

## Pantheon Report

Generated at 2018-01-09 11:38:38 (UTC).

Data path: GCE London Ethernet (*remote*) → GCE Sydney Ethernet (*local*).

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

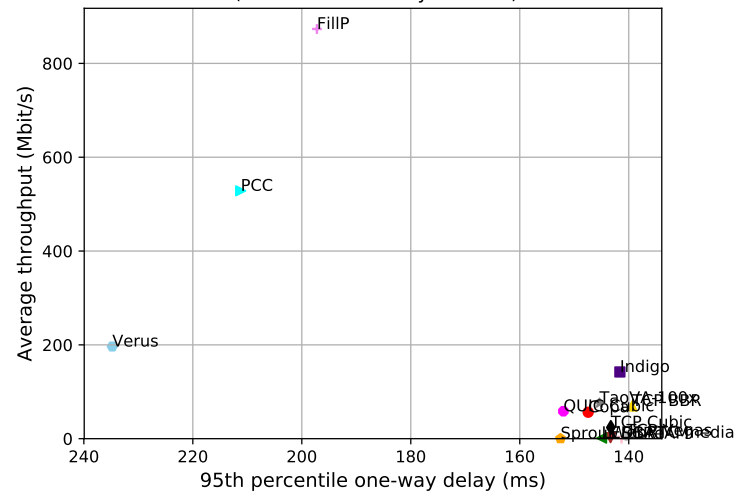
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

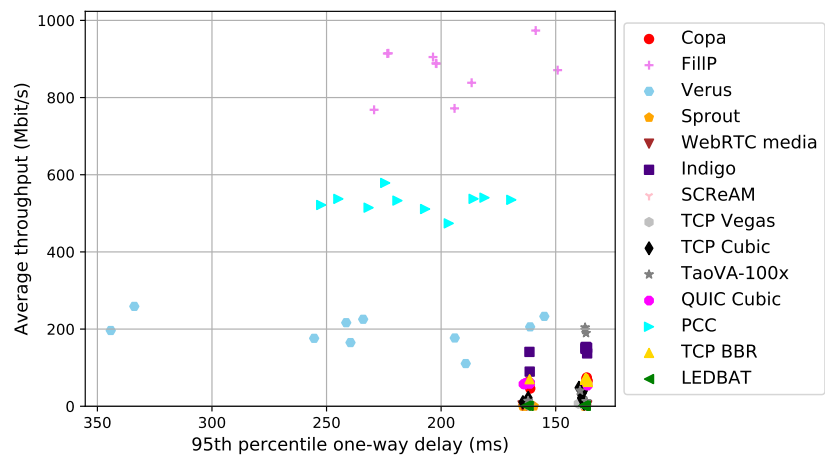
Git summary:

```
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 GCE London Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme  
(mean of all runs by scheme)



test from GCE London Ethernet to GCE Sydney 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	69.67	139.39	1.29
TCP Cubic	10	23.82	143.29	2.56
LEDBAT	10	1.19	144.99	1.63
PCC	10	528.38	211.21	2.76
QUIC Cubic	10	58.54	151.99	1.19
SCReAM	10	0.21	141.34	0.93
WebRTC media	8	2.07	143.34	0.98
Sprout	10	0.31	152.52	1.12
TaoVA-100x	9	75.91	145.37	1.12
TCP Vegas	10	6.39	140.42	2.33
Verus	10	196.47	234.78	3.35
Copa	7	56.38	147.44	0.64
FillP	10	873.40	197.23	1.79
Indigo	10	142.26	141.63	1.07

Run 1: Statistics of TCP BBR

Start at: 2018-01-09 06:42:46

End at: 2018-01-09 06:43:16

# Below is generated by plot.py at 2018-01-09 10:56:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 68.52 Mbit/s

95th percentile per-packet one-way delay: 137.224 ms

Loss rate: 2.43%

-- Flow 1:

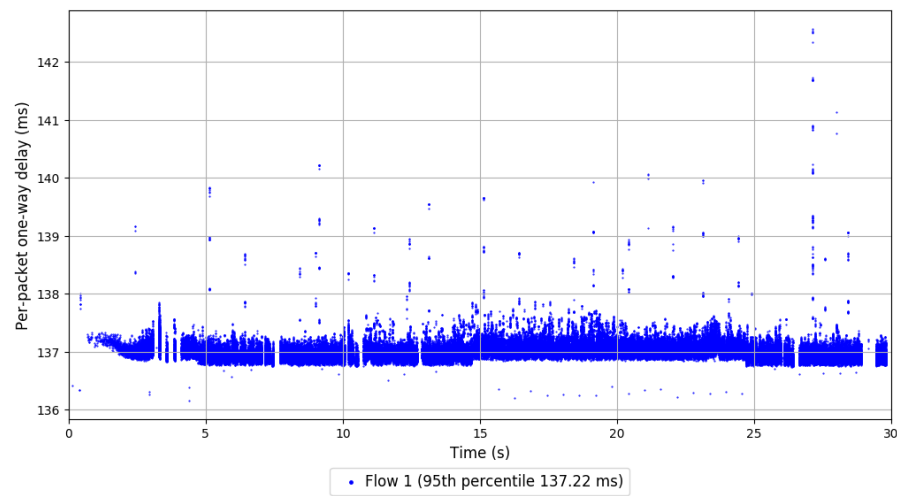
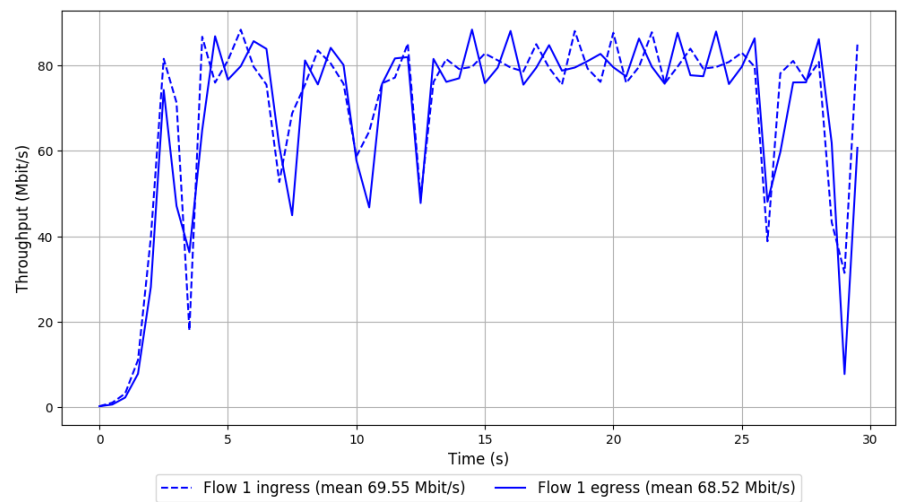
Average throughput: 68.52 Mbit/s

95th percentile per-packet one-way delay: 137.224 ms

Loss rate: 2.43%



Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-09 06:55:36

End at: 2018-01-09 06:56:06

# Below is generated by plot.py at 2018-01-09 10:56:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 72.39 Mbit/s

95th percentile per-packet one-way delay: 136.985 ms

Loss rate: 1.14%

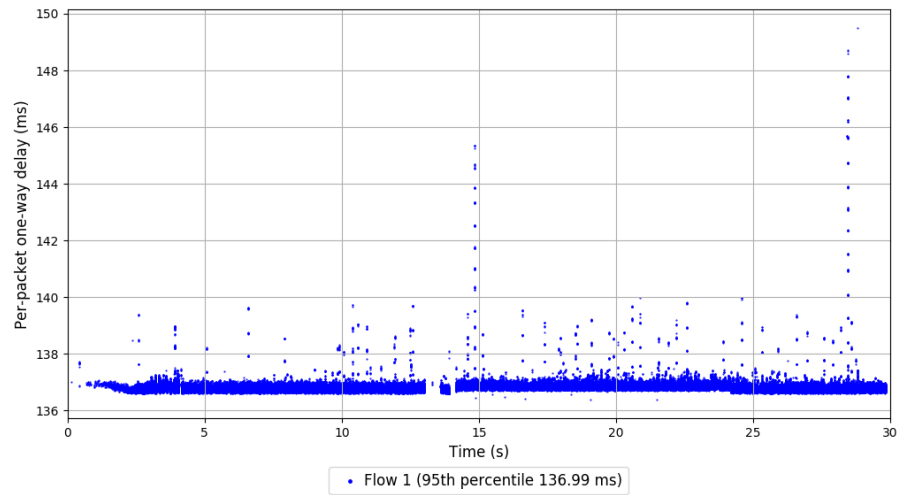
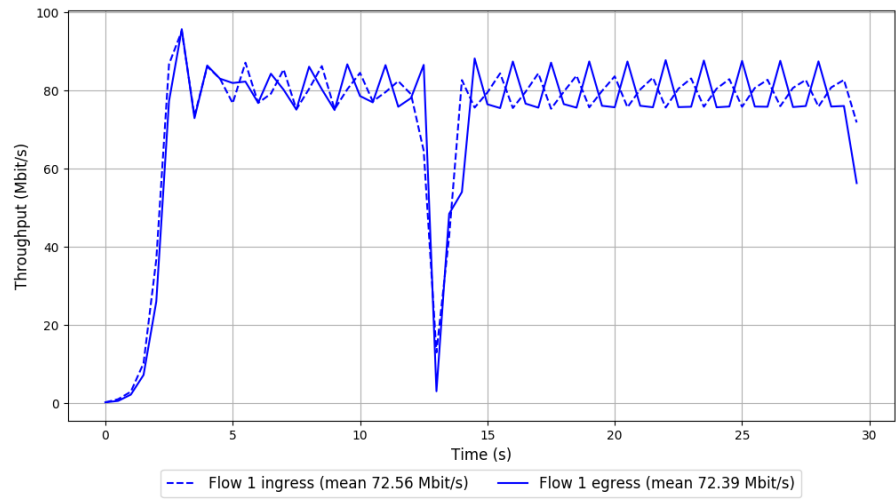
-- Flow 1:

Average throughput: 72.39 Mbit/s

95th percentile per-packet one-way delay: 136.985 ms

Loss rate: 1.14%

## Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-09 07:08:20

End at: 2018-01-09 07:08:50

# Below is generated by plot.py at 2018-01-09 10:56:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 73.48 Mbit/s

95th percentile per-packet one-way delay: 136.863 ms

Loss rate: 1.09%

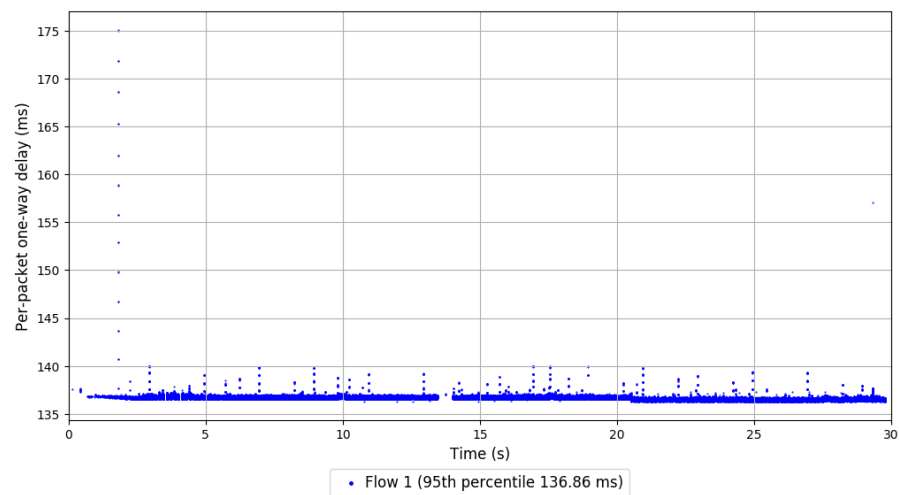
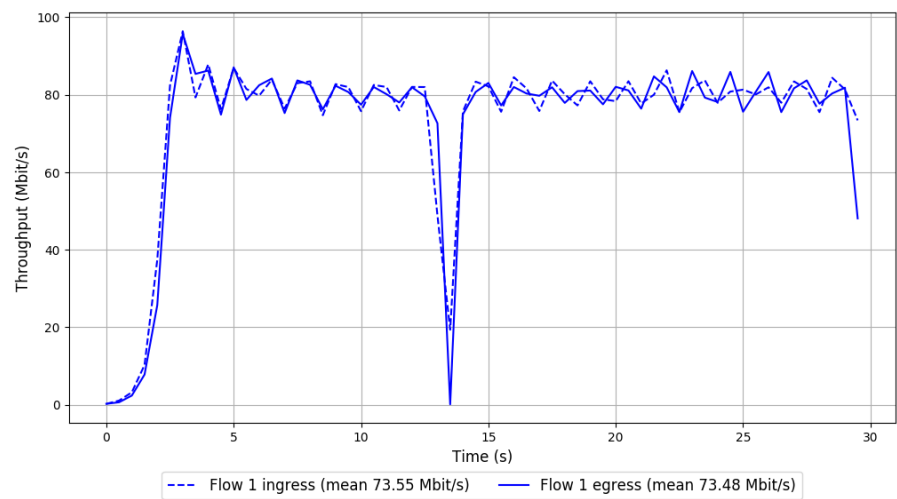
-- Flow 1:

Average throughput: 73.48 Mbit/s

95th percentile per-packet one-way delay: 136.863 ms

Loss rate: 1.09%

Run 3: Report of TCP BBR — Data Link

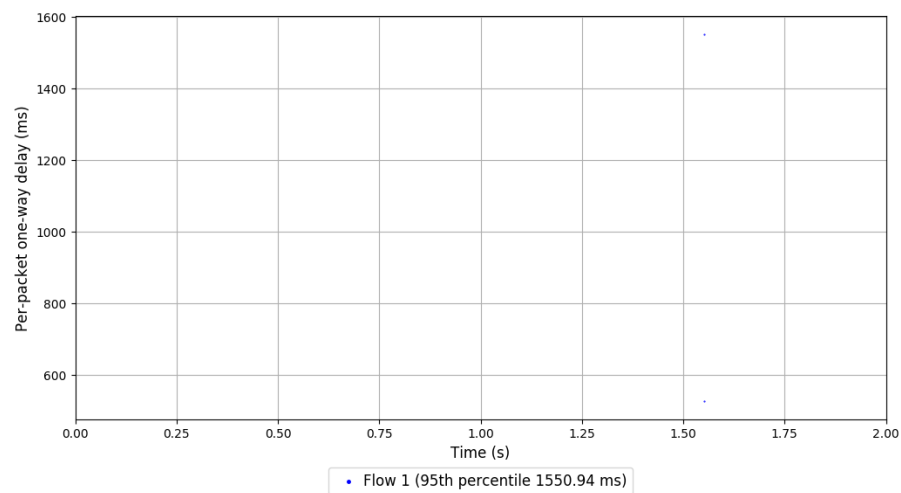
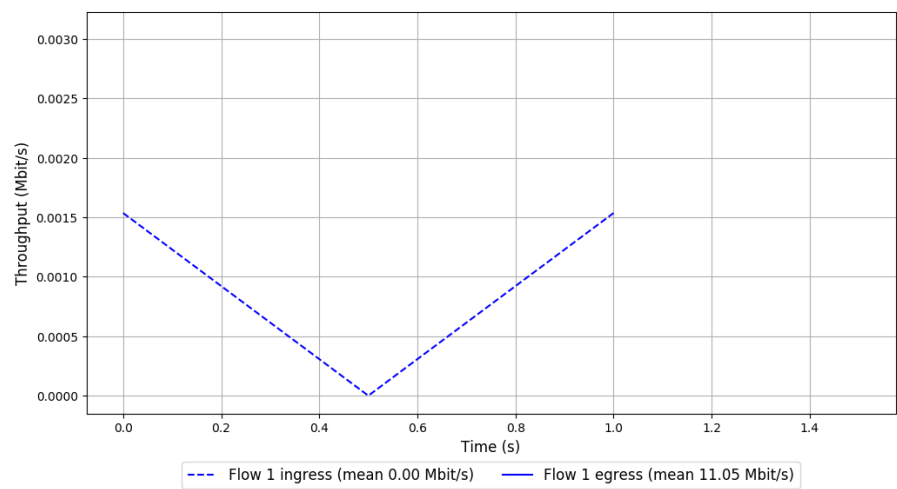


Run 4: Statistics of TCP BBR

Start at: 2018-01-09 07:21:09

End at: 2018-01-09 07:21:39

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-09 07:33:24

End at: 2018-01-09 07:33:54

# Below is generated by plot.py at 2018-01-09 10:56:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 70.15 Mbit/s

95th percentile per-packet one-way delay: 161.389 ms

Loss rate: 1.06%

-- Flow 1:

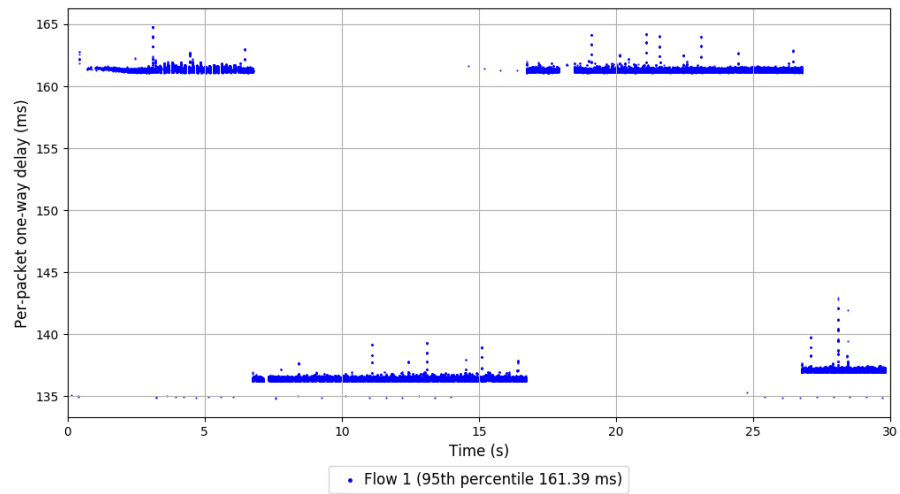
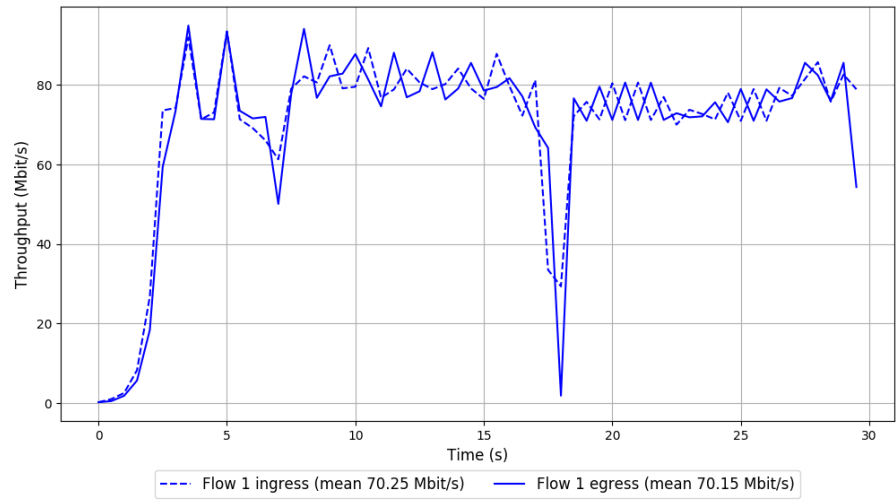
Average throughput: 70.15 Mbit/s

95th percentile per-packet one-way delay: 161.389 ms

Loss rate: 1.06%



### Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-09 07:45:58

End at: 2018-01-09 07:46:28

# Below is generated by plot.py at 2018-01-09 10:56:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 73.02 Mbit/s

95th percentile per-packet one-way delay: 136.872 ms

Loss rate: 0.73%

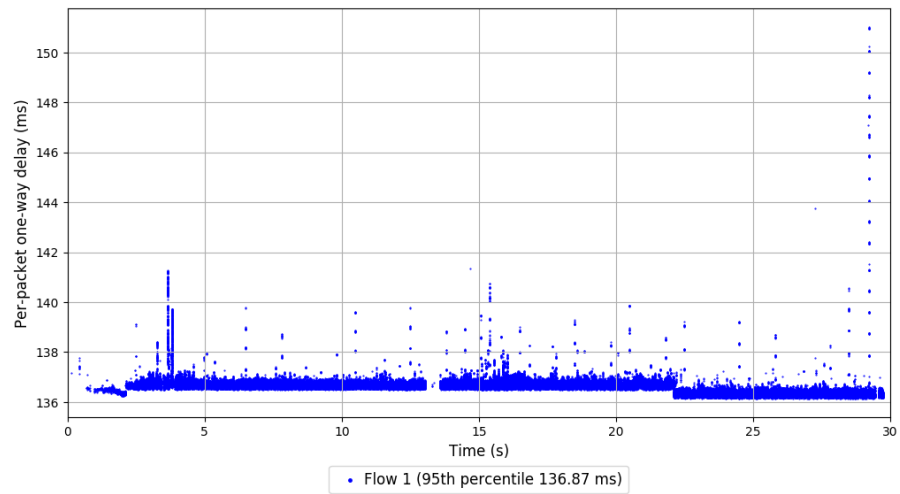
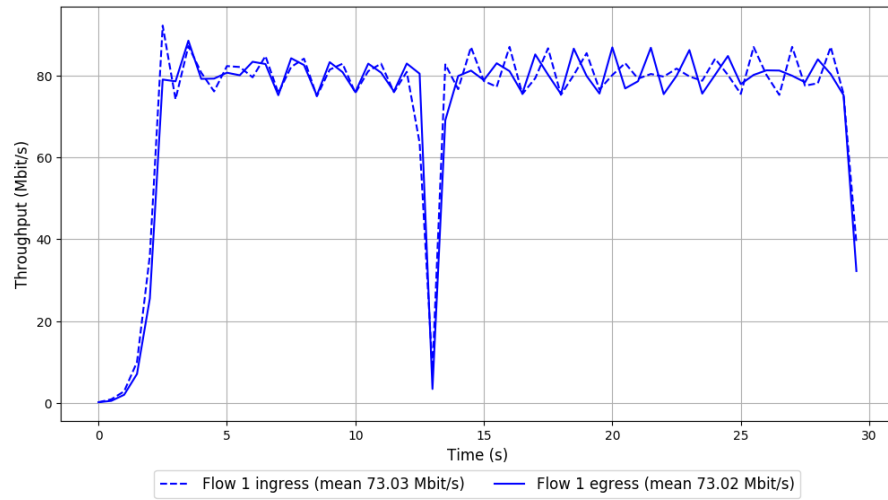
-- Flow 1:

Average throughput: 73.02 Mbit/s

95th percentile per-packet one-way delay: 136.872 ms

Loss rate: 0.73%

## Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-09 07:59:08

End at: 2018-01-09 07:59:38

# Below is generated by plot.py at 2018-01-09 10:56:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 71.73 Mbit/s

95th percentile per-packet one-way delay: 137.125 ms

Loss rate: 0.99%

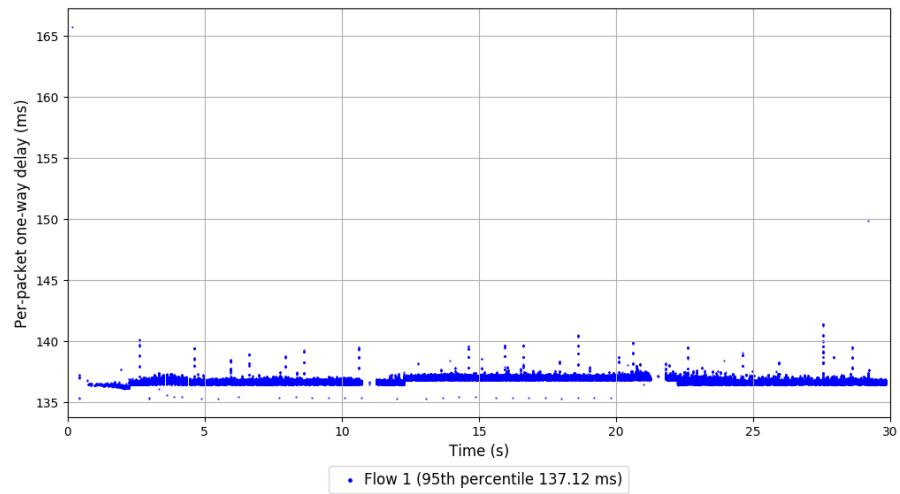
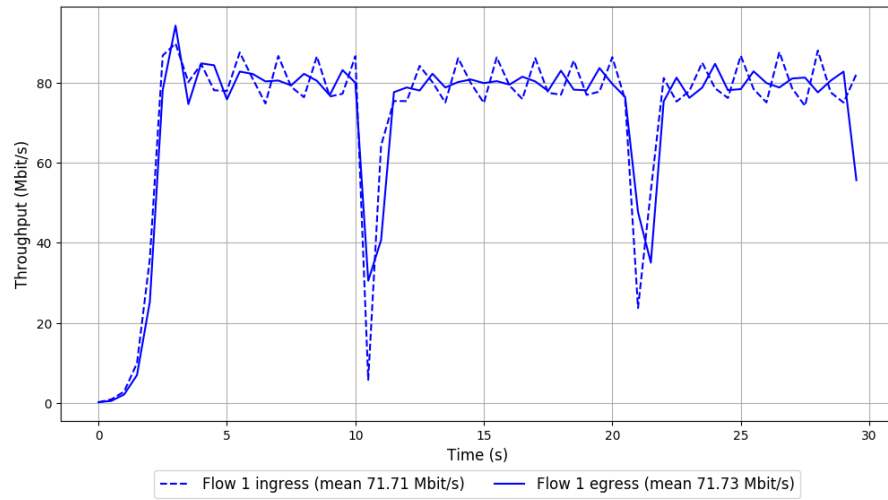
-- Flow 1:

Average throughput: 71.73 Mbit/s

95th percentile per-packet one-way delay: 137.125 ms

Loss rate: 0.99%

## Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-09 08:11:53

End at: 2018-01-09 08:12:23

# Below is generated by plot.py at 2018-01-09 10:56:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 70.77 Mbit/s

95th percentile per-packet one-way delay: 136.127 ms

Loss rate: 1.29%

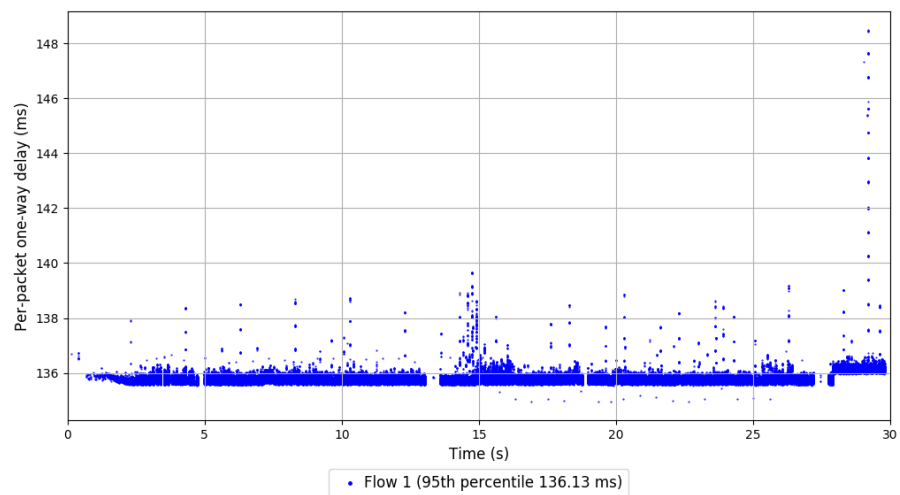
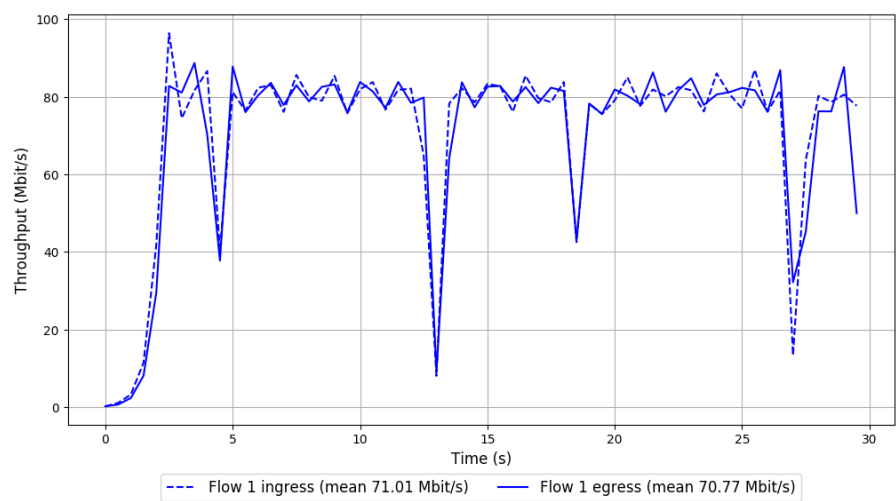
-- Flow 1:

Average throughput: 70.77 Mbit/s

95th percentile per-packet one-way delay: 136.127 ms

Loss rate: 1.29%

## Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-09 08:24:47

End at: 2018-01-09 08:25:17

# Below is generated by plot.py at 2018-01-09 10:56:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 63.15 Mbit/s

95th percentile per-packet one-way delay: 135.937 ms

Loss rate: 1.30%

-- Flow 1:

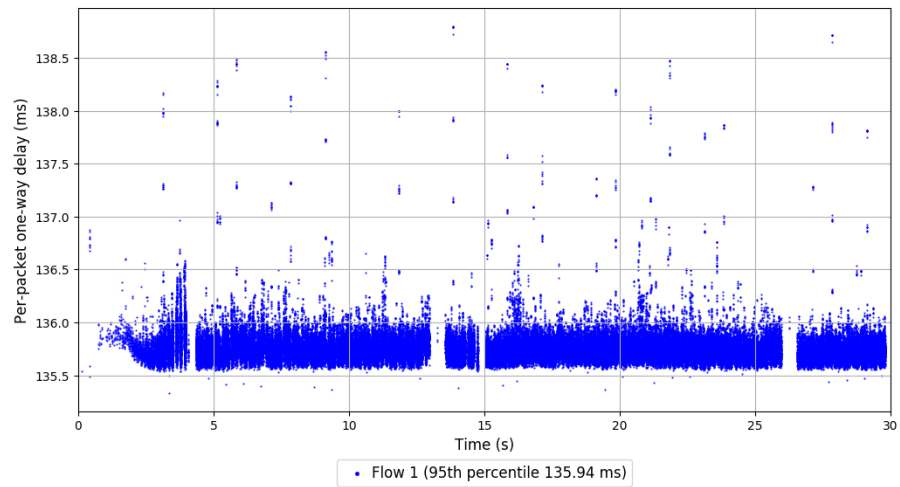
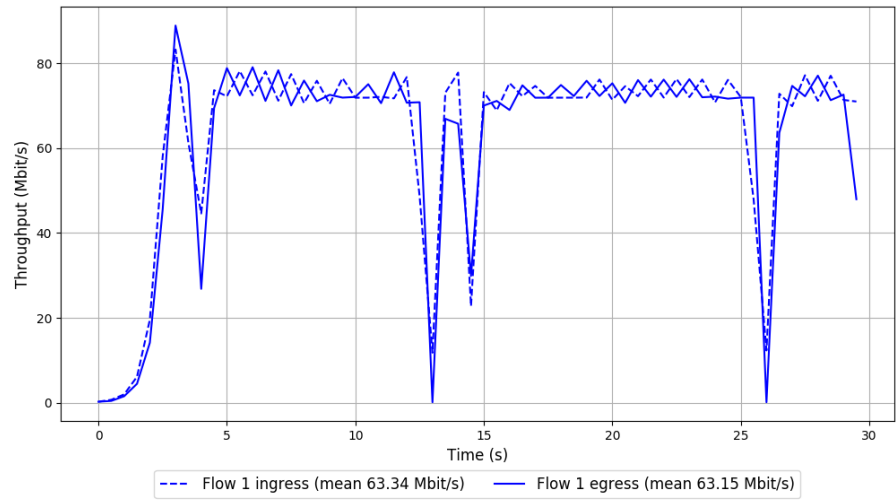
Average throughput: 63.15 Mbit/s

95th percentile per-packet one-way delay: 135.937 ms

Loss rate: 1.30%



### Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-09 08:38:02

End at: 2018-01-09 08:38:32

# Below is generated by plot.py at 2018-01-09 10:58:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 63.78 Mbit/s

95th percentile per-packet one-way delay: 135.982 ms

Loss rate: 1.60%

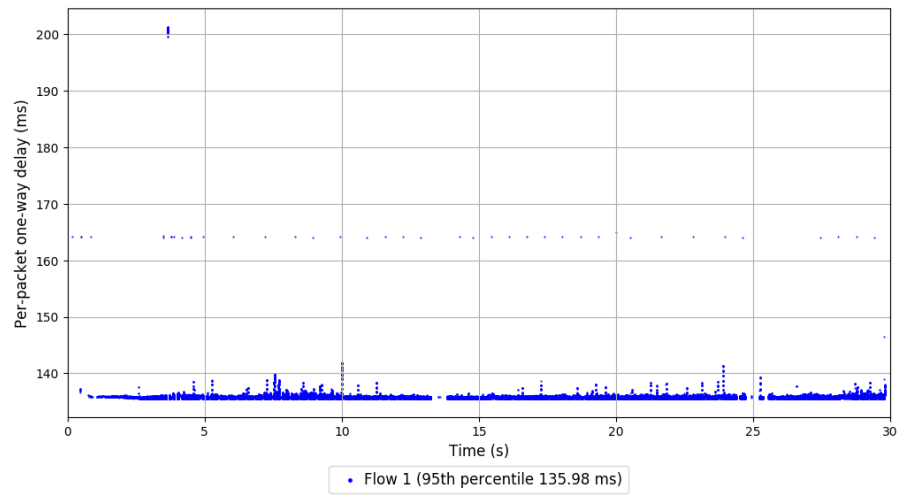
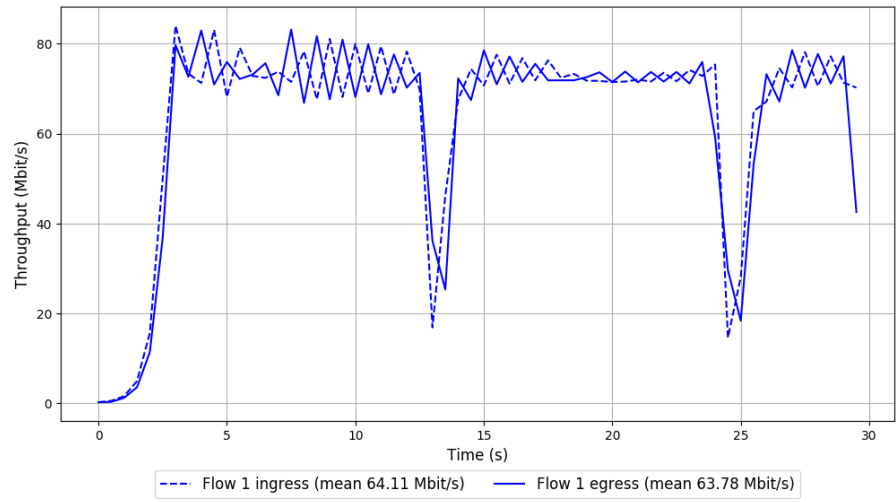
-- Flow 1:

Average throughput: 63.78 Mbit/s

95th percentile per-packet one-way delay: 135.982 ms

Loss rate: 1.60%

# Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-09 06:46:40

End at: 2018-01-09 06:47:10

# Below is generated by plot.py at 2018-01-09 10:58:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.36 Mbit/s

95th percentile per-packet one-way delay: 137.610 ms

Loss rate: 3.81%

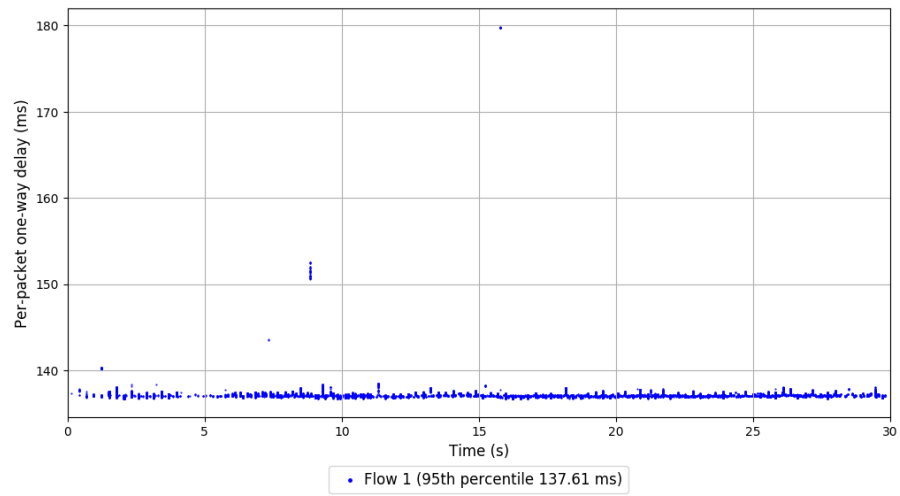
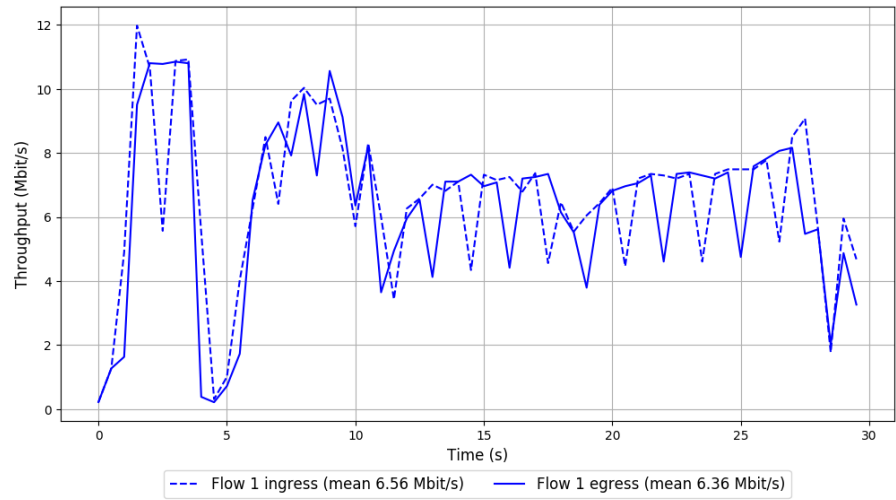
-- Flow 1:

Average throughput: 6.36 Mbit/s

95th percentile per-packet one-way delay: 137.610 ms

Loss rate: 3.81%

### Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-09 06:59:27

End at: 2018-01-09 06:59:57

# Below is generated by plot.py at 2018-01-09 10:58:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 31.58 Mbit/s

95th percentile per-packet one-way delay: 138.890 ms

Loss rate: 3.92%

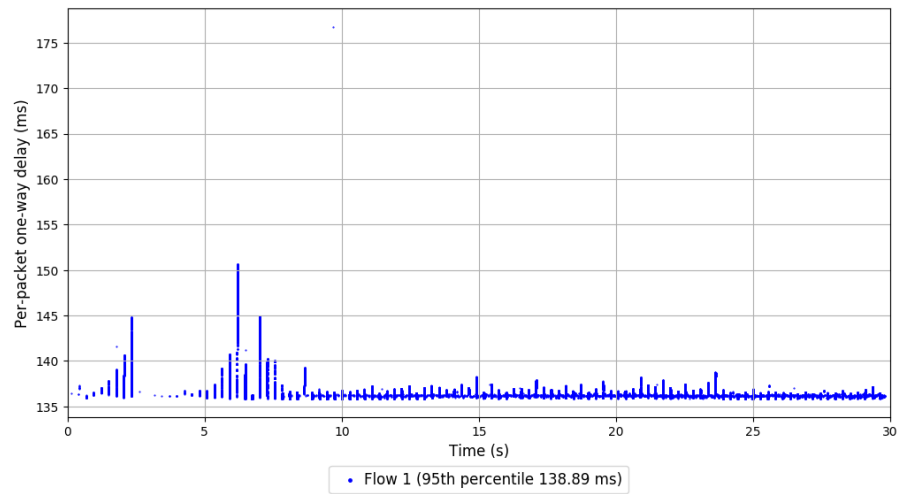
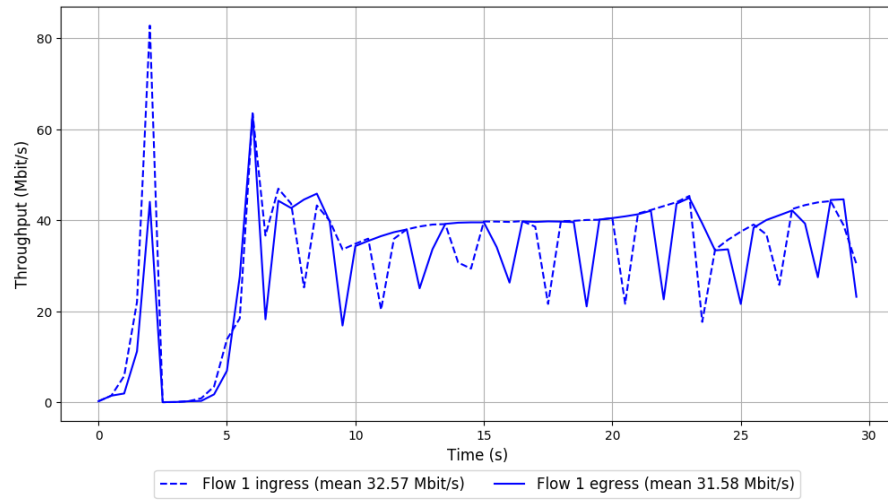
-- Flow 1:

Average throughput: 31.58 Mbit/s

95th percentile per-packet one-way delay: 138.890 ms

Loss rate: 3.92%

## Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-09 07:12:18

End at: 2018-01-09 07:12:48

# Below is generated by plot.py at 2018-01-09 10:58:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 21.82 Mbit/s

95th percentile per-packet one-way delay: 162.002 ms

Loss rate: 1.98%

-- Flow 1:

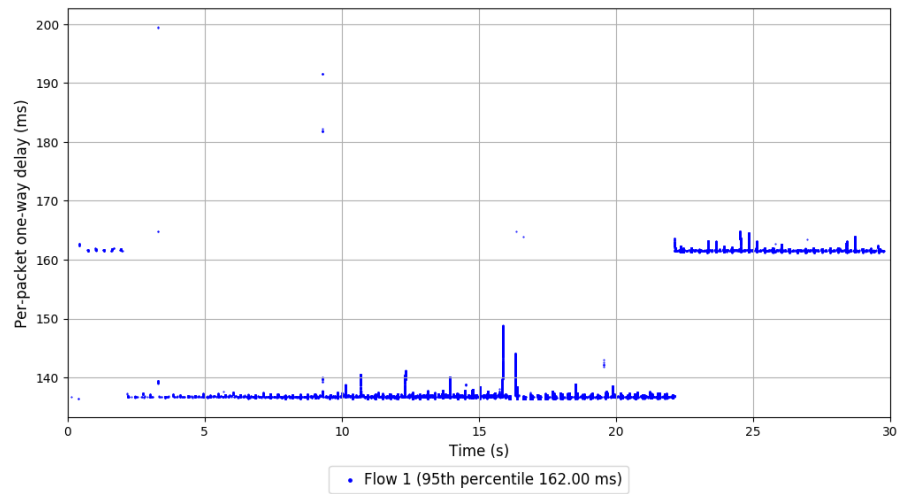
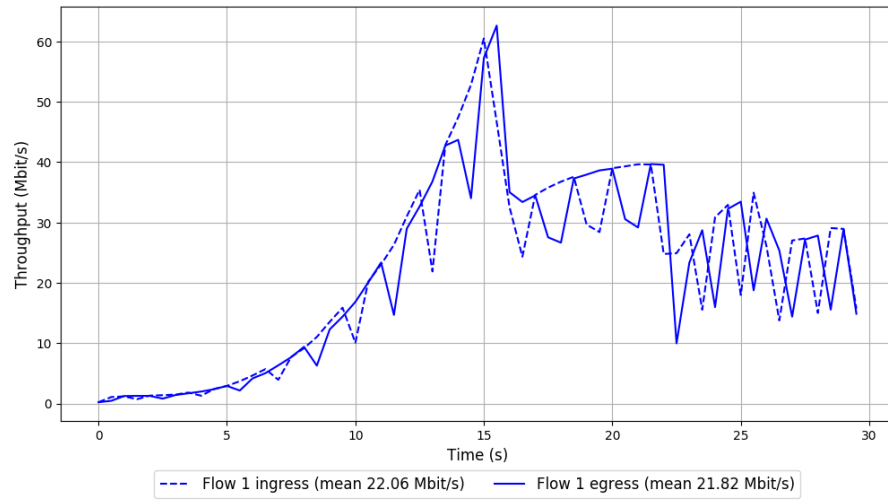
Average throughput: 21.82 Mbit/s

95th percentile per-packet one-way delay: 162.002 ms

Loss rate: 1.98%



### Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-09 07:24:51

End at: 2018-01-09 07:25:21

# Below is generated by plot.py at 2018-01-09 10:58:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 21.49 Mbit/s

95th percentile per-packet one-way delay: 138.766 ms

Loss rate: 1.99%

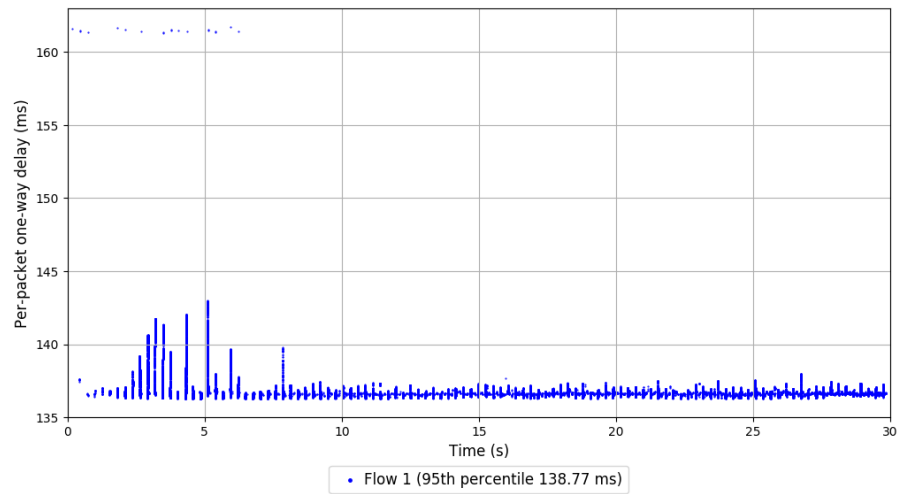
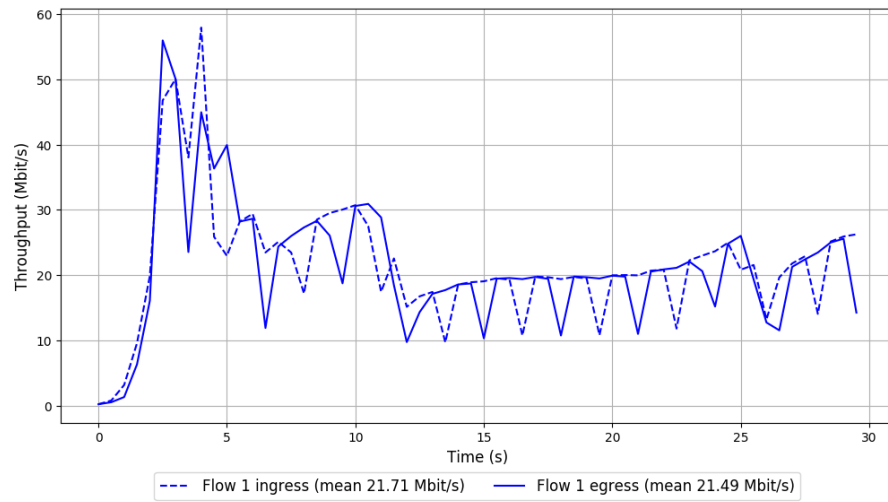
-- Flow 1:

Average throughput: 21.49 Mbit/s

95th percentile per-packet one-way delay: 138.766 ms

Loss rate: 1.99%

#### Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-09 07:37:17

End at: 2018-01-09 07:37:47

# Below is generated by plot.py at 2018-01-09 10:58:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 14.54 Mbit/s

95th percentile per-packet one-way delay: 138.154 ms

Loss rate: 2.11%

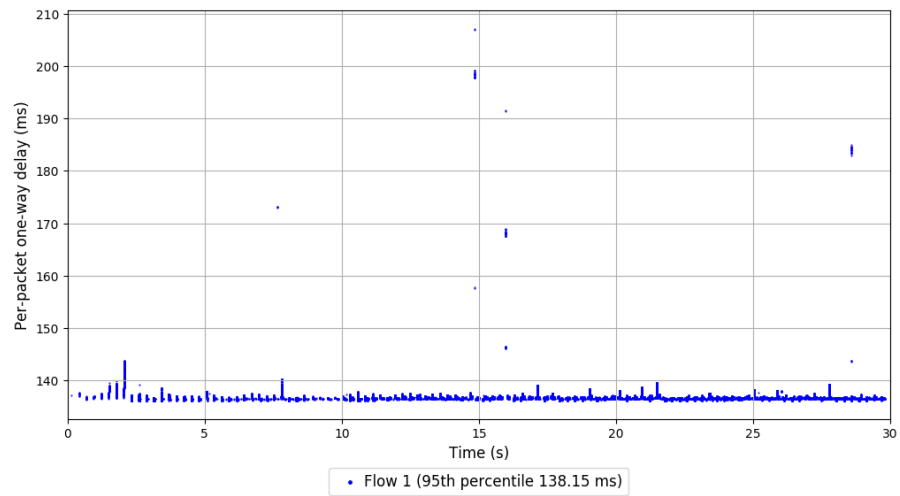
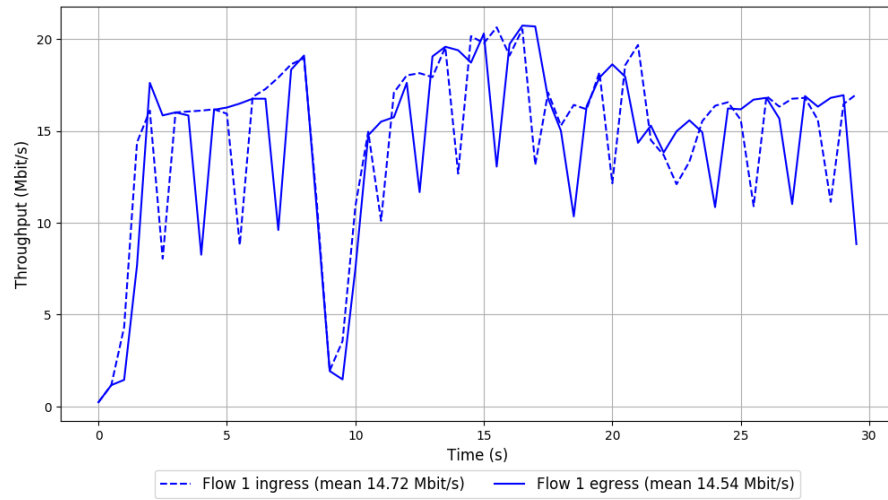
-- Flow 1:

Average throughput: 14.54 Mbit/s

95th percentile per-packet one-way delay: 138.154 ms

Loss rate: 2.11%

### Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-09 07:49:57

End at: 2018-01-09 07:50:27

# Below is generated by plot.py at 2018-01-09 10:58:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 48.02 Mbit/s

95th percentile per-packet one-way delay: 139.841 ms

Loss rate: 1.65%

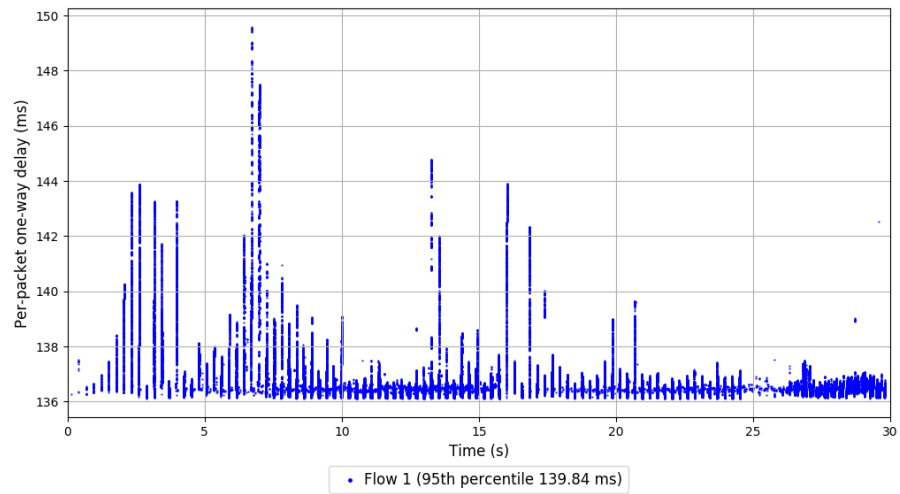
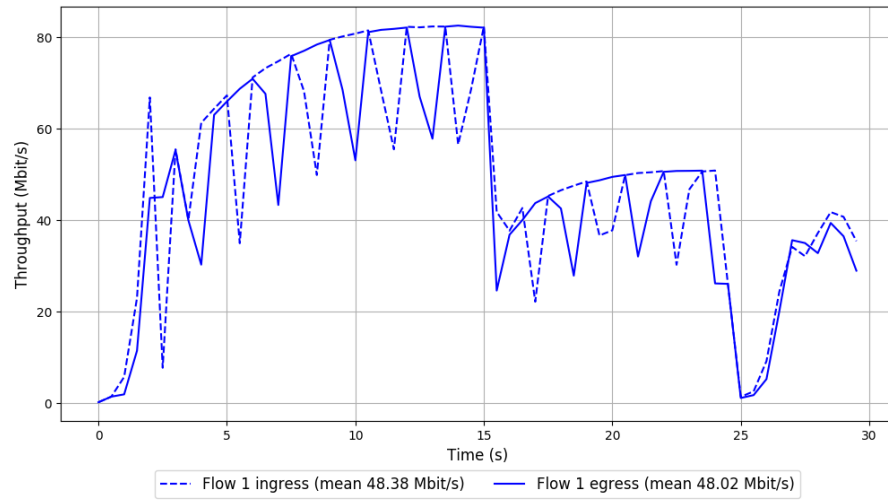
-- Flow 1:

Average throughput: 48.02 Mbit/s

95th percentile per-packet one-way delay: 139.841 ms

Loss rate: 1.65%

## Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-09 08:03:03

End at: 2018-01-09 08:03:33

# Below is generated by plot.py at 2018-01-09 10:58:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 9.35 Mbit/s

95th percentile per-packet one-way delay: 137.085 ms

Loss rate: 3.40%

-- Flow 1:

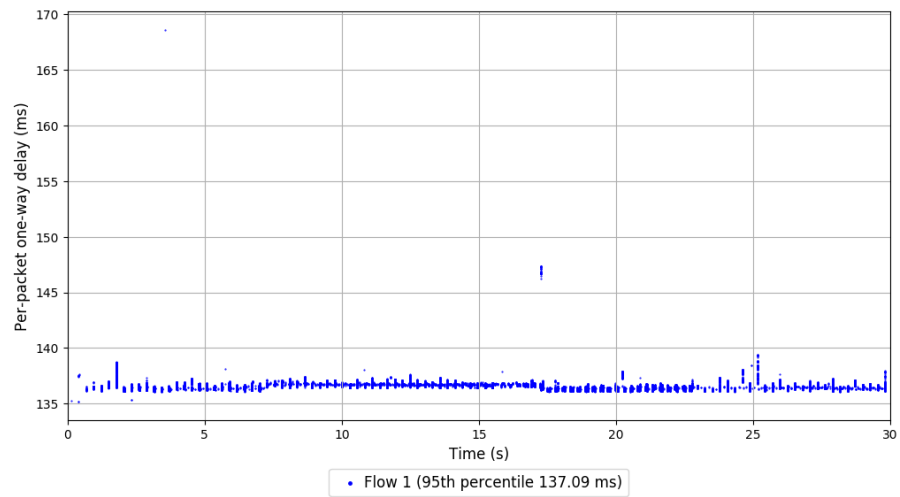
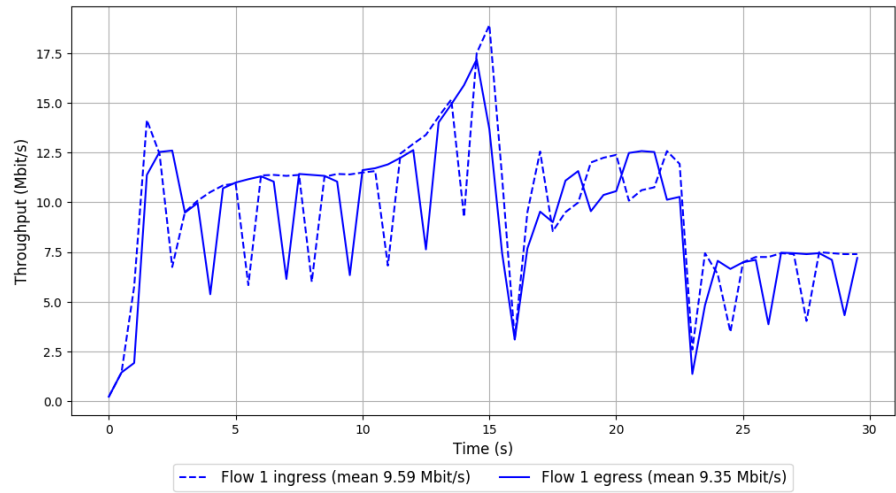
Average throughput: 9.35 Mbit/s

95th percentile per-packet one-way delay: 137.085 ms

Loss rate: 3.40%



## Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-09 08:15:44

End at: 2018-01-09 08:16:14

# Below is generated by plot.py at 2018-01-09 10:58:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 39.84 Mbit/s

95th percentile per-packet one-way delay: 137.880 ms

Loss rate: 2.88%

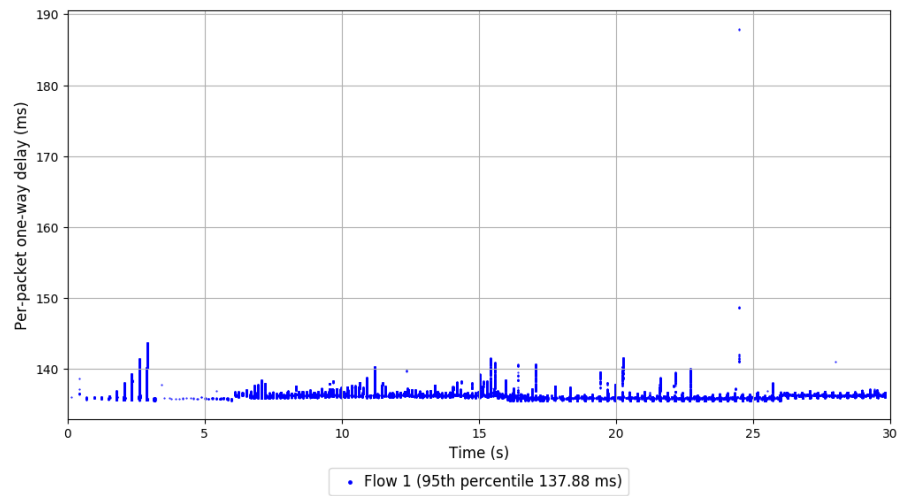
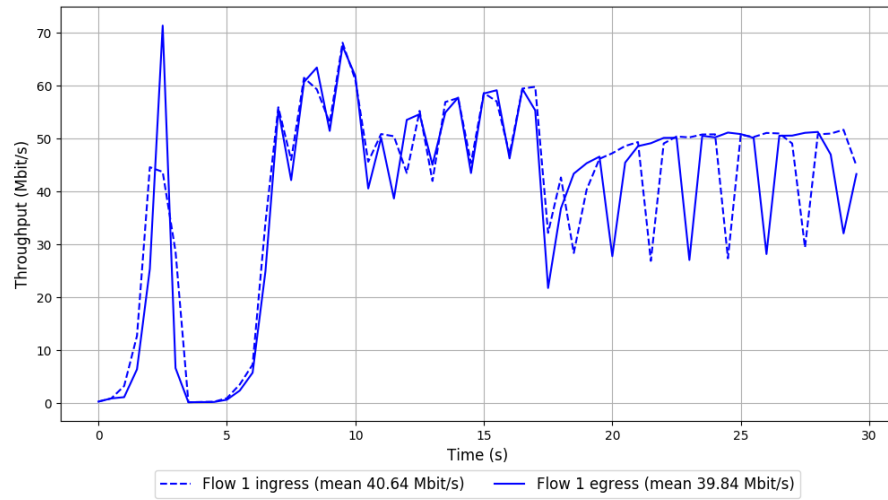
-- Flow 1:

Average throughput: 39.84 Mbit/s

95th percentile per-packet one-way delay: 137.880 ms

Loss rate: 2.88%

### Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-09 08:28:42

End at: 2018-01-09 08:29:12

# Below is generated by plot.py at 2018-01-09 10:58:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 34.43 Mbit/s

95th percentile per-packet one-way delay: 138.327 ms

Loss rate: 1.17%

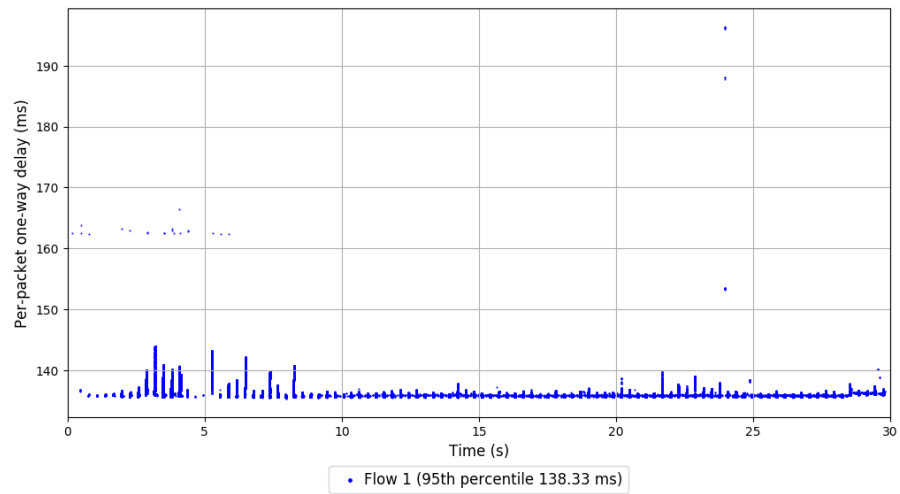
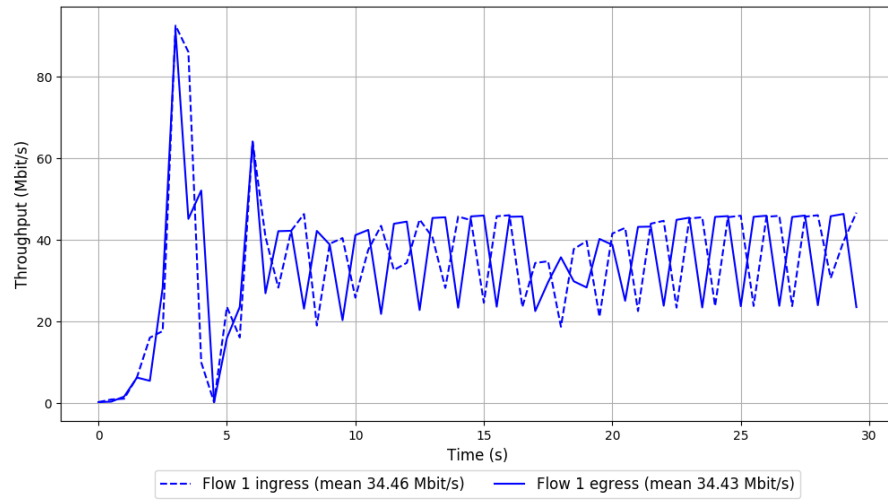
-- Flow 1:

Average throughput: 34.43 Mbit/s

95th percentile per-packet one-way delay: 138.327 ms

Loss rate: 1.17%

### Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-09 08:41:52

End at: 2018-01-09 08:42:22

# Below is generated by plot.py at 2018-01-09 10:58:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.75 Mbit/s

95th percentile per-packet one-way delay: 164.298 ms

Loss rate: 2.73%

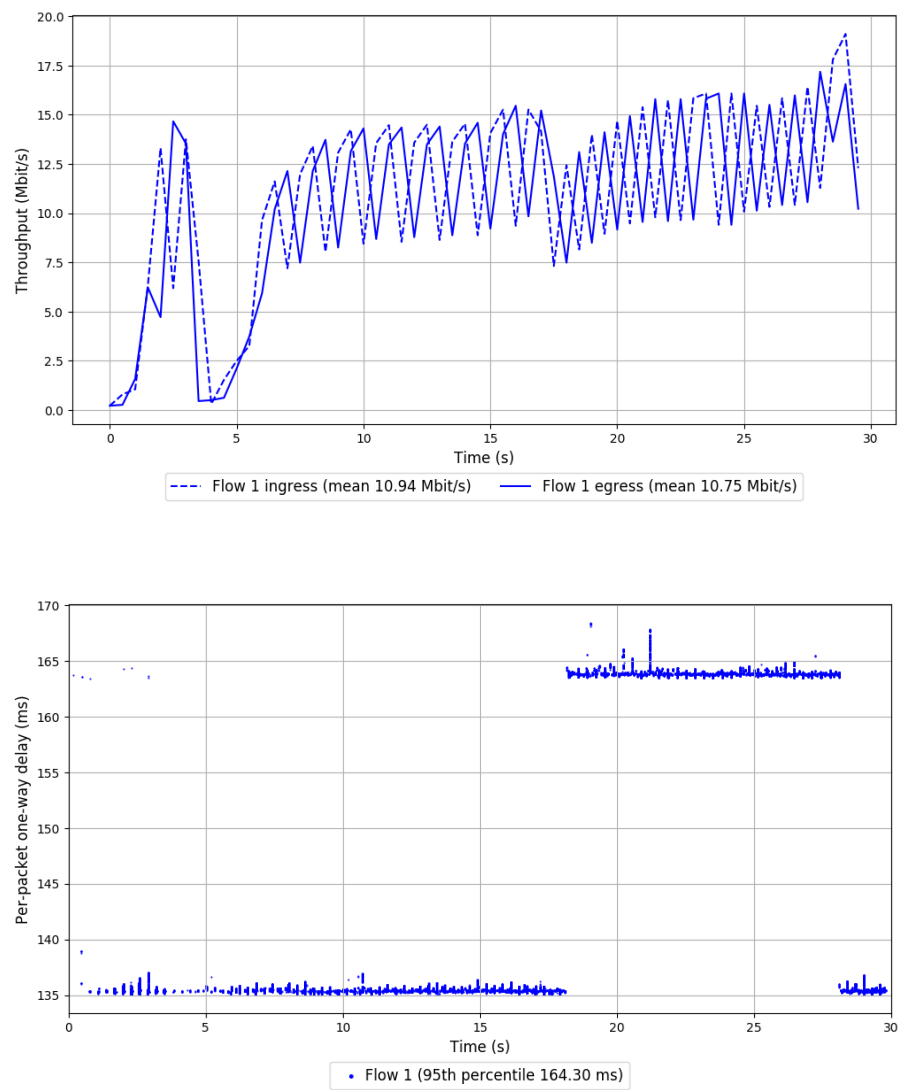
-- Flow 1:

Average throughput: 10.75 Mbit/s

95th percentile per-packet one-way delay: 164.298 ms

Loss rate: 2.73%

Run 10: Report of TCP Cubic — Data Link



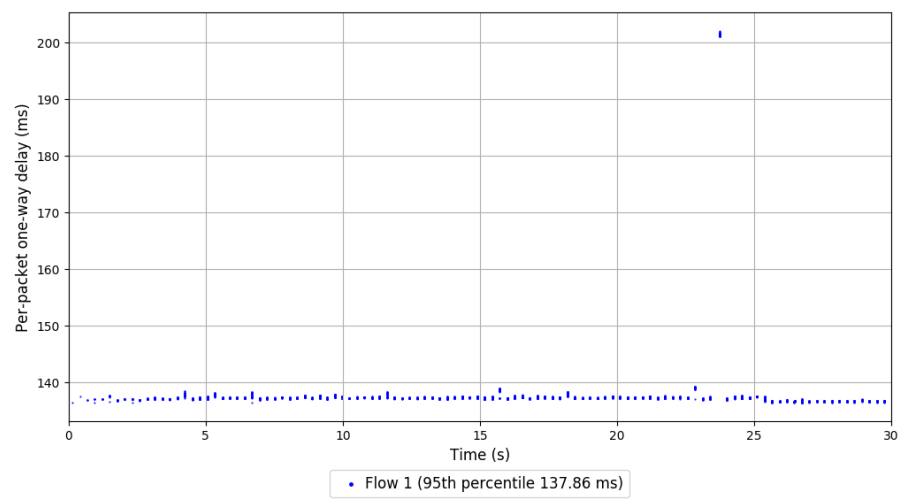
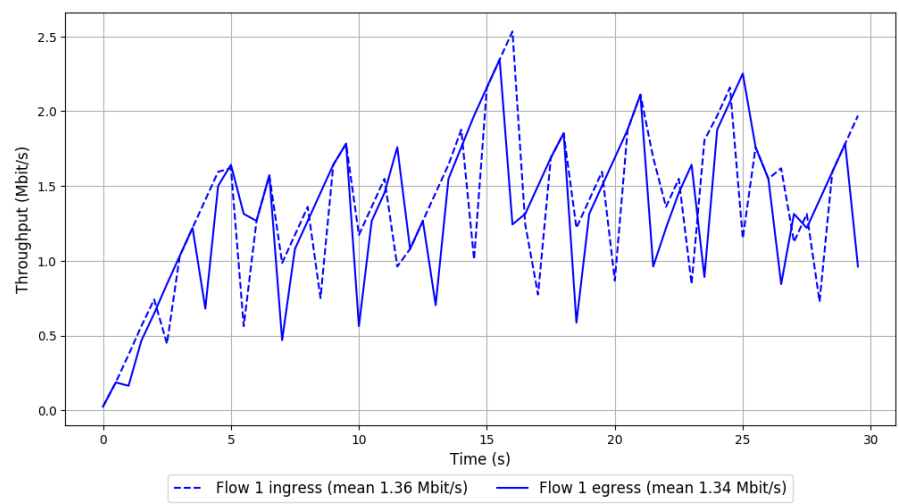
```
Run 1: Statistics of LEDBAT

