

Pantheon Report

Generated at 2018-01-02 04:12:45 (UTC).

Data path: AWS Brazil 2 Ethernet (*local*) → Colombia 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).

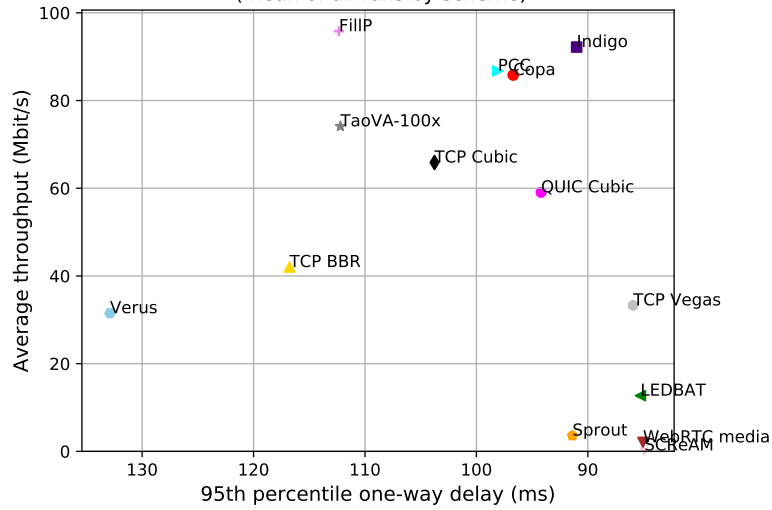
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

NTP offsets were measured against **gps.ntp.br** and have been applied to correct the timestamps in logs.

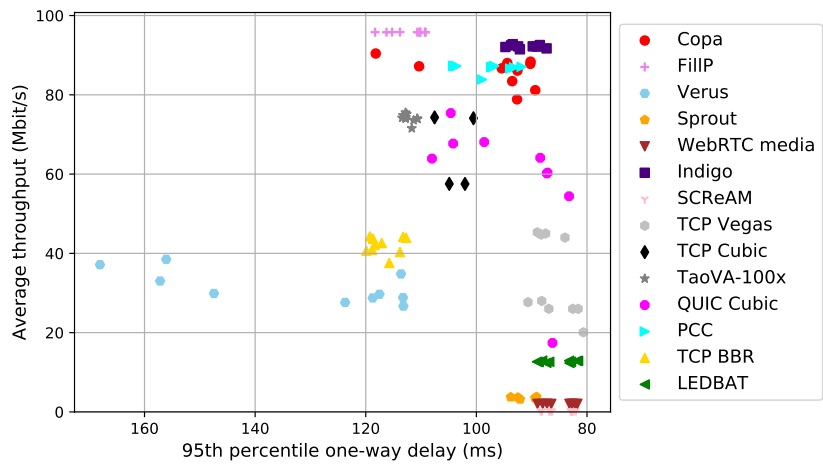
Git summary:

```
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 Brazil 2 Ethernet to Colombia Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from AWS Brazil 2 Ethernet to Colombia 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	42.03	116.77	25.90
TCP Cubic	4	65.86	103.76	0.44
LEDBAT	10	12.69	85.28	0.01
PCC	10	86.75	98.08	1.48
QUIC Cubic	9	59.06	94.20	0.21
SCReAM	10	0.22	84.93	0.00
WebRTC media	8	2.05	85.05	0.00
Sprout	5	3.59	91.38	0.00
TaoVA-100x	10	74.12	112.21	0.72
TCP Vegas	10	33.28	85.93	0.38
Verus	10	31.50	132.88	40.95
Copa	10	85.81	96.69	2.61
FillP	10	95.81	112.34	15.11
Indigo	10	92.20	91.00	0.44

Run 1: Statistics of TCP BBR

Start at: 2018-01-02 00:49:24

End at: 2018-01-02 00:49:54

Local clock offset: -1.441 ms

Remote clock offset: 0.754 ms

Below is generated by plot.py at 2018-01-02 03:58:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.61 Mbit/s

95th percentile per-packet one-way delay: 117.110 ms

Loss rate: 26.04%

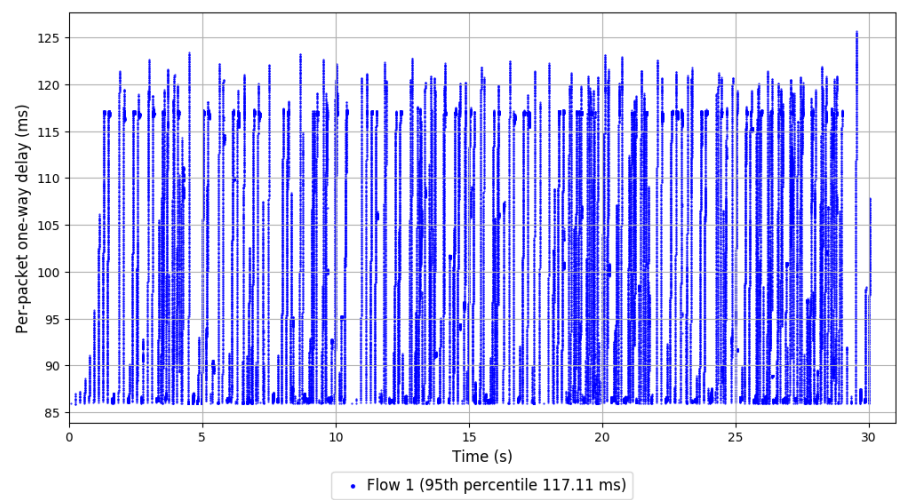
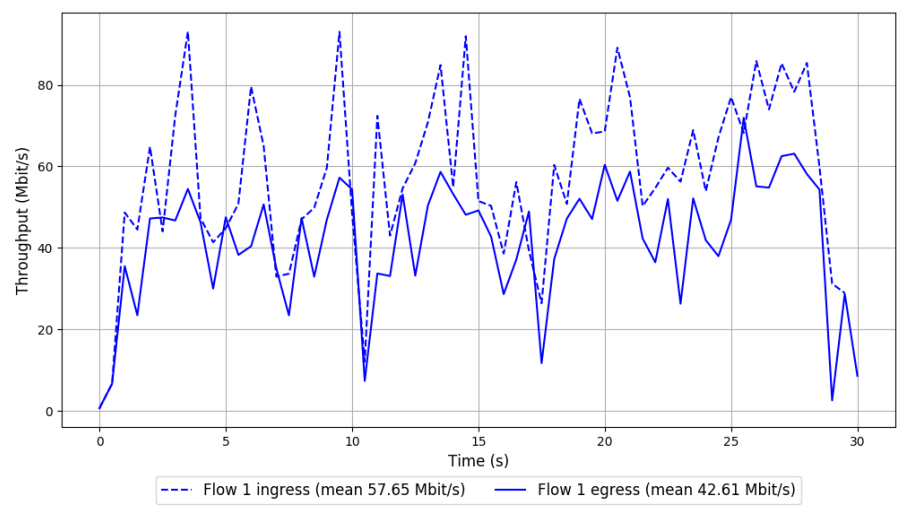
-- Flow 1:

Average throughput: 42.61 Mbit/s

95th percentile per-packet one-way delay: 117.110 ms

Loss rate: 26.04%

Run 1: Report of TCP BBR — Data Link

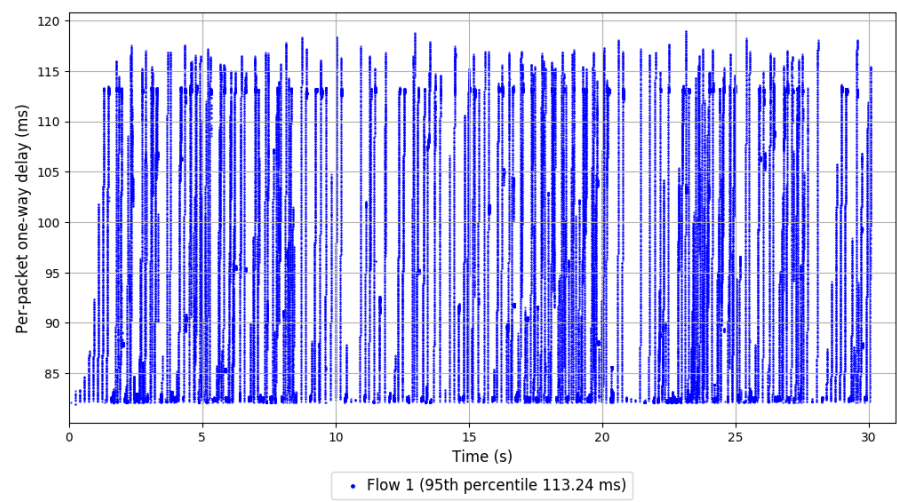
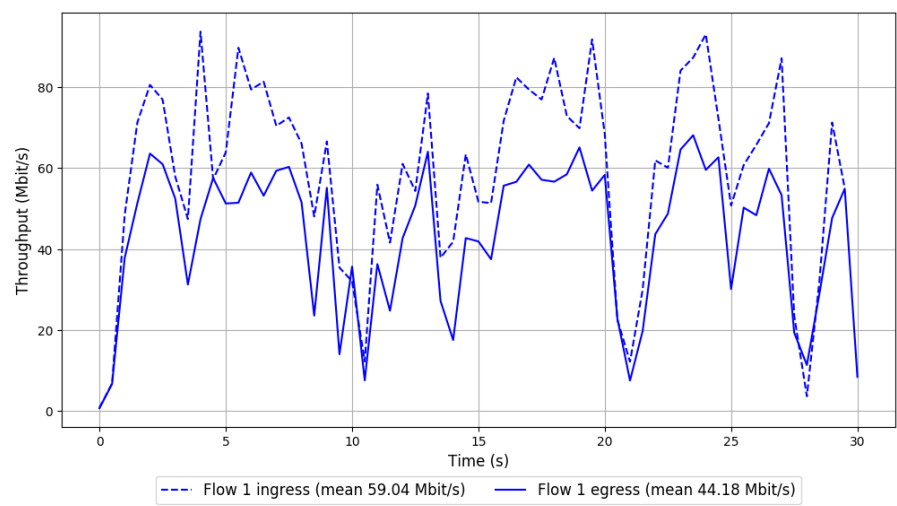


Run 2: Statistics of TCP BBR

Start at: 2018-01-02 01:07:40
End at: 2018-01-02 01:08:10
Local clock offset: -1.317 ms
Remote clock offset: -4.423 ms

Below is generated by plot.py at 2018-01-02 03:58:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 44.18 Mbit/s
95th percentile per-packet one-way delay: 113.239 ms
Loss rate: 25.15%
-- Flow 1:
Average throughput: 44.18 Mbit/s
95th percentile per-packet one-way delay: 113.239 ms
Loss rate: 25.15%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-02 01:25:51

End at: 2018-01-02 01:26:21

Local clock offset: -1.163 ms

Remote clock offset: 2.62 ms

Below is generated by plot.py at 2018-01-02 03:58:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.69 Mbit/s

95th percentile per-packet one-way delay: 118.685 ms

Loss rate: 25.99%

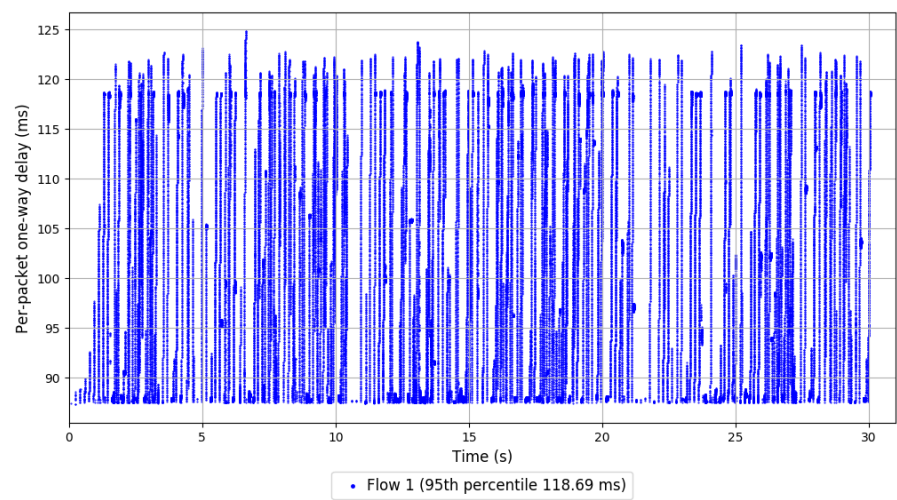
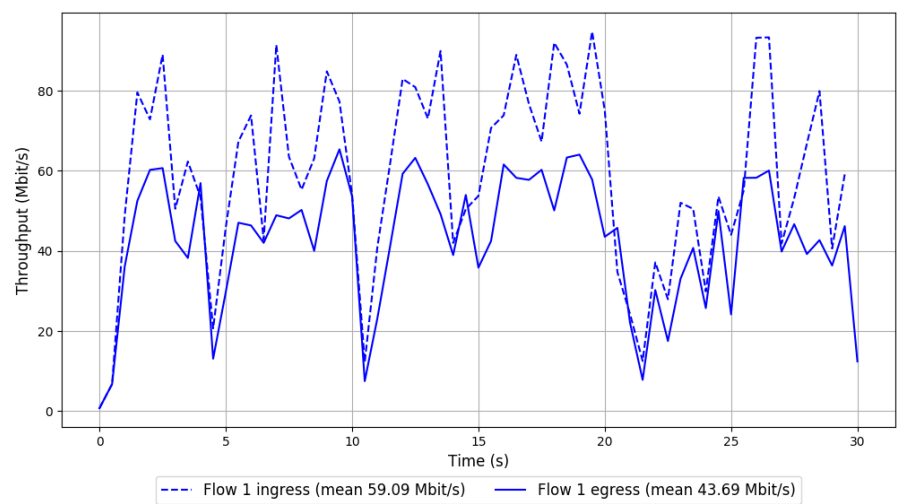
-- Flow 1:

Average throughput: 43.69 Mbit/s

95th percentile per-packet one-way delay: 118.685 ms

Loss rate: 25.99%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

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

End at: 2018-01-02 01:44:31

Local clock offset: -0.645 ms

Remote clock offset: 0.721 ms

Below is generated by plot.py at 2018-01-02 03:58:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.88 Mbit/s

95th percentile per-packet one-way delay: 118.836 ms

Loss rate: 25.82%

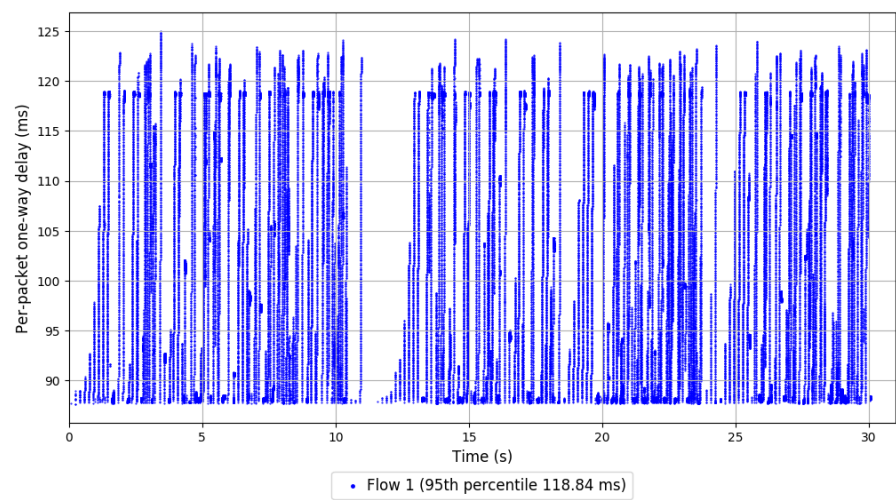
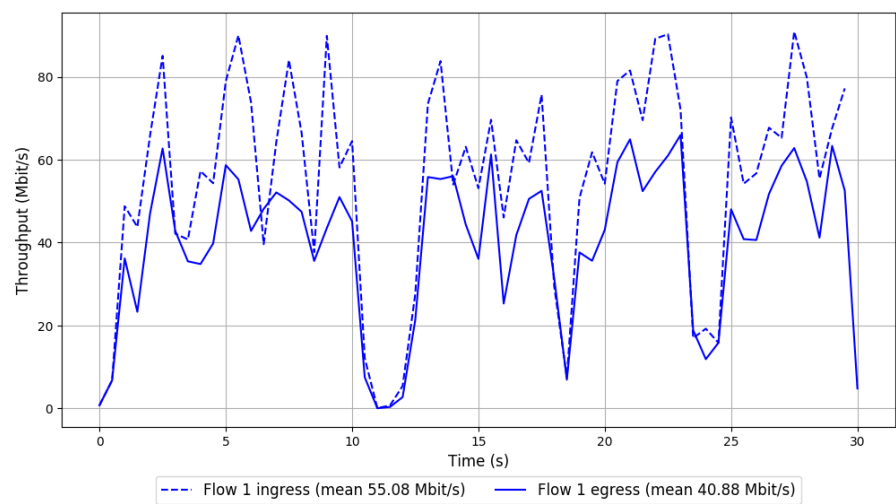
-- Flow 1:

Average throughput: 40.88 Mbit/s

95th percentile per-packet one-way delay: 118.836 ms

Loss rate: 25.82%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

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

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

Local clock offset: -0.68 ms

Remote clock offset: -0.049 ms

Below is generated by plot.py at 2018-01-02 03:58:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.14 Mbit/s

95th percentile per-packet one-way delay: 118.402 ms

Loss rate: 27.40%

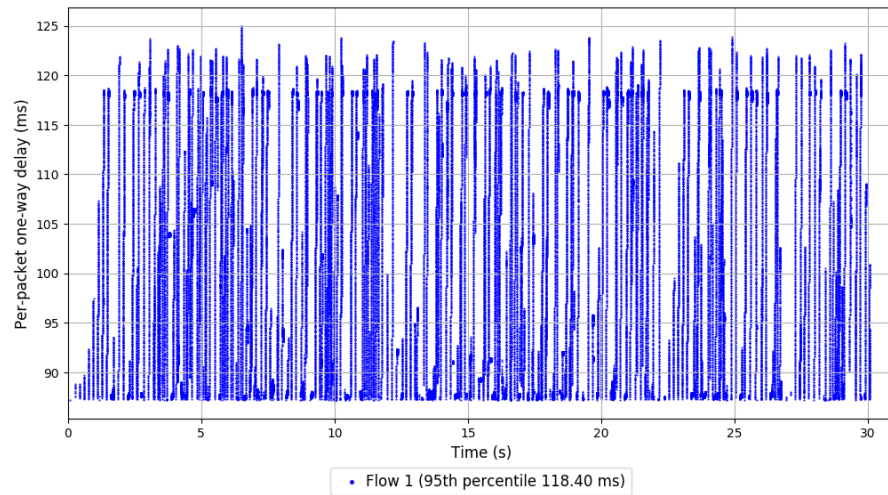
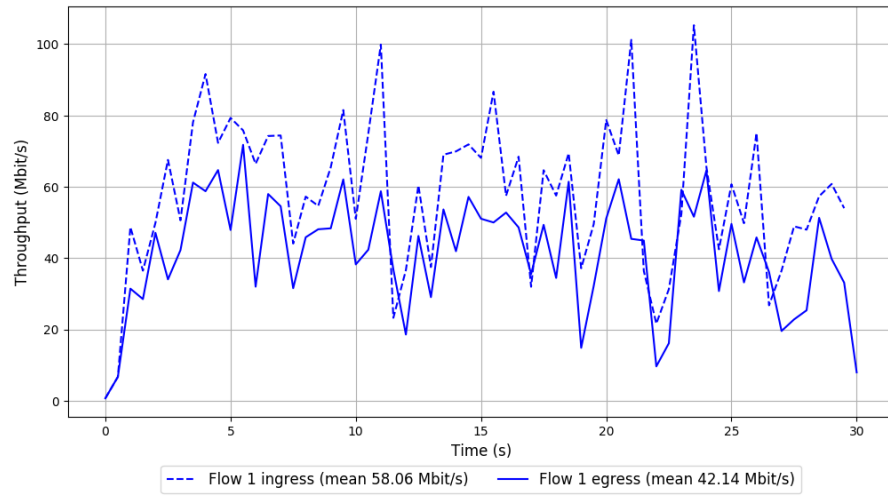
-- Flow 1:

Average throughput: 42.14 Mbit/s

95th percentile per-packet one-way delay: 118.402 ms

Loss rate: 27.40%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-02 02:20:28

End at: 2018-01-02 02:20:58

Local clock offset: -0.691 ms

Remote clock offset: -4.48 ms

Below is generated by plot.py at 2018-01-02 03:58:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.92 Mbit/s

95th percentile per-packet one-way delay: 112.699 ms

Loss rate: 26.28%

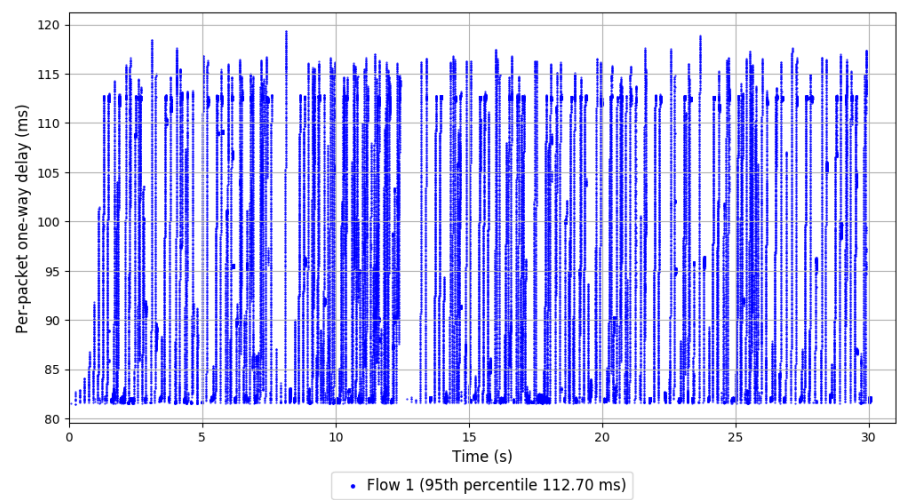
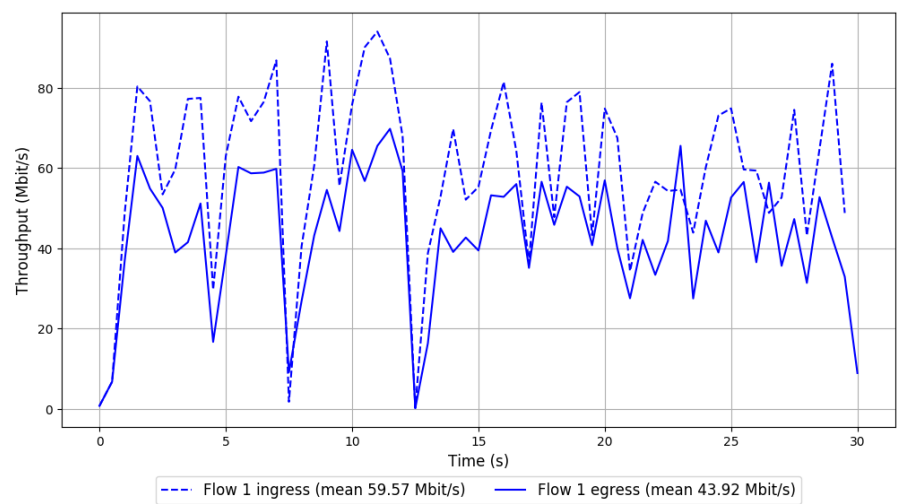
-- Flow 1:

Average throughput: 43.92 Mbit/s

95th percentile per-packet one-way delay: 112.699 ms

Loss rate: 26.28%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-02 02:38:39

End at: 2018-01-02 02:39:09

Local clock offset: -0.619 ms

Remote clock offset: 0.537 ms

Below is generated by plot.py at 2018-01-02 03:58:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.67 Mbit/s

95th percentile per-packet one-way delay: 119.890 ms

Loss rate: 23.87%

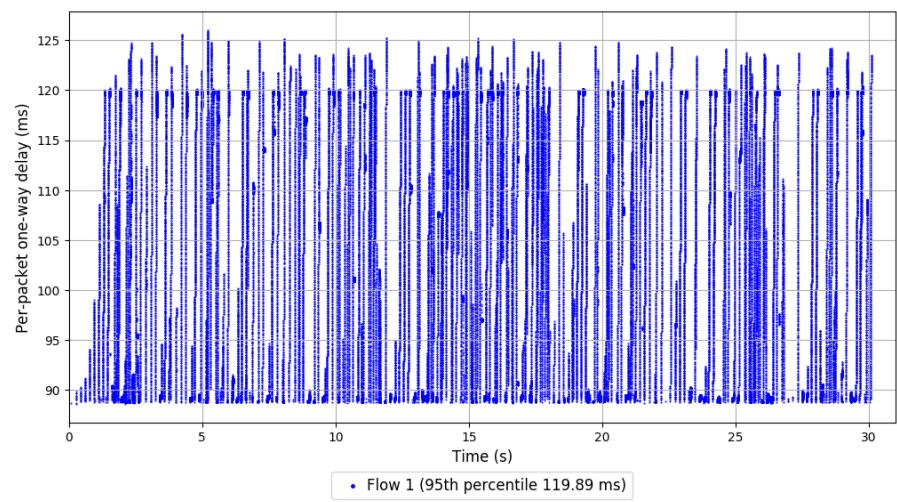
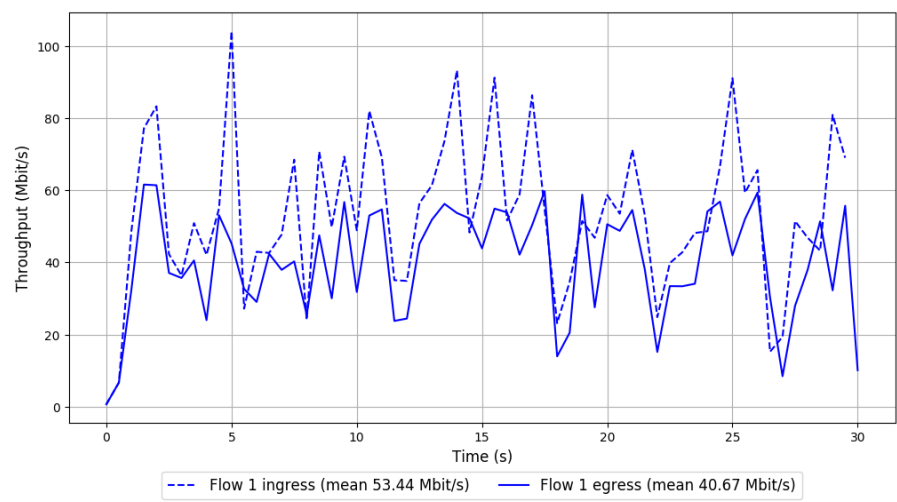
-- Flow 1:

Average throughput: 40.67 Mbit/s

95th percentile per-packet one-way delay: 119.890 ms

Loss rate: 23.87%

Run 7: Report of TCP BBR — Data Link

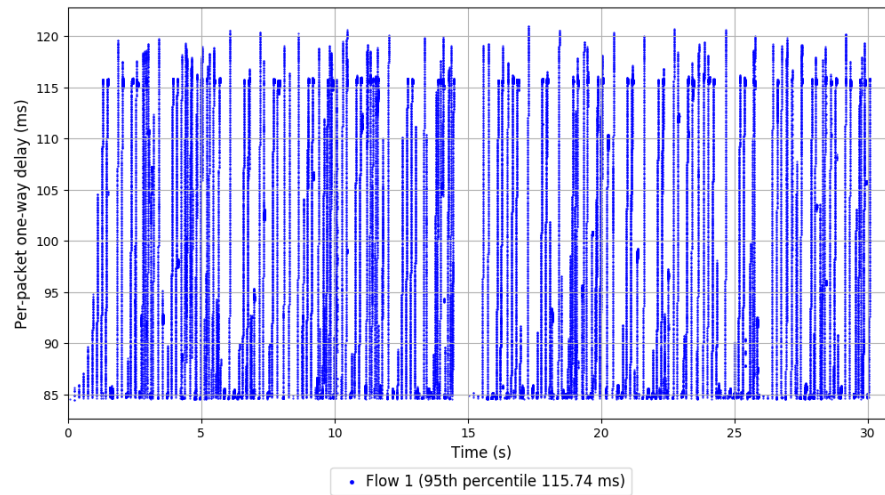
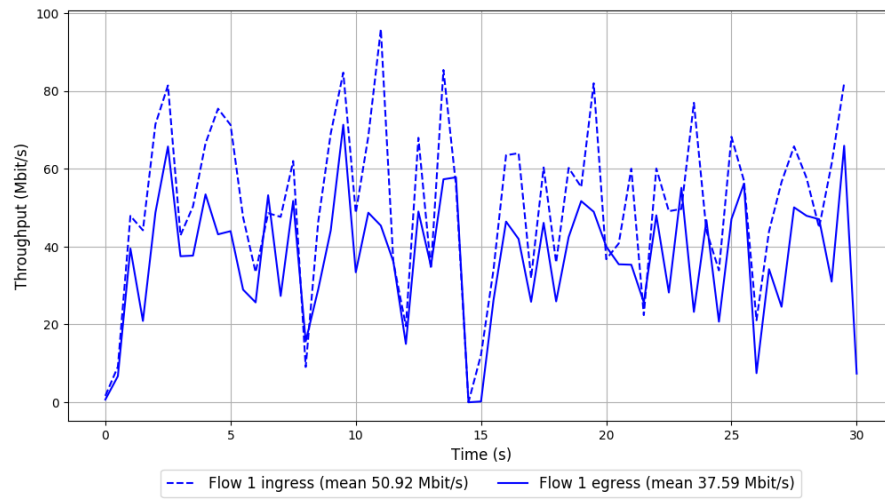


Run 8: Statistics of TCP BBR

Start at: 2018-01-02 02:56:51
End at: 2018-01-02 02:57:21
Local clock offset: -0.702 ms
Remote clock offset: -1.455 ms

Below is generated by plot.py at 2018-01-02 03:58:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 37.59 Mbit/s
95th percentile per-packet one-way delay: 115.743 ms
Loss rate: 26.12%
-- Flow 1:
Average throughput: 37.59 Mbit/s
95th percentile per-packet one-way delay: 115.743 ms
Loss rate: 26.12%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-02 03:15:06

End at: 2018-01-02 03:15:36

Local clock offset: -0.795 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-01-02 03:59:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.27 Mbit/s

95th percentile per-packet one-way delay: 119.262 ms

Loss rate: 25.56%

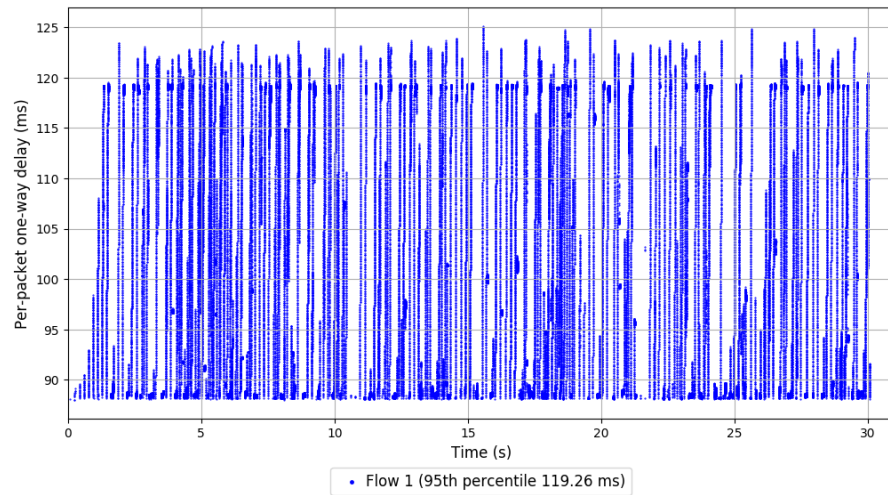
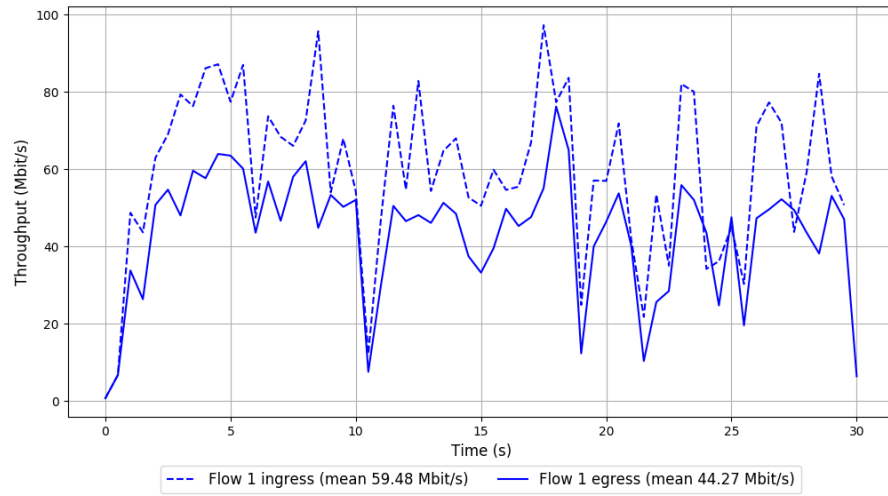
-- Flow 1:

Average throughput: 44.27 Mbit/s

95th percentile per-packet one-way delay: 119.262 ms

Loss rate: 25.56%

Run 9: Report of TCP BBR — Data Link

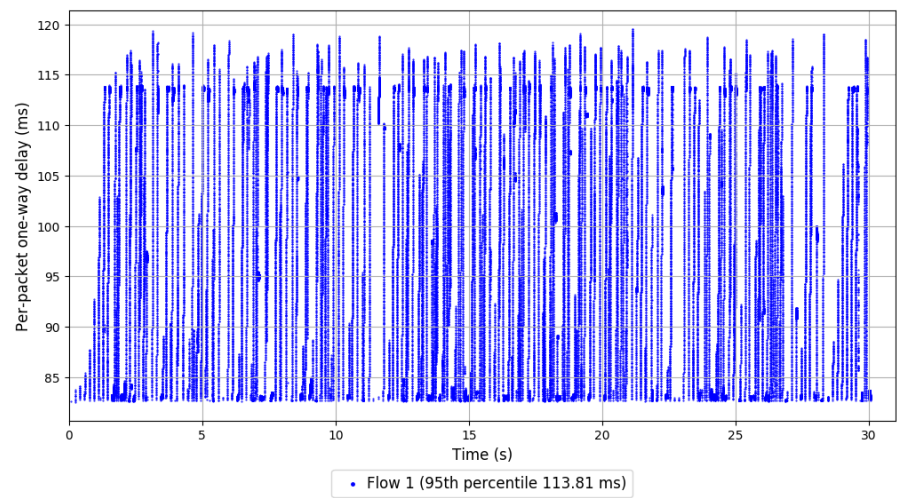
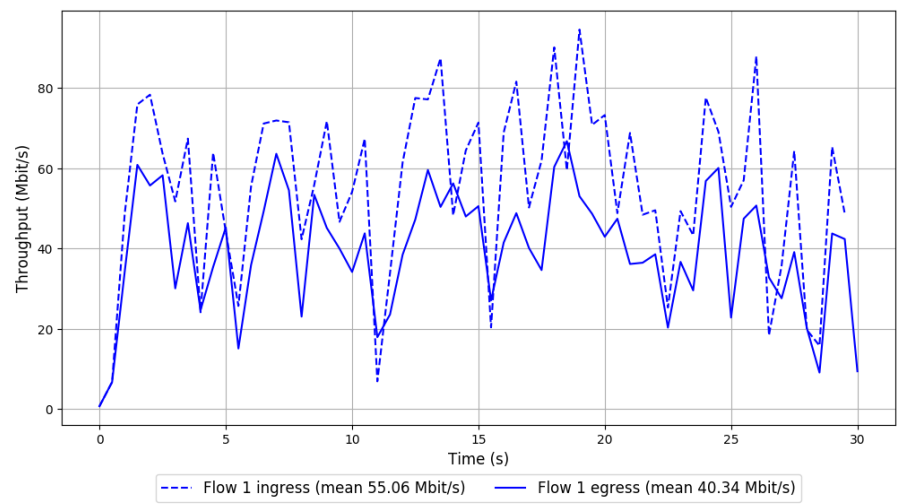


Run 10: Statistics of TCP BBR

Start at: 2018-01-02 03:33:17
End at: 2018-01-02 03:33:47
Local clock offset: -0.881 ms
Remote clock offset: -5.909 ms

Below is generated by plot.py at 2018-01-02 03:59:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 40.34 Mbit/s
95th percentile per-packet one-way delay: 113.815 ms
Loss rate: 26.74%
-- Flow 1:
Average throughput: 40.34 Mbit/s
95th percentile per-packet one-way delay: 113.815 ms
Loss rate: 26.74%

Run 10: Report of TCP BBR — Data Link

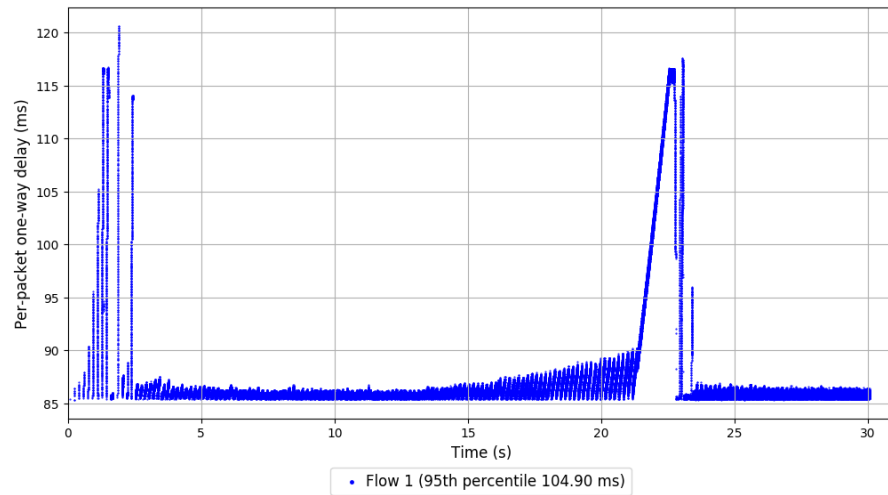
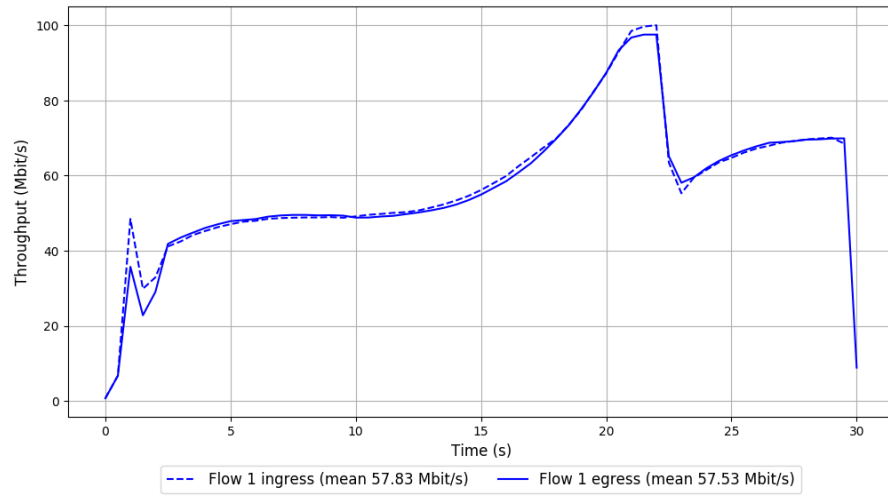


Run 1: Statistics of TCP Cubic

Start at: 2018-01-02 00:54:19
End at: 2018-01-02 00:54:49
Local clock offset: -1.584 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2018-01-02 03:59:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 57.53 Mbit/s
95th percentile per-packet one-way delay: 104.901 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 57.53 Mbit/s
95th percentile per-packet one-way delay: 104.901 ms
Loss rate: 0.50%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

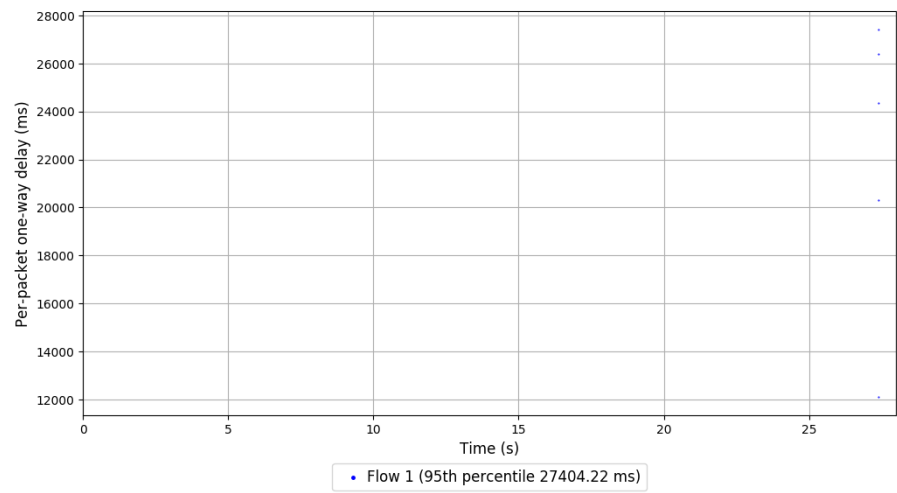
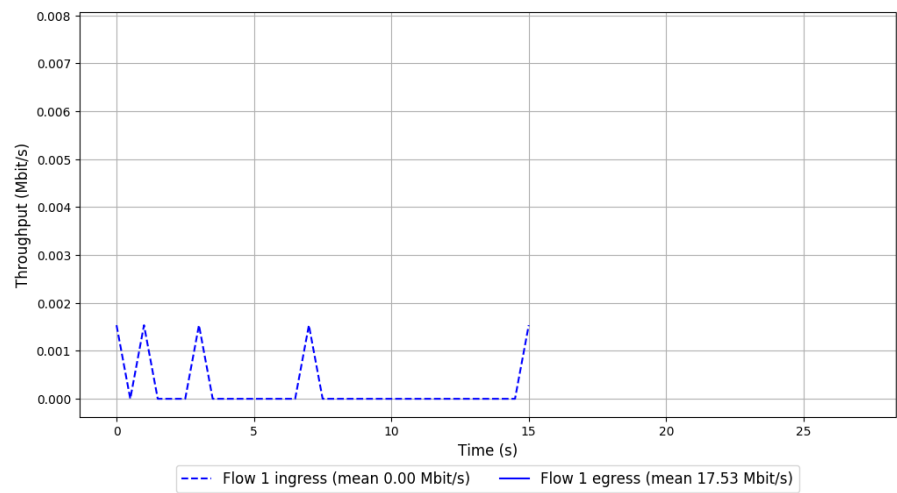
Start at: 2018-01-02 01:12:36

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

Local clock offset: -1.271 ms

Remote clock offset: 0.778 ms

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

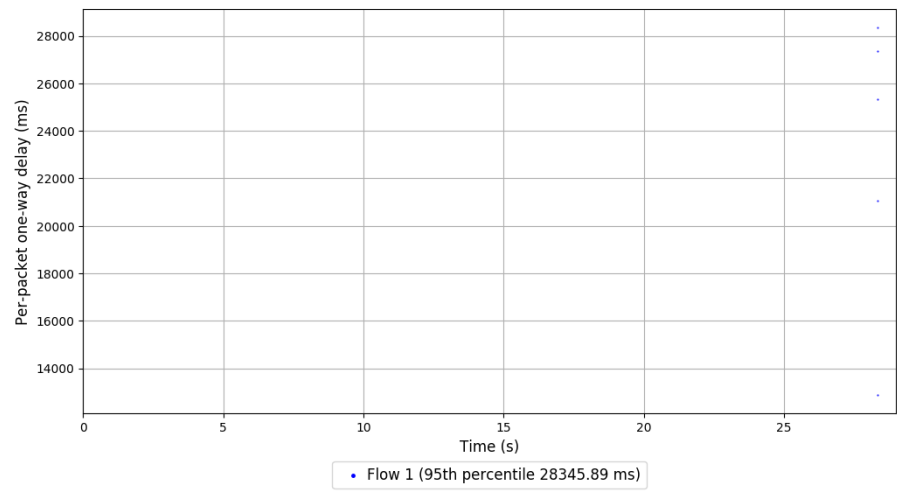
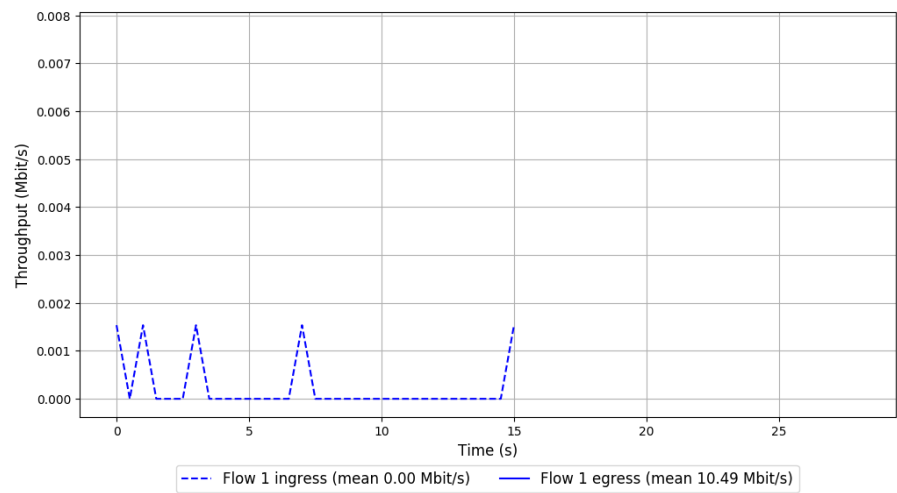
Start at: 2018-01-02 01:30:46

End at: 2018-01-02 01:31:16

Local clock offset: -0.999 ms

Remote clock offset: 1.622 ms

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

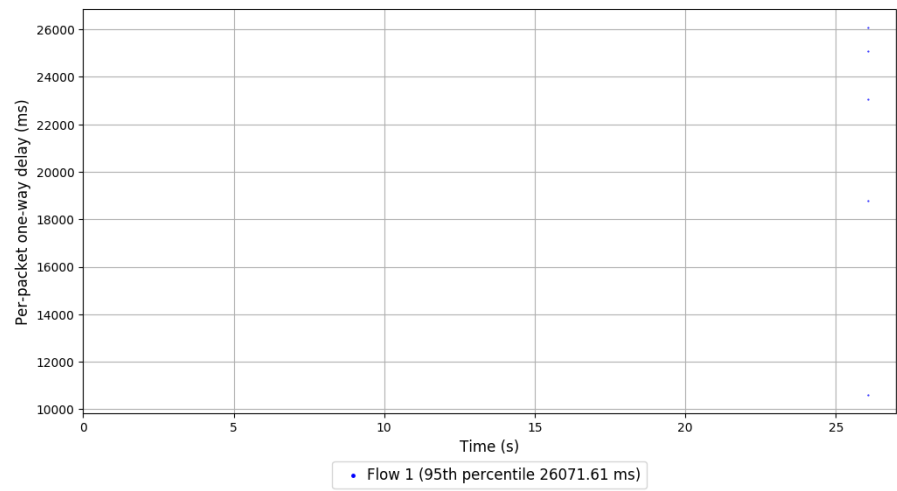
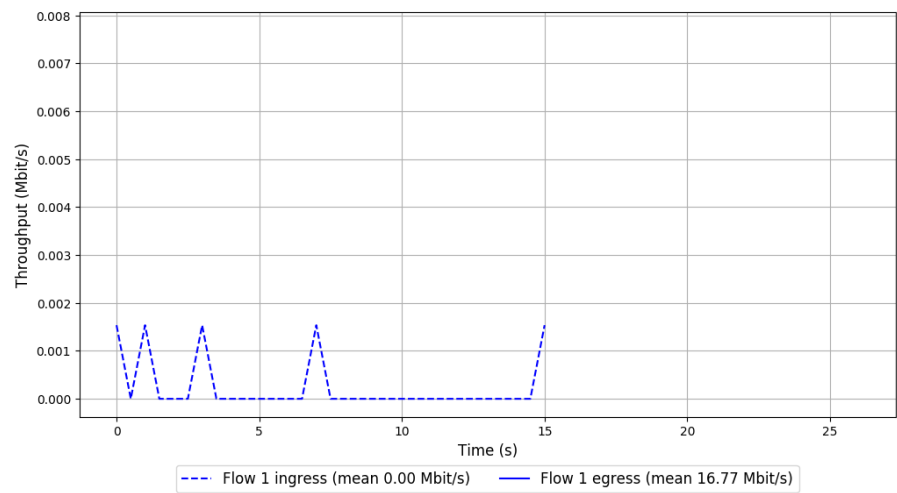
Start at: 2018-01-02 01:48:56

End at: 2018-01-02 01:49:26

Local clock offset: -0.652 ms

Remote clock offset: -0.197 ms

Run 4: Report of TCP Cubic — Data Link

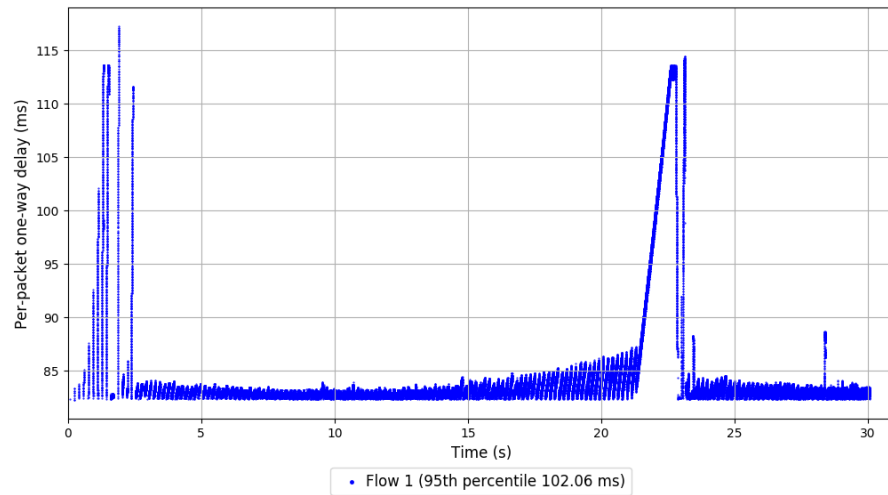
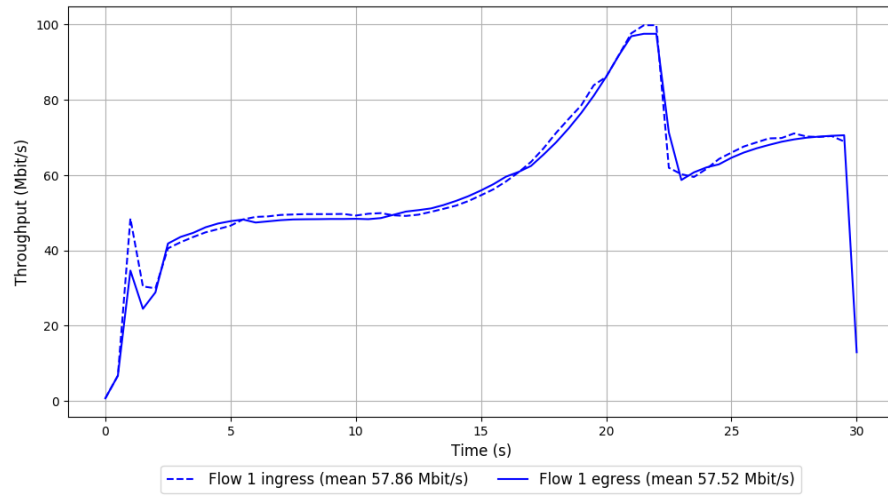


Run 5: Statistics of TCP Cubic

Start at: 2018-01-02 02:07:08
End at: 2018-01-02 02:07:38
Local clock offset: -0.644 ms
Remote clock offset: -4.922 ms

Below is generated by plot.py at 2018-01-02 03:59:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 57.52 Mbit/s
95th percentile per-packet one-way delay: 102.061 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 57.52 Mbit/s
95th percentile per-packet one-way delay: 102.061 ms
Loss rate: 0.60%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

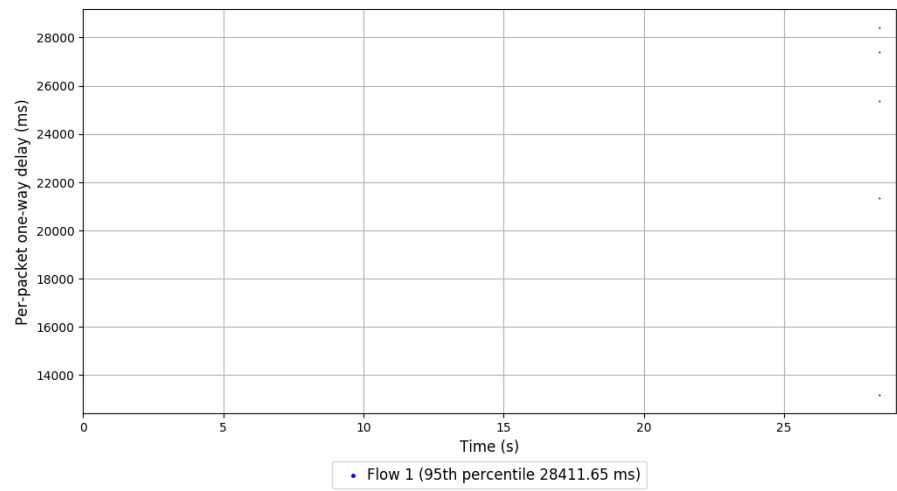
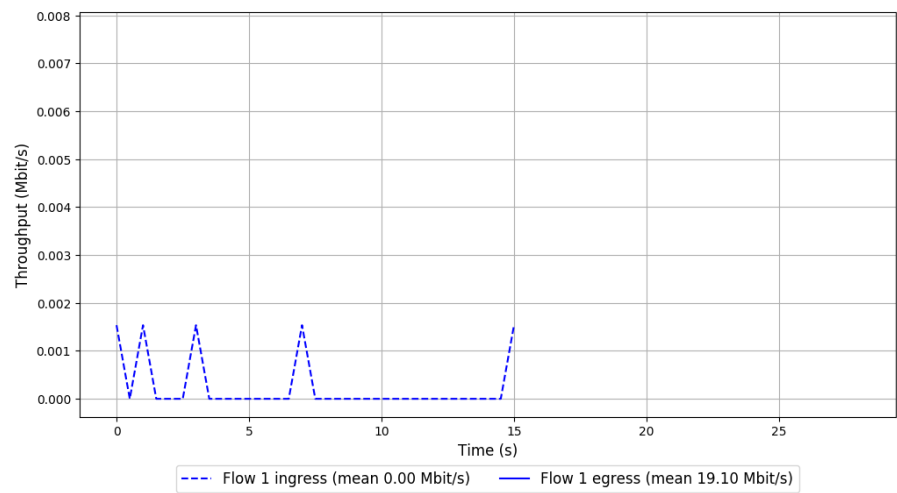
Start at: 2018-01-02 02:25:23

End at: 2018-01-02 02:25:53

Local clock offset: -0.63 ms

Remote clock offset: -4.966 ms

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

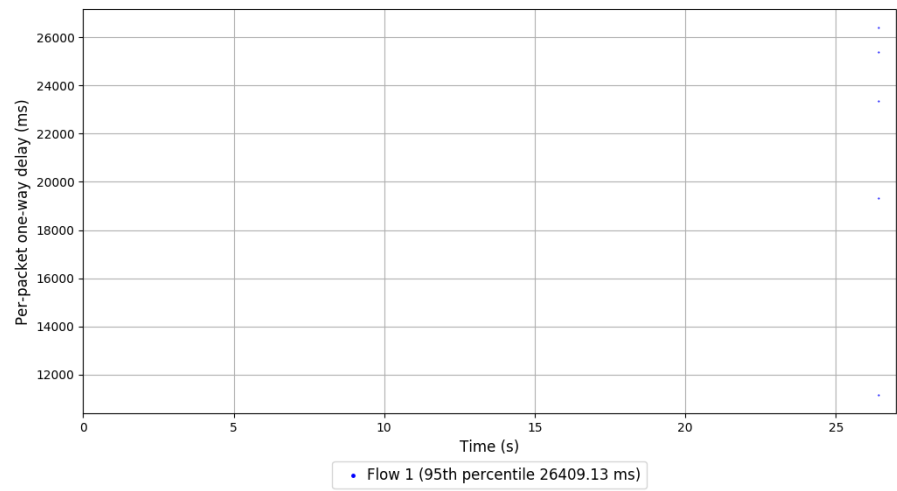
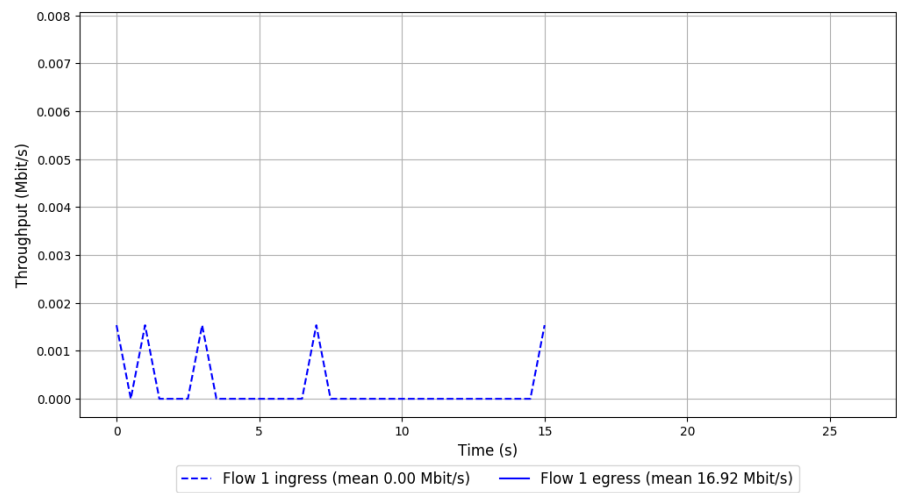
Start at: 2018-01-02 02:43:35

End at: 2018-01-02 02:44:05

Local clock offset: -0.653 ms

Remote clock offset: 0.6 ms

Run 7: Report of TCP Cubic — Data Link

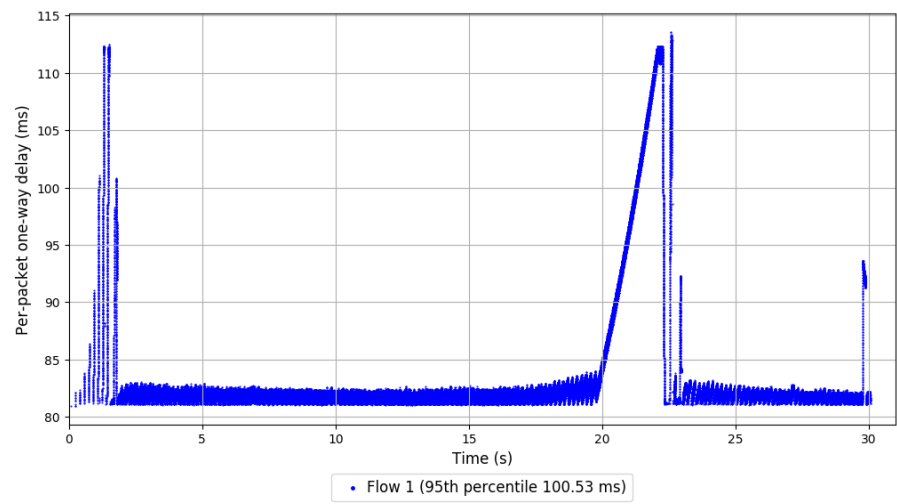
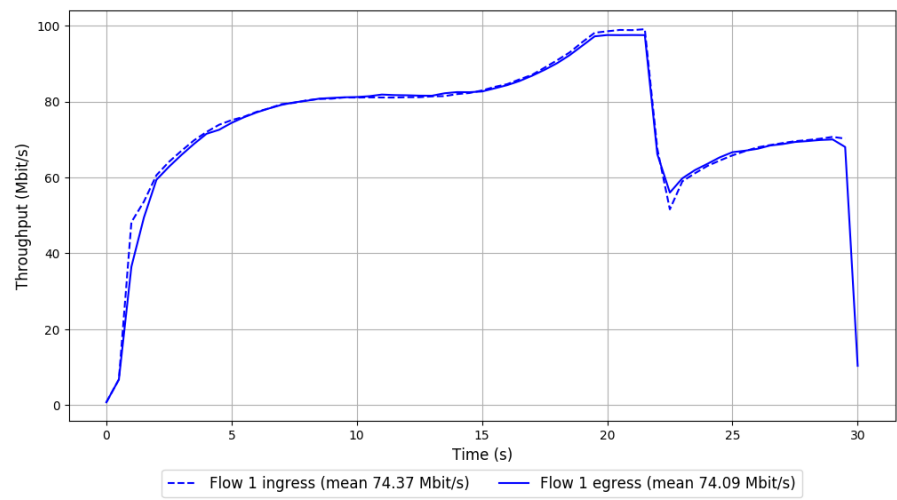


Run 8: Statistics of TCP Cubic

Start at: 2018-01-02 03:01:45
End at: 2018-01-02 03:02:16
Local clock offset: -0.786 ms
Remote clock offset: -5.853 ms

Below is generated by plot.py at 2018-01-02 03:59:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.09 Mbit/s
95th percentile per-packet one-way delay: 100.531 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 74.09 Mbit/s
95th percentile per-packet one-way delay: 100.531 ms
Loss rate: 0.37%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

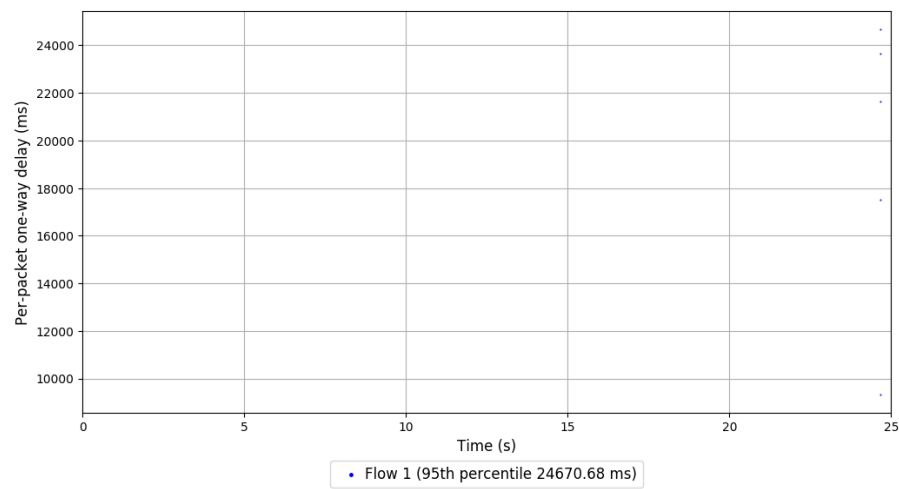
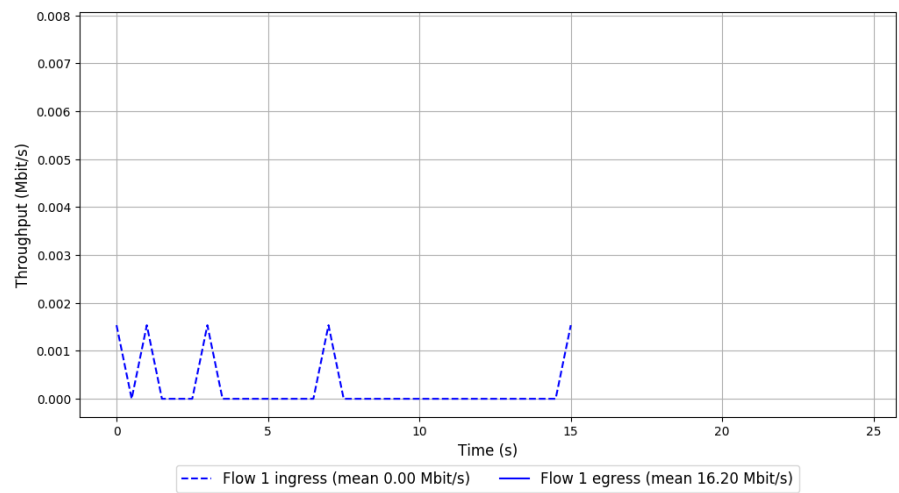
Start at: 2018-01-02 03:20:01

End at: 2018-01-02 03:20:31

Local clock offset: -0.787 ms

Remote clock offset: 0.778 ms

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-02 03:38:12

End at: 2018-01-02 03:38:42

Local clock offset: -0.99 ms

Remote clock offset: 0.076 ms

Below is generated by plot.py at 2018-01-02 03:59:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.30 Mbit/s

95th percentile per-packet one-way delay: 107.554 ms

Loss rate: 0.27%

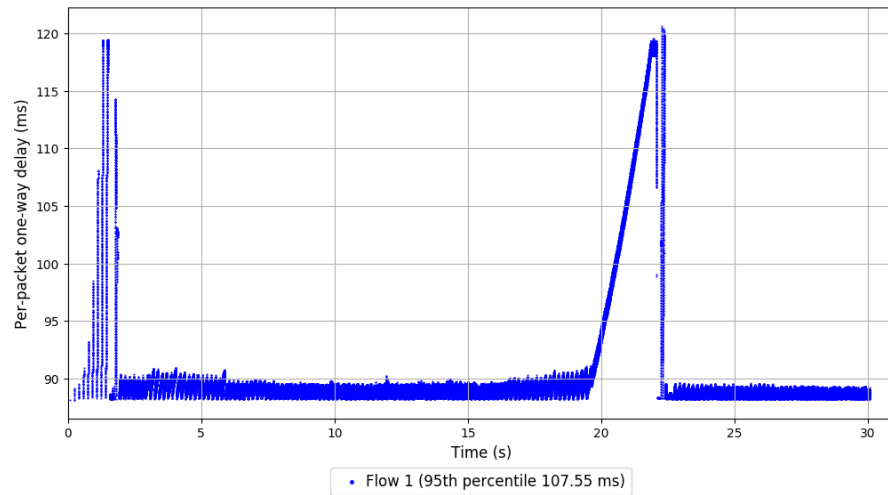
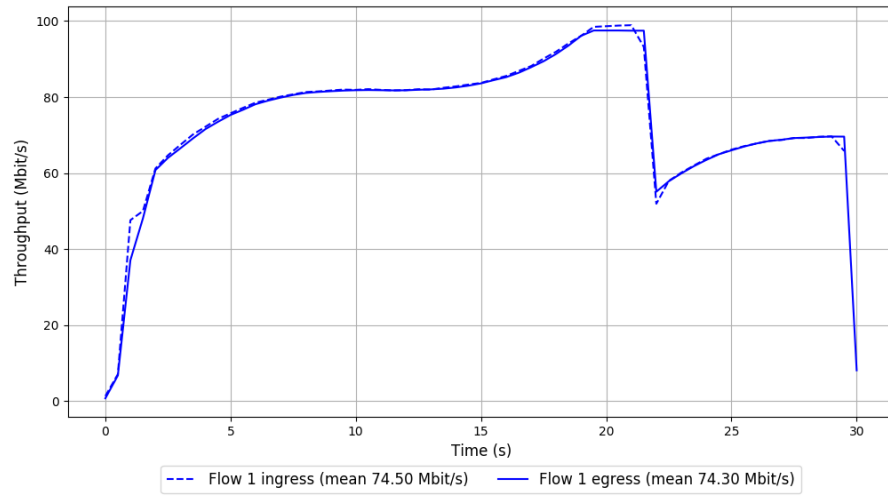
-- Flow 1:

Average throughput: 74.30 Mbit/s

95th percentile per-packet one-way delay: 107.554 ms

Loss rate: 0.27%

Run 10: Report of TCP Cubic — Data Link

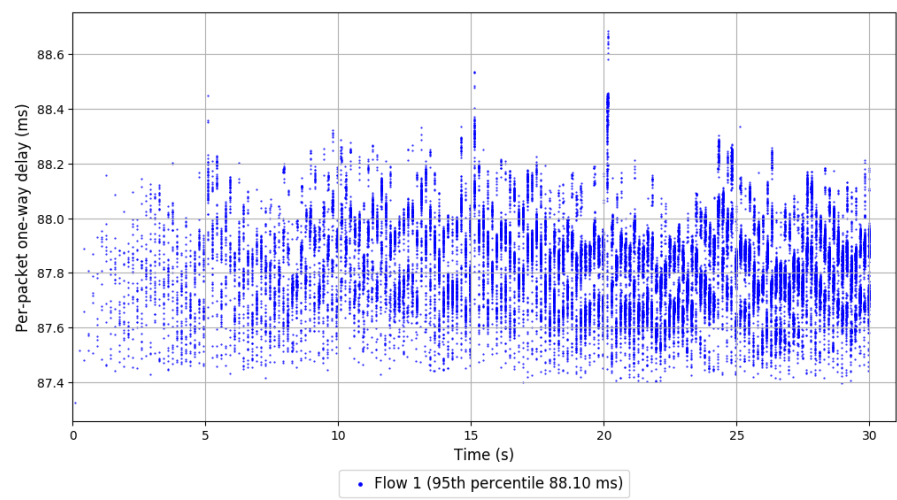
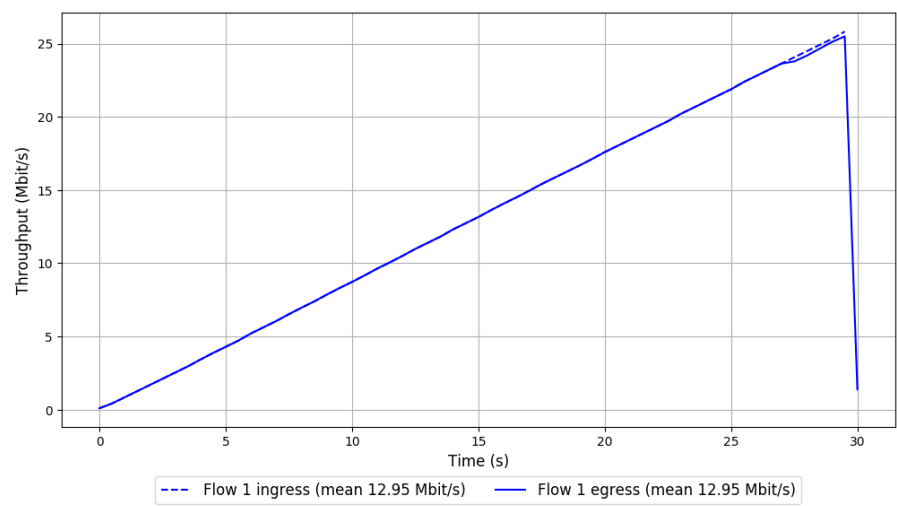


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-02 00:53:08
End at: 2018-01-02 00:53:38
Local clock offset: -1.529 ms
Remote clock offset: 0.765 ms

# Below is generated by plot.py at 2018-01-02 03:59:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.95 Mbit/s
95th percentile per-packet one-way delay: 88.103 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.95 Mbit/s
95th percentile per-packet one-way delay: 88.103 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

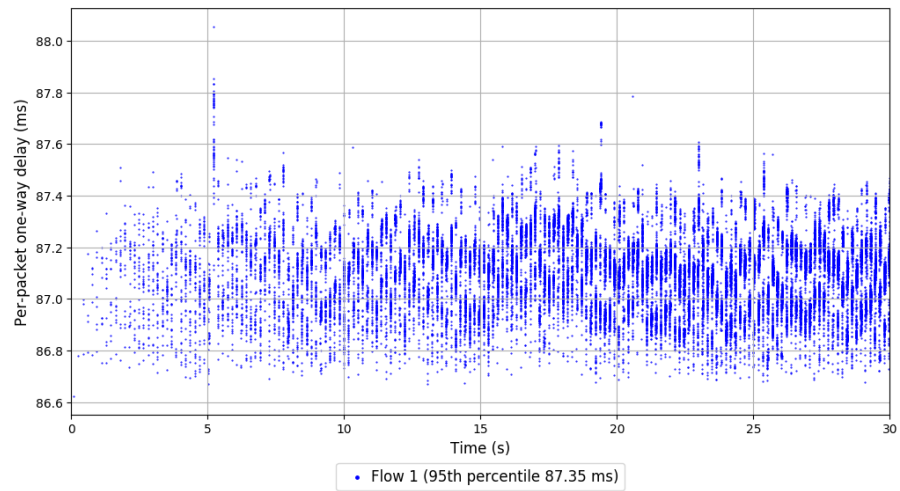
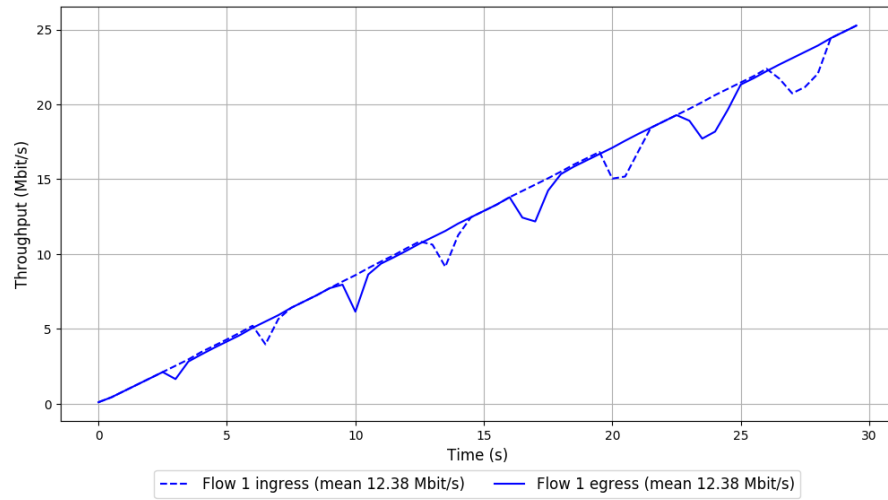


Run 2: Statistics of LEDBAT

Start at: 2018-01-02 01:11:25
End at: 2018-01-02 01:11:55
Local clock offset: -1.268 ms
Remote clock offset: -0.073 ms

Below is generated by plot.py at 2018-01-02 03:59:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.38 Mbit/s
95th percentile per-packet one-way delay: 87.347 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.38 Mbit/s
95th percentile per-packet one-way delay: 87.347 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

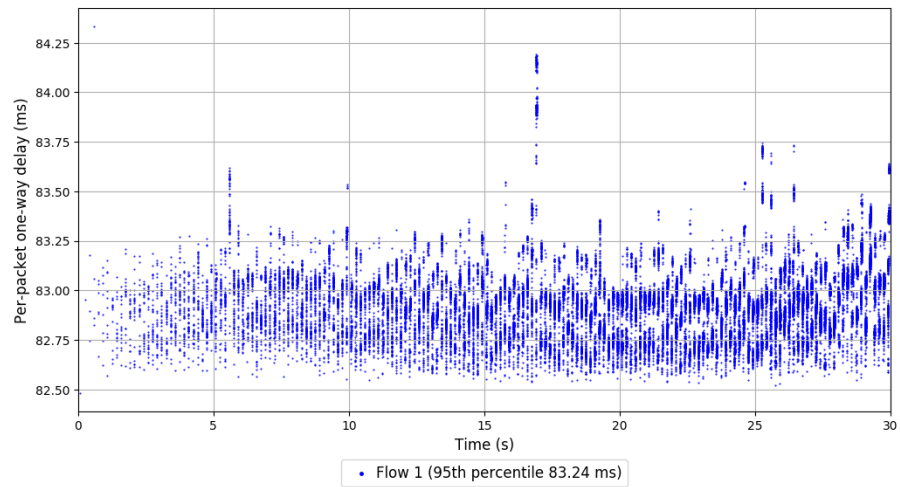
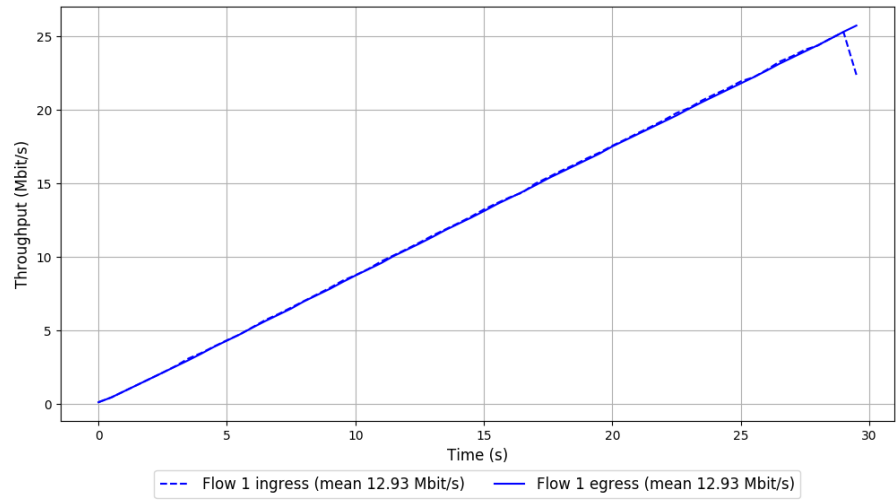


Run 3: Statistics of LEDBAT

Start at: 2018-01-02 01:29:36
End at: 2018-01-02 01:30:06
Local clock offset: -1.053 ms
Remote clock offset: -4.077 ms

Below is generated by plot.py at 2018-01-02 03:59:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.93 Mbit/s
95th percentile per-packet one-way delay: 83.237 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.93 Mbit/s
95th percentile per-packet one-way delay: 83.237 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-02 01:47:45

End at: 2018-01-02 01:48:15

Local clock offset: -0.593 ms

Remote clock offset: 1.066 ms

Below is generated by plot.py at 2018-01-02 03:59:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.67 Mbit/s

95th percentile per-packet one-way delay: 89.044 ms

Loss rate: 0.00%

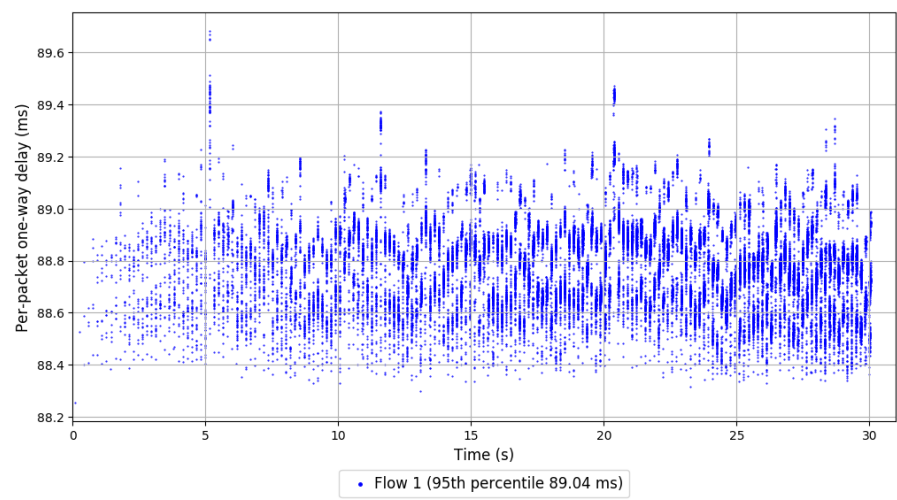
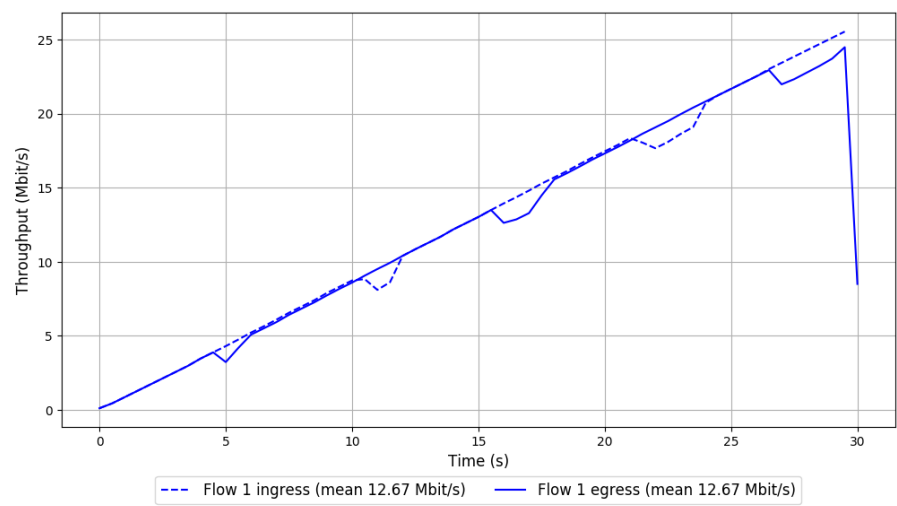
-- Flow 1:

Average throughput: 12.67 Mbit/s

95th percentile per-packet one-way delay: 89.044 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

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

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

Local clock offset: -0.625 ms

Remote clock offset: -0.93 ms

Below is generated by plot.py at 2018-01-02 03:59:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.65 Mbit/s

95th percentile per-packet one-way delay: 86.827 ms

Loss rate: 0.00%

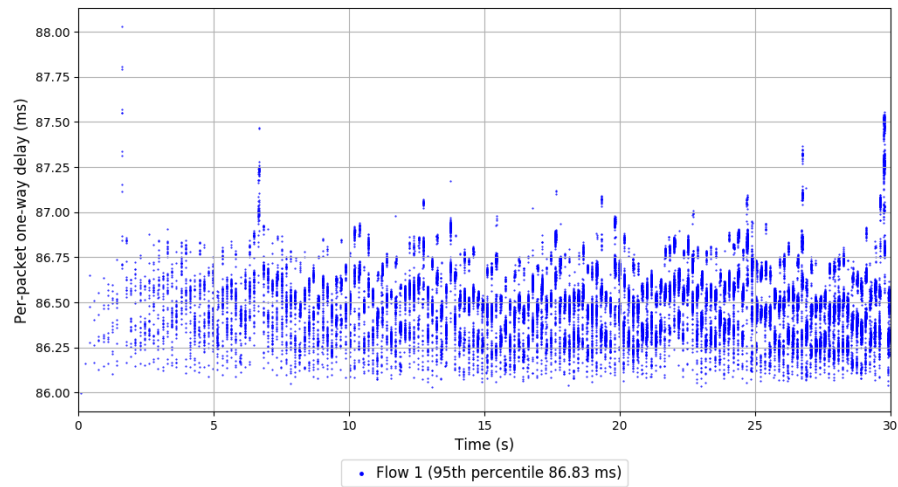
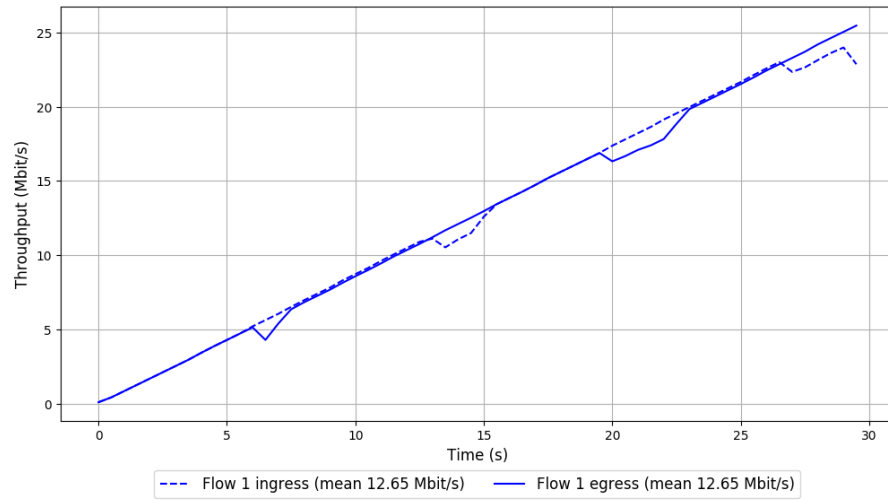
-- Flow 1:

Average throughput: 12.65 Mbit/s

95th percentile per-packet one-way delay: 86.827 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-02 02:24:13

End at: 2018-01-02 02:24:43

Local clock offset: -0.609 ms

Remote clock offset: 0.455 ms

Below is generated by plot.py at 2018-01-02 03:59:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.58 Mbit/s

95th percentile per-packet one-way delay: 88.715 ms

Loss rate: 0.06%

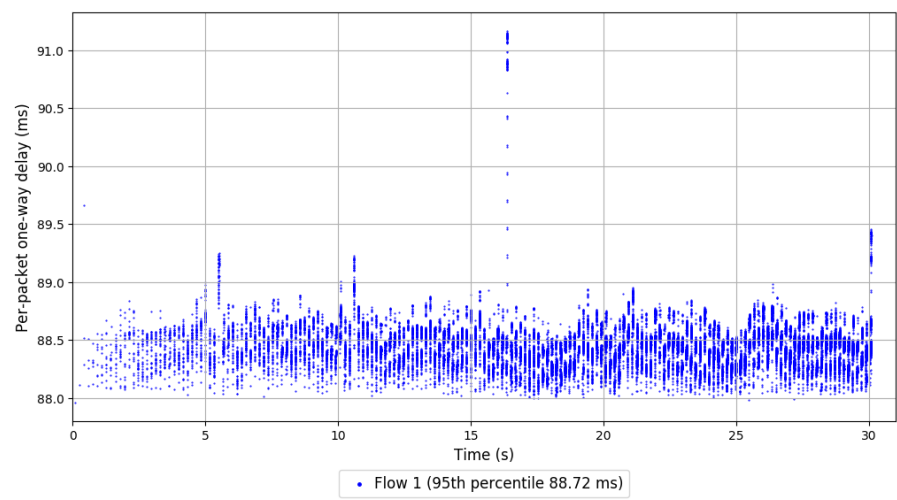
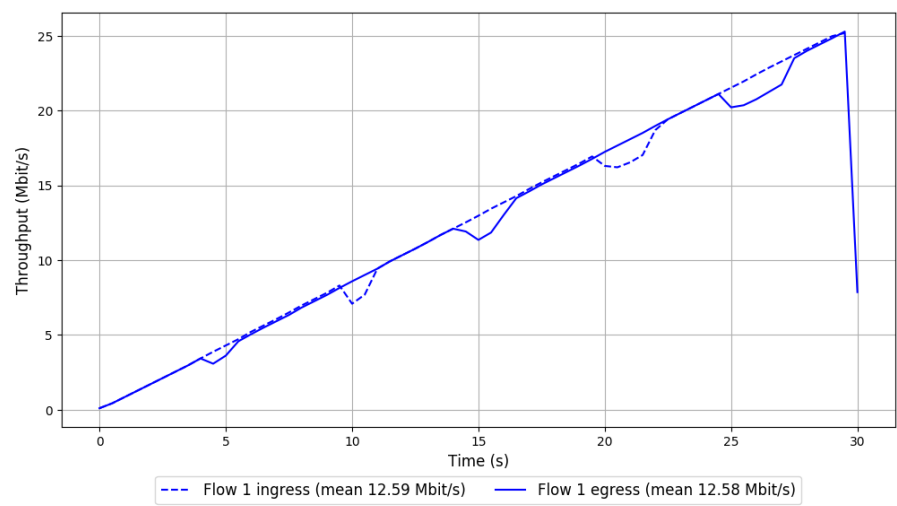
-- Flow 1:

Average throughput: 12.58 Mbit/s

95th percentile per-packet one-way delay: 88.715 ms

Loss rate: 0.06%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-02 02:42:24

End at: 2018-01-02 02:42:54

Local clock offset: -0.63 ms

Remote clock offset: -5.55 ms

Below is generated by plot.py at 2018-01-02 03:59:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.34 Mbit/s

95th percentile per-packet one-way delay: 83.182 ms

Loss rate: 0.00%

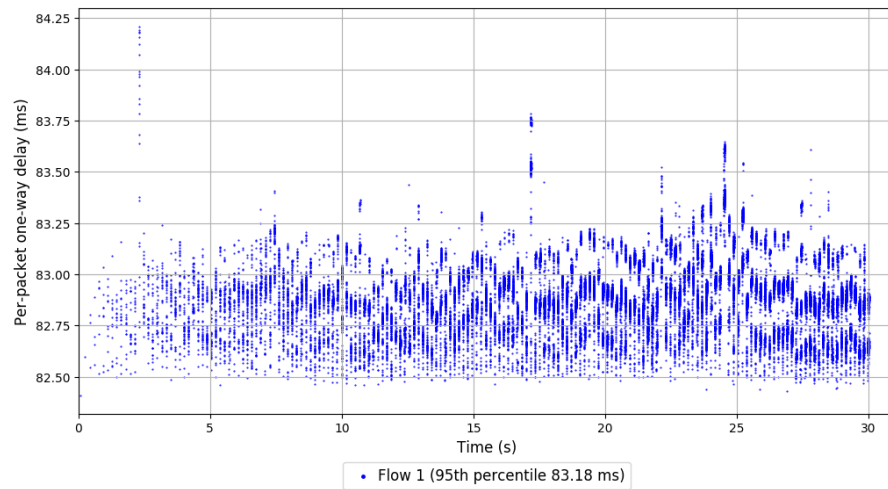
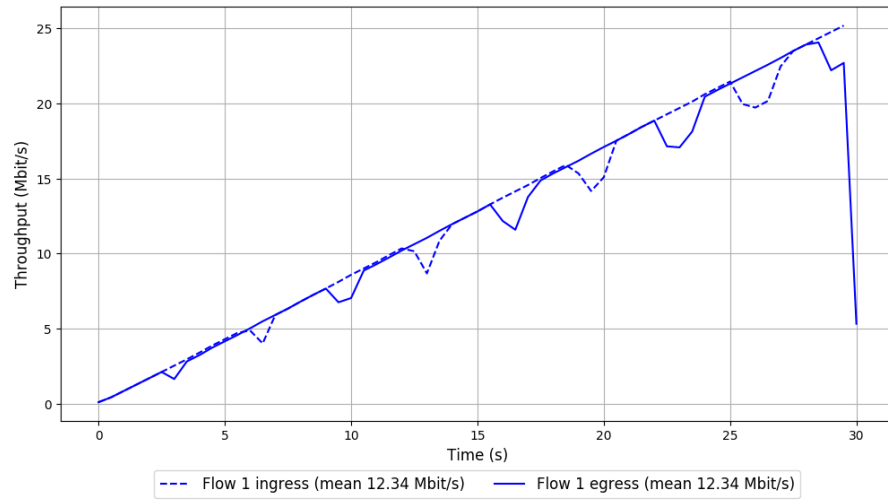
-- Flow 1:

Average throughput: 12.34 Mbit/s

95th percentile per-packet one-way delay: 83.182 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link

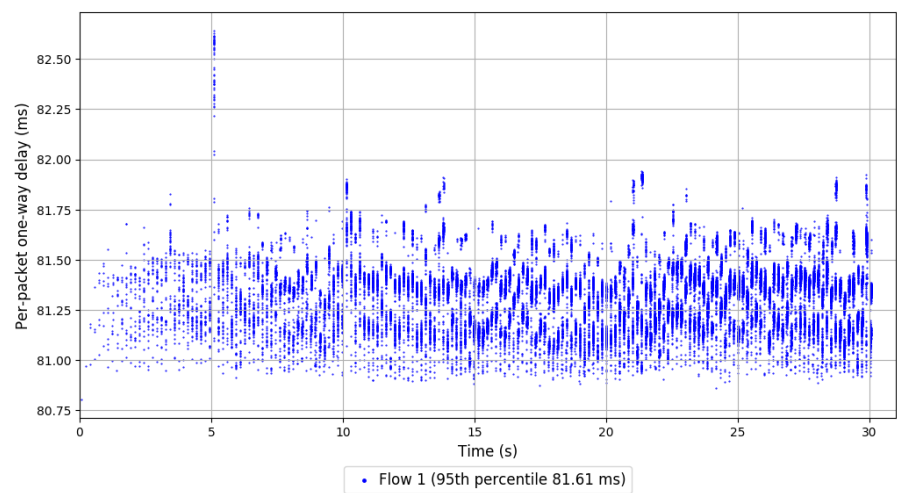
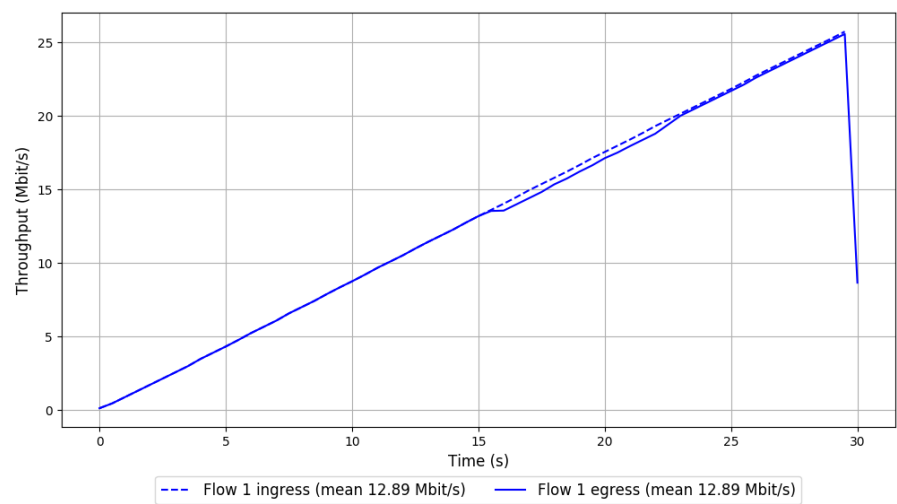


Run 8: Statistics of LEDBAT

Start at: 2018-01-02 03:00:35
End at: 2018-01-02 03:01:05
Local clock offset: -0.707 ms
Remote clock offset: -5.516 ms

Below is generated by plot.py at 2018-01-02 03:59:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.89 Mbit/s
95th percentile per-packet one-way delay: 81.613 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.89 Mbit/s
95th percentile per-packet one-way delay: 81.613 ms
Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link

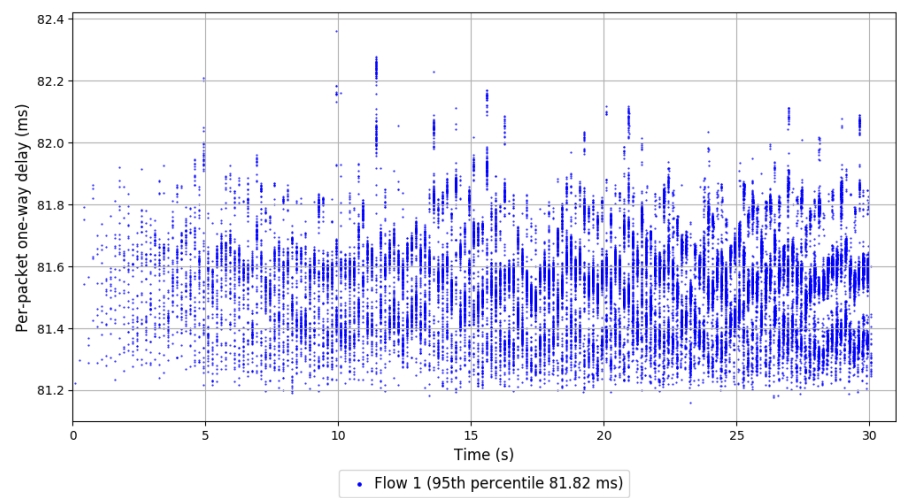
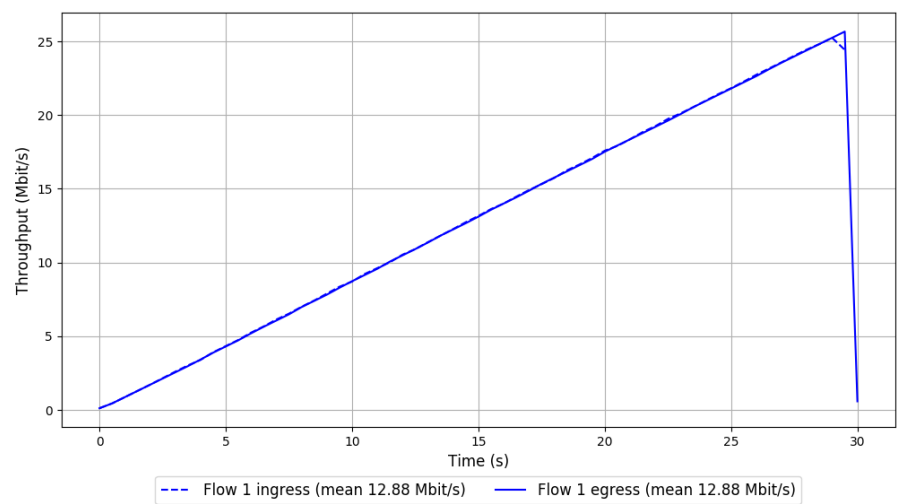


Run 9: Statistics of LEDBAT

Start at: 2018-01-02 03:18:51
End at: 2018-01-02 03:19:21
Local clock offset: -0.749 ms
Remote clock offset: -5.228 ms

Below is generated by plot.py at 2018-01-02 03:59:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.88 Mbit/s
95th percentile per-packet one-way delay: 81.816 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.88 Mbit/s
95th percentile per-packet one-way delay: 81.816 ms
Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link

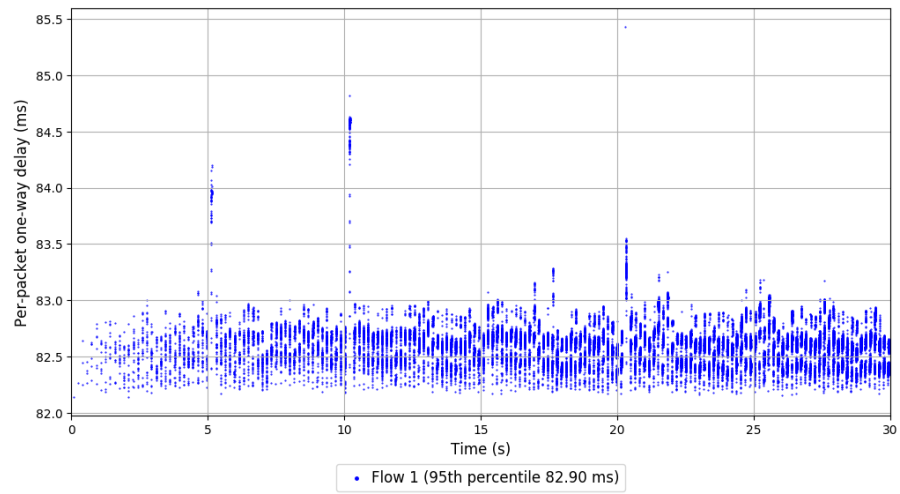
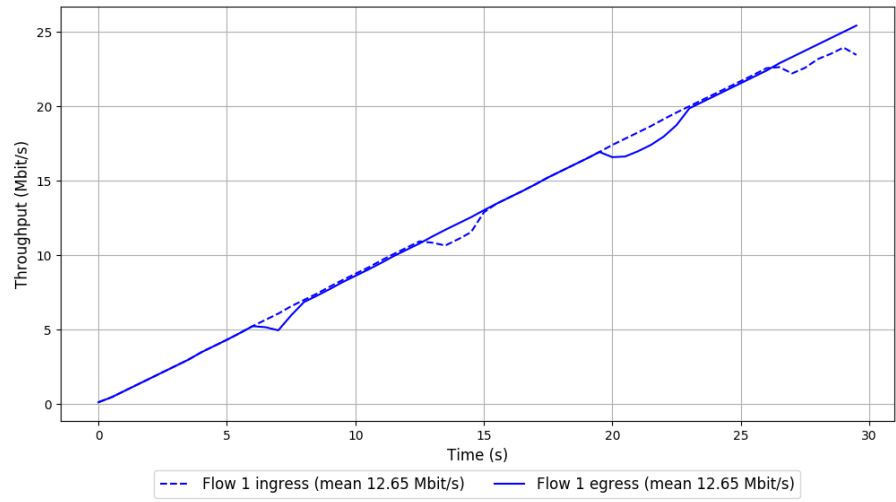


Run 10: Statistics of LEDBAT

Start at: 2018-01-02 03:37:01
End at: 2018-01-02 03:37:31
Local clock offset: -0.903 ms
Remote clock offset: -5.932 ms

Below is generated by plot.py at 2018-01-02 03:59:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.65 Mbit/s
95th percentile per-packet one-way delay: 82.898 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.65 Mbit/s
95th percentile per-packet one-way delay: 82.898 ms
Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

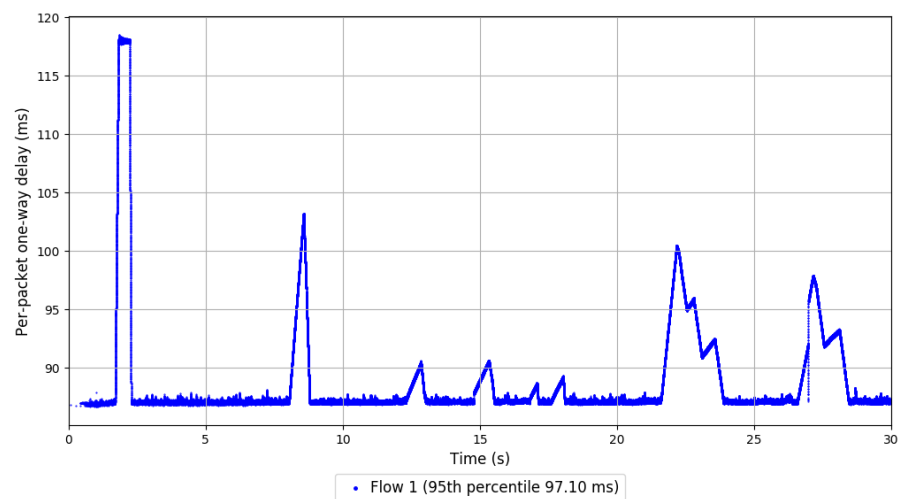
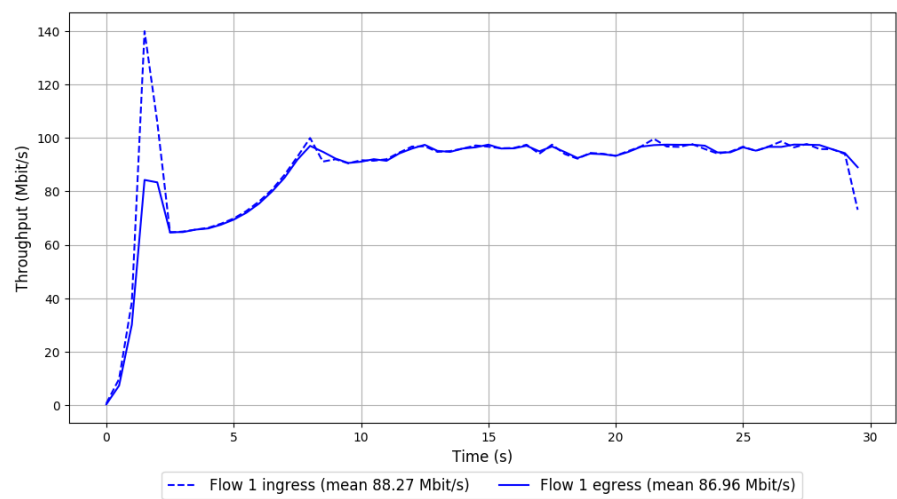


