%

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

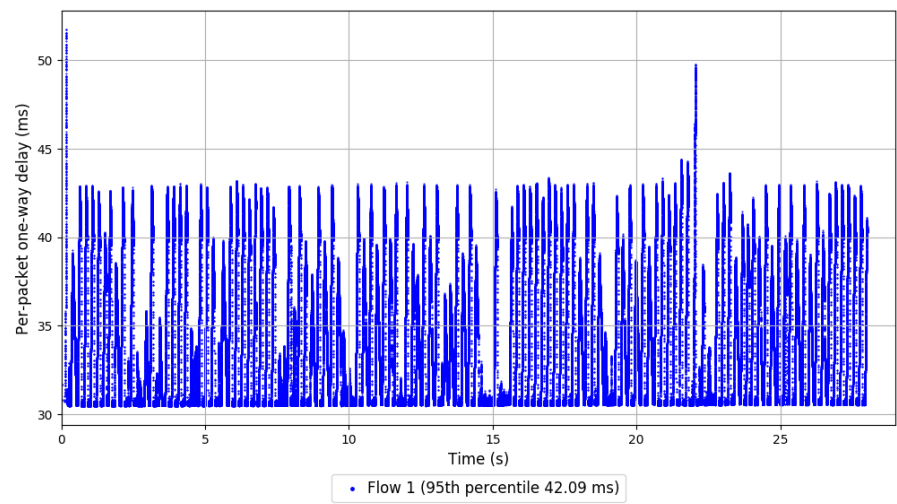
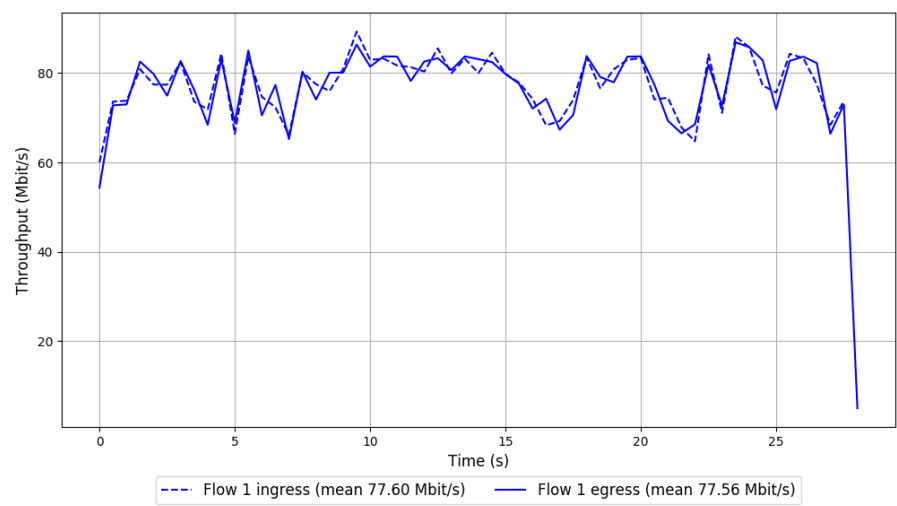


Run 9: Statistics of TaoVA-100x

Start at: 2018-01-02 04:02:32
End at: 2018-01-02 04:03:02
Local clock offset: -12.924 ms
Remote clock offset: 0.872 ms

Below is generated by plot.py at 2018-01-02 05:03:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.56 Mbit/s
95th percentile per-packet one-way delay: 42.088 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 77.56 Mbit/s
95th percentile per-packet one-way delay: 42.088 ms
Loss rate: 0.02%

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

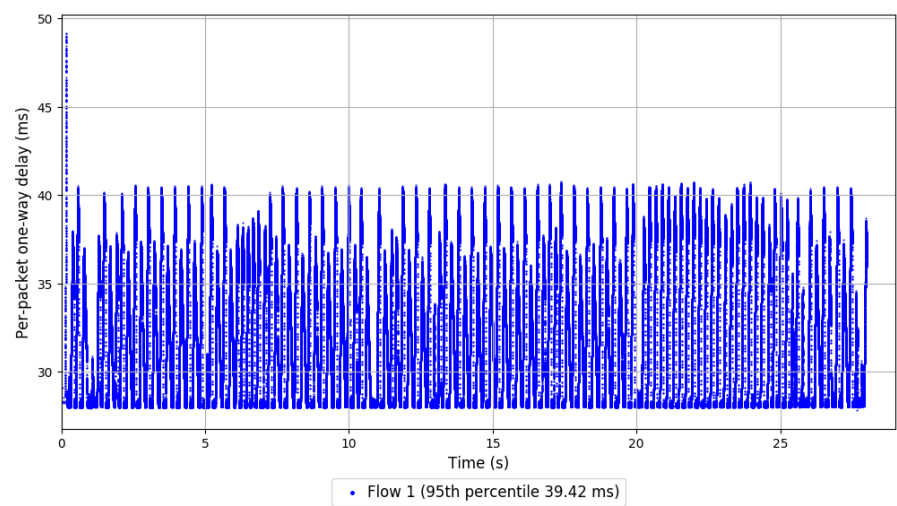
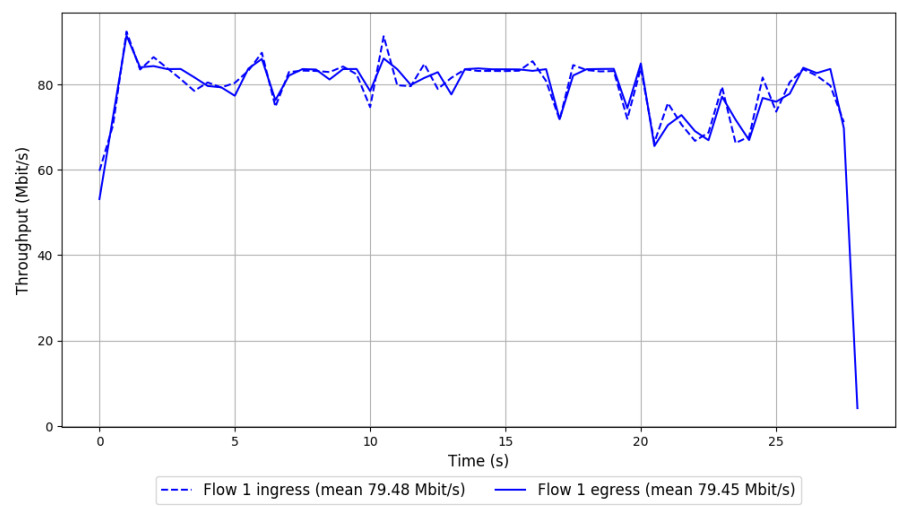


Run 10: Statistics of TaoVA-100x

Start at: 2018-01-02 04:23:17
End at: 2018-01-02 04:23:47
Local clock offset: -10.431 ms
Remote clock offset: -2.362 ms

Below is generated by plot.py at 2018-01-02 05:03:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.45 Mbit/s
95th percentile per-packet one-way delay: 39.421 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 79.45 Mbit/s
95th percentile per-packet one-way delay: 39.421 ms
Loss rate: 0.01%

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

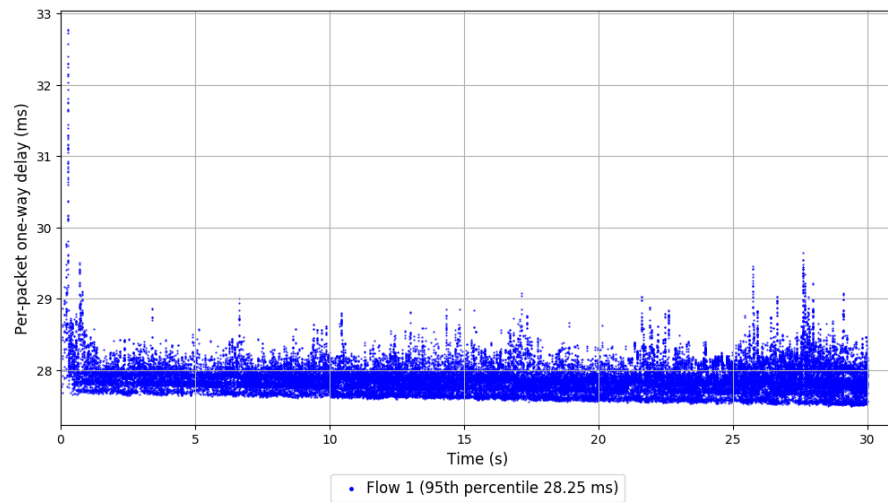
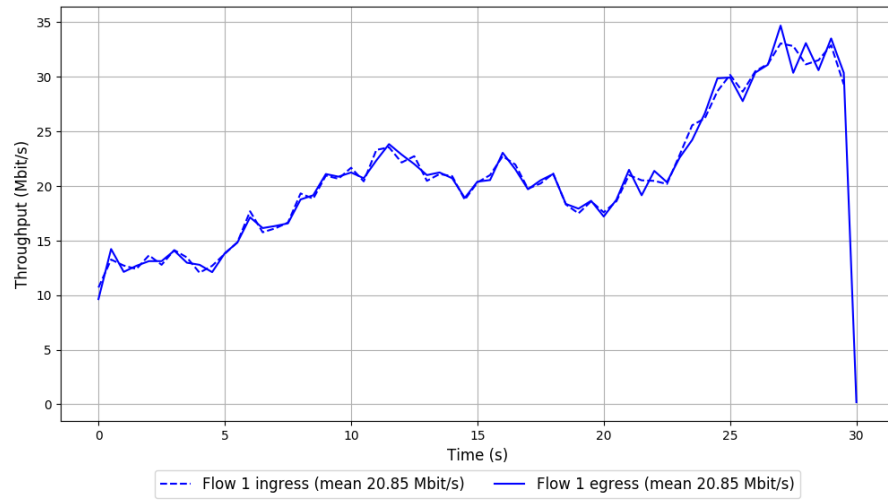


Run 1: Statistics of TCP Vegas

Start at: 2018-01-02 01:13:20
End at: 2018-01-02 01:13:50
Local clock offset: 1.274 ms
Remote clock offset: -1.946 ms

Below is generated by plot.py at 2018-01-02 05:03:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.85 Mbit/s
95th percentile per-packet one-way delay: 28.254 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.85 Mbit/s
95th percentile per-packet one-way delay: 28.254 ms
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-02 01:36:02

End at: 2018-01-02 01:36:32

Local clock offset: -3.725 ms

Remote clock offset: 0.75 ms

Below is generated by plot.py at 2018-01-02 05:03:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.08 Mbit/s

95th percentile per-packet one-way delay: 31.564 ms

Loss rate: 0.00%

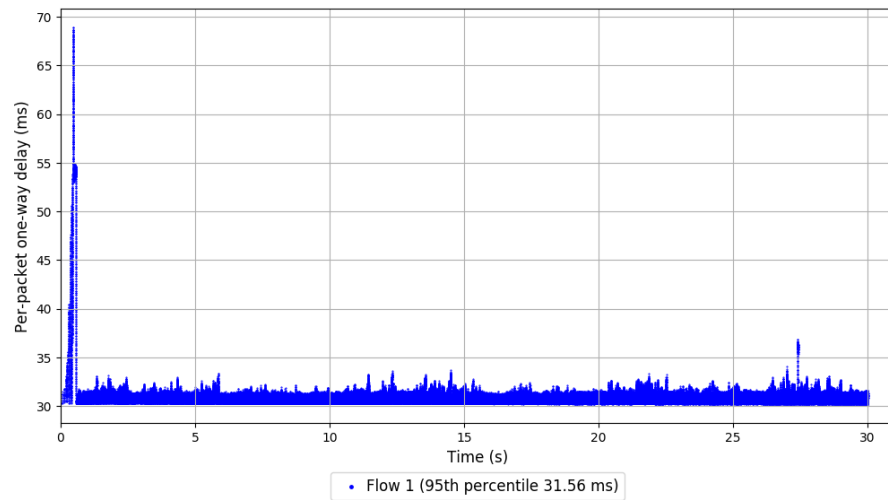
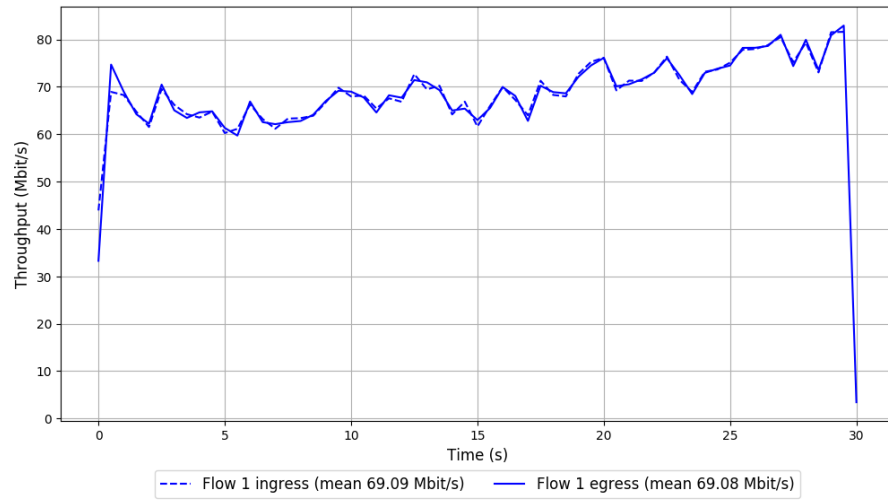
-- Flow 1:

Average throughput: 69.08 Mbit/s

95th percentile per-packet one-way delay: 31.564 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link

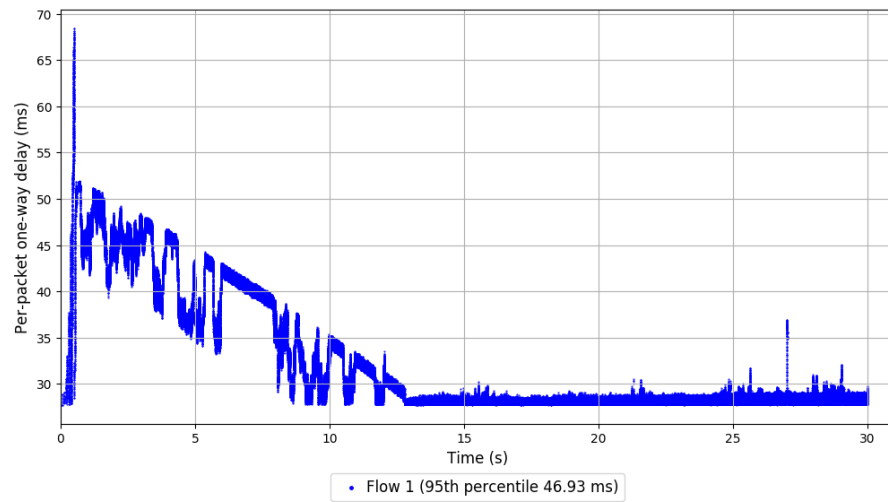
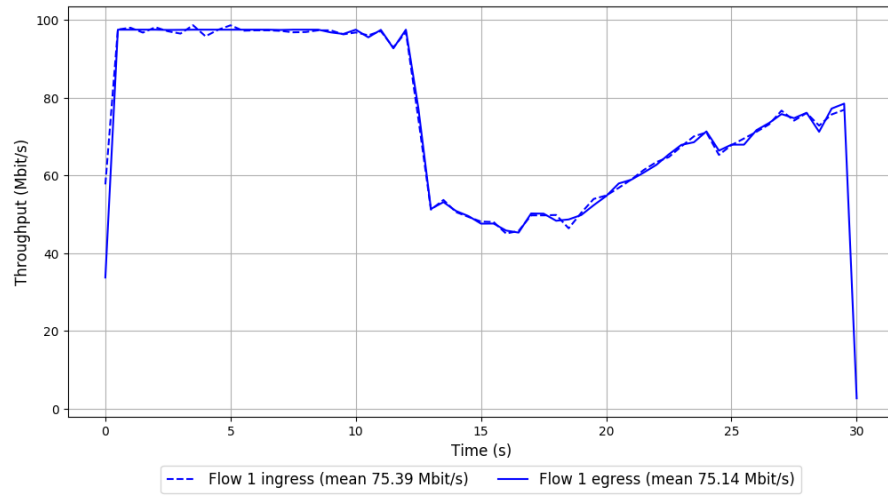


Run 3: Statistics of TCP Vegas

Start at: 2018-01-02 01:59:05
End at: 2018-01-02 01:59:35
Local clock offset: -7.463 ms
Remote clock offset: -2.461 ms

Below is generated by plot.py at 2018-01-02 05:03:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.14 Mbit/s
95th percentile per-packet one-way delay: 46.932 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 75.14 Mbit/s
95th percentile per-packet one-way delay: 46.932 ms
Loss rate: 0.34%

Run 3: Report of TCP Vegas — Data Link

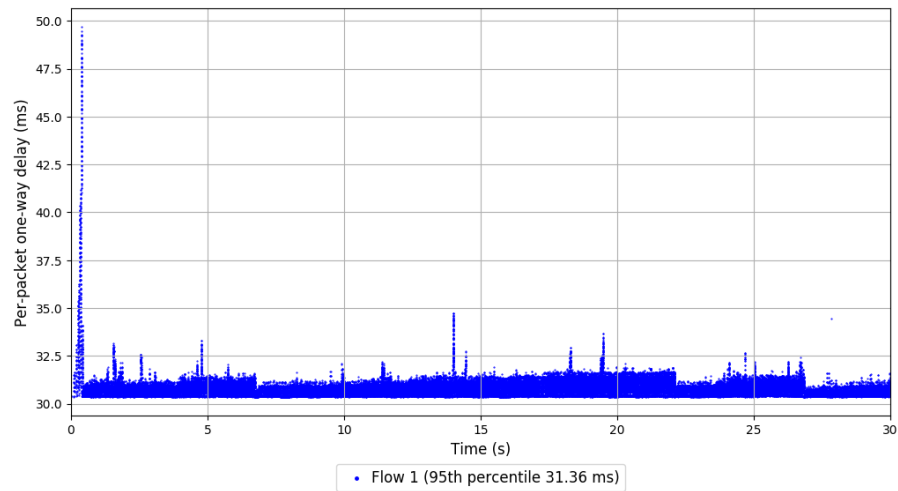
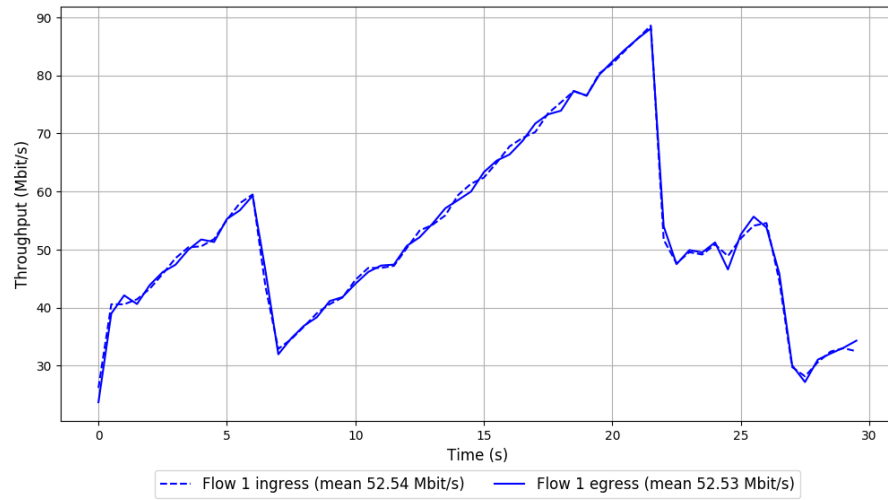


Run 4: Statistics of TCP Vegas

Start at: 2018-01-02 02:21:20
End at: 2018-01-02 02:21:50
Local clock offset: -8.707 ms
Remote clock offset: -1.199 ms

Below is generated by plot.py at 2018-01-02 05:03:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 52.53 Mbit/s
95th percentile per-packet one-way delay: 31.365 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 52.53 Mbit/s
95th percentile per-packet one-way delay: 31.365 ms
Loss rate: 0.02%