Start at: 2018-01-09 06:36:35
End at: 2018-01-09 06:37:05

# Below is generated by plot.py at 2018-01-09 10:58:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 137.856 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 137.856 ms
Loss rate: 2.11%
```



Run 1: Report of LEDBAT — Data Link

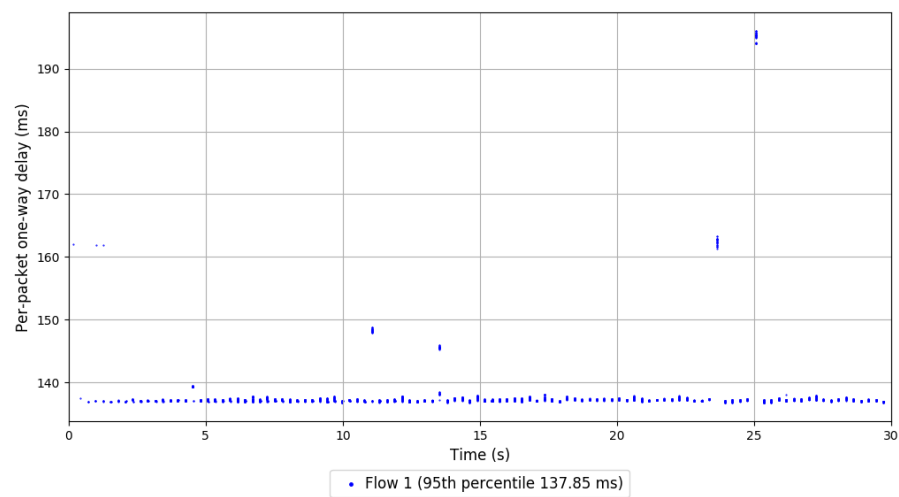
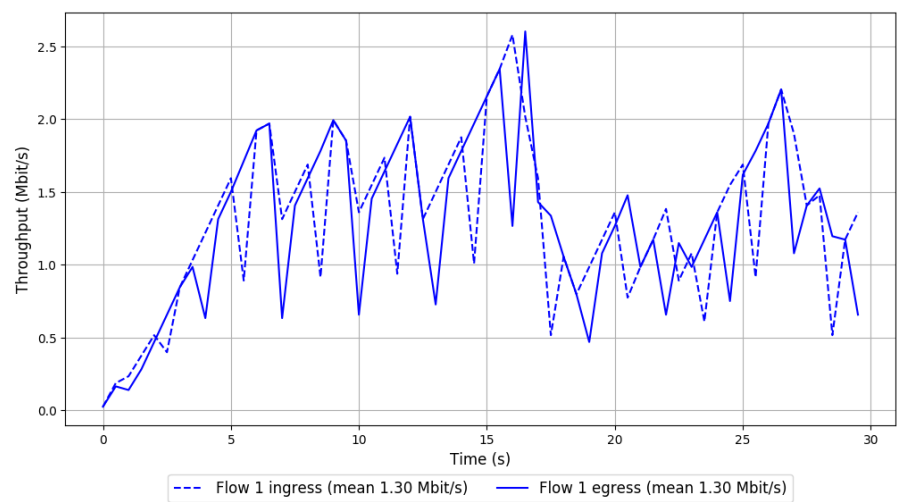


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-09 06:49:32
End at: 2018-01-09 06:50:02

# Below is generated by plot.py at 2018-01-09 10:58:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 137.849 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 137.849 ms
Loss rate: 1.11%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-09 07:02:22

End at: 2018-01-09 07:02:52

# Below is generated by plot.py at 2018-01-09 10:58:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 137.803 ms

Loss rate: 1.62%

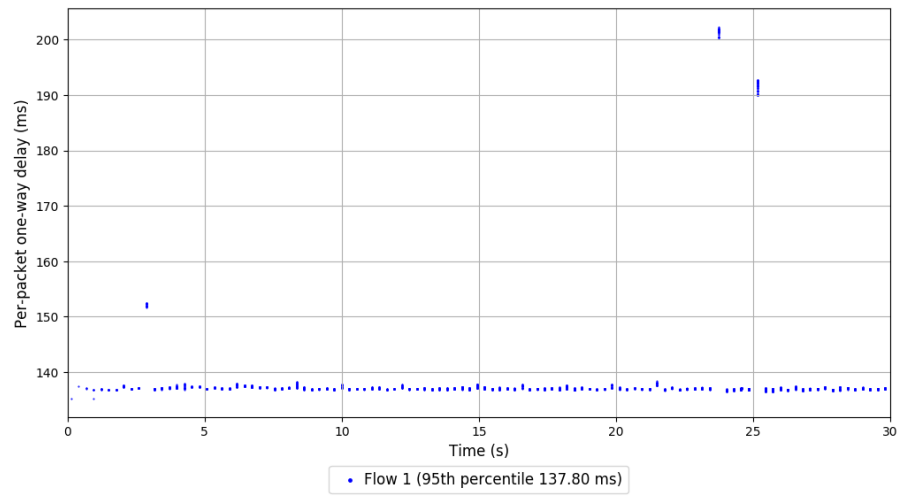
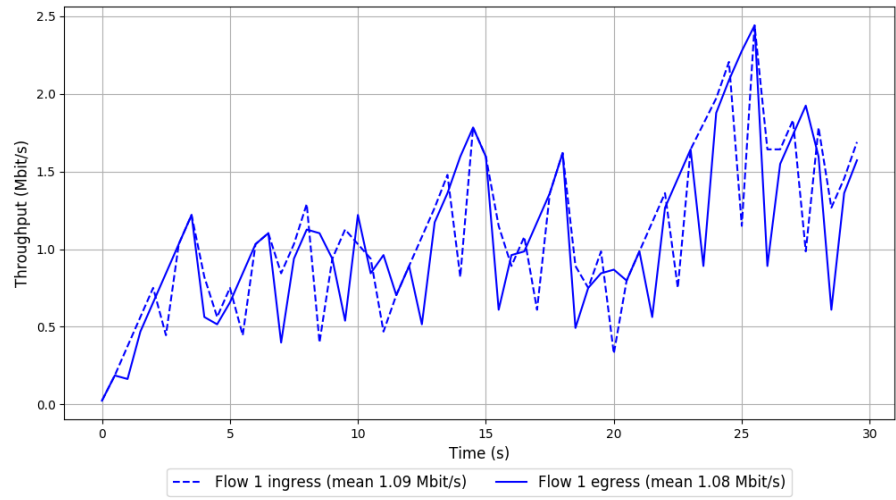
-- Flow 1:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 137.803 ms

Loss rate: 1.62%

### Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-09 07:15:21

End at: 2018-01-09 07:15:51

# Below is generated by plot.py at 2018-01-09 10:58:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 162.005 ms

Loss rate: 1.47%

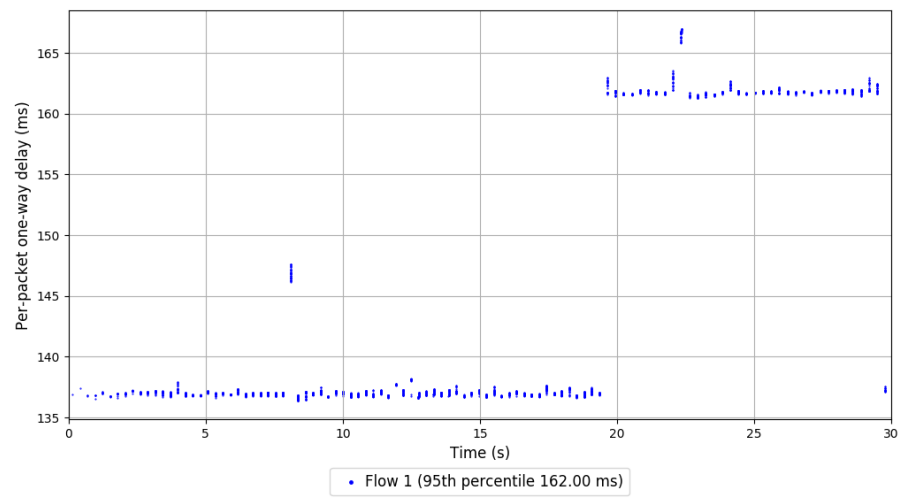
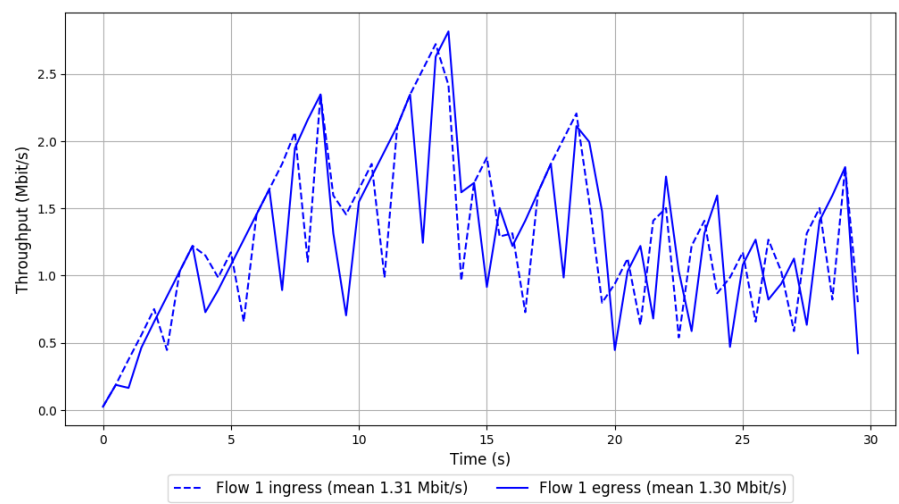
-- Flow 1:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 162.005 ms

Loss rate: 1.47%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-09 07:27:52

End at: 2018-01-09 07:28:22

# Below is generated by plot.py at 2018-01-09 10:58:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 163.027 ms

Loss rate: 1.39%

-- Flow 1:

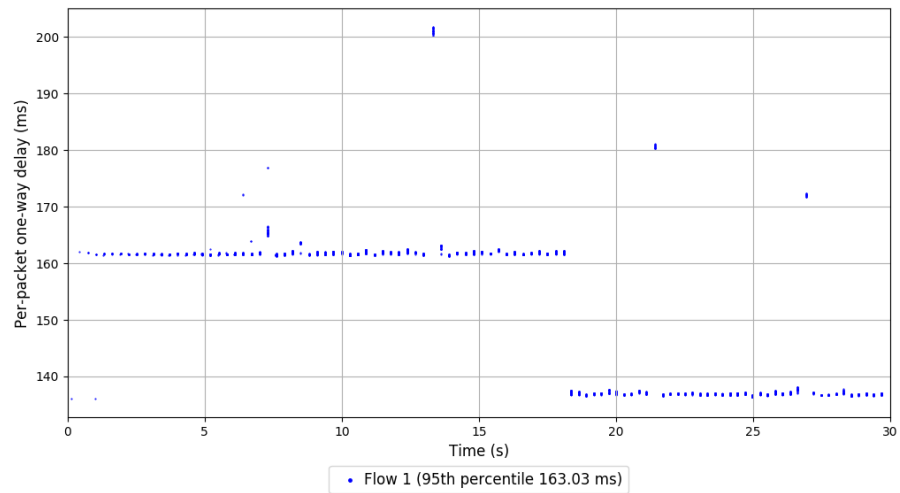
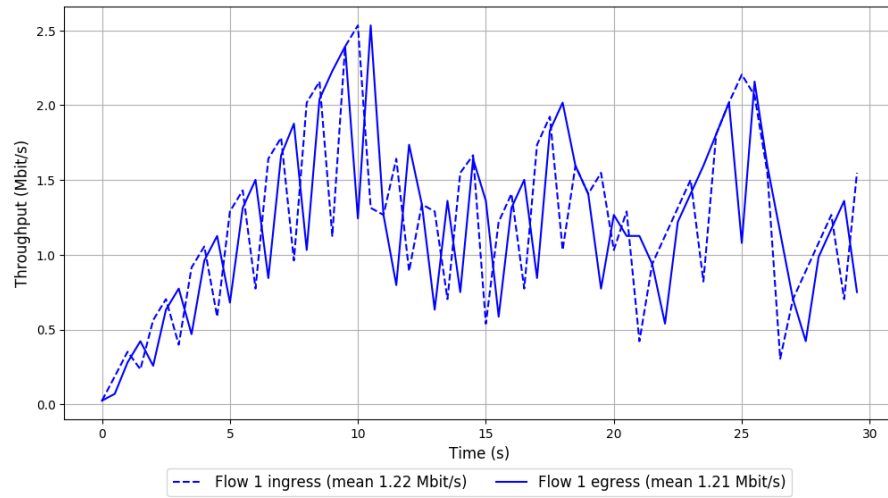
Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 163.027 ms

Loss rate: 1.39%



### Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-09 07:40:15

End at: 2018-01-09 07:40:45

# Below is generated by plot.py at 2018-01-09 10:58:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 161.859 ms

Loss rate: 0.84%

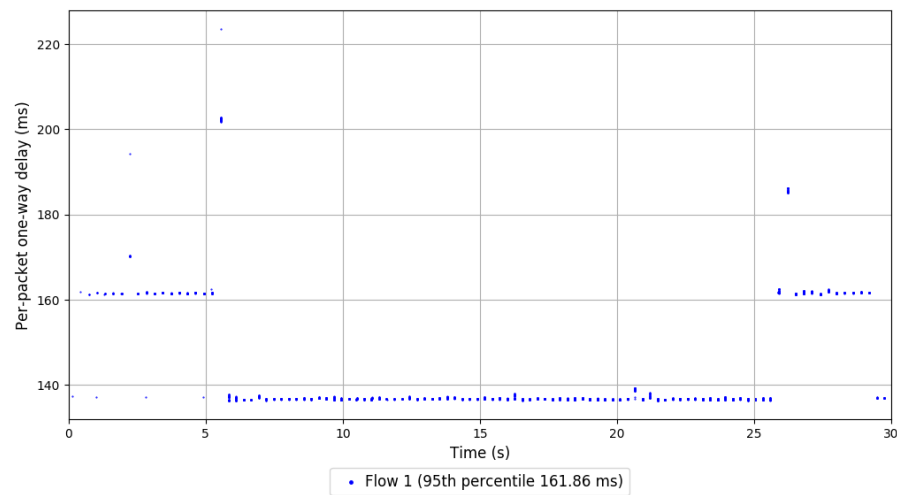
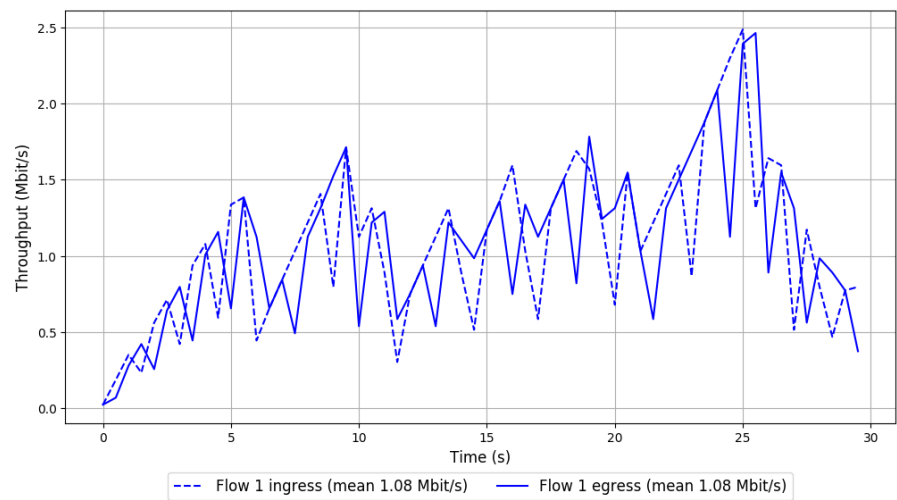
-- Flow 1:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 161.859 ms

Loss rate: 0.84%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-09 07:52:59

End at: 2018-01-09 07:53:29

# Below is generated by plot.py at 2018-01-09 10:58:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 137.973 ms

Loss rate: 2.28%

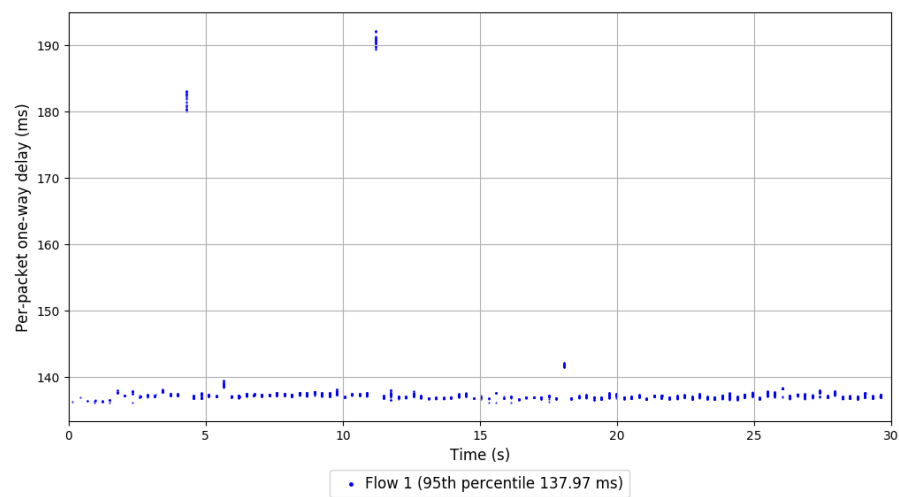
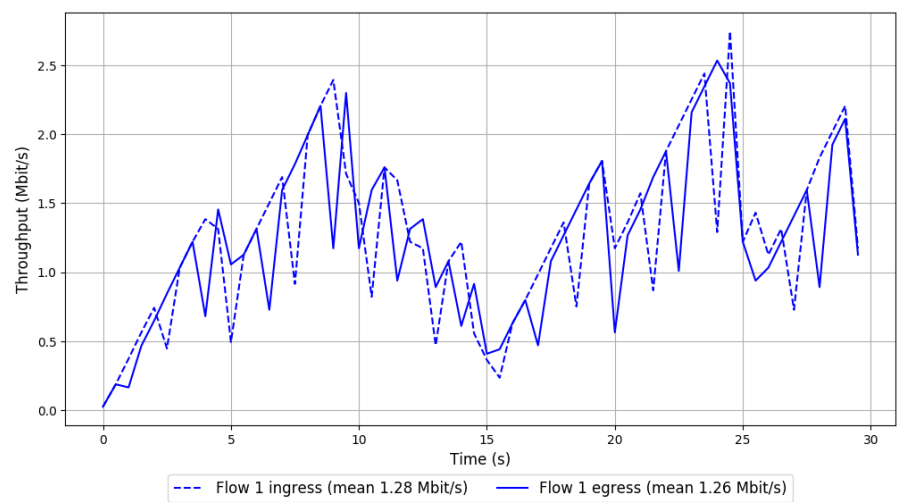
-- Flow 1:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 137.973 ms

Loss rate: 2.28%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-09 08:06:03

End at: 2018-01-09 08:06:33

# Below is generated by plot.py at 2018-01-09 10:58:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 137.375 ms

Loss rate: 1.53%

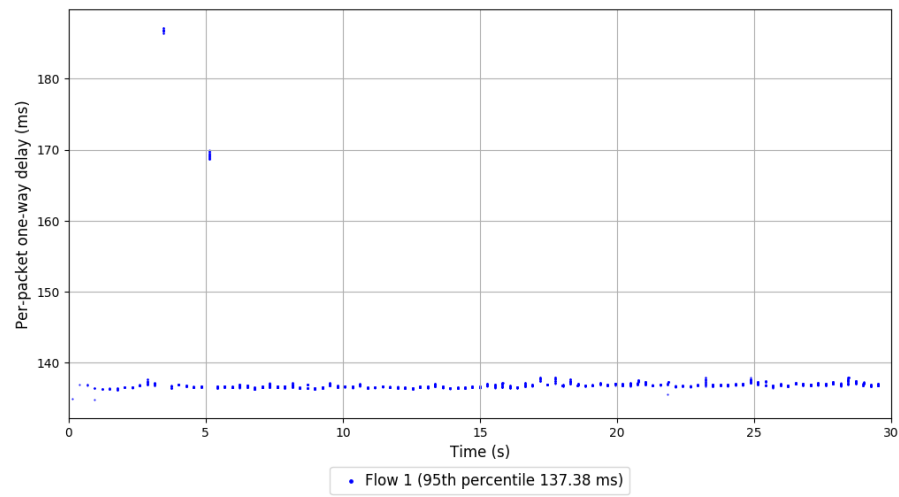
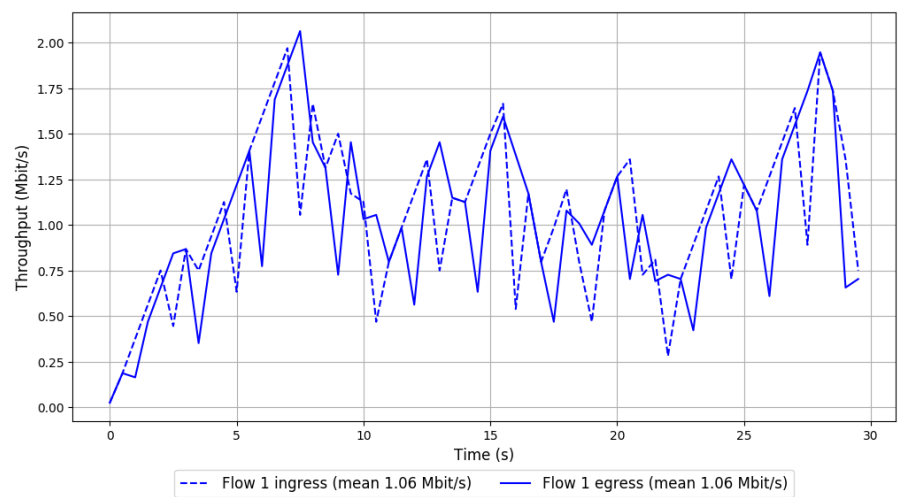
-- Flow 1:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 137.375 ms

Loss rate: 1.53%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-09 08:18:40

End at: 2018-01-09 08:19:10

# Below is generated by plot.py at 2018-01-09 10:58:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.13 Mbit/s

95th percentile per-packet one-way delay: 136.861 ms

Loss rate: 2.00%

-- Flow 1:

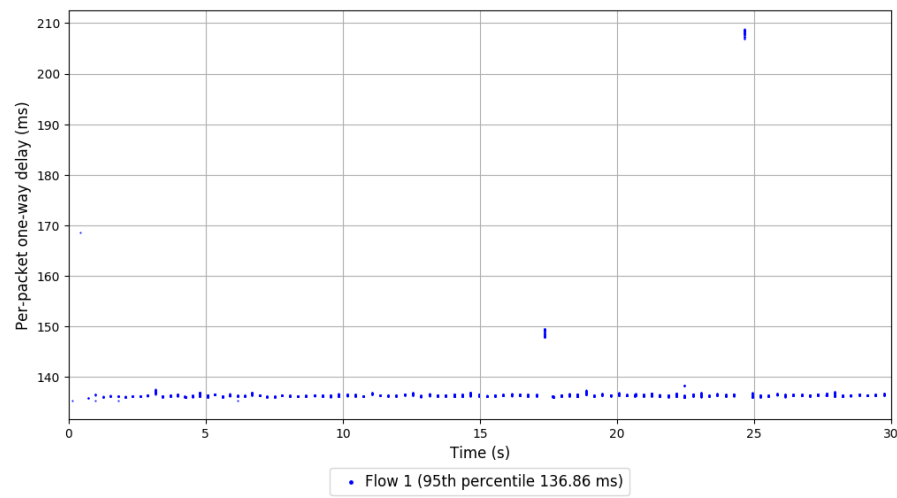
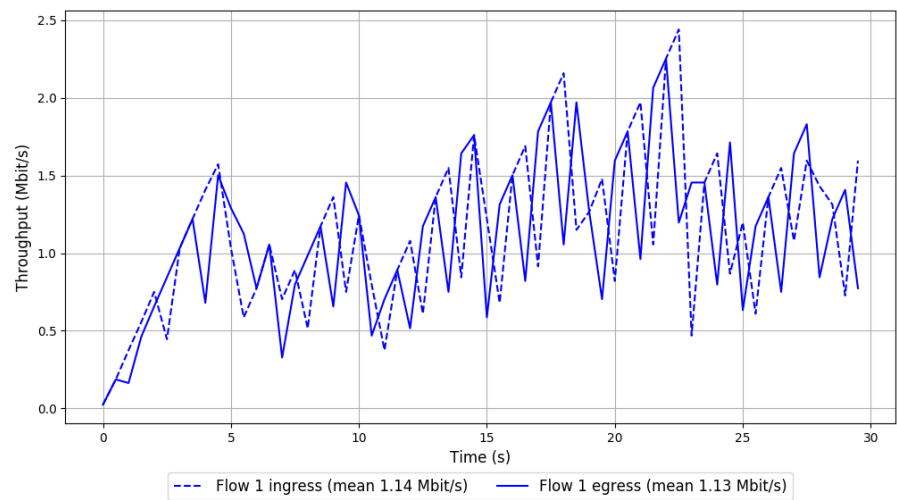
Average throughput: 1.13 Mbit/s

95th percentile per-packet one-way delay: 136.861 ms

Loss rate: 2.00%



Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-09 08:31:47

End at: 2018-01-09 08:32:17

# Below is generated by plot.py at 2018-01-09 10:58:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 137.320 ms

Loss rate: 1.98%

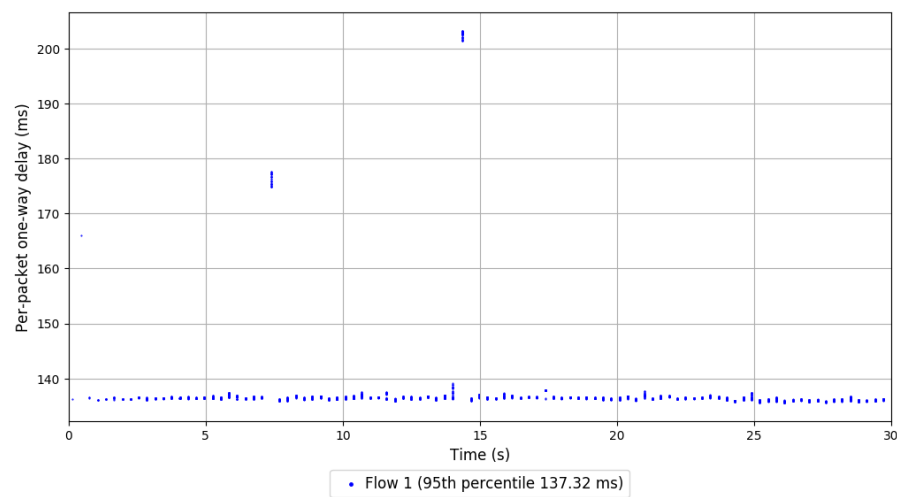
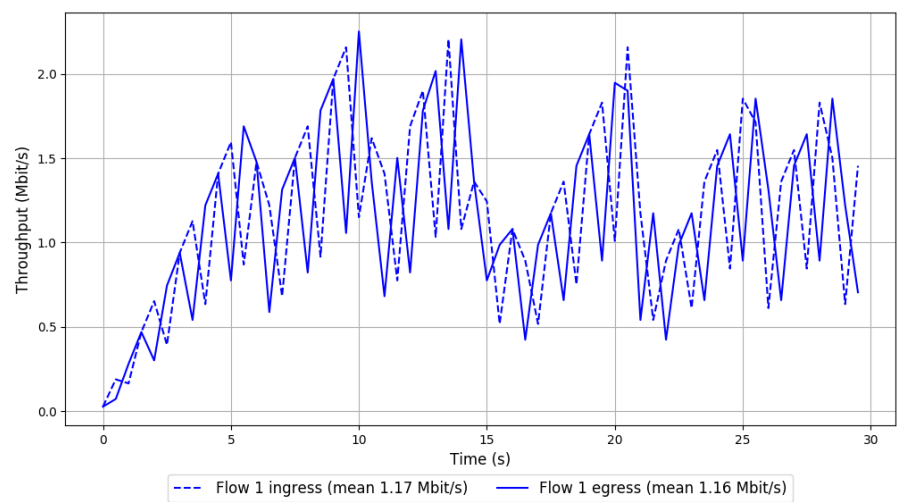
-- Flow 1:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 137.320 ms

Loss rate: 1.98%

Run 10: Report of LEDBAT — Data Link

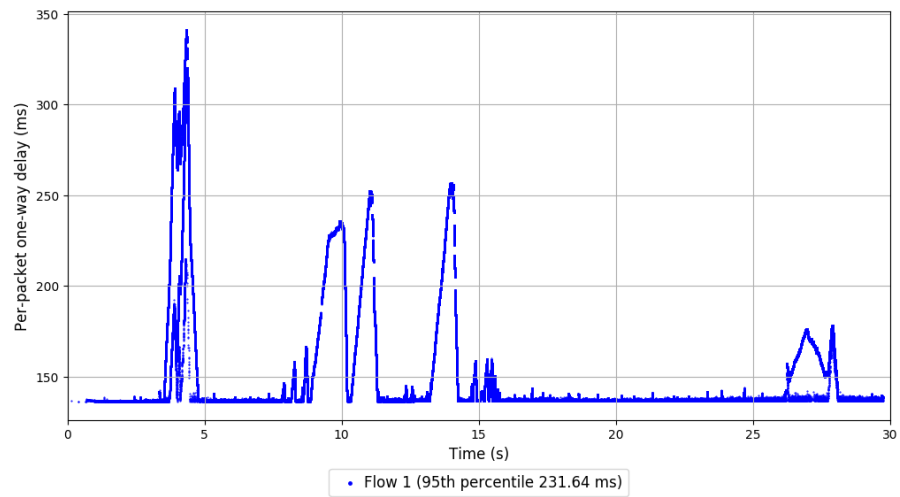
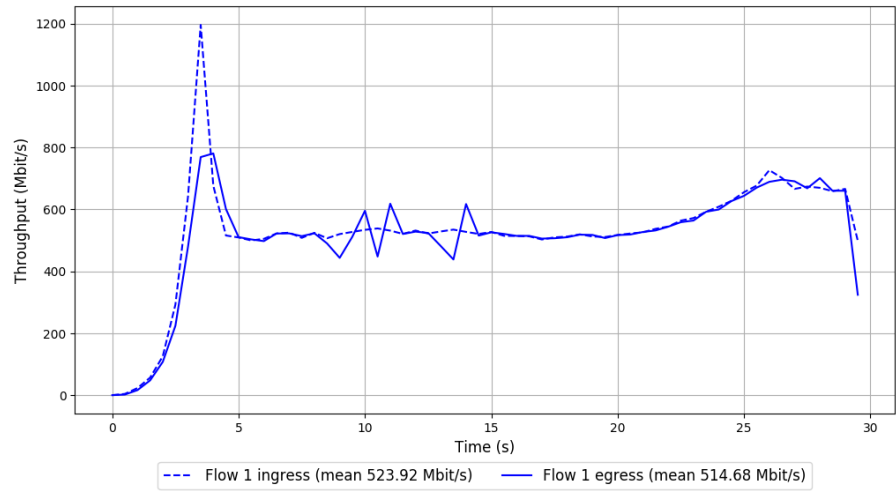