```
Run 1: Statistics of PCC

Start at: 2018-01-02 00:45:41
End at: 2018-01-02 00:46:11
Local clock offset: -1.404 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2018-01-02 04:00:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.96 Mbit/s
95th percentile per-packet one-way delay: 97.104 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 86.96 Mbit/s
95th percentile per-packet one-way delay: 97.104 ms
Loss rate: 1.49%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

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

End at: 2018-01-02 01:04:32

Local clock offset: -1.396 ms

Remote clock offset: 0.283 ms

Below is generated by plot.py at 2018-01-02 04:00:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.85 Mbit/s

95th percentile per-packet one-way delay: 98.968 ms

Loss rate: 1.73%

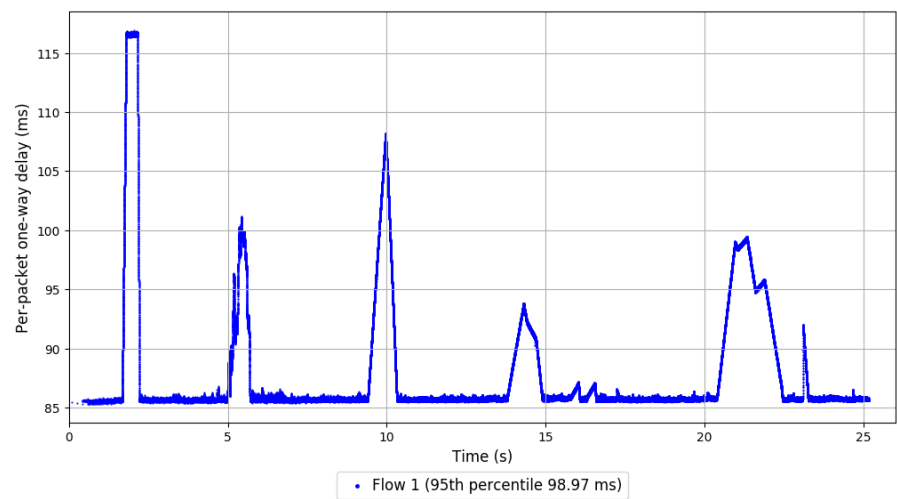
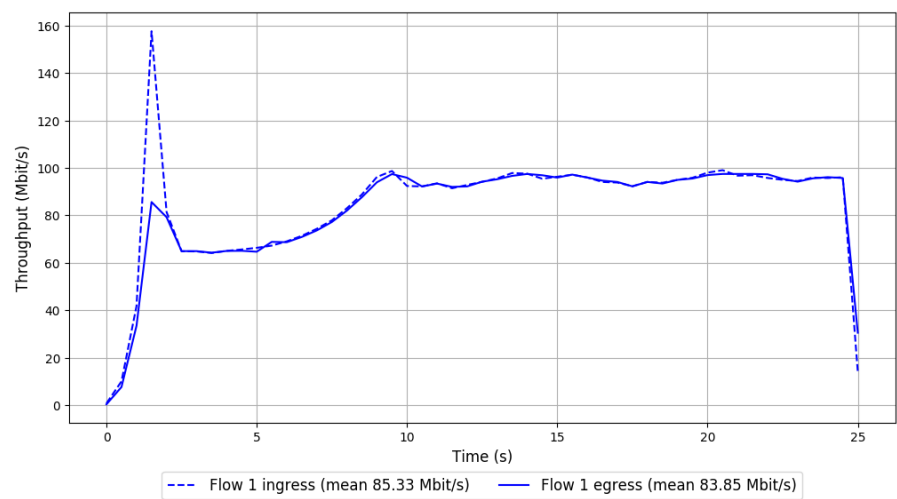
-- Flow 1:

Average throughput: 83.85 Mbit/s

95th percentile per-packet one-way delay: 98.968 ms

Loss rate: 1.73%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-02 01:22:13

End at: 2018-01-02 01:22:43

Local clock offset: -1.359 ms

Remote clock offset: -4.71 ms

Below is generated by plot.py at 2018-01-02 04:00:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.03 Mbit/s

95th percentile per-packet one-way delay: 97.345 ms

Loss rate: 1.41%

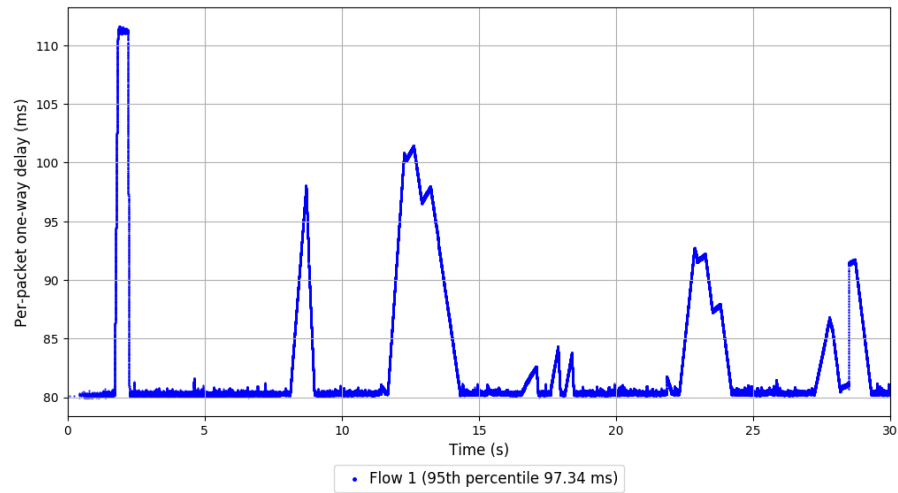
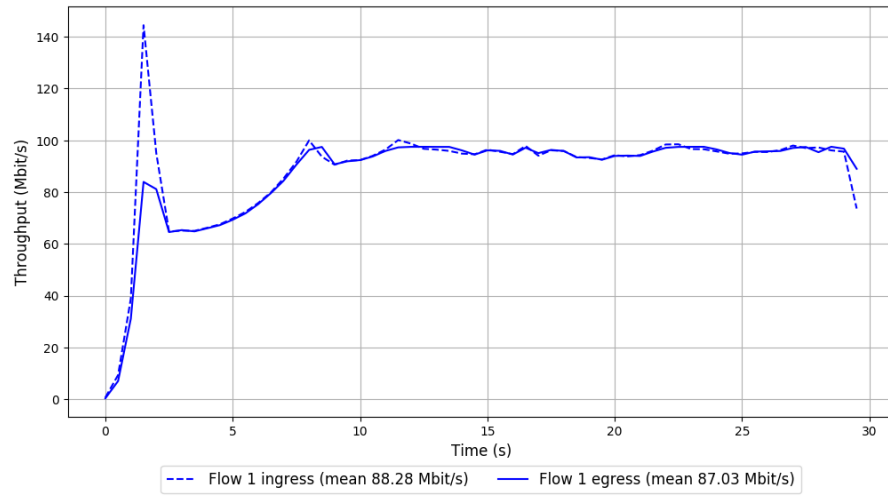
-- Flow 1:

Average throughput: 87.03 Mbit/s

95th percentile per-packet one-way delay: 97.345 ms

Loss rate: 1.41%

Run 3: Report of PCC — Data Link

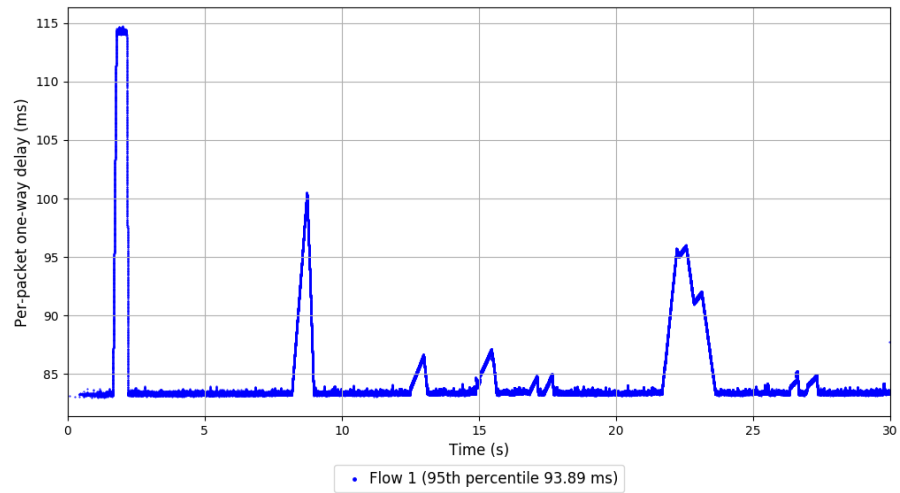
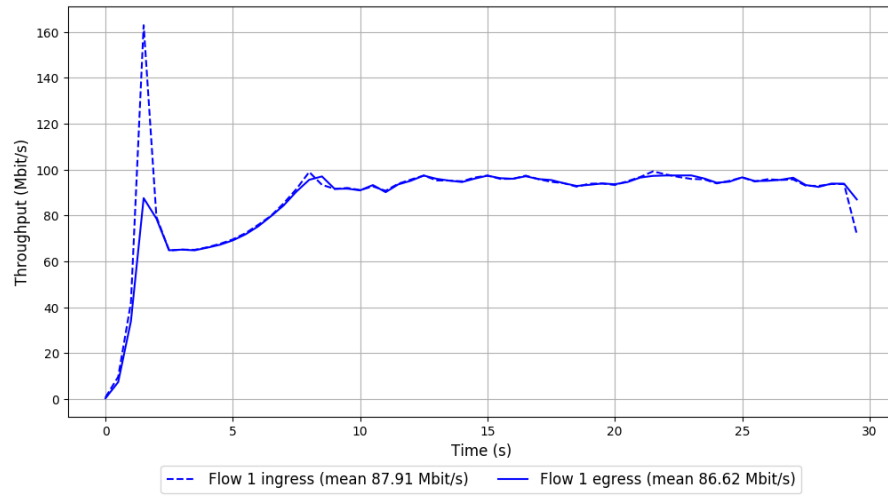


