

Pantheon Report

Generated at 2017-11-30 20:01:20 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

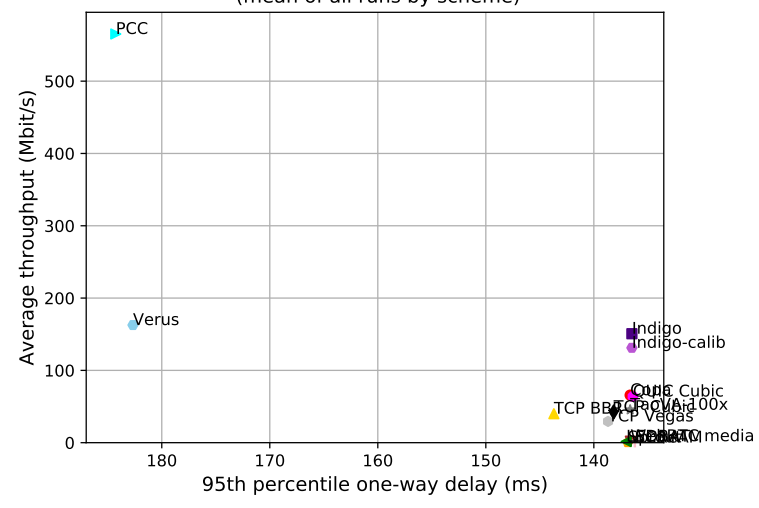
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

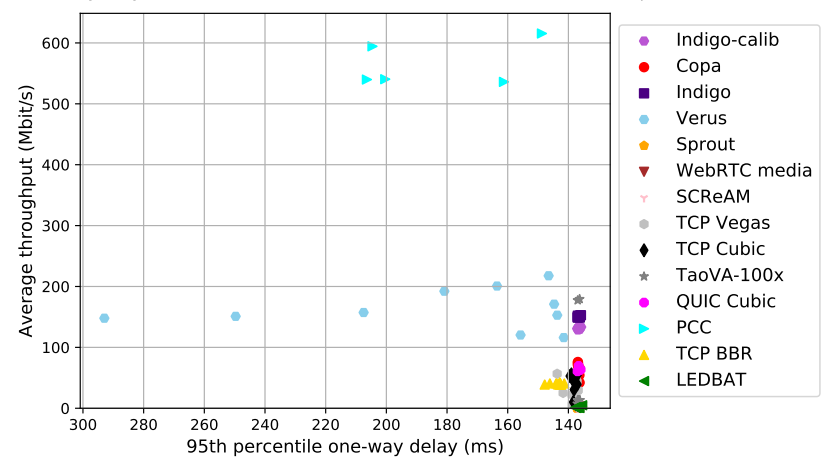
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fabbb936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
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 Sydney Ethernet to GCE London Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE Sydney Ethernet to GCE London Ethernet, 10 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	40.08	143.70	0.17
TCP Cubic	9	42.45	138.17	0.03
LEDBAT	10	1.52	137.01	0.20
PCC	5	565.23	184.25	1.40
QUIC Cubic	10	63.85	136.38	0.00
SCReAM	10	0.22	136.20	0.00
WebRTC media	10	2.10	136.62	0.00
Sprout	10	0.40	136.85	0.00
TaoVA-100x	10	45.58	136.64	0.00
TCP Vegas	10	29.43	138.69	0.03
Verus	10	162.69	182.67	1.52
Copa	8	65.73	136.64	0.00
Indigo	10	150.69	136.48	0.00
Indigo-calib	10	131.22	136.48	0.00

Run 1: Statistics of TCP BBR

Start at: 2017-11-30 17:16:34

End at: 2017-11-30 17:17:04

Below is generated by plot.py at 2017-11-30 19:37:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.95 Mbit/s

95th percentile per-packet one-way delay: 147.815 ms

Loss rate: 0.54%

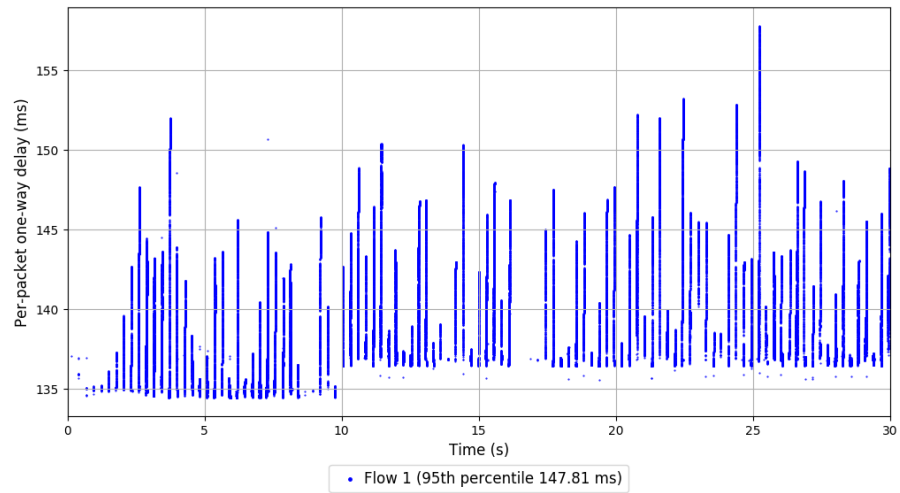
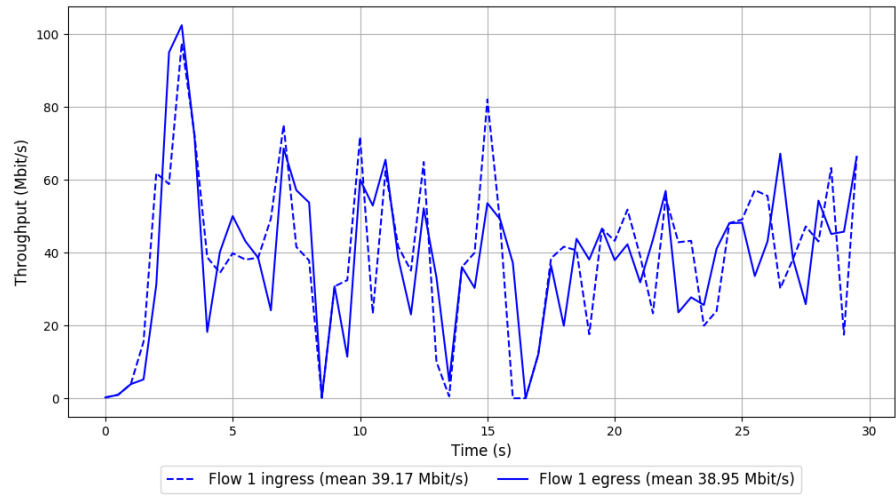
-- Flow 1:

Average throughput: 38.95 Mbit/s

95th percentile per-packet one-way delay: 147.815 ms

Loss rate: 0.54%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-30 17:27:49

End at: 2017-11-30 17:28:19

Below is generated by plot.py at 2017-11-30 19:37:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.99 Mbit/s

95th percentile per-packet one-way delay: 144.036 ms

Loss rate: 0.12%

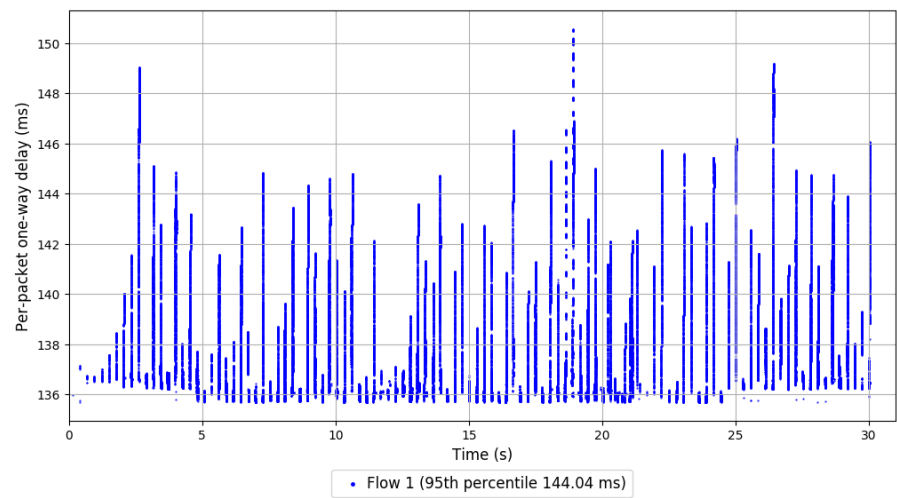
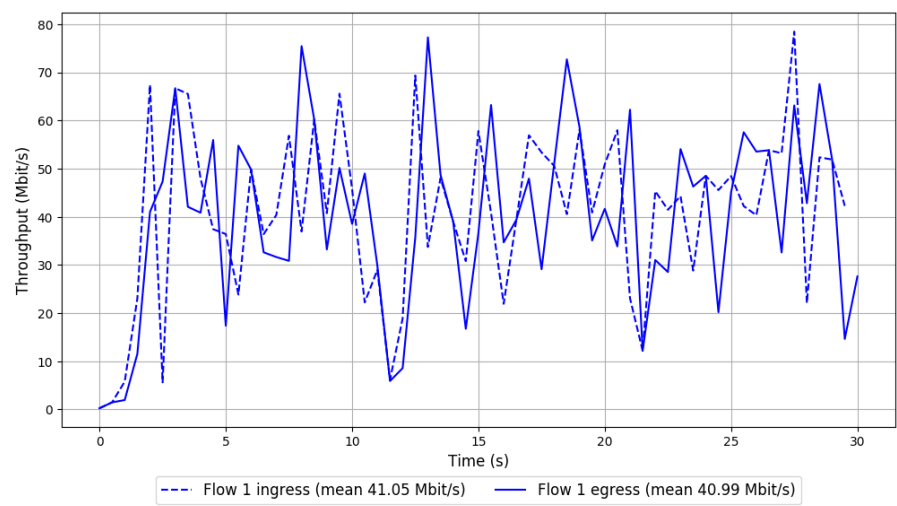
-- Flow 1:

Average throughput: 40.99 Mbit/s

95th percentile per-packet one-way delay: 144.036 ms

Loss rate: 0.12%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-30 17:39:00

End at: 2017-11-30 17:39:30

Below is generated by plot.py at 2017-11-30 19:37:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.48 Mbit/s

95th percentile per-packet one-way delay: 142.867 ms

Loss rate: 0.01%

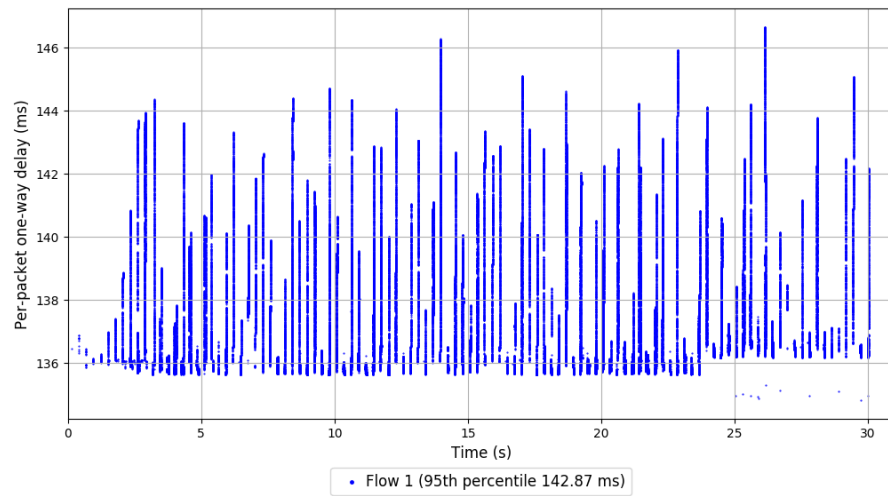
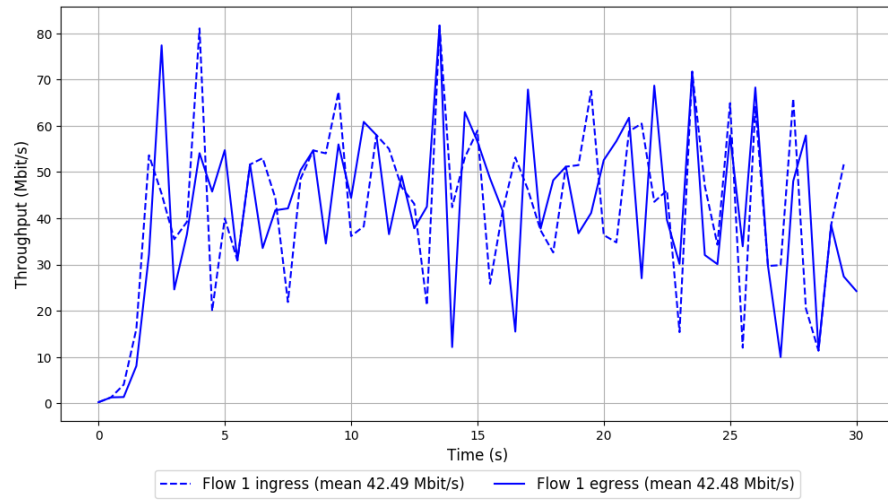
-- Flow 1:

Average throughput: 42.48 Mbit/s

95th percentile per-packet one-way delay: 142.867 ms

Loss rate: 0.01%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-30 17:49:52

End at: 2017-11-30 17:50:22

Below is generated by plot.py at 2017-11-30 19:37:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.53 Mbit/s

95th percentile per-packet one-way delay: 143.484 ms

Loss rate: 0.17%

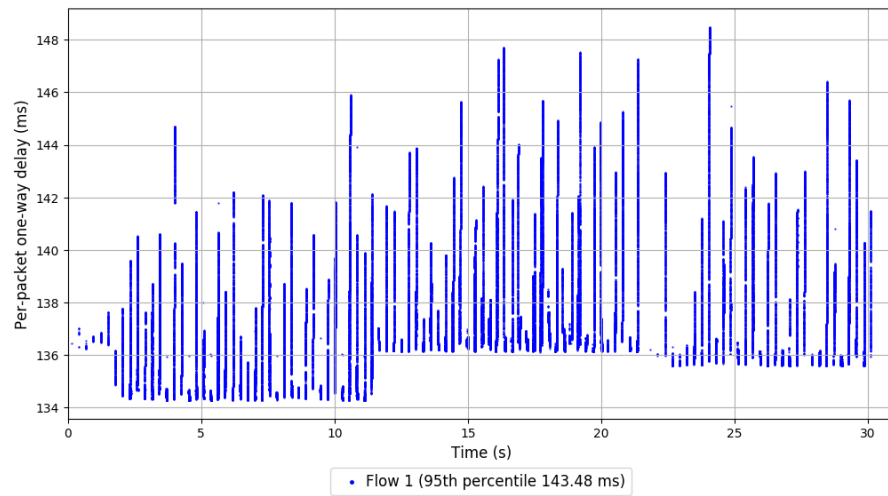
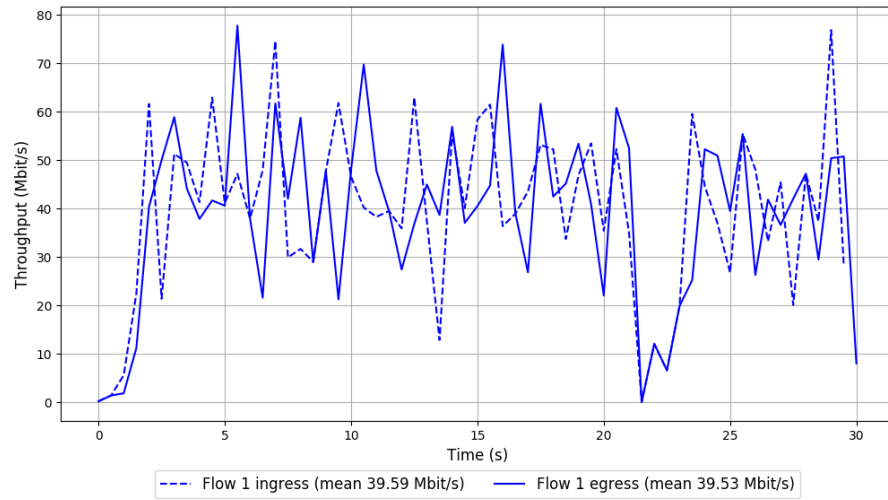
-- Flow 1:

Average throughput: 39.53 Mbit/s

95th percentile per-packet one-way delay: 143.484 ms

Loss rate: 0.17%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-30 18:00:38

End at: 2017-11-30 18:01:08

Below is generated by plot.py at 2017-11-30 19:37:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.59 Mbit/s

95th percentile per-packet one-way delay: 142.444 ms

Loss rate: 0.02%

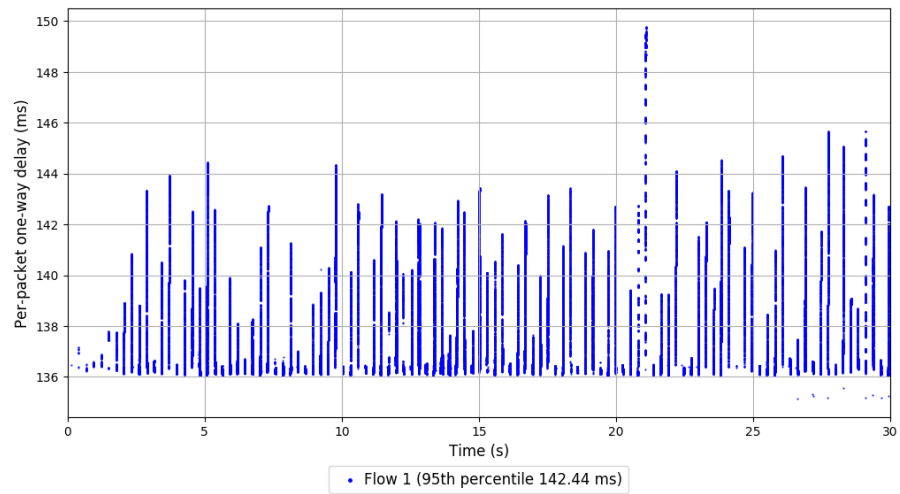
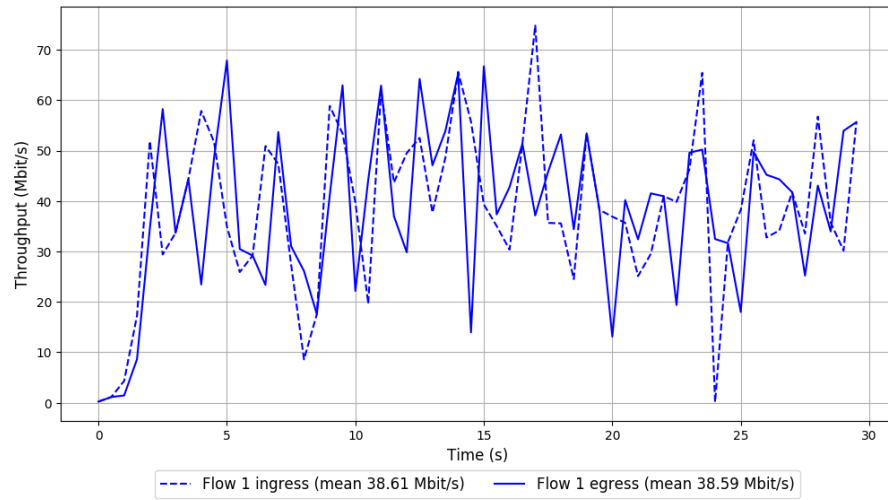
-- Flow 1:

Average throughput: 38.59 Mbit/s

95th percentile per-packet one-way delay: 142.444 ms

Loss rate: 0.02%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-30 18:11:32

End at: 2017-11-30 18:12:02

Below is generated by plot.py at 2017-11-30 19:37:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.52 Mbit/s

95th percentile per-packet one-way delay: 142.615 ms

Loss rate: 0.01%

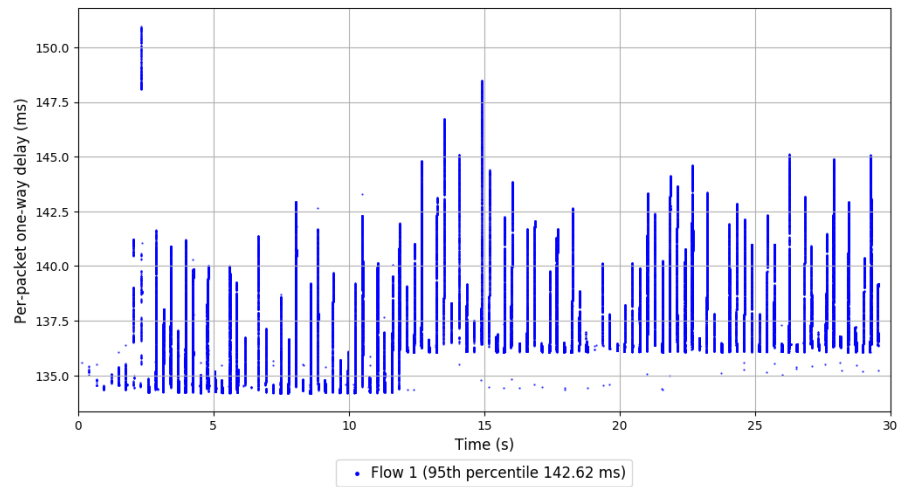
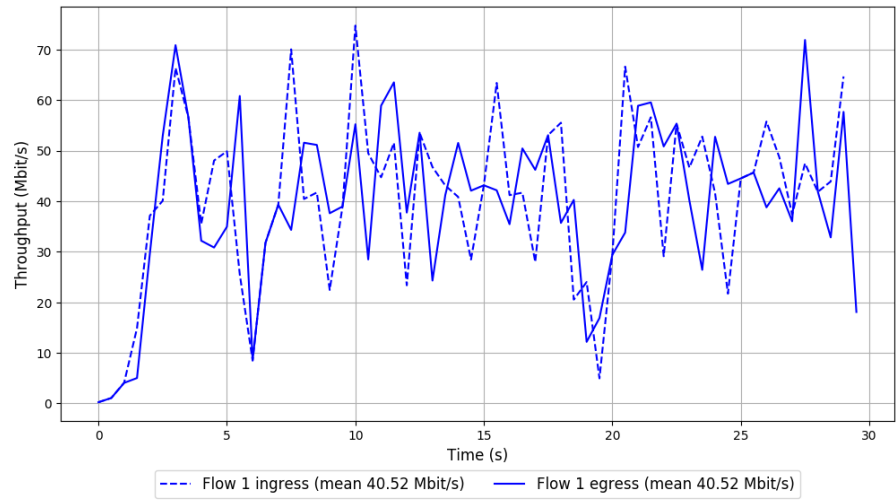
-- Flow 1:

Average throughput: 40.52 Mbit/s

95th percentile per-packet one-way delay: 142.615 ms

Loss rate: 0.01%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-30 18:22:40

End at: 2017-11-30 18:23:10

Below is generated by plot.py at 2017-11-30 19:37:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.39 Mbit/s

95th percentile per-packet one-way delay: 143.328 ms

Loss rate: 0.82%

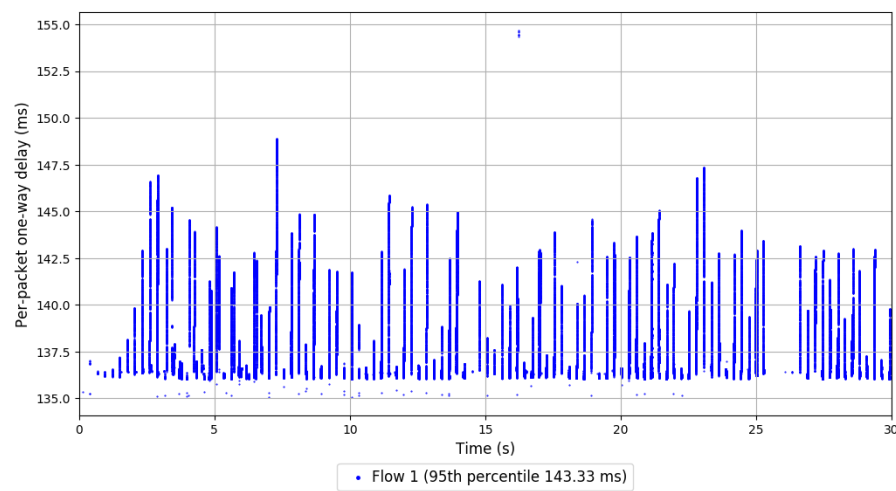
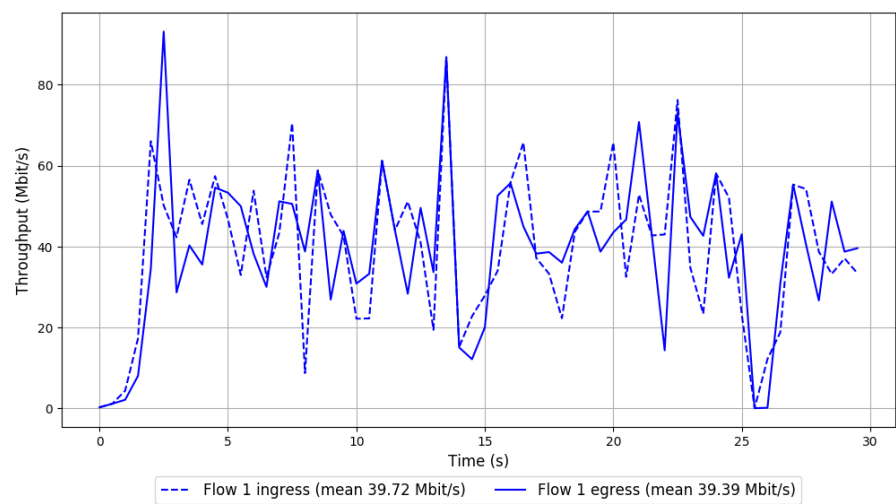
-- Flow 1:

Average throughput: 39.39 Mbit/s

95th percentile per-packet one-way delay: 143.328 ms

Loss rate: 0.82%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-30 18:34:02

End at: 2017-11-30 18:34:32

Below is generated by plot.py at 2017-11-30 19:37:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.70 Mbit/s

95th percentile per-packet one-way delay: 141.346 ms

Loss rate: 0.01%

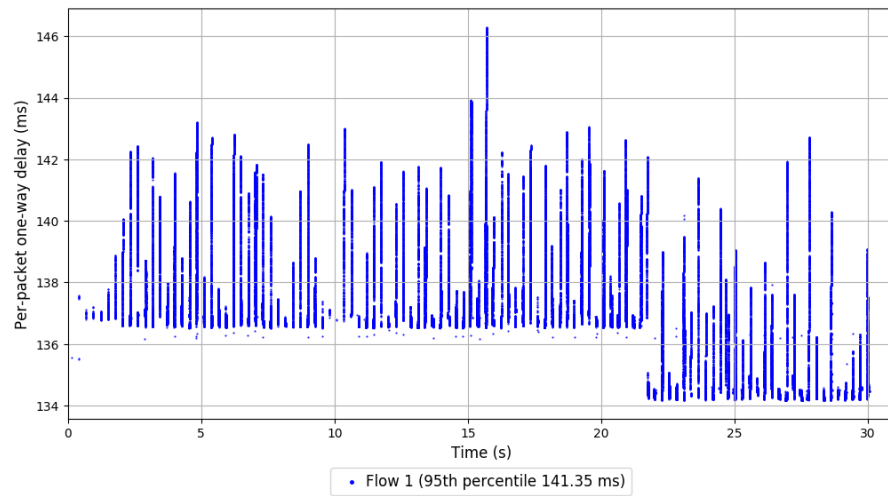
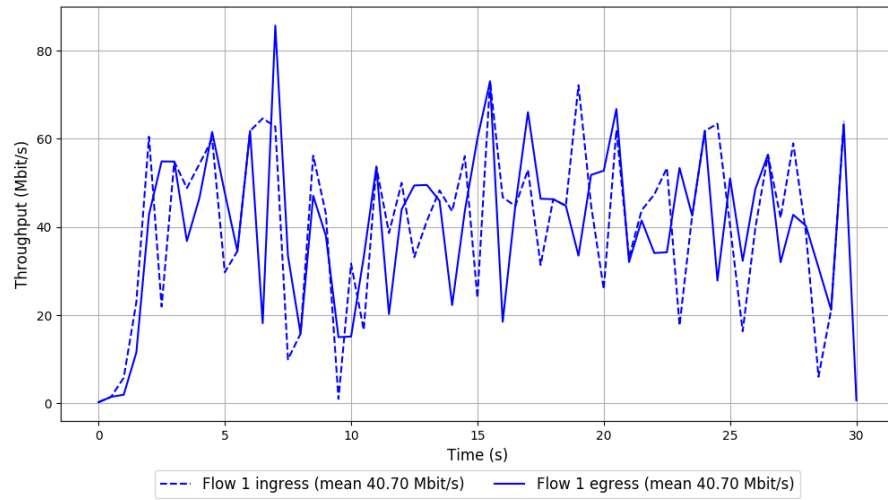
-- Flow 1:

Average throughput: 40.70 Mbit/s

95th percentile per-packet one-way delay: 141.346 ms

Loss rate: 0.01%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-30 18:45:41

End at: 2017-11-30 18:46:11

Below is generated by plot.py at 2017-11-30 19:38:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.85 Mbit/s

95th percentile per-packet one-way delay: 142.943 ms

Loss rate: 0.03%

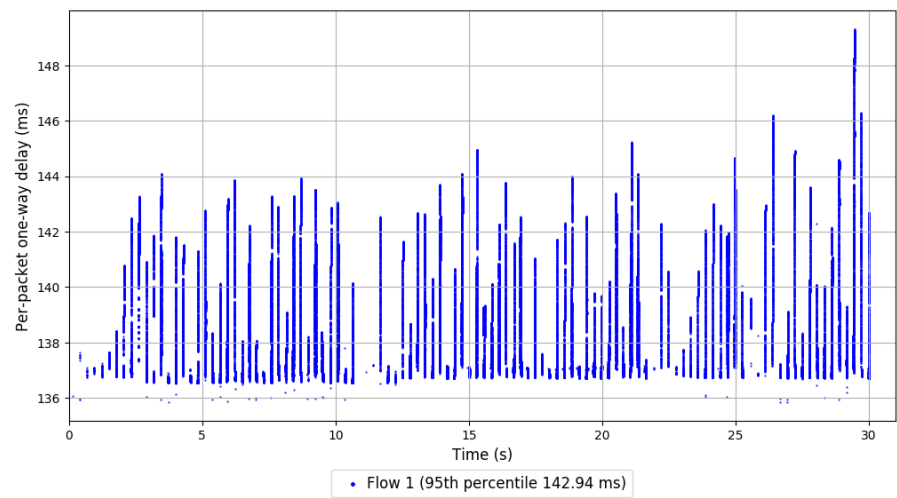
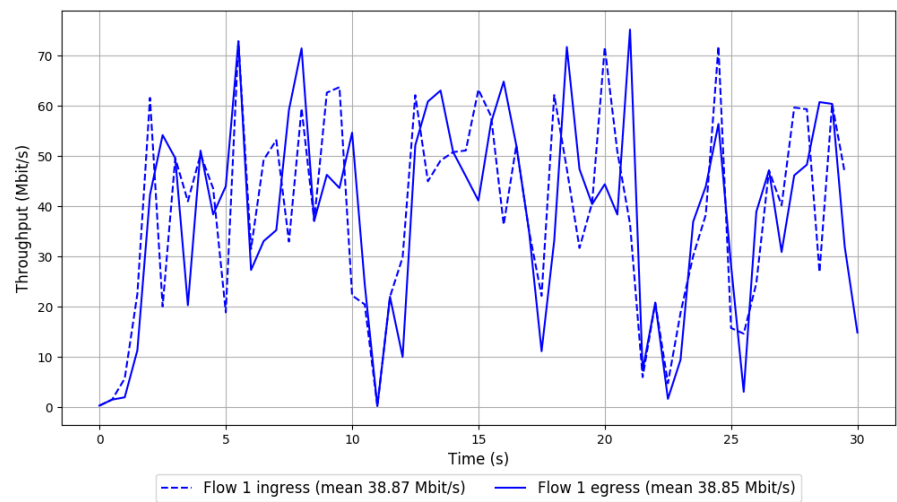
-- Flow 1:

Average throughput: 38.85 Mbit/s

95th percentile per-packet one-way delay: 142.943 ms

Loss rate: 0.03%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-30 18:56:35

End at: 2017-11-30 18:57:05

Below is generated by plot.py at 2017-11-30 19:38:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.82 Mbit/s

95th percentile per-packet one-way delay: 146.112 ms

Loss rate: 0.01%

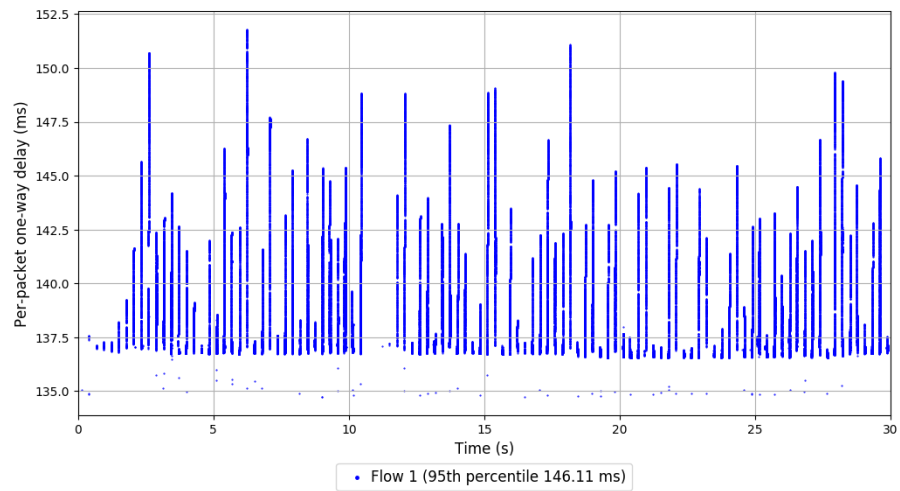
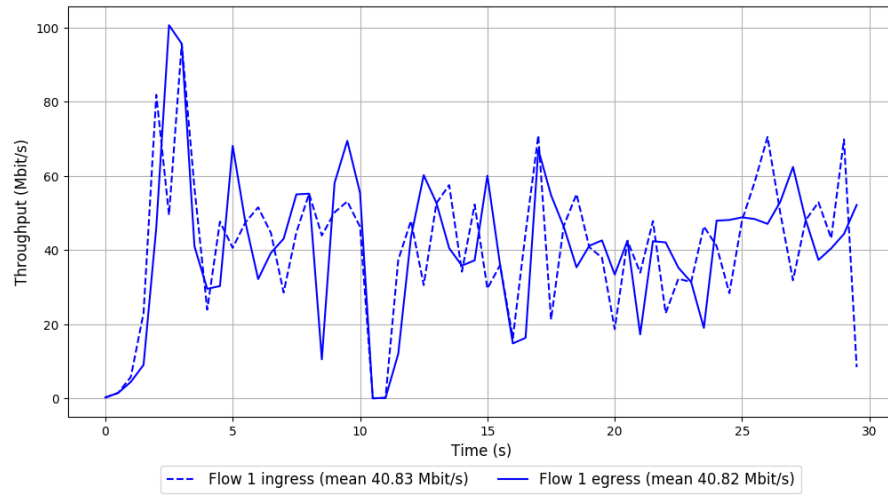
-- Flow 1:

Average throughput: 40.82 Mbit/s

95th percentile per-packet one-way delay: 146.112 ms

Loss rate: 0.01%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-30 17:14:19

End at: 2017-11-30 17:14:49

Below is generated by plot.py at 2017-11-30 19:38:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.17 Mbit/s

95th percentile per-packet one-way delay: 138.372 ms

Loss rate: 0.18%

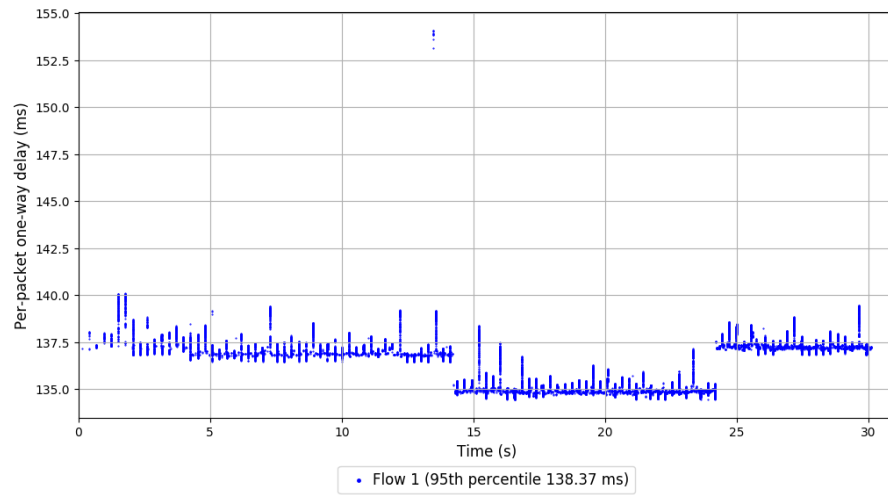
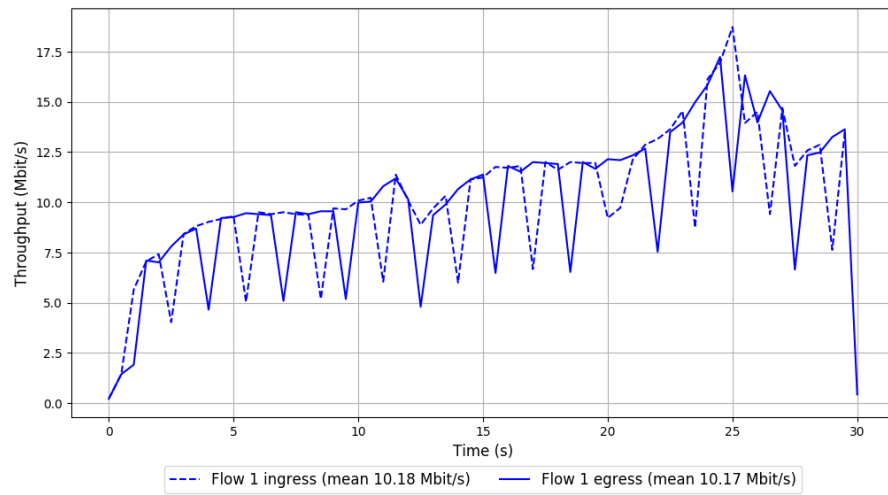
-- Flow 1:

Average throughput: 10.17 Mbit/s

95th percentile per-packet one-way delay: 138.372 ms

Loss rate: 0.18%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-30 17:25:31

End at: 2017-11-30 17:26:01

Below is generated by plot.py at 2017-11-30 19:38:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.88 Mbit/s

95th percentile per-packet one-way delay: 137.862 ms

Loss rate: 0.01%

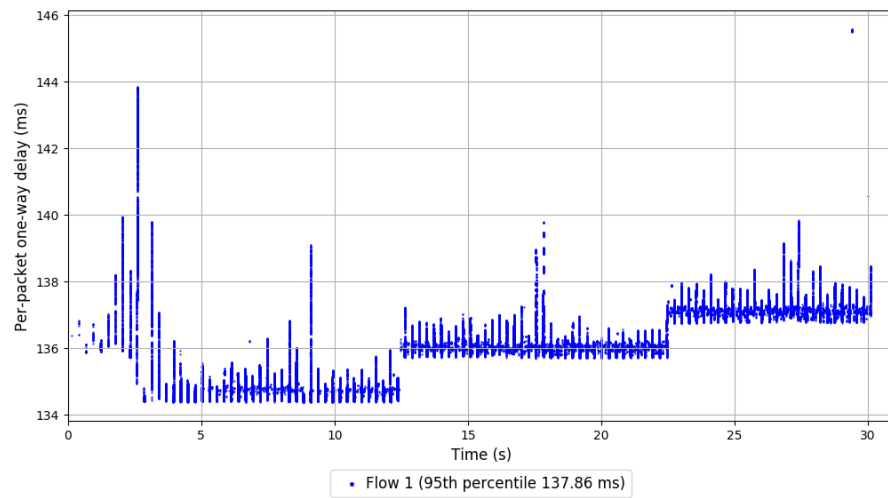
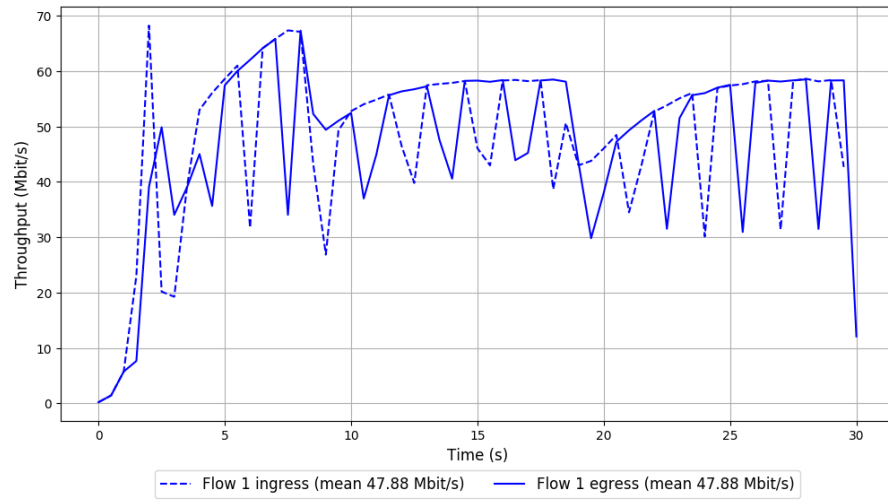
-- Flow 1:

Average throughput: 47.88 Mbit/s

95th percentile per-packet one-way delay: 137.862 ms

Loss rate: 0.01%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-30 17:36:42

End at: 2017-11-30 17:37:12

Below is generated by plot.py at 2017-11-30 19:38:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.92 Mbit/s

95th percentile per-packet one-way delay: 138.058 ms

Loss rate: 0.01%

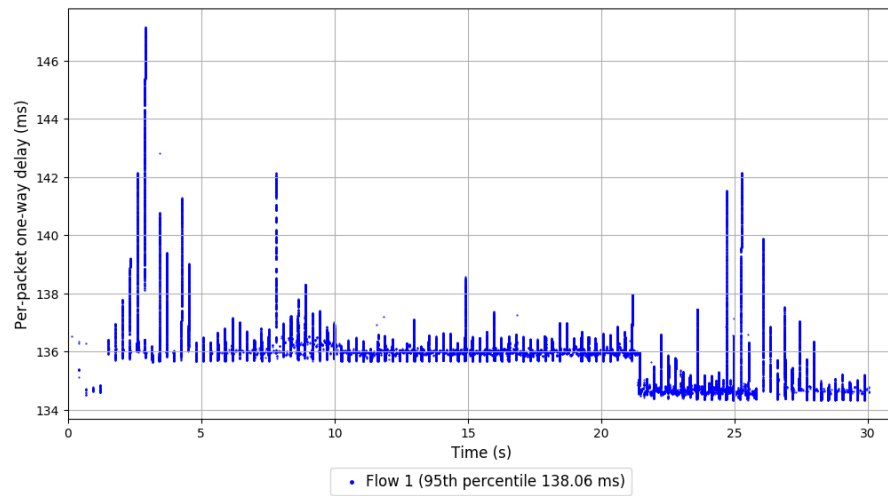
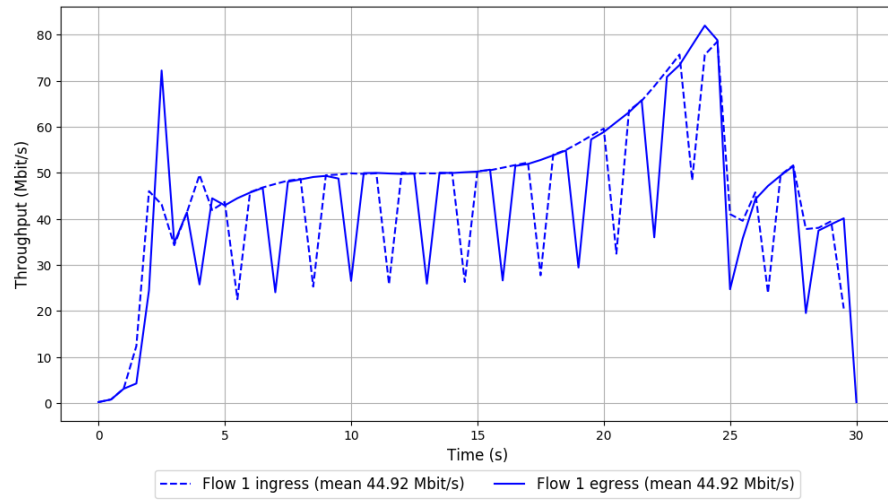
-- Flow 1:

Average throughput: 44.92 Mbit/s

95th percentile per-packet one-way delay: 138.058 ms

Loss rate: 0.01%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-30 17:47:34

End at: 2017-11-30 17:48:04

Below is generated by plot.py at 2017-11-30 19:38:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.89 Mbit/s

95th percentile per-packet one-way delay: 139.497 ms

Loss rate: 0.00%

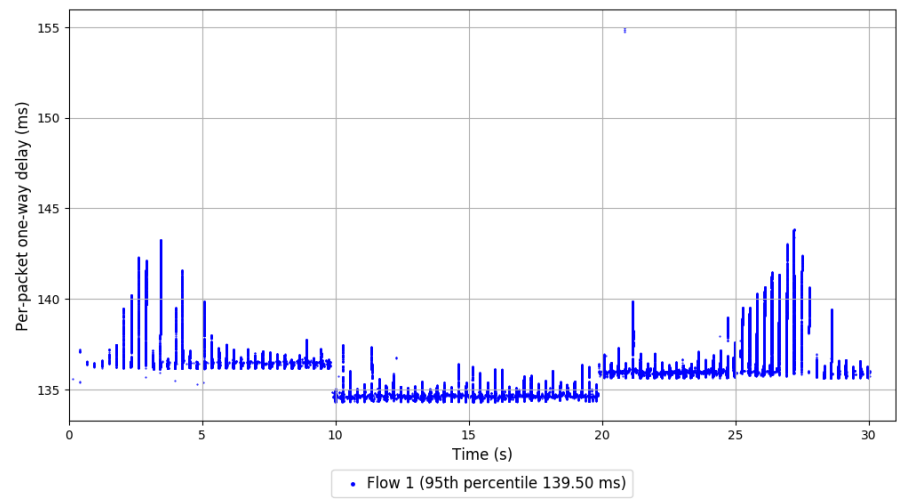
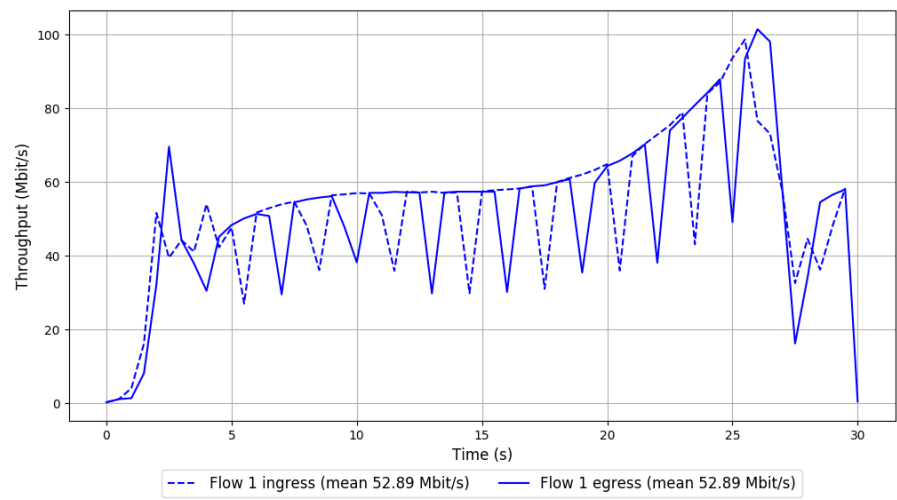
-- Flow 1:

Average throughput: 52.89 Mbit/s

95th percentile per-packet one-way delay: 139.497 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-30 17:58:19

End at: 2017-11-30 17:58:49

Below is generated by plot.py at 2017-11-30 19:38:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.94 Mbit/s

95th percentile per-packet one-way delay: 138.468 ms

Loss rate: 0.00%

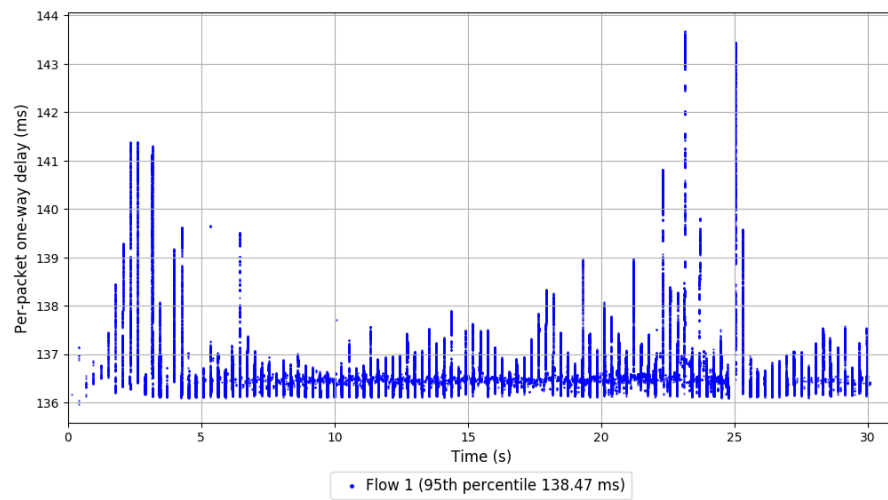
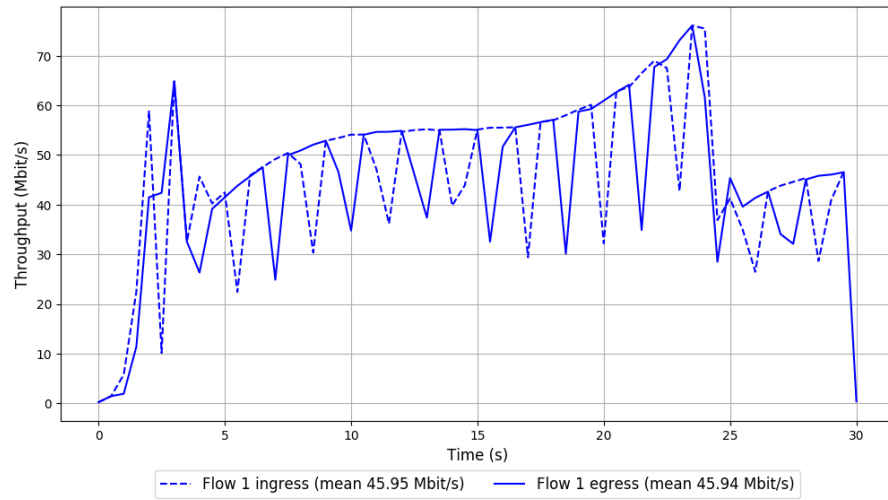
-- Flow 1:

Average throughput: 45.94 Mbit/s

95th percentile per-packet one-way delay: 138.468 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-30 18:09:12

End at: 2017-11-30 18:09:43

Below is generated by plot.py at 2017-11-30 19:38:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.27 Mbit/s

95th percentile per-packet one-way delay: 137.073 ms

Loss rate: 0.00%

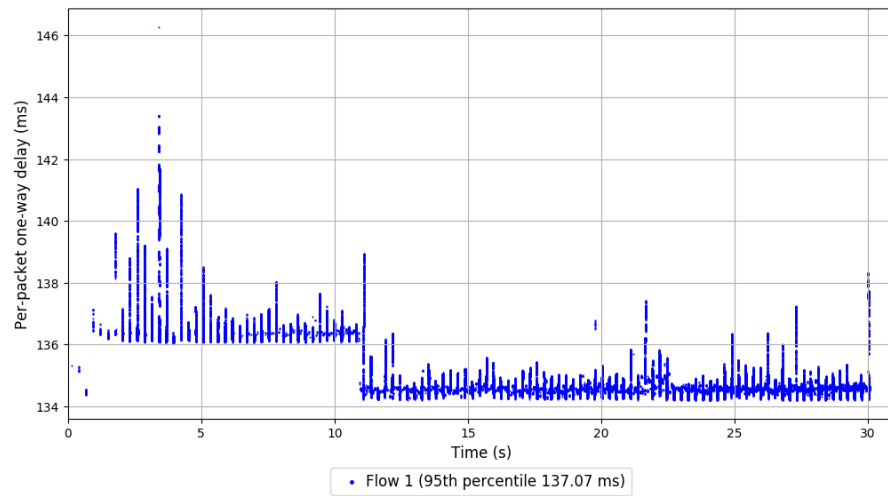
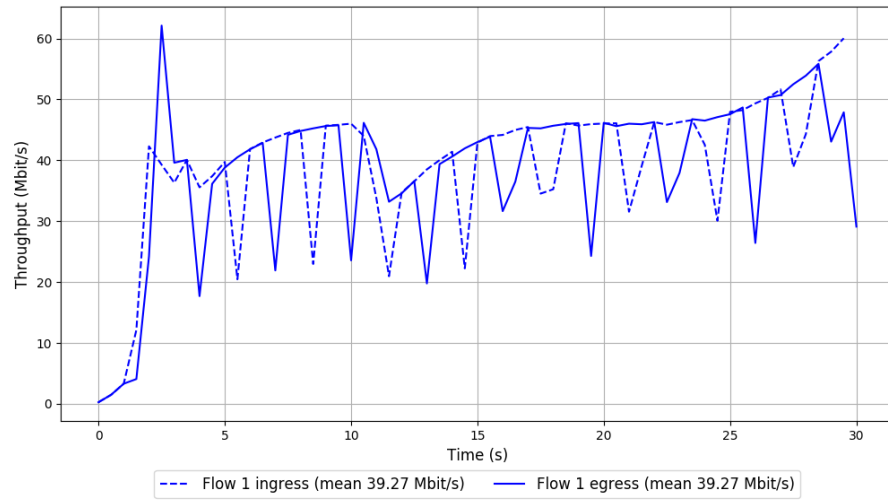
-- Flow 1:

Average throughput: 39.27 Mbit/s

95th percentile per-packet one-way delay: 137.073 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-30 18:20:22

End at: 2017-11-30 18:20:52

Below is generated by plot.py at 2017-11-30 19:39:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.73 Mbit/s