```
Run 1: Statistics of PCC

Start at: 2018-01-09 06:39:15
End at: 2018-01-09 06:39:45

# Below is generated by plot.py at 2018-01-09 11:05:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 514.68 Mbit/s
95th percentile per-packet one-way delay: 231.637 ms
Loss rate: 2.66%
-- Flow 1:
Average throughput: 514.68 Mbit/s
95th percentile per-packet one-way delay: 231.637 ms
Loss rate: 2.66%
```

### Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-09 06:52:05

End at: 2018-01-09 06:52:35

# Below is generated by plot.py at 2018-01-09 11:06:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 578.79 Mbit/s

95th percentile per-packet one-way delay: 224.400 ms

Loss rate: 3.70%

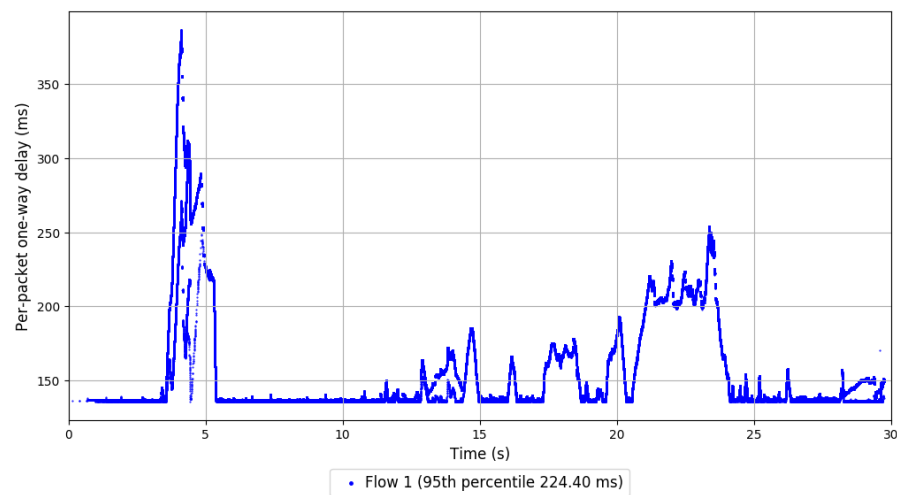
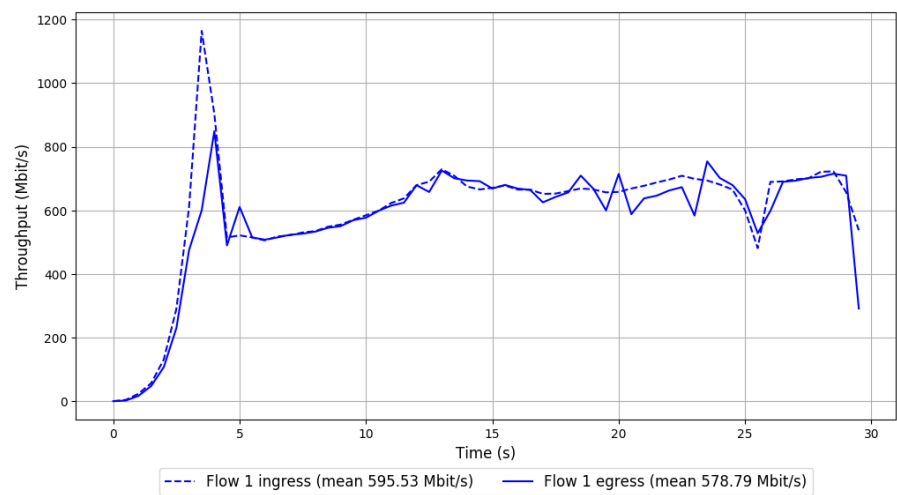
-- Flow 1:

Average throughput: 578.79 Mbit/s

95th percentile per-packet one-way delay: 224.400 ms

Loss rate: 3.70%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-09 07:04:48

End at: 2018-01-09 07:05:18

# Below is generated by plot.py at 2018-01-09 11:06:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 540.57 Mbit/s

95th percentile per-packet one-way delay: 181.060 ms

Loss rate: 2.43%

-- Flow 1:

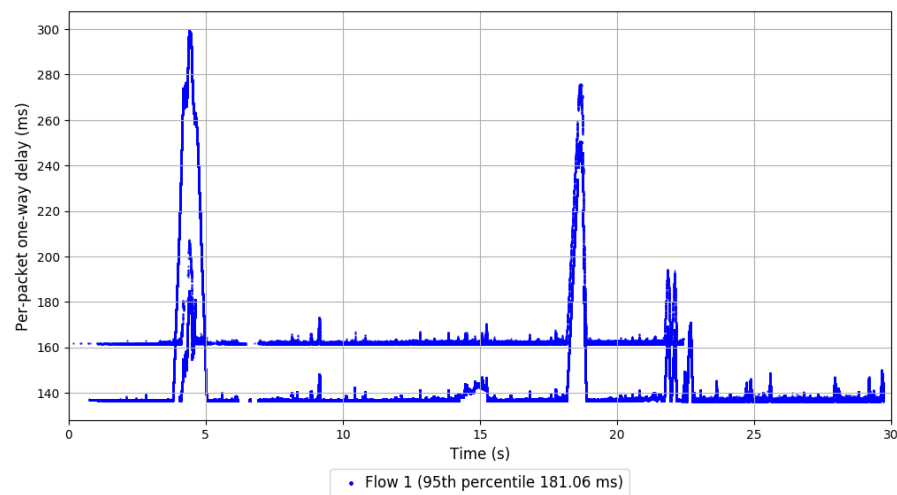
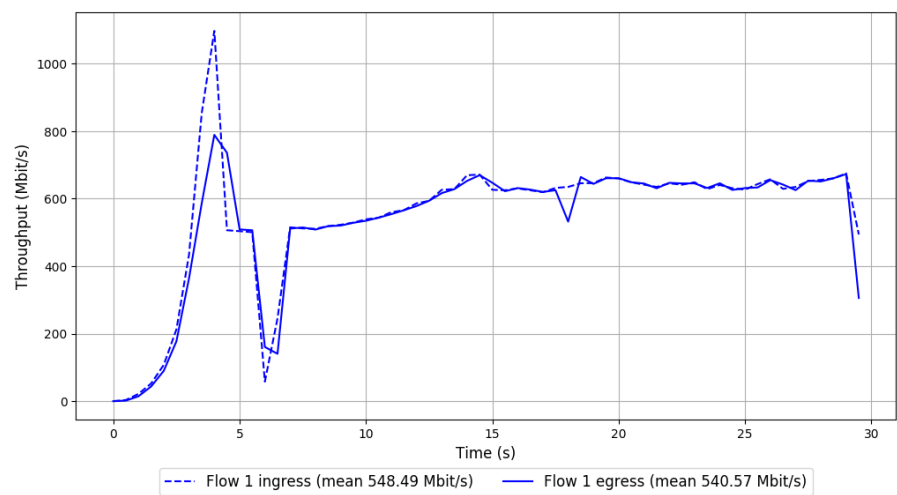
Average throughput: 540.57 Mbit/s

95th percentile per-packet one-way delay: 181.060 ms

Loss rate: 2.43%



Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-09 07:17:42

End at: 2018-01-09 07:18:12

# Below is generated by plot.py at 2018-01-09 11:06:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 521.65 Mbit/s

95th percentile per-packet one-way delay: 252.329 ms

Loss rate: 3.45%

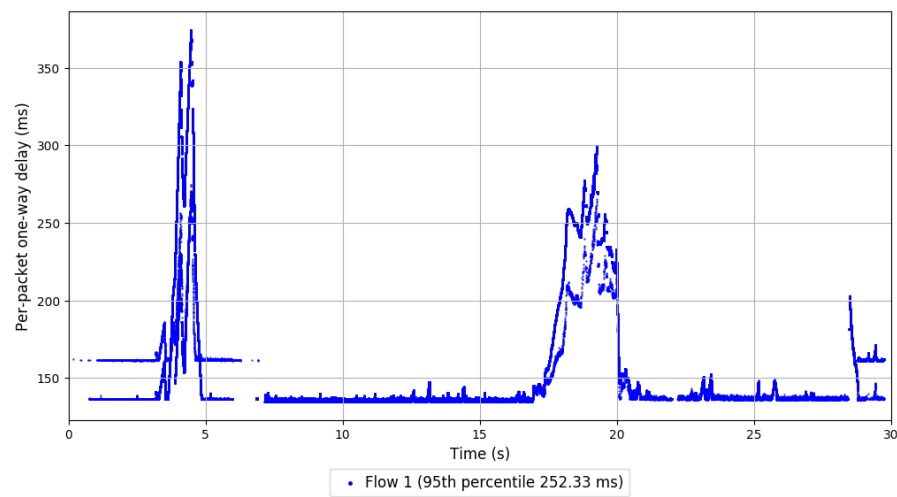
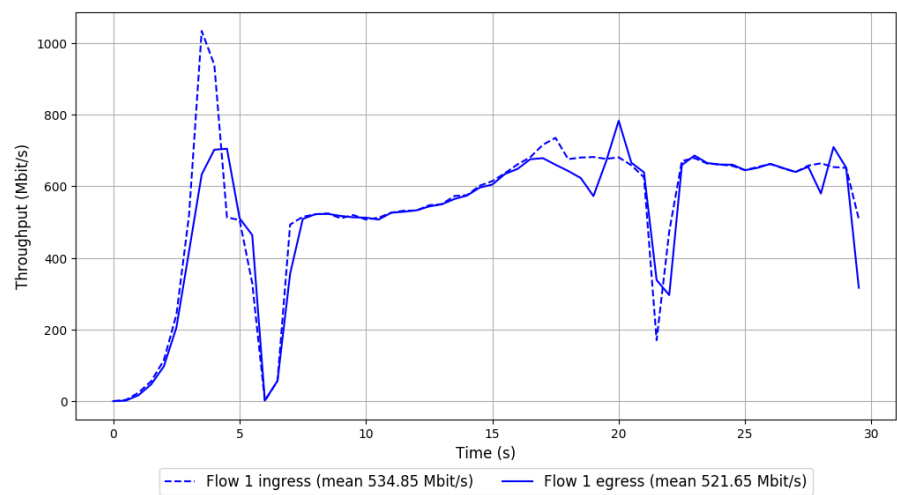
-- Flow 1:

Average throughput: 521.65 Mbit/s

95th percentile per-packet one-way delay: 252.329 ms

Loss rate: 3.45%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

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

End at: 2018-01-09 07:30:39

# Below is generated by plot.py at 2018-01-09 11:06:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 474.00 Mbit/s

95th percentile per-packet one-way delay: 196.651 ms

Loss rate: 2.92%

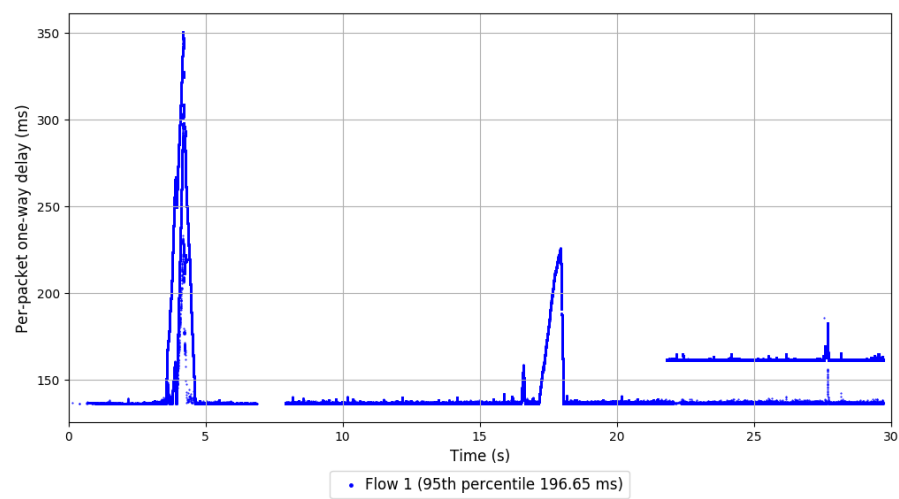
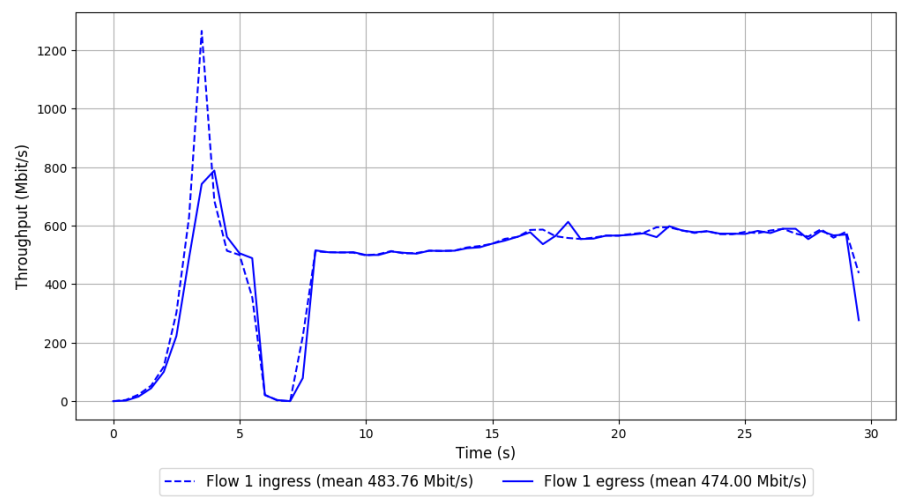
-- Flow 1:

Average throughput: 474.00 Mbit/s

95th percentile per-packet one-way delay: 196.651 ms

Loss rate: 2.92%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-09 07:42:36

End at: 2018-01-09 07:43:06

# Below is generated by plot.py at 2018-01-09 11:06:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 537.57 Mbit/s

95th percentile per-packet one-way delay: 185.816 ms

Loss rate: 2.11%

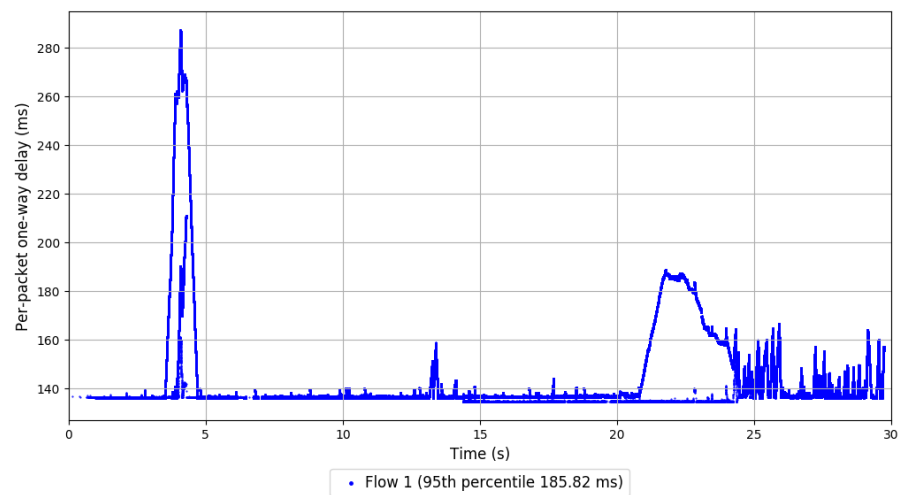
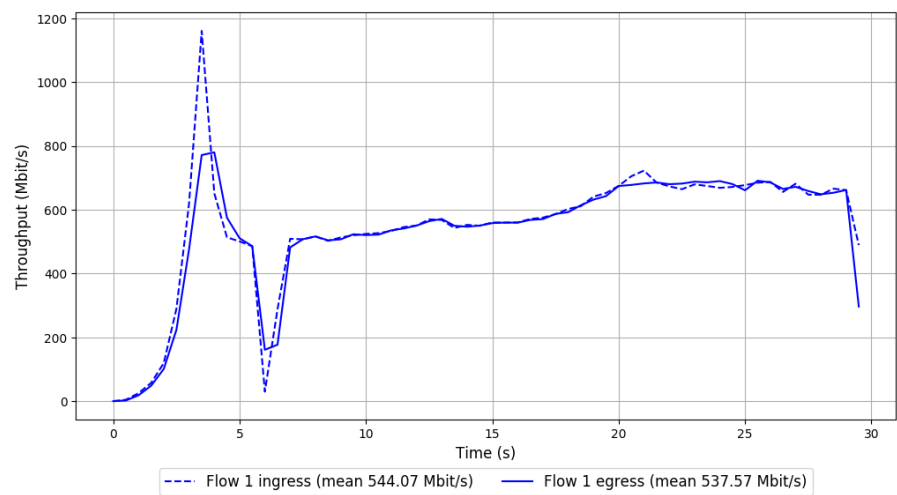
-- Flow 1:

Average throughput: 537.57 Mbit/s

95th percentile per-packet one-way delay: 185.816 ms

Loss rate: 2.11%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-09 07:55:39

End at: 2018-01-09 07:56:09

# Below is generated by plot.py at 2018-01-09 11:06:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 534.97 Mbit/s

95th percentile per-packet one-way delay: 169.362 ms

Loss rate: 2.55%

-- Flow 1:

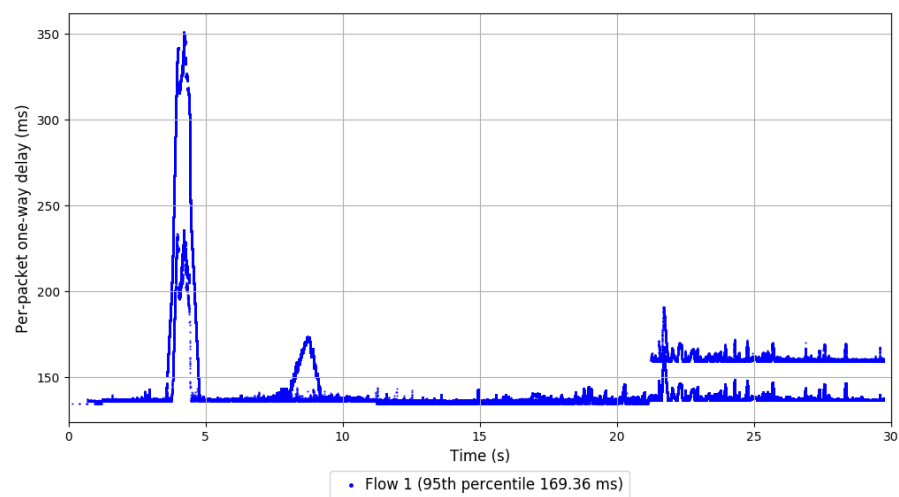
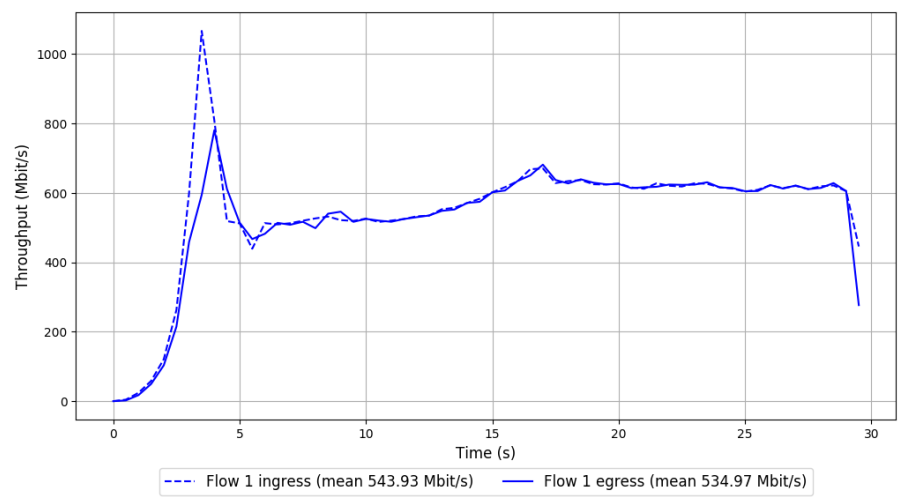
Average throughput: 534.97 Mbit/s

95th percentile per-packet one-way delay: 169.362 ms

Loss rate: 2.55%



Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-09 08:08:27

End at: 2018-01-09 08:08:57

# Below is generated by plot.py at 2018-01-09 11:06:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 511.15 Mbit/s

95th percentile per-packet one-way delay: 206.982 ms

Loss rate: 1.96%

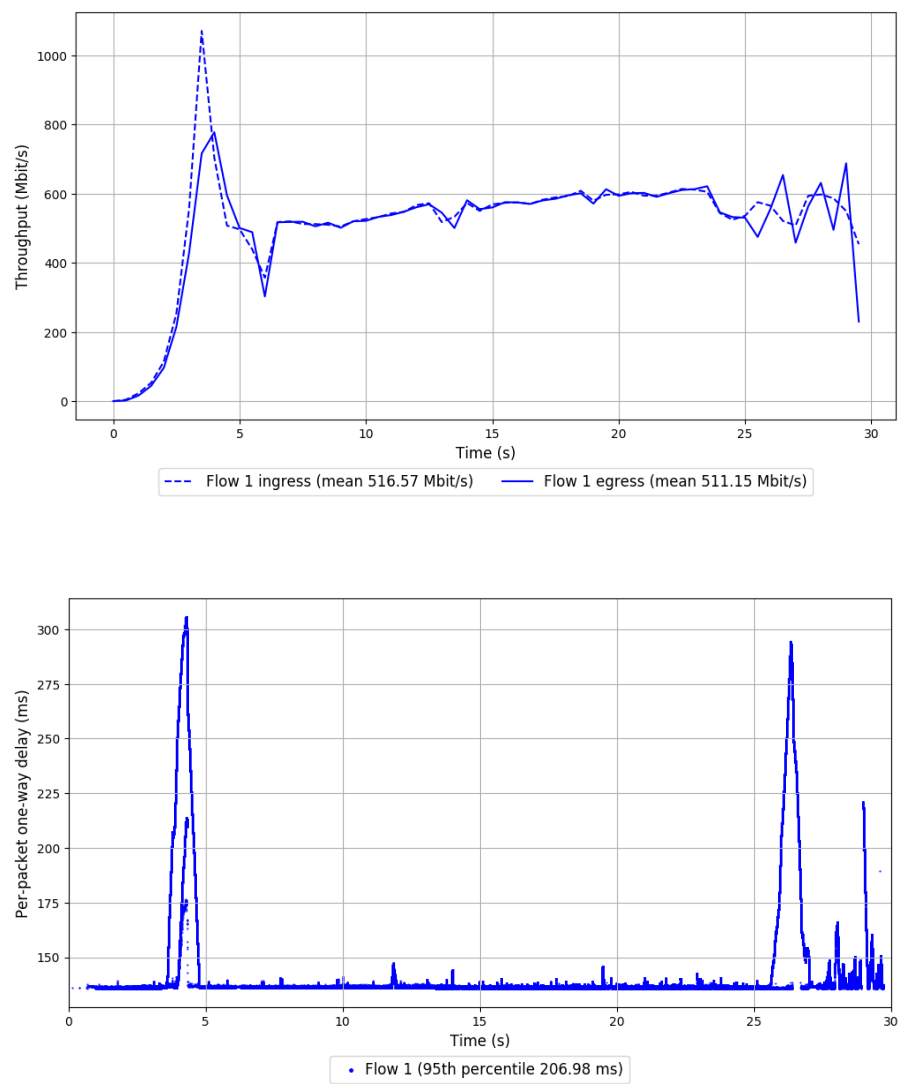
-- Flow 1:

Average throughput: 511.15 Mbit/s

95th percentile per-packet one-way delay: 206.982 ms

Loss rate: 1.96%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-09 08:21:15

End at: 2018-01-09 08:21:45

# Below is generated by plot.py at 2018-01-09 11:14:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 532.96 Mbit/s

95th percentile per-packet one-way delay: 219.055 ms

Loss rate: 2.73%

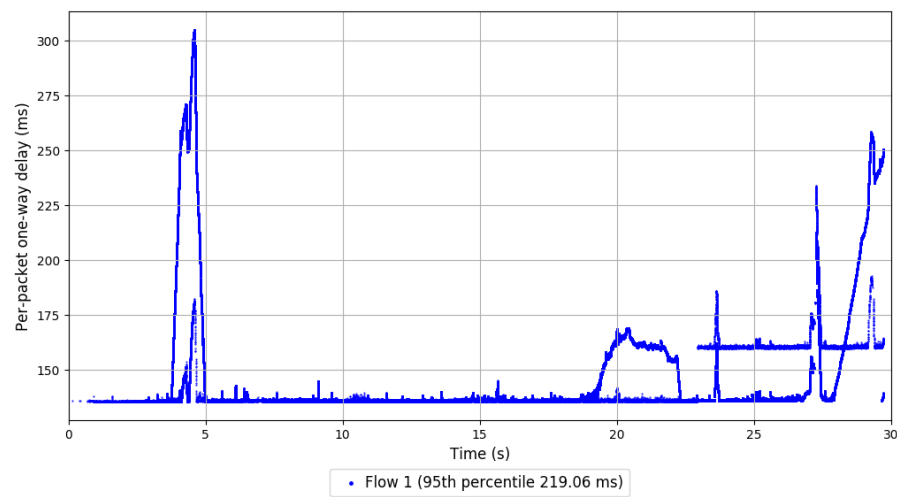
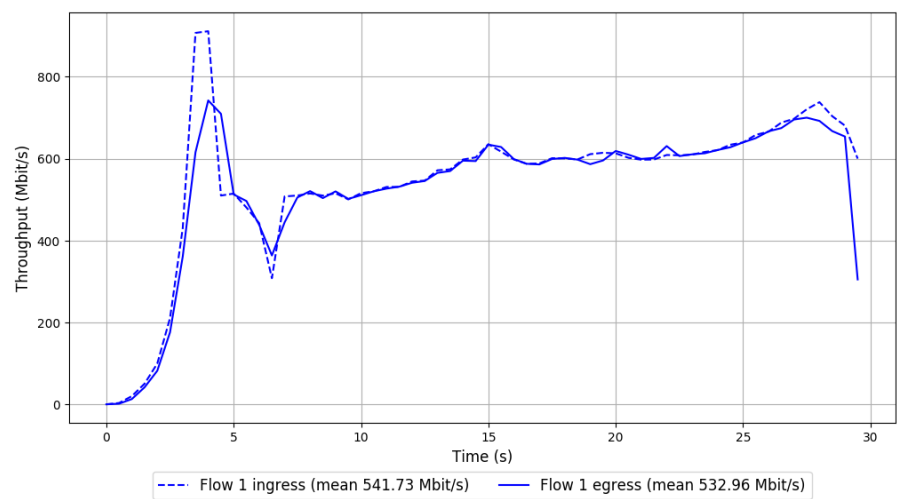
-- Flow 1:

Average throughput: 532.96 Mbit/s

95th percentile per-packet one-way delay: 219.055 ms

Loss rate: 2.73%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-09 08:34:28

End at: 2018-01-09 08:34:58

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 537.46 Mbit/s

95th percentile per-packet one-way delay: 244.833 ms

Loss rate: 3.09%

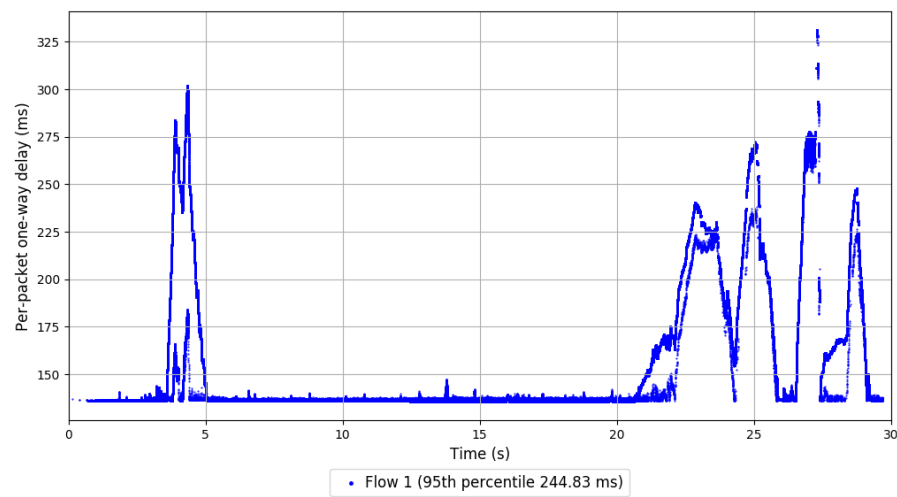
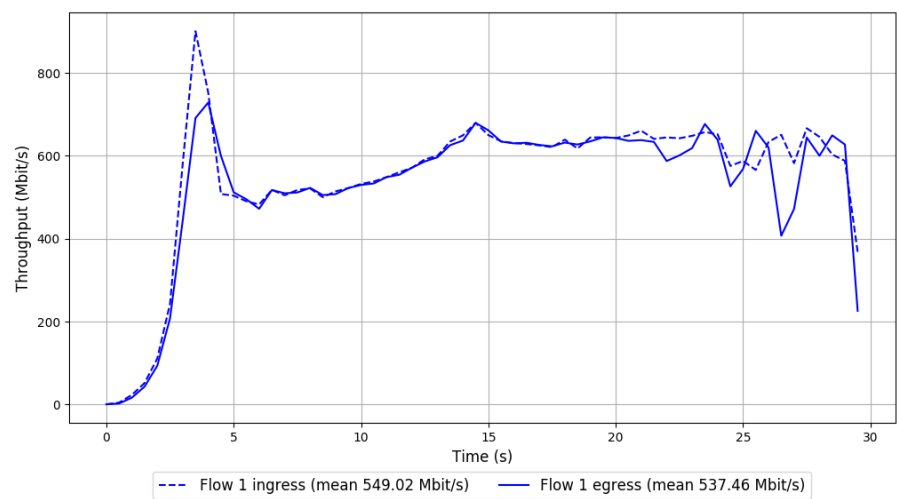
-- Flow 1:

Average throughput: 537.46 Mbit/s

95th percentile per-packet one-way delay: 244.833 ms

Loss rate: 3.09%

Run 10: Report of PCC — Data Link



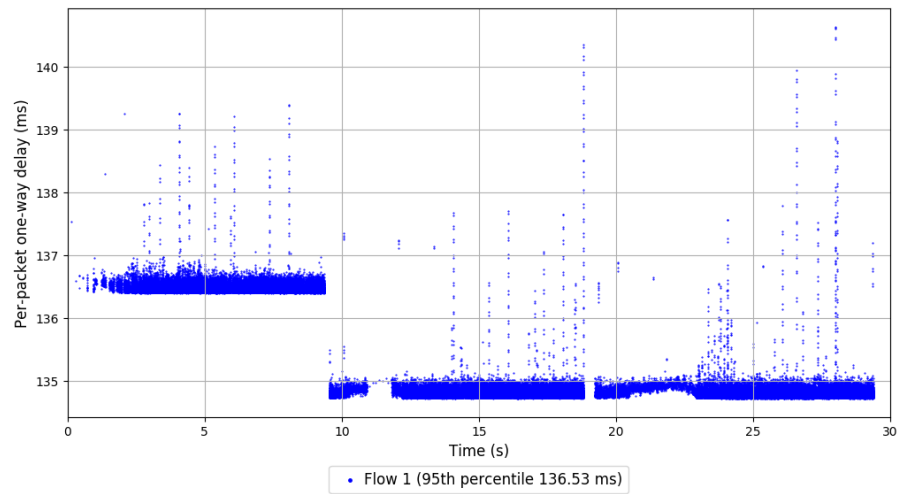
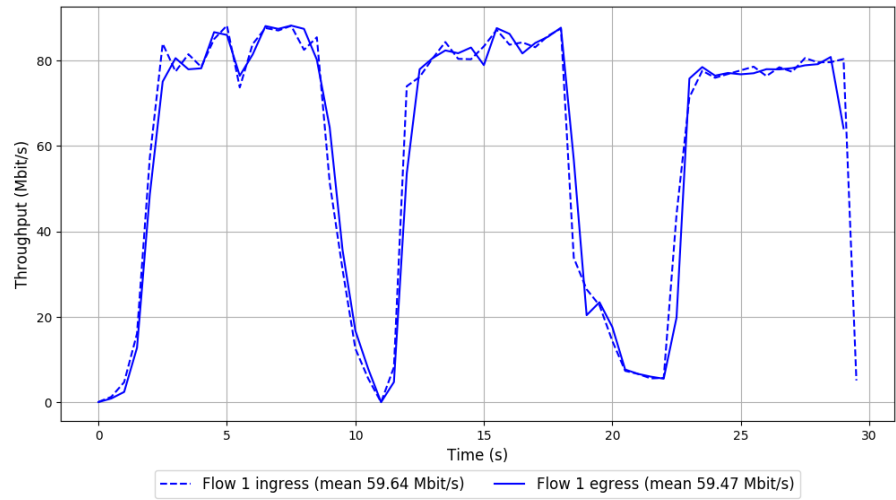
```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-09 06:41:58
End at: 2018-01-09 06:42:28

# Below is generated by plot.py at 2018-01-09 11:14:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.47 Mbit/s
95th percentile per-packet one-way delay: 136.529 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 59.47 Mbit/s
95th percentile per-packet one-way delay: 136.529 ms
Loss rate: 1.20%
```



### Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-09 06:54:48

End at: 2018-01-09 06:55:18

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 60.06 Mbit/s

95th percentile per-packet one-way delay: 136.425 ms

Loss rate: 1.27%

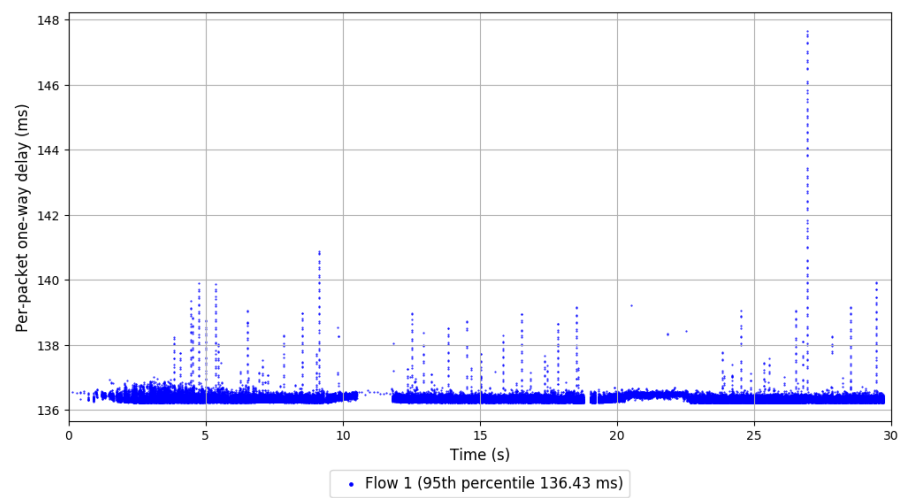
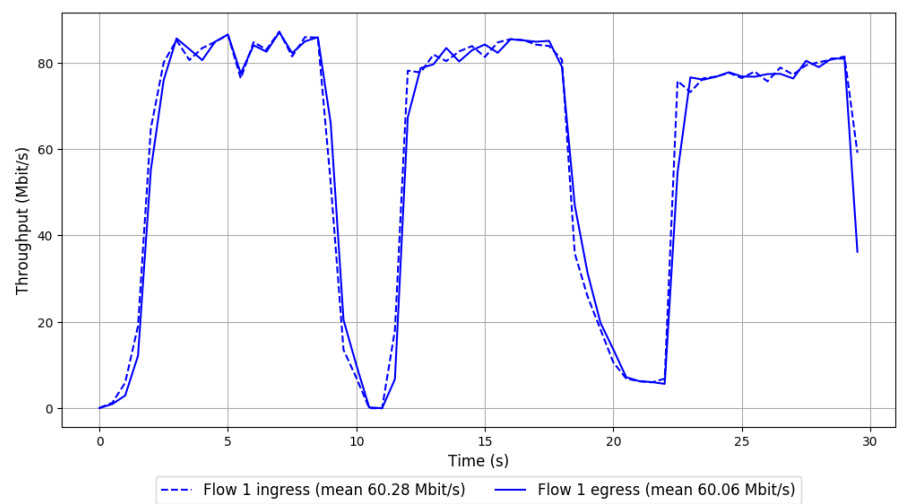
-- Flow 1:

Average throughput: 60.06 Mbit/s

95th percentile per-packet one-way delay: 136.425 ms

Loss rate: 1.27%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-09 07:07:32

End at: 2018-01-09 07:08:02

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 57.46 Mbit/s

95th percentile per-packet one-way delay: 164.061 ms

Loss rate: 1.26%

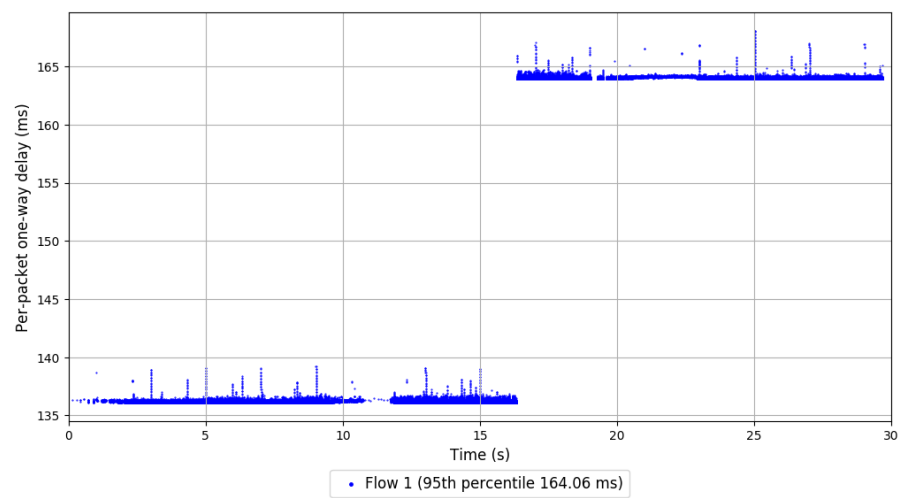
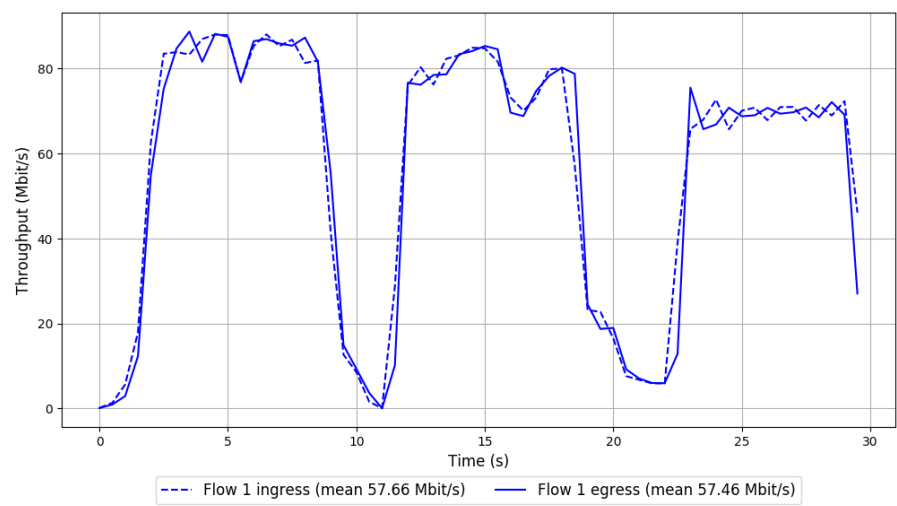
-- Flow 1:

Average throughput: 57.46 Mbit/s

95th percentile per-packet one-way delay: 164.061 ms

Loss rate: 1.26%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-09 07:20:22

End at: 2018-01-09 07:20:52

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 56.25 Mbit/s

95th percentile per-packet one-way delay: 163.546 ms

Loss rate: 1.24%

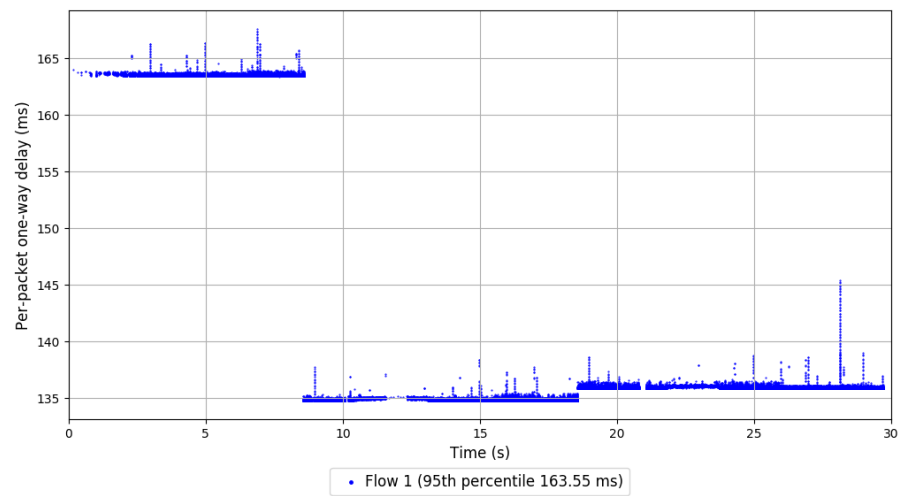
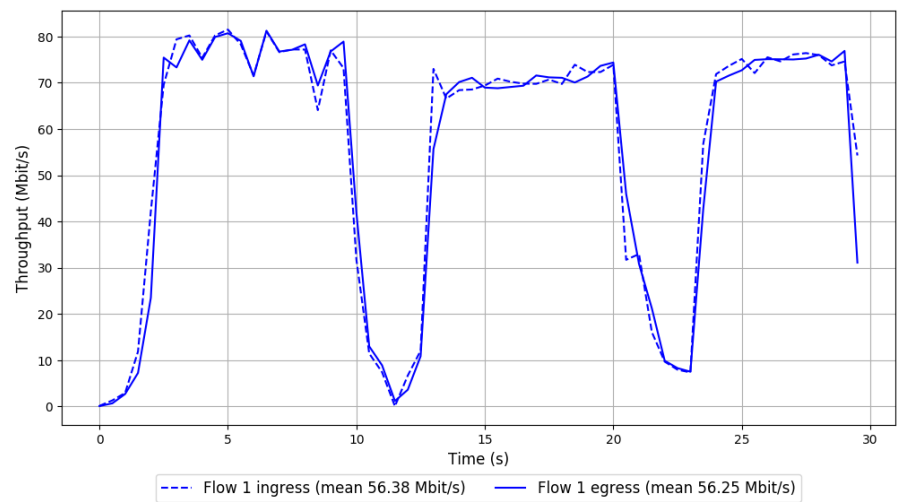
-- Flow 1:

Average throughput: 56.25 Mbit/s

95th percentile per-packet one-way delay: 163.546 ms

Loss rate: 1.24%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-09 07:32:36

End at: 2018-01-09 07:33:06

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 60.87 Mbit/s

95th percentile per-packet one-way delay: 161.157 ms

Loss rate: 1.15%

-- Flow 1:

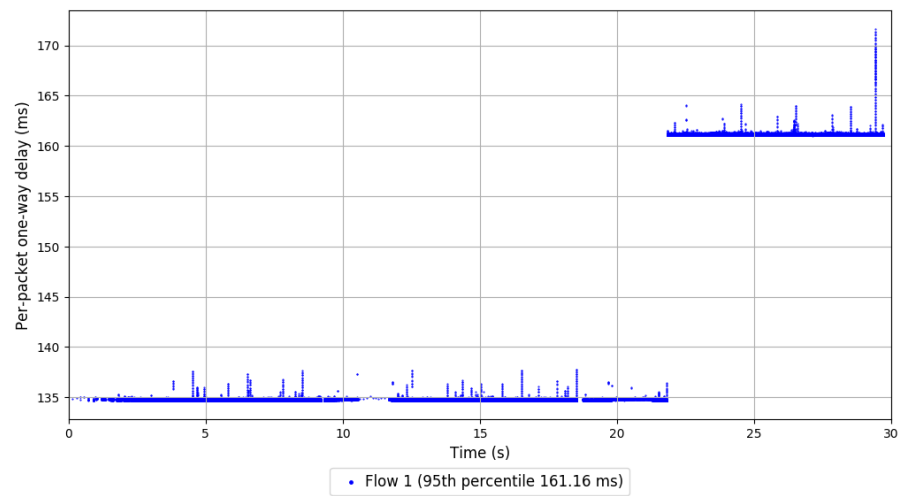
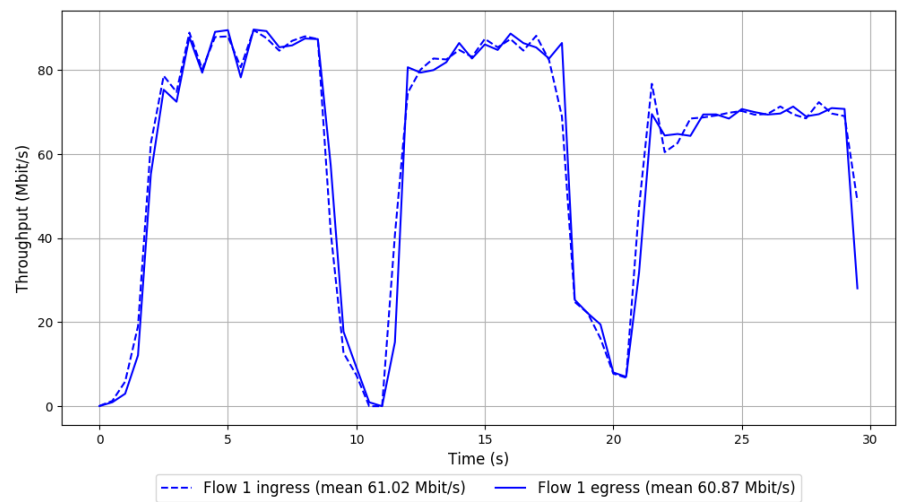
Average throughput: 60.87 Mbit/s

95th percentile per-packet one-way delay: 161.157 ms

Loss rate: 1.15%



Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-09 07:45:11

End at: 2018-01-09 07:45:41

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 57.85 Mbit/s

95th percentile per-packet one-way delay: 161.252 ms

Loss rate: 1.22%

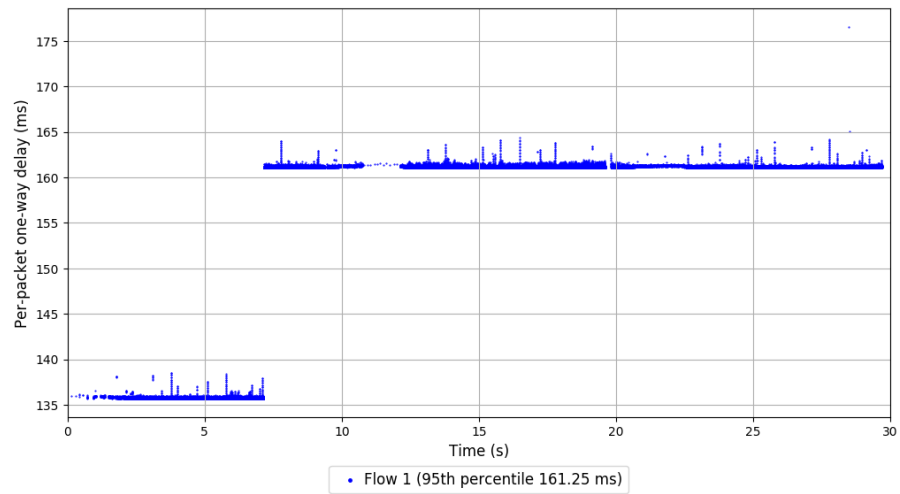
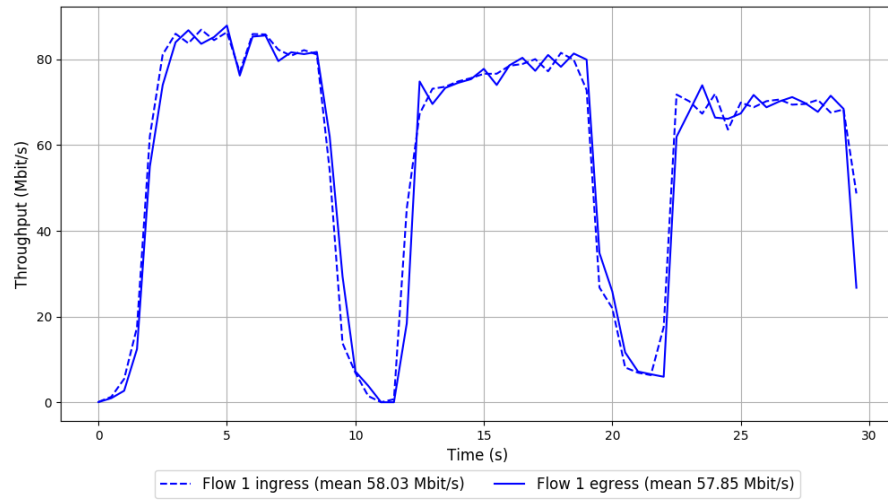
-- Flow 1:

Average throughput: 57.85 Mbit/s

95th percentile per-packet one-way delay: 161.252 ms

Loss rate: 1.22%

## Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-09 07:58:21

End at: 2018-01-09 07:58:51

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 59.45 Mbit/s

95th percentile per-packet one-way delay: 136.393 ms

Loss rate: 1.15%

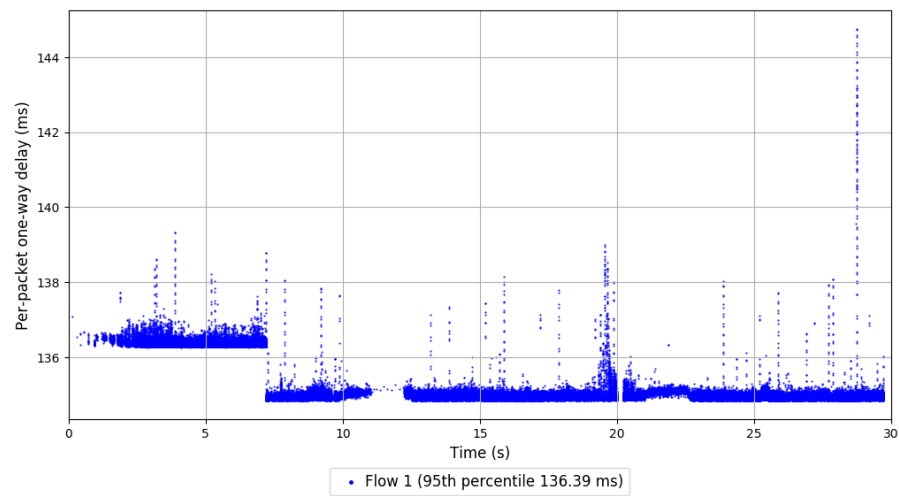
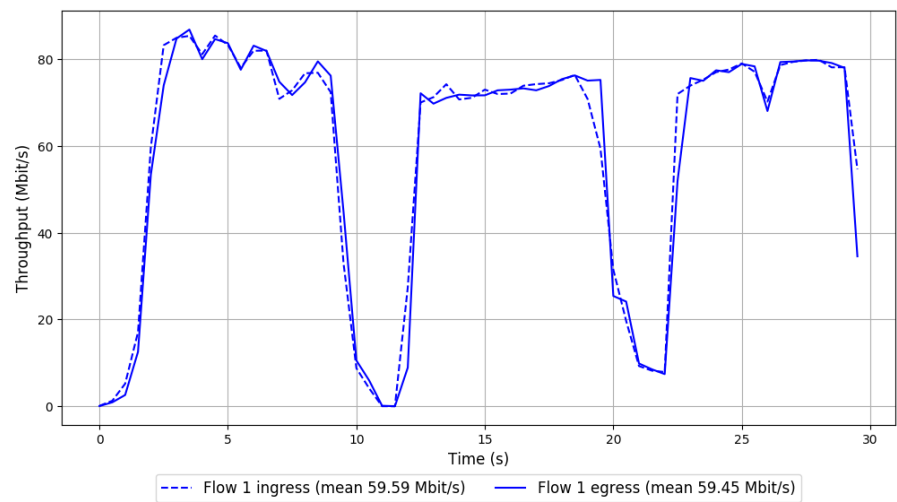
-- Flow 1:

Average throughput: 59.45 Mbit/s

95th percentile per-packet one-way delay: 136.393 ms

Loss rate: 1.15%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-09 08:11:05

End at: 2018-01-09 08:11:35

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 53.51 Mbit/s

95th percentile per-packet one-way delay: 136.063 ms

Loss rate: 1.26%

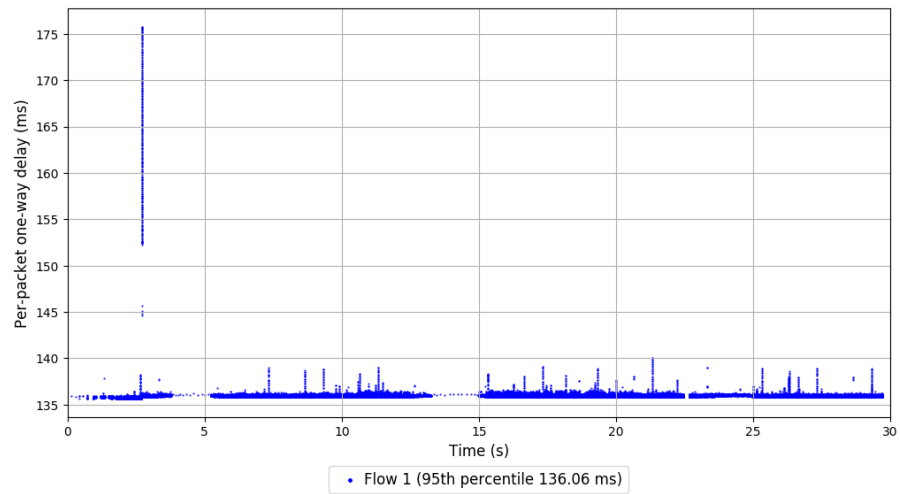
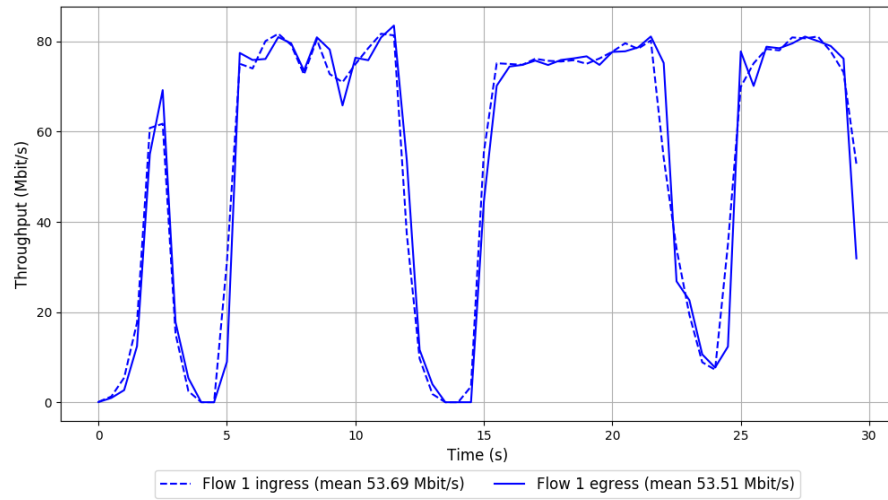
-- Flow 1:

Average throughput: 53.51 Mbit/s

95th percentile per-packet one-way delay: 136.063 ms

Loss rate: 1.26%

## Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-09 08:23:58

End at: 2018-01-09 08:24:28

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 60.52 Mbit/s

95th percentile per-packet one-way delay: 163.096 ms

Loss rate: 1.00%

-- Flow 1:

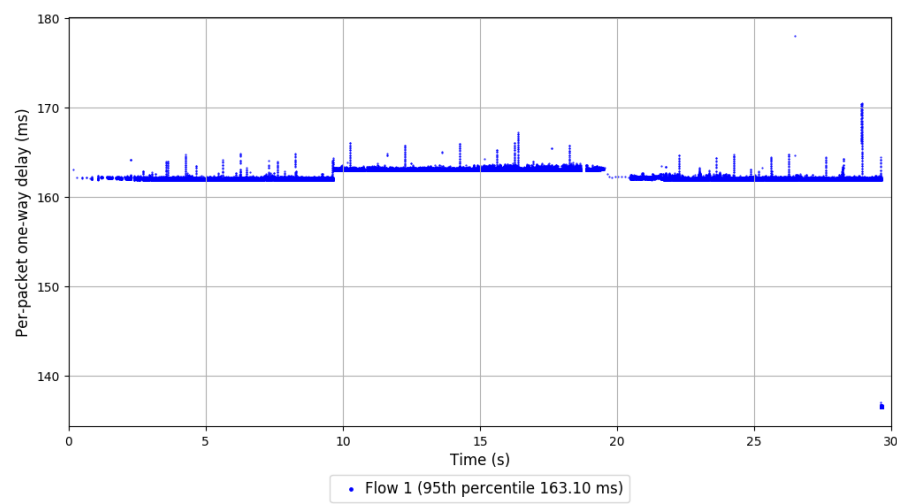
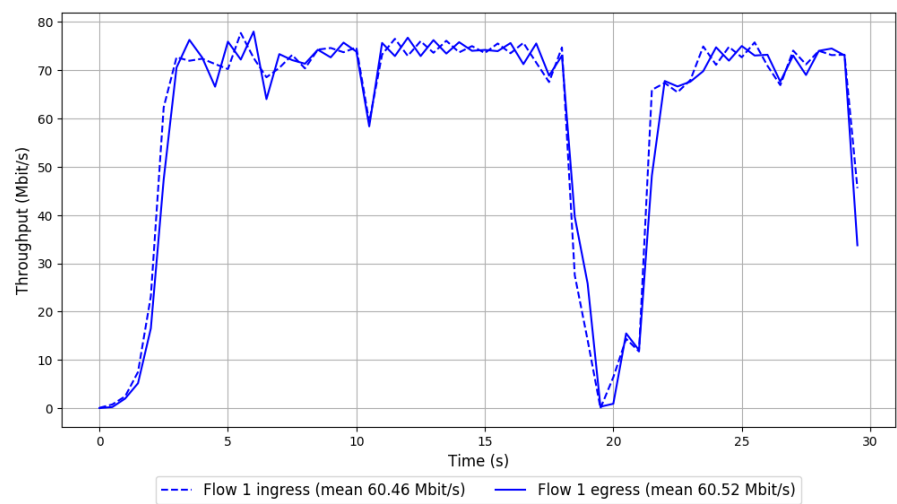
Average throughput: 60.52 Mbit/s

95th percentile per-packet one-way delay: 163.096 ms

Loss rate: 1.00%



Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-01-09 08:37:13

End at: 2018-01-09 08:37:43

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 59.94 Mbit/s

95th percentile per-packet one-way delay: 161.413 ms

Loss rate: 1.14%

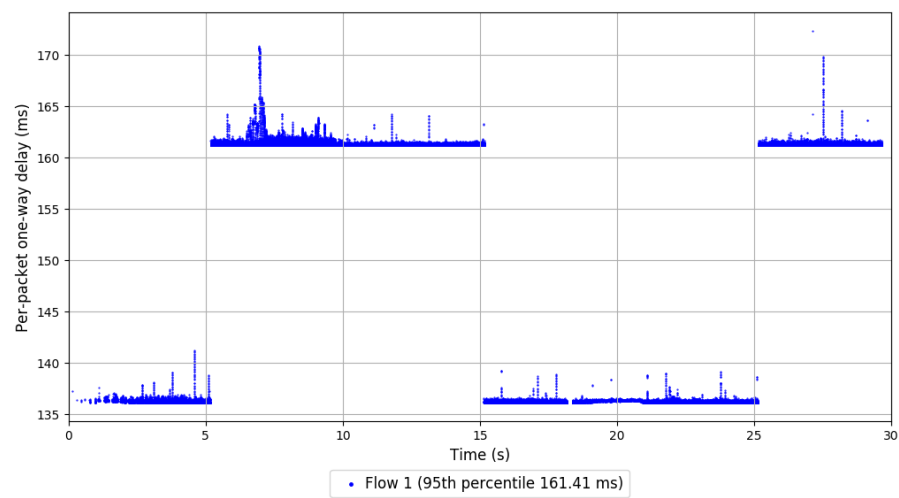
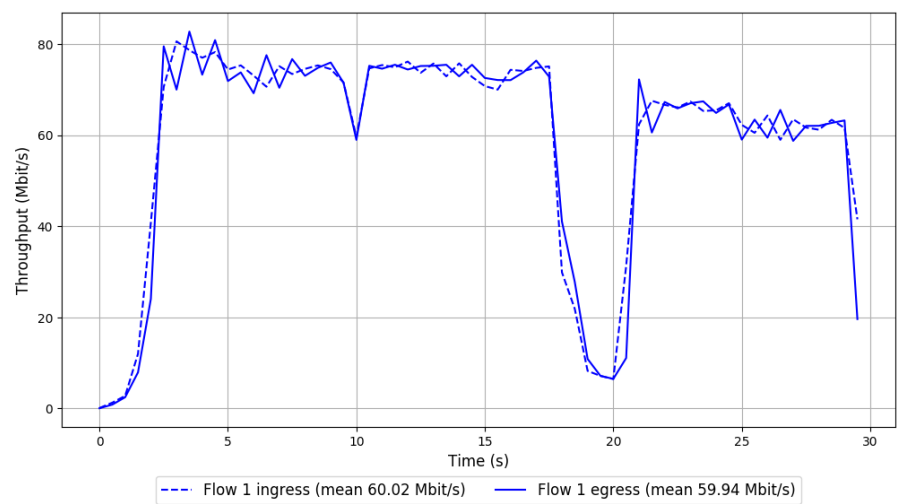
-- Flow 1:

Average throughput: 59.94 Mbit/s

95th percentile per-packet one-way delay: 161.413 ms

Loss rate: 1.14%

Run 10: Report of QUIC Cubic — Data Link

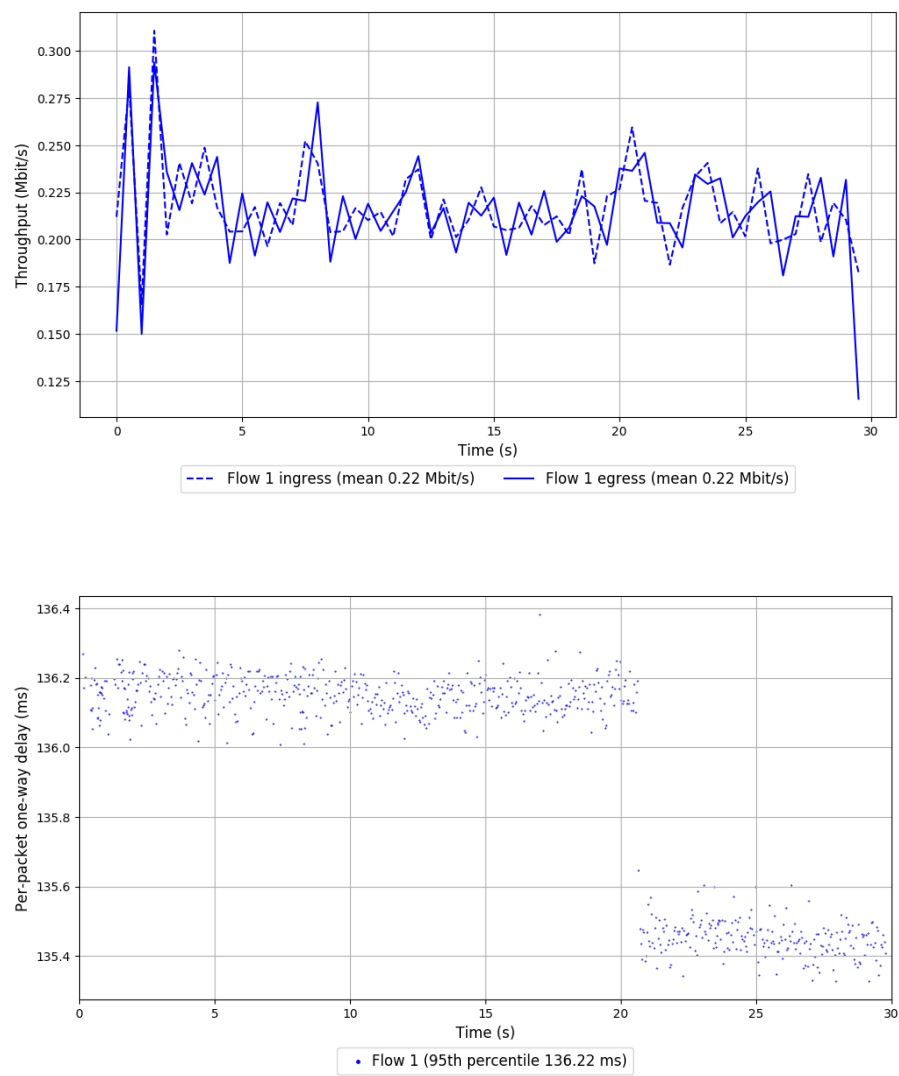