Run 4: Statistics of PCC

Start at: 2018-01-02 01:40:22
End at: 2018-01-02 01:40:52
Local clock offset: -0.72 ms
Remote clock offset: -4.032 ms

Below is generated by plot.py at 2018-01-02 04:00:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.62 Mbit/s
95th percentile per-packet one-way delay: 93.890 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 86.62 Mbit/s
95th percentile per-packet one-way delay: 93.890 ms
Loss rate: 1.46%

Run 4: Report of PCC — Data Link

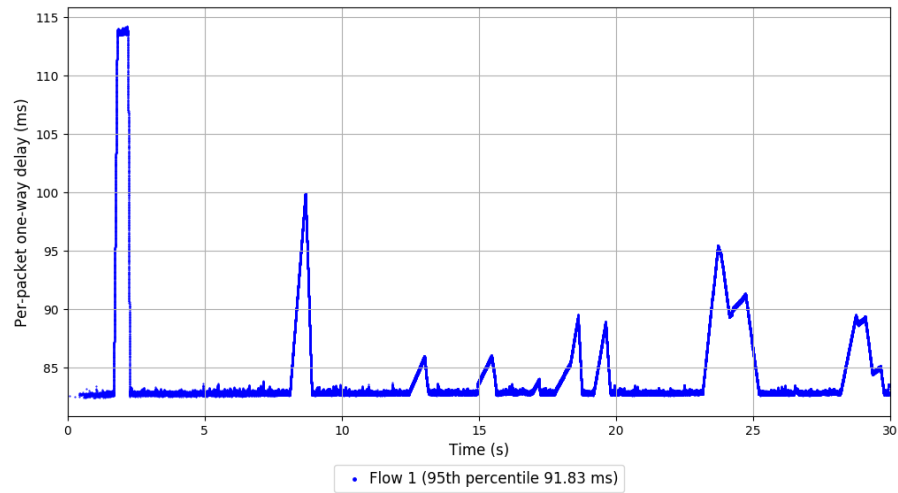
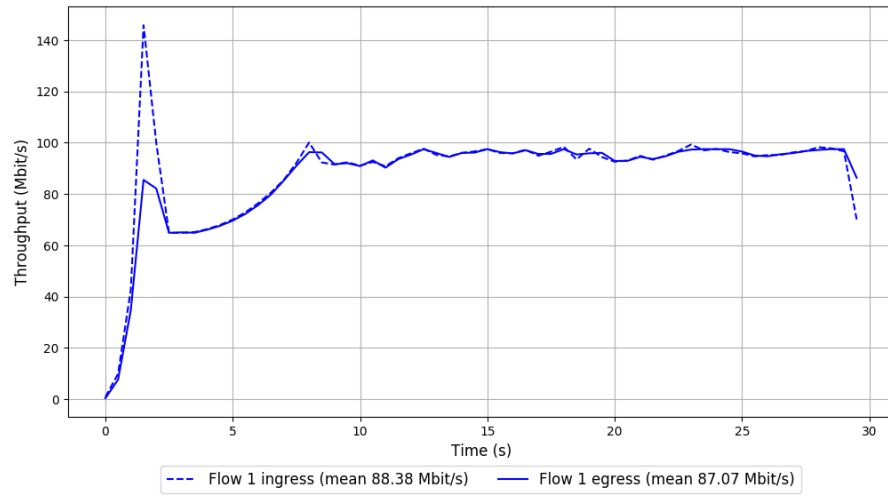


Run 5: Statistics of PCC

Start at: 2018-01-02 01:58:34
End at: 2018-01-02 01:59:04
Local clock offset: -0.598 ms
Remote clock offset: -4.879 ms

Below is generated by plot.py at 2018-01-02 04:00:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.07 Mbit/s
95th percentile per-packet one-way delay: 91.825 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 87.07 Mbit/s
95th percentile per-packet one-way delay: 91.825 ms
Loss rate: 1.48%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-02 02:16:49

End at: 2018-01-02 02:17:19

Local clock offset: -0.699 ms

Remote clock offset: 1.586 ms

Below is generated by plot.py at 2018-01-02 04:00:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.23 Mbit/s

95th percentile per-packet one-way delay: 103.622 ms

Loss rate: 1.42%

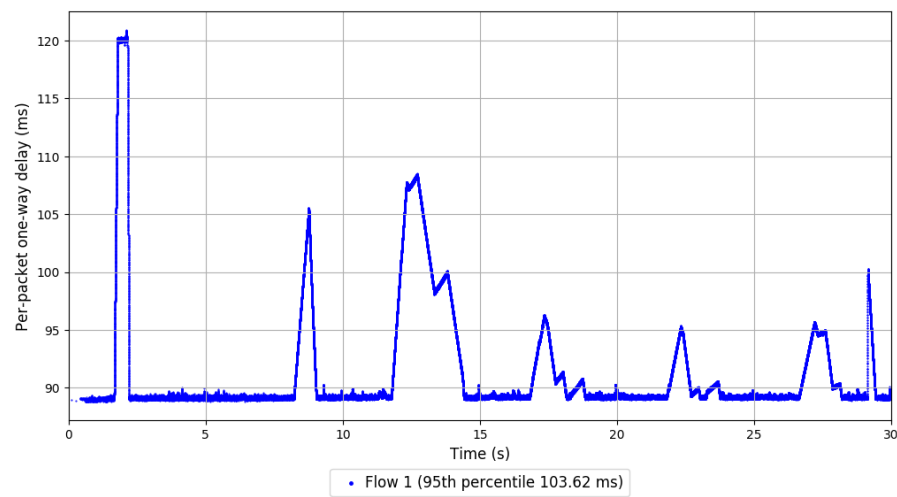
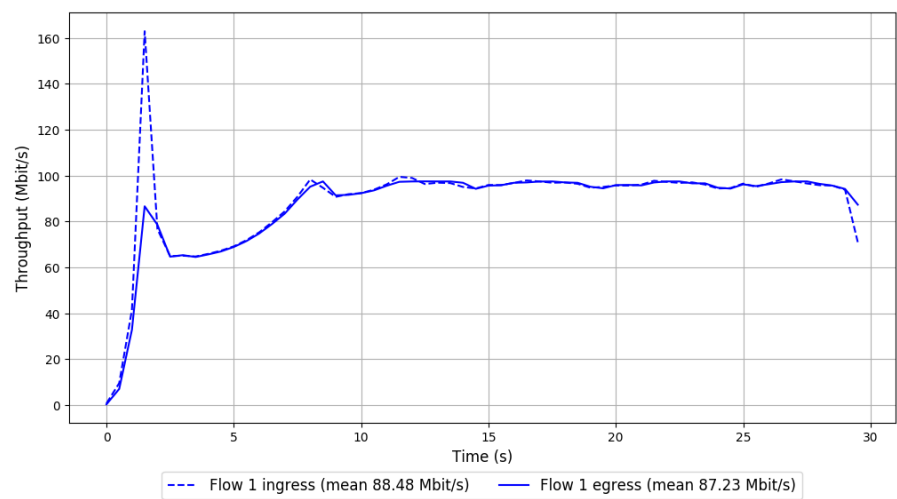
-- Flow 1:

Average throughput: 87.23 Mbit/s

95th percentile per-packet one-way delay: 103.622 ms

Loss rate: 1.42%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

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

End at: 2018-01-02 02:35:31

Local clock offset: -0.692 ms

Remote clock offset: -0.26 ms

Below is generated by plot.py at 2018-01-02 04:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.30 Mbit/s

95th percentile per-packet one-way delay: 104.208 ms

Loss rate: 1.47%

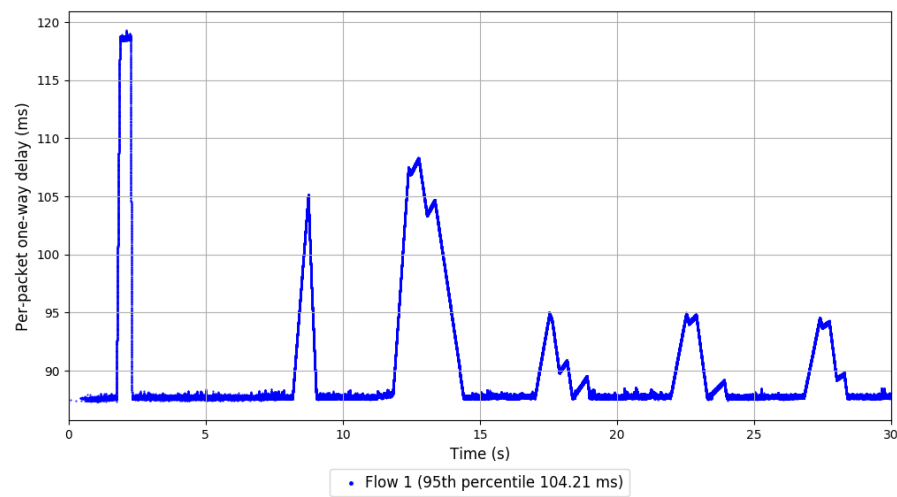
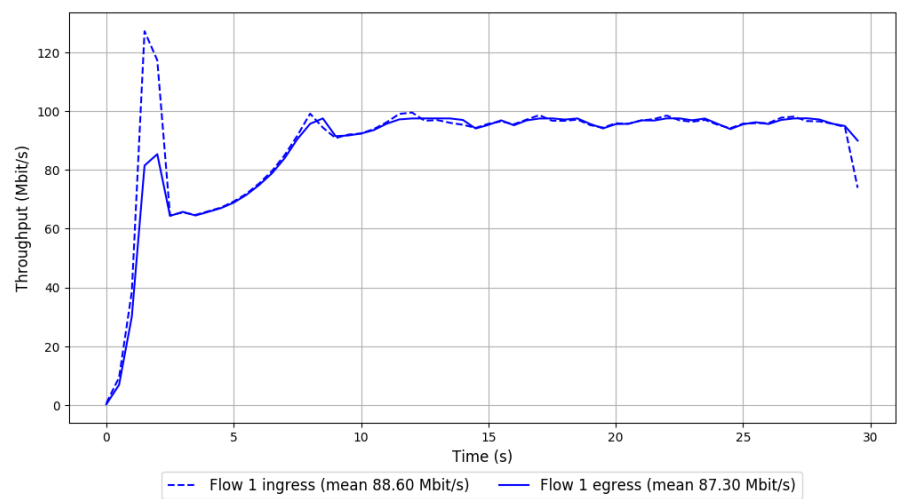
-- Flow 1:

Average throughput: 87.30 Mbit/s

95th percentile per-packet one-way delay: 104.208 ms

Loss rate: 1.47%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-02 02:53:12

End at: 2018-01-02 02:53:43

Local clock offset: -0.718 ms

Remote clock offset: 0.765 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.25 Mbit/s

95th percentile per-packet one-way delay: 103.842 ms

Loss rate: 1.45%

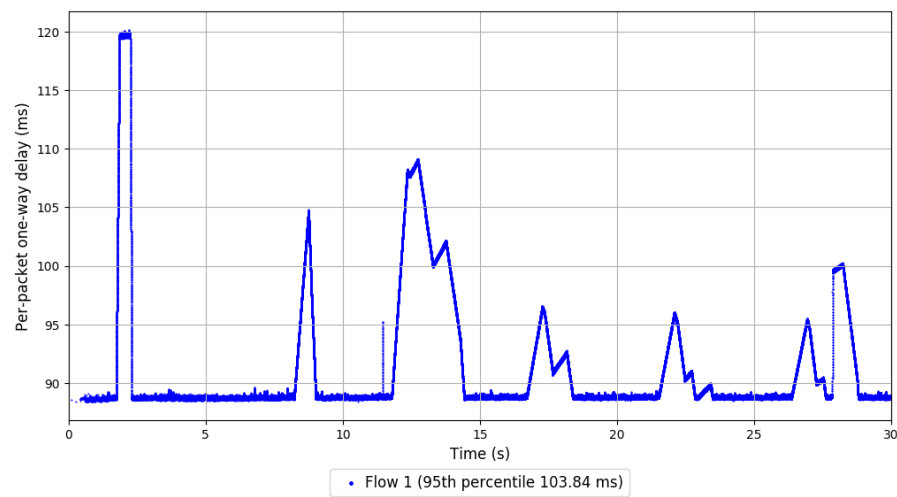
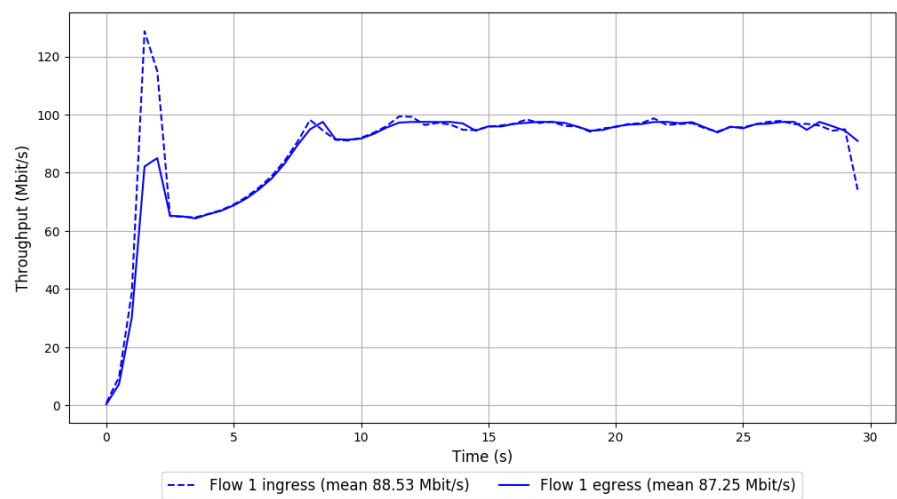
-- Flow 1:

Average throughput: 87.25 Mbit/s

95th percentile per-packet one-way delay: 103.842 ms

Loss rate: 1.45%

Run 8: Report of PCC — Data Link

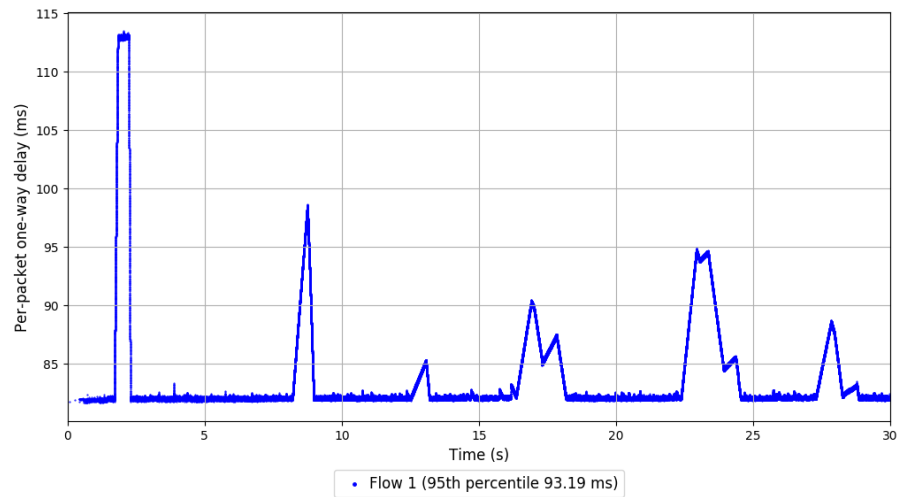
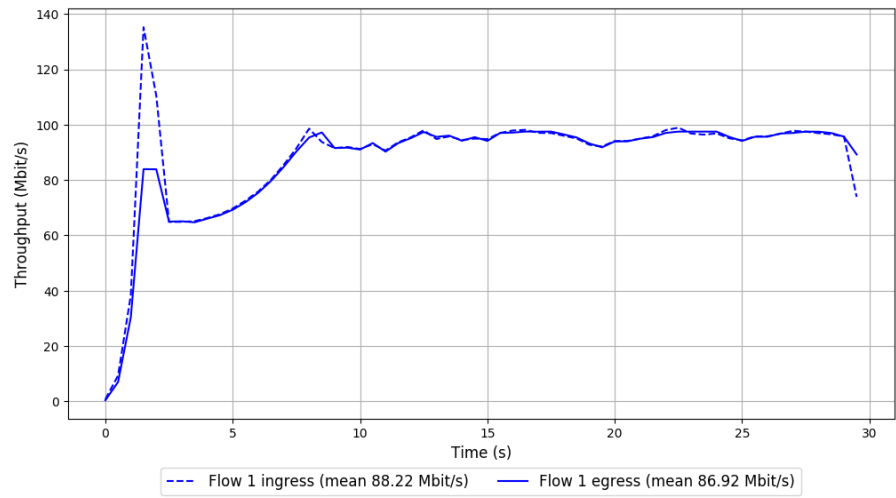


Run 9: Statistics of PCC

Start at: 2018-01-02 03:11:27
End at: 2018-01-02 03:11:57
Local clock offset: -0.809 ms
Remote clock offset: -6.475 ms

Below is generated by plot.py at 2018-01-02 04:01:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.92 Mbit/s
95th percentile per-packet one-way delay: 93.194 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 86.92 Mbit/s
95th percentile per-packet one-way delay: 93.194 ms
Loss rate: 1.48%

Run 9: Report of PCC — Data Link

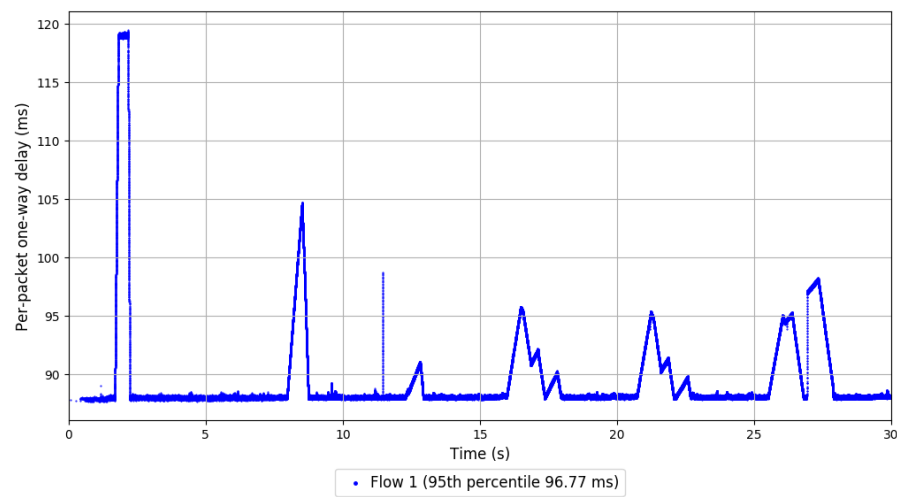
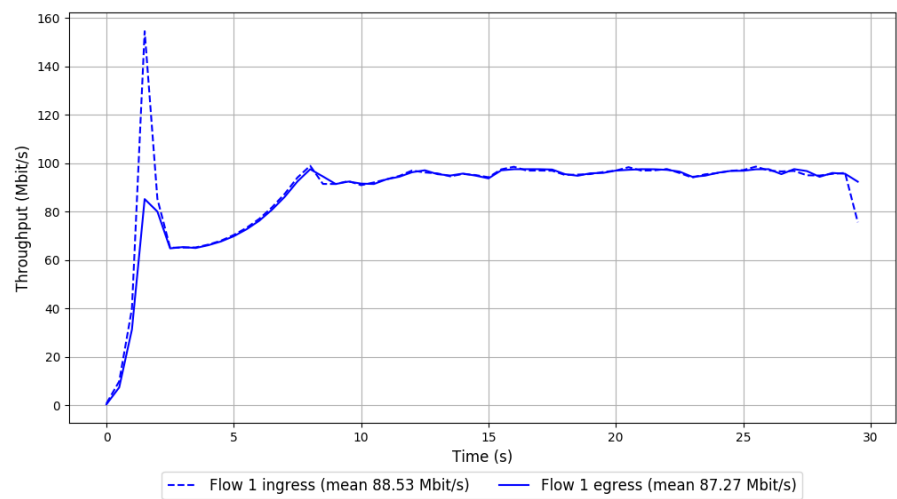


Run 10: Statistics of PCC

Start at: 2018-01-02 03:29:38
End at: 2018-01-02 03:30:08
Local clock offset: -0.852 ms
Remote clock offset: -0.142 ms

Below is generated by plot.py at 2018-01-02 04:02:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.27 Mbit/s
95th percentile per-packet one-way delay: 96.770 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 87.27 Mbit/s
95th percentile per-packet one-way delay: 96.770 ms
Loss rate: 1.42%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

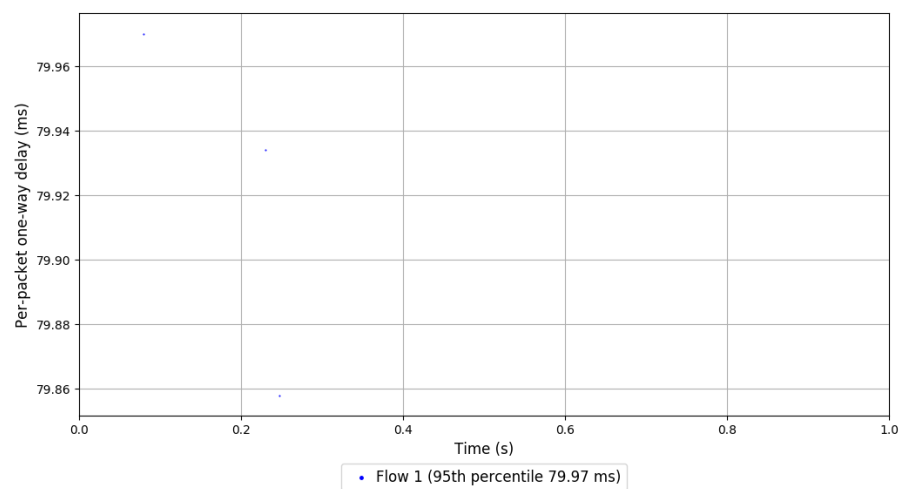
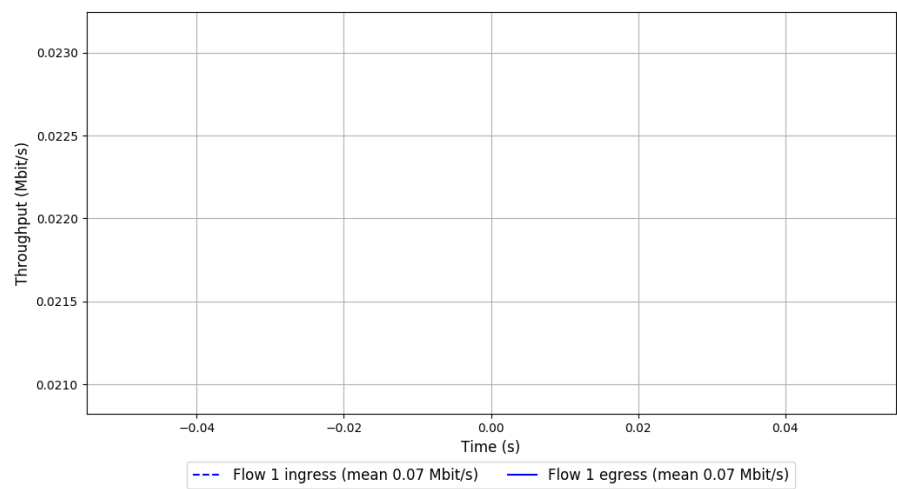
Start at: 2018-01-02 00:44:32

End at: 2018-01-02 00:45:02

Local clock offset: -1.311 ms

Remote clock offset: -4.924 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

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

End at: 2018-01-02 01:03:19

Local clock offset: -1.421 ms

Remote clock offset: 0.743 ms

Below is generated by plot.py at 2018-01-02 04:02:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.71 Mbit/s

95th percentile per-packet one-way delay: 104.202 ms

Loss rate: 0.25%

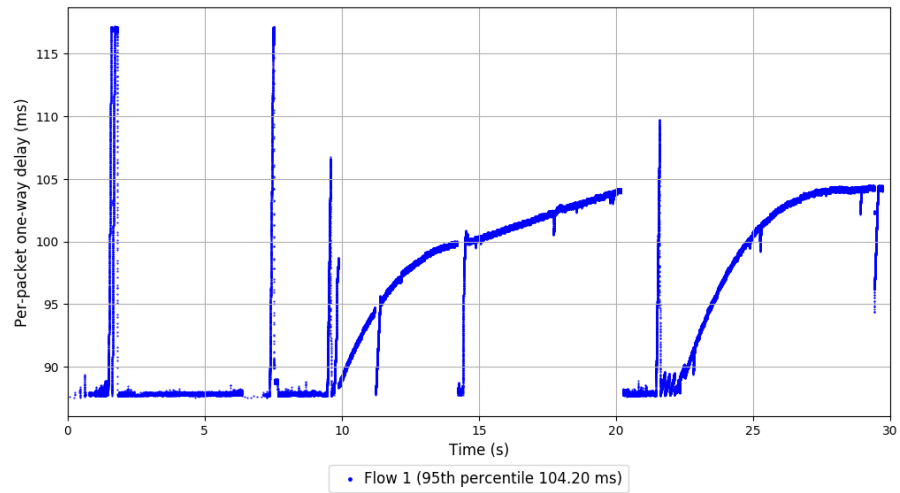
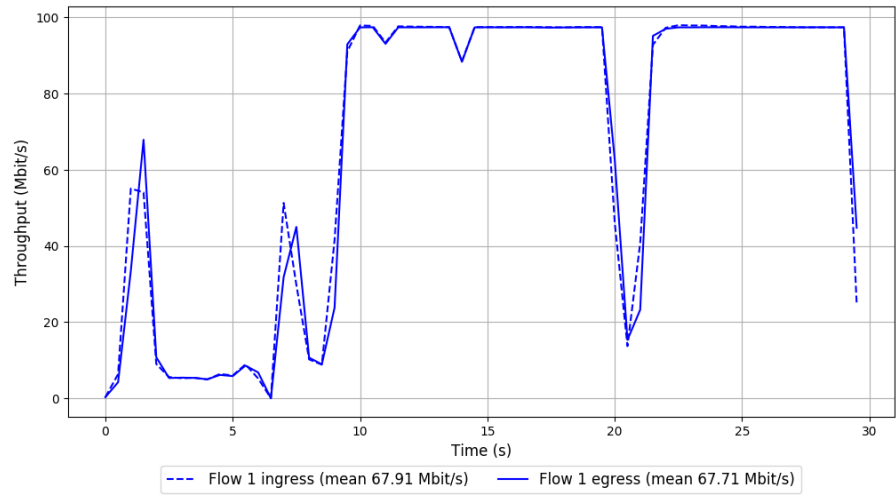
-- Flow 1:

Average throughput: 67.71 Mbit/s

95th percentile per-packet one-way delay: 104.202 ms

Loss rate: 0.25%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-02 01:21:00

End at: 2018-01-02 01:21:30

Local clock offset: -1.302 ms

Remote clock offset: 1.36 ms

Below is generated by plot.py at 2018-01-02 04:02:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.91 Mbit/s

95th percentile per-packet one-way delay: 108.031 ms

Loss rate: 0.28%

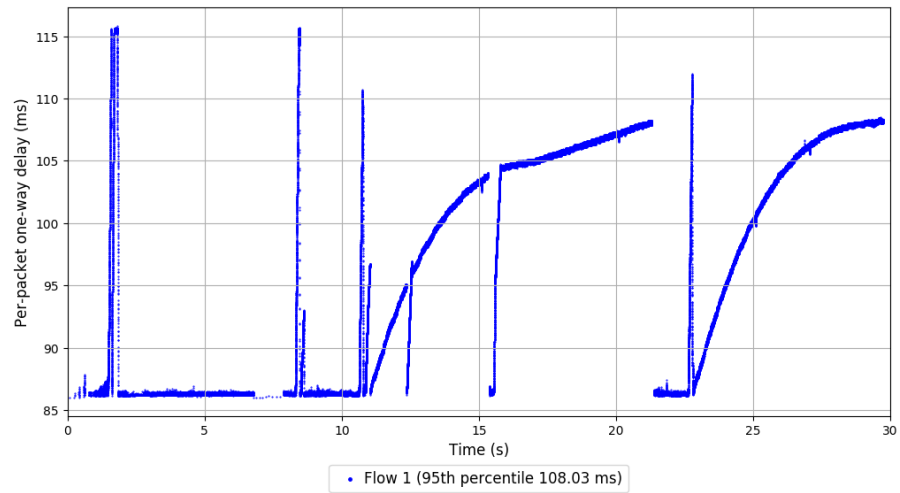
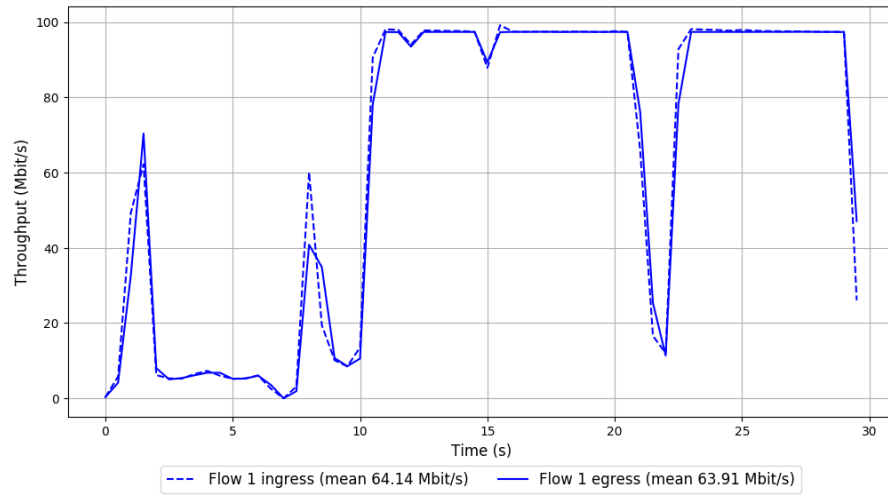
-- Flow 1:

Average throughput: 63.91 Mbit/s

95th percentile per-packet one-way delay: 108.031 ms

Loss rate: 0.28%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-02 01:39:12

End at: 2018-01-02 01:39:42

Local clock offset: -0.766 ms

Remote clock offset: 0.446 ms

Below is generated by plot.py at 2018-01-02 04:02:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.41 Mbit/s

95th percentile per-packet one-way delay: 86.243 ms

Loss rate: 0.00%

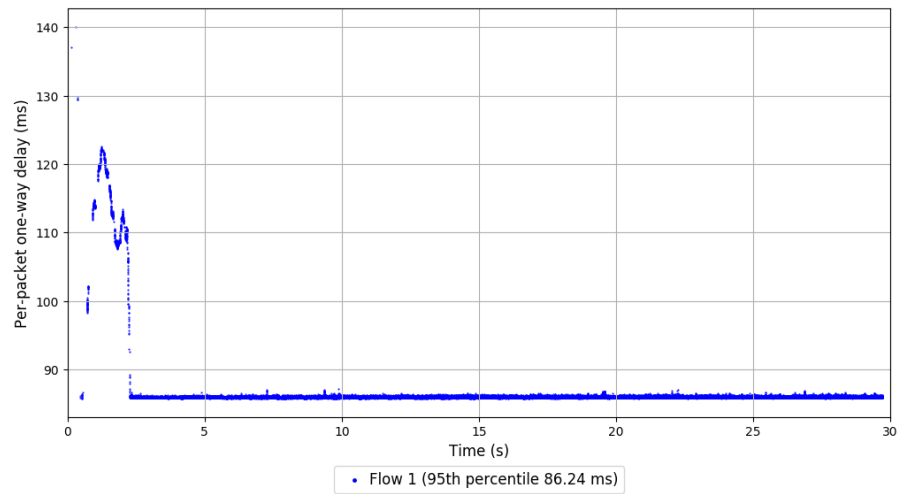
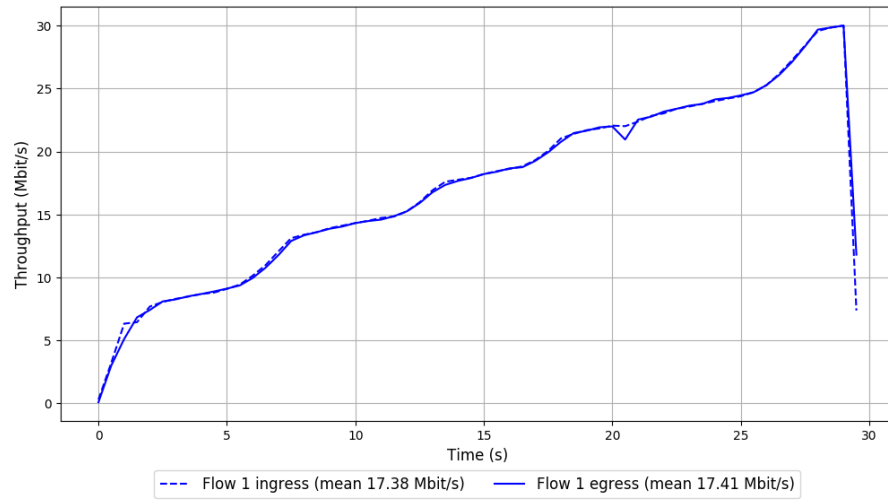
-- Flow 1:

Average throughput: 17.41 Mbit/s

95th percentile per-packet one-way delay: 86.243 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-02 01:57:21

End at: 2018-01-02 01:57:51

Local clock offset: -0.572 ms

Remote clock offset: -4.75 ms

Below is generated by plot.py at 2018-01-02 04:02:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.08 Mbit/s

95th percentile per-packet one-way delay: 98.590 ms

Loss rate: 0.21%

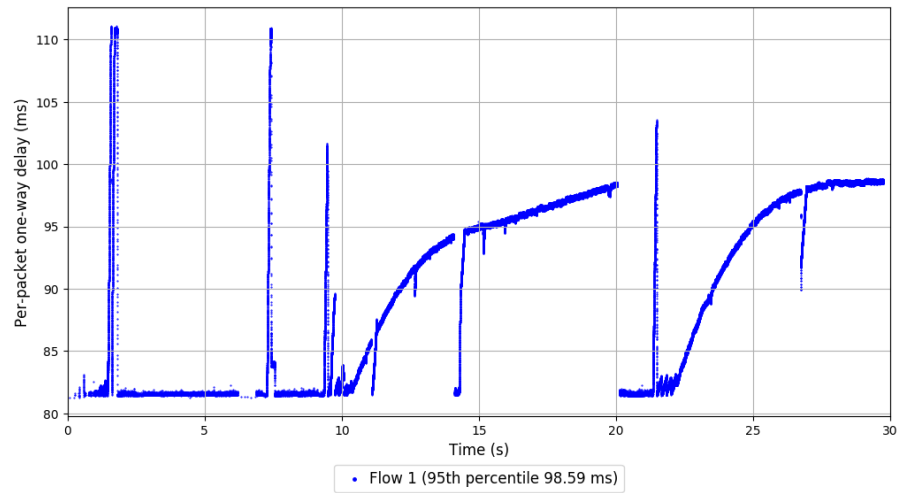
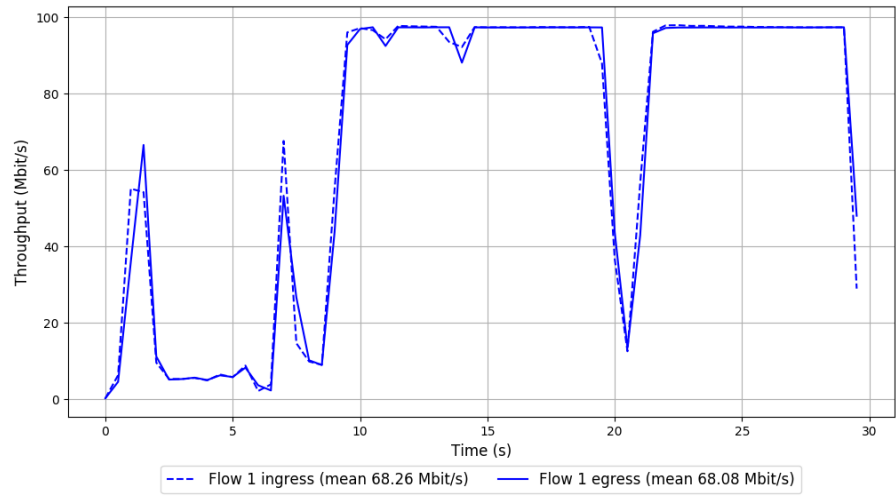
-- Flow 1:

Average throughput: 68.08 Mbit/s

95th percentile per-packet one-way delay: 98.590 ms

Loss rate: 0.21%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-02 02:15:36

End at: 2018-01-02 02:16:06

Local clock offset: -0.705 ms

Remote clock offset: 0.385 ms

Below is generated by plot.py at 2018-01-02 04:02:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.17 Mbit/s

95th percentile per-packet one-way delay: 87.265 ms

Loss rate: 0.16%

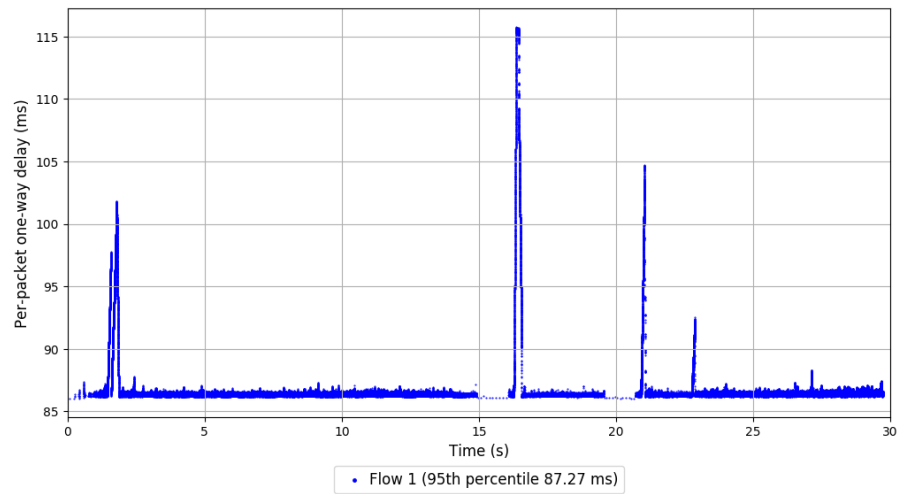
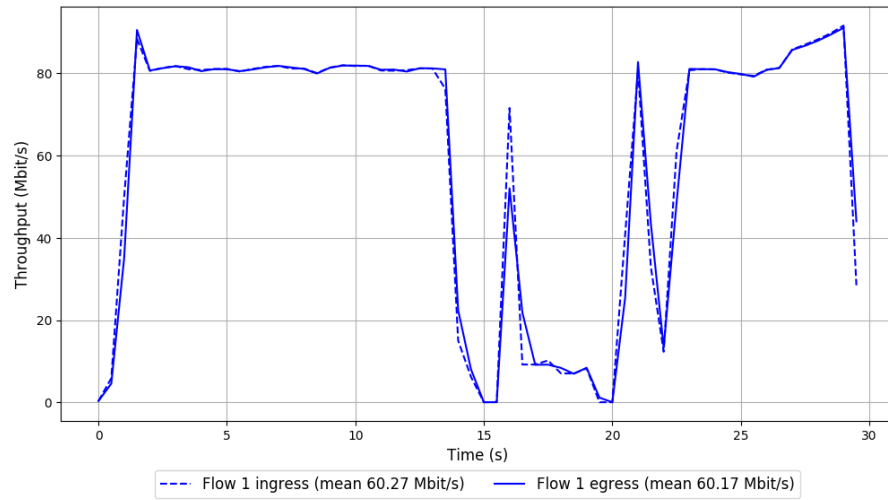
-- Flow 1:

Average throughput: 60.17 Mbit/s

95th percentile per-packet one-way delay: 87.265 ms

Loss rate: 0.16%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-02 02:33:47

End at: 2018-01-02 02:34:17

Local clock offset: -0.61 ms

Remote clock offset: -1.054 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.40 Mbit/s

95th percentile per-packet one-way delay: 104.634 ms

Loss rate: 0.18%

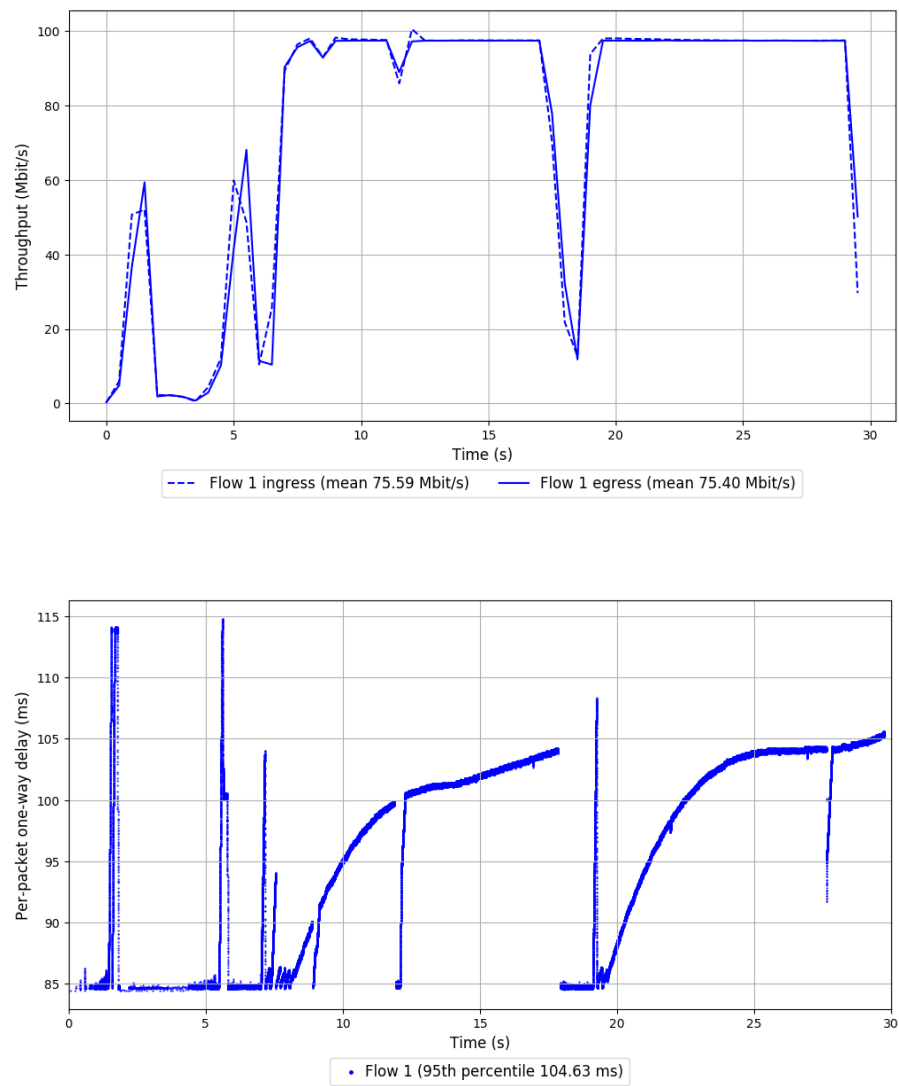
-- Flow 1:

Average throughput: 75.40 Mbit/s

95th percentile per-packet one-way delay: 104.634 ms

Loss rate: 0.18%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-02 02:51:59

End at: 2018-01-02 02:52:29

Local clock offset: -0.684 ms

Remote clock offset: 0.354 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.10 Mbit/s

95th percentile per-packet one-way delay: 88.456 ms

Loss rate: 0.13%

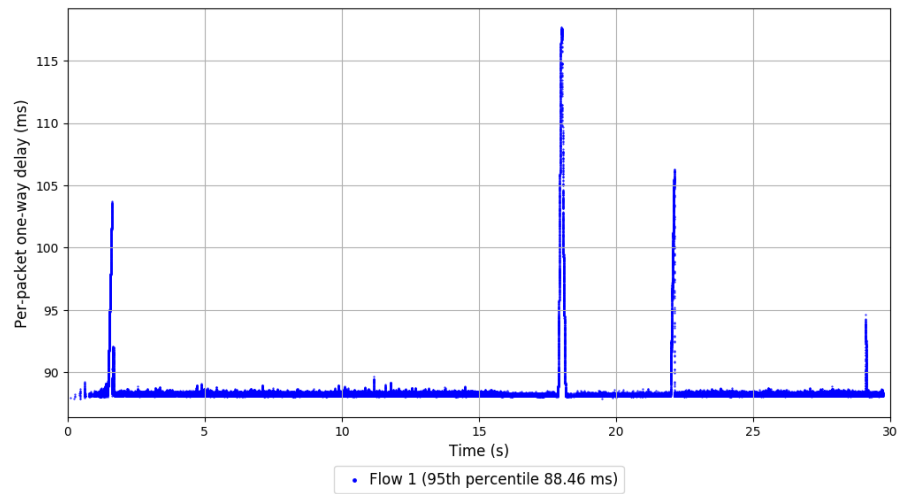
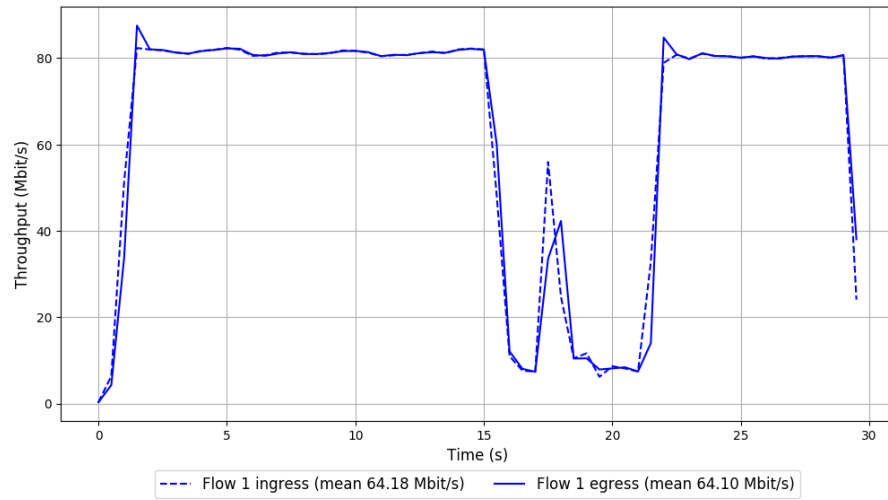
-- Flow 1:

Average throughput: 64.10 Mbit/s

95th percentile per-packet one-way delay: 88.456 ms

Loss rate: 0.13%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-02 03:10:14

End at: 2018-01-02 03:10:44

Local clock offset: -0.73 ms

Remote clock offset: -0.743 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.36 Mbit/s

95th percentile per-packet one-way delay: 87.132 ms

Loss rate: 0.38%

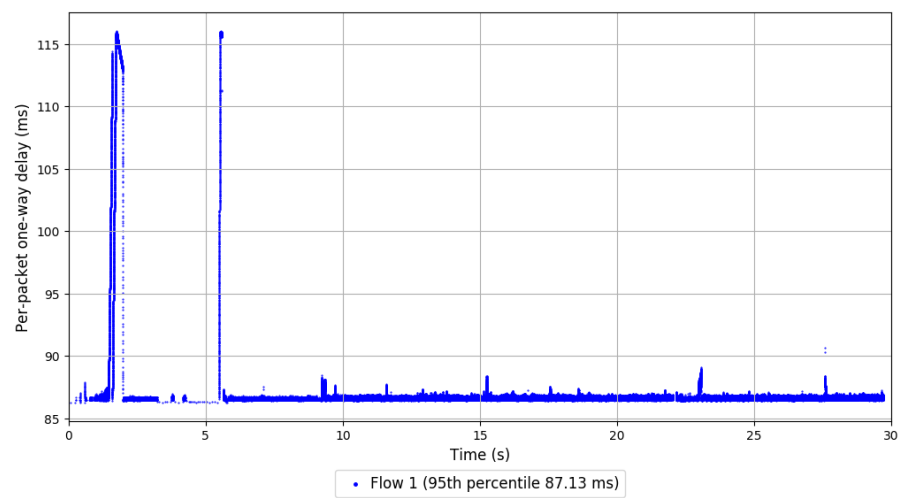
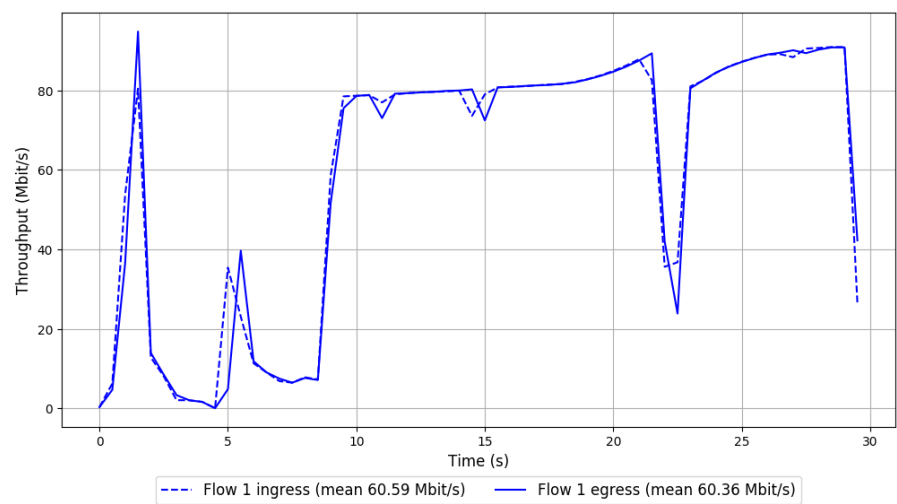
-- Flow 1:

Average throughput: 60.36 Mbit/s

95th percentile per-packet one-way delay: 87.132 ms

Loss rate: 0.38%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-01-02 03:28:25

End at: 2018-01-02 03:28:55

Local clock offset: -0.879 ms

Remote clock offset: -5.082 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.41 Mbit/s

95th percentile per-packet one-way delay: 83.246 ms

Loss rate: 0.33%

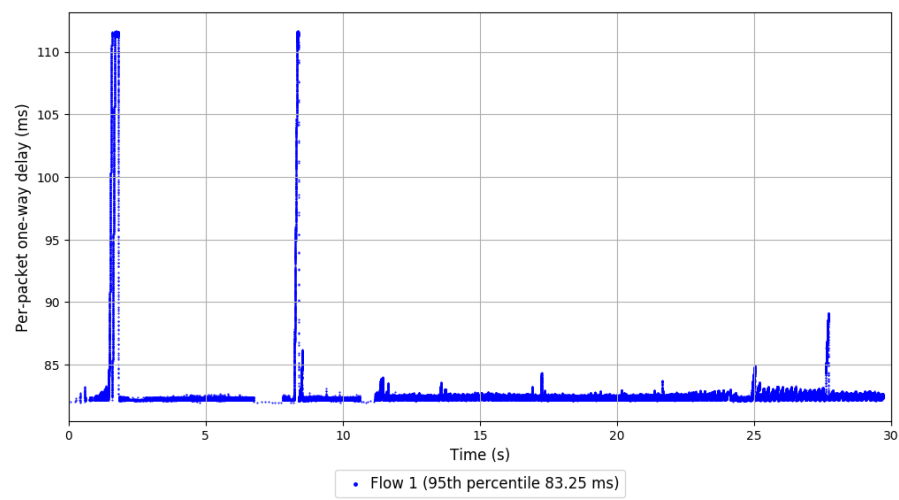
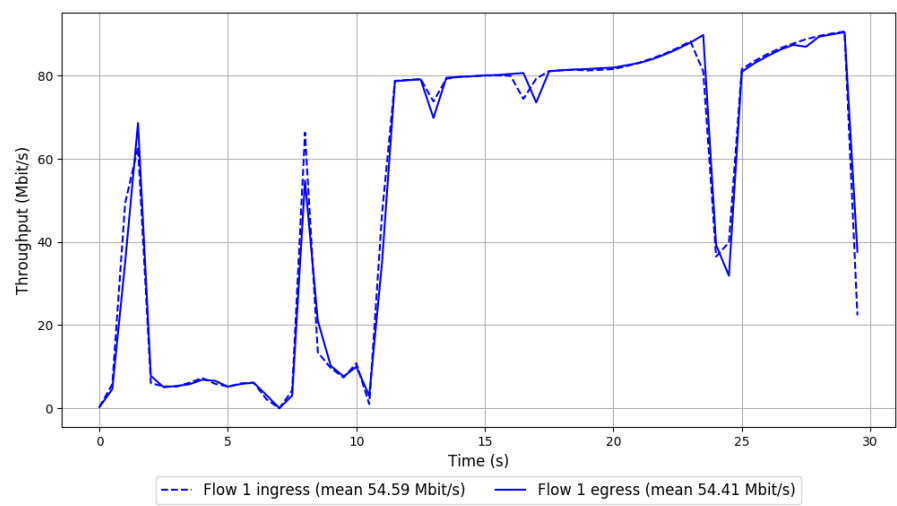
-- Flow 1:

Average throughput: 54.41 Mbit/s

95th percentile per-packet one-way delay: 83.246 ms

Loss rate: 0.33%

Run 10: Report of QUIC Cubic — Data Link

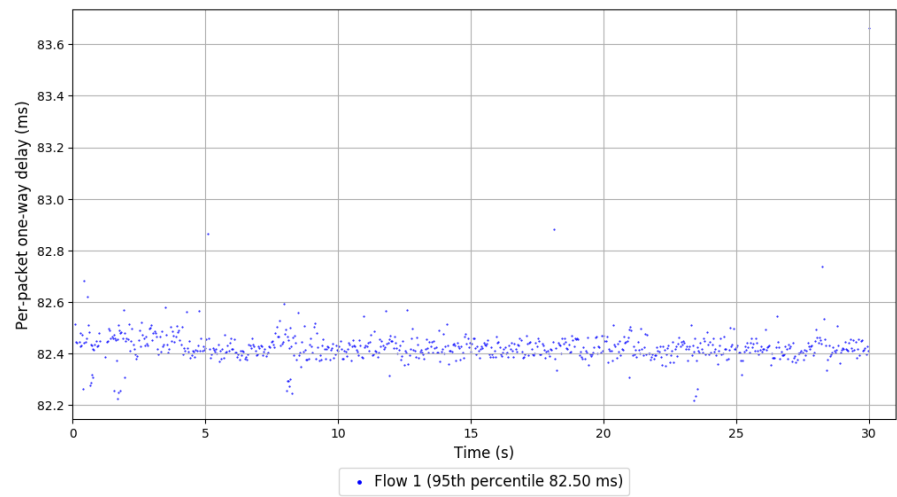
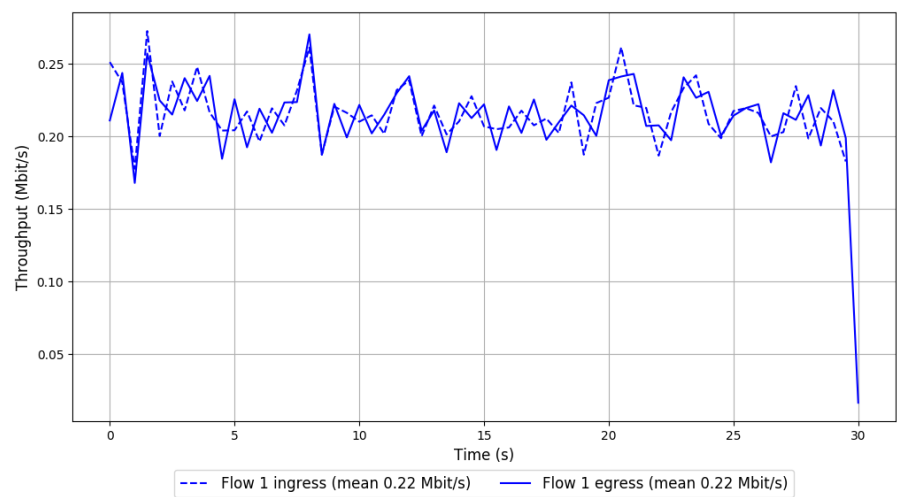


Run 1: Statistics of SCReAM

Start at: 2018-01-02 00:37:15
End at: 2018-01-02 00:37:45
Local clock offset: -1.182 ms
Remote clock offset: -4.102 ms

Below is generated by plot.py at 2018-01-02 04:02:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.499 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.499 ms
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-01-02 00:55:32

End at: 2018-01-02 00:56:02

Local clock offset: -1.612 ms

Remote clock offset: 1.576 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.154 ms