Run 4: Report of TCP Vegas — Data Link

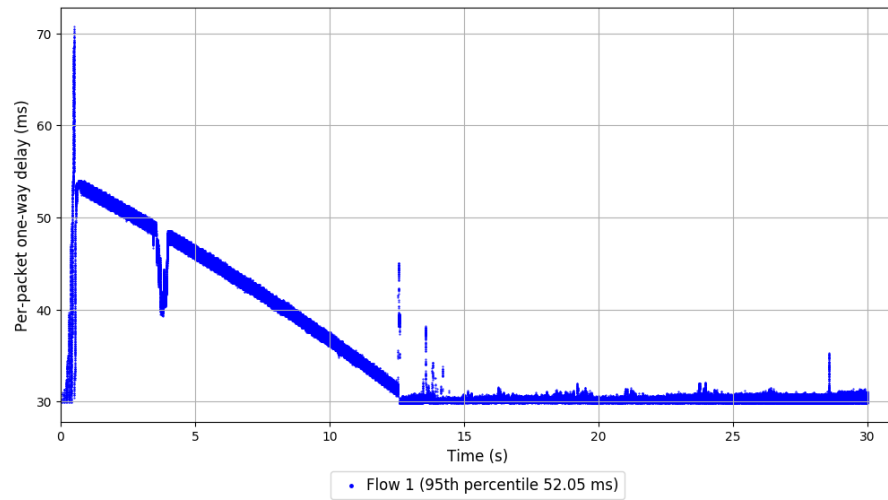
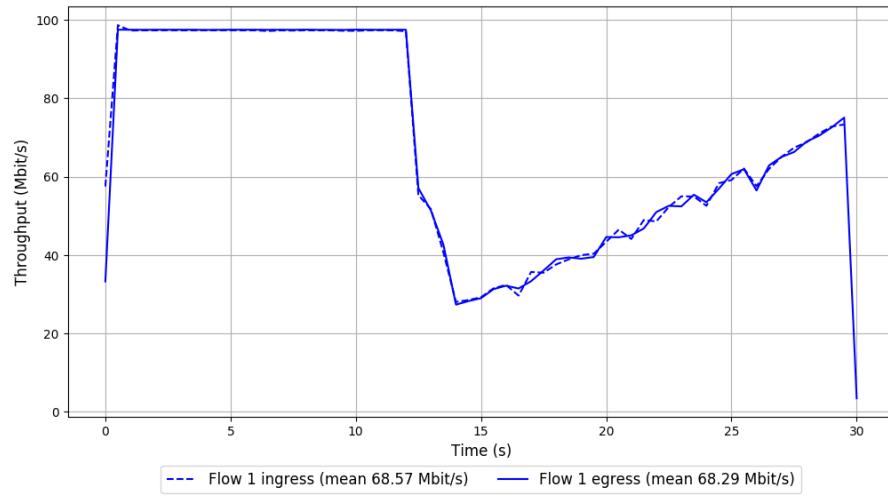


Run 5: Statistics of TCP Vegas

Start at: 2018-01-02 02:42:40
End at: 2018-01-02 02:43:10
Local clock offset: -8.821 ms
Remote clock offset: -1.407 ms

Below is generated by plot.py at 2018-01-02 05:03:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 68.29 Mbit/s
95th percentile per-packet one-way delay: 52.049 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 68.29 Mbit/s
95th percentile per-packet one-way delay: 52.049 ms
Loss rate: 0.40%

Run 5: Report of TCP Vegas — Data Link

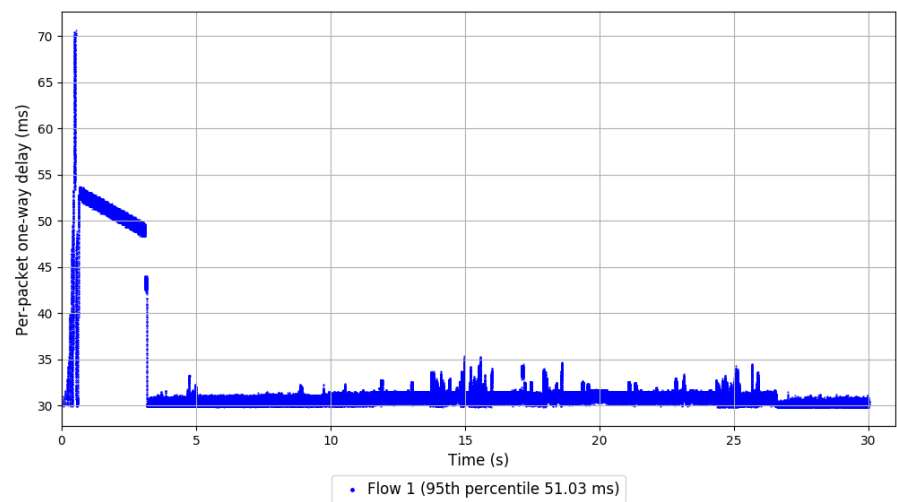
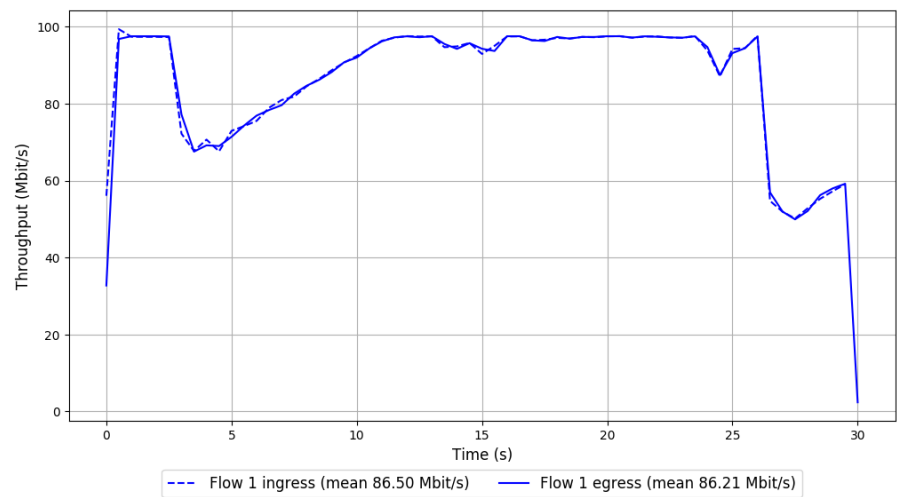


Run 6: Statistics of TCP Vegas

Start at: 2018-01-02 03:03:09
End at: 2018-01-02 03:03:39
Local clock offset: -10.692 ms
Remote clock offset: -0.383 ms

Below is generated by plot.py at 2018-01-02 05:03:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.21 Mbit/s
95th percentile per-packet one-way delay: 51.027 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 86.21 Mbit/s
95th percentile per-packet one-way delay: 51.027 ms
Loss rate: 0.33%

Run 6: Report of TCP Vegas — Data Link

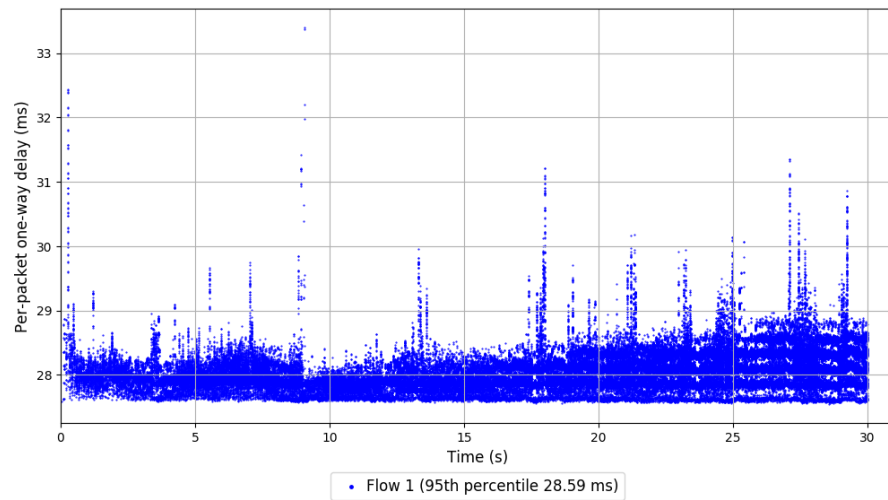
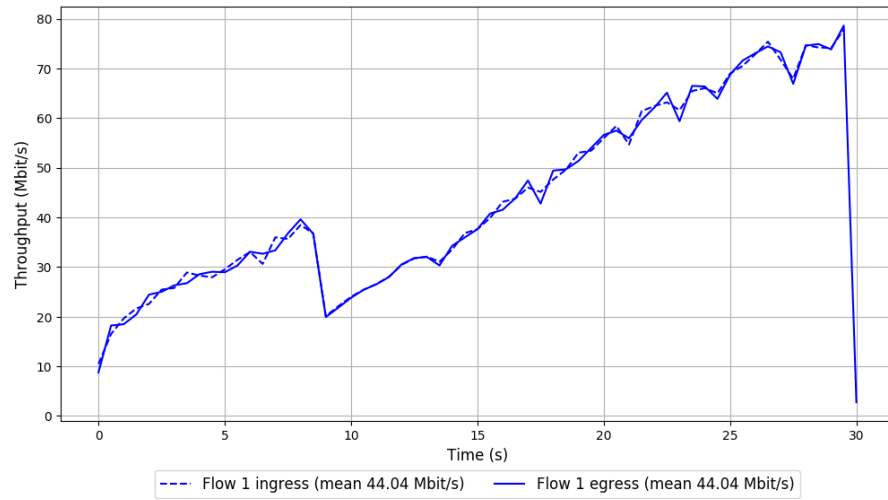


Run 7: Statistics of TCP Vegas

Start at: 2018-01-02 03:24:14
End at: 2018-01-02 03:24:44
Local clock offset: -12.31 ms
Remote clock offset: -1.438 ms

Below is generated by plot.py at 2018-01-02 05:03:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 44.04 Mbit/s
95th percentile per-packet one-way delay: 28.589 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 44.04 Mbit/s
95th percentile per-packet one-way delay: 28.589 ms
Loss rate: 0.01%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-02 03:45:06

End at: 2018-01-02 03:45:36

Local clock offset: -13.39 ms

Remote clock offset: 1.11 ms

Below is generated by plot.py at 2018-01-02 05:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.66 Mbit/s

95th percentile per-packet one-way delay: 52.545 ms

Loss rate: 0.00%

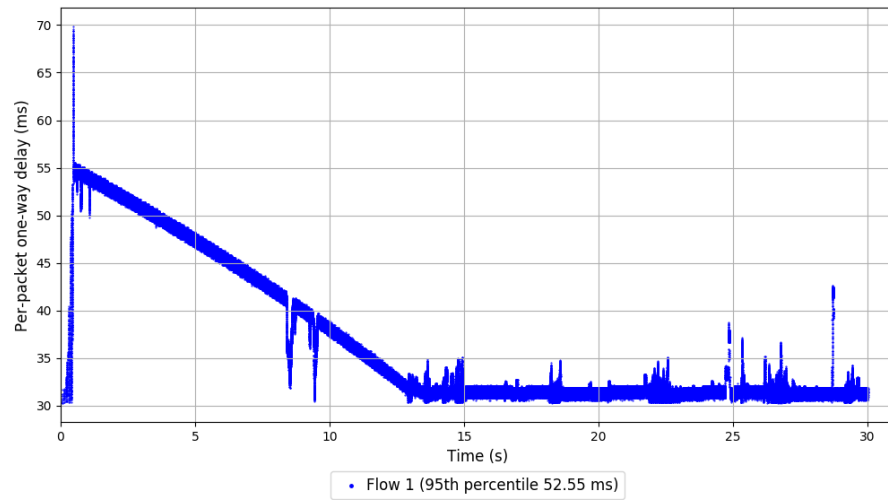
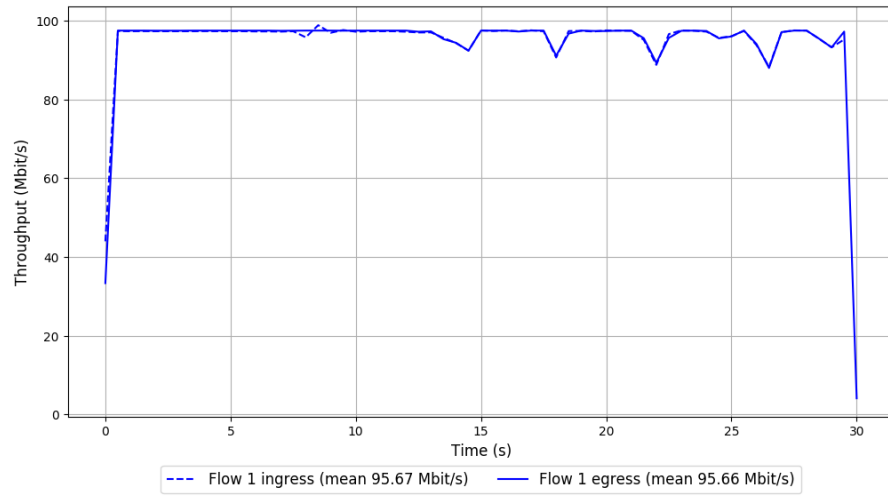
-- Flow 1:

Average throughput: 95.66 Mbit/s

95th percentile per-packet one-way delay: 52.545 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link

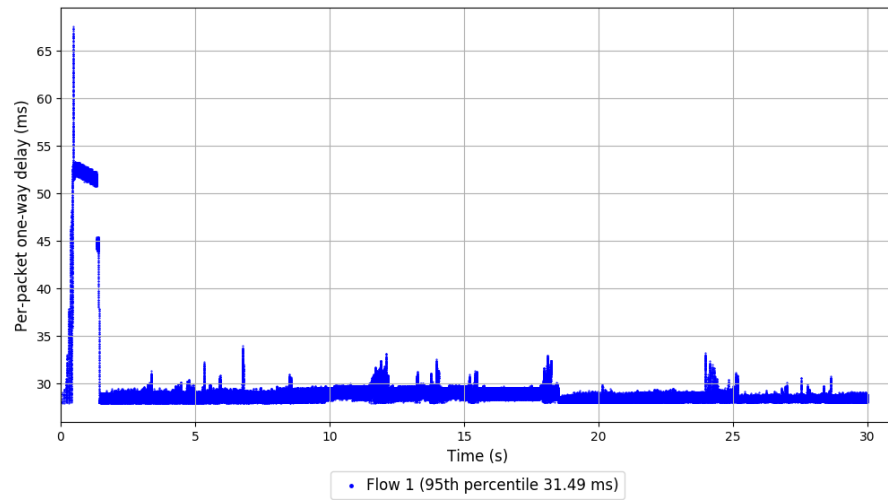
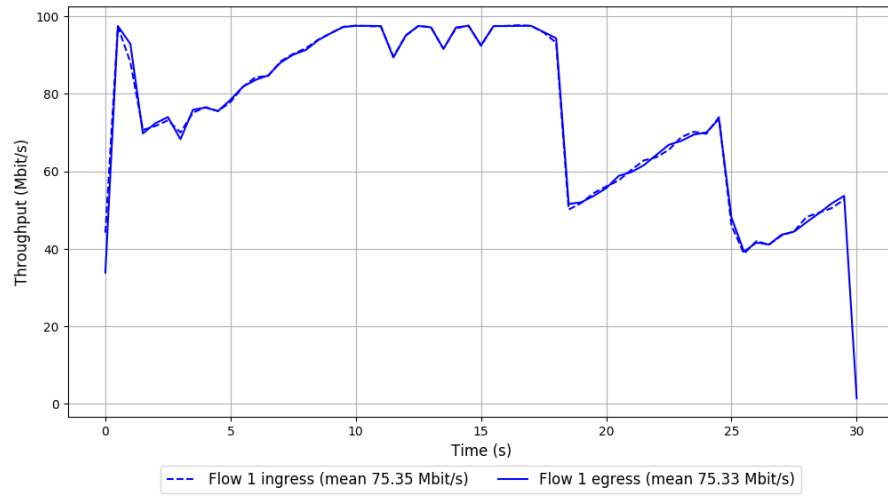


Run 9: Statistics of TCP Vegas

Start at: 2018-01-02 04:06:49
End at: 2018-01-02 04:07:20
Local clock offset: -12.265 ms
Remote clock offset: -1.853 ms

Below is generated by plot.py at 2018-01-02 05:04:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.33 Mbit/s
95th percentile per-packet one-way delay: 31.493 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 75.33 Mbit/s
95th percentile per-packet one-way delay: 31.493 ms
Loss rate: 0.03%

Run 9: Report of TCP Vegas — Data Link

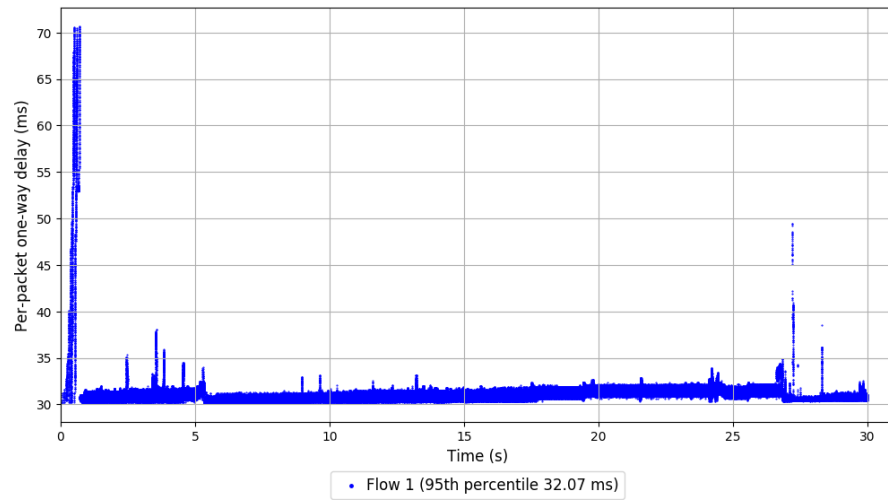
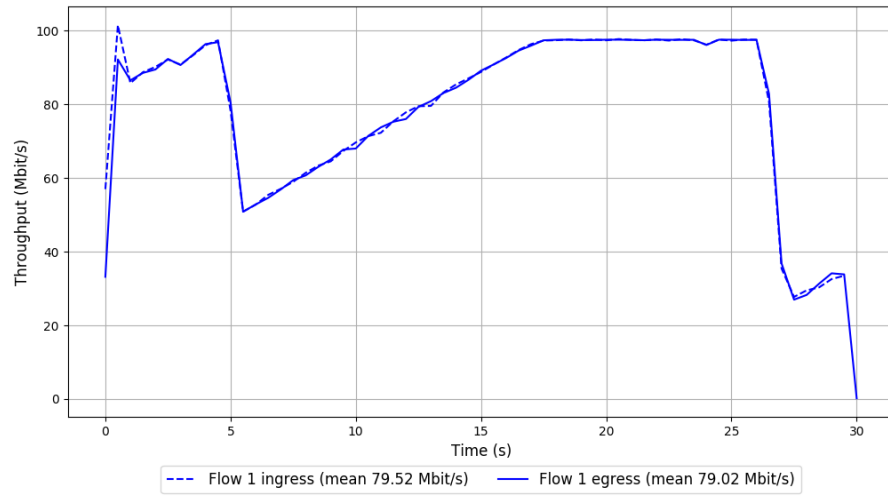


Run 10: Statistics of TCP Vegas

Start at: 2018-01-02 04:27:24
End at: 2018-01-02 04:27:54
Local clock offset: -10.173 ms
Remote clock offset: -0.543 ms

Below is generated by plot.py at 2018-01-02 05:04:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.02 Mbit/s
95th percentile per-packet one-way delay: 32.072 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 79.02 Mbit/s
95th percentile per-packet one-way delay: 32.072 ms
Loss rate: 0.62%

Run 10: Report of TCP Vegas — Data Link

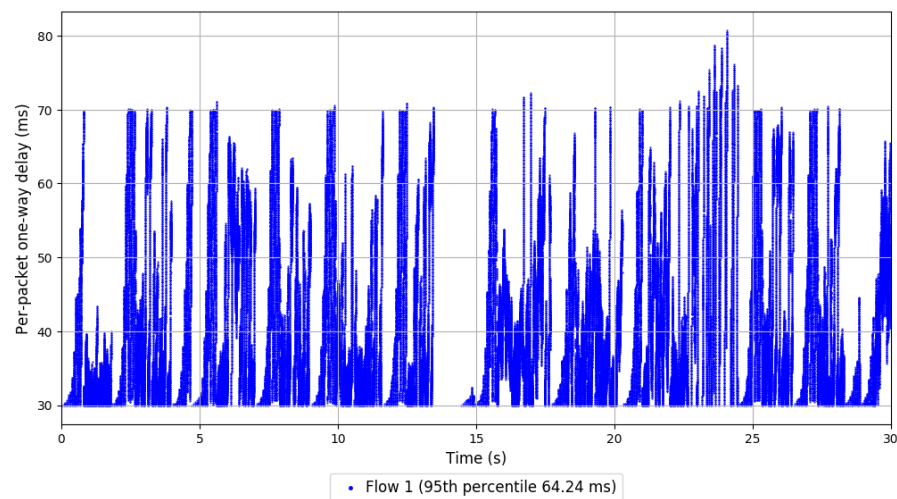
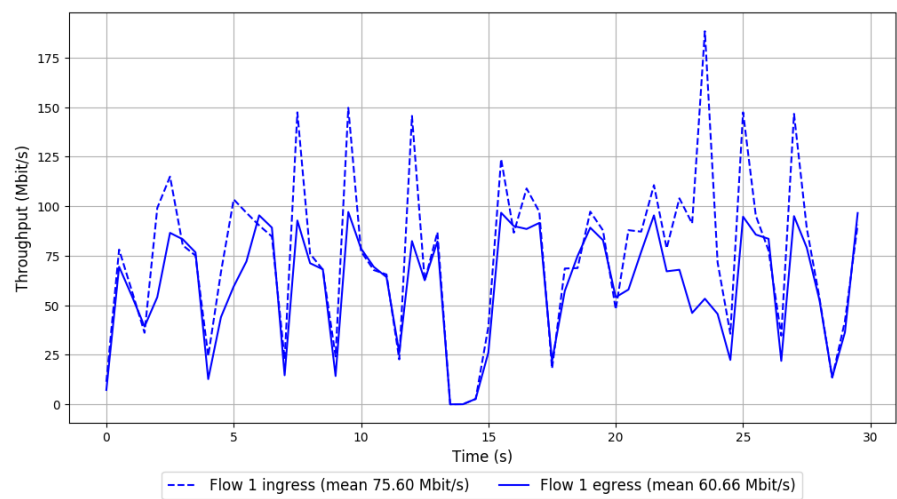


```
Run 1: Statistics of Verus

Start at: 2018-01-02 01:11:34
End at: 2018-01-02 01:12:04
Local clock offset: 1.378 ms
Remote clock offset: 0.065 ms

# Below is generated by plot.py at 2018-01-02 05:04:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.66 Mbit/s
95th percentile per-packet one-way delay: 64.238 ms
Loss rate: 19.70%
-- Flow 1:
Average throughput: 60.66 Mbit/s
95th percentile per-packet one-way delay: 64.238 ms
Loss rate: 19.70%
```