```
Run 1: Statistics of SCReAM

Start at: 2018-01-09 06:45:57
End at: 2018-01-09 06:46:27

# Below is generated by plot.py at 2018-01-09 11:14:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.223 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.223 ms
Loss rate: 0.89%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-01-09 06:58:45

End at: 2018-01-09 06:59:15

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.415 ms

Loss rate: 0.89%

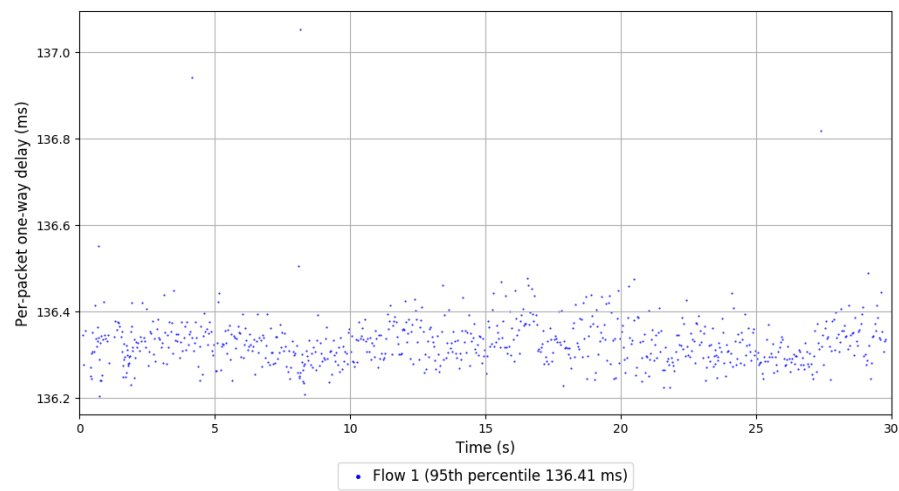
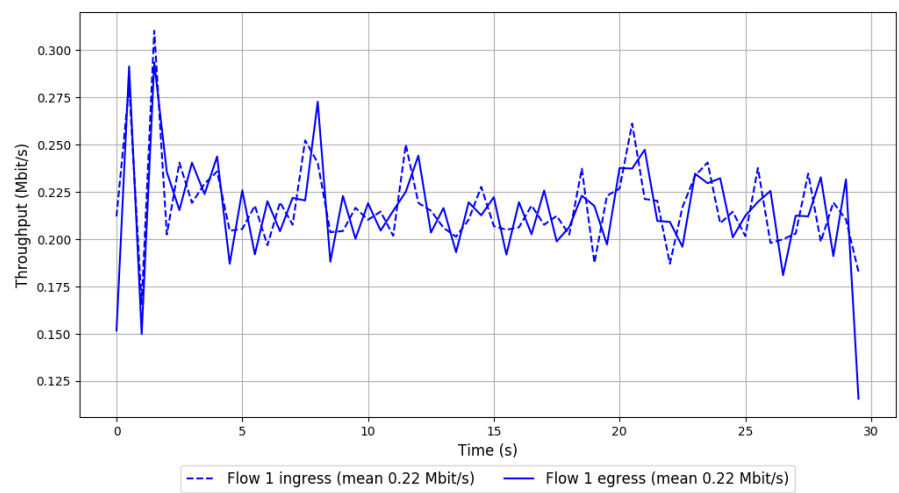
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.415 ms

Loss rate: 0.89%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-09 07:11:36

End at: 2018-01-09 07:12:06

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.183 ms

Loss rate: 0.89%

-- Flow 1:

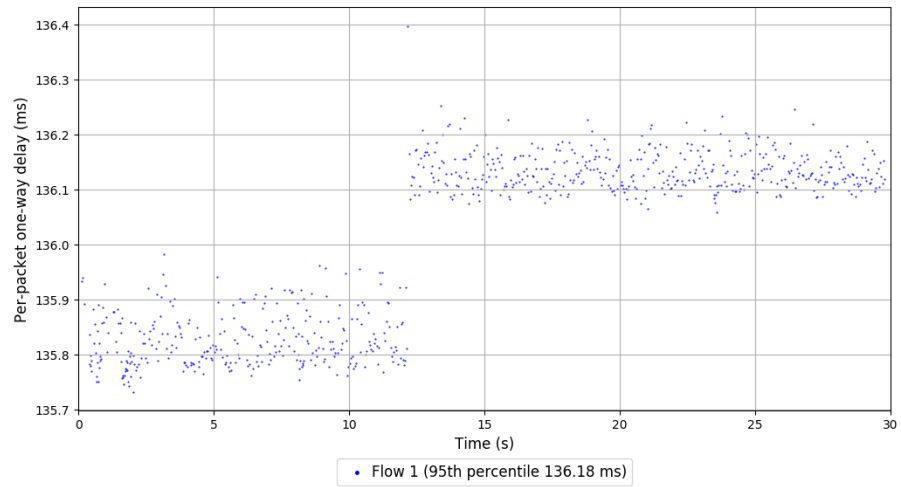
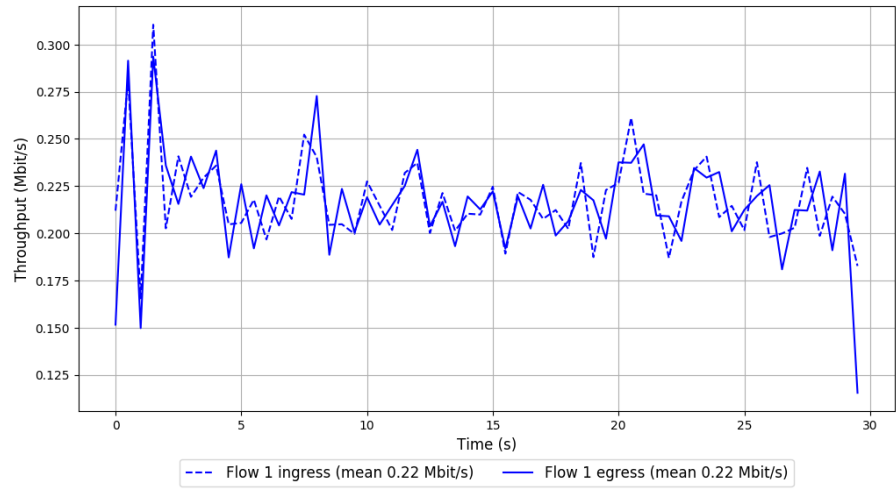
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.183 ms

Loss rate: 0.89%



### Run 3: Report of SCRaM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-01-09 07:24:09

End at: 2018-01-09 07:24:39

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 161.923 ms

Loss rate: 1.03%

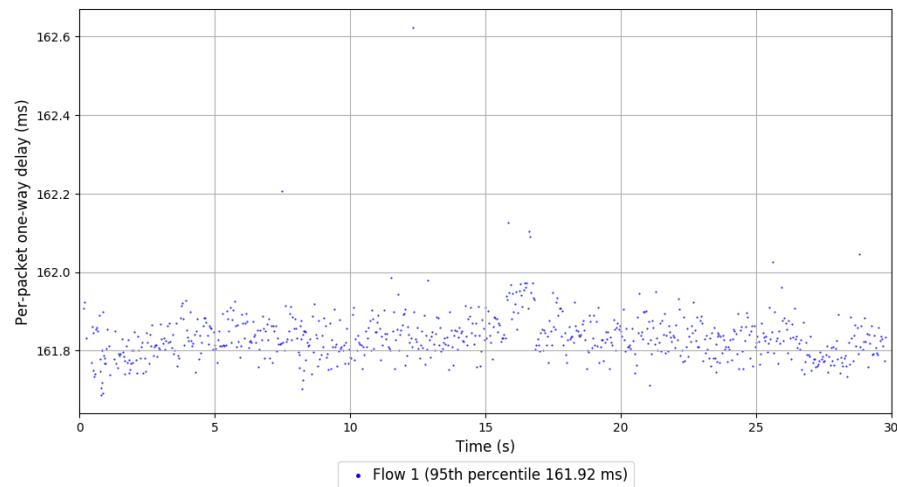
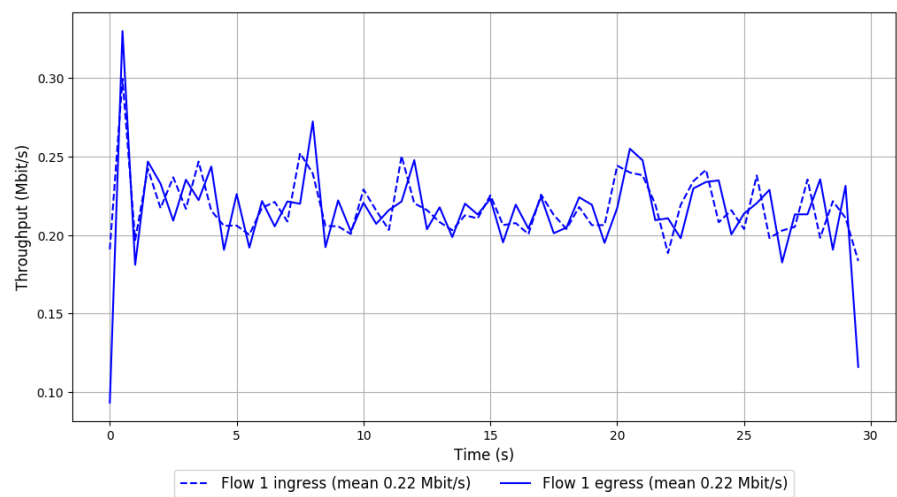
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 161.923 ms

Loss rate: 1.03%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-01-09 07:36:35

End at: 2018-01-09 07:37:05

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 161.377 ms

Loss rate: 0.90%

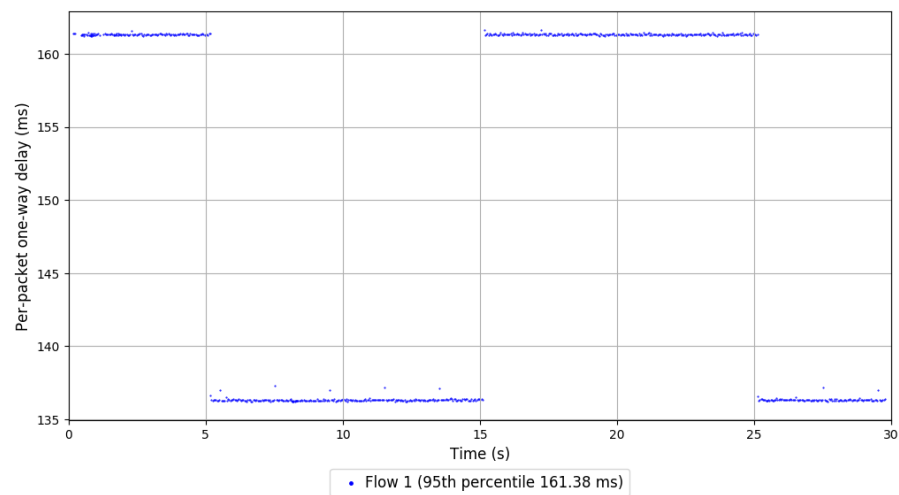
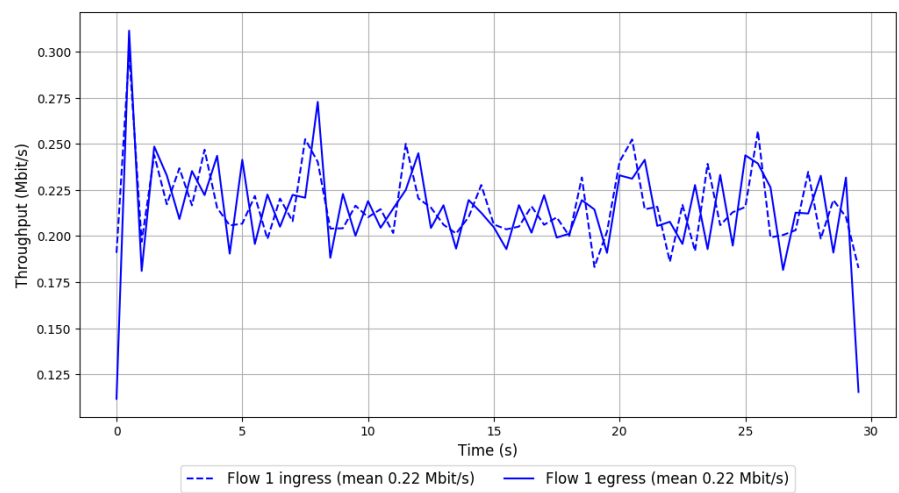
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 161.377 ms

Loss rate: 0.90%

Run 5: Report of SCRaM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-09 07:49:15

End at: 2018-01-09 07:49:45

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.014 ms

Loss rate: 0.89%

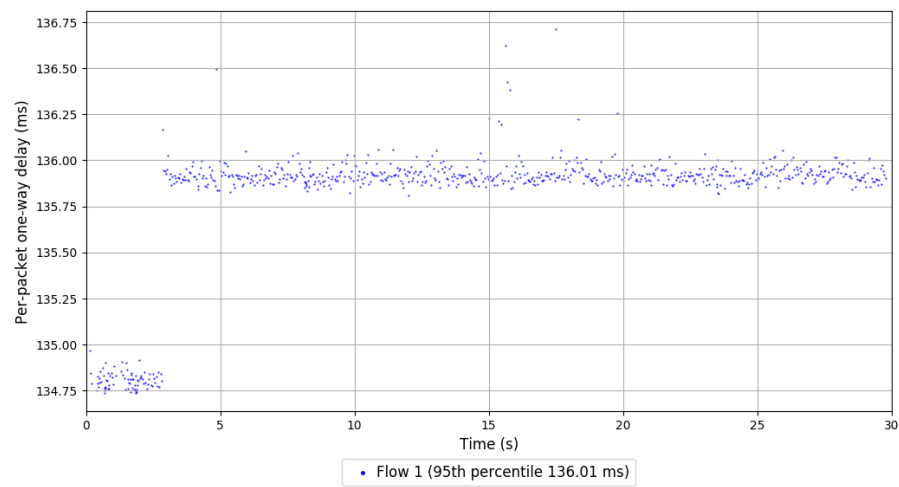
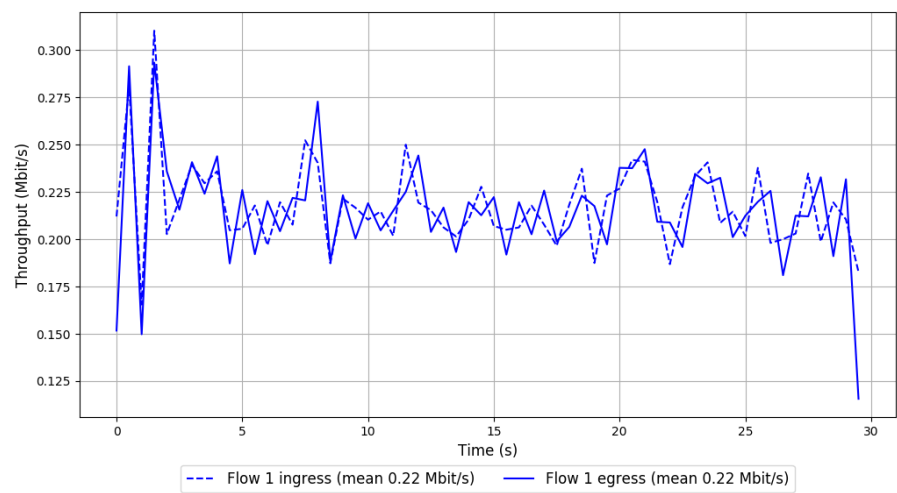
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.014 ms

Loss rate: 0.89%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-01-09 08:02:21

End at: 2018-01-09 08:02:51

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.597 ms

Loss rate: 0.89%

-- Flow 1:

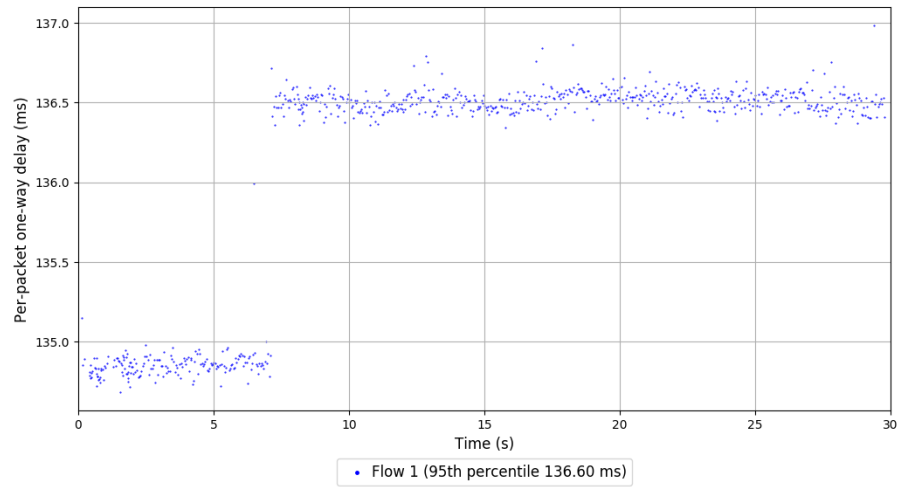
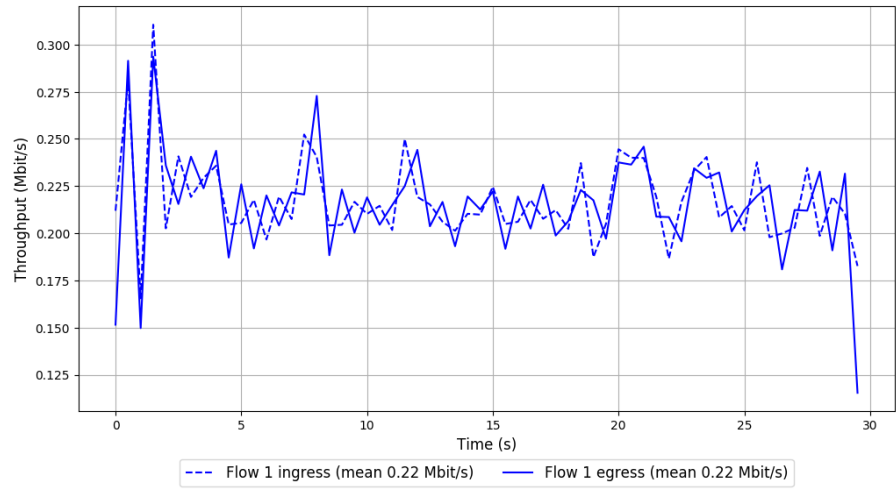
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.597 ms

Loss rate: 0.89%



## Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-09 08:15:02

End at: 2018-01-09 08:15:32

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.225 ms

Loss rate: 0.89%

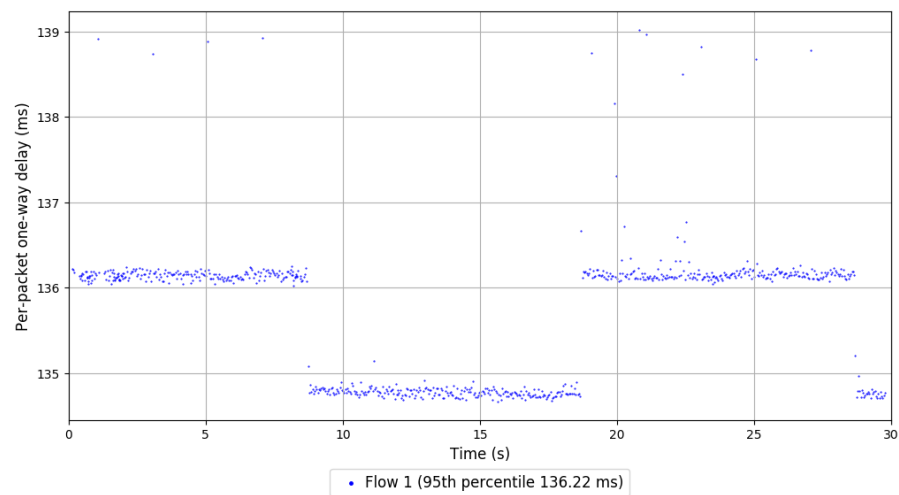
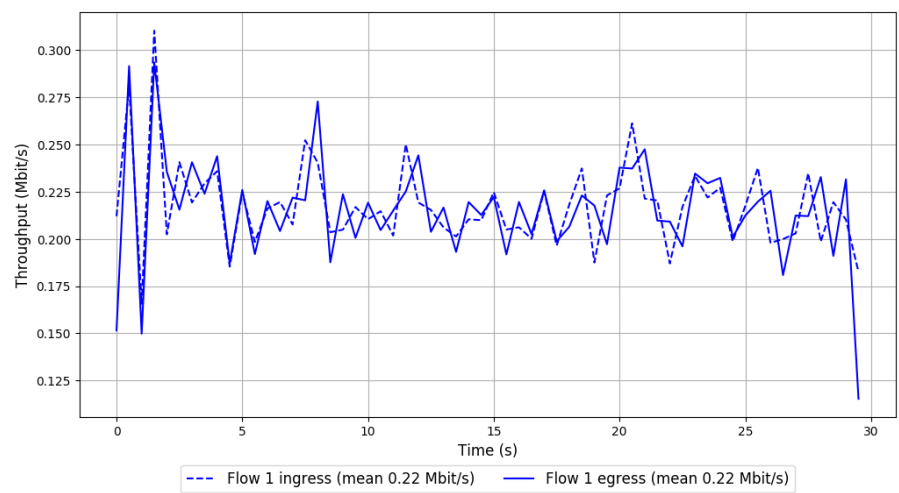
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.225 ms

Loss rate: 0.89%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-09 08:27:59

End at: 2018-01-09 08:28:29

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 136.263 ms

Loss rate: 1.03%

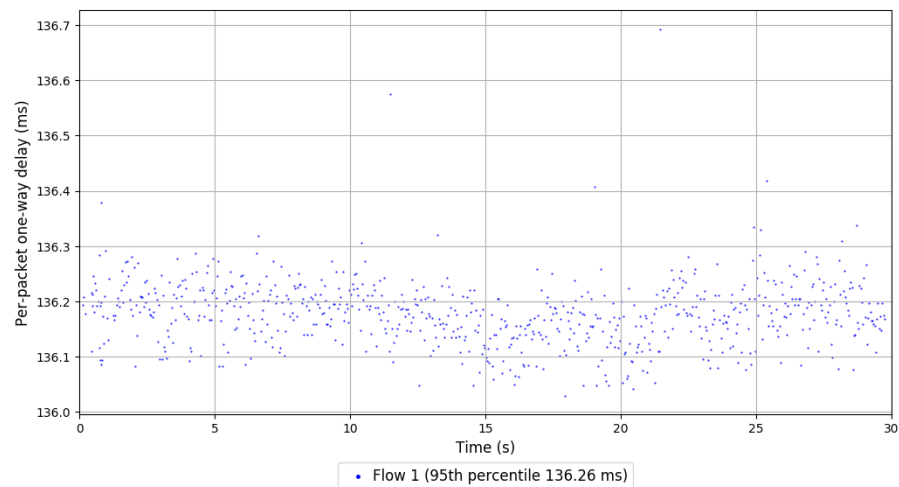
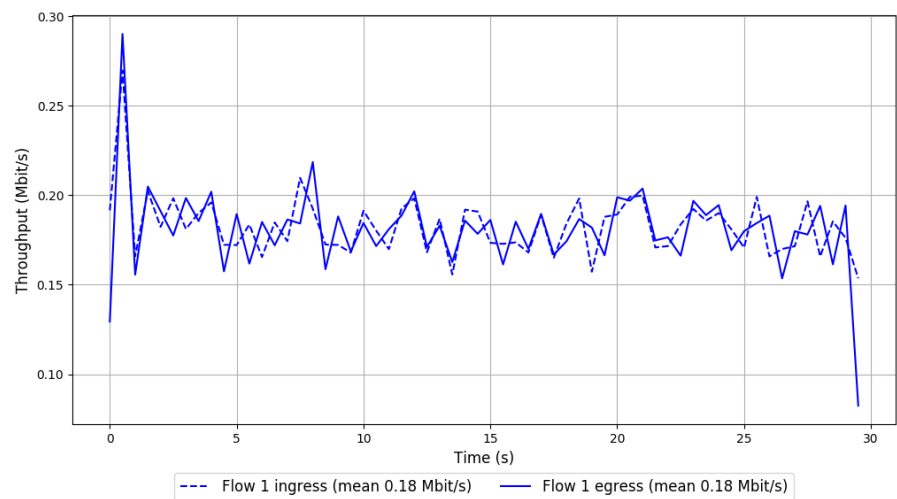
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 136.263 ms

Loss rate: 1.03%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-01-09 08:41:09

End at: 2018-01-09 08:41:39

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 136.161 ms

Loss rate: 1.02%

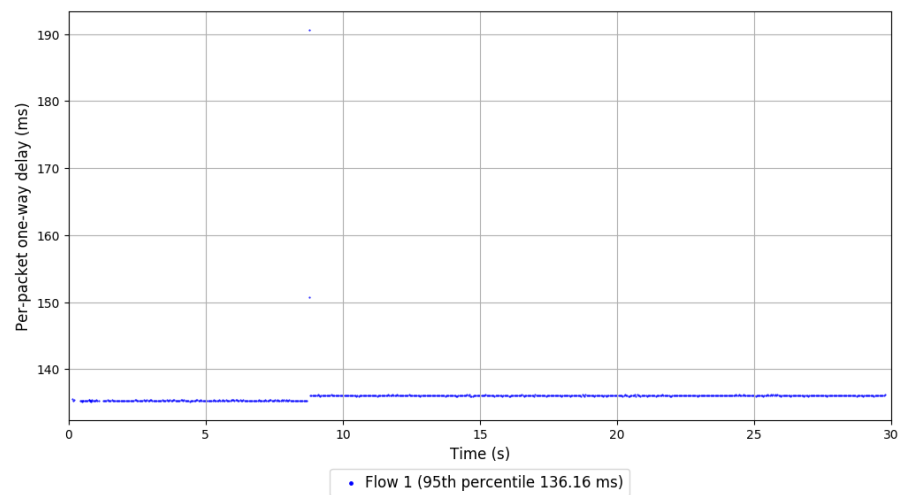
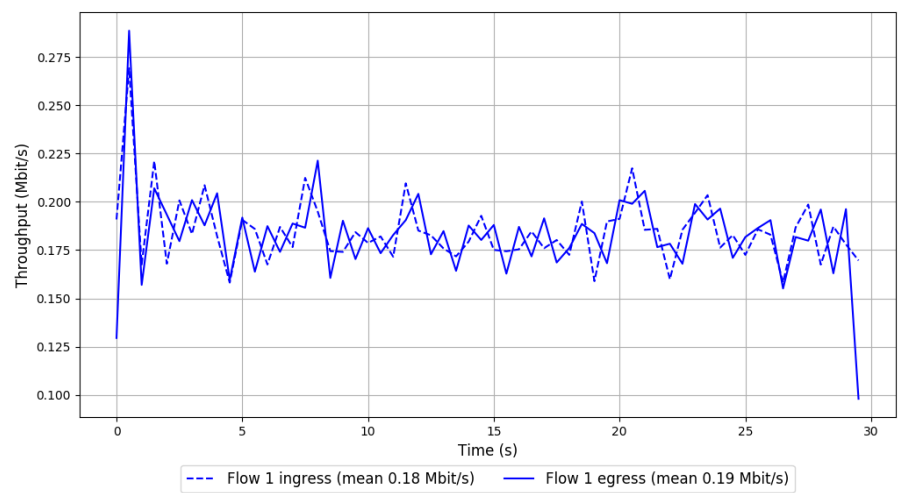
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 136.161 ms

Loss rate: 1.02%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-01-09 06:35:53

End at: 2018-01-09 06:36:23

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 136.703 ms

Loss rate: 1.29%

-- Flow 1:

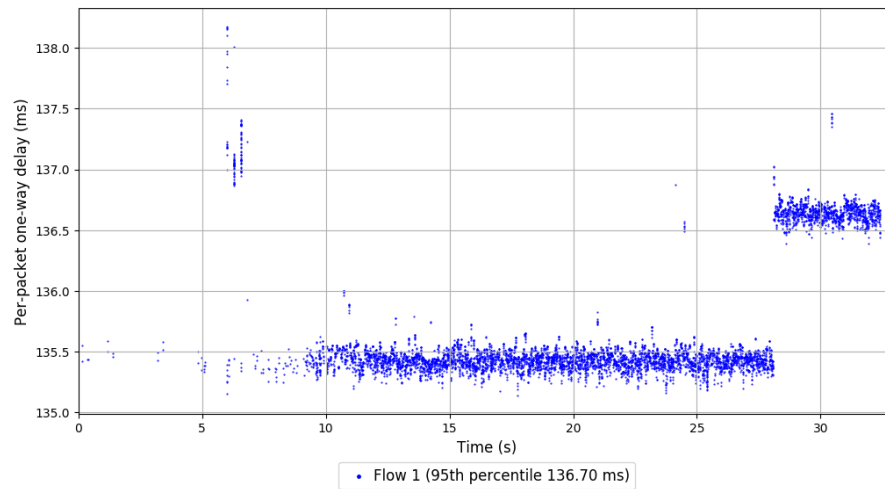
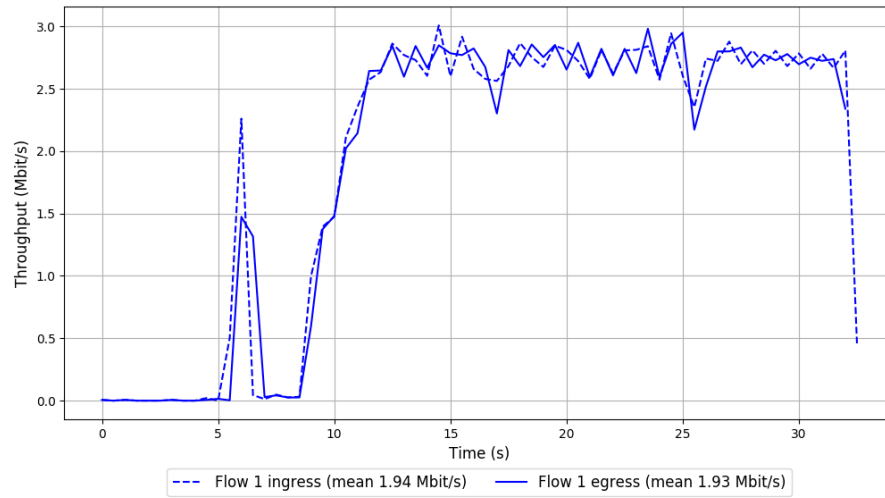
Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 136.703 ms

Loss rate: 1.29%



# Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-09 06:48:49

End at: 2018-01-09 06:49:19

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 164.447 ms

Loss rate: 0.91%

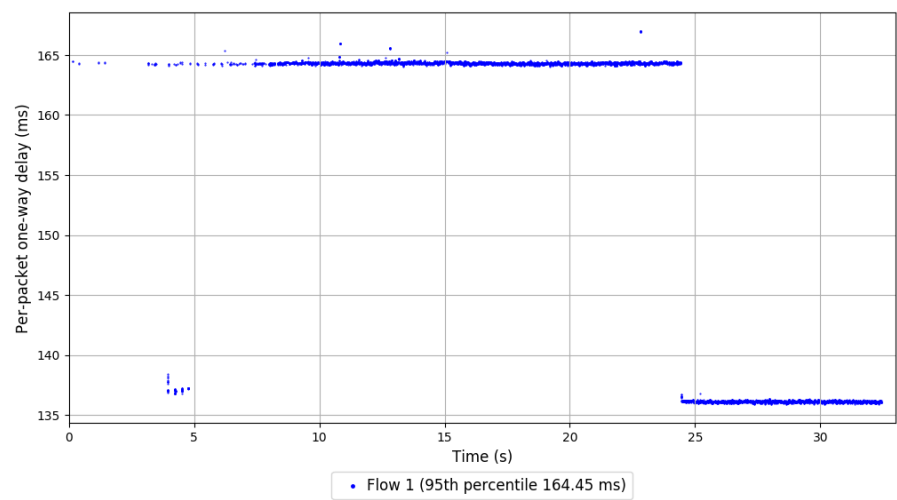
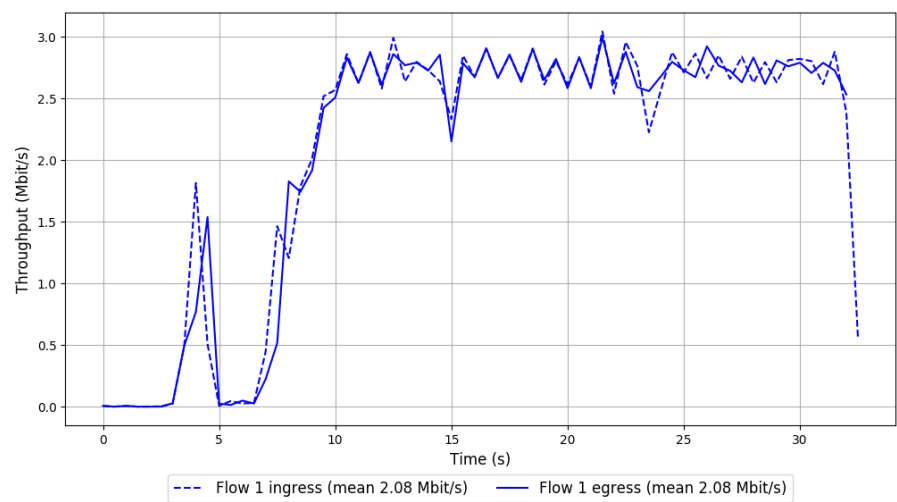
-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 164.447 ms

Loss rate: 0.91%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-09 07:01:39

End at: 2018-01-09 07:02:09

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.559 ms

Loss rate: 0.95%

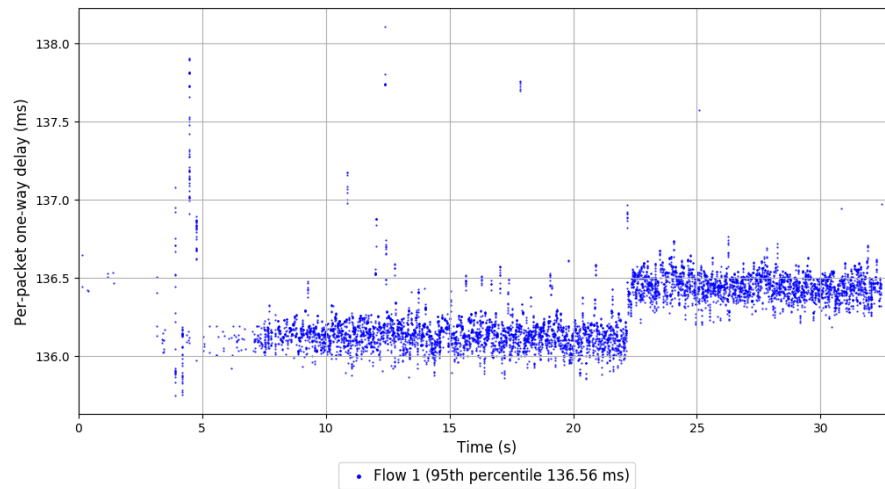
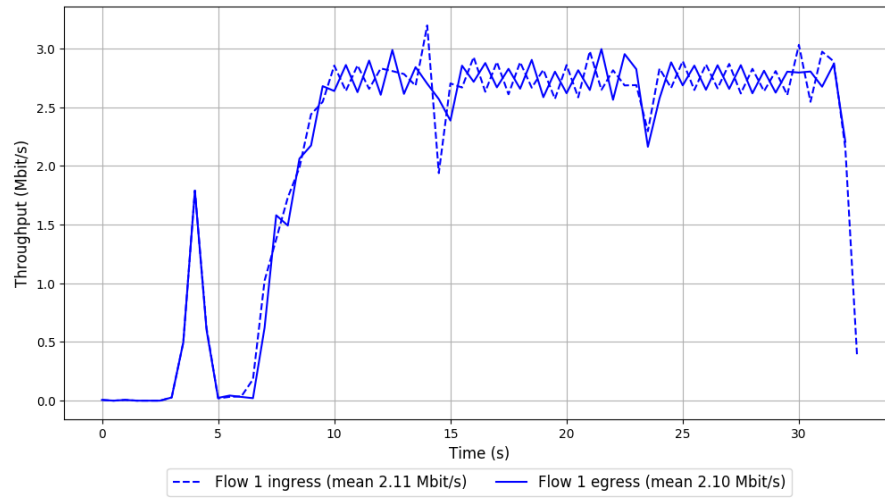
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.559 ms

Loss rate: 0.95%

### Run 3: Report of WebRTC media — Data Link

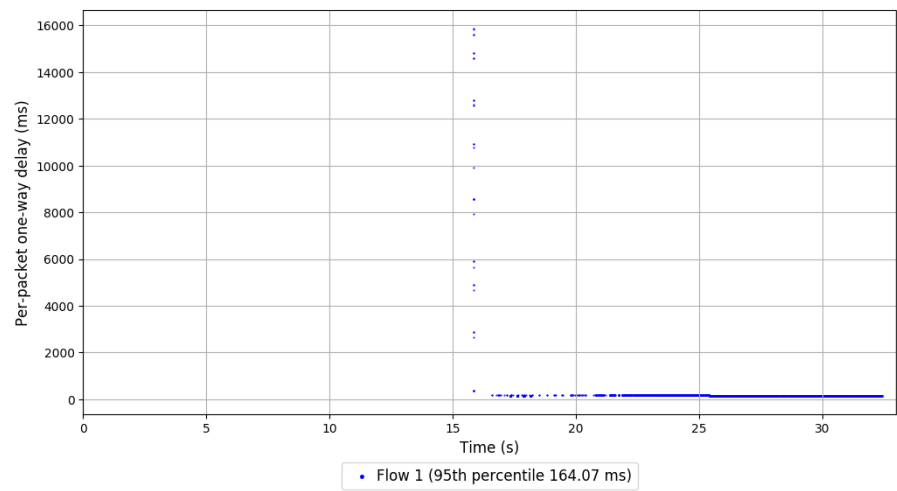
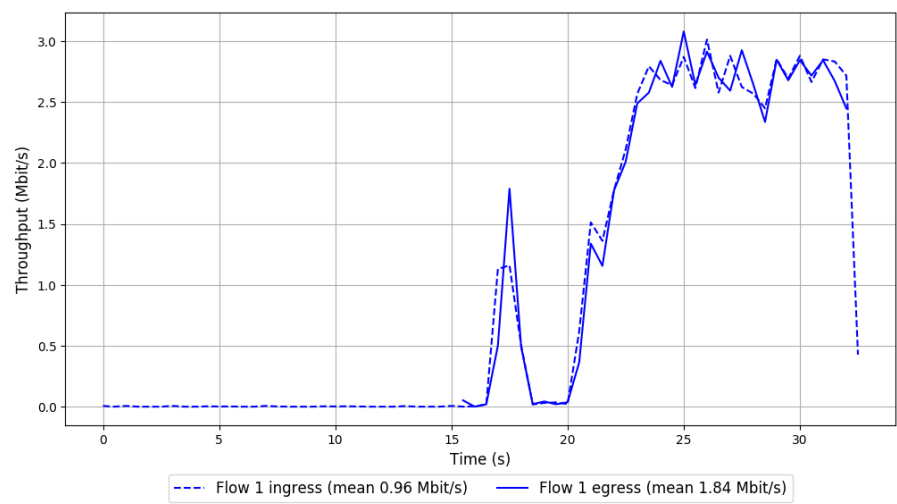


Run 4: Statistics of WebRTC media

Start at: 2018-01-09 07:14:38

End at: 2018-01-09 07:15:08

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-09 07:27:09

End at: 2018-01-09 07:27:39

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.479 ms

Loss rate: 0.95%

-- Flow 1:

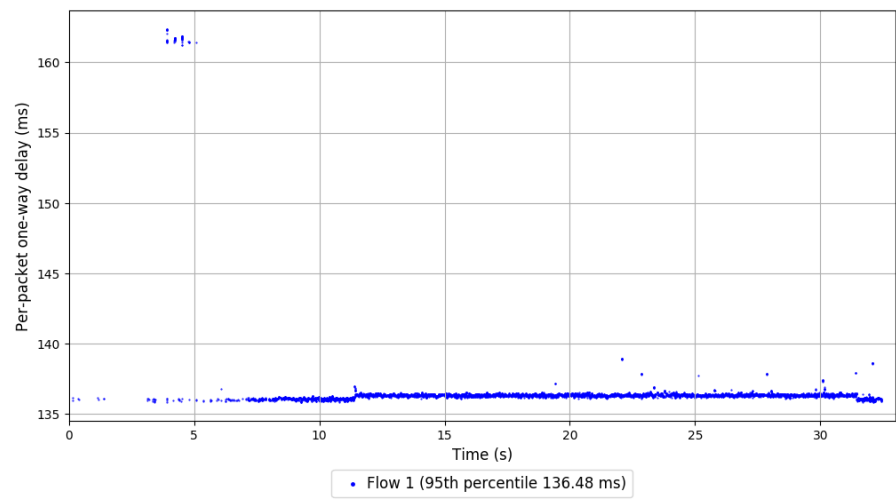
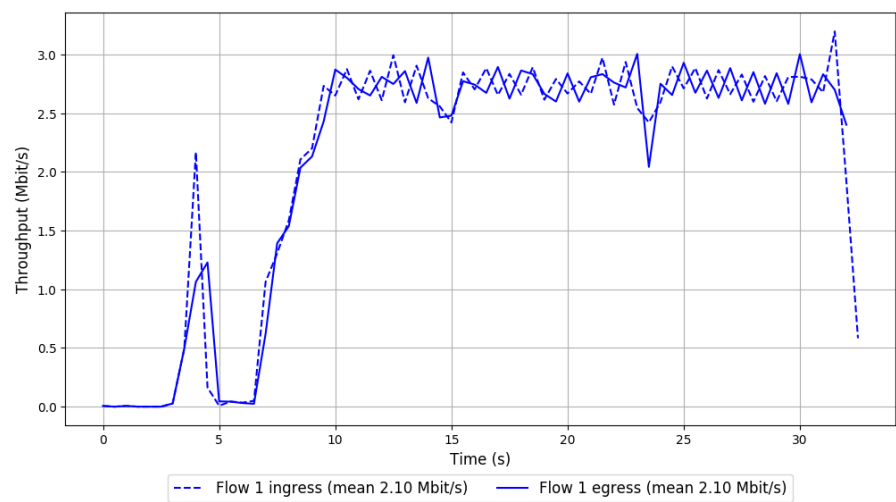
Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.479 ms

Loss rate: 0.95%



Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-09 07:39:32

End at: 2018-01-09 07:40:02

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 137.186 ms

Loss rate: 0.93%

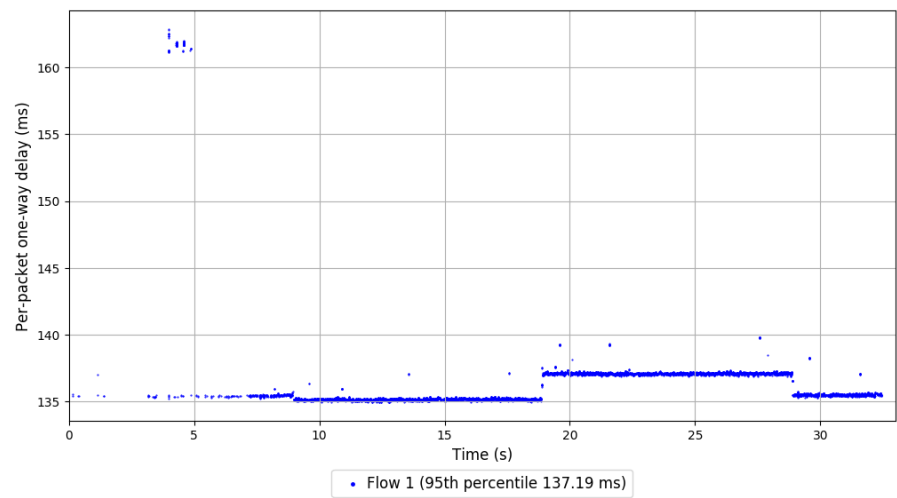
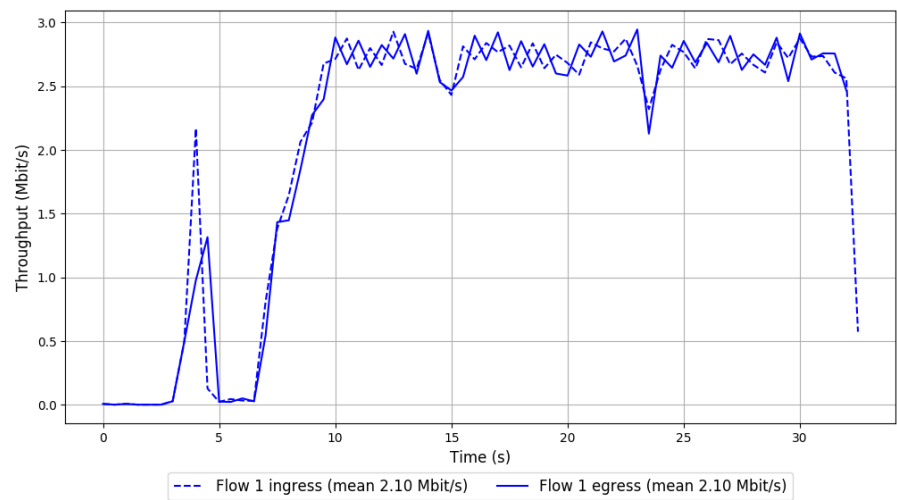
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 137.186 ms

Loss rate: 0.93%

Run 6: Report of WebRTC media — Data Link

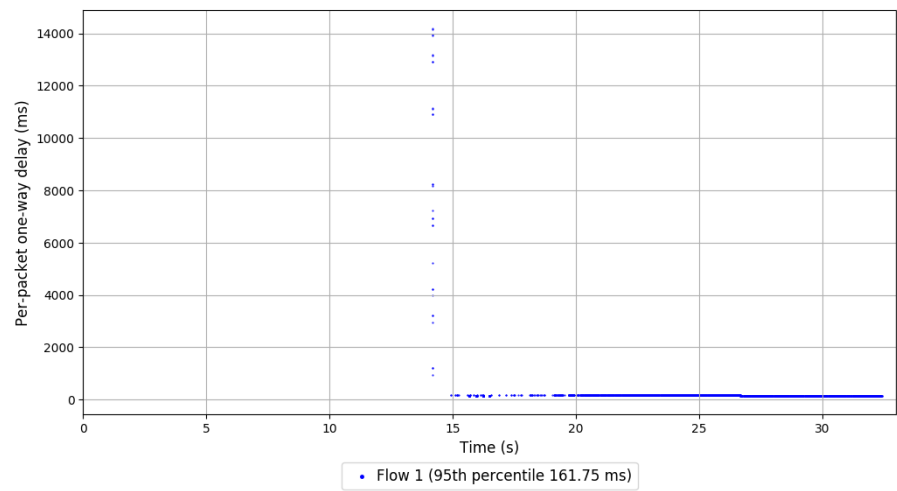
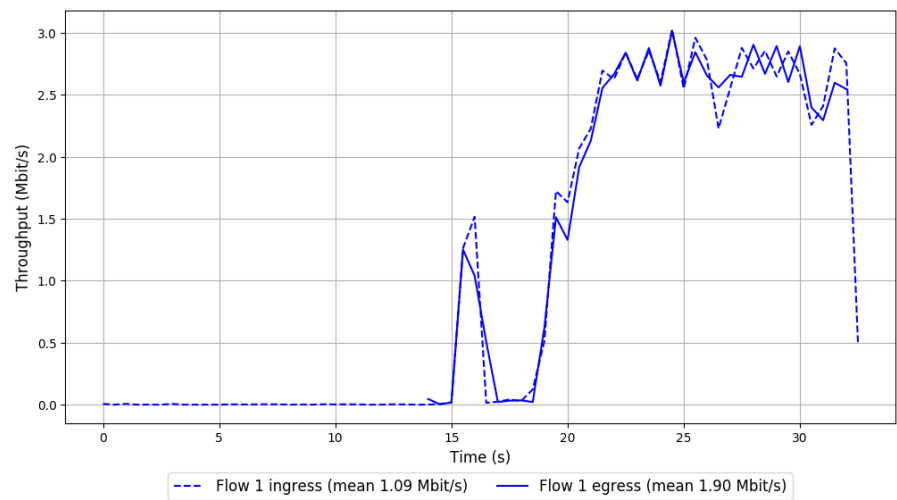


Run 7: Statistics of WebRTC media

Start at: 2018-01-09 07:52:16

End at: 2018-01-09 07:52:46

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-09 08:05:21

End at: 2018-01-09 08:05:51

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.256 ms

Loss rate: 0.97%

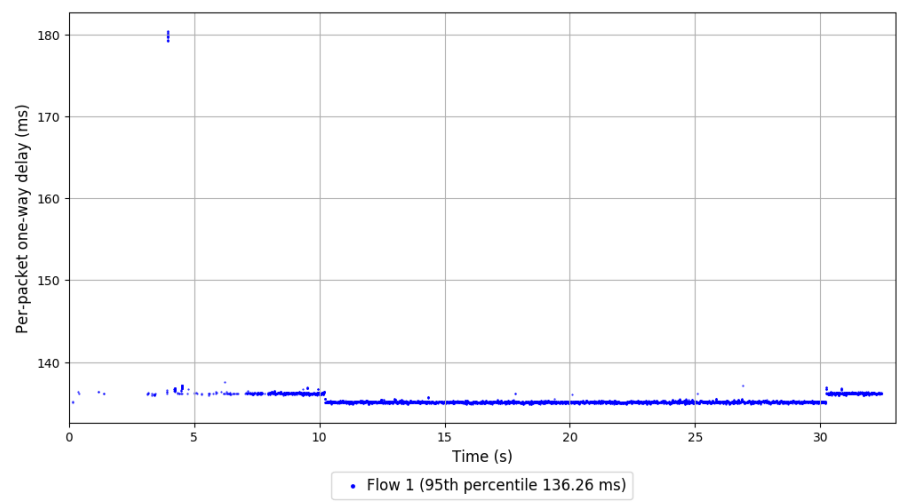
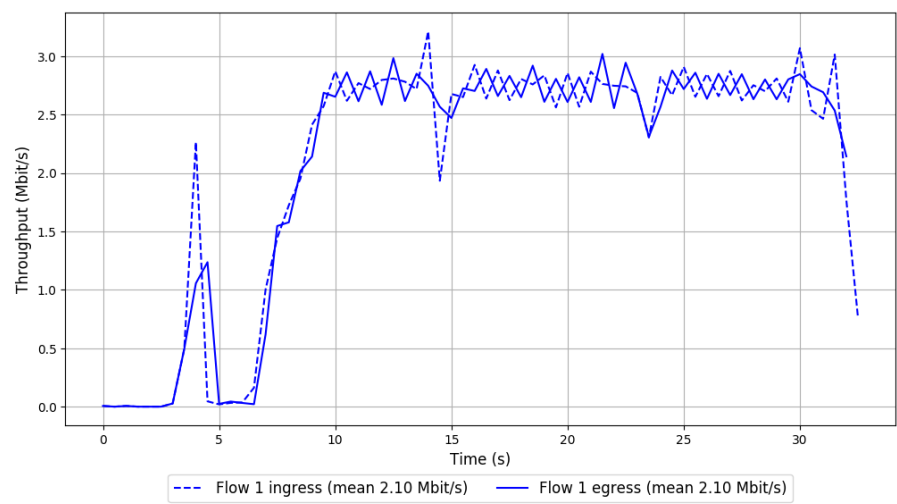
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.256 ms

Loss rate: 0.97%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-09 08:17:57

End at: 2018-01-09 08:18:27

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.644 ms

Loss rate: 0.94%

-- Flow 1:

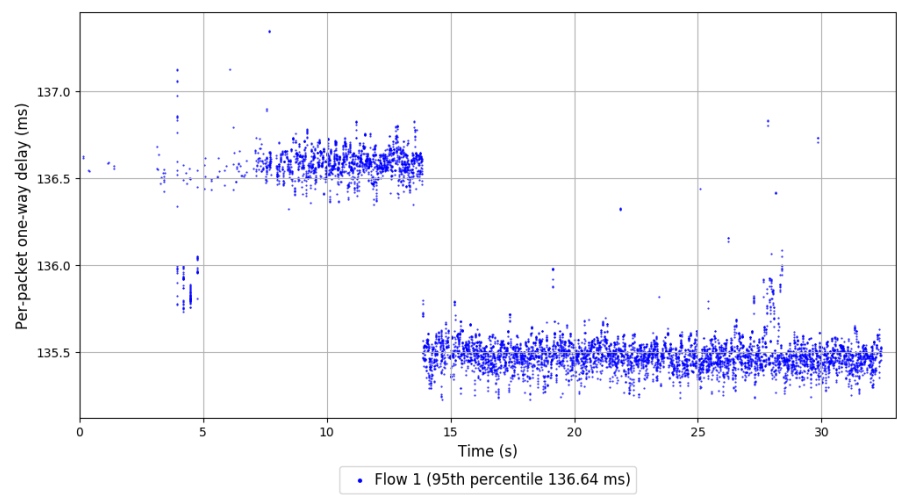
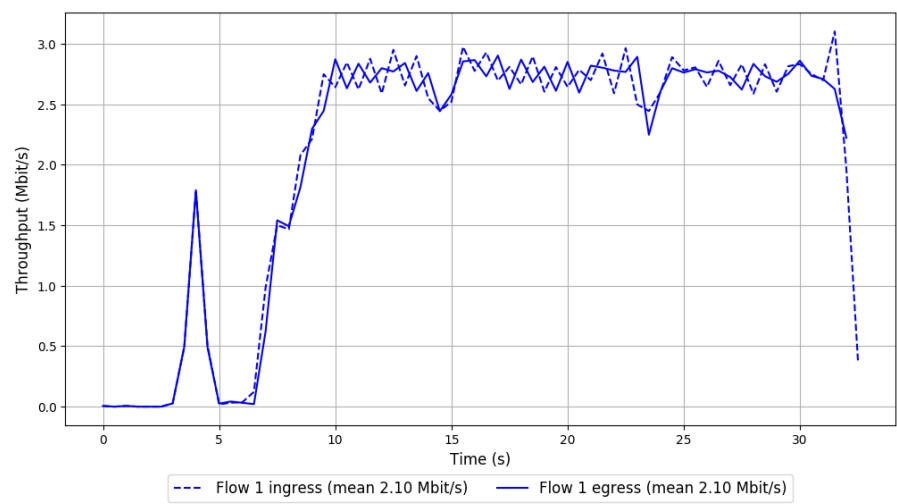
Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.644 ms

