

Pantheon Report

Generated at 2017-10-11 08:48:57 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

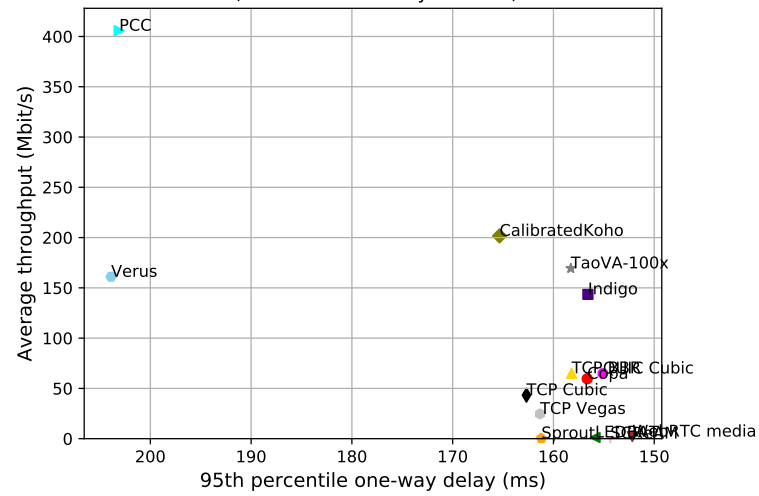
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

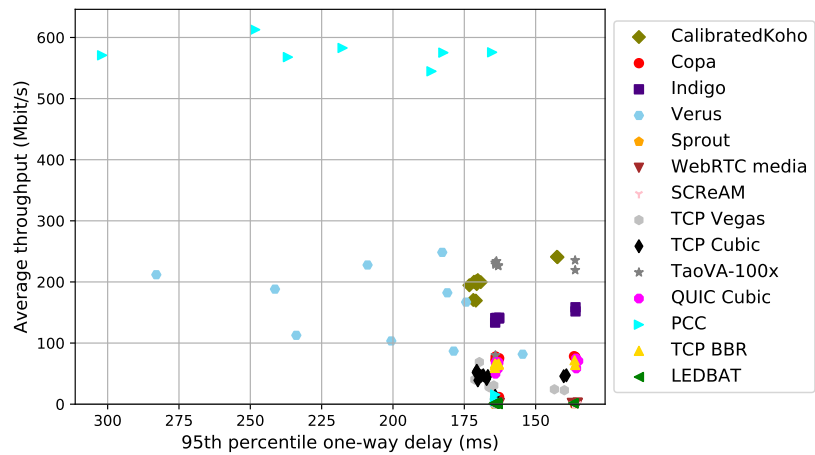
Git summary:

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	65.04	158.20	1.00
TCP Cubic	10	43.28	162.68	1.47
LEDBAT	10	1.18	155.87	1.61
PCC	10	405.71	203.10	2.85
QUIC Cubic	10	64.85	155.10	1.20
SCReAM	9	0.20	154.35	1.00
WebRTC media	10	2.10	152.17	1.10
Sprout	10	0.35	161.20	0.89
TaoVA-100x	10	169.39	158.28	1.04
TCP Vegas	10	24.63	161.33	0.89
Verus	10	161.02	203.90	1.96
Copa	8	59.61	156.65	1.36
CalibratedKoho	10	201.68	165.35	1.94
Indigo	8	143.56	156.58	1.09

Run 1: Statistics of TCP BBR

Start at: 2017-10-11 04:18:37

End at: 2017-10-11 04:19:07

Below is generated by plot.py at 2017-10-11 08:18:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.90 Mbit/s

95th percentile per-packet one-way delay: 136.339 ms

Loss rate: 1.11%

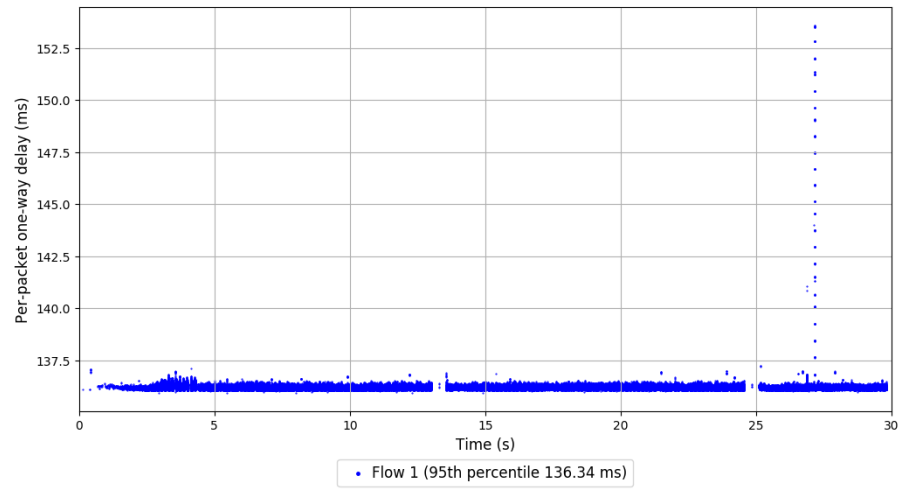
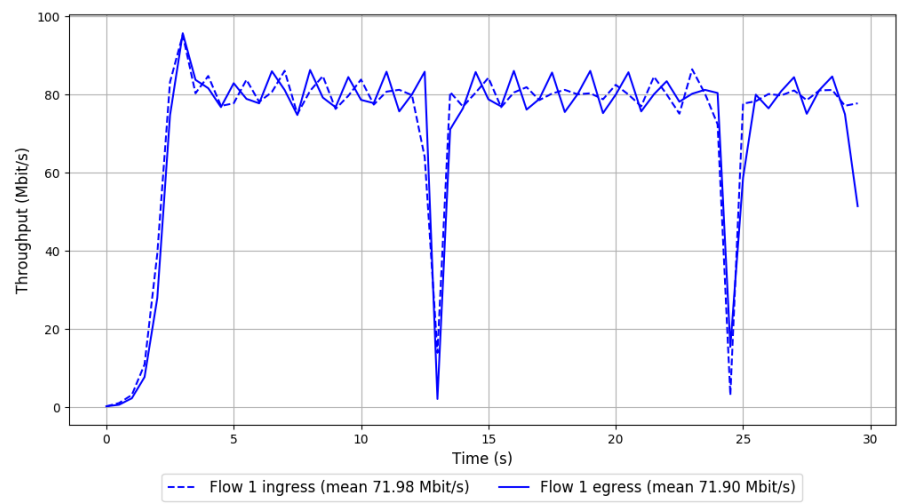
-- Flow 1:

Average throughput: 71.90 Mbit/s

95th percentile per-packet one-way delay: 136.339 ms

Loss rate: 1.11%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-10-11 04:30:59

End at: 2017-10-11 04:31:29

Below is generated by plot.py at 2017-10-11 08:18:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.45 Mbit/s

95th percentile per-packet one-way delay: 163.009 ms

Loss rate: 0.60%

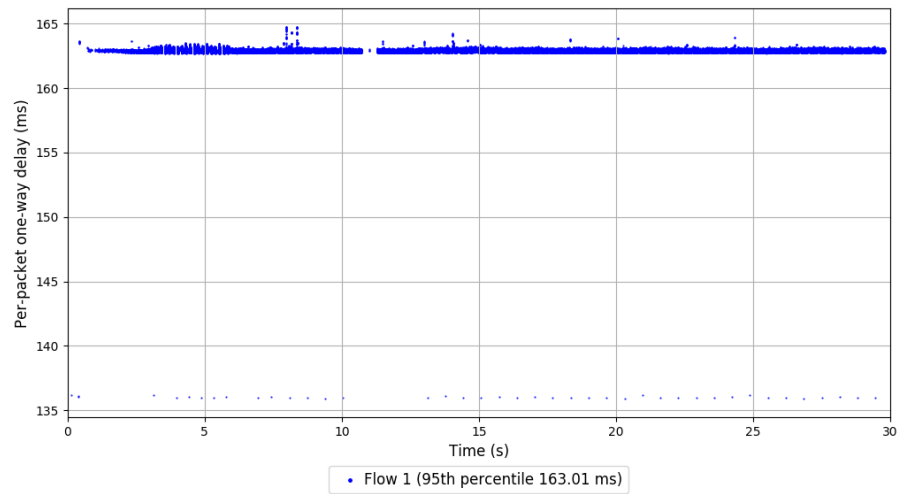
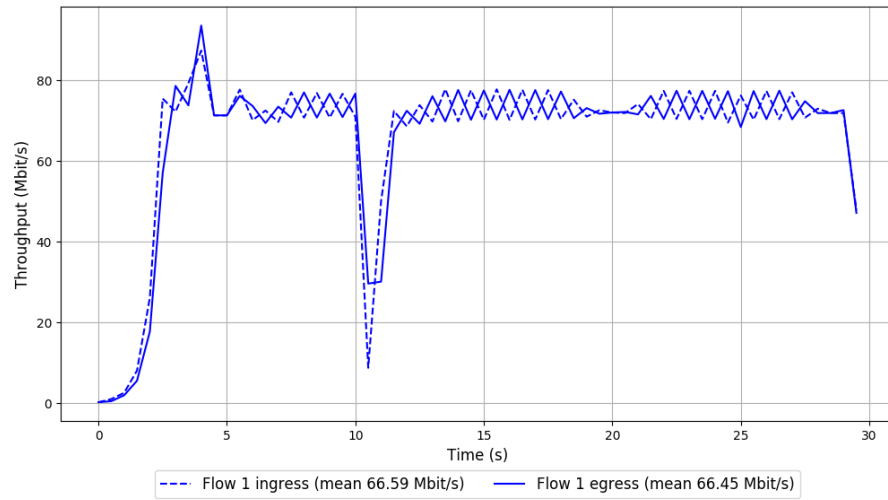
-- Flow 1:

Average throughput: 66.45 Mbit/s

95th percentile per-packet one-way delay: 163.009 ms

Loss rate: 0.60%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-10-11 04:43:18

End at: 2017-10-11 04:43:48

Below is generated by plot.py at 2017-10-11 08:18:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.11 Mbit/s

95th percentile per-packet one-way delay: 162.960 ms

Loss rate: 1.10%

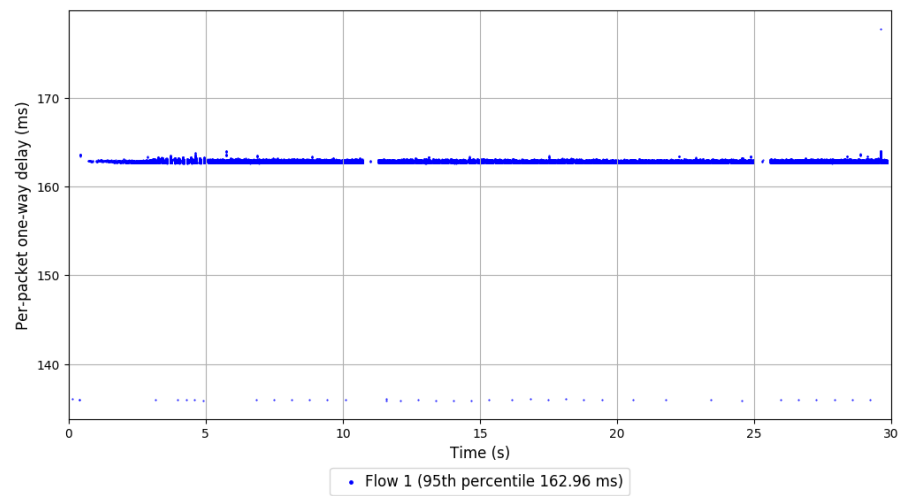
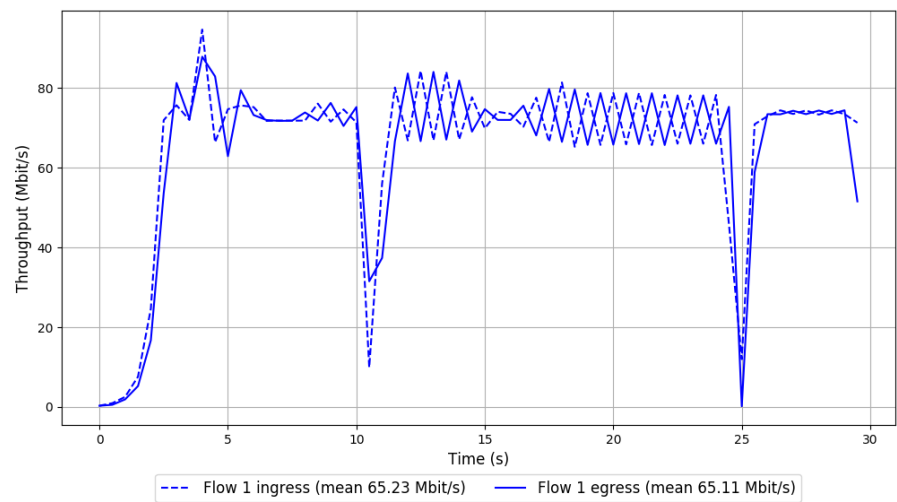
-- Flow 1:

Average throughput: 65.11 Mbit/s

95th percentile per-packet one-way delay: 162.960 ms

Loss rate: 1.10%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-10-11 04:55:24

End at: 2017-10-11 04:55:54

Below is generated by plot.py at 2017-10-11 08:18:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.88 Mbit/s

95th percentile per-packet one-way delay: 162.934 ms

Loss rate: 1.23%

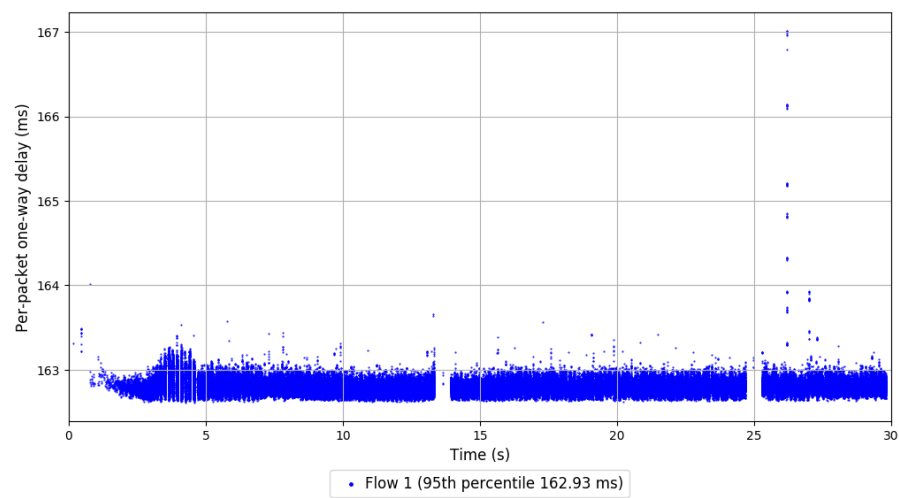
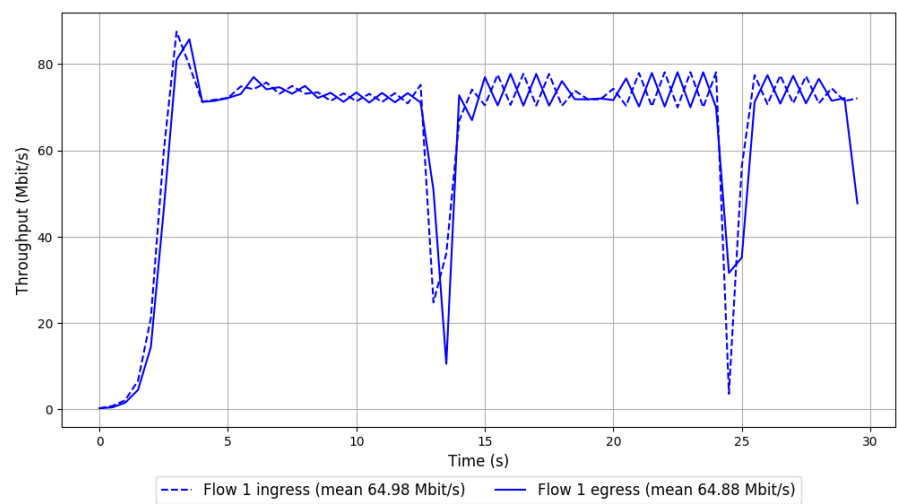
-- Flow 1:

Average throughput: 64.88 Mbit/s

95th percentile per-packet one-way delay: 162.934 ms

Loss rate: 1.23%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-10-11 05:06:49

End at: 2017-10-11 05:07:19

Below is generated by plot.py at 2017-10-11 08:18:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.95 Mbit/s

95th percentile per-packet one-way delay: 163.896 ms

Loss rate: 1.19%

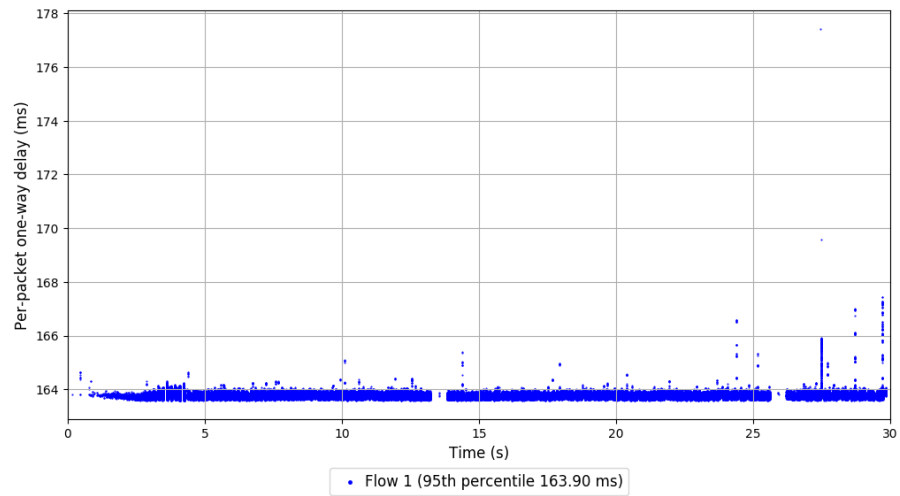
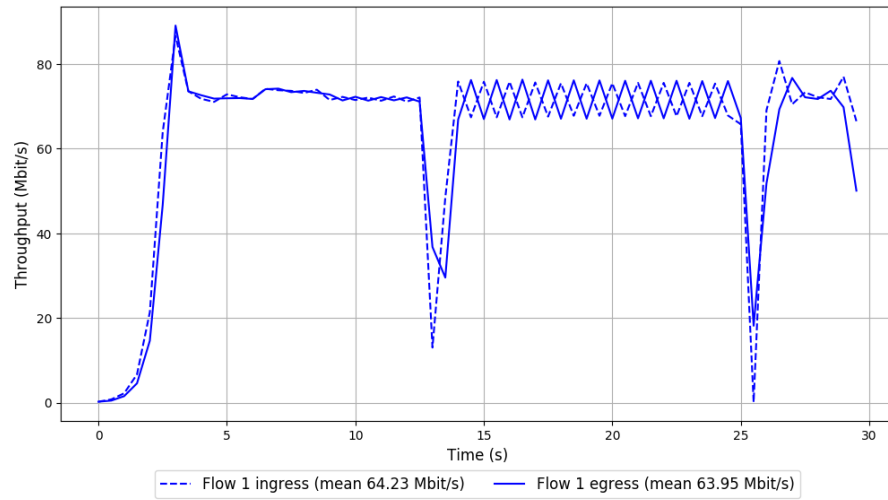
-- Flow 1:

Average throughput: 63.95 Mbit/s

95th percentile per-packet one-way delay: 163.896 ms

Loss rate: 1.19%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-10-11 05:18:20

End at: 2017-10-11 05:18:50

Below is generated by plot.py at 2017-10-11 08:18:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.66 Mbit/s

95th percentile per-packet one-way delay: 163.883 ms

Loss rate: 1.12%

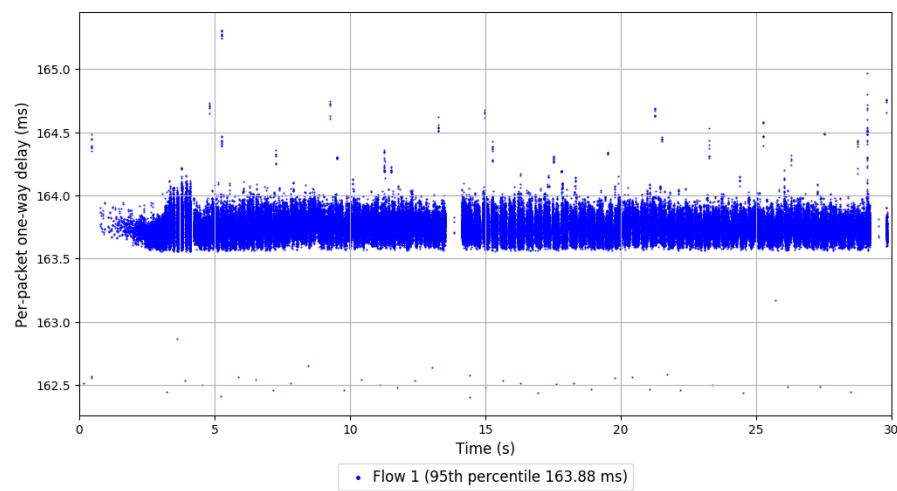
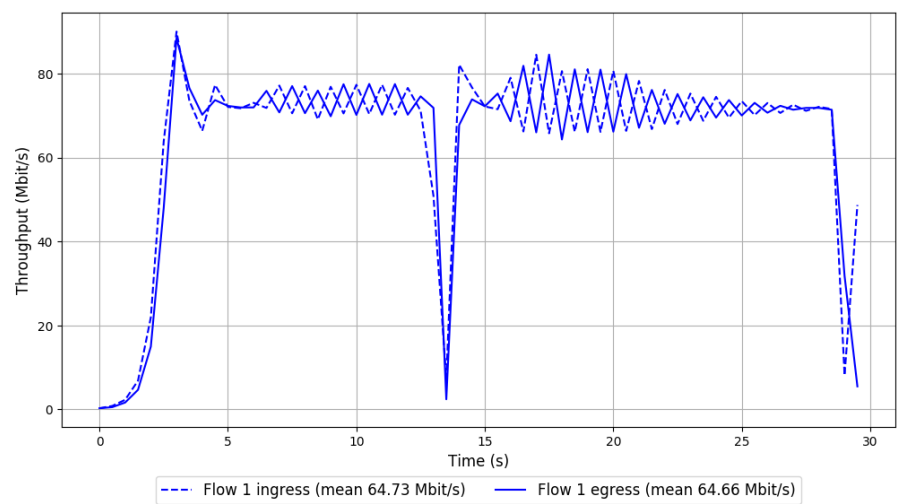
-- Flow 1:

Average throughput: 64.66 Mbit/s

95th percentile per-packet one-way delay: 163.883 ms

Loss rate: 1.12%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-10-11 05:30:22

End at: 2017-10-11 05:30:52

Below is generated by plot.py at 2017-10-11 08:18:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.42 Mbit/s

95th percentile per-packet one-way delay: 164.275 ms

Loss rate: 0.00%

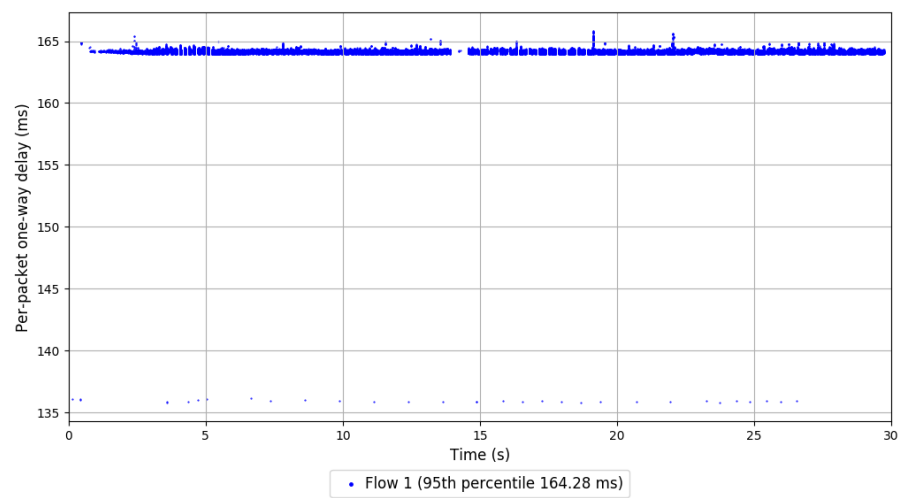
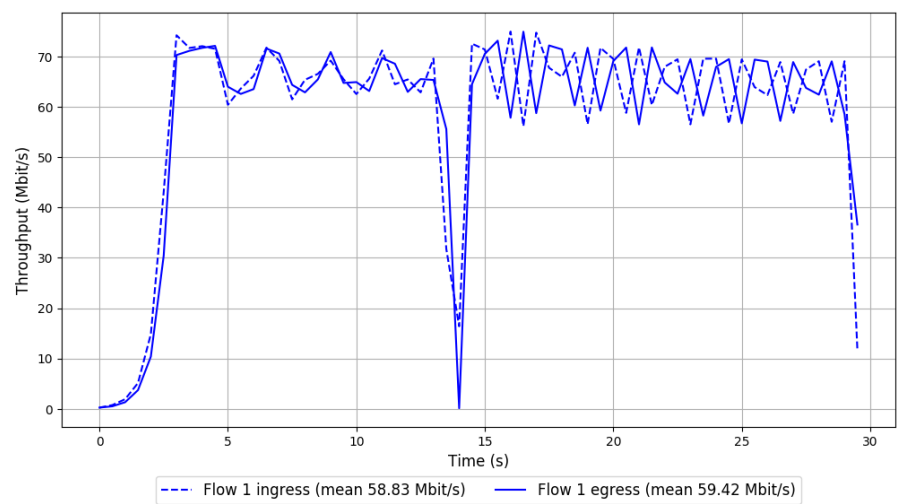
-- Flow 1:

Average throughput: 59.42 Mbit/s

95th percentile per-packet one-way delay: 164.275 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-10-11 05:41:24

End at: 2017-10-11 05:41:54

Below is generated by plot.py at 2017-10-11 08:18:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.54 Mbit/s

95th percentile per-packet one-way delay: 164.276 ms

Loss rate: 1.22%

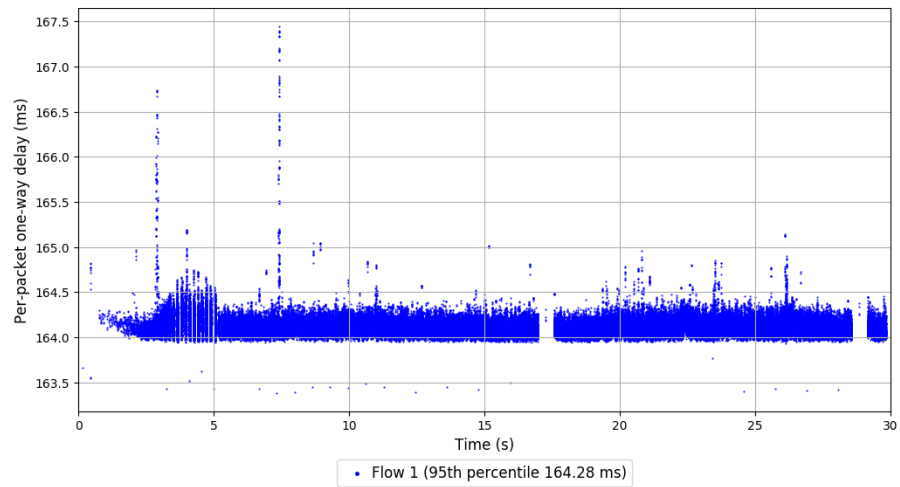
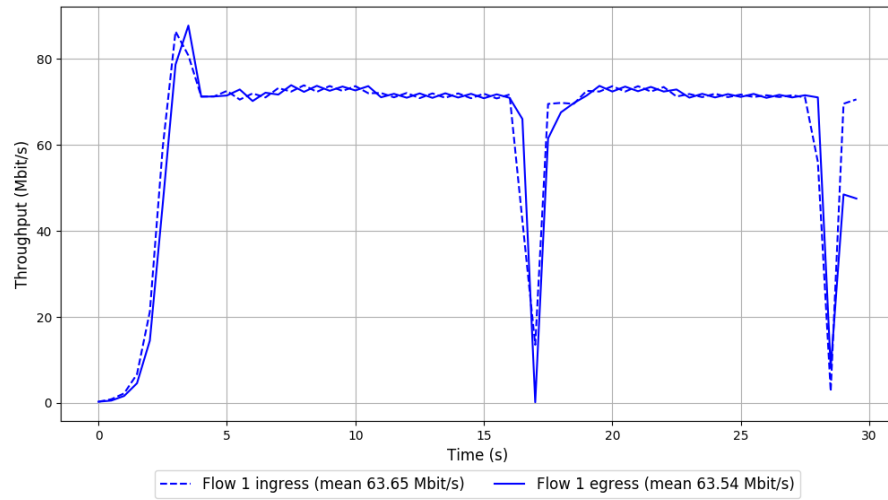
-- Flow 1:

Average throughput: 63.54 Mbit/s

95th percentile per-packet one-way delay: 164.276 ms

Loss rate: 1.22%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-10-11 05:53:07

End at: 2017-10-11 05:53:37

Below is generated by plot.py at 2017-10-11 08:19:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.22 Mbit/s

95th percentile per-packet one-way delay: 164.258 ms

Loss rate: 1.17%

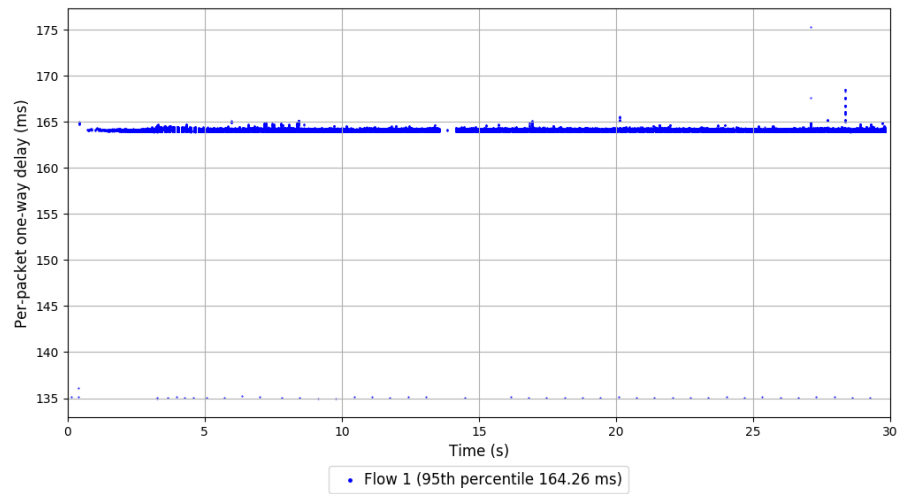
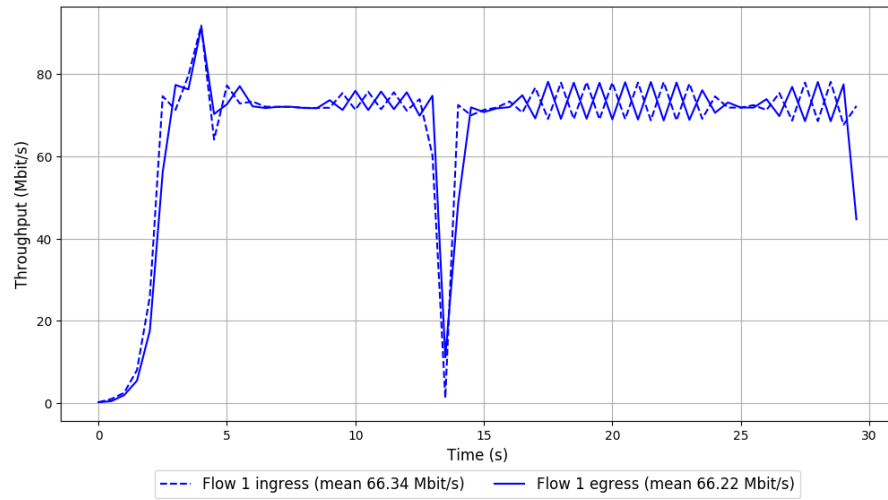
-- Flow 1:

Average throughput: 66.22 Mbit/s

95th percentile per-packet one-way delay: 164.258 ms

Loss rate: 1.17%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-10-11 06:04:50

End at: 2017-10-11 06:05:20

Below is generated by plot.py at 2017-10-11 08:19:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.28 Mbit/s

95th percentile per-packet one-way delay: 136.134 ms

Loss rate: 1.24%

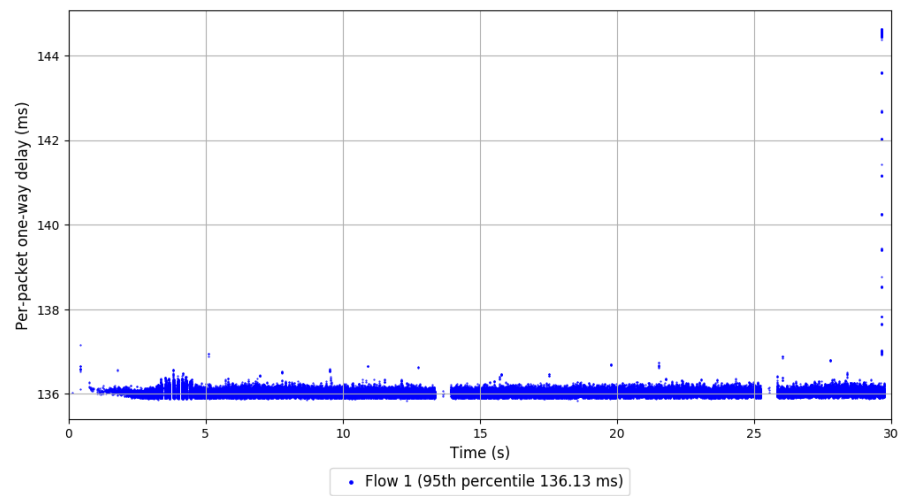
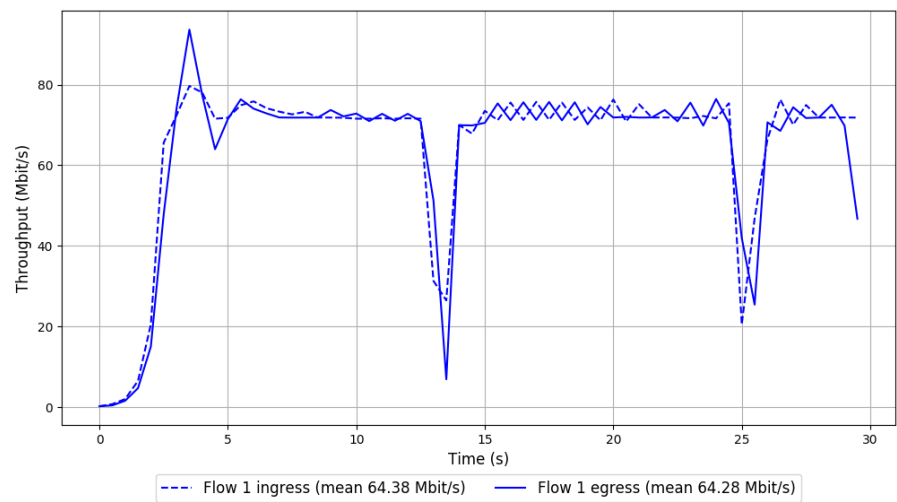
-- Flow 1:

Average throughput: 64.28 Mbit/s

95th percentile per-packet one-way delay: 136.134 ms

Loss rate: 1.24%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-10-11 04:29:10

End at: 2017-10-11 04:29:40

Below is generated by plot.py at 2017-10-11 08:19:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.62 Mbit/s

95th percentile per-packet one-way delay: 164.172 ms

Loss rate: 2.77%

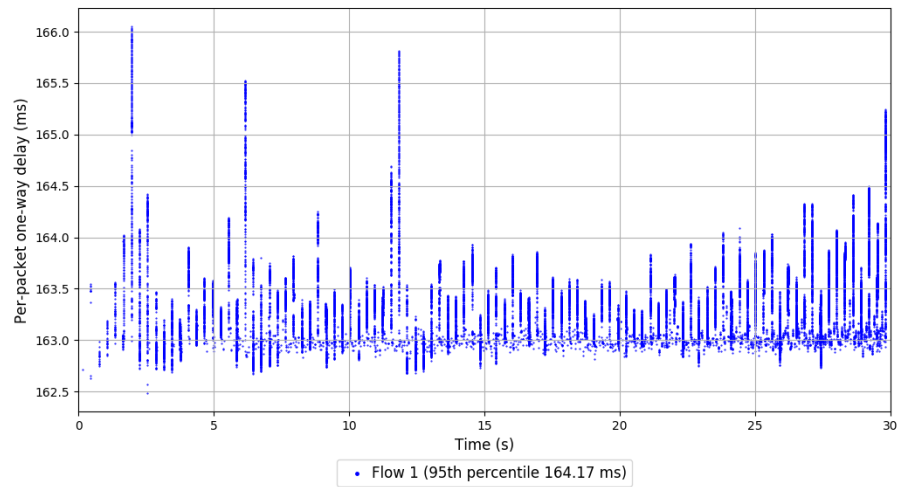
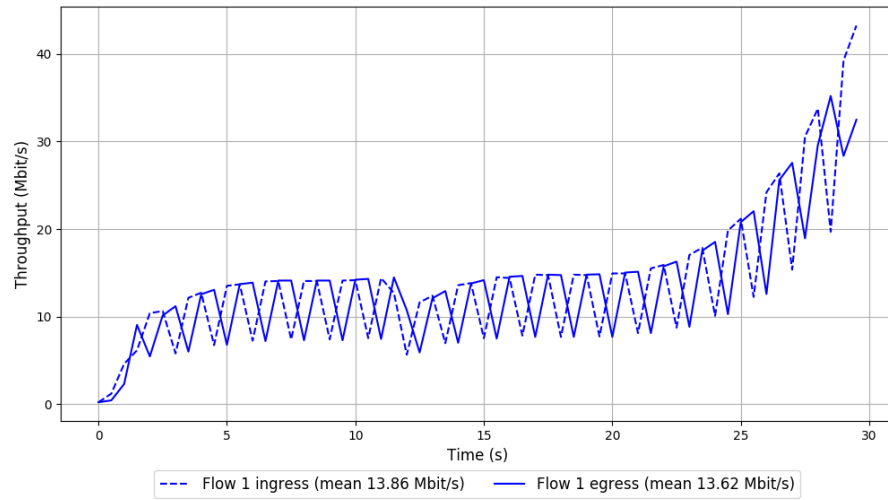
-- Flow 1:

Average throughput: 13.62 Mbit/s

95th percentile per-packet one-way delay: 164.172 ms

Loss rate: 2.77%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-10-11 04:41:19

End at: 2017-10-11 04:41:49

Below is generated by plot.py at 2017-10-11 08:19:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.99 Mbit/s

95th percentile per-packet one-way delay: 170.265 ms

Loss rate: 1.88%

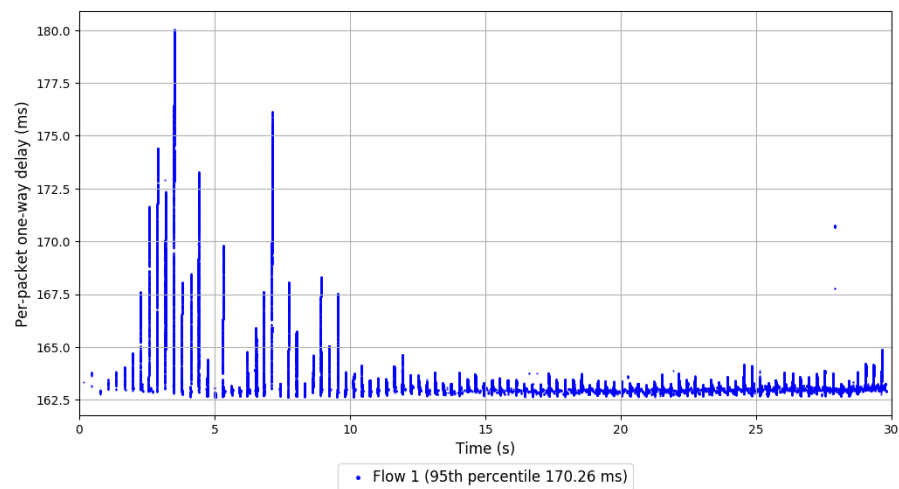
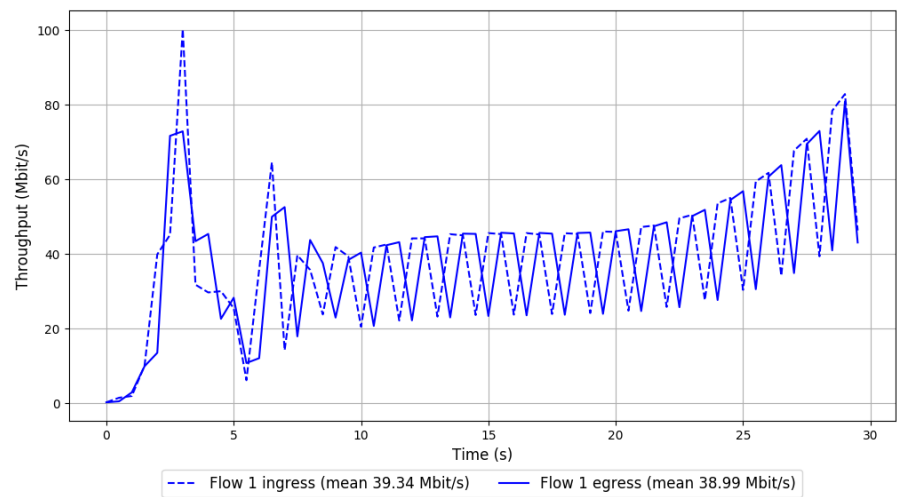
-- Flow 1:

Average throughput: 38.99 Mbit/s

95th percentile per-packet one-way delay: 170.265 ms

Loss rate: 1.88%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-10-11 04:53:37

End at: 2017-10-11 04:54:07

Below is generated by plot.py at 2017-10-11 08:19:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.01 Mbit/s

95th percentile per-packet one-way delay: 166.745 ms

Loss rate: 0.85%

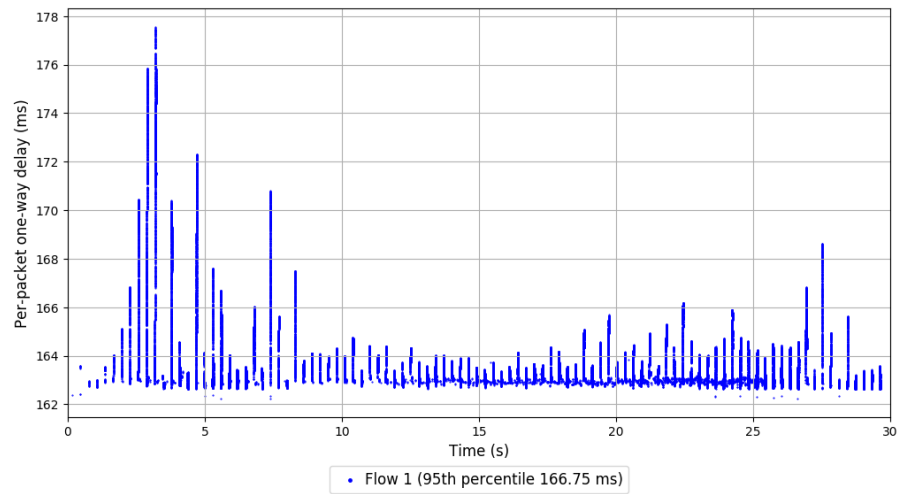
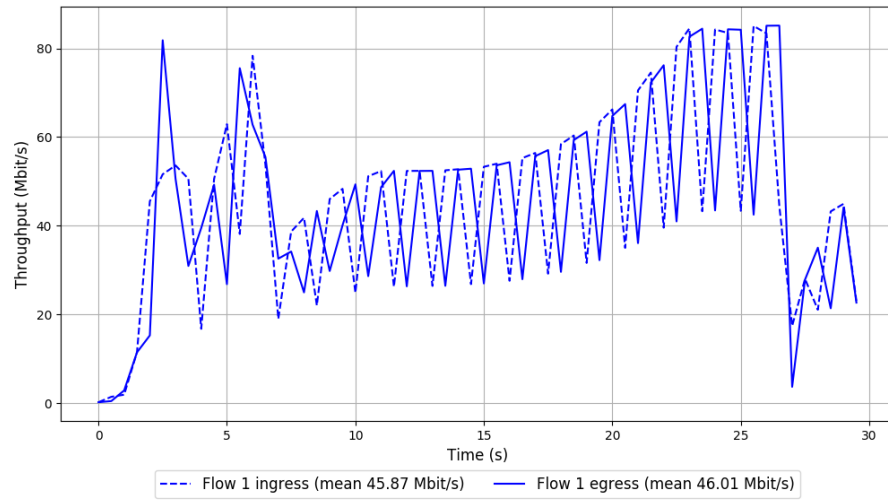
-- Flow 1:

Average throughput: 46.01 Mbit/s

95th percentile per-packet one-way delay: 166.745 ms

Loss rate: 0.85%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-10-11 05:05:09

End at: 2017-10-11 05:05:39

Below is generated by plot.py at 2017-10-11 08:19:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.29 Mbit/s

95th percentile per-packet one-way delay: 168.351 ms

Loss rate: 1.68%

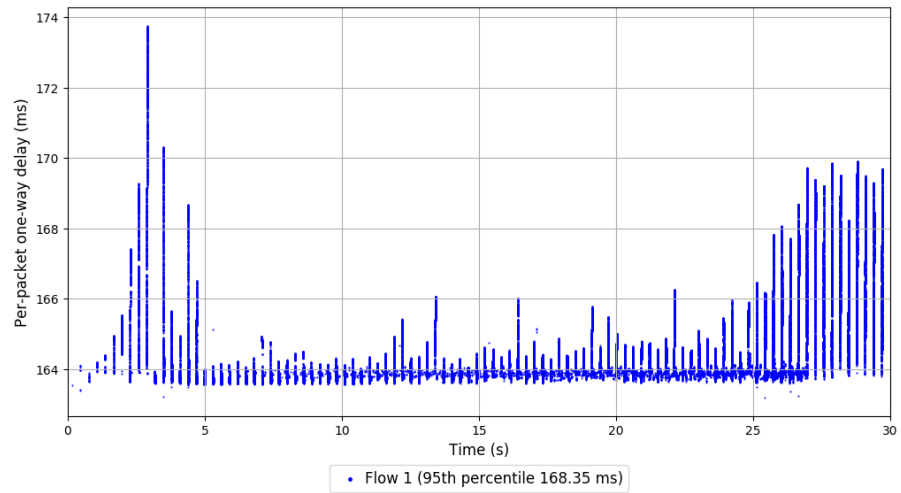
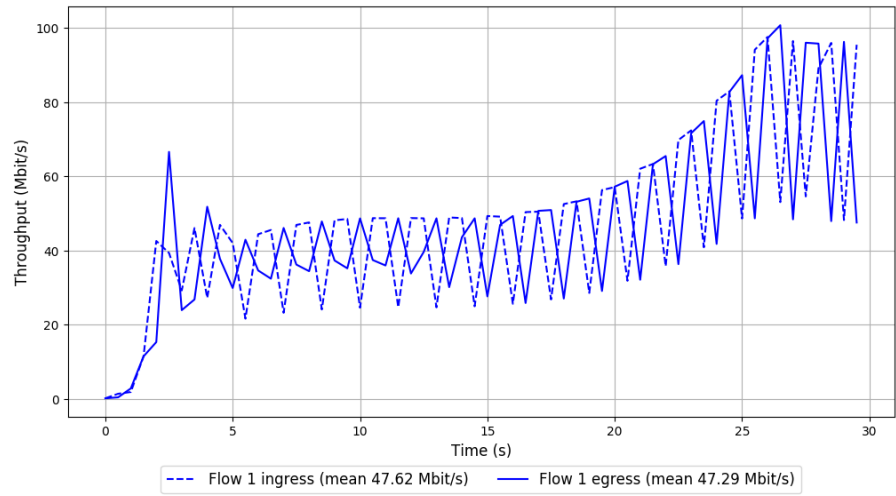
-- Flow 1:

Average throughput: 47.29 Mbit/s

95th percentile per-packet one-way delay: 168.351 ms

Loss rate: 1.68%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-10-11 05:16:34

End at: 2017-10-11 05:17:04

Below is generated by plot.py at 2017-10-11 08:19:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.15 Mbit/s

95th percentile per-packet one-way delay: 167.177 ms

Loss rate: 1.01%

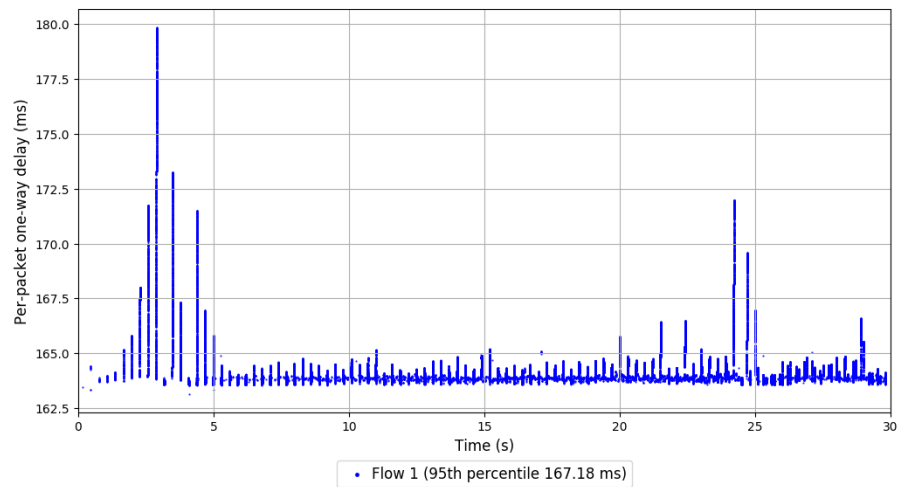
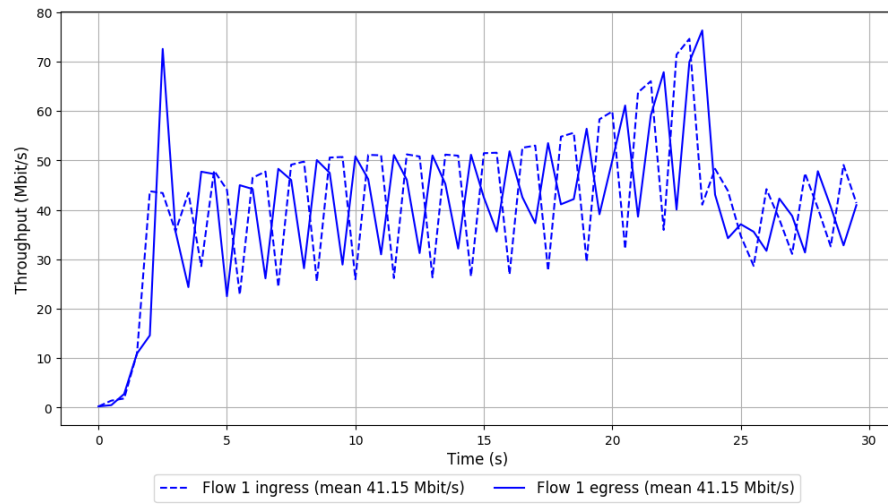
-- Flow 1:

Average throughput: 41.15 Mbit/s

95th percentile per-packet one-way delay: 167.177 ms

Loss rate: 1.01%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-10-11 05:28:35

End at: 2017-10-11 05:29:05

Below is generated by plot.py at 2017-10-11 08:19:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.94 Mbit/s

95th percentile per-packet one-way delay: 170.879 ms

Loss rate: 1.54%

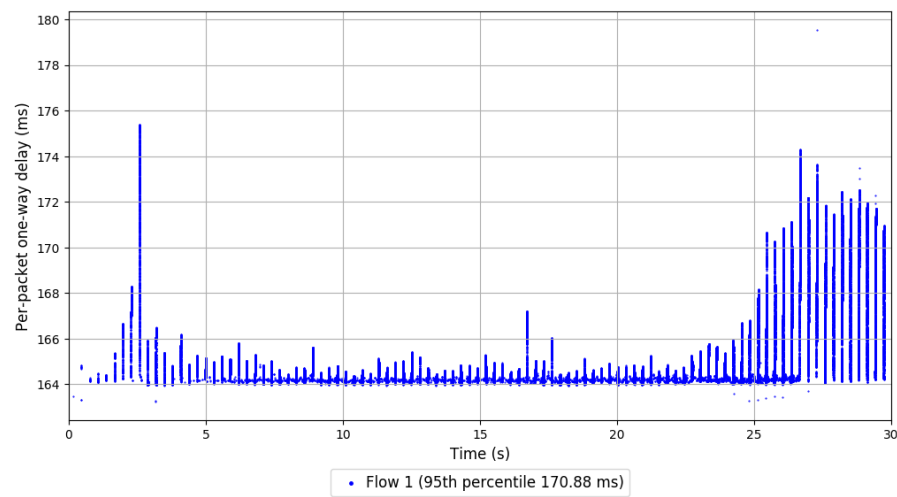
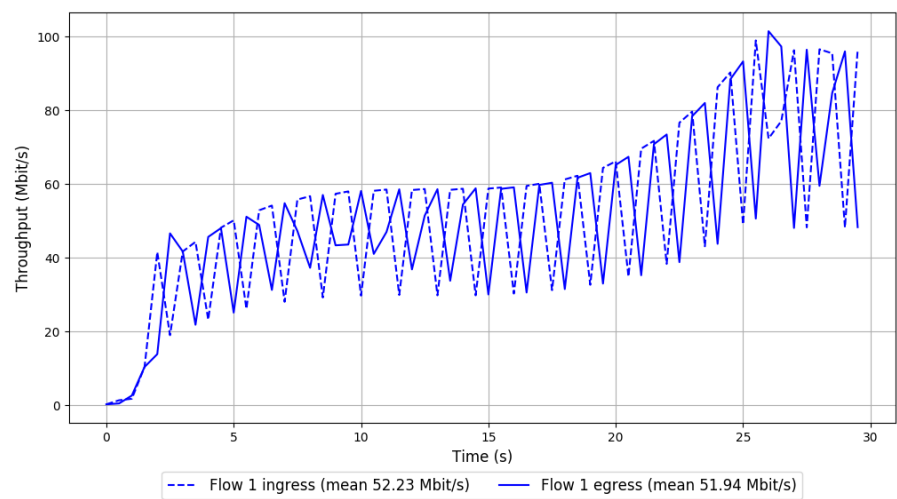
-- Flow 1:

Average throughput: 51.94 Mbit/s

95th percentile per-packet one-way delay: 170.879 ms

Loss rate: 1.54%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-10-11 05:39:43

End at: 2017-10-11 05:40:13

Below is generated by plot.py at 2017-10-11 08:19:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.64 Mbit/s