95th percentile per-packet one-way delay: 137.025 ms

Loss rate: 0.00%

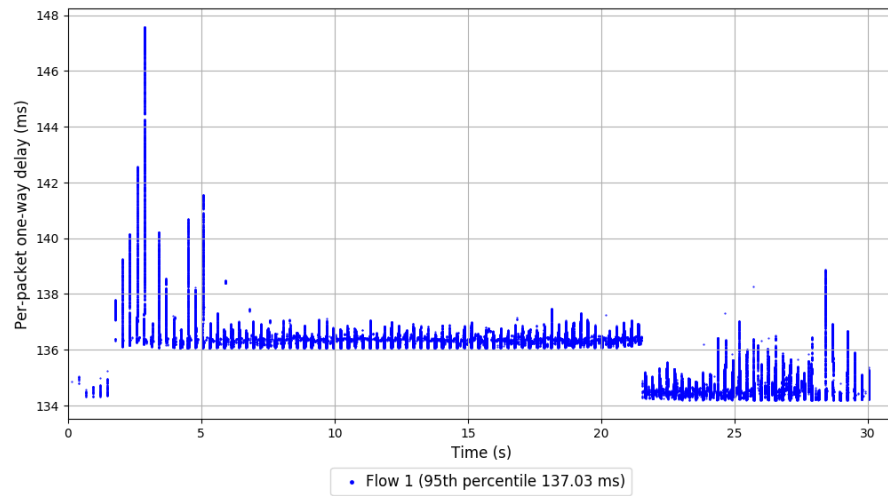
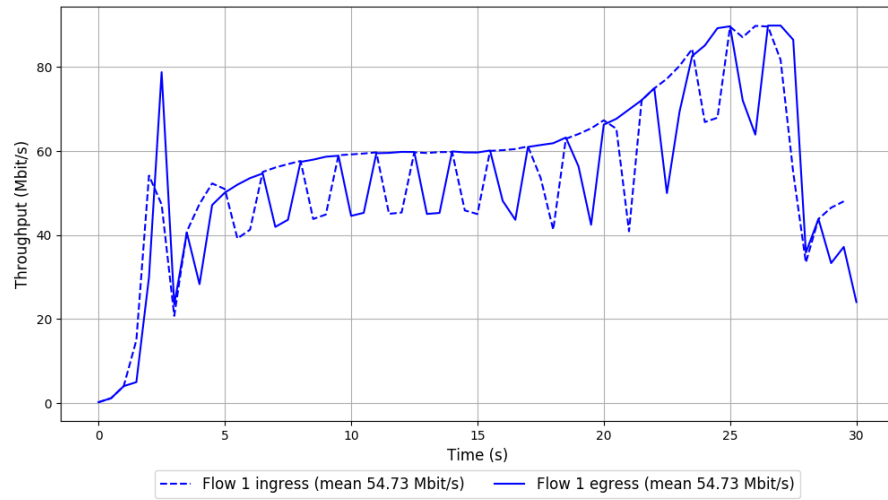
-- Flow 1:

Average throughput: 54.73 Mbit/s

95th percentile per-packet one-way delay: 137.025 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link

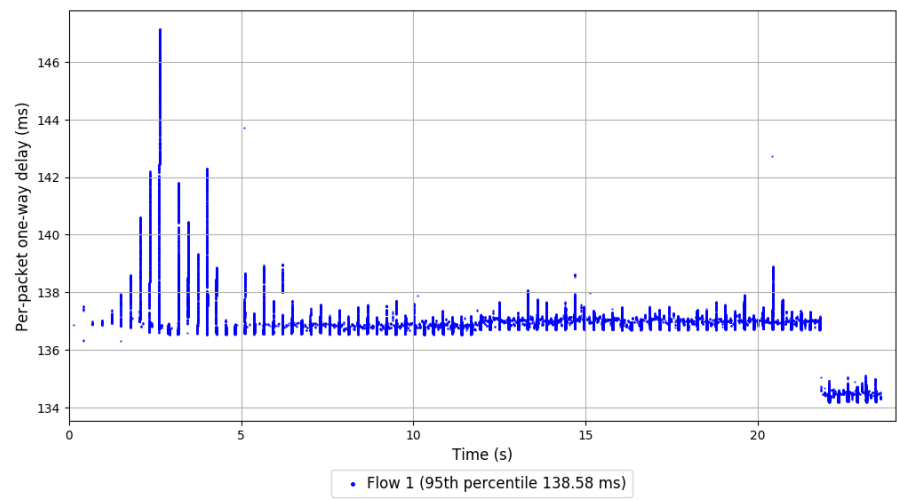
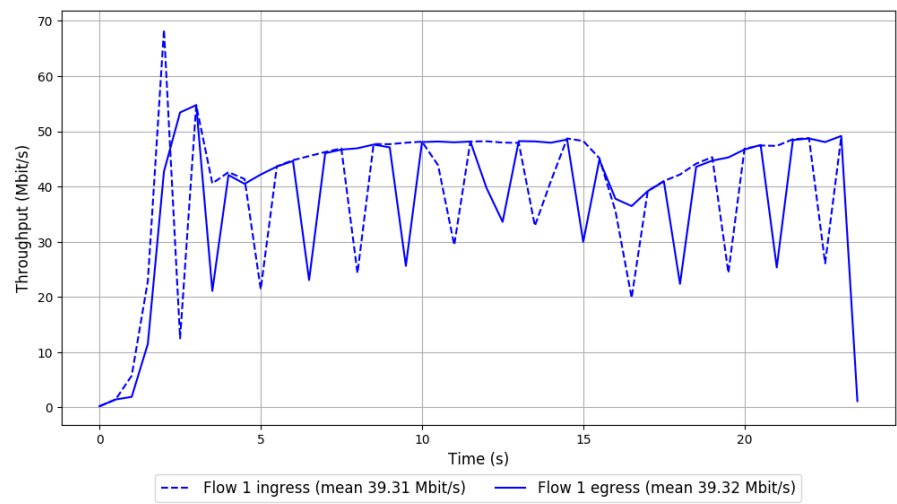


Run 8: Statistics of TCP Cubic

Start at: 2017-11-30 18:31:45

End at: 2017-11-30 18:32:15

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-30 18:43:23

End at: 2017-11-30 18:43:53

Below is generated by plot.py at 2017-11-30 19:39:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.65 Mbit/s

95th percentile per-packet one-way delay: 139.001 ms

Loss rate: 0.00%

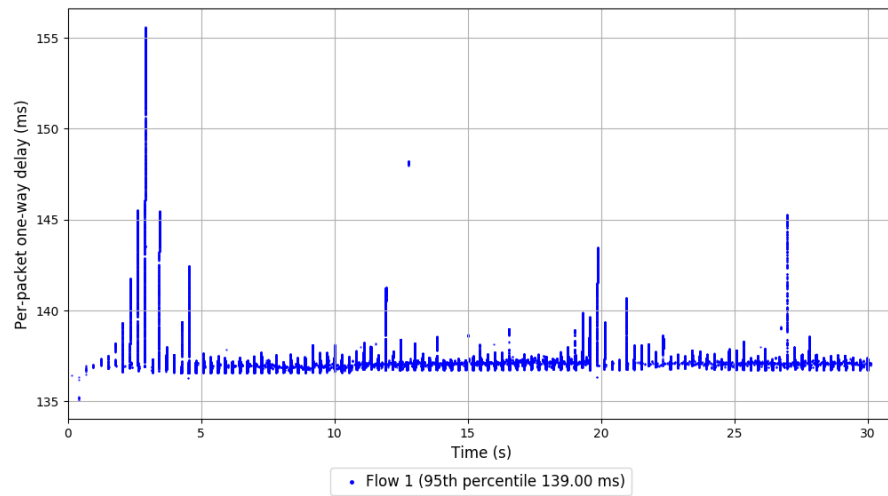
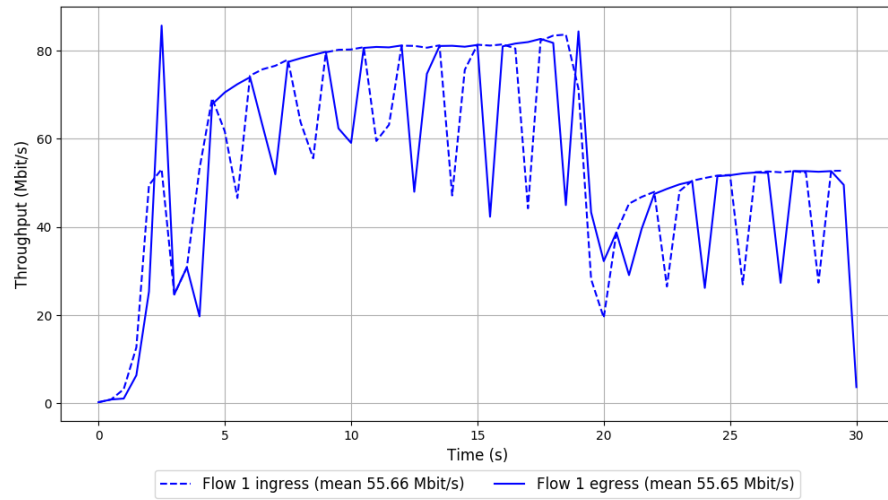
-- Flow 1:

Average throughput: 55.65 Mbit/s

95th percentile per-packet one-way delay: 139.001 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-30 18:54:16

End at: 2017-11-30 18:54:47

Below is generated by plot.py at 2017-11-30 19:39:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.61 Mbit/s

95th percentile per-packet one-way delay: 138.147 ms

Loss rate: 0.03%

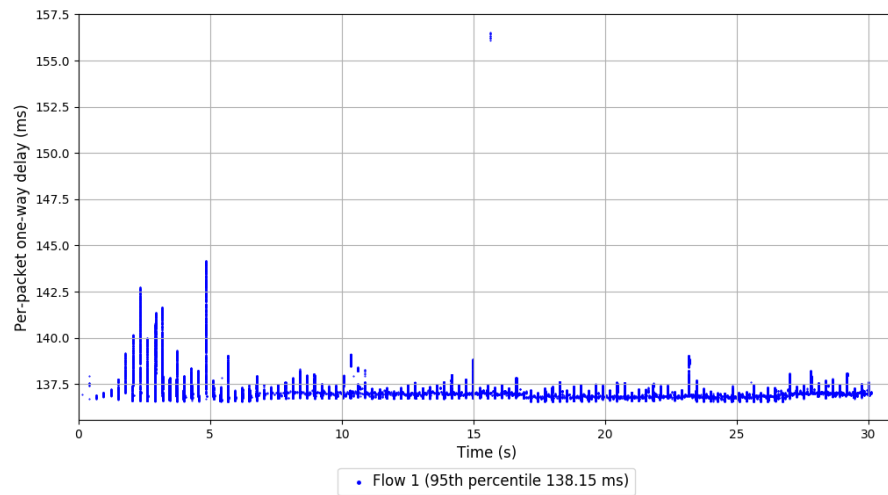
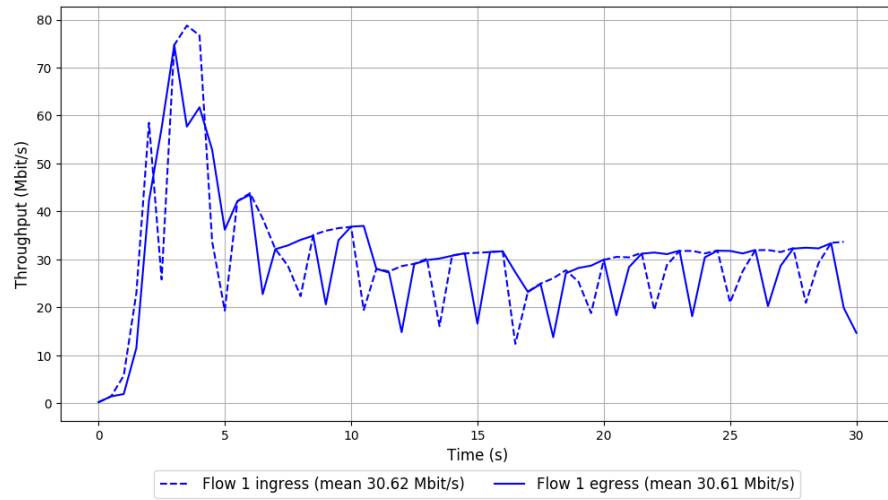
-- Flow 1:

Average throughput: 30.61 Mbit/s

95th percentile per-packet one-way delay: 138.147 ms

Loss rate: 0.03%

Run 10: Report of TCP Cubic — Data Link

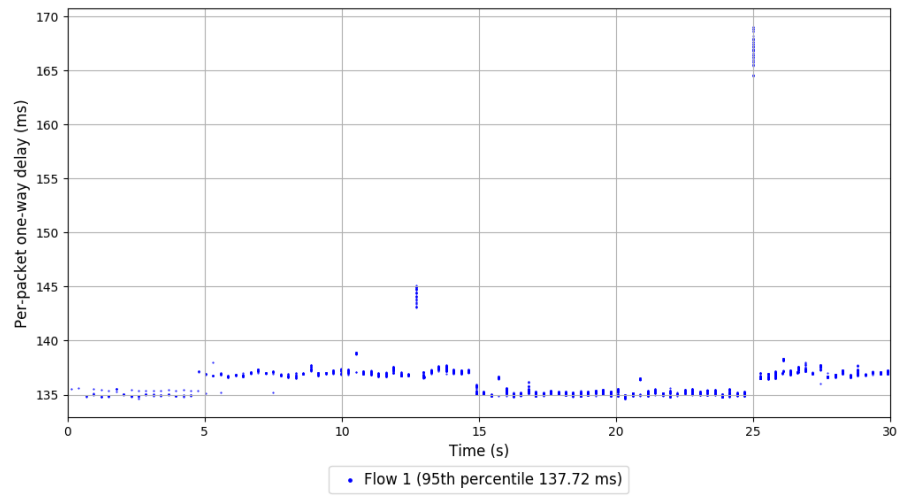
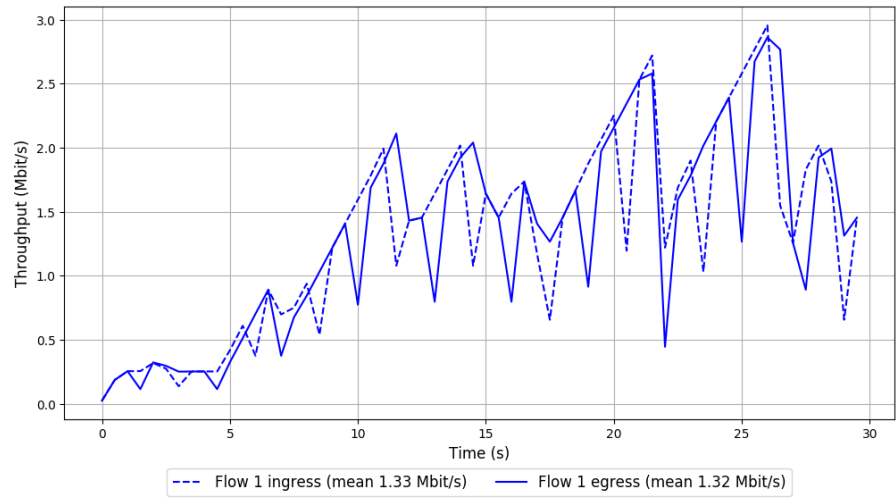


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-30 17:09:19
End at: 2017-11-30 17:09:49

# Below is generated by plot.py at 2017-11-30 19:39:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 137.722 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 137.722 ms
Loss rate: 0.77%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-11-30 17:20:32

End at: 2017-11-30 17:21:02

Below is generated by plot.py at 2017-11-30 19:39:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 137.665 ms

Loss rate: 0.43%

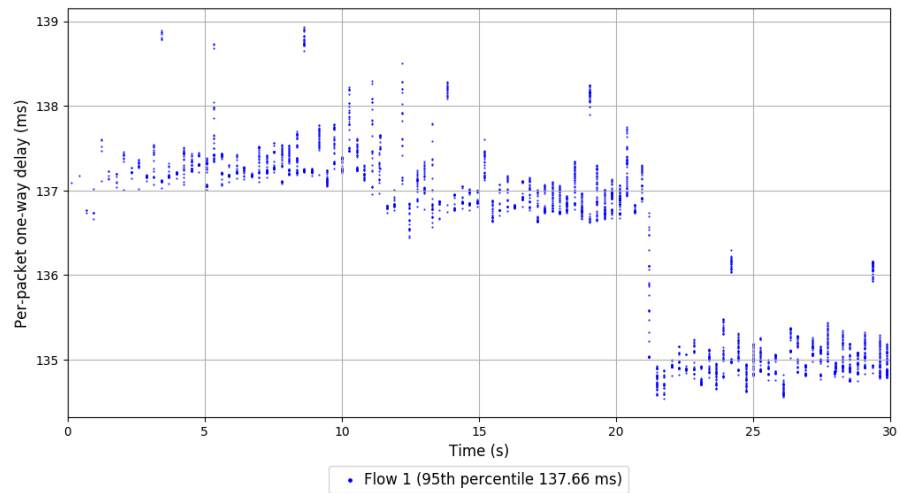
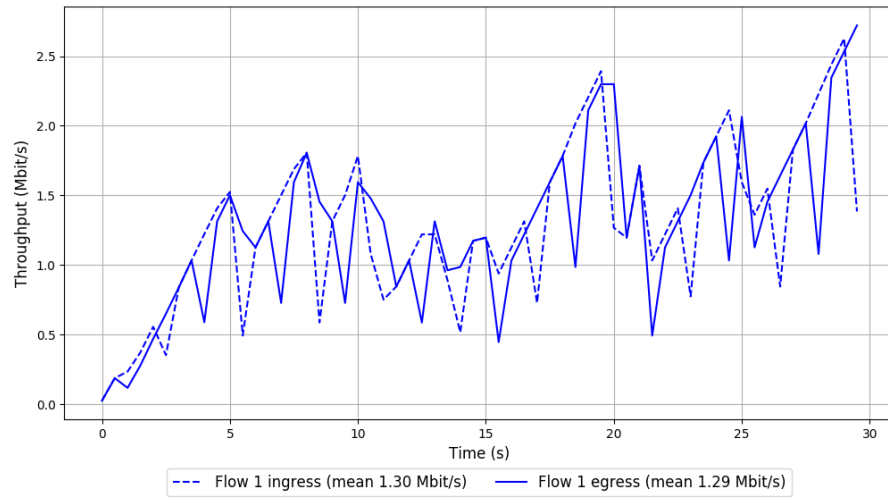
-- Flow 1:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 137.665 ms

Loss rate: 0.43%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-30 17:31:48

End at: 2017-11-30 17:32:18

Below is generated by plot.py at 2017-11-30 19:39:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 136.866 ms

Loss rate: 0.66%

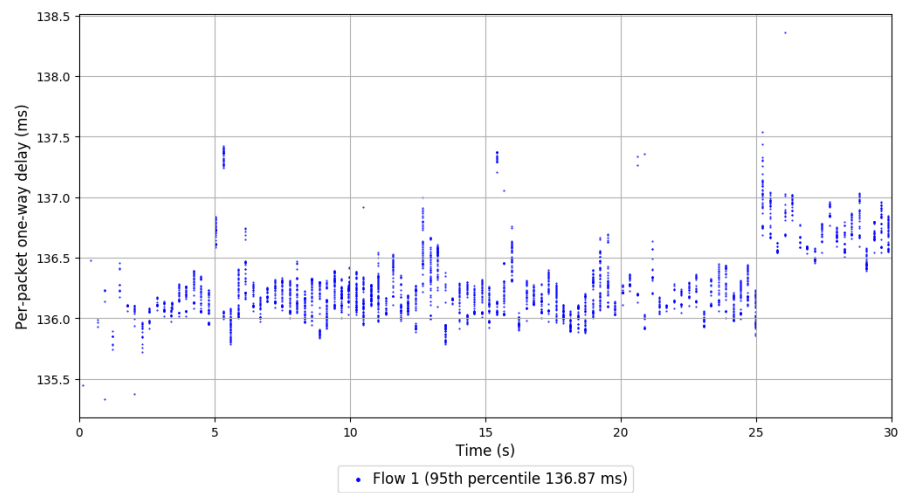
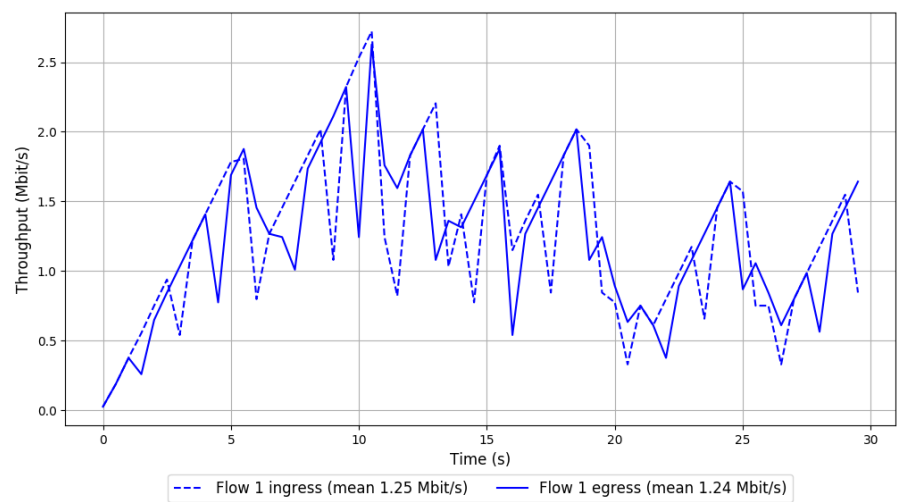
-- Flow 1:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 136.866 ms

Loss rate: 0.66%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-30 17:42:59

End at: 2017-11-30 17:43:29

Below is generated by plot.py at 2017-11-30 19:39:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.360 ms

Loss rate: 0.00%

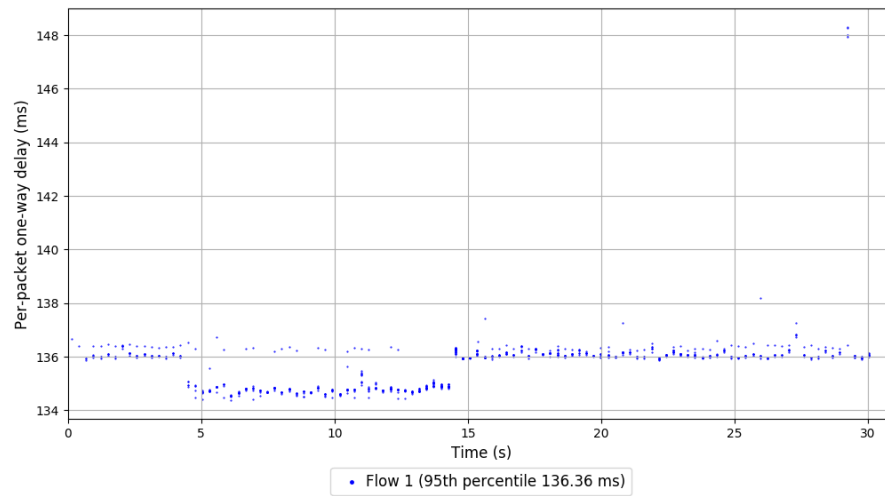
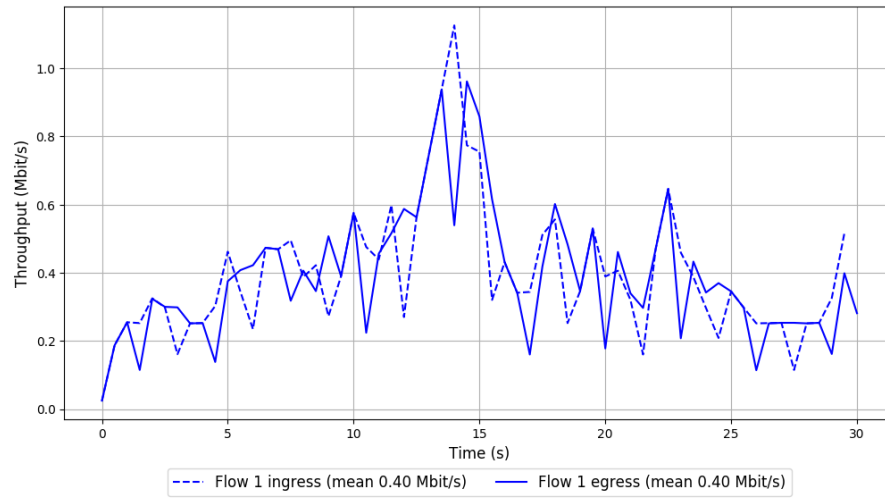
-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.360 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-30 17:53:51

End at: 2017-11-30 17:54:21

Below is generated by plot.py at 2017-11-30 19:39:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.90 Mbit/s

95th percentile per-packet one-way delay: 135.465 ms

Loss rate: 0.00%

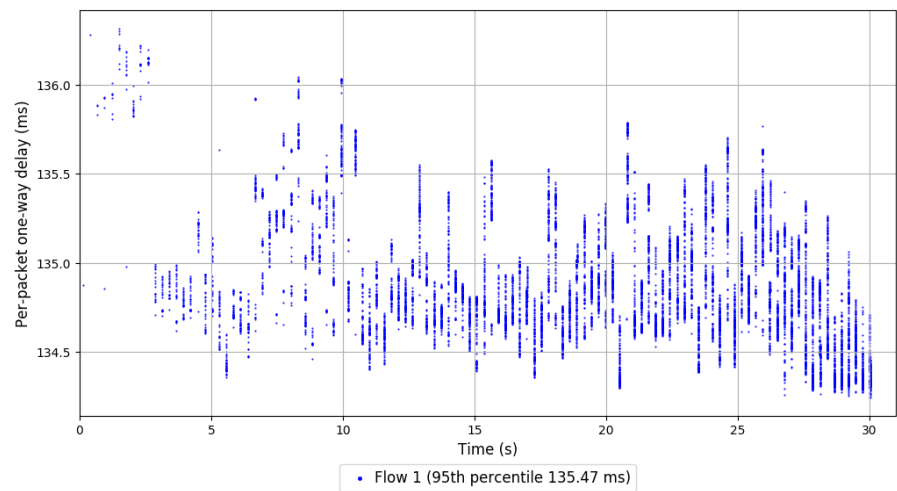
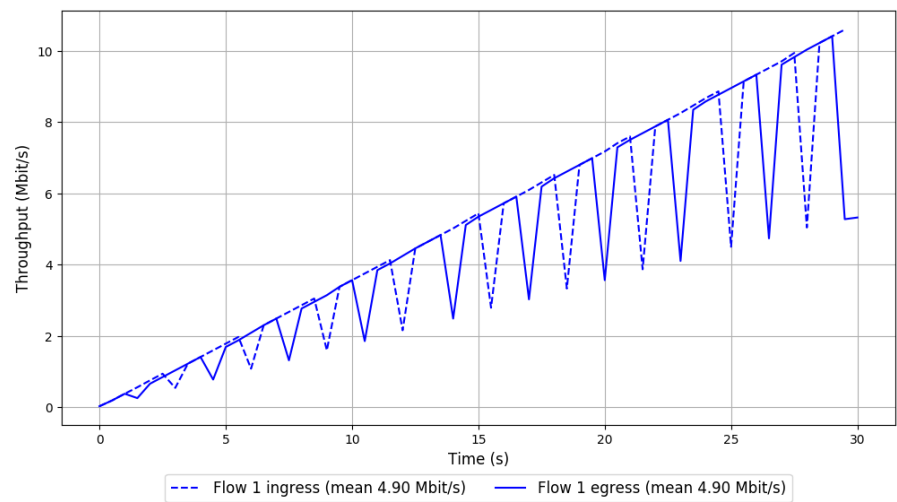
-- Flow 1:

Average throughput: 4.90 Mbit/s

95th percentile per-packet one-way delay: 135.465 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-30 18:04:37

End at: 2017-11-30 18:05:07

Below is generated by plot.py at 2017-11-30 19:39:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 136.927 ms

Loss rate: 0.11%

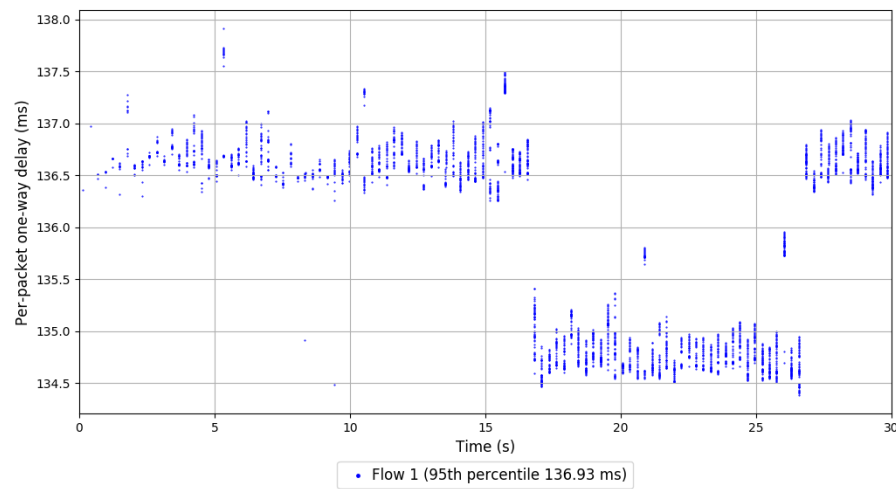
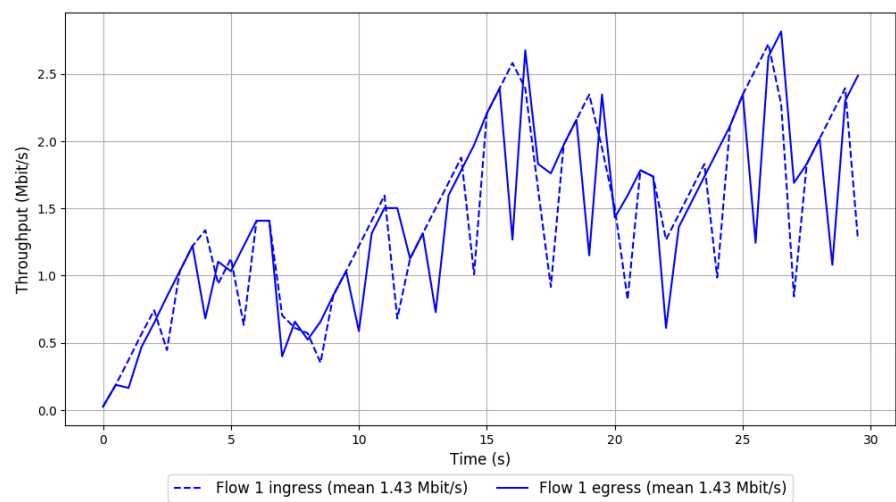
-- Flow 1:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 136.927 ms

Loss rate: 0.11%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-30 18:15:30

End at: 2017-11-30 18:16:00

Below is generated by plot.py at 2017-11-30 19:39:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.51 Mbit/s

95th percentile per-packet one-way delay: 136.891 ms

Loss rate: 0.00%

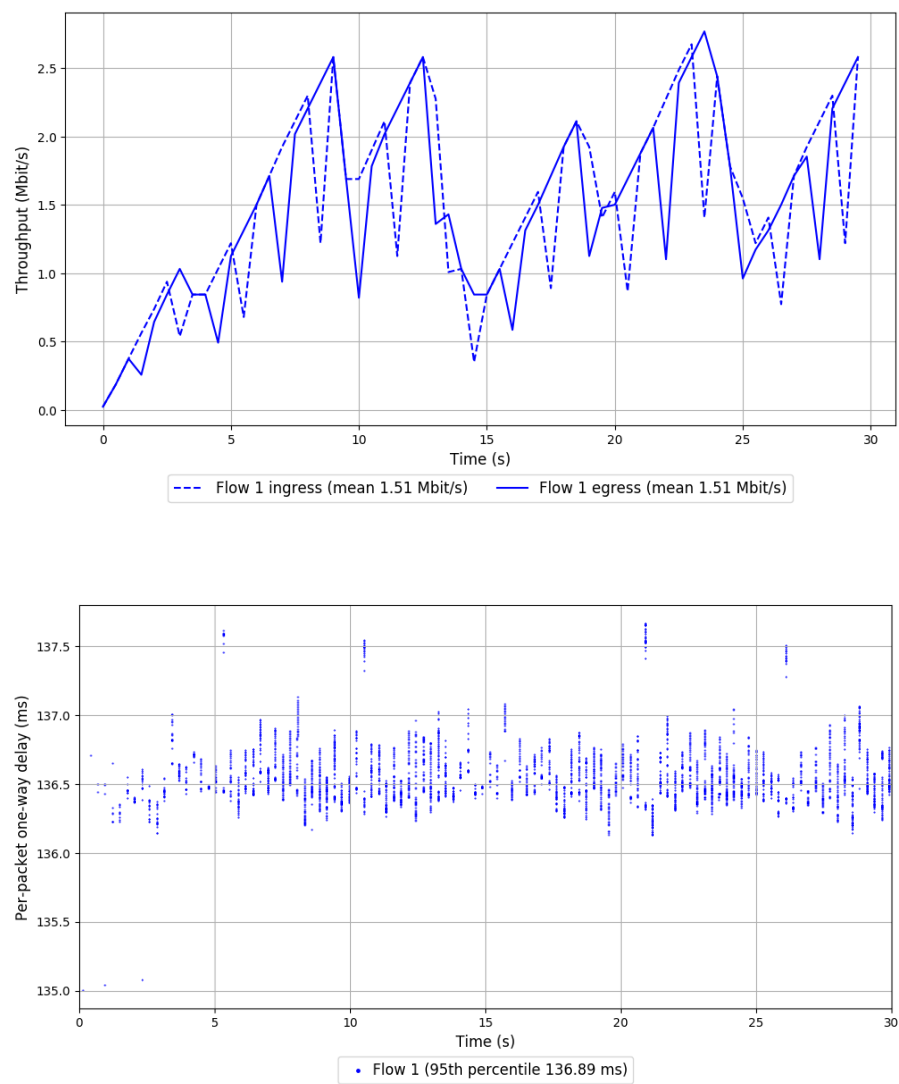
-- Flow 1:

Average throughput: 1.51 Mbit/s

95th percentile per-packet one-way delay: 136.891 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-30 18:26:39

End at: 2017-11-30 18:27:09

Below is generated by plot.py at 2017-11-30 19:39:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 137.391 ms

Loss rate: 0.00%

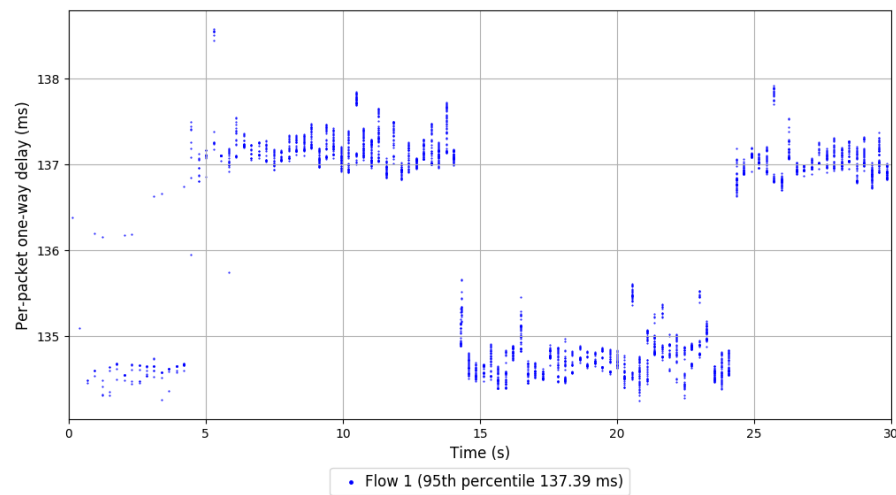
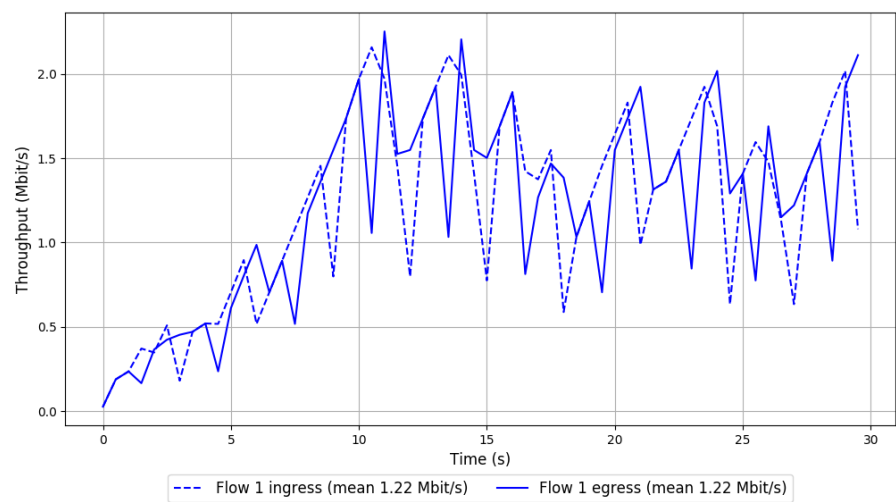
-- Flow 1:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 137.391 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-30 18:38:01

End at: 2017-11-30 18:38:31

Below is generated by plot.py at 2017-11-30 19:39:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 137.374 ms

Loss rate: 0.00%

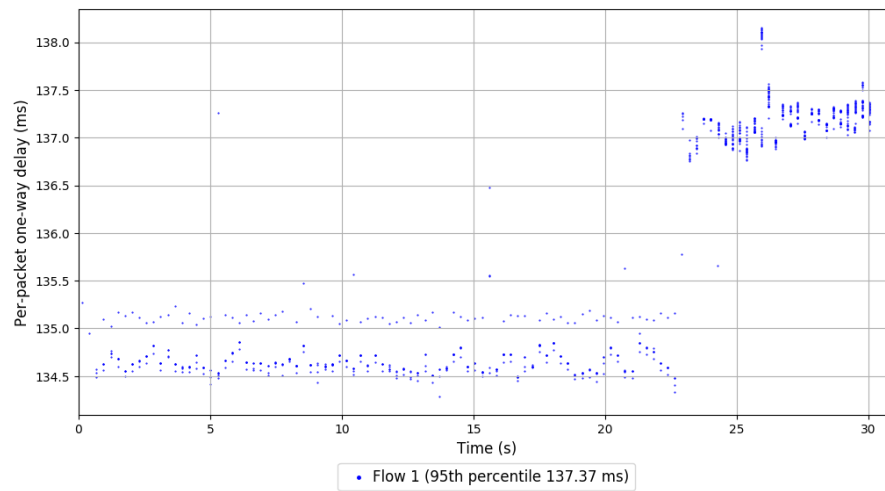
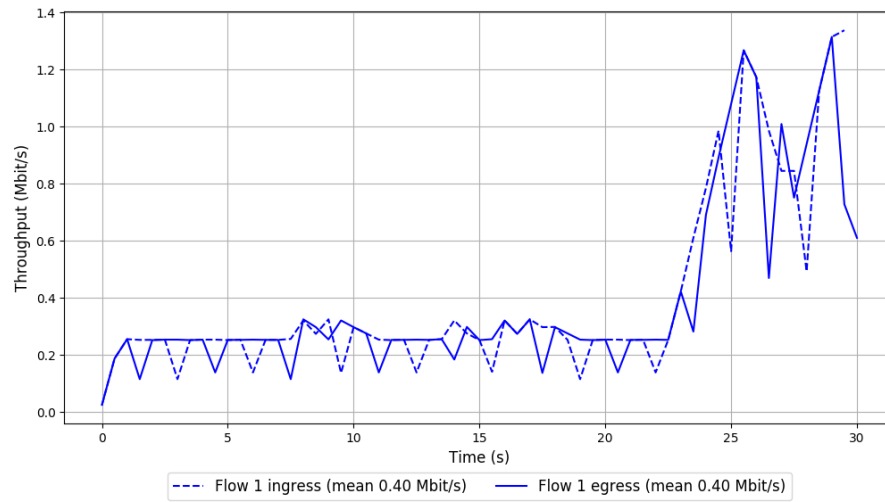
-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 137.374 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-30 18:49:41

End at: 2017-11-30 18:50:11

Below is generated by plot.py at 2017-11-30 19:39:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.49 Mbit/s

95th percentile per-packet one-way delay: 137.411 ms

Loss rate: 0.00%

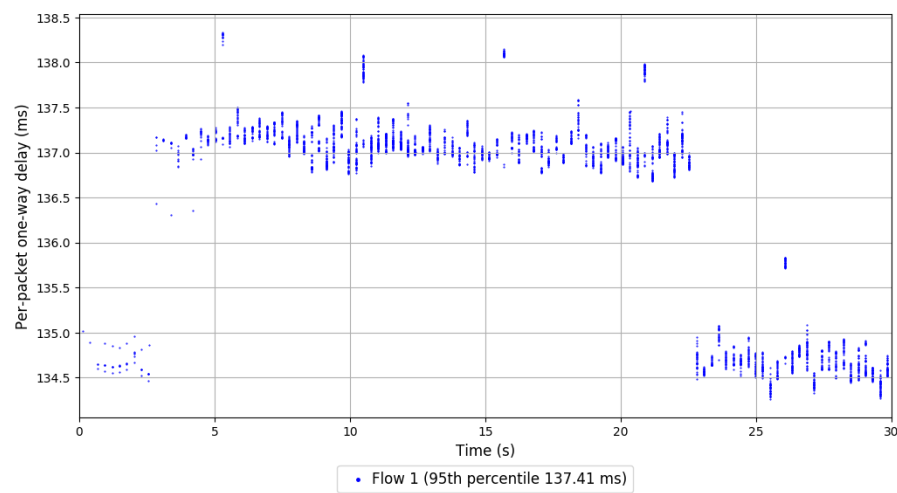
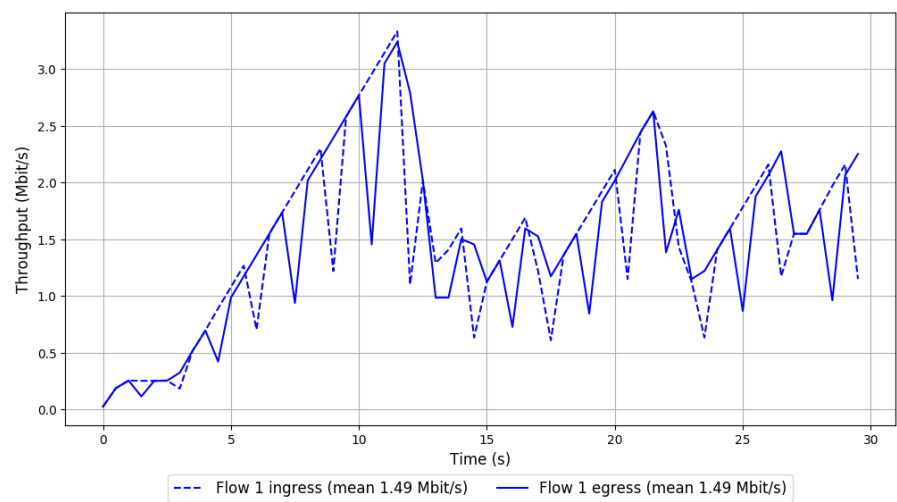
-- Flow 1:

Average throughput: 1.49 Mbit/s

95th percentile per-packet one-way delay: 137.411 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

