

Pantheon Report

Generated at 2017-09-22 00:51:08 (UTC).

Data path: GCE Iowa Ethernet (*local*) → GCE Tokyo Ethernet (*remote*).

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

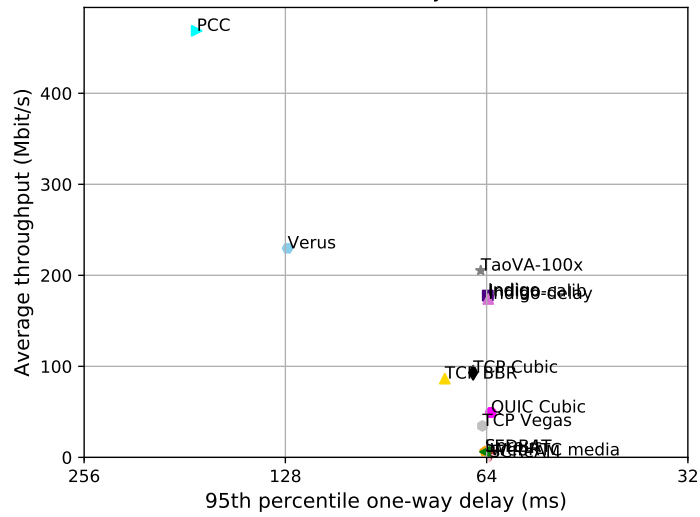
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

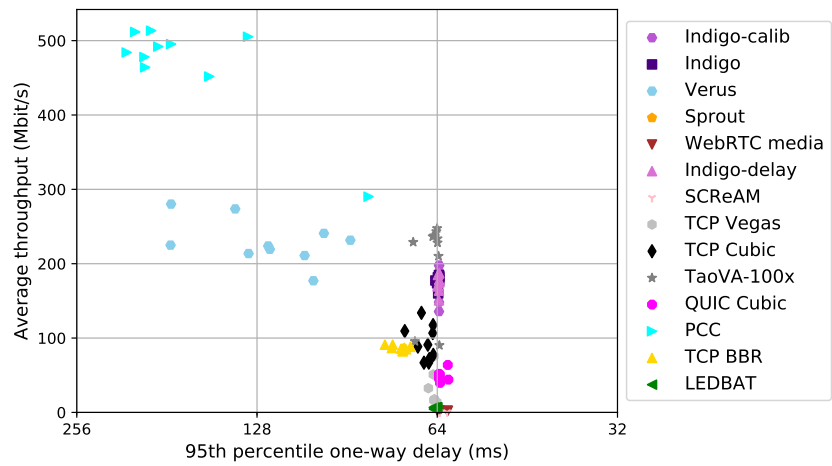
Git summary:

```
branch: indigos @ 46c7c812d4acb71eea4f5fb0b03b3657cea3062f
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 @ f1a14bffe749737437f61b1eaeeb30b267cde681
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 Iowa Ethernet to GCE Tokyo Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE Iowa Ethernet to GCE Tokyo 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	86.50	73.92	0.04
TCP Cubic	10	92.99	67.04	0.07
LEDBAT	9	6.04	64.38	0.32
PCC	10	468.59	173.71	0.83
QUIC Cubic	10	49.28	63.07	0.00
SCReAM	10	0.22	63.38	0.00
WebRTC media	10	2.20	63.19	0.01
Sprout	10	6.44	64.37	0.09
TaoVA-100x	10	205.18	65.32	0.01
TCP Vegas	6	34.51	64.95	0.04
Verus	10	229.62	127.05	0.06
Indigo	10	177.76	63.75	0.03
Indigo-calib	10	176.85	63.58	0.00
Indigo-delay	9	174.03	63.64	0.00

Run 1: Statistics of TCP BBR

Start at: 2017-09-21 21:33:37

End at: 2017-09-21 21:34:07

Below is generated by plot.py at 2017-09-22 00:06:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.82 Mbit/s

95th percentile per-packet one-way delay: 73.272 ms

Loss rate: 0.00%

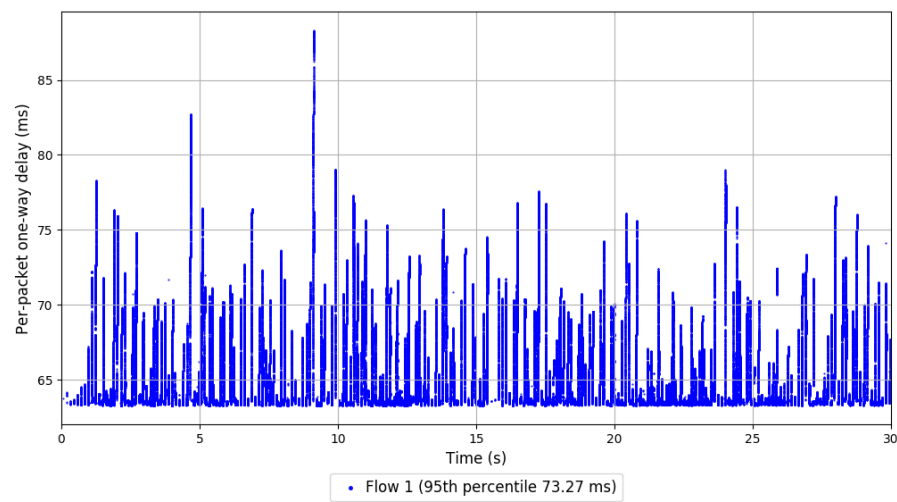
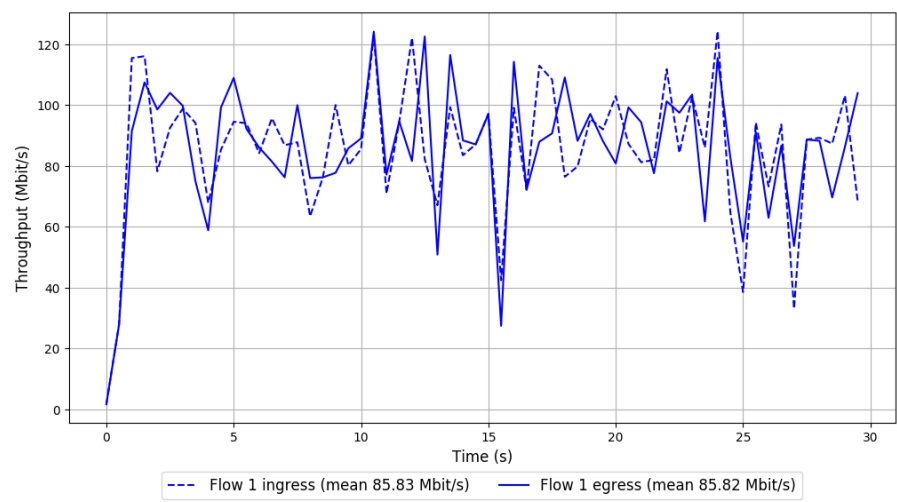
-- Flow 1:

Average throughput: 85.82 Mbit/s

95th percentile per-packet one-way delay: 73.272 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-09-21 21:44:21

End at: 2017-09-21 21:44:51

Below is generated by plot.py at 2017-09-22 00:06:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.31 Mbit/s

95th percentile per-packet one-way delay: 70.941 ms

Loss rate: 0.00%

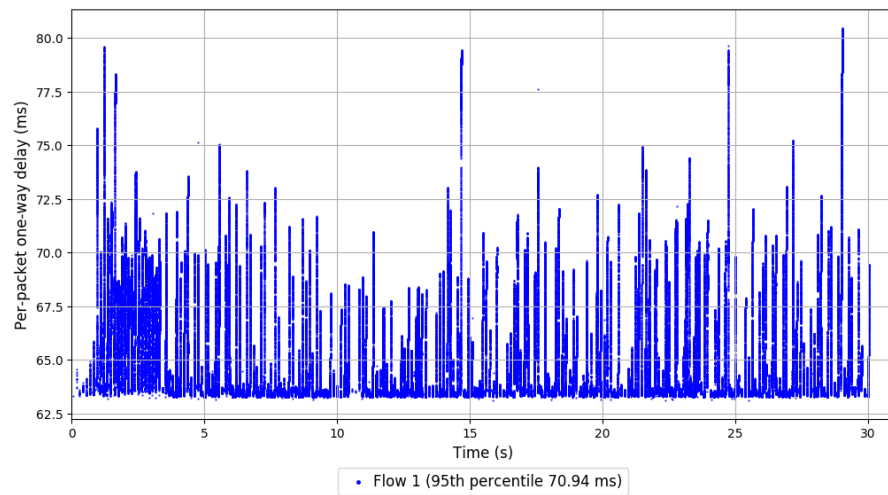
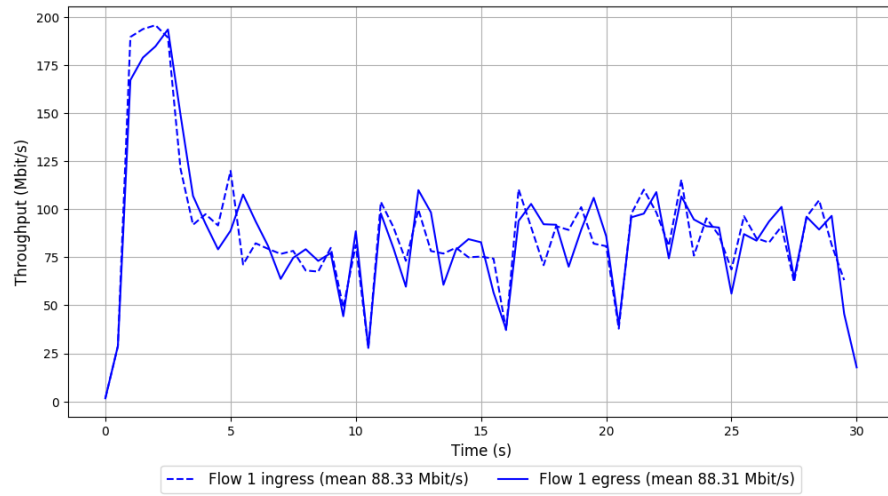
-- Flow 1:

Average throughput: 88.31 Mbit/s

95th percentile per-packet one-way delay: 70.941 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-09-21 21:55:01

End at: 2017-09-21 21:55:31

Below is generated by plot.py at 2017-09-22 00:06:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.06 Mbit/s

95th percentile per-packet one-way delay: 78.271 ms

Loss rate: 0.01%

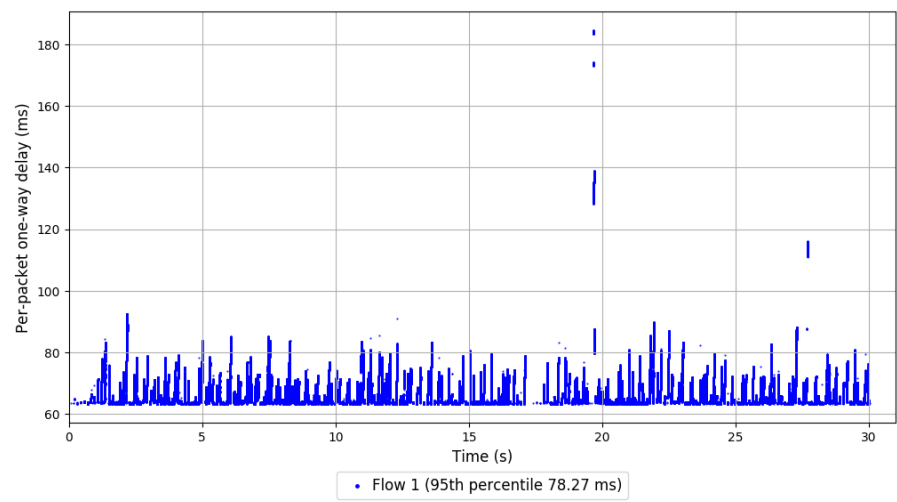
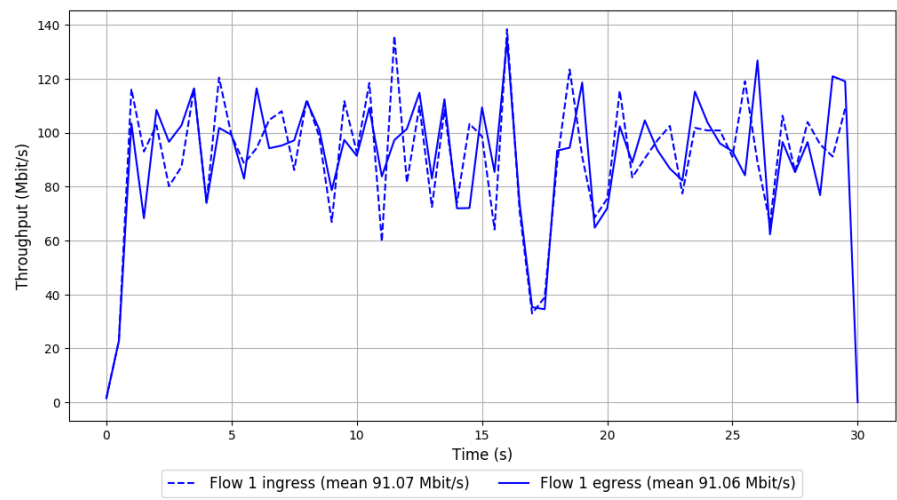
-- Flow 1:

Average throughput: 91.06 Mbit/s

95th percentile per-packet one-way delay: 78.271 ms

Loss rate: 0.01%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-09-21 22:05:28

End at: 2017-09-21 22:05:58

Below is generated by plot.py at 2017-09-22 00:06:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.11 Mbit/s

95th percentile per-packet one-way delay: 75.969 ms

Loss rate: 0.00%

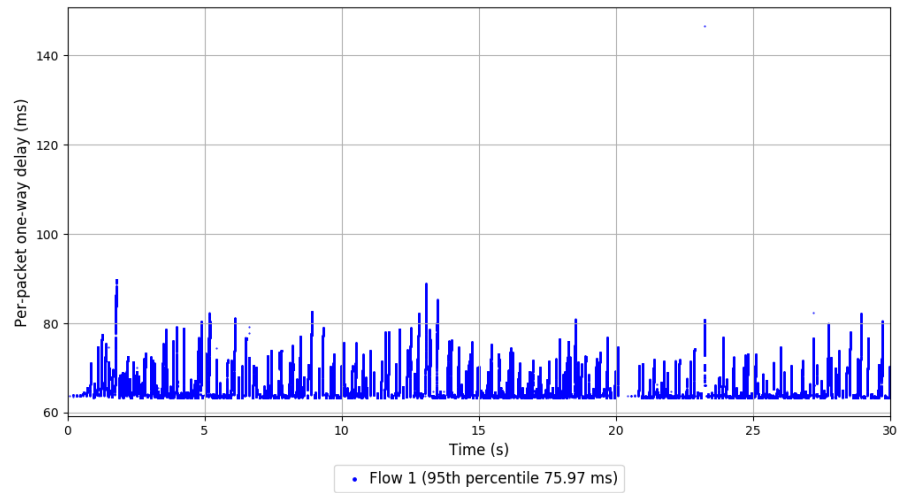
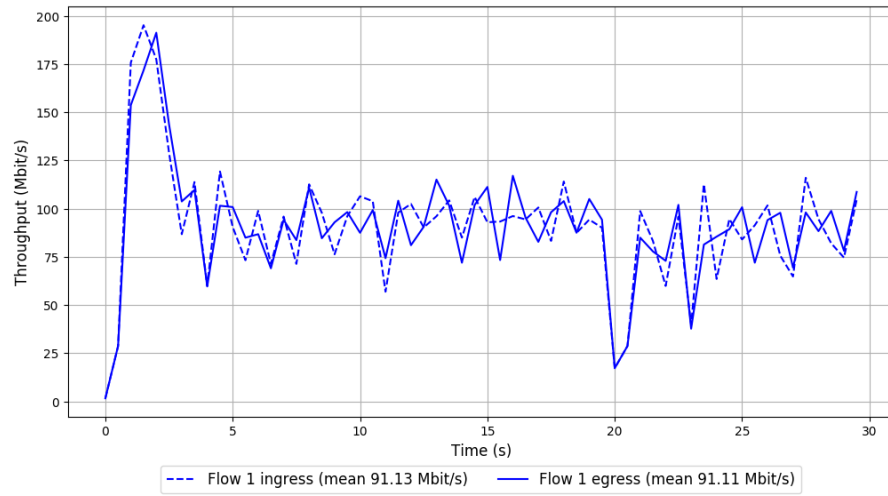
-- Flow 1:

Average throughput: 91.11 Mbit/s

95th percentile per-packet one-way delay: 75.969 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-09-21 22:16:10

End at: 2017-09-21 22:16:40

Below is generated by plot.py at 2017-09-22 00:06:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.91 Mbit/s

95th percentile per-packet one-way delay: 72.178 ms

Loss rate: 0.21%

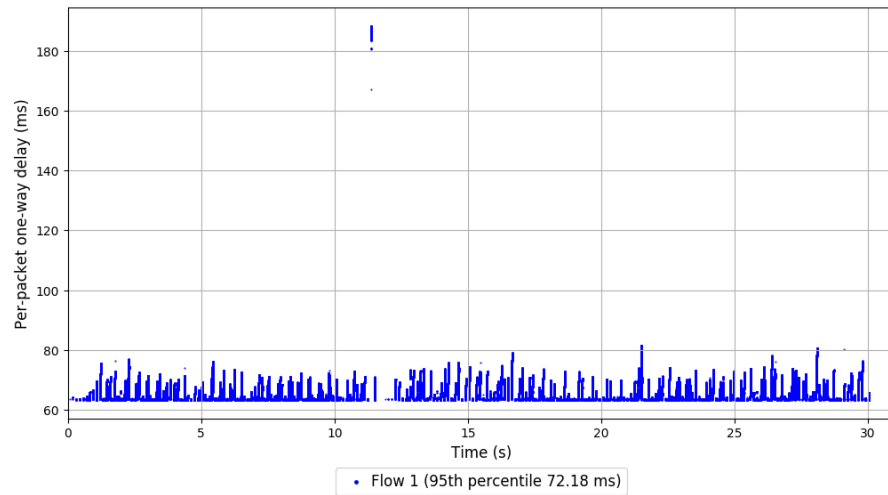
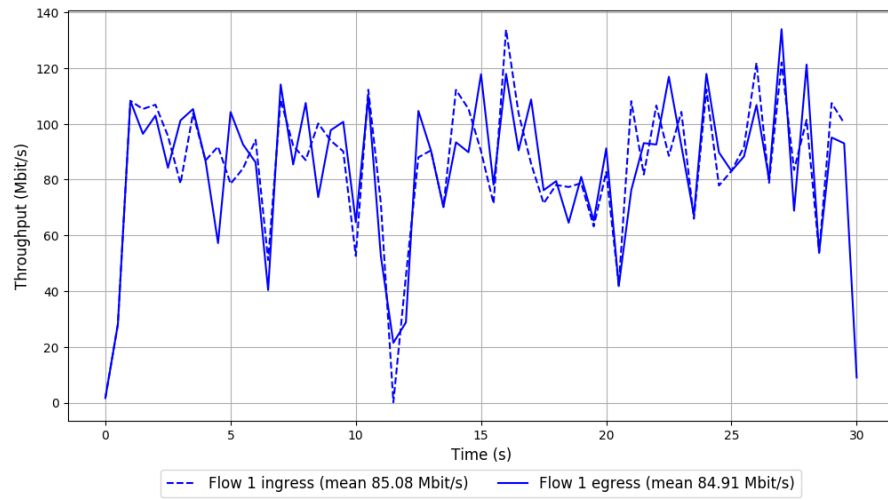
-- Flow 1:

Average throughput: 84.91 Mbit/s

95th percentile per-packet one-way delay: 72.178 ms

Loss rate: 0.21%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-09-21 22:26:56

End at: 2017-09-21 22:27:26

Below is generated by plot.py at 2017-09-22 00:06:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.66 Mbit/s

95th percentile per-packet one-way delay: 73.039 ms

Loss rate: 0.00%

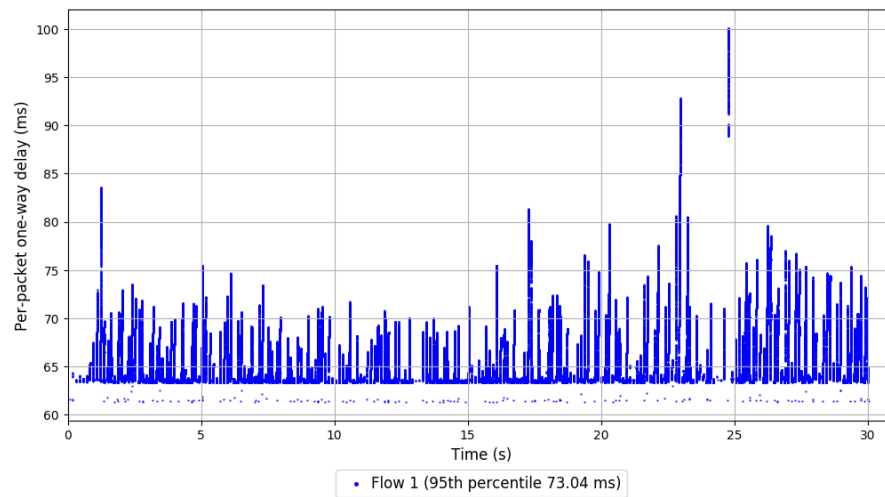
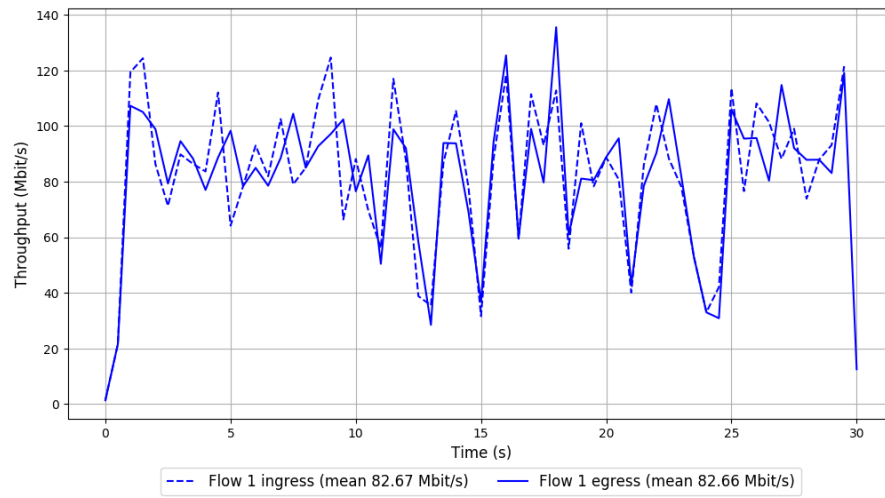
-- Flow 1:

Average throughput: 82.66 Mbit/s

95th percentile per-packet one-way delay: 73.039 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-09-21 22:37:29

End at: 2017-09-21 22:37:59

Below is generated by plot.py at 2017-09-22 00:06:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.11 Mbit/s

95th percentile per-packet one-way delay: 73.117 ms

Loss rate: 0.01%

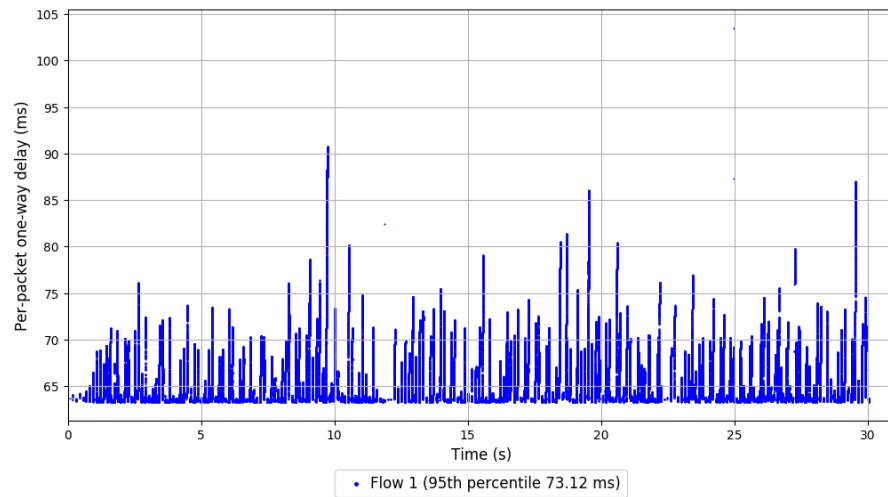
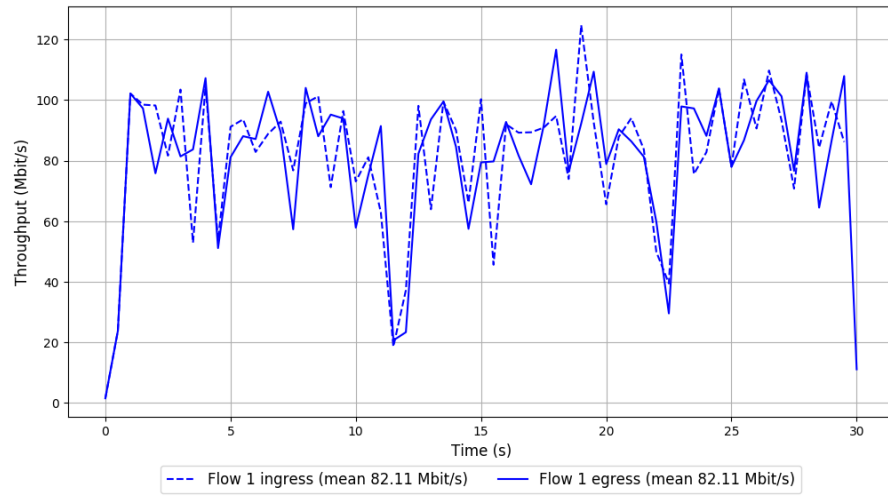
-- Flow 1:

Average throughput: 82.11 Mbit/s

95th percentile per-packet one-way delay: 73.117 ms

Loss rate: 0.01%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-09-21 22:48:09

End at: 2017-09-21 22:48:39

Below is generated by plot.py at 2017-09-22 00:06:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.48 Mbit/s

95th percentile per-packet one-way delay: 73.554 ms

Loss rate: 0.00%

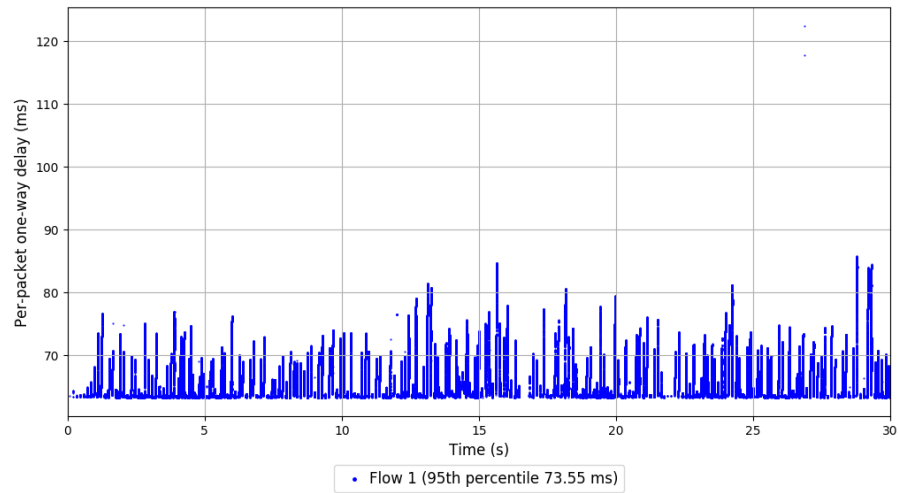
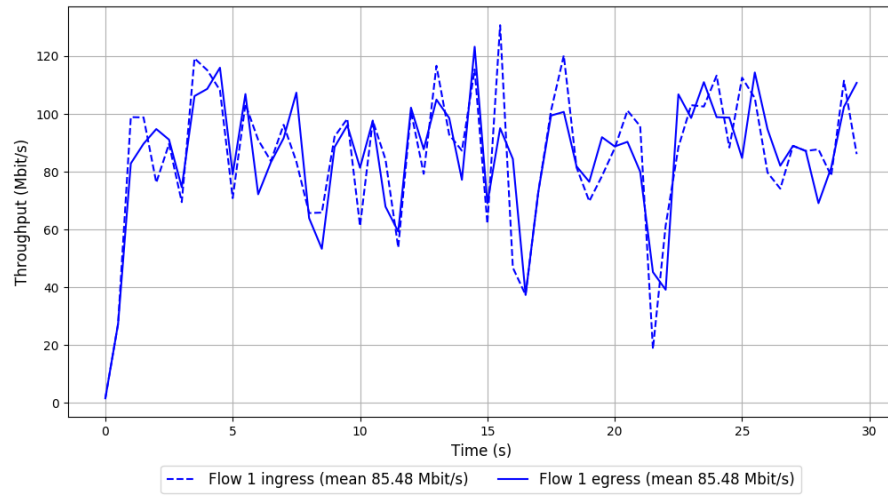
-- Flow 1:

Average throughput: 85.48 Mbit/s

95th percentile per-packet one-way delay: 73.554 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-09-21 22:58:37

End at: 2017-09-21 22:59:07

Below is generated by plot.py at 2017-09-22 00:08:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.02 Mbit/s

95th percentile per-packet one-way delay: 72.645 ms

Loss rate: 0.00%

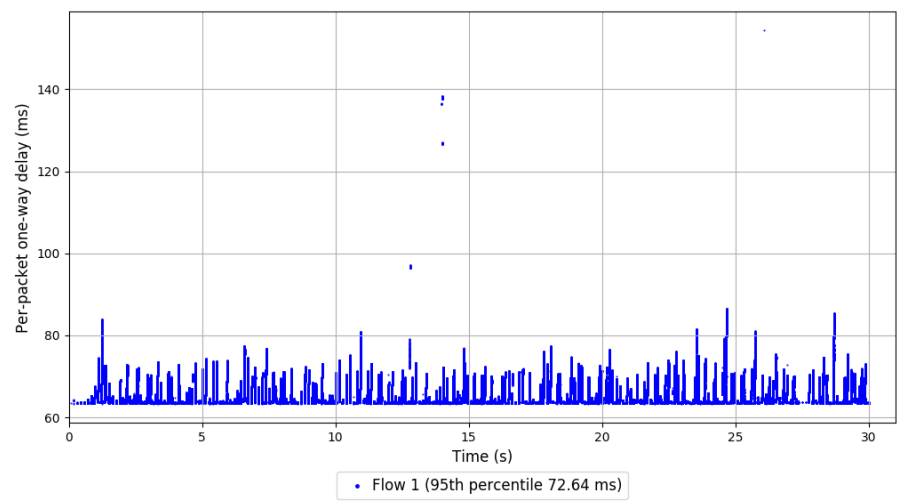
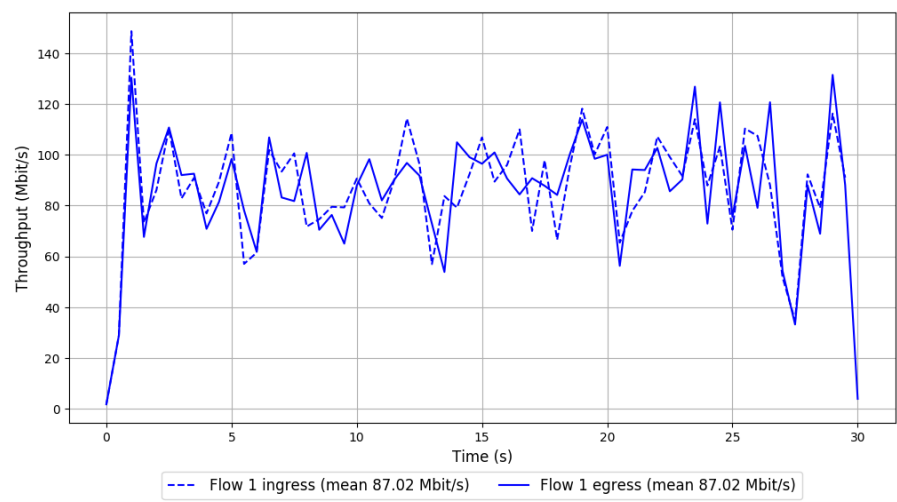
-- Flow 1:

Average throughput: 87.02 Mbit/s

95th percentile per-packet one-way delay: 72.645 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-09-21 23:09:16

End at: 2017-09-21 23:09:46

Below is generated by plot.py at 2017-09-22 00:08:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.56 Mbit/s

95th percentile per-packet one-way delay: 76.204 ms

Loss rate: 0.13%

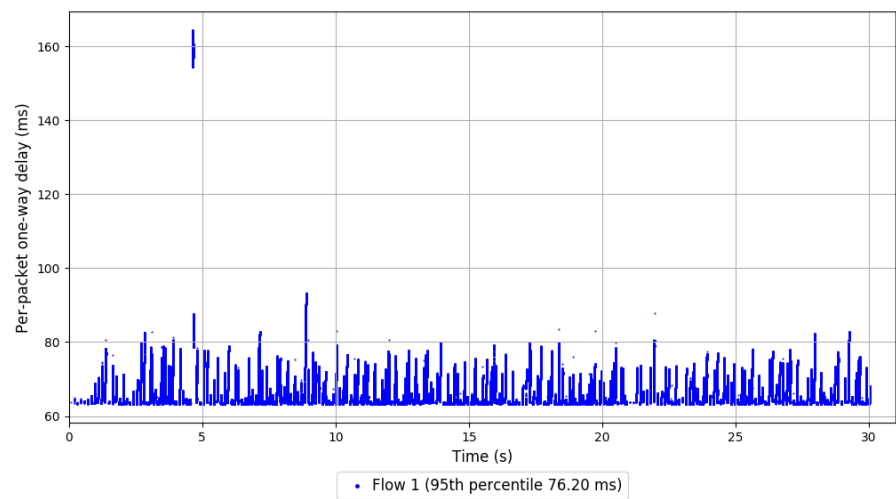
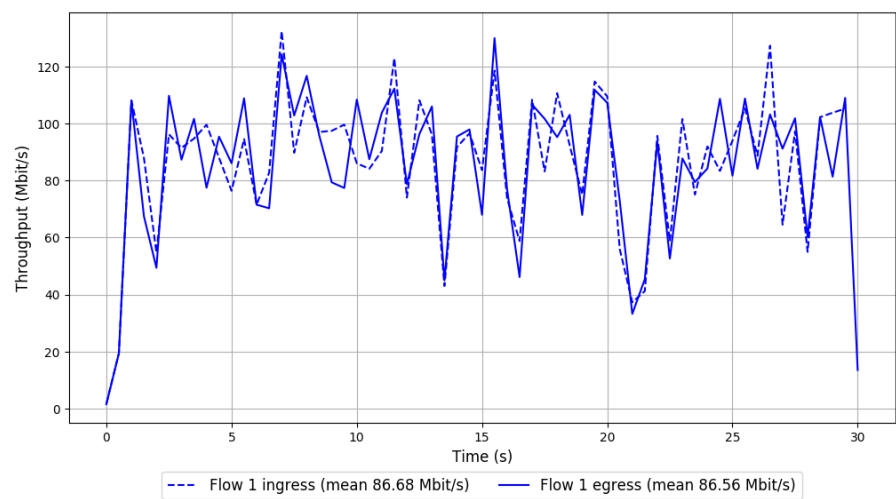
-- Flow 1:

Average throughput: 86.56 Mbit/s

95th percentile per-packet one-way delay: 76.204 ms

Loss rate: 0.13%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-09-21 21:26:47

End at: 2017-09-21 21:27:17

Below is generated by plot.py at 2017-09-22 00:09:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 133.91 Mbit/s

95th percentile per-packet one-way delay: 68.010 ms

Loss rate: 0.01%

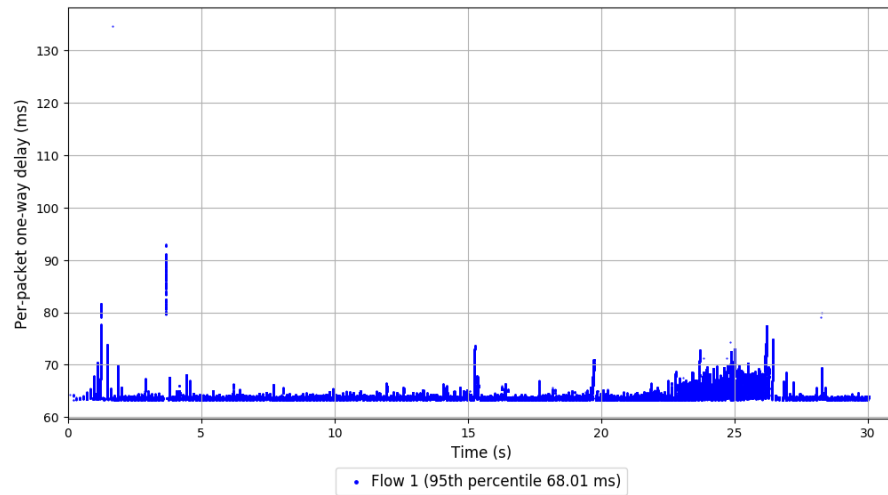
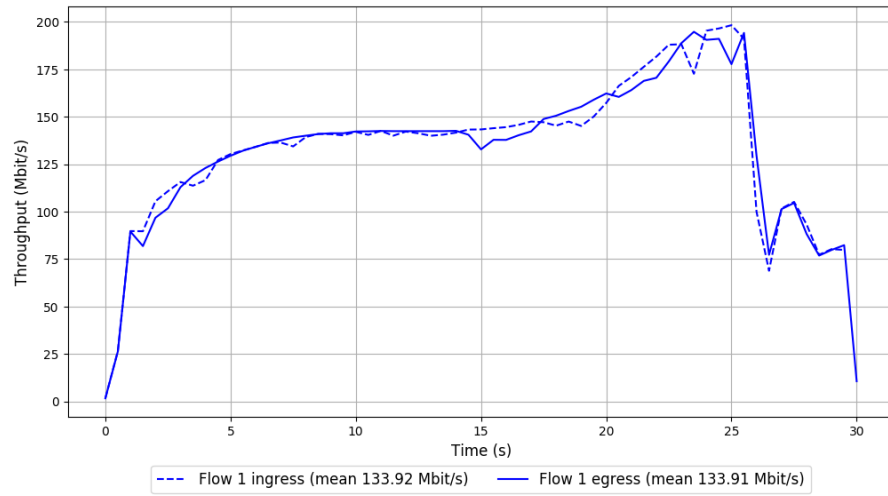
-- Flow 1:

Average throughput: 133.91 Mbit/s

95th percentile per-packet one-way delay: 68.010 ms

Loss rate: 0.01%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-09-21 21:37:43

End at: 2017-09-21 21:38:13

Below is generated by plot.py at 2017-09-22 00:09:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.70 Mbit/s

95th percentile per-packet one-way delay: 65.121 ms

Loss rate: 0.00%

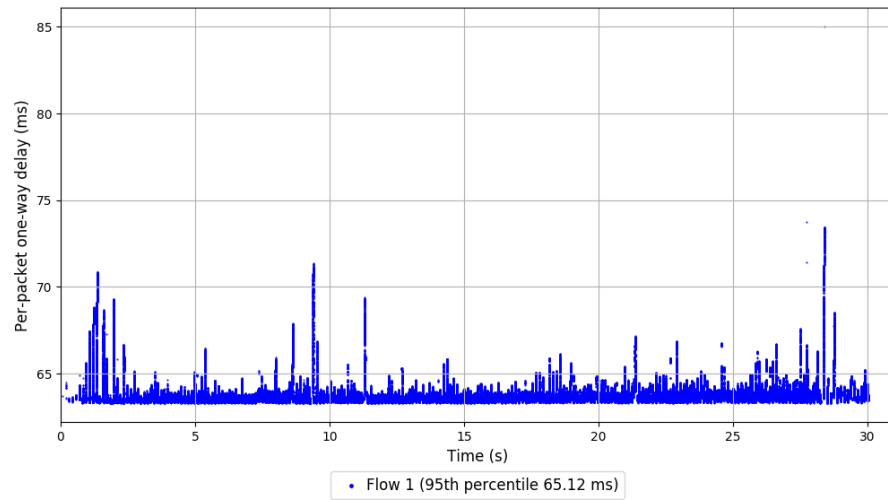
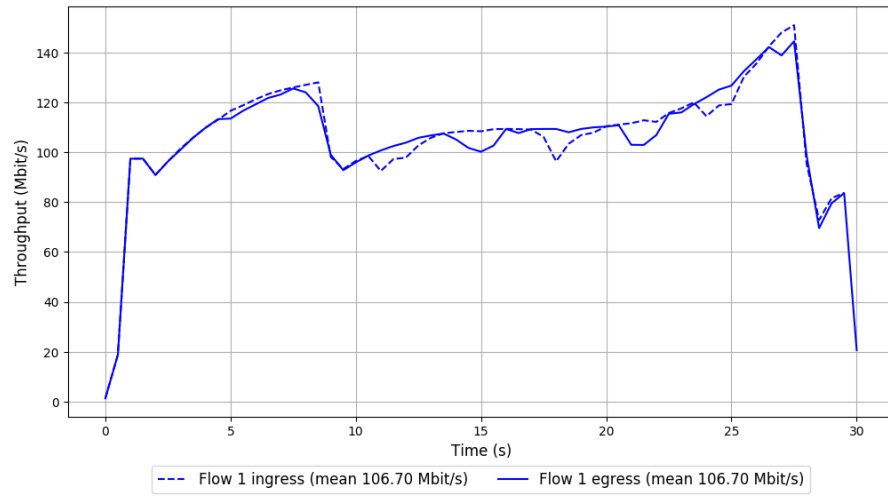
-- Flow 1:

Average throughput: 106.70 Mbit/s

95th percentile per-packet one-way delay: 65.121 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-09-21 21:48:19

End at: 2017-09-21 21:48:49

Below is generated by plot.py at 2017-09-22 00:09:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.02 Mbit/s

95th percentile per-packet one-way delay: 66.357 ms

Loss rate: 0.30%

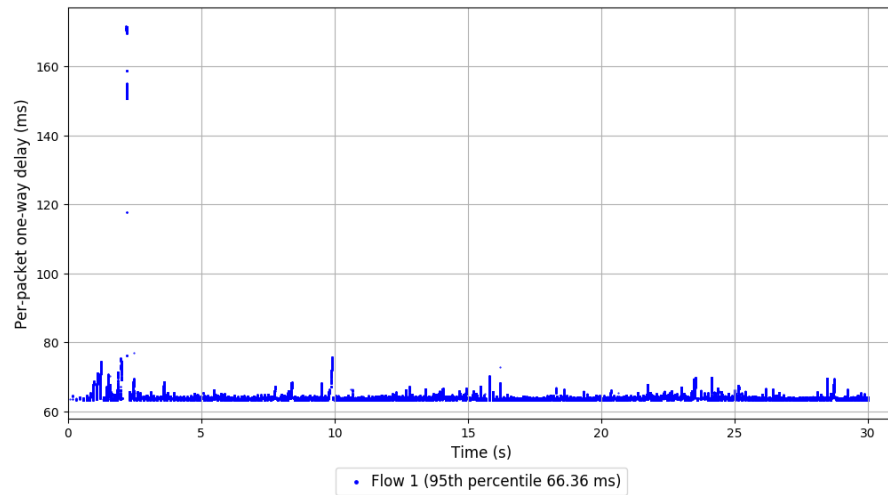
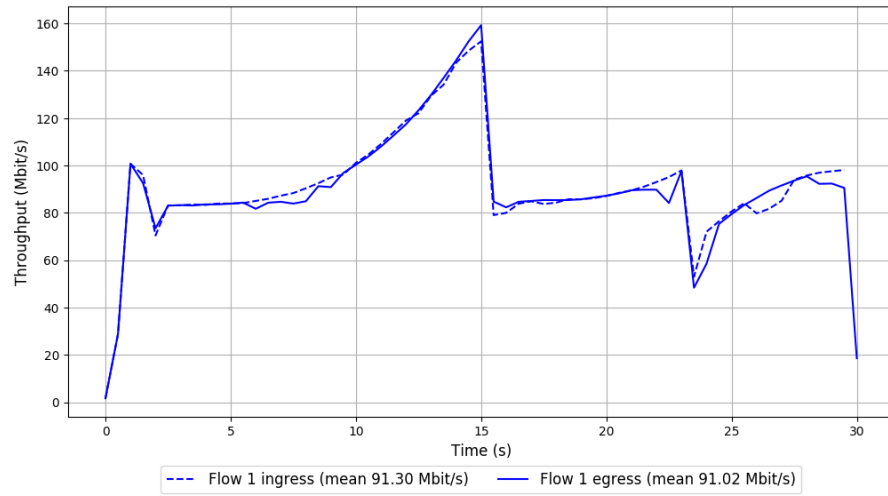
-- Flow 1:

Average throughput: 91.02 Mbit/s

95th percentile per-packet one-way delay: 66.357 ms

Loss rate: 0.30%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-09-21 21:58:48

End at: 2017-09-21 21:59:18

Below is generated by plot.py at 2017-09-22 00:09:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.93 Mbit/s

95th percentile per-packet one-way delay: 66.125 ms

Loss rate: 0.02%

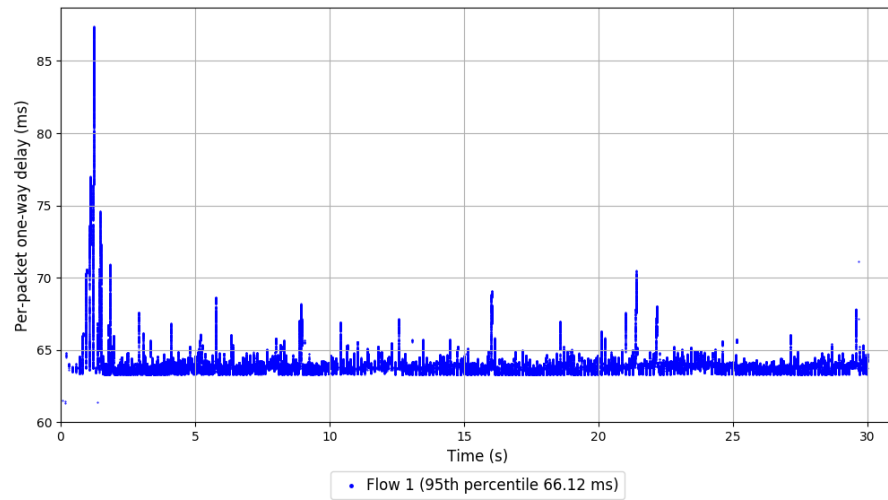
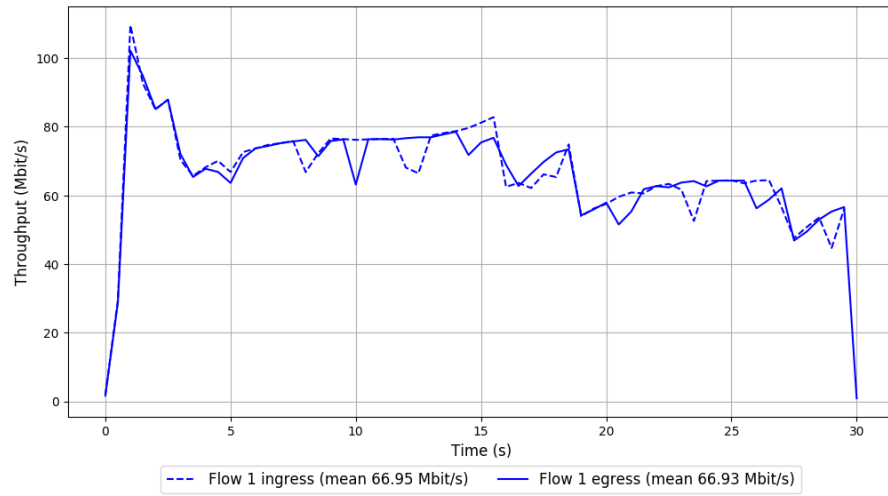
-- Flow 1:

Average throughput: 66.93 Mbit/s

95th percentile per-packet one-way delay: 66.125 ms

Loss rate: 0.02%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-09-21 22:09:28

End at: 2017-09-21 22:09:58

Below is generated by plot.py at 2017-09-22 00:09:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 109.40 Mbit/s

95th percentile per-packet one-way delay: 72.513 ms

Loss rate: 0.02%

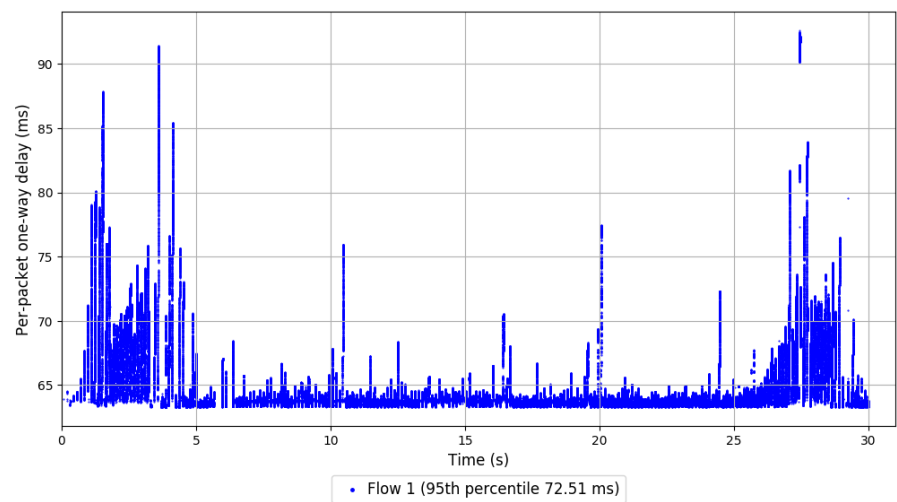
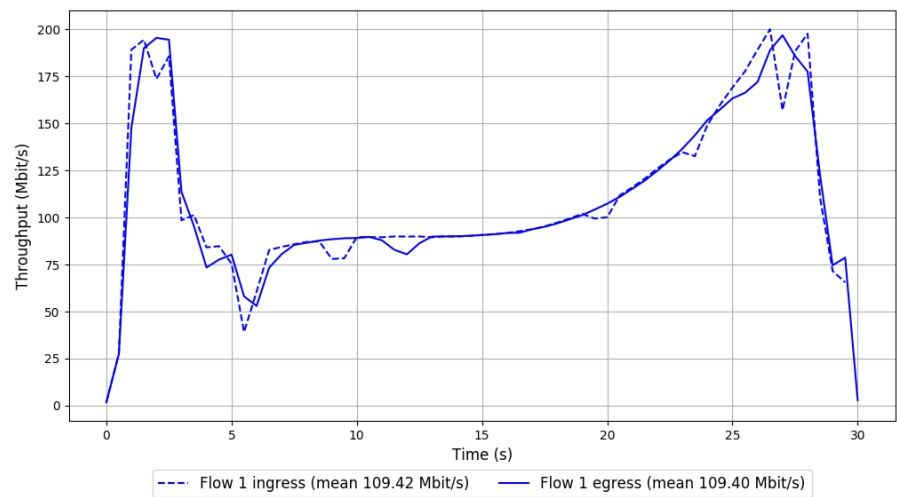
-- Flow 1:

Average throughput: 109.40 Mbit/s

95th percentile per-packet one-way delay: 72.513 ms

Loss rate: 0.02%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-09-21 22:20:10

End at: 2017-09-21 22:20:40

Below is generated by plot.py at 2017-09-22 00:09:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 117.42 Mbit/s

95th percentile per-packet one-way delay: 65.028 ms

Loss rate: 0.25%

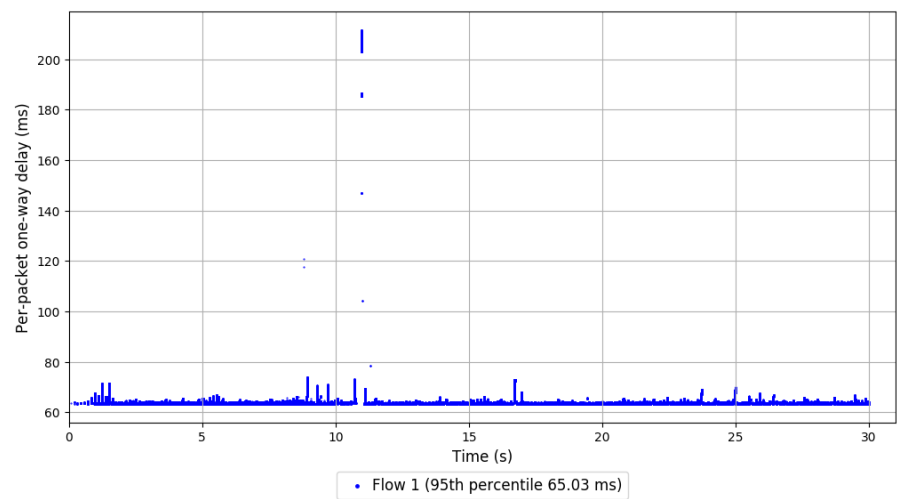
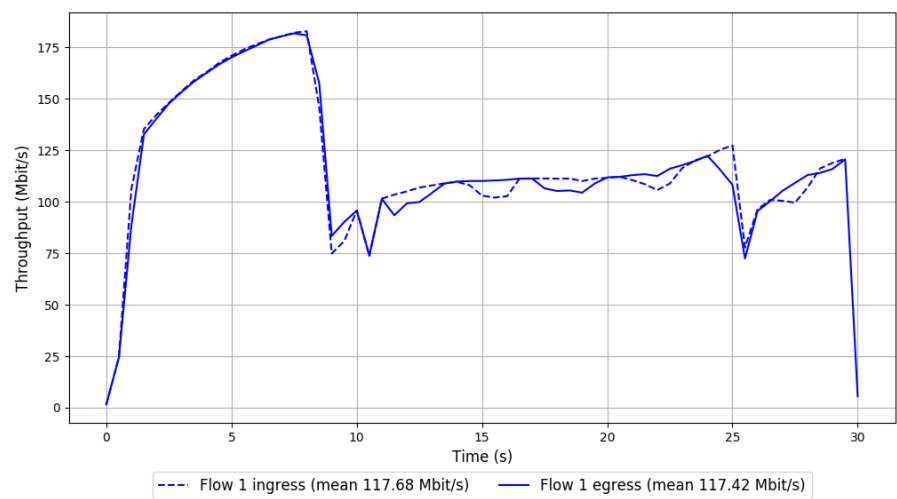
-- Flow 1:

Average throughput: 117.42 Mbit/s

95th percentile per-packet one-way delay: 65.028 ms

Loss rate: 0.25%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-09-21 22:30:54

End at: 2017-09-21 22:31:24

Below is generated by plot.py at 2017-09-22 00:09:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.42 Mbit/s

95th percentile per-packet one-way delay: 64.979 ms

Loss rate: 0.00%

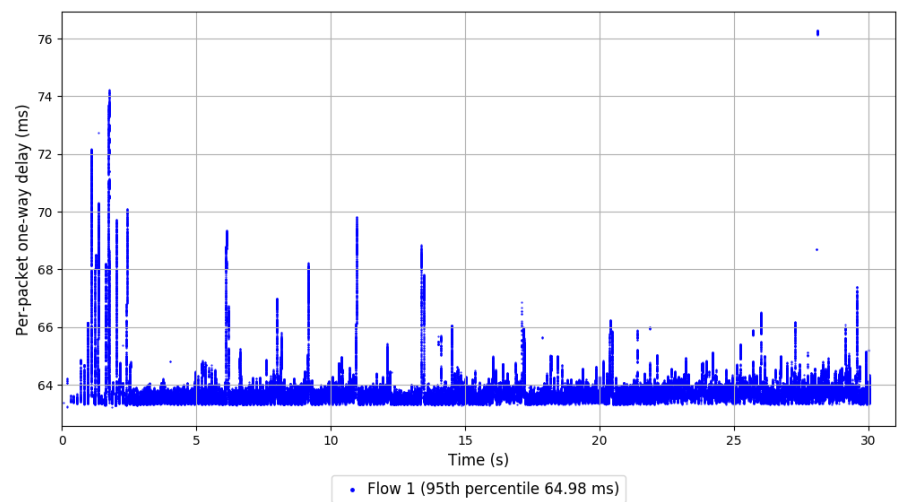
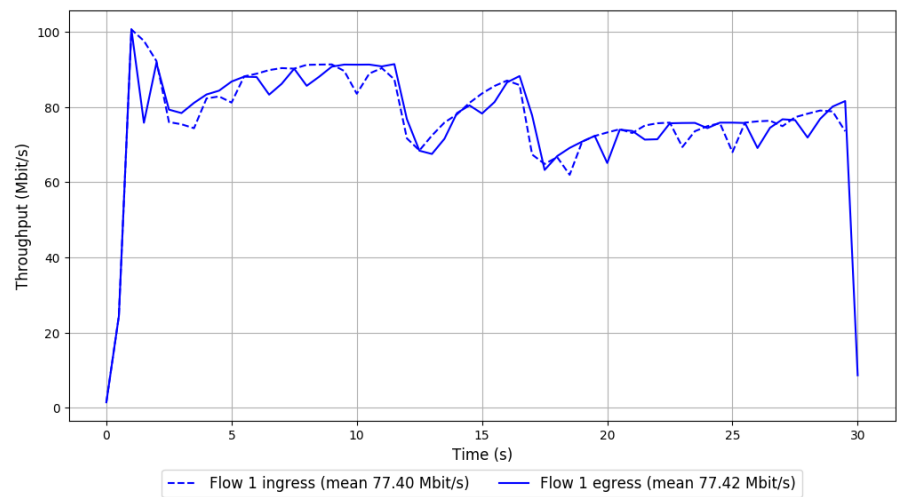
-- Flow 1:

Average throughput: 77.42 Mbit/s

95th percentile per-packet one-way delay: 64.979 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-09-21 22:41:29

End at: 2017-09-21 22:41:59

Below is generated by plot.py at 2017-09-22 00:09:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.79 Mbit/s

95th percentile per-packet one-way delay: 65.983 ms

Loss rate: 0.01%

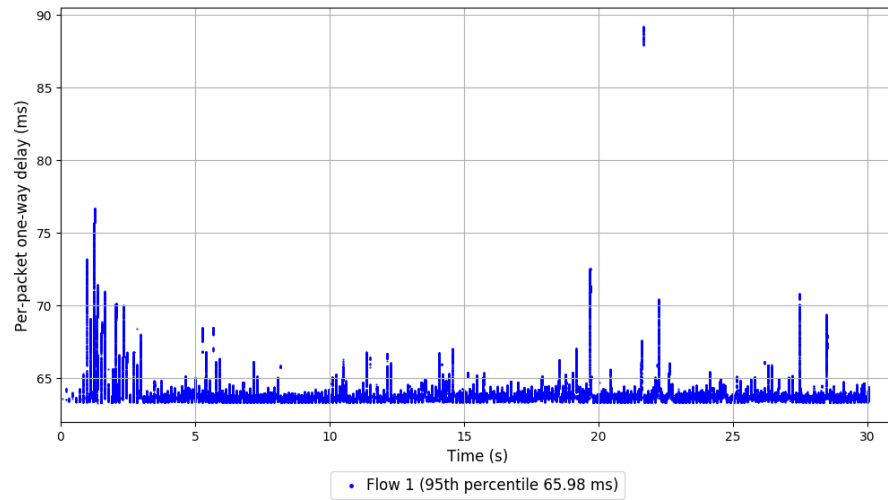
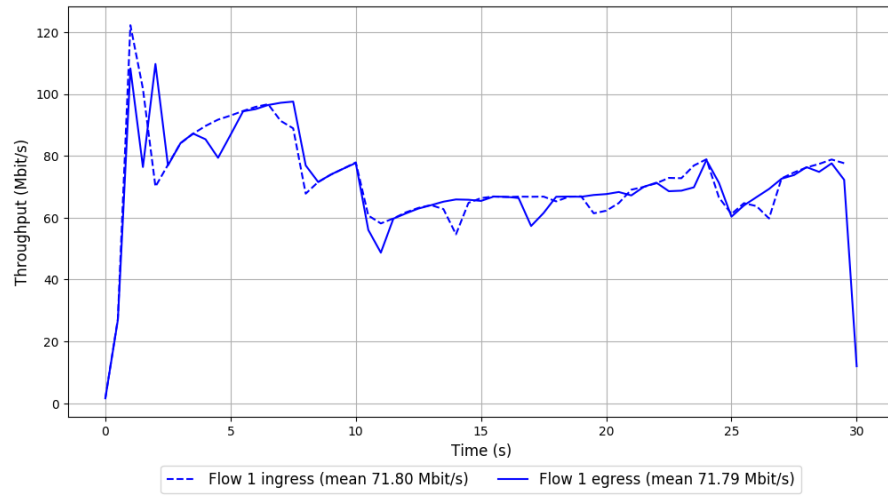
-- Flow 1:

Average throughput: 71.79 Mbit/s

95th percentile per-packet one-way delay: 65.983 ms

Loss rate: 0.01%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-09-21 22:52:00

End at: 2017-09-21 22:52:30

Below is generated by plot.py at 2017-09-22 00:10:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.48 Mbit/s

95th percentile per-packet one-way delay: 68.954 ms

Loss rate: 0.03%

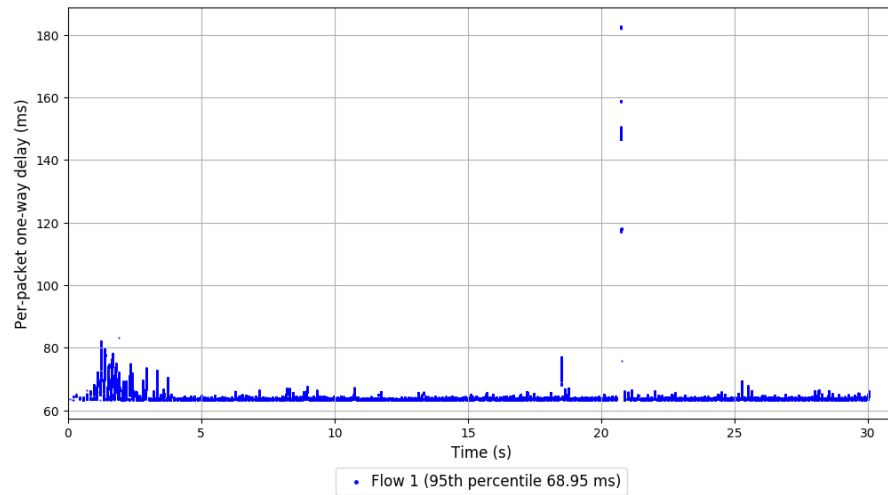
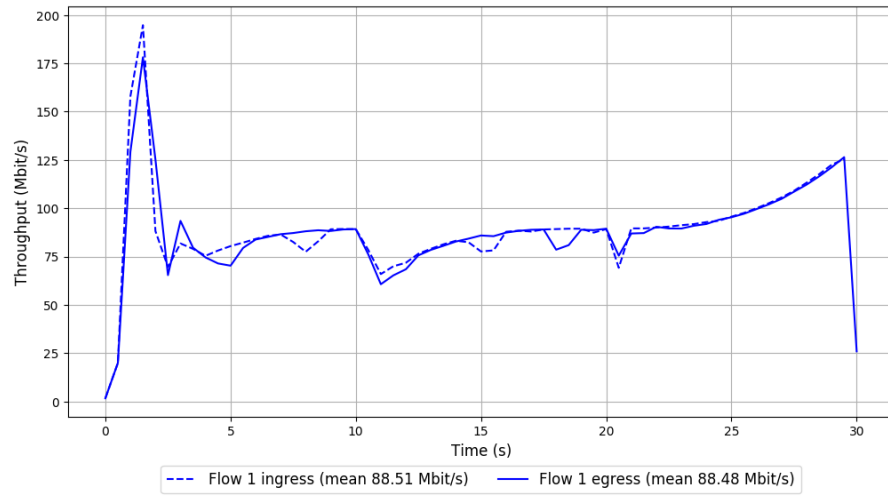
-- Flow 1:

Average throughput: 88.48 Mbit/s

95th percentile per-packet one-way delay: 68.954 ms

Loss rate: 0.03%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-09-21 23:02:36

End at: 2017-09-21 23:03:06

Below is generated by plot.py at 2017-09-22 00:10:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.85 Mbit/s

95th percentile per-packet one-way delay: 67.356 ms

Loss rate: 0.02%

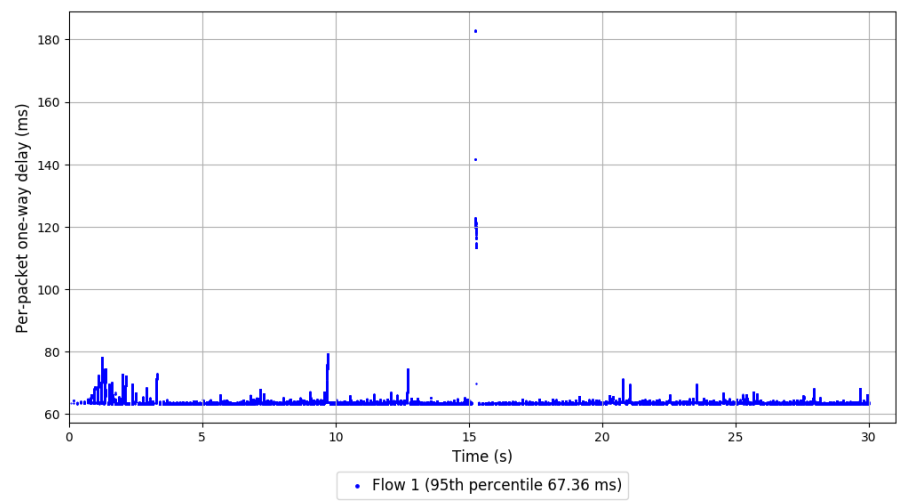
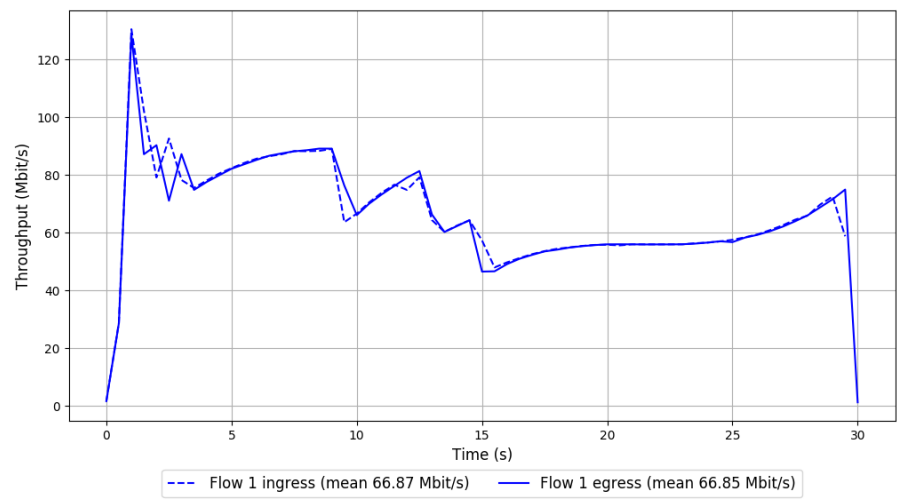
-- Flow 1:

Average throughput: 66.85 Mbit/s

95th percentile per-packet one-way delay: 67.356 ms

Loss rate: 0.02%

Run 10: Report of TCP Cubic — Data Link

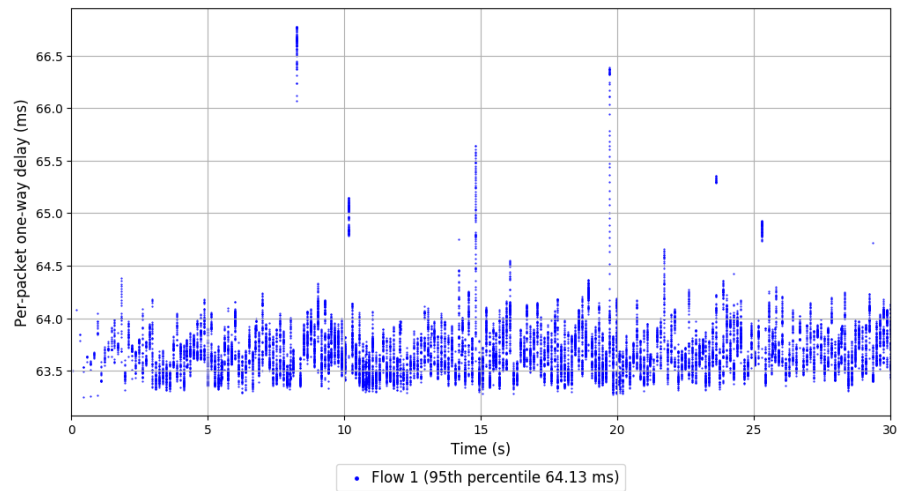
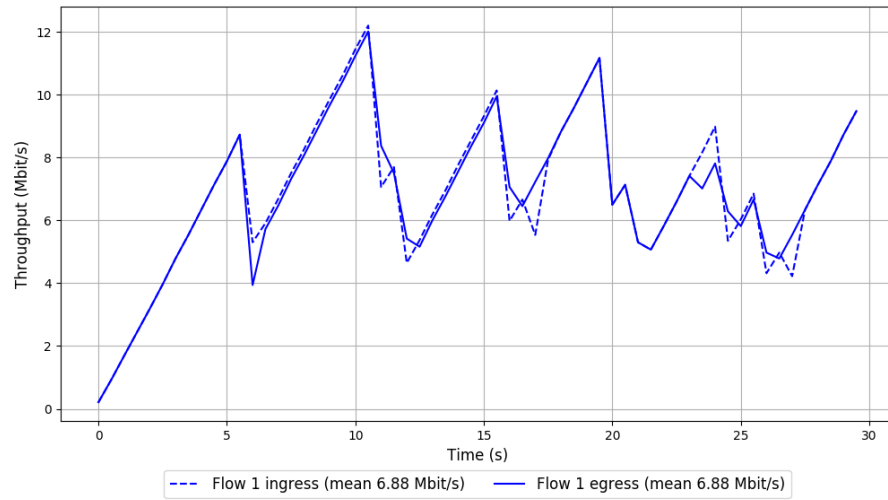


