

Pantheon Report

Generated at 2017-10-11 09:25:40 (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.

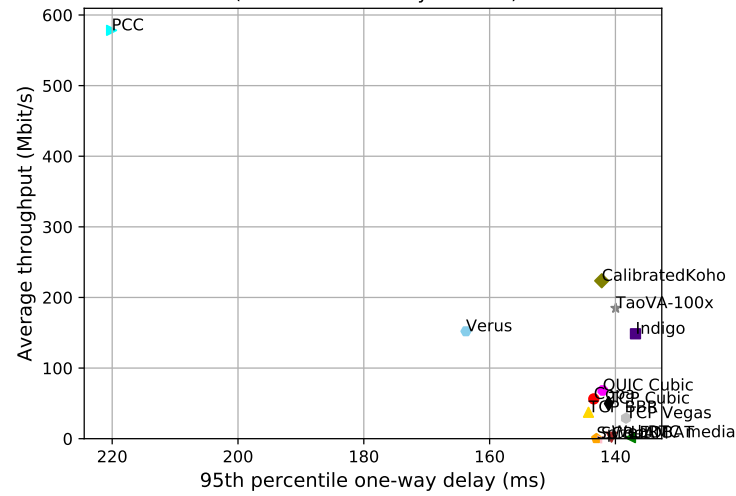
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

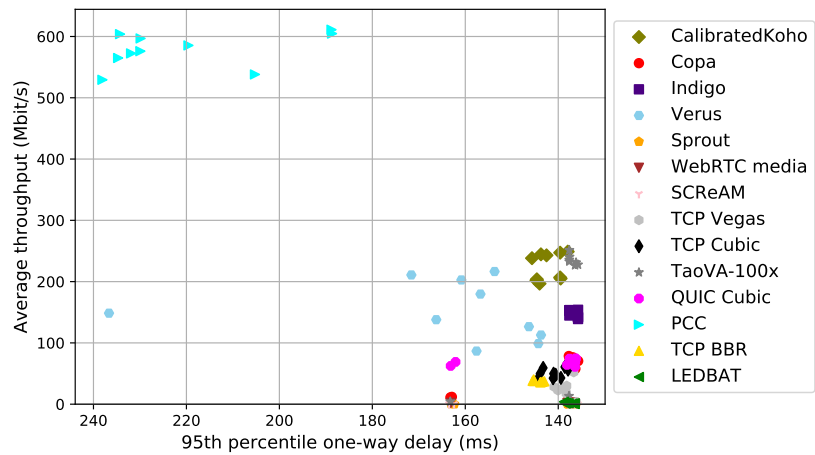
Git summary:

```
branch: indigos @ 45998d6404be7c5106956530acb9cfc43bd06e7d
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
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 @ 03455460fd1a8ffbdad86fab936fdca204b80db
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	7	37.41	144.28	0.00
TCP Cubic	10	49.77	141.08	0.00
LEDBAT	10	1.49	137.61	0.06
PCC	10	578.27	220.09	2.12
QUIC Cubic	10	68.28	142.02	0.00
SCReAM	10	0.20	142.28	0.00
WebRTC media	8	2.10	140.62	0.00
Sprout	9	0.37	143.01	0.00
TaoVA-100x	9	184.86	139.96	0.00
TCP Vegas	10	29.05	138.32	0.00
Verus	10	152.10	163.76	0.21
Copa	8	56.36	143.44	0.00
CalibratedKoho	10	223.62	142.18	0.01
Indigo	10	148.56	136.81	0.00

Run 1: Statistics of TCP BBR

Start at: 2017-10-11 06:26:55

End at: 2017-10-11 06:27:25

Below is generated by plot.py at 2017-10-11 08:50:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.93 Mbit/s

95th percentile per-packet one-way delay: 143.729 ms

Loss rate: 0.00%

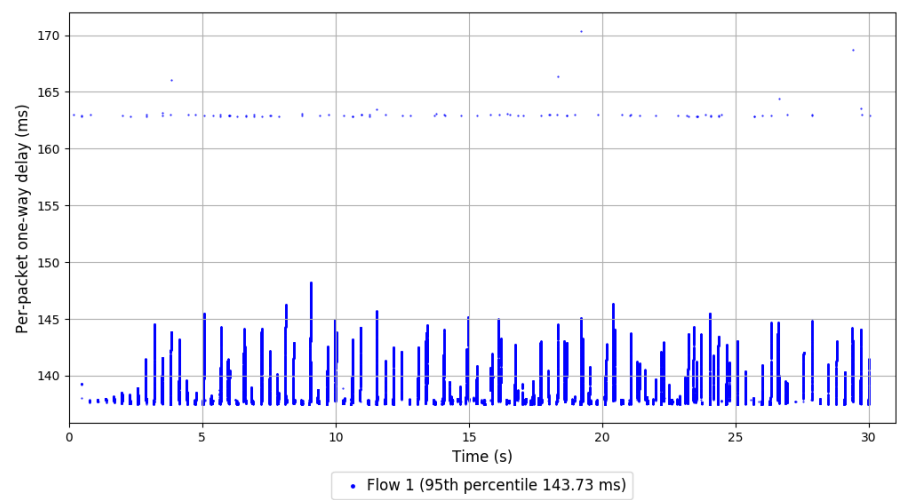
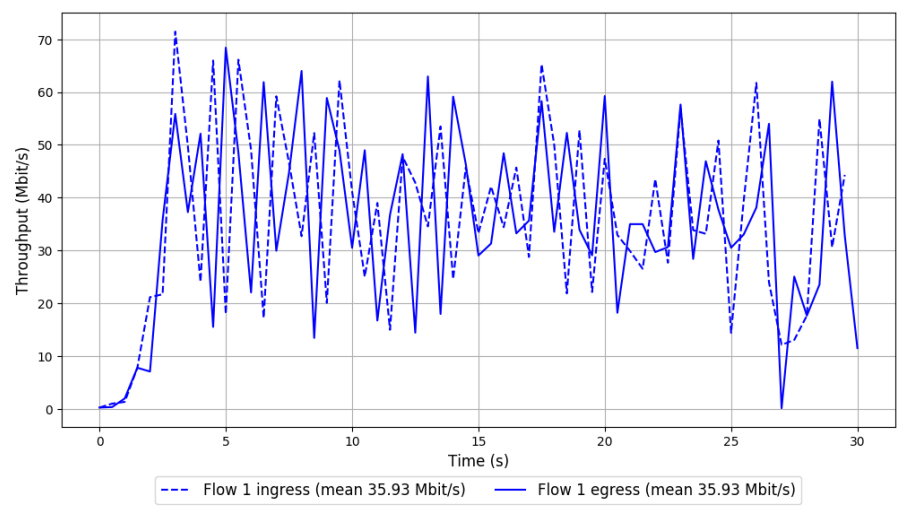
-- Flow 1:

Average throughput: 35.93 Mbit/s

95th percentile per-packet one-way delay: 143.729 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-10-11 06:38:52

End at: 2017-10-11 06:39:22

Below is generated by plot.py at 2017-10-11 08:50:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.78 Mbit/s

95th percentile per-packet one-way delay: 143.867 ms

Loss rate: 0.00%

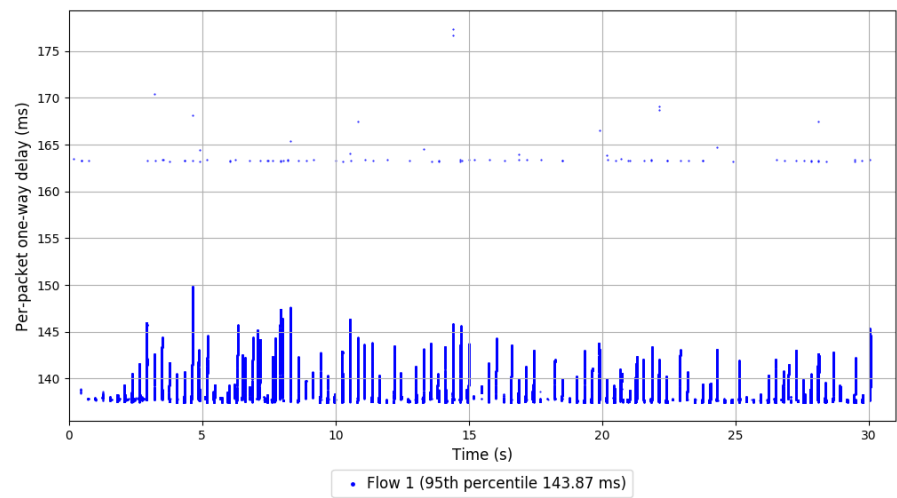
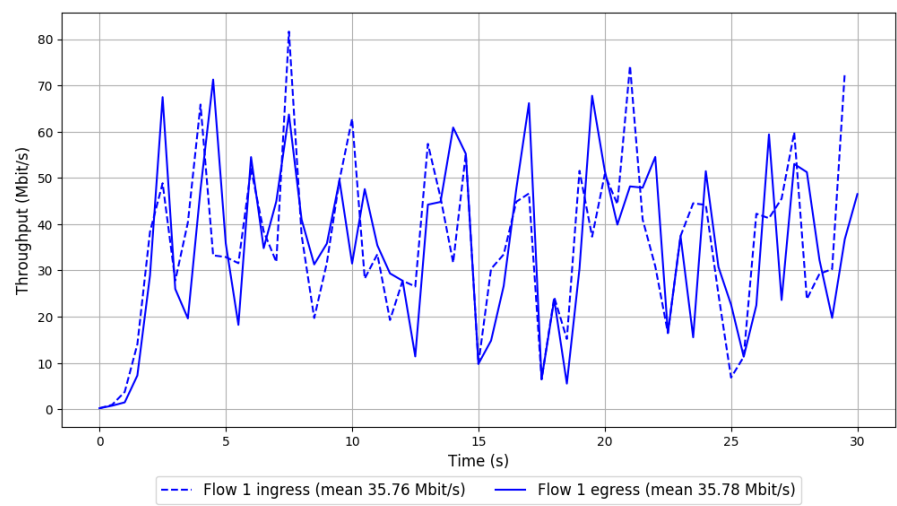
-- Flow 1:

Average throughput: 35.78 Mbit/s

95th percentile per-packet one-way delay: 143.867 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-10-11 06:50:53

End at: 2017-10-11 06:51:23

Below is generated by plot.py at 2017-10-11 08:50:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.37 Mbit/s

95th percentile per-packet one-way delay: 145.286 ms

Loss rate: 0.00%

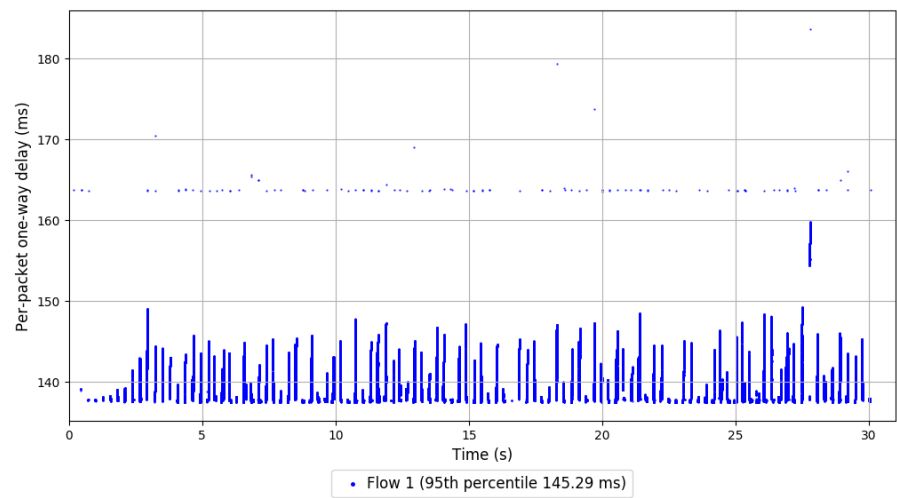
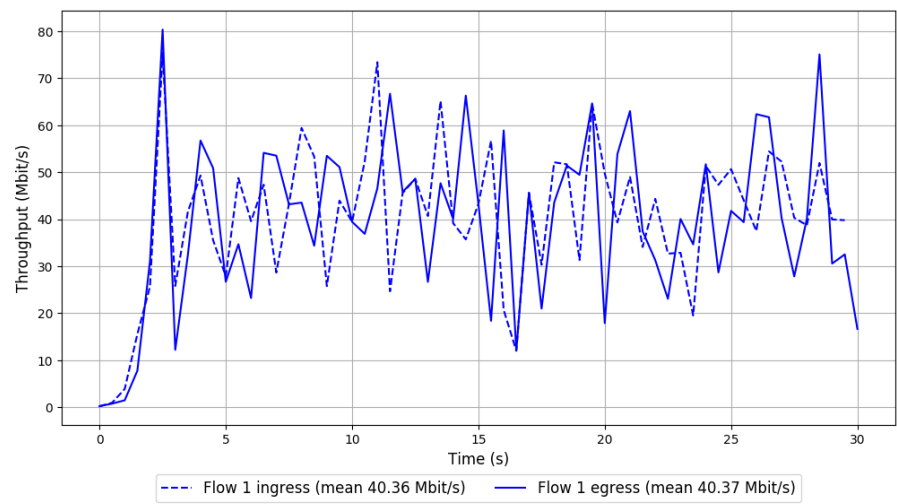
-- Flow 1:

Average throughput: 40.37 Mbit/s

95th percentile per-packet one-way delay: 145.286 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link

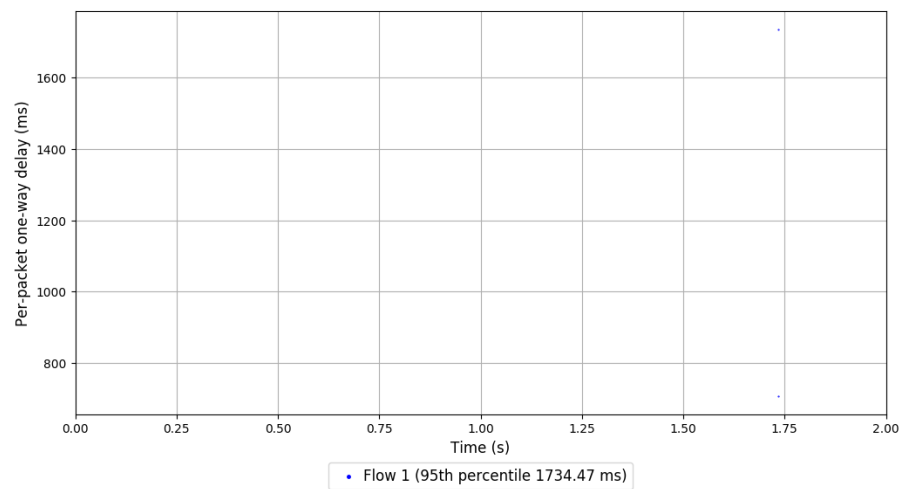
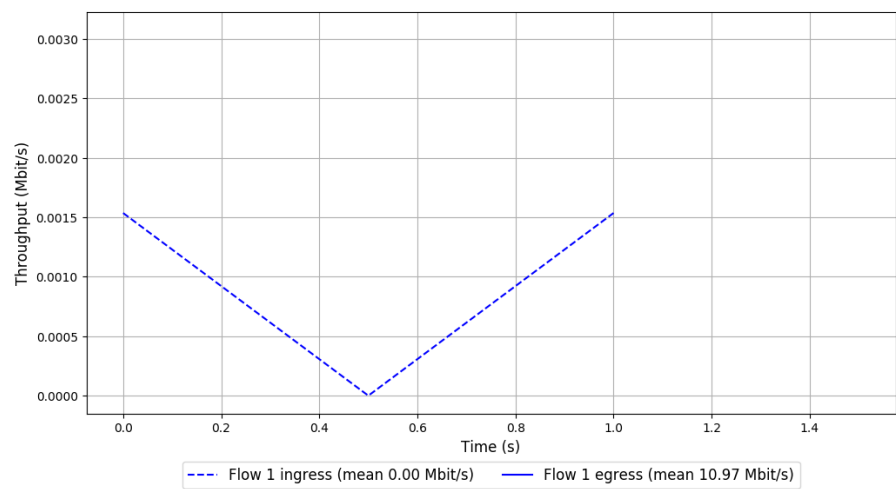


Run 4: Statistics of TCP BBR

Start at: 2017-10-11 07:02:52

End at: 2017-10-11 07:03:22

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-10-11 07:14:43

End at: 2017-10-11 07:15:13

Below is generated by plot.py at 2017-10-11 08:50:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.01 Mbit/s

95th percentile per-packet one-way delay: 145.505 ms

Loss rate: 0.00%

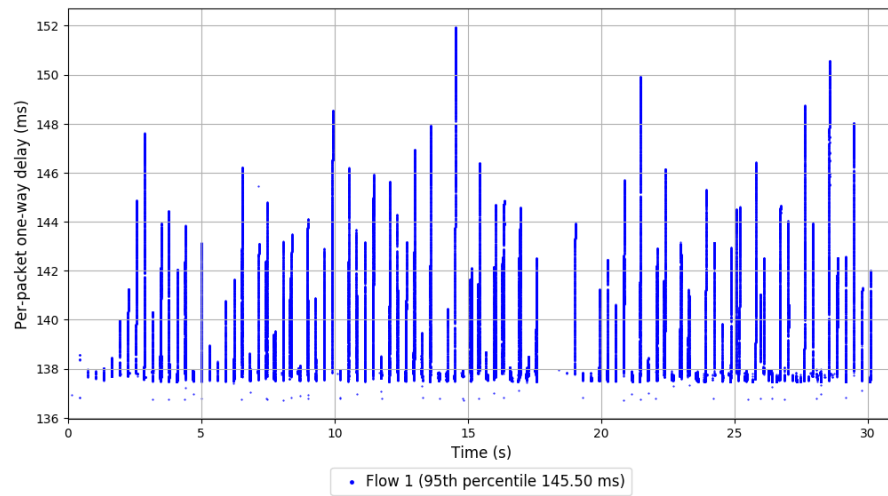
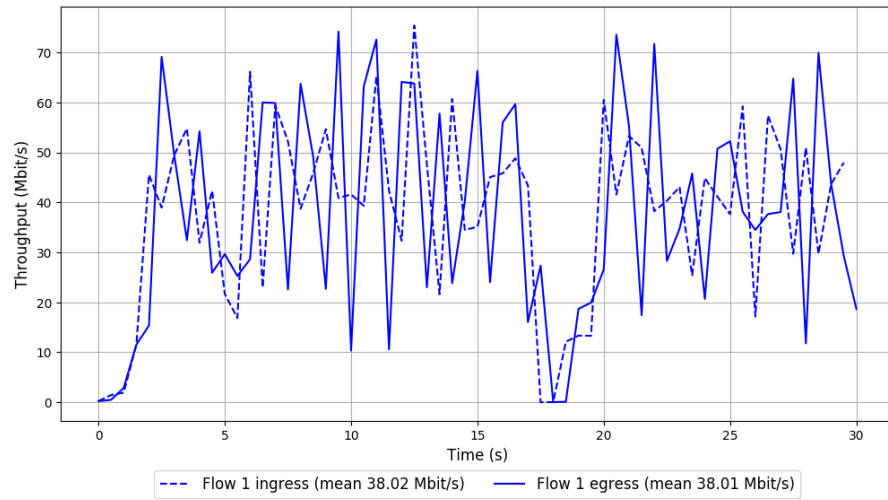
-- Flow 1:

Average throughput: 38.01 Mbit/s

95th percentile per-packet one-way delay: 145.505 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-10-11 07:26:26

End at: 2017-10-11 07:26:56

Below is generated by plot.py at 2017-10-11 08:50:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.75 Mbit/s

95th percentile per-packet one-way delay: 145.210 ms

Loss rate: 0.00%

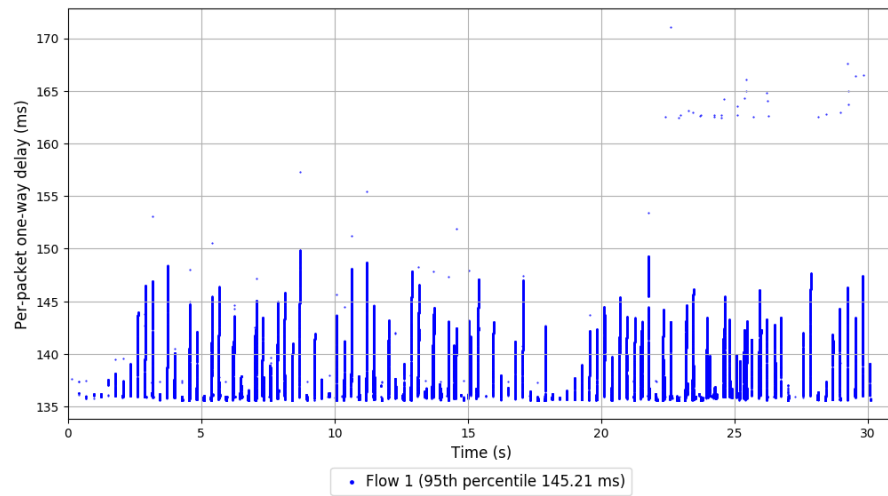
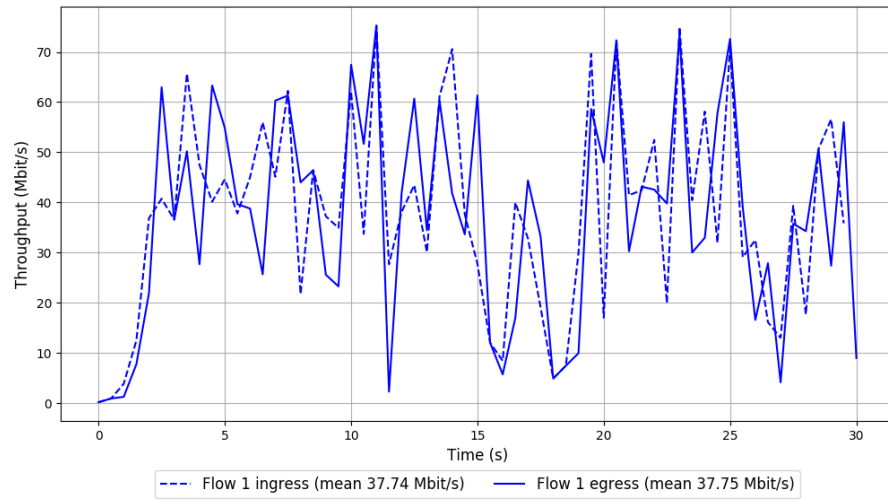
-- Flow 1:

Average throughput: 37.75 Mbit/s

95th percentile per-packet one-way delay: 145.210 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link

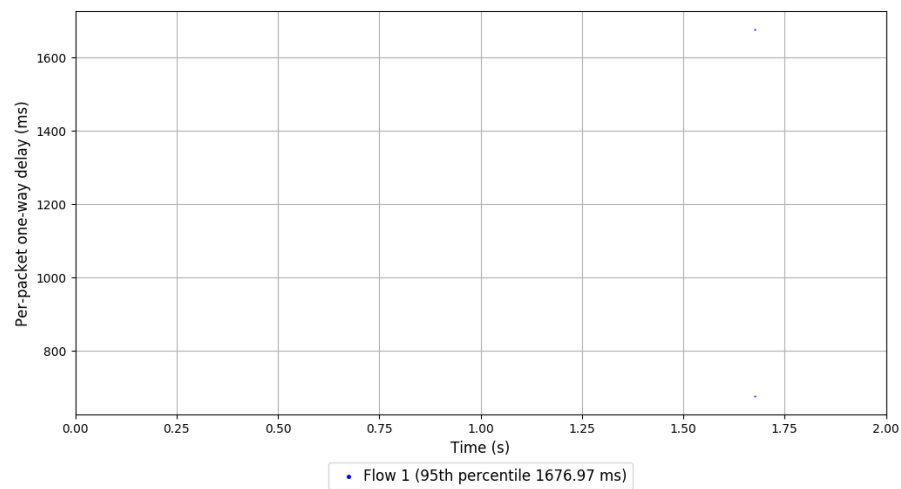
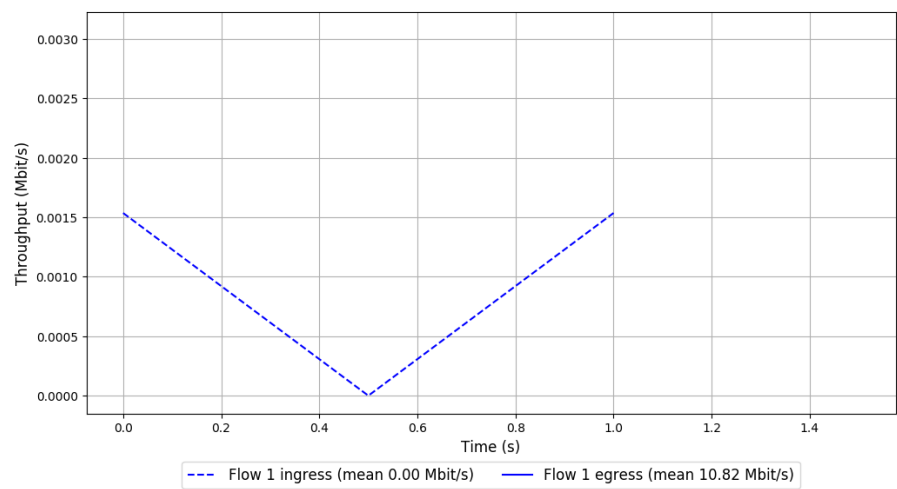


Run 7: Statistics of TCP BBR

Start at: 2017-10-11 07:38:26

End at: 2017-10-11 07:38:56

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-10-11 07:50:19

End at: 2017-10-11 07:50:49

Below is generated by plot.py at 2017-10-11 08:50:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.71 Mbit/s

95th percentile per-packet one-way delay: 143.379 ms

Loss rate: 0.00%

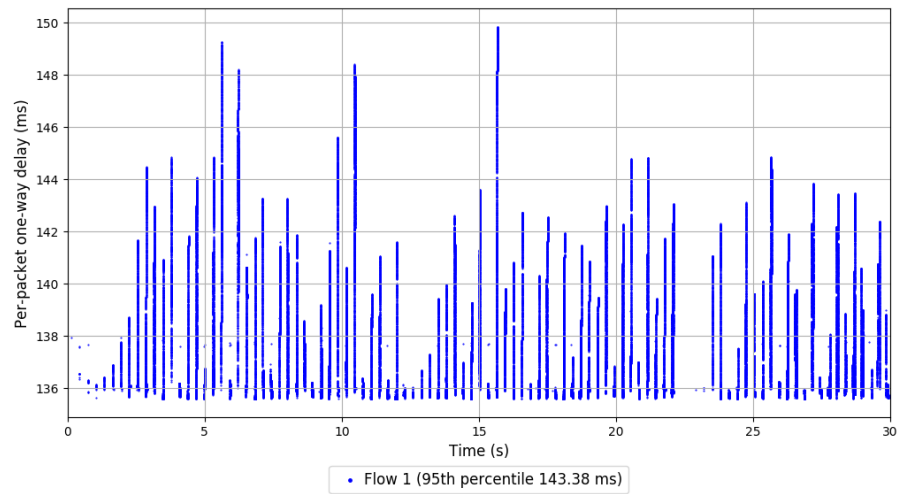
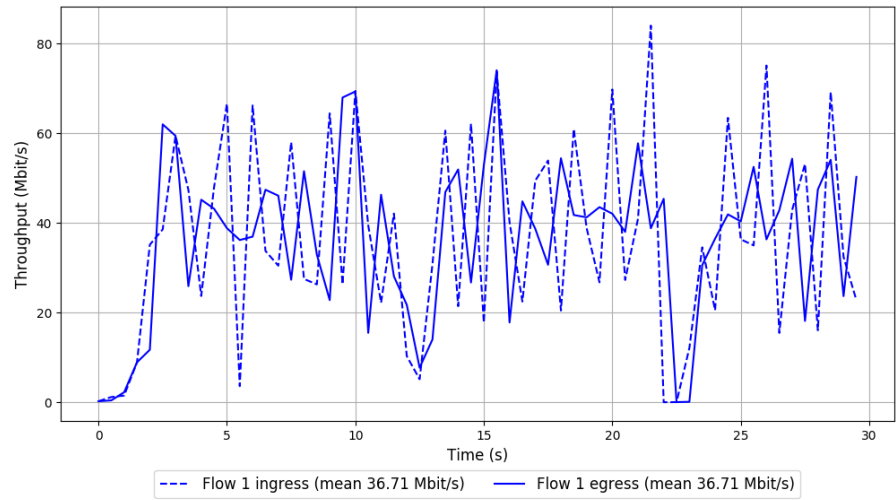
-- Flow 1:

Average throughput: 36.71 Mbit/s

95th percentile per-packet one-way delay: 143.379 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-10-11 08:01:56

End at: 2017-10-11 08:02:26

Below is generated by plot.py at 2017-10-11 08:50:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.33 Mbit/s

95th percentile per-packet one-way delay: 142.992 ms

Loss rate: 0.00%

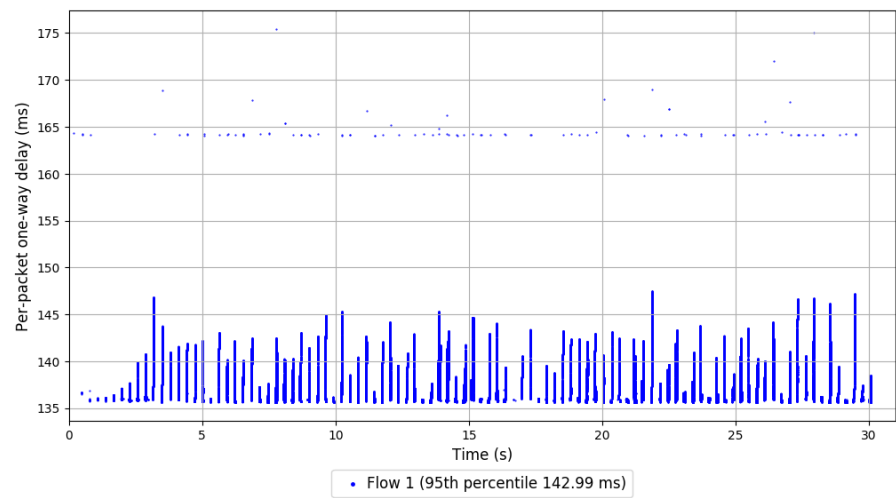
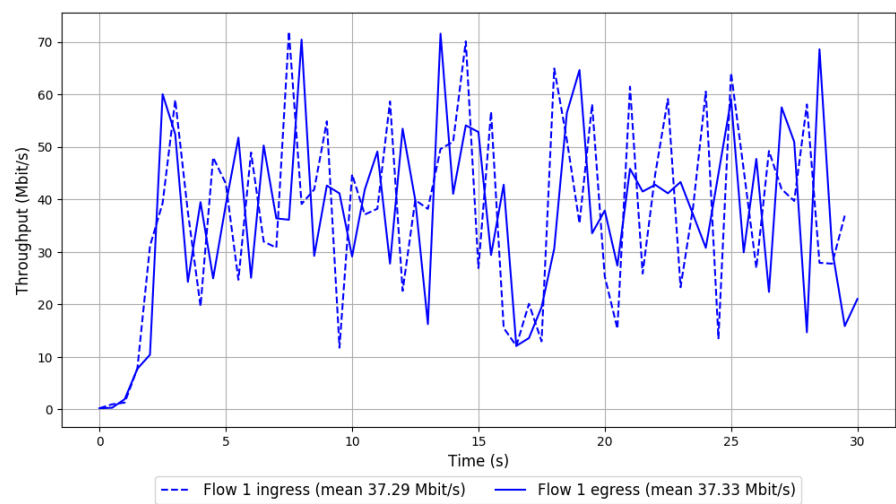
-- Flow 1:

Average throughput: 37.33 Mbit/s

95th percentile per-packet one-way delay: 142.992 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link

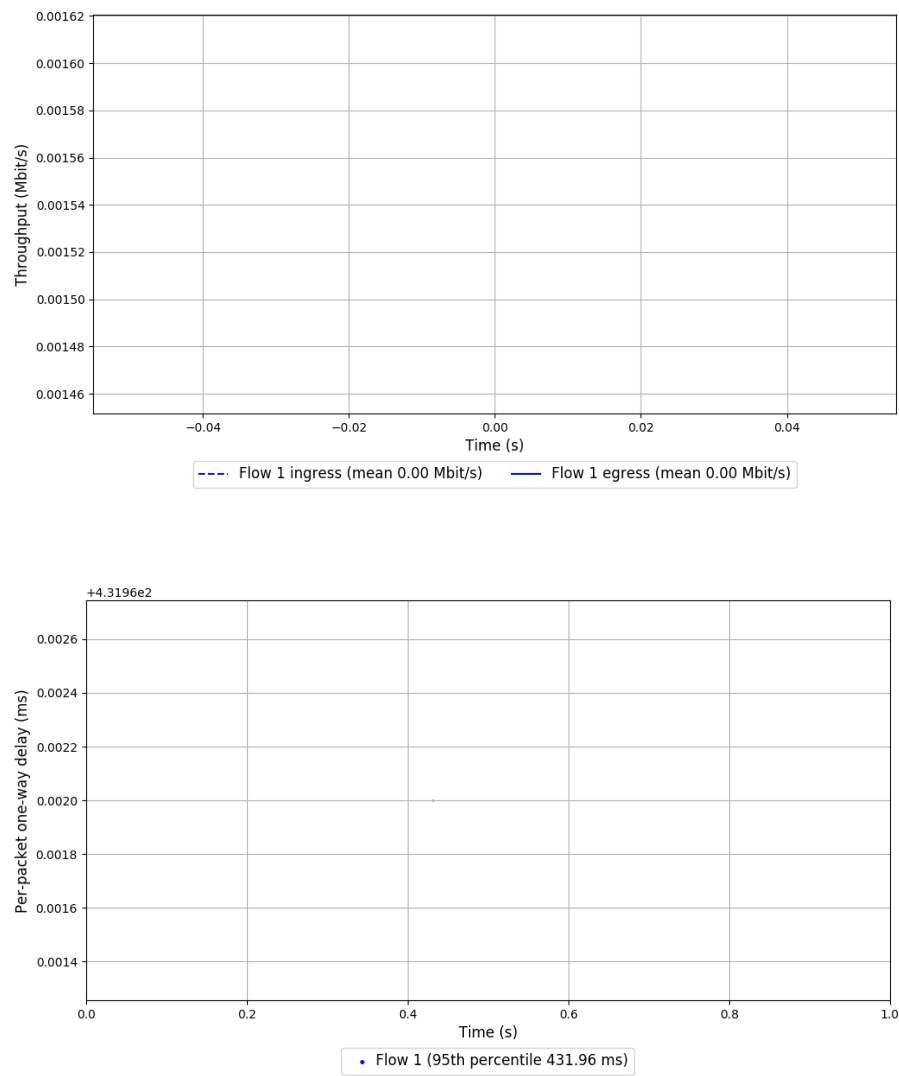


Run 10: Statistics of TCP BBR

Start at: 2017-10-11 08:13:42

End at: 2017-10-11 08:14:12

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-10-11 06:25:16

End at: 2017-10-11 06:25:46

Below is generated by plot.py at 2017-10-11 08:50:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.83 Mbit/s

95th percentile per-packet one-way delay: 143.905 ms

Loss rate: 0.00%

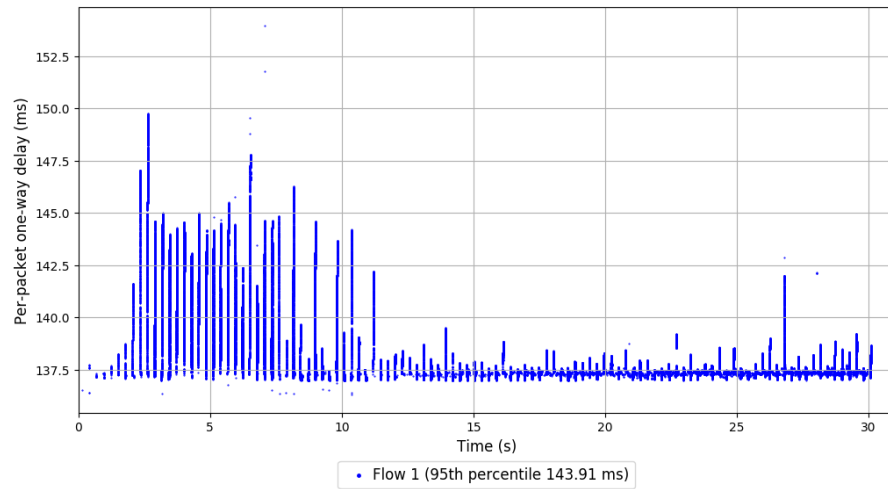
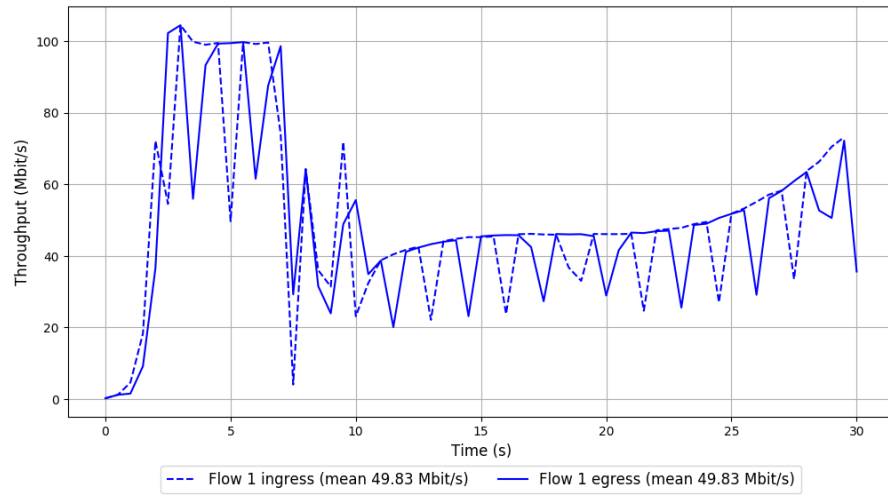
-- Flow 1:

Average throughput: 49.83 Mbit/s

95th percentile per-packet one-way delay: 143.905 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-10-11 06:37:22

End at: 2017-10-11 06:37:52

Below is generated by plot.py at 2017-10-11 08:51:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.72 Mbit/s

95th percentile per-packet one-way delay: 144.403 ms

Loss rate: 0.00%

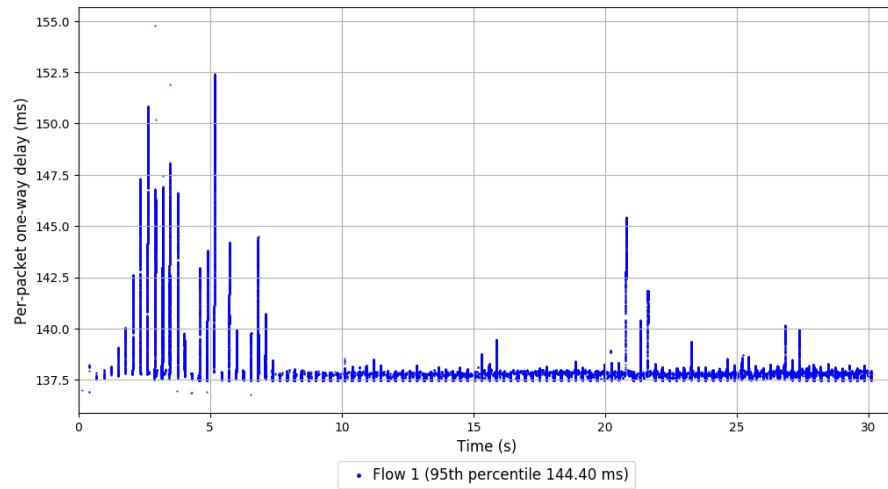
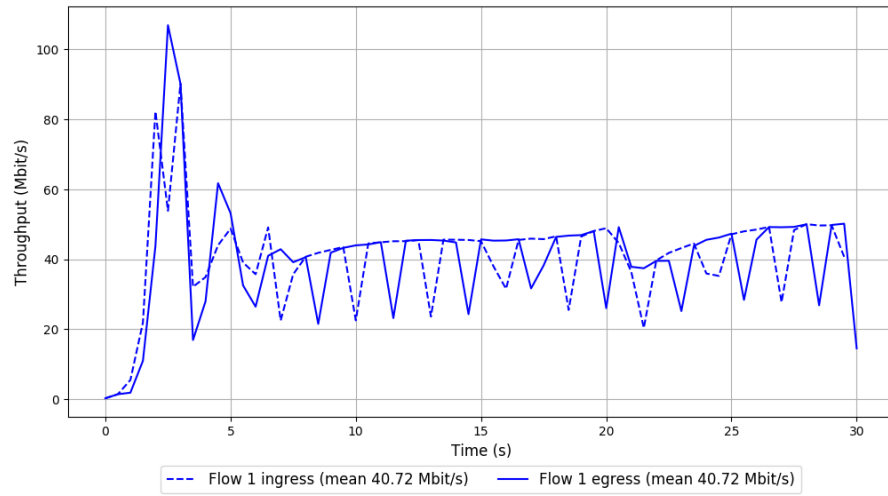
-- Flow 1:

Average throughput: 40.72 Mbit/s

95th percentile per-packet one-way delay: 144.403 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-10-11 06:49:14

End at: 2017-10-11 06:49:44

Below is generated by plot.py at 2017-10-11 08:51:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.04 Mbit/s

95th percentile per-packet one-way delay: 140.678 ms

Loss rate: 0.01%

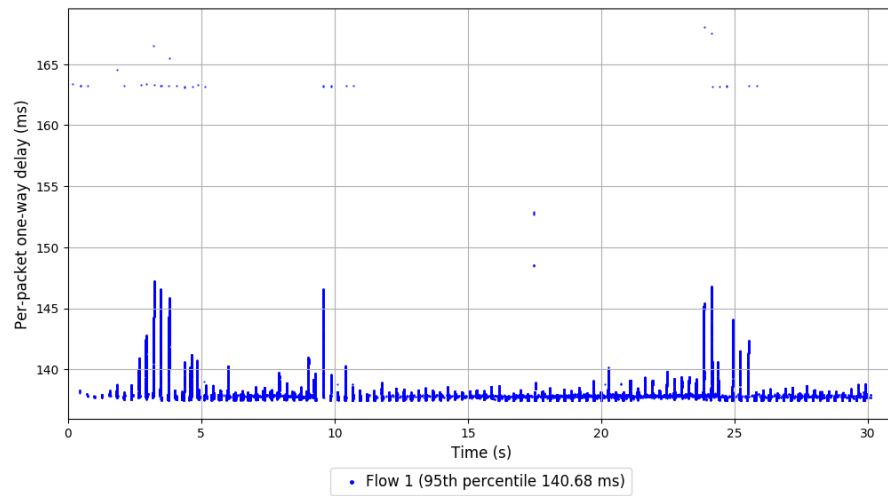
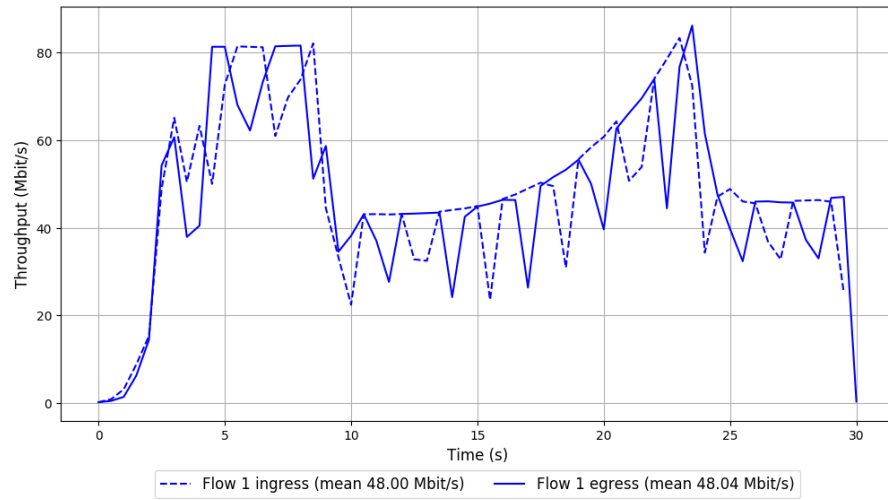
-- Flow 1:

Average throughput: 48.04 Mbit/s

95th percentile per-packet one-way delay: 140.678 ms

Loss rate: 0.01%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-10-11 07:01:19

End at: 2017-10-11 07:01:49

Below is generated by plot.py at 2017-10-11 08:51:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.20 Mbit/s

95th percentile per-packet one-way delay: 143.238 ms

Loss rate: 0.00%

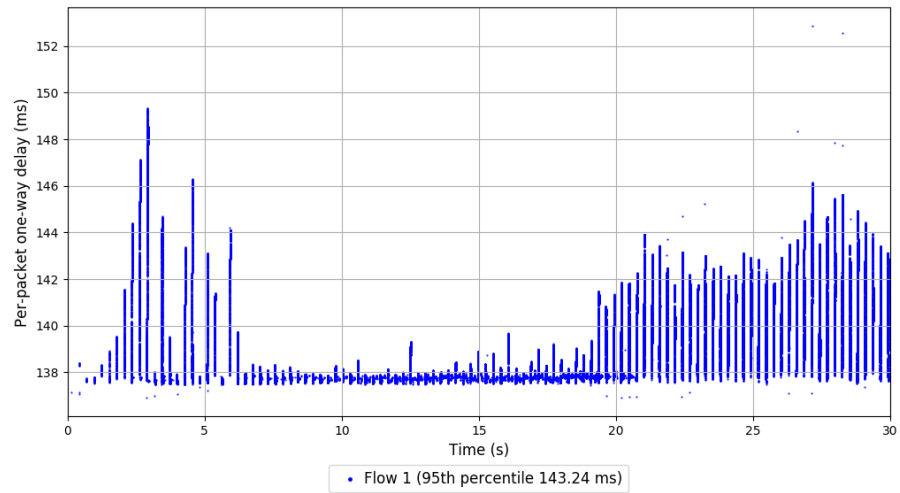
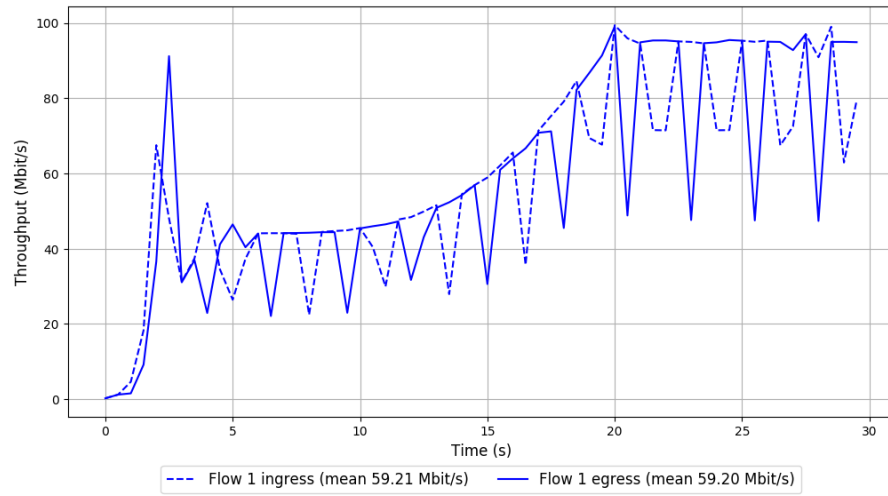
-- Flow 1:

Average throughput: 59.20 Mbit/s

95th percentile per-packet one-way delay: 143.238 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-10-11 07:13:11

End at: 2017-10-11 07:13:41

Below is generated by plot.py at 2017-10-11 08:51:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.86 Mbit/s

95th percentile per-packet one-way delay: 139.426 ms

Loss rate: 0.01%

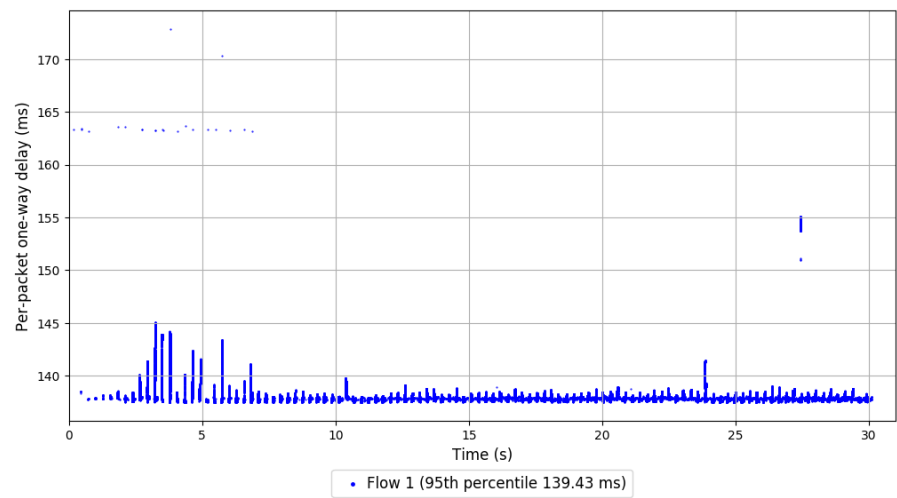
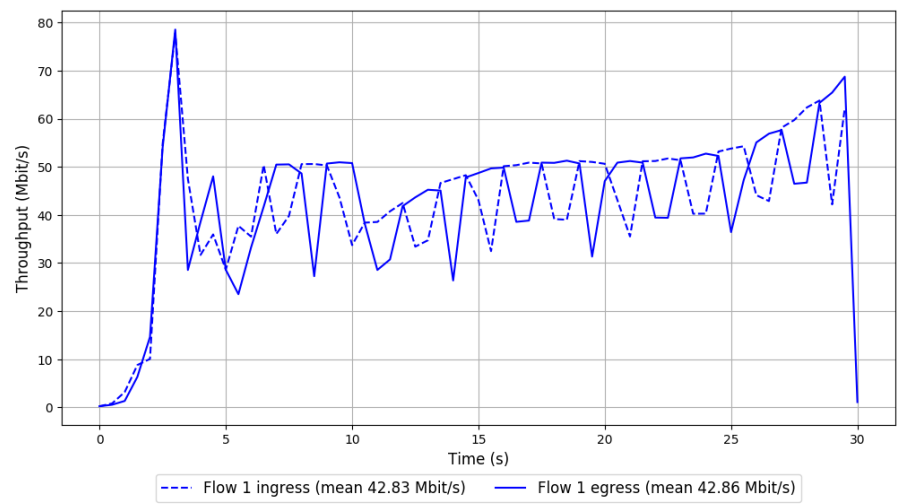
-- Flow 1:

Average throughput: 42.86 Mbit/s

95th percentile per-packet one-way delay: 139.426 ms

Loss rate: 0.01%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-10-11 07:24:49

End at: 2017-10-11 07:25:19

Below is generated by plot.py at 2017-10-11 08:51:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.87 Mbit/s

95th percentile per-packet one-way delay: 140.551 ms

Loss rate: 0.00%

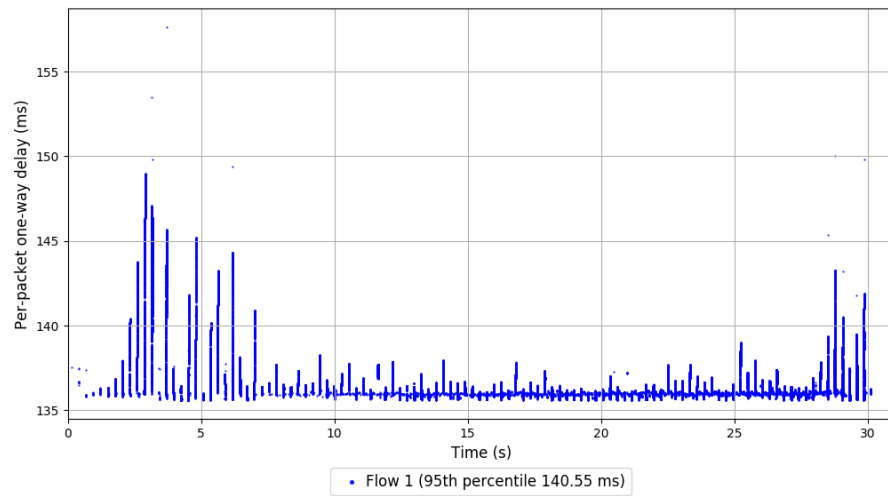
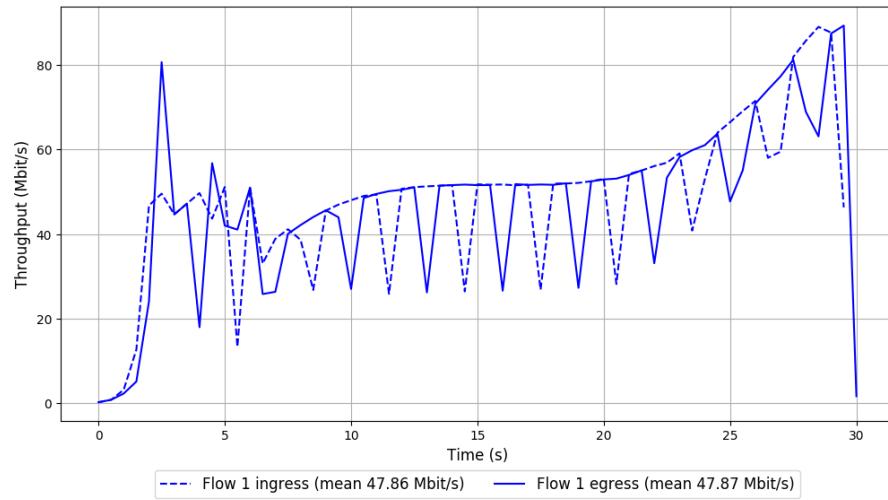
-- Flow 1:

Average throughput: 47.87 Mbit/s

95th percentile per-packet one-way delay: 140.551 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-10-11 07:36:48

End at: 2017-10-11 07:37:18

Below is generated by plot.py at 2017-10-11 08:51:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.79 Mbit/s

95th percentile per-packet one-way delay: 141.010 ms

Loss rate: 0.00%

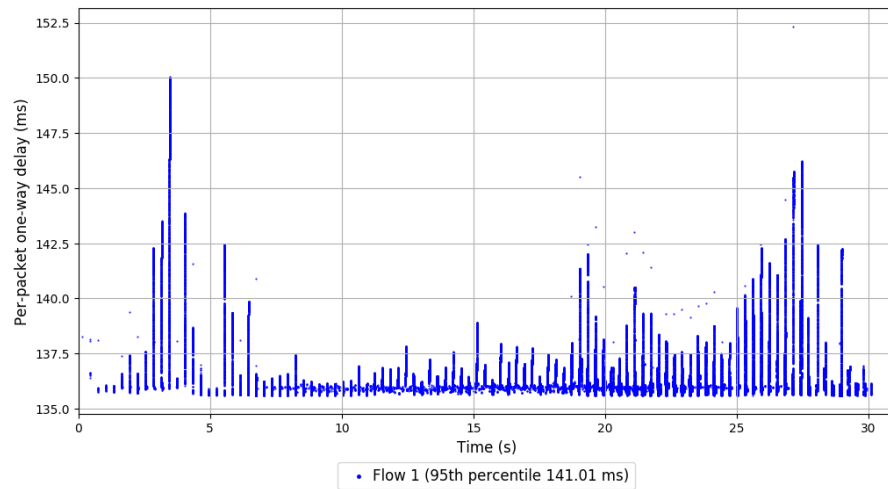
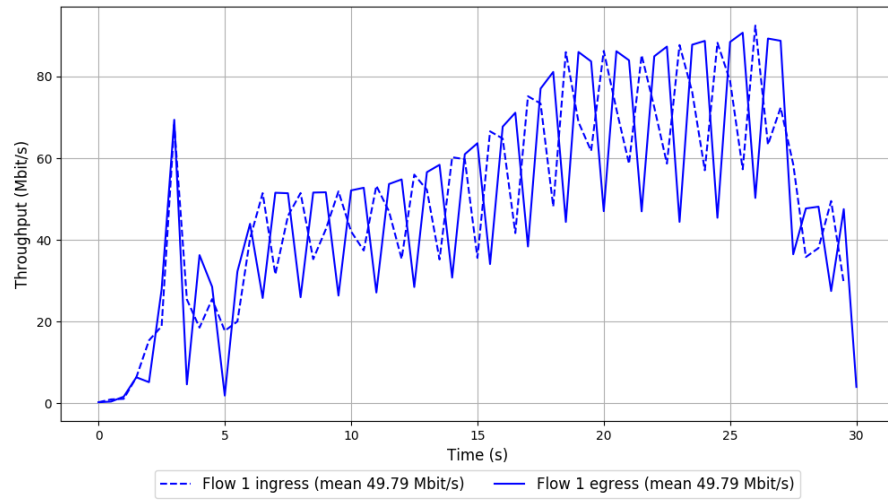
-- Flow 1:

Average throughput: 49.79 Mbit/s

95th percentile per-packet one-way delay: 141.010 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-10-11 07:48:39

End at: 2017-10-11 07:49:09

Below is generated by plot.py at 2017-10-11 08:51:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.37 Mbit/s

95th percentile per-packet one-way delay: 137.889 ms

Loss rate: 0.00%

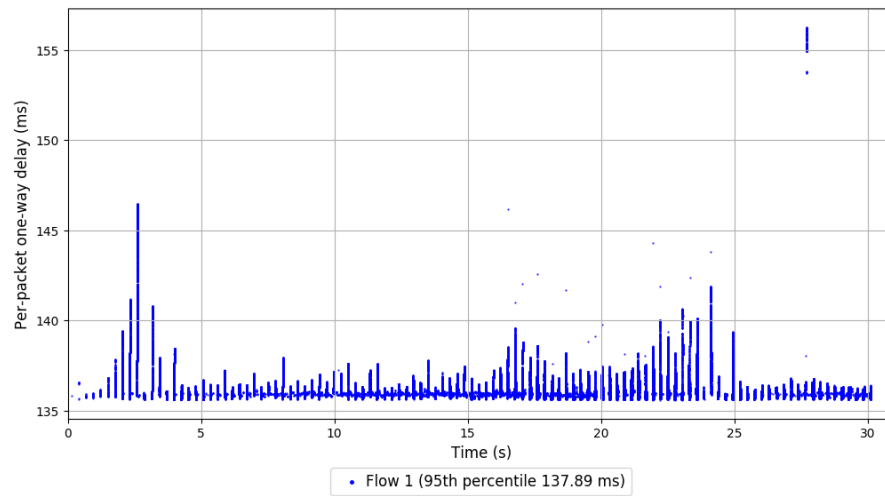
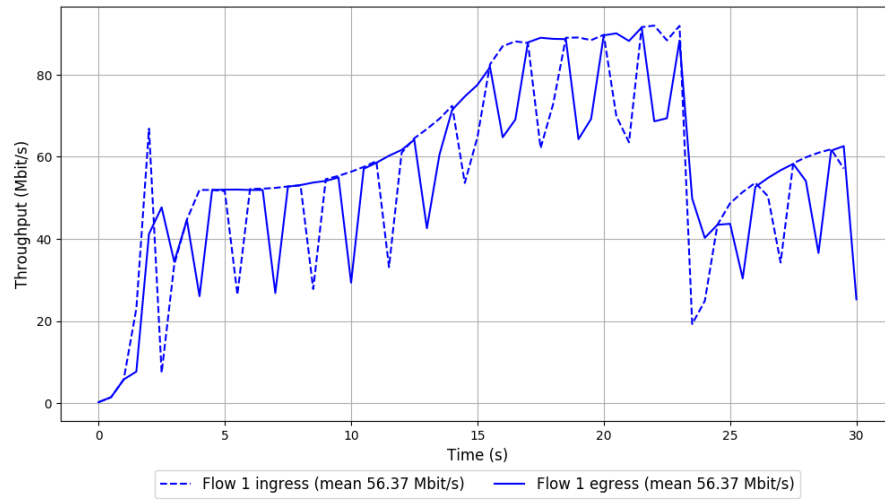
-- Flow 1:

Average throughput: 56.37 Mbit/s

95th percentile per-packet one-way delay: 137.889 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-10-11 08:00:18

End at: 2017-10-11 08:00:48

Below is generated by plot.py at 2017-10-11 08:51:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.70 Mbit/s

95th percentile per-packet one-way delay: 138.580 ms

Loss rate: 0.00%

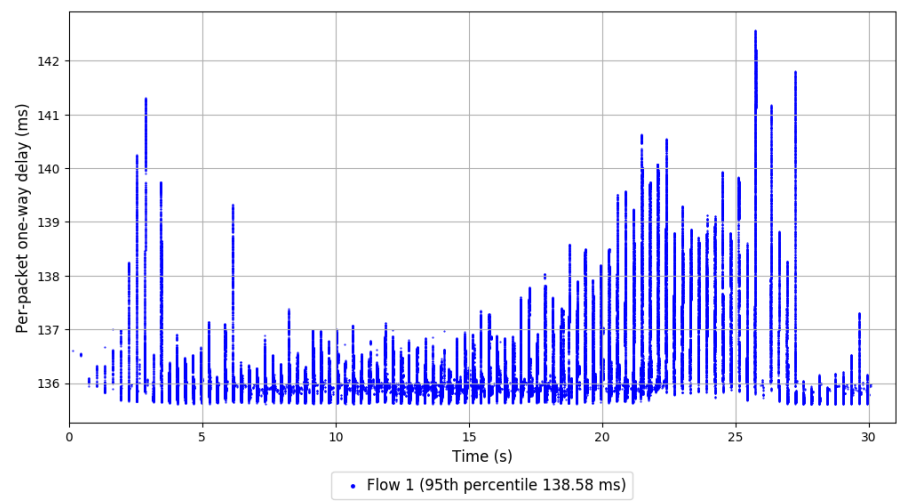
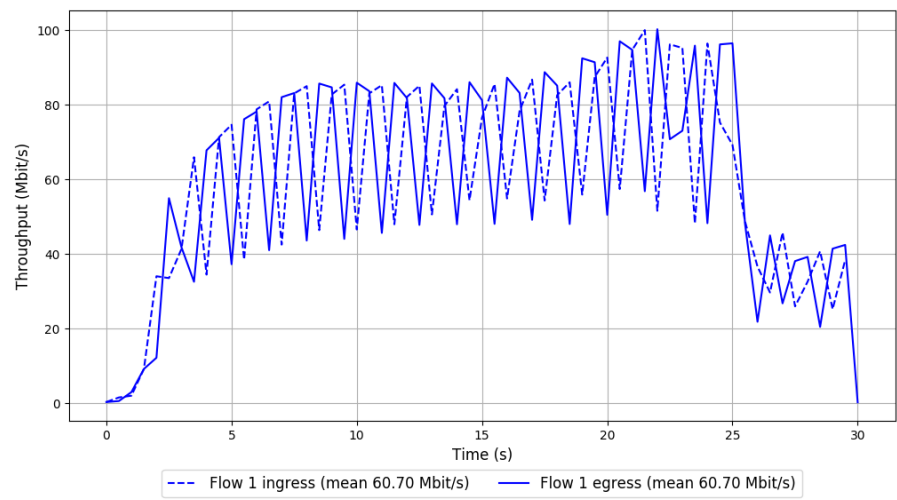
-- Flow 1:

Average throughput: 60.70 Mbit/s

95th percentile per-packet one-way delay: 138.580 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-10-11 08:12:13

End at: 2017-10-11 08:12:43

Below is generated by plot.py at 2017-10-11 08:51:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.34 Mbit/s

95th percentile per-packet one-way delay: 141.110 ms

Loss rate: 0.00%

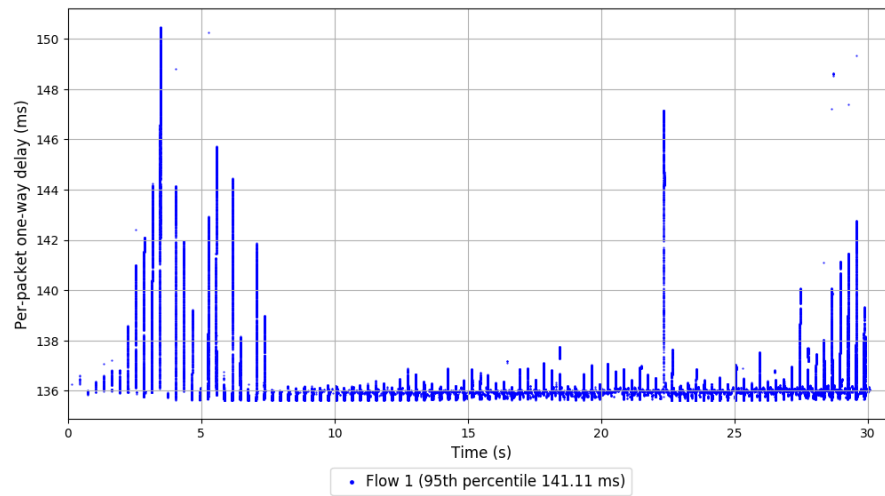
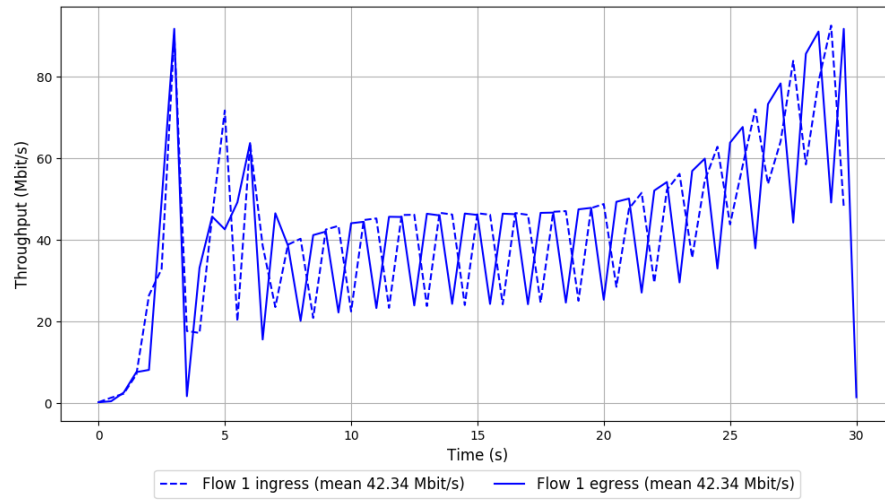
-- Flow 1:

Average throughput: 42.34 Mbit/s

95th percentile per-packet one-way delay: 141.110 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

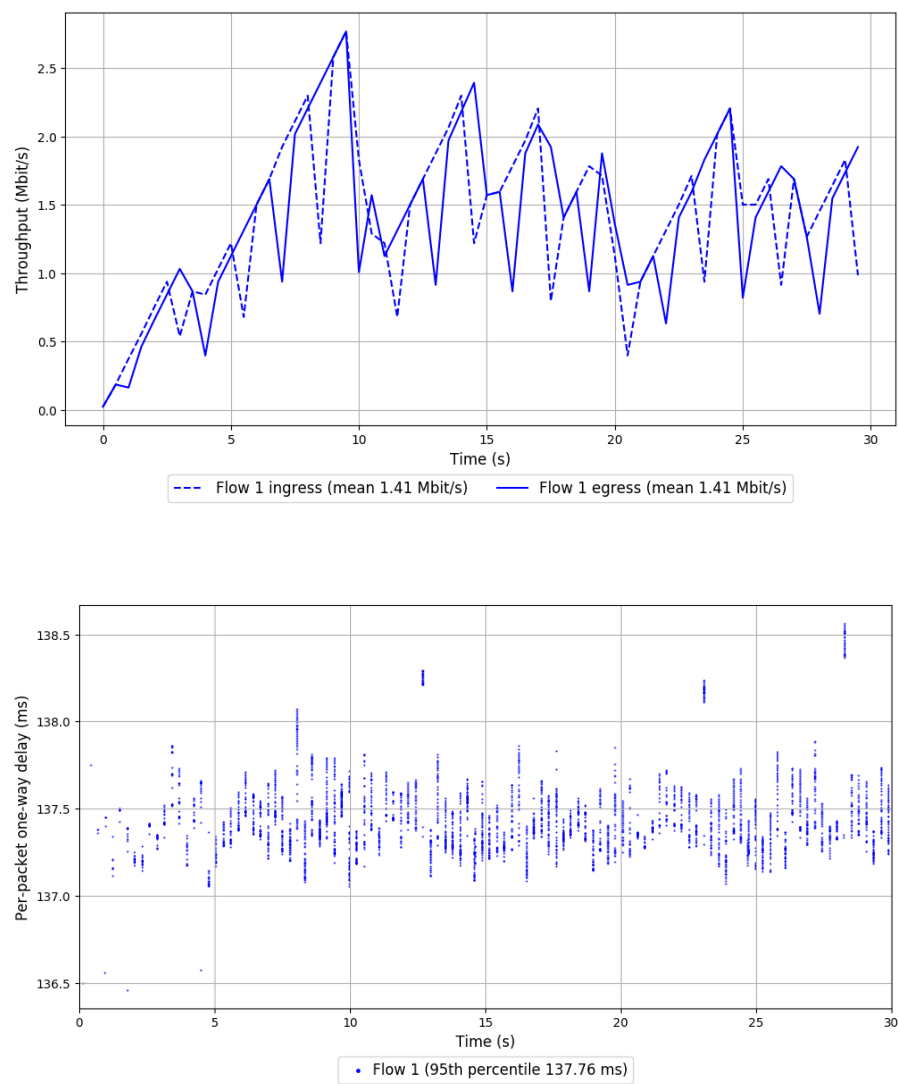