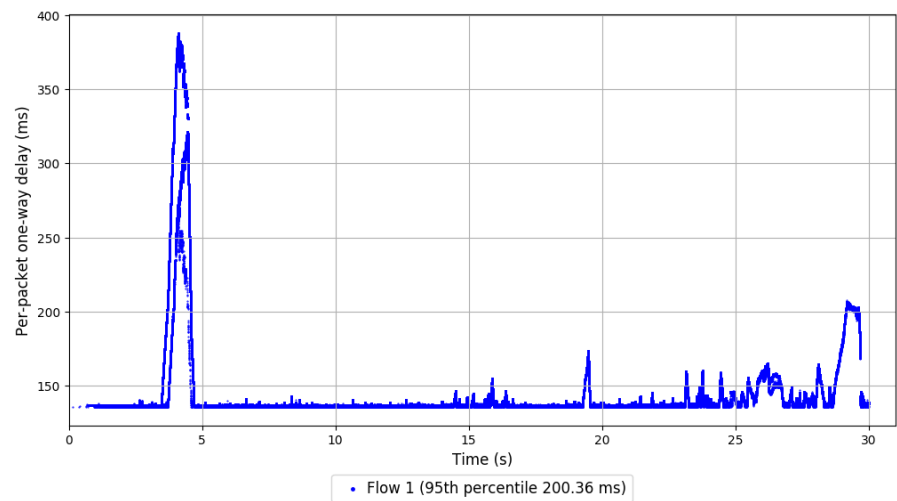
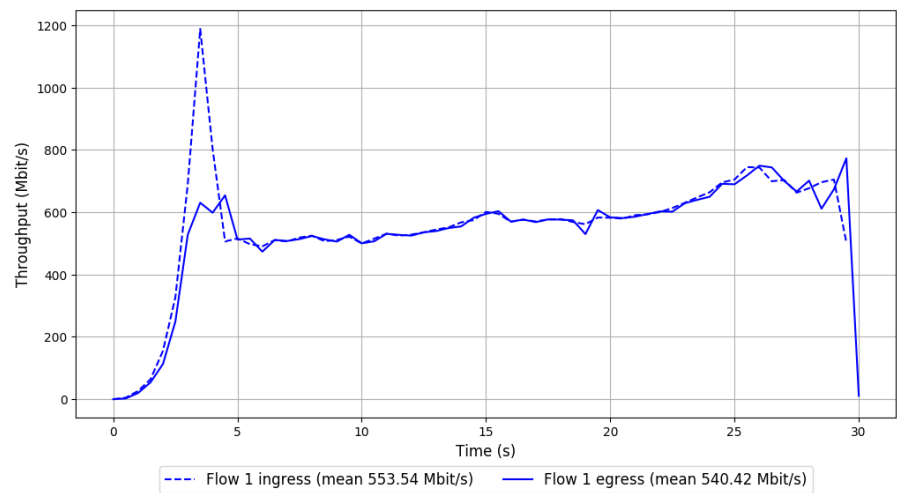


```
Run 1: Statistics of PCC

Start at: 2017-11-30 17:10:01
End at: 2017-11-30 17:10:31

# Below is generated by plot.py at 2017-11-30 19:48:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 540.42 Mbit/s
95th percentile per-packet one-way delay: 200.356 ms
Loss rate: 2.36%
-- Flow 1:
Average throughput: 540.42 Mbit/s
95th percentile per-packet one-way delay: 200.356 ms
Loss rate: 2.36%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-11-30 17:21:15

End at: 2017-11-30 17:21:45

Below is generated by plot.py at 2017-11-30 19:48:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 539.85 Mbit/s

95th percentile per-packet one-way delay: 206.401 ms

Loss rate: 1.87%

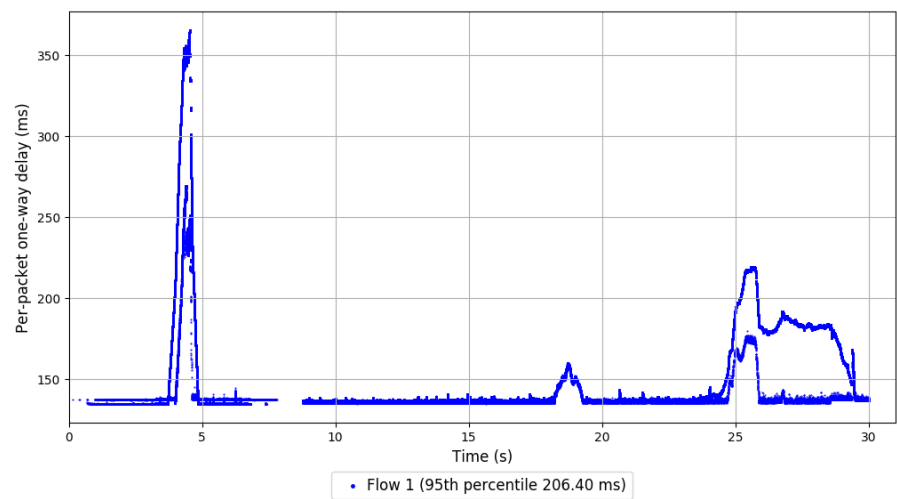
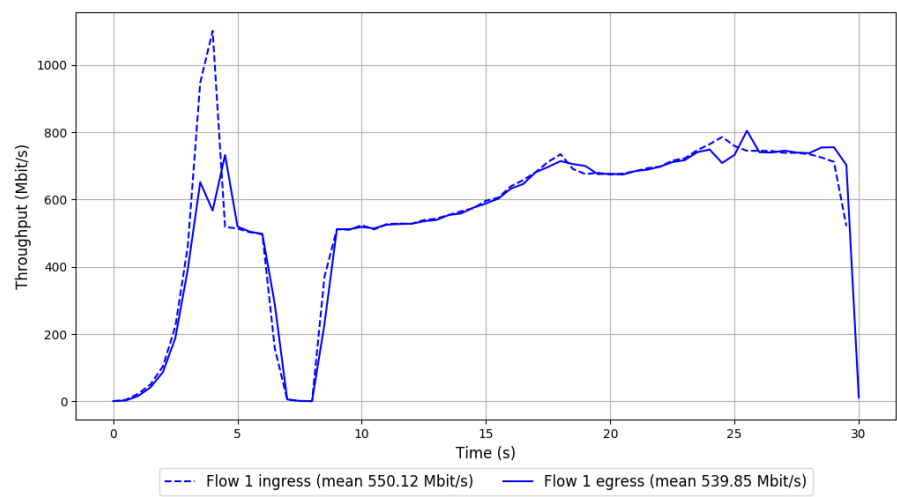
-- Flow 1:

Average throughput: 539.85 Mbit/s

95th percentile per-packet one-way delay: 206.401 ms

Loss rate: 1.87%

Run 2: Report of PCC — Data Link

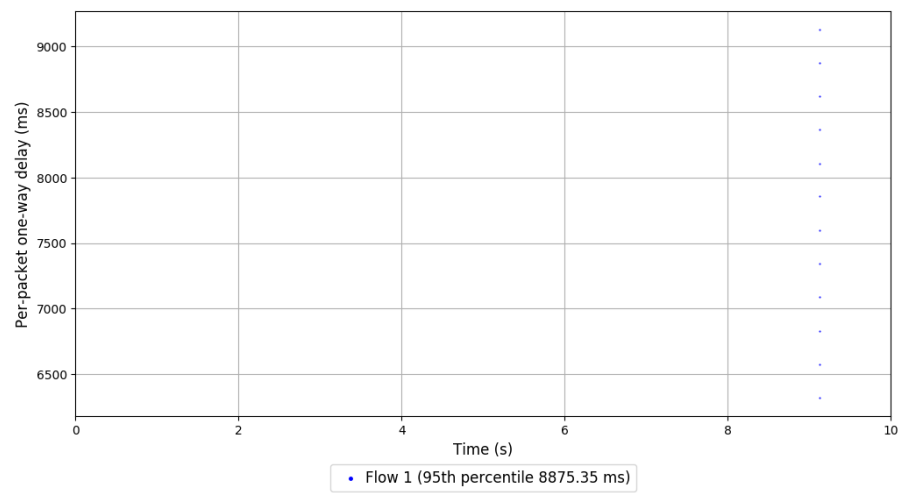
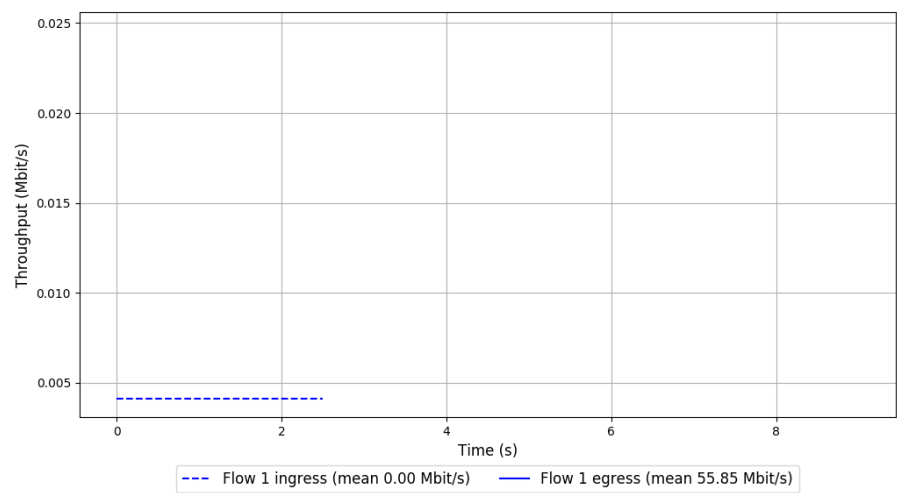


Run 3: Statistics of PCC

Start at: 2017-11-30 17:32:31

End at: 2017-11-30 17:33:01

Run 3: Report of PCC — Data Link

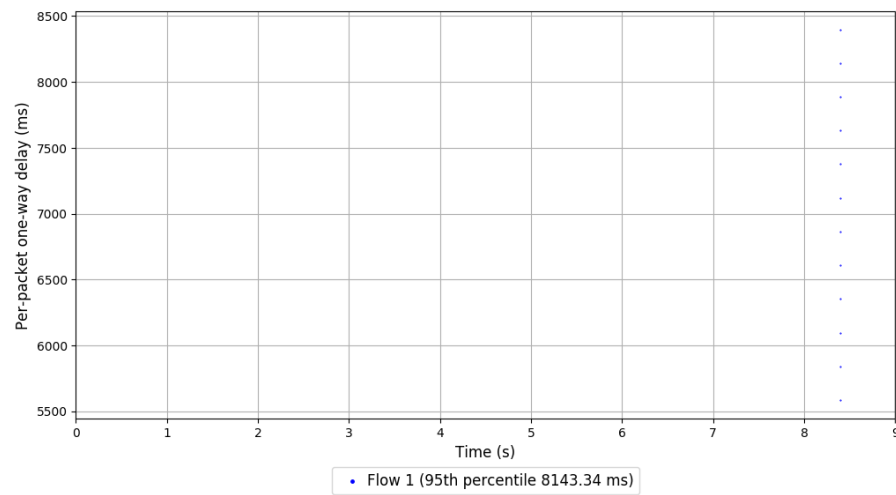
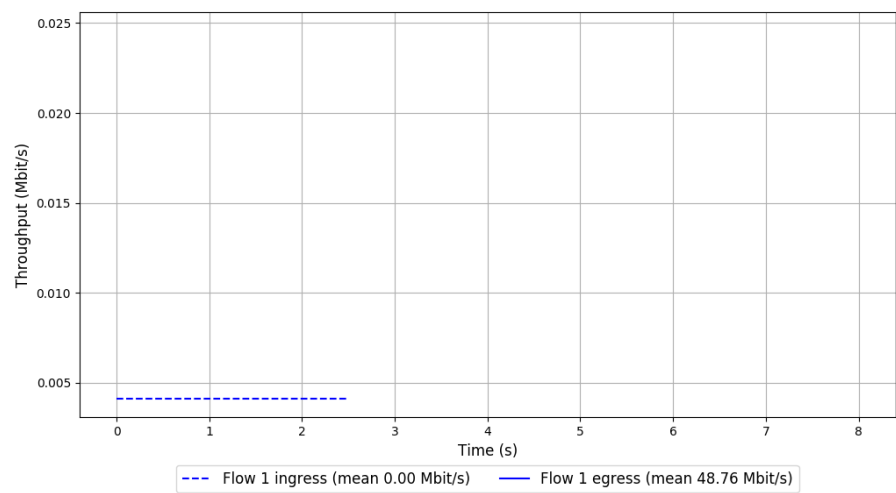


Run 4: Statistics of PCC

Start at: 2017-11-30 17:43:41

End at: 2017-11-30 17:44:11

Run 4: Report of PCC — Data Link

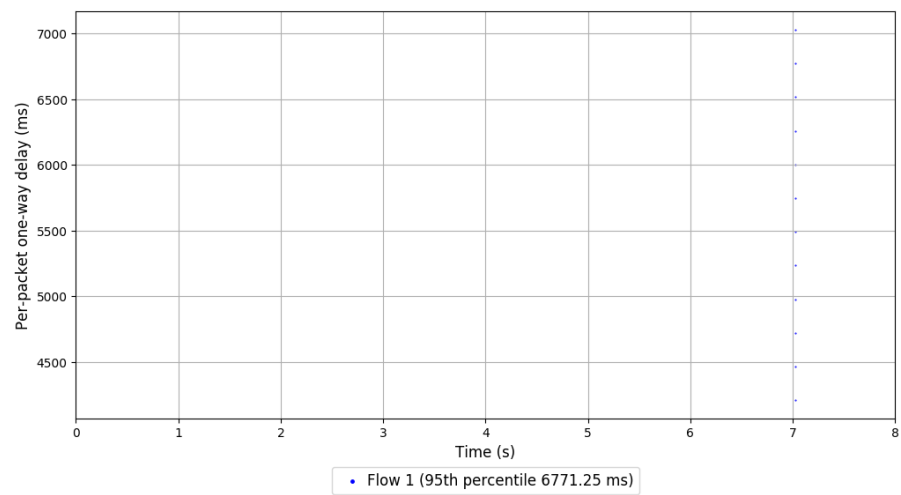
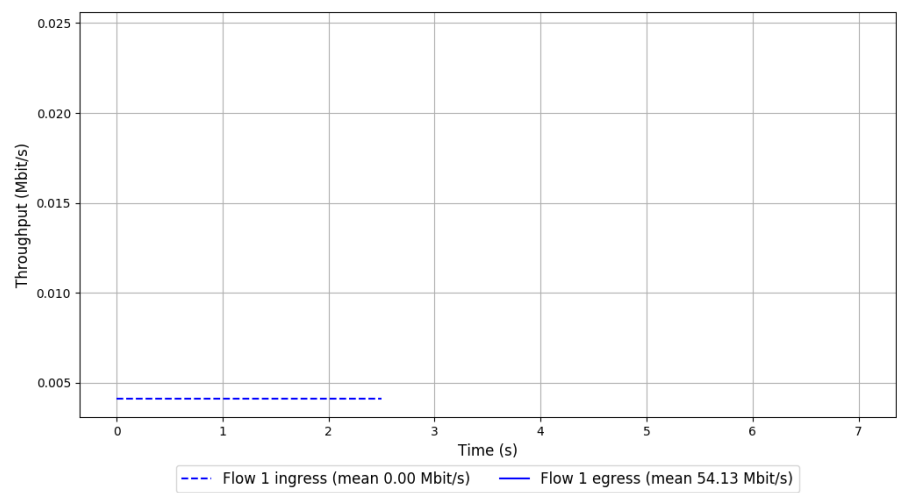


Run 5: Statistics of PCC

Start at: 2017-11-30 17:54:34

End at: 2017-11-30 17:55:04

Run 5: Report of PCC — Data Link

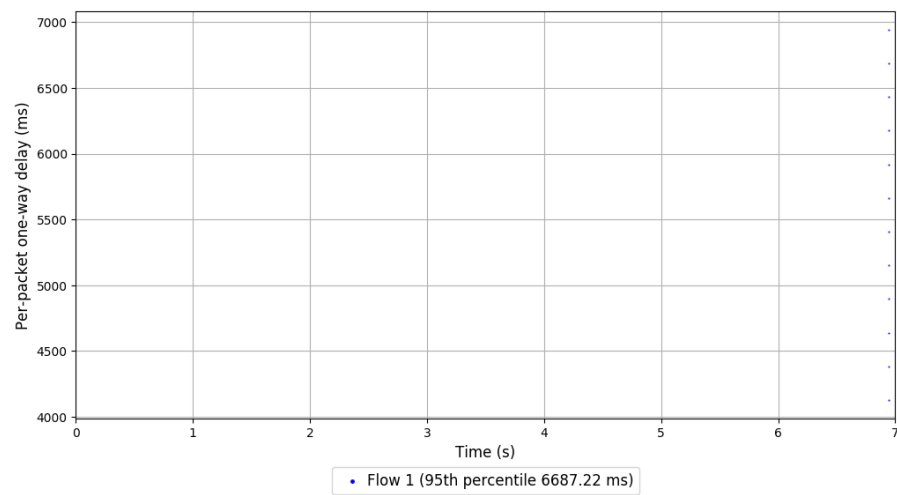
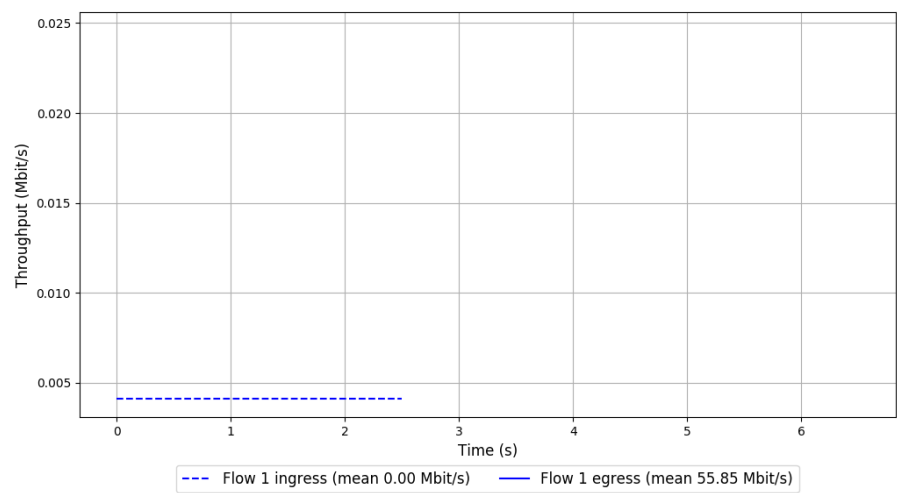


Run 6: Statistics of PCC

Start at: 2017-11-30 18:05:19

End at: 2017-11-30 18:05:49

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-30 18:16:12

End at: 2017-11-30 18:16:42

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 615.50 Mbit/s

95th percentile per-packet one-way delay: 148.716 ms

Loss rate: 0.95%

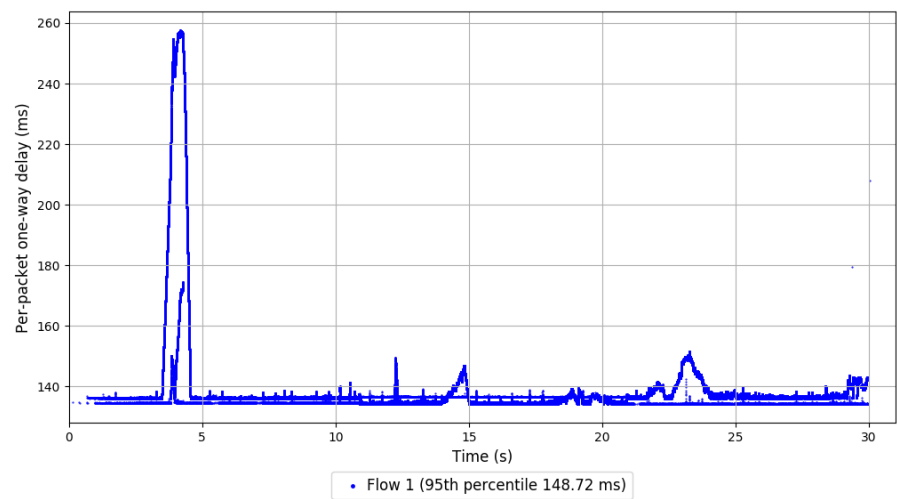
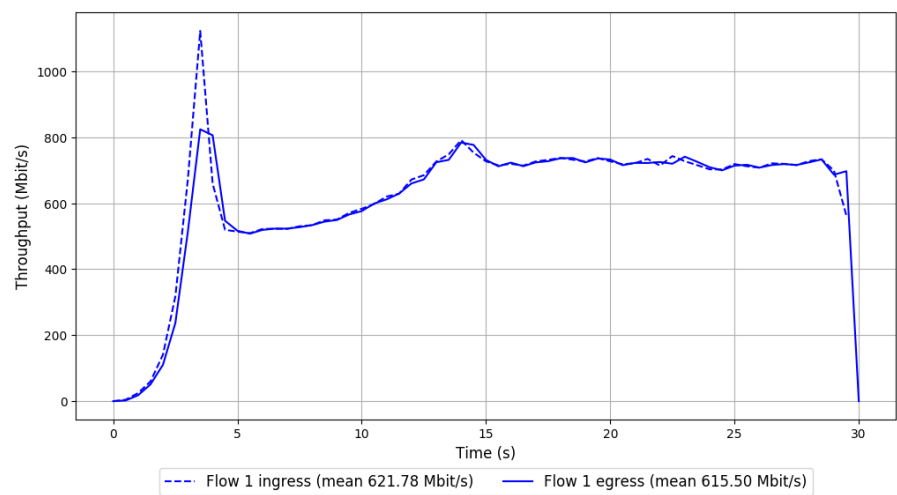
-- Flow 1:

Average throughput: 615.50 Mbit/s

95th percentile per-packet one-way delay: 148.716 ms

Loss rate: 0.95%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-30 18:27:22

End at: 2017-11-30 18:27:52

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 536.02 Mbit/s

95th percentile per-packet one-way delay: 161.239 ms

Loss rate: 0.79%

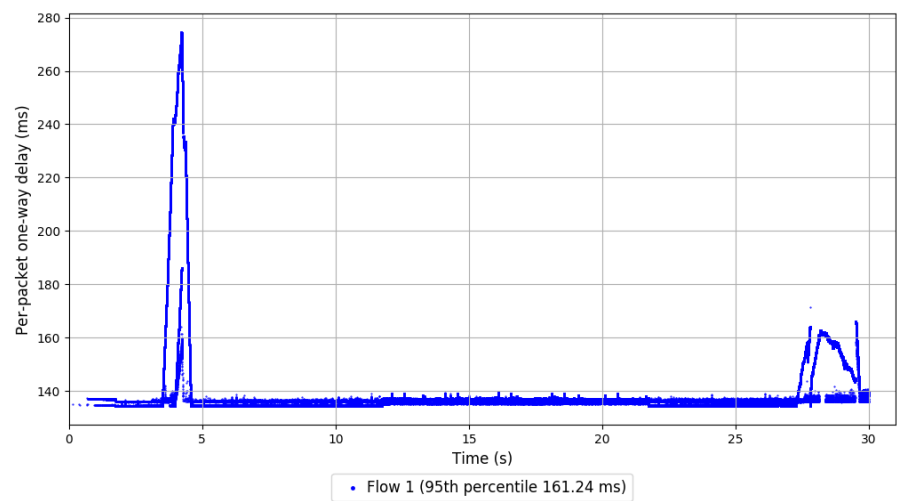
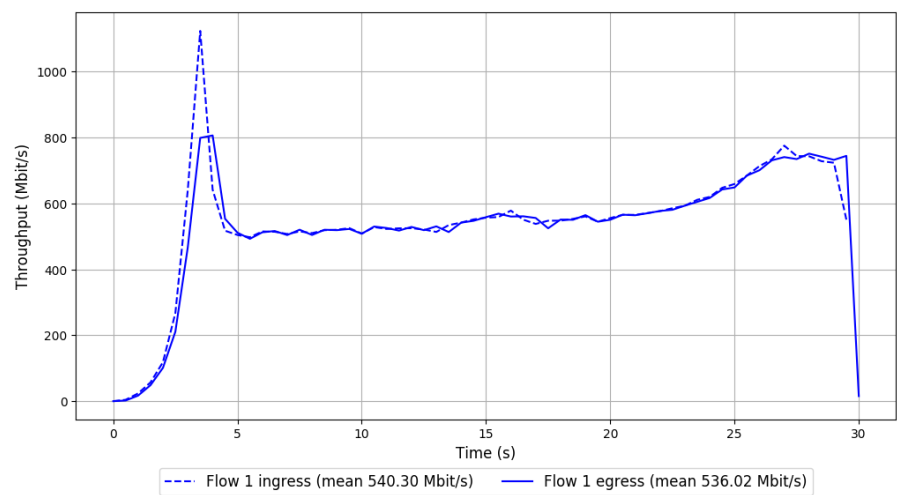
-- Flow 1:

Average throughput: 536.02 Mbit/s

95th percentile per-packet one-way delay: 161.239 ms

Loss rate: 0.79%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-11-30 18:38:43

End at: 2017-11-30 18:39:13

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 594.38 Mbit/s

95th percentile per-packet one-way delay: 204.561 ms

Loss rate: 1.02%

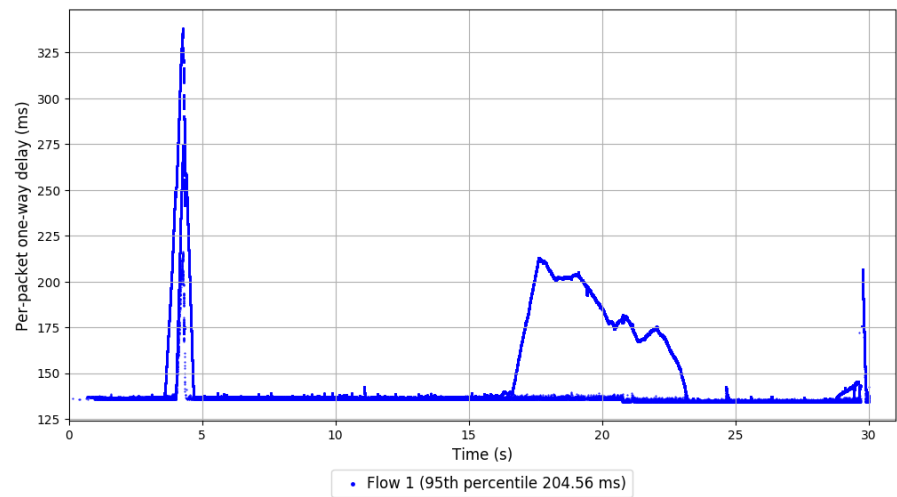
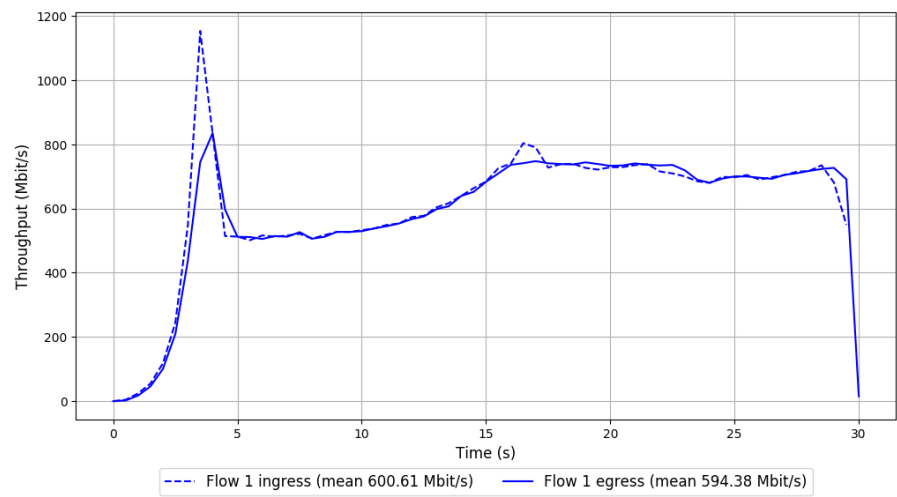
-- Flow 1:

Average throughput: 594.38 Mbit/s

95th percentile per-packet one-way delay: 204.561 ms

Loss rate: 1.02%

Run 9: Report of PCC — Data Link

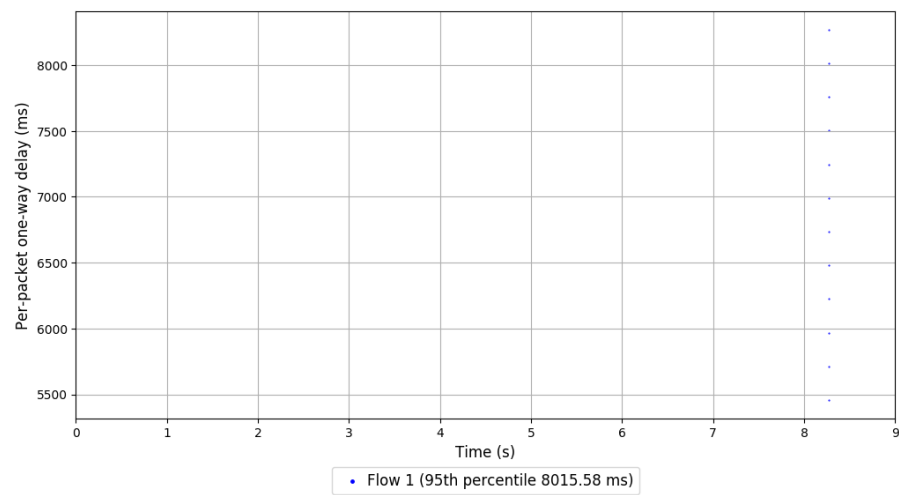
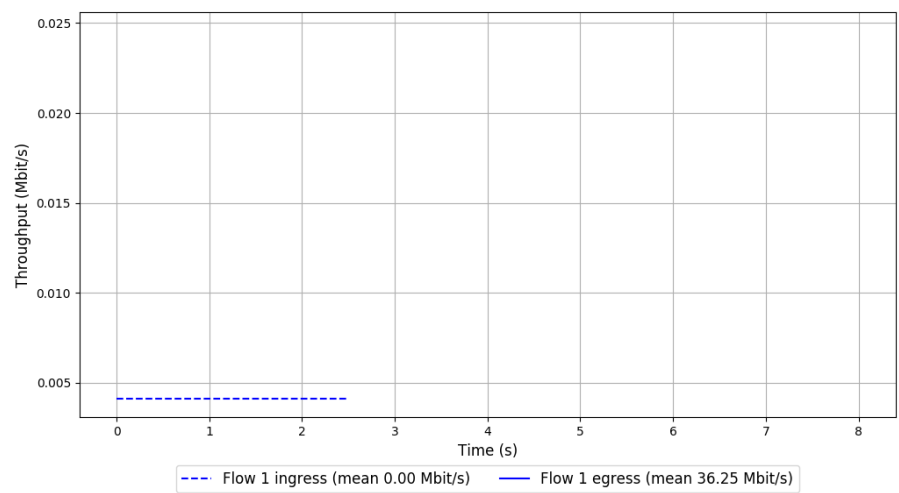


Run 10: Statistics of PCC

Start at: 2017-11-30 18:50:23

End at: 2017-11-30 18:50:53

Run 10: Report of PCC — Data Link

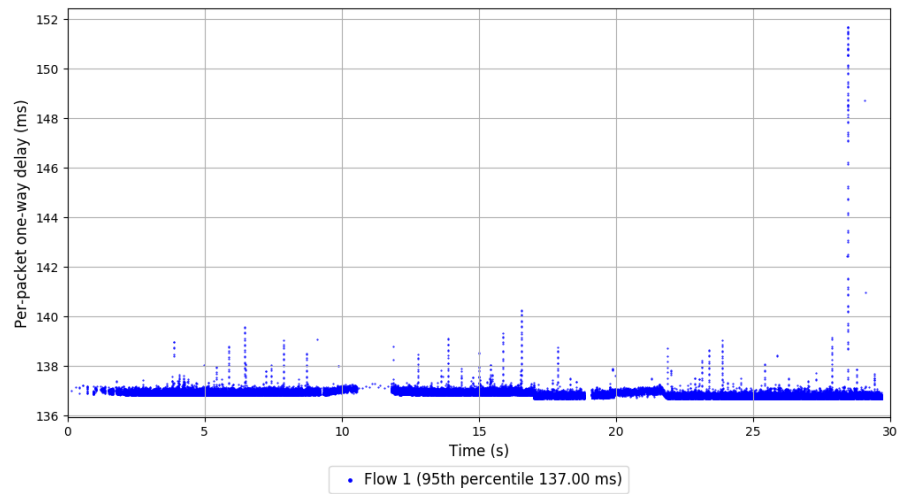
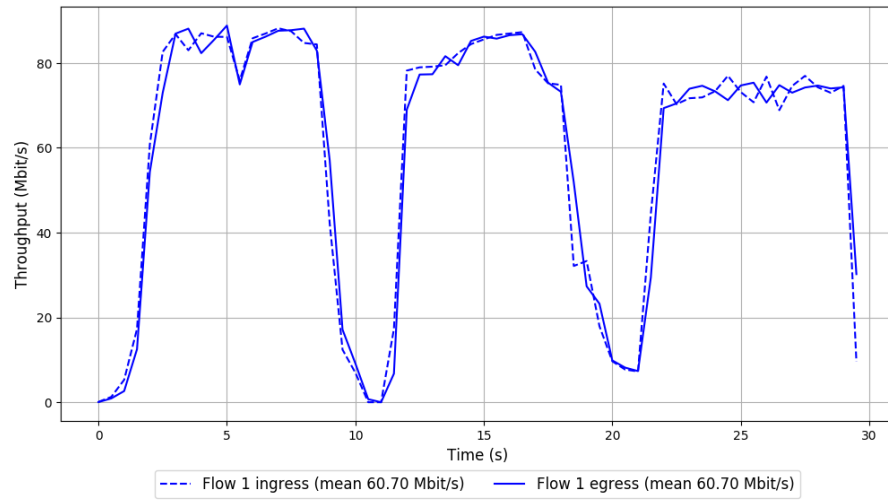


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-30 17:15:46
End at: 2017-11-30 17:16:16

# Below is generated by plot.py at 2017-11-30 19:50:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.70 Mbit/s
95th percentile per-packet one-way delay: 136.998 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.70 Mbit/s
95th percentile per-packet one-way delay: 136.998 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-11-30 17:27:01

End at: 2017-11-30 17:27:31

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.00 Mbit/s

95th percentile per-packet one-way delay: 136.238 ms

Loss rate: 0.00%

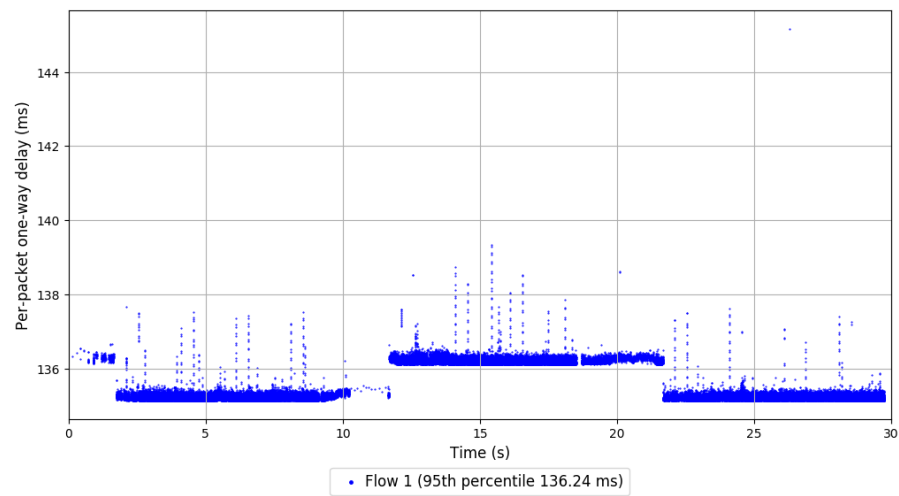
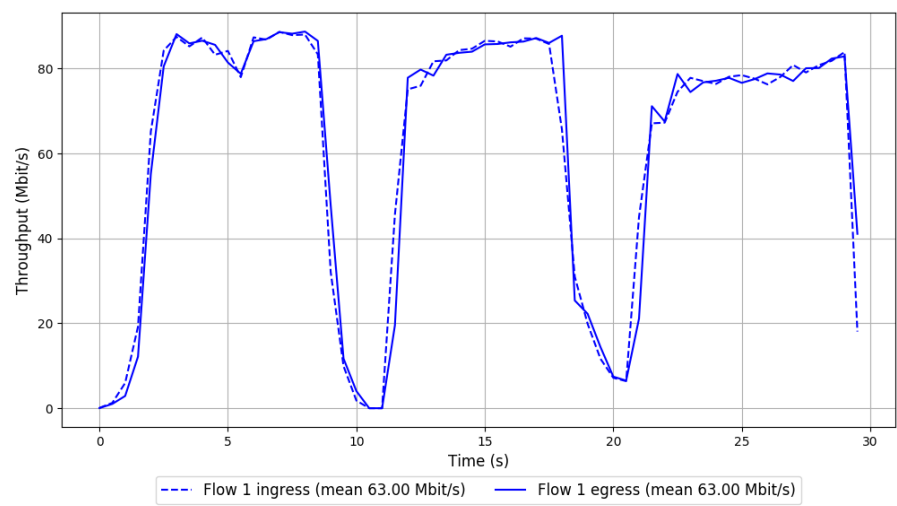
-- Flow 1:

Average throughput: 63.00 Mbit/s

95th percentile per-packet one-way delay: 136.238 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-30 17:38:12

End at: 2017-11-30 17:38:42

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.68 Mbit/s

95th percentile per-packet one-way delay: 136.346 ms

Loss rate: 0.00%

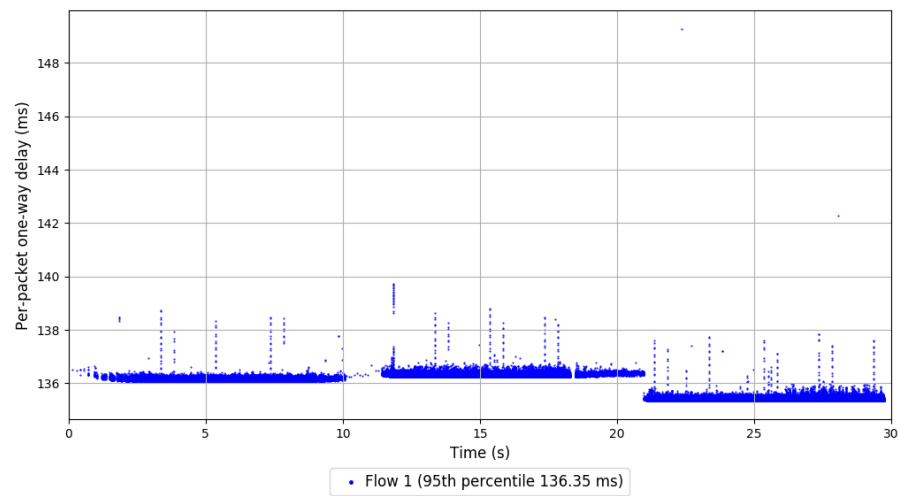
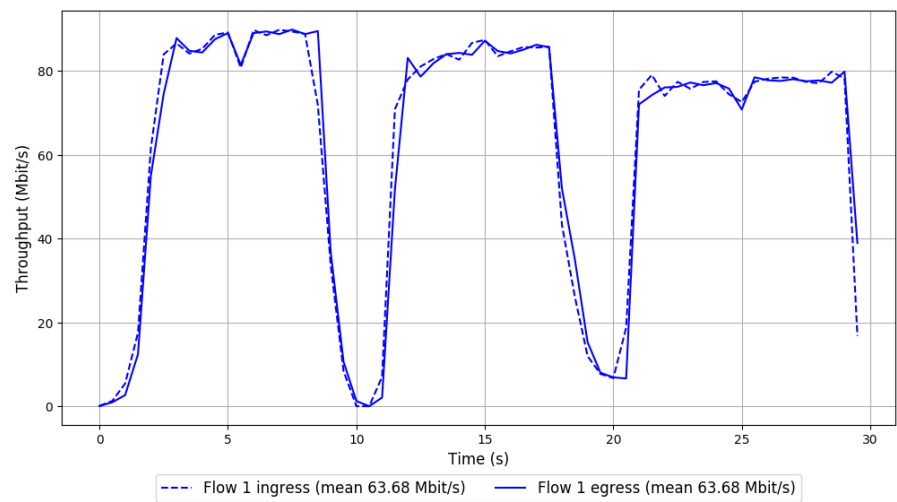
-- Flow 1:

Average throughput: 63.68 Mbit/s

95th percentile per-packet one-way delay: 136.346 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-30 17:49:04

End at: 2017-11-30 17:49:34

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.48 Mbit/s

95th percentile per-packet one-way delay: 135.948 ms

Loss rate: 0.00%

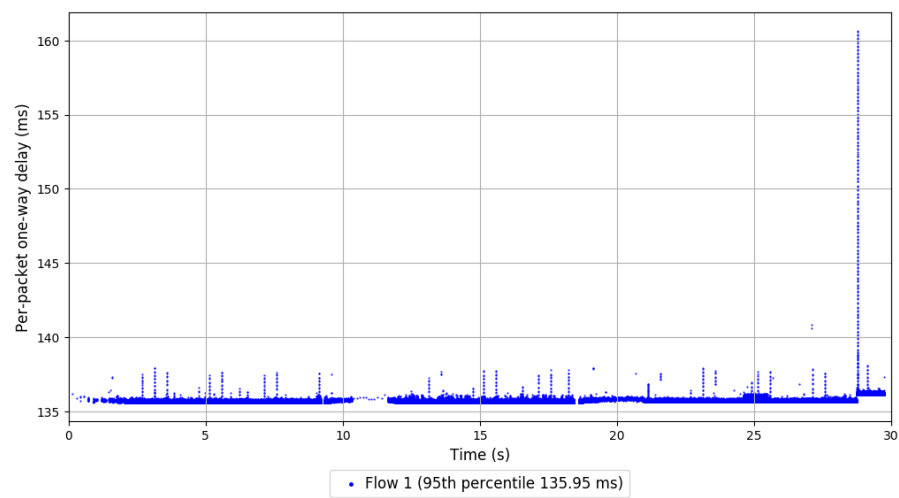
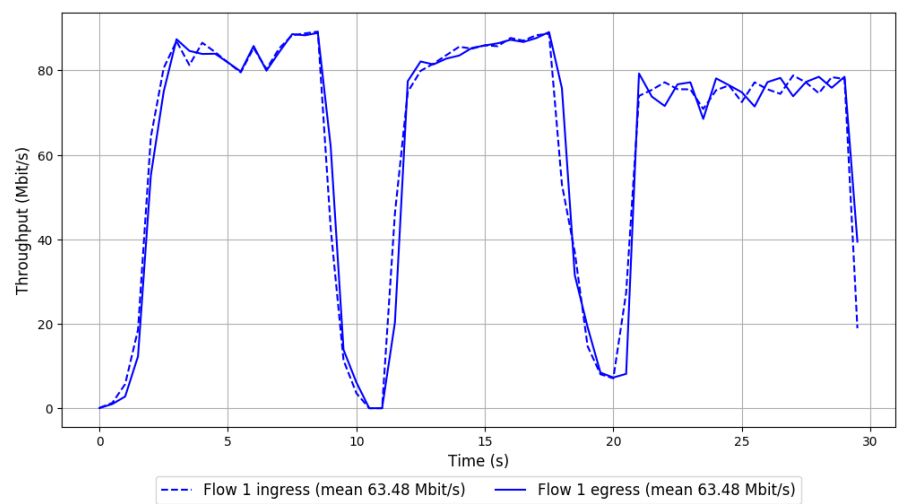
-- Flow 1:

Average throughput: 63.48 Mbit/s

95th percentile per-packet one-way delay: 135.948 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-30 17:59:50

End at: 2017-11-30 18:00:21

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.82 Mbit/s

95th percentile per-packet one-way delay: 136.199 ms

Loss rate: 0.00%

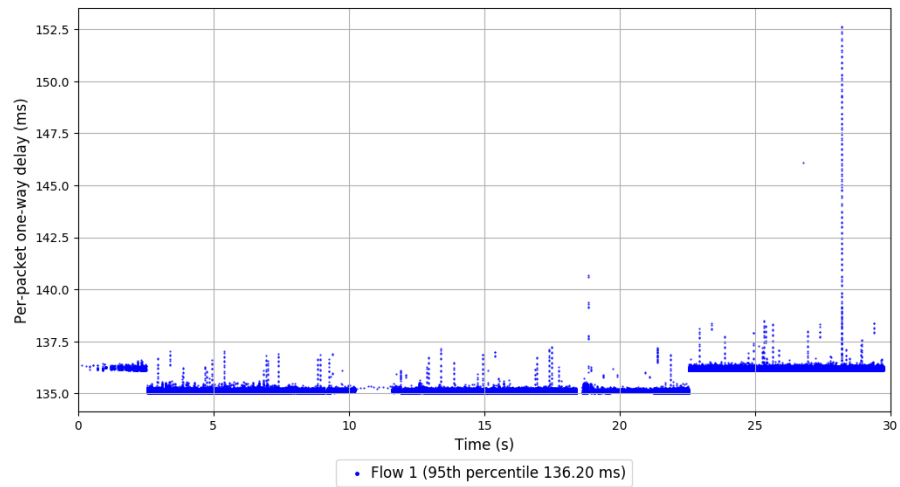
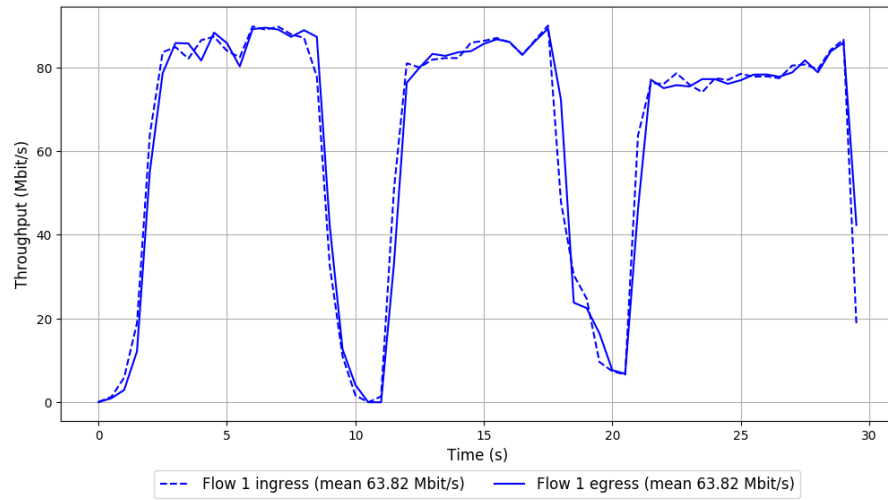
-- Flow 1:

Average throughput: 63.82 Mbit/s

95th percentile per-packet one-way delay: 136.199 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-30 18:10:44

End at: 2017-11-30 18:11:14

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.30 Mbit/s

95th percentile per-packet one-way delay: 136.213 ms

Loss rate: 0.00%

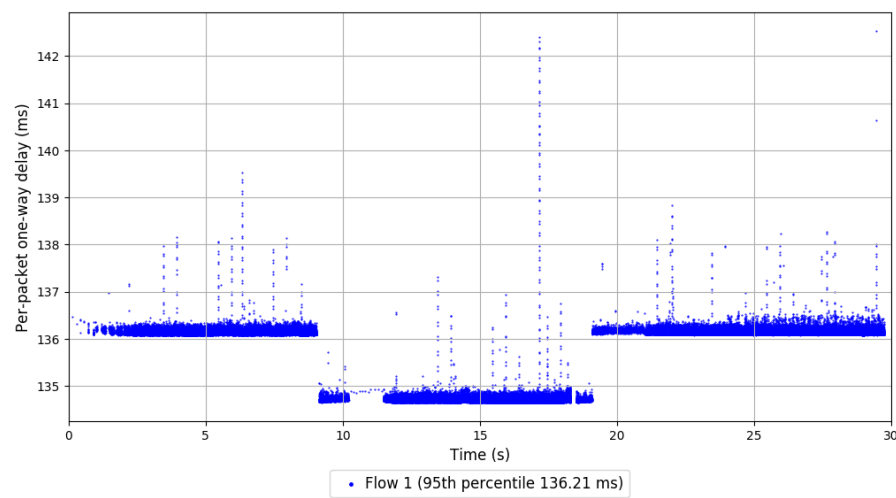
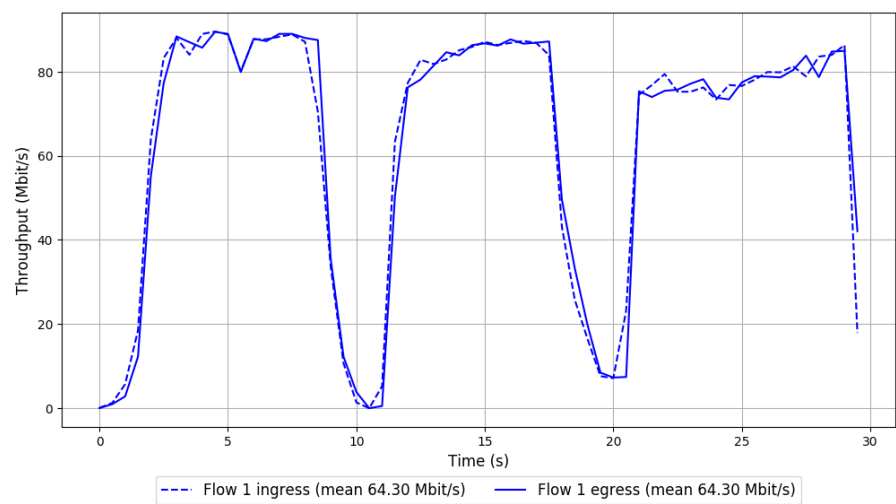
-- Flow 1:

Average throughput: 64.30 Mbit/s

95th percentile per-packet one-way delay: 136.213 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-30 18:21:53

End at: 2017-11-30 18:22:23

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.53 Mbit/s

95th percentile per-packet one-way delay: 136.216 ms

Loss rate: 0.00%

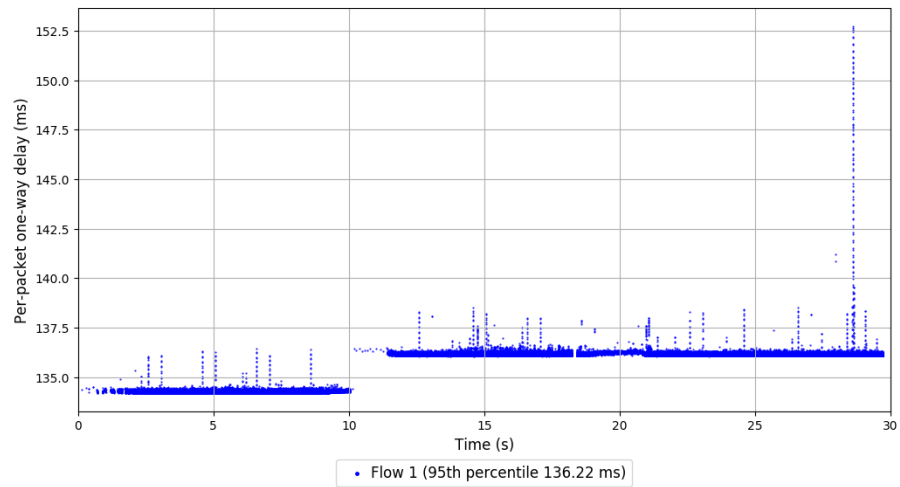
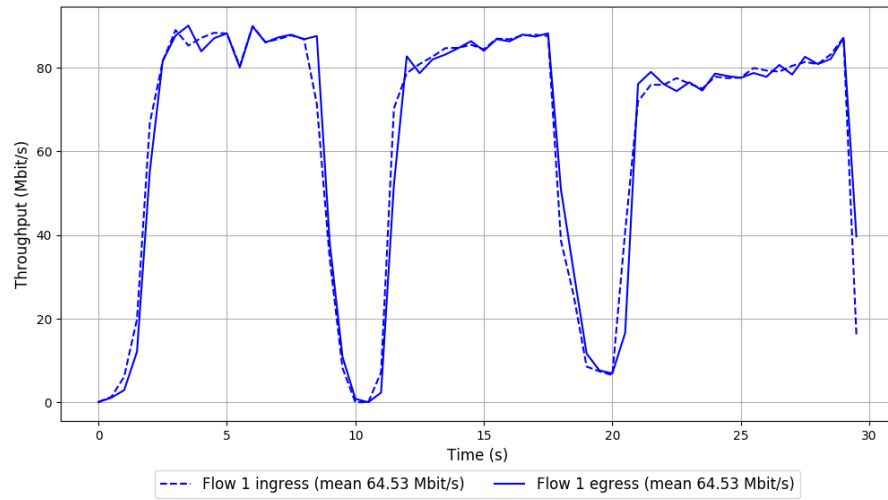
-- Flow 1:

Average throughput: 64.53 Mbit/s

95th percentile per-packet one-way delay: 136.216 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-30 18:33:14

End at: 2017-11-30 18:33:44

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.57 Mbit/s

95th percentile per-packet one-way delay: 136.631 ms

Loss rate: 0.00%

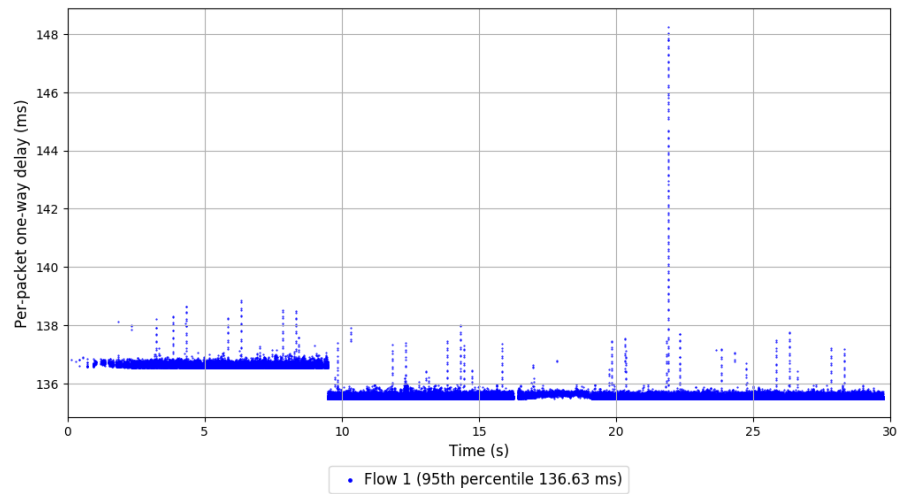
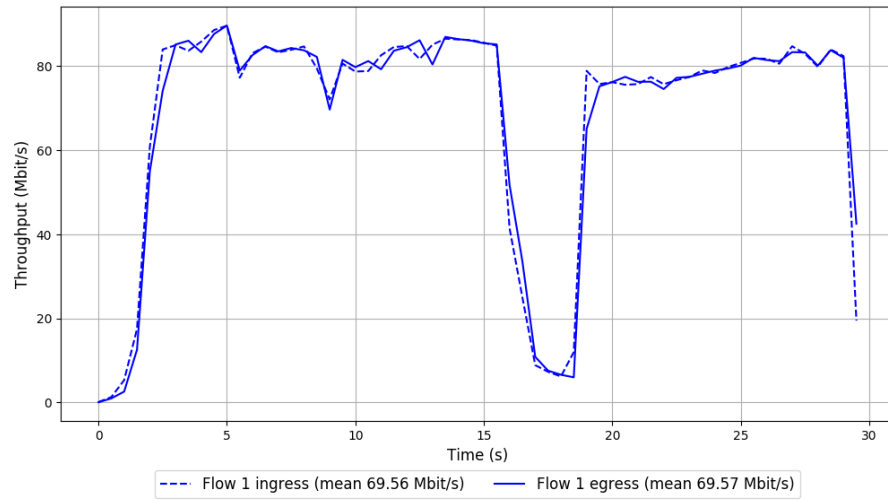
-- Flow 1:

Average throughput: 69.57 Mbit/s

95th percentile per-packet one-way delay: 136.631 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-30 18:44:54

End at: 2017-11-30 18:45:24

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.87 Mbit/s

95th percentile per-packet one-way delay: 136.197 ms

Loss rate: 0.00%

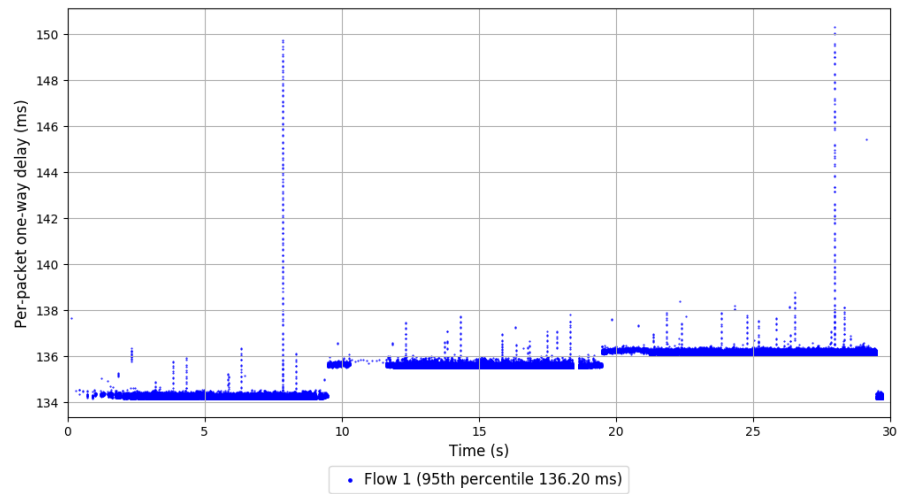
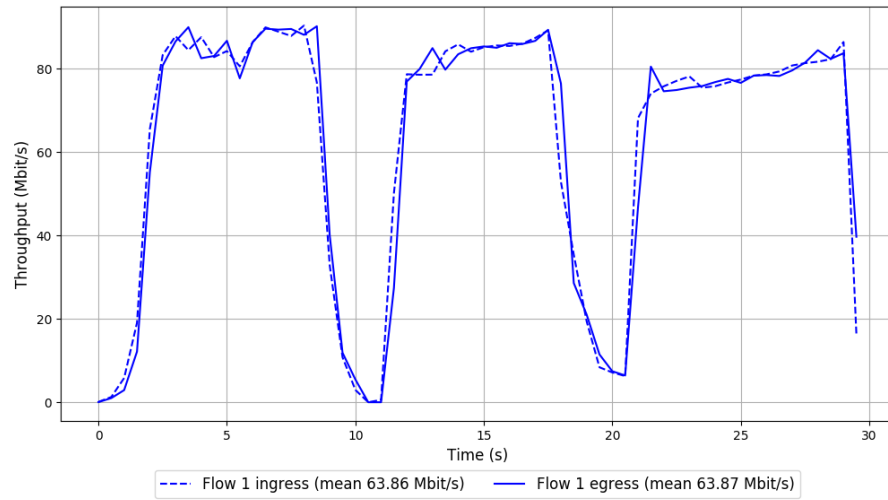
-- Flow 1:

Average throughput: 63.87 Mbit/s

95th percentile per-packet one-way delay: 136.197 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

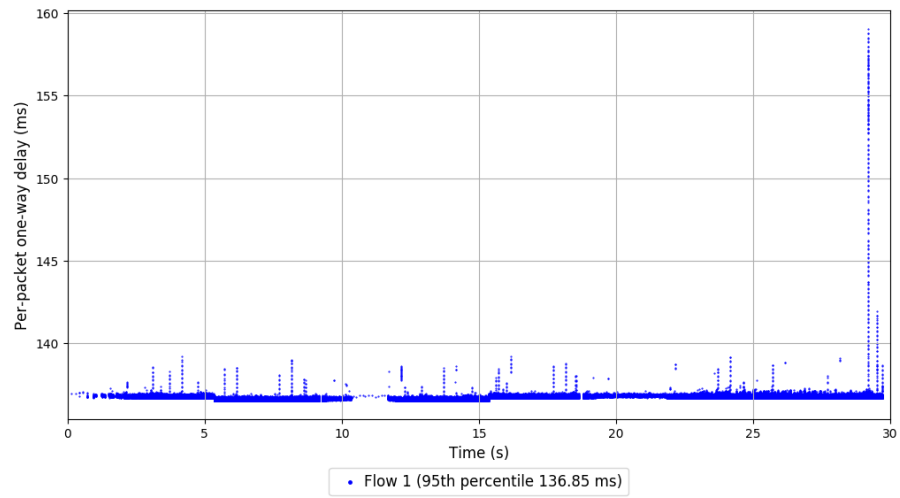
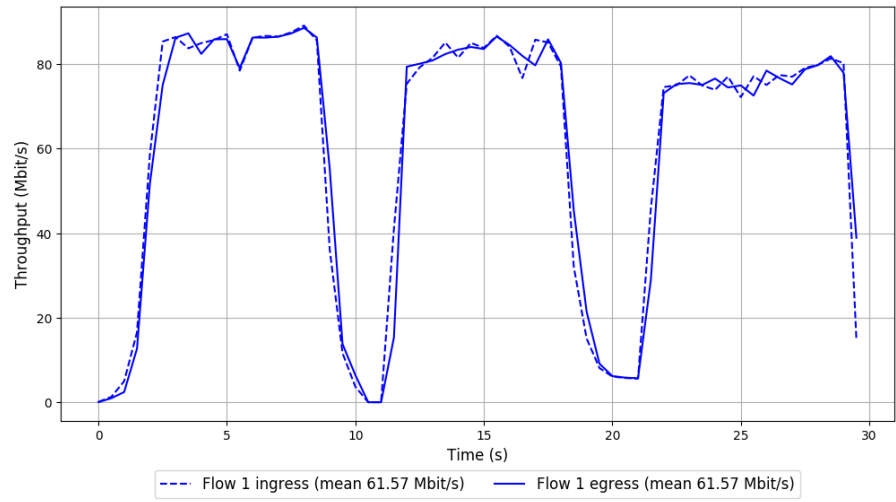


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-11-30 18:55:48
End at: 2017-11-30 18:56:18

# Below is generated by plot.py at 2017-11-30 19:50:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.57 Mbit/s
95th percentile per-packet one-way delay: 136.854 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.57 Mbit/s
95th percentile per-packet one-way delay: 136.854 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

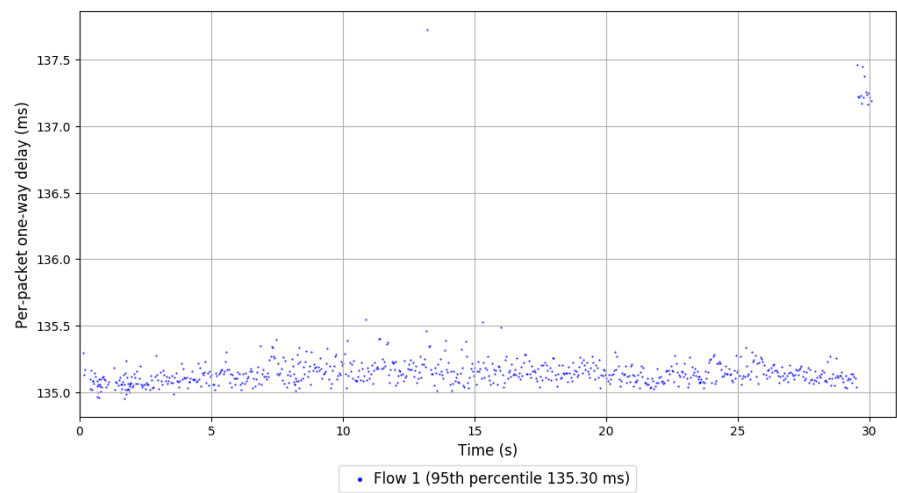
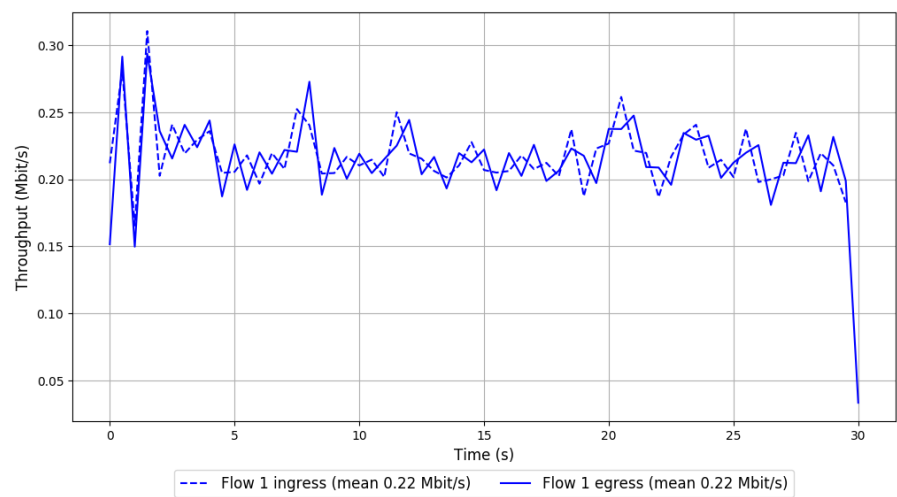


```
Run 1: Statistics of SCReAM

Start at: 2017-11-30 17:07:54
End at: 2017-11-30 17:08:24

# Below is generated by plot.py at 2017-11-30 19:50:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.303 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.303 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

