

Pantheon Report

Generated at 2018-01-09 23:35:33 (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).

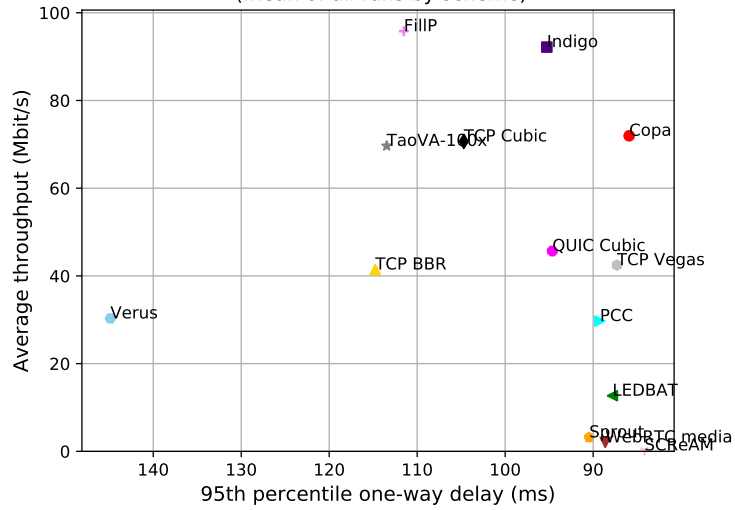
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

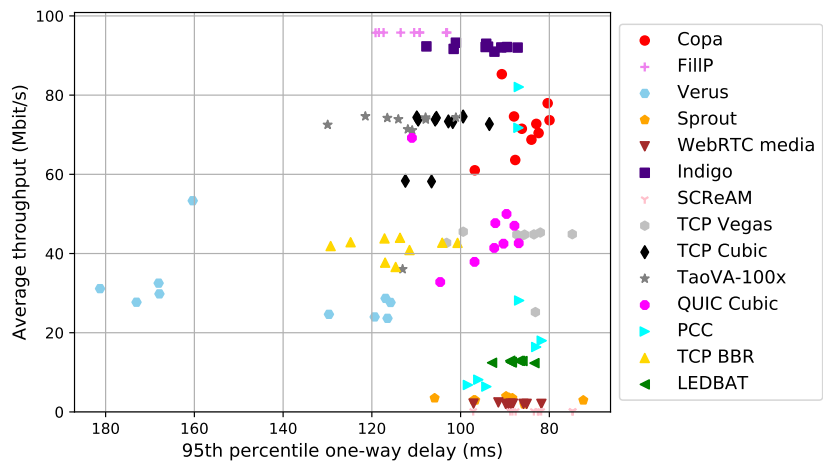
Git summary:

```
branch: master @ 56d1792c316a5efca3f2d21342905405fedffb48
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from AWS 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



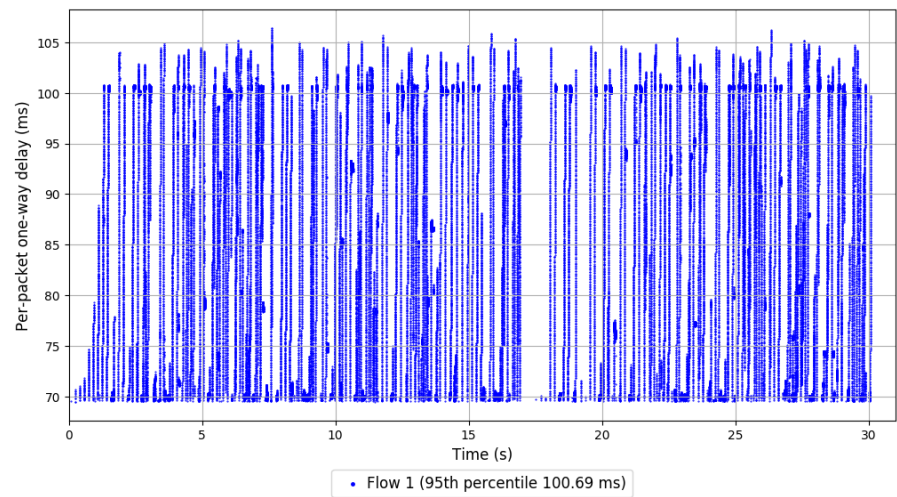
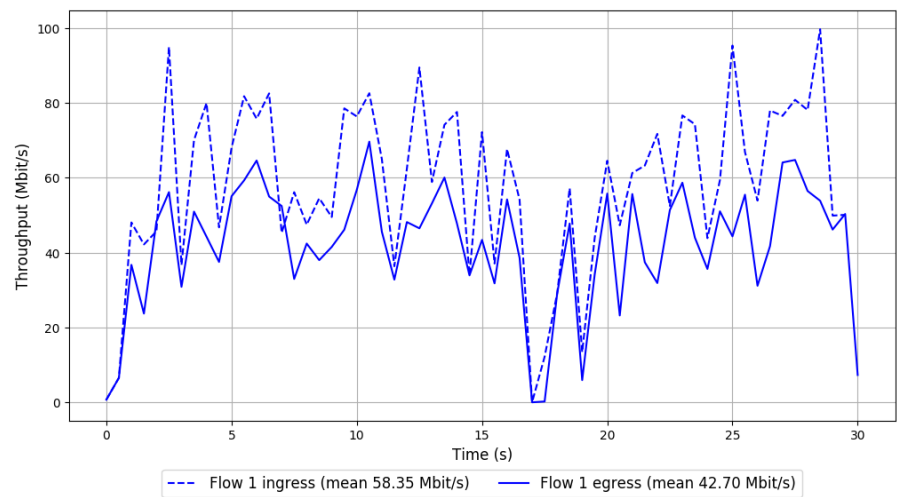
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	9	41.47	114.76	24.83
TCP Cubic	10	70.67	104.70	0.37
LEDBAT	9	12.67	87.81	0.00
PCC	8	29.71	89.23	0.41
QUIC Cubic	9	45.67	94.64	0.17
SCReAM	10	0.22	84.17	0.00
WebRTC media	10	2.04	88.62	0.01
Sprout	9	3.18	90.45	0.00
TaoVA-100x	10	69.64	113.46	0.63
TCP Vegas	9	42.46	87.30	0.34
Verus	10	30.31	144.88	53.45
Copa	10	71.96	85.91	0.00
FillP	9	95.80	111.52	14.51
Indigo	10	92.17	95.26	0.51

Run 1: Statistics of TCP BBR

Start at: 2018-01-09 10:03:37
End at: 2018-01-09 10:04:07
Local clock offset: -2.241 ms
Remote clock offset: -19.171 ms

Below is generated by plot.py at 2018-01-09 23:10:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 42.70 Mbit/s
95th percentile per-packet one-way delay: 100.686 ms
Loss rate: 26.75%
-- Flow 1:
Average throughput: 42.70 Mbit/s
95th percentile per-packet one-way delay: 100.686 ms
Loss rate: 26.75%

Run 1: Report of TCP BBR — Data Link

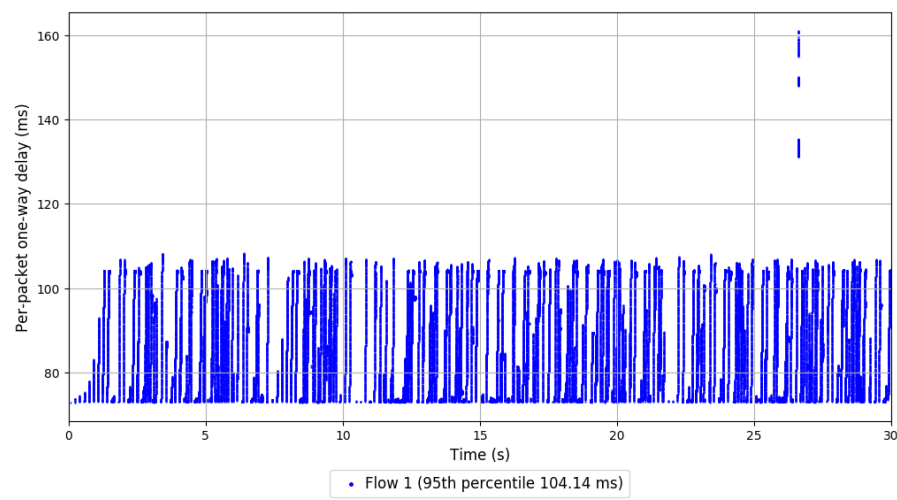
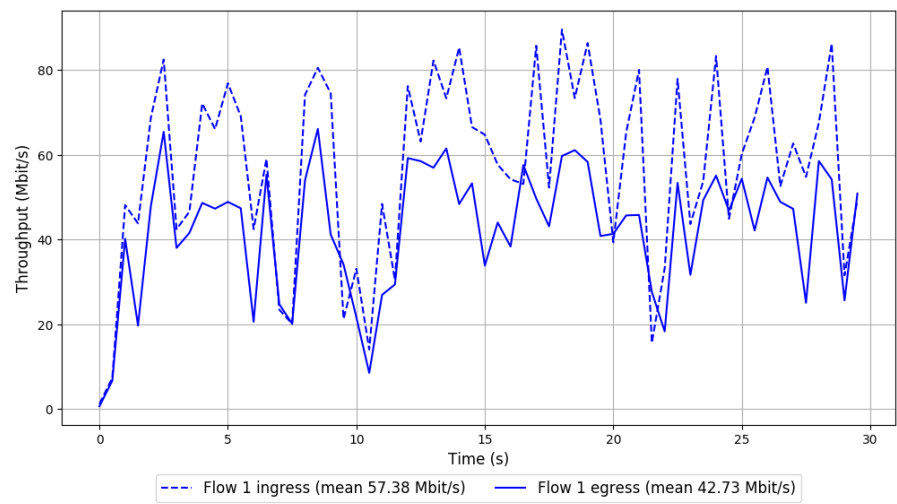


Run 2: Statistics of TCP BBR

Start at: 2018-01-09 13:03:07
End at: 2018-01-09 13:03:37
Local clock offset: 0.167 ms
Remote clock offset: -13.331 ms

Below is generated by plot.py at 2018-01-09 23:10:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 42.73 Mbit/s
95th percentile per-packet one-way delay: 104.135 ms
Loss rate: 25.47%
-- Flow 1:
Average throughput: 42.73 Mbit/s
95th percentile per-packet one-way delay: 104.135 ms
Loss rate: 25.47%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

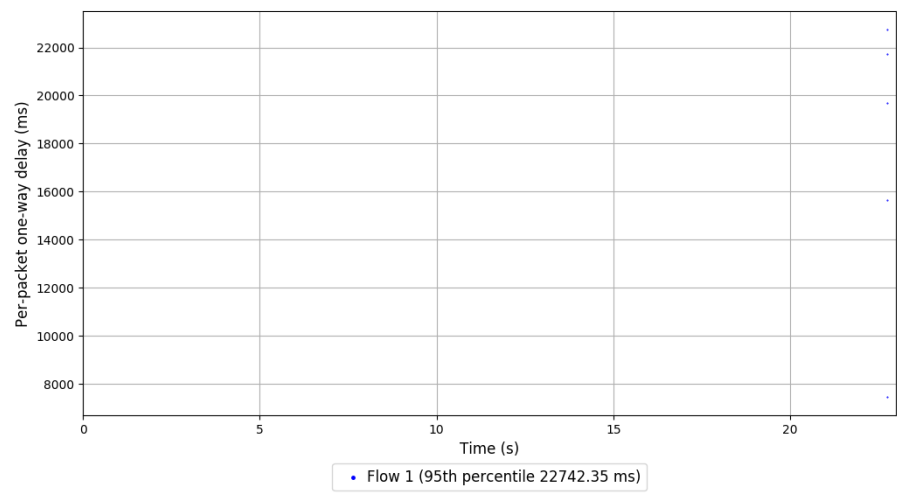
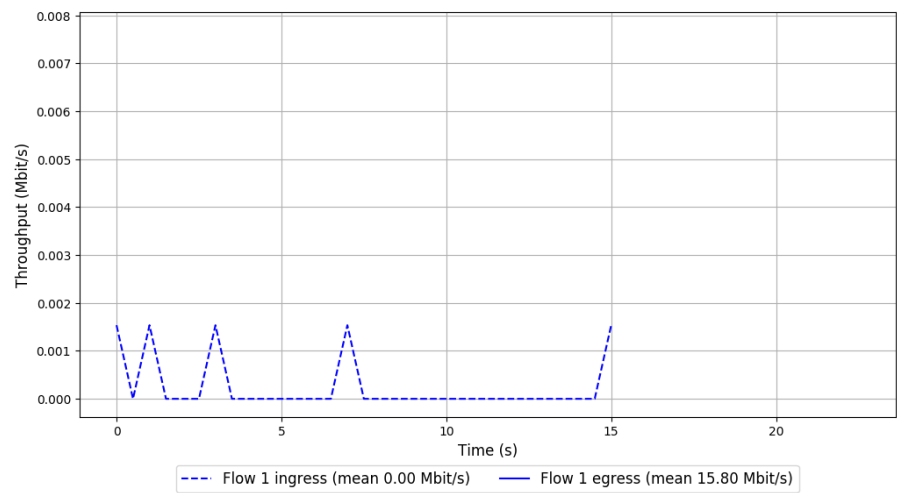
Start at: 2018-01-09 15:24:46

End at: 2018-01-09 15:25:16

Local clock offset: 1.197 ms

Remote clock offset: -1.018 ms

Run 3: Report of TCP BBR — Data Link

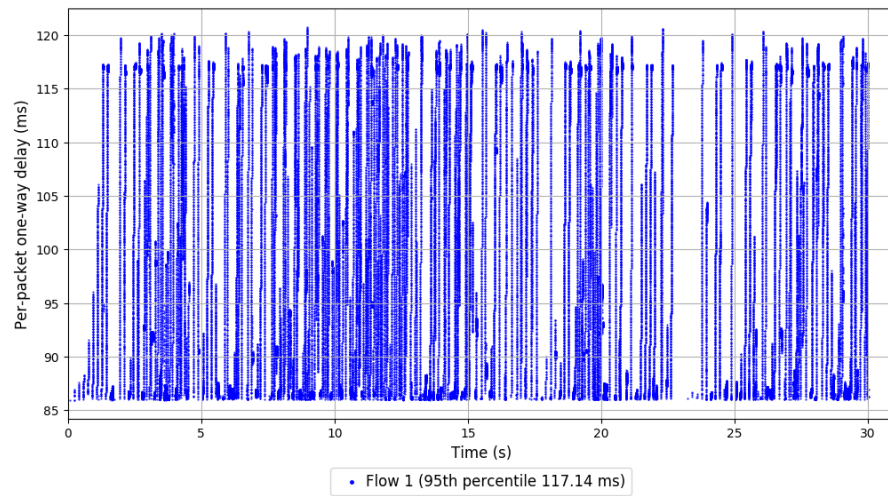
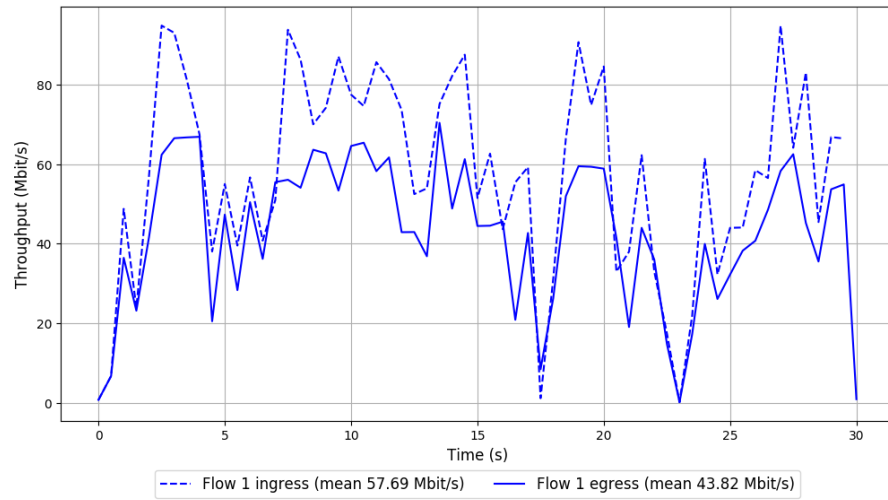


Run 4: Statistics of TCP BBR

Start at: 2018-01-09 16:41:37
End at: 2018-01-09 16:42:07
Local clock offset: 1.777 ms
Remote clock offset: -0.073 ms

Below is generated by plot.py at 2018-01-09 23:10:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 43.82 Mbit/s
95th percentile per-packet one-way delay: 117.145 ms
Loss rate: 24.04%
-- Flow 1:
Average throughput: 43.82 Mbit/s
95th percentile per-packet one-way delay: 117.145 ms
Loss rate: 24.04%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-09 18:03:35

End at: 2018-01-09 18:04:05

Local clock offset: 1.966 ms

Remote clock offset: 12.071 ms

Below is generated by plot.py at 2018-01-09 23:10:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.89 Mbit/s

95th percentile per-packet one-way delay: 129.287 ms

Loss rate: 24.90%

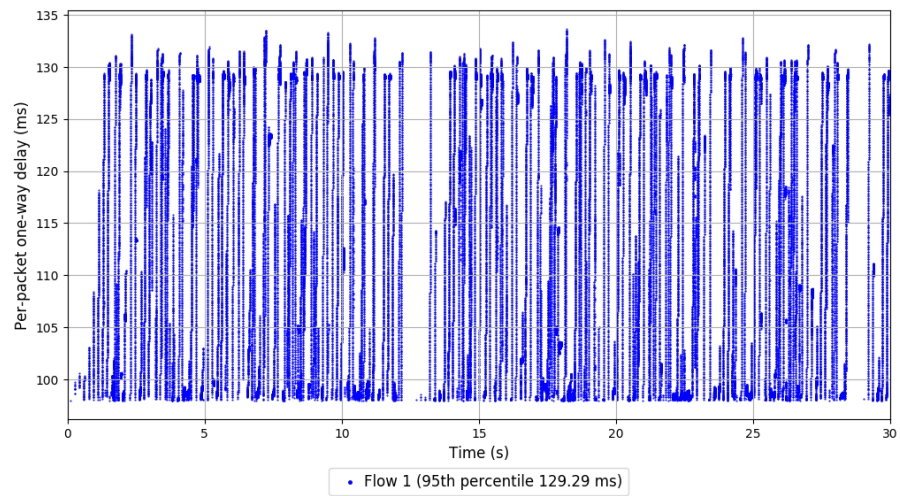
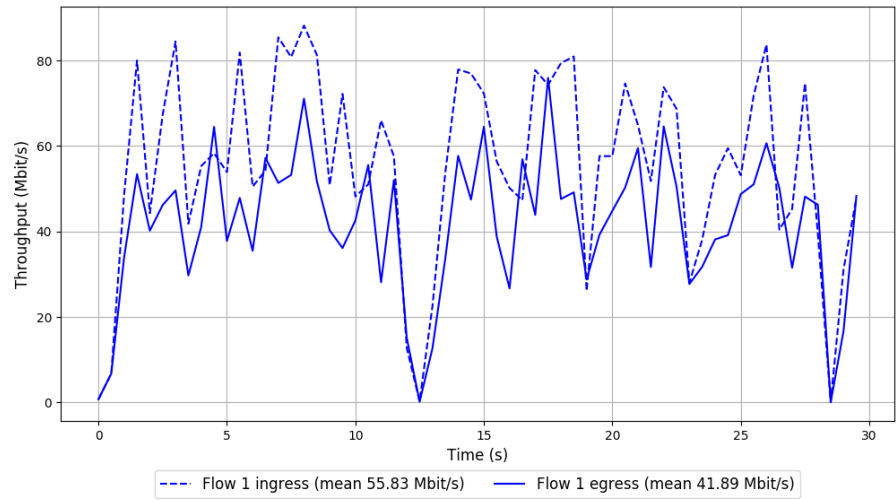
-- Flow 1:

Average throughput: 41.89 Mbit/s

95th percentile per-packet one-way delay: 129.287 ms

Loss rate: 24.90%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

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

End at: 2018-01-09 19:19:31

Local clock offset: 0.489 ms

Remote clock offset: 2.782 ms

Below is generated by plot.py at 2018-01-09 23:10:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.86 Mbit/s

95th percentile per-packet one-way delay: 124.790 ms

Loss rate: 24.25%

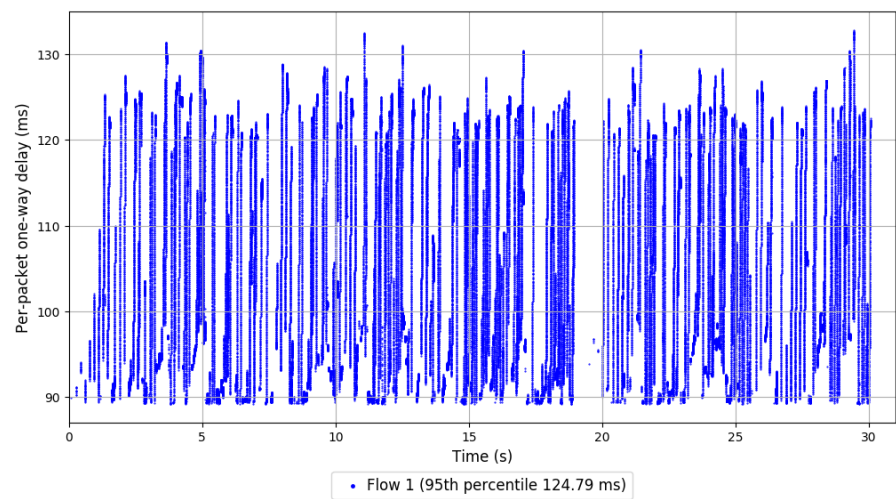
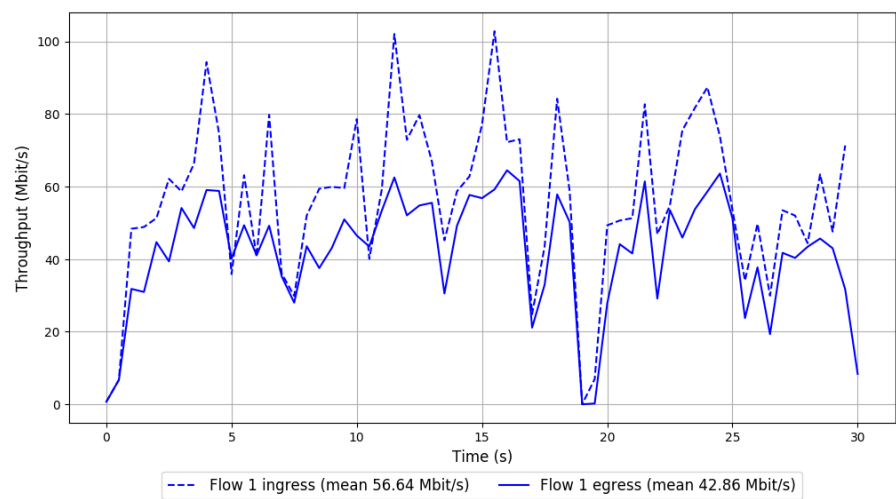
-- Flow 1:

Average throughput: 42.86 Mbit/s

95th percentile per-packet one-way delay: 124.790 ms

Loss rate: 24.25%

Run 6: Report of TCP BBR — Data Link

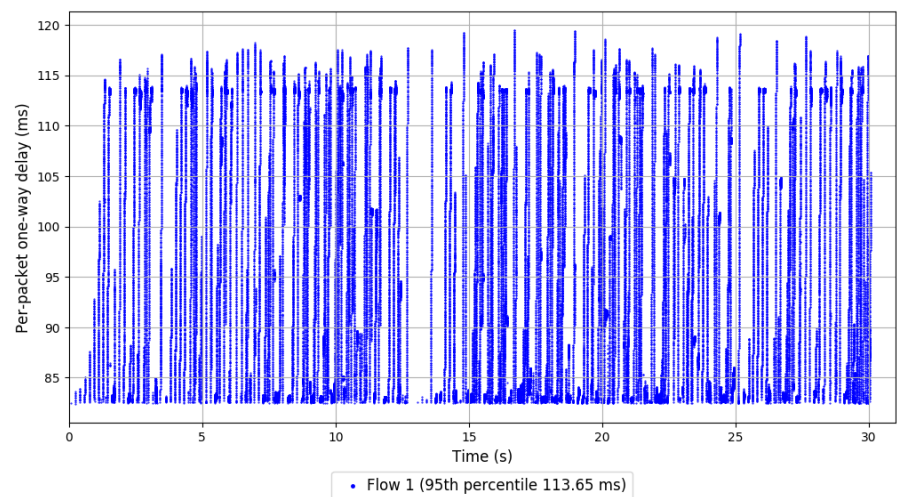
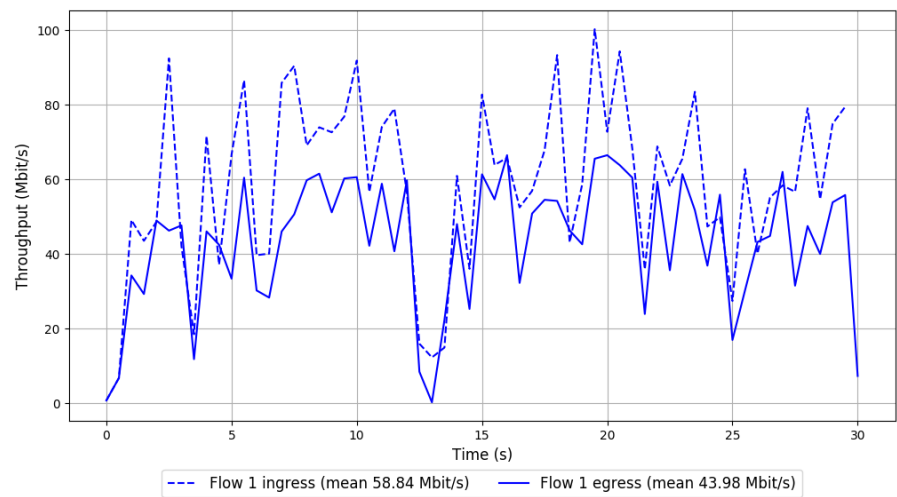


Run 7: Statistics of TCP BBR

Start at: 2018-01-09 20:39:56
End at: 2018-01-09 20:40:26
Local clock offset: 0.411 ms
Remote clock offset: -4.989 ms

Below is generated by plot.py at 2018-01-09 23:10:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 43.98 Mbit/s
95th percentile per-packet one-way delay: 113.654 ms
Loss rate: 25.20%
-- Flow 1:
Average throughput: 43.98 Mbit/s
95th percentile per-packet one-way delay: 113.654 ms
Loss rate: 25.20%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-09 21:59:05

End at: 2018-01-09 21:59:35

Local clock offset: 0.887 ms

Remote clock offset: -3.977 ms

Below is generated by plot.py at 2018-01-09 23:10:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.89 Mbit/s

95th percentile per-packet one-way delay: 111.513 ms

Loss rate: 23.32%

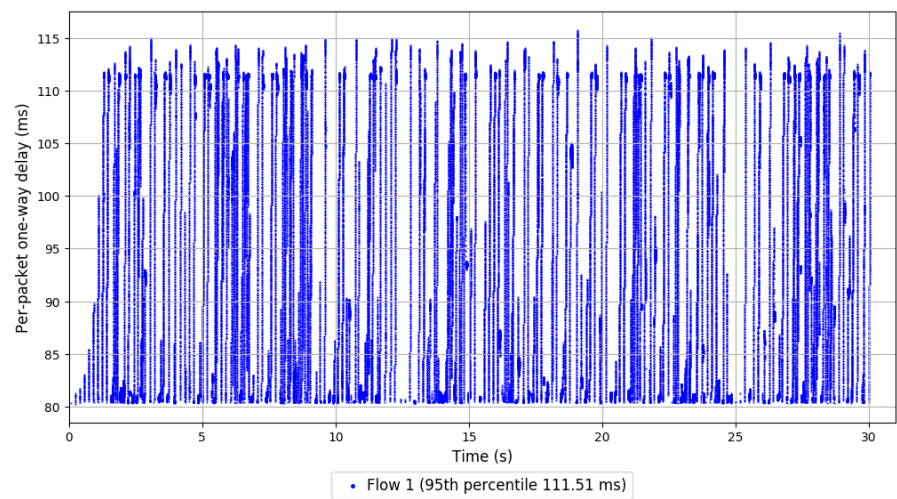
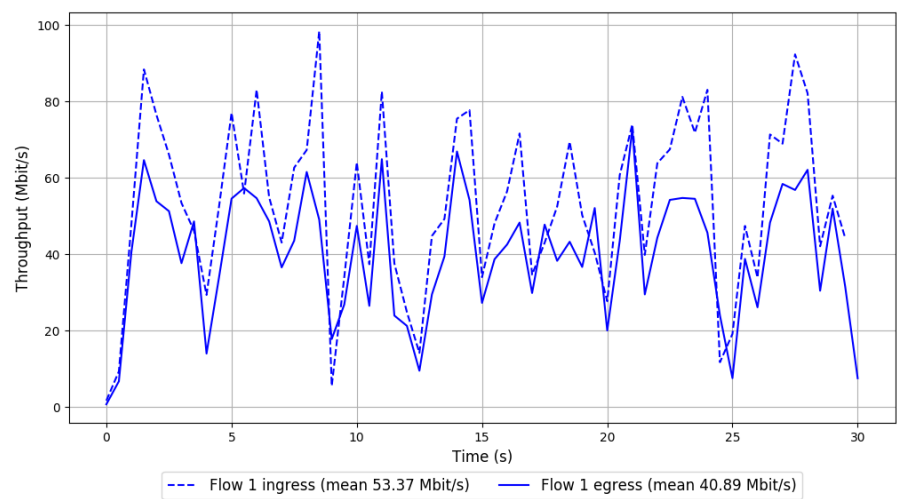
-- Flow 1:

Average throughput: 40.89 Mbit/s

95th percentile per-packet one-way delay: 111.513 ms

Loss rate: 23.32%

Run 8: Report of TCP BBR — Data Link

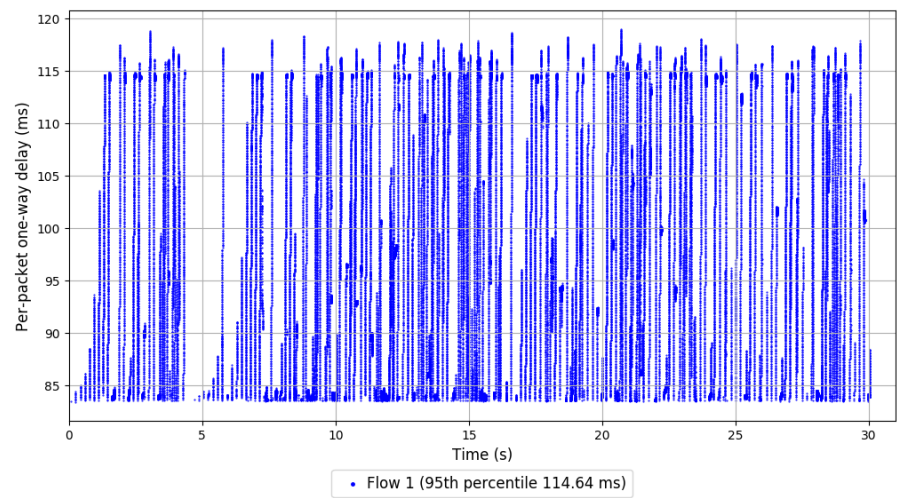
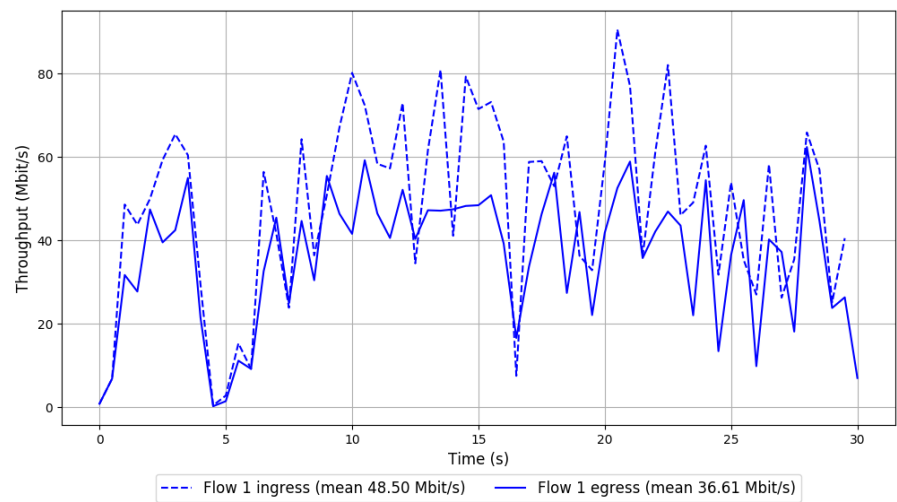


Run 9: Statistics of TCP BBR

Start at: 2018-01-09 22:39:25
End at: 2018-01-09 22:39:55
Local clock offset: 0.731 ms
Remote clock offset: -2.578 ms

Below is generated by plot.py at 2018-01-09 23:10:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 36.61 Mbit/s
95th percentile per-packet one-way delay: 114.638 ms
Loss rate: 24.50%
-- Flow 1:
Average throughput: 36.61 Mbit/s
95th percentile per-packet one-way delay: 114.638 ms
Loss rate: 24.50%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-09 22:57:36

End at: 2018-01-09 22:58:06

Local clock offset: 0.574 ms

Remote clock offset: 1.582 ms

Below is generated by plot.py at 2018-01-09 23:11:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.71 Mbit/s

95th percentile per-packet one-way delay: 117.009 ms

Loss rate: 25.05%

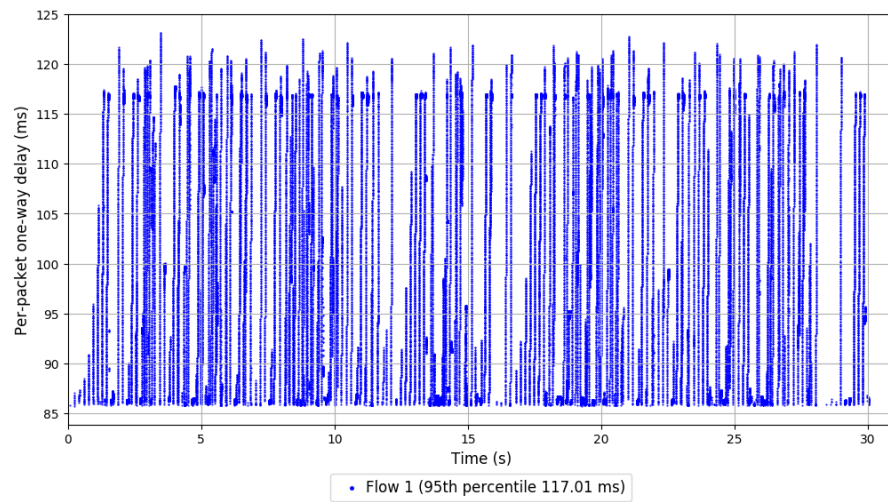
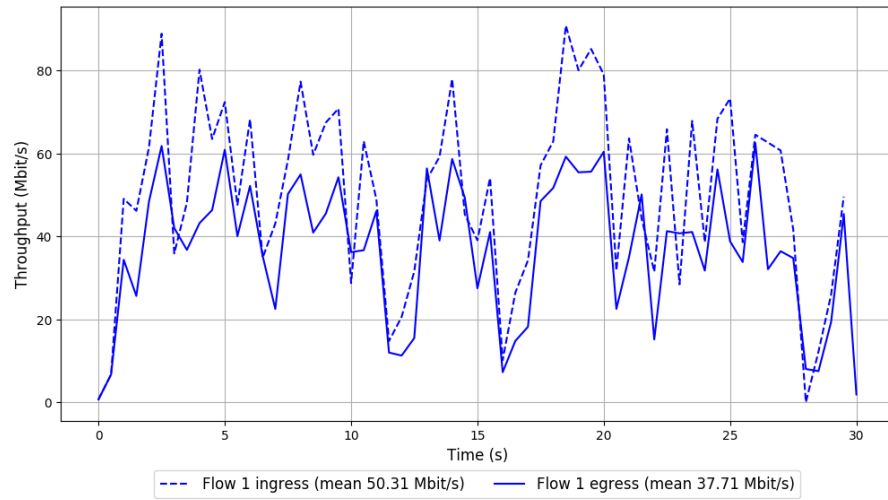
-- Flow 1:

Average throughput: 37.71 Mbit/s

95th percentile per-packet one-way delay: 117.009 ms

Loss rate: 25.05%

Run 10: Report of TCP BBR — Data Link

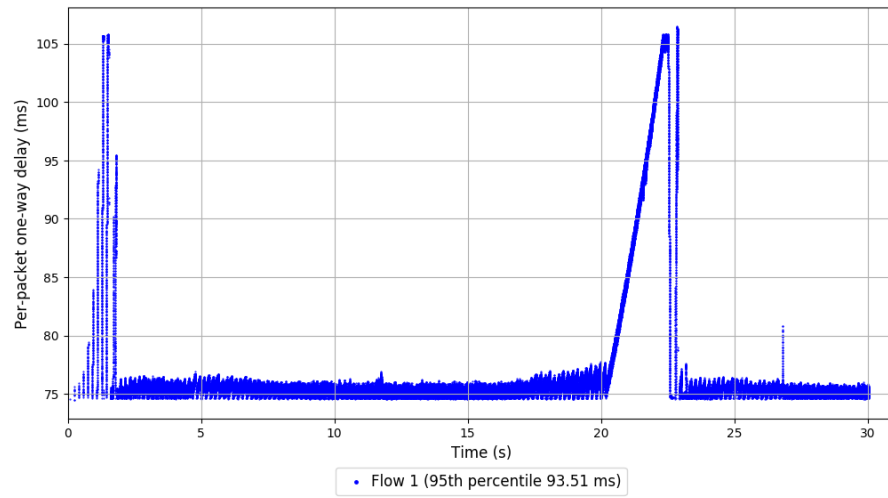
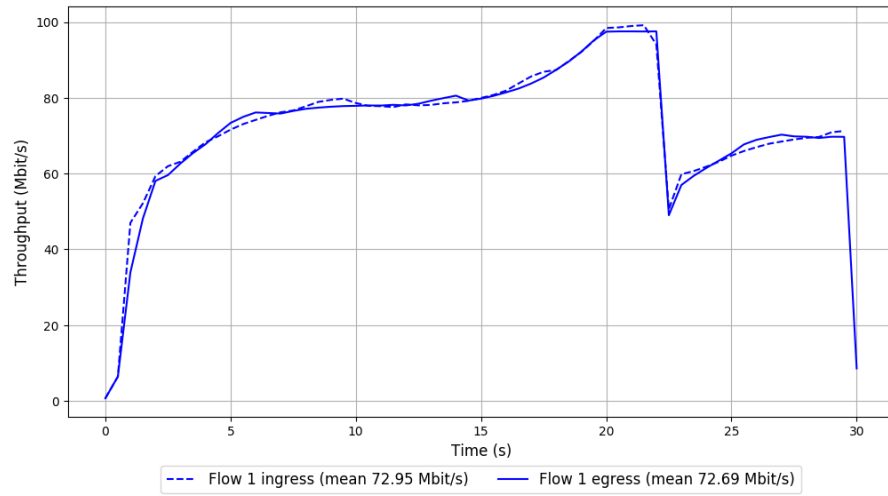


Run 1: Statistics of TCP Cubic

Start at: 2018-01-09 09:34:16
End at: 2018-01-09 09:34:46
Local clock offset: -2.233 ms
Remote clock offset: -14.575 ms

Below is generated by plot.py at 2018-01-09 23:12:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.69 Mbit/s
95th percentile per-packet one-way delay: 93.512 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 72.69 Mbit/s
95th percentile per-packet one-way delay: 93.512 ms
Loss rate: 0.34%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-09 12:31:31

End at: 2018-01-09 12:32:01

Local clock offset: -0.603 ms

Remote clock offset: 7.391 ms

Below is generated by plot.py at 2018-01-09 23:12:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.36 Mbit/s

95th percentile per-packet one-way delay: 112.442 ms

Loss rate: 0.39%

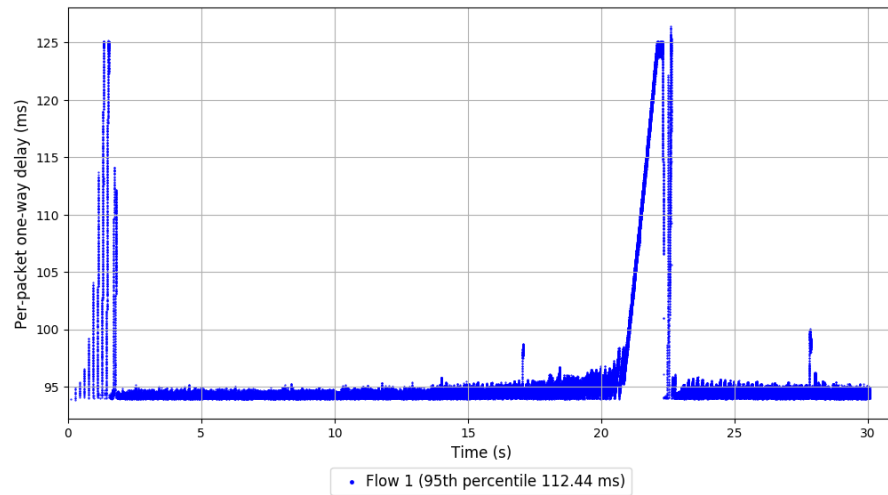
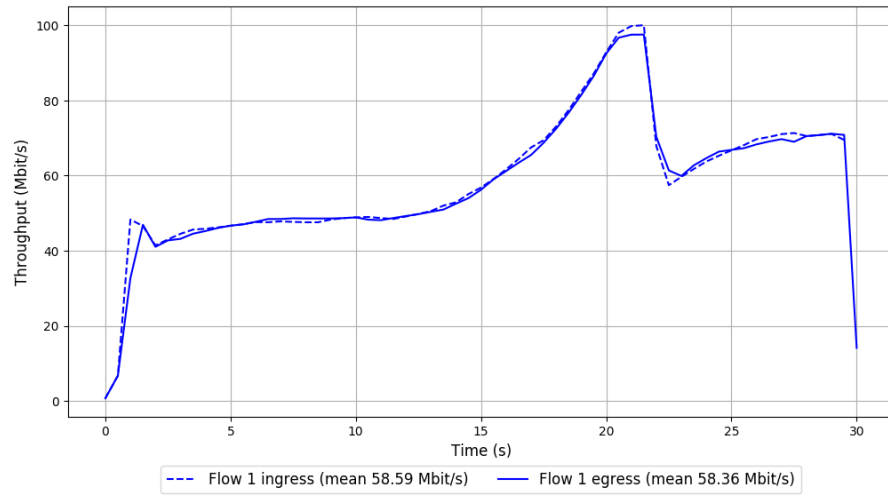
-- Flow 1:

Average throughput: 58.36 Mbit/s

95th percentile per-packet one-way delay: 112.442 ms

Loss rate: 0.39%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-09 15:19:45

End at: 2018-01-09 15:20:15

Local clock offset: 1.28 ms

Remote clock offset: -0.14 ms

Below is generated by plot.py at 2018-01-09 23:12:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.20 Mbit/s

95th percentile per-packet one-way delay: 106.546 ms

Loss rate: 0.51%

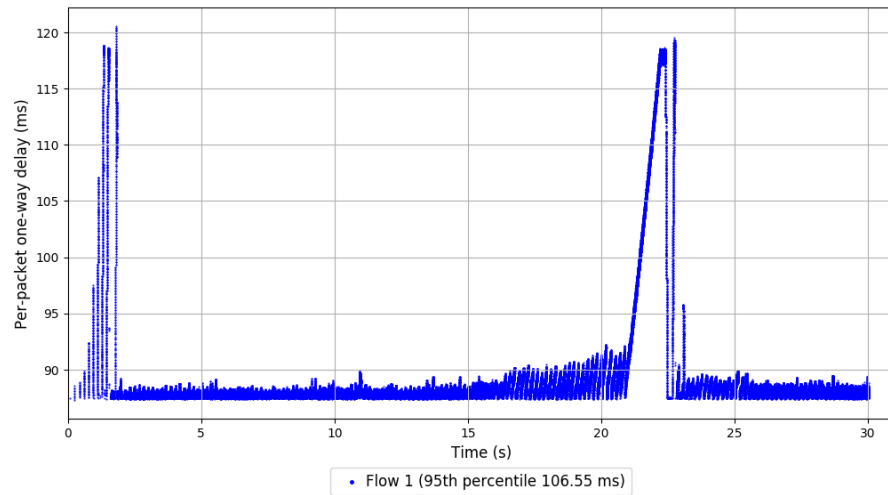
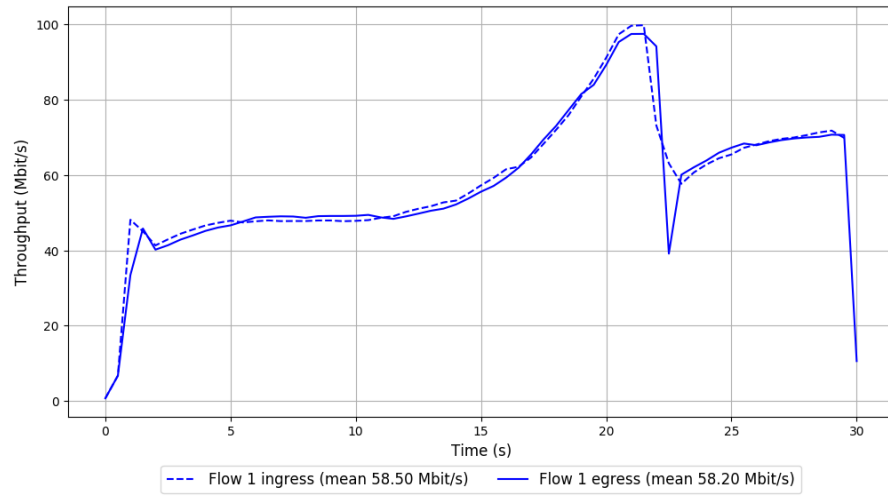
-- Flow 1:

Average throughput: 58.20 Mbit/s

95th percentile per-packet one-way delay: 106.546 ms

Loss rate: 0.51%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-09 16:26:48

End at: 2018-01-09 16:27:18

Local clock offset: 1.558 ms

Remote clock offset: -4.76 ms

Below is generated by plot.py at 2018-01-09 23:12:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.36 Mbit/s

95th percentile per-packet one-way delay: 102.747 ms

Loss rate: 0.35%

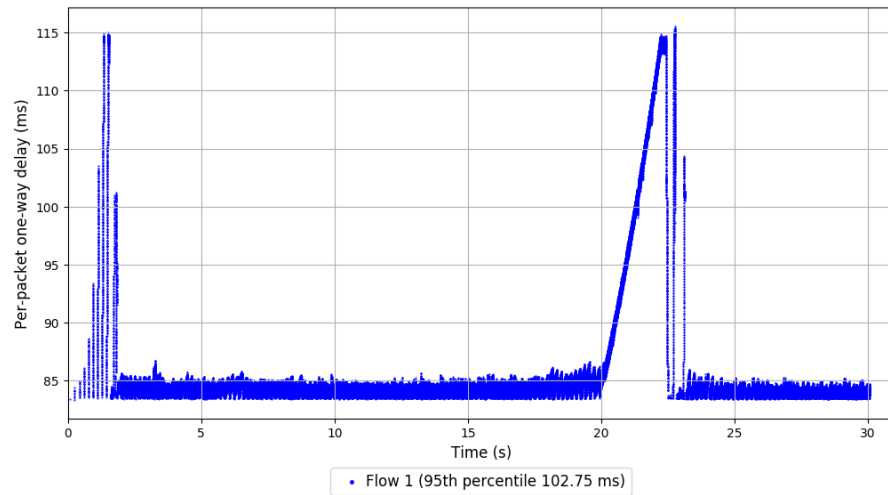
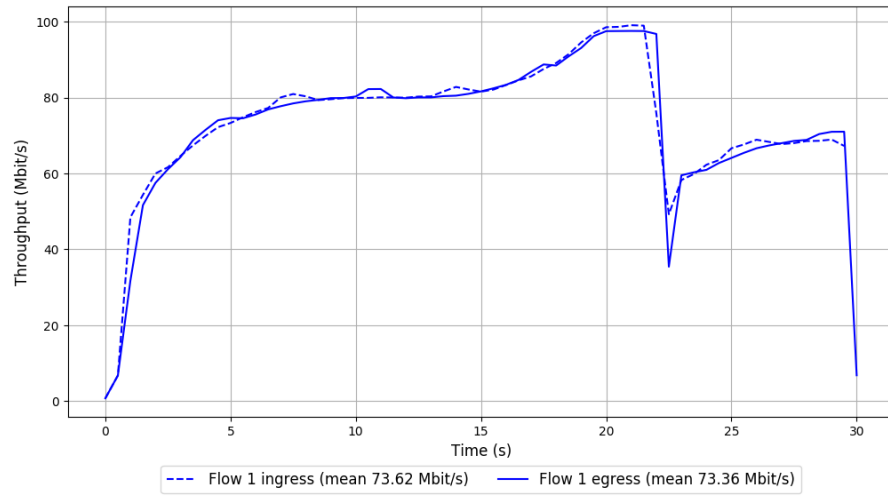
-- Flow 1:

Average throughput: 73.36 Mbit/s

95th percentile per-packet one-way delay: 102.747 ms

Loss rate: 0.35%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-09 17:49:51

End at: 2018-01-09 17:50:21