95th percentile per-packet one-way delay: 170.621 ms

Loss rate: 1.44%

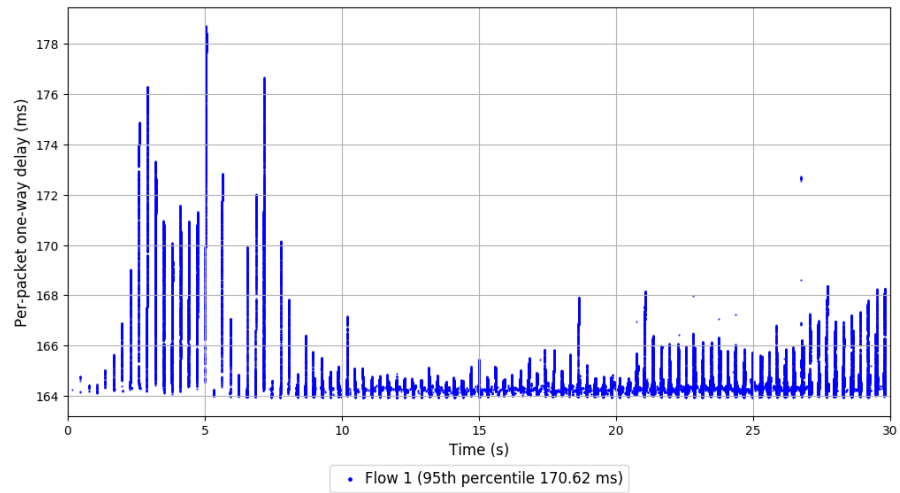
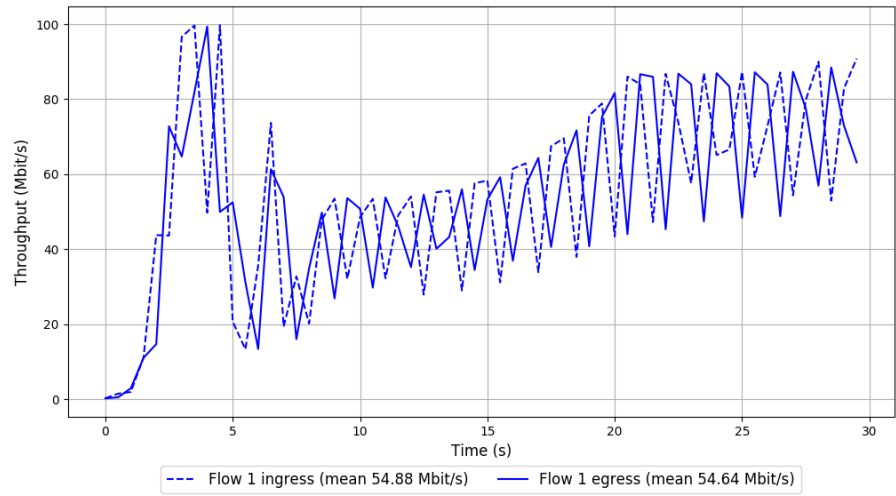
-- Flow 1:

Average throughput: 54.64 Mbit/s

95th percentile per-packet one-way delay: 170.621 ms

Loss rate: 1.44%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-10-11 05:51:26

End at: 2017-10-11 05:51:56

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.12 Mbit/s

95th percentile per-packet one-way delay: 169.186 ms

Loss rate: 0.89%

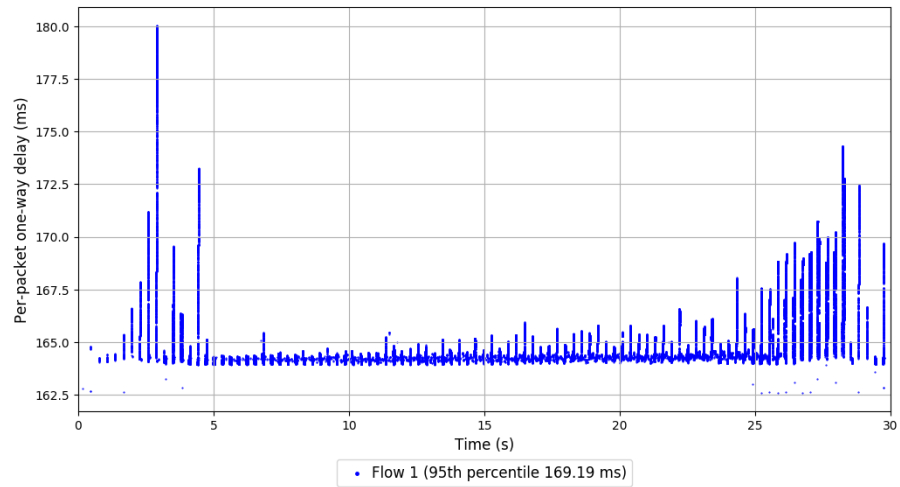
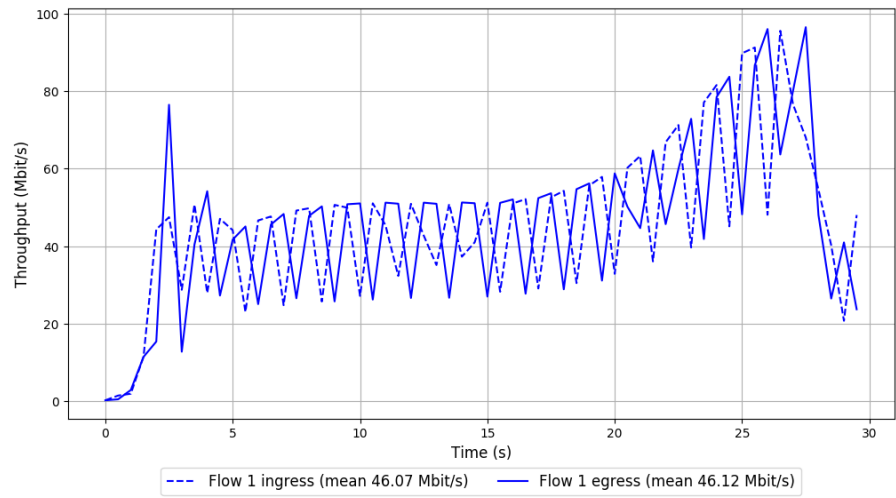
-- Flow 1:

Average throughput: 46.12 Mbit/s

95th percentile per-packet one-way delay: 169.186 ms

Loss rate: 0.89%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-10-11 06:03:09

End at: 2017-10-11 06:03:39

Below is generated by plot.py at 2017-10-11 08:20:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.78 Mbit/s

95th percentile per-packet one-way delay: 140.152 ms

Loss rate: 1.52%

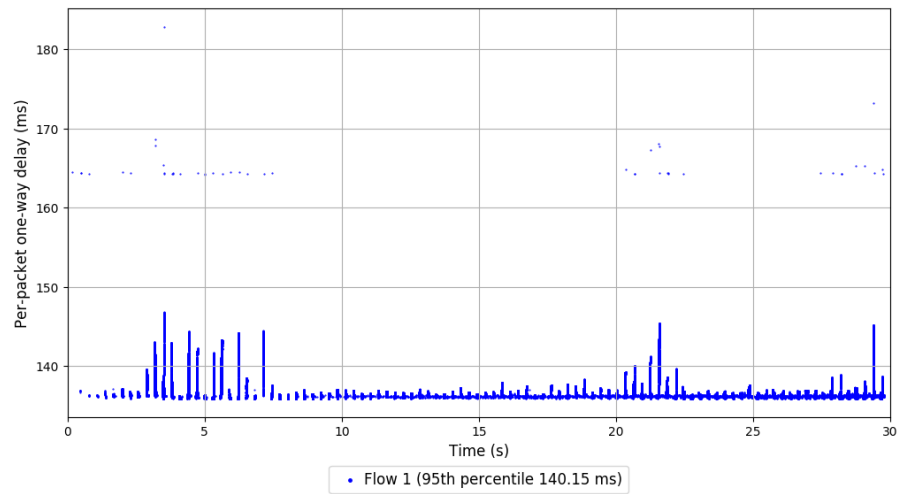
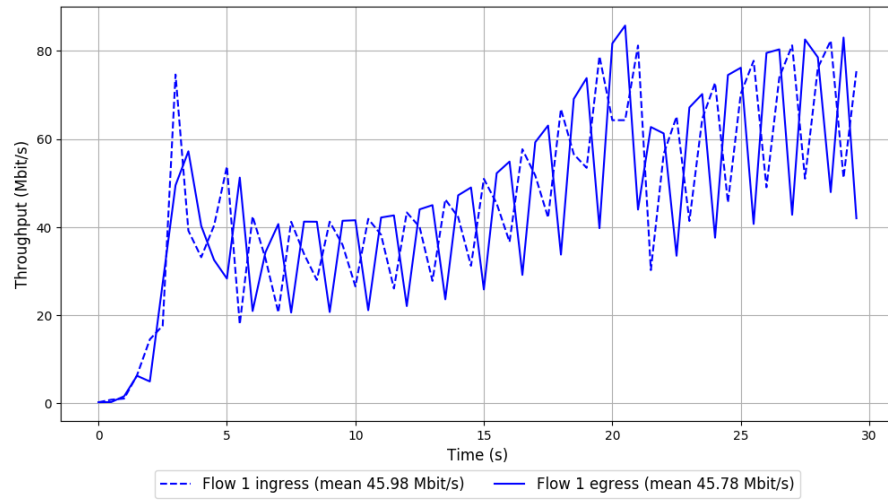
-- Flow 1:

Average throughput: 45.78 Mbit/s

95th percentile per-packet one-way delay: 140.152 ms

Loss rate: 1.52%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-10-11 06:15:12

End at: 2017-10-11 06:15:42

Below is generated by plot.py at 2017-10-11 08:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.31 Mbit/s

95th percentile per-packet one-way delay: 139.227 ms

Loss rate: 1.09%

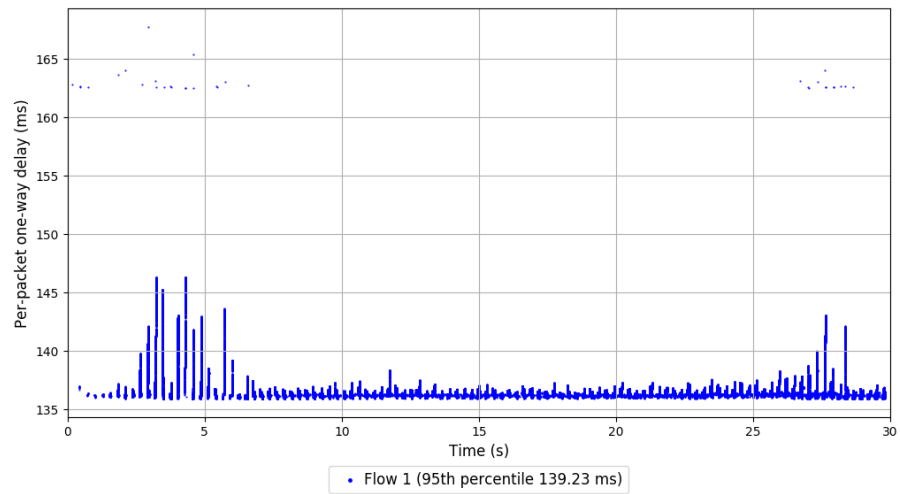
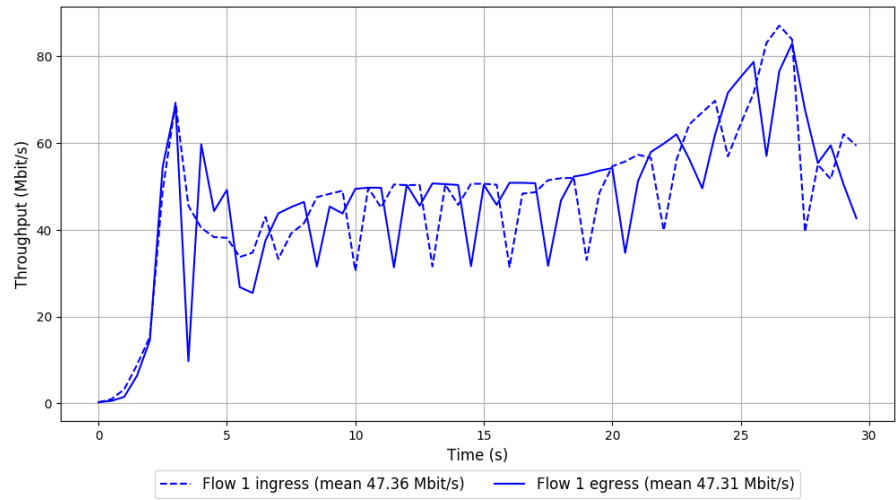
-- Flow 1:

Average throughput: 47.31 Mbit/s

95th percentile per-packet one-way delay: 139.227 ms

Loss rate: 1.09%

Run 10: Report of TCP Cubic — Data Link

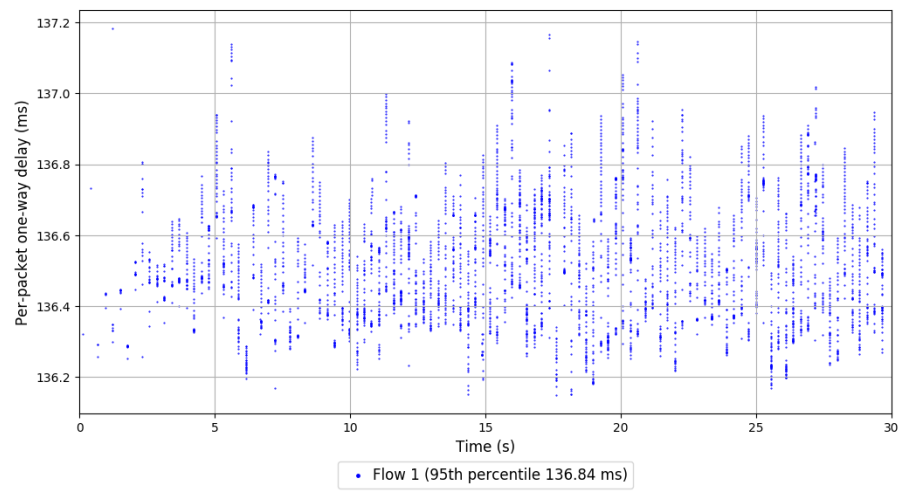
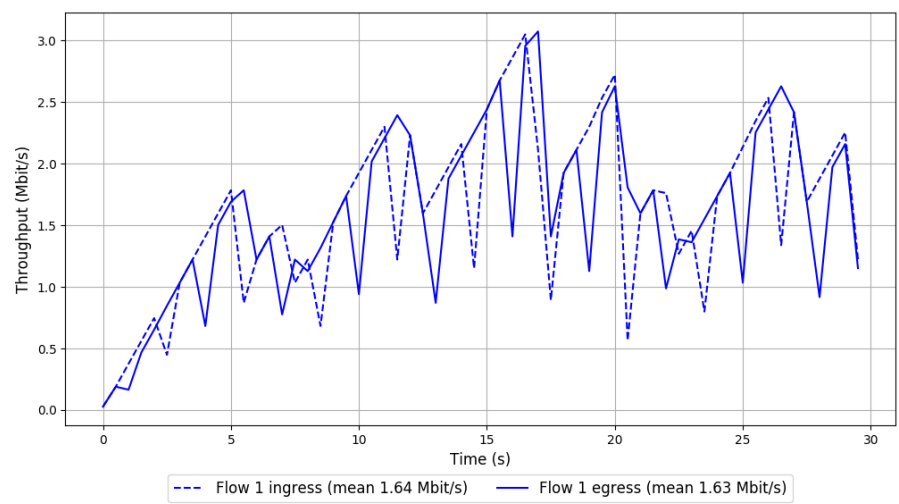


```
Run 1: Statistics of LEDBAT

Start at: 2017-10-11 04:20:59
End at: 2017-10-11 04:21:29

# Below is generated by plot.py at 2017-10-11 08:20:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.63 Mbit/s
95th percentile per-packet one-way delay: 136.845 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 1.63 Mbit/s
95th percentile per-packet one-way delay: 136.845 ms
Loss rate: 1.47%
```


Run 1: Report of LEDBAT — Data Link

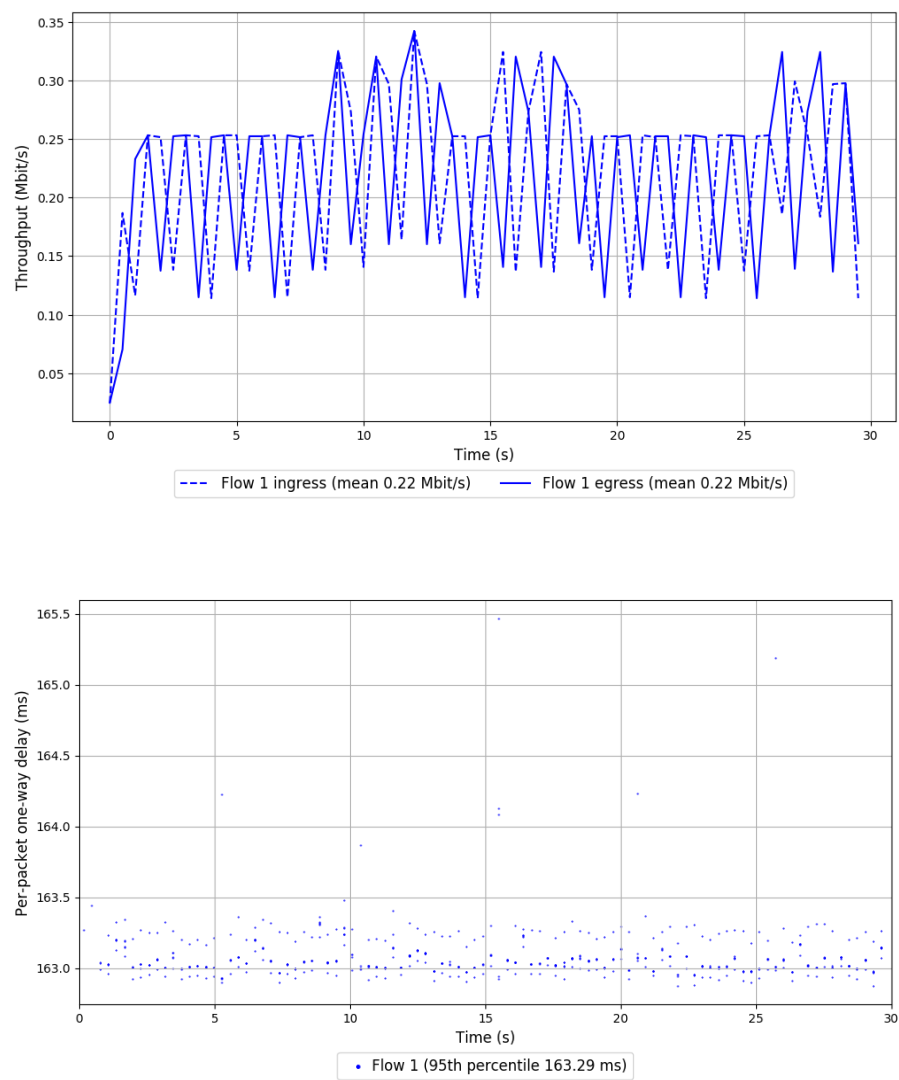


```
Run 2: Statistics of LEDBAT

Start at: 2017-10-11 04:33:21
End at: 2017-10-11 04:33:51

# Below is generated by plot.py at 2017-10-11 08:20:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 163.293 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 163.293 ms
Loss rate: 0.86%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-10-11 04:45:38

End at: 2017-10-11 04:46:08

Below is generated by plot.py at 2017-10-11 08:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.97 Mbit/s

95th percentile per-packet one-way delay: 163.653 ms

Loss rate: 2.00%

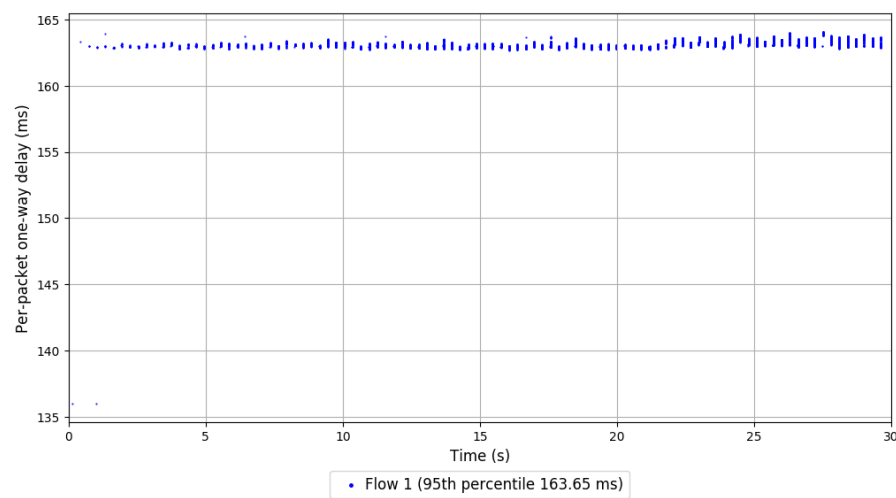
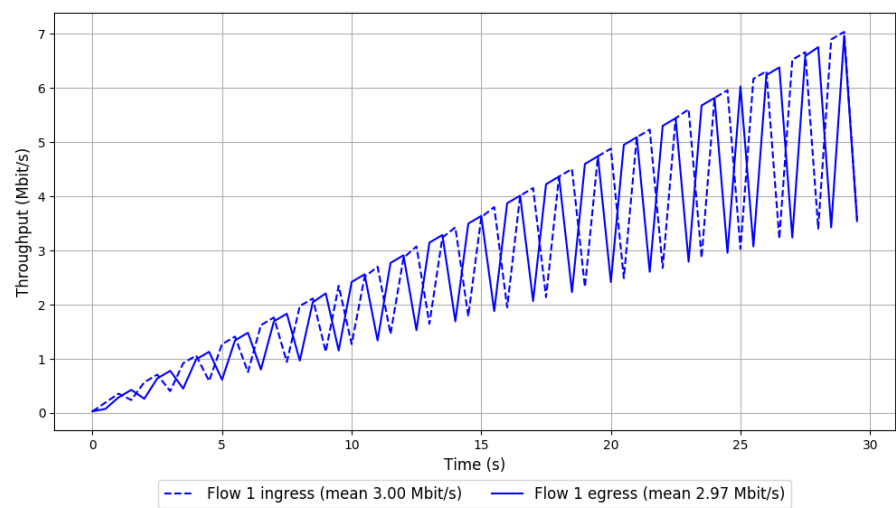
-- Flow 1:

Average throughput: 2.97 Mbit/s

95th percentile per-packet one-way delay: 163.653 ms

Loss rate: 2.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-10-11 04:57:43

End at: 2017-10-11 04:58:13

Below is generated by plot.py at 2017-10-11 08:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 163.281 ms

Loss rate: 0.82%

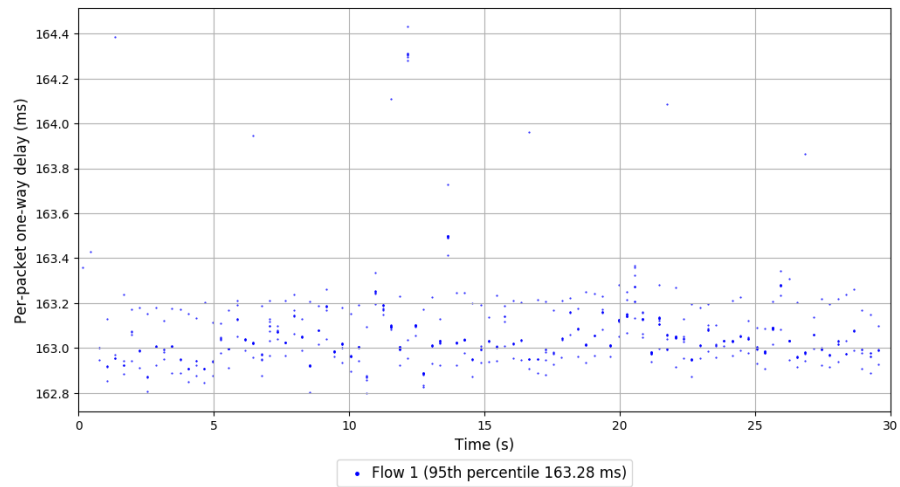
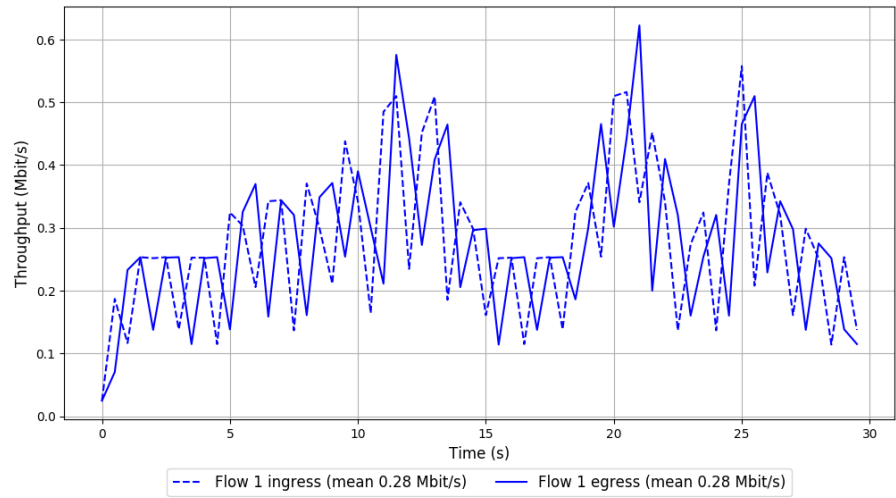
-- Flow 1:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 163.281 ms

Loss rate: 0.82%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-10-11 05:09:09

End at: 2017-10-11 05:09:39

Below is generated by plot.py at 2017-10-11 08:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 164.302 ms

Loss rate: 2.76%

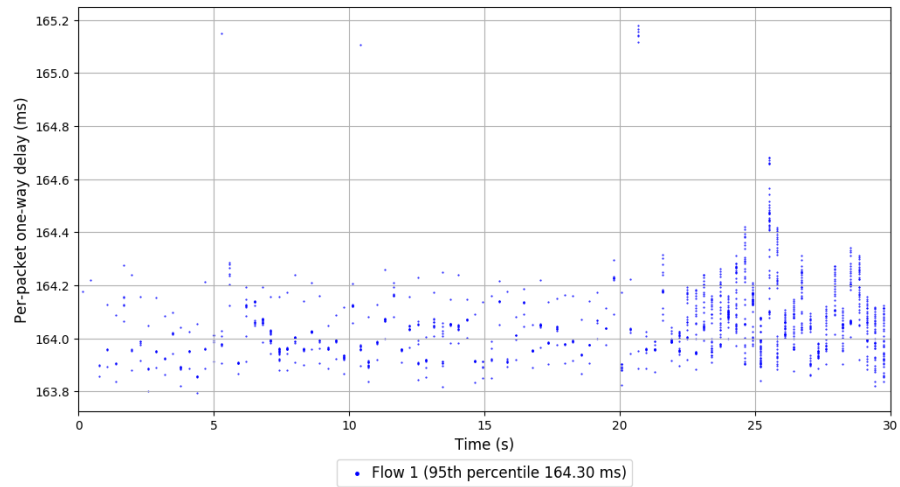
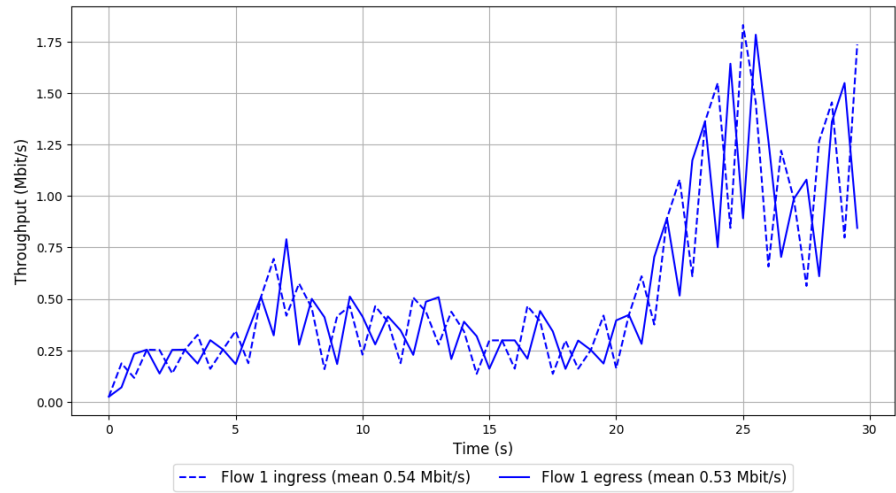
-- Flow 1:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 164.302 ms

Loss rate: 2.76%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-10-11 05:20:39

End at: 2017-10-11 05:21:09

Below is generated by plot.py at 2017-10-11 08:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.11 Mbit/s

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

Loss rate: 1.93%

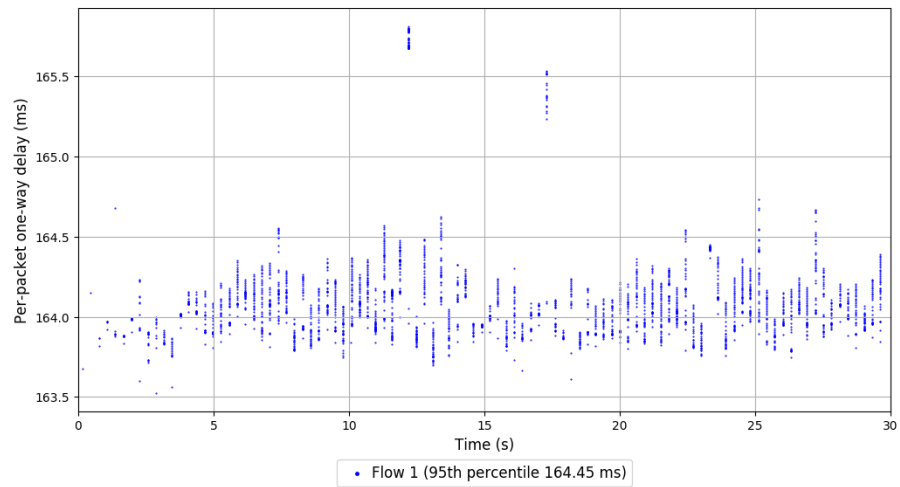
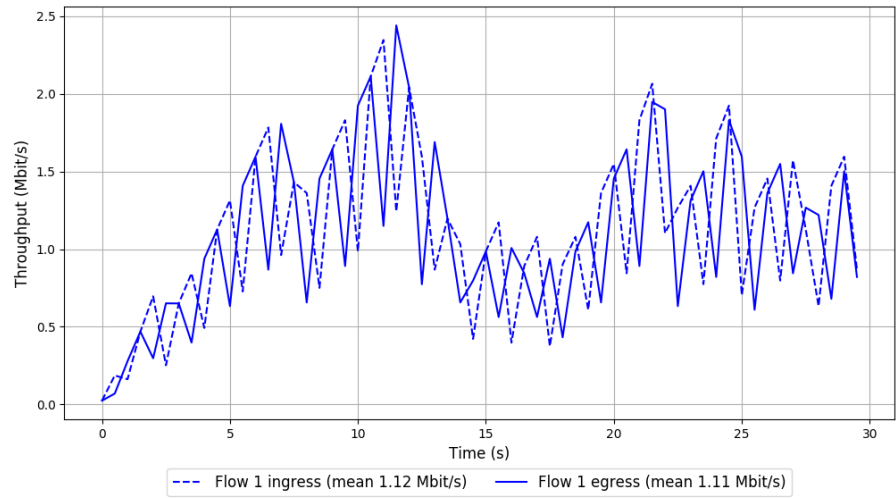
-- Flow 1:

Average throughput: 1.11 Mbit/s

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

Loss rate: 1.93%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-10-11 05:32:39

End at: 2017-10-11 05:33:09

Below is generated by plot.py at 2017-10-11 08:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 164.695 ms

Loss rate: 1.15%

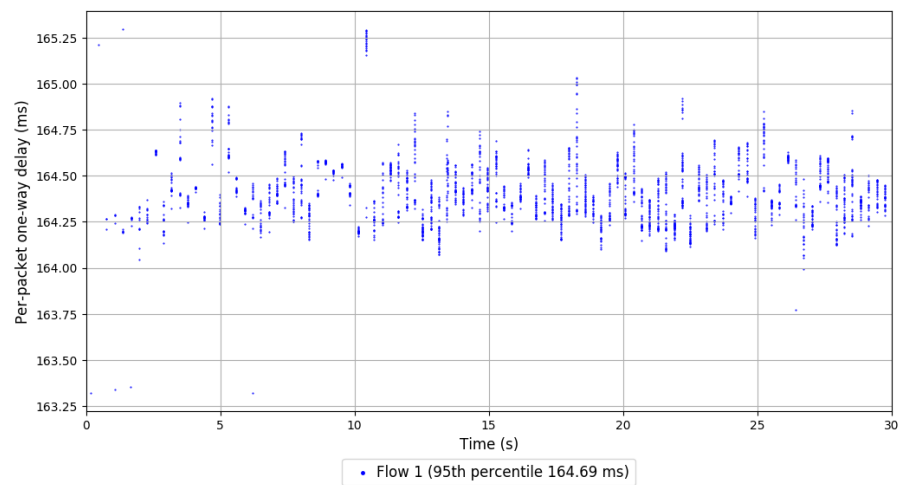
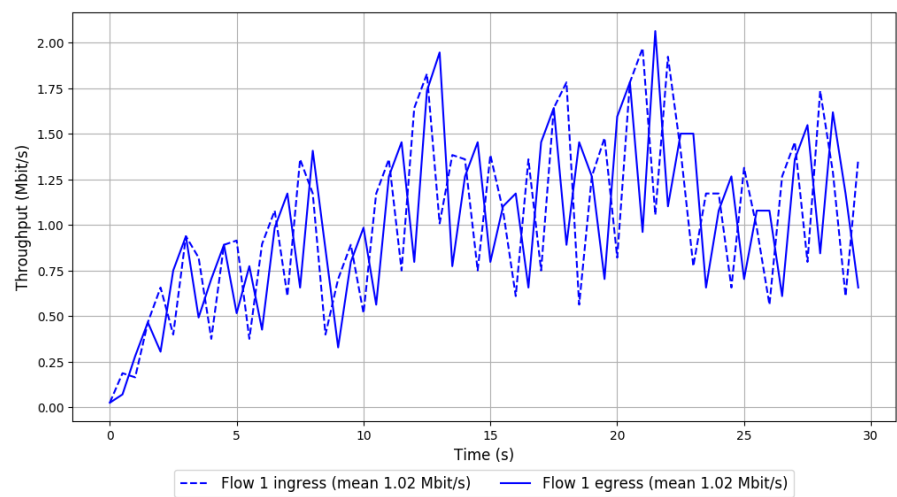
-- Flow 1:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 164.695 ms

Loss rate: 1.15%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-10-11 05:43:45

End at: 2017-10-11 05:44:15

Below is generated by plot.py at 2017-10-11 08:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.01 Mbit/s

95th percentile per-packet one-way delay: 164.752 ms

Loss rate: 1.12%

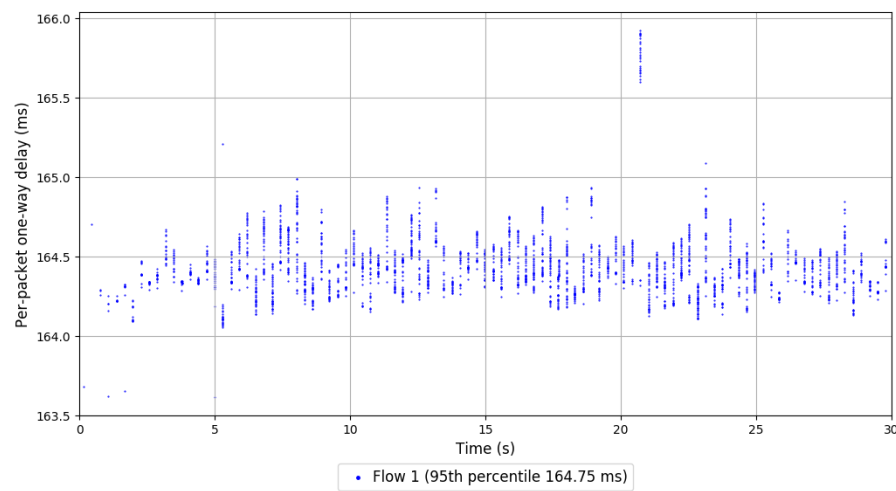
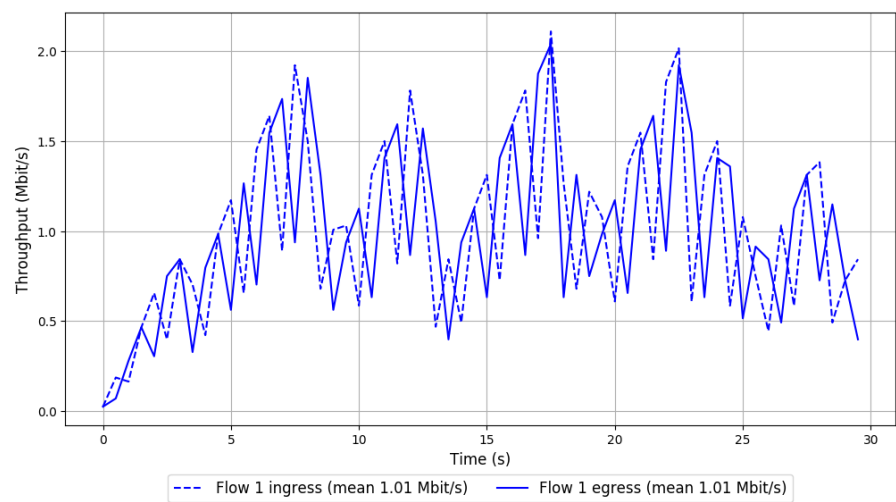
-- Flow 1:

Average throughput: 1.01 Mbit/s

95th percentile per-packet one-way delay: 164.752 ms

Loss rate: 1.12%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-10-11 05:55:30

End at: 2017-10-11 05:56:00

Below is generated by plot.py at 2017-10-11 08:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.47 Mbit/s

95th percentile per-packet one-way delay: 136.721 ms

Loss rate: 2.22%

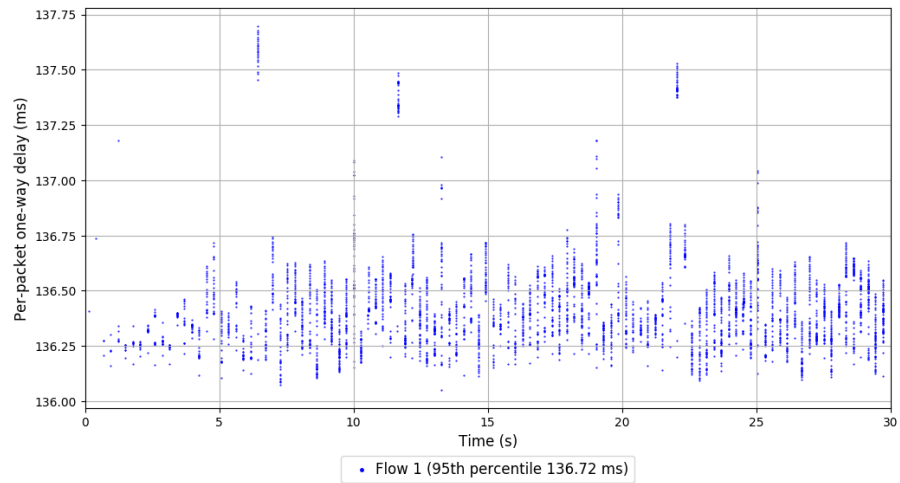
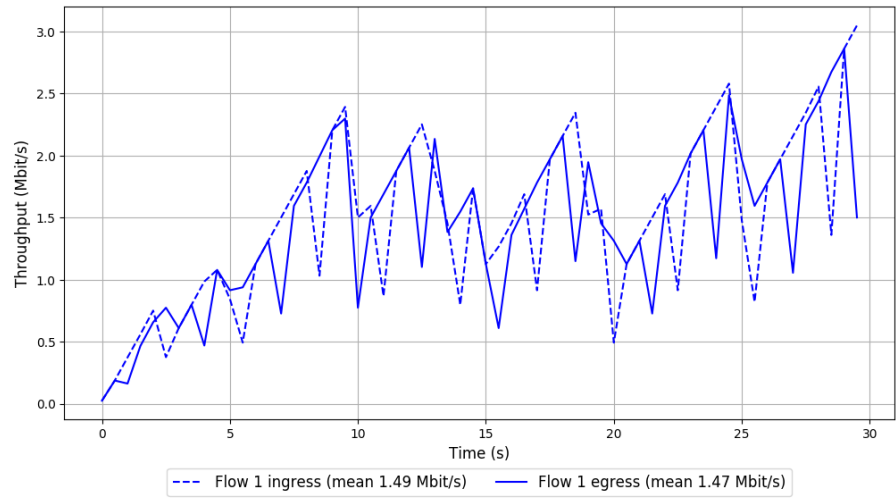
-- Flow 1:

Average throughput: 1.47 Mbit/s

95th percentile per-packet one-way delay: 136.721 ms

Loss rate: 2.22%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-10-11 06:07:12

End at: 2017-10-11 06:07:42

Below is generated by plot.py at 2017-10-11 08:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.53 Mbit/s

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

Loss rate: 1.82%

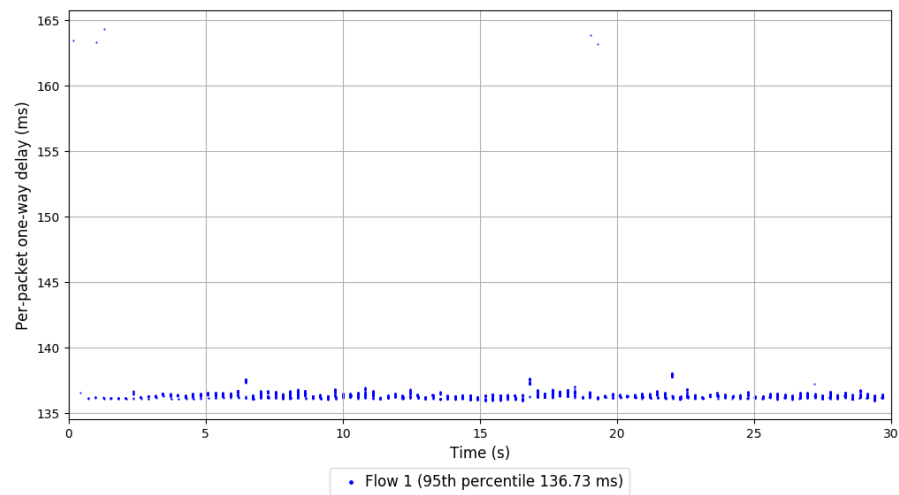
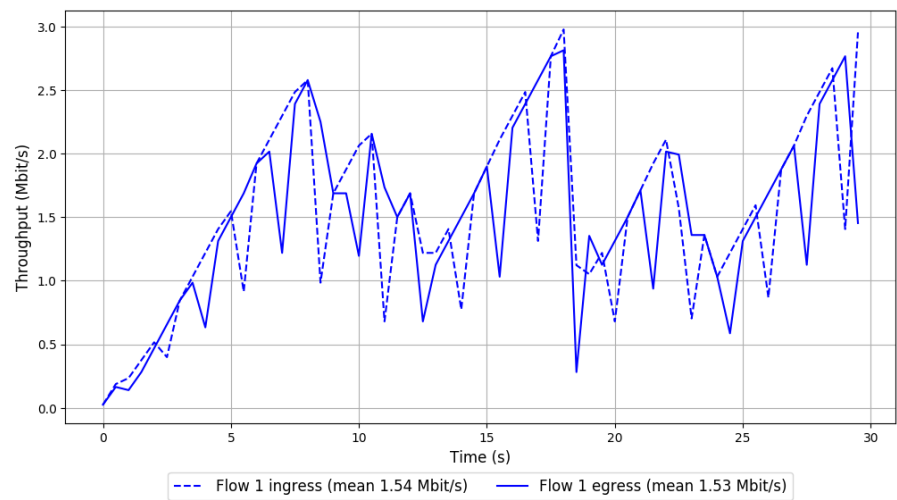
-- Flow 1:

Average throughput: 1.53 Mbit/s

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

Loss rate: 1.82%

Run 10: Report of LEDBAT — Data Link

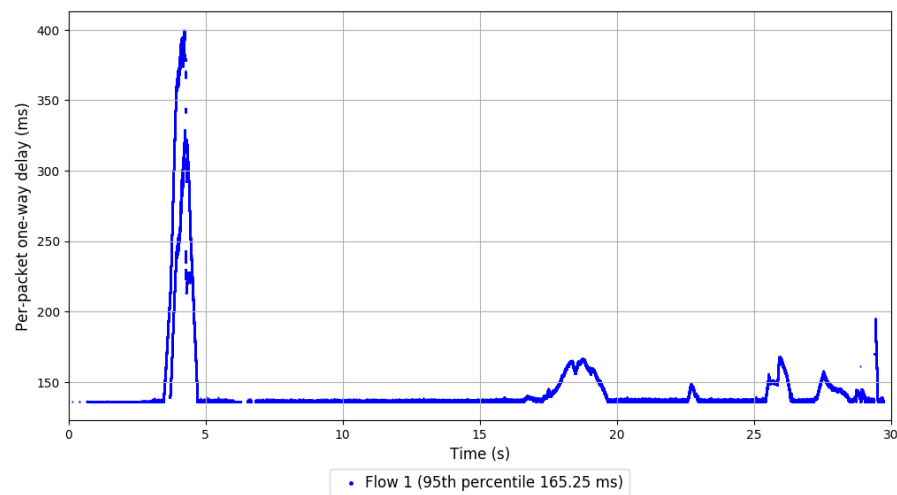
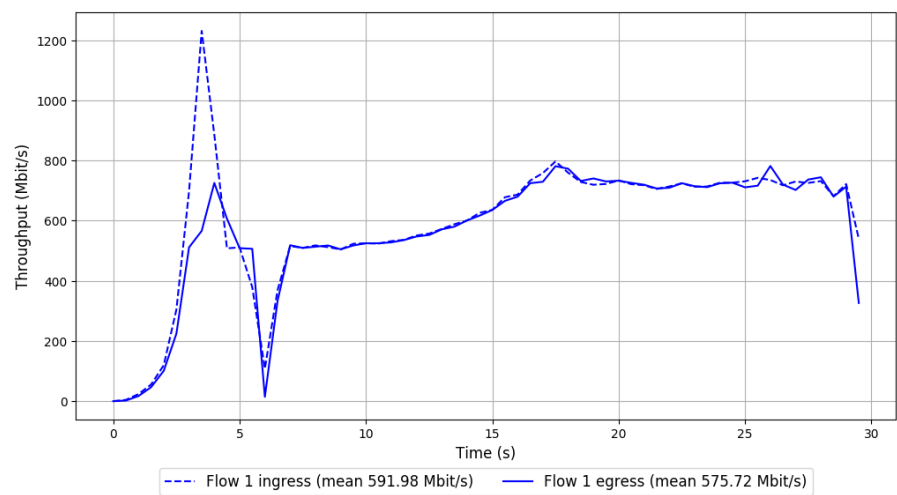


```
Run 1: Statistics of PCC

Start at: 2017-10-11 04:22:36
End at: 2017-10-11 04:23:06

# Below is generated by plot.py at 2017-10-11 08:29:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 575.72 Mbit/s
95th percentile per-packet one-way delay: 165.246 ms
Loss rate: 3.72%
-- Flow 1:
Average throughput: 575.72 Mbit/s
95th percentile per-packet one-way delay: 165.246 ms
Loss rate: 3.72%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-10-11 04:34:50

End at: 2017-10-11 04:35:20

Below is generated by plot.py at 2017-10-11 08:30:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 612.77 Mbit/s

95th percentile per-packet one-way delay: 248.283 ms

Loss rate: 2.77%

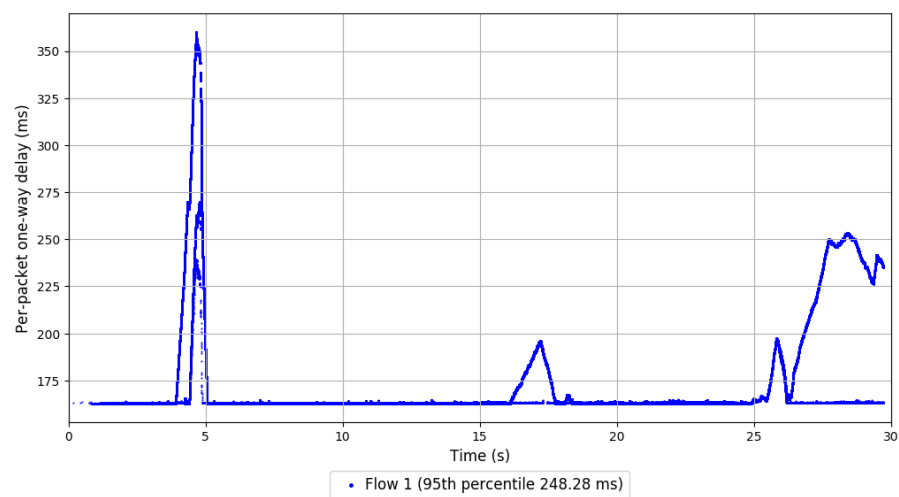
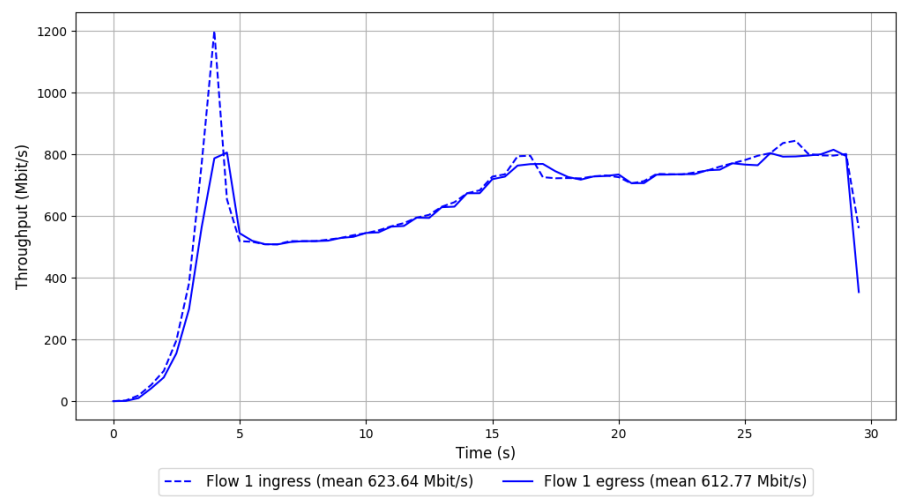
-- Flow 1:

Average throughput: 612.77 Mbit/s

95th percentile per-packet one-way delay: 248.283 ms

Loss rate: 2.77%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-10-11 04:47:13

End at: 2017-10-11 04:47:43

Below is generated by plot.py at 2017-10-11 08:30:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 582.83 Mbit/s

95th percentile per-packet one-way delay: 217.654 ms

Loss rate: 2.75%

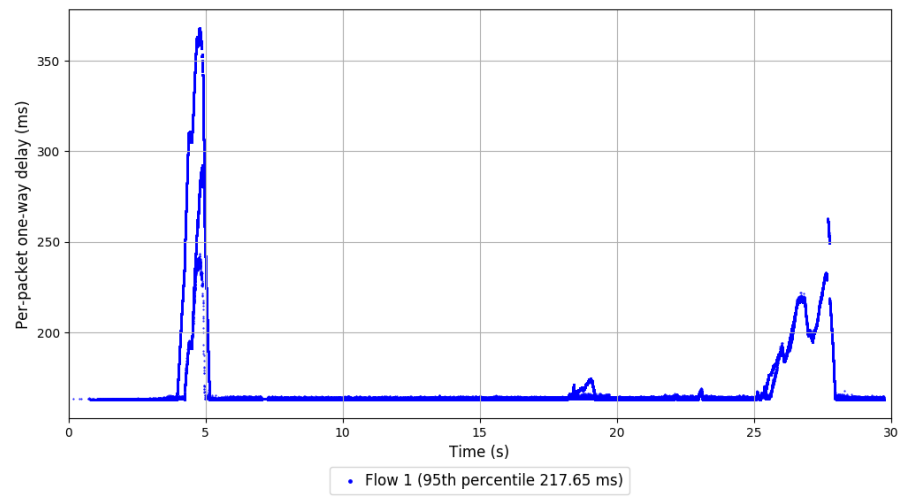
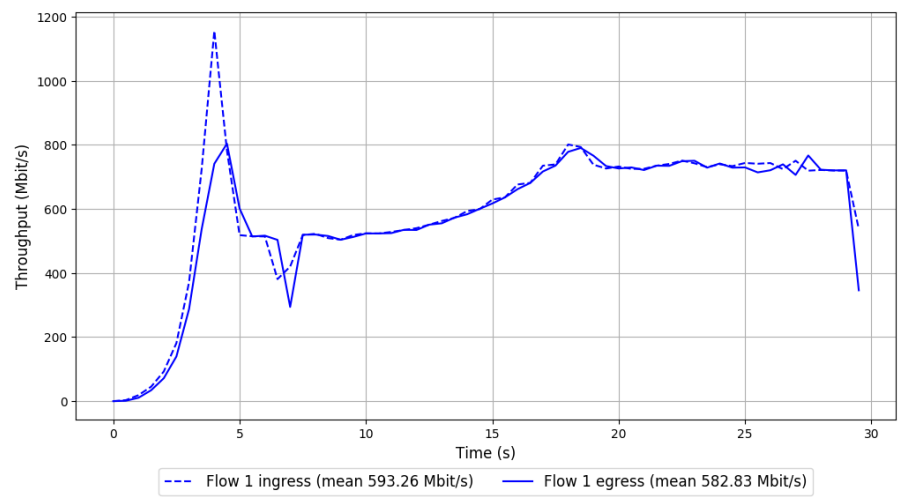
-- Flow 1:

Average throughput: 582.83 Mbit/s

95th percentile per-packet one-way delay: 217.654 ms

Loss rate: 2.75%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-10-11 04:59:18

End at: 2017-10-11 04:59:48

Below is generated by plot.py at 2017-10-11 08:30:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 567.88 Mbit/s

95th percentile per-packet one-way delay: 236.826 ms

Loss rate: 3.58%

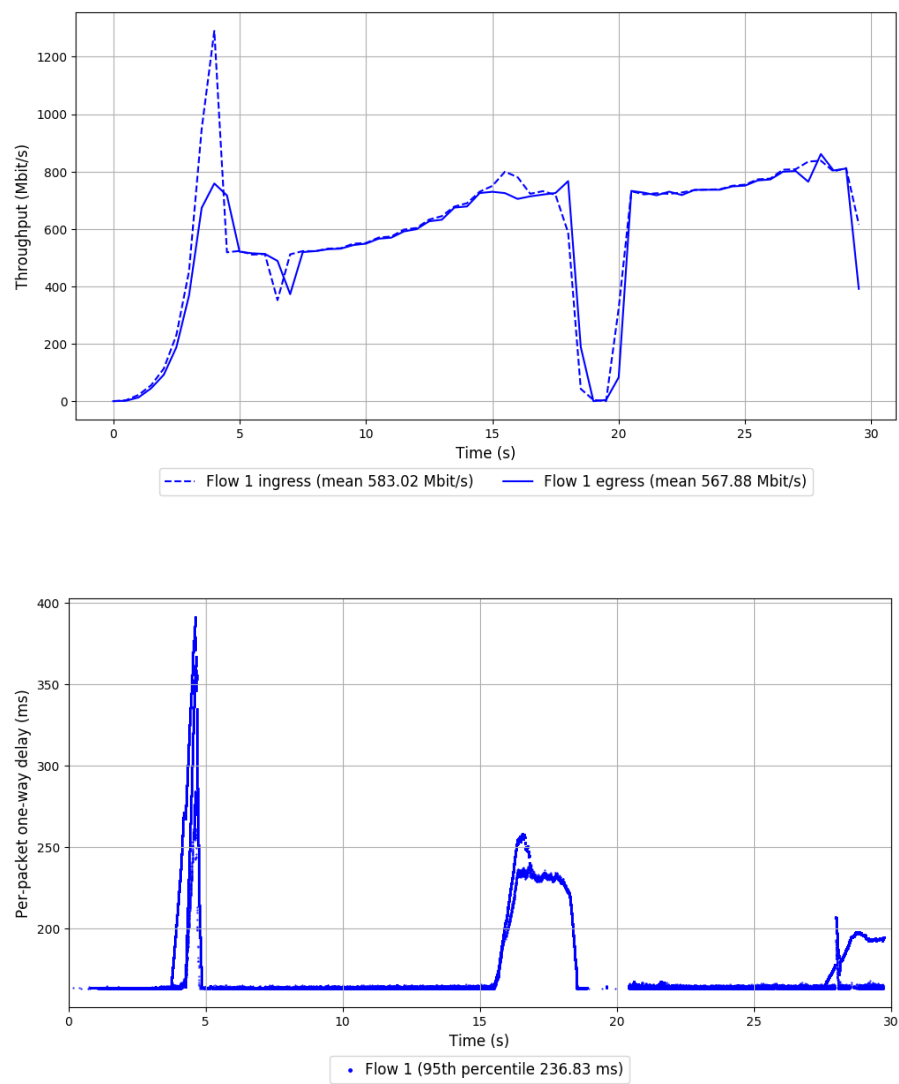
-- Flow 1:

Average throughput: 567.88 Mbit/s

95th percentile per-packet one-way delay: 236.826 ms

Loss rate: 3.58%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-10-11 05:10:37

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

Below is generated by plot.py at 2017-10-11 08:30:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.18 Mbit/s

95th percentile per-packet one-way delay: 163.811 ms

Loss rate: 1.35%

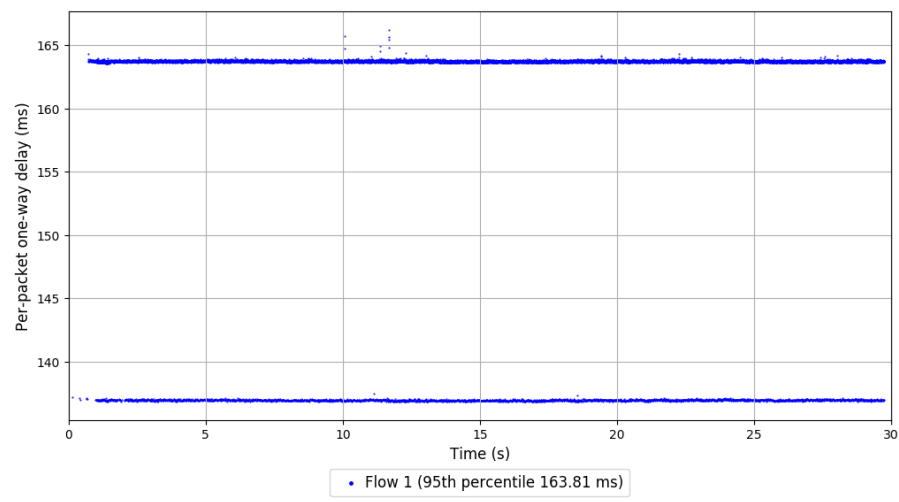
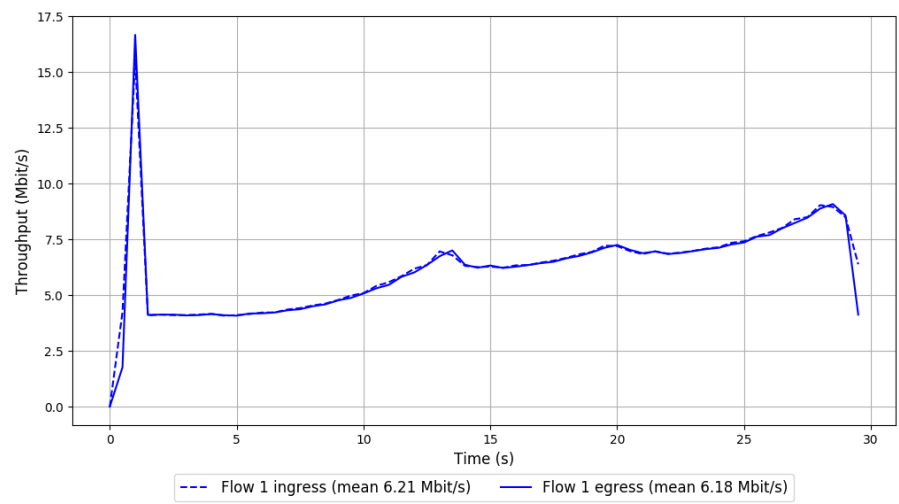
-- Flow 1:

Average throughput: 6.18 Mbit/s

95th percentile per-packet one-way delay: 163.811 ms

Loss rate: 1.35%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-10-11 05:22:14

End at: 2017-10-11 05:22:44

Below is generated by plot.py at 2017-10-11 08:30:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 570.82 Mbit/s

95th percentile per-packet one-way delay: 301.936 ms

Loss rate: 5.20%

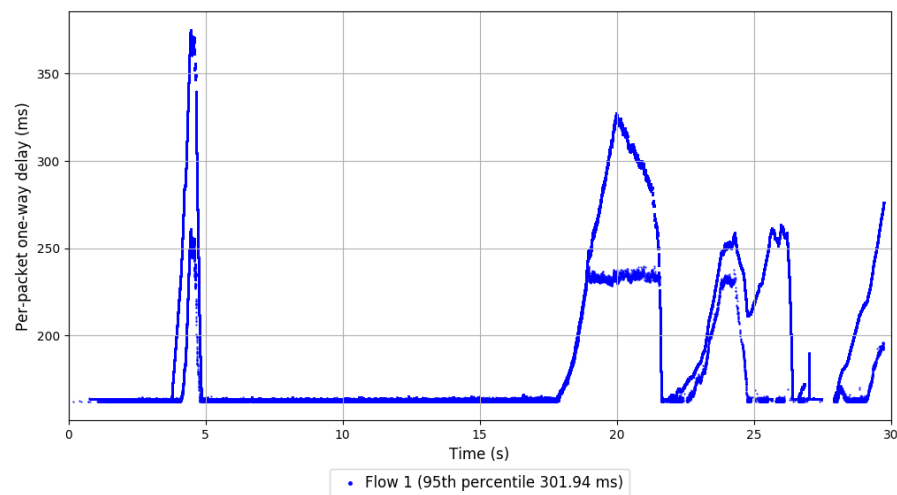
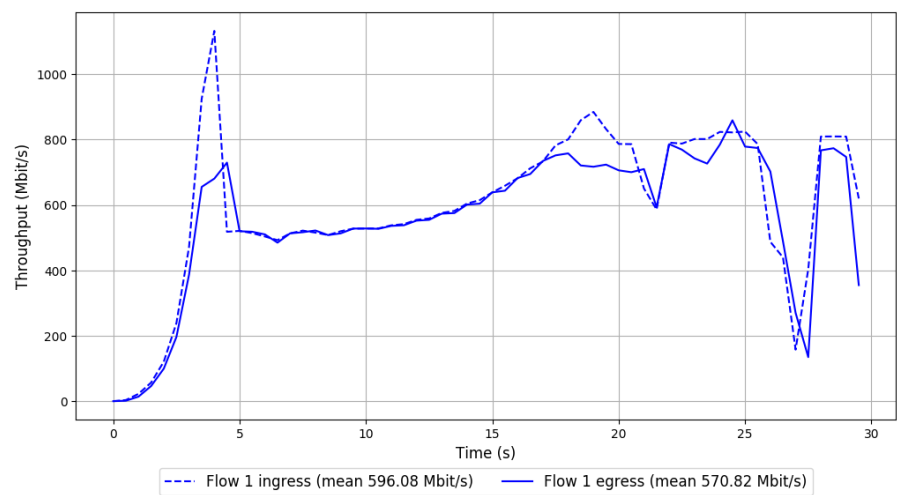
-- Flow 1:

Average throughput: 570.82 Mbit/s

95th percentile per-packet one-way delay: 301.936 ms

Loss rate: 5.20%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-10-11 05:34:05

End at: 2017-10-11 05:34:35

Below is generated by plot.py at 2017-10-11 08:30:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.39 Mbit/s

95th percentile per-packet one-way delay: 164.209 ms

Loss rate: 1.27%

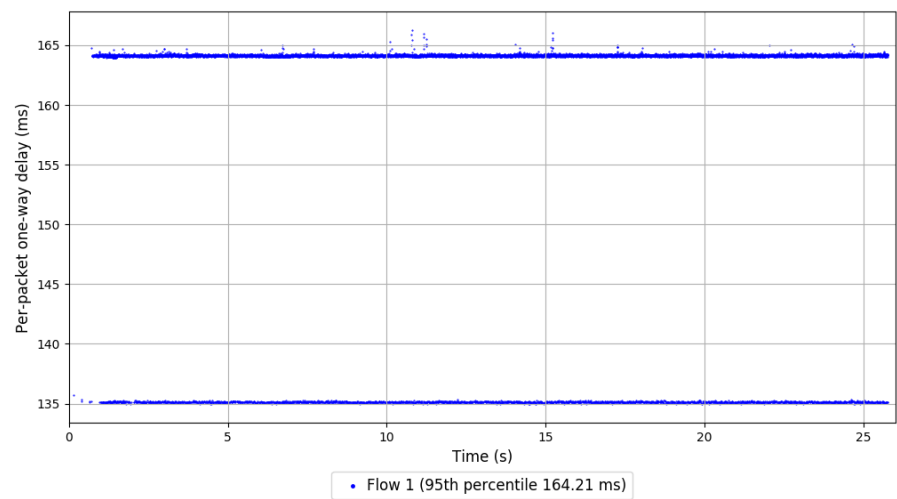
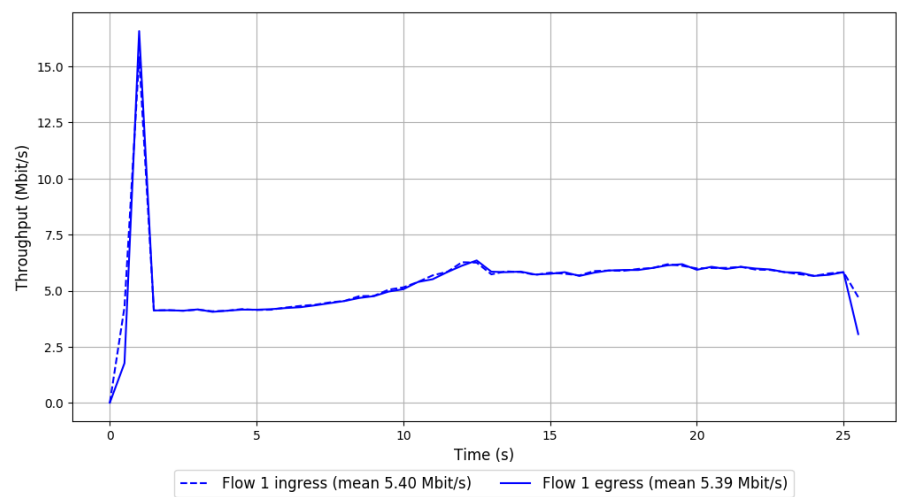
-- Flow 1:

Average throughput: 5.39 Mbit/s

95th percentile per-packet one-way delay: 164.209 ms

Loss rate: 1.27%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-10-11 05:45:22

End at: 2017-10-11 05:45:52

Below is generated by plot.py at 2017-10-11 08:30:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.65 Mbit/s

95th percentile per-packet one-way delay: 164.152 ms

Loss rate: 2.16%

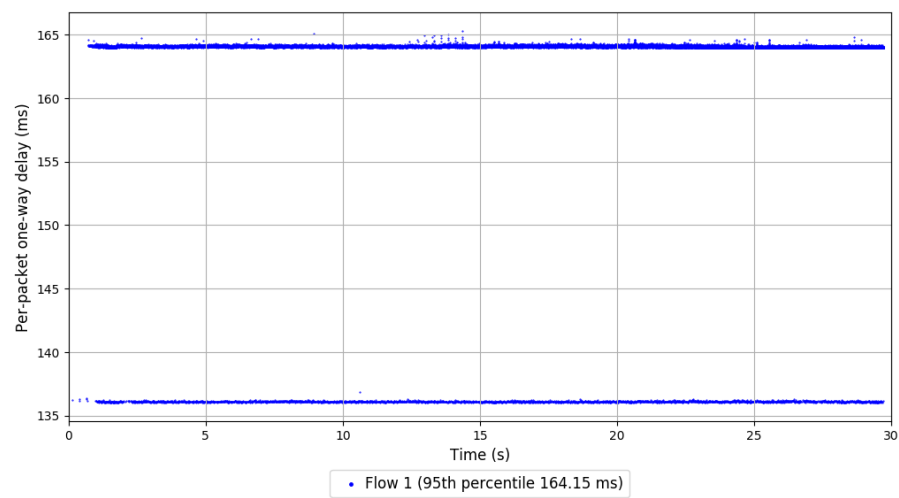
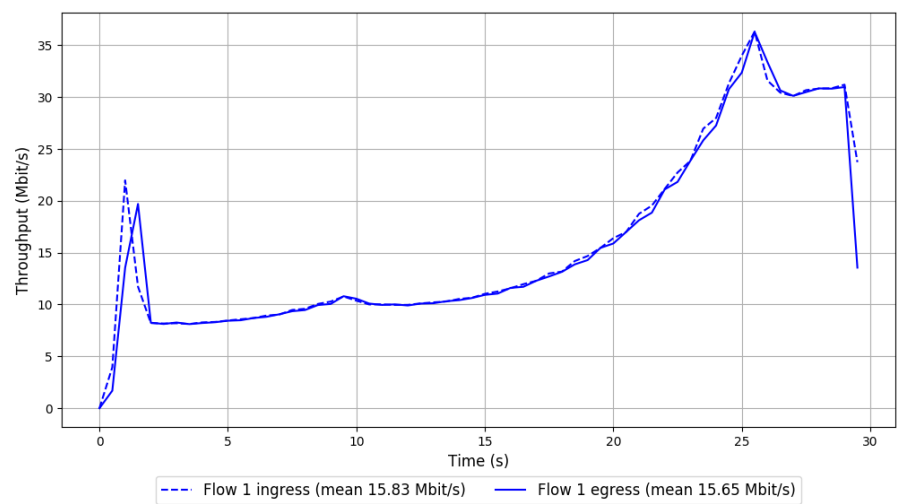
-- Flow 1:

Average throughput: 15.65 Mbit/s

95th percentile per-packet one-way delay: 164.152 ms

Loss rate: 2.16%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-10-11 05:56:57

End at: 2017-10-11 05:57:27

Below is generated by plot.py at 2017-10-11 08:30:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 575.17 Mbit/s

95th percentile per-packet one-way delay: 182.334 ms

Loss rate: 2.77%

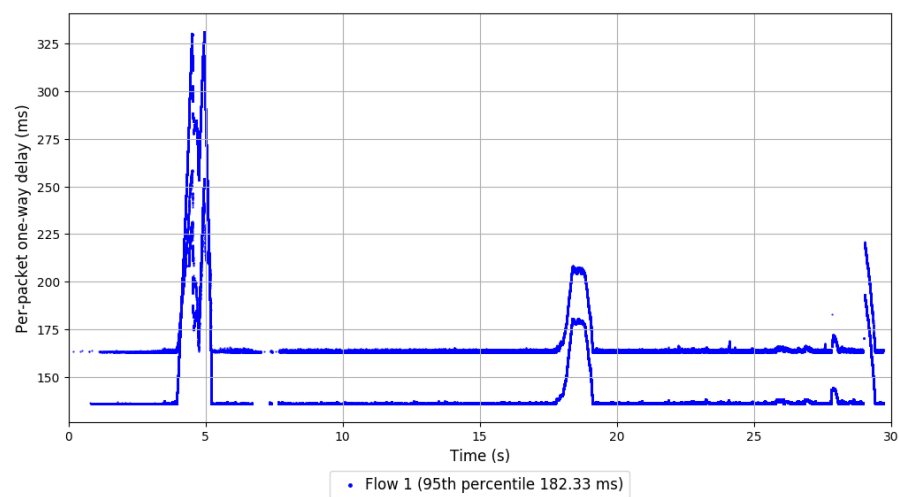
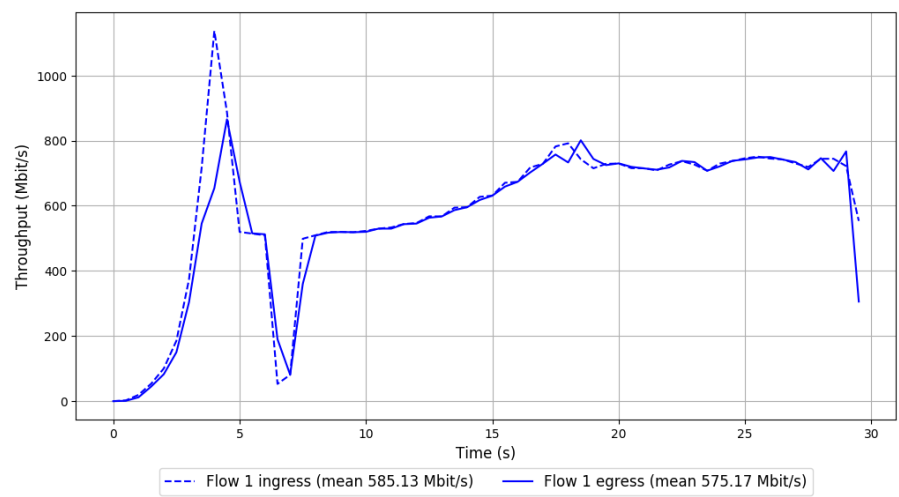
-- Flow 1:

Average throughput: 575.17 Mbit/s

95th percentile per-packet one-way delay: 182.334 ms

Loss rate: 2.77%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-10-11 06:08:46

End at: 2017-10-11 06:09:16

Below is generated by plot.py at 2017-10-11 08:30:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 544.66 Mbit/s

95th percentile per-packet one-way delay: 186.502 ms

Loss rate: 2.91%

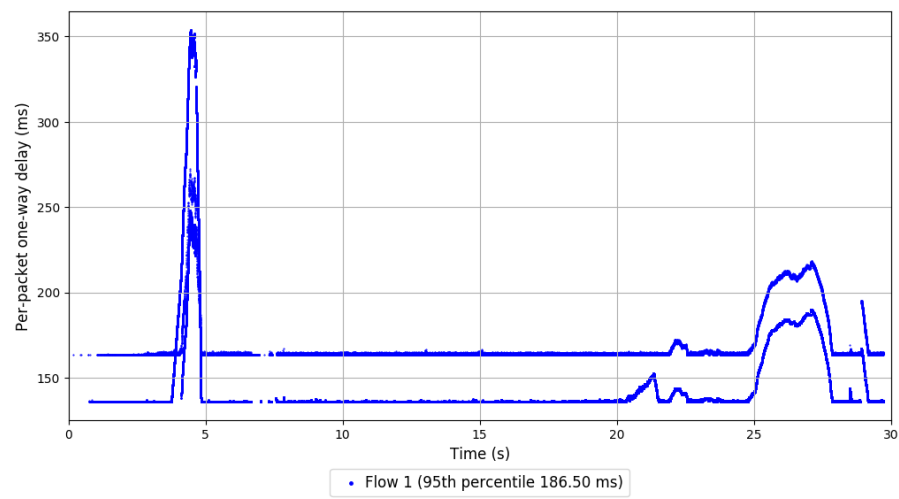
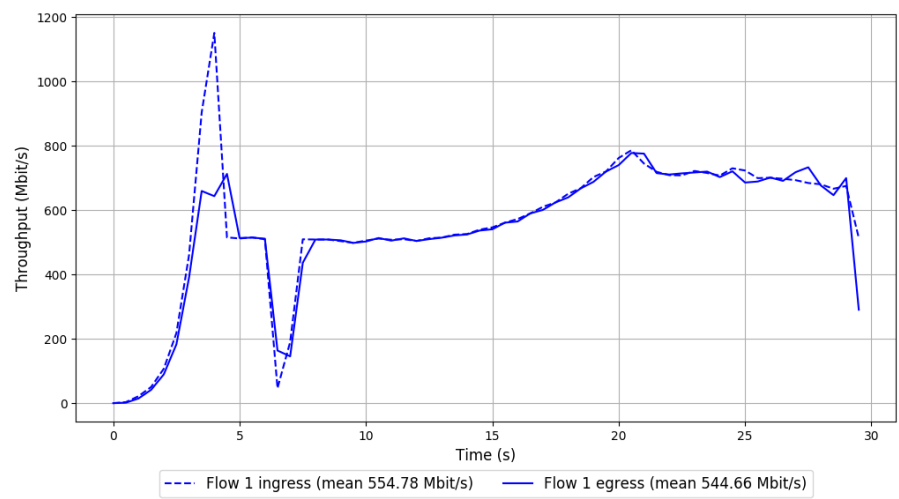
-- Flow 1:

Average throughput: 544.66 Mbit/s

95th percentile per-packet one-way delay: 186.502 ms

Loss rate: 2.91%

Run 10: Report of PCC — Data Link

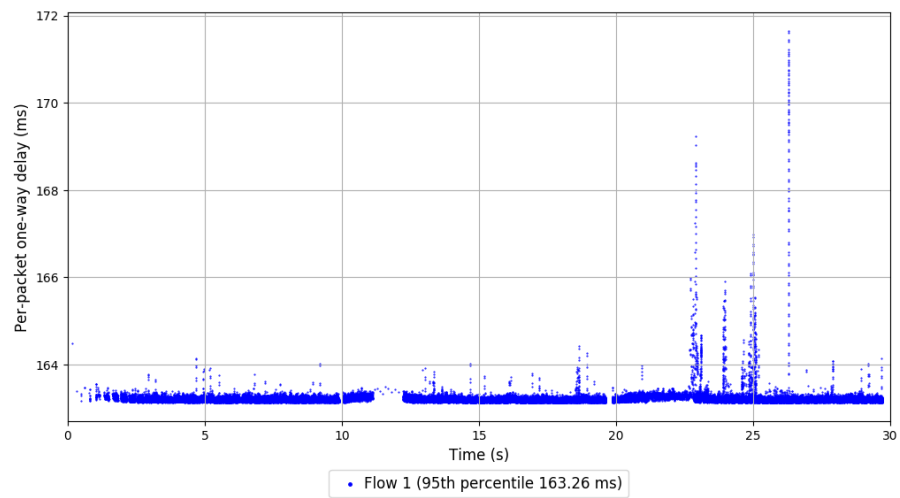
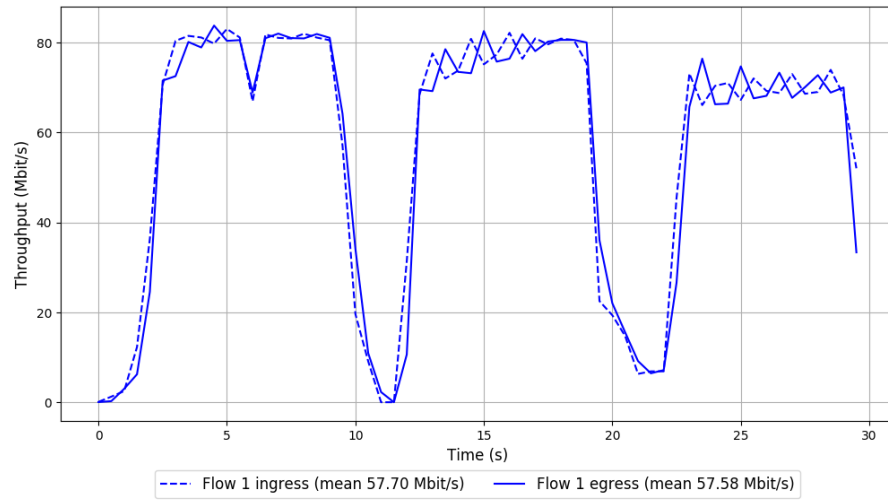


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-10-11 04:20:10
End at: 2017-10-11 04:20:40

# Below is generated by plot.py at 2017-10-11 08:30:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.58 Mbit/s
95th percentile per-packet one-way delay: 163.263 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 57.58 Mbit/s
95th percentile per-packet one-way delay: 163.263 ms
Loss rate: 1.23%
```


Run 1: Report of QUIC Cubic — Data Link

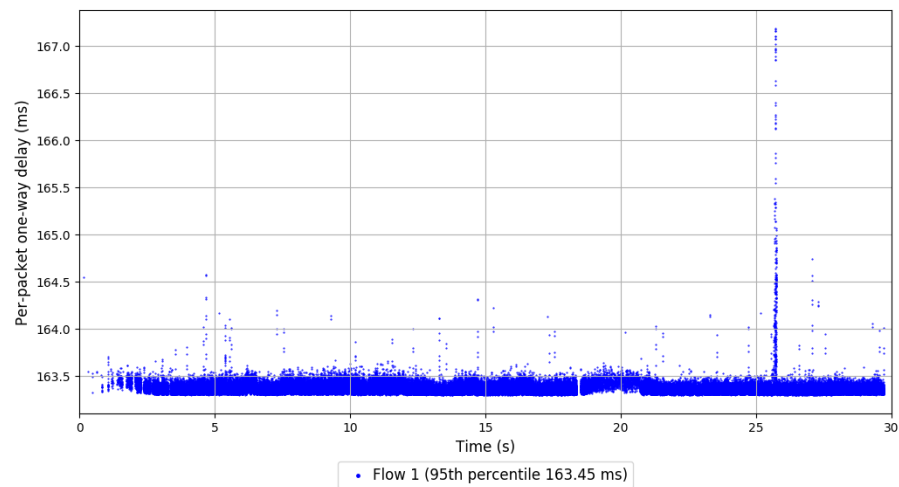
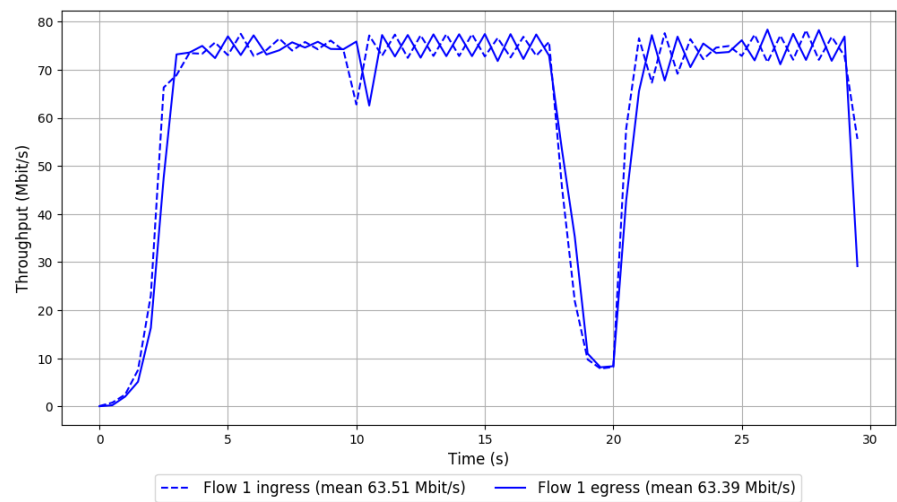


```
Run 2: Statistics of QUIC Cubic

Start at: 2017-10-11 04:32:32
End at: 2017-10-11 04:33:02

# Below is generated by plot.py at 2017-10-11 08:30:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.39 Mbit/s
95th percentile per-packet one-way delay: 163.446 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 63.39 Mbit/s
95th percentile per-packet one-way delay: 163.446 ms
Loss rate: 1.29%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-10-11 04:44:49

End at: 2017-10-11 04:45:19

Below is generated by plot.py at 2017-10-11 08:30:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.11 Mbit/s

95th percentile per-packet one-way delay: 163.055 ms

Loss rate: 1.20%

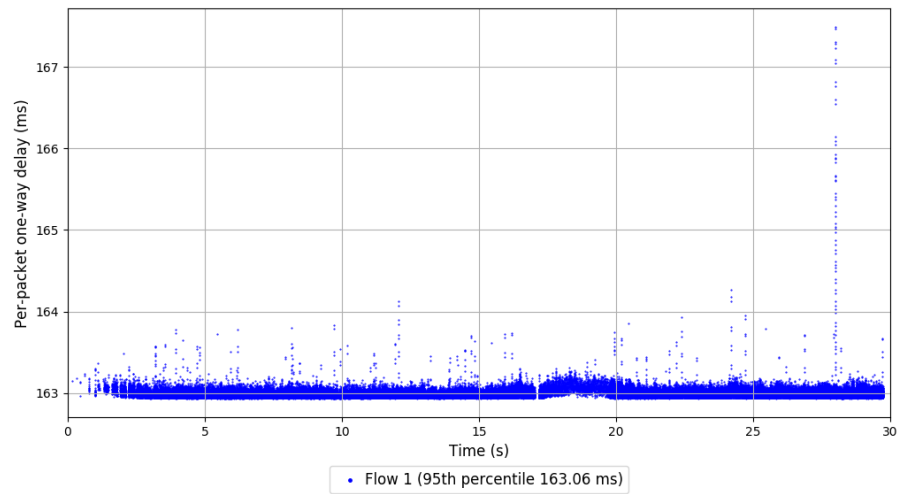
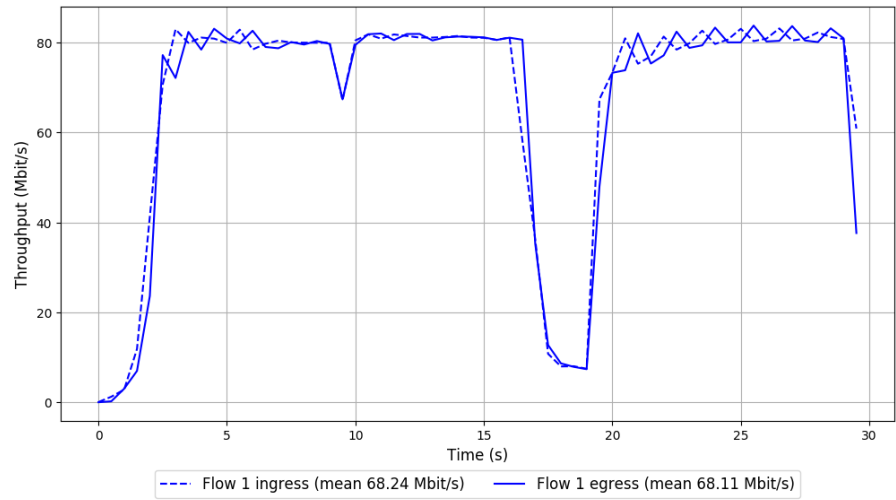
-- Flow 1:

Average throughput: 68.11 Mbit/s

95th percentile per-packet one-way delay: 163.055 ms

Loss rate: 1.20%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-10-11 04:56:55

End at: 2017-10-11 04:57:25

Below is generated by plot.py at 2017-10-11 08:30:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.56 Mbit/s

95th percentile per-packet one-way delay: 163.051 ms

Loss rate: 1.19%

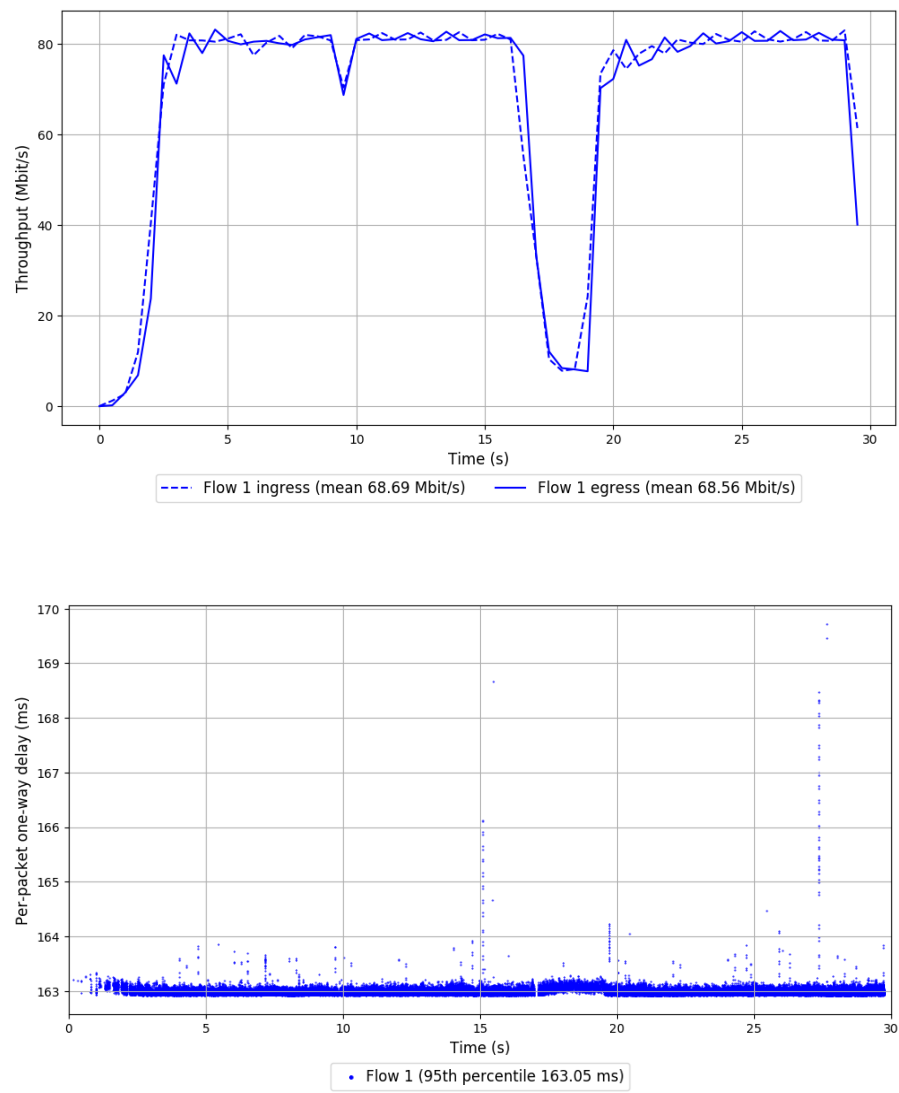
-- Flow 1:

Average throughput: 68.56 Mbit/s

95th percentile per-packet one-way delay: 163.051 ms

Loss rate: 1.19%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-10-11 05:08:20

End at: 2017-10-11 05:08:50

Below is generated by plot.py at 2017-10-11 08:30:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.84 Mbit/s

95th percentile per-packet one-way delay: 163.455 ms

Loss rate: 1.19%

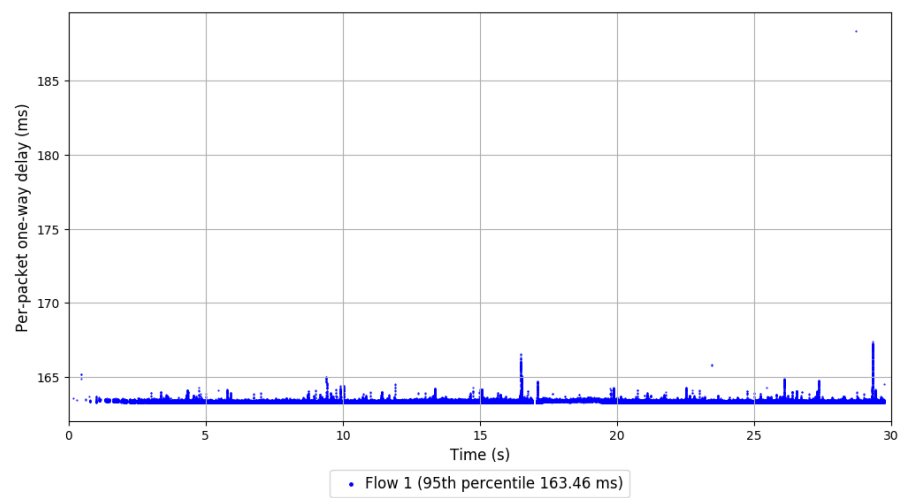
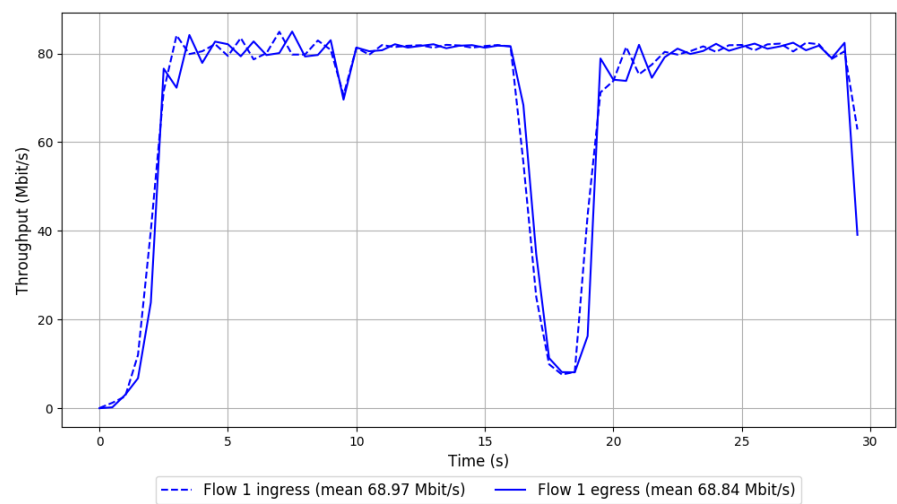
-- Flow 1:

Average throughput: 68.84 Mbit/s

95th percentile per-packet one-way delay: 163.455 ms

Loss rate: 1.19%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-10-11 05:19:51

End at: 2017-10-11 05:20:21

Below is generated by plot.py at 2017-10-11 08:30:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.41 Mbit/s

95th percentile per-packet one-way delay: 163.997 ms

Loss rate: 1.19%

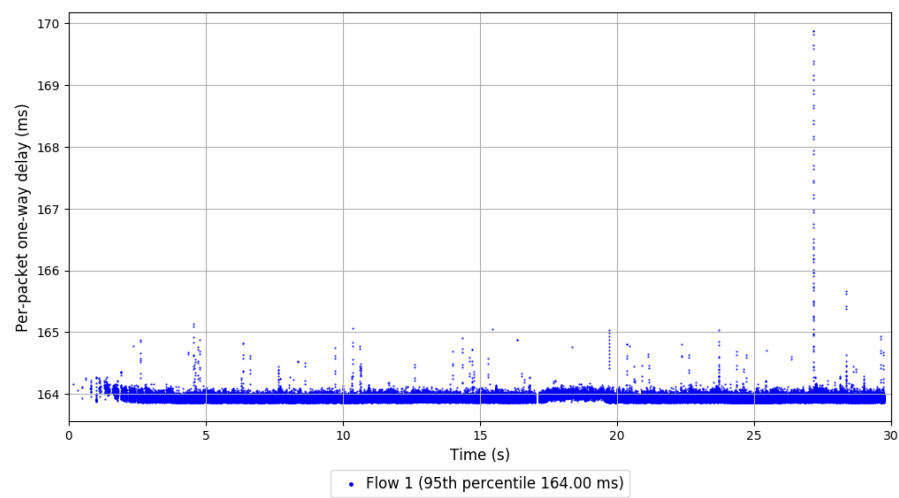
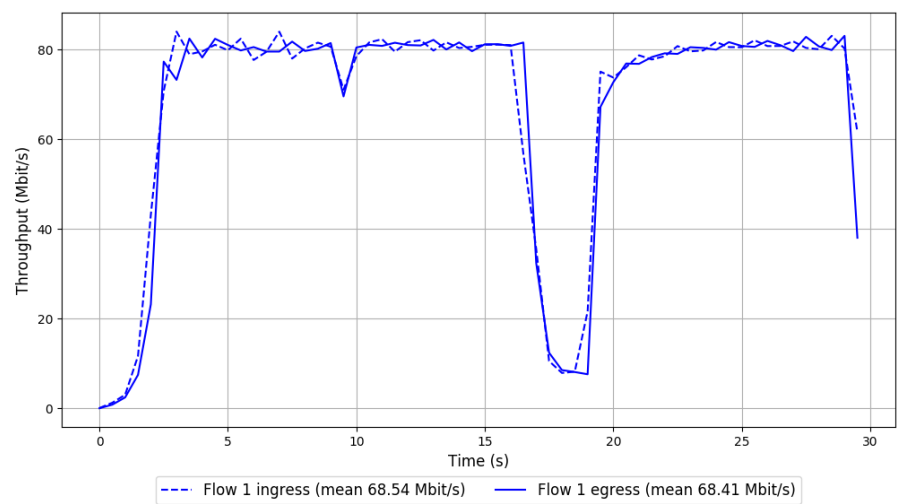
-- Flow 1:

Average throughput: 68.41 Mbit/s

95th percentile per-packet one-way delay: 163.997 ms

Loss rate: 1.19%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-10-11 05:31:52

End at: 2017-10-11 05:32:22

Below is generated by plot.py at 2017-10-11 08:30:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.71 Mbit/s

95th percentile per-packet one-way delay: 164.089 ms

Loss rate: 1.35%

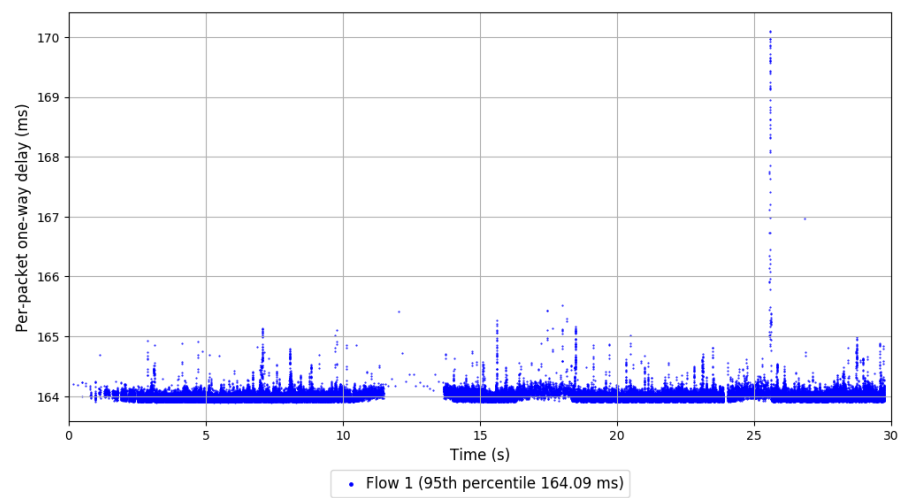
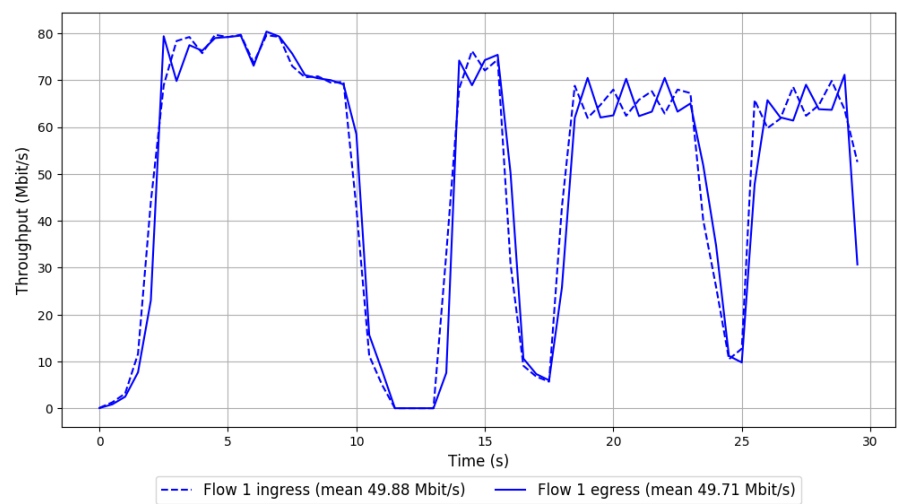
-- Flow 1:

Average throughput: 49.71 Mbit/s

95th percentile per-packet one-way delay: 164.089 ms

Loss rate: 1.35%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-10-11 05:42:56

End at: 2017-10-11 05:43:27

Below is generated by plot.py at 2017-10-11 08:30:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.44 Mbit/s

95th percentile per-packet one-way delay: 135.760 ms

Loss rate: 1.26%

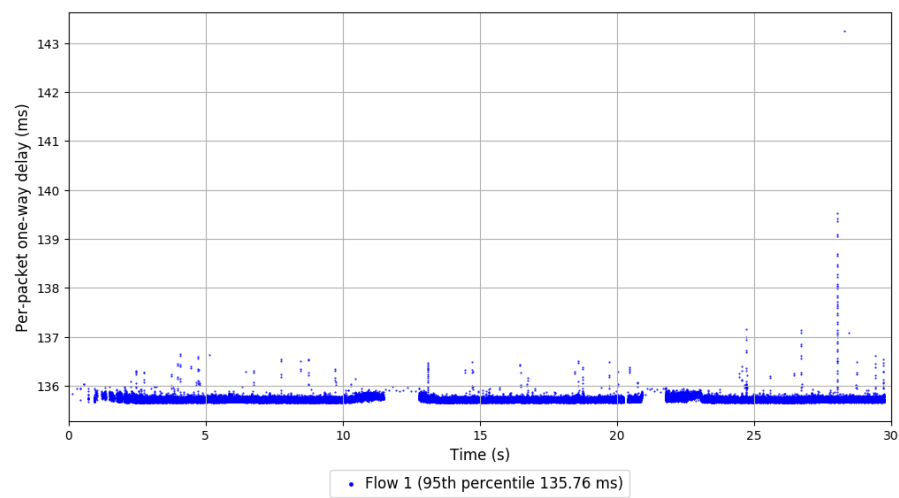
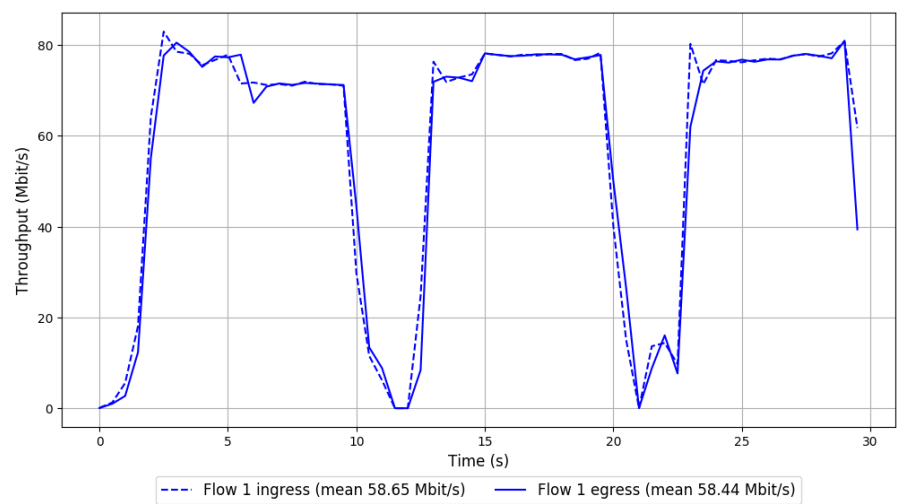
-- Flow 1:

Average throughput: 58.44 Mbit/s

95th percentile per-packet one-way delay: 135.760 ms

Loss rate: 1.26%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-10-11 05:54:40

End at: 2017-10-11 05:55:10

Below is generated by plot.py at 2017-10-11 08:30:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.64 Mbit/s

95th percentile per-packet one-way delay: 135.017 ms

Loss rate: 1.01%

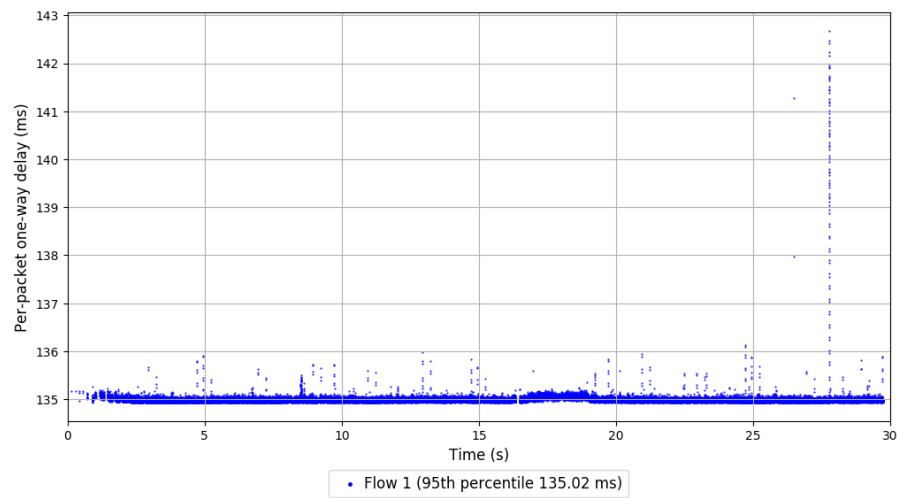
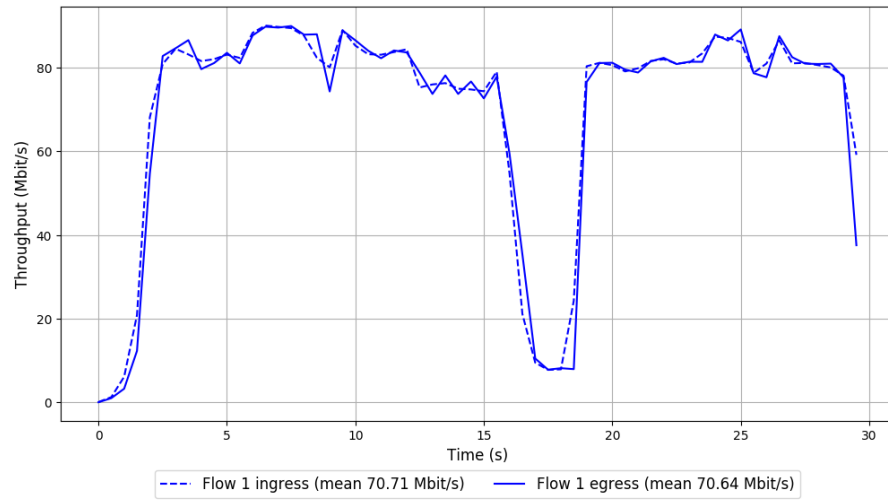
-- Flow 1:

Average throughput: 70.64 Mbit/s

95th percentile per-packet one-way delay: 135.017 ms

Loss rate: 1.01%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

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

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

Below is generated by plot.py at 2017-10-11 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.81 Mbit/s

95th percentile per-packet one-way delay: 135.844 ms

Loss rate: 1.07%

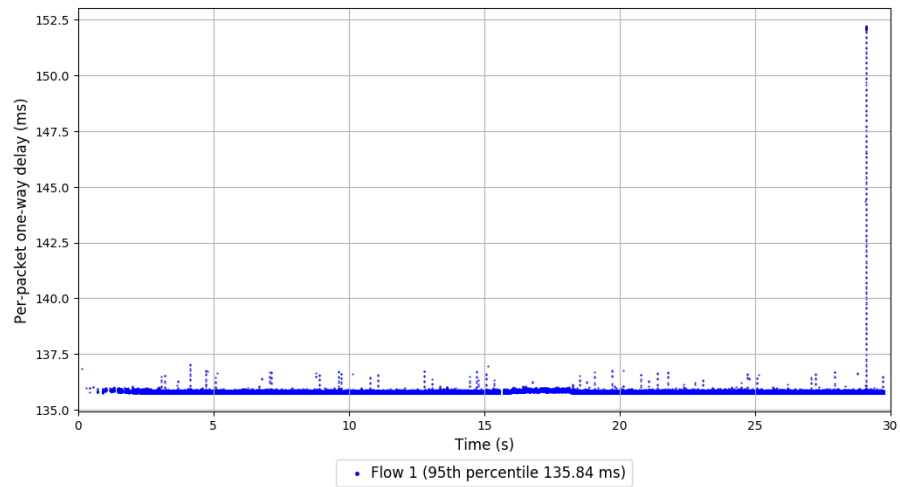
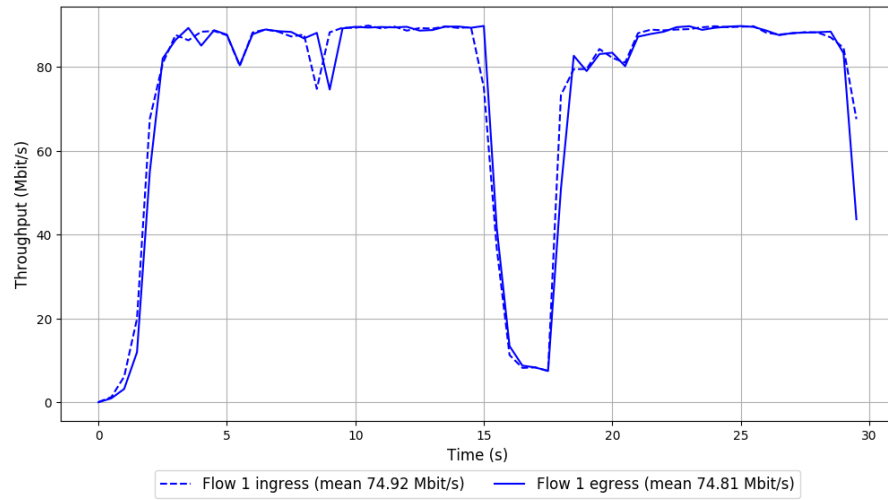
-- Flow 1:

Average throughput: 74.81 Mbit/s

95th percentile per-packet one-way delay: 135.844 ms

Loss rate: 1.07%

Run 10: Report of QUIC Cubic — Data Link

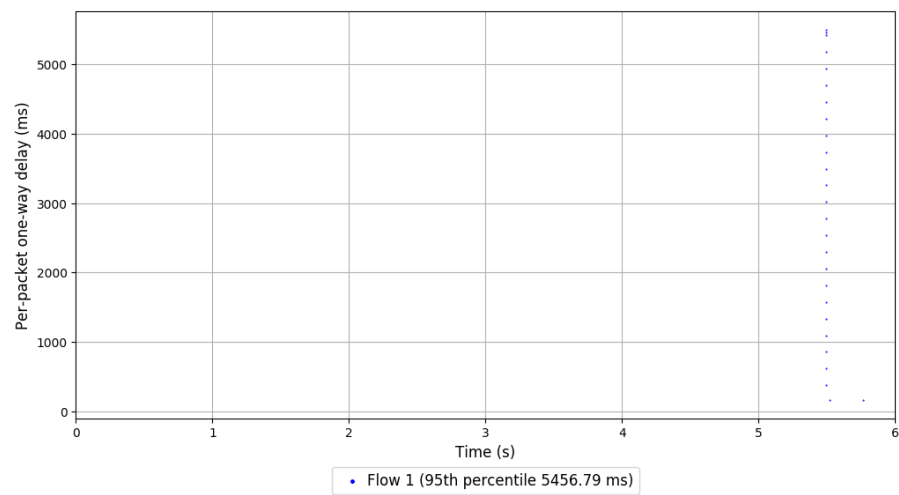
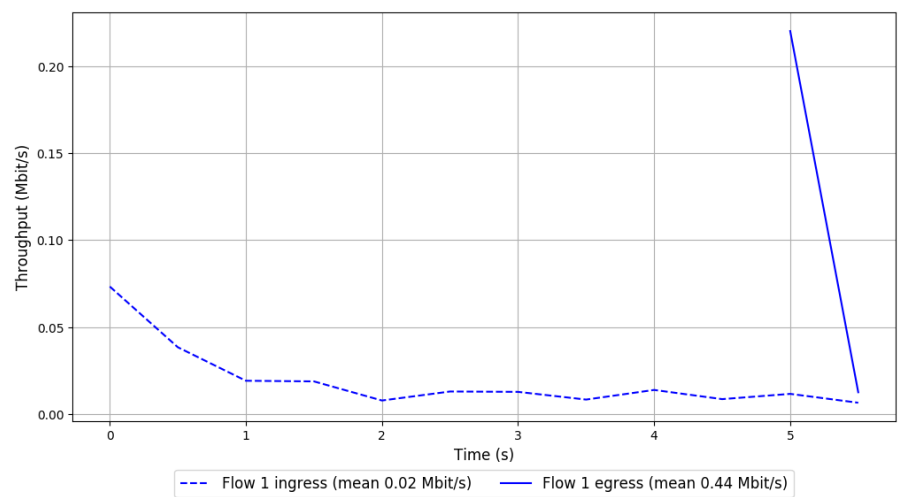