```
Run 1: Statistics of LEDBAT

Start at: 2017-09-21 21:29:00
End at: 2017-09-21 21:29:30

# Below is generated by plot.py at 2017-09-22 00:10:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.88 Mbit/s
95th percentile per-packet one-way delay: 64.127 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.88 Mbit/s
95th percentile per-packet one-way delay: 64.127 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

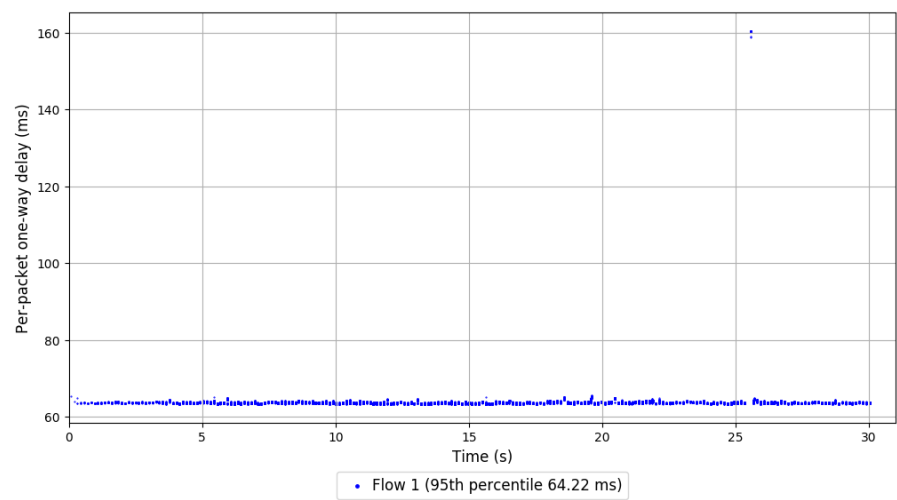
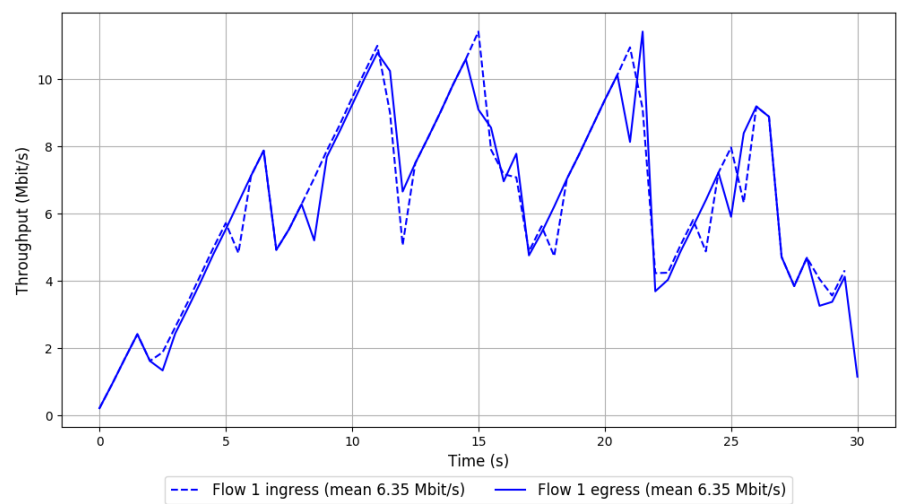


```
Run 2: Statistics of LEDBAT

Start at: 2017-09-21 21:39:55
End at: 2017-09-21 21:40:25

# Below is generated by plot.py at 2017-09-22 00:10:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.35 Mbit/s
95th percentile per-packet one-way delay: 64.220 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 6.35 Mbit/s
95th percentile per-packet one-way delay: 64.220 ms
Loss rate: 0.04%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-09-21 21:50:32

End at: 2017-09-21 21:51:02

Below is generated by plot.py at 2017-09-22 00:10:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.56 Mbit/s

95th percentile per-packet one-way delay: 64.463 ms

Loss rate: 0.58%

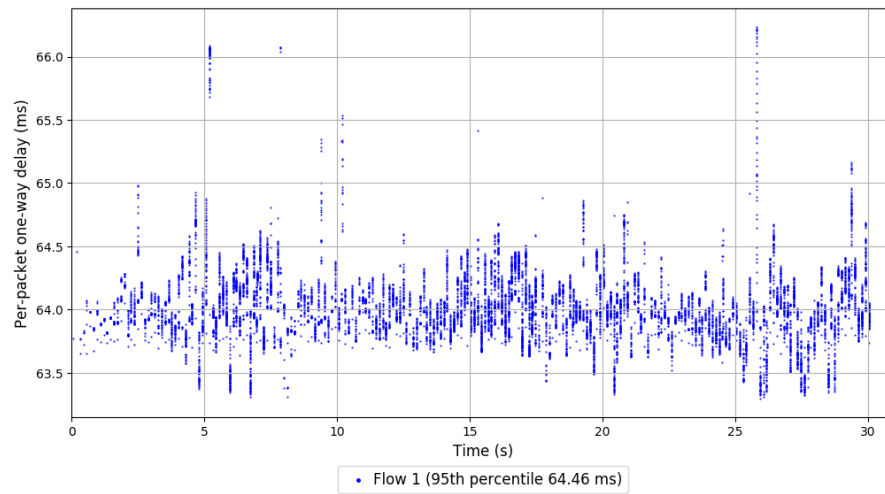
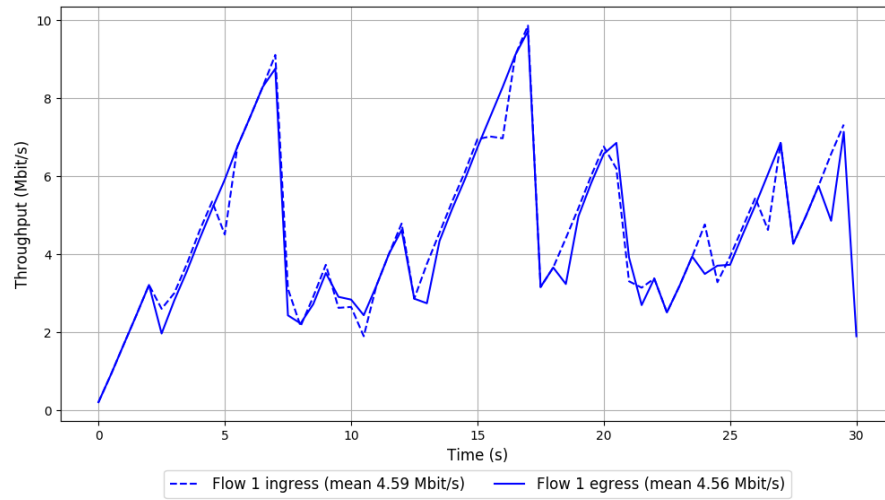
-- Flow 1:

Average throughput: 4.56 Mbit/s

95th percentile per-packet one-way delay: 64.463 ms

Loss rate: 0.58%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-09-21 22:00:58

End at: 2017-09-21 22:01:28

Below is generated by plot.py at 2017-09-22 00:10:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.68 Mbit/s

95th percentile per-packet one-way delay: 64.886 ms

Loss rate: 0.39%

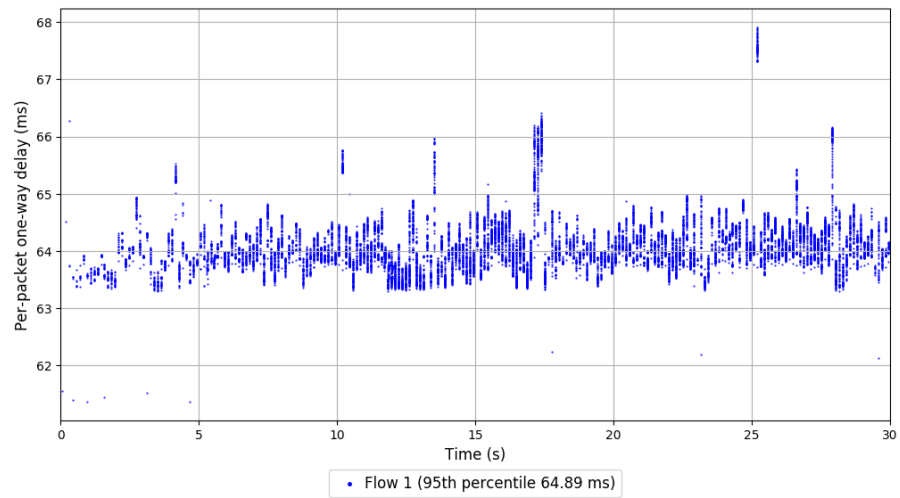
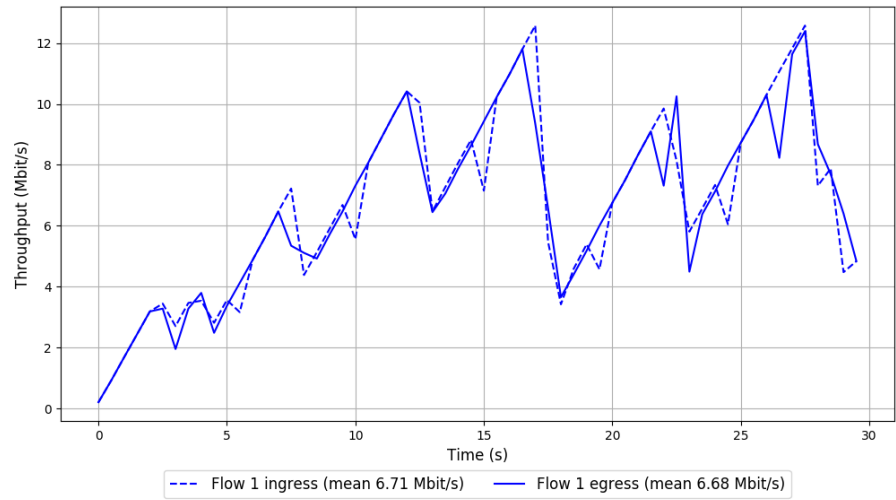
-- Flow 1:

Average throughput: 6.68 Mbit/s

95th percentile per-packet one-way delay: 64.886 ms

Loss rate: 0.39%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-09-21 22:11:40

End at: 2017-09-21 22:12:10

Below is generated by plot.py at 2017-09-22 00:10:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.71 Mbit/s

95th percentile per-packet one-way delay: 64.017 ms

Loss rate: 0.05%

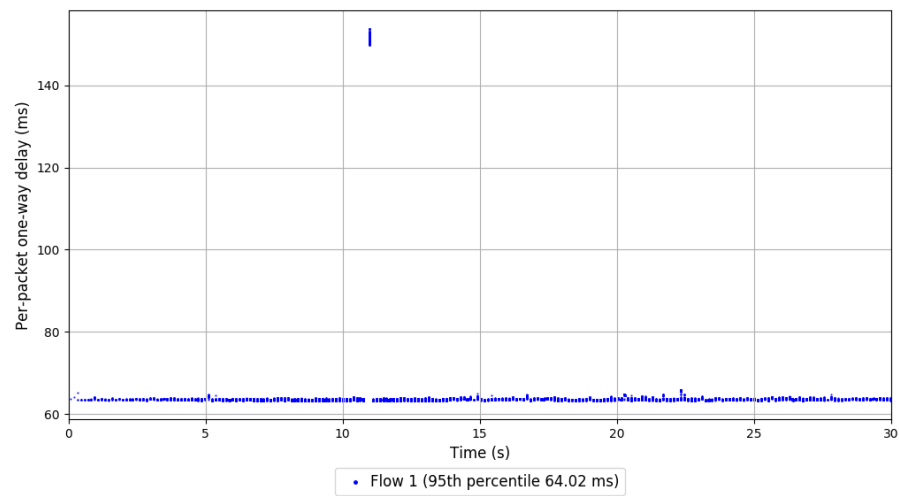
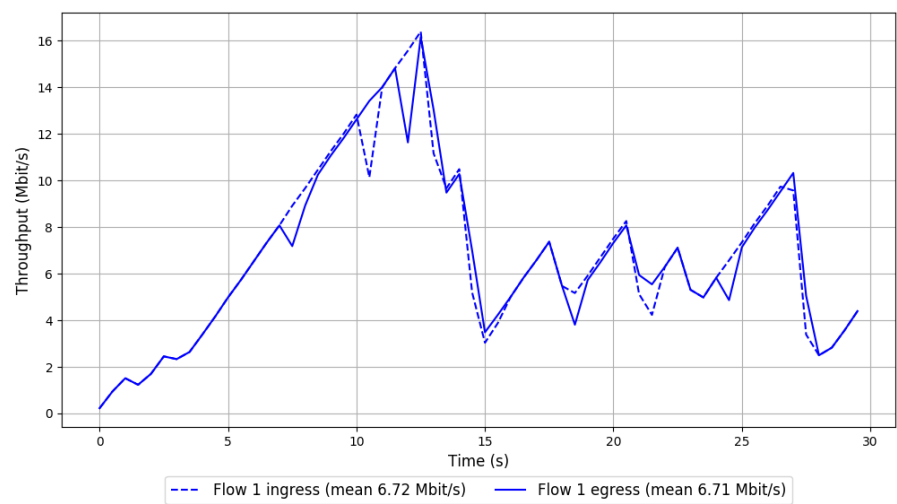
-- Flow 1:

Average throughput: 6.71 Mbit/s

95th percentile per-packet one-way delay: 64.017 ms

Loss rate: 0.05%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-09-21 22:22:22

End at: 2017-09-21 22:22:52

Below is generated by plot.py at 2017-09-22 00:10:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.05 Mbit/s

95th percentile per-packet one-way delay: 64.038 ms

Loss rate: 0.03%

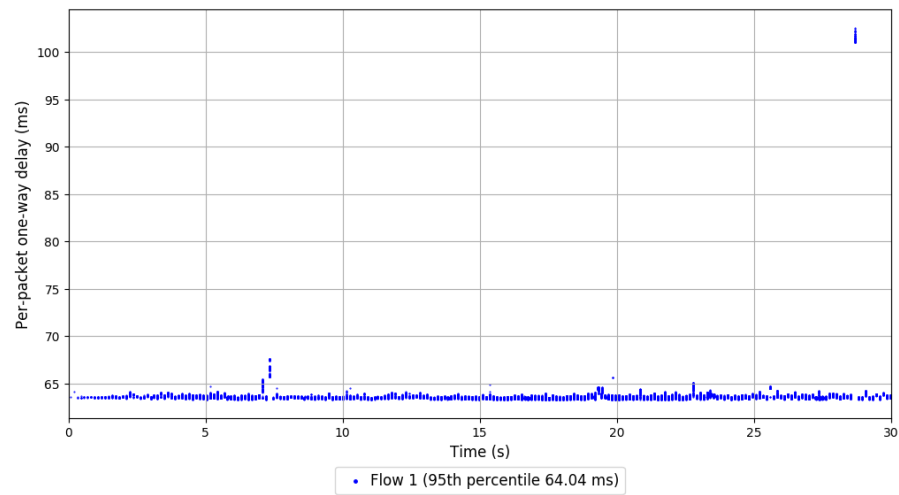
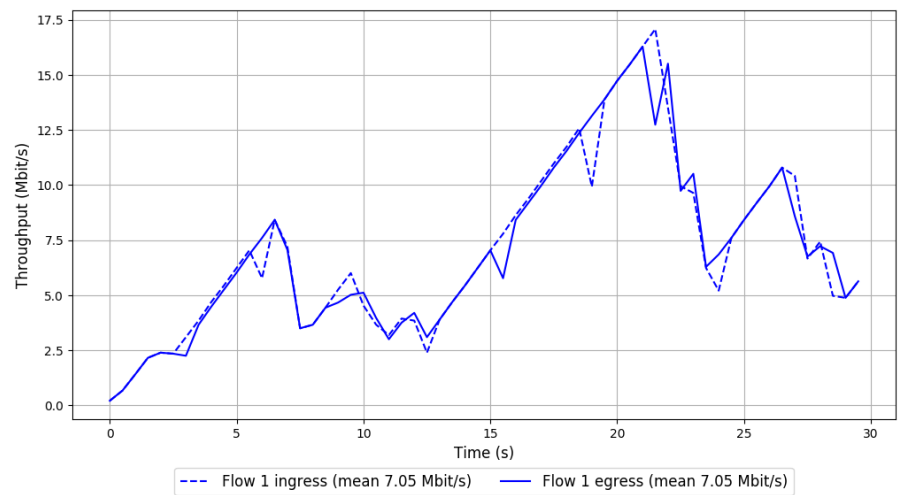
-- Flow 1:

Average throughput: 7.05 Mbit/s

95th percentile per-packet one-way delay: 64.038 ms

Loss rate: 0.03%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-09-21 22:32:58

End at: 2017-09-21 22:33:28

Below is generated by plot.py at 2017-09-22 00:10:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.17 Mbit/s

95th percentile per-packet one-way delay: 64.504 ms

Loss rate: 1.01%

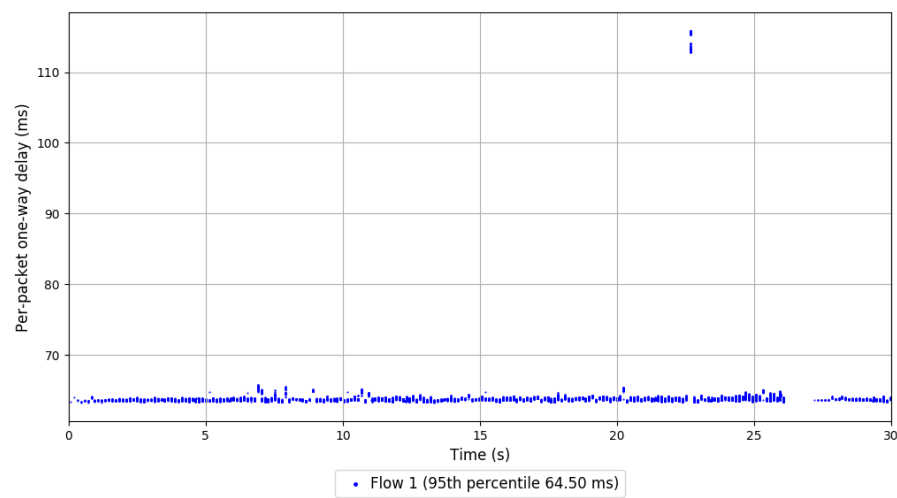
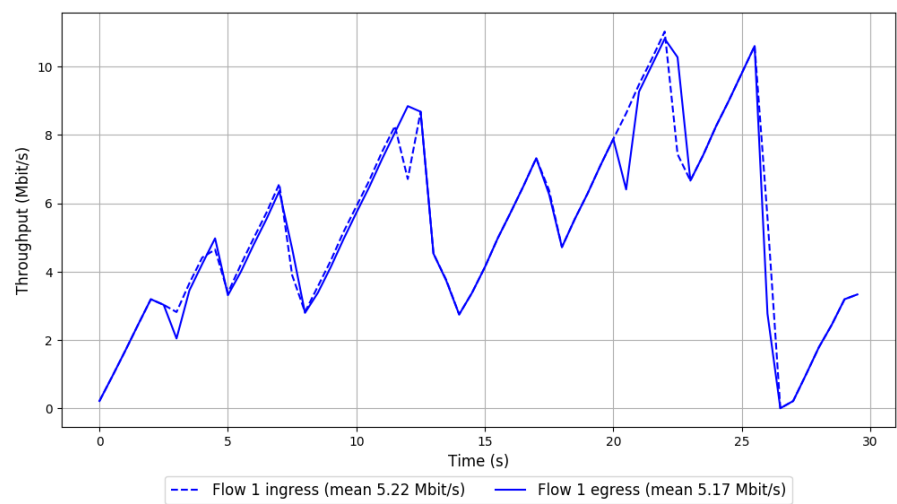
-- Flow 1:

Average throughput: 5.17 Mbit/s

95th percentile per-packet one-way delay: 64.504 ms

Loss rate: 1.01%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-09-21 22:43:40

End at: 2017-09-21 22:44:10

Below is generated by plot.py at 2017-09-22 00:10:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 64.353 ms

Loss rate: 0.11%

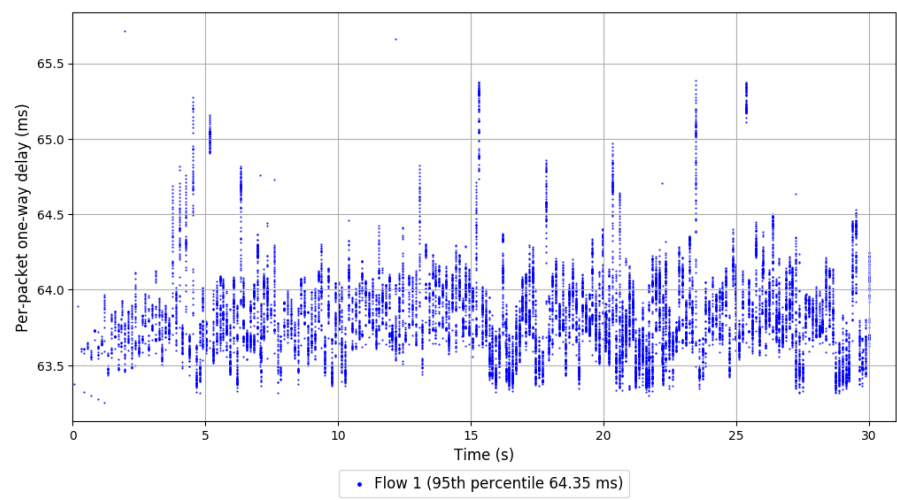
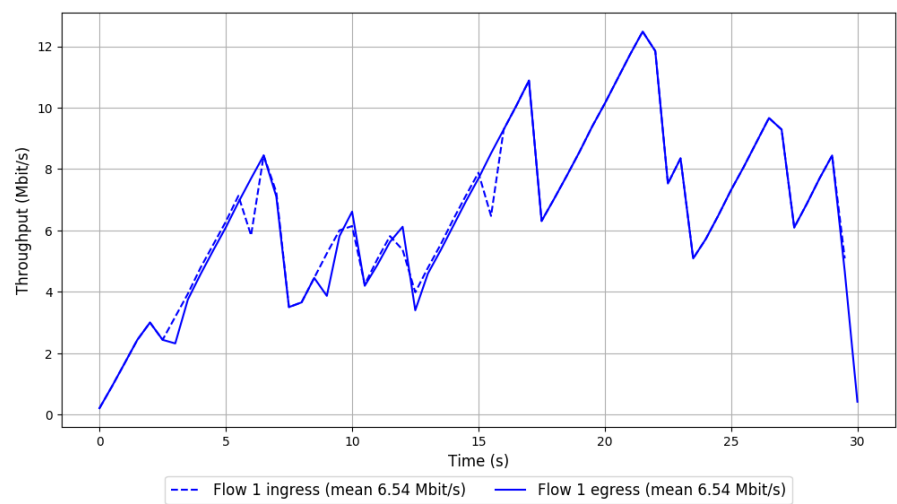
-- Flow 1:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 64.353 ms

Loss rate: 0.11%

Run 8: Report of LEDBAT — Data Link

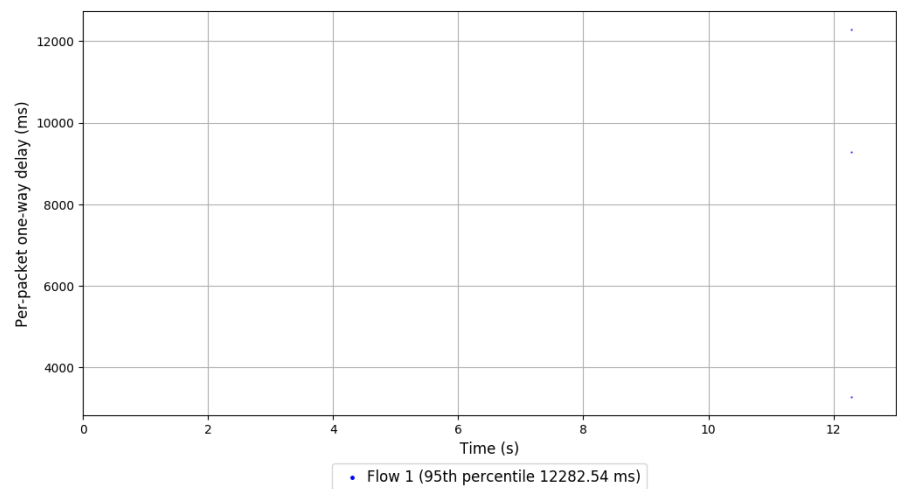
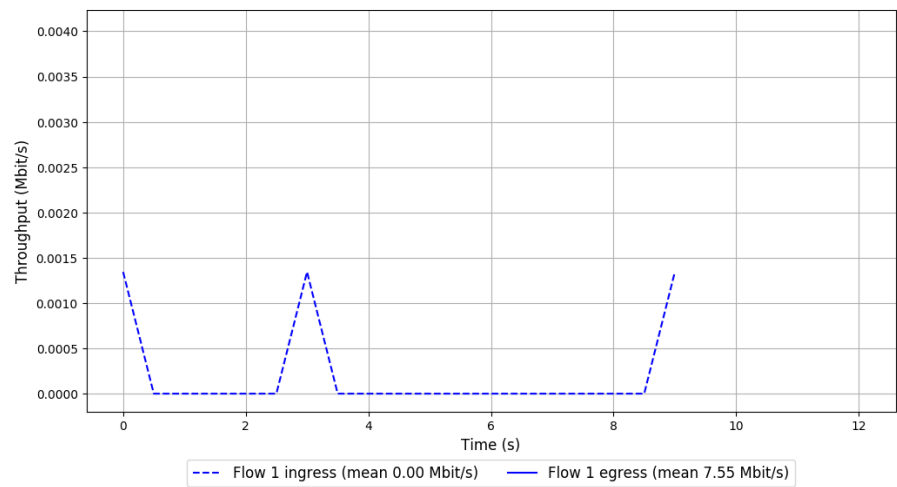


Run 9: Statistics of LEDBAT

Start at: 2017-09-21 22:54:12

End at: 2017-09-21 22:54:42

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-09-21 23:04:46

End at: 2017-09-21 23:05:16

Below is generated by plot.py at 2017-09-22 00:10:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.45 Mbit/s

95th percentile per-packet one-way delay: 64.846 ms

Loss rate: 0.69%

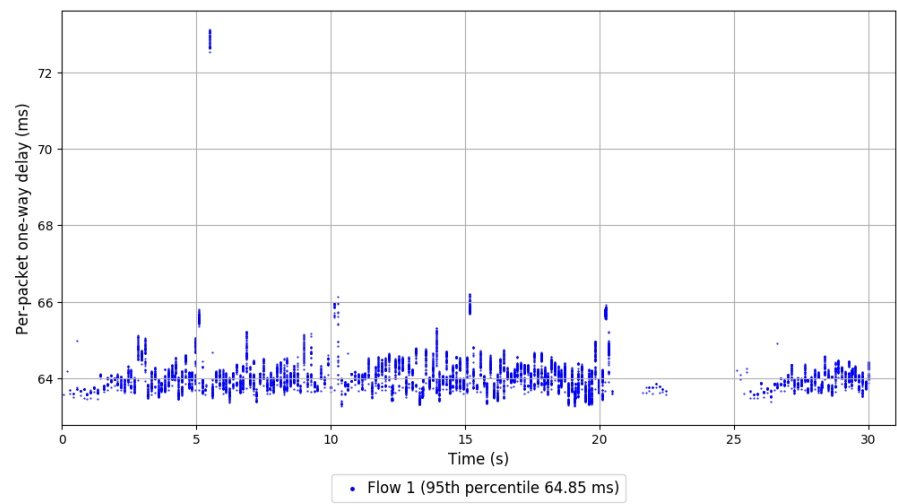
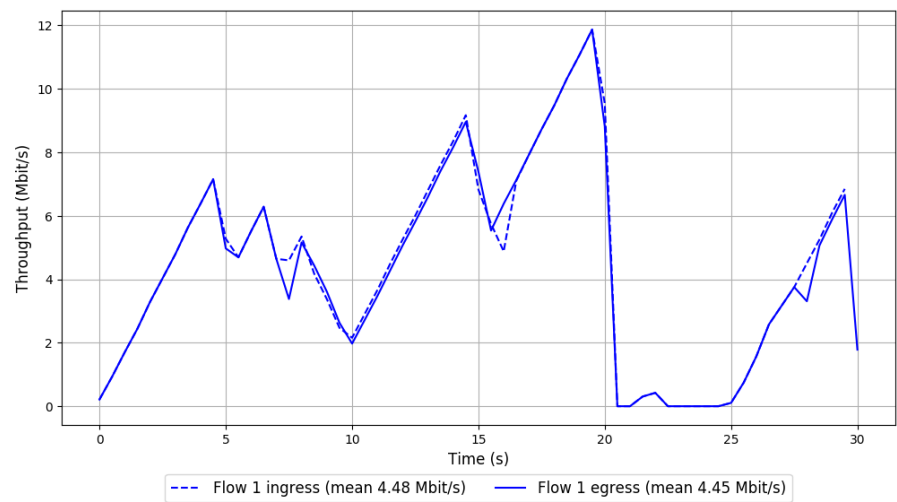
-- Flow 1:

Average throughput: 4.45 Mbit/s

95th percentile per-packet one-way delay: 64.846 ms

Loss rate: 0.69%

Run 10: Report of LEDBAT — Data Link

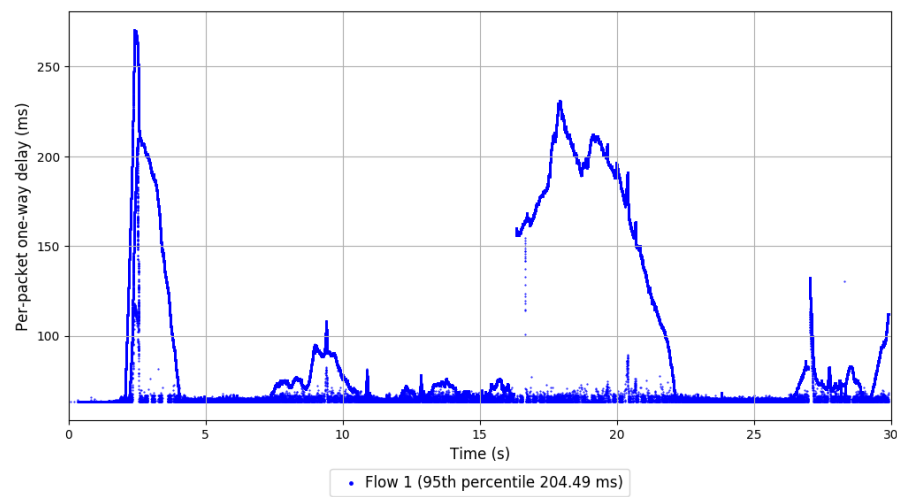
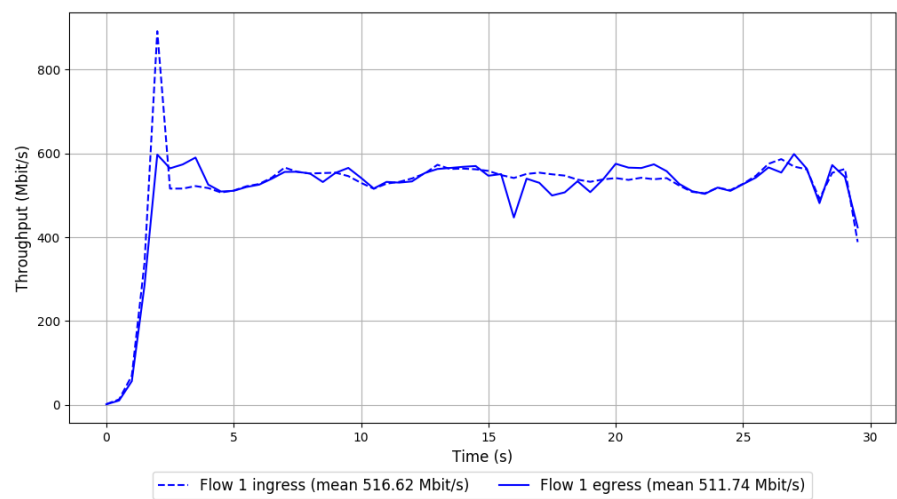


```
Run 1: Statistics of PCC

Start at: 2017-09-21 21:36:05
End at: 2017-09-21 21:36:35

# Below is generated by plot.py at 2017-09-22 00:19:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 511.74 Mbit/s
95th percentile per-packet one-way delay: 204.491 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 511.74 Mbit/s
95th percentile per-packet one-way delay: 204.491 ms
Loss rate: 0.95%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-09-21 21:46:45

End at: 2017-09-21 21:47:15

Below is generated by plot.py at 2017-09-22 00:19:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 451.76 Mbit/s

95th percentile per-packet one-way delay: 153.808 ms

Loss rate: 0.53%

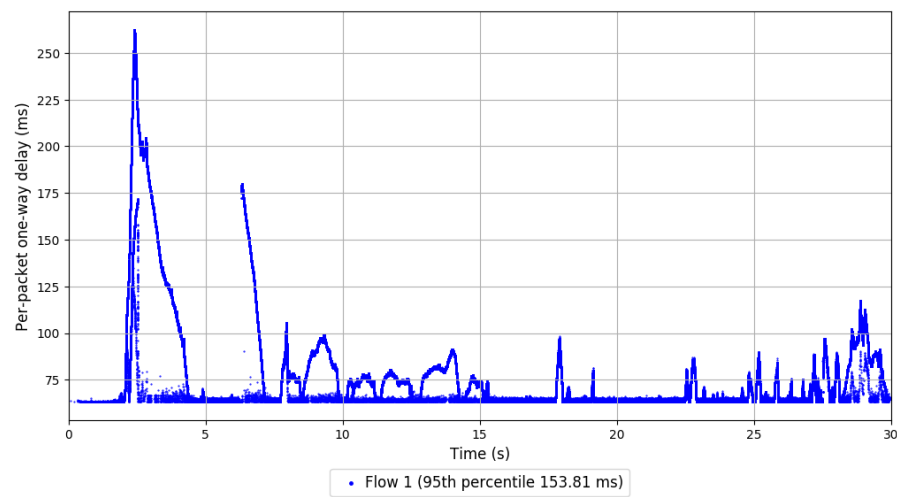
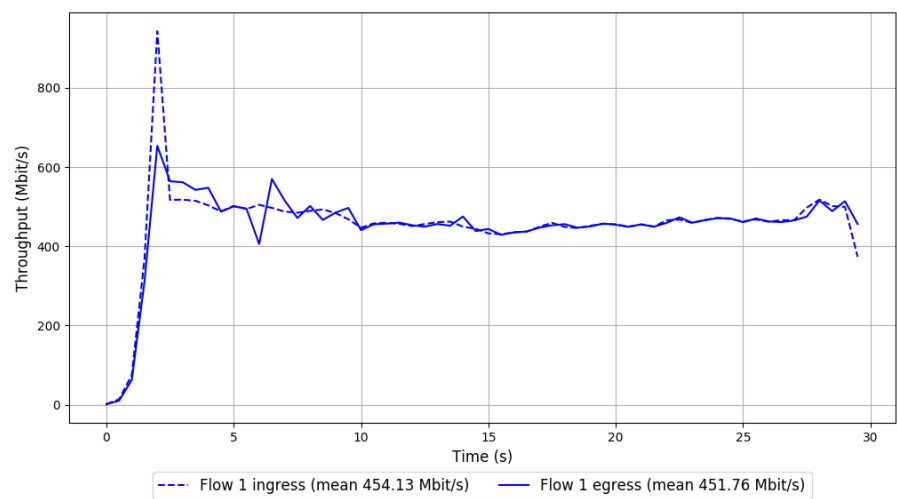
-- Flow 1:

Average throughput: 451.76 Mbit/s

95th percentile per-packet one-way delay: 153.808 ms

Loss rate: 0.53%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-09-21 21:57:13

End at: 2017-09-21 21:57:43

Below is generated by plot.py at 2017-09-22 00:19:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 477.99 Mbit/s

95th percentile per-packet one-way delay: 197.328 ms

Loss rate: 1.42%

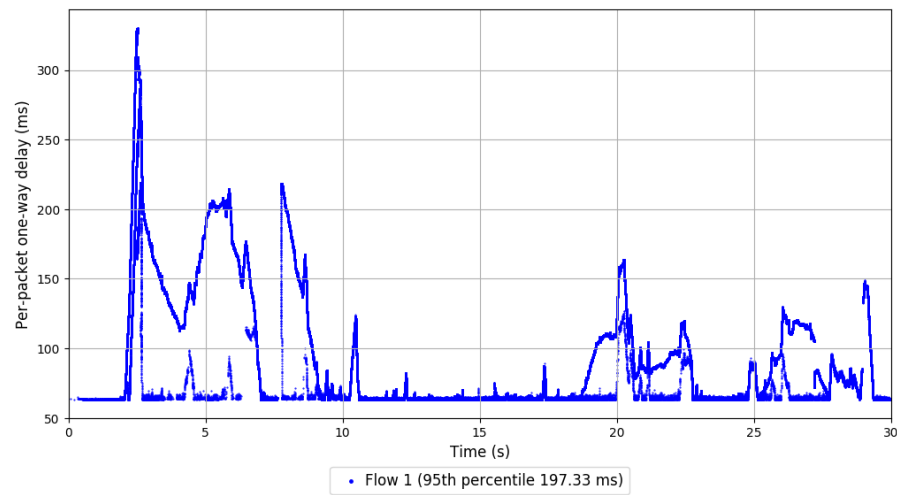
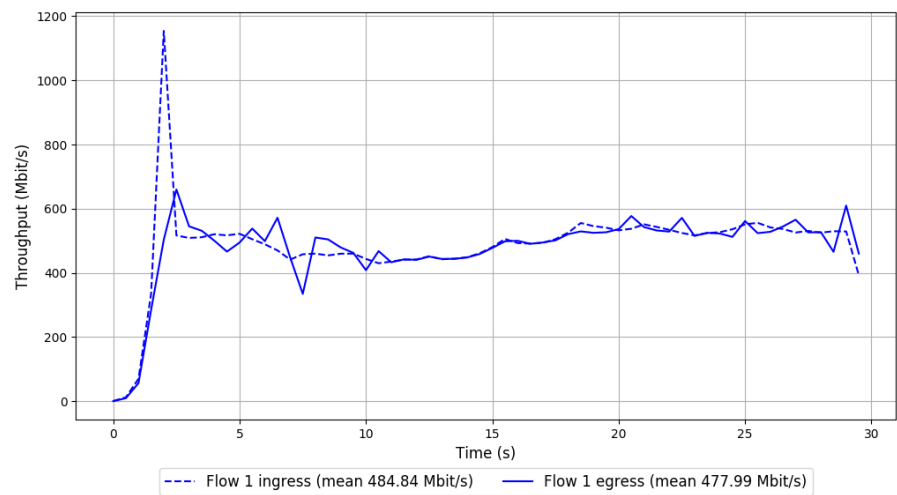
-- Flow 1:

Average throughput: 477.99 Mbit/s

95th percentile per-packet one-way delay: 197.328 ms

Loss rate: 1.42%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-09-21 22:07:52

End at: 2017-09-21 22:08:22

Below is generated by plot.py at 2017-09-22 00:19:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 495.32 Mbit/s

95th percentile per-packet one-way delay: 178.119 ms

Loss rate: 1.02%

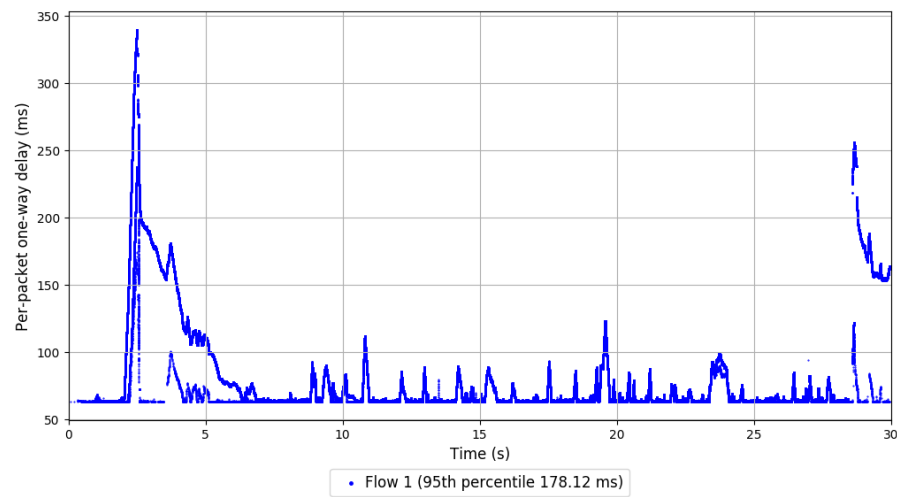
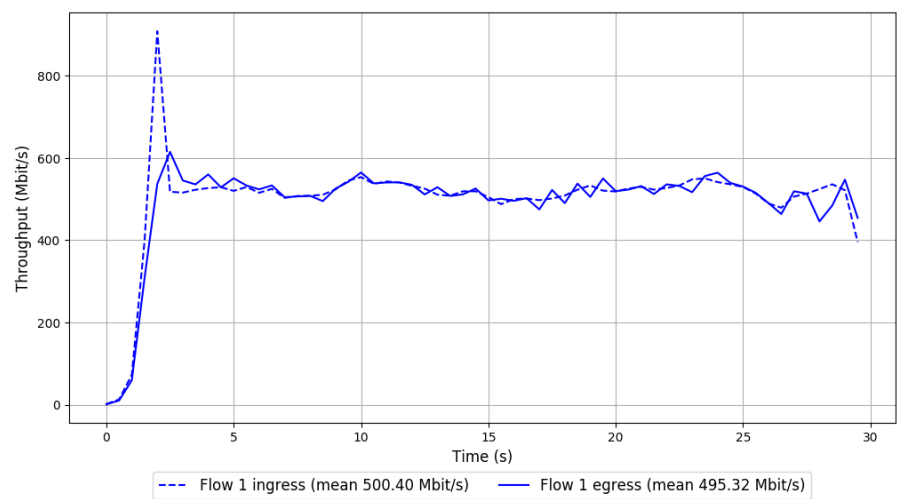
-- Flow 1:

Average throughput: 495.32 Mbit/s

95th percentile per-packet one-way delay: 178.119 ms

Loss rate: 1.02%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-09-21 22:18:34

End at: 2017-09-21 22:19:04

Below is generated by plot.py at 2017-09-22 00:19:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 513.45 Mbit/s

95th percentile per-packet one-way delay: 192.349 ms

Loss rate: 0.55%

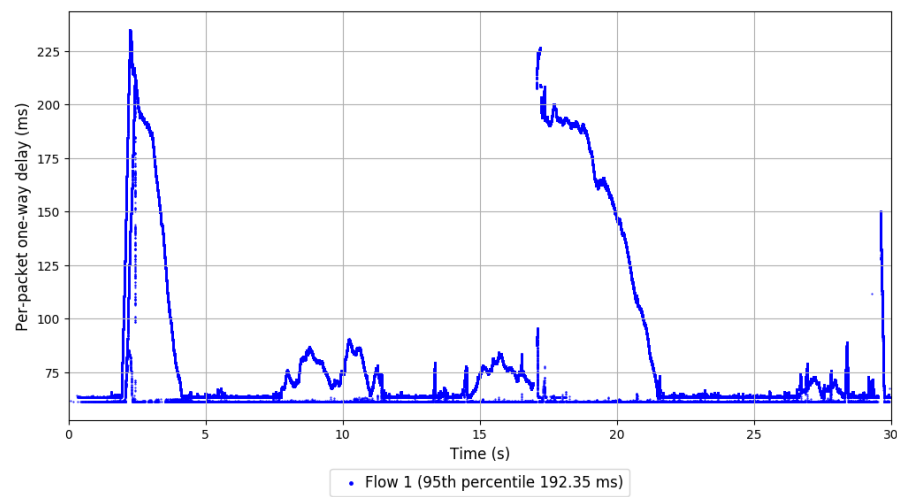
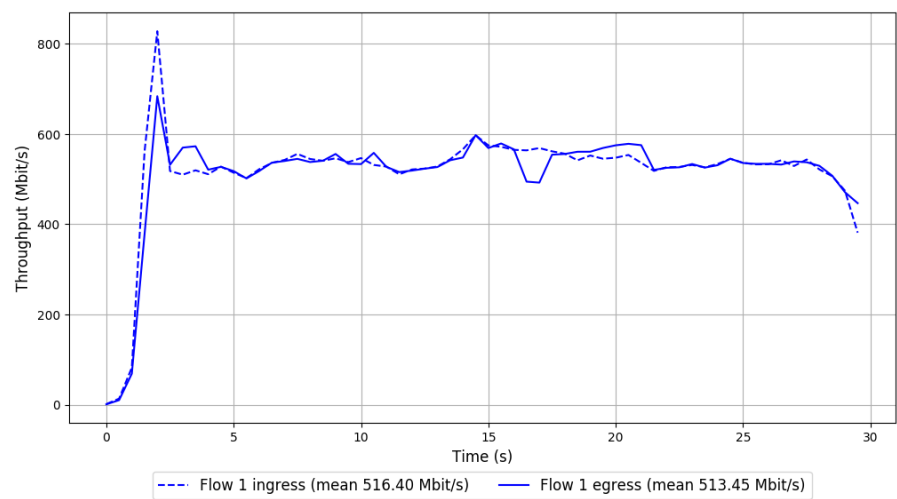
-- Flow 1:

Average throughput: 513.45 Mbit/s

95th percentile per-packet one-way delay: 192.349 ms

Loss rate: 0.55%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-09-21 22:29:18

End at: 2017-09-21 22:29:48

Below is generated by plot.py at 2017-09-22 00:19:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 492.02 Mbit/s

95th percentile per-packet one-way delay: 187.109 ms

Loss rate: 0.30%

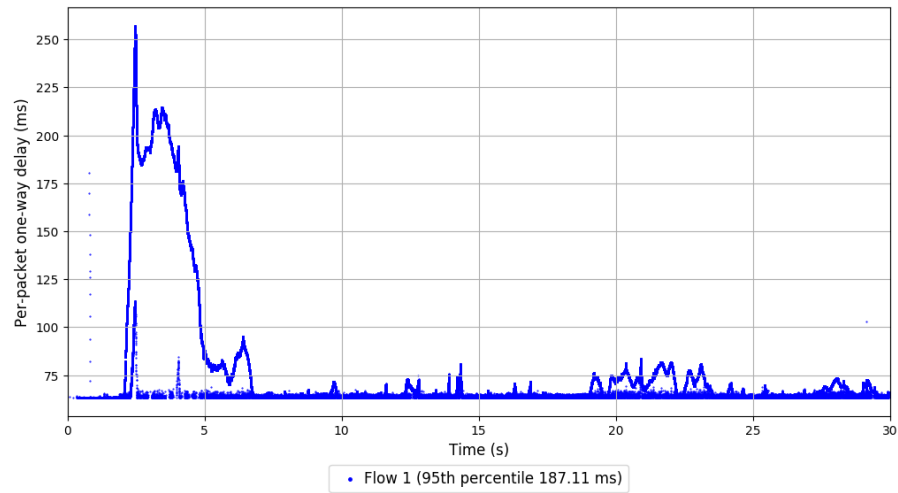
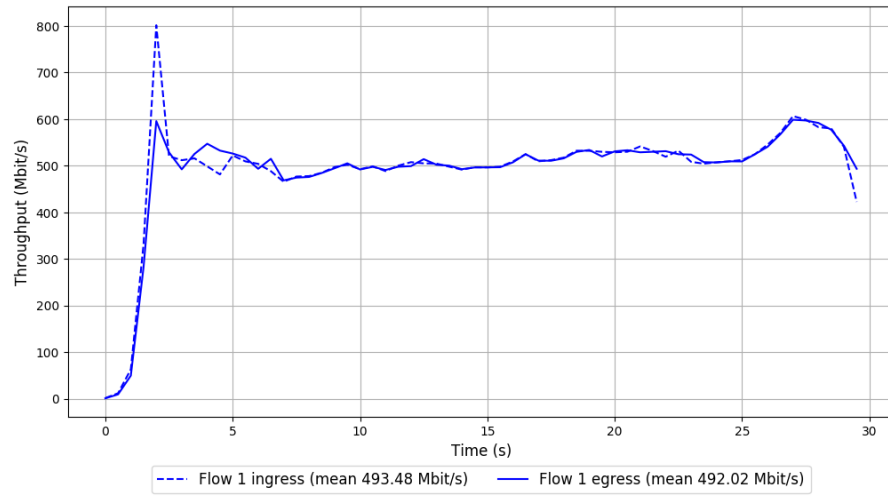
-- Flow 1:

Average throughput: 492.02 Mbit/s

95th percentile per-packet one-way delay: 187.109 ms

Loss rate: 0.30%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-09-21 22:39:54

End at: 2017-09-21 22:40:24

Below is generated by plot.py at 2017-09-22 00:19:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 505.27 Mbit/s

95th percentile per-packet one-way delay: 132.500 ms

Loss rate: 0.33%

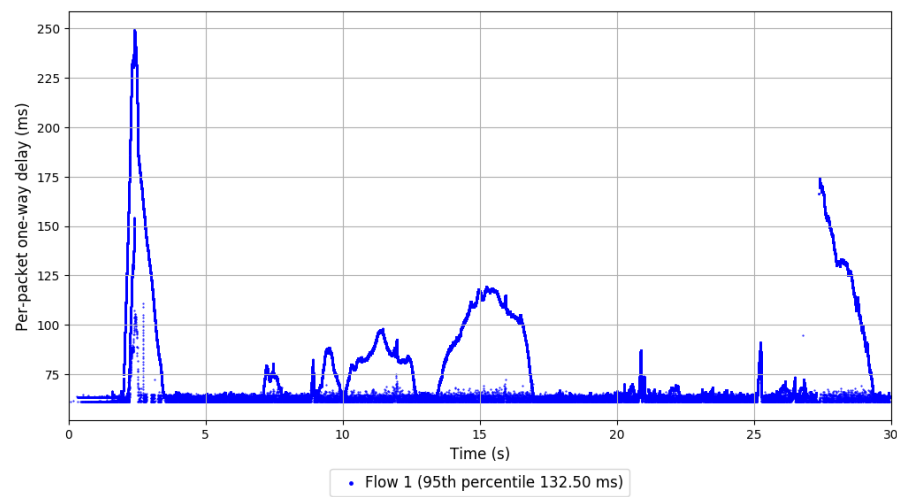
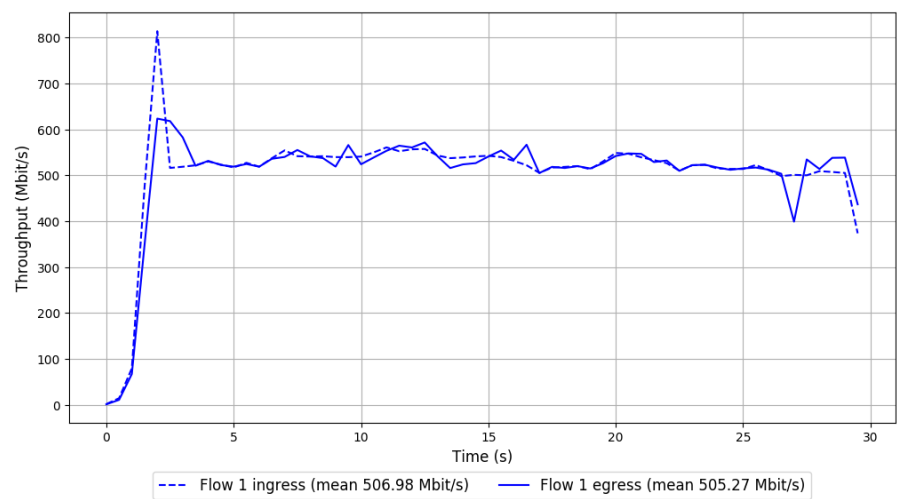
-- Flow 1:

Average throughput: 505.27 Mbit/s

95th percentile per-packet one-way delay: 132.500 ms

Loss rate: 0.33%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-09-21 22:50:33

End at: 2017-09-21 22:51:03

Below is generated by plot.py at 2017-09-22 00:19:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 290.21 Mbit/s

95th percentile per-packet one-way delay: 83.334 ms

Loss rate: 0.00%

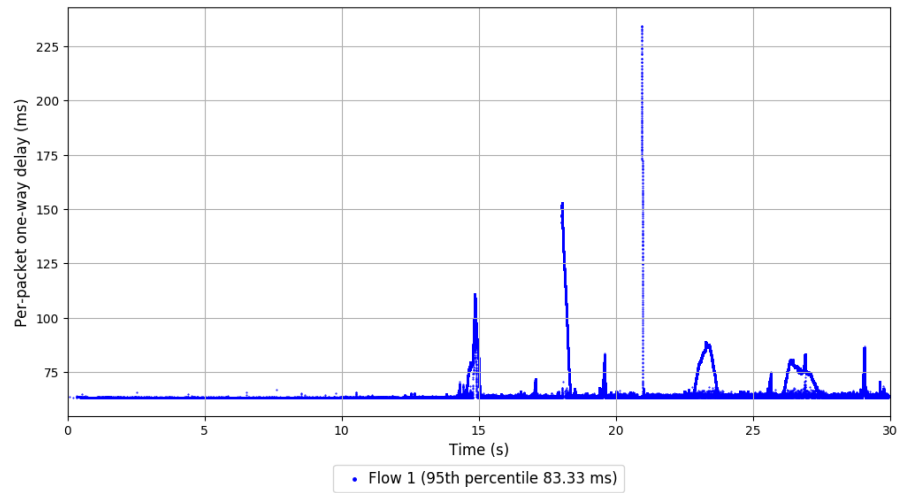
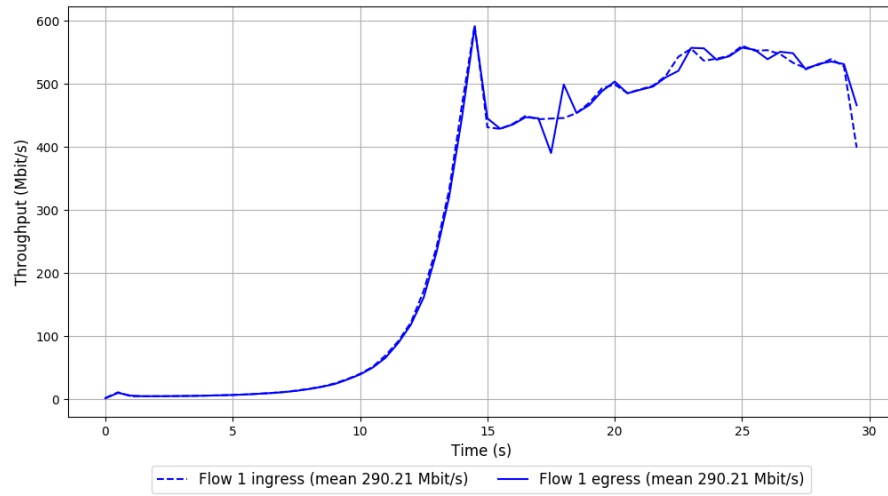
-- Flow 1:

Average throughput: 290.21 Mbit/s

95th percentile per-packet one-way delay: 83.334 ms

Loss rate: 0.00%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-09-21 23:01:01

End at: 2017-09-21 23:01:31

Below is generated by plot.py at 2017-09-22 00:26:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 484.08 Mbit/s

95th percentile per-packet one-way delay: 211.277 ms

Loss rate: 2.38%

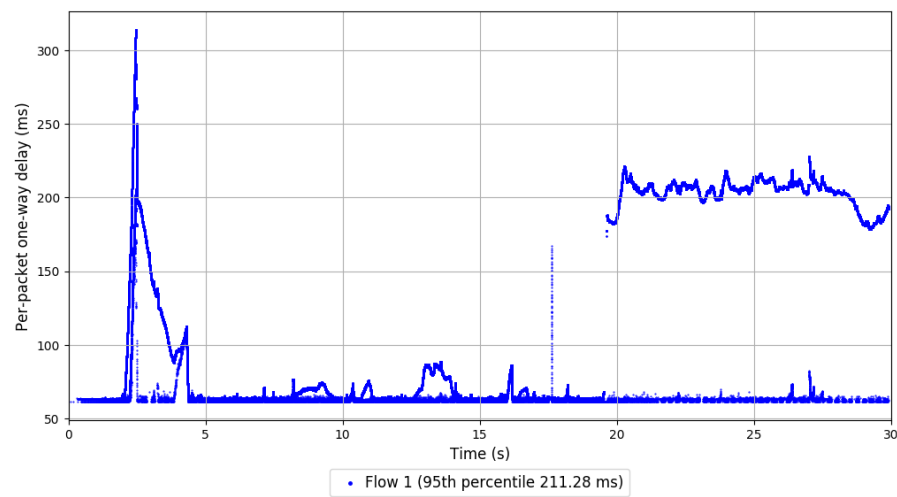
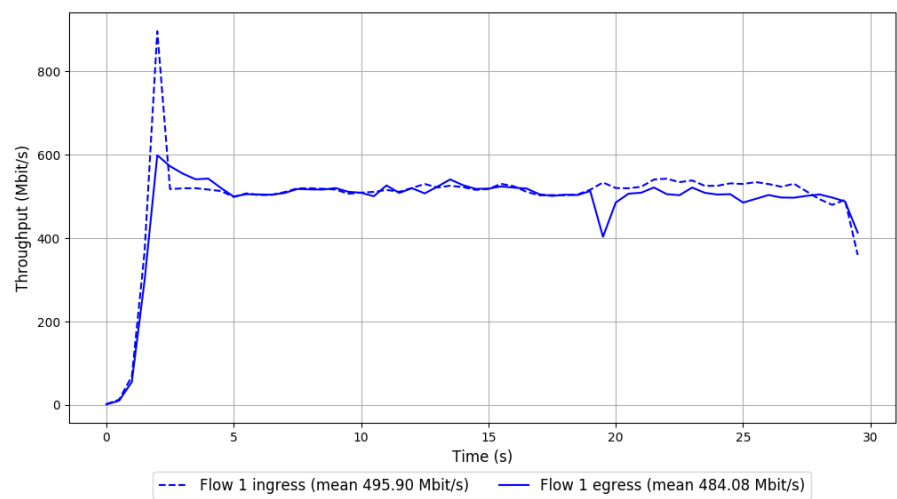
-- Flow 1:

Average throughput: 484.08 Mbit/s

95th percentile per-packet one-way delay: 211.277 ms

Loss rate: 2.38%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-09-21 23:11:27

End at: 2017-09-21 23:11:57

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 464.07 Mbit/s

95th percentile per-packet one-way delay: 196.796 ms

Loss rate: 0.84%

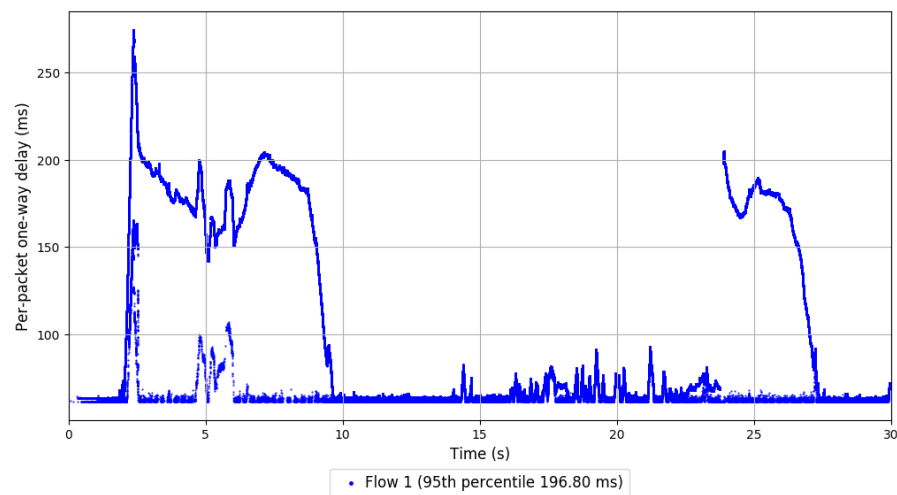
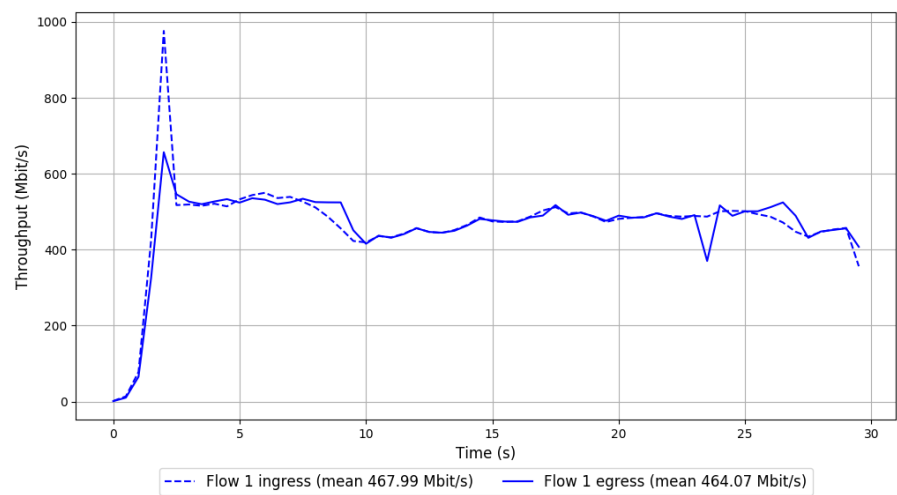
-- Flow 1:

Average throughput: 464.07 Mbit/s

95th percentile per-packet one-way delay: 196.796 ms

Loss rate: 0.84%

Run 10: Report of PCC — Data Link

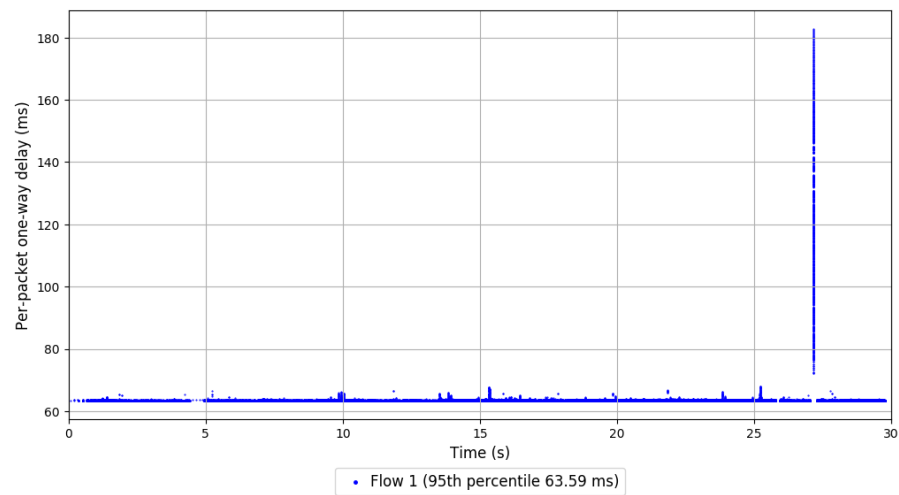
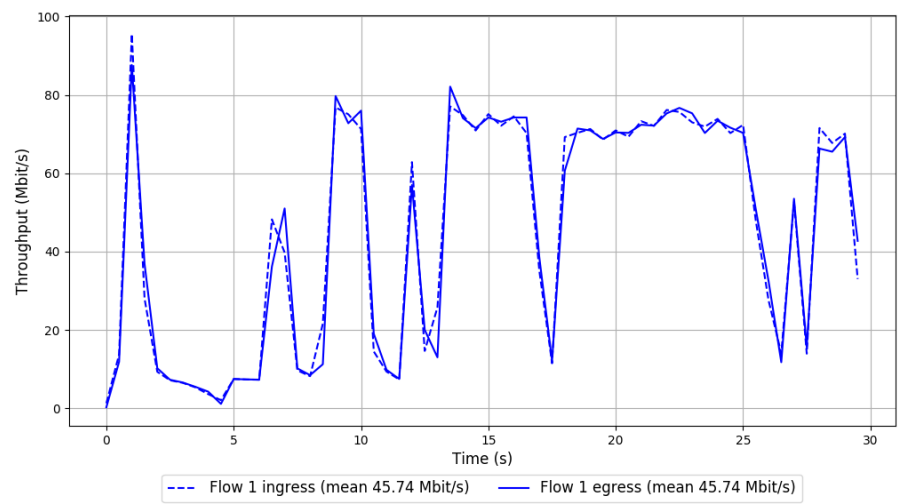


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-09-21 21:34:21
End at: 2017-09-21 21:34:51

# Below is generated by plot.py at 2017-09-22 00:28:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.74 Mbit/s
95th percentile per-packet one-way delay: 63.593 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 45.74 Mbit/s
95th percentile per-packet one-way delay: 63.593 ms
Loss rate: 0.01%
```

Run 1: Report of QUIC Cubic — Data Link

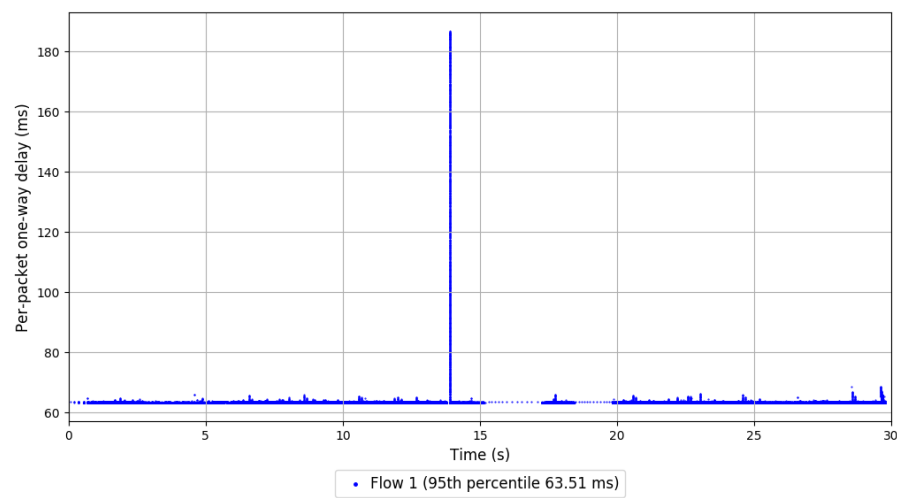
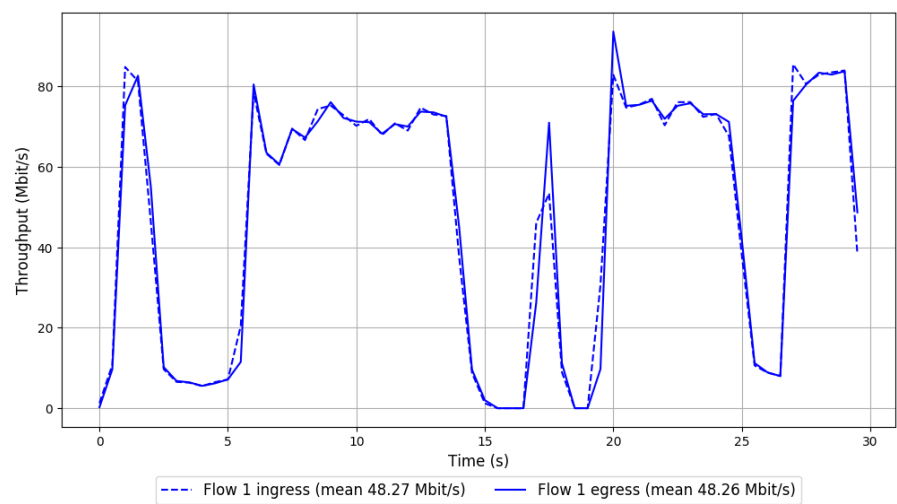


```
Run 2: Statistics of QUIC Cubic

Start at: 2017-09-21 21:45:05
End at: 2017-09-21 21:45:35

# Below is generated by plot.py at 2017-09-22 00:28:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.26 Mbit/s
95th percentile per-packet one-way delay: 63.506 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 48.26 Mbit/s
95th percentile per-packet one-way delay: 63.506 ms
Loss rate: 0.01%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-09-21 21:55:45

End at: 2017-09-21 21:56:15

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.81 Mbit/s

95th percentile per-packet one-way delay: 61.459 ms

Loss rate: 0.01%

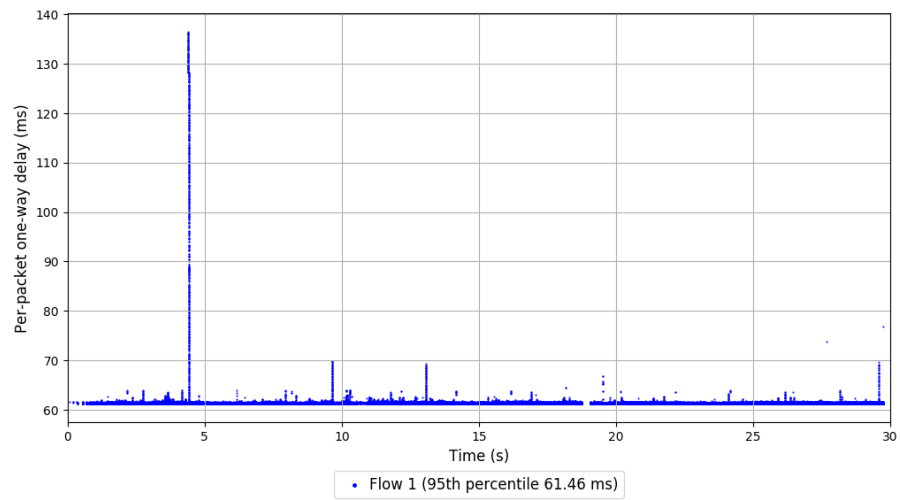
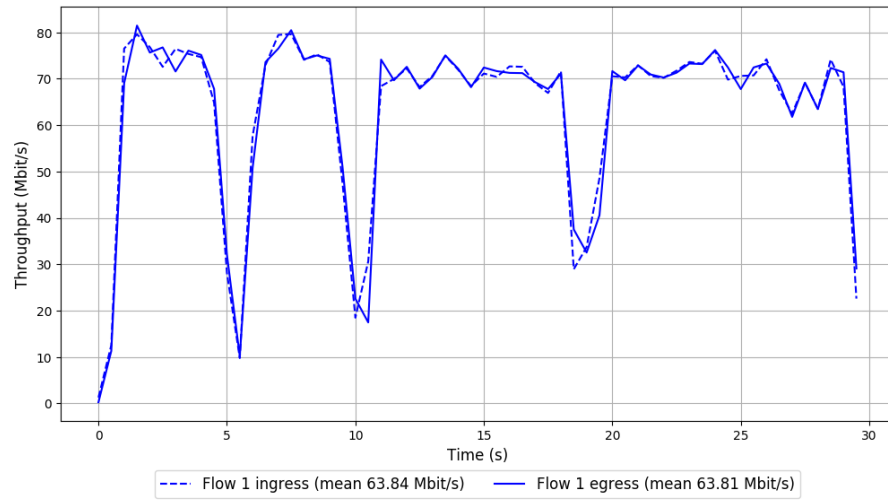
-- Flow 1:

Average throughput: 63.81 Mbit/s

95th percentile per-packet one-way delay: 61.459 ms

Loss rate: 0.01%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-09-21 22:06:12

End at: 2017-09-21 22:06:42

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.58 Mbit/s

95th percentile per-packet one-way delay: 63.485 ms

Loss rate: 0.00%

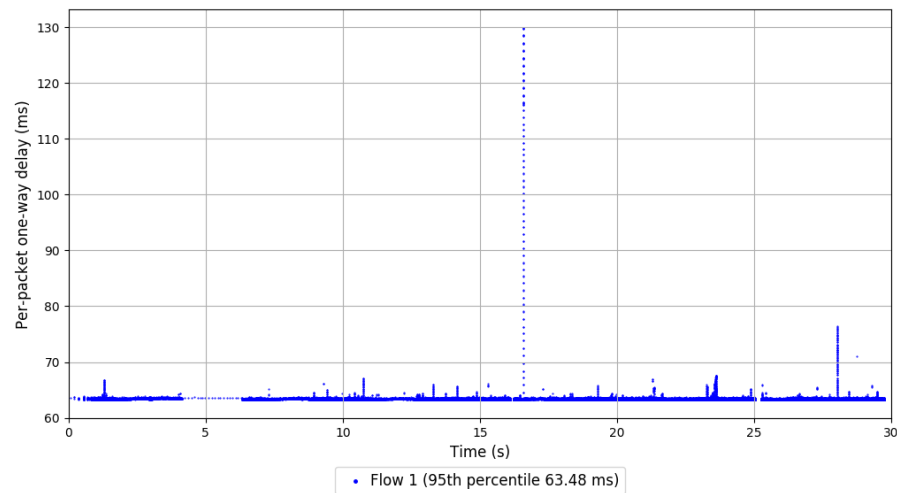
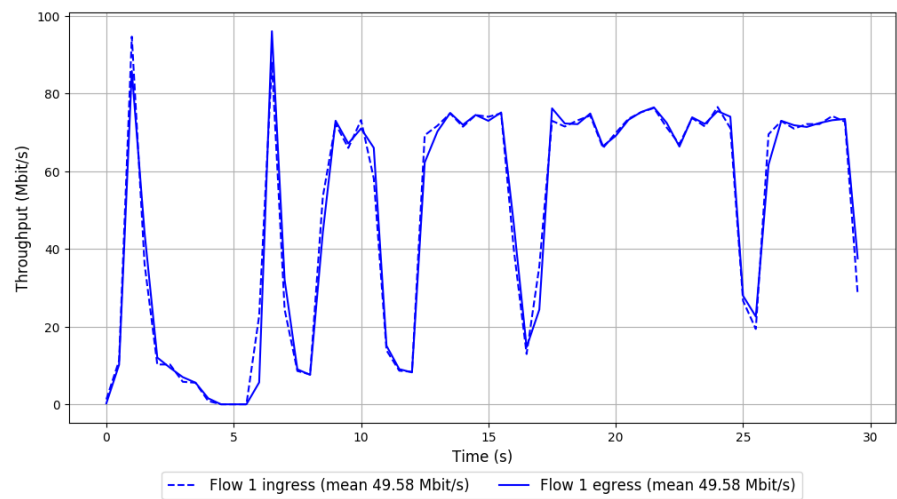
-- Flow 1:

Average throughput: 49.58 Mbit/s

95th percentile per-packet one-way delay: 63.485 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-09-21 22:16:53

End at: 2017-09-21 22:17:23

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.87 Mbit/s

95th percentile per-packet one-way delay: 63.599 ms

Loss rate: 0.01%

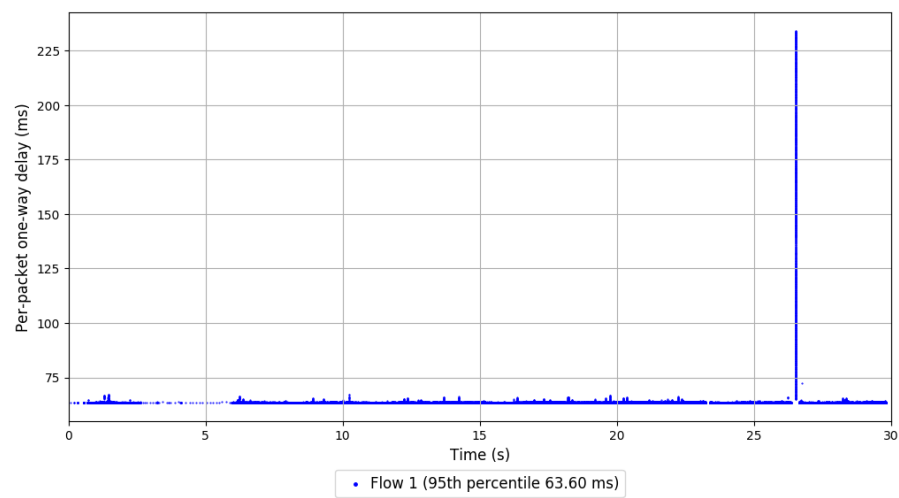
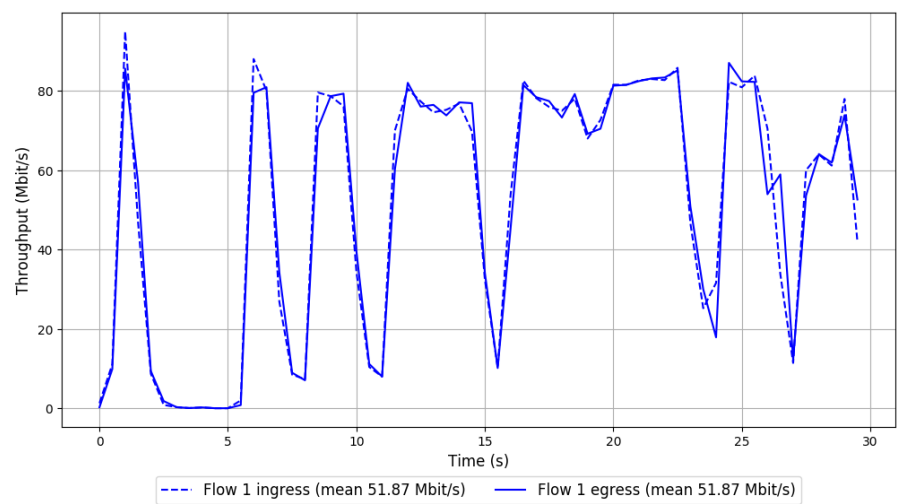
-- Flow 1:

Average throughput: 51.87 Mbit/s

95th percentile per-packet one-way delay: 63.599 ms

Loss rate: 0.01%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-09-21 22:27:39

End at: 2017-09-21 22:28:09

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.34 Mbit/s

95th percentile per-packet one-way delay: 63.576 ms

Loss rate: 0.00%

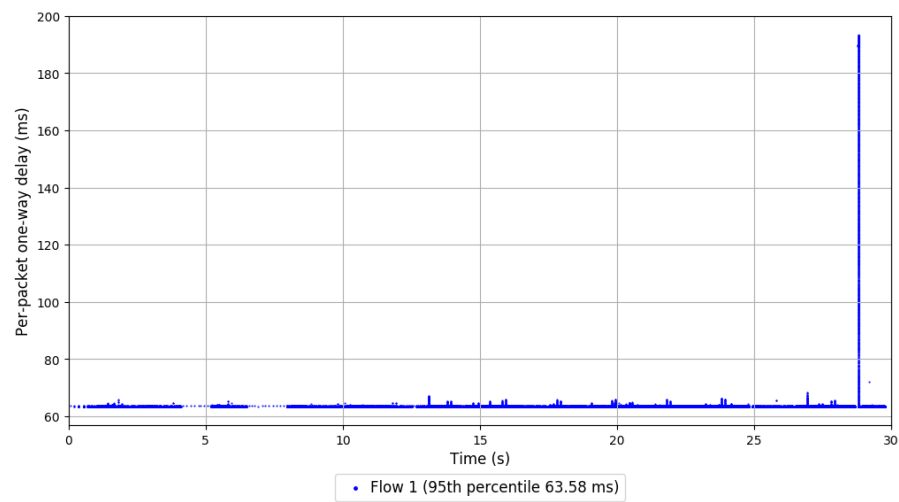
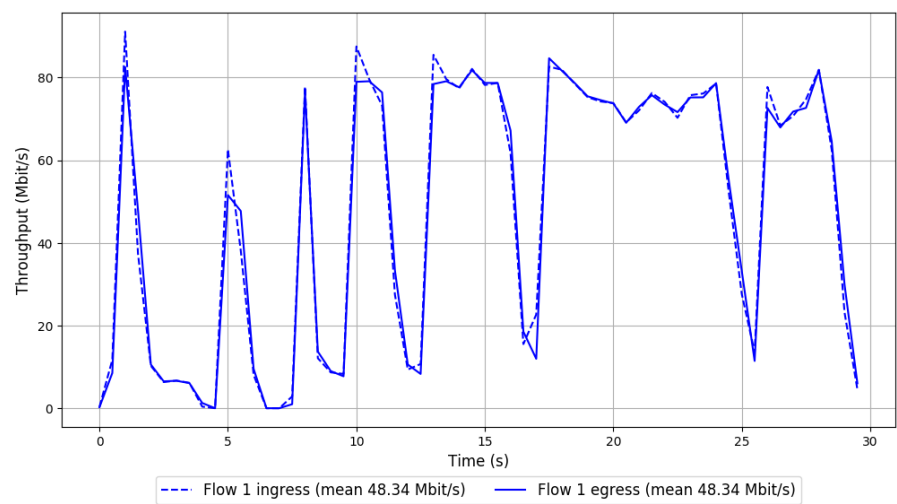
-- Flow 1:

Average throughput: 48.34 Mbit/s

95th percentile per-packet one-way delay: 63.576 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-09-21 22:38:12

End at: 2017-09-21 22:38:42

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.17 Mbit/s

95th percentile per-packet one-way delay: 63.478 ms

Loss rate: 0.00%

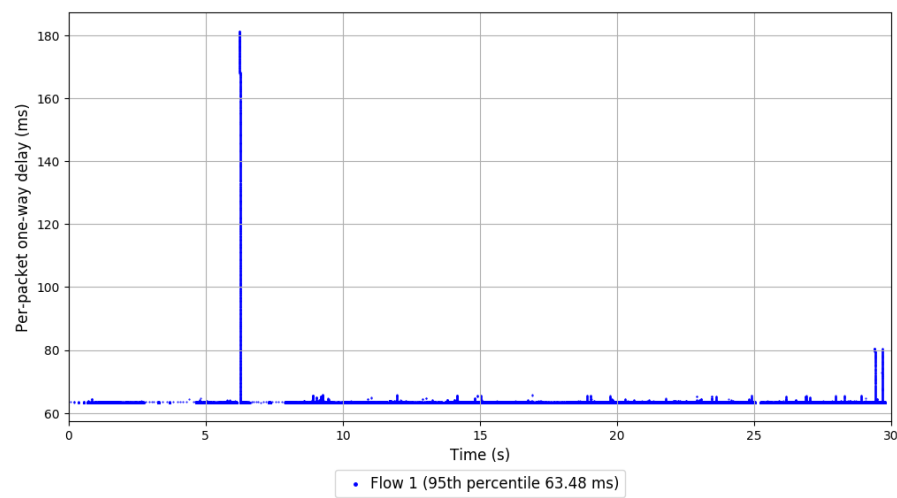
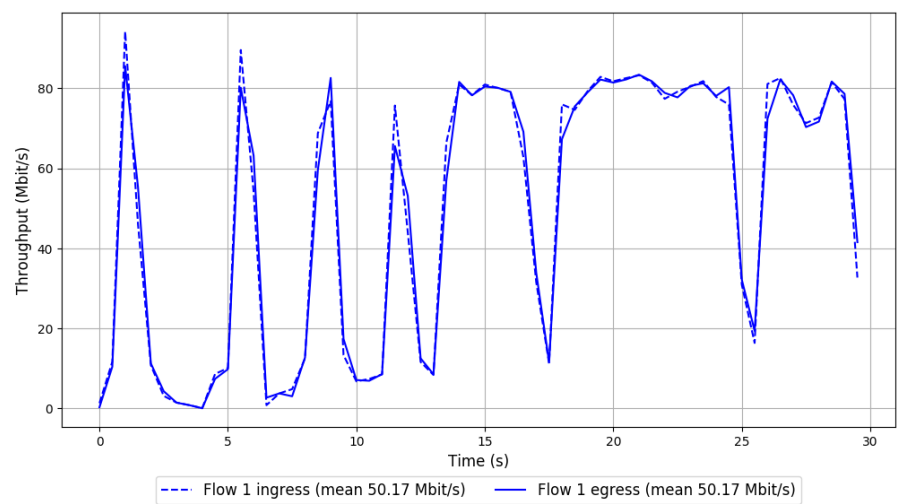
-- Flow 1:

Average throughput: 50.17 Mbit/s

95th percentile per-packet one-way delay: 63.478 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-09-21 22:48:53

End at: 2017-09-21 22:49:23

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.09 Mbit/s

95th percentile per-packet one-way delay: 61.321 ms

Loss rate: 0.00%

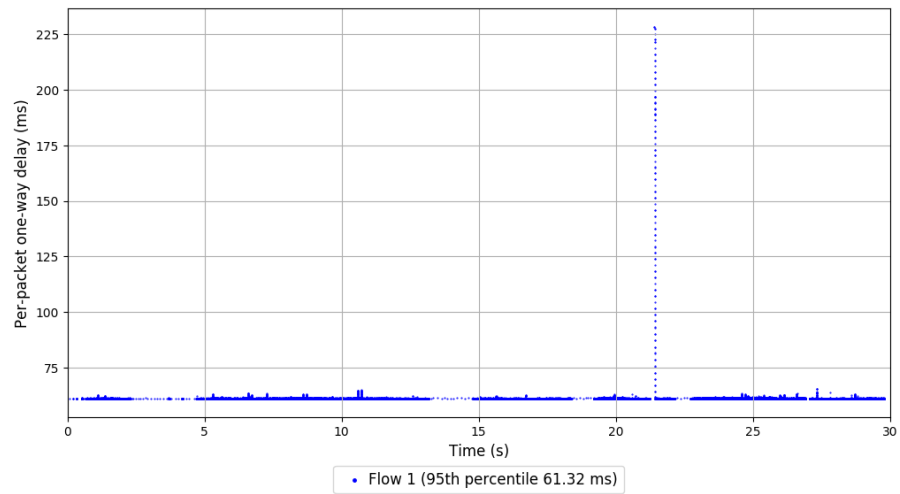
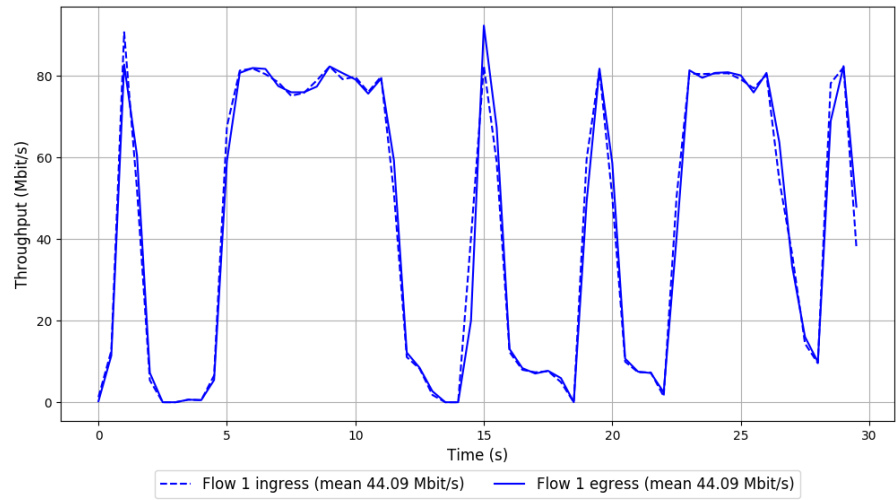
-- Flow 1:

Average throughput: 44.09 Mbit/s

95th percentile per-packet one-way delay: 61.321 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-09-21 22:59:21

End at: 2017-09-21 22:59:51

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.22 Mbit/s

95th percentile per-packet one-way delay: 63.370 ms

Loss rate: 0.00%

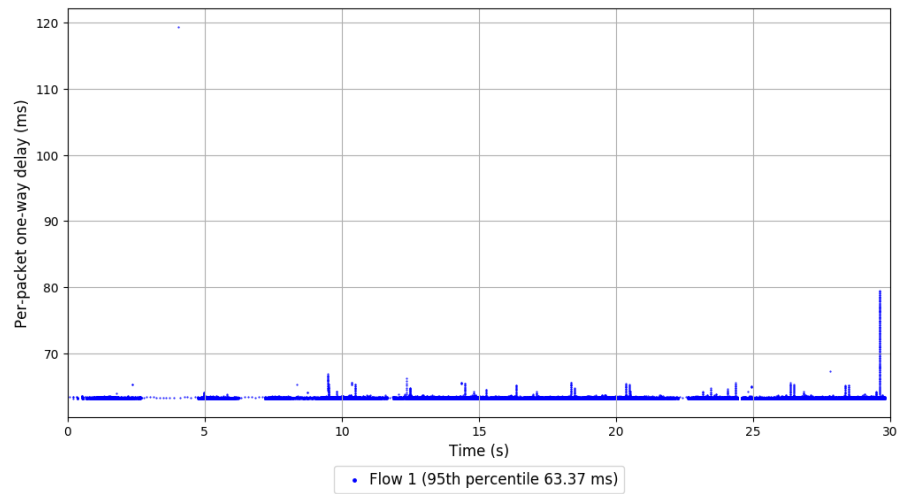
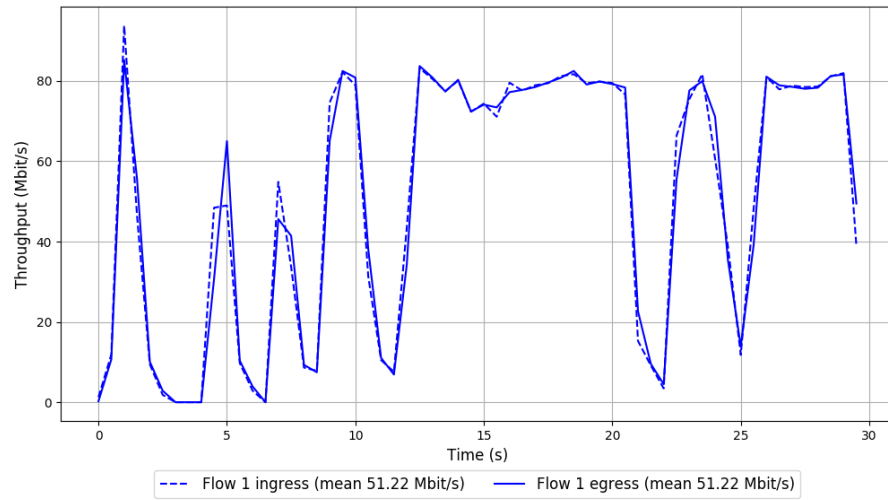
-- Flow 1:

Average throughput: 51.22 Mbit/s

95th percentile per-packet one-way delay: 63.370 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

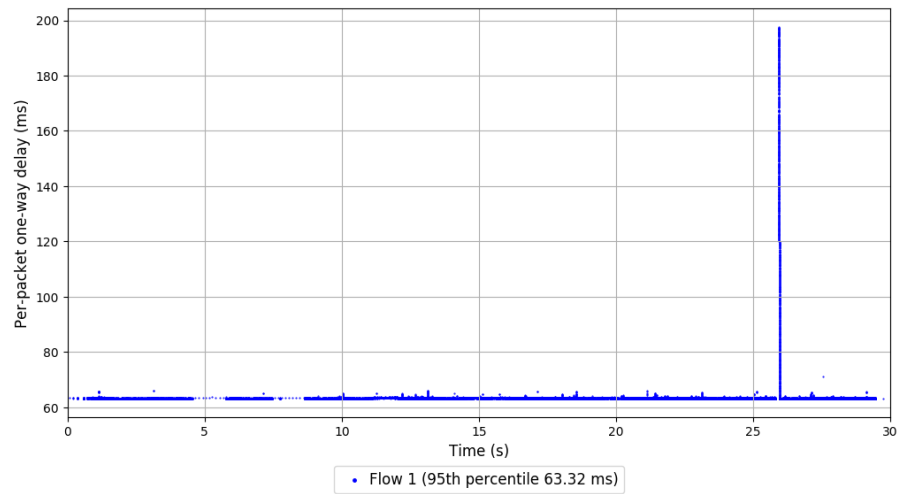
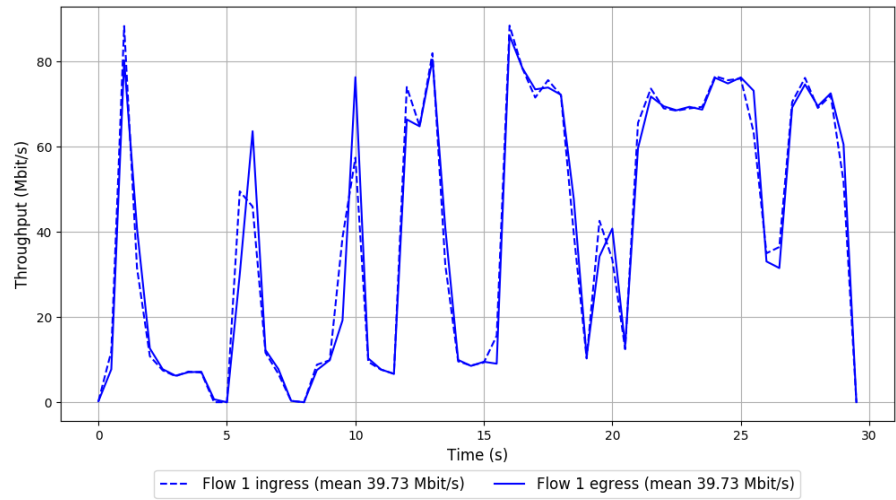


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-09-21 23:10:00
End at: 2017-09-21 23:10:30

# Below is generated by plot.py at 2017-09-22 00:28:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 39.73 Mbit/s
95th percentile per-packet one-way delay: 63.321 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 39.73 Mbit/s
95th percentile per-packet one-way delay: 63.321 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

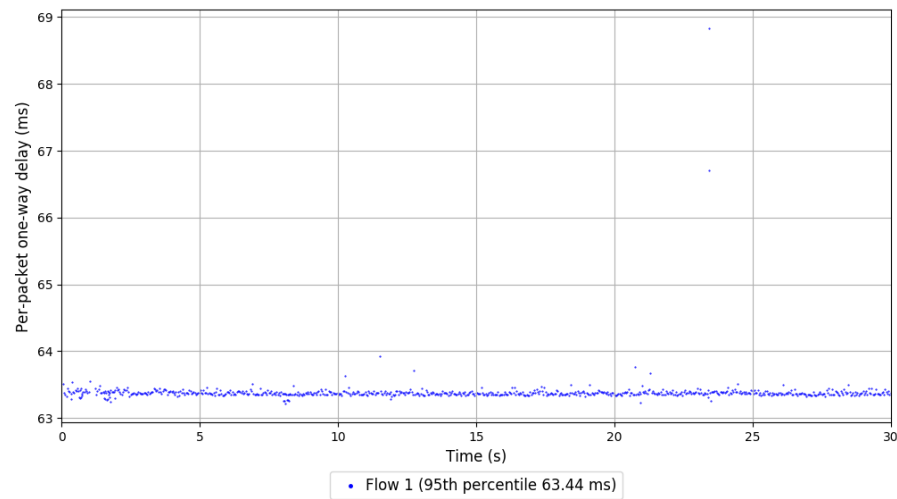
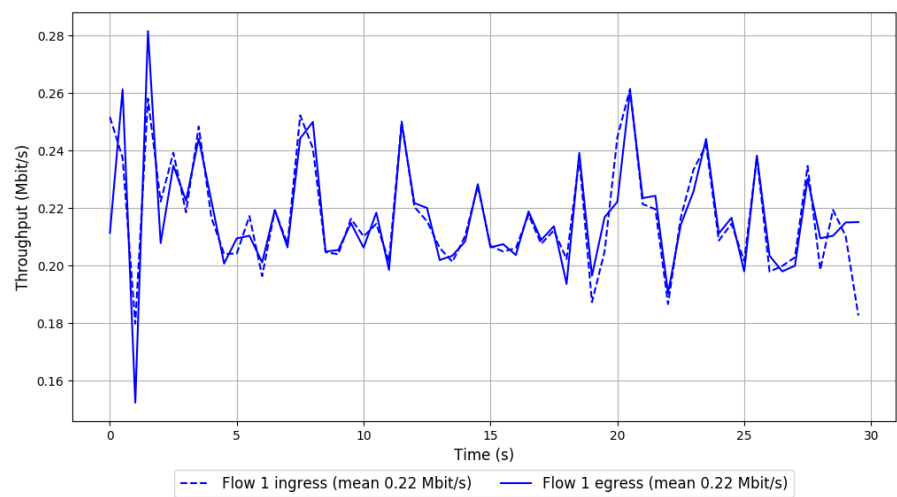


```
Run 1: Statistics of SCReAM

Start at: 2017-09-21 21:26:10
End at: 2017-09-21 21:26:40

# Below is generated by plot.py at 2017-09-22 00:28:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.442 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.442 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

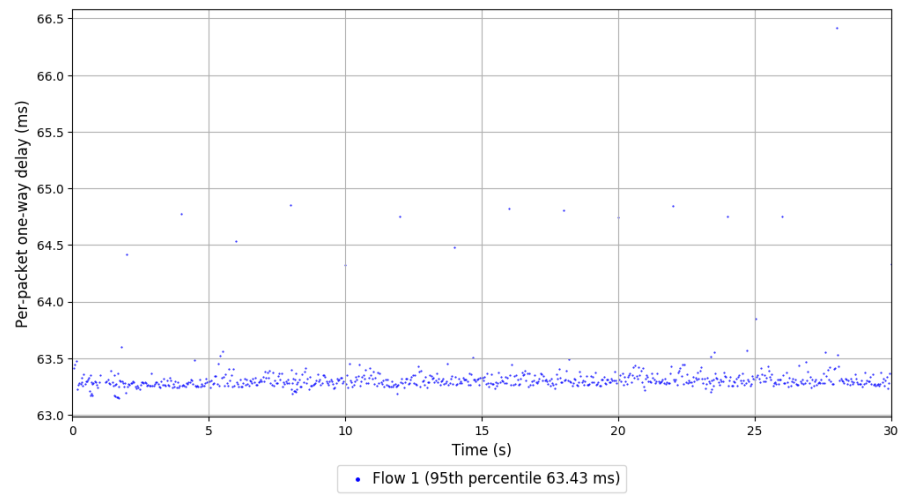
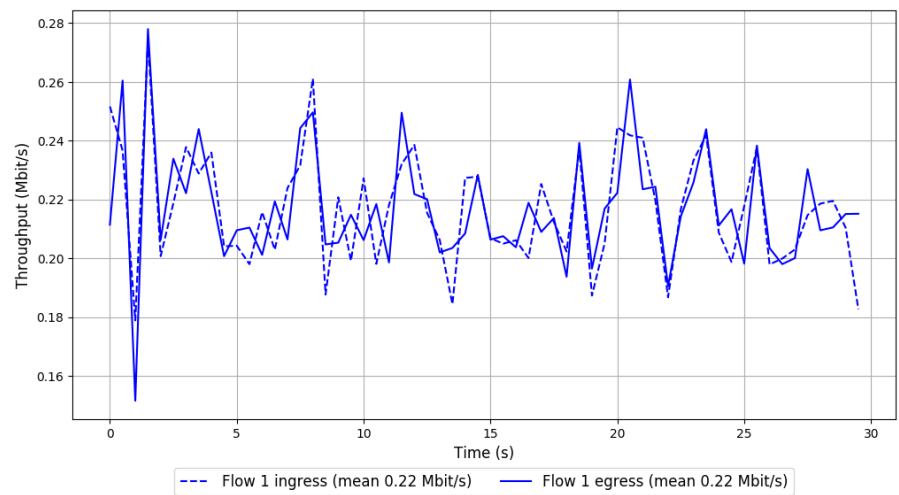


