

Pantheon Report

Generated at 2017-09-21 13:39:40 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

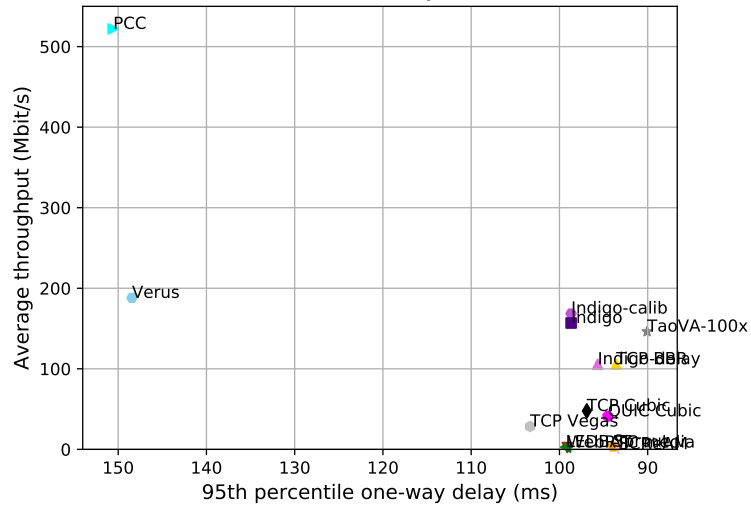
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