Run 1: Statistics of SReAM

Start at: 2017-10-11 04:24:56

End at: 2017-10-11 04:25:26

Run 1: Report of SReAM — Data Link

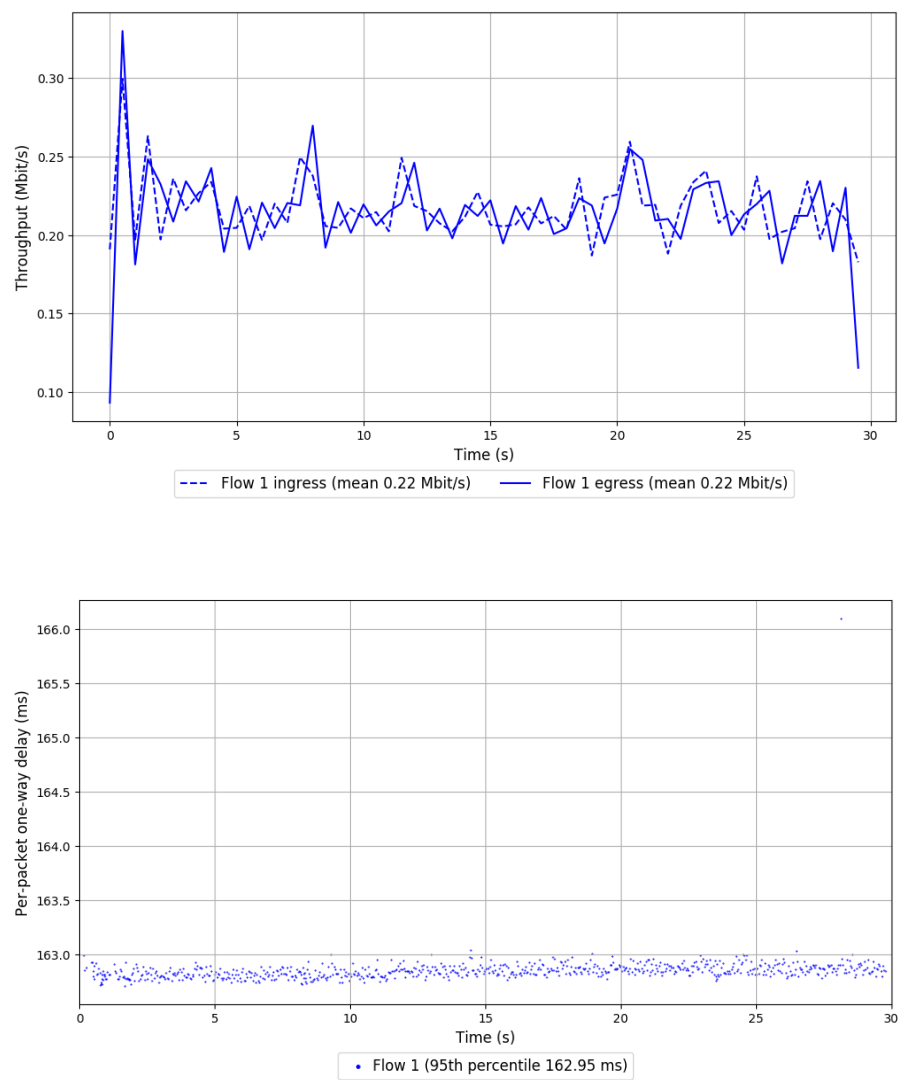


```
Run 2: Statistics of SCReAM

Start at: 2017-10-11 04:37:10
End at: 2017-10-11 04:37:40

# Below is generated by plot.py at 2017-10-11 08:30:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 162.949 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 162.949 ms
Loss rate: 1.03%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-10-11 04:49:29

End at: 2017-10-11 04:49:59

Below is generated by plot.py at 2017-10-11 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.188 ms

Loss rate: 0.89%

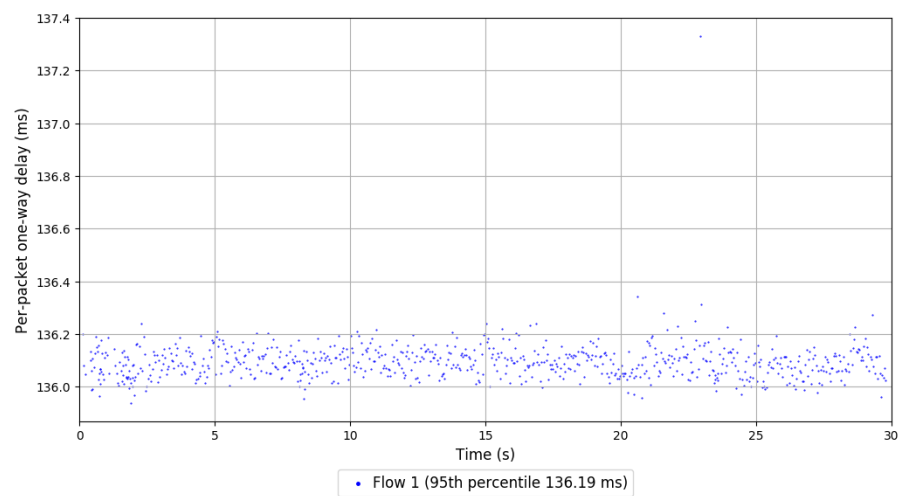
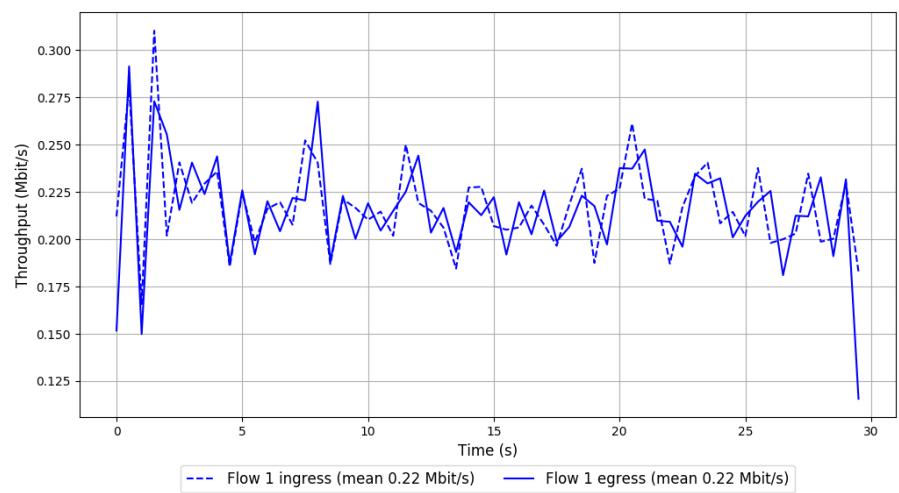
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.188 ms

Loss rate: 0.89%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

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

End at: 2017-10-11 05:01:41

Below is generated by plot.py at 2017-10-11 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 162.970 ms

Loss rate: 1.01%

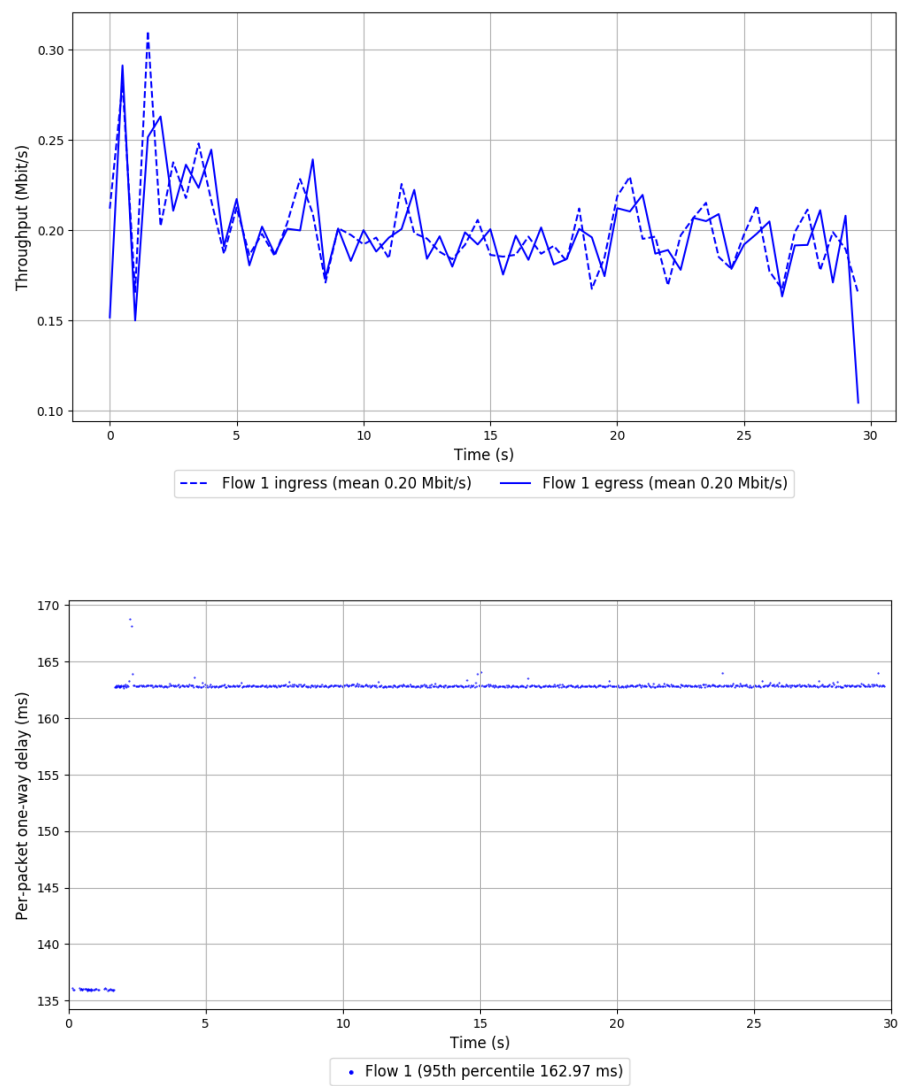
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 162.970 ms

Loss rate: 1.01%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-10-11 05:12:28

End at: 2017-10-11 05:12:58

Below is generated by plot.py at 2017-10-11 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 164.311 ms

Loss rate: 1.03%

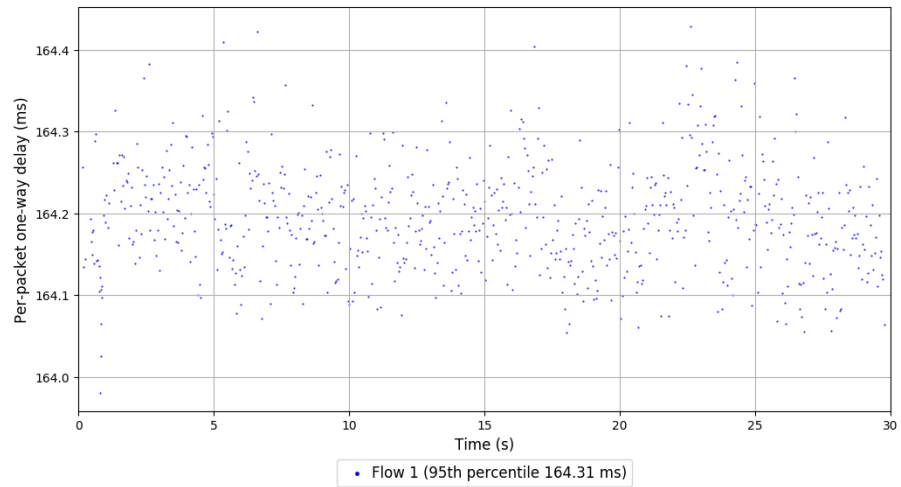
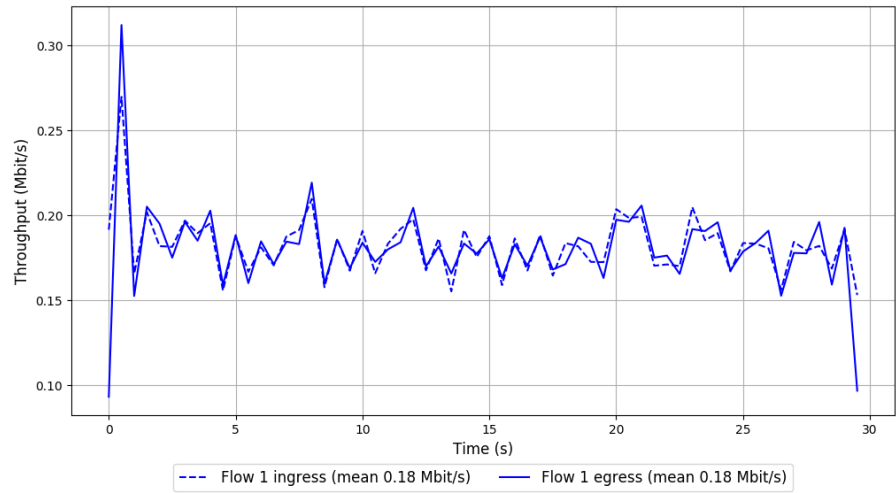
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 164.311 ms

Loss rate: 1.03%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-10-11 05:24:31

End at: 2017-10-11 05:25:01

Below is generated by plot.py at 2017-10-11 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 162.582 ms

Loss rate: 0.89%

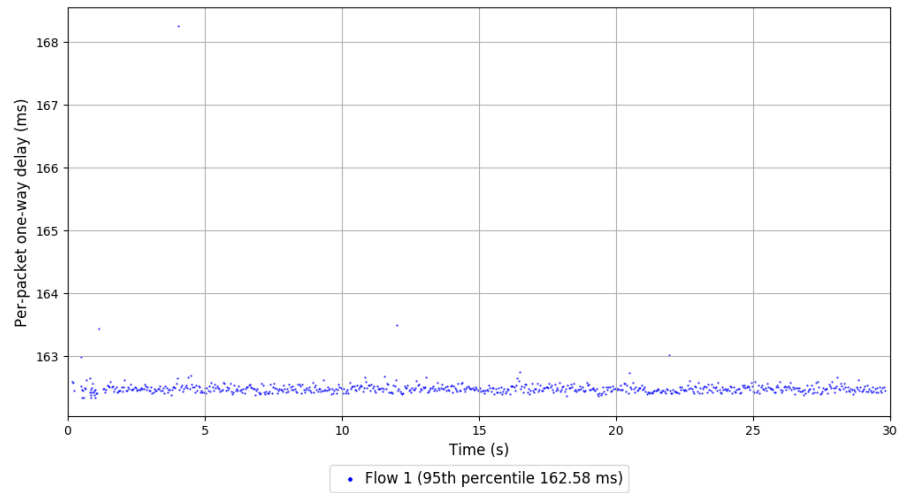
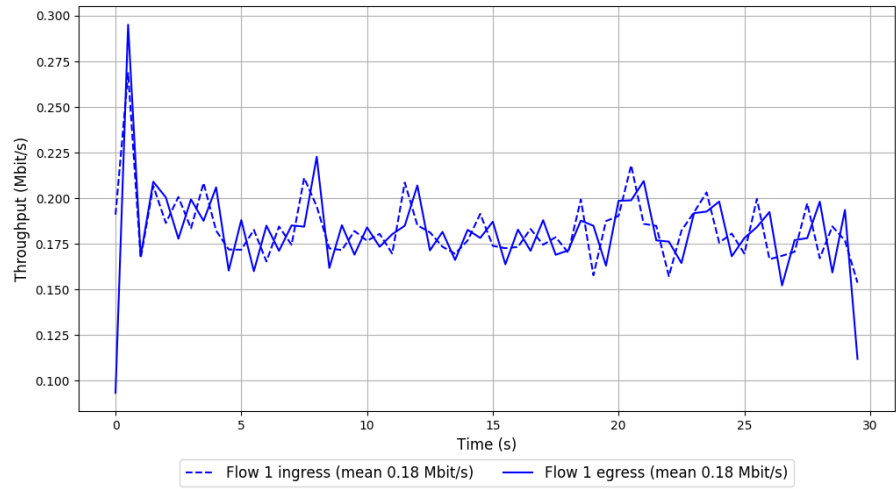
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 162.582 ms

Loss rate: 0.89%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-10-11 05:35:41

End at: 2017-10-11 05:36:11

Below is generated by plot.py at 2017-10-11 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 163.654 ms

Loss rate: 1.03%

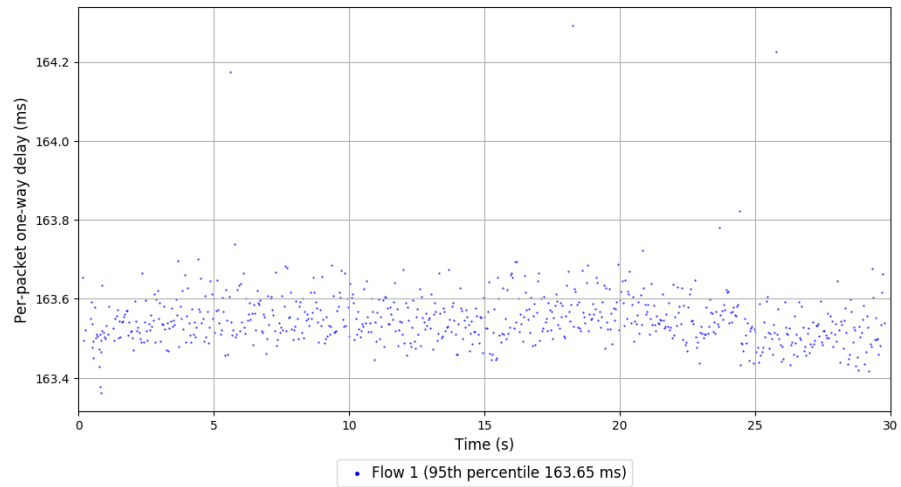
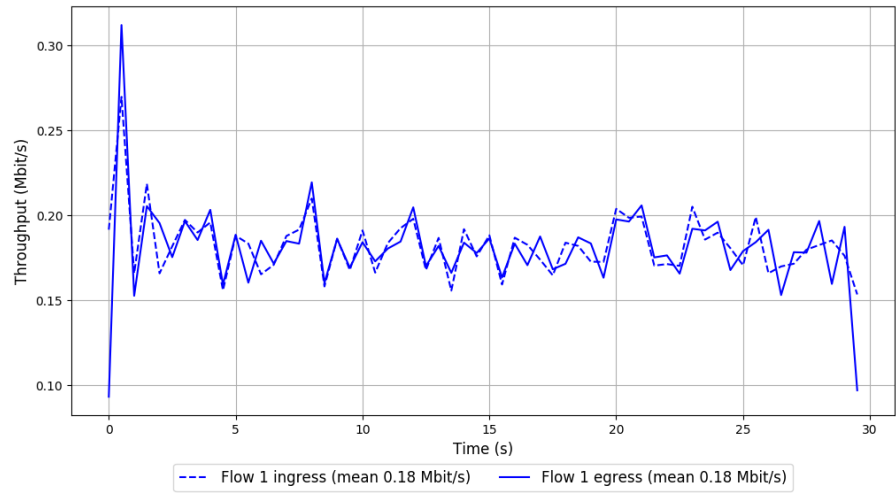
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 163.654 ms

Loss rate: 1.03%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-10-11 05:47:17

End at: 2017-10-11 05:47:47

Below is generated by plot.py at 2017-10-11 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 164.442 ms

Loss rate: 1.03%

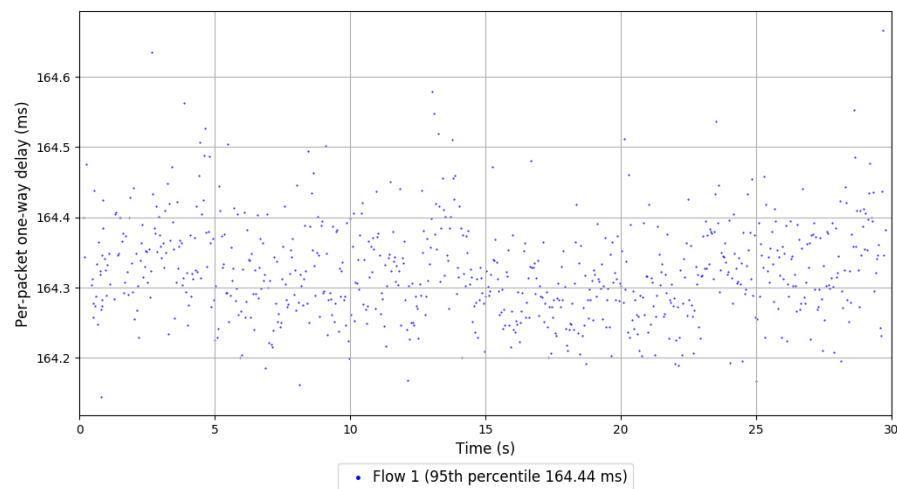
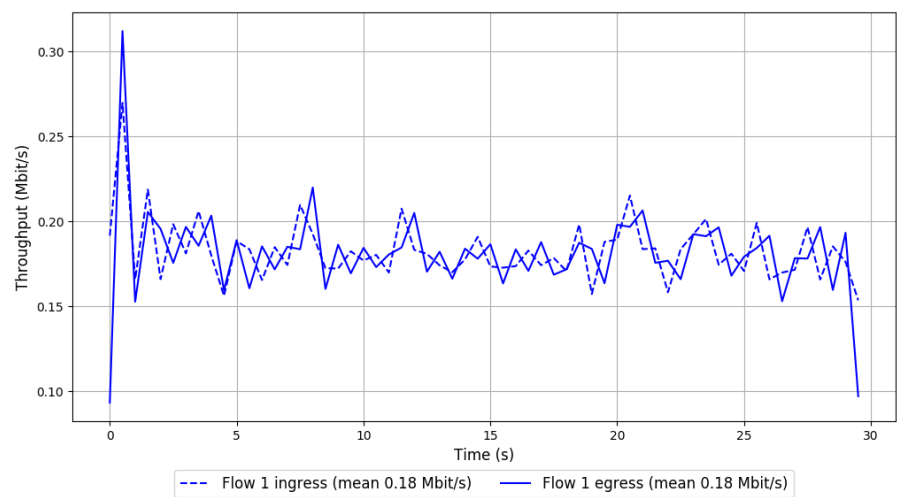
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 164.442 ms

Loss rate: 1.03%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-10-11 05:58:53

End at: 2017-10-11 05:59:23

Below is generated by plot.py at 2017-10-11 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.200 ms

Loss rate: 1.03%

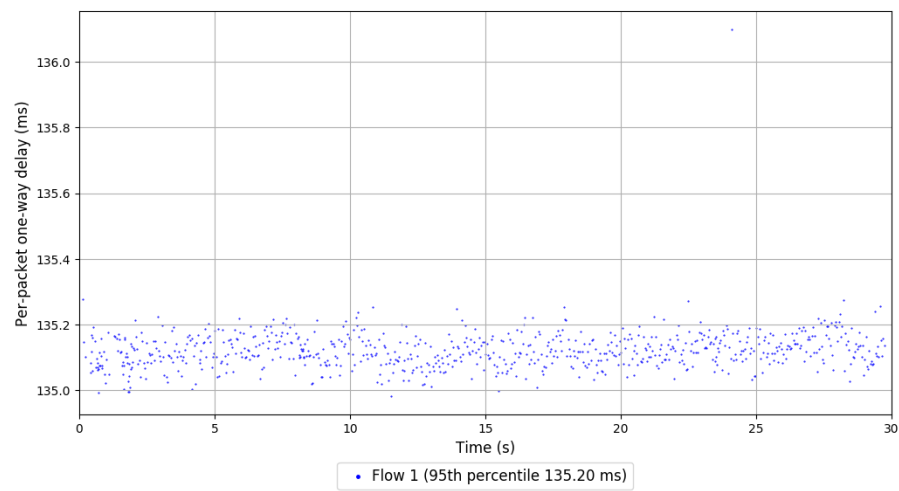
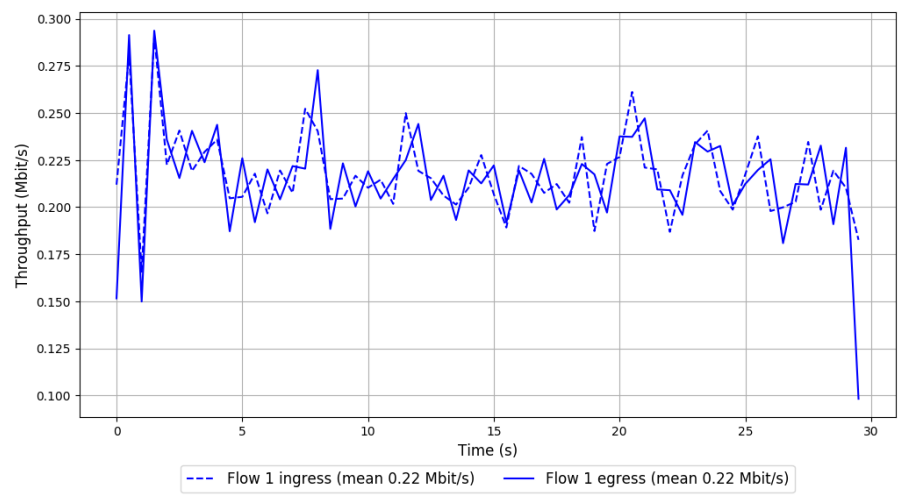
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.200 ms

Loss rate: 1.03%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

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

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

Below is generated by plot.py at 2017-10-11 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

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

Loss rate: 1.02%

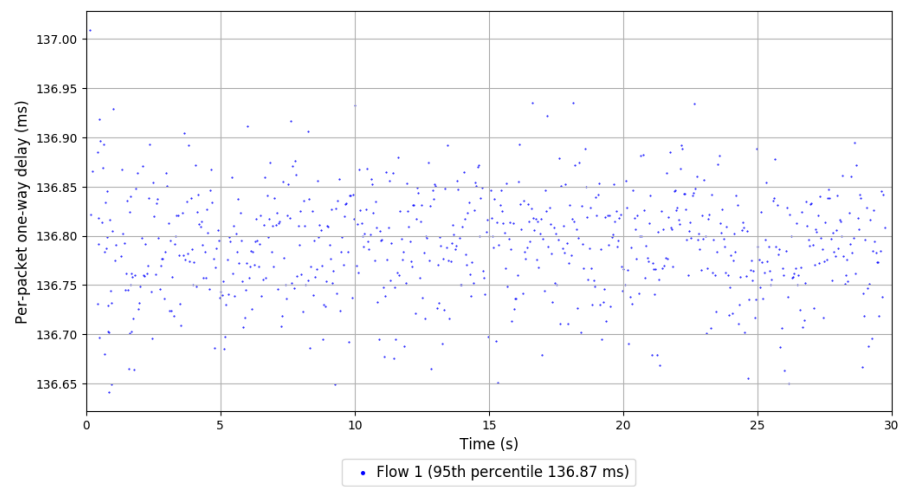
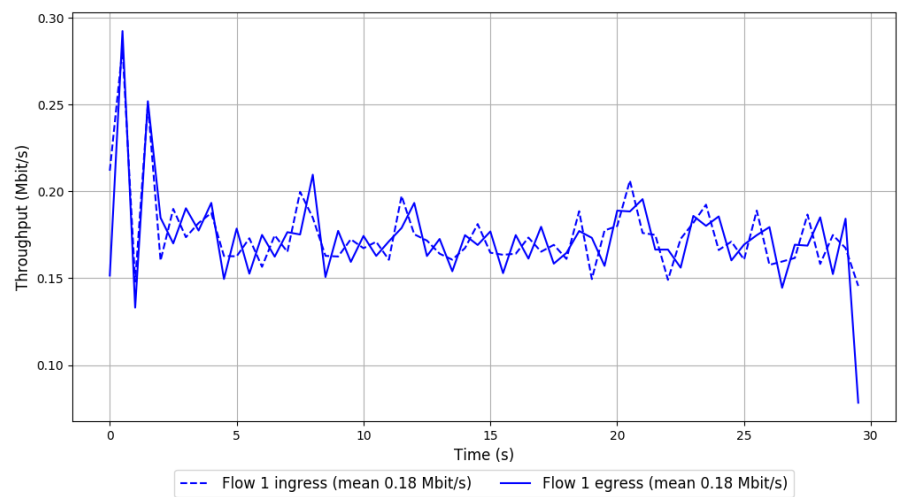
-- Flow 1:

Average throughput: 0.18 Mbit/s

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

Loss rate: 1.02%

Run 10: Report of SCReAM — Data Link

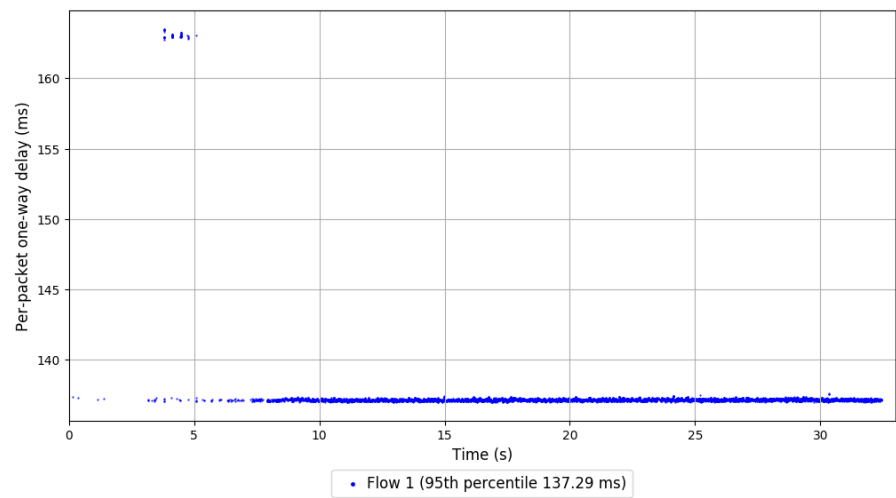
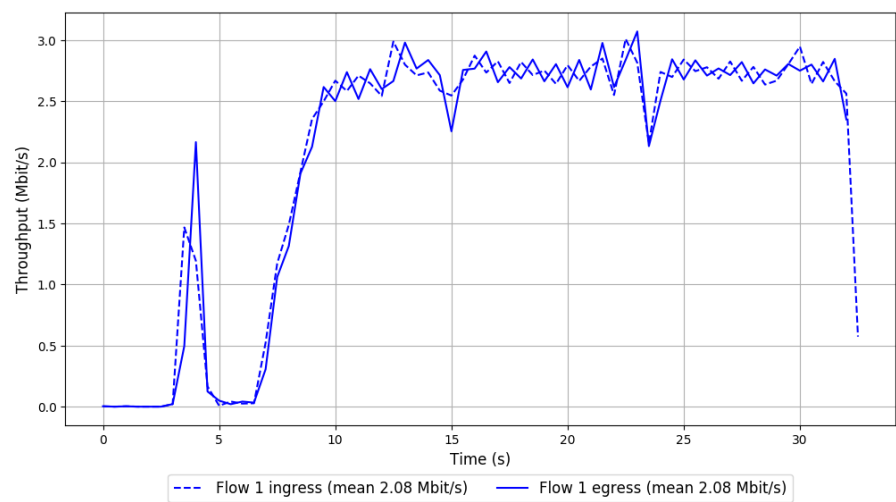


```
Run 1: Statistics of WebRTC media

Start at: 2017-10-11 04:28:25
End at: 2017-10-11 04:28:55

# Below is generated by plot.py at 2017-10-11 08:30:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 137.290 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 137.290 ms
Loss rate: 1.07%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-10-11 04:40:35

End at: 2017-10-11 04:41:05

Below is generated by plot.py at 2017-10-11 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 162.547 ms

Loss rate: 1.09%

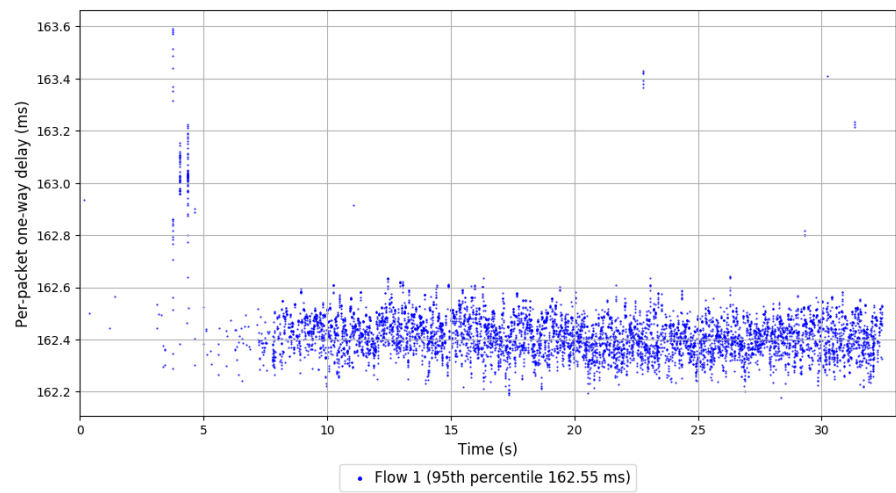
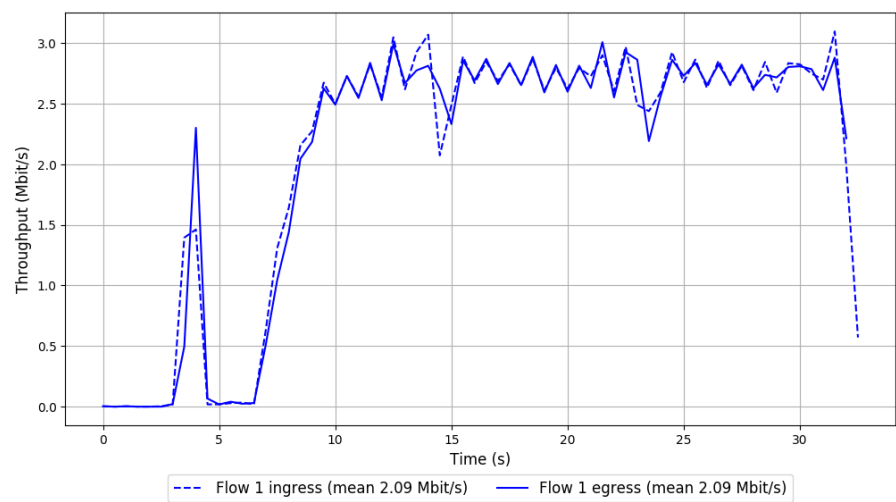
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 162.547 ms

Loss rate: 1.09%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-10-11 04:52:53

End at: 2017-10-11 04:53:23

Below is generated by plot.py at 2017-10-11 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 163.295 ms

Loss rate: 1.08%

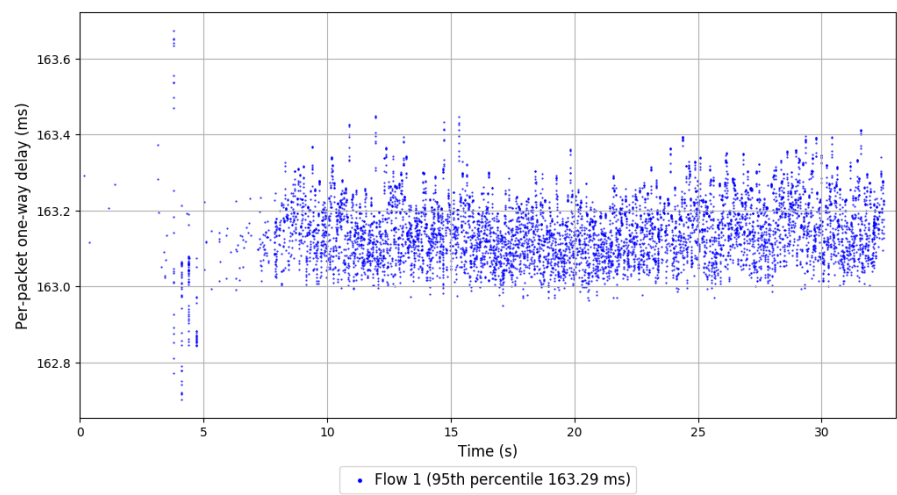
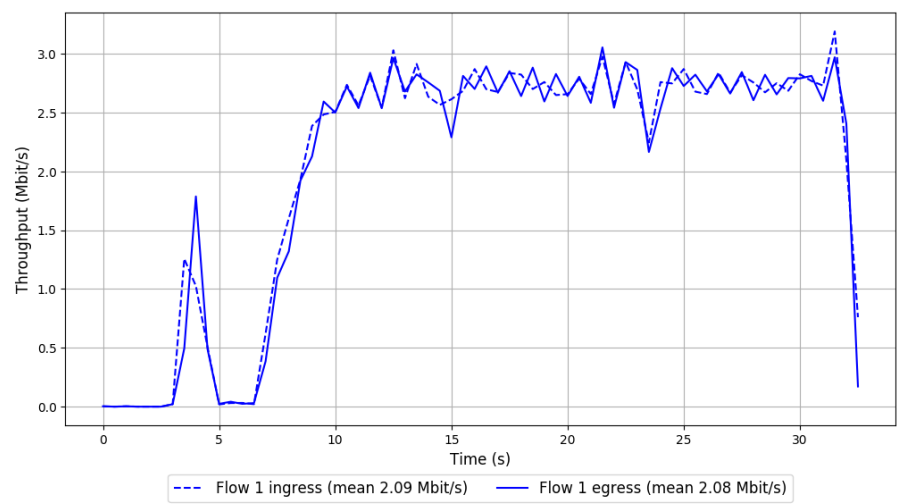
-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 163.295 ms

Loss rate: 1.08%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-10-11 05:04:25

End at: 2017-10-11 05:04:55

Below is generated by plot.py at 2017-10-11 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 163.938 ms

Loss rate: 0.99%

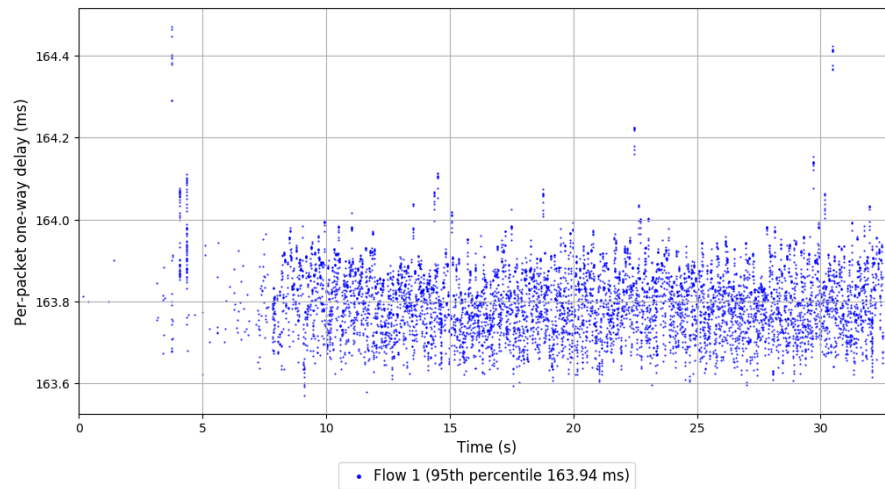
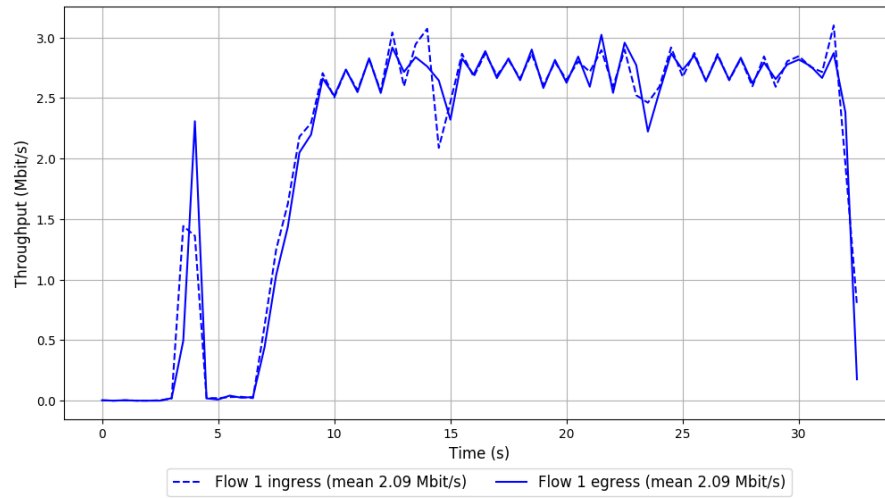
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 163.938 ms

Loss rate: 0.99%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-10-11 05:15:51

End at: 2017-10-11 05:16:21

Below is generated by plot.py at 2017-10-11 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 162.966 ms

Loss rate: 1.10%

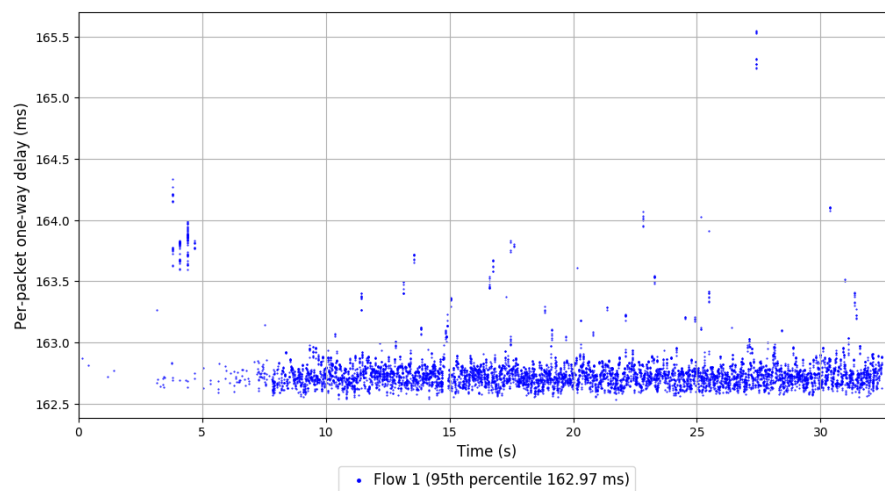
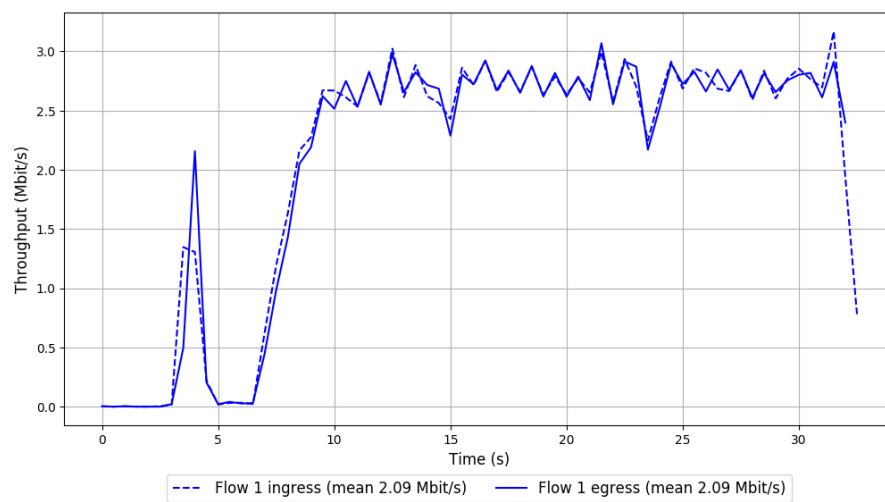
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 162.966 ms

Loss rate: 1.10%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-10-11 05:27:51

End at: 2017-10-11 05:28:21

Below is generated by plot.py at 2017-10-11 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 162.910 ms

Loss rate: 1.11%

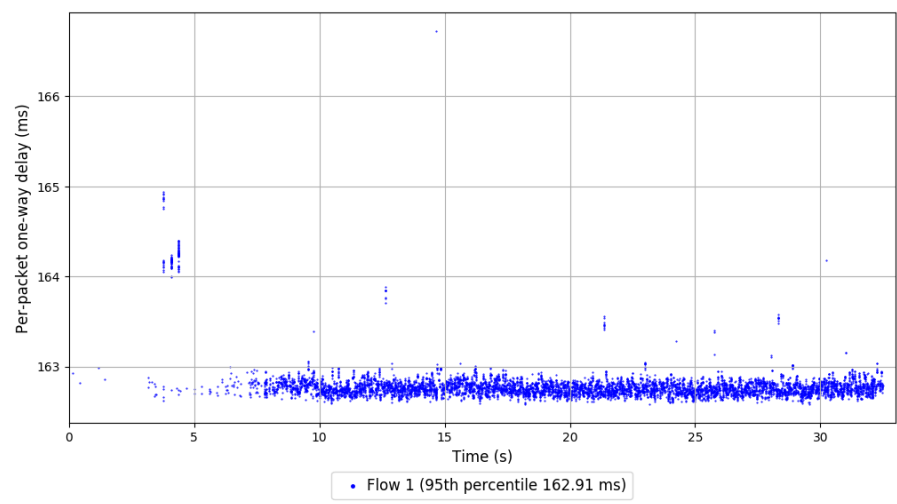
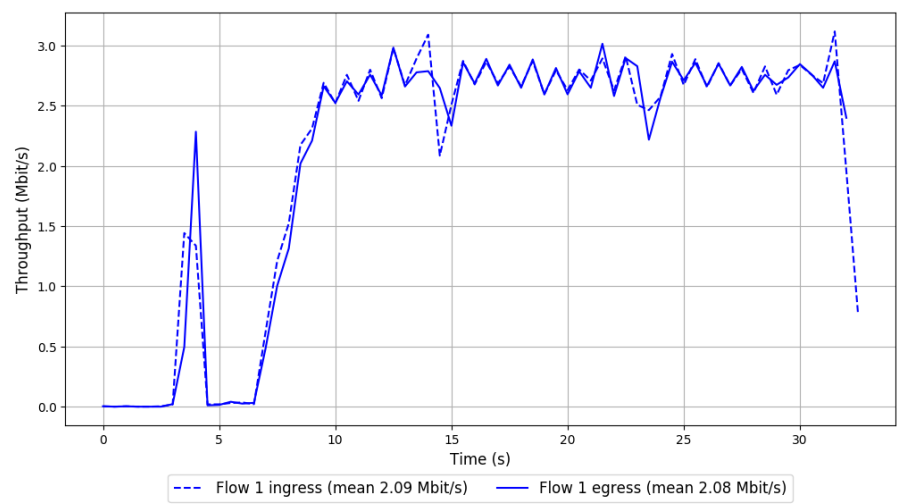
-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 162.910 ms

Loss rate: 1.11%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-10-11 05:38:59

End at: 2017-10-11 05:39:30

Below is generated by plot.py at 2017-10-11 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 135.339 ms

Loss rate: 1.02%

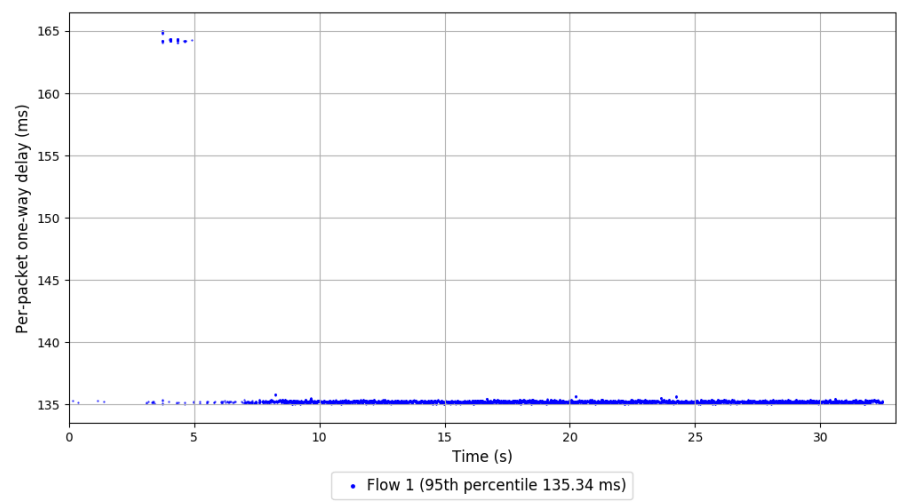
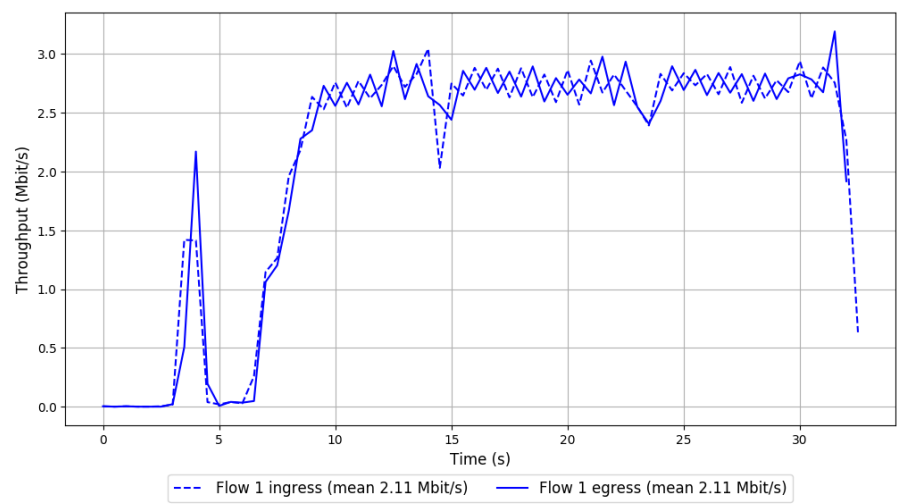
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 135.339 ms

Loss rate: 1.02%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-10-11 05:50:41

End at: 2017-10-11 05:51:12

Below is generated by plot.py at 2017-10-11 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 135.287 ms

Loss rate: 1.16%

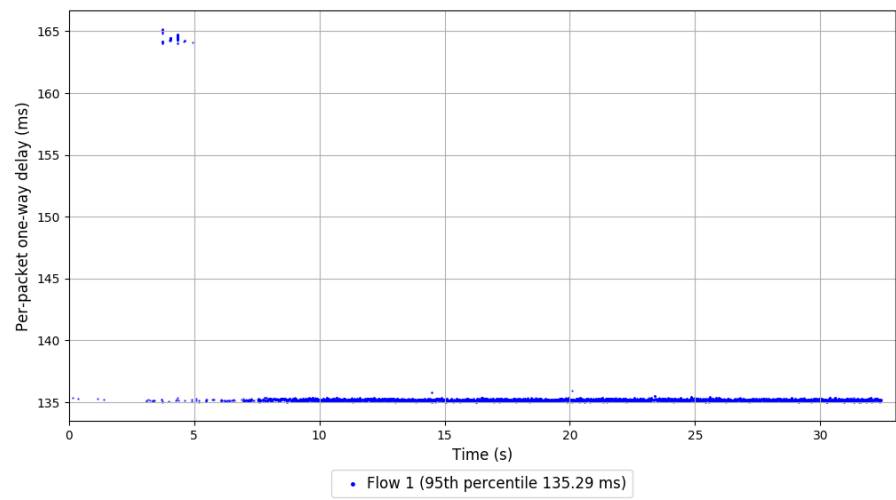
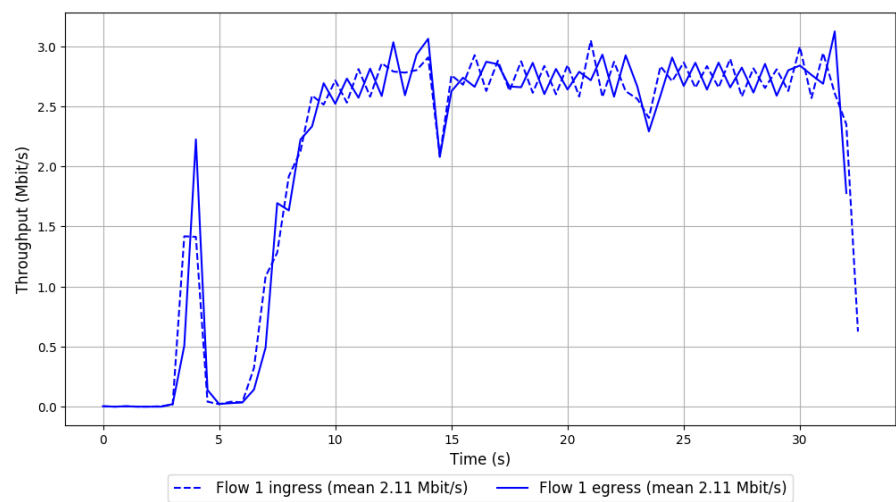
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 135.287 ms

Loss rate: 1.16%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-10-11 06:02:24

End at: 2017-10-11 06:02:54

Below is generated by plot.py at 2017-10-11 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 135.264 ms

Loss rate: 1.22%

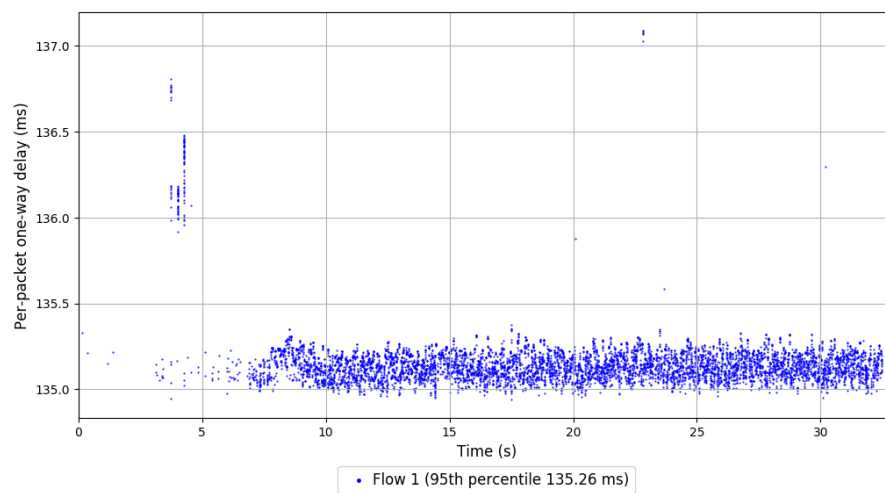
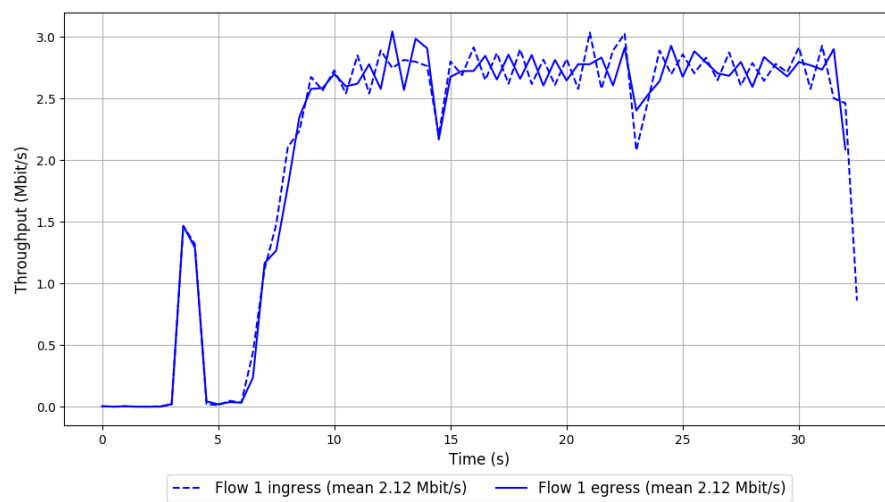
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 135.264 ms

Loss rate: 1.22%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-10-11 06:14:28

End at: 2017-10-11 06:14:58

Below is generated by plot.py at 2017-10-11 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 162.861 ms