```
Run 2: Statistics of SCReAM

Start at: 2017-09-21 21:37:05
End at: 2017-09-21 21:37:36

# Below is generated by plot.py at 2017-09-22 00:28:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.434 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.434 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-09-21 21:47:41

End at: 2017-09-21 21:48:11

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.768 ms

Loss rate: 0.00%

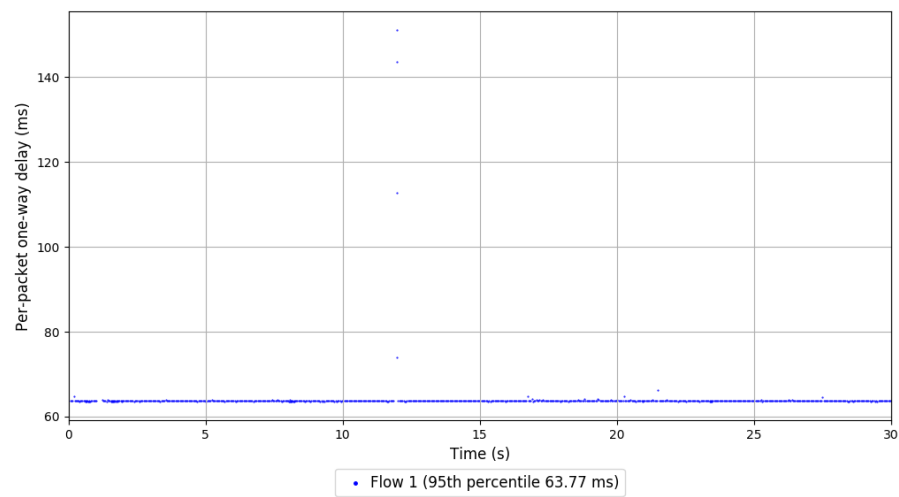
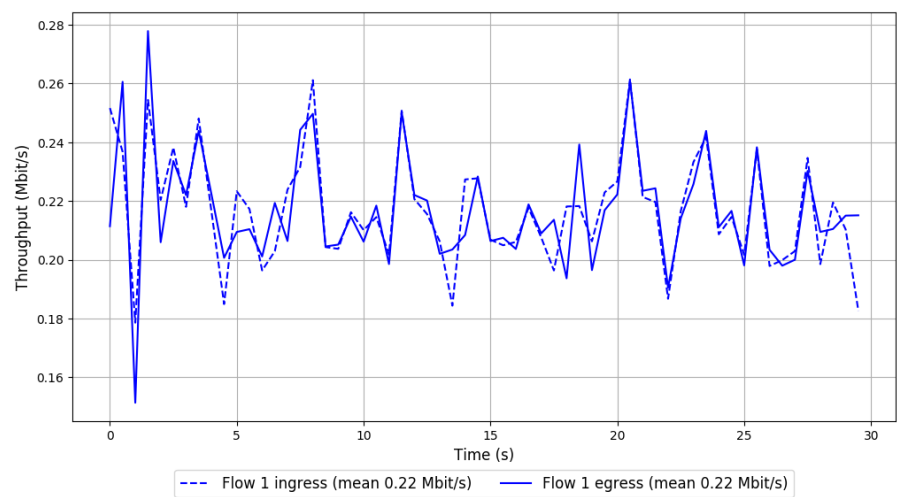
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.768 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

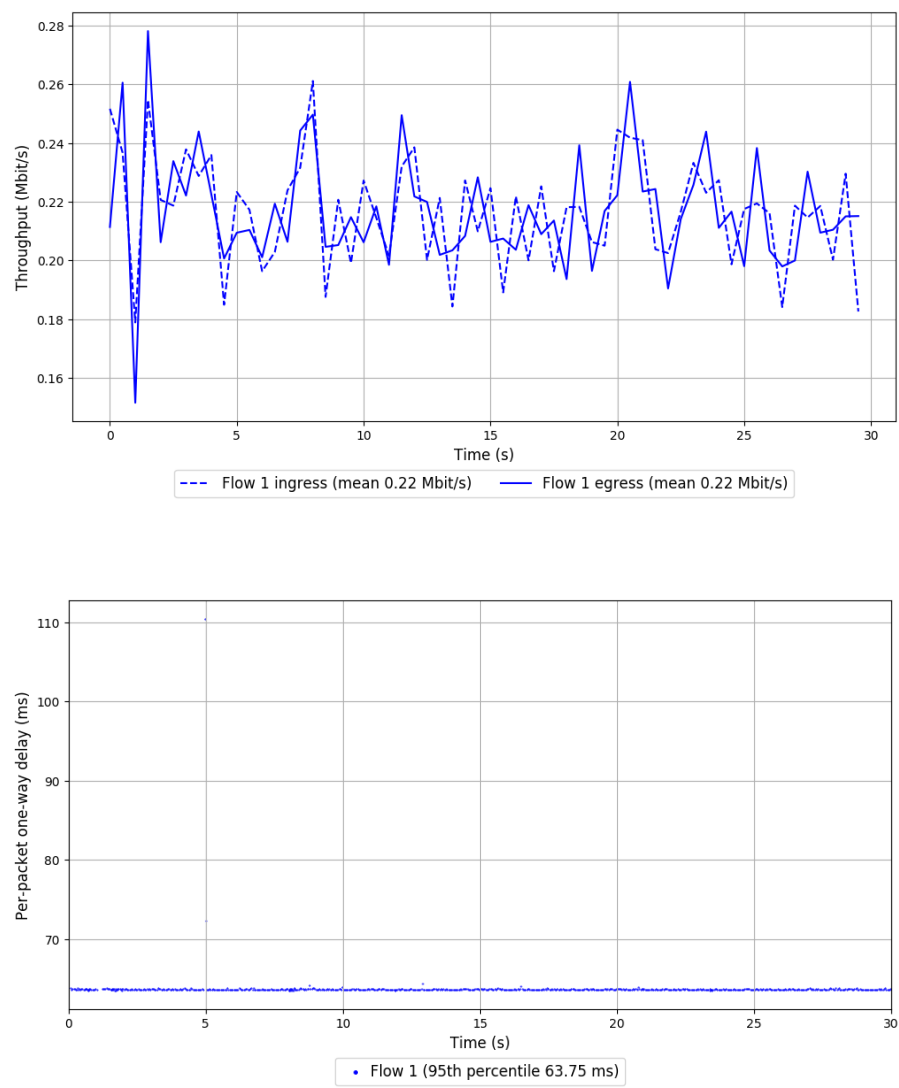


```
Run 4: Statistics of SCReAM

Start at: 2017-09-21 21:58:11
End at: 2017-09-21 21:58:41

# Below is generated by plot.py at 2017-09-22 00:28:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.751 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.751 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-09-21 22:08:50

End at: 2017-09-21 22:09:20

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.636 ms

Loss rate: 0.00%

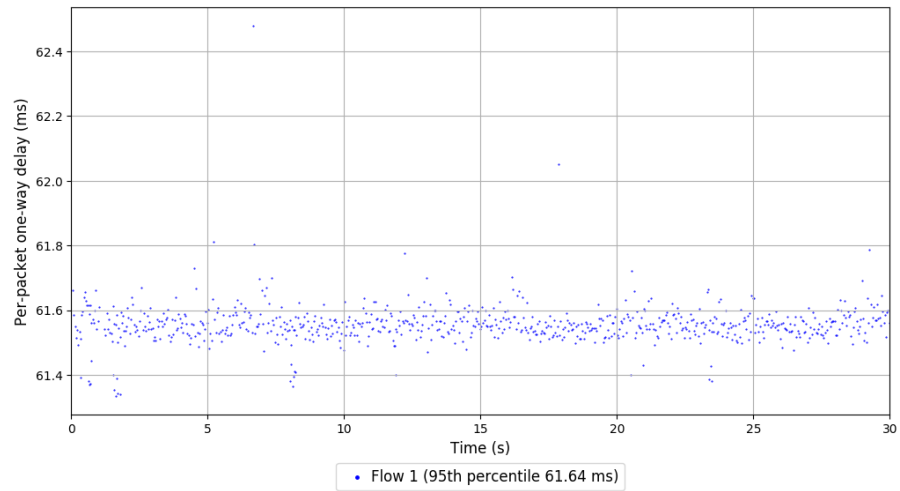
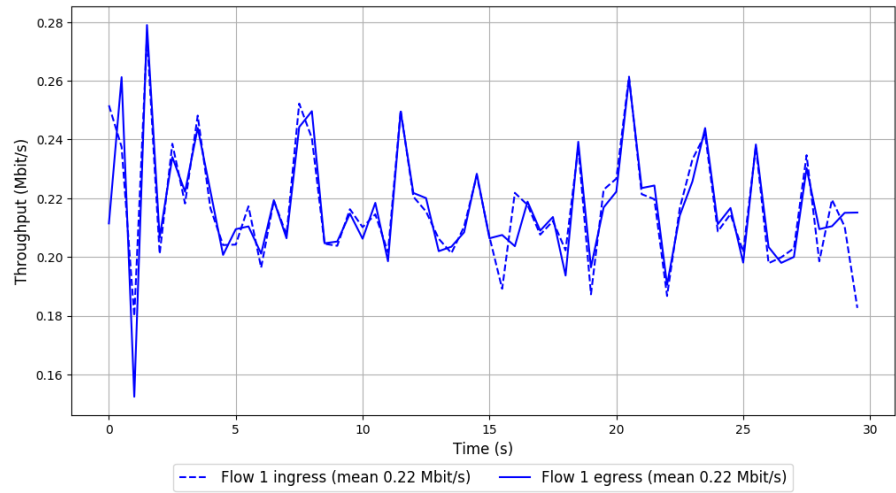
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.636 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-09-21 22:19:33

End at: 2017-09-21 22:20:03

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.439 ms

Loss rate: 0.00%

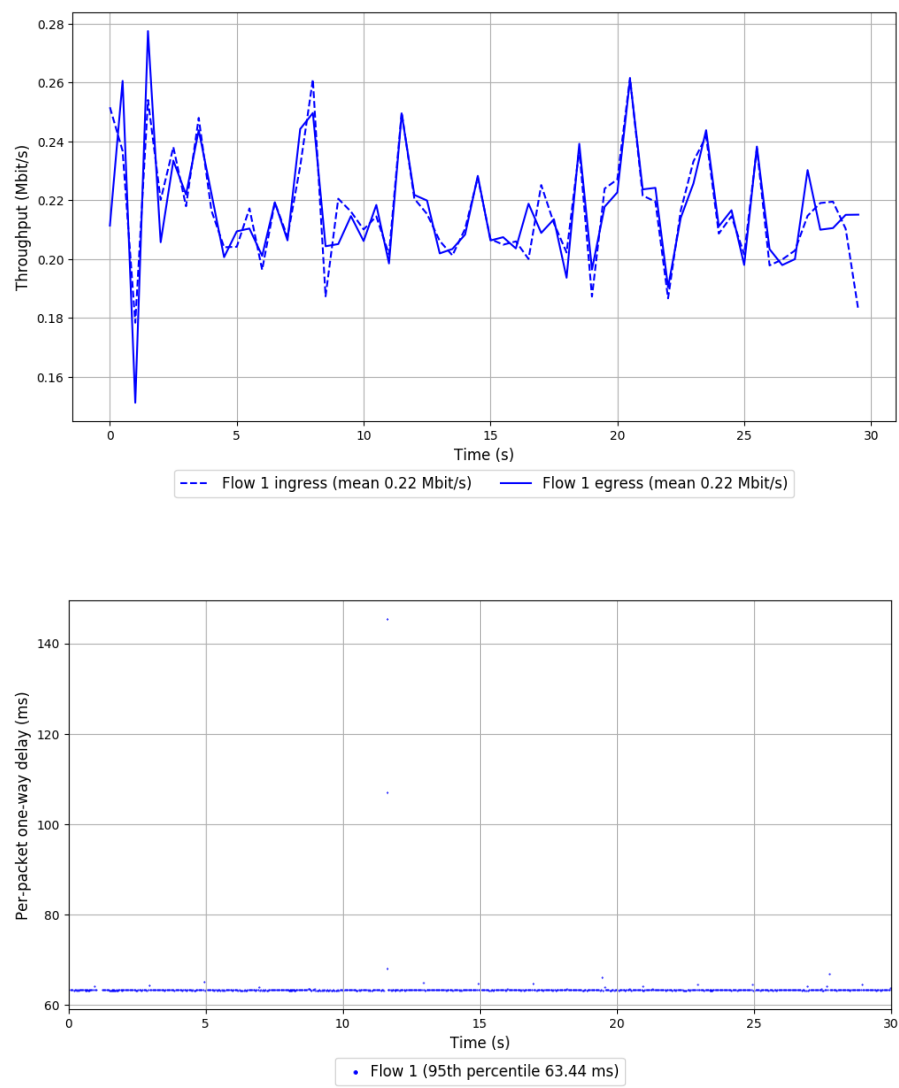
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.439 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

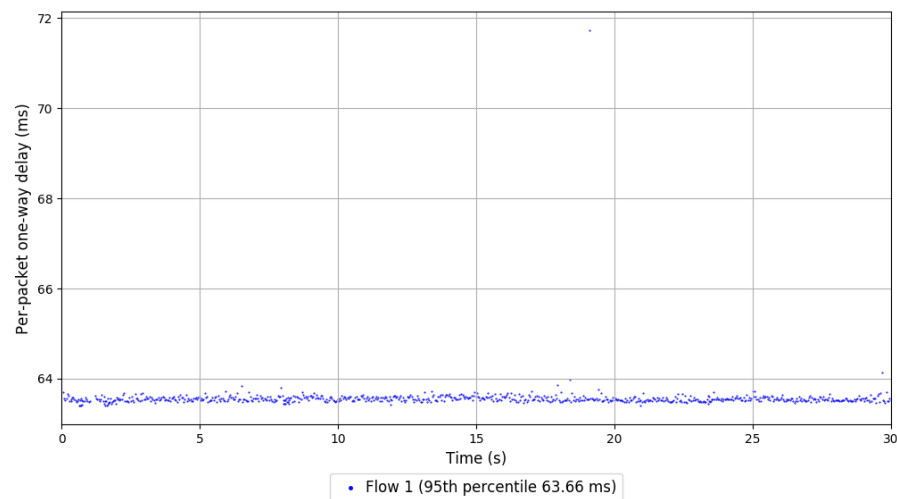
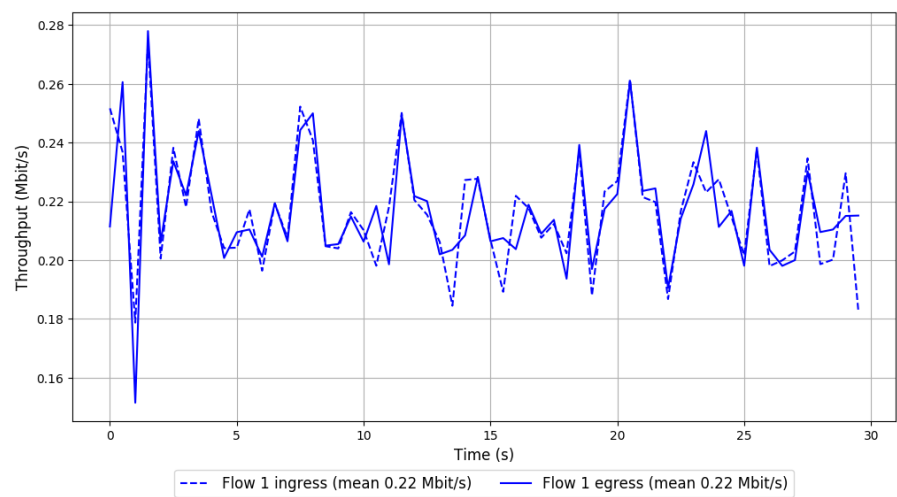


```
Run 7: Statistics of SCReAM

Start at: 2017-09-21 22:30:16
End at: 2017-09-21 22:30:46

# Below is generated by plot.py at 2017-09-22 00:28:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.656 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.656 ms
Loss rate: 0.00%
```

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-09-21 22:40:52

End at: 2017-09-21 22:41:22

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.584 ms

Loss rate: 0.00%

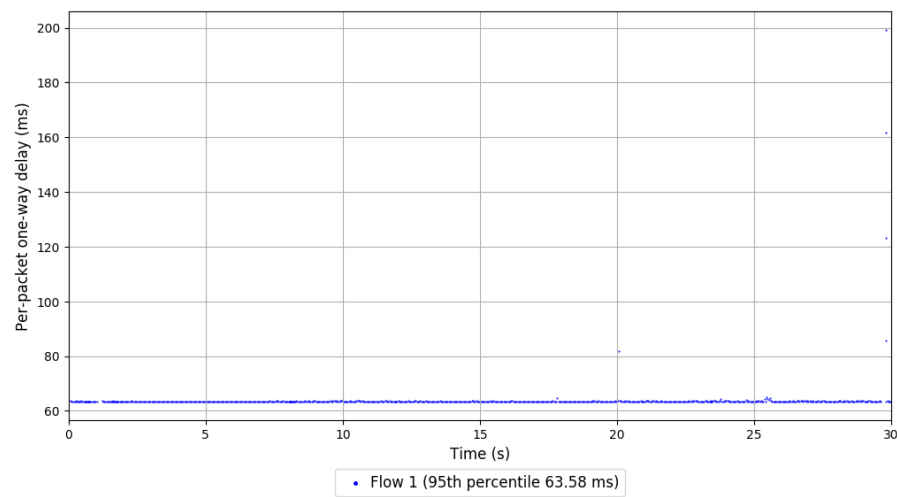
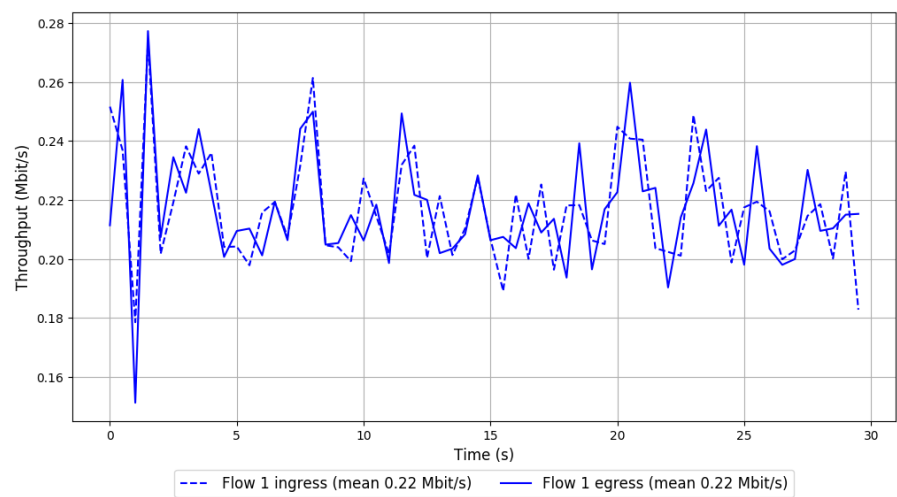
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.584 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-09-21 22:51:23

End at: 2017-09-21 22:51:53

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.479 ms

Loss rate: 0.00%

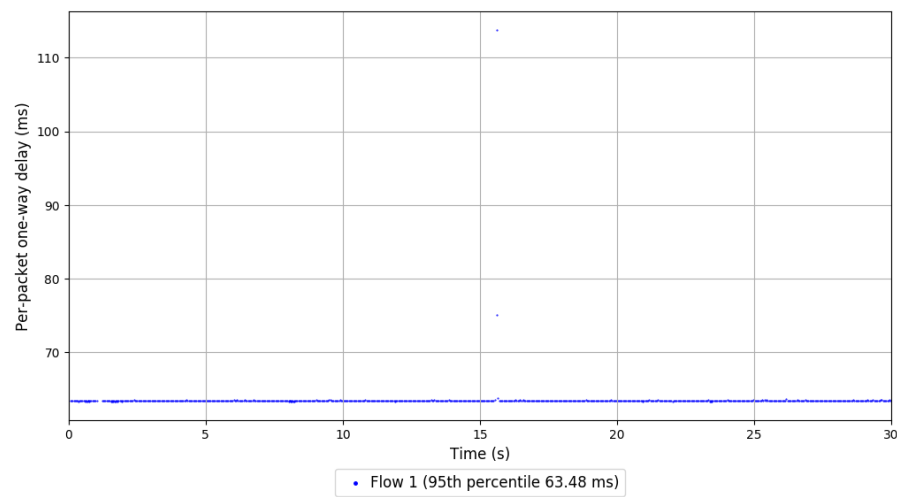
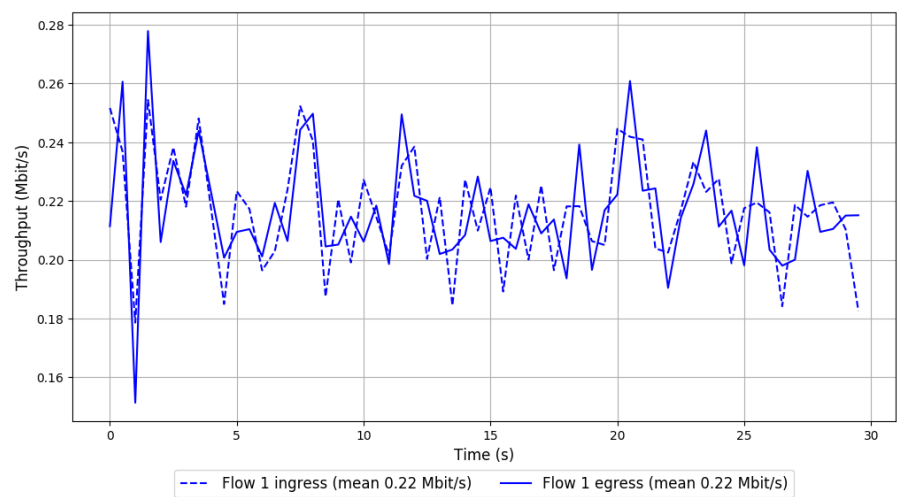
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.479 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

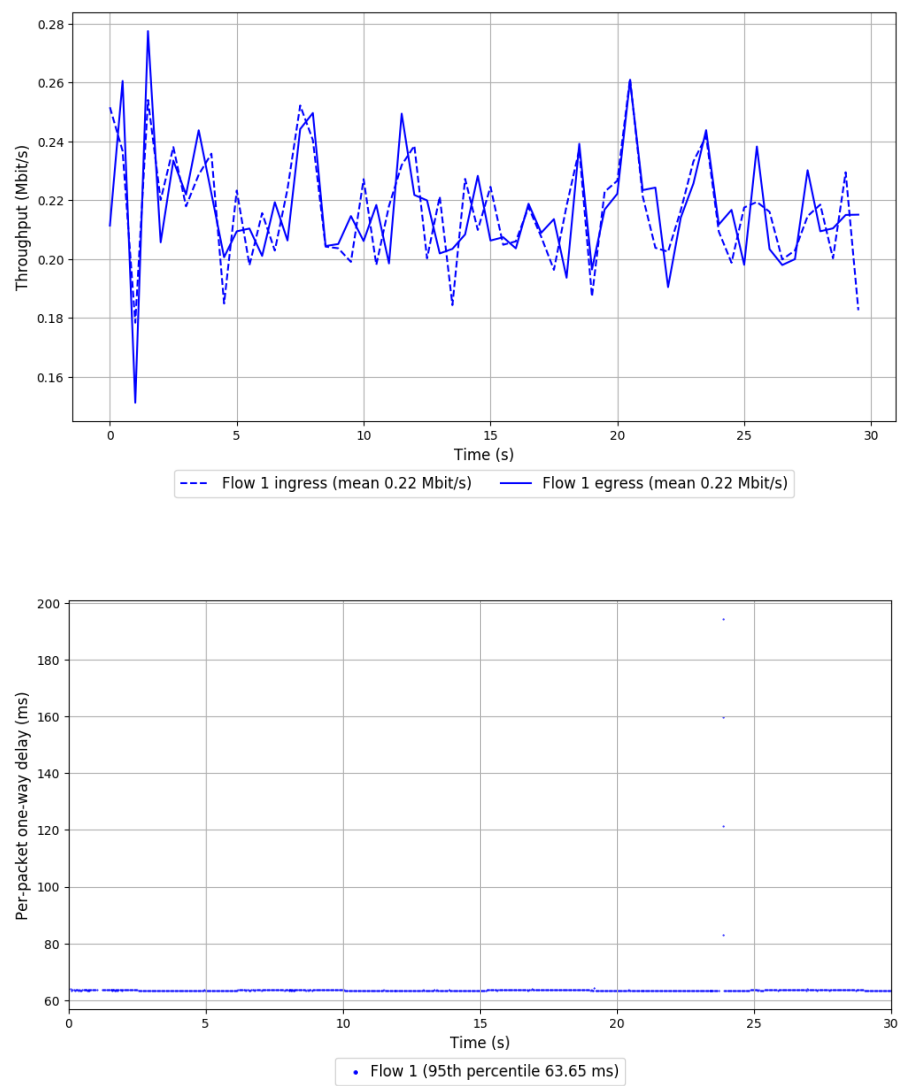


```
Run 10: Statistics of SReAM

Start at: 2017-09-21 23:01:58
End at: 2017-09-21 23:02:28

# Below is generated by plot.py at 2017-09-22 00:28:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.653 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.653 ms
Loss rate: 0.00%
```

Run 10: Report of SCRaM — Data Link

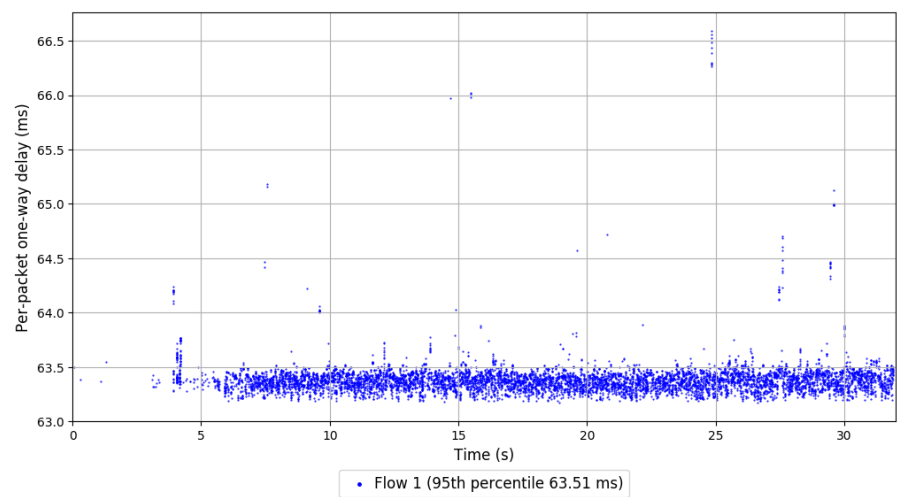
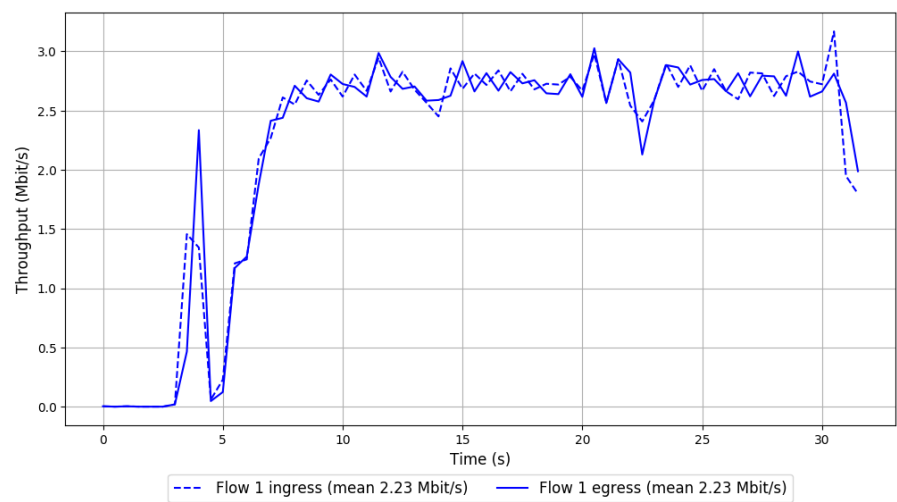


```
Run 1: Statistics of WebRTC media

Start at: 2017-09-21 21:29:38
End at: 2017-09-21 21:30:08

# Below is generated by plot.py at 2017-09-22 00:28:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 63.510 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 63.510 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