Loss rate: 0.00%

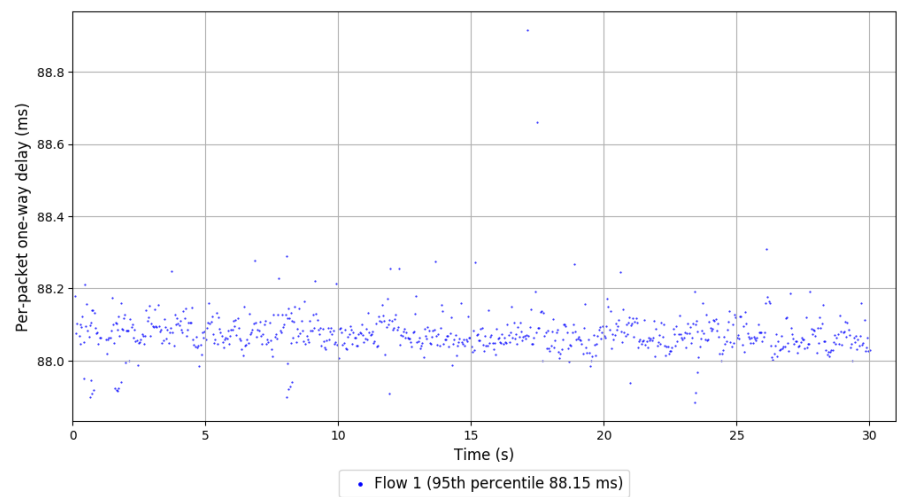
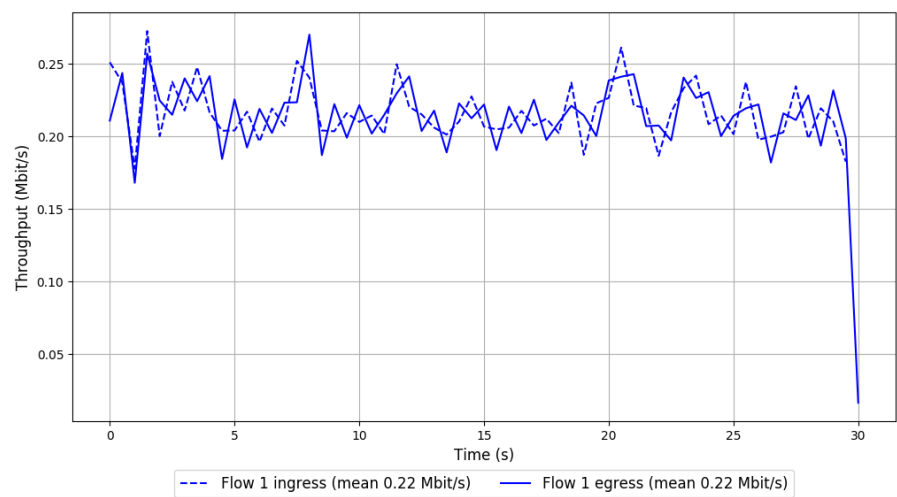
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.154 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

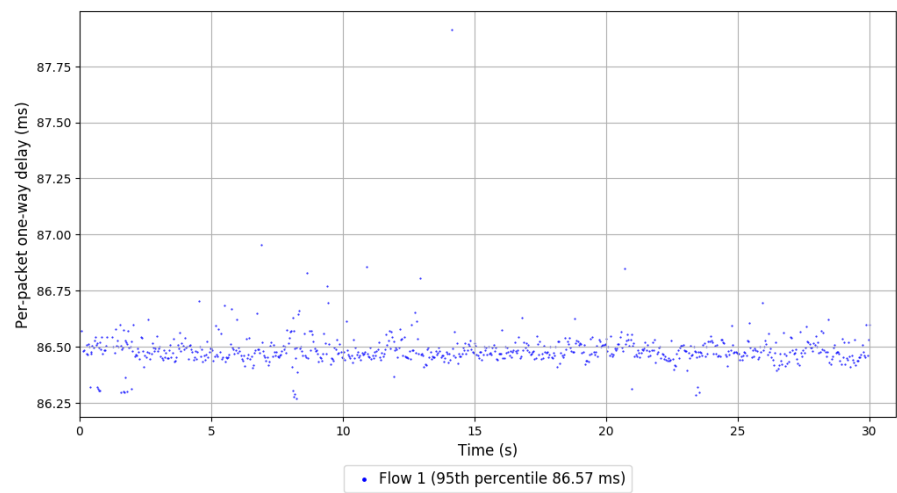
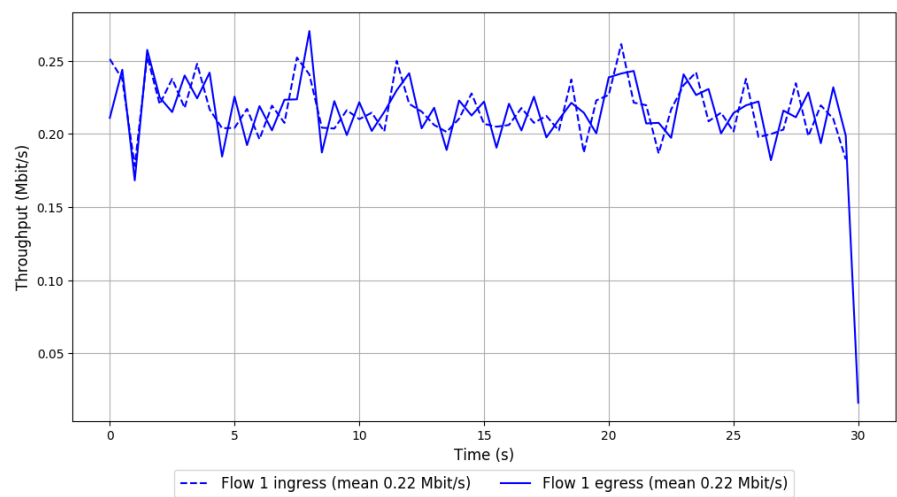


Run 3: Statistics of SCReAM

Start at: 2018-01-02 01:13:45
End at: 2018-01-02 01:14:15
Local clock offset: -1.258 ms
Remote clock offset: -0.115 ms

Below is generated by plot.py at 2018-01-02 04:02:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.573 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.573 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-01-02 01:31:56

End at: 2018-01-02 01:32:26

Local clock offset: -1.0 ms

Remote clock offset: 0.729 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.373 ms

Loss rate: 0.00%

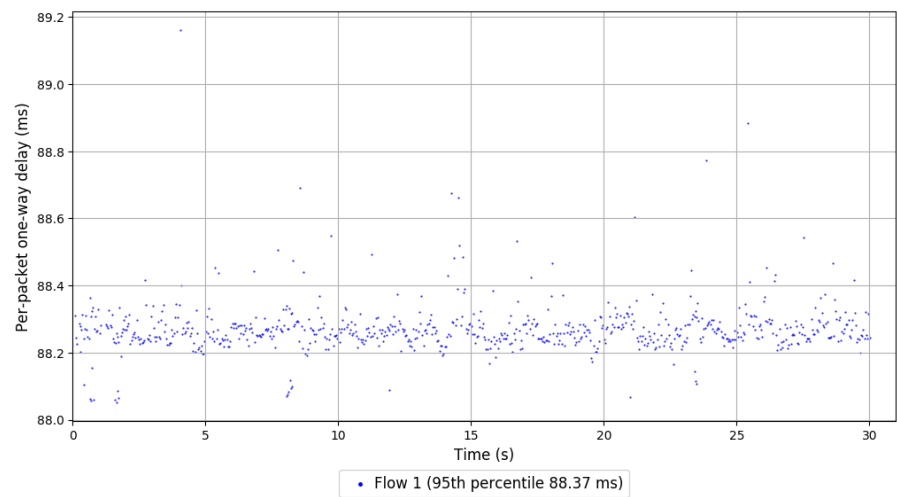
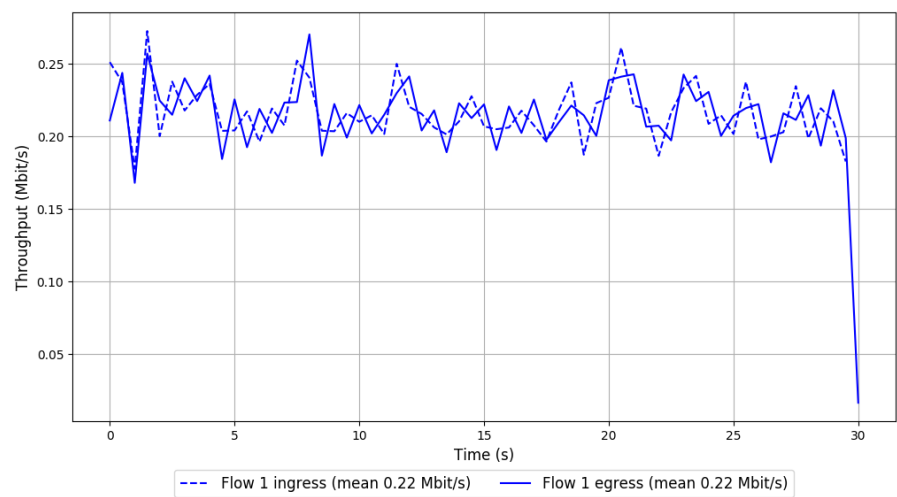
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.373 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-01-02 01:50:05

End at: 2018-01-02 01:50:35

Local clock offset: -0.583 ms

Remote clock offset: 0.592 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.303 ms

Loss rate: 0.00%

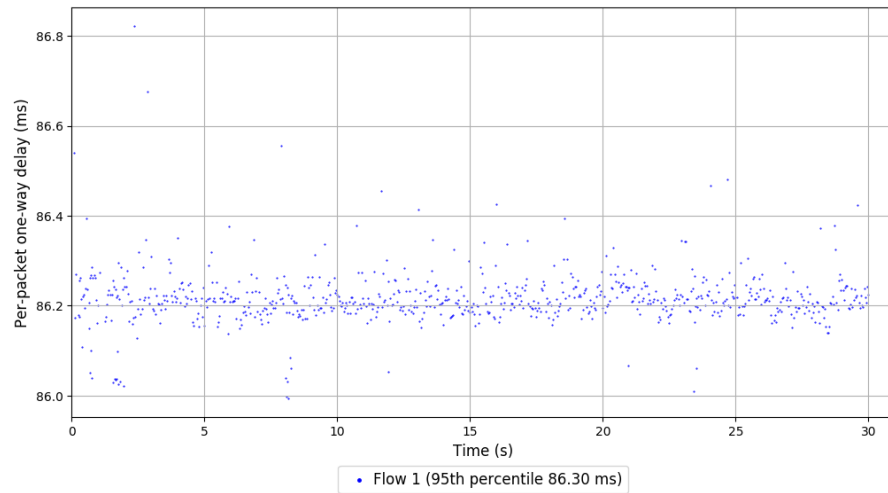
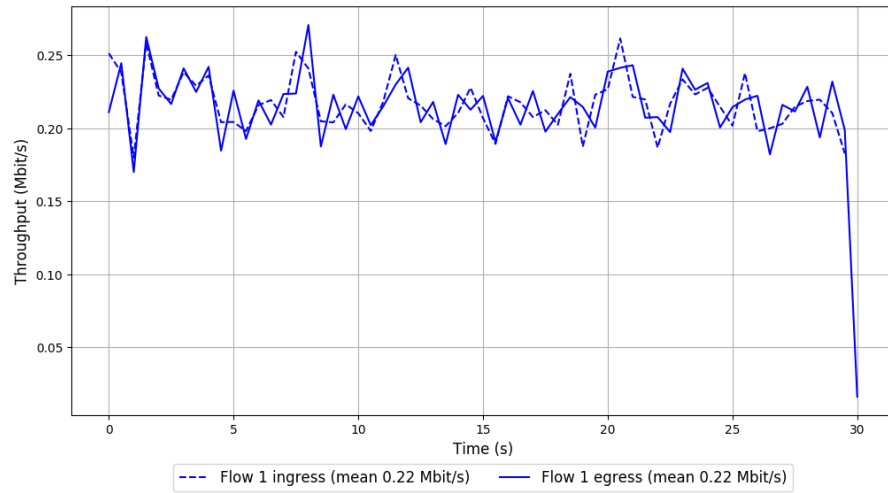
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.303 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

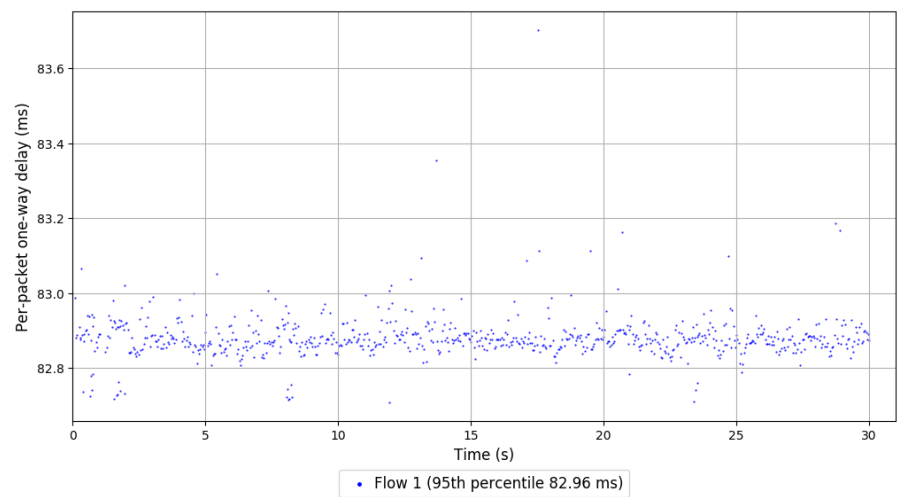
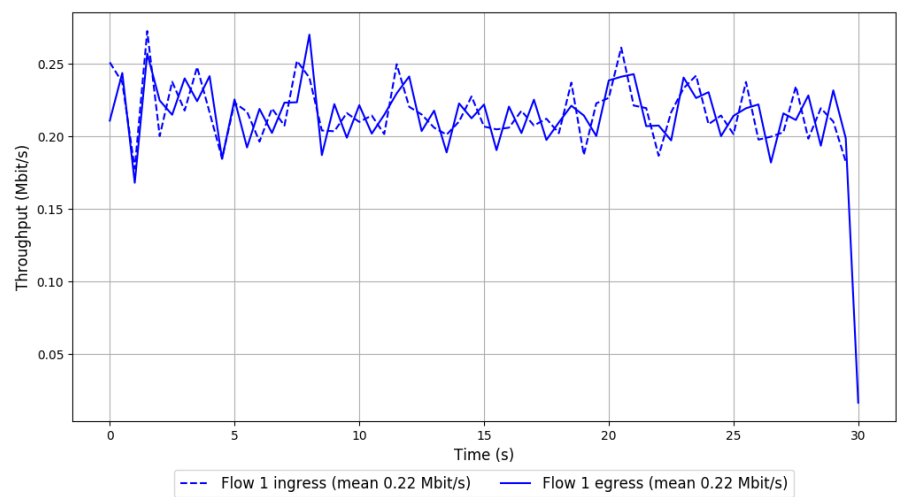


Run 6: Statistics of SCReAM

Start at: 2018-01-02 02:08:21
End at: 2018-01-02 02:08:51
Local clock offset: -0.648 ms
Remote clock offset: -4.465 ms

Below is generated by plot.py at 2018-01-02 04:02:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.958 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.958 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

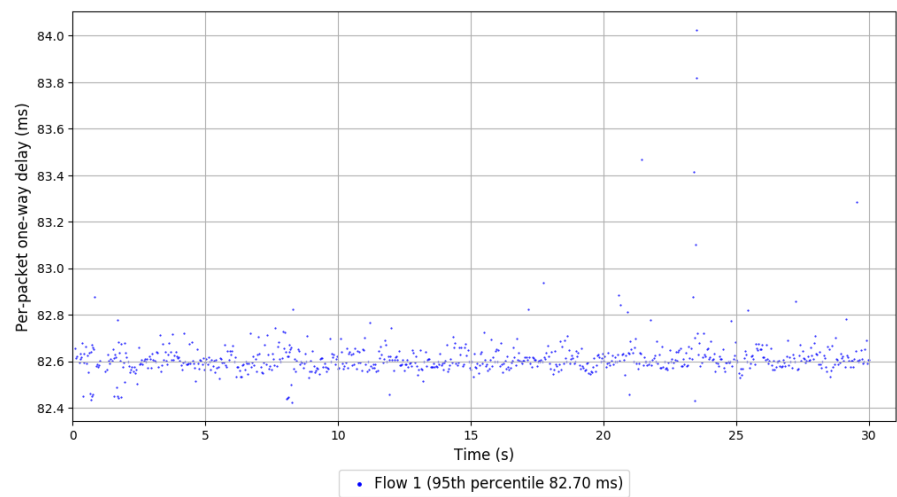
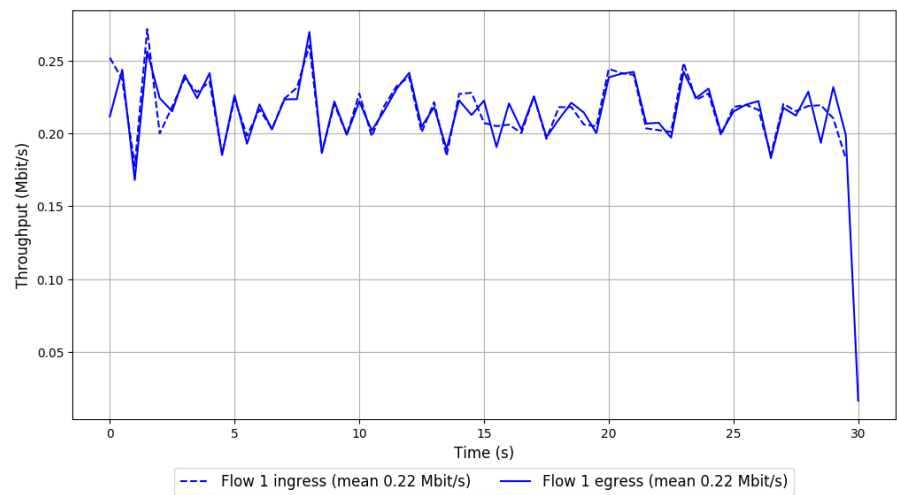


Run 7: Statistics of SCReAM

Start at: 2018-01-02 02:26:33
End at: 2018-01-02 02:27:03
Local clock offset: -0.683 ms
Remote clock offset: -5.331 ms

Below is generated by plot.py at 2018-01-02 04:02:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.703 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.703 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

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

End at: 2018-01-02 02:45:14

Local clock offset: -0.701 ms

Remote clock offset: 0.522 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.840 ms

Loss rate: 0.00%

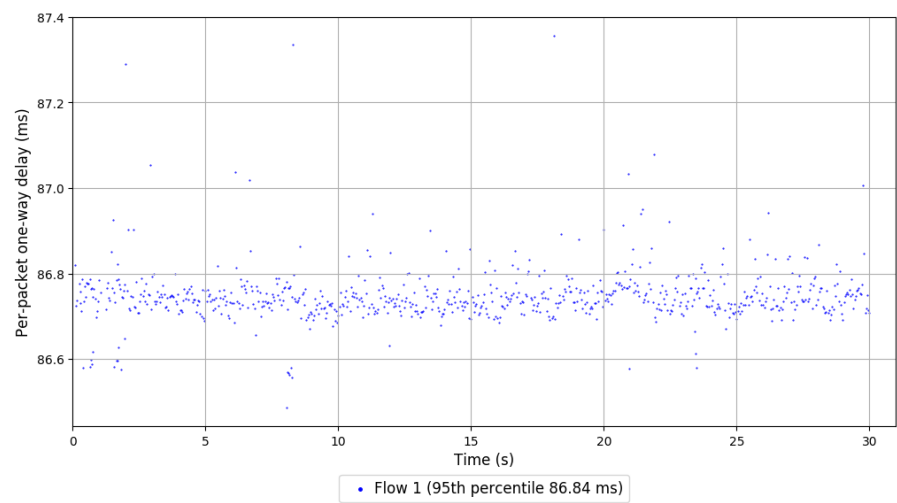
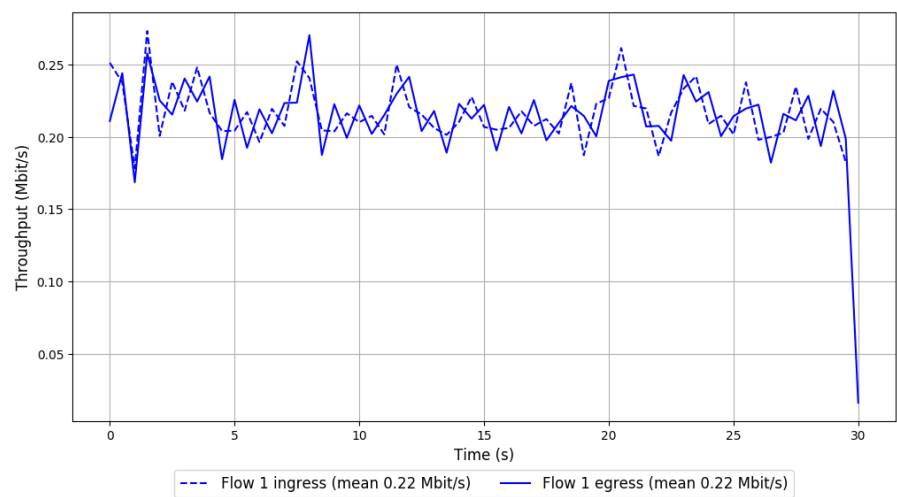
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.840 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

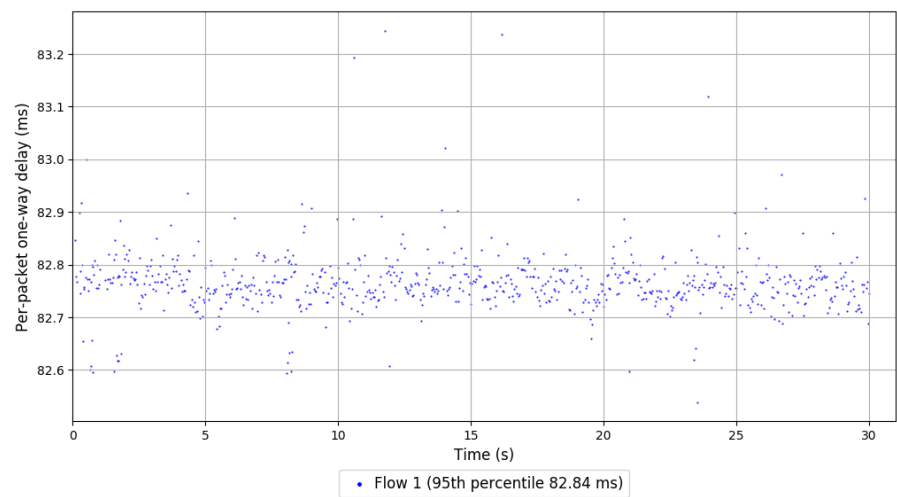
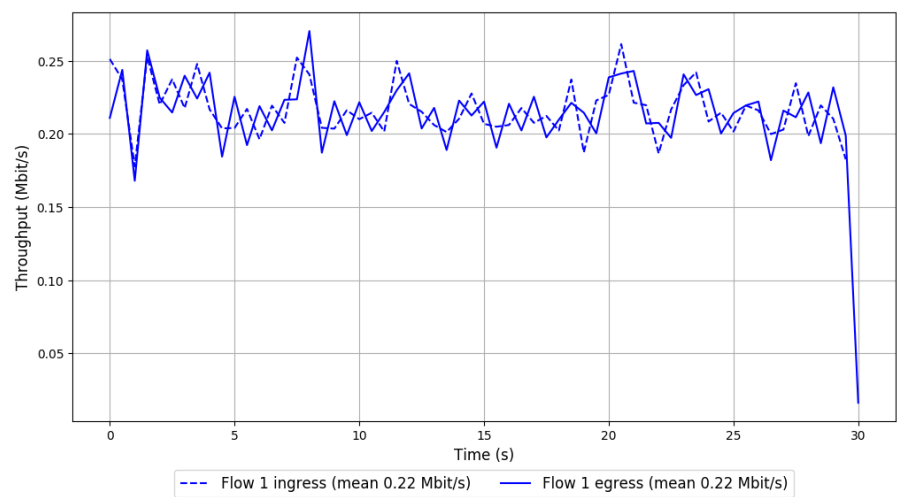


Run 9: Statistics of SCReAM

Start at: 2018-01-02 03:02:59
End at: 2018-01-02 03:03:29
Local clock offset: -0.724 ms
Remote clock offset: -5.467 ms

Below is generated by plot.py at 2018-01-02 04:02:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.845 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.845 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

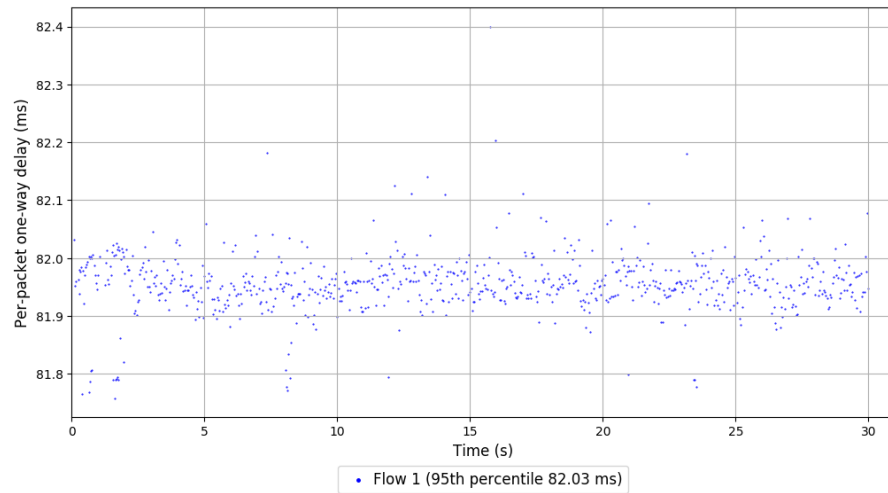
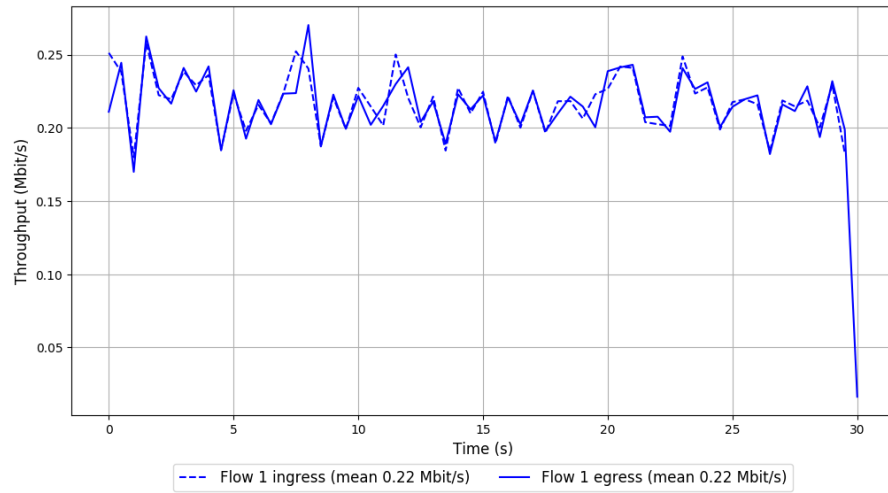


Run 10: Statistics of SReAM

Start at: 2018-01-02 03:21:11
End at: 2018-01-02 03:21:41
Local clock offset: -0.776 ms
Remote clock offset: -4.931 ms

Below is generated by plot.py at 2018-01-02 04:02:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.027 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.027 ms
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

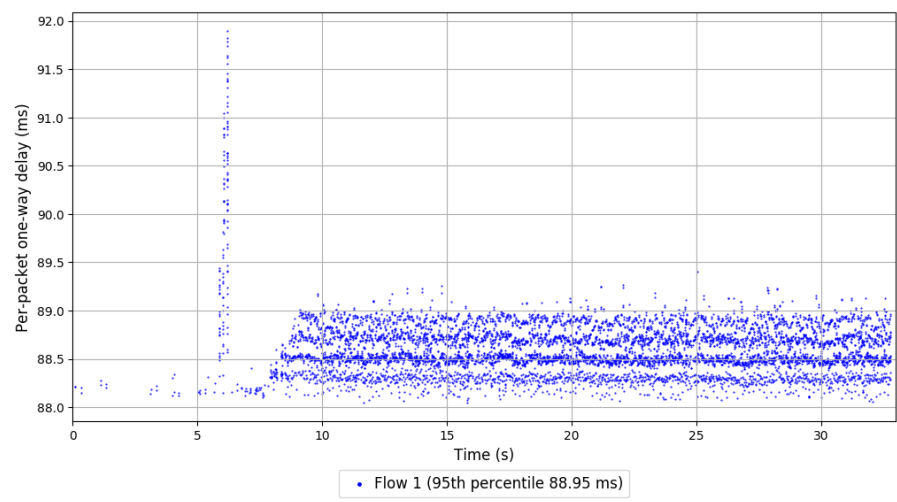
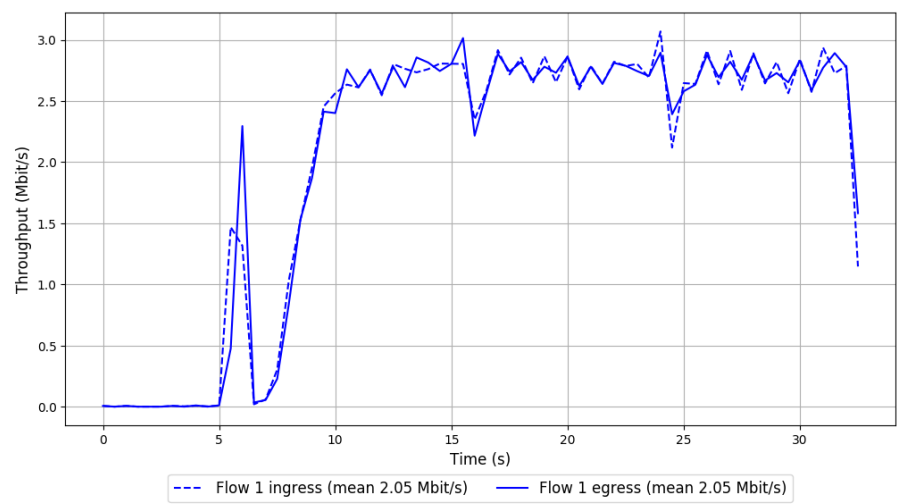


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-02 00:40:56
End at: 2018-01-02 00:41:26
Local clock offset: -1.226 ms
Remote clock offset: 0.769 ms

# Below is generated by plot.py at 2018-01-02 04:02:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 88.951 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 88.951 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

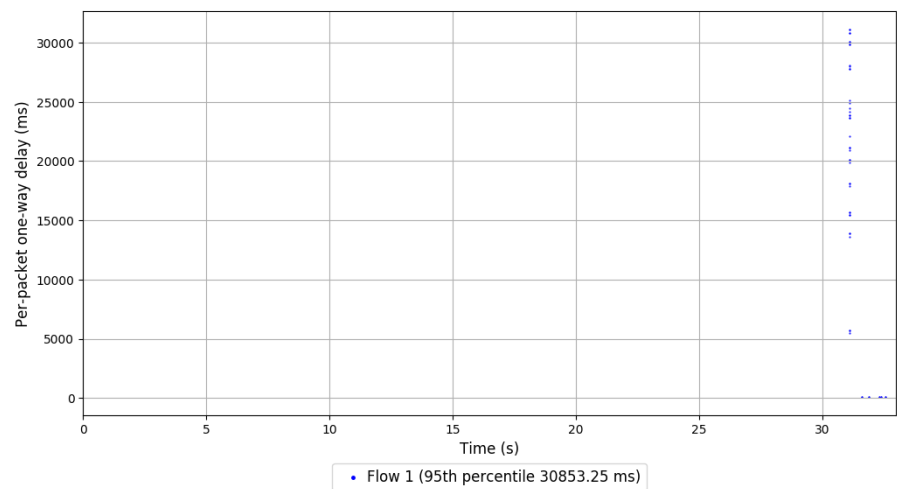
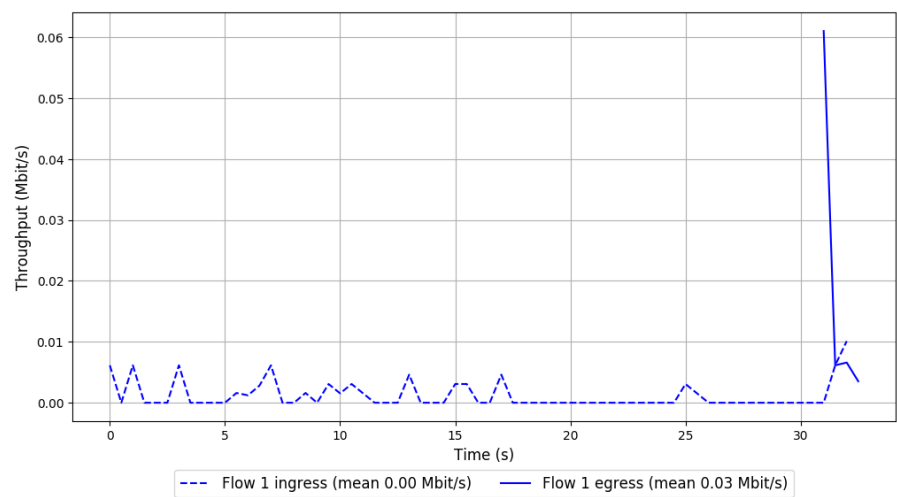
Start at: 2018-01-02 00:59:14

End at: 2018-01-02 00:59:44

Local clock offset: -1.632 ms

Remote clock offset: 1.244 ms

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-02 01:17:26

End at: 2018-01-02 01:17:56

Local clock offset: -1.265 ms

Remote clock offset: 0.998 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 86.461 ms

Loss rate: 0.00%

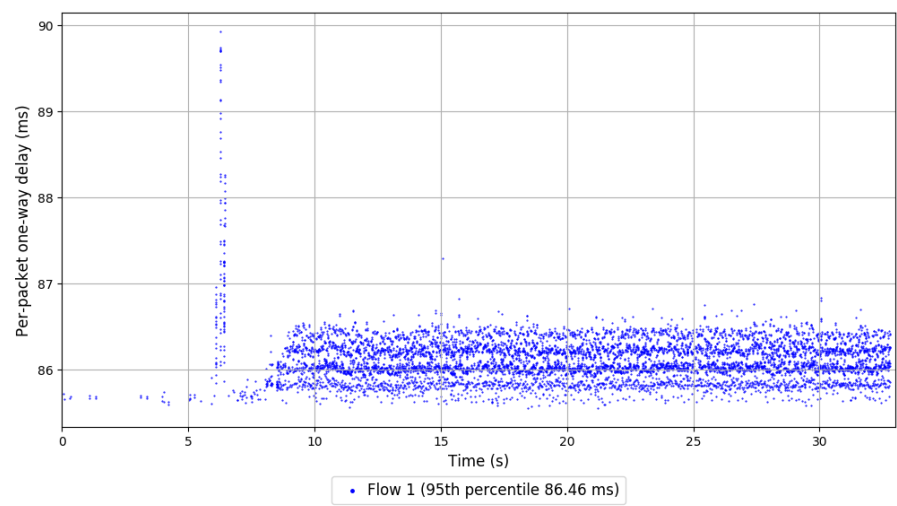
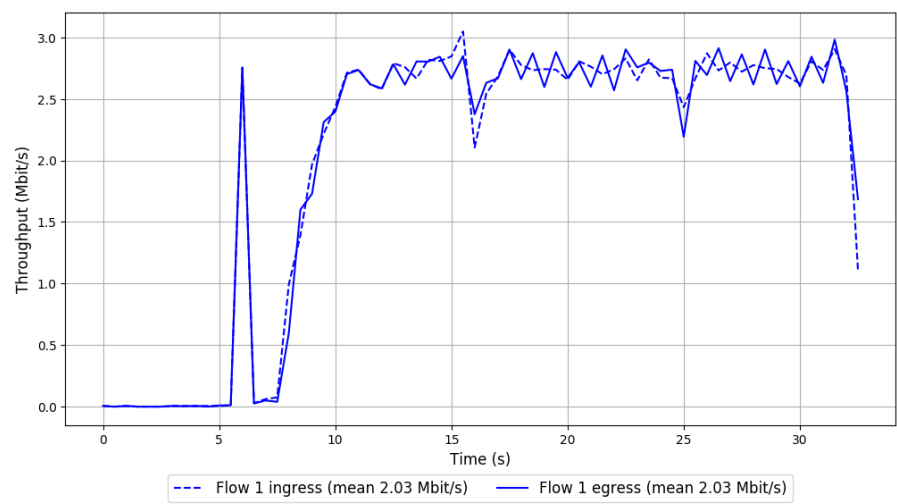
-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 86.461 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-02 01:35:38

End at: 2018-01-02 01:36:08

Local clock offset: -0.935 ms

Remote clock offset: 0.342 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 88.015 ms

Loss rate: 0.00%

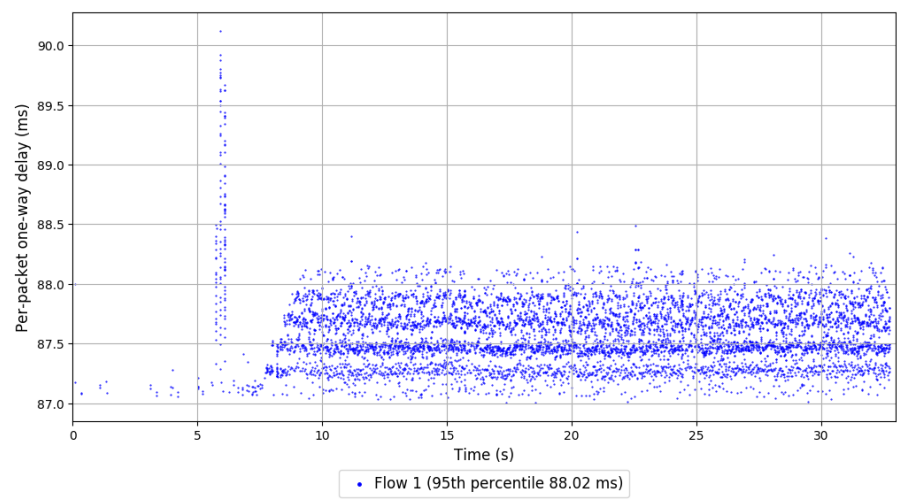
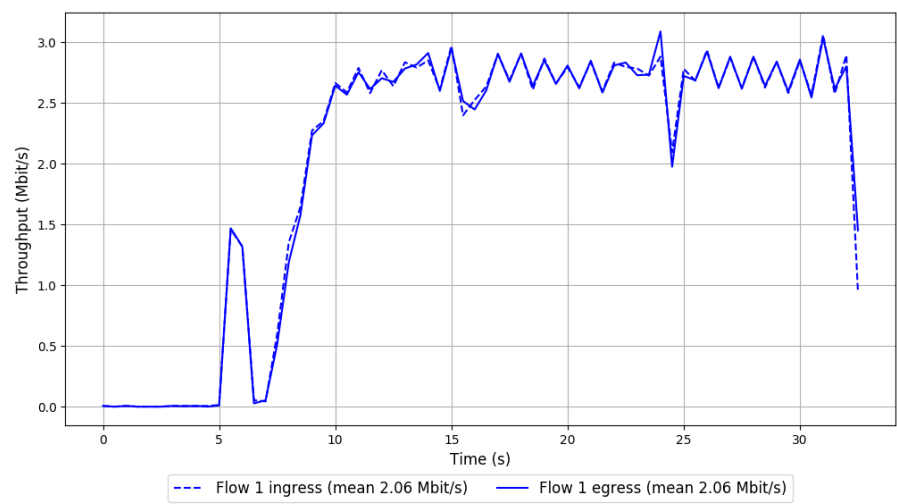
-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 88.015 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

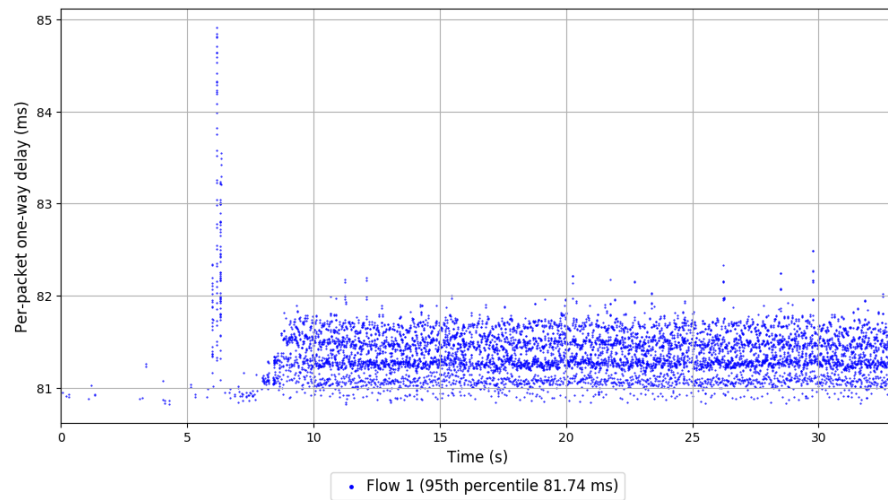
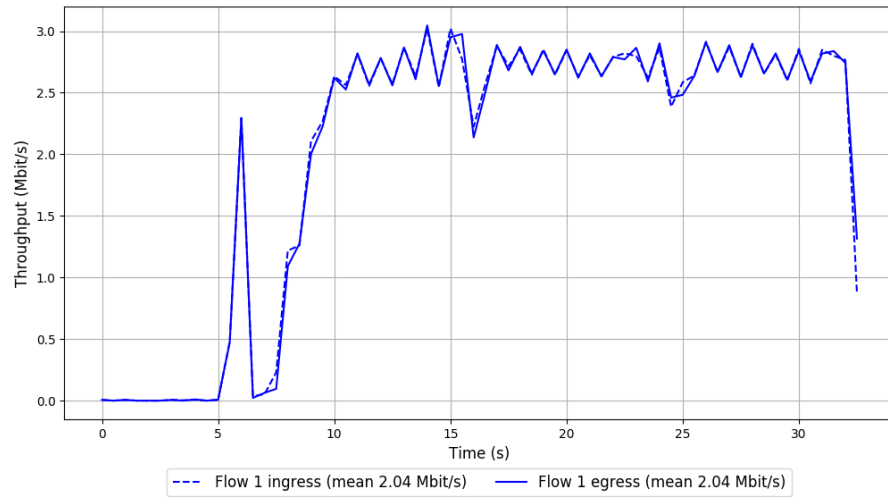


Run 5: Statistics of WebRTC media

Start at: 2018-01-02 01:53:47
End at: 2018-01-02 01:54:17
Local clock offset: -0.581 ms
Remote clock offset: -4.804 ms

Below is generated by plot.py at 2018-01-02 04:02:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 81.744 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 81.744 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

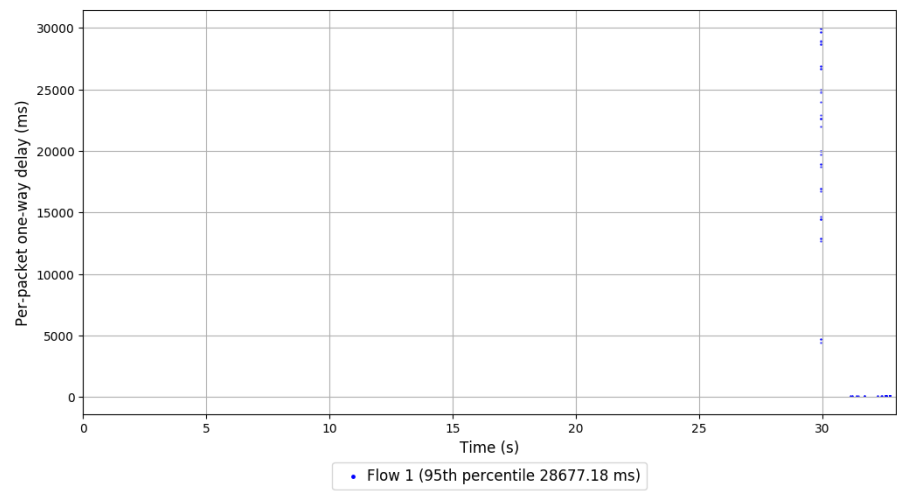
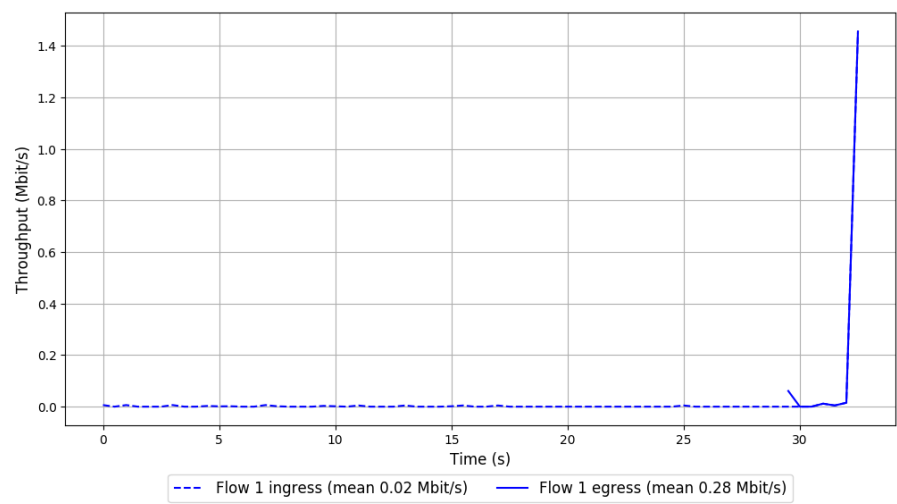
Start at: 2018-01-02 02:12:03

End at: 2018-01-02 02:12:33

Local clock offset: -0.698 ms

Remote clock offset: -4.088 ms

Run 6: Report of WebRTC media — Data Link

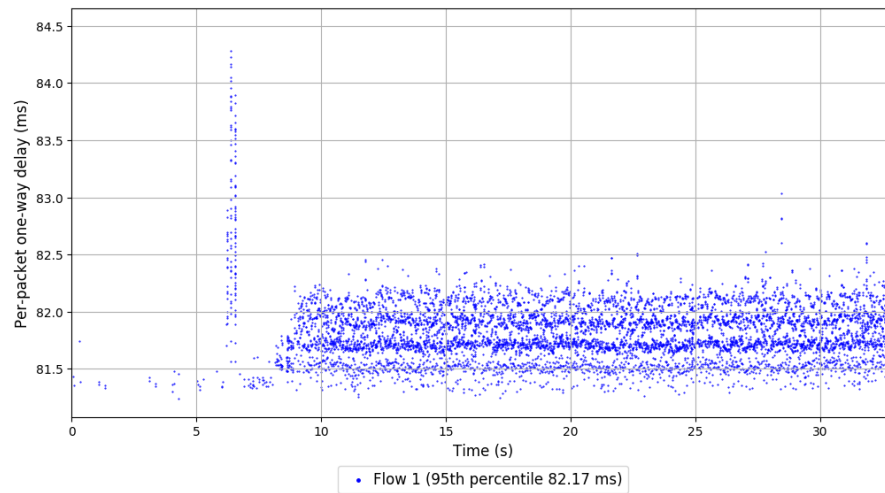
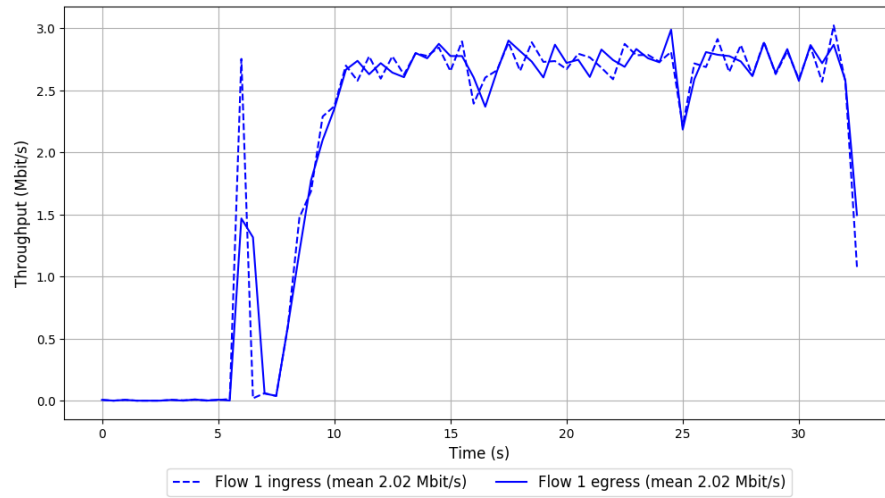


Run 7: Statistics of WebRTC media

Start at: 2018-01-02 02:30:15
End at: 2018-01-02 02:30:45
Local clock offset: -0.623 ms
Remote clock offset: -4.512 ms

Below is generated by plot.py at 2018-01-02 04:02:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 82.172 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 82.172 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

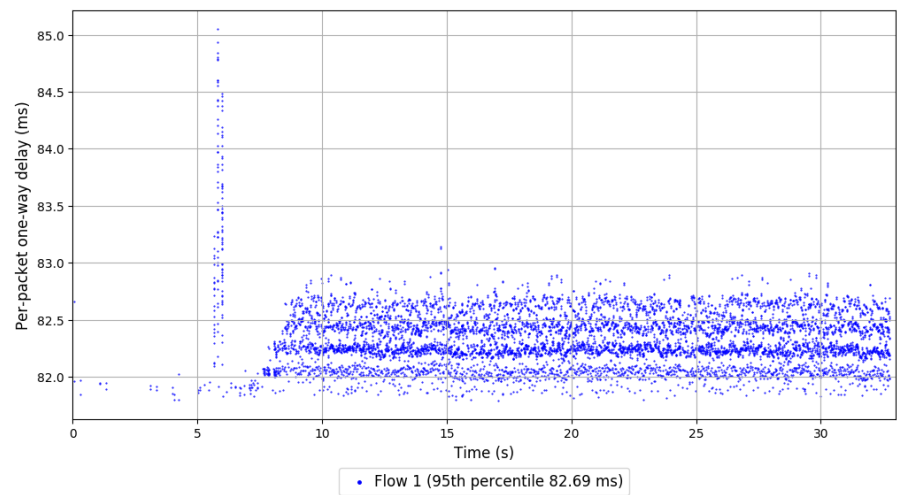
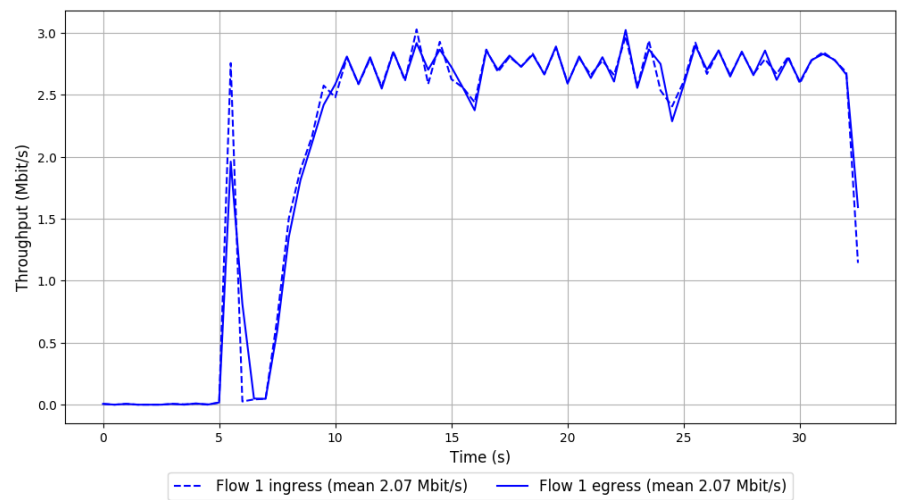


Run 8: Statistics of WebRTC media

Start at: 2018-01-02 02:48:26
End at: 2018-01-02 02:48:56
Local clock offset: -0.66 ms
Remote clock offset: -5.672 ms

Below is generated by plot.py at 2018-01-02 04:02:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 82.685 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 82.685 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

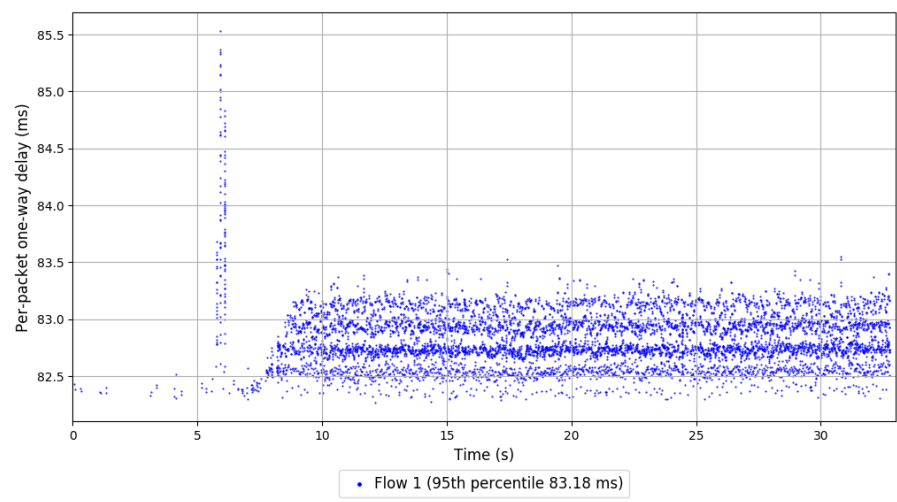
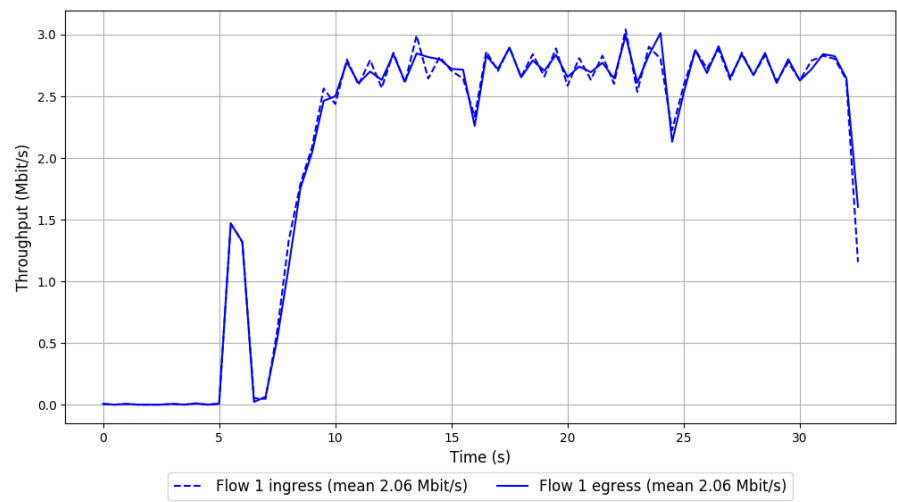


Run 9: Statistics of WebRTC media

Start at: 2018-01-02 03:06:41
End at: 2018-01-02 03:07:11
Local clock offset: -0.715 ms
Remote clock offset: -5.515 ms

Below is generated by plot.py at 2018-01-02 04:02:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 83.176 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 83.176 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-02 03:24:53

End at: 2018-01-02 03:25:23

Local clock offset: -0.802 ms

Remote clock offset: -0.149 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 87.232 ms