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-02 01:34:13

End at: 2018-01-02 01:34:43

Local clock offset: -3.381 ms

Remote clock offset: 0.627 ms

Below is generated by plot.py at 2018-01-02 05:04:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.58 Mbit/s

95th percentile per-packet one-way delay: 64.978 ms

Loss rate: 20.85%

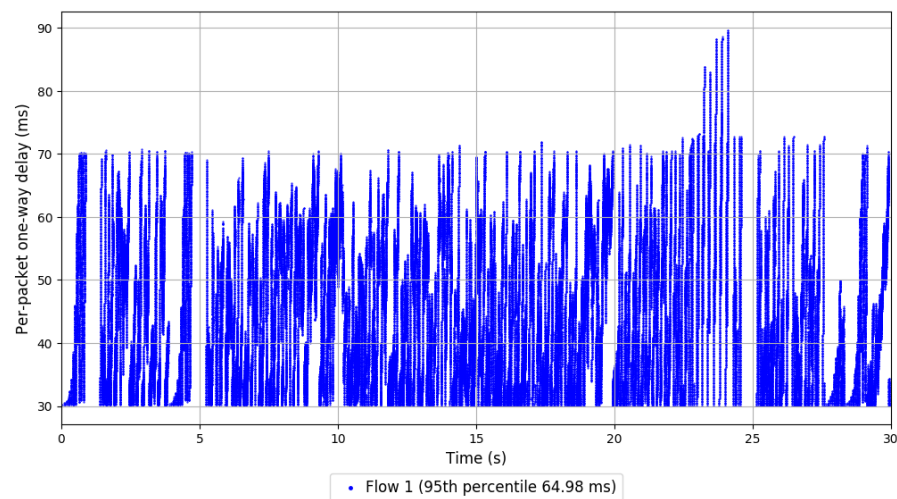
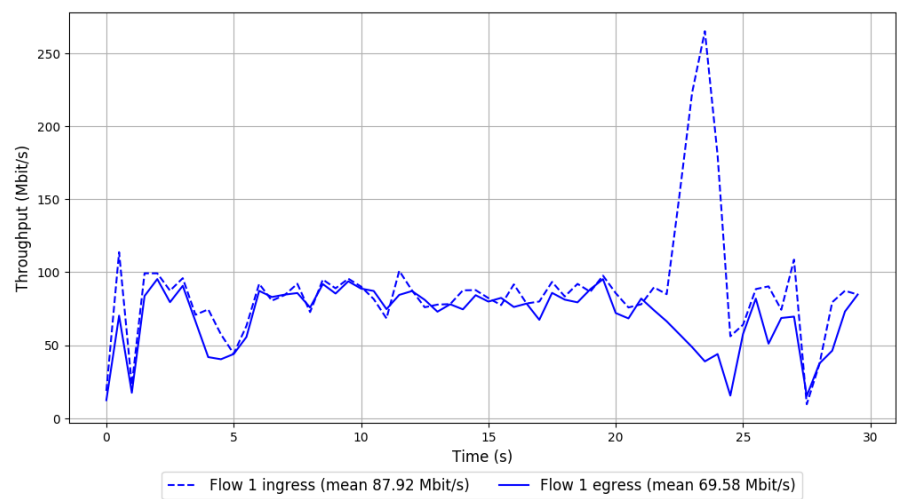
-- Flow 1:

Average throughput: 69.58 Mbit/s

95th percentile per-packet one-way delay: 64.978 ms

Loss rate: 20.85%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-02 01:57:35

End at: 2018-01-02 01:58:05

Local clock offset: -7.48 ms

Remote clock offset: 0.115 ms

Below is generated by plot.py at 2018-01-02 05:04:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.60 Mbit/s

95th percentile per-packet one-way delay: 67.425 ms

Loss rate: 38.91%

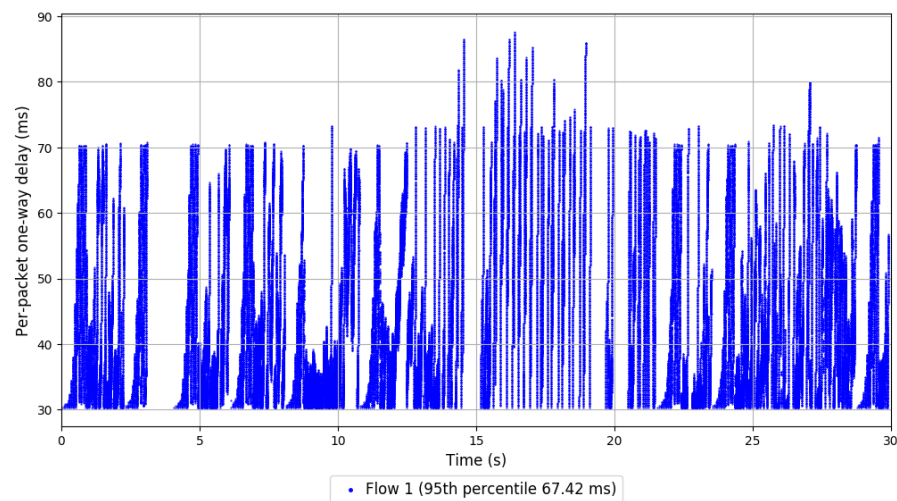
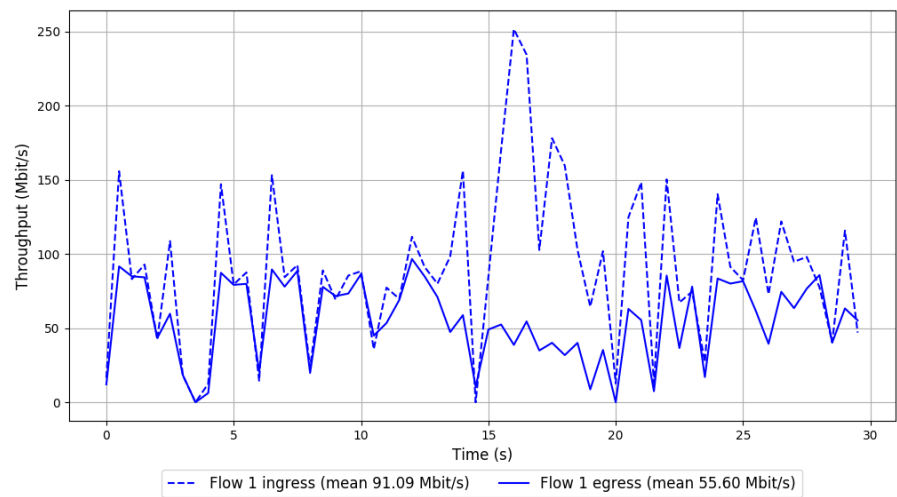
-- Flow 1:

Average throughput: 55.60 Mbit/s

95th percentile per-packet one-way delay: 67.425 ms

Loss rate: 38.91%

Run 3: Report of Verus — Data Link

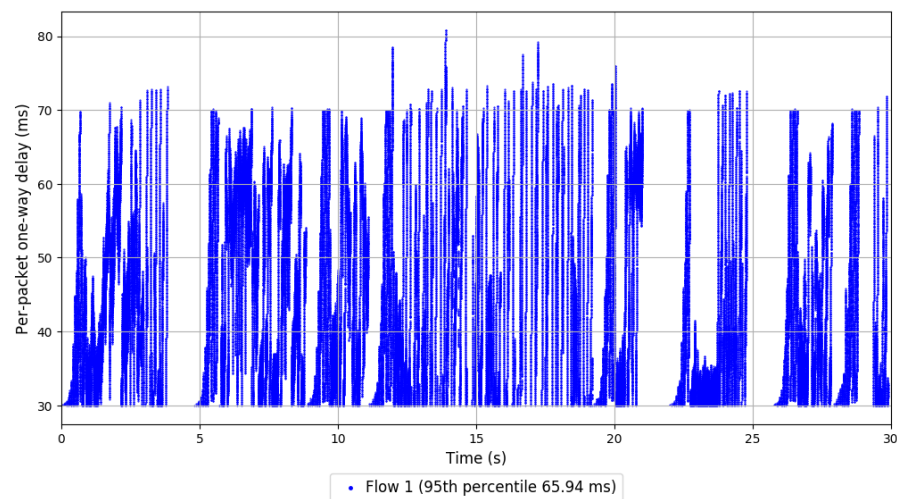
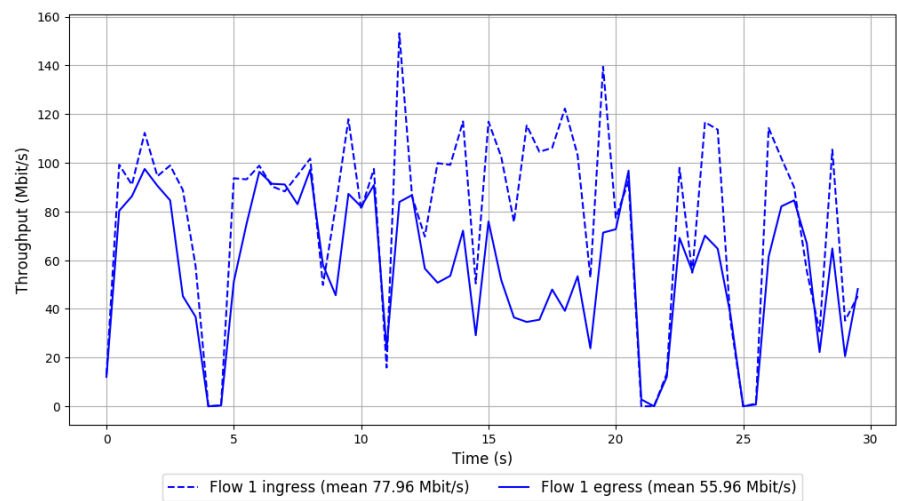


Run 4: Statistics of Verus

Start at: 2018-01-02 02:19:50
End at: 2018-01-02 02:20:20
Local clock offset: -8.696 ms
Remote clock offset: -1.529 ms

Below is generated by plot.py at 2018-01-02 05:04:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 55.96 Mbit/s
95th percentile per-packet one-way delay: 65.935 ms
Loss rate: 28.21%
-- Flow 1:
Average throughput: 55.96 Mbit/s
95th percentile per-packet one-way delay: 65.935 ms
Loss rate: 28.21%

Run 4: Report of Verus — Data Link

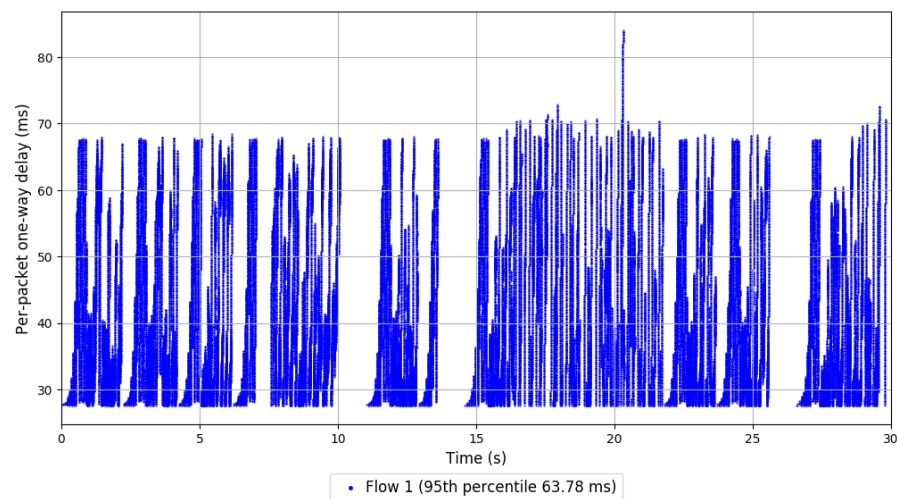
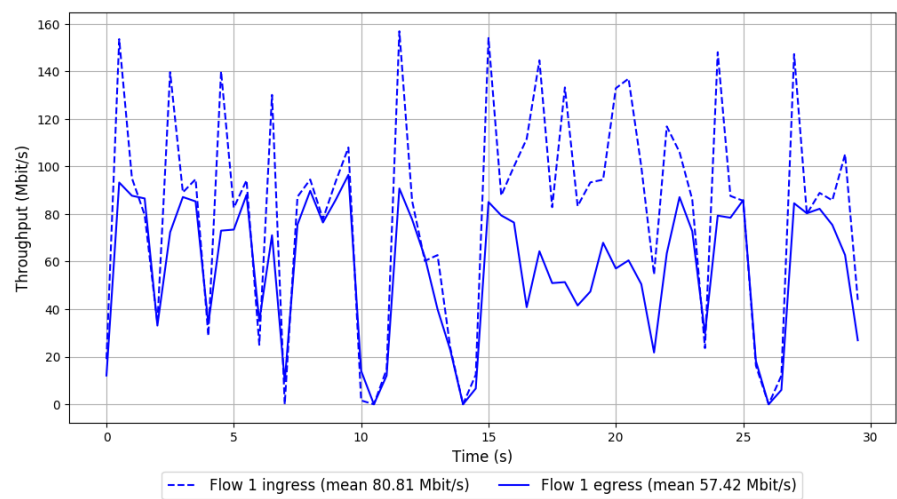


Run 5: Statistics of Verus

Start at: 2018-01-02 02:41:13
End at: 2018-01-02 02:41:43
Local clock offset: -8.713 ms
Remote clock offset: -3.725 ms

Below is generated by plot.py at 2018-01-02 05:04:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 57.42 Mbit/s
95th percentile per-packet one-way delay: 63.784 ms
Loss rate: 29.16%
-- Flow 1:
Average throughput: 57.42 Mbit/s
95th percentile per-packet one-way delay: 63.784 ms
Loss rate: 29.16%

Run 5: Report of Verus — Data Link

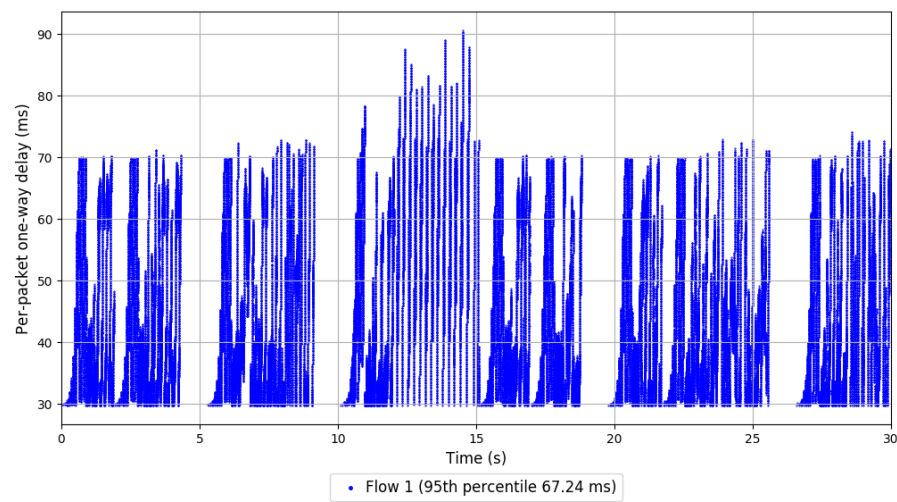
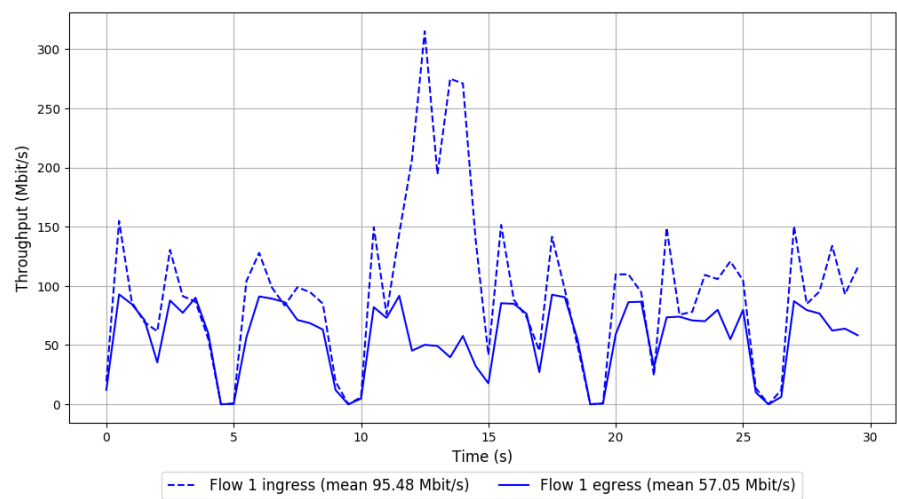


Run 6: Statistics of Verus

Start at: 2018-01-02 03:01:48
End at: 2018-01-02 03:02:18
Local clock offset: -10.481 ms
Remote clock offset: -0.435 ms

Below is generated by plot.py at 2018-01-02 05:05:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 57.05 Mbit/s
95th percentile per-packet one-way delay: 67.239 ms
Loss rate: 40.22%
-- Flow 1:
Average throughput: 57.05 Mbit/s
95th percentile per-packet one-way delay: 67.239 ms
Loss rate: 40.22%

Run 6: Report of Verus — Data Link

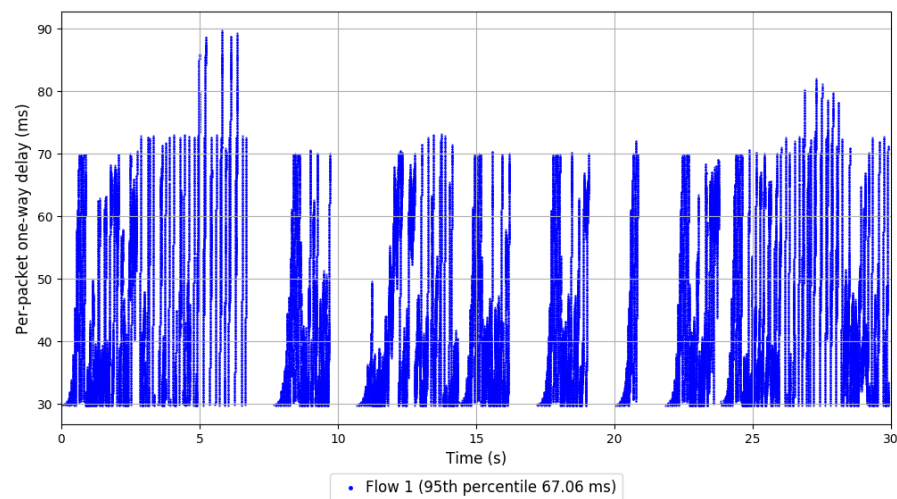
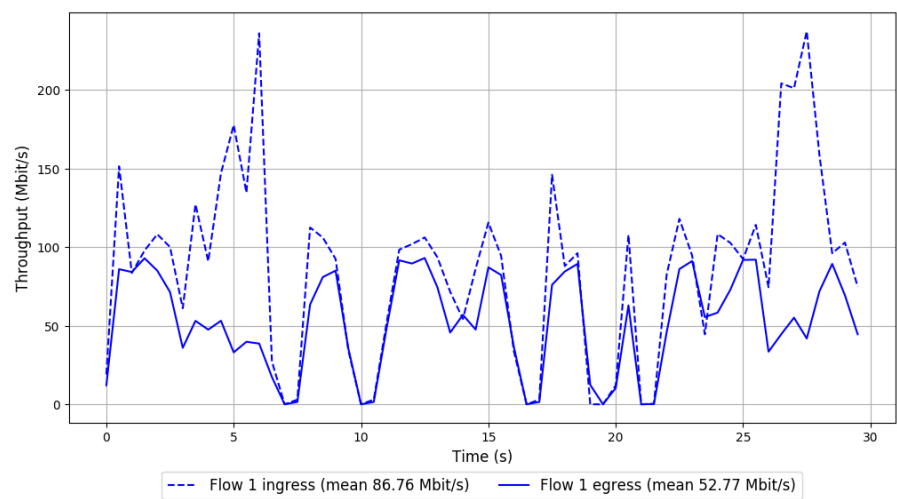


Run 7: Statistics of Verus

Start at: 2018-01-02 03:22:47
End at: 2018-01-02 03:23:17
Local clock offset: -12.273 ms
Remote clock offset: 0.667 ms

Below is generated by plot.py at 2018-01-02 05:05:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 52.77 Mbit/s
95th percentile per-packet one-way delay: 67.063 ms
Loss rate: 39.17%
-- Flow 1:
Average throughput: 52.77 Mbit/s
95th percentile per-packet one-way delay: 67.063 ms
Loss rate: 39.17%