```
Run 1: Statistics of LEDBAT

Start at: 2017-10-11 06:18:42
End at: 2017-10-11 06:19:12

# Below is generated by plot.py at 2017-10-11 08:51:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 137.764 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 137.764 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-10-11 06:30:20

End at: 2017-10-11 06:30:50

Below is generated by plot.py at 2017-10-11 08:51:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.96 Mbit/s

95th percentile per-packet one-way delay: 138.771 ms

Loss rate: 0.00%

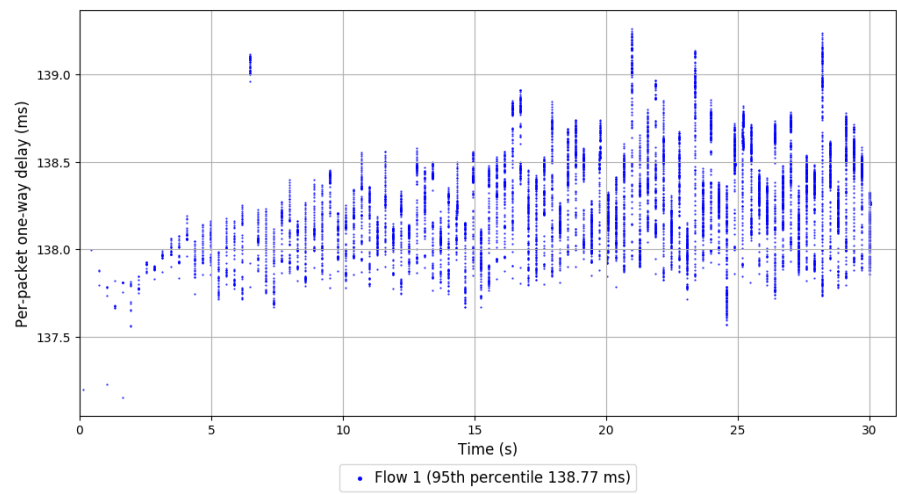
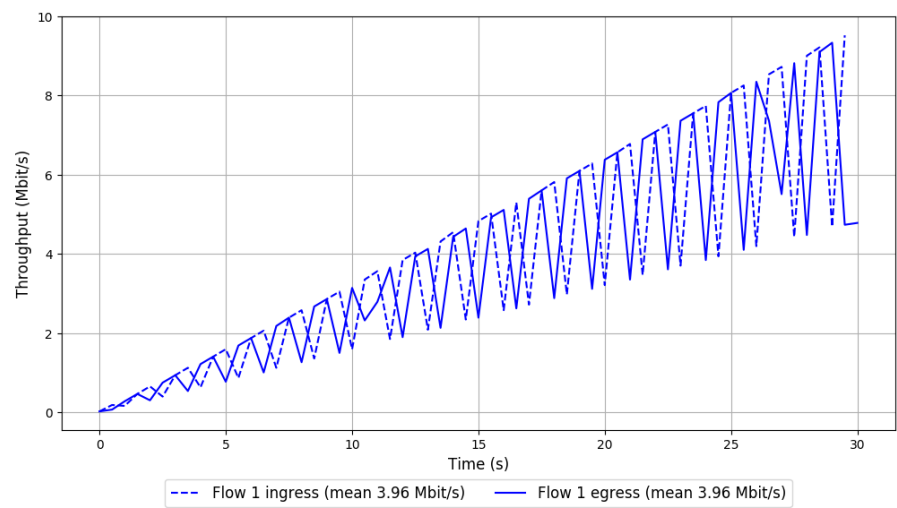
-- Flow 1:

Average throughput: 3.96 Mbit/s

95th percentile per-packet one-way delay: 138.771 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-10-11 06:42:17

End at: 2017-10-11 06:42:47

Below is generated by plot.py at 2017-10-11 08:51:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.68 Mbit/s

95th percentile per-packet one-way delay: 138.421 ms

Loss rate: 0.00%

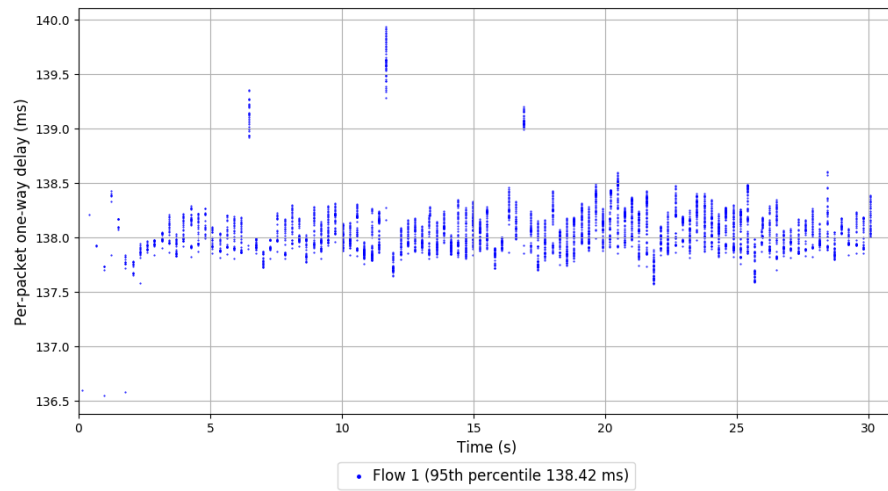
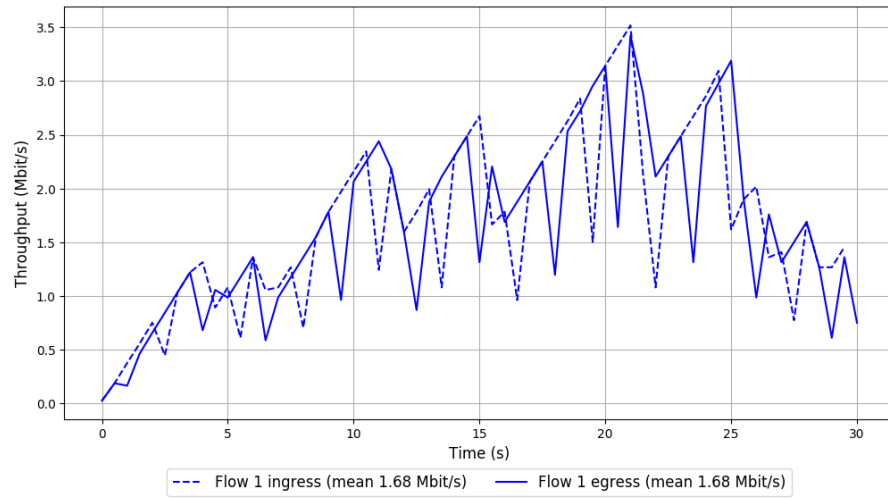
-- Flow 1:

Average throughput: 1.68 Mbit/s

95th percentile per-packet one-way delay: 138.421 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-10-11 06:54:19

End at: 2017-10-11 06:54:49

Below is generated by plot.py at 2017-10-11 08:51:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 138.200 ms

Loss rate: 0.33%

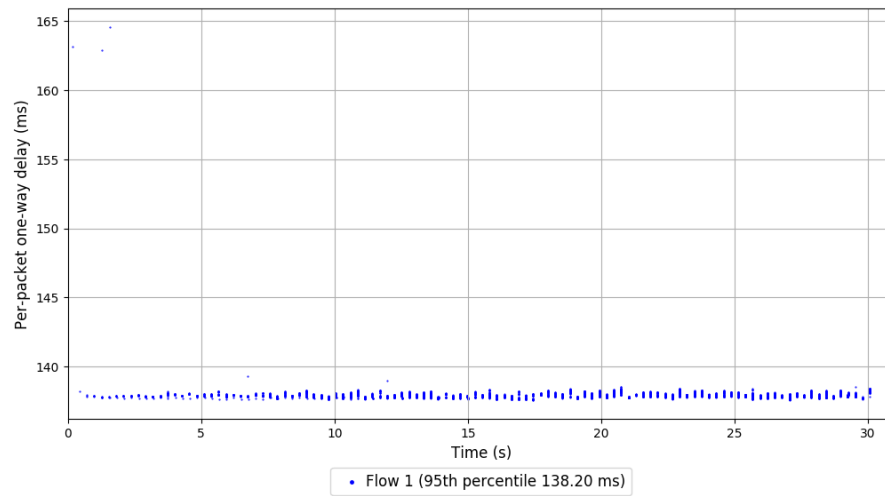
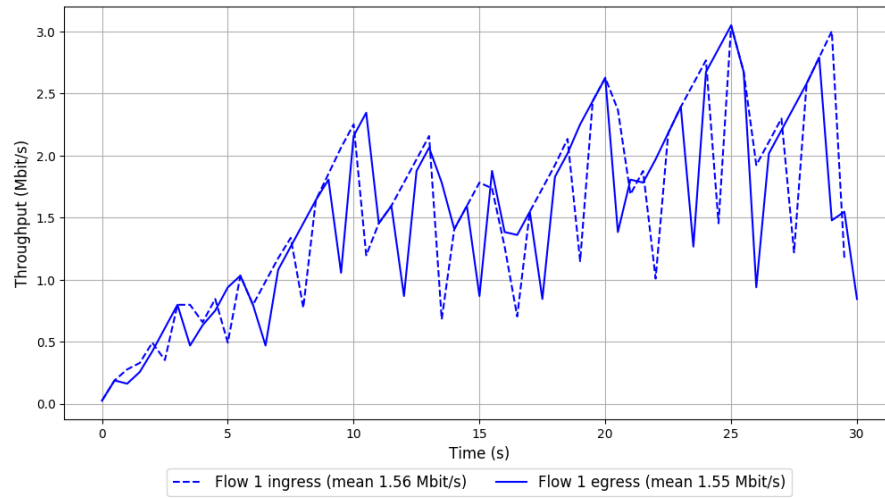
-- Flow 1:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 138.200 ms

Loss rate: 0.33%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-10-11 07:06:16

End at: 2017-10-11 07:06:46

Below is generated by plot.py at 2017-10-11 08:51:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.00 Mbit/s

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

Loss rate: 0.00%

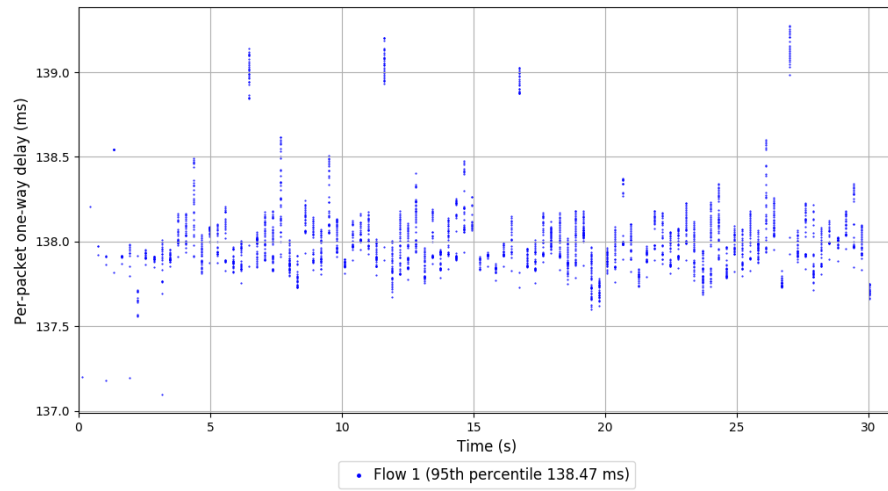
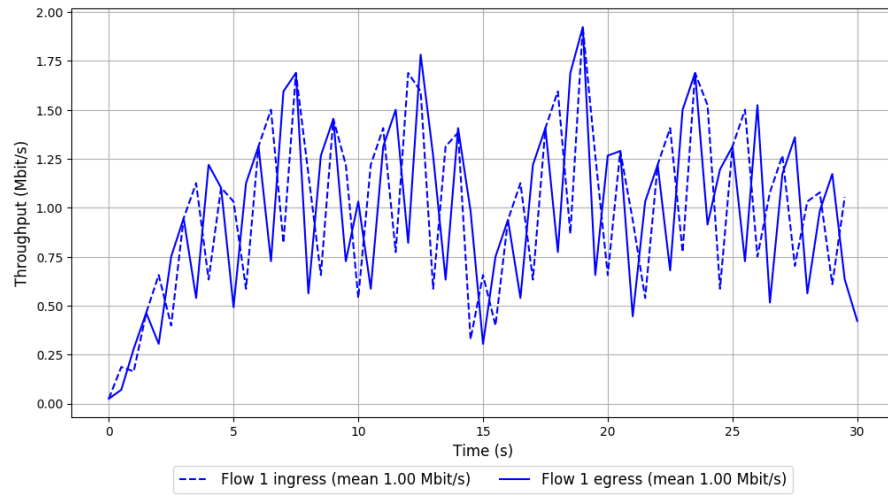
-- Flow 1:

Average throughput: 1.00 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-10-11 07:18:08

End at: 2017-10-11 07:18:38

Below is generated by plot.py at 2017-10-11 08:51:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 138.245 ms

Loss rate: 0.07%

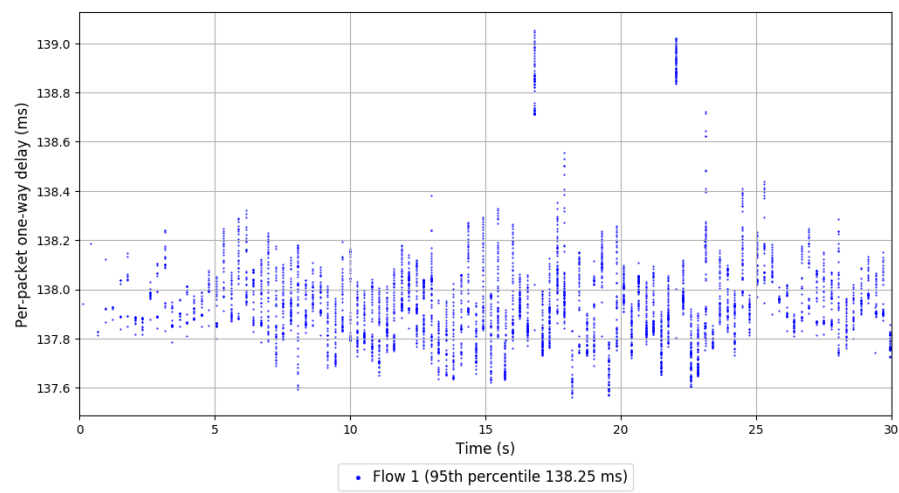
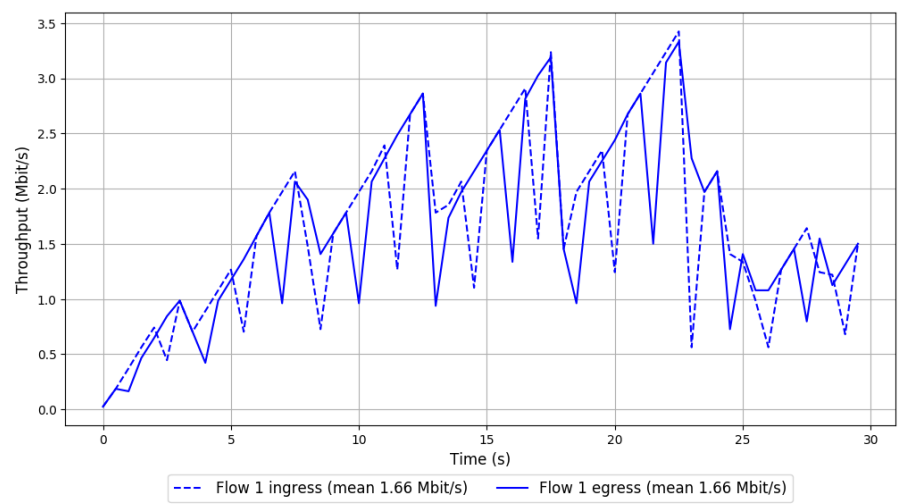
-- Flow 1:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 138.245 ms

Loss rate: 0.07%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-10-11 07:29:55

End at: 2017-10-11 07:30:25

Below is generated by plot.py at 2017-10-11 08:51:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.12 Mbit/s

95th percentile per-packet one-way delay: 136.895 ms

Loss rate: 0.00%

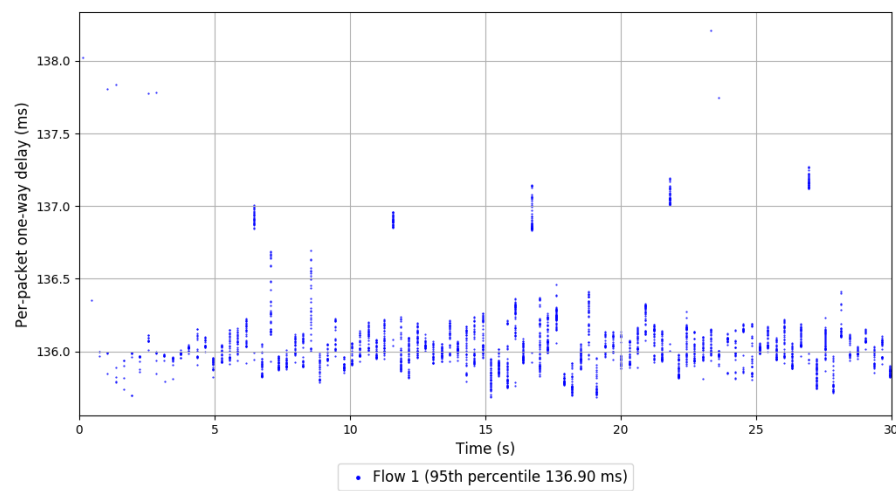
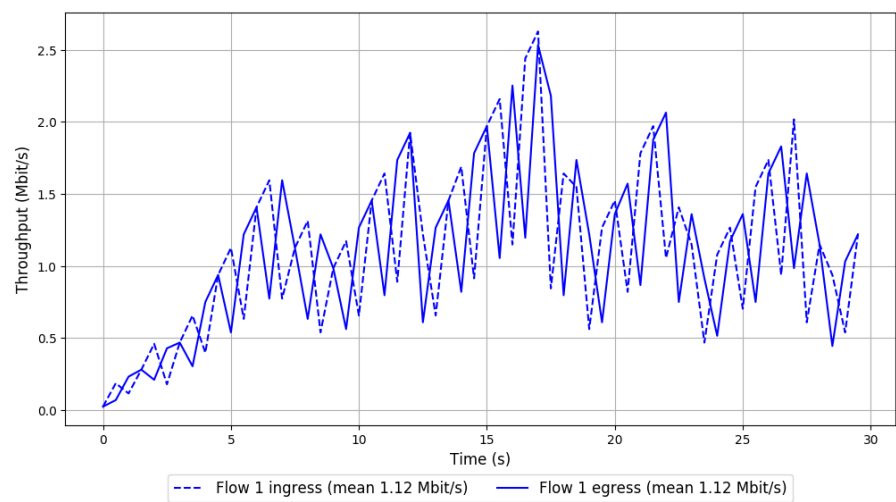
-- Flow 1:

Average throughput: 1.12 Mbit/s

95th percentile per-packet one-way delay: 136.895 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-10-11 07:41:47

End at: 2017-10-11 07:42:17

Below is generated by plot.py at 2017-10-11 08:51:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 136.466 ms

Loss rate: 0.00%

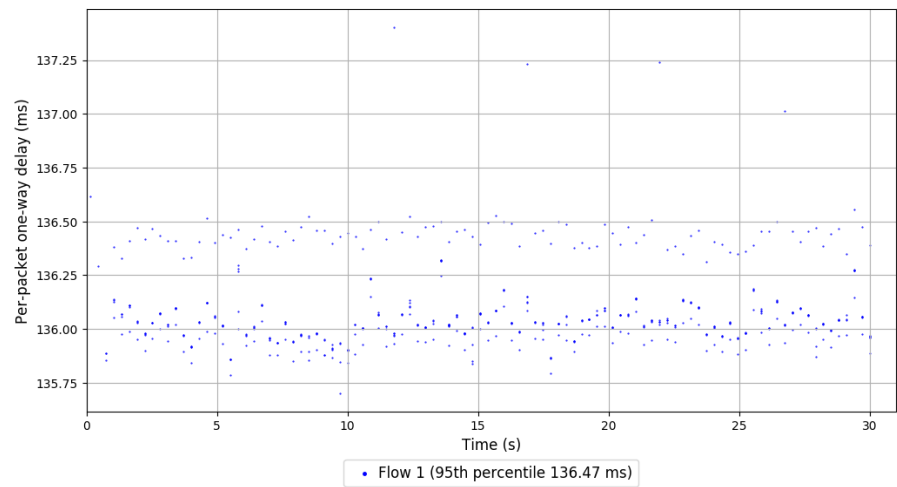
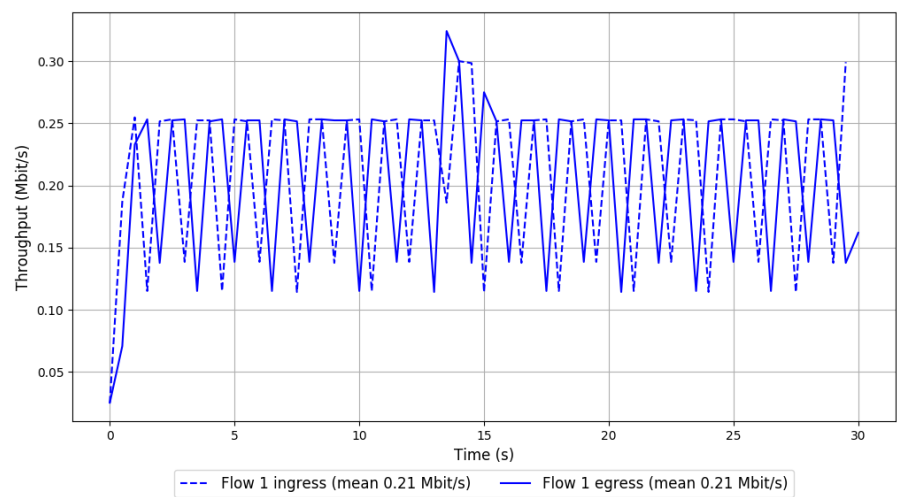
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 136.466 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-10-11 07:53:47

End at: 2017-10-11 07:54:17

Below is generated by plot.py at 2017-10-11 08:51:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.80 Mbit/s

95th percentile per-packet one-way delay: 136.435 ms

Loss rate: 0.10%

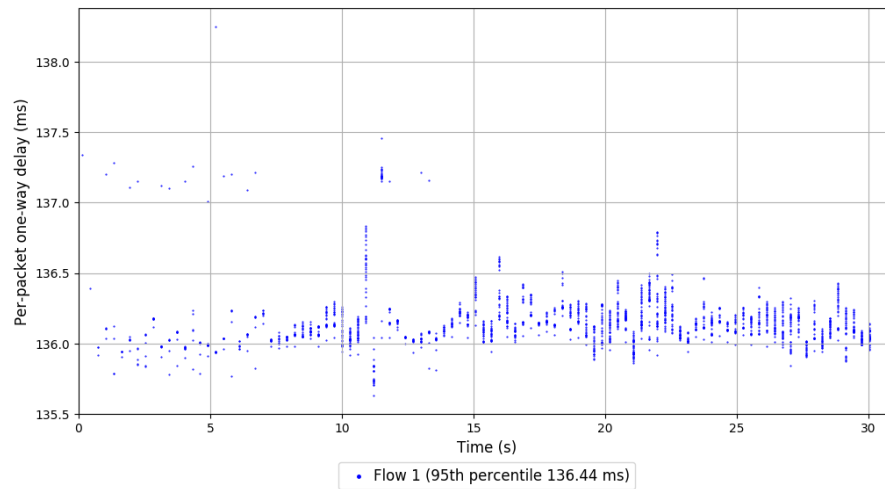
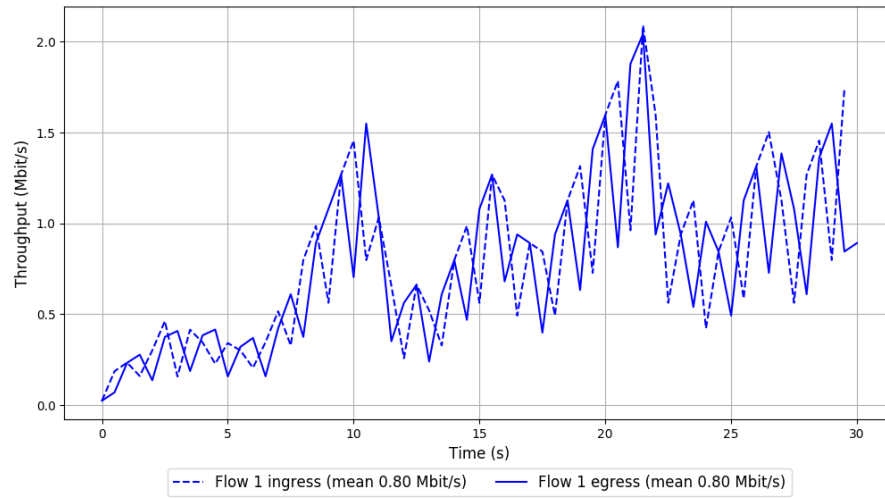
-- Flow 1:

Average throughput: 0.80 Mbit/s

95th percentile per-packet one-way delay: 136.435 ms

Loss rate: 0.10%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-10-11 08:05:24

End at: 2017-10-11 08:05:54

Below is generated by plot.py at 2017-10-11 08:51:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 136.430 ms

Loss rate: 0.13%

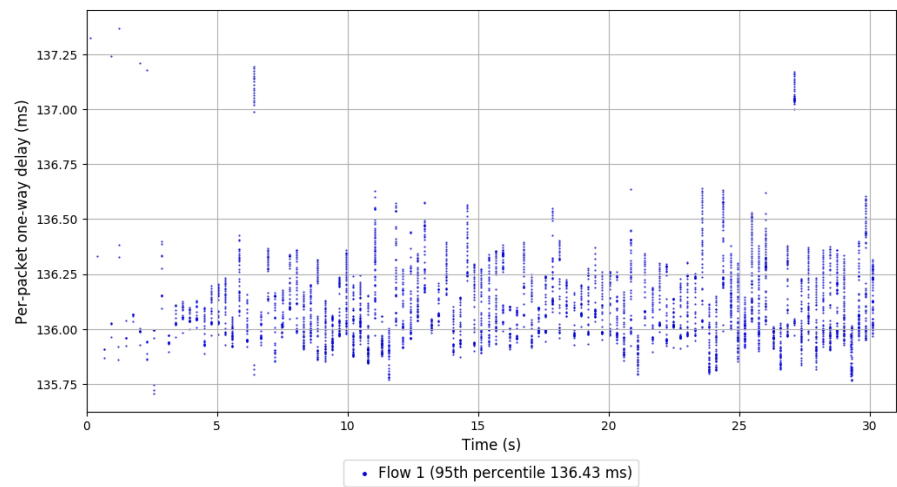
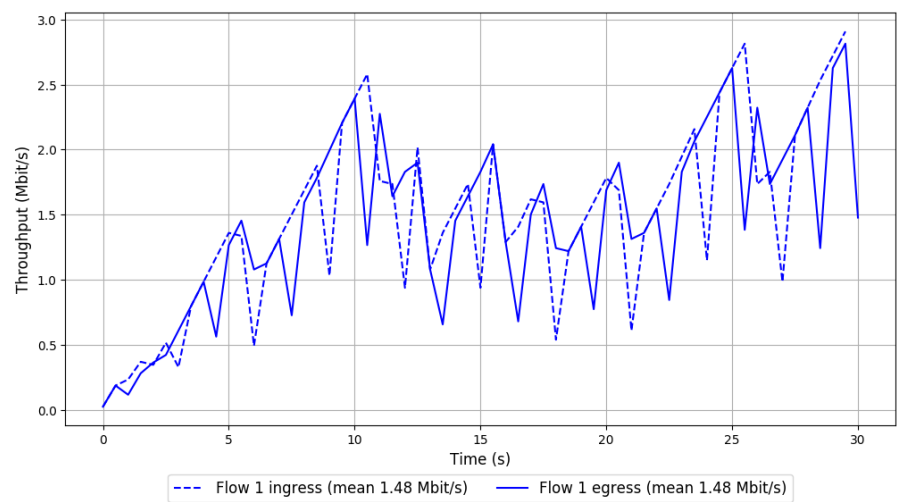
-- Flow 1:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 136.430 ms