Loss rate: 1.15%

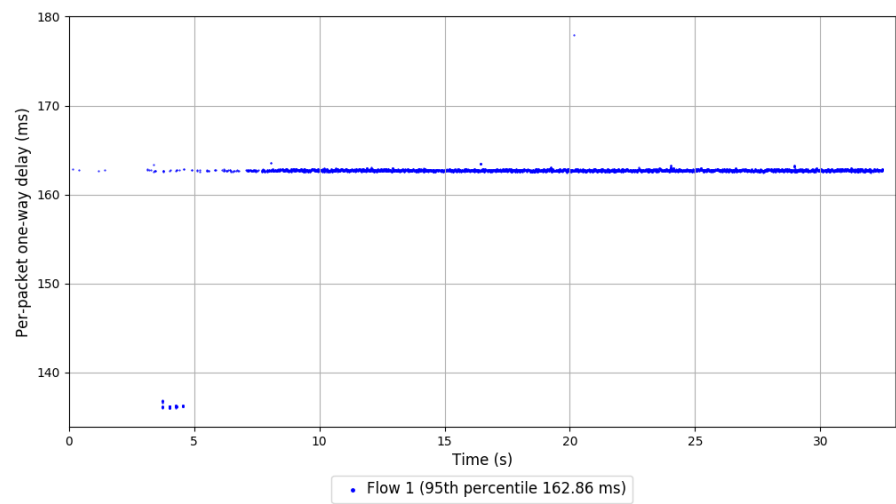
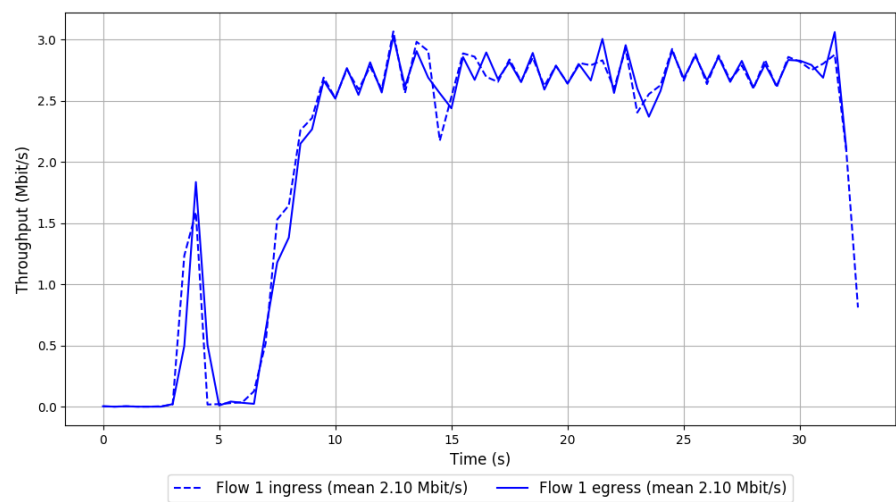
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 162.861 ms

Loss rate: 1.15%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-10-11 04:19:26

End at: 2017-10-11 04:19:56

Below is generated by plot.py at 2017-10-11 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.34 Mbit/s

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

Loss rate: 1.04%

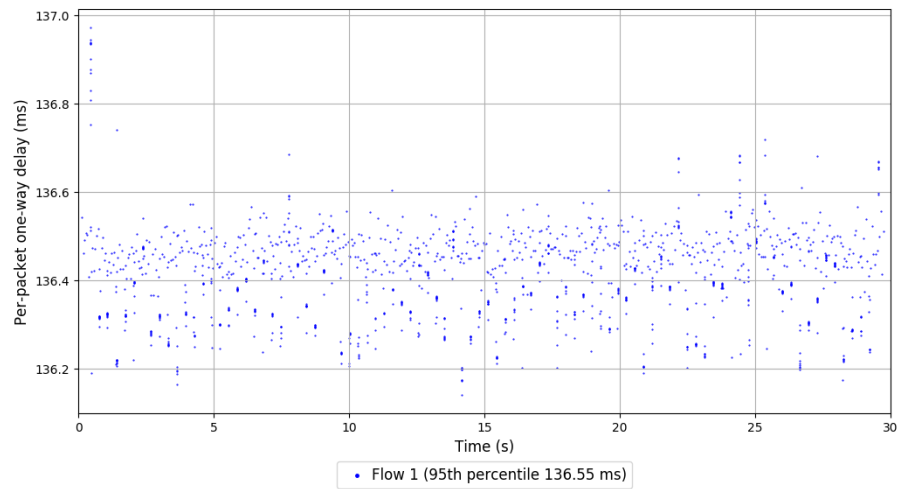
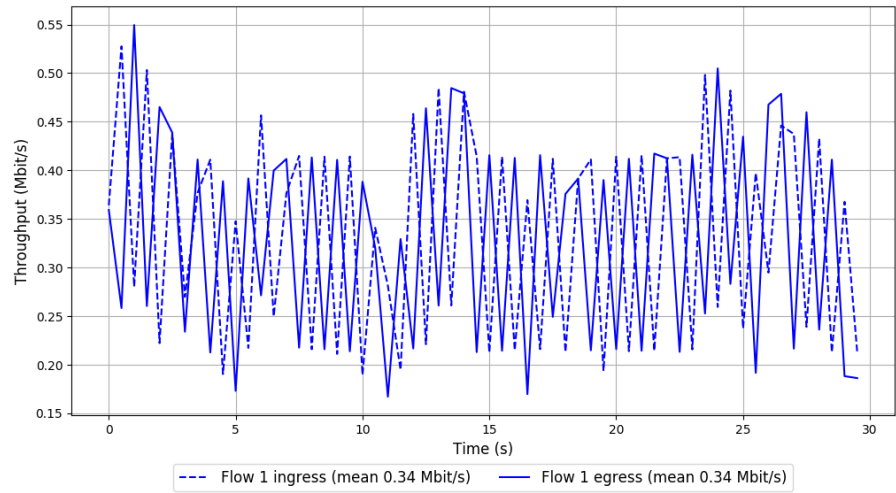
-- Flow 1:

Average throughput: 0.34 Mbit/s

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

Loss rate: 1.04%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-10-11 04:31:48

End at: 2017-10-11 04:32:18

Below is generated by plot.py at 2017-10-11 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 163.289 ms

Loss rate: 1.27%

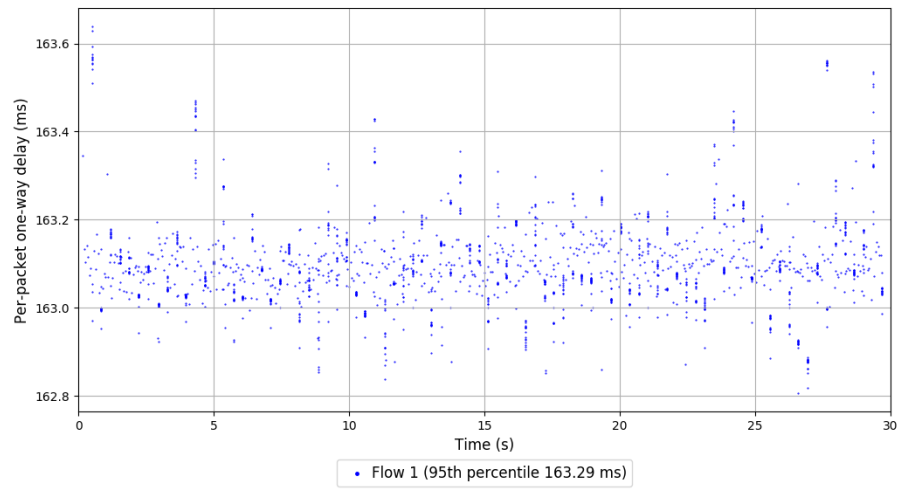
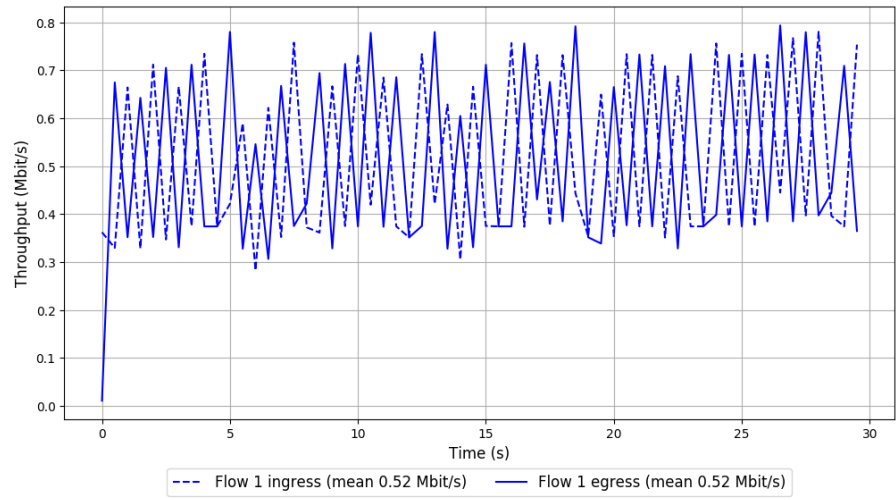
-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 163.289 ms

Loss rate: 1.27%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-10-11 04:44:06

End at: 2017-10-11 04:44:36

Below is generated by plot.py at 2017-10-11 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 163.353 ms

Loss rate: 1.43%

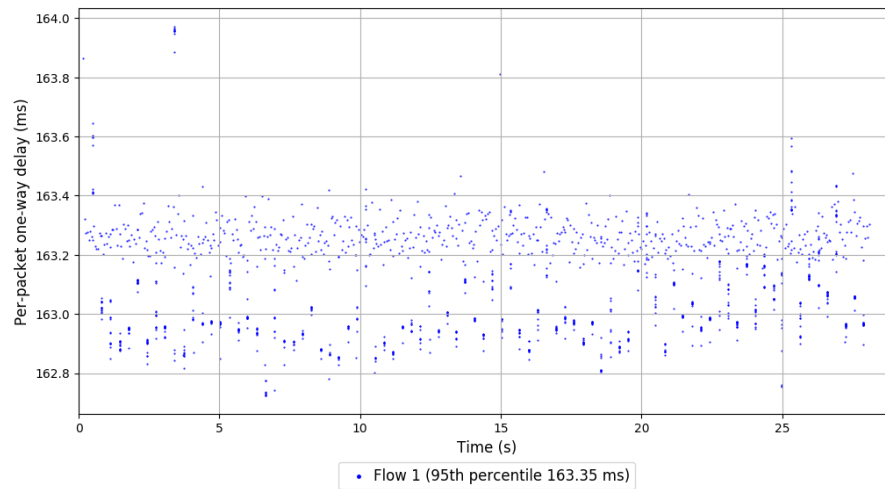
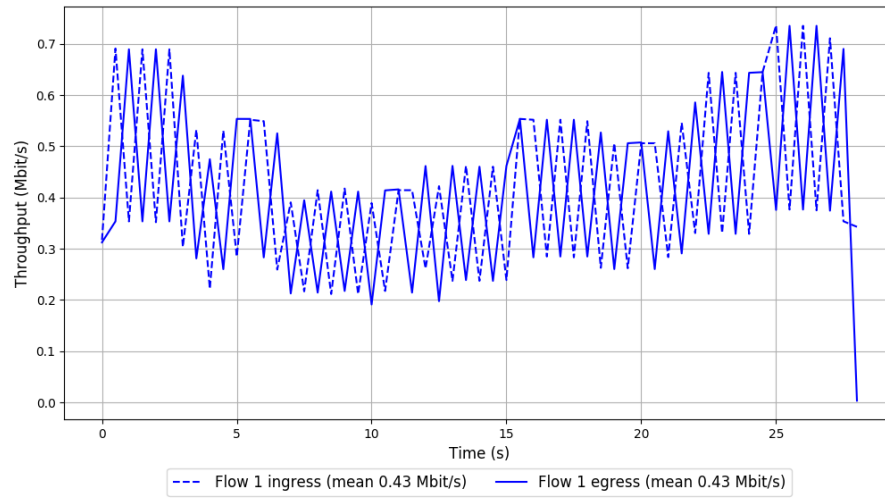
-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 163.353 ms

Loss rate: 1.43%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-10-11 04:56:12

End at: 2017-10-11 04:56:42

Below is generated by plot.py at 2017-10-11 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 163.310 ms

Loss rate: 1.20%

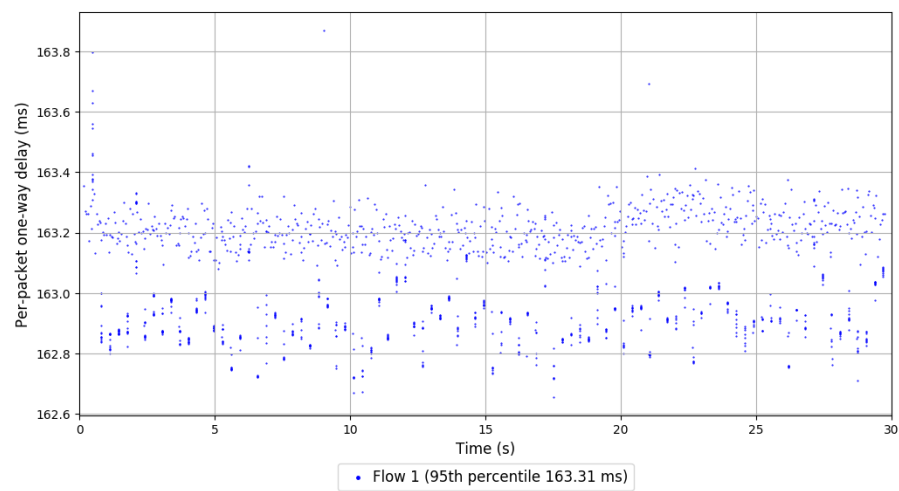
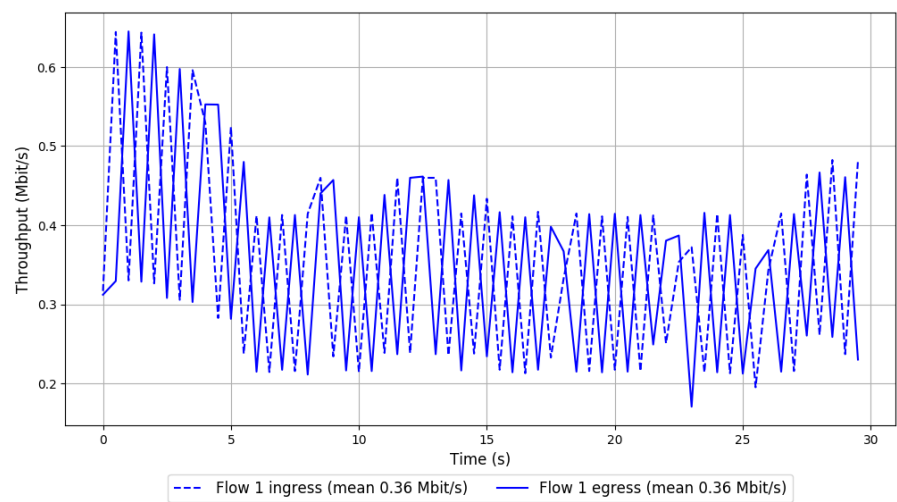
-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 163.310 ms

Loss rate: 1.20%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-10-11 05:07:37

End at: 2017-10-11 05:08:07

Below is generated by plot.py at 2017-10-11 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 164.049 ms

Loss rate: 1.03%

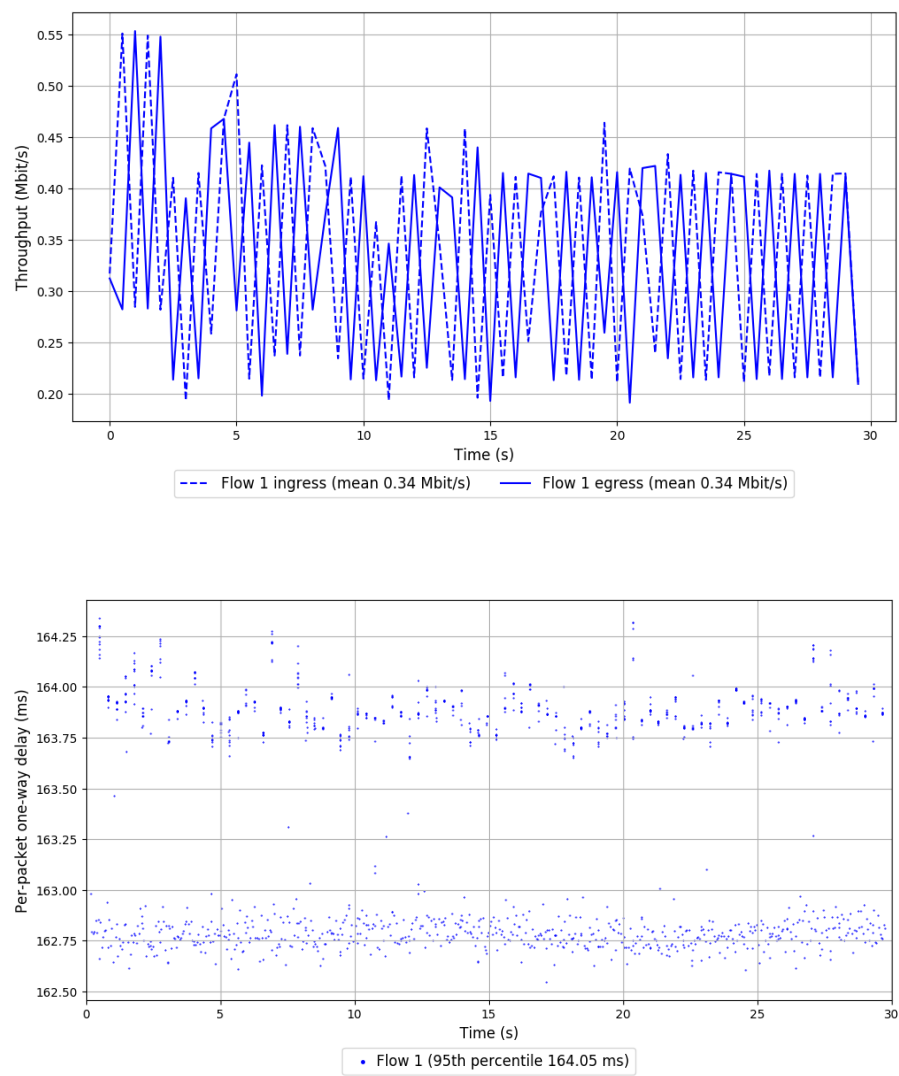
-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 164.049 ms

Loss rate: 1.03%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-10-11 05:19:08

End at: 2017-10-11 05:19:38

Below is generated by plot.py at 2017-10-11 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 164.025 ms

Loss rate: 0.04%

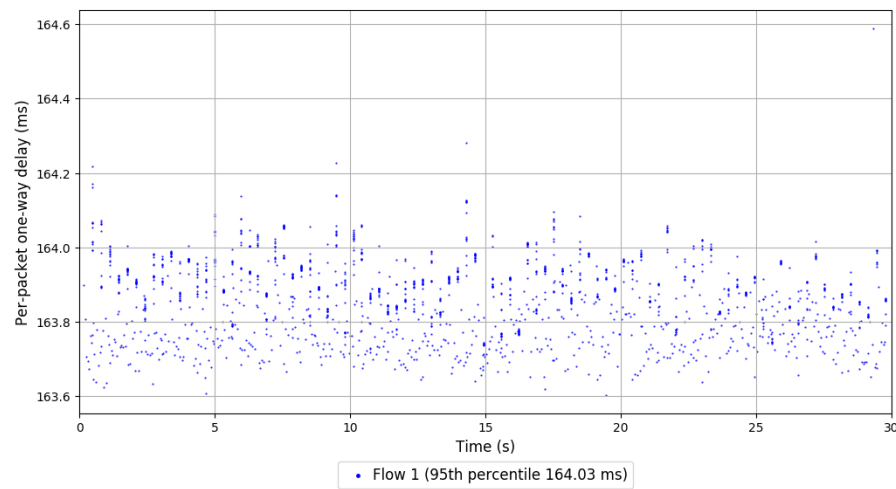
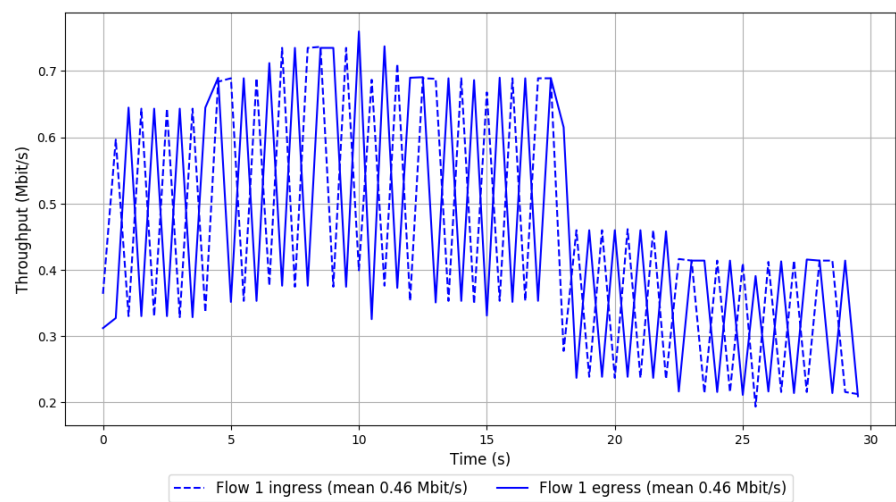
-- Flow 1:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 164.025 ms

Loss rate: 0.04%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-10-11 05:31:09

End at: 2017-10-11 05:31:39

Below is generated by plot.py at 2017-10-11 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 164.419 ms

Loss rate: 1.08%

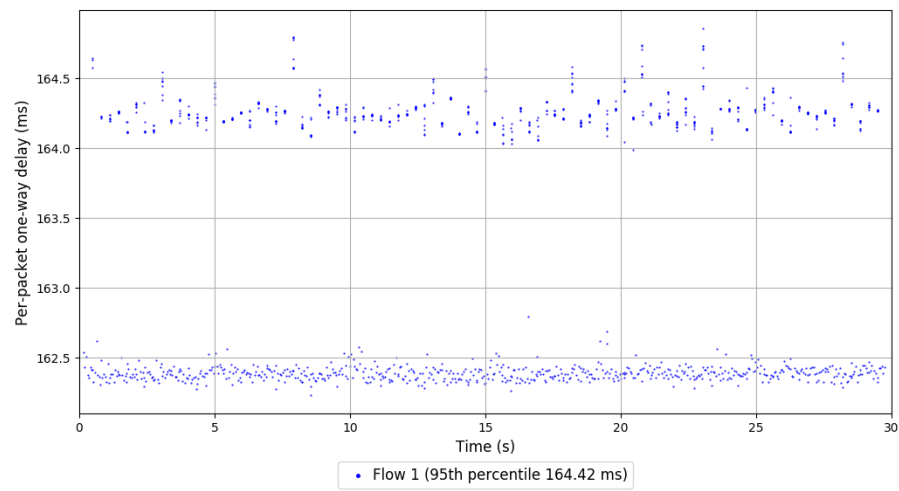
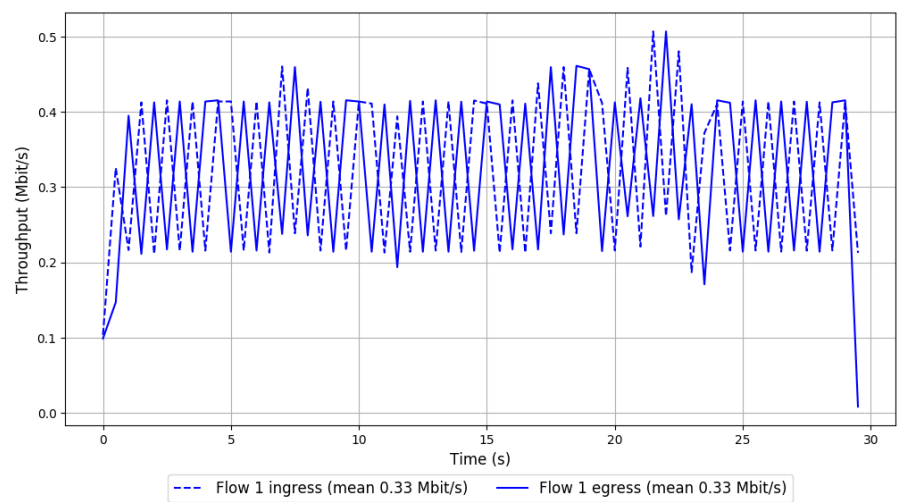
-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 164.419 ms

Loss rate: 1.08%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-10-11 05:42:13

End at: 2017-10-11 05:42:43

Below is generated by plot.py at 2017-10-11 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 164.413 ms

Loss rate: 0.17%

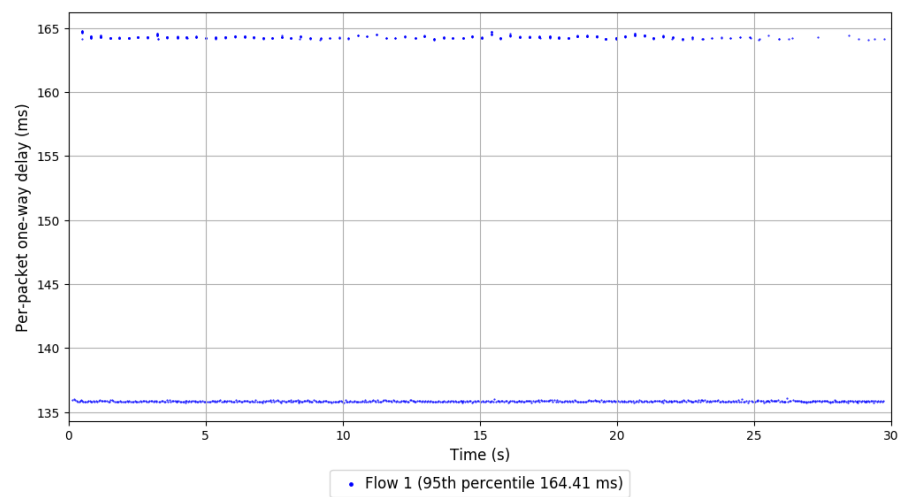
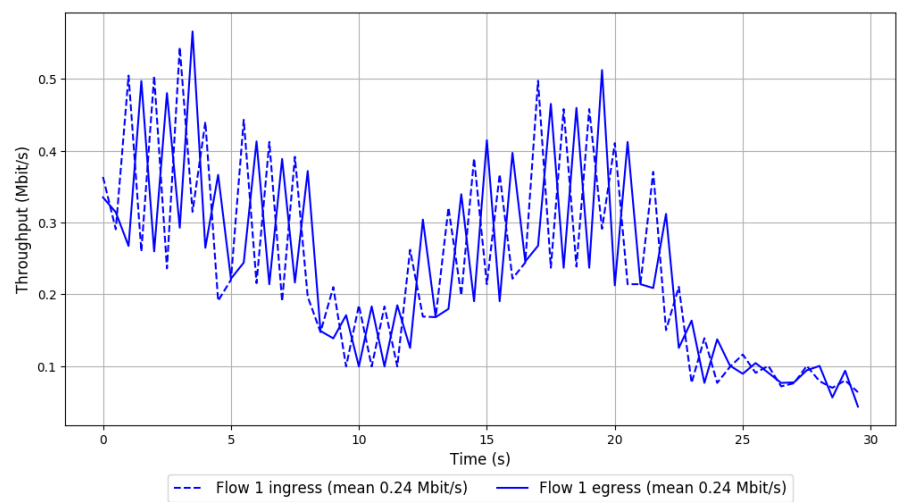
-- Flow 1:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 164.413 ms

Loss rate: 0.17%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-10-11 05:53:56

End at: 2017-10-11 05:54:26

Below is generated by plot.py at 2017-10-11 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 164.397 ms

Loss rate: 0.98%

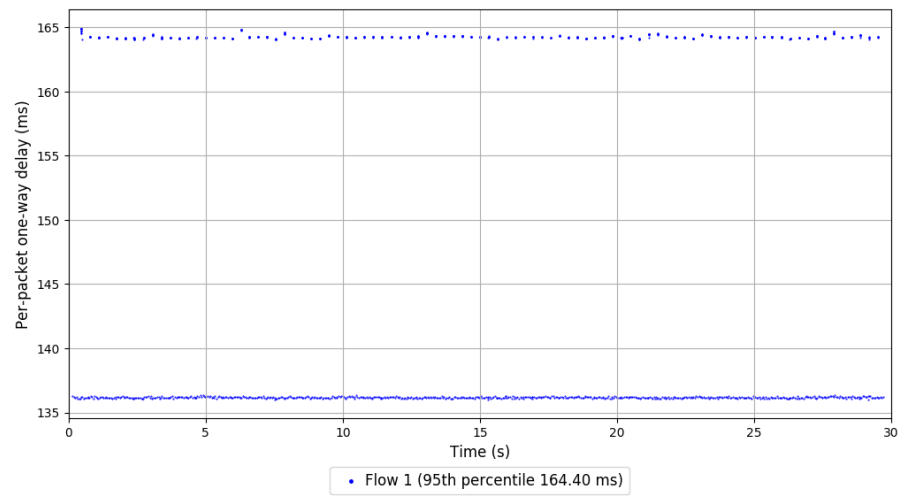
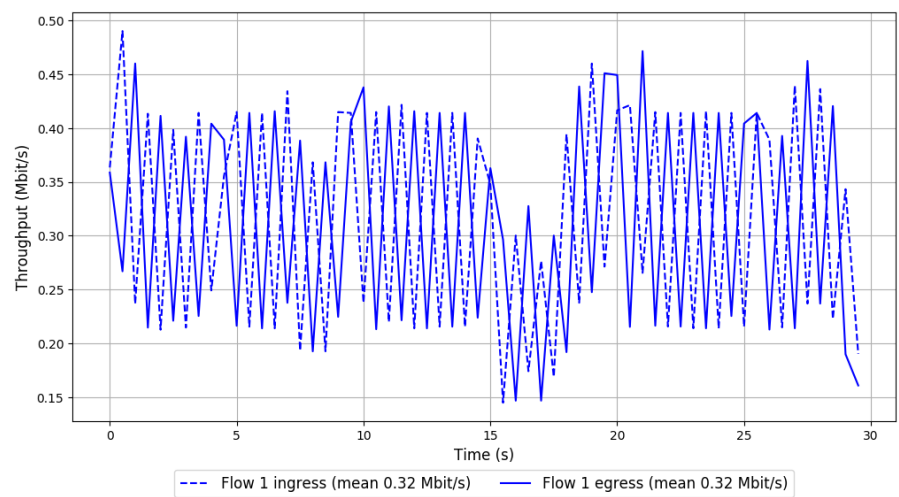
-- Flow 1:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 164.397 ms

Loss rate: 0.98%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-10-11 06:05:38

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

Below is generated by plot.py at 2017-10-11 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 164.186 ms

Loss rate: 0.62%

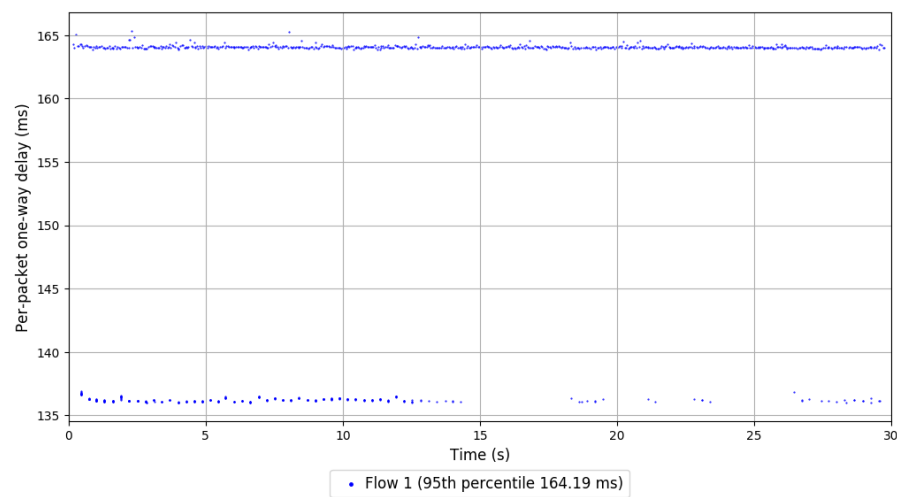
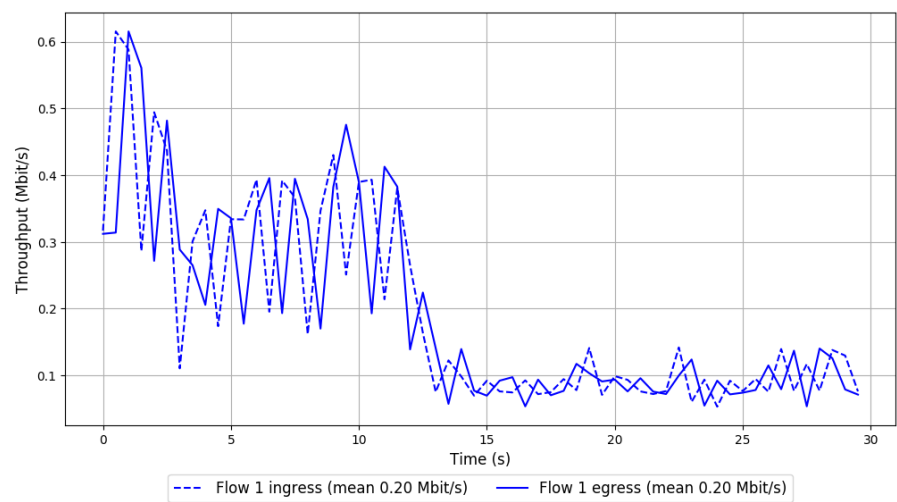
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 164.186 ms

Loss rate: 0.62%

Run 10: Report of Sprout — Data Link

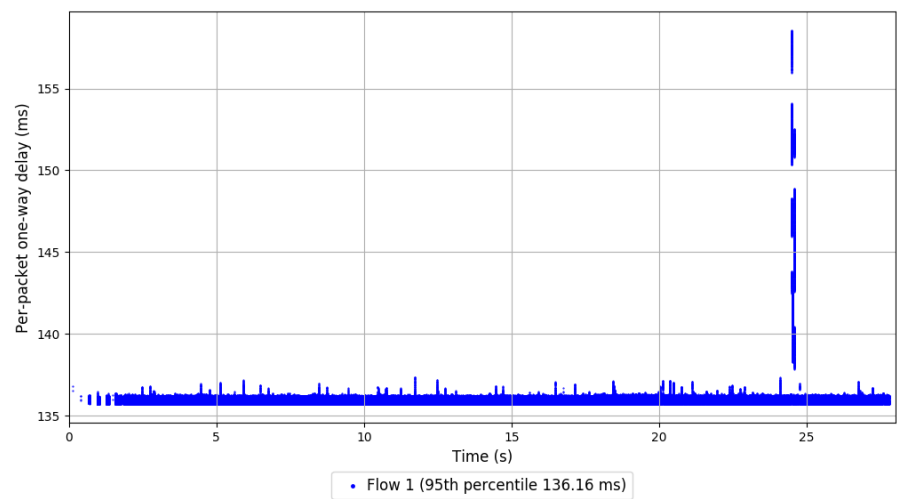
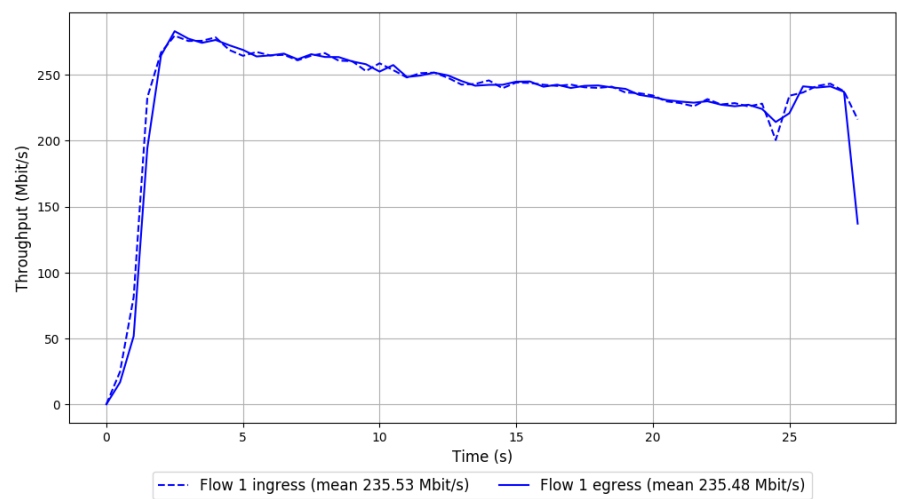


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-10-11 04:23:47
End at: 2017-10-11 04:24:17