Run 7: Report of Verus — Data Link

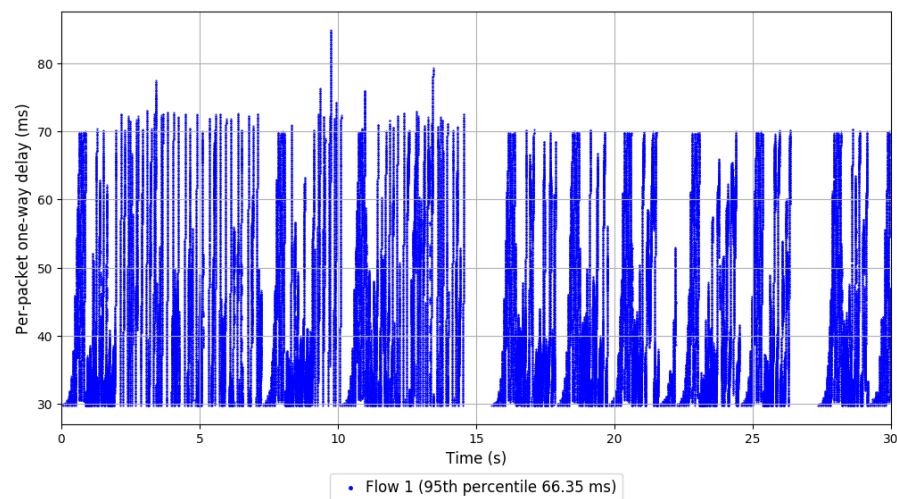
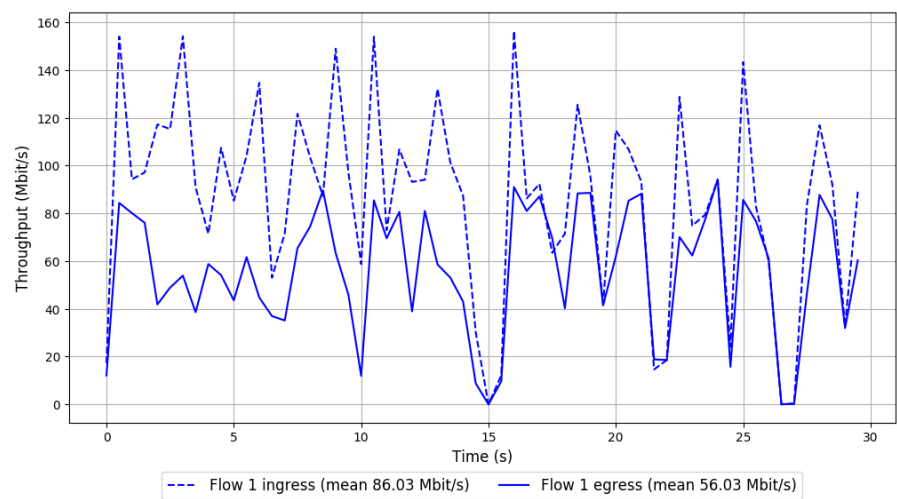


Run 8: Statistics of Verus

Start at: 2018-01-02 03:43:43
End at: 2018-01-02 03:44:13
Local clock offset: -13.317 ms
Remote clock offset: 0.689 ms

Below is generated by plot.py at 2018-01-02 05:05:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 56.03 Mbit/s
95th percentile per-packet one-way delay: 66.347 ms
Loss rate: 34.83%
-- Flow 1:
Average throughput: 56.03 Mbit/s
95th percentile per-packet one-way delay: 66.347 ms
Loss rate: 34.83%

Run 8: Report of Verus — Data Link

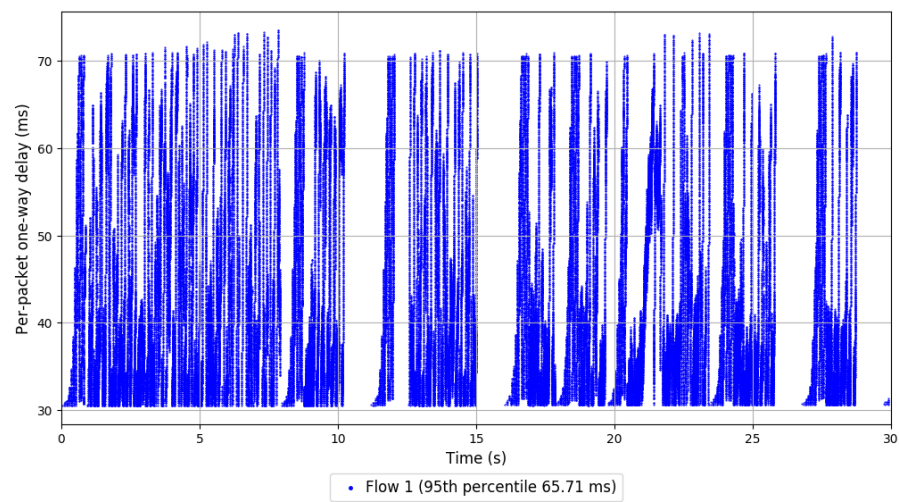
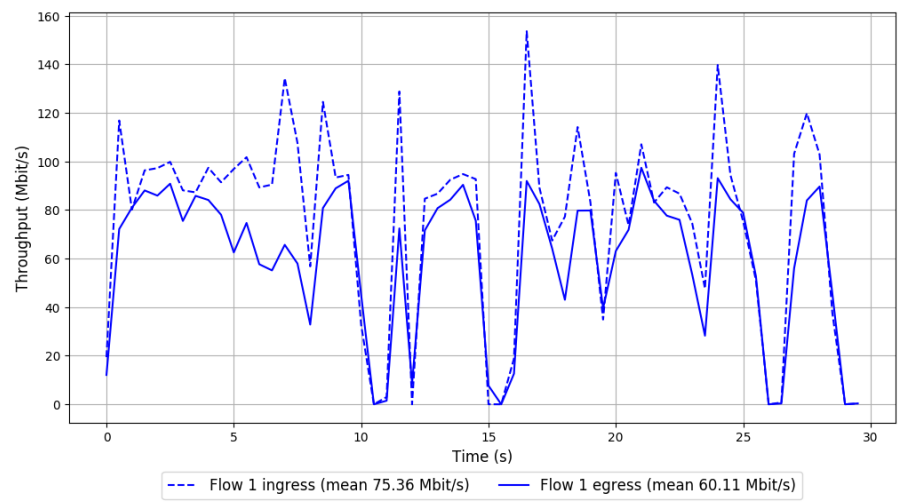


Run 9: Statistics of Verus

Start at: 2018-01-02 04:05:28
End at: 2018-01-02 04:05:58
Local clock offset: -12.507 ms
Remote clock offset: 0.756 ms

Below is generated by plot.py at 2018-01-02 05:05:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 60.11 Mbit/s
95th percentile per-packet one-way delay: 65.708 ms
Loss rate: 20.24%
-- Flow 1:
Average throughput: 60.11 Mbit/s
95th percentile per-packet one-way delay: 65.708 ms
Loss rate: 20.24%

Run 9: Report of Verus — Data Link

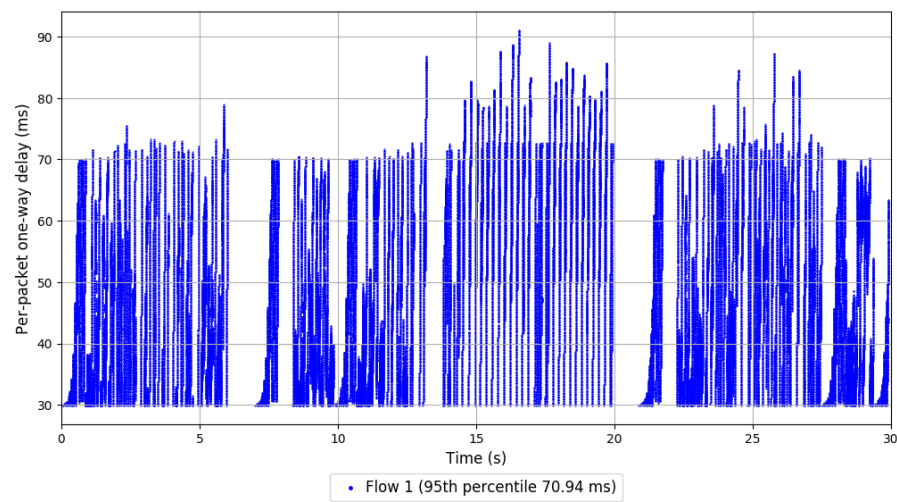
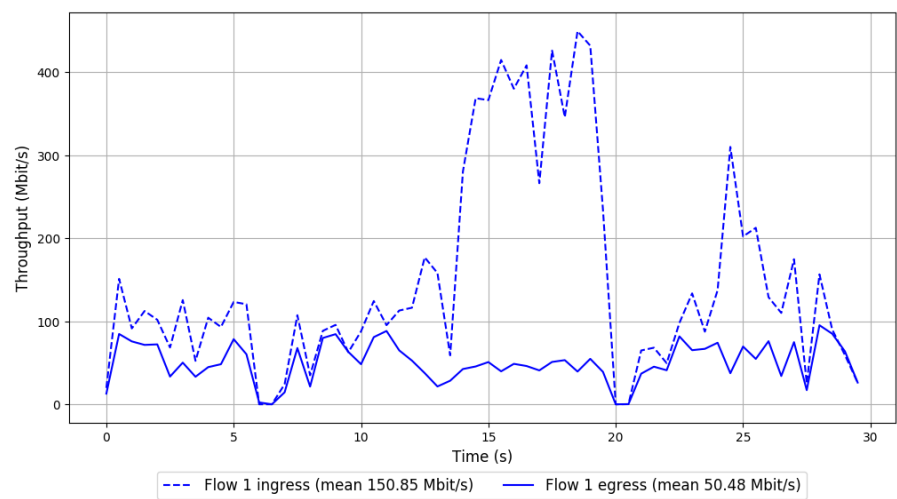


Run 10: Statistics of Verus

Start at: 2018-01-02 04:26:02
End at: 2018-01-02 04:26:32
Local clock offset: -10.348 ms
Remote clock offset: -0.554 ms

Below is generated by plot.py at 2018-01-02 05:05:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.48 Mbit/s
95th percentile per-packet one-way delay: 70.942 ms
Loss rate: 66.52%
-- Flow 1:
Average throughput: 50.48 Mbit/s
95th percentile per-packet one-way delay: 70.942 ms
Loss rate: 66.52%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

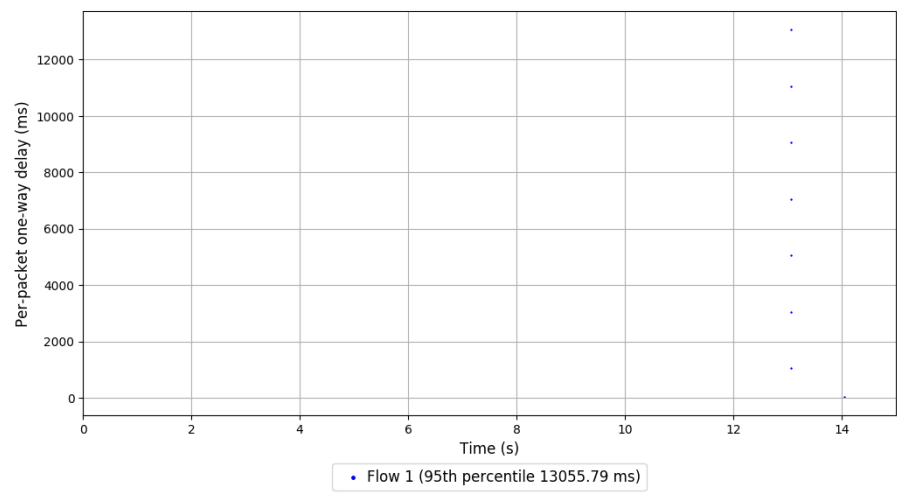
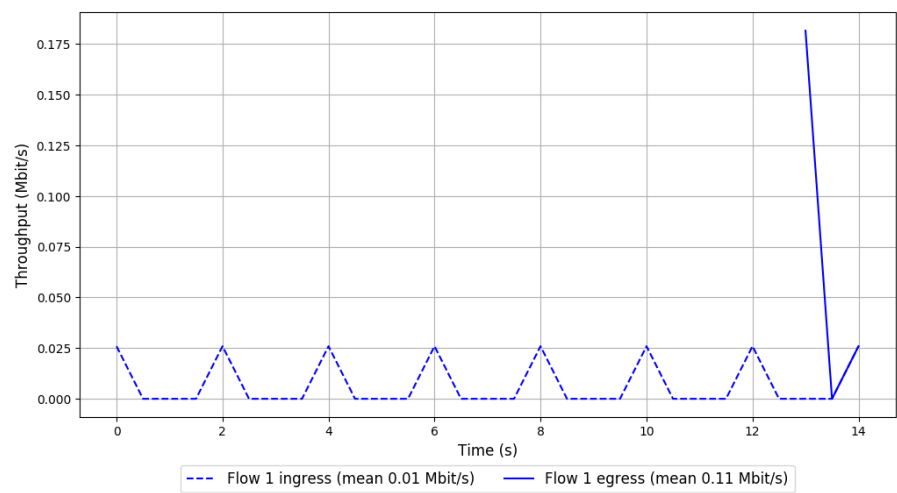
Start at: 2018-01-02 01:06:54

End at: 2018-01-02 01:07:24

Local clock offset: 0.732 ms

Remote clock offset: -2.152 ms

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

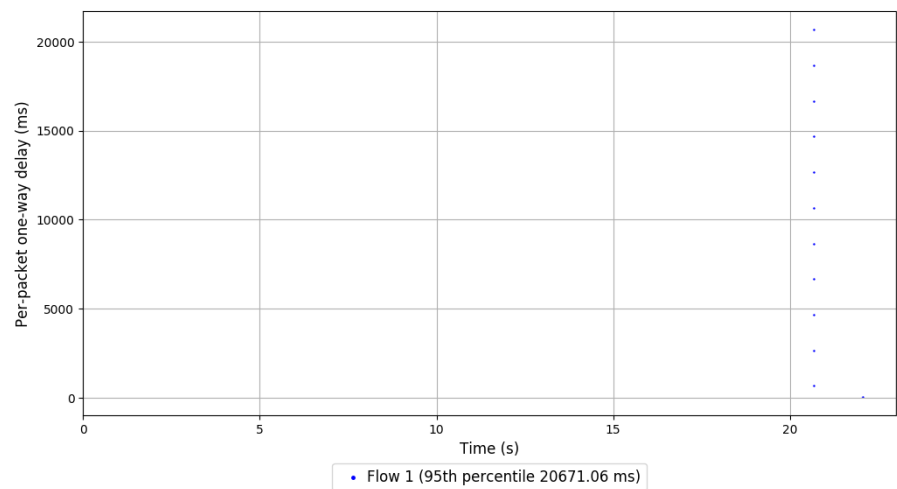
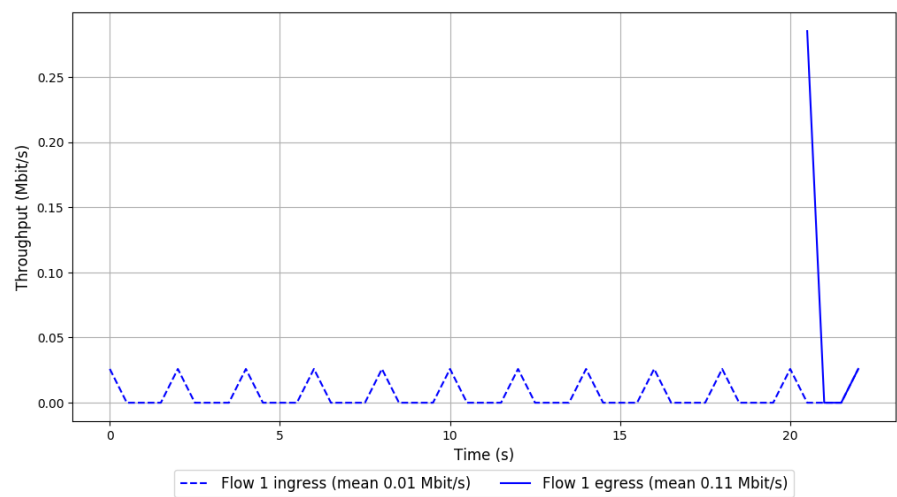
Start at: 2018-01-02 01:29:41

End at: 2018-01-02 01:30:11

Local clock offset: -2.544 ms

Remote clock offset: -1.906 ms

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

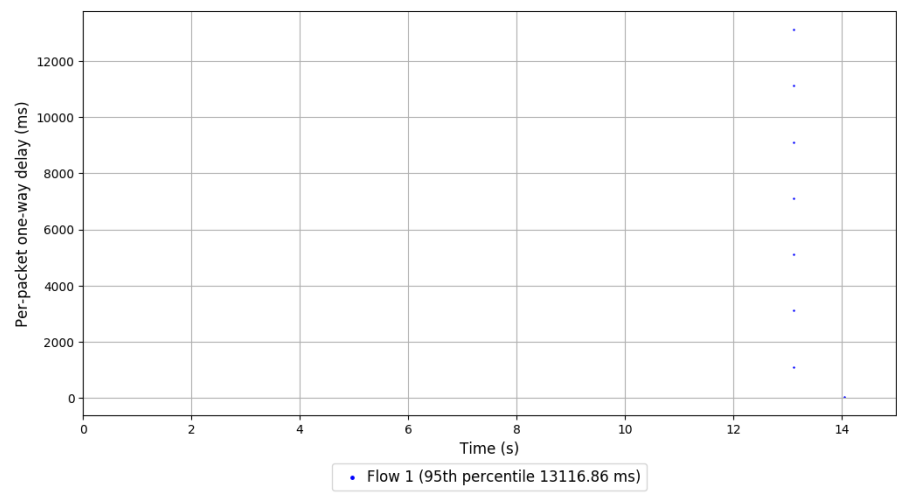
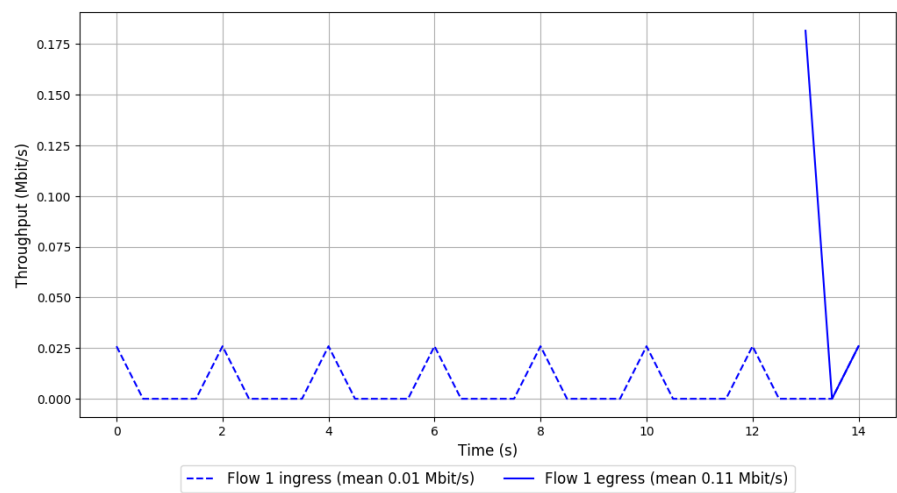
Start at: 2018-01-02 01:53:11

End at: 2018-01-02 01:53:41

Local clock offset: -7.097 ms

Remote clock offset: -2.208 ms

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

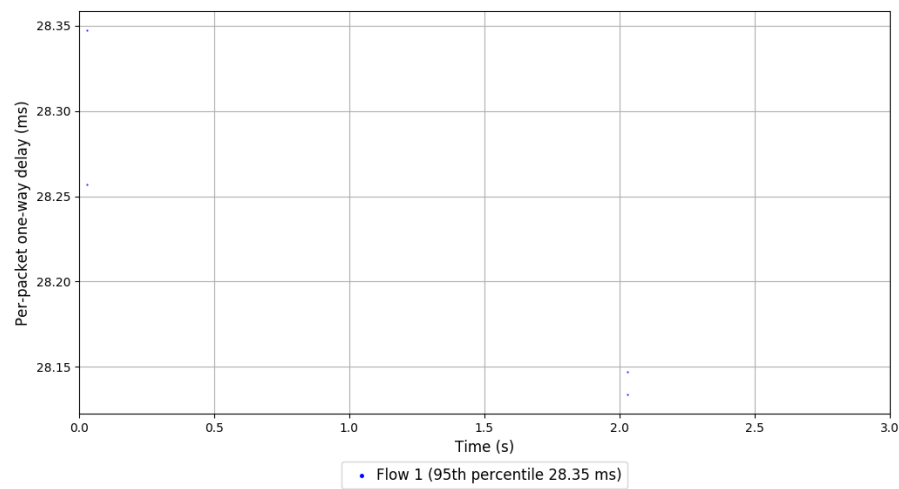
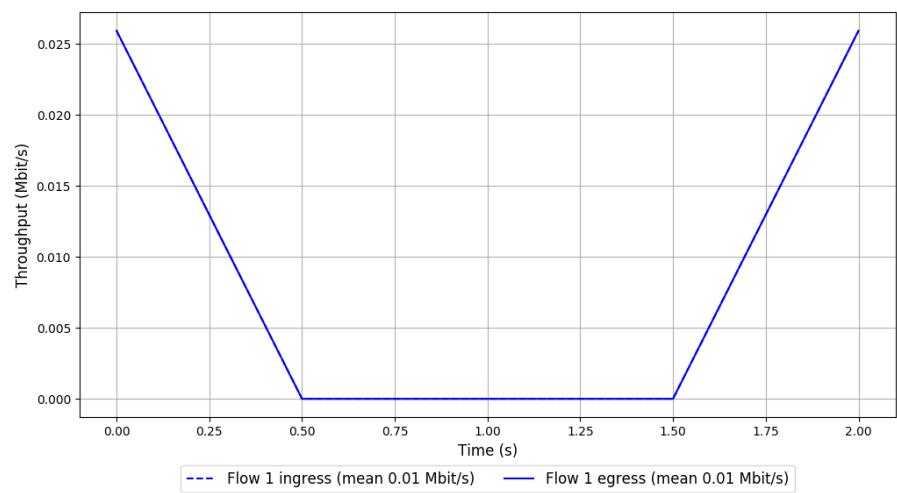
Start at: 2018-01-02 02:15:38