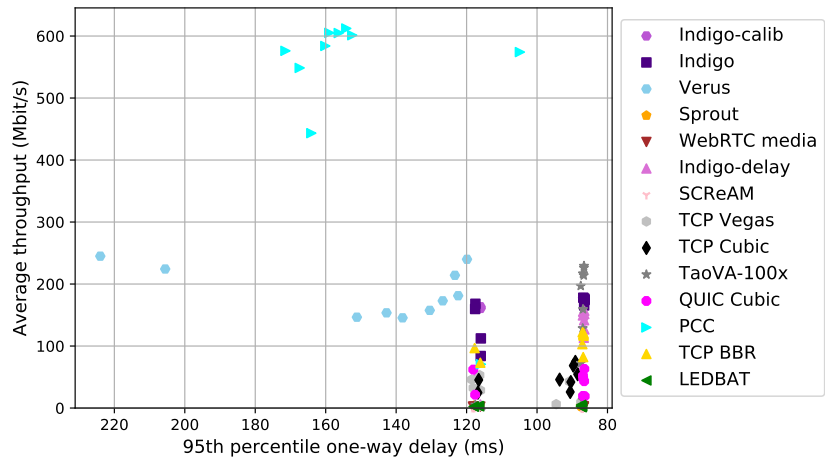
Git summary:

```
branch: indigos @ 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 @ 03455460fd1a8ffbdad86fabb936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE Sydney Ethernet to GCE Iowa Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	9	105.76	93.57	0.71
TCP Cubic	8	47.64	96.90	0.77
LEDBAT	10	2.78	99.30	0.67
PCC	10	522.02	150.56	1.97
QUIC Cubic	8	41.03	94.52	0.75
SCReAM	10	0.21	93.33	0.63
WebRTC media	10	2.25	99.11	0.74
Sprout	9	3.37	93.91	1.05
TaoVA-100x	10	146.16	90.06	0.90
TCP Vegas	10	28.38	103.33	0.41
Verus	10	188.04	148.44	1.71
Indigo	10	156.83	98.68	0.58
Indigo-calib	10	168.60	98.68	0.67
Indigo-delay	10	105.66	95.67	0.60

Run 1: Statistics of TCP BBR

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

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

Below is generated by plot.py at 2017-09-21 13:03:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.17 Mbit/s

95th percentile per-packet one-way delay: 86.895 ms

Loss rate: 0.60%

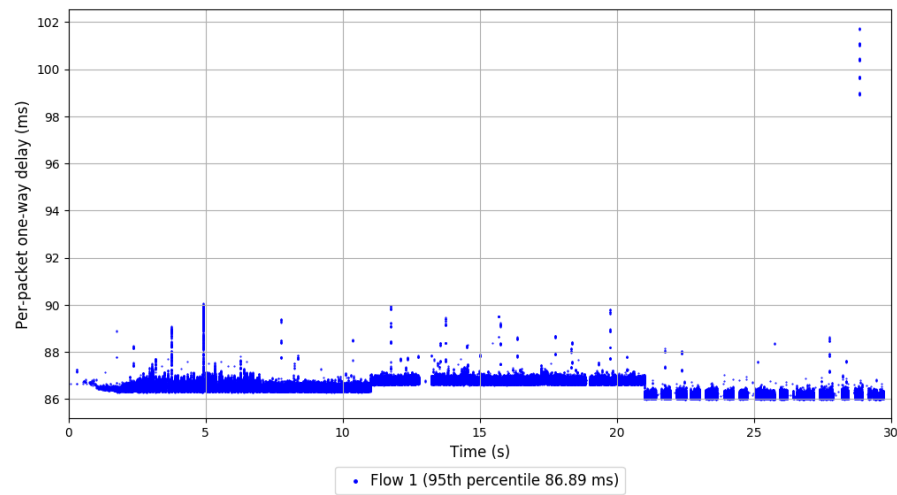
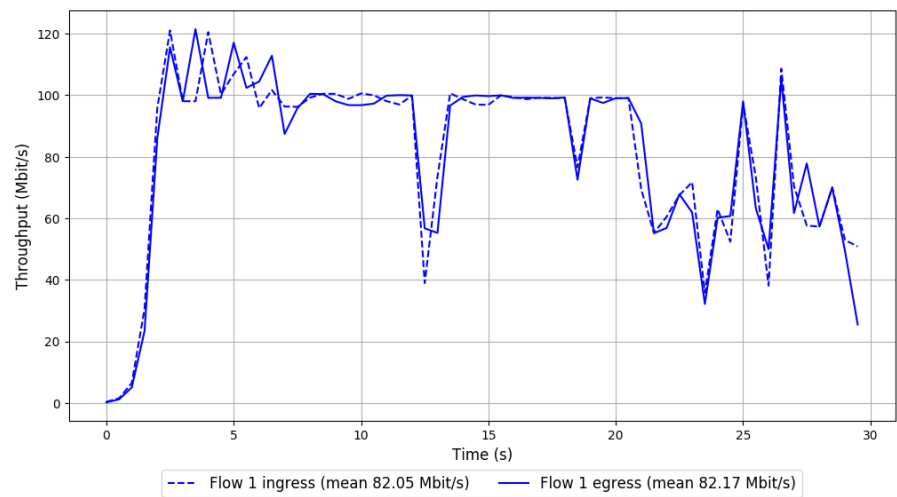
-- Flow 1:

Average throughput: 82.17 Mbit/s

95th percentile per-packet one-way delay: 86.895 ms

Loss rate: 0.60%

Run 1: Report of TCP BBR — Data Link

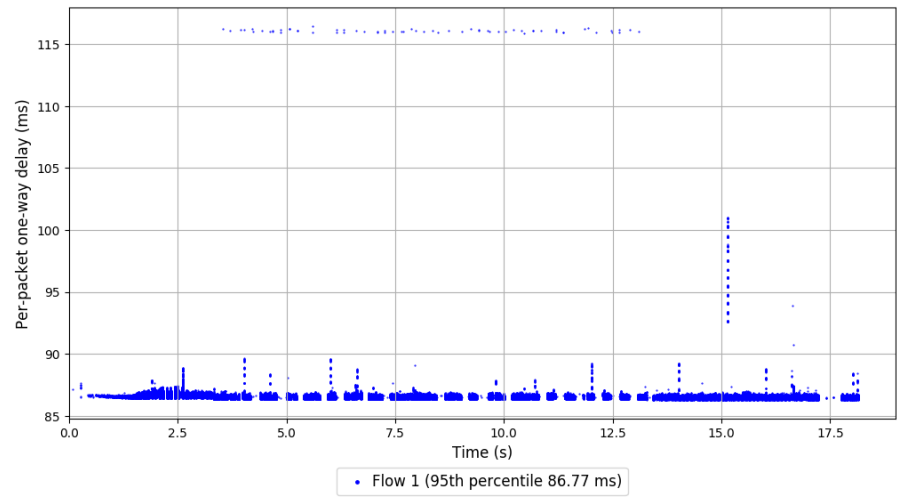
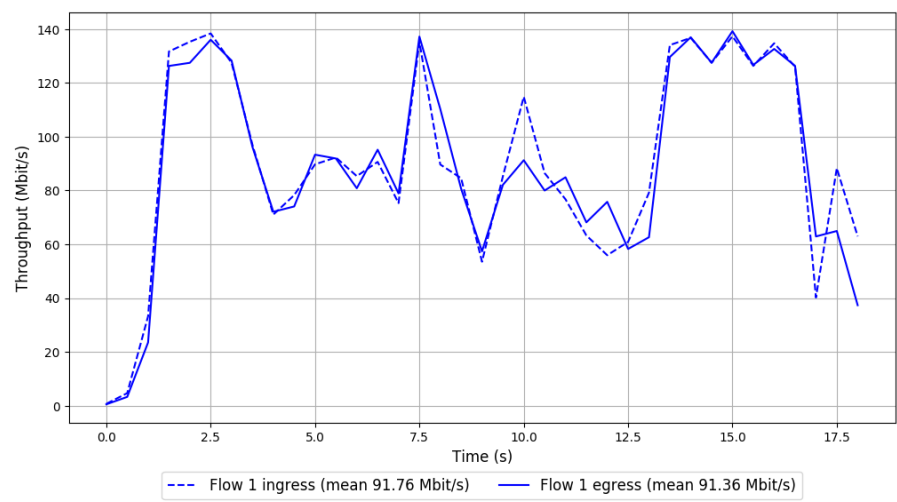


Run 2: Statistics of TCP BBR

Start at: 2017-09-21 09:33:13

End at: 2017-09-21 09:33:43

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

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

End at: 2017-09-21 09:45:01

Below is generated by plot.py at 2017-09-21 13:03:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.15 Mbit/s

95th percentile per-packet one-way delay: 116.097 ms

Loss rate: 1.01%

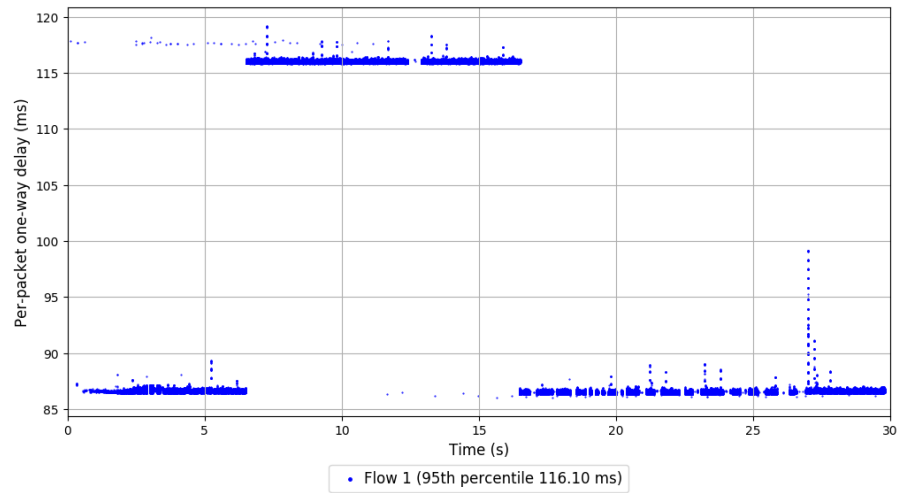
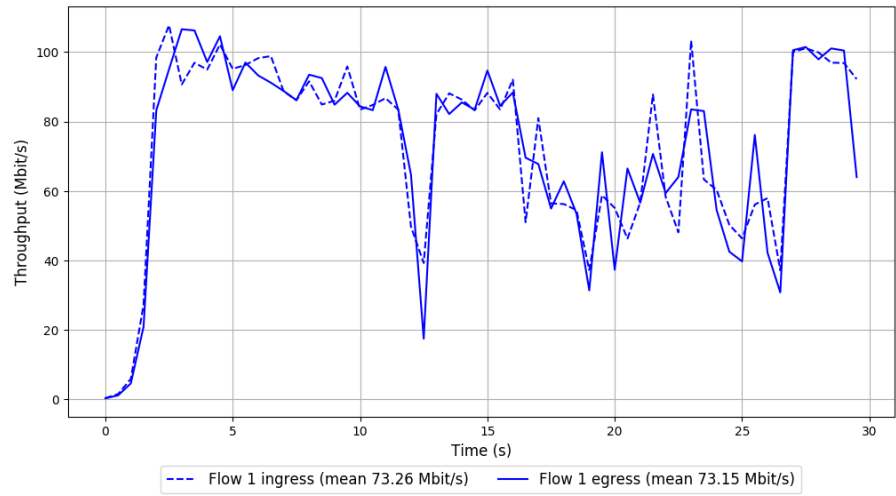
-- Flow 1:

Average throughput: 73.15 Mbit/s

95th percentile per-packet one-way delay: 116.097 ms