Loss rate: 0.94%



Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-09 08:31:03

End at: 2018-01-09 08:31:33

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 162.448 ms

Loss rate: 0.92%

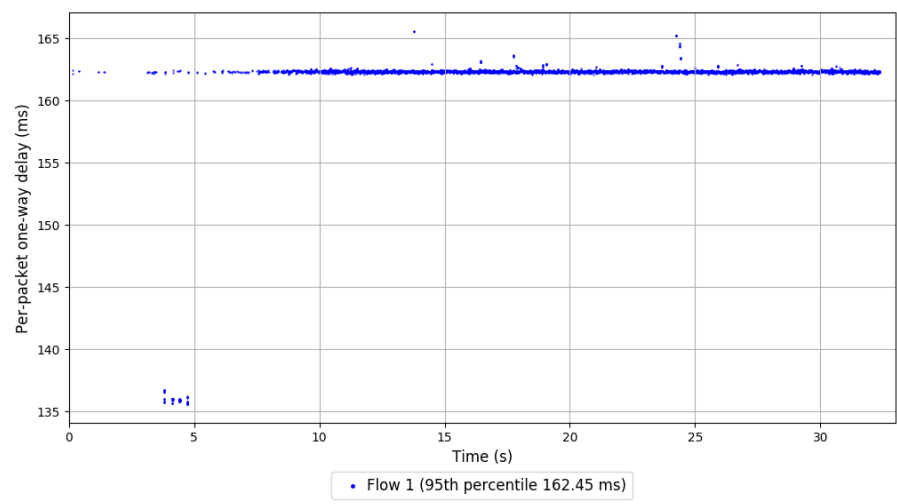
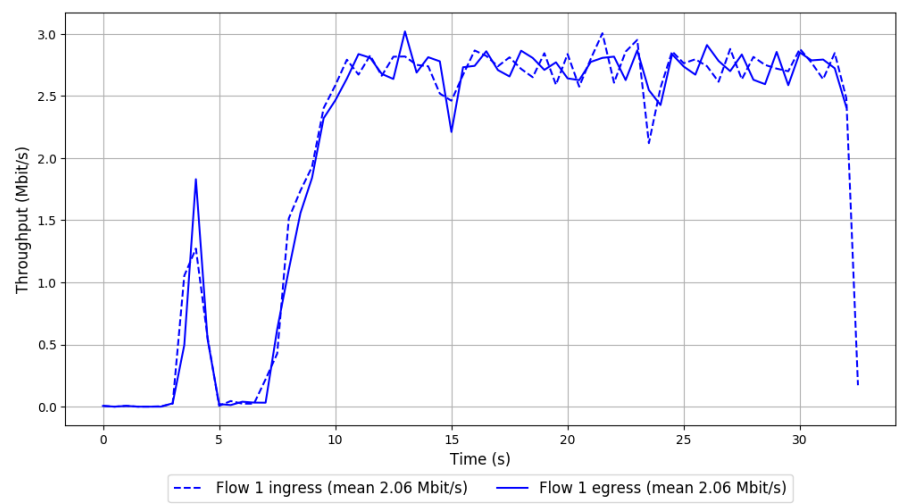
-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 162.448 ms

Loss rate: 0.92%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-09 06:48:05

End at: 2018-01-09 06:48:35

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 164.349 ms

Loss rate: 0.92%

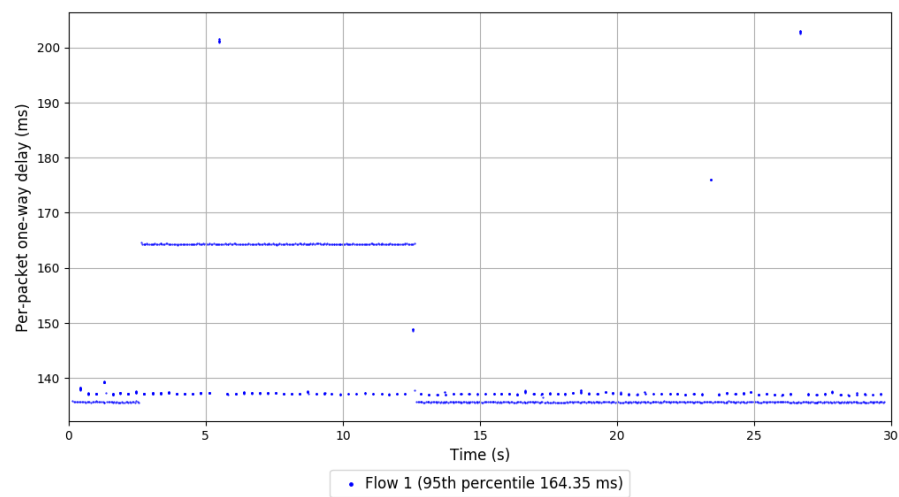
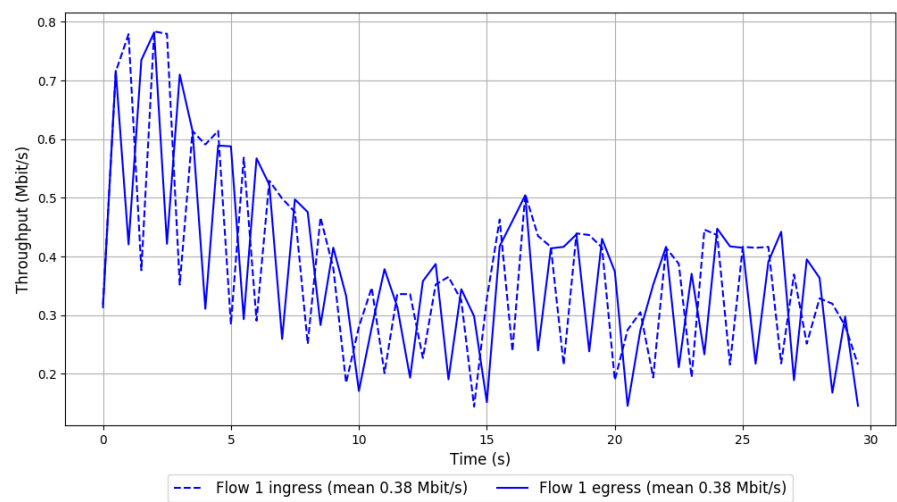
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 164.349 ms

Loss rate: 0.92%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-09 07:00:55

End at: 2018-01-09 07:01:25

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 164.045 ms

Loss rate: 1.79%

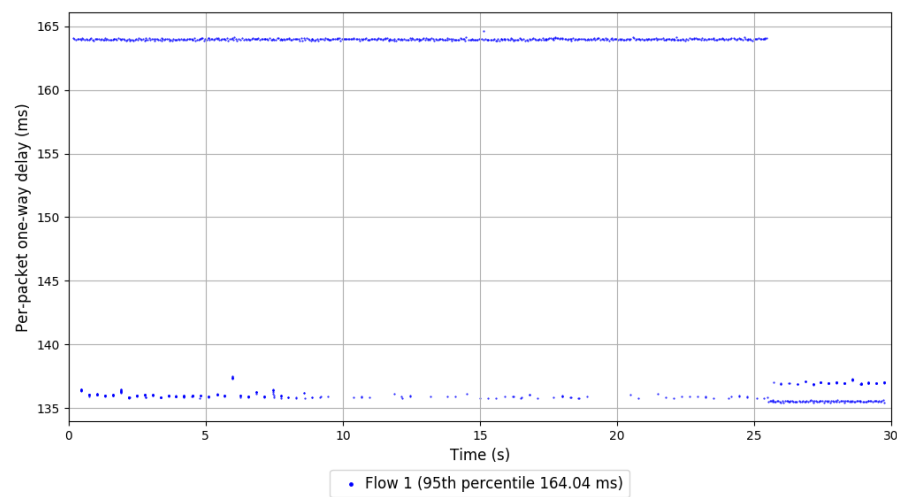
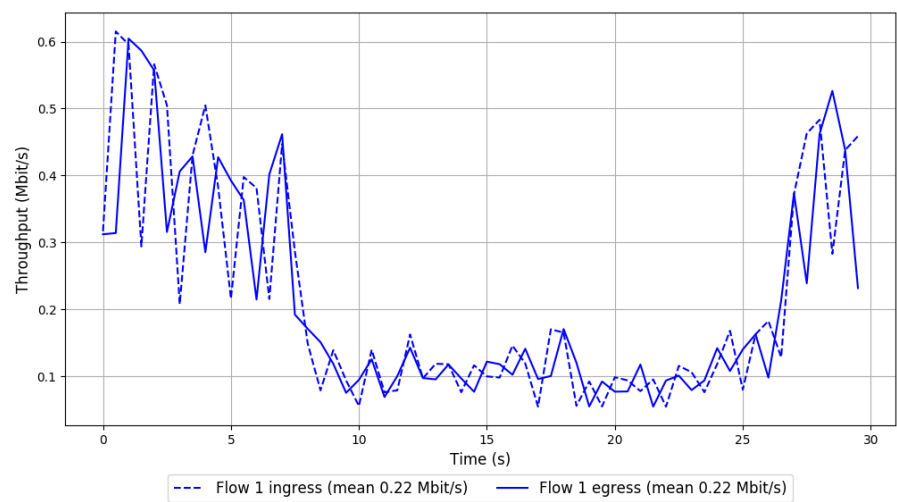
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 164.045 ms

Loss rate: 1.79%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-09 07:13:54

End at: 2018-01-09 07:14:24

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 163.781 ms

Loss rate: 0.95%

-- Flow 1:

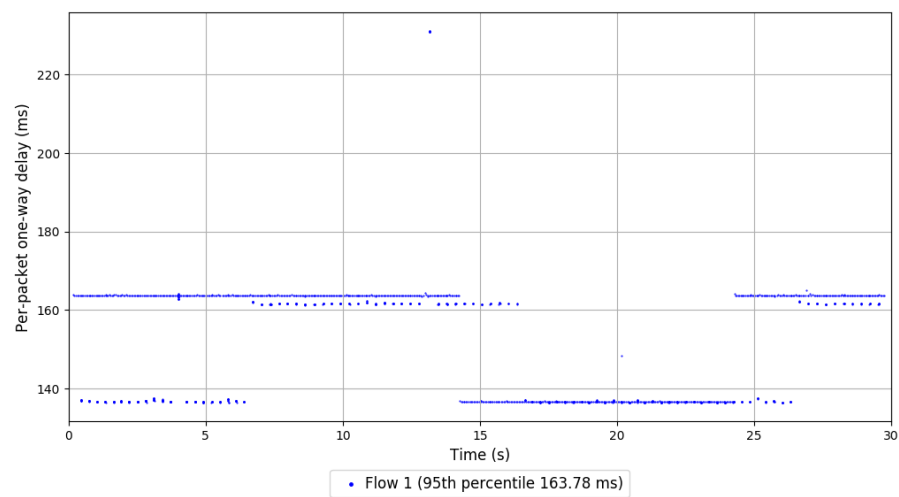
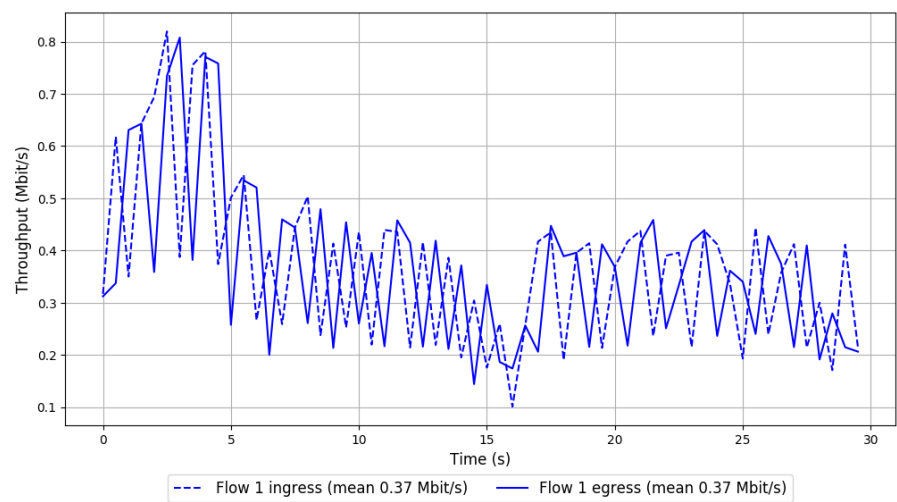
Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 163.781 ms

Loss rate: 0.95%



Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-09 07:26:26

End at: 2018-01-09 07:26:56

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 161.692 ms

Loss rate: 0.54%

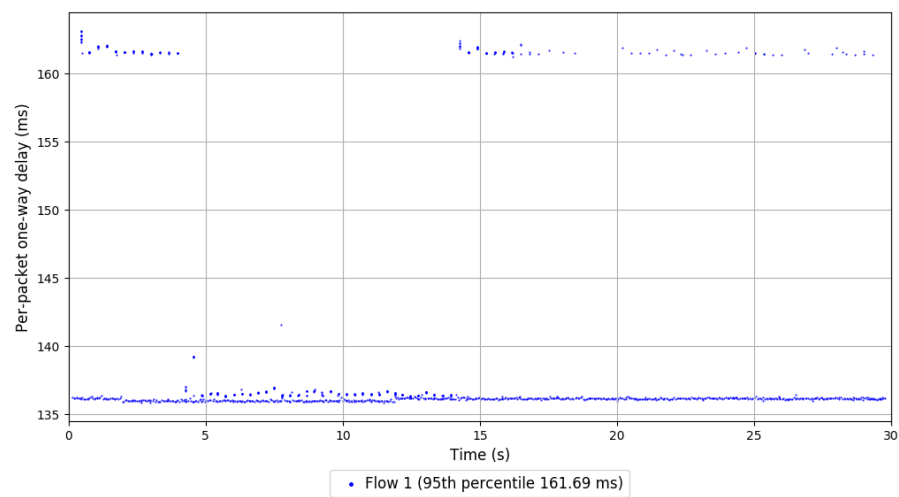
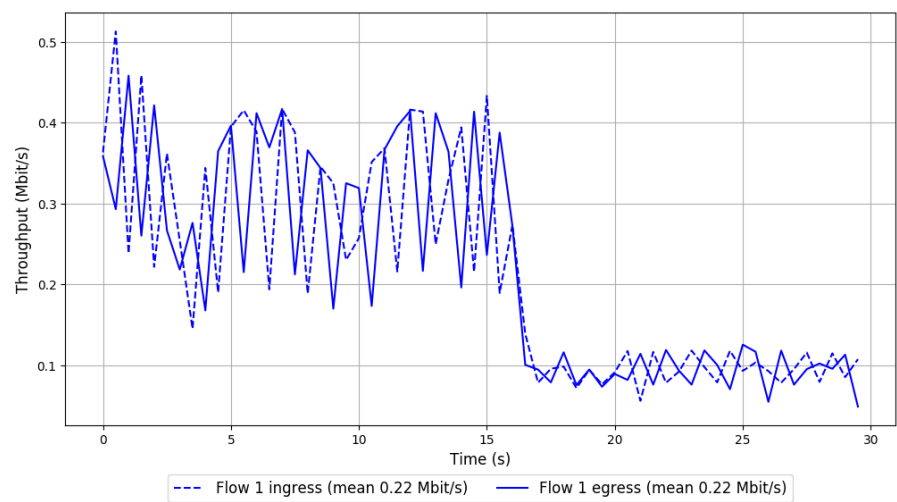
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 161.692 ms

Loss rate: 0.54%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-09 07:38:49

End at: 2018-01-09 07:39:19

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 137.295 ms

Loss rate: 1.99%

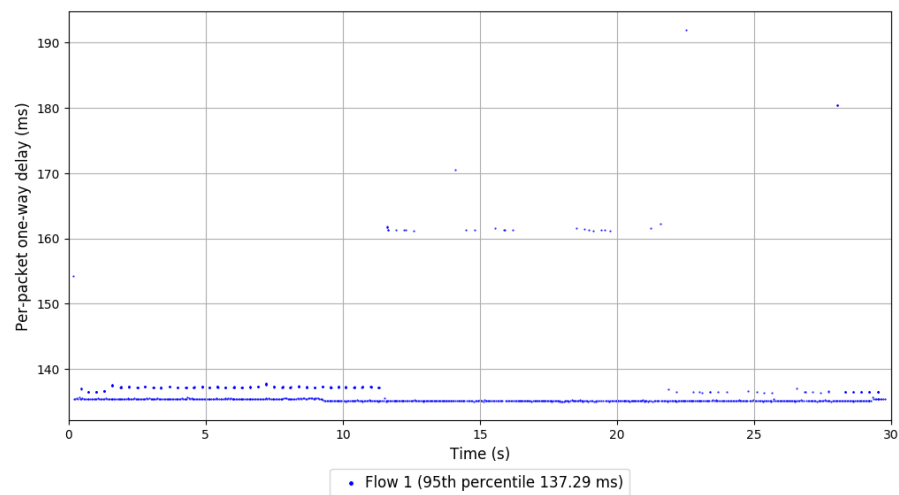
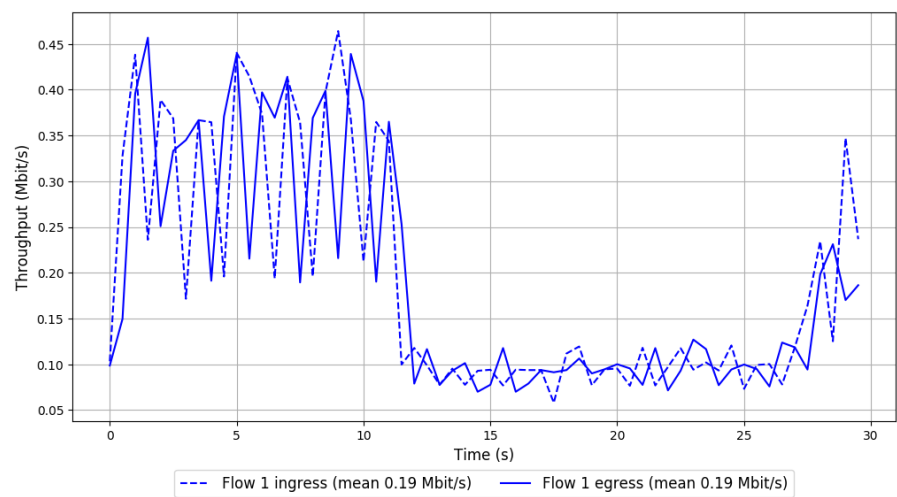
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 137.295 ms

Loss rate: 1.99%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-09 07:51:34

End at: 2018-01-09 07:52:04

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 137.483 ms

Loss rate: 0.74%

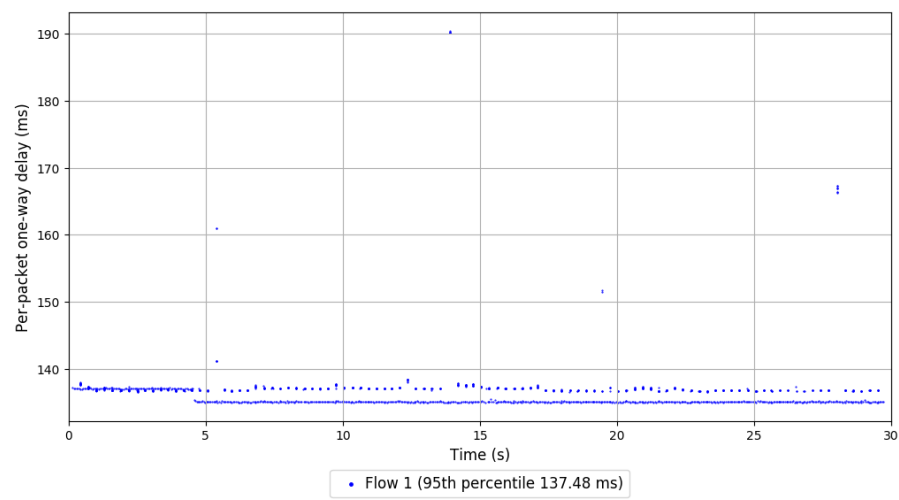
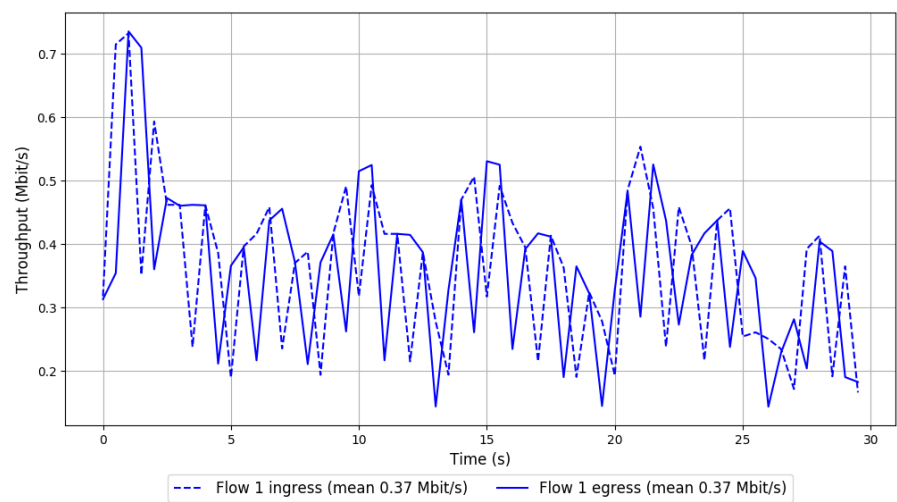
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 137.483 ms

Loss rate: 0.74%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-09 08:04:38

End at: 2018-01-09 08:05:08

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 137.223 ms

Loss rate: 1.31%

-- Flow 1:

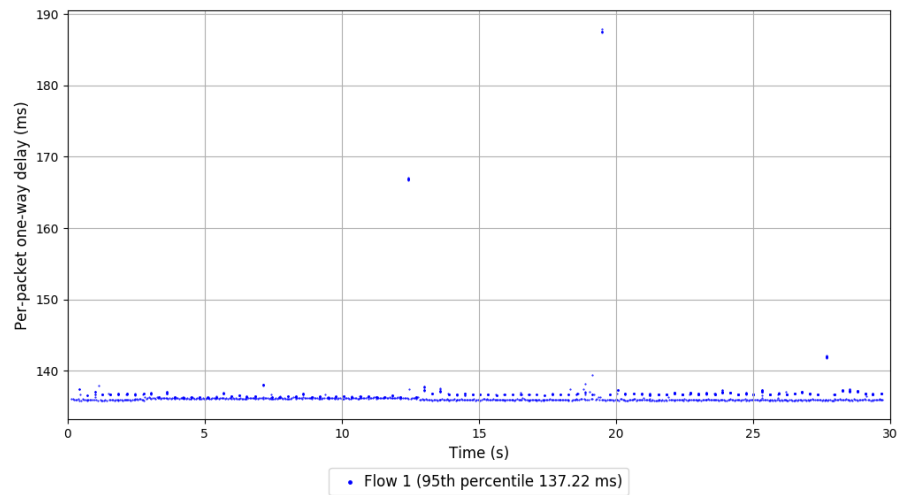
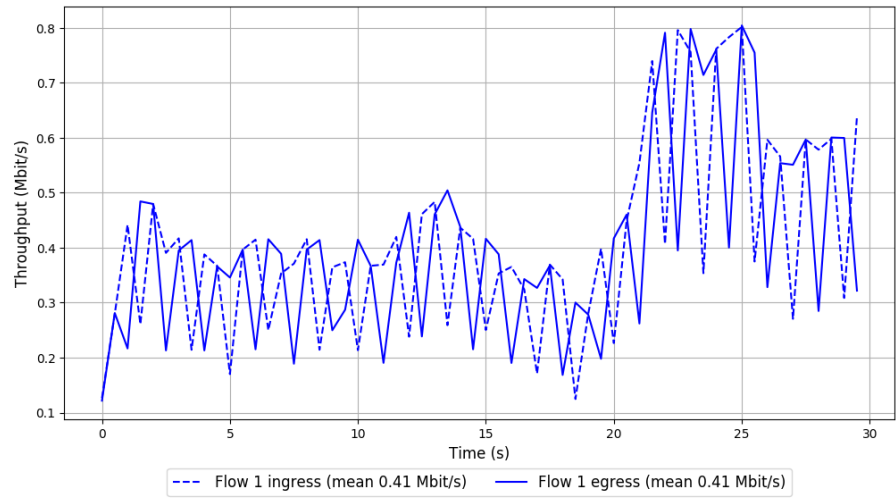
Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 137.223 ms

Loss rate: 1.31%



## Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-09 08:17:13

End at: 2018-01-09 08:17:43

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 159.518 ms

Loss rate: 1.57%

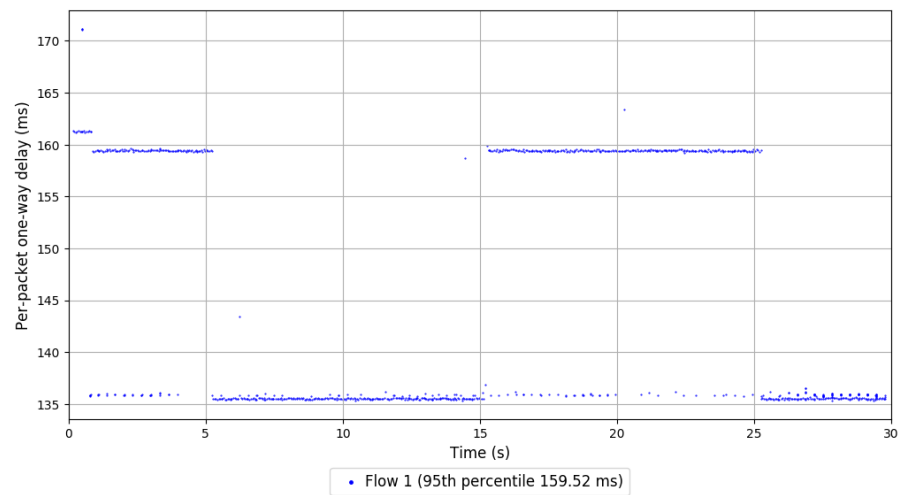
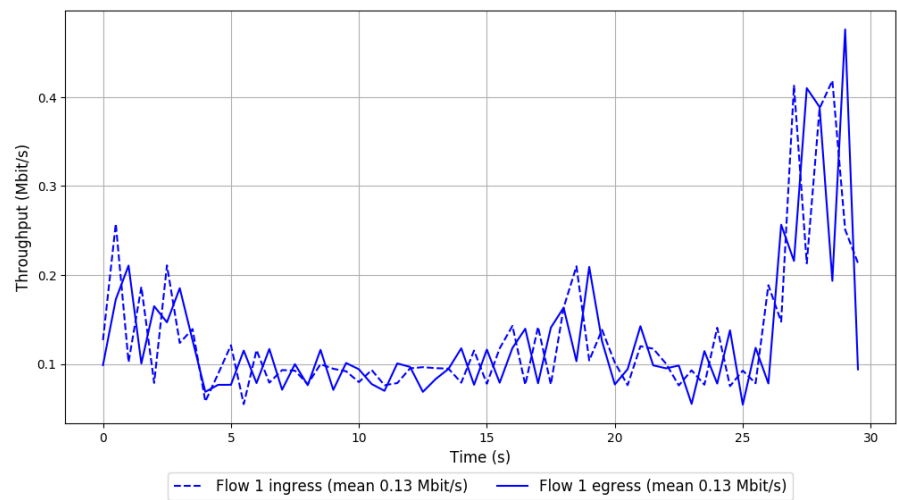
-- Flow 1:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 159.518 ms

Loss rate: 1.57%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-09 08:30:19

End at: 2018-01-09 08:30:49

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 163.292 ms

Loss rate: 0.63%

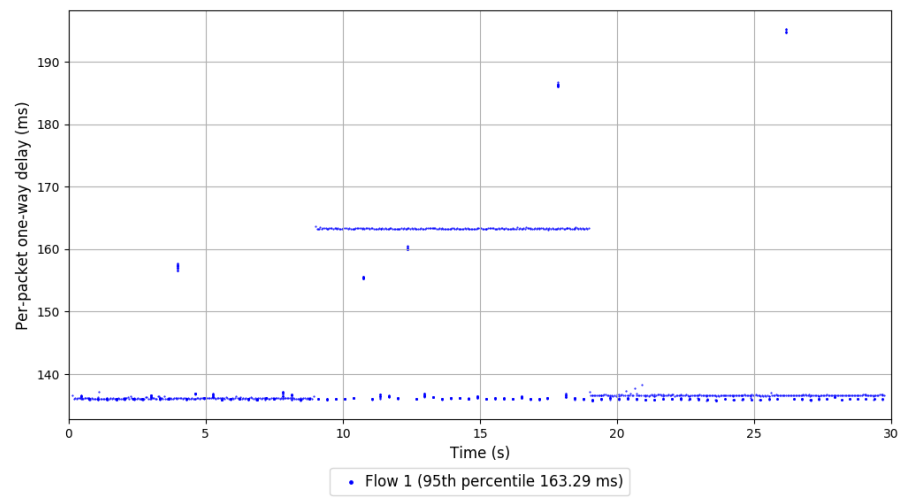
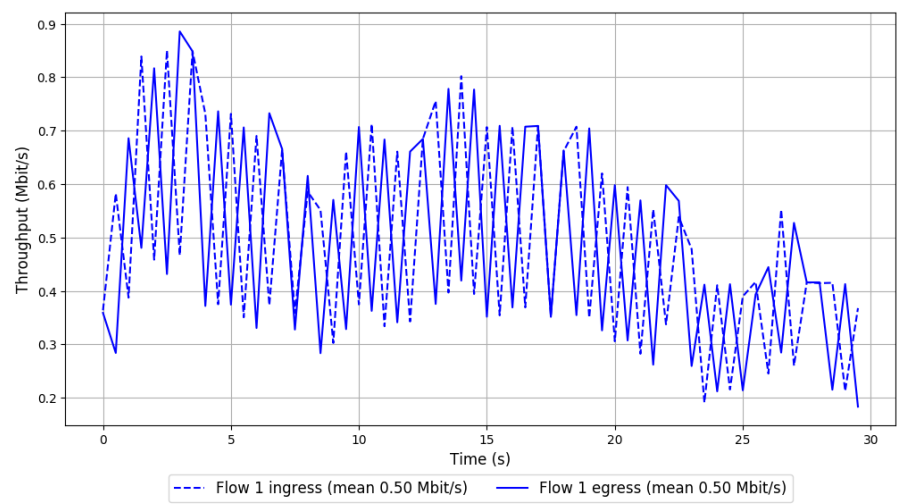
-- Flow 1:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 163.292 ms

Loss rate: 0.63%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-09 08:43:20

End at: 2018-01-09 08:43:50

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 136.543 ms

Loss rate: 0.77%

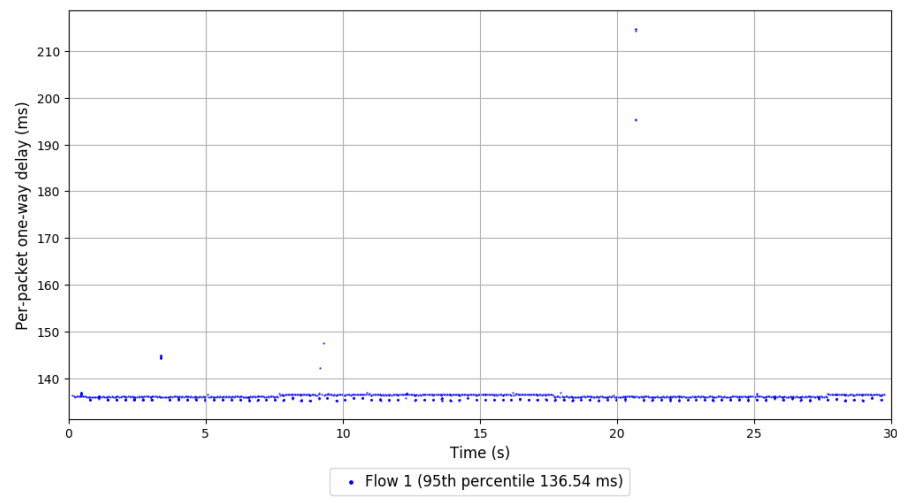
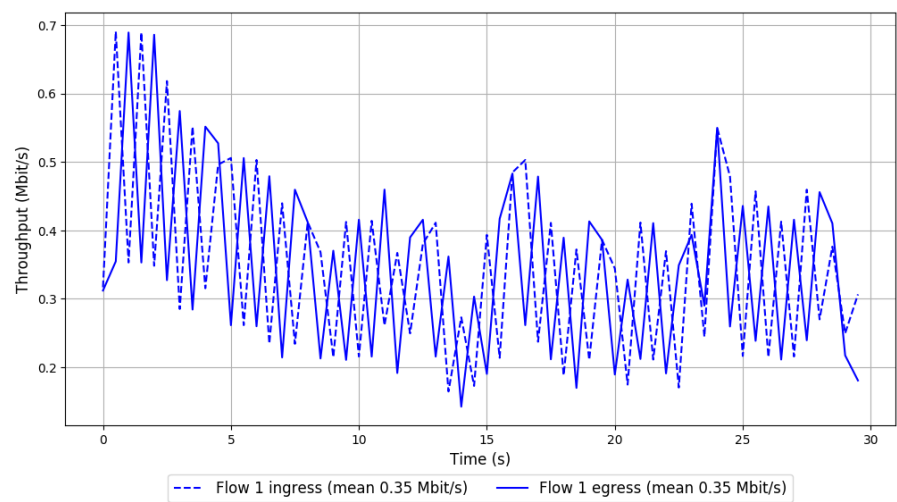
-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 136.543 ms

Loss rate: 0.77%

Run 10: Report of Sprout — Data Link



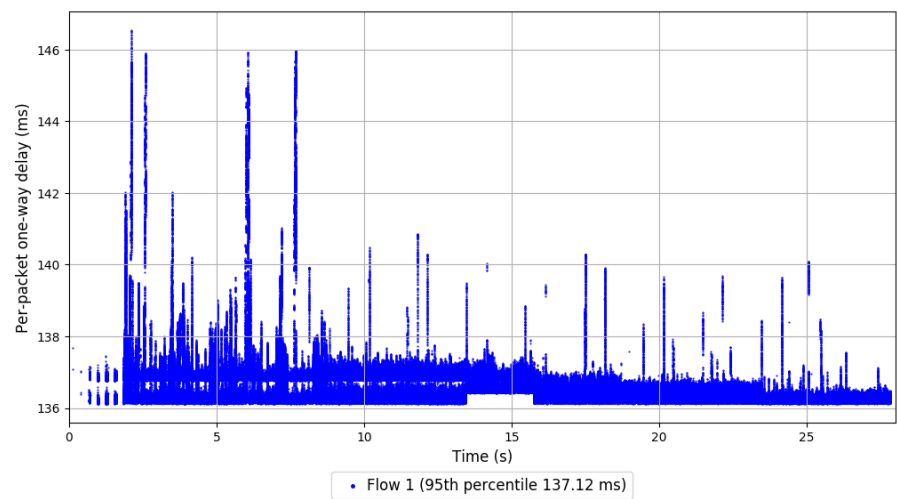
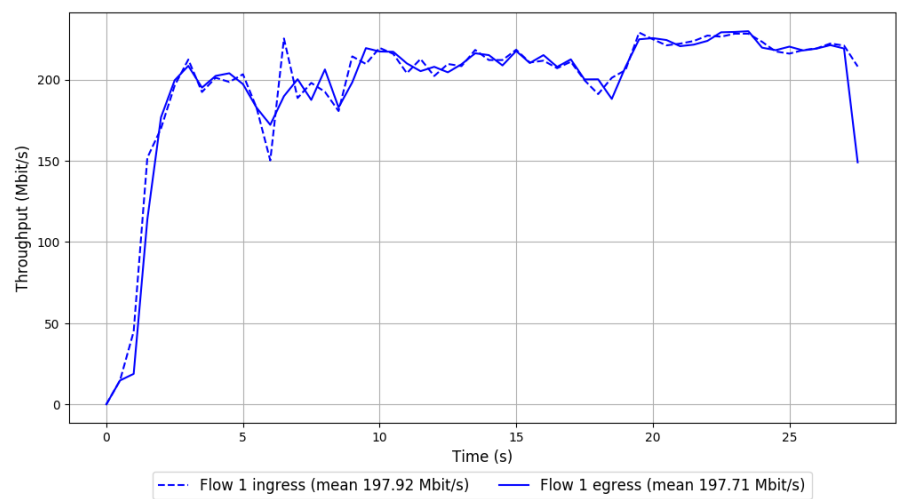
```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-09 06:38:13
End at: 2018-01-09 06:38:43

# Below is generated by plot.py at 2018-01-09 11:14:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 197.71 Mbit/s
95th percentile per-packet one-way delay: 137.122 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 197.71 Mbit/s
95th percentile per-packet one-way delay: 137.122 ms
Loss rate: 1.08%
```



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

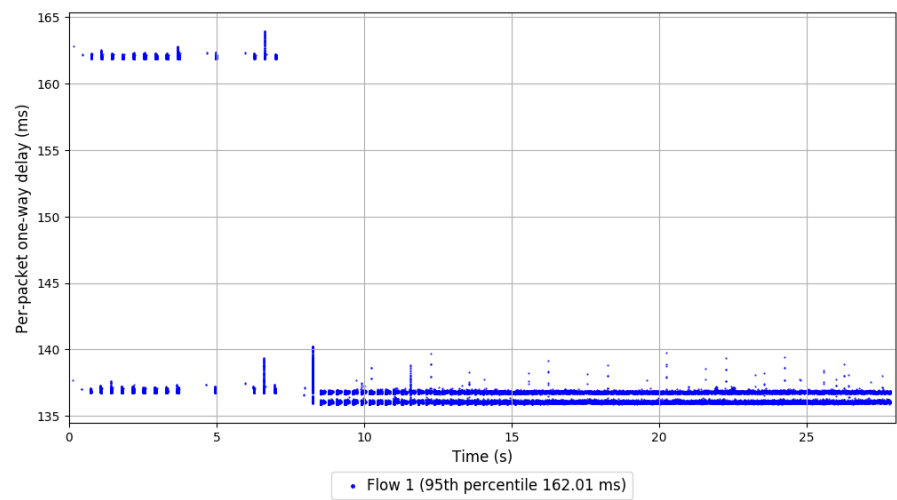
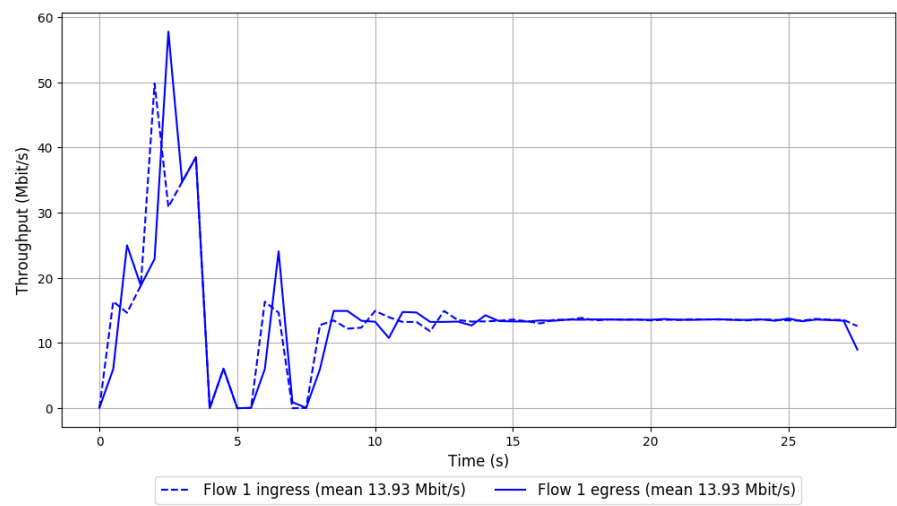


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-09 06:51:21
End at: 2018-01-09 06:51:51

# Below is generated by plot.py at 2018-01-09 11:14:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.93 Mbit/s
95th percentile per-packet one-way delay: 162.014 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 13.93 Mbit/s
95th percentile per-packet one-way delay: 162.014 ms
Loss rate: 0.96%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-01-09 07:04:01

End at: 2018-01-09 07:04:31

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 40.61 Mbit/s

95th percentile per-packet one-way delay: 139.380 ms

Loss rate: 0.58%

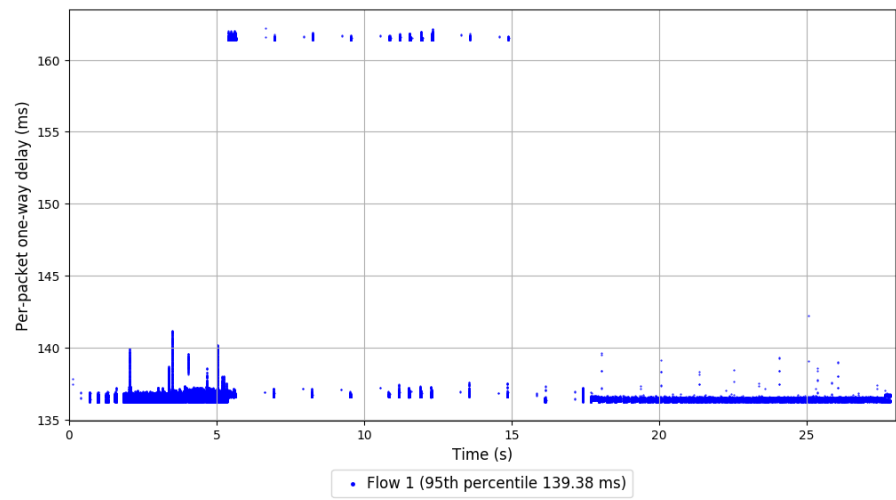
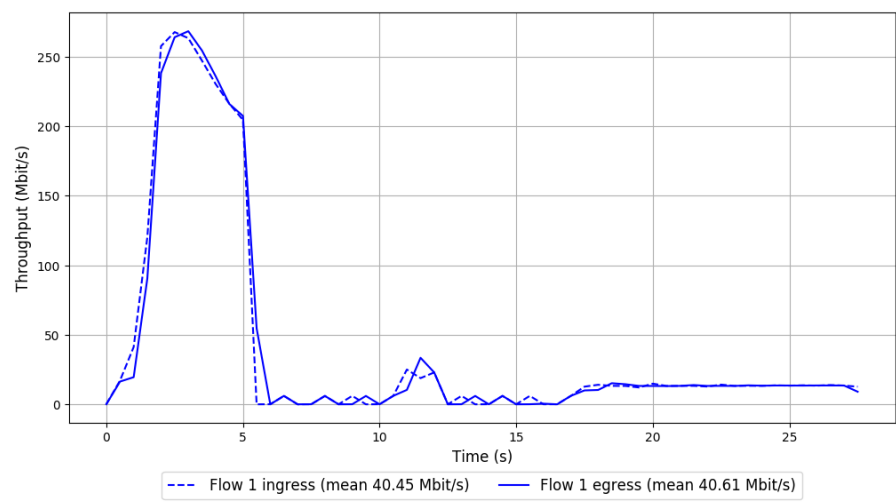
-- Flow 1:

Average throughput: 40.61 Mbit/s

95th percentile per-packet one-way delay: 139.380 ms

Loss rate: 0.58%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-09 07:16:58

End at: 2018-01-09 07:17:28

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.28 Mbit/s

95th percentile per-packet one-way delay: 161.438 ms

Loss rate: 1.90%

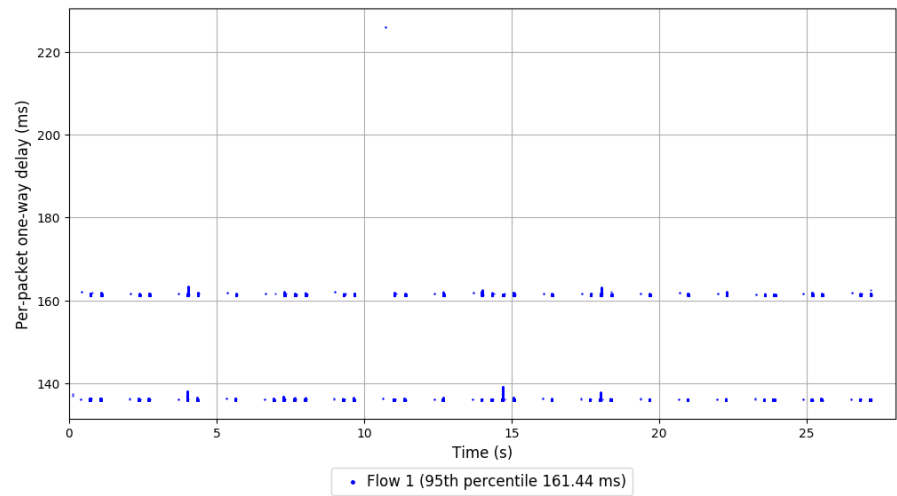
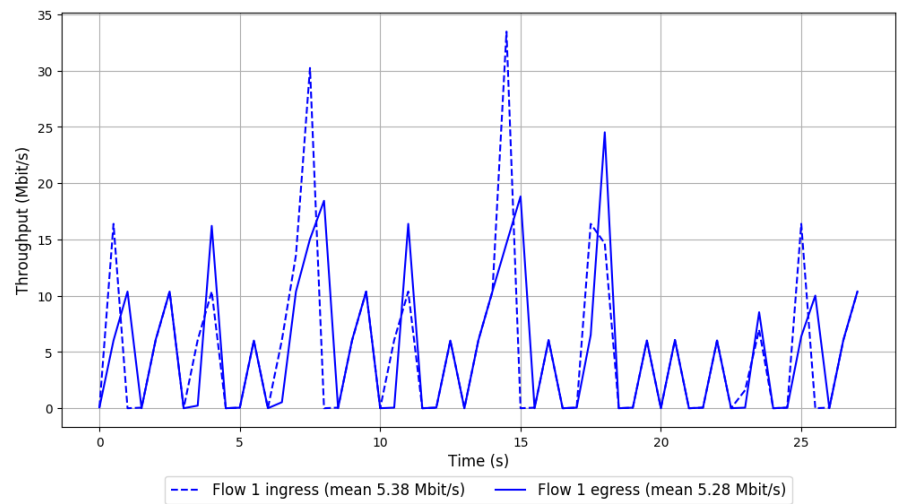
-- Flow 1:

Average throughput: 5.28 Mbit/s

95th percentile per-packet one-way delay: 161.438 ms

Loss rate: 1.90%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-09 07:29:25

End at: 2018-01-09 07:29:55

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.62 Mbit/s

95th percentile per-packet one-way delay: 161.287 ms

Loss rate: 0.00%

-- Flow 1:

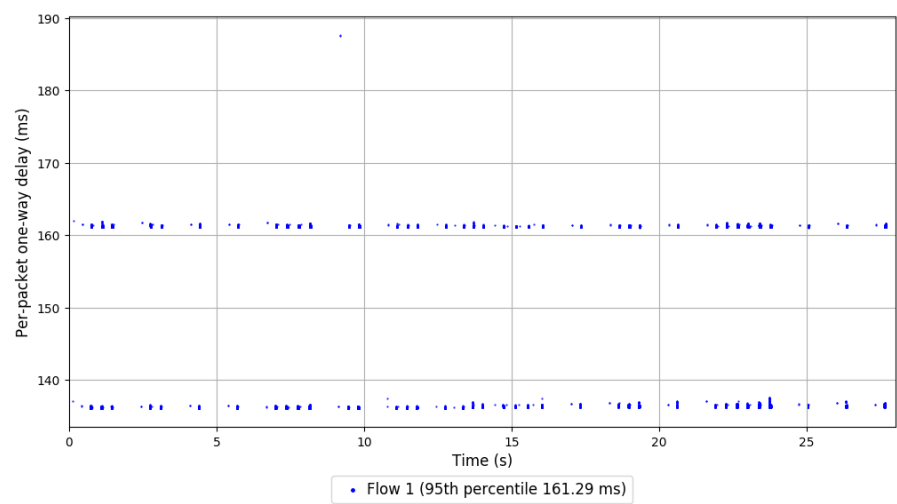
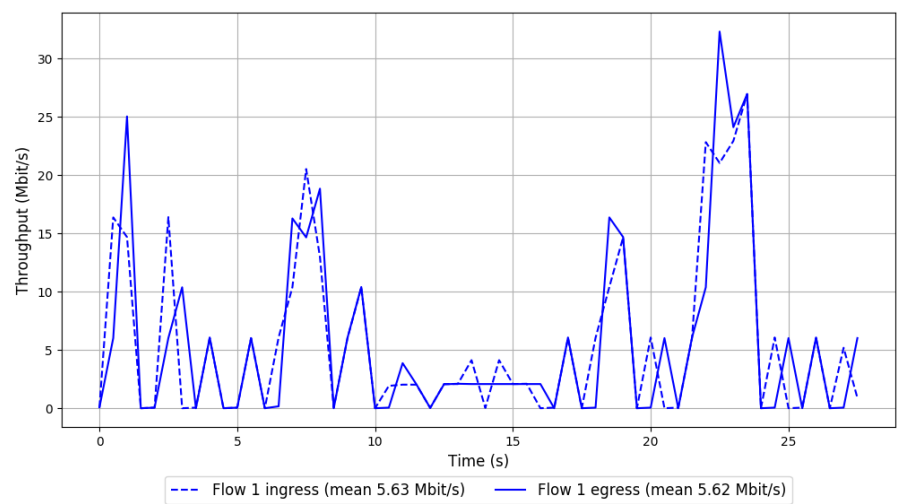
Average throughput: 5.62 Mbit/s

95th percentile per-packet one-way delay: 161.287 ms

Loss rate: 0.00%



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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-09 07:41:51

End at: 2018-01-09 07:42:21

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.99 Mbit/s

95th percentile per-packet one-way delay: 136.613 ms

Loss rate: 1.49%

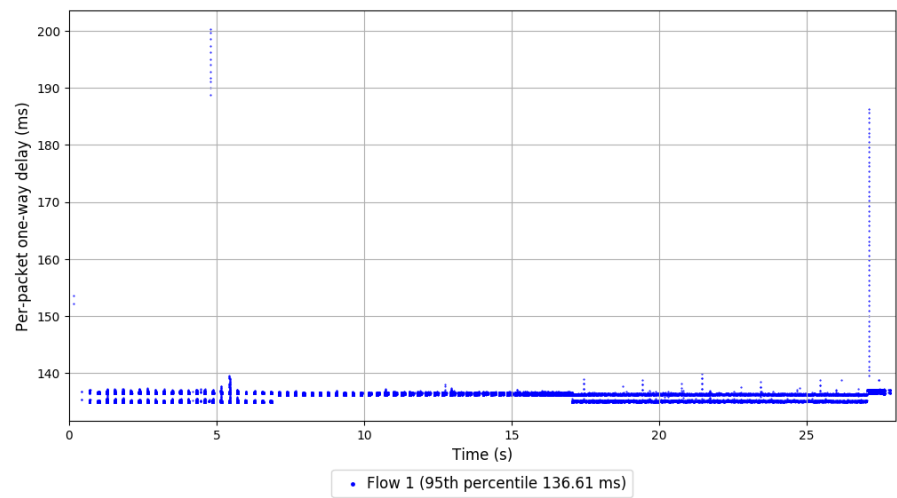
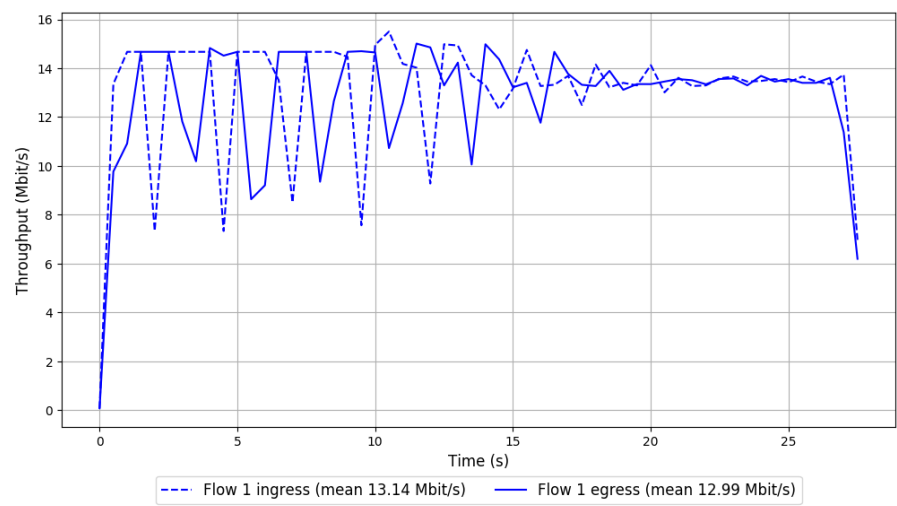
-- Flow 1:

Average throughput: 12.99 Mbit/s

95th percentile per-packet one-way delay: 136.613 ms

Loss rate: 1.49%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-09 07:54:36

End at: 2018-01-09 07:55:06

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 204.15 Mbit/s

95th percentile per-packet one-way delay: 137.157 ms

Loss rate: 1.04%

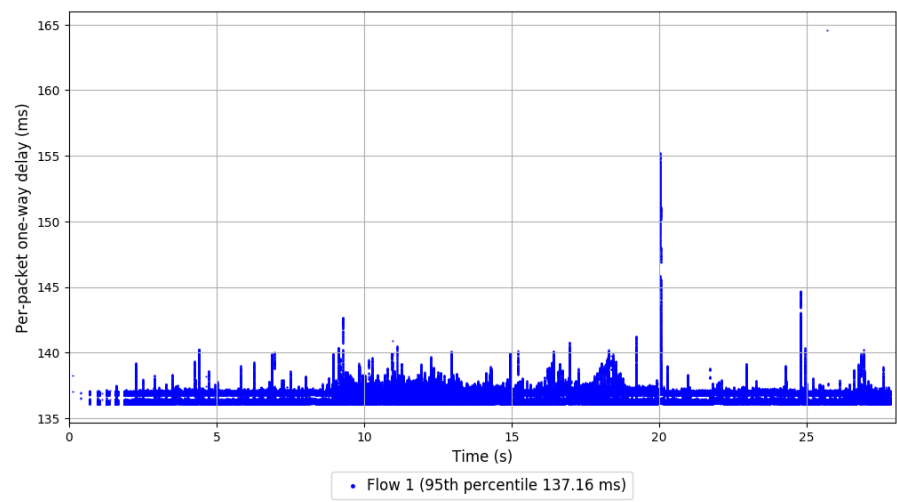
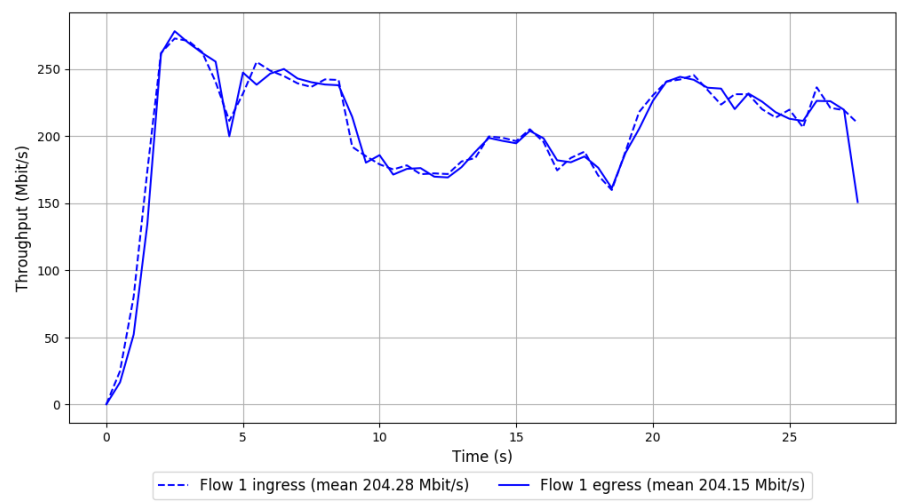
-- Flow 1:

Average throughput: 204.15 Mbit/s

95th percentile per-packet one-way delay: 137.157 ms

Loss rate: 1.04%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-09 08:07:42