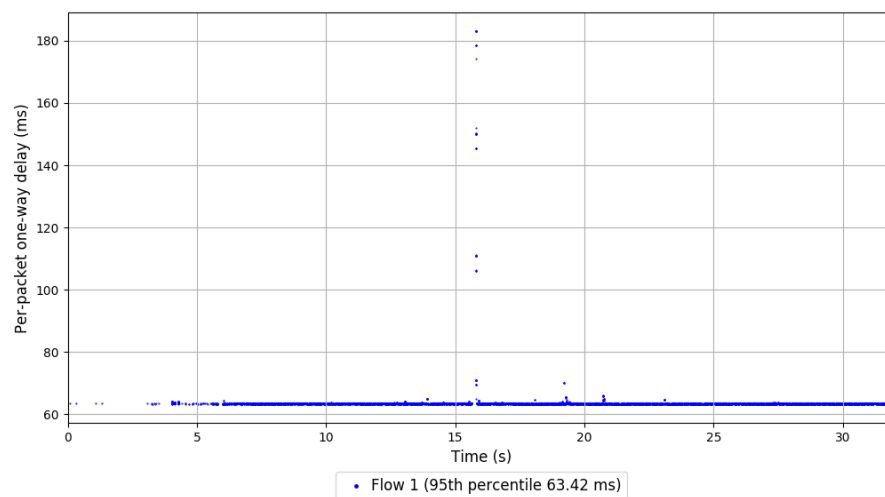
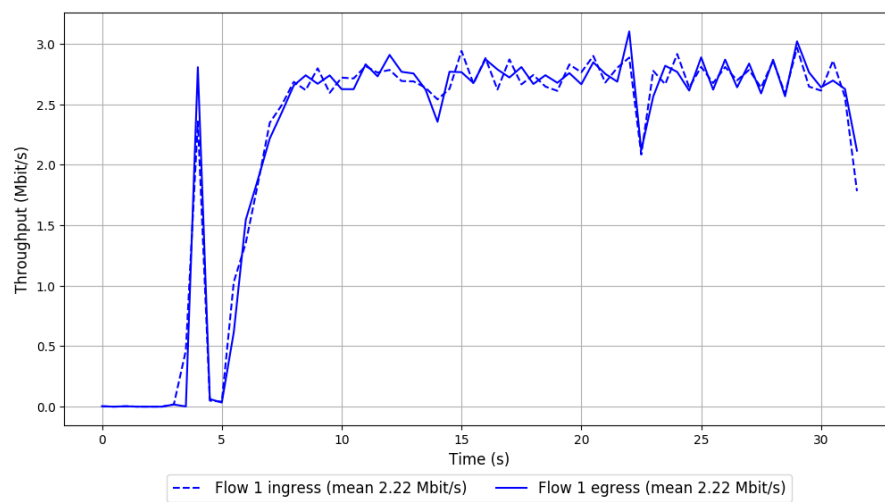


```
Run 2: Statistics of WebRTC media

Start at: 2017-09-21 21:40:34
End at: 2017-09-21 21:41:04

# Below is generated by plot.py at 2017-09-22 00:28:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 63.424 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 63.424 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-09-21 21:51:10

End at: 2017-09-21 21:51:40

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 63.917 ms

Loss rate: 0.00%

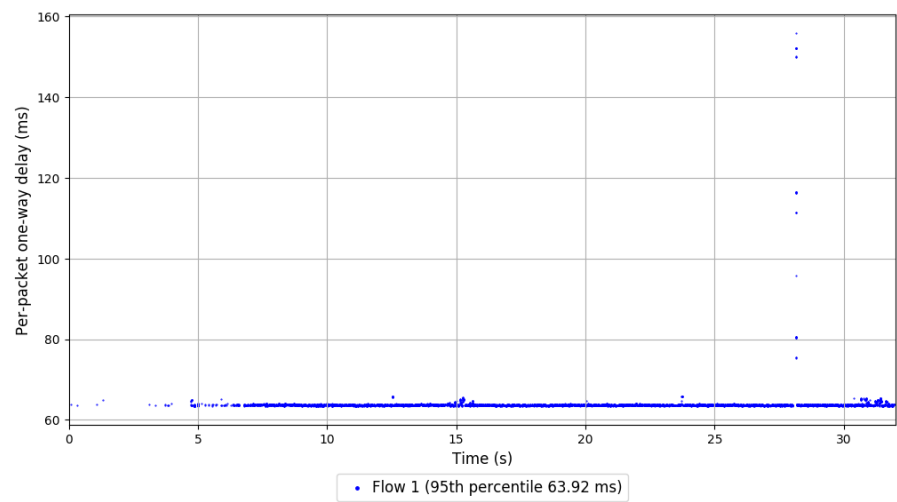
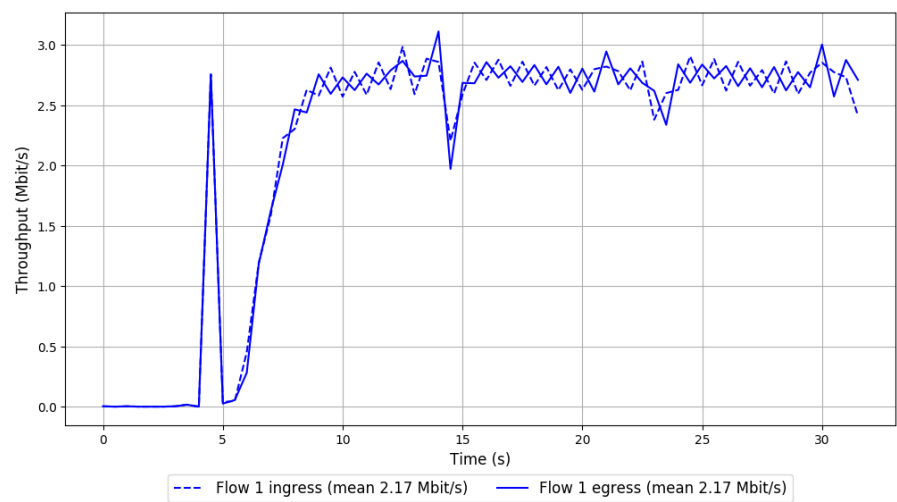
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 63.917 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-09-21 22:01:36

End at: 2017-09-21 22:02:06

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 63.612 ms

Loss rate: 0.00%

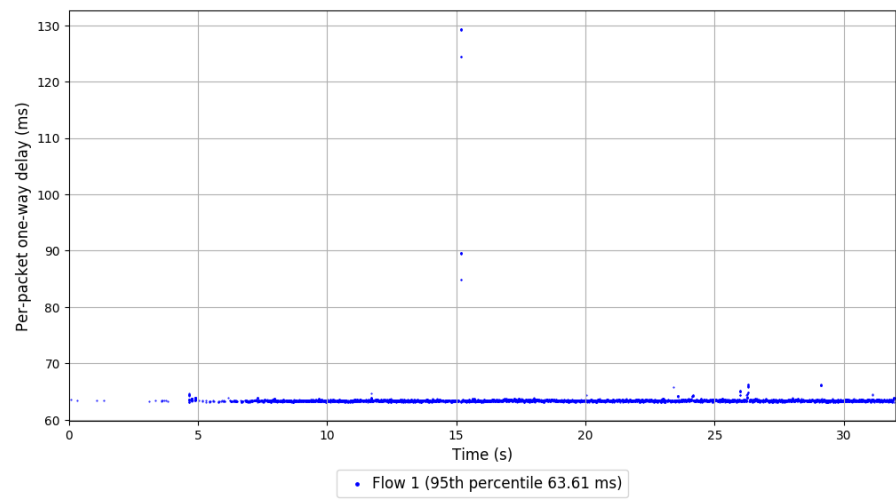
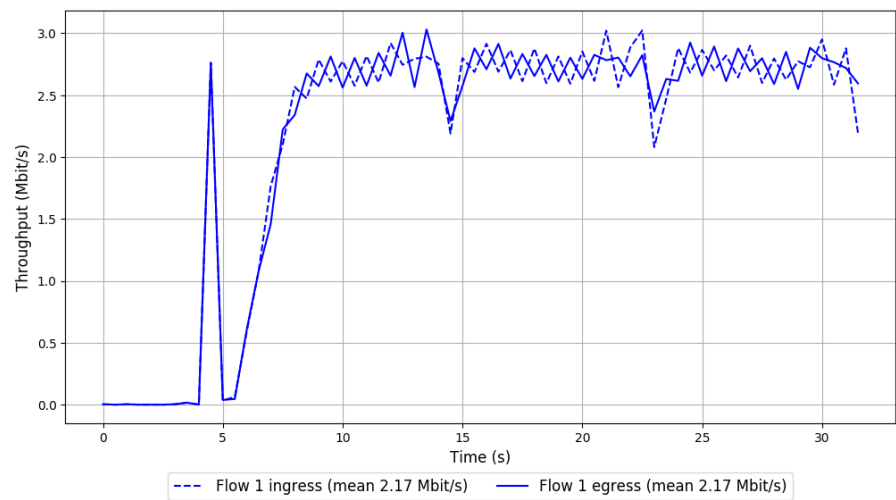
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 63.612 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-09-21 22:12:18

End at: 2017-09-21 22:12:48

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 63.380 ms

Loss rate: 0.00%

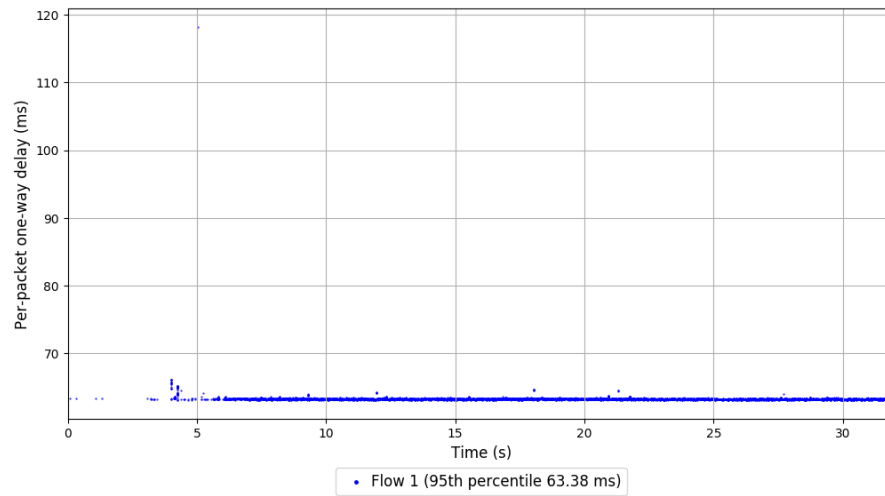
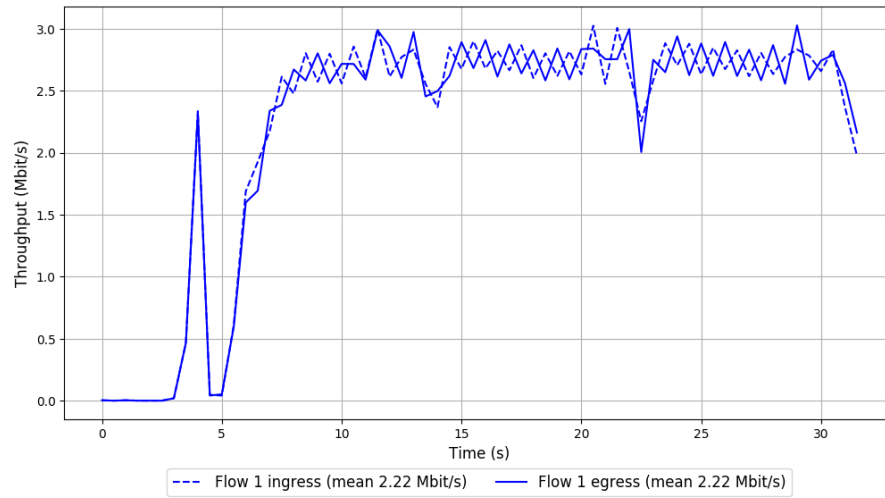
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 63.380 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-09-21 22:23:01

End at: 2017-09-21 22:23:31

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.592 ms

Loss rate: 0.01%

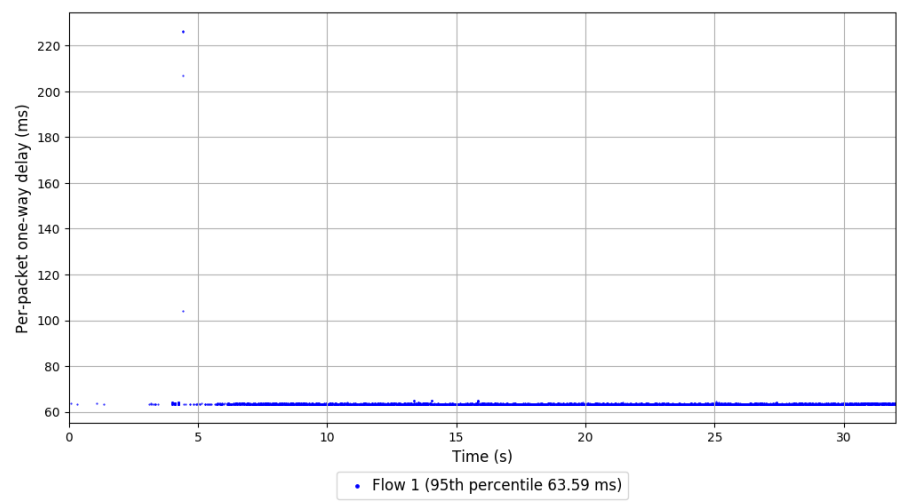
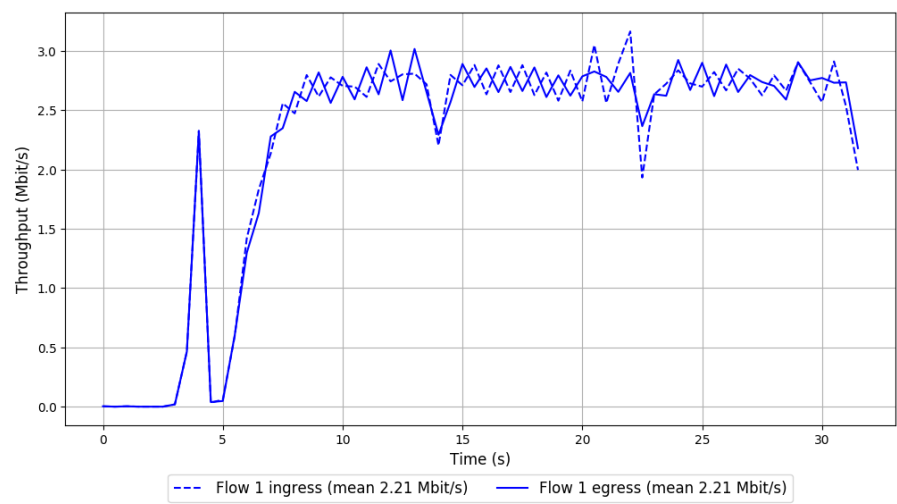
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.592 ms

Loss rate: 0.01%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-09-21 22:33:36

End at: 2017-09-21 22:34:06

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 61.582 ms

Loss rate: 0.00%

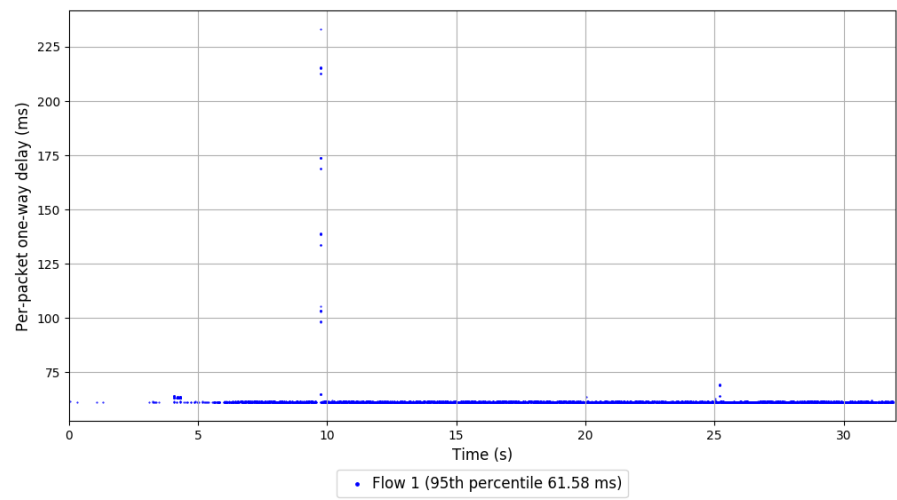
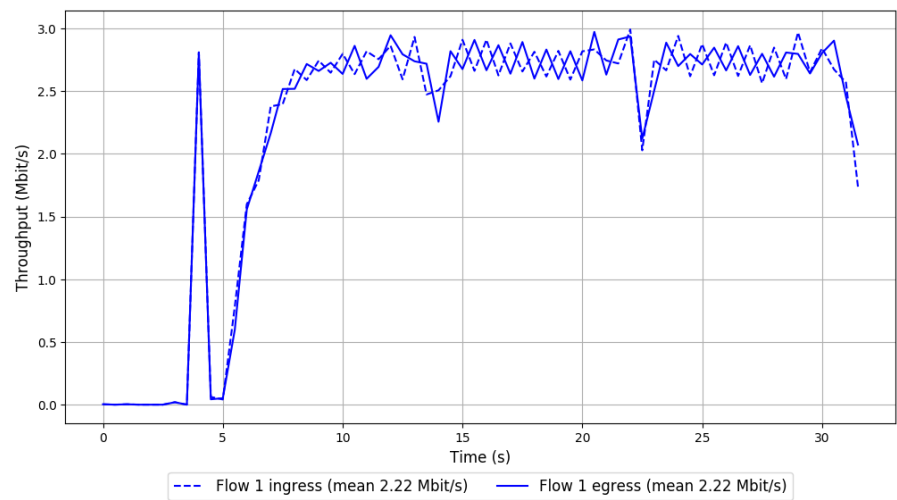
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 61.582 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-09-21 22:44:19

End at: 2017-09-21 22:44:49

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 63.692 ms

Loss rate: 0.09%

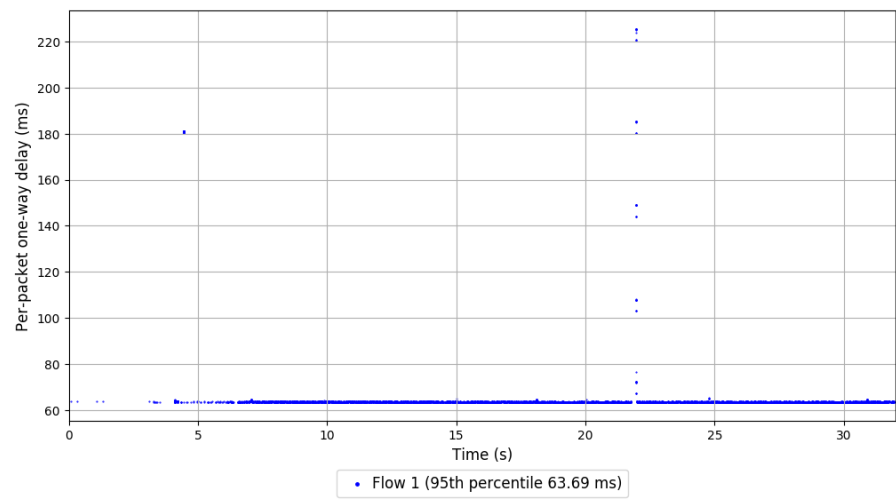
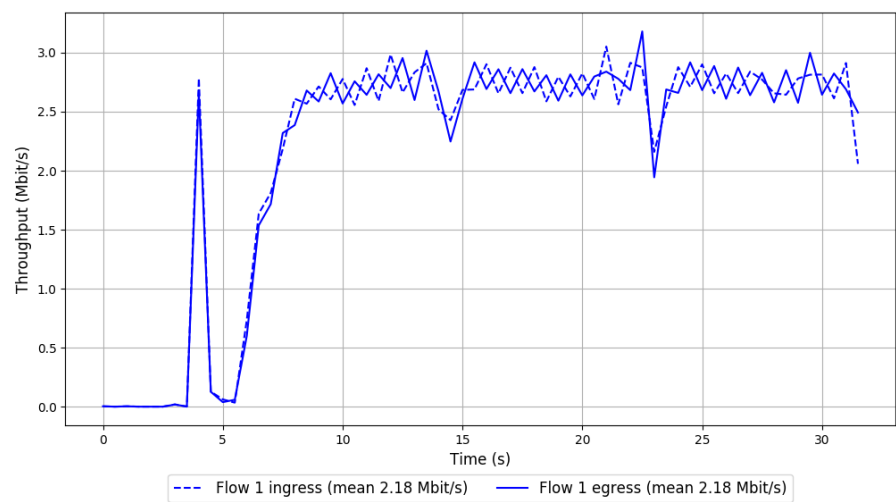
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 63.692 ms

Loss rate: 0.09%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-09-21 22:54:49

End at: 2017-09-21 22:55:19

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 61.439 ms

Loss rate: 0.00%

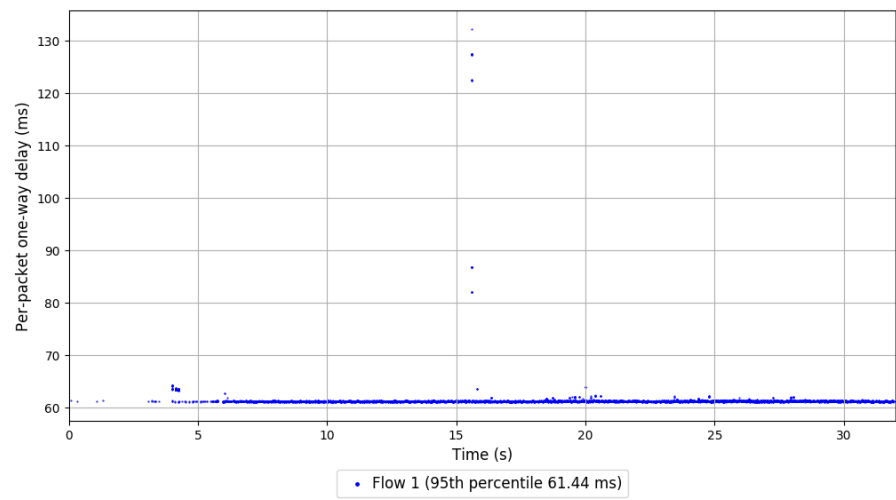
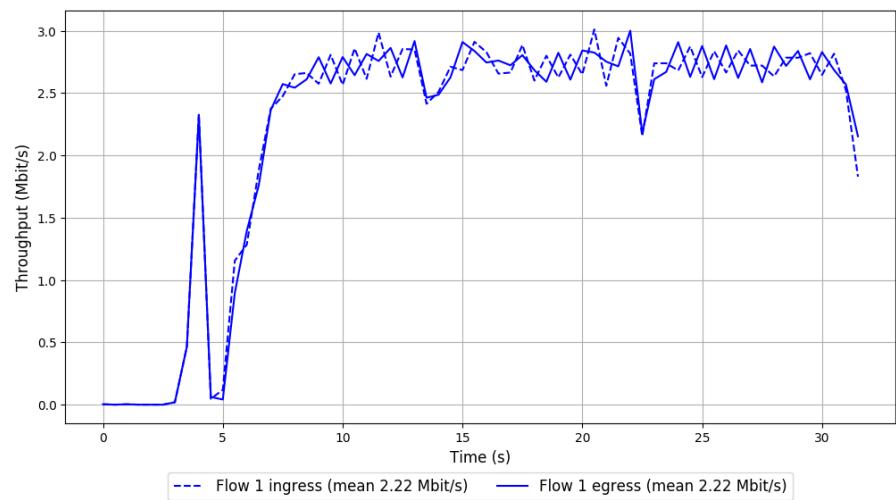
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 61.439 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-09-21 23:05:24

End at: 2017-09-21 23:05:54

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 63.752 ms

Loss rate: 0.00%

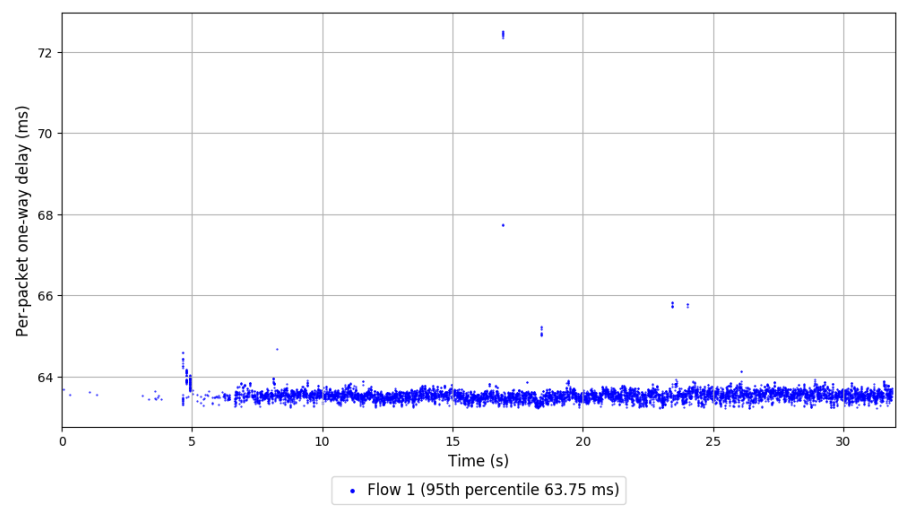
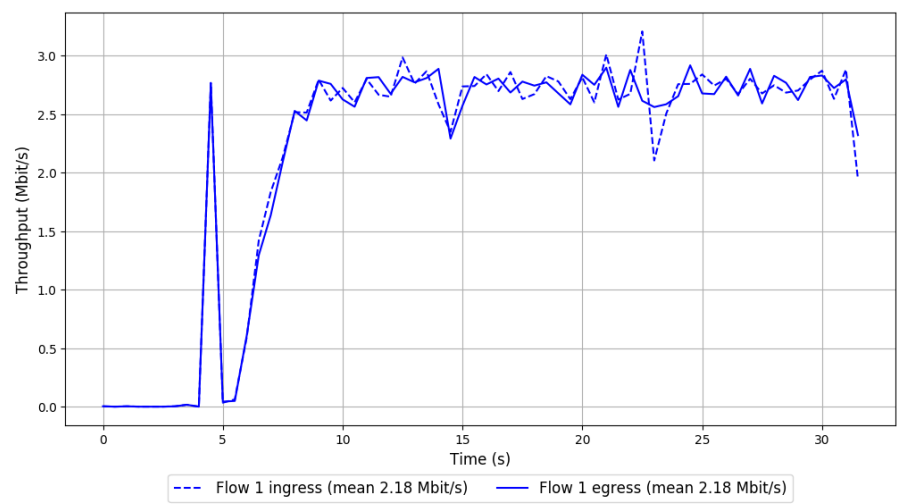
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 63.752 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-09-21 21:27:33

End at: 2017-09-21 21:28:03

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.43 Mbit/s

95th percentile per-packet one-way delay: 64.327 ms

Loss rate: 0.09%

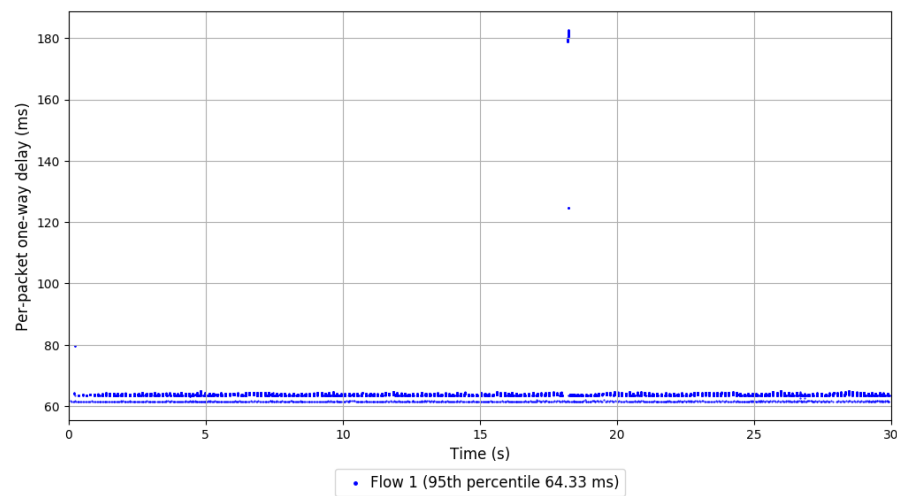
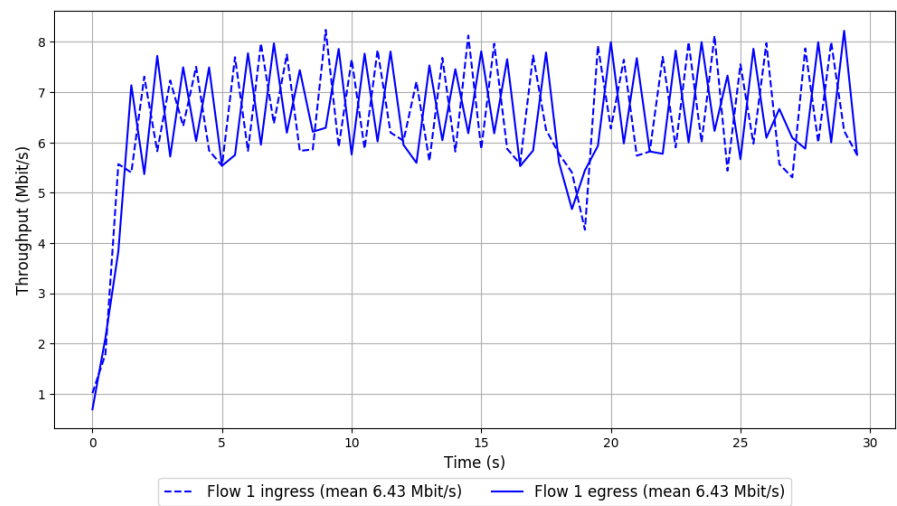
-- Flow 1:

Average throughput: 6.43 Mbit/s

95th percentile per-packet one-way delay: 64.327 ms

Loss rate: 0.09%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-09-21 21:38:27

End at: 2017-09-21 21:38:57

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.44 Mbit/s

95th percentile per-packet one-way delay: 64.262 ms

Loss rate: 0.00%

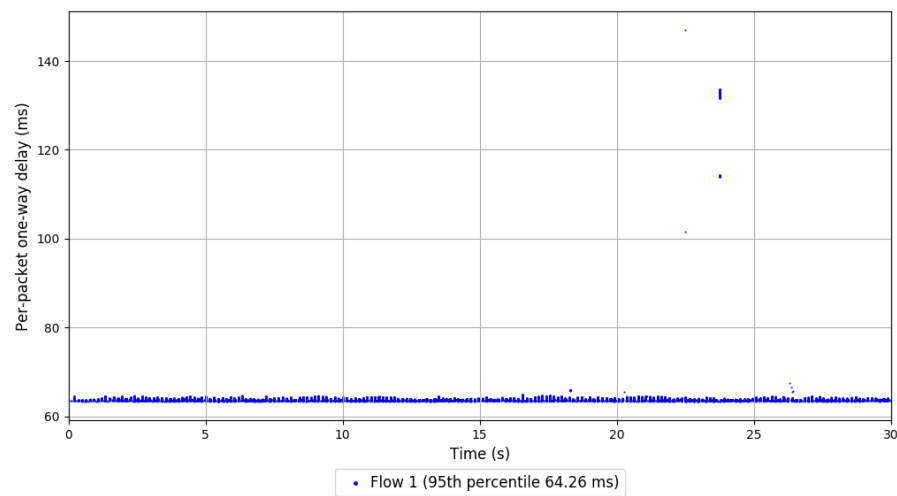
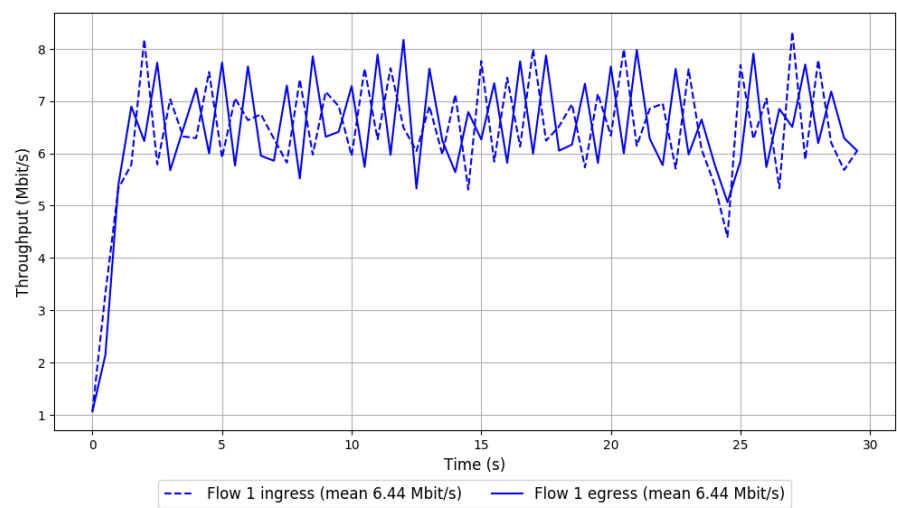
-- Flow 1:

Average throughput: 6.44 Mbit/s

95th percentile per-packet one-way delay: 64.262 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-09-21 21:49:02

End at: 2017-09-21 21:49:32

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 64.481 ms

Loss rate: 0.23%

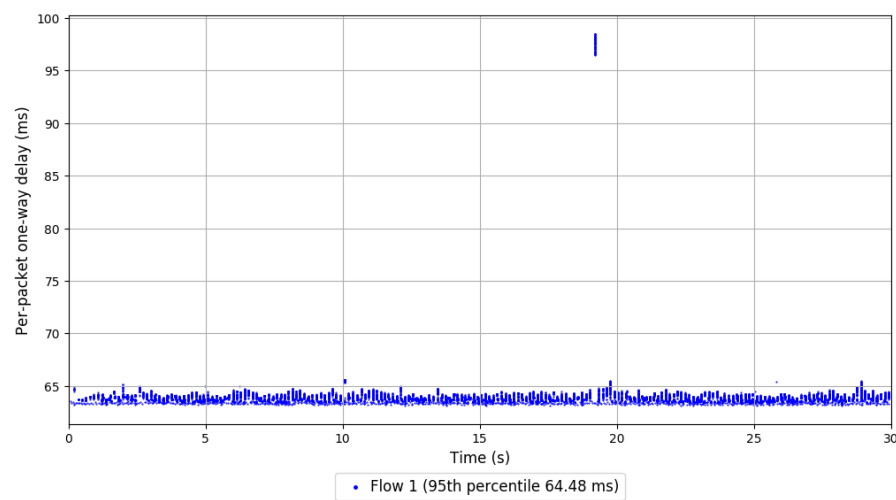
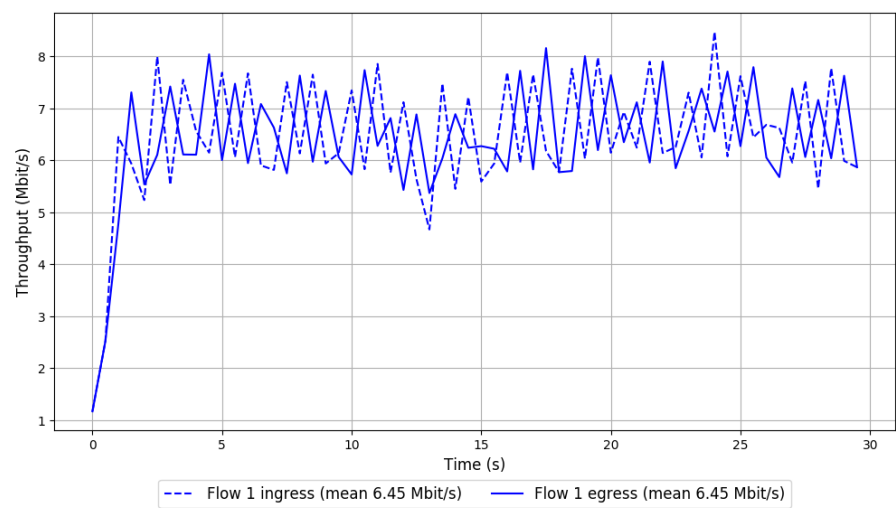
-- Flow 1:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 64.481 ms

Loss rate: 0.23%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-09-21 21:59:30

End at: 2017-09-21 22:00:00

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.46 Mbit/s

95th percentile per-packet one-way delay: 64.370 ms

Loss rate: 0.13%

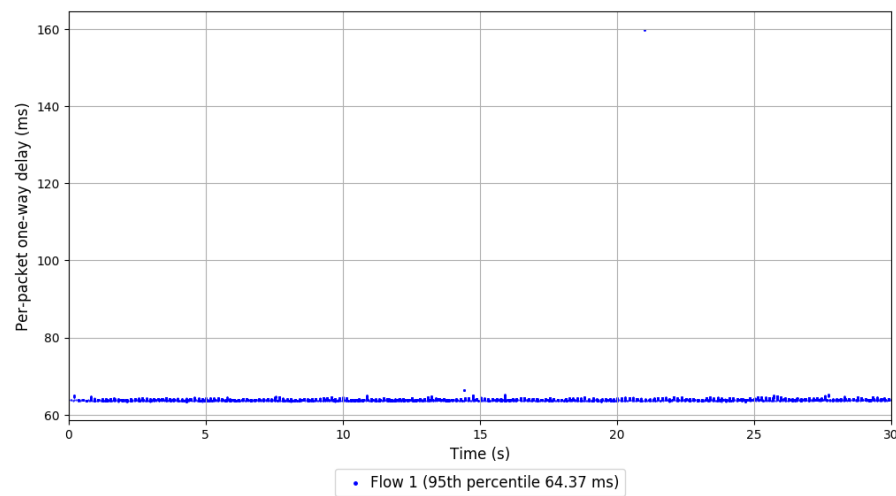
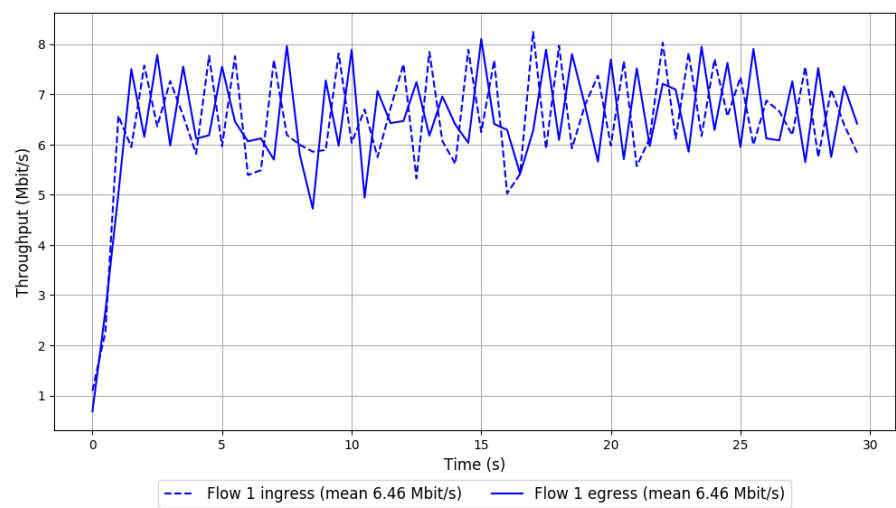
-- Flow 1:

Average throughput: 6.46 Mbit/s

95th percentile per-packet one-way delay: 64.370 ms

Loss rate: 0.13%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-09-21 22:10:12

End at: 2017-09-21 22:10:42

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.46 Mbit/s

95th percentile per-packet one-way delay: 64.279 ms

Loss rate: 0.08%

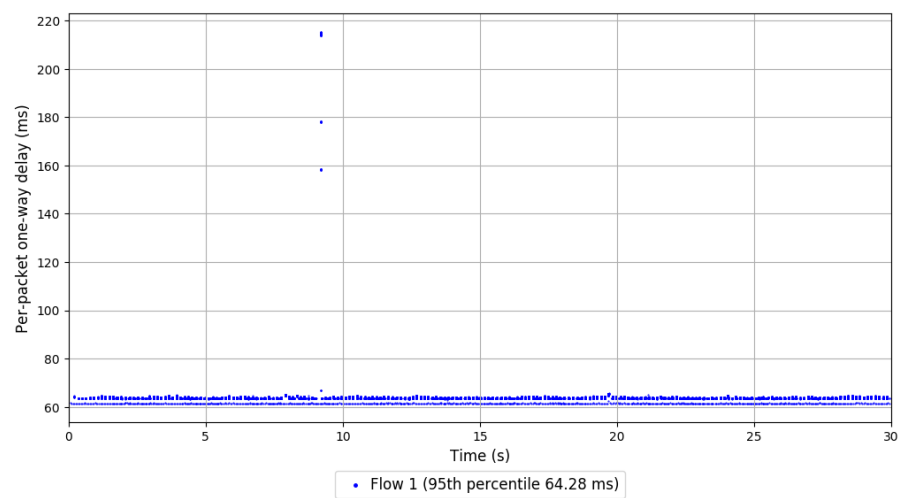
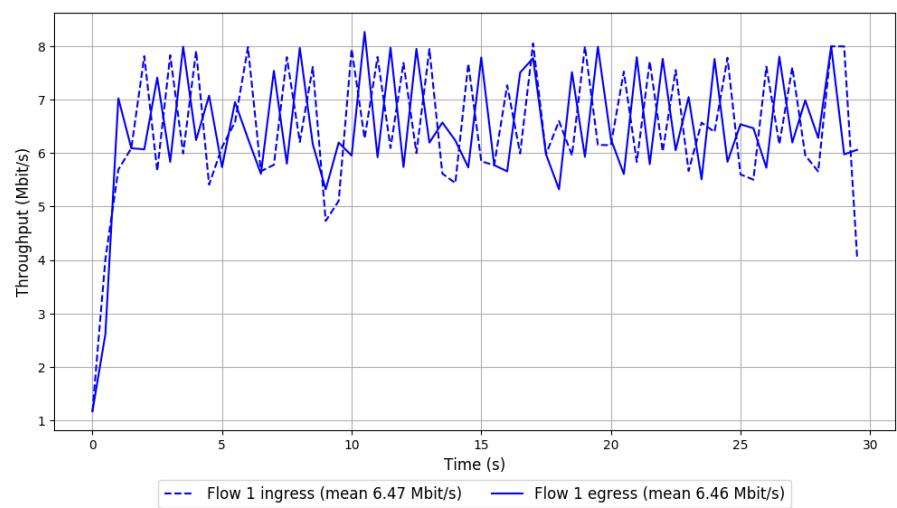
-- Flow 1:

Average throughput: 6.46 Mbit/s

95th percentile per-packet one-way delay: 64.279 ms

Loss rate: 0.08%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-09-21 22:20:54

End at: 2017-09-21 22:21:24

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.36 Mbit/s

95th percentile per-packet one-way delay: 64.369 ms

Loss rate: 0.04%

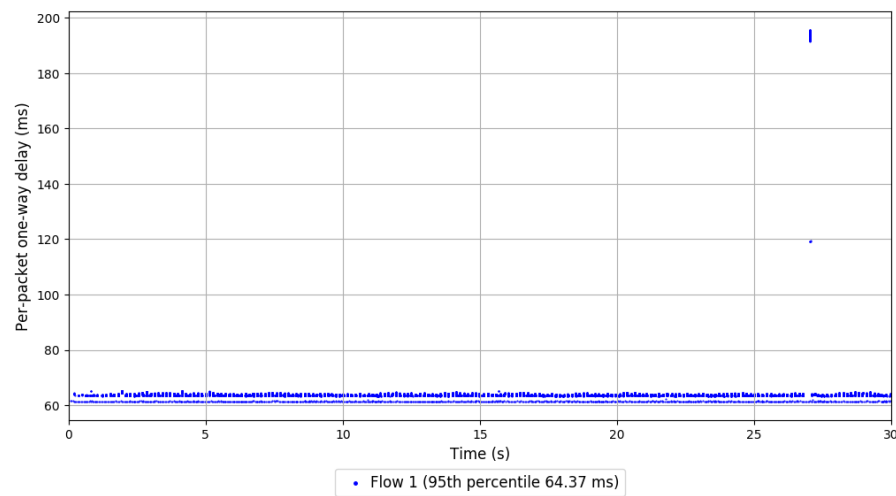
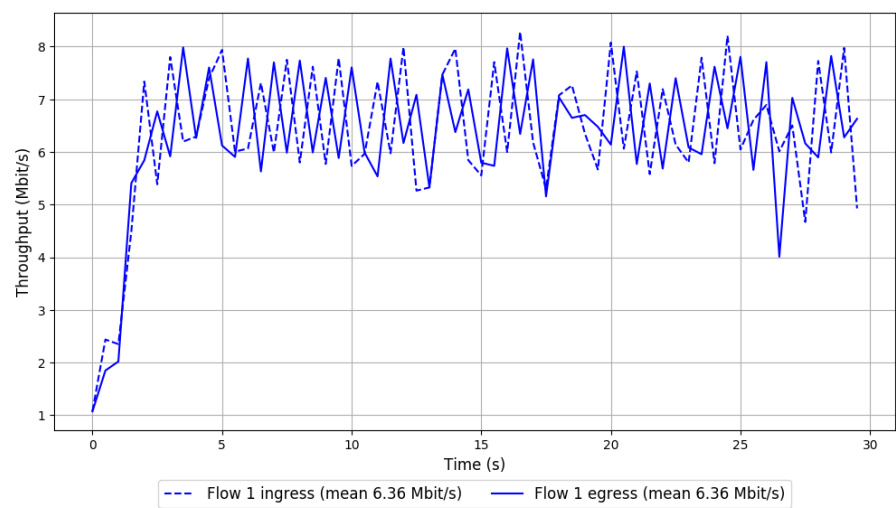
-- Flow 1:

Average throughput: 6.36 Mbit/s

95th percentile per-packet one-way delay: 64.369 ms

Loss rate: 0.04%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-09-21 22:31:36

End at: 2017-09-21 22:32:06

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 64.455 ms

Loss rate: 0.02%

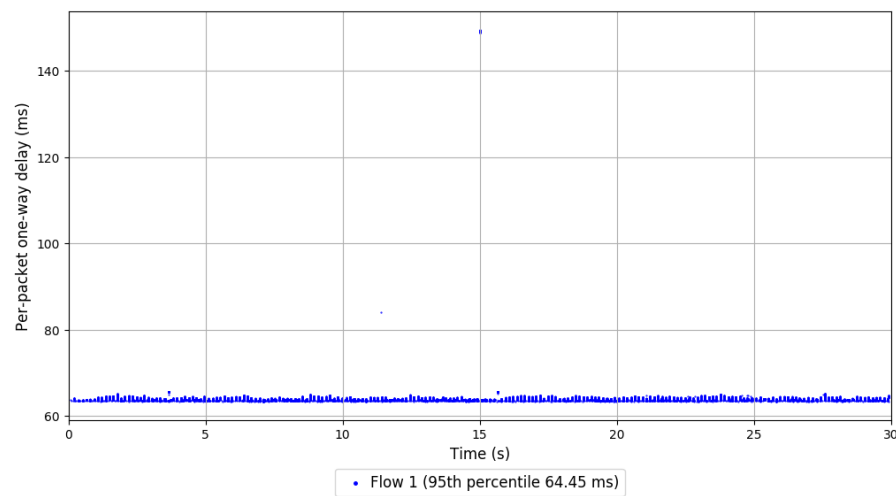
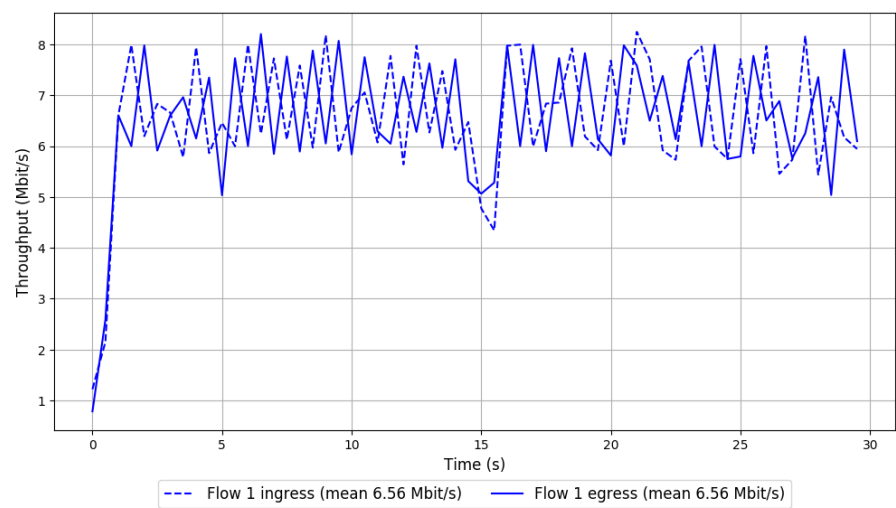
-- Flow 1:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 64.455 ms

Loss rate: 0.02%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-09-21 22:42:11

End at: 2017-09-21 22:42:41

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.24 Mbit/s

95th percentile per-packet one-way delay: 64.434 ms

Loss rate: 0.01%

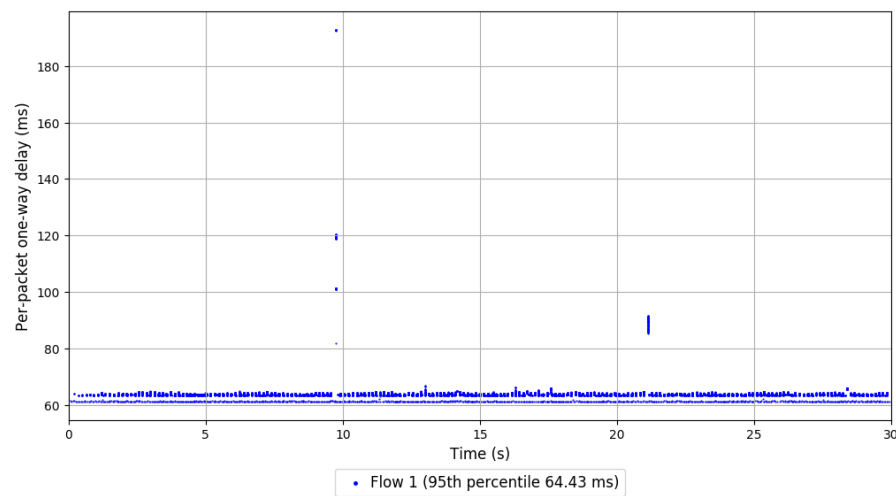
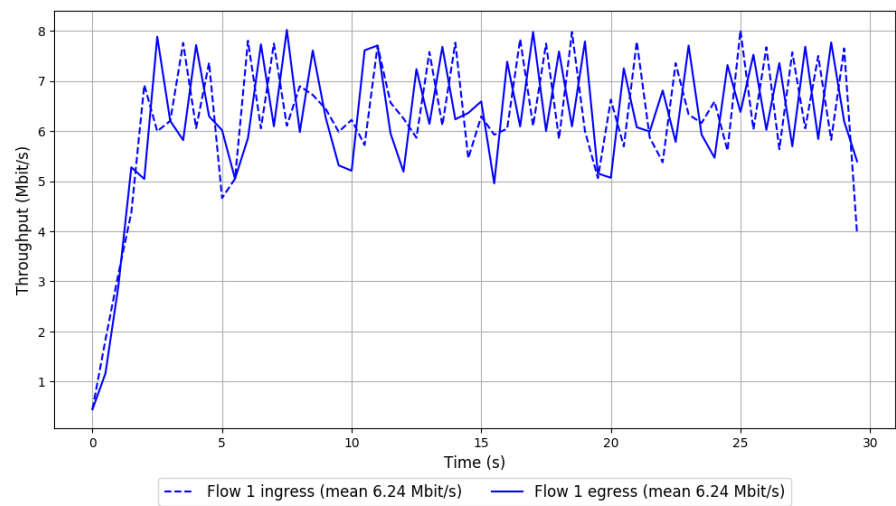
-- Flow 1:

Average throughput: 6.24 Mbit/s

95th percentile per-packet one-way delay: 64.434 ms

Loss rate: 0.01%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-09-21 22:52:43

End at: 2017-09-21 22:53:13

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.49 Mbit/s

95th percentile per-packet one-way delay: 64.330 ms

Loss rate: 0.00%

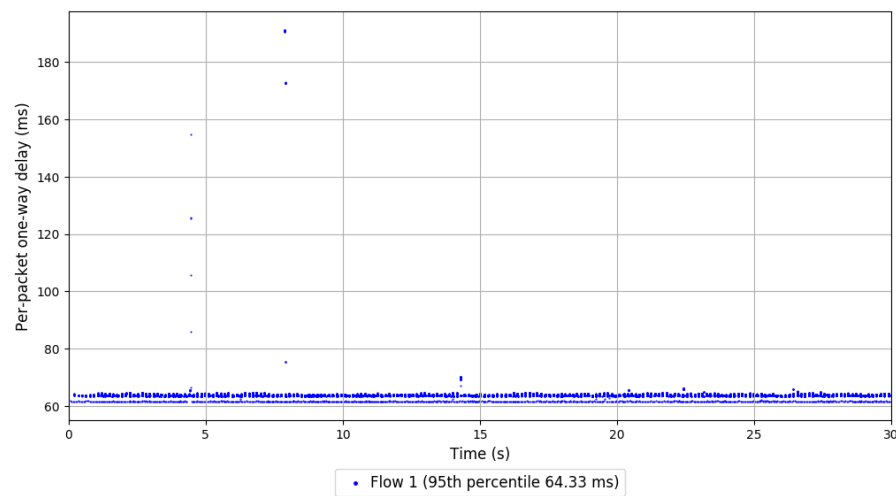
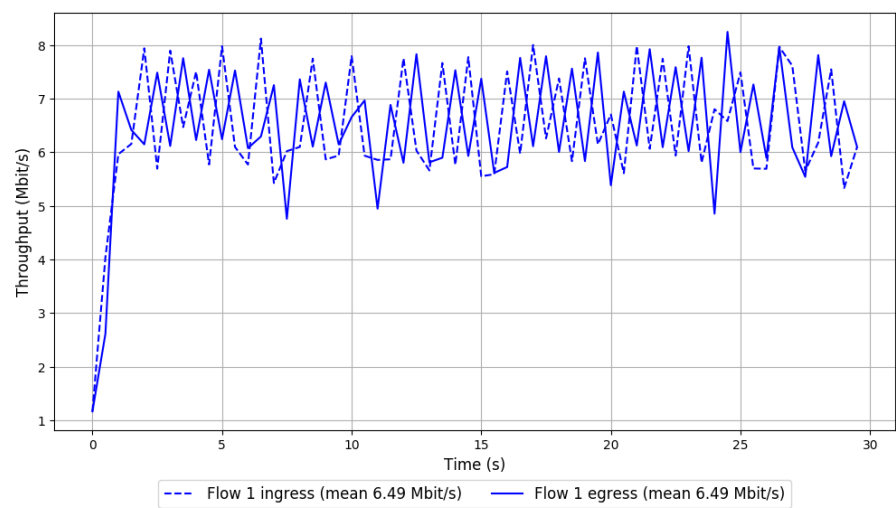
-- Flow 1:

Average throughput: 6.49 Mbit/s

95th percentile per-packet one-way delay: 64.330 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-09-21 23:03:17

End at: 2017-09-21 23:03:47

Below is generated by plot.py at 2017-09-22 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.51 Mbit/s

95th percentile per-packet one-way delay: 64.401 ms

Loss rate: 0.27%

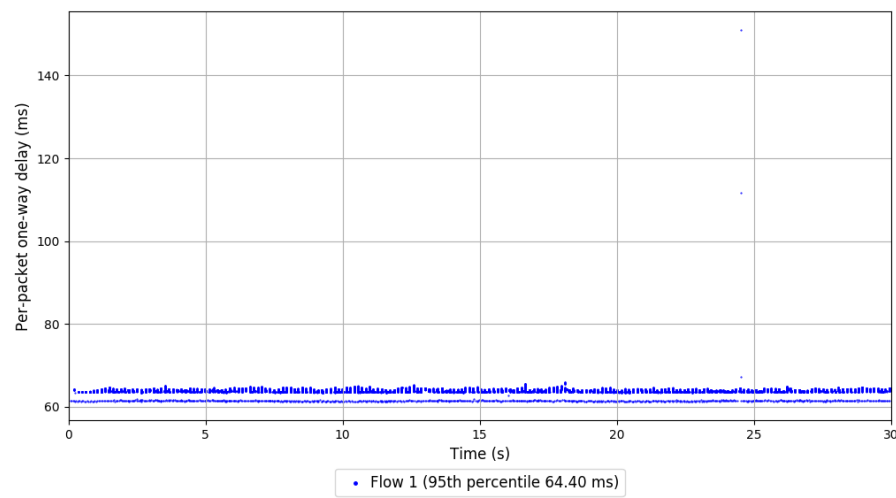
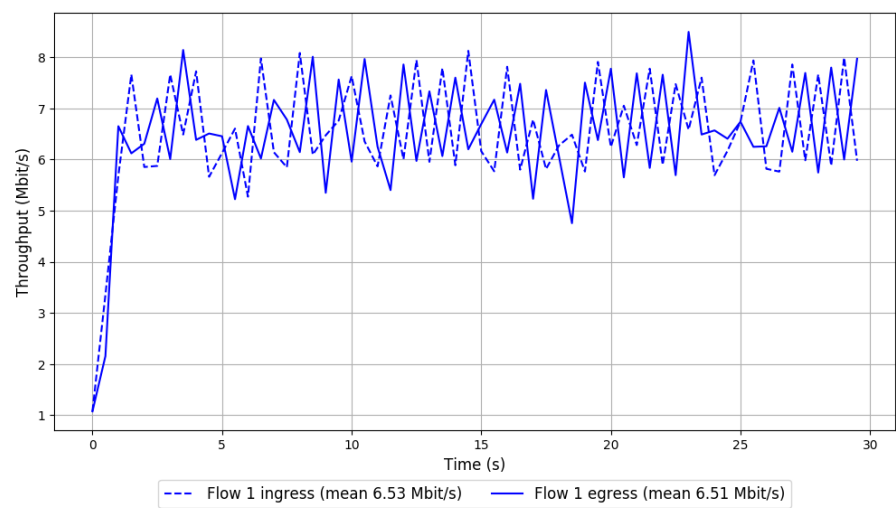
-- Flow 1:

Average throughput: 6.51 Mbit/s

95th percentile per-packet one-way delay: 64.401 ms

Loss rate: 0.27%

Run 10: Report of Sprout — Data Link

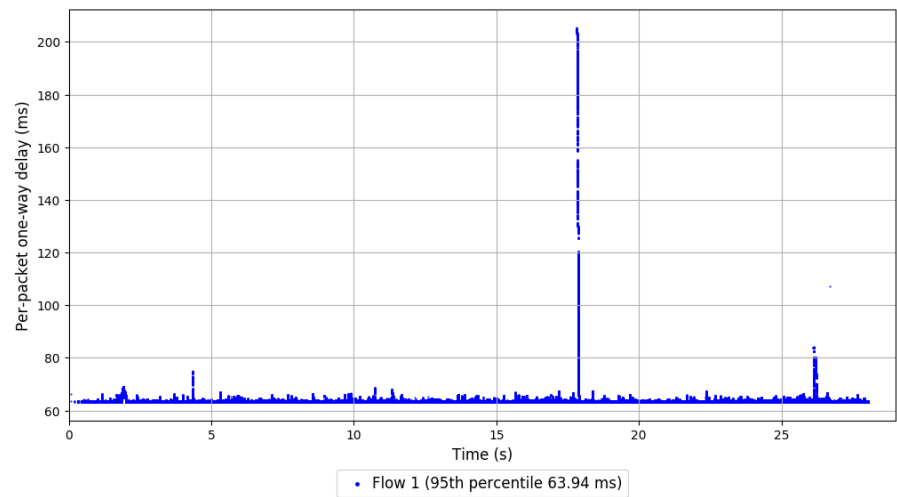
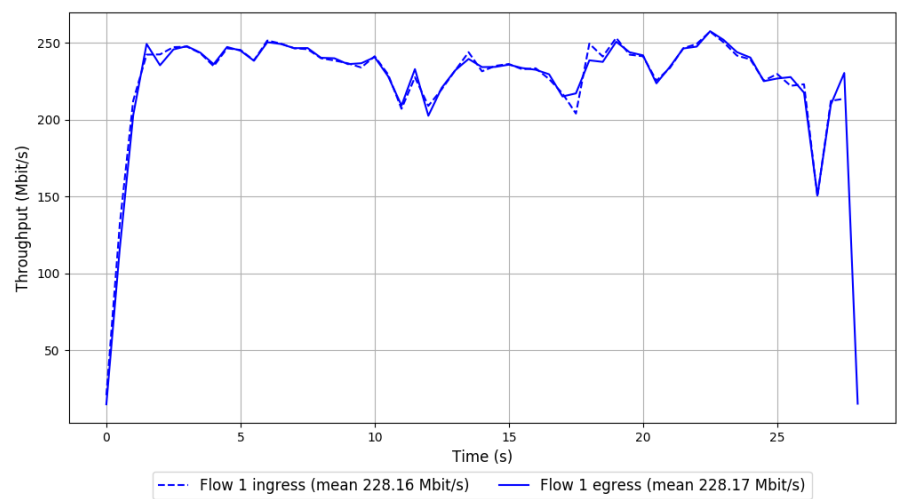


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-09-21 21:35:02
End at: 2017-09-21 21:35:32

# Below is generated by plot.py at 2017-09-22 00:29:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 228.17 Mbit/s
95th percentile per-packet one-way delay: 63.937 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 228.17 Mbit/s
95th percentile per-packet one-way delay: 63.937 ms
Loss rate: 0.01%
```

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

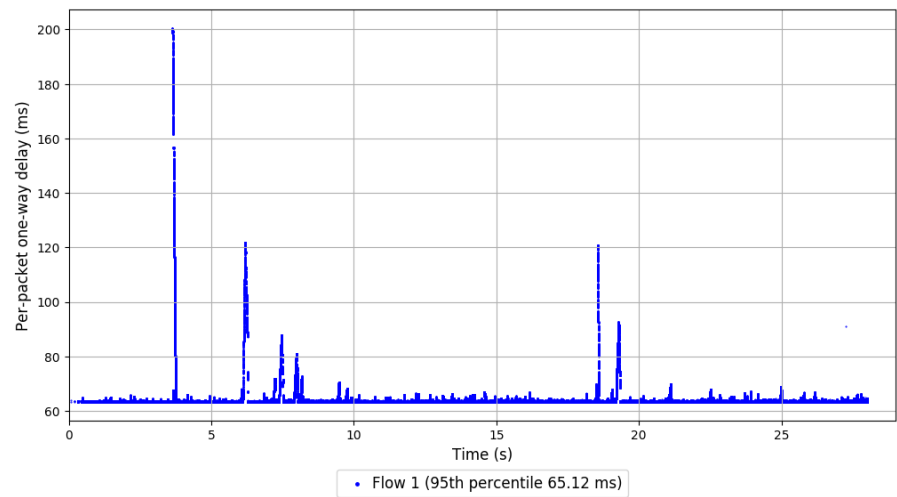
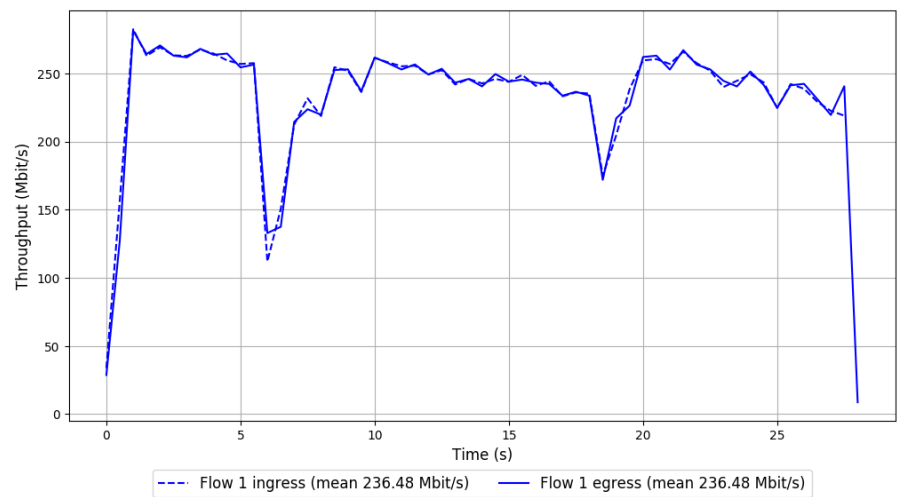


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-09-21 21:45:45
End at: 2017-09-21 21:46:15

# Below is generated by plot.py at 2017-09-22 00:29:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 236.48 Mbit/s
95th percentile per-packet one-way delay: 65.117 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 236.48 Mbit/s
95th percentile per-packet one-way delay: 65.117 ms
Loss rate: 0.00%
```

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

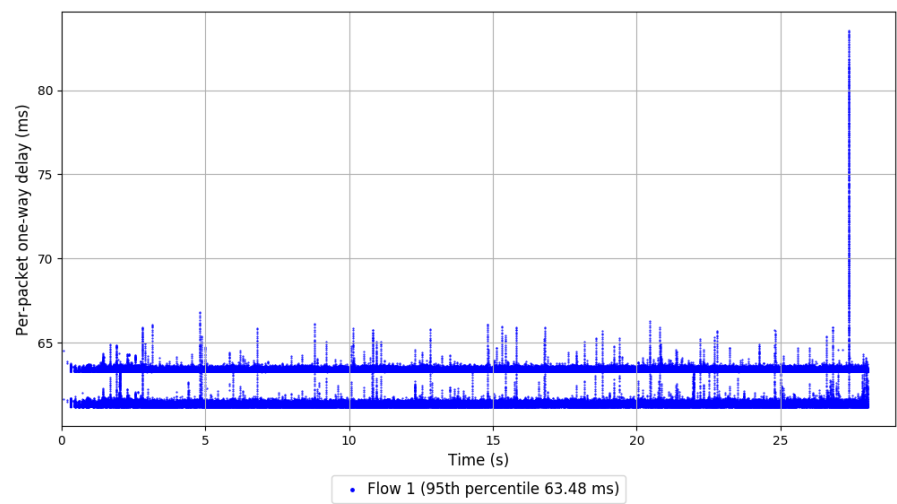
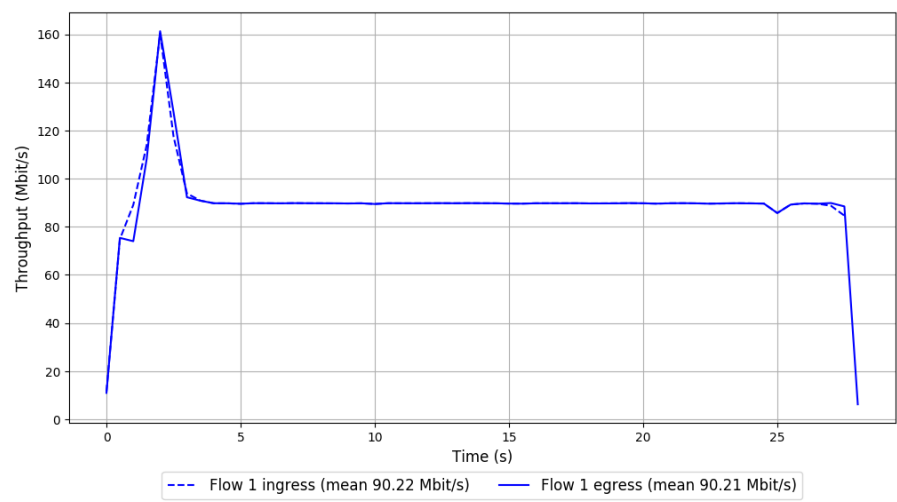


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-09-21 21:56:27
End at: 2017-09-21 21:56:57

# Below is generated by plot.py at 2017-09-22 00:29:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.21 Mbit/s
95th percentile per-packet one-way delay: 63.476 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.21 Mbit/s
95th percentile per-packet one-way delay: 63.476 ms
Loss rate: 0.00%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-09-21 22:06:53

End at: 2017-09-21 22:07:23

Below is generated by plot.py at 2017-09-22 00:29:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.04 Mbit/s

95th percentile per-packet one-way delay: 70.205 ms

Loss rate: 0.00%

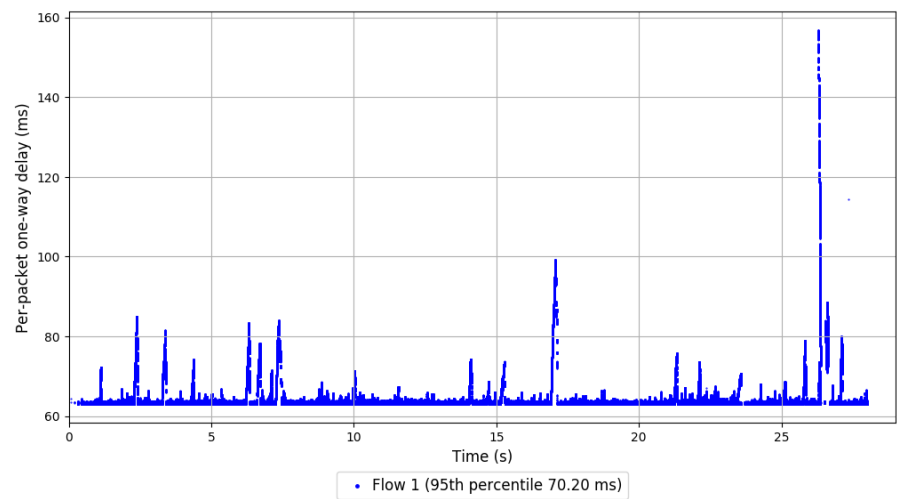
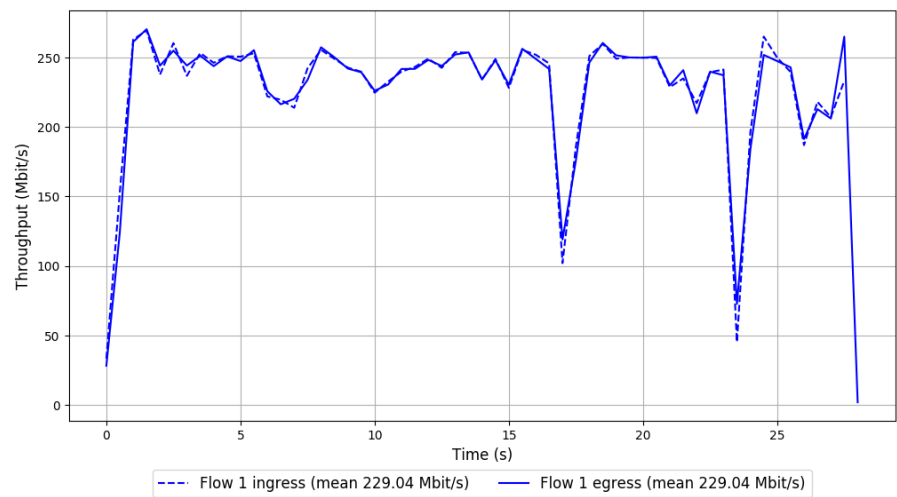
-- Flow 1:

Average throughput: 229.04 Mbit/s

95th percentile per-packet one-way delay: 70.205 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-09-21 22:17:34

End at: 2017-09-21 22:18:04

Below is generated by plot.py at 2017-09-22 00:30:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 237.69 Mbit/s

95th percentile per-packet one-way delay: 64.805 ms

Loss rate: 0.10%

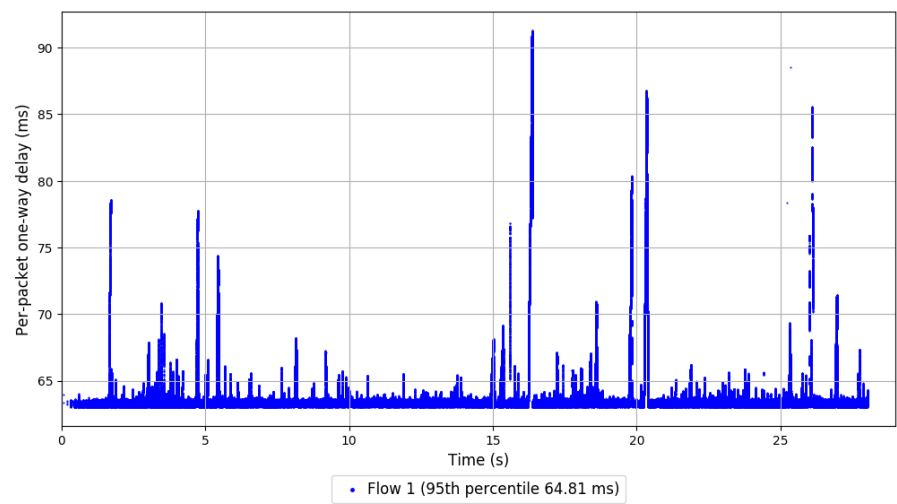
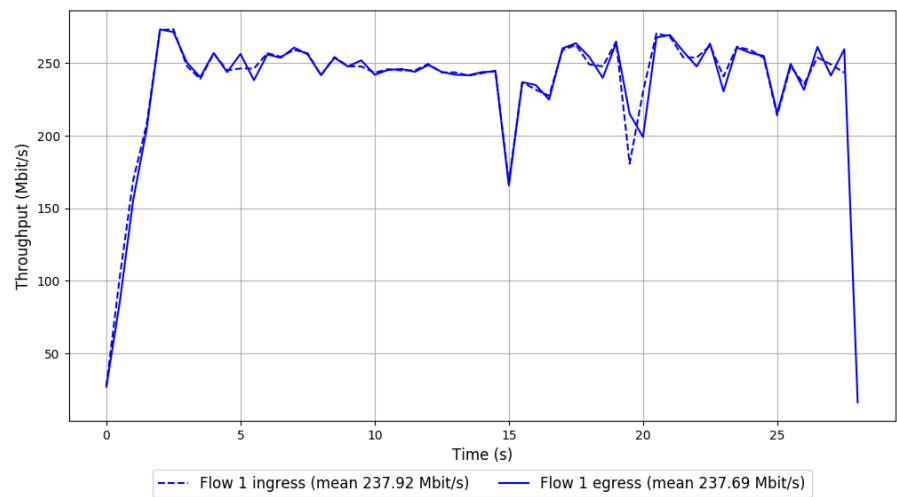
-- Flow 1:

Average throughput: 237.69 Mbit/s

95th percentile per-packet one-way delay: 64.805 ms

Loss rate: 0.10%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-09-21 22:28:20

End at: 2017-09-21 22:28:50

Below is generated by plot.py at 2017-09-22 00:30:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.23 Mbit/s

95th percentile per-packet one-way delay: 63.691 ms

Loss rate: 0.01%

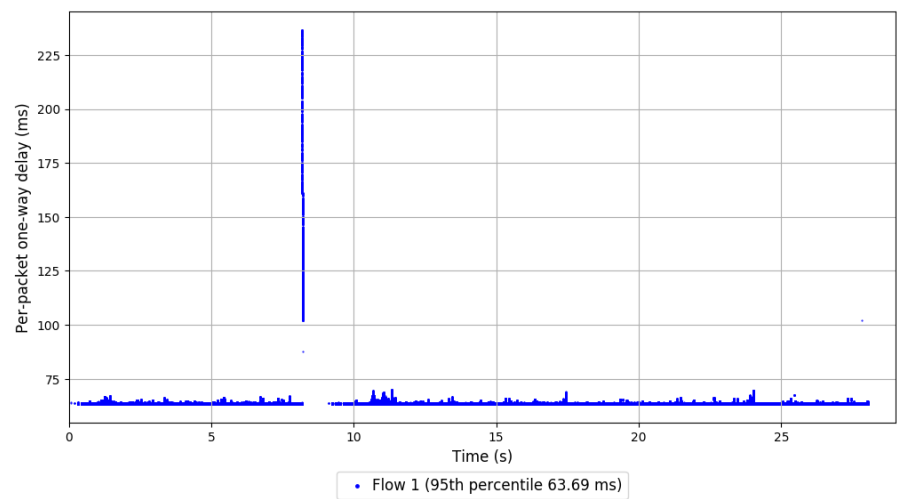
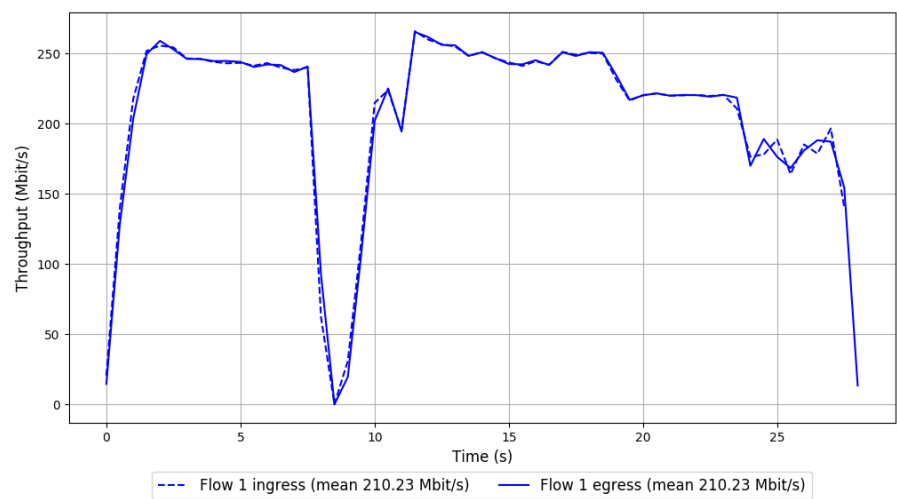
-- Flow 1:

Average throughput: 210.23 Mbit/s

95th percentile per-packet one-way delay: 63.691 ms

Loss rate: 0.01%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-09-21 22:38:53

End at: 2017-09-21 22:39:23

Below is generated by plot.py at 2017-09-22 00:33:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 243.28 Mbit/s

95th percentile per-packet one-way delay: 64.240 ms

Loss rate: 0.00%

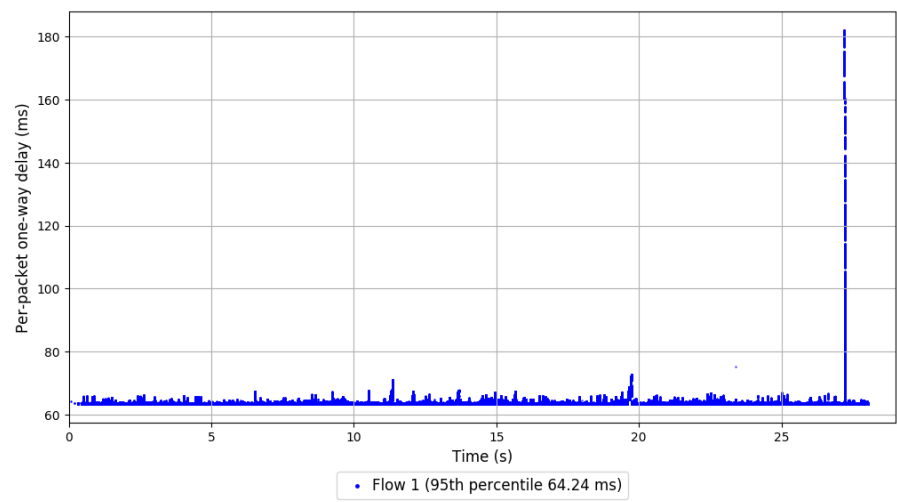
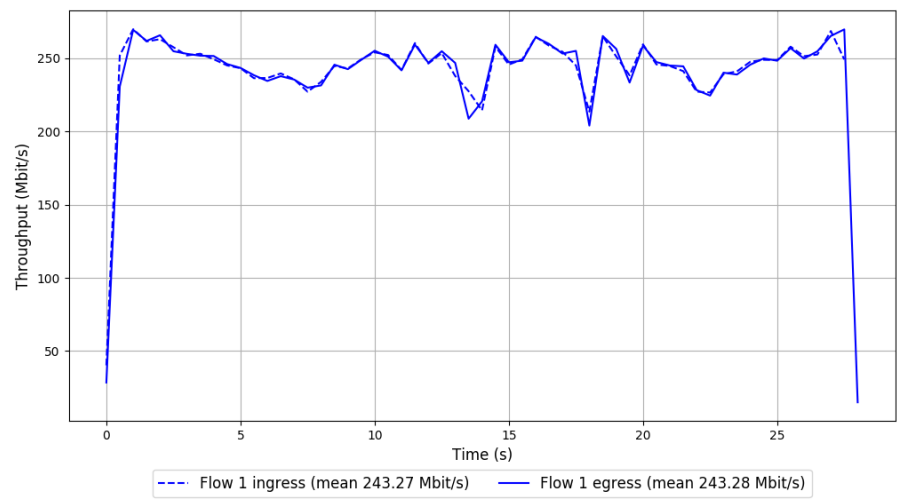
-- Flow 1:

Average throughput: 243.28 Mbit/s

95th percentile per-packet one-way delay: 64.240 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-09-21 22:49:33

End at: 2017-09-21 22:50:03

Below is generated by plot.py at 2017-09-22 00:35:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 247.46 Mbit/s

95th percentile per-packet one-way delay: 64.042 ms

Loss rate: 0.00%

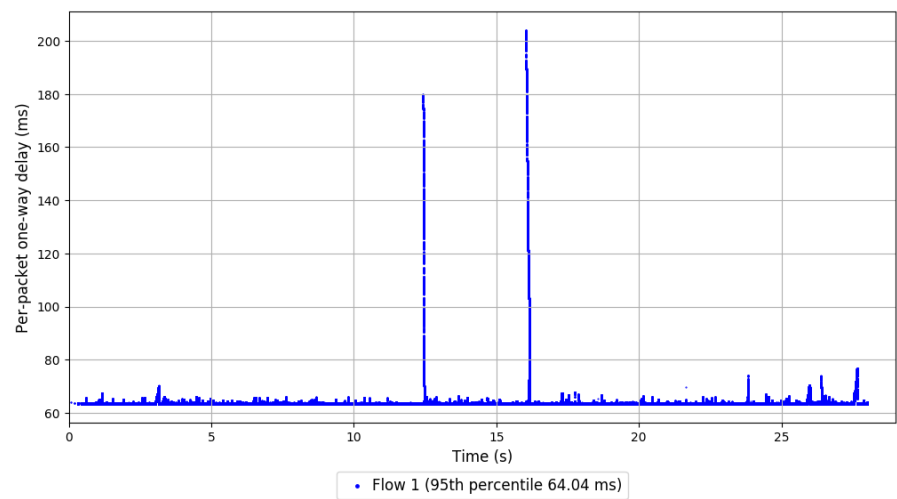
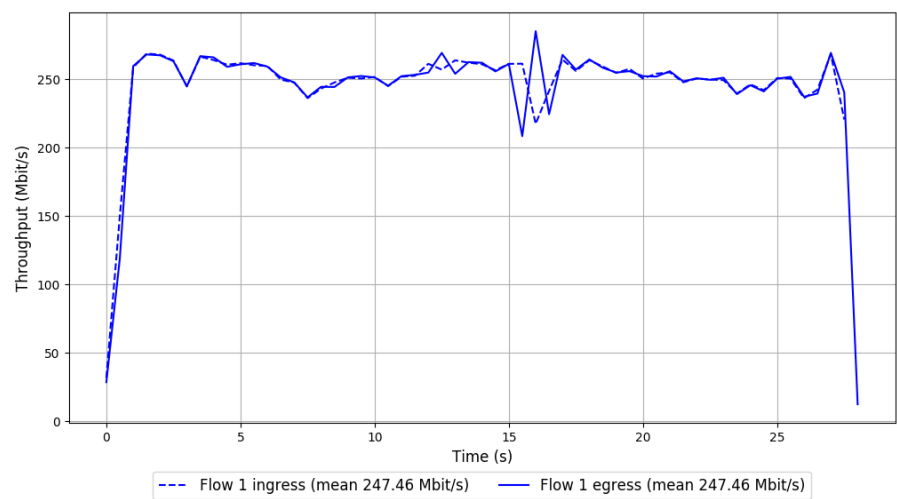
-- Flow 1:

Average throughput: 247.46 Mbit/s

95th percentile per-packet one-way delay: 64.042 ms

Loss rate: 0.00%

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

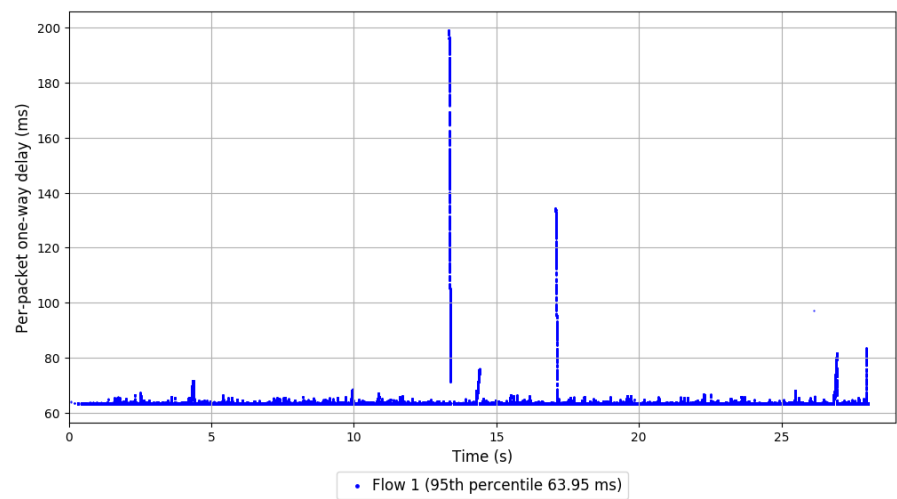
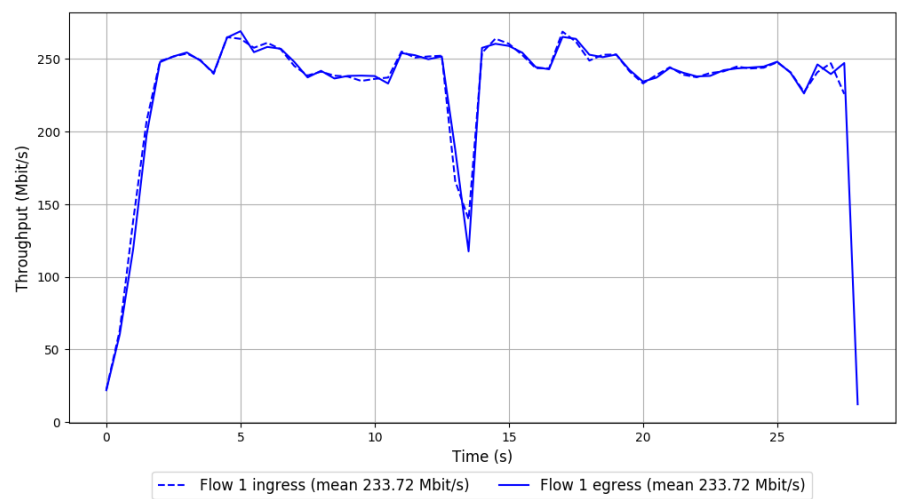