Local clock offset: 2.106 ms

Remote clock offset: 5.167 ms

Below is generated by plot.py at 2018-01-09 23:12:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.83 Mbit/s

95th percentile per-packet one-way delay: 109.552 ms

Loss rate: 0.32%

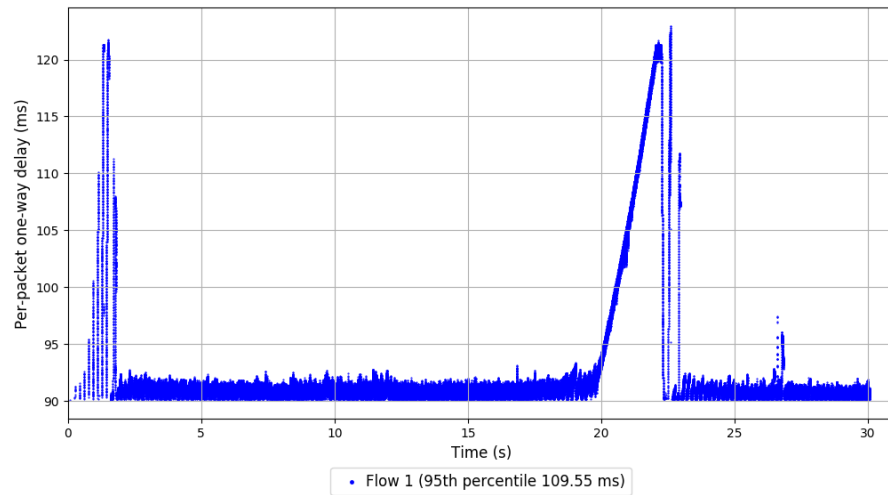
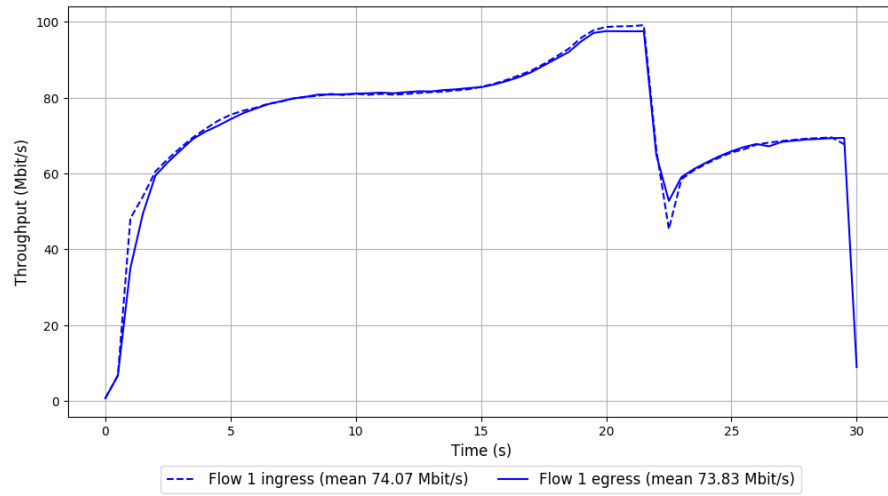
-- Flow 1:

Average throughput: 73.83 Mbit/s

95th percentile per-packet one-way delay: 109.552 ms

Loss rate: 0.32%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-09 19:02:53

End at: 2018-01-09 19:03:23

Local clock offset: 0.773 ms

Remote clock offset: 3.36 ms

Below is generated by plot.py at 2018-01-09 23:12:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.37 Mbit/s

95th percentile per-packet one-way delay: 109.874 ms

Loss rate: 0.41%

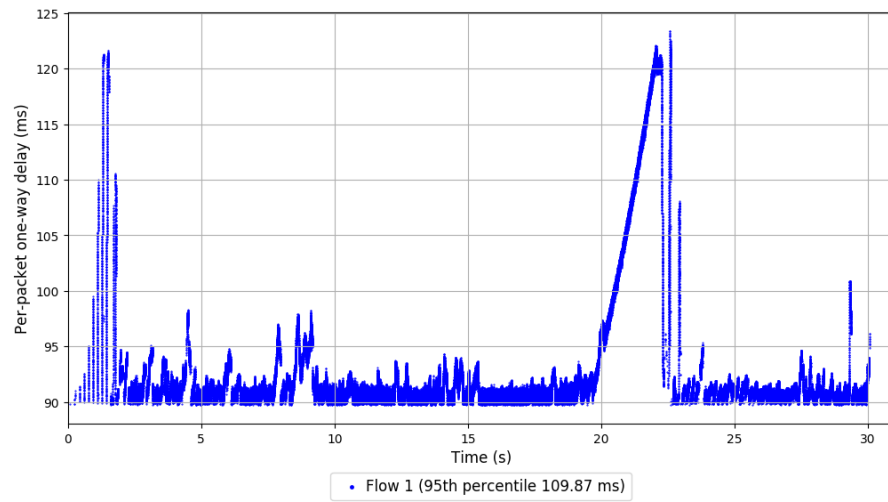
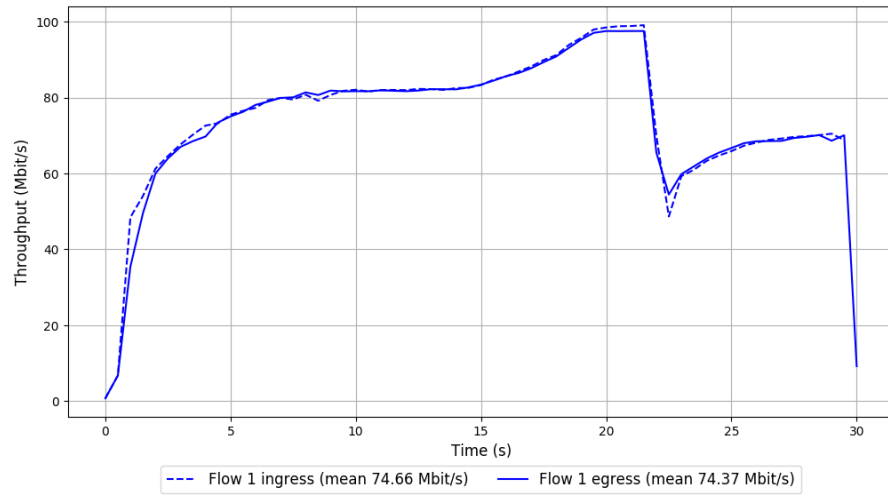
-- Flow 1:

Average throughput: 74.37 Mbit/s

95th percentile per-packet one-way delay: 109.874 ms

Loss rate: 0.41%

Run 6: Report of TCP Cubic — Data Link

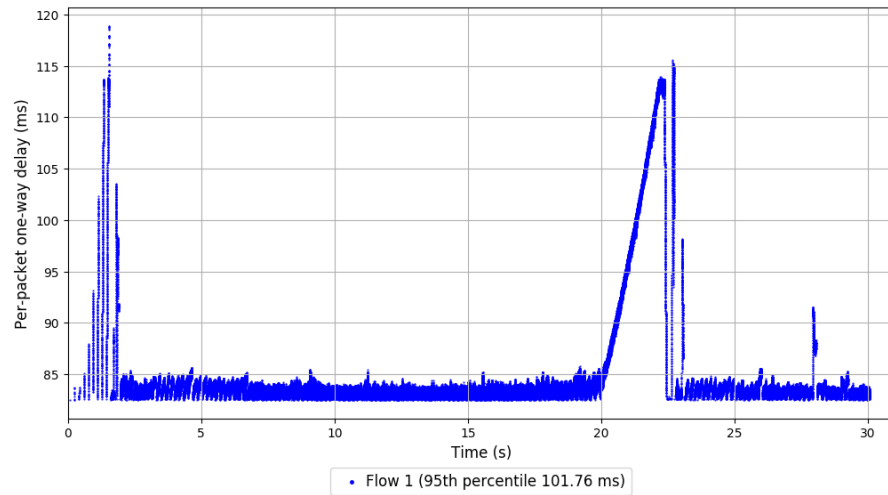
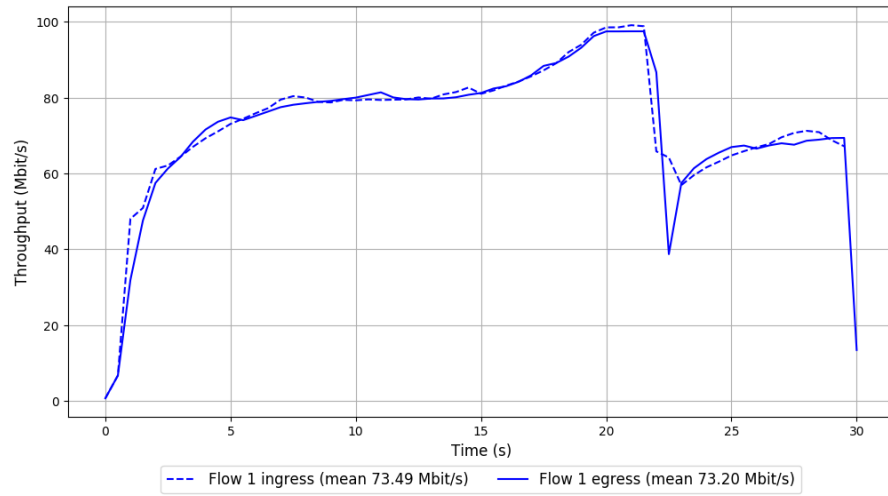


Run 7: Statistics of TCP Cubic

Start at: 2018-01-09 20:26:44
End at: 2018-01-09 20:27:14
Local clock offset: 0.369 ms
Remote clock offset: -4.379 ms

Below is generated by plot.py at 2018-01-09 23:12:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.20 Mbit/s
95th percentile per-packet one-way delay: 101.764 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 73.20 Mbit/s
95th percentile per-packet one-way delay: 101.764 ms
Loss rate: 0.39%

Run 7: Report of TCP Cubic — Data Link

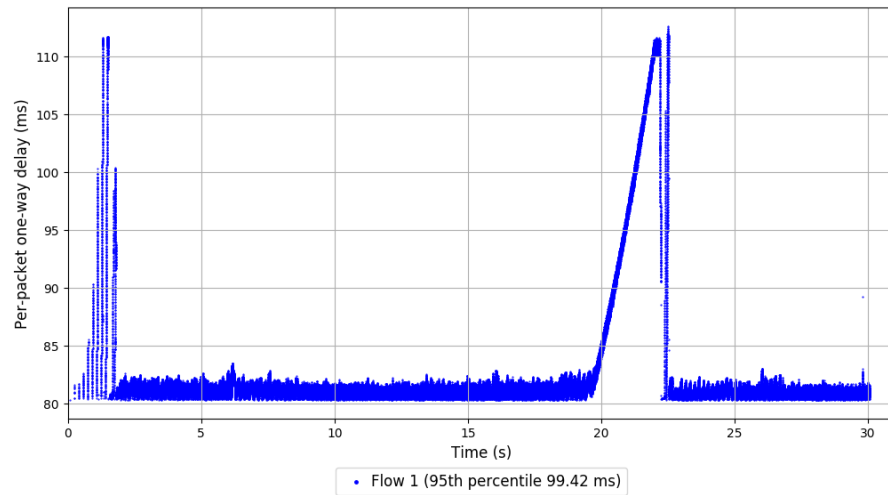
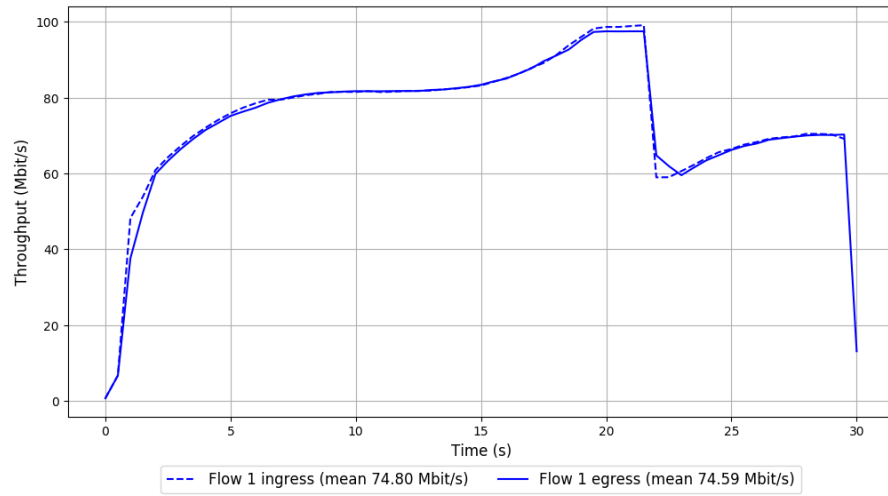


Run 8: Statistics of TCP Cubic

Start at: 2018-01-09 21:45:07
End at: 2018-01-09 21:45:38
Local clock offset: 1.026 ms
Remote clock offset: -4.064 ms

Below is generated by plot.py at 2018-01-09 23:13:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.59 Mbit/s
95th percentile per-packet one-way delay: 99.420 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 74.59 Mbit/s
95th percentile per-packet one-way delay: 99.420 ms
Loss rate: 0.27%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-09 22:36:55

End at: 2018-01-09 22:37:25

Local clock offset: 0.753 ms

Remote clock offset: 1.752 ms

Below is generated by plot.py at 2018-01-09 23:14:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.26 Mbit/s

95th percentile per-packet one-way delay: 105.449 ms

Loss rate: 0.34%

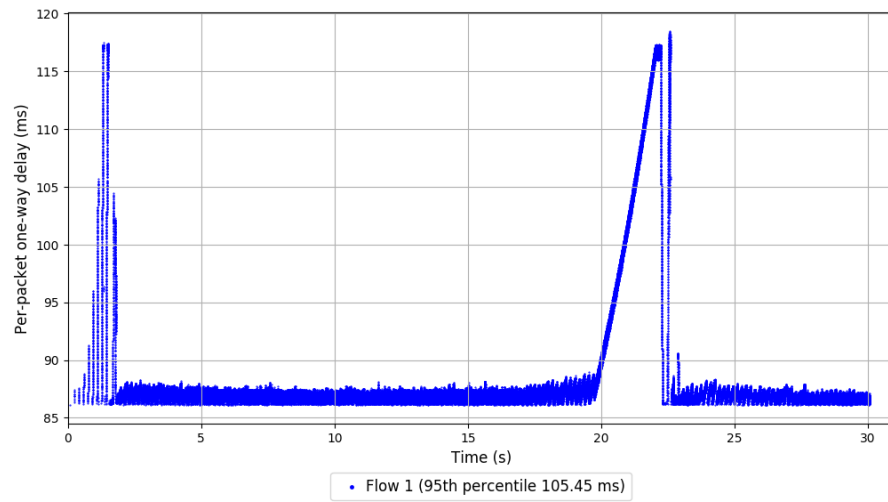
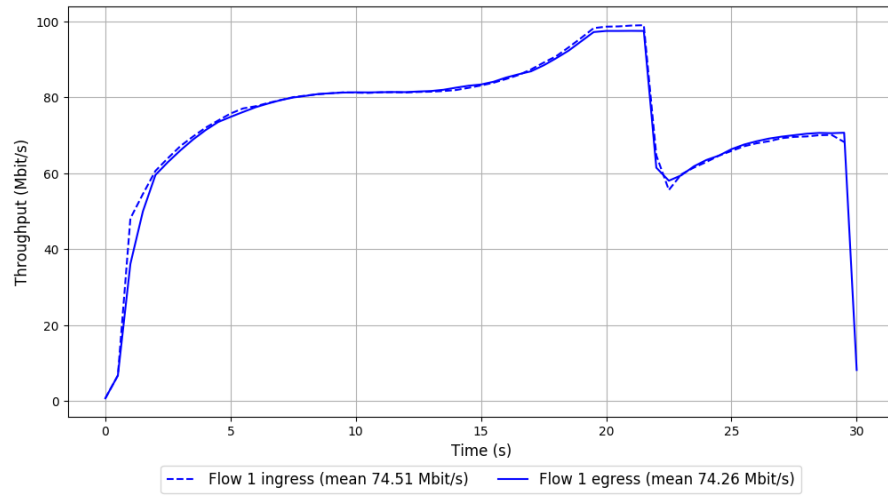
-- Flow 1:

Average throughput: 74.26 Mbit/s

95th percentile per-packet one-way delay: 105.449 ms

Loss rate: 0.34%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-09 22:55:05

End at: 2018-01-09 22:55:35

Local clock offset: 0.615 ms

Remote clock offset: 1.956 ms

Below is generated by plot.py at 2018-01-09 23:14:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.83 Mbit/s

95th percentile per-packet one-way delay: 105.723 ms

Loss rate: 0.34%

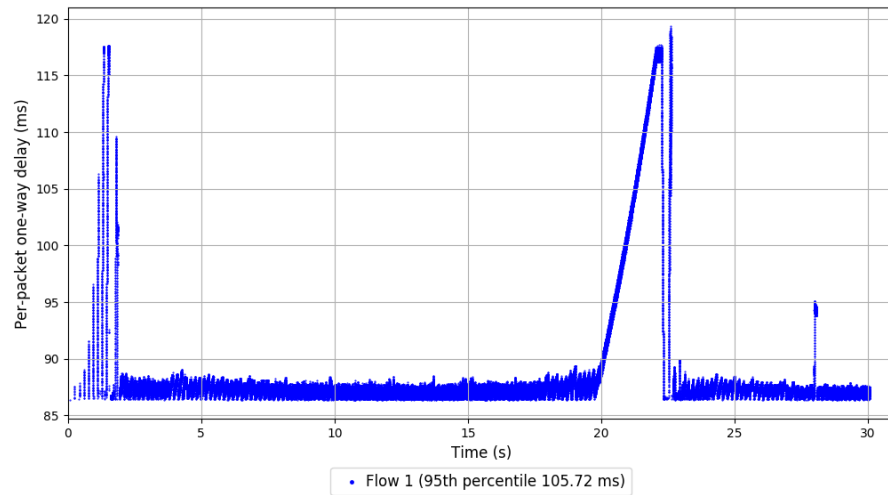
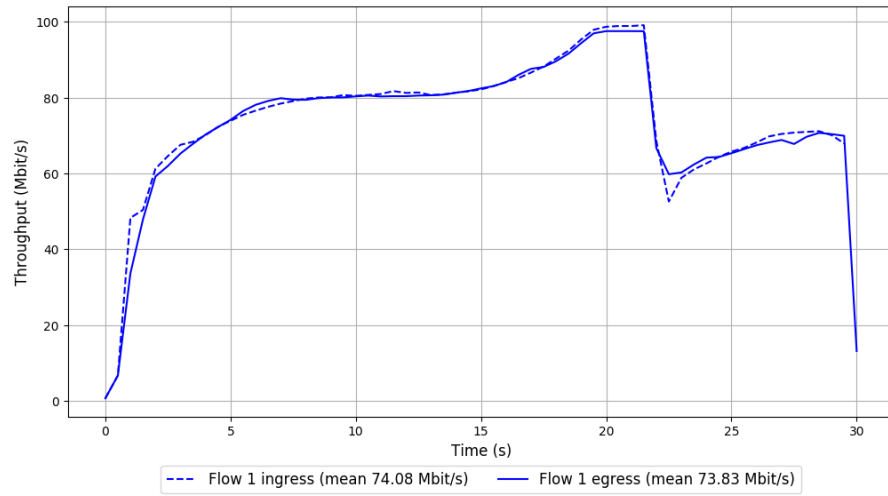
-- Flow 1:

Average throughput: 73.83 Mbit/s

95th percentile per-packet one-way delay: 105.723 ms

Loss rate: 0.34%

Run 10: Report of TCP Cubic — Data Link

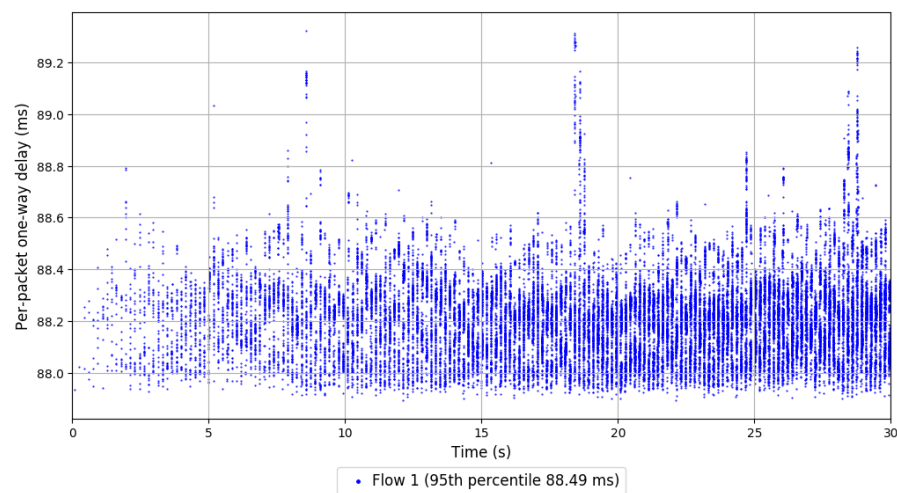
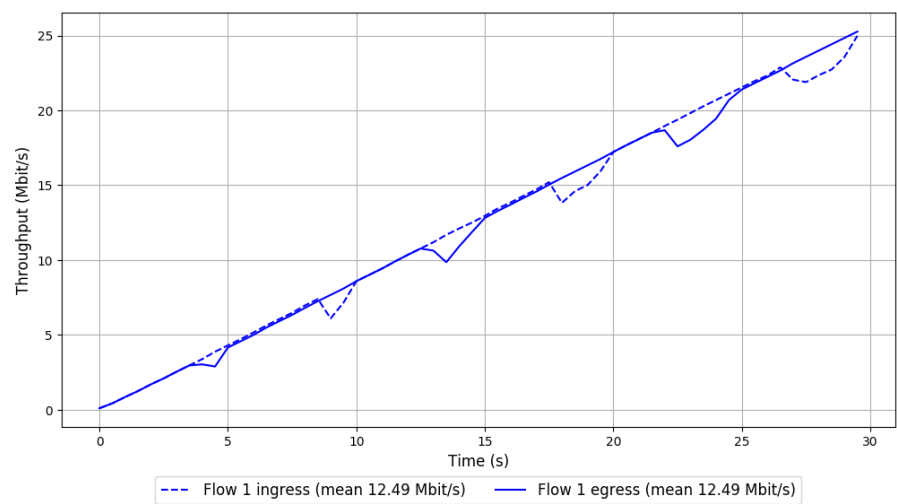


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-09 08:19:38
End at: 2018-01-09 08:20:08
Local clock offset: -1.624 ms
Remote clock offset: -0.99 ms

# Below is generated by plot.py at 2018-01-09 23:14:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.49 Mbit/s
95th percentile per-packet one-way delay: 88.486 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.49 Mbit/s
95th percentile per-packet one-way delay: 88.486 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

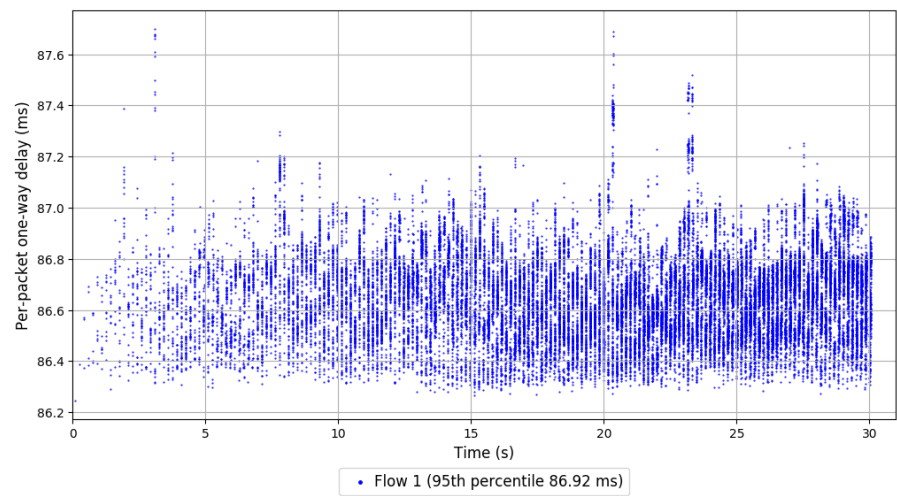
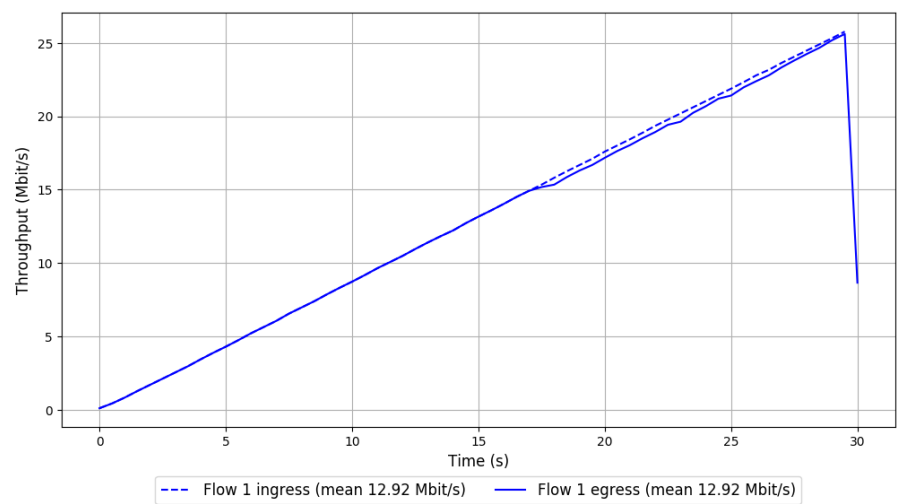


Run 2: Statistics of LEDBAT

Start at: 2018-01-09 11:10:15
End at: 2018-01-09 11:10:45
Local clock offset: -1.535 ms
Remote clock offset: -0.474 ms

Below is generated by plot.py at 2018-01-09 23:14:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.92 Mbit/s
95th percentile per-packet one-way delay: 86.924 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.92 Mbit/s
95th percentile per-packet one-way delay: 86.924 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-09 14:18:58

End at: 2018-01-09 14:19:28

Local clock offset: 1.262 ms

Remote clock offset: 1.472 ms

Below is generated by plot.py at 2018-01-09 23:14:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.93 Mbit/s

95th percentile per-packet one-way delay: 88.812 ms

Loss rate: 0.00%

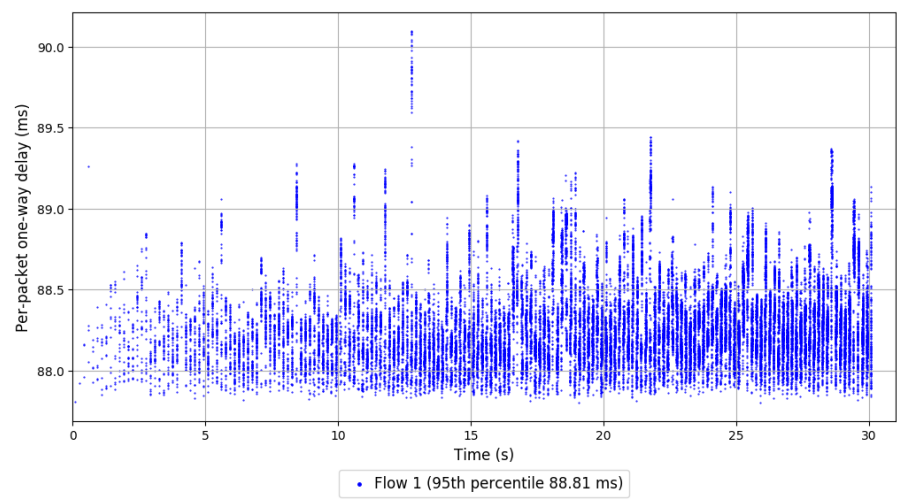
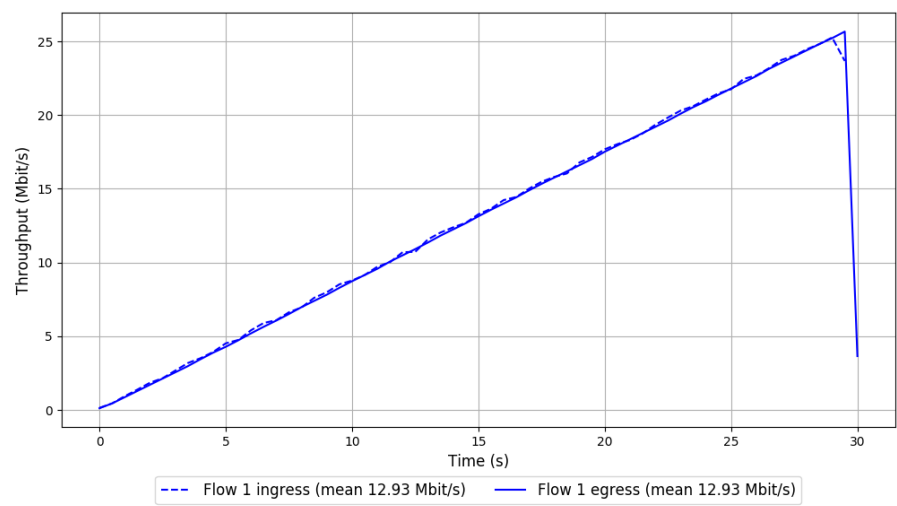
-- Flow 1:

Average throughput: 12.93 Mbit/s

95th percentile per-packet one-way delay: 88.812 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

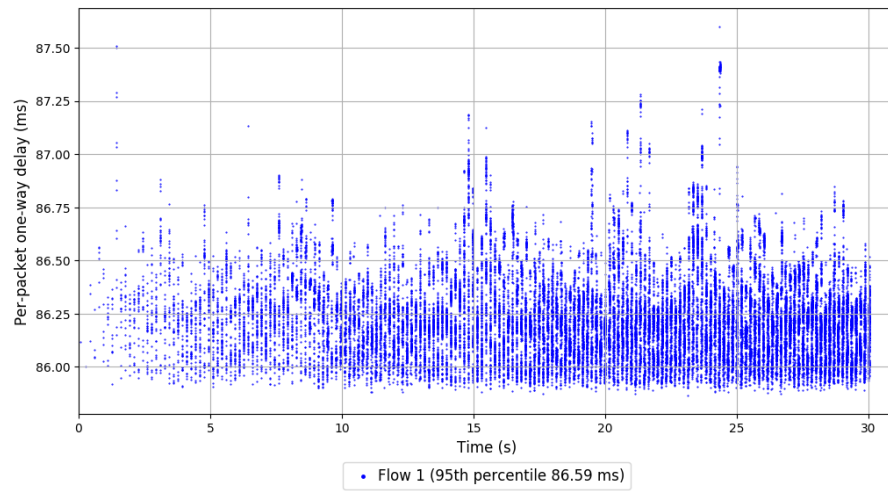
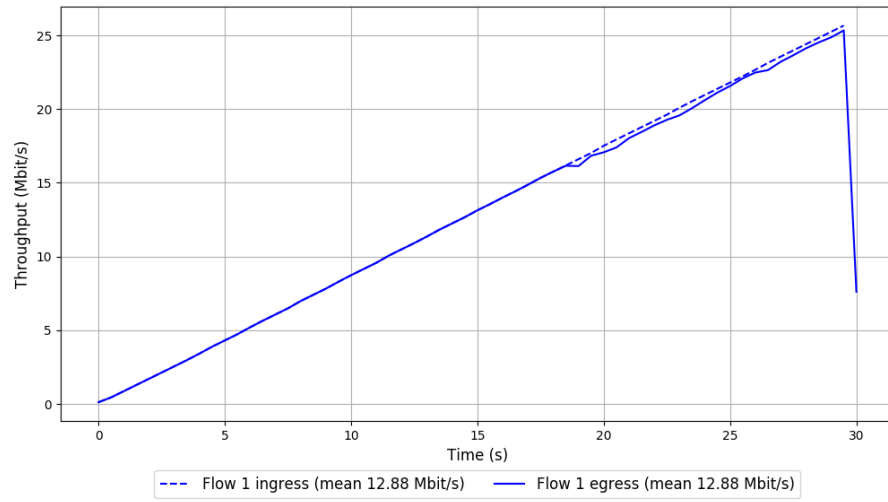


Run 4: Statistics of LEDBAT

Start at: 2018-01-09 15:53:41
End at: 2018-01-09 15:54:11
Local clock offset: 1.227 ms
Remote clock offset: -0.352 ms

Below is generated by plot.py at 2018-01-09 23:14:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.88 Mbit/s
95th percentile per-packet one-way delay: 86.589 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.88 Mbit/s
95th percentile per-packet one-way delay: 86.589 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-09 17:18:31

End at: 2018-01-09 17:19:01

Local clock offset: 2.09 ms

Remote clock offset: -5.07 ms

Run 5: Report of LEDBAT — Data Link

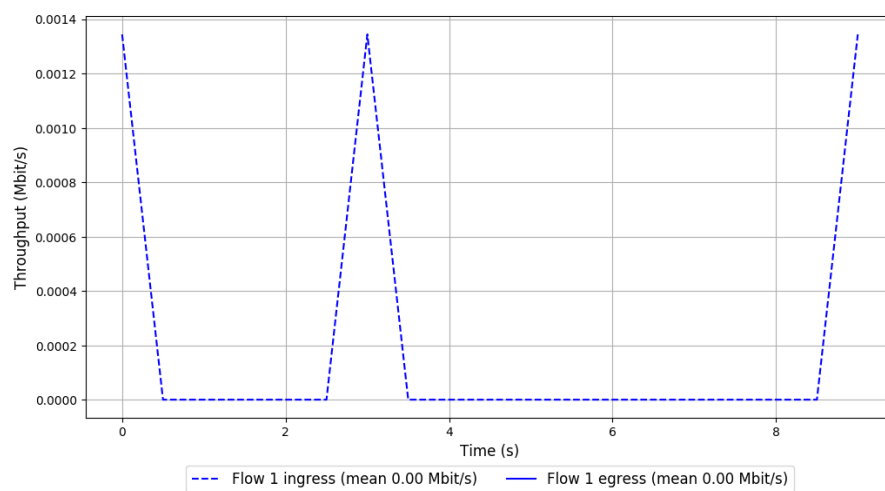


Figure is missing

Run 6: Statistics of LEDBAT

Start at: 2018-01-09 18:33:17

End at: 2018-01-09 18:33:47

Local clock offset: 1.302 ms

Remote clock offset: 5.706 ms

Below is generated by plot.py at 2018-01-09 23:14:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.42 Mbit/s

95th percentile per-packet one-way delay: 92.914 ms

Loss rate: 0.00%

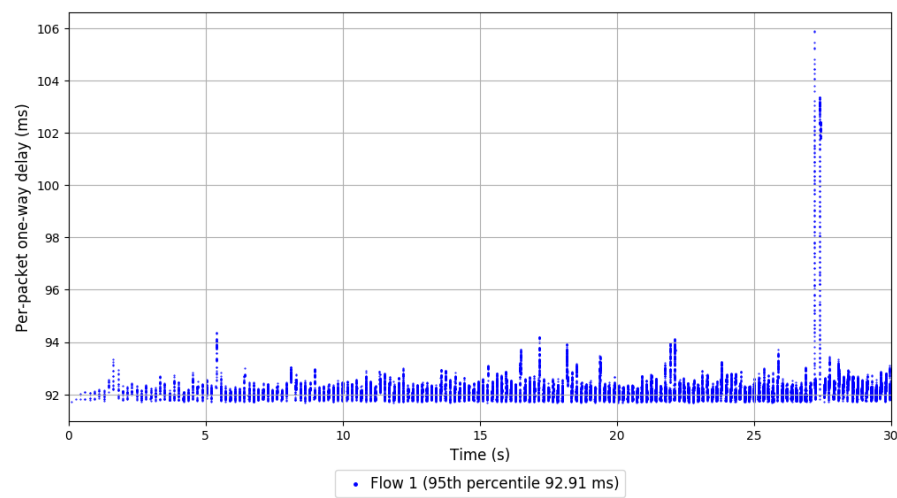
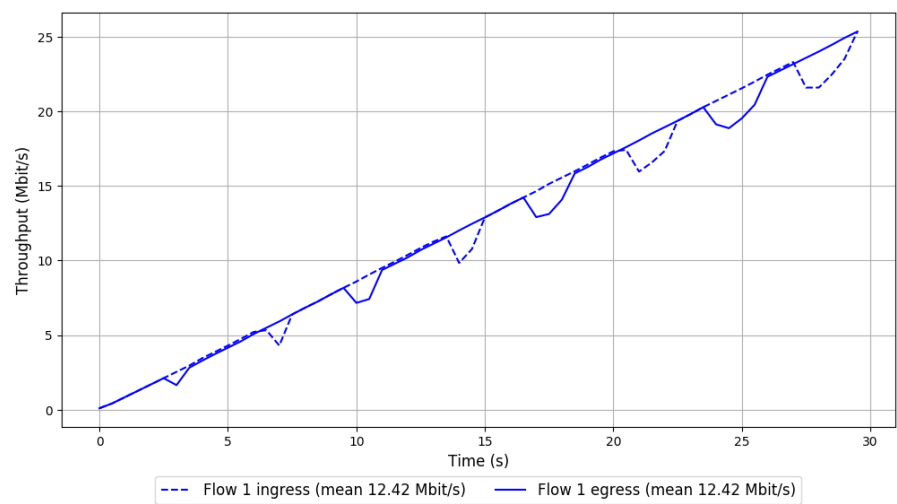
-- Flow 1:

Average throughput: 12.42 Mbit/s

95th percentile per-packet one-way delay: 92.914 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

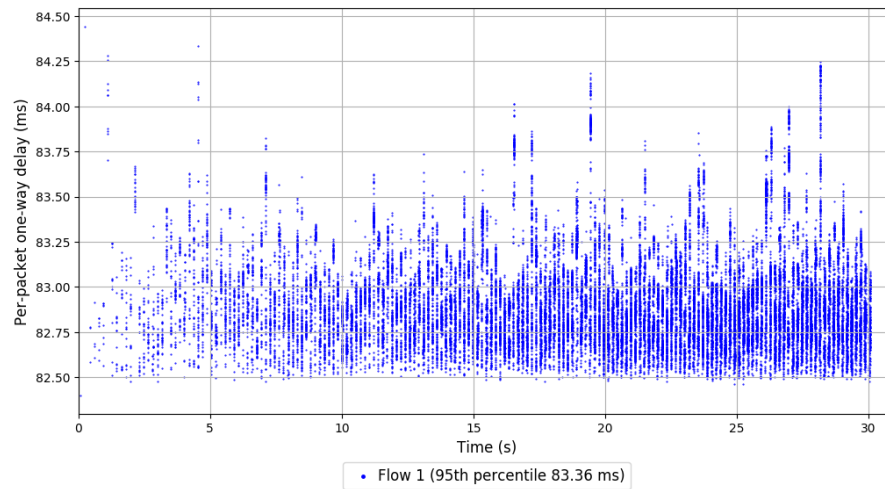
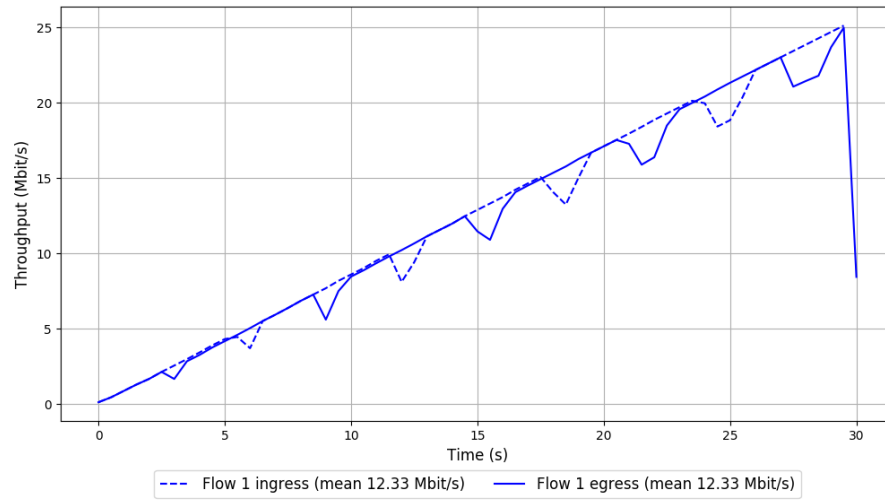


Run 7: Statistics of LEDBAT

Start at: 2018-01-09 19:52:58
End at: 2018-01-09 19:53:28
Local clock offset: 0.324 ms
Remote clock offset: -5.169 ms

Below is generated by plot.py at 2018-01-09 23:14:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.33 Mbit/s
95th percentile per-packet one-way delay: 83.358 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.33 Mbit/s
95th percentile per-packet one-way delay: 83.358 ms
Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-09 21:10:49

End at: 2018-01-09 21:11:19

Local clock offset: 0.811 ms

Remote clock offset: 0.449 ms

Below is generated by plot.py at 2018-01-09 23:14:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.85 Mbit/s

95th percentile per-packet one-way delay: 86.059 ms

Loss rate: 0.00%

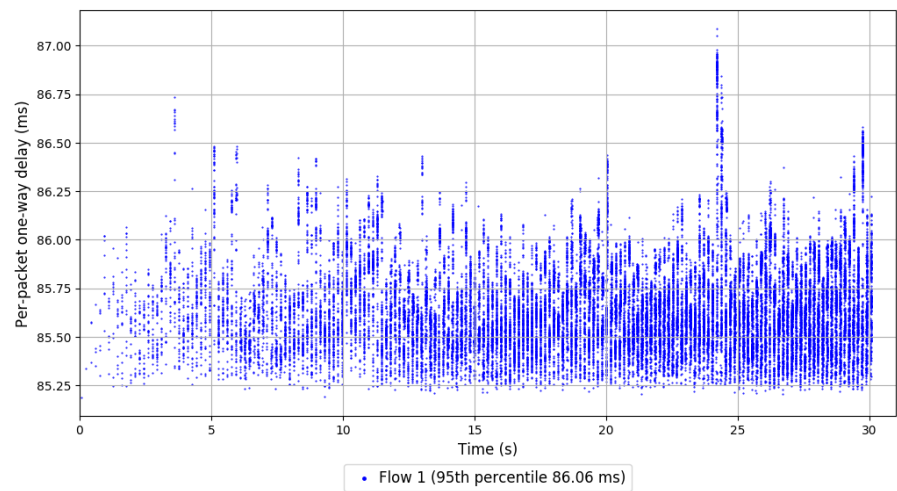
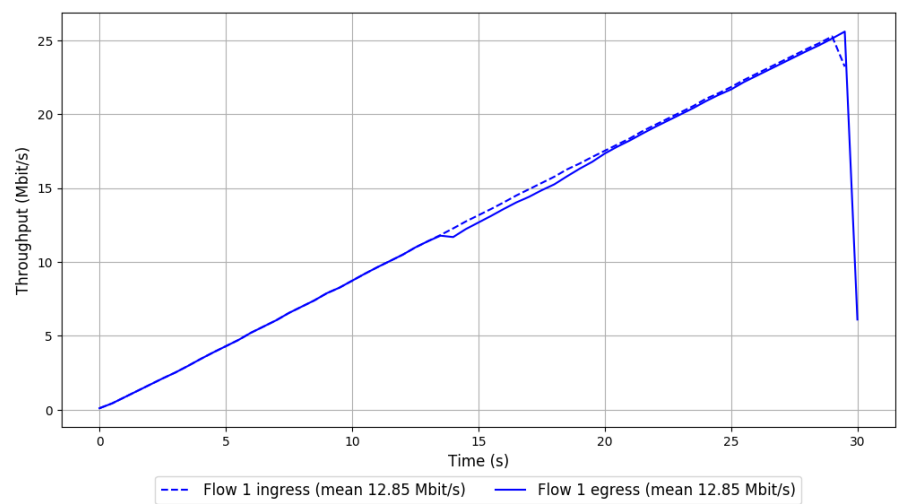
-- Flow 1:

Average throughput: 12.85 Mbit/s

95th percentile per-packet one-way delay: 86.059 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-09 22:31:54

End at: 2018-01-09 22:32:24

Local clock offset: 0.778 ms

Remote clock offset: 1.809 ms

Below is generated by plot.py at 2018-01-09 23:14:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.61 Mbit/s

95th percentile per-packet one-way delay: 88.442 ms

Loss rate: 0.00%

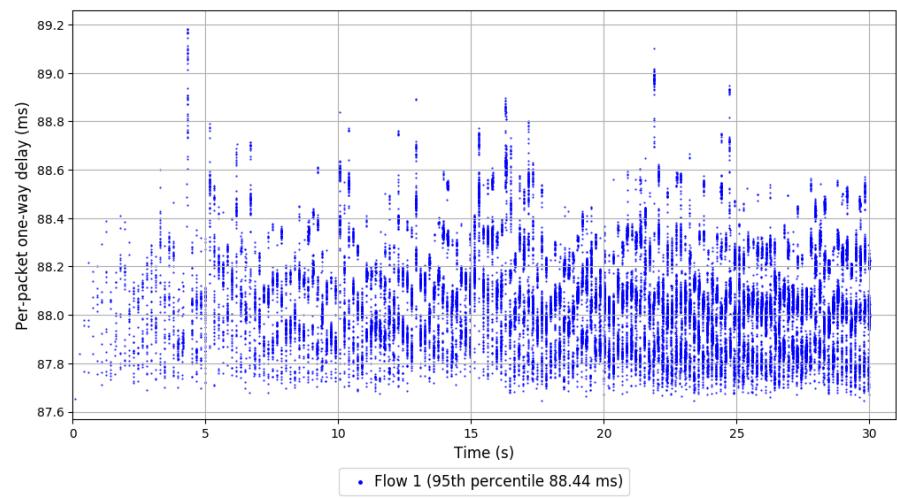
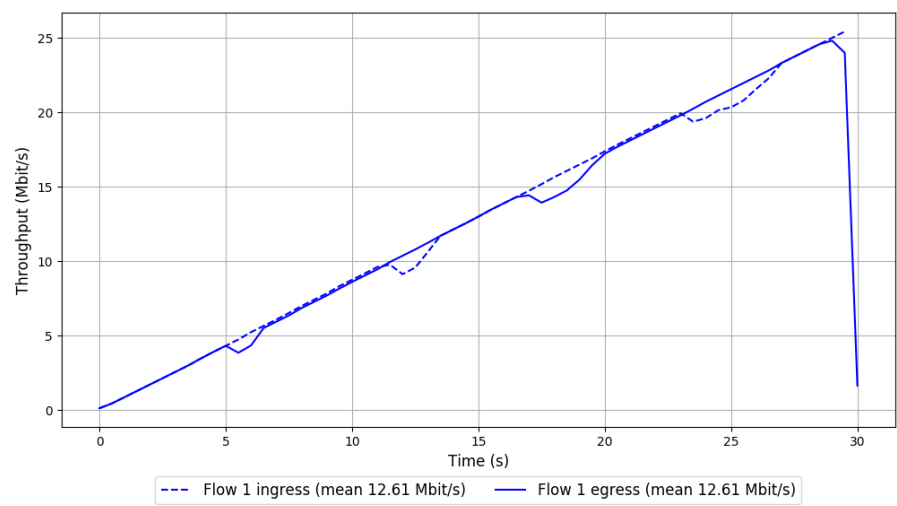
-- Flow 1:

Average throughput: 12.61 Mbit/s

95th percentile per-packet one-way delay: 88.442 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-09 22:50:07

End at: 2018-01-09 22:50:37

Local clock offset: 0.715 ms

Remote clock offset: 1.581 ms

Below is generated by plot.py at 2018-01-09 23:14:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.64 Mbit/s

95th percentile per-packet one-way delay: 88.741 ms

Loss rate: 0.00%

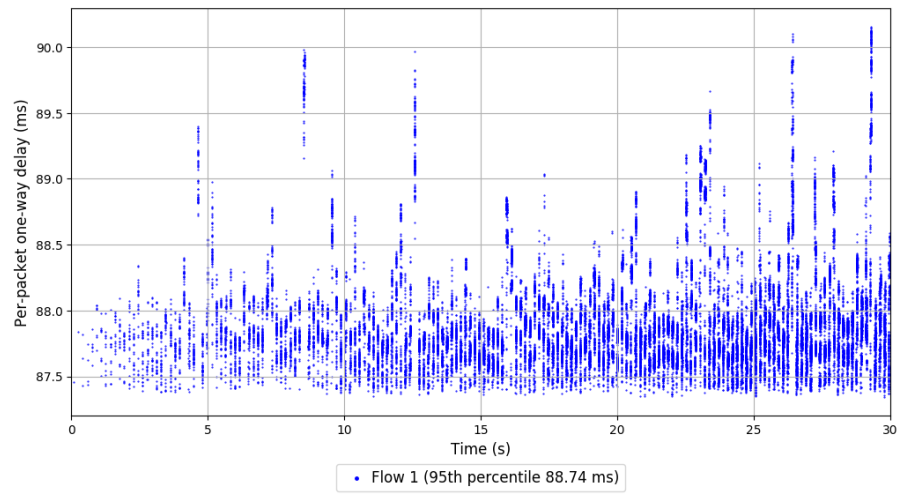
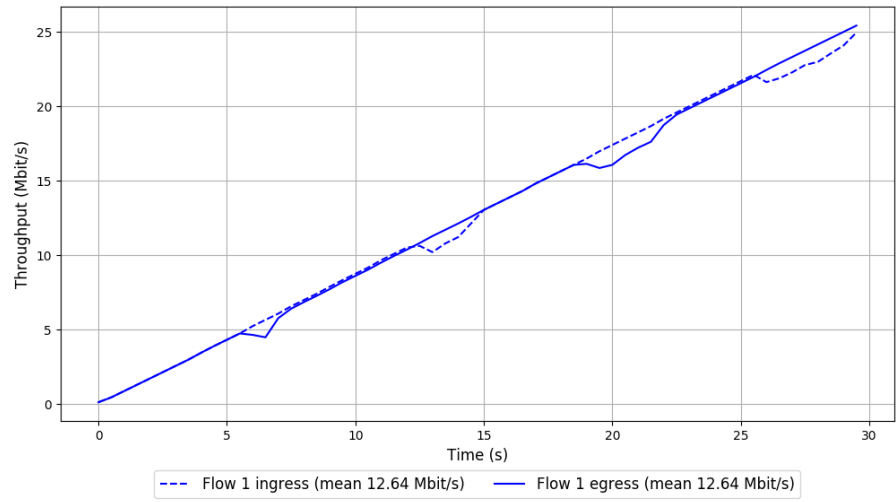
-- Flow 1:

Average throughput: 12.64 Mbit/s

95th percentile per-packet one-way delay: 88.741 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

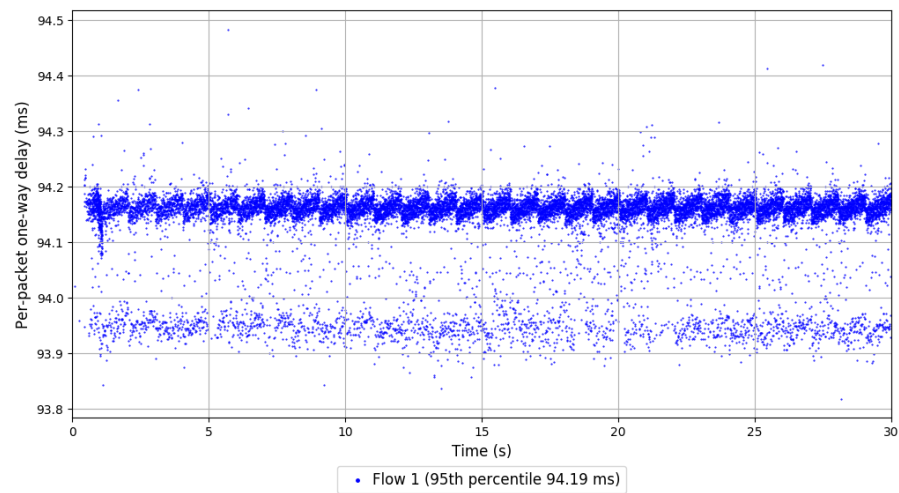
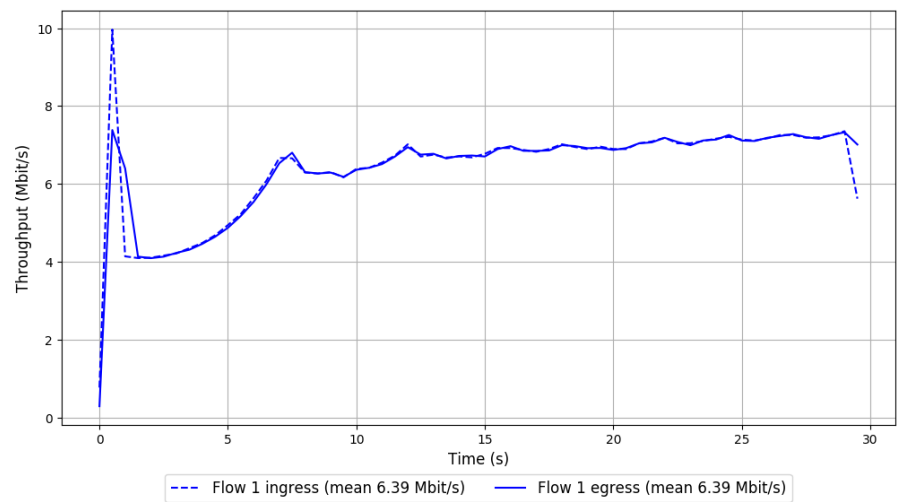