End at: 2018-01-09 08:08:12

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.25 Mbit/s

95th percentile per-packet one-way delay: 136.588 ms

Loss rate: 1.73%

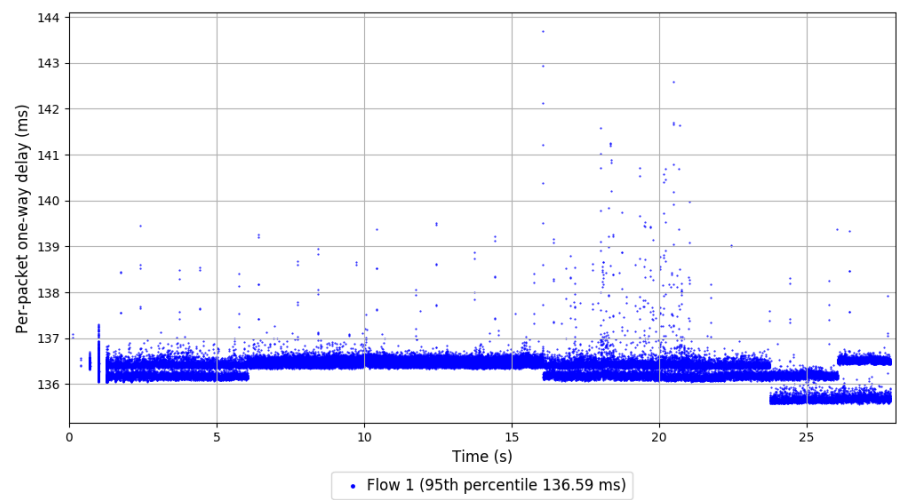
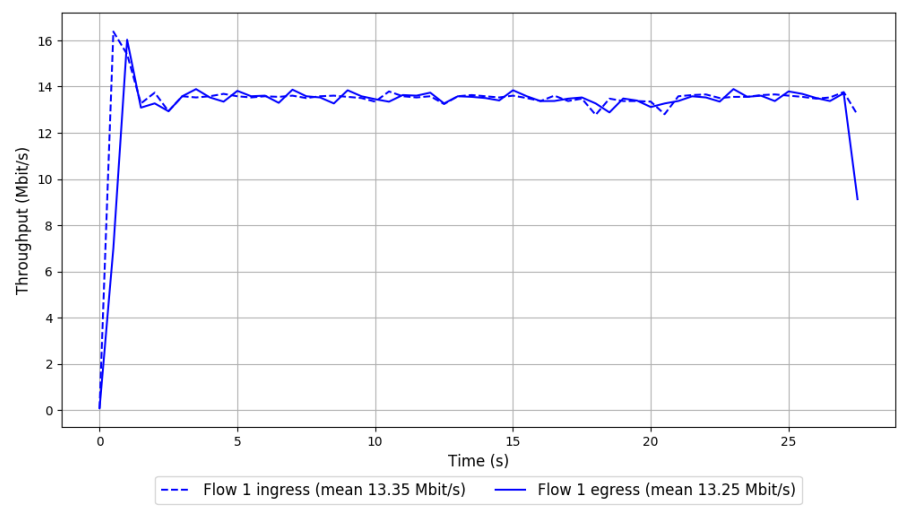
-- Flow 1:

Average throughput: 13.25 Mbit/s

95th percentile per-packet one-way delay: 136.588 ms

Loss rate: 1.73%

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



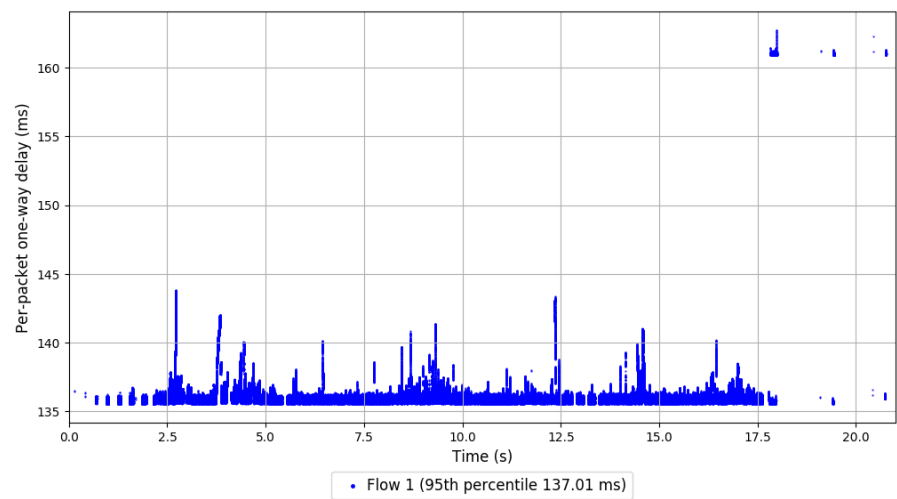
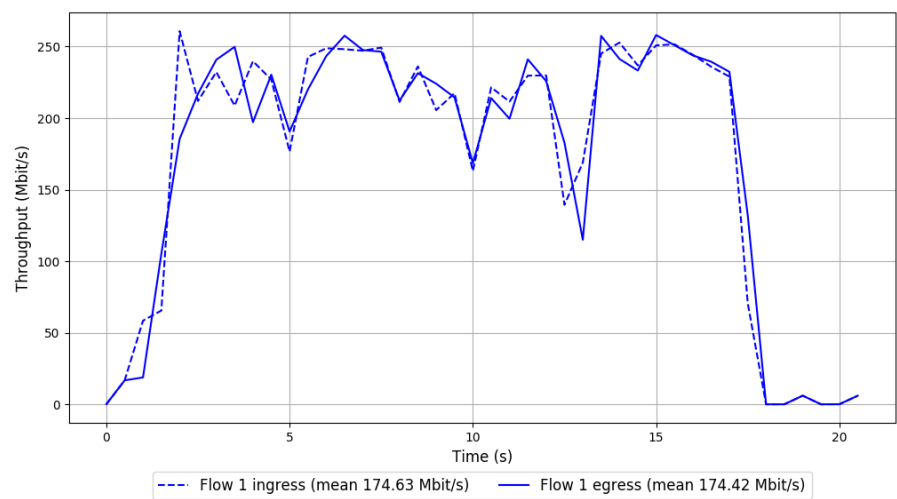
Run 9: Statistics of TaoVA-100x

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

End at: 2018-01-09 08:20:48



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

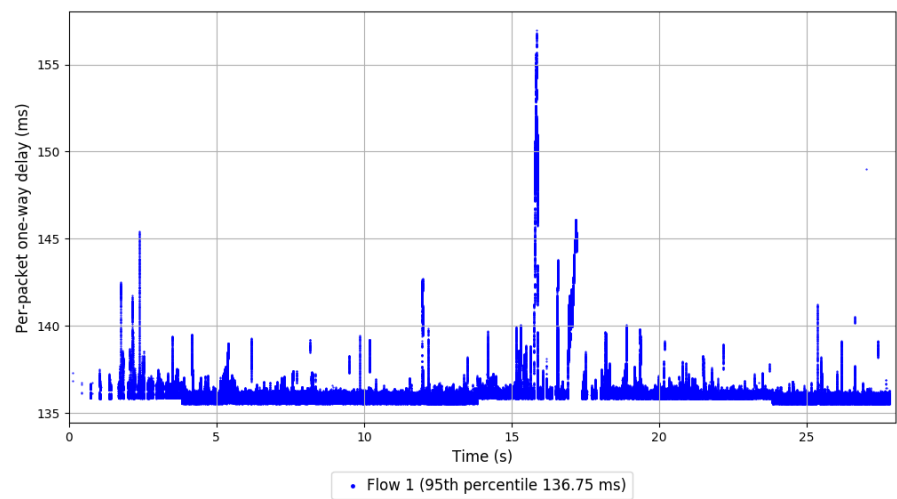
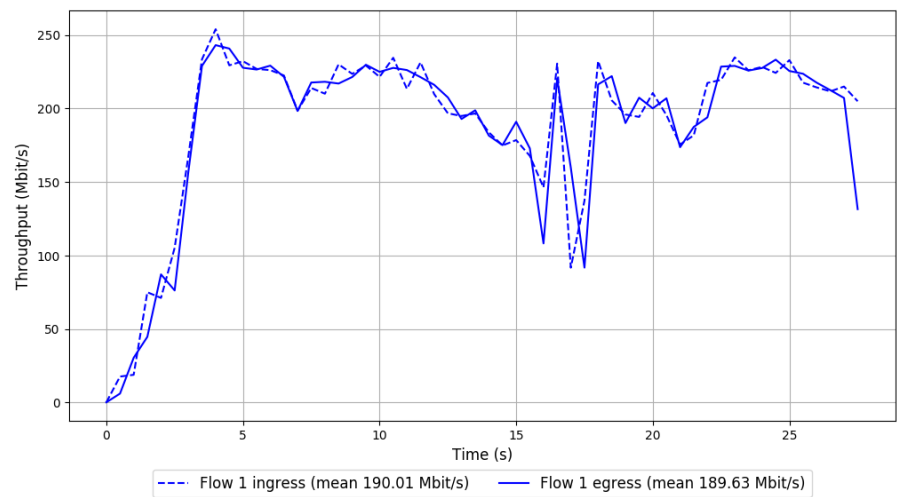


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-09 08:33:25
End at: 2018-01-09 08:33:55

# Below is generated by plot.py at 2018-01-09 11:14:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 189.63 Mbit/s
95th percentile per-packet one-way delay: 136.754 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 189.63 Mbit/s
95th percentile per-packet one-way delay: 136.754 ms
Loss rate: 1.27%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-09 06:41:14

End at: 2018-01-09 06:41:44

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 15.63 Mbit/s

95th percentile per-packet one-way delay: 138.619 ms

Loss rate: 1.14%

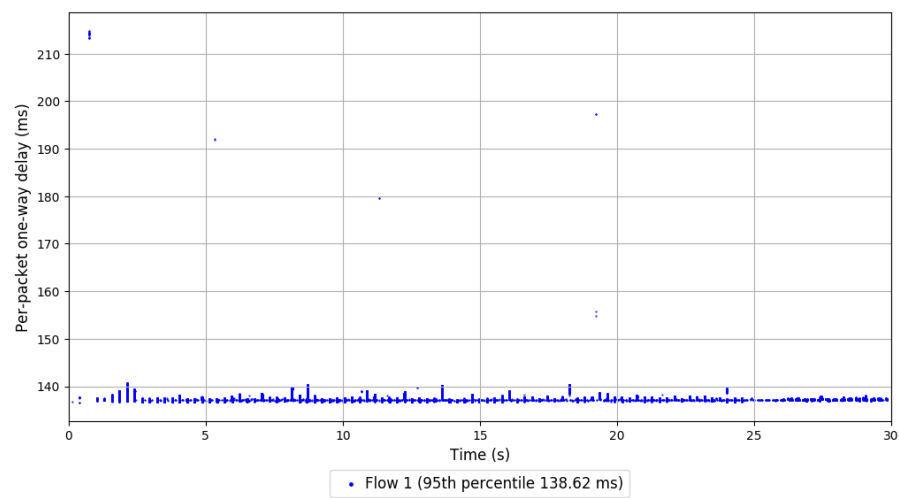
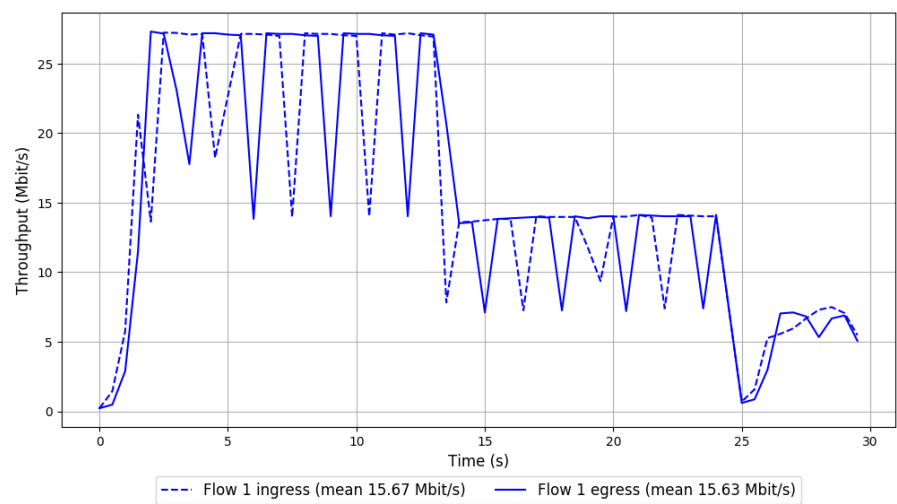
-- Flow 1:

Average throughput: 15.63 Mbit/s

95th percentile per-packet one-way delay: 138.619 ms

Loss rate: 1.14%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-09 06:54:05

End at: 2018-01-09 06:54:35

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 3.19 Mbit/s

95th percentile per-packet one-way delay: 137.885 ms

Loss rate: 4.72%

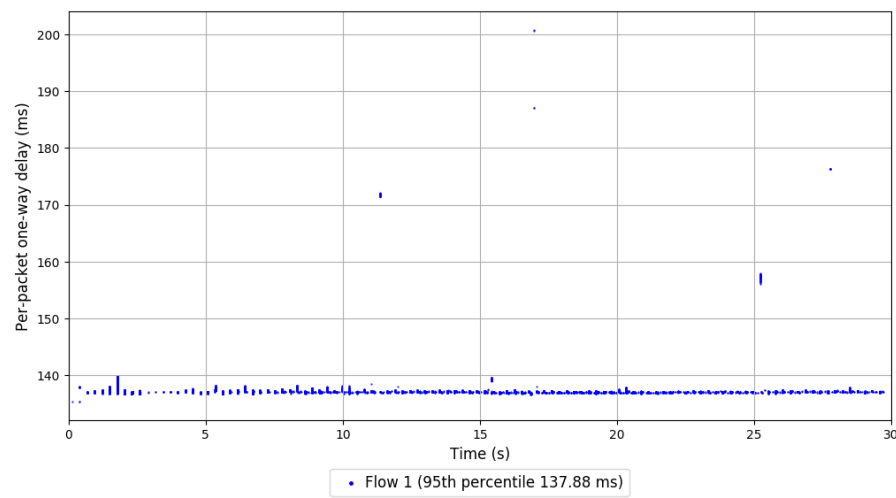
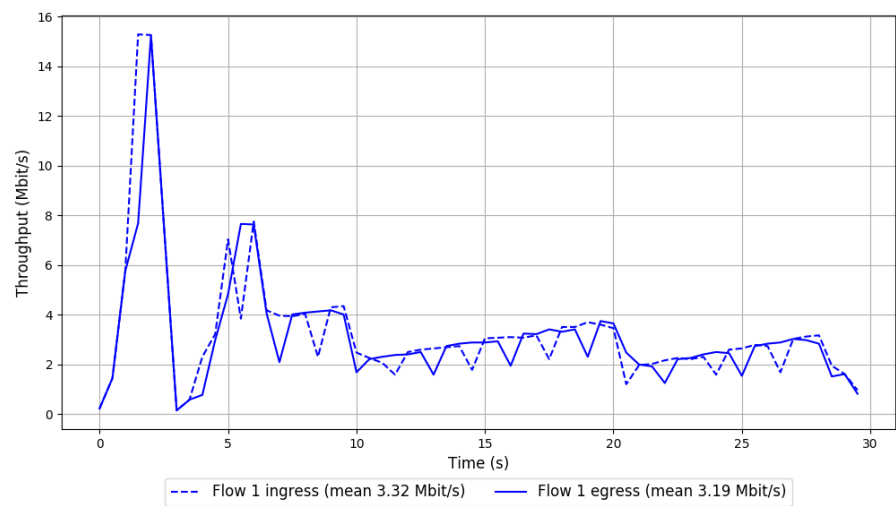
-- Flow 1:

Average throughput: 3.19 Mbit/s

95th percentile per-packet one-way delay: 137.885 ms

Loss rate: 4.72%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-09 07:06:49

End at: 2018-01-09 07:07:19

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 137.335 ms

Loss rate: 4.33%

-- Flow 1:

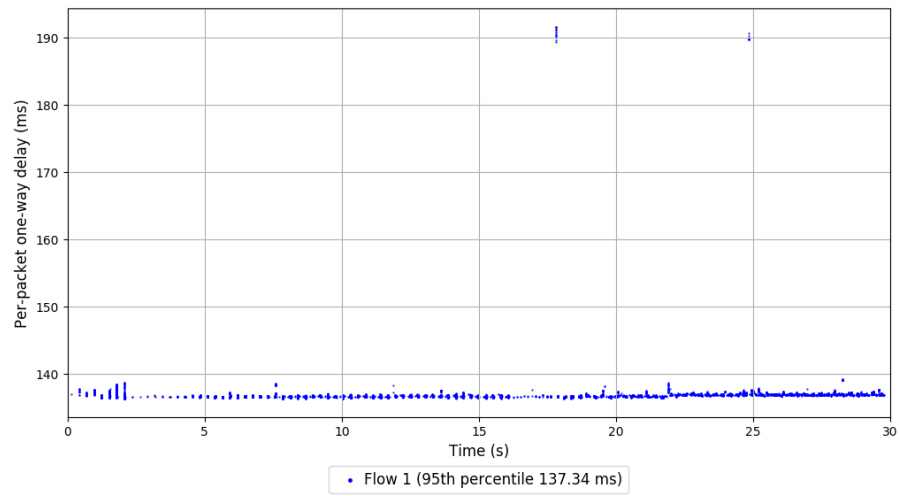
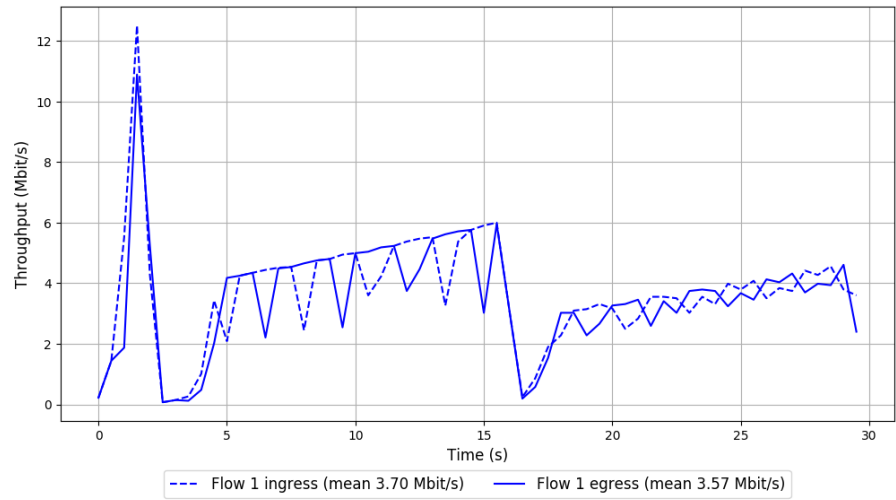
Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 137.335 ms

Loss rate: 4.33%



### Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-09 07:19:39

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

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 3.01 Mbit/s

95th percentile per-packet one-way delay: 136.904 ms

Loss rate: 1.01%

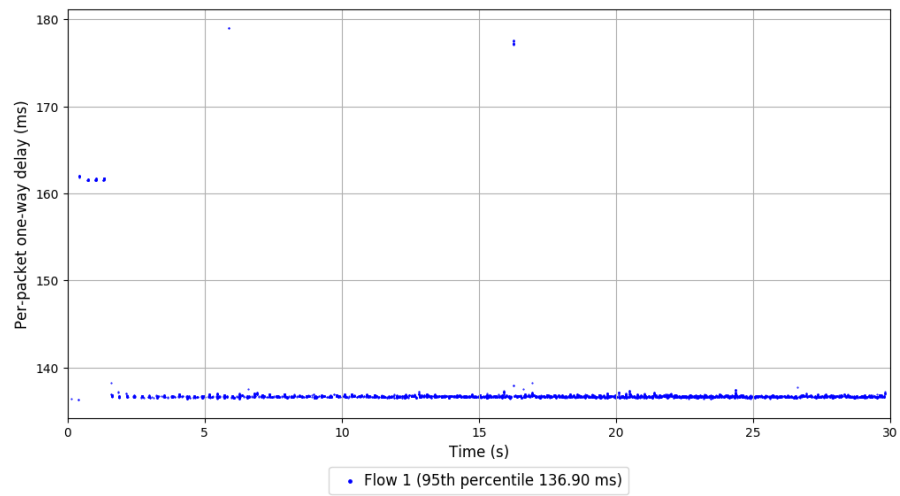
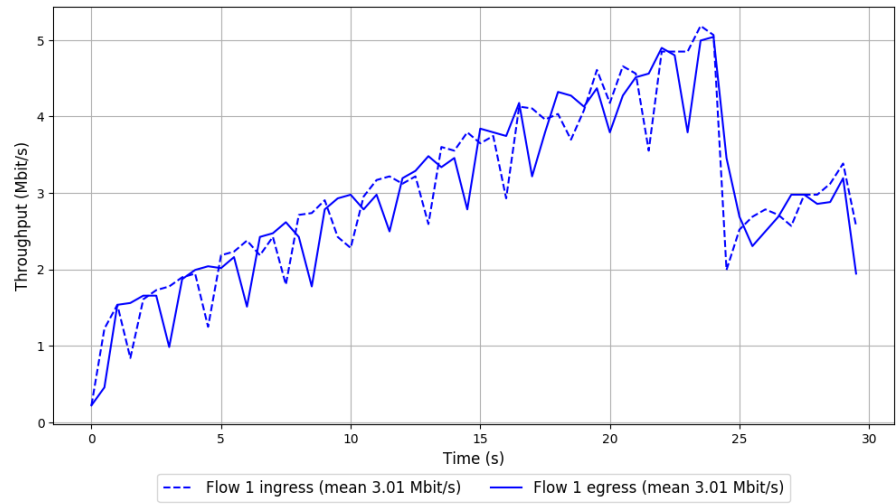
-- Flow 1:

Average throughput: 3.01 Mbit/s

95th percentile per-packet one-way delay: 136.904 ms

Loss rate: 1.01%

#### Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-09 07:31:54

End at: 2018-01-09 07:32:24

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 161.693 ms

Loss rate: 1.29%

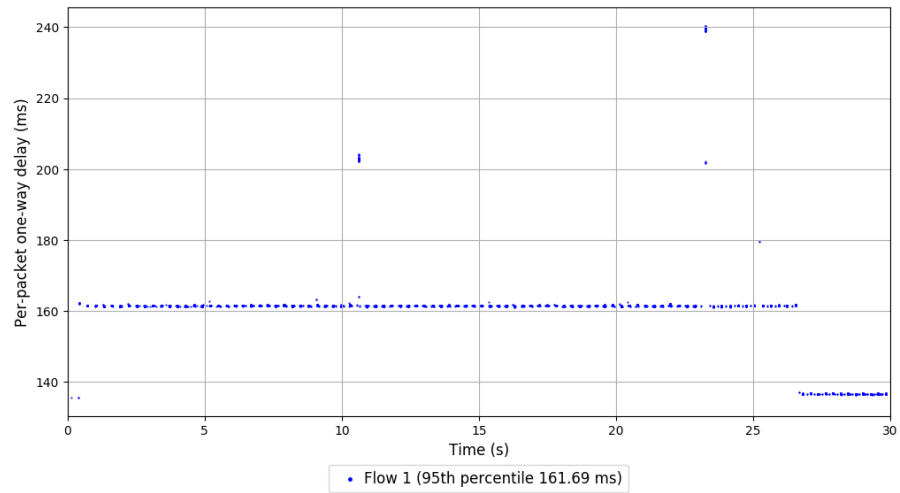
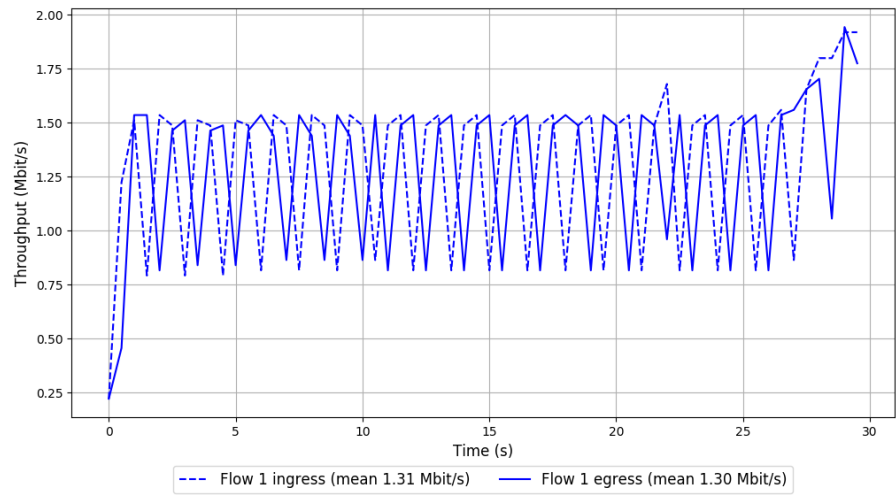
-- Flow 1:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 161.693 ms

Loss rate: 1.29%

### Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-09 07:44:28

End at: 2018-01-09 07:44:58

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.77 Mbit/s

95th percentile per-packet one-way delay: 138.203 ms

Loss rate: 3.24%

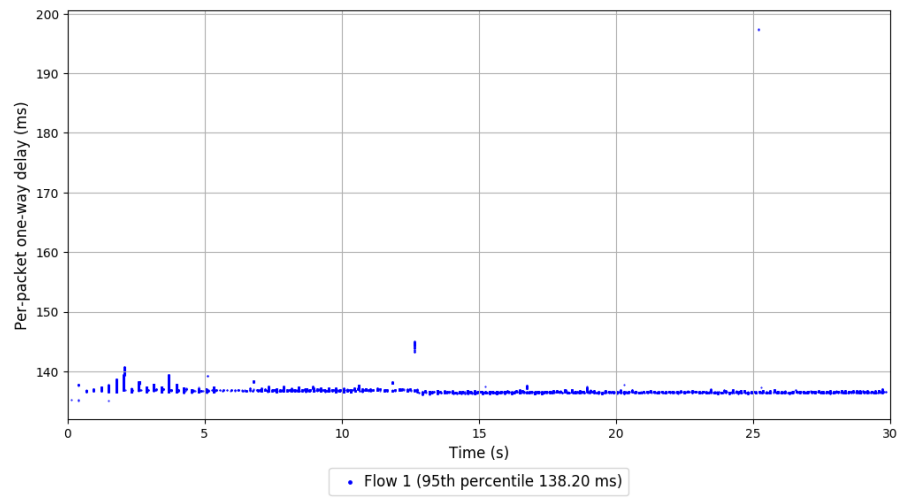
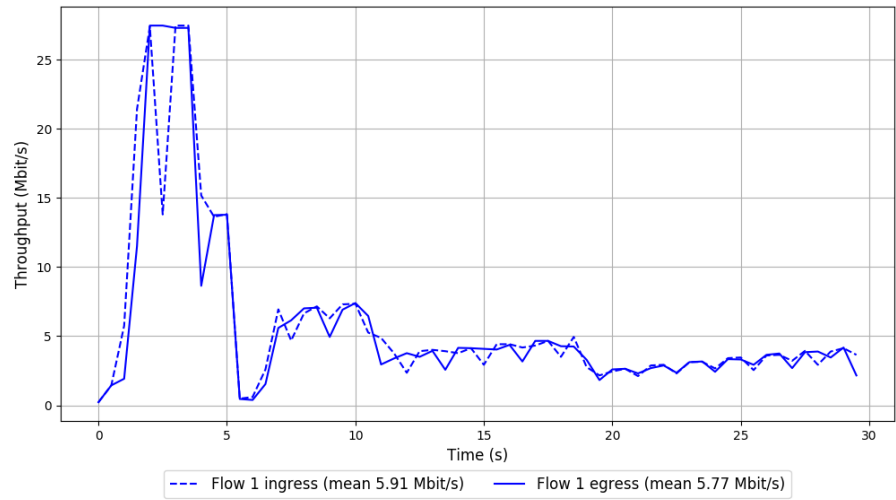
-- Flow 1:

Average throughput: 5.77 Mbit/s

95th percentile per-packet one-way delay: 138.203 ms

Loss rate: 3.24%

## Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-09 07:57:37

End at: 2018-01-09 07:58:07

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 9.24 Mbit/s

95th percentile per-packet one-way delay: 138.877 ms

Loss rate: 0.65%

-- Flow 1:

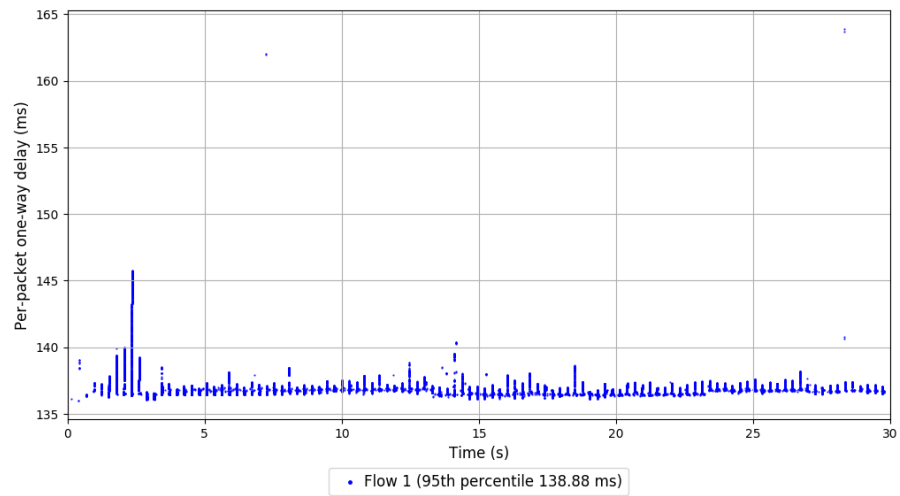
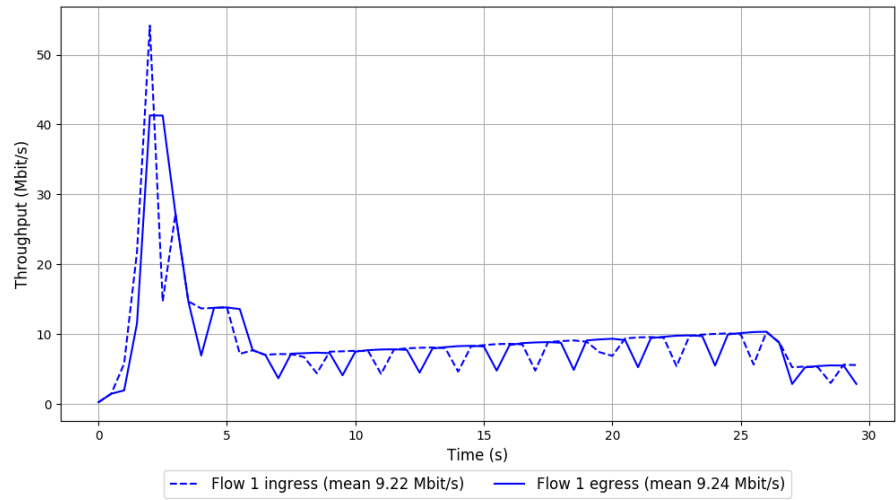
Average throughput: 9.24 Mbit/s

95th percentile per-packet one-way delay: 138.877 ms

Loss rate: 0.65%



## Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-09 08:10:21

End at: 2018-01-09 08:10:51

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.52 Mbit/s

95th percentile per-packet one-way delay: 140.112 ms

Loss rate: 3.62%

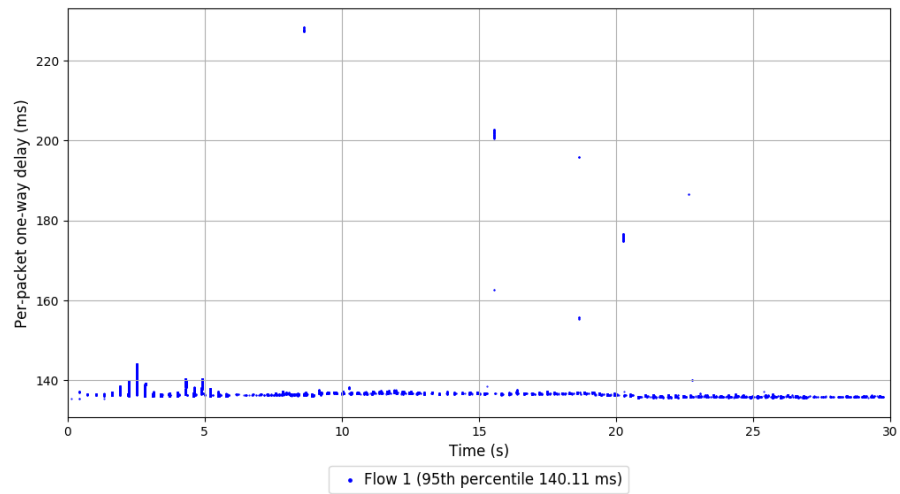
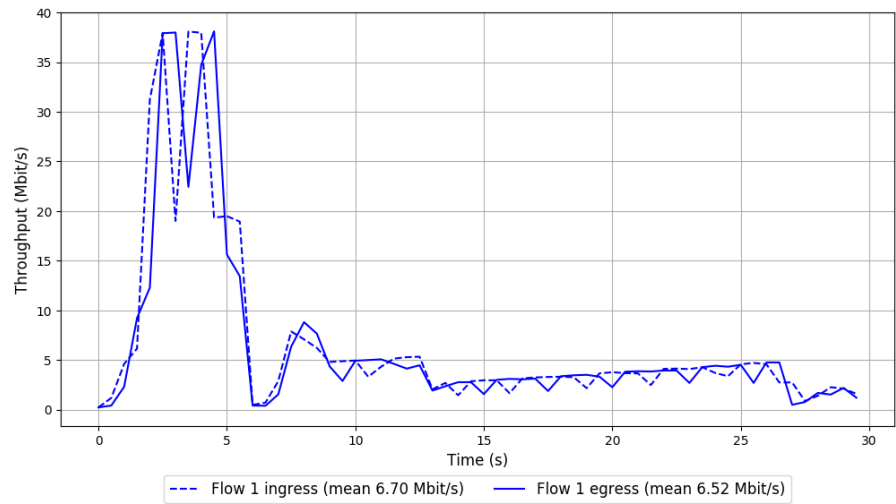
-- Flow 1:

Average throughput: 6.52 Mbit/s

95th percentile per-packet one-way delay: 140.112 ms

Loss rate: 3.62%

## Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-09 08:23:15

End at: 2018-01-09 08:23:45

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 3.12 Mbit/s

95th percentile per-packet one-way delay: 136.552 ms

Loss rate: 2.62%

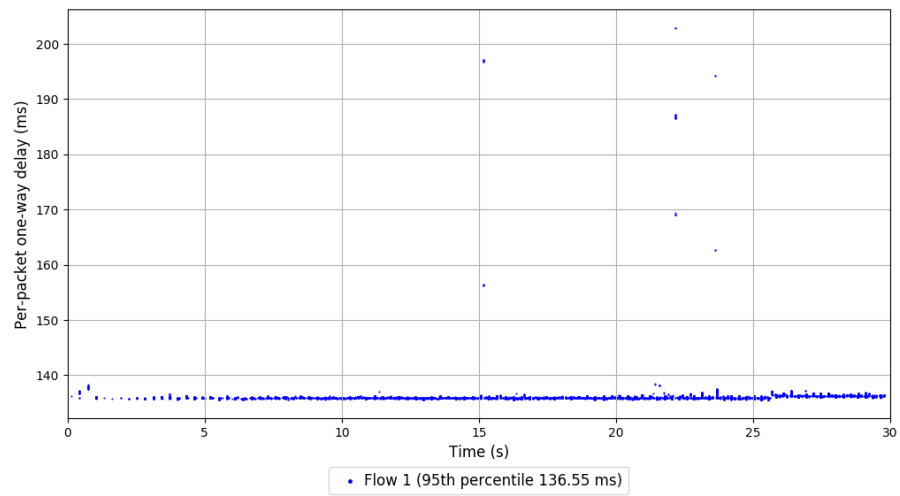
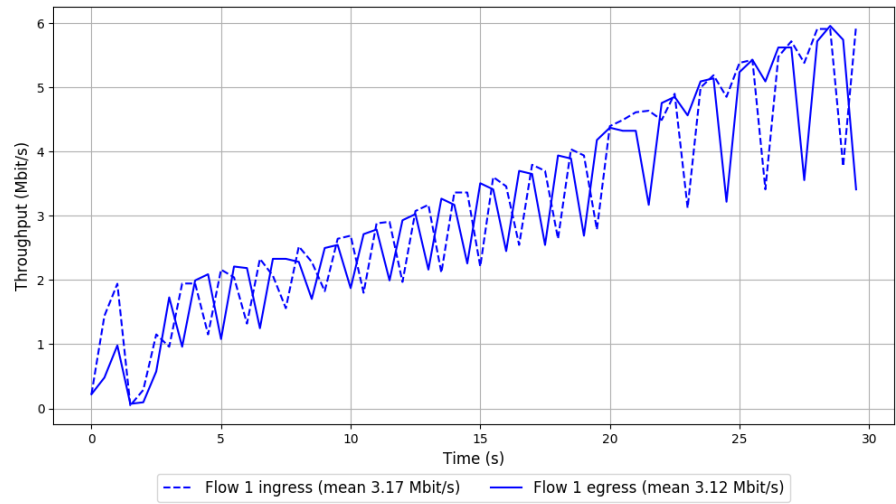
-- Flow 1:

Average throughput: 3.12 Mbit/s

95th percentile per-packet one-way delay: 136.552 ms

Loss rate: 2.62%

### Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-09 08:36:28

End at: 2018-01-09 08:36:58

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.57 Mbit/s

95th percentile per-packet one-way delay: 138.051 ms

Loss rate: 0.67%

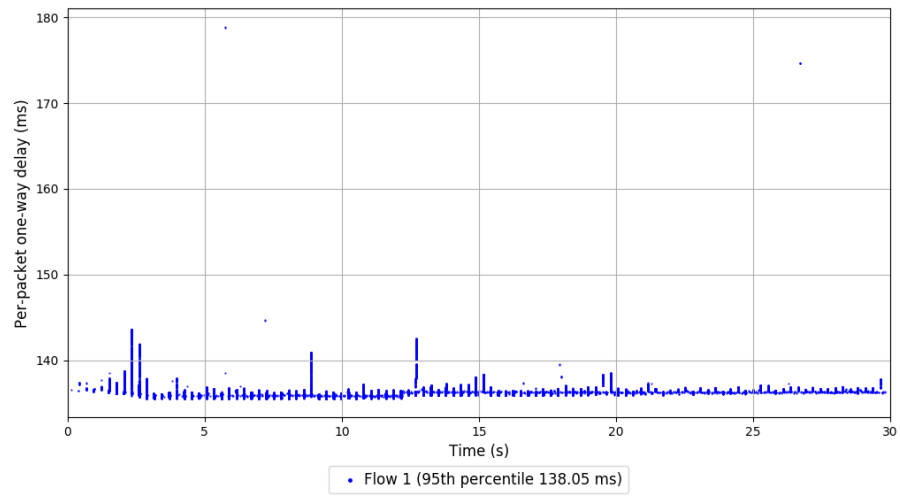
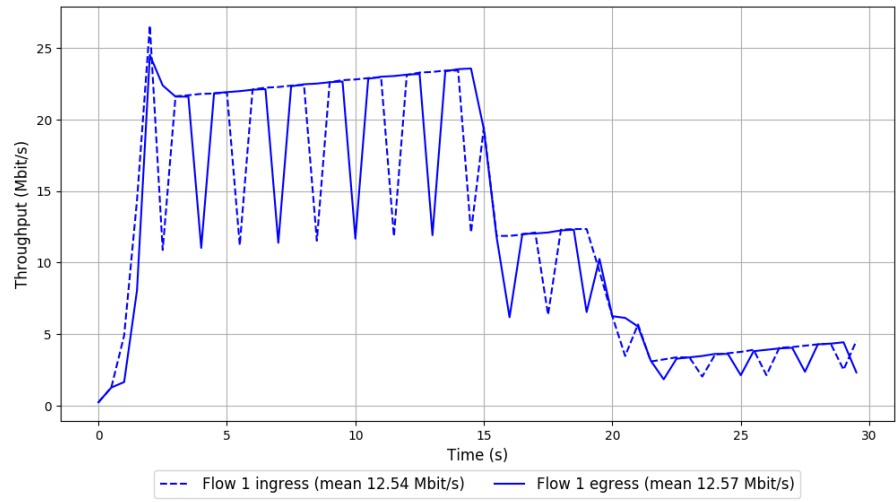
-- Flow 1:

Average throughput: 12.57 Mbit/s

95th percentile per-packet one-way delay: 138.051 ms

Loss rate: 0.67%

# Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-09 06:44:58

End at: 2018-01-09 06:45:28

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 205.80 Mbit/s

95th percentile per-packet one-way delay: 161.151 ms

Loss rate: 2.50%

-- Flow 1:

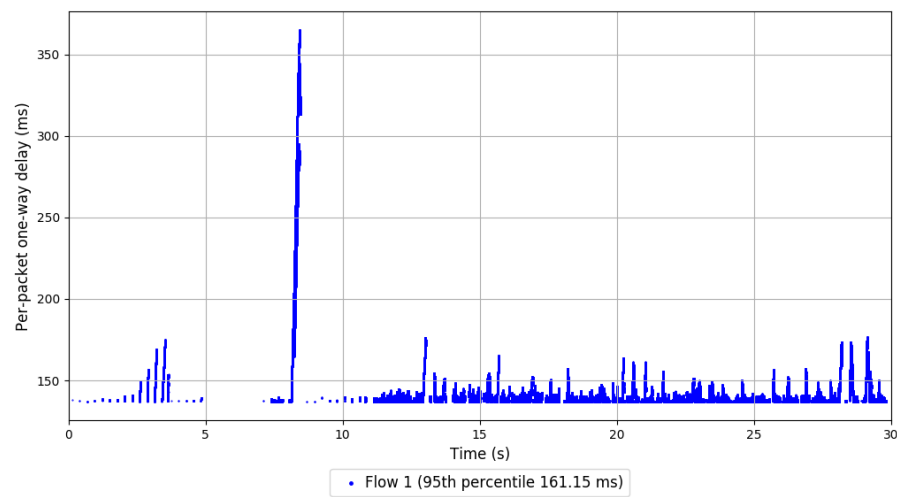
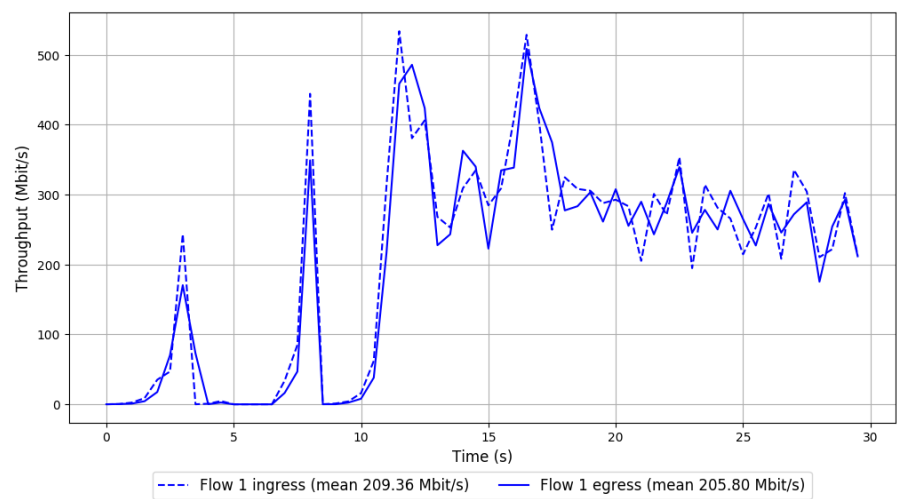
Average throughput: 205.80 Mbit/s

95th percentile per-packet one-way delay: 161.151 ms

Loss rate: 2.50%



Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-09 06:57:48

End at: 2018-01-09 06:58:18

# Below is generated by plot.py at 2018-01-09 11:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 176.97 Mbit/s

95th percentile per-packet one-way delay: 194.044 ms

Loss rate: 2.71%

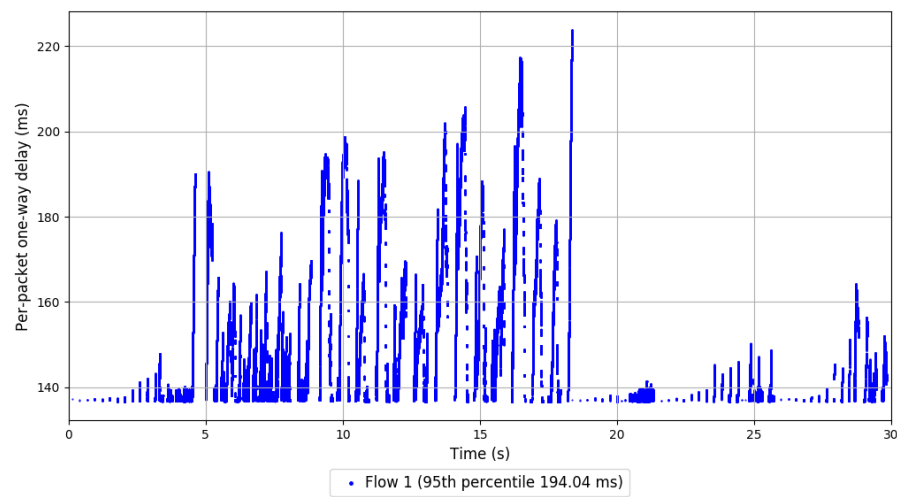
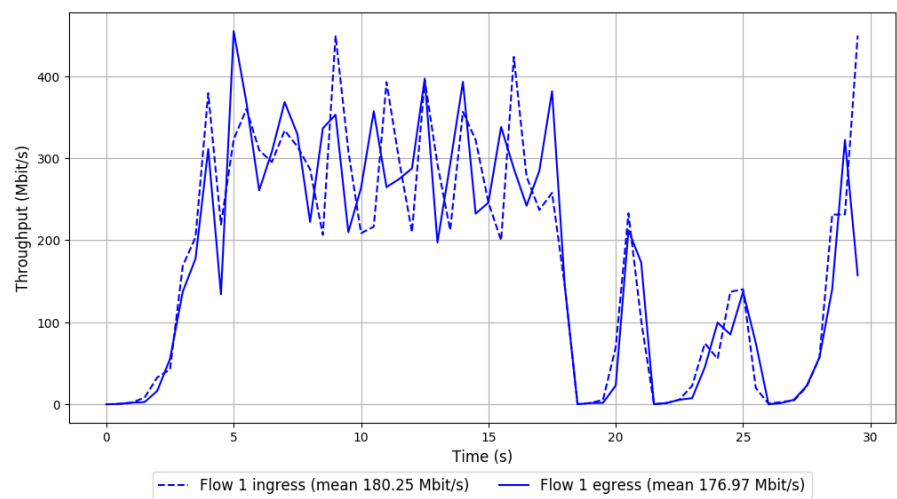
-- Flow 1:

Average throughput: 176.97 Mbit/s

95th percentile per-packet one-way delay: 194.044 ms

Loss rate: 2.71%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-09 07:10:31

End at: 2018-01-09 07:11:01

# Below is generated by plot.py at 2018-01-09 11:16:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 258.84 Mbit/s

95th percentile per-packet one-way delay: 333.892 ms

Loss rate: 9.79%

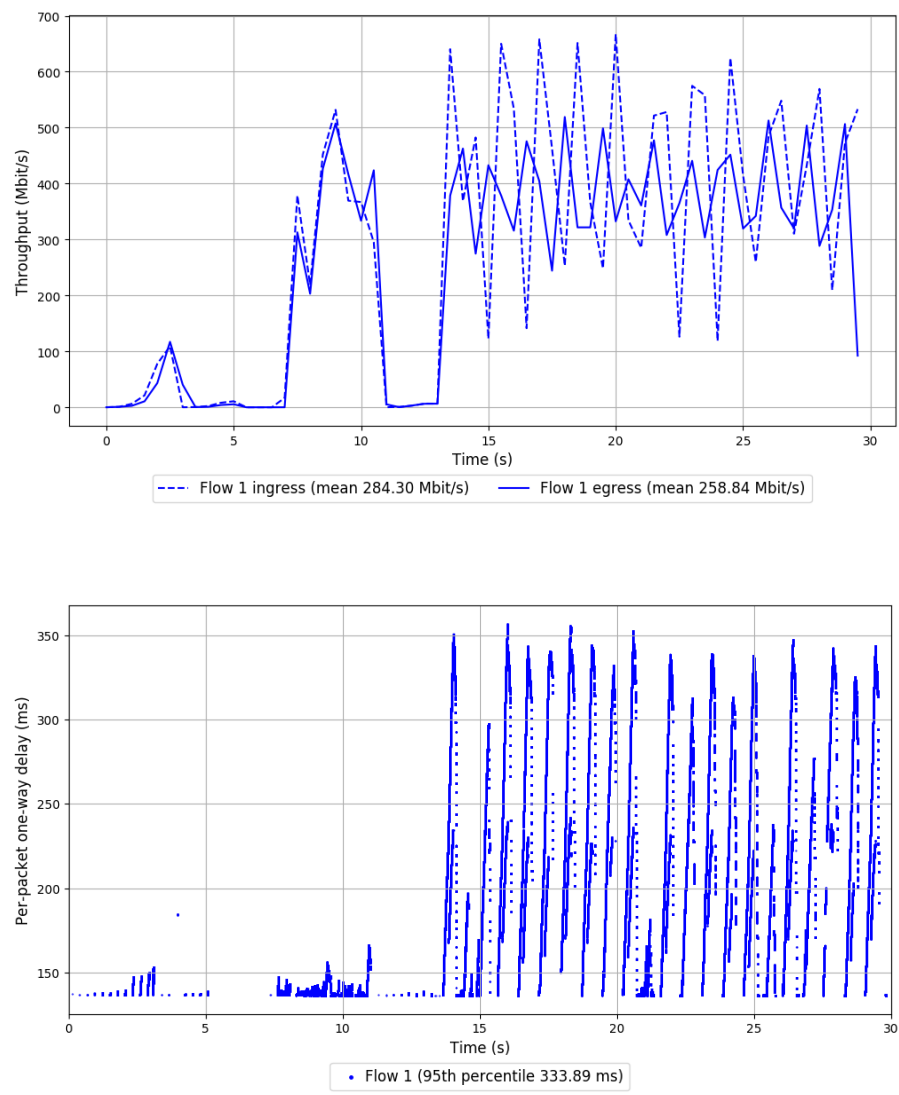
-- Flow 1:

Average throughput: 258.84 Mbit/s

95th percentile per-packet one-way delay: 333.892 ms

Loss rate: 9.79%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-09 07:23:17

End at: 2018-01-09 07:23:47

# Below is generated by plot.py at 2018-01-09 11:16:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 110.64 Mbit/s

95th percentile per-packet one-way delay: 189.247 ms

Loss rate: 1.38%

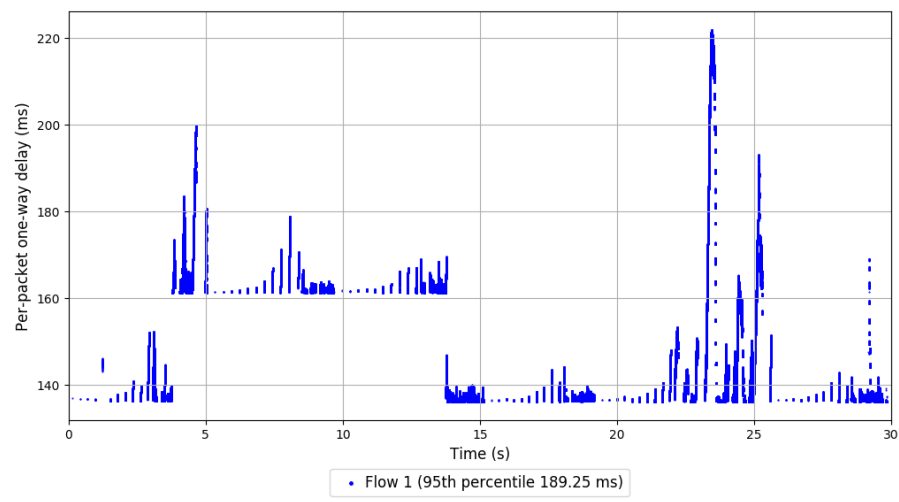
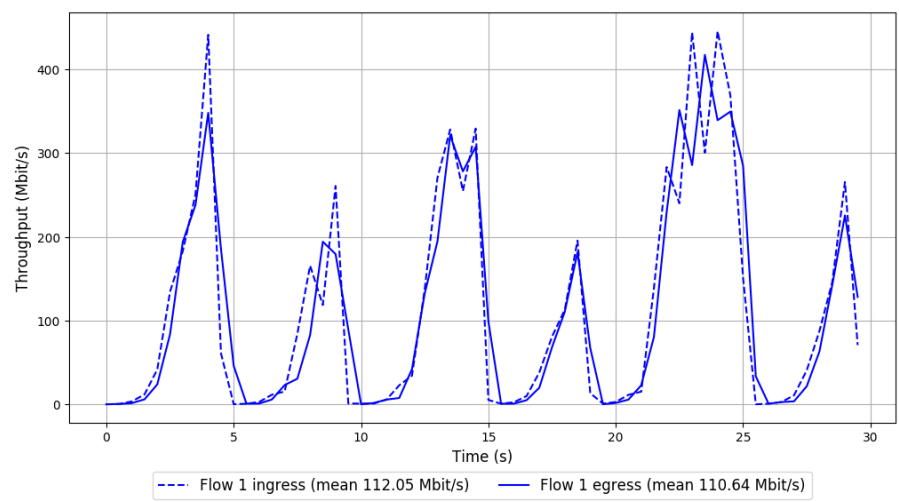
-- Flow 1:

Average throughput: 110.64 Mbit/s

95th percentile per-packet one-way delay: 189.247 ms

Loss rate: 1.38%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-09 07:35:37

End at: 2018-01-09 07:36:07

# Below is generated by plot.py at 2018-01-09 11:16:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 196.34 Mbit/s

95th percentile per-packet one-way delay: 344.173 ms

Loss rate: 4.27%

-- Flow 1:

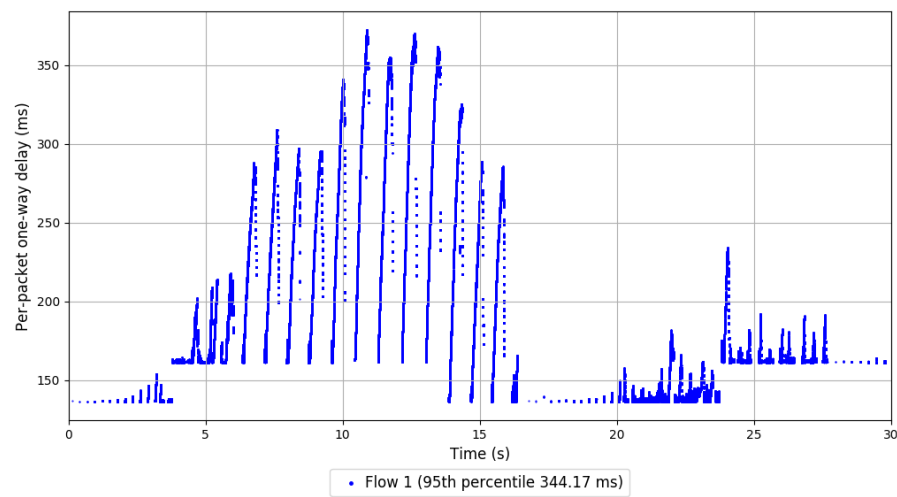
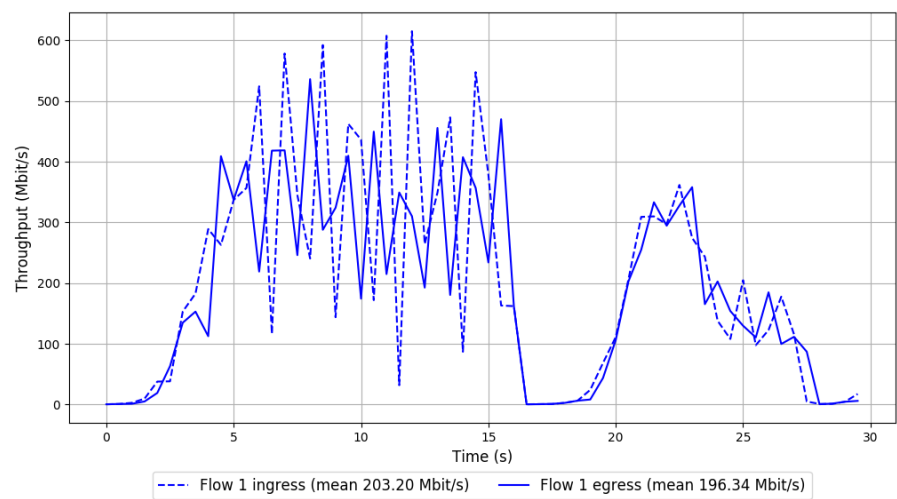
Average throughput: 196.34 Mbit/s