Loss rate: 1.01%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-09-21 09:54:56

End at: 2017-09-21 09:55:26

Below is generated by plot.py at 2017-09-21 13:03:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.47 Mbit/s

95th percentile per-packet one-way delay: 86.800 ms

Loss rate: 0.75%

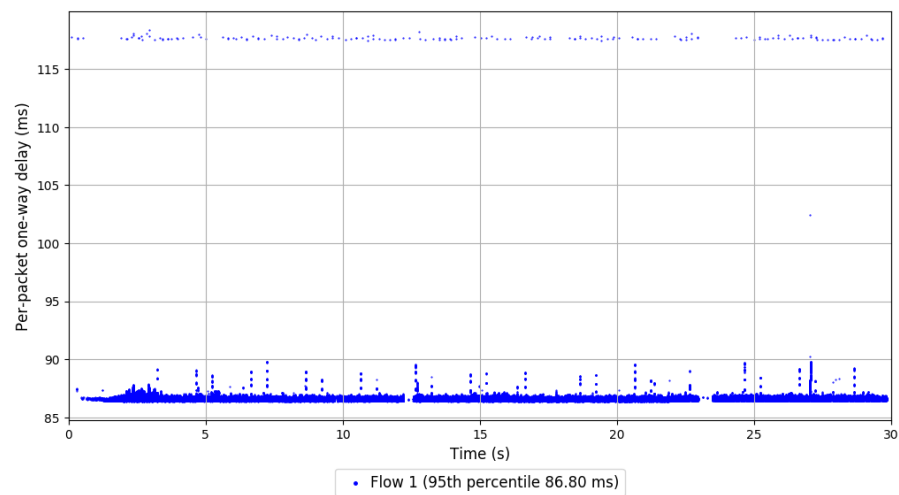
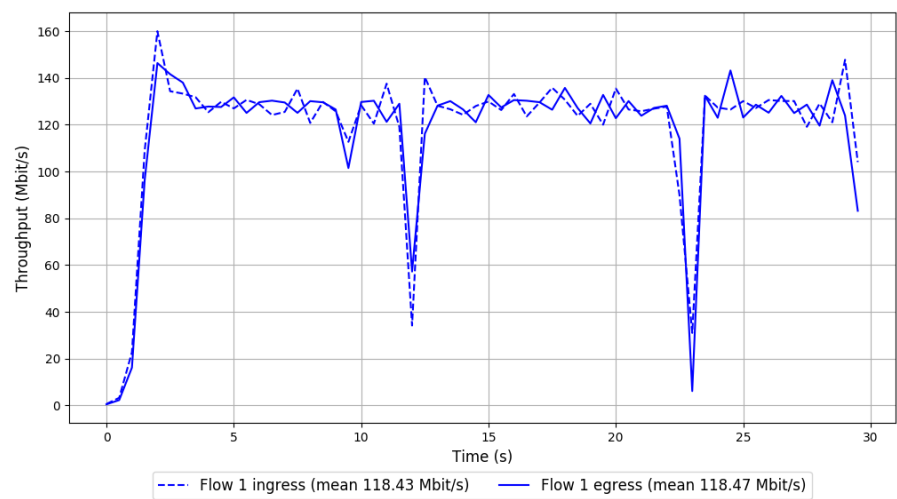
-- Flow 1:

Average throughput: 118.47 Mbit/s

95th percentile per-packet one-way delay: 86.800 ms

Loss rate: 0.75%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-09-21 10:06:05

End at: 2017-09-21 10:06:36

Below is generated by plot.py at 2017-09-21 13:03:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.53 Mbit/s

95th percentile per-packet one-way delay: 86.775 ms

Loss rate: 0.74%

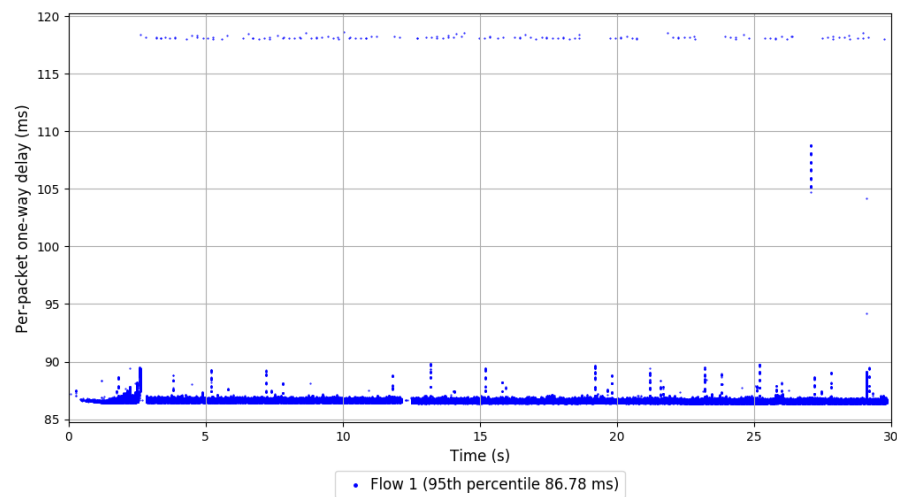
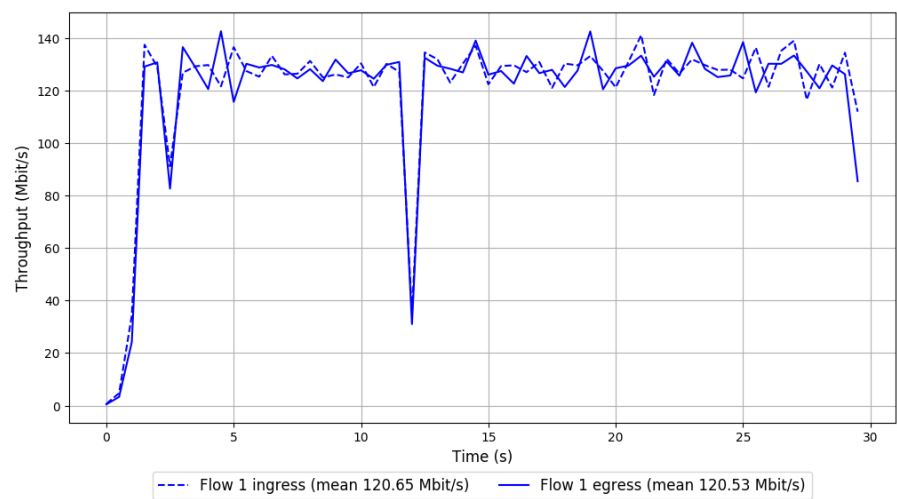
-- Flow 1:

Average throughput: 120.53 Mbit/s

95th percentile per-packet one-way delay: 86.775 ms

Loss rate: 0.74%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-09-21 10:17:10

End at: 2017-09-21 10:17:40

Below is generated by plot.py at 2017-09-21 13:03:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.80 Mbit/s

95th percentile per-packet one-way delay: 86.865 ms

Loss rate: 0.61%

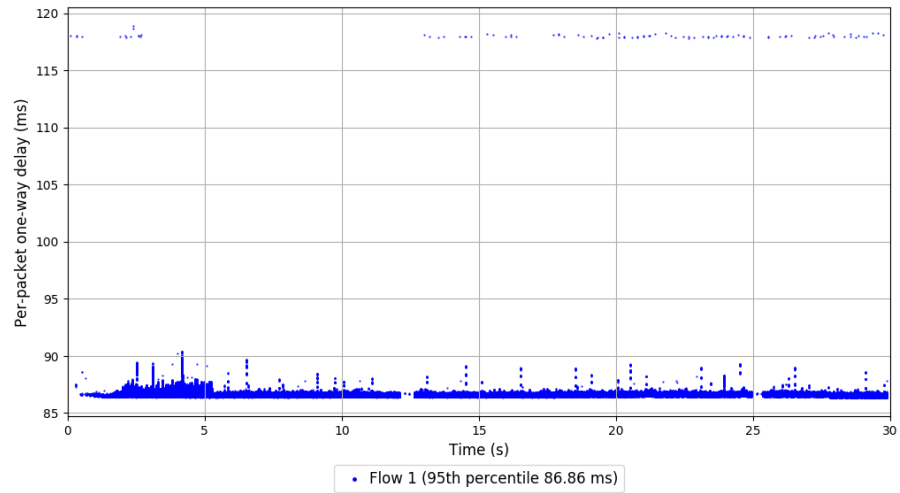
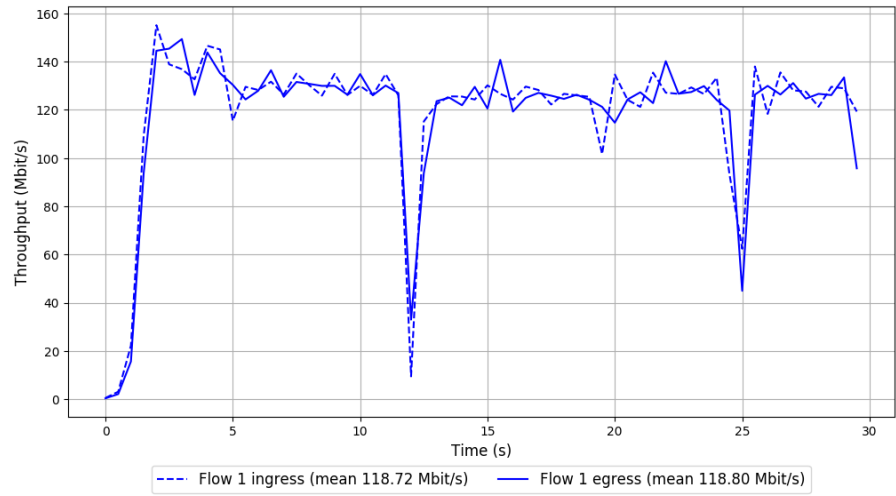
-- Flow 1:

Average throughput: 118.80 Mbit/s

95th percentile per-packet one-way delay: 86.865 ms

Loss rate: 0.61%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-09-21 10:28:13

End at: 2017-09-21 10:28:43

Below is generated by plot.py at 2017-09-21 13:03:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 116.64 Mbit/s

95th percentile per-packet one-way delay: 86.799 ms

Loss rate: 0.64%

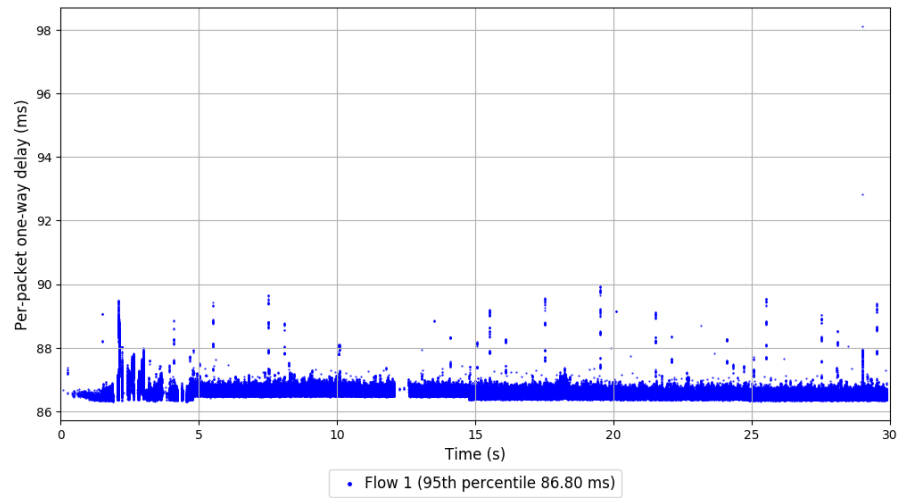
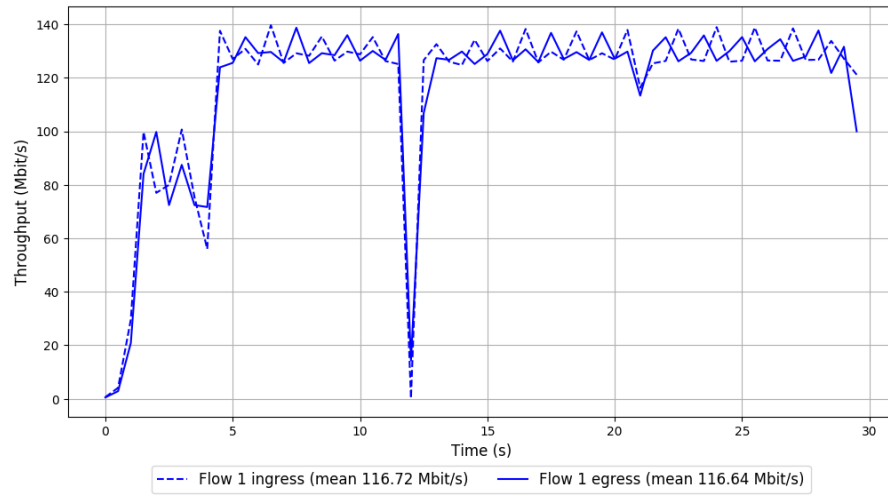
-- Flow 1:

Average throughput: 116.64 Mbit/s

95th percentile per-packet one-way delay: 86.799 ms