# Below is generated by plot.py at 2017-10-11 08:36:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 235.48 Mbit/s
95th percentile per-packet one-way delay: 136.160 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 235.48 Mbit/s
95th percentile per-packet one-way delay: 136.160 ms
Loss rate: 1.10%
```


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

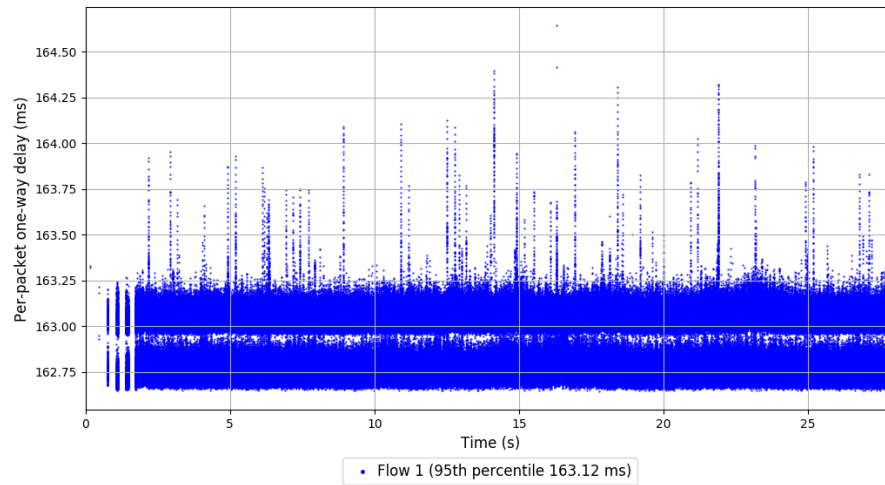
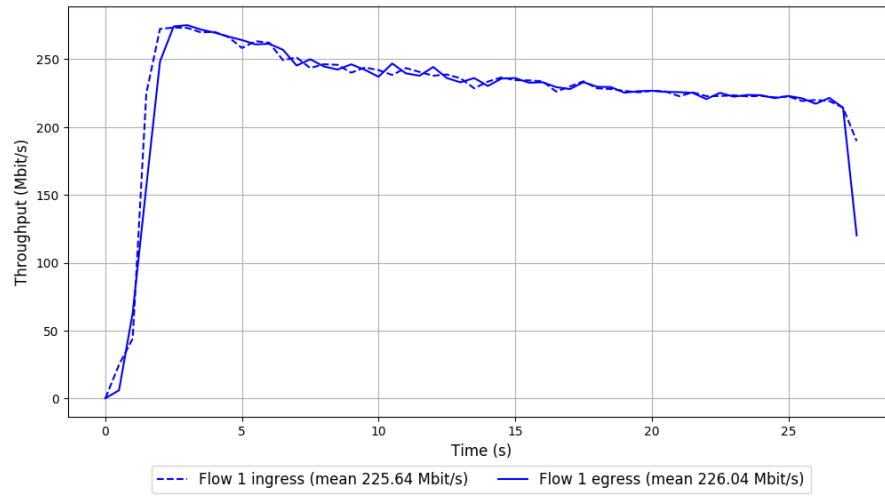


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-10-11 04:36:02
End at: 2017-10-11 04:36:32

# Below is generated by plot.py at 2017-10-11 08:36:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.04 Mbit/s
95th percentile per-packet one-way delay: 163.124 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 226.04 Mbit/s
95th percentile per-packet one-way delay: 163.124 ms
Loss rate: 1.11%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-10-11 04:48:22

End at: 2017-10-11 04:48:52

Below is generated by plot.py at 2017-10-11 08:36:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.10 Mbit/s

95th percentile per-packet one-way delay: 163.101 ms

Loss rate: 1.08%

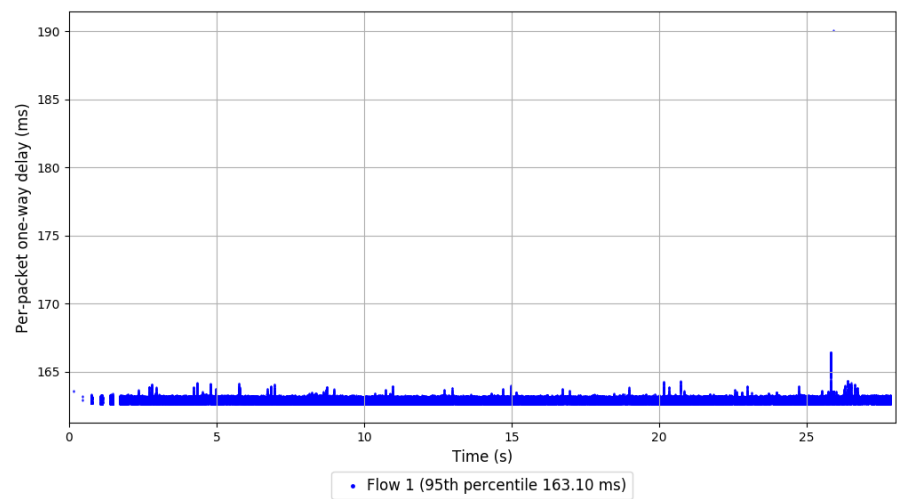
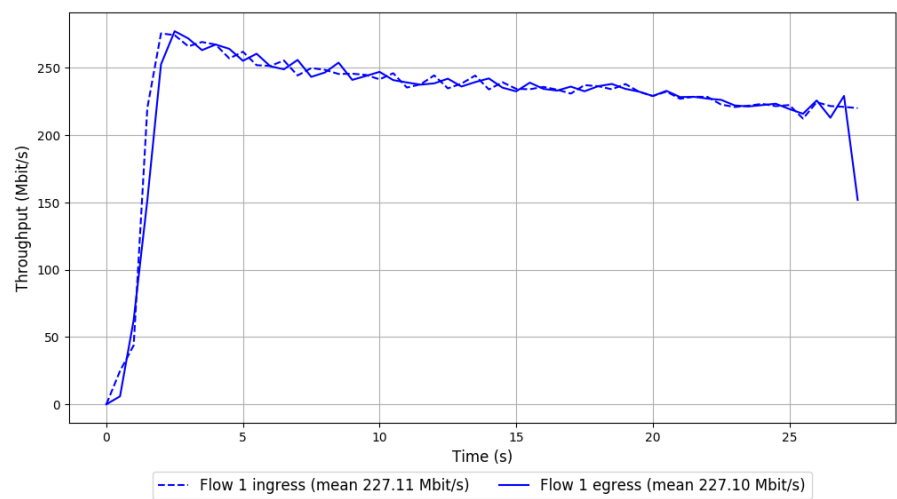
-- Flow 1:

Average throughput: 227.10 Mbit/s

95th percentile per-packet one-way delay: 163.101 ms

Loss rate: 1.08%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-10-11 05:00:26

End at: 2017-10-11 05:00:56

Below is generated by plot.py at 2017-10-11 08:36:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.78 Mbit/s

95th percentile per-packet one-way delay: 163.809 ms

Loss rate: 1.33%

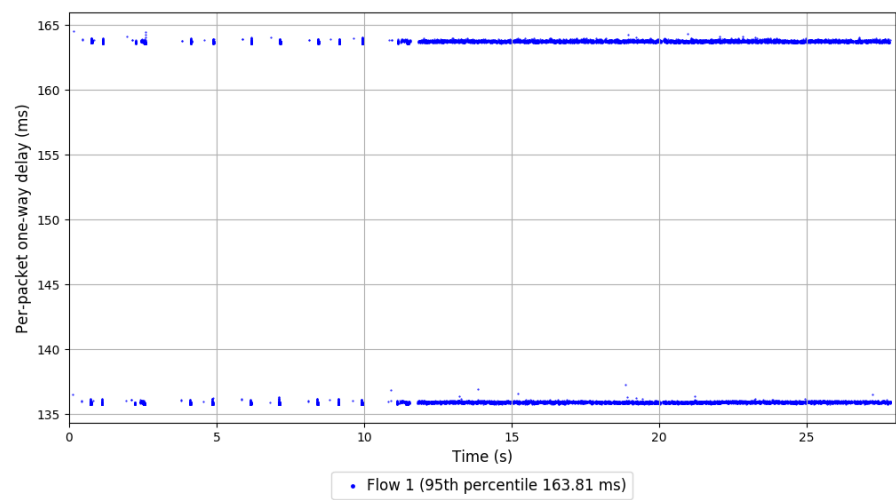
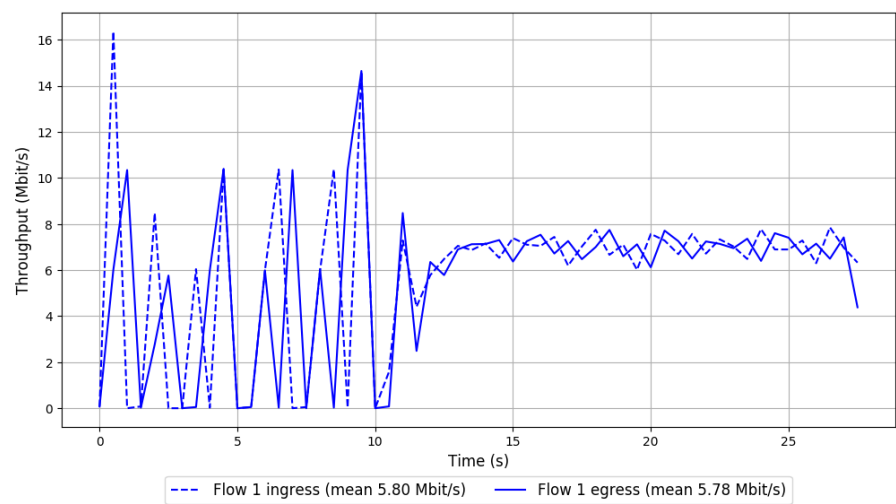
-- Flow 1:

Average throughput: 5.78 Mbit/s

95th percentile per-packet one-way delay: 163.809 ms

Loss rate: 1.33%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-10-11 05:11:21

End at: 2017-10-11 05:11:51

Below is generated by plot.py at 2017-10-11 08:36:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.47 Mbit/s

95th percentile per-packet one-way delay: 164.056 ms

Loss rate: 1.12%

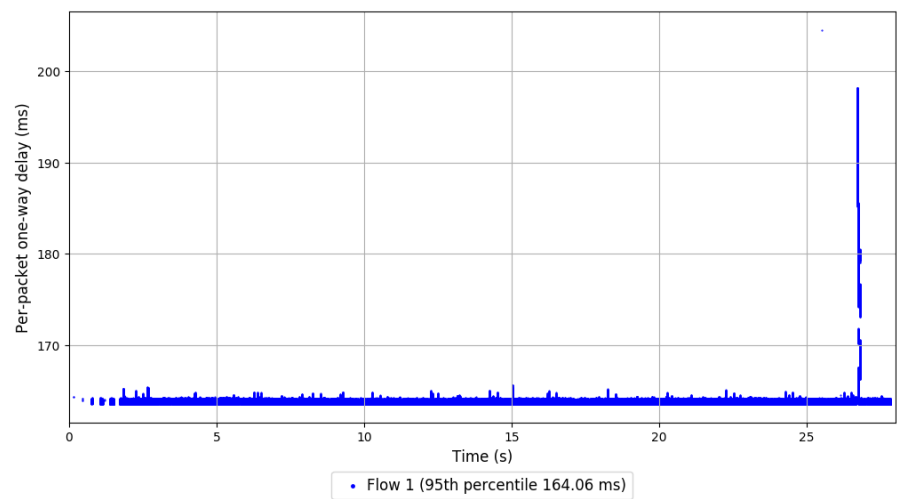
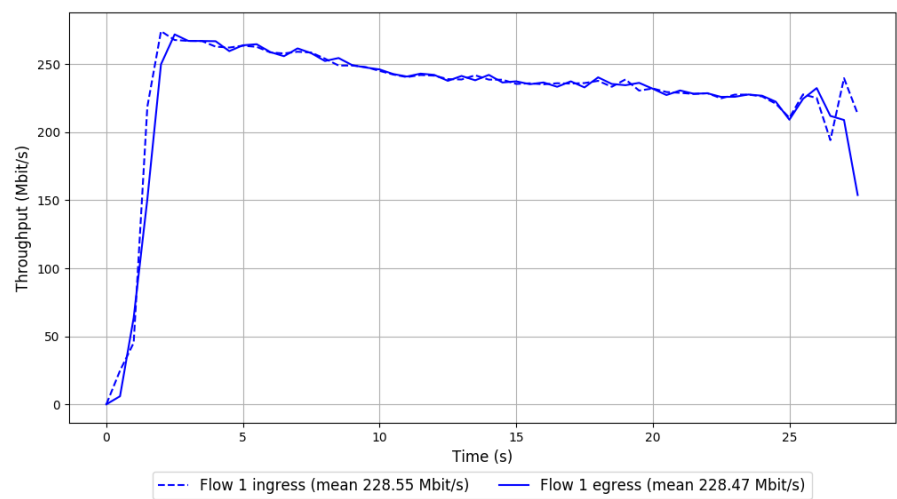
-- Flow 1:

Average throughput: 228.47 Mbit/s

95th percentile per-packet one-way delay: 164.056 ms

Loss rate: 1.12%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-10-11 05:23:23

End at: 2017-10-11 05:23:53

Below is generated by plot.py at 2017-10-11 08:37:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.94 Mbit/s

95th percentile per-packet one-way delay: 163.748 ms

Loss rate: 1.15%

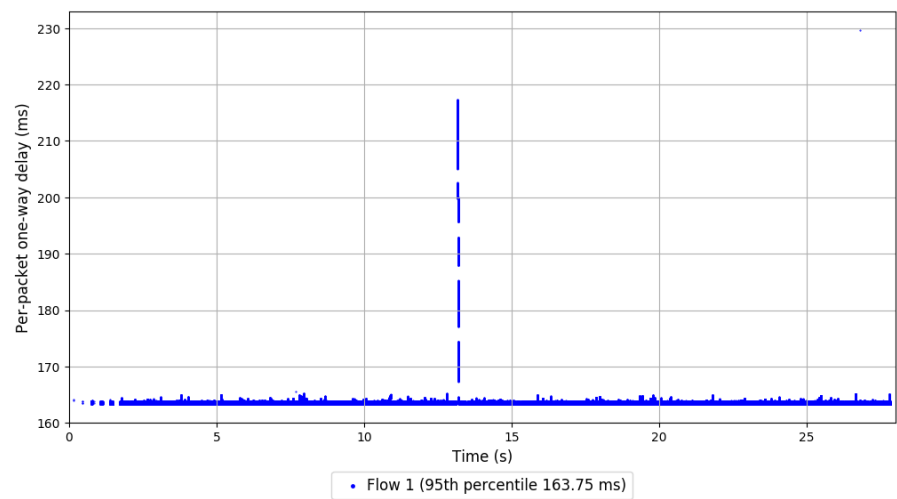
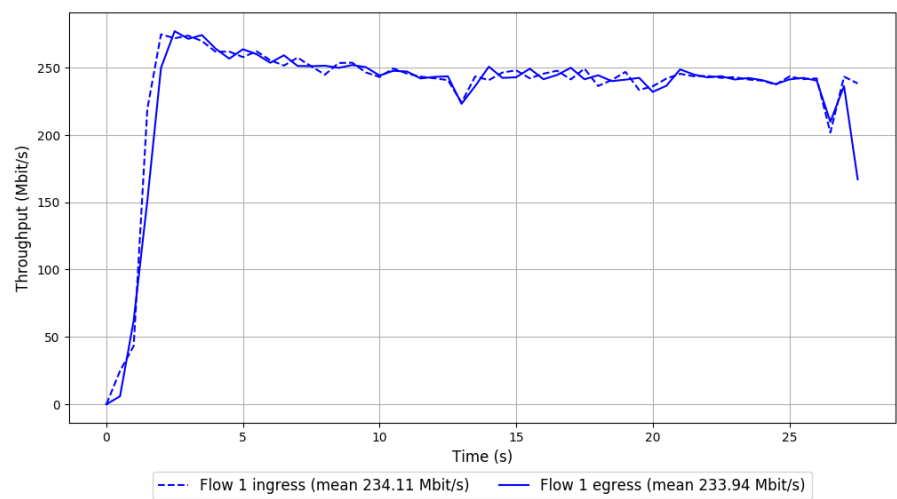
-- Flow 1:

Average throughput: 233.94 Mbit/s

95th percentile per-packet one-way delay: 163.748 ms

Loss rate: 1.15%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-10-11 05:34:49

End at: 2017-10-11 05:35:19

Below is generated by plot.py at 2017-10-11 08:37:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.98 Mbit/s

95th percentile per-packet one-way delay: 164.091 ms

Loss rate: 1.05%

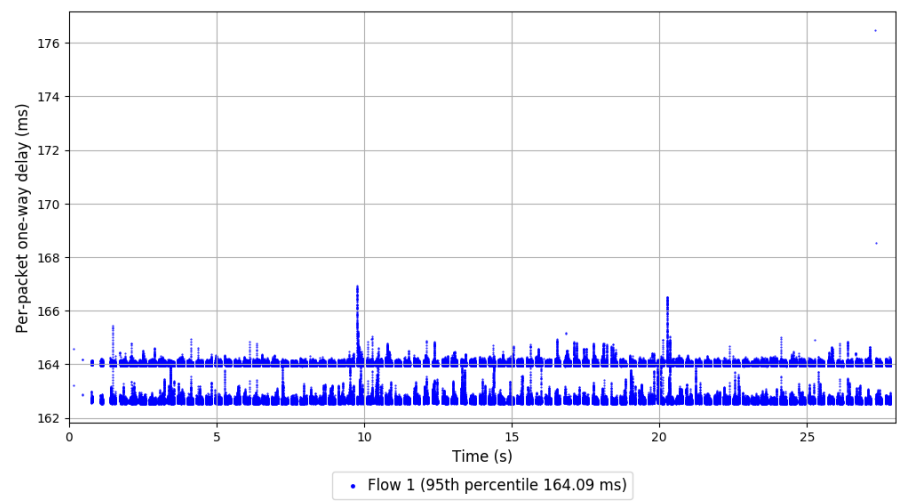
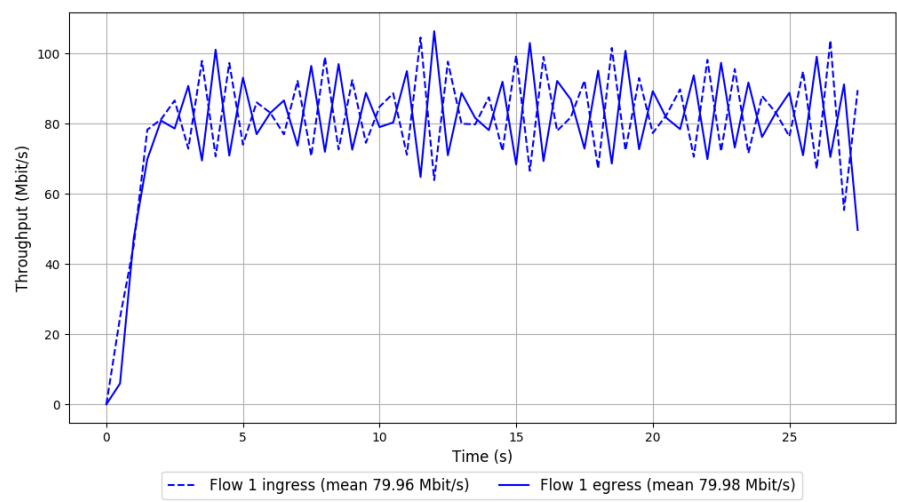
-- Flow 1:

Average throughput: 79.98 Mbit/s

95th percentile per-packet one-way delay: 164.091 ms

Loss rate: 1.05%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-10-11 05:46:08

End at: 2017-10-11 05:46:38

Below is generated by plot.py at 2017-10-11 08:37:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 231.53 Mbit/s

95th percentile per-packet one-way delay: 164.145 ms

Loss rate: 1.17%

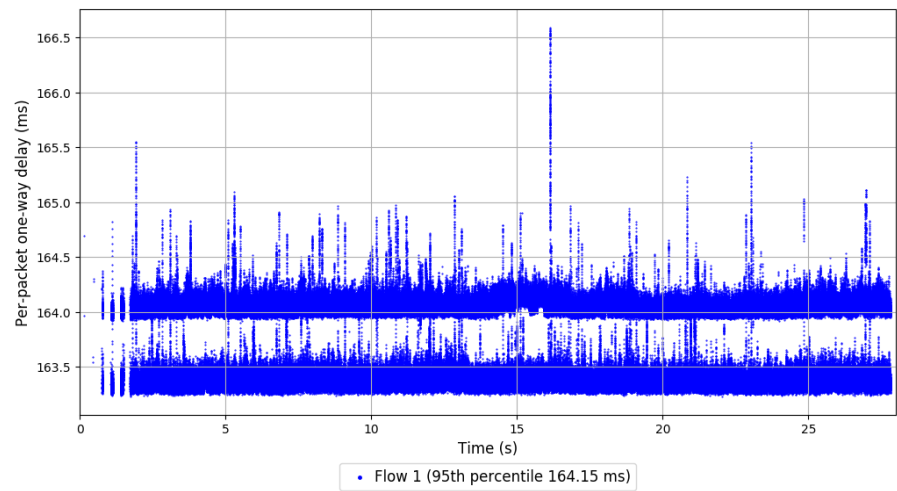
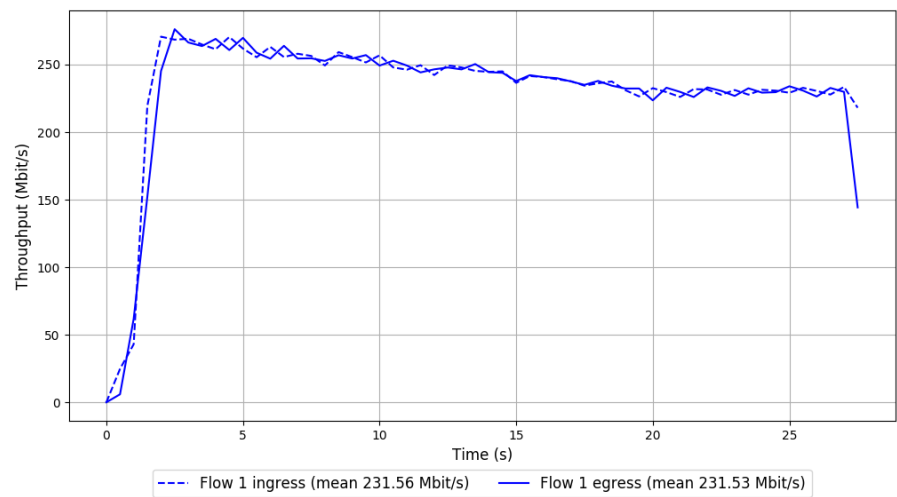
-- Flow 1:

Average throughput: 231.53 Mbit/s

95th percentile per-packet one-way delay: 164.145 ms

Loss rate: 1.17%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-10-11 05:58:08

End at: 2017-10-11 05:58:38

Below is generated by plot.py at 2017-10-11 08:37:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.19 Mbit/s

95th percentile per-packet one-way delay: 164.436 ms

Loss rate: 0.01%

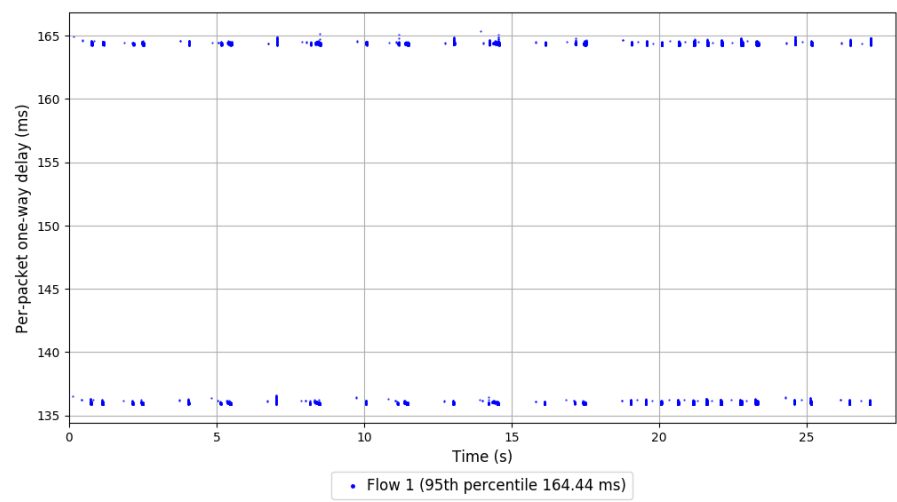
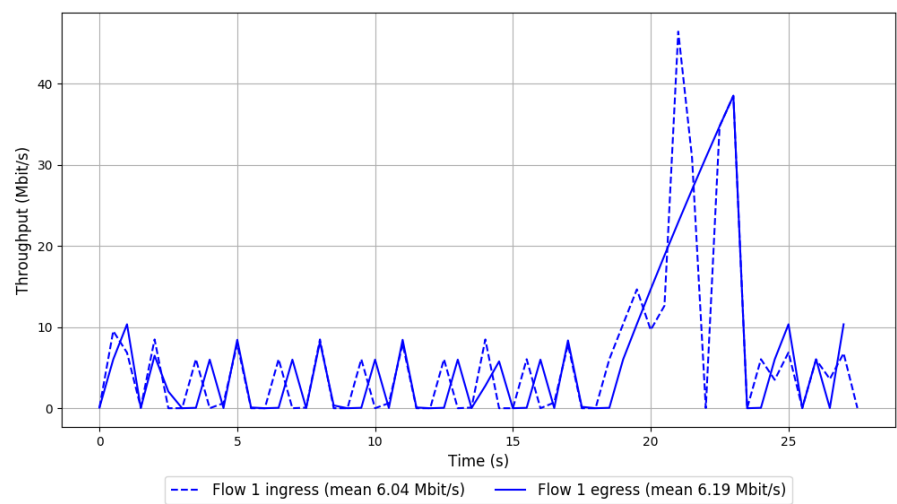
-- Flow 1:

Average throughput: 6.19 Mbit/s

95th percentile per-packet one-way delay: 164.436 ms

Loss rate: 0.01%

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

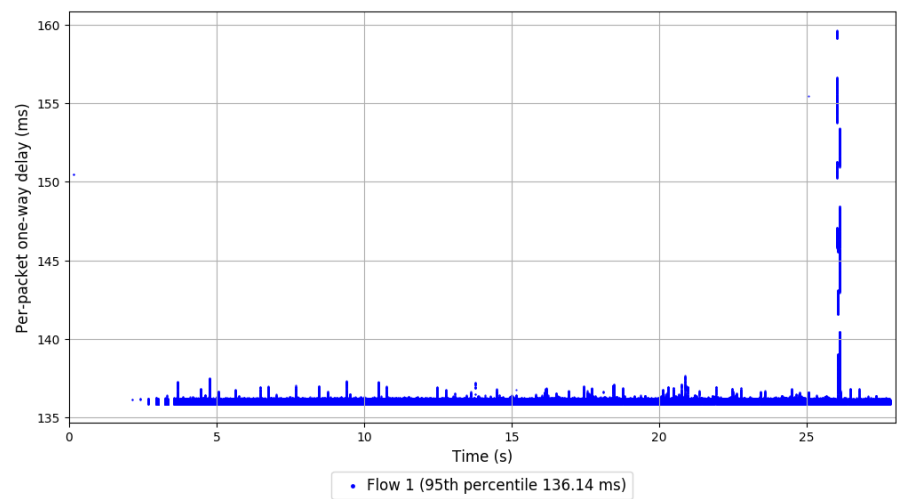
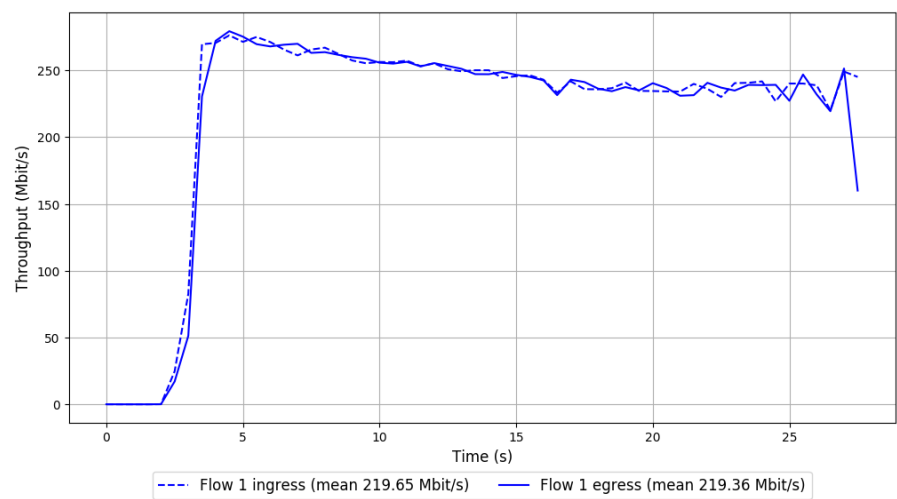


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-10-11 06:09:55
End at: 2017-10-11 06:10:25

# Below is generated by plot.py at 2017-10-11 08:37:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.36 Mbit/s
95th percentile per-packet one-way delay: 136.136 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 219.36 Mbit/s
95th percentile per-packet one-way delay: 136.136 ms
Loss rate: 1.24%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-10-11 04:27:36

End at: 2017-10-11 04:28:06

Below is generated by plot.py at 2017-10-11 08:37:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.86 Mbit/s

95th percentile per-packet one-way delay: 169.723 ms

Loss rate: 1.17%

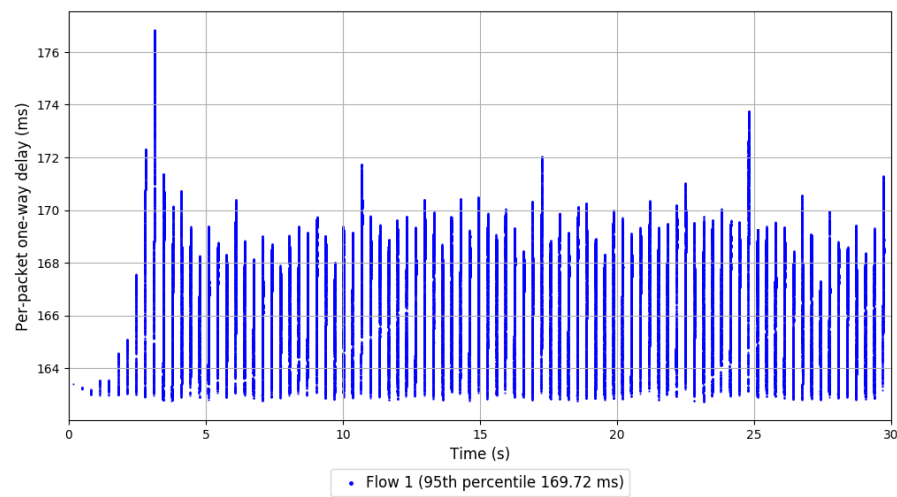
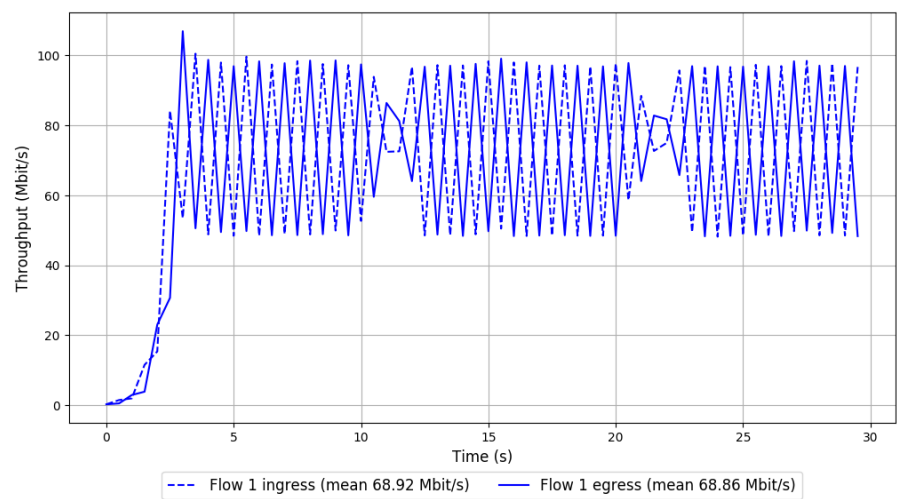
-- Flow 1:

Average throughput: 68.86 Mbit/s

95th percentile per-packet one-way delay: 169.723 ms

Loss rate: 1.17%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-10-11 04:39:51

End at: 2017-10-11 04:40:21

Below is generated by plot.py at 2017-10-11 08:37:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 163.169 ms

Loss rate: 1.01%

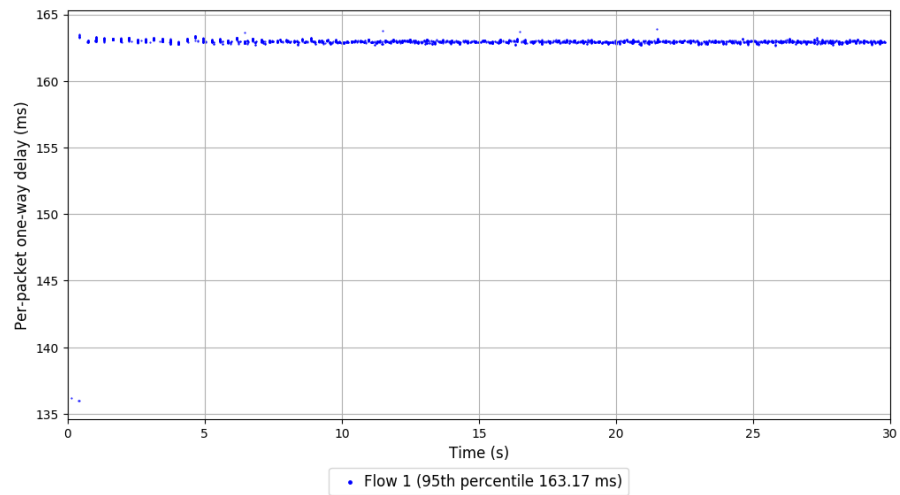
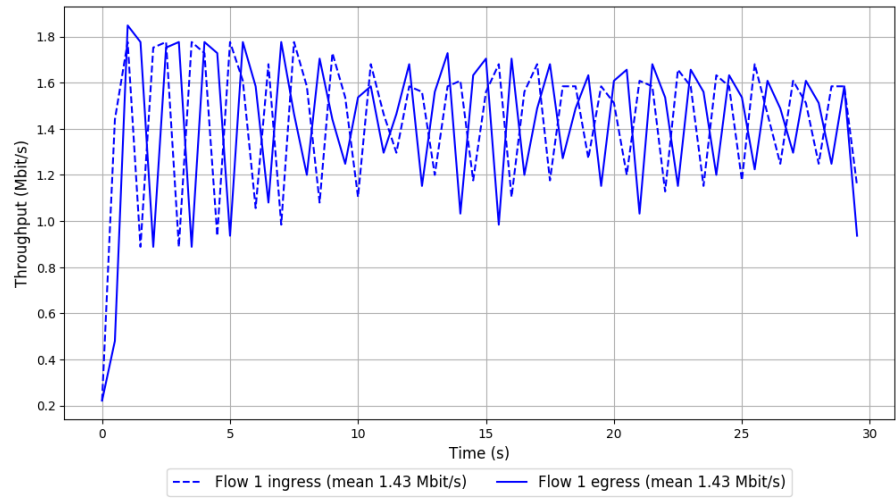
-- Flow 1:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 163.169 ms

Loss rate: 1.01%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-10-11 04:52:07

End at: 2017-10-11 04:52:37

Below is generated by plot.py at 2017-10-11 08:37:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.26 Mbit/s

95th percentile per-packet one-way delay: 171.289 ms

Loss rate: 0.93%

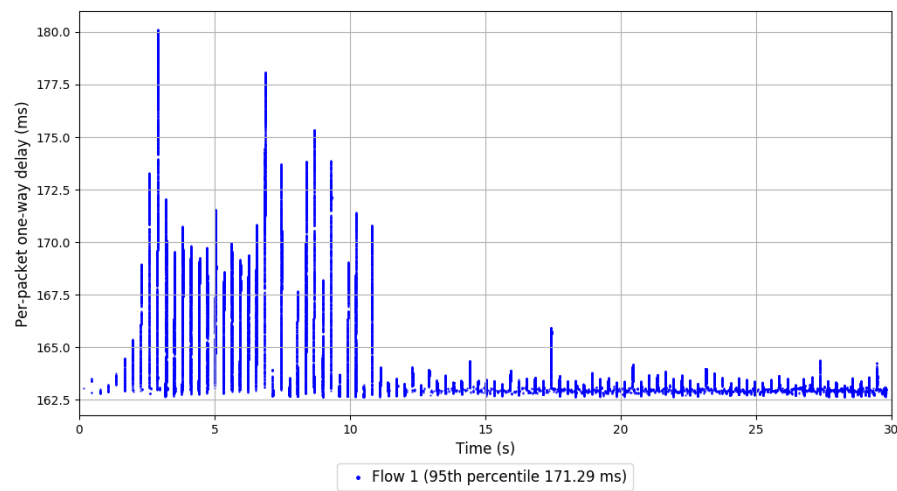
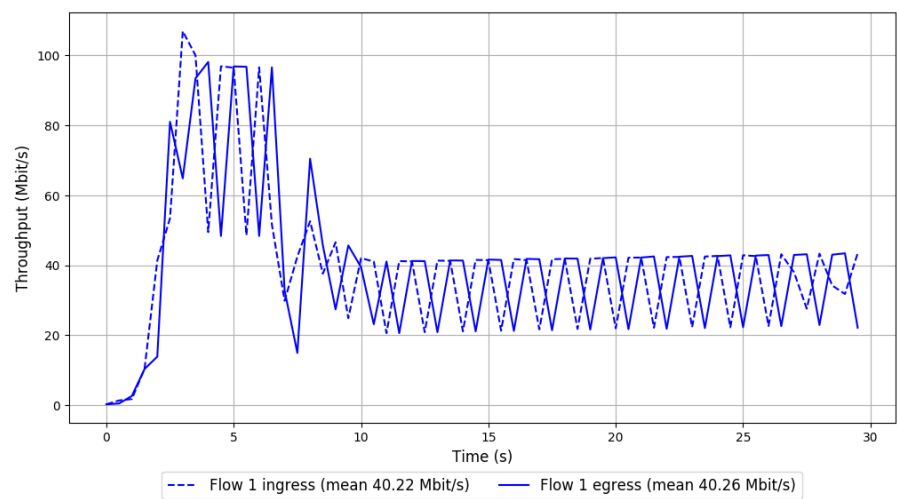
-- Flow 1:

Average throughput: 40.26 Mbit/s

95th percentile per-packet one-way delay: 171.289 ms

Loss rate: 0.93%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-10-11 05:03:42

End at: 2017-10-11 05:04:12

Below is generated by plot.py at 2017-10-11 08:37:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.78 Mbit/s

95th percentile per-packet one-way delay: 164.053 ms

Loss rate: 1.03%

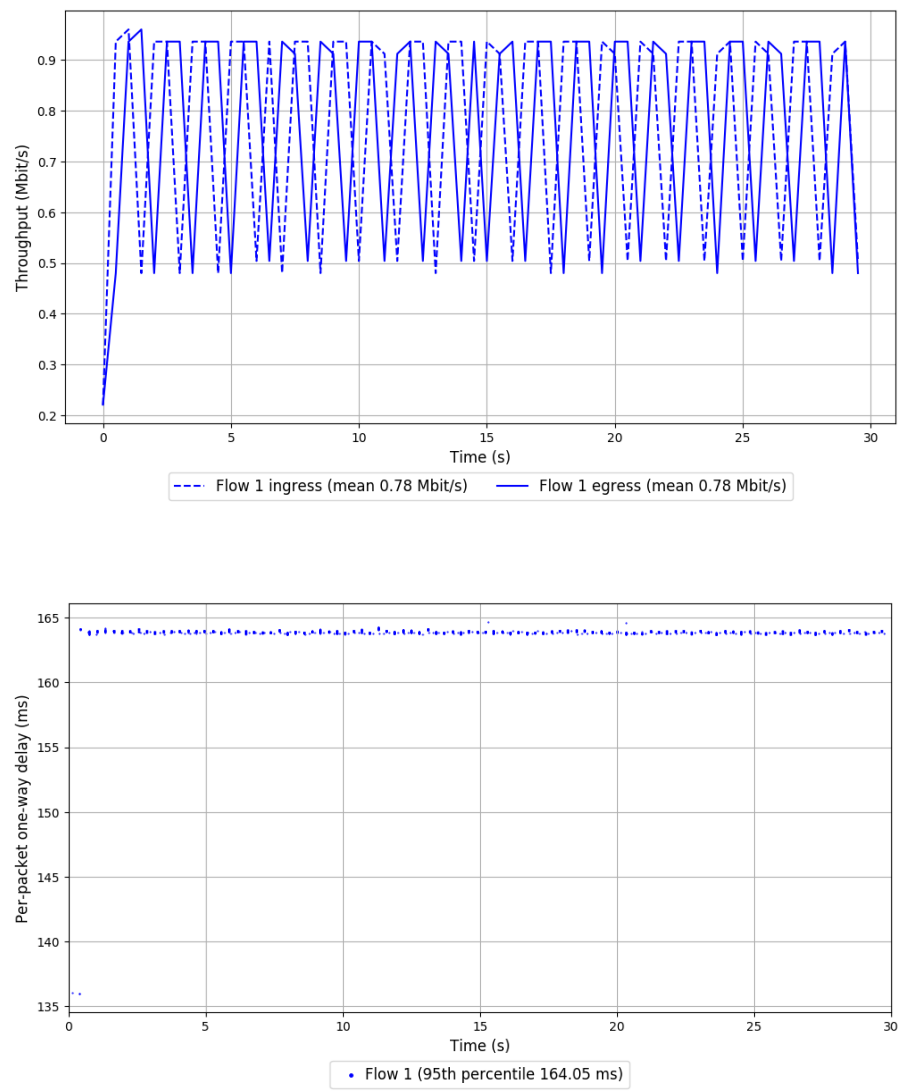
-- Flow 1:

Average throughput: 0.78 Mbit/s

95th percentile per-packet one-way delay: 164.053 ms

Loss rate: 1.03%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-10-11 05:15:05

End at: 2017-10-11 05:15:35

Below is generated by plot.py at 2017-10-11 08:37:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.59 Mbit/s

95th percentile per-packet one-way delay: 164.679 ms

Loss rate: 1.12%

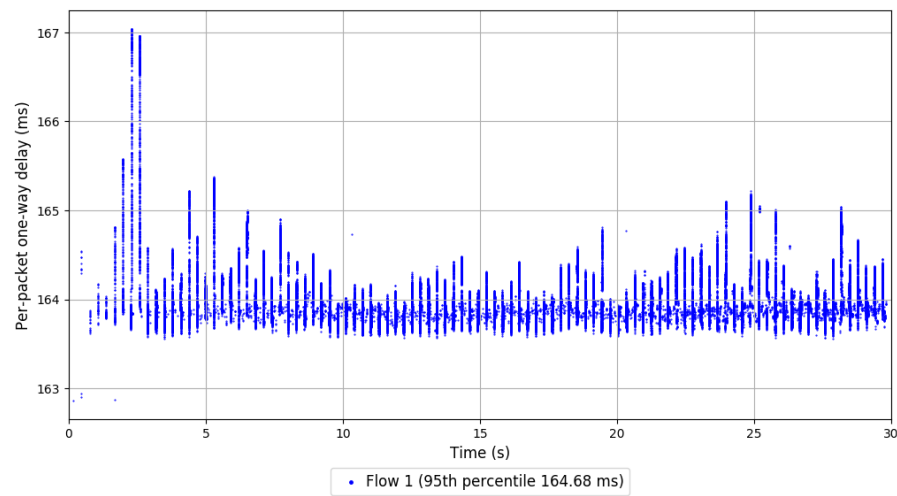
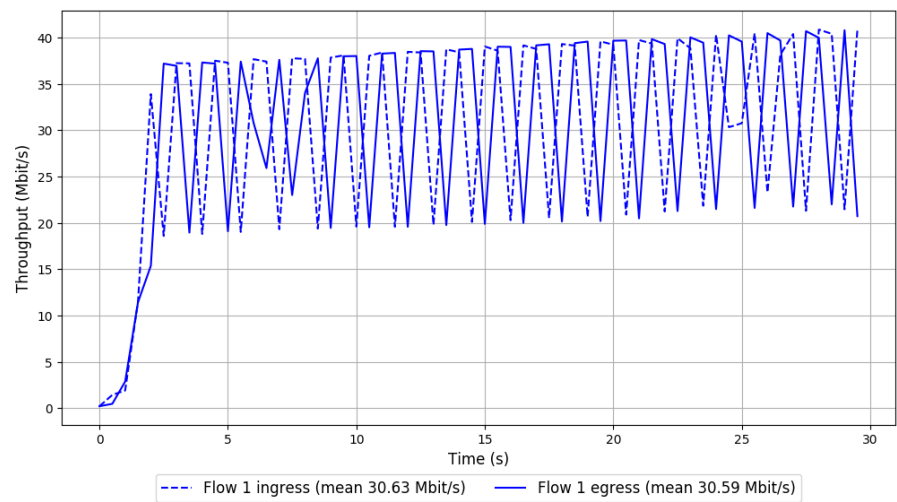
-- Flow 1:

Average throughput: 30.59 Mbit/s

95th percentile per-packet one-way delay: 164.679 ms

Loss rate: 1.12%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-10-11 05:27:05

End at: 2017-10-11 05:27:35

Below is generated by plot.py at 2017-10-11 08:37:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.91 Mbit/s

95th percentile per-packet one-way delay: 166.332 ms

Loss rate: 1.11%

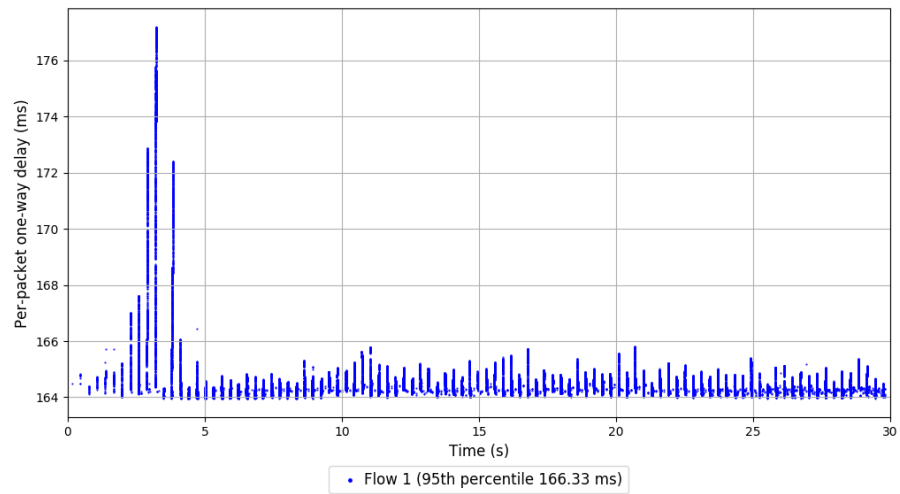
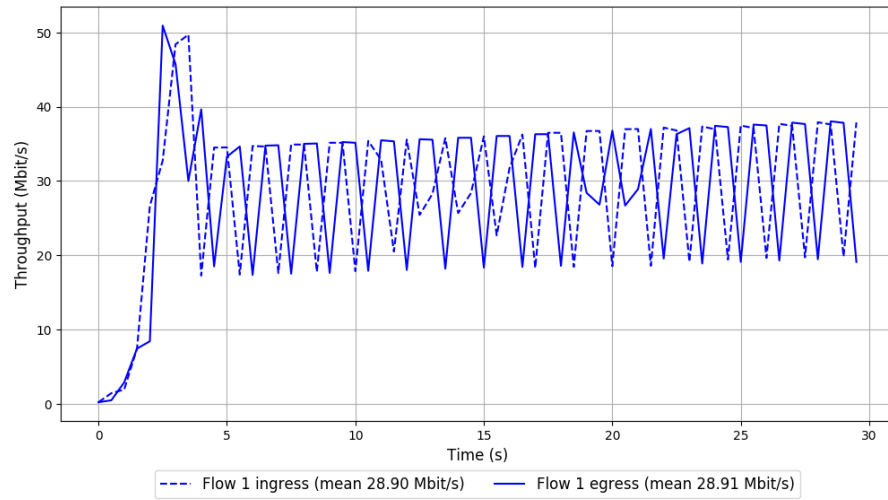
-- Flow 1:

Average throughput: 28.91 Mbit/s

95th percentile per-packet one-way delay: 166.332 ms

Loss rate: 1.11%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-10-11 05:38:16

End at: 2017-10-11 05:38:46

Below is generated by plot.py at 2017-10-11 08:37:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.76 Mbit/s

95th percentile per-packet one-way delay: 164.500 ms

Loss rate: 1.00%

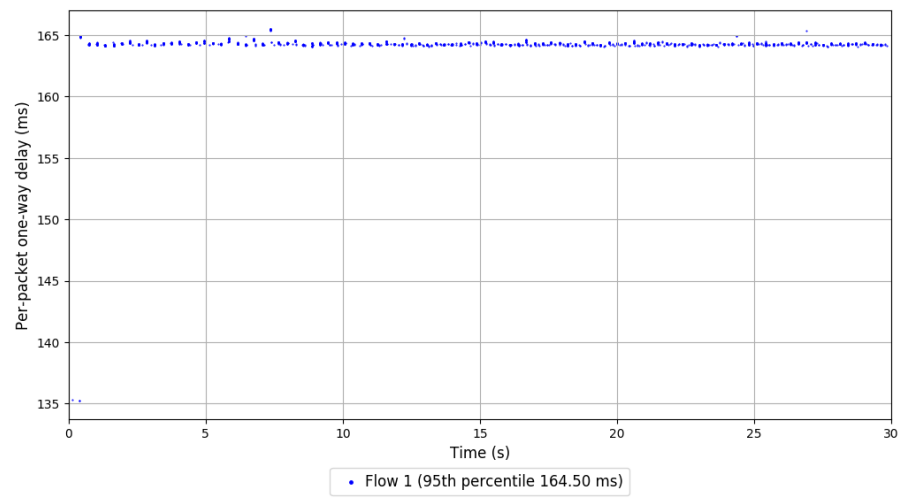
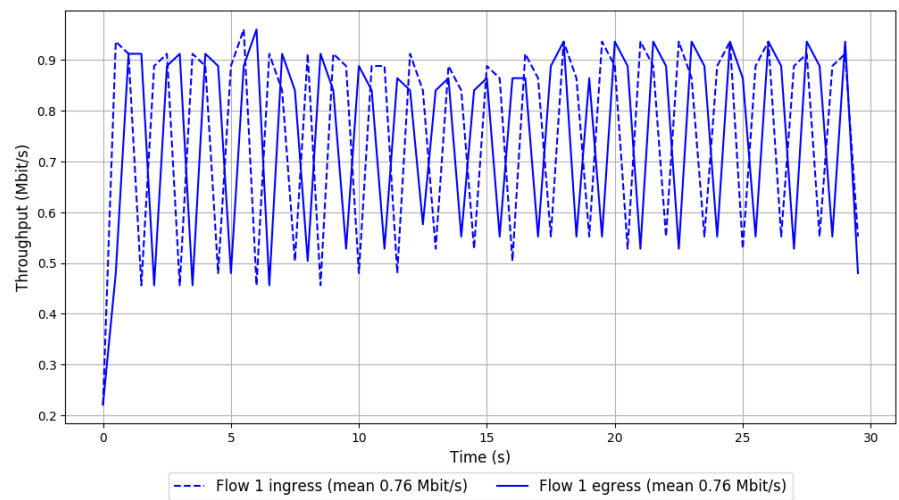
-- Flow 1:

Average throughput: 0.76 Mbit/s

95th percentile per-packet one-way delay: 164.500 ms

Loss rate: 1.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-10-11 05:49:55

End at: 2017-10-11 05:50:25

Below is generated by plot.py at 2017-10-11 08:37:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.56 Mbit/s

95th percentile per-packet one-way delay: 166.171 ms

Loss rate: 0.50%

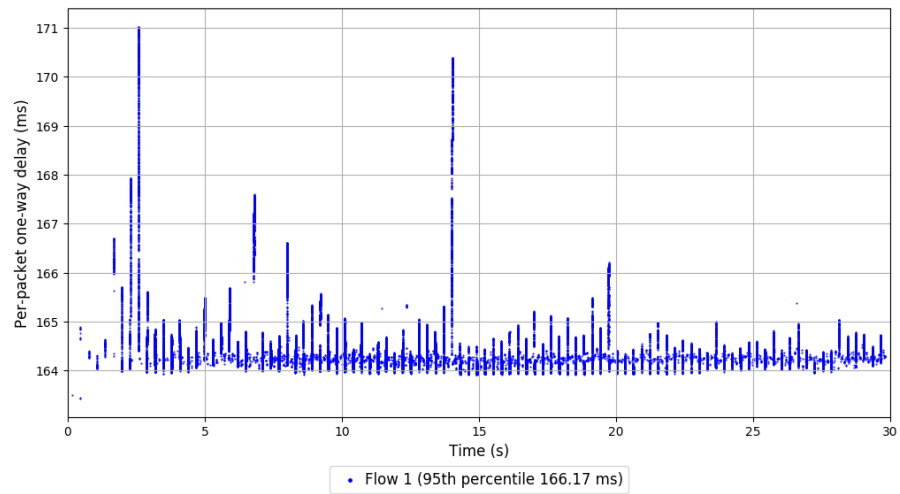
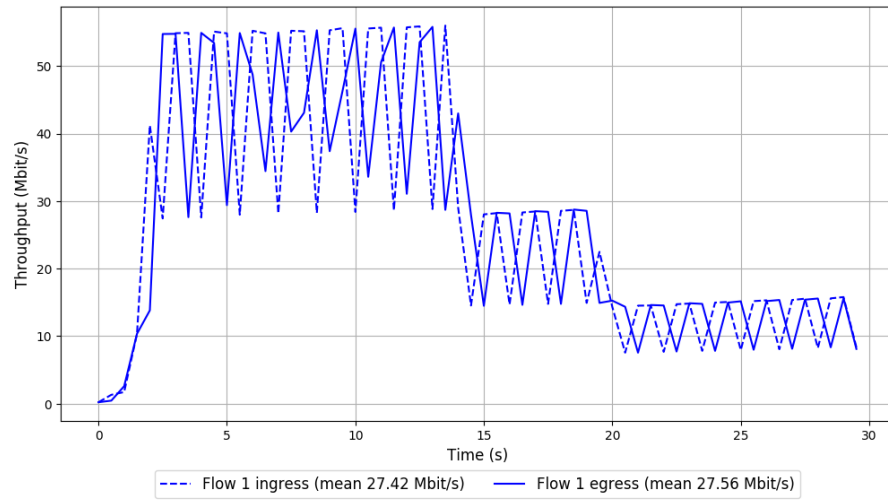
-- Flow 1:

Average throughput: 27.56 Mbit/s

95th percentile per-packet one-way delay: 166.171 ms

Loss rate: 0.50%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-10-11 06:01:38

End at: 2017-10-11 06:02:08

Below is generated by plot.py at 2017-10-11 08:37:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.34 Mbit/s

95th percentile per-packet one-way delay: 143.429 ms

Loss rate: 0.67%

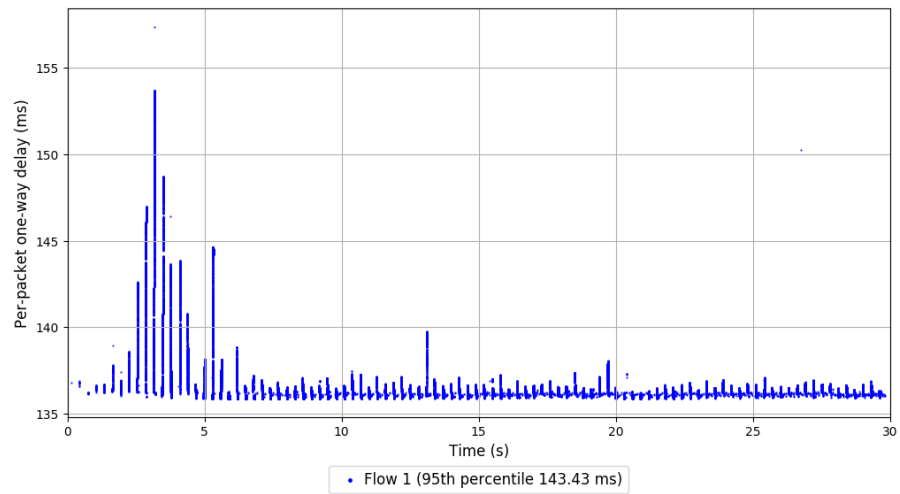
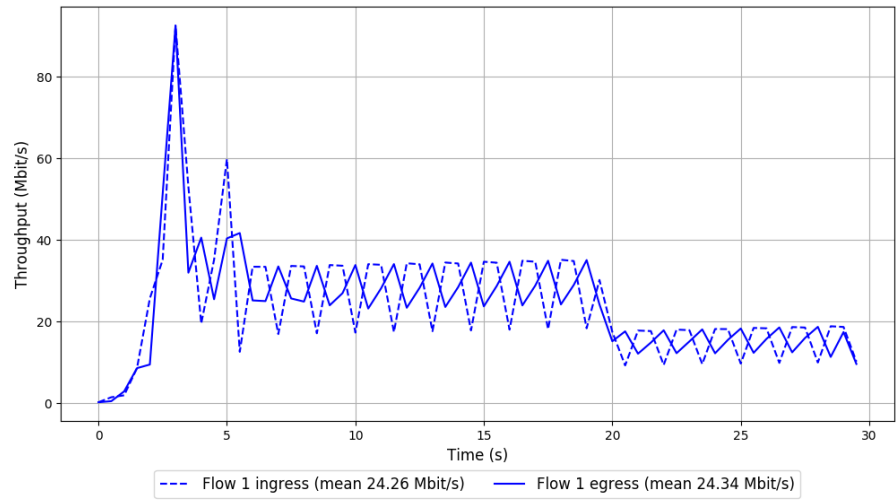
-- Flow 1:

Average throughput: 24.34 Mbit/s

95th percentile per-packet one-way delay: 143.429 ms

Loss rate: 0.67%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-10-11 06:13:43

End at: 2017-10-11 06:14:13

Below is generated by plot.py at 2017-10-11 08:37:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.84 Mbit/s

95th percentile per-packet one-way delay: 139.932 ms

Loss rate: 0.33%

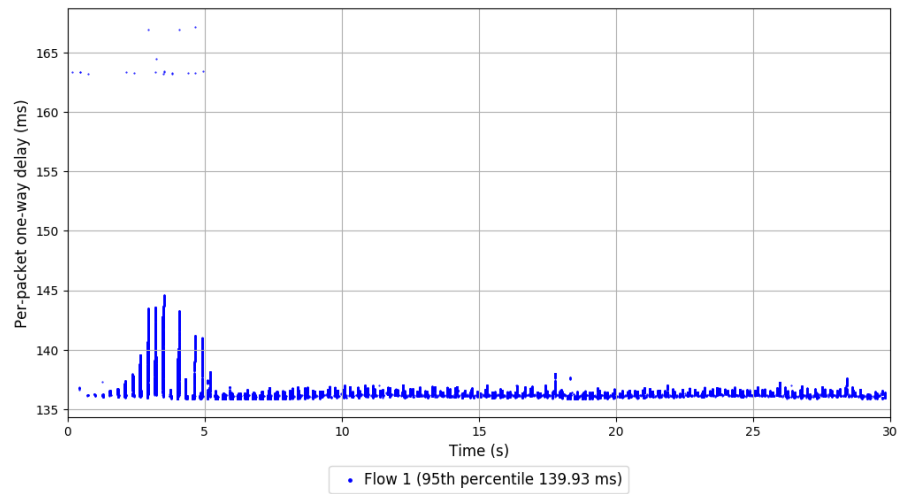
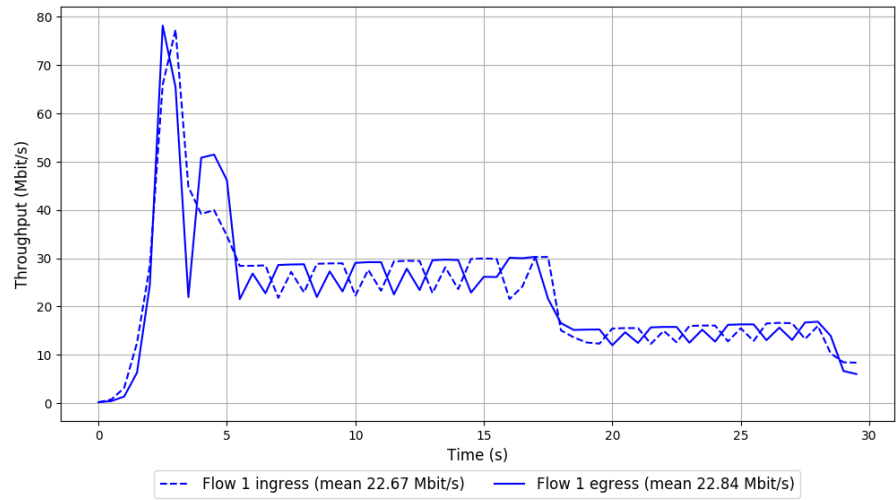