95th percentile per-packet one-way delay: 344.173 ms

Loss rate: 4.27%



Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-09 07:48:14

End at: 2018-01-09 07:48:44

# Below is generated by plot.py at 2018-01-09 11:17:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 232.97 Mbit/s

95th percentile per-packet one-way delay: 154.953 ms

Loss rate: 1.37%

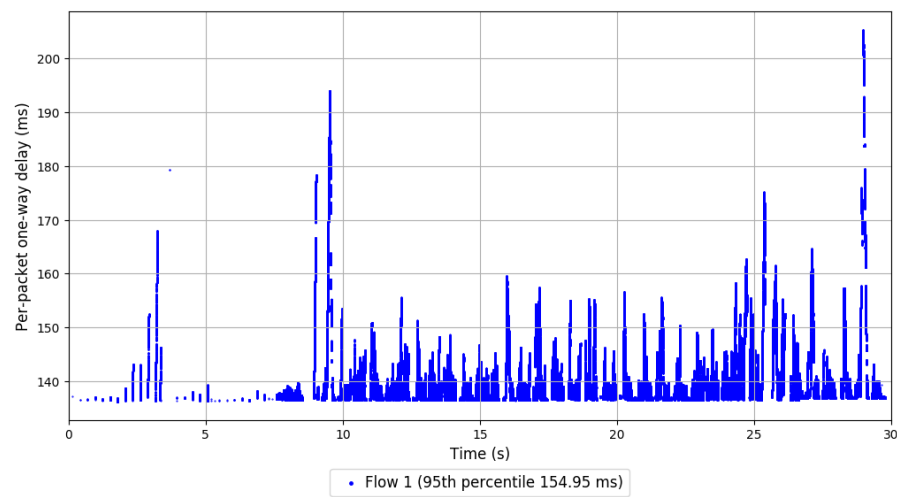
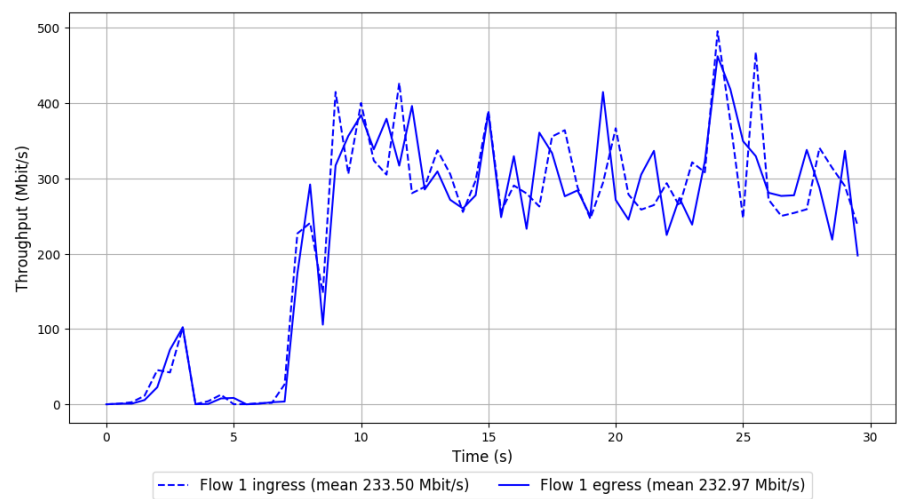
-- Flow 1:

Average throughput: 232.97 Mbit/s

95th percentile per-packet one-way delay: 154.953 ms

Loss rate: 1.37%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

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

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

# Below is generated by plot.py at 2018-01-09 11:17:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 216.57 Mbit/s

95th percentile per-packet one-way delay: 241.412 ms

Loss rate: 2.89%

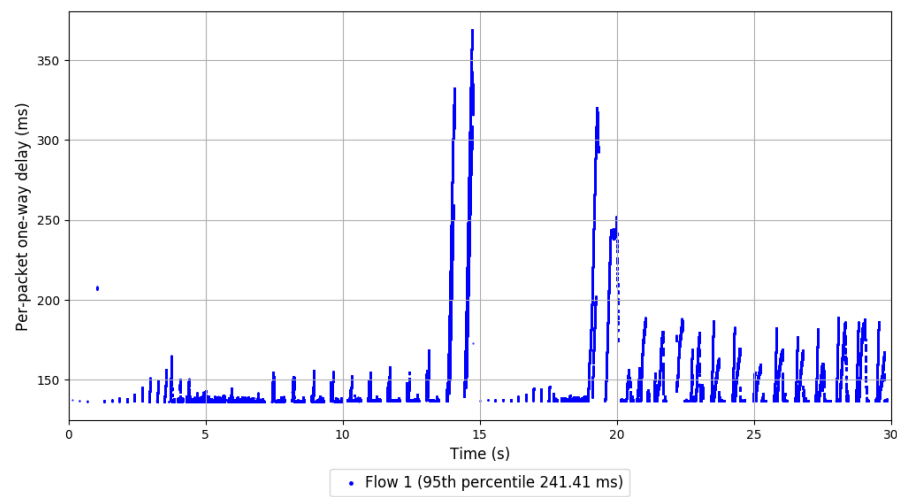
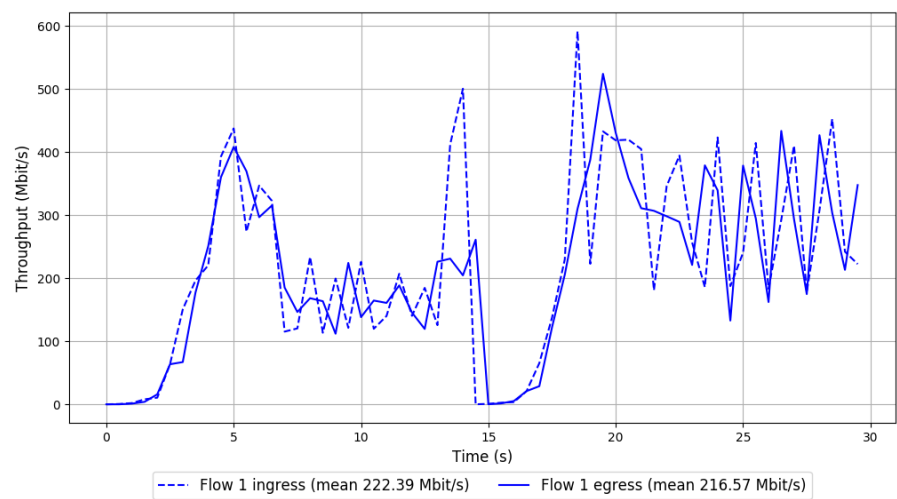
-- Flow 1:

Average throughput: 216.57 Mbit/s

95th percentile per-packet one-way delay: 241.412 ms

Loss rate: 2.89%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-09 08:14:05

End at: 2018-01-09 08:14:35

# Below is generated by plot.py at 2018-01-09 11:17:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 165.03 Mbit/s

95th percentile per-packet one-way delay: 239.549 ms

Loss rate: 1.59%

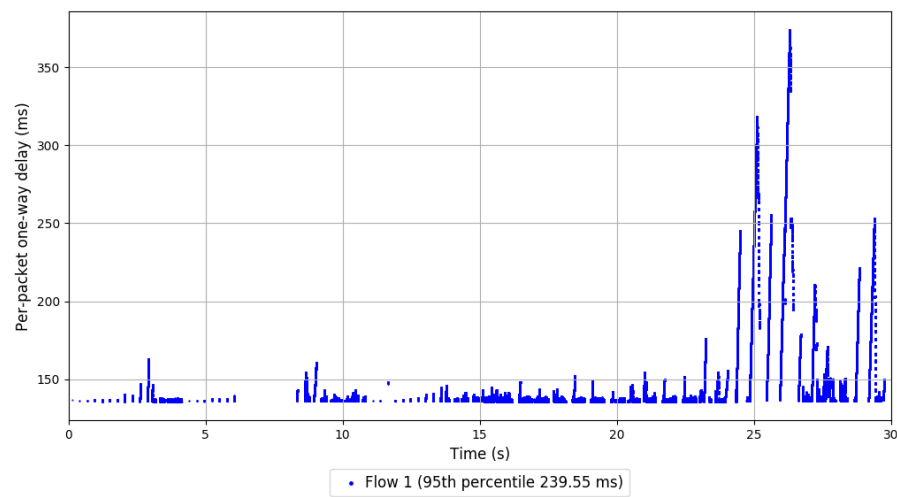
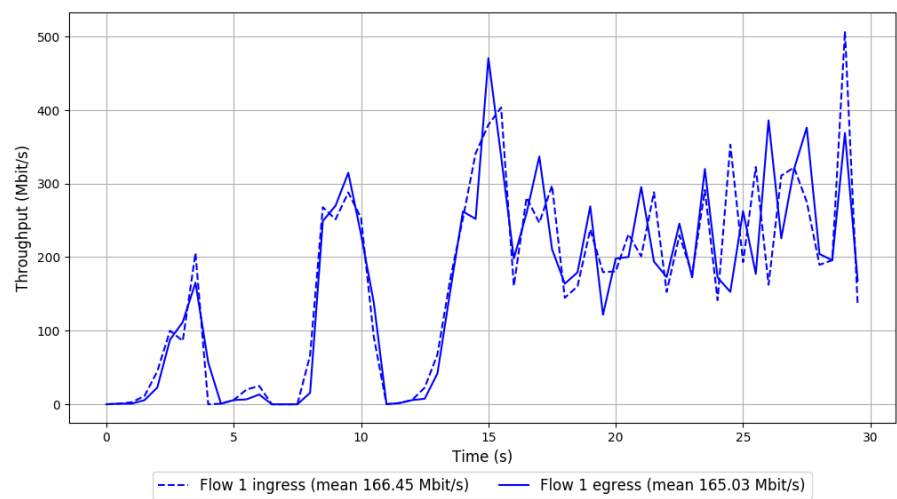
-- Flow 1:

Average throughput: 165.03 Mbit/s

95th percentile per-packet one-way delay: 239.549 ms

Loss rate: 1.59%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-09 08:26:55

End at: 2018-01-09 08:27:25

# Below is generated by plot.py at 2018-01-09 11:18:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 225.45 Mbit/s

95th percentile per-packet one-way delay: 234.018 ms

Loss rate: 3.78%

-- Flow 1:

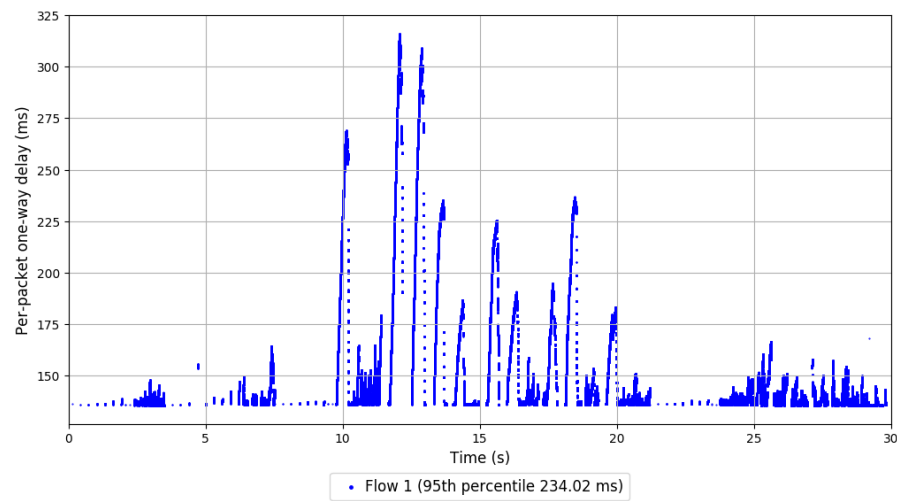
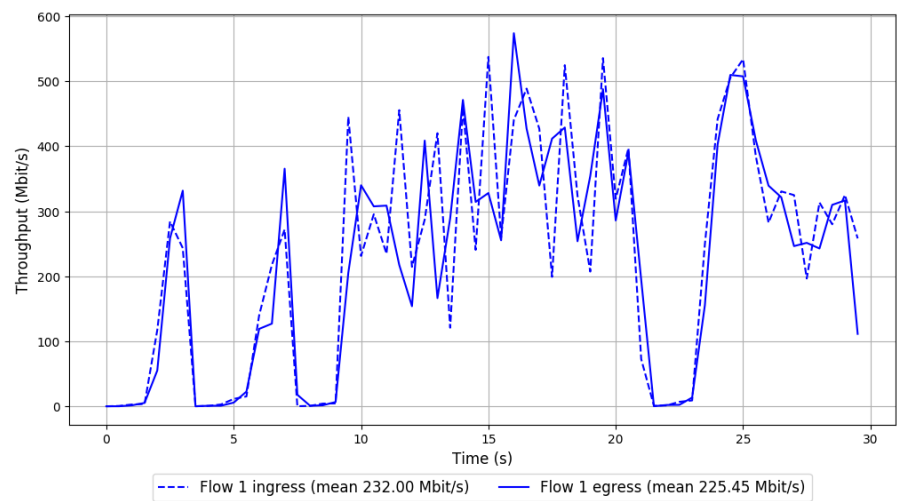
Average throughput: 225.45 Mbit/s

95th percentile per-packet one-way delay: 234.018 ms

Loss rate: 3.78%



Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-09 08:40:11

End at: 2018-01-09 08:40:41

# Below is generated by plot.py at 2018-01-09 11:18:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 176.09 Mbit/s

95th percentile per-packet one-way delay: 255.406 ms

Loss rate: 3.21%

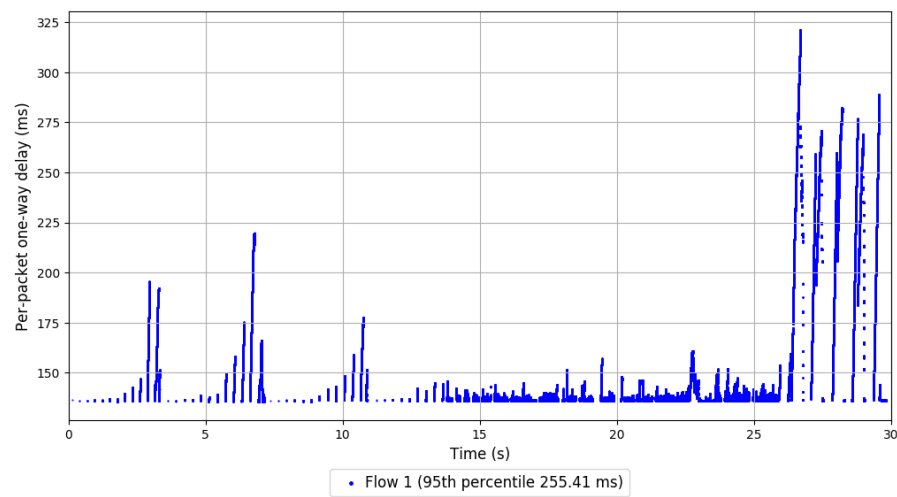
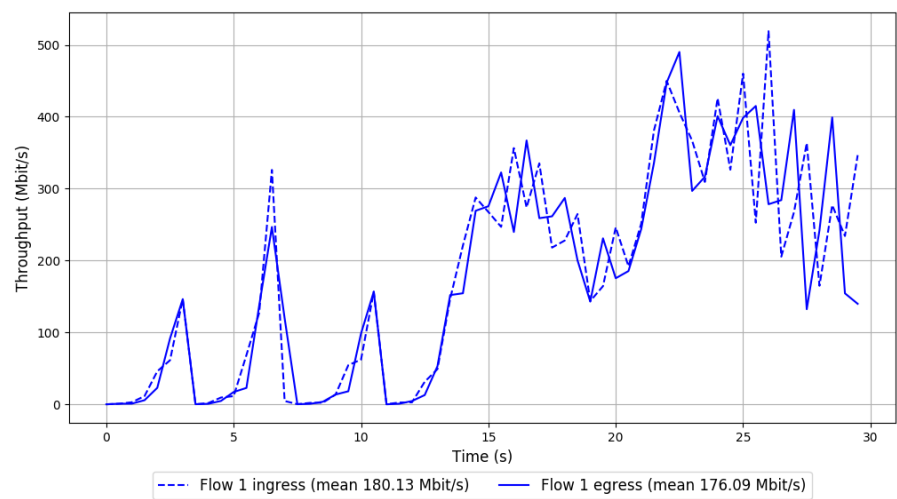
-- Flow 1:

Average throughput: 176.09 Mbit/s

95th percentile per-packet one-way delay: 255.406 ms

Loss rate: 3.21%

Run 10: Report of Verus — Data Link

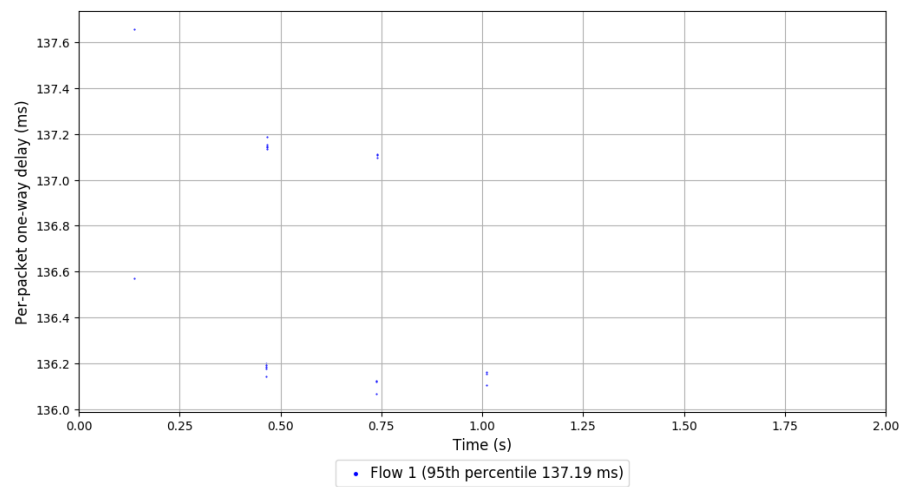
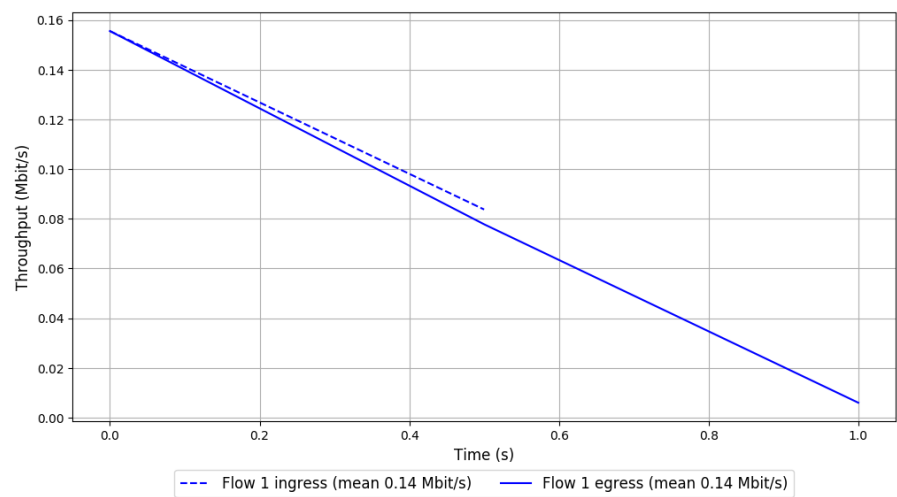


Run 1: Statistics of Copa

Start at: 2018-01-09 06:47:23

End at: 2018-01-09 06:47:53

Run 1: Report of Copa — Data Link

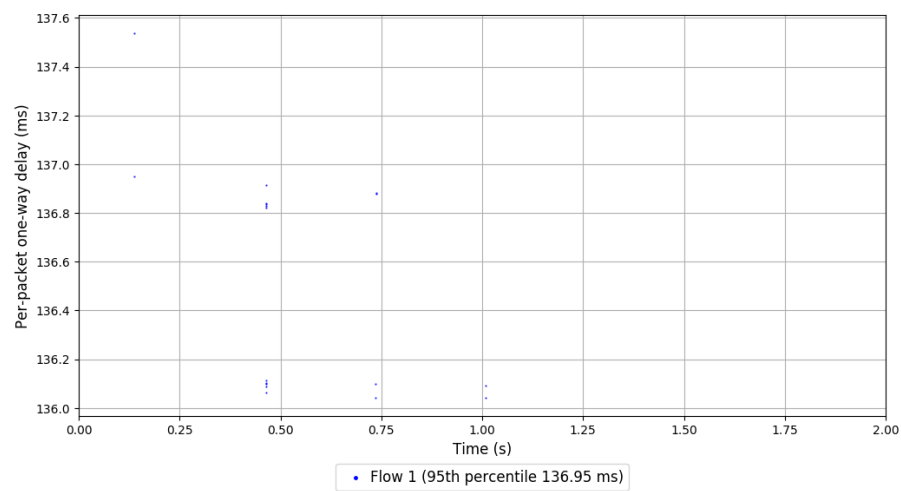
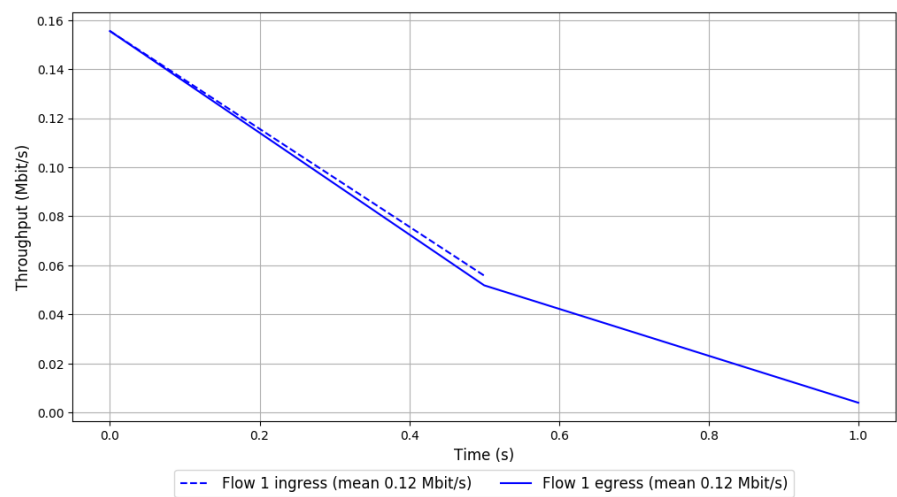


Run 2: Statistics of Copa

Start at: 2018-01-09 07:00:13

End at: 2018-01-09 07:00:43

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-09 07:13:04

End at: 2018-01-09 07:13:34

# Below is generated by plot.py at 2018-01-09 11:18:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 63.22 Mbit/s

95th percentile per-packet one-way delay: 161.855 ms

Loss rate: 1.04%

-- Flow 1:

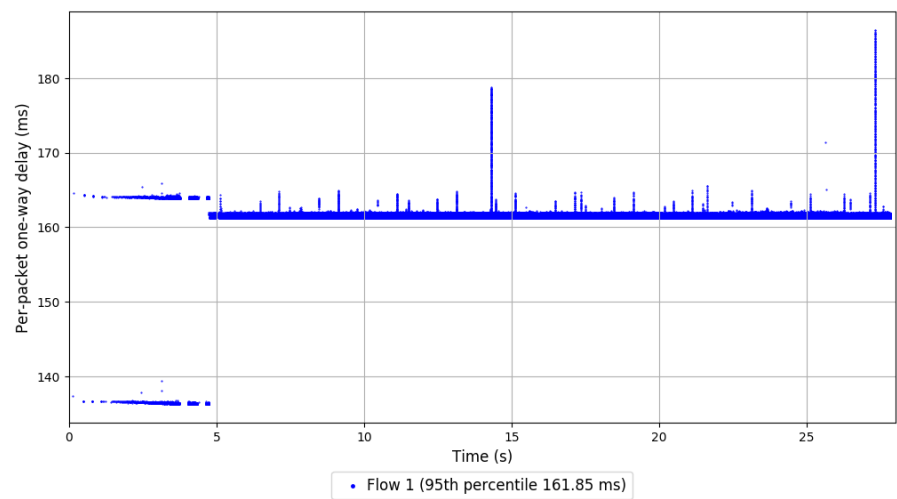
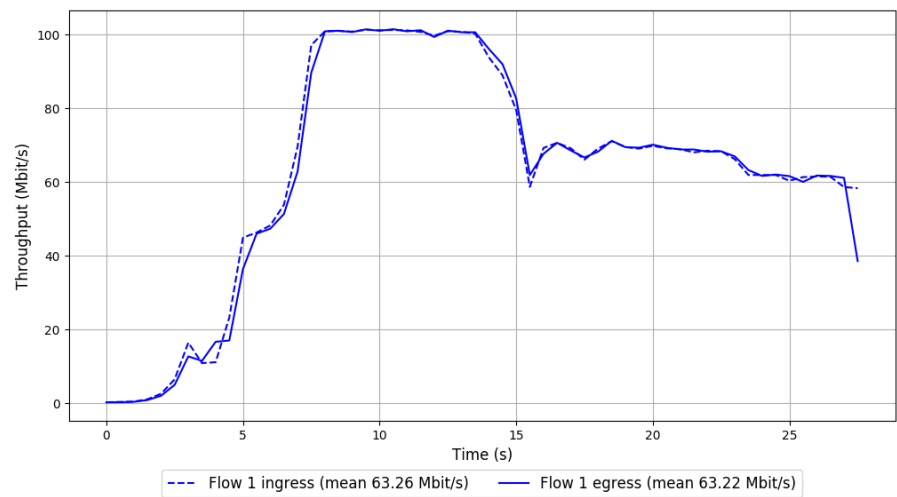
Average throughput: 63.22 Mbit/s

95th percentile per-packet one-way delay: 161.855 ms

Loss rate: 1.04%



Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-09 07:25:35

End at: 2018-01-09 07:26:05

# Below is generated by plot.py at 2018-01-09 11:18:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.54 Mbit/s

95th percentile per-packet one-way delay: 136.439 ms

Loss rate: 1.06%

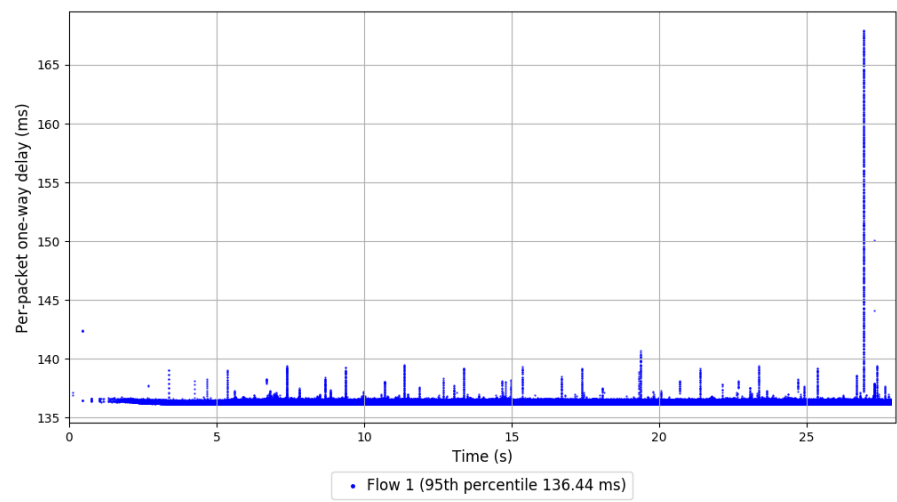
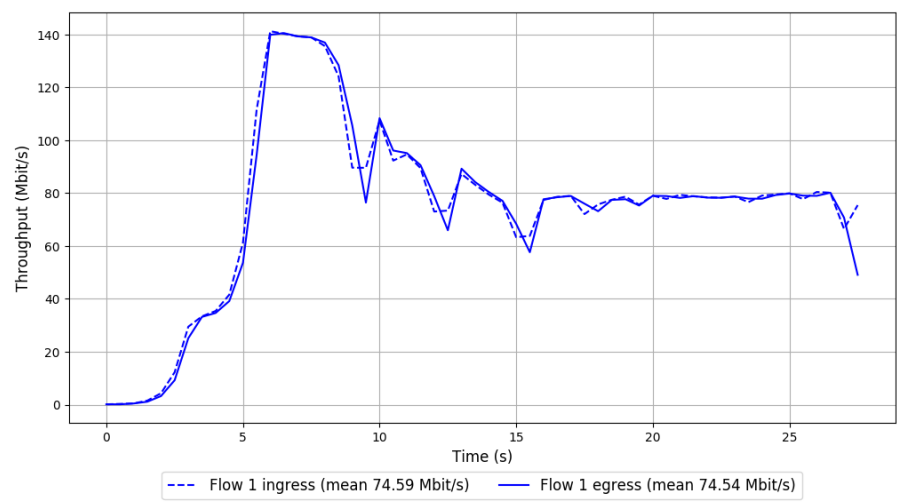
-- Flow 1:

Average throughput: 74.54 Mbit/s

95th percentile per-packet one-way delay: 136.439 ms

Loss rate: 1.06%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-09 07:38:02

End at: 2018-01-09 07:38:32

# Below is generated by plot.py at 2018-01-09 11:18:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 45.89 Mbit/s

95th percentile per-packet one-way delay: 161.105 ms

Loss rate: 0.00%

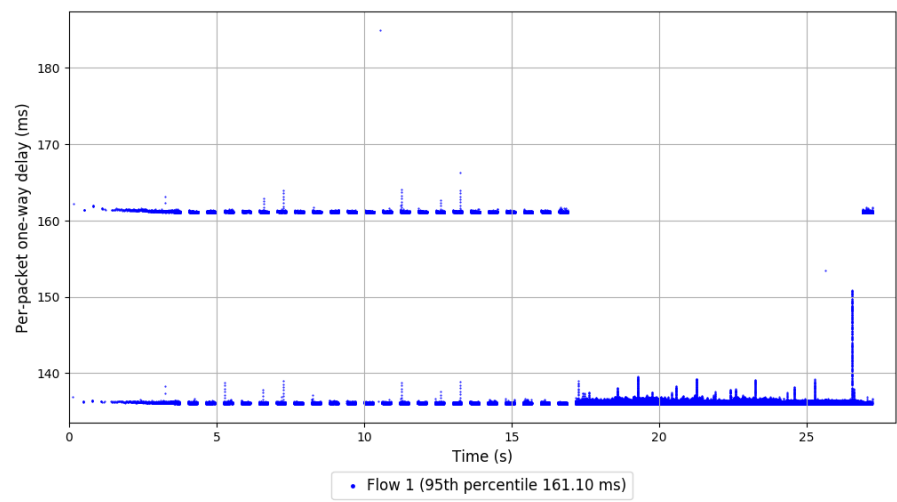
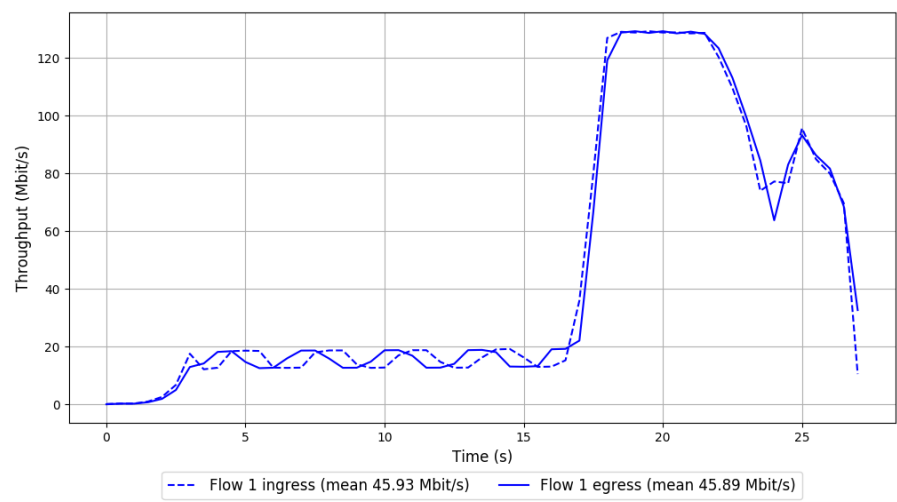
-- Flow 1:

Average throughput: 45.89 Mbit/s

95th percentile per-packet one-way delay: 161.105 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-09 07:50:44

End at: 2018-01-09 07:51:14

# Below is generated by plot.py at 2018-01-09 11:18:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 67.77 Mbit/s

95th percentile per-packet one-way delay: 136.305 ms

Loss rate: 0.97%

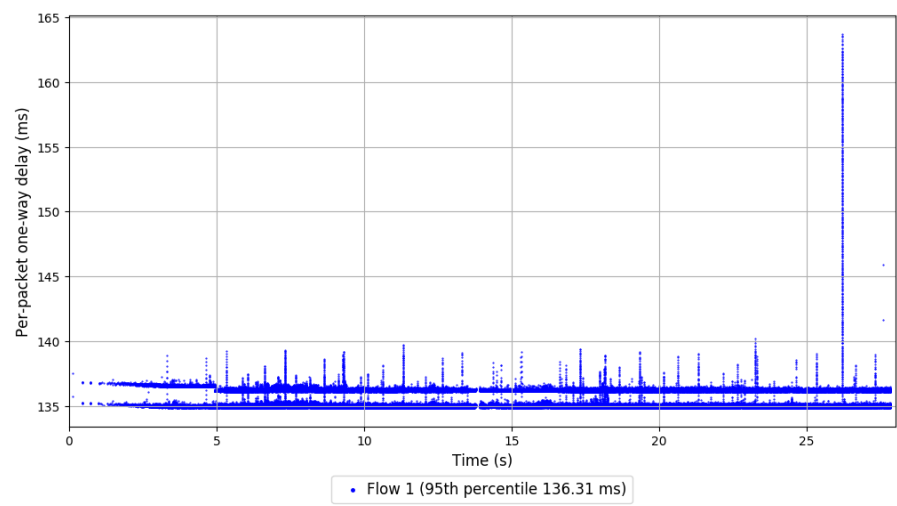
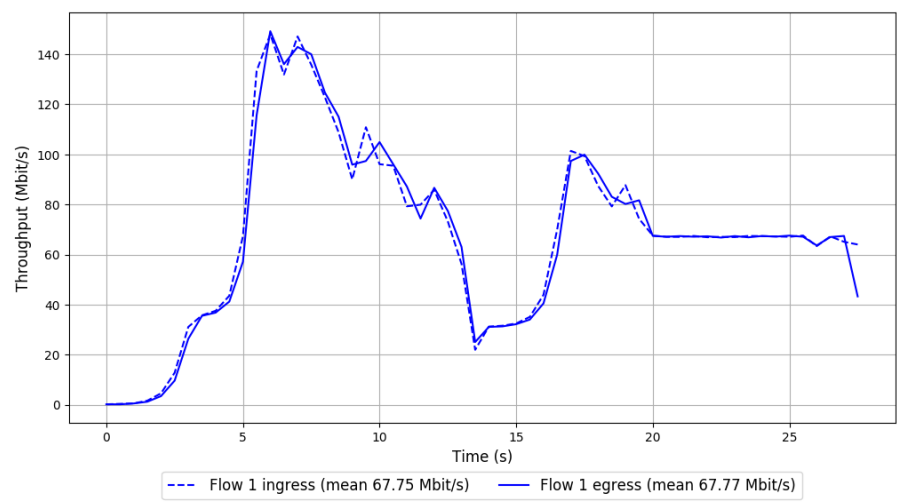
-- Flow 1:

Average throughput: 67.77 Mbit/s

95th percentile per-packet one-way delay: 136.305 ms

Loss rate: 0.97%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-09 08:03:47

End at: 2018-01-09 08:04:17

# Below is generated by plot.py at 2018-01-09 11:18:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 71.73 Mbit/s

95th percentile per-packet one-way delay: 136.562 ms

Loss rate: 1.03%

-- Flow 1:

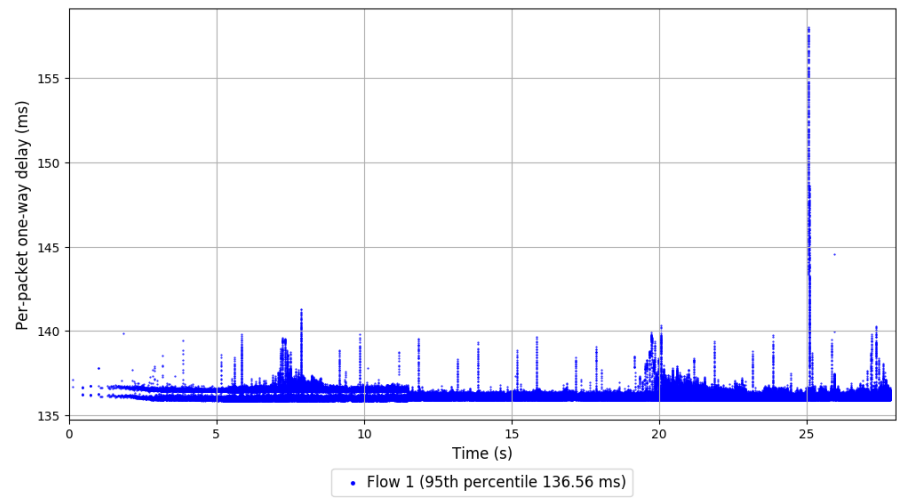
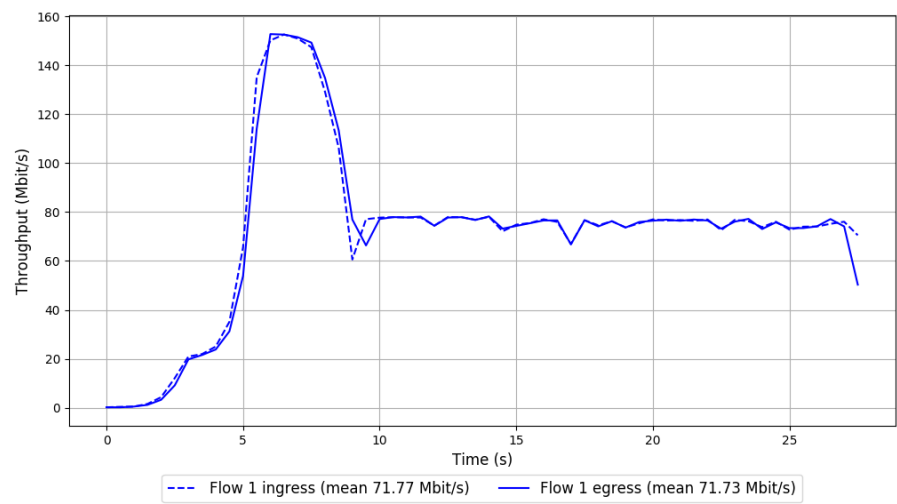
Average throughput: 71.73 Mbit/s

95th percentile per-packet one-way delay: 136.562 ms

Loss rate: 1.03%



Run 7: Report of Copa — Data Link

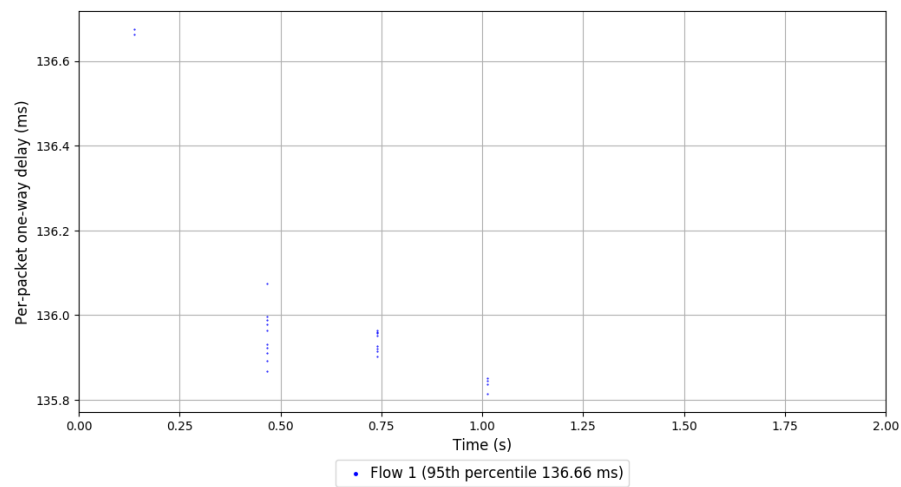
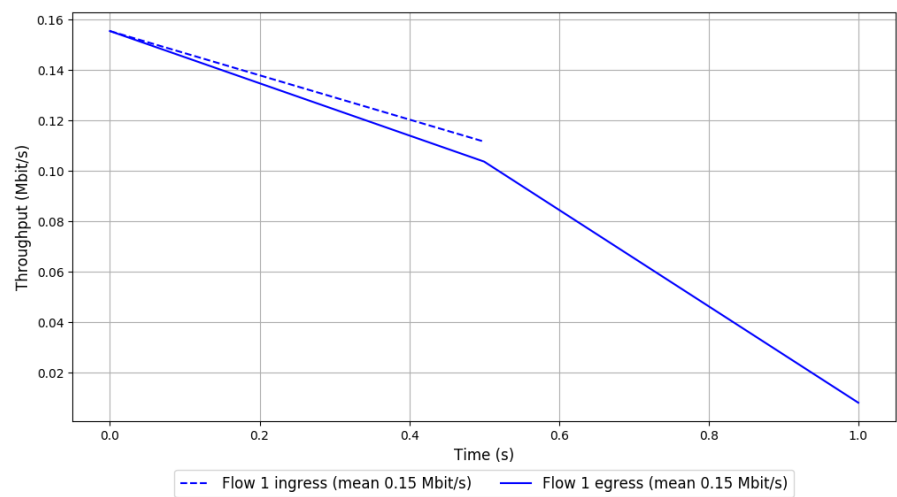


Run 8: Statistics of Copa

Start at: 2018-01-09 08:16:31

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

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-09 08:29:28

End at: 2018-01-09 08:29:58

# Below is generated by plot.py at 2018-01-09 11:18:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 65.75 Mbit/s

95th percentile per-packet one-way delay: 136.082 ms

Loss rate: 0.04%

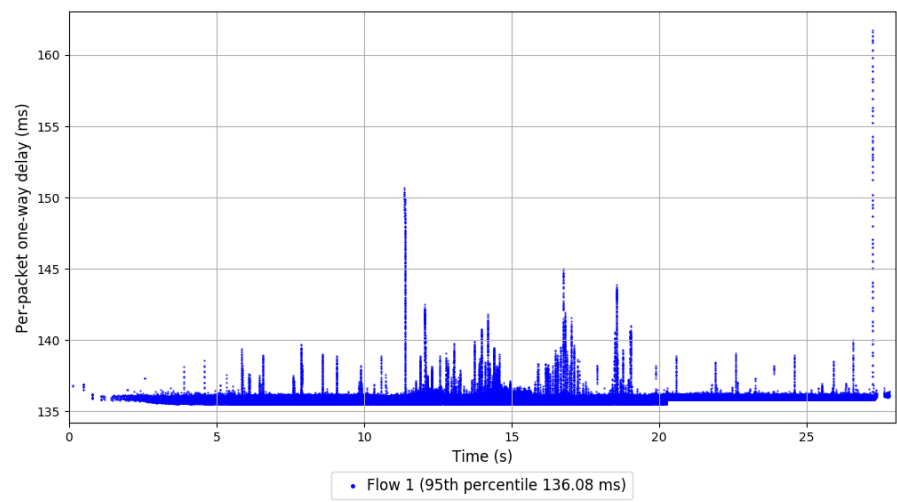
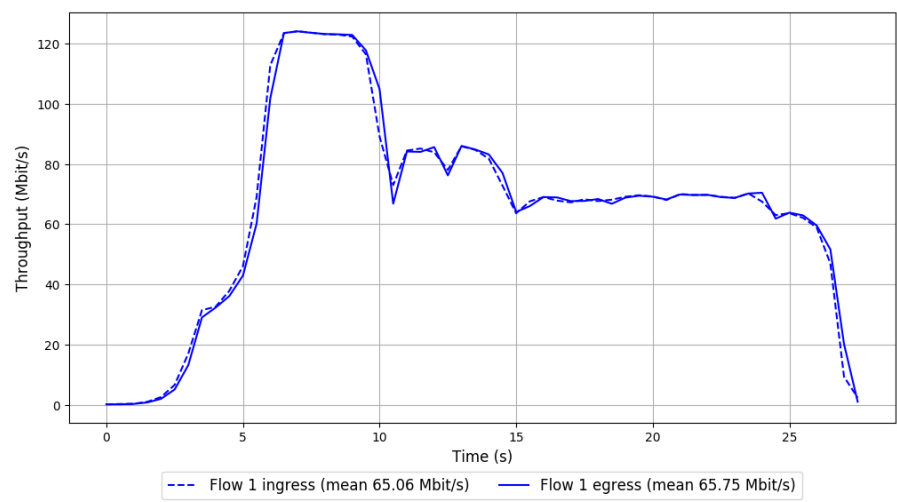
-- Flow 1:

Average throughput: 65.75 Mbit/s

95th percentile per-packet one-way delay: 136.082 ms

Loss rate: 0.04%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-09 08:42:37

End at: 2018-01-09 08:43:07

# Below is generated by plot.py at 2018-01-09 11:18:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.77 Mbit/s

95th percentile per-packet one-way delay: 163.761 ms

Loss rate: 0.31%

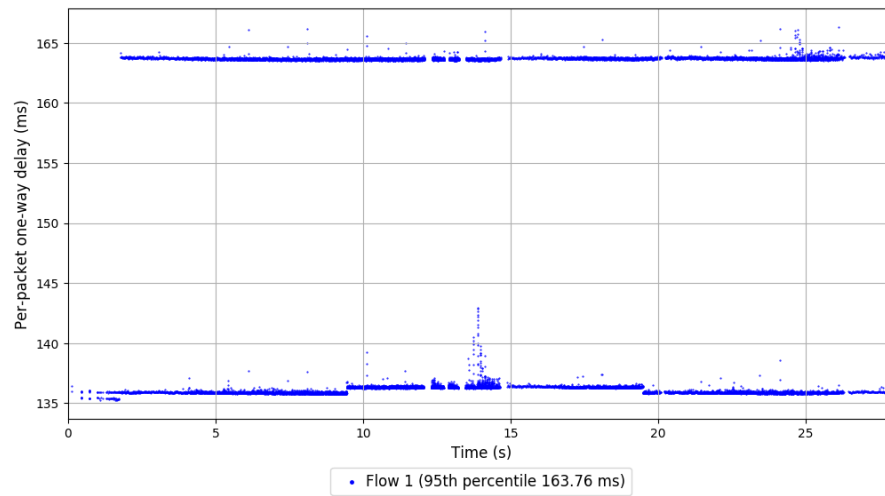
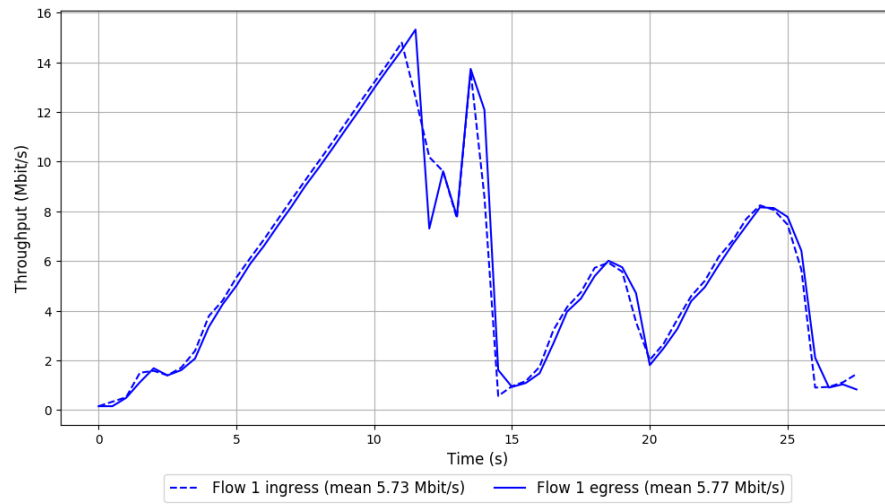
-- Flow 1:

Average throughput: 5.77 Mbit/s

95th percentile per-packet one-way delay: 163.761 ms

Loss rate: 0.31%

# Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-01-09 06:43:34

End at: 2018-01-09 06:44:04

# Below is generated by plot.py at 2018-01-09 11:32:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 905.03 Mbit/s

95th percentile per-packet one-way delay: 203.539 ms

Loss rate: 2.77%

-- Flow 1:

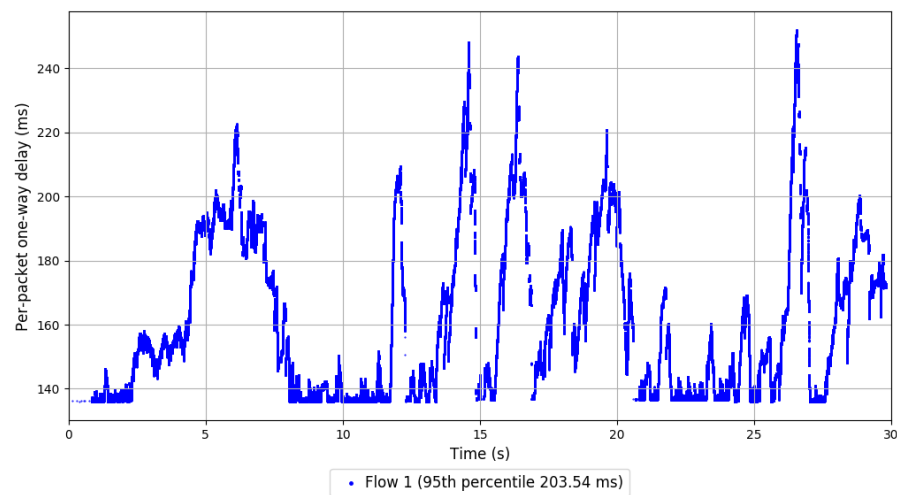
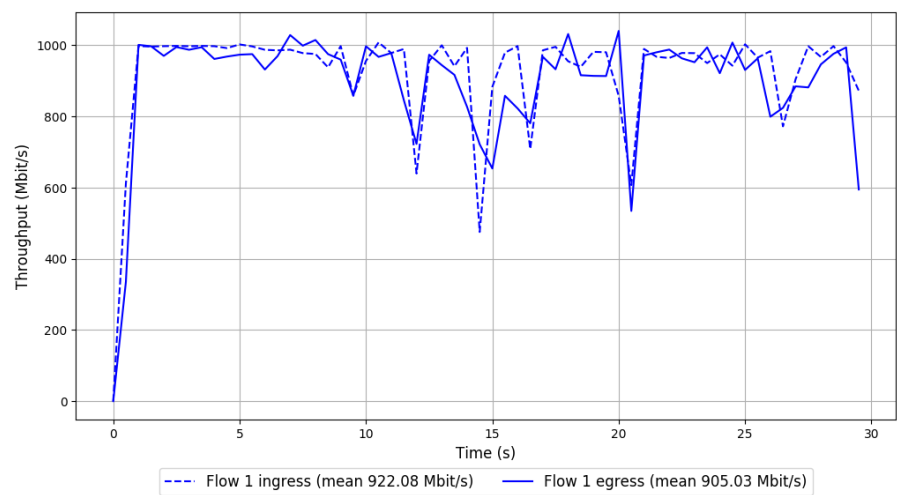
Average throughput: 905.03 Mbit/s

95th percentile per-packet one-way delay: 203.539 ms

Loss rate: 2.77%



Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-01-09 06:56:25

End at: 2018-01-09 06:56:55

# Below is generated by plot.py at 2018-01-09 11:32:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 888.66 Mbit/s

95th percentile per-packet one-way delay: 202.281 ms

Loss rate: 2.28%

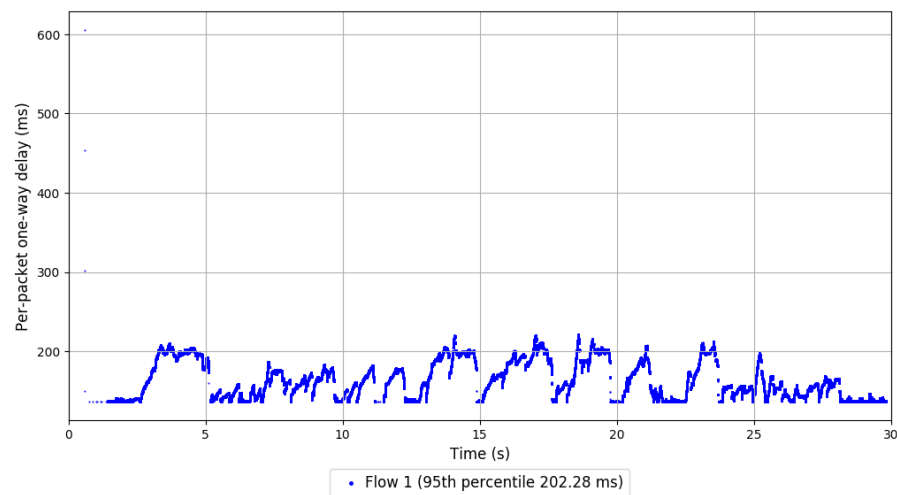
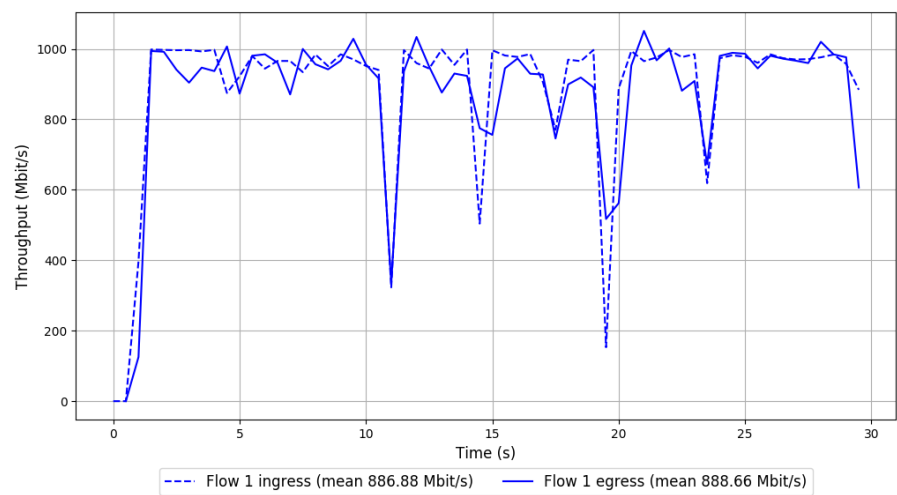
-- Flow 1:

Average throughput: 888.66 Mbit/s

95th percentile per-packet one-way delay: 202.281 ms

Loss rate: 2.28%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-09 07:09:08