Loss rate: 0.13%

Run 10: Report of LEDBAT — Data Link

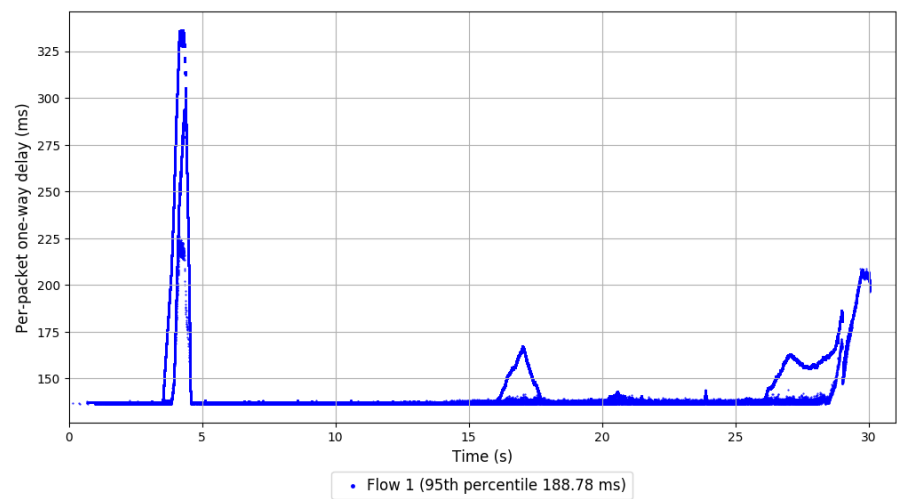
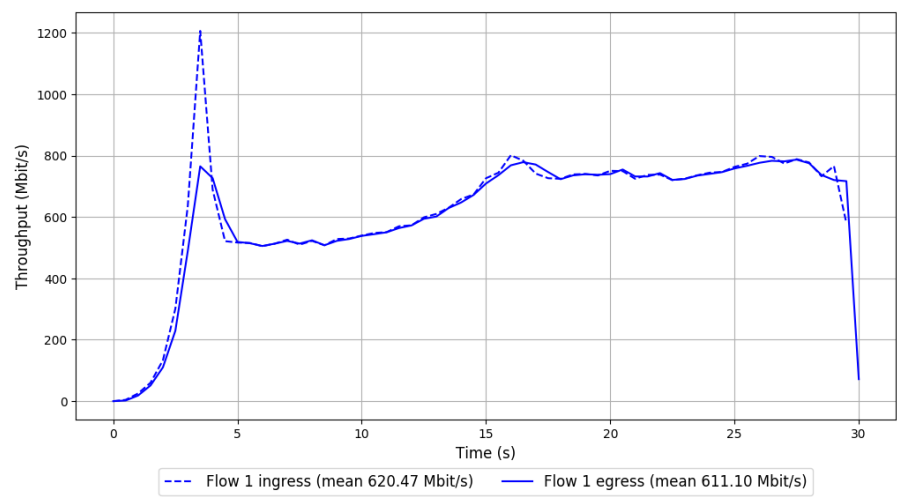


```
Run 1: Statistics of PCC

Start at: 2017-10-11 06:24:06
End at: 2017-10-11 06:24:36

# Below is generated by plot.py at 2017-10-11 09:01:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 611.10 Mbit/s
95th percentile per-packet one-way delay: 188.781 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 611.10 Mbit/s
95th percentile per-packet one-way delay: 188.781 ms
Loss rate: 1.43%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-10-11 06:36:13

End at: 2017-10-11 06:36:43

Below is generated by plot.py at 2017-10-11 09:01:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 604.72 Mbit/s

95th percentile per-packet one-way delay: 188.663 ms

Loss rate: 1.33%

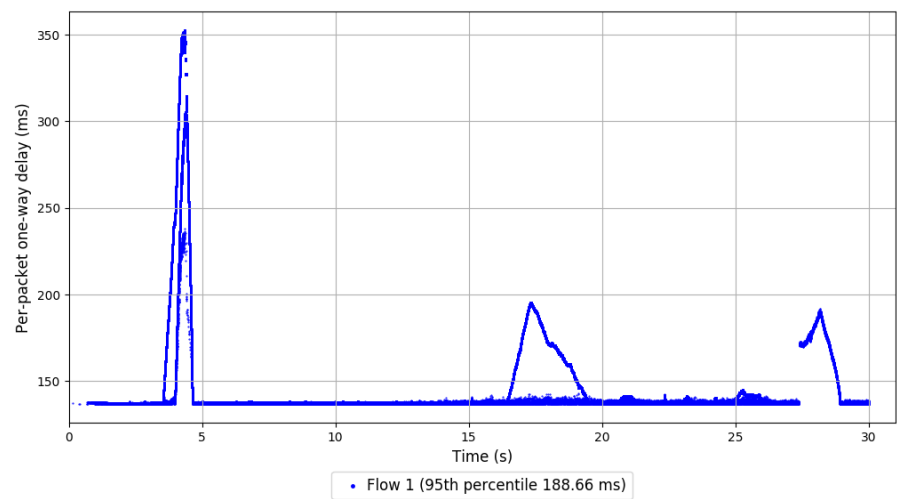
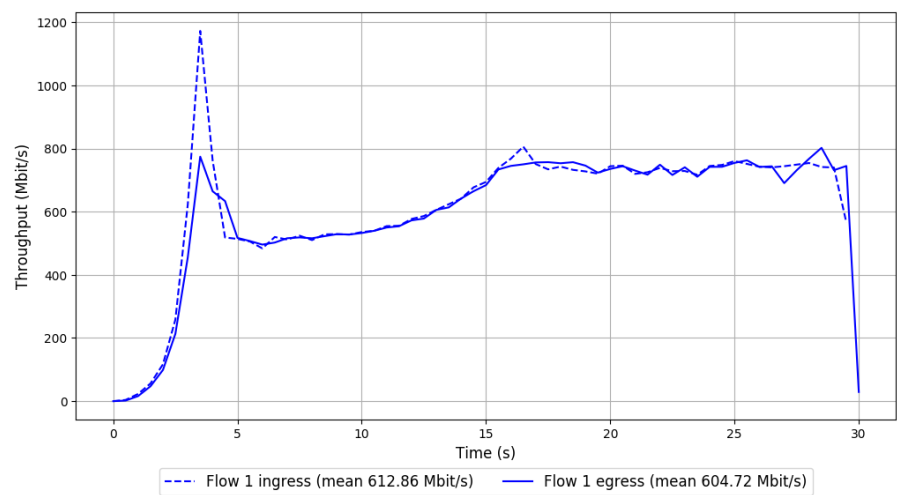
-- Flow 1:

Average throughput: 604.72 Mbit/s

95th percentile per-packet one-way delay: 188.663 ms

Loss rate: 1.33%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-10-11 06:48:06

End at: 2017-10-11 06:48:36

Below is generated by plot.py at 2017-10-11 09:01:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 538.08 Mbit/s

95th percentile per-packet one-way delay: 205.251 ms

Loss rate: 1.93%

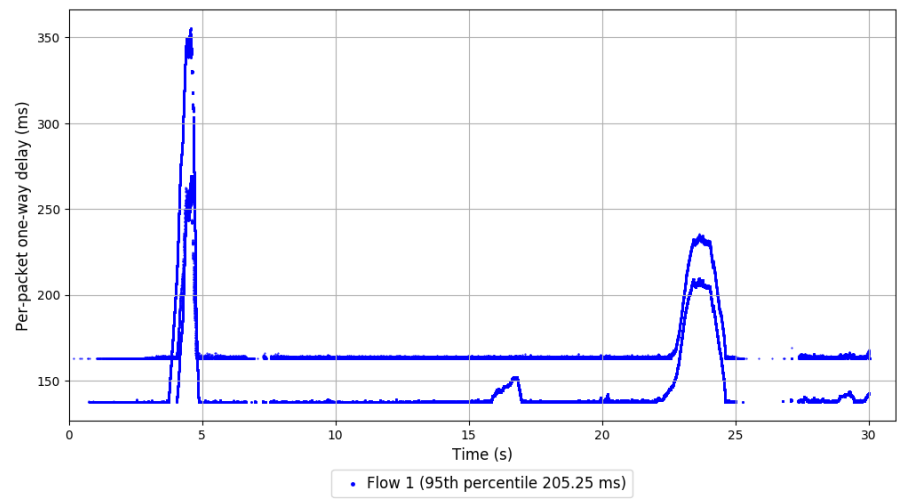
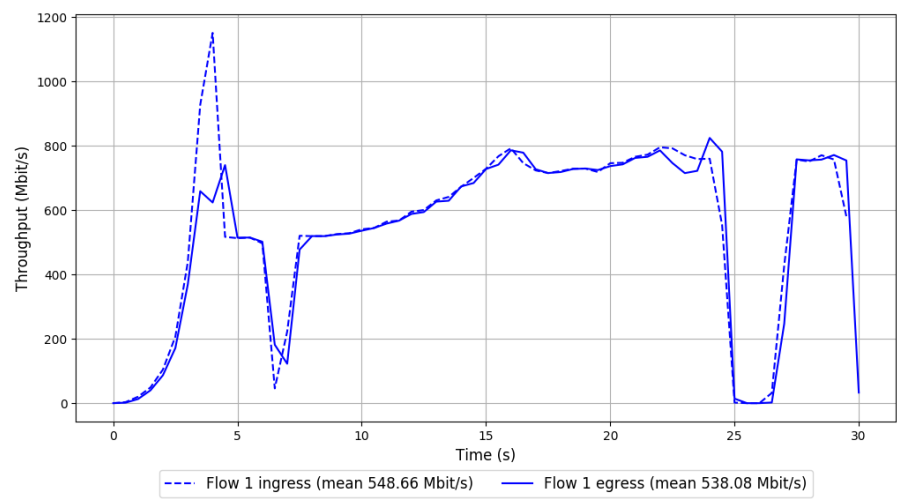
-- Flow 1:

Average throughput: 538.08 Mbit/s

95th percentile per-packet one-way delay: 205.251 ms

Loss rate: 1.93%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-10-11 07:00:10

End at: 2017-10-11 07:00:40

Below is generated by plot.py at 2017-10-11 09:01:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 585.43 Mbit/s

95th percentile per-packet one-way delay: 219.558 ms

Loss rate: 1.83%

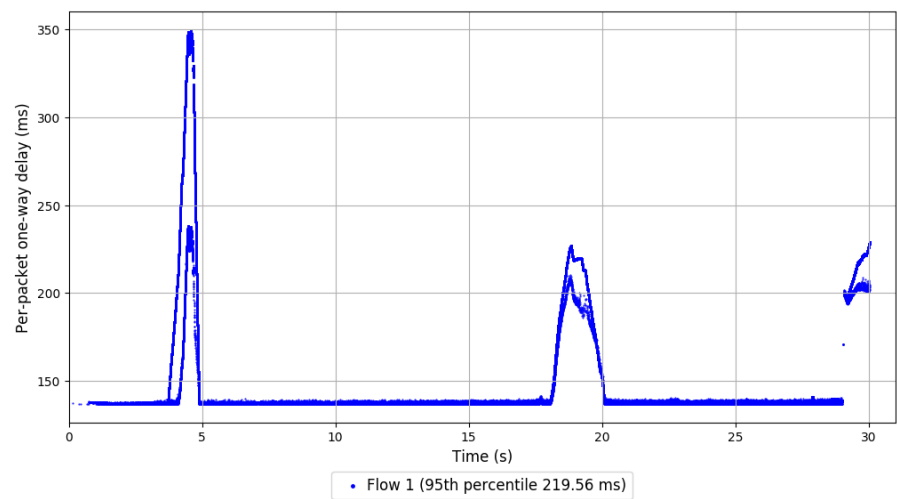
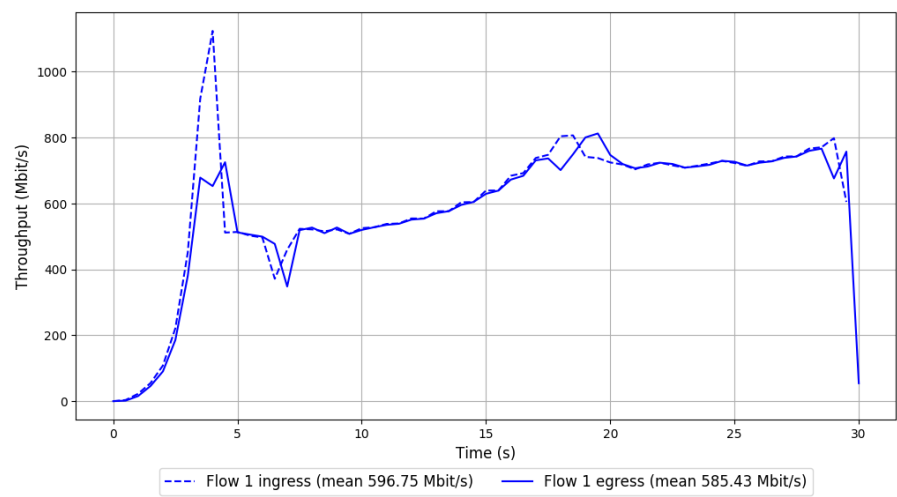
-- Flow 1:

Average throughput: 585.43 Mbit/s

95th percentile per-packet one-way delay: 219.558 ms

Loss rate: 1.83%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-10-11 07:12:00

End at: 2017-10-11 07:12:30

Below is generated by plot.py at 2017-10-11 09:01:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 603.86 Mbit/s

95th percentile per-packet one-way delay: 234.280 ms

Loss rate: 1.67%

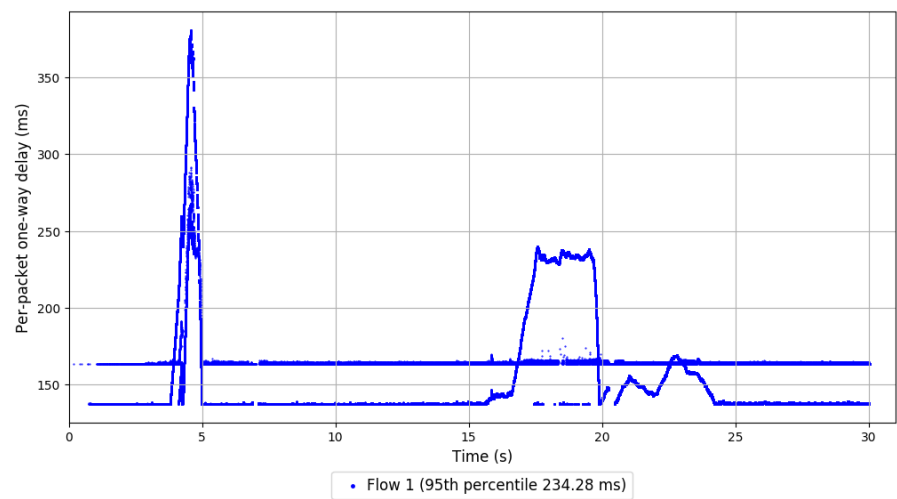
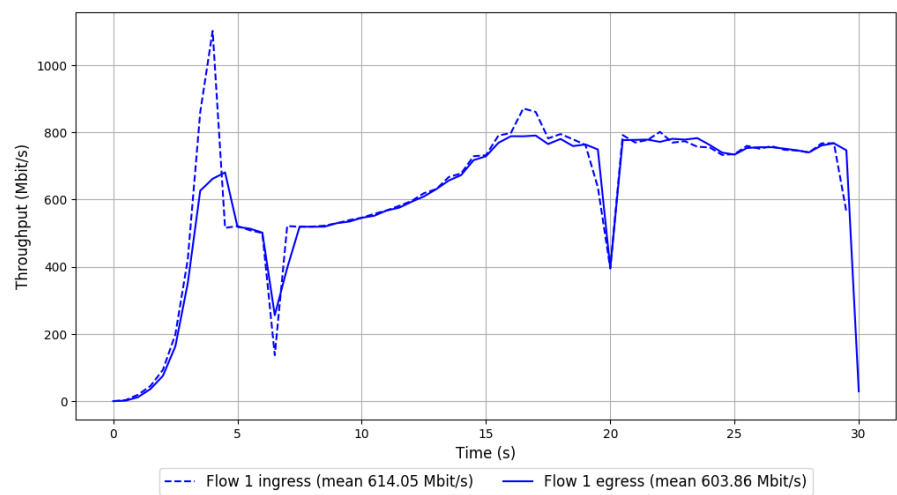
-- Flow 1:

Average throughput: 603.86 Mbit/s

95th percentile per-packet one-way delay: 234.280 ms

Loss rate: 1.67%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-10-11 07:23:41

End at: 2017-10-11 07:24:11

Below is generated by plot.py at 2017-10-11 09:01:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 572.41 Mbit/s

95th percentile per-packet one-way delay: 231.904 ms

Loss rate: 1.92%

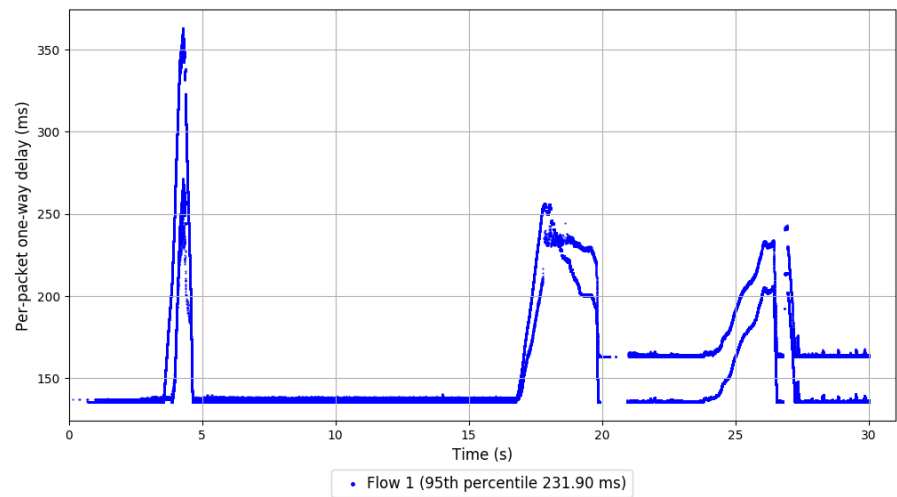
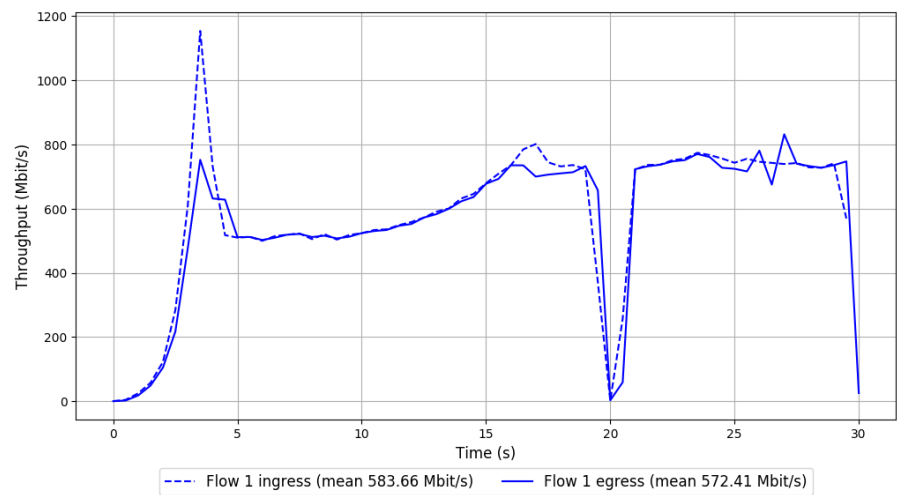
-- Flow 1:

Average throughput: 572.41 Mbit/s

95th percentile per-packet one-way delay: 231.904 ms

Loss rate: 1.92%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-10-11 07:35:39

End at: 2017-10-11 07:36:09

Below is generated by plot.py at 2017-10-11 09:01:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 576.01 Mbit/s

95th percentile per-packet one-way delay: 229.902 ms

Loss rate: 2.14%

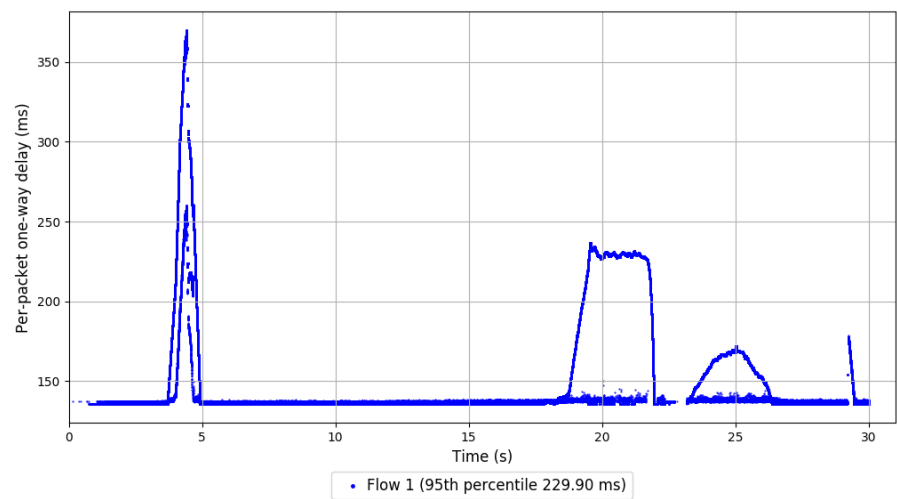
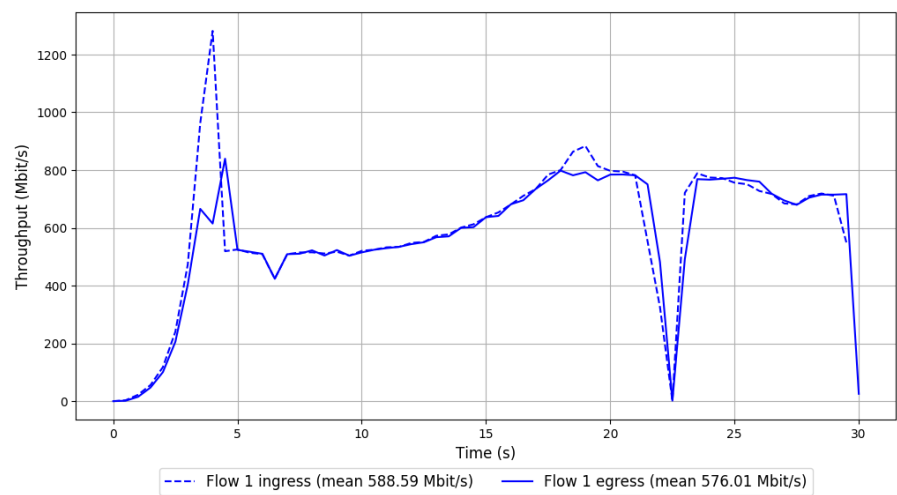
-- Flow 1:

Average throughput: 576.01 Mbit/s

95th percentile per-packet one-way delay: 229.902 ms

Loss rate: 2.14%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-10-11 07:47:31

End at: 2017-10-11 07:48:01

Below is generated by plot.py at 2017-10-11 09:01:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 564.92 Mbit/s

95th percentile per-packet one-way delay: 234.692 ms

Loss rate: 3.21%

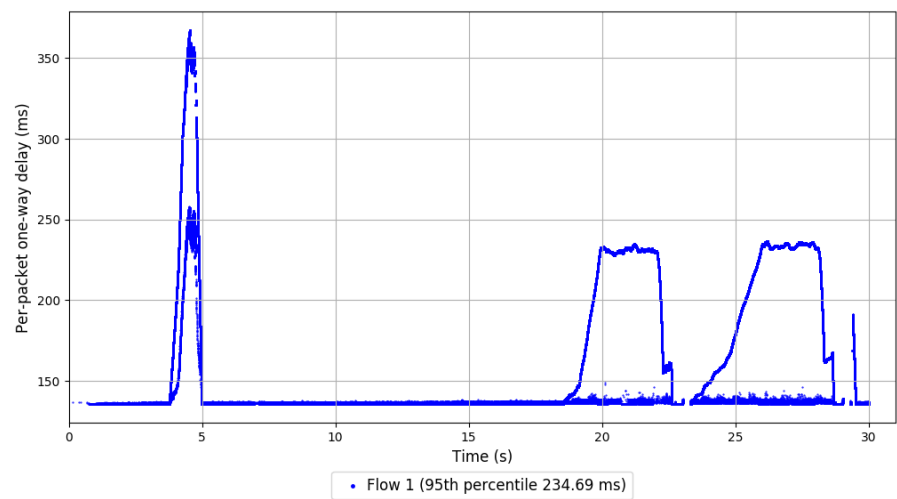
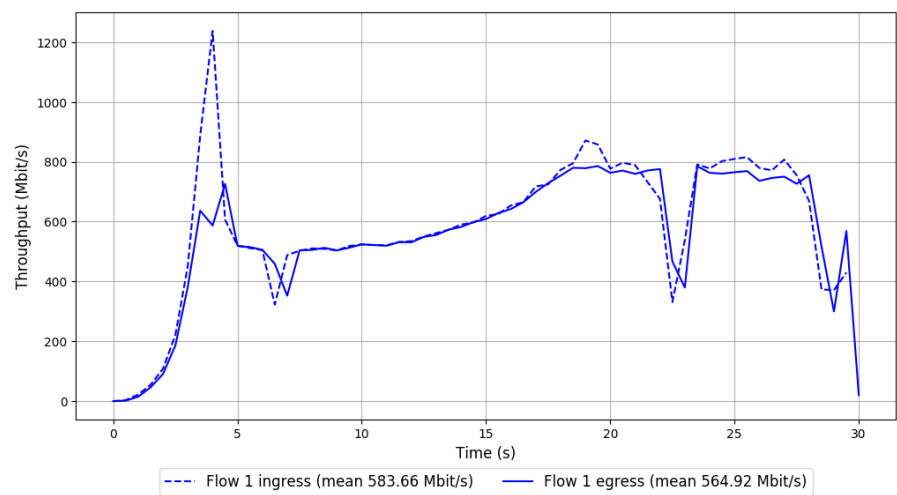
-- Flow 1:

Average throughput: 564.92 Mbit/s

95th percentile per-packet one-way delay: 234.692 ms

Loss rate: 3.21%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-10-11 07:59:07

End at: 2017-10-11 07:59:37

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 596.84 Mbit/s

95th percentile per-packet one-way delay: 229.849 ms

Loss rate: 2.48%

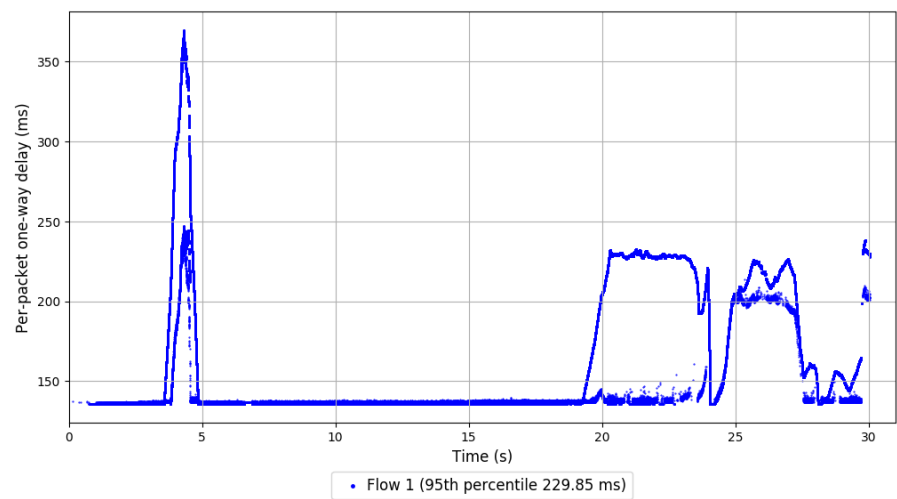
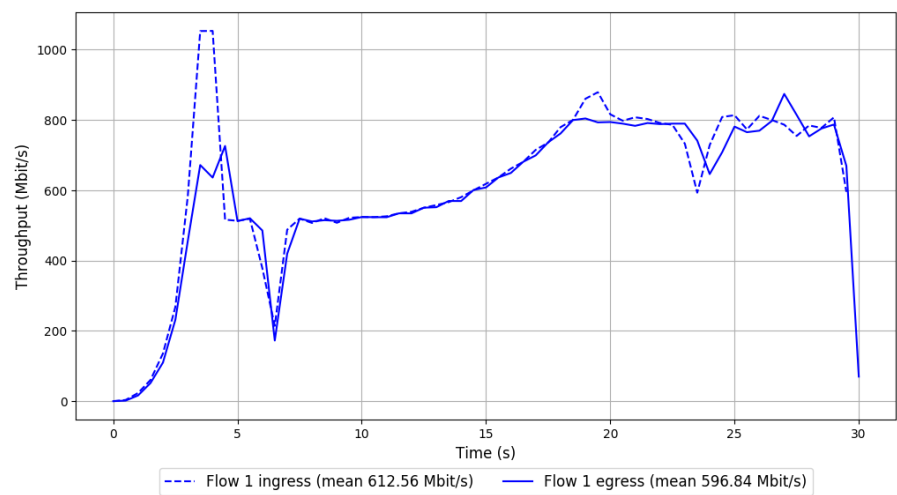
-- Flow 1:

Average throughput: 596.84 Mbit/s

95th percentile per-packet one-way delay: 229.849 ms

Loss rate: 2.48%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-10-11 08:11:05

End at: 2017-10-11 08:11:35

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 529.34 Mbit/s

95th percentile per-packet one-way delay: 238.069 ms

Loss rate: 3.26%

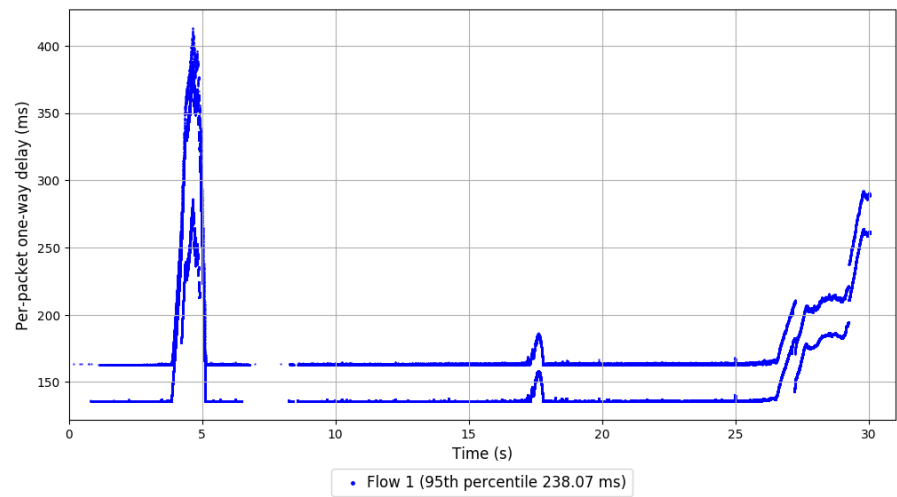
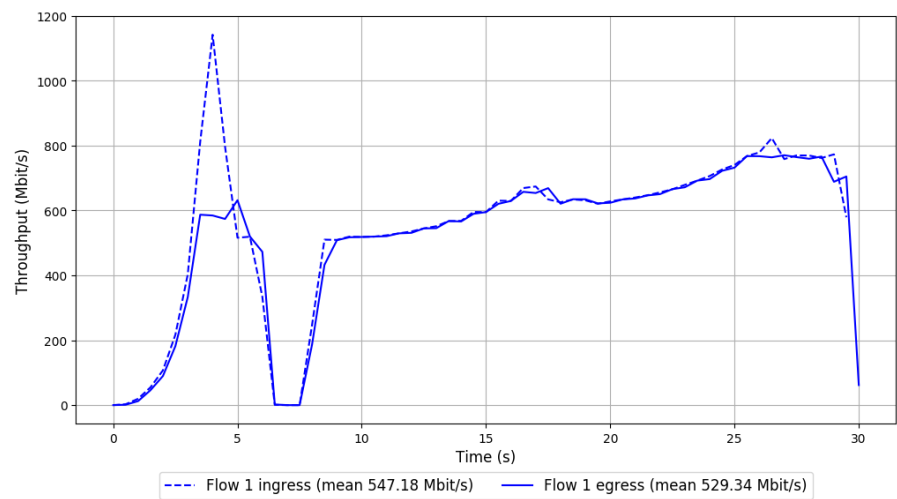
-- Flow 1:

Average throughput: 529.34 Mbit/s

95th percentile per-packet one-way delay: 238.069 ms

Loss rate: 3.26%

Run 10: Report of PCC — Data Link

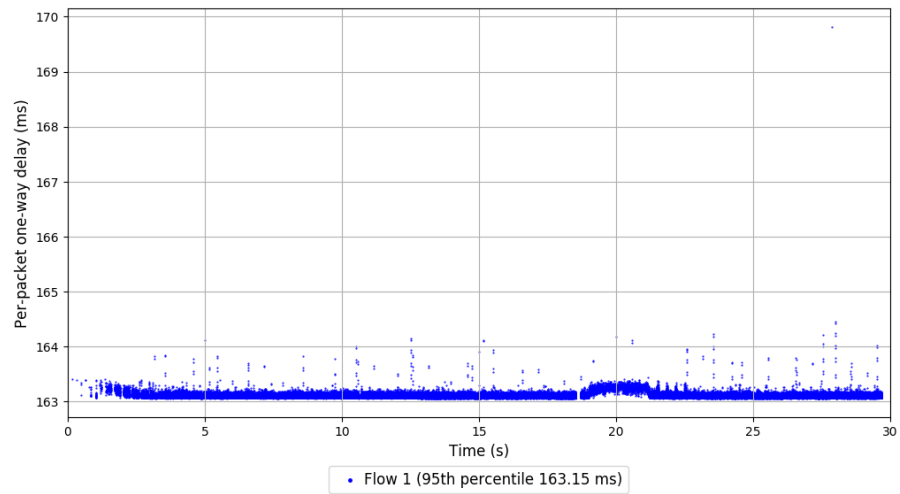
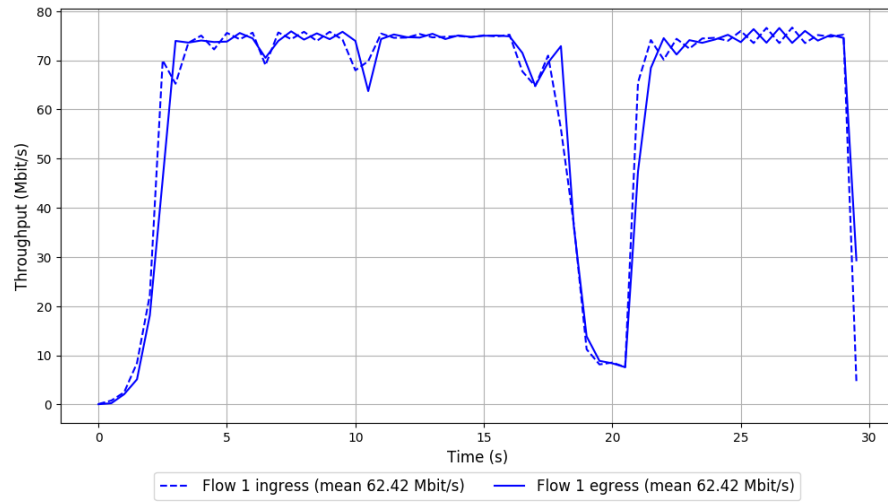


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-10-11 06:21:38
End at: 2017-10-11 06:22:08

# Below is generated by plot.py at 2017-10-11 09:11:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.42 Mbit/s
95th percentile per-packet one-way delay: 163.147 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 62.42 Mbit/s
95th percentile per-packet one-way delay: 163.147 ms
Loss rate: 0.01%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-10-11 06:33:41

End at: 2017-10-11 06:34:11

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.89 Mbit/s

95th percentile per-packet one-way delay: 136.331 ms

Loss rate: 0.00%

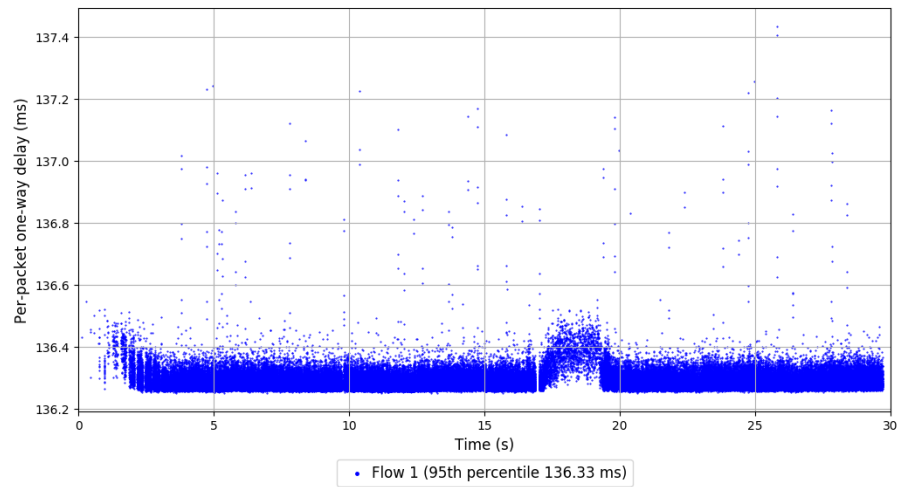
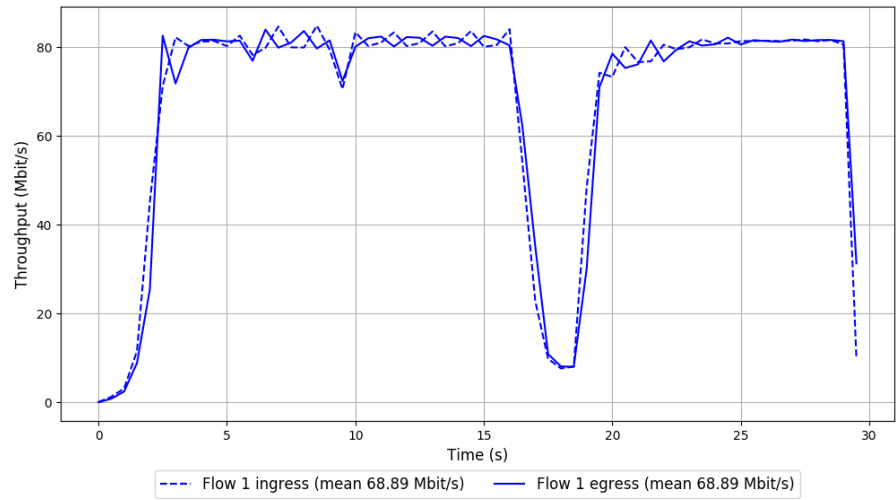
-- Flow 1:

Average throughput: 68.89 Mbit/s

95th percentile per-packet one-way delay: 136.331 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-10-11 06:45:39

End at: 2017-10-11 06:46:09

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.47 Mbit/s

95th percentile per-packet one-way delay: 136.179 ms

Loss rate: 0.00%

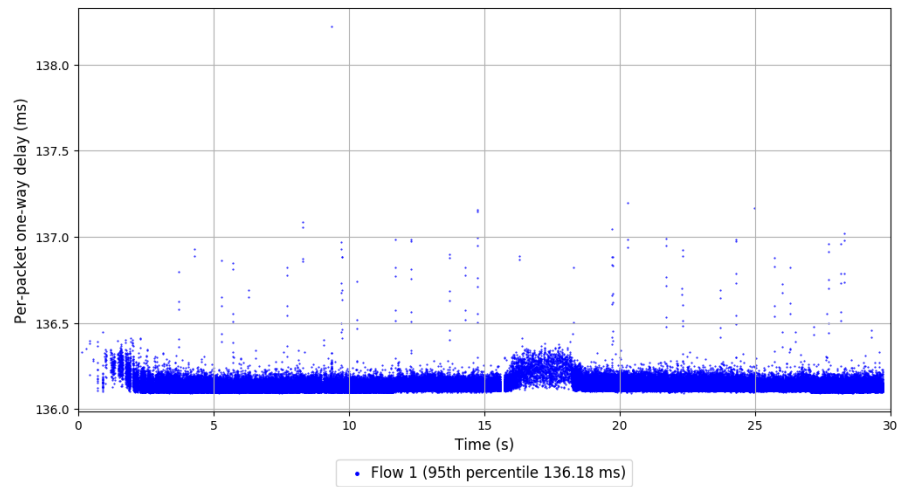
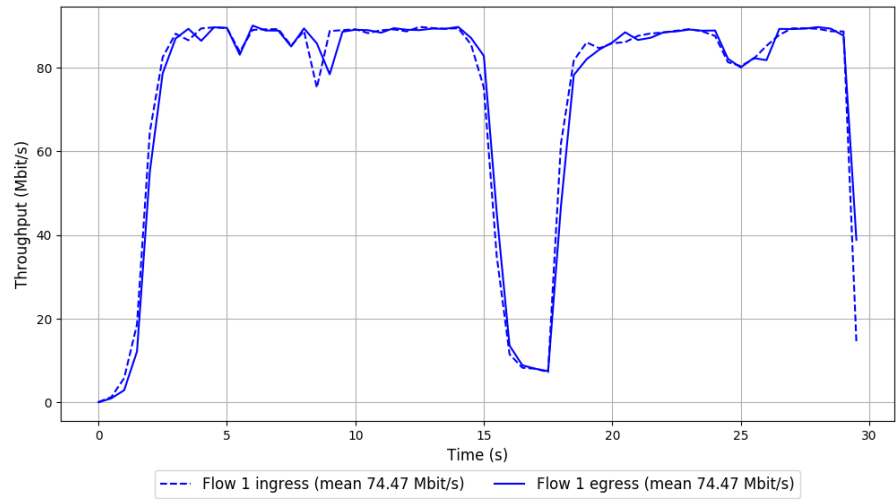
-- Flow 1:

Average throughput: 74.47 Mbit/s

95th percentile per-packet one-way delay: 136.179 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-10-11 06:57:39

End at: 2017-10-11 06:58:09

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.97 Mbit/s

95th percentile per-packet one-way delay: 162.094 ms

Loss rate: 0.00%

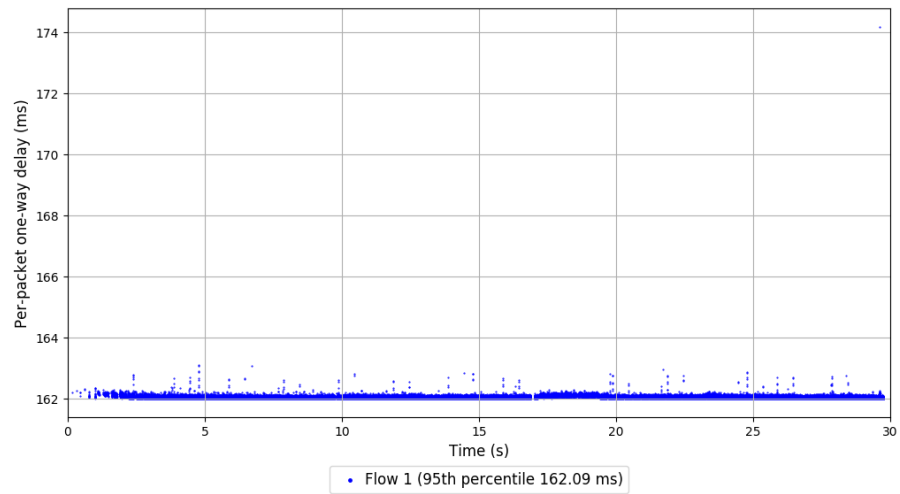
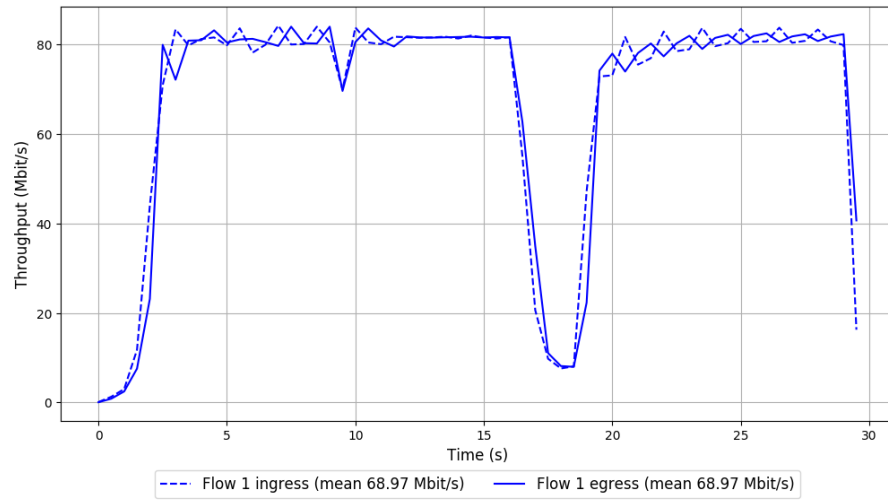
-- Flow 1:

Average throughput: 68.97 Mbit/s

95th percentile per-packet one-way delay: 162.094 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-10-11 07:09:35

End at: 2017-10-11 07:10:05

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.25 Mbit/s

95th percentile per-packet one-way delay: 137.513 ms

Loss rate: 0.00%

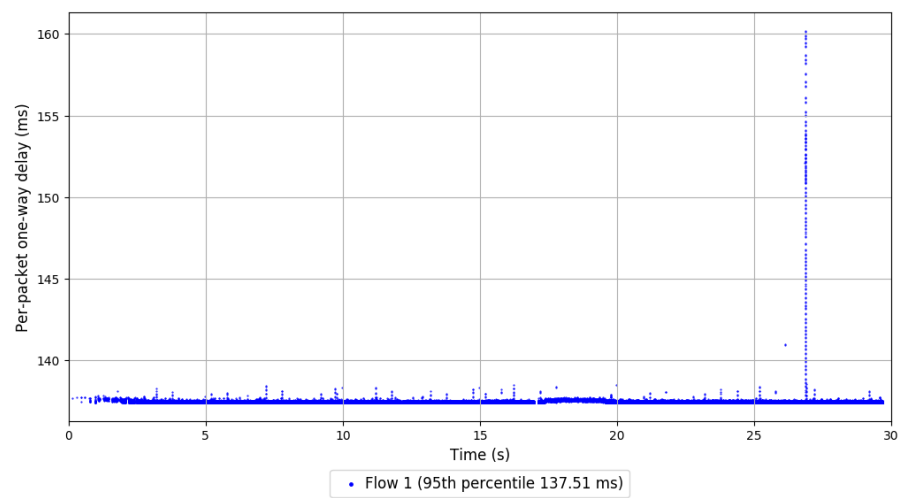
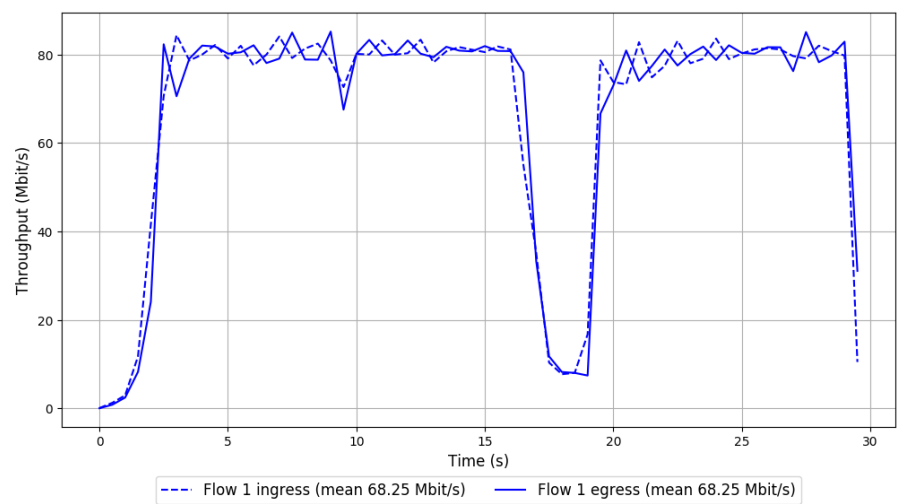
-- Flow 1:

Average throughput: 68.25 Mbit/s

95th percentile per-packet one-way delay: 137.513 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-10-11 07:21:06

End at: 2017-10-11 07:21:36

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.97 Mbit/s

95th percentile per-packet one-way delay: 136.551 ms

Loss rate: 0.00%

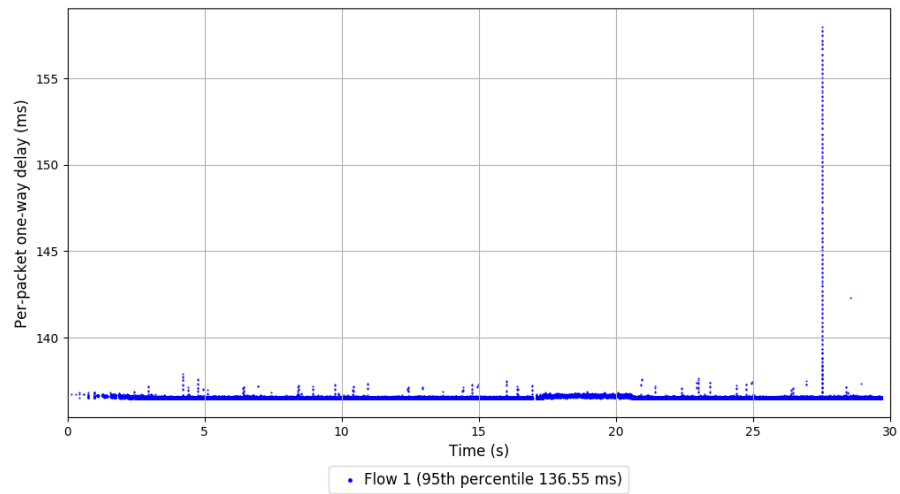
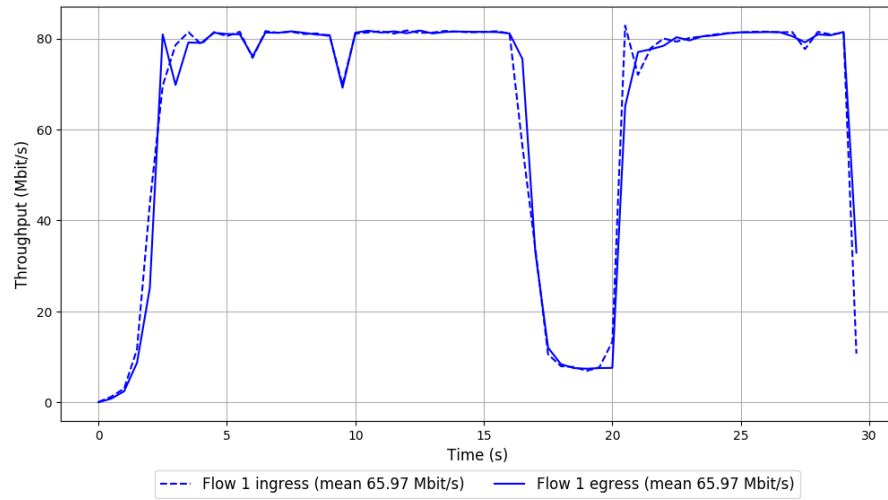
-- Flow 1:

Average throughput: 65.97 Mbit/s

95th percentile per-packet one-way delay: 136.551 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-10-11 07:33:16

End at: 2017-10-11 07:33:46

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.08 Mbit/s

95th percentile per-packet one-way delay: 138.118 ms

Loss rate: 0.00%

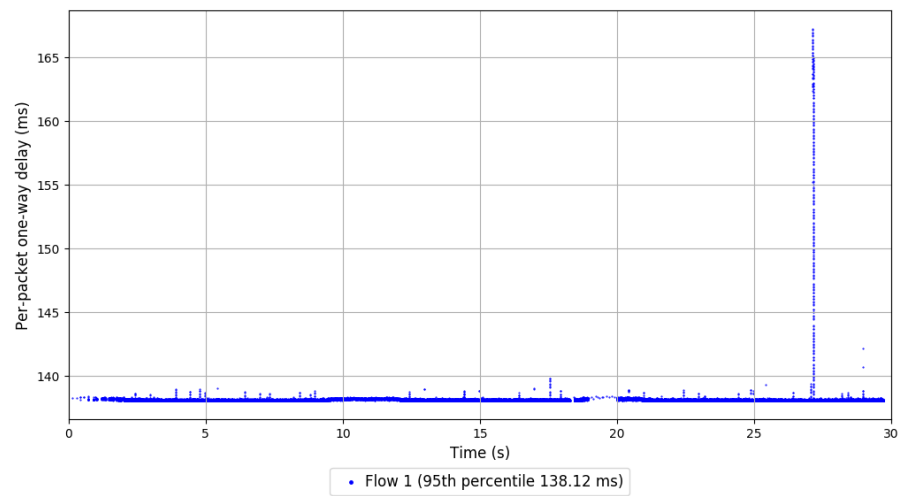
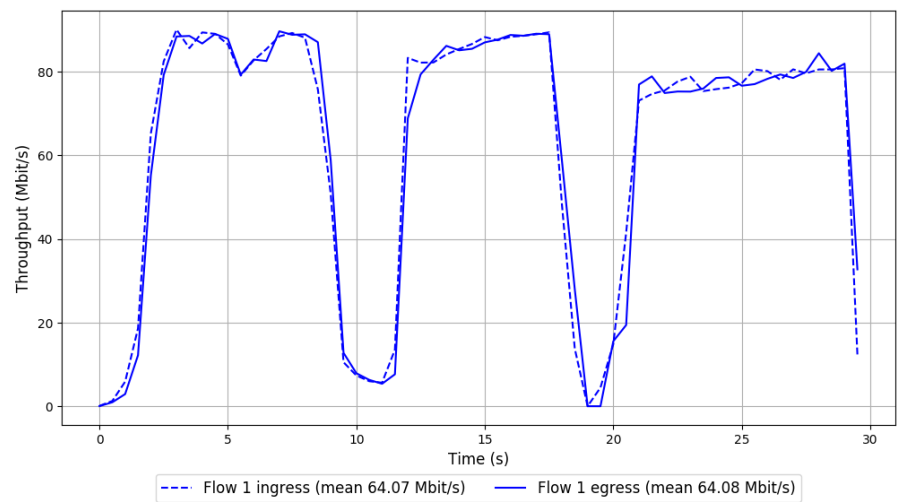
-- Flow 1:

Average throughput: 64.08 Mbit/s

95th percentile per-packet one-way delay: 138.118 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-10-11 07:45:06

End at: 2017-10-11 07:45:36

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.37 Mbit/s

95th percentile per-packet one-way delay: 137.565 ms

Loss rate: 0.00%

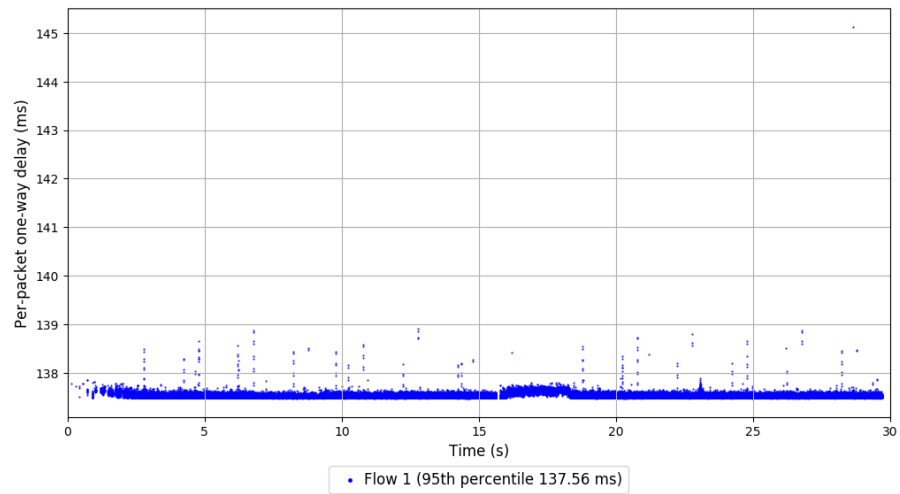
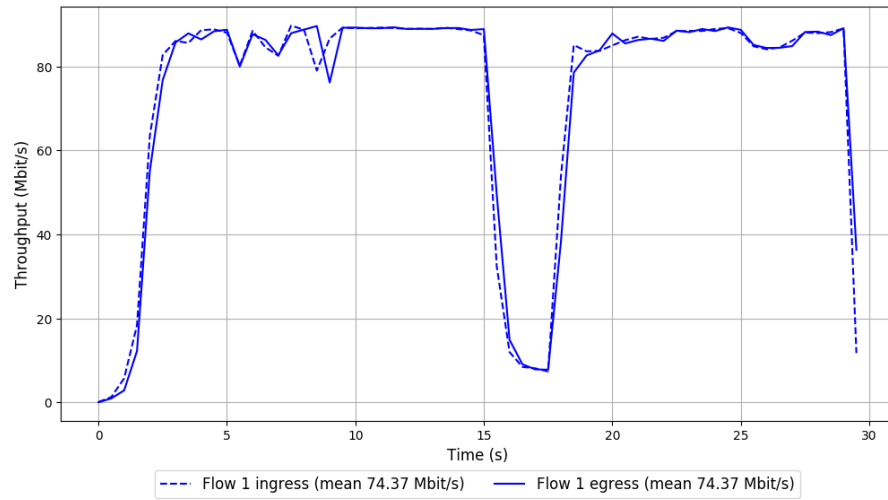
-- Flow 1:

Average throughput: 74.37 Mbit/s

95th percentile per-packet one-way delay: 137.565 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-10-11 07:56:41

End at: 2017-10-11 07:57:11

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.85 Mbit/s

95th percentile per-packet one-way delay: 136.386 ms

Loss rate: 0.00%

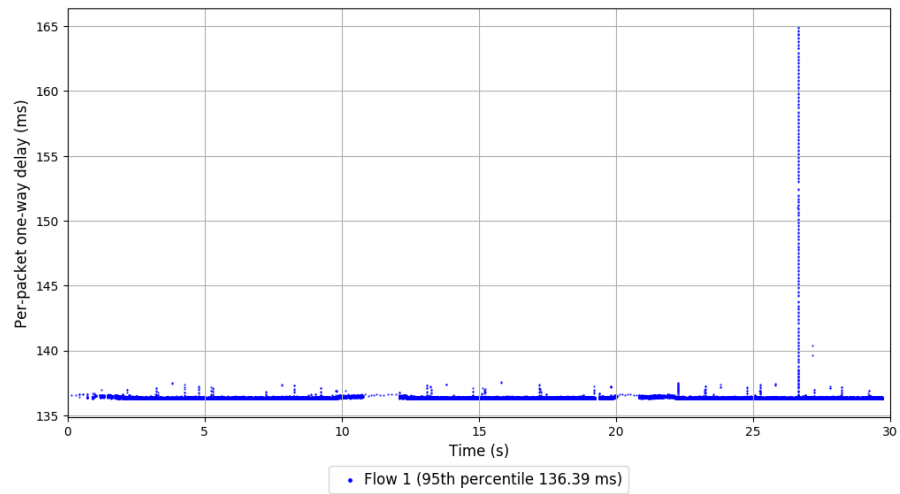
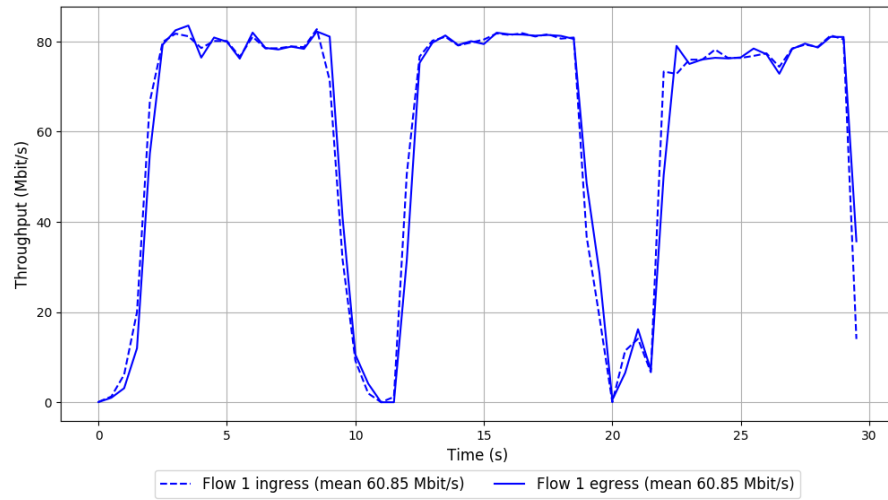
-- Flow 1:

Average throughput: 60.85 Mbit/s

95th percentile per-packet one-way delay: 136.386 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-10-11 08:08:43

End at: 2017-10-11 08:09:13

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.58 Mbit/s

95th percentile per-packet one-way delay: 136.325 ms

Loss rate: 0.00%

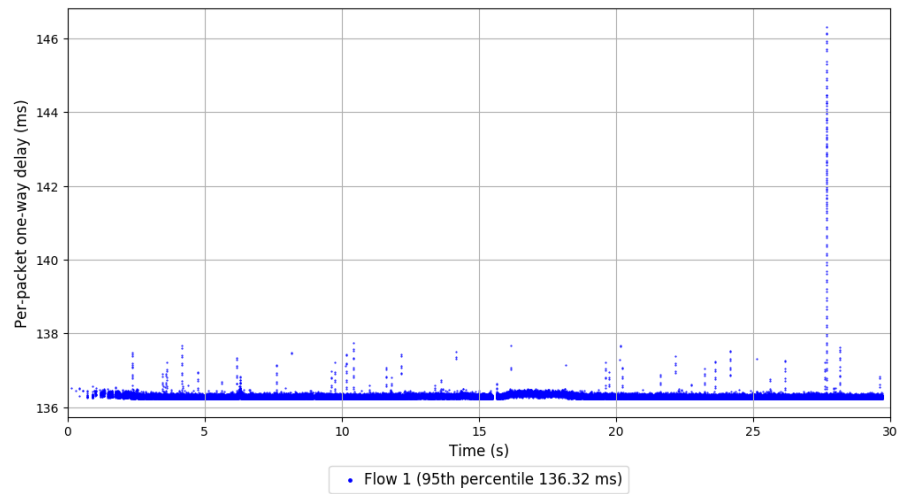
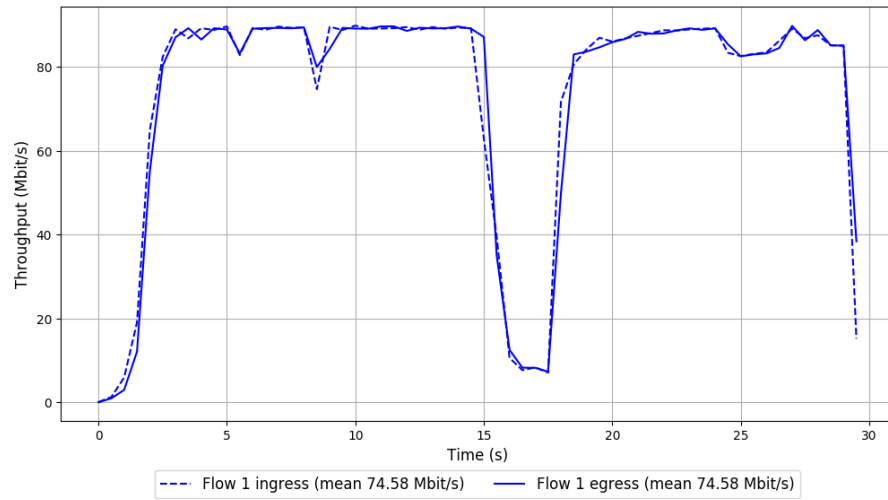
-- Flow 1:

Average throughput: 74.58 Mbit/s

95th percentile per-packet one-way delay: 136.325 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

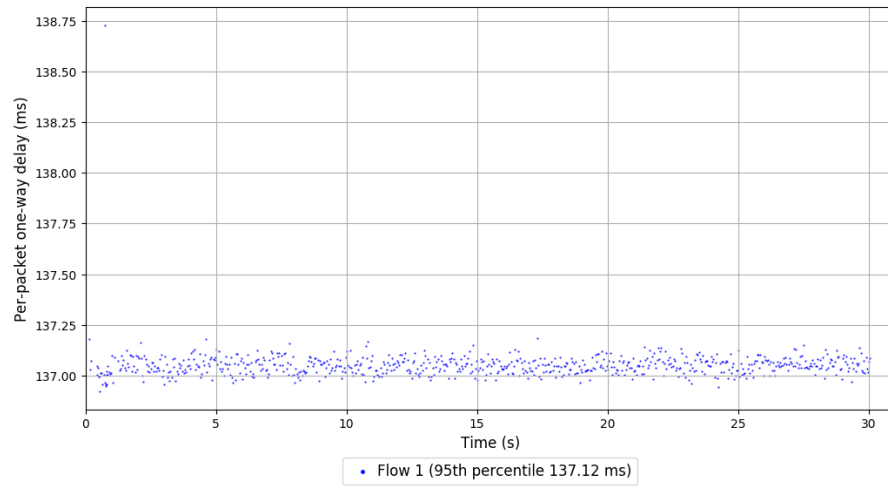
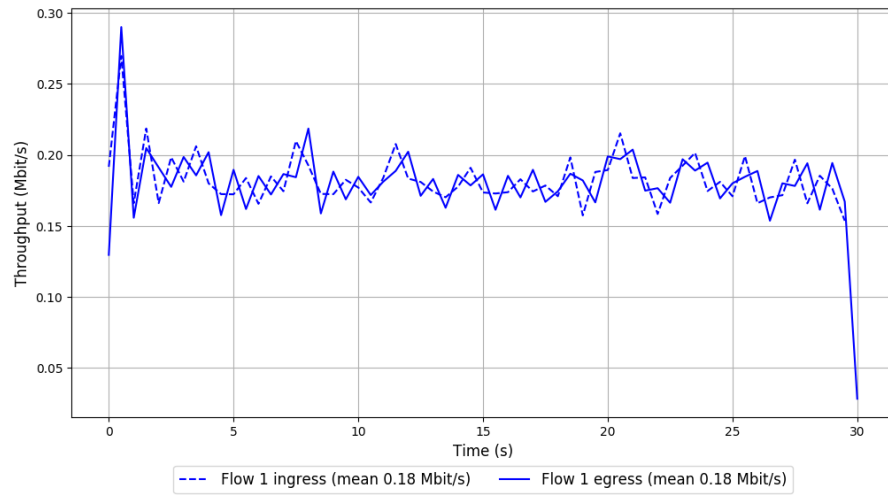


```
Run 1: Statistics of SCReAM

Start at: 2017-10-11 06:16:56
End at: 2017-10-11 06:17:26

# Below is generated by plot.py at 2017-10-11 09:11:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 137.119 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 137.119 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2017-10-11 06:28:38