End at: 2018-01-02 02:16:08

Local clock offset: -8.521 ms

Remote clock offset: -3.299 ms

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-02 02:36:43

End at: 2018-01-02 02:37:13

Local clock offset: -8.511 ms

Remote clock offset: -3.84 ms

Below is generated by plot.py at 2018-01-02 05:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.63 Mbit/s

95th percentile per-packet one-way delay: 31.968 ms

Loss rate: 0.06%

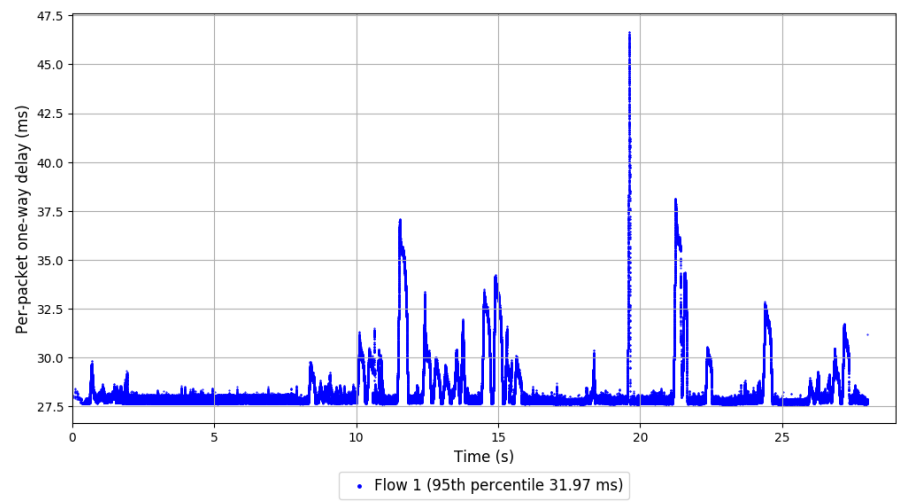
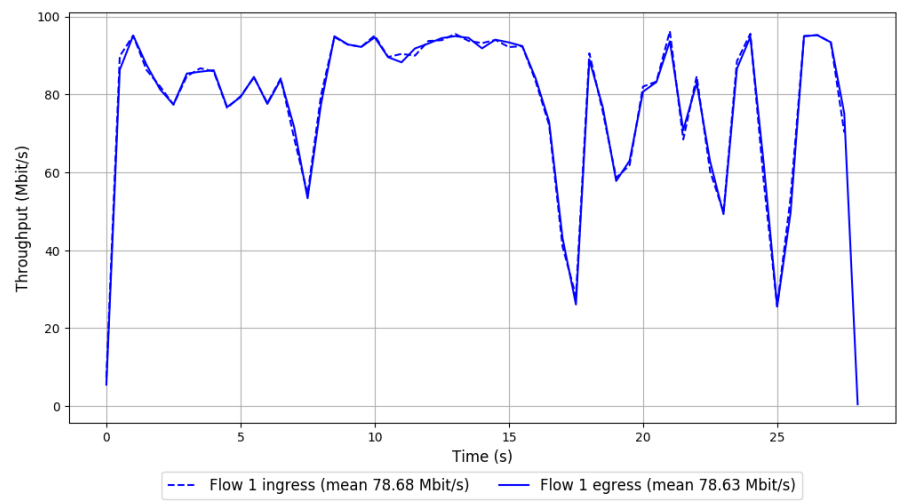
-- Flow 1:

Average throughput: 78.63 Mbit/s

95th percentile per-packet one-way delay: 31.968 ms

Loss rate: 0.06%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

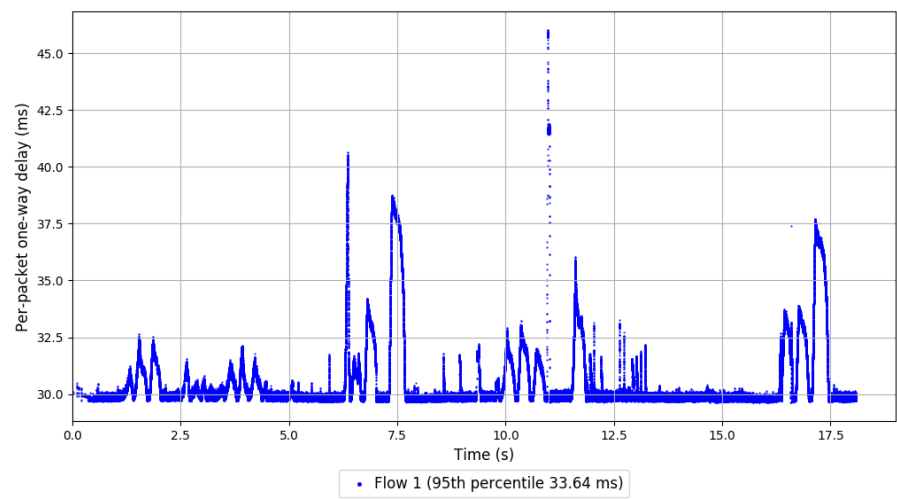
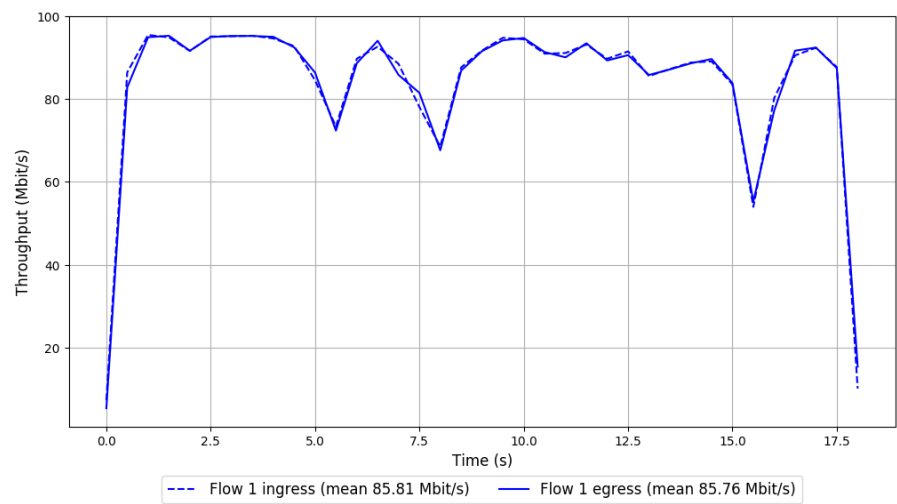
Start at: 2018-01-02 02:57:37

End at: 2018-01-02 02:58:07

Local clock offset: -10.09 ms

Remote clock offset: -0.774 ms

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-02 03:18:22

End at: 2018-01-02 03:18:52

Local clock offset: -11.88 ms

Remote clock offset: 0.57 ms

Below is generated by plot.py at 2018-01-02 05:07:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.21 Mbit/s

95th percentile per-packet one-way delay: 35.468 ms

Loss rate: 0.01%

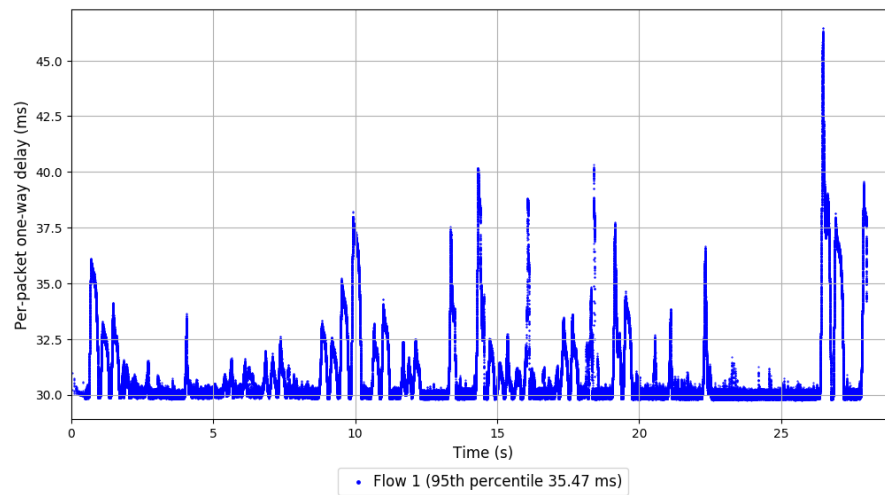
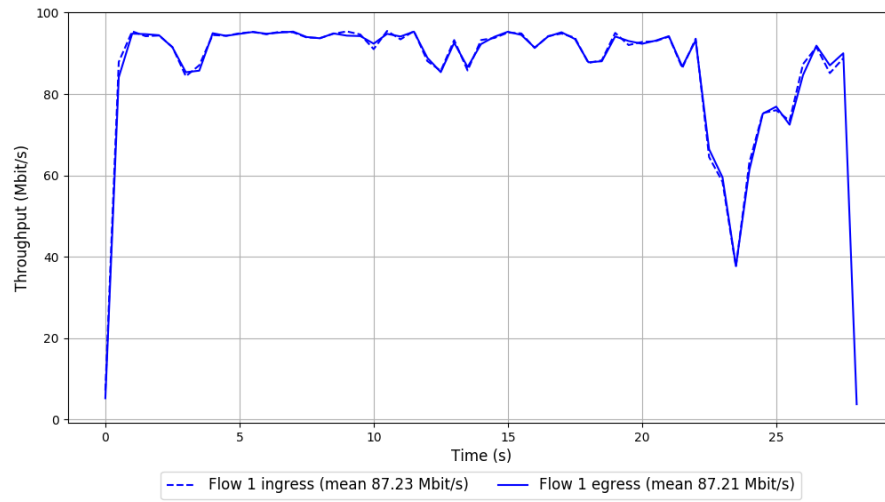
-- Flow 1:

Average throughput: 87.21 Mbit/s

95th percentile per-packet one-way delay: 35.468 ms

Loss rate: 0.01%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

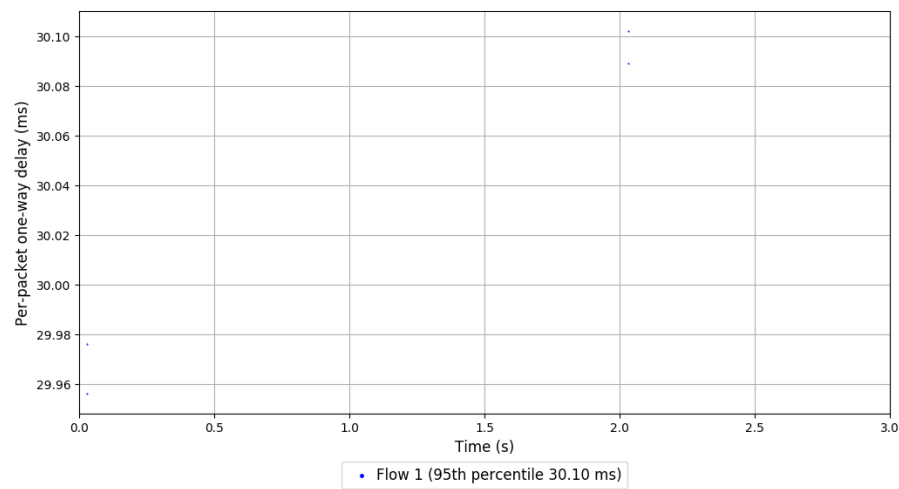
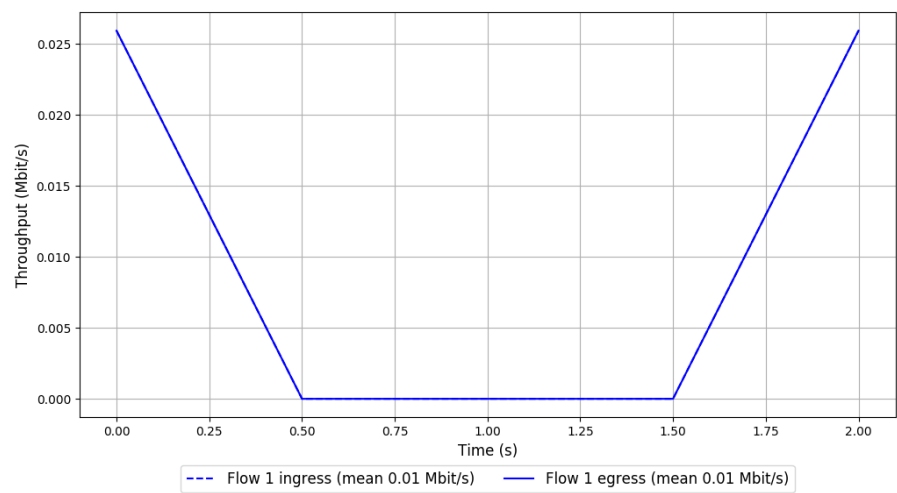
Start at: 2018-01-02 03:39:40

End at: 2018-01-02 03:40:10

Local clock offset: -13.058 ms

Remote clock offset: 0.798 ms

Run 8: Report of Copa — Data Link

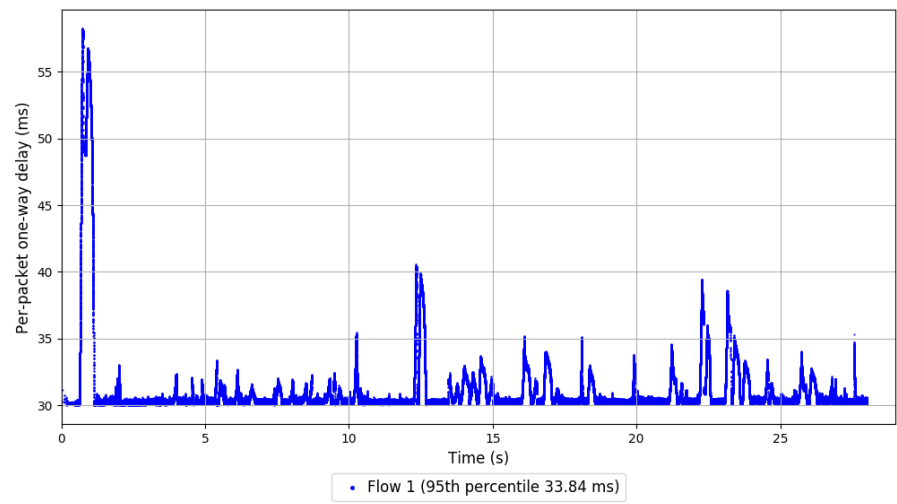
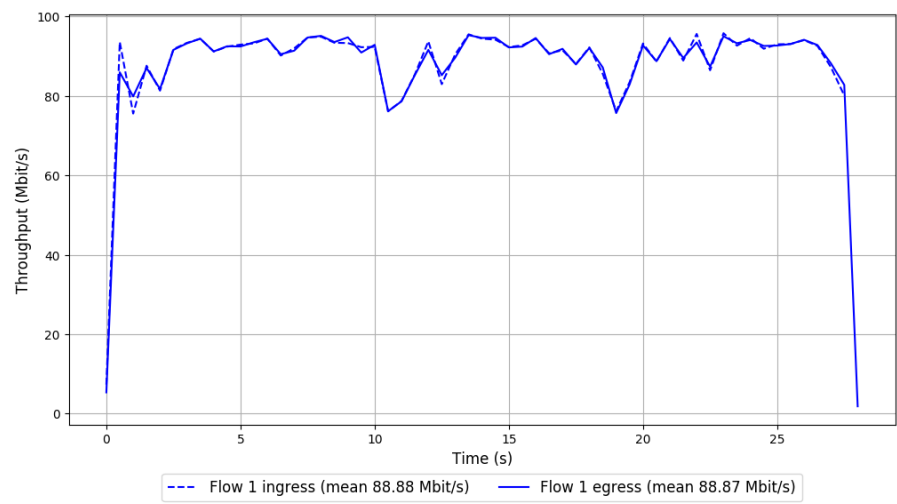


Run 9: Statistics of Copa

Start at: 2018-01-02 04:00:53
End at: 2018-01-02 04:01:23
Local clock offset: -13.158 ms
Remote clock offset: 0.462 ms

Below is generated by plot.py at 2018-01-02 05:07:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.87 Mbit/s
95th percentile per-packet one-way delay: 33.844 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 88.87 Mbit/s
95th percentile per-packet one-way delay: 33.844 ms
Loss rate: 0.02%

Run 9: Report of Copa — Data Link

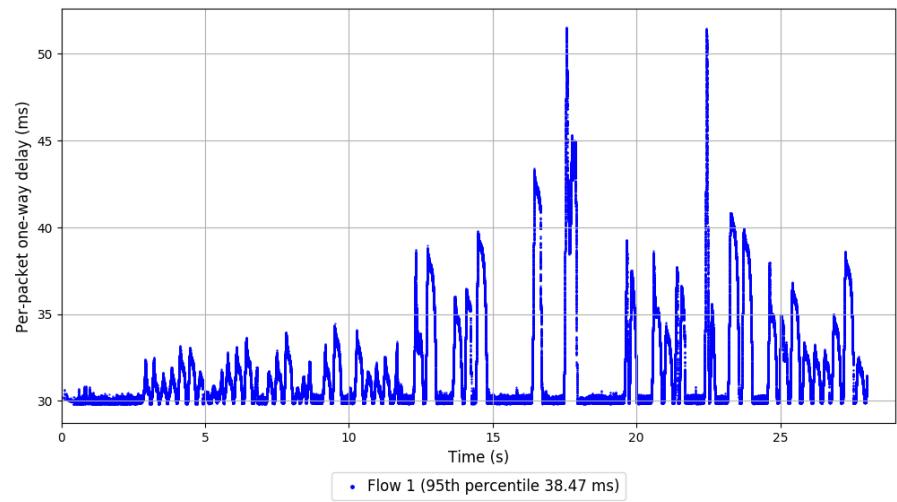
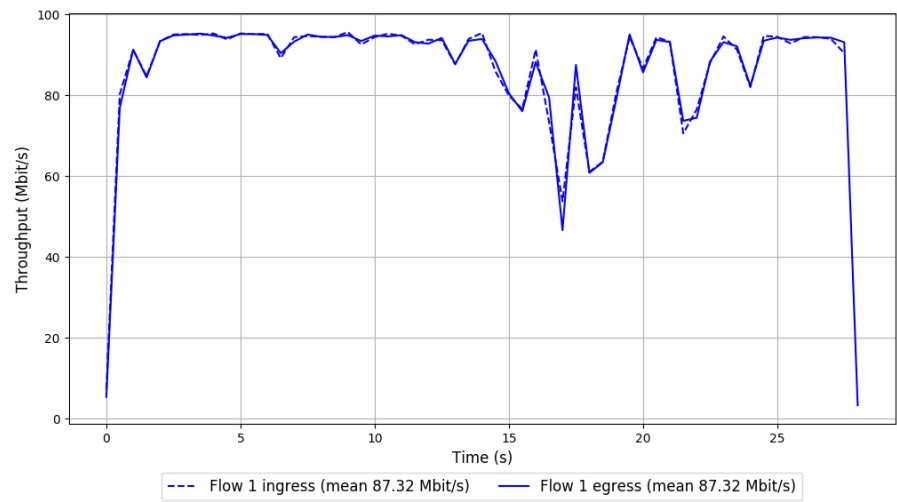


Run 10: Statistics of Copa

Start at: 2018-01-02 04:21:51
End at: 2018-01-02 04:22:21
Local clock offset: -10.4 ms
Remote clock offset: -0.382 ms

Below is generated by plot.py at 2018-01-02 05:07:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.32 Mbit/s
95th percentile per-packet one-way delay: 38.465 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 87.32 Mbit/s
95th percentile per-packet one-way delay: 38.465 ms
Loss rate: 0.00%