Loss rate: 0.64%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-09-21 10:39:13

End at: 2017-09-21 10:39:43

Below is generated by plot.py at 2017-09-21 13:03:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.40 Mbit/s

95th percentile per-packet one-way delay: 87.061 ms

Loss rate: 0.61%

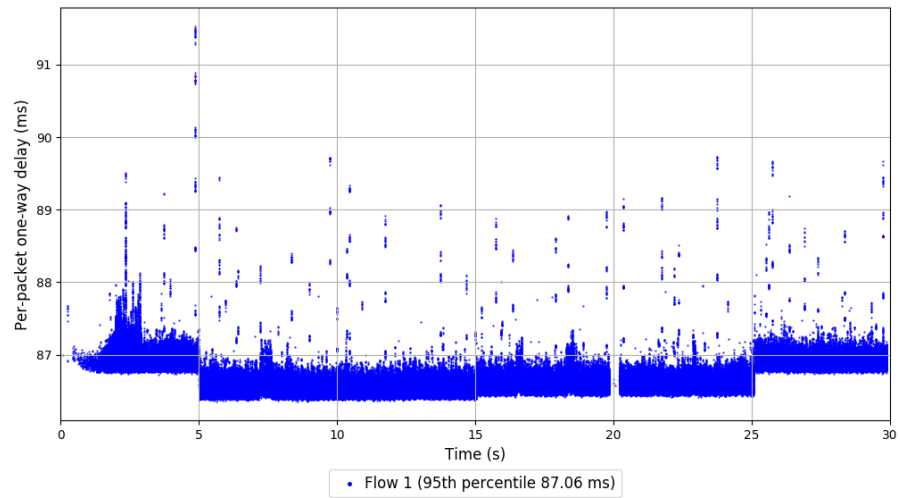
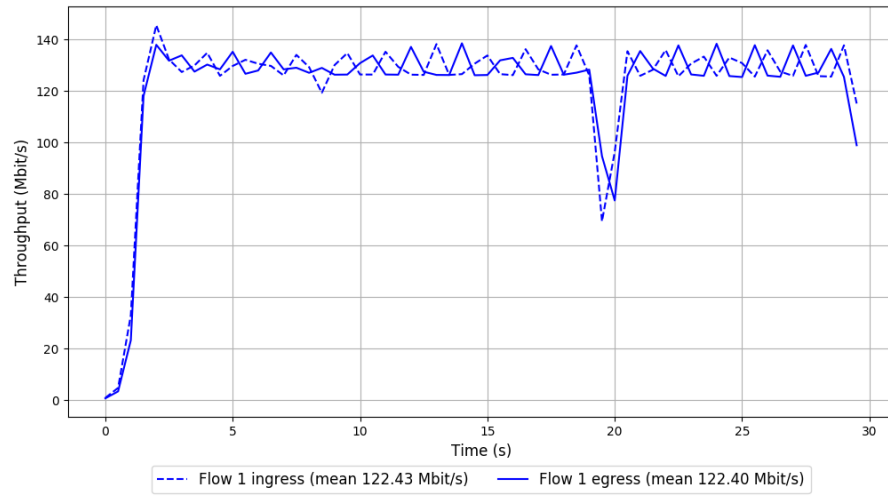
-- Flow 1:

Average throughput: 122.40 Mbit/s

95th percentile per-packet one-way delay: 87.061 ms

Loss rate: 0.61%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-09-21 10:49:56

End at: 2017-09-21 10:50:26

Below is generated by plot.py at 2017-09-21 13:04:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.01 Mbit/s

95th percentile per-packet one-way delay: 87.129 ms

Loss rate: 0.67%

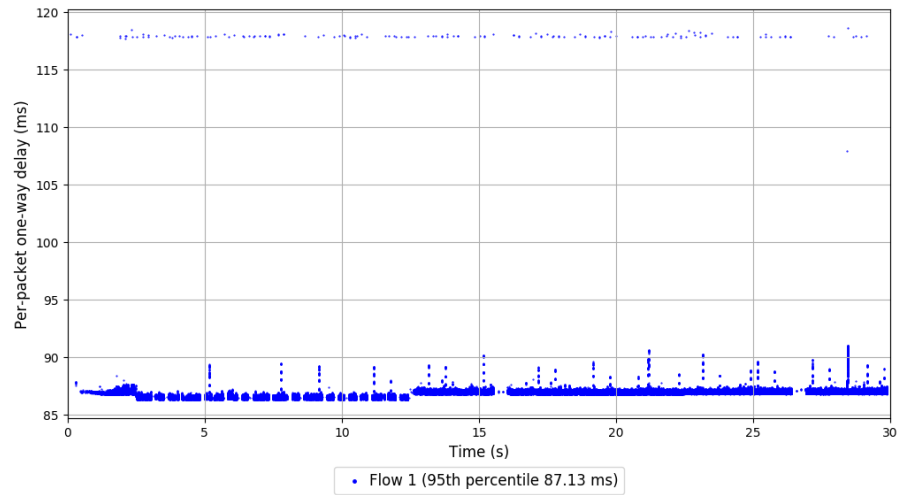
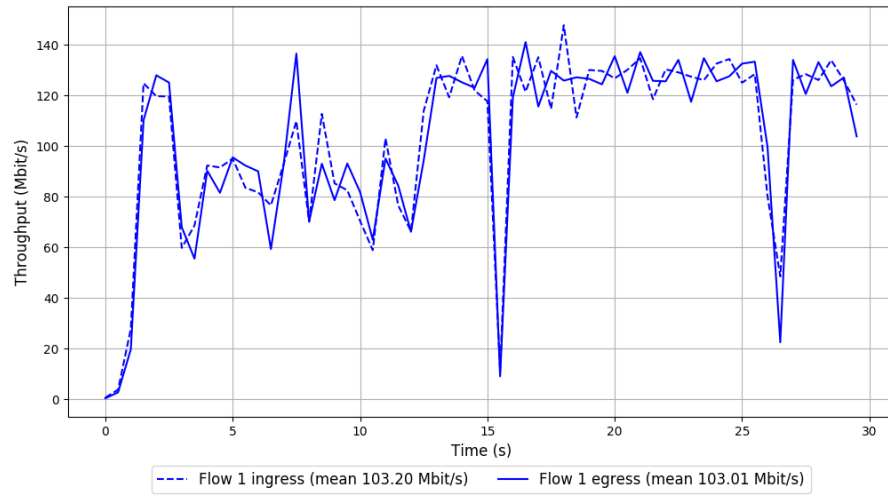
-- Flow 1:

Average throughput: 103.01 Mbit/s

95th percentile per-packet one-way delay: 87.129 ms

Loss rate: 0.67%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-09-21 11:00:53

End at: 2017-09-21 11:01:23

Below is generated by plot.py at 2017-09-21 13:04:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.71 Mbit/s

95th percentile per-packet one-way delay: 117.720 ms

Loss rate: 0.78%

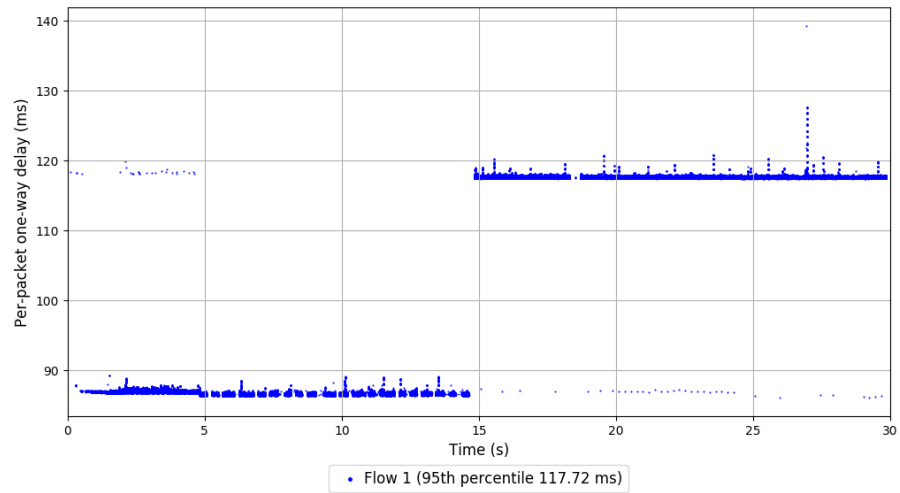
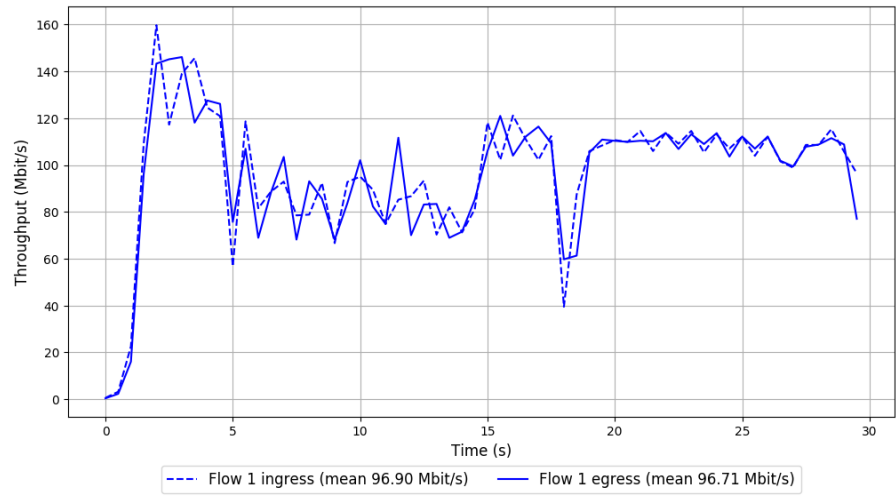
-- Flow 1:

Average throughput: 96.71 Mbit/s

95th percentile per-packet one-way delay: 117.720 ms

Loss rate: 0.78%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-09-21 09:27:14

End at: 2017-09-21 09:27:44

Below is generated by plot.py at 2017-09-21 13:04:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.90 Mbit/s

95th percentile per-packet one-way delay: 90.405 ms

Loss rate: 0.44%

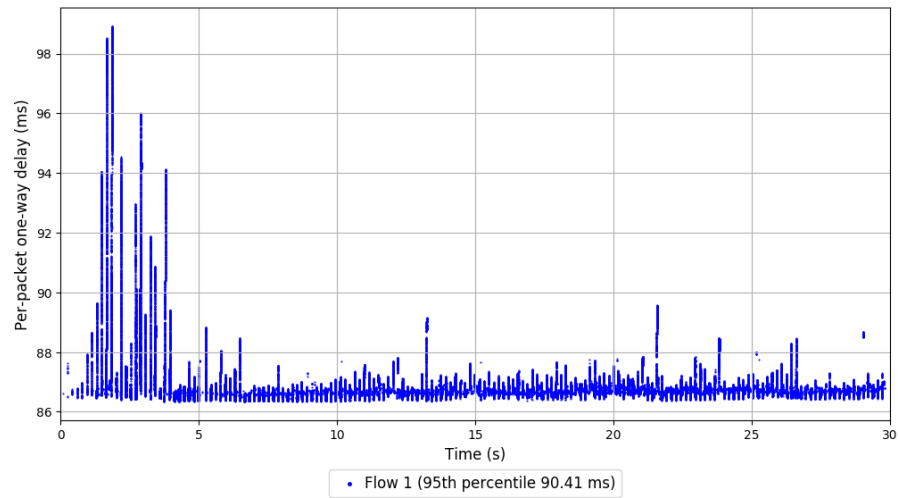
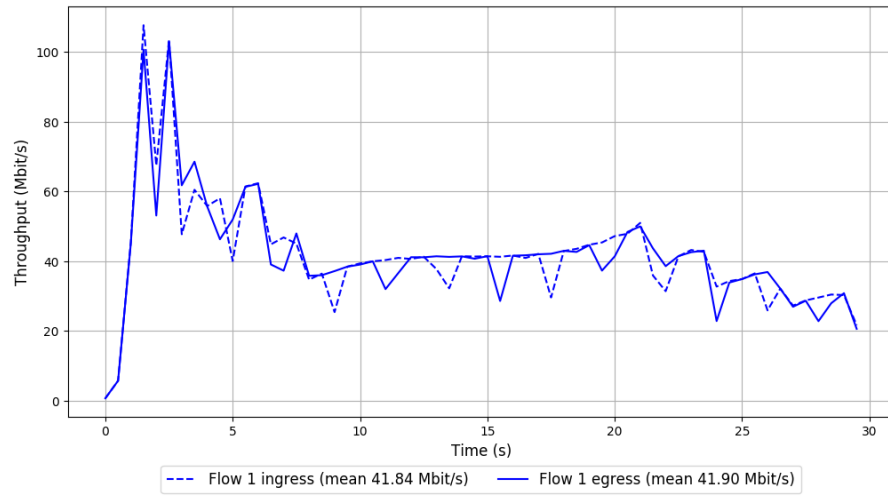
-- Flow 1:

Average throughput: 41.90 Mbit/s

95th percentile per-packet one-way delay: 90.405 ms

Loss rate: 0.44%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-09-21 09:38:41