```
Run 9: Statistics of TaoVA-100x

Start at: 2017-09-21 23:00:02
End at: 2017-09-21 23:00:32

# Below is generated by plot.py at 2017-09-22 00:36:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 233.72 Mbit/s
95th percentile per-packet one-way delay: 63.948 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 233.72 Mbit/s
95th percentile per-packet one-way delay: 63.948 ms
Loss rate: 0.00%
```

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

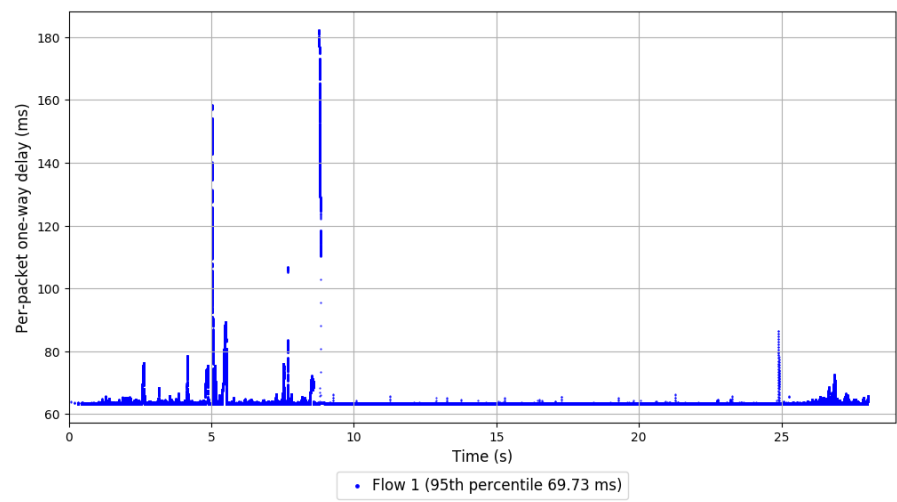
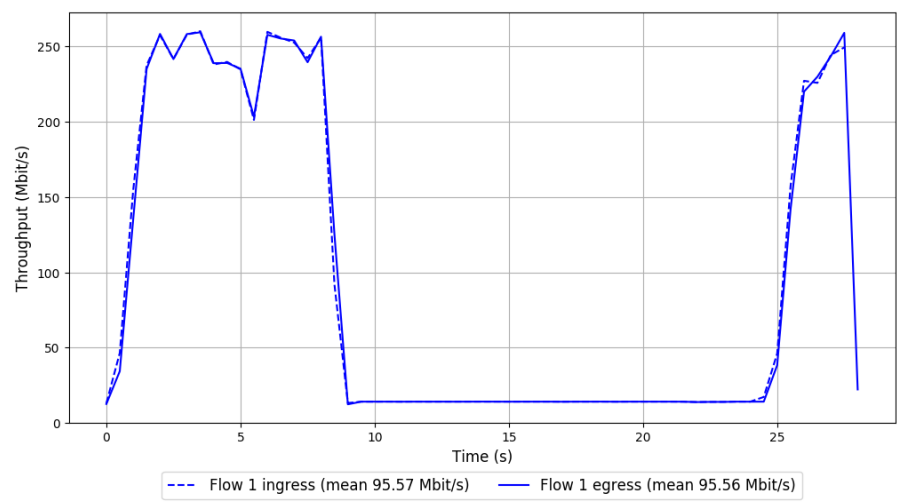


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-09-21 23:10:40
End at: 2017-09-21 23:11:10

# Below is generated by plot.py at 2017-09-22 00:36:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.56 Mbit/s
95th percentile per-packet one-way delay: 69.728 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.56 Mbit/s
95th percentile per-packet one-way delay: 69.728 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-09-21 21:32:55

End at: 2017-09-21 21:33:25

Below is generated by plot.py at 2017-09-22 00:36:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.76 Mbit/s

95th percentile per-packet one-way delay: 64.825 ms

Loss rate: 0.00%

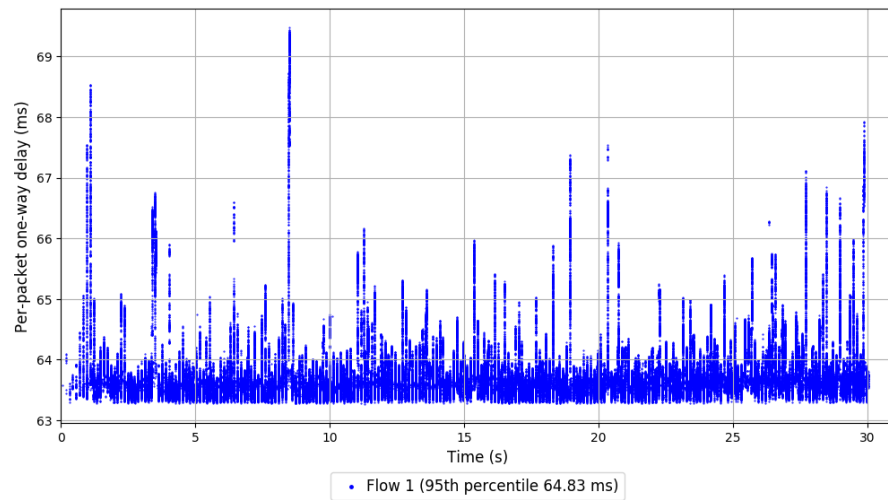
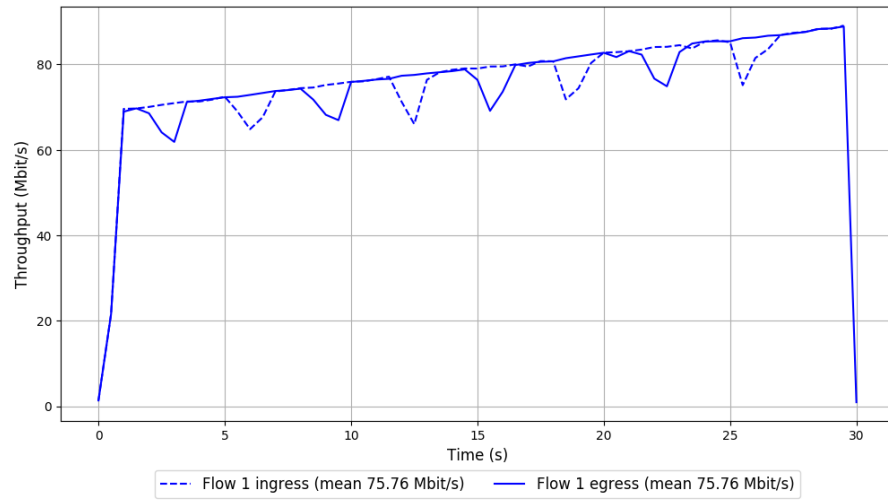
-- Flow 1:

Average throughput: 75.76 Mbit/s

95th percentile per-packet one-way delay: 64.825 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-09-21 21:43:42

End at: 2017-09-21 21:44:12

Below is generated by plot.py at 2017-09-22 00:36:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.76 Mbit/s

95th percentile per-packet one-way delay: 64.107 ms

Loss rate: 0.00%

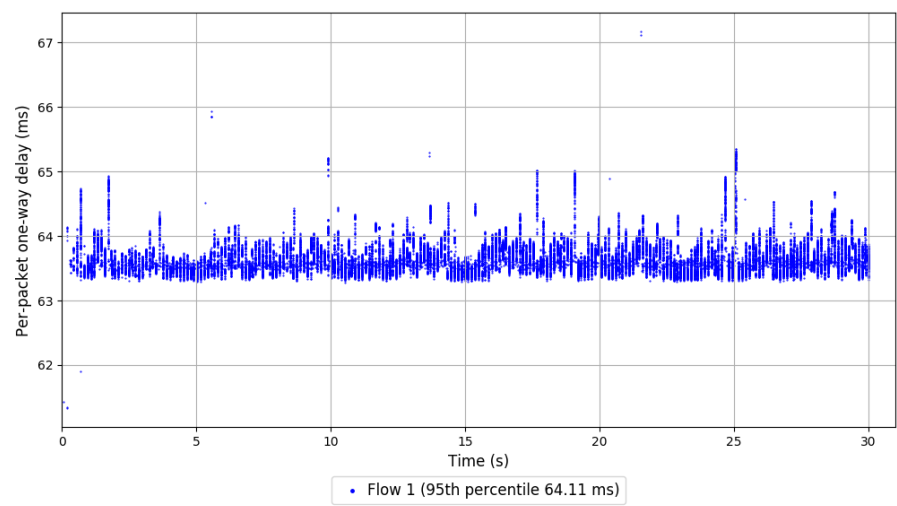
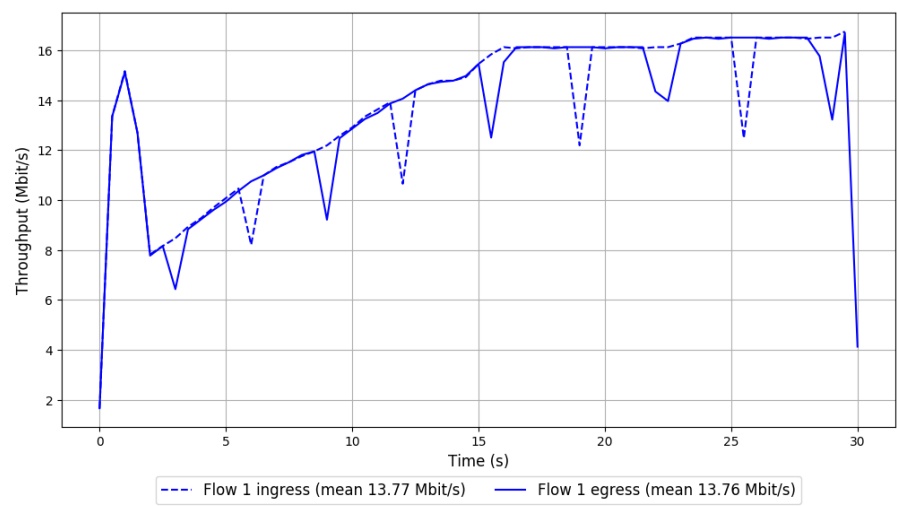
-- Flow 1:

Average throughput: 13.76 Mbit/s

95th percentile per-packet one-way delay: 64.107 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-09-21 21:54:22

End at: 2017-09-21 21:54:52

Below is generated by plot.py at 2017-09-22 00:36:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.25 Mbit/s

95th percentile per-packet one-way delay: 64.847 ms

Loss rate: 0.03%

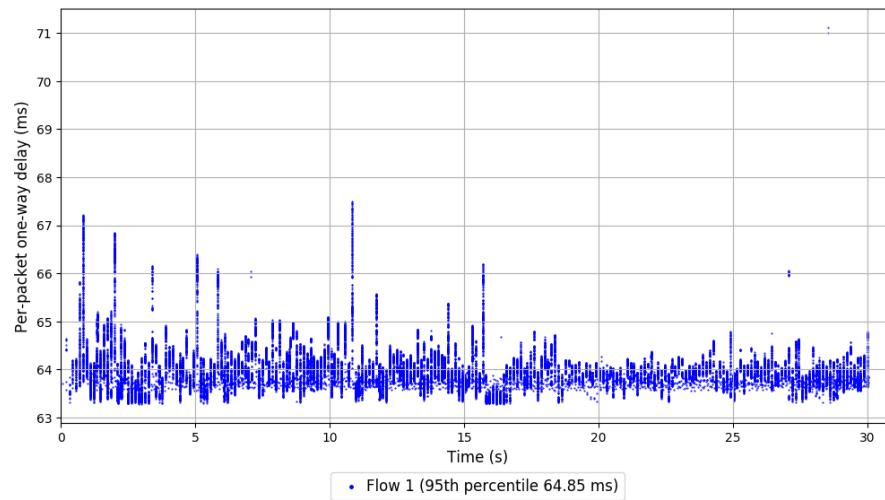
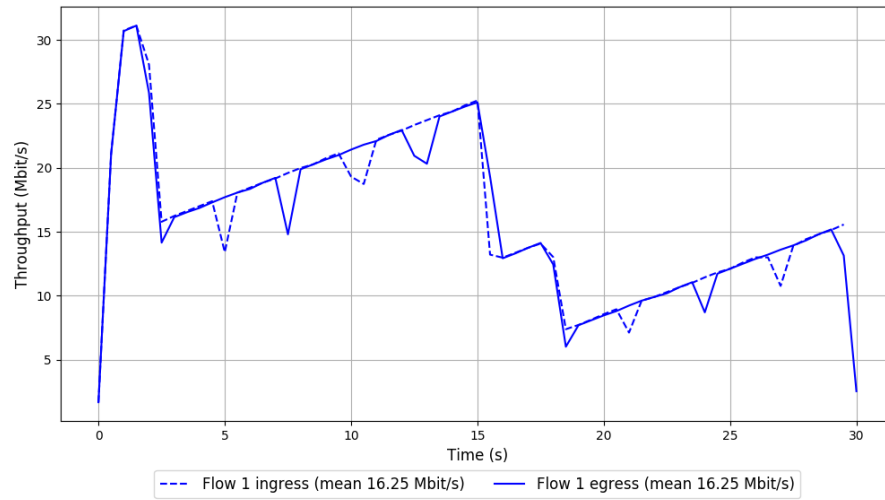
-- Flow 1:

Average throughput: 16.25 Mbit/s

95th percentile per-packet one-way delay: 64.847 ms

Loss rate: 0.03%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-09-21 22:04:49

End at: 2017-09-21 22:05:19

Below is generated by plot.py at 2017-09-22 00:36:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.72 Mbit/s

95th percentile per-packet one-way delay: 64.701 ms

Loss rate: 0.17%

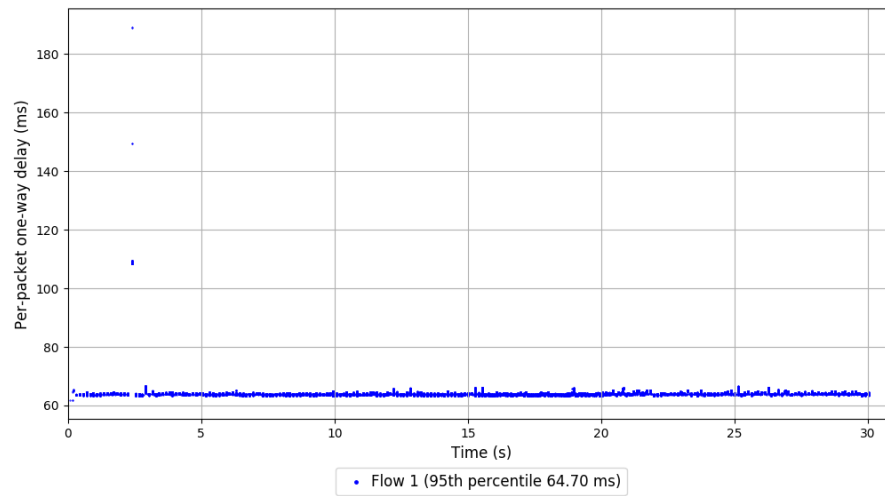
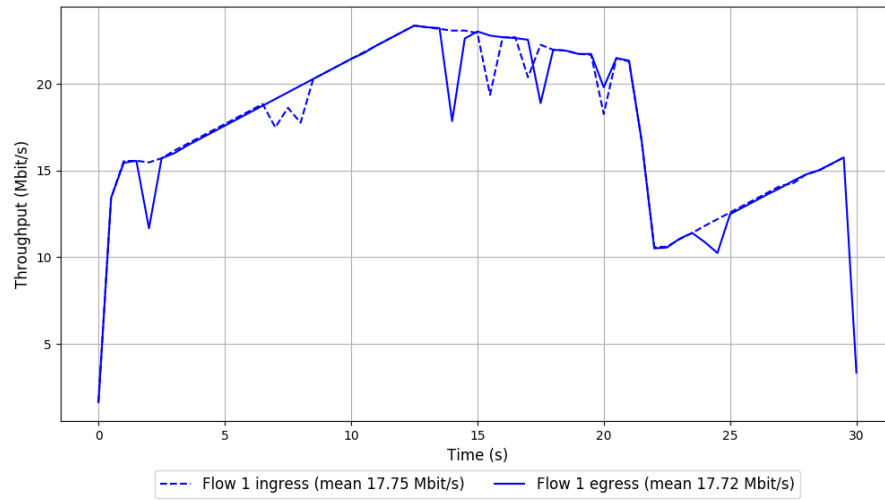
-- Flow 1:

Average throughput: 17.72 Mbit/s

95th percentile per-packet one-way delay: 64.701 ms

Loss rate: 0.17%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-09-21 22:15:32

End at: 2017-09-21 22:16:02

Run 5: Report of TCP Vegas — Data Link

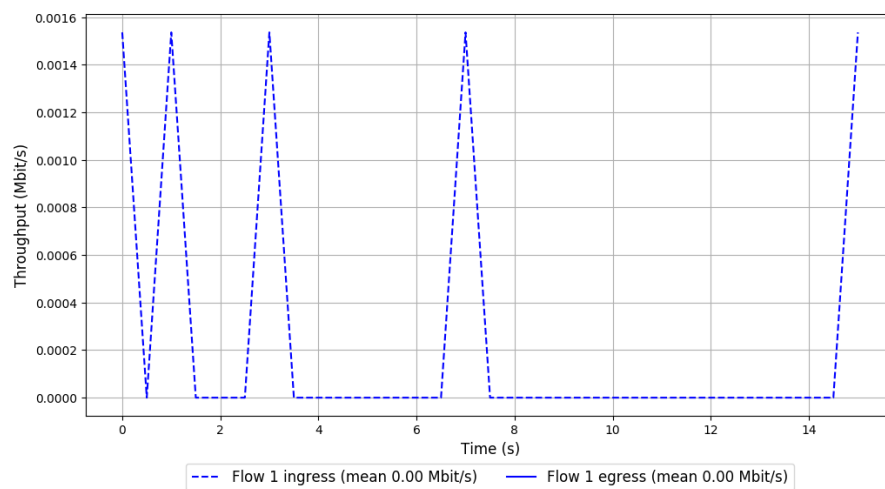


Figure is missing

Run 6: Statistics of TCP Vegas

Start at: 2017-09-21 22:26:16

End at: 2017-09-21 22:26:46

Below is generated by plot.py at 2017-09-22 00:36:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.02 Mbit/s

95th percentile per-packet one-way delay: 64.976 ms

Loss rate: 0.00%

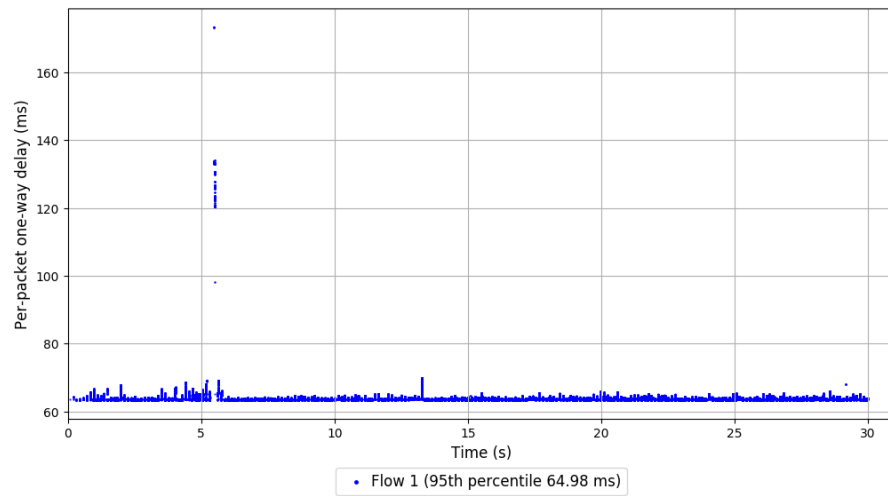
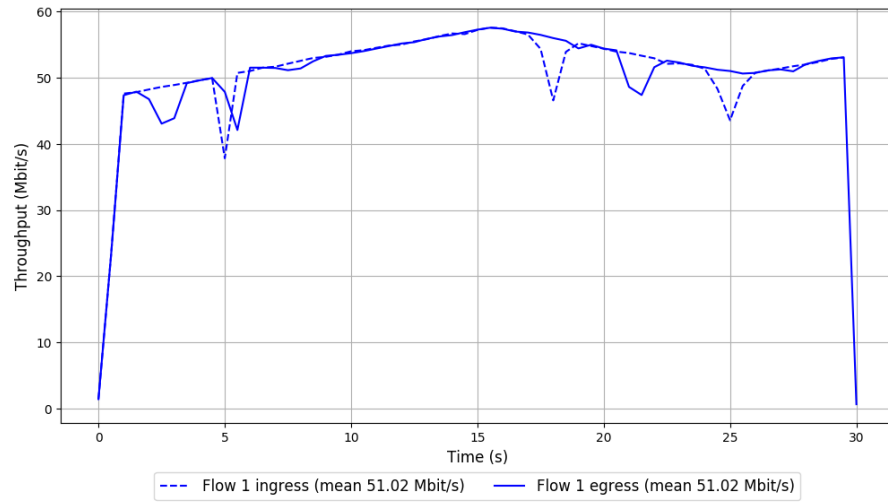
-- Flow 1:

Average throughput: 51.02 Mbit/s

95th percentile per-packet one-way delay: 64.976 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link

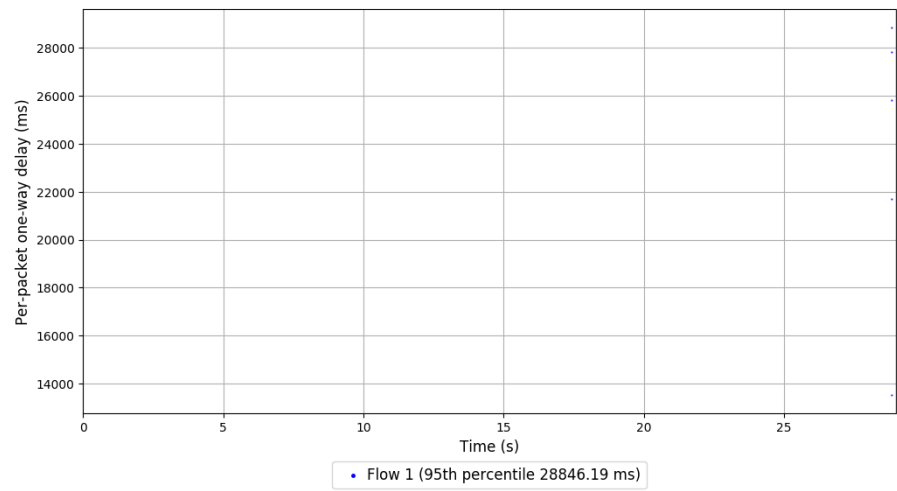
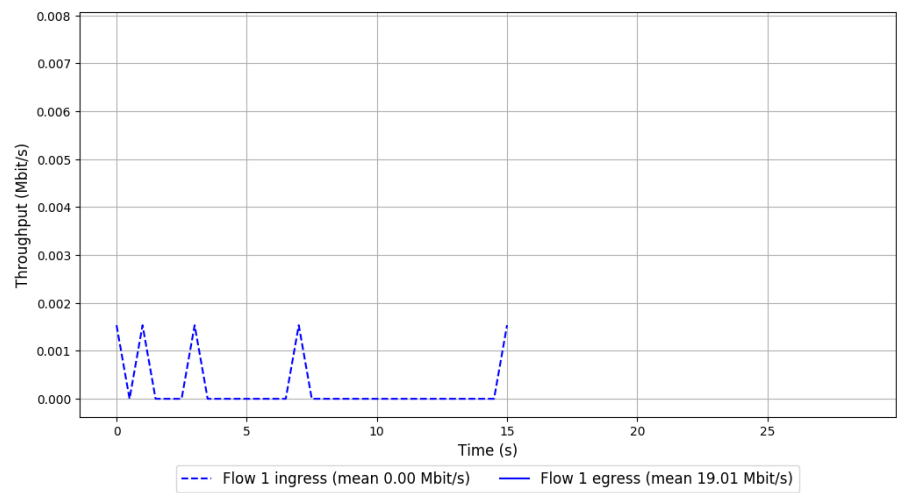


Run 7: Statistics of TCP Vegas

Start at: 2017-09-21 22:36:51

End at: 2017-09-21 22:37:21

Run 7: Report of TCP Vegas — Data Link

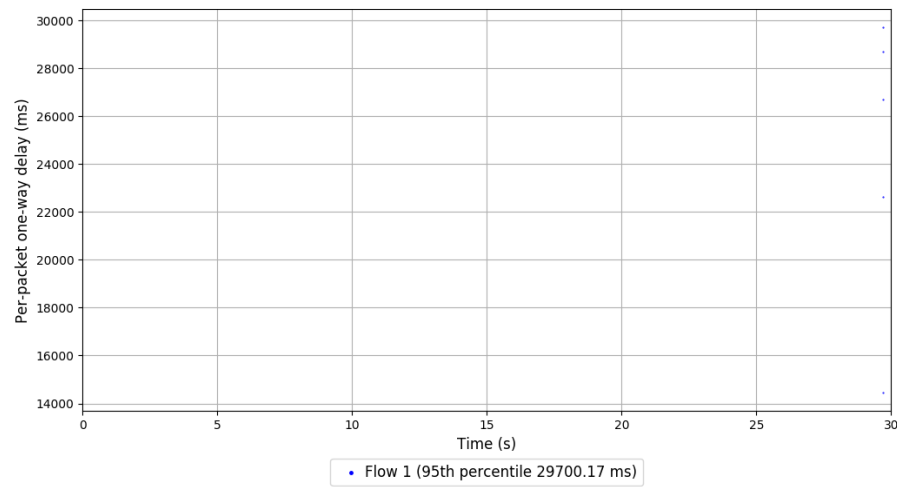
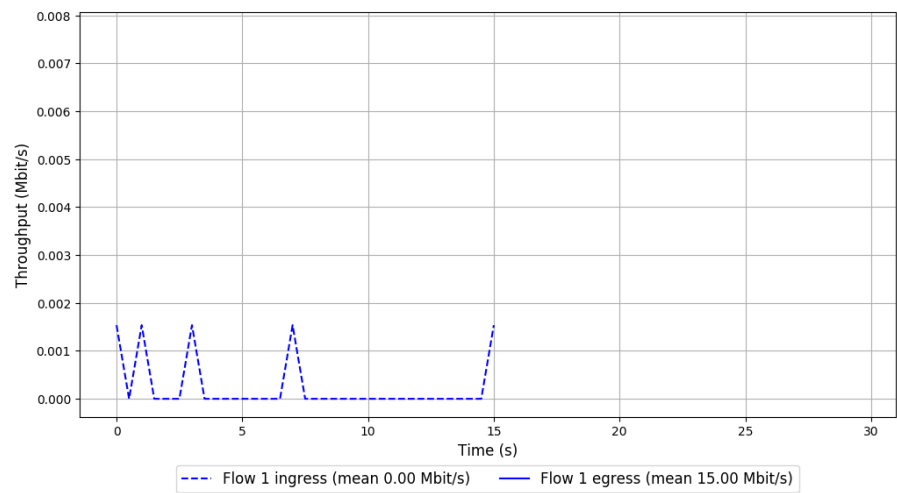


Run 8: Statistics of TCP Vegas

Start at: 2017-09-21 22:47:31

End at: 2017-09-21 22:48:01

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-09-21 22:57:59

End at: 2017-09-21 22:58:29

Run 9: Report of TCP Vegas — Data Link

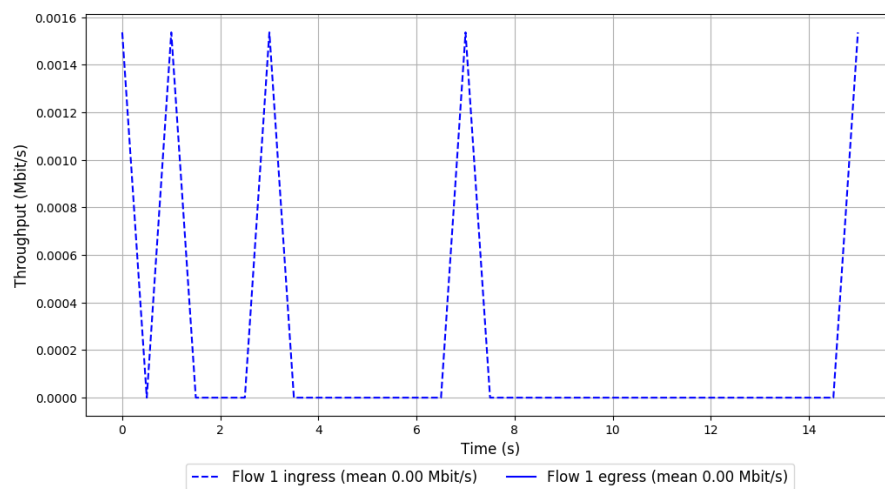


Figure is missing

Run 10: Statistics of TCP Vegas

Start at: 2017-09-21 23:08:37

End at: 2017-09-21 23:09:07

Below is generated by plot.py at 2017-09-22 00:36:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.52 Mbit/s

95th percentile per-packet one-way delay: 66.216 ms

Loss rate: 0.03%

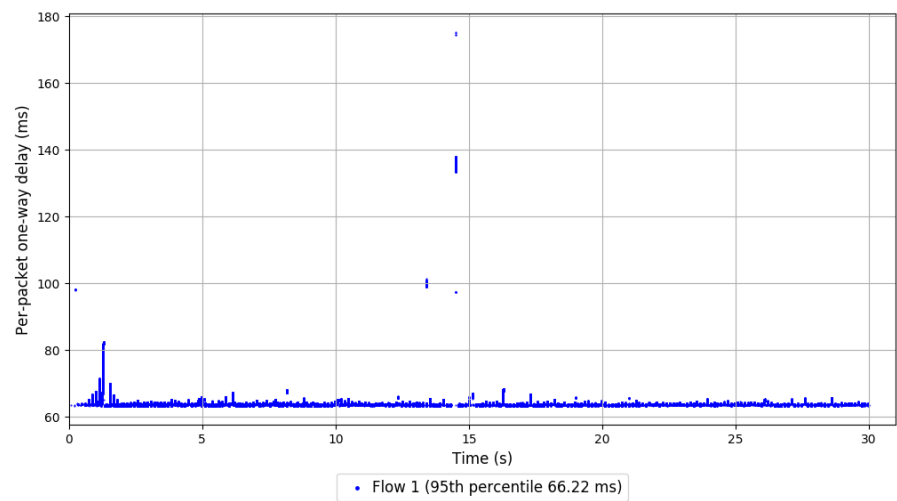
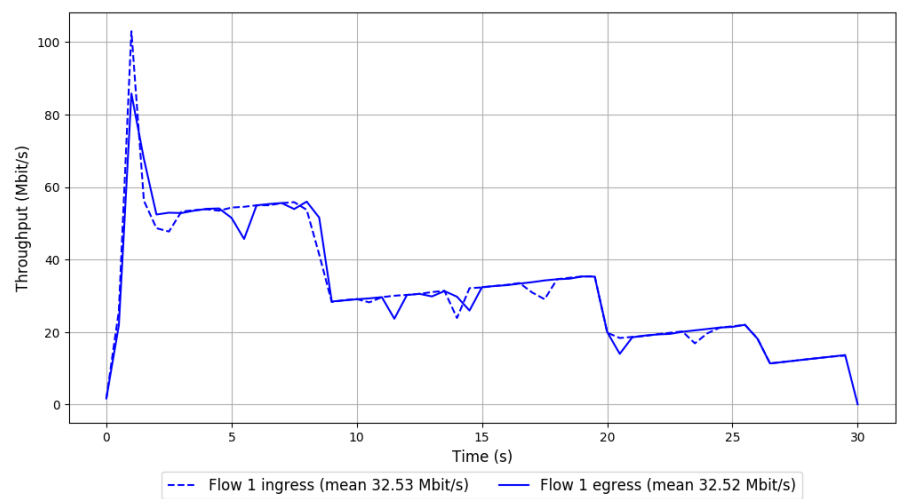
-- Flow 1:

Average throughput: 32.52 Mbit/s

95th percentile per-packet one-way delay: 66.216 ms

Loss rate: 0.03%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-09-21 21:30:16

End at: 2017-09-21 21:30:46

Below is generated by plot.py at 2017-09-22 00:36:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 280.17 Mbit/s

95th percentile per-packet one-way delay: 178.136 ms

Loss rate: 0.08%

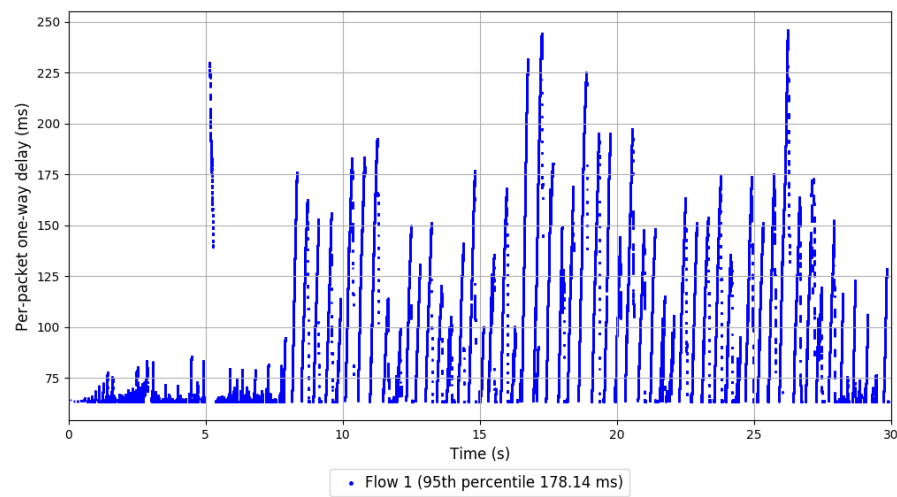
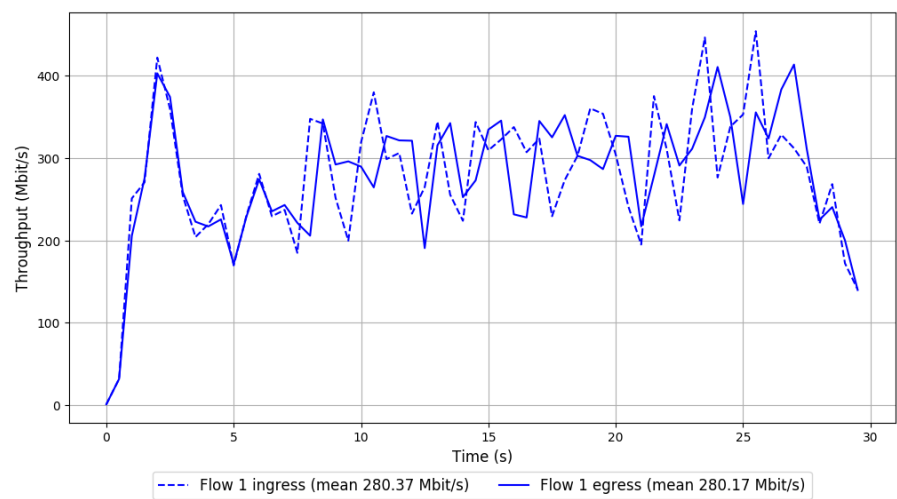
-- Flow 1:

Average throughput: 280.17 Mbit/s

95th percentile per-packet one-way delay: 178.136 ms

Loss rate: 0.08%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-09-21 21:41:11

End at: 2017-09-21 21:41:41

Below is generated by plot.py at 2017-09-22 00:36:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.40 Mbit/s

95th percentile per-packet one-way delay: 121.838 ms

Loss rate: 0.01%

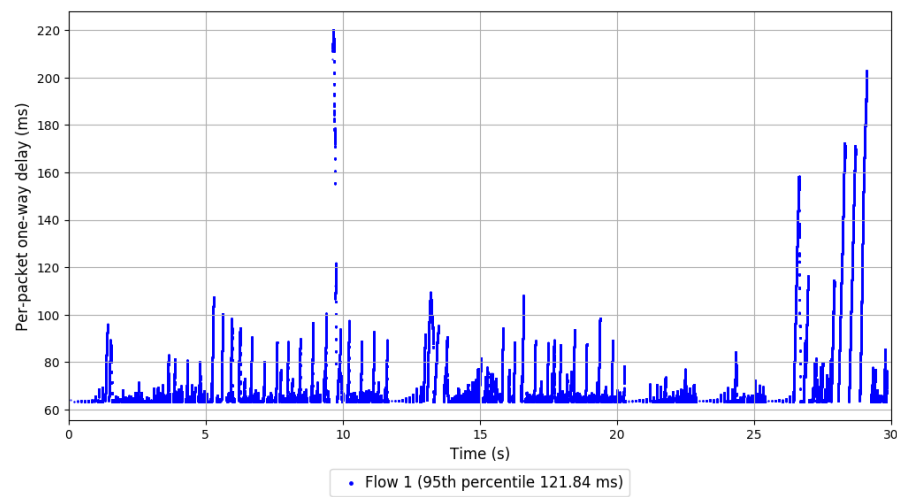
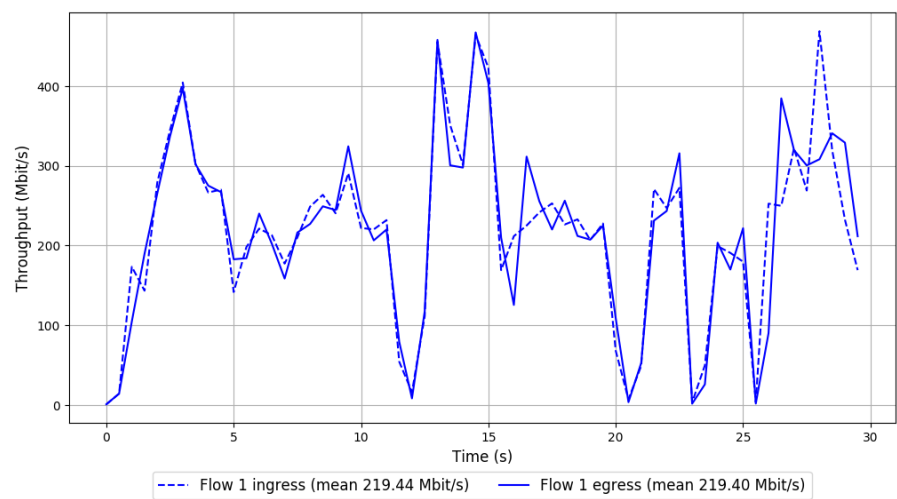
-- Flow 1:

Average throughput: 219.40 Mbit/s

95th percentile per-packet one-way delay: 121.838 ms

Loss rate: 0.01%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-09-21 21:51:47

End at: 2017-09-21 21:52:17

Below is generated by plot.py at 2017-09-22 00:36:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.98 Mbit/s

95th percentile per-packet one-way delay: 106.584 ms

Loss rate: 0.26%

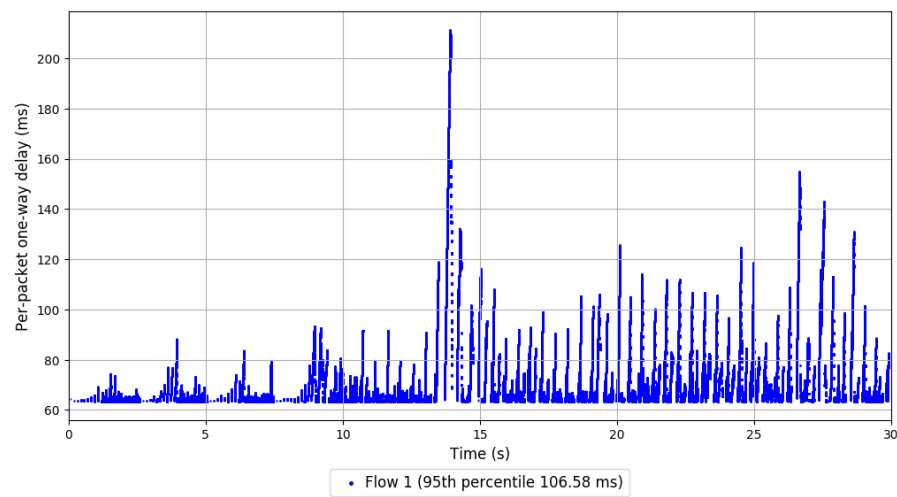
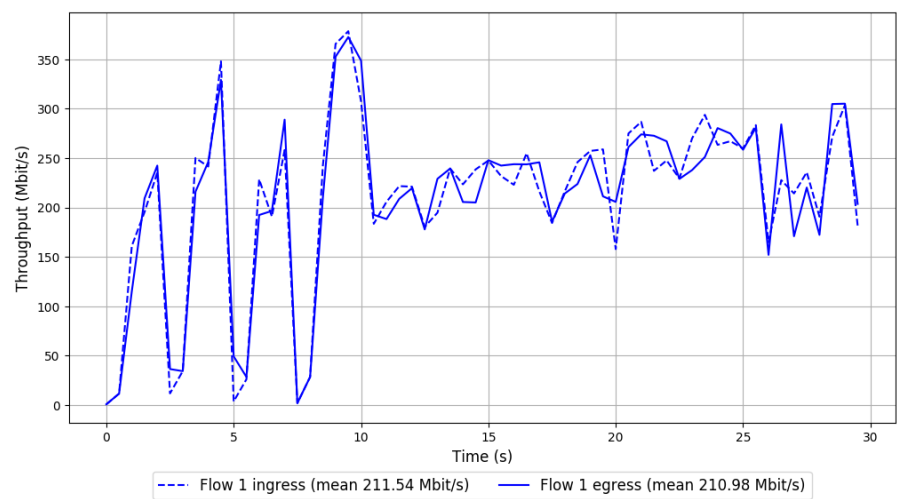
-- Flow 1:

Average throughput: 210.98 Mbit/s

95th percentile per-packet one-way delay: 106.584 ms

Loss rate: 0.26%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-09-21 22:02:14

End at: 2017-09-21 22:02:44

Below is generated by plot.py at 2017-09-22 00:36:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.98 Mbit/s

95th percentile per-packet one-way delay: 178.480 ms

Loss rate: 0.20%

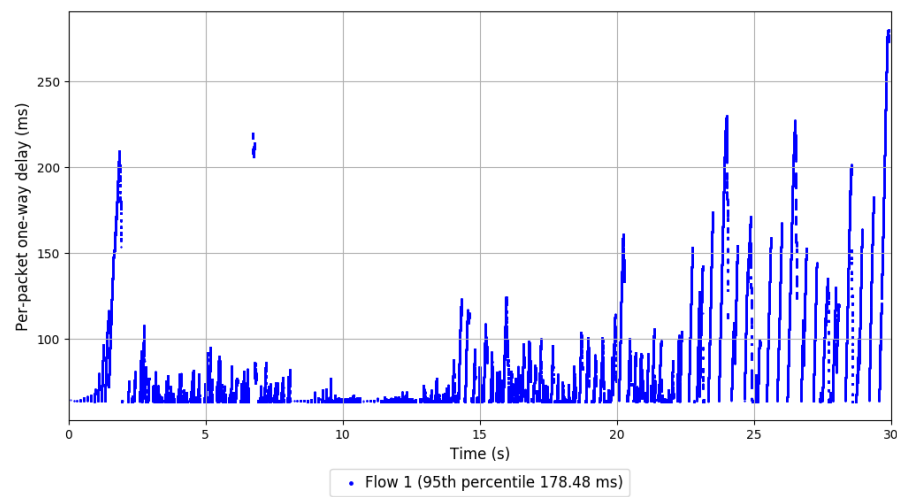
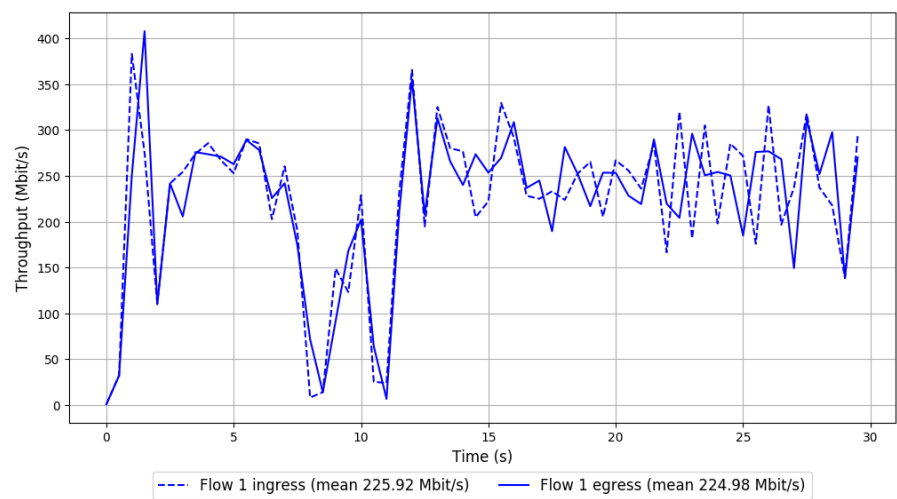
-- Flow 1:

Average throughput: 224.98 Mbit/s

95th percentile per-packet one-way delay: 178.480 ms

Loss rate: 0.20%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-09-21 22:12:56

End at: 2017-09-21 22:13:26

Below is generated by plot.py at 2017-09-22 00:37:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 231.59 Mbit/s

95th percentile per-packet one-way delay: 89.394 ms

Loss rate: 0.01%

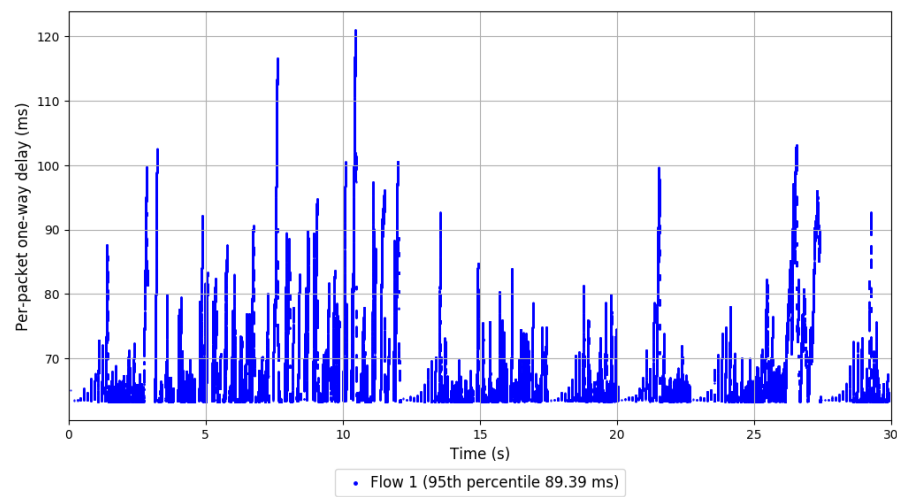
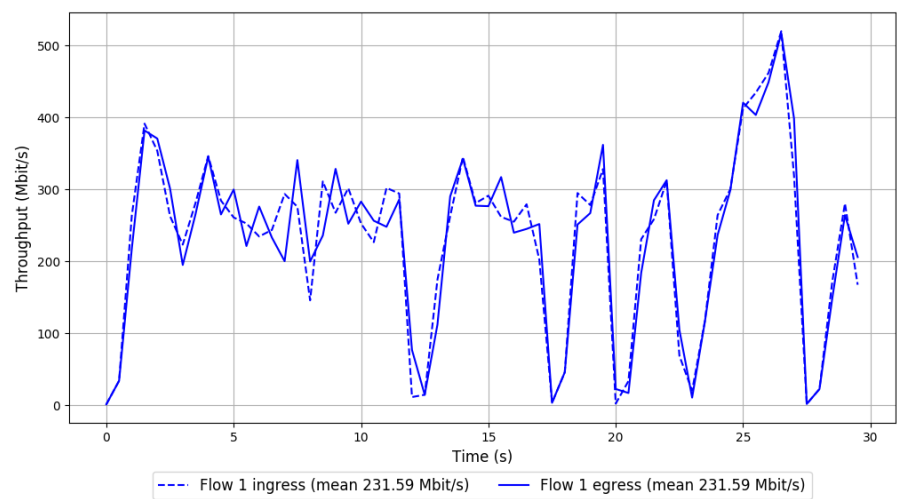
-- Flow 1:

Average throughput: 231.59 Mbit/s

95th percentile per-packet one-way delay: 89.394 ms

Loss rate: 0.01%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-09-21 22:23:38

End at: 2017-09-21 22:24:08

Below is generated by plot.py at 2017-09-22 00:38:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 240.80 Mbit/s

95th percentile per-packet one-way delay: 98.966 ms

Loss rate: 0.00%

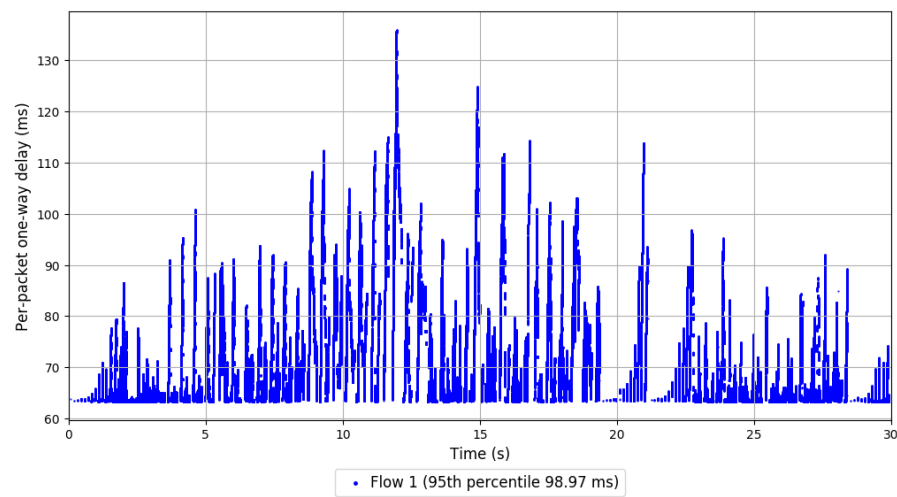
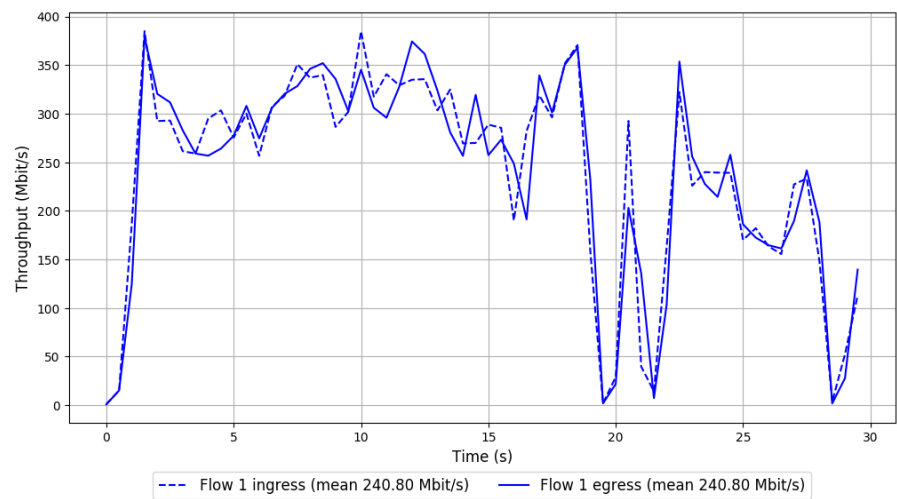
-- Flow 1:

Average throughput: 240.80 Mbit/s

95th percentile per-packet one-way delay: 98.966 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-09-21 22:34:14

End at: 2017-09-21 22:34:44

Below is generated by plot.py at 2017-09-22 00:40:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 273.70 Mbit/s

95th percentile per-packet one-way delay: 139.200 ms

Loss rate: 0.00%

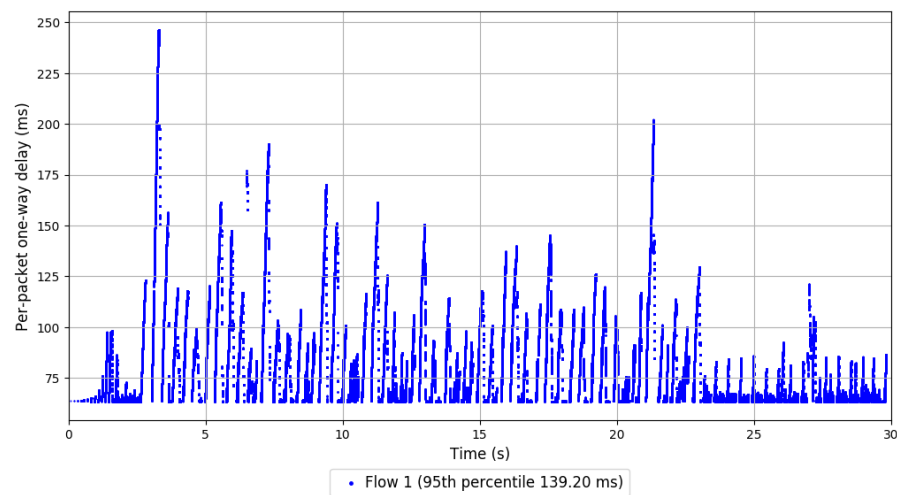
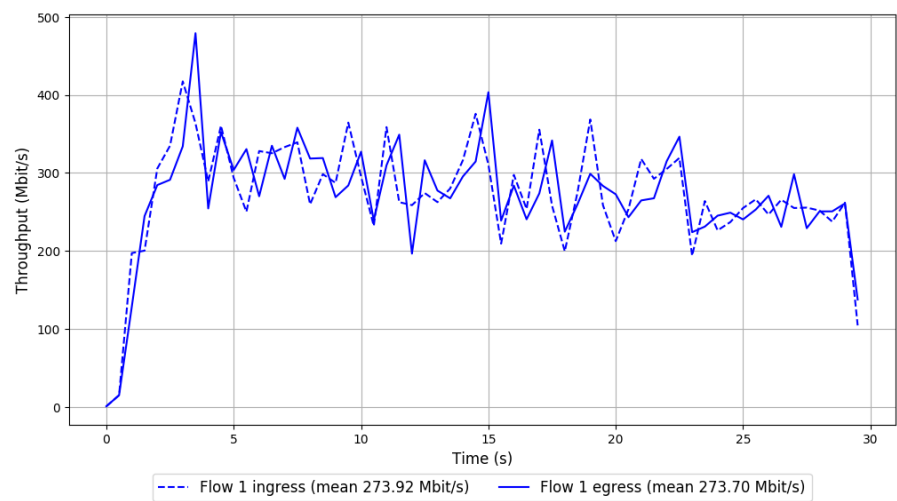
-- Flow 1:

Average throughput: 273.70 Mbit/s

95th percentile per-packet one-way delay: 139.200 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-09-21 22:44:56

End at: 2017-09-21 22:45:26

Below is generated by plot.py at 2017-09-22 00:40:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.66 Mbit/s

95th percentile per-packet one-way delay: 132.218 ms

Loss rate: 0.01%

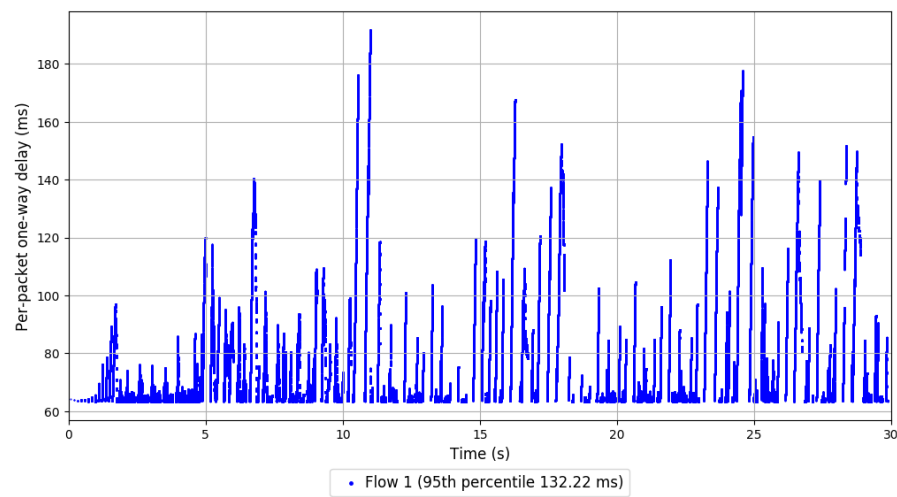
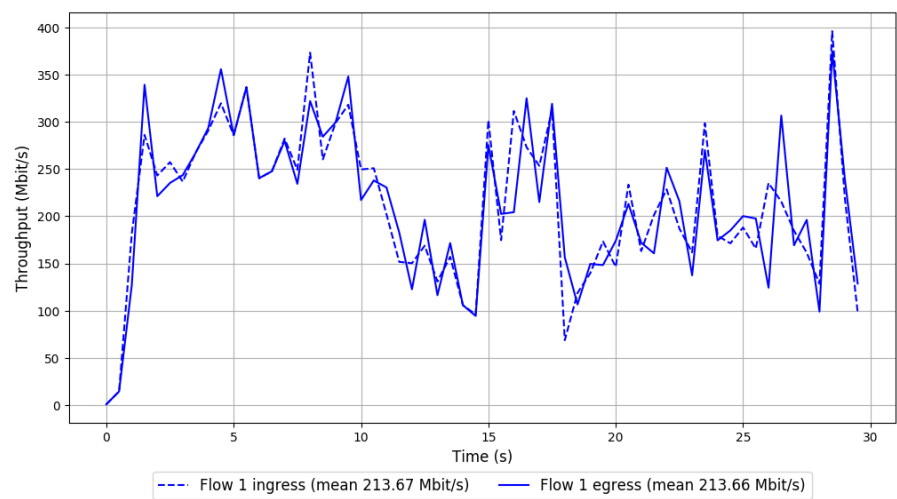
-- Flow 1:

Average throughput: 213.66 Mbit/s

95th percentile per-packet one-way delay: 132.218 ms

Loss rate: 0.01%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-09-21 22:55:27

End at: 2017-09-21 22:55:57

Below is generated by plot.py at 2017-09-22 00:40:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.07 Mbit/s

95th percentile per-packet one-way delay: 103.054 ms

Loss rate: 0.00%

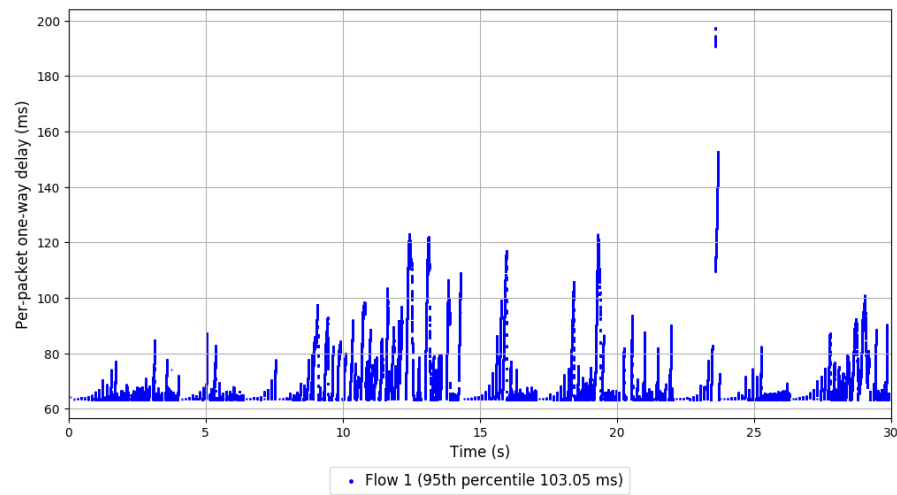
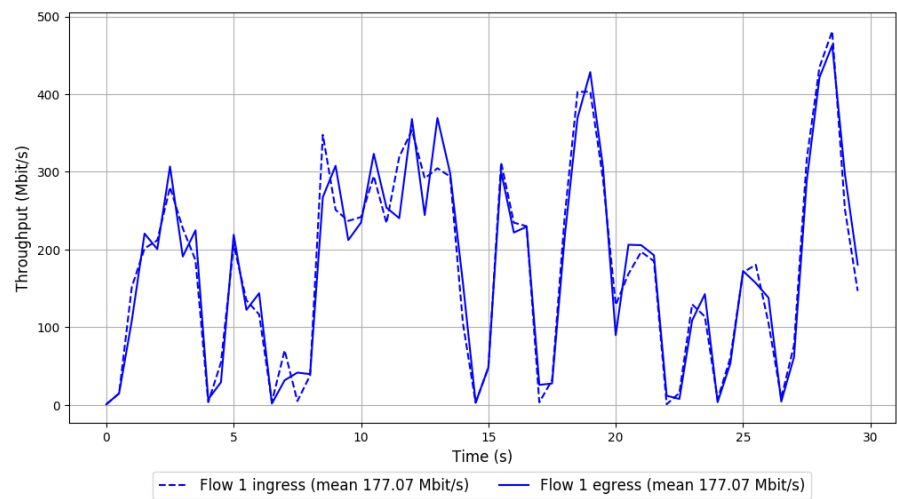
-- Flow 1:

Average throughput: 177.07 Mbit/s

95th percentile per-packet one-way delay: 103.054 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-09-21 23:06:01

End at: 2017-09-21 23:06:31

Below is generated by plot.py at 2017-09-22 00:40:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.86 Mbit/s

95th percentile per-packet one-way delay: 122.610 ms

Loss rate: 0.02%

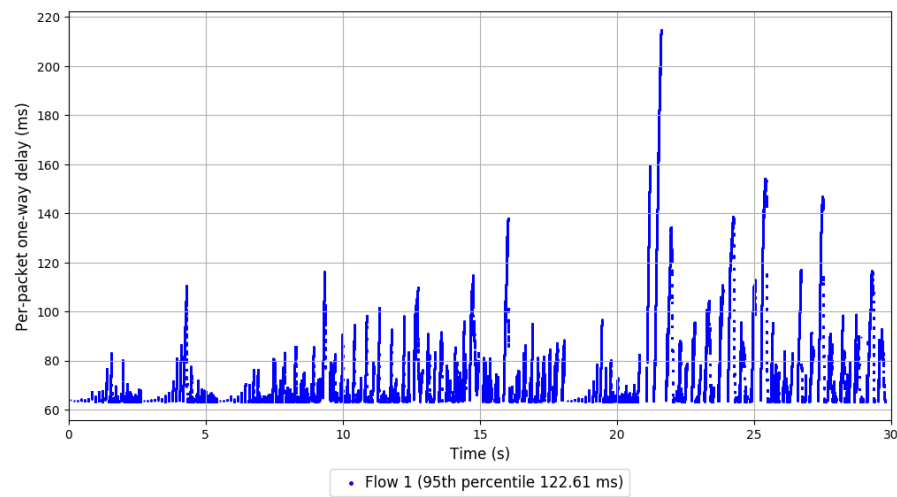
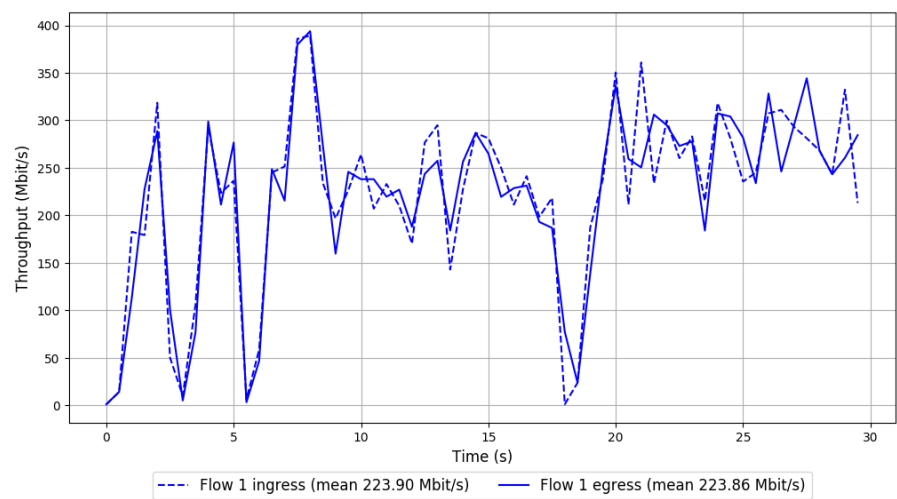
-- Flow 1:

Average throughput: 223.86 Mbit/s

95th percentile per-packet one-way delay: 122.610 ms

Loss rate: 0.02%

Run 10: Report of Verus — Data Link

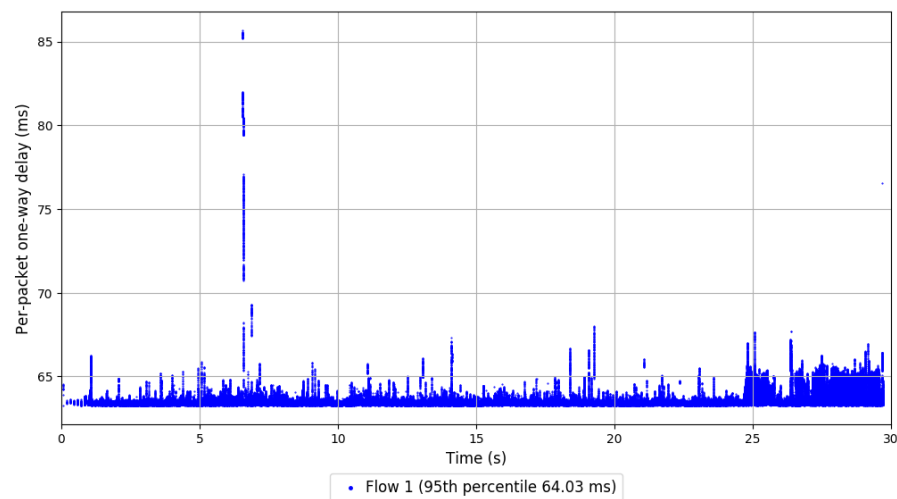
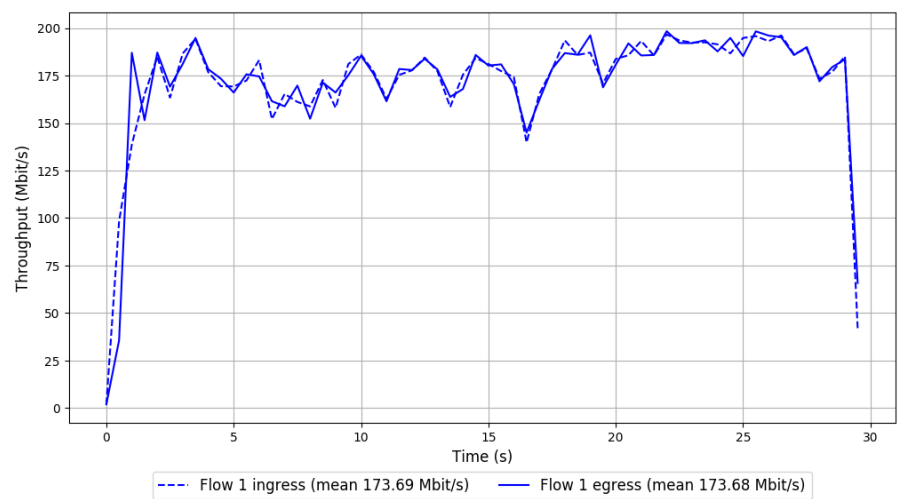