```
Run 1: Statistics of PCC

Start at: 2018-01-09 10:15:47
End at: 2018-01-09 10:16:17
Local clock offset: -2.081 ms
Remote clock offset: 7.577 ms

# Below is generated by plot.py at 2018-01-09 23:14:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.39 Mbit/s
95th percentile per-packet one-way delay: 94.188 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.39 Mbit/s
95th percentile per-packet one-way delay: 94.188 ms
Loss rate: 0.00%
```

Run 1: Report of PCC — Data Link

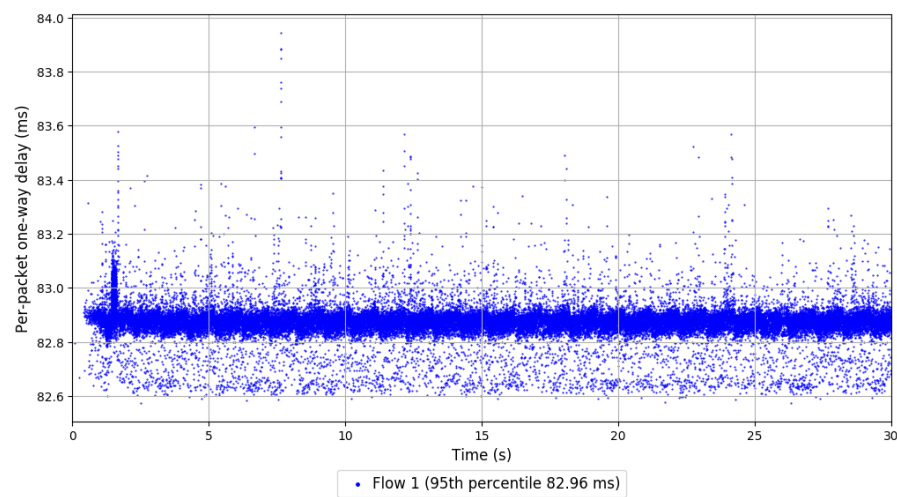
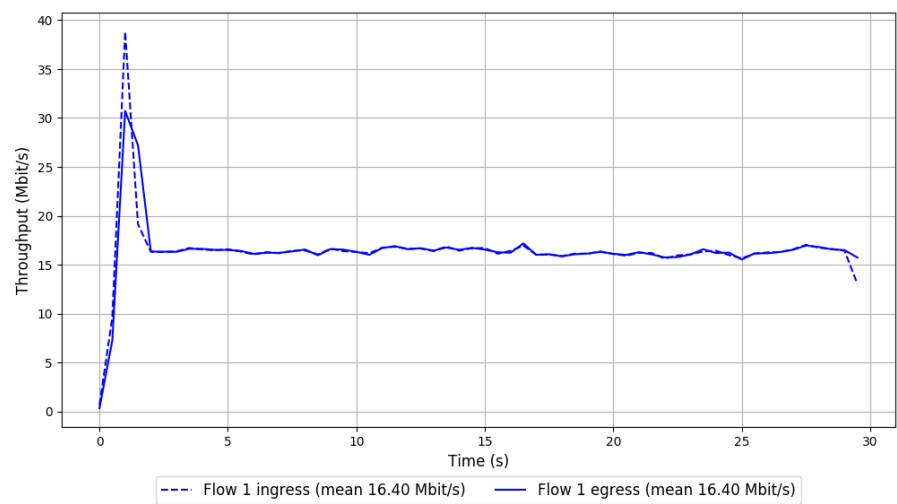


Run 2: Statistics of PCC

Start at: 2018-01-09 13:17:03
End at: 2018-01-09 13:17:33
Local clock offset: 0.392 ms
Remote clock offset: -5.896 ms

Below is generated by plot.py at 2018-01-09 23:14:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 16.40 Mbit/s
95th percentile per-packet one-way delay: 82.958 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 16.40 Mbit/s
95th percentile per-packet one-way delay: 82.958 ms
Loss rate: 0.00%

Run 2: Report of PCC — Data Link

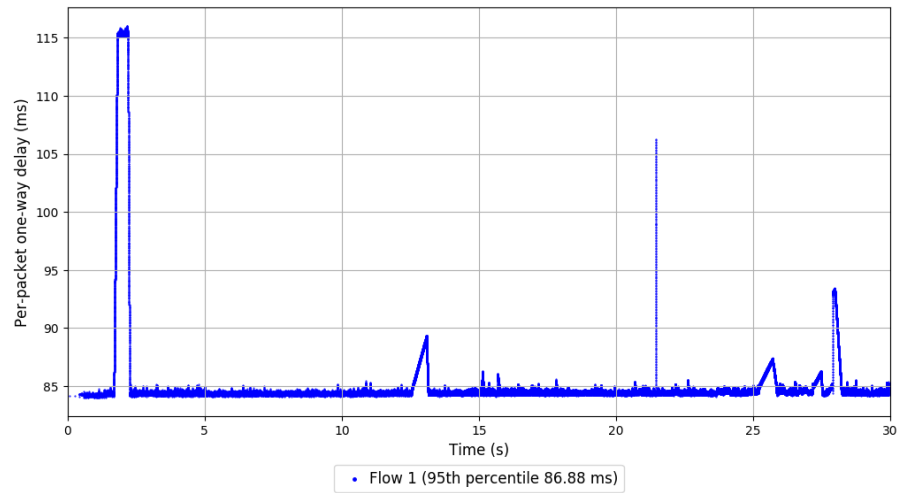
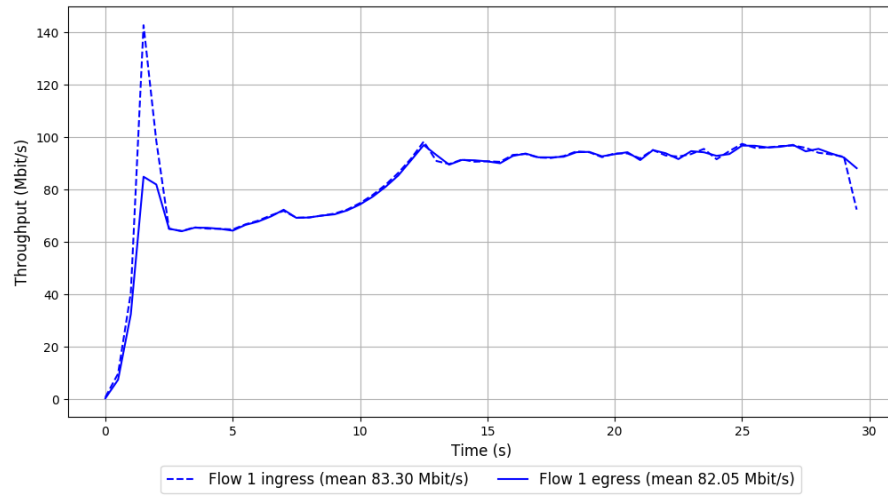


Run 3: Statistics of PCC

Start at: 2018-01-09 15:27:18
End at: 2018-01-09 15:27:48
Local clock offset: 1.252 ms
Remote clock offset: -2.844 ms

Below is generated by plot.py at 2018-01-09 23:16:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.05 Mbit/s
95th percentile per-packet one-way delay: 86.876 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 82.05 Mbit/s
95th percentile per-packet one-way delay: 86.876 ms
Loss rate: 1.50%

Run 3: Report of PCC — Data Link

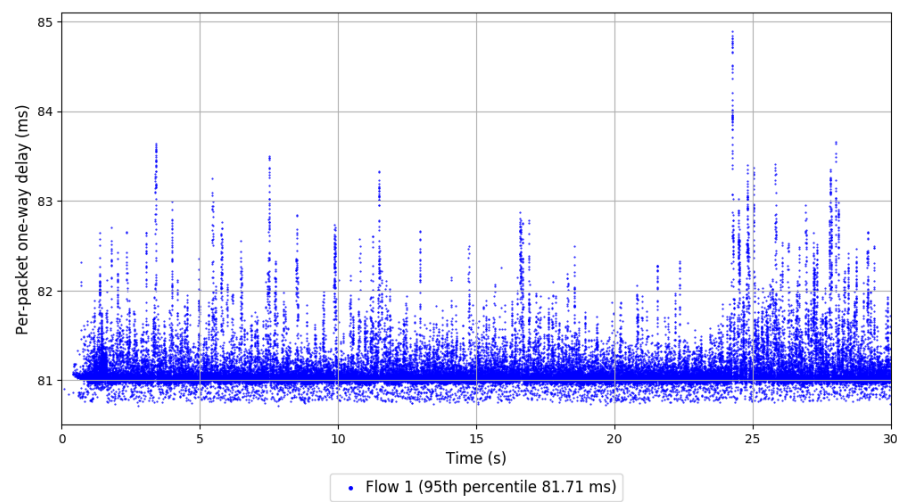
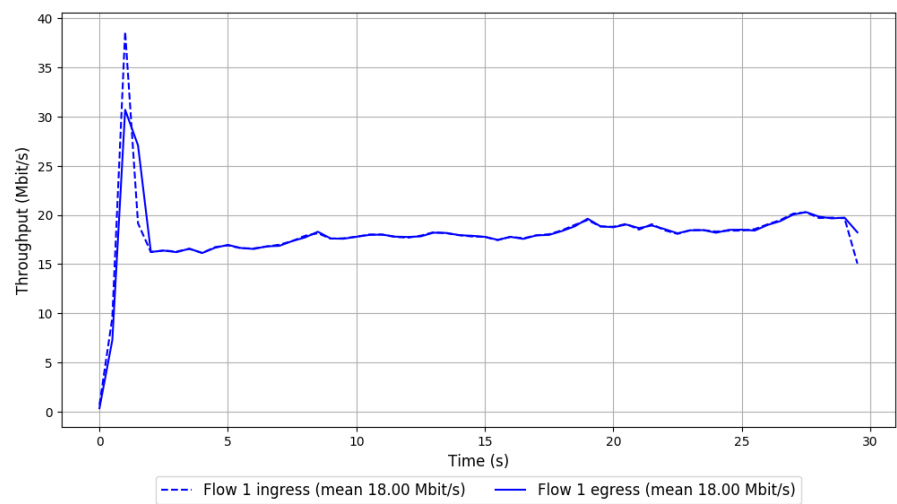


Run 4: Statistics of PCC

Start at: 2018-01-09 16:48:15
End at: 2018-01-09 16:48:45
Local clock offset: 1.885 ms
Remote clock offset: -5.195 ms

Below is generated by plot.py at 2018-01-09 23:16:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 18.00 Mbit/s
95th percentile per-packet one-way delay: 81.713 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 18.00 Mbit/s
95th percentile per-packet one-way delay: 81.713 ms
Loss rate: 0.00%

Run 4: Report of PCC — Data Link

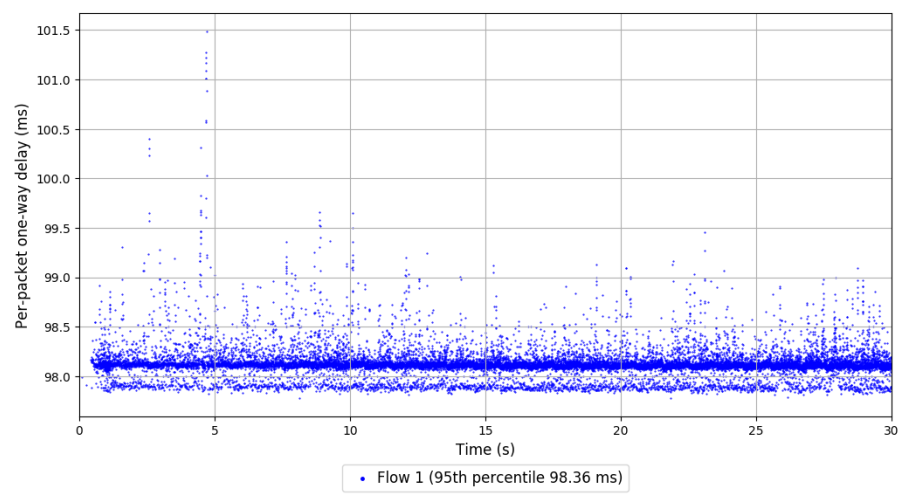
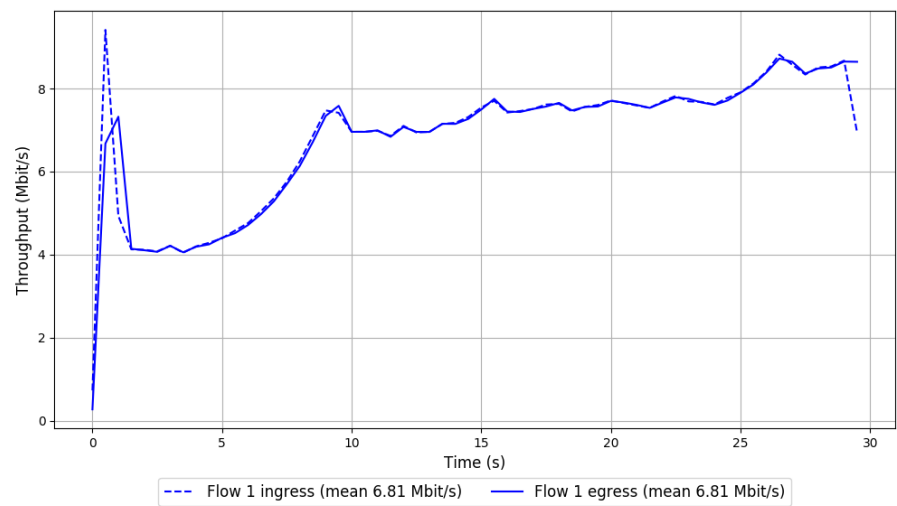


Run 5: Statistics of PCC

Start at: 2018-01-09 18:09:35
End at: 2018-01-09 18:10:05
Local clock offset: 1.906 ms
Remote clock offset: 12.149 ms

Below is generated by plot.py at 2018-01-09 23:16:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 98.359 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 98.359 ms
Loss rate: 0.00%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-09 19:24:43

End at: 2018-01-09 19:25:13

Local clock offset: 0.509 ms

Remote clock offset: 2.905 ms

Below is generated by plot.py at 2018-01-09 23:16:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.14 Mbit/s

95th percentile per-packet one-way delay: 96.006 ms

Loss rate: 0.06%

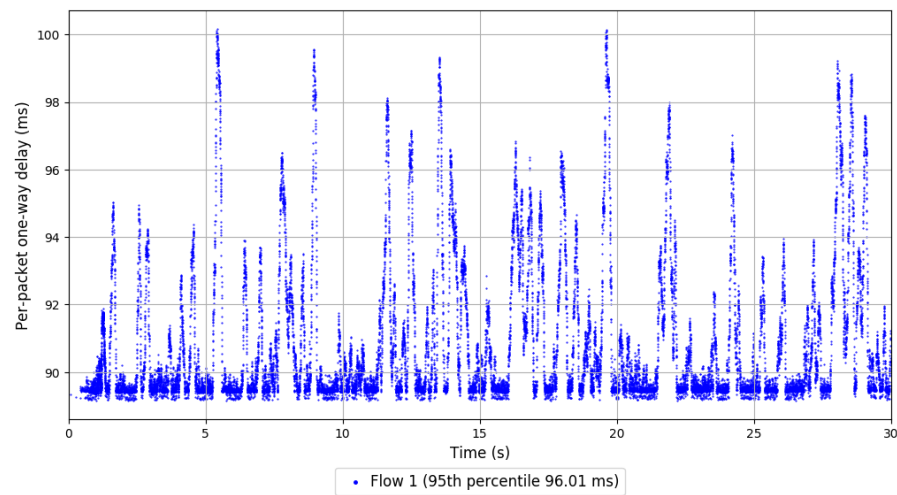
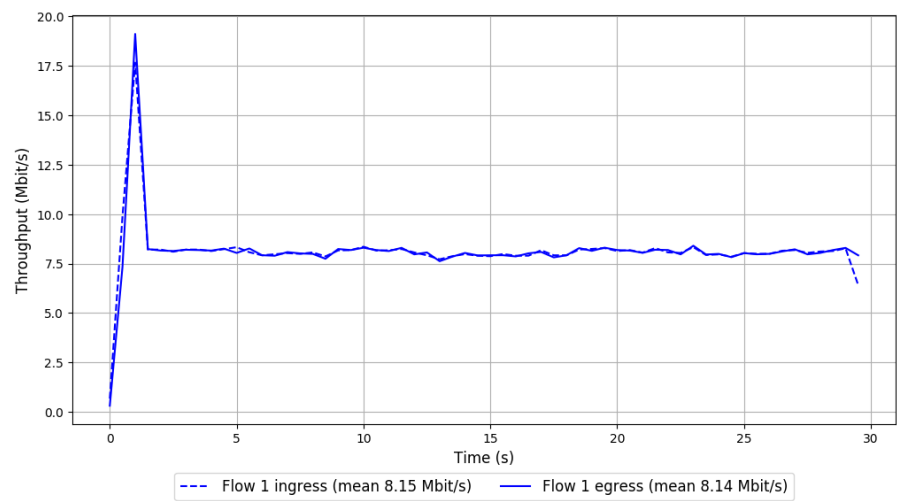
-- Flow 1:

Average throughput: 8.14 Mbit/s

95th percentile per-packet one-way delay: 96.006 ms

Loss rate: 0.06%

Run 6: Report of PCC — Data Link

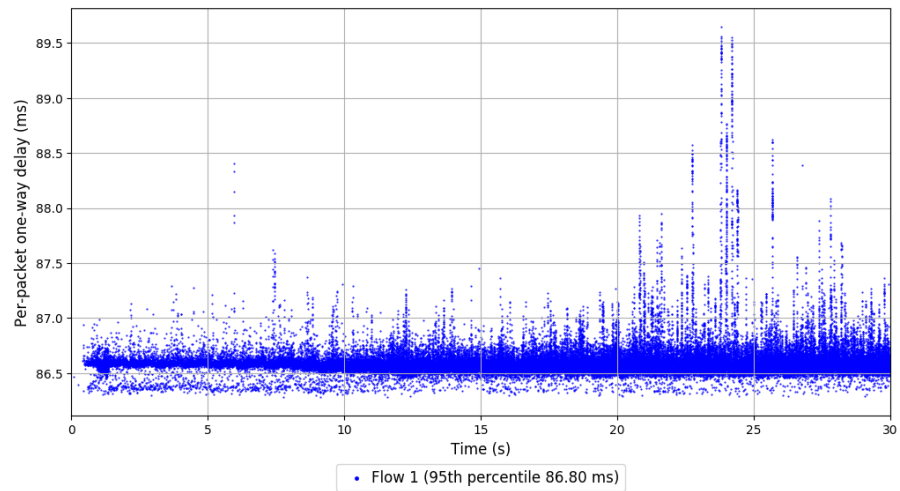
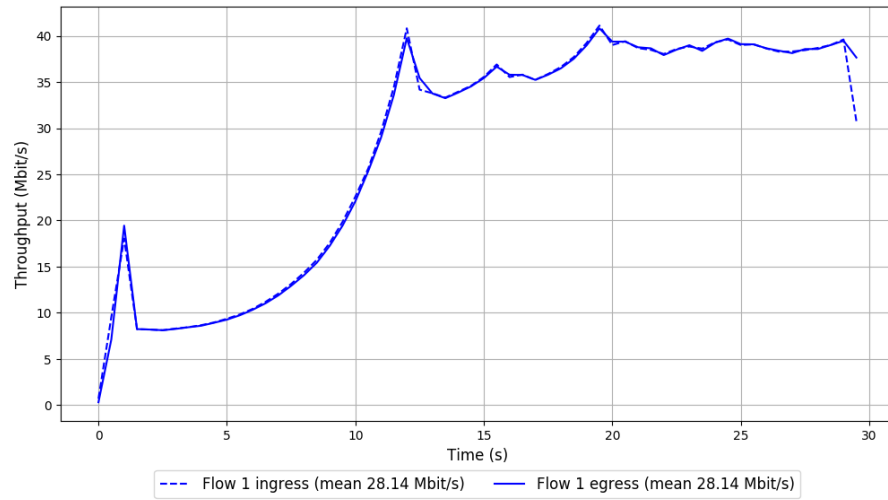


Run 7: Statistics of PCC

Start at: 2018-01-09 20:45:43
End at: 2018-01-09 20:46:13
Local clock offset: 0.408 ms
Remote clock offset: -0.079 ms

Below is generated by plot.py at 2018-01-09 23:16:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 28.14 Mbit/s
95th percentile per-packet one-way delay: 86.799 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.14 Mbit/s
95th percentile per-packet one-way delay: 86.799 ms
Loss rate: 0.00%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-09 22:05:32

End at: 2018-01-09 22:06:02

Local clock offset: 0.738 ms

Remote clock offset: 1.71 ms

Below is generated by plot.py at 2018-01-09 23:16:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.75 Mbit/s

95th percentile per-packet one-way delay: 86.961 ms

Loss rate: 1.72%

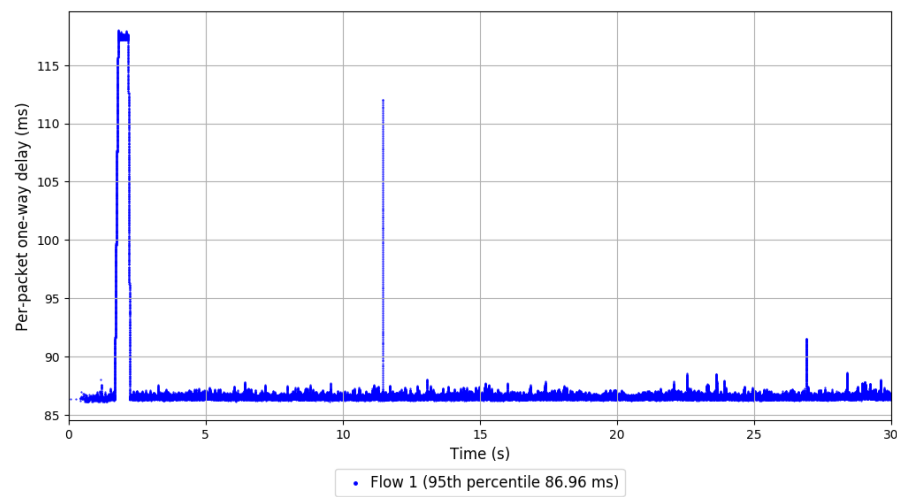
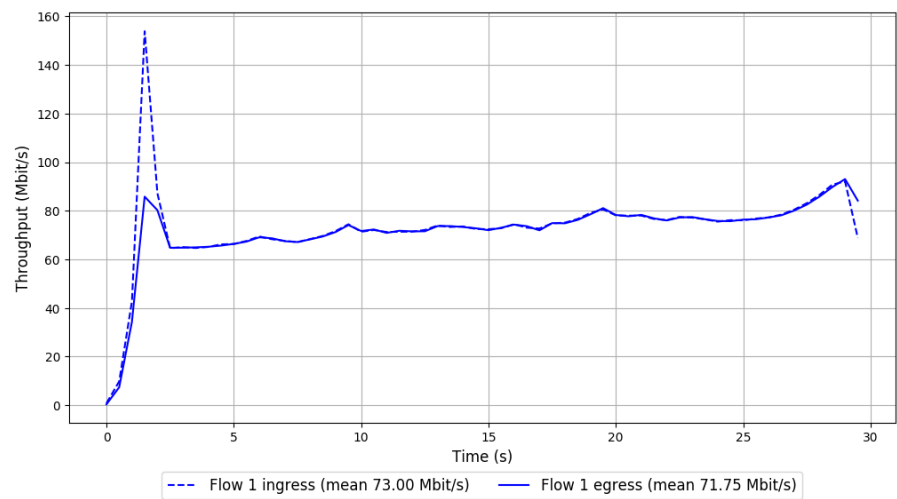
-- Flow 1:

Average throughput: 71.75 Mbit/s

95th percentile per-packet one-way delay: 86.961 ms

Loss rate: 1.72%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

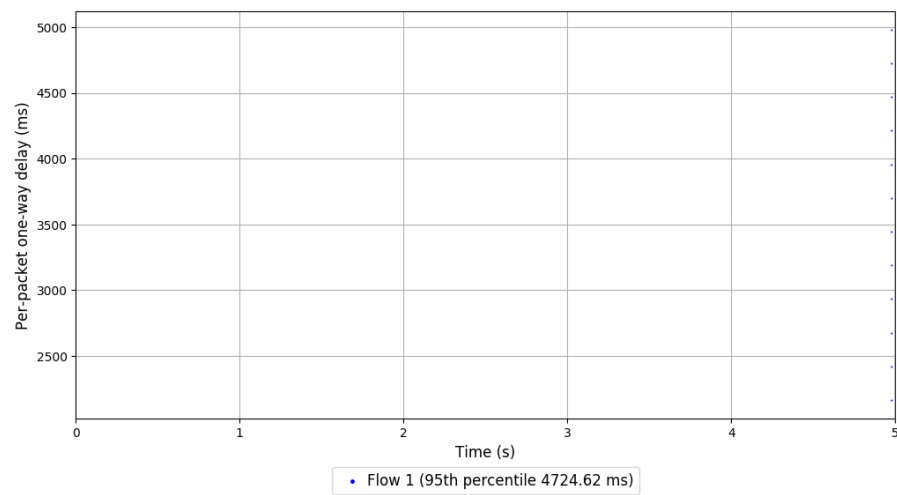
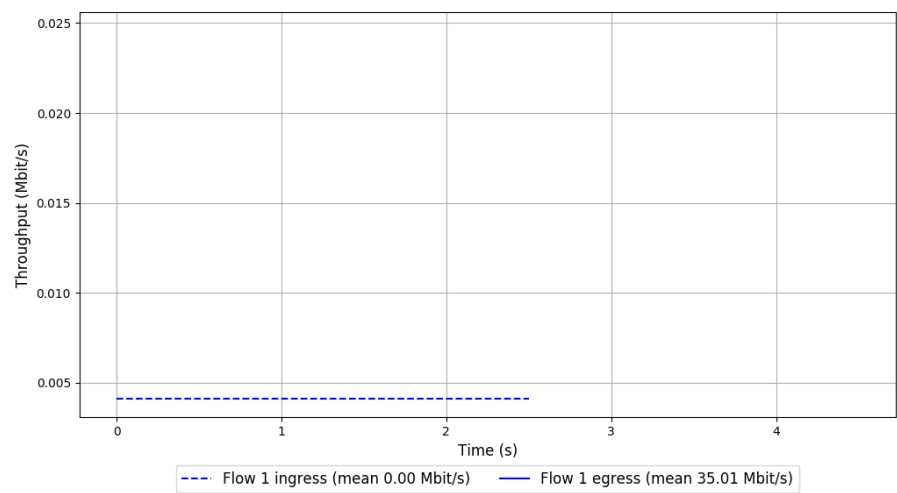
Start at: 2018-01-09 22:41:47

End at: 2018-01-09 22:42:17

Local clock offset: 0.715 ms

Remote clock offset: -2.989 ms

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

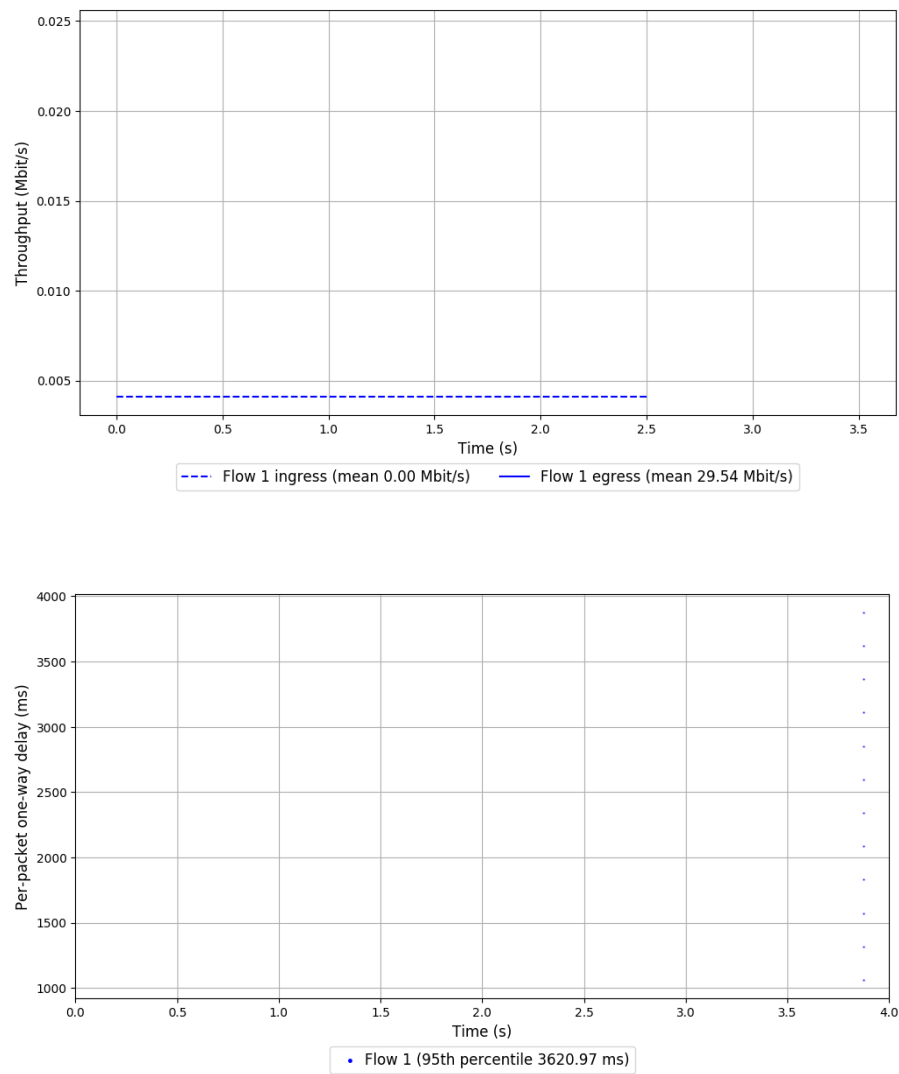
Start at: 2018-01-09 22:59:58

End at: 2018-01-09 23:00:28

Local clock offset: 0.543 ms

Remote clock offset: -2.88 ms

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

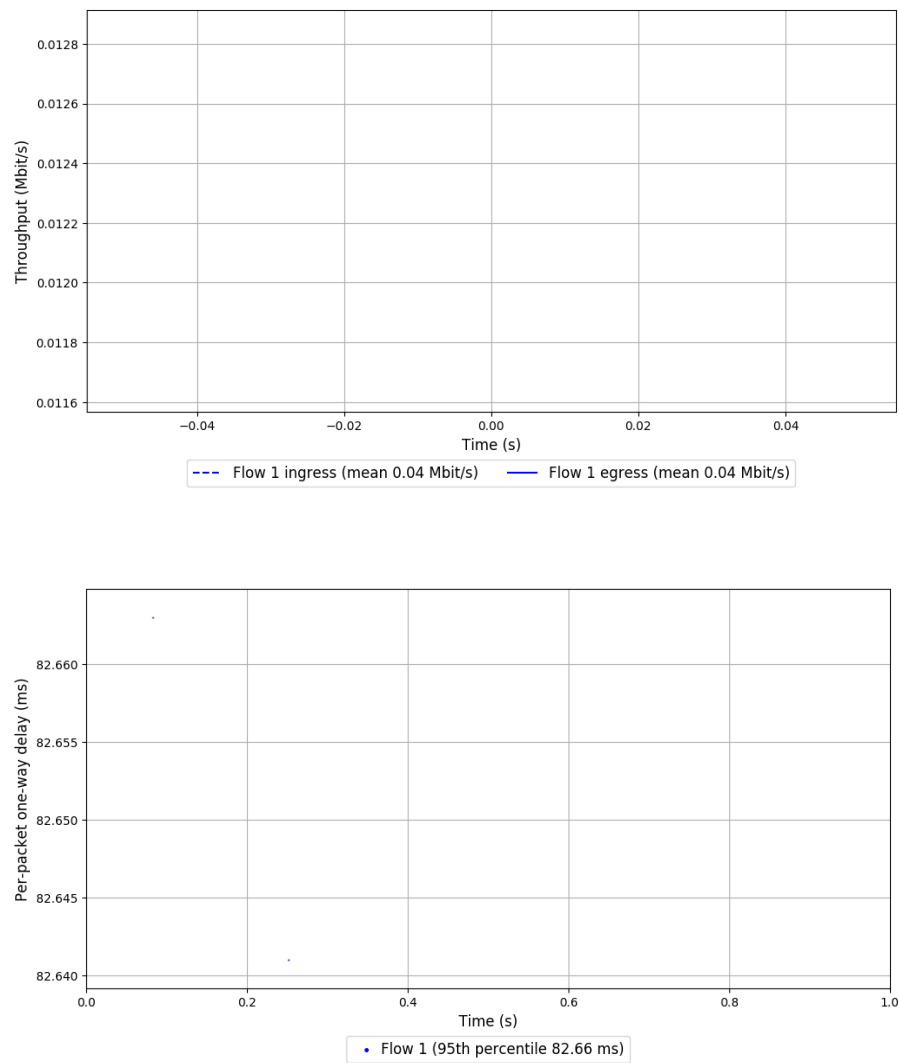
Start at: 2018-01-09 08:09:15

End at: 2018-01-09 08:09:45

Local clock offset: -1.253 ms

Remote clock offset: -5.664 ms

Run 1: Report of QUIC Cubic — Data Link

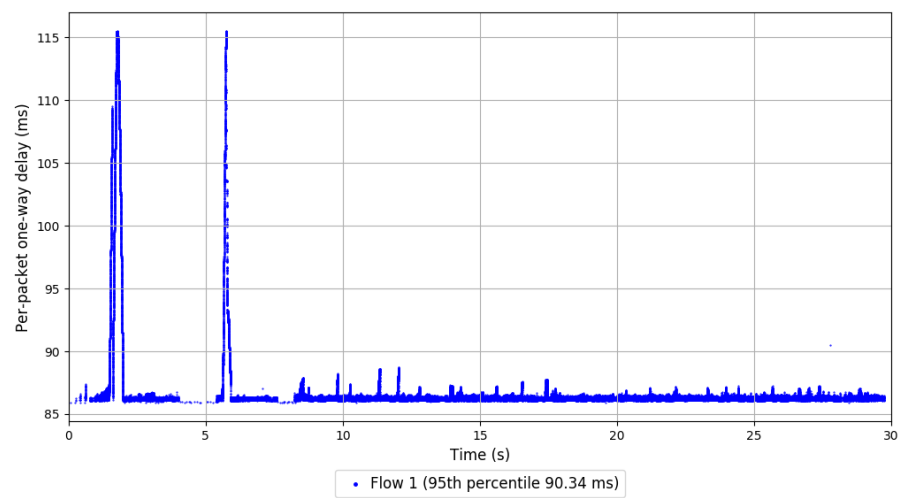
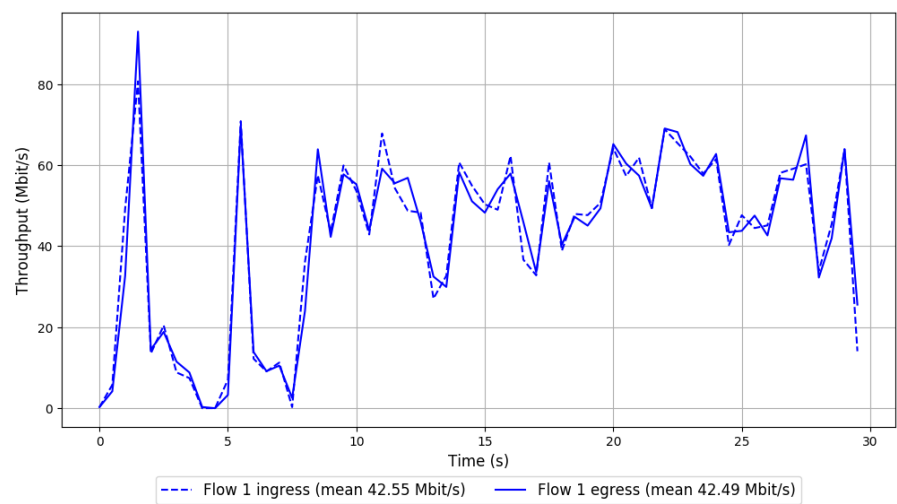


Run 2: Statistics of QUIC Cubic

Start at: 2018-01-09 10:48:25
End at: 2018-01-09 10:48:55
Local clock offset: -1.627 ms
Remote clock offset: -0.373 ms

Below is generated by plot.py at 2018-01-09 23:16:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 42.49 Mbit/s
95th percentile per-packet one-way delay: 90.337 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 42.49 Mbit/s
95th percentile per-packet one-way delay: 90.337 ms
Loss rate: 0.15%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-09 13:56:58

End at: 2018-01-09 13:57:28

Local clock offset: 0.78 ms

Remote clock offset: 1.433 ms

Below is generated by plot.py at 2018-01-09 23:16:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.41 Mbit/s

95th percentile per-packet one-way delay: 92.419 ms

Loss rate: 0.20%

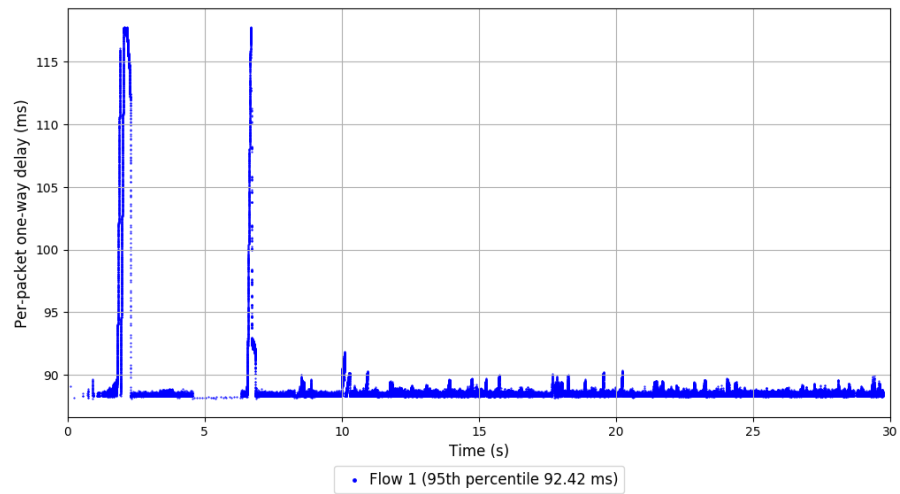
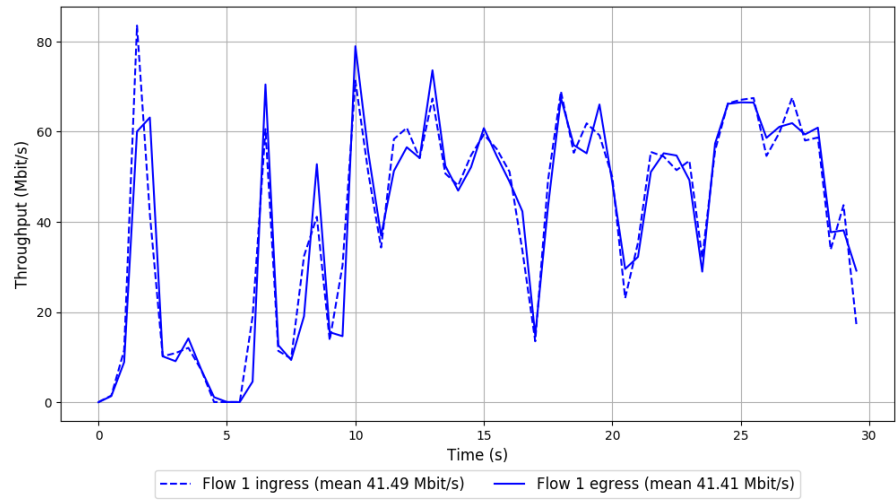
-- Flow 1:

Average throughput: 41.41 Mbit/s

95th percentile per-packet one-way delay: 92.419 ms

Loss rate: 0.20%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-09 15:43:14

End at: 2018-01-09 15:43:44

Local clock offset: 1.201 ms

Remote clock offset: -5.808 ms

Below is generated by plot.py at 2018-01-09 23:16:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.01 Mbit/s

95th percentile per-packet one-way delay: 87.866 ms

Loss rate: 0.18%

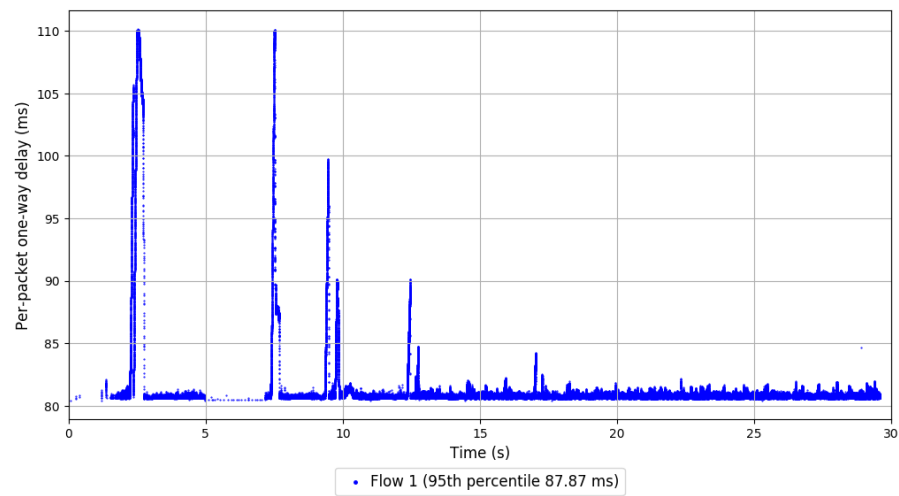
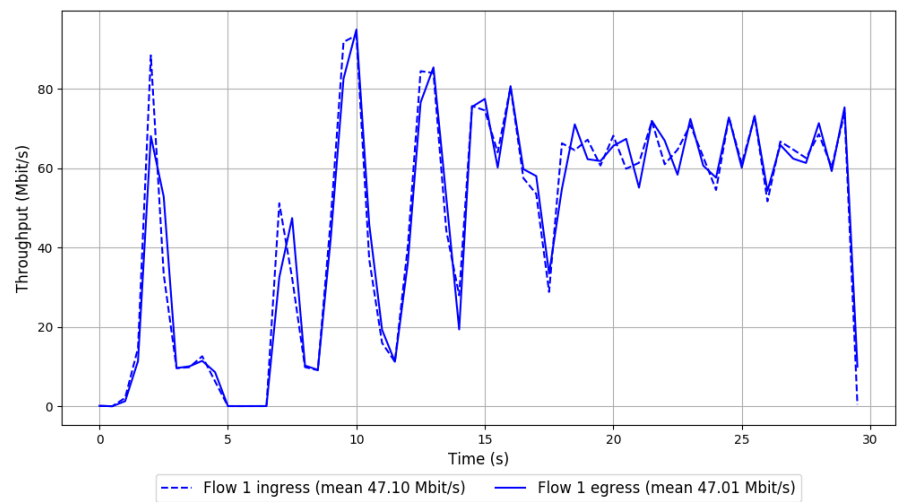
-- Flow 1:

Average throughput: 47.01 Mbit/s

95th percentile per-packet one-way delay: 87.866 ms

Loss rate: 0.18%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-09 17:08:46

End at: 2018-01-09 17:09:16

Local clock offset: 2.077 ms

Remote clock offset: 1.658 ms

Below is generated by plot.py at 2018-01-09 23:16:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.99 Mbit/s

95th percentile per-packet one-way delay: 89.649 ms

Loss rate: 0.00%

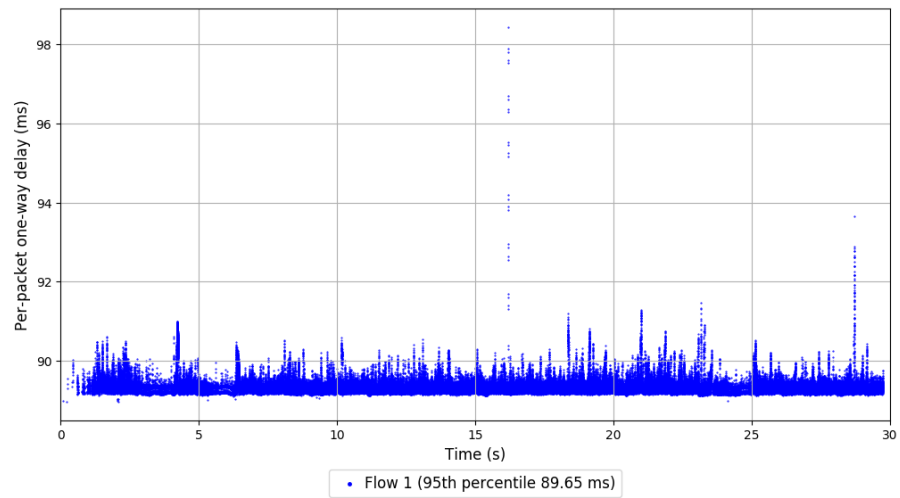
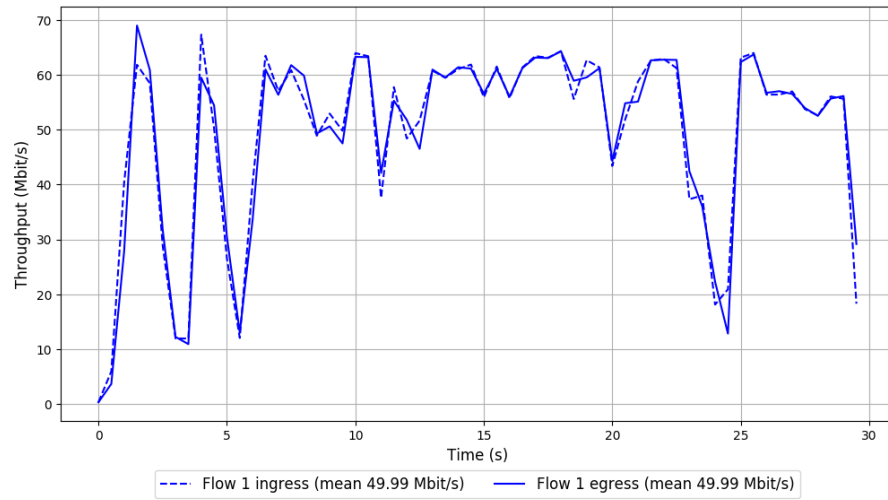
-- Flow 1:

Average throughput: 49.99 Mbit/s

95th percentile per-packet one-way delay: 89.649 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-09 18:24:59

End at: 2018-01-09 18:25:29

Local clock offset: 1.537 ms

Remote clock offset: 11.463 ms

Below is generated by plot.py at 2018-01-09 23:16:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.89 Mbit/s

95th percentile per-packet one-way delay: 96.855 ms

Loss rate: 0.00%

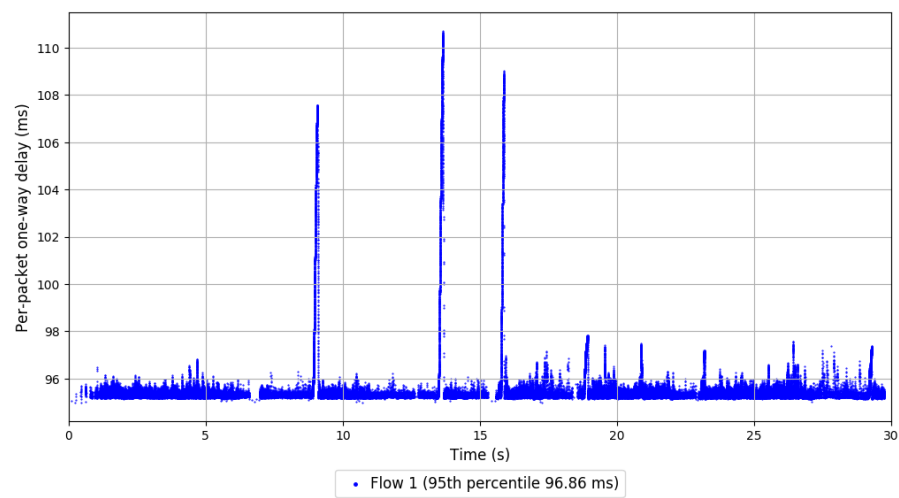
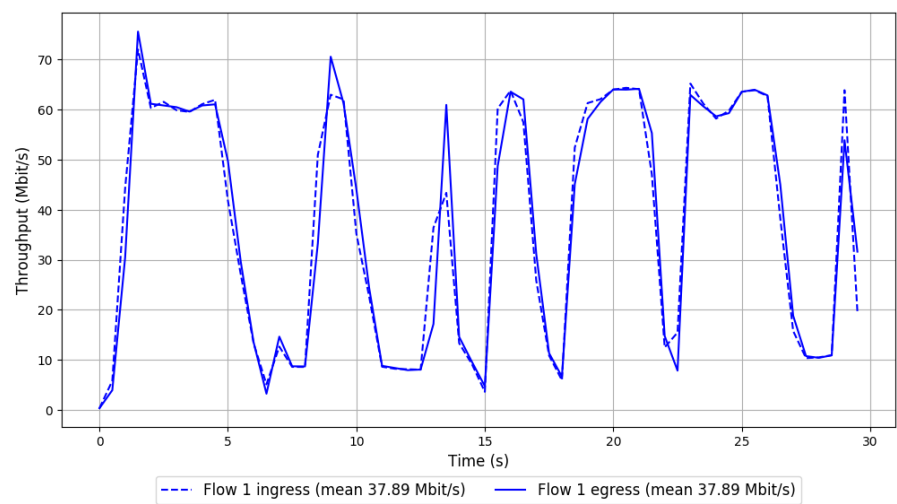
-- Flow 1:

Average throughput: 37.89 Mbit/s

95th percentile per-packet one-way delay: 96.855 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-09 19:42:42

End at: 2018-01-09 19:43:12

Local clock offset: 0.317 ms

Remote clock offset: 2.085 ms

Below is generated by plot.py at 2018-01-09 23:16:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.80 Mbit/s

95th percentile per-packet one-way delay: 104.592 ms

Loss rate: 0.44%

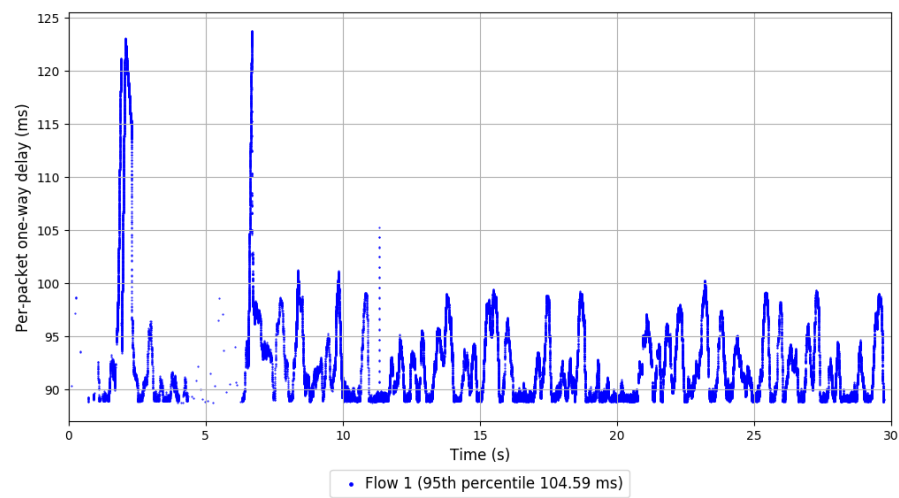
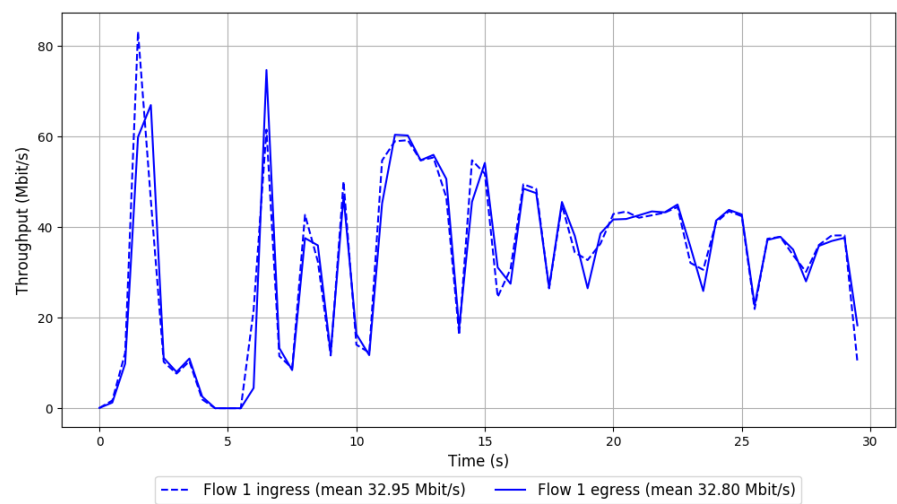
-- Flow 1:

Average throughput: 32.80 Mbit/s

95th percentile per-packet one-way delay: 104.592 ms

Loss rate: 0.44%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-09 21:03:04

End at: 2018-01-09 21:03:34

Local clock offset: 0.565 ms

Remote clock offset: 0.311 ms

Below is generated by plot.py at 2018-01-09 23:17:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.68 Mbit/s

95th percentile per-packet one-way delay: 92.174 ms

Loss rate: 0.18%

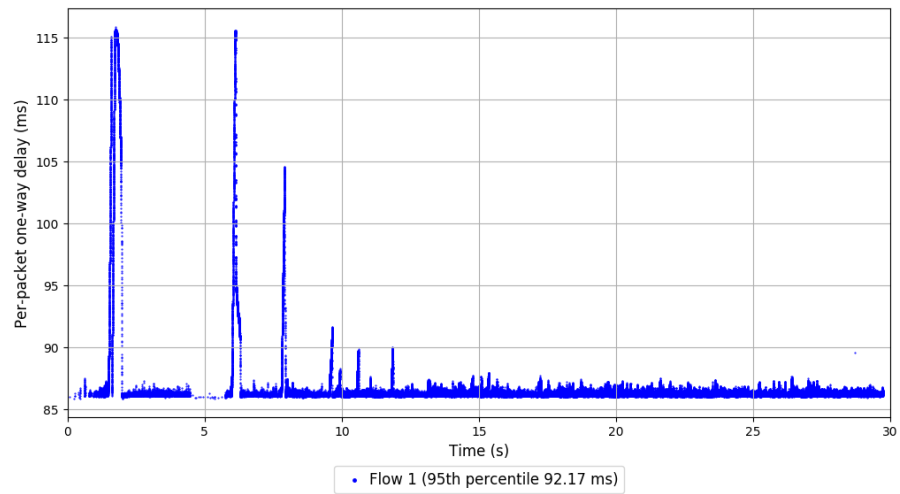
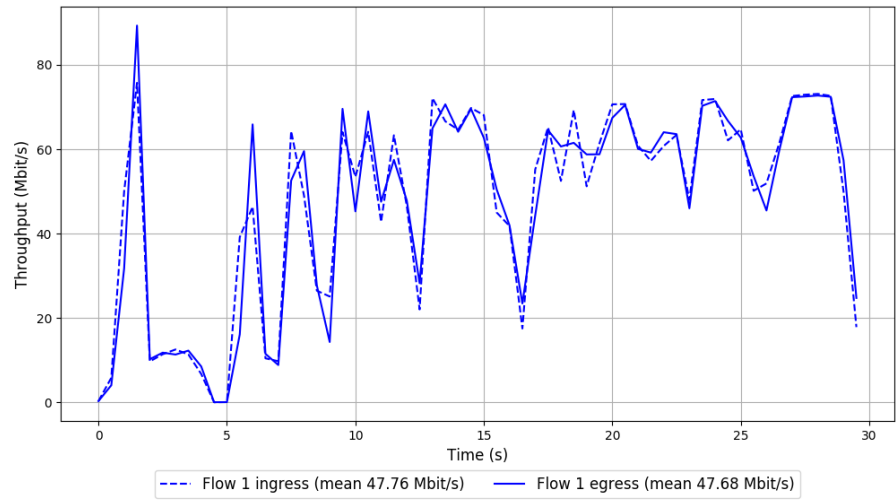
-- Flow 1:

Average throughput: 47.68 Mbit/s

95th percentile per-packet one-way delay: 92.174 ms

Loss rate: 0.18%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-09 22:27:11

End at: 2018-01-09 22:27:41

Local clock offset: 0.808 ms

Remote clock offset: -2.7 ms

Below is generated by plot.py at 2018-01-09 23:17:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.60 Mbit/s

95th percentile per-packet one-way delay: 86.898 ms

Loss rate: 0.16%

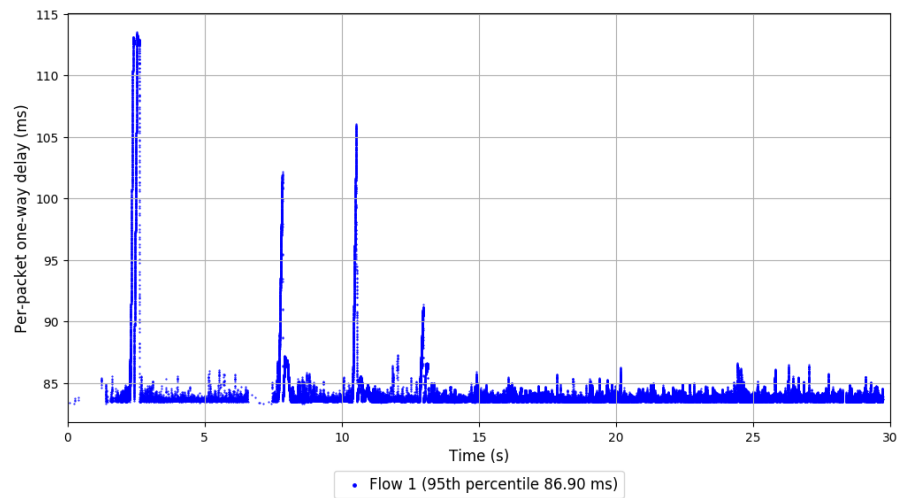
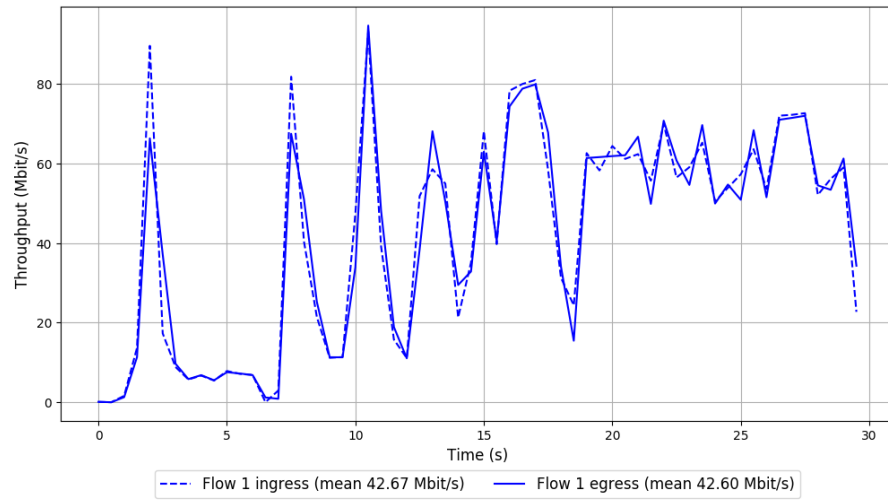
-- Flow 1:

Average throughput: 42.60 Mbit/s

95th percentile per-packet one-way delay: 86.898 ms

Loss rate: 0.16%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-01-09 22:46:32

End at: 2018-01-09 22:47:02

Local clock offset: 0.627 ms

Remote clock offset: 2.174 ms

Below is generated by plot.py at 2018-01-09 23:17:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.20 Mbit/s

95th percentile per-packet one-way delay: 110.971 ms

Loss rate: 0.21%

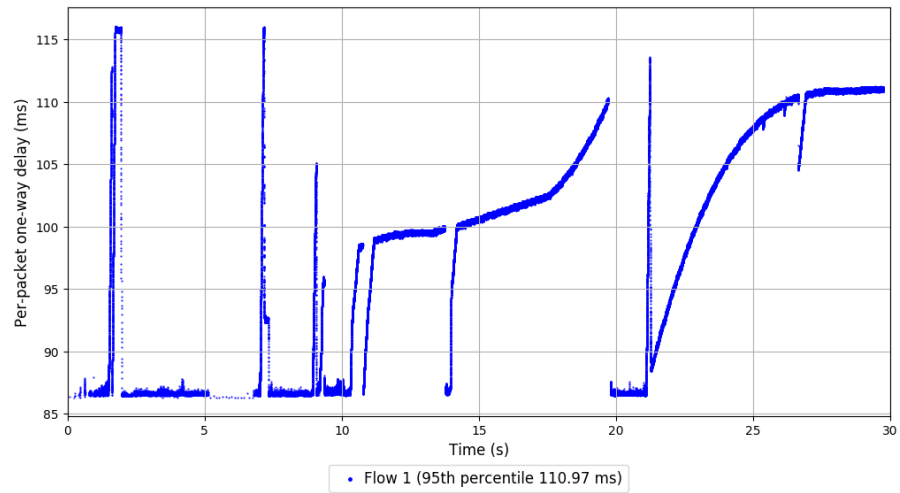
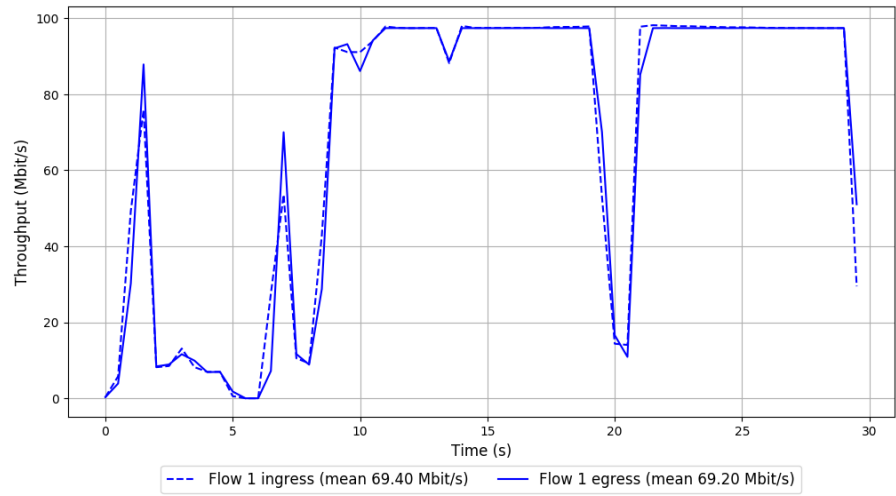
-- Flow 1:

Average throughput: 69.20 Mbit/s

95th percentile per-packet one-way delay: 110.971 ms

Loss rate: 0.21%

Run 10: Report of QUIC Cubic — Data Link

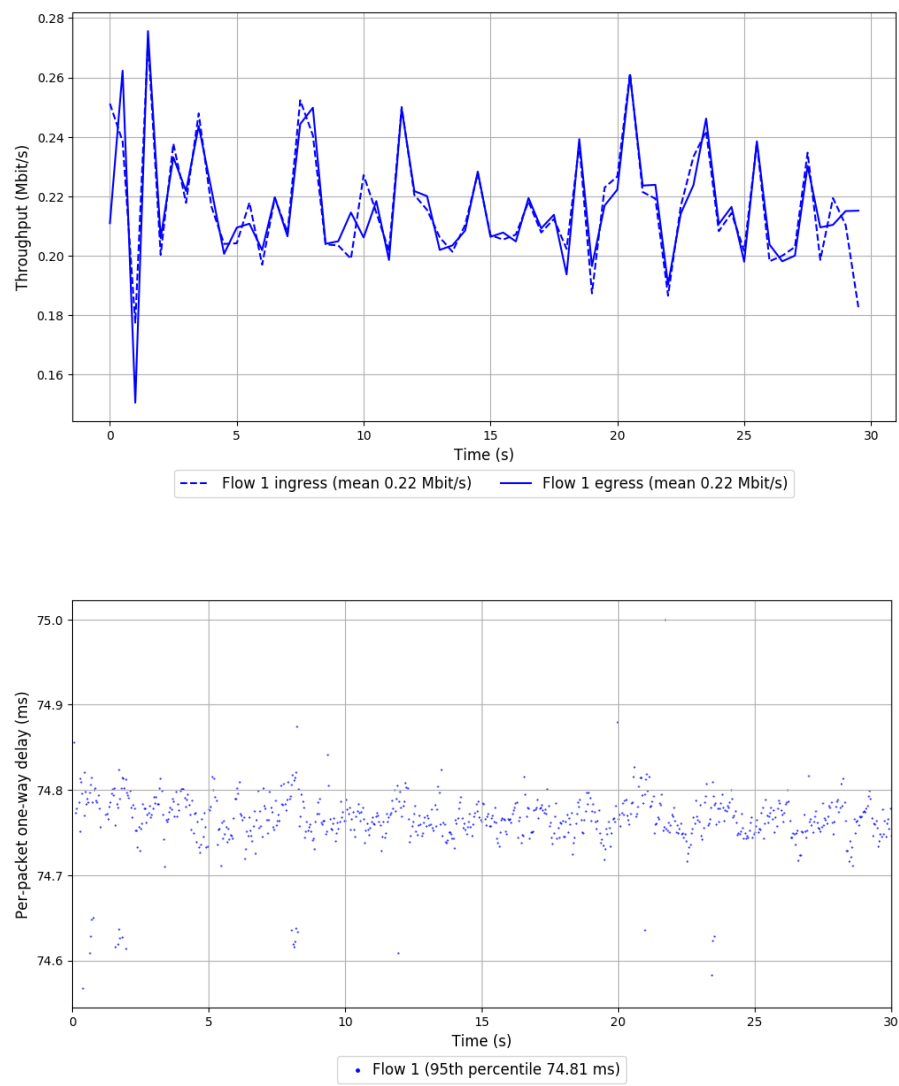


```
Run 1: Statistics of SCReAM

Start at: 2018-01-09 08:18:21
End at: 2018-01-09 08:18:51
Local clock offset: -1.666 ms
Remote clock offset: -13.174 ms

# Below is generated by plot.py at 2018-01-09 23:17:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 74.806 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 74.806 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

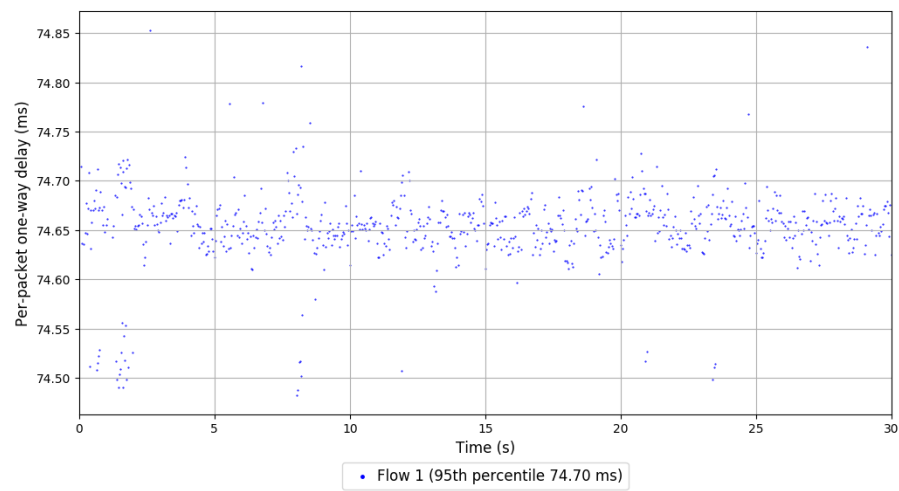
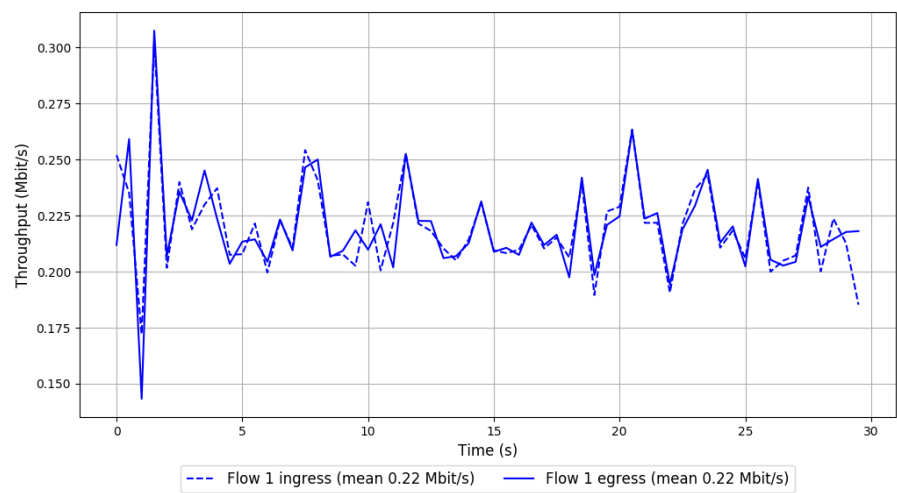