-- Flow 1:

Average throughput: 22.84 Mbit/s

95th percentile per-packet one-way delay: 139.932 ms

Loss rate: 0.33%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-10-11 04:17:32

End at: 2017-10-11 04:18:02

Below is generated by plot.py at 2017-10-11 08:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 248.41 Mbit/s

95th percentile per-packet one-way delay: 182.733 ms

Loss rate: 0.54%

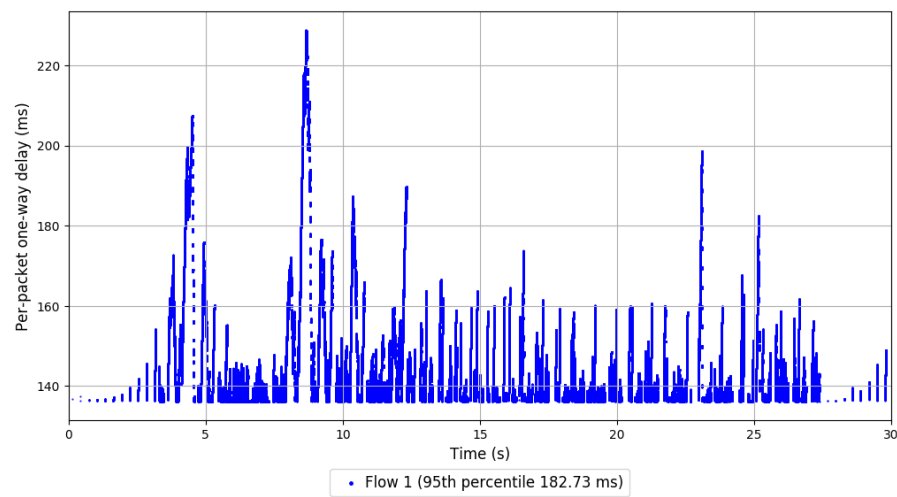
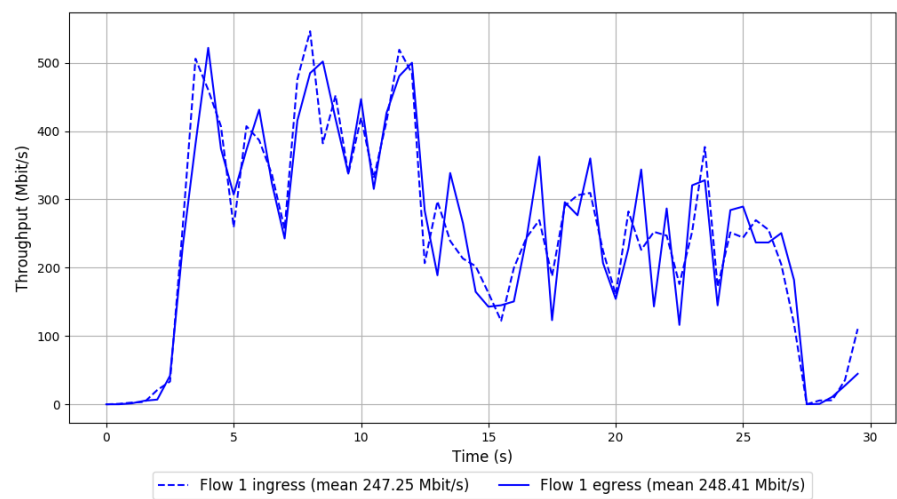
-- Flow 1:

Average throughput: 248.41 Mbit/s

95th percentile per-packet one-way delay: 182.733 ms

Loss rate: 0.54%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-10-11 04:29:56

End at: 2017-10-11 04:30:26

Below is generated by plot.py at 2017-10-11 08:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.83 Mbit/s

95th percentile per-packet one-way delay: 282.944 ms

Loss rate: 5.19%

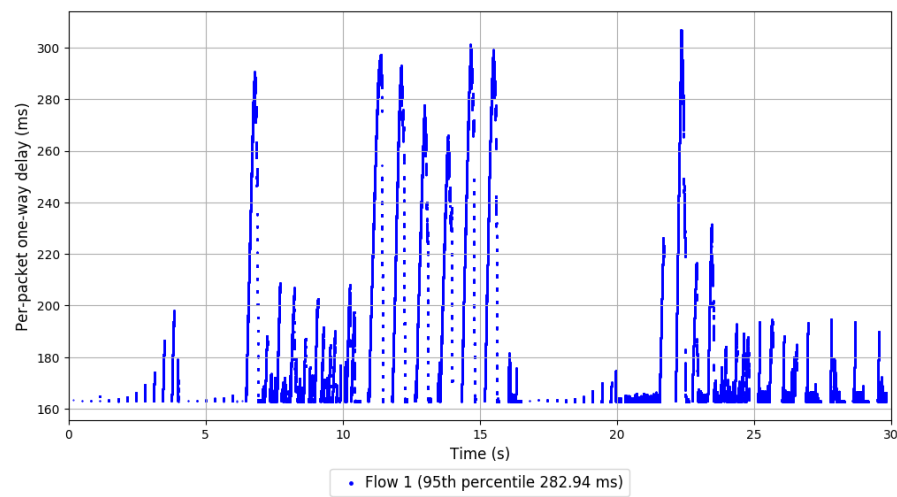
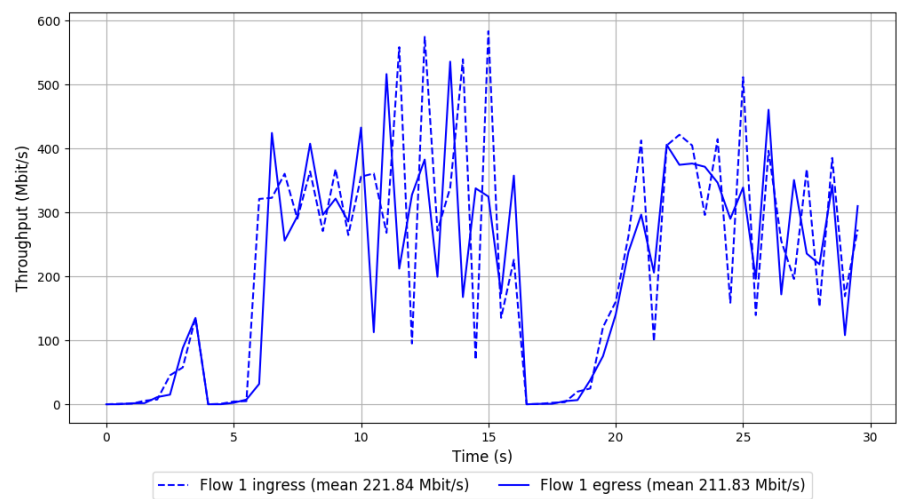
-- Flow 1:

Average throughput: 211.83 Mbit/s

95th percentile per-packet one-way delay: 282.944 ms

Loss rate: 5.19%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-10-11 04:42:07

End at: 2017-10-11 04:42:37

Below is generated by plot.py at 2017-10-11 08:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.73 Mbit/s

95th percentile per-packet one-way delay: 208.904 ms

Loss rate: 1.15%

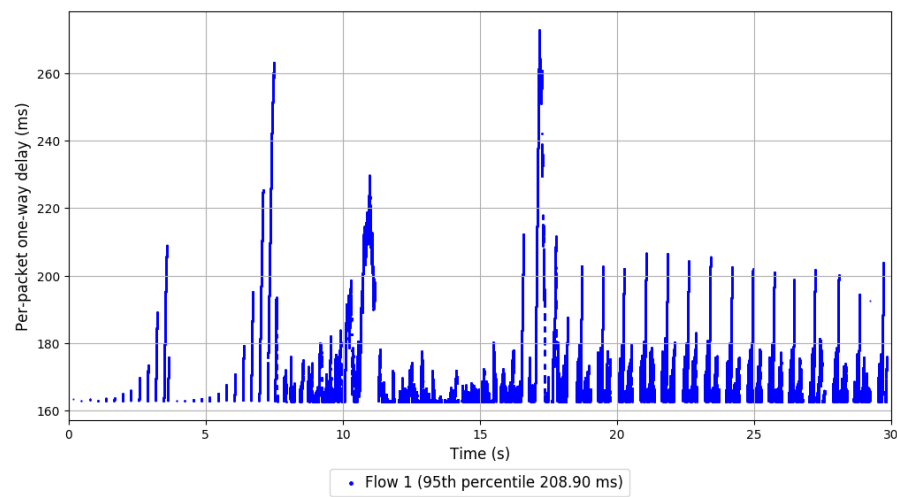
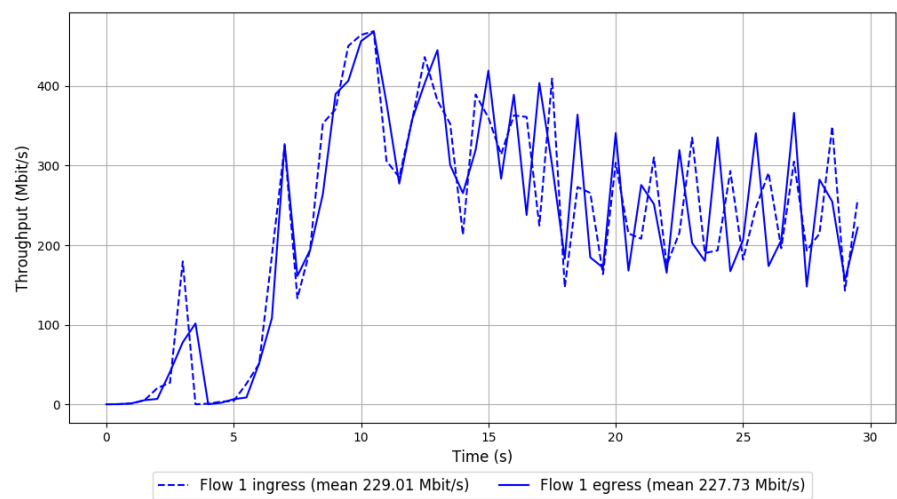
-- Flow 1:

Average throughput: 227.73 Mbit/s

95th percentile per-packet one-way delay: 208.904 ms

Loss rate: 1.15%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-10-11 04:54:25

End at: 2017-10-11 04:54:55

Below is generated by plot.py at 2017-10-11 08:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.23 Mbit/s

95th percentile per-packet one-way delay: 241.349 ms

Loss rate: 0.46%

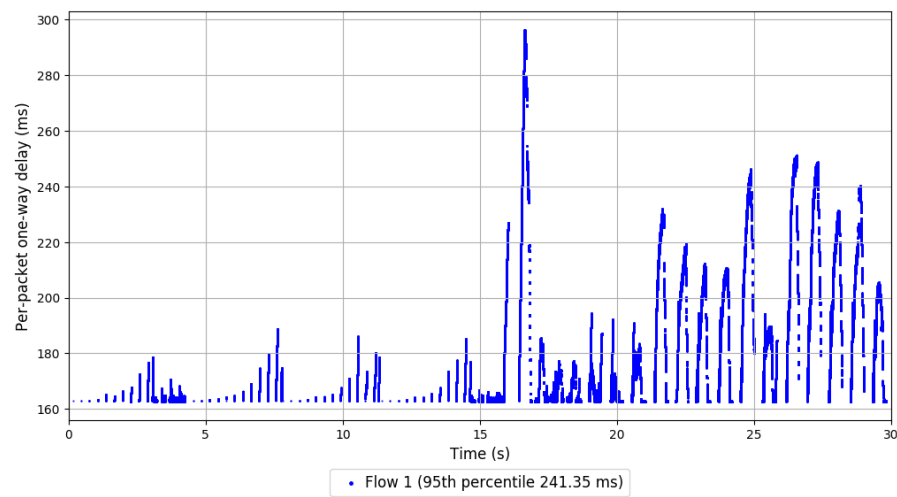
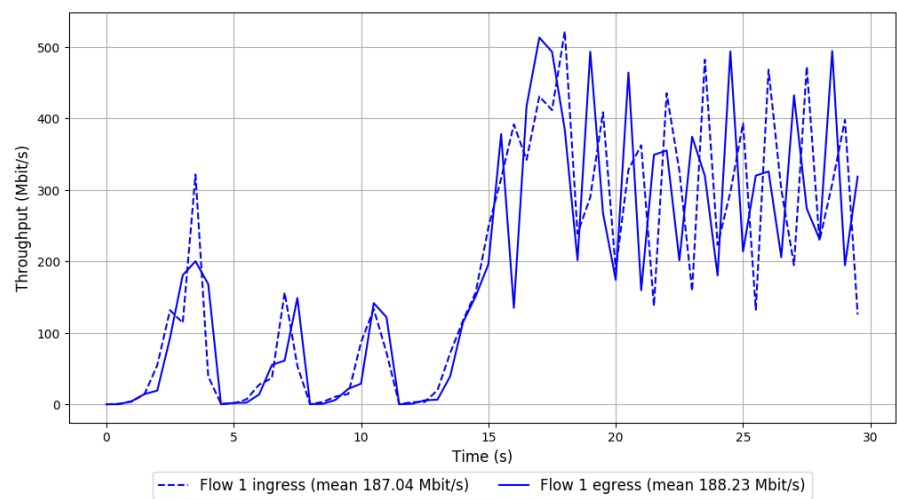
-- Flow 1:

Average throughput: 188.23 Mbit/s

95th percentile per-packet one-way delay: 241.349 ms

Loss rate: 0.46%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-10-11 05:05:56

End at: 2017-10-11 05:06:26

Below is generated by plot.py at 2017-10-11 08:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.47 Mbit/s

95th percentile per-packet one-way delay: 200.596 ms

Loss rate: 1.17%

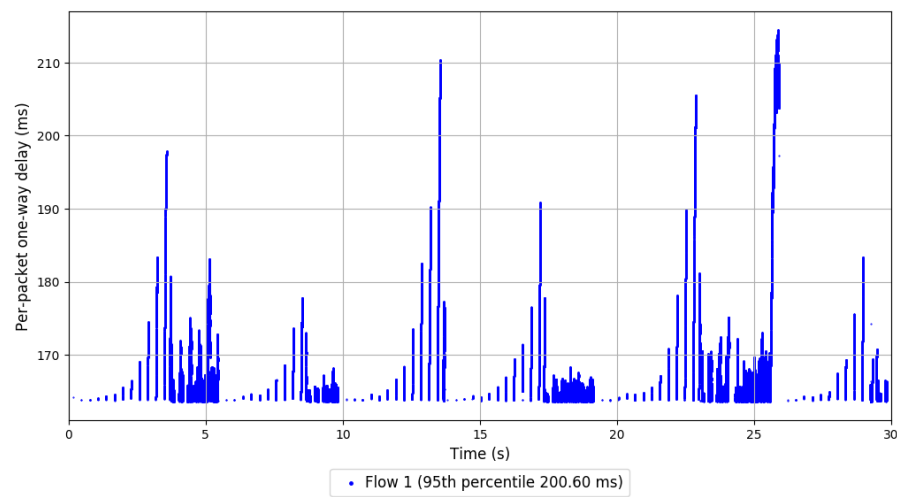
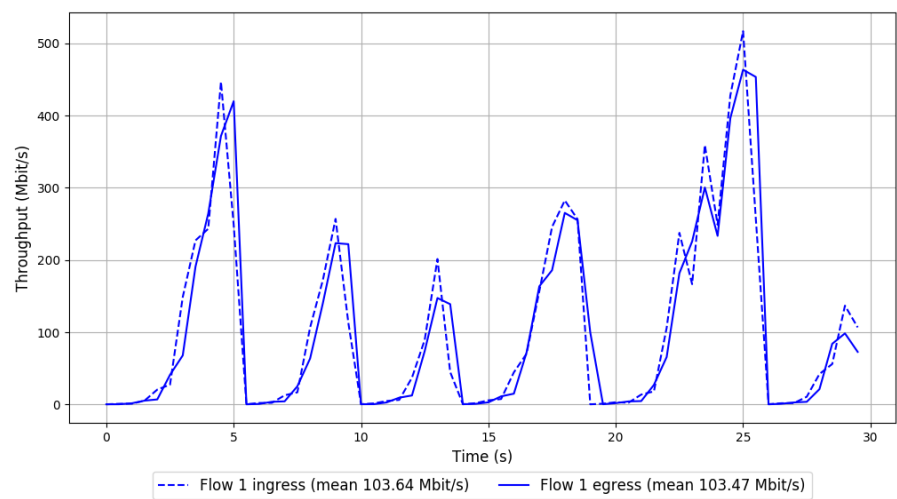
-- Flow 1:

Average throughput: 103.47 Mbit/s

95th percentile per-packet one-way delay: 200.596 ms

Loss rate: 1.17%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-10-11 05:17:22

End at: 2017-10-11 05:17:52

Below is generated by plot.py at 2017-10-11 08:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.02 Mbit/s

95th percentile per-packet one-way delay: 174.375 ms

Loss rate: 2.12%

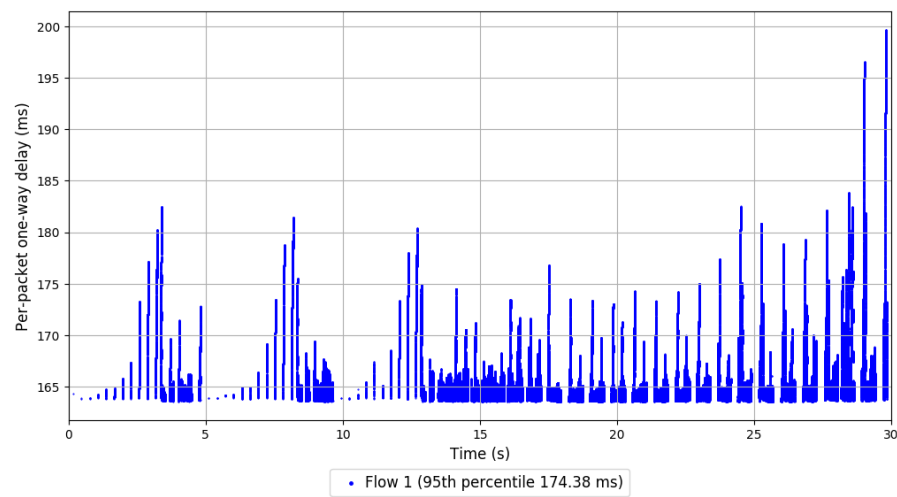
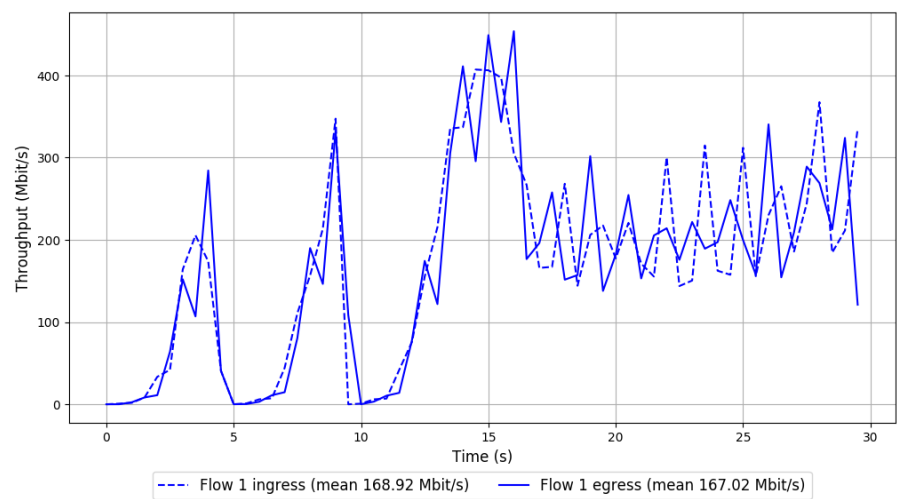
-- Flow 1:

Average throughput: 167.02 Mbit/s

95th percentile per-packet one-way delay: 174.375 ms

Loss rate: 2.12%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-10-11 05:29:22

End at: 2017-10-11 05:29:52

Below is generated by plot.py at 2017-10-11 08:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.25 Mbit/s

95th percentile per-packet one-way delay: 180.950 ms

Loss rate: 1.98%

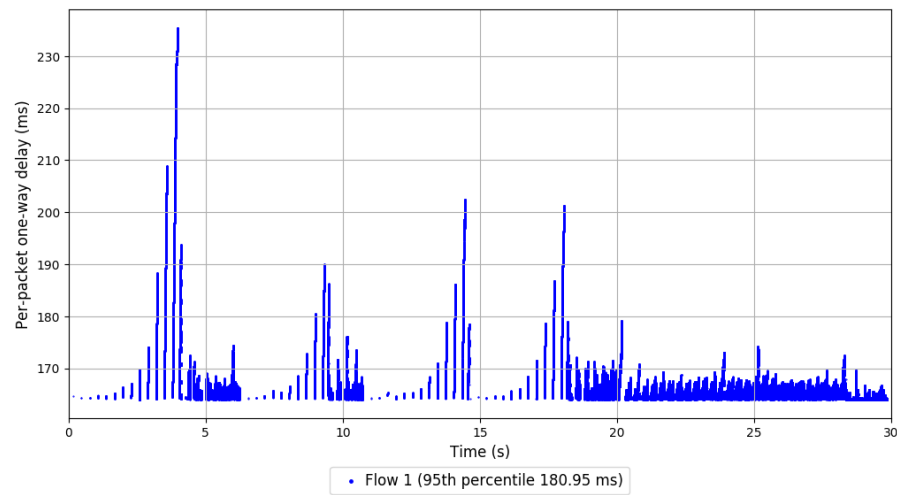
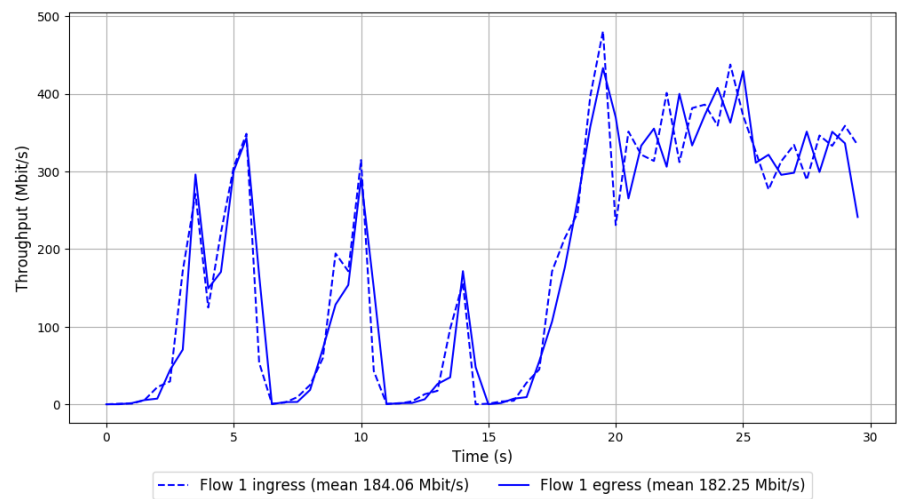
-- Flow 1:

Average throughput: 182.25 Mbit/s

95th percentile per-packet one-way delay: 180.950 ms

Loss rate: 1.98%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-10-11 05:40:31

End at: 2017-10-11 05:41:01

Below is generated by plot.py at 2017-10-11 08:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.69 Mbit/s

95th percentile per-packet one-way delay: 233.876 ms

Loss rate: 2.84%

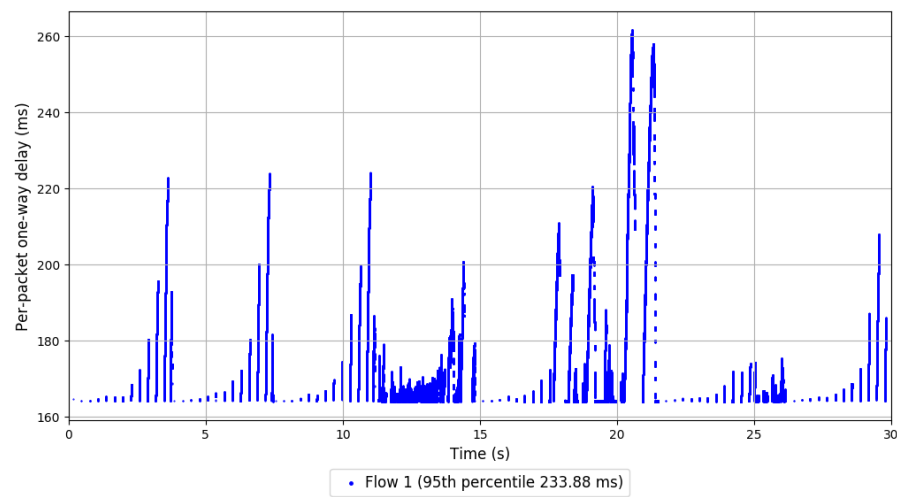
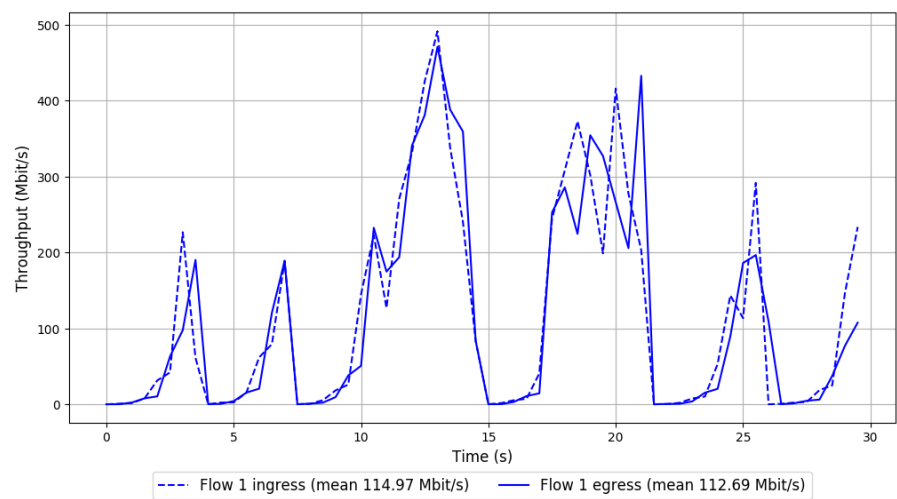
-- Flow 1:

Average throughput: 112.69 Mbit/s

95th percentile per-packet one-way delay: 233.876 ms

Loss rate: 2.84%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-10-11 05:52:15

End at: 2017-10-11 05:52:45

Below is generated by plot.py at 2017-10-11 08:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.83 Mbit/s

95th percentile per-packet one-way delay: 178.723 ms

Loss rate: 4.09%

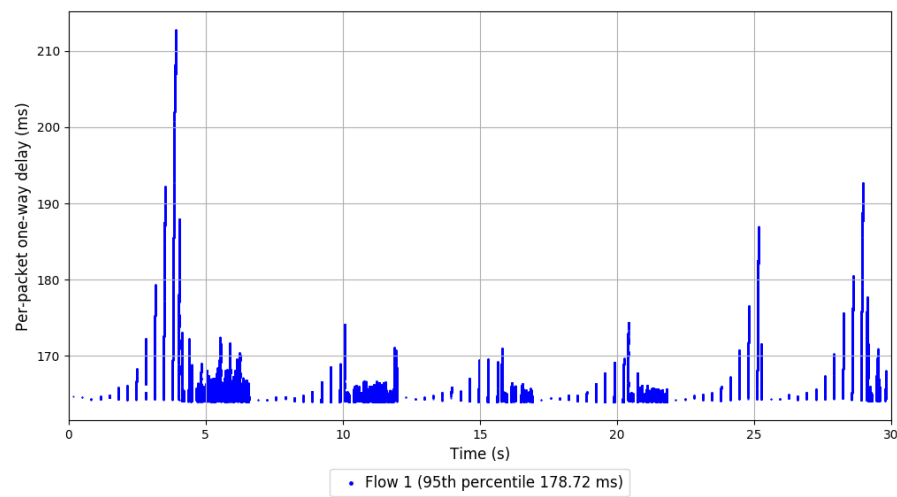
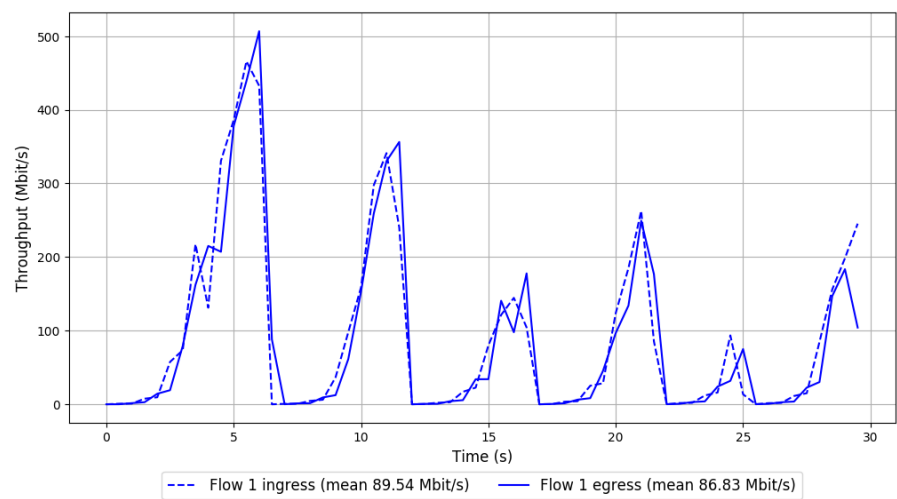
-- Flow 1:

Average throughput: 86.83 Mbit/s

95th percentile per-packet one-way delay: 178.723 ms

Loss rate: 4.09%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-10-11 06:03:57

End at: 2017-10-11 06:04:27

Below is generated by plot.py at 2017-10-11 08:40:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.75 Mbit/s

95th percentile per-packet one-way delay: 154.545 ms

Loss rate: 0.02%

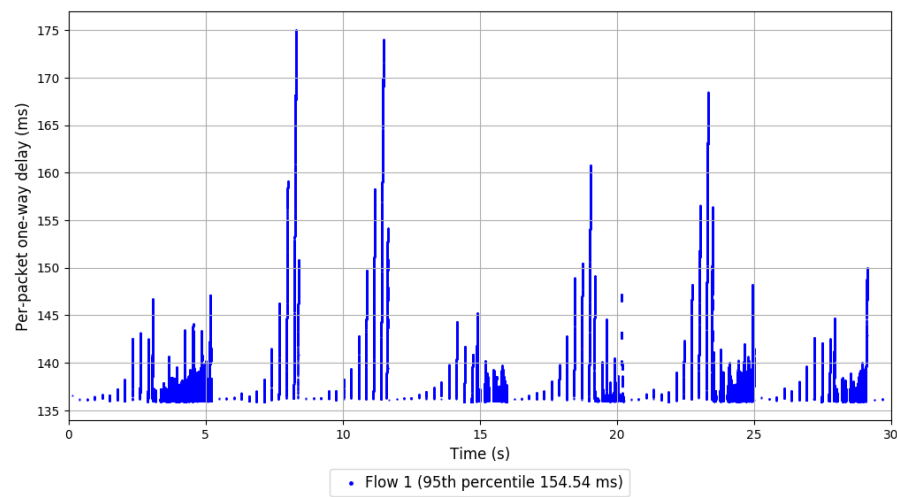
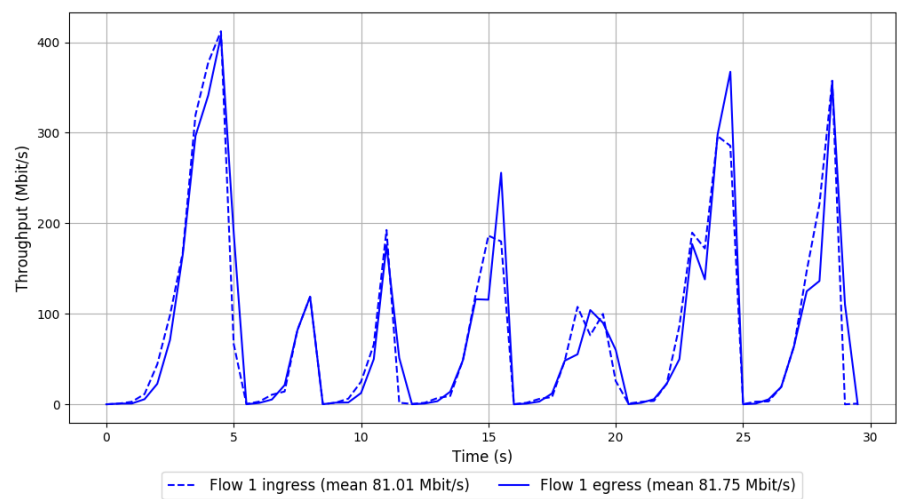
-- Flow 1:

Average throughput: 81.75 Mbit/s

95th percentile per-packet one-way delay: 154.545 ms

Loss rate: 0.02%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-10-11 04:21:43

End at: 2017-10-11 04:22:13

Below is generated by plot.py at 2017-10-11 08:42:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.47 Mbit/s

95th percentile per-packet one-way delay: 136.120 ms

Loss rate: 1.03%

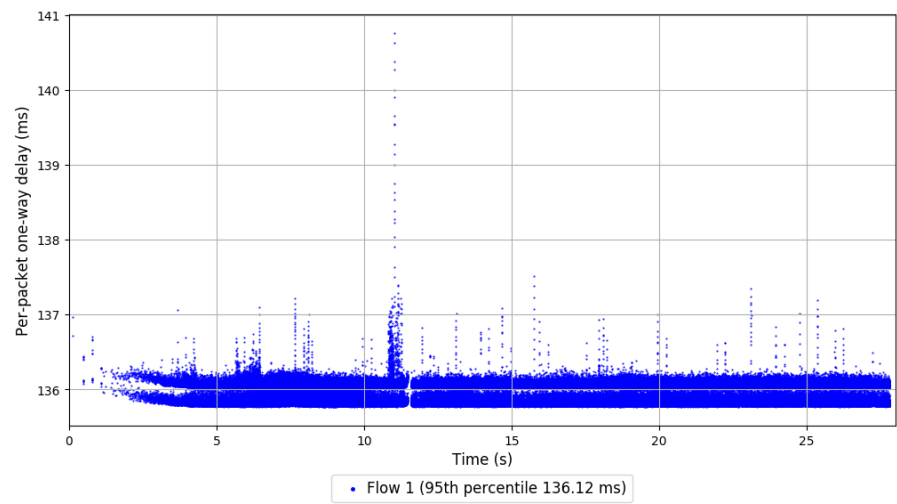
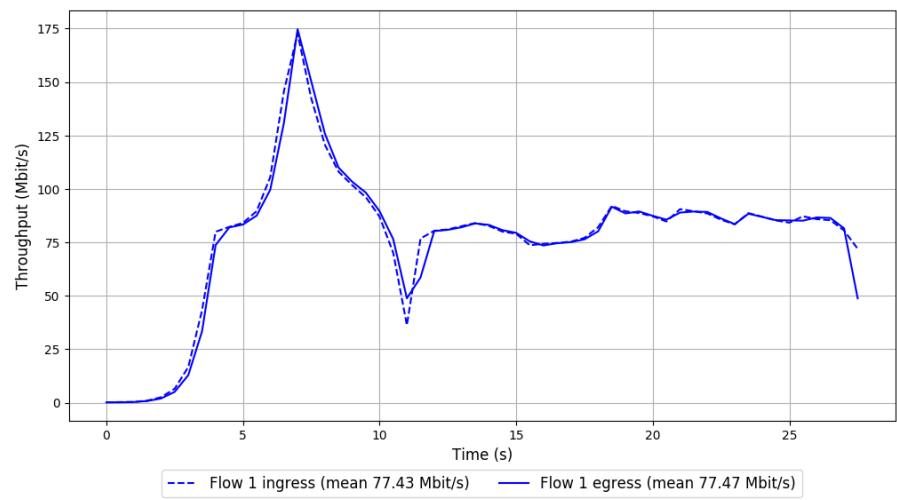
-- Flow 1:

Average throughput: 77.47 Mbit/s

95th percentile per-packet one-way delay: 136.120 ms

Loss rate: 1.03%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

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

End at: 2017-10-11 04:34:34

Below is generated by plot.py at 2017-10-11 08:42:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.65 Mbit/s

95th percentile per-packet one-way delay: 162.824 ms

Loss rate: 1.54%

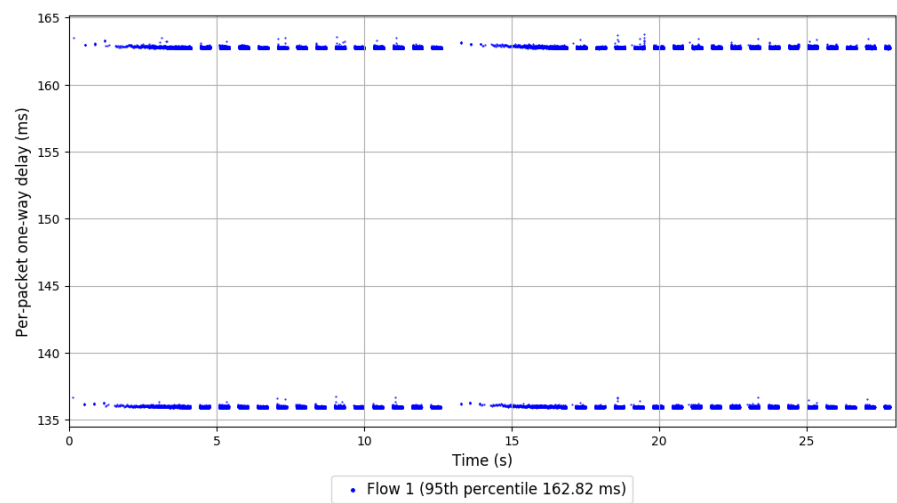
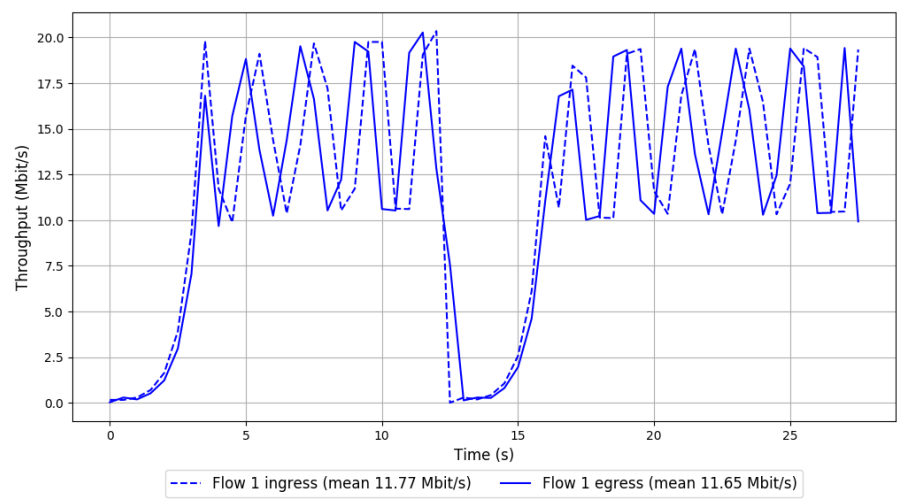
-- Flow 1:

Average throughput: 11.65 Mbit/s

95th percentile per-packet one-way delay: 162.824 ms

Loss rate: 1.54%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-10-11 04:46:21

End at: 2017-10-11 04:46:51

Below is generated by plot.py at 2017-10-11 08:42:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.17 Mbit/s

95th percentile per-packet one-way delay: 162.791 ms

Loss rate: 1.17%

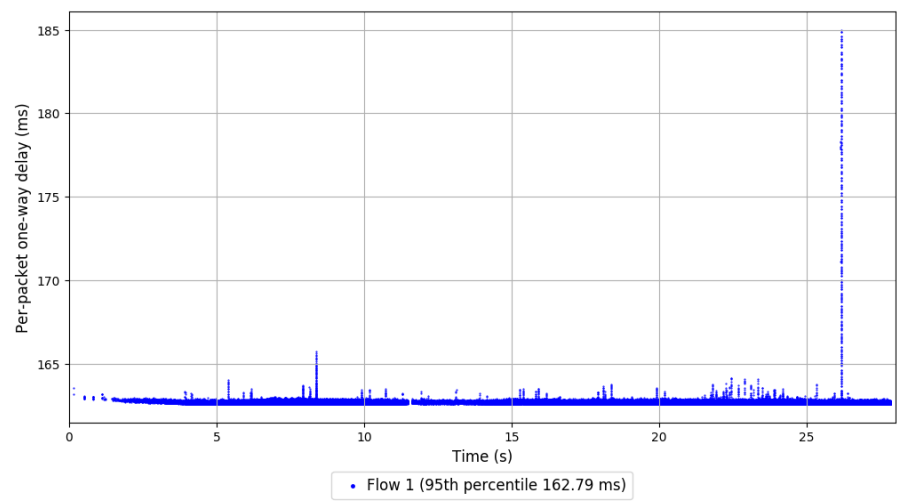
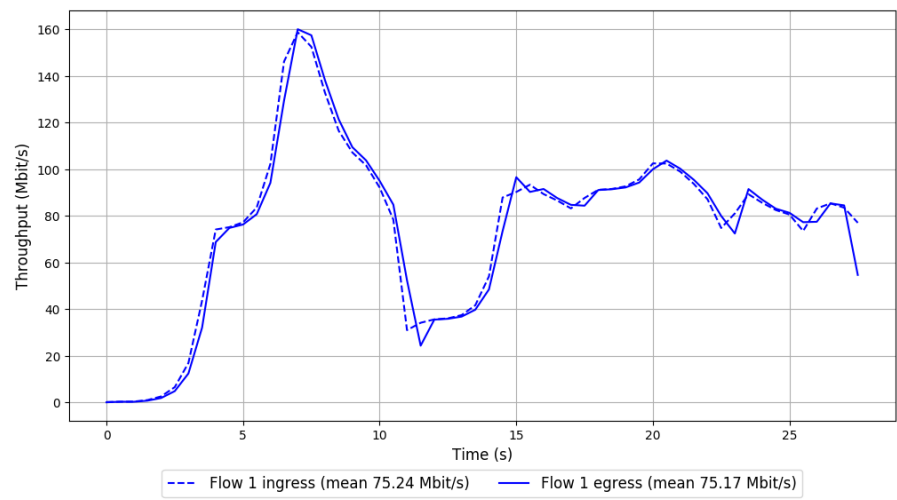
-- Flow 1:

Average throughput: 75.17 Mbit/s

95th percentile per-packet one-way delay: 162.791 ms

Loss rate: 1.17%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-10-11 04:58:26

End at: 2017-10-11 04:58:56

Below is generated by plot.py at 2017-10-11 08:42:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.51 Mbit/s

95th percentile per-packet one-way delay: 163.058 ms

Loss rate: 1.15%

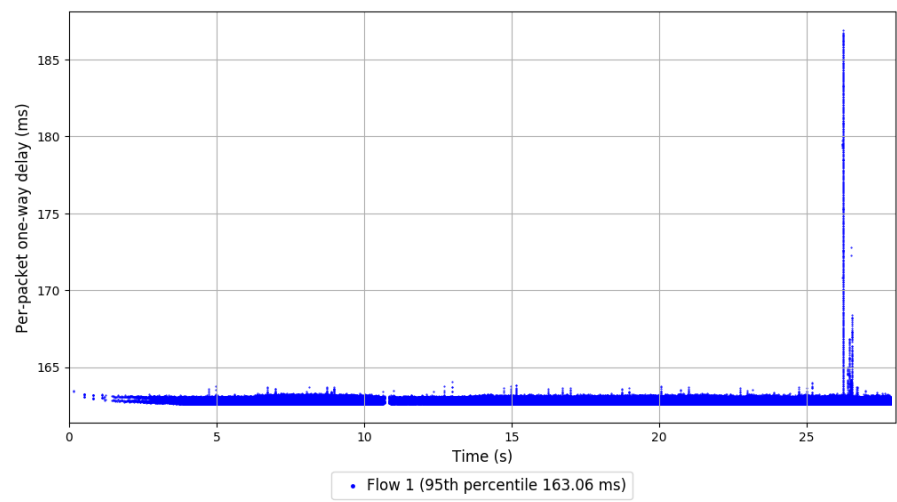
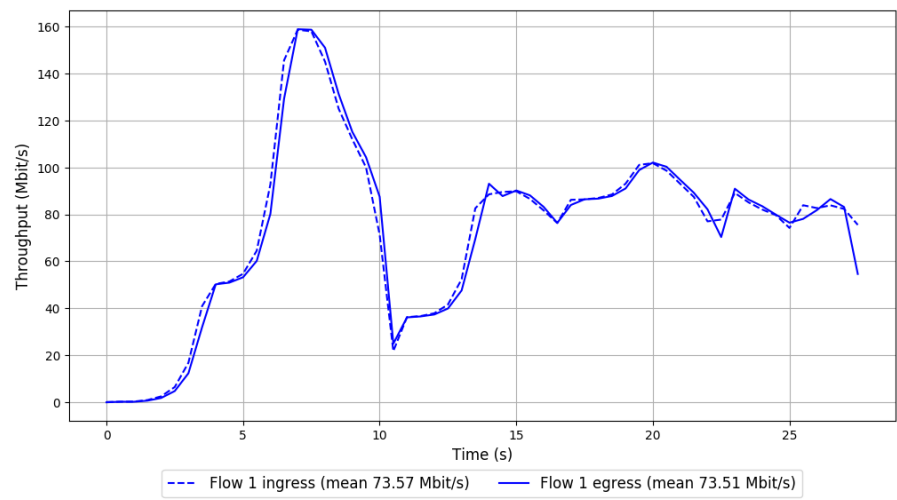
-- Flow 1:

Average throughput: 73.51 Mbit/s

95th percentile per-packet one-way delay: 163.058 ms

Loss rate: 1.15%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-10-11 05:09:52

End at: 2017-10-11 05:10:22

Below is generated by plot.py at 2017-10-11 08:42:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.02 Mbit/s

95th percentile per-packet one-way delay: 163.744 ms

Loss rate: 2.24%

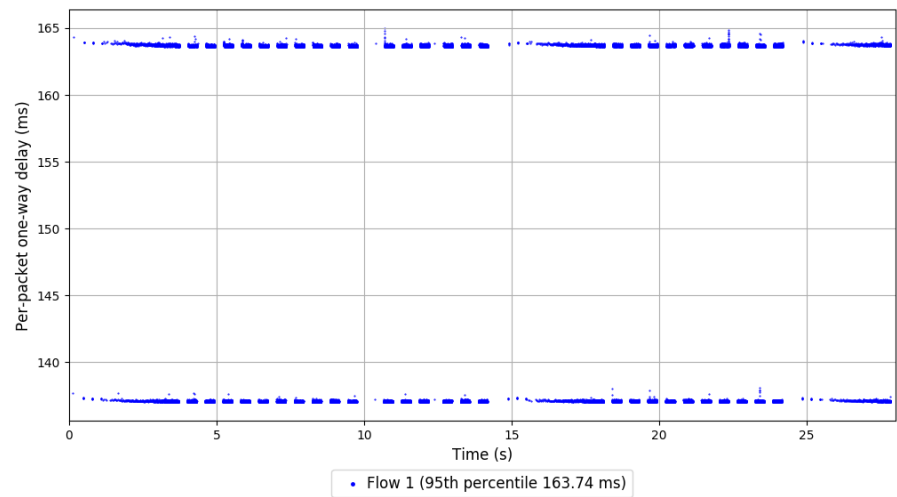
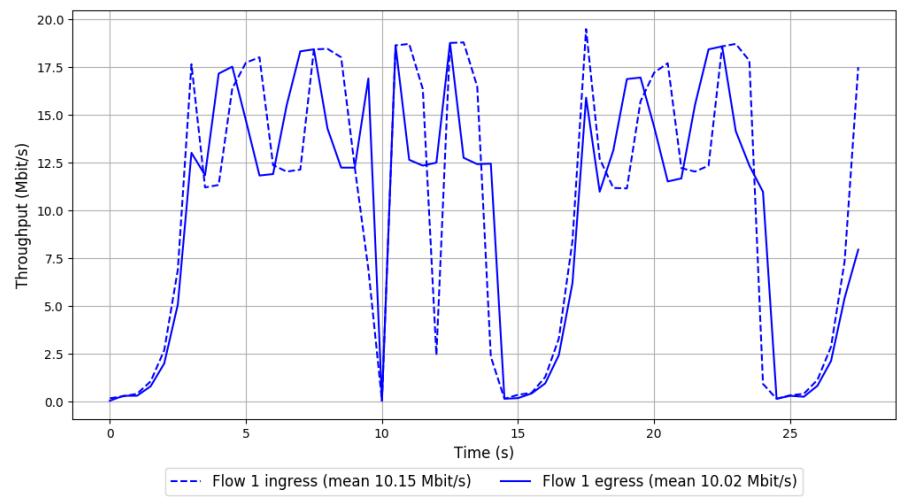
-- Flow 1:

Average throughput: 10.02 Mbit/s

95th percentile per-packet one-way delay: 163.744 ms

Loss rate: 2.24%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-10-11 05:21:22

End at: 2017-10-11 05:21:52

Below is generated by plot.py at 2017-10-11 08:42:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.99 Mbit/s

95th percentile per-packet one-way delay: 164.016 ms

Loss rate: 1.13%

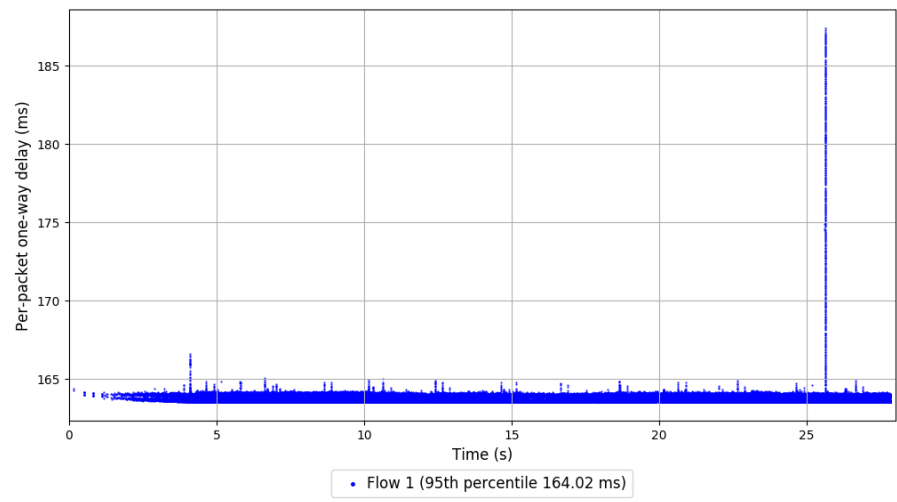
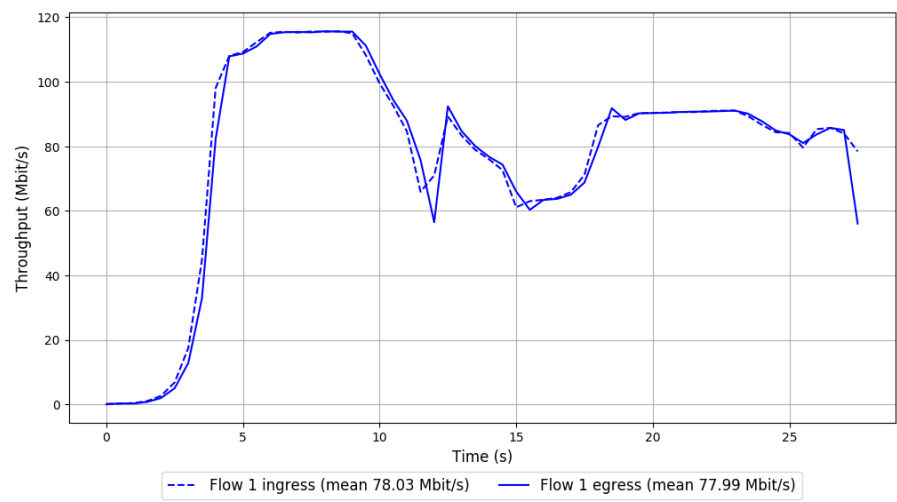
-- Flow 1:

Average throughput: 77.99 Mbit/s

95th percentile per-packet one-way delay: 164.016 ms

Loss rate: 1.13%

Run 6: Report of Copa — Data Link

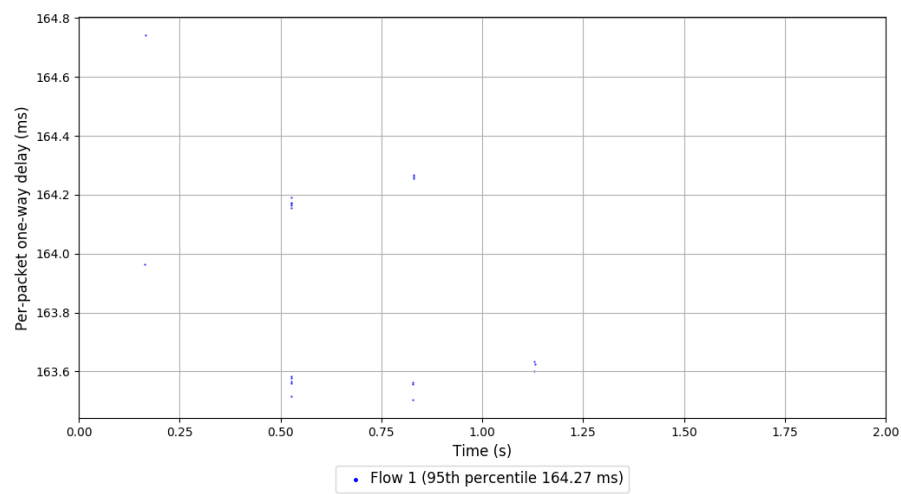
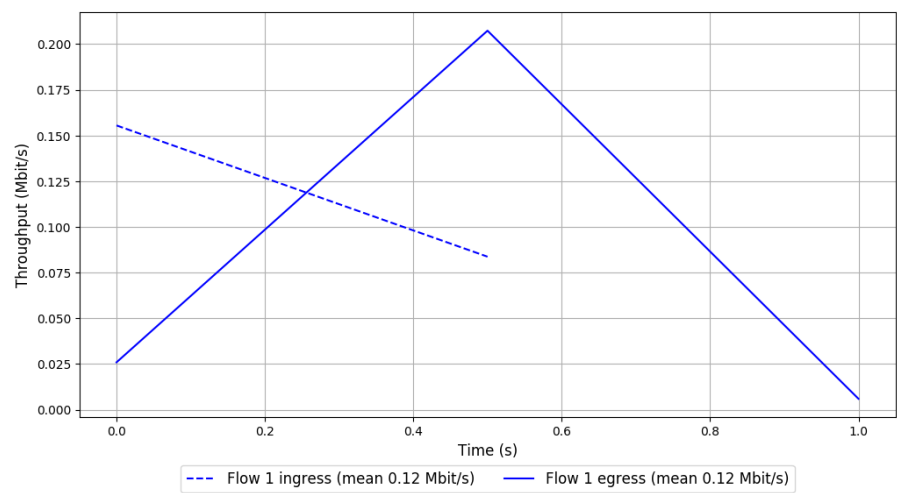


Run 7: Statistics of Copa

Start at: 2017-10-11 05:33:22

End at: 2017-10-11 05:33:52

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-10-11 05:44:29

End at: 2017-10-11 05:44:59

Below is generated by plot.py at 2017-10-11 08:42:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.59 Mbit/s

95th percentile per-packet one-way delay: 164.087 ms

Loss rate: 1.36%

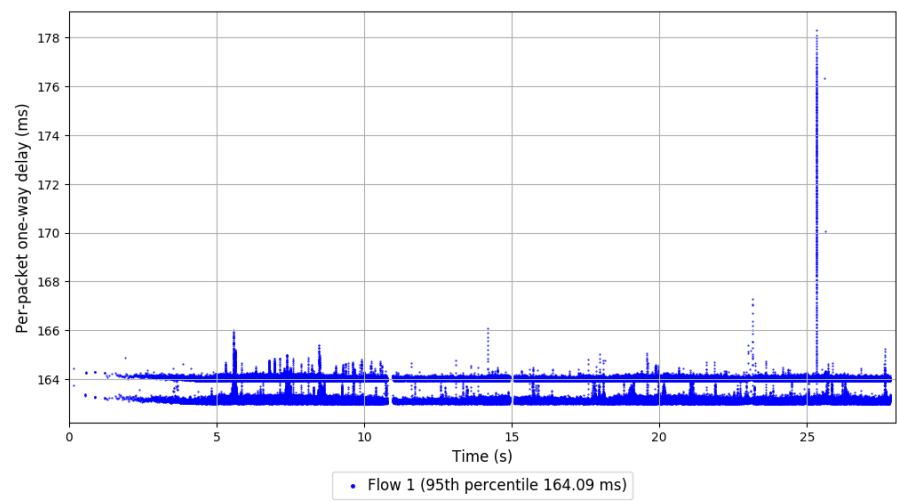
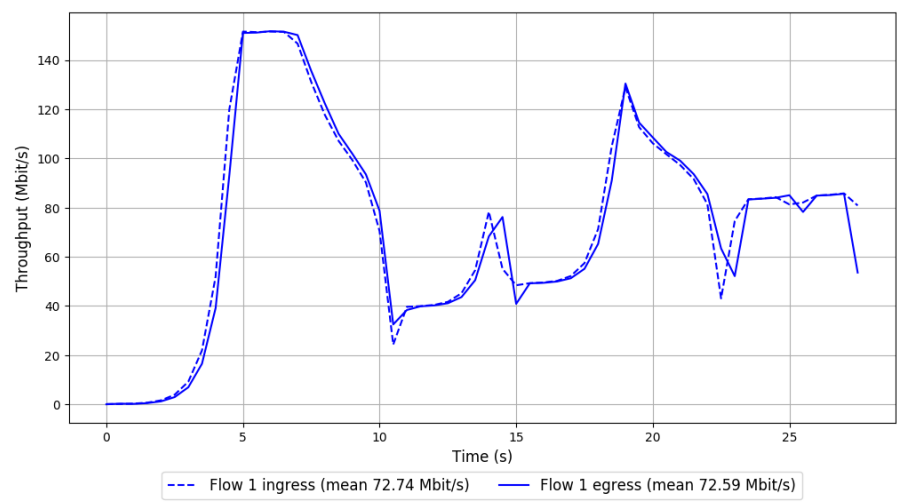
-- Flow 1:

Average throughput: 72.59 Mbit/s

95th percentile per-packet one-way delay: 164.087 ms

Loss rate: 1.36%

Run 8: Report of Copa — Data Link

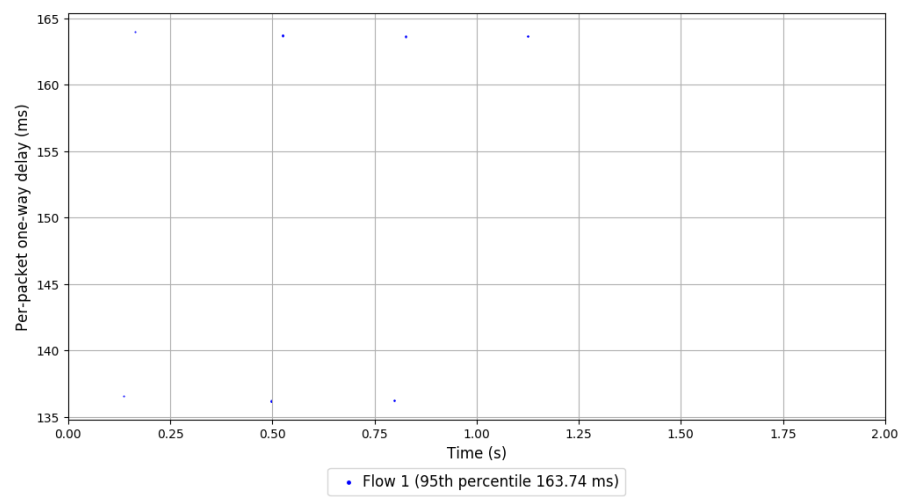
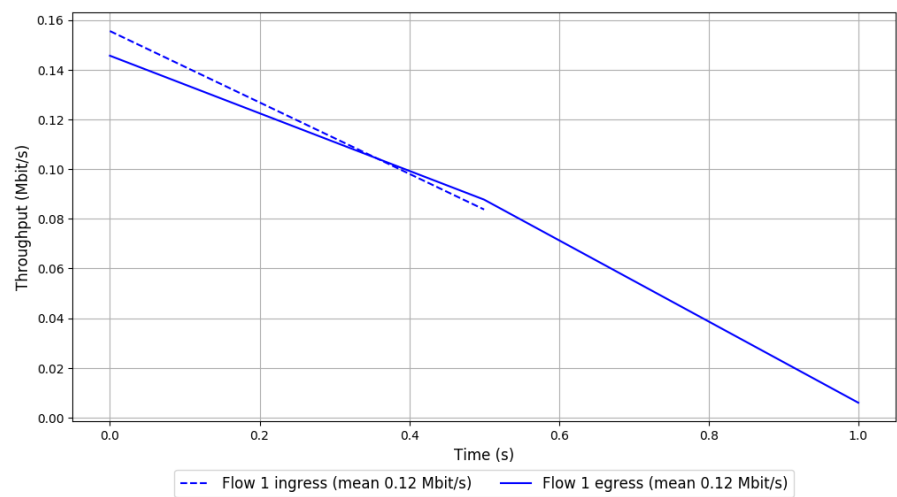


Run 9: Statistics of Copa

Start at: 2017-10-11 05:56:14

End at: 2017-10-11 05:56:44

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-10-11 06:07:55

End at: 2017-10-11 06:08:25

Below is generated by plot.py at 2017-10-11 08:42:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.44 Mbit/s

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

Loss rate: 1.24%

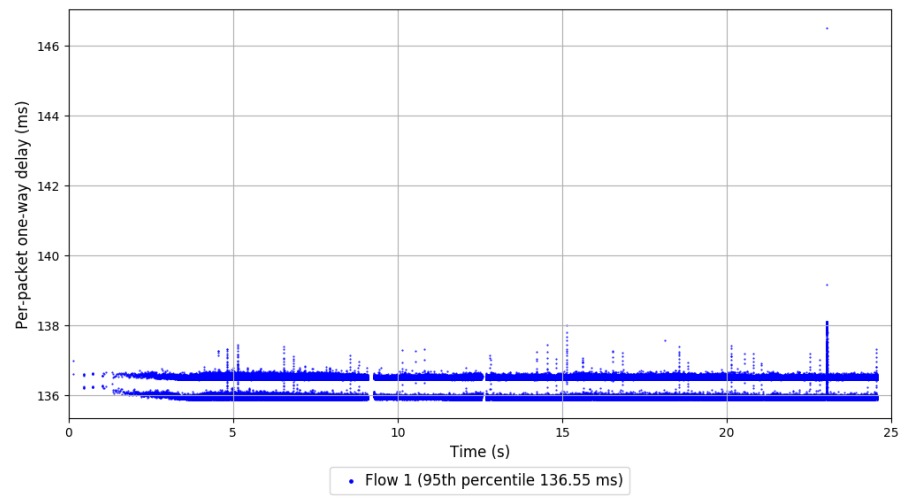
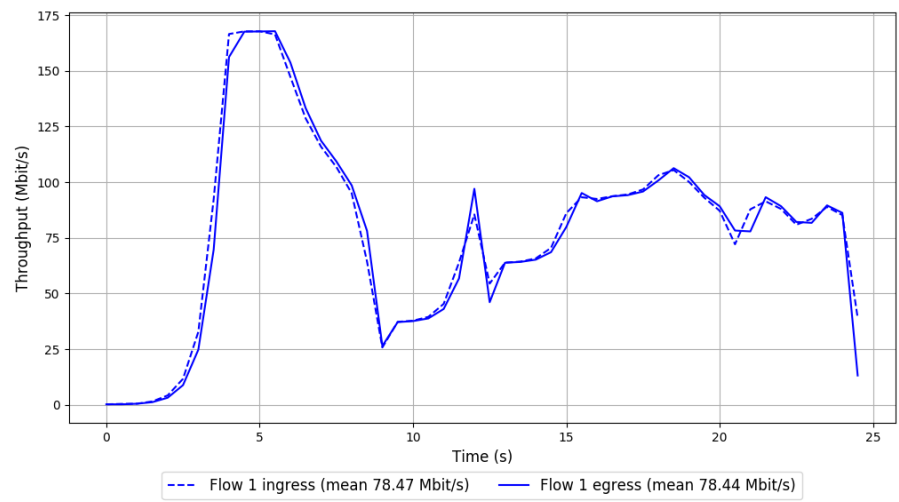
-- Flow 1:

Average throughput: 78.44 Mbit/s

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

Loss rate: 1.24%

Run 10: Report of Copa — Data Link

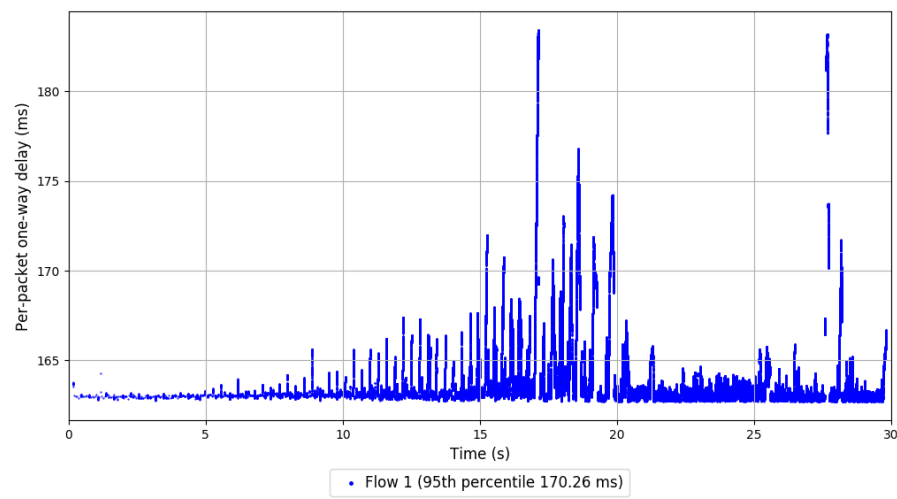
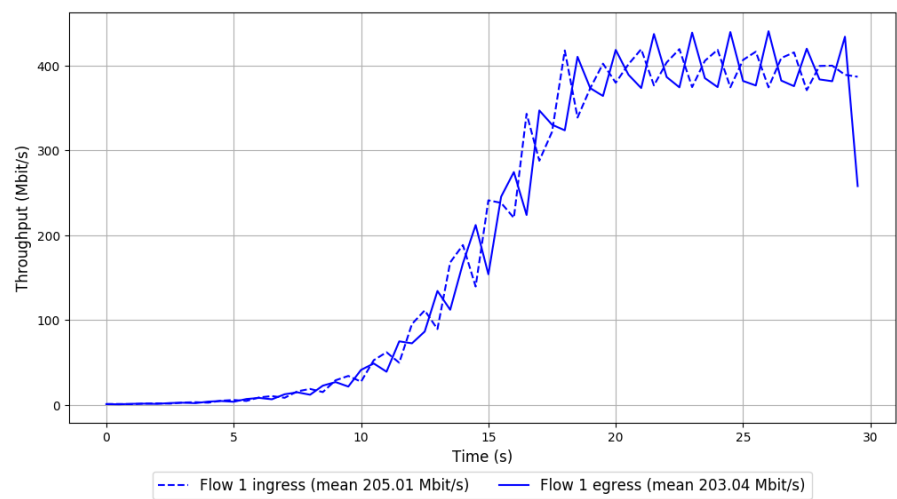