Loss rate: 0.00%

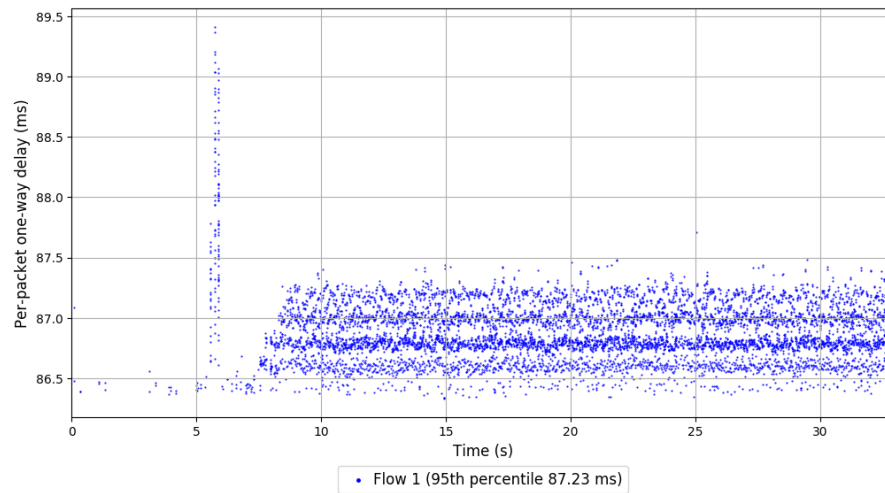
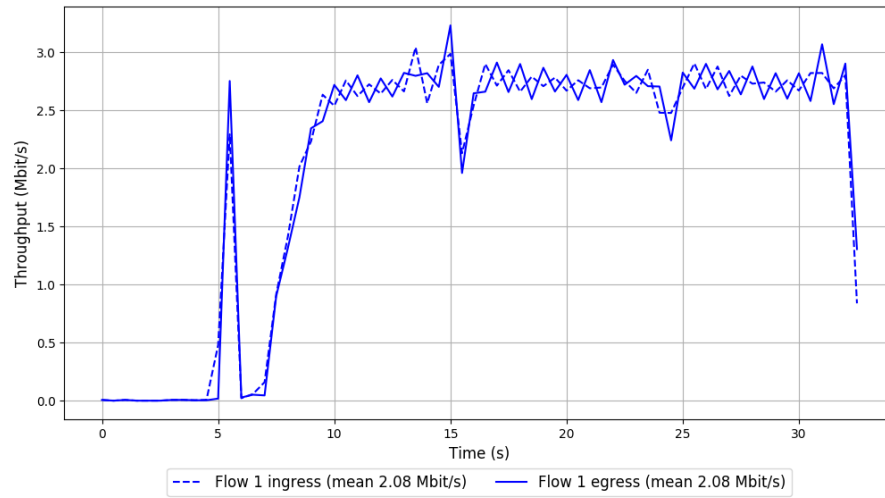
-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 87.232 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-02 00:46:59

End at: 2018-01-02 00:47:29

Local clock offset: -1.369 ms

Remote clock offset: -4.064 ms

Run 1: Report of Sprout — Data Link

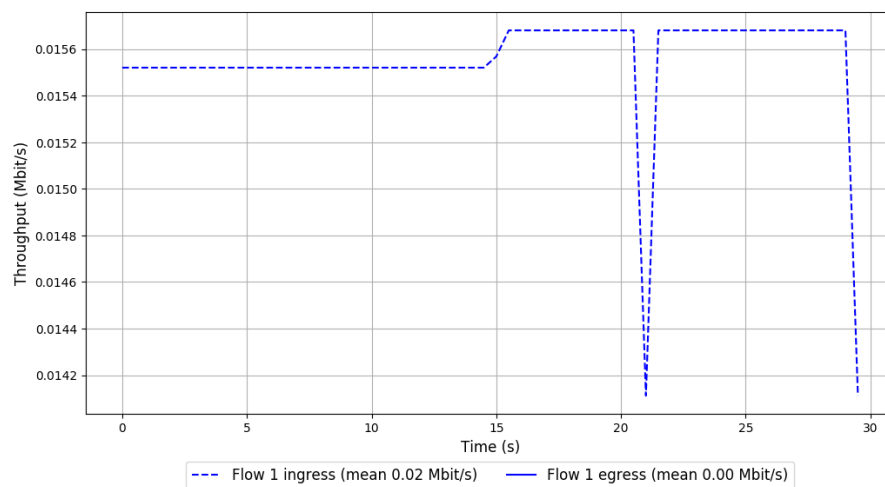


Figure is missing

Run 2: Statistics of Sprout

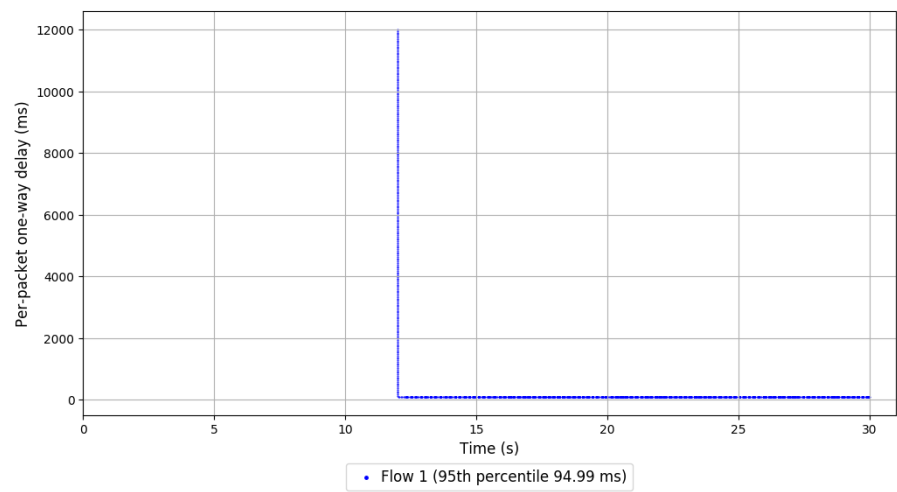
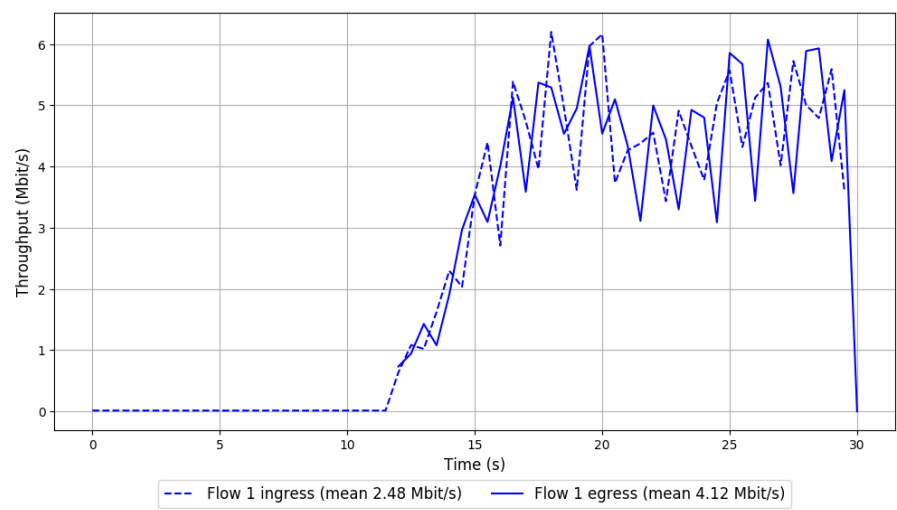
Start at: 2018-01-02 01:05:14

End at: 2018-01-02 01:05:44

Local clock offset: -1.353 ms

Remote clock offset: 1.542 ms

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-02 01:23:26

End at: 2018-01-02 01:23:56

Local clock offset: -1.304 ms

Remote clock offset: -4.663 ms

Run 3: Report of Sprout — Data Link

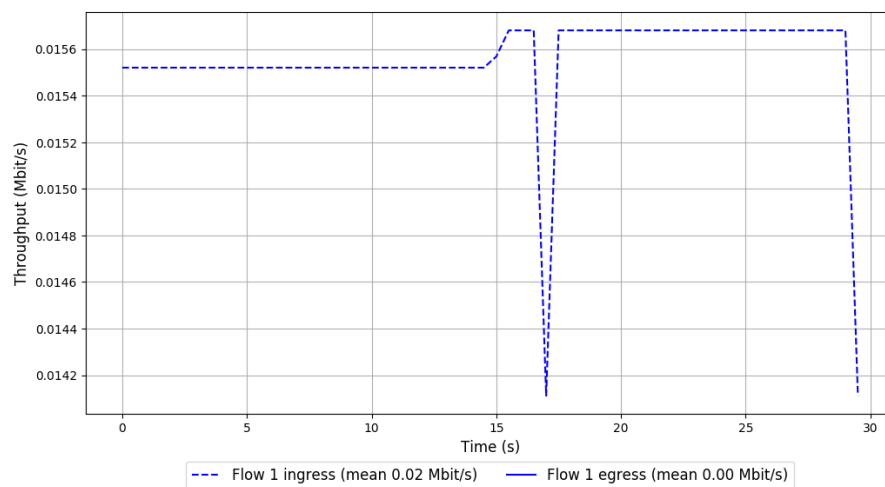


Figure is missing

Run 4: Statistics of Sprout

Start at: 2018-01-02 01:41:35

End at: 2018-01-02 01:42:05

Local clock offset: -0.689 ms

Remote clock offset: 0.71 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.67 Mbit/s

95th percentile per-packet one-way delay: 92.491 ms

Loss rate: 0.00%

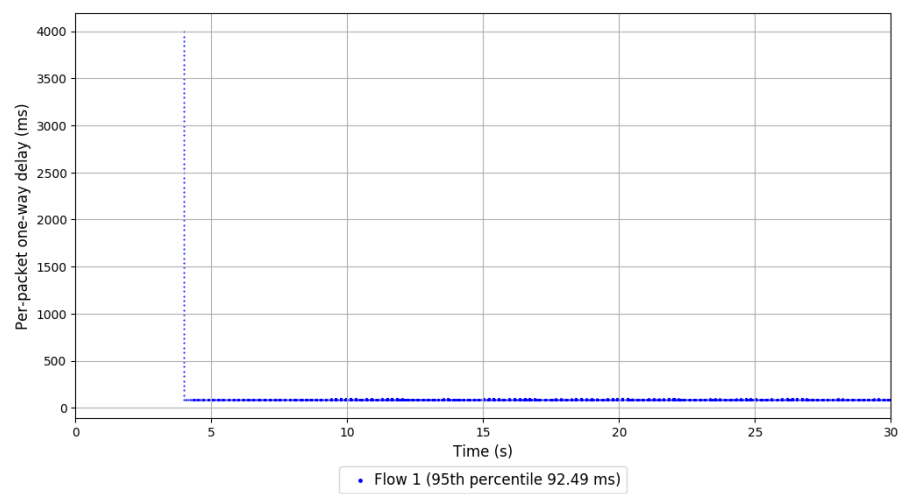
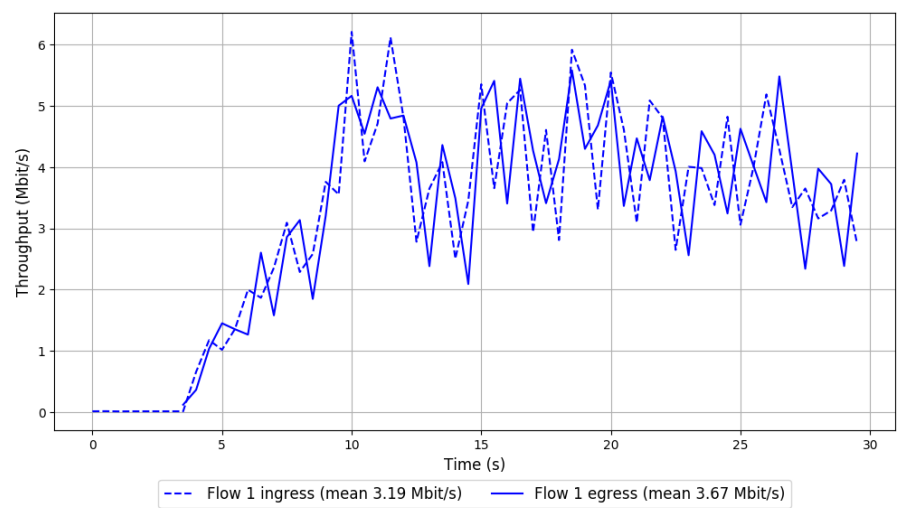
-- Flow 1:

Average throughput: 3.67 Mbit/s

95th percentile per-packet one-way delay: 92.491 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

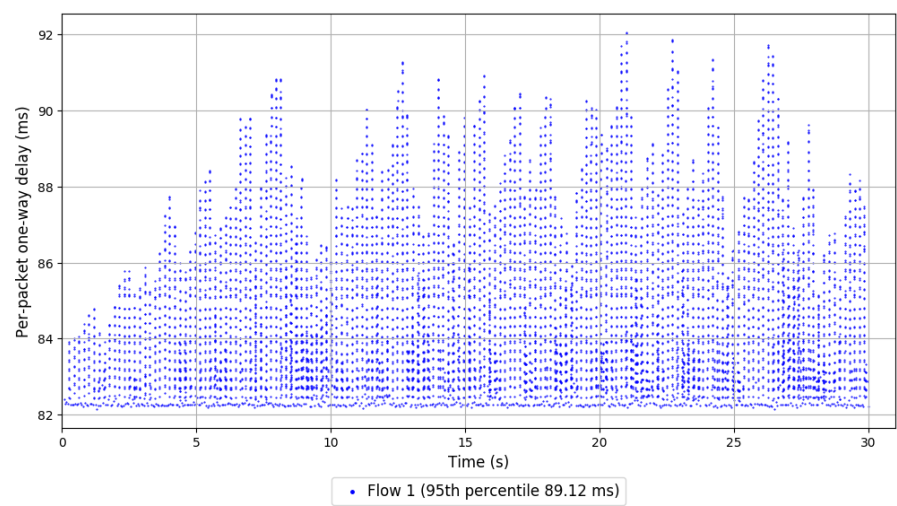
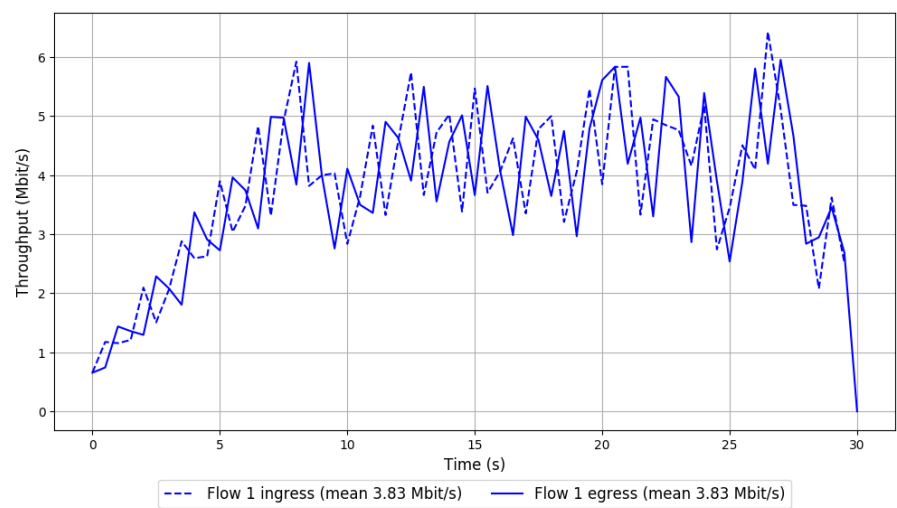


Run 5: Statistics of Sprout

Start at: 2018-01-02 01:59:47
End at: 2018-01-02 02:00:17
Local clock offset: -0.591 ms
Remote clock offset: -4.843 ms

Below is generated by plot.py at 2018-01-02 04:02:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.83 Mbit/s
95th percentile per-packet one-way delay: 89.120 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.83 Mbit/s
95th percentile per-packet one-way delay: 89.120 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

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

End at: 2018-01-02 02:18:32

Local clock offset: -0.749 ms

Remote clock offset: 0.39 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.74 Mbit/s

95th percentile per-packet one-way delay: 93.796 ms

Loss rate: 0.00%

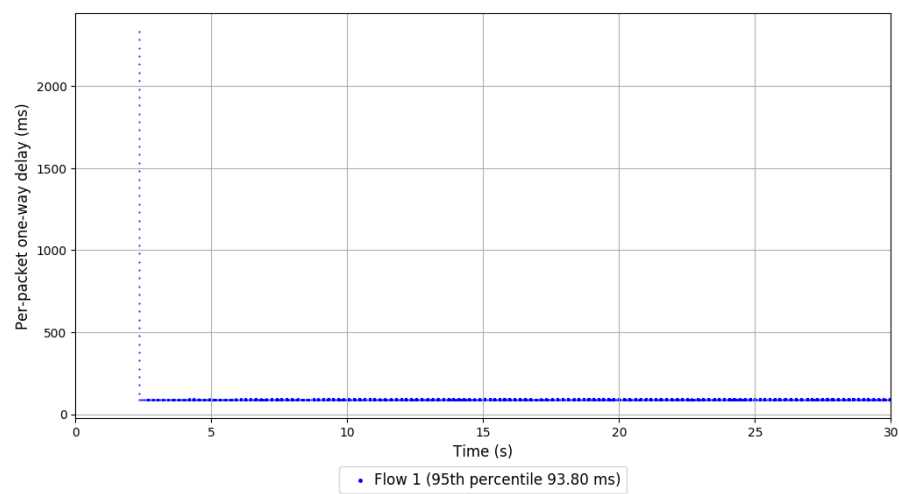
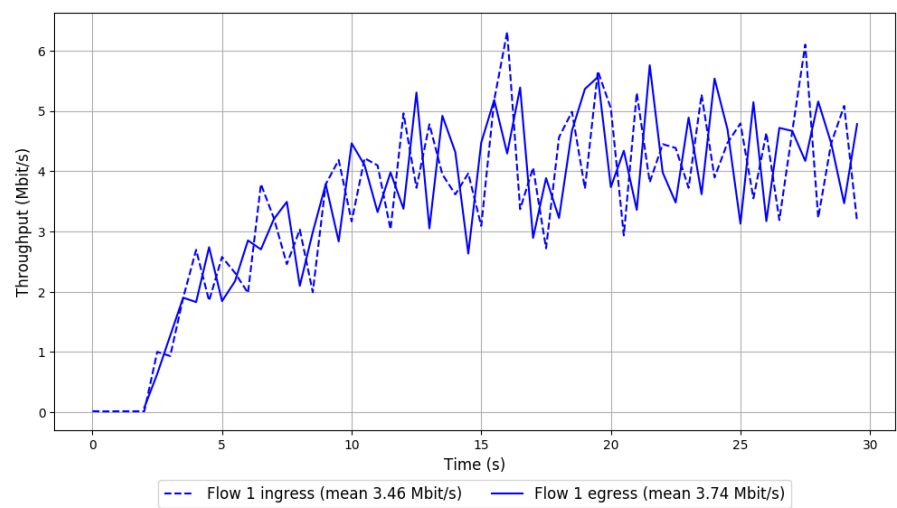
-- Flow 1:

Average throughput: 3.74 Mbit/s

95th percentile per-packet one-way delay: 93.796 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

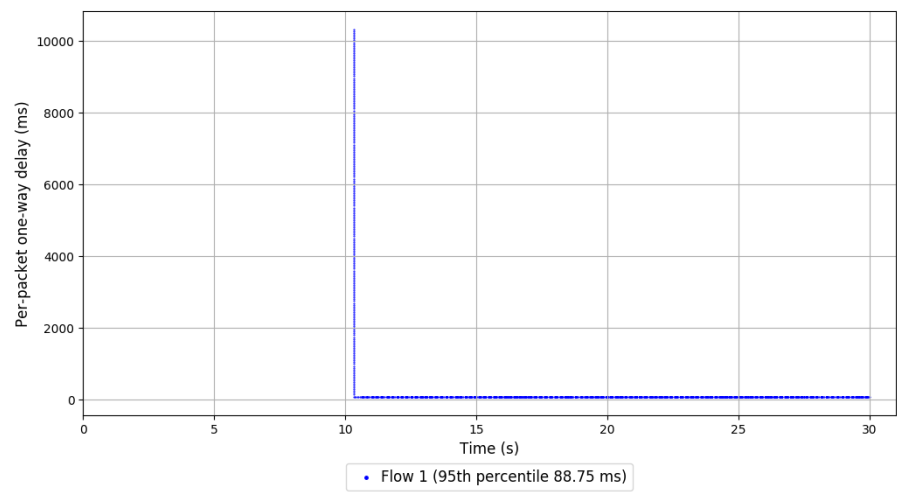
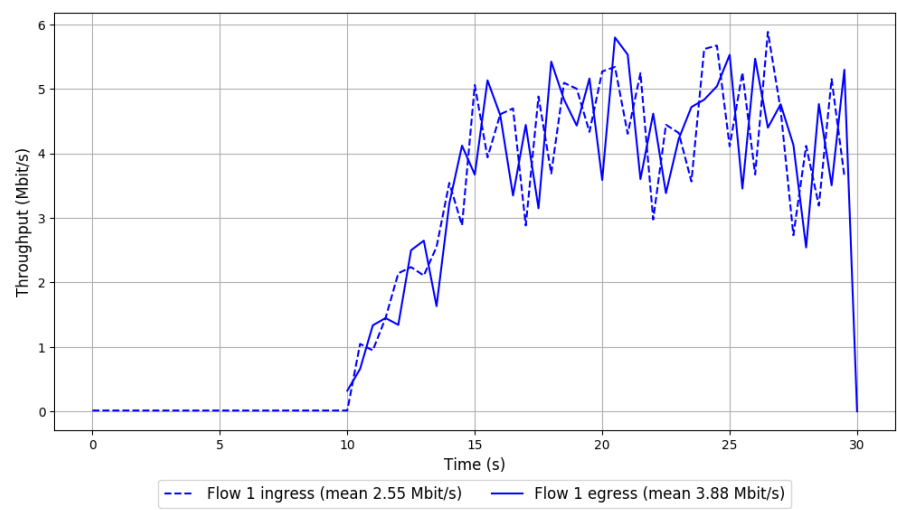
Start at: 2018-01-02 02:36:14

End at: 2018-01-02 02:36:44

Local clock offset: -0.629 ms

Remote clock offset: -5.427 ms

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-02 02:54:26

End at: 2018-01-02 02:54:56

Local clock offset: -0.765 ms

Remote clock offset: -6.115 ms

Run 8: Report of Sprout — Data Link

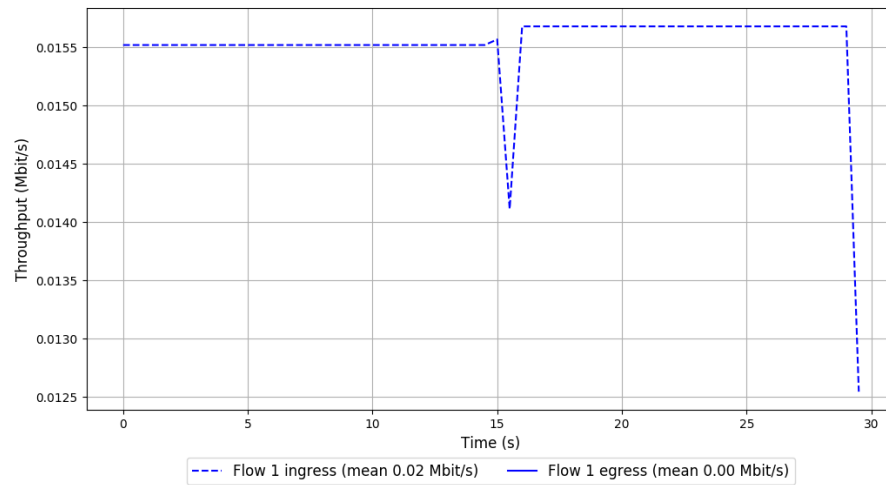


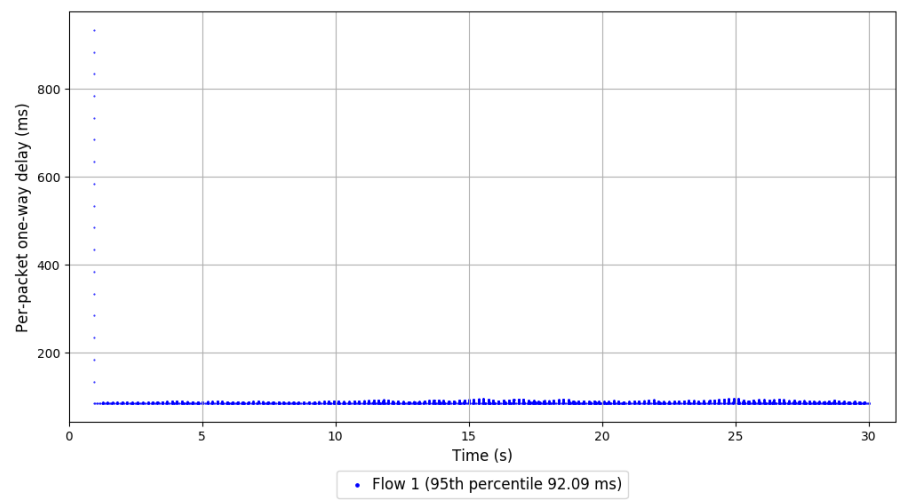
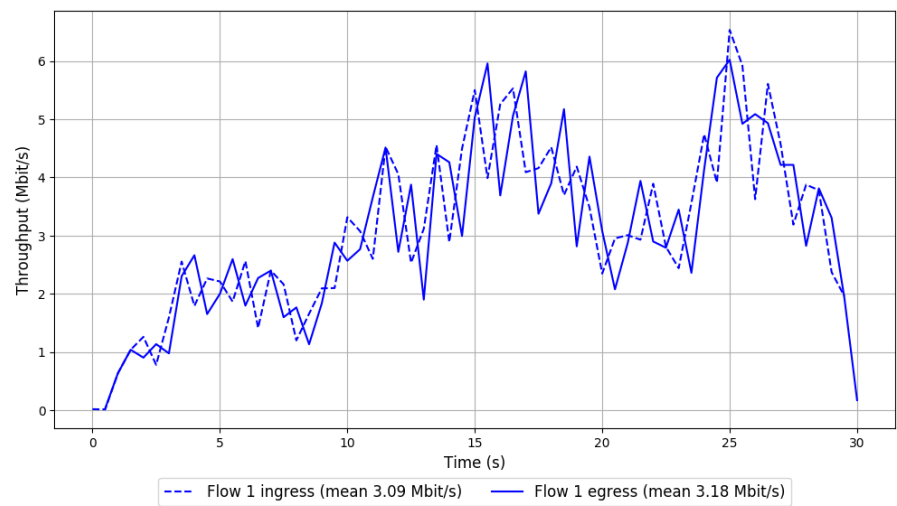
Figure is missing

Run 9: Statistics of Sprout

Start at: 2018-01-02 03:12:40
End at: 2018-01-02 03:13:10
Local clock offset: -0.737 ms
Remote clock offset: -0.823 ms

Below is generated by plot.py at 2018-01-02 04:02:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.18 Mbit/s
95th percentile per-packet one-way delay: 92.095 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.18 Mbit/s
95th percentile per-packet one-way delay: 92.095 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

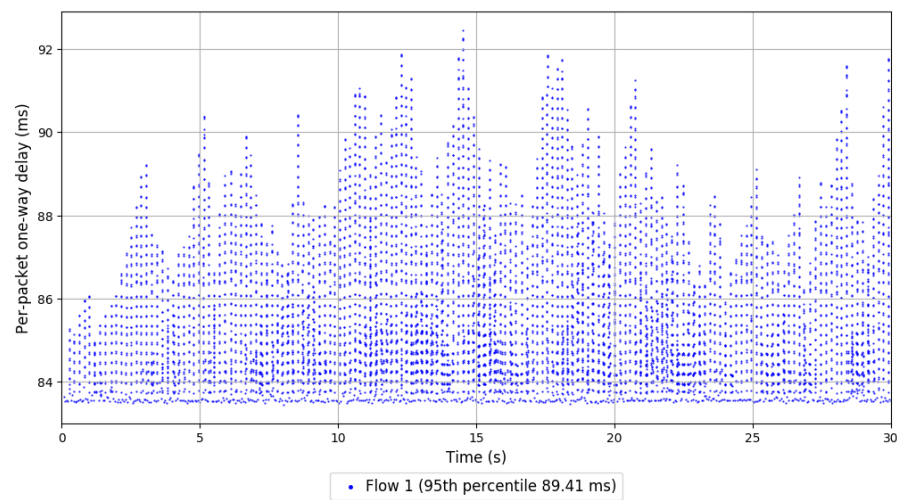
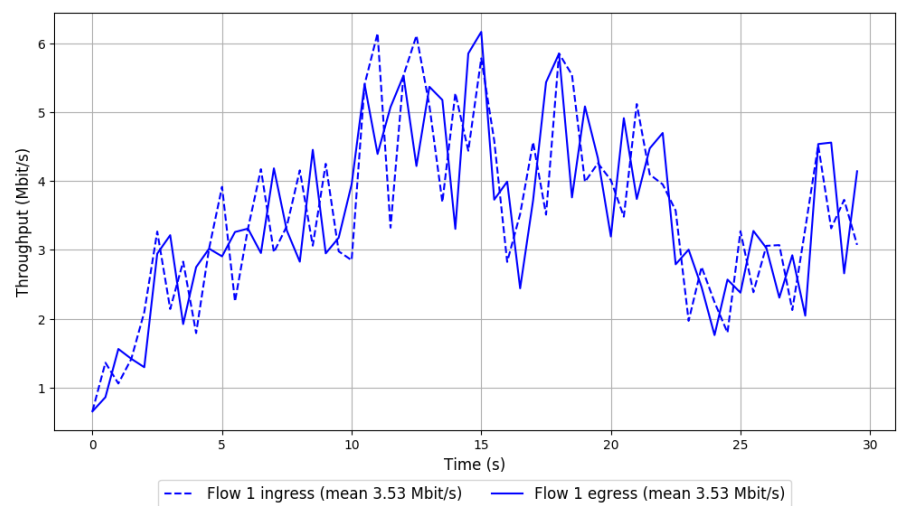


Run 10: Statistics of Sprout

Start at: 2018-01-02 03:30:51
End at: 2018-01-02 03:31:21
Local clock offset: -0.915 ms
Remote clock offset: -5.427 ms

Below is generated by plot.py at 2018-01-02 04:02:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.53 Mbit/s
95th percentile per-packet one-way delay: 89.405 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.53 Mbit/s
95th percentile per-packet one-way delay: 89.405 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

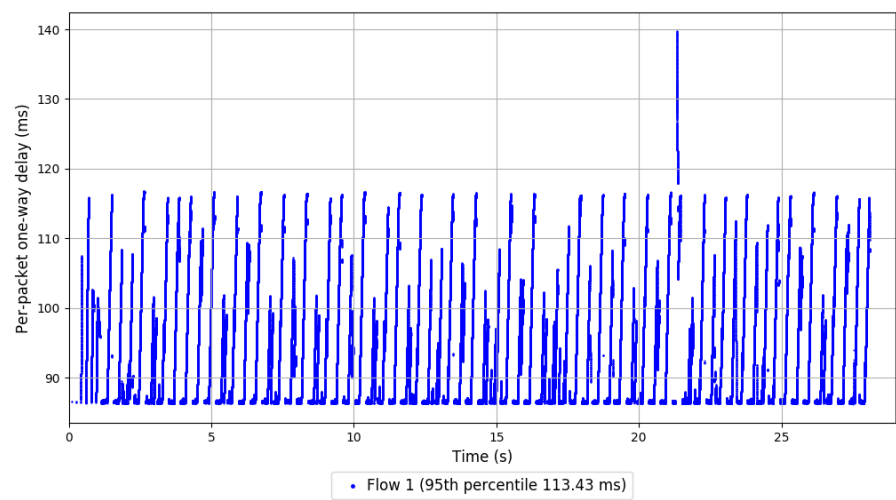
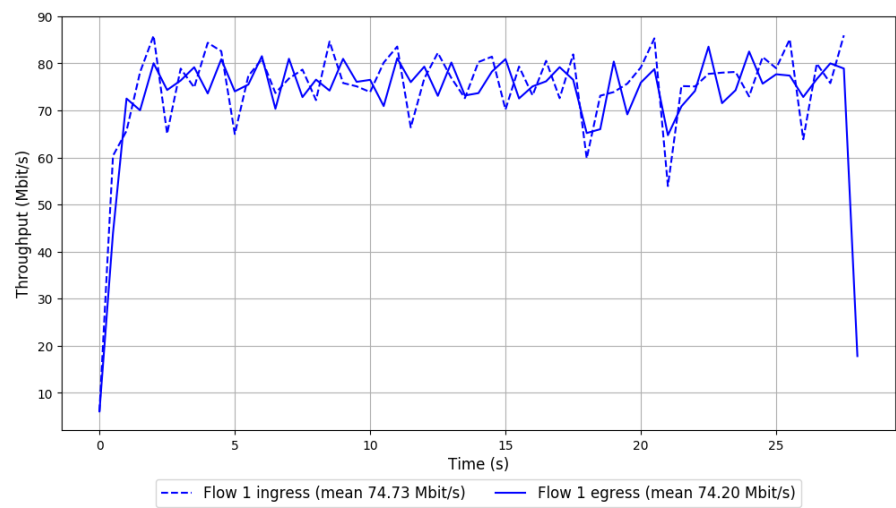


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-02 00:51:52
End at: 2018-01-02 00:52:22
Local clock offset: -1.559 ms
Remote clock offset: 0.806 ms

# Below is generated by plot.py at 2018-01-02 04:04:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.20 Mbit/s
95th percentile per-packet one-way delay: 113.428 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 74.20 Mbit/s
95th percentile per-packet one-way delay: 113.428 ms
Loss rate: 0.63%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2018-01-02 01:10:09

End at: 2018-01-02 01:10:39

Local clock offset: -1.281 ms

Remote clock offset: 1.163 ms

Below is generated by plot.py at 2018-01-02 04:04:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.17 Mbit/s

95th percentile per-packet one-way delay: 112.603 ms

Loss rate: 0.64%

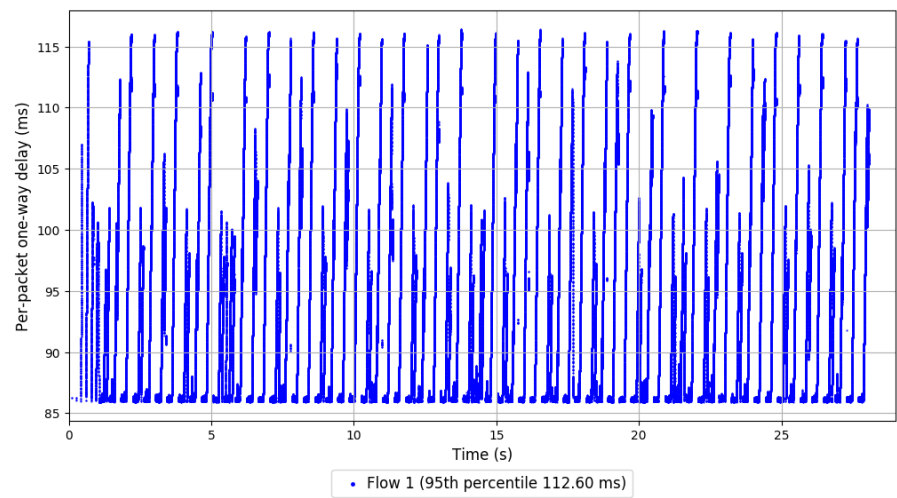
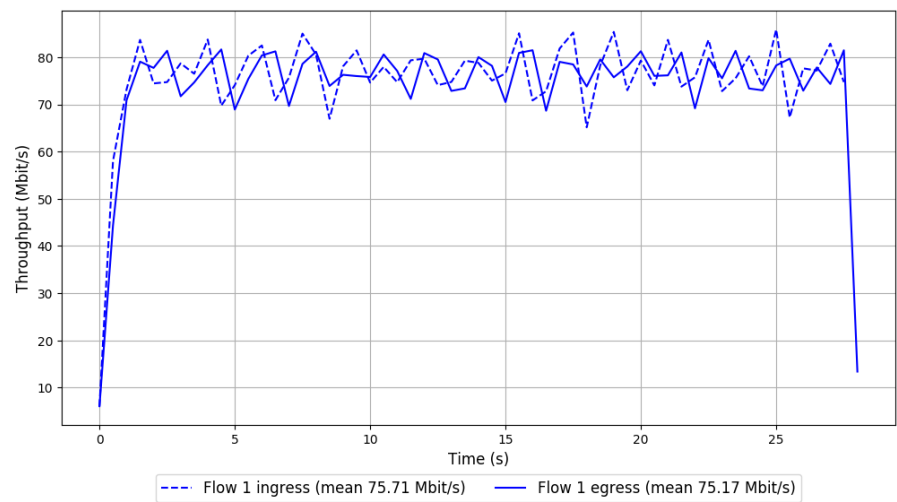
-- Flow 1:

Average throughput: 75.17 Mbit/s

95th percentile per-packet one-way delay: 112.603 ms

Loss rate: 0.64%

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

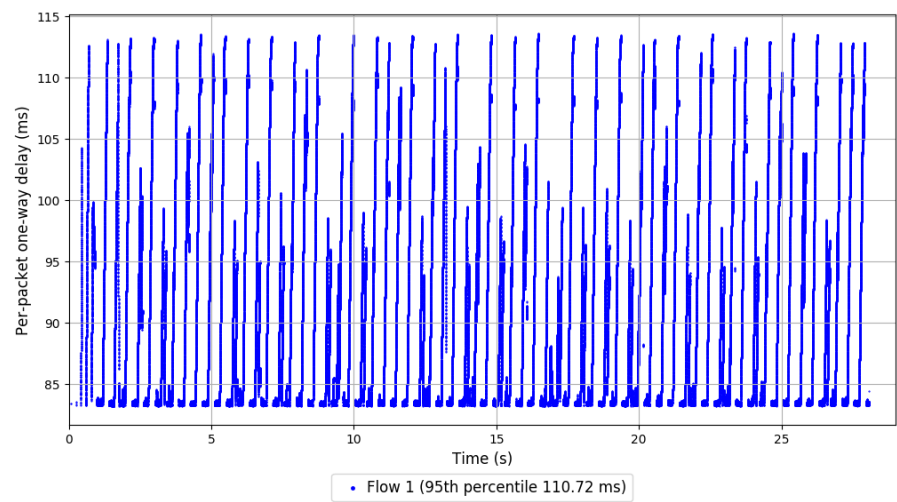
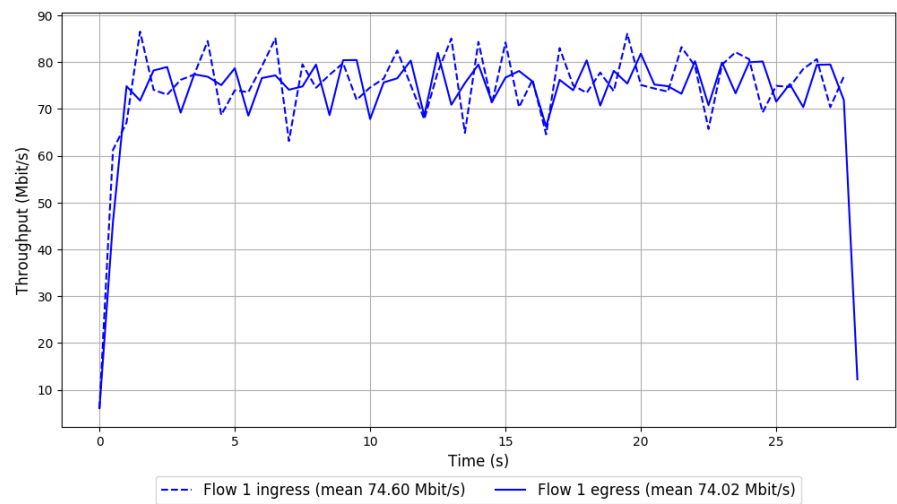


Run 3: Statistics of TaoVA-100x

Start at: 2018-01-02 01:28:20
End at: 2018-01-02 01:28:50
Local clock offset: -1.094 ms
Remote clock offset: -3.508 ms

Below is generated by plot.py at 2018-01-02 04:04:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.02 Mbit/s
95th percentile per-packet one-way delay: 110.716 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 74.02 Mbit/s
95th percentile per-packet one-way delay: 110.716 ms
Loss rate: 0.78%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-02 01:46:29

End at: 2018-01-02 01:46:59

Local clock offset: -0.608 ms

Remote clock offset: 0.711 ms

Below is generated by plot.py at 2018-01-02 04:04:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.84 Mbit/s

95th percentile per-packet one-way delay: 113.267 ms

Loss rate: 0.73%

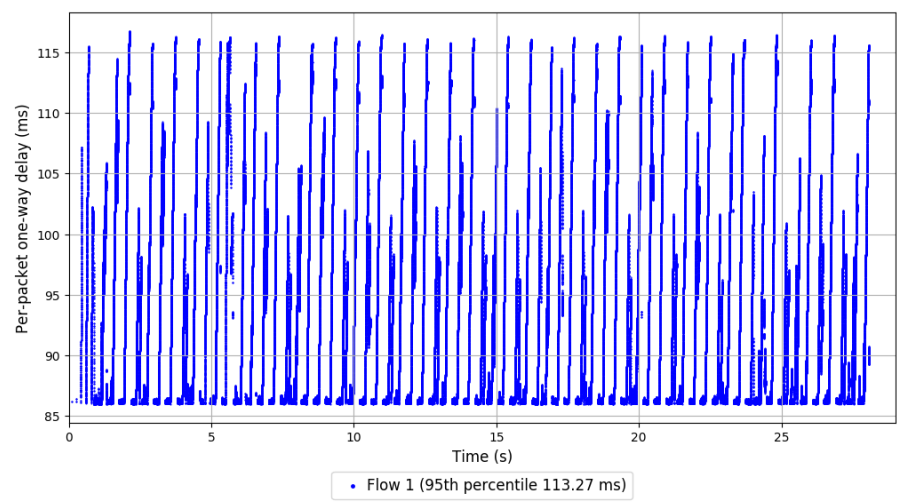
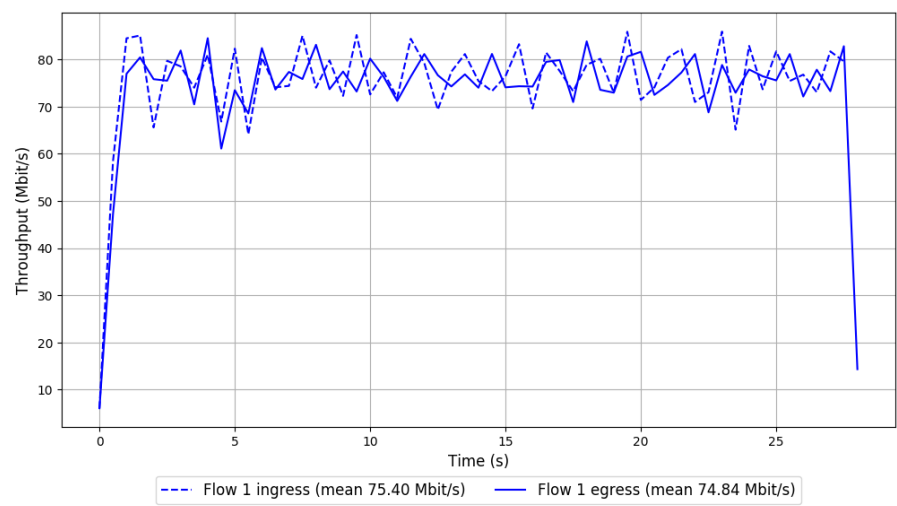
-- Flow 1:

Average throughput: 74.84 Mbit/s

95th percentile per-packet one-way delay: 113.267 ms

Loss rate: 0.73%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-02 02:04:42

End at: 2018-01-02 02:05:12

Local clock offset: -0.665 ms

Remote clock offset: -4.383 ms

Below is generated by plot.py at 2018-01-02 04:04:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.59 Mbit/s

95th percentile per-packet one-way delay: 111.354 ms

Loss rate: 0.95%

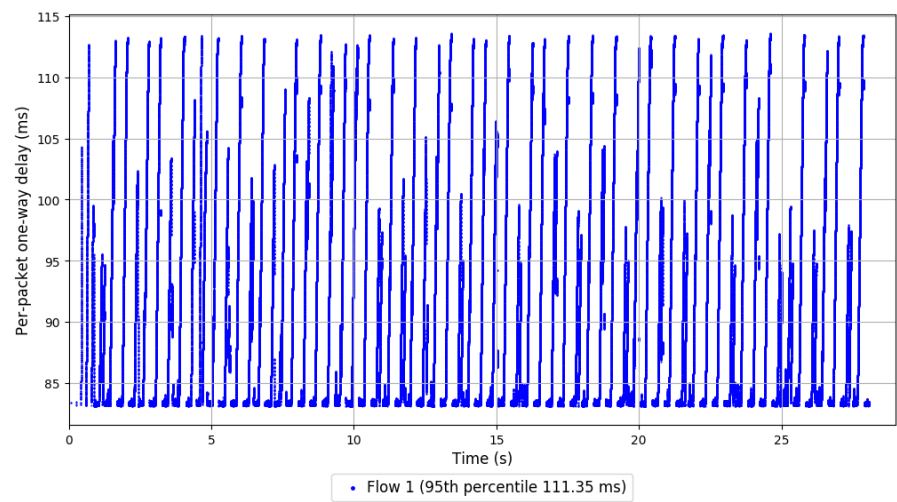
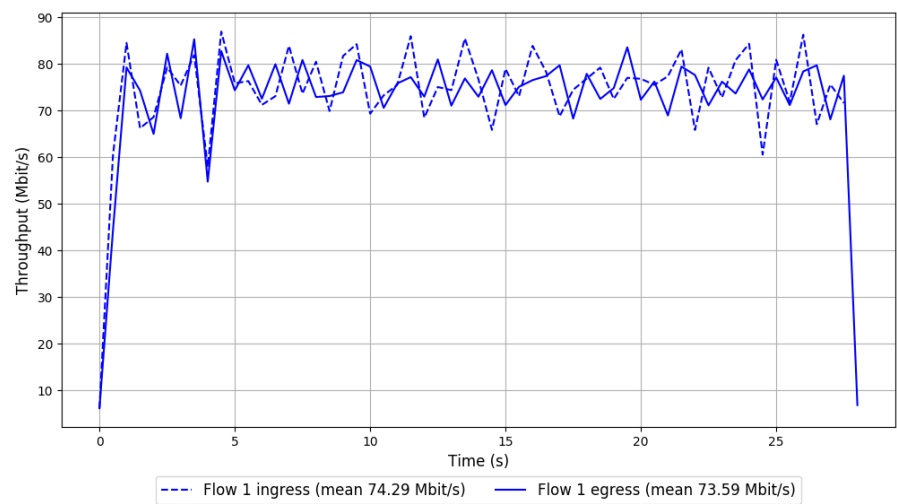
-- Flow 1:

Average throughput: 73.59 Mbit/s

95th percentile per-packet one-way delay: 111.354 ms

Loss rate: 0.95%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-02 02:22:57

End at: 2018-01-02 02:23:27

Local clock offset: -0.61 ms

Remote clock offset: 0.332 ms

Below is generated by plot.py at 2018-01-02 04:04:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.38 Mbit/s

95th percentile per-packet one-way delay: 112.757 ms

Loss rate: 0.68%

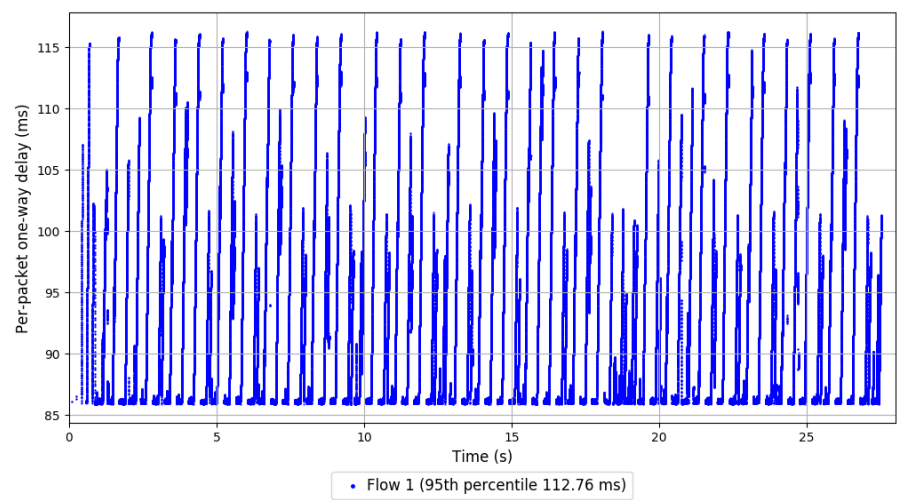
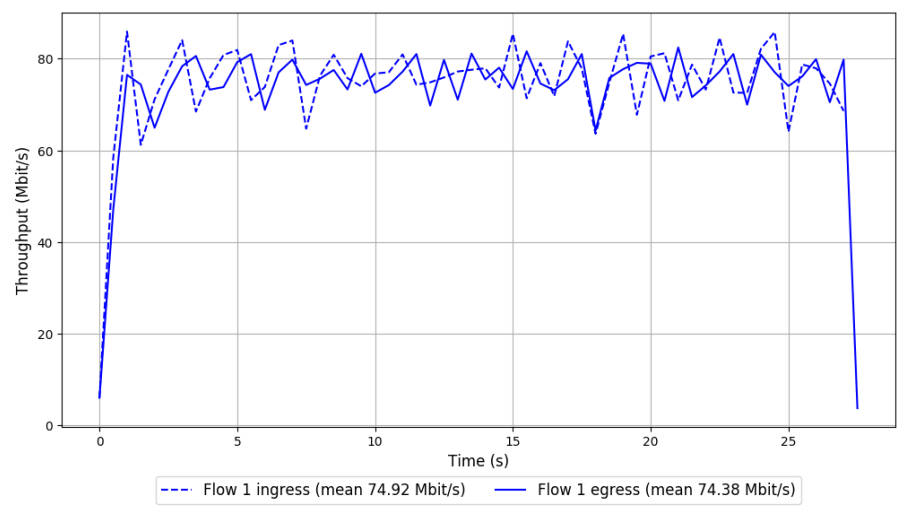
-- Flow 1:

Average throughput: 74.38 Mbit/s

95th percentile per-packet one-way delay: 112.757 ms

Loss rate: 0.68%

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

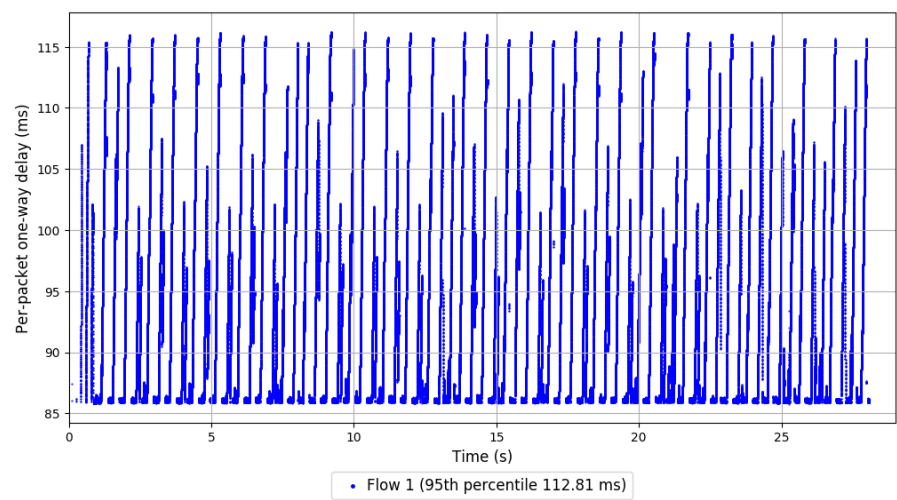
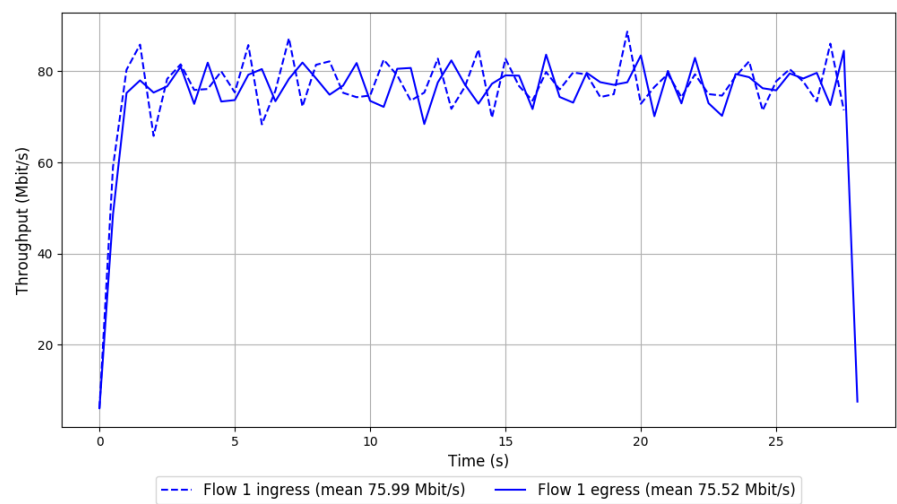


Run 7: Statistics of TaoVA-100x

Start at: 2018-01-02 02:41:08
End at: 2018-01-02 02:41:38
Local clock offset: -0.694 ms
Remote clock offset: -0.232 ms

Below is generated by plot.py at 2018-01-02 04:04:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.52 Mbit/s
95th percentile per-packet one-way delay: 112.810 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 75.52 Mbit/s
95th percentile per-packet one-way delay: 112.810 ms
Loss rate: 0.62%

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

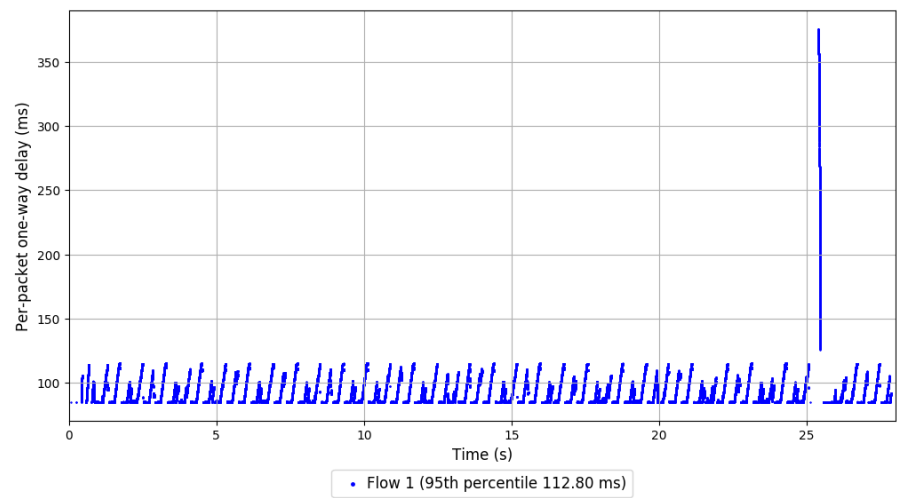
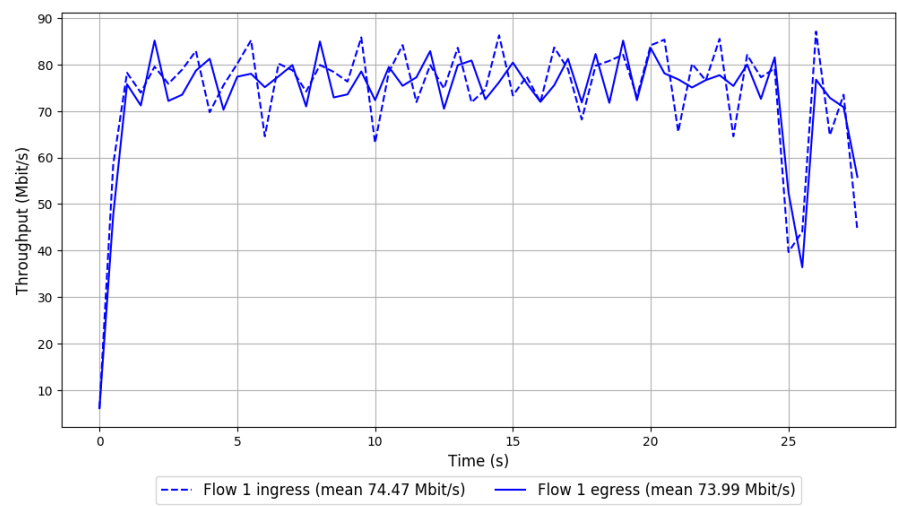


Run 8: Statistics of TaoVA-100x

Start at: 2018-01-02 02:59:19
End at: 2018-01-02 02:59:49
Local clock offset: -0.69 ms
Remote clock offset: -1.051 ms

Below is generated by plot.py at 2018-01-02 04:04:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.99 Mbit/s
95th percentile per-packet one-way delay: 112.801 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 73.99 Mbit/s
95th percentile per-packet one-way delay: 112.801 ms
Loss rate: 0.62%