End at: 2017-09-21 09:39:11

Below is generated by plot.py at 2017-09-21 13:04:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.84 Mbit/s

95th percentile per-packet one-way delay: 116.779 ms

Loss rate: 1.01%

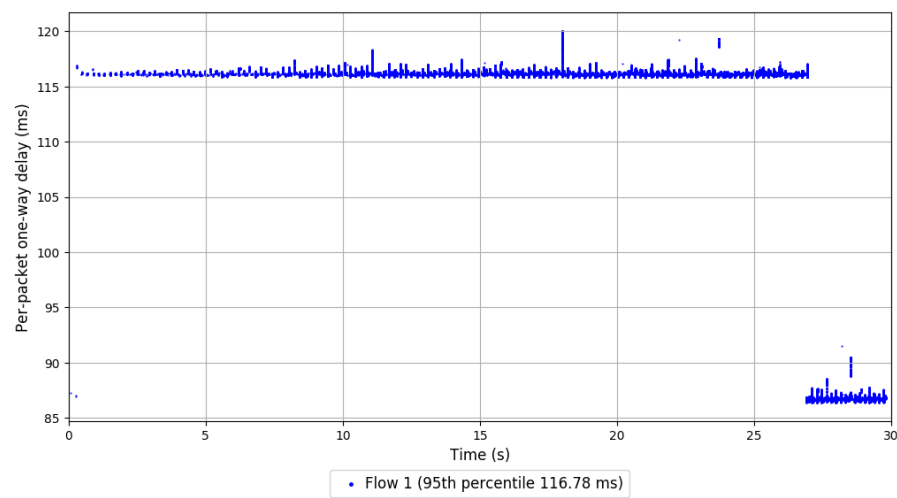
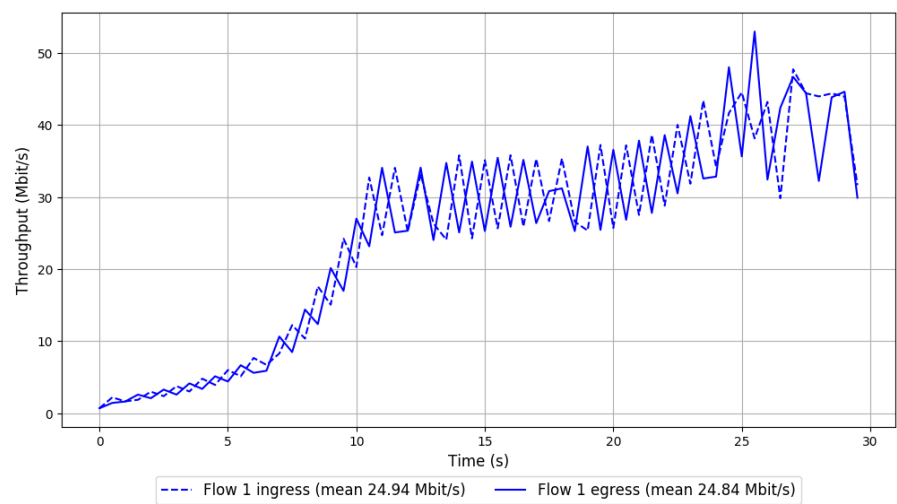
-- Flow 1:

Average throughput: 24.84 Mbit/s

95th percentile per-packet one-way delay: 116.779 ms

Loss rate: 1.01%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-09-21 09:49:20

End at: 2017-09-21 09:49:50

Below is generated by plot.py at 2017-09-21 13:04:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.28 Mbit/s

95th percentile per-packet one-way delay: 116.557 ms

Loss rate: 0.96%

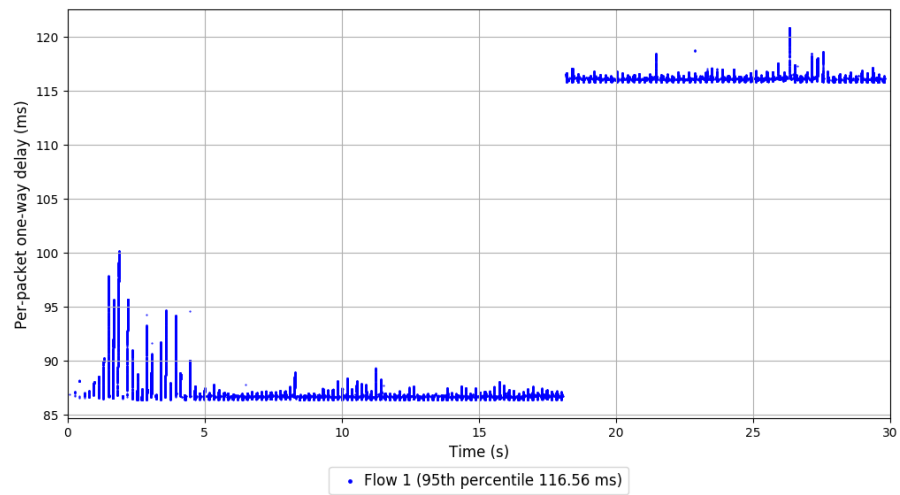
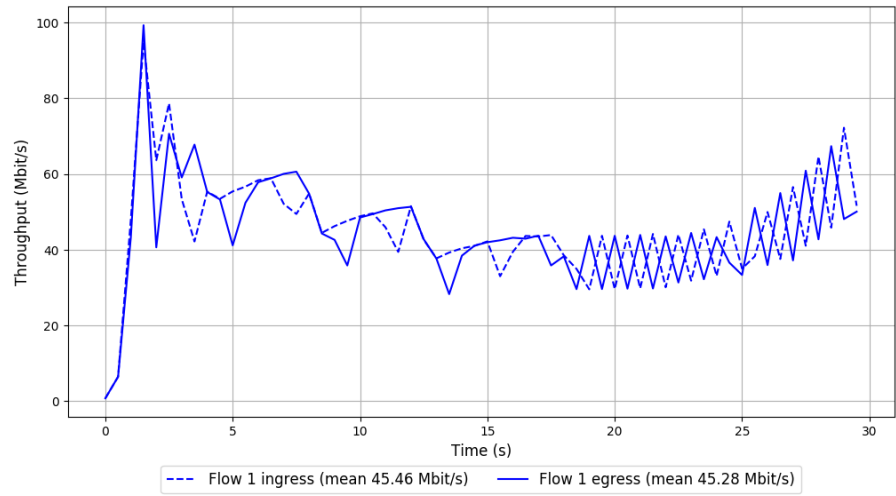
-- Flow 1:

Average throughput: 45.28 Mbit/s

95th percentile per-packet one-way delay: 116.557 ms

Loss rate: 0.96%

Run 3: Report of TCP Cubic — Data Link

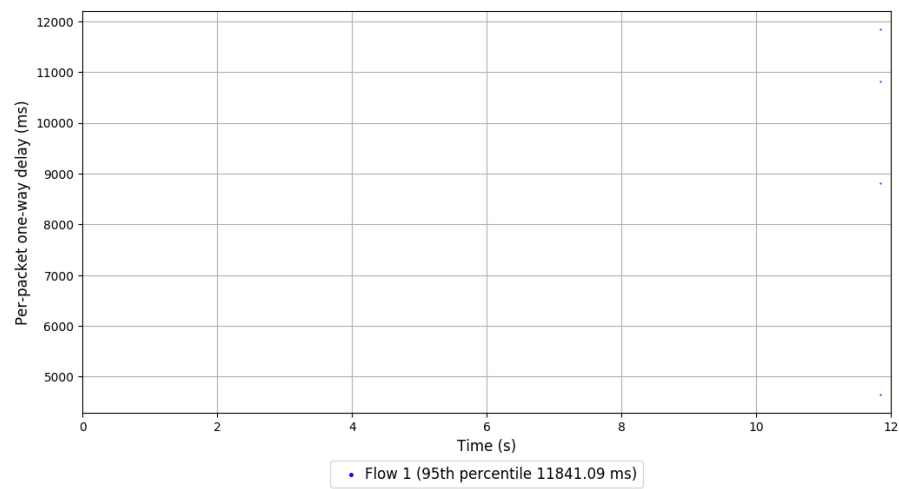
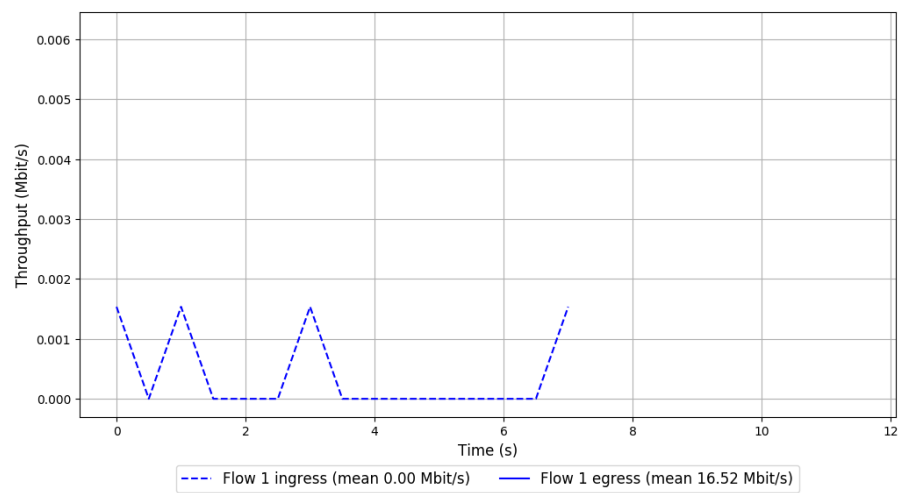


Run 4: Statistics of TCP Cubic

Start at: 2017-09-21 10:00:08

End at: 2017-09-21 10:00:38

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-09-21 10:11:37

End at: 2017-09-21 10:12:07

Below is generated by plot.py at 2017-09-21 13:04:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.50 Mbit/s

95th percentile per-packet one-way delay: 88.463 ms

Loss rate: 1.43%

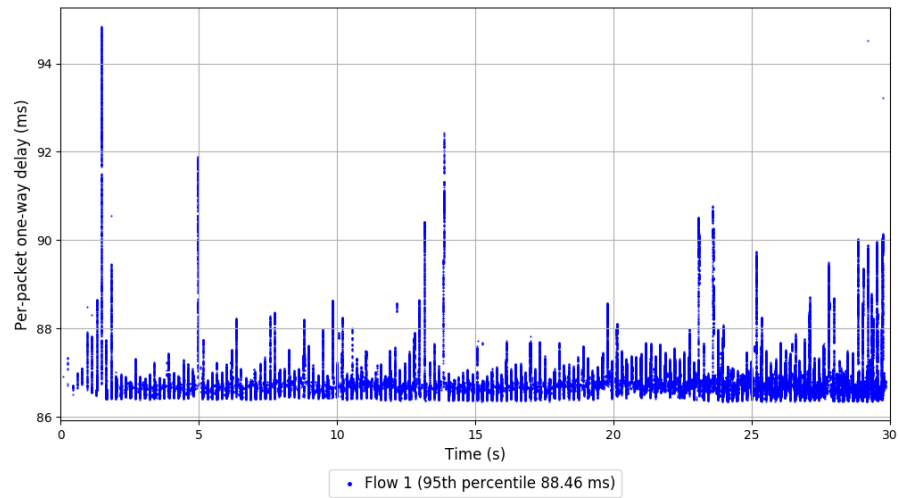
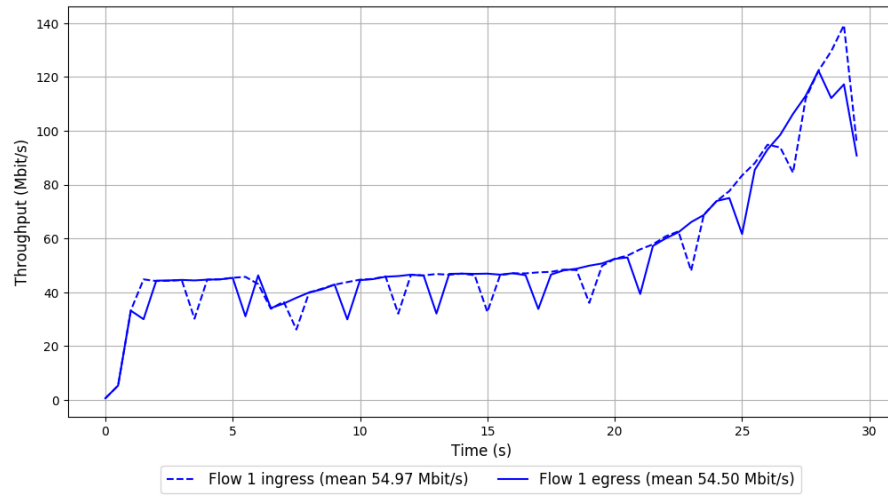
-- Flow 1:

Average throughput: 54.50 Mbit/s

95th percentile per-packet one-way delay: 88.463 ms

Loss rate: 1.43%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-09-21 10:22:28

End at: 2017-09-21 10:22:59

Below is generated by plot.py at 2017-09-21 13:05:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.43 Mbit/s

95th percentile per-packet one-way delay: 89.118 ms

Loss rate: 0.55%

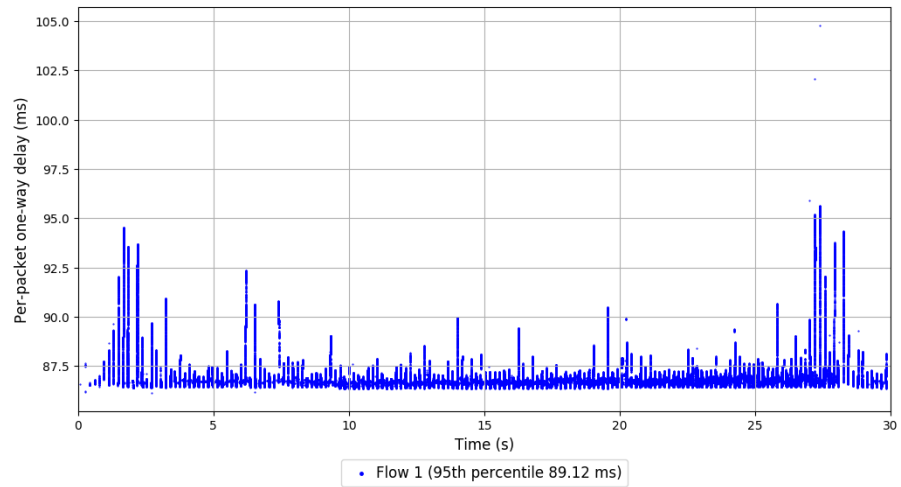