Run 2: Statistics of SCReAM

Start at: 2018-01-09 11:08:57
End at: 2018-01-09 11:09:27
Local clock offset: -1.476 ms
Remote clock offset: -13.469 ms

Below is generated by plot.py at 2018-01-09 23:17:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 74.700 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 74.700 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-09 14:17:43

End at: 2018-01-09 14:18:13

Local clock offset: 1.252 ms

Remote clock offset: 2.403 ms

Below is generated by plot.py at 2018-01-09 23:17:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.825 ms

Loss rate: 0.00%

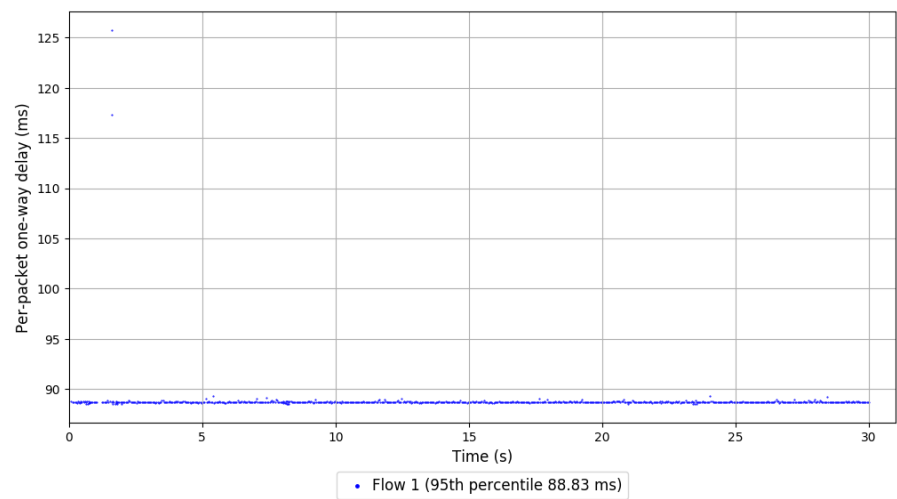
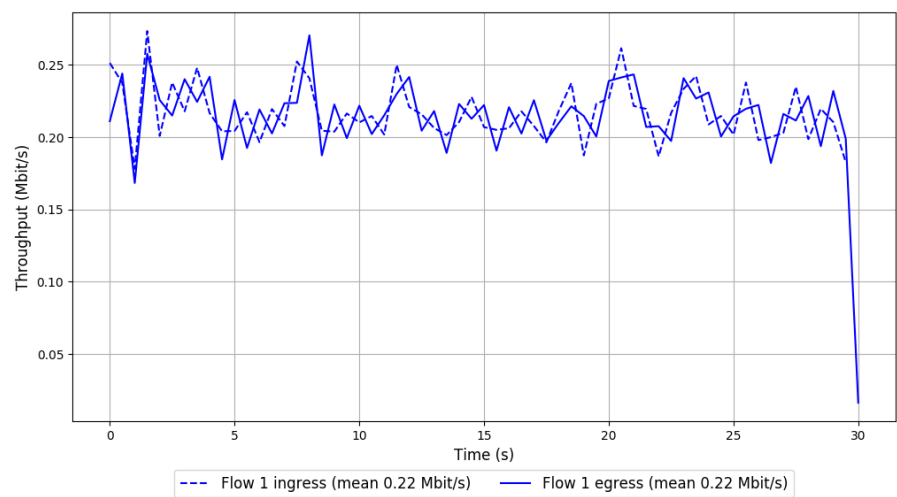
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.825 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

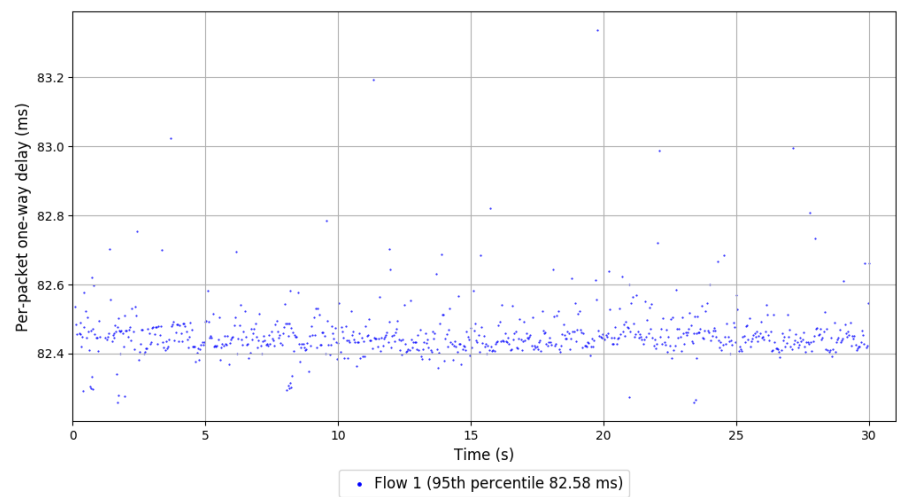
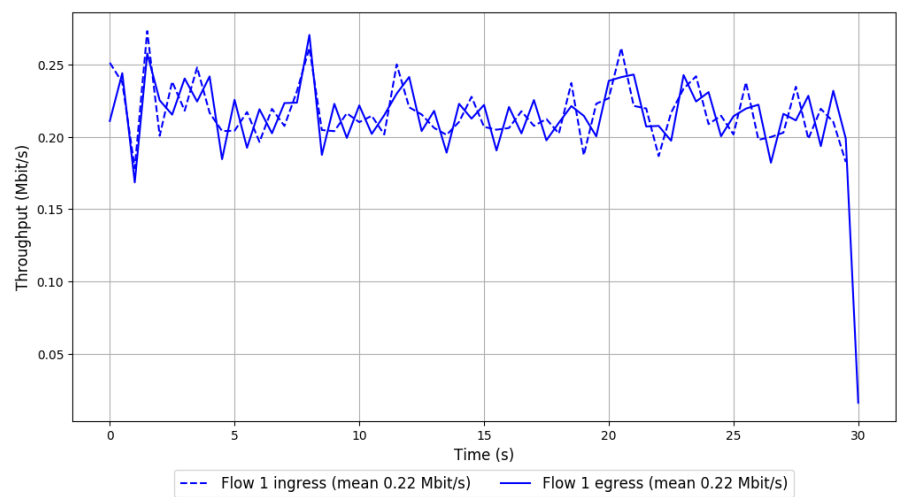


Run 4: Statistics of SCReAM

Start at: 2018-01-09 15:52:27
End at: 2018-01-09 15:52:57
Local clock offset: 1.199 ms
Remote clock offset: -5.636 ms

Below is generated by plot.py at 2018-01-09 23:17:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.575 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.575 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

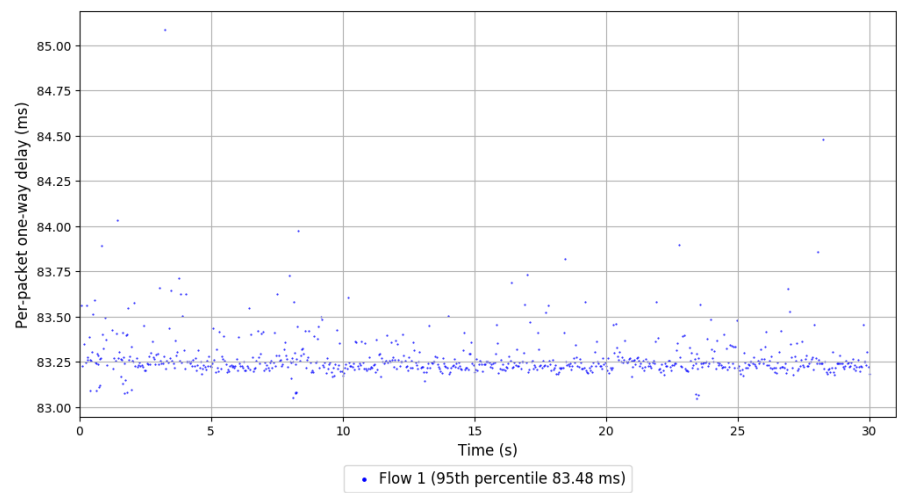
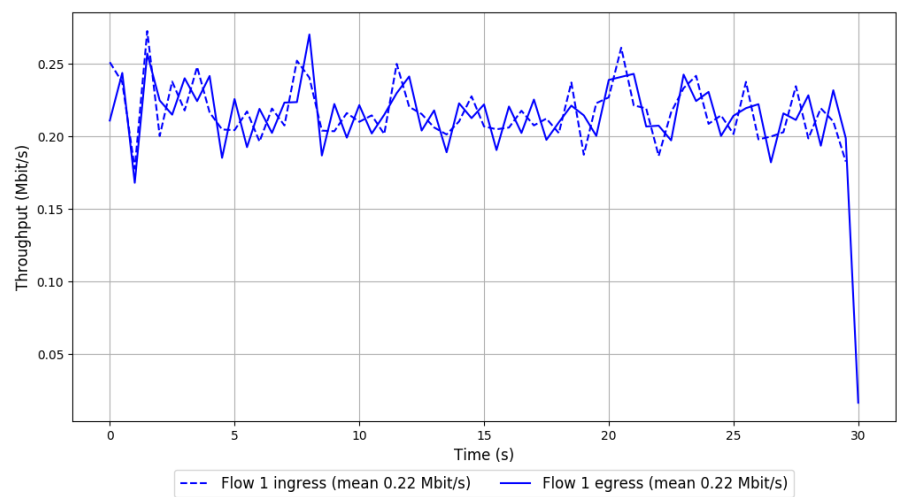


Run 5: Statistics of SCReAM

Start at: 2018-01-09 17:17:20
End at: 2018-01-09 17:17:50
Local clock offset: 2.099 ms
Remote clock offset: -4.339 ms

Below is generated by plot.py at 2018-01-09 23:17:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.485 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.485 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

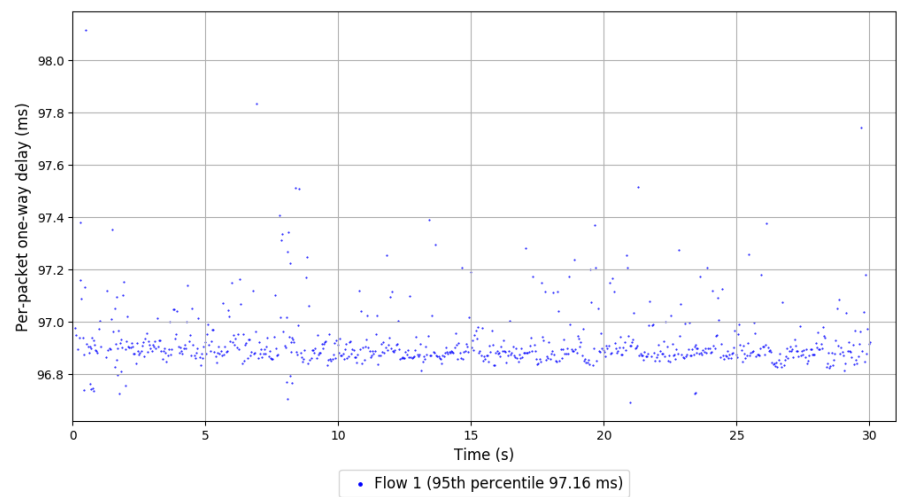
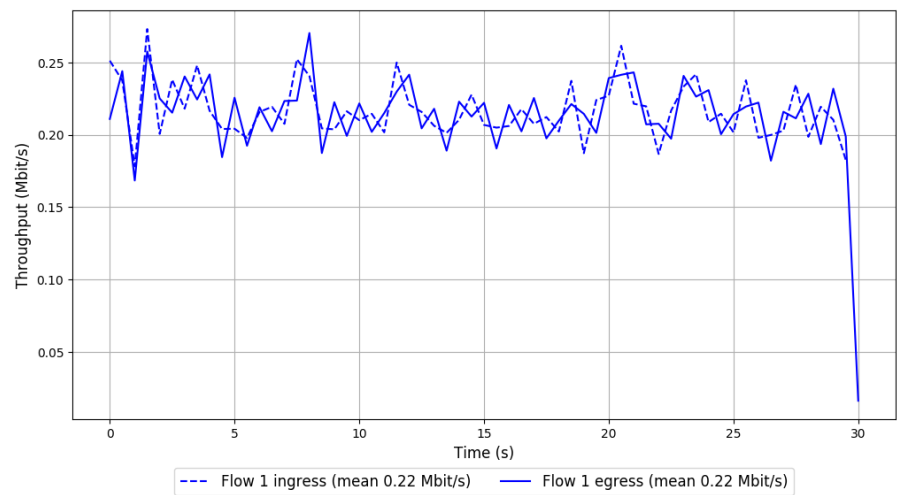


Run 6: Statistics of SCReAM

Start at: 2018-01-09 18:32:04
End at: 2018-01-09 18:32:34
Local clock offset: 1.348 ms
Remote clock offset: 10.623 ms

Below is generated by plot.py at 2018-01-09 23:17:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 97.162 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 97.162 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-01-09 19:51:45

End at: 2018-01-09 19:52:15

Local clock offset: 0.213 ms

Remote clock offset: 0.171 ms

Below is generated by plot.py at 2018-01-09 23:17:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.591 ms

Loss rate: 0.00%

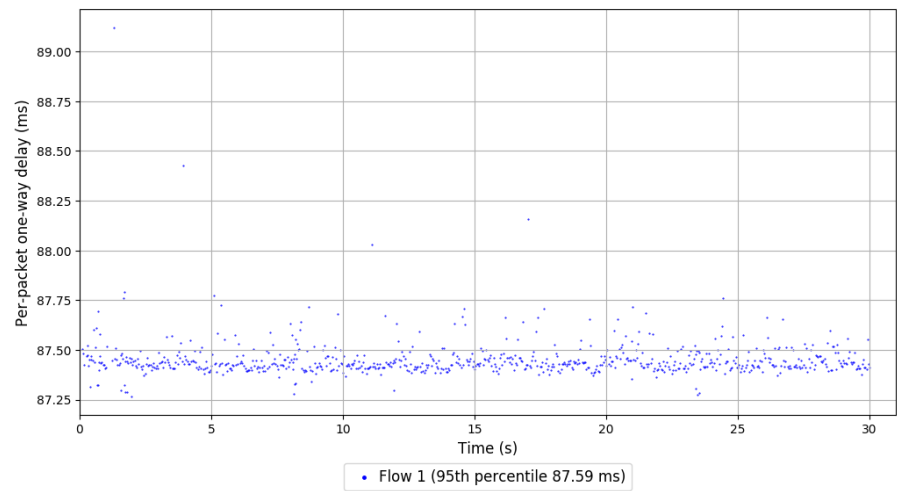
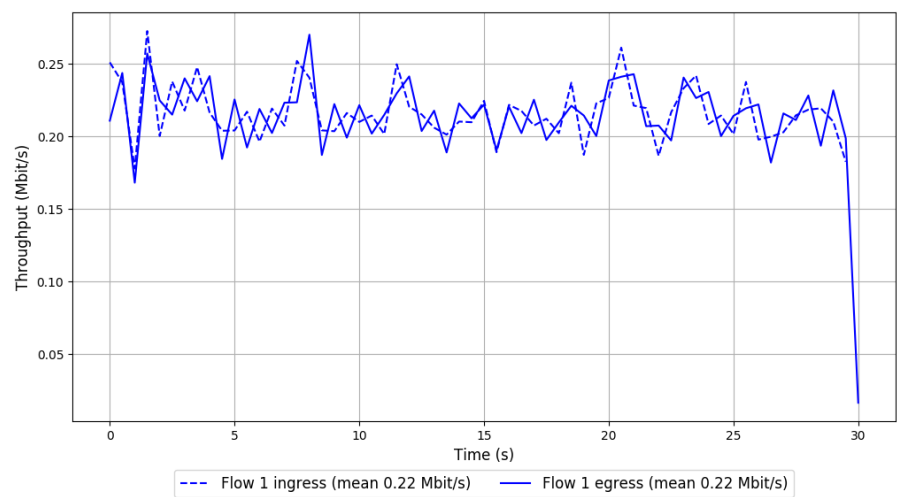
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.591 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-09 21:09:35

End at: 2018-01-09 21:10:06

Local clock offset: 0.775 ms

Remote clock offset: 1.724 ms

Below is generated by plot.py at 2018-01-09 23:17:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.317 ms

Loss rate: 0.00%

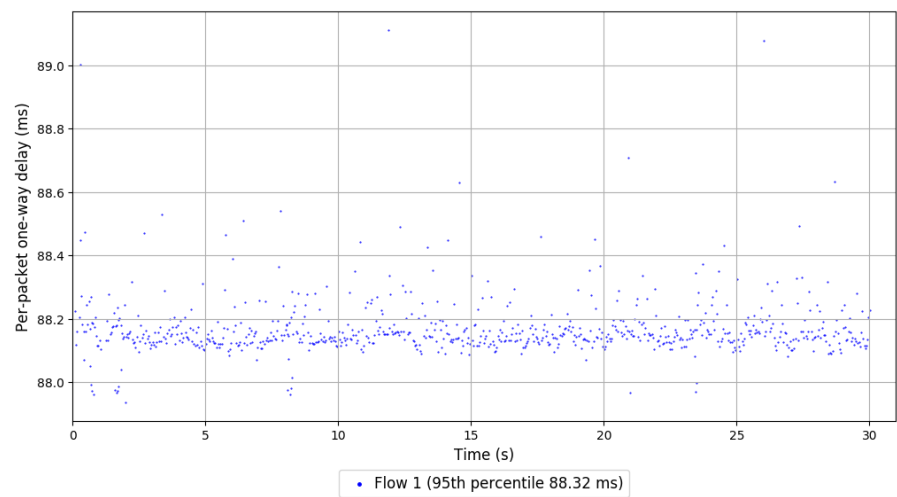
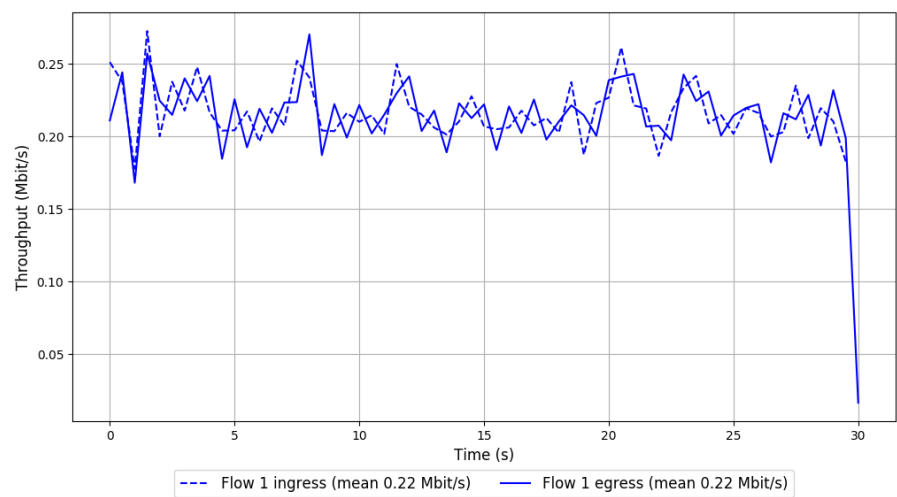
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.317 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

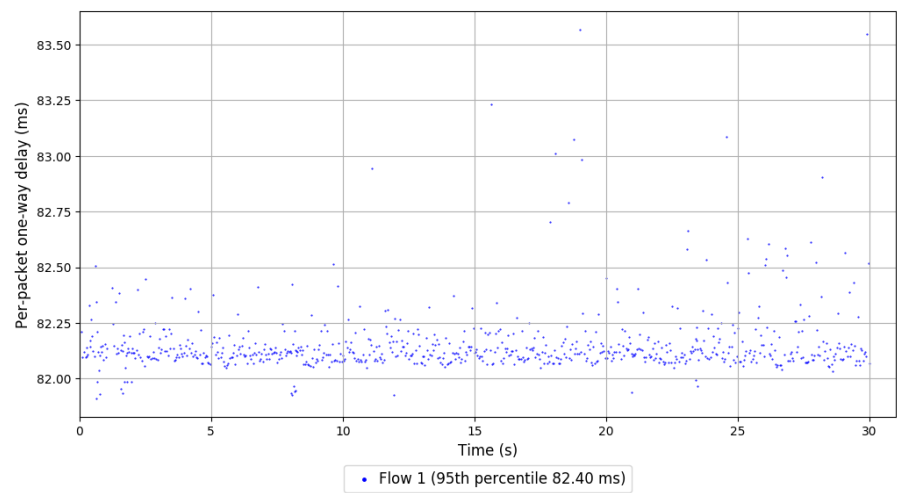
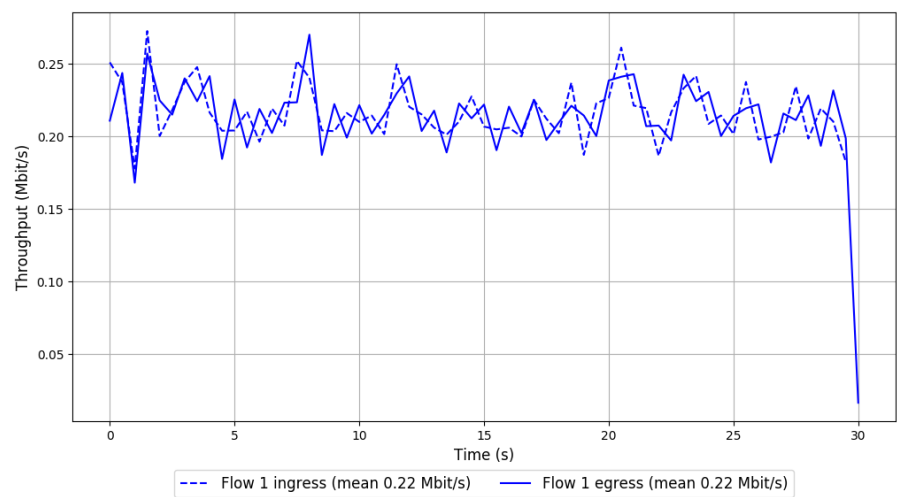


Run 9: Statistics of SCReAM

Start at: 2018-01-09 22:30:44
End at: 2018-01-09 22:31:14
Local clock offset: 0.78 ms
Remote clock offset: -3.563 ms

Below is generated by plot.py at 2018-01-09 23:17:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.403 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.403 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

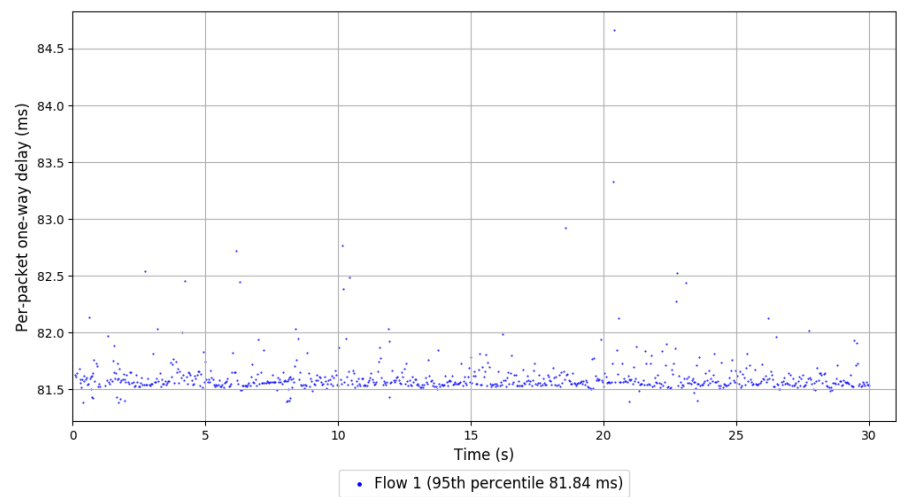
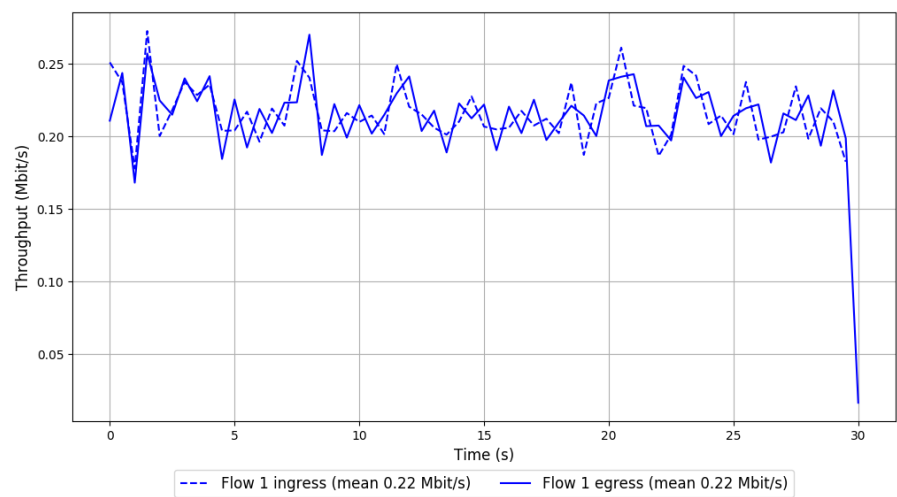


Run 10: Statistics of SReAM

Start at: 2018-01-09 22:48:58
End at: 2018-01-09 22:49:28
Local clock offset: 0.683 ms
Remote clock offset: -2.593 ms

Below is generated by plot.py at 2018-01-09 23:17:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.845 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.845 ms
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

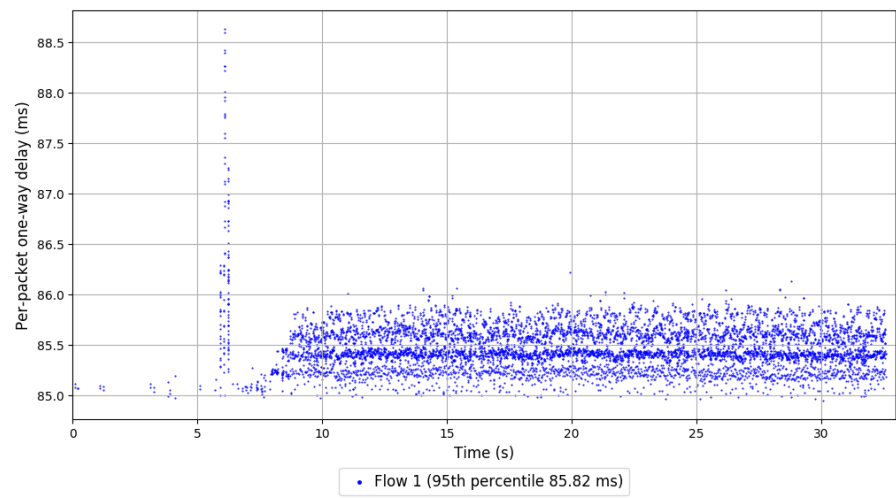
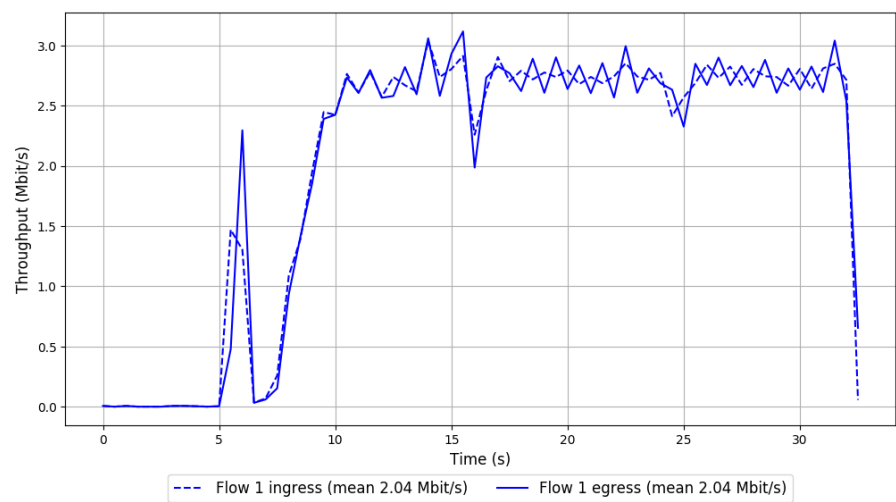


Run 1: Statistics of WebRTC media

Start at: 2018-01-09 08:07:49
End at: 2018-01-09 08:08:19
Local clock offset: -1.295 ms
Remote clock offset: -0.741 ms

Below is generated by plot.py at 2018-01-09 23:17:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 85.824 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 85.824 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

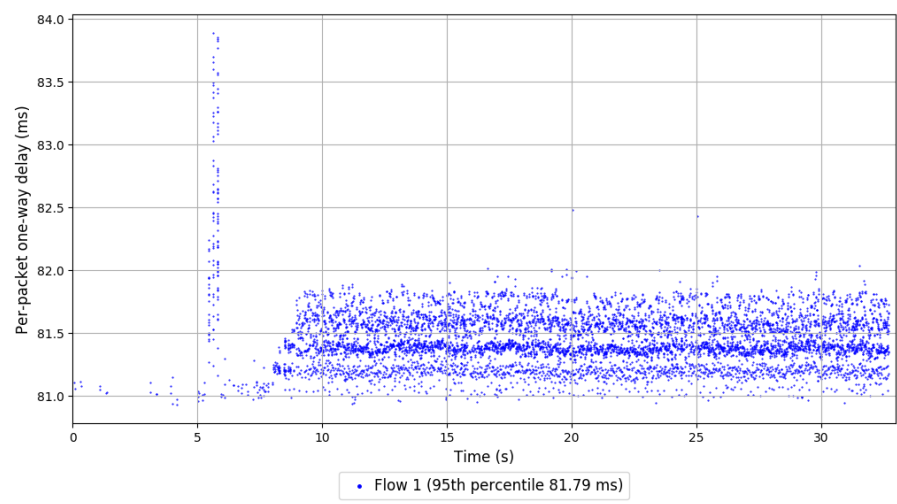
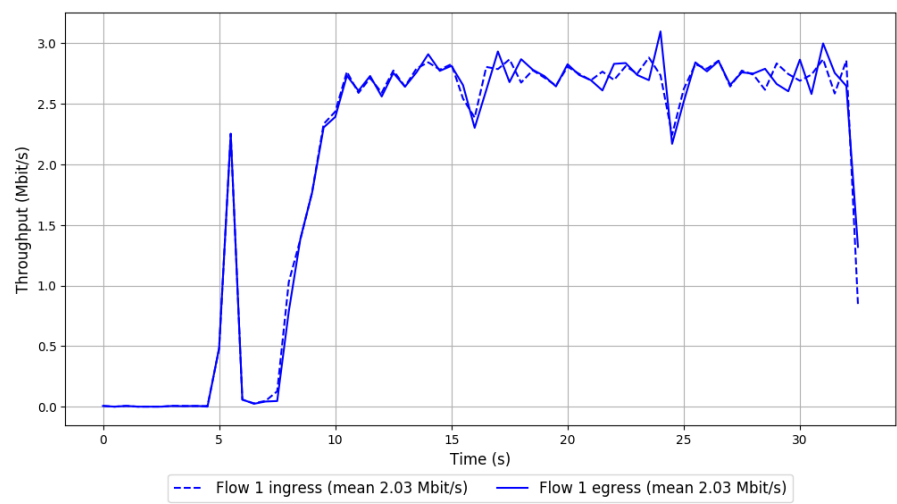


Run 2: Statistics of WebRTC media

Start at: 2018-01-09 10:46:46
End at: 2018-01-09 10:47:16
Local clock offset: -1.626 ms
Remote clock offset: -5.301 ms

Below is generated by plot.py at 2018-01-09 23:17:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 81.790 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 81.790 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

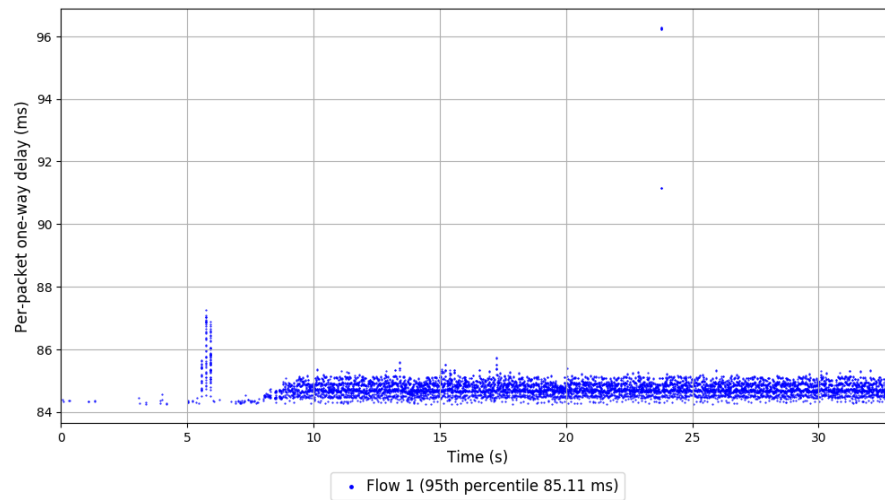
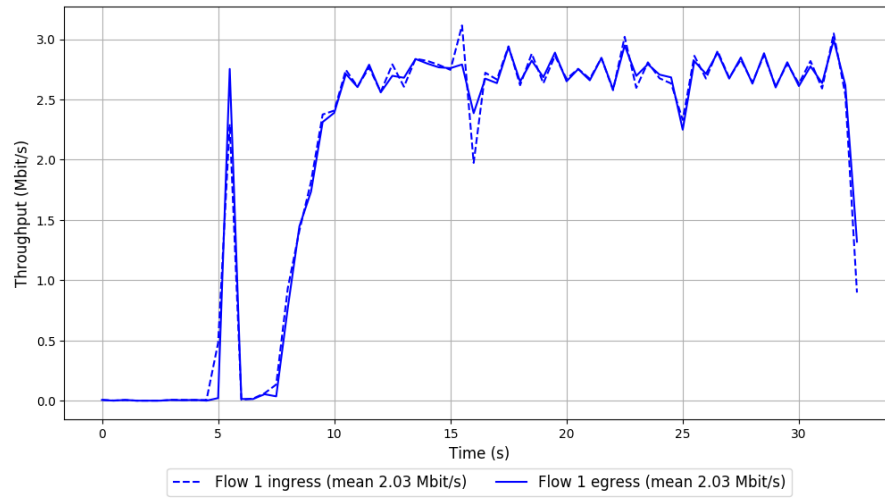


Run 3: Statistics of WebRTC media

Start at: 2018-01-09 13:55:24
End at: 2018-01-09 13:55:54
Local clock offset: 0.759 ms
Remote clock offset: -3.405 ms

Below is generated by plot.py at 2018-01-09 23:17:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 85.110 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 85.110 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-09 15:41:57

End at: 2018-01-09 15:42:27

Local clock offset: 1.222 ms

Remote clock offset: -0.09 ms

Below is generated by plot.py at 2018-01-09 23:17:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 89.369 ms

Loss rate: 0.00%

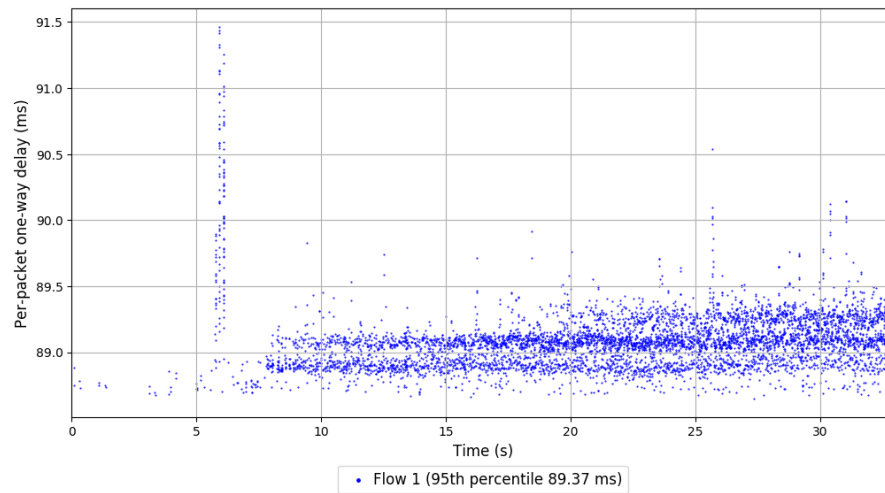
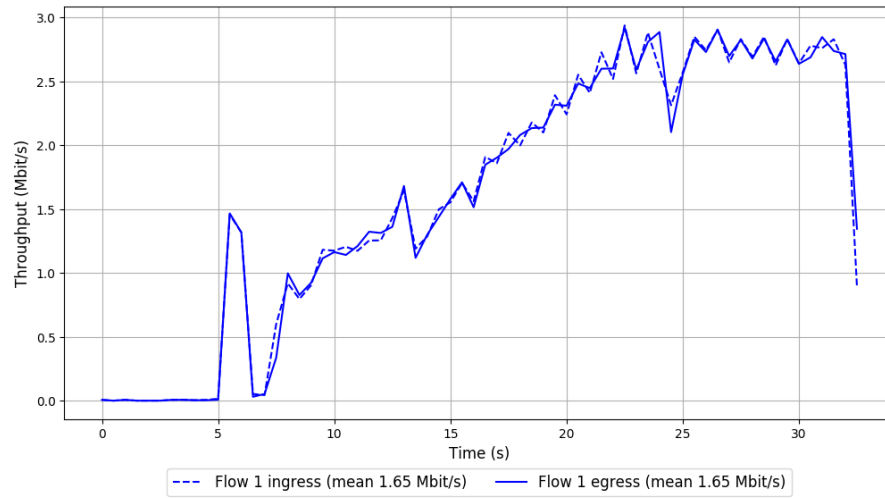
-- Flow 1:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 89.369 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-09 17:07:30

End at: 2018-01-09 17:08:00

Local clock offset: 2.083 ms

Remote clock offset: 1.621 ms

Below is generated by plot.py at 2018-01-09 23:17:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 89.848 ms

Loss rate: 0.00%

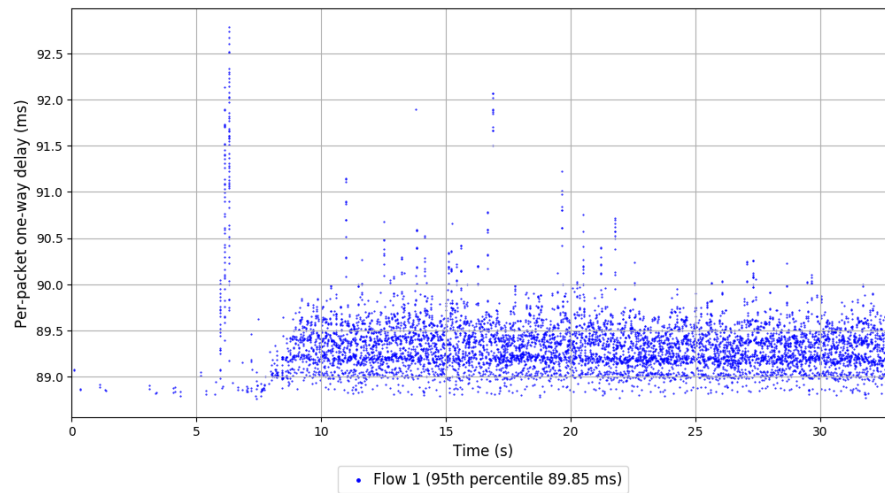
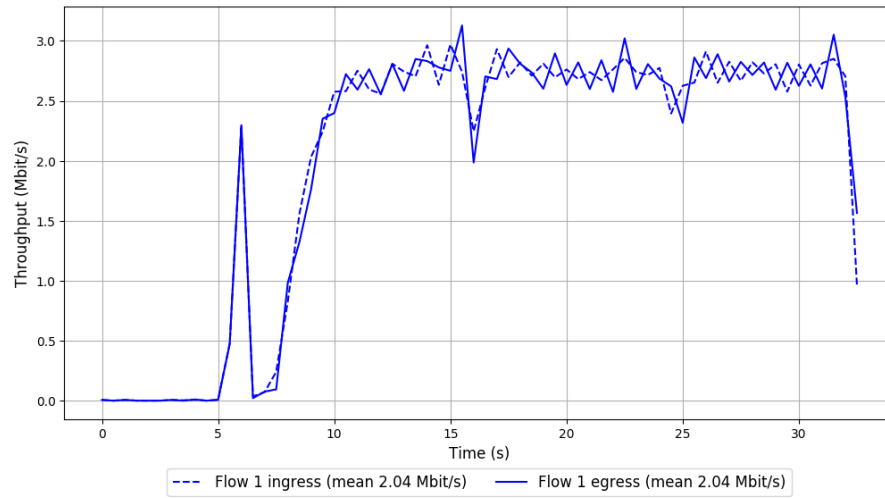
-- Flow 1:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 89.848 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

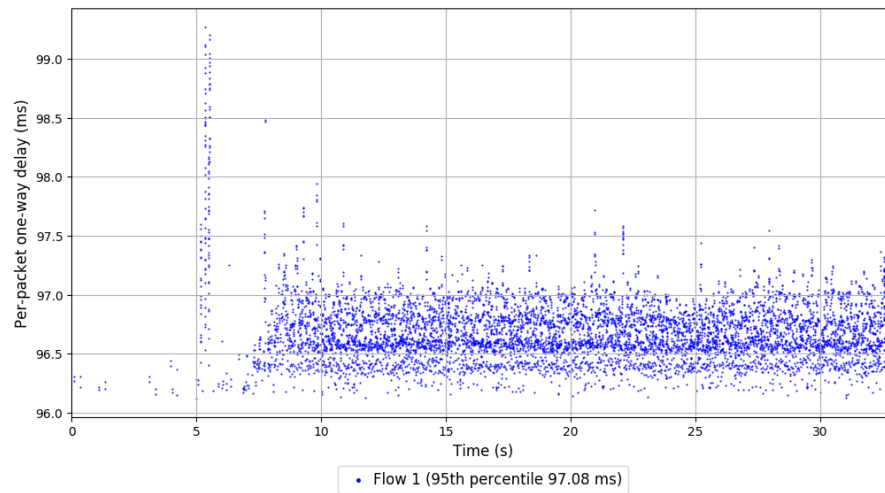
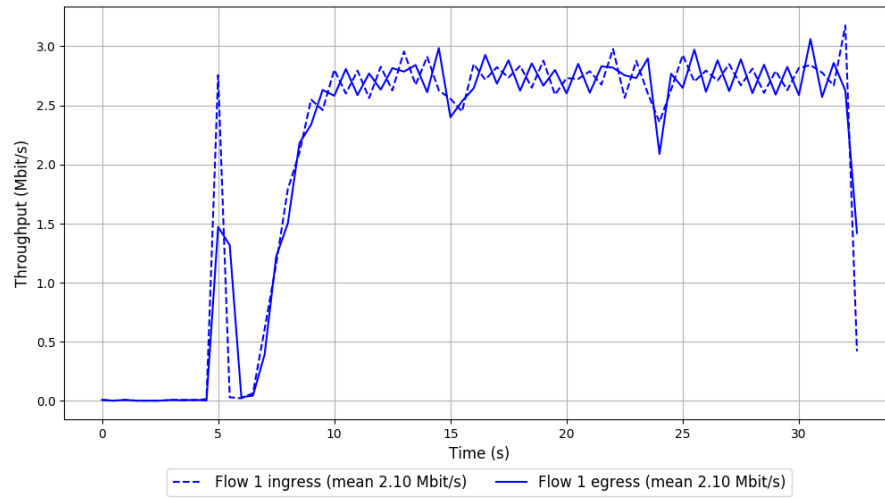


Run 6: Statistics of WebRTC media

Start at: 2018-01-09 18:23:39
End at: 2018-01-09 18:24:09
Local clock offset: 1.578 ms
Remote clock offset: 12.321 ms

Below is generated by plot.py at 2018-01-09 23:17:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 97.083 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 97.083 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

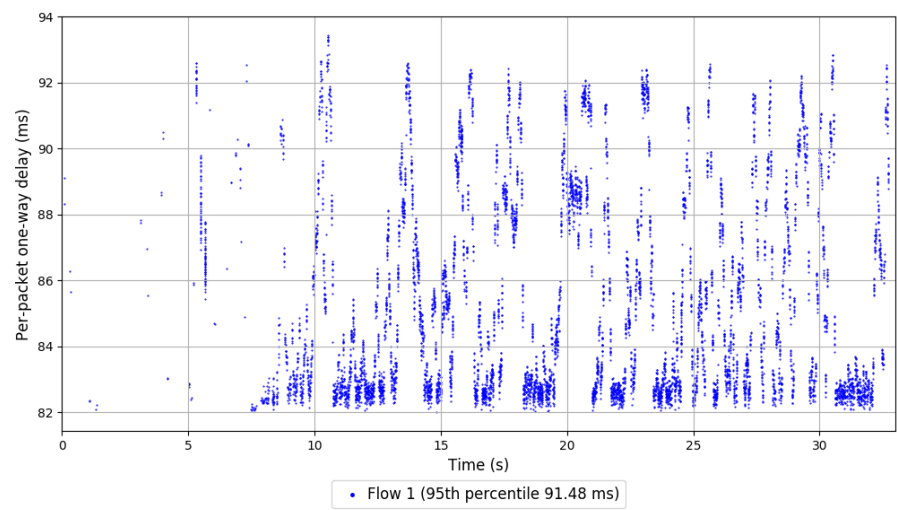
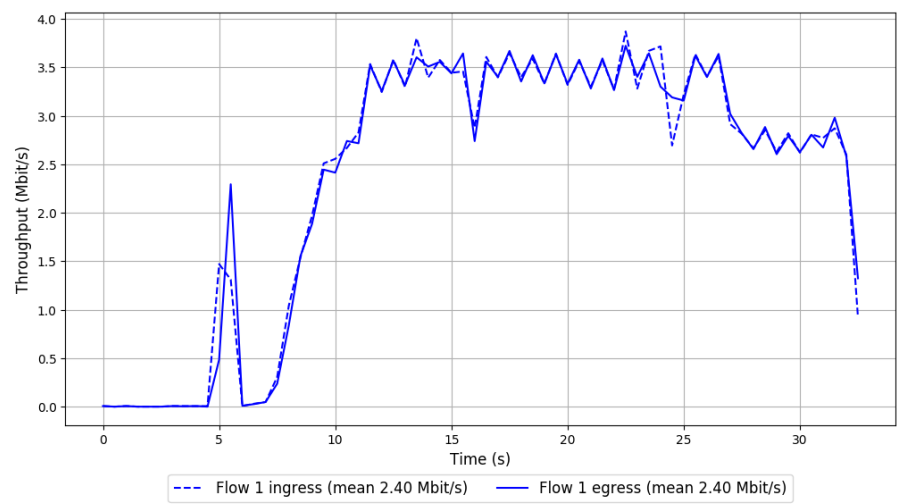


Run 7: Statistics of WebRTC media

Start at: 2018-01-09 19:41:21
End at: 2018-01-09 19:41:51
Local clock offset: 0.324 ms
Remote clock offset: -3.942 ms

Below is generated by plot.py at 2018-01-09 23:17:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 91.485 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 91.485 ms
Loss rate: 0.15%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

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

End at: 2018-01-09 21:02:12

Local clock offset: 0.514 ms

Remote clock offset: 0.588 ms

Below is generated by plot.py at 2018-01-09 23:17:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 88.761 ms

Loss rate: 0.00%

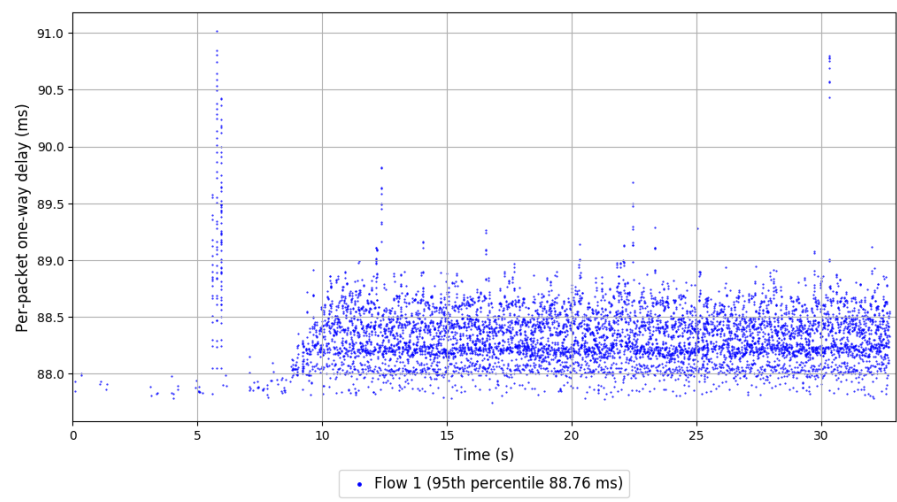
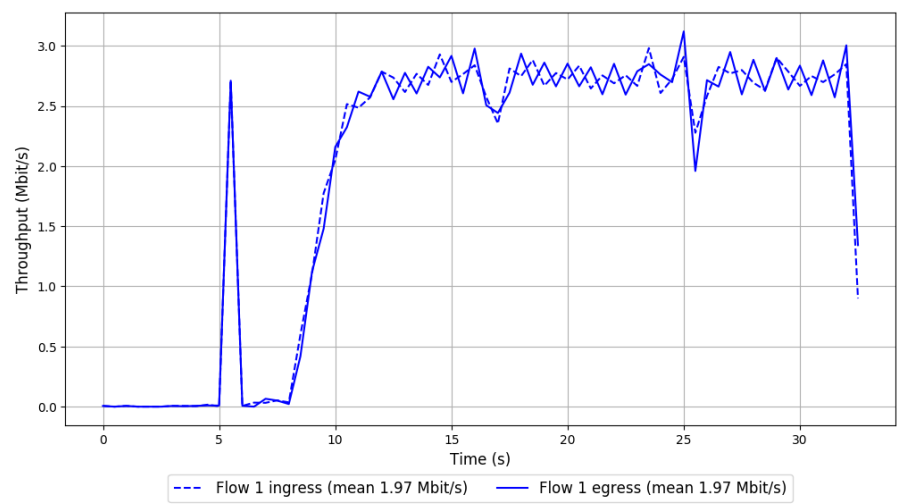
-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 88.761 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-09 22:25:51

End at: 2018-01-09 22:26:21

Local clock offset: 0.826 ms

Remote clock offset: 2.942 ms

Below is generated by plot.py at 2018-01-09 23:17:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 88.214 ms

Loss rate: 0.00%

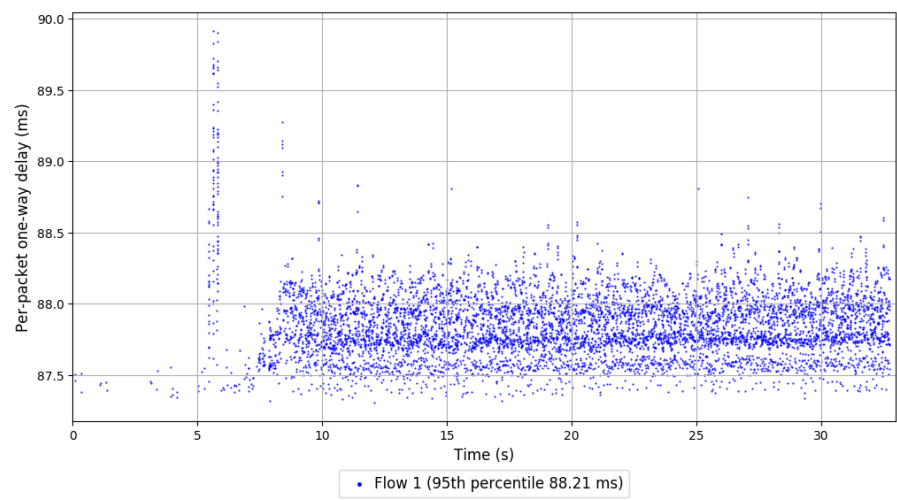
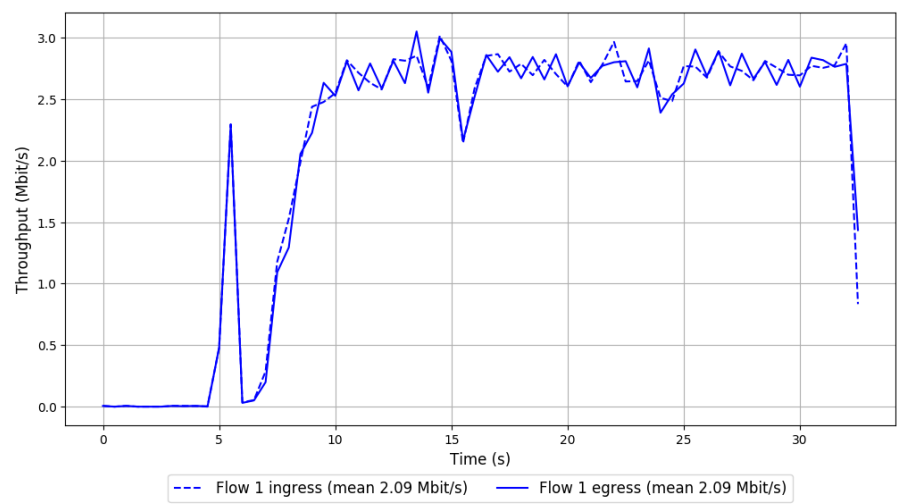
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 88.214 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-09 22:45:22

End at: 2018-01-09 22:45:52

Local clock offset: 0.702 ms

Remote clock offset: 1.881 ms

Below is generated by plot.py at 2018-01-09 23:17:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 88.733 ms

Loss rate: 0.00%

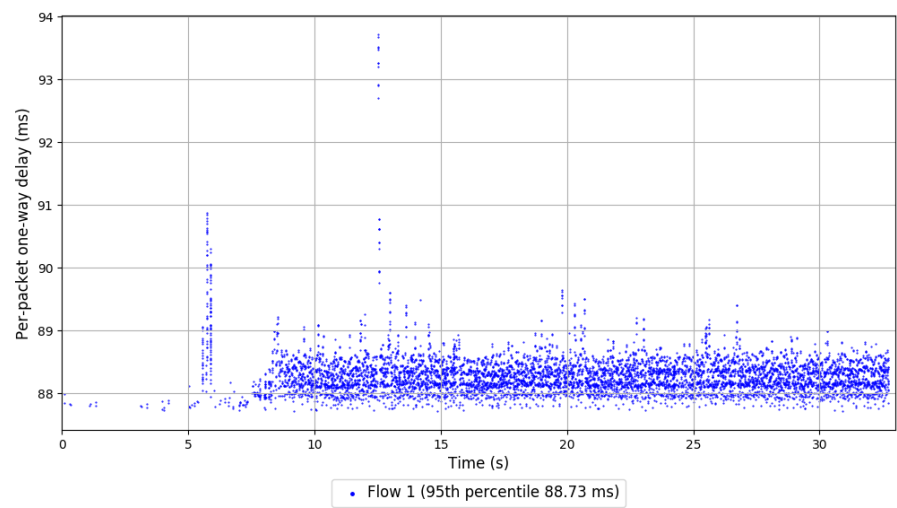
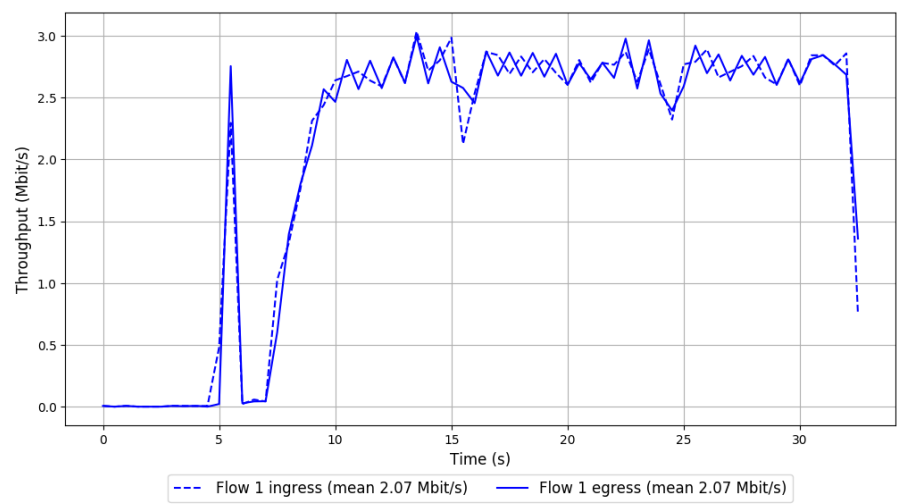
-- Flow 1:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 88.733 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