```
Run 1: Statistics of CalibratedKoho

Start at: 2017-10-11 04:26:35
End at: 2017-10-11 04:27:05

# Below is generated by plot.py at 2017-10-11 08:44:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 203.04 Mbit/s
95th percentile per-packet one-way delay: 170.265 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 203.04 Mbit/s
95th percentile per-packet one-way delay: 170.265 ms
Loss rate: 1.95%
```


Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: 2017-10-11 04:38:50

End at: 2017-10-11 04:39:20

Below is generated by plot.py at 2017-10-11 08:44:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.12 Mbit/s

95th percentile per-packet one-way delay: 170.837 ms

Loss rate: 1.97%

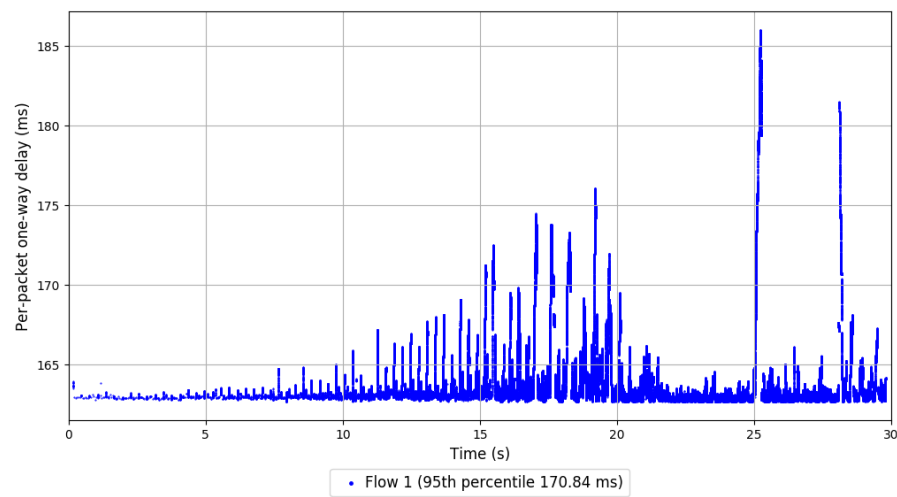
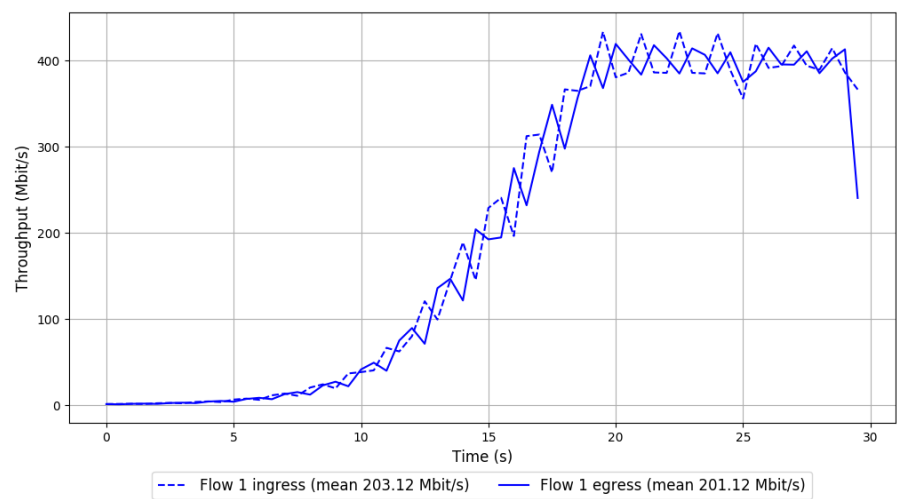
-- Flow 1:

Average throughput: 201.12 Mbit/s

95th percentile per-packet one-way delay: 170.837 ms

Loss rate: 1.97%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: 2017-10-11 04:51:07

End at: 2017-10-11 04:51:37

Below is generated by plot.py at 2017-10-11 08:45:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.71 Mbit/s

95th percentile per-packet one-way delay: 169.238 ms

Loss rate: 1.98%

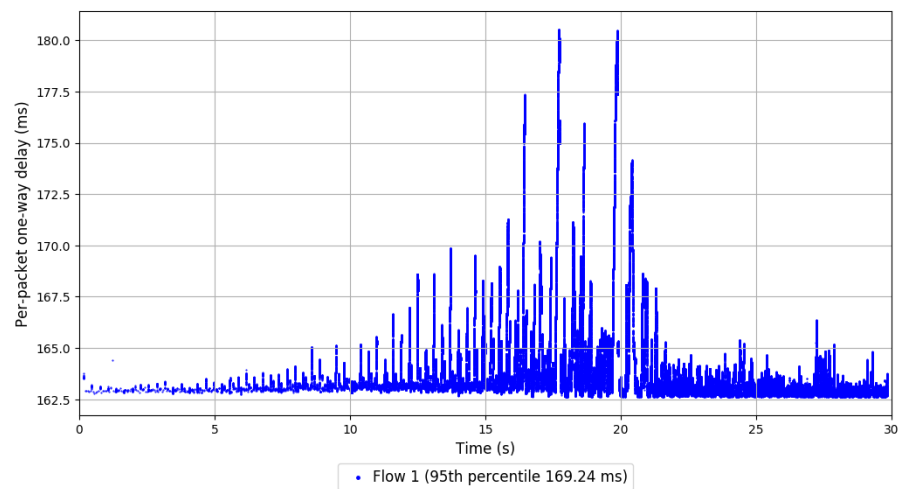
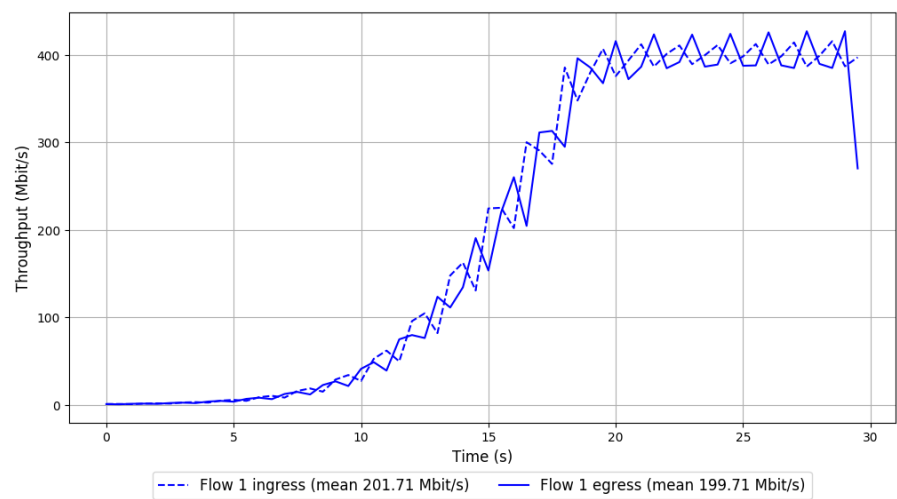
-- Flow 1:

Average throughput: 199.71 Mbit/s

95th percentile per-packet one-way delay: 169.238 ms

Loss rate: 1.98%

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: 2017-10-11 05:02:43

End at: 2017-10-11 05:03:13

Below is generated by plot.py at 2017-10-11 08:45:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.43 Mbit/s

95th percentile per-packet one-way delay: 170.654 ms

Loss rate: 2.02%

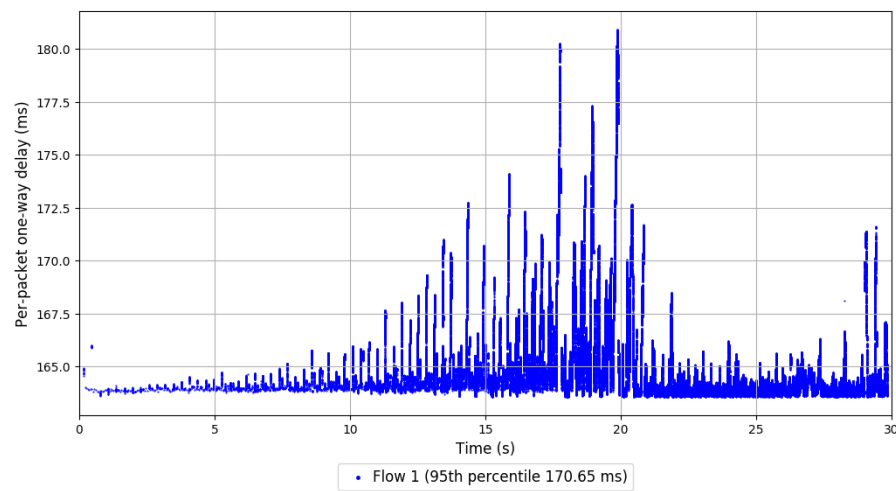
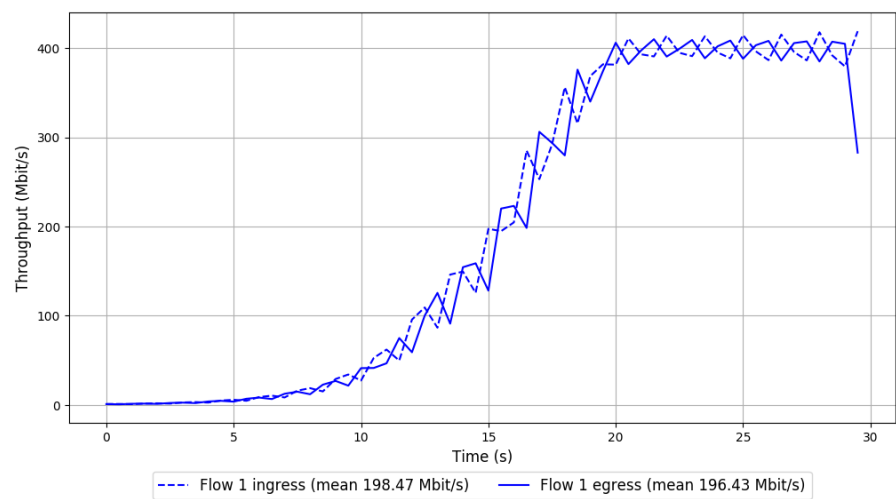
-- Flow 1:

Average throughput: 196.43 Mbit/s

95th percentile per-packet one-way delay: 170.654 ms

Loss rate: 2.02%

Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

Start at: 2017-10-11 05:14:06

End at: 2017-10-11 05:14:36

Below is generated by plot.py at 2017-10-11 08:45:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.53 Mbit/s

95th percentile per-packet one-way delay: 173.220 ms

Loss rate: 2.04%

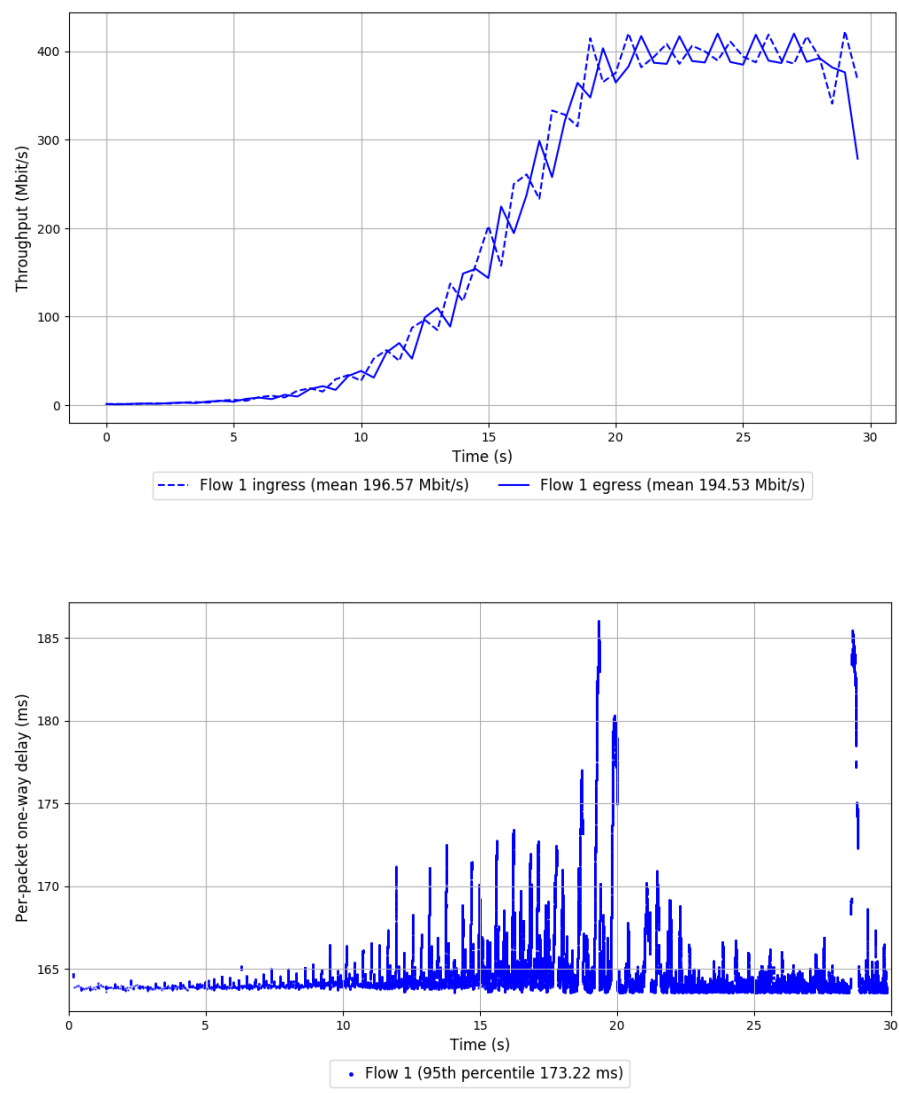
-- Flow 1:

Average throughput: 194.53 Mbit/s

95th percentile per-packet one-way delay: 173.220 ms

Loss rate: 2.04%

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: 2017-10-11 05:26:08

End at: 2017-10-11 05:26:38

Below is generated by plot.py at 2017-10-11 08:45:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.47 Mbit/s

95th percentile per-packet one-way delay: 170.957 ms

Loss rate: 2.08%

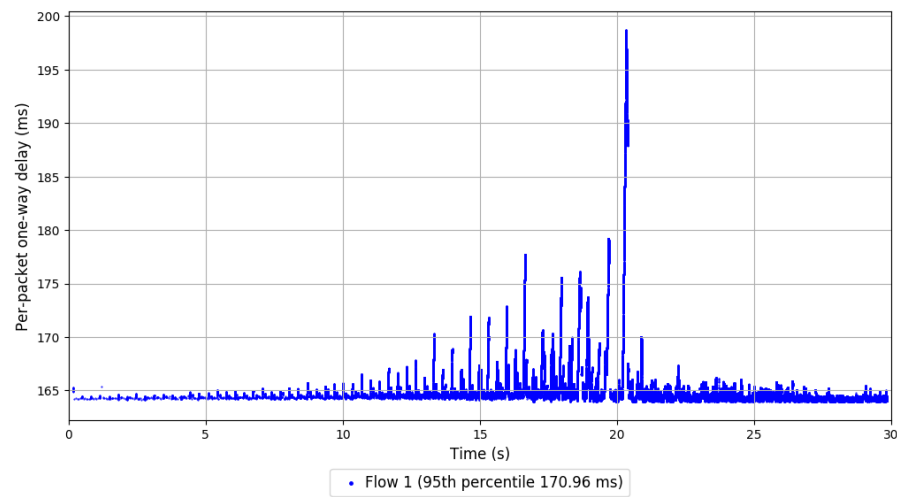
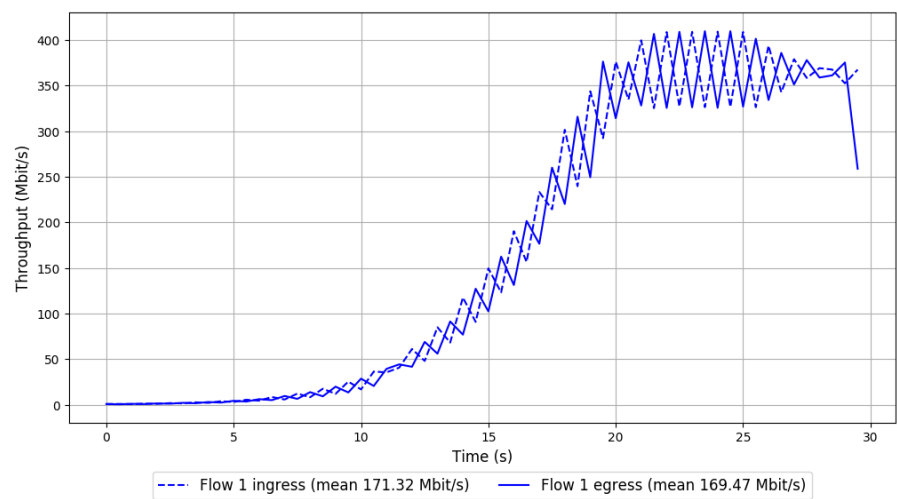
-- Flow 1:

Average throughput: 169.47 Mbit/s

95th percentile per-packet one-way delay: 170.957 ms

Loss rate: 2.08%

Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

Start at: 2017-10-11 05:37:19

End at: 2017-10-11 05:37:49

Below is generated by plot.py at 2017-10-11 08:45:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.56 Mbit/s

95th percentile per-packet one-way delay: 171.846 ms

Loss rate: 2.09%

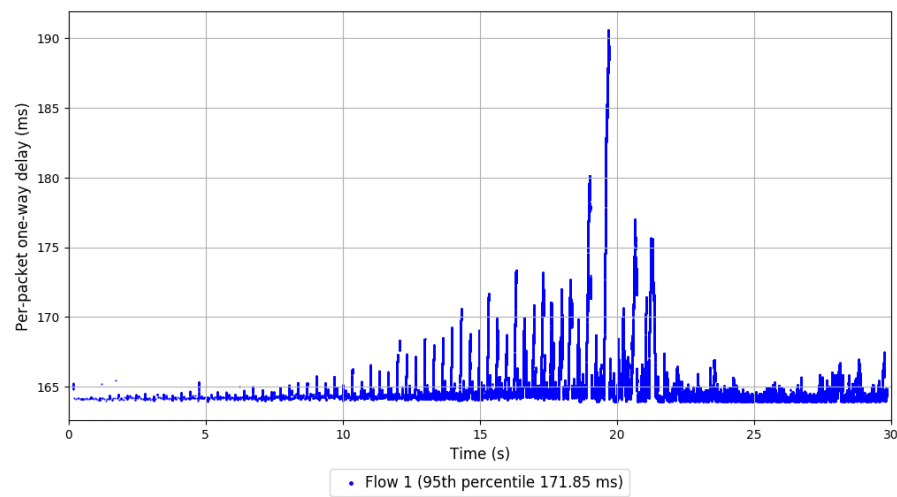
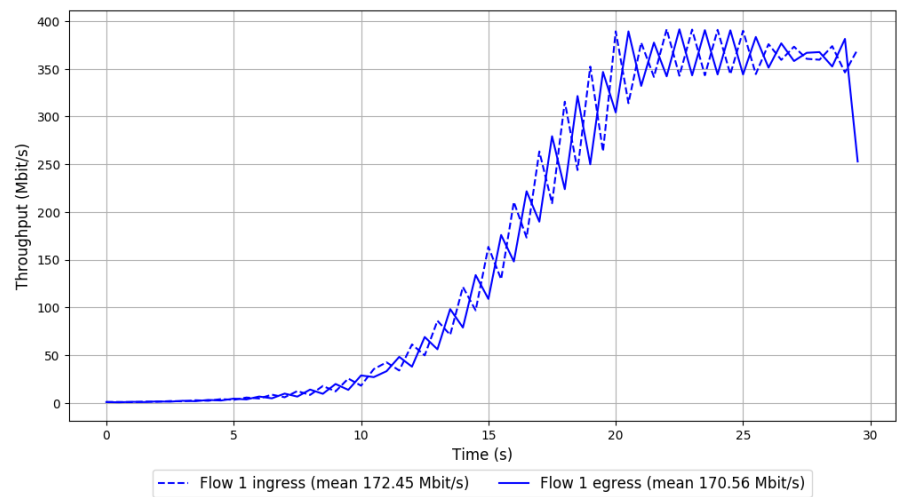
-- Flow 1:

Average throughput: 170.56 Mbit/s

95th percentile per-packet one-way delay: 171.846 ms

Loss rate: 2.09%

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: 2017-10-11 05:48:54

End at: 2017-10-11 05:49:24

Below is generated by plot.py at 2017-10-11 08:46:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.30 Mbit/s

95th percentile per-packet one-way delay: 171.614 ms

Loss rate: 1.98%

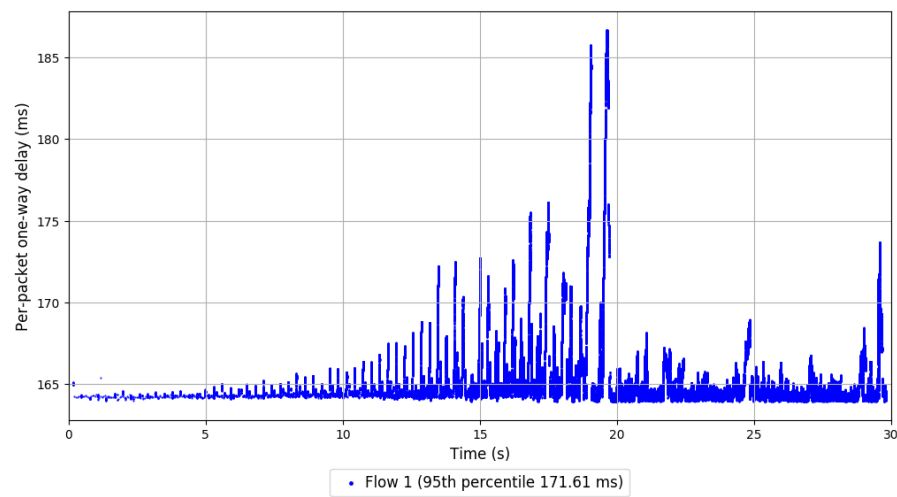
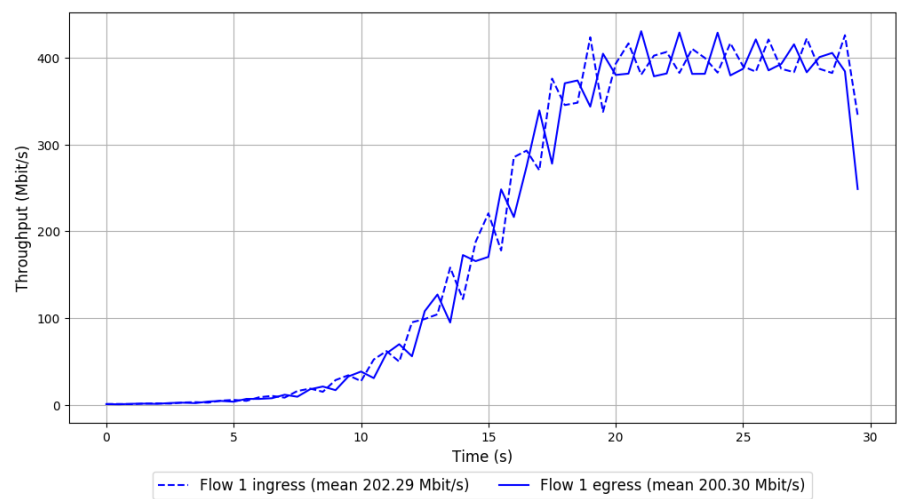
-- Flow 1:

Average throughput: 200.30 Mbit/s

95th percentile per-packet one-way delay: 171.614 ms

Loss rate: 1.98%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: 2017-10-11 06:00:34

End at: 2017-10-11 06:01:04

Below is generated by plot.py at 2017-10-11 08:48:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.19 Mbit/s

95th percentile per-packet one-way delay: 142.538 ms

Loss rate: 1.65%

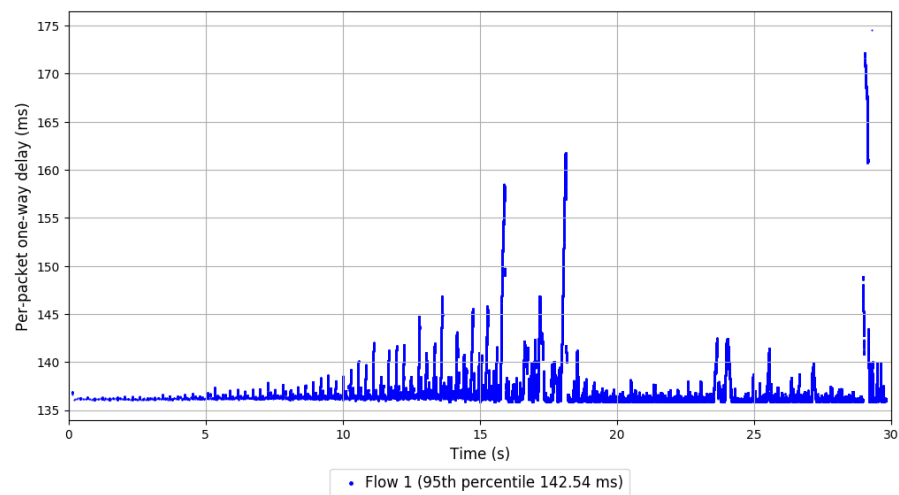
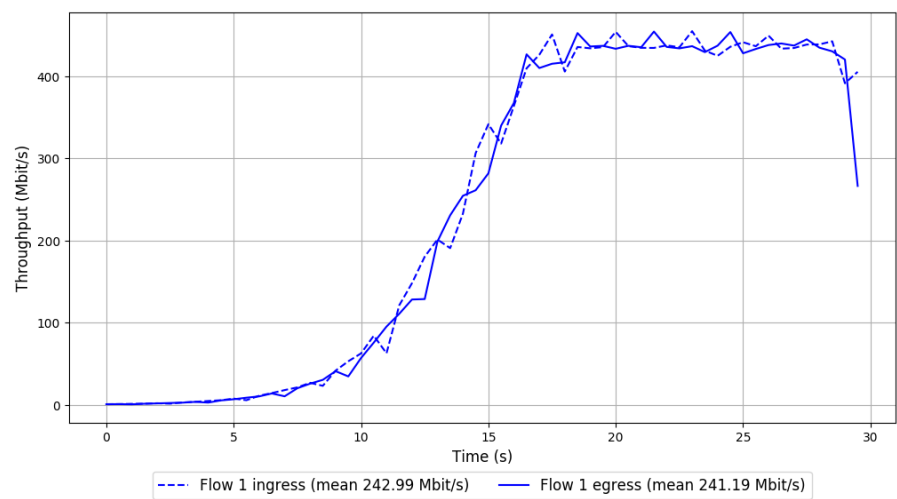
-- Flow 1:

Average throughput: 241.19 Mbit/s

95th percentile per-packet one-way delay: 142.538 ms

Loss rate: 1.65%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: 2017-10-11 06:12:40

End at: 2017-10-11 06:13:10

Below is generated by plot.py at 2017-10-11 08:48:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 240.49 Mbit/s

95th percentile per-packet one-way delay: 142.333 ms

Loss rate: 1.65%

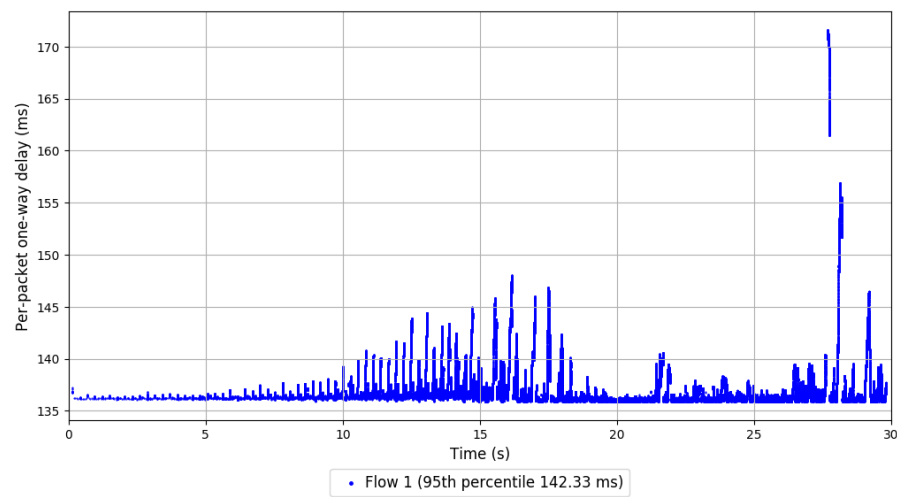
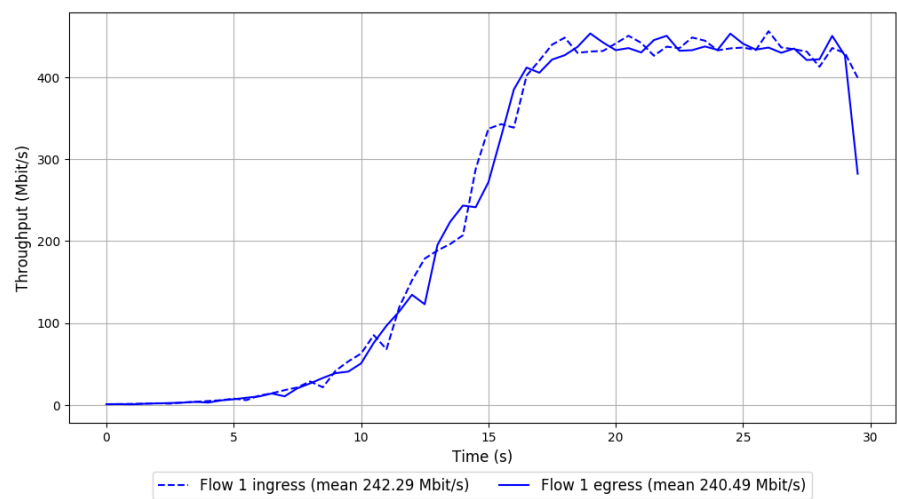
-- Flow 1:

Average throughput: 240.49 Mbit/s

95th percentile per-packet one-way delay: 142.333 ms

Loss rate: 1.65%

Run 10: Report of CalibratedKoho — Data Link

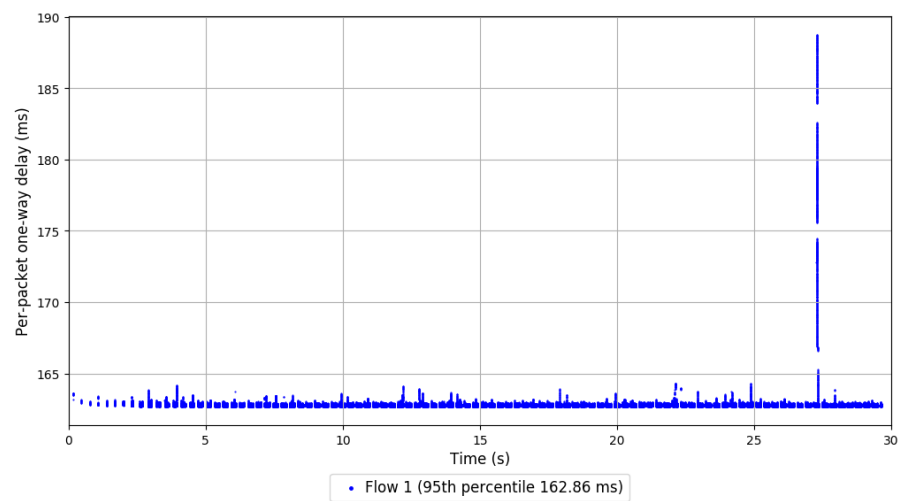
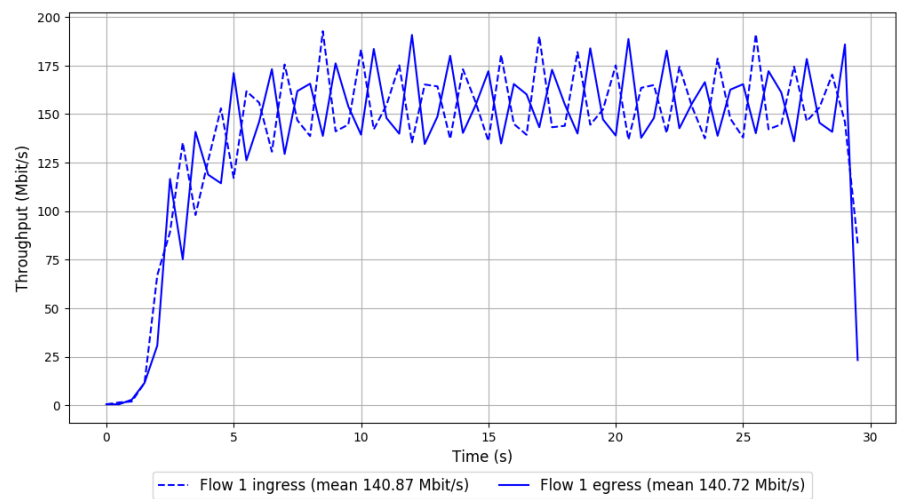


```
Run 1: Statistics of Indigo

Start at: 2017-10-11 04:25:39
End at: 2017-10-11 04:26:09

# Below is generated by plot.py at 2017-10-11 08:48:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 140.72 Mbit/s
95th percentile per-packet one-way delay: 162.857 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 140.72 Mbit/s
95th percentile per-packet one-way delay: 162.857 ms
Loss rate: 1.13%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-10-11 04:37:54

End at: 2017-10-11 04:38:24

Below is generated by plot.py at 2017-10-11 08:48:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 140.48 Mbit/s

95th percentile per-packet one-way delay: 162.837 ms

Loss rate: 1.12%

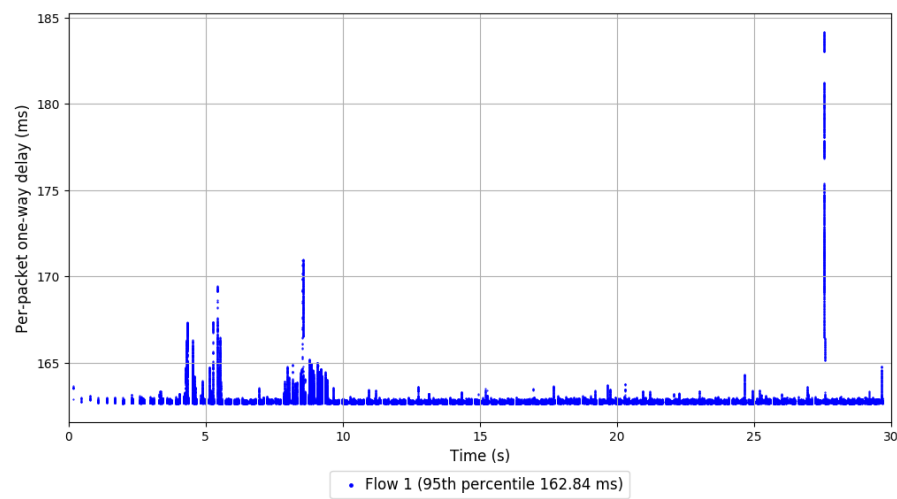
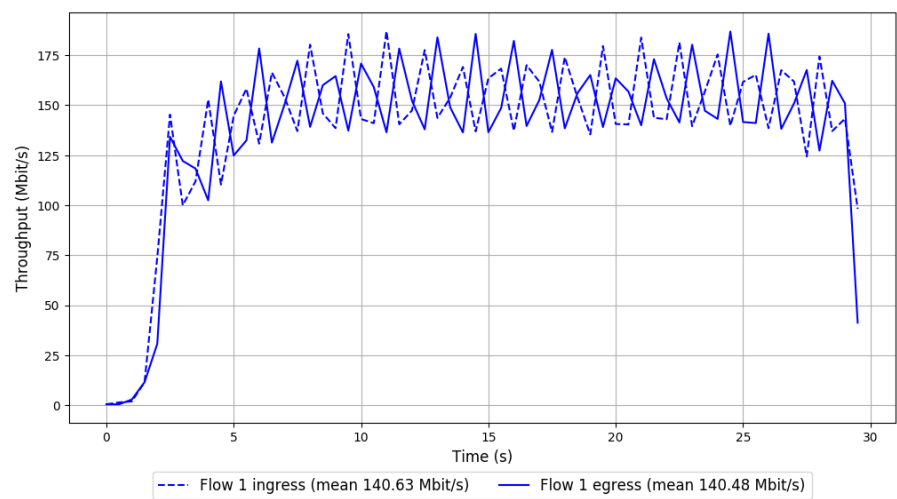
-- Flow 1:

Average throughput: 140.48 Mbit/s

95th percentile per-packet one-way delay: 162.837 ms

Loss rate: 1.12%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-10-11 04:50:12

End at: 2017-10-11 04:50:42

Below is generated by plot.py at 2017-10-11 08:48:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.45 Mbit/s

95th percentile per-packet one-way delay: 162.804 ms

Loss rate: 1.13%

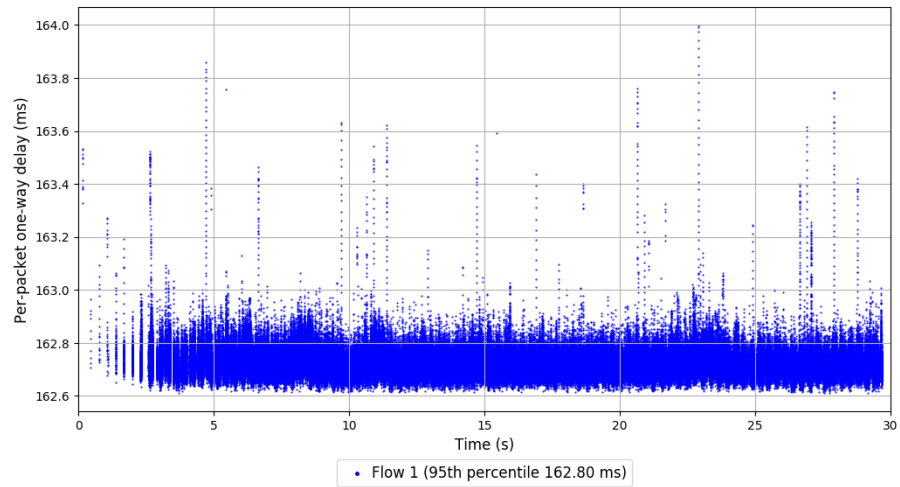
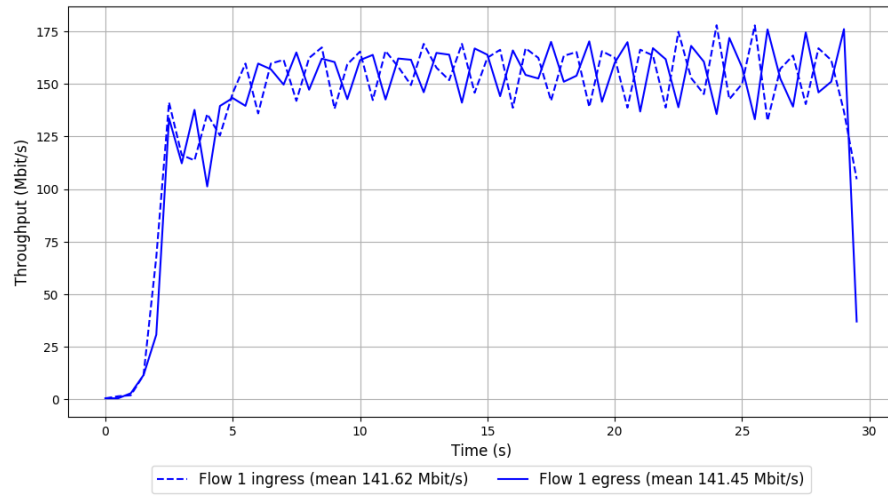
-- Flow 1:

Average throughput: 141.45 Mbit/s

95th percentile per-packet one-way delay: 162.804 ms

Loss rate: 1.13%

Run 3: Report of Indigo — Data Link

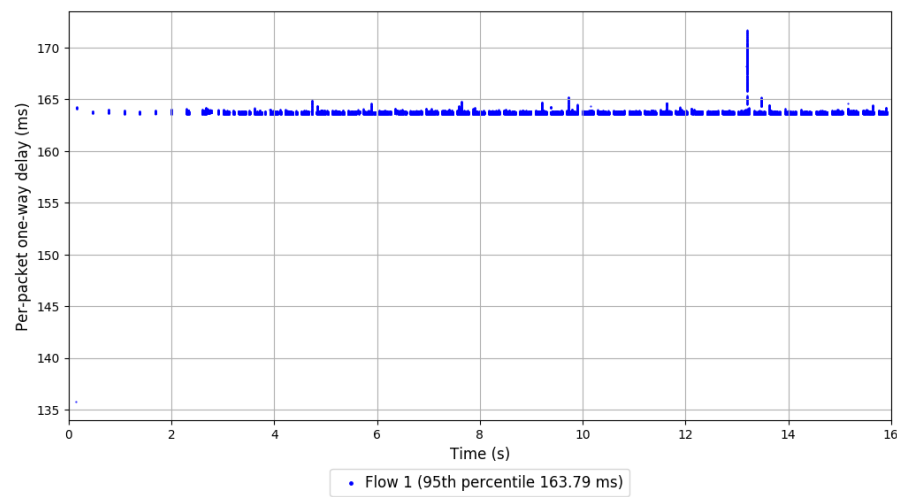
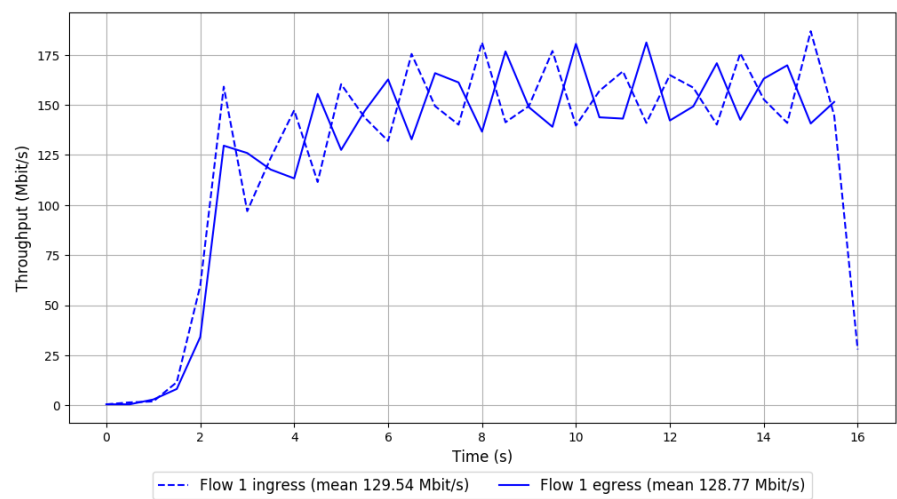


Run 4: Statistics of Indigo

Start at: 2017-10-11 05:01:54

End at: 2017-10-11 05:02:24

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

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

End at: 2017-10-11 05:13:41

Below is generated by plot.py at 2017-10-11 08:48:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.06 Mbit/s

95th percentile per-packet one-way delay: 163.763 ms

Loss rate: 1.12%

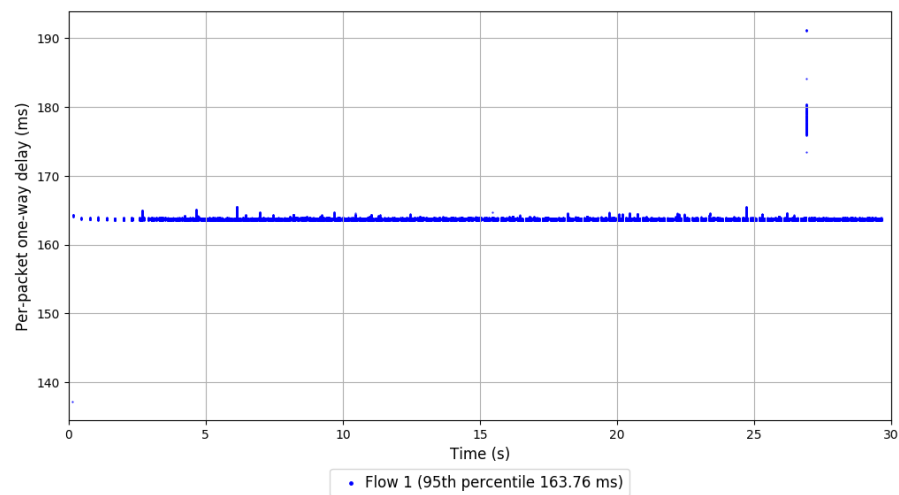
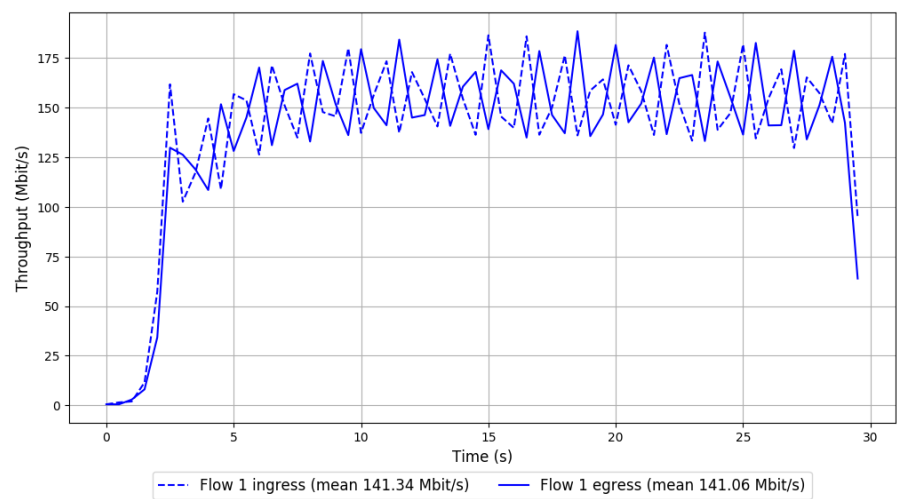
-- Flow 1:

Average throughput: 141.06 Mbit/s

95th percentile per-packet one-way delay: 163.763 ms

Loss rate: 1.12%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-10-11 05:25:14

End at: 2017-10-11 05:25:44

Below is generated by plot.py at 2017-10-11 08:48:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 133.53 Mbit/s

95th percentile per-packet one-way delay: 164.184 ms

Loss rate: 1.03%

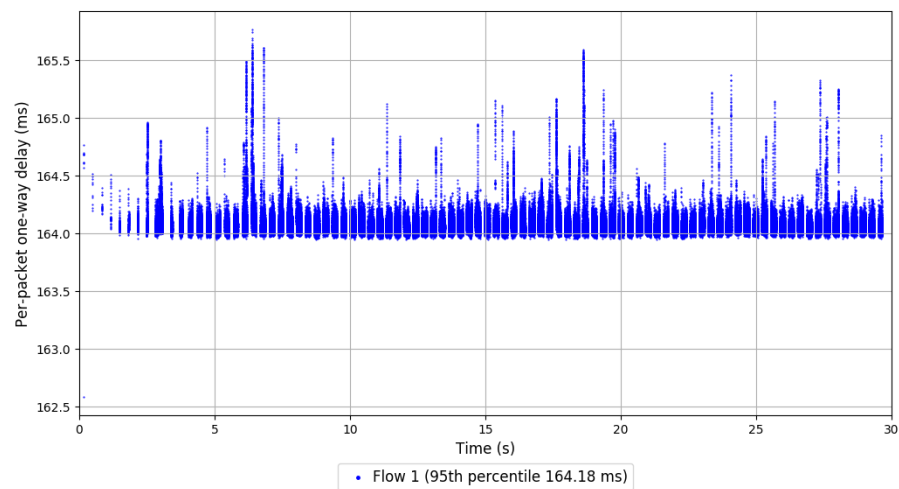
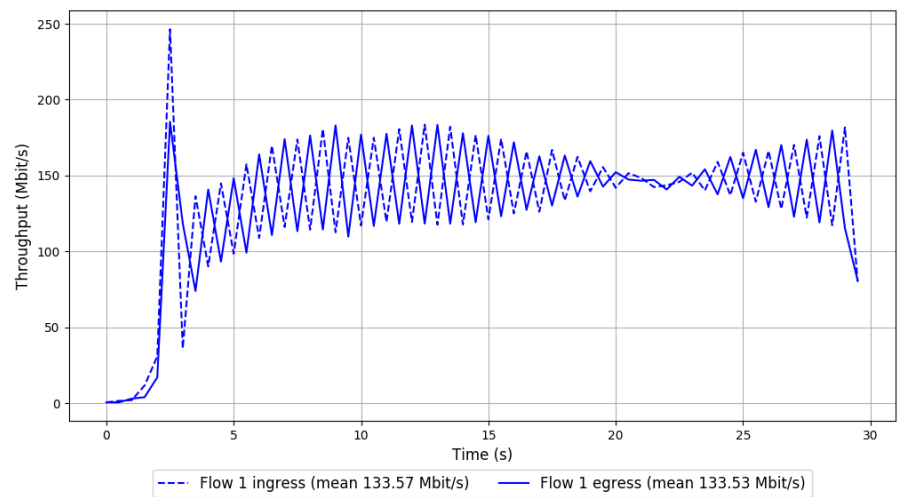
-- Flow 1:

Average throughput: 133.53 Mbit/s

95th percentile per-packet one-way delay: 164.184 ms

Loss rate: 1.03%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-10-11 05:36:24

End at: 2017-10-11 05:36:54

Below is generated by plot.py at 2017-10-11 08:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 140.86 Mbit/s

95th percentile per-packet one-way delay: 164.145 ms

Loss rate: 1.14%

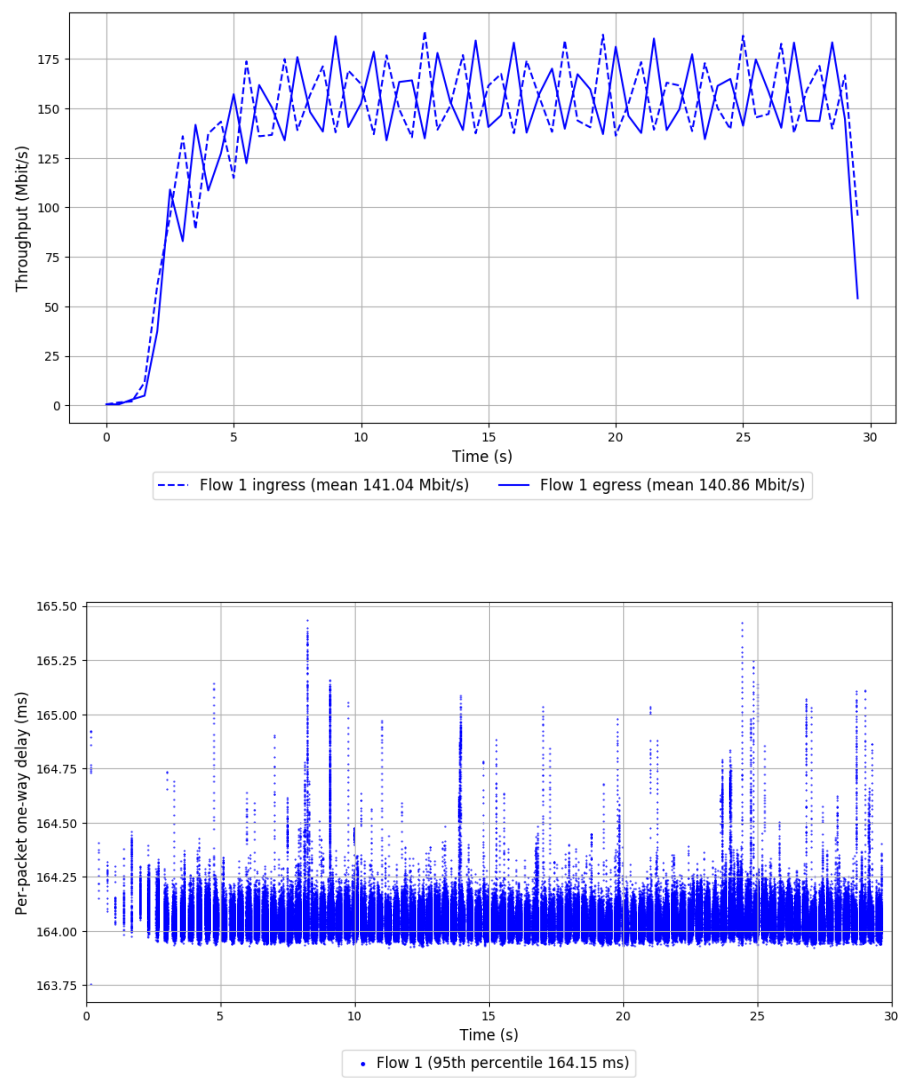
-- Flow 1:

Average throughput: 140.86 Mbit/s

95th percentile per-packet one-way delay: 164.145 ms

Loss rate: 1.14%

Run 7: Report of Indigo — Data Link

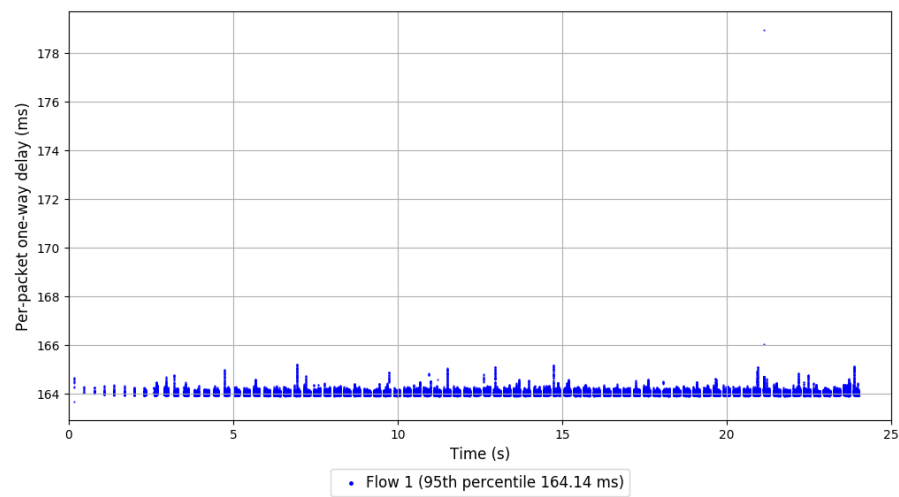
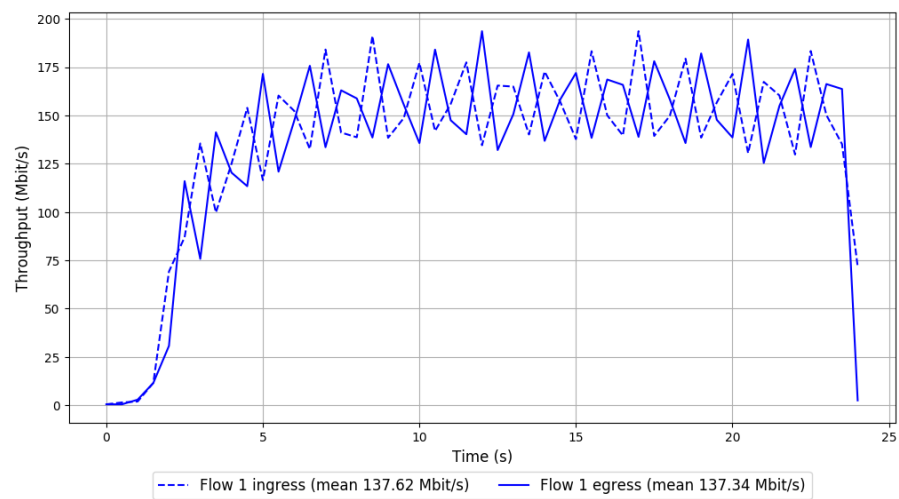


Run 8: Statistics of Indigo

Start at: 2017-10-11 05:48:00

End at: 2017-10-11 05:48:30

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-10-11 05:59:37

End at: 2017-10-11 06:00:07

Below is generated by plot.py at 2017-10-11 08:48:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.87 Mbit/s

95th percentile per-packet one-way delay: 136.024 ms

Loss rate: 1.02%

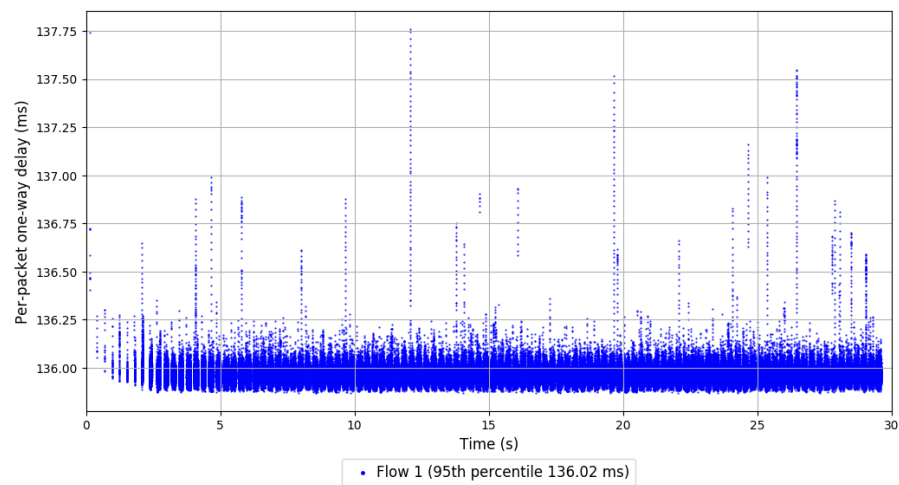
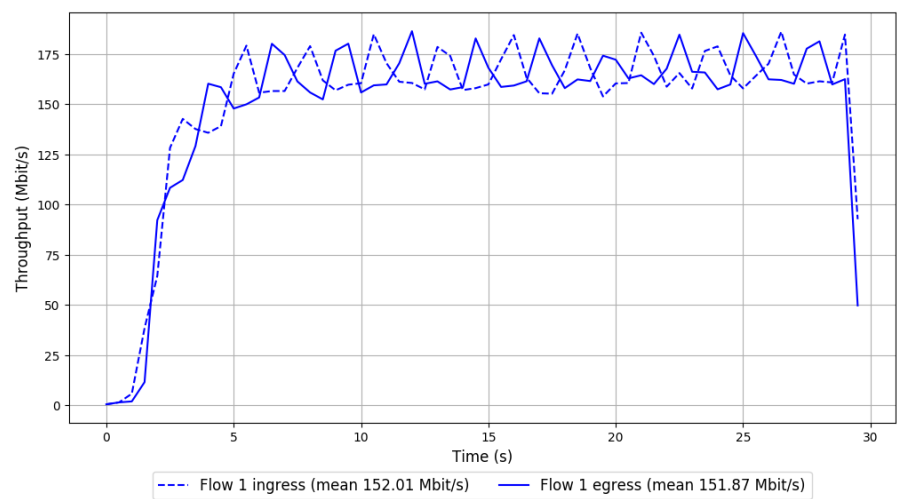
-- Flow 1:

Average throughput: 151.87 Mbit/s

95th percentile per-packet one-way delay: 136.024 ms

Loss rate: 1.02%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

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

End at: 2017-10-11 06:12:14

Below is generated by plot.py at 2017-10-11 08:48:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.55 Mbit/s

95th percentile per-packet one-way delay: 136.025 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 158.55 Mbit/s

95th percentile per-packet one-way delay: 136.025 ms

Loss rate: 1.00%

Run 10: Report of Indigo — Data Link