Run 10: Report of Copa — Data Link

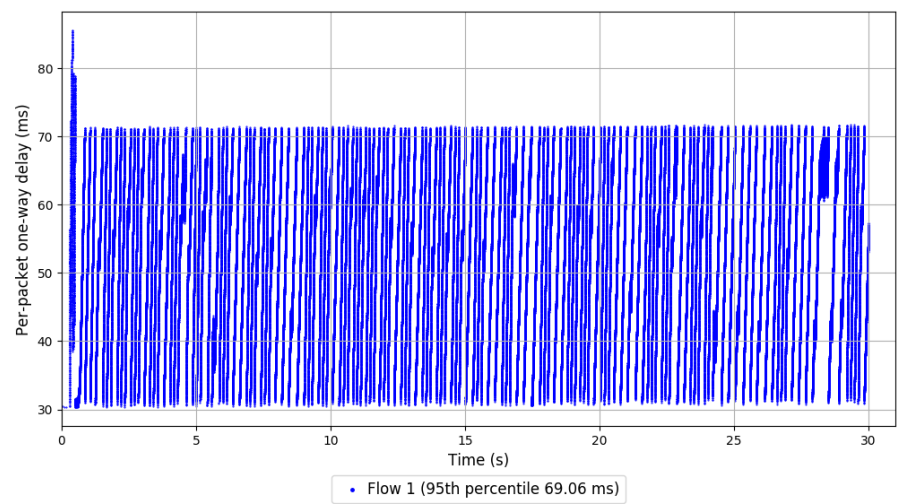
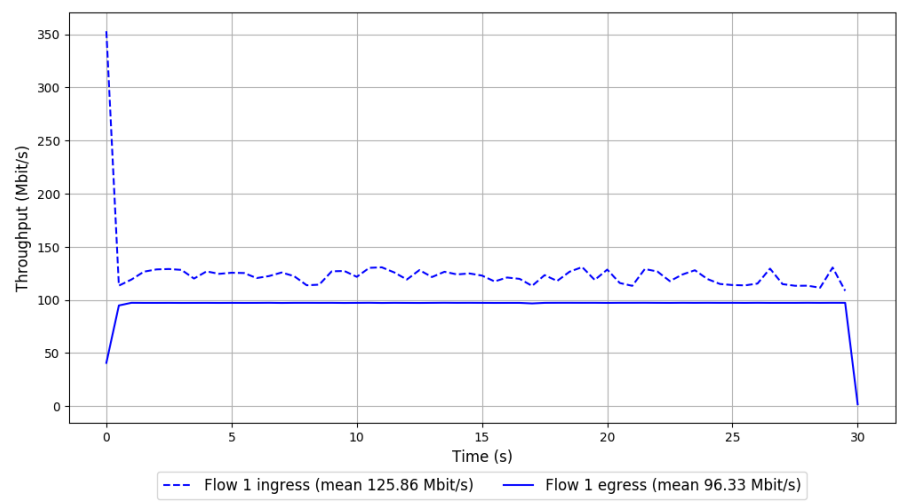


Run 1: Statistics of FillP

Start at: 2018-01-02 00:59:01
End at: 2018-01-02 00:59:31
Local clock offset: -3.418 ms
Remote clock offset: -0.202 ms

Below is generated by plot.py at 2018-01-02 05:07:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.33 Mbit/s
95th percentile per-packet one-way delay: 69.060 ms
Loss rate: 23.39%
-- Flow 1:
Average throughput: 96.33 Mbit/s
95th percentile per-packet one-way delay: 69.060 ms
Loss rate: 23.39%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-01-02 01:21:50

End at: 2018-01-02 01:22:20

Local clock offset: -0.97 ms

Remote clock offset: 0.169 ms

Below is generated by plot.py at 2018-01-02 05:07:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.31 Mbit/s

95th percentile per-packet one-way delay: 68.334 ms

Loss rate: 21.91%

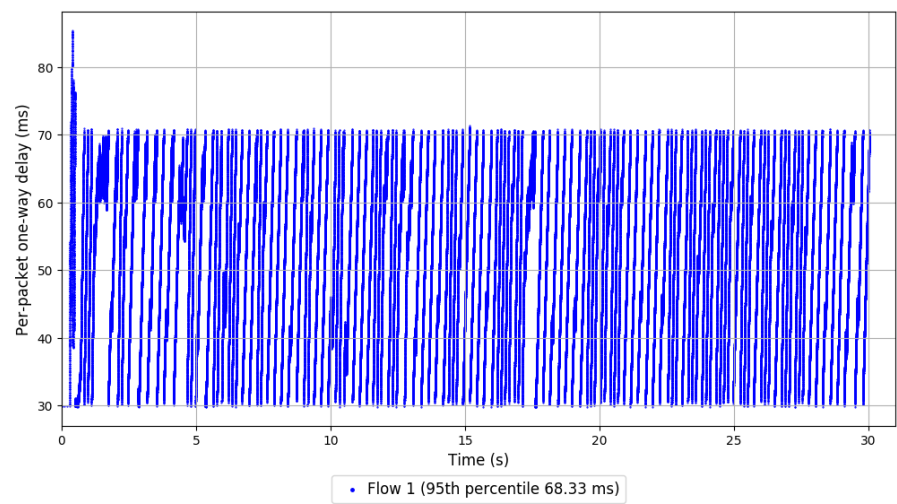
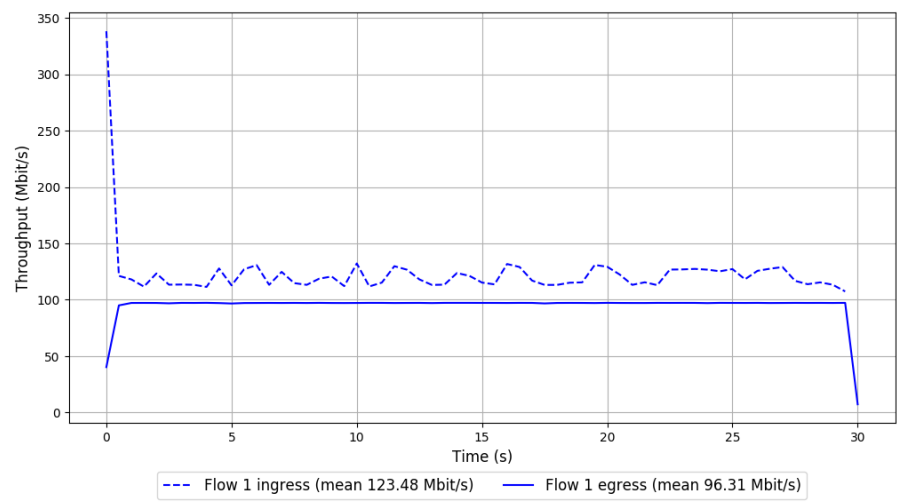
-- Flow 1:

Average throughput: 96.31 Mbit/s

95th percentile per-packet one-way delay: 68.334 ms

Loss rate: 21.91%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-02 01:45:02

End at: 2018-01-02 01:45:32

Local clock offset: -5.542 ms

Remote clock offset: 0.204 ms

Below is generated by plot.py at 2018-01-02 05:07:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.32 Mbit/s

95th percentile per-packet one-way delay: 68.282 ms

Loss rate: 22.38%

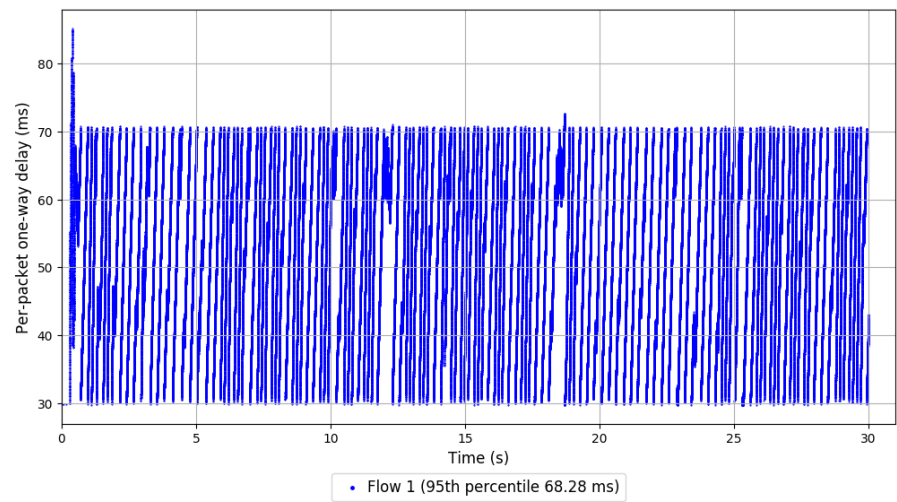
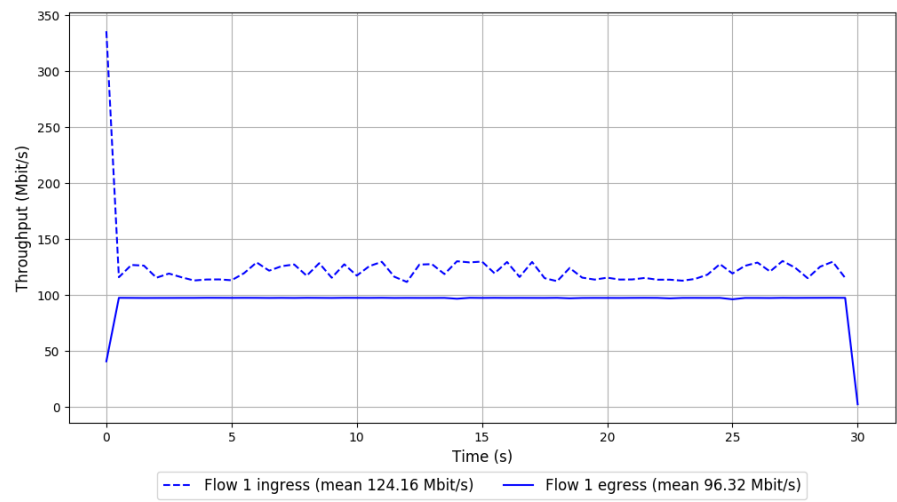
-- Flow 1:

Average throughput: 96.32 Mbit/s

95th percentile per-packet one-way delay: 68.282 ms

Loss rate: 22.38%

Run 3: Report of FillP — Data Link

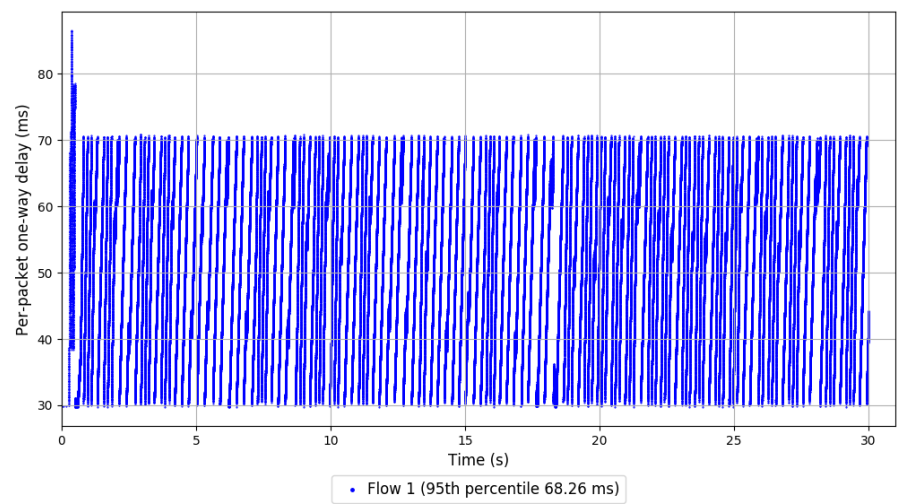
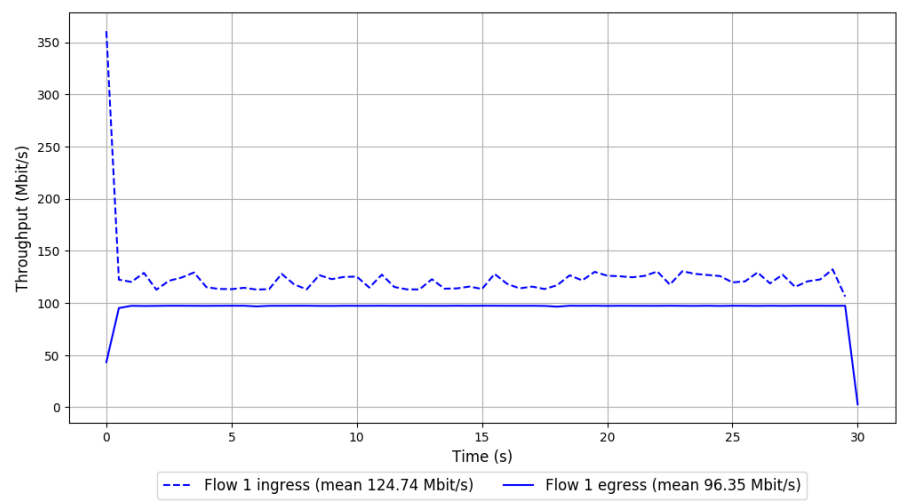


Run 4: Statistics of FillP

Start at: 2018-01-02 02:08:08
End at: 2018-01-02 02:08:38
Local clock offset: -8.081 ms
Remote clock offset: -0.982 ms

Below is generated by plot.py at 2018-01-02 05:07:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 68.260 ms
Loss rate: 22.72%
-- Flow 1:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 68.260 ms
Loss rate: 22.72%

Run 4: Report of FillP — Data Link

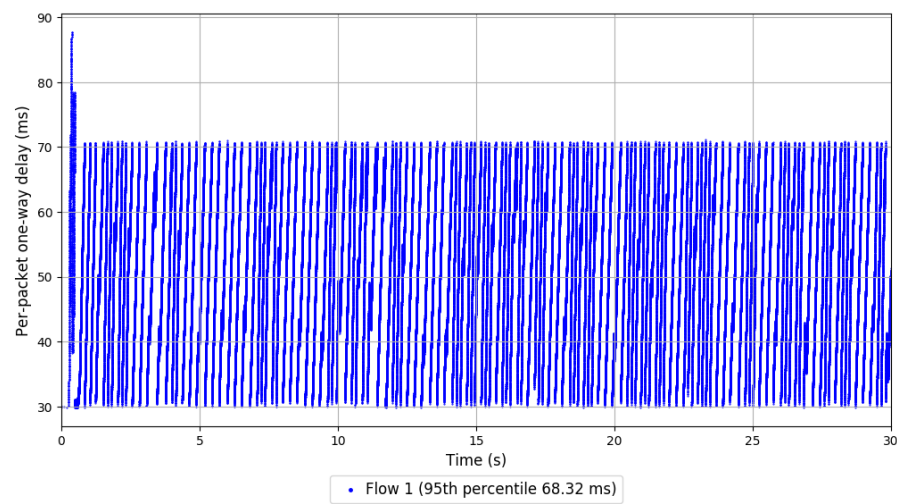
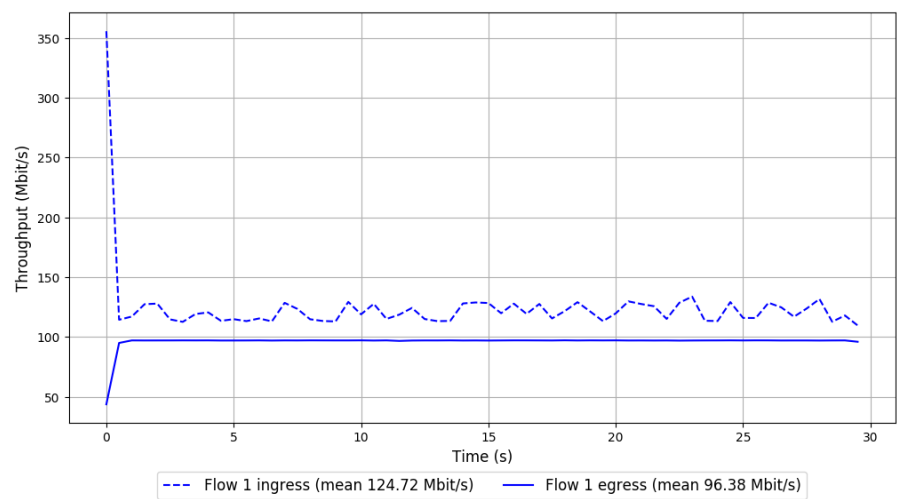


Run 5: Statistics of FillP

Start at: 2018-01-02 02:29:43
End at: 2018-01-02 02:30:13
Local clock offset: -8.39 ms
Remote clock offset: -1.768 ms

Below is generated by plot.py at 2018-01-02 05:08:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.38 Mbit/s
95th percentile per-packet one-way delay: 68.319 ms
Loss rate: 22.67%
-- Flow 1:
Average throughput: 96.38 Mbit/s
95th percentile per-packet one-way delay: 68.319 ms
Loss rate: 22.67%

Run 5: Report of FillP — Data Link

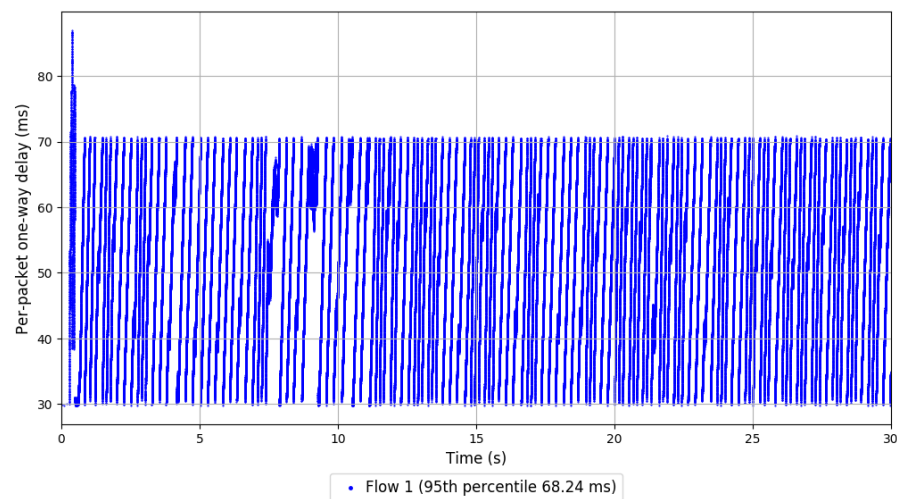
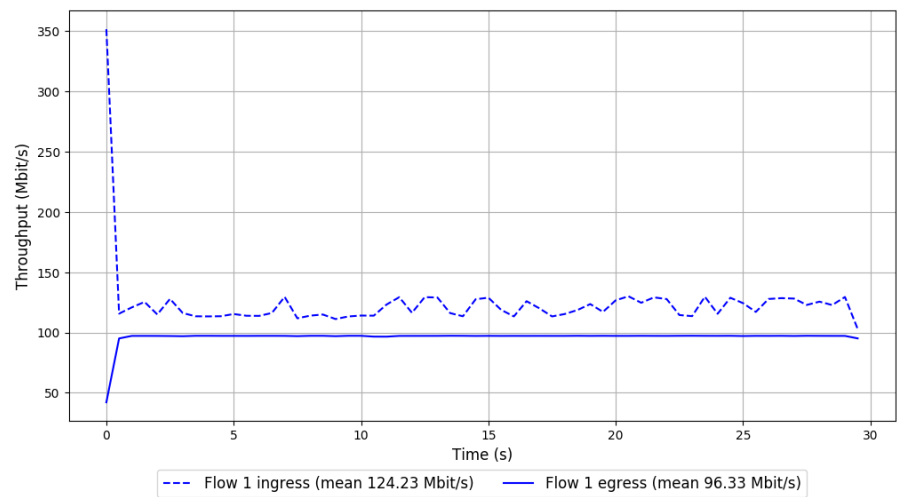


Run 6: Statistics of FillP

Start at: 2018-01-02 02:50:51
End at: 2018-01-02 02:51:21
Local clock offset: -9.581 ms
Remote clock offset: -1.183 ms

Below is generated by plot.py at 2018-01-02 05:08:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.33 Mbit/s
95th percentile per-packet one-way delay: 68.239 ms
Loss rate: 22.44%
-- Flow 1:
Average throughput: 96.33 Mbit/s
95th percentile per-packet one-way delay: 68.239 ms
Loss rate: 22.44%