End at: 2017-10-11 06:29:08

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 162.420 ms

Loss rate: 0.00%

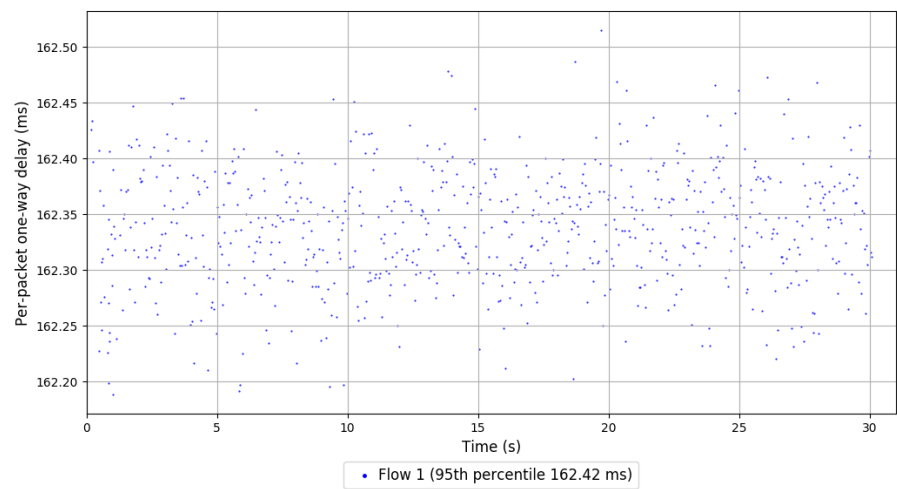
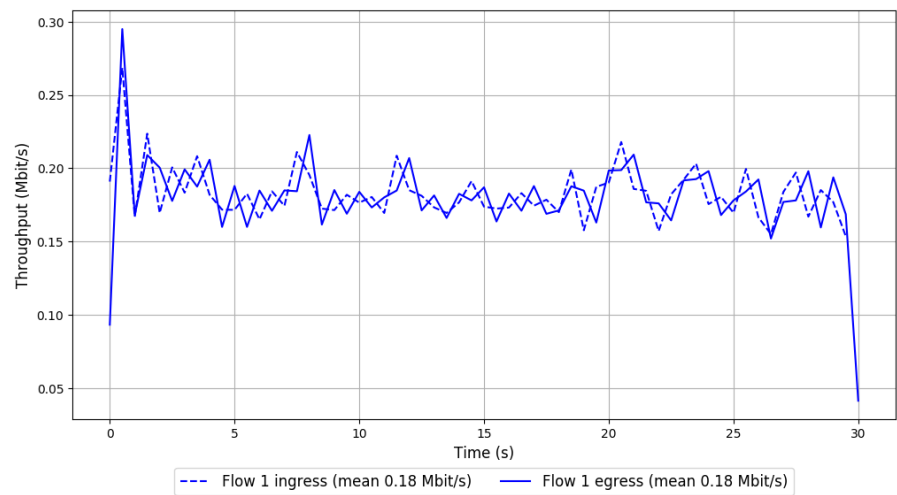
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 162.420 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-10-11 06:40:35

End at: 2017-10-11 06:41:05

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.558 ms

Loss rate: 0.00%

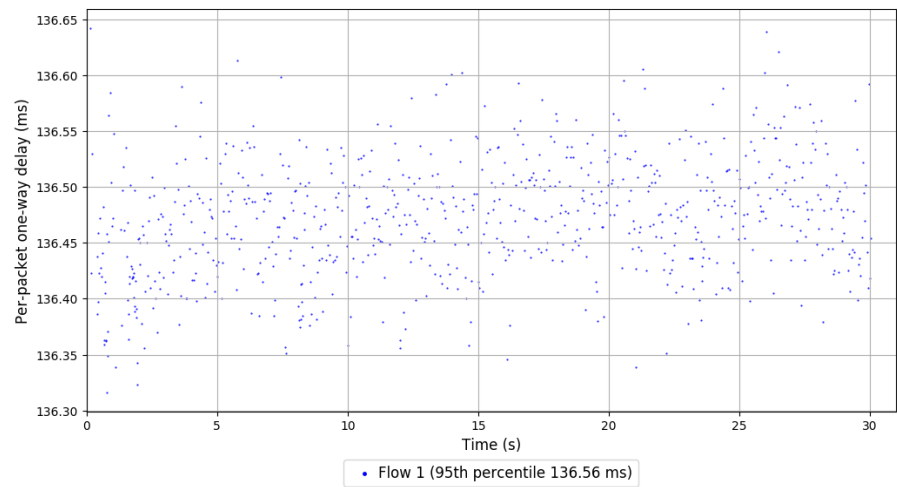
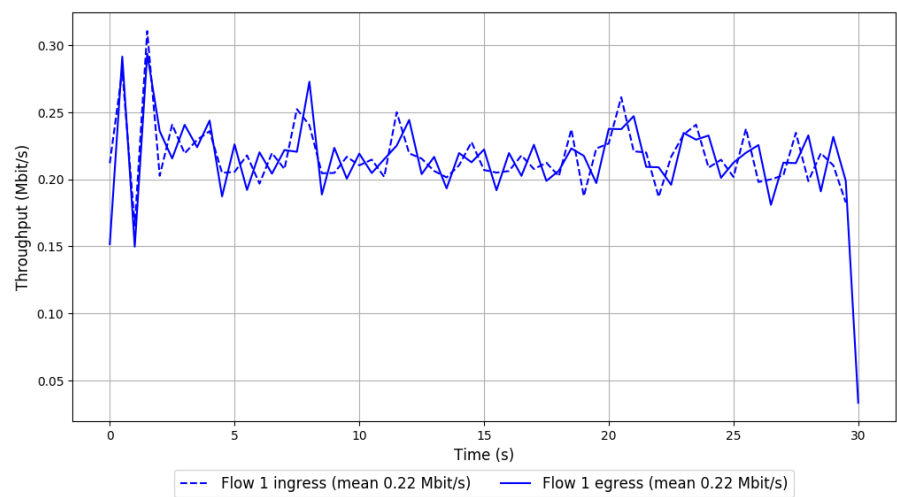
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.558 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-10-11 06:52:36

End at: 2017-10-11 06:53:06

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.264 ms

Loss rate: 0.00%

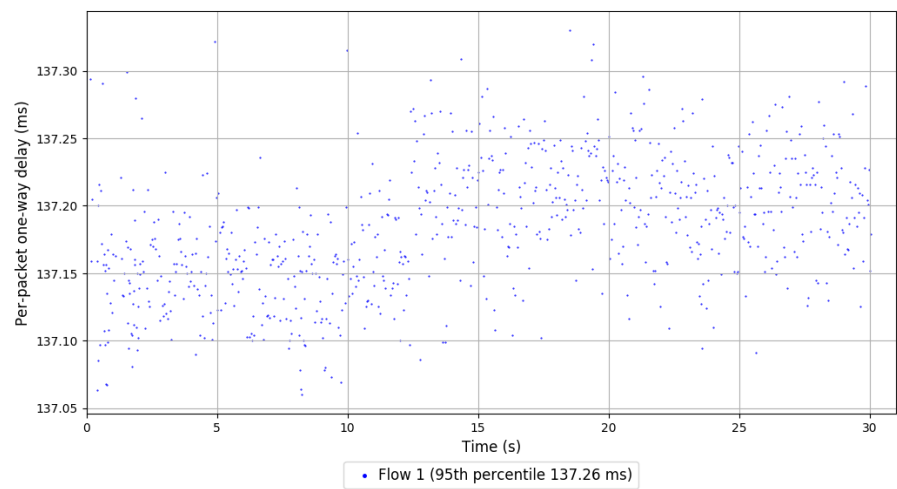
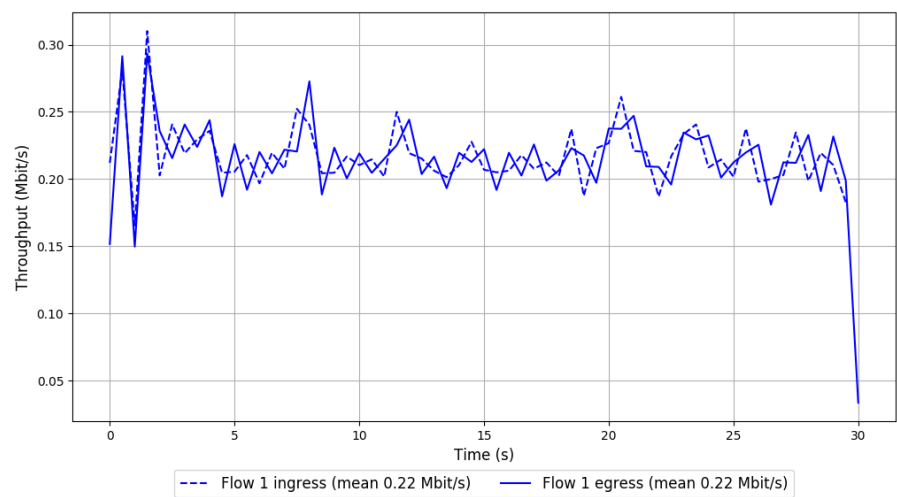
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.264 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-10-11 07:04:30

End at: 2017-10-11 07:05:00

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 137.704 ms

Loss rate: 0.00%

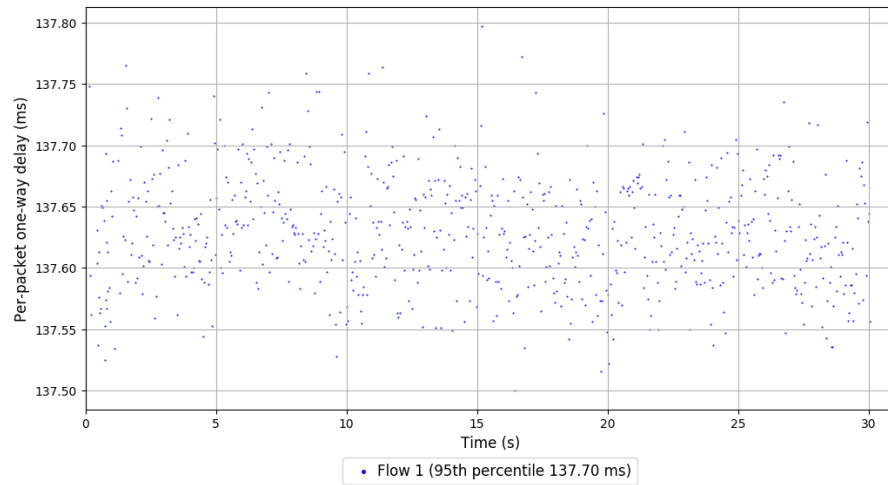
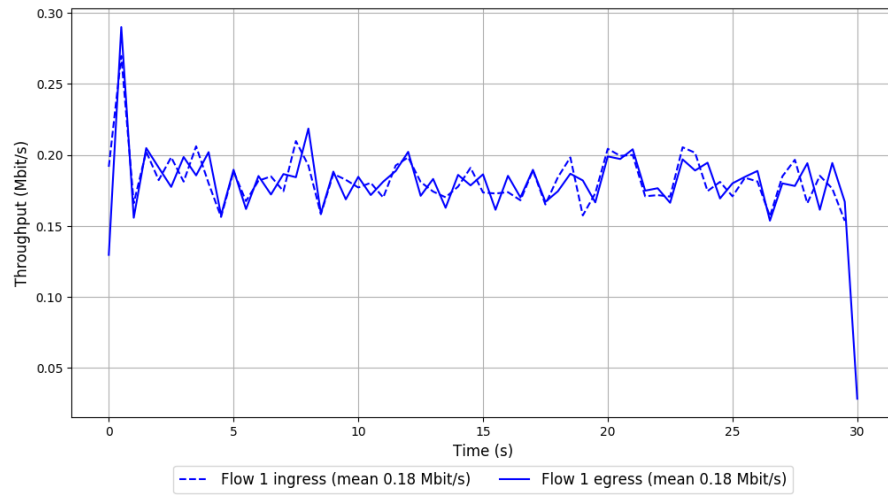
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 137.704 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-10-11 07:16:26

End at: 2017-10-11 07:16:56

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 163.497 ms

Loss rate: 0.00%

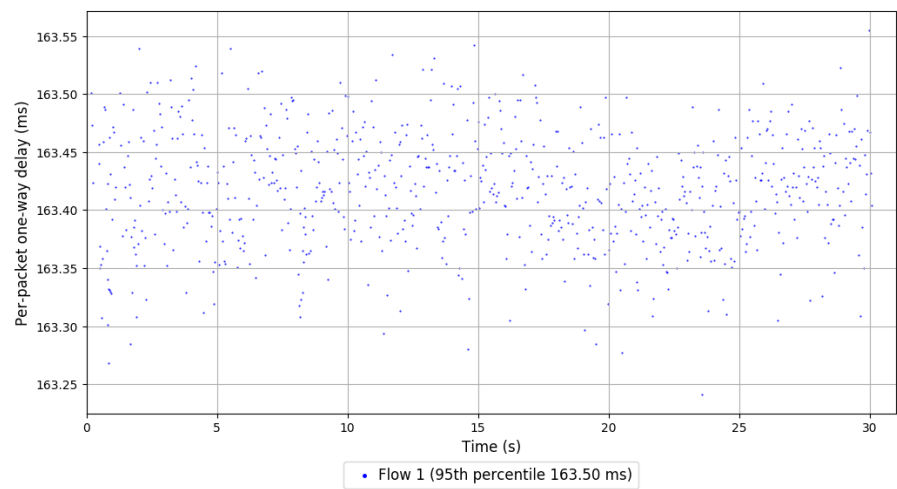
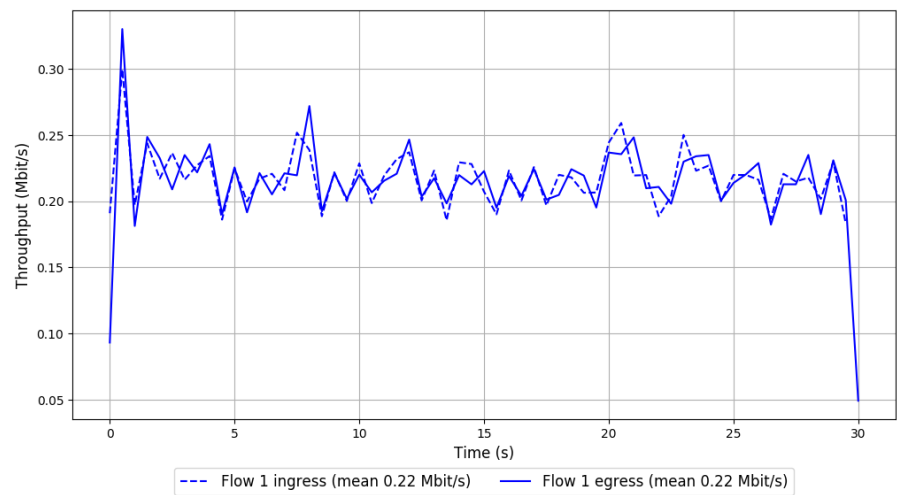
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 163.497 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-10-11 07:28:09

End at: 2017-10-11 07:28:39

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.361 ms

Loss rate: 0.00%

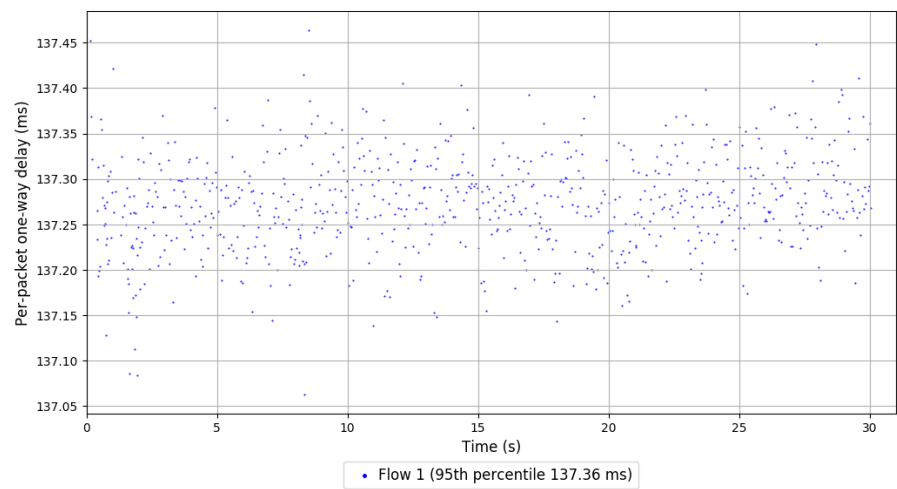
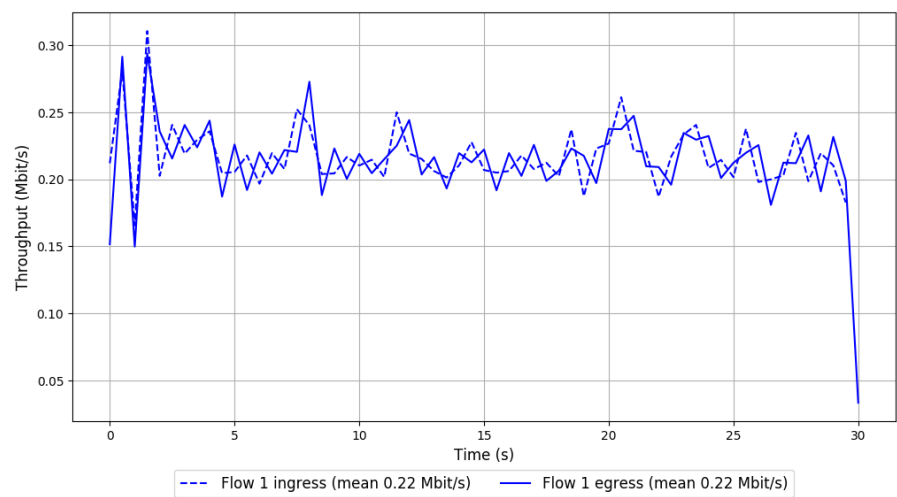
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.361 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-10-11 07:40:04

End at: 2017-10-11 07:40:34

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.786 ms

Loss rate: 0.00%

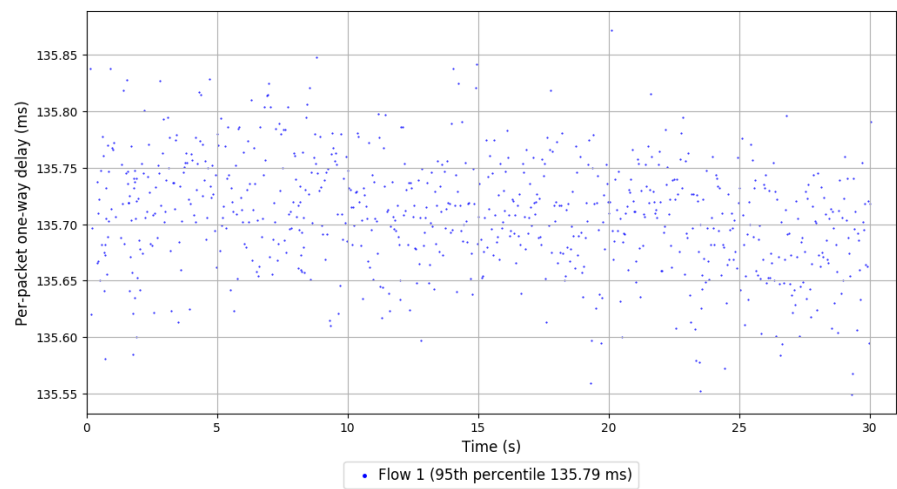
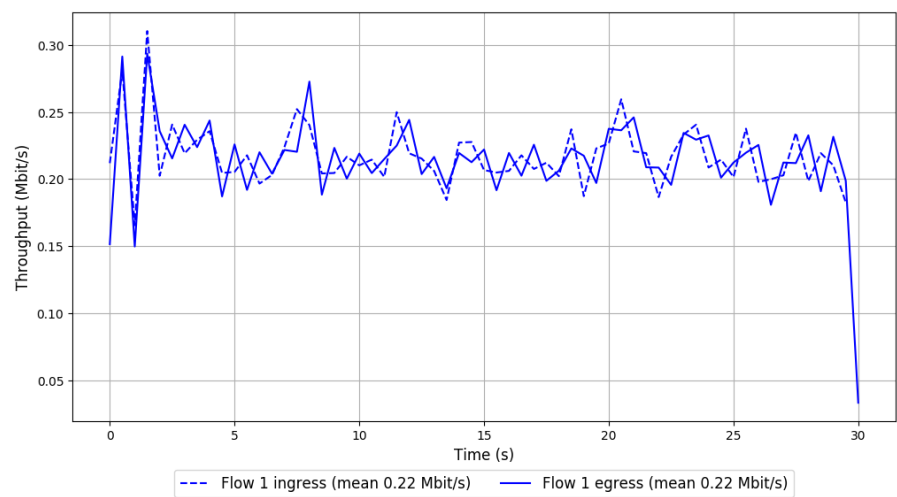
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.786 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-10-11 07:52:01

End at: 2017-10-11 07:52:31

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 137.219 ms

Loss rate: 0.00%

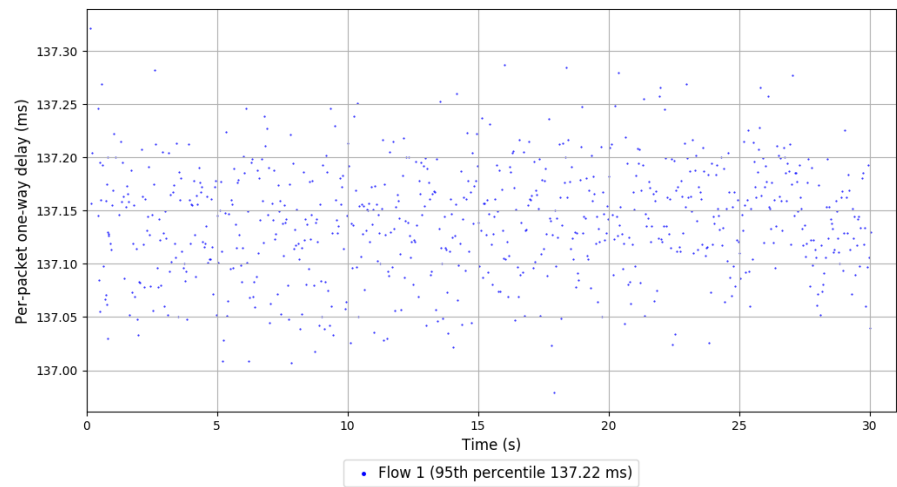
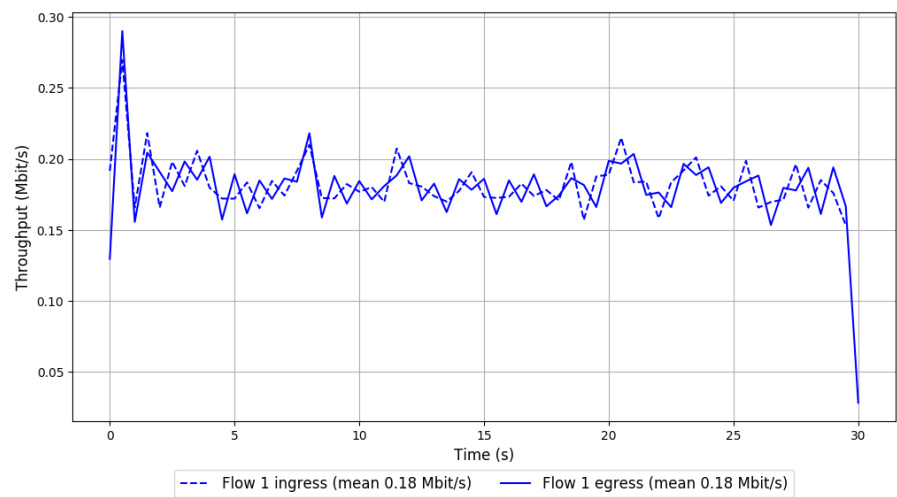
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 137.219 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-10-11 08:03:38

End at: 2017-10-11 08:04:08

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

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

Loss rate: 0.00%

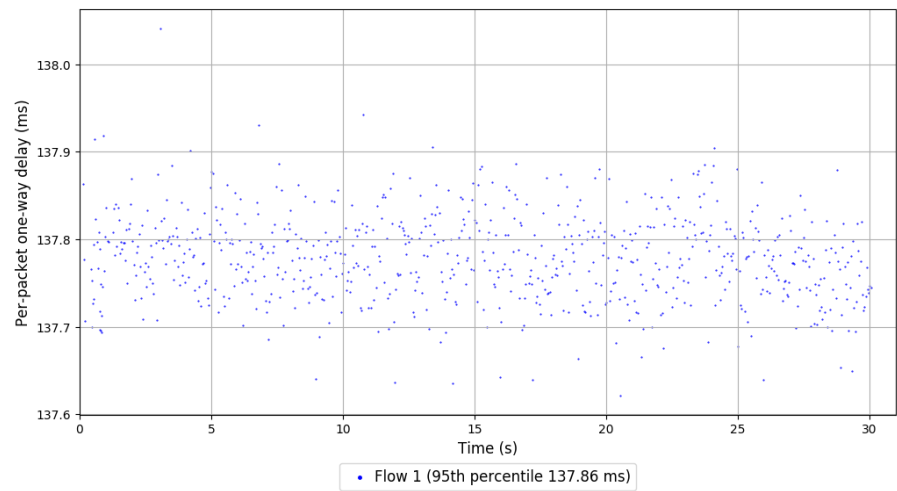
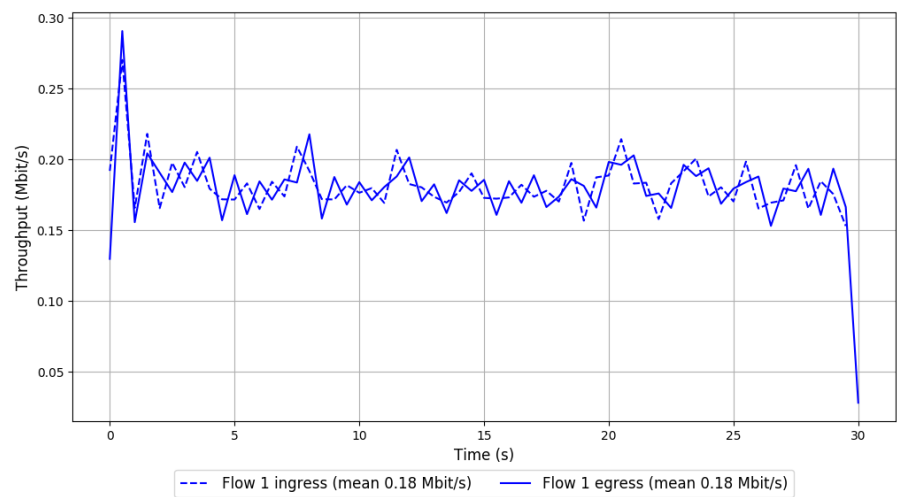
-- Flow 1:

Average throughput: 0.18 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of SCRaM — Data Link