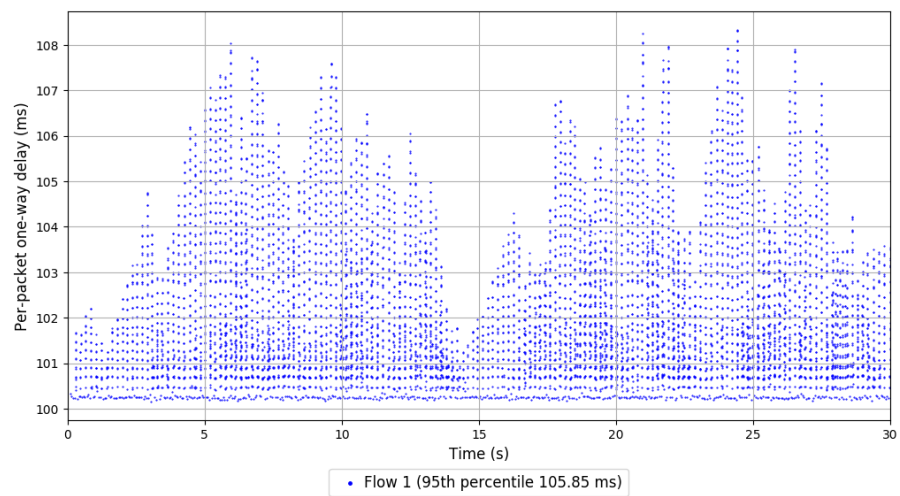
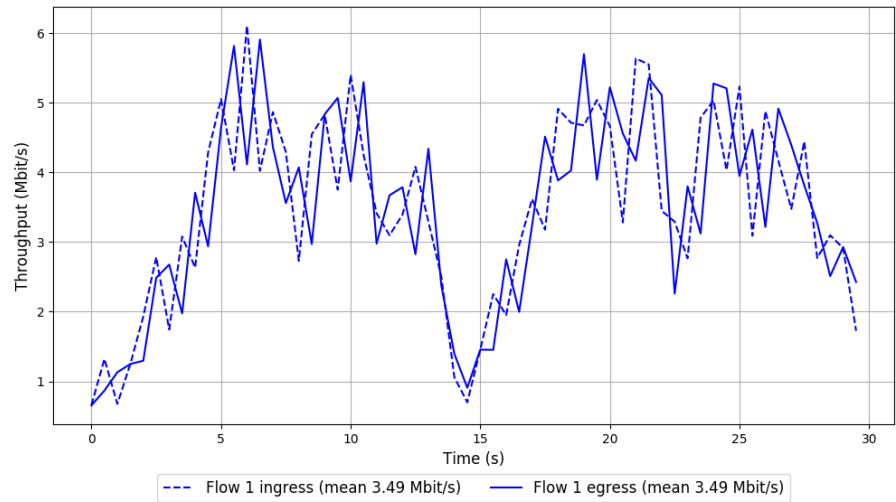


Run 1: Statistics of Sprout

Start at: 2018-01-09 10:13:45
End at: 2018-01-09 10:14:15
Local clock offset: -2.161 ms
Remote clock offset: 12.393 ms

Below is generated by plot.py at 2018-01-09 23:17:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.49 Mbit/s
95th percentile per-packet one-way delay: 105.853 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.49 Mbit/s
95th percentile per-packet one-way delay: 105.853 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

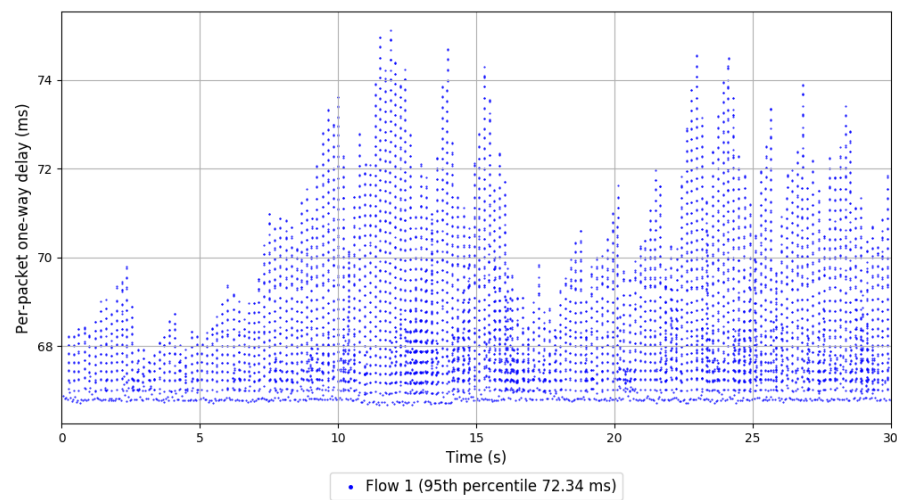
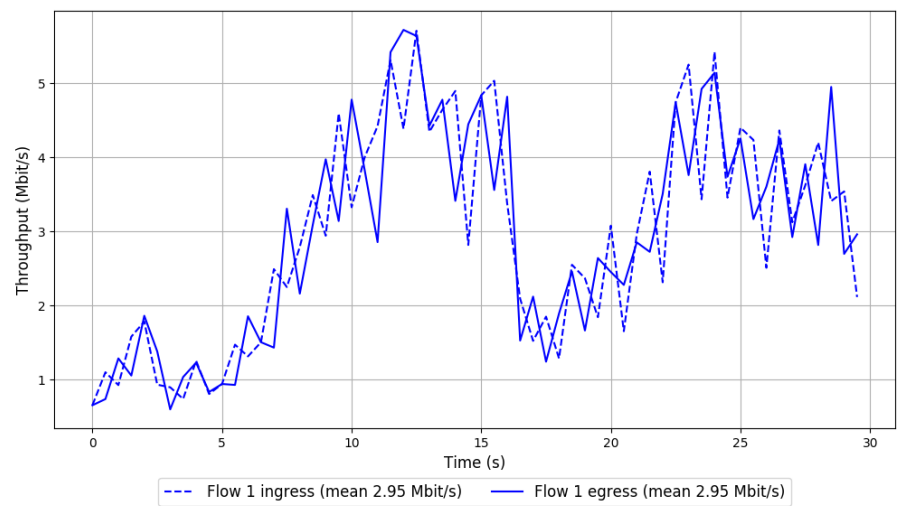


Run 2: Statistics of Sprout

Start at: 2018-01-09 13:15:22
End at: 2018-01-09 13:15:52
Local clock offset: 0.316 ms
Remote clock offset: -19.737 ms

Below is generated by plot.py at 2018-01-09 23:17:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.95 Mbit/s
95th percentile per-packet one-way delay: 72.343 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.95 Mbit/s
95th percentile per-packet one-way delay: 72.343 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

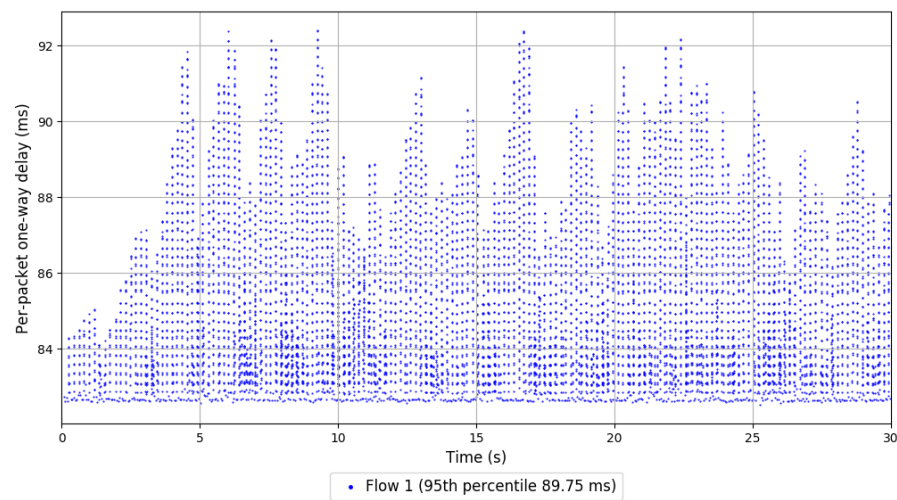
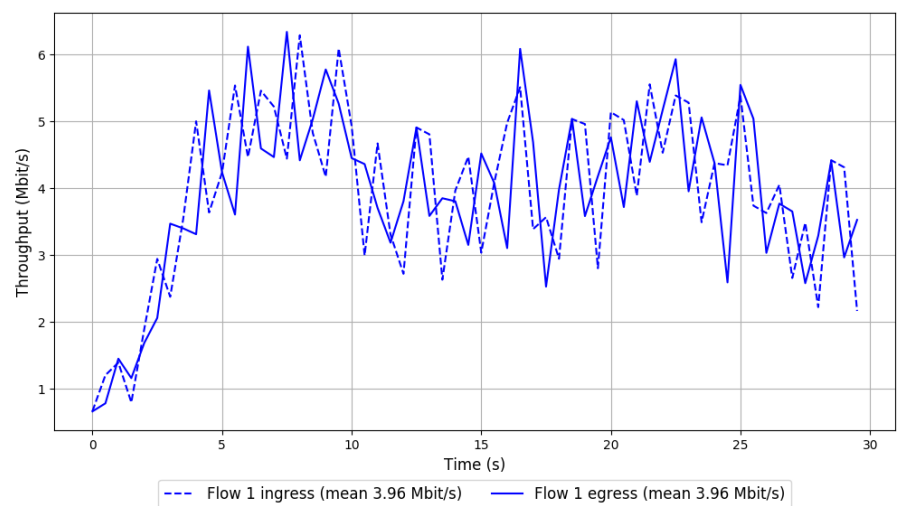


Run 3: Statistics of Sprout

Start at: 2018-01-09 15:25:55
End at: 2018-01-09 15:26:25
Local clock offset: 1.202 ms
Remote clock offset: -4.202 ms

Below is generated by plot.py at 2018-01-09 23:17:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.96 Mbit/s
95th percentile per-packet one-way delay: 89.748 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.96 Mbit/s
95th percentile per-packet one-way delay: 89.748 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

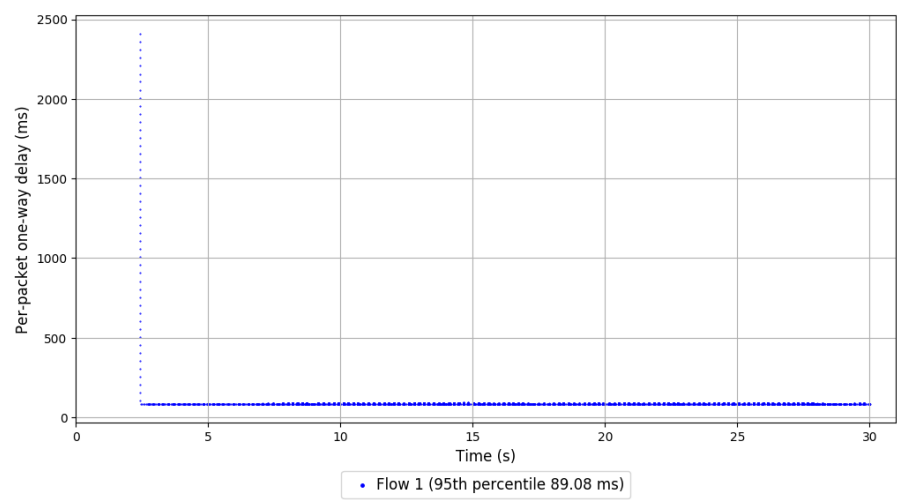
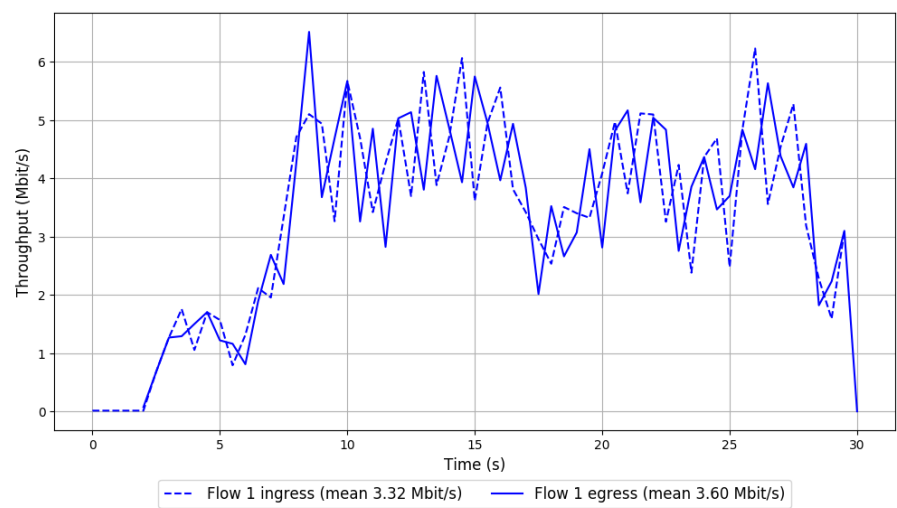


Run 4: Statistics of Sprout

Start at: 2018-01-09 16:46:55
End at: 2018-01-09 16:47:25
Local clock offset: 1.829 ms
Remote clock offset: -4.859 ms

Below is generated by plot.py at 2018-01-09 23:17:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.60 Mbit/s
95th percentile per-packet one-way delay: 89.085 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.60 Mbit/s
95th percentile per-packet one-way delay: 89.085 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-09 18:08:20

End at: 2018-01-09 18:08:50

Local clock offset: 1.907 ms

Remote clock offset: 6.565 ms

Below is generated by plot.py at 2018-01-09 23:17:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.95 Mbit/s

95th percentile per-packet one-way delay: 96.695 ms

Loss rate: 0.00%

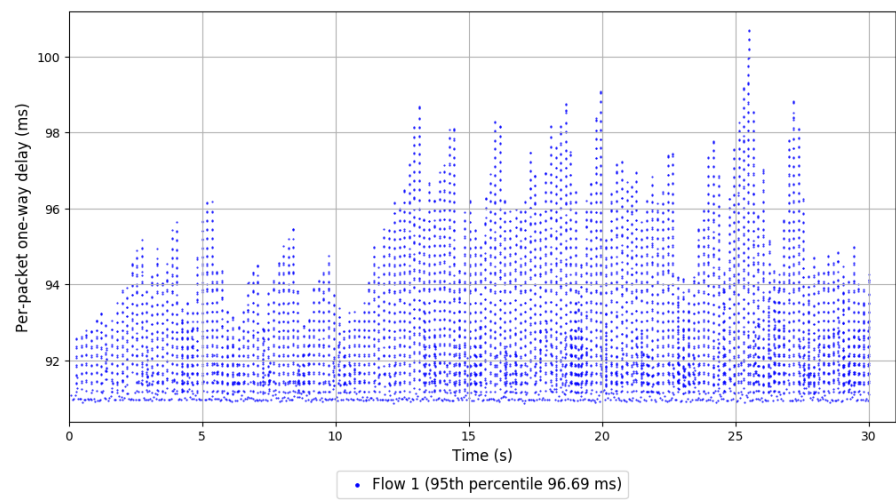
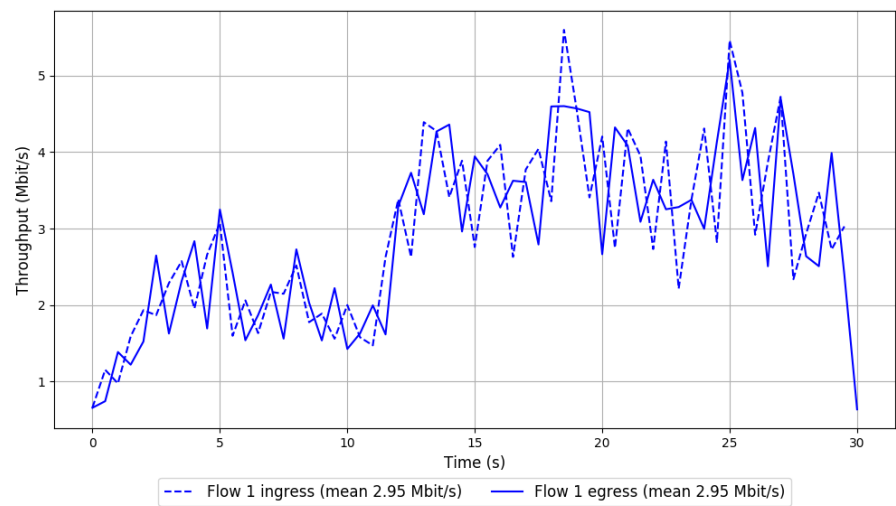
-- Flow 1:

Average throughput: 2.95 Mbit/s

95th percentile per-packet one-way delay: 96.695 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-09 19:23:15

End at: 2018-01-09 19:23:45

Local clock offset: 0.429 ms

Remote clock offset: 3.073 ms

Below is generated by plot.py at 2018-01-09 23:17:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.98 Mbit/s

95th percentile per-packet one-way delay: 97.017 ms

Loss rate: 0.01%

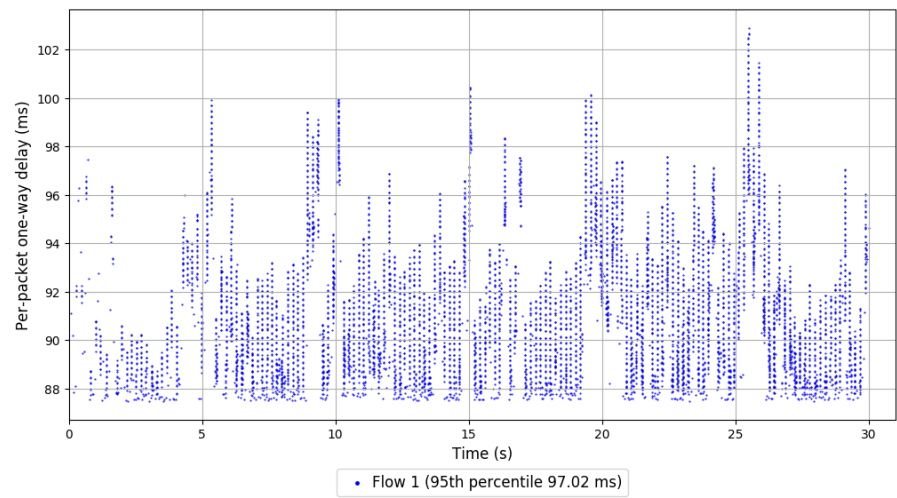
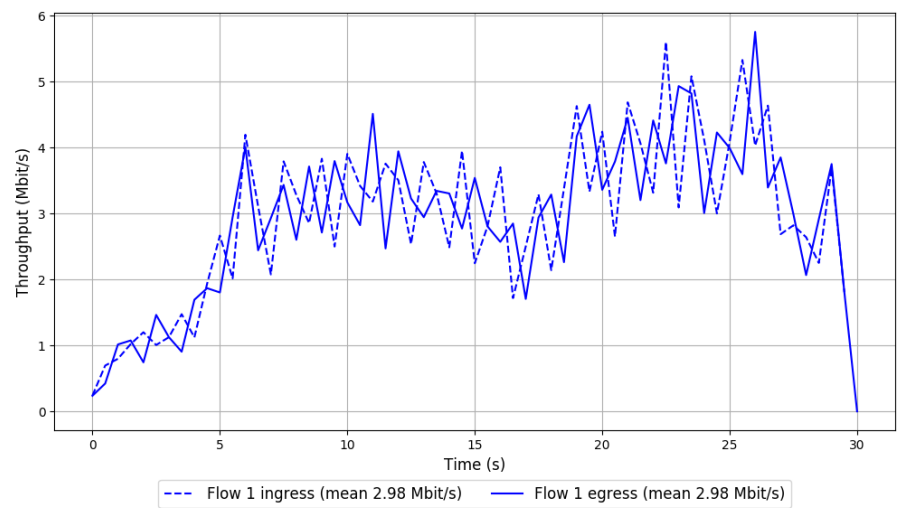
-- Flow 1:

Average throughput: 2.98 Mbit/s

95th percentile per-packet one-way delay: 97.017 ms

Loss rate: 0.01%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-09 20:44:23

End at: 2018-01-09 20:44:53

Local clock offset: 0.438 ms

Remote clock offset: -4.06 ms

Below is generated by plot.py at 2018-01-09 23:17:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.26 Mbit/s

95th percentile per-packet one-way delay: 89.319 ms

Loss rate: 0.00%

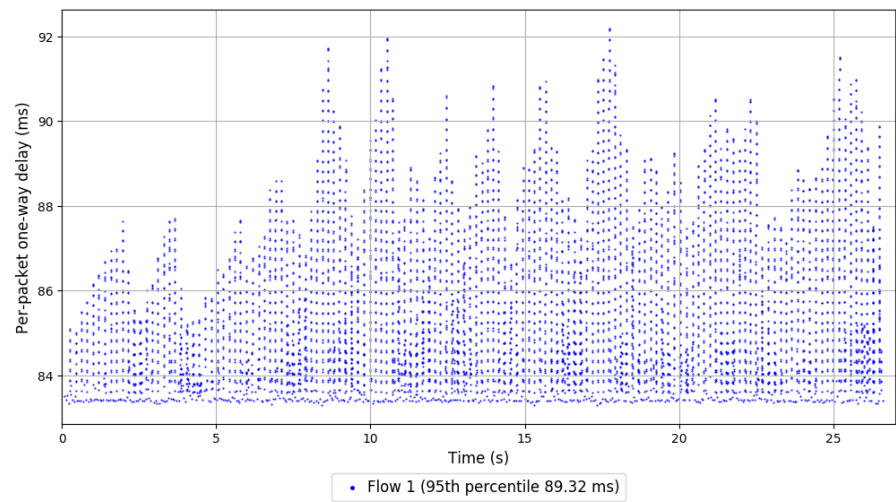
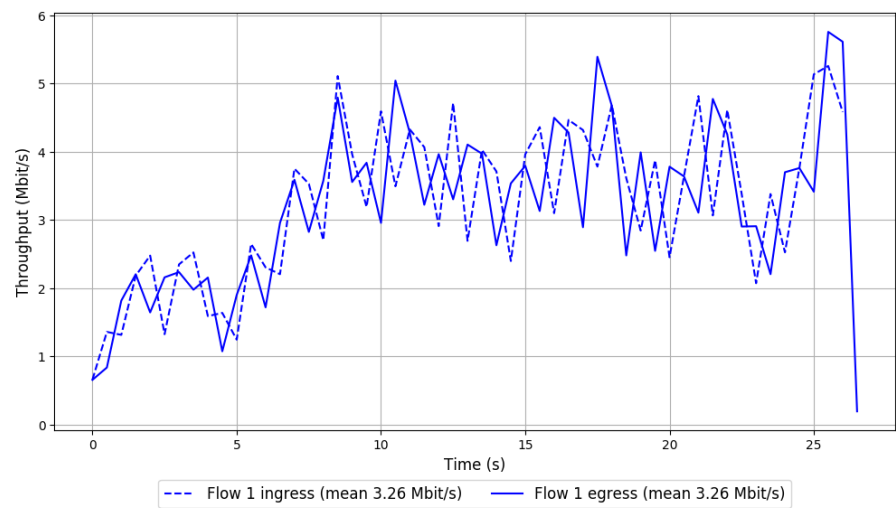
-- Flow 1:

Average throughput: 3.26 Mbit/s

95th percentile per-packet one-way delay: 89.319 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

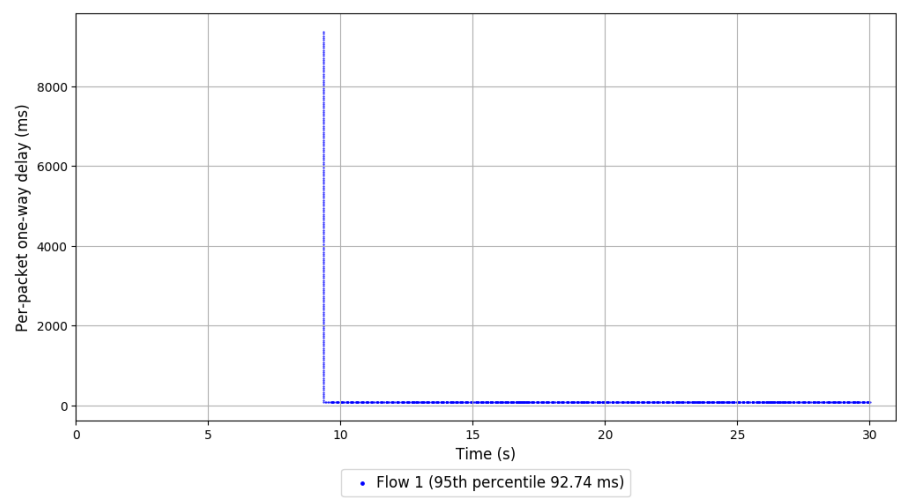
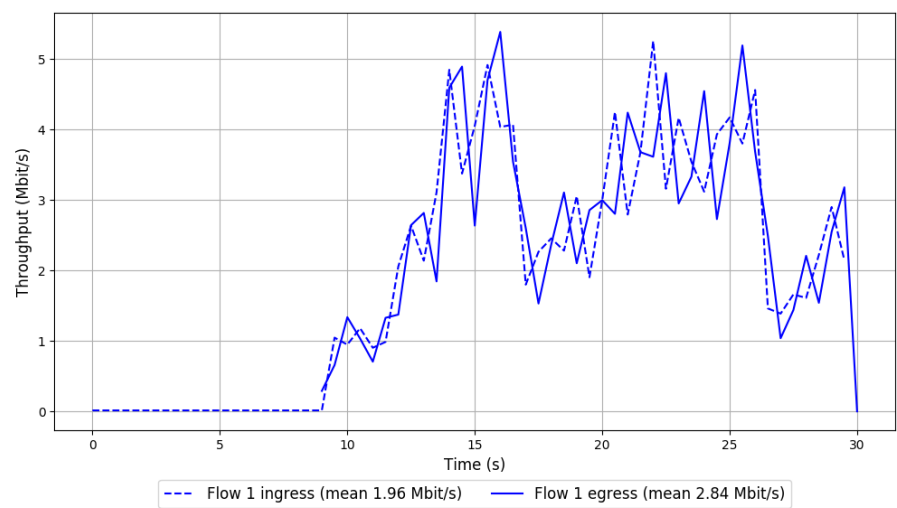
Start at: 2018-01-09 22:04:19

End at: 2018-01-09 22:04:49

Local clock offset: 0.783 ms

Remote clock offset: 1.662 ms

Run 8: Report of Sprout — Data Link

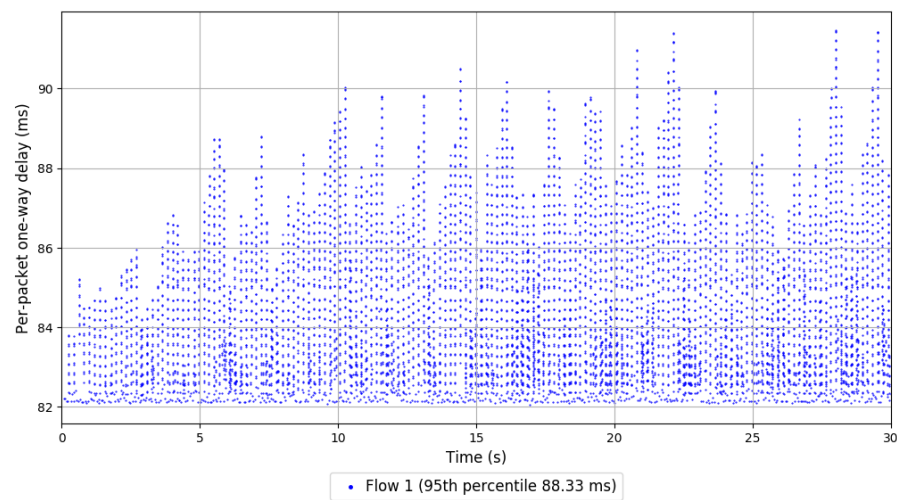
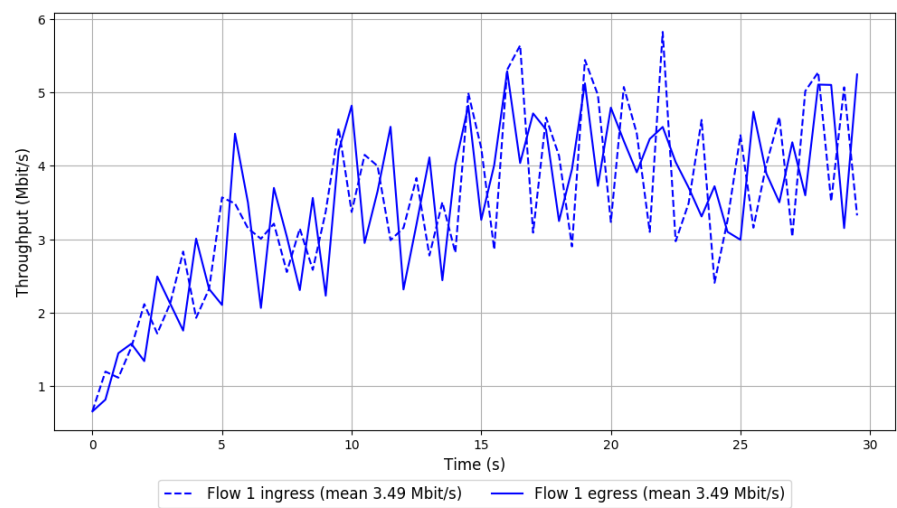


Run 9: Statistics of Sprout

Start at: 2018-01-09 22:40:37
End at: 2018-01-09 22:41:07
Local clock offset: 0.712 ms
Remote clock offset: -3.838 ms

Below is generated by plot.py at 2018-01-09 23:17:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.49 Mbit/s
95th percentile per-packet one-way delay: 88.331 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.49 Mbit/s
95th percentile per-packet one-way delay: 88.331 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

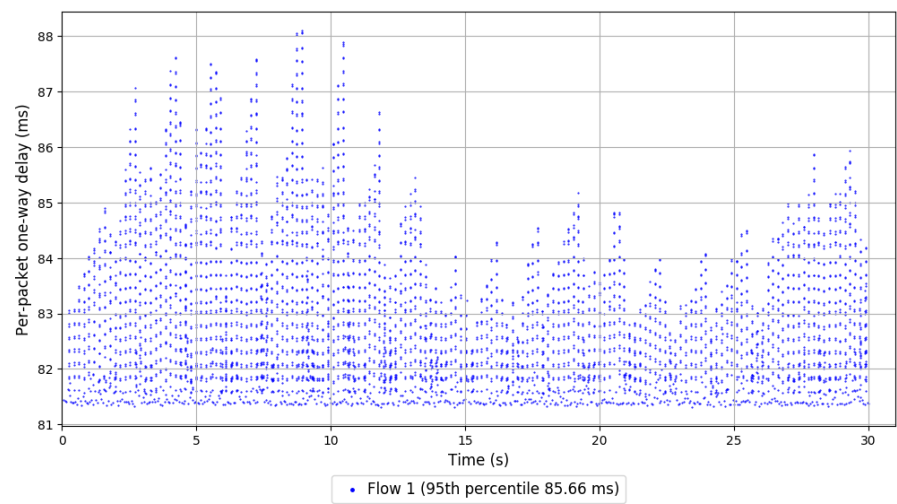
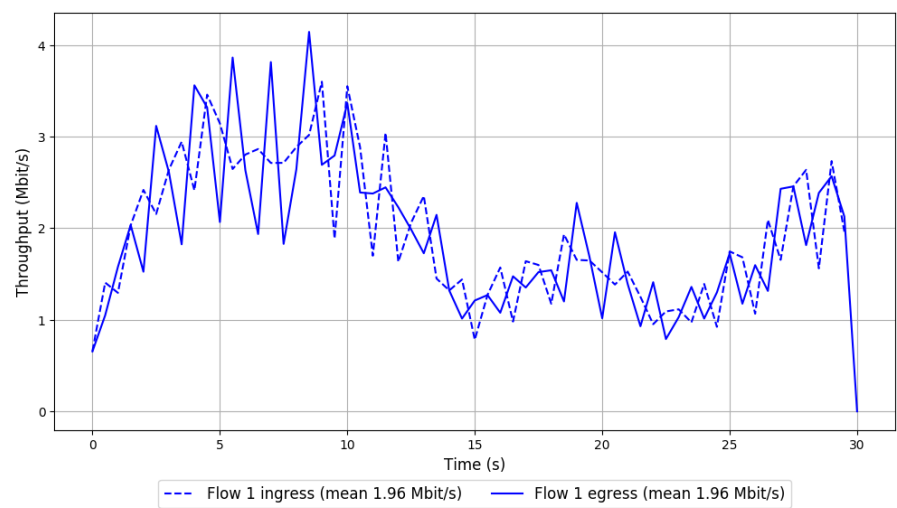


Run 10: Statistics of Sprout

Start at: 2018-01-09 22:58:48
End at: 2018-01-09 22:59:18
Local clock offset: 0.498 ms
Remote clock offset: -2.883 ms

Below is generated by plot.py at 2018-01-09 23:17:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 85.660 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 85.660 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-01-09 07:43:48

End at: 2018-01-09 07:44:18

Local clock offset: -0.6 ms

Remote clock offset: 9.507 ms

Below is generated by plot.py at 2018-01-09 23:20:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.66 Mbit/s

95th percentile per-packet one-way delay: 121.459 ms

Loss rate: 0.59%

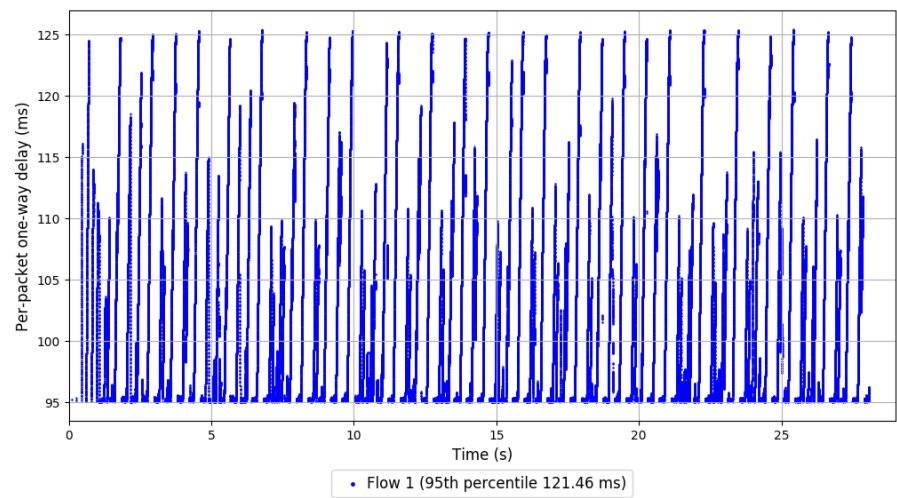
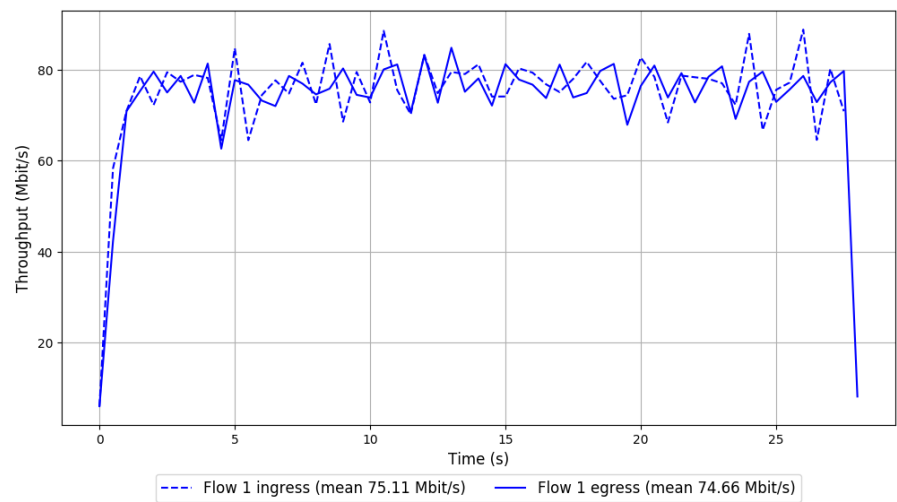
-- Flow 1:

Average throughput: 74.66 Mbit/s

95th percentile per-packet one-way delay: 121.459 ms

Loss rate: 0.59%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-01-09 10:24:54

End at: 2018-01-09 10:25:24

Local clock offset: -1.996 ms

Remote clock offset: 13.348 ms

Below is generated by plot.py at 2018-01-09 23:20:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.51 Mbit/s

95th percentile per-packet one-way delay: 129.961 ms

Loss rate: 0.82%

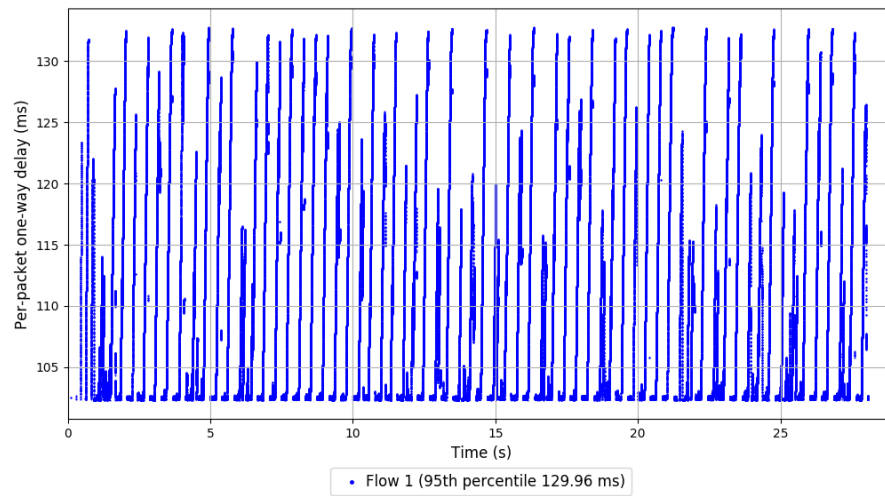
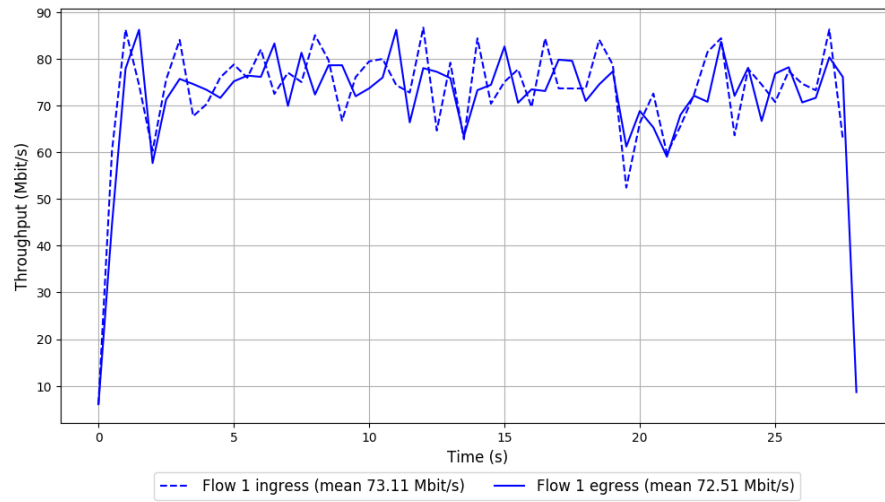
-- Flow 1:

Average throughput: 72.51 Mbit/s

95th percentile per-packet one-way delay: 129.961 ms

Loss rate: 0.82%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-01-09 13:27:30

End at: 2018-01-09 13:28:00

Local clock offset: 0.527 ms

Remote clock offset: -13.18 ms

Below is generated by plot.py at 2018-01-09 23:20:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.35 Mbit/s

95th percentile per-packet one-way delay: 101.066 ms

Loss rate: 0.60%

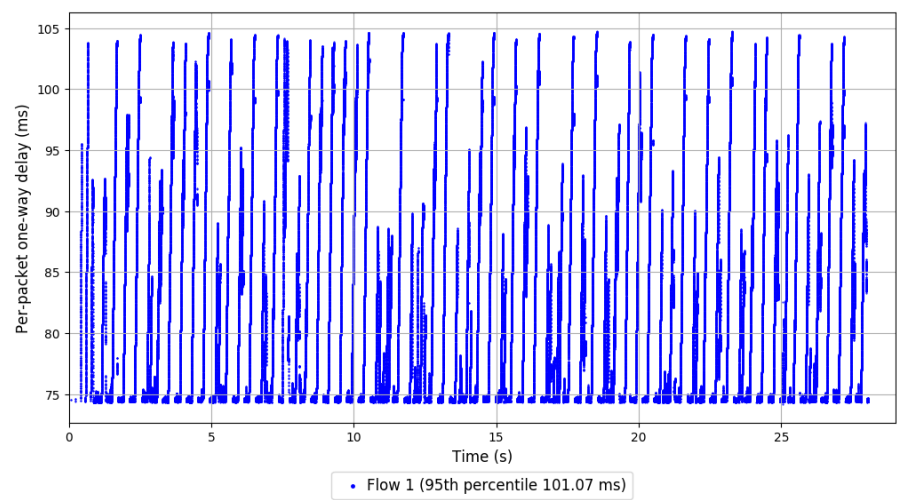
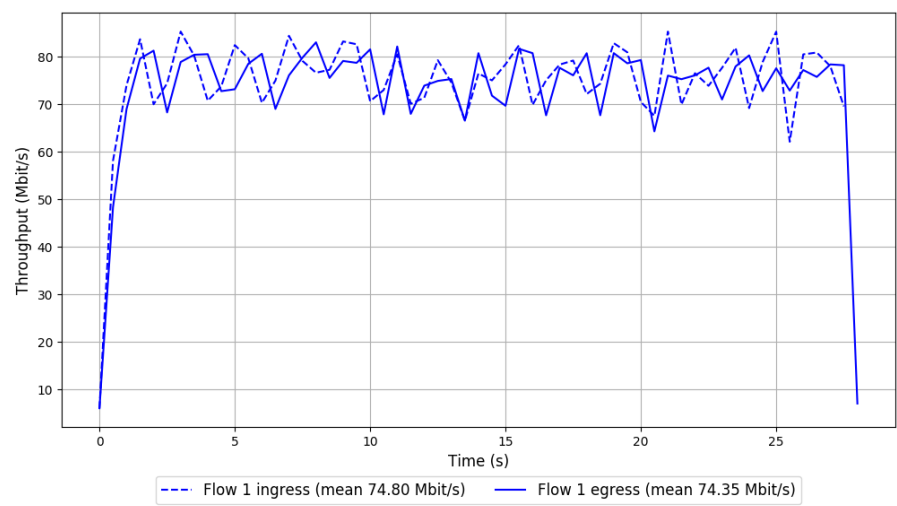
-- Flow 1:

Average throughput: 74.35 Mbit/s

95th percentile per-packet one-way delay: 101.066 ms

Loss rate: 0.60%

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

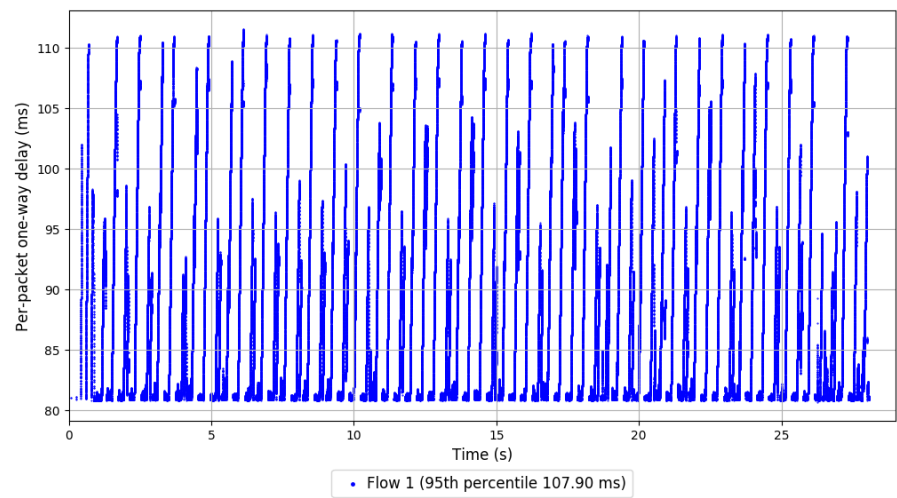
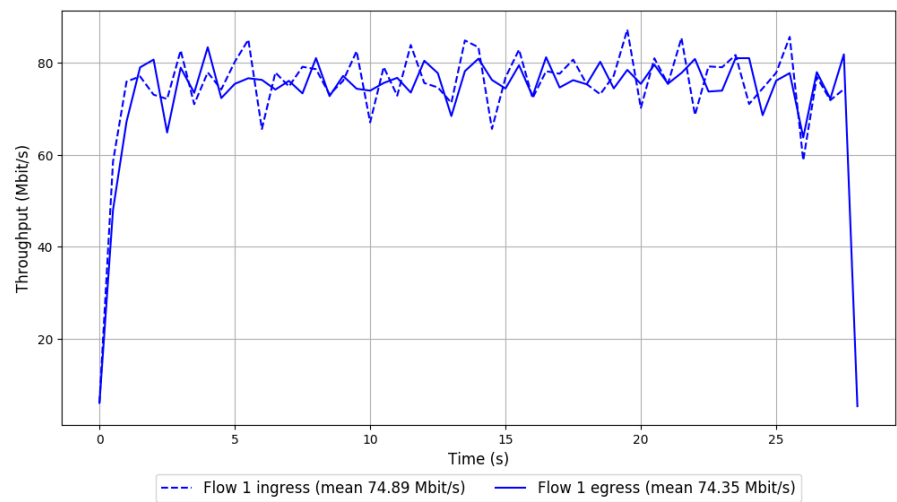


Run 4: Statistics of TaoVA-100x

Start at: 2018-01-09 15:34:39
End at: 2018-01-09 15:35:09
Local clock offset: 1.195 ms
Remote clock offset: -6.166 ms

Below is generated by plot.py at 2018-01-09 23:20:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.35 Mbit/s
95th percentile per-packet one-way delay: 107.898 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 74.35 Mbit/s
95th percentile per-packet one-way delay: 107.898 ms
Loss rate: 0.72%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-09 16:57:46

End at: 2018-01-09 16:58:16

Local clock offset: 2.089 ms

Remote clock offset: 1.128 ms

Below is generated by plot.py at 2018-01-09 23:20:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.91 Mbit/s

95th percentile per-packet one-way delay: 114.029 ms

Loss rate: 0.65%

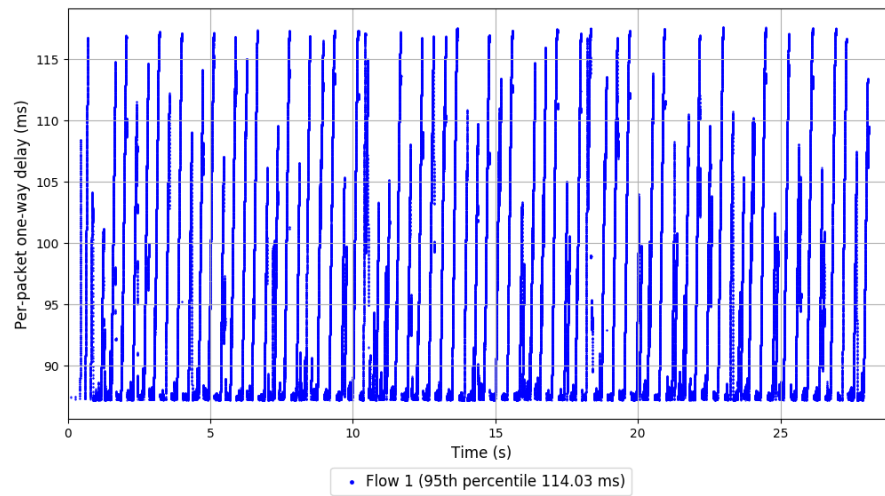
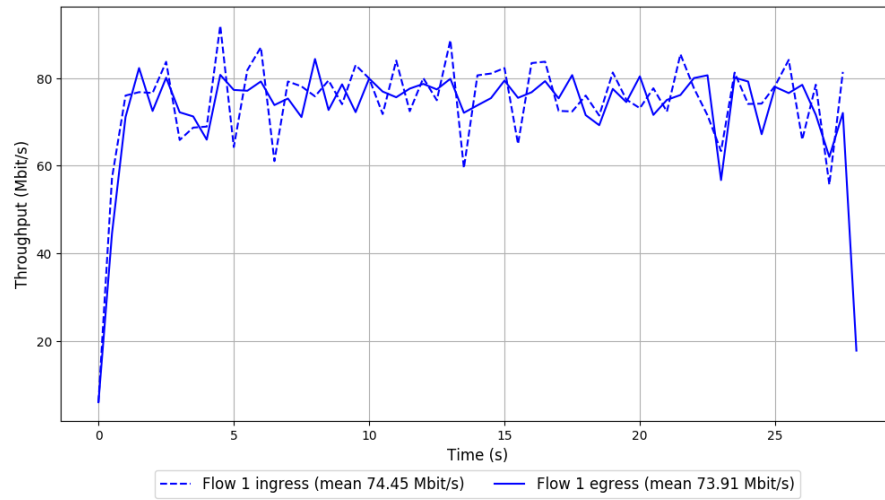
-- Flow 1:

Average throughput: 73.91 Mbit/s

95th percentile per-packet one-way delay: 114.029 ms

Loss rate: 0.65%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-09 18:14:52

End at: 2018-01-09 18:15:22

Local clock offset: 1.787 ms

Remote clock offset: 5.664 ms

Below is generated by plot.py at 2018-01-09 23:20:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.24 Mbit/s

95th percentile per-packet one-way delay: 116.510 ms

Loss rate: 0.64%

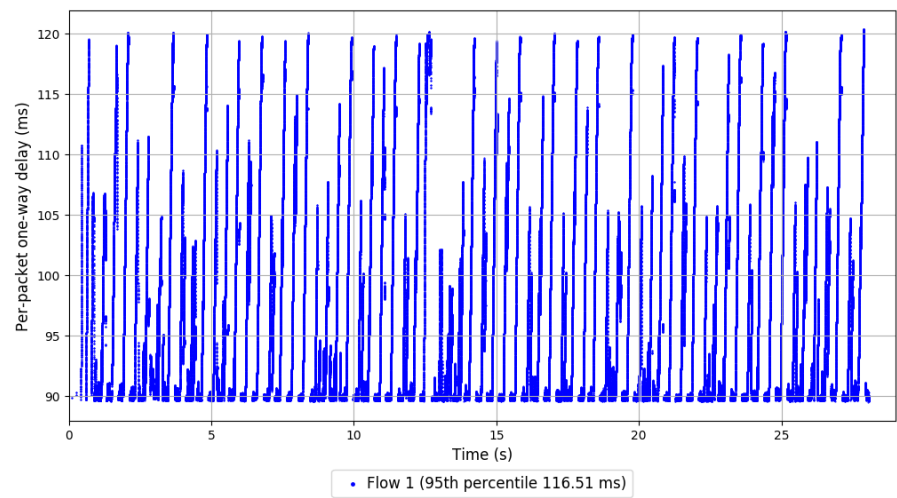
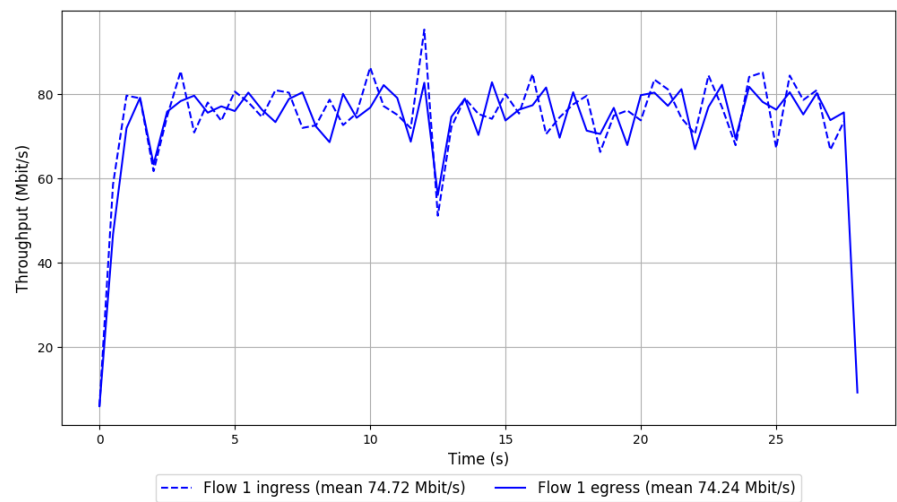
-- Flow 1:

Average throughput: 74.24 Mbit/s

95th percentile per-packet one-way delay: 116.510 ms

Loss rate: 0.64%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-09 19:30:31

End at: 2018-01-09 19:31:01

Local clock offset: 0.452 ms

Remote clock offset: 2.319 ms

Below is generated by plot.py at 2018-01-09 23:20:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.38 Mbit/s

95th percentile per-packet one-way delay: 111.890 ms

Loss rate: 0.41%

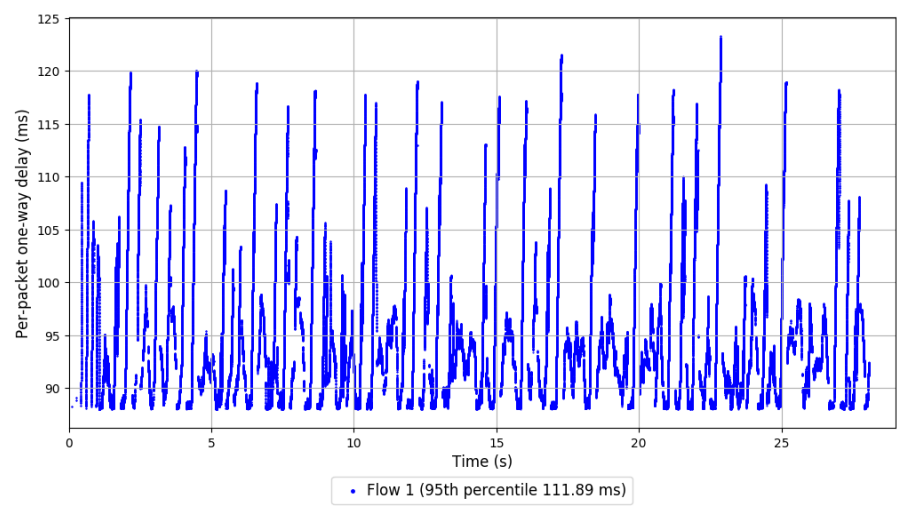
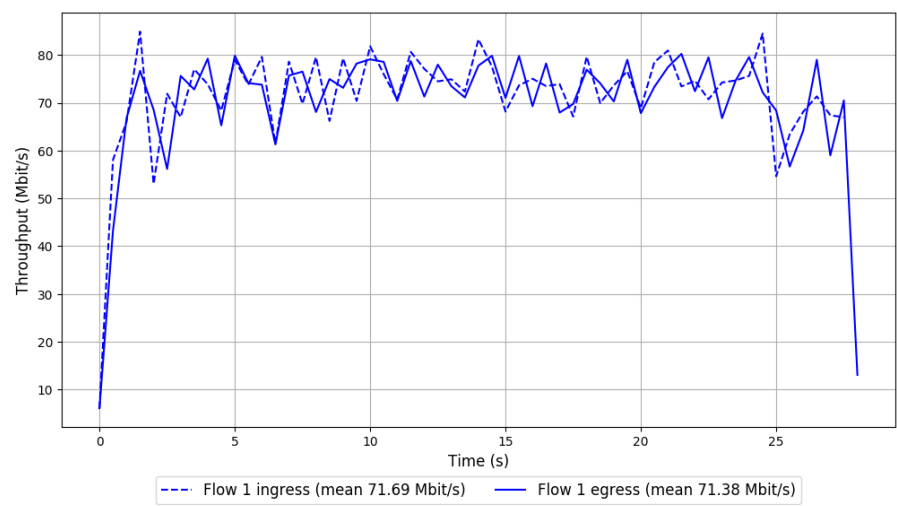
-- Flow 1:

Average throughput: 71.38 Mbit/s

95th percentile per-packet one-way delay: 111.890 ms

Loss rate: 0.41%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-09 20:52:45

End at: 2018-01-09 20:53:15

Local clock offset: 0.463 ms

Remote clock offset: -3.9 ms

Below is generated by plot.py at 2018-01-09 23:21:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.12 Mbit/s

95th percentile per-packet one-way delay: 110.913 ms

Loss rate: 0.62%

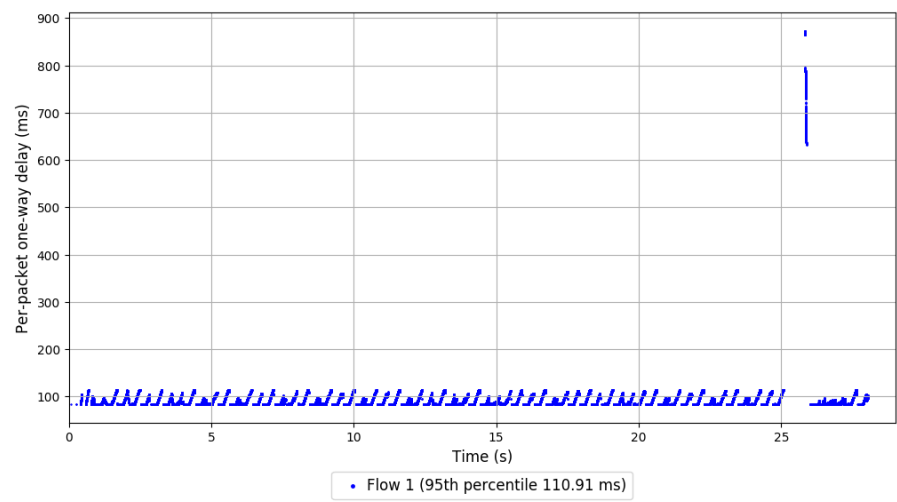
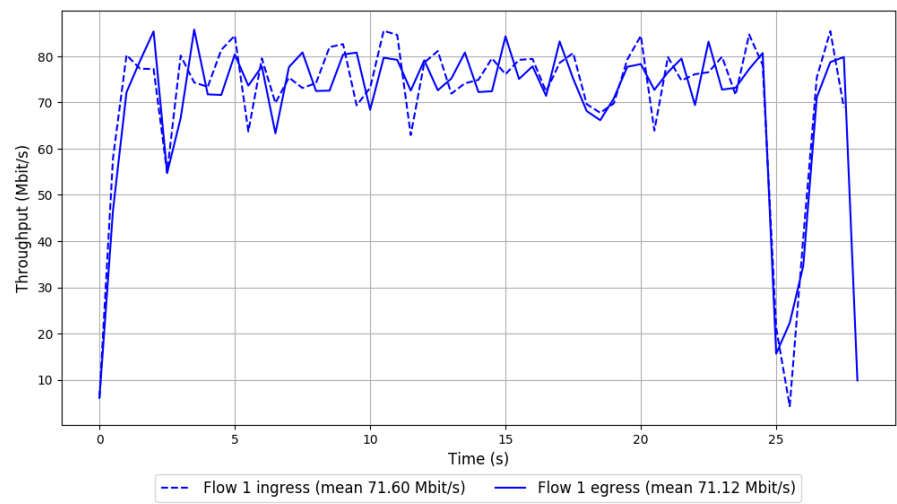
-- Flow 1:

Average throughput: 71.12 Mbit/s

95th percentile per-packet one-way delay: 110.913 ms

Loss rate: 0.62%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-09 22:13:51

End at: 2018-01-09 22:14:21

Local clock offset: 0.759 ms

Remote clock offset: -3.09 ms

Below is generated by plot.py at 2018-01-09 23:23:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.84 Mbit/s

95th percentile per-packet one-way delay: 107.847 ms

Loss rate: 0.62%

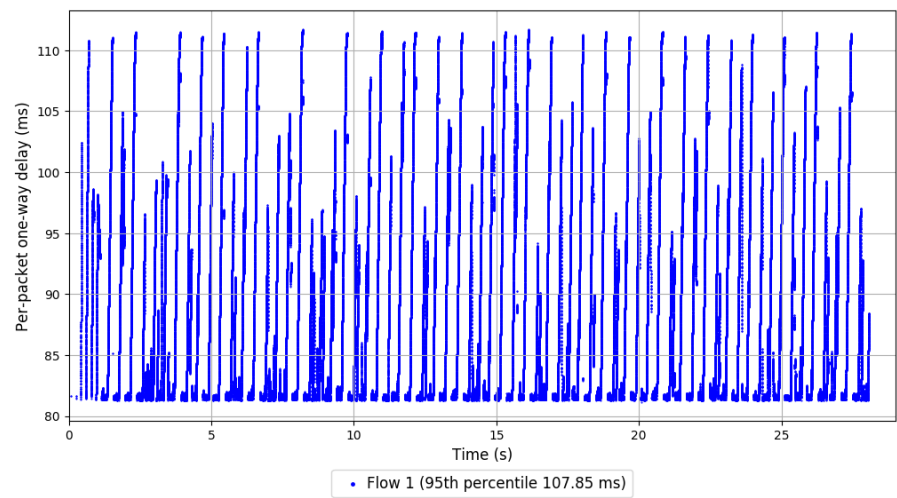
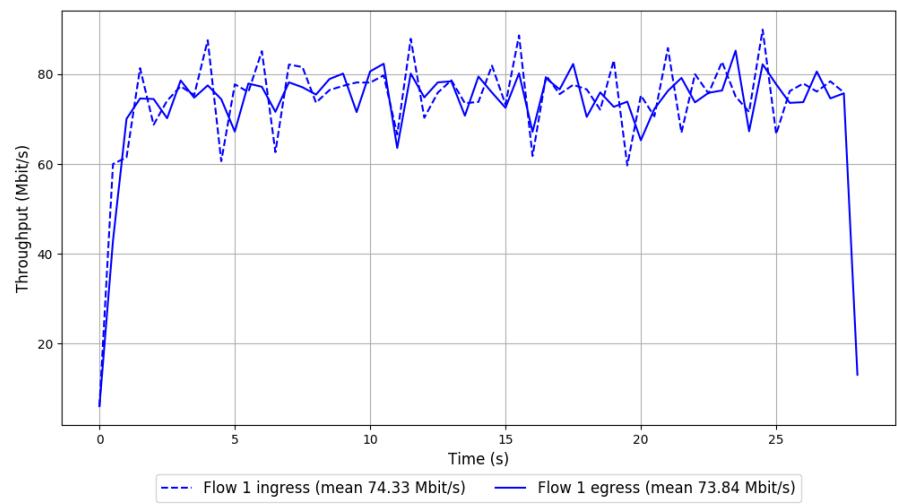
-- Flow 1:

Average throughput: 73.84 Mbit/s

95th percentile per-packet one-way delay: 107.847 ms

Loss rate: 0.62%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-01-09 22:44:09

End at: 2018-01-09 22:44:39

Local clock offset: 0.718 ms

Remote clock offset: 2.234 ms

Below is generated by plot.py at 2018-01-09 23:23:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.05 Mbit/s

95th percentile per-packet one-way delay: 113.074 ms

Loss rate: 0.61%

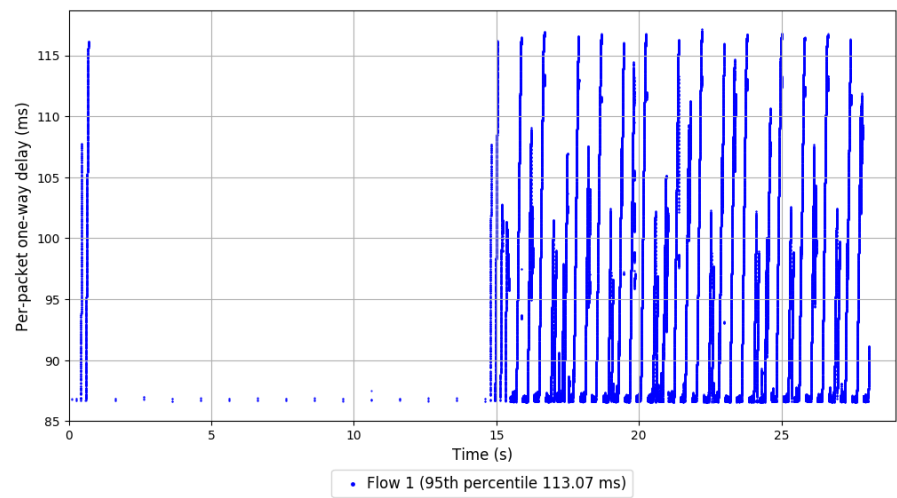
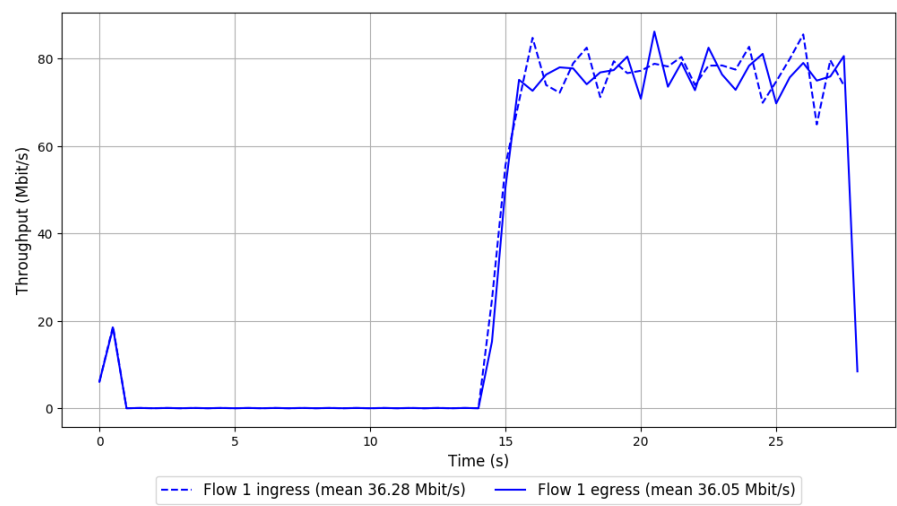
-- Flow 1:

Average throughput: 36.05 Mbit/s

95th percentile per-packet one-way delay: 113.074 ms

Loss rate: 0.61%

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

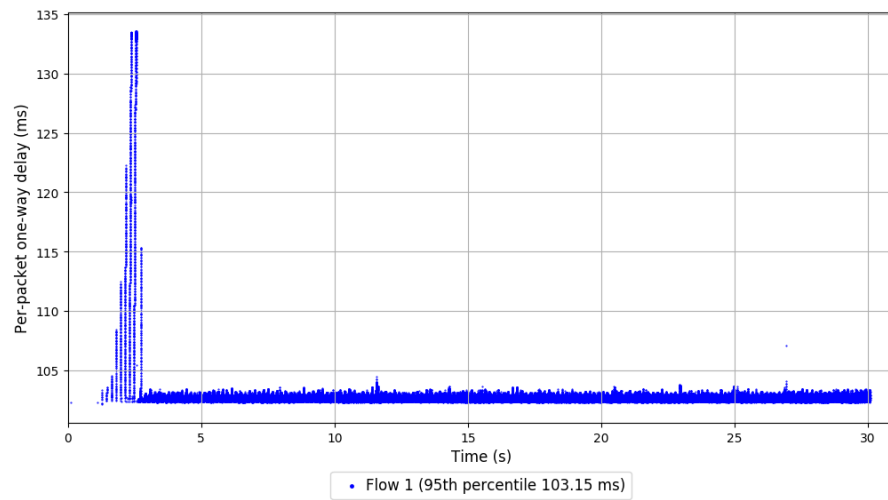
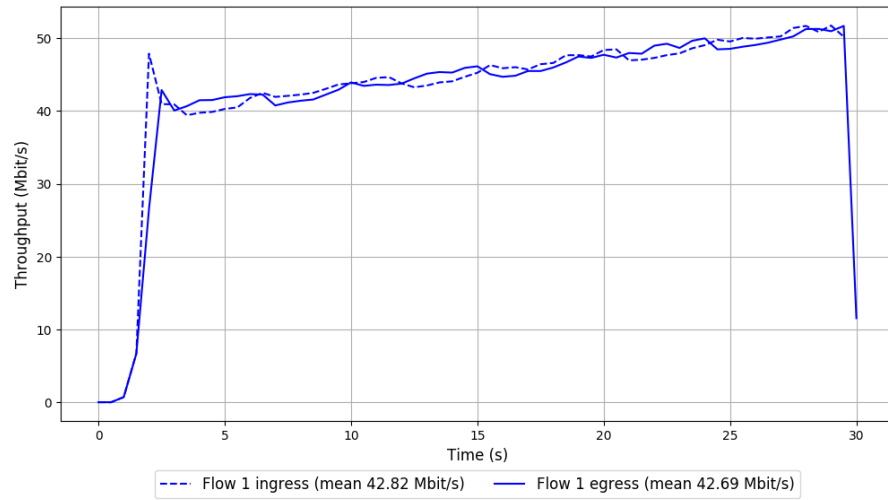


Run 1: Statistics of TCP Vegas

Start at: 2018-01-09 08:10:25
End at: 2018-01-09 08:10:55
Local clock offset: -1.373 ms
Remote clock offset: 13.845 ms

Below is generated by plot.py at 2018-01-09 23:23:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 42.69 Mbit/s
95th percentile per-packet one-way delay: 103.151 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 42.69 Mbit/s
95th percentile per-packet one-way delay: 103.151 ms
Loss rate: 0.30%

Run 1: Report of TCP Vegas — Data Link

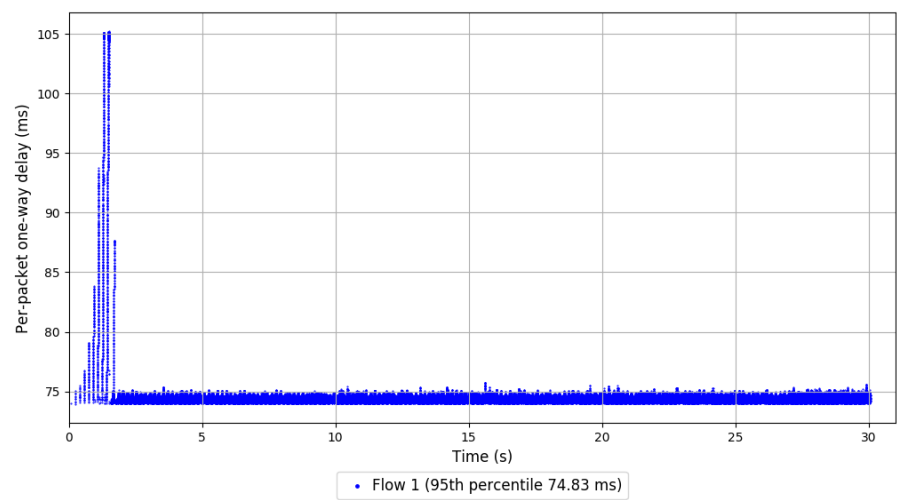
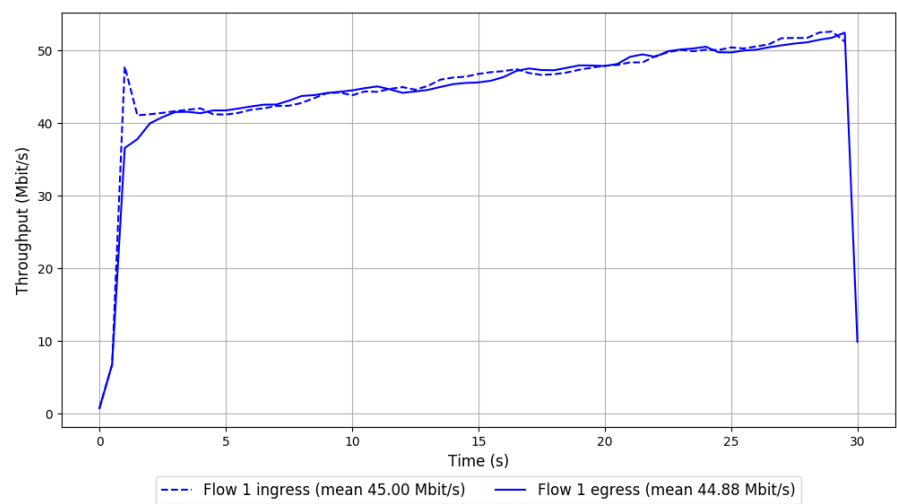


Run 2: Statistics of TCP Vegas

Start at: 2018-01-09 10:57:48
End at: 2018-01-09 10:58:18
Local clock offset: -1.609 ms
Remote clock offset: -14.194 ms

Below is generated by plot.py at 2018-01-09 23:23:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 44.88 Mbit/s
95th percentile per-packet one-way delay: 74.828 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 44.88 Mbit/s
95th percentile per-packet one-way delay: 74.828 ms
Loss rate: 0.27%

Run 2: Report of TCP Vegas — Data Link

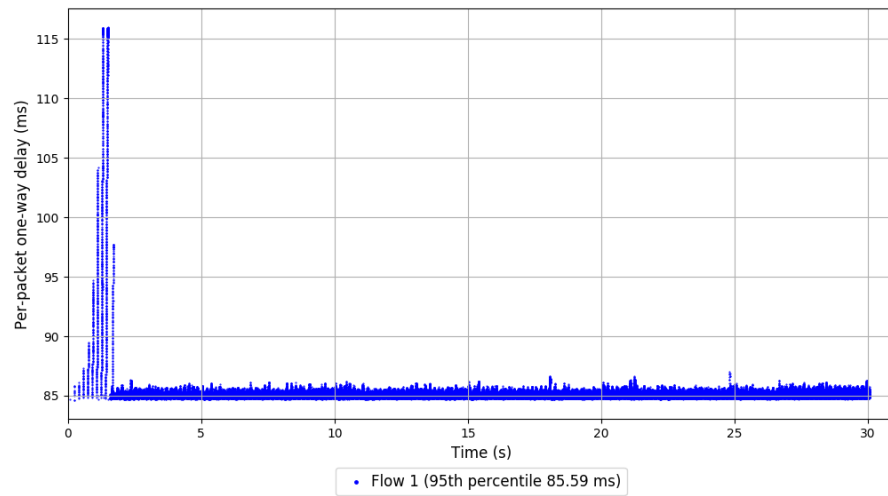
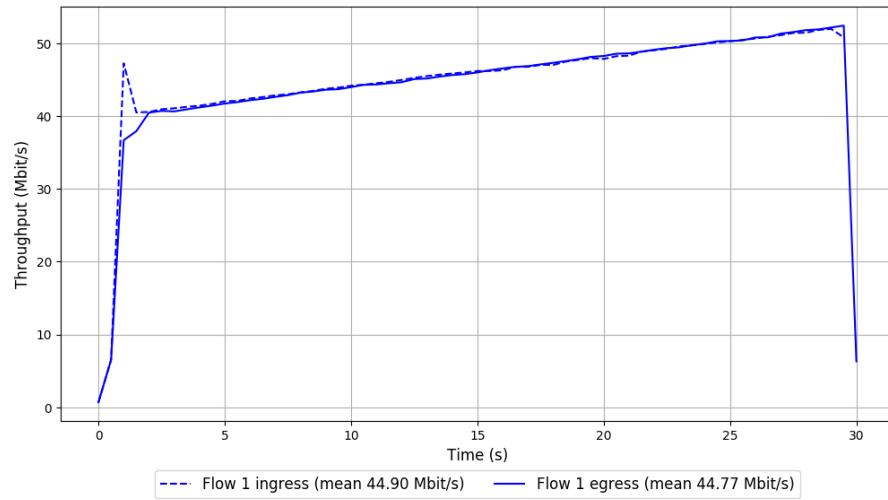


Run 3: Statistics of TCP Vegas

Start at: 2018-01-09 14:07:49
End at: 2018-01-09 14:08:19
Local clock offset: 1.031 ms
Remote clock offset: -3.225 ms

Below is generated by plot.py at 2018-01-09 23:23:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 44.77 Mbit/s
95th percentile per-packet one-way delay: 85.594 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 44.77 Mbit/s
95th percentile per-packet one-way delay: 85.594 ms
Loss rate: 0.27%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-09 15:47:54

End at: 2018-01-09 15:48:24

Local clock offset: 1.203 ms

Remote clock offset: -4.82 ms

Below is generated by plot.py at 2018-01-09 23:23:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.30 Mbit/s

95th percentile per-packet one-way delay: 82.034 ms

Loss rate: 0.27%

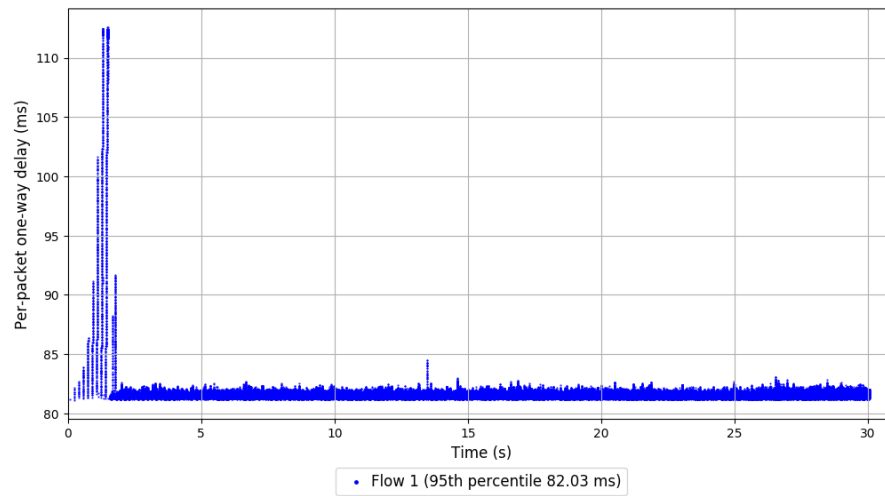
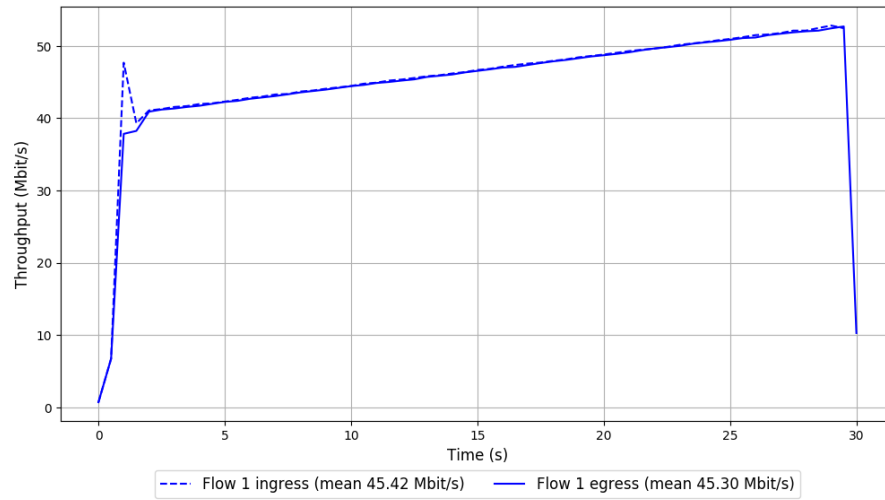
-- Flow 1:

Average throughput: 45.30 Mbit/s

95th percentile per-packet one-way delay: 82.034 ms

Loss rate: 0.27%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-09 17:13:40

End at: 2018-01-09 17:14:10

Local clock offset: 2.02 ms

Remote clock offset: -4.56 ms

Below is generated by plot.py at 2018-01-09 23:23:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.83 Mbit/s

95th percentile per-packet one-way delay: 83.471 ms

Loss rate: 0.28%

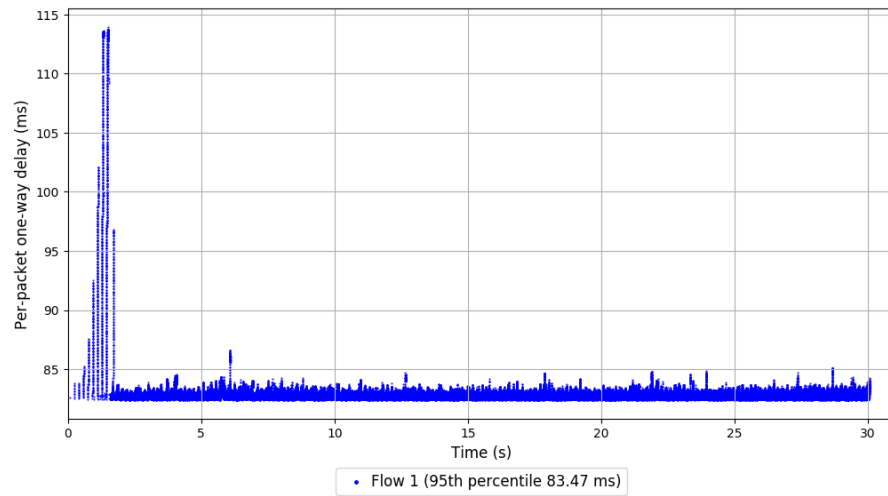
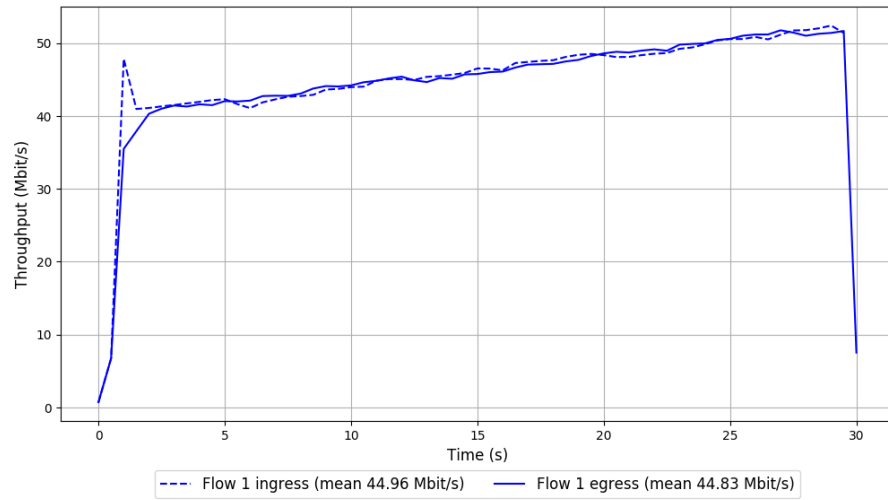
-- Flow 1:

Average throughput: 44.83 Mbit/s

95th percentile per-packet one-way delay: 83.471 ms

Loss rate: 0.28%

Run 5: Report of TCP Vegas — Data Link

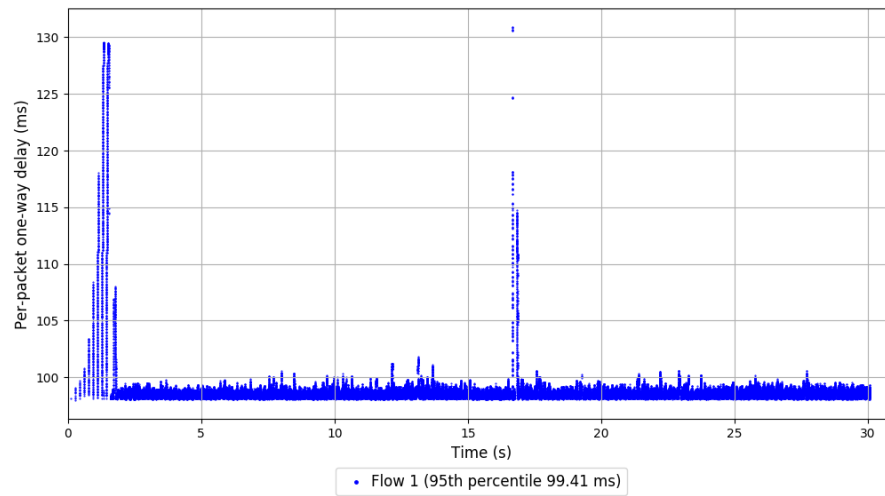
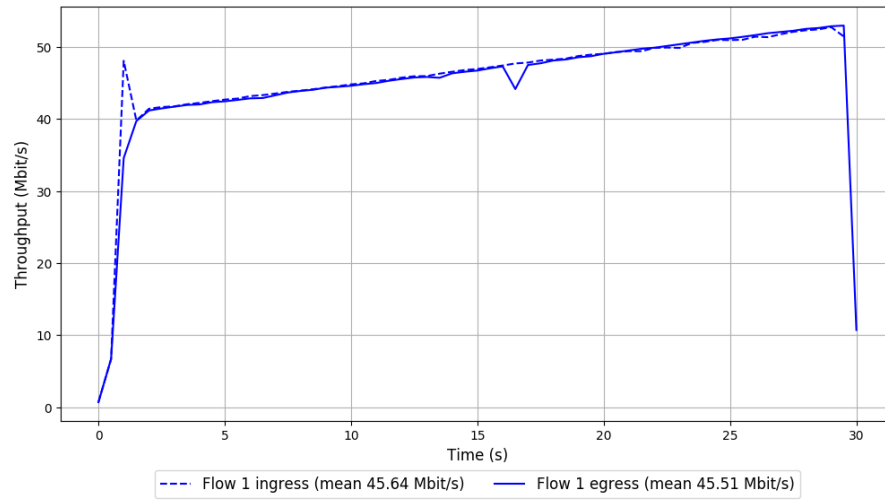


Run 6: Statistics of TCP Vegas

Start at: 2018-01-09 18:28:34
End at: 2018-01-09 18:29:04
Local clock offset: 1.436 ms
Remote clock offset: 12.331 ms

Below is generated by plot.py at 2018-01-09 23:23:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 45.51 Mbit/s
95th percentile per-packet one-way delay: 99.405 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 45.51 Mbit/s
95th percentile per-packet one-way delay: 99.405 ms
Loss rate: 0.28%

Run 6: Report of TCP Vegas — Data Link

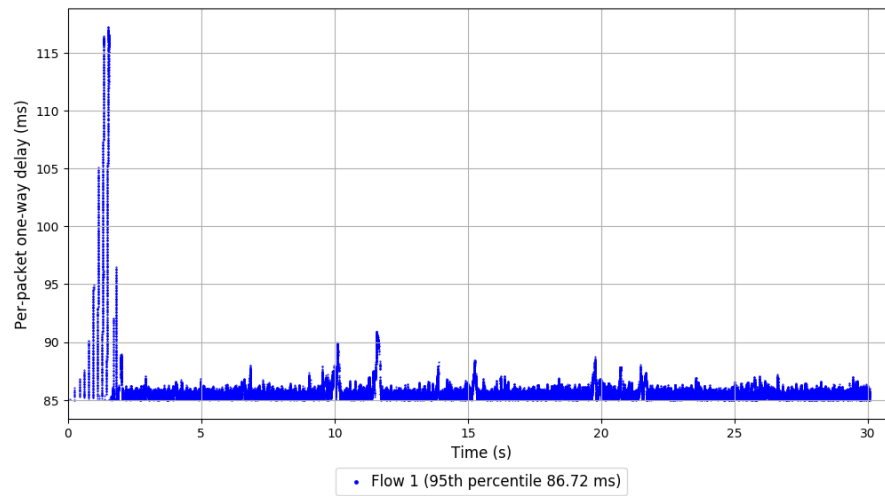
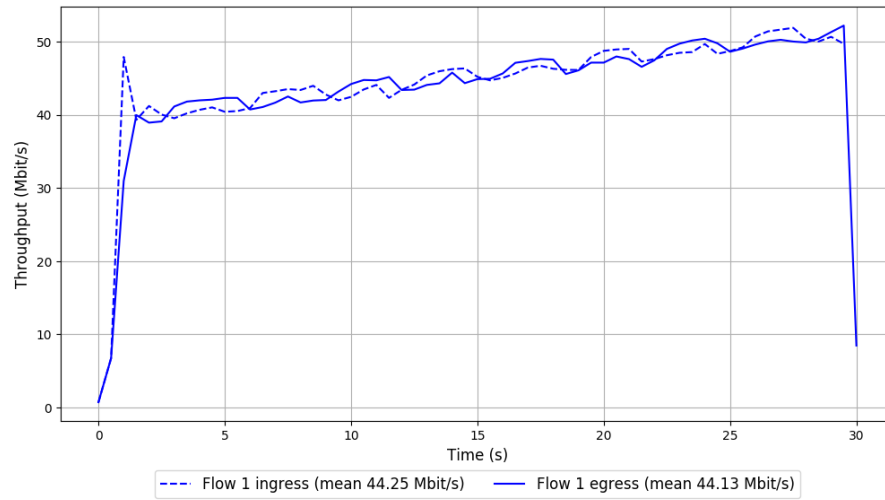


Run 7: Statistics of TCP Vegas

Start at: 2018-01-09 19:47:04
End at: 2018-01-09 19:47:34
Local clock offset: 0.277 ms
Remote clock offset: -2.675 ms

Below is generated by plot.py at 2018-01-09 23:23:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 44.13 Mbit/s
95th percentile per-packet one-way delay: 86.721 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 44.13 Mbit/s
95th percentile per-packet one-way delay: 86.721 ms
Loss rate: 0.29%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

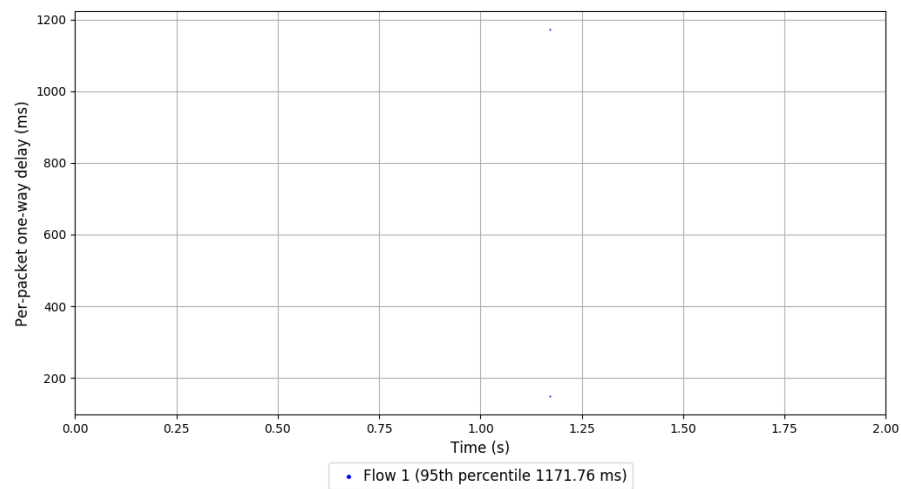
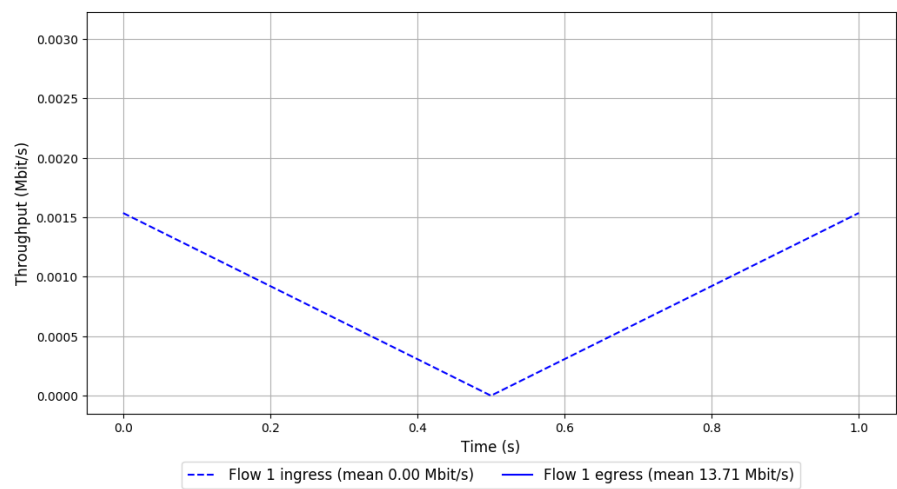
Start at: 2018-01-09 21:08:26

End at: 2018-01-09 21:08:56

Local clock offset: 0.73 ms

Remote clock offset: -4.016 ms

Run 8: Report of TCP Vegas — Data Link

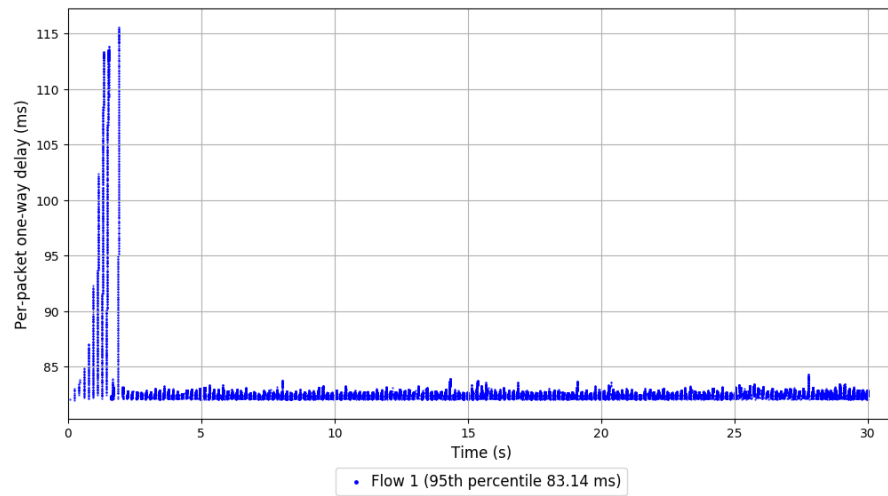
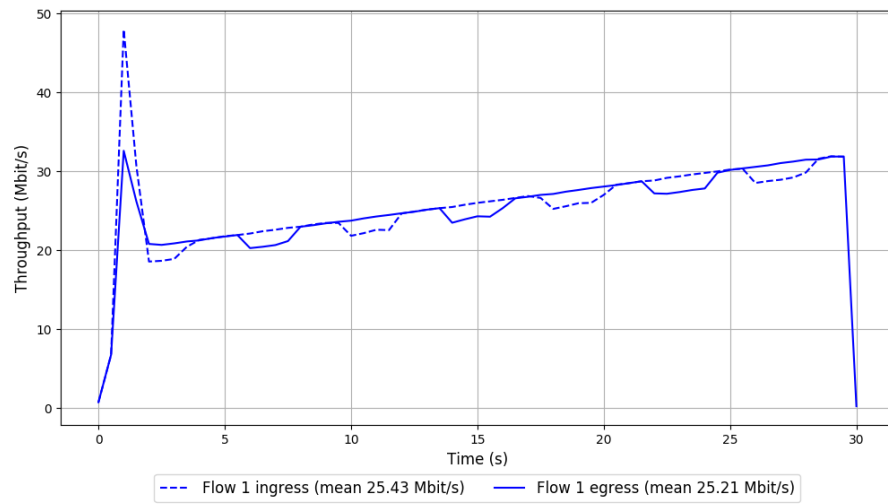


Run 9: Statistics of TCP Vegas

Start at: 2018-01-09 22:29:33
End at: 2018-01-09 22:30:03
Local clock offset: 0.727 ms
Remote clock offset: -3.947 ms

Below is generated by plot.py at 2018-01-09 23:23:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 25.21 Mbit/s
95th percentile per-packet one-way delay: 83.143 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 25.21 Mbit/s
95th percentile per-packet one-way delay: 83.143 ms
Loss rate: 0.85%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-09 22:47:45

End at: 2018-01-09 22:48:15

Local clock offset: 0.609 ms

Remote clock offset: 2.269 ms

Below is generated by plot.py at 2018-01-09 23:23:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.78 Mbit/s

95th percentile per-packet one-way delay: 87.320 ms

Loss rate: 0.28%

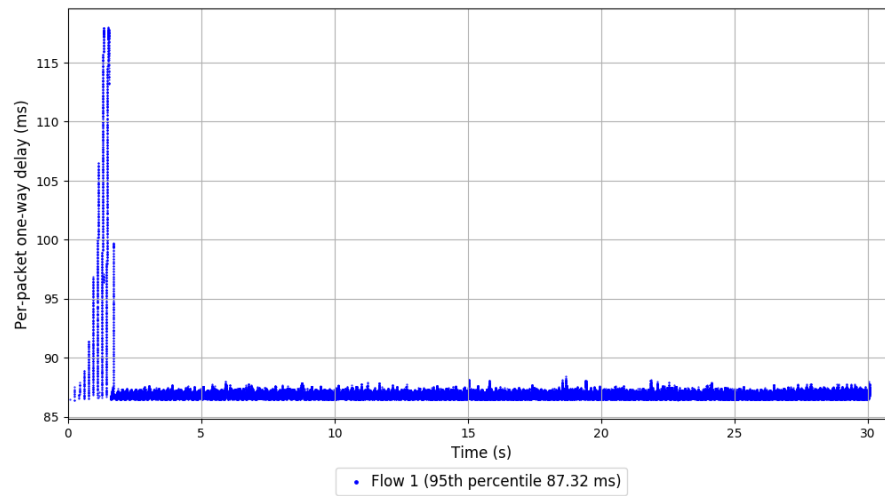
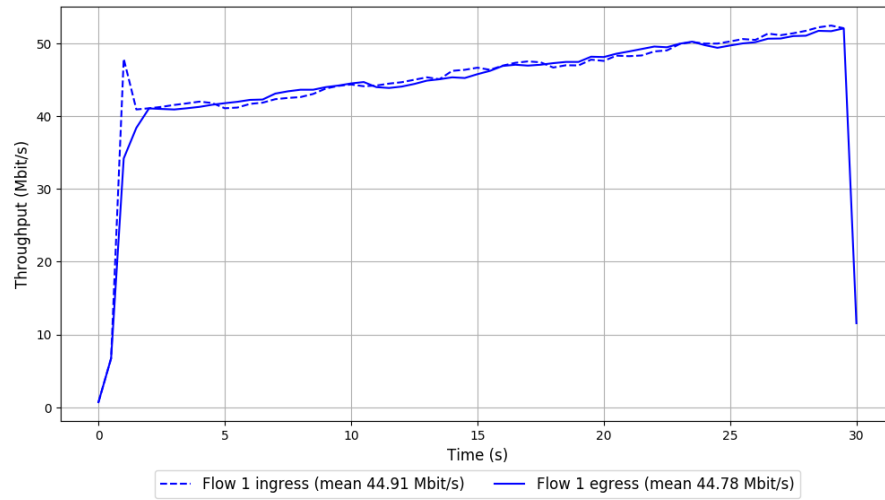
-- Flow 1:

Average throughput: 44.78 Mbit/s

95th percentile per-packet one-way delay: 87.320 ms

Loss rate: 0.28%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-09 10:18:25

End at: 2018-01-09 10:18:55

Local clock offset: -2.056 ms

Remote clock offset: 7.7 ms

Below is generated by plot.py at 2018-01-09 23:23:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.65 Mbit/s

95th percentile per-packet one-way delay: 129.671 ms

Loss rate: 48.39%

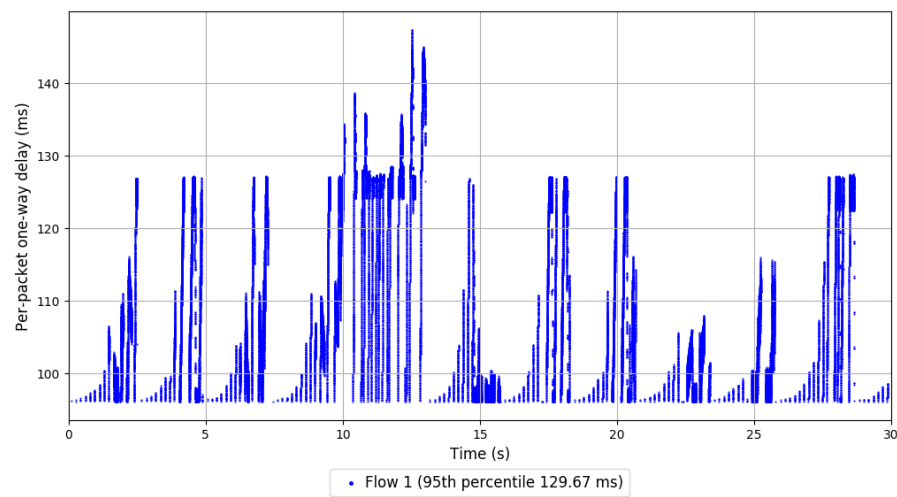
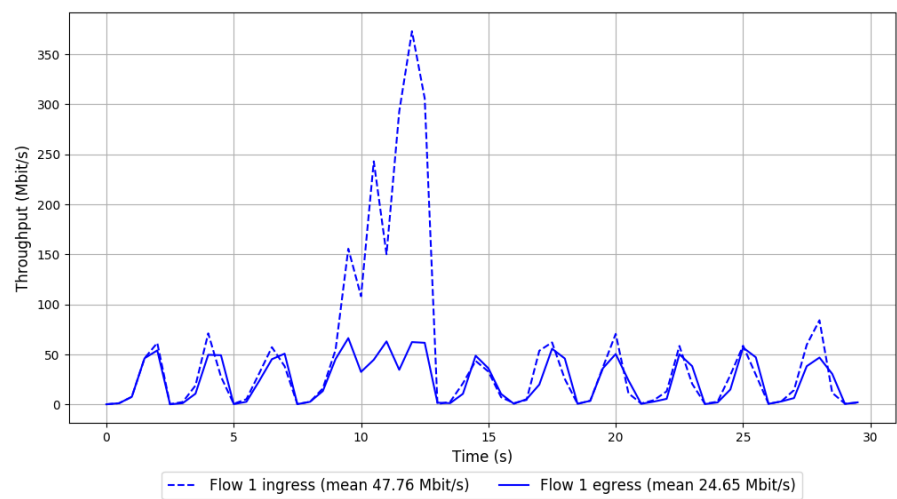
-- Flow 1:

Average throughput: 24.65 Mbit/s

95th percentile per-packet one-way delay: 129.671 ms

Loss rate: 48.39%

Run 1: Report of Verus — Data Link

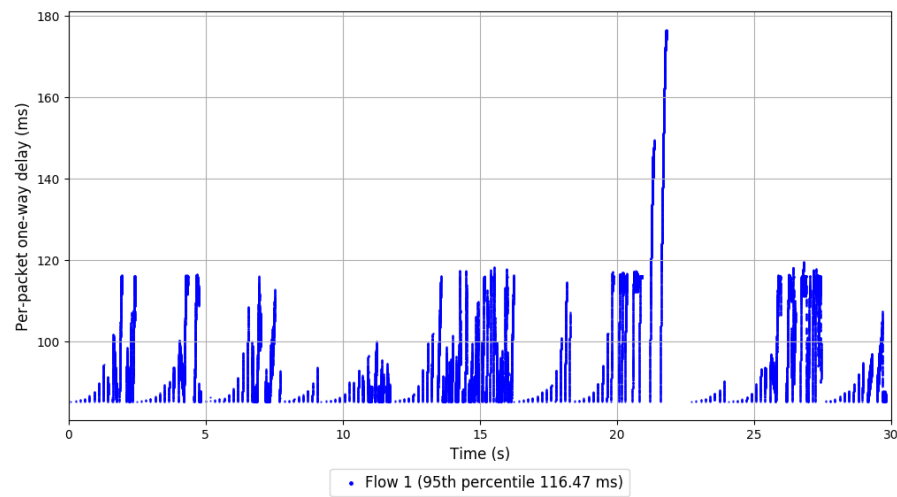
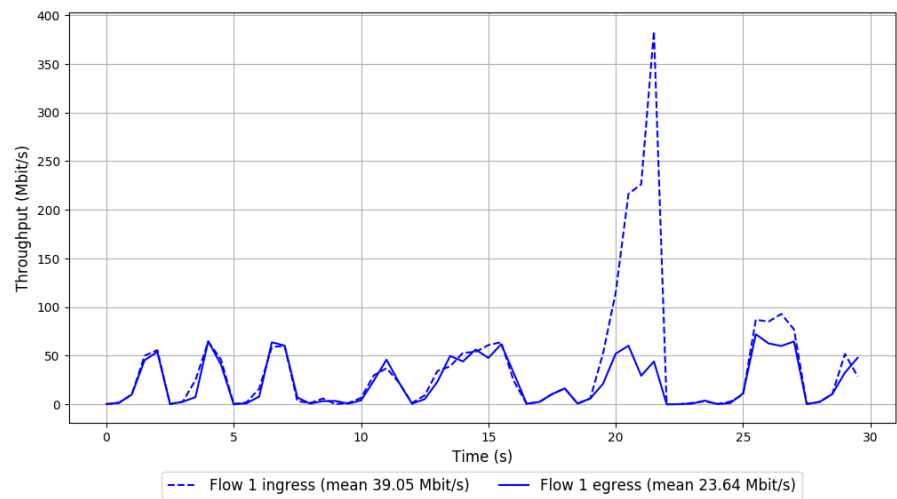


Run 2: Statistics of Verus

Start at: 2018-01-09 13:21:24
End at: 2018-01-09 13:21:54
Local clock offset: 0.398 ms
Remote clock offset: -1.025 ms

Below is generated by plot.py at 2018-01-09 23:23:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 23.64 Mbit/s
95th percentile per-packet one-way delay: 116.472 ms
Loss rate: 39.47%
-- Flow 1:
Average throughput: 23.64 Mbit/s
95th percentile per-packet one-way delay: 116.472 ms
Loss rate: 39.47%

Run 2: Report of Verus — Data Link

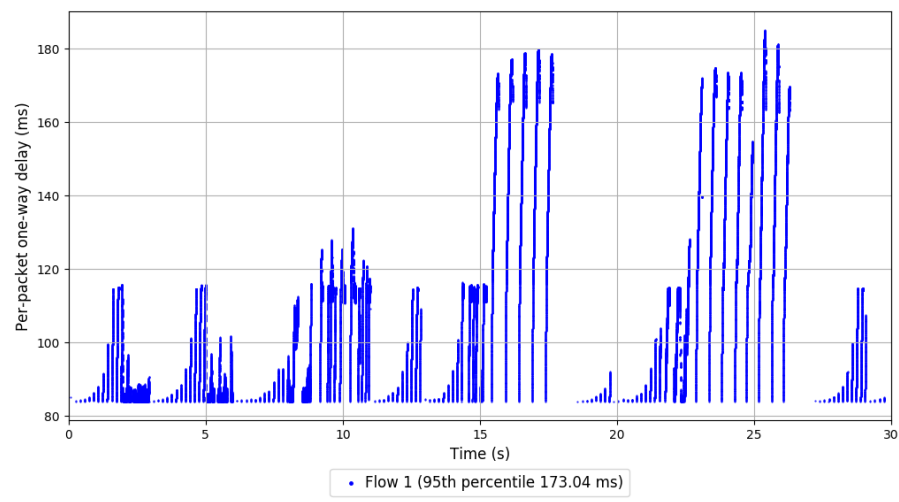
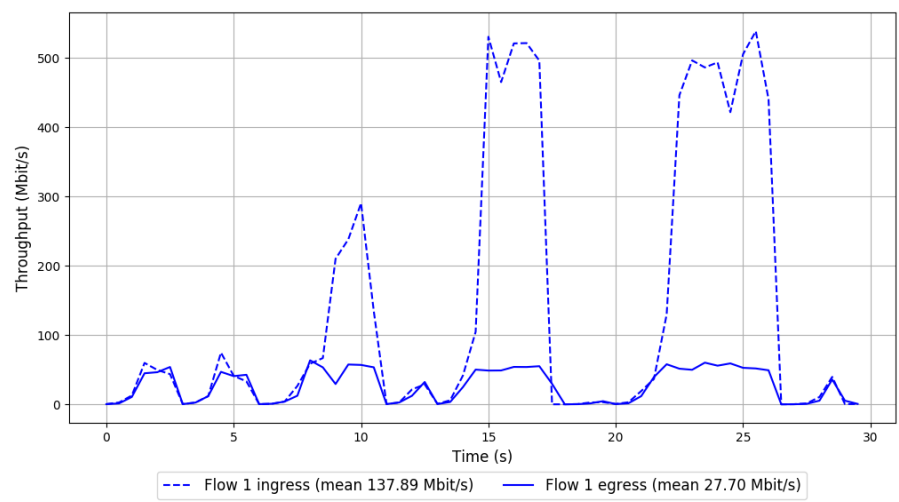


Run 3: Statistics of Verus

Start at: 2018-01-09 15:32:01
End at: 2018-01-09 15:32:31
Local clock offset: 1.185 ms
Remote clock offset: -2.812 ms

Below is generated by plot.py at 2018-01-09 23:23:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 27.70 Mbit/s
95th percentile per-packet one-way delay: 173.036 ms
Loss rate: 79.91%
-- Flow 1:
Average throughput: 27.70 Mbit/s
95th percentile per-packet one-way delay: 173.036 ms
Loss rate: 79.91%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-09 16:50:28

End at: 2018-01-09 16:50:58

Local clock offset: 1.986 ms

Remote clock offset: -4.75 ms

Below is generated by plot.py at 2018-01-09 23:26:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.33 Mbit/s

95th percentile per-packet one-way delay: 160.372 ms

Loss rate: 88.22%

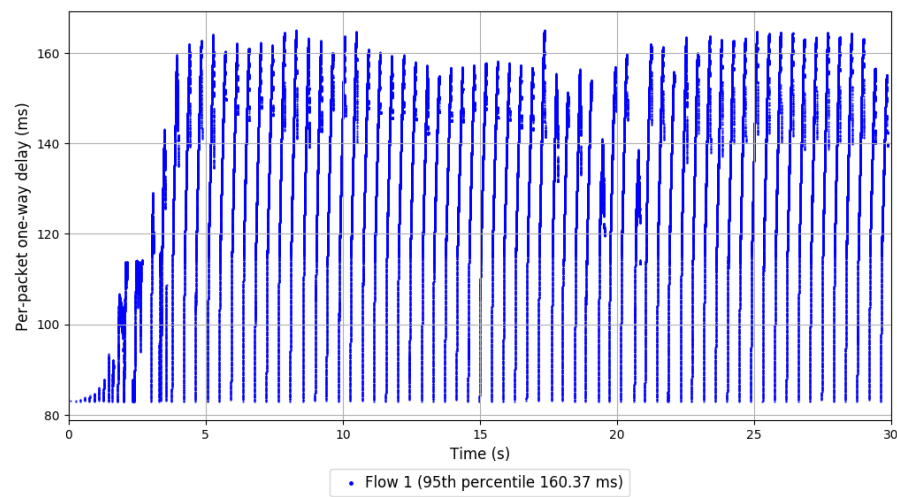
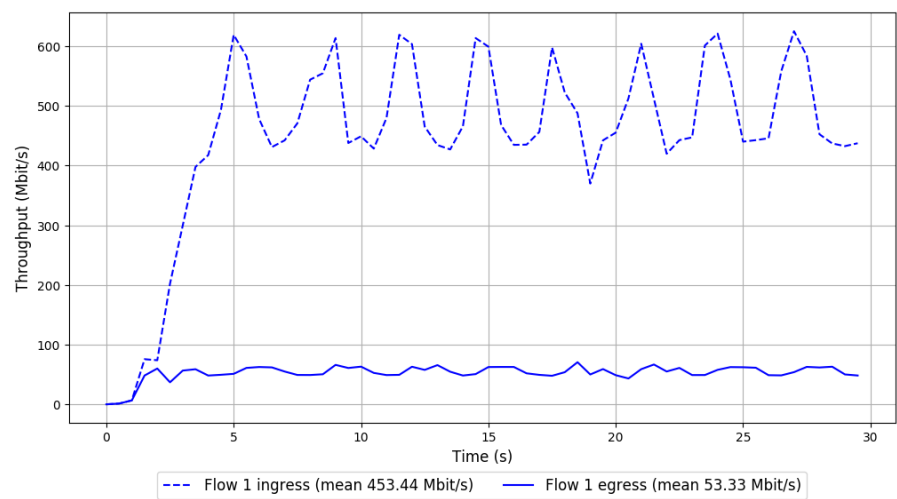
-- Flow 1:

Average throughput: 53.33 Mbit/s

95th percentile per-packet one-way delay: 160.372 ms

Loss rate: 88.22%

Run 4: Report of Verus — Data Link

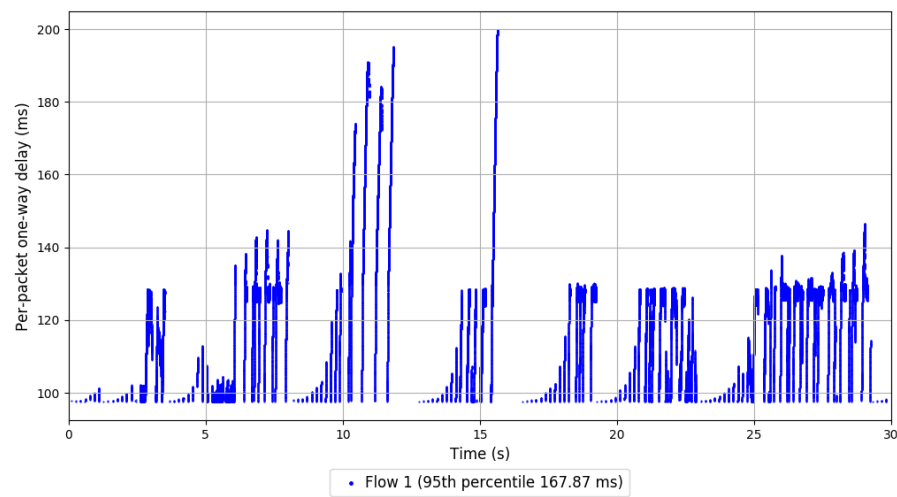
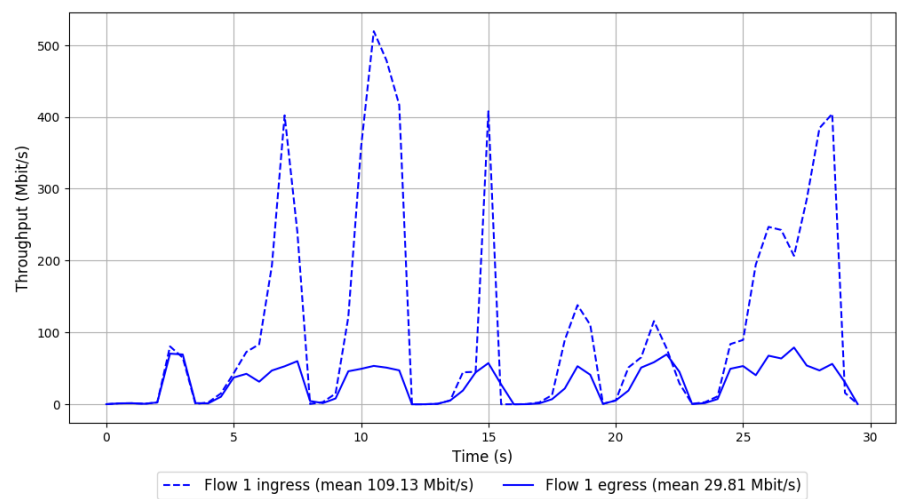


Run 5: Statistics of Verus

Start at: 2018-01-09 18:11:06
End at: 2018-01-09 18:11:36
Local clock offset: 1.856 ms
Remote clock offset: 11.414 ms

Below is generated by plot.py at 2018-01-09 23:26:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 29.81 Mbit/s
95th percentile per-packet one-way delay: 167.872 ms
Loss rate: 72.68%
-- Flow 1:
Average throughput: 29.81 Mbit/s
95th percentile per-packet one-way delay: 167.872 ms
Loss rate: 72.68%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-09 19:26:14

End at: 2018-01-09 19:26:44

Local clock offset: 0.475 ms

Remote clock offset: 2.978 ms

Below is generated by plot.py at 2018-01-09 23:26:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.99 Mbit/s

95th percentile per-packet one-way delay: 119.367 ms

Loss rate: 28.56%

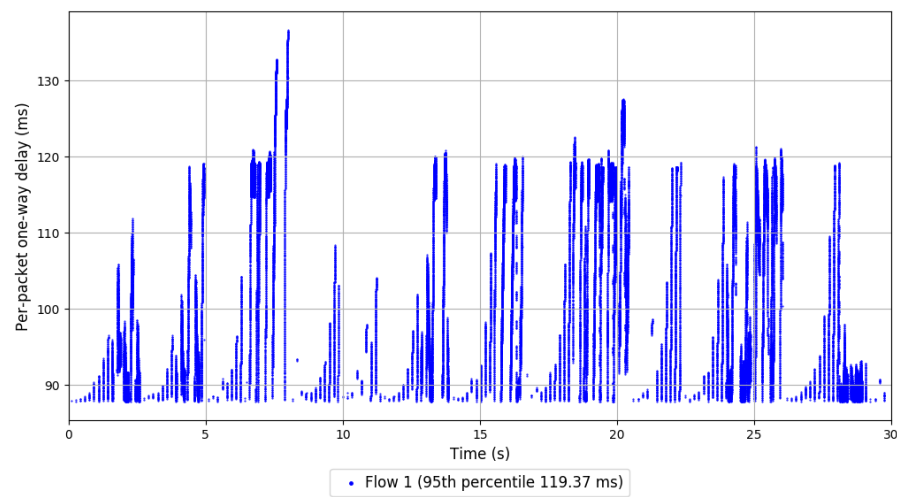
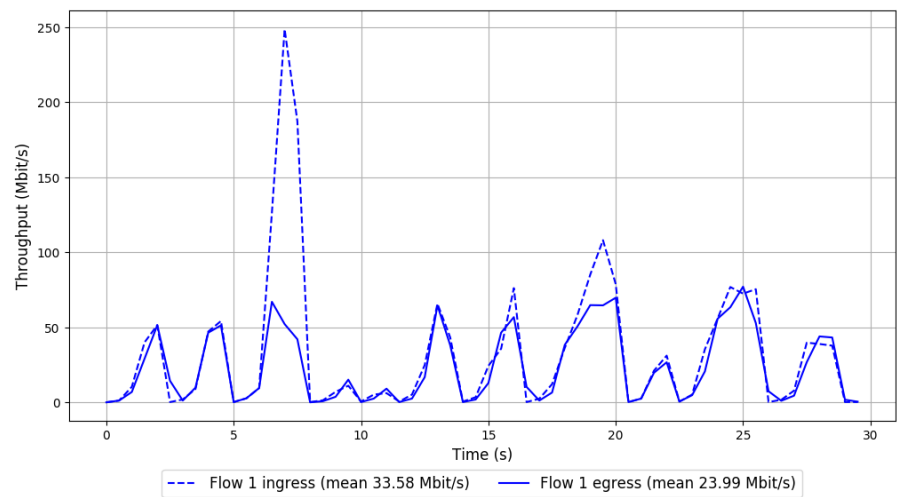
-- Flow 1:

Average throughput: 23.99 Mbit/s

95th percentile per-packet one-way delay: 119.367 ms

Loss rate: 28.56%

Run 6: Report of Verus — Data Link

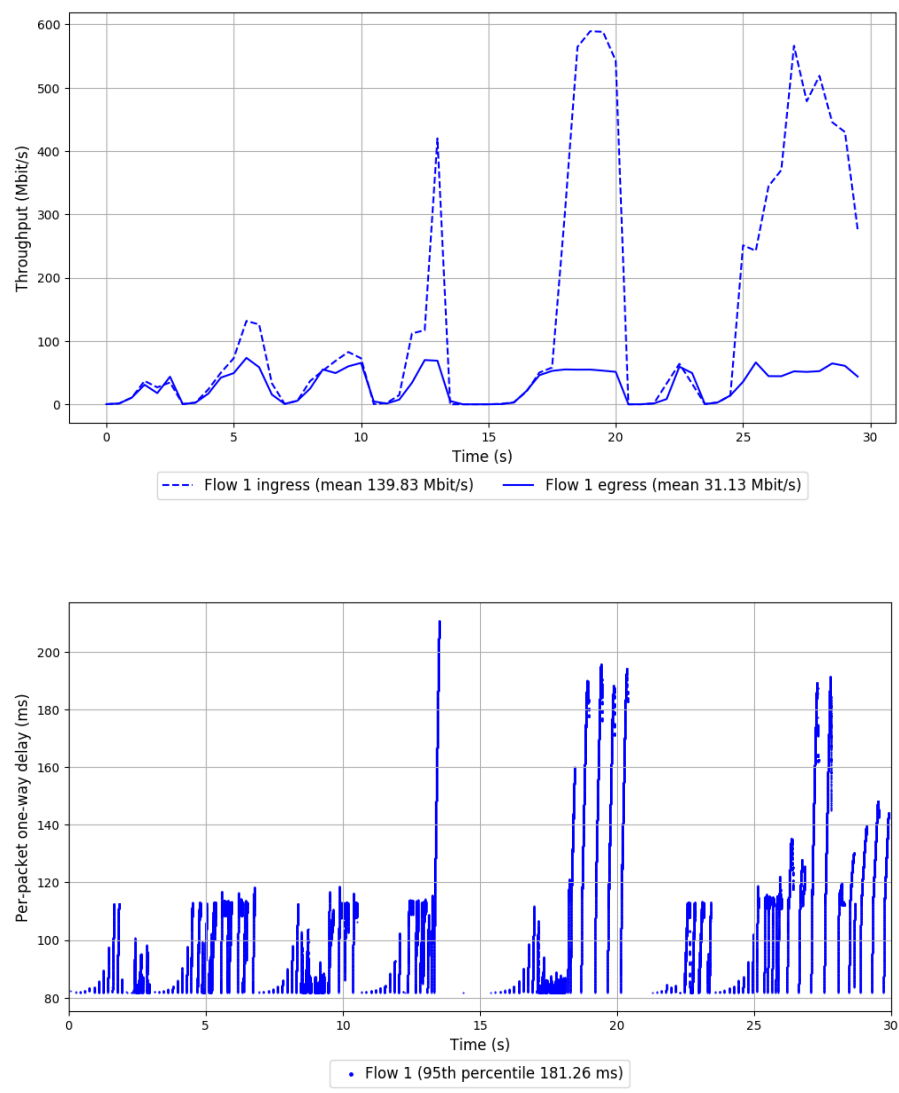


Run 7: Statistics of Verus

Start at: 2018-01-09 20:48:01
End at: 2018-01-09 20:48:31
Local clock offset: 0.422 ms
Remote clock offset: -5.162 ms

Below is generated by plot.py at 2018-01-09 23:26:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 31.13 Mbit/s
95th percentile per-packet one-way delay: 181.258 ms
Loss rate: 77.69%
-- Flow 1:
Average throughput: 31.13 Mbit/s
95th percentile per-packet one-way delay: 181.258 ms
Loss rate: 77.69%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-09 22:10:11

End at: 2018-01-09 22:10:41

Local clock offset: 0.776 ms

Remote clock offset: 1.982 ms

Below is generated by plot.py at 2018-01-09 23:26:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.52 Mbit/s

95th percentile per-packet one-way delay: 168.052 ms

Loss rate: 80.21%

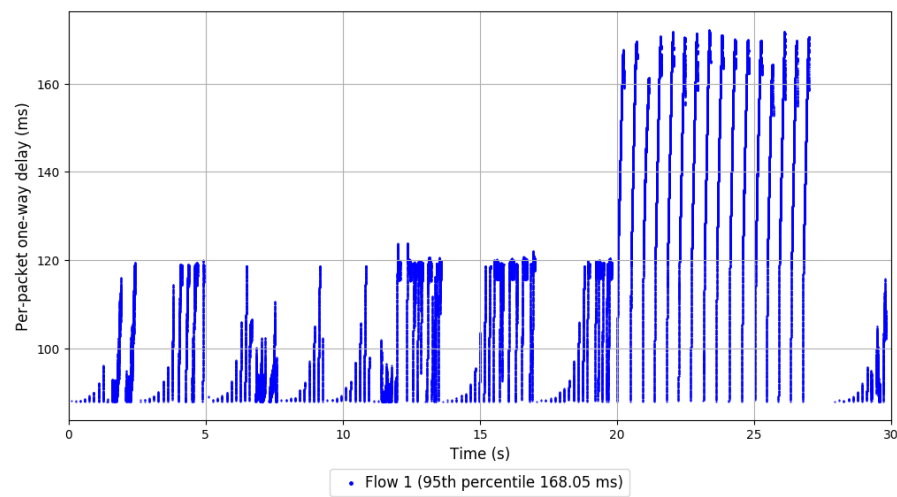
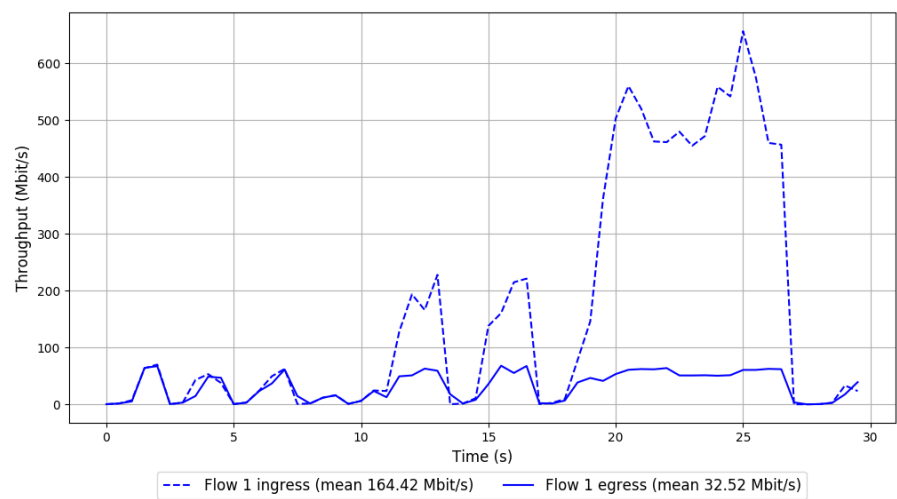
-- Flow 1:

Average throughput: 32.52 Mbit/s

95th percentile per-packet one-way delay: 168.052 ms

Loss rate: 80.21%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-09 22:42:56

End at: 2018-01-09 22:43:26

Local clock offset: 0.707 ms

Remote clock offset: 1.41 ms

Below is generated by plot.py at 2018-01-09 23:26:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.64 Mbit/s

95th percentile per-packet one-way delay: 115.783 ms

Loss rate: 10.05%

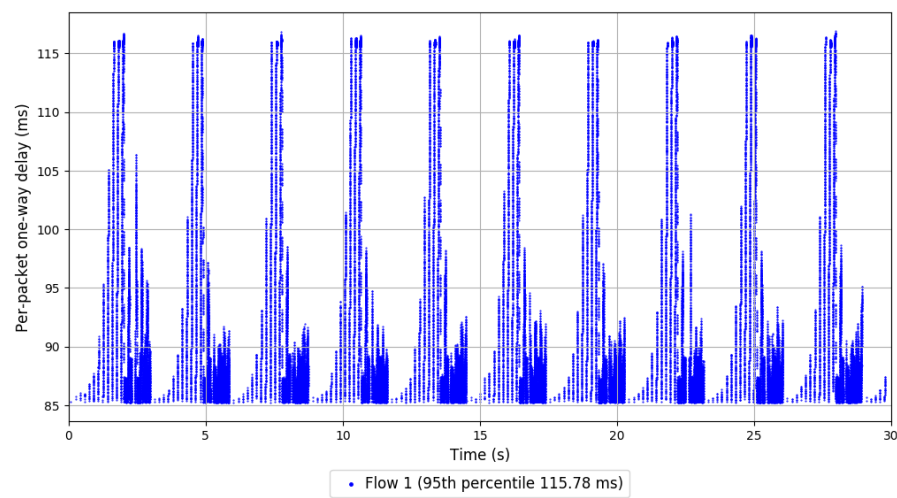
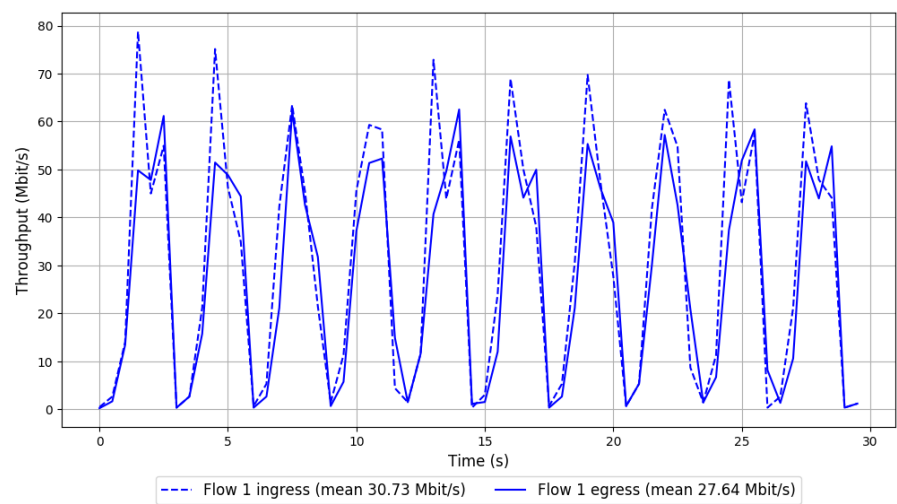
-- Flow 1:

Average throughput: 27.64 Mbit/s

95th percentile per-packet one-way delay: 115.783 ms

Loss rate: 10.05%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-09 23:01:07

End at: 2018-01-09 23:01:37

Local clock offset: 0.573 ms

Remote clock offset: 1.573 ms

Below is generated by plot.py at 2018-01-09 23:26:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.67 Mbit/s

95th percentile per-packet one-way delay: 116.911 ms

Loss rate: 9.32%

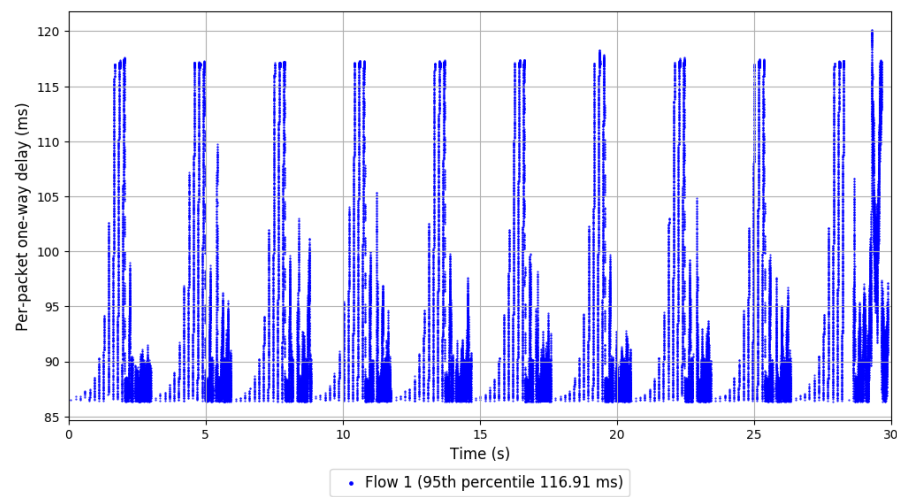
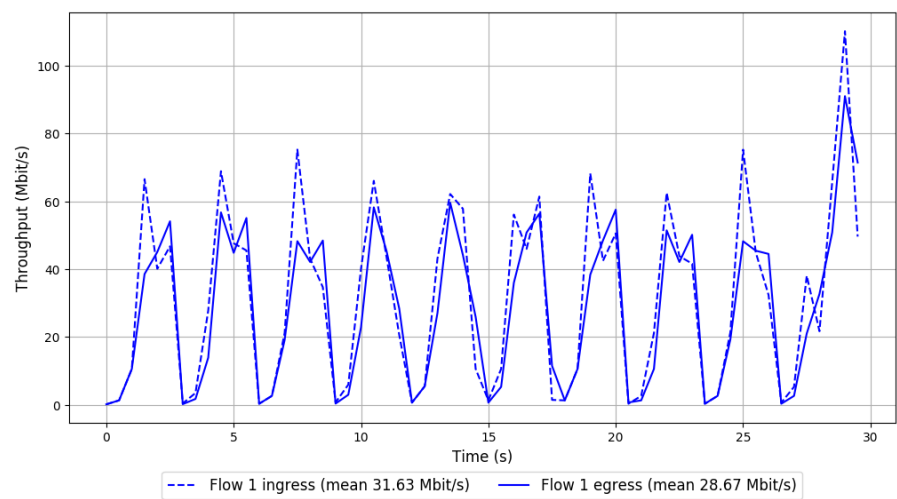
-- Flow 1:

Average throughput: 28.67 Mbit/s

95th percentile per-packet one-way delay: 116.911 ms

Loss rate: 9.32%

Run 10: Report of Verus — Data Link

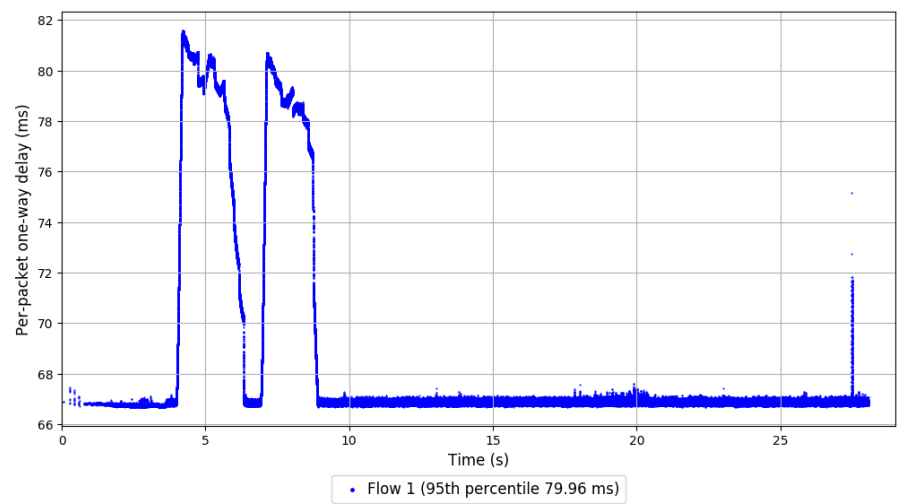
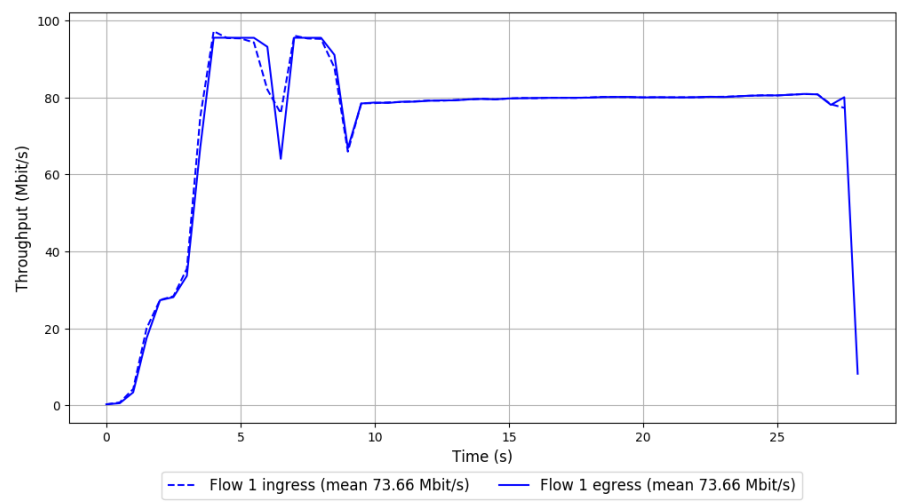


Run 1: Statistics of Copa

Start at: 2018-01-09 08:23:50
End at: 2018-01-09 08:24:20
Local clock offset: -1.739 ms
Remote clock offset: -19.787 ms

Below is generated by plot.py at 2018-01-09 23:27:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.66 Mbit/s
95th percentile per-packet one-way delay: 79.963 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 73.66 Mbit/s
95th percentile per-packet one-way delay: 79.963 ms
Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-09 11:14:14

End at: 2018-01-09 11:14:44

Local clock offset: -1.532 ms

Remote clock offset: -5.33 ms

Below is generated by plot.py at 2018-01-09 23:27:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.61 Mbit/s

95th percentile per-packet one-way delay: 87.958 ms

Loss rate: 0.00%

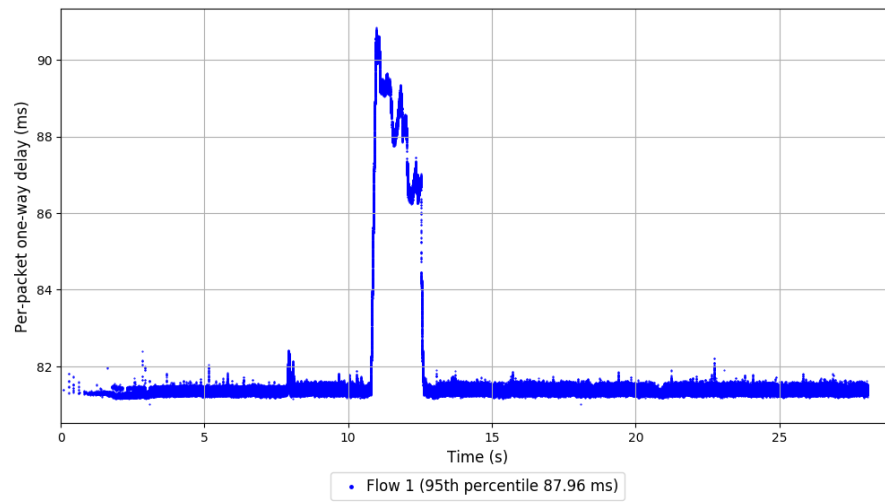
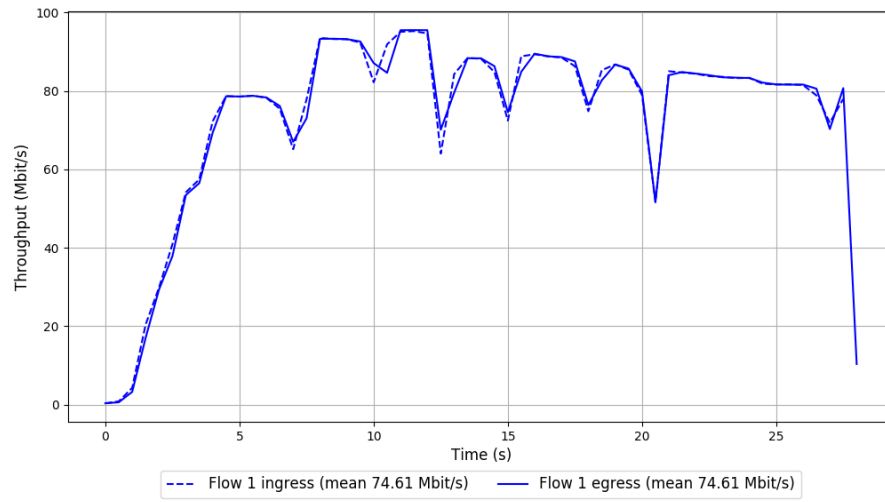
-- Flow 1:

Average throughput: 74.61 Mbit/s

95th percentile per-packet one-way delay: 87.958 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link

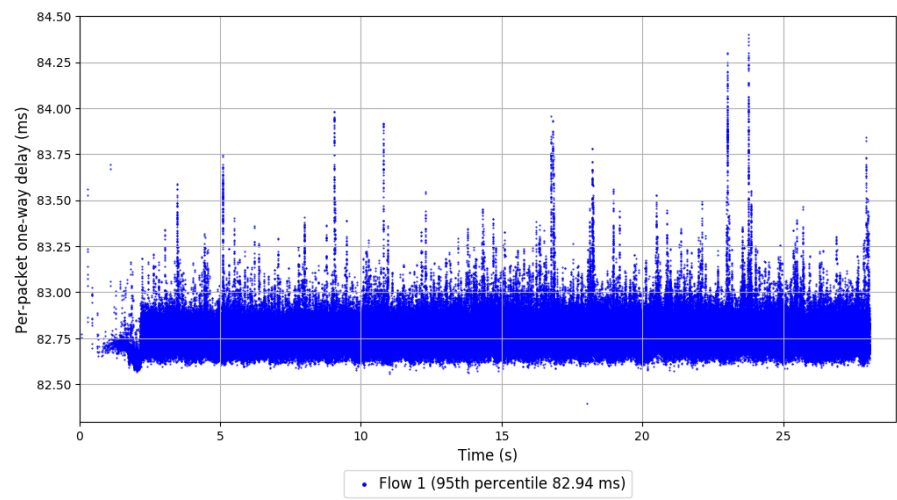
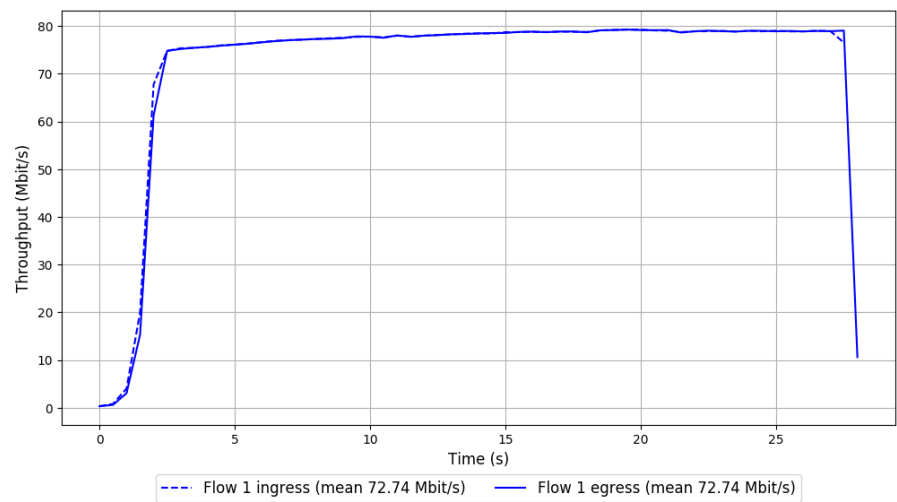


Run 3: Statistics of Copa

Start at: 2018-01-09 14:23:56
End at: 2018-01-09 14:24:26
Local clock offset: 1.284 ms
Remote clock offset: -5.422 ms

Below is generated by plot.py at 2018-01-09 23:27:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.74 Mbit/s
95th percentile per-packet one-way delay: 82.935 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 72.74 Mbit/s
95th percentile per-packet one-way delay: 82.935 ms
Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-09 15:56:01

End at: 2018-01-09 15:56:31

Local clock offset: 1.203 ms

Remote clock offset: -5.98 ms

Below is generated by plot.py at 2018-01-09 23:27:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.95 Mbit/s

95th percentile per-packet one-way delay: 80.378 ms

Loss rate: 0.00%

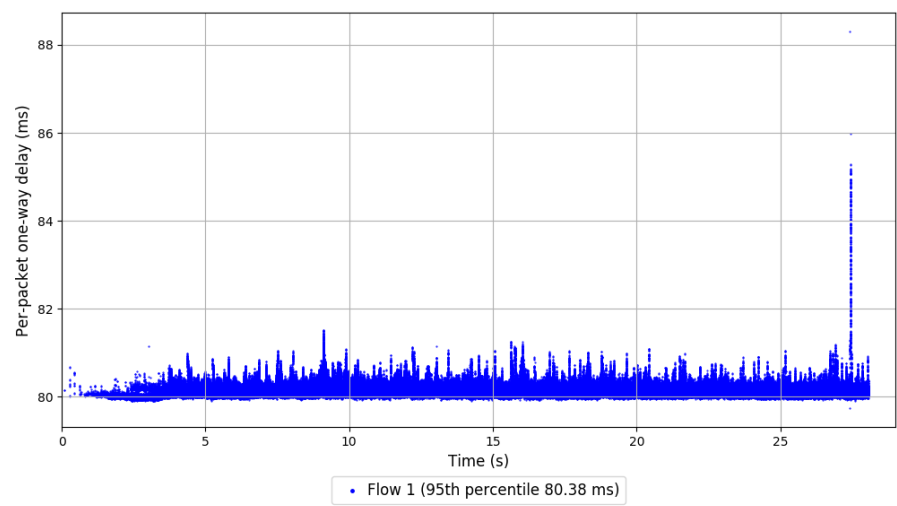
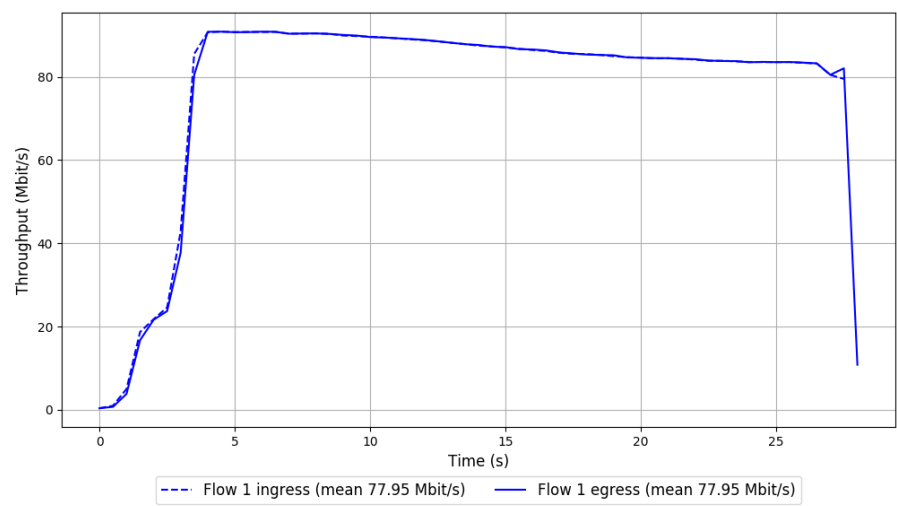
-- Flow 1:

Average throughput: 77.95 Mbit/s

95th percentile per-packet one-way delay: 80.378 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link

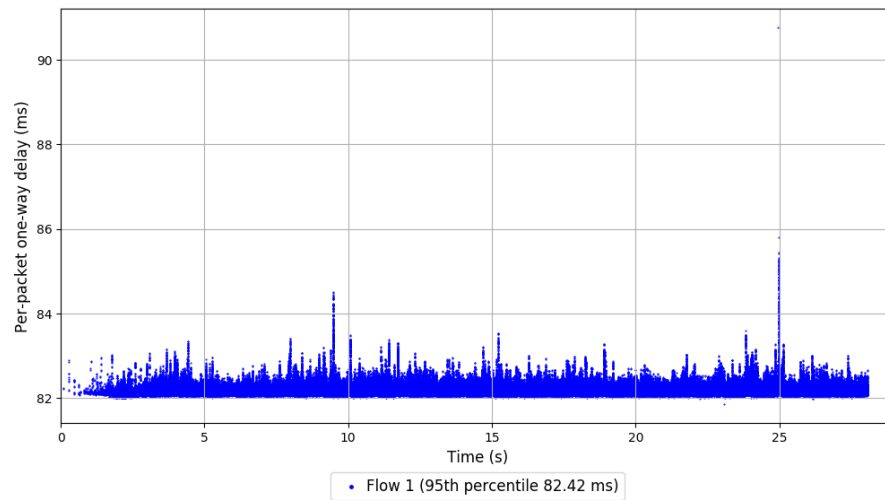
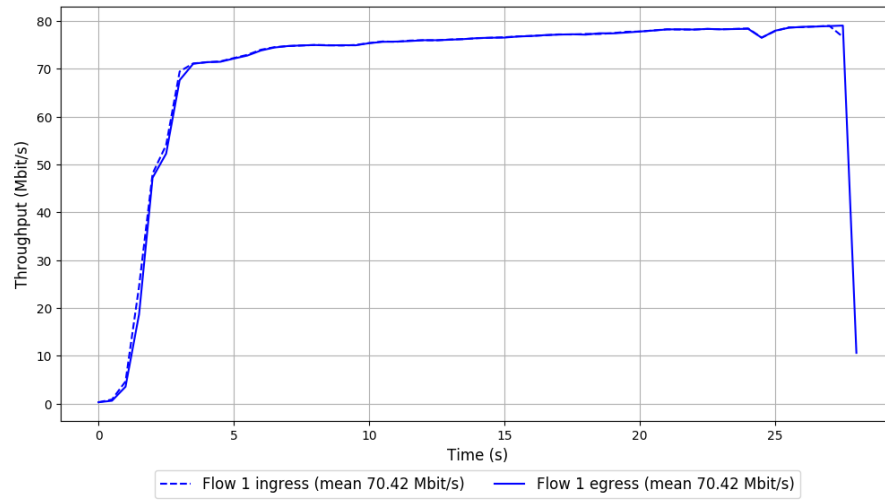


Run 5: Statistics of Copa

Start at: 2018-01-09 17:19:40
End at: 2018-01-09 17:20:10
Local clock offset: 2.091 ms
Remote clock offset: -5.091 ms

Below is generated by plot.py at 2018-01-09 23:27:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 70.42 Mbit/s
95th percentile per-packet one-way delay: 82.422 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 70.42 Mbit/s
95th percentile per-packet one-way delay: 82.422 ms
Loss rate: 0.00%

Run 5: Report of Copa — Data Link

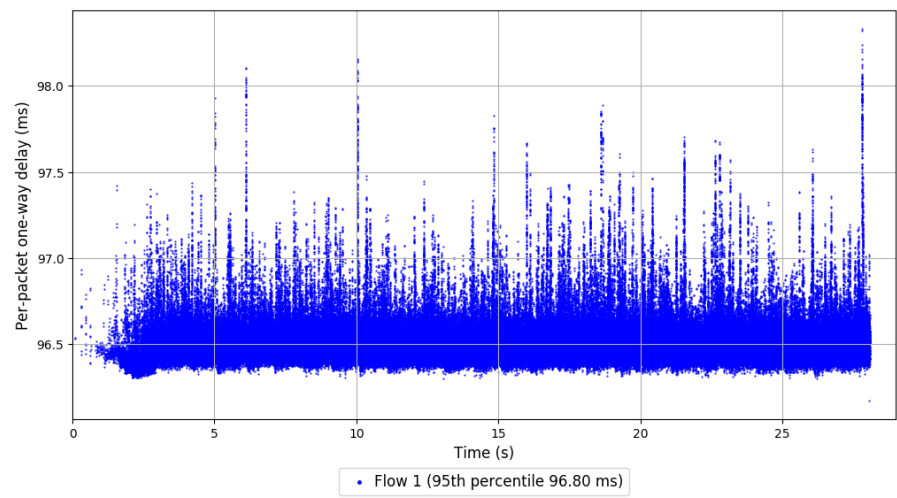
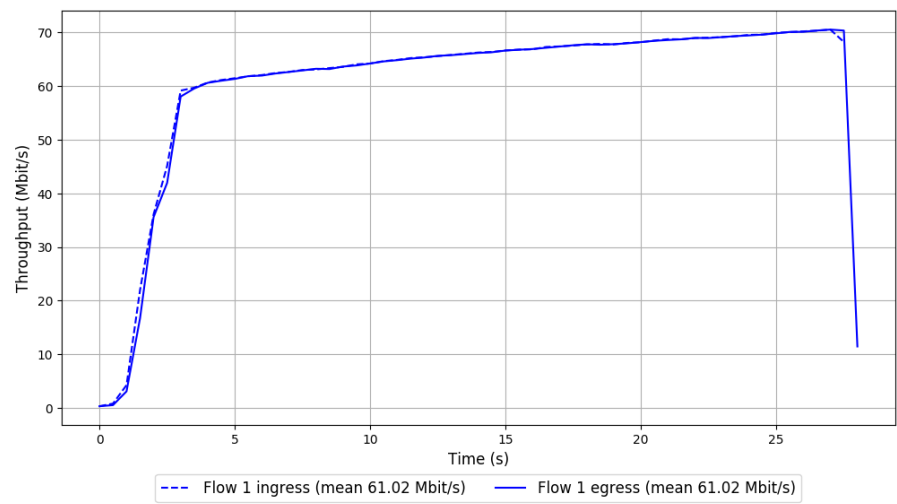


Run 6: Statistics of Copa

Start at: 2018-01-09 18:35:01
End at: 2018-01-09 18:35:31
Local clock offset: 1.276 ms
Remote clock offset: 12.291 ms

Below is generated by plot.py at 2018-01-09 23:27:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 61.02 Mbit/s
95th percentile per-packet one-way delay: 96.804 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.02 Mbit/s
95th percentile per-packet one-way delay: 96.804 ms
Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-09 19:55:19

End at: 2018-01-09 19:55:49

Local clock offset: 0.374 ms

Remote clock offset: 0.439 ms

Below is generated by plot.py at 2018-01-09 23:27:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.62 Mbit/s

95th percentile per-packet one-way delay: 87.685 ms

Loss rate: 0.00%

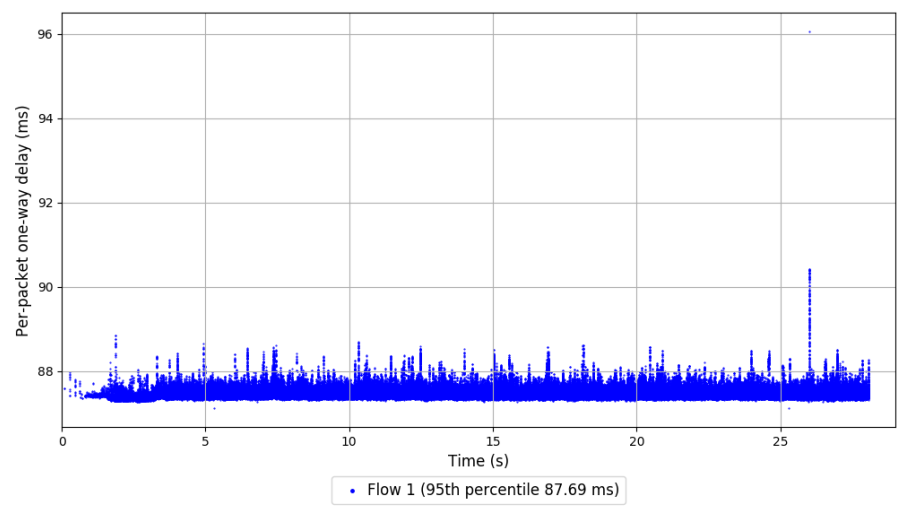
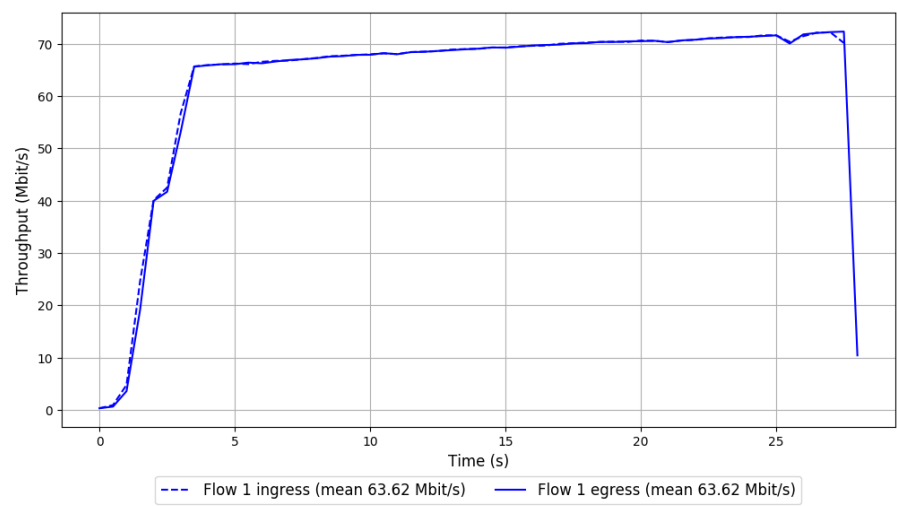
-- Flow 1:

Average throughput: 63.62 Mbit/s

95th percentile per-packet one-way delay: 87.685 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-09 21:13:19

End at: 2018-01-09 21:13:49

Local clock offset: 0.86 ms

Remote clock offset: 0.914 ms

Below is generated by plot.py at 2018-01-09 23:30:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.50 Mbit/s

95th percentile per-packet one-way delay: 86.196 ms

Loss rate: 0.00%

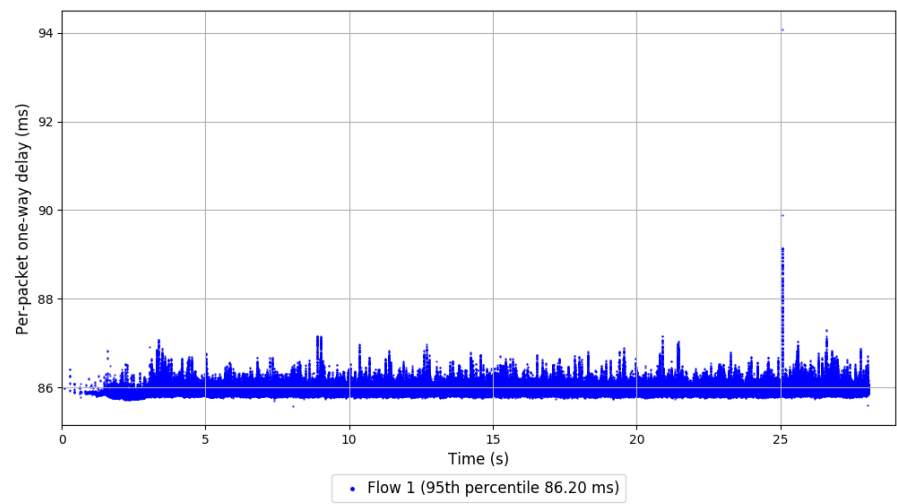
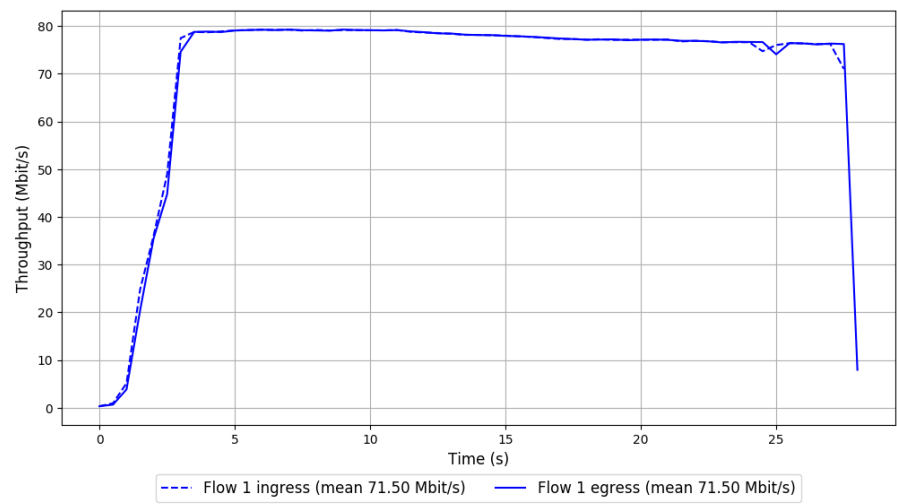
-- Flow 1:

Average throughput: 71.50 Mbit/s

95th percentile per-packet one-way delay: 86.196 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-09 22:33:05

End at: 2018-01-09 22:33:35

Local clock offset: 0.703 ms

Remote clock offset: 1.739 ms

Below is generated by plot.py at 2018-01-09 23:31:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.29 Mbit/s

95th percentile per-packet one-way delay: 90.711 ms

Loss rate: 0.00%

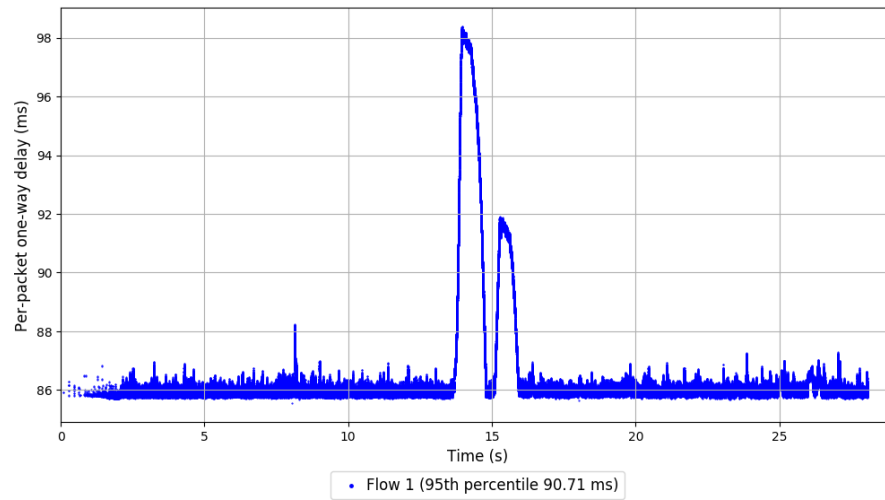
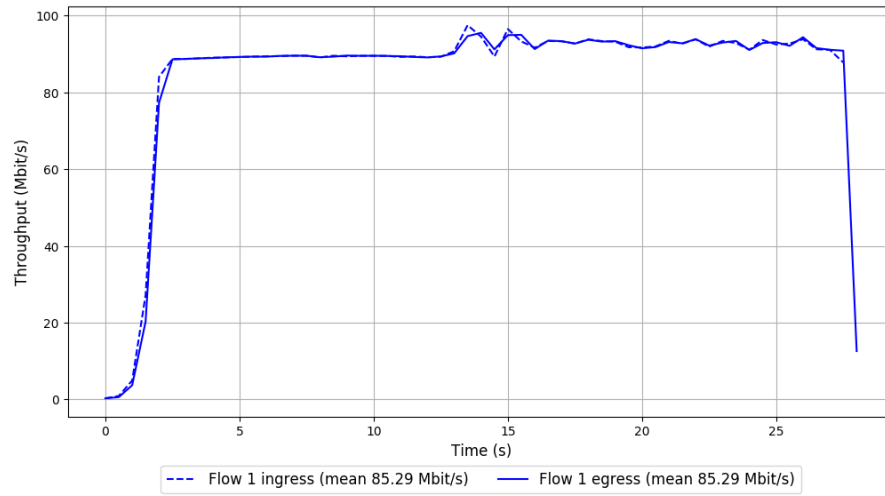
-- Flow 1:

Average throughput: 85.29 Mbit/s

95th percentile per-packet one-way delay: 90.711 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link

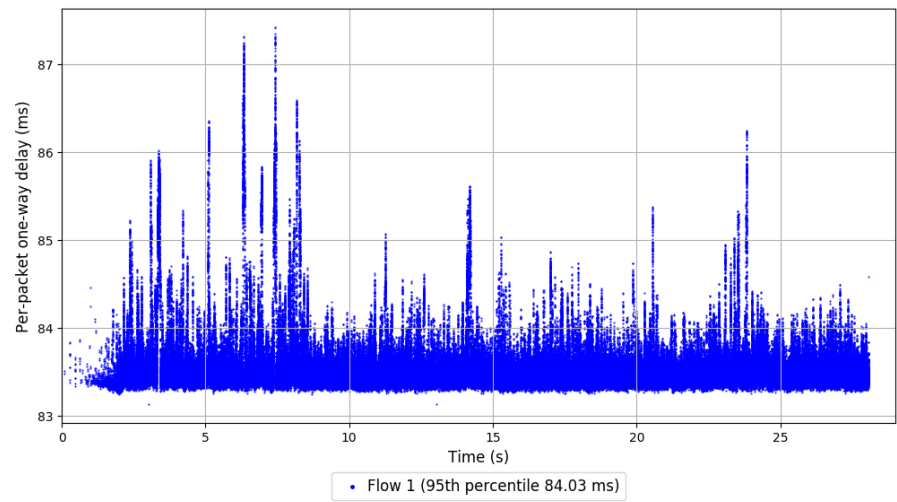
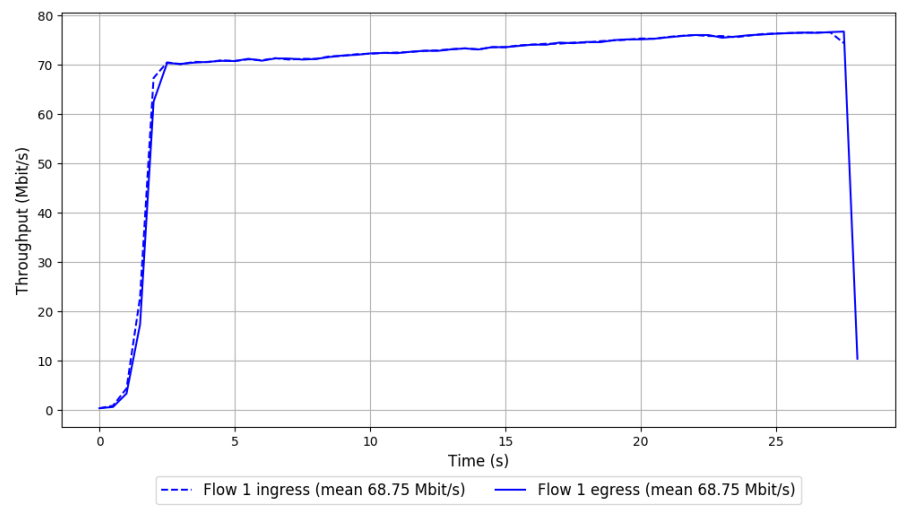


Run 10: Statistics of Copa

Start at: 2018-01-09 22:51:18
End at: 2018-01-09 22:51:48
Local clock offset: 0.641 ms
Remote clock offset: -3.245 ms

Below is generated by plot.py at 2018-01-09 23:31:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 68.75 Mbit/s
95th percentile per-packet one-way delay: 84.034 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 68.75 Mbit/s
95th percentile per-packet one-way delay: 84.034 ms
Loss rate: 0.00%

Run 10: Report of Copa — Data Link

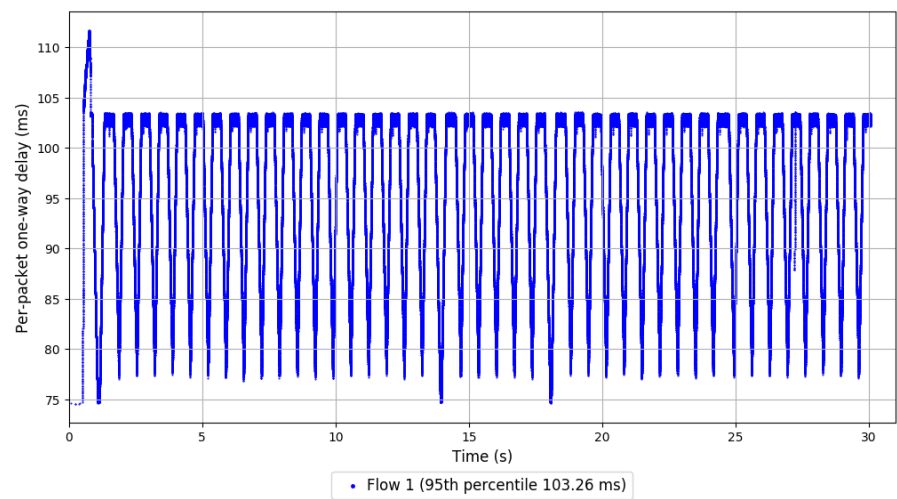
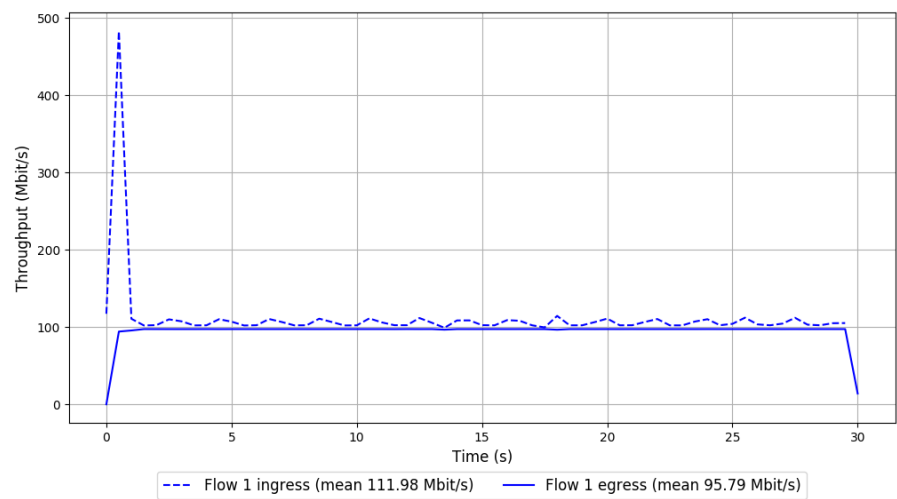


Run 1: Statistics of FillP

Start at: 2018-01-09 09:47:52
End at: 2018-01-09 09:48:22
Local clock offset: -2.36 ms
Remote clock offset: -13.725 ms

Below is generated by plot.py at 2018-01-09 23:31:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.79 Mbit/s
95th percentile per-packet one-way delay: 103.257 ms
Loss rate: 14.38%
-- Flow 1:
Average throughput: 95.79 Mbit/s
95th percentile per-packet one-way delay: 103.257 ms
Loss rate: 14.38%