Run 6: Report of FillP — Data Link

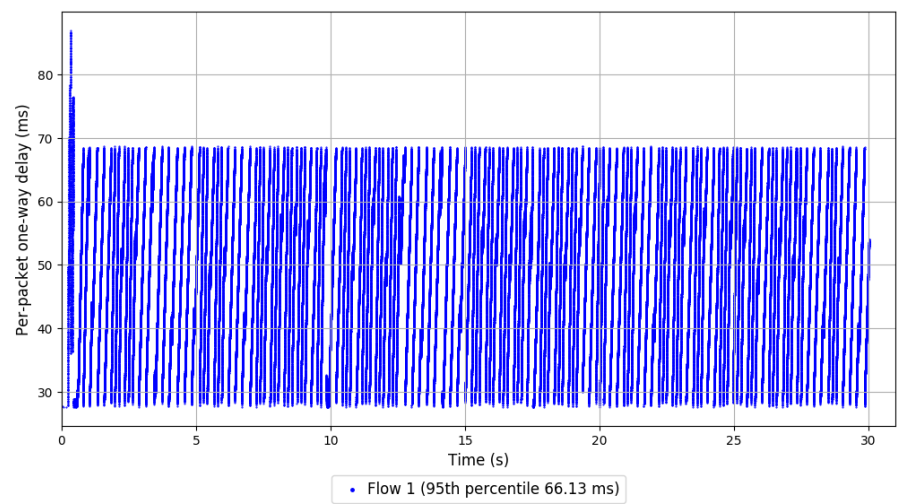
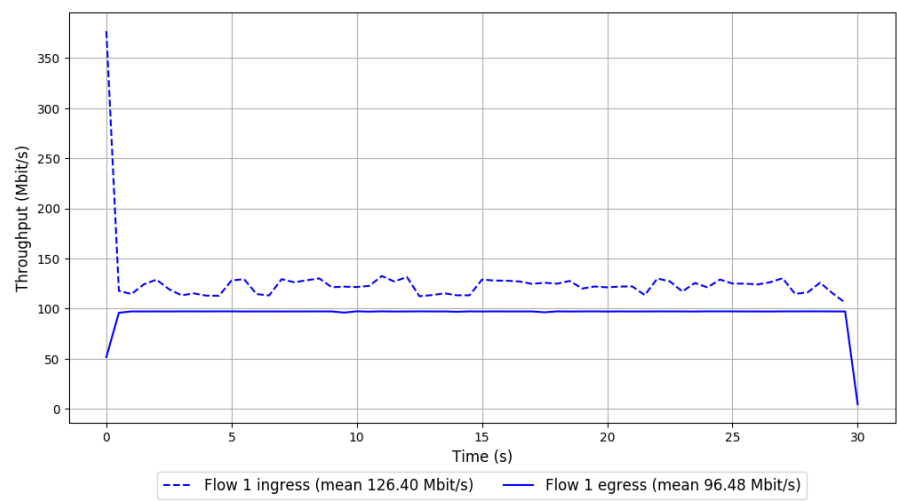


Run 7: Statistics of FillP

Start at: 2018-01-02 03:11:17
End at: 2018-01-02 03:11:47
Local clock offset: -11.459 ms
Remote clock offset: -2.063 ms

Below is generated by plot.py at 2018-01-02 05:08:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.48 Mbit/s
95th percentile per-packet one-way delay: 66.133 ms
Loss rate: 23.60%
-- Flow 1:
Average throughput: 96.48 Mbit/s
95th percentile per-packet one-way delay: 66.133 ms
Loss rate: 23.60%

Run 7: Report of FillP — Data Link

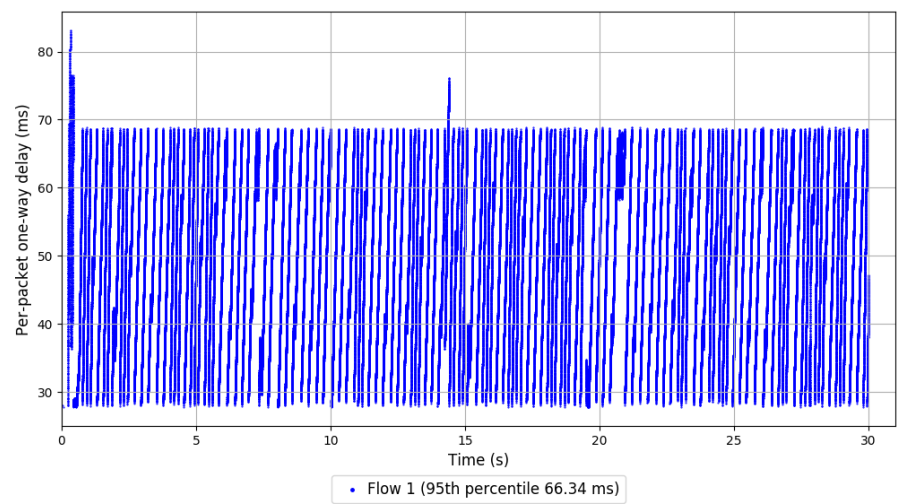
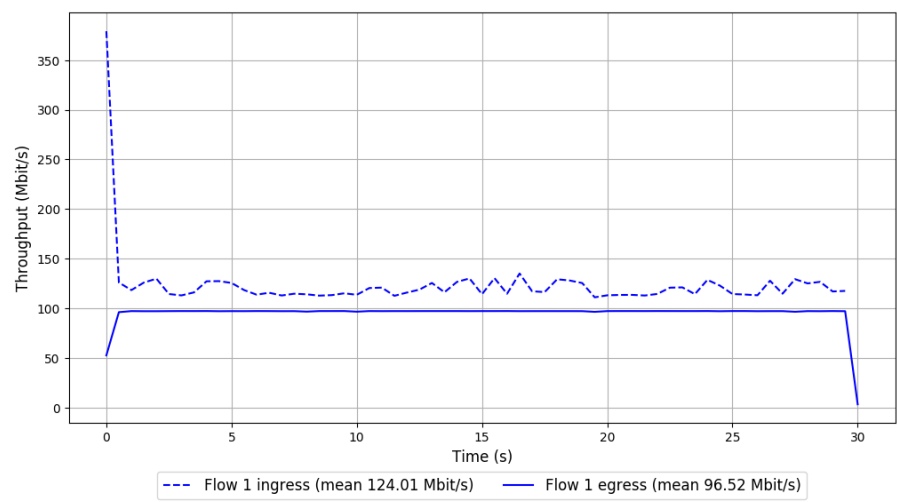


Run 8: Statistics of FillP

Start at: 2018-01-02 03:32:29
End at: 2018-01-02 03:32:59
Local clock offset: -12.681 ms
Remote clock offset: -1.229 ms

Below is generated by plot.py at 2018-01-02 05:08:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.52 Mbit/s
95th percentile per-packet one-way delay: 66.336 ms
Loss rate: 22.12%
-- Flow 1:
Average throughput: 96.52 Mbit/s
95th percentile per-packet one-way delay: 66.336 ms
Loss rate: 22.12%

Run 8: Report of FillP — Data Link

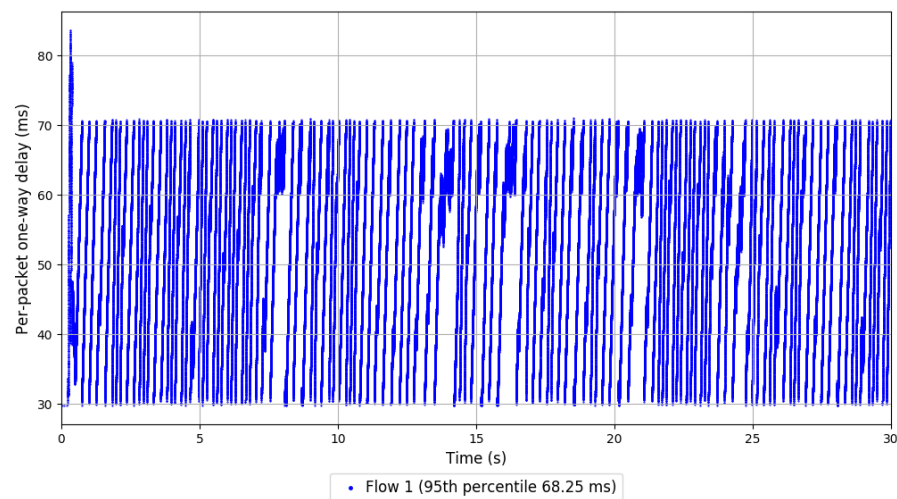
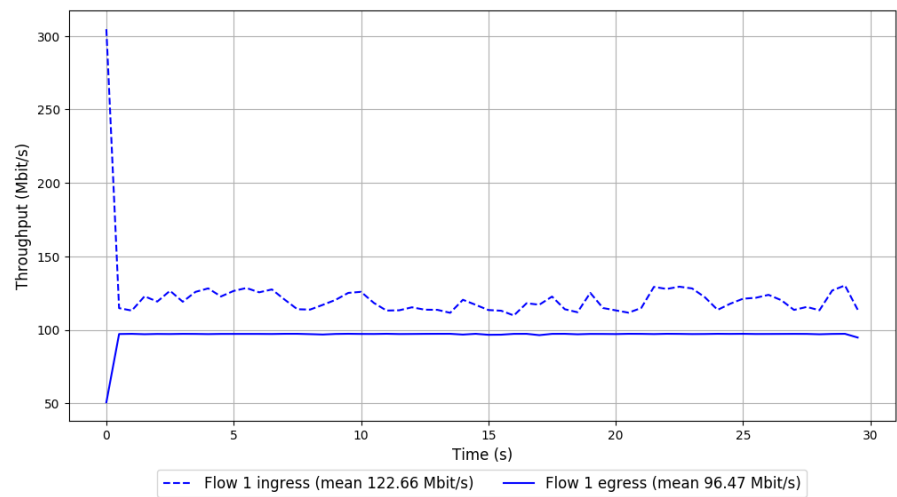


Run 9: Statistics of FillP

Start at: 2018-01-02 03:53:37
End at: 2018-01-02 03:54:07
Local clock offset: -13.659 ms
Remote clock offset: 0.552 ms

Below is generated by plot.py at 2018-01-02 05:08:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.47 Mbit/s
95th percentile per-packet one-way delay: 68.247 ms
Loss rate: 21.31%
-- Flow 1:
Average throughput: 96.47 Mbit/s
95th percentile per-packet one-way delay: 68.247 ms
Loss rate: 21.31%

Run 9: Report of FillP — Data Link

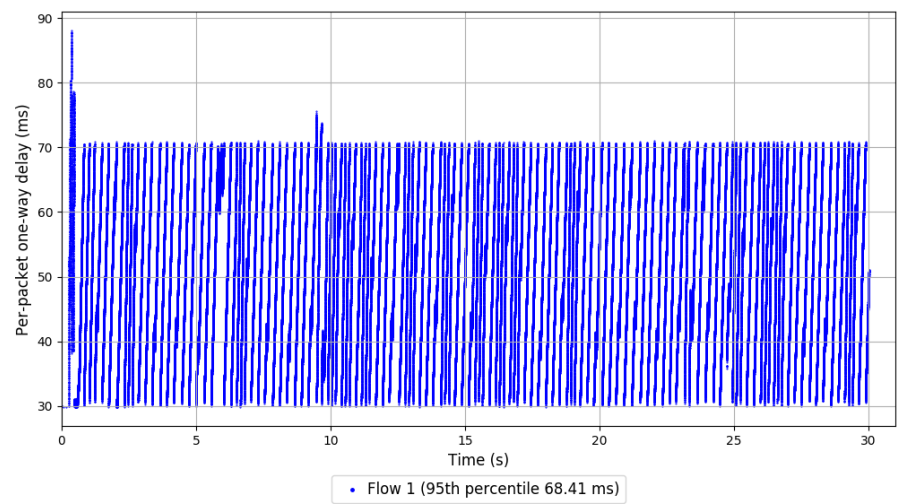
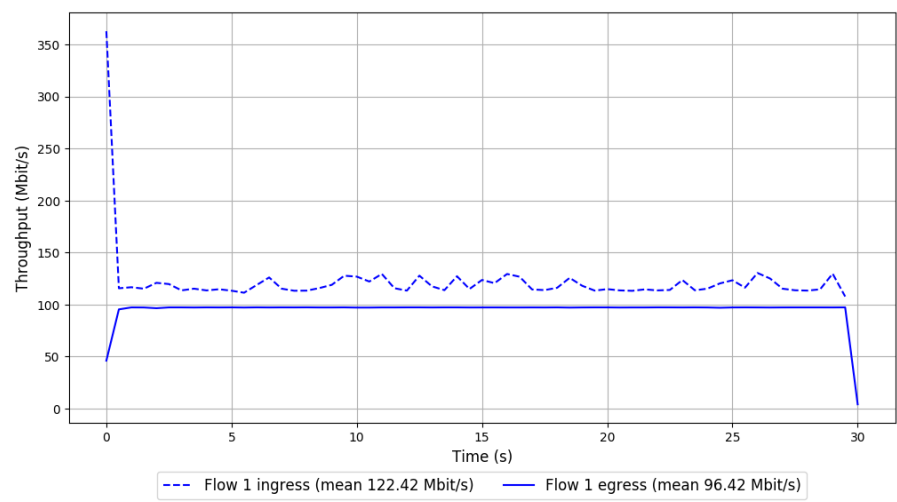


Run 10: Statistics of FillP

Start at: 2018-01-02 04:15:05
End at: 2018-01-02 04:15:35
Local clock offset: -10.957 ms
Remote clock offset: -0.137 ms

Below is generated by plot.py at 2018-01-02 05:08:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.42 Mbit/s
95th percentile per-packet one-way delay: 68.410 ms
Loss rate: 21.18%
-- Flow 1:
Average throughput: 96.42 Mbit/s
95th percentile per-packet one-way delay: 68.410 ms
Loss rate: 21.18%

Run 10: Report of FillP — Data Link

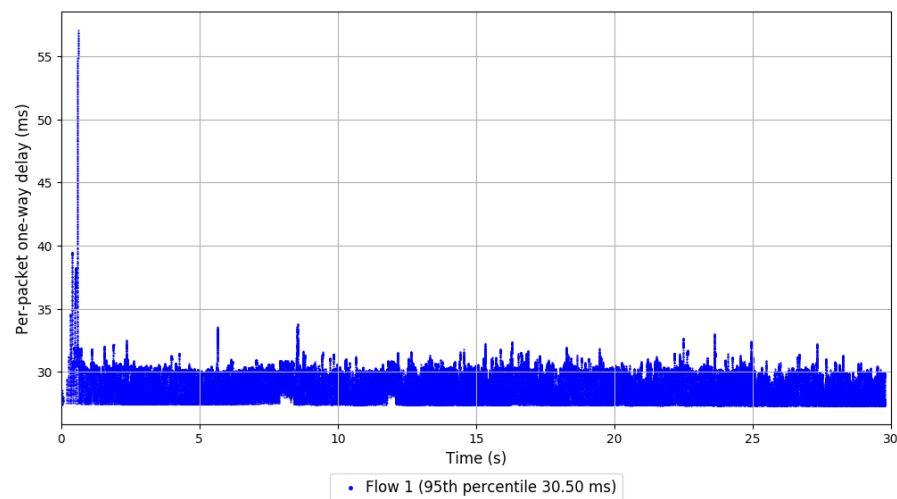
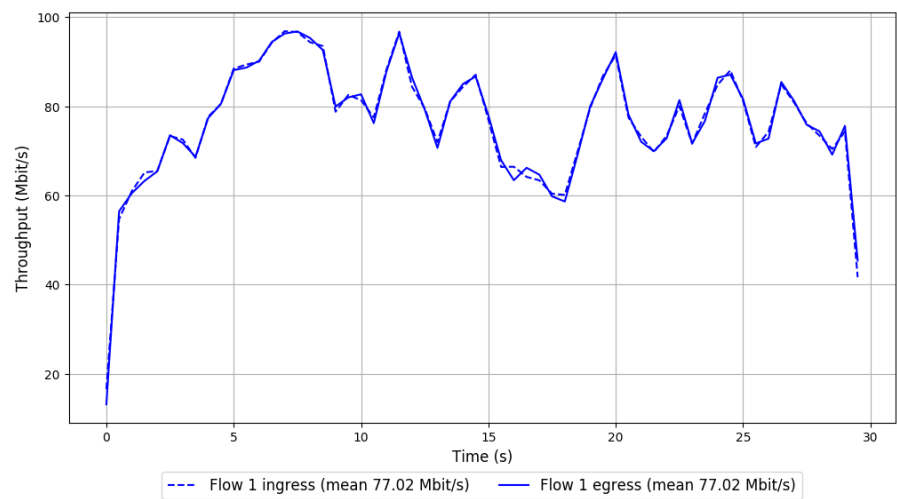


```
Run 1: Statistics of Indigo

Start at: 2018-01-02 01:16:00
End at: 2018-01-02 01:16:30
Local clock offset: 0.472 ms
Remote clock offset: -2.091 ms

# Below is generated by plot.py at 2018-01-02 05:08:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.02 Mbit/s
95th percentile per-packet one-way delay: 30.502 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 77.02 Mbit/s
95th percentile per-packet one-way delay: 30.502 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

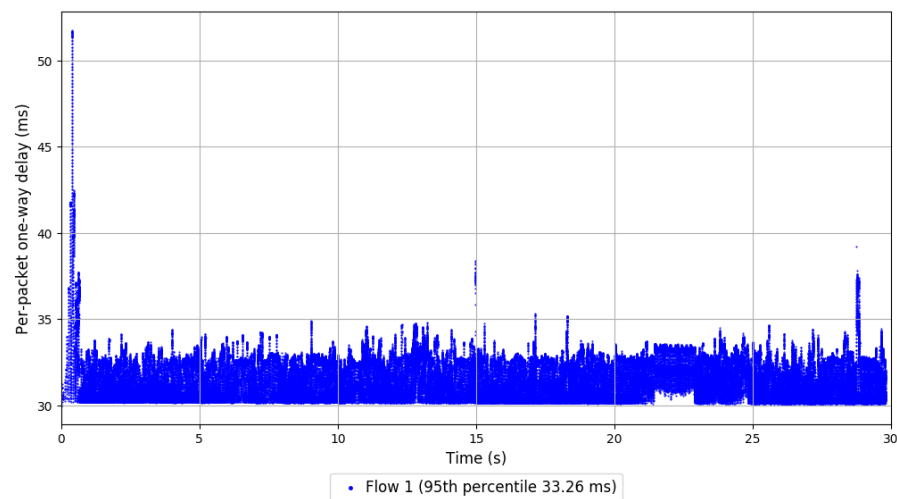
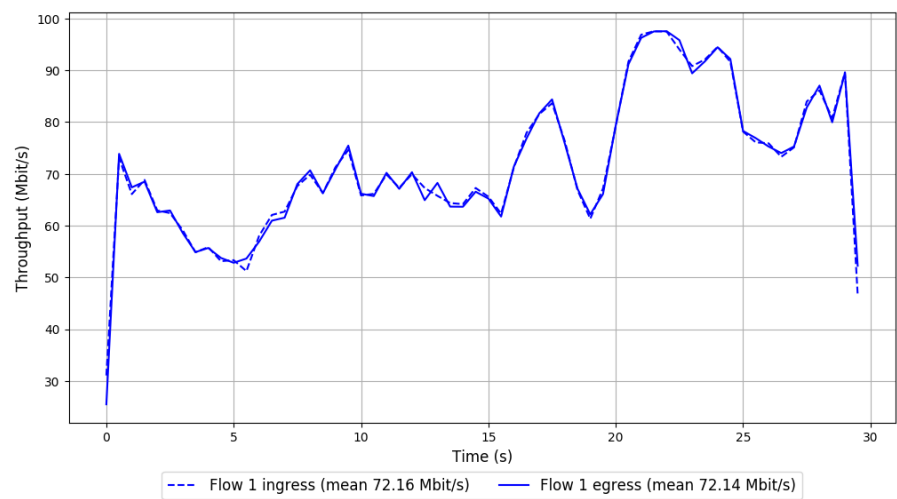


```
Run 2: Statistics of Indigo

Start at: 2018-01-02 01:39:09
End at: 2018-01-02 01:39:39
Local clock offset: -4.221 ms
Remote clock offset: 0.816 ms