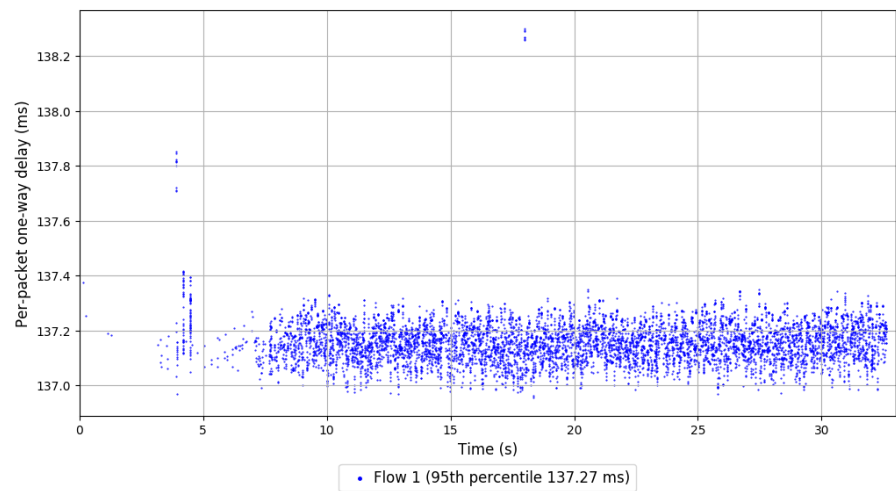
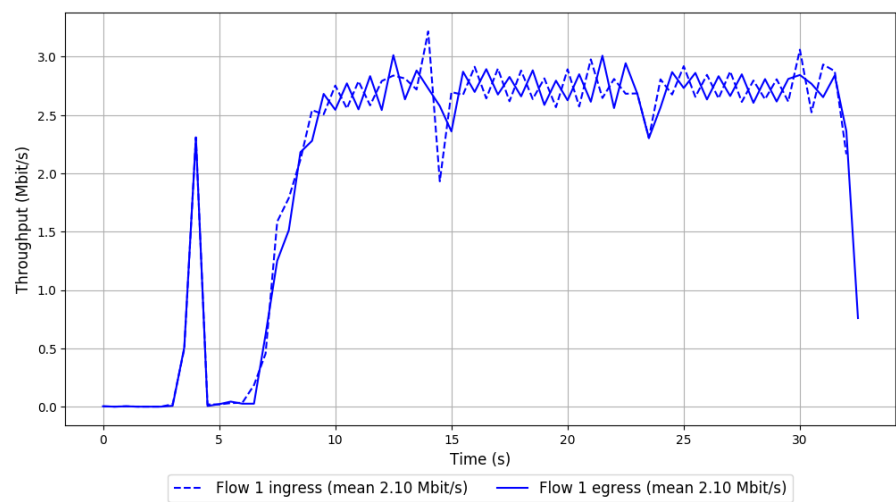


```
Run 1: Statistics of WebRTC media

Start at: 2017-10-11 06:20:09
End at: 2017-10-11 06:20:39

# Below is generated by plot.py at 2017-10-11 09:11:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 137.268 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 137.268 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-10-11 06:32:12

End at: 2017-10-11 06:32:42

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

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

Loss rate: 0.00%

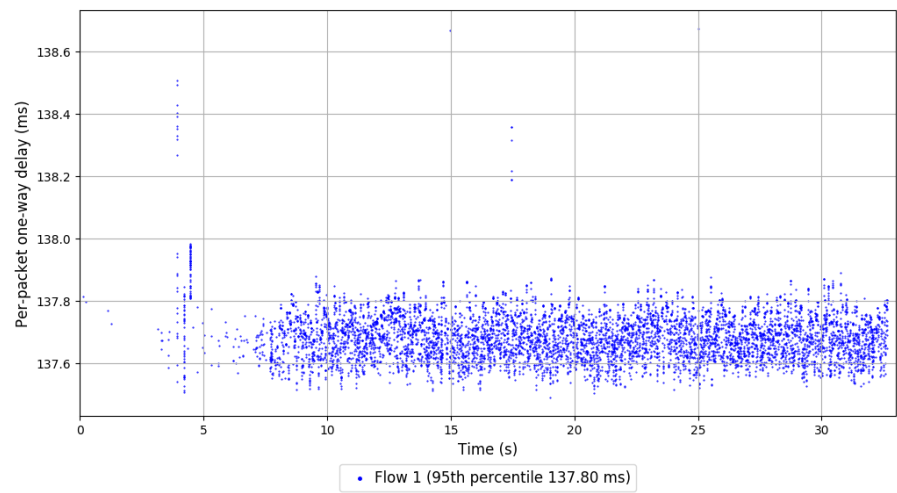
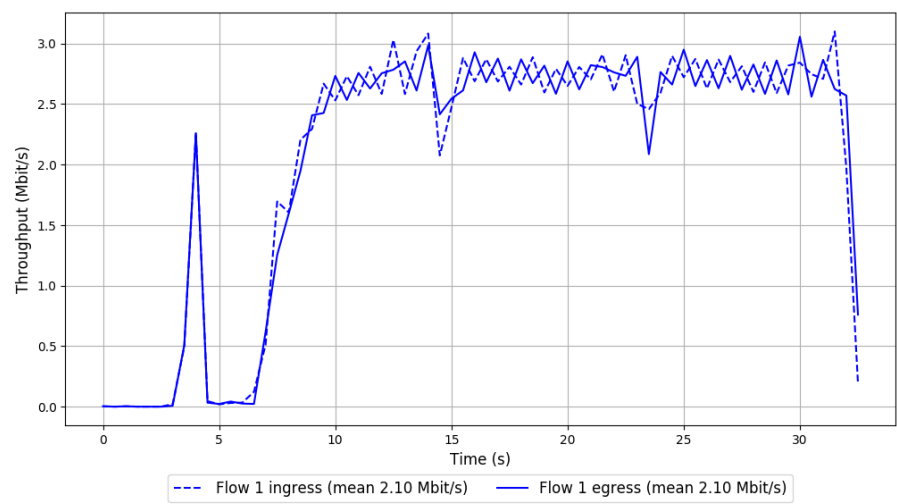
-- Flow 1:

Average throughput: 2.10 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-10-11 06:44:10

End at: 2017-10-11 06:44:40

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 137.913 ms

Loss rate: 0.00%

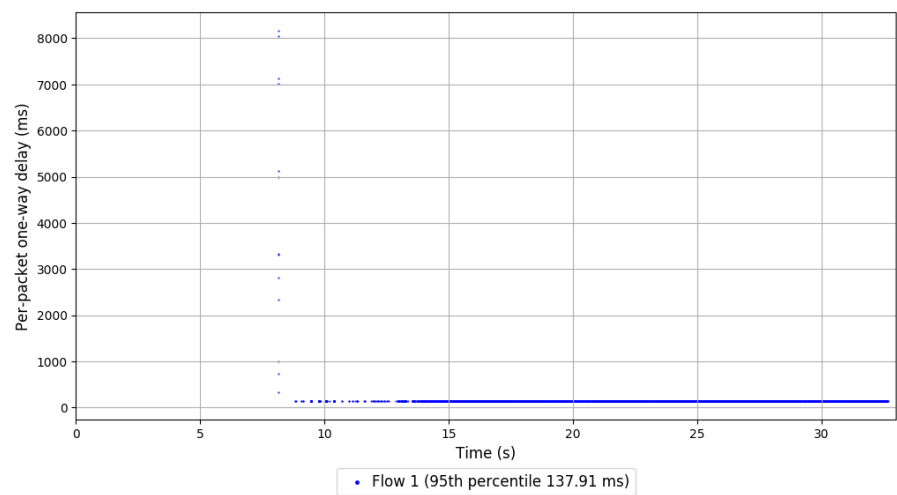
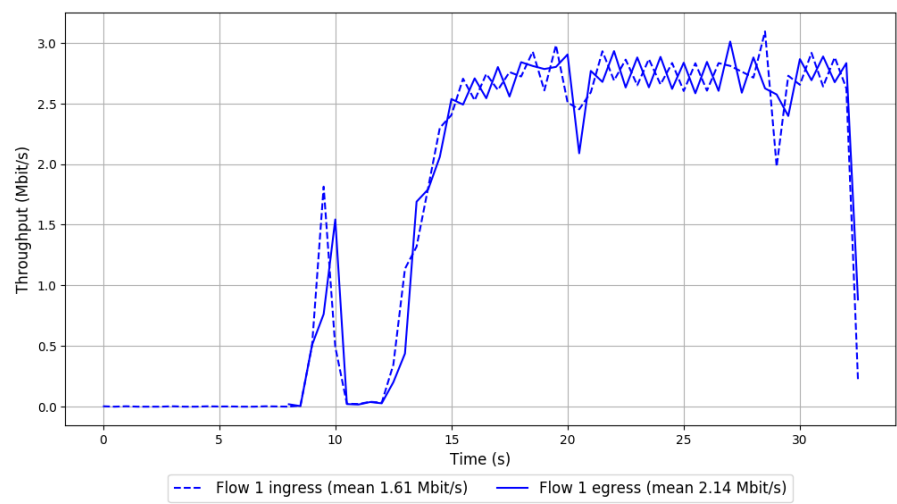
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 137.913 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-10-11 06:56:10

End at: 2017-10-11 06:56:40

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 163.124 ms

Loss rate: 0.00%

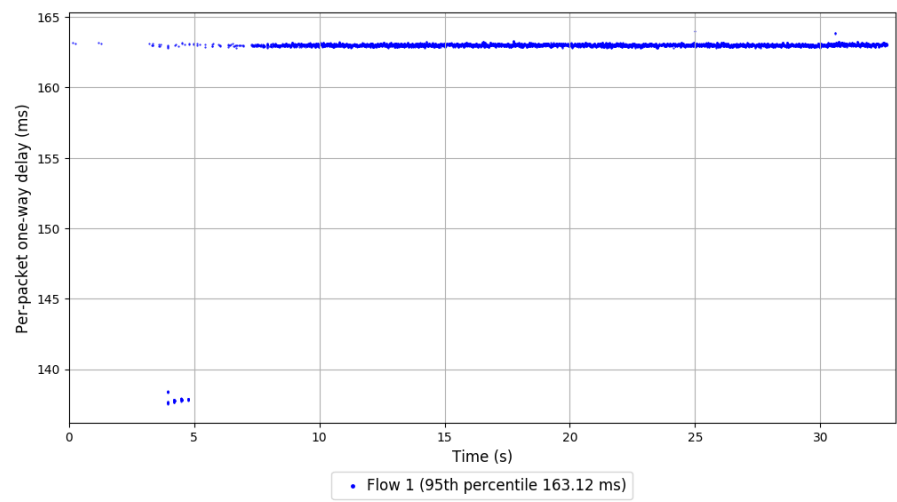
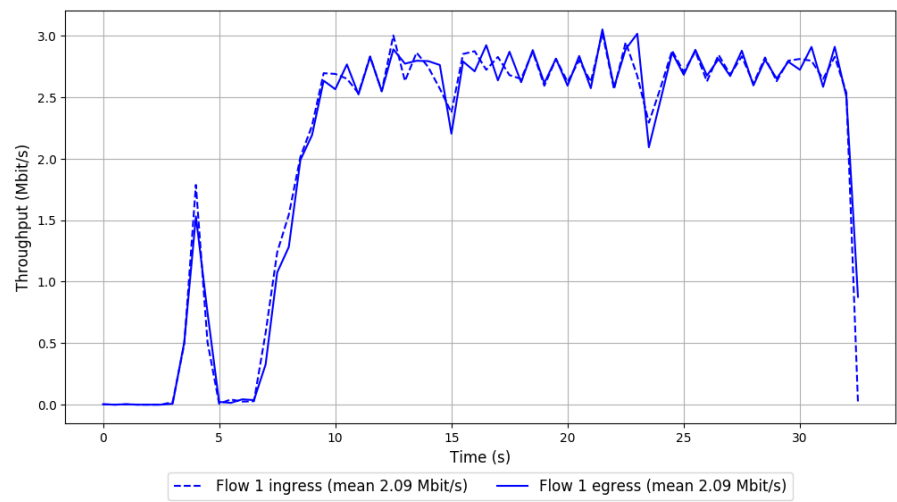
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 163.124 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-10-11 07:08:06

End at: 2017-10-11 07:08:37

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 137.077 ms

Loss rate: 0.00%

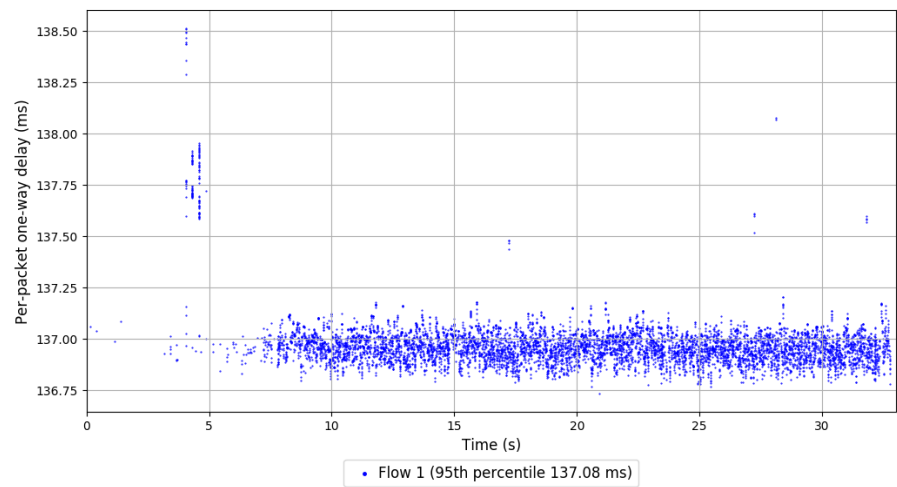
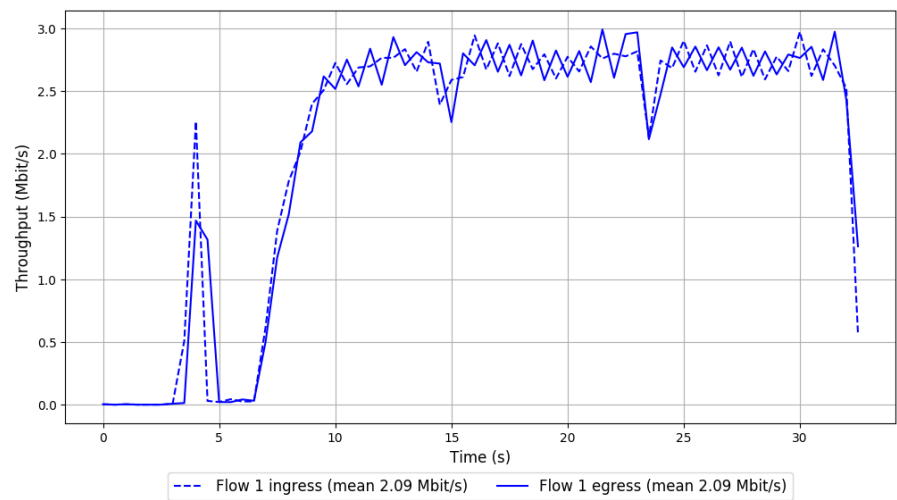
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 137.077 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-10-11 07:19:37

End at: 2017-10-11 07:20:07

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 137.197 ms

Loss rate: 0.00%

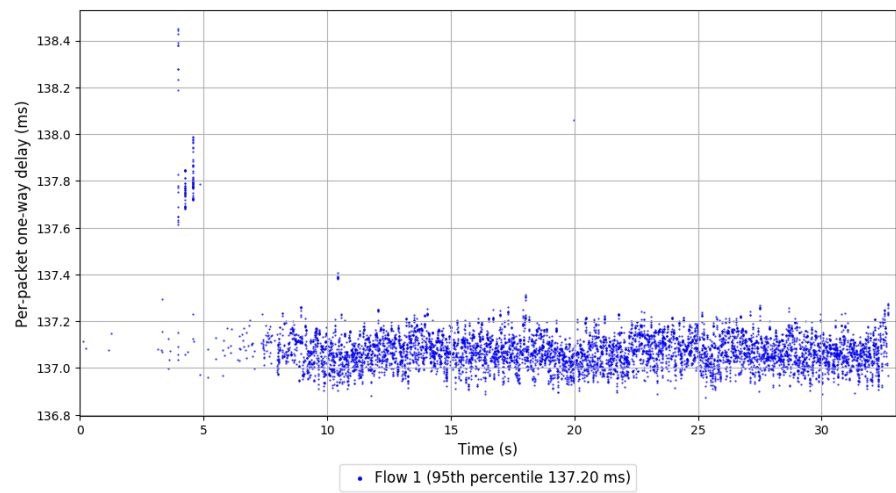
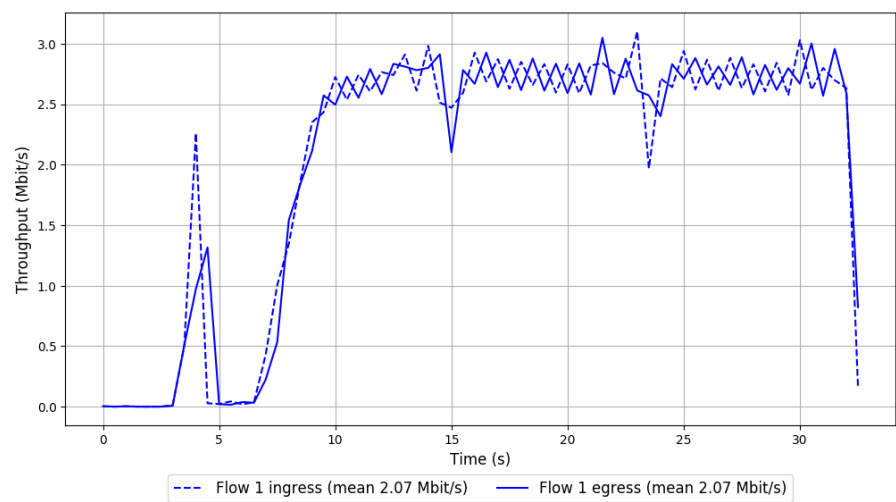
-- Flow 1:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 137.197 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-10-11 07:31:46

End at: 2017-10-11 07:32:16

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 138.004 ms

Loss rate: 0.00%

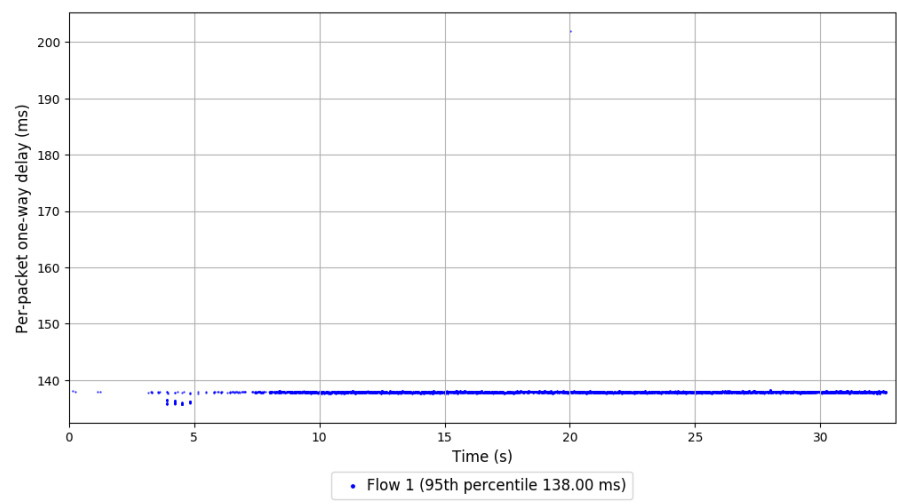
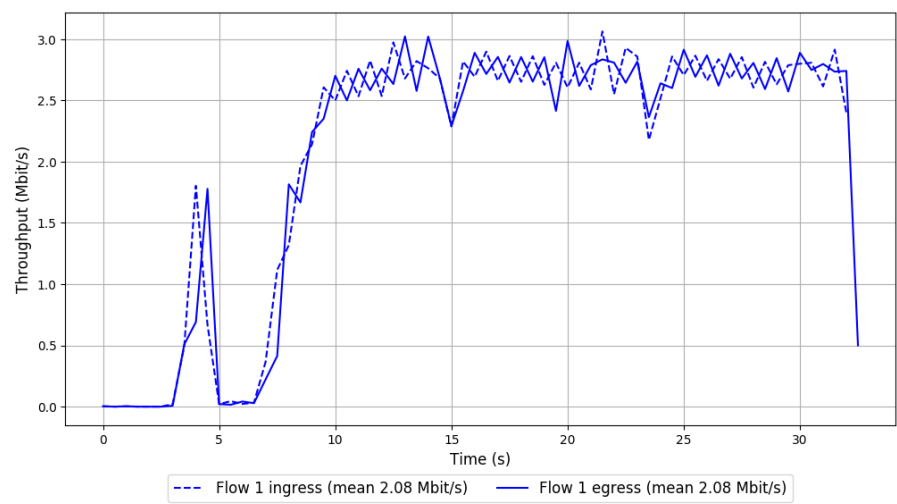
-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 138.004 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

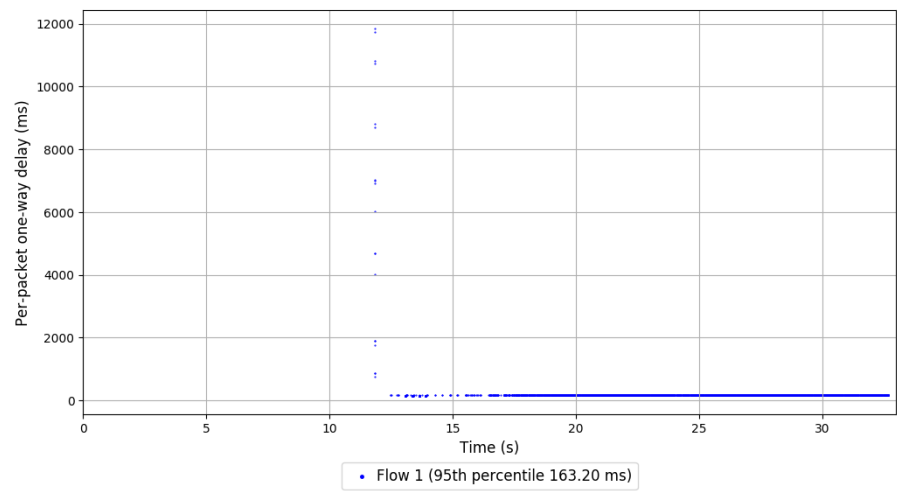
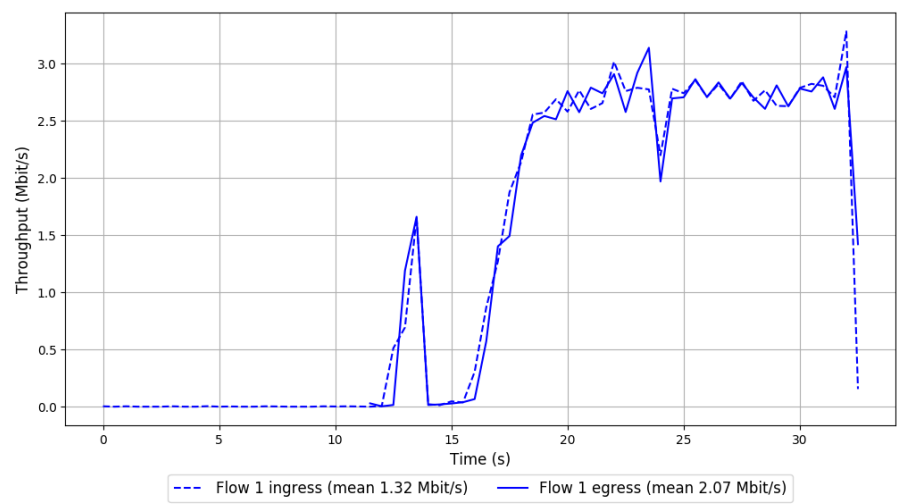


Run 8: Statistics of WebRTC media

Start at: 2017-10-11 07:43:36

End at: 2017-10-11 07:44:06

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-10-11 07:55:14

End at: 2017-10-11 07:55:44

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.591 ms

Loss rate: 0.00%

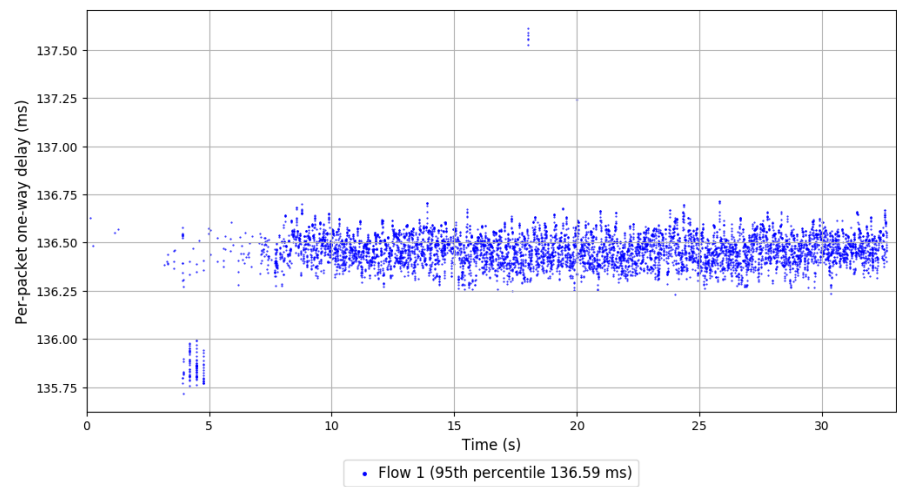
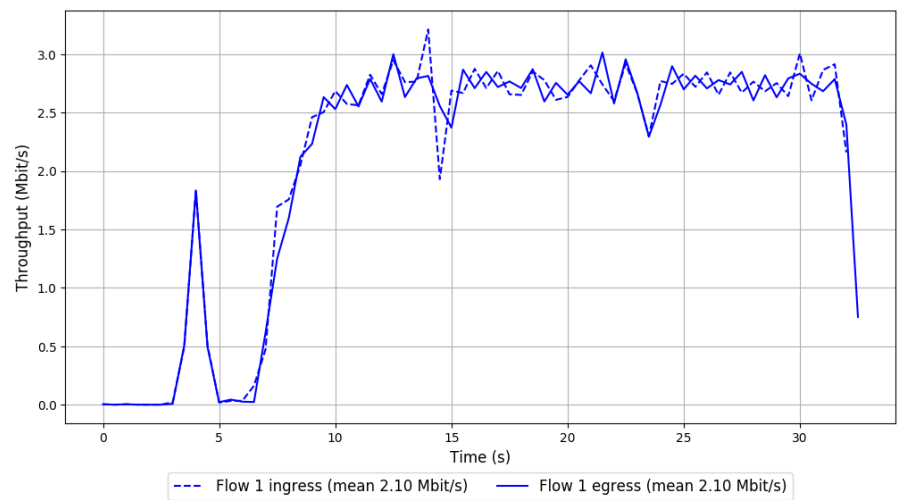
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.591 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link

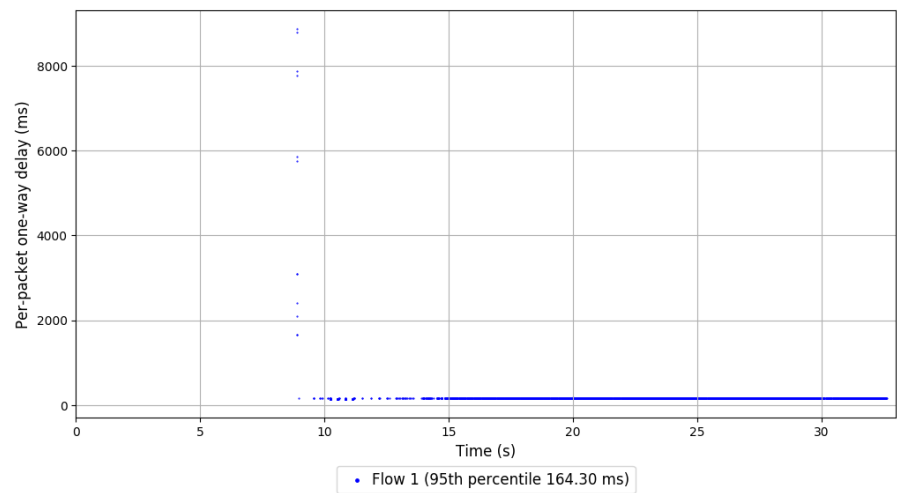
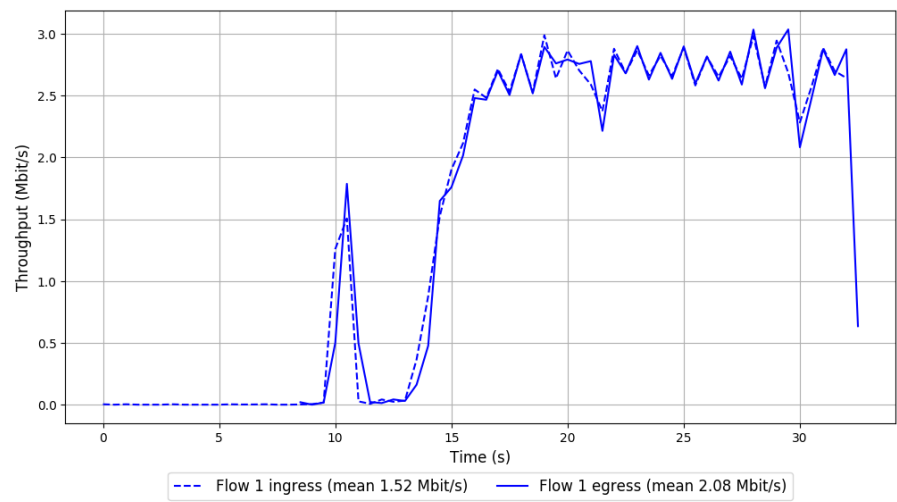


Run 10: Statistics of WebRTC media

Start at: 2017-10-11 08:07:14

End at: 2017-10-11 08:07:44

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-10-11 06:23:24

End at: 2017-10-11 06:23:54

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 137.425 ms

Loss rate: 0.00%

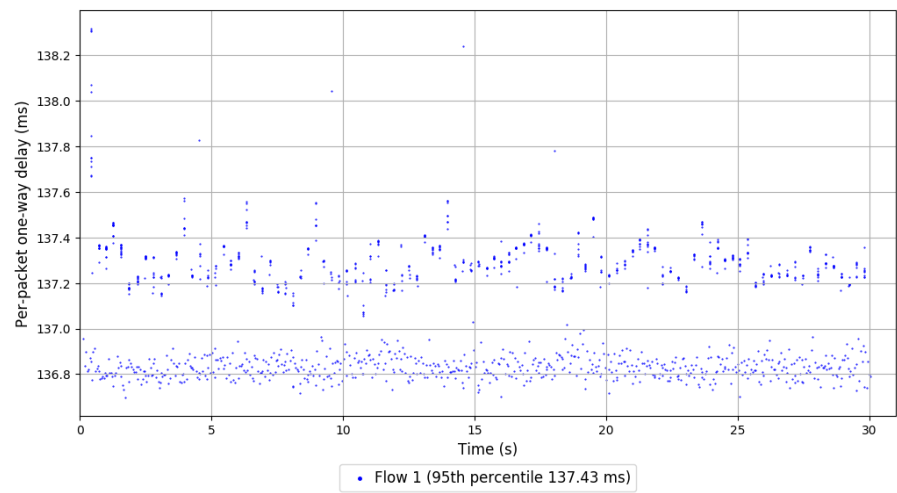
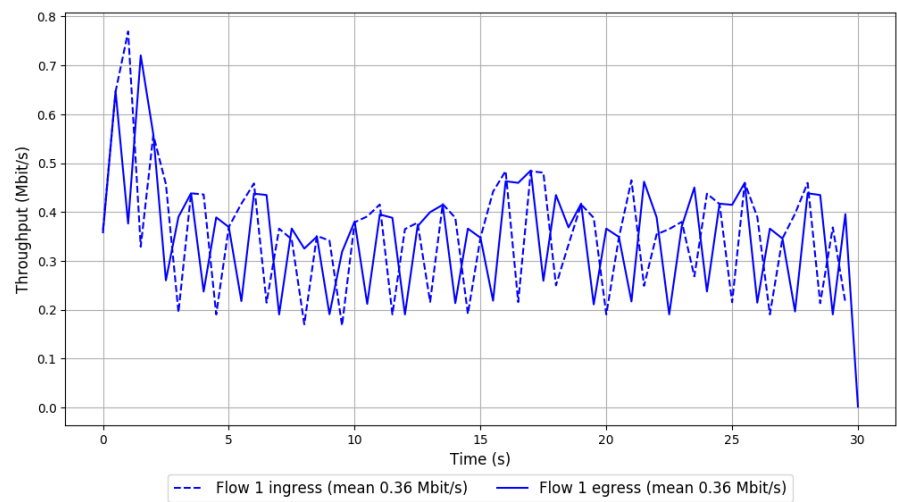
-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 137.425 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-10-11 06:35:30

End at: 2017-10-11 06:36:00

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 137.877 ms

Loss rate: 0.00%

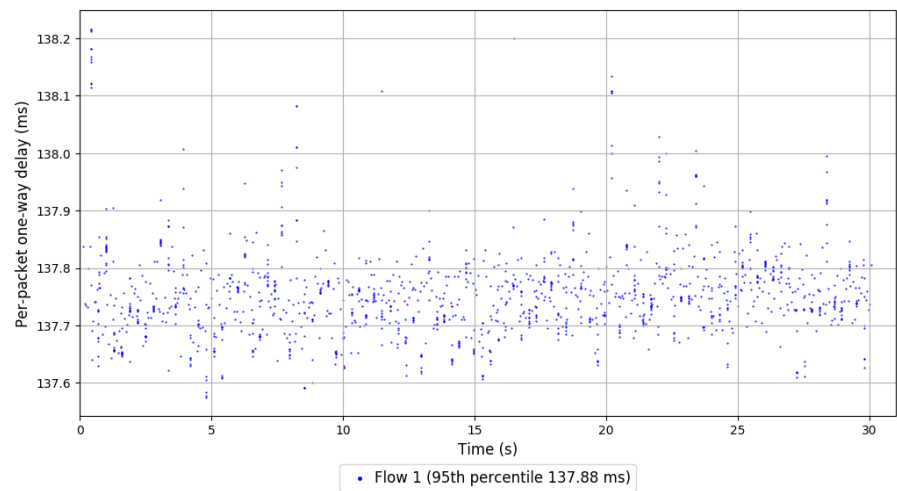
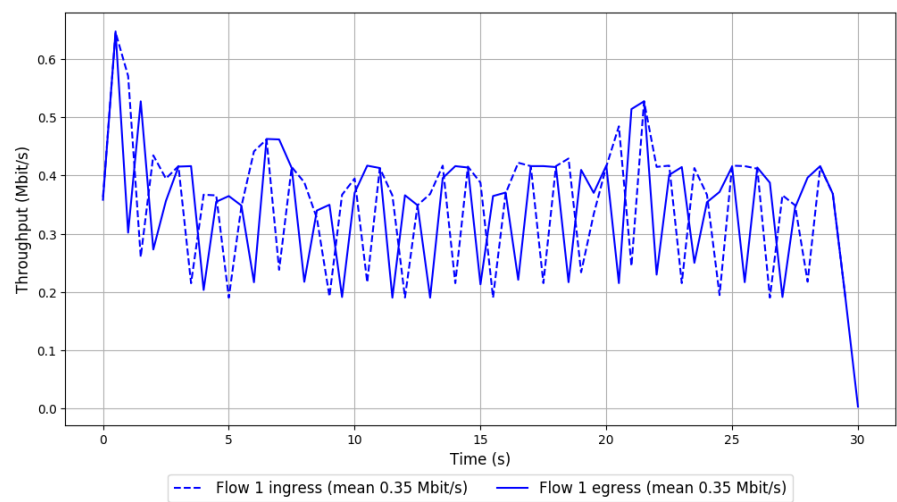
-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 137.877 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-10-11 06:47:23

End at: 2017-10-11 06:47:53

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 163.086 ms

Loss rate: 0.00%

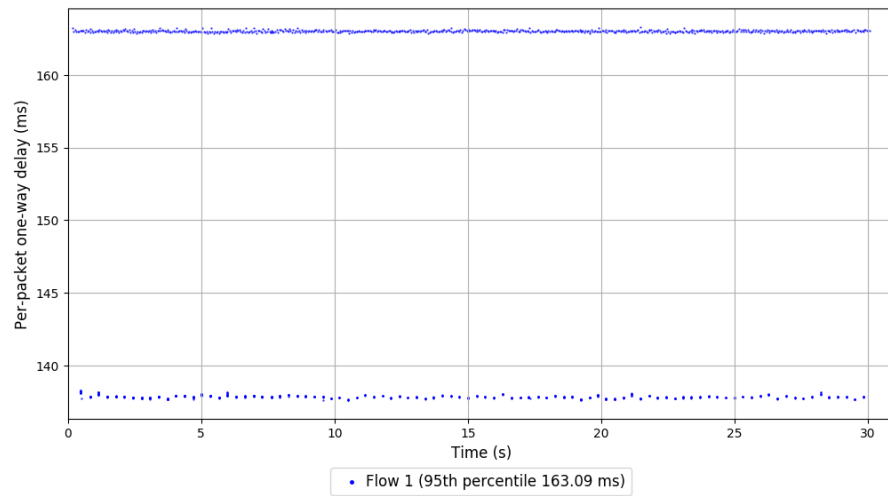
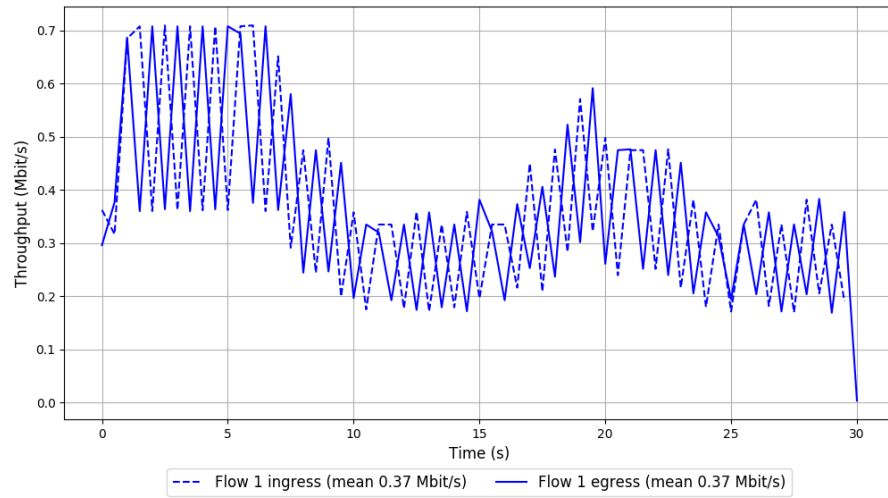
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 163.086 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-10-11 06:59:27

End at: 2017-10-11 06:59:57

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 138.053 ms

Loss rate: 0.00%

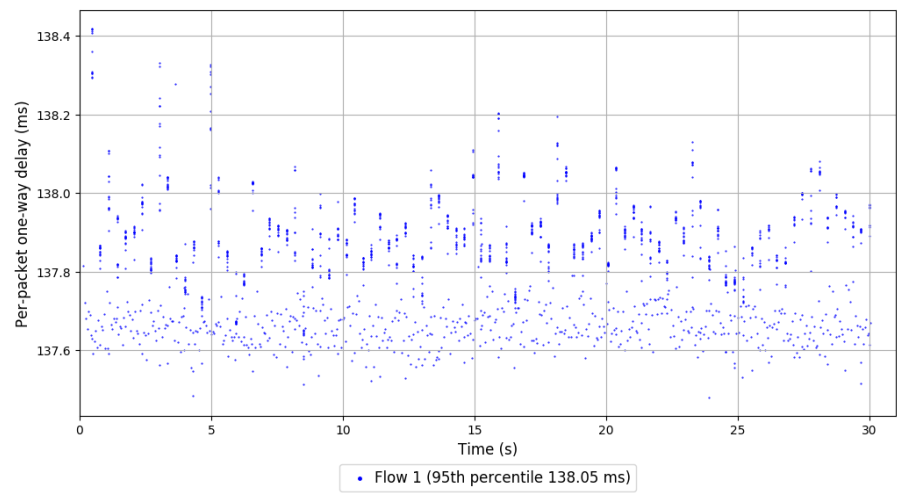
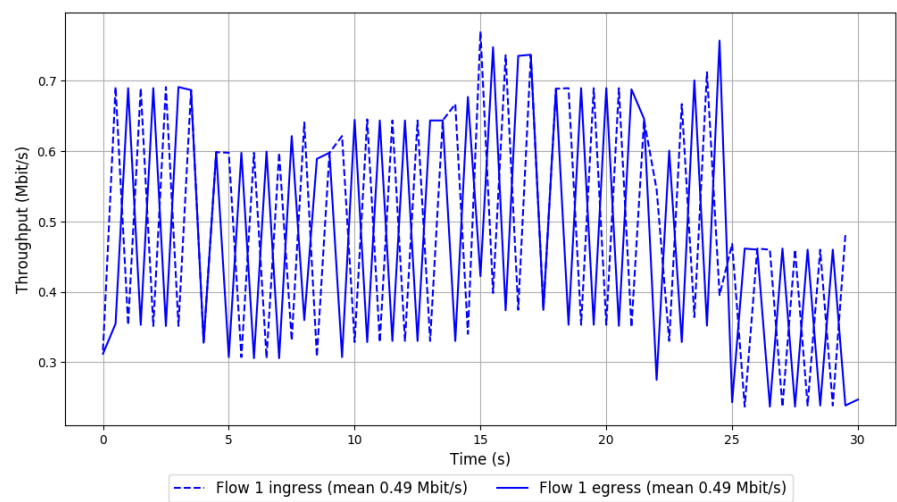
-- Flow 1:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 138.053 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-10-11 07:11:18

End at: 2017-10-11 07:11:48

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 137.886 ms

Loss rate: 0.00%

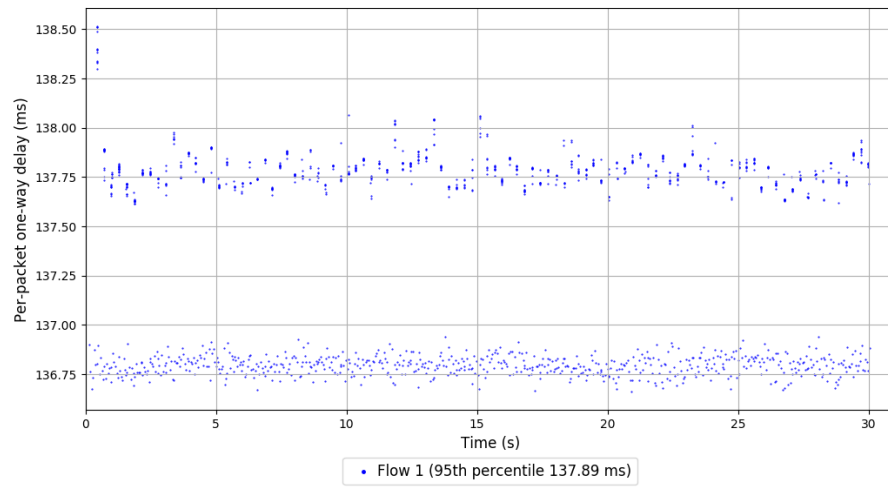
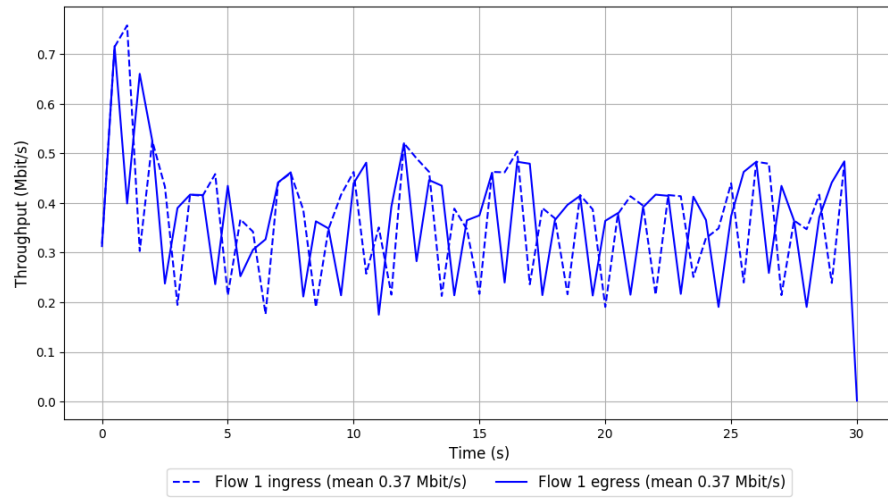
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 137.886 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

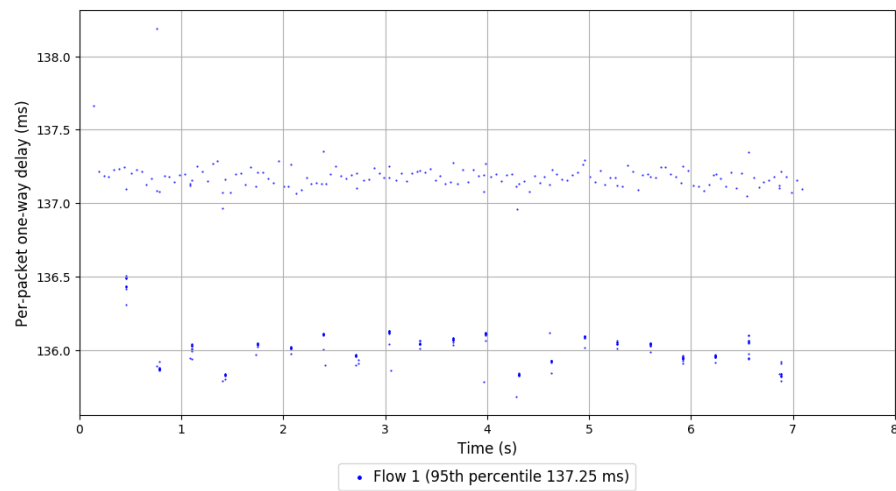
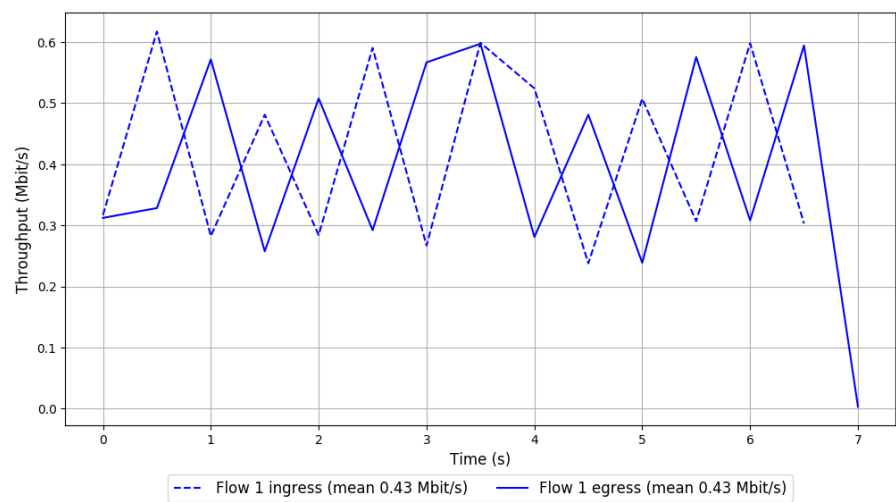


Run 6: Statistics of Sprout

Start at: 2017-10-11 07:22:59

End at: 2017-10-11 07:23:29

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-10-11 07:34:56

End at: 2017-10-11 07:35:26

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 136.129 ms

Loss rate: 0.00%

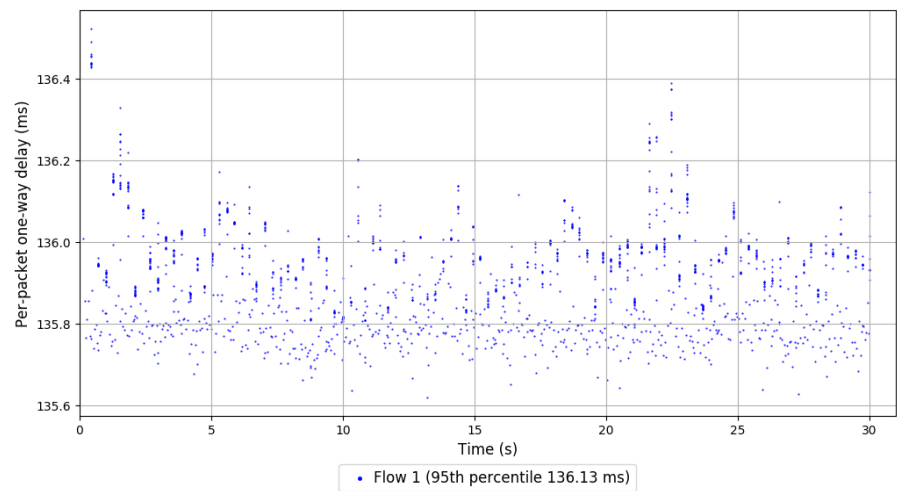
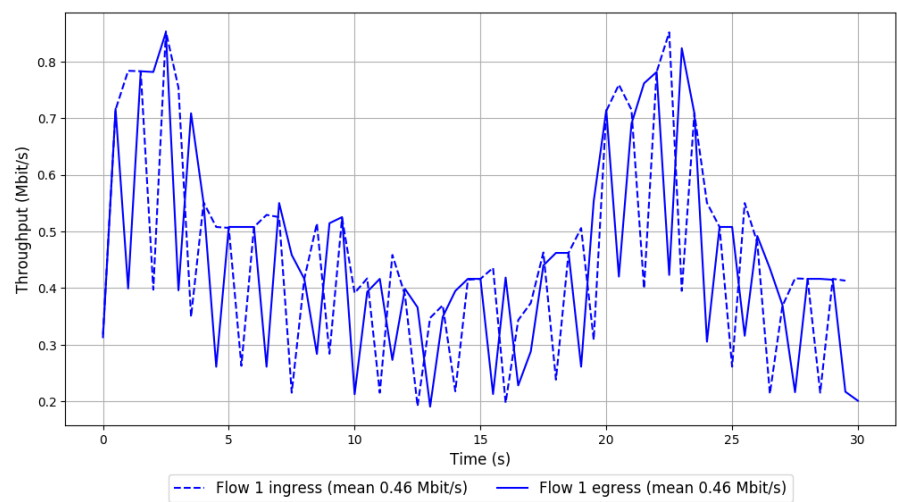
-- Flow 1:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 136.129 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-10-11 07:46:48

End at: 2017-10-11 07:47:18

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 137.812 ms

Loss rate: 0.00%

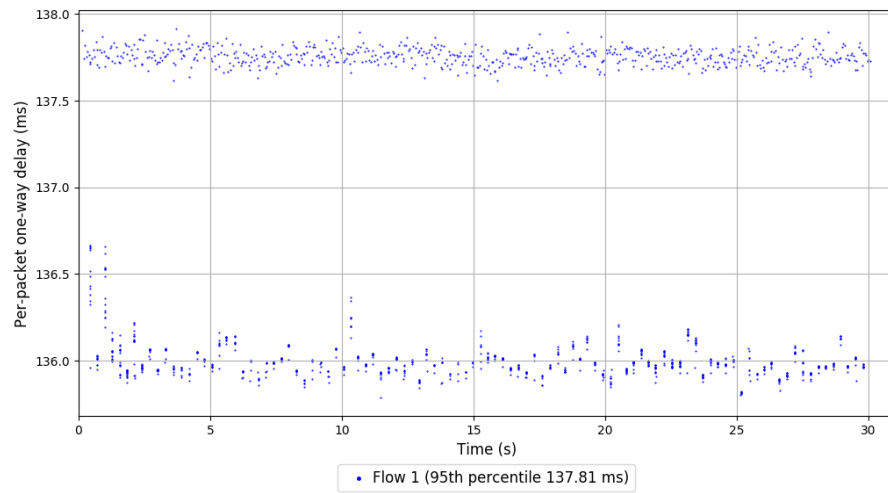
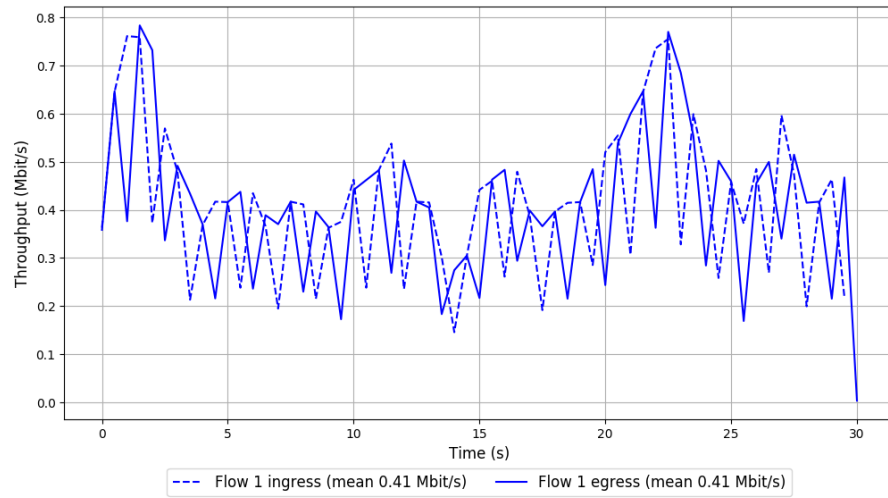
-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 137.812 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-10-11 07:58:24

End at: 2017-10-11 07:58:54

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 162.356 ms

Loss rate: 0.00%

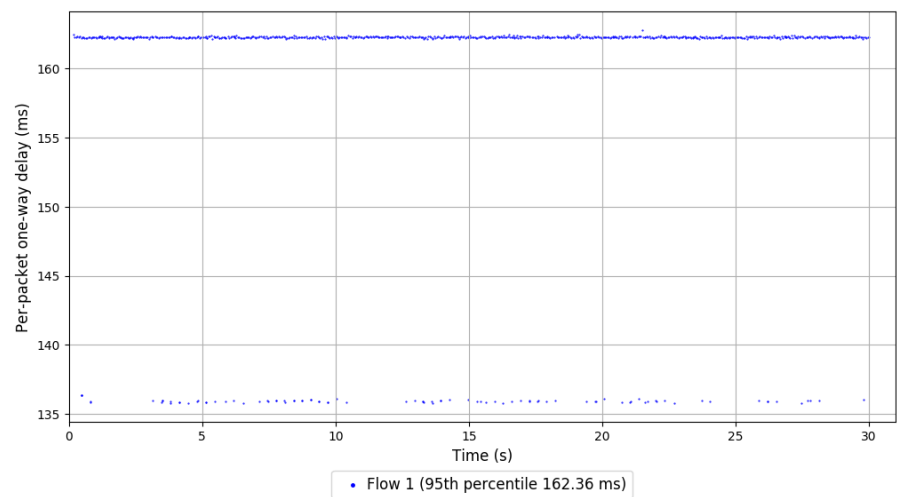
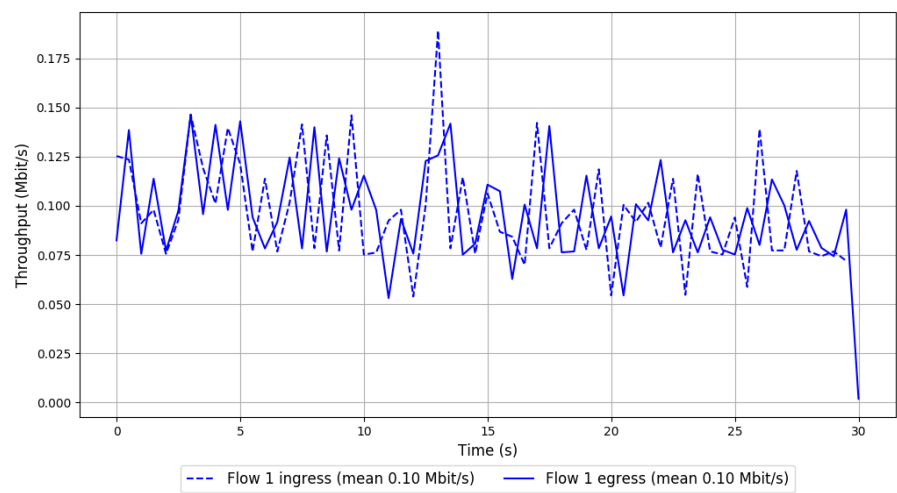
-- Flow 1:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 162.356 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-10-11 08:10:22

End at: 2017-10-11 08:10:52

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

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

Loss rate: 0.00%

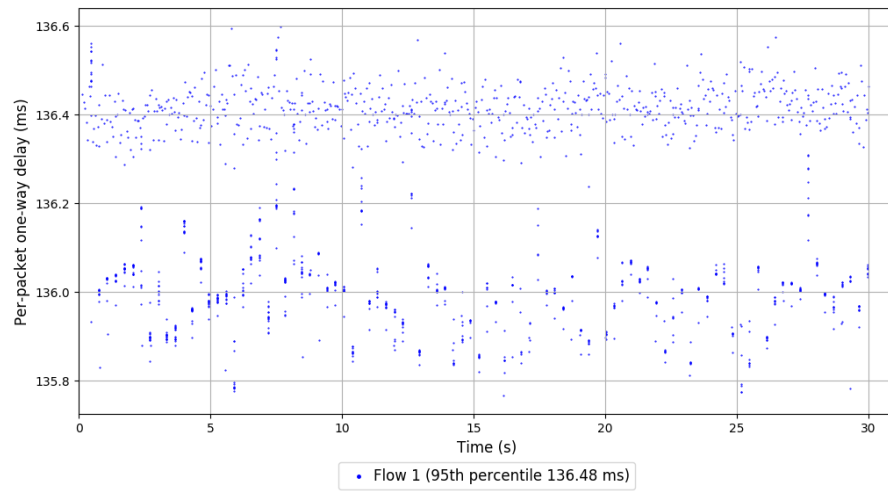
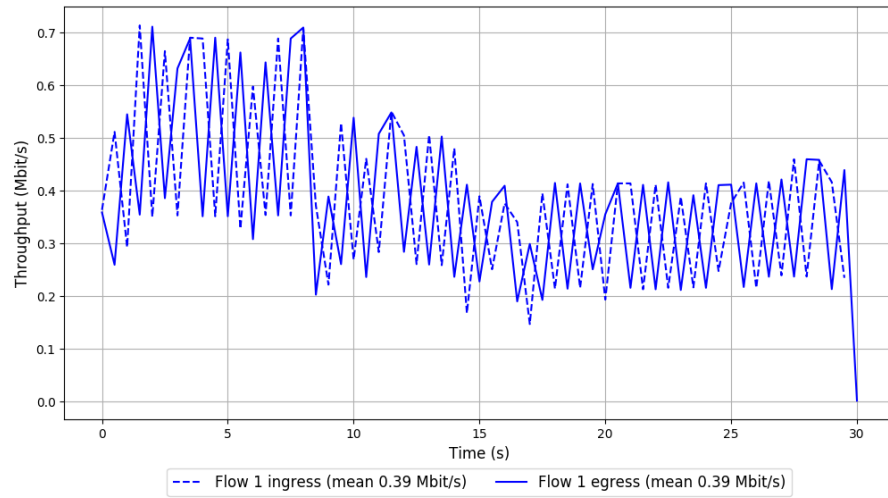
-- Flow 1:

Average throughput: 0.39 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

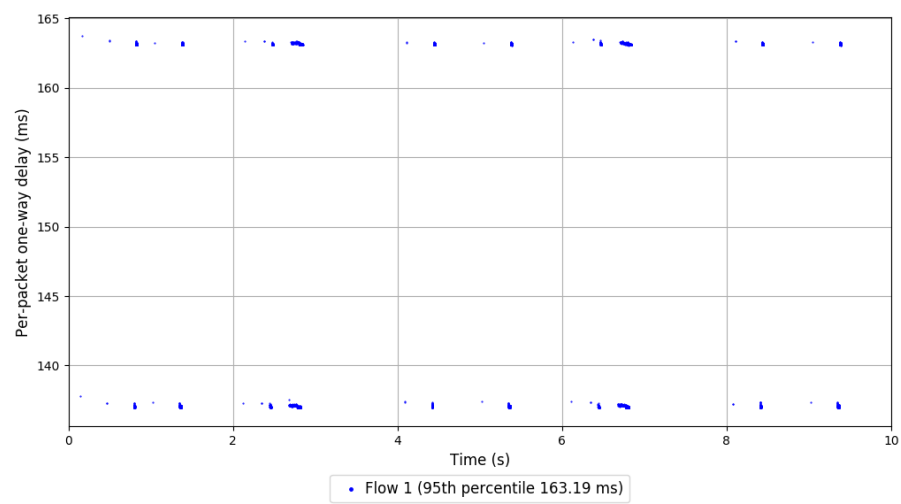
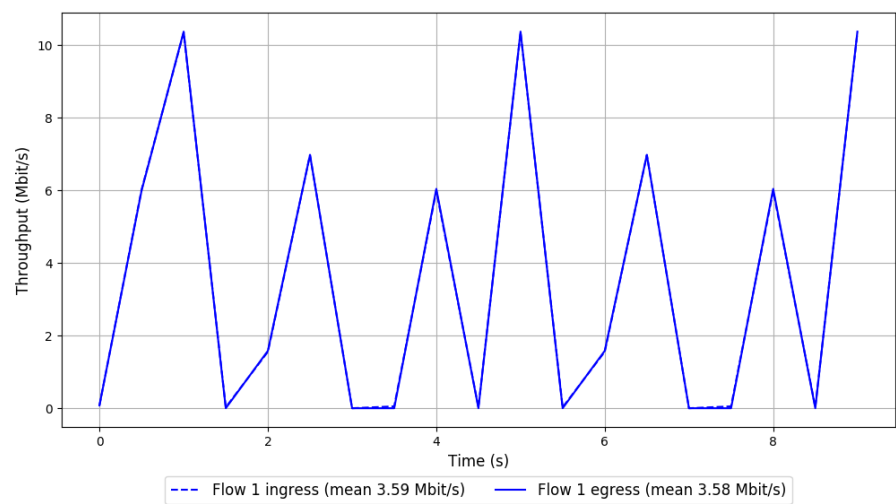


Run 1: Statistics of TaoVA-100x

Start at: 2017-10-11 06:19:25

End at: 2017-10-11 06:19:56

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

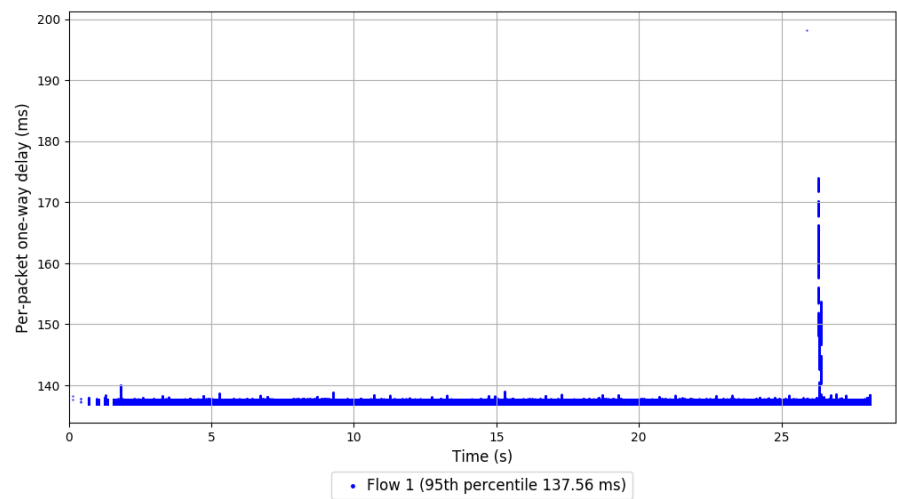
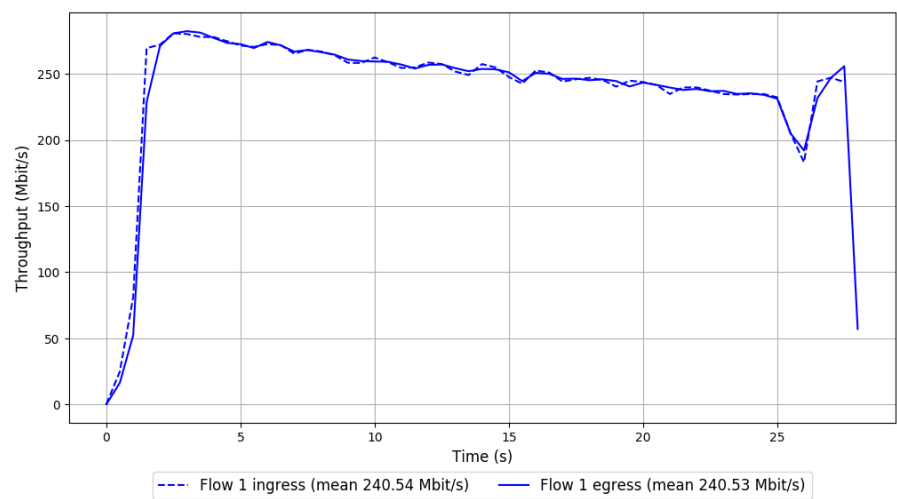


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-10-11 06:31:04
End at: 2017-10-11 06:31:34

# Below is generated by plot.py at 2017-10-11 09:11:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 240.53 Mbit/s
95th percentile per-packet one-way delay: 137.565 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 240.53 Mbit/s
95th percentile per-packet one-way delay: 137.565 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-10-11 06:43:01

End at: 2017-10-11 06:43:31

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 251.47 Mbit/s

95th percentile per-packet one-way delay: 137.609 ms

Loss rate: 0.00%

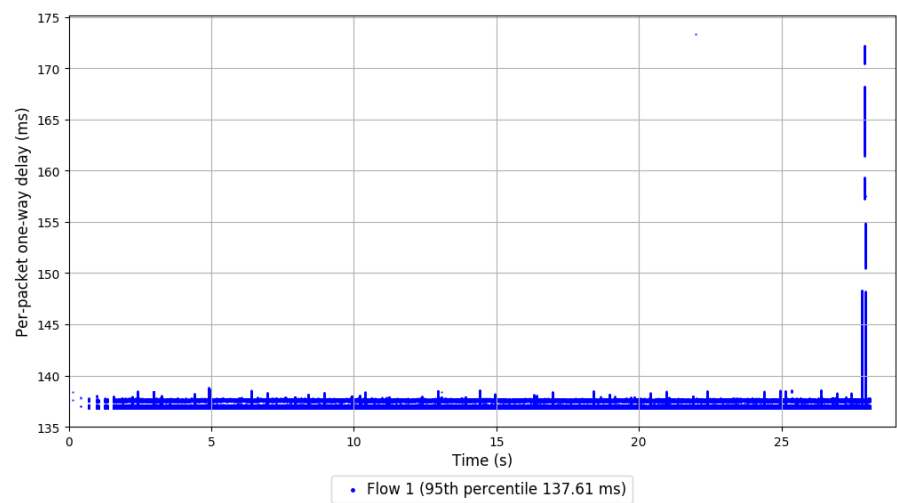
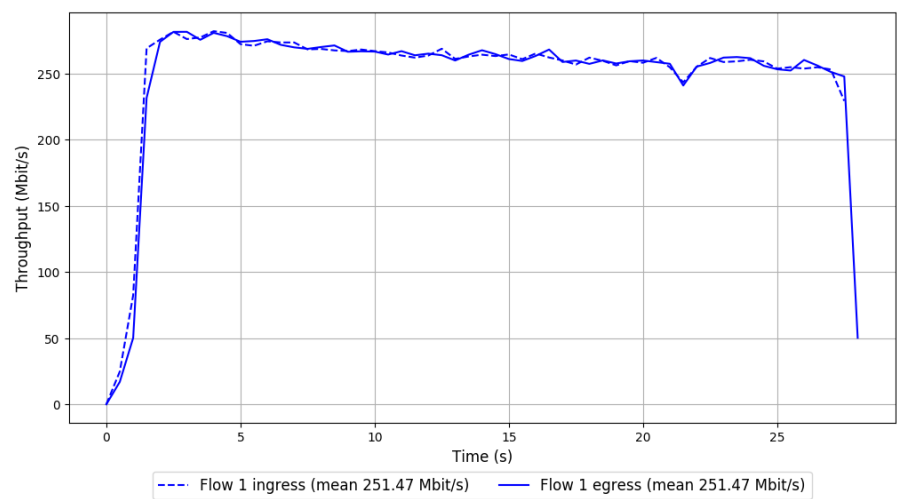
-- Flow 1:

Average throughput: 251.47 Mbit/s

95th percentile per-packet one-way delay: 137.609 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-10-11 06:55:02

End at: 2017-10-11 06:55:32

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.71 Mbit/s

95th percentile per-packet one-way delay: 137.623 ms

Loss rate: 0.00%

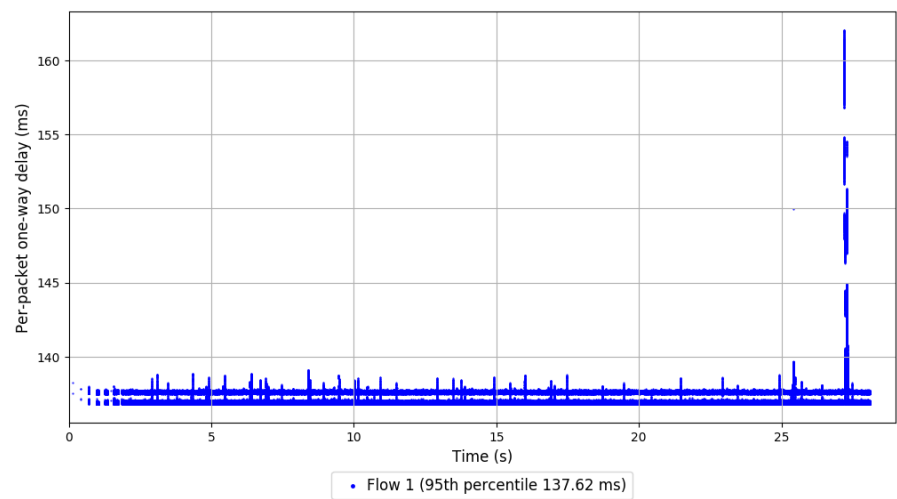
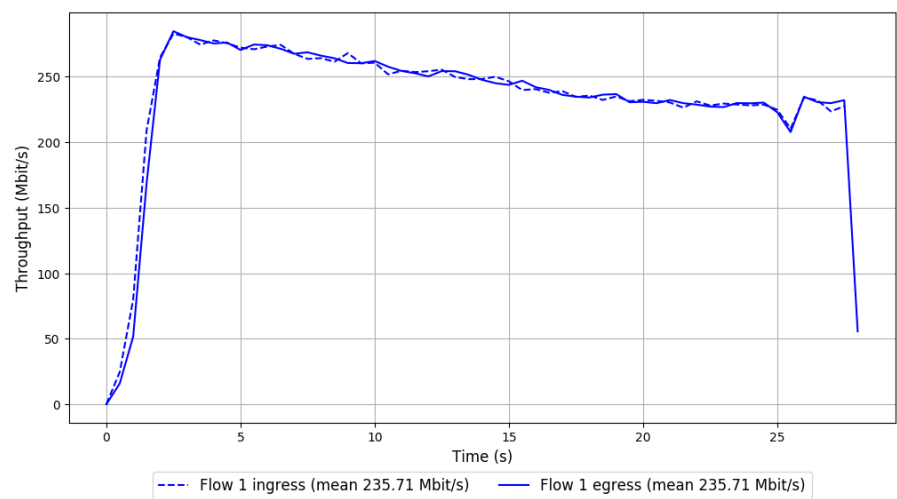
-- Flow 1:

Average throughput: 235.71 Mbit/s

95th percentile per-packet one-way delay: 137.623 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-10-11 07:06:59

End at: 2017-10-11 07:07:29

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.80 Mbit/s

95th percentile per-packet one-way delay: 137.627 ms

Loss rate: 0.00%

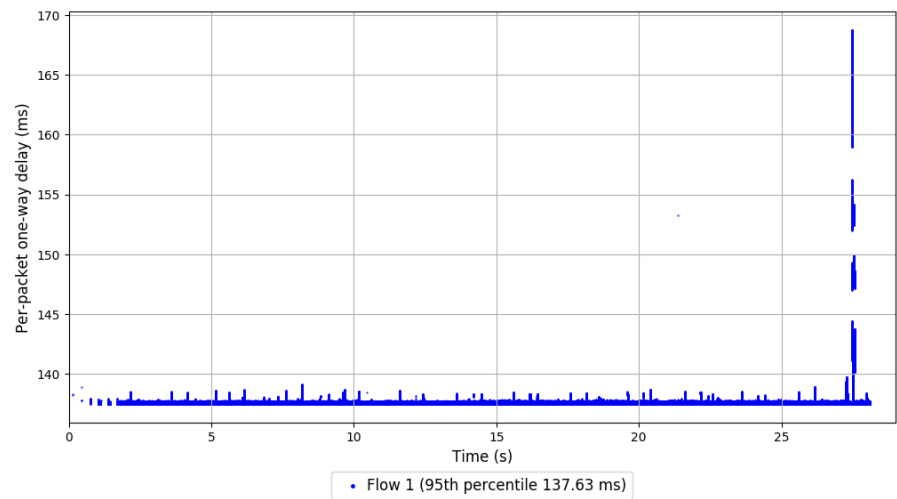
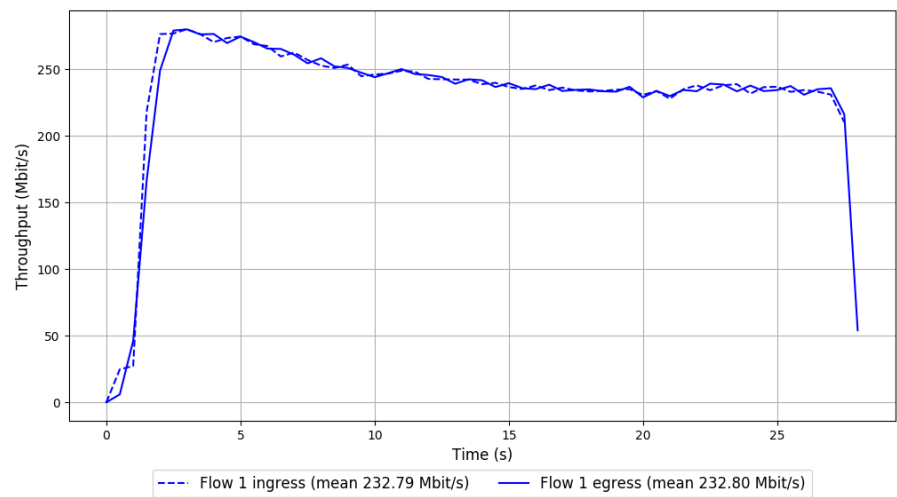
-- Flow 1:

Average throughput: 232.80 Mbit/s

95th percentile per-packet one-way delay: 137.627 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-10-11 07:18:52

End at: 2017-10-11 07:19:22

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.33 Mbit/s

95th percentile per-packet one-way delay: 137.684 ms

Loss rate: 0.00%

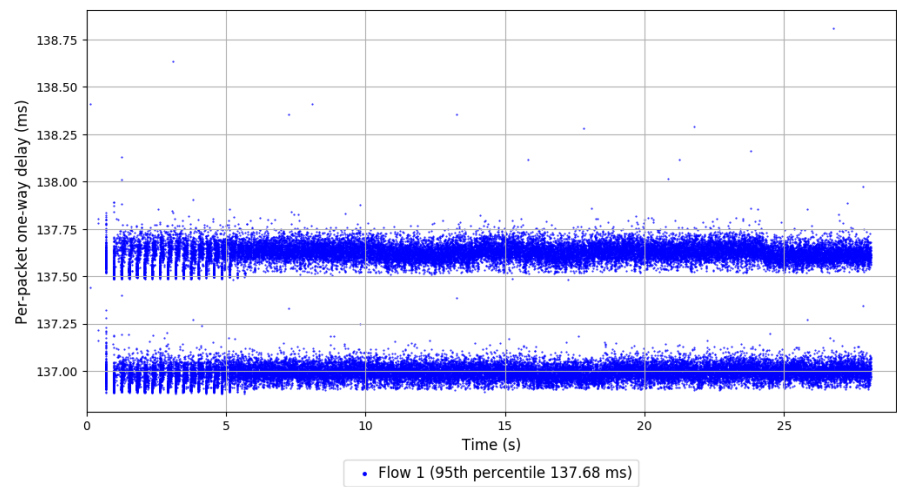
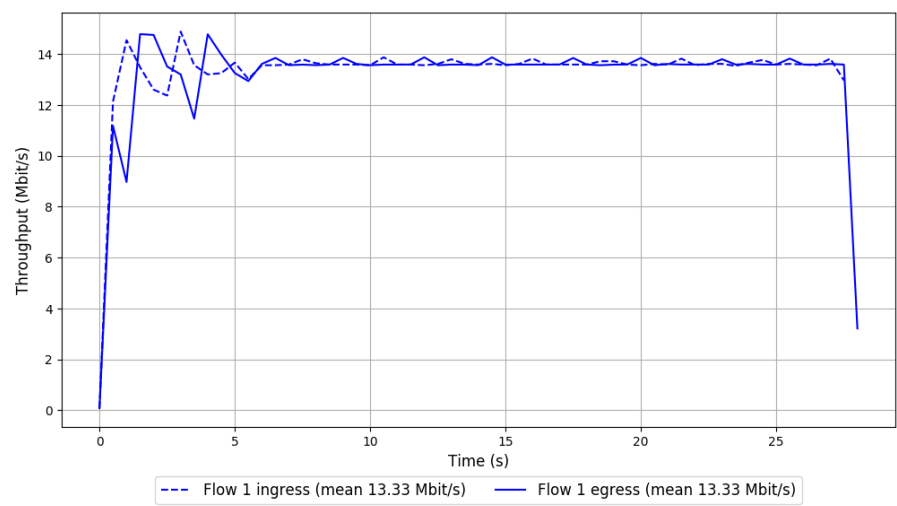
-- Flow 1:

Average throughput: 13.33 Mbit/s

95th percentile per-packet one-way delay: 137.684 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-10-11 07:30:38

End at: 2017-10-11 07:31:08

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.69 Mbit/s

95th percentile per-packet one-way delay: 135.744 ms

Loss rate: 0.00%

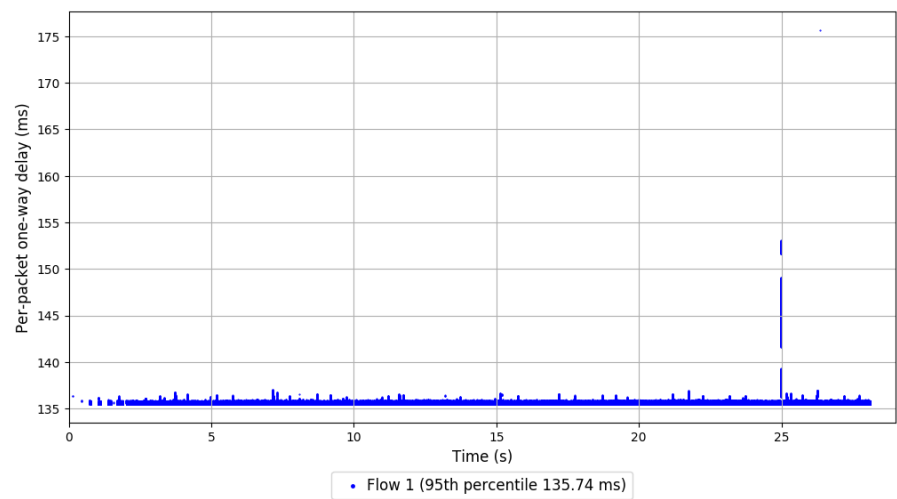
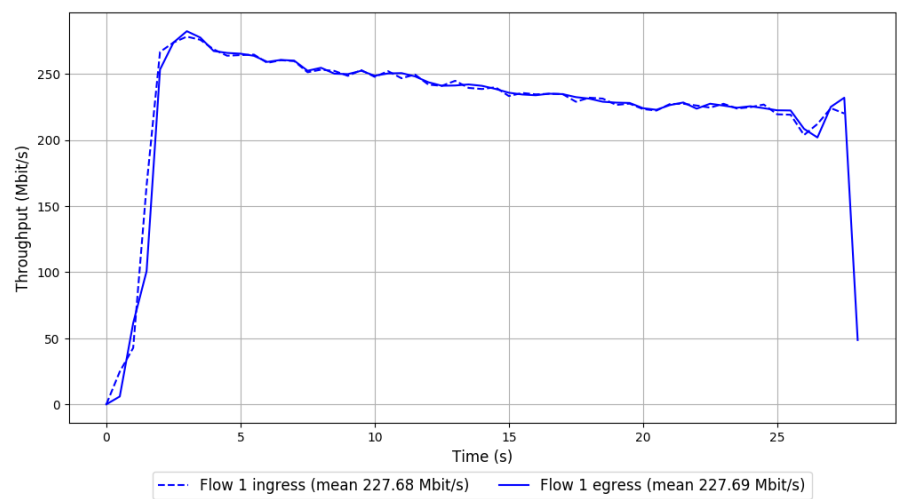
-- Flow 1:

Average throughput: 227.69 Mbit/s

95th percentile per-packet one-way delay: 135.744 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-10-11 07:42:30

End at: 2017-10-11 07:43:00

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.63 Mbit/s

95th percentile per-packet one-way delay: 136.381 ms

Loss rate: 0.00%

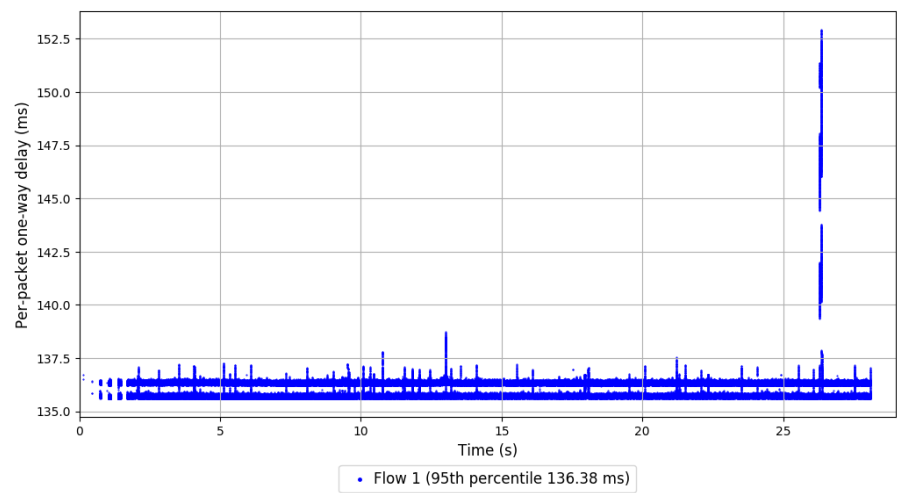
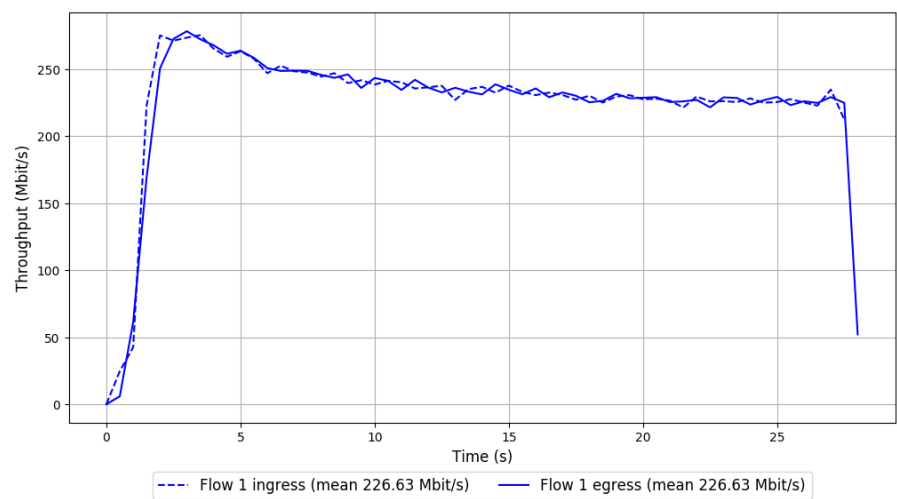
-- Flow 1:

Average throughput: 226.63 Mbit/s

95th percentile per-packet one-way delay: 136.381 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-10-11 07:54:30

End at: 2017-10-11 07:55:00

Below is generated by plot.py at 2017-10-11 09:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.32 Mbit/s

95th percentile per-packet one-way delay: 163.224 ms

Loss rate: 0.00%

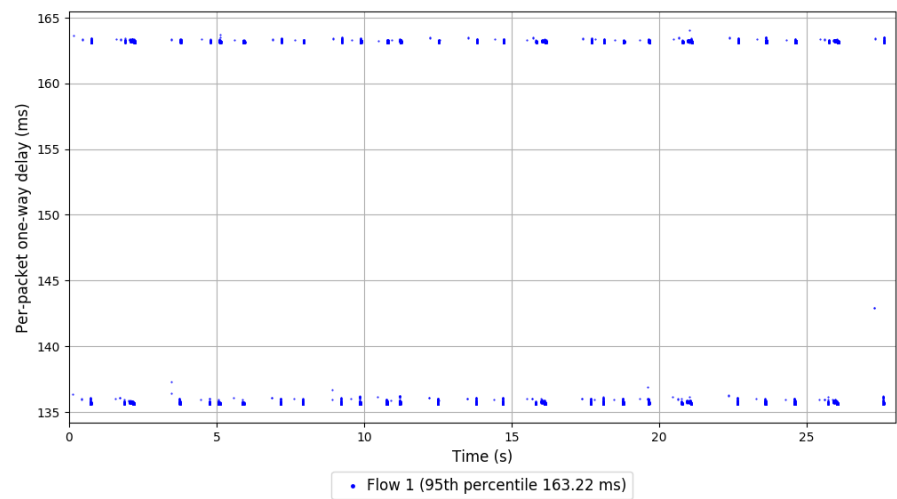
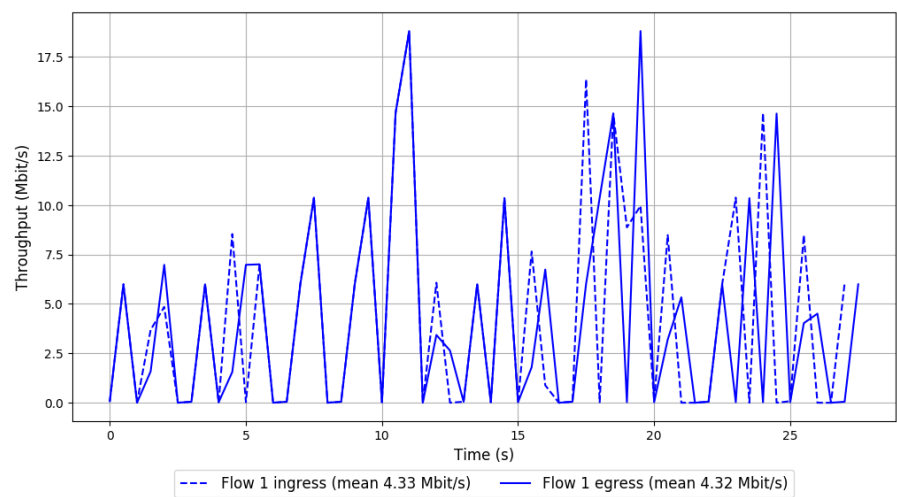
-- Flow 1:

Average throughput: 4.32 Mbit/s

95th percentile per-packet one-way delay: 163.224 ms

Loss rate: 0.00%

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

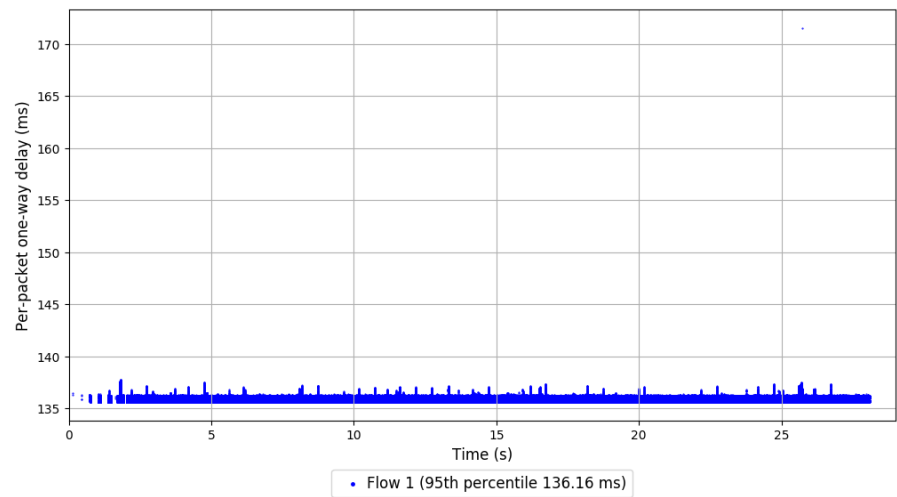
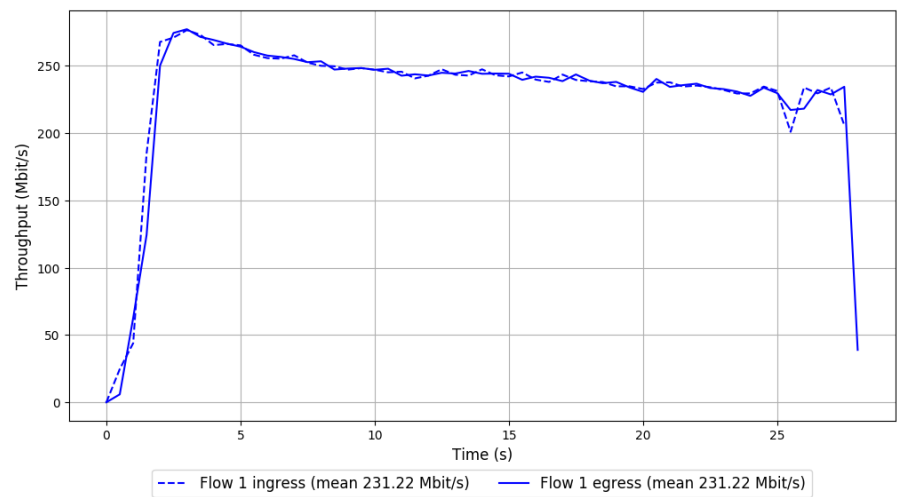


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-10-11 08:06:07
End at: 2017-10-11 08:06:37

# Below is generated by plot.py at 2017-10-11 09:18:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 231.22 Mbit/s
95th percentile per-packet one-way delay: 136.165 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 231.22 Mbit/s
95th percentile per-packet one-way delay: 136.165 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-10-11 06:20:52

End at: 2017-10-11 06:21:23

Below is generated by plot.py at 2017-10-11 09:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.17 Mbit/s

95th percentile per-packet one-way delay: 138.388 ms

Loss rate: 0.00%

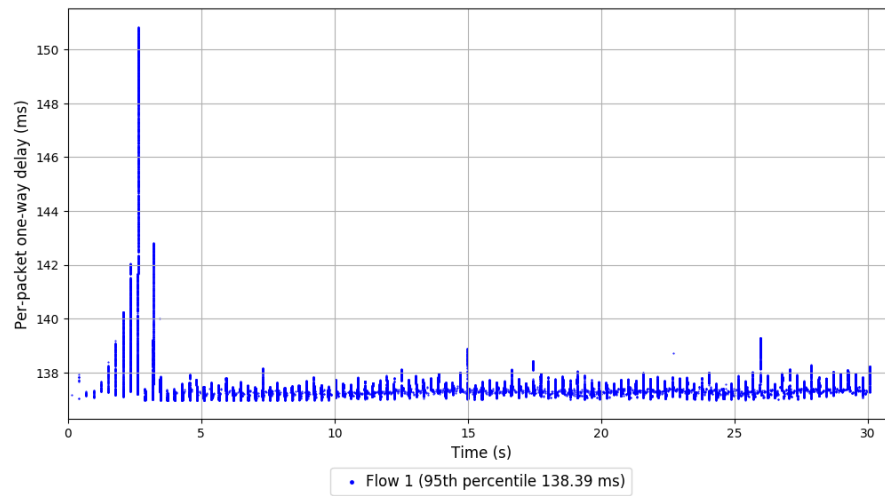
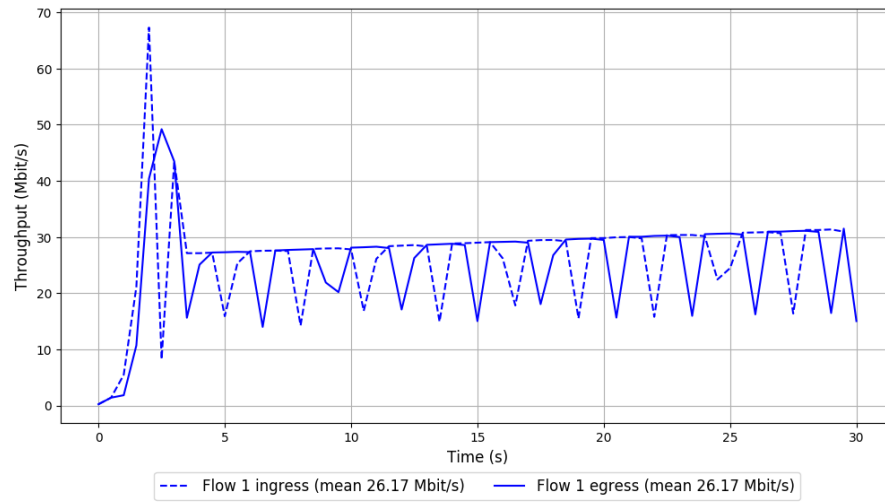
-- Flow 1:

Average throughput: 26.17 Mbit/s

95th percentile per-packet one-way delay: 138.388 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-10-11 06:32:56

End at: 2017-10-11 06:33:26

Below is generated by plot.py at 2017-10-11 09:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.71 Mbit/s

95th percentile per-packet one-way delay: 138.273 ms

Loss rate: 0.00%

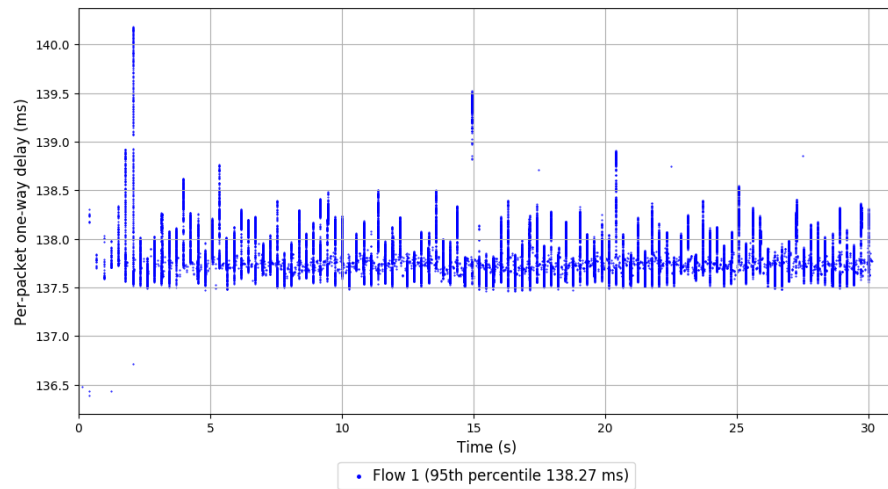
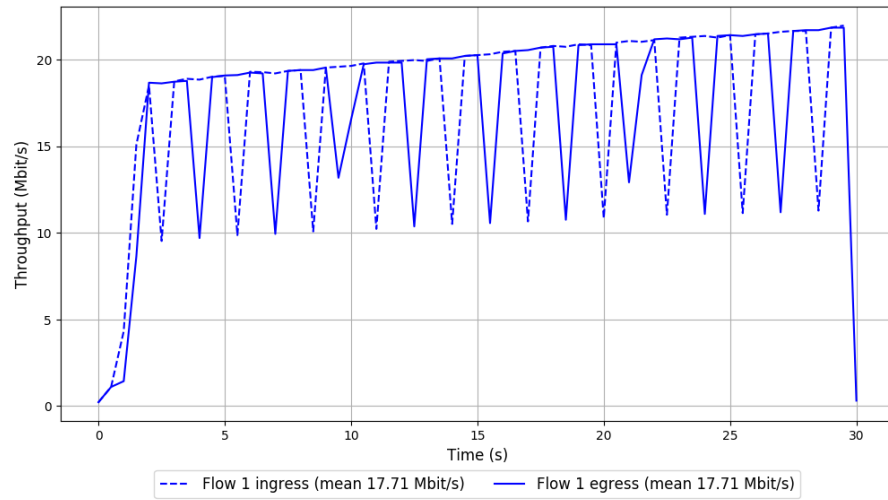
-- Flow 1:

Average throughput: 17.71 Mbit/s

95th percentile per-packet one-way delay: 138.273 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-10-11 06:44:53

End at: 2017-10-11 06:45:23

Below is generated by plot.py at 2017-10-11 09:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.99 Mbit/s

95th percentile per-packet one-way delay: 138.557 ms

Loss rate: 0.00%

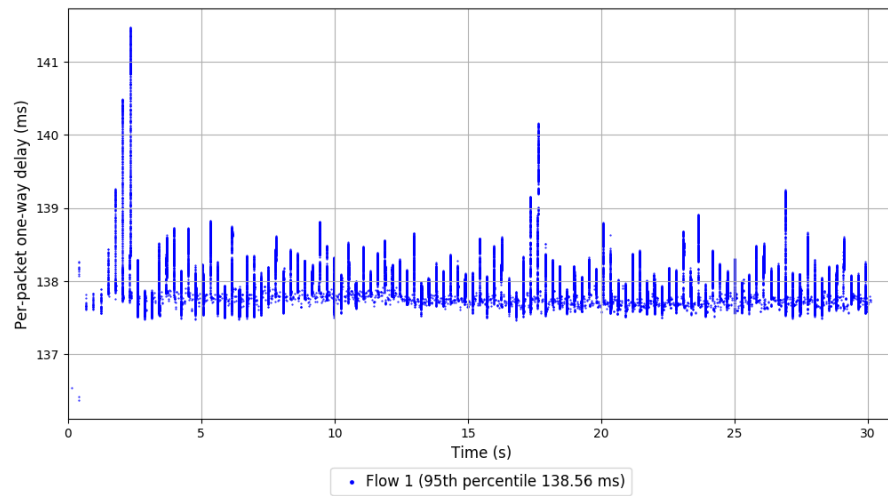
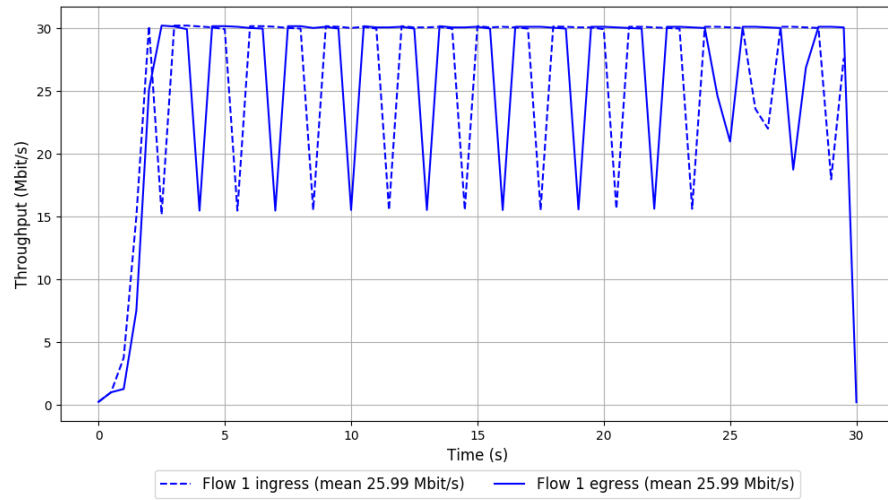
-- Flow 1:

Average throughput: 25.99 Mbit/s

95th percentile per-packet one-way delay: 138.557 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-10-11 06:56:53

End at: 2017-10-11 06:57:23

Below is generated by plot.py at 2017-10-11 09:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.26 Mbit/s

95th percentile per-packet one-way delay: 140.880 ms

Loss rate: 0.00%

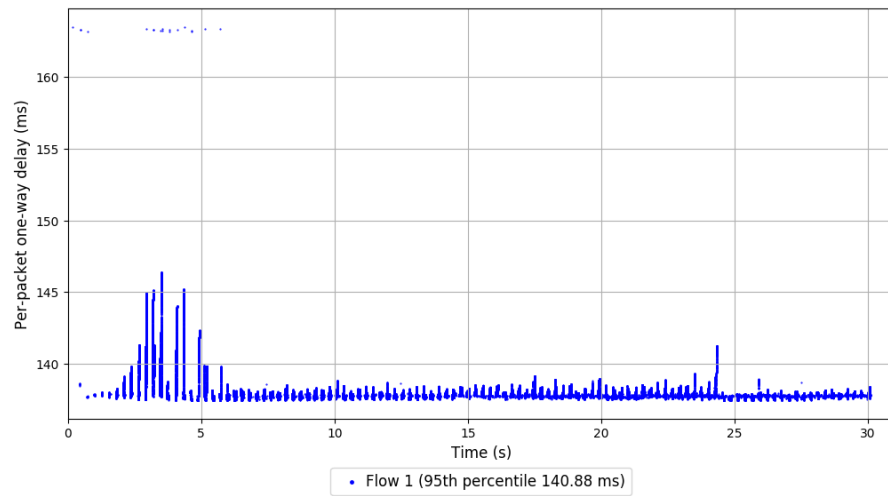
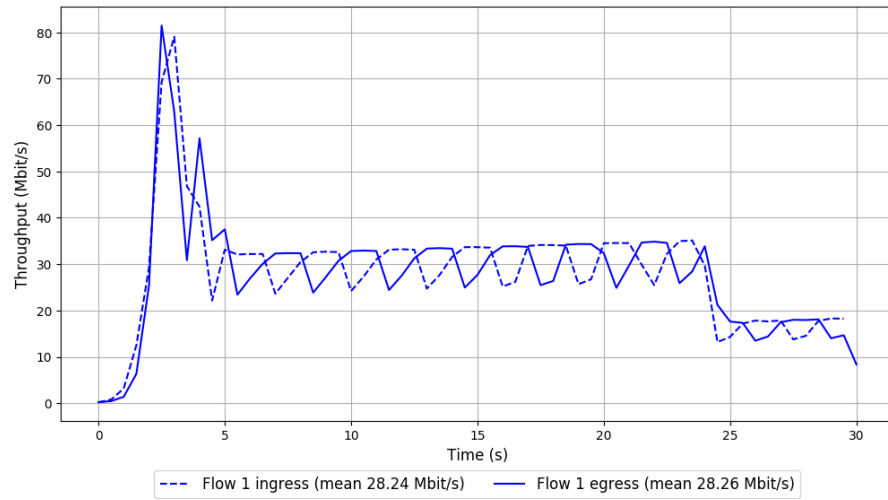
-- Flow 1:

Average throughput: 28.26 Mbit/s

95th percentile per-packet one-way delay: 140.880 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-10-11 07:08:50

End at: 2017-10-11 07:09:20

Below is generated by plot.py at 2017-10-11 09:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.50 Mbit/s

95th percentile per-packet one-way delay: 140.043 ms

Loss rate: 0.00%

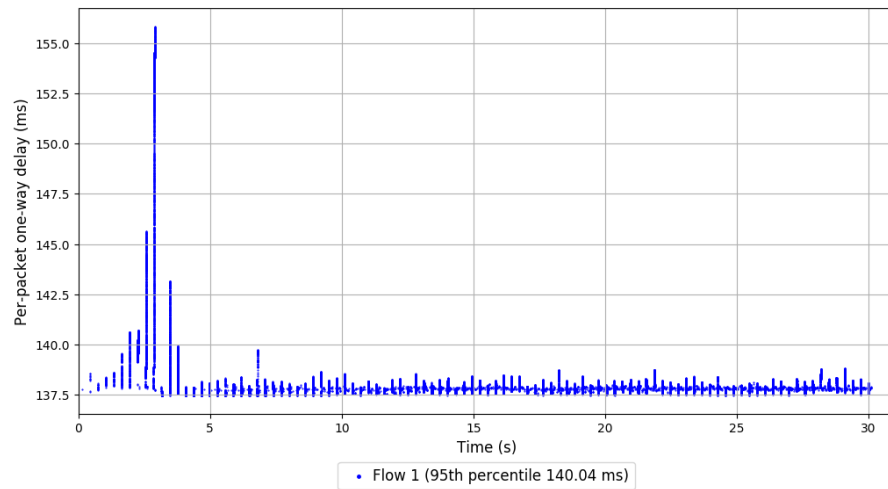
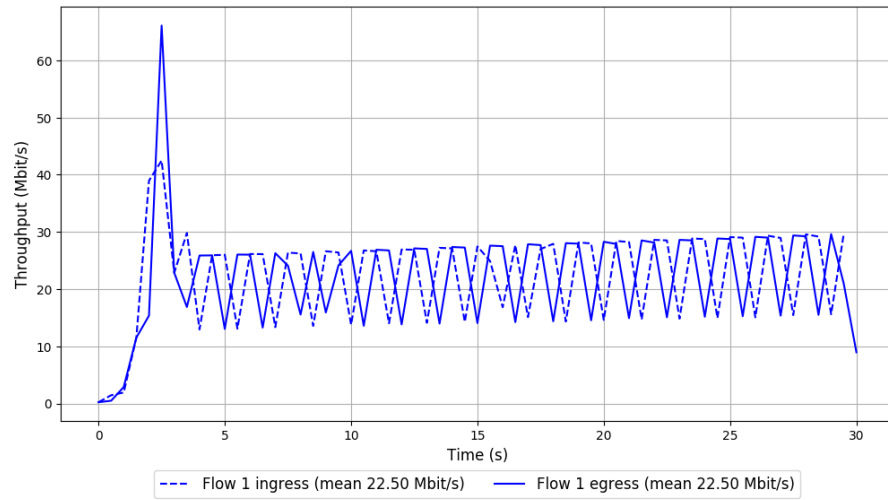
-- Flow 1:

Average throughput: 22.50 Mbit/s

95th percentile per-packet one-way delay: 140.043 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-10-11 07:20:21

End at: 2017-10-11 07:20:51

Below is generated by plot.py at 2017-10-11 09:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.66 Mbit/s

95th percentile per-packet one-way delay: 138.926 ms

Loss rate: 0.00%

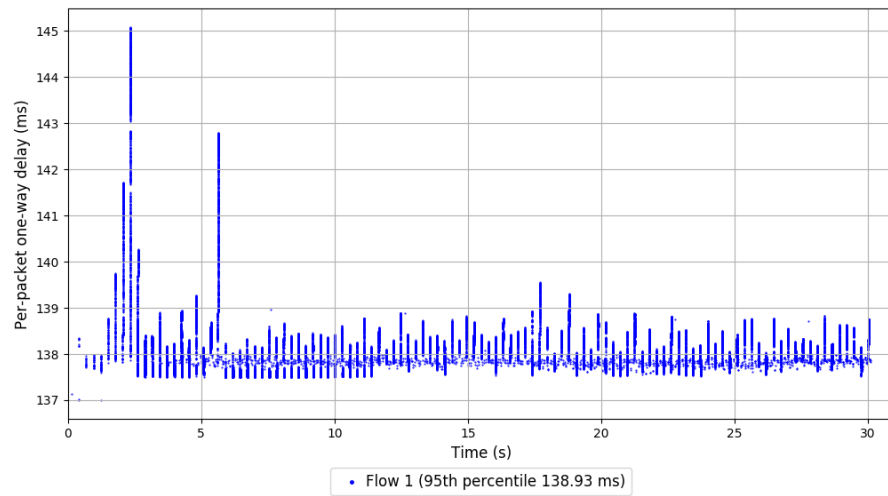
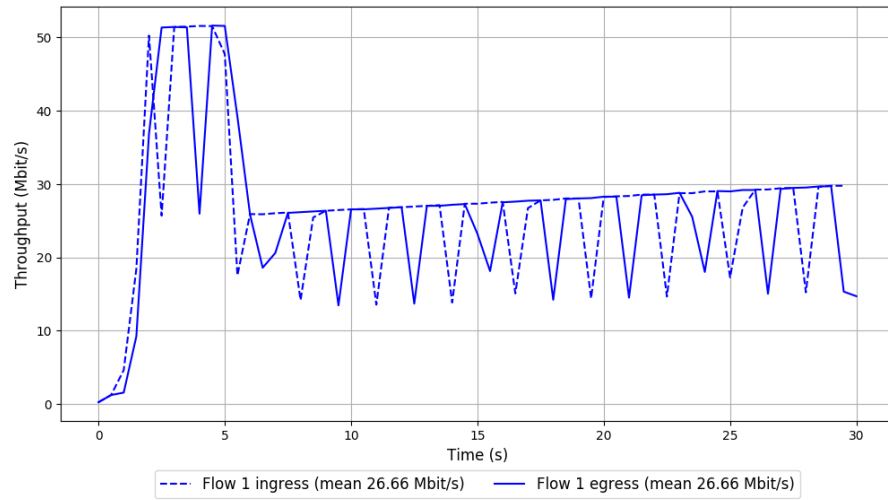
-- Flow 1:

Average throughput: 26.66 Mbit/s

95th percentile per-packet one-way delay: 138.926 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-10-11 07:32:29

End at: 2017-10-11 07:32:59

Below is generated by plot.py at 2017-10-11 09:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.48 Mbit/s

95th percentile per-packet one-way delay: 137.112 ms

Loss rate: 0.00%

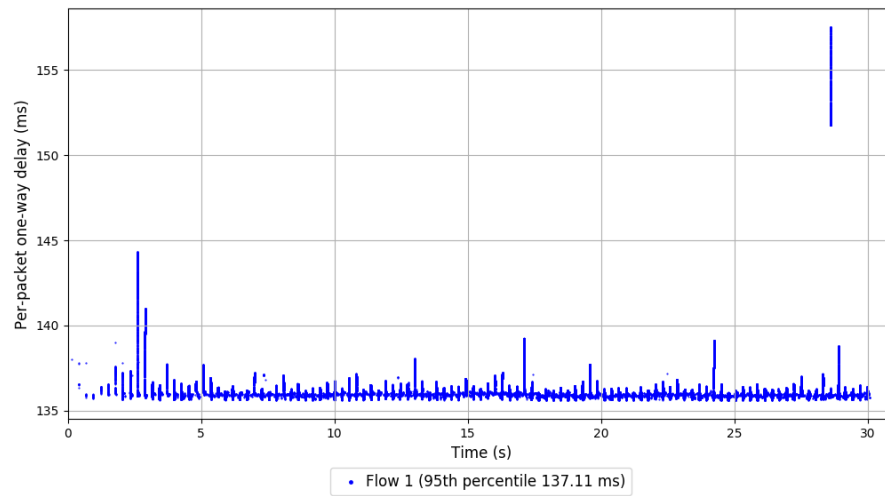
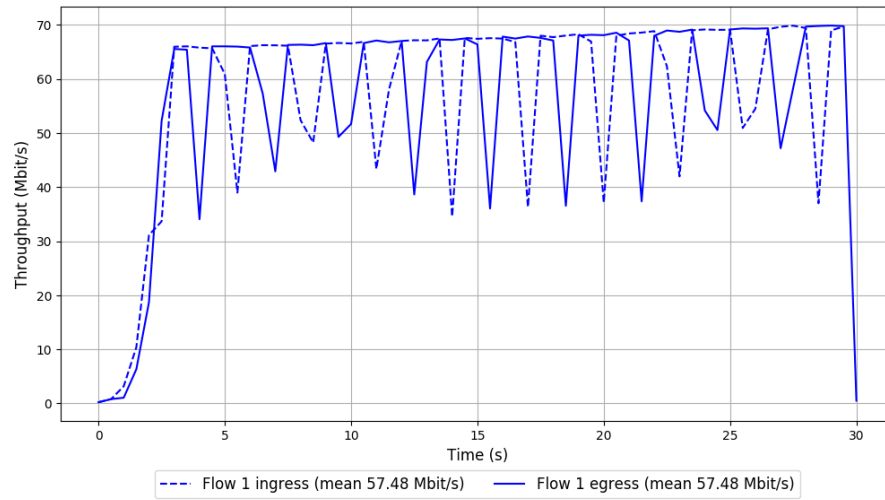
-- Flow 1:

Average throughput: 57.48 Mbit/s

95th percentile per-packet one-way delay: 137.112 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-10-11 07:44:20

End at: 2017-10-11 07:44:50

Below is generated by plot.py at 2017-10-11 09:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.16 Mbit/s

95th percentile per-packet one-way delay: 136.677 ms

Loss rate: 0.00%

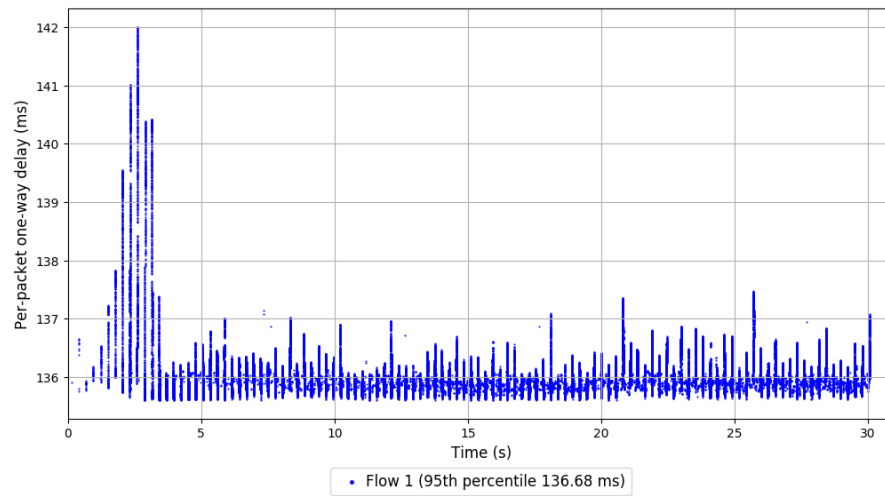
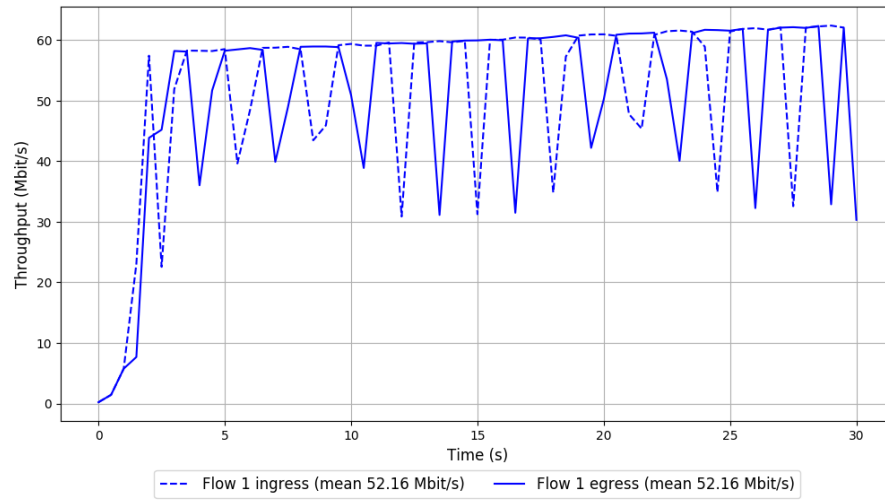
-- Flow 1:

Average throughput: 52.16 Mbit/s

95th percentile per-packet one-way delay: 136.677 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-10-11 07:55:58

End at: 2017-10-11 07:56:28

Below is generated by plot.py at 2017-10-11 09:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.56 Mbit/s

95th percentile per-packet one-way delay: 136.141 ms

Loss rate: 0.02%

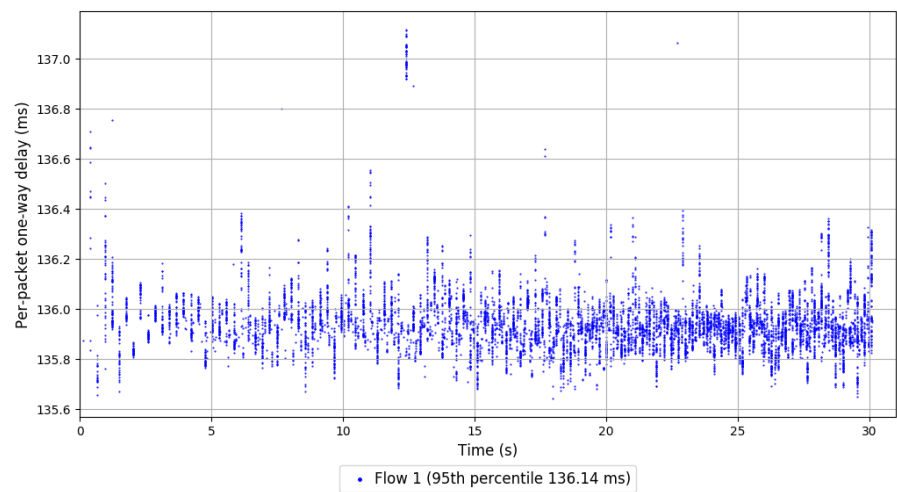
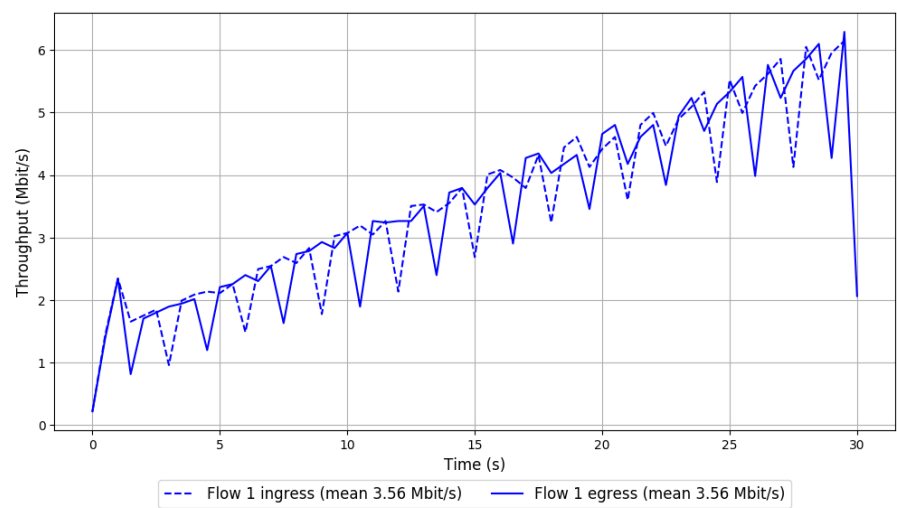
-- Flow 1:

Average throughput: 3.56 Mbit/s

95th percentile per-packet one-way delay: 136.141 ms

Loss rate: 0.02%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-10-11 08:07:57

End at: 2017-10-11 08:08:27

Below is generated by plot.py at 2017-10-11 09:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.05 Mbit/s

95th percentile per-packet one-way delay: 138.191 ms

Loss rate: 0.00%

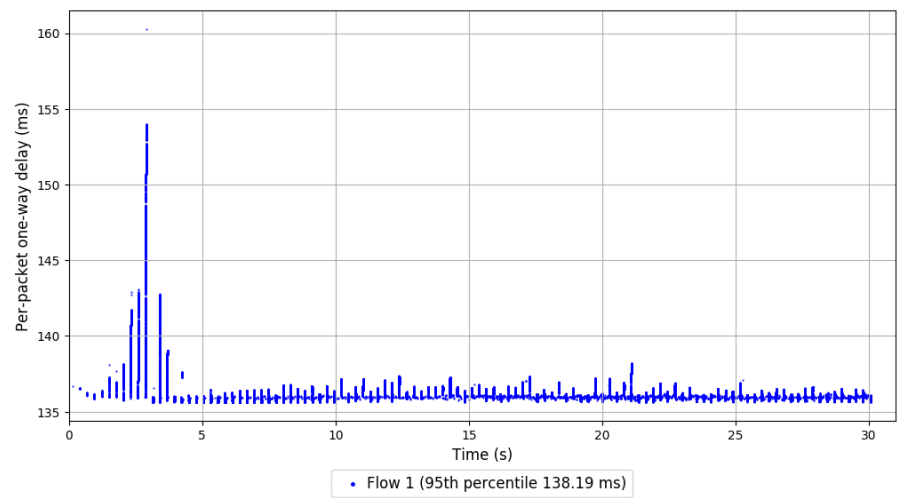
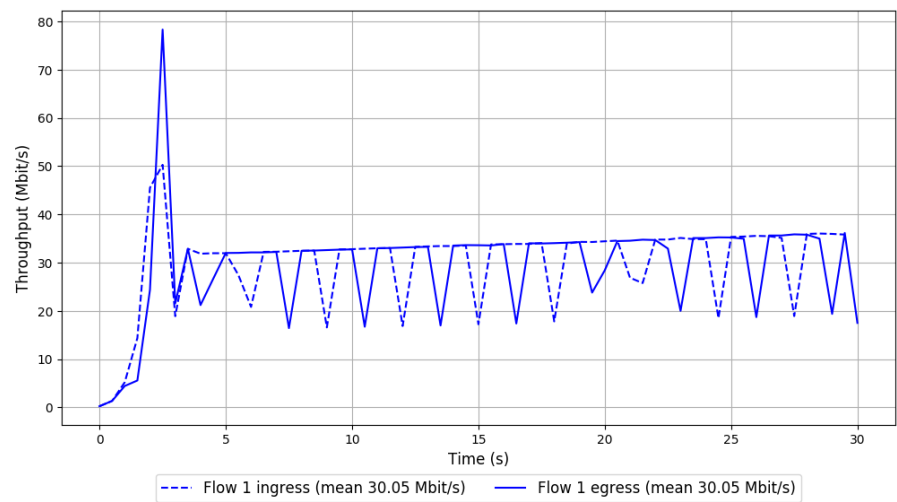
-- Flow 1:

Average throughput: 30.05 Mbit/s

95th percentile per-packet one-way delay: 138.191 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

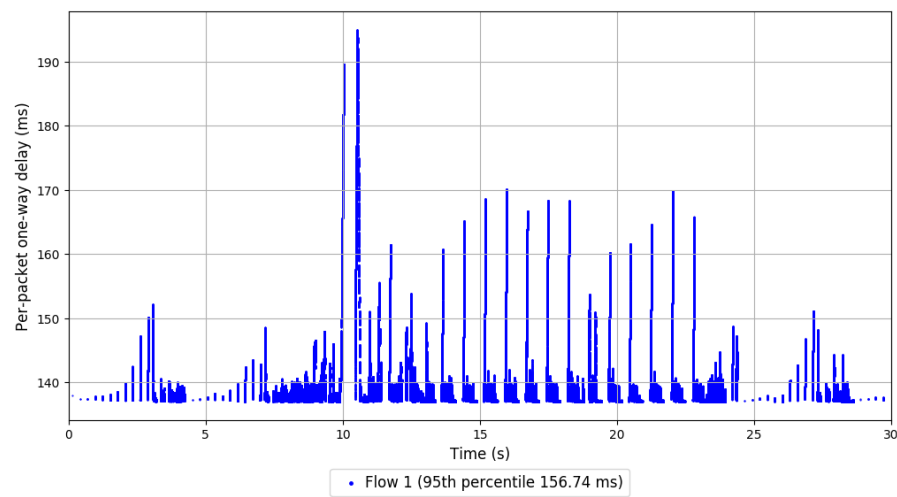
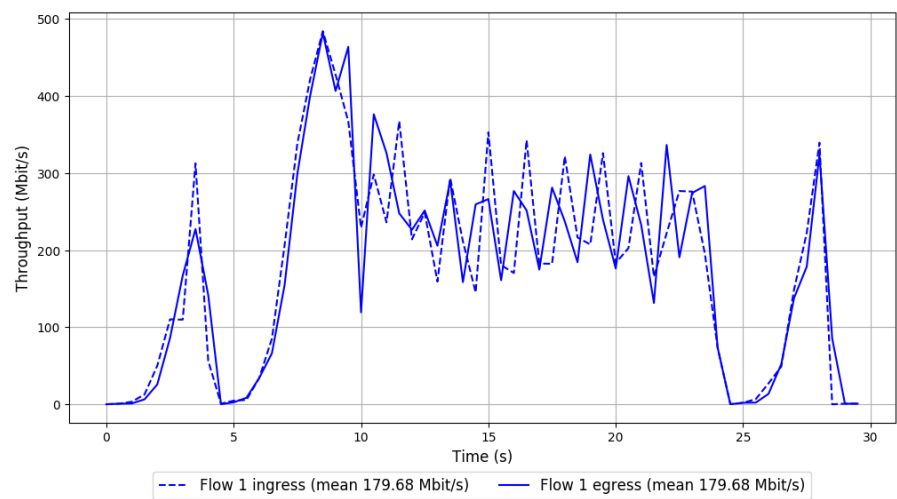