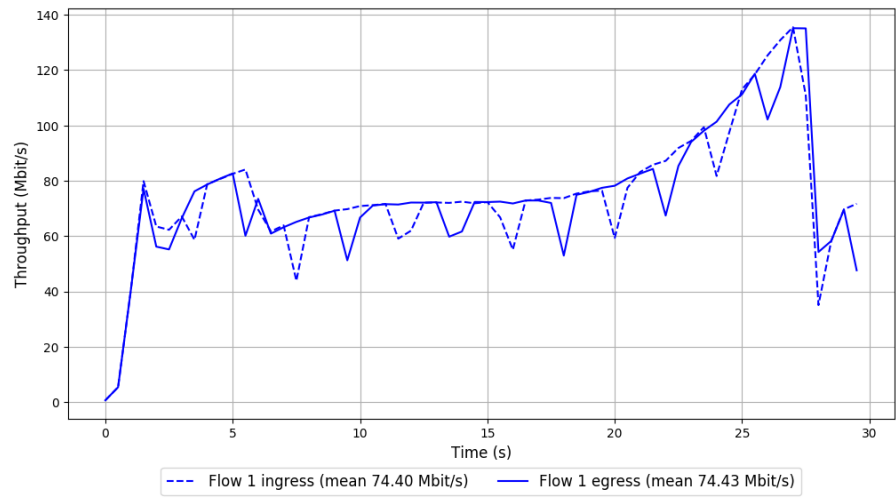
-- Flow 1:

Average throughput: 74.43 Mbit/s

95th percentile per-packet one-way delay: 89.118 ms

Loss rate: 0.55%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-09-21 10:33:27

End at: 2017-09-21 10:33:57

Below is generated by plot.py at 2017-09-21 13:05:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.41 Mbit/s

95th percentile per-packet one-way delay: 89.702 ms

Loss rate: 0.65%

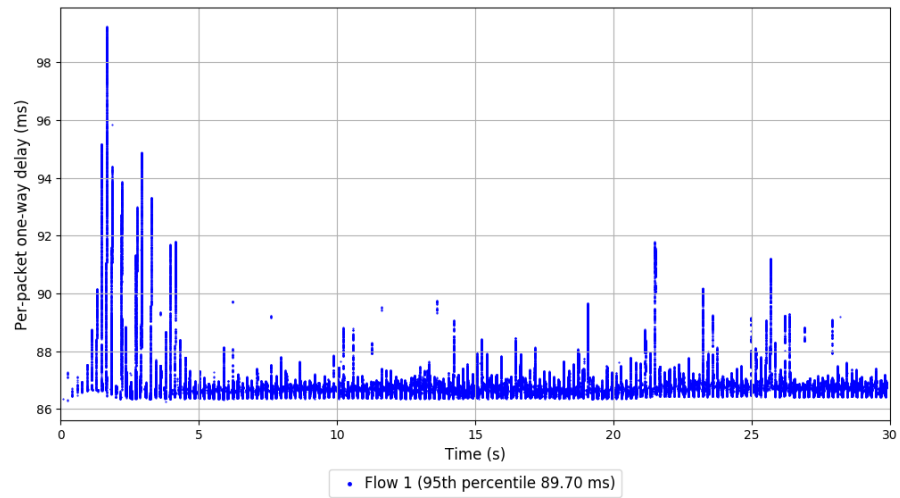
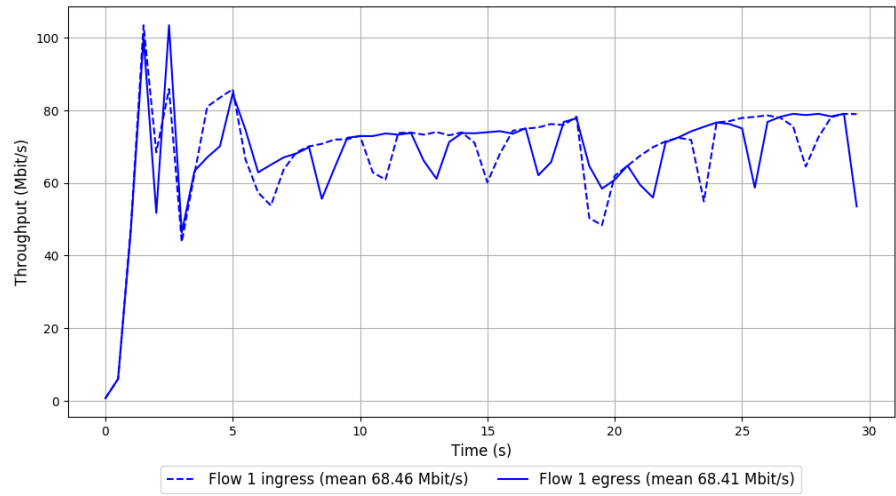
-- Flow 1:

Average throughput: 68.41 Mbit/s

95th percentile per-packet one-way delay: 89.702 ms

Loss rate: 0.65%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-09-21 10:44:18

End at: 2017-09-21 10:44:48

Below is generated by plot.py at 2017-09-21 13:05:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.84 Mbit/s

95th percentile per-packet one-way delay: 93.589 ms

Loss rate: 0.14%

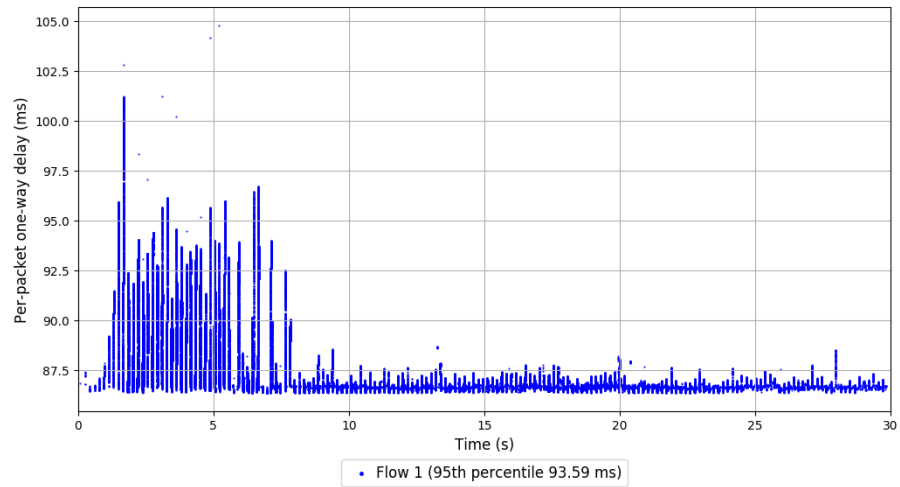
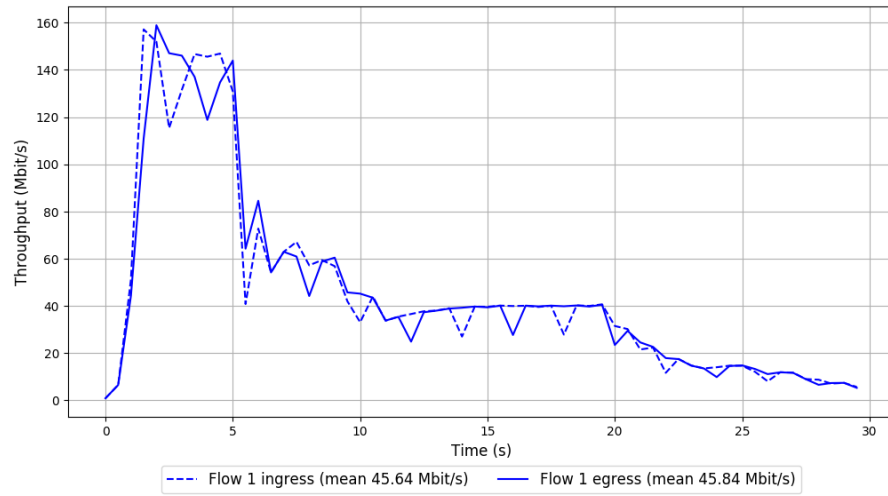
-- Flow 1:

Average throughput: 45.84 Mbit/s

95th percentile per-packet one-way delay: 93.589 ms

Loss rate: 0.14%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-09-21 10:55:12

End at: 2017-09-21 10:55:42

Below is generated by plot.py at 2017-09-21 13:05:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.92 Mbit/s

95th percentile per-packet one-way delay: 90.577 ms

Loss rate: 0.96%

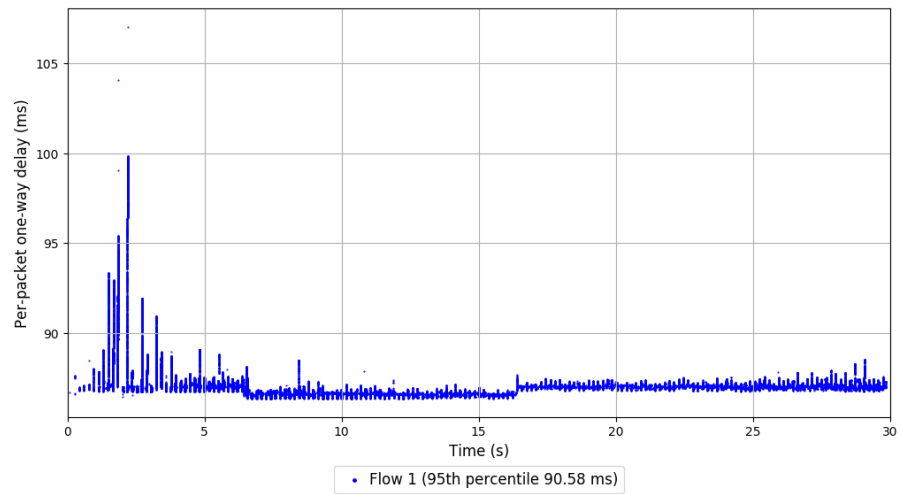
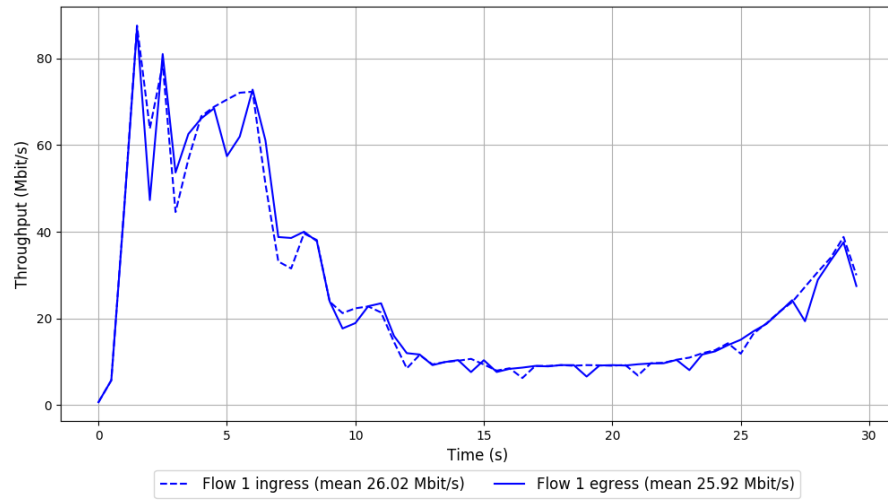
-- Flow 1:

Average throughput: 25.92 Mbit/s

95th percentile per-packet one-way delay: 90.577 ms

Loss rate: 0.96%

Run 9: Report of TCP Cubic — Data Link

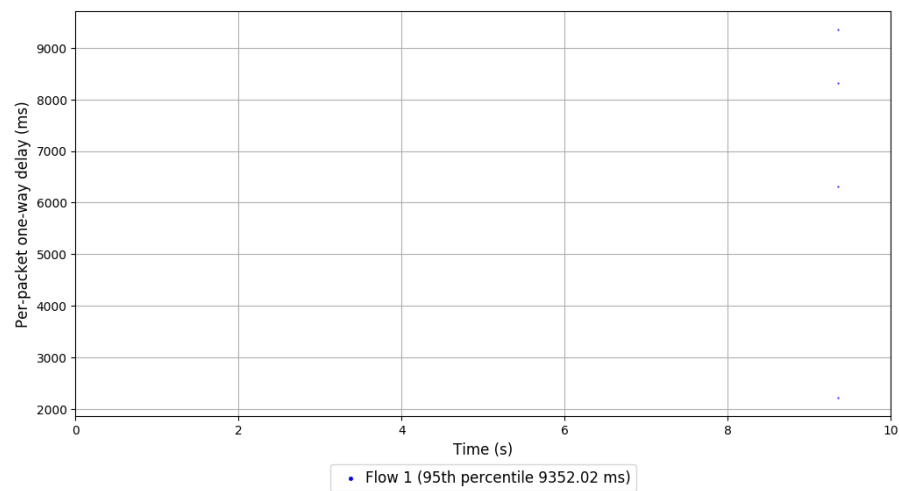
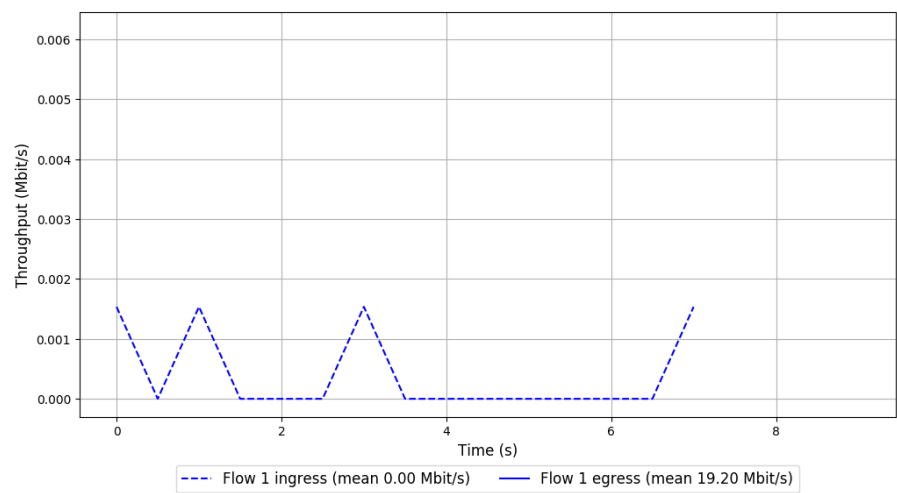


Run 10: Statistics of TCP Cubic

Start at: 2017-09-21 11:06:13

End at: 2017-09-21 11:06:43

Run 10: Report of TCP Cubic — Data Link

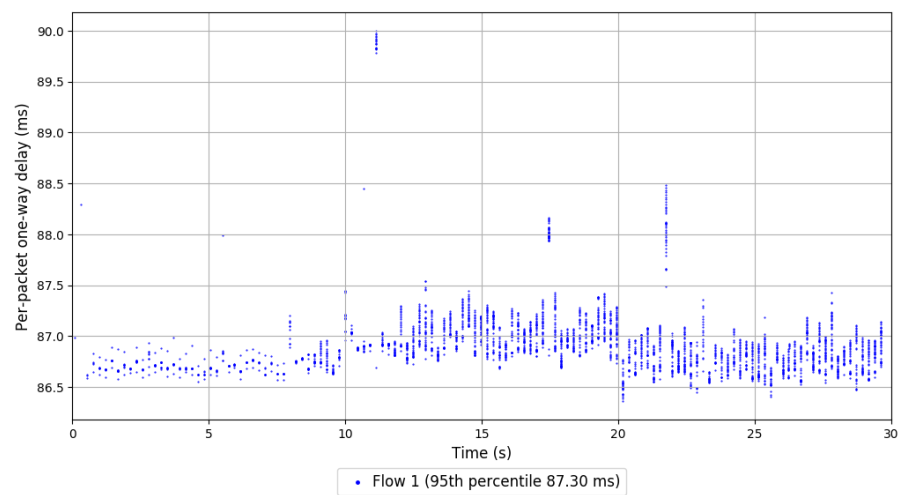
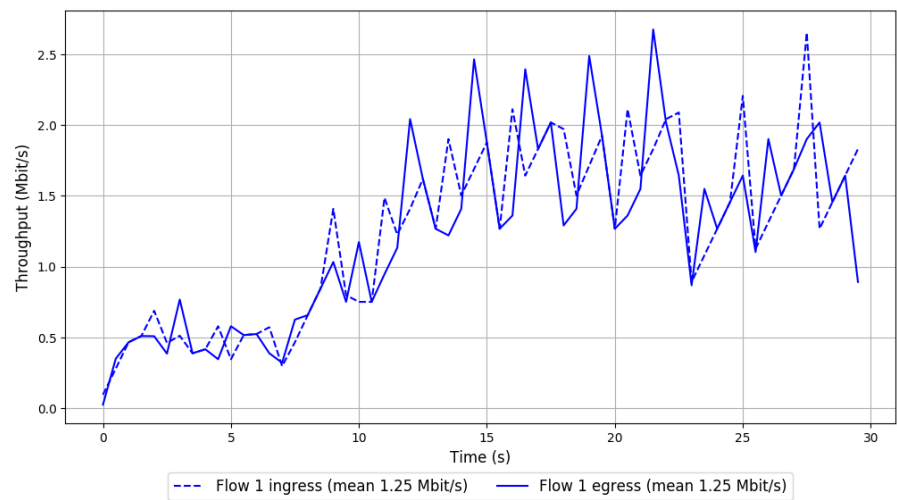