End at: 2018-01-09 07:09:38

# Below is generated by plot.py at 2018-01-09 11:32:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 838.37 Mbit/s

95th percentile per-packet one-way delay: 186.679 ms

Loss rate: 2.28%

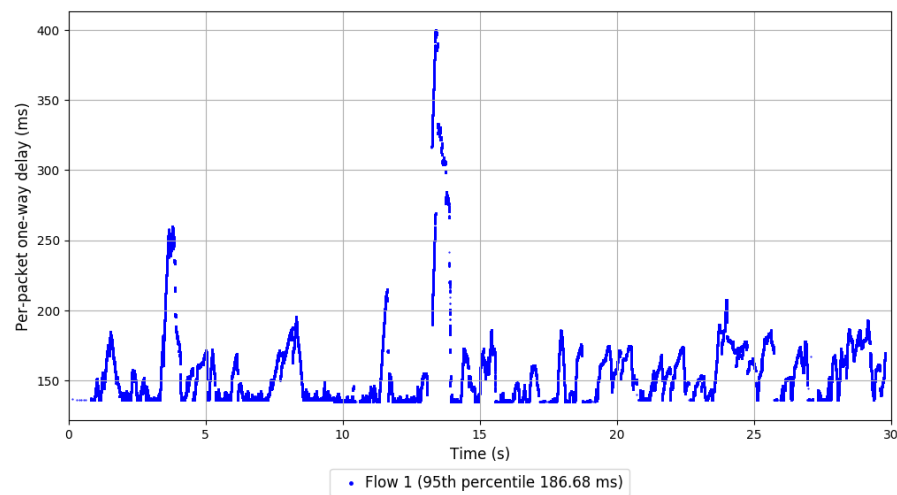
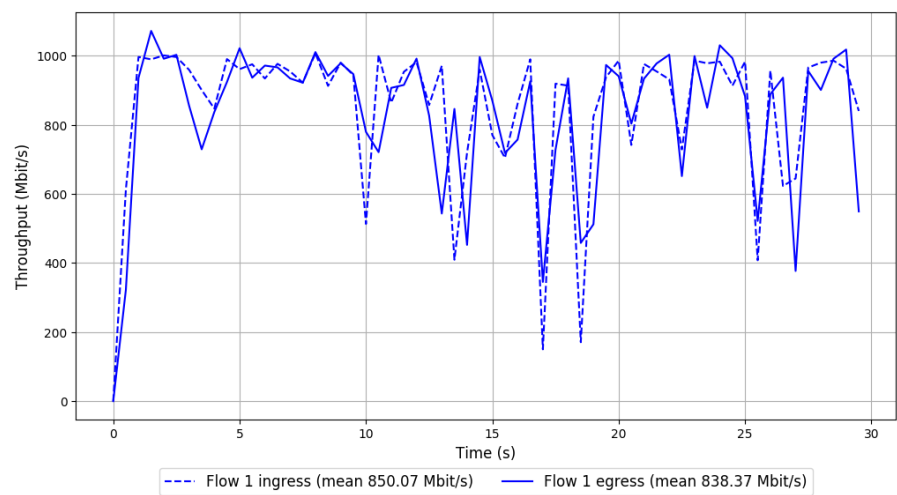
-- Flow 1:

Average throughput: 838.37 Mbit/s

95th percentile per-packet one-way delay: 186.679 ms

Loss rate: 2.28%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-09 07:21:52

End at: 2018-01-09 07:22:22

# Below is generated by plot.py at 2018-01-09 11:33:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 914.77 Mbit/s

95th percentile per-packet one-way delay: 223.030 ms

Loss rate: 1.94%

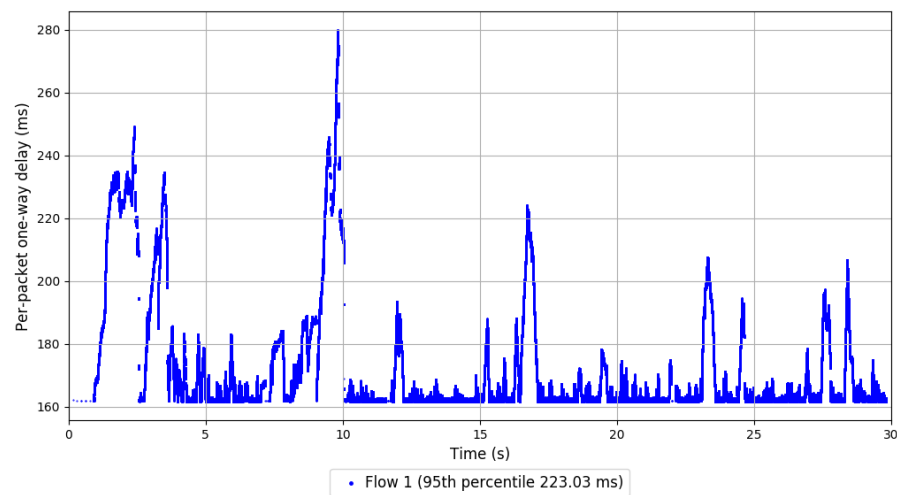
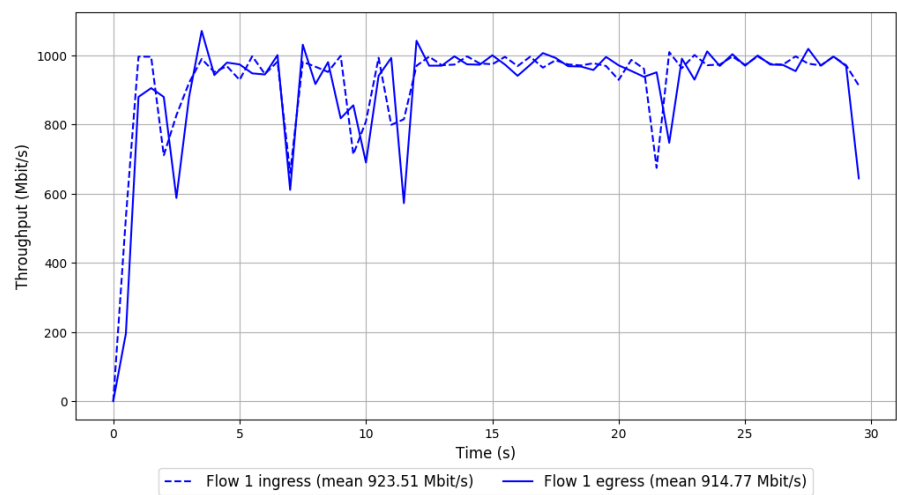
-- Flow 1:

Average throughput: 914.77 Mbit/s

95th percentile per-packet one-way delay: 223.030 ms

Loss rate: 1.94%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-09 07:34:12

End at: 2018-01-09 07:34:42

# Below is generated by plot.py at 2018-01-09 11:33:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 914.16 Mbit/s

95th percentile per-packet one-way delay: 223.479 ms

Loss rate: 1.90%

-- Flow 1:

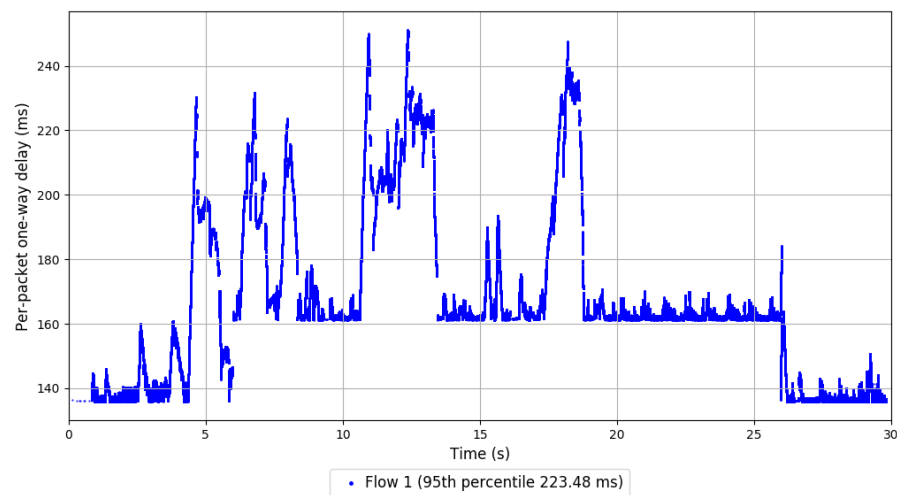
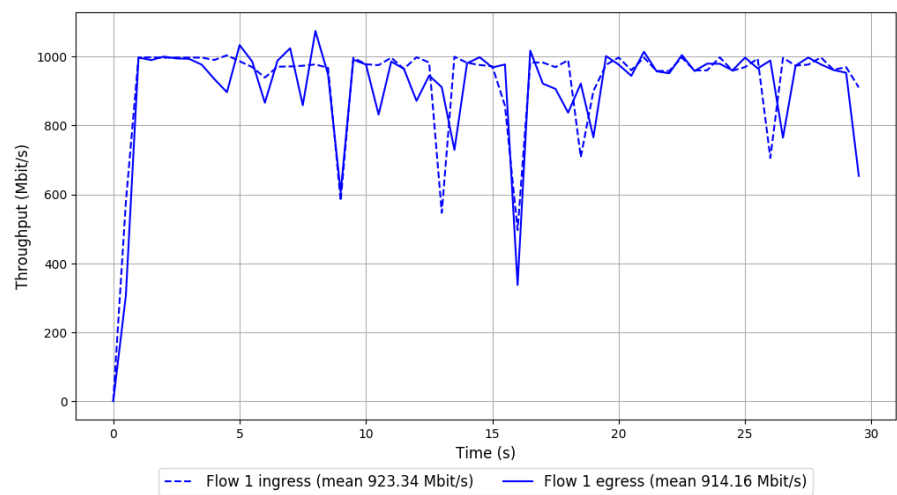
Average throughput: 914.16 Mbit/s

95th percentile per-packet one-way delay: 223.479 ms

Loss rate: 1.90%



Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-09 07:46:47

End at: 2018-01-09 07:47:17

# Below is generated by plot.py at 2018-01-09 11:35:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 973.69 Mbit/s

95th percentile per-packet one-way delay: 158.717 ms

Loss rate: 0.93%

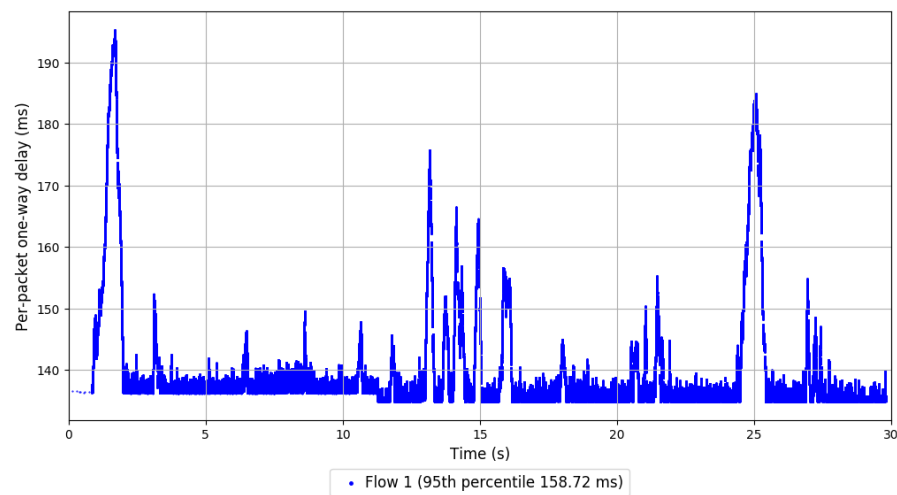
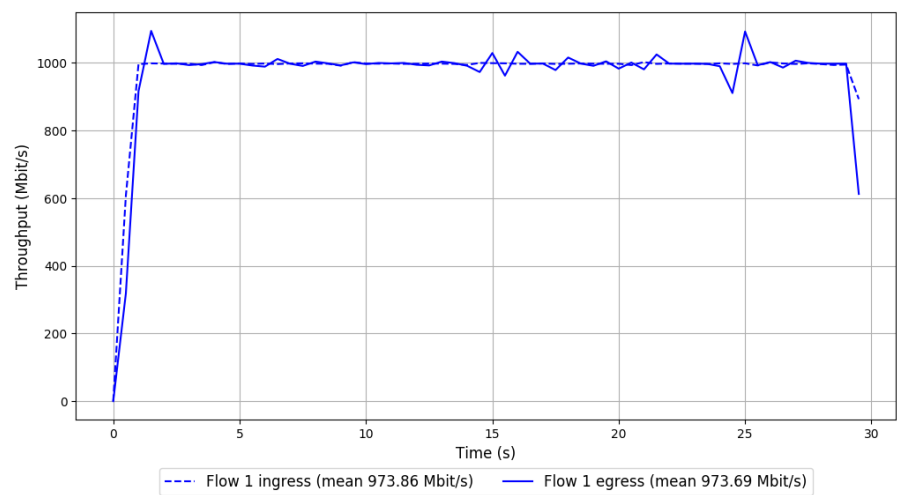
-- Flow 1:

Average throughput: 973.69 Mbit/s

95th percentile per-packet one-way delay: 158.717 ms

Loss rate: 0.93%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-09 07:59:57

End at: 2018-01-09 08:00:27

# Below is generated by plot.py at 2018-01-09 11:35:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 871.10 Mbit/s

95th percentile per-packet one-way delay: 149.145 ms

Loss rate: 1.10%

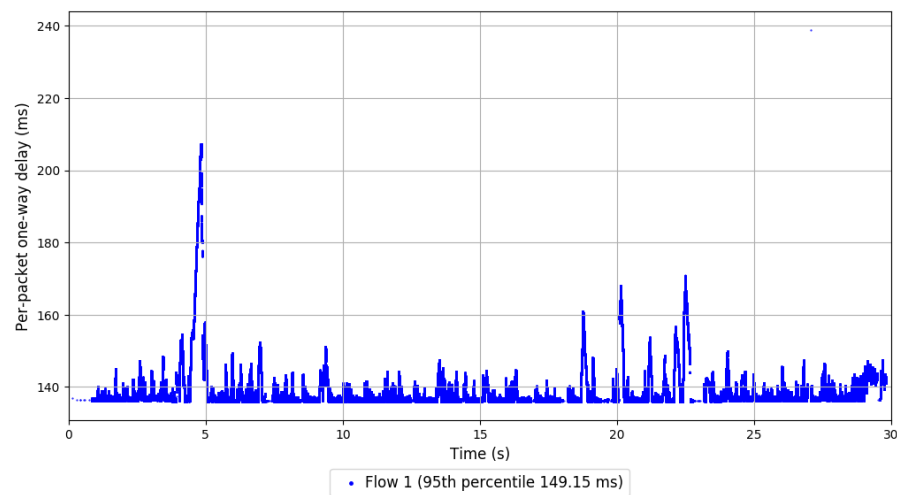
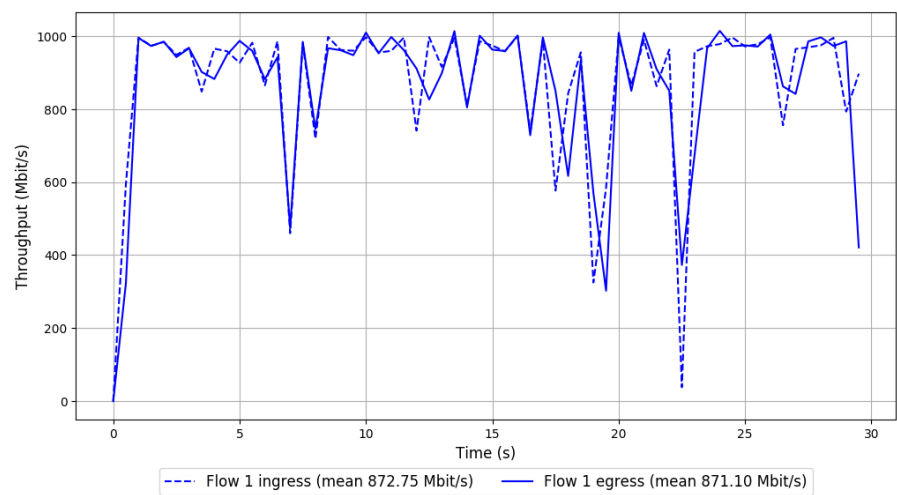
-- Flow 1:

Average throughput: 871.10 Mbit/s

95th percentile per-packet one-way delay: 149.145 ms

Loss rate: 1.10%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-09 08:12:41

End at: 2018-01-09 08:13:11

# Below is generated by plot.py at 2018-01-09 11:35:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 887.97 Mbit/s

95th percentile per-packet one-way delay: 202.031 ms

Loss rate: 1.32%

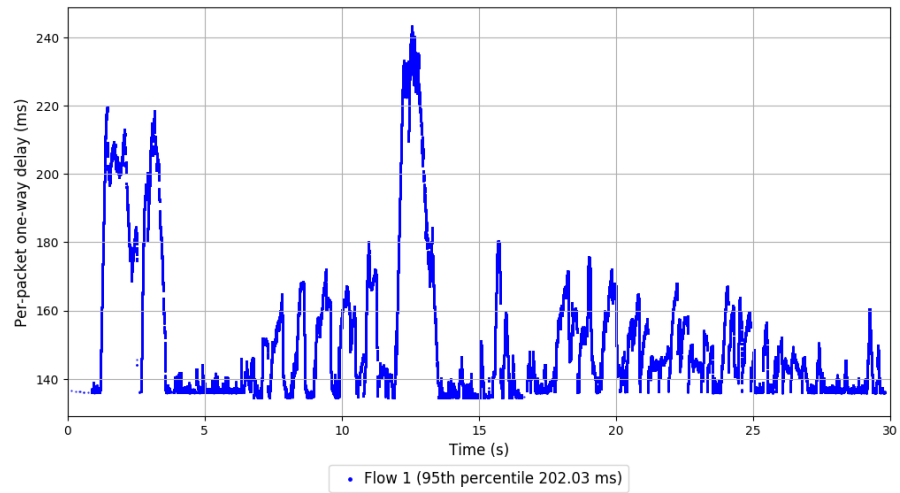
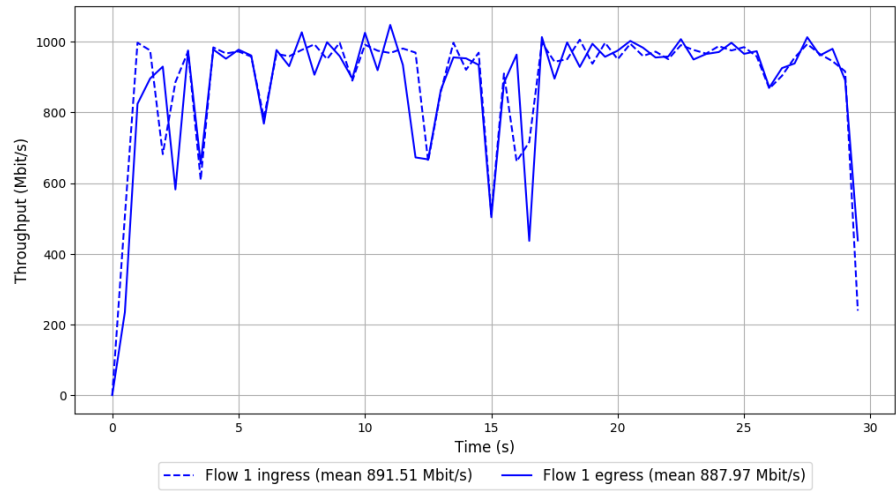
-- Flow 1:

Average throughput: 887.97 Mbit/s

95th percentile per-packet one-way delay: 202.031 ms

Loss rate: 1.32%

## Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-09 08:25:36

End at: 2018-01-09 08:26:06

# Below is generated by plot.py at 2018-01-09 11:38:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 771.97 Mbit/s

95th percentile per-packet one-way delay: 194.136 ms

Loss rate: 0.01%

-- Flow 1:

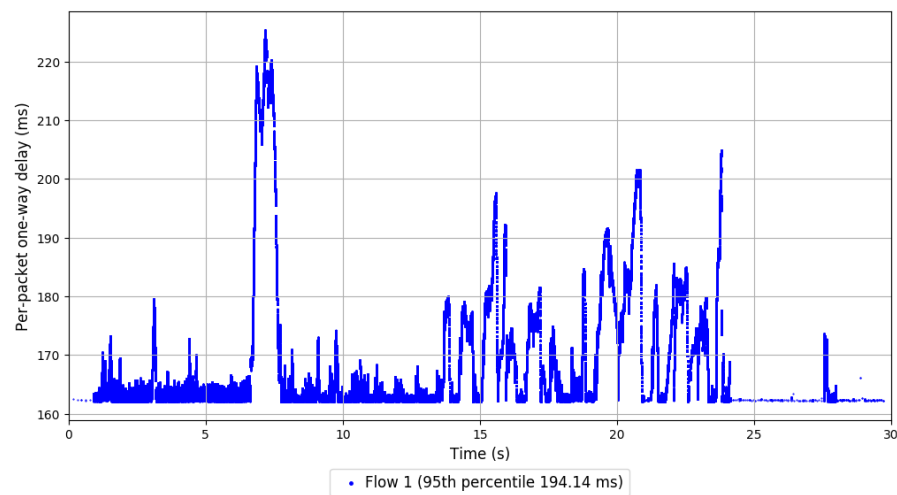
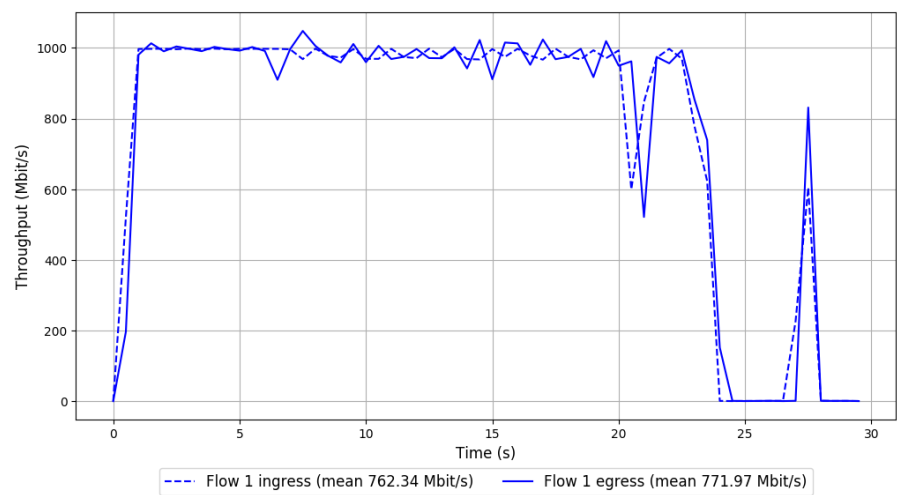
Average throughput: 771.97 Mbit/s

95th percentile per-packet one-way delay: 194.136 ms

Loss rate: 0.01%



Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-09 08:38:51

End at: 2018-01-09 08:39:21

# Below is generated by plot.py at 2018-01-09 11:38:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 768.31 Mbit/s

95th percentile per-packet one-way delay: 229.250 ms

Loss rate: 3.40%

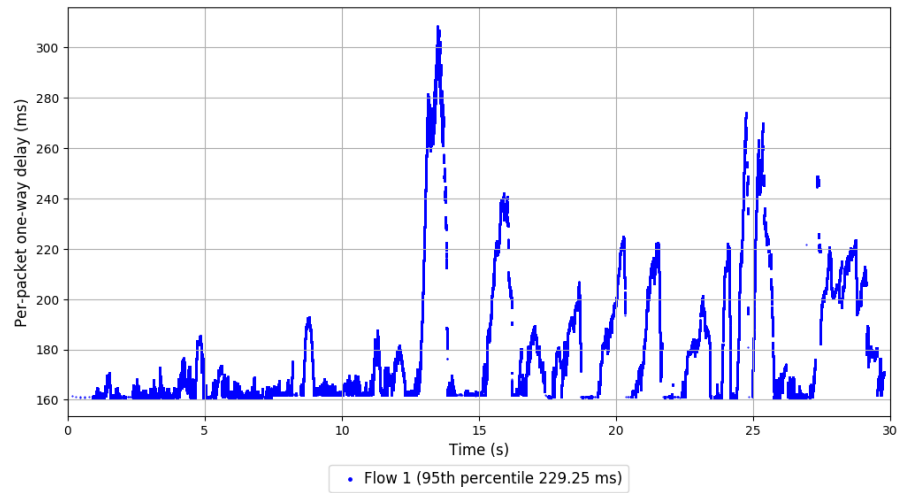
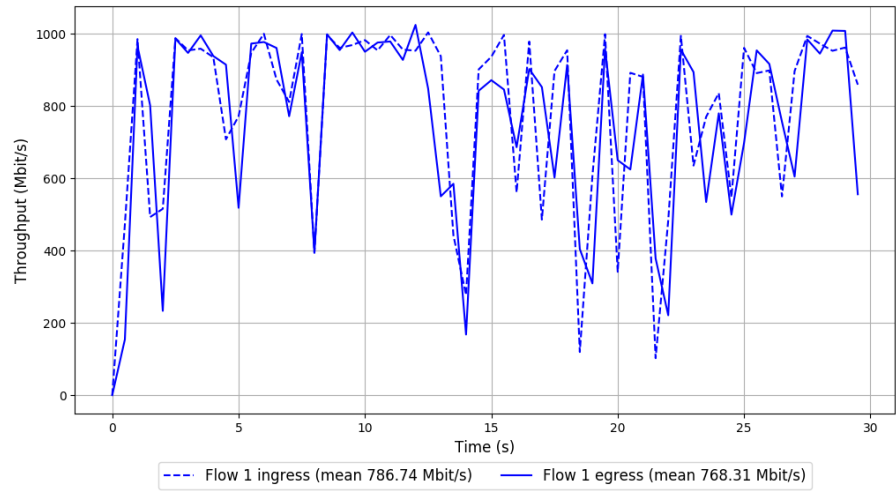
-- Flow 1:

Average throughput: 768.31 Mbit/s

95th percentile per-packet one-way delay: 229.250 ms

Loss rate: 3.40%

# Run 10: Report of FillP — Data Link

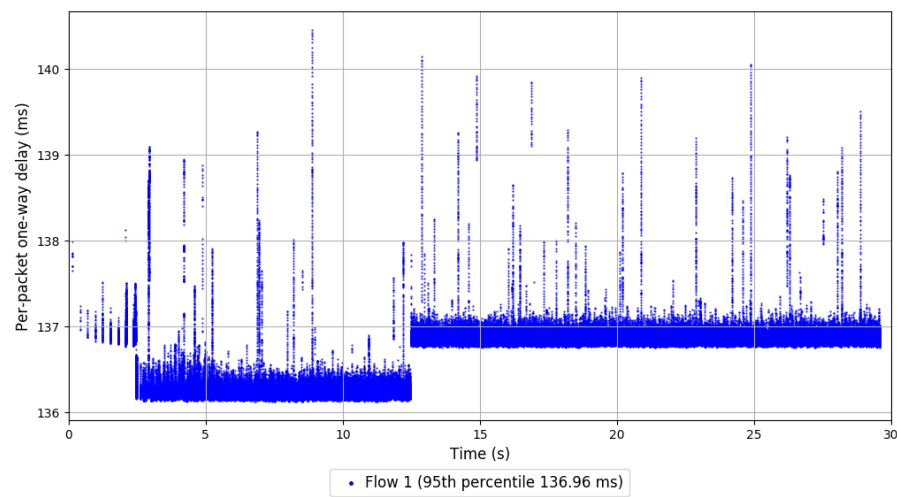
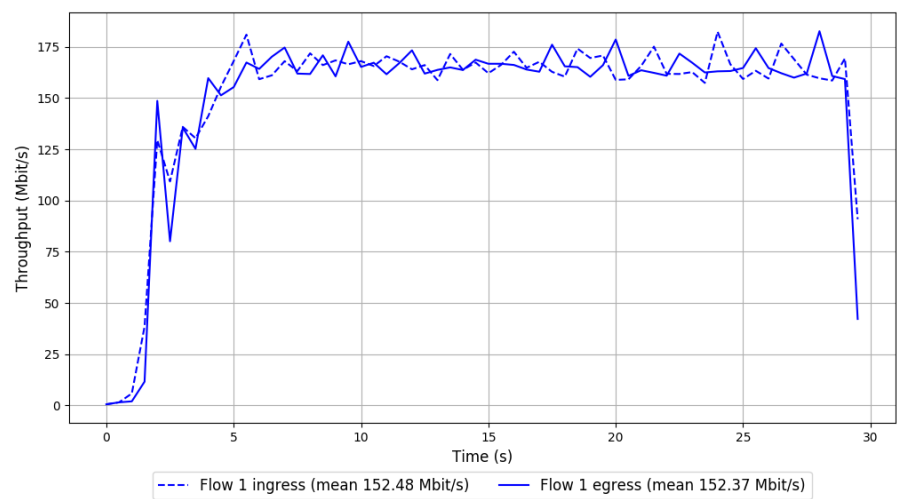


```
Run 1: Statistics of Indigo

Start at: 2018-01-09 06:37:18
End at: 2018-01-09 06:37:48

# Below is generated by plot.py at 2018-01-09 11:38:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 152.37 Mbit/s
95th percentile per-packet one-way delay: 136.957 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 152.37 Mbit/s
95th percentile per-packet one-way delay: 136.957 ms
Loss rate: 1.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-01-09 06:50:16

End at: 2018-01-09 06:50:46

# Below is generated by plot.py at 2018-01-09 11:38:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 149.95 Mbit/s

95th percentile per-packet one-way delay: 136.928 ms

Loss rate: 1.36%

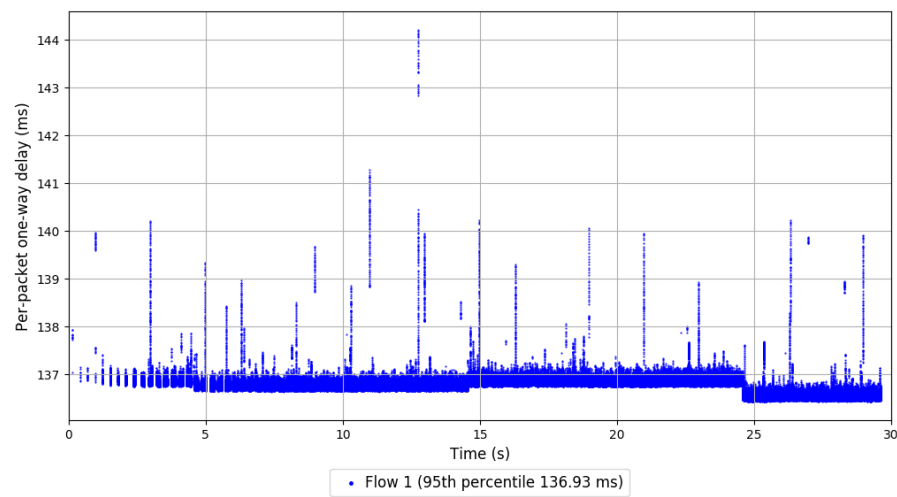
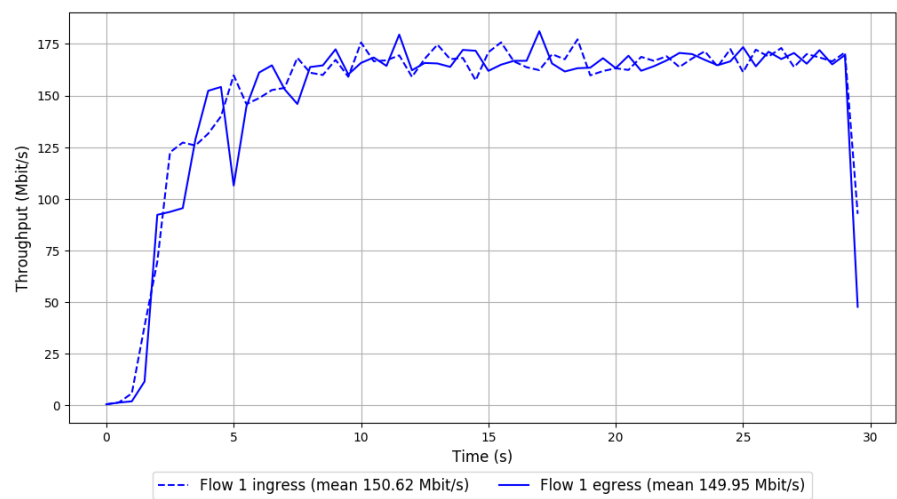
-- Flow 1:

Average throughput: 149.95 Mbit/s

95th percentile per-packet one-way delay: 136.928 ms

Loss rate: 1.36%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-09 07:03:05

End at: 2018-01-09 07:03:35

# Below is generated by plot.py at 2018-01-09 11:38:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 153.80 Mbit/s

95th percentile per-packet one-way delay: 136.781 ms

Loss rate: 1.01%

-- Flow 1:

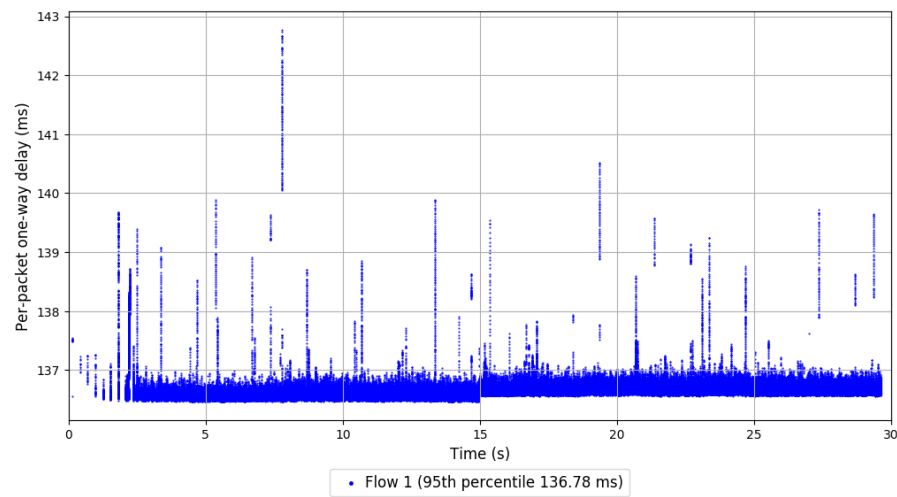
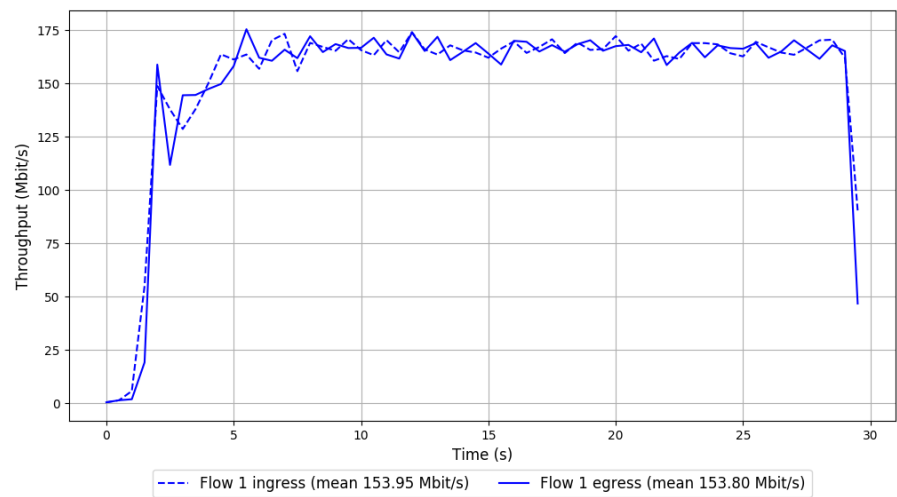
Average throughput: 153.80 Mbit/s

95th percentile per-packet one-way delay: 136.781 ms

Loss rate: 1.01%



Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-09 07:16:04

End at: 2018-01-09 07:16:34

# Below is generated by plot.py at 2018-01-09 11:38:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 140.89 Mbit/s

95th percentile per-packet one-way delay: 161.454 ms

Loss rate: 0.65%

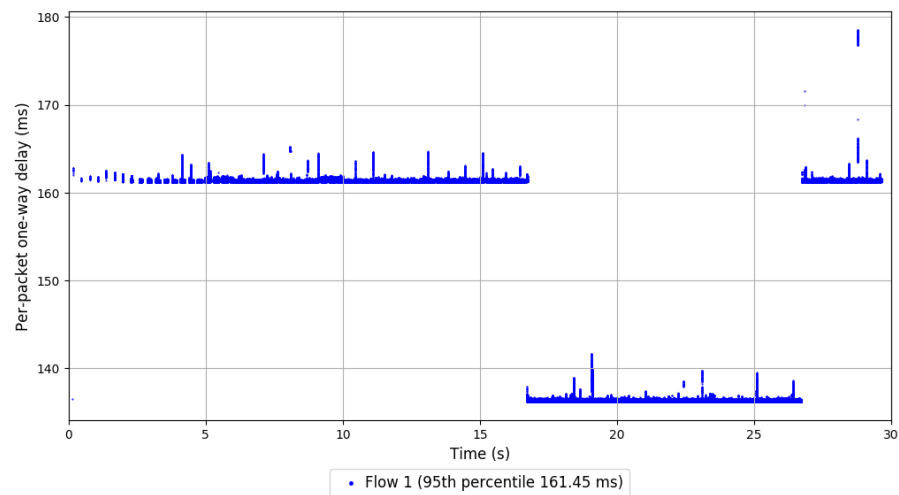
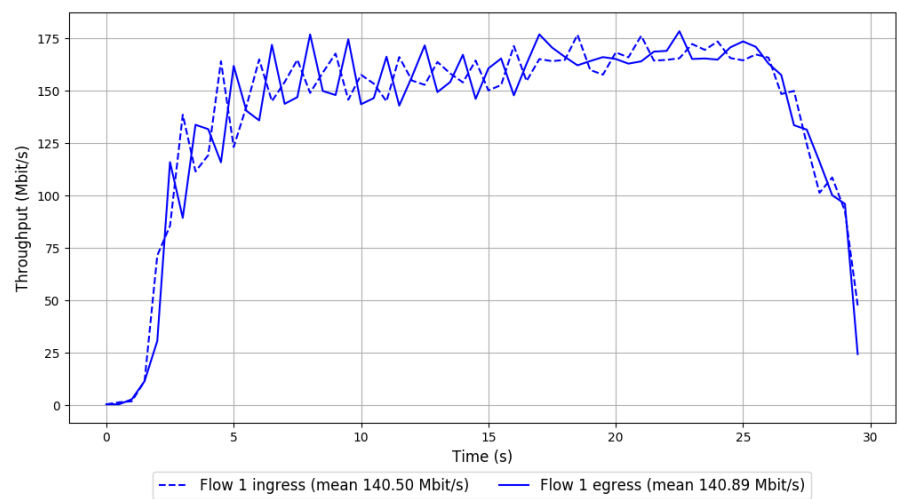
-- Flow 1:

Average throughput: 140.89 Mbit/s

95th percentile per-packet one-way delay: 161.454 ms

Loss rate: 0.65%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-09 07:28:35

End at: 2018-01-09 07:29:05

# Below is generated by plot.py at 2018-01-09 11:38:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.77 Mbit/s

95th percentile per-packet one-way delay: 161.343 ms

Loss rate: 1.21%

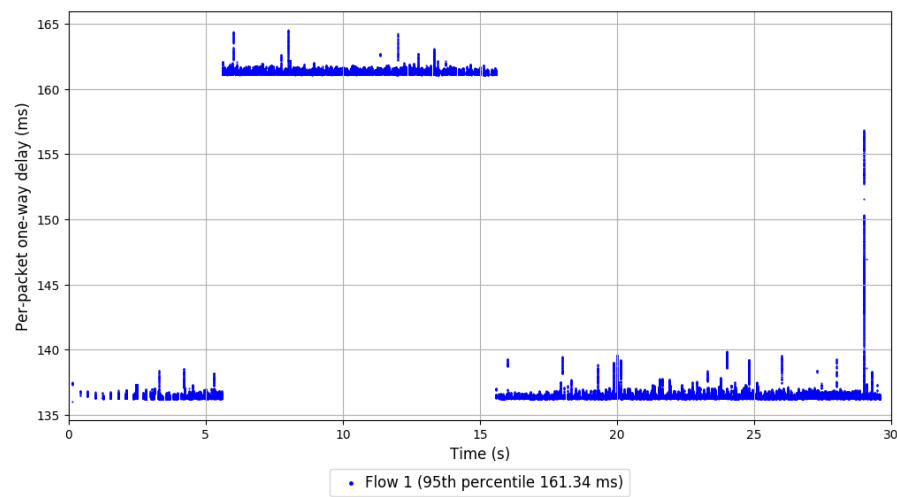
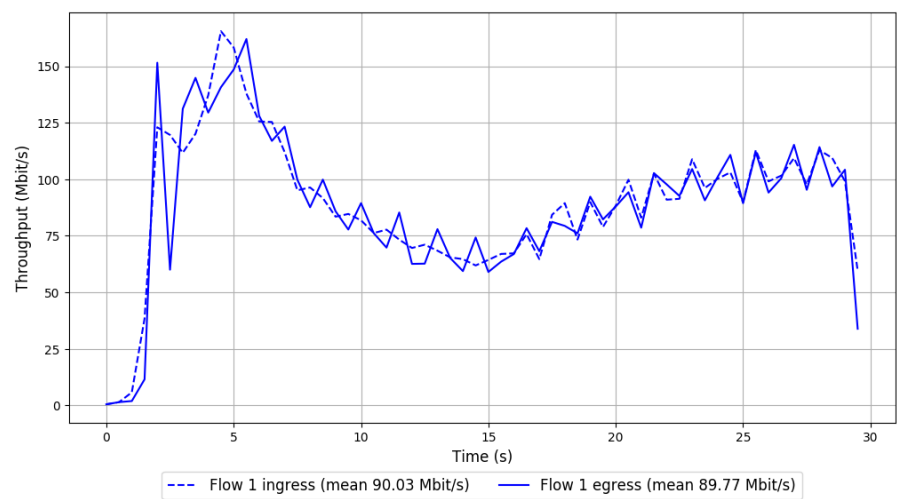
-- Flow 1:

Average throughput: 89.77 Mbit/s

95th percentile per-packet one-way delay: 161.343 ms

Loss rate: 1.21%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-09 07:40:57

End at: 2018-01-09 07:41:27

# Below is generated by plot.py at 2018-01-09 11:38:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 150.06 Mbit/s

95th percentile per-packet one-way delay: 136.692 ms

Loss rate: 1.22%

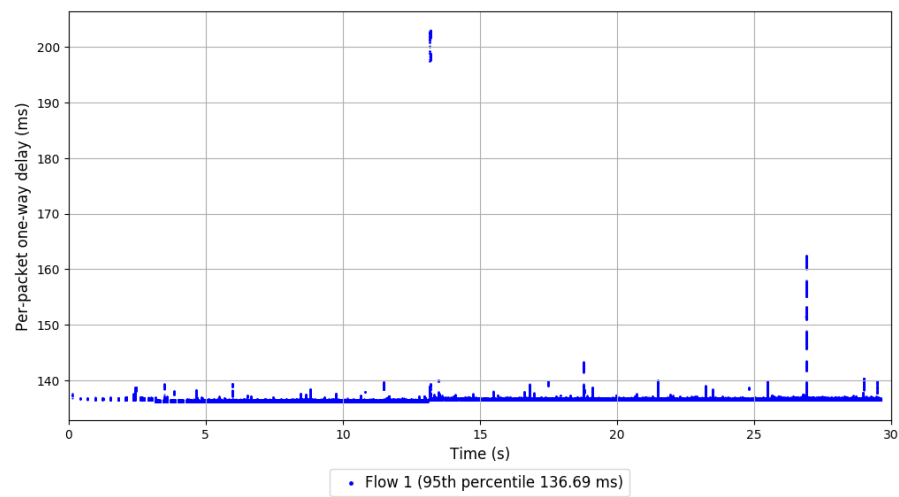
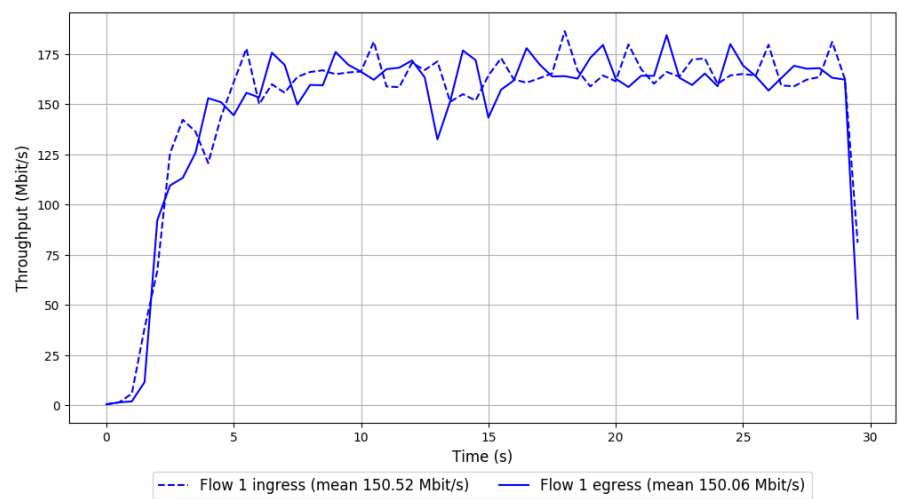
-- Flow 1:

Average throughput: 150.06 Mbit/s

95th percentile per-packet one-way delay: 136.692 ms

Loss rate: 1.22%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-09 07:53:41

End at: 2018-01-09 07:54:11

# Below is generated by plot.py at 2018-01-09 11:38:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 148.98 Mbit/s

95th percentile per-packet one-way delay: 136.949 ms

Loss rate: 1.06%

-- Flow 1:

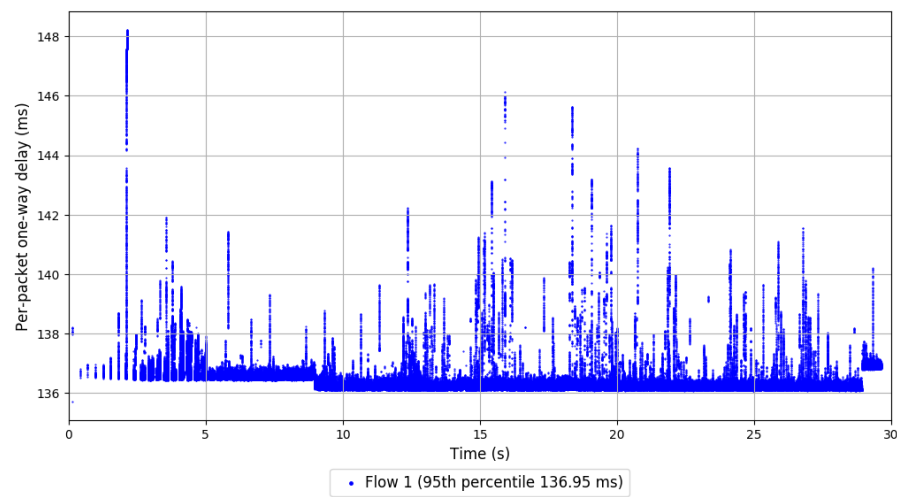
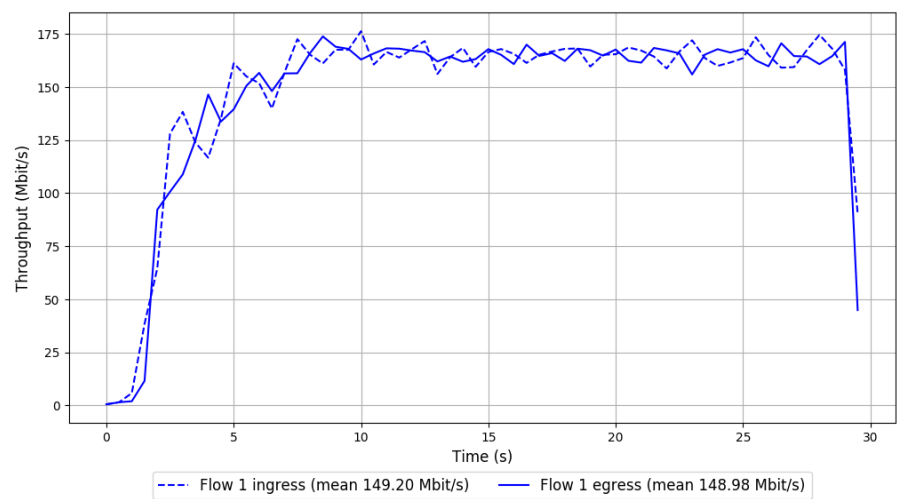
Average throughput: 148.98 Mbit/s

95th percentile per-packet one-way delay: 136.949 ms

Loss rate: 1.06%



Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-09 08:06:46

End at: 2018-01-09 08:07:16

# Below is generated by plot.py at 2018-01-09 11:38:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 148.13 Mbit/s

95th percentile per-packet one-way delay: 136.593 ms

Loss rate: 1.00%

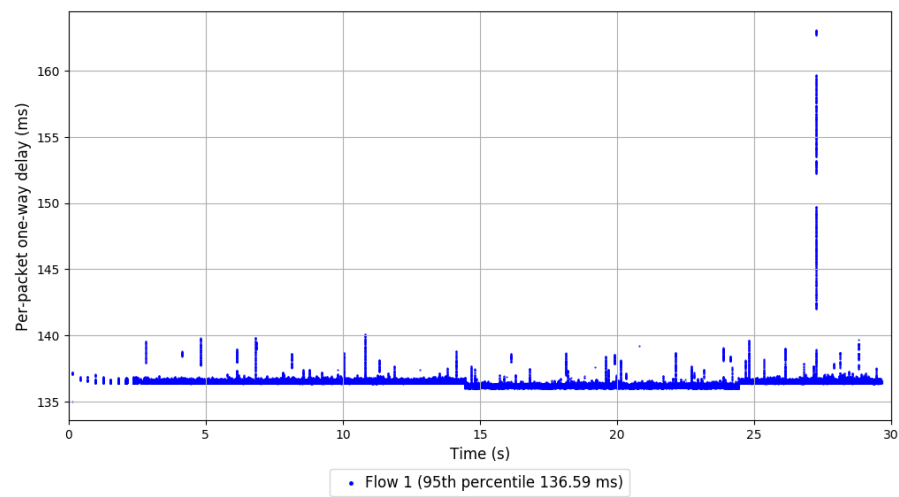
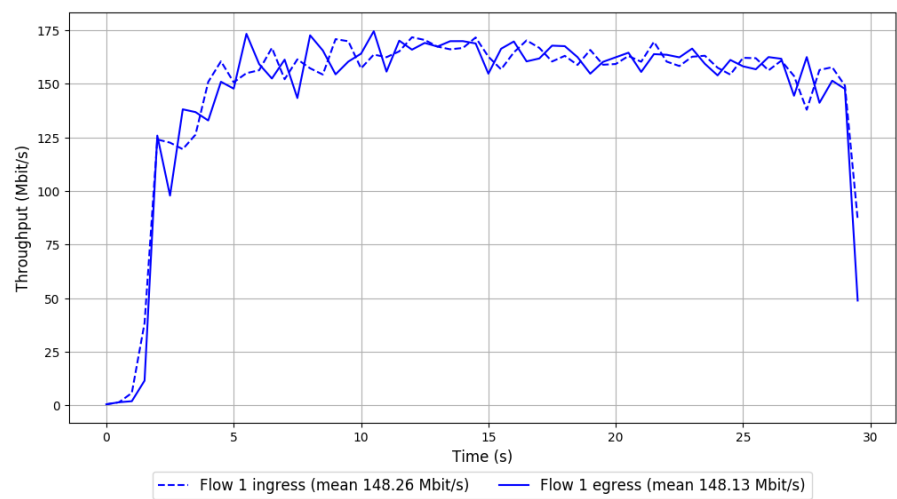
-- Flow 1:

Average throughput: 148.13 Mbit/s

95th percentile per-packet one-way delay: 136.593 ms

Loss rate: 1.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-09 08:19:23

End at: 2018-01-09 08:19:53

# Below is generated by plot.py at 2018-01-09 11:38:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 151.62 Mbit/s

95th percentile per-packet one-way delay: 136.289 ms

Loss rate: 1.06%

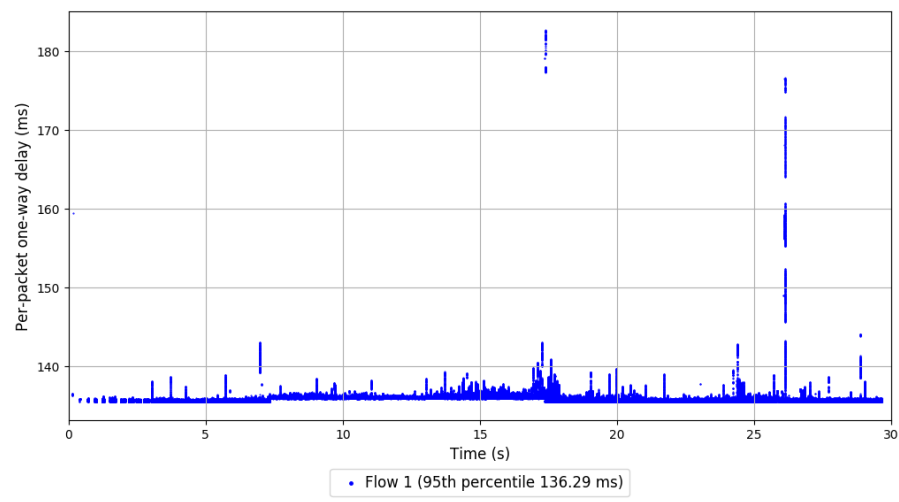
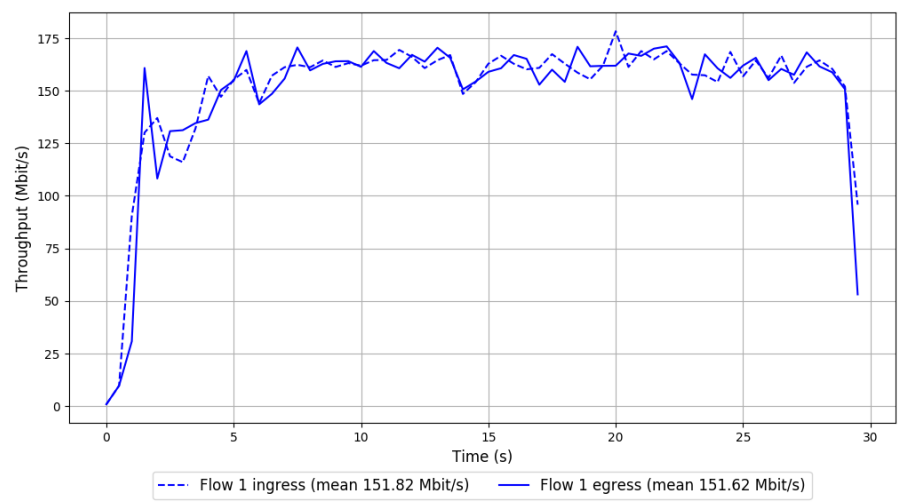
-- Flow 1:

Average throughput: 151.62 Mbit/s

95th percentile per-packet one-way delay: 136.289 ms

Loss rate: 1.06%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-09 08:32:30

End at: 2018-01-09 08:33:00

# Below is generated by plot.py at 2018-01-09 11:38:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 137.01 Mbit/s

95th percentile per-packet one-way delay: 136.277 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 137.01 Mbit/s

95th percentile per-packet one-way delay: 136.277 ms

Loss rate: 1.10%

Run 10: Report of Indigo — Data Link