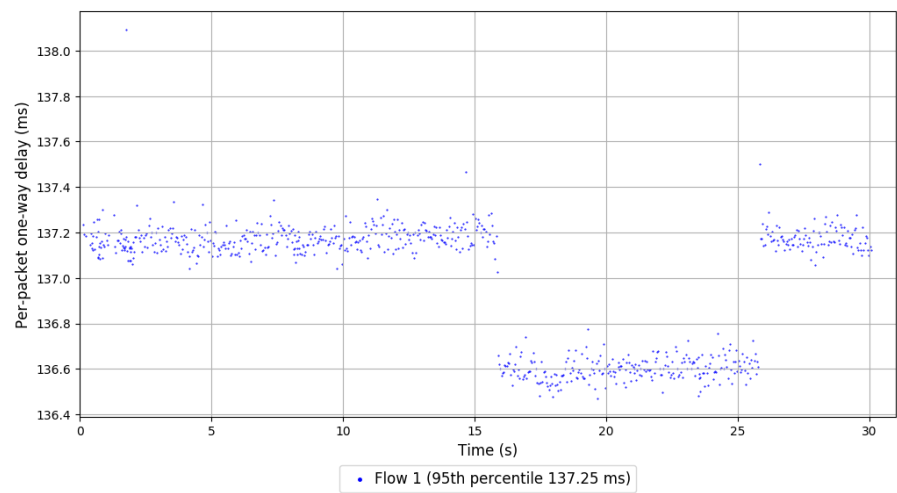
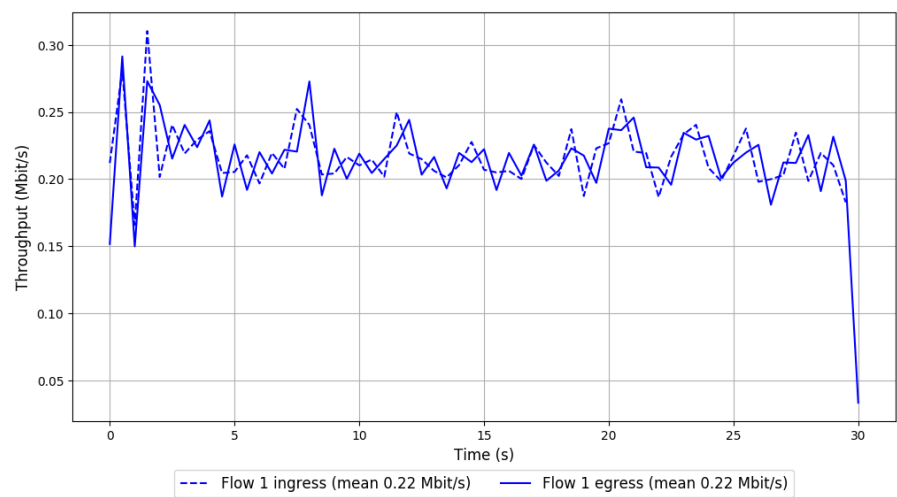


```
Run 2: Statistics of SCReAM

Start at: 2017-11-30 17:19:08
End at: 2017-11-30 17:19:38

# Below is generated by plot.py at 2017-11-30 19:50:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.245 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.245 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-11-30 17:30:24

End at: 2017-11-30 17:30:54

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.699 ms

Loss rate: 0.00%

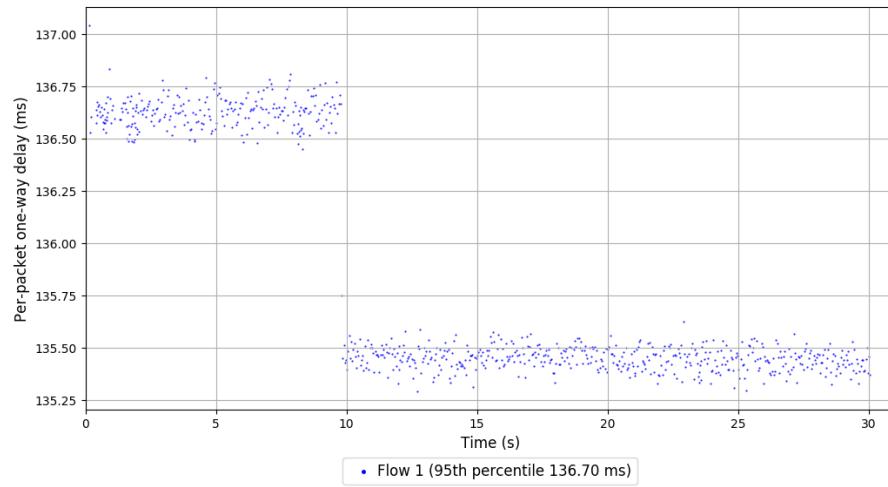
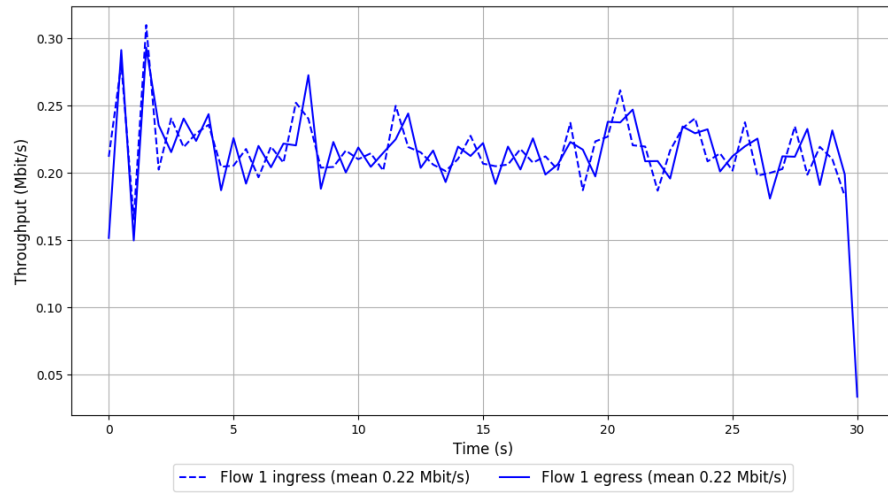
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.699 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-11-30 17:41:34

End at: 2017-11-30 17:42:04

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.196 ms

Loss rate: 0.00%

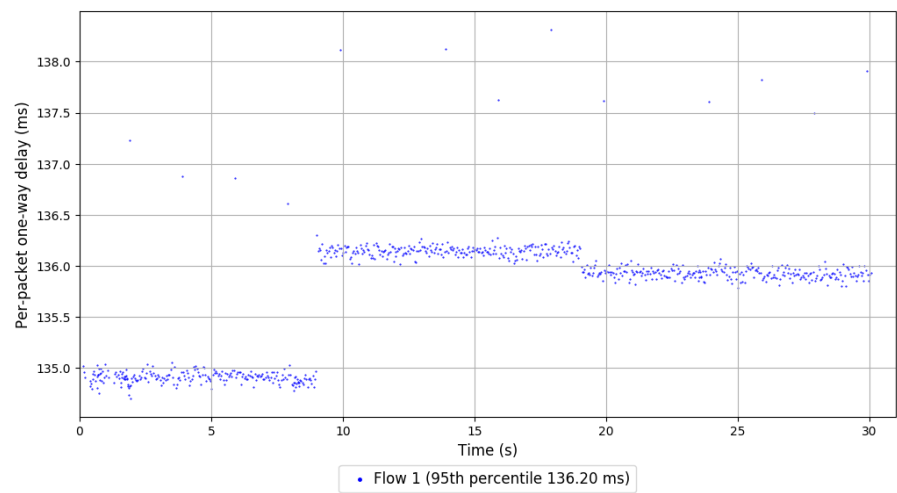
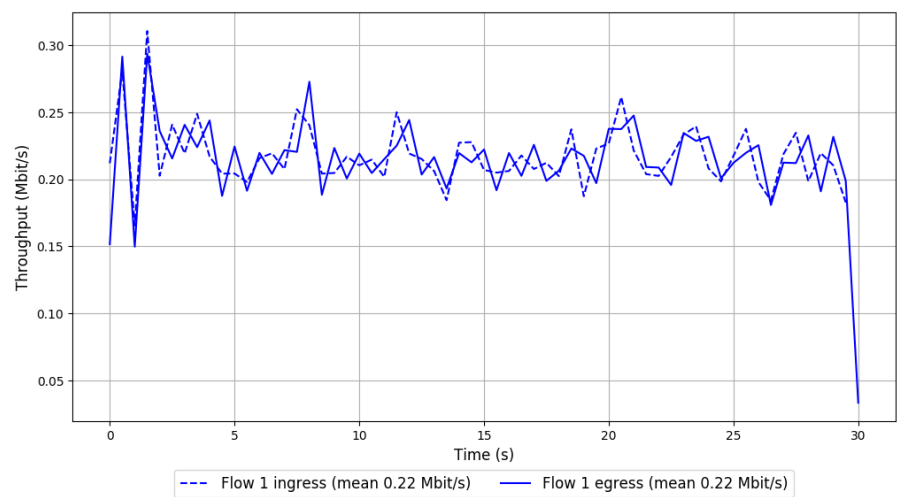
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.196 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-11-30 17:52:26

End at: 2017-11-30 17:52:56

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.416 ms

Loss rate: 0.00%

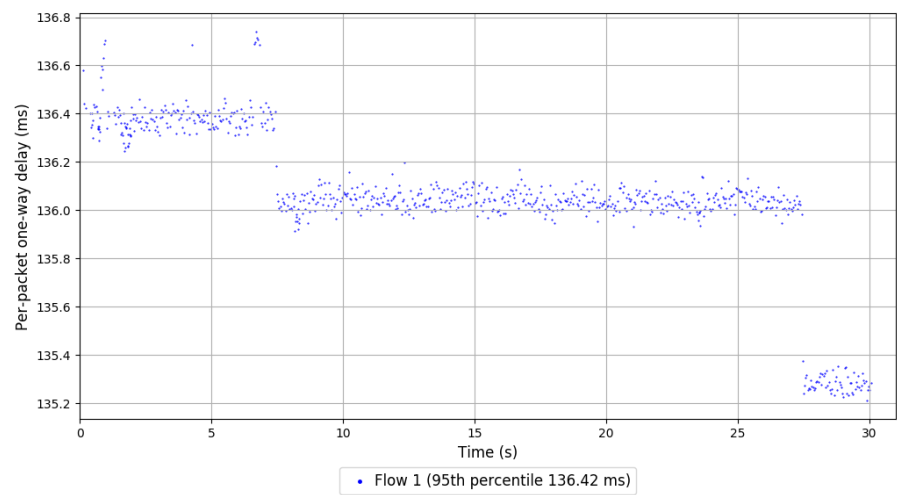
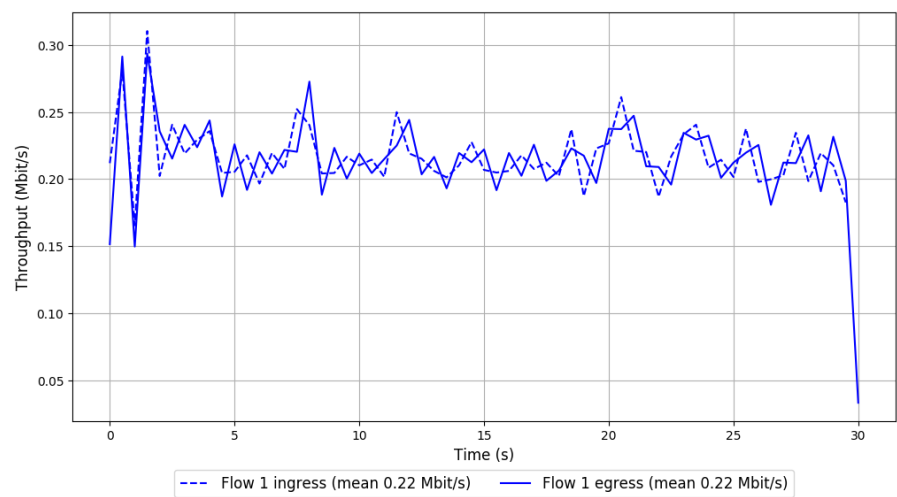
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.416 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-11-30 18:03:12

End at: 2017-11-30 18:03:42

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.334 ms

Loss rate: 0.00%

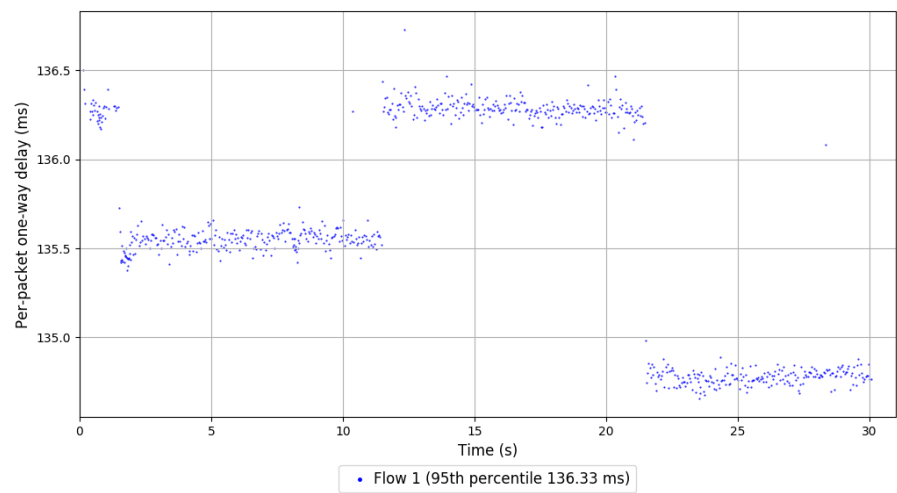
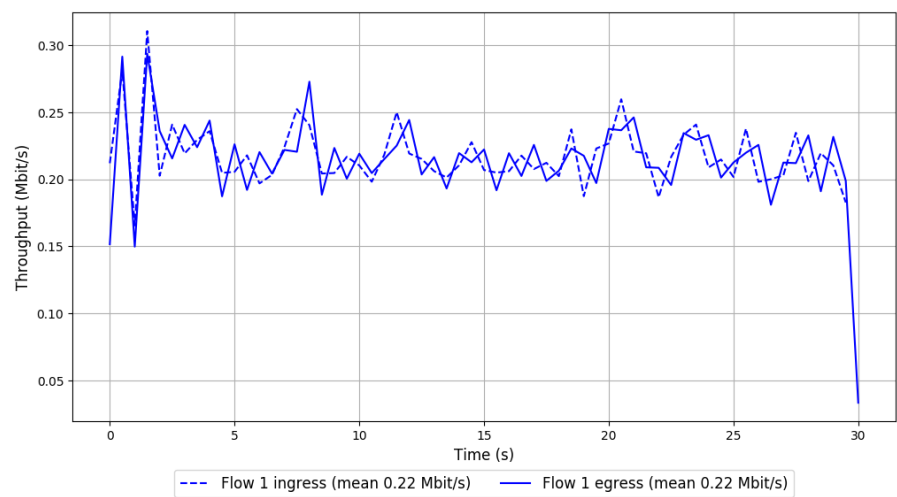
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.334 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-11-30 18:14:05

End at: 2017-11-30 18:14:35

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.419 ms

Loss rate: 0.00%

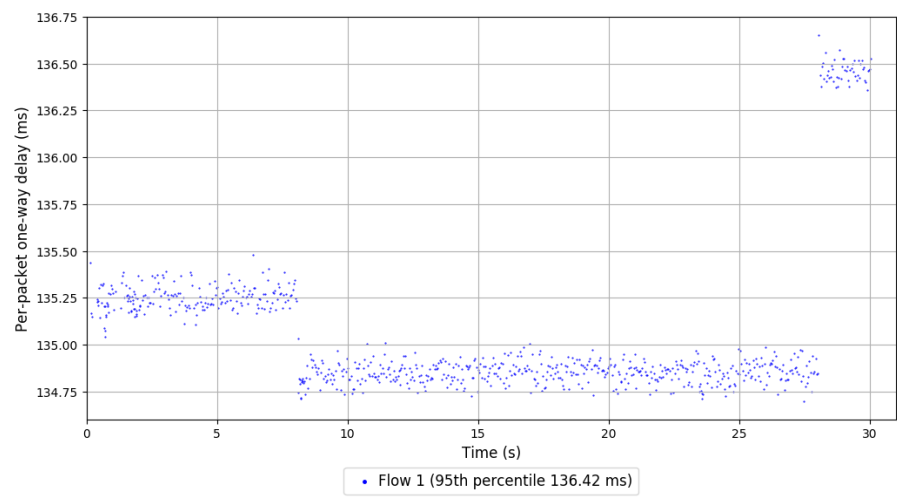
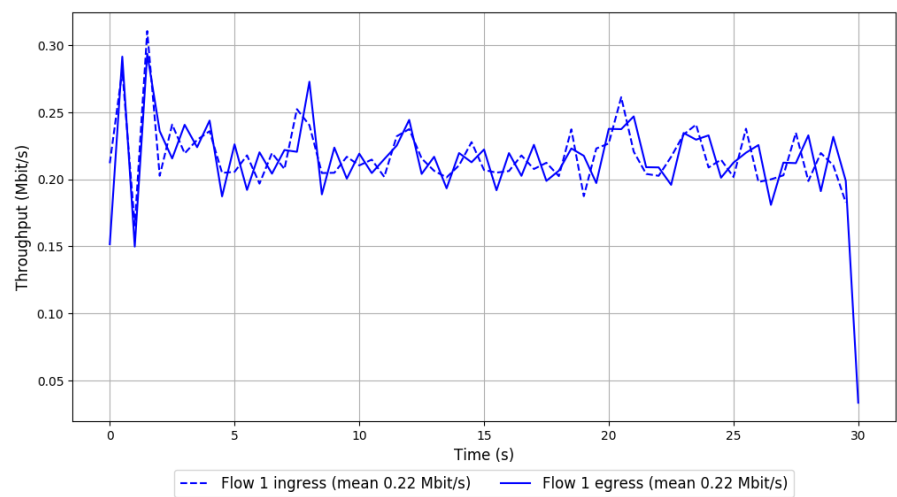
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.419 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-11-30 18:25:14

End at: 2017-11-30 18:25:44

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.544 ms

Loss rate: 0.00%

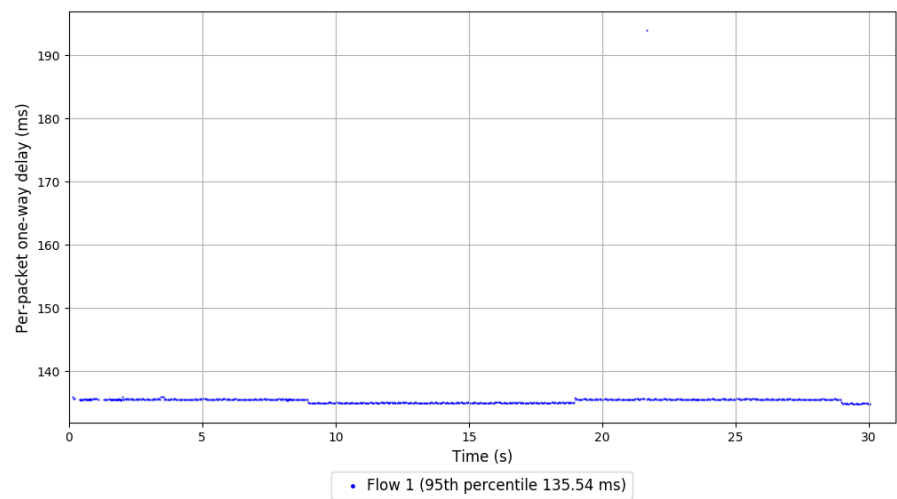
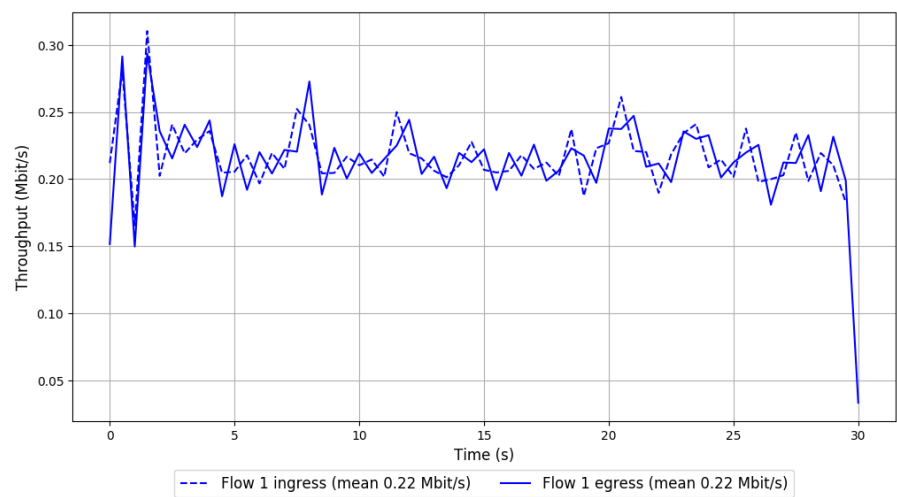
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.544 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-11-30 18:36:36

End at: 2017-11-30 18:37:06

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.864 ms

Loss rate: 0.00%

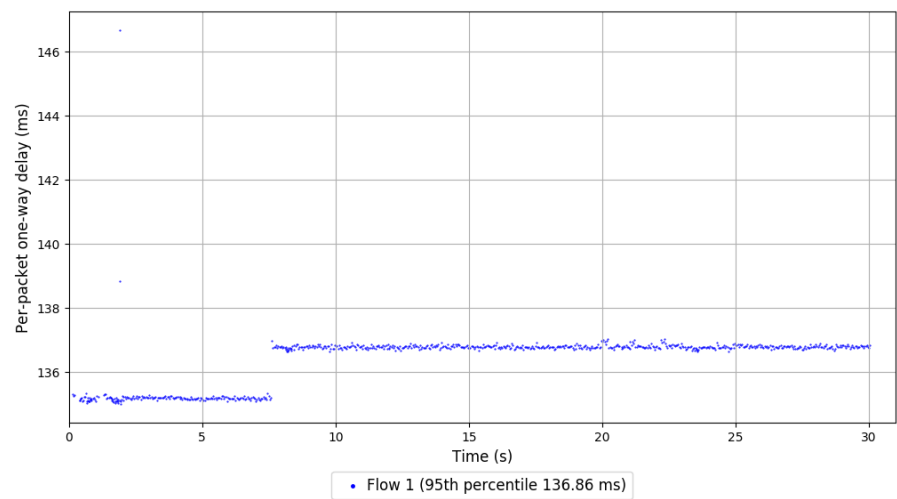
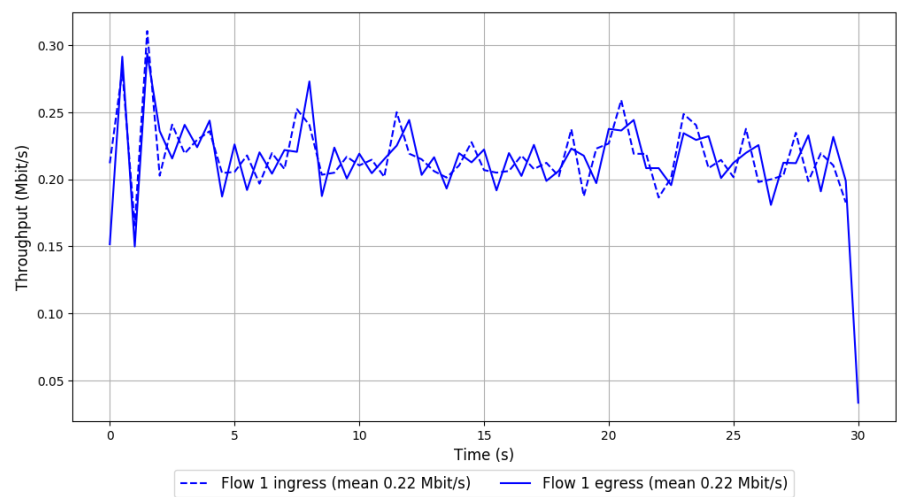
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.864 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

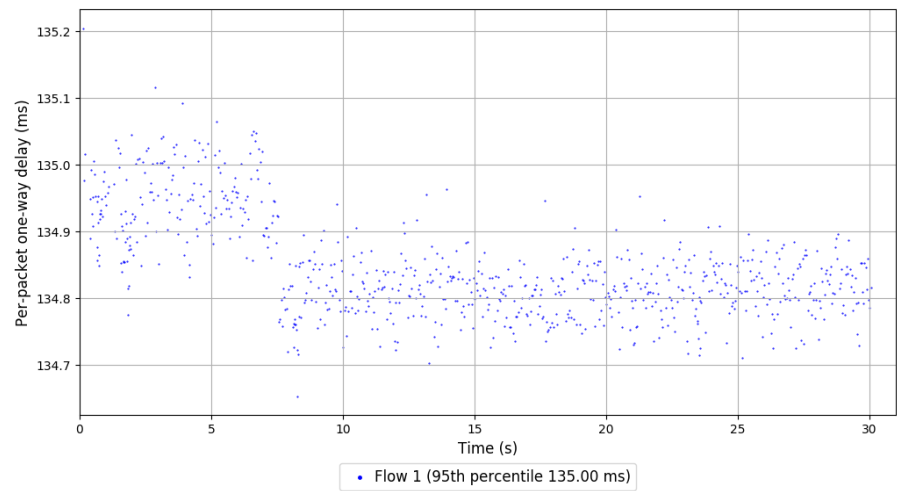
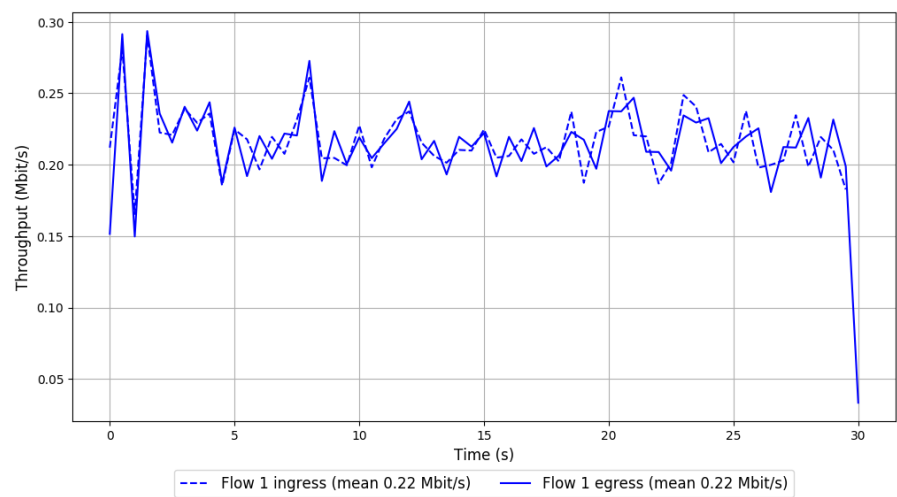


```
Run 10: Statistics of SReAM

Start at: 2017-11-30 18:48:16
End at: 2017-11-30 18:48:46

# Below is generated by plot.py at 2017-11-30 19:50:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.003 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.003 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

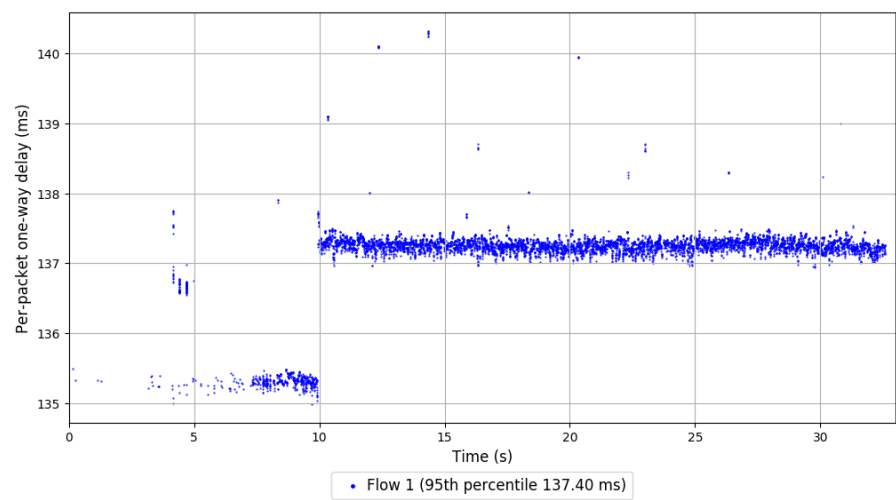
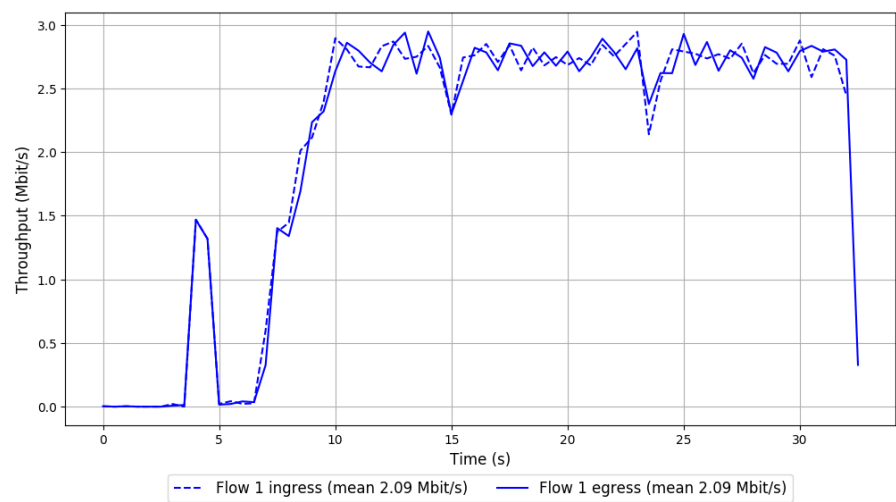


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-30 17:08:36
End at: 2017-11-30 17:09:06

# Below is generated by plot.py at 2017-11-30 19:50:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.09 Mbit/s
95th percentile per-packet one-way delay: 137.398 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.09 Mbit/s
95th percentile per-packet one-way delay: 137.398 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-30 17:19:50

End at: 2017-11-30 17:20:20

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 137.331 ms

Loss rate: 0.00%

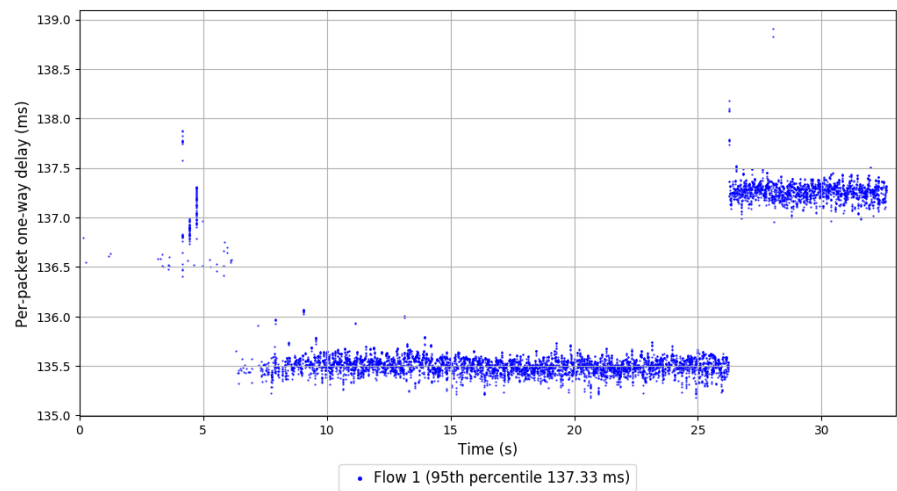
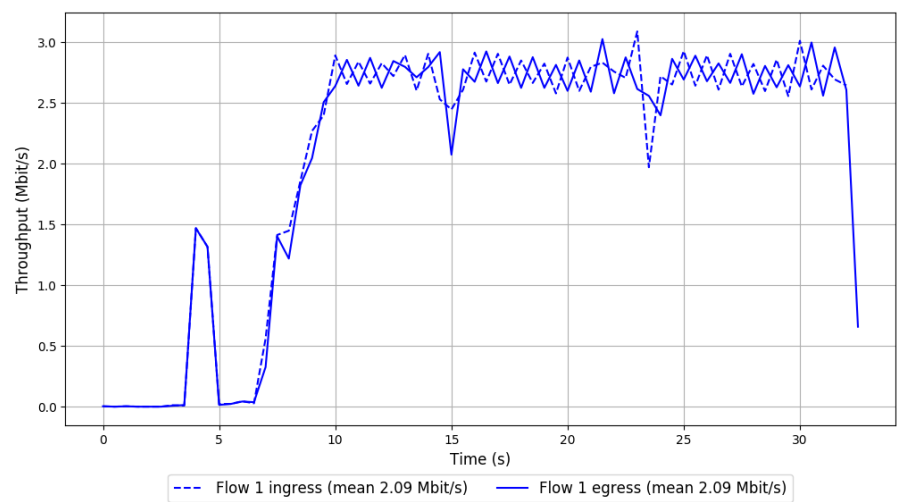
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 137.331 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-30 17:31:06

End at: 2017-11-30 17:31:36

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.605 ms

Loss rate: 0.00%

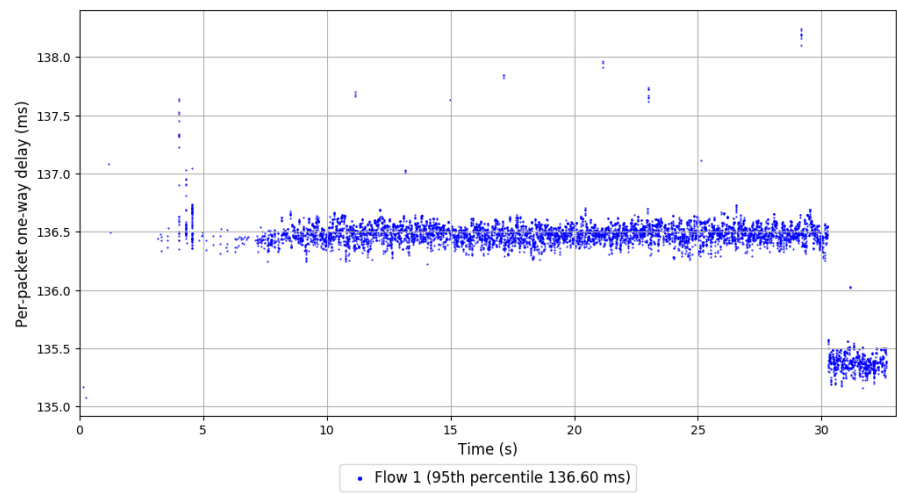
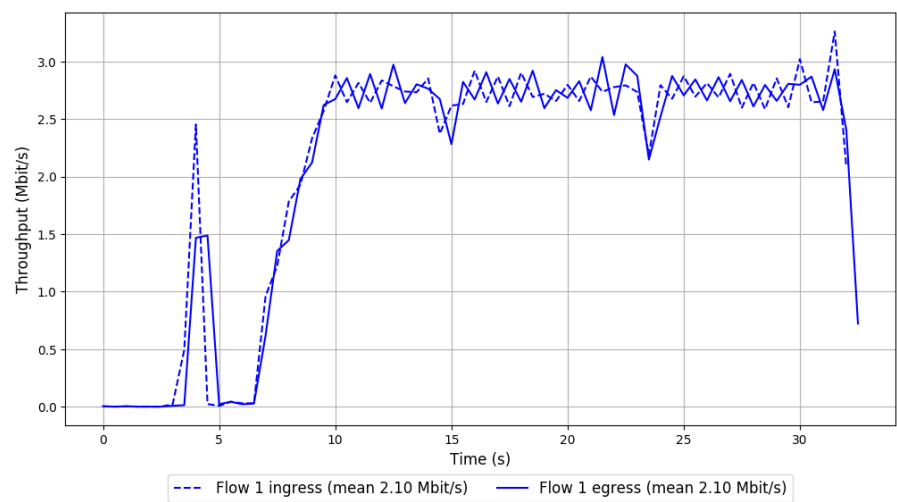
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.605 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-30 17:42:16

End at: 2017-11-30 17:42:46

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.524 ms

Loss rate: 0.00%

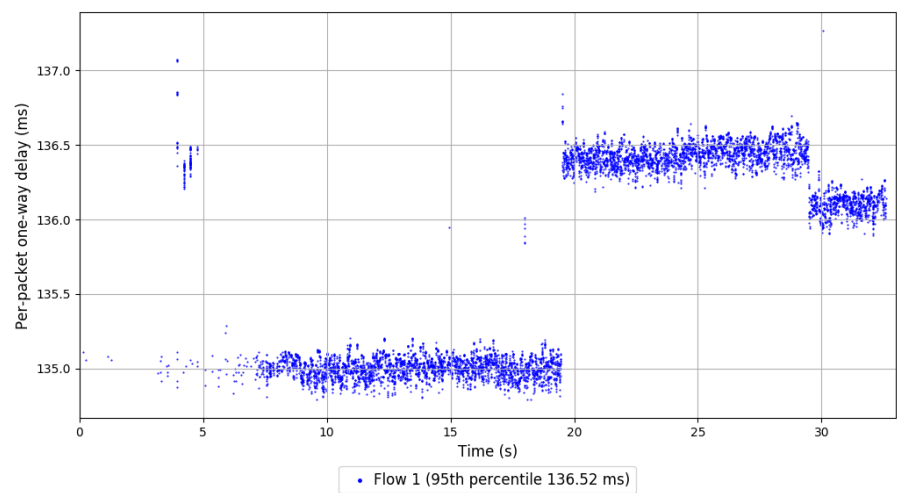
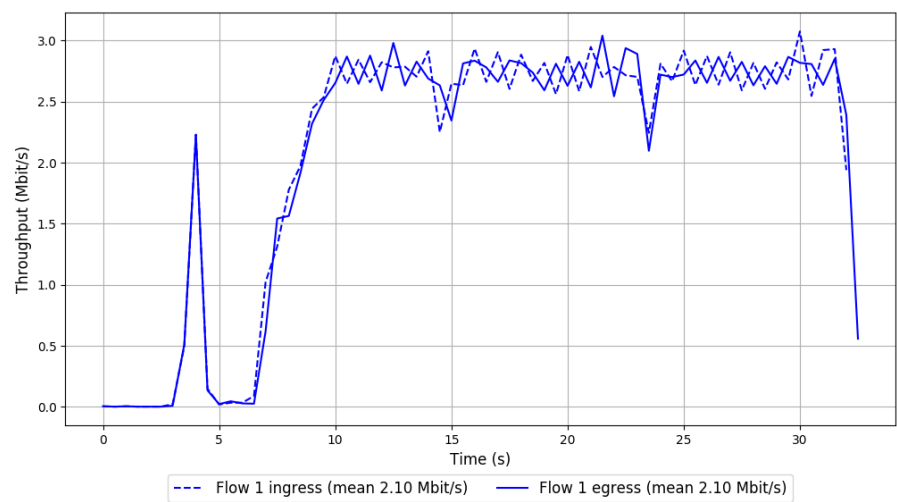
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.524 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-30 17:53:08

End at: 2017-11-30 17:53:38

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.323 ms

Loss rate: 0.00%

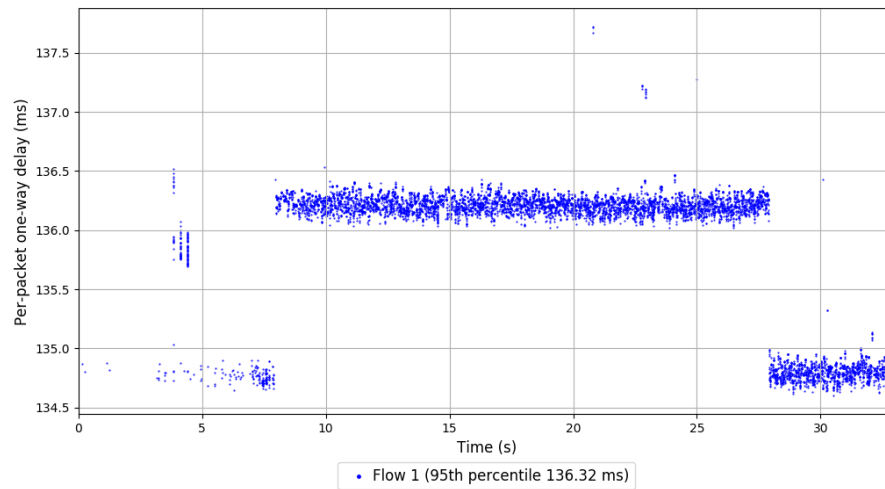
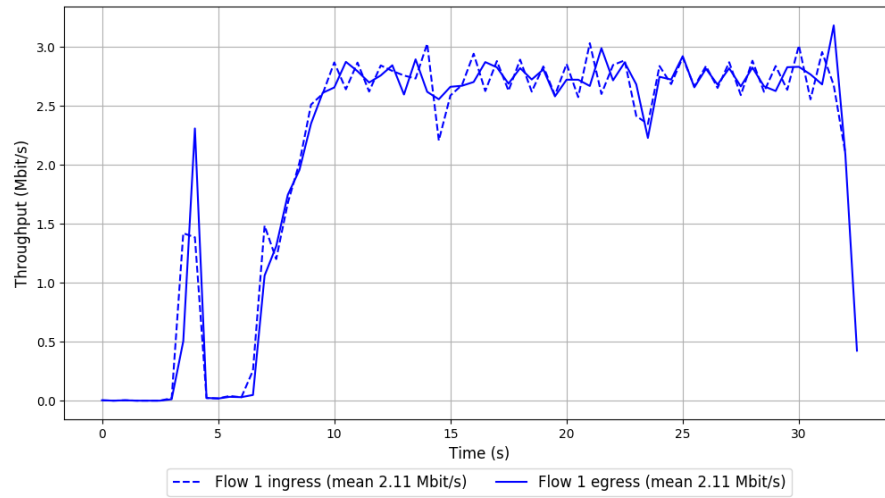
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.323 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-30 18:03:54

End at: 2017-11-30 18:04:24

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.406 ms

Loss rate: 0.00%

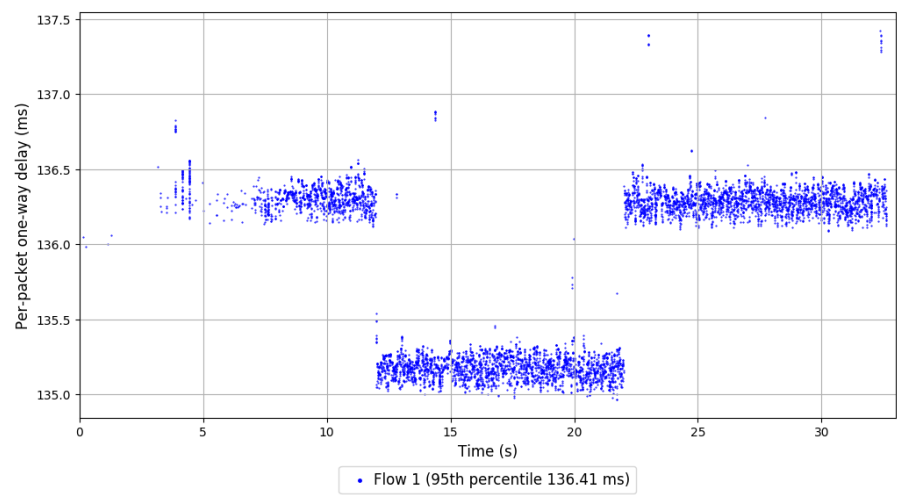
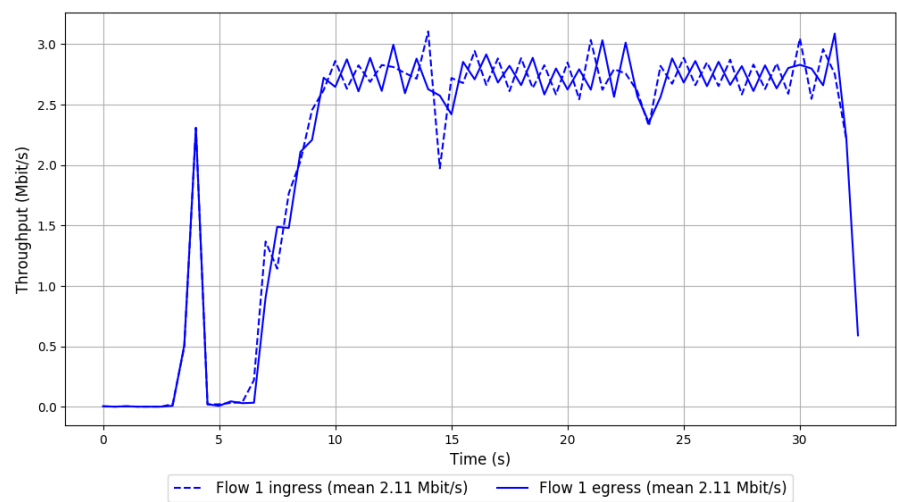
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.406 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-30 18:14:47

End at: 2017-11-30 18:15:17

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.332 ms

Loss rate: 0.00%

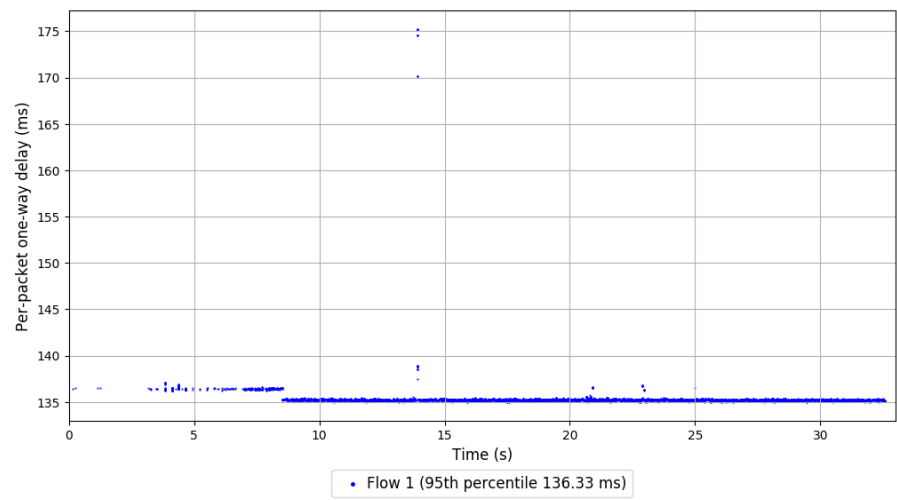
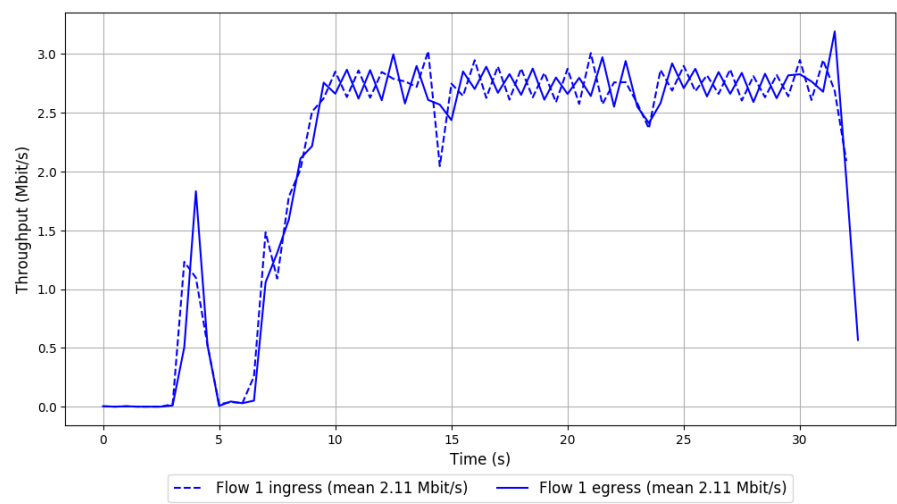
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.332 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-30 18:25:57

End at: 2017-11-30 18:26:27

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.927 ms

Loss rate: 0.00%

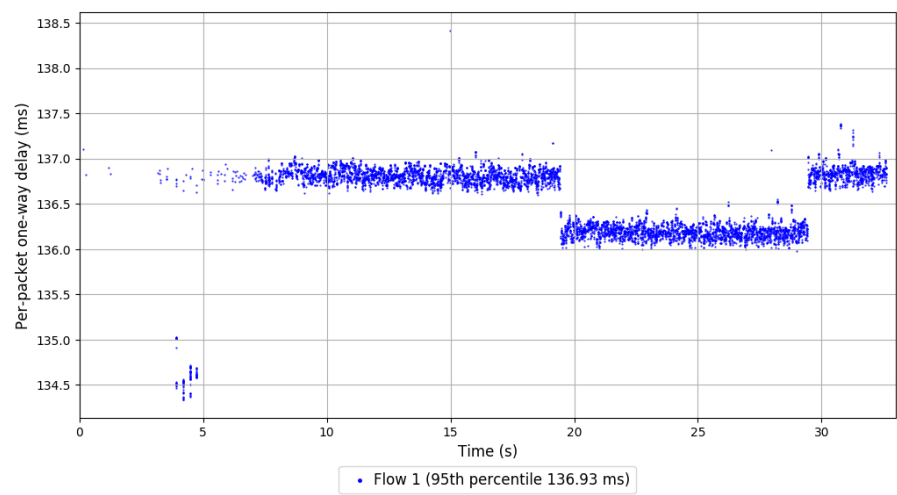
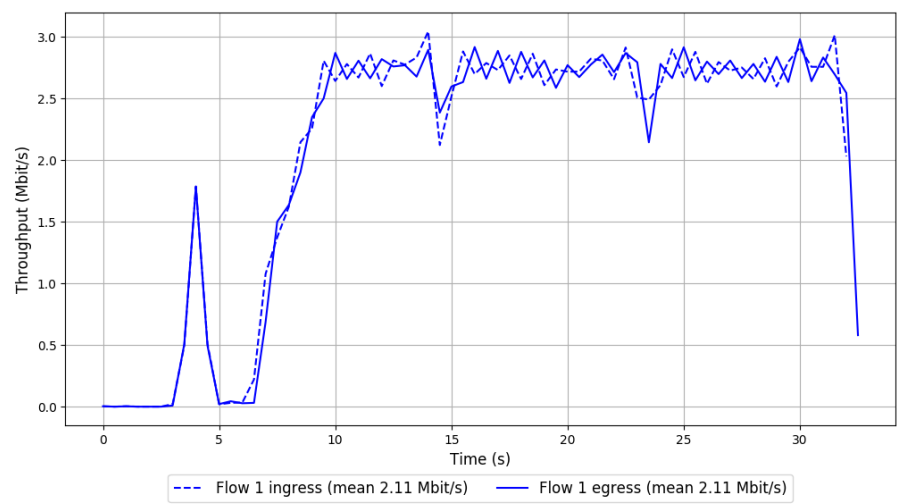
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.927 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-30 18:37:18

End at: 2017-11-30 18:37:48

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 135.508 ms

Loss rate: 0.00%

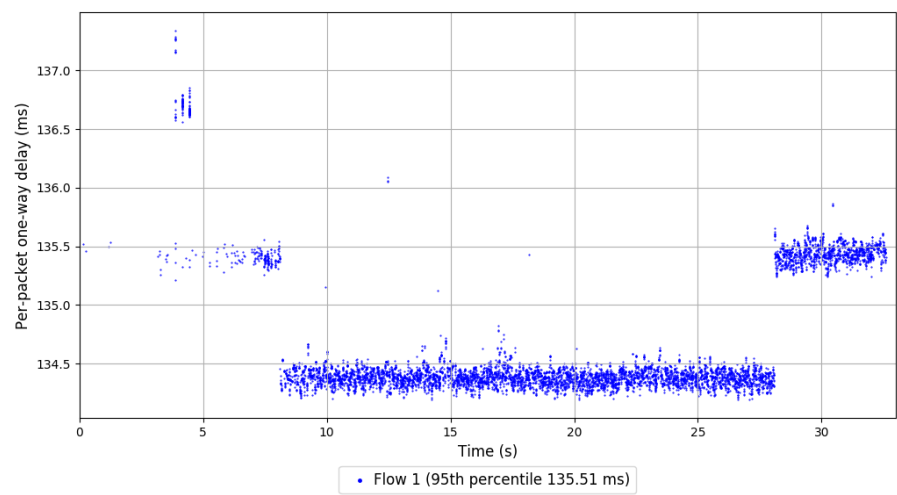
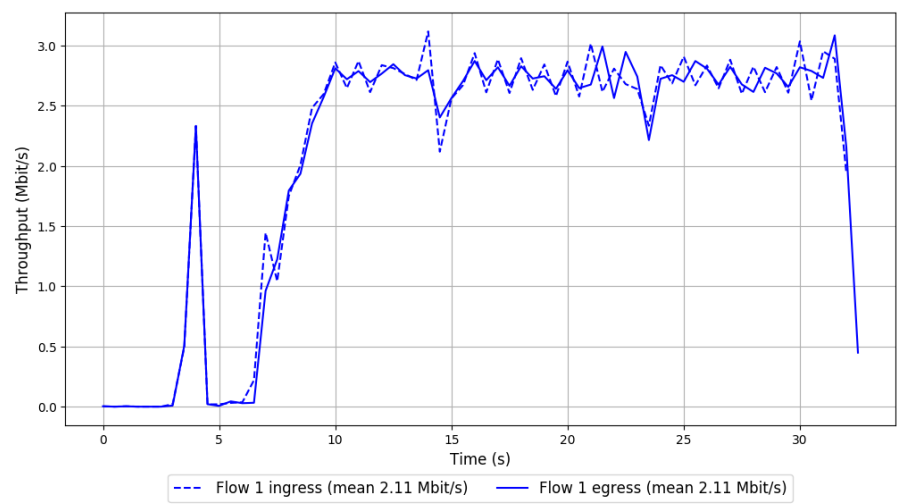
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 135.508 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-30 18:48:58

End at: 2017-11-30 18:49:28

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

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

Loss rate: 0.00%

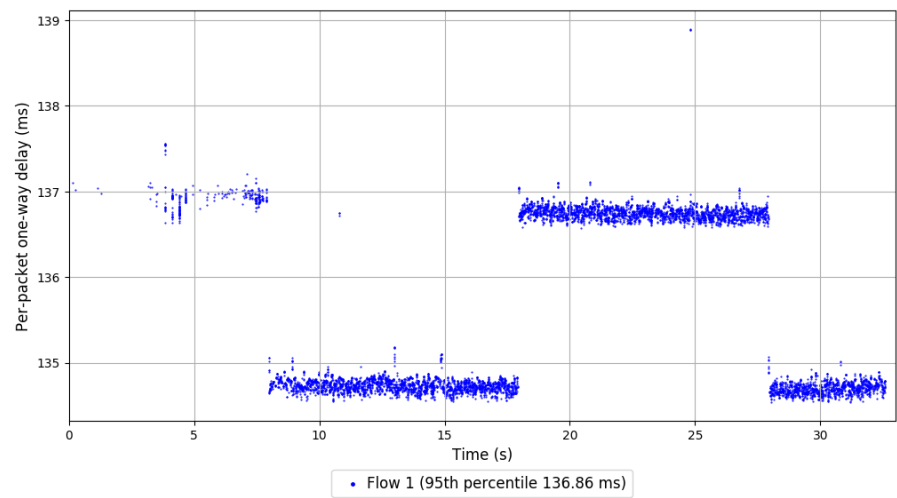
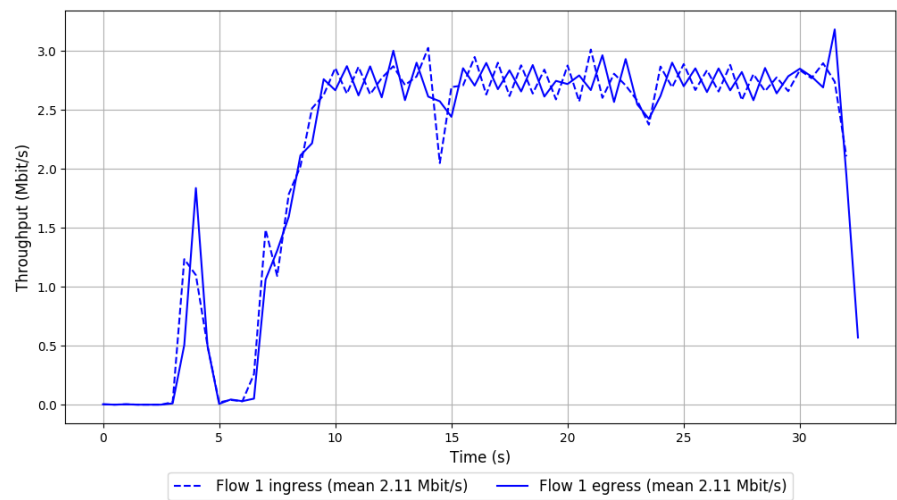
-- Flow 1:

Average throughput: 2.11 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-11-30 17:12:46

End at: 2017-11-30 17:13:16

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.267 ms

Loss rate: 0.00%

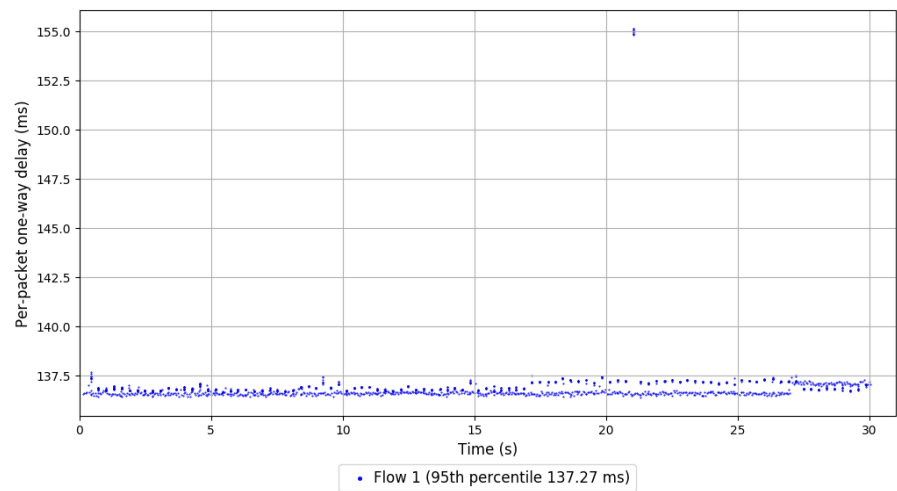
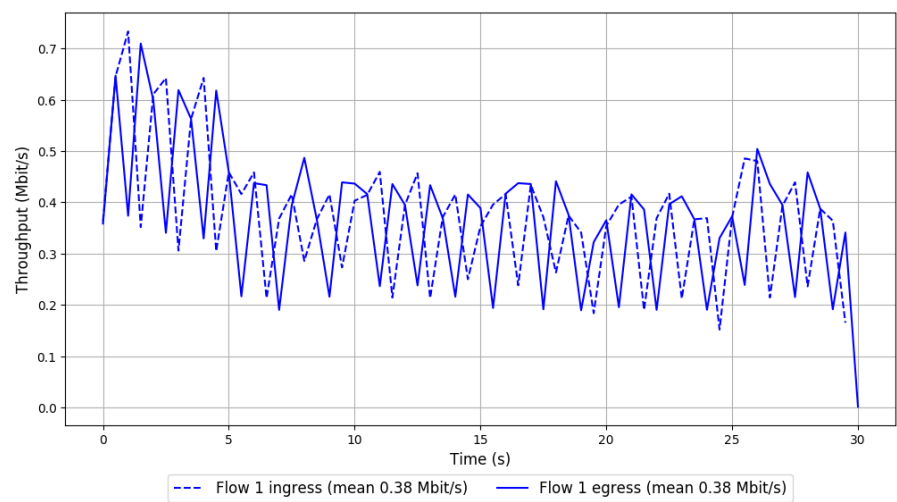
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.267 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-30 17:23:58

End at: 2017-11-30 17:24:28

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.987 ms

Loss rate: 0.00%

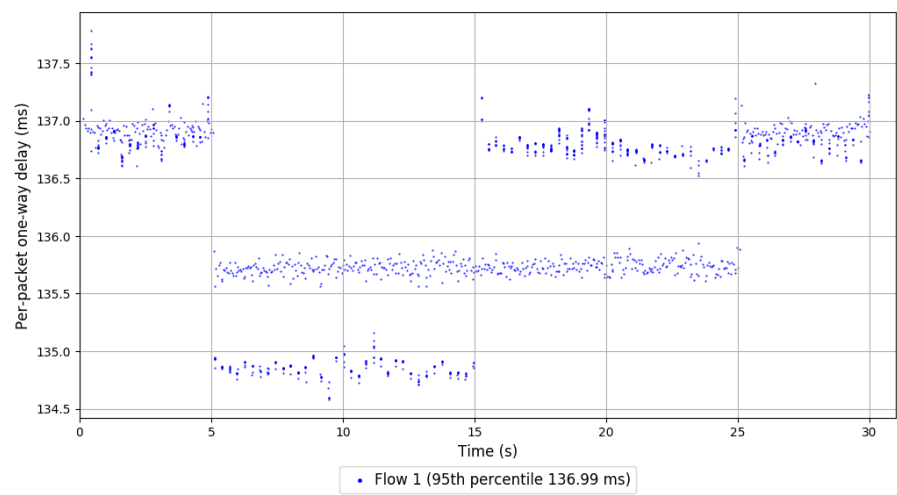
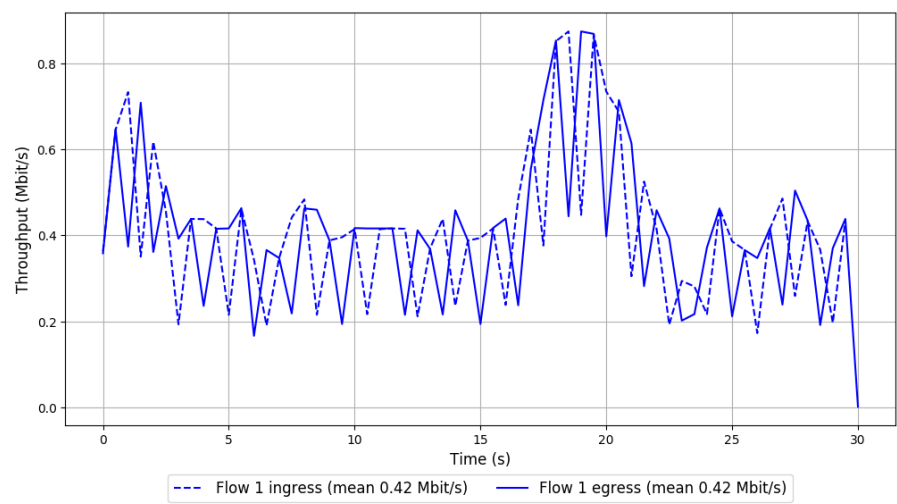
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.987 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-30 17:35:11

End at: 2017-11-30 17:35:41

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.733 ms

Loss rate: 0.00%

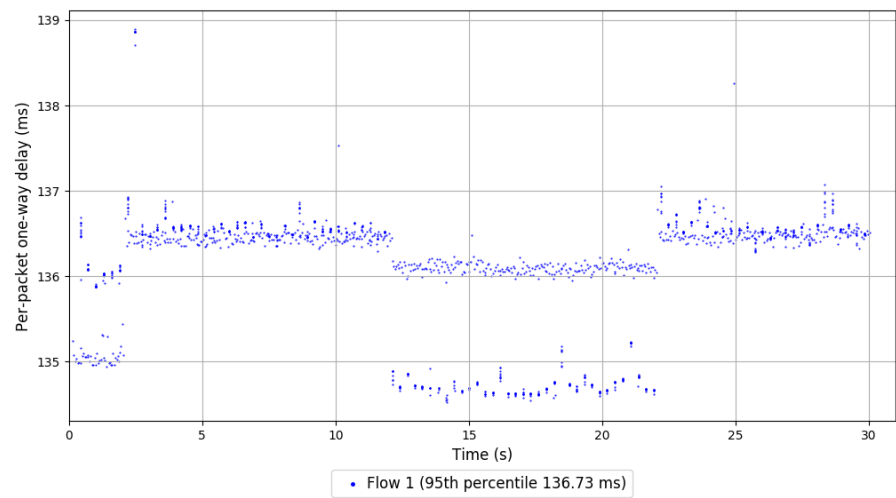
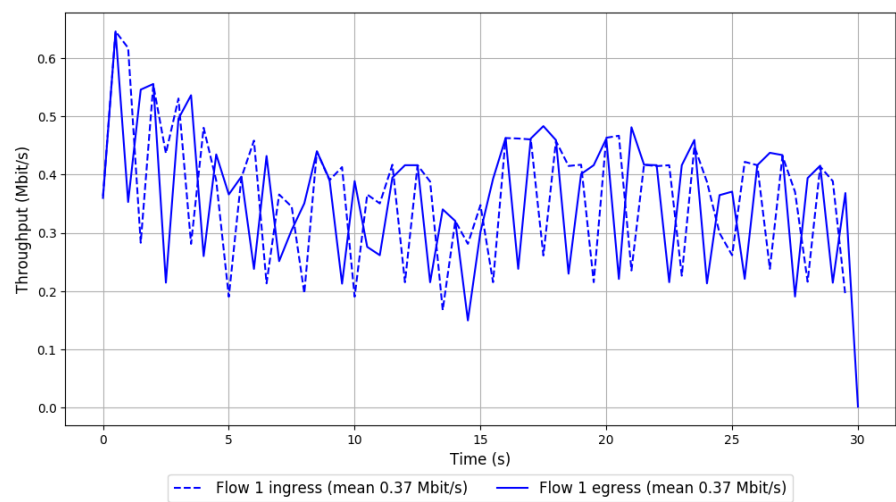
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.733 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-30 17:46:04

End at: 2017-11-30 17:46:34

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 136.714 ms

Loss rate: 0.00%

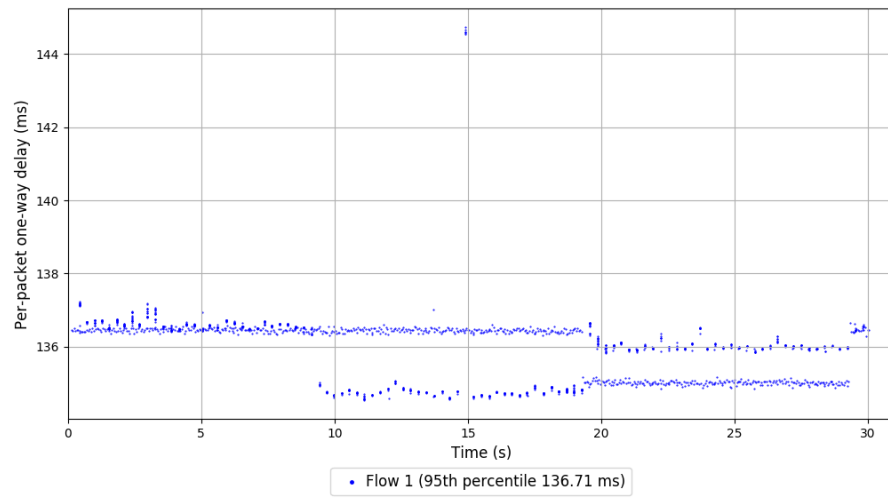
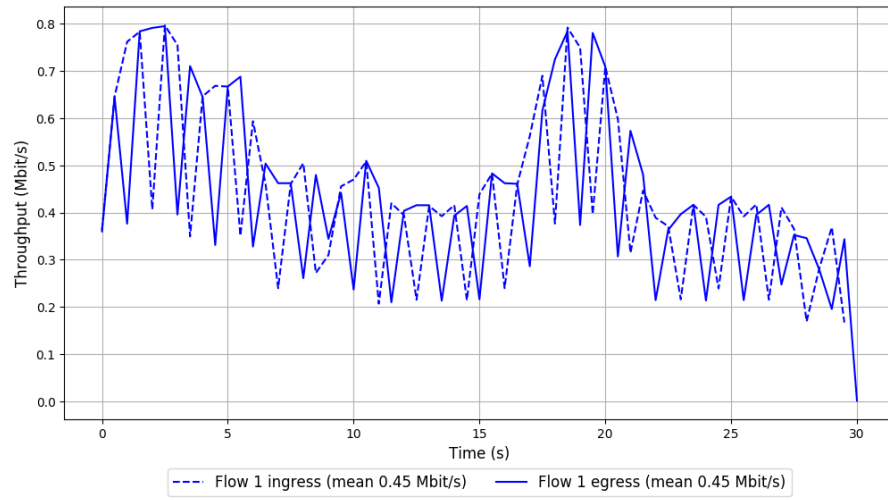
-- Flow 1:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 136.714 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-30 17:56:55

End at: 2017-11-30 17:57:25

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 136.533 ms

Loss rate: 0.00%

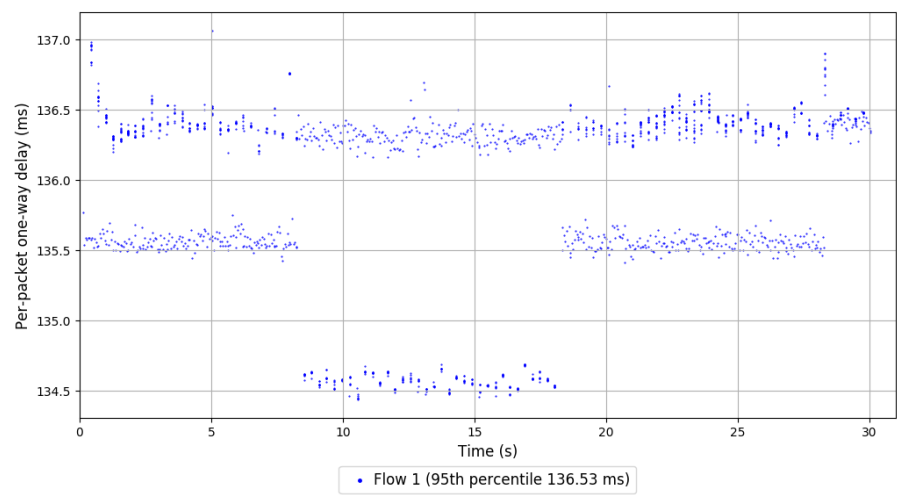
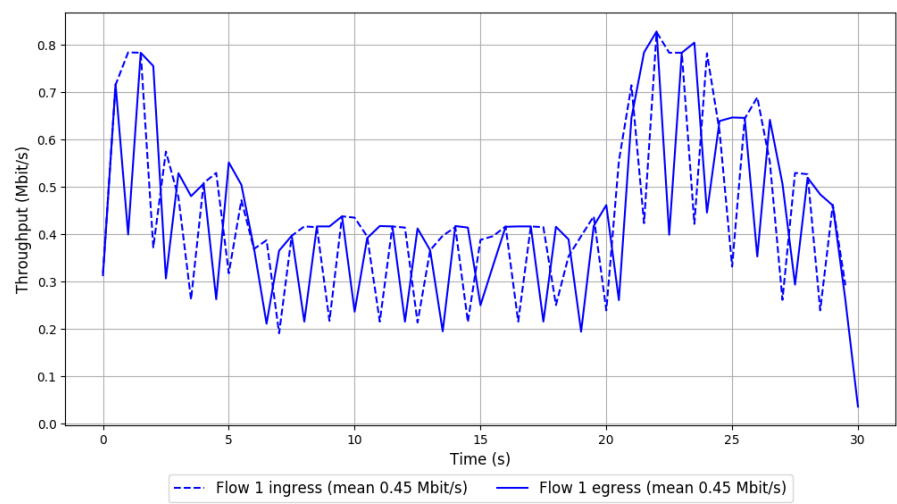
-- Flow 1:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 136.533 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-30 18:07:41

End at: 2017-11-30 18:08:11

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 136.514 ms

Loss rate: 0.00%

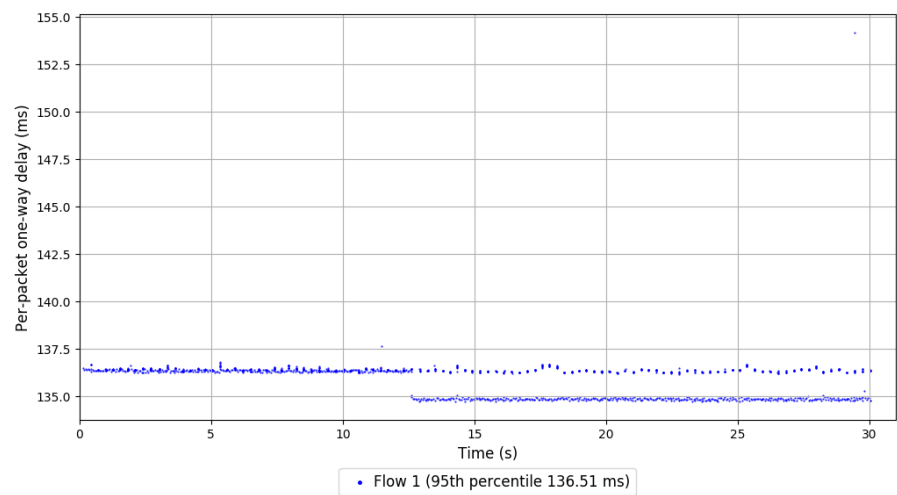
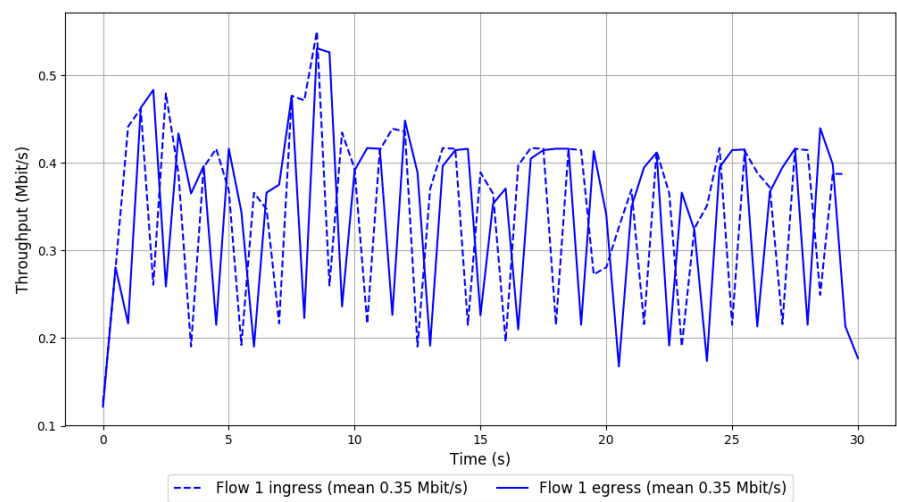
-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 136.514 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-30 18:18:58

End at: 2017-11-30 18:19:28

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 136.565 ms

Loss rate: 0.00%

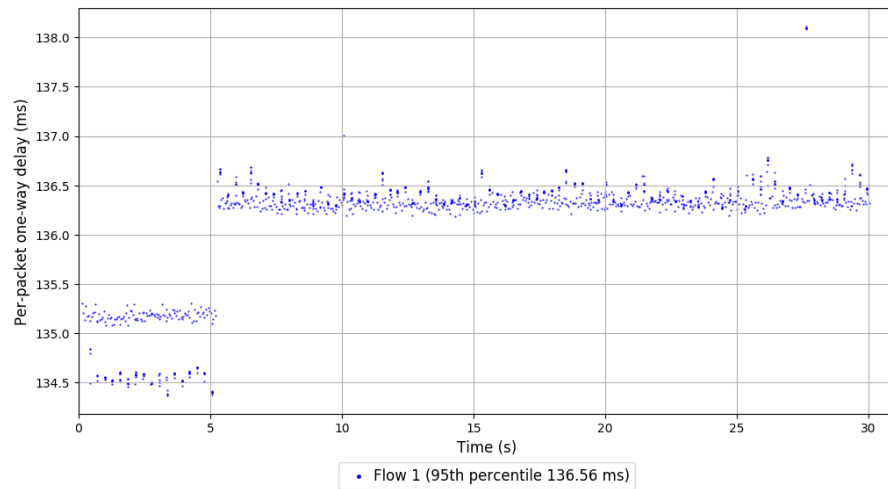
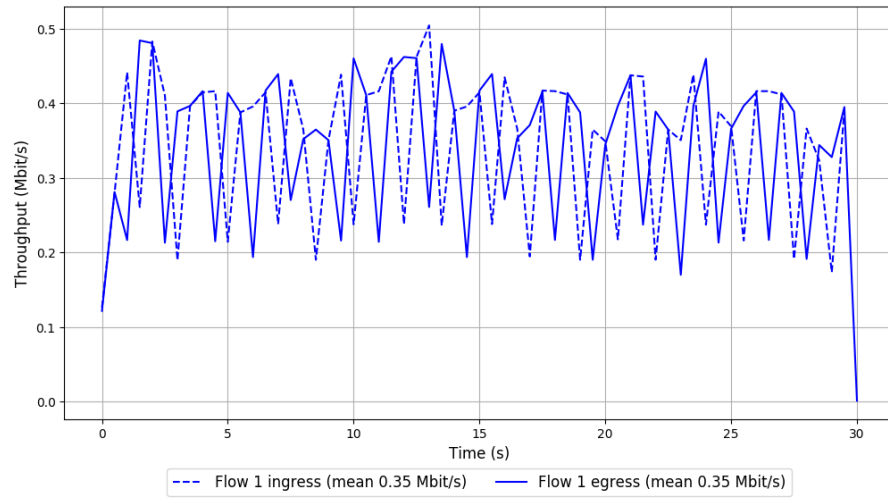
-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 136.565 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-30 18:30:12

End at: 2017-11-30 18:30:43

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 137.007 ms

Loss rate: 0.00%

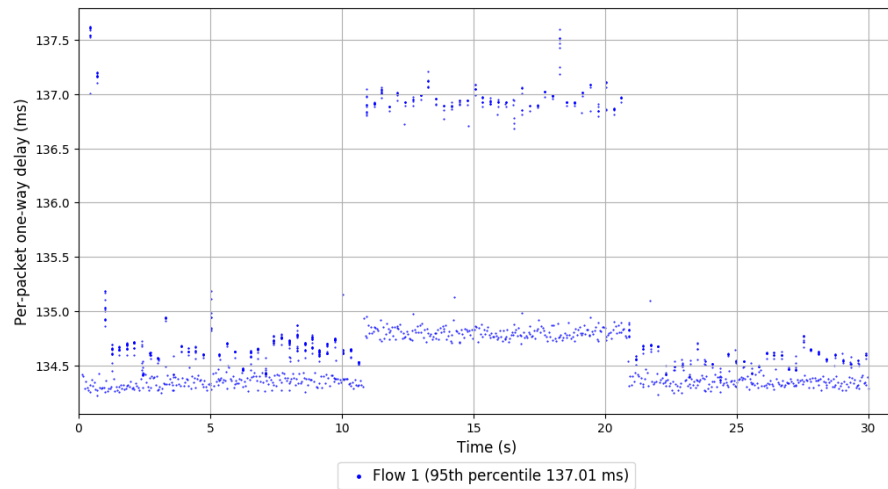
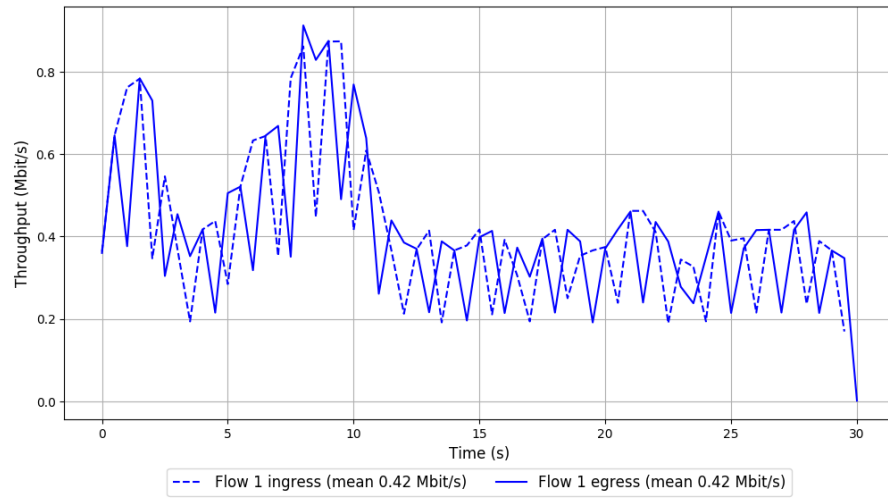
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 137.007 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-30 18:41:51

End at: 2017-11-30 18:42:21

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.117 ms

Loss rate: 0.00%

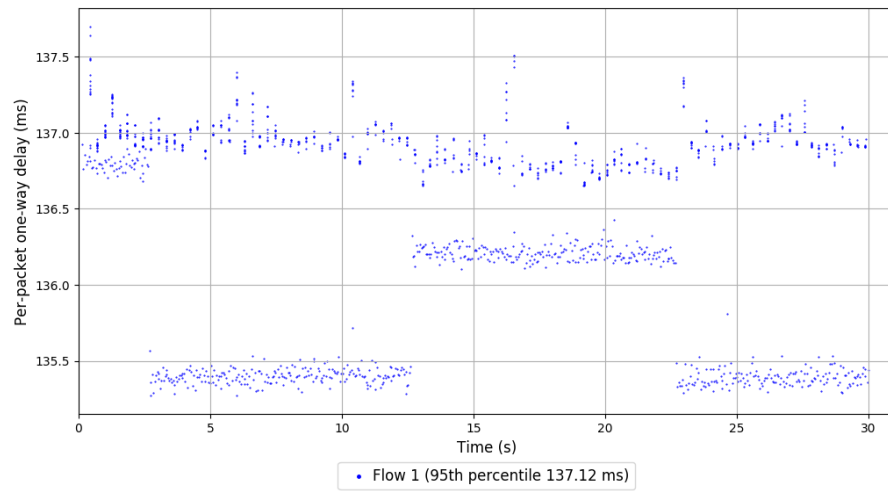
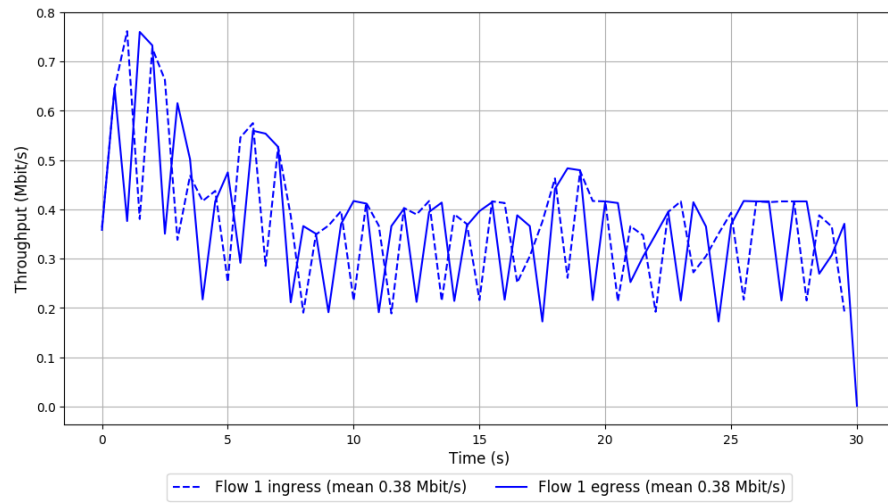
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.117 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-30 18:52:44

End at: 2017-11-30 18:53:14

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.098 ms

Loss rate: 0.00%

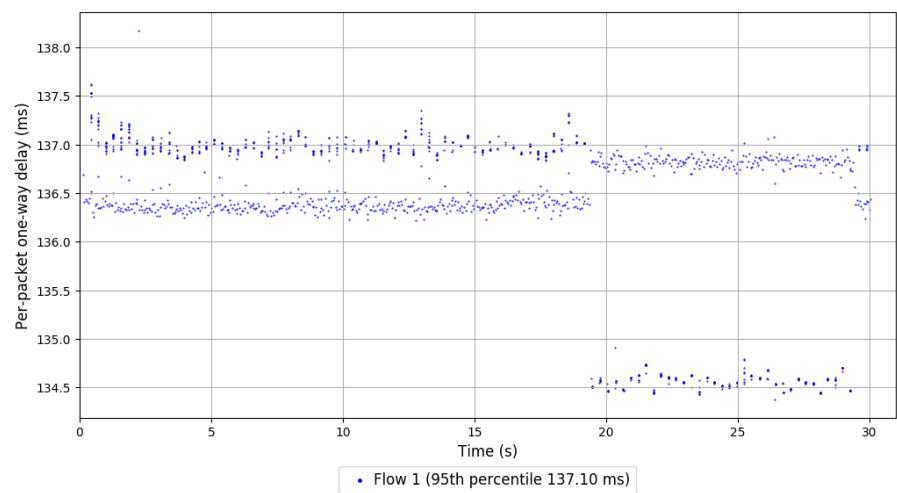
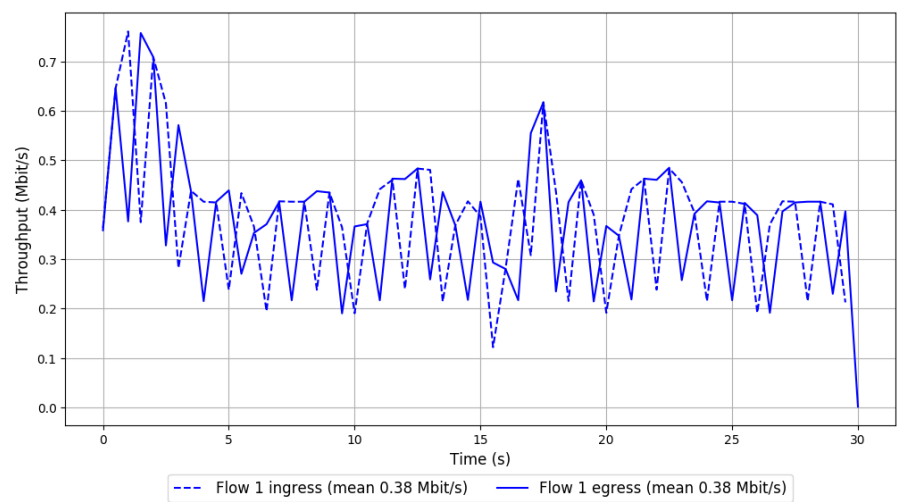
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.098 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

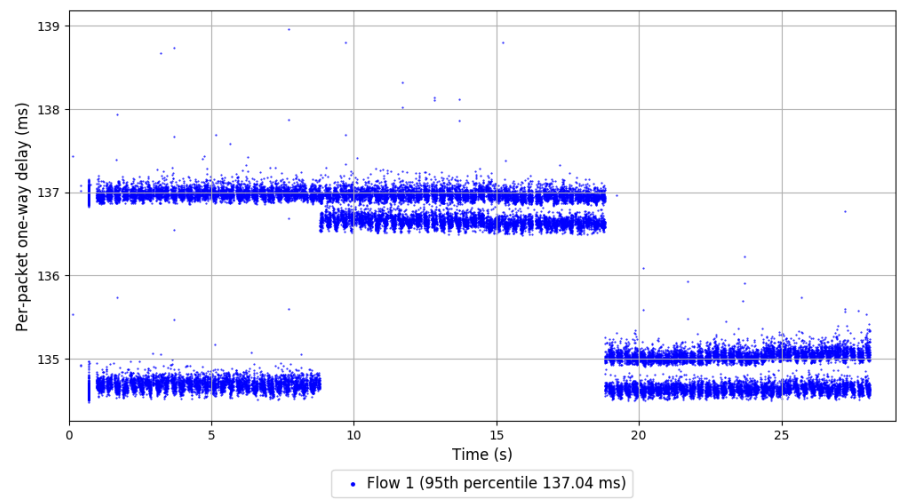
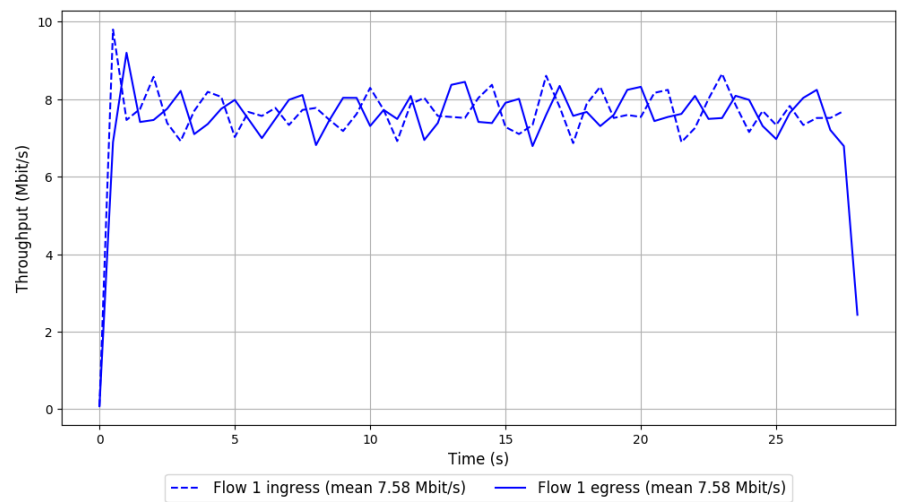


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-30 17:12:03
End at: 2017-11-30 17:12:33

# Below is generated by plot.py at 2017-11-30 19:50:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.58 Mbit/s
95th percentile per-packet one-way delay: 137.036 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.58 Mbit/s
95th percentile per-packet one-way delay: 137.036 ms
Loss rate: 0.00%
```

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

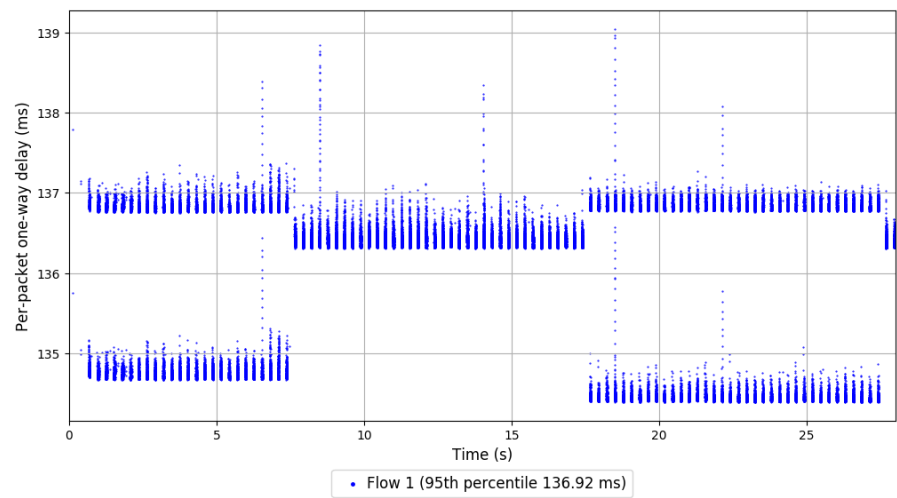
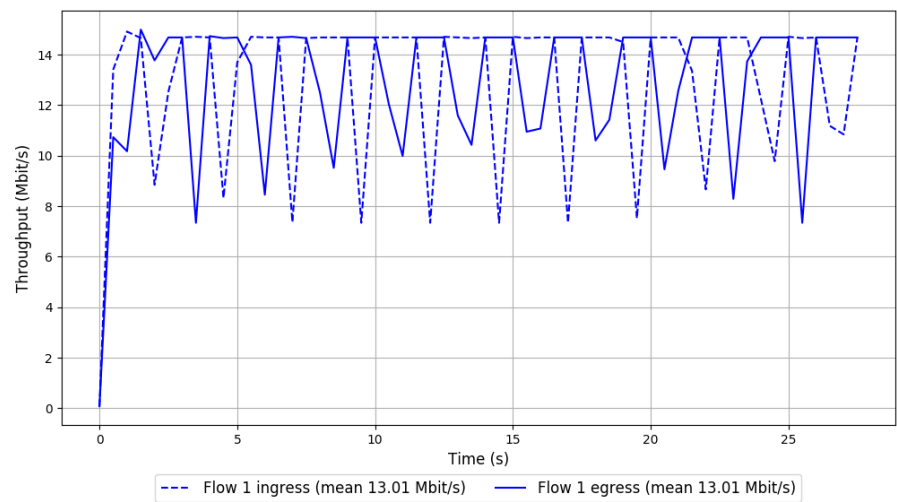


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-30 17:23:14
End at: 2017-11-30 17:23:44

# Below is generated by plot.py at 2017-11-30 19:50:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.01 Mbit/s
95th percentile per-packet one-way delay: 136.917 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.01 Mbit/s
95th percentile per-packet one-way delay: 136.917 ms
Loss rate: 0.00%
```

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

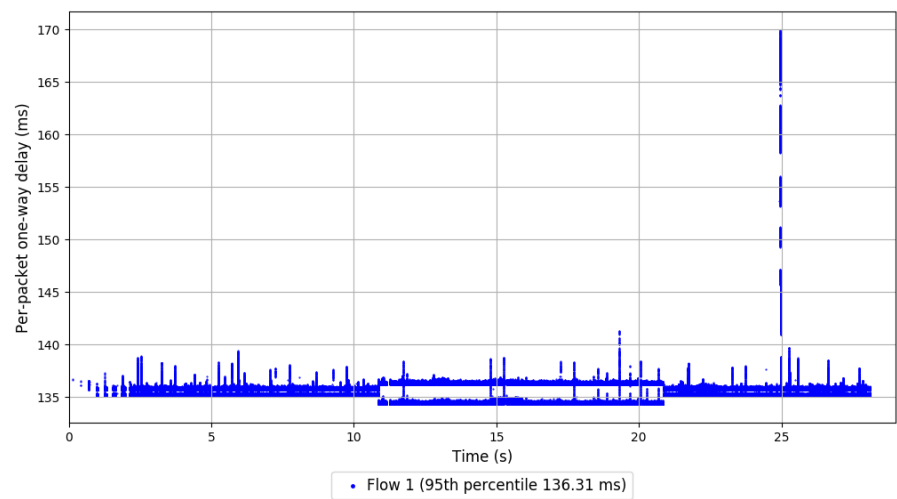
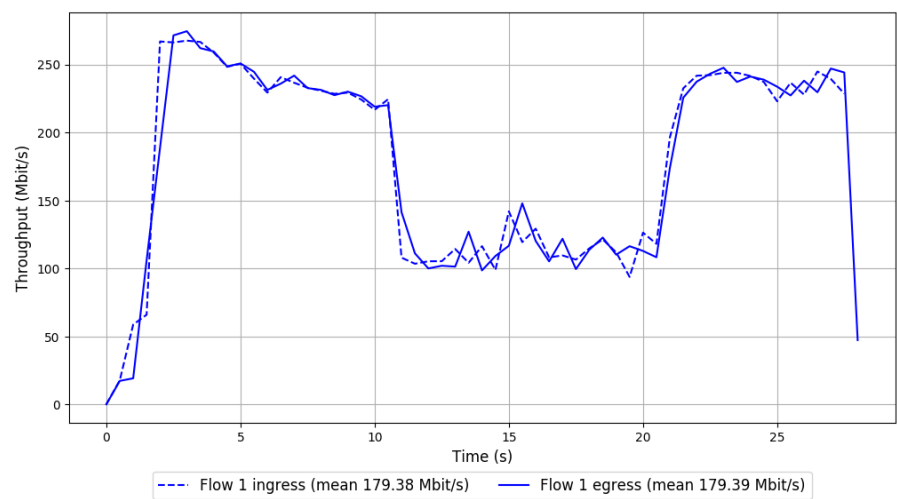


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-11-30 17:34:11
End at: 2017-11-30 17:34:41

# Below is generated by plot.py at 2017-11-30 19:50:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 179.39 Mbit/s
95th percentile per-packet one-way delay: 136.313 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 179.39 Mbit/s
95th percentile per-packet one-way delay: 136.313 ms
Loss rate: 0.00%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-30 17:45:20

End at: 2017-11-30 17:45:50

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.33 Mbit/s

95th percentile per-packet one-way delay: 136.316 ms

Loss rate: 0.00%

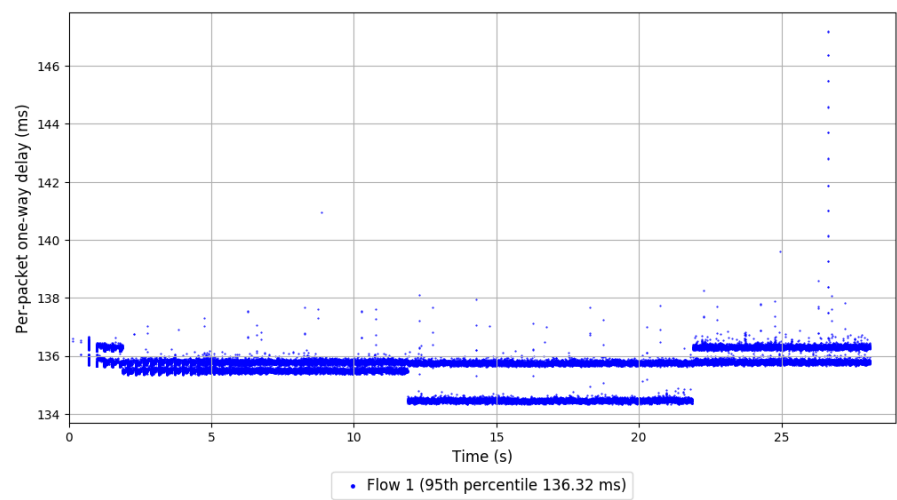
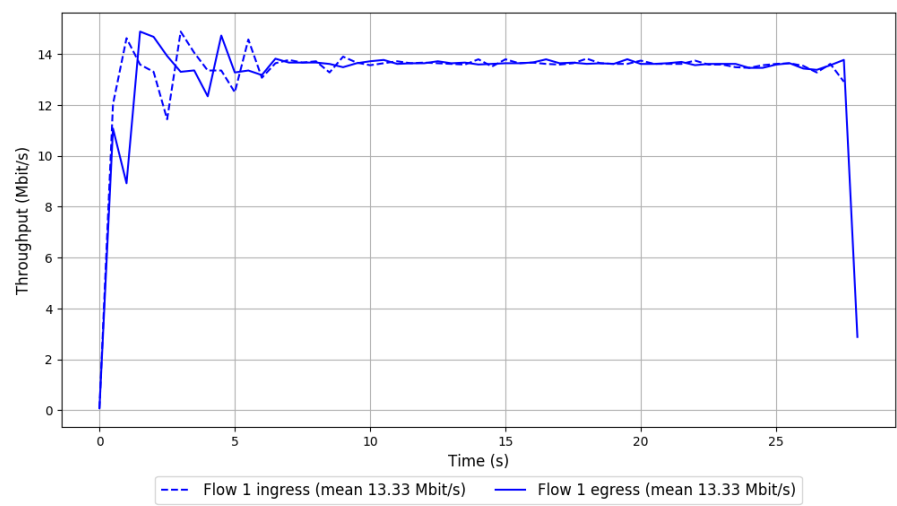
-- Flow 1:

Average throughput: 13.33 Mbit/s

95th percentile per-packet one-way delay: 136.316 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-30 17:56:11

End at: 2017-11-30 17:56:41

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.24 Mbit/s

95th percentile per-packet one-way delay: 136.284 ms

Loss rate: 0.00%

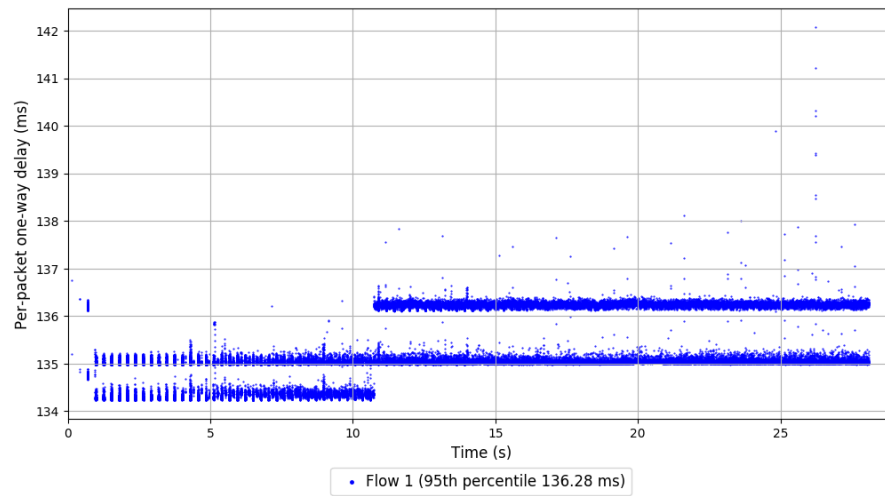
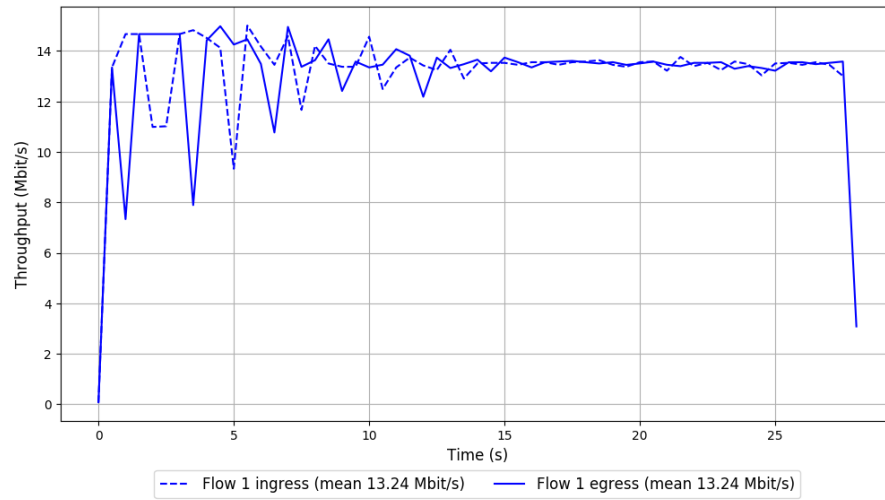
-- Flow 1:

Average throughput: 13.24 Mbit/s

95th percentile per-packet one-way delay: 136.284 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-30 18:06:56

End at: 2017-11-30 18:07:26

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.34 Mbit/s

95th percentile per-packet one-way delay: 136.645 ms

Loss rate: 0.00%

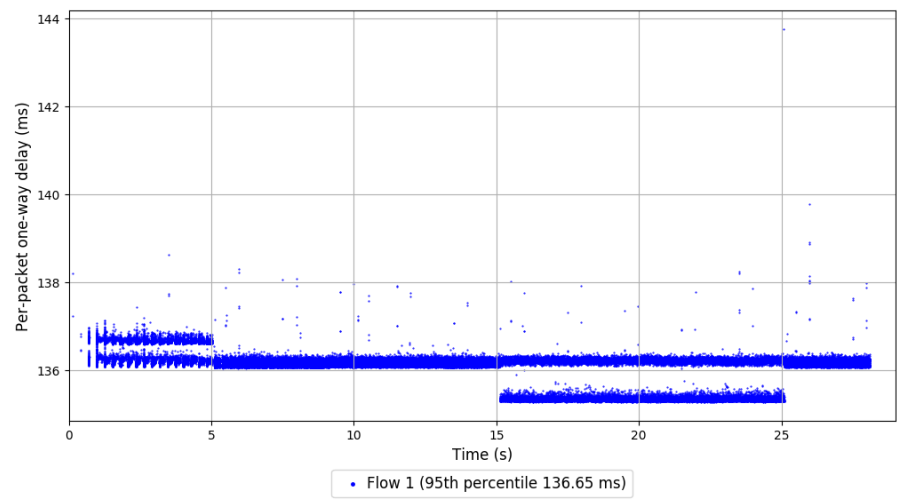
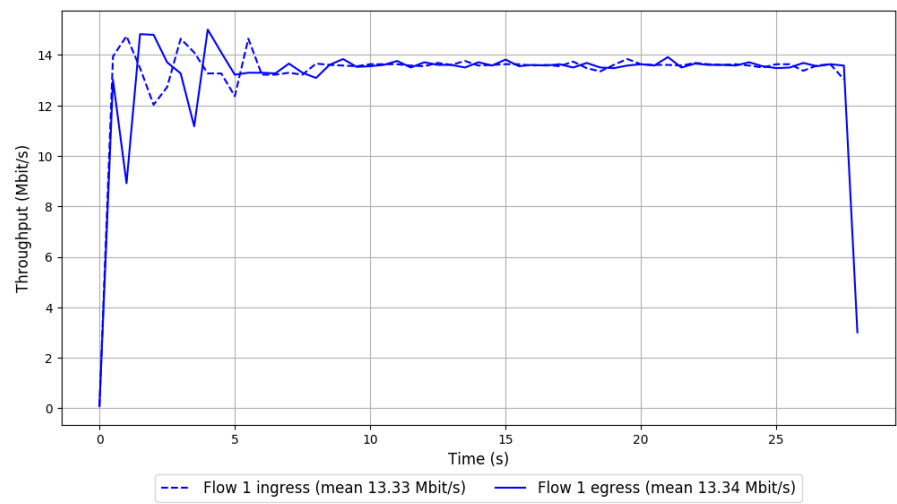
-- Flow 1:

Average throughput: 13.34 Mbit/s

95th percentile per-packet one-way delay: 136.645 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-30 18:18:14

End at: 2017-11-30 18:18:44

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.33 Mbit/s

95th percentile per-packet one-way delay: 136.261 ms

Loss rate: 0.00%

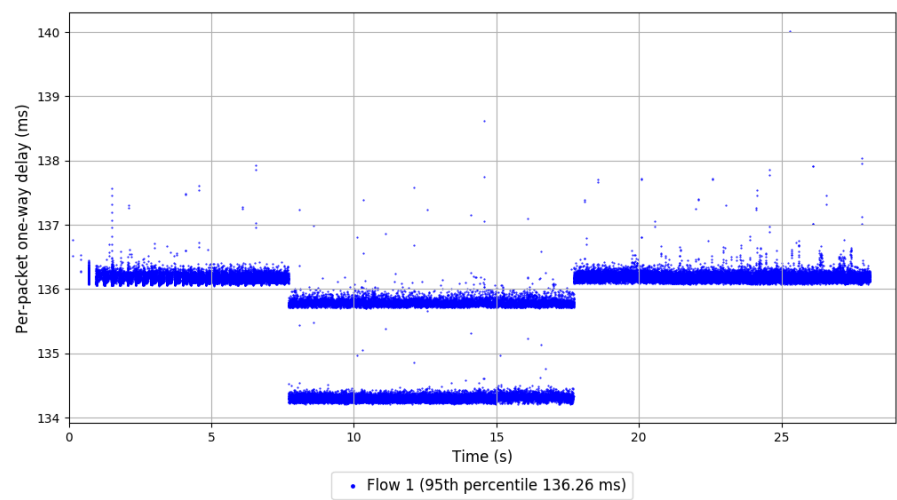
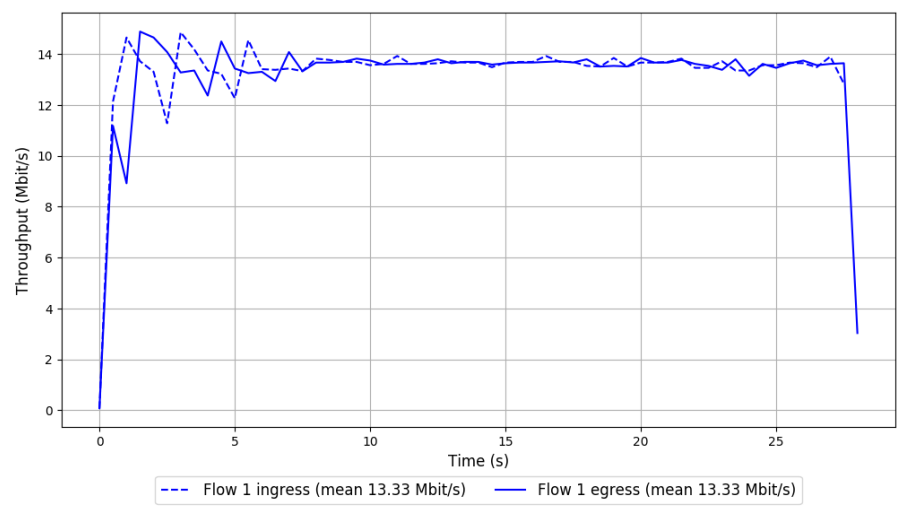
-- Flow 1:

Average throughput: 13.33 Mbit/s

95th percentile per-packet one-way delay: 136.261 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-30 18:29:28

End at: 2017-11-30 18:29:58

Below is generated by plot.py at 2017-11-30 19:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.88 Mbit/s

95th percentile per-packet one-way delay: 136.767 ms

Loss rate: 0.00%

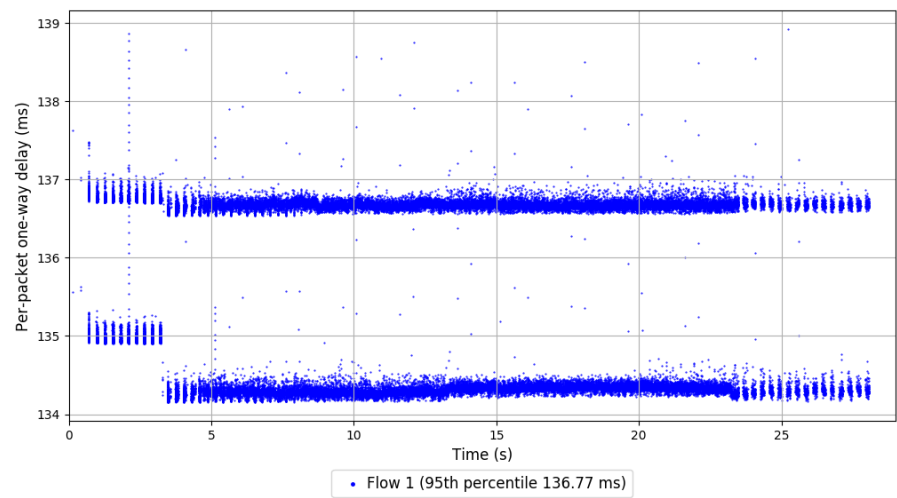
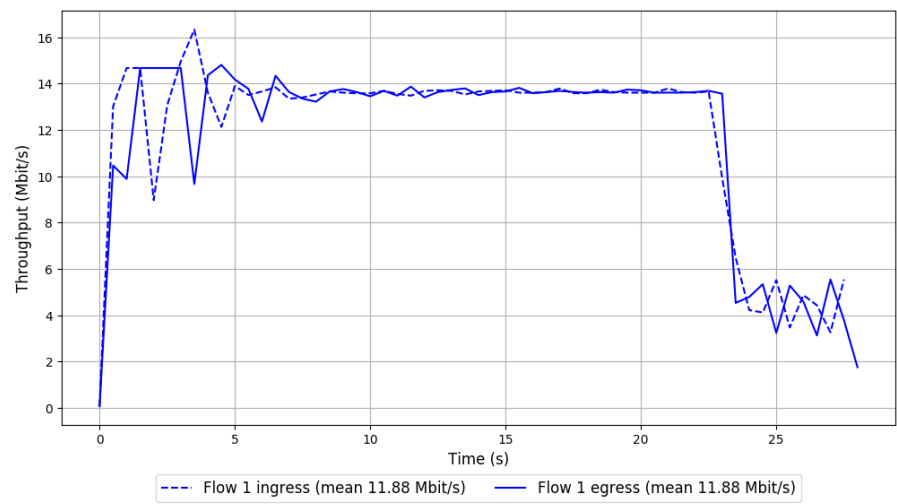
-- Flow 1:

Average throughput: 11.88 Mbit/s

95th percentile per-packet one-way delay: 136.767 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-30 18:40:50

End at: 2017-11-30 18:41:20

Below is generated by plot.py at 2017-11-30 19:50:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.36 Mbit/s

95th percentile per-packet one-way delay: 136.938 ms

Loss rate: 0.00%

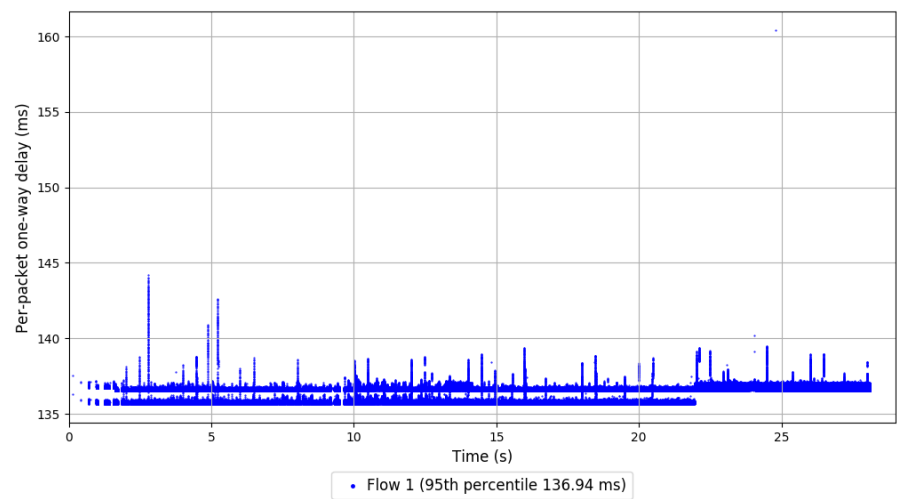
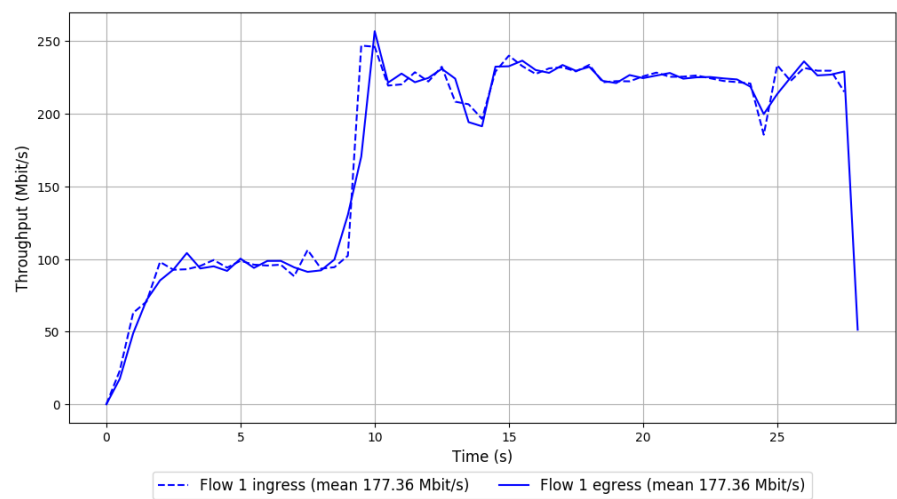
-- Flow 1:

Average throughput: 177.36 Mbit/s

95th percentile per-packet one-way delay: 136.938 ms

Loss rate: 0.00%

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

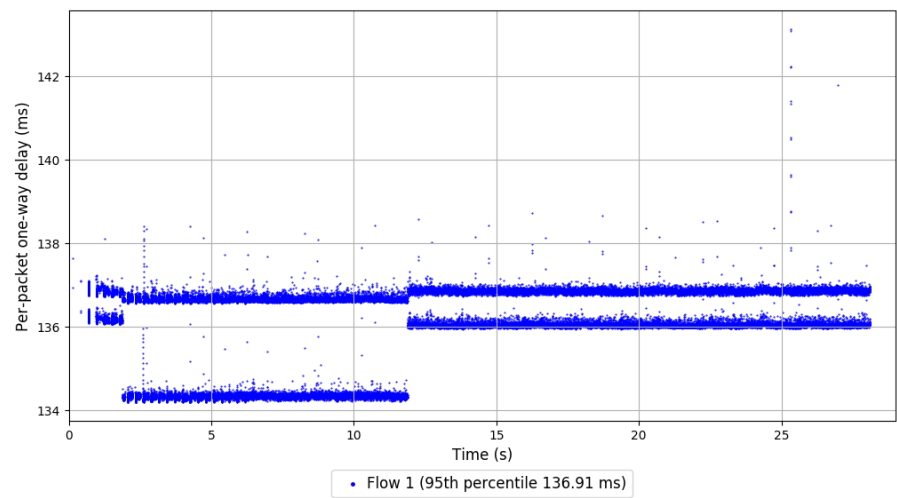
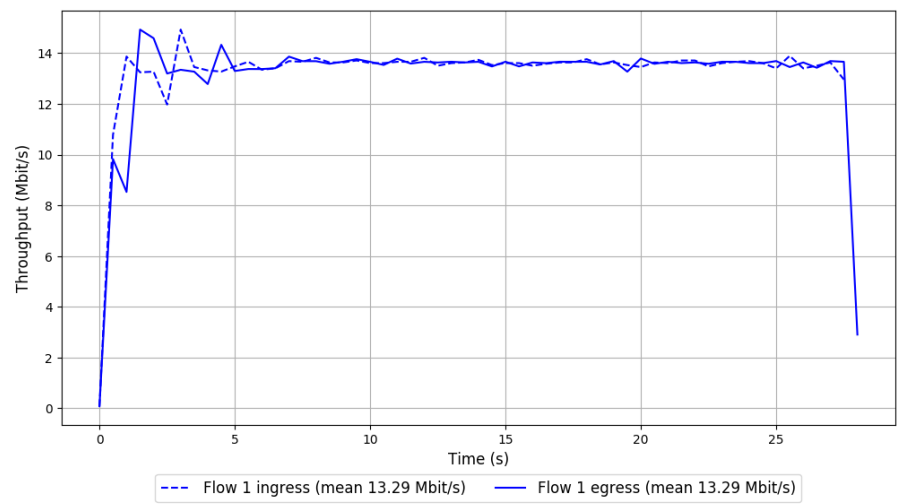


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-30 18:52:00
End at: 2017-11-30 18:52:30

# Below is generated by plot.py at 2017-11-30 19:50:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.29 Mbit/s
95th percentile per-packet one-way delay: 136.906 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.29 Mbit/s
95th percentile per-packet one-way delay: 136.906 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-30 17:15:03

End at: 2017-11-30 17:15:33

Below is generated by plot.py at 2017-11-30 19:50:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.19 Mbit/s

95th percentile per-packet one-way delay: 138.727 ms

Loss rate: 0.20%

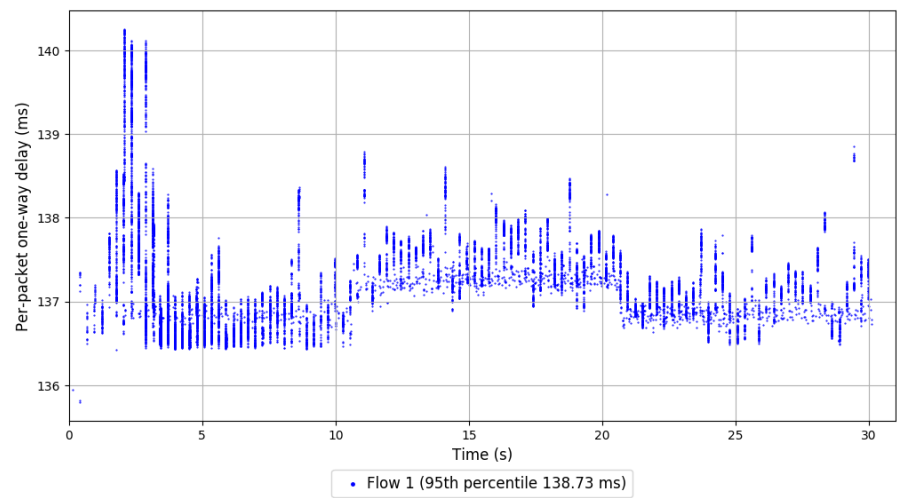
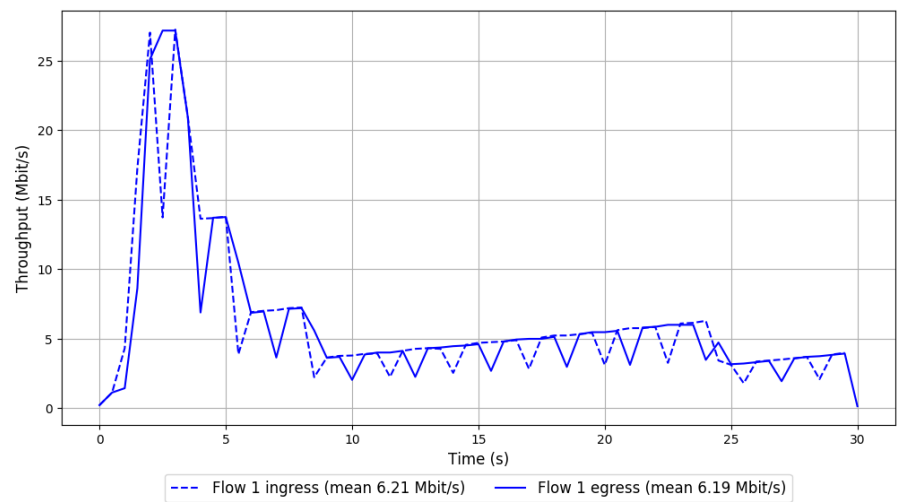
-- Flow 1:

Average throughput: 6.19 Mbit/s

95th percentile per-packet one-way delay: 138.727 ms

Loss rate: 0.20%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-30 17:26:17

End at: 2017-11-30 17:26:47

Below is generated by plot.py at 2017-11-30 19:50:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.11 Mbit/s

95th percentile per-packet one-way delay: 138.802 ms

Loss rate: 0.00%

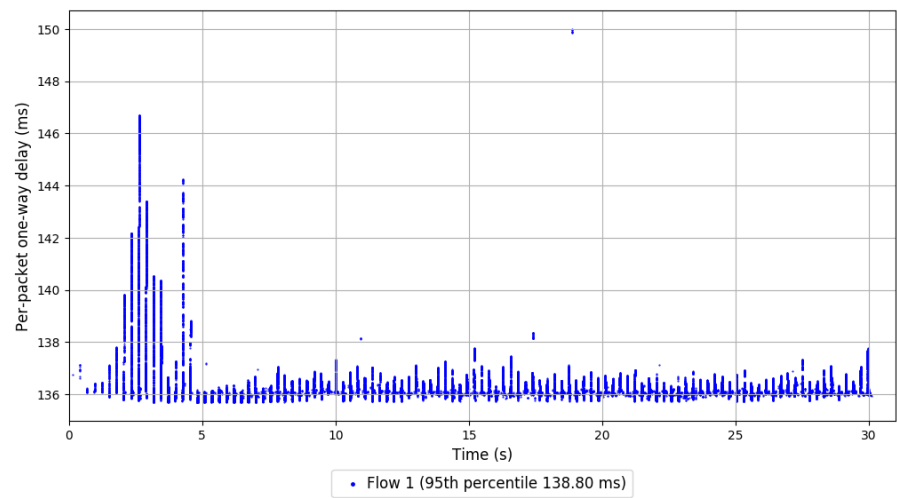
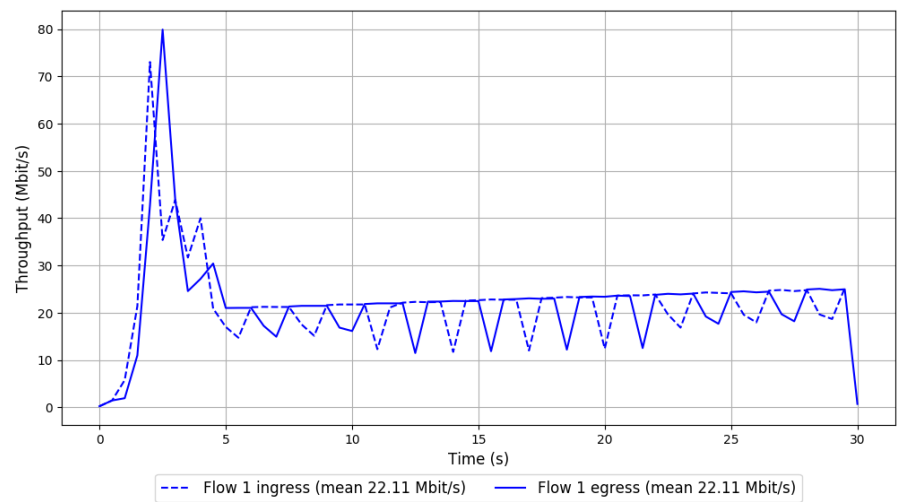
-- Flow 1:

Average throughput: 22.11 Mbit/s

95th percentile per-packet one-way delay: 138.802 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-30 17:37:28

End at: 2017-11-30 17:37:58

Below is generated by plot.py at 2017-11-30 19:50:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.52 Mbit/s

95th percentile per-packet one-way delay: 137.854 ms

Loss rate: 0.02%

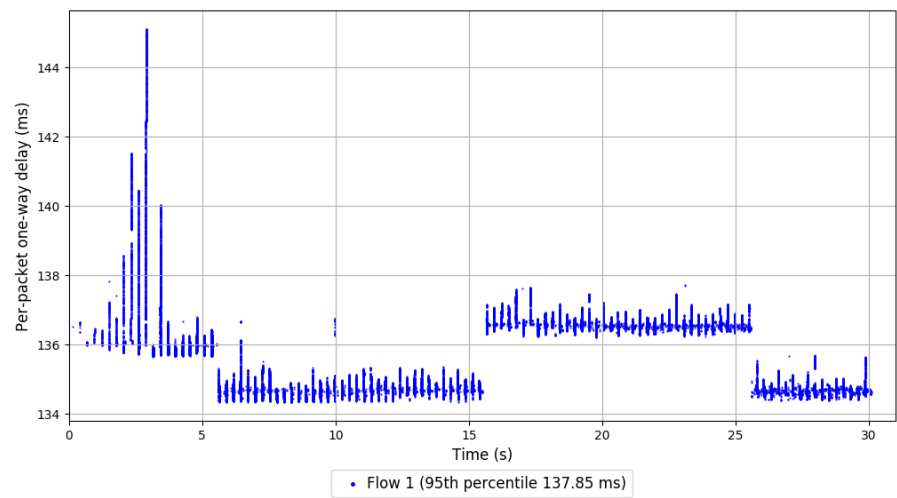
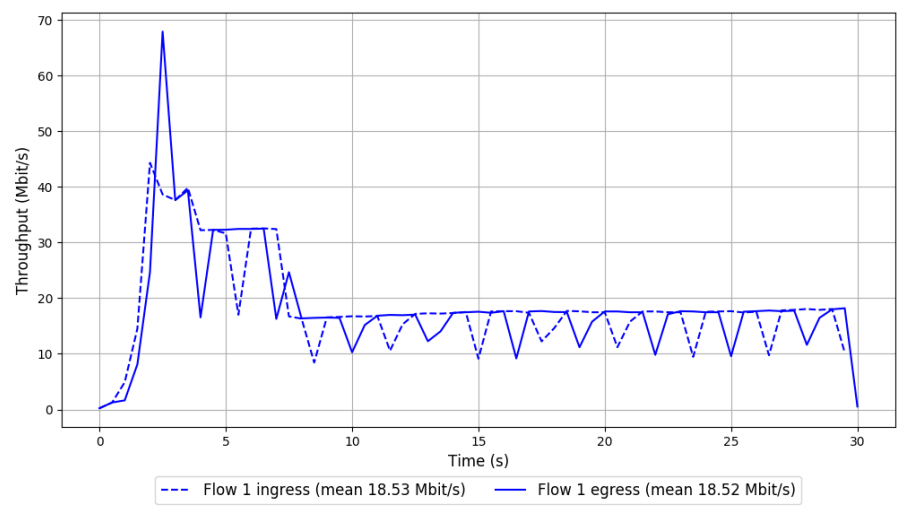
-- Flow 1:

Average throughput: 18.52 Mbit/s

95th percentile per-packet one-way delay: 137.854 ms

Loss rate: 0.02%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-30 17:48:20

End at: 2017-11-30 17:48:50

Below is generated by plot.py at 2017-11-30 19:50:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.12 Mbit/s

95th percentile per-packet one-way delay: 137.008 ms

Loss rate: 0.01%

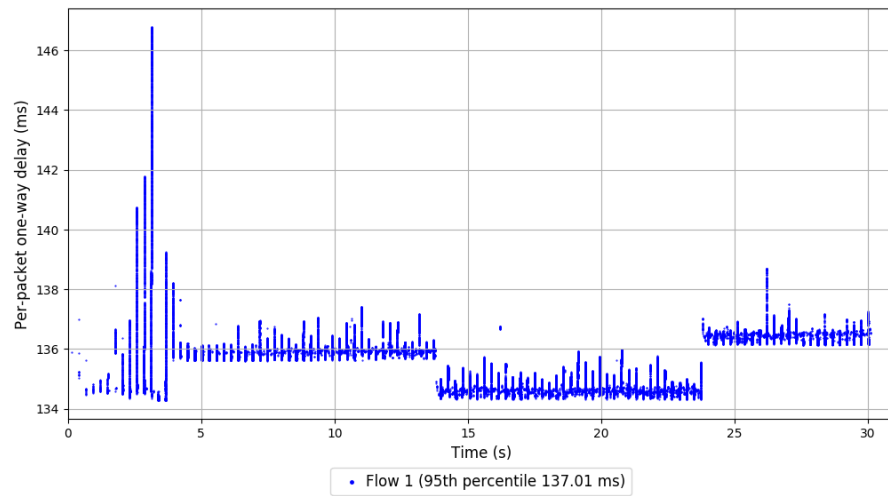
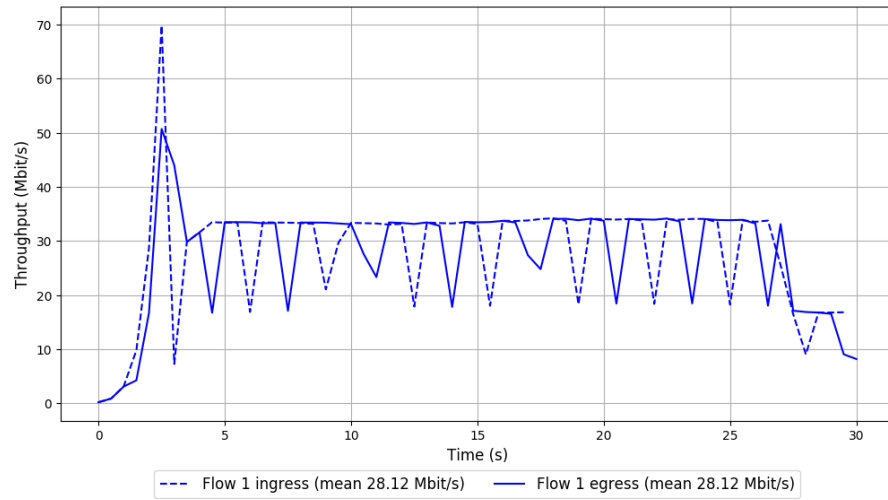
-- Flow 1:

Average throughput: 28.12 Mbit/s

95th percentile per-packet one-way delay: 137.008 ms

Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-30 17:59:05

End at: 2017-11-30 17:59:35

Below is generated by plot.py at 2017-11-30 19:50:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.12 Mbit/s

95th percentile per-packet one-way delay: 137.118 ms

Loss rate: 0.00%

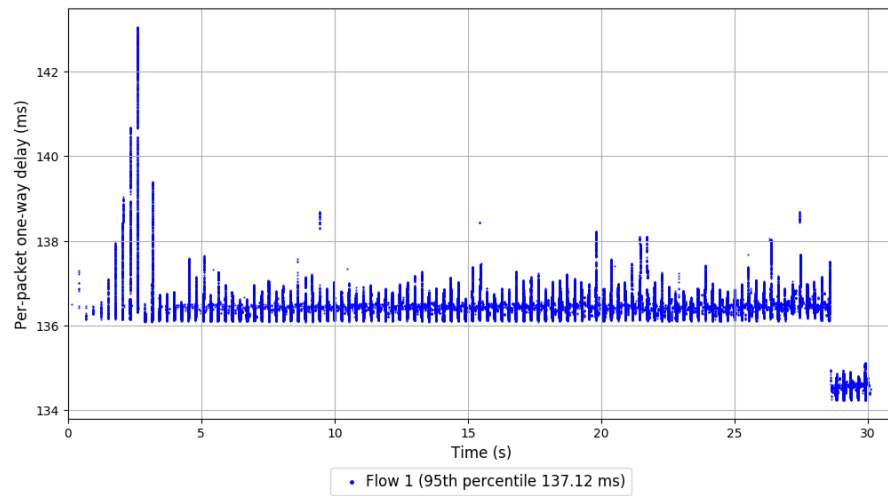
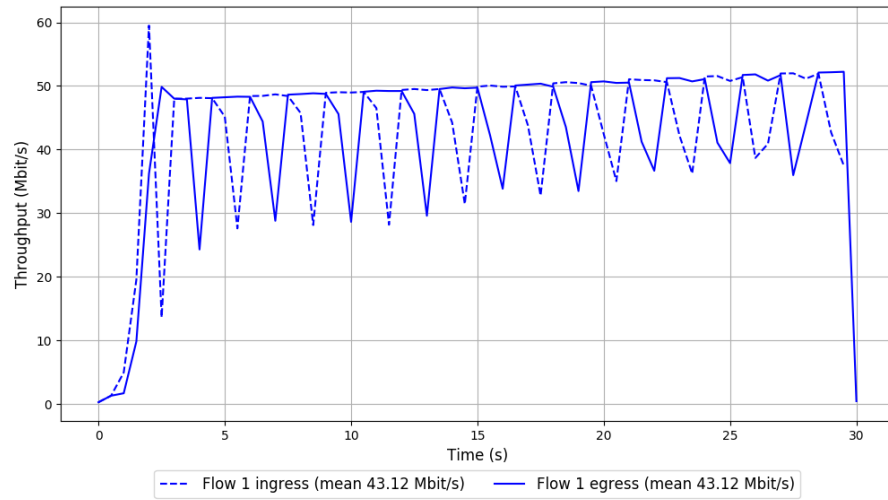
-- Flow 1:

Average throughput: 43.12 Mbit/s

95th percentile per-packet one-way delay: 137.118 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-30 18:09:58

End at: 2017-11-30 18:10:28

Below is generated by plot.py at 2017-11-30 19:50:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.47 Mbit/s

95th percentile per-packet one-way delay: 137.420 ms

Loss rate: 0.00%

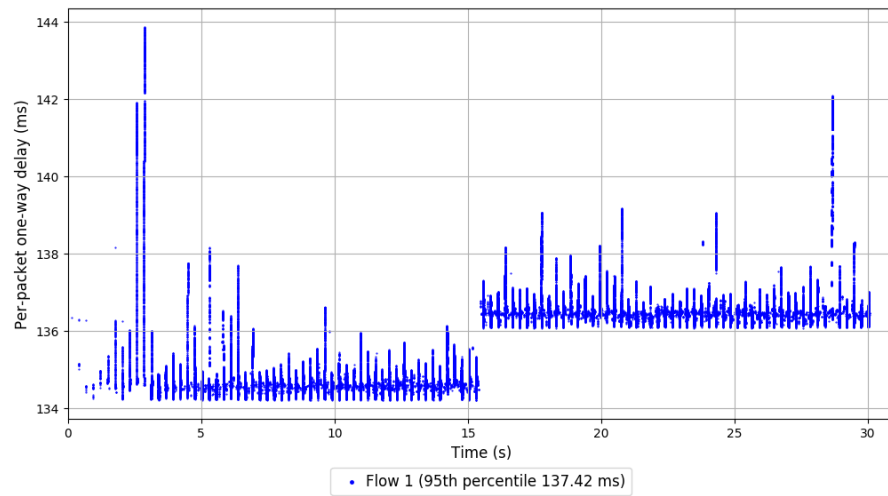
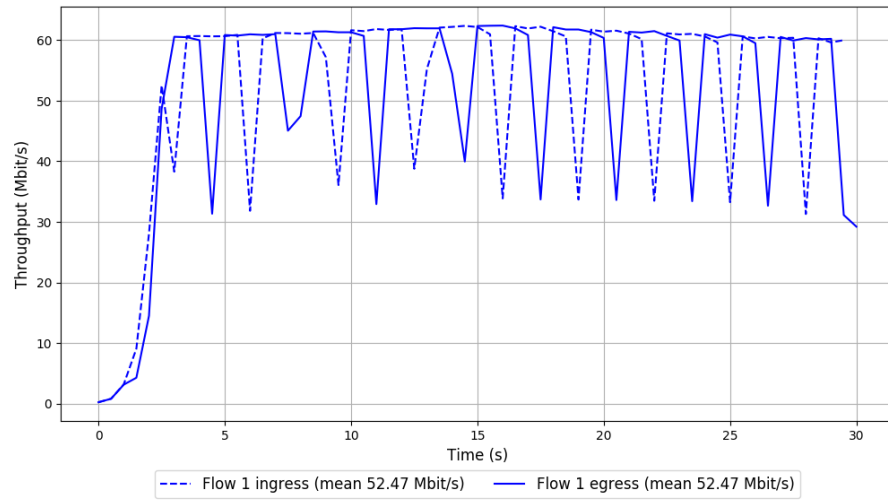
-- Flow 1:

Average throughput: 52.47 Mbit/s

95th percentile per-packet one-way delay: 137.420 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-30 18:21:08

End at: 2017-11-30 18:21:38

Below is generated by plot.py at 2017-11-30 19:50:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.79 Mbit/s

95th percentile per-packet one-way delay: 136.762 ms

Loss rate: 0.00%

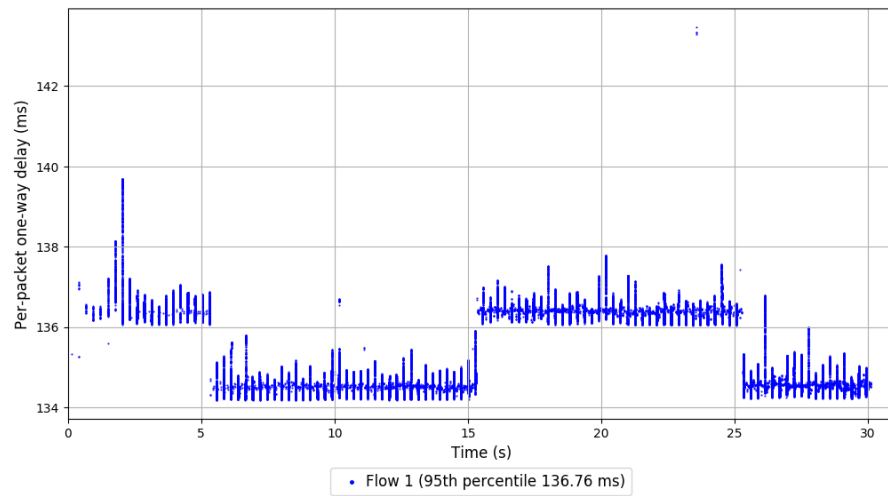
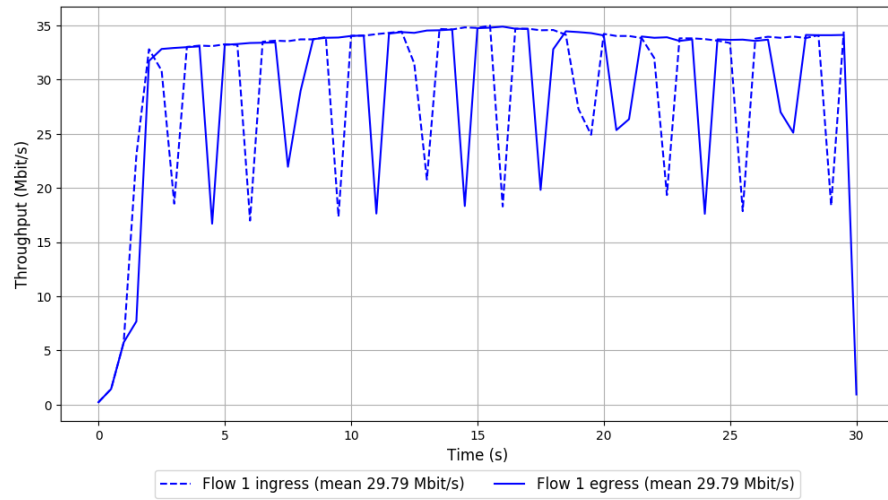
-- Flow 1:

Average throughput: 29.79 Mbit/s

95th percentile per-packet one-way delay: 136.762 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-30 18:32:30

End at: 2017-11-30 18:33:00

Below is generated by plot.py at 2017-11-30 19:50:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.18 Mbit/s

95th percentile per-packet one-way delay: 137.725 ms

Loss rate: 0.00%

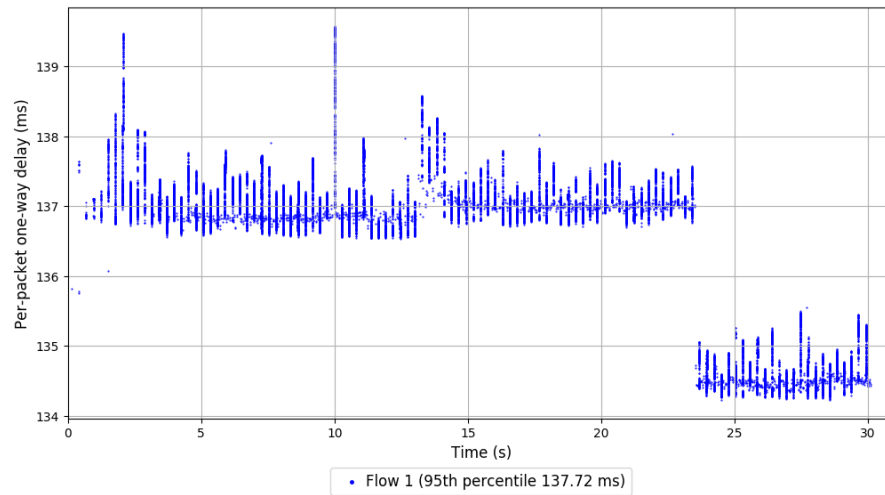
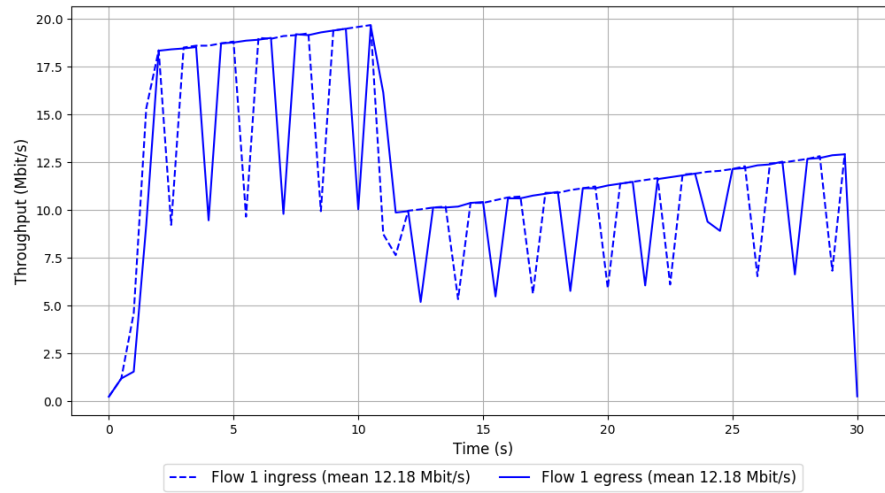
-- Flow 1:

Average throughput: 12.18 Mbit/s

95th percentile per-packet one-way delay: 137.725 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-30 18:44:09

End at: 2017-11-30 18:44:39

Below is generated by plot.py at 2017-11-30 19:50:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.14 Mbit/s

95th percentile per-packet one-way delay: 141.739 ms

Loss rate: 0.01%

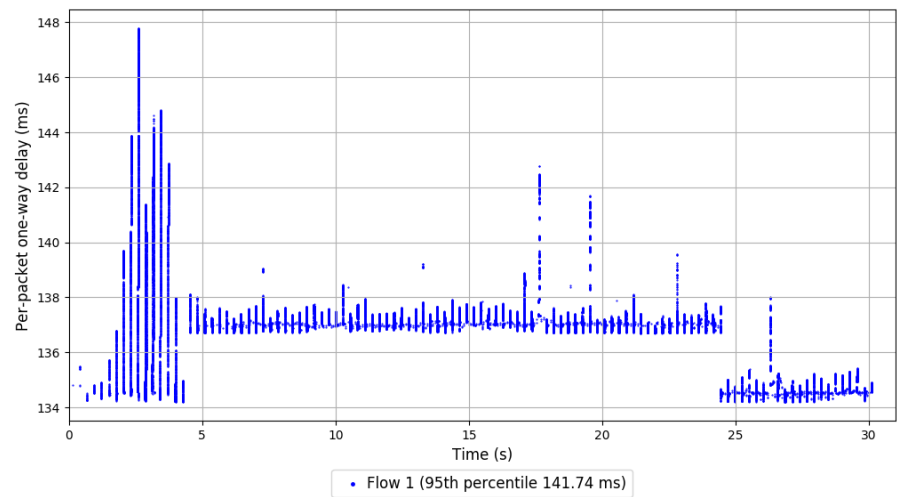
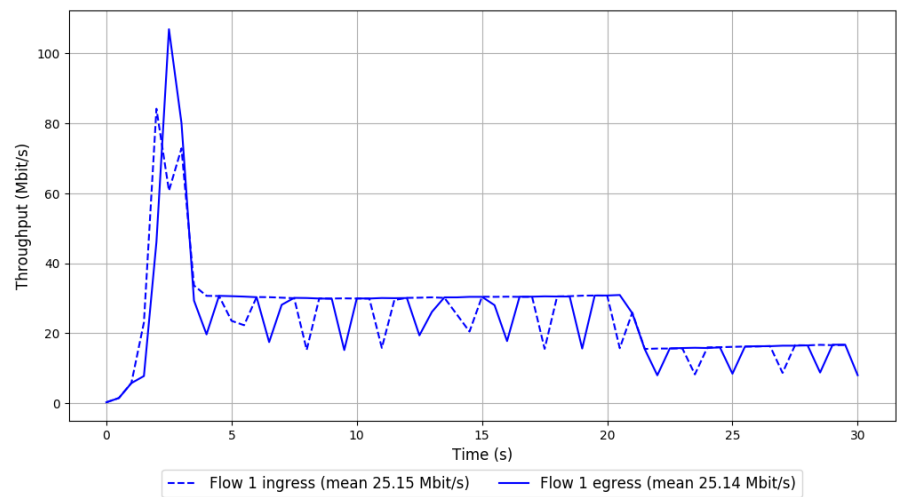
-- Flow 1:

Average throughput: 25.14 Mbit/s

95th percentile per-packet one-way delay: 141.739 ms

Loss rate: 0.01%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-30 18:55:01

End at: 2017-11-30 18:55:31

Below is generated by plot.py at 2017-11-30 19:50:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.68 Mbit/s

95th percentile per-packet one-way delay: 143.703 ms

Loss rate: 0.01%

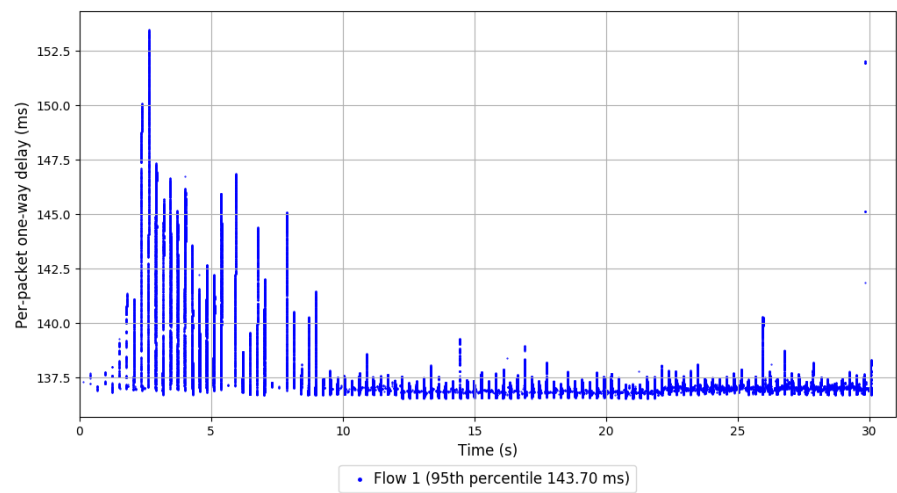
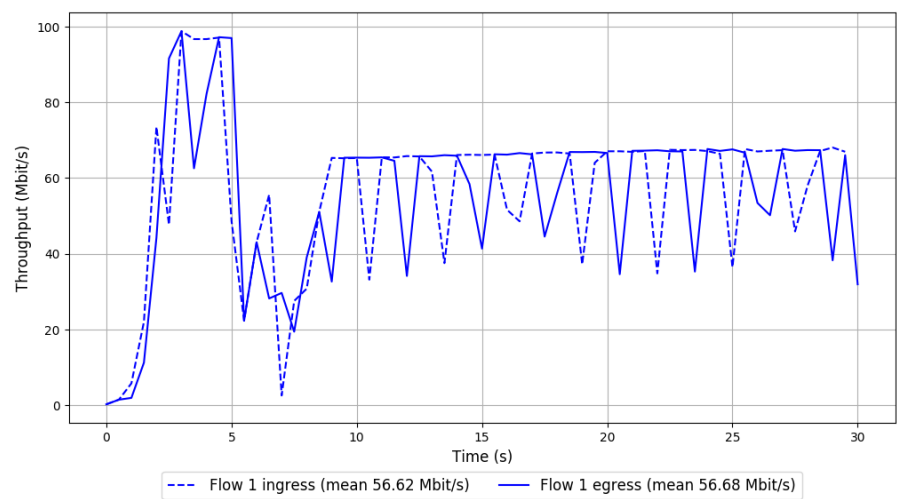
-- Flow 1:

Average throughput: 56.68 Mbit/s

95th percentile per-packet one-way delay: 143.703 ms

Loss rate: 0.01%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-11-30 17:11:08

End at: 2017-11-30 17:11:38

Below is generated by plot.py at 2017-11-30 19:51:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 147.90 Mbit/s

95th percentile per-packet one-way delay: 292.949 ms

Loss rate: 8.81%

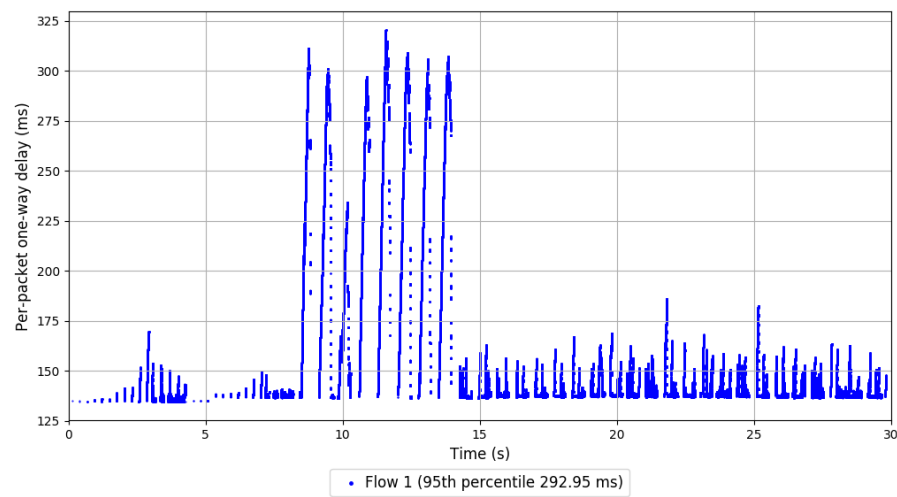
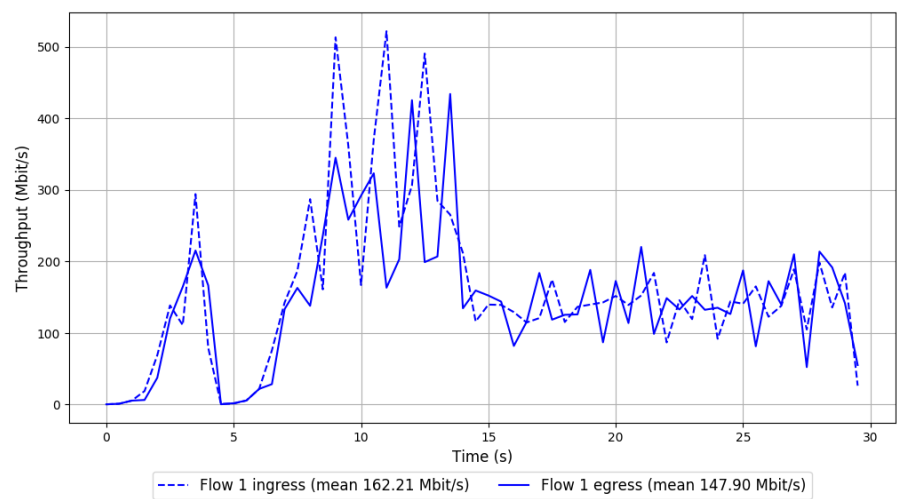
-- Flow 1:

Average throughput: 147.90 Mbit/s

95th percentile per-packet one-way delay: 292.949 ms

Loss rate: 8.81%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-30 17:22:21

End at: 2017-11-30 17:22:51

Below is generated by plot.py at 2017-11-30 19:51:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.30 Mbit/s

95th percentile per-packet one-way delay: 155.763 ms

Loss rate: 1.63%

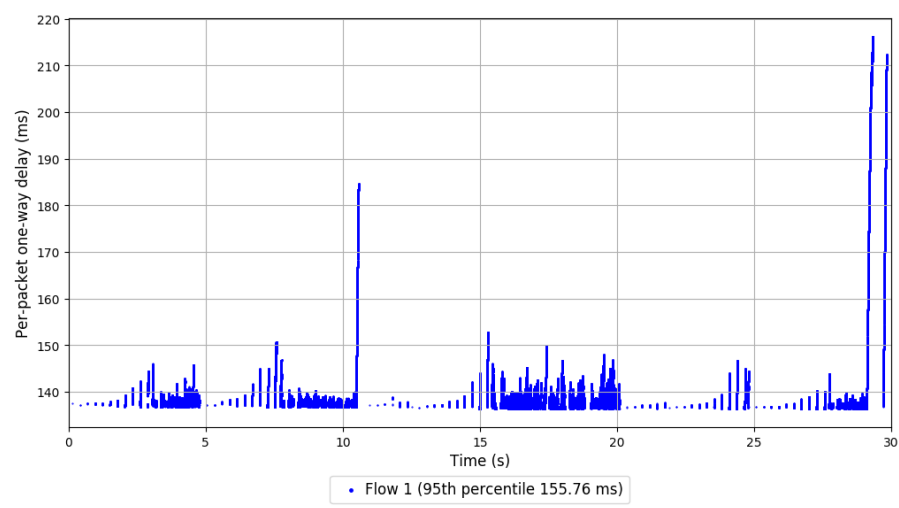
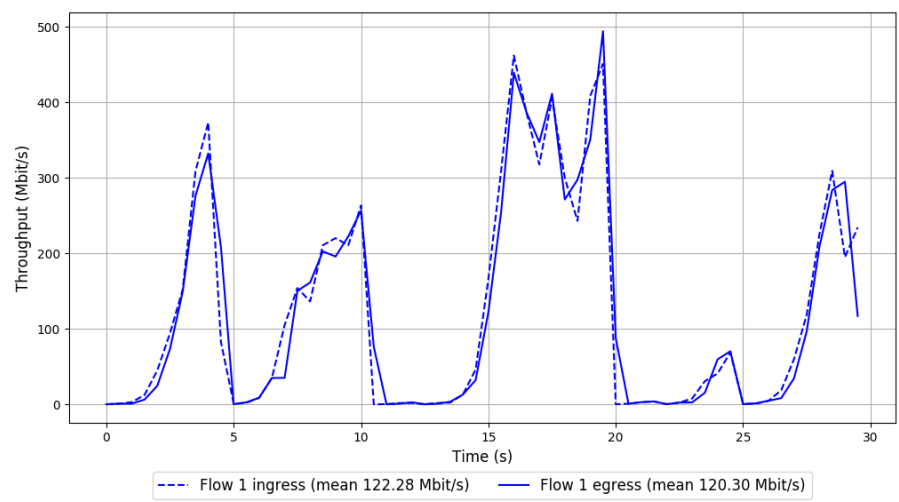
-- Flow 1:

Average throughput: 120.30 Mbit/s

95th percentile per-packet one-way delay: 155.763 ms

Loss rate: 1.63%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-30 17:33:13

End at: 2017-11-30 17:33:43

Below is generated by plot.py at 2017-11-30 19:52:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.22 Mbit/s

95th percentile per-packet one-way delay: 180.882 ms

Loss rate: 0.50%

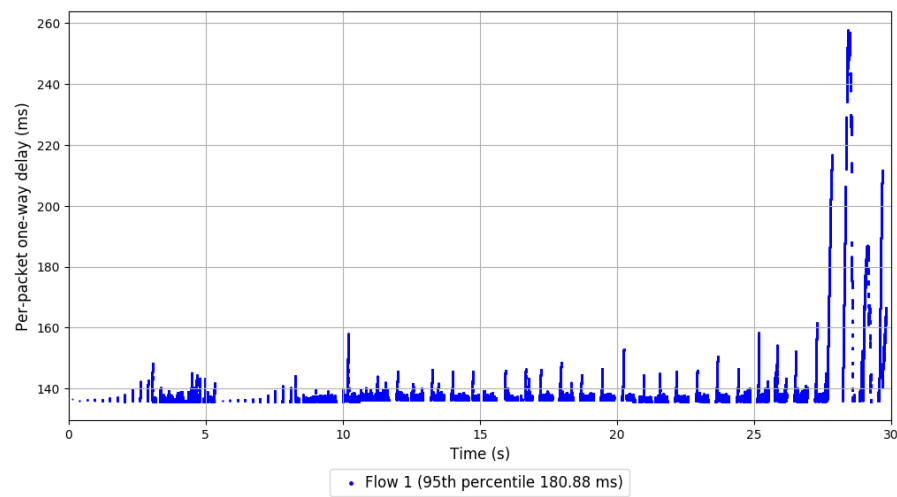
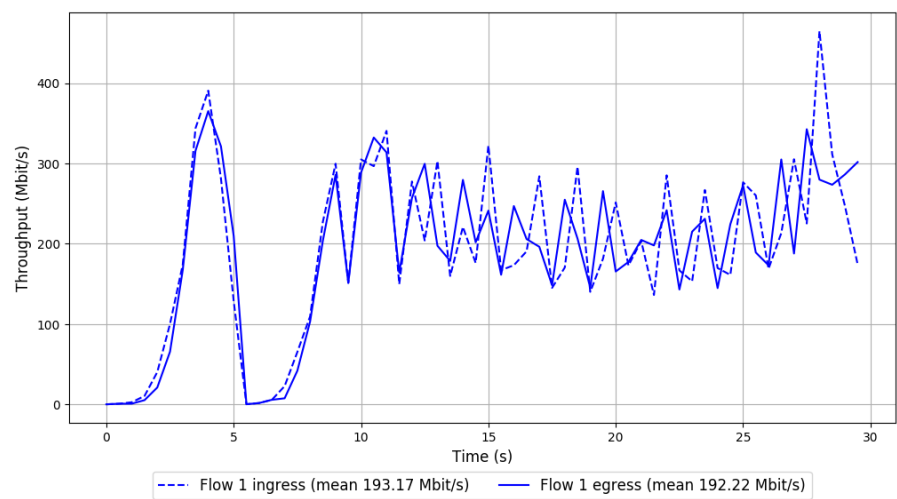
-- Flow 1:

Average throughput: 192.22 Mbit/s

95th percentile per-packet one-way delay: 180.882 ms

Loss rate: 0.50%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-30 17:44:23

End at: 2017-11-30 17:44:53

Below is generated by plot.py at 2017-11-30 19:52:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.95 Mbit/s

95th percentile per-packet one-way delay: 144.695 ms

Loss rate: 0.22%

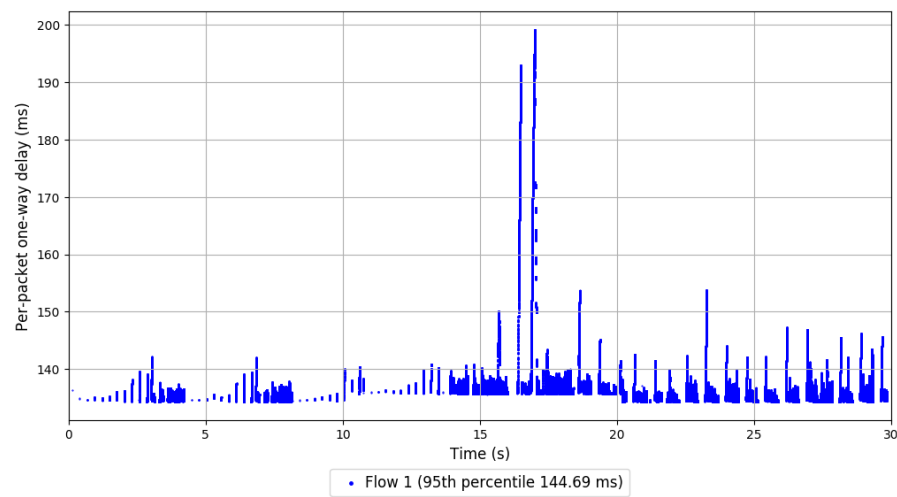
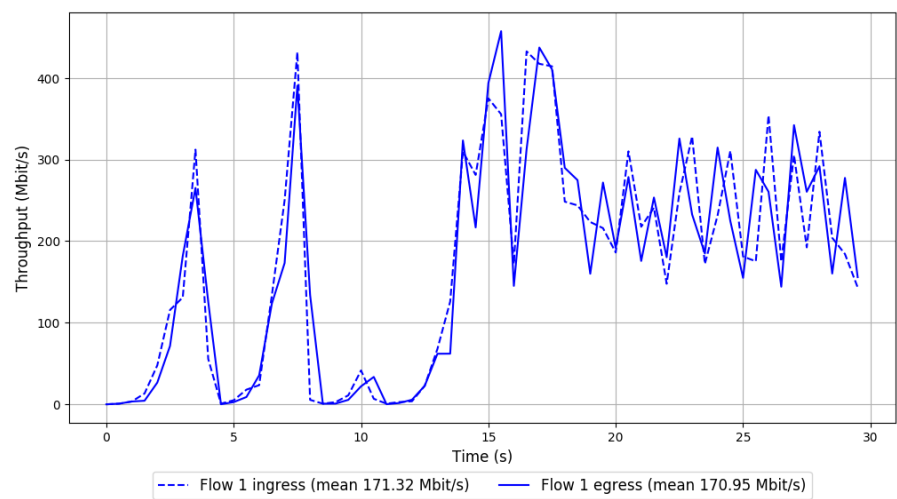
-- Flow 1:

Average throughput: 170.95 Mbit/s

95th percentile per-packet one-way delay: 144.695 ms

Loss rate: 0.22%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-30 17:55:16

End at: 2017-11-30 17:55:46

Below is generated by plot.py at 2017-11-30 19:52:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.86 Mbit/s

95th percentile per-packet one-way delay: 143.673 ms

Loss rate: 0.00%

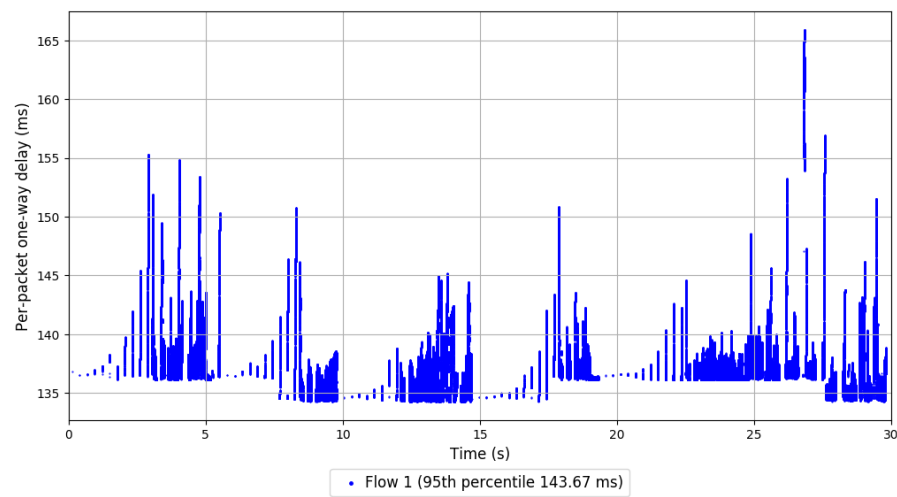
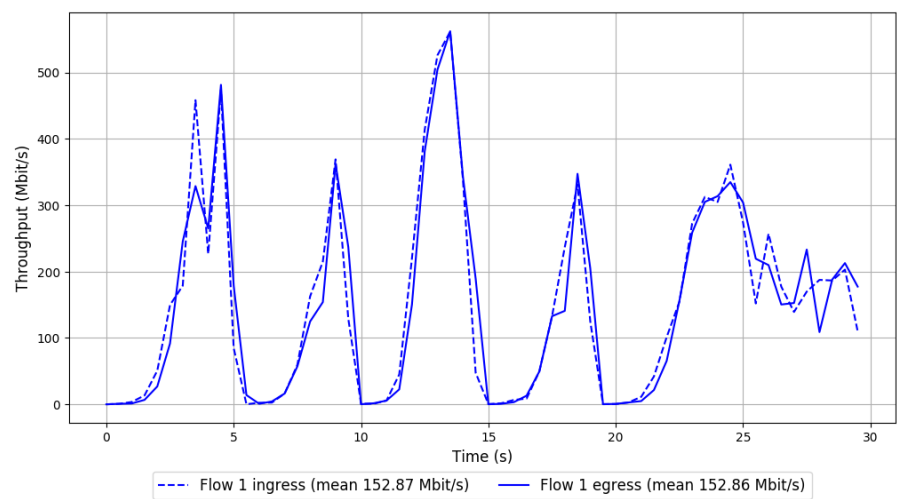
-- Flow 1:

Average throughput: 152.86 Mbit/s

95th percentile per-packet one-way delay: 143.673 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-30 18:06:01

End at: 2017-11-30 18:06:31

Below is generated by plot.py at 2017-11-30 19:52:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.25 Mbit/s