```
Run 1: Statistics of LEDBAT

Start at: 2017-09-21 09:27:58
End at: 2017-09-21 09:28:28

# Below is generated by plot.py at 2017-09-21 13:05:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.25 Mbit/s
95th percentile per-packet one-way delay: 87.303 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 1.25 Mbit/s
95th percentile per-packet one-way delay: 87.303 ms
Loss rate: 1.29%
```


Run 1: Report of LEDBAT — Data Link

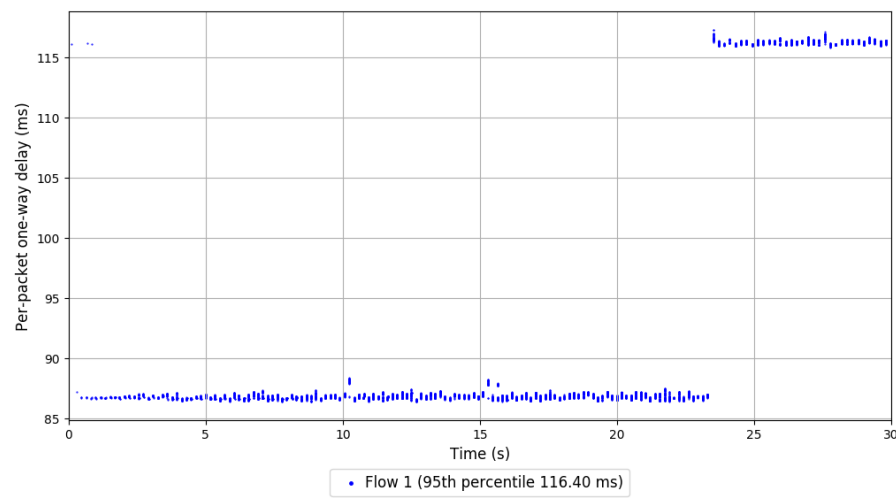
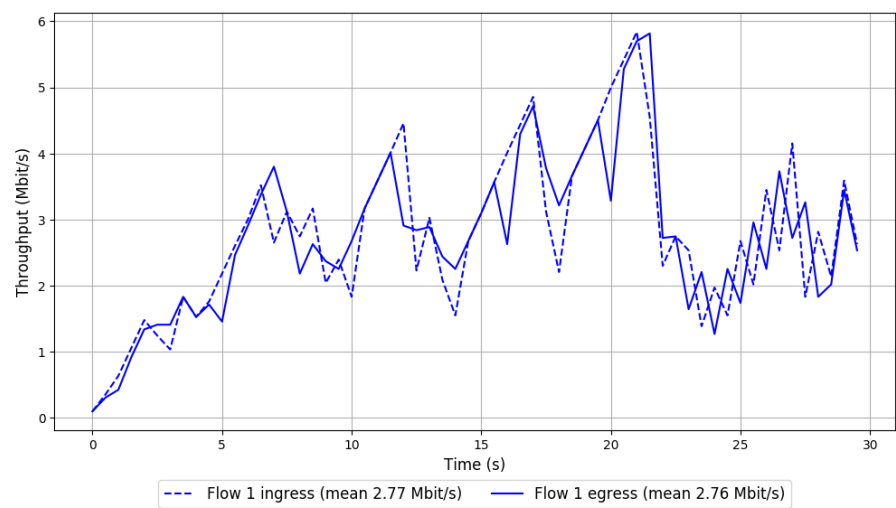


```
Run 2: Statistics of LEDBAT

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

# Below is generated by plot.py at 2017-09-21 13:05:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.76 Mbit/s
95th percentile per-packet one-way delay: 116.397 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 2.76 Mbit/s
95th percentile per-packet one-way delay: 116.397 ms
Loss rate: 1.09%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-09-21 09:50:04

End at: 2017-09-21 09:50:34

Below is generated by plot.py at 2017-09-21 13:05:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.37 Mbit/s

95th percentile per-packet one-way delay: 116.612 ms

Loss rate: 0.17%

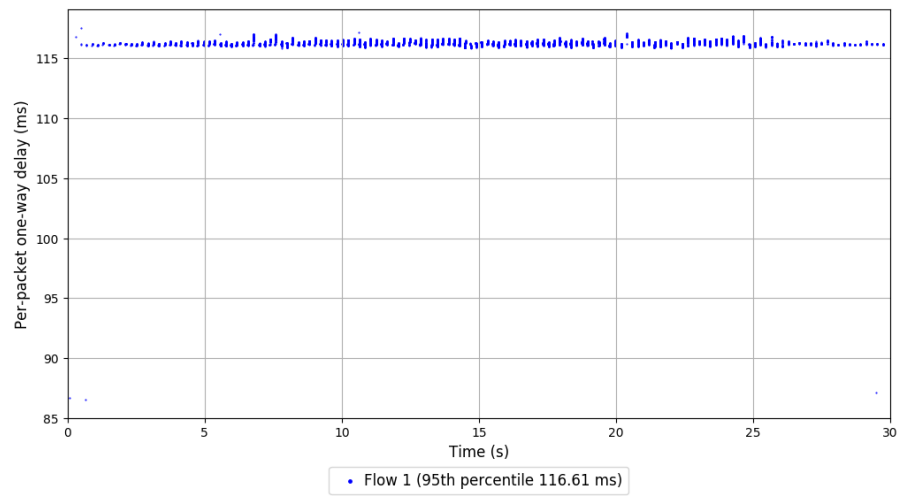
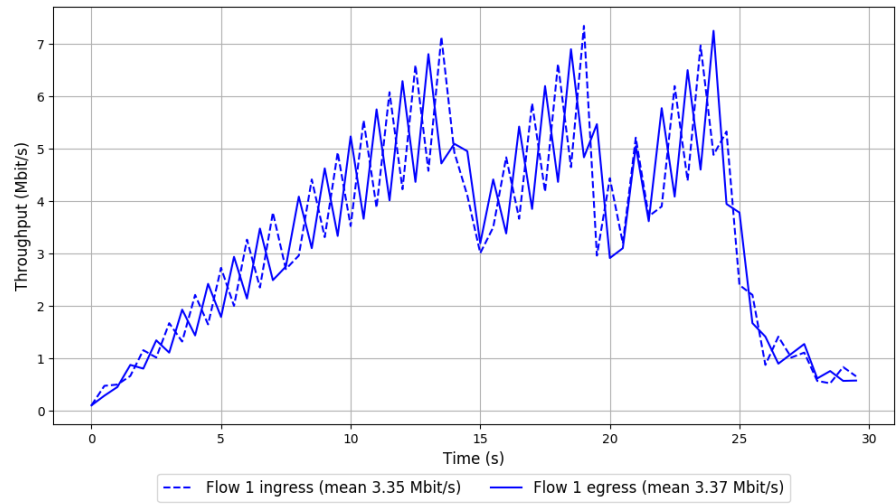
-- Flow 1:

Average throughput: 3.37 Mbit/s

95th percentile per-packet one-way delay: 116.612 ms

Loss rate: 0.17%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-09-21 10:00:48

End at: 2017-09-21 10:01:19

Below is generated by plot.py at 2017-09-21 13:05:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 87.297 ms

Loss rate: 0.50%

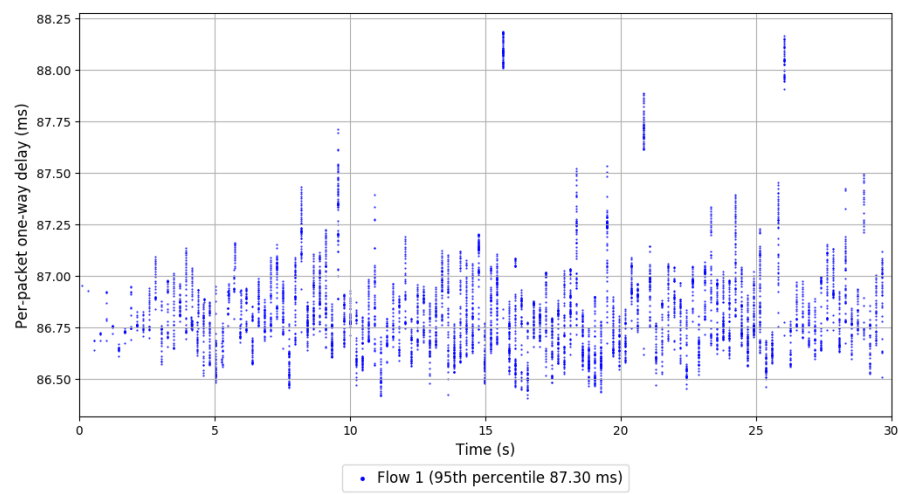
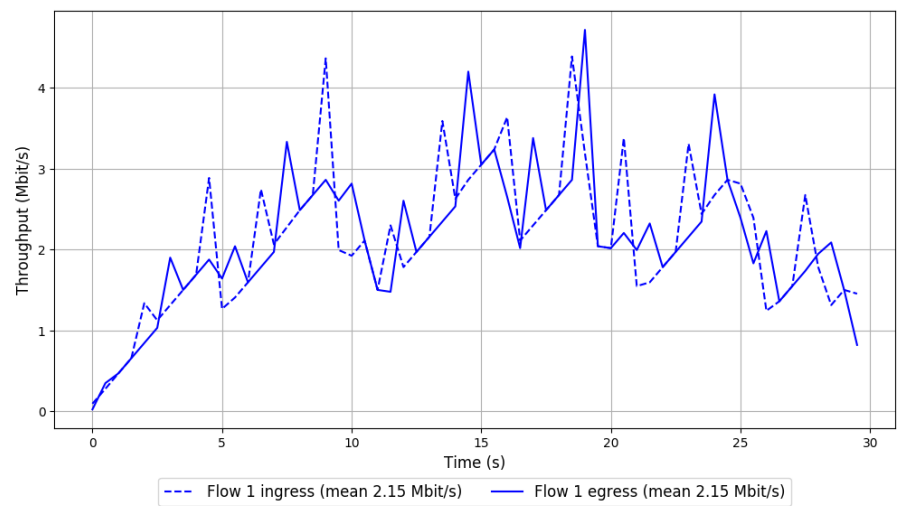
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 87.297 ms