Run 1: Report of FillP — Data Link

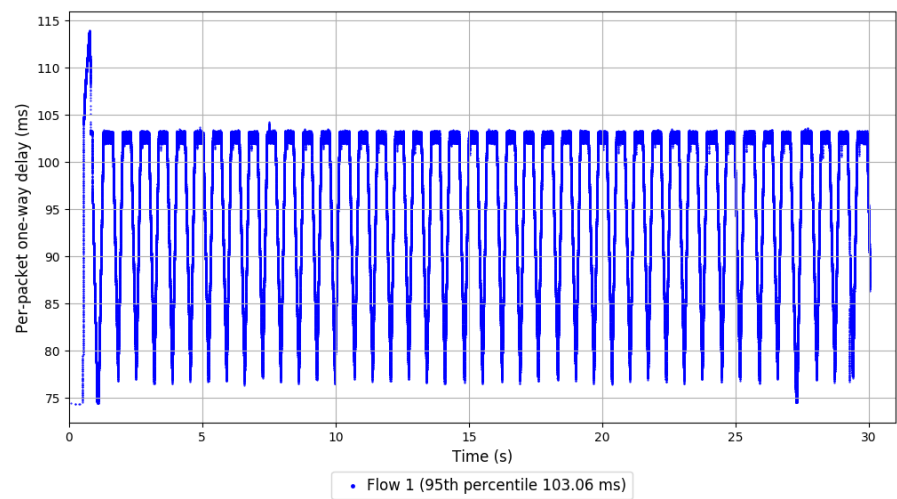
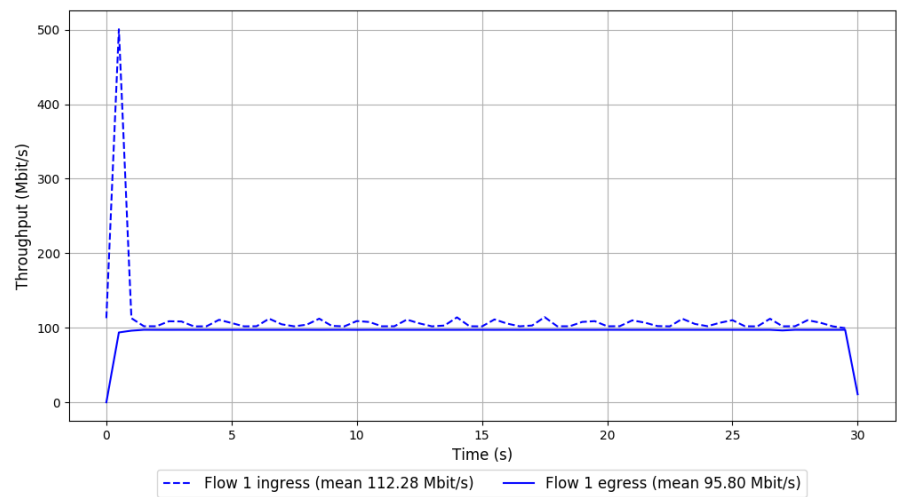


Run 2: Statistics of FillP

Start at: 2018-01-09 12:42:33
End at: 2018-01-09 12:43:03
Local clock offset: -0.325 ms
Remote clock offset: -14.393 ms

Below is generated by plot.py at 2018-01-09 23:31:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.80 Mbit/s
95th percentile per-packet one-way delay: 103.061 ms
Loss rate: 14.64%
-- Flow 1:
Average throughput: 95.80 Mbit/s
95th percentile per-packet one-way delay: 103.061 ms
Loss rate: 14.64%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-09 15:23:35

End at: 2018-01-09 15:24:05

Local clock offset: 1.265 ms

Remote clock offset: -3.628 ms

Run 3: Report of FillP — Data Link

Figure is missing

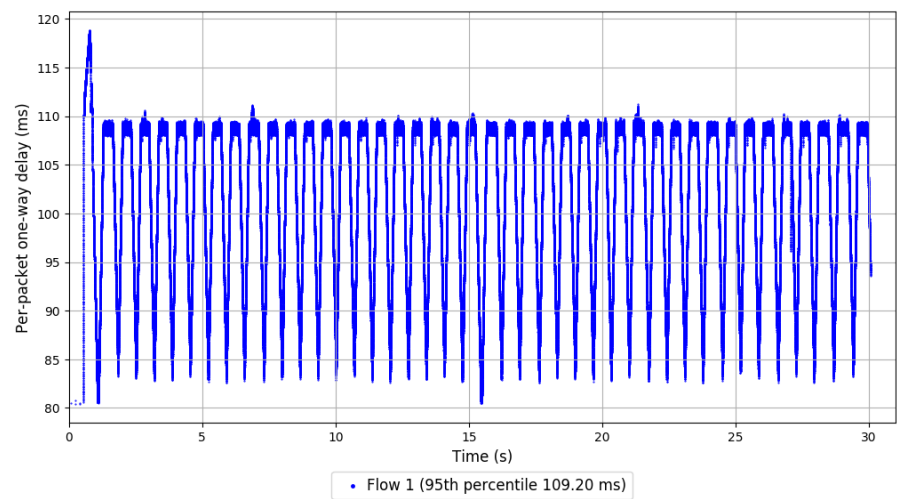
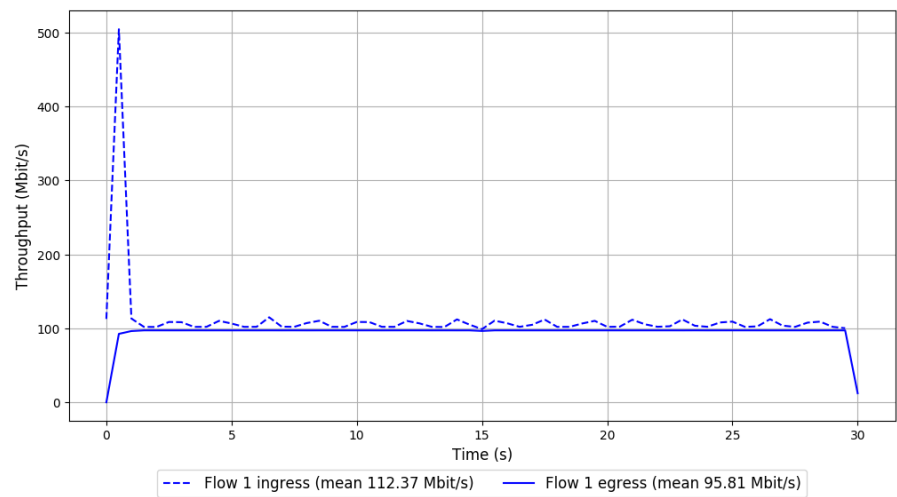
Figure is missing

Run 4: Statistics of FillP

Start at: 2018-01-09 16:34:01
End at: 2018-01-09 16:34:31
Local clock offset: 1.65 ms
Remote clock offset: -5.867 ms

Below is generated by plot.py at 2018-01-09 23:31:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.81 Mbit/s
95th percentile per-packet one-way delay: 109.199 ms
Loss rate: 14.70%
-- Flow 1:
Average throughput: 95.81 Mbit/s
95th percentile per-packet one-way delay: 109.199 ms
Loss rate: 14.70%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-09 17:55:56

End at: 2018-01-09 17:56:26

Local clock offset: 2.066 ms

Remote clock offset: 5.319 ms

Below is generated by plot.py at 2018-01-09 23:31:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.81 Mbit/s

95th percentile per-packet one-way delay: 118.414 ms

Loss rate: 14.36%

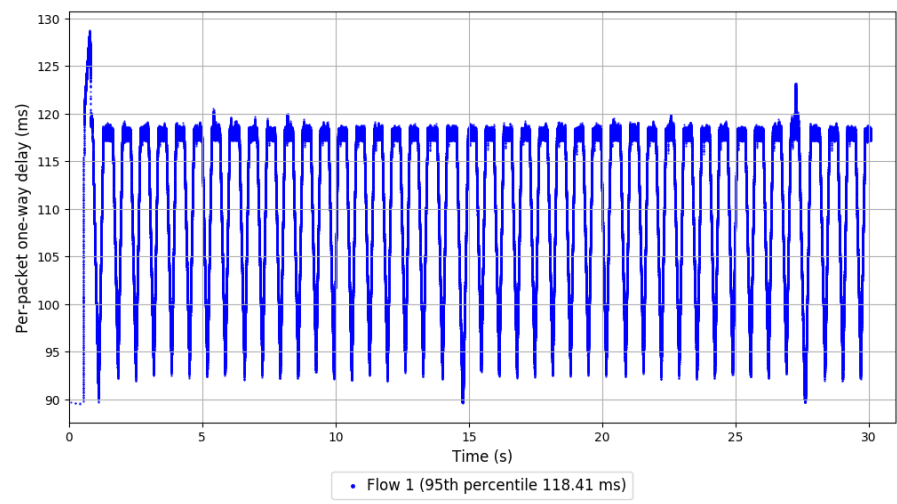
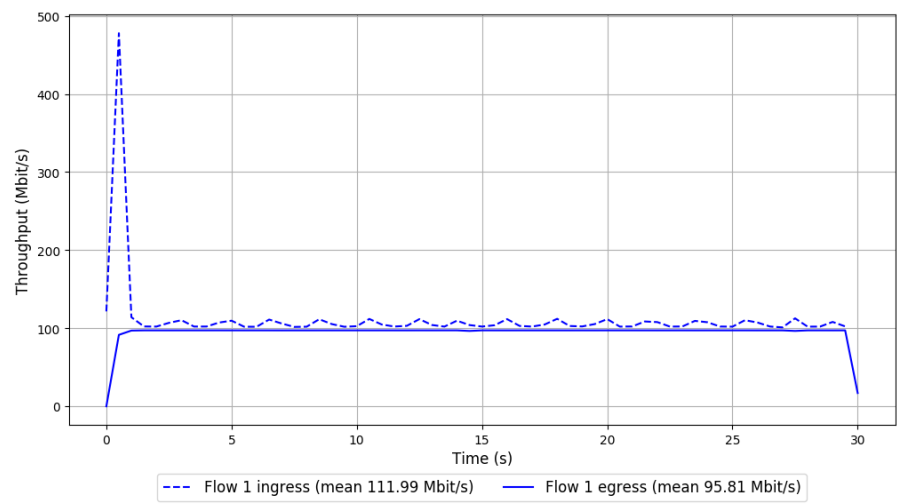
-- Flow 1:

Average throughput: 95.81 Mbit/s

95th percentile per-packet one-way delay: 118.414 ms

Loss rate: 14.36%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-09 19:11:16

End at: 2018-01-09 19:11:46

Local clock offset: 0.587 ms

Remote clock offset: 3.328 ms

Below is generated by plot.py at 2018-01-09 23:31:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.75 Mbit/s

95th percentile per-packet one-way delay: 119.167 ms

Loss rate: 14.64%

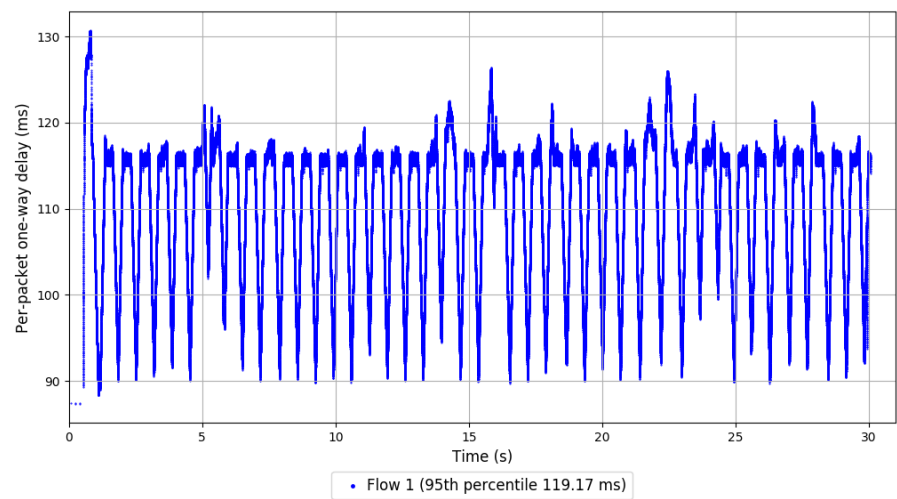
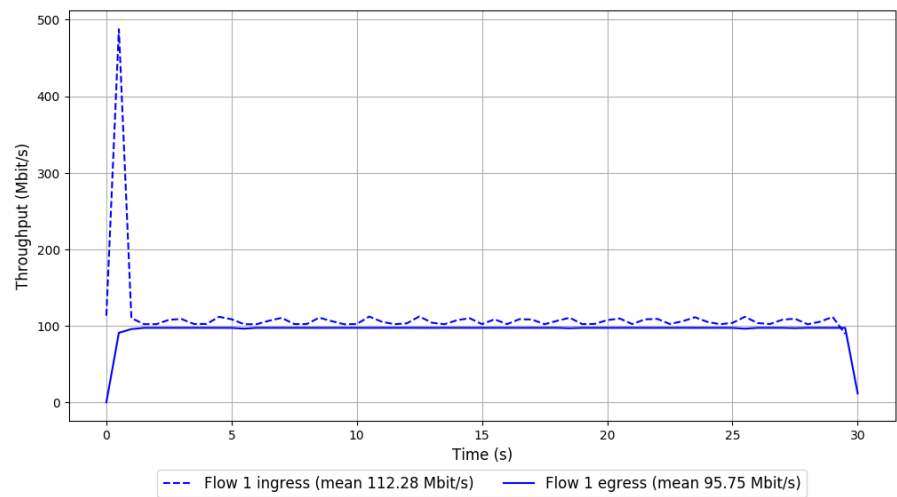
-- Flow 1:

Average throughput: 95.75 Mbit/s

95th percentile per-packet one-way delay: 119.167 ms

Loss rate: 14.64%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-09 20:32:37

End at: 2018-01-09 20:33:07

Local clock offset: 0.334 ms

Remote clock offset: 1.612 ms

Below is generated by plot.py at 2018-01-09 23:33:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.80 Mbit/s

95th percentile per-packet one-way delay: 117.358 ms

Loss rate: 14.39%

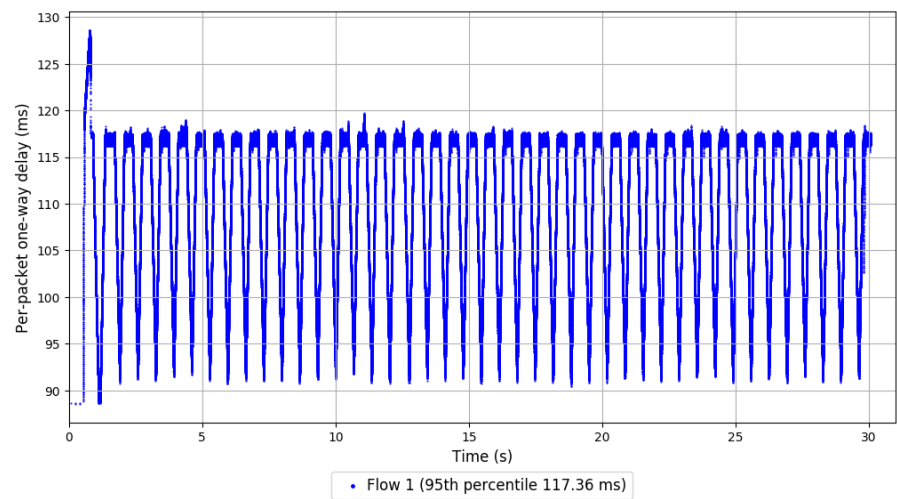
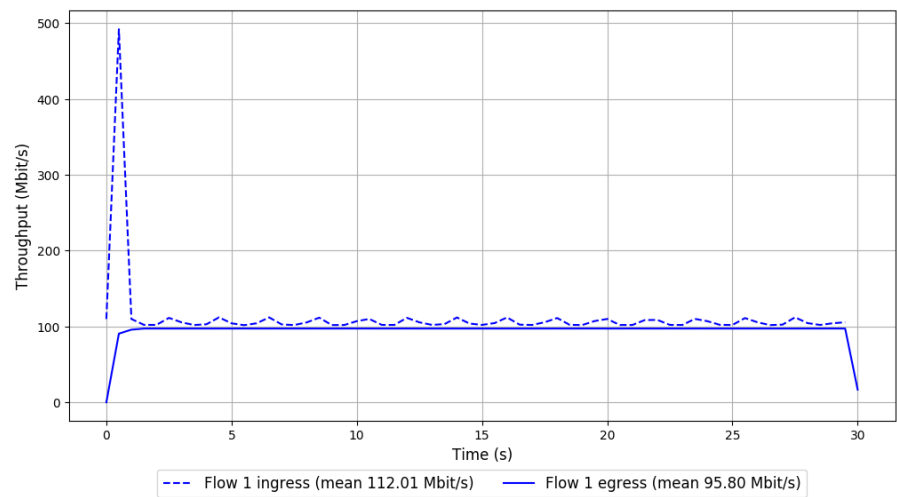
-- Flow 1:

Average throughput: 95.80 Mbit/s

95th percentile per-packet one-way delay: 117.358 ms

Loss rate: 14.39%

Run 7: Report of FillP — Data Link

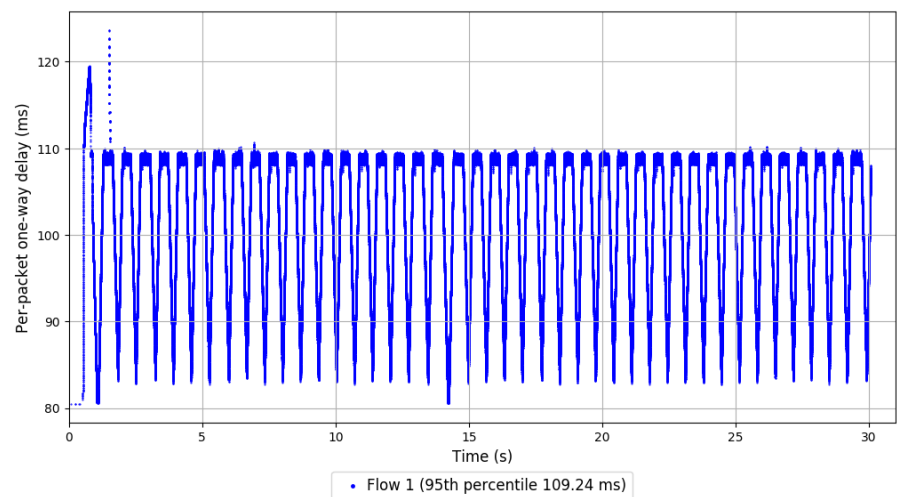
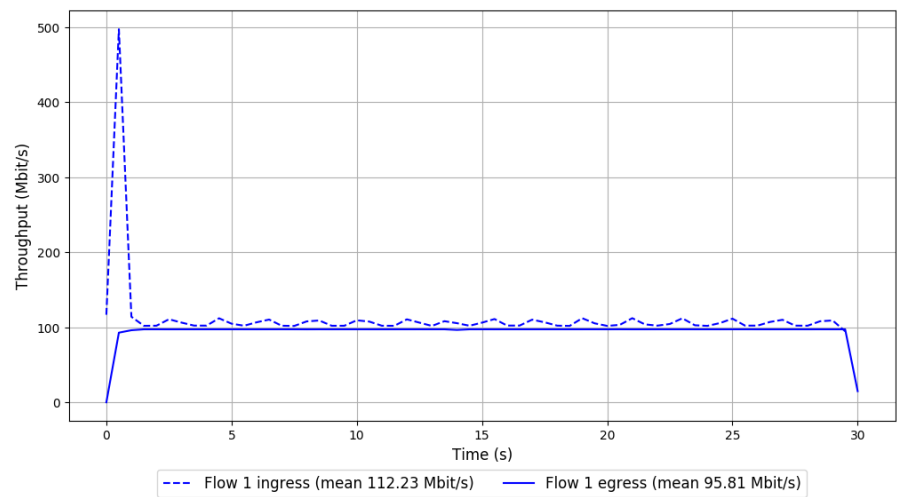


Run 8: Statistics of FillP

Start at: 2018-01-09 21:51:31
End at: 2018-01-09 21:52:01
Local clock offset: 0.97 ms
Remote clock offset: -3.729 ms

Below is generated by plot.py at 2018-01-09 23:33:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.81 Mbit/s
95th percentile per-packet one-way delay: 109.240 ms
Loss rate: 14.56%
-- Flow 1:
Average throughput: 95.81 Mbit/s
95th percentile per-packet one-way delay: 109.240 ms
Loss rate: 14.56%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-09 22:38:09

End at: 2018-01-09 22:38:39

Local clock offset: 0.758 ms

Remote clock offset: 1.038 ms

Below is generated by plot.py at 2018-01-09 23:33:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.79 Mbit/s

95th percentile per-packet one-way delay: 113.500 ms

Loss rate: 14.57%

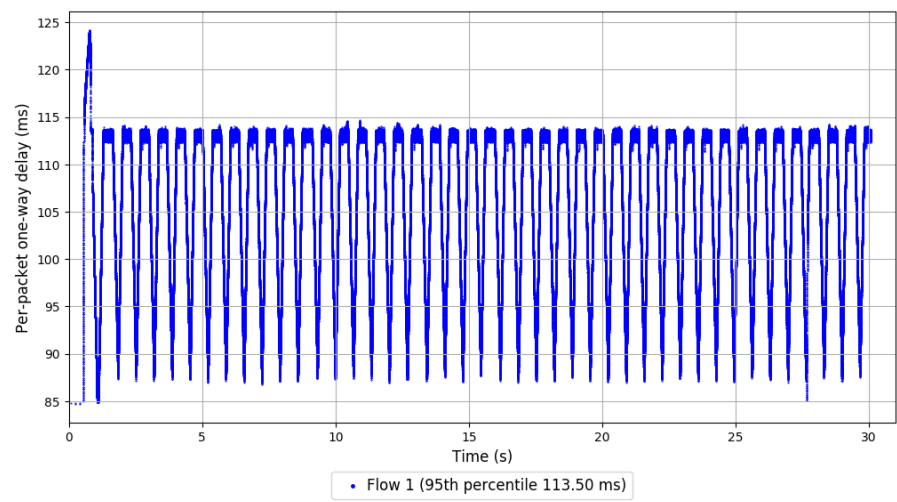
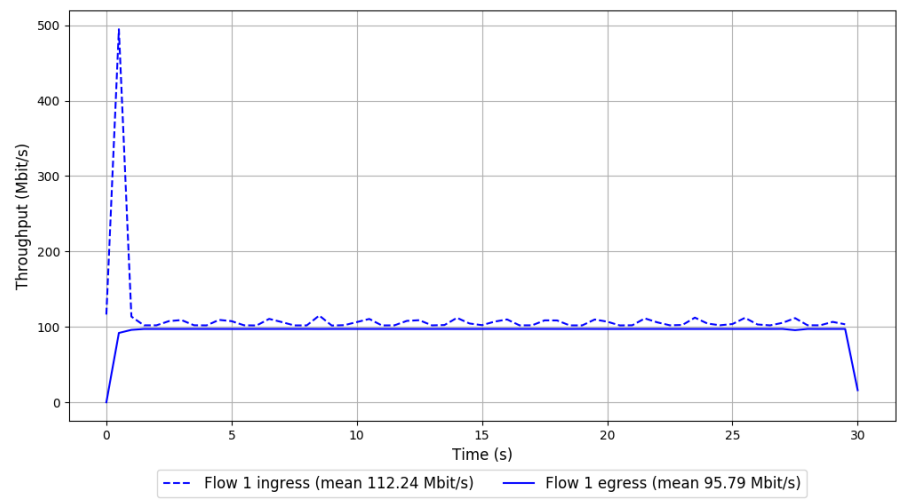
-- Flow 1:

Average throughput: 95.79 Mbit/s

95th percentile per-packet one-way delay: 113.500 ms

Loss rate: 14.57%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-09 22:56:20

End at: 2018-01-09 22:56:50

Local clock offset: 0.597 ms

Remote clock offset: -2.93 ms

Below is generated by plot.py at 2018-01-09 23:33:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.81 Mbit/s

95th percentile per-packet one-way delay: 110.458 ms

Loss rate: 14.39%

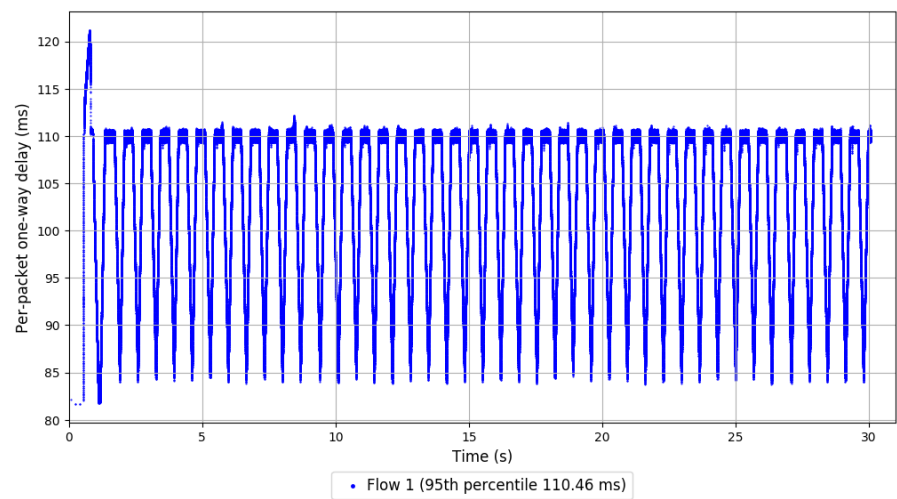
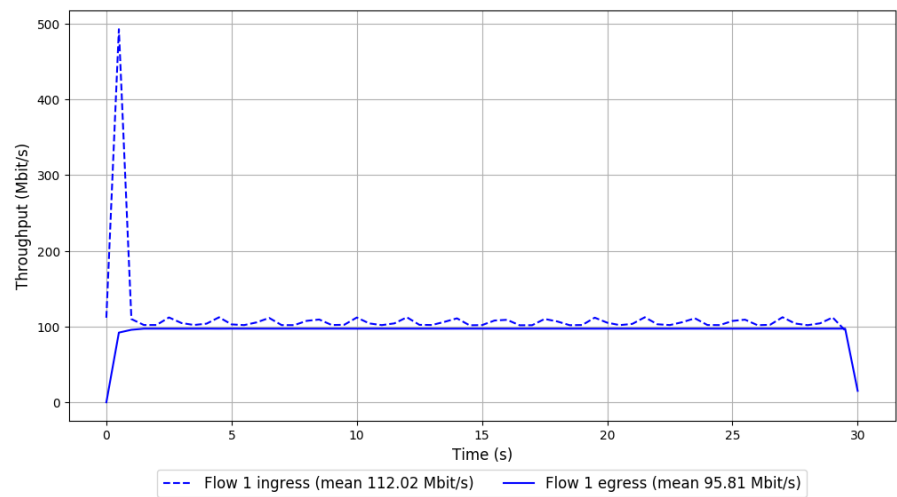
-- Flow 1:

Average throughput: 95.81 Mbit/s

95th percentile per-packet one-way delay: 110.458 ms

Loss rate: 14.39%

Run 10: Report of FillP — Data Link

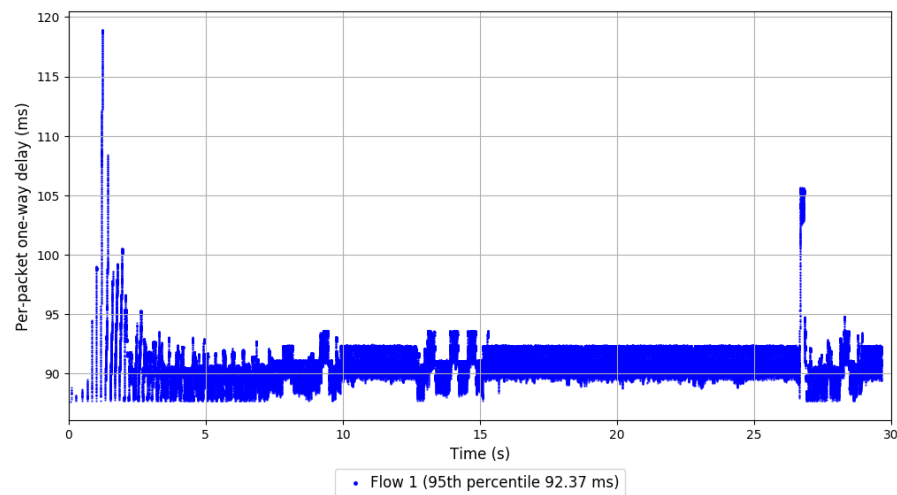
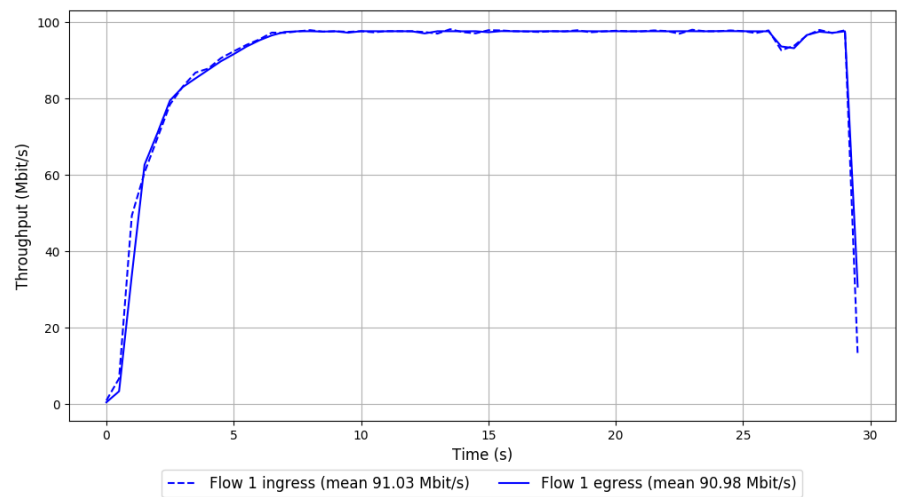


```
Run 1: Statistics of Indigo

Start at: 2018-01-09 08:46:48
End at: 2018-01-09 08:47:18
Local clock offset: -1.851 ms
Remote clock offset: -0.69 ms

# Below is generated by plot.py at 2018-01-09 23:33:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.98 Mbit/s
95th percentile per-packet one-way delay: 92.371 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 90.98 Mbit/s
95th percentile per-packet one-way delay: 92.371 ms
Loss rate: 0.04%
```

Run 1: Report of Indigo — Data Link

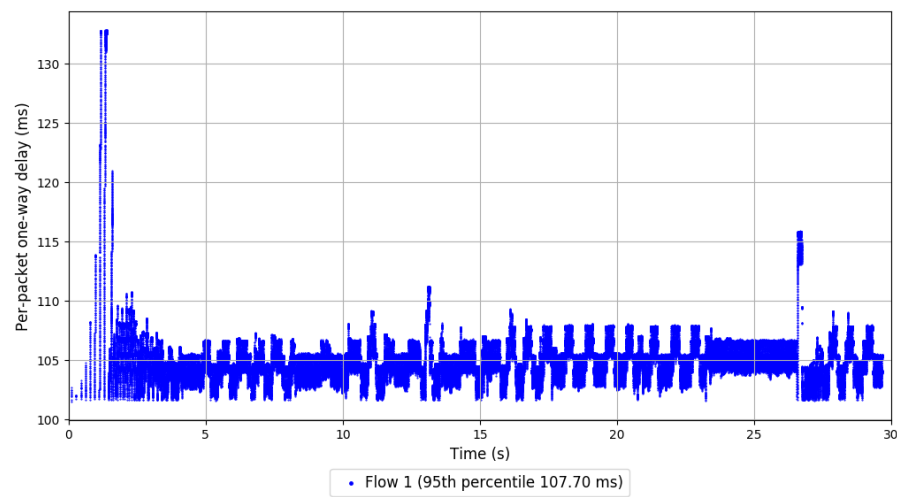
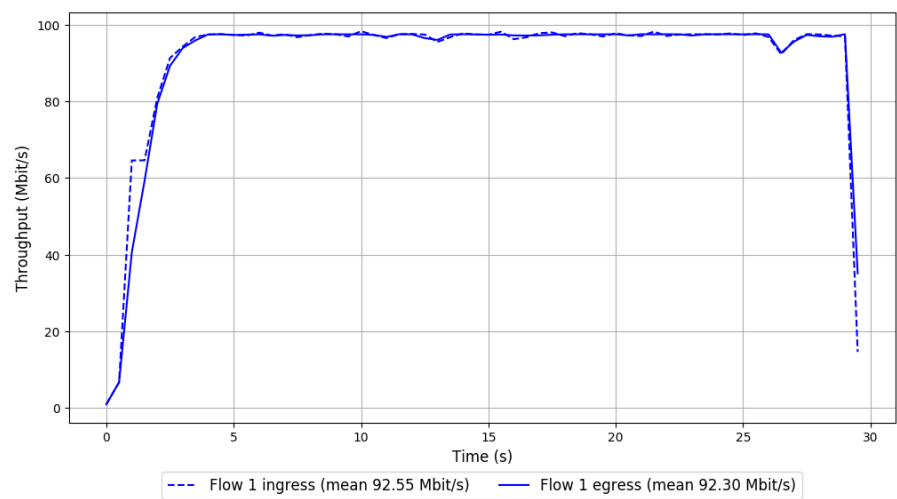


Run 2: Statistics of Indigo

Start at: 2018-01-09 11:40:17
End at: 2018-01-09 11:40:47
Local clock offset: -1.439 ms
Remote clock offset: 13.337 ms

Below is generated by plot.py at 2018-01-09 23:33:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.30 Mbit/s
95th percentile per-packet one-way delay: 107.704 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 92.30 Mbit/s
95th percentile per-packet one-way delay: 107.704 ms
Loss rate: 0.25%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-09 14:54:54

End at: 2018-01-09 14:55:24

Local clock offset: 1.421 ms

Remote clock offset: 9.252 ms

Below is generated by plot.py at 2018-01-09 23:33:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.24 Mbit/s

95th percentile per-packet one-way delay: 101.060 ms

Loss rate: 1.00%

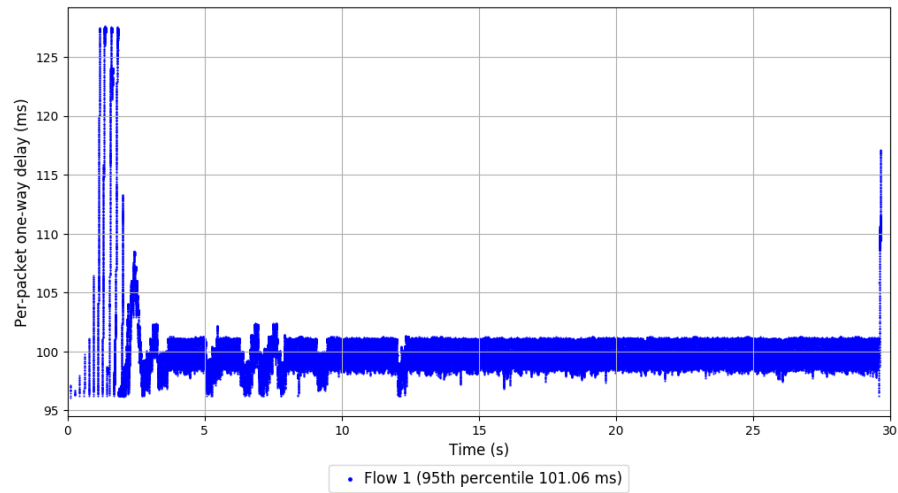
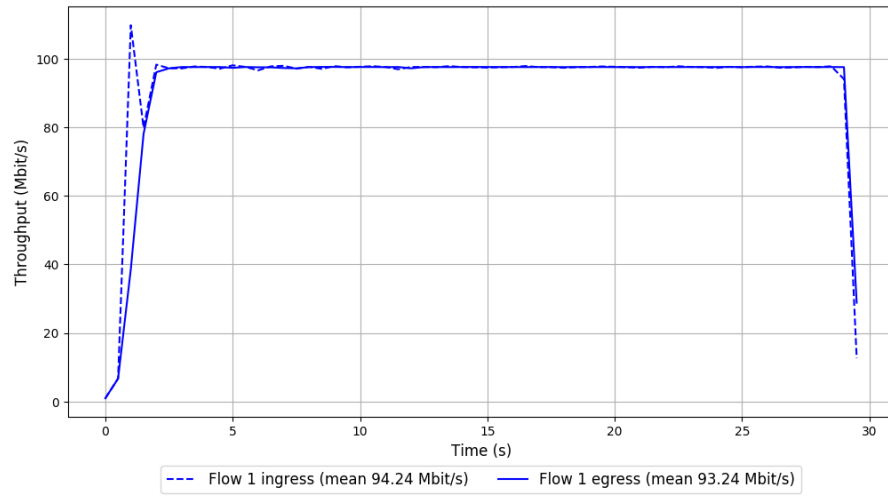
-- Flow 1:

Average throughput: 93.24 Mbit/s

95th percentile per-packet one-way delay: 101.060 ms

Loss rate: 1.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-09 16:06:37

End at: 2018-01-09 16:07:07

Local clock offset: 1.207 ms

Remote clock offset: 0.579 ms

Below is generated by plot.py at 2018-01-09 23:33:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.97 Mbit/s

95th percentile per-packet one-way delay: 94.226 ms

Loss rate: 1.61%

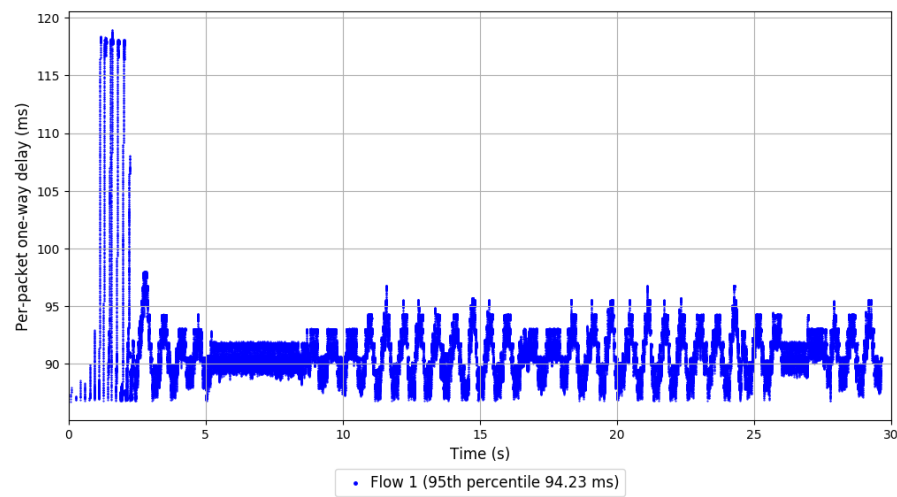
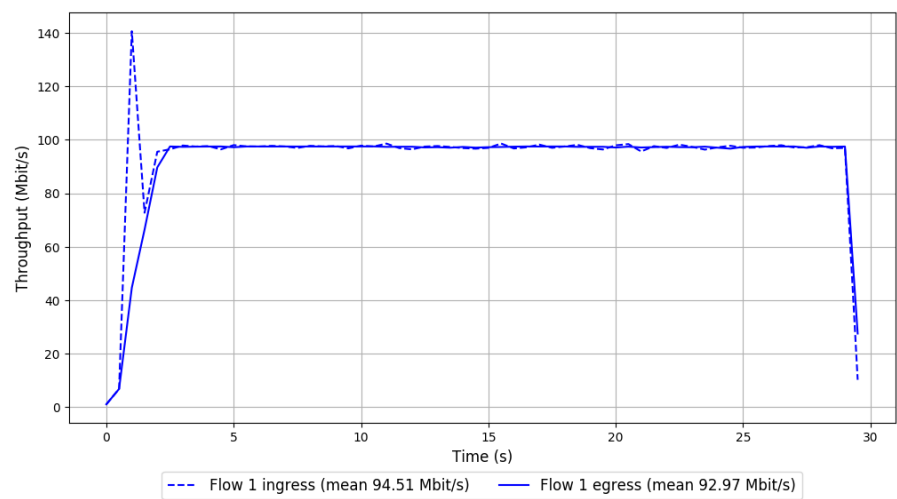
-- Flow 1:

Average throughput: 92.97 Mbit/s

95th percentile per-packet one-way delay: 94.226 ms

Loss rate: 1.61%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-09 17:28:01

End at: 2018-01-09 17:28:31

Local clock offset: 2.108 ms

Remote clock offset: 1.021 ms

Below is generated by plot.py at 2018-01-09 23:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.15 Mbit/s

95th percentile per-packet one-way delay: 94.360 ms

Loss rate: 0.33%

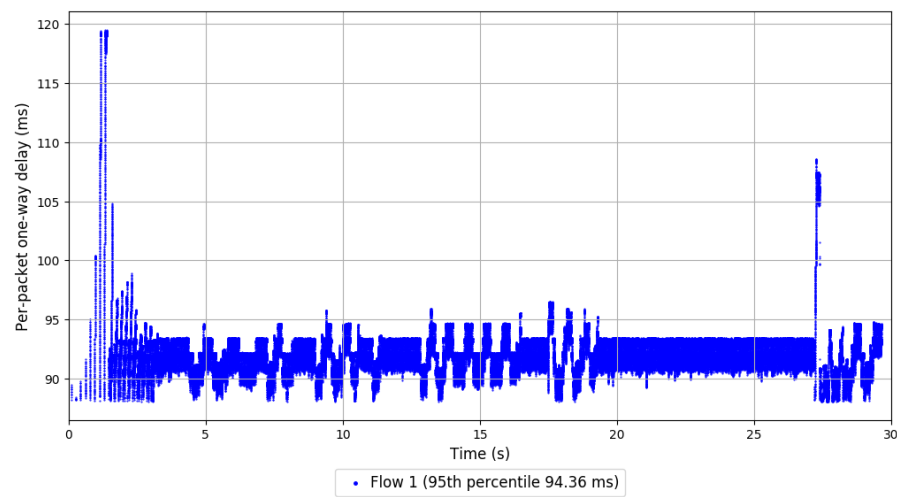
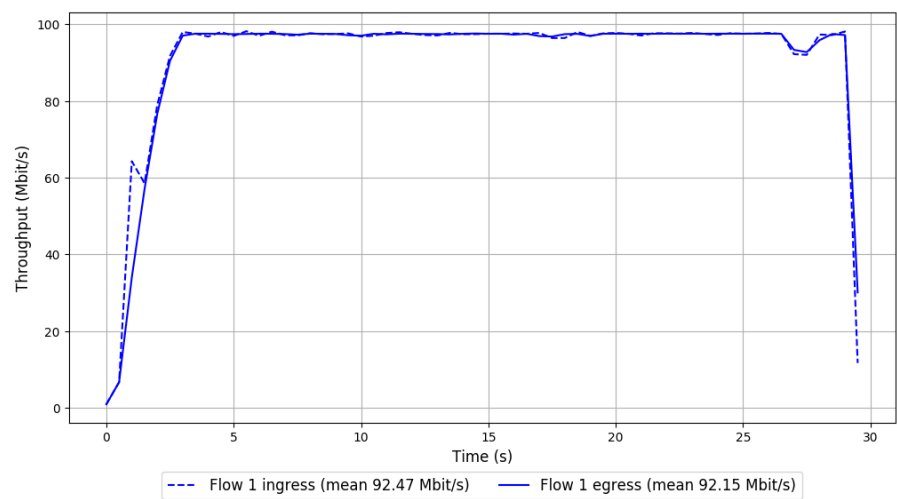
-- Flow 1:

Average throughput: 92.15 Mbit/s

95th percentile per-packet one-way delay: 94.360 ms

Loss rate: 0.33%

Run 5: Report of Indigo — Data Link

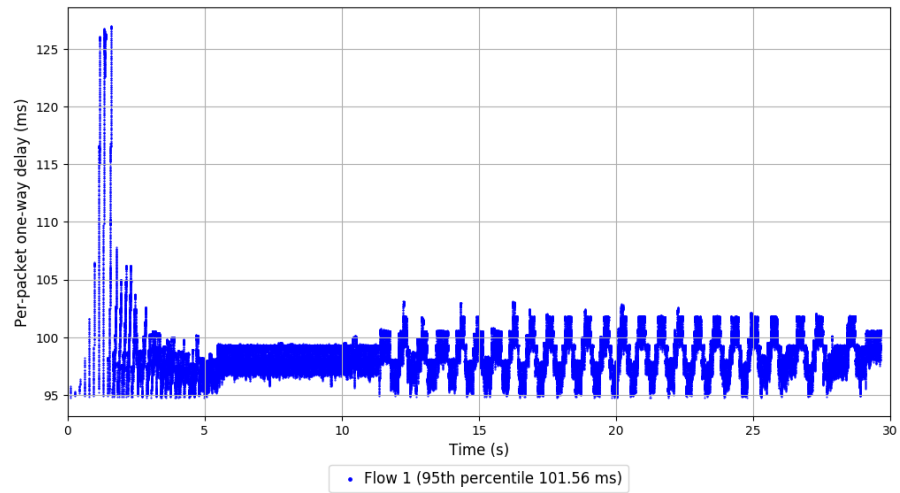
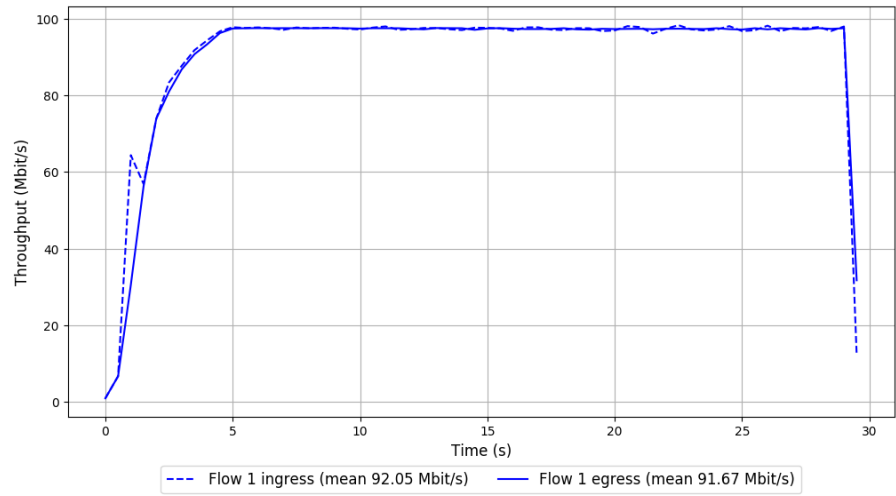


Run 6: Statistics of Indigo

Start at: 2018-01-09 18:43:06
End at: 2018-01-09 18:43:36
Local clock offset: 1.092 ms
Remote clock offset: 10.517 ms

Below is generated by plot.py at 2018-01-09 23:35:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.67 Mbit/s
95th percentile per-packet one-way delay: 101.563 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 91.67 Mbit/s
95th percentile per-packet one-way delay: 101.563 ms
Loss rate: 0.40%

Run 6: Report of Indigo — Data Link

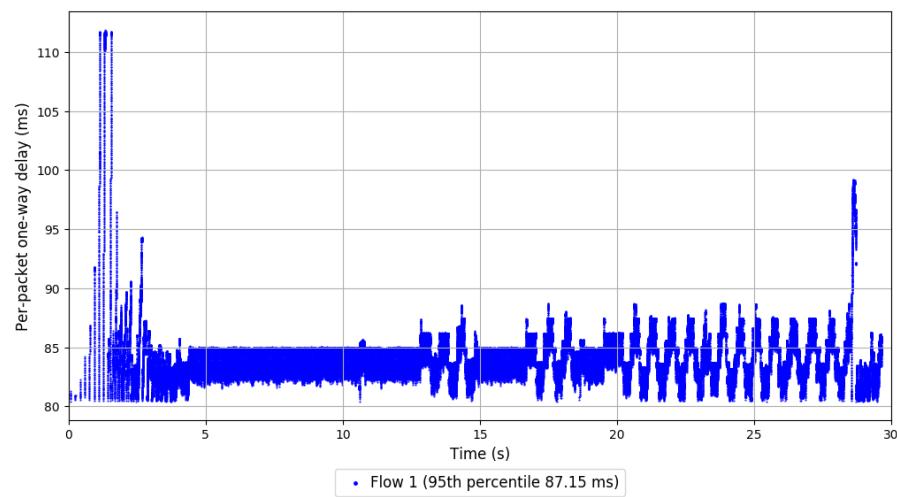
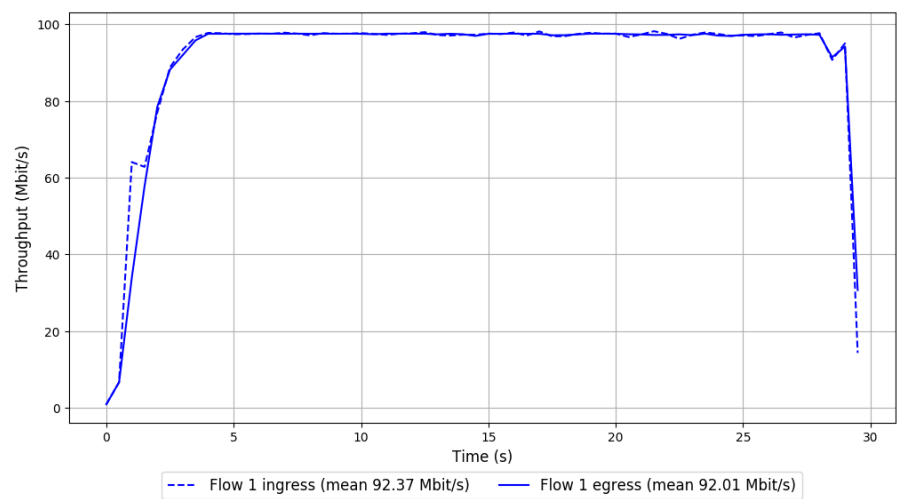


Run 7: Statistics of Indigo

Start at: 2018-01-09 20:05:59
End at: 2018-01-09 20:06:29
Local clock offset: 0.354 ms
Remote clock offset: -4.772 ms

Below is generated by plot.py at 2018-01-09 23:35:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.01 Mbit/s
95th percentile per-packet one-way delay: 87.146 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 92.01 Mbit/s
95th percentile per-packet one-way delay: 87.146 ms
Loss rate: 0.37%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-09 21:23:20

End at: 2018-01-09 21:23:50

Local clock offset: 1.109 ms

Remote clock offset: 0.211 ms

Below is generated by plot.py at 2018-01-09 23:35:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.23 Mbit/s

95th percentile per-packet one-way delay: 93.812 ms

Loss rate: 0.32%

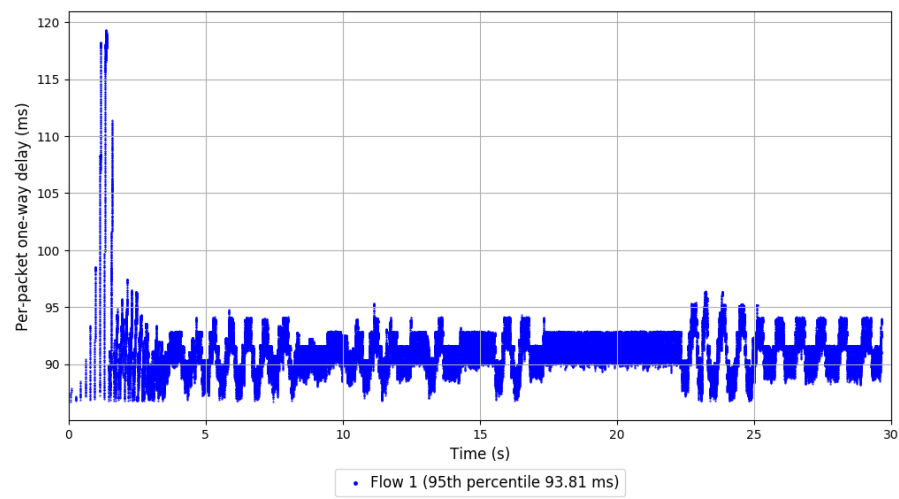
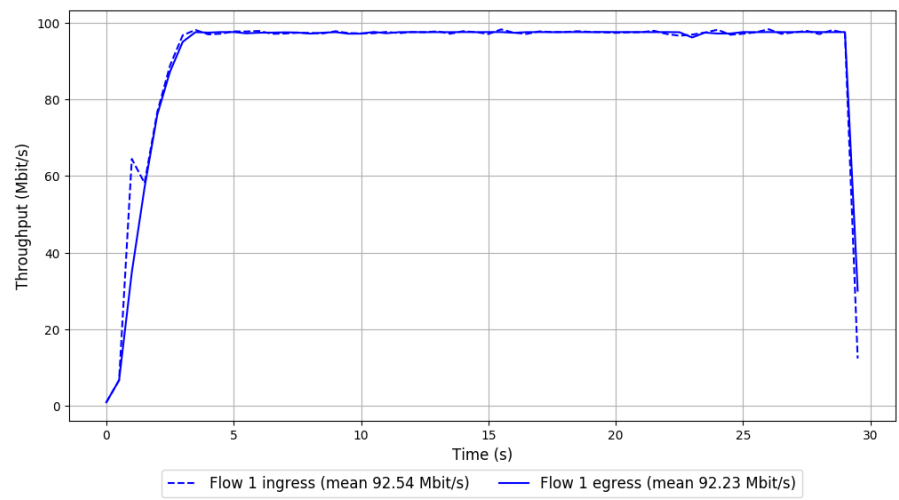
-- Flow 1:

Average throughput: 92.23 Mbit/s

95th percentile per-packet one-way delay: 93.812 ms

Loss rate: 0.32%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-09 22:34:23

End at: 2018-01-09 22:34:53

Local clock offset: 0.766 ms

Remote clock offset: -2.759 ms

Below is generated by plot.py at 2018-01-09 23:35:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.14 Mbit/s

95th percentile per-packet one-way delay: 89.555 ms

Loss rate: 0.40%

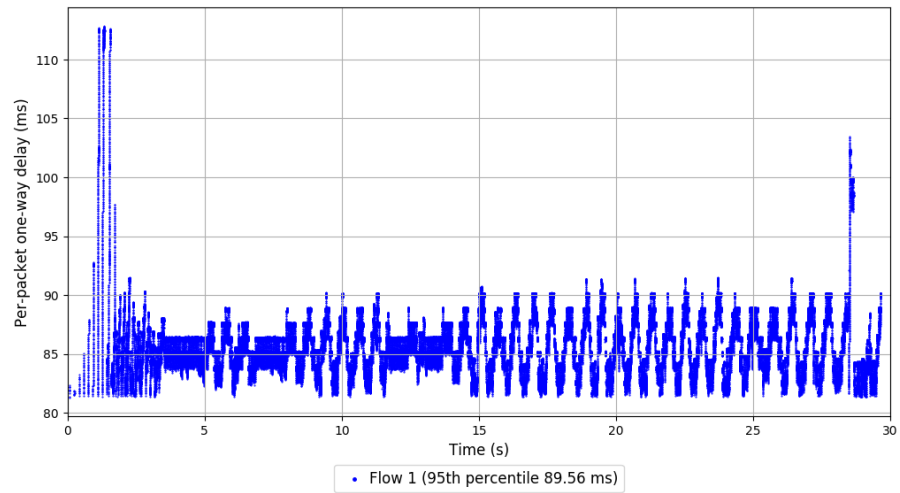
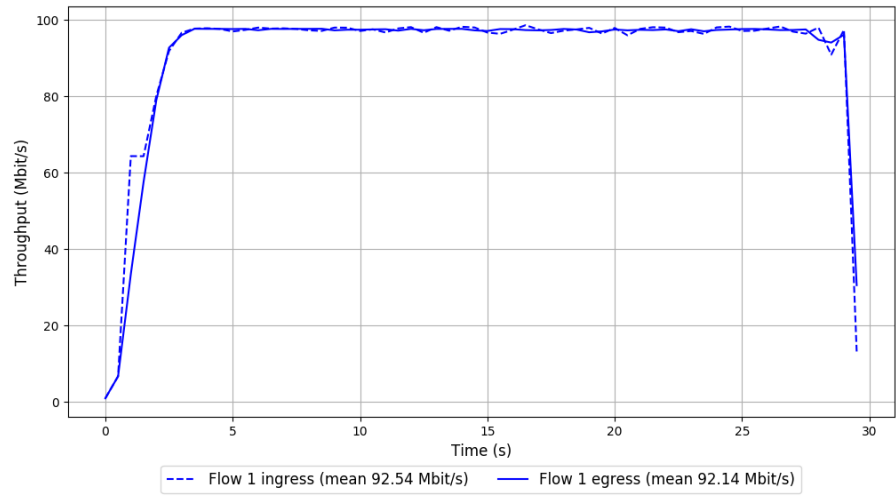
-- Flow 1:

Average throughput: 92.14 Mbit/s

95th percentile per-packet one-way delay: 89.555 ms

Loss rate: 0.40%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-09 22:52:34

End at: 2018-01-09 22:53:04

Local clock offset: 0.576 ms

Remote clock offset: -2.941 ms

Below is generated by plot.py at 2018-01-09 23:35:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.04 Mbit/s

95th percentile per-packet one-way delay: 90.828 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 92.04 Mbit/s

95th percentile per-packet one-way delay: 90.828 ms

Loss rate: 0.39%

Run 10: Report of Indigo — Data Link