```
Run 1: Statistics of Indigo

Start at: 2017-09-21 21:31:14
End at: 2017-09-21 21:31:44

# Below is generated by plot.py at 2017-09-22 00:40:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 173.68 Mbit/s
95th percentile per-packet one-way delay: 64.032 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 173.68 Mbit/s
95th percentile per-packet one-way delay: 64.032 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-09-21 21:42:05

End at: 2017-09-21 21:42:35

Below is generated by plot.py at 2017-09-22 00:40:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.03 Mbit/s

95th percentile per-packet one-way delay: 63.767 ms

Loss rate: 0.00%

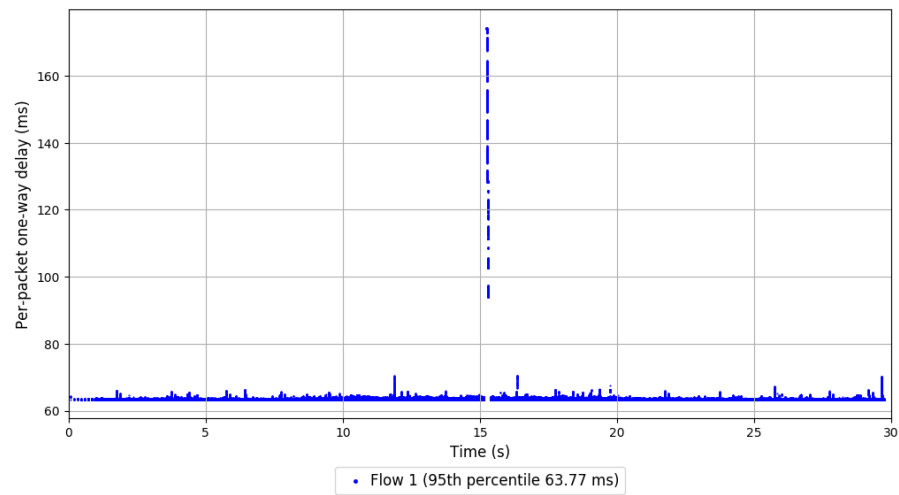
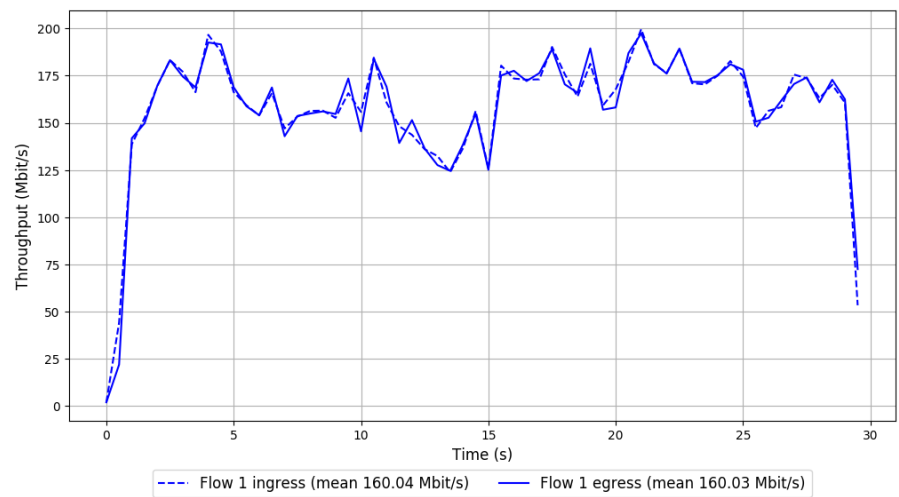
-- Flow 1:

Average throughput: 160.03 Mbit/s

95th percentile per-packet one-way delay: 63.767 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-09-21 21:52:41

End at: 2017-09-21 21:53:11

Below is generated by plot.py at 2017-09-22 00:40:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.74 Mbit/s

95th percentile per-packet one-way delay: 63.591 ms

Loss rate: 0.16%

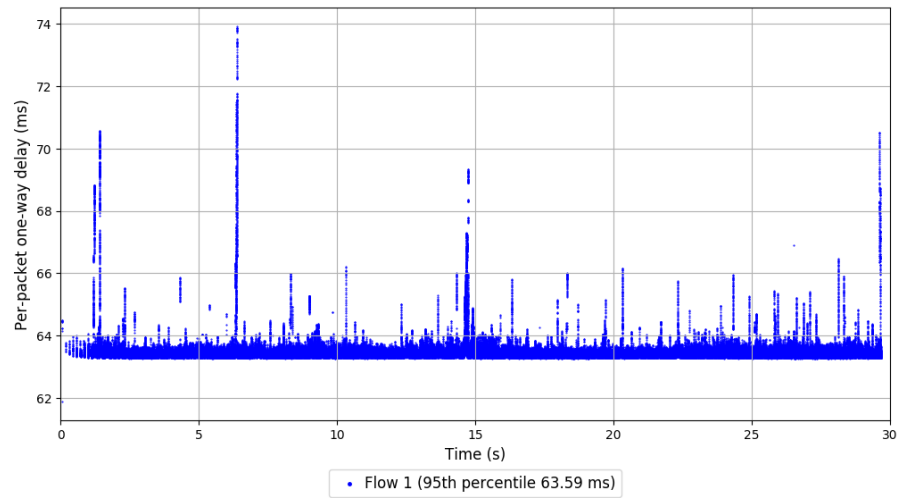
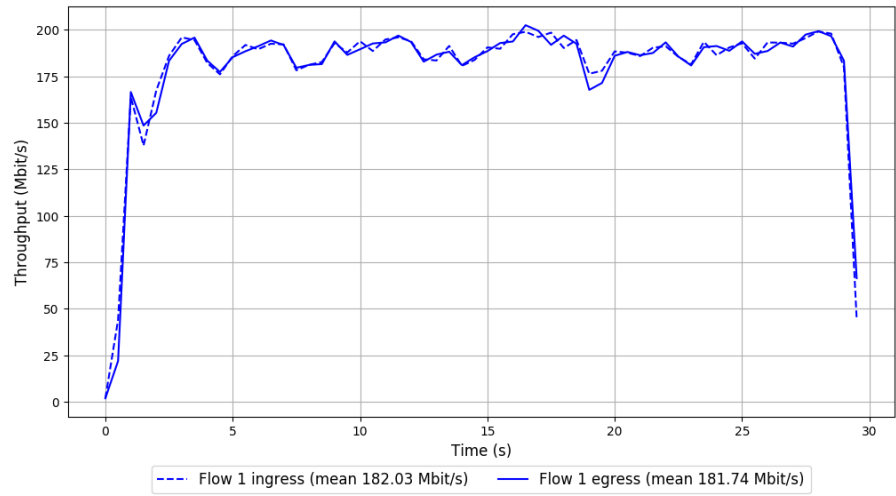
-- Flow 1:

Average throughput: 181.74 Mbit/s

95th percentile per-packet one-way delay: 63.591 ms

Loss rate: 0.16%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-09-21 22:03:08

End at: 2017-09-21 22:03:38

Below is generated by plot.py at 2017-09-22 00:41:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.42 Mbit/s

95th percentile per-packet one-way delay: 64.466 ms

Loss rate: 0.01%

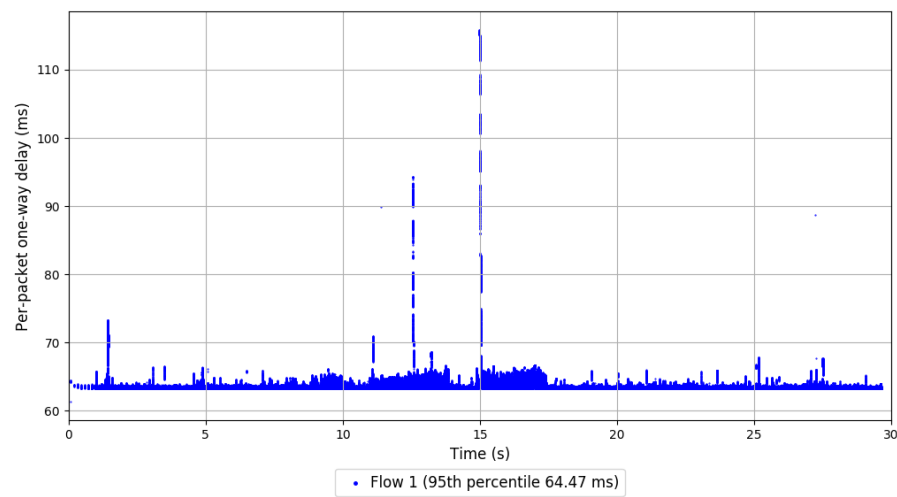
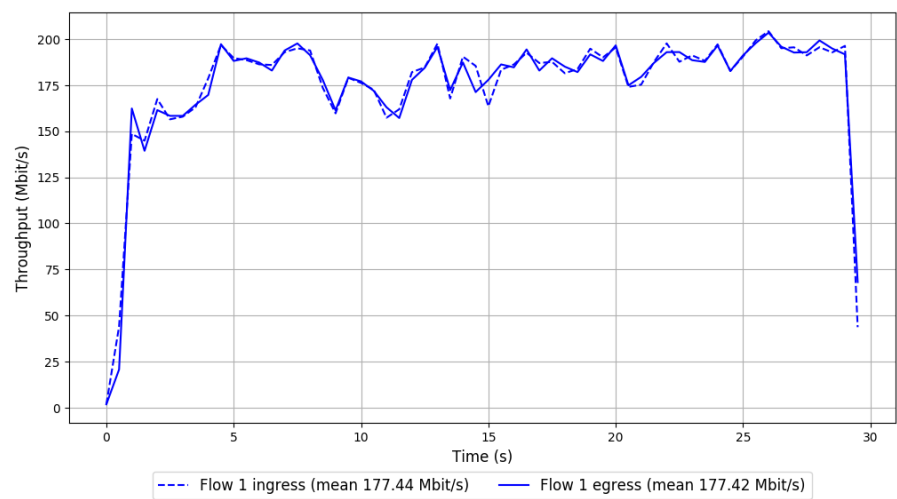
-- Flow 1:

Average throughput: 177.42 Mbit/s

95th percentile per-packet one-way delay: 64.466 ms

Loss rate: 0.01%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-09-21 22:13:51

End at: 2017-09-21 22:14:21

Below is generated by plot.py at 2017-09-22 00:42:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.73 Mbit/s

95th percentile per-packet one-way delay: 63.844 ms

Loss rate: 0.01%

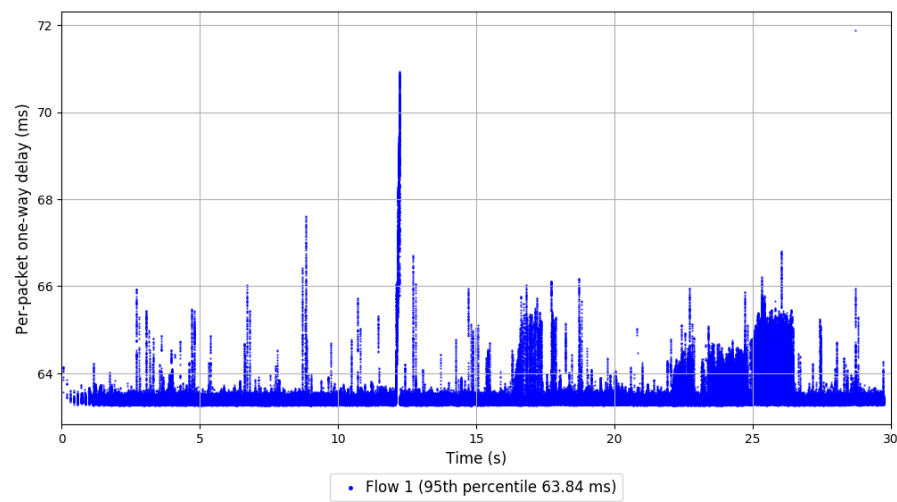
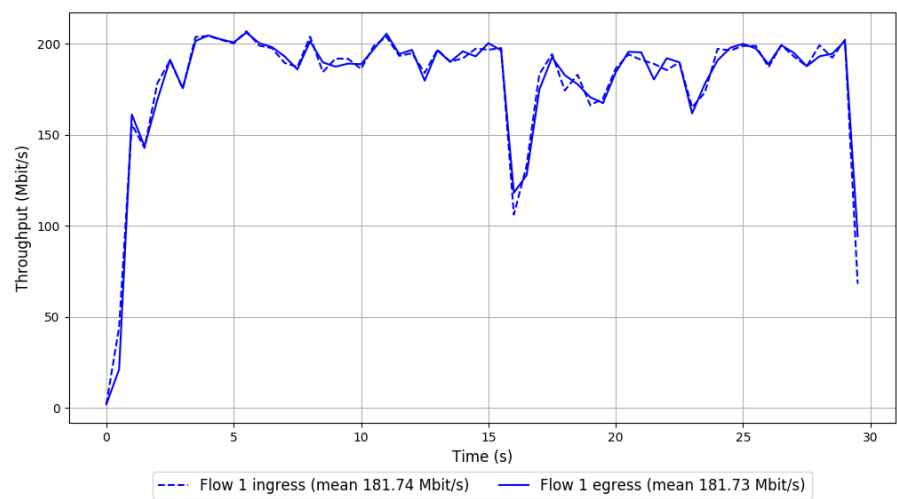
-- Flow 1:

Average throughput: 181.73 Mbit/s

95th percentile per-packet one-way delay: 63.844 ms

Loss rate: 0.01%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-09-21 22:24:33

End at: 2017-09-21 22:25:03

Below is generated by plot.py at 2017-09-22 00:42:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.05 Mbit/s

95th percentile per-packet one-way delay: 63.525 ms

Loss rate: 0.01%

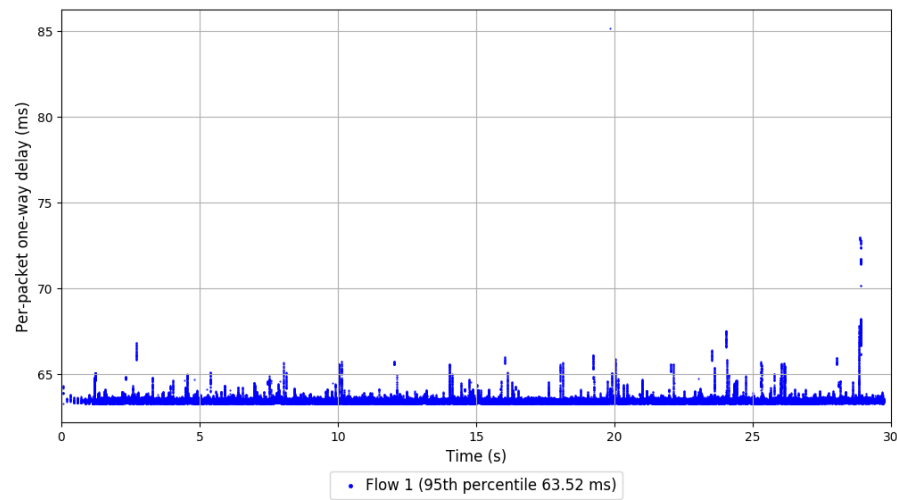
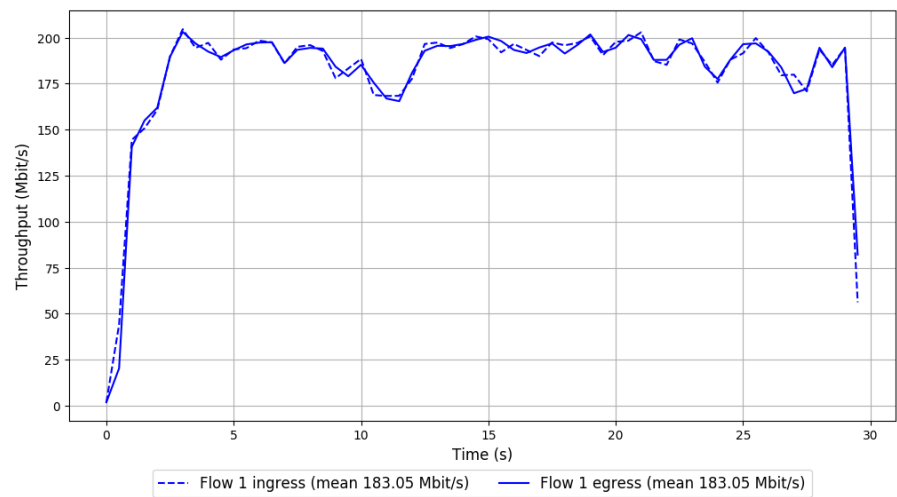
-- Flow 1:

Average throughput: 183.05 Mbit/s

95th percentile per-packet one-way delay: 63.525 ms

Loss rate: 0.01%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-09-21 22:35:12

End at: 2017-09-21 22:35:42

Below is generated by plot.py at 2017-09-22 00:43:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.71 Mbit/s

95th percentile per-packet one-way delay: 63.595 ms

Loss rate: 0.00%

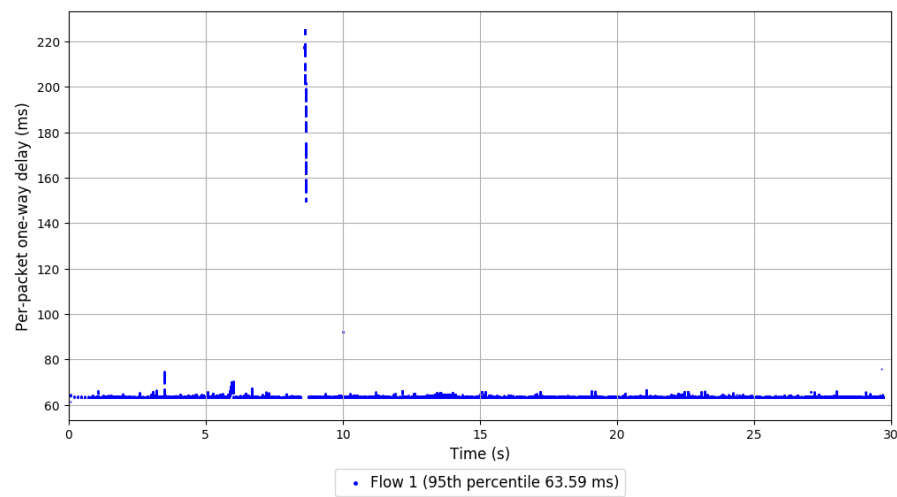
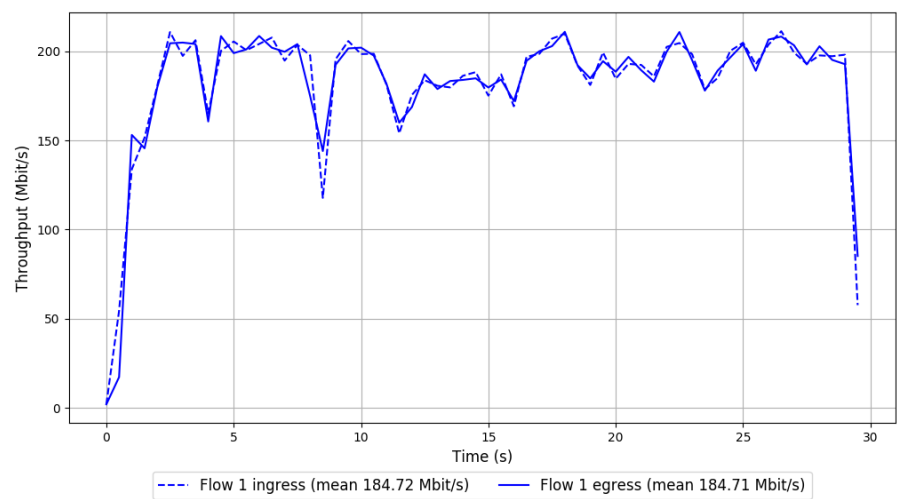
-- Flow 1:

Average throughput: 184.71 Mbit/s

95th percentile per-packet one-way delay: 63.595 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-09-21 22:45:49

End at: 2017-09-21 22:46:19

Below is generated by plot.py at 2017-09-22 00:43:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.73 Mbit/s

95th percentile per-packet one-way delay: 63.521 ms

Loss rate: 0.00%

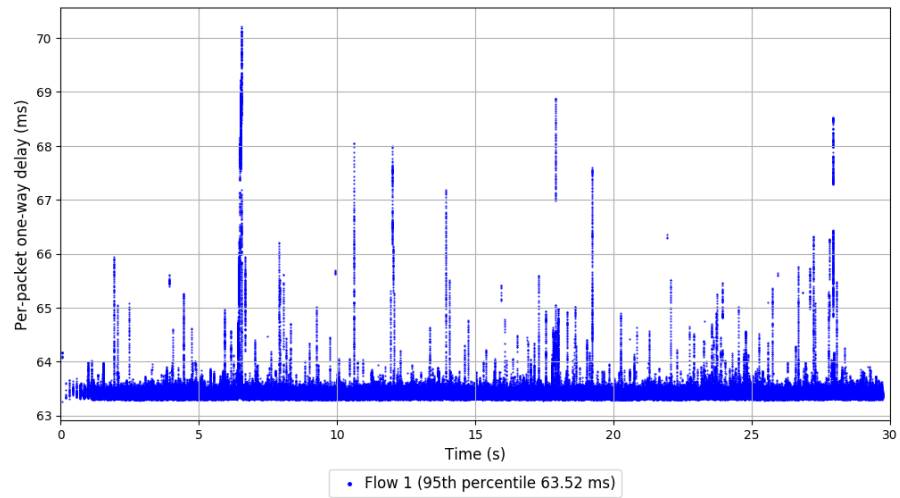
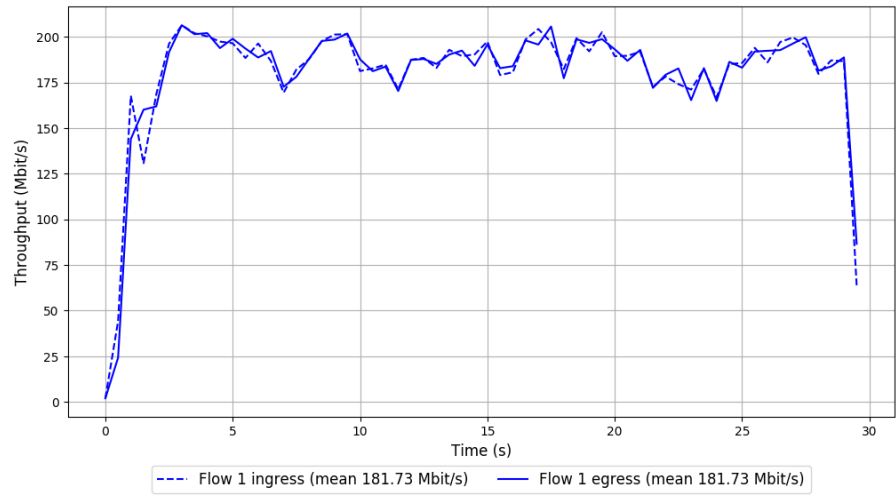
-- Flow 1:

Average throughput: 181.73 Mbit/s

95th percentile per-packet one-way delay: 63.521 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-09-21 22:56:19

End at: 2017-09-21 22:56:49

Below is generated by plot.py at 2017-09-22 00:43:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.89 Mbit/s

95th percentile per-packet one-way delay: 63.587 ms

Loss rate: 0.00%

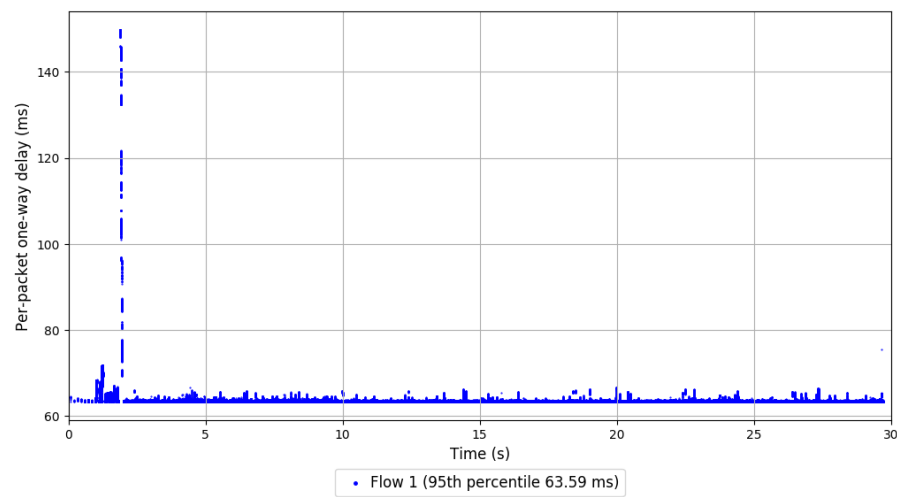
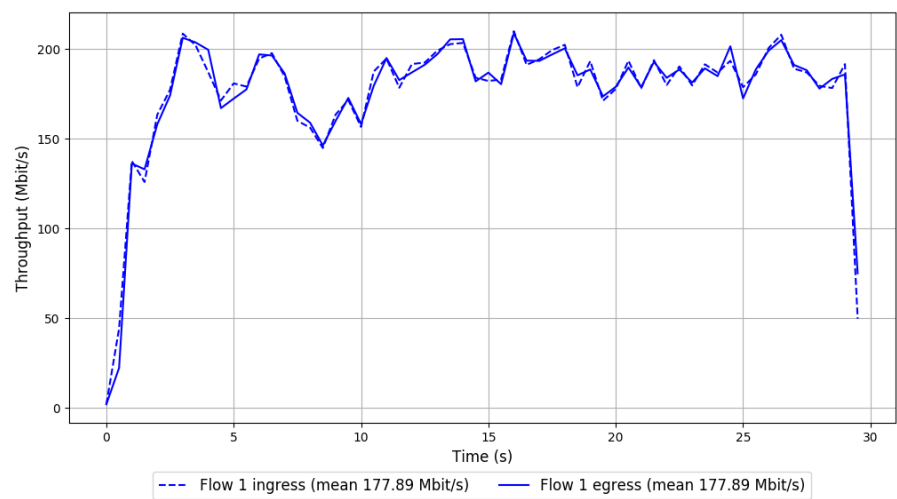
-- Flow 1:

Average throughput: 177.89 Mbit/s

95th percentile per-packet one-way delay: 63.587 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-09-21 23:06:55

End at: 2017-09-21 23:07:25

Below is generated by plot.py at 2017-09-22 00:44:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.59 Mbit/s

95th percentile per-packet one-way delay: 63.560 ms

Loss rate: 0.12%

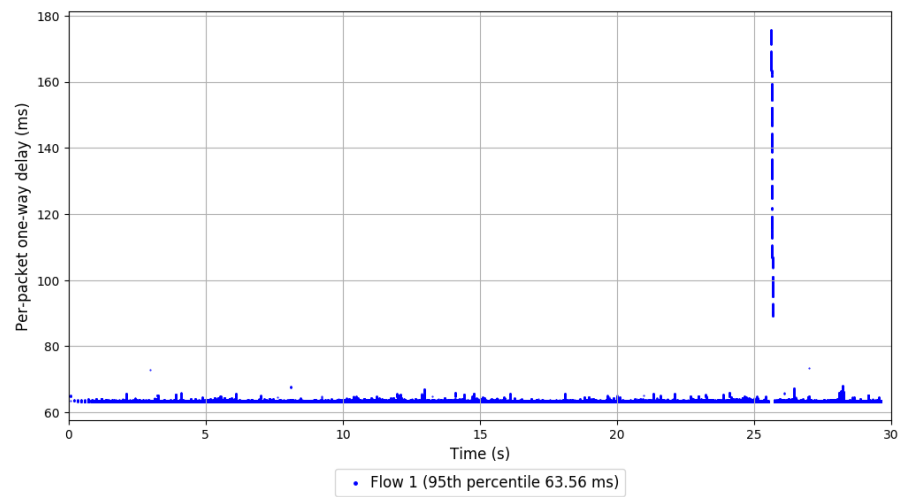
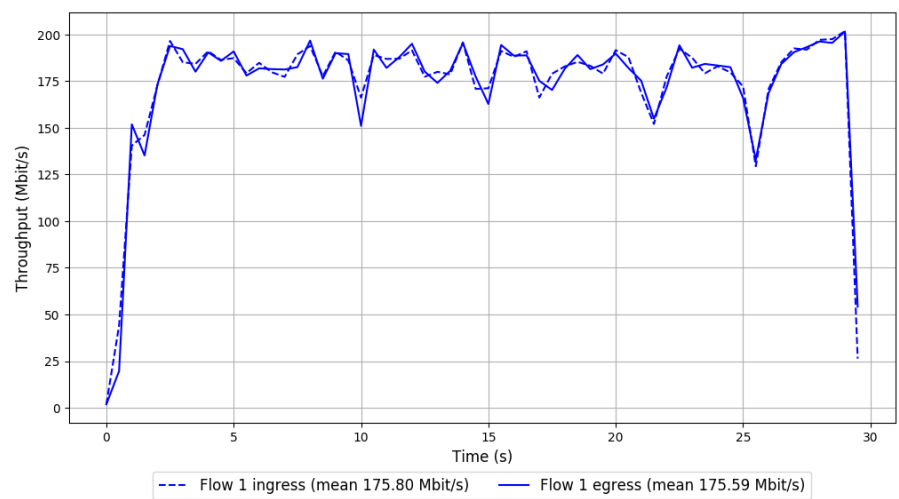
-- Flow 1:

Average throughput: 175.59 Mbit/s

95th percentile per-packet one-way delay: 63.560 ms

Loss rate: 0.12%

Run 10: Report of Indigo — Data Link

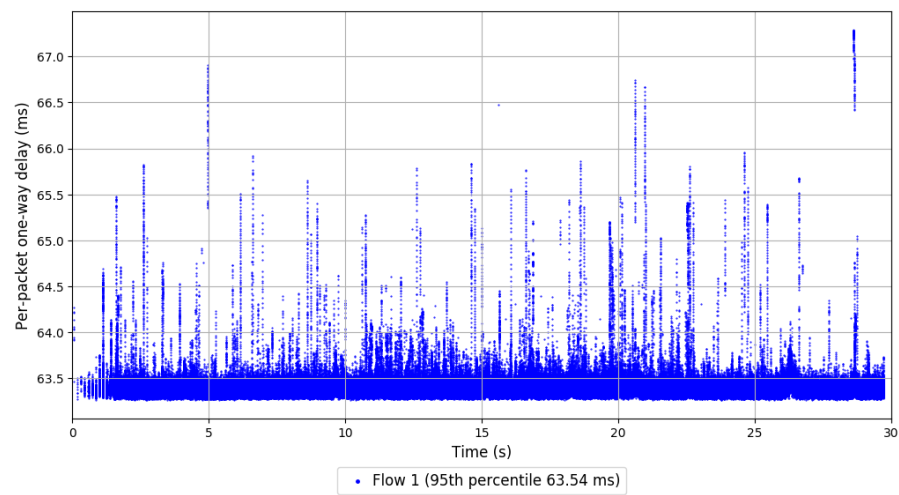
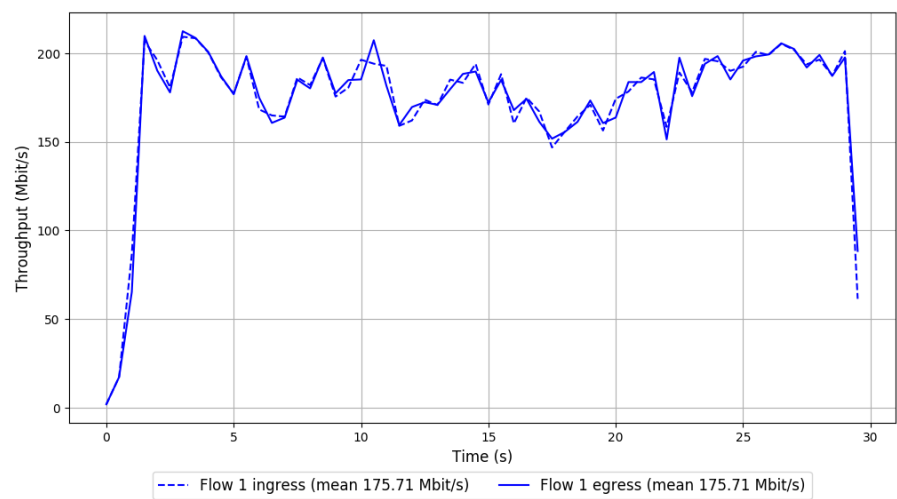


```
Run 1: Statistics of Indigo-calib

Start at: 2017-09-21 21:32:05
End at: 2017-09-21 21:32:35

# Below is generated by plot.py at 2017-09-22 00:44:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 175.71 Mbit/s
95th percentile per-packet one-way delay: 63.541 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 175.71 Mbit/s
95th percentile per-packet one-way delay: 63.541 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-calib — Data Link

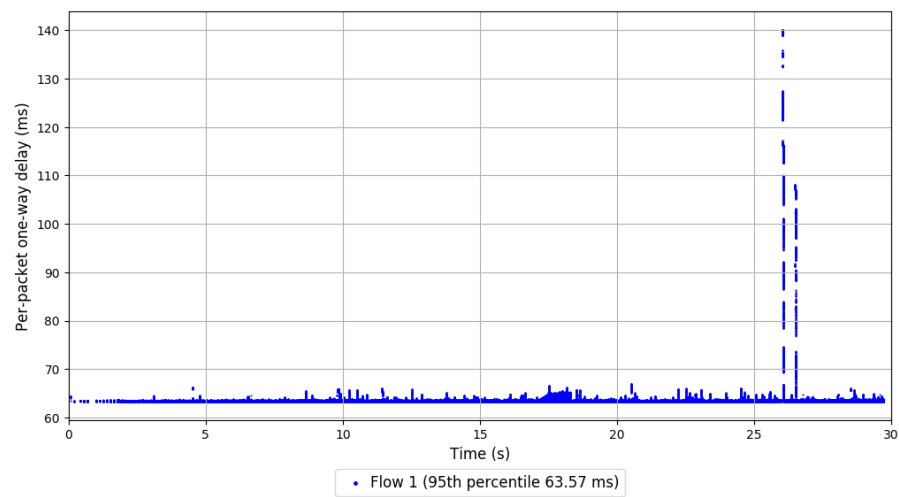
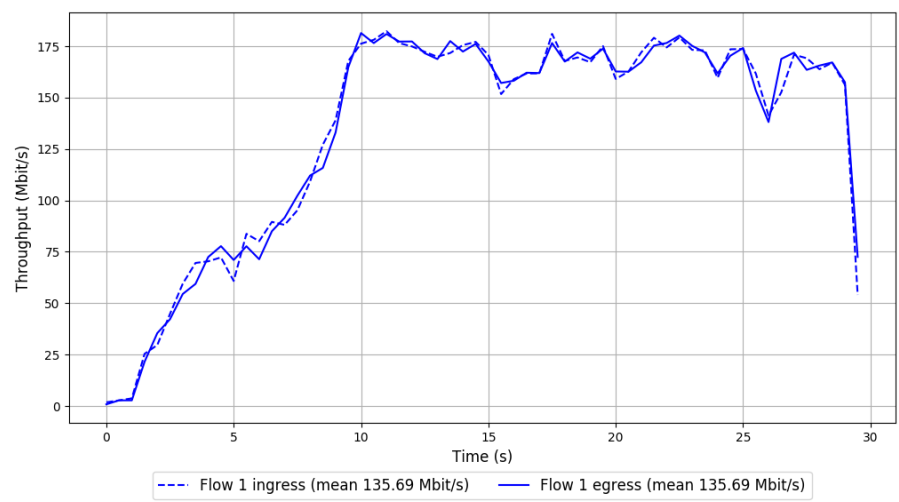


```
Run 2: Statistics of Indigo-calib

Start at: 2017-09-21 21:42:55
End at: 2017-09-21 21:43:25

# Below is generated by plot.py at 2017-09-22 00:44:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 135.69 Mbit/s
95th percentile per-packet one-way delay: 63.573 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 135.69 Mbit/s
95th percentile per-packet one-way delay: 63.573 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-calib — Data Link