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

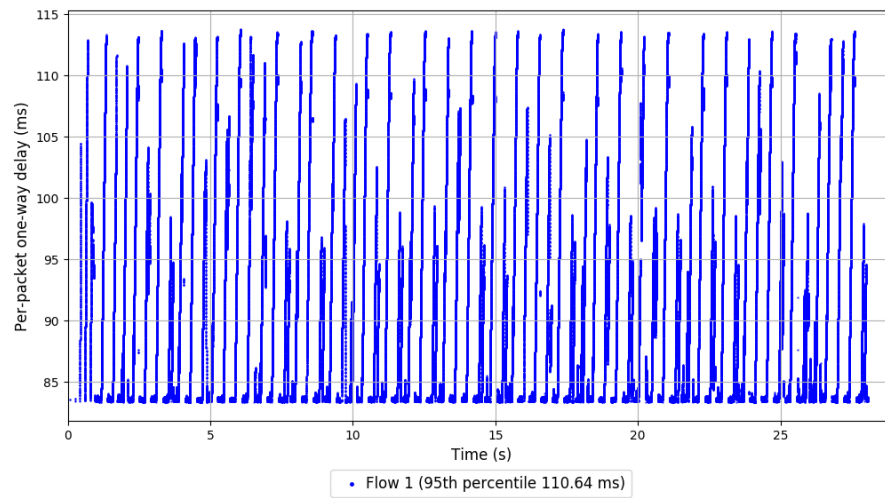
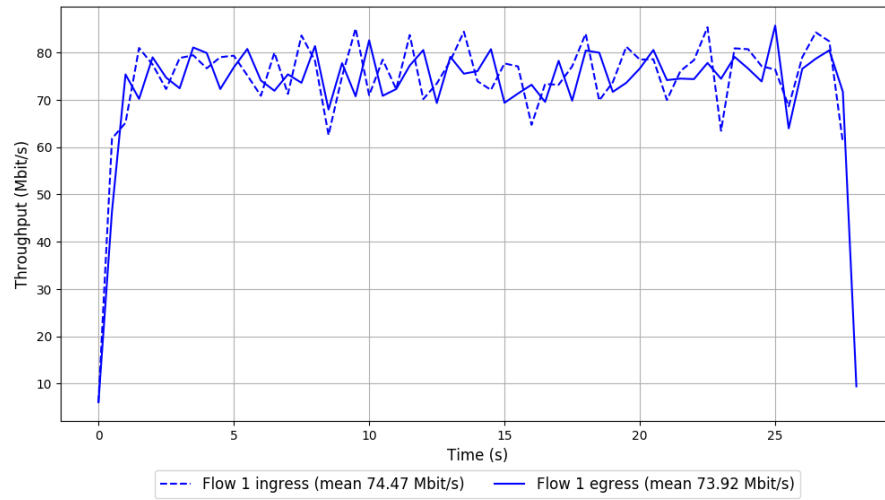


Run 9: Statistics of TaoVA-100x

Start at: 2018-01-02 03:17:35
End at: 2018-01-02 03:18:05
Local clock offset: -0.754 ms
Remote clock offset: -4.449 ms

Below is generated by plot.py at 2018-01-02 04:06:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.92 Mbit/s
95th percentile per-packet one-way delay: 110.637 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 73.92 Mbit/s
95th percentile per-packet one-way delay: 110.637 ms
Loss rate: 0.75%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-01-02 03:35:45

End at: 2018-01-02 03:36:15

Local clock offset: -0.877 ms

Remote clock offset: -5.452 ms

Below is generated by plot.py at 2018-01-02 04:06:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.56 Mbit/s

95th percentile per-packet one-way delay: 111.681 ms

Loss rate: 0.80%

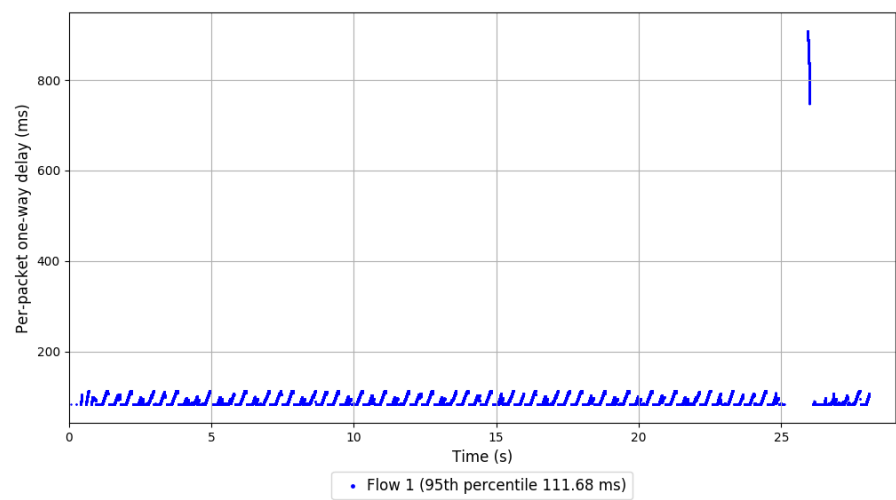
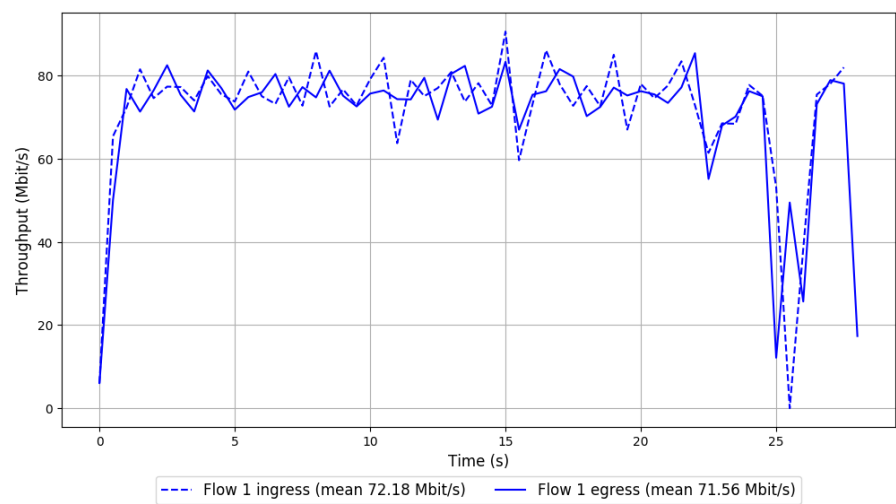
-- Flow 1:

Average throughput: 71.56 Mbit/s

95th percentile per-packet one-way delay: 111.681 ms

Loss rate: 0.80%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-02 00:42:06

End at: 2018-01-02 00:42:36

Local clock offset: -1.314 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2018-01-02 04:06:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.99 Mbit/s

95th percentile per-packet one-way delay: 88.178 ms

Loss rate: 0.00%

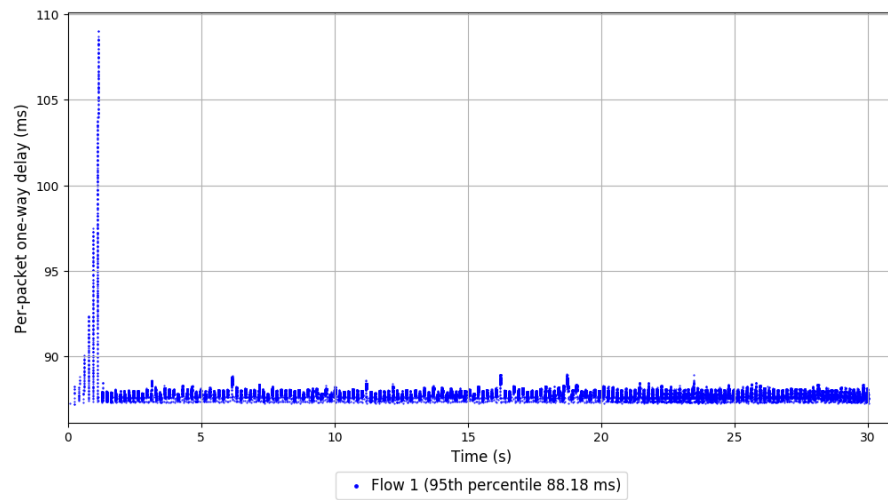
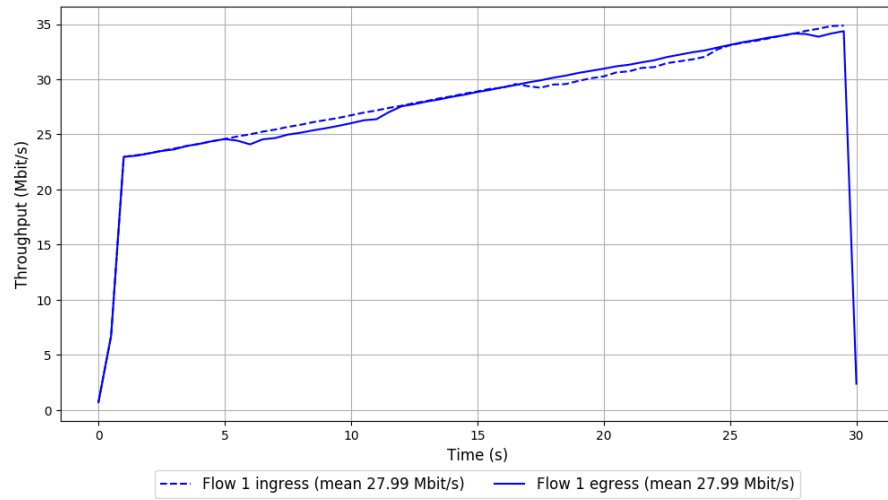
-- Flow 1:

Average throughput: 27.99 Mbit/s

95th percentile per-packet one-way delay: 88.178 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link

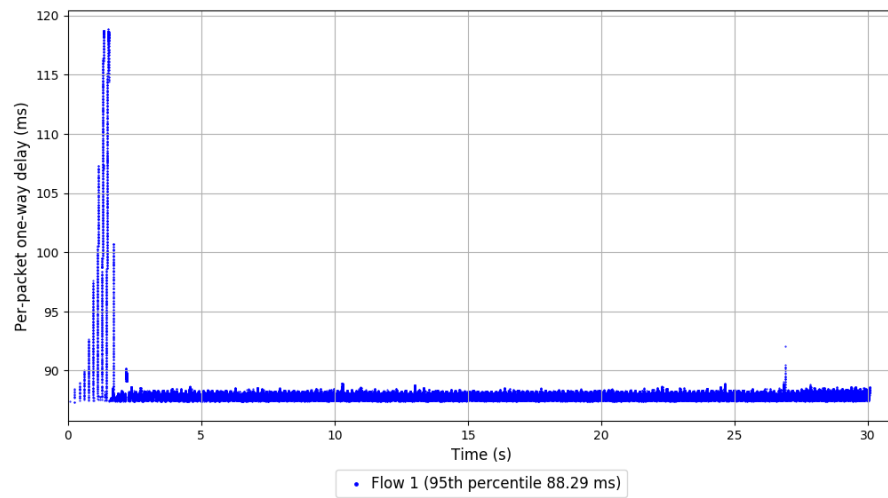
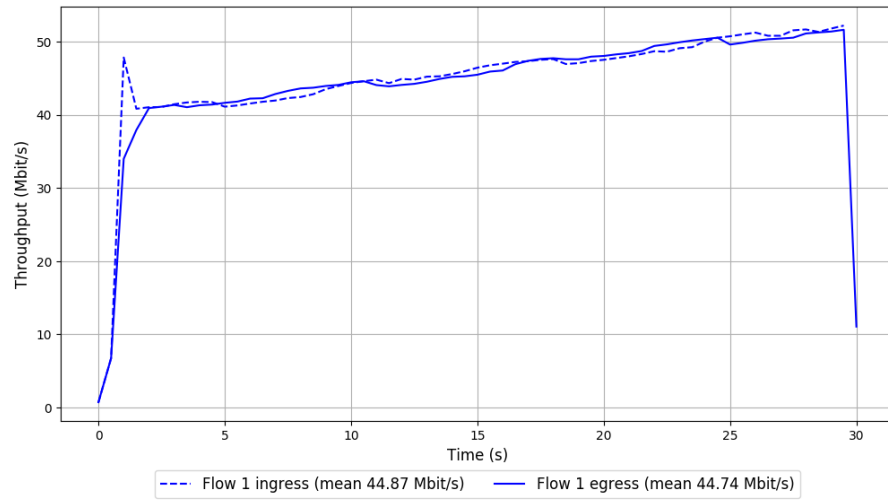


Run 2: Statistics of TCP Vegas

Start at: 2018-01-02 01:00:23
End at: 2018-01-02 01:00:53
Local clock offset: -1.518 ms
Remote clock offset: 1.242 ms

Below is generated by plot.py at 2018-01-02 04:06:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 44.74 Mbit/s
95th percentile per-packet one-way delay: 88.294 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 44.74 Mbit/s
95th percentile per-packet one-way delay: 88.294 ms
Loss rate: 0.28%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-02 01:18:36

End at: 2018-01-02 01:19:06

Local clock offset: -1.261 ms

Remote clock offset: -4.74 ms

Below is generated by plot.py at 2018-01-02 04:06:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.08 Mbit/s

95th percentile per-packet one-way delay: 80.653 ms

Loss rate: 0.23%

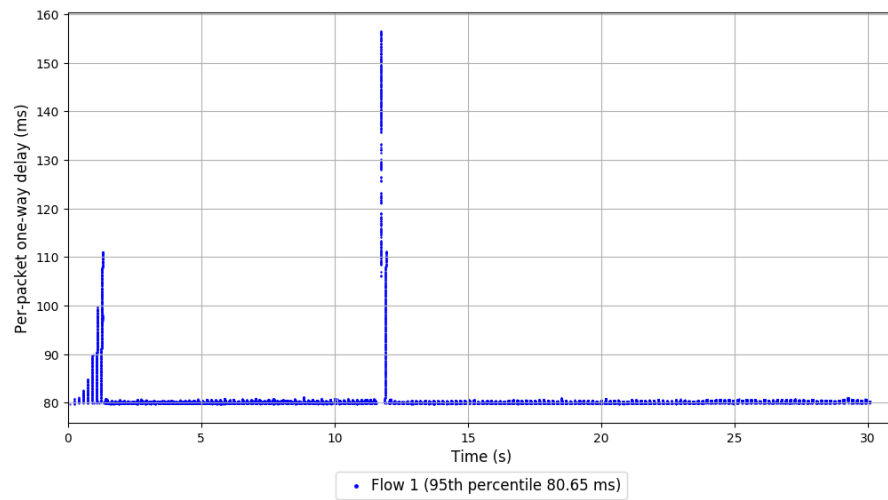
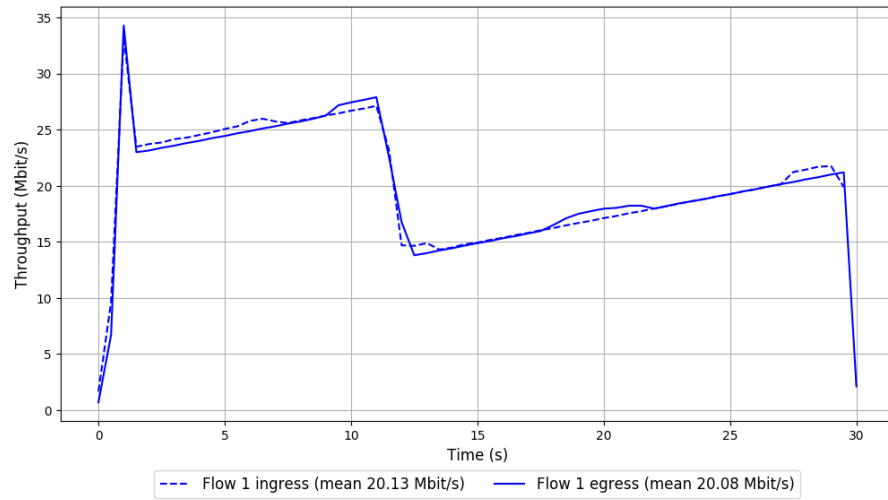
-- Flow 1:

Average throughput: 20.08 Mbit/s

95th percentile per-packet one-way delay: 80.653 ms

Loss rate: 0.23%

Run 3: Report of TCP Vegas — Data Link

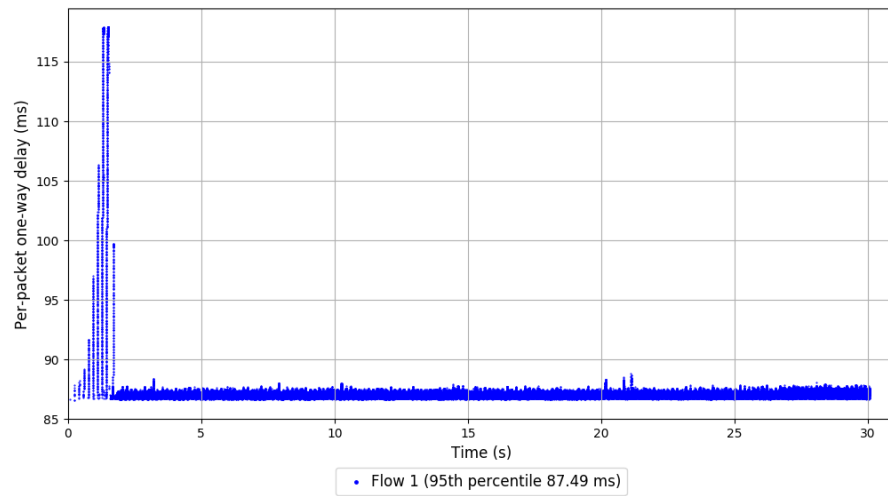
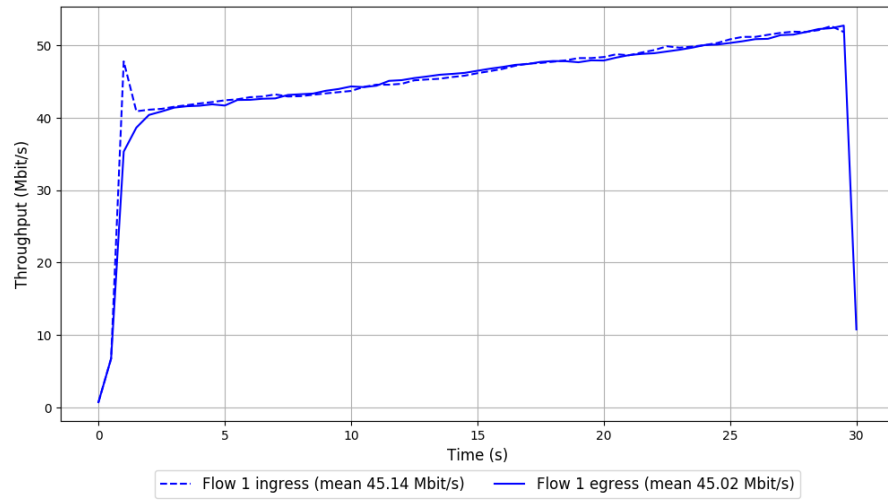


Run 4: Statistics of TCP Vegas

Start at: 2018-01-02 01:36:48
End at: 2018-01-02 01:37:18
Local clock offset: -0.897 ms
Remote clock offset: 0.817 ms

Below is generated by plot.py at 2018-01-02 04:06:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 45.02 Mbit/s
95th percentile per-packet one-way delay: 87.491 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 45.02 Mbit/s
95th percentile per-packet one-way delay: 87.491 ms
Loss rate: 0.28%

Run 4: Report of TCP Vegas — Data Link

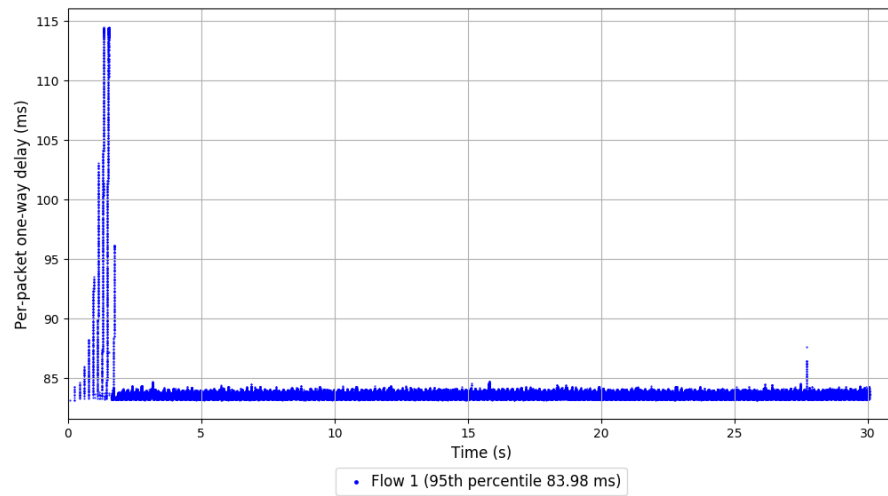
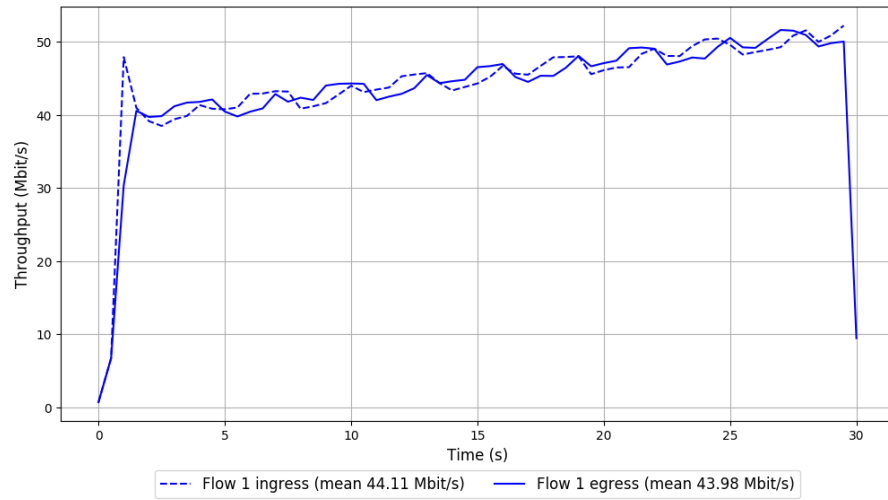


Run 5: Statistics of TCP Vegas

Start at: 2018-01-02 01:54:57
End at: 2018-01-02 01:55:27
Local clock offset: -0.614 ms
Remote clock offset: -4.802 ms

Below is generated by plot.py at 2018-01-02 04:06:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 43.98 Mbit/s
95th percentile per-packet one-way delay: 83.982 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 43.98 Mbit/s
95th percentile per-packet one-way delay: 83.982 ms
Loss rate: 0.28%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-02 02:13:12

End at: 2018-01-02 02:13:42

Local clock offset: -0.719 ms

Remote clock offset: 1.711 ms

Below is generated by plot.py at 2018-01-02 04:06:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.68 Mbit/s

95th percentile per-packet one-way delay: 90.667 ms

Loss rate: 0.09%

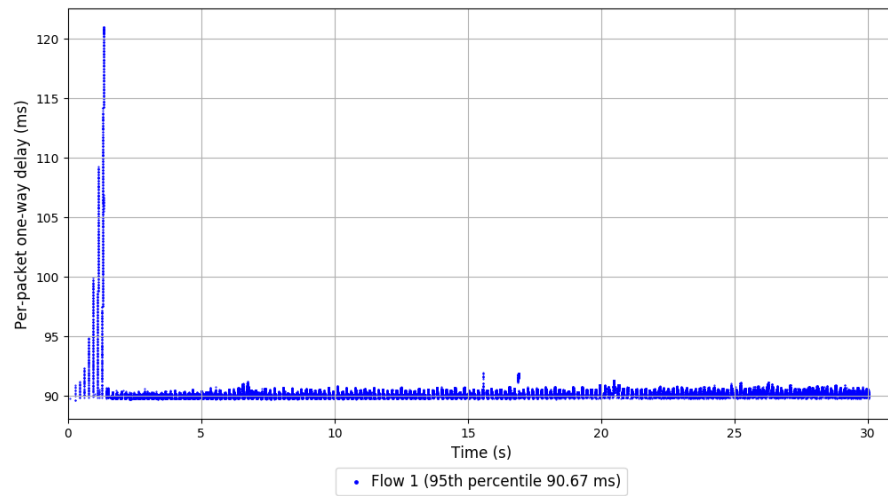
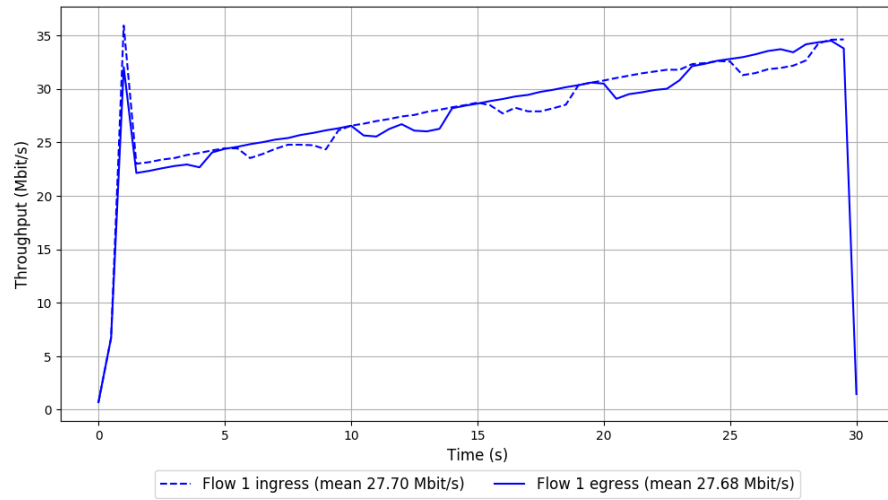
-- Flow 1:

Average throughput: 27.68 Mbit/s

95th percentile per-packet one-way delay: 90.667 ms

Loss rate: 0.09%

Run 6: Report of TCP Vegas — Data Link

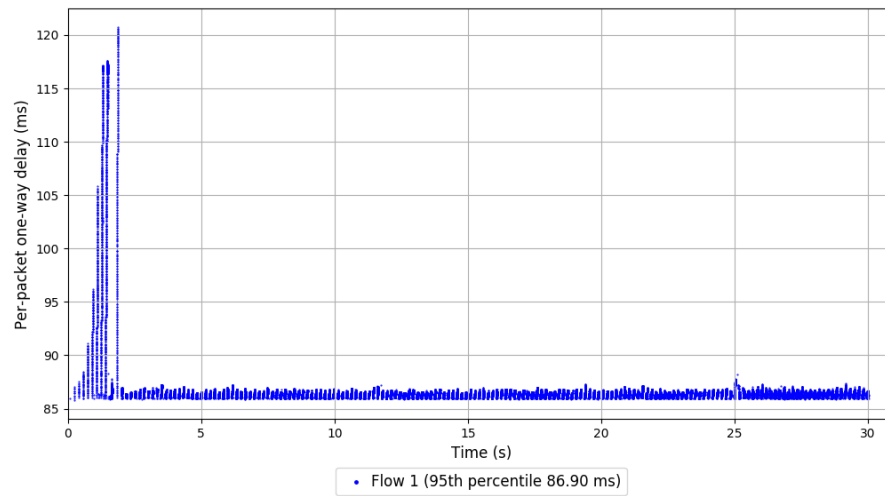
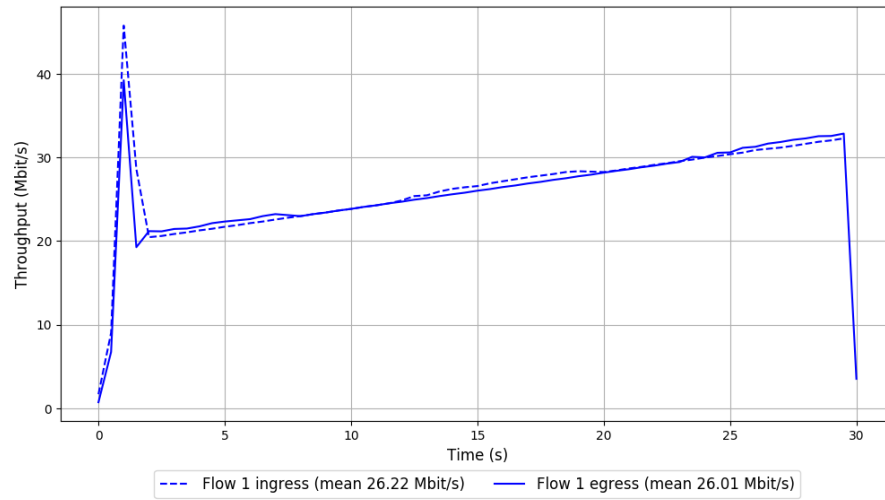


Run 7: Statistics of TCP Vegas

Start at: 2018-01-02 02:31:24
End at: 2018-01-02 02:31:54
Local clock offset: -0.639 ms
Remote clock offset: 0.28 ms

Below is generated by plot.py at 2018-01-02 04:06:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 26.01 Mbit/s
95th percentile per-packet one-way delay: 86.898 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 26.01 Mbit/s
95th percentile per-packet one-way delay: 86.898 ms
Loss rate: 0.79%

Run 7: Report of TCP Vegas — Data Link

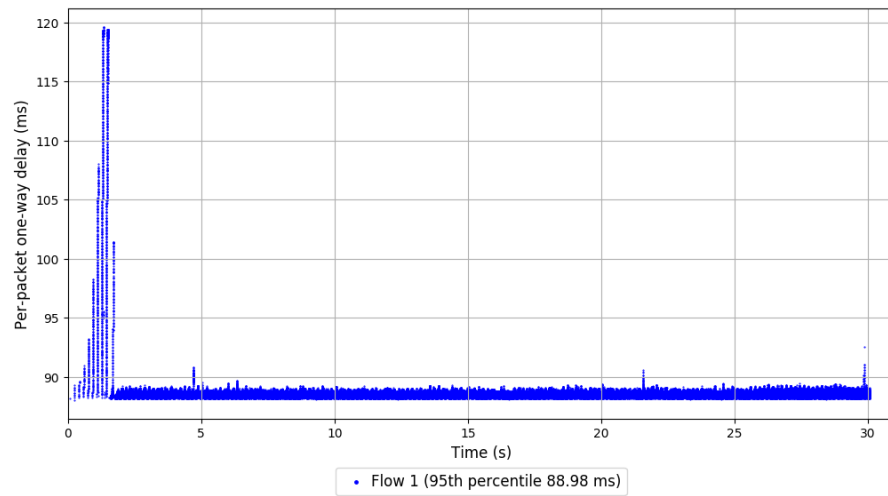
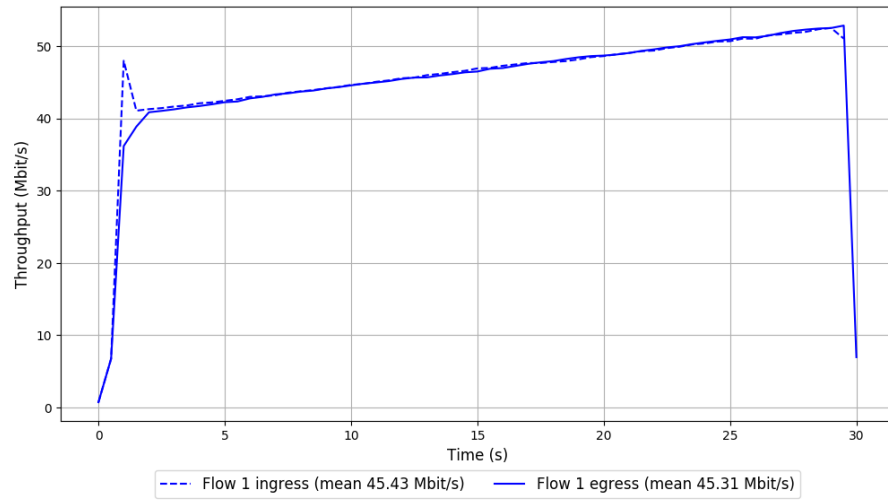


Run 8: Statistics of TCP Vegas

Start at: 2018-01-02 02:49:36
End at: 2018-01-02 02:50:06
Local clock offset: -0.73 ms
Remote clock offset: 0.43 ms

Below is generated by plot.py at 2018-01-02 04:06:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 45.31 Mbit/s
95th percentile per-packet one-way delay: 88.977 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 45.31 Mbit/s
95th percentile per-packet one-way delay: 88.977 ms
Loss rate: 0.29%

Run 8: Report of TCP Vegas — Data Link

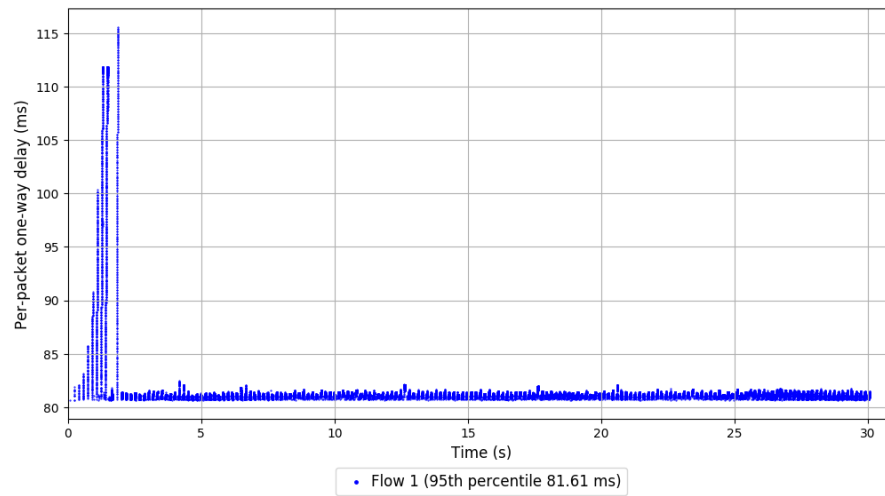
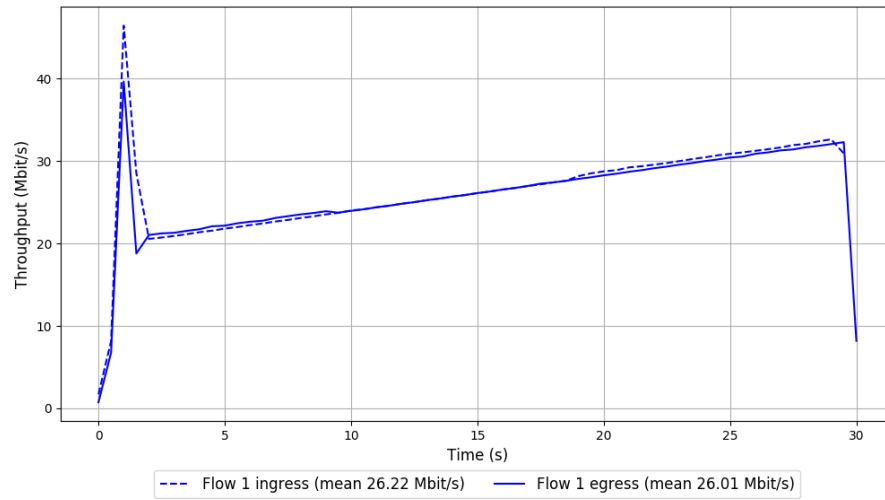


Run 9: Statistics of TCP Vegas

Start at: 2018-01-02 03:07:50
End at: 2018-01-02 03:08:21
Local clock offset: -0.711 ms
Remote clock offset: -5.939 ms

Below is generated by plot.py at 2018-01-02 04:06:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 26.01 Mbit/s
95th percentile per-packet one-way delay: 81.609 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 26.01 Mbit/s
95th percentile per-packet one-way delay: 81.609 ms
Loss rate: 0.80%

Run 9: Report of TCP Vegas — Data Link

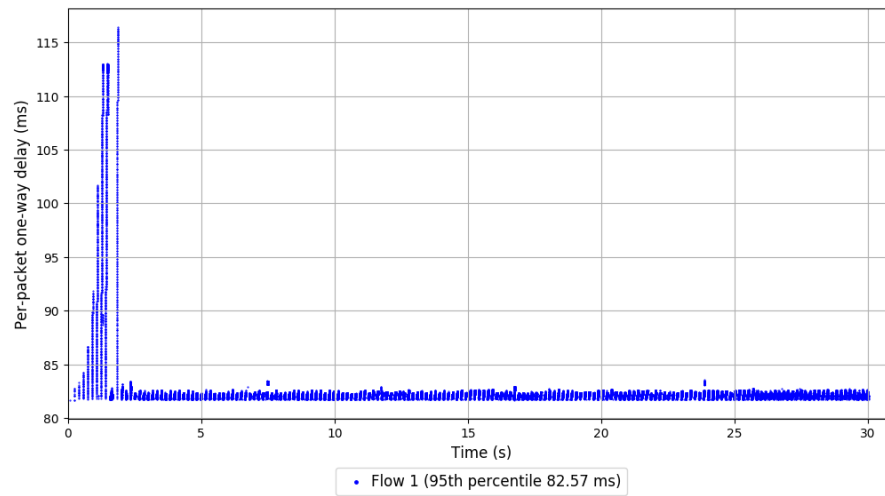
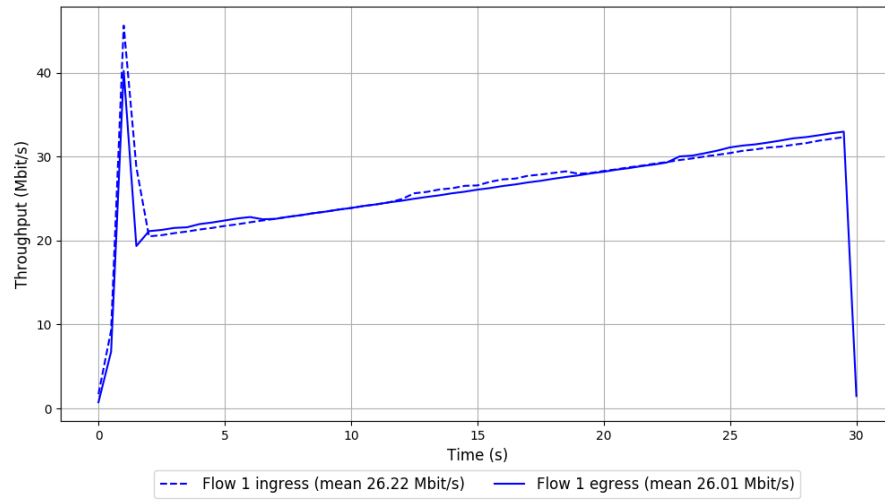


Run 10: Statistics of TCP Vegas

Start at: 2018-01-02 03:26:02
End at: 2018-01-02 03:26:32
Local clock offset: -0.822 ms
Remote clock offset: -4.974 ms

Below is generated by plot.py at 2018-01-02 04:06:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 26.01 Mbit/s
95th percentile per-packet one-way delay: 82.571 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 26.01 Mbit/s
95th percentile per-packet one-way delay: 82.571 ms
Loss rate: 0.79%

Run 10: Report of TCP Vegas — Data Link

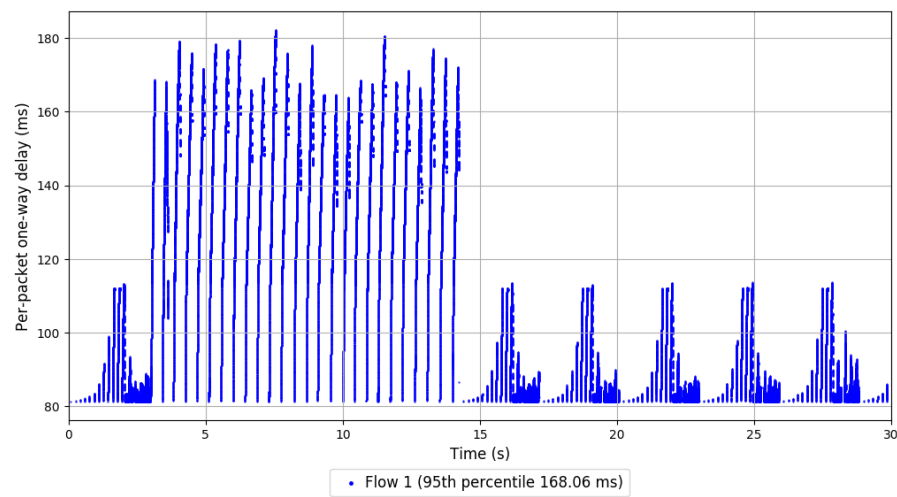
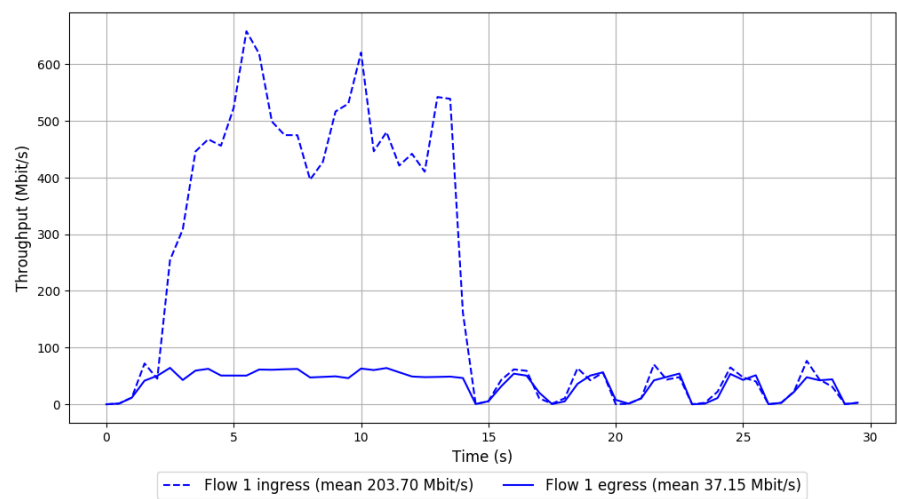


Run 1: Statistics of Verus

Start at: 2018-01-02 00:43:17
End at: 2018-01-02 00:43:47
Local clock offset: -1.324 ms
Remote clock offset: -4.477 ms

Below is generated by plot.py at 2018-01-02 04:06:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 37.15 Mbit/s
95th percentile per-packet one-way delay: 168.058 ms
Loss rate: 81.76%
-- Flow 1:
Average throughput: 37.15 Mbit/s
95th percentile per-packet one-way delay: 168.058 ms
Loss rate: 81.76%

Run 1: Report of Verus — Data Link

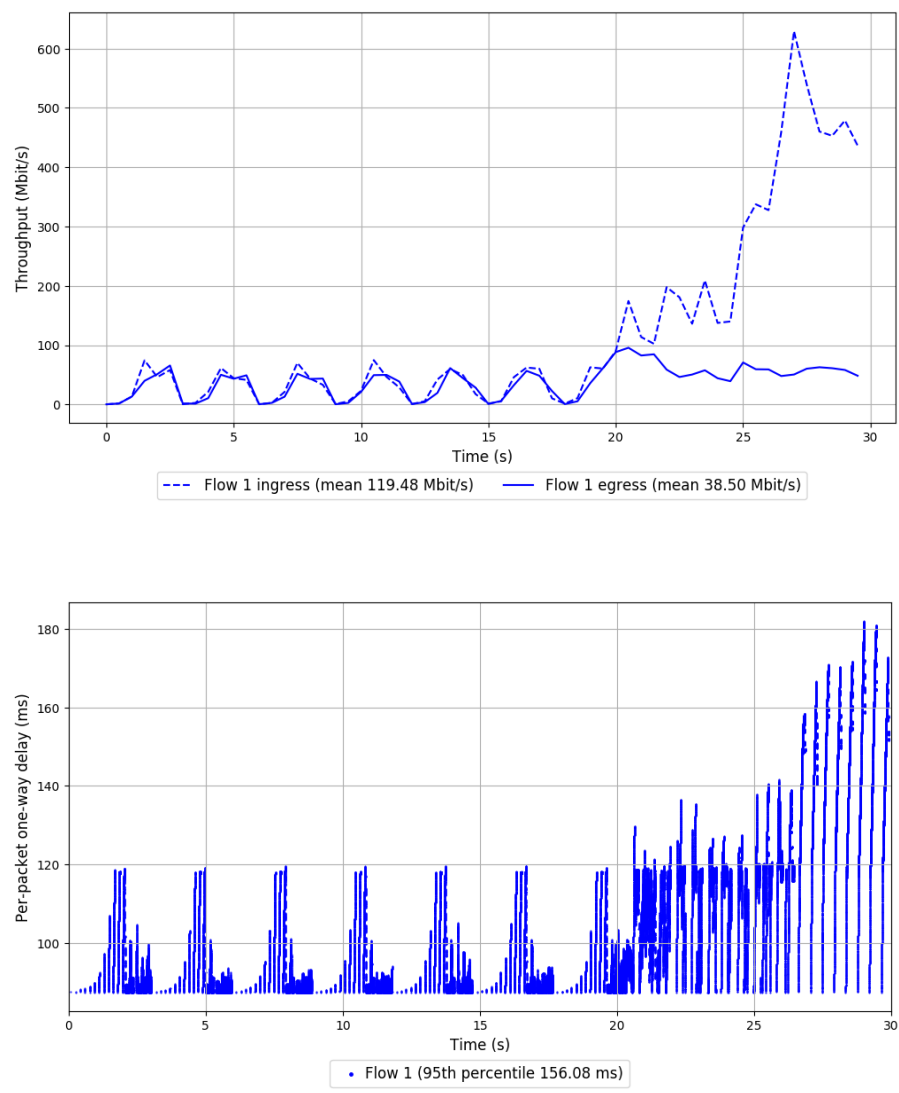


Run 2: Statistics of Verus

Start at: 2018-01-02 01:01:35
End at: 2018-01-02 01:02:05
Local clock offset: -1.482 ms
Remote clock offset: 0.772 ms

Below is generated by plot.py at 2018-01-02 04:06:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 38.50 Mbit/s
95th percentile per-packet one-way delay: 156.076 ms
Loss rate: 67.70%
-- Flow 1:
Average throughput: 38.50 Mbit/s
95th percentile per-packet one-way delay: 156.076 ms
Loss rate: 67.70%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-02 01:19:47

End at: 2018-01-02 01:20:17

Local clock offset: -1.337 ms

Remote clock offset: 1.054 ms

Below is generated by plot.py at 2018-01-02 04:06:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.02 Mbit/s

95th percentile per-packet one-way delay: 157.184 ms

Loss rate: 74.51%

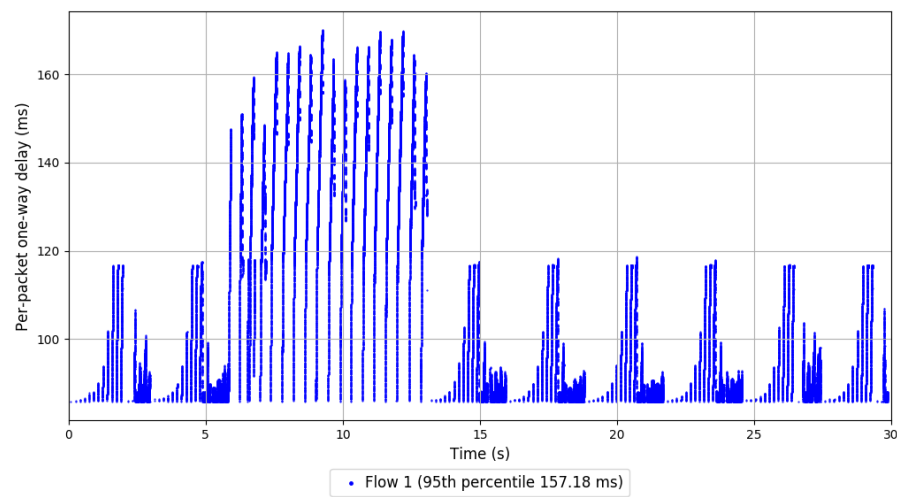
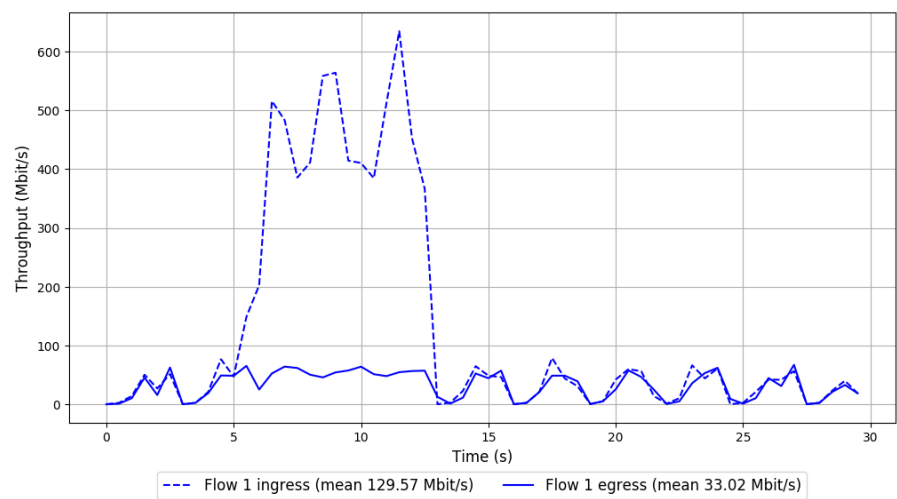
-- Flow 1:

Average throughput: 33.02 Mbit/s

95th percentile per-packet one-way delay: 157.184 ms

Loss rate: 74.51%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

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

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

Local clock offset: -0.897 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2018-01-02 04:06:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.69 Mbit/s

95th percentile per-packet one-way delay: 117.520 ms

Loss rate: 9.98%

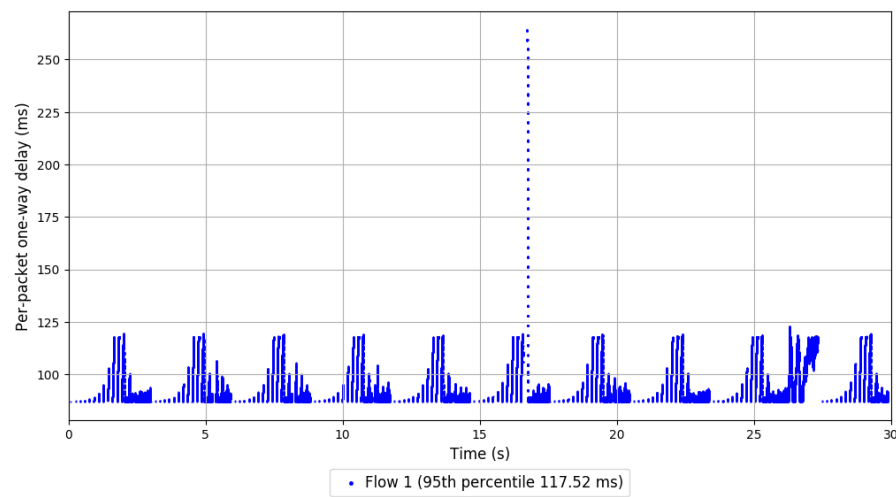
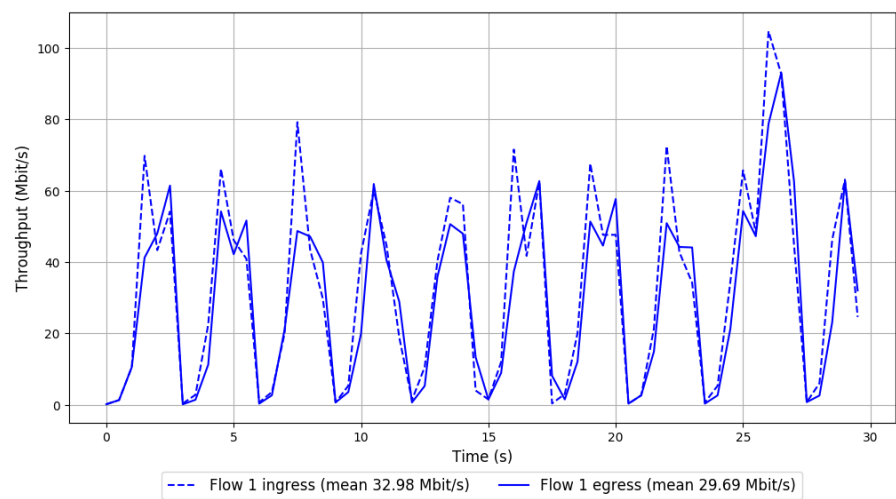
-- Flow 1:

Average throughput: 29.69 Mbit/s

95th percentile per-packet one-way delay: 117.520 ms

Loss rate: 9.98%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-02 01:56:09

End at: 2018-01-02 01:56:39

Local clock offset: -0.578 ms

Remote clock offset: 0.116 ms

Below is generated by plot.py at 2018-01-02 04:06:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.63 Mbit/s

95th percentile per-packet one-way delay: 123.734 ms

Loss rate: 41.37%

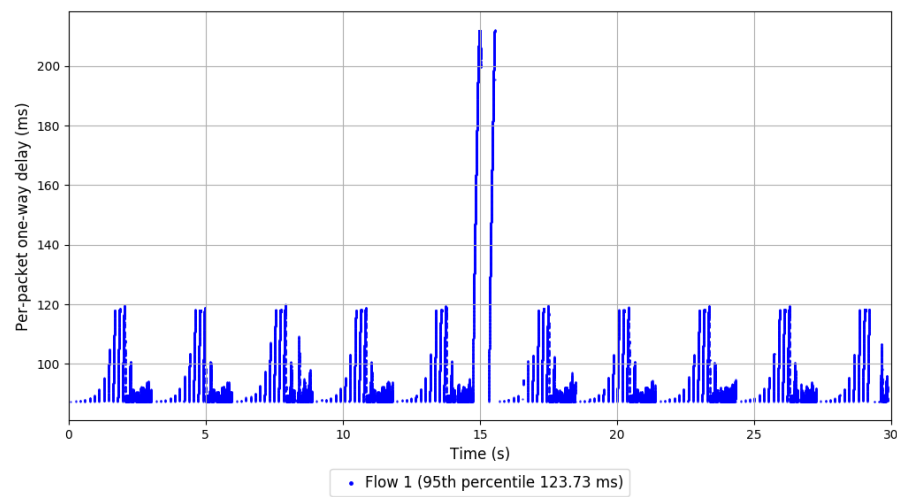
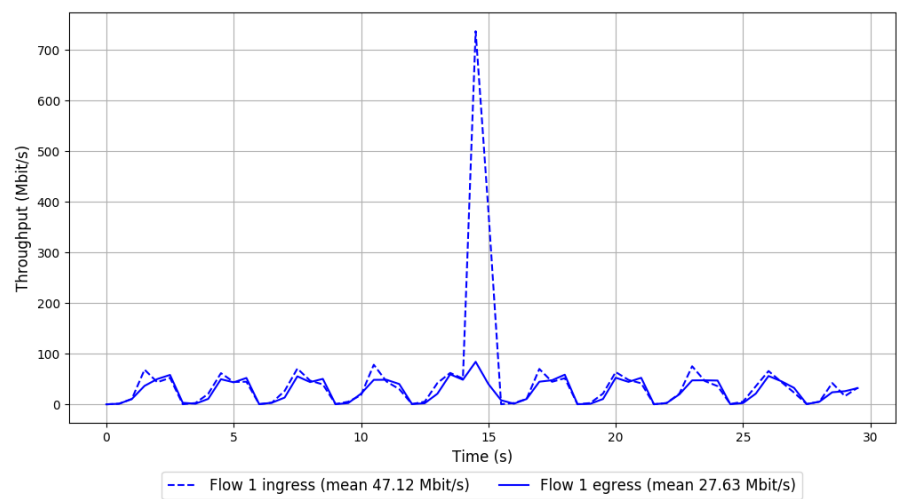
-- Flow 1:

Average throughput: 27.63 Mbit/s

95th percentile per-packet one-way delay: 123.734 ms

Loss rate: 41.37%

Run 5: Report of Verus — Data Link

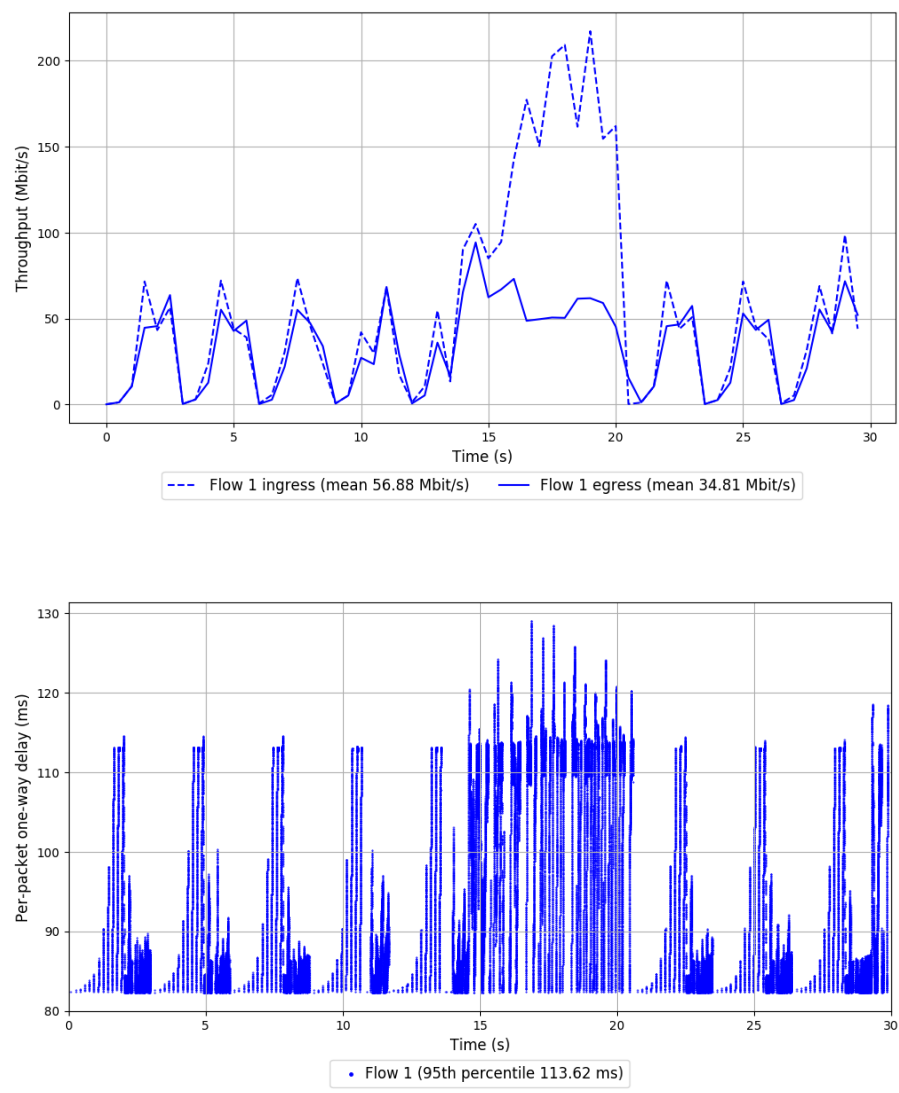


Run 6: Statistics of Verus

Start at: 2018-01-02 02:14:24
End at: 2018-01-02 02:14:54
Local clock offset: -0.786 ms
Remote clock offset: -5.297 ms

Below is generated by plot.py at 2018-01-02 04:06:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 34.81 Mbit/s
95th percentile per-packet one-way delay: 113.625 ms
Loss rate: 38.74%
-- Flow 1:
Average throughput: 34.81 Mbit/s
95th percentile per-packet one-way delay: 113.625 ms
Loss rate: 38.74%

Run 6: Report of Verus — Data Link

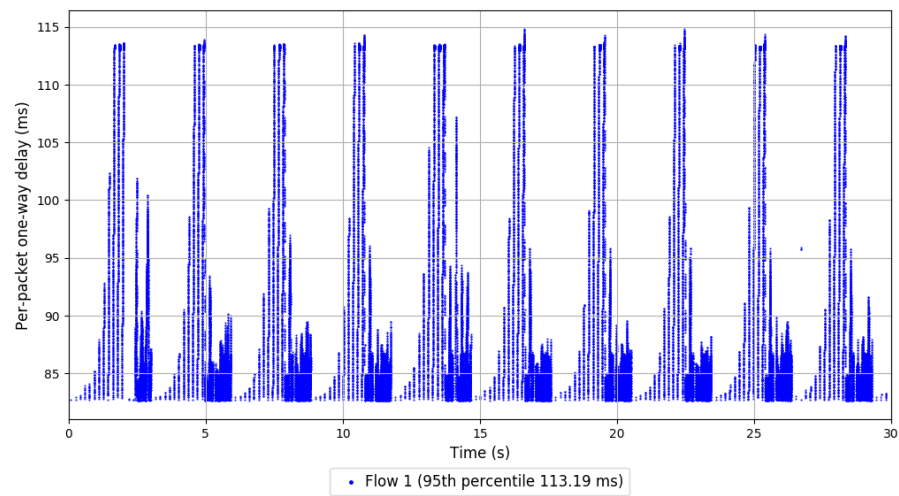
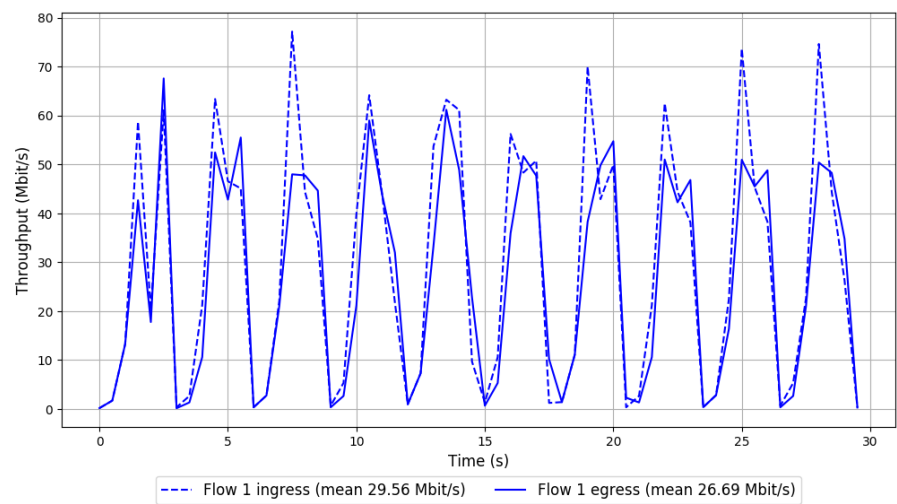


Run 7: Statistics of Verus

Start at: 2018-01-02 02:32:35
End at: 2018-01-02 02:33:05
Local clock offset: -0.638 ms
Remote clock offset: -5.453 ms

Below is generated by plot.py at 2018-01-02 04:06:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 26.69 Mbit/s
95th percentile per-packet one-way delay: 113.195 ms
Loss rate: 9.70%
-- Flow 1:
Average throughput: 26.69 Mbit/s
95th percentile per-packet one-way delay: 113.195 ms
Loss rate: 9.70%

Run 7: Report of Verus — Data Link

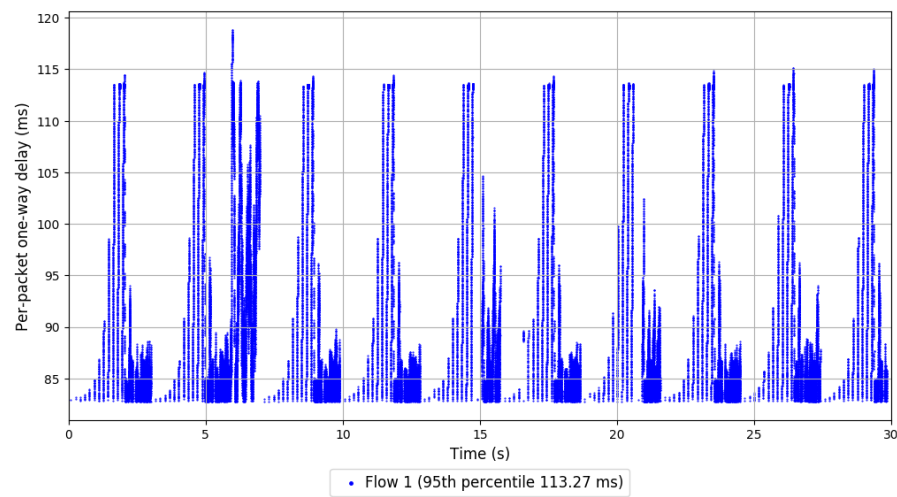
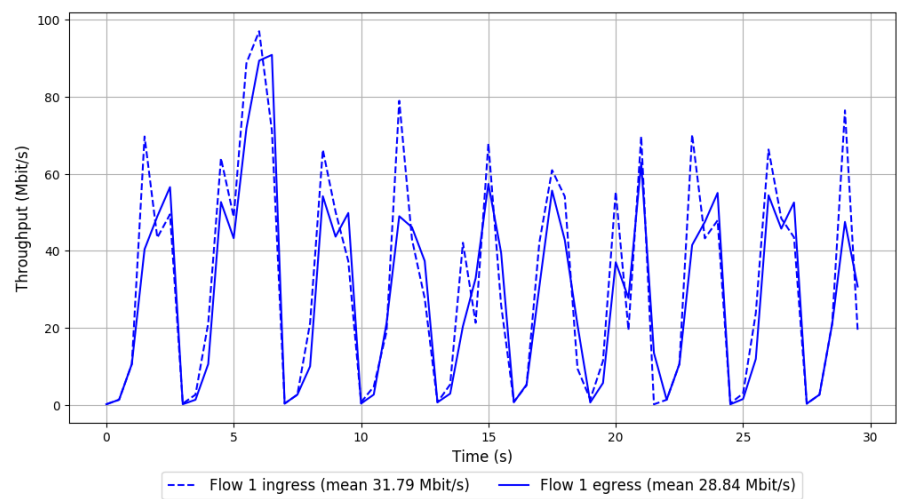


Run 8: Statistics of Verus

Start at: 2018-01-02 02:50:48
End at: 2018-01-02 02:51:18
Local clock offset: -0.68 ms
Remote clock offset: -5.654 ms

Below is generated by plot.py at 2018-01-02 04:06:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 28.84 Mbit/s
95th percentile per-packet one-way delay: 113.265 ms
Loss rate: 9.27%
-- Flow 1:
Average throughput: 28.84 Mbit/s
95th percentile per-packet one-way delay: 113.265 ms
Loss rate: 9.27%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-02 03:09:02

End at: 2018-01-02 03:09:32

Local clock offset: -0.723 ms

Remote clock offset: 0.578 ms

Below is generated by plot.py at 2018-01-02 04:06:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.89 Mbit/s

95th percentile per-packet one-way delay: 147.447 ms

Loss rate: 65.12%

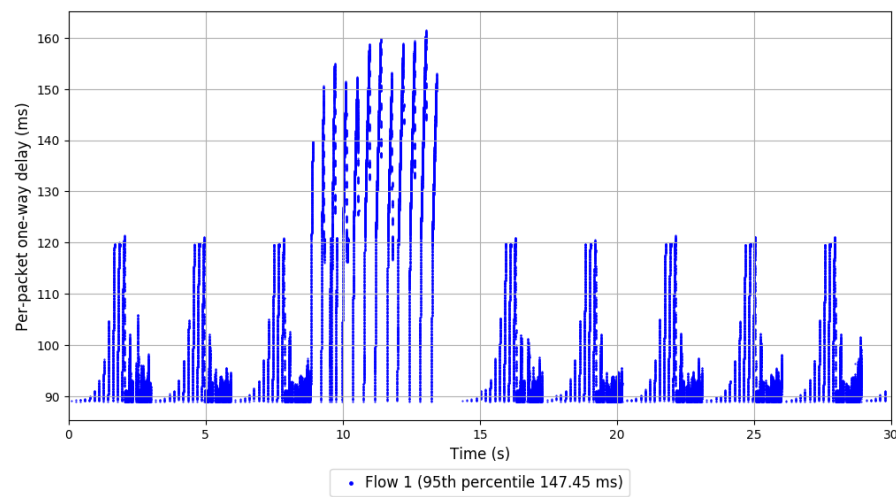
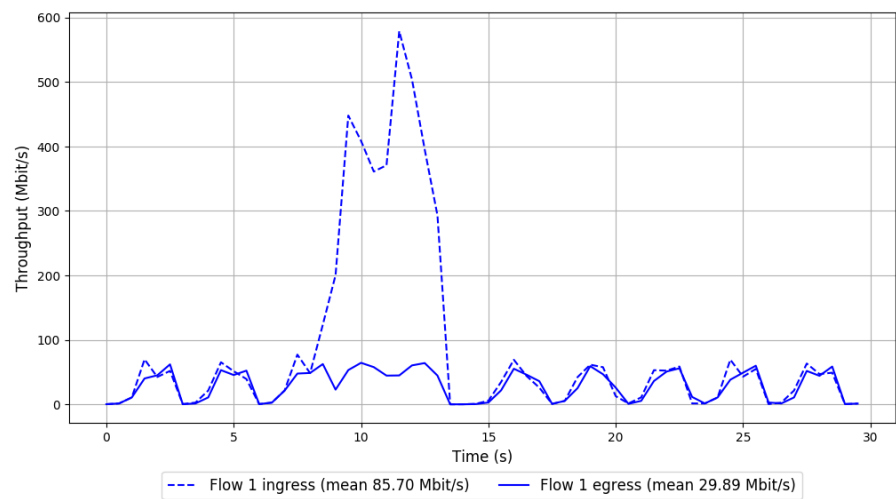
-- Flow 1:

Average throughput: 29.89 Mbit/s

95th percentile per-packet one-way delay: 147.447 ms

Loss rate: 65.12%

Run 9: Report of Verus — Data Link

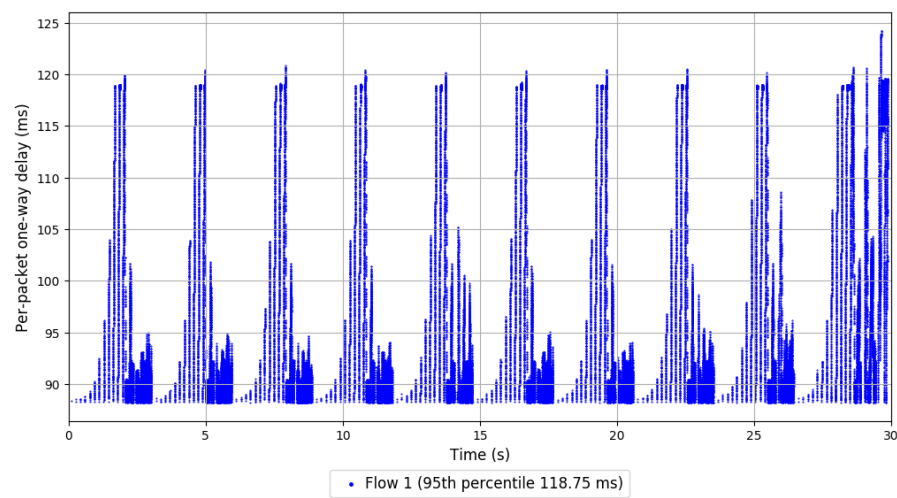
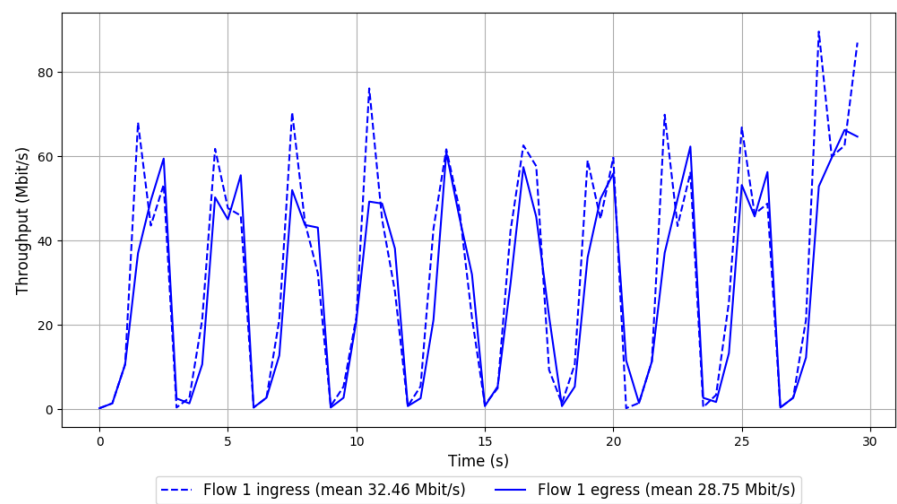


Run 10: Statistics of Verus

Start at: 2018-01-02 03:27:14
End at: 2018-01-02 03:27:44
Local clock offset: -0.844 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2018-01-02 04:06:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 28.75 Mbit/s
95th percentile per-packet one-way delay: 118.745 ms
Loss rate: 11.39%
-- Flow 1:
Average throughput: 28.75 Mbit/s
95th percentile per-packet one-way delay: 118.745 ms
Loss rate: 11.39%

Run 10: Report of Verus — Data Link

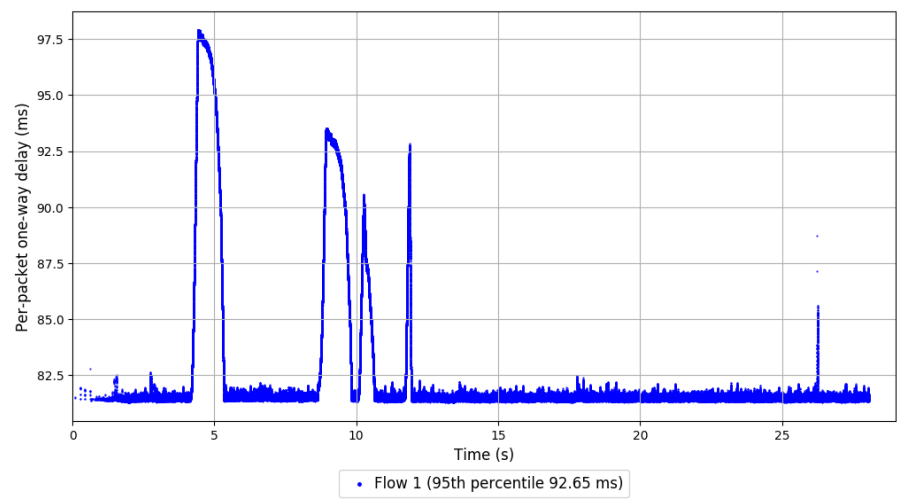
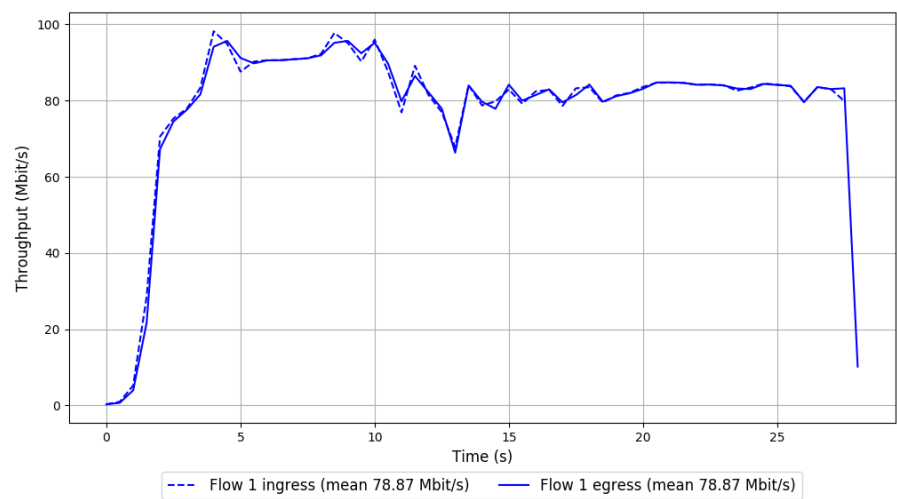


Run 1: Statistics of Copa

Start at: 2018-01-02 00:38:24
End at: 2018-01-02 00:38:54
Local clock offset: -1.199 ms
Remote clock offset: -3.694 ms

Below is generated by plot.py at 2018-01-02 04:08:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.87 Mbit/s
95th percentile per-packet one-way delay: 92.647 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 78.87 Mbit/s
95th percentile per-packet one-way delay: 92.647 ms
Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-02 00:56:41

End at: 2018-01-02 00:57:11

Local clock offset: -1.665 ms

Remote clock offset: 0.669 ms

Below is generated by plot.py at 2018-01-02 04:08:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.44 Mbit/s

95th percentile per-packet one-way delay: 93.524 ms

Loss rate: 0.00%

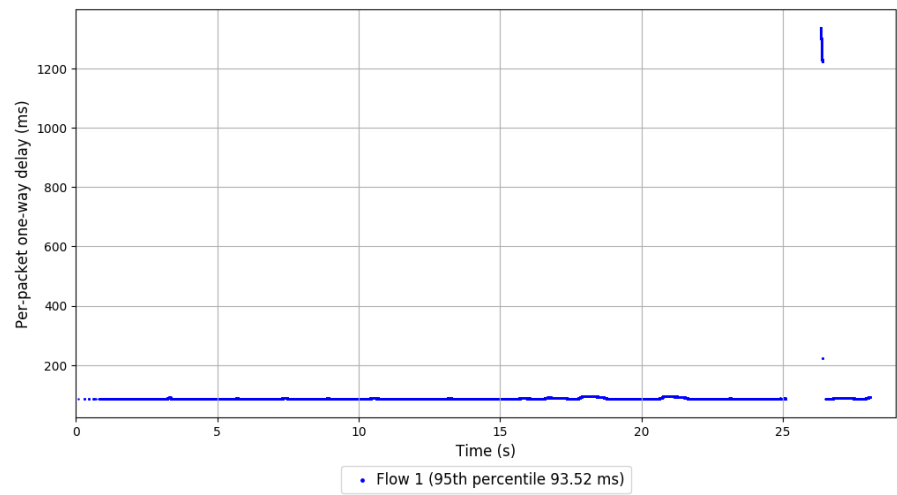
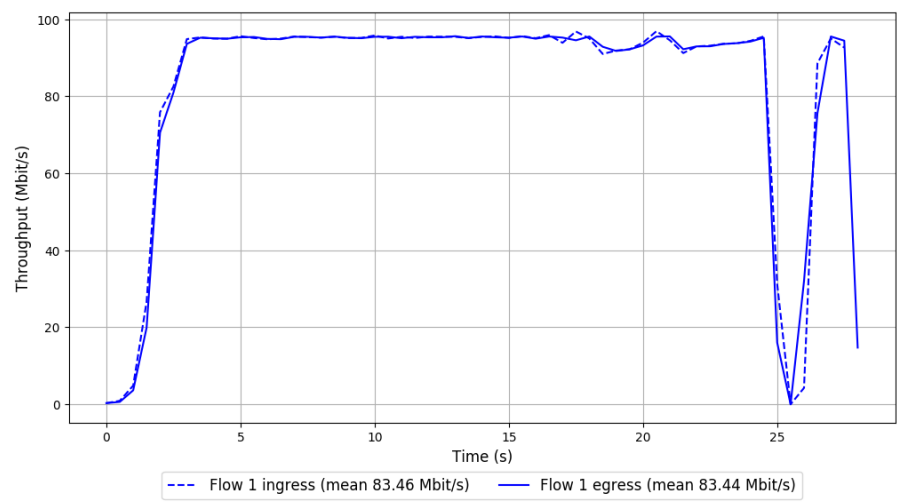
-- Flow 1:

Average throughput: 83.44 Mbit/s

95th percentile per-packet one-way delay: 93.524 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link

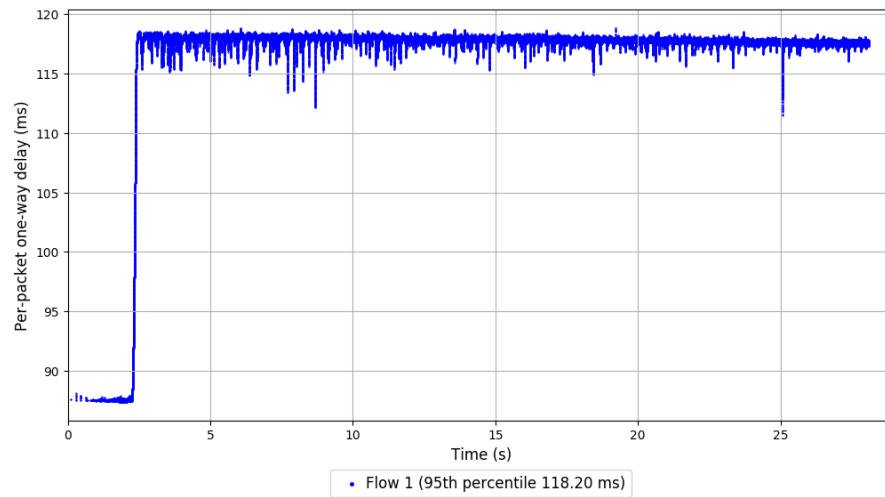
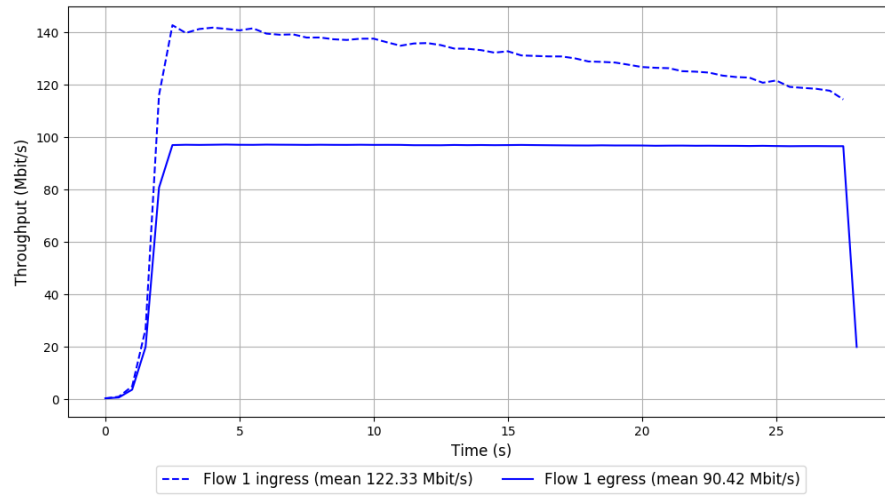


Run 3: Statistics of Copa

Start at: 2018-01-02 01:14:54
End at: 2018-01-02 01:15:24
Local clock offset: -1.248 ms
Remote clock offset: 0.707 ms

Below is generated by plot.py at 2018-01-02 04:08:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.42 Mbit/s
95th percentile per-packet one-way delay: 118.198 ms
Loss rate: 26.00%
-- Flow 1:
Average throughput: 90.42 Mbit/s
95th percentile per-packet one-way delay: 118.198 ms
Loss rate: 26.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-02 01:33:05

End at: 2018-01-02 01:33:35

Local clock offset: -1.03 ms

Remote clock offset: 0.349 ms

Below is generated by plot.py at 2018-01-02 04:08:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.20 Mbit/s

95th percentile per-packet one-way delay: 110.355 ms

Loss rate: 0.01%

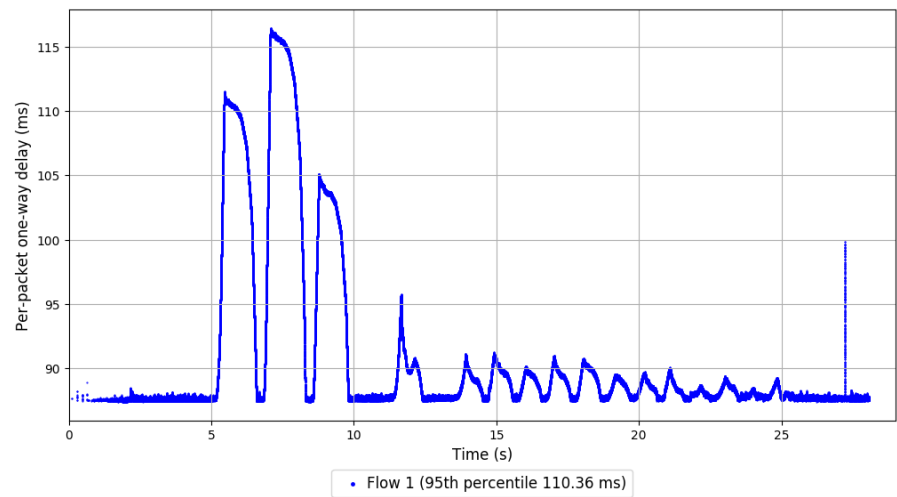
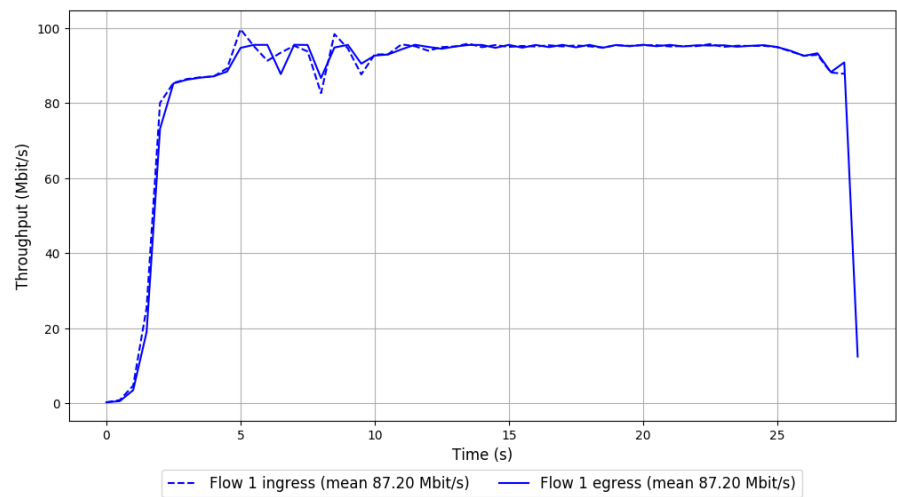
-- Flow 1:

Average throughput: 87.20 Mbit/s

95th percentile per-packet one-way delay: 110.355 ms

Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-02 01:51:15

End at: 2018-01-02 01:51:45

Local clock offset: -0.583 ms

Remote clock offset: 0.943 ms

Below is generated by plot.py at 2018-01-02 04:08:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.68 Mbit/s

95th percentile per-packet one-way delay: 95.419 ms

Loss rate: 0.01%

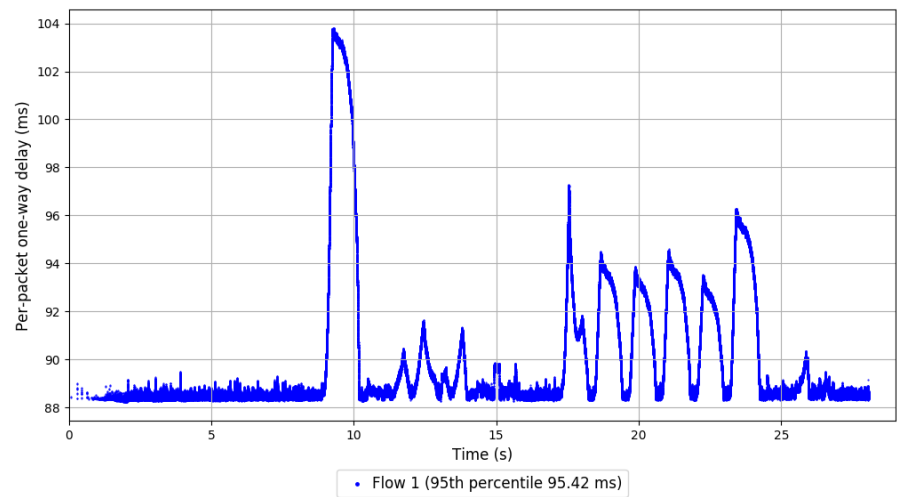
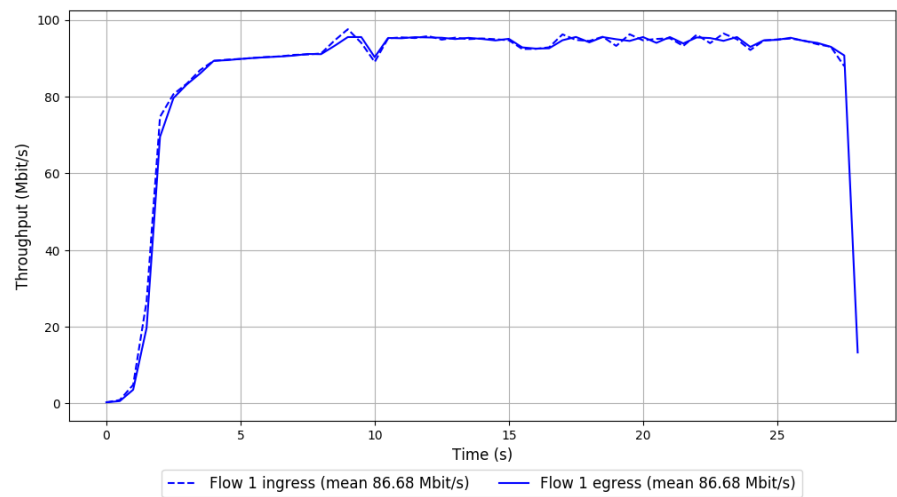
-- Flow 1:

Average throughput: 86.68 Mbit/s

95th percentile per-packet one-way delay: 95.419 ms

Loss rate: 0.01%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-02 02:09:31

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

Local clock offset: -0.725 ms

Remote clock offset: 0.9 ms

Below is generated by plot.py at 2018-01-02 04:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.11 Mbit/s

95th percentile per-packet one-way delay: 92.583 ms

Loss rate: 0.01%

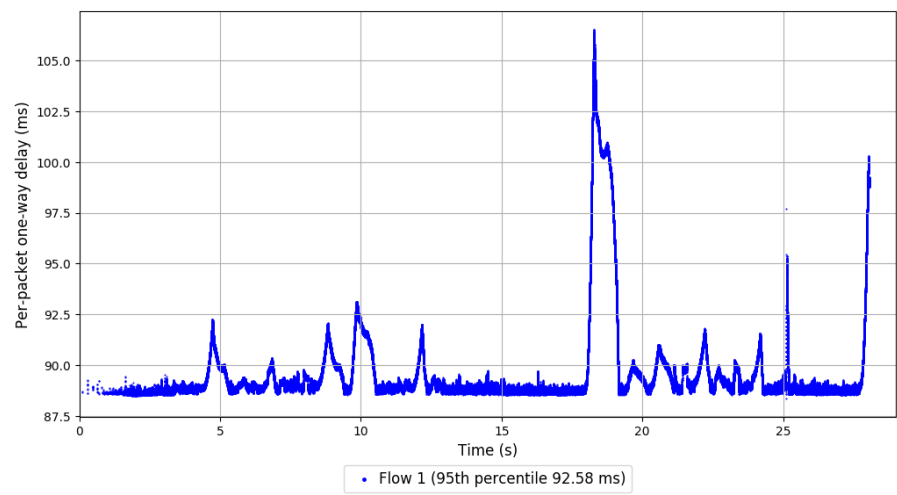
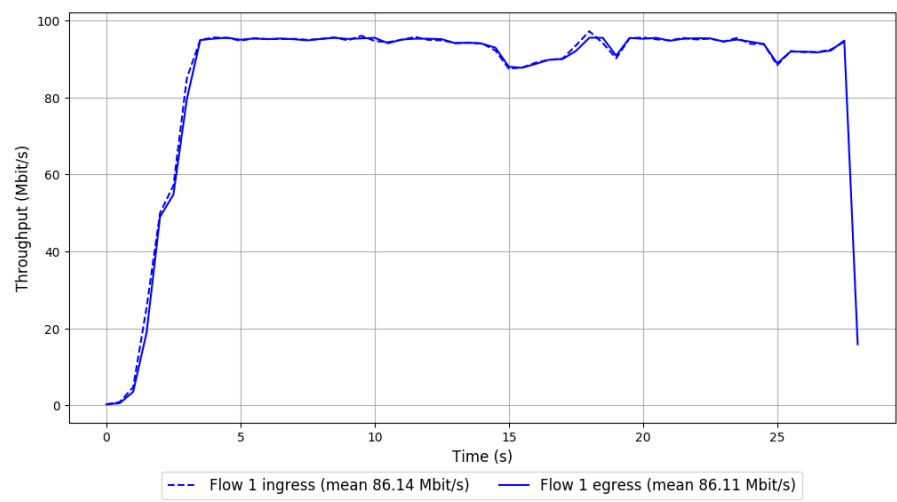
-- Flow 1:

Average throughput: 86.11 Mbit/s

95th percentile per-packet one-way delay: 92.583 ms

Loss rate: 0.01%

Run 6: Report of Copa — Data Link

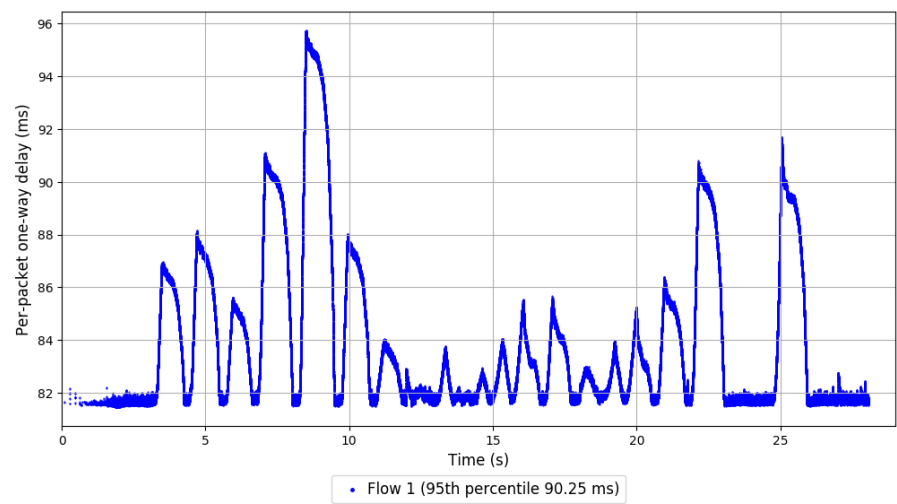
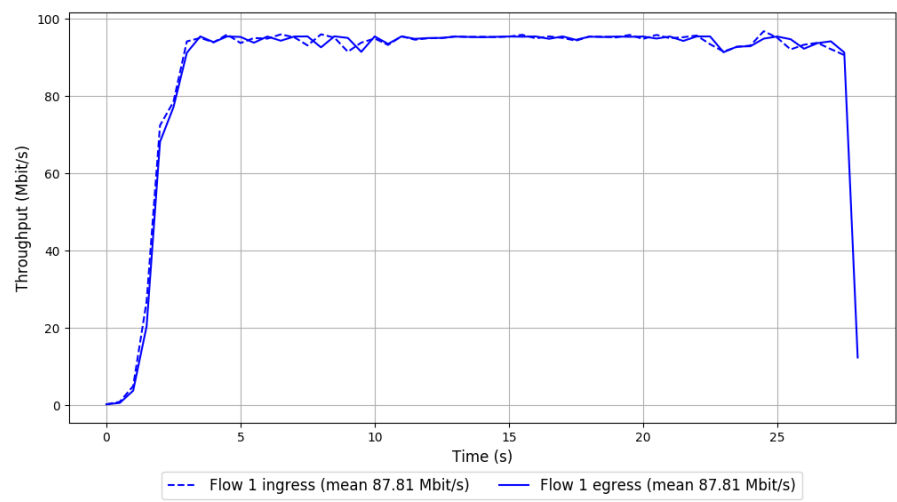


Run 7: Statistics of Copa

Start at: 2018-01-02 02:27:42
End at: 2018-01-02 02:28:12
Local clock offset: -0.603 ms
Remote clock offset: -5.846 ms

Below is generated by plot.py at 2018-01-02 04:08:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.81 Mbit/s
95th percentile per-packet one-way delay: 90.250 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 87.81 Mbit/s
95th percentile per-packet one-way delay: 90.250 ms
Loss rate: 0.01%

Run 7: Report of Copa — Data Link

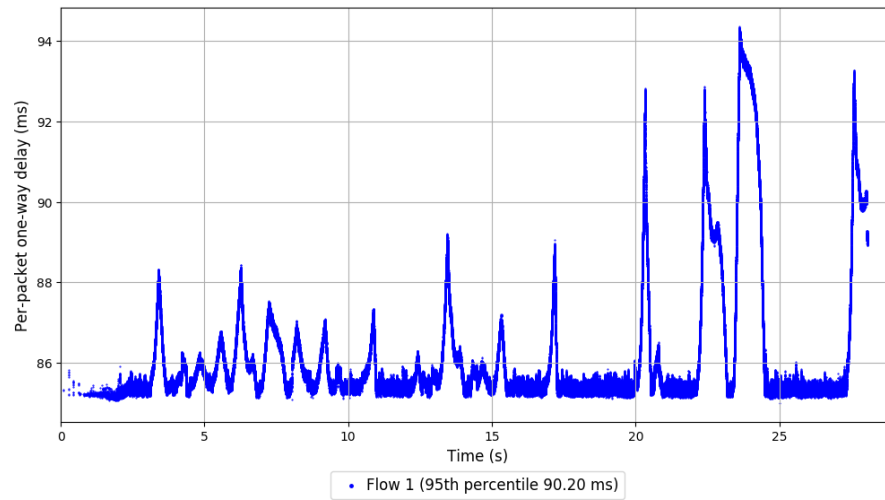
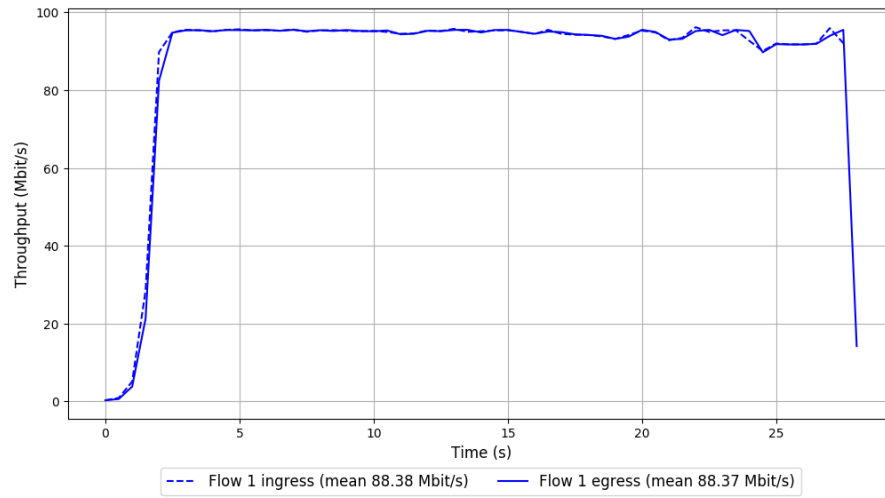


Run 8: Statistics of Copa

Start at: 2018-01-02 02:45:53
End at: 2018-01-02 02:46:23
Local clock offset: -0.691 ms
Remote clock offset: -1.259 ms

Below is generated by plot.py at 2018-01-02 04:08:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.37 Mbit/s
95th percentile per-packet one-way delay: 90.204 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 88.37 Mbit/s
95th percentile per-packet one-way delay: 90.204 ms
Loss rate: 0.00%

Run 8: Report of Copa — Data Link

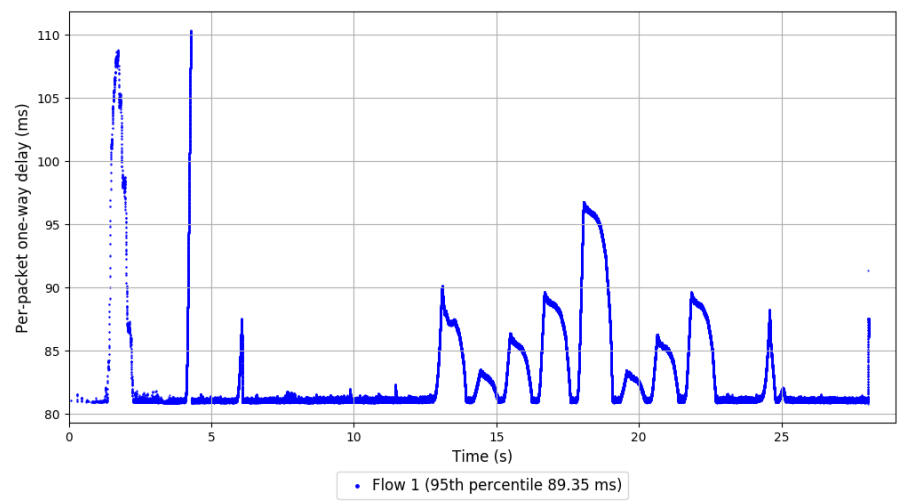
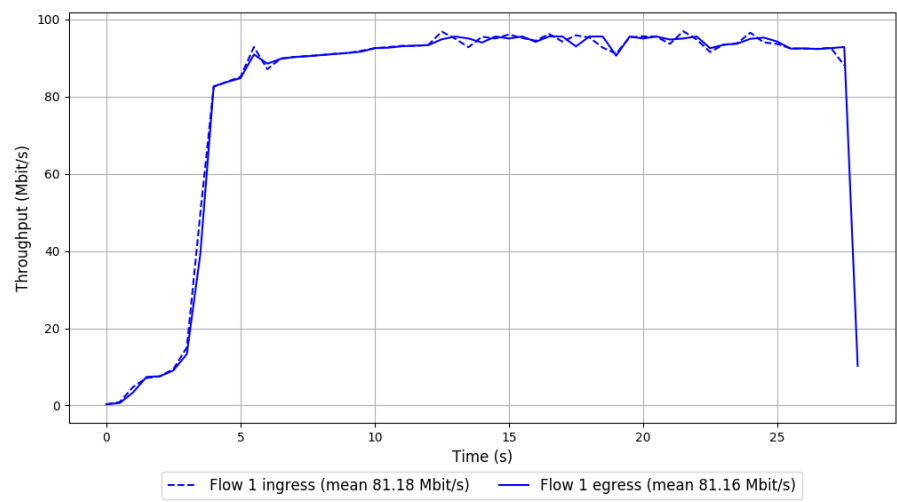


Run 9: Statistics of Copa

Start at: 2018-01-02 03:04:09
End at: 2018-01-02 03:04:39
Local clock offset: -0.77 ms
Remote clock offset: -5.596 ms

Below is generated by plot.py at 2018-01-02 04:10:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 81.16 Mbit/s
95th percentile per-packet one-way delay: 89.354 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 81.16 Mbit/s
95th percentile per-packet one-way delay: 89.354 ms
Loss rate: 0.01%

Run 9: Report of Copa — Data Link

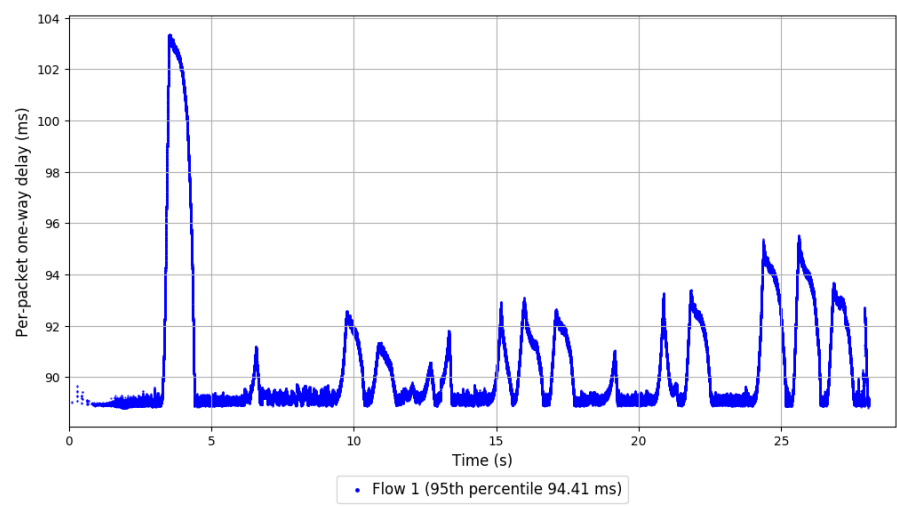
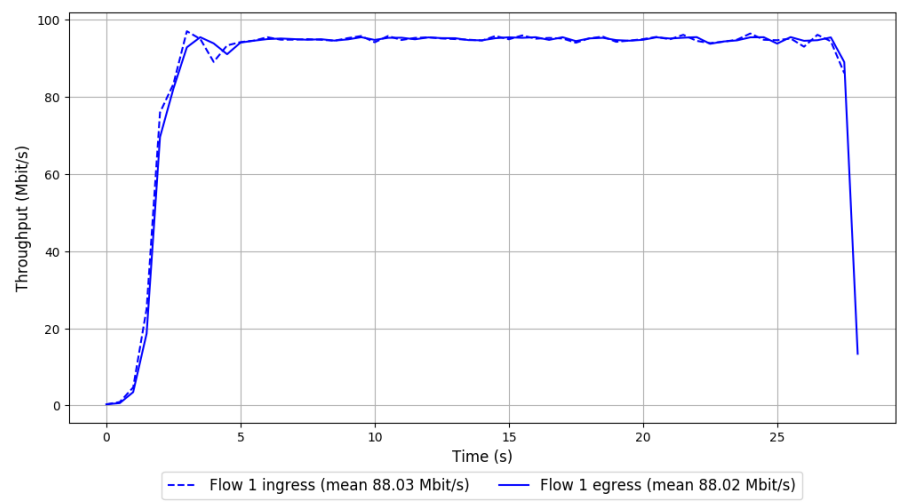


Run 10: Statistics of Copa

Start at: 2018-01-02 03:22:20
End at: 2018-01-02 03:22:50
Local clock offset: -0.772 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2018-01-02 04:10:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.02 Mbit/s
95th percentile per-packet one-way delay: 94.412 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 88.02 Mbit/s
95th percentile per-packet one-way delay: 94.412 ms
Loss rate: 0.01%

Run 10: Report of Copa — Data Link

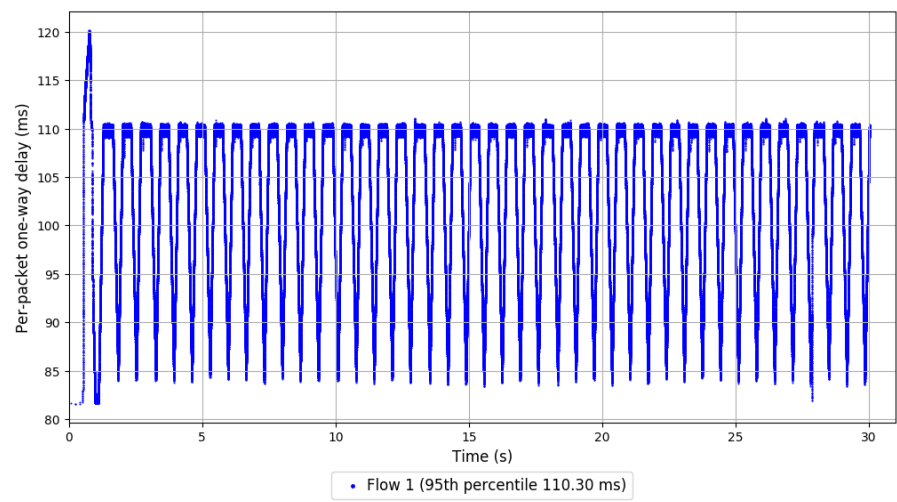
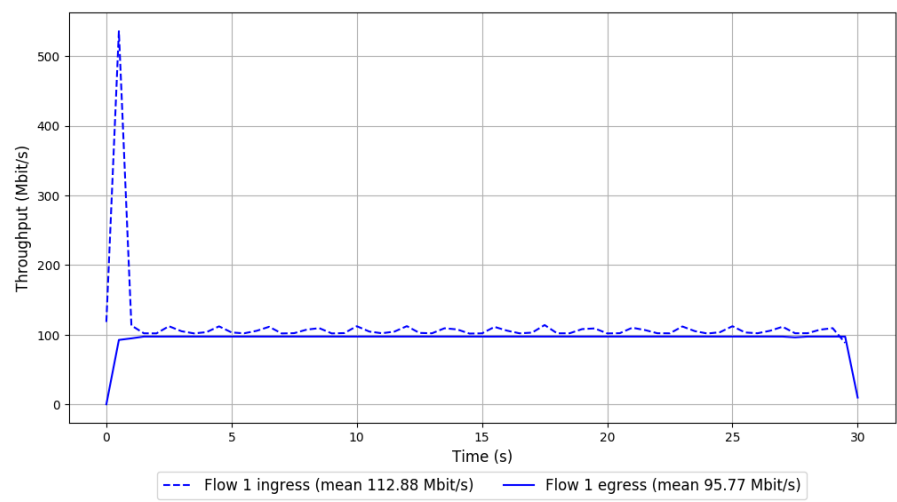


Run 1: Statistics of FillP

Start at: 2018-01-02 00:50:37
End at: 2018-01-02 00:51:07
Local clock offset: -1.526 ms
Remote clock offset: -4.879 ms

Below is generated by plot.py at 2018-01-02 04:10:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.77 Mbit/s
95th percentile per-packet one-way delay: 110.299 ms
Loss rate: 15.08%
-- Flow 1:
Average throughput: 95.77 Mbit/s
95th percentile per-packet one-way delay: 110.299 ms
Loss rate: 15.08%

Run 1: Report of FillP — Data Link

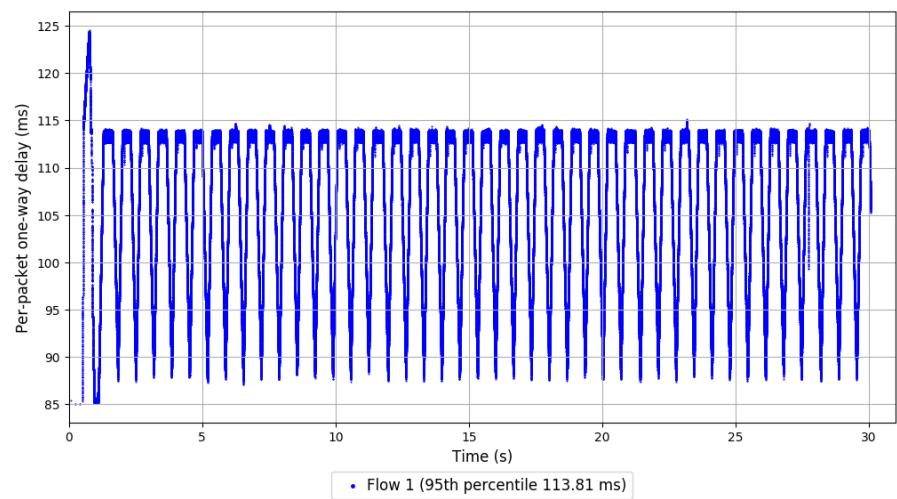
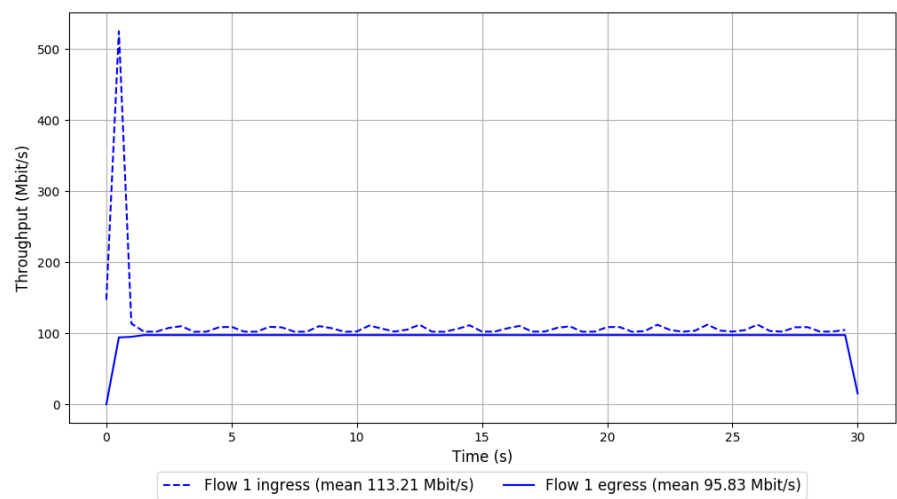


Run 2: Statistics of FillP

Start at: 2018-01-02 01:08:54
End at: 2018-01-02 01:09:24
Local clock offset: -1.314 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2018-01-02 04:10:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.83 Mbit/s
95th percentile per-packet one-way delay: 113.809 ms
Loss rate: 15.29%
-- Flow 1:
Average throughput: 95.83 Mbit/s
95th percentile per-packet one-way delay: 113.809 ms
Loss rate: 15.29%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-02 01:27:05

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

Local clock offset: -1.144 ms

Remote clock offset: 1.749 ms

Below is generated by plot.py at 2018-01-02 04:10:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.83 Mbit/s