```
Run 1: Statistics of Verus

Start at: 2017-10-11 06:22:26
End at: 2017-10-11 06:22:56

# Below is generated by plot.py at 2017-10-11 09:18:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 179.68 Mbit/s
95th percentile per-packet one-way delay: 156.735 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 179.68 Mbit/s
95th percentile per-packet one-way delay: 156.735 ms
Loss rate: 0.00%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-10-11 06:34:29

End at: 2017-10-11 06:34:59

Below is generated by plot.py at 2017-10-11 09:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.49 Mbit/s

95th percentile per-packet one-way delay: 153.698 ms

Loss rate: 0.00%

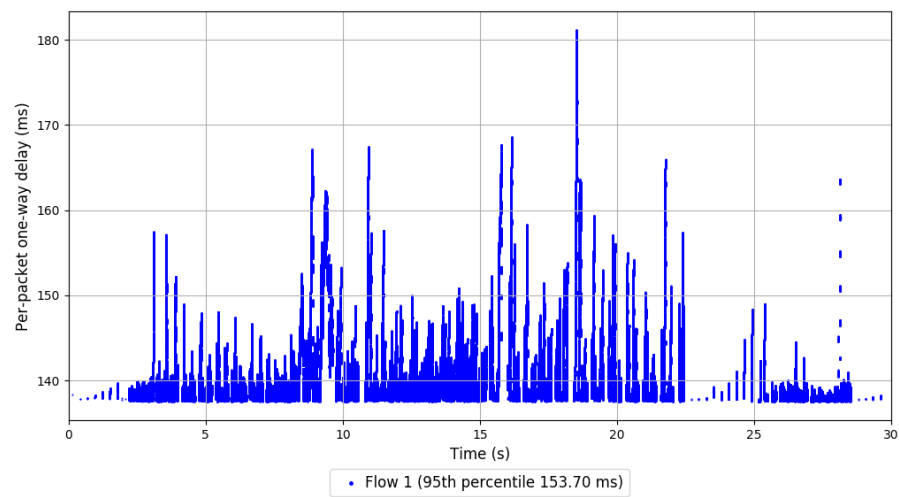
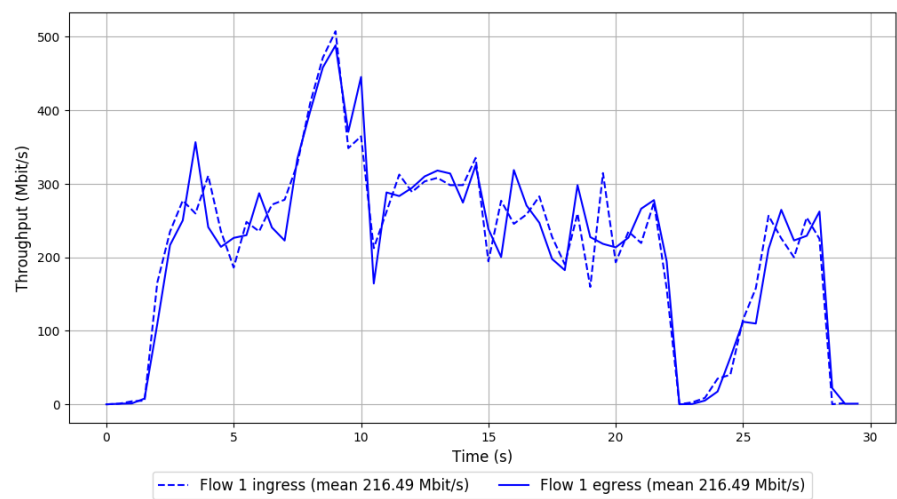
-- Flow 1:

Average throughput: 216.49 Mbit/s

95th percentile per-packet one-way delay: 153.698 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-10-11 06:46:28

End at: 2017-10-11 06:46:58

Below is generated by plot.py at 2017-10-11 09:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.50 Mbit/s

95th percentile per-packet one-way delay: 236.656 ms

Loss rate: 2.09%

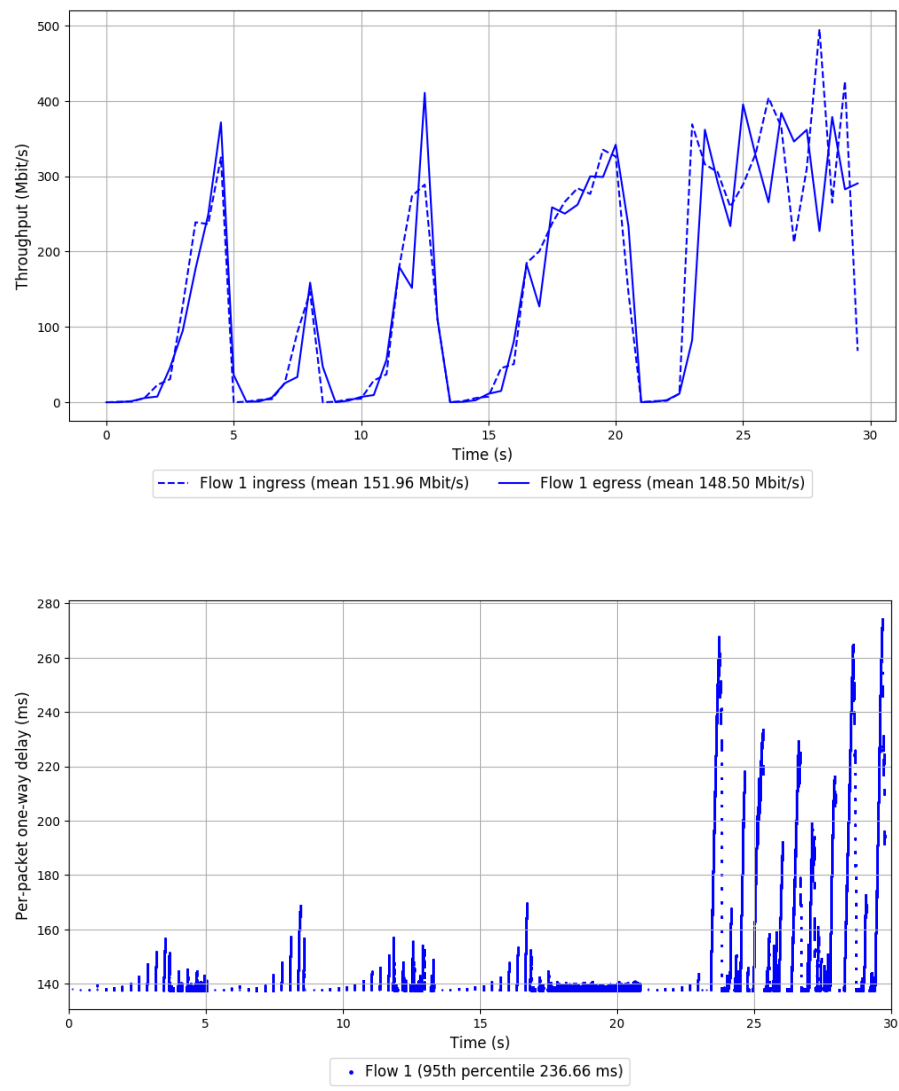
-- Flow 1:

Average throughput: 148.50 Mbit/s

95th percentile per-packet one-way delay: 236.656 ms

Loss rate: 2.09%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-10-11 06:58:27

End at: 2017-10-11 06:58:57

Below is generated by plot.py at 2017-10-11 09:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.73 Mbit/s

95th percentile per-packet one-way delay: 160.841 ms

Loss rate: 0.00%

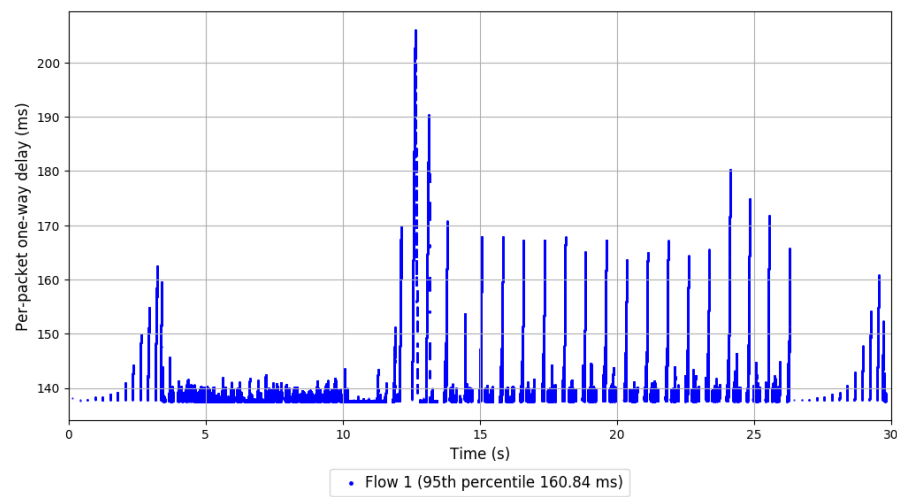
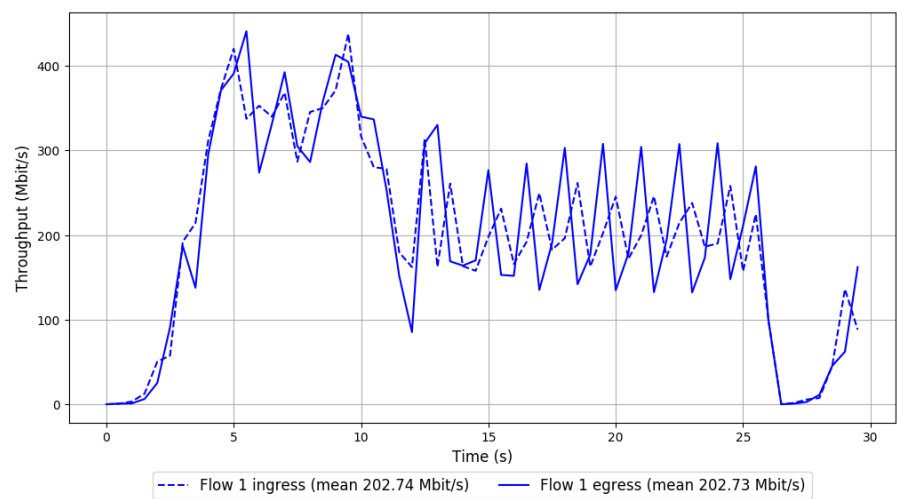
-- Flow 1:

Average throughput: 202.73 Mbit/s

95th percentile per-packet one-way delay: 160.841 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-10-11 07:10:24

End at: 2017-10-11 07:10:54

Below is generated by plot.py at 2017-10-11 09:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.49 Mbit/s

95th percentile per-packet one-way delay: 146.303 ms

Loss rate: 0.00%

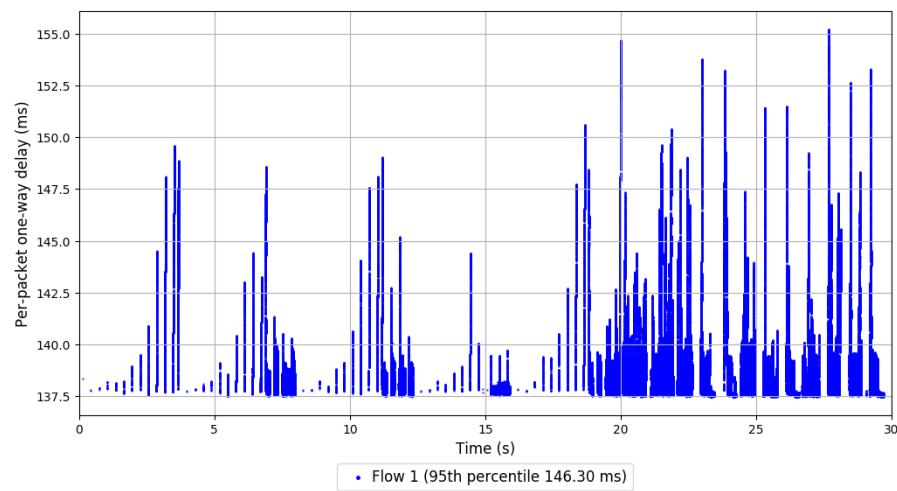
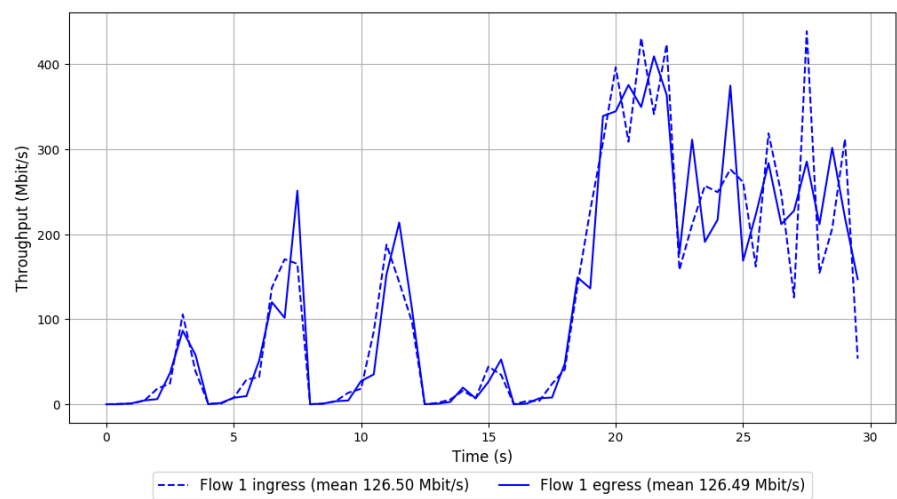
-- Flow 1:

Average throughput: 126.49 Mbit/s

95th percentile per-packet one-way delay: 146.303 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-10-11 07:21:59

End at: 2017-10-11 07:22:29

Below is generated by plot.py at 2017-10-11 09:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.88 Mbit/s

95th percentile per-packet one-way delay: 171.600 ms

Loss rate: 0.00%

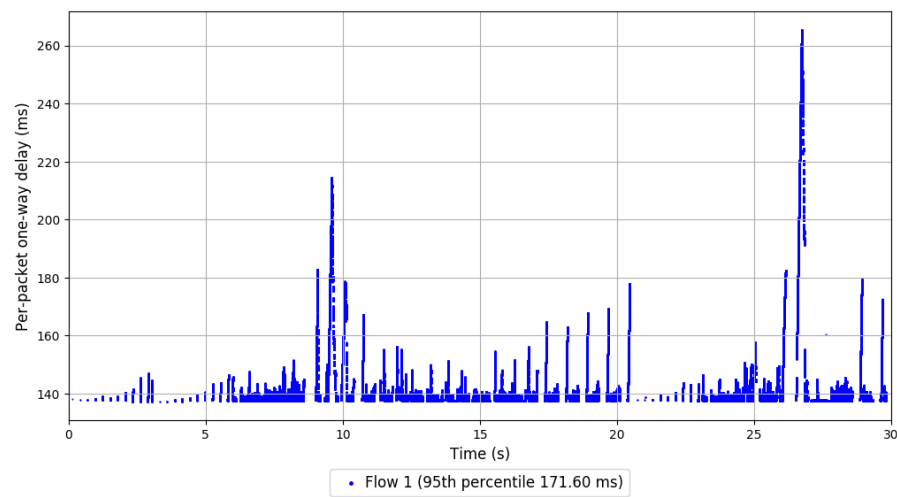
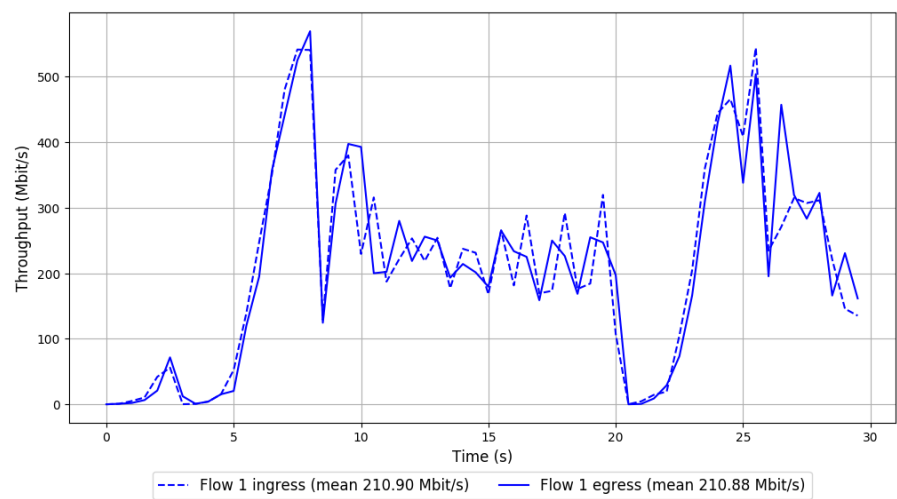
-- Flow 1:

Average throughput: 210.88 Mbit/s

95th percentile per-packet one-way delay: 171.600 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-10-11 07:34:04

End at: 2017-10-11 07:34:34

Below is generated by plot.py at 2017-10-11 09:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.84 Mbit/s

95th percentile per-packet one-way delay: 144.273 ms

Loss rate: 0.00%

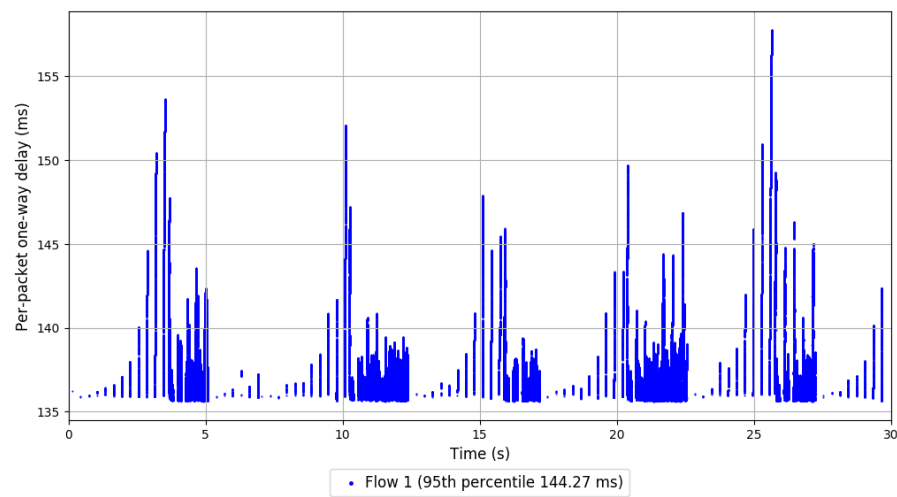
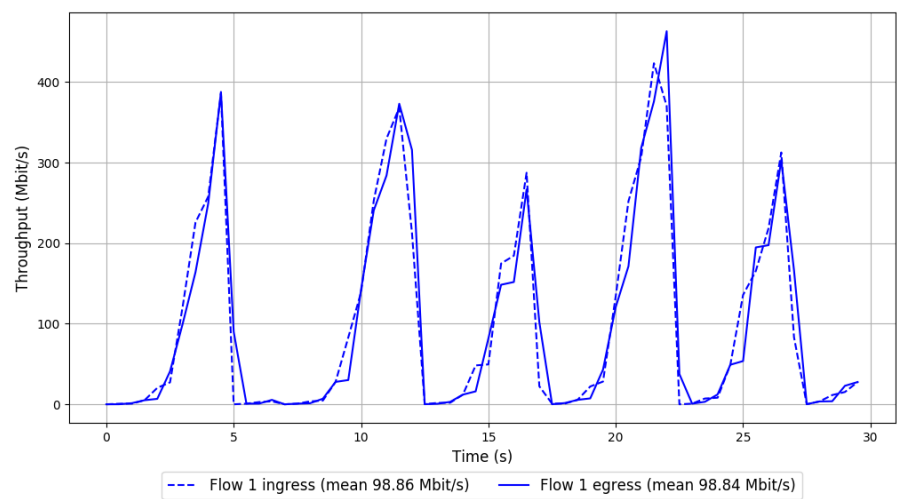
-- Flow 1:

Average throughput: 98.84 Mbit/s

95th percentile per-packet one-way delay: 144.273 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-10-11 07:45:55

End at: 2017-10-11 07:46:25

Below is generated by plot.py at 2017-10-11 09:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.86 Mbit/s

95th percentile per-packet one-way delay: 143.704 ms

Loss rate: 0.00%

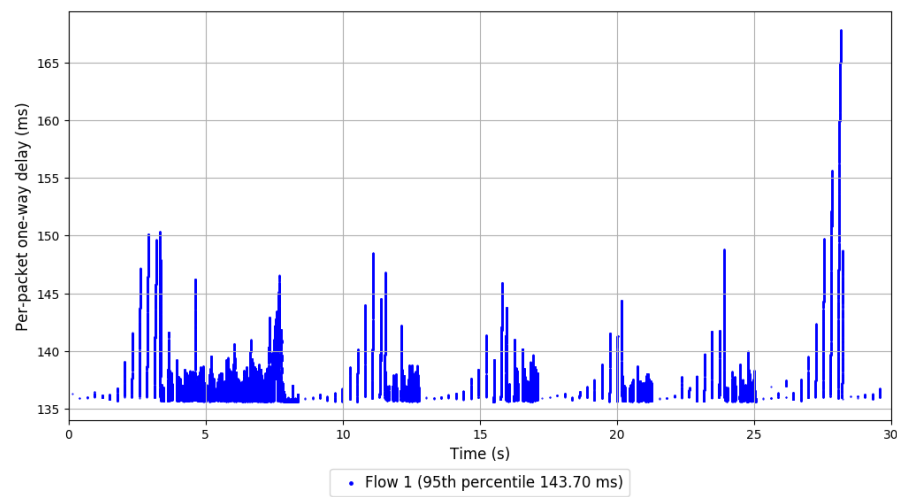
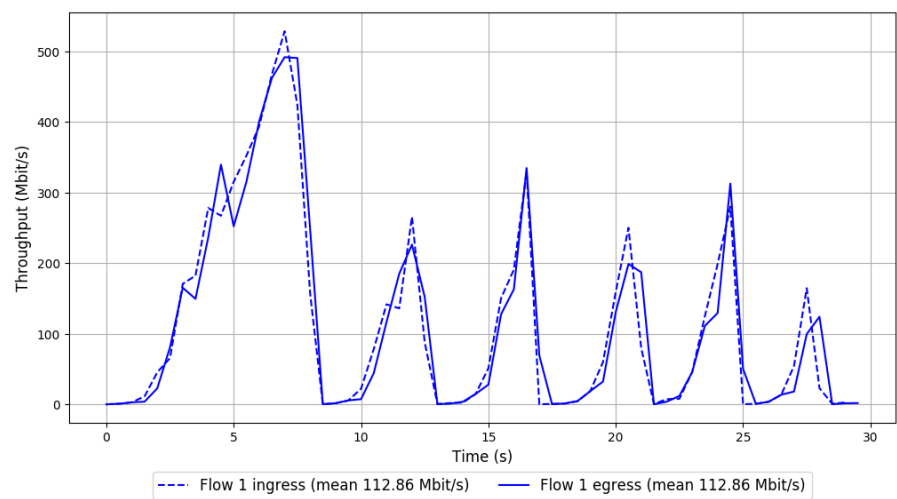
-- Flow 1:

Average throughput: 112.86 Mbit/s

95th percentile per-packet one-way delay: 143.704 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-10-11 07:57:29

End at: 2017-10-11 07:57:59

Below is generated by plot.py at 2017-10-11 09:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 137.88 Mbit/s

95th percentile per-packet one-way delay: 166.248 ms

Loss rate: 0.00%

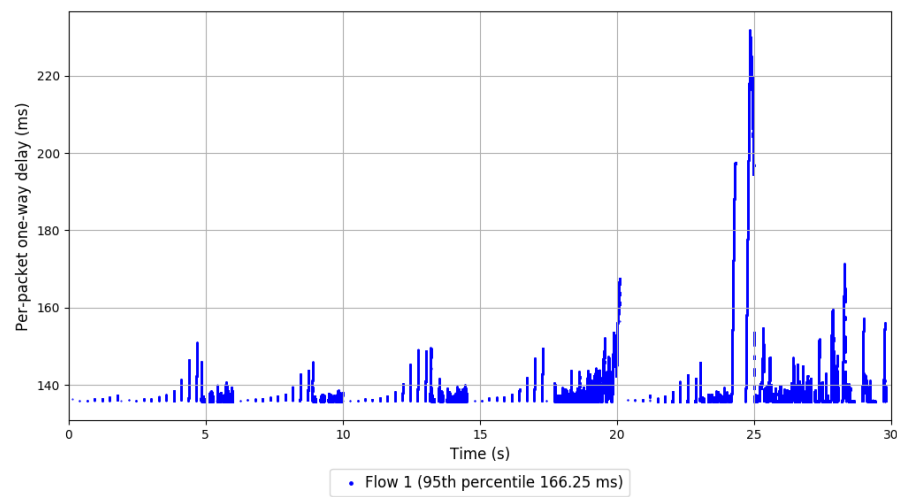
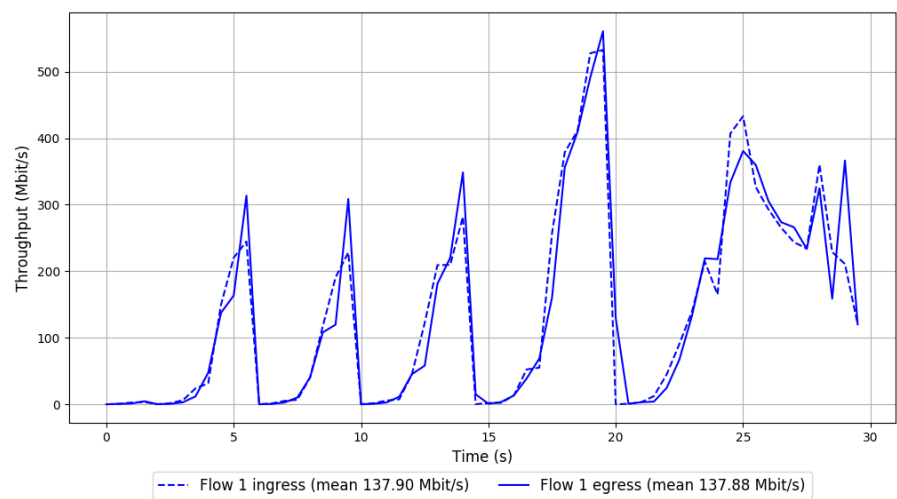
-- Flow 1:

Average throughput: 137.88 Mbit/s

95th percentile per-packet one-way delay: 166.248 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-10-11 08:09:32

End at: 2017-10-11 08:10:02

Below is generated by plot.py at 2017-10-11 09:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.67 Mbit/s

95th percentile per-packet one-way delay: 157.576 ms

Loss rate: 0.00%

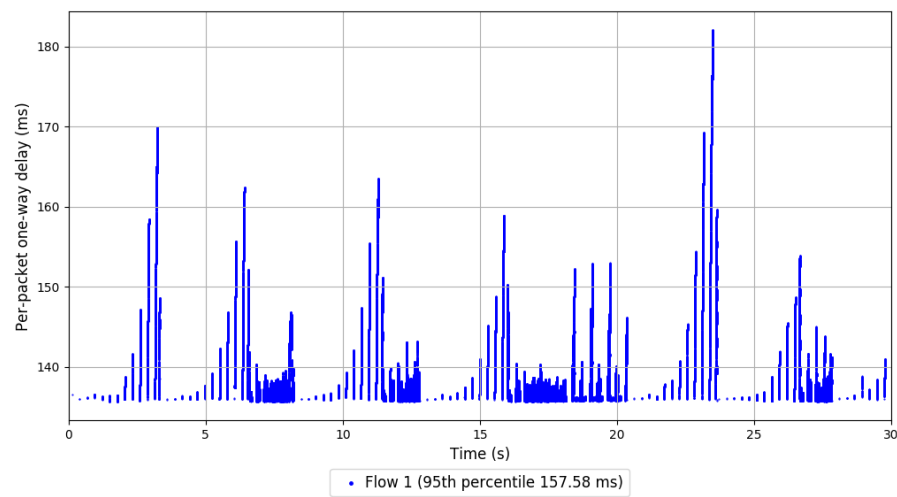
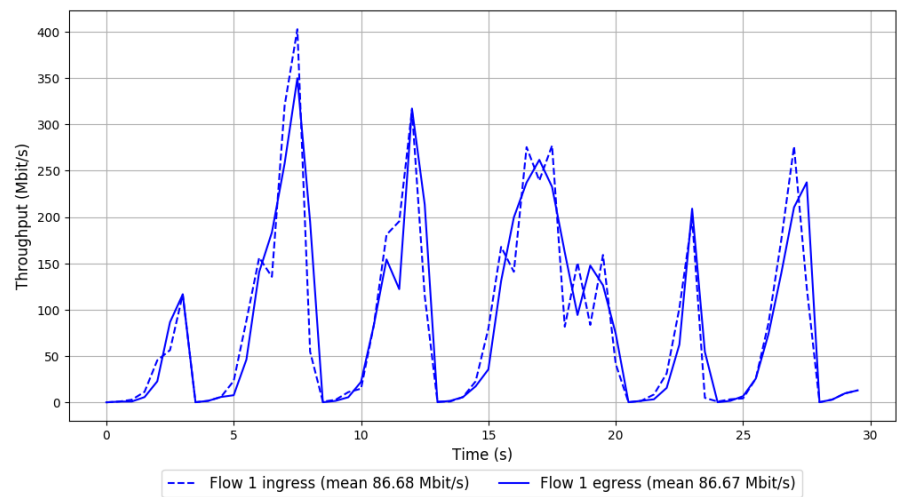
-- Flow 1:

Average throughput: 86.67 Mbit/s

95th percentile per-packet one-way delay: 157.576 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link

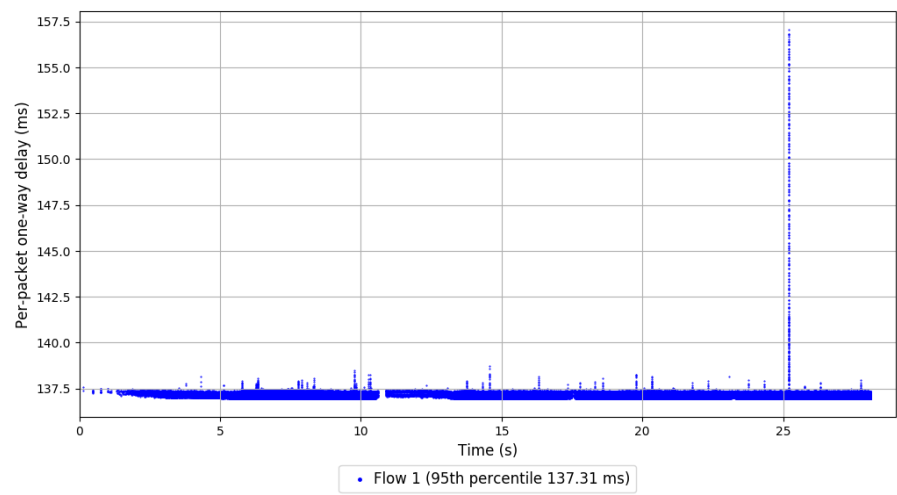
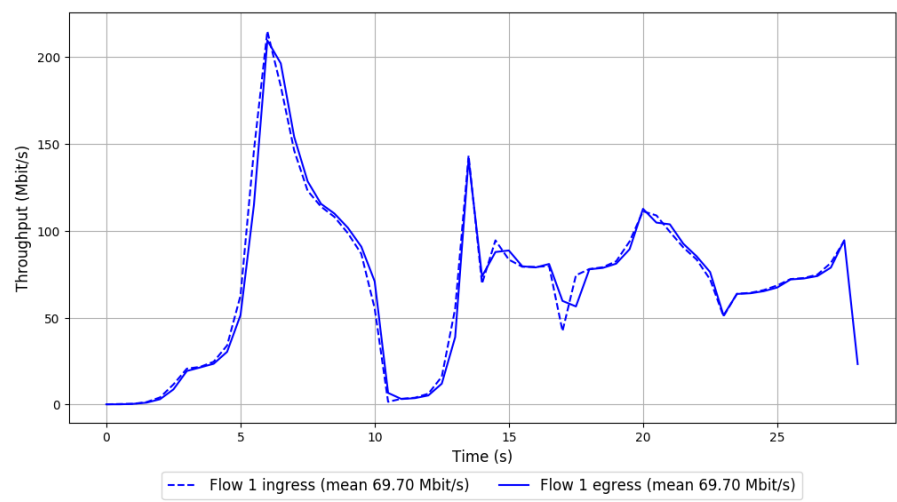


```
Run 1: Statistics of Copa

Start at: 2017-10-11 06:26:03
End at: 2017-10-11 06:26:33

# Below is generated by plot.py at 2017-10-11 09:18:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.70 Mbit/s
95th percentile per-packet one-way delay: 137.309 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.70 Mbit/s
95th percentile per-packet one-way delay: 137.309 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link

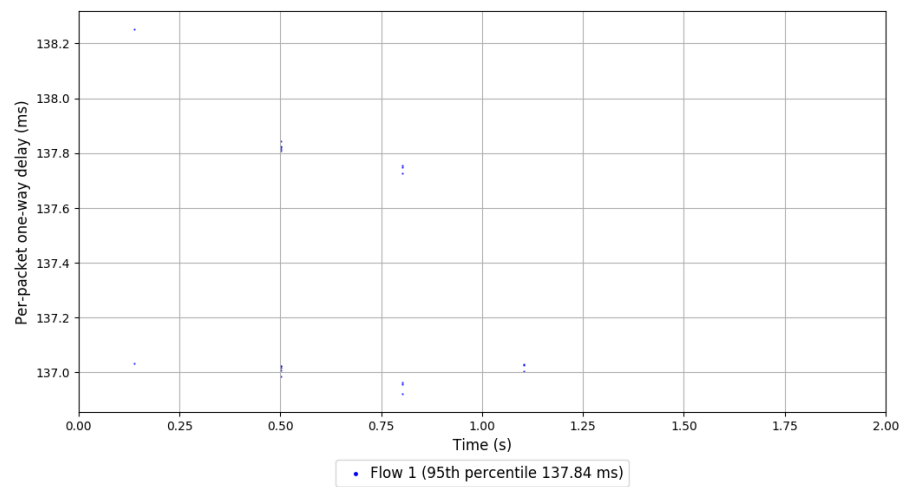
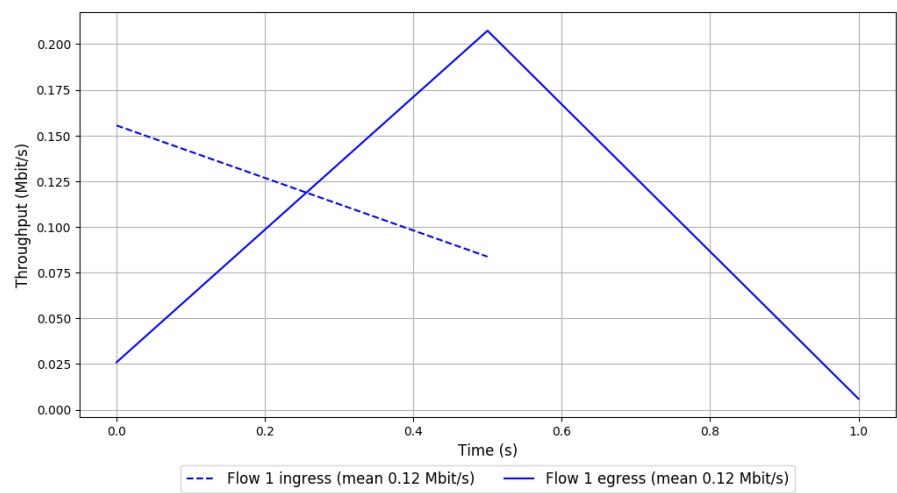


Run 2: Statistics of Copa

Start at: 2017-10-11 06:38:09

End at: 2017-10-11 06:38:39

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-10-11 06:50:00

End at: 2017-10-11 06:50:30

Below is generated by plot.py at 2017-10-11 09:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.03 Mbit/s

95th percentile per-packet one-way delay: 137.546 ms

Loss rate: 0.00%

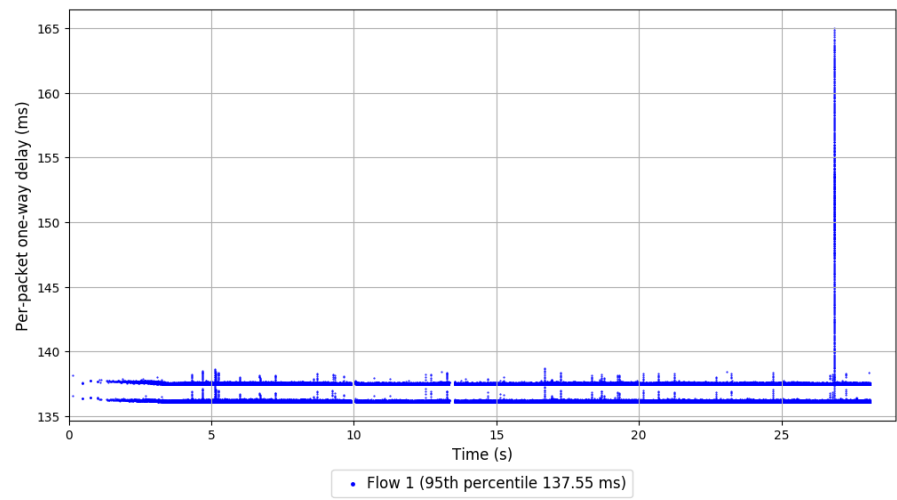
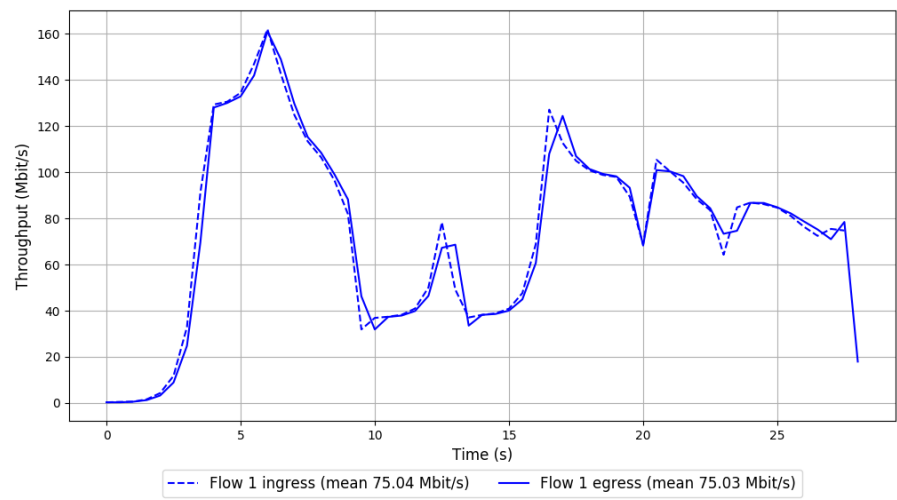
-- Flow 1:

Average throughput: 75.03 Mbit/s

95th percentile per-packet one-way delay: 137.546 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-10-11 07:02:06

End at: 2017-10-11 07:02:36

Below is generated by plot.py at 2017-10-11 09:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.03 Mbit/s

95th percentile per-packet one-way delay: 163.197 ms

Loss rate: 0.00%

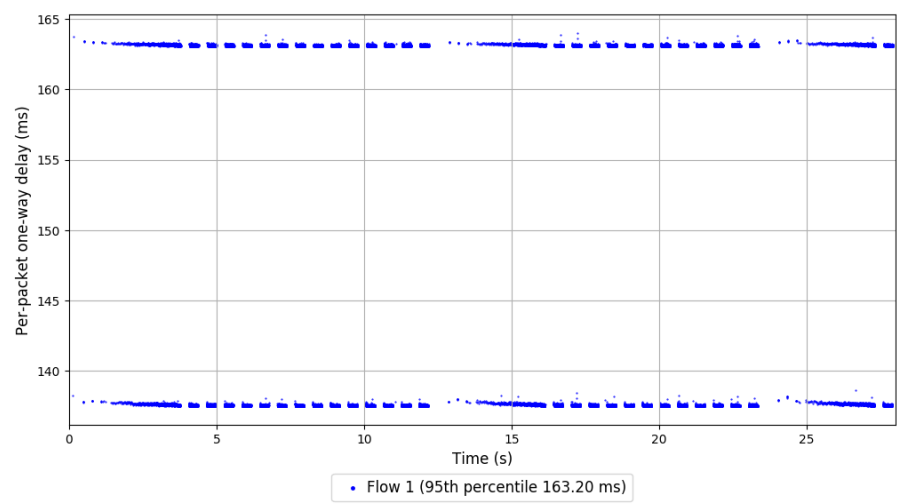
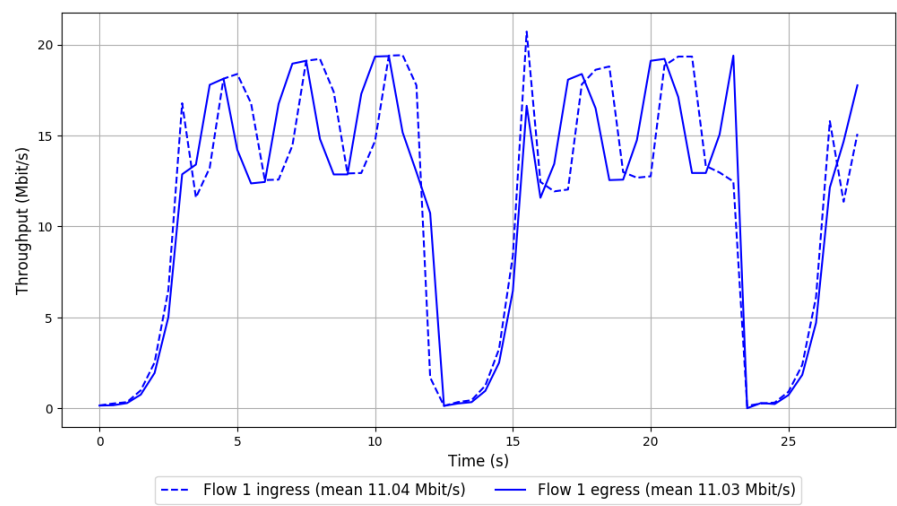
-- Flow 1:

Average throughput: 11.03 Mbit/s

95th percentile per-packet one-way delay: 163.197 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-10-11 07:13:57

End at: 2017-10-11 07:14:27

Below is generated by plot.py at 2017-10-11 09:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.91 Mbit/s

95th percentile per-packet one-way delay: 162.890 ms

Loss rate: 0.00%

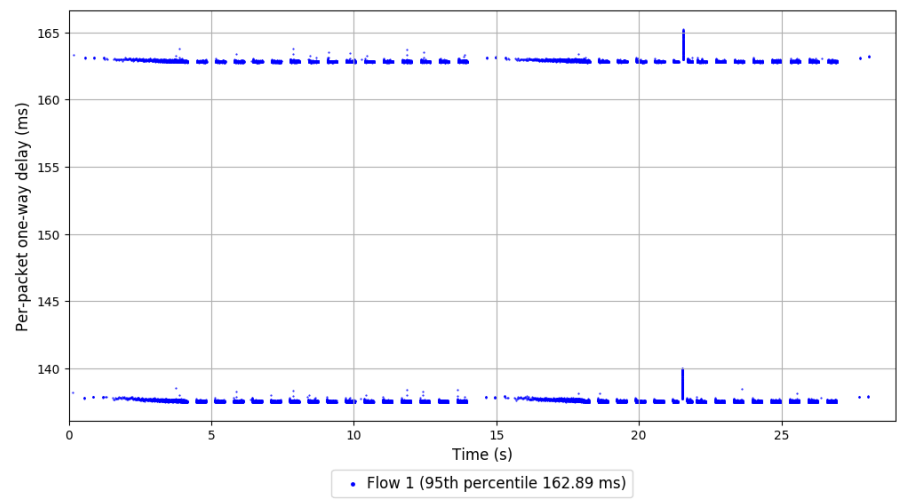
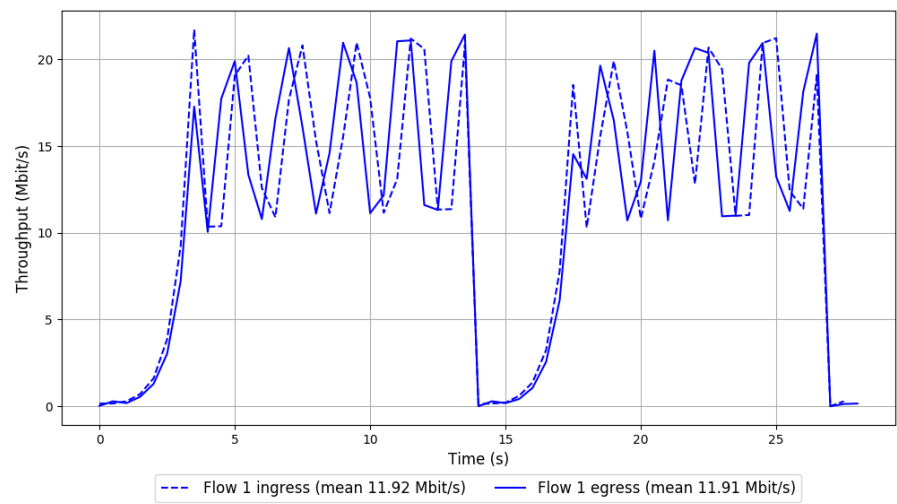
-- Flow 1:

Average throughput: 11.91 Mbit/s

95th percentile per-packet one-way delay: 162.890 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-10-11 07:25:35

End at: 2017-10-11 07:26:05

Below is generated by plot.py at 2017-10-11 09:18:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.44 Mbit/s

95th percentile per-packet one-way delay: 136.834 ms

Loss rate: 0.00%

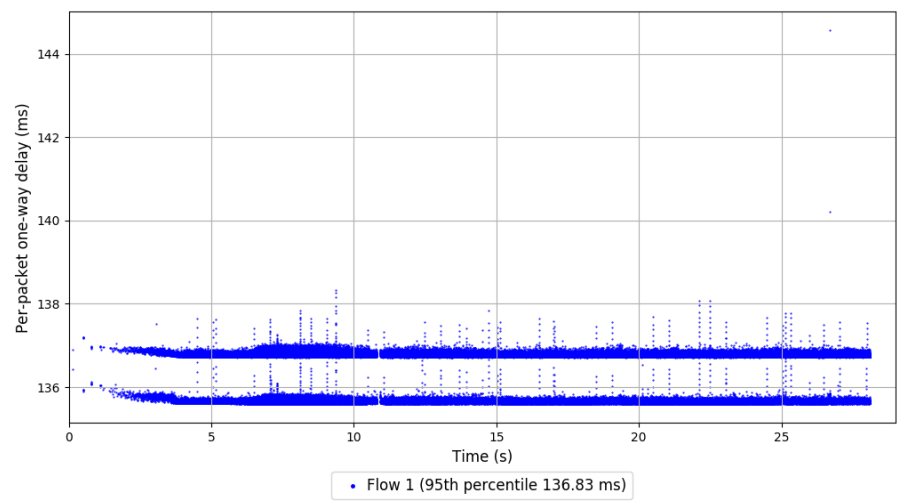
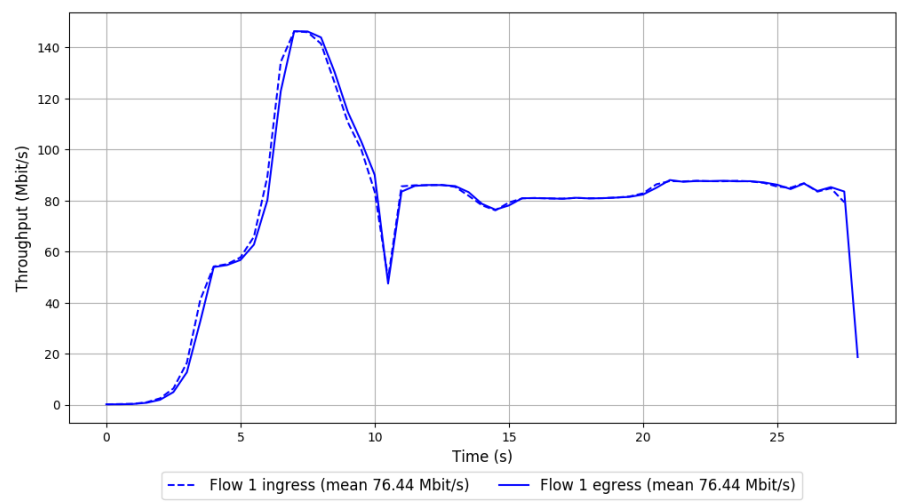
-- Flow 1:

Average throughput: 76.44 Mbit/s

95th percentile per-packet one-way delay: 136.834 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-10-11 07:37:35

End at: 2017-10-11 07:38:05

Below is generated by plot.py at 2017-10-11 09:18:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.47 Mbit/s

95th percentile per-packet one-way delay: 135.715 ms

Loss rate: 0.00%

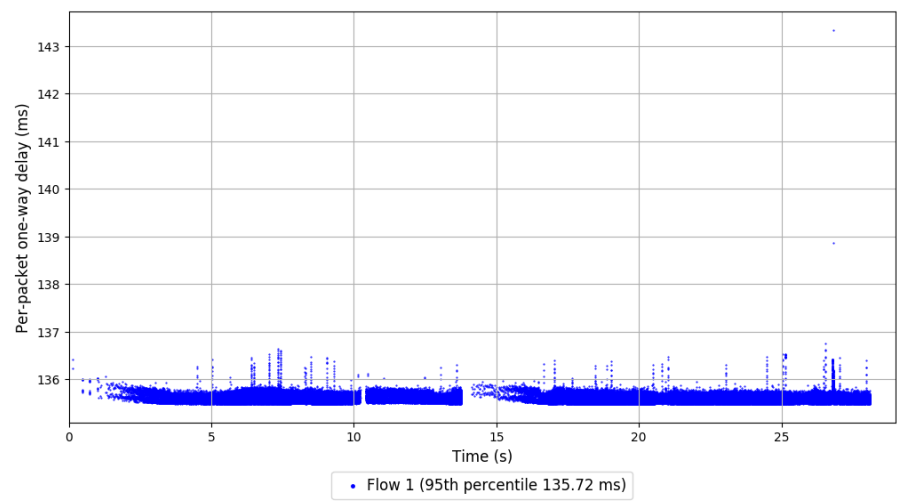
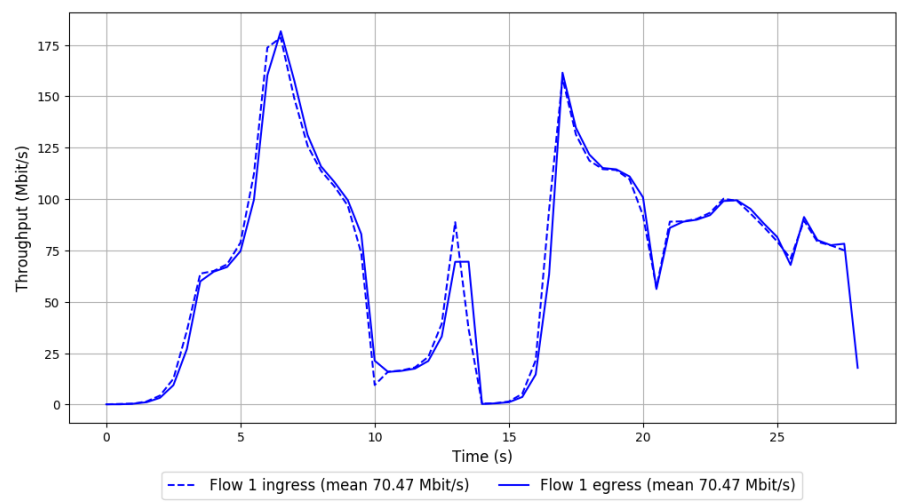
-- Flow 1:

Average throughput: 70.47 Mbit/s

95th percentile per-packet one-way delay: 135.715 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-10-11 07:49:26

End at: 2017-10-11 07:49:56

Below is generated by plot.py at 2017-10-11 09:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.56 Mbit/s

95th percentile per-packet one-way delay: 137.724 ms

Loss rate: 0.00%

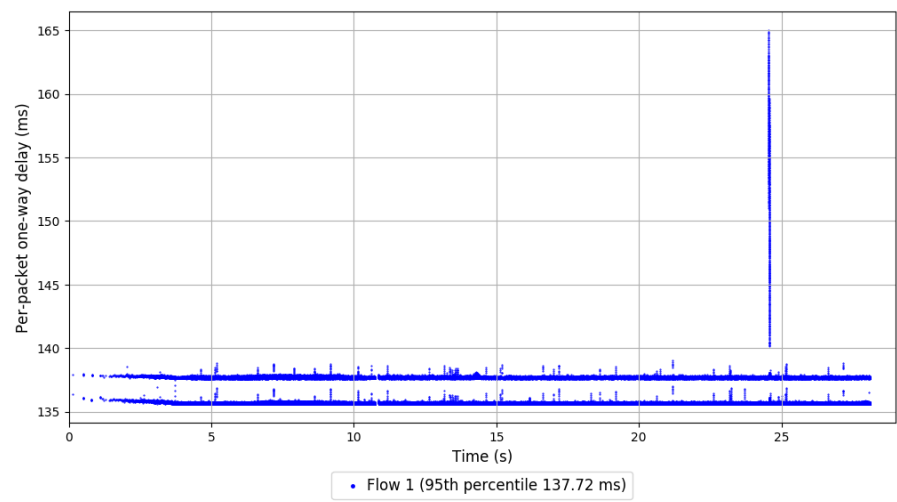
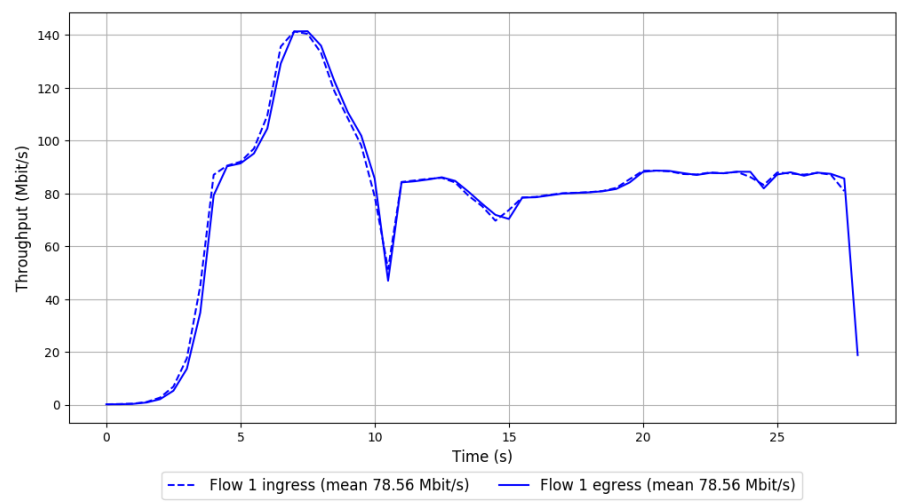
-- Flow 1:

Average throughput: 78.56 Mbit/s

95th percentile per-packet one-way delay: 137.724 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-10-11 08:01:05

End at: 2017-10-11 08:01:35

Below is generated by plot.py at 2017-10-11 09:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.77 Mbit/s

95th percentile per-packet one-way delay: 136.313 ms

Loss rate: 0.00%

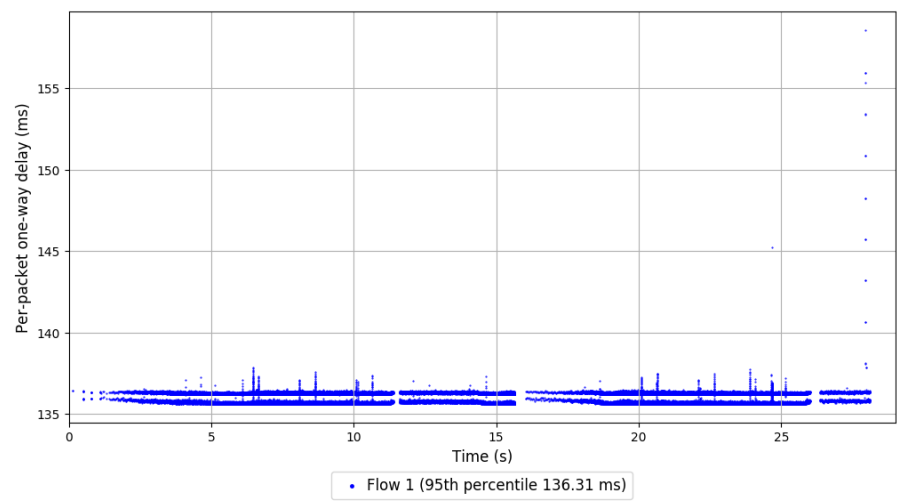
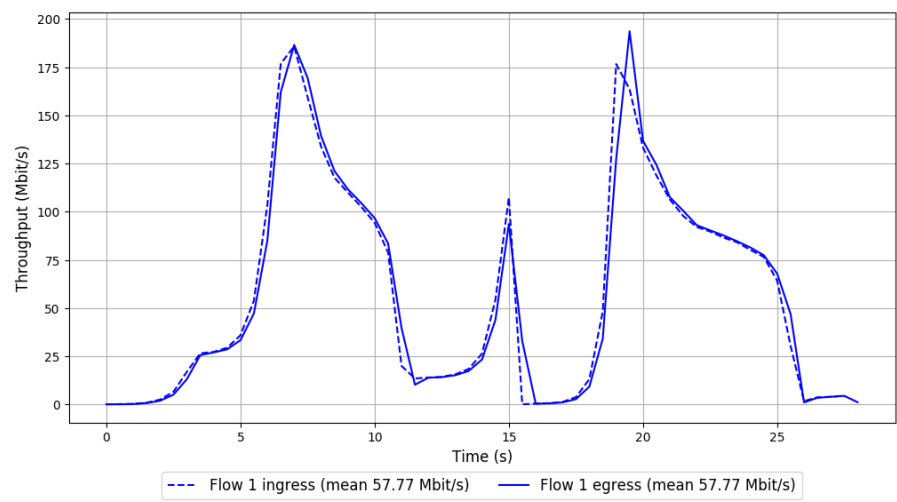
-- Flow 1:

Average throughput: 57.77 Mbit/s

95th percentile per-packet one-way delay: 136.313 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link

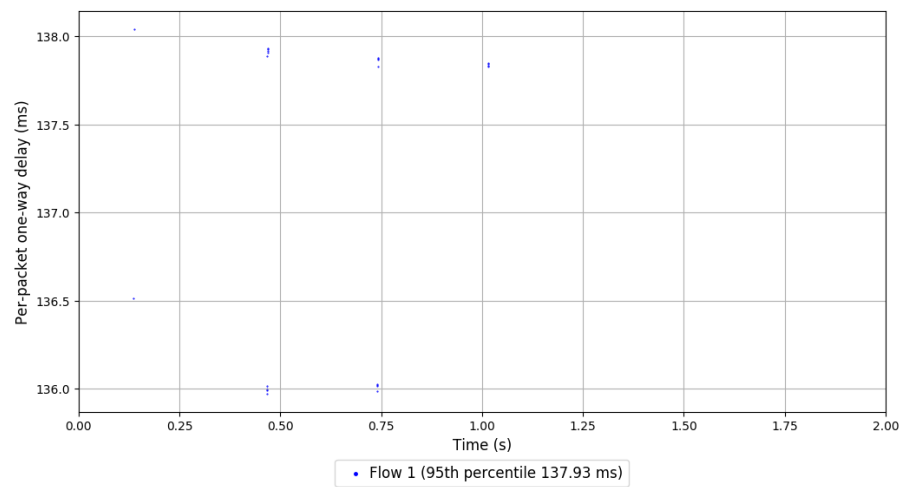
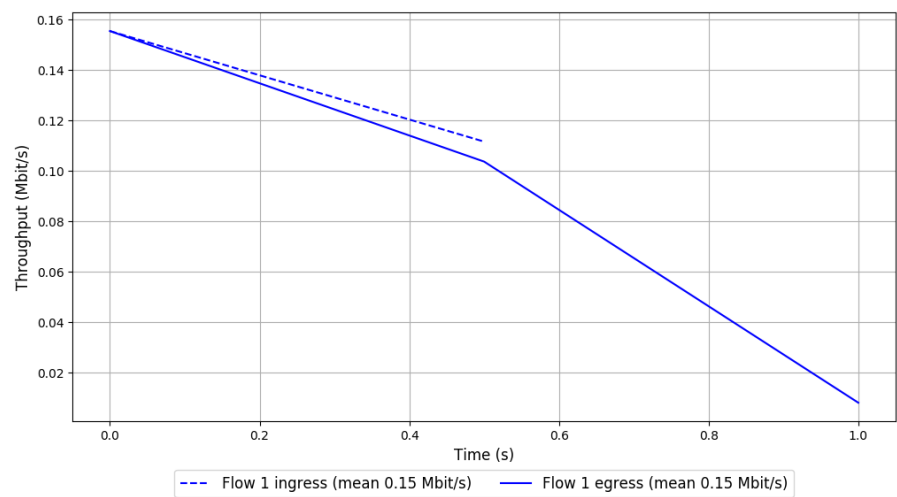


Run 10: Statistics of Copa

Start at: 2017-10-11 08:12:59

End at: 2017-10-11 08:13:29

Run 10: Report of Copa — Data Link

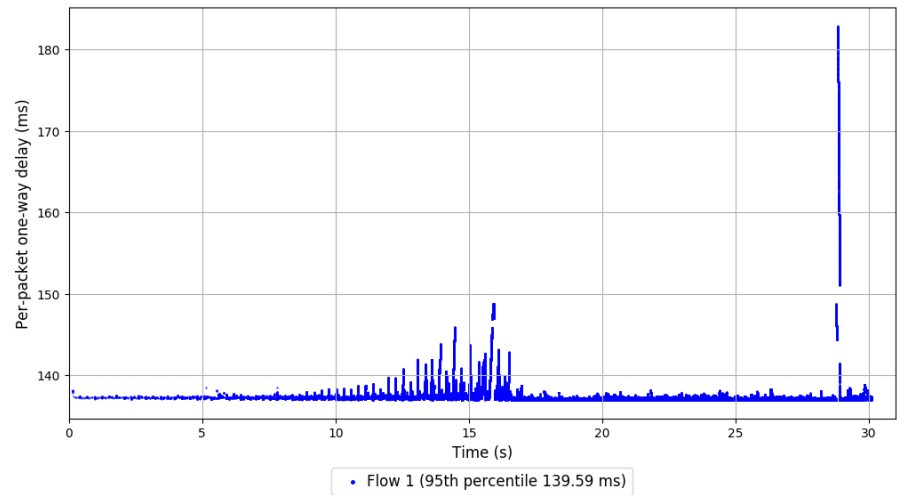
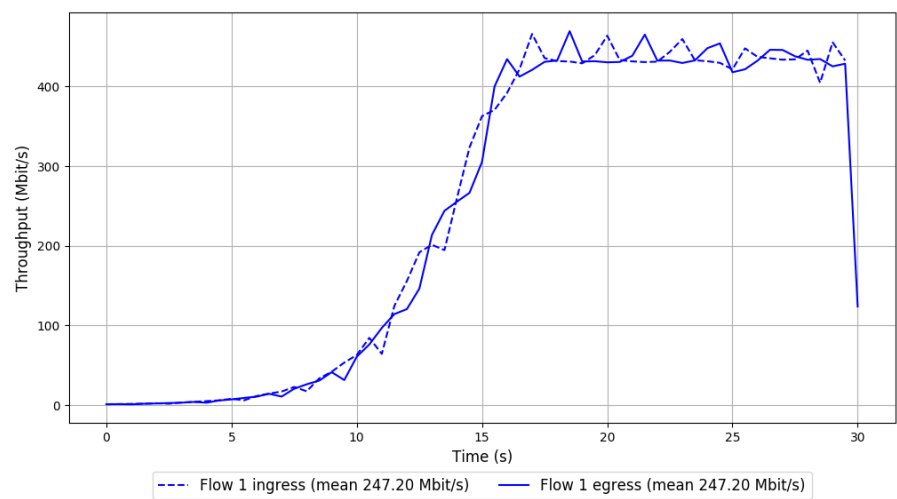