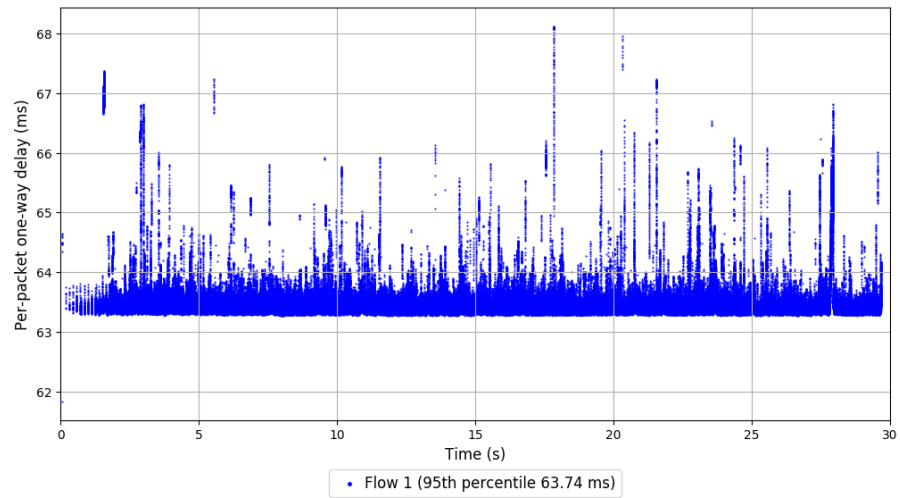
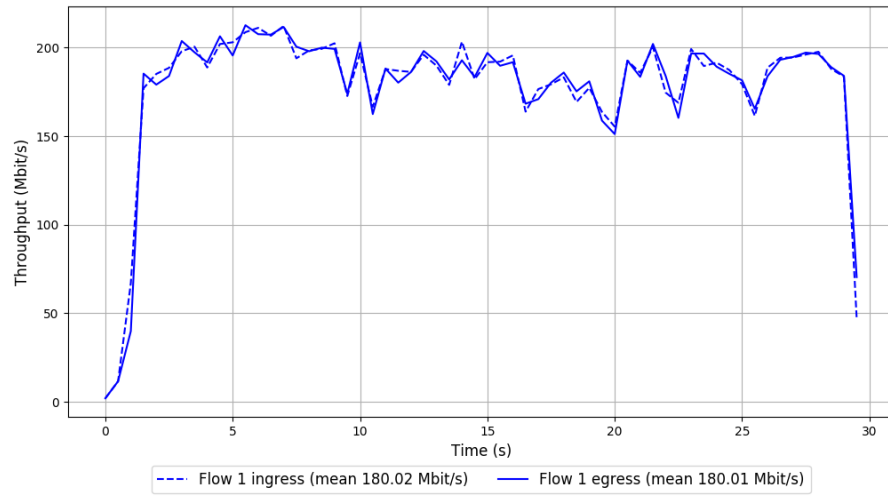


```
Run 3: Statistics of Indigo-calib

Start at: 2017-09-21 21:53:32
End at: 2017-09-21 21:54:02

# Below is generated by plot.py at 2017-09-22 00:46:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 180.01 Mbit/s
95th percentile per-packet one-way delay: 63.739 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 180.01 Mbit/s
95th percentile per-packet one-way delay: 63.739 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-09-21 22:03:58

End at: 2017-09-21 22:04:28

Below is generated by plot.py at 2017-09-22 00:46:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.42 Mbit/s

95th percentile per-packet one-way delay: 63.628 ms

Loss rate: 0.00%

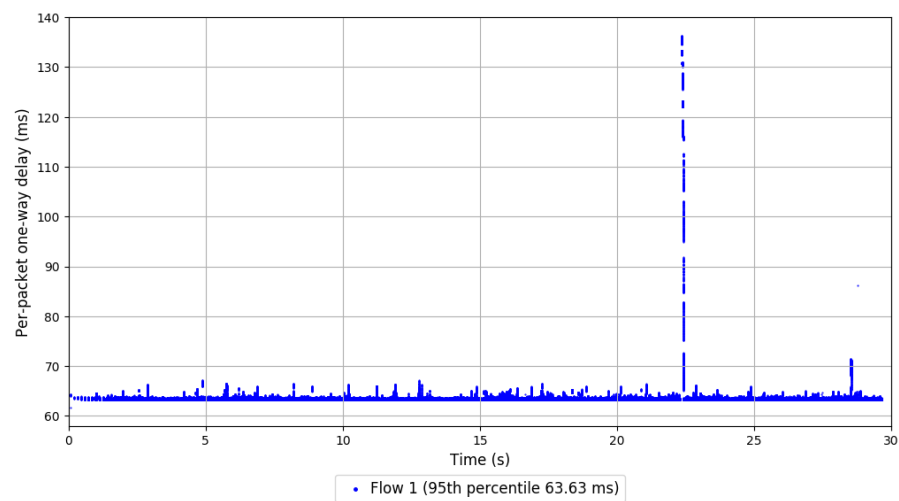
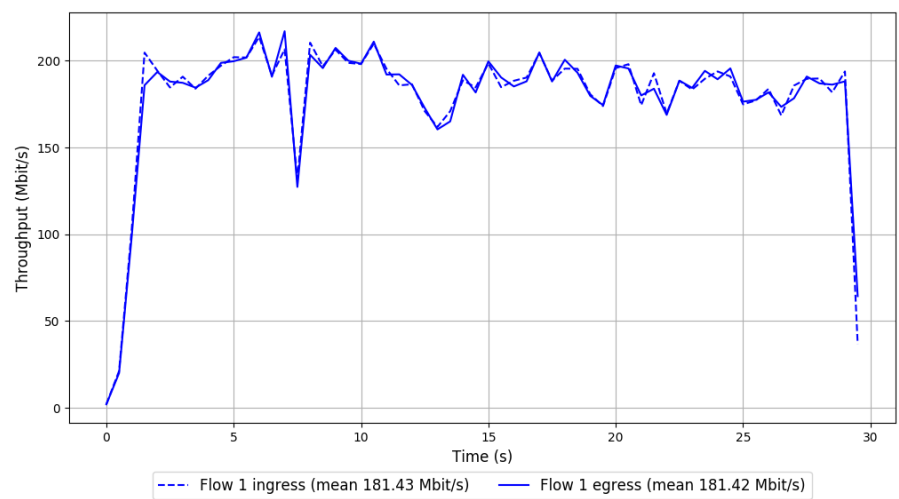
-- Flow 1:

Average throughput: 181.42 Mbit/s

95th percentile per-packet one-way delay: 63.628 ms

Loss rate: 0.00%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-09-21 22:14:41

End at: 2017-09-21 22:15:11

Below is generated by plot.py at 2017-09-22 00:46:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.82 Mbit/s

95th percentile per-packet one-way delay: 63.508 ms

Loss rate: 0.00%

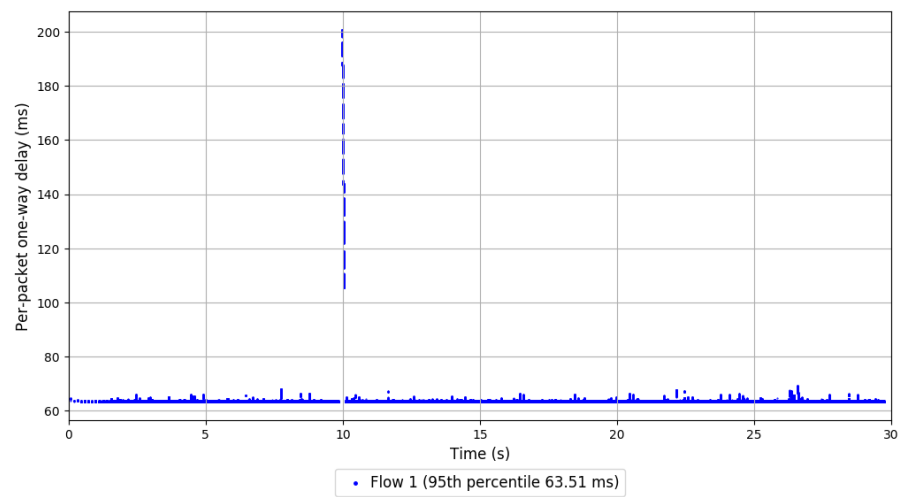
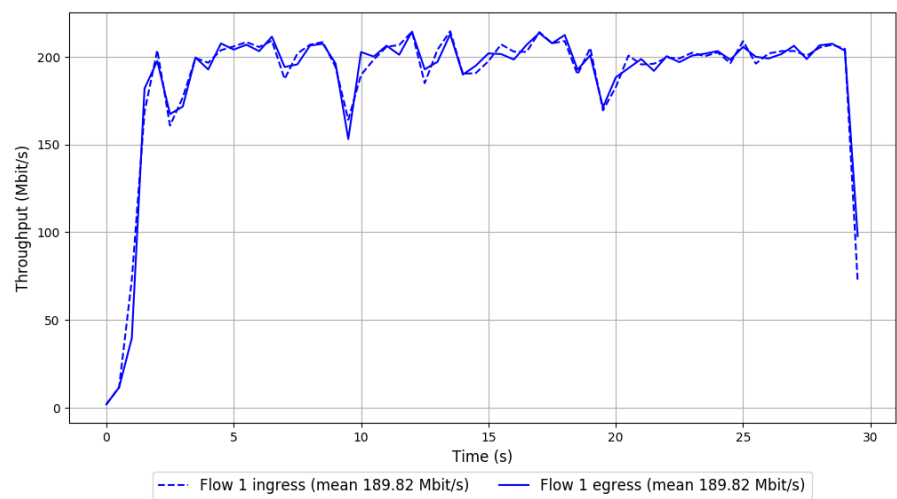
-- Flow 1:

Average throughput: 189.82 Mbit/s

95th percentile per-packet one-way delay: 63.508 ms

Loss rate: 0.00%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-09-21 22:25:25

End at: 2017-09-21 22:25:55

Below is generated by plot.py at 2017-09-22 00:47:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.47 Mbit/s

95th percentile per-packet one-way delay: 63.511 ms

Loss rate: 0.01%

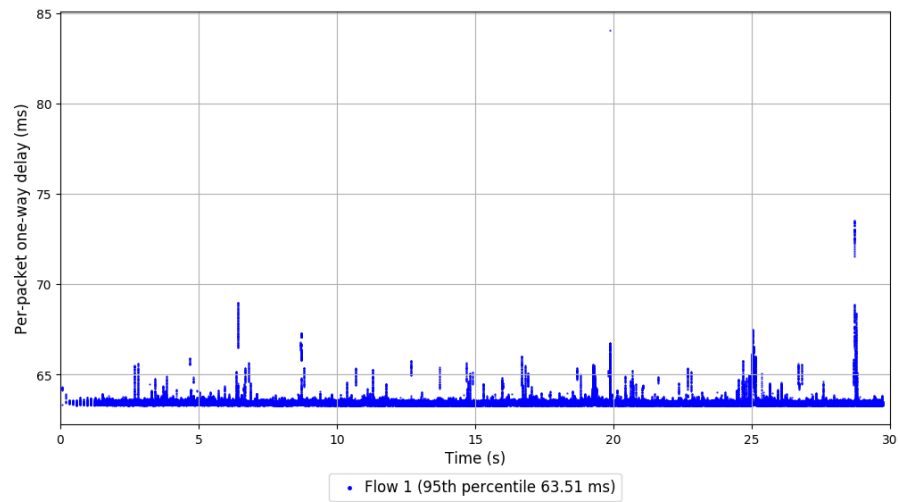
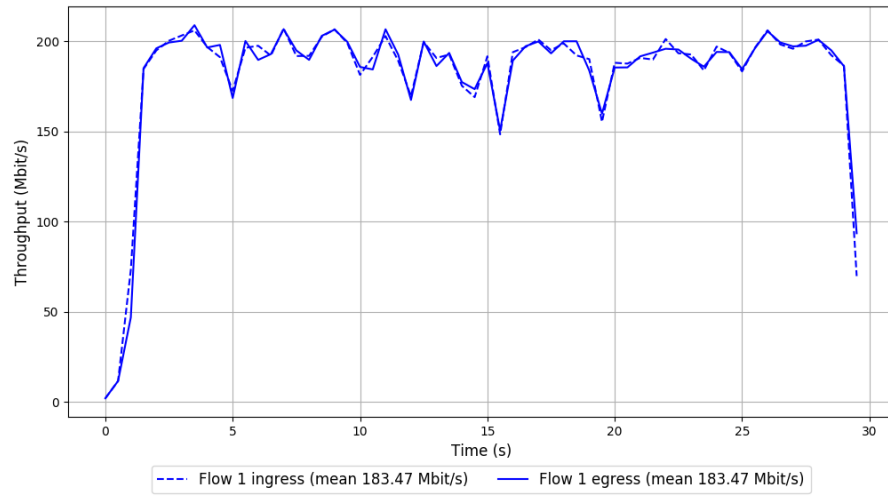
-- Flow 1:

Average throughput: 183.47 Mbit/s

95th percentile per-packet one-way delay: 63.511 ms

Loss rate: 0.01%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-09-21 22:36:03

End at: 2017-09-21 22:36:33

Below is generated by plot.py at 2017-09-22 00:47:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.33 Mbit/s

95th percentile per-packet one-way delay: 63.568 ms

Loss rate: 0.00%

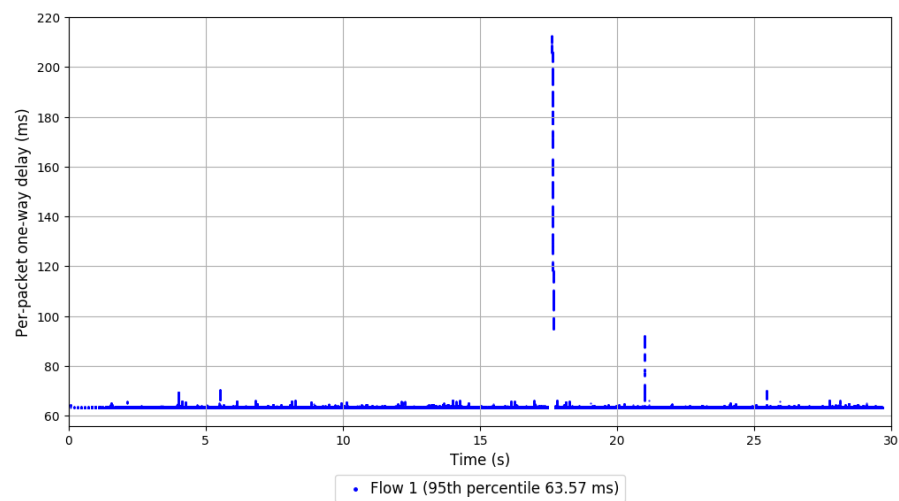
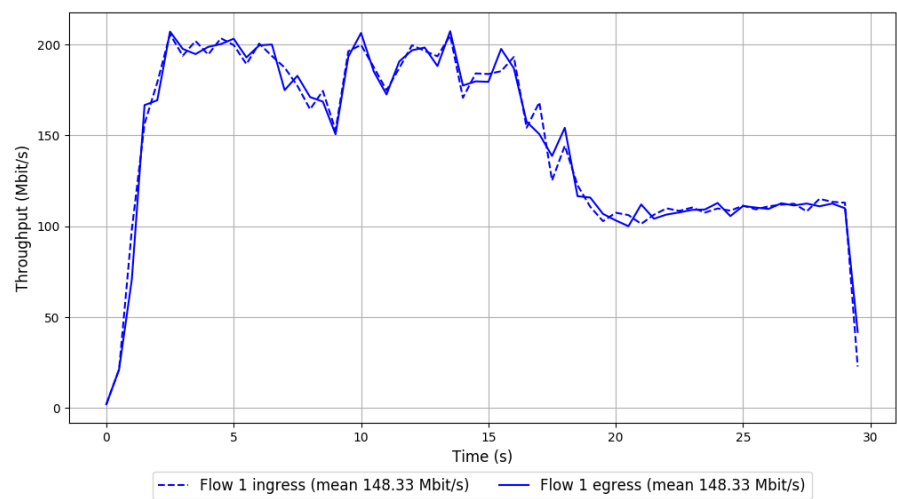
-- Flow 1:

Average throughput: 148.33 Mbit/s

95th percentile per-packet one-way delay: 63.568 ms

Loss rate: 0.00%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-09-21 22:46:40

End at: 2017-09-21 22:47:10

Below is generated by plot.py at 2017-09-22 00:47:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.61 Mbit/s

95th percentile per-packet one-way delay: 63.533 ms

Loss rate: 0.00%

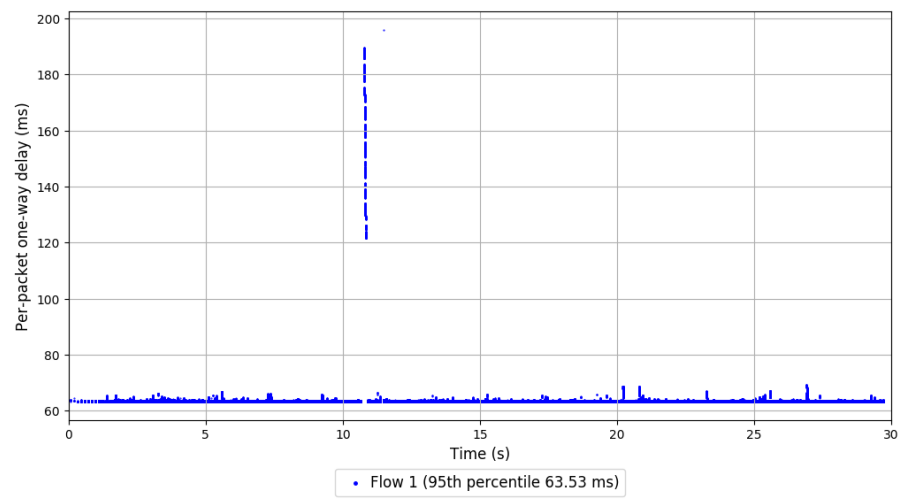
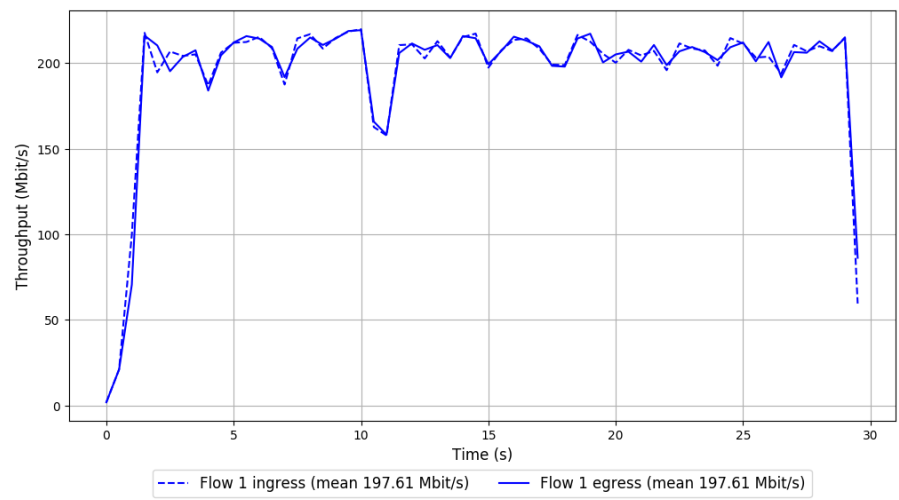
-- Flow 1:

Average throughput: 197.61 Mbit/s

95th percentile per-packet one-way delay: 63.533 ms

Loss rate: 0.00%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-09-21 22:57:09

End at: 2017-09-21 22:57:39

Below is generated by plot.py at 2017-09-22 00:48:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.35 Mbit/s

95th percentile per-packet one-way delay: 63.581 ms

Loss rate: 0.00%

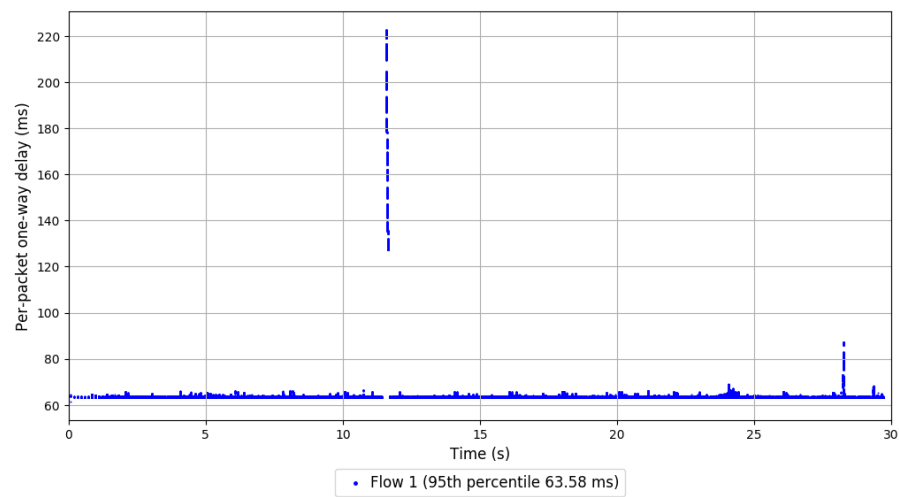
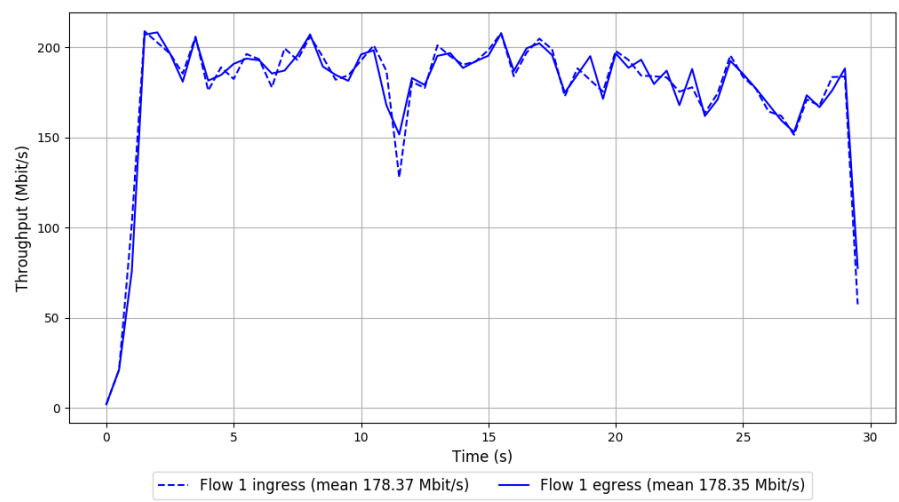
-- Flow 1:

Average throughput: 178.35 Mbit/s

95th percentile per-packet one-way delay: 63.581 ms

Loss rate: 0.00%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-09-21 23:07:45

End at: 2017-09-21 23:08:15

Below is generated by plot.py at 2017-09-22 00:48:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.06 Mbit/s

95th percentile per-packet one-way delay: 63.568 ms

Loss rate: 0.00%

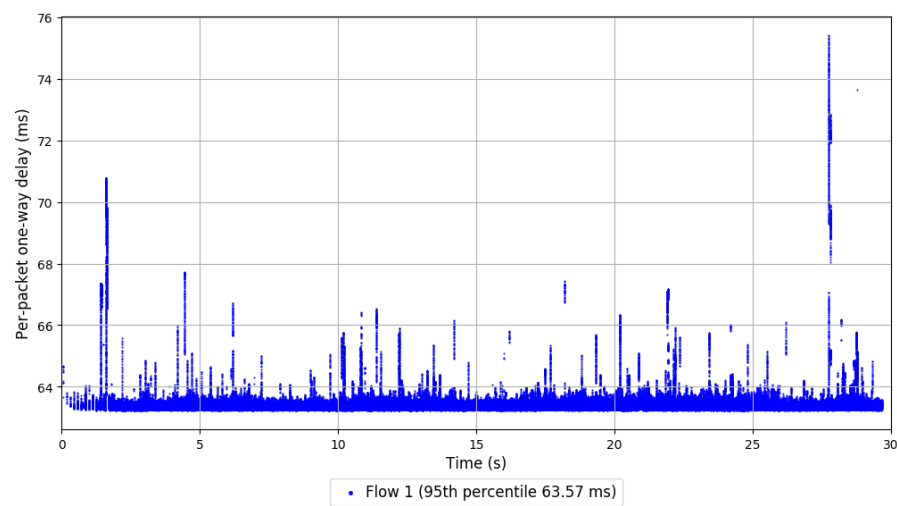
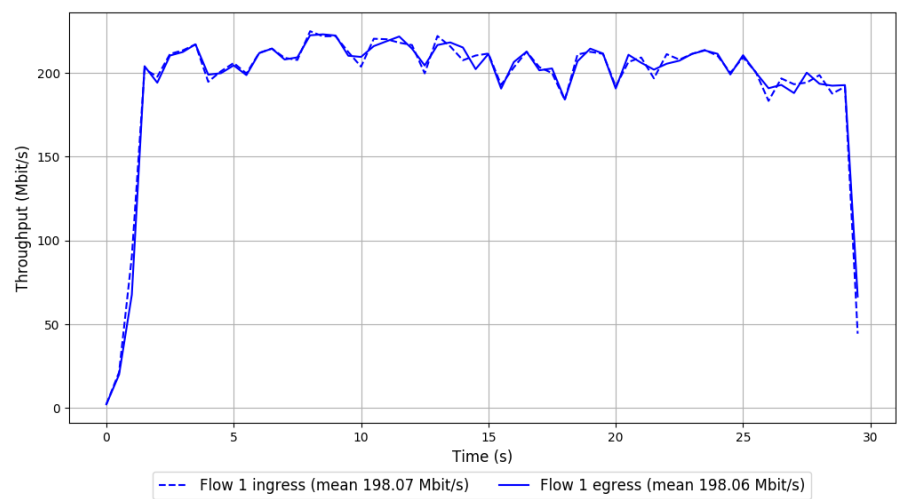
-- Flow 1:

Average throughput: 198.06 Mbit/s

95th percentile per-packet one-way delay: 63.568 ms

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

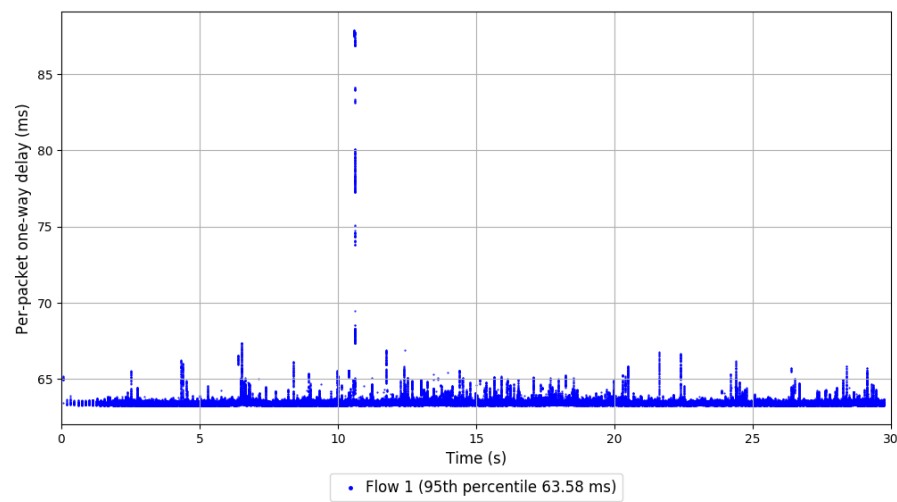
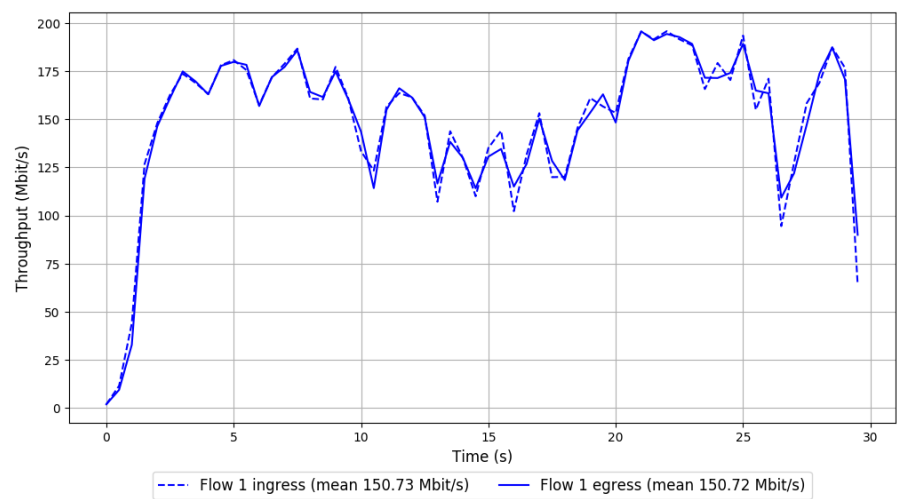


```
Run 1: Statistics of Indigo-delay

Start at: 2017-09-21 21:28:11
End at: 2017-09-21 21:28:41

# Below is generated by plot.py at 2017-09-22 00:49:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 150.72 Mbit/s
95th percentile per-packet one-way delay: 63.577 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 150.72 Mbit/s
95th percentile per-packet one-way delay: 63.577 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-delay — Data Link

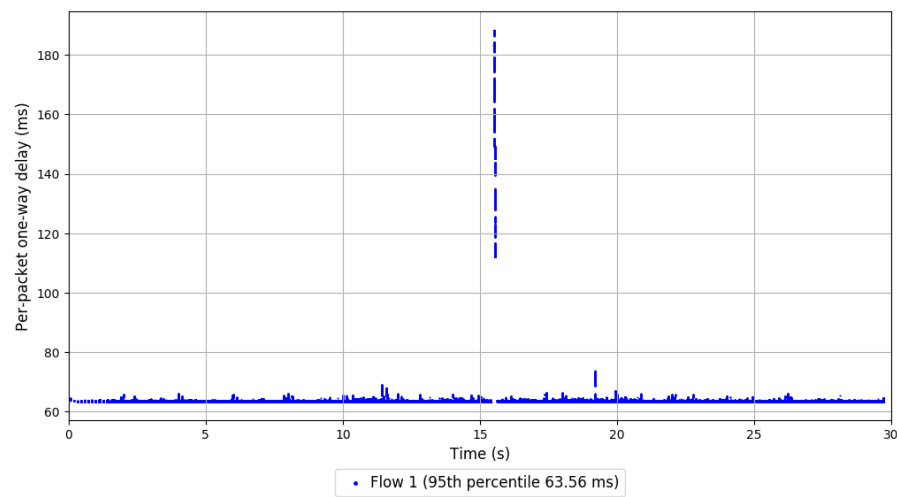
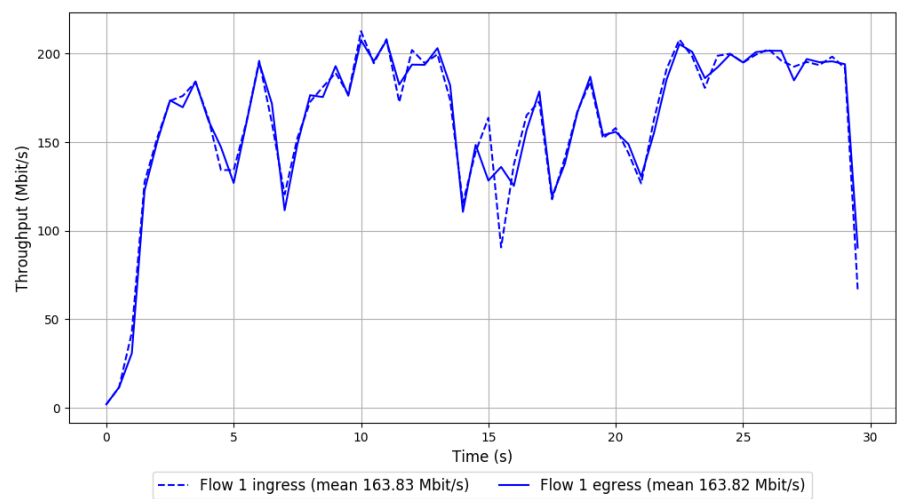


```
Run 2: Statistics of Indigo-delay

Start at: 2017-09-21 21:39:05
End at: 2017-09-21 21:39:35

# Below is generated by plot.py at 2017-09-22 00:49:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 163.82 Mbit/s
95th percentile per-packet one-way delay: 63.561 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 163.82 Mbit/s
95th percentile per-packet one-way delay: 63.561 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-delay — Data Link

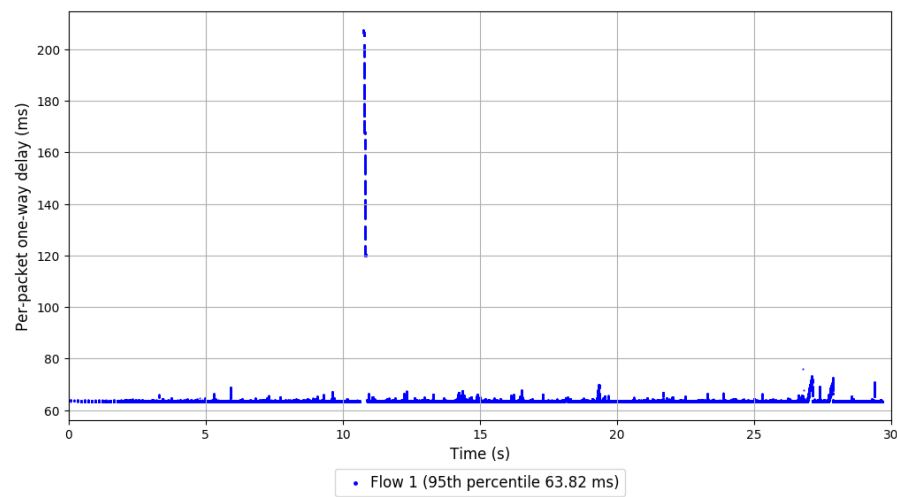
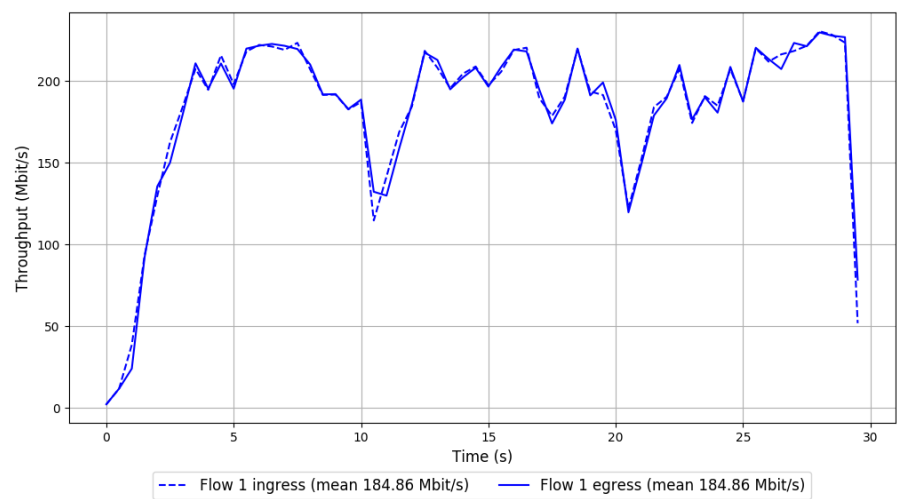


```
Run 3: Statistics of Indigo-delay

Start at: 2017-09-21 21:49:40
End at: 2017-09-21 21:50:10

# Below is generated by plot.py at 2017-09-22 00:50:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 184.86 Mbit/s
95th percentile per-packet one-way delay: 63.822 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 184.86 Mbit/s
95th percentile per-packet one-way delay: 63.822 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-delay — Data Link



Run 4: Statistics of Indigo-delay

Start at: 2017-09-21 22:00:08

End at: 2017-09-21 22:00:38

Below is generated by plot.py at 2017-09-22 00:50:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.86 Mbit/s

95th percentile per-packet one-way delay: 63.763 ms

Loss rate: 0.01%

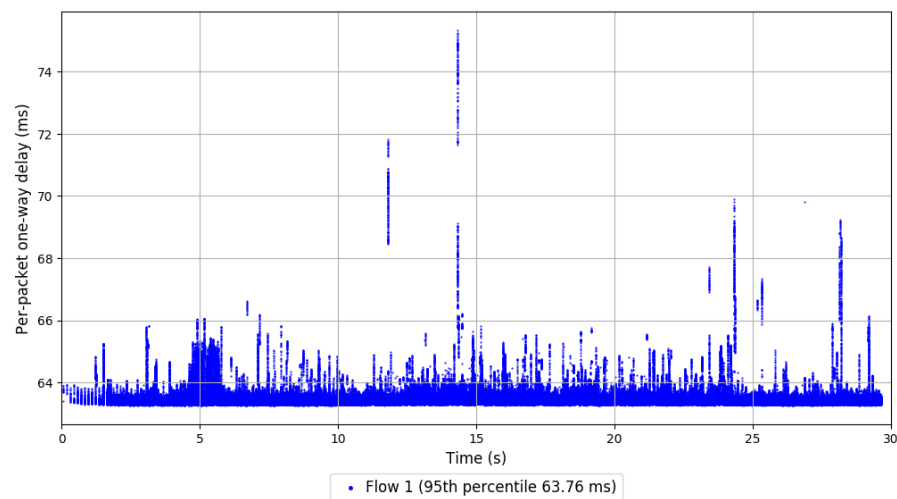
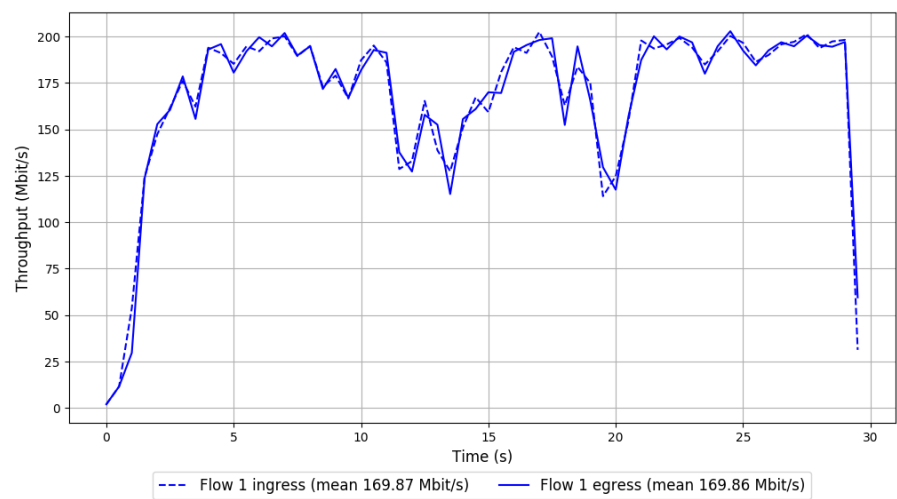
-- Flow 1:

Average throughput: 169.86 Mbit/s

95th percentile per-packet one-way delay: 63.763 ms

Loss rate: 0.01%

Run 4: Report of Indigo-delay — Data Link

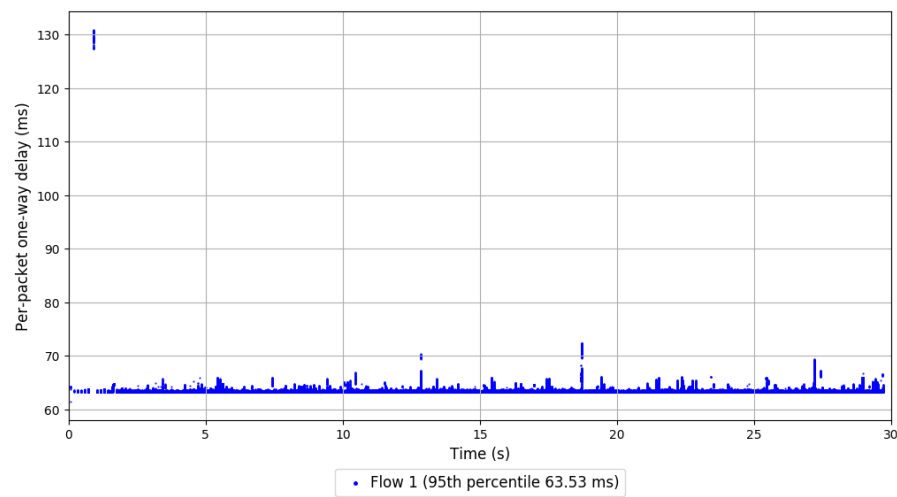
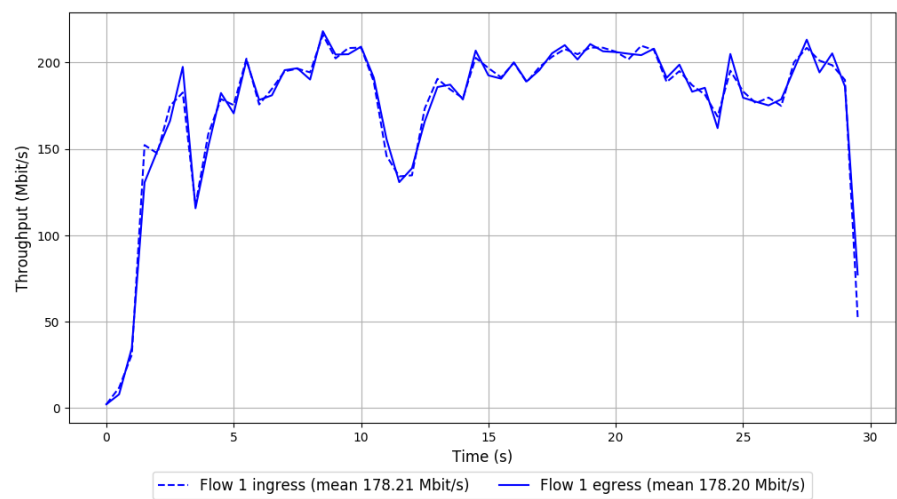


```
Run 5: Statistics of Indigo-delay

Start at: 2017-09-21 22:10:50
End at: 2017-09-21 22:11:20

# Below is generated by plot.py at 2017-09-22 00:50:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 178.20 Mbit/s
95th percentile per-packet one-way delay: 63.533 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 178.20 Mbit/s
95th percentile per-packet one-way delay: 63.533 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-delay — Data Link



Run 6: Statistics of Indigo-delay

Start at: 2017-09-21 22:21:32

End at: 2017-09-21 22:22:02

Below is generated by plot.py at 2017-09-22 00:50:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.66 Mbit/s

95th percentile per-packet one-way delay: 63.936 ms

Loss rate: 0.01%

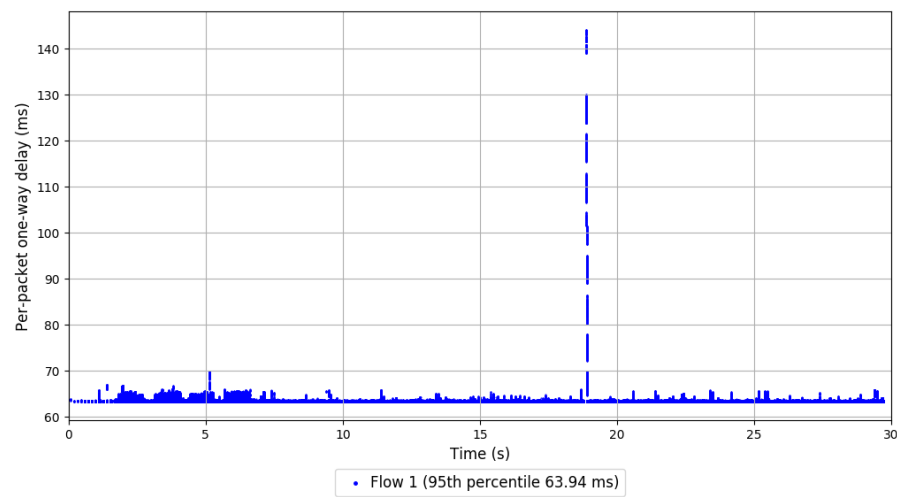
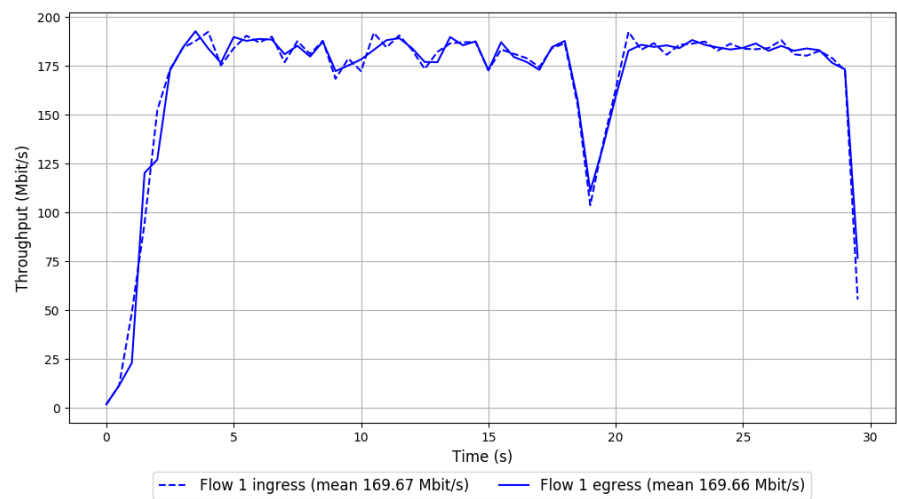
-- Flow 1:

Average throughput: 169.66 Mbit/s

95th percentile per-packet one-way delay: 63.936 ms

Loss rate: 0.01%

Run 6: Report of Indigo-delay — Data Link

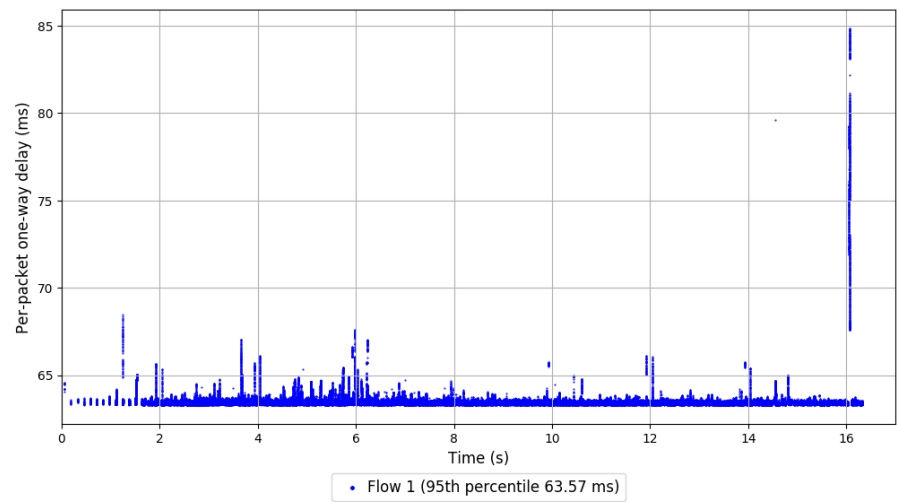
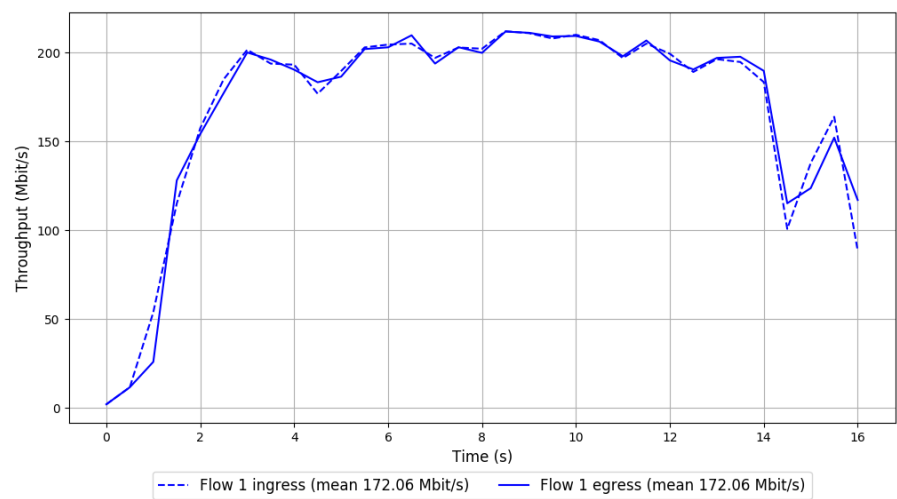


Run 7: Statistics of Indigo-delay

Start at: 2017-09-21 22:32:14

End at: 2017-09-21 22:32:44

Run 7: Report of Indigo-delay — Data Link



Run 8: Statistics of Indigo-delay

Start at: 2017-09-21 22:42:49

End at: 2017-09-21 22:43:19

Below is generated by plot.py at 2017-09-22 00:51:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.32 Mbit/s

95th percentile per-packet one-way delay: 63.514 ms

Loss rate: 0.00%

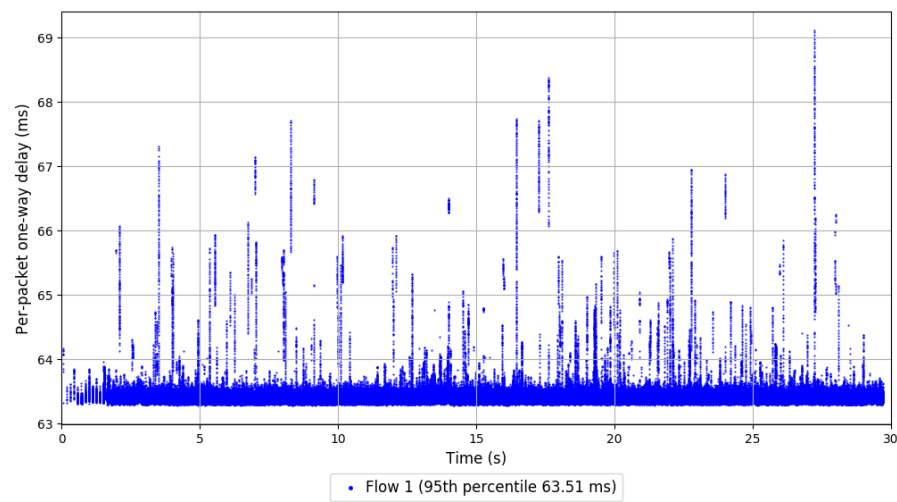
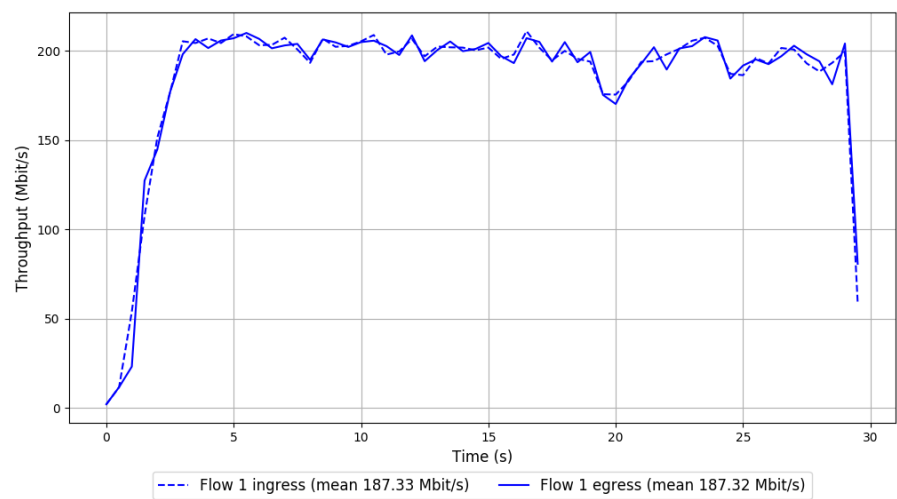
-- Flow 1:

Average throughput: 187.32 Mbit/s

95th percentile per-packet one-way delay: 63.514 ms

Loss rate: 0.00%

Run 8: Report of Indigo-delay — Data Link



Run 9: Statistics of Indigo-delay

Start at: 2017-09-21 22:53:21

End at: 2017-09-21 22:53:51

Below is generated by plot.py at 2017-09-22 00:51:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.12 Mbit/s

95th percentile per-packet one-way delay: 63.552 ms

Loss rate: 0.00%

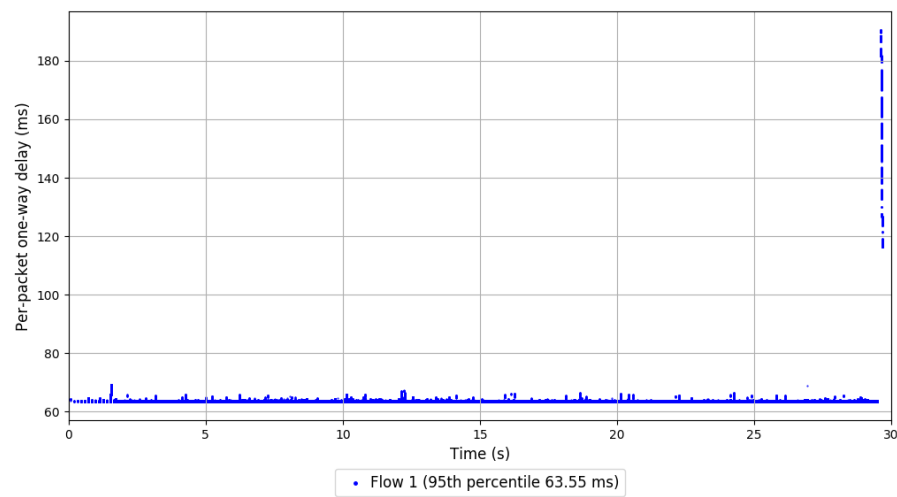
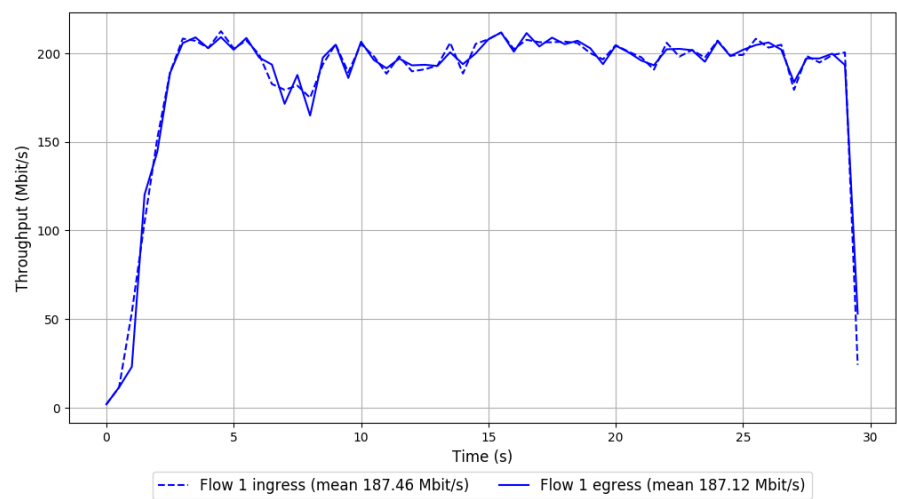
-- Flow 1:

Average throughput: 187.12 Mbit/s

95th percentile per-packet one-way delay: 63.552 ms

Loss rate: 0.00%

Run 9: Report of Indigo-delay — Data Link



Run 10: Statistics of Indigo-delay

Start at: 2017-09-21 23:03:56

End at: 2017-09-21 23:04:26

Below is generated by plot.py at 2017-09-22 00:51:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.75 Mbit/s

95th percentile per-packet one-way delay: 63.529 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 174.75 Mbit/s

95th percentile per-packet one-way delay: 63.529 ms

Loss rate: 0.00%

Run 10: Report of Indigo-delay — Data Link