95th percentile per-packet one-way delay: 115.224 ms

Loss rate: 14.79%

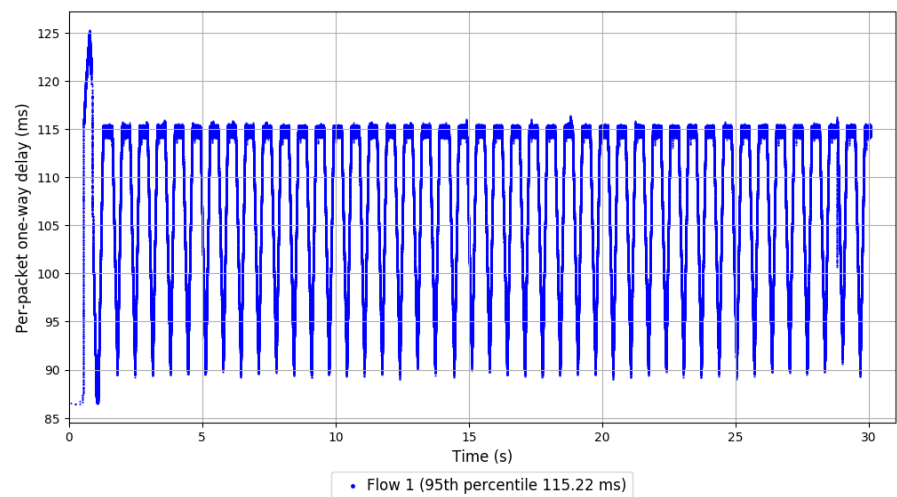
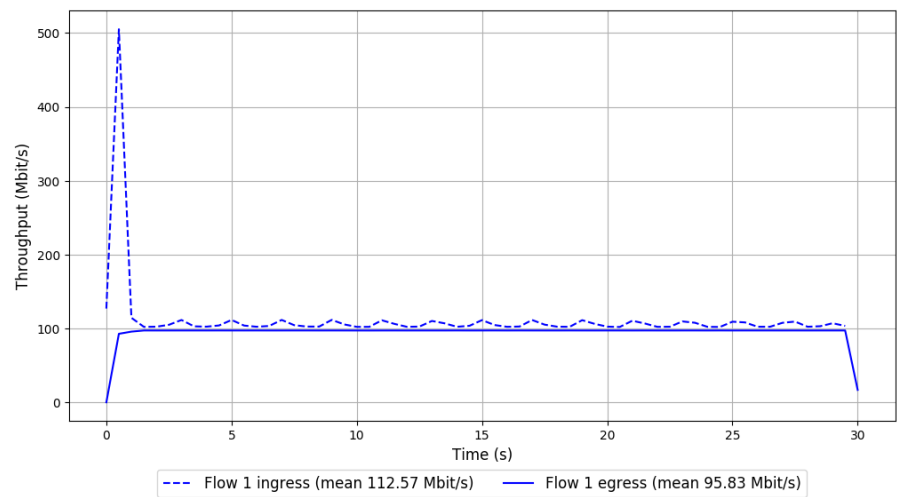
-- Flow 1:

Average throughput: 95.83 Mbit/s

95th percentile per-packet one-way delay: 115.224 ms

Loss rate: 14.79%

Run 3: Report of FillP — Data Link

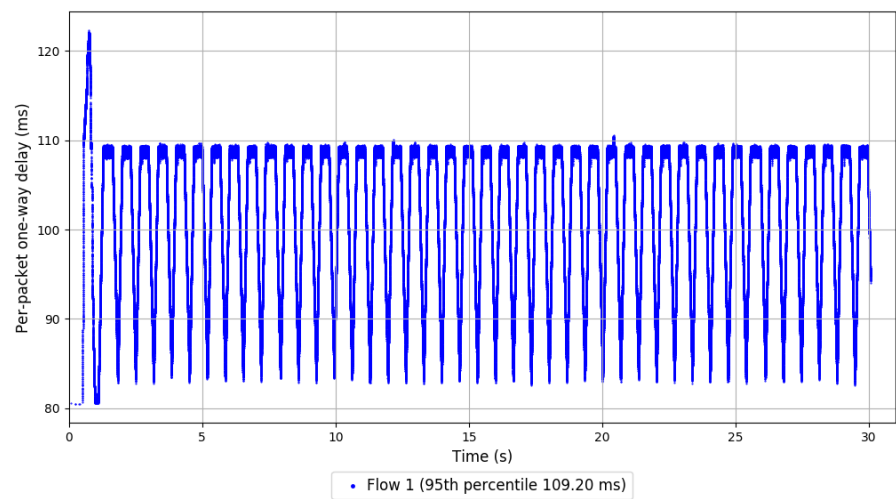
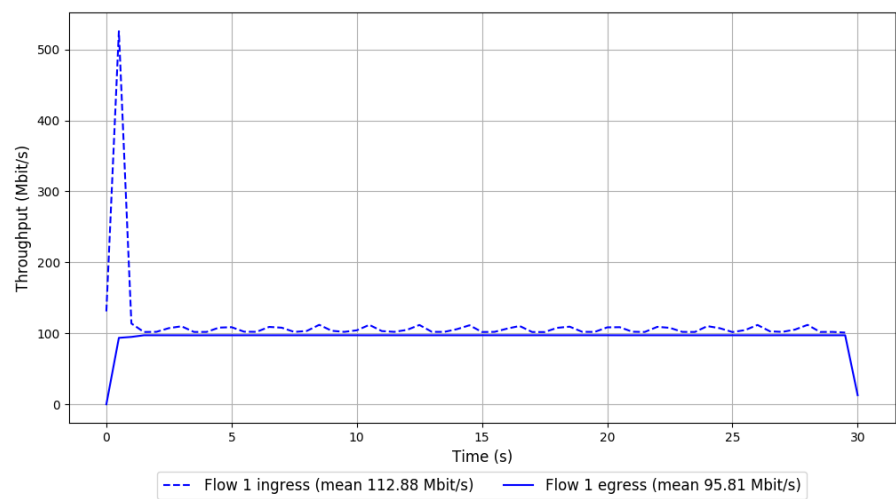


Run 4: Statistics of FillP

Start at: 2018-01-02 01:45:14
End at: 2018-01-02 01:45:44
Local clock offset: -0.68 ms
Remote clock offset: -5.505 ms

Below is generated by plot.py at 2018-01-02 04:10:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.81 Mbit/s
95th percentile per-packet one-way delay: 109.196 ms
Loss rate: 15.08%
-- Flow 1:
Average throughput: 95.81 Mbit/s
95th percentile per-packet one-way delay: 109.196 ms
Loss rate: 15.08%

Run 4: Report of FillP — Data Link

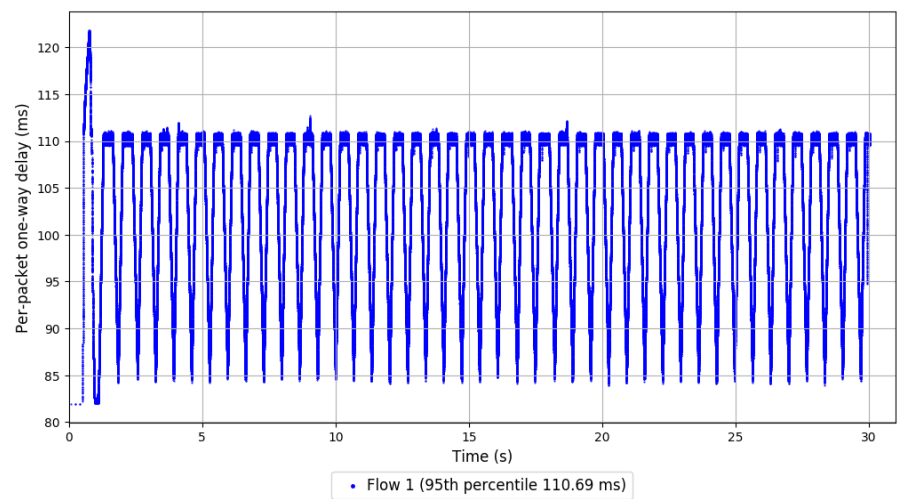
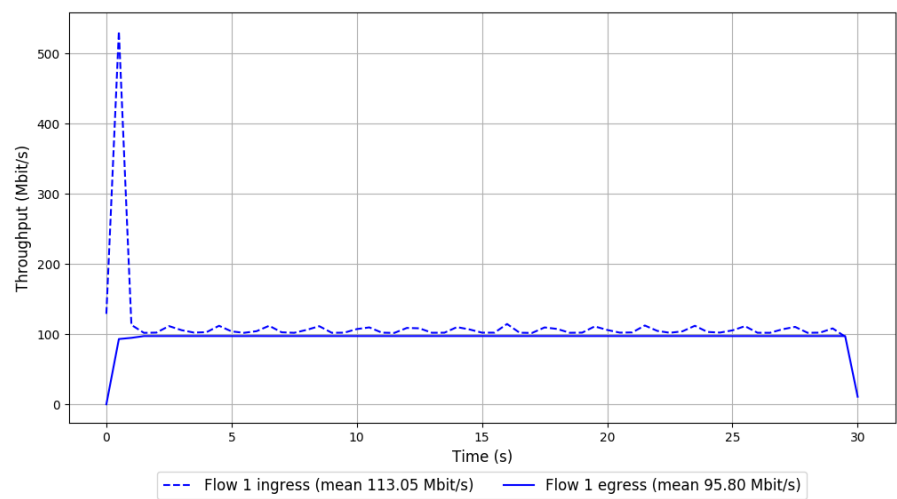


Run 5: Statistics of FillP

Start at: 2018-01-02 02:03:27
End at: 2018-01-02 02:03:57
Local clock offset: -0.599 ms
Remote clock offset: -4.886 ms

Below is generated by plot.py at 2018-01-02 04:10:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.80 Mbit/s
95th percentile per-packet one-way delay: 110.693 ms
Loss rate: 15.18%
-- Flow 1:
Average throughput: 95.80 Mbit/s
95th percentile per-packet one-way delay: 110.693 ms
Loss rate: 15.18%

Run 5: Report of FillP — Data Link

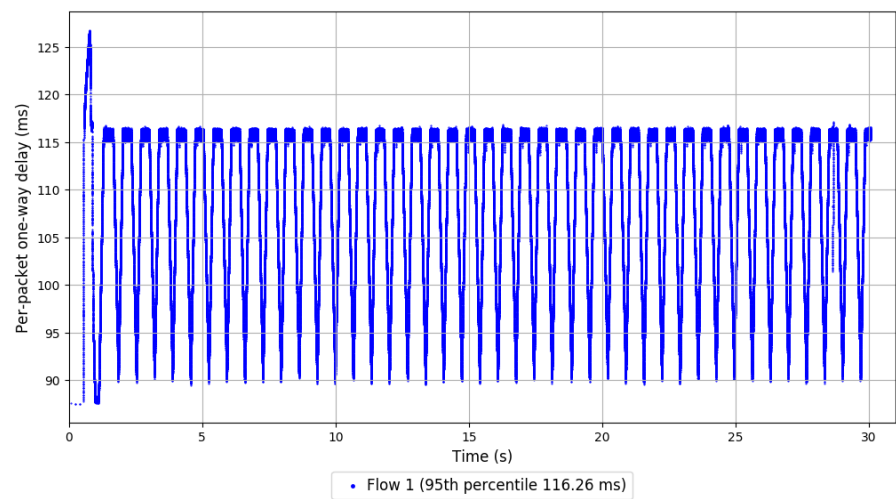
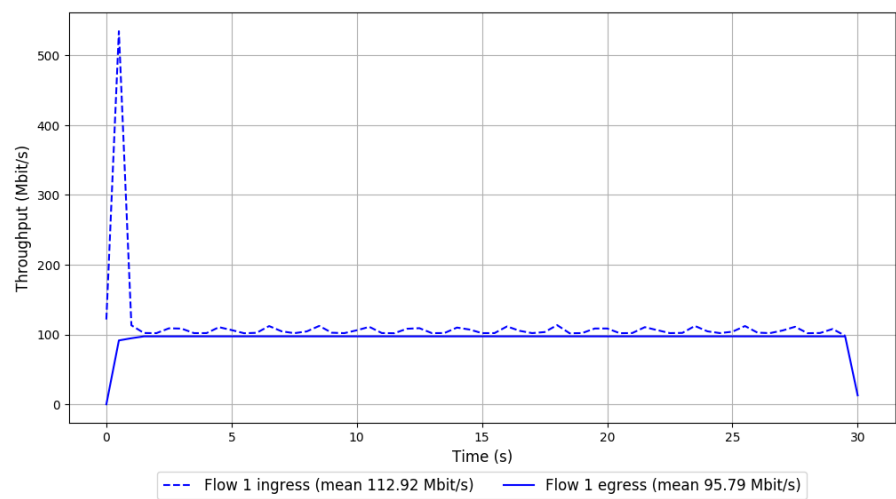


Run 6: Statistics of FillP

Start at: 2018-01-02 02:21:42
End at: 2018-01-02 02:22:12
Local clock offset: -0.703 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-01-02 04:10:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.79 Mbit/s
95th percentile per-packet one-way delay: 116.258 ms
Loss rate: 15.09%
-- Flow 1:
Average throughput: 95.79 Mbit/s
95th percentile per-packet one-way delay: 116.258 ms
Loss rate: 15.09%

Run 6: Report of FillP — Data Link

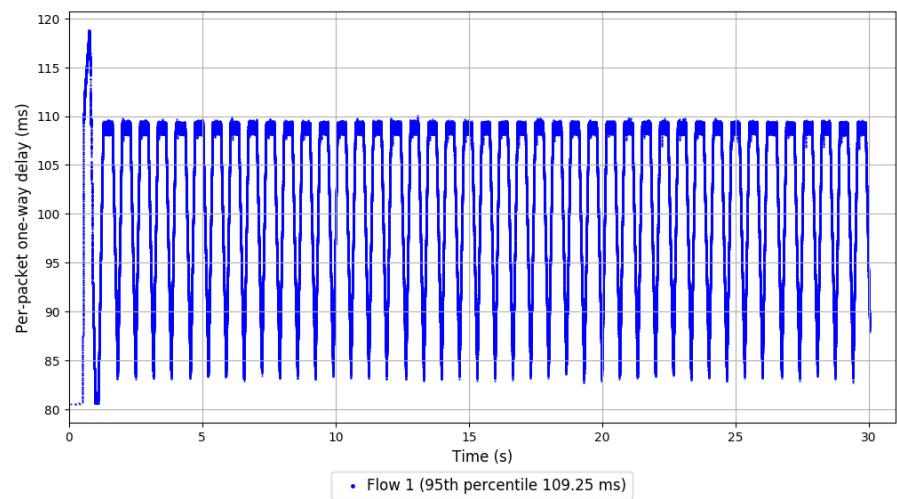
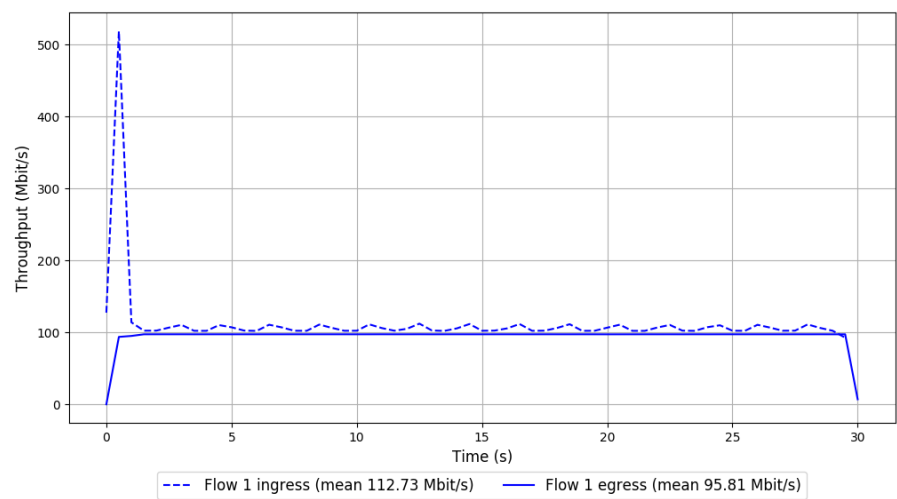


Run 7: Statistics of FillP

Start at: 2018-01-02 02:39:53
End at: 2018-01-02 02:40:23
Local clock offset: -0.702 ms
Remote clock offset: -5.149 ms

Below is generated by plot.py at 2018-01-02 04:11:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.81 Mbit/s
95th percentile per-packet one-way delay: 109.254 ms
Loss rate: 14.98%
-- Flow 1:
Average throughput: 95.81 Mbit/s
95th percentile per-packet one-way delay: 109.254 ms
Loss rate: 14.98%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-02 02:58:04

End at: 2018-01-02 02:58:34

Local clock offset: -0.71 ms

Remote clock offset: -4.99 ms

Below is generated by plot.py at 2018-01-02 04:11:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.80 Mbit/s

95th percentile per-packet one-way delay: 110.112 ms

Loss rate: 15.25%

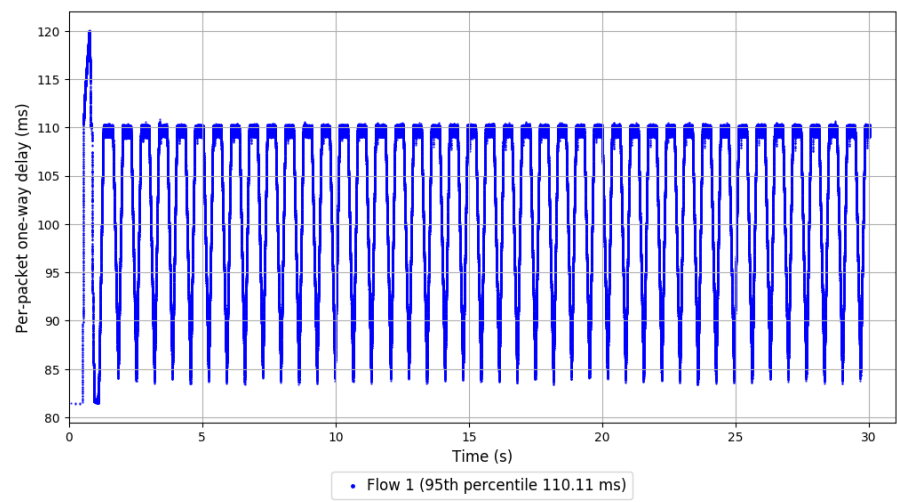
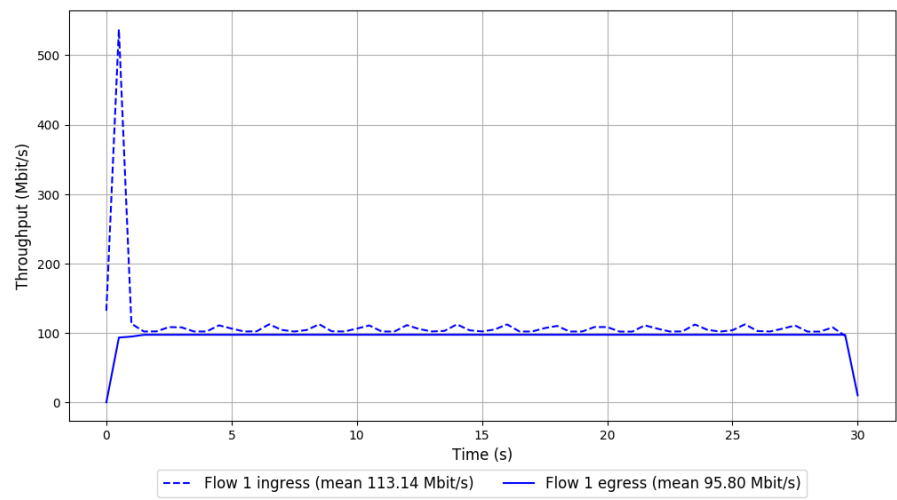
-- Flow 1:

Average throughput: 95.80 Mbit/s

95th percentile per-packet one-way delay: 110.112 ms

Loss rate: 15.25%

Run 8: Report of FillP — Data Link

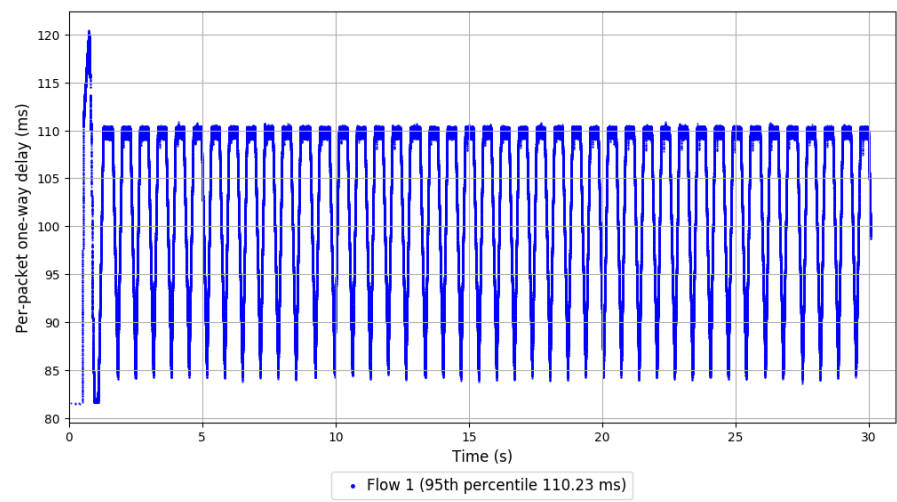
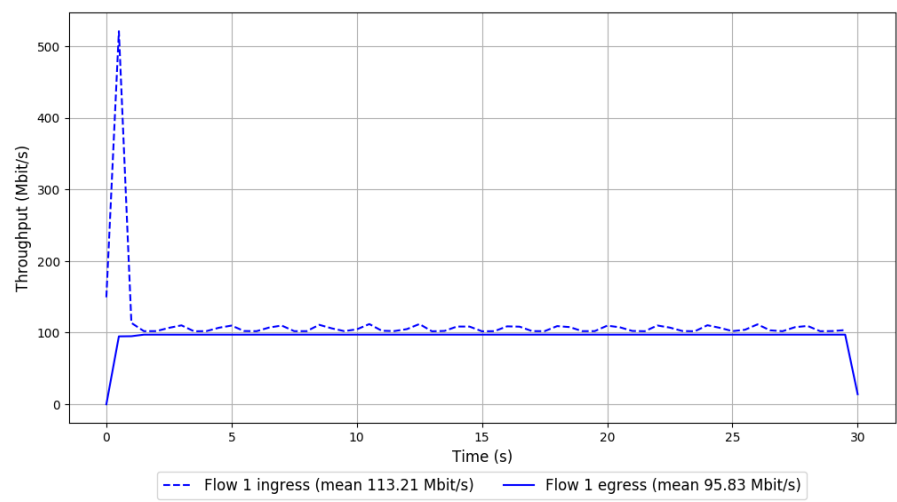


Run 9: Statistics of FillP

Start at: 2018-01-02 03:16:20
End at: 2018-01-02 03:16:50
Local clock offset: -0.8 ms
Remote clock offset: -4.817 ms

Below is generated by plot.py at 2018-01-02 04:11:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.83 Mbit/s
95th percentile per-packet one-way delay: 110.226 ms
Loss rate: 15.30%
-- Flow 1:
Average throughput: 95.83 Mbit/s
95th percentile per-packet one-way delay: 110.226 ms
Loss rate: 15.30%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-02 03:34:30

End at: 2018-01-02 03:35:00

Local clock offset: -0.898 ms

Remote clock offset: 1.064 ms

Below is generated by plot.py at 2018-01-02 04:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.80 Mbit/s

95th percentile per-packet one-way delay: 118.310 ms

Loss rate: 15.11%

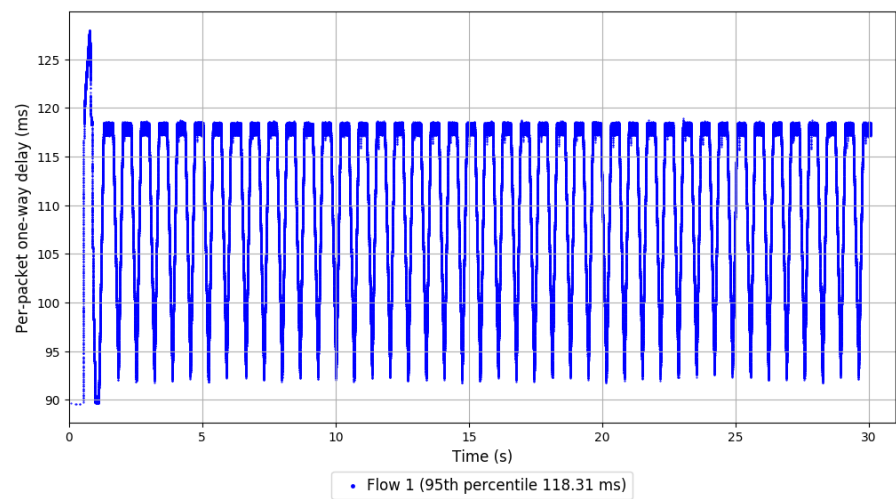
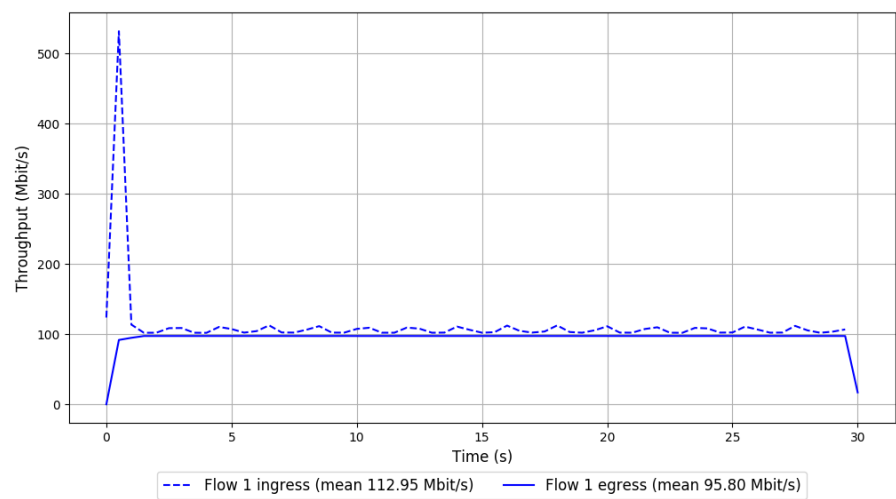
-- Flow 1:

Average throughput: 95.80 Mbit/s

95th percentile per-packet one-way delay: 118.310 ms

Loss rate: 15.11%

Run 10: Report of FillP — Data Link

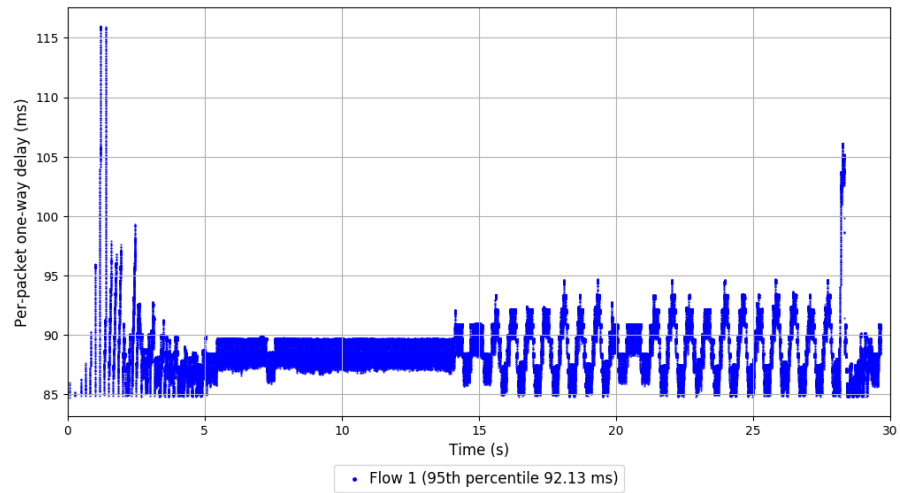
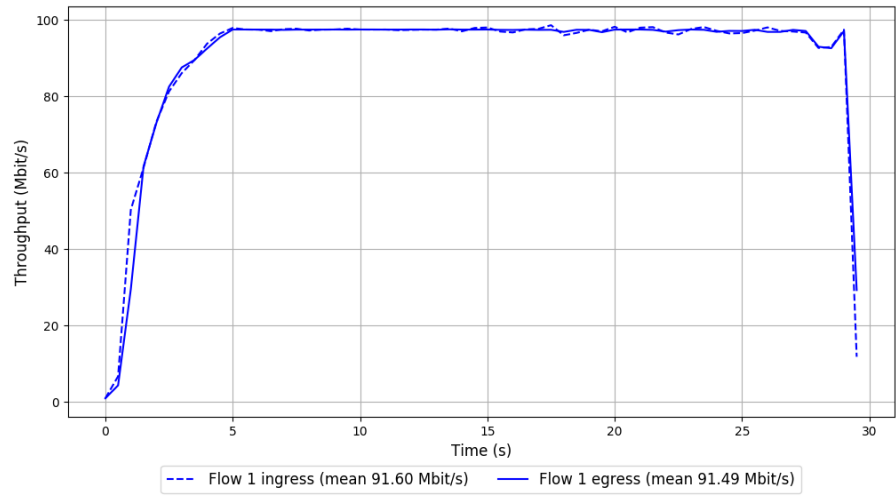


```
Run 1: Statistics of Indigo

Start at: 2018-01-02 00:39:41
End at: 2018-01-02 00:40:11
Local clock offset: -1.245 ms
Remote clock offset: 0.31 ms

# Below is generated by plot.py at 2018-01-02 04:11:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.49 Mbit/s
95th percentile per-packet one-way delay: 92.132 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 91.49 Mbit/s
95th percentile per-packet one-way delay: 92.132 ms
Loss rate: 0.10%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-01-02 00:57:58

End at: 2018-01-02 00:58:28

Local clock offset: -1.626 ms

Remote clock offset: 0.783 ms

Below is generated by plot.py at 2018-01-02 04:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.77 Mbit/s

95th percentile per-packet one-way delay: 93.432 ms

Loss rate: 1.43%

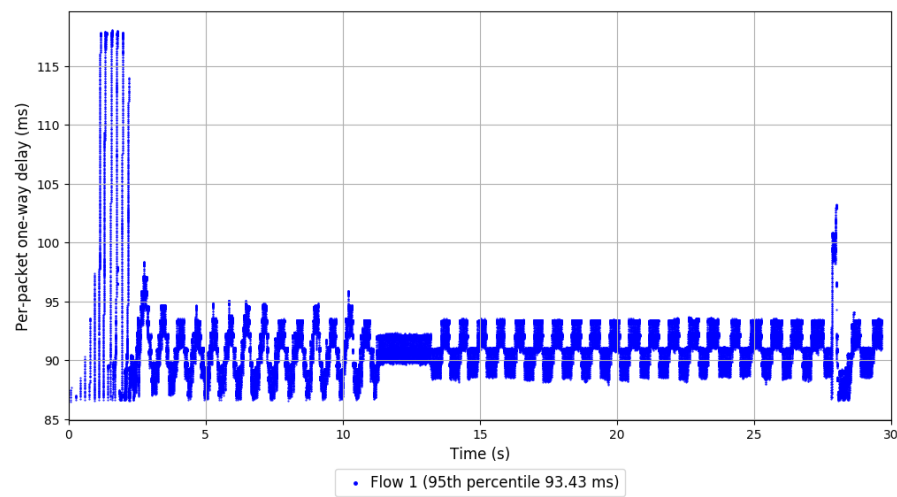
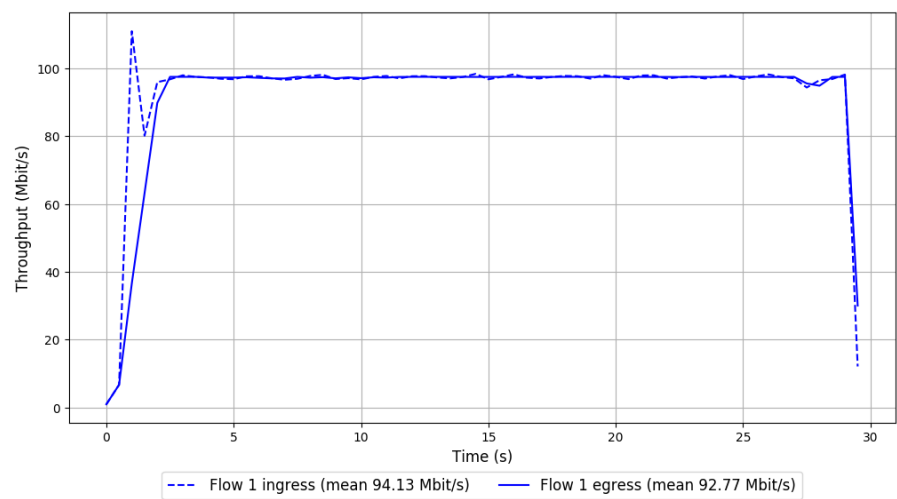
-- Flow 1:

Average throughput: 92.77 Mbit/s

95th percentile per-packet one-way delay: 93.432 ms

Loss rate: 1.43%

Run 2: Report of Indigo — Data Link

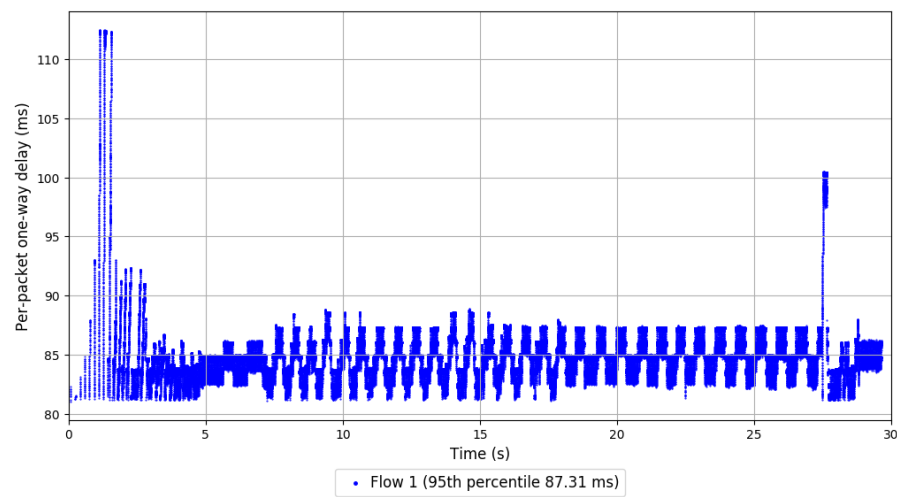
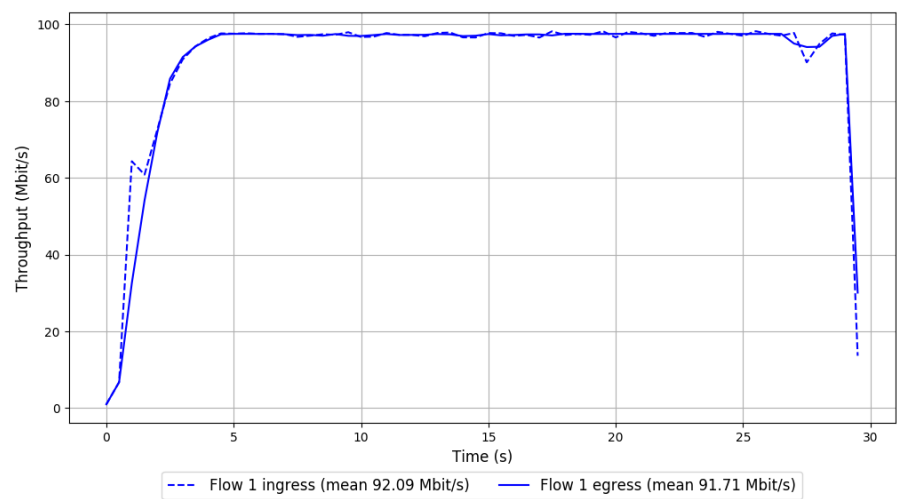


Run 3: Statistics of Indigo

Start at: 2018-01-02 01:16:10
End at: 2018-01-02 01:16:40
Local clock offset: -1.257 ms
Remote clock offset: -3.842 ms

Below is generated by plot.py at 2018-01-02 04:11:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.71 Mbit/s
95th percentile per-packet one-way delay: 87.308 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 91.71 Mbit/s
95th percentile per-packet one-way delay: 87.308 ms
Loss rate: 0.40%

Run 3: Report of Indigo — Data Link

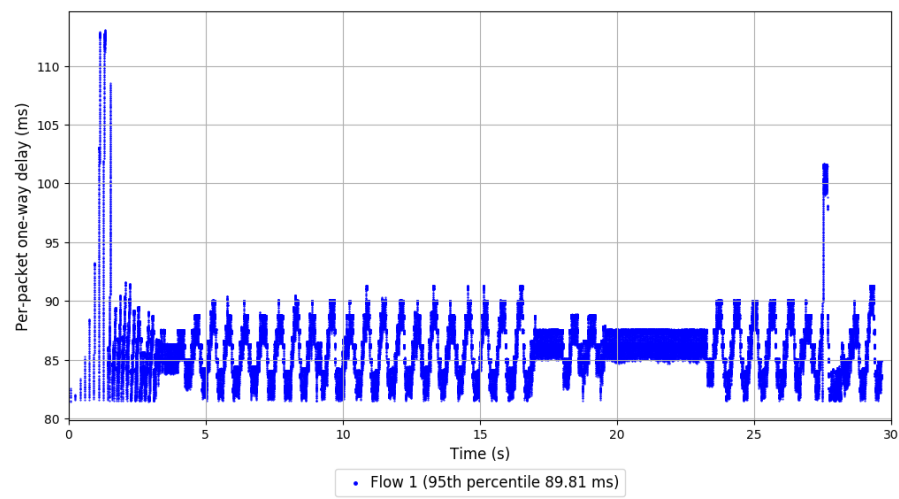
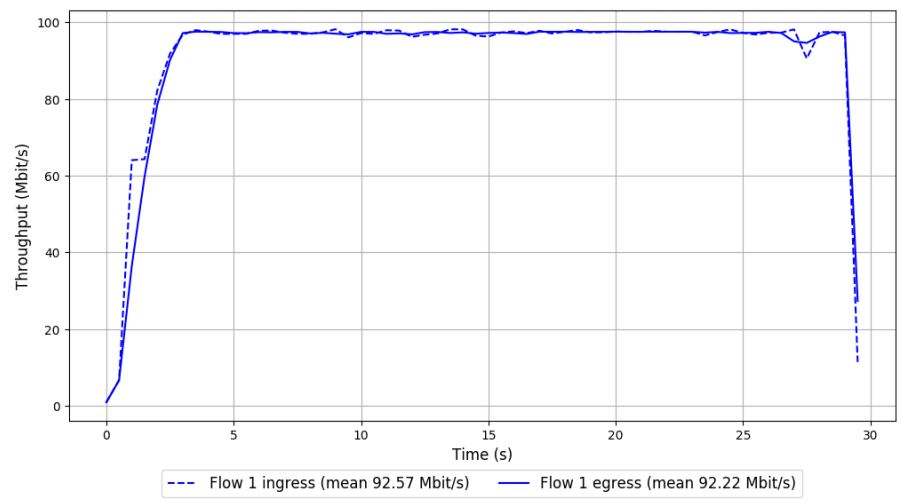


Run 4: Statistics of Indigo

Start at: 2018-01-02 01:34:22
End at: 2018-01-02 01:34:52
Local clock offset: -1.011 ms
Remote clock offset: -4.032 ms

Below is generated by plot.py at 2018-01-02 04:11:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.22 Mbit/s
95th percentile per-packet one-way delay: 89.811 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 92.22 Mbit/s
95th percentile per-packet one-way delay: 89.811 ms
Loss rate: 0.37%

Run 4: Report of Indigo — Data Link

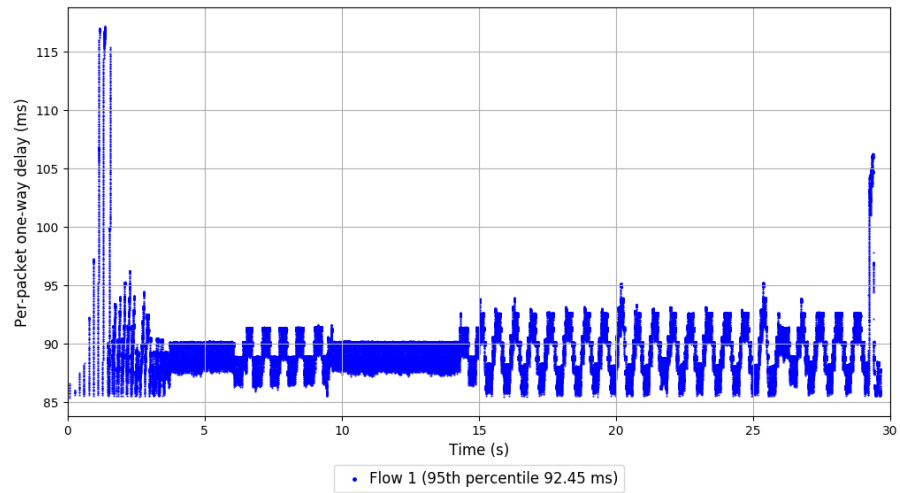
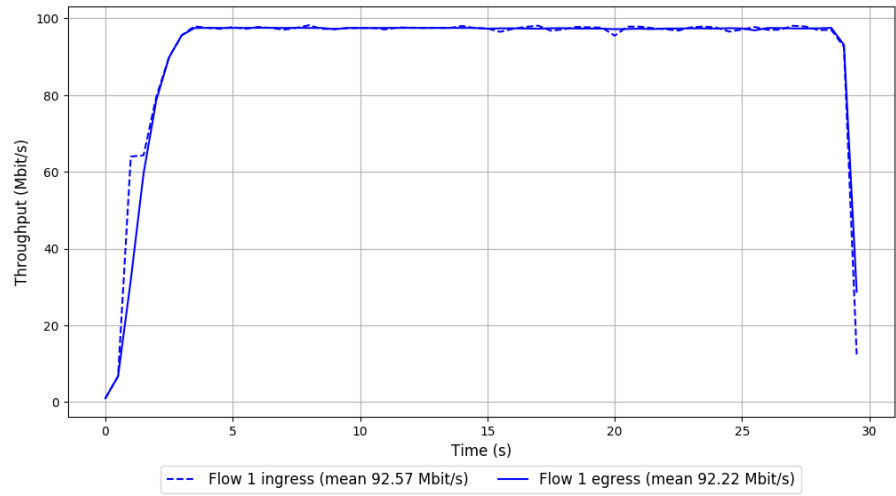


Run 5: Statistics of Indigo

Start at: 2018-01-02 01:52:32
End at: 2018-01-02 01:53:02
Local clock offset: -0.569 ms
Remote clock offset: -0.715 ms

Below is generated by plot.py at 2018-01-02 04:12:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.22 Mbit/s
95th percentile per-packet one-way delay: 92.451 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 92.22 Mbit/s
95th percentile per-packet one-way delay: 92.451 ms
Loss rate: 0.38%

Run 5: Report of Indigo — Data Link

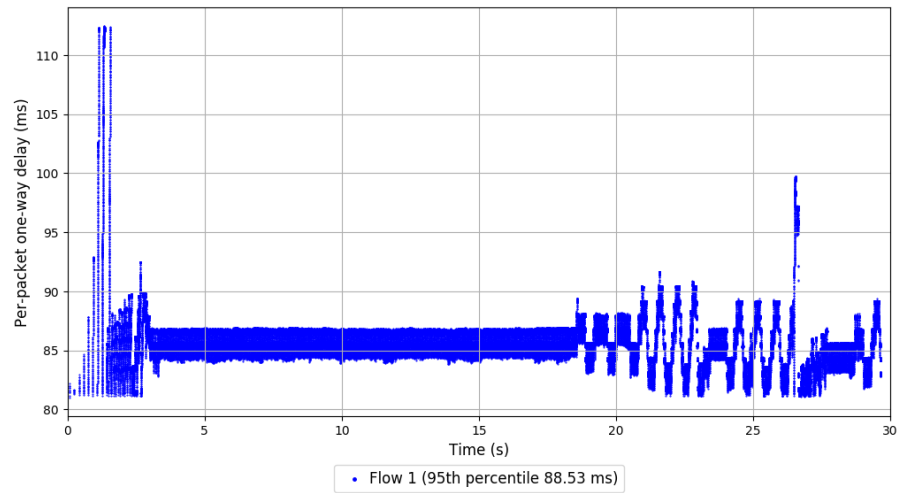
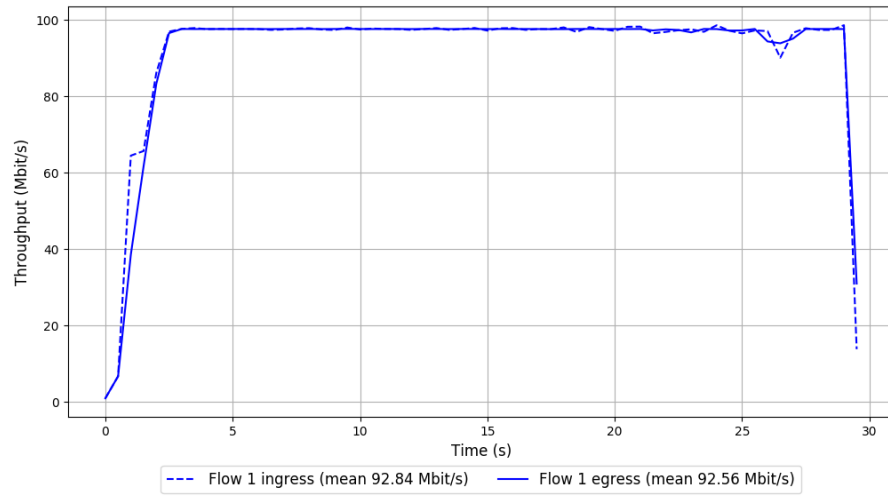


Run 6: Statistics of Indigo

Start at: 2018-01-02 02:10:48
End at: 2018-01-02 02:11:18
Local clock offset: -0.671 ms
Remote clock offset: -4.428 ms

Below is generated by plot.py at 2018-01-02 04:12:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.56 Mbit/s
95th percentile per-packet one-way delay: 88.528 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 92.56 Mbit/s
95th percentile per-packet one-way delay: 88.528 ms
Loss rate: 0.30%

Run 6: Report of Indigo — Data Link

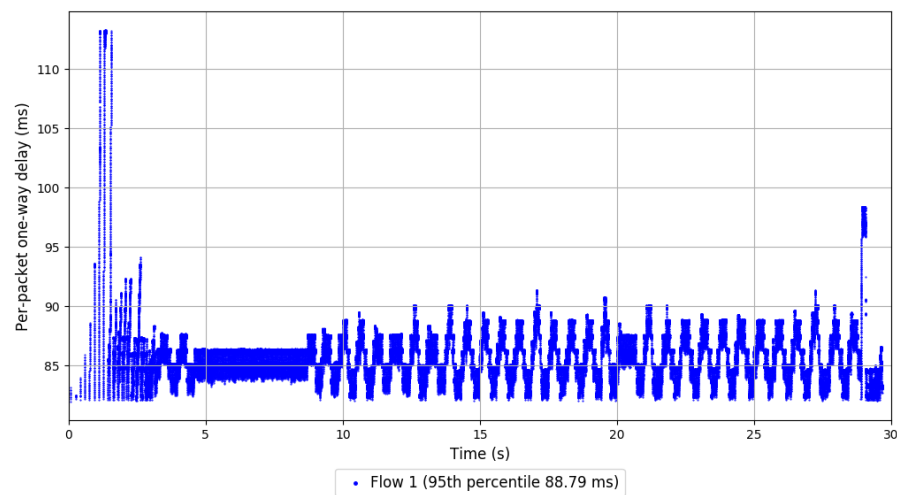
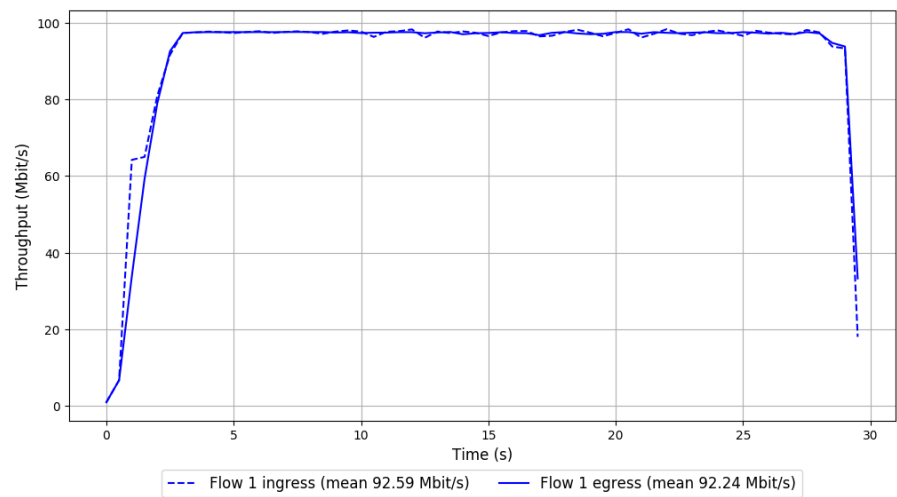


Run 7: Statistics of Indigo

Start at: 2018-01-02 02:28:59
End at: 2018-01-02 02:29:29
Local clock offset: -0.606 ms
Remote clock offset: -5.302 ms

Below is generated by plot.py at 2018-01-02 04:12:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.24 Mbit/s
95th percentile per-packet one-way delay: 88.789 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 92.24 Mbit/s
95th percentile per-packet one-way delay: 88.789 ms
Loss rate: 0.38%

Run 7: Report of Indigo — Data Link

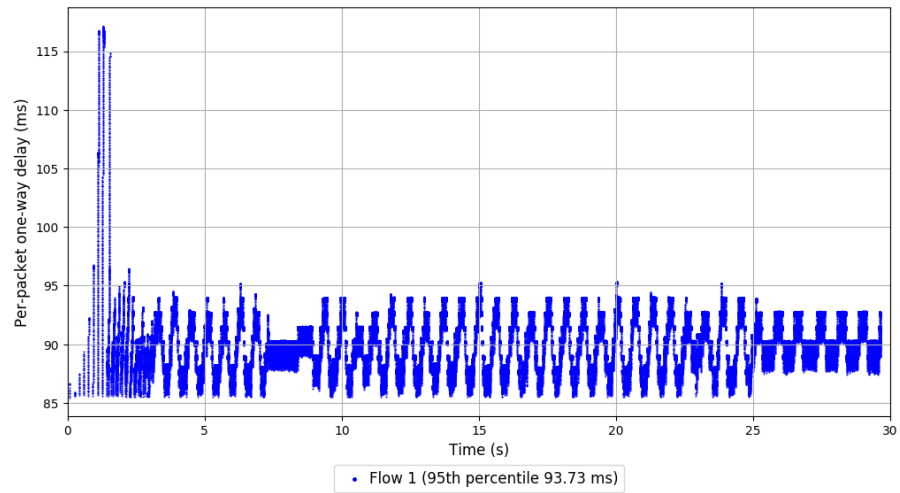
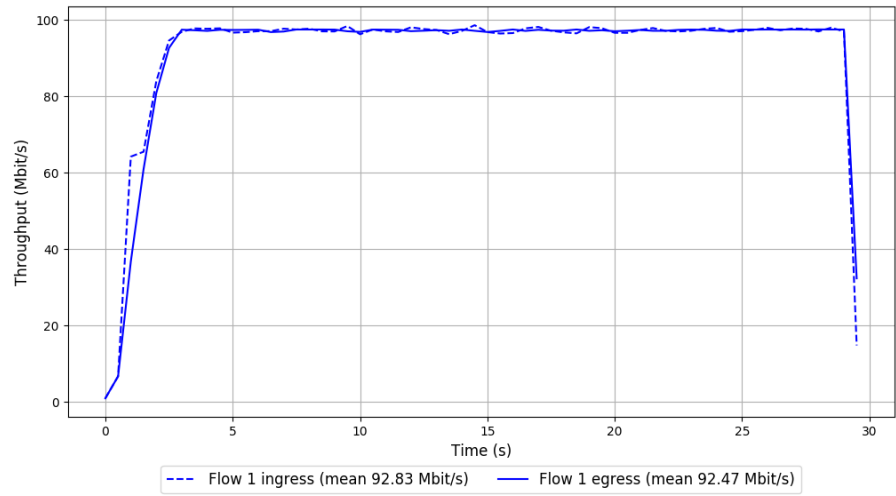


Run 8: Statistics of Indigo

Start at: 2018-01-02 02:47:10
End at: 2018-01-02 02:47:40
Local clock offset: -0.678 ms
Remote clock offset: -0.467 ms

Below is generated by plot.py at 2018-01-02 04:12:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.47 Mbit/s
95th percentile per-packet one-way delay: 93.735 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 92.47 Mbit/s
95th percentile per-packet one-way delay: 93.735 ms
Loss rate: 0.36%

Run 8: Report of Indigo — Data Link

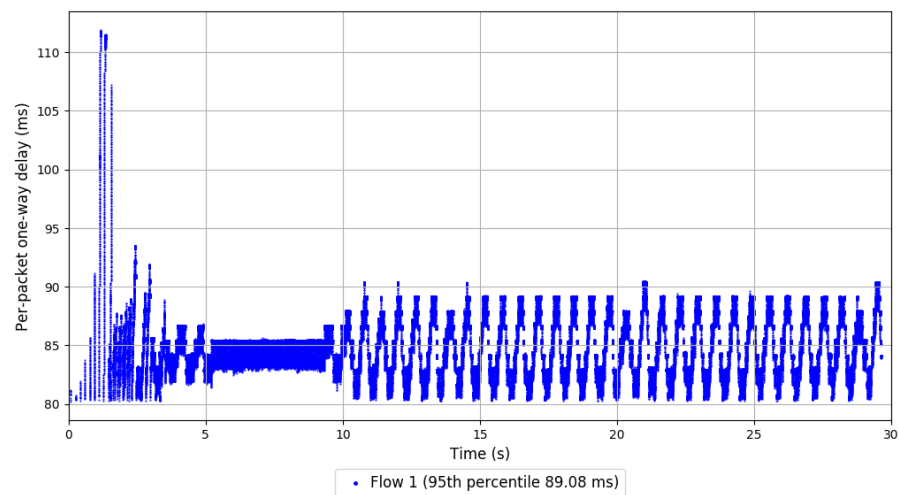
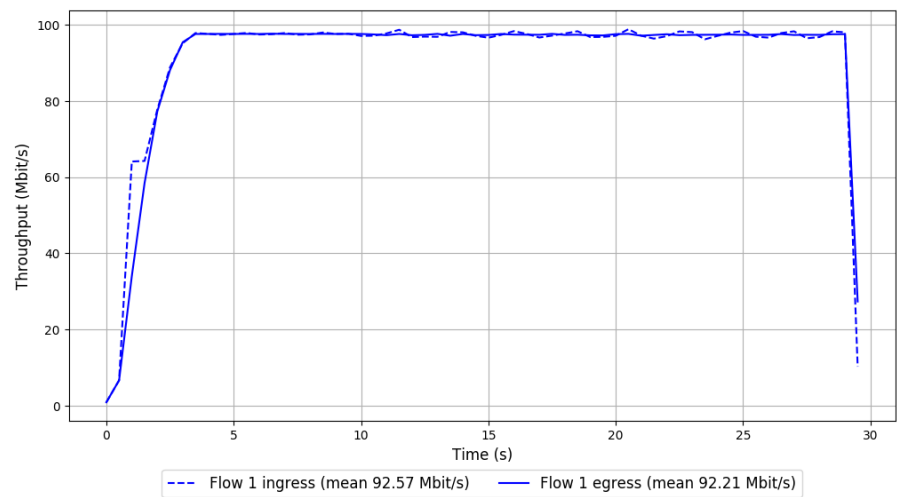


Run 9: Statistics of Indigo

Start at: 2018-01-02 03:05:25
End at: 2018-01-02 03:05:55
Local clock offset: -0.762 ms
Remote clock offset: -6.401 ms

Below is generated by plot.py at 2018-01-02 04:12:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.21 Mbit/s
95th percentile per-packet one-way delay: 89.079 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 92.21 Mbit/s
95th percentile per-packet one-way delay: 89.079 ms
Loss rate: 0.37%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-02 03:23:37

End at: 2018-01-02 03:24:07

Local clock offset: -0.791 ms

Remote clock offset: -0.156 ms

Below is generated by plot.py at 2018-01-02 04:12:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.06 Mbit/s

95th percentile per-packet one-way delay: 94.752 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 92.06 Mbit/s

95th percentile per-packet one-way delay: 94.752 ms

Loss rate: 0.33%

Run 10: Report of Indigo — Data Link