```
Run 1: Statistics of CalibratedKoho

Start at: 2017-10-11 06:17:39
End at: 2017-10-11 06:18:09

# Below is generated by plot.py at 2017-10-11 09:21:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 247.20 Mbit/s
95th percentile per-packet one-way delay: 139.588 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 247.20 Mbit/s
95th percentile per-packet one-way delay: 139.588 ms
Loss rate: 0.00%
```


Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: 2017-10-11 06:29:20

End at: 2017-10-11 06:29:50

Below is generated by plot.py at 2017-10-11 09:21:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.03 Mbit/s

95th percentile per-packet one-way delay: 144.690 ms

Loss rate: 0.00%

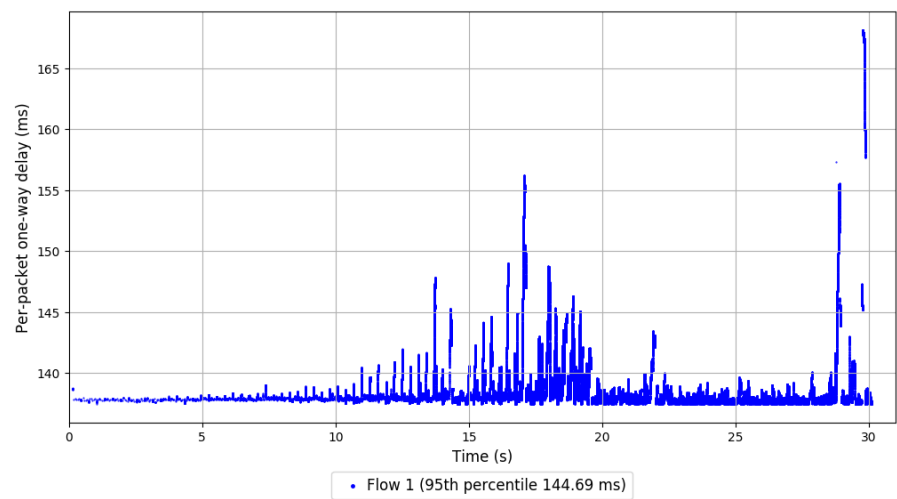
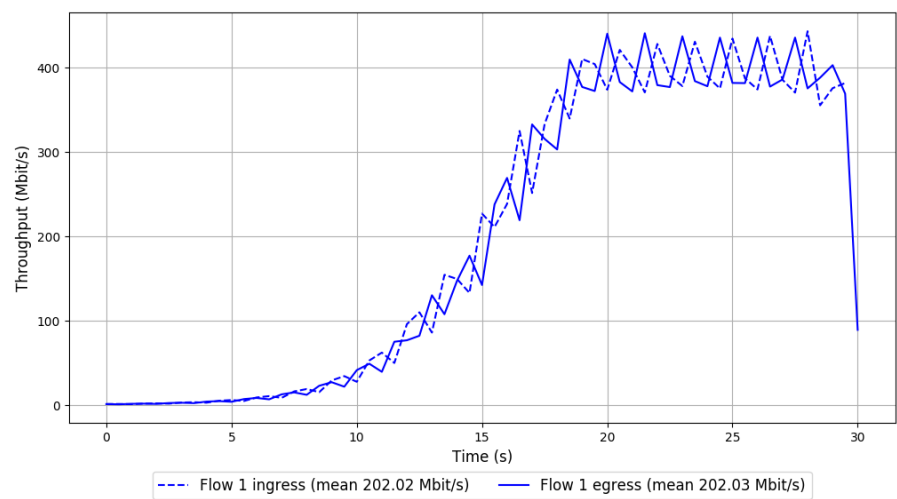
-- Flow 1:

Average throughput: 202.03 Mbit/s

95th percentile per-packet one-way delay: 144.690 ms

Loss rate: 0.00%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: 2017-10-11 06:41:18

End at: 2017-10-11 06:41:48

Below is generated by plot.py at 2017-10-11 09:21:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.74 Mbit/s

95th percentile per-packet one-way delay: 144.016 ms

Loss rate: 0.00%

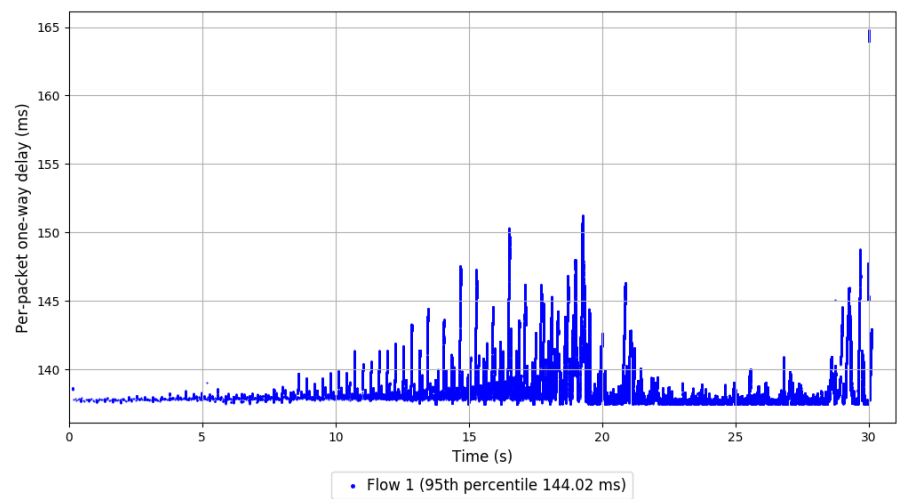
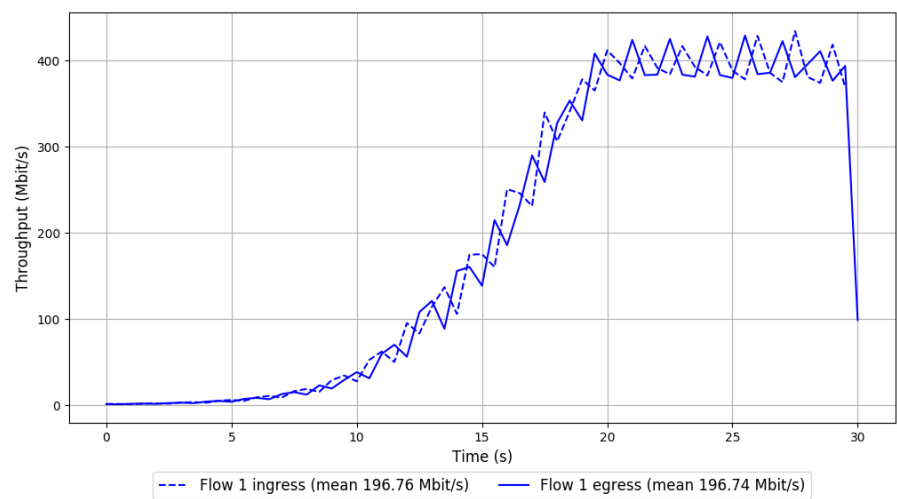
-- Flow 1:

Average throughput: 196.74 Mbit/s

95th percentile per-packet one-way delay: 144.016 ms

Loss rate: 0.00%

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: 2017-10-11 06:53:19

End at: 2017-10-11 06:53:49

Below is generated by plot.py at 2017-10-11 09:21:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.75 Mbit/s

95th percentile per-packet one-way delay: 144.599 ms

Loss rate: 0.00%

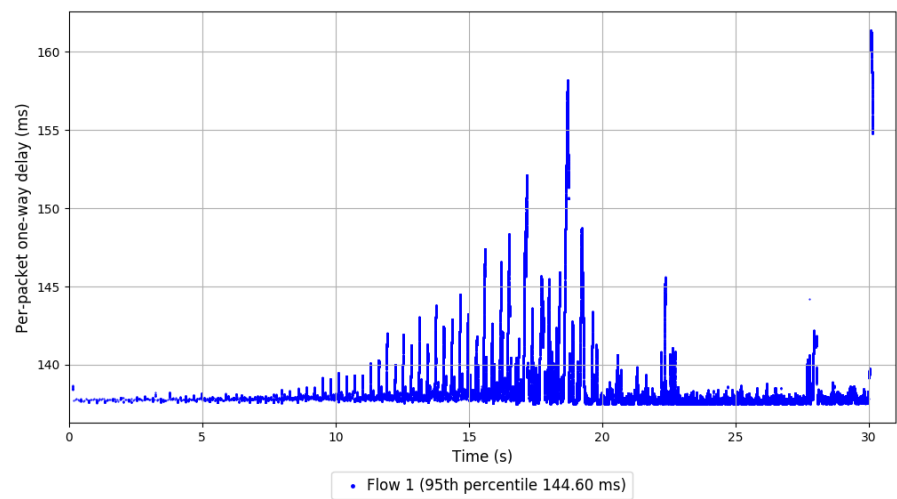
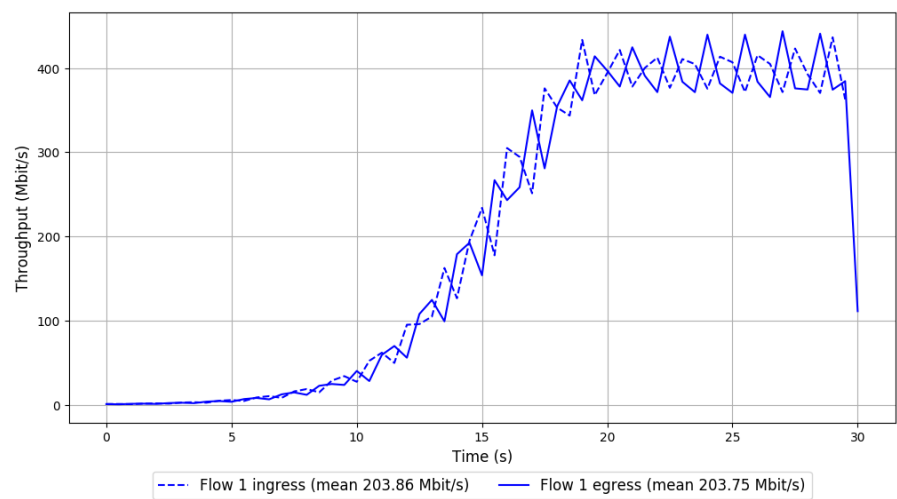
-- Flow 1:

Average throughput: 203.75 Mbit/s

95th percentile per-packet one-way delay: 144.599 ms

Loss rate: 0.00%

Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

Start at: 2017-10-11 07:05:13

End at: 2017-10-11 07:05:43

Below is generated by plot.py at 2017-10-11 09:22:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 238.24 Mbit/s

95th percentile per-packet one-way delay: 145.649 ms

Loss rate: 0.00%

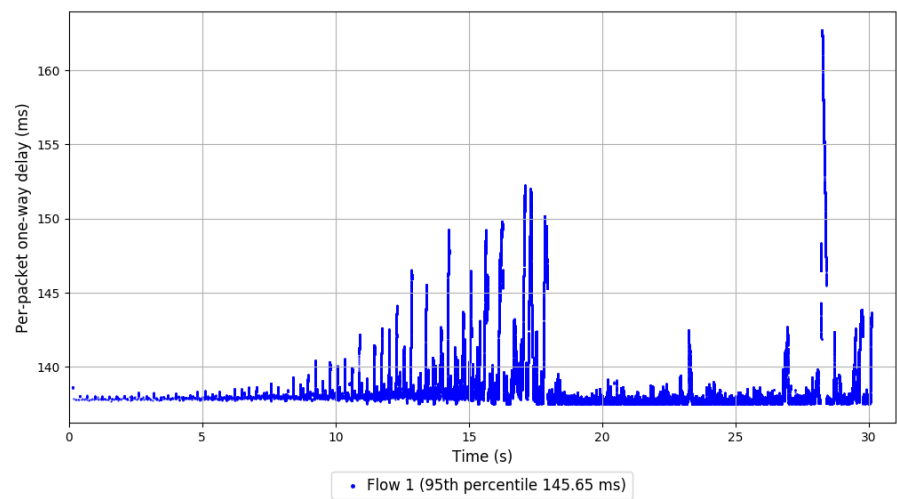
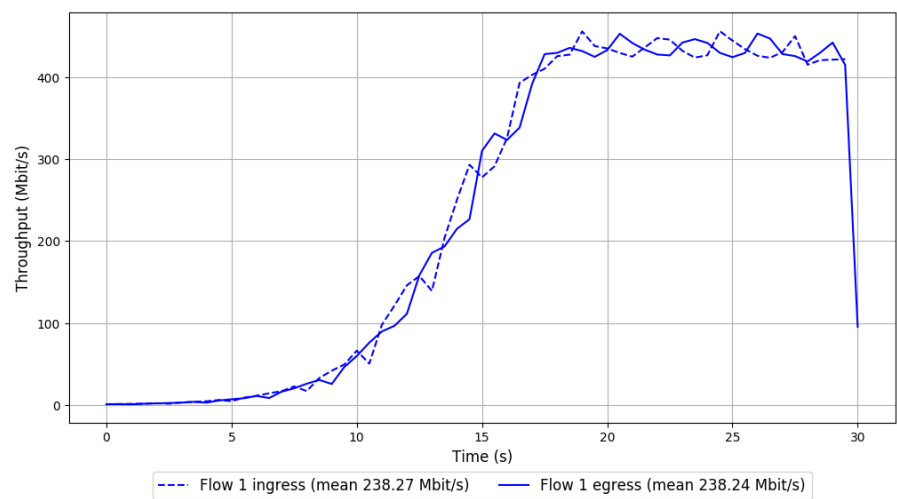
-- Flow 1:

Average throughput: 238.24 Mbit/s

95th percentile per-packet one-way delay: 145.649 ms

Loss rate: 0.00%

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: 2017-10-11 07:17:09

End at: 2017-10-11 07:17:39

Below is generated by plot.py at 2017-10-11 09:22:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.04 Mbit/s

95th percentile per-packet one-way delay: 139.481 ms

Loss rate: 0.05%

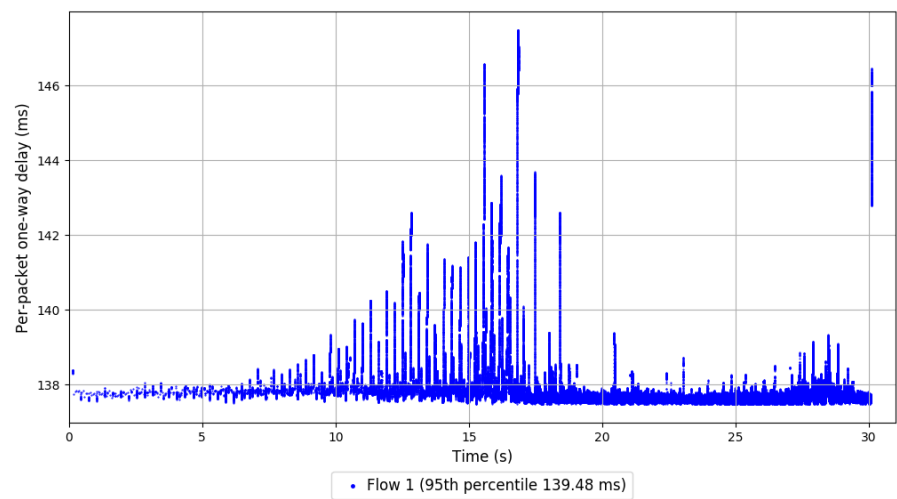
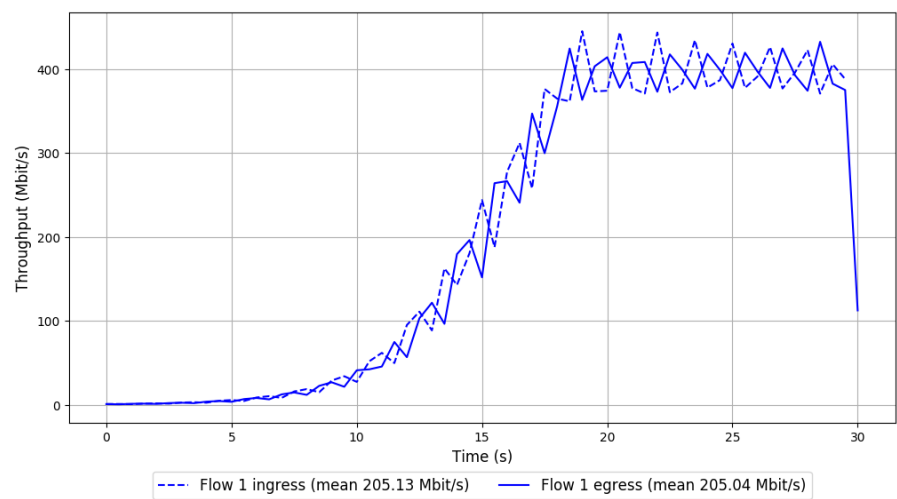
-- Flow 1:

Average throughput: 205.04 Mbit/s

95th percentile per-packet one-way delay: 139.481 ms

Loss rate: 0.05%

Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

Start at: 2017-10-11 07:28:51

End at: 2017-10-11 07:29:22

Below is generated by plot.py at 2017-10-11 09:22:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 248.96 Mbit/s

95th percentile per-packet one-way delay: 137.951 ms

Loss rate: 0.00%

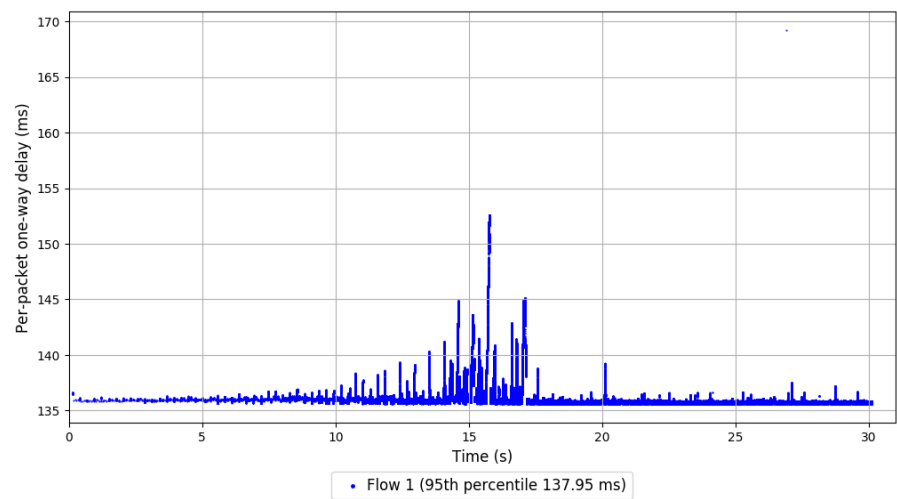
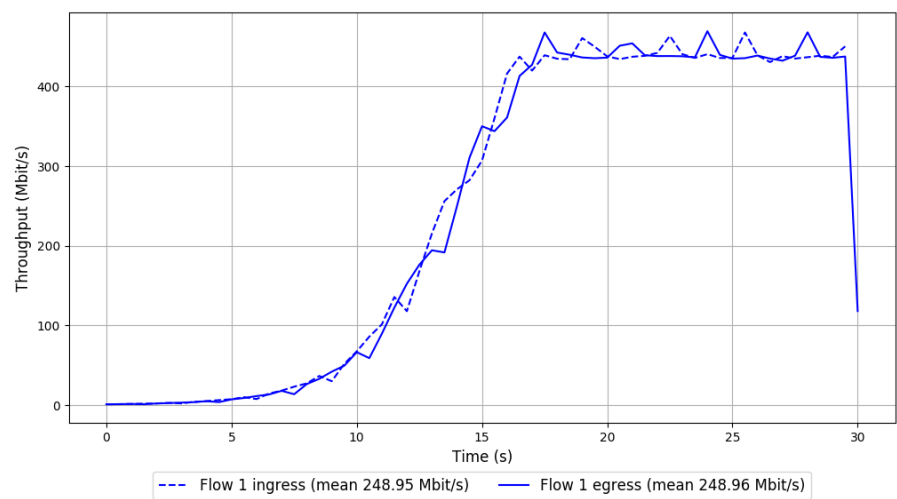
-- Flow 1:

Average throughput: 248.96 Mbit/s

95th percentile per-packet one-way delay: 137.951 ms

Loss rate: 0.00%

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: 2017-10-11 07:40:47

End at: 2017-10-11 07:41:17

Below is generated by plot.py at 2017-10-11 09:22:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.81 Mbit/s

95th percentile per-packet one-way delay: 139.592 ms

Loss rate: 0.00%

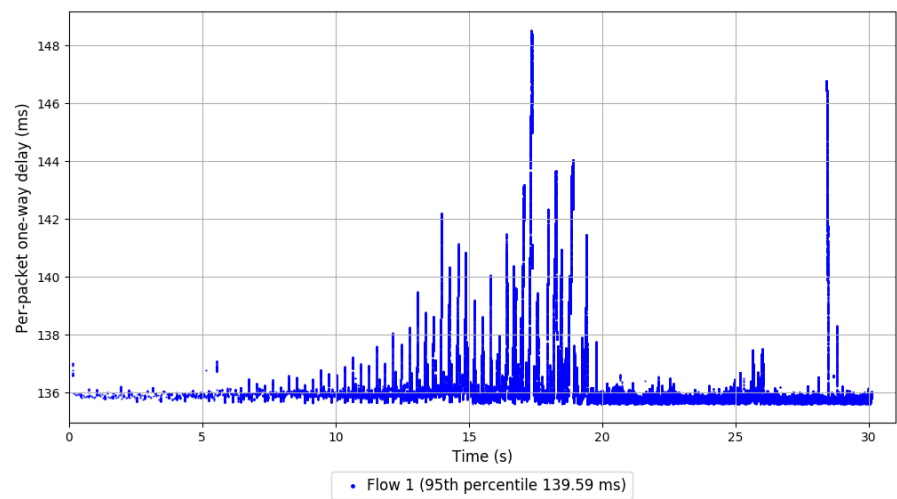
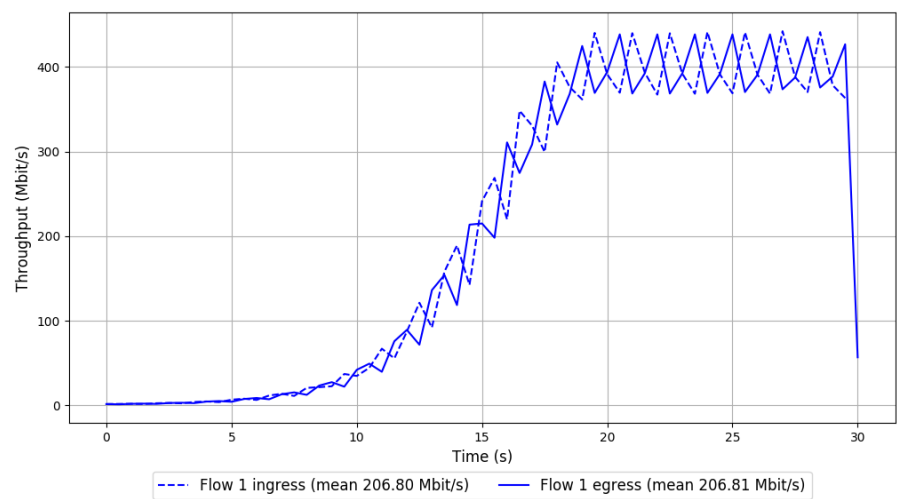
-- Flow 1:

Average throughput: 206.81 Mbit/s

95th percentile per-packet one-way delay: 139.592 ms

Loss rate: 0.00%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: 2017-10-11 07:52:44

End at: 2017-10-11 07:53:14

Below is generated by plot.py at 2017-10-11 09:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 242.88 Mbit/s

95th percentile per-packet one-way delay: 142.522 ms

Loss rate: 0.00%

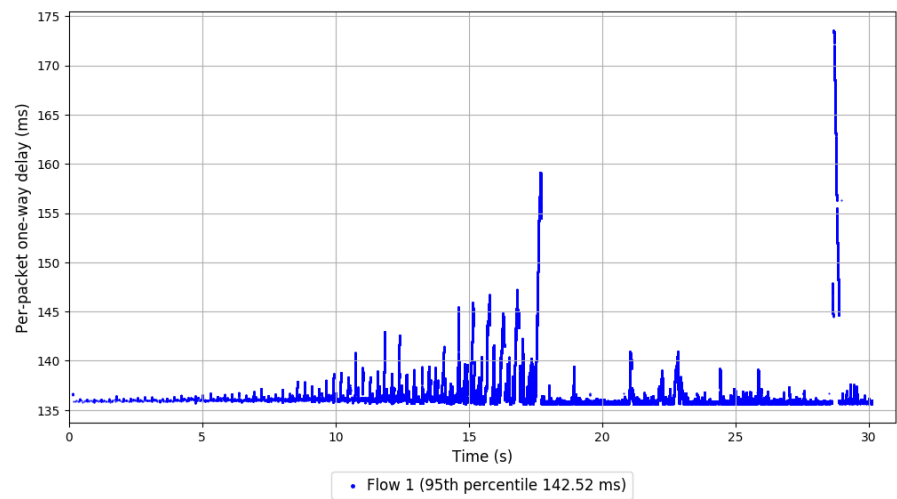
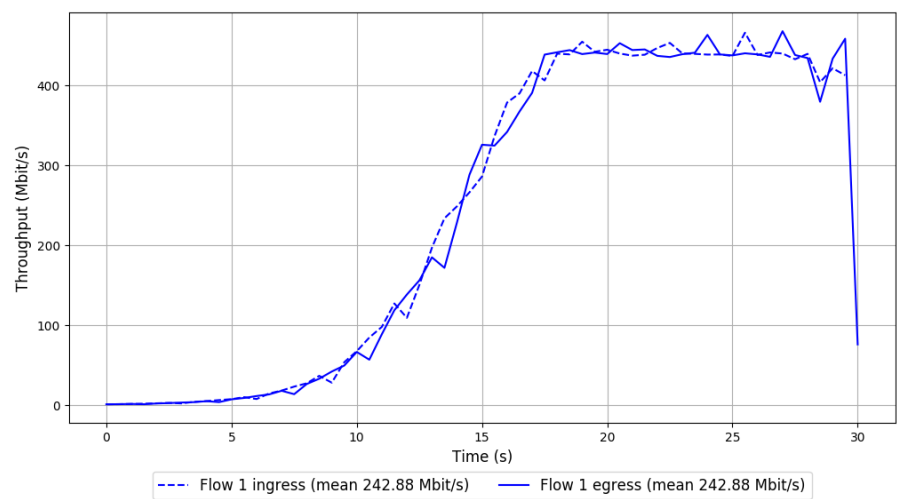
-- Flow 1:

Average throughput: 242.88 Mbit/s

95th percentile per-packet one-way delay: 142.522 ms

Loss rate: 0.00%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: 2017-10-11 08:04:21

End at: 2017-10-11 08:04:51

Below is generated by plot.py at 2017-10-11 09:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 244.54 Mbit/s

95th percentile per-packet one-way delay: 143.726 ms

Loss rate: 0.00%

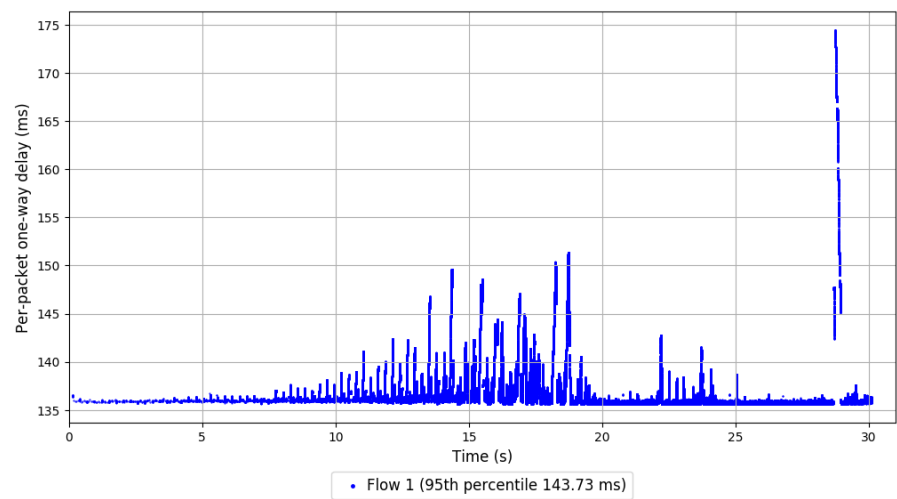
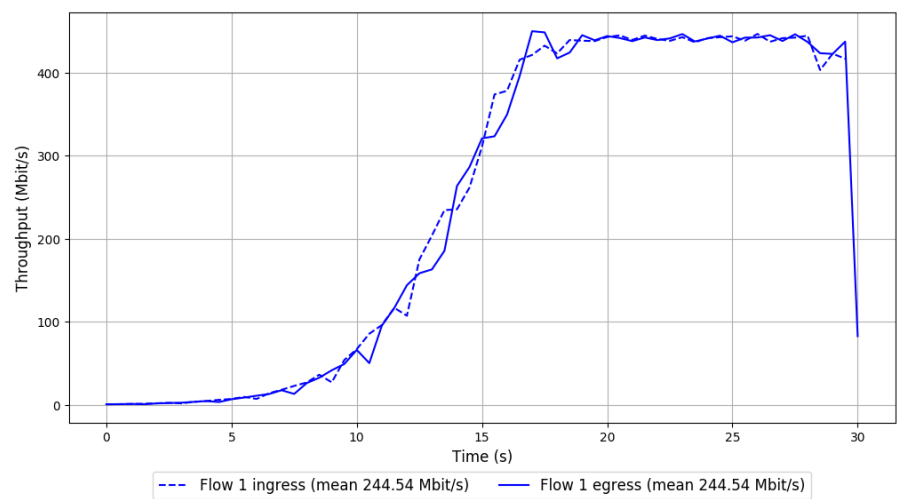
-- Flow 1:

Average throughput: 244.54 Mbit/s

95th percentile per-packet one-way delay: 143.726 ms

Loss rate: 0.00%

Run 10: Report of CalibratedKoho — Data Link

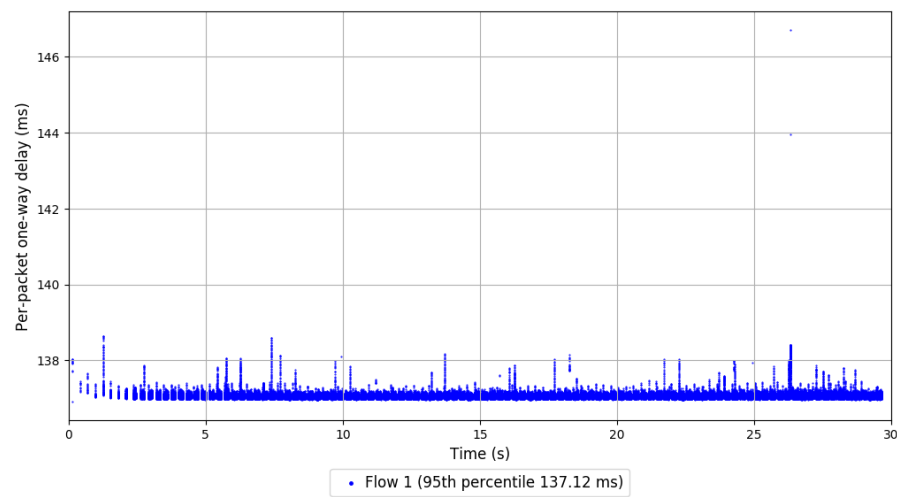
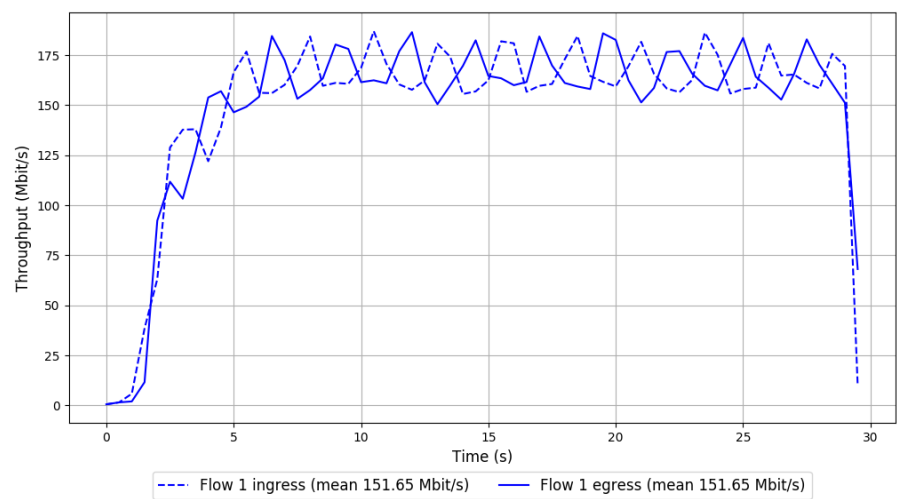


```
Run 1: Statistics of Indigo

Start at: 2017-10-11 06:16:01
End at: 2017-10-11 06:16:31

# Below is generated by plot.py at 2017-10-11 09:25:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 151.65 Mbit/s
95th percentile per-packet one-way delay: 137.117 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 151.65 Mbit/s
95th percentile per-packet one-way delay: 137.117 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-10-11 06:27:42

End at: 2017-10-11 06:28:12

Below is generated by plot.py at 2017-10-11 09:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.38 Mbit/s

95th percentile per-packet one-way delay: 137.598 ms

Loss rate: 0.00%

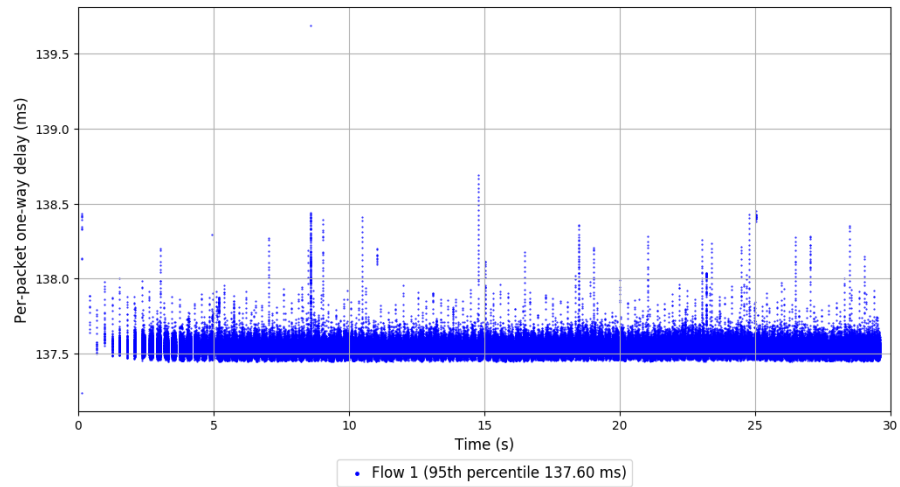
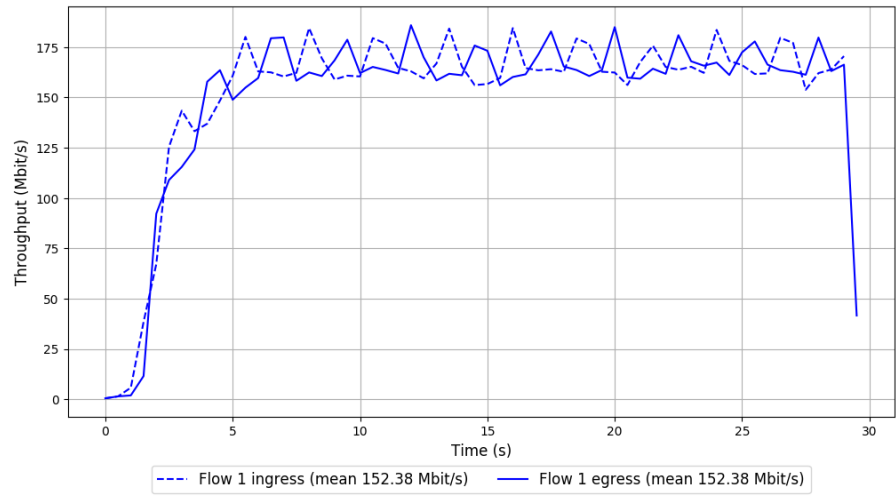
-- Flow 1:

Average throughput: 152.38 Mbit/s

95th percentile per-packet one-way delay: 137.598 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-10-11 06:39:40

End at: 2017-10-11 06:40:10

Below is generated by plot.py at 2017-10-11 09:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.58 Mbit/s

95th percentile per-packet one-way delay: 137.597 ms

Loss rate: 0.00%

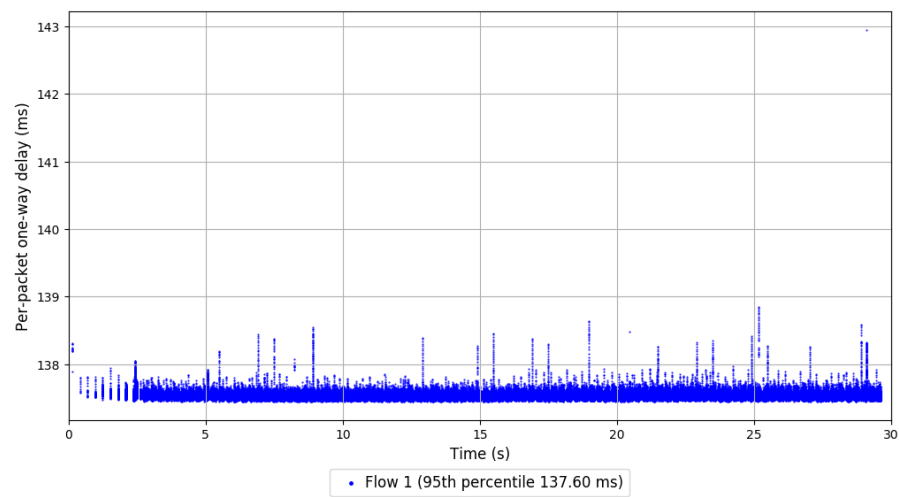
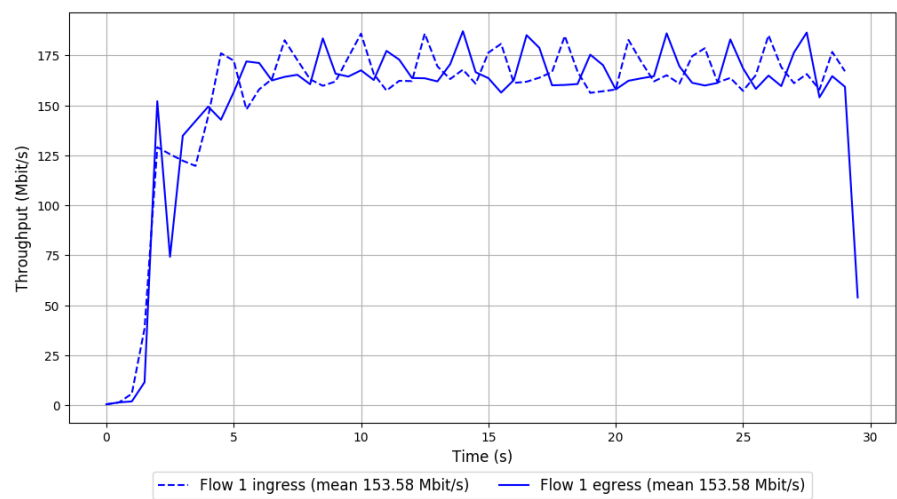
-- Flow 1:

Average throughput: 153.58 Mbit/s

95th percentile per-packet one-way delay: 137.597 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-10-11 06:51:41

End at: 2017-10-11 06:52:11

Below is generated by plot.py at 2017-10-11 09:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.28 Mbit/s

95th percentile per-packet one-way delay: 137.607 ms

Loss rate: 0.00%

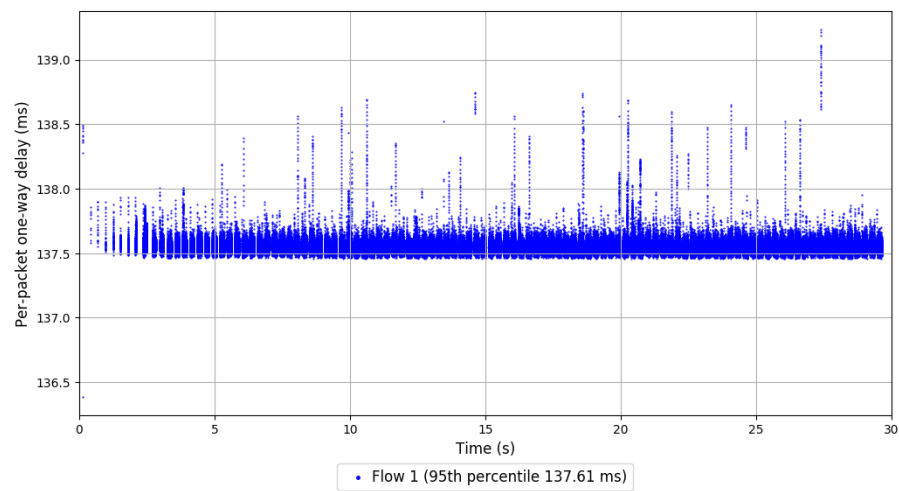
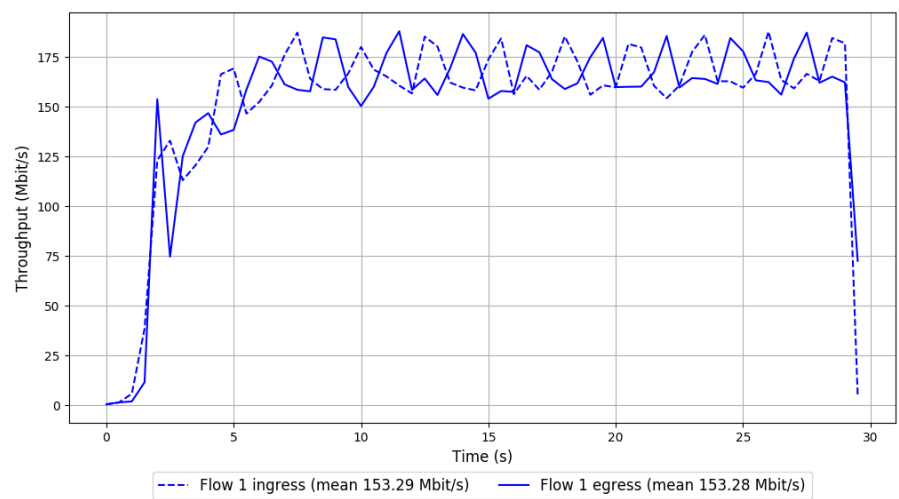
-- Flow 1:

Average throughput: 153.28 Mbit/s

95th percentile per-packet one-way delay: 137.607 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-10-11 07:03:35

End at: 2017-10-11 07:04:05

Below is generated by plot.py at 2017-10-11 09:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 144.69 Mbit/s

95th percentile per-packet one-way delay: 137.612 ms

Loss rate: 0.00%

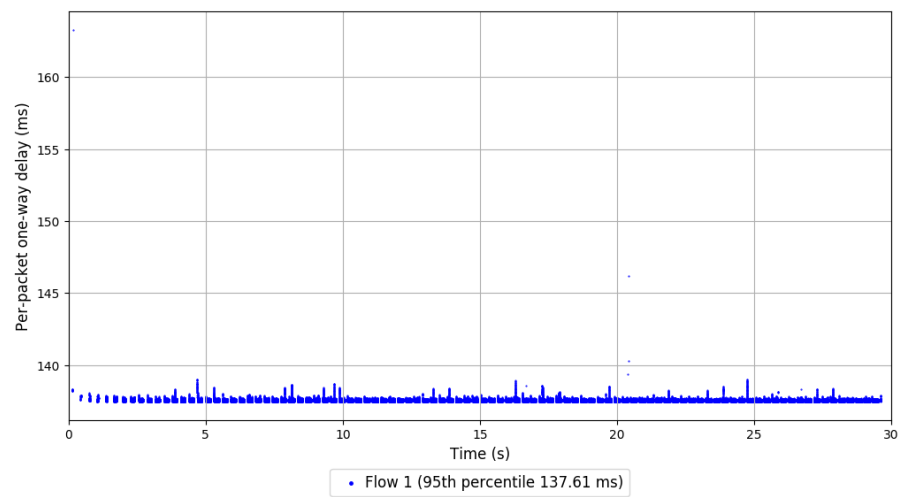
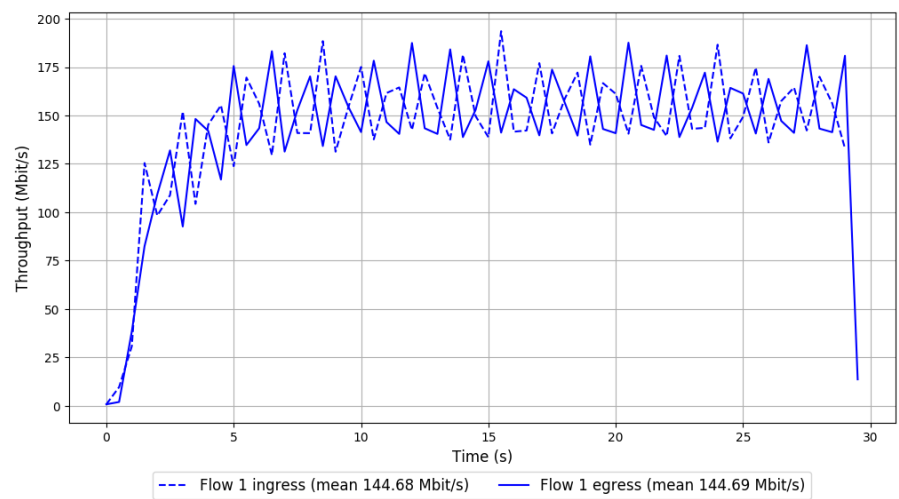
-- Flow 1:

Average throughput: 144.69 Mbit/s

95th percentile per-packet one-way delay: 137.612 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-10-11 07:15:30

End at: 2017-10-11 07:16:00

Below is generated by plot.py at 2017-10-11 09:25:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.92 Mbit/s

95th percentile per-packet one-way delay: 137.625 ms

Loss rate: 0.00%

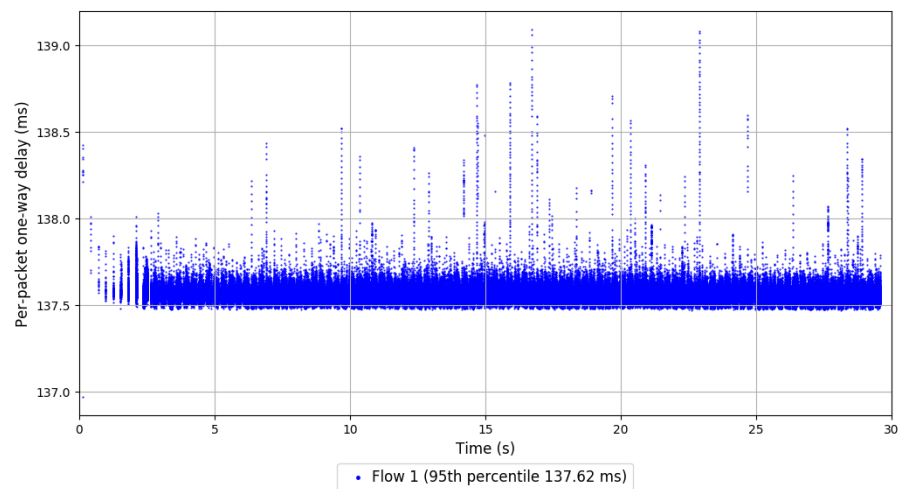
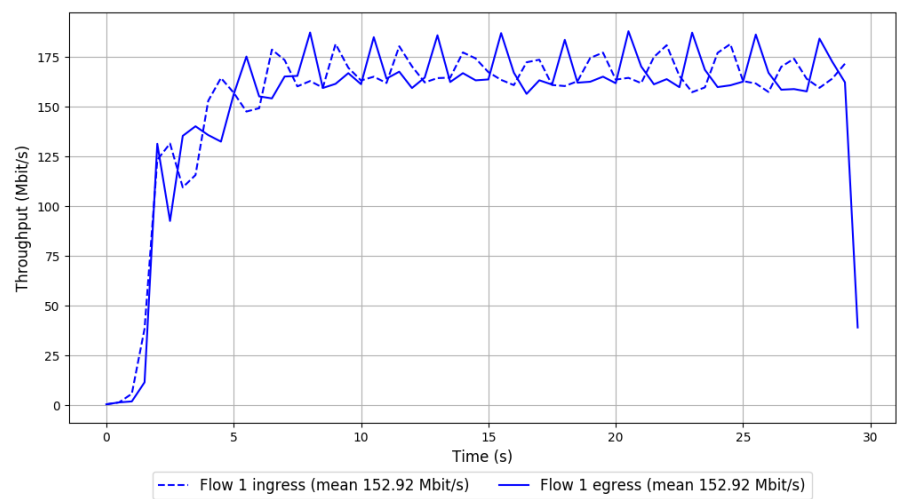
-- Flow 1:

Average throughput: 152.92 Mbit/s

95th percentile per-packet one-way delay: 137.625 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-10-11 07:27:13

End at: 2017-10-11 07:27:43

Below is generated by plot.py at 2017-10-11 09:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.06 Mbit/s

95th percentile per-packet one-way delay: 135.732 ms

Loss rate: 0.00%

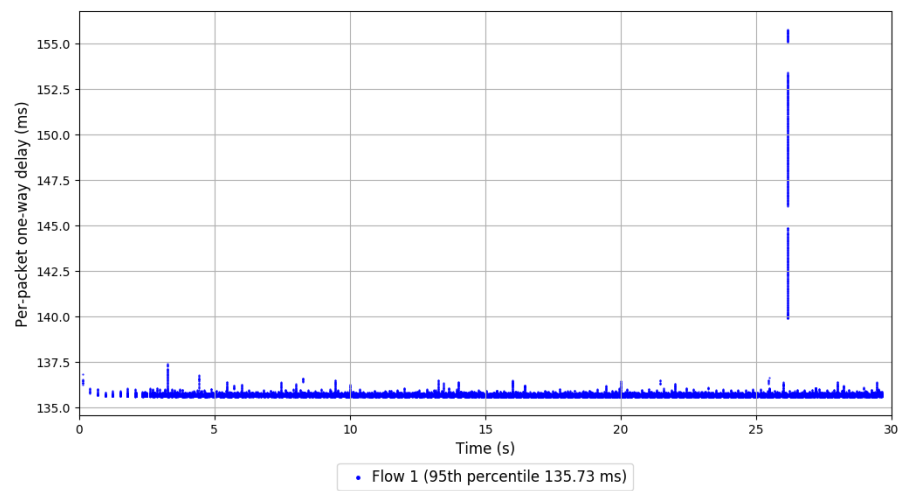
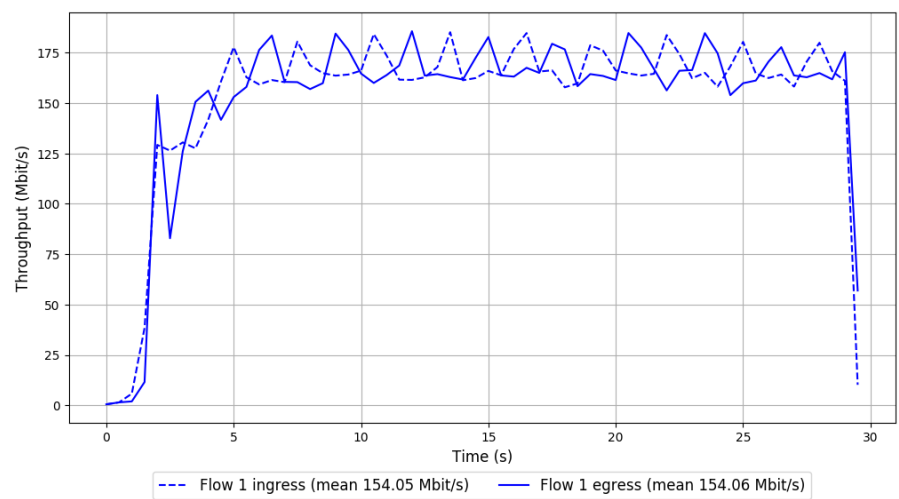
-- Flow 1:

Average throughput: 154.06 Mbit/s

95th percentile per-packet one-way delay: 135.732 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-10-11 07:39:09

End at: 2017-10-11 07:39:39

Below is generated by plot.py at 2017-10-11 09:25:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 138.94 Mbit/s

95th percentile per-packet one-way delay: 135.737 ms

Loss rate: 0.00%

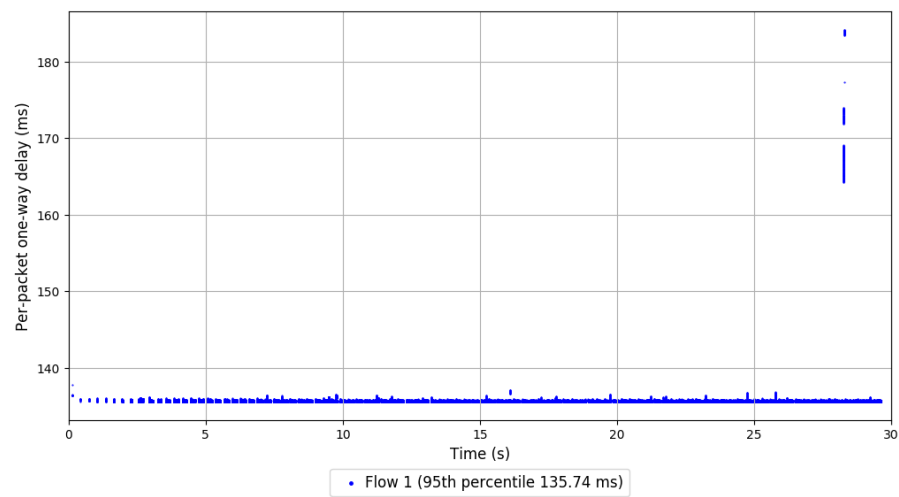
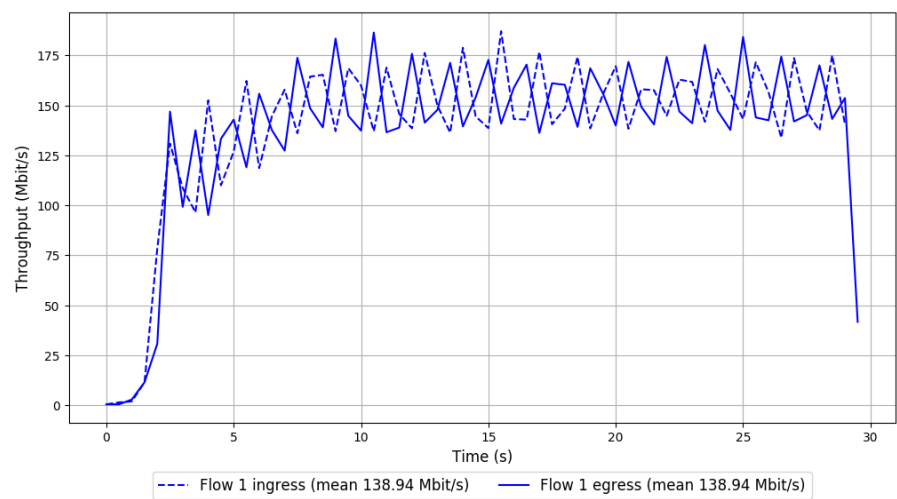
-- Flow 1:

Average throughput: 138.94 Mbit/s

95th percentile per-packet one-way delay: 135.737 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-10-11 07:51:06

End at: 2017-10-11 07:51:36

Below is generated by plot.py at 2017-10-11 09:25:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 142.30 Mbit/s

95th percentile per-packet one-way delay: 135.748 ms

Loss rate: 0.00%

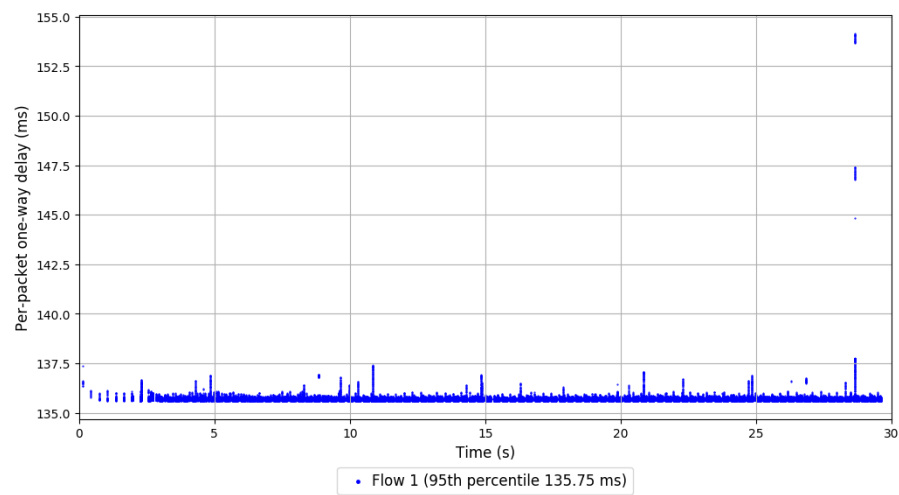
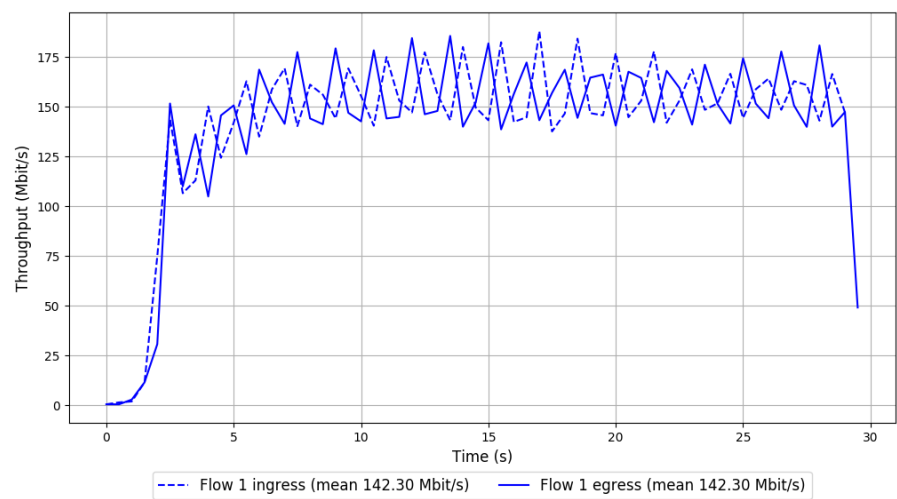
-- Flow 1:

Average throughput: 142.30 Mbit/s

95th percentile per-packet one-way delay: 135.748 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-10-11 08:02:43

End at: 2017-10-11 08:03:13

Below is generated by plot.py at 2017-10-11 09:25:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.80 Mbit/s

95th percentile per-packet one-way delay: 135.759 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 141.80 Mbit/s

95th percentile per-packet one-way delay: 135.759 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