95th percentile per-packet one-way delay: 207.491 ms

Loss rate: 1.57%

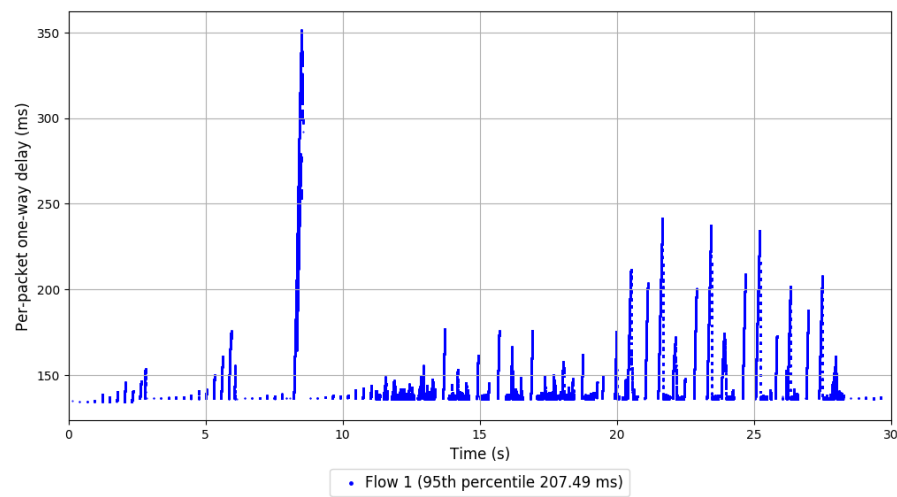
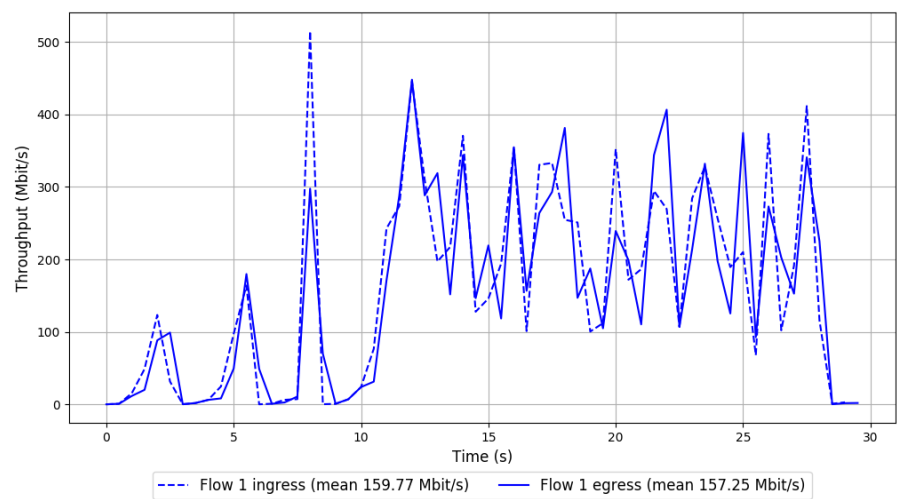
-- Flow 1:

Average throughput: 157.25 Mbit/s

95th percentile per-packet one-way delay: 207.491 ms

Loss rate: 1.57%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-30 18:17:22

End at: 2017-11-30 18:17:52

Below is generated by plot.py at 2017-11-30 19:52:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 116.07 Mbit/s

95th percentile per-packet one-way delay: 141.528 ms

Loss rate: 0.00%

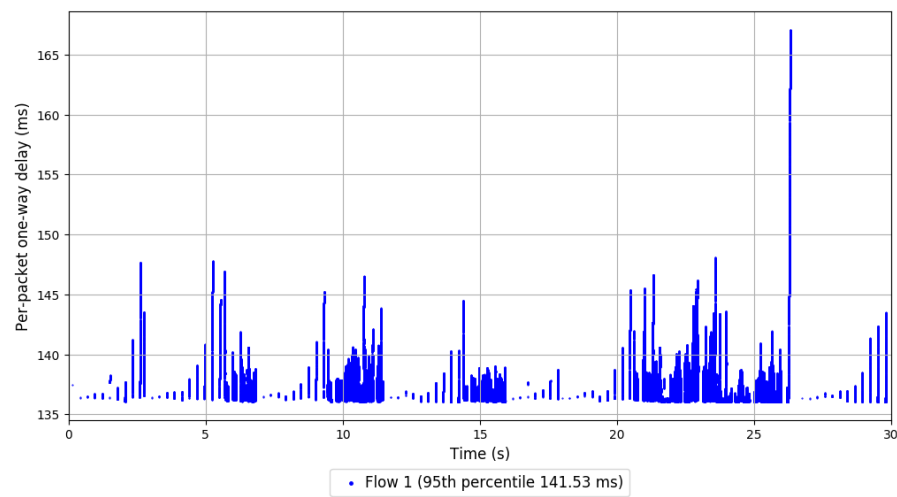
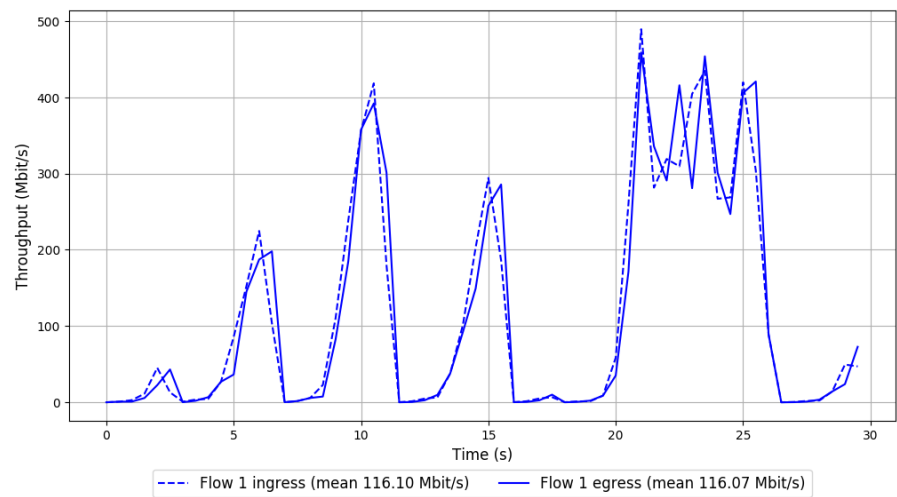
-- Flow 1:

Average throughput: 116.07 Mbit/s

95th percentile per-packet one-way delay: 141.528 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-30 18:28:28

End at: 2017-11-30 18:28:58

Below is generated by plot.py at 2017-11-30 19:54:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.61 Mbit/s

95th percentile per-packet one-way delay: 146.511 ms

Loss rate: 0.00%

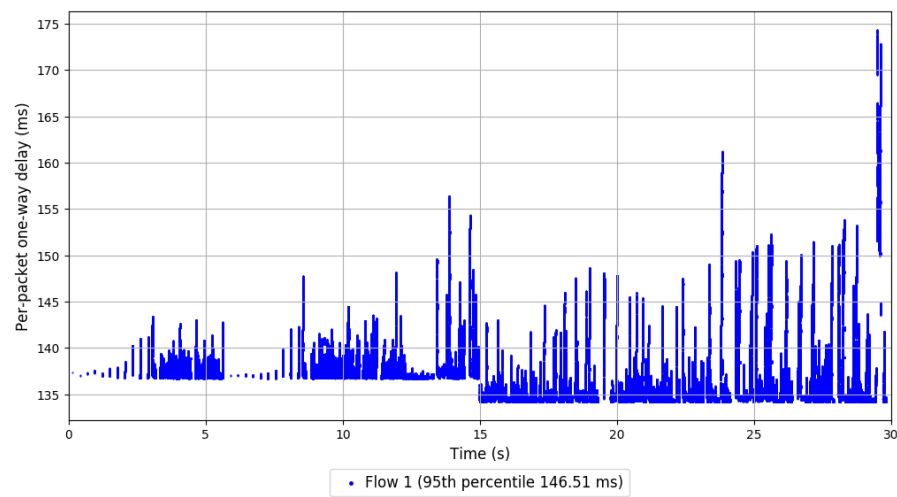
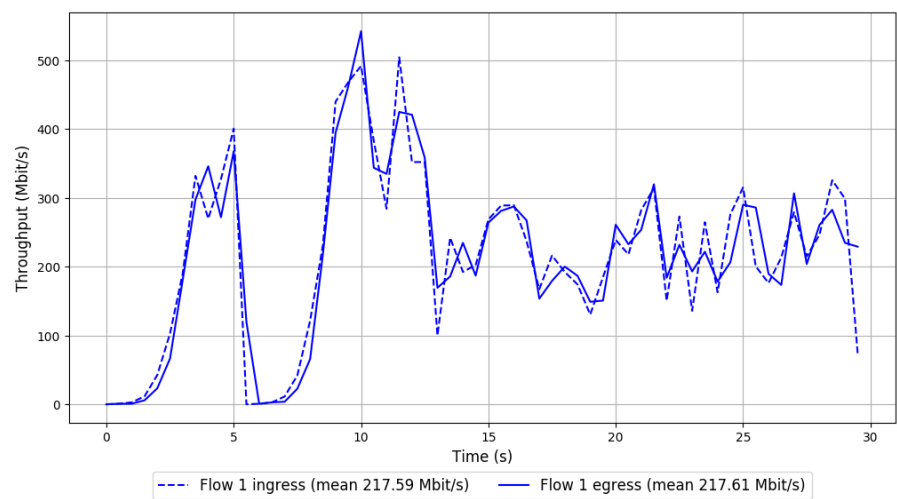
-- Flow 1:

Average throughput: 217.61 Mbit/s

95th percentile per-packet one-way delay: 146.511 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-30 18:39:51

End at: 2017-11-30 18:40:21

Below is generated by plot.py at 2017-11-30 19:54:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.73 Mbit/s

95th percentile per-packet one-way delay: 163.521 ms

Loss rate: 0.02%

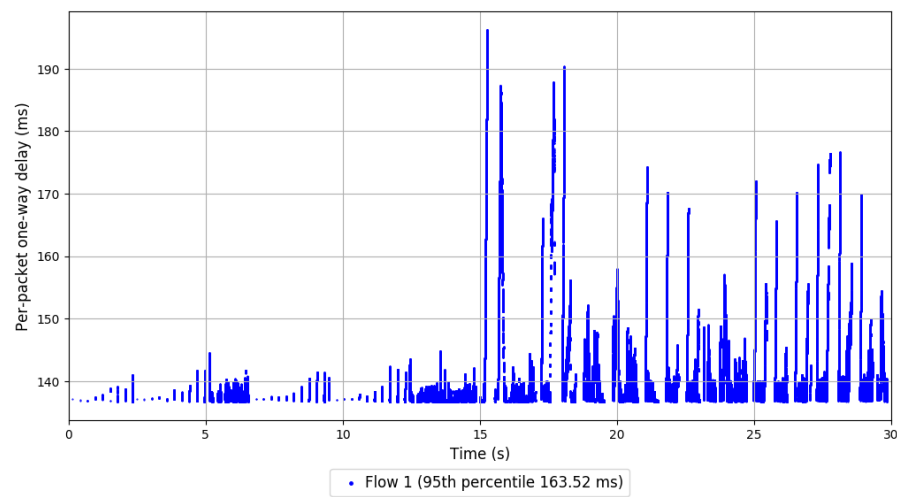
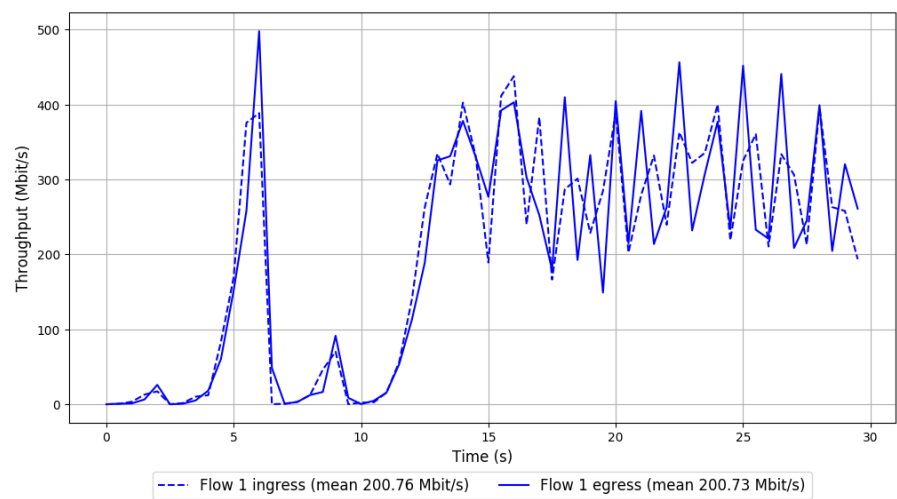
-- Flow 1:

Average throughput: 200.73 Mbit/s

95th percentile per-packet one-way delay: 163.521 ms

Loss rate: 0.02%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-30 18:51:05

End at: 2017-11-30 18:51:35

Below is generated by plot.py at 2017-11-30 19:54:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.97 Mbit/s

95th percentile per-packet one-way delay: 249.664 ms

Loss rate: 2.42%

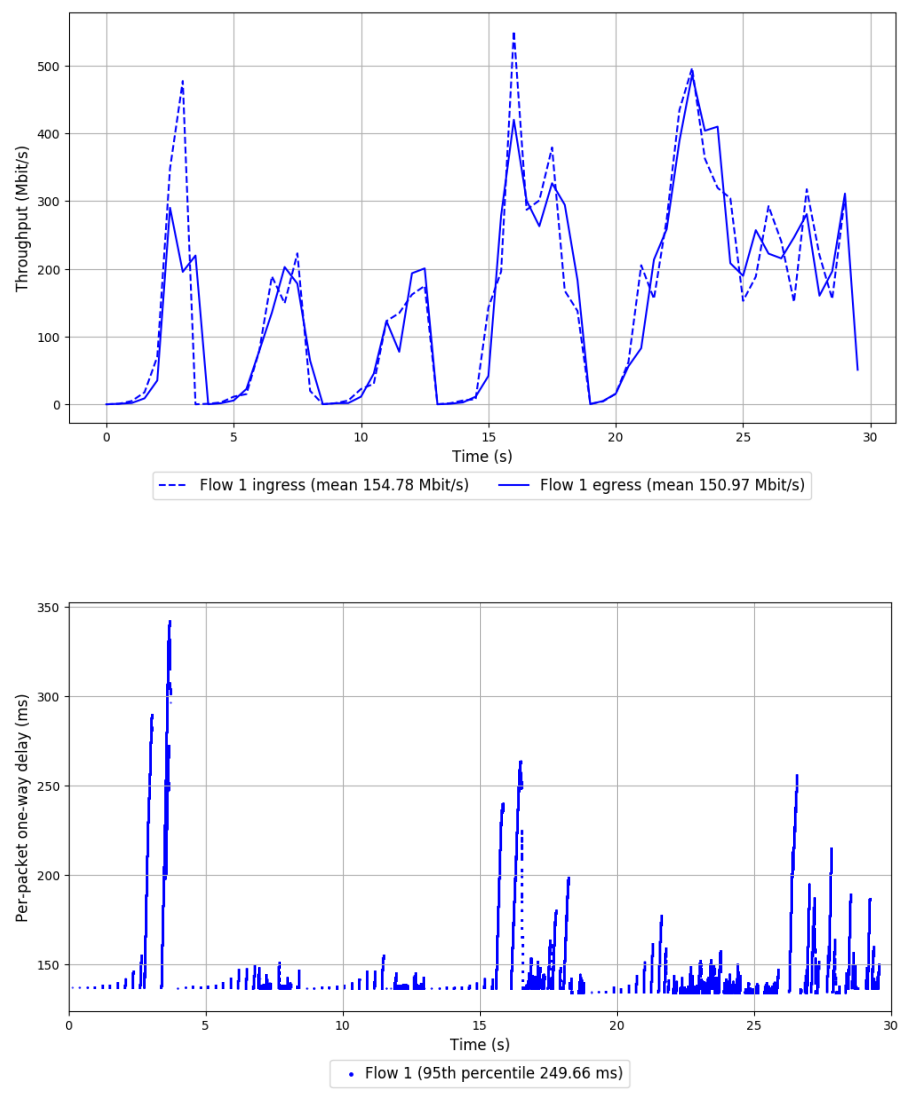
-- Flow 1:

Average throughput: 150.97 Mbit/s

95th percentile per-packet one-way delay: 249.664 ms

Loss rate: 2.42%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-11-30 17:13:28

End at: 2017-11-30 17:13:58

Below is generated by plot.py at 2017-11-30 19:54:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.98 Mbit/s

95th percentile per-packet one-way delay: 136.878 ms

Loss rate: 0.00%

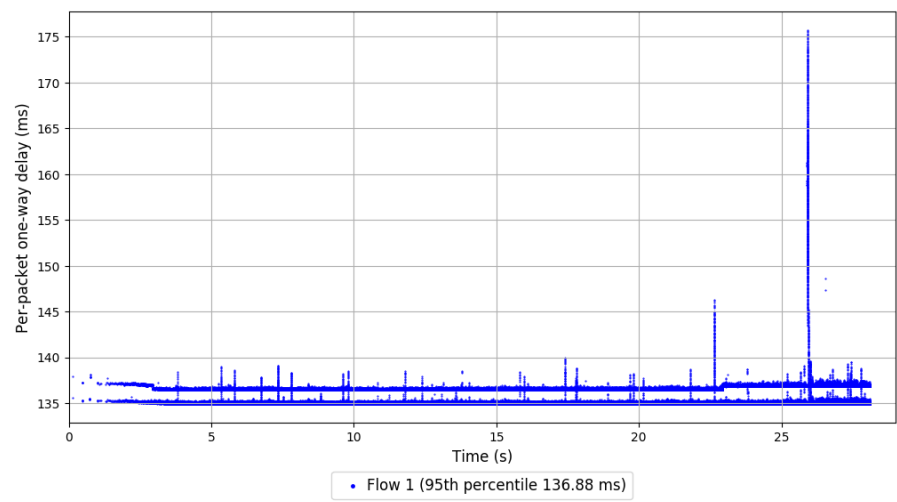
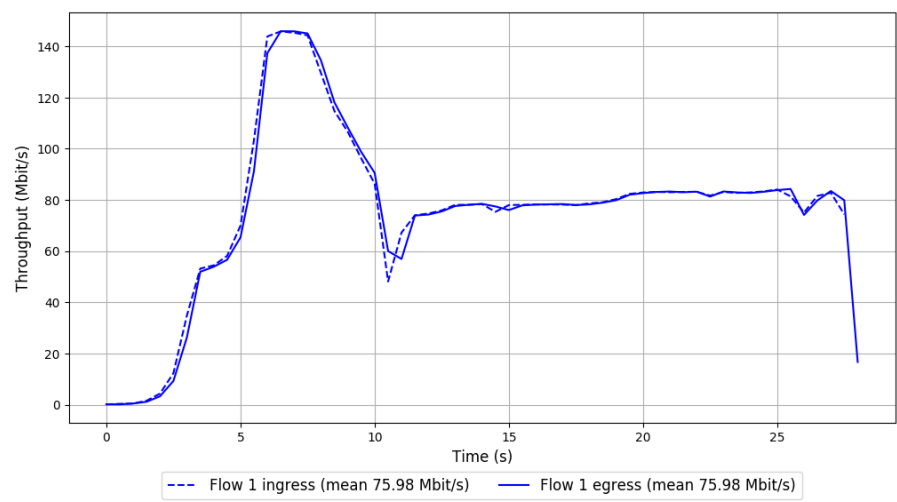
-- Flow 1:

Average throughput: 75.98 Mbit/s

95th percentile per-packet one-way delay: 136.878 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-30 17:24:40

End at: 2017-11-30 17:25:10

Below is generated by plot.py at 2017-11-30 19:54:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.91 Mbit/s

95th percentile per-packet one-way delay: 136.840 ms

Loss rate: 0.00%

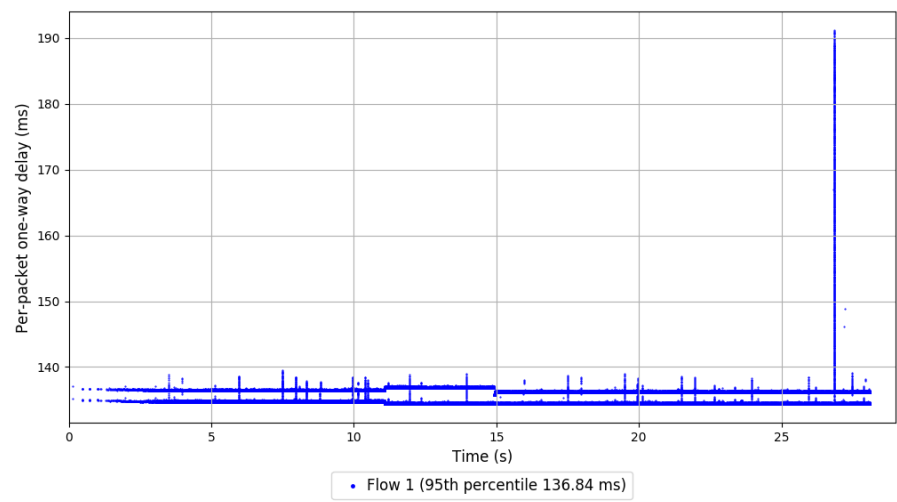
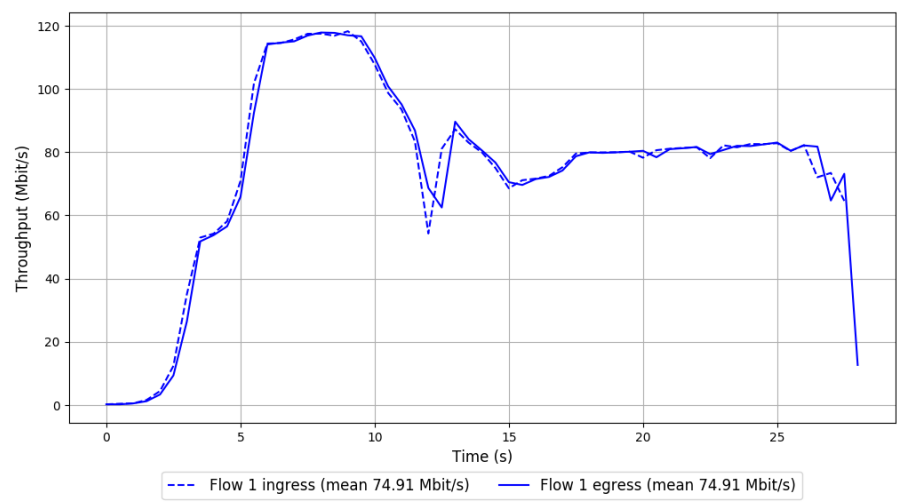
-- Flow 1:

Average throughput: 74.91 Mbit/s

95th percentile per-packet one-way delay: 136.840 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-30 17:35:53

End at: 2017-11-30 17:36:23

Below is generated by plot.py at 2017-11-30 19:54:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.41 Mbit/s

95th percentile per-packet one-way delay: 136.365 ms

Loss rate: 0.00%

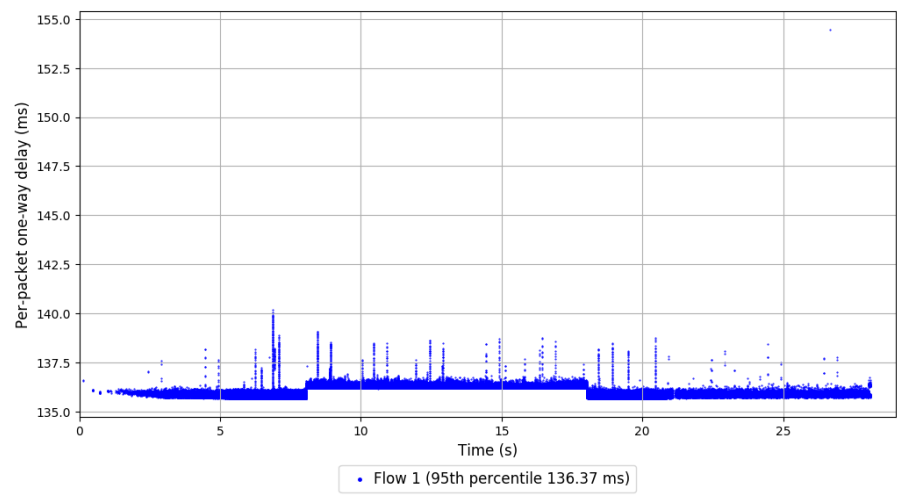
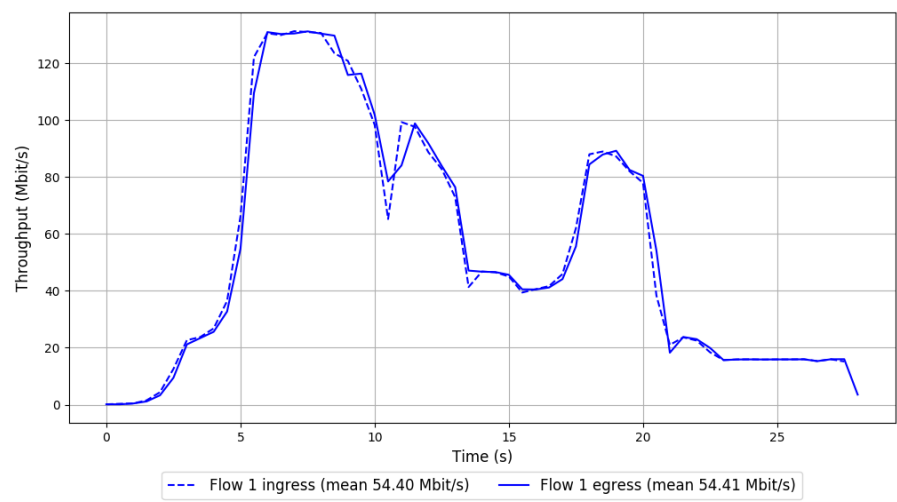
-- Flow 1:

Average throughput: 54.41 Mbit/s

95th percentile per-packet one-way delay: 136.365 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-30 17:46:46

End at: 2017-11-30 17:47:16

Below is generated by plot.py at 2017-11-30 19:54:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.10 Mbit/s

95th percentile per-packet one-way delay: 136.301 ms

Loss rate: 0.00%

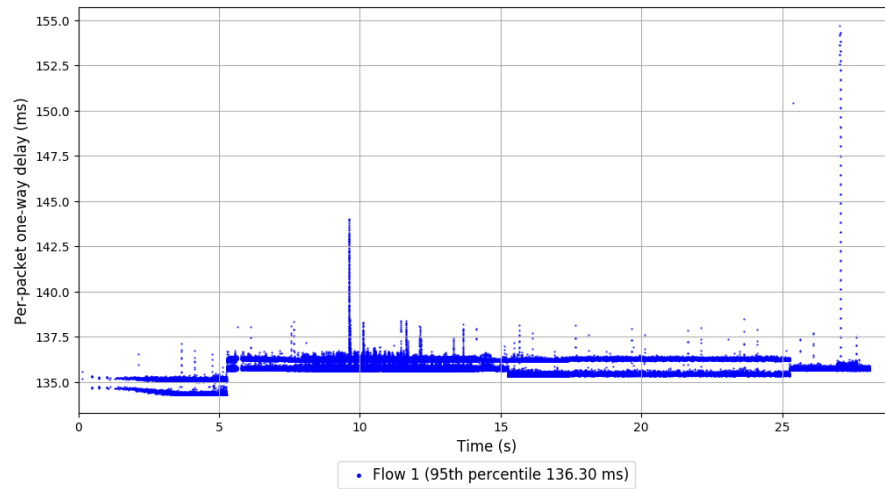
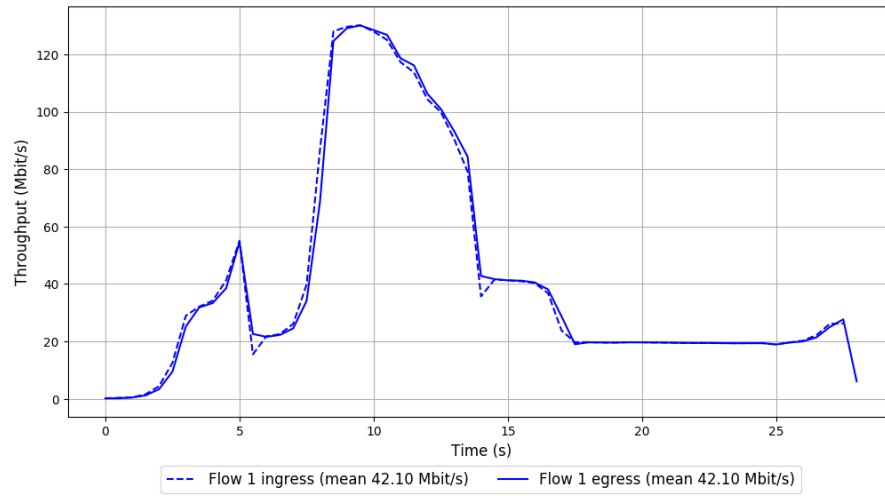
-- Flow 1:

Average throughput: 42.10 Mbit/s

95th percentile per-packet one-way delay: 136.301 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link

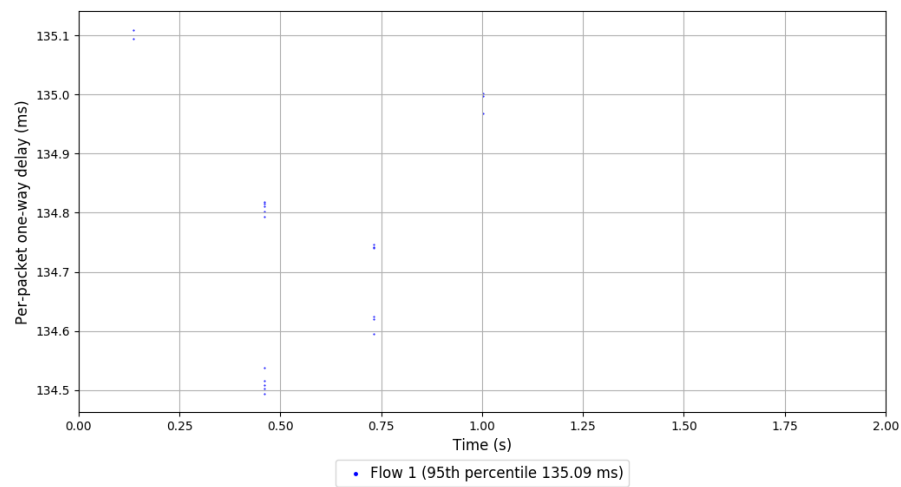
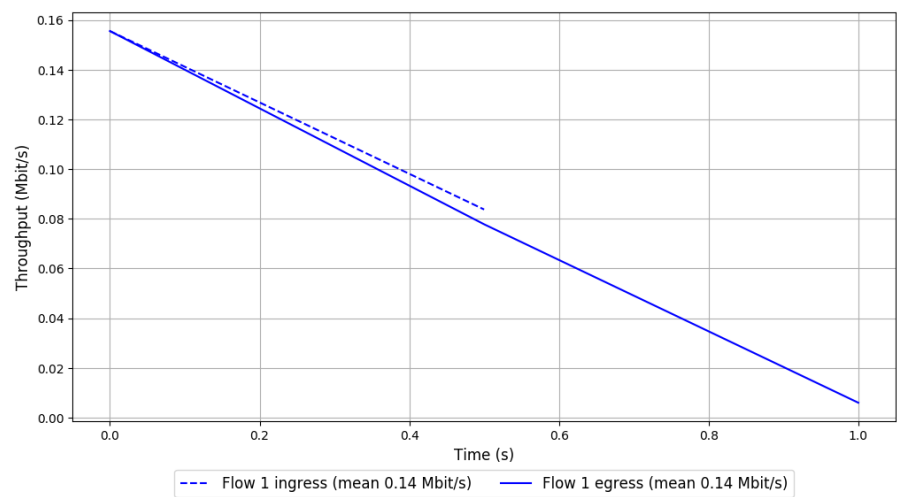


Run 5: Statistics of Copa

Start at: 2017-11-30 17:57:37

End at: 2017-11-30 17:58:07

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-30 18:08:23

End at: 2017-11-30 18:08:53

Below is generated by plot.py at 2017-11-30 19:54:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.17 Mbit/s

95th percentile per-packet one-way delay: 136.228 ms

Loss rate: 0.00%

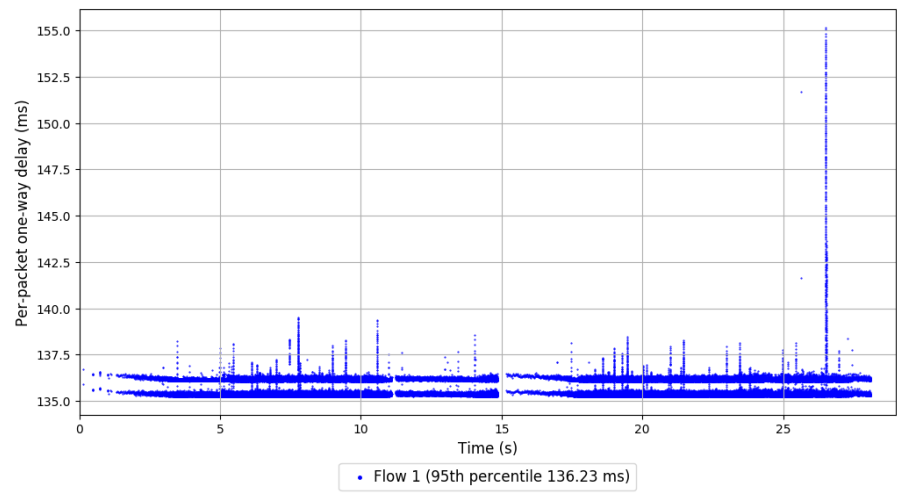
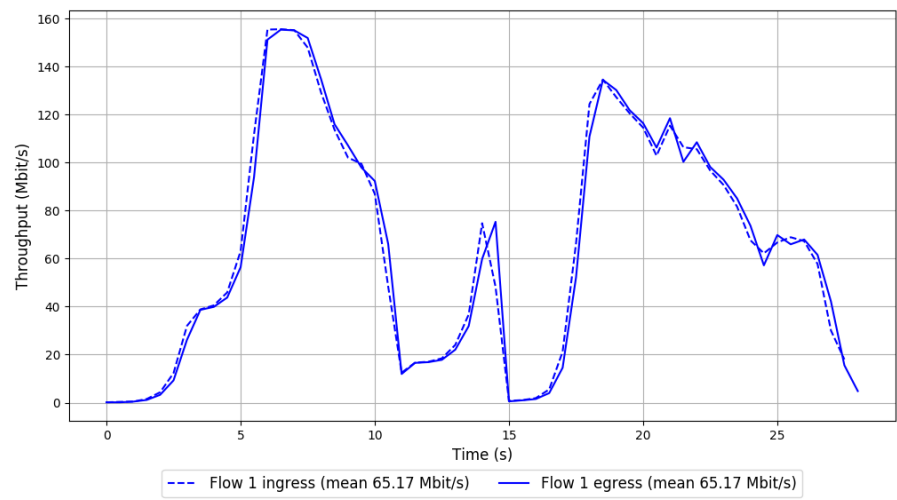
-- Flow 1:

Average throughput: 65.17 Mbit/s

95th percentile per-packet one-way delay: 136.228 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link

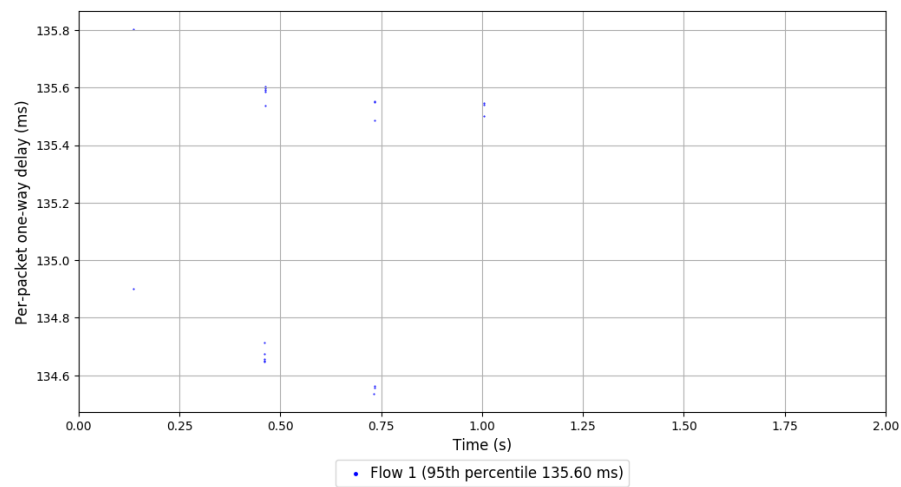
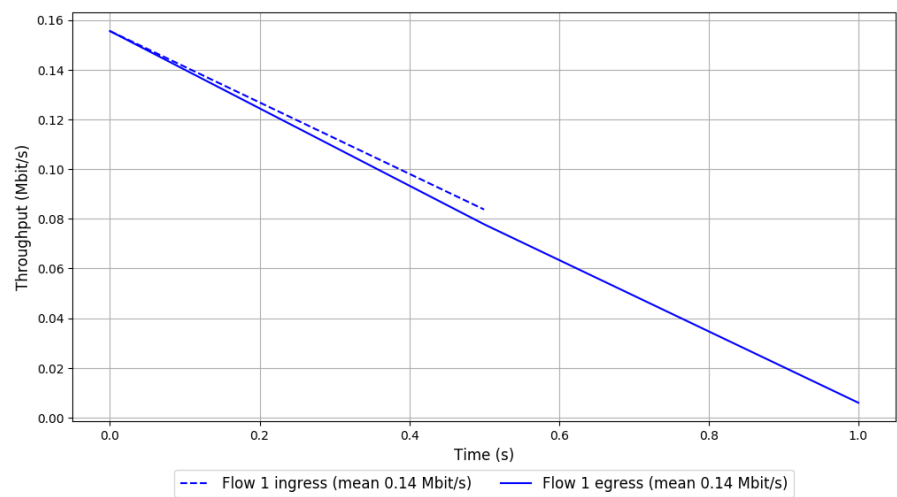


Run 7: Statistics of Copa

Start at: 2017-11-30 18:19:40

End at: 2017-11-30 18:20:10

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-30 18:30:55

End at: 2017-11-30 18:31:25

Below is generated by plot.py at 2017-11-30 19:56:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.76 Mbit/s

95th percentile per-packet one-way delay: 136.853 ms

Loss rate: 0.00%

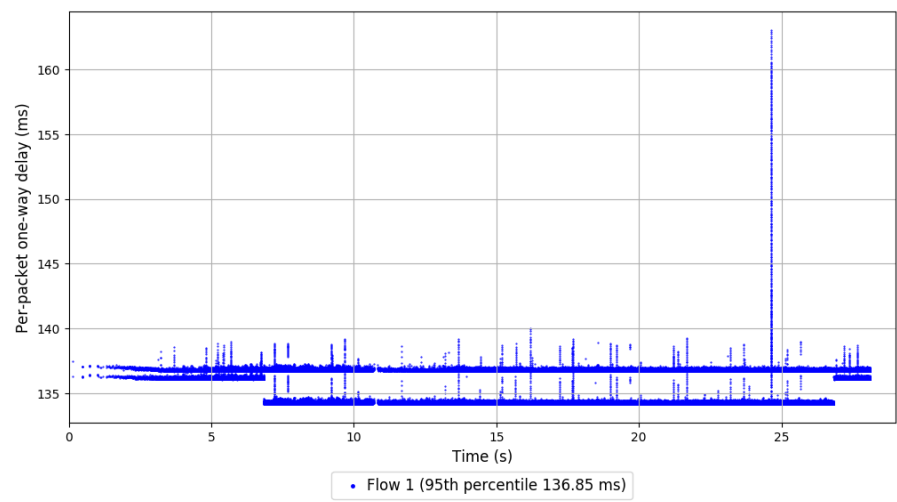
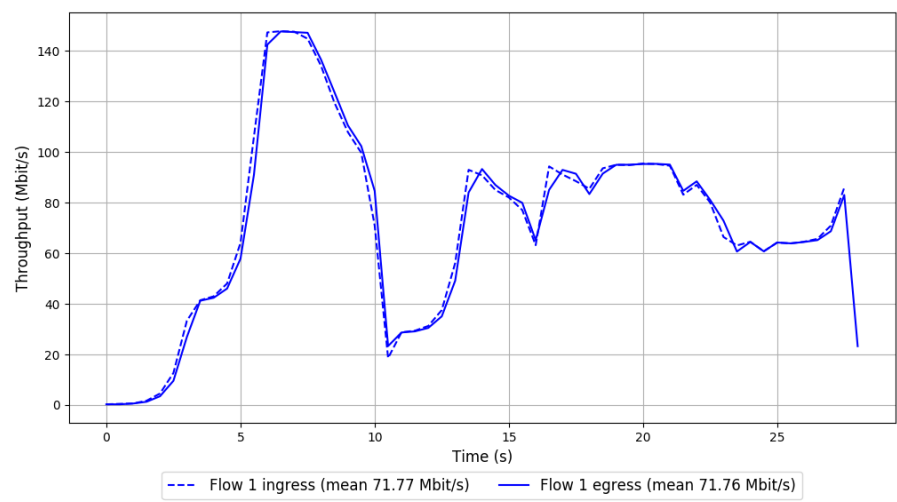
-- Flow 1:

Average throughput: 71.76 Mbit/s

95th percentile per-packet one-way delay: 136.853 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-30 18:42:33

End at: 2017-11-30 18:43:03

Below is generated by plot.py at 2017-11-30 19:56:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.51 Mbit/s

95th percentile per-packet one-way delay: 136.801 ms

Loss rate: 0.00%

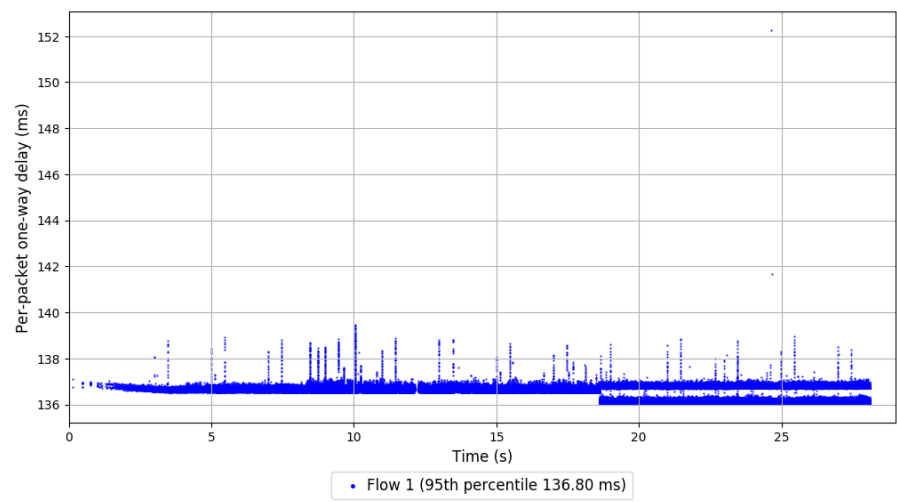
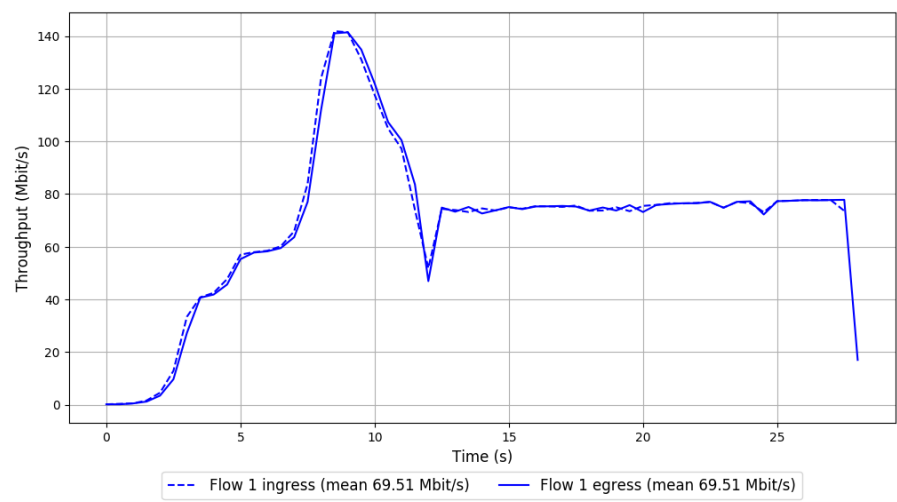
-- Flow 1:

Average throughput: 69.51 Mbit/s

95th percentile per-packet one-way delay: 136.801 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-30 18:53:26

End at: 2017-11-30 18:53:56

Below is generated by plot.py at 2017-11-30 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.03 Mbit/s

95th percentile per-packet one-way delay: 136.840 ms

Loss rate: 0.00%

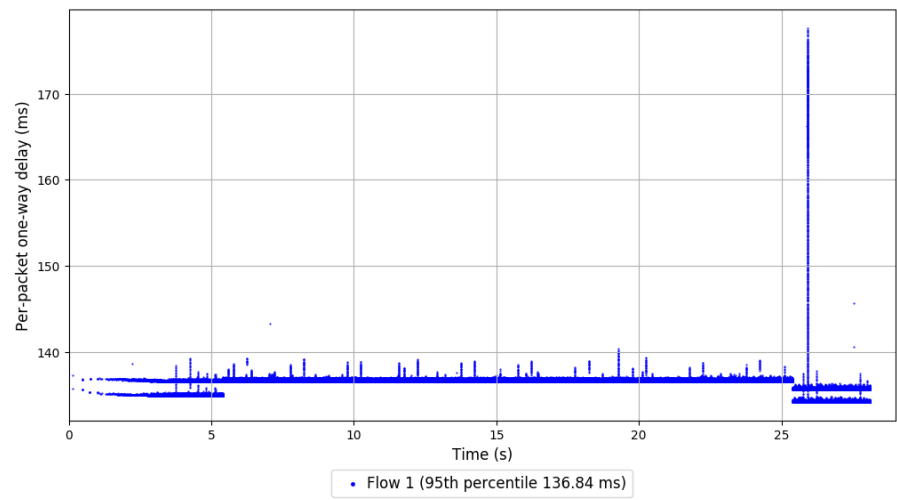
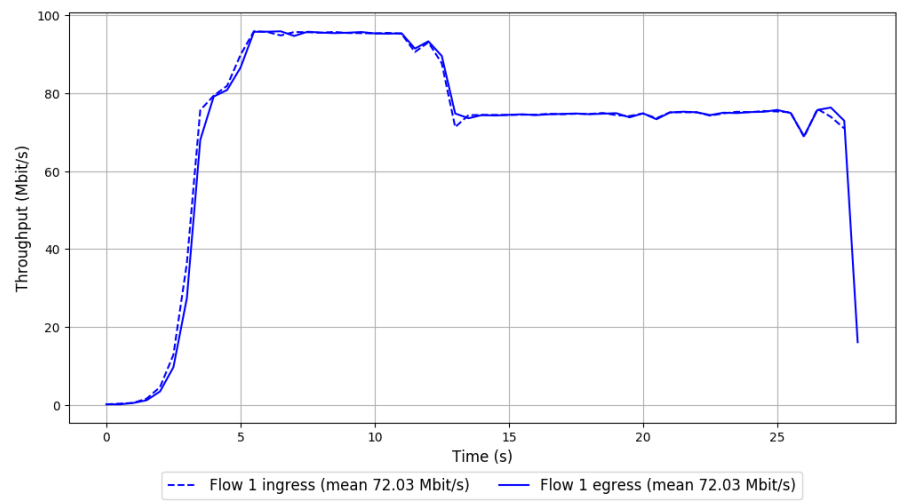
-- Flow 1:

Average throughput: 72.03 Mbit/s

95th percentile per-packet one-way delay: 136.840 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