# Below is generated by plot.py at 2018-01-02 05:08:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.14 Mbit/s
95th percentile per-packet one-way delay: 33.259 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 72.14 Mbit/s
95th percentile per-packet one-way delay: 33.259 ms
Loss rate: 0.03%
```

Run 2: Report of Indigo — Data Link

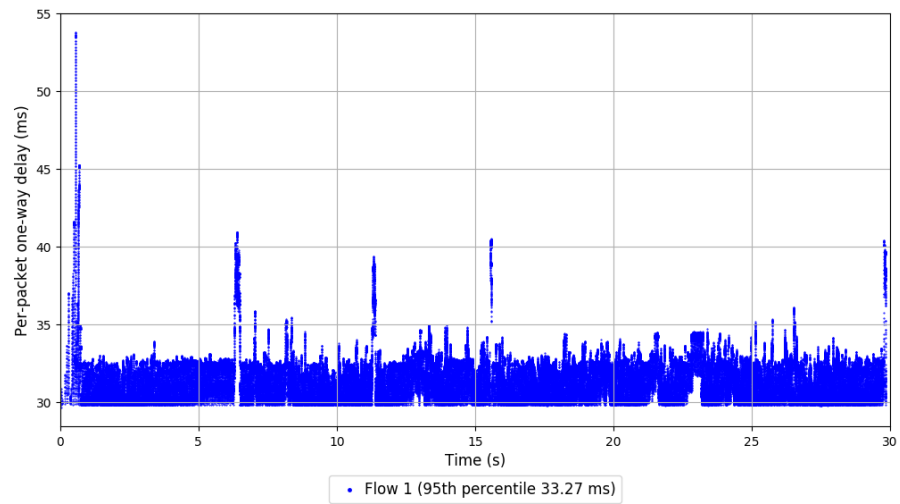
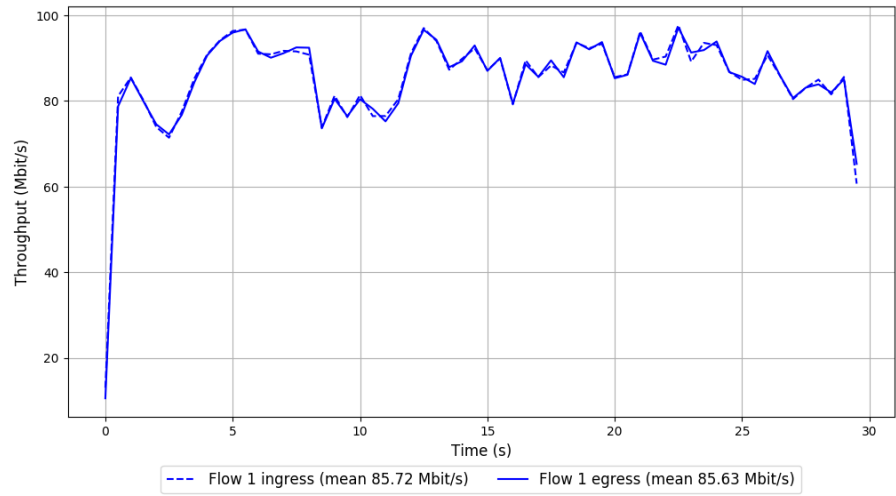


Run 3: Statistics of Indigo

Start at: 2018-01-02 02:02:16
End at: 2018-01-02 02:02:46
Local clock offset: -7.629 ms
Remote clock offset: -0.577 ms

Below is generated by plot.py at 2018-01-02 05:09:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.63 Mbit/s
95th percentile per-packet one-way delay: 33.266 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 85.63 Mbit/s
95th percentile per-packet one-way delay: 33.266 ms
Loss rate: 0.09%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

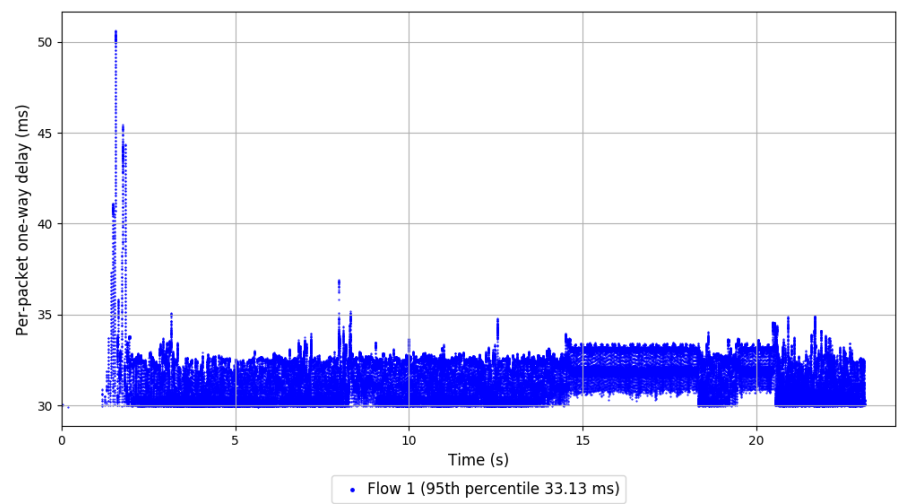
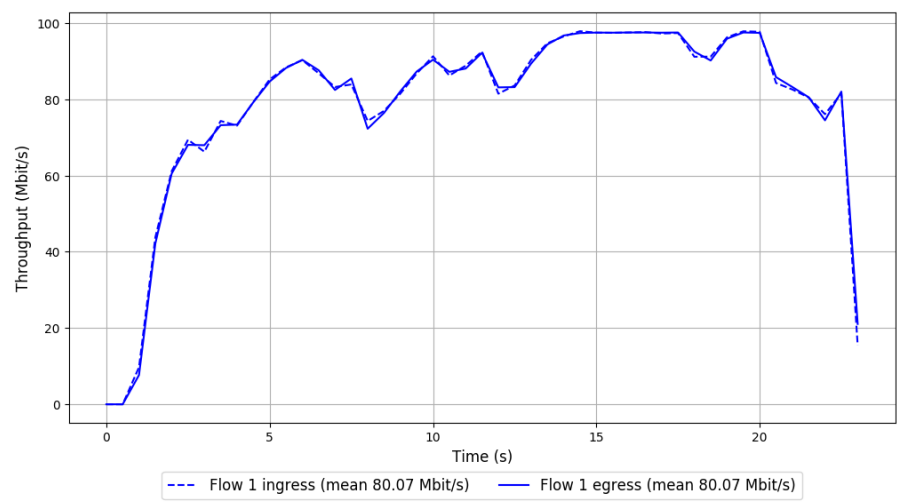
Start at: 2018-01-02 02:24:15

End at: 2018-01-02 02:24:45

Local clock offset: -8.616 ms

Remote clock offset: -1.719 ms

Run 4: Report of Indigo — Data Link

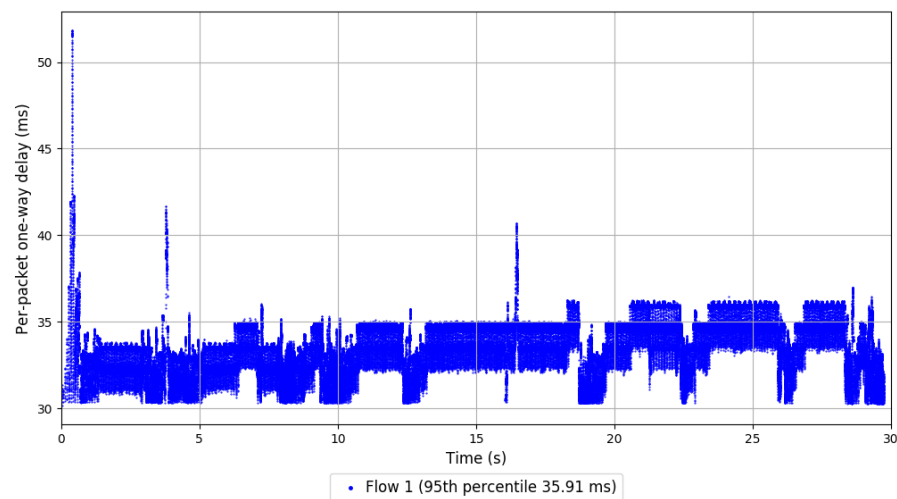
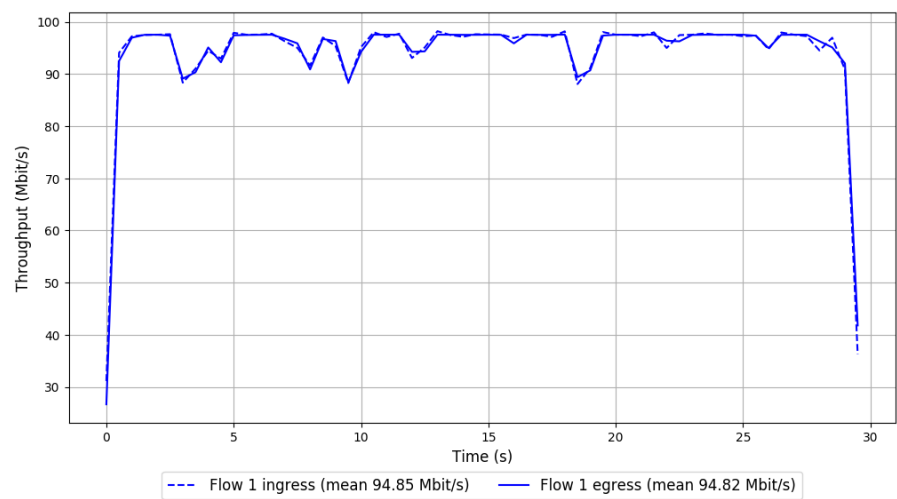


Run 5: Statistics of Indigo

Start at: 2018-01-02 02:45:27
End at: 2018-01-02 02:45:57
Local clock offset: -9.094 ms
Remote clock offset: -0.885 ms

Below is generated by plot.py at 2018-01-02 05:09:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.82 Mbit/s
95th percentile per-packet one-way delay: 35.913 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 94.82 Mbit/s
95th percentile per-packet one-way delay: 35.913 ms
Loss rate: 0.03%

Run 5: Report of Indigo — Data Link

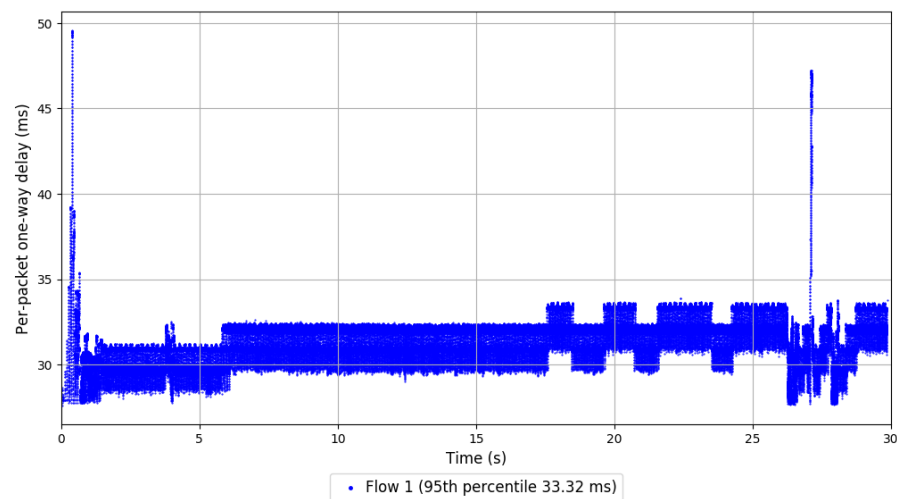
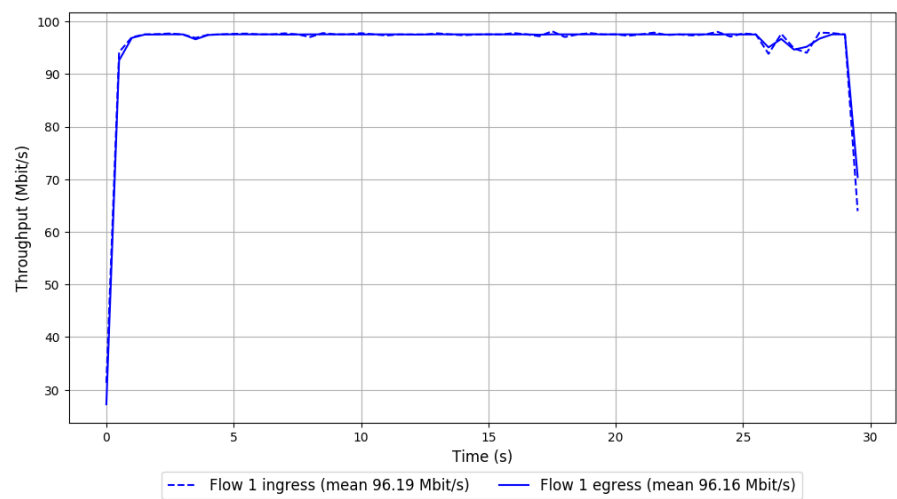


Run 6: Statistics of Indigo

Start at: 2018-01-02 03:05:51
End at: 2018-01-02 03:06:21
Local clock offset: -10.831 ms
Remote clock offset: -2.284 ms

Below is generated by plot.py at 2018-01-02 05:09:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.16 Mbit/s
95th percentile per-packet one-way delay: 33.321 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.16 Mbit/s
95th percentile per-packet one-way delay: 33.321 ms
Loss rate: 0.01%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

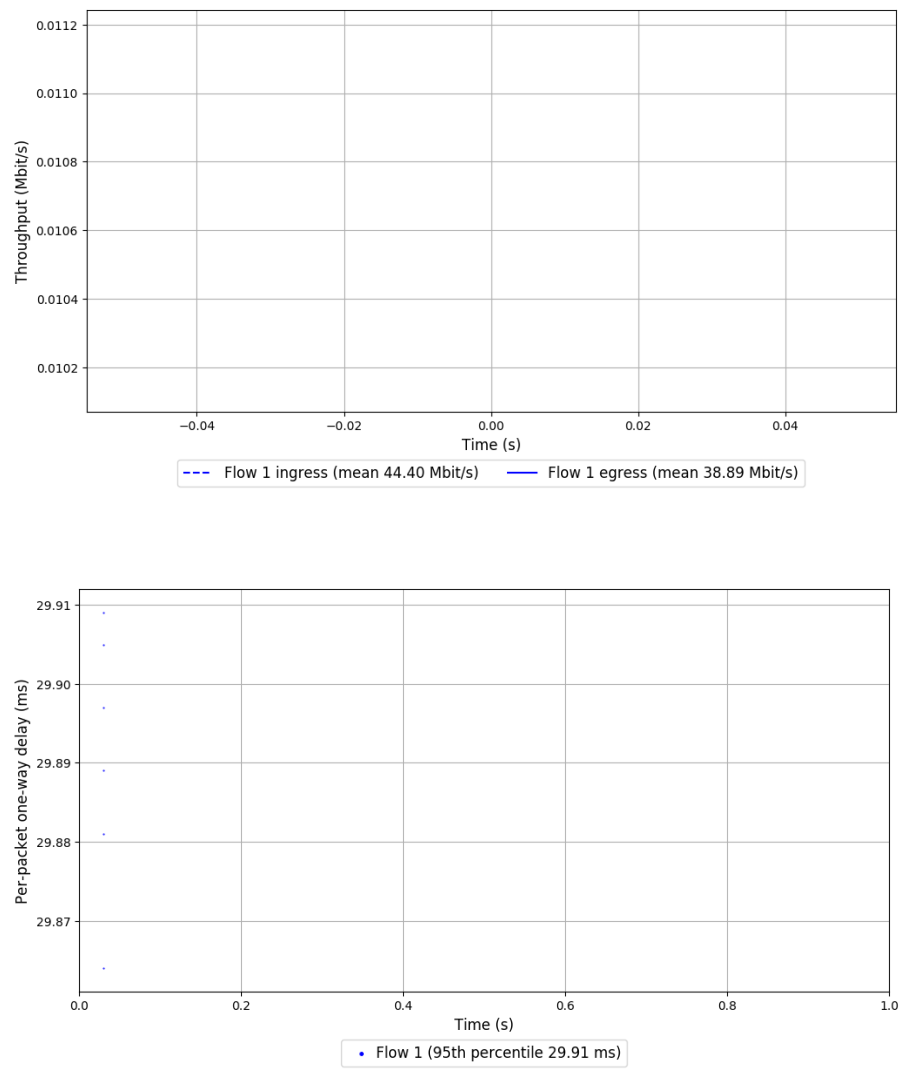
Start at: 2018-01-02 03:27:06

End at: 2018-01-02 03:27:36

Local clock offset: -12.455 ms

Remote clock offset: 0.851 ms

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

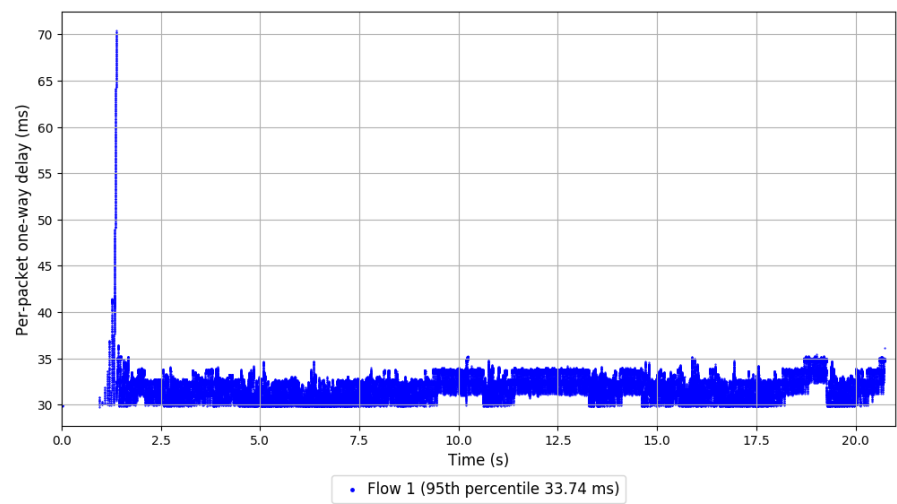
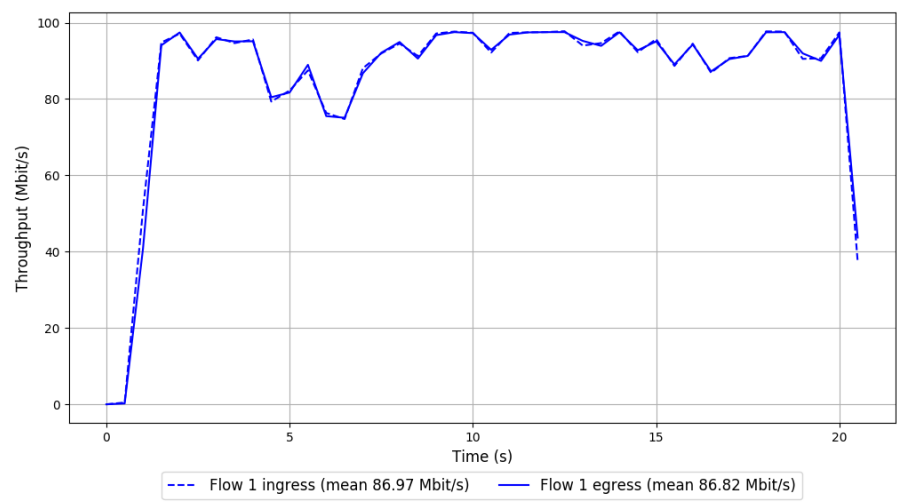
Start at: 2018-01-02 03:47:59

End at: 2018-01-02 03:48:29

Local clock offset: -13.383 ms

Remote clock offset: 0.706 ms

Run 8: Report of Indigo — Data Link

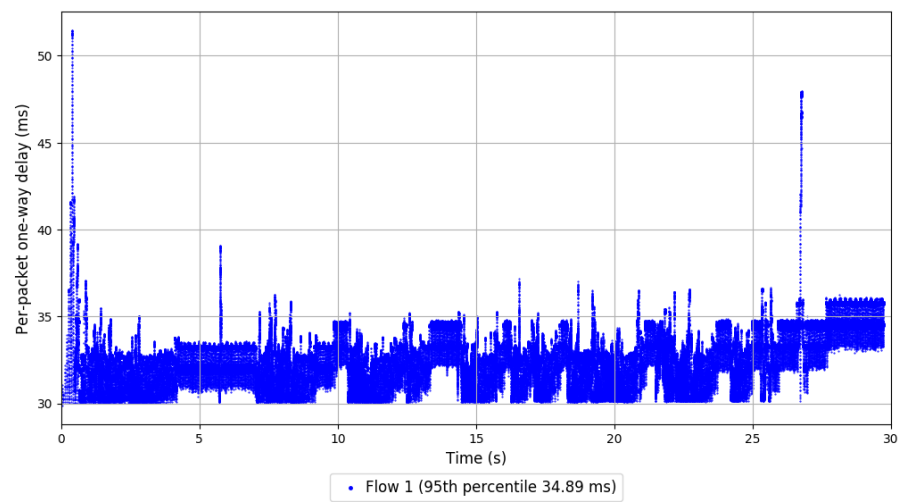
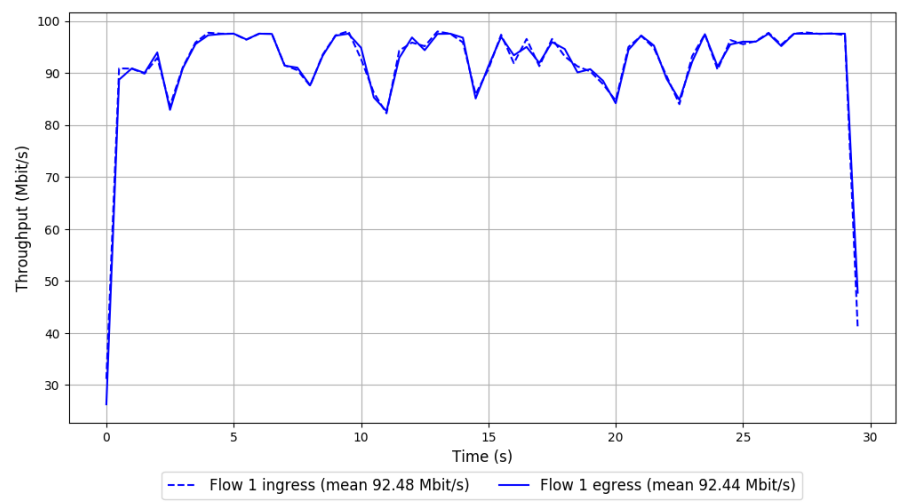


Run 9: Statistics of Indigo

Start at: 2018-01-02 04:09:37
End at: 2018-01-02 04:10:07
Local clock offset: -11.787 ms
Remote clock offset: 0.147 ms

Below is generated by plot.py at 2018-01-02 05:09:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.44 Mbit/s
95th percentile per-packet one-way delay: 34.887 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 92.44 Mbit/s
95th percentile per-packet one-way delay: 34.887 ms
Loss rate: 0.02%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-02 04:30:08

End at: 2018-01-02 04:30:38

Local clock offset: -9.105 ms

Remote clock offset: -2.722 ms

Below is generated by plot.py at 2018-01-02 05:09:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.77 Mbit/s

95th percentile per-packet one-way delay: 33.884 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 95.77 Mbit/s

95th percentile per-packet one-way delay: 33.884 ms

Loss rate: 0.02%

Run 10: Report of Indigo — Data Link