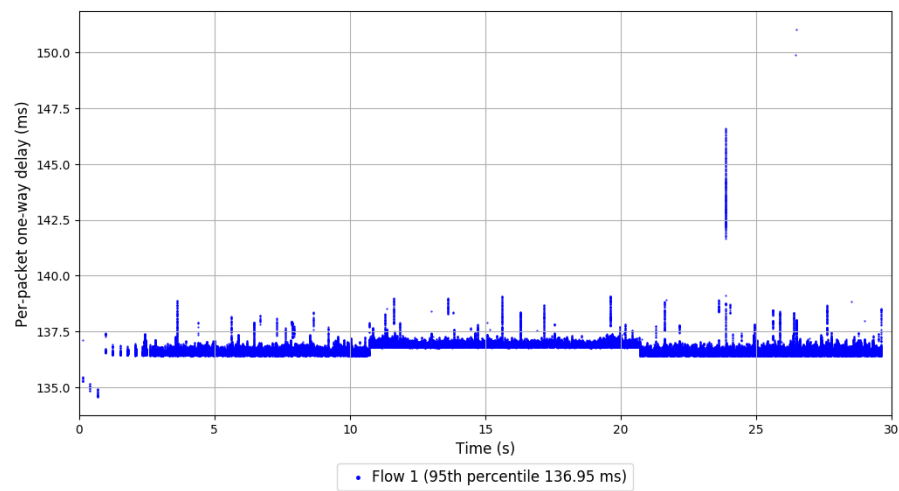
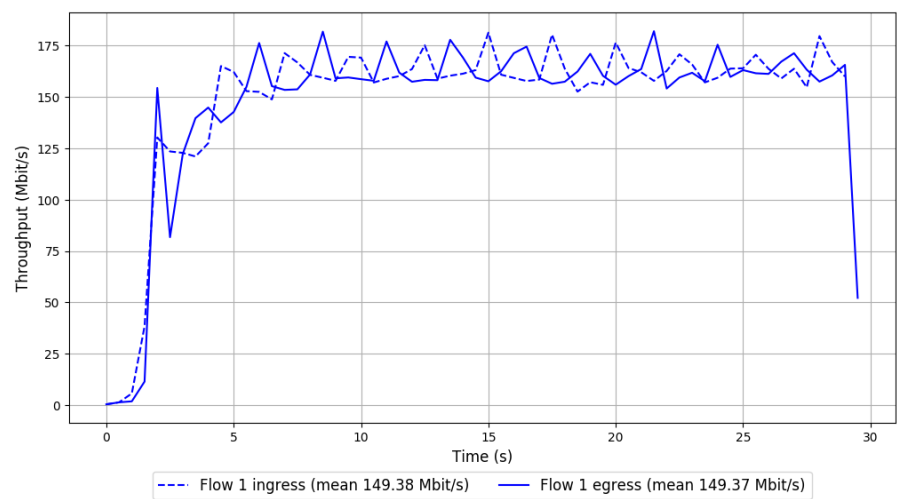


```
Run 1: Statistics of Indigo

Start at: 2017-11-30 17:18:12
End at: 2017-11-30 17:18:42

# Below is generated by plot.py at 2017-11-30 19:57:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 149.37 Mbit/s
95th percentile per-packet one-way delay: 136.950 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 149.37 Mbit/s
95th percentile per-packet one-way delay: 136.950 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-11-30 17:29:28

End at: 2017-11-30 17:29:58

Below is generated by plot.py at 2017-11-30 19:57:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.76 Mbit/s

95th percentile per-packet one-way delay: 135.878 ms

Loss rate: 0.00%

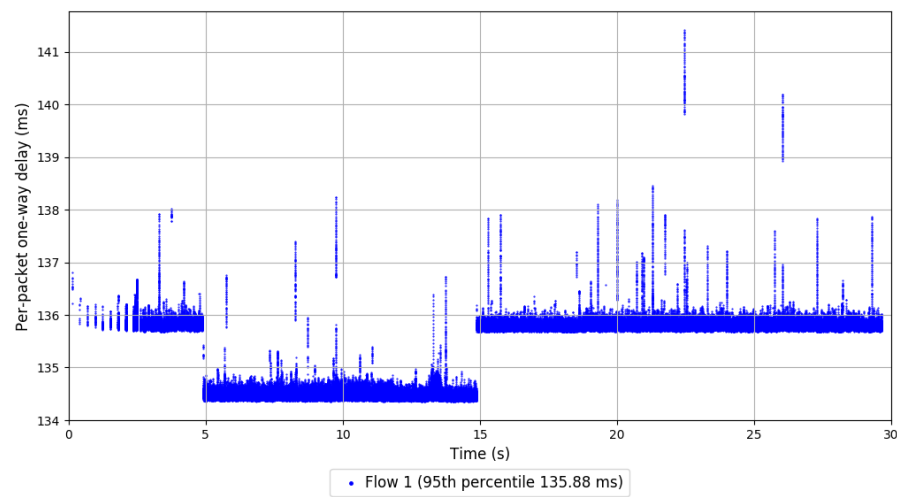
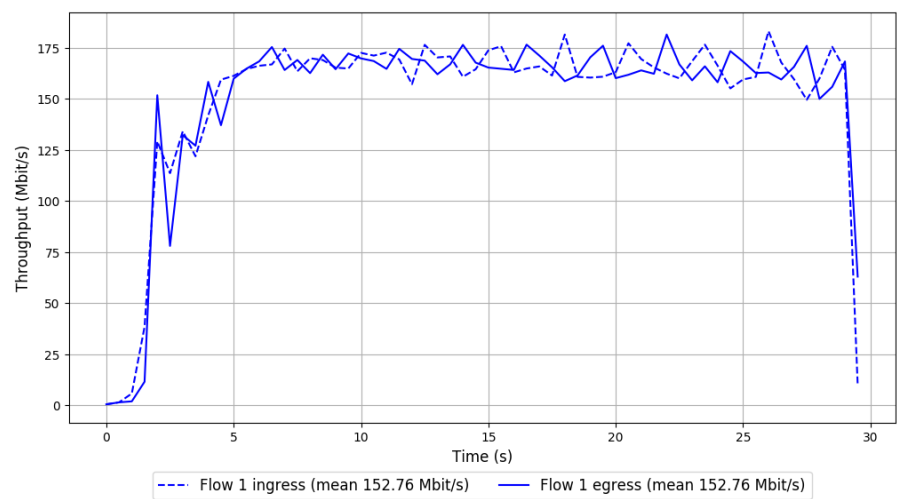
-- Flow 1:

Average throughput: 152.76 Mbit/s

95th percentile per-packet one-way delay: 135.878 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-30 17:40:39

End at: 2017-11-30 17:41:09

Below is generated by plot.py at 2017-11-30 19:57:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.54 Mbit/s

95th percentile per-packet one-way delay: 136.350 ms

Loss rate: 0.00%

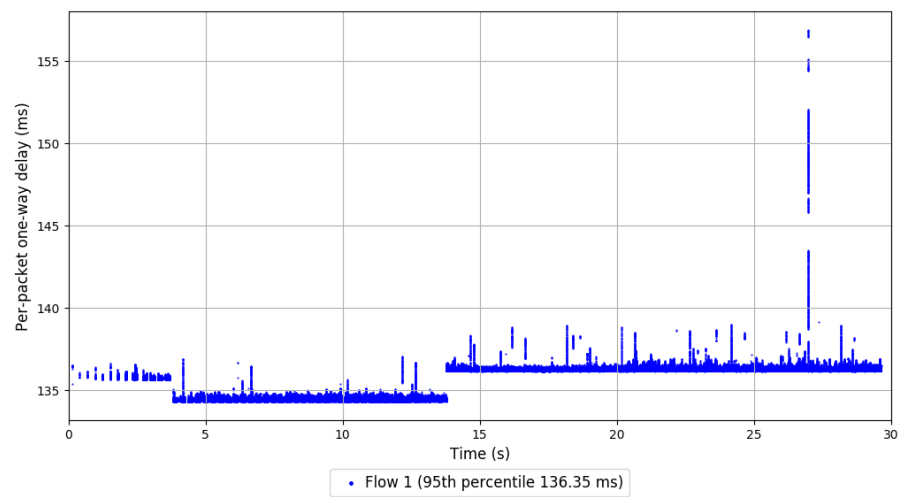
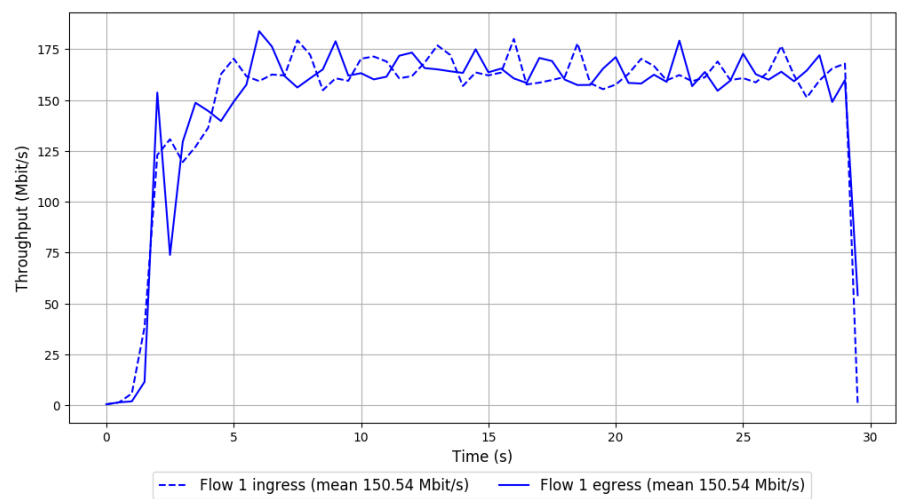
-- Flow 1:

Average throughput: 150.54 Mbit/s

95th percentile per-packet one-way delay: 136.350 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-30 17:51:31

End at: 2017-11-30 17:52:01

Below is generated by plot.py at 2017-11-30 19:57:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.79 Mbit/s

95th percentile per-packet one-way delay: 136.258 ms

Loss rate: 0.00%

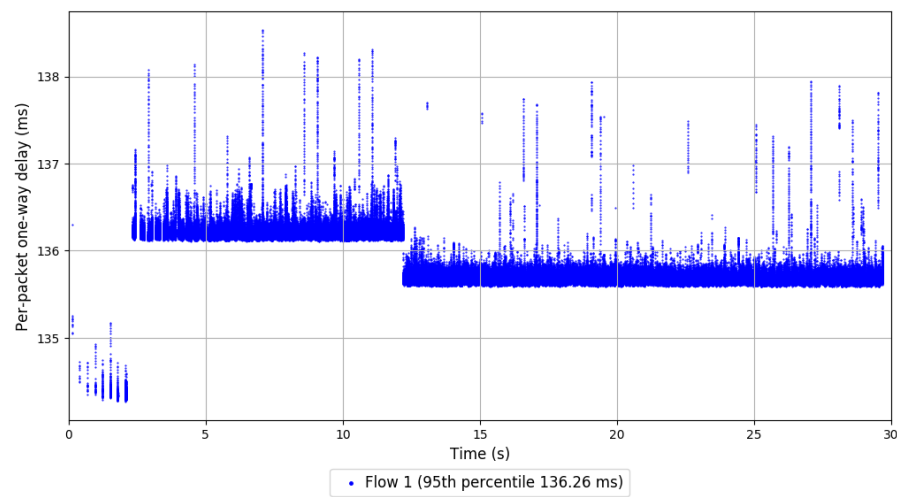
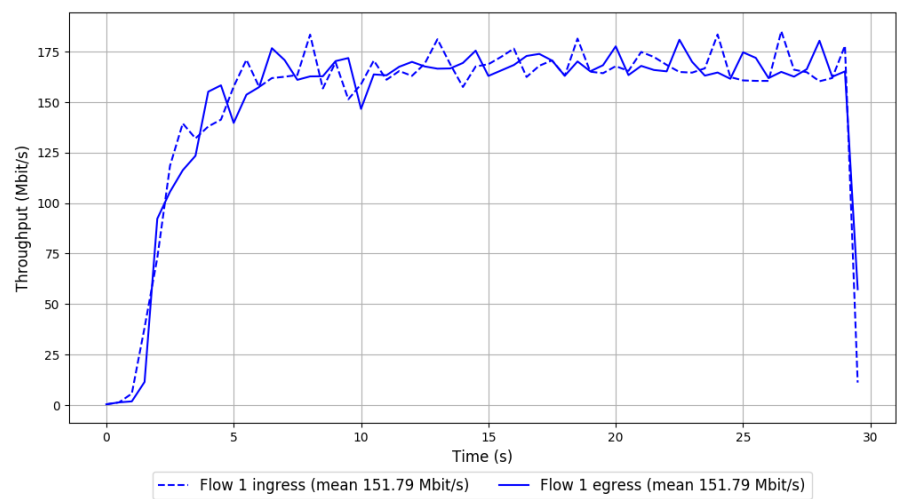
-- Flow 1:

Average throughput: 151.79 Mbit/s

95th percentile per-packet one-way delay: 136.258 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-30 18:02:17

End at: 2017-11-30 18:02:47

Below is generated by plot.py at 2017-11-30 19:57:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.11 Mbit/s

95th percentile per-packet one-way delay: 136.255 ms

Loss rate: 0.00%

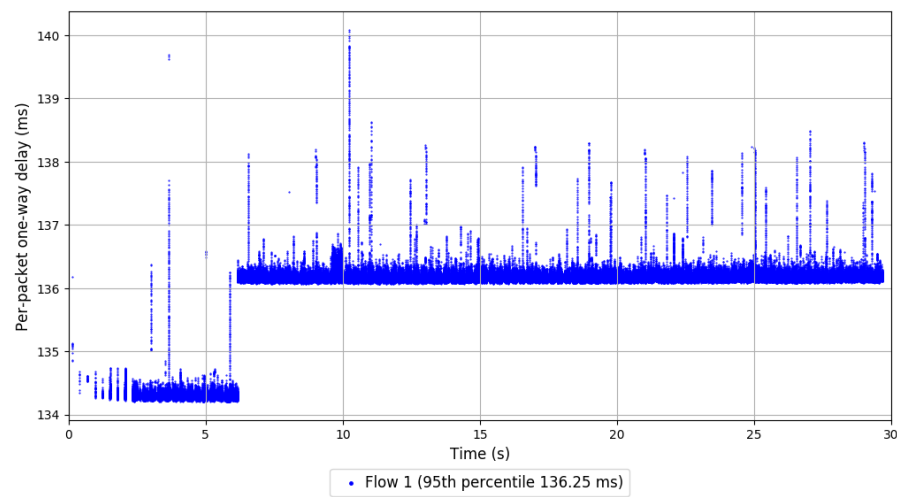
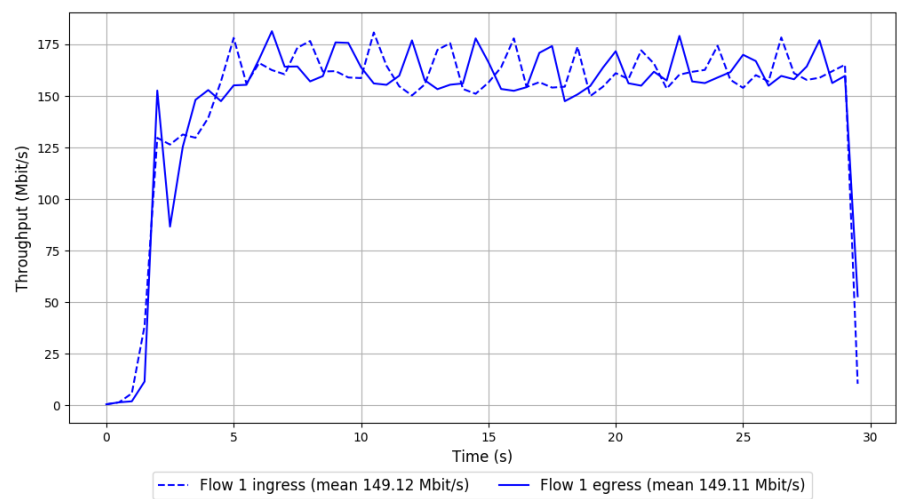
-- Flow 1:

Average throughput: 149.11 Mbit/s

95th percentile per-packet one-way delay: 136.255 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-30 18:13:10

End at: 2017-11-30 18:13:41

Below is generated by plot.py at 2017-11-30 19:59:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.75 Mbit/s

95th percentile per-packet one-way delay: 136.244 ms

Loss rate: 0.00%

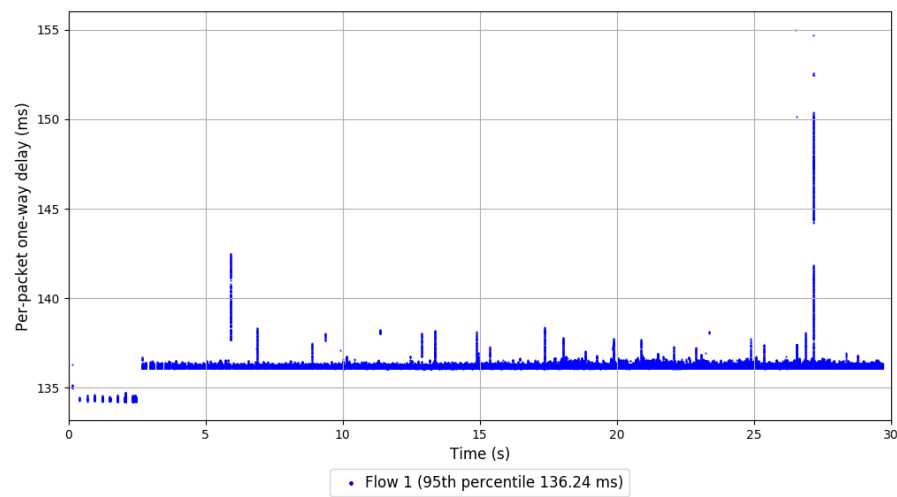
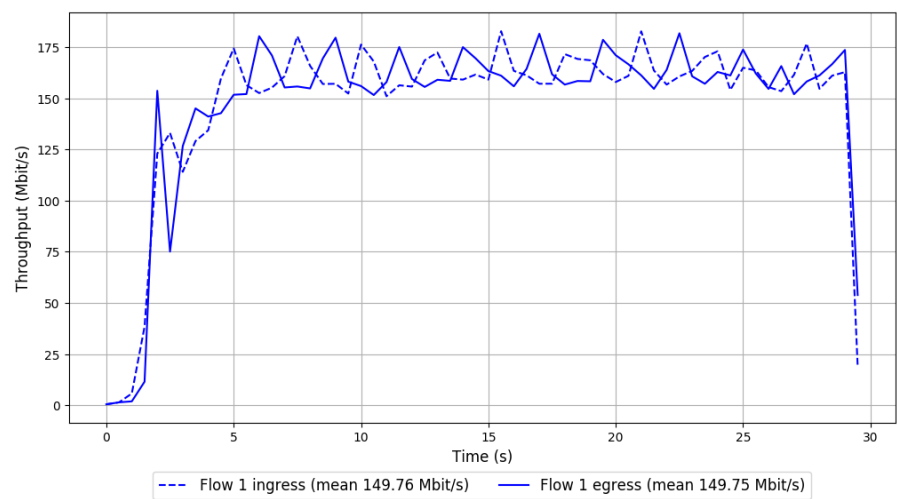
-- Flow 1:

Average throughput: 149.75 Mbit/s

95th percentile per-packet one-way delay: 136.244 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-30 18:24:19

End at: 2017-11-30 18:24:49

Below is generated by plot.py at 2017-11-30 19:59:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.76 Mbit/s

95th percentile per-packet one-way delay: 136.248 ms

Loss rate: 0.00%

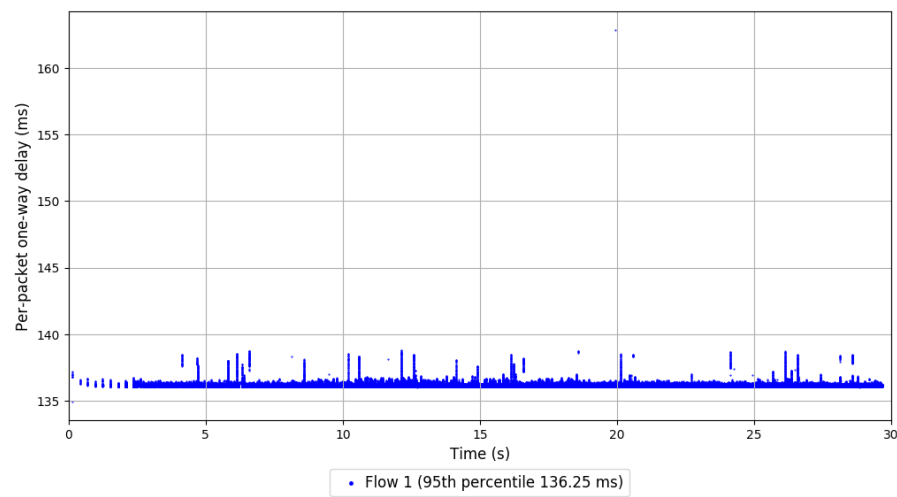
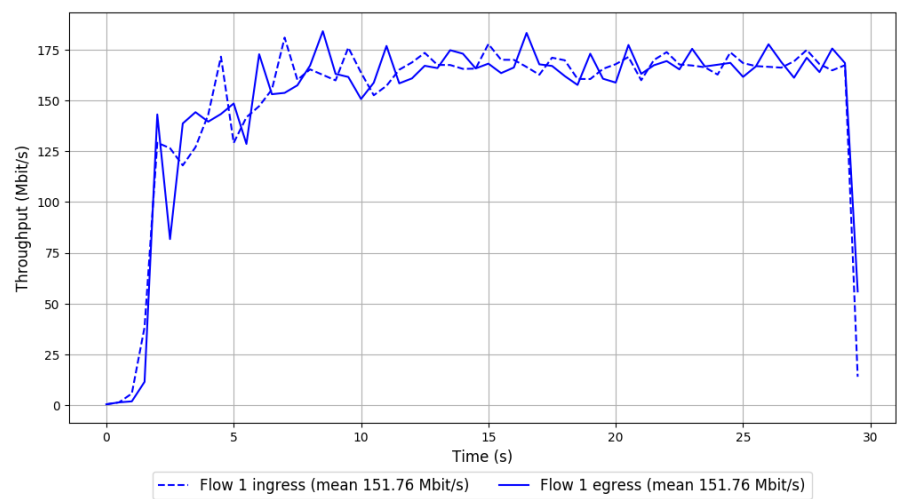
-- Flow 1:

Average throughput: 151.76 Mbit/s

95th percentile per-packet one-way delay: 136.248 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-30 18:35:41

End at: 2017-11-30 18:36:11

Below is generated by plot.py at 2017-11-30 19:59:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.07 Mbit/s

95th percentile per-packet one-way delay: 136.873 ms

Loss rate: 0.00%

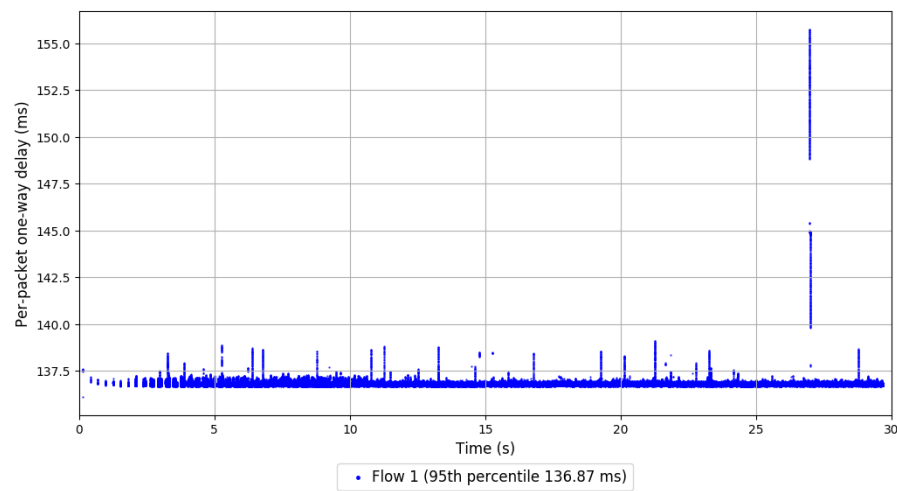
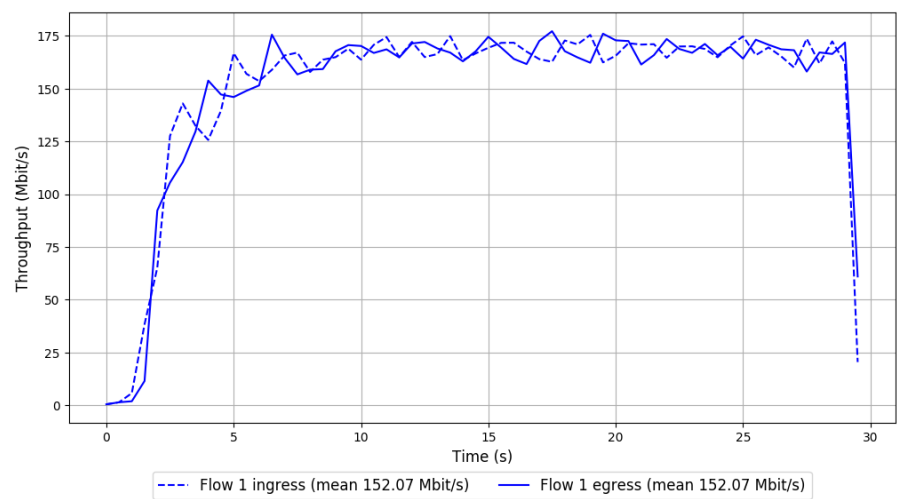
-- Flow 1:

Average throughput: 152.07 Mbit/s

95th percentile per-packet one-way delay: 136.873 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-30 18:47:21

End at: 2017-11-30 18:47:51

Below is generated by plot.py at 2017-11-30 19:59:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.70 Mbit/s

95th percentile per-packet one-way delay: 136.823 ms

Loss rate: 0.04%

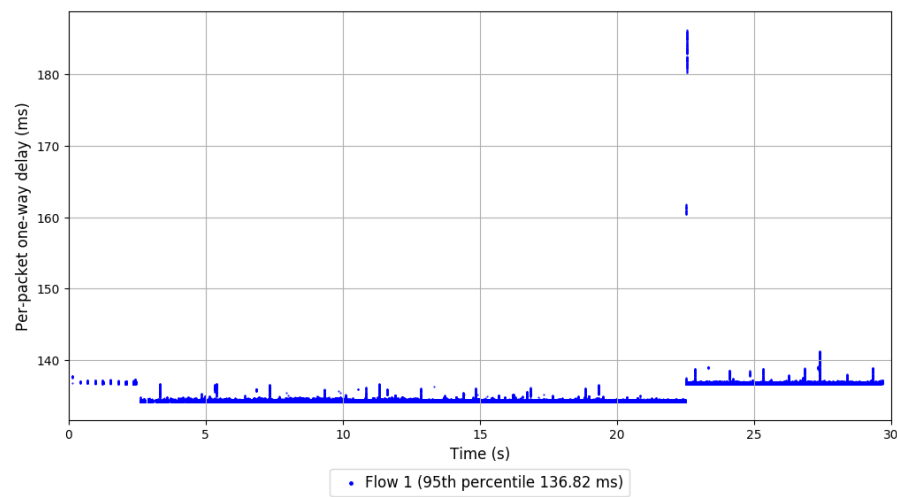
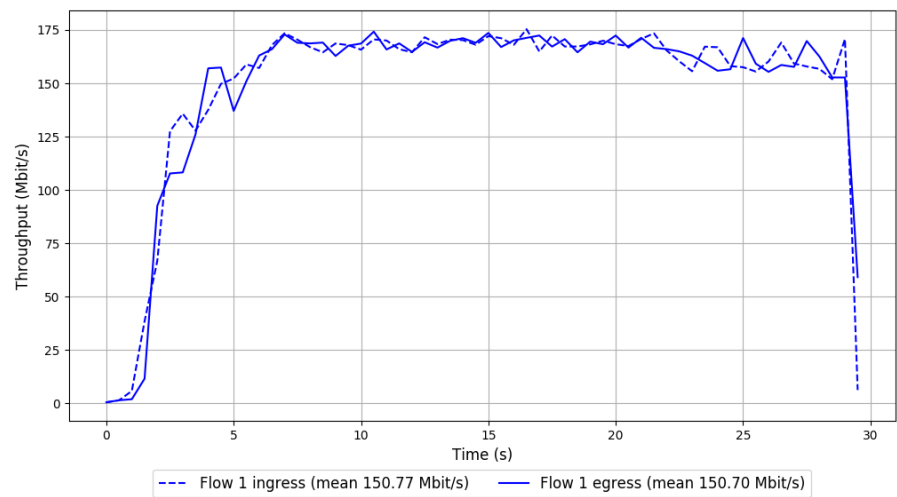
-- Flow 1:

Average throughput: 150.70 Mbit/s

95th percentile per-packet one-way delay: 136.823 ms

Loss rate: 0.04%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-11-30 18:58:14

End at: 2017-11-30 18:58:44

Below is generated by plot.py at 2017-11-30 19:59:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.06 Mbit/s

95th percentile per-packet one-way delay: 136.888 ms

Loss rate: 0.00%

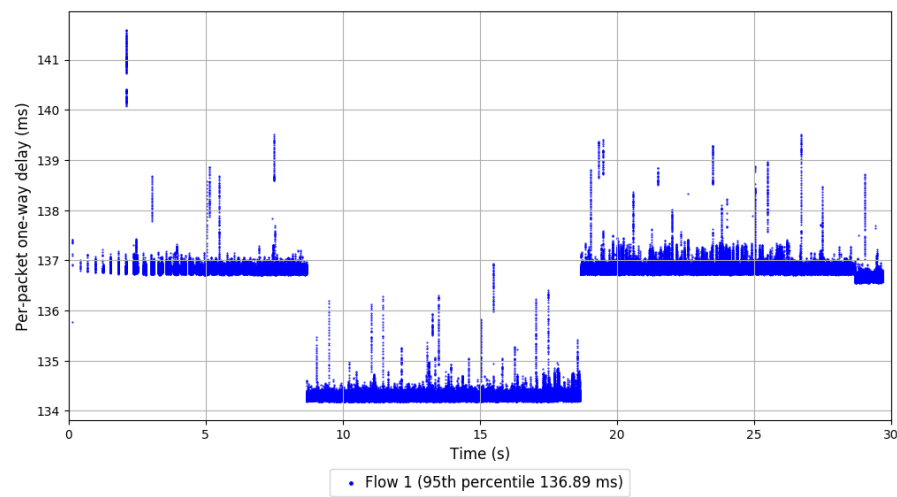
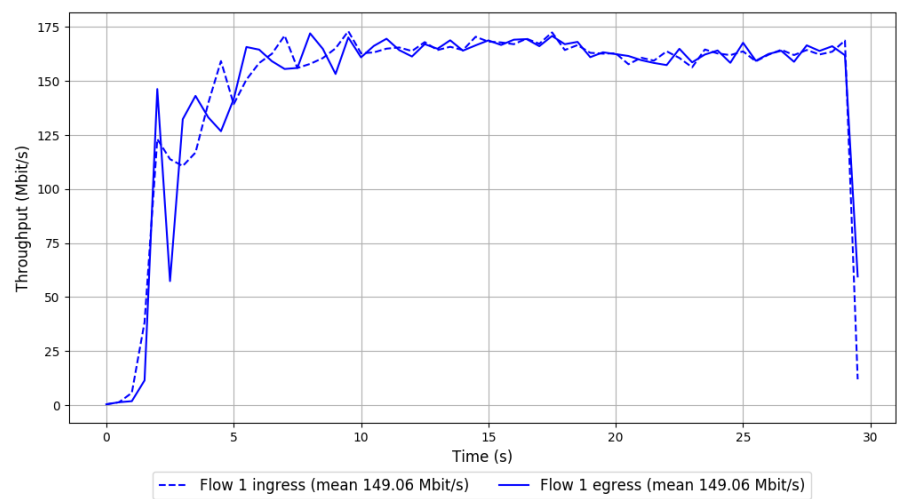
-- Flow 1:

Average throughput: 149.06 Mbit/s

95th percentile per-packet one-way delay: 136.888 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

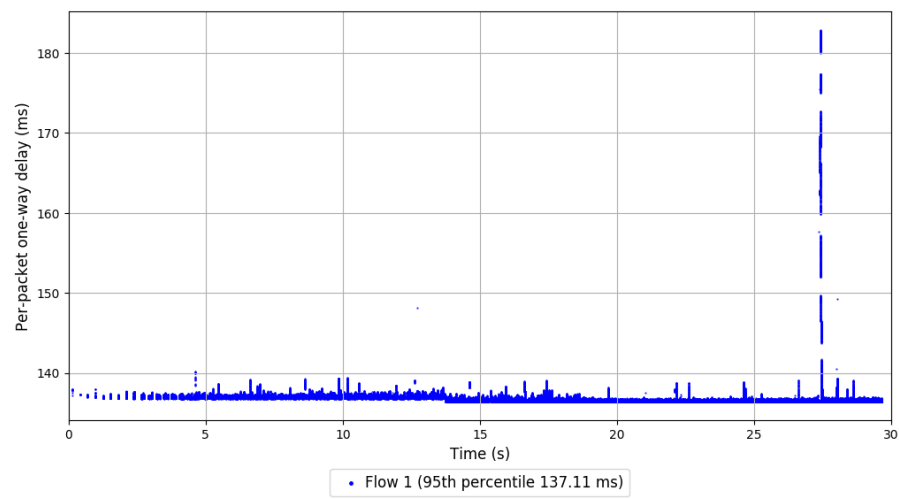
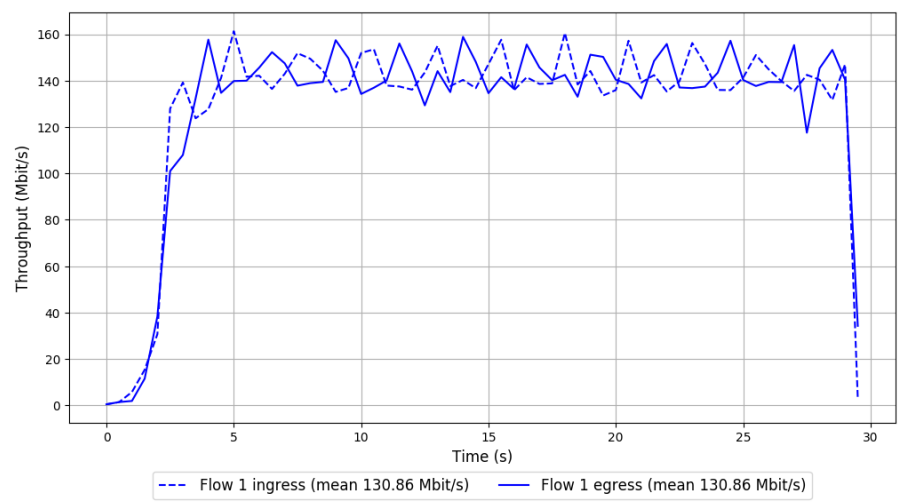


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-30 17:17:19
End at: 2017-11-30 17:17:49

# Below is generated by plot.py at 2017-11-30 19:59:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 130.86 Mbit/s
95th percentile per-packet one-way delay: 137.112 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 130.86 Mbit/s
95th percentile per-packet one-way delay: 137.112 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

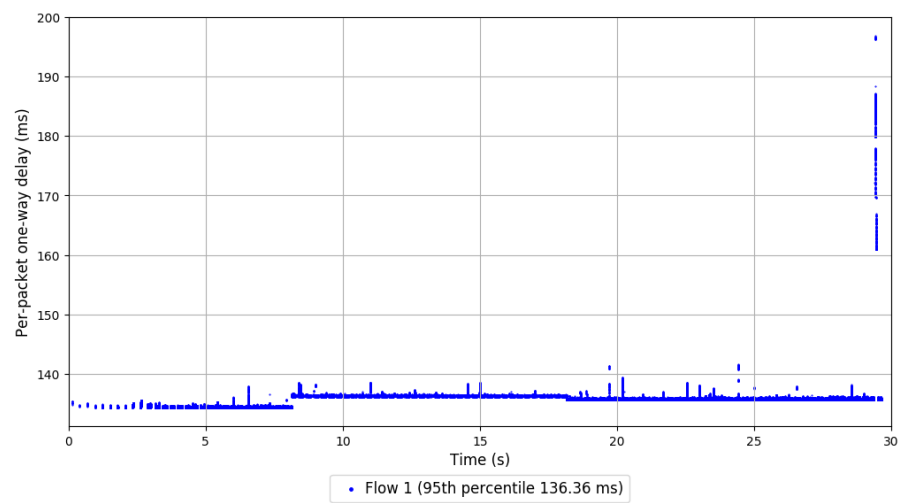
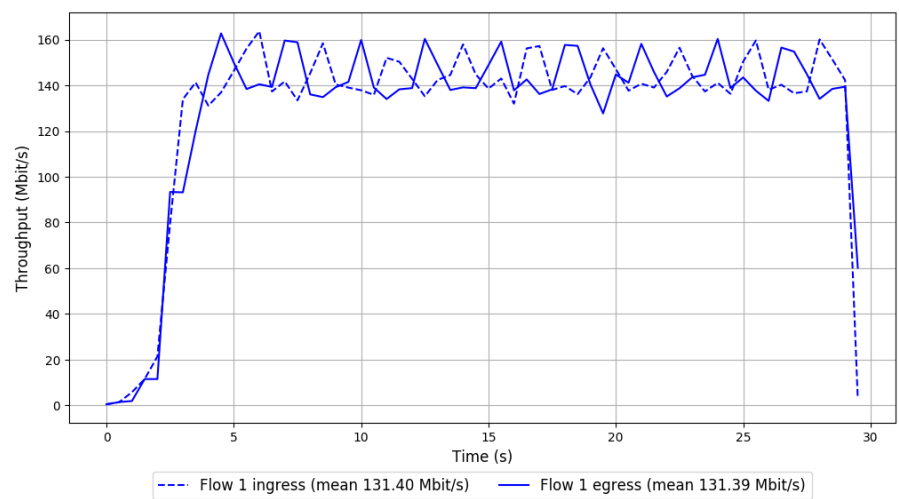


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-30 17:28:35
End at: 2017-11-30 17:29:05

# Below is generated by plot.py at 2017-11-30 19:59:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 131.39 Mbit/s
95th percentile per-packet one-way delay: 136.356 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 131.39 Mbit/s
95th percentile per-packet one-way delay: 136.356 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-11-30 17:39:46

End at: 2017-11-30 17:40:16

Below is generated by plot.py at 2017-11-30 19:59:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 133.41 Mbit/s

95th percentile per-packet one-way delay: 135.784 ms

Loss rate: 0.00%

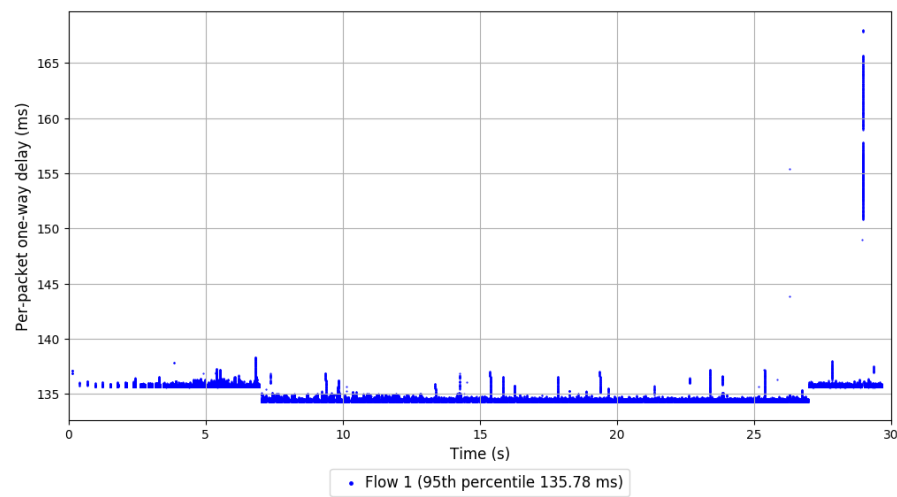
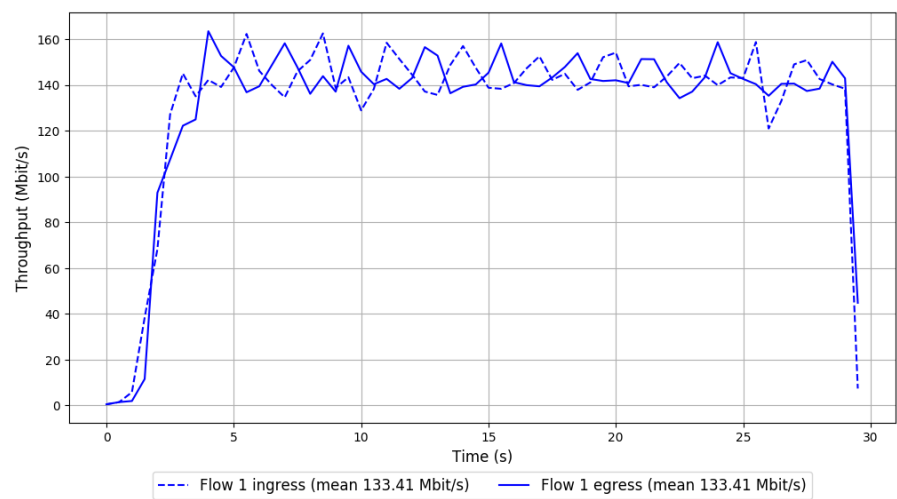
-- Flow 1:

Average throughput: 133.41 Mbit/s

95th percentile per-packet one-way delay: 135.784 ms

Loss rate: 0.00%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-11-30 17:50:38

End at: 2017-11-30 17:51:08

Below is generated by plot.py at 2017-11-30 20:01:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.55 Mbit/s

95th percentile per-packet one-way delay: 136.296 ms

Loss rate: 0.00%

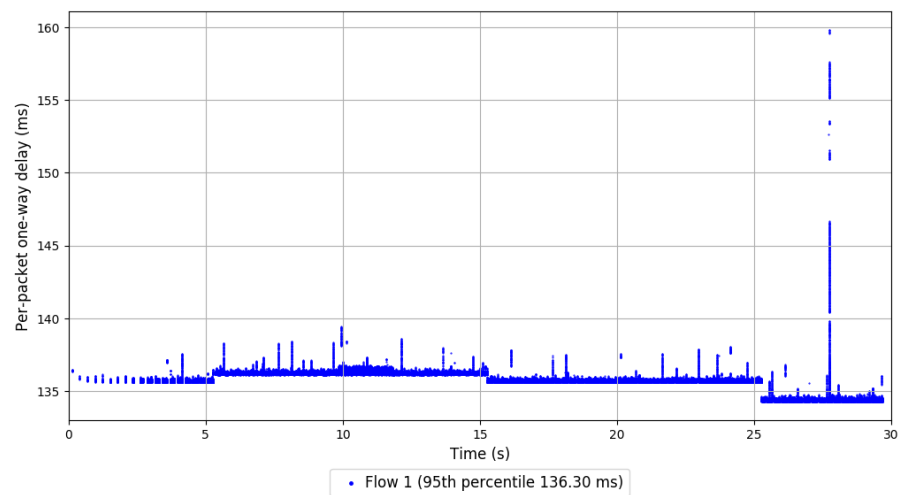
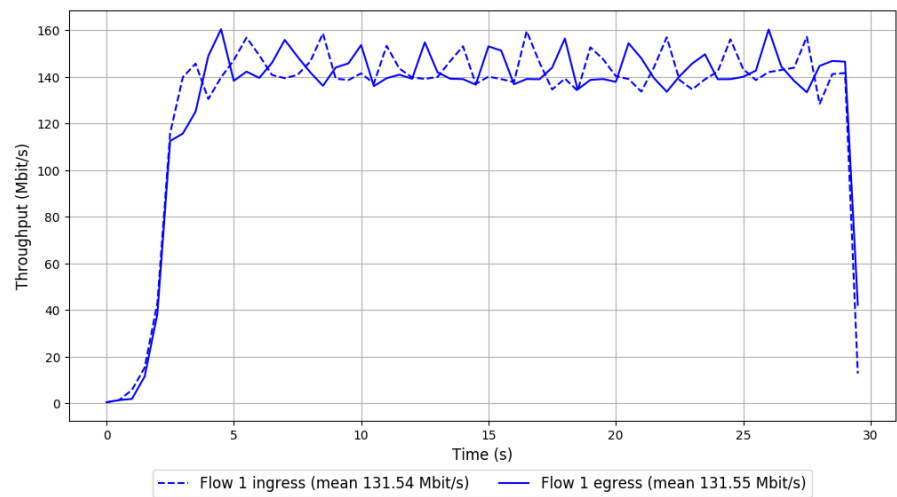
-- Flow 1:

Average throughput: 131.55 Mbit/s

95th percentile per-packet one-way delay: 136.296 ms

Loss rate: 0.00%

Run 4: Report of Indigo-calib — Data Link

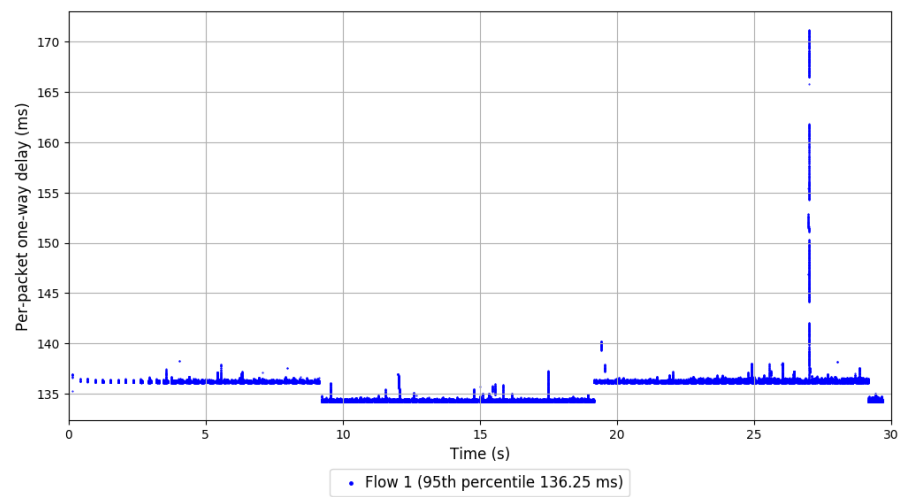
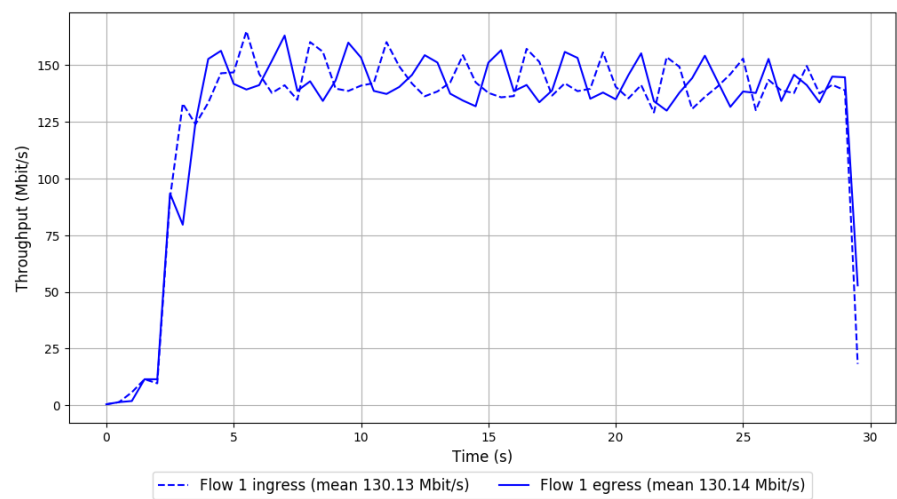


```
Run 5: Statistics of Indigo-calib

Start at: 2017-11-30 18:01:24
End at: 2017-11-30 18:01:54

# Below is generated by plot.py at 2017-11-30 20:01:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 130.14 Mbit/s
95th percentile per-packet one-way delay: 136.250 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 130.14 Mbit/s
95th percentile per-packet one-way delay: 136.250 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-calib — Data Link

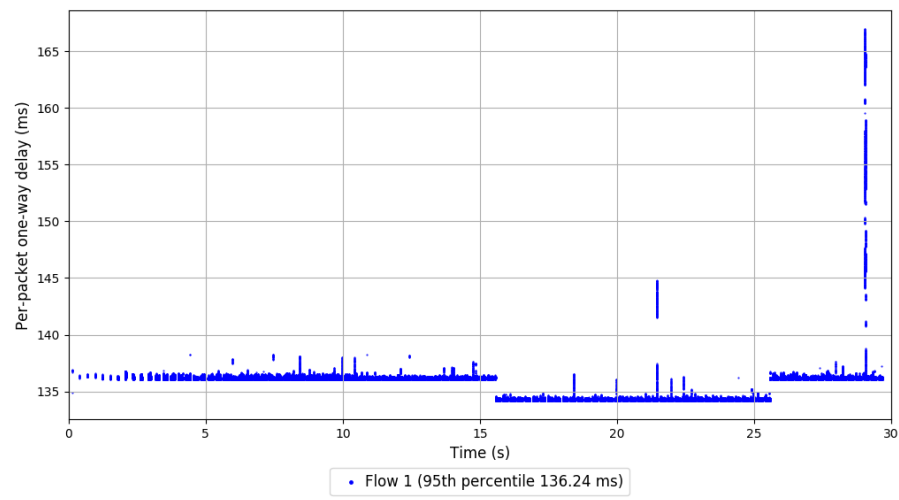
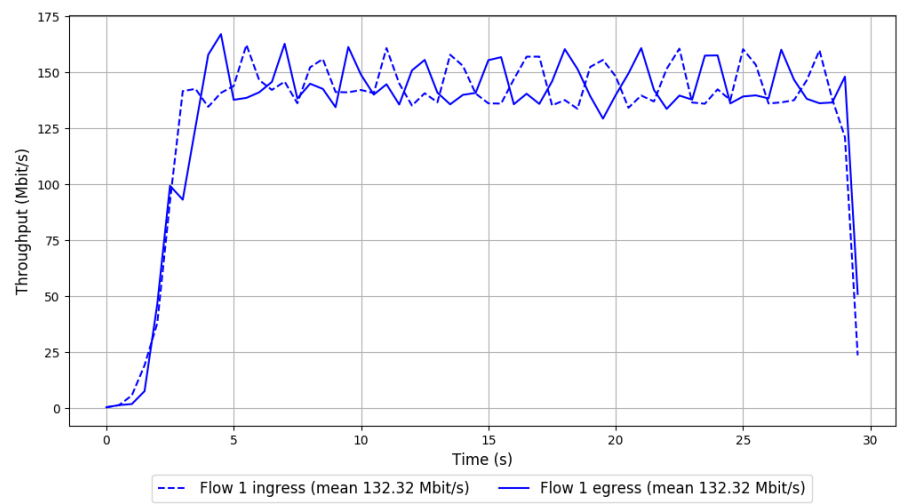


```
Run 6: Statistics of Indigo-calib

Start at: 2017-11-30 18:12:17
End at: 2017-11-30 18:12:47

# Below is generated by plot.py at 2017-11-30 20:01:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 132.32 Mbit/s
95th percentile per-packet one-way delay: 136.239 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 132.32 Mbit/s
95th percentile per-packet one-way delay: 136.239 ms
Loss rate: 0.00%
```

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-11-30 18:23:26

End at: 2017-11-30 18:23:56

Below is generated by plot.py at 2017-11-30 20:01:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.08 Mbit/s

95th percentile per-packet one-way delay: 136.249 ms

Loss rate: 0.00%

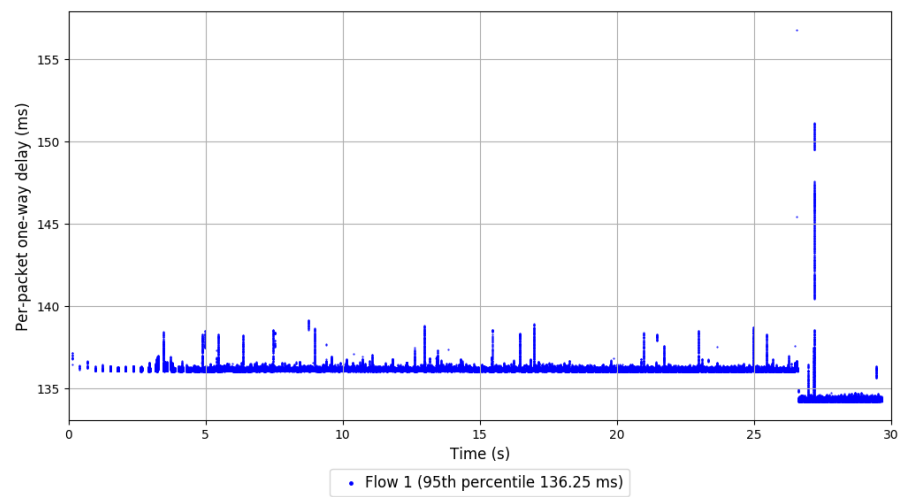
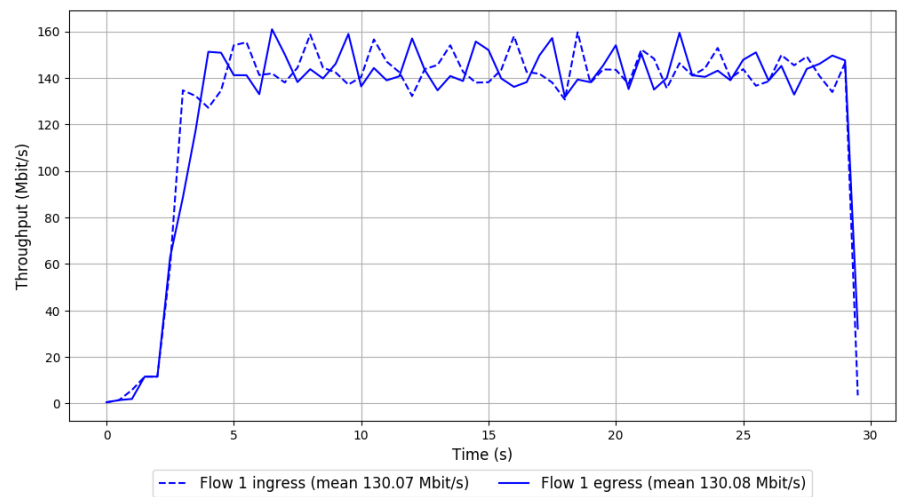
-- Flow 1:

Average throughput: 130.08 Mbit/s

95th percentile per-packet one-way delay: 136.249 ms

Loss rate: 0.00%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-30 18:34:48

End at: 2017-11-30 18:35:18

Below is generated by plot.py at 2017-11-30 20:01:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.65 Mbit/s

95th percentile per-packet one-way delay: 136.789 ms

Loss rate: 0.00%

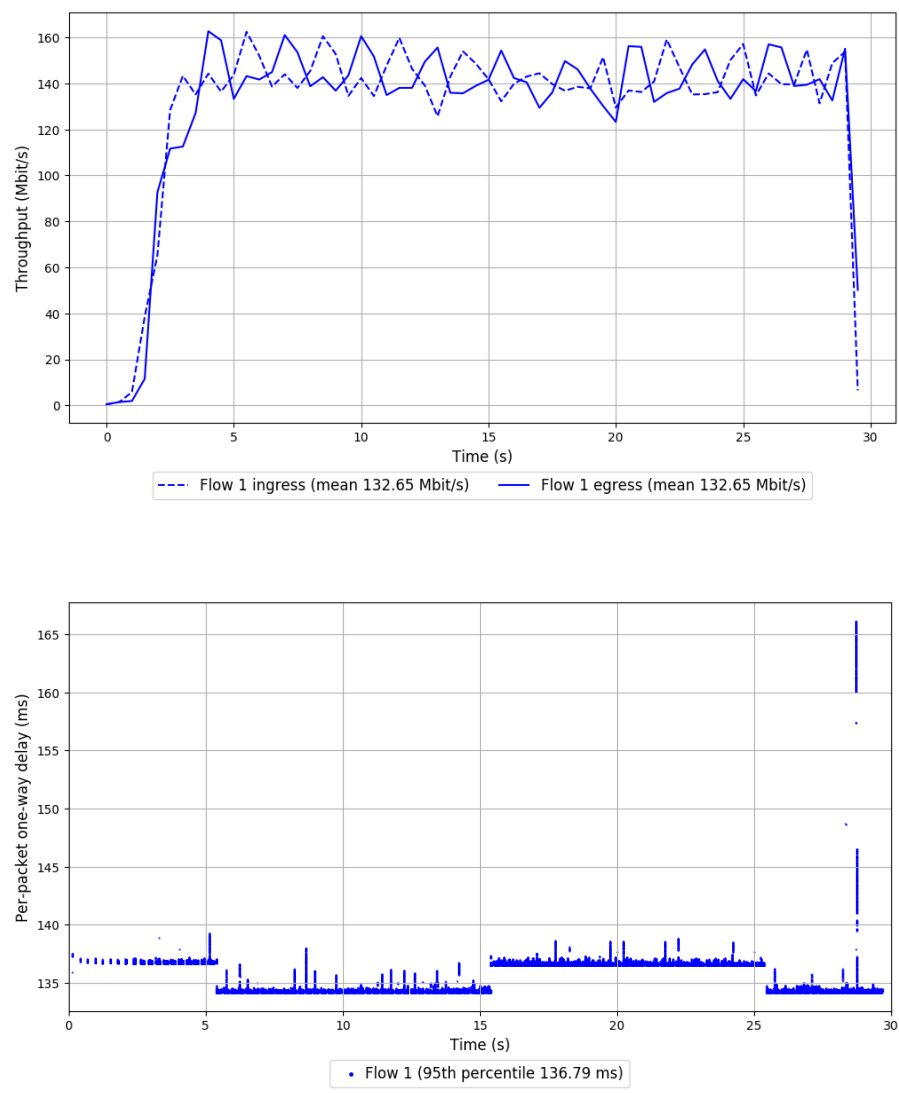
-- Flow 1:

Average throughput: 132.65 Mbit/s

95th percentile per-packet one-way delay: 136.789 ms

Loss rate: 0.00%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-11-30 18:46:27

End at: 2017-11-30 18:46:57

Below is generated by plot.py at 2017-11-30 20:01:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.17 Mbit/s

95th percentile per-packet one-way delay: 136.875 ms

Loss rate: 0.01%

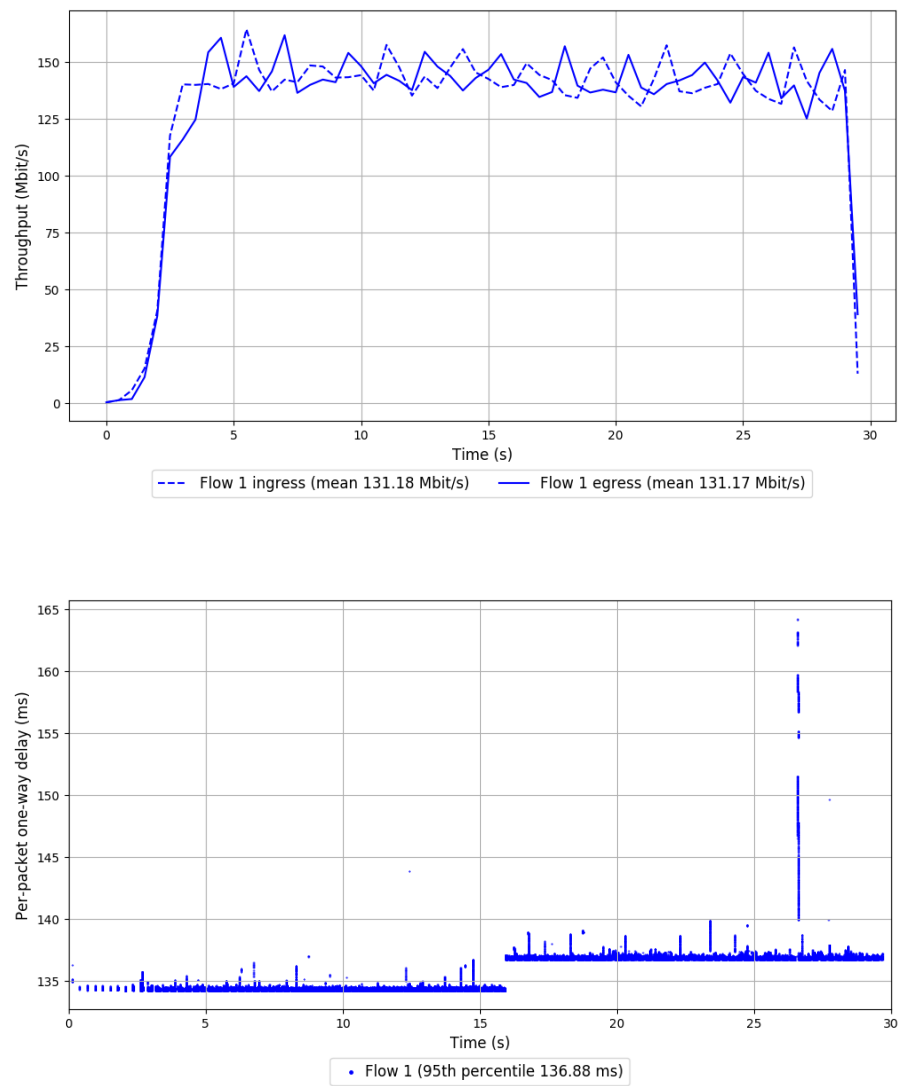
-- Flow 1:

Average throughput: 131.17 Mbit/s

95th percentile per-packet one-way delay: 136.875 ms

Loss rate: 0.01%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-30 18:57:21

End at: 2017-11-30 18:57:51

Below is generated by plot.py at 2017-11-30 20:01:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.62 Mbit/s

95th percentile per-packet one-way delay: 136.850 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 128.62 Mbit/s

95th percentile per-packet one-way delay: 136.850 ms

Loss rate: 0.01%

Run 10: Report of Indigo-calib — Data Link