Loss rate: 0.50%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

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

End at: 2017-09-21 10:12:51

Below is generated by plot.py at 2017-09-21 13:05:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.56 Mbit/s

95th percentile per-packet one-way delay: 87.176 ms

Loss rate: 0.54%

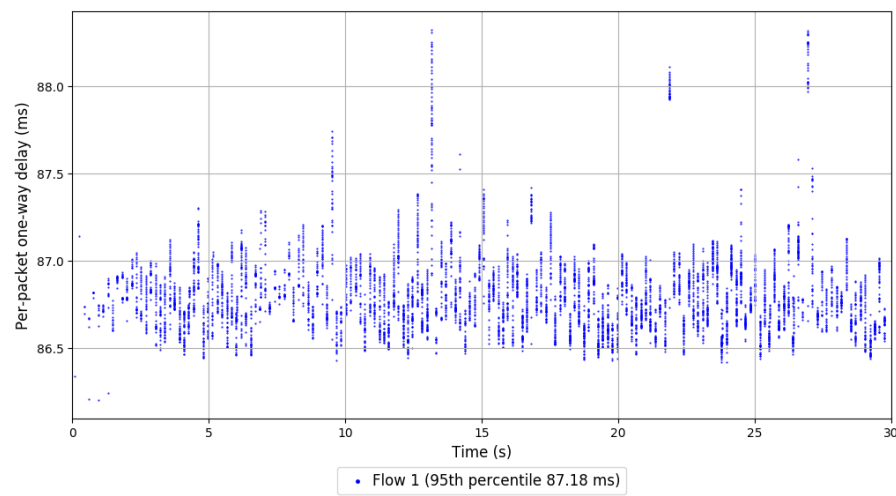
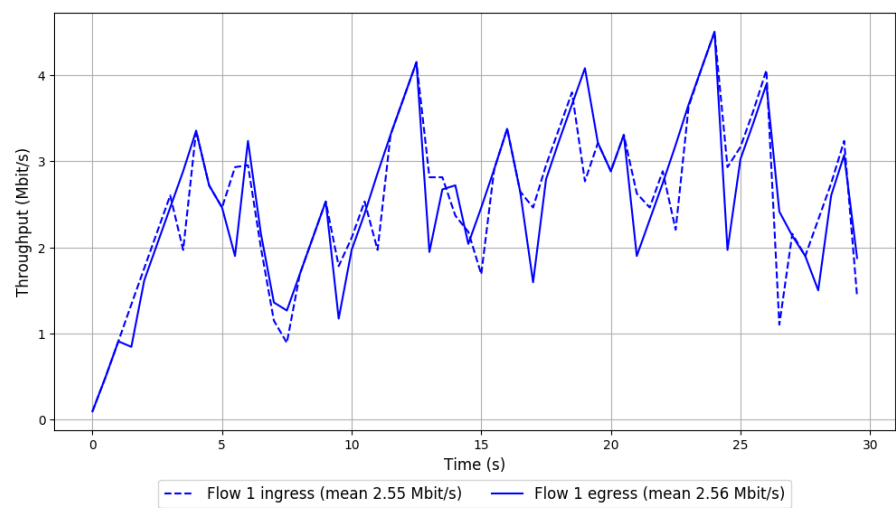
-- Flow 1:

Average throughput: 2.56 Mbit/s

95th percentile per-packet one-way delay: 87.176 ms

Loss rate: 0.54%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-09-21 10:23:12

End at: 2017-09-21 10:23:42

Below is generated by plot.py at 2017-09-21 13:05:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.68 Mbit/s

95th percentile per-packet one-way delay: 87.280 ms

Loss rate: 0.35%

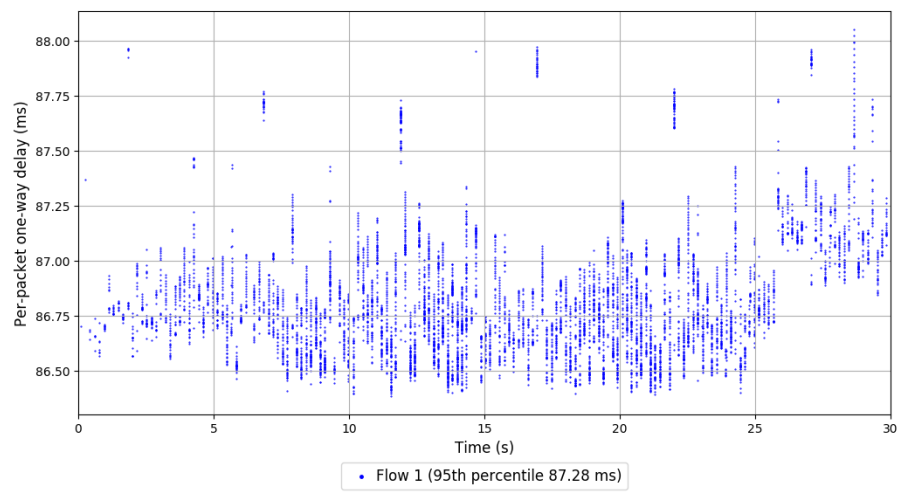
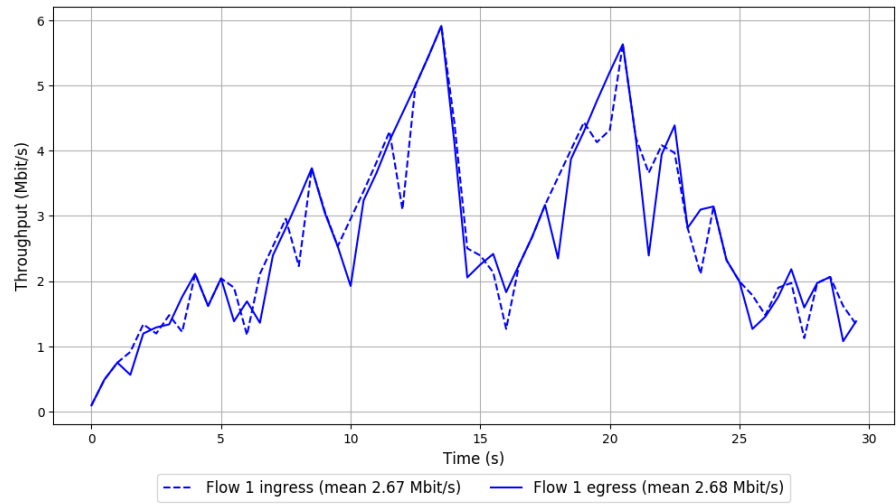
-- Flow 1:

Average throughput: 2.68 Mbit/s

95th percentile per-packet one-way delay: 87.280 ms

Loss rate: 0.35%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-09-21 10:34:11

End at: 2017-09-21 10:34:41

Below is generated by plot.py at 2017-09-21 13:05:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.26 Mbit/s

95th percentile per-packet one-way delay: 87.452 ms

Loss rate: 0.29%

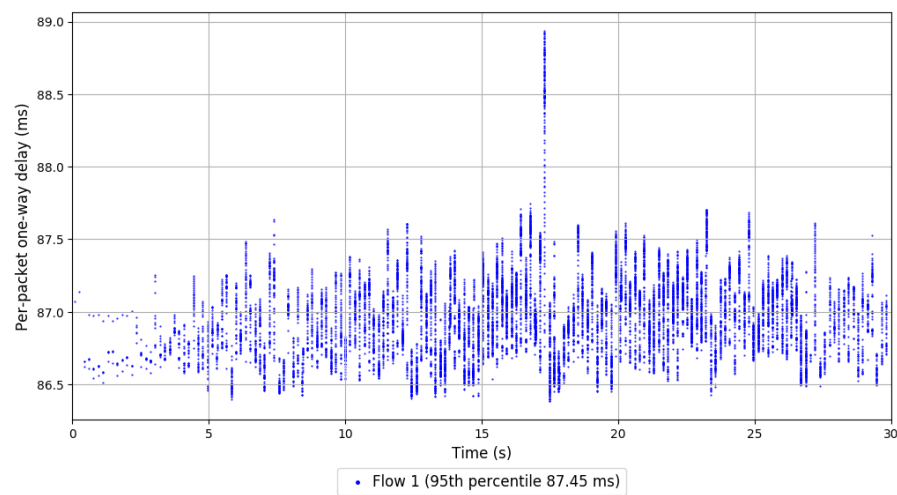
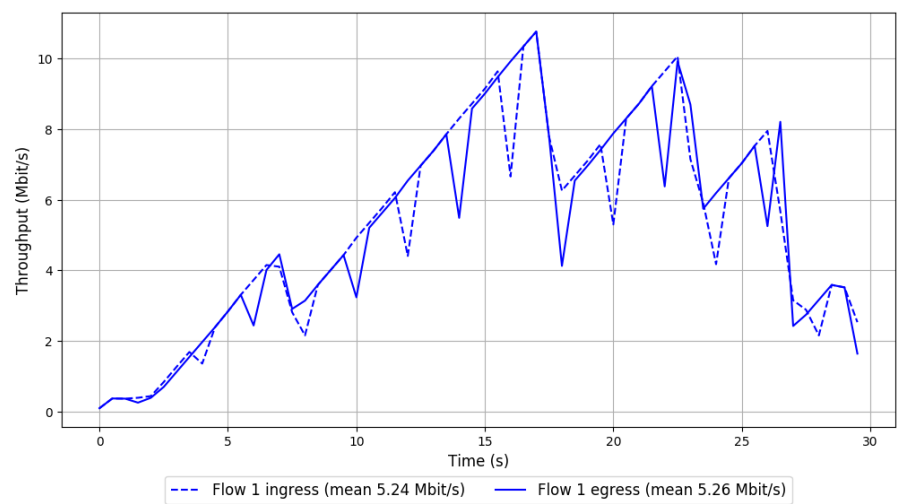
-- Flow 1:

Average throughput: 5.26 Mbit/s

95th percentile per-packet one-way delay: 87.452 ms

Loss rate: 0.29%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-09-21 10:45:00

End at: 2017-09-21 10:45:30

Below is generated by plot.py at 2017-09-21 13:05:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.98 Mbit/s

95th percentile per-packet one-way delay: 87.575 ms

Loss rate: 0.80%

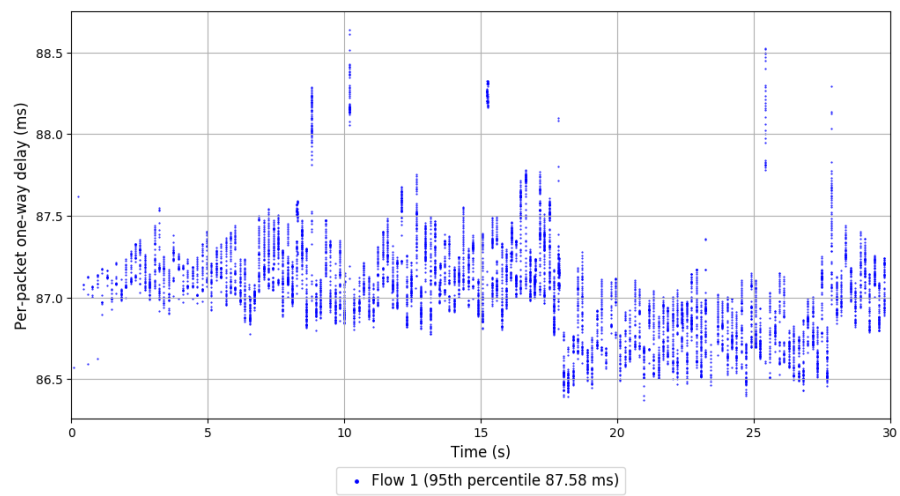
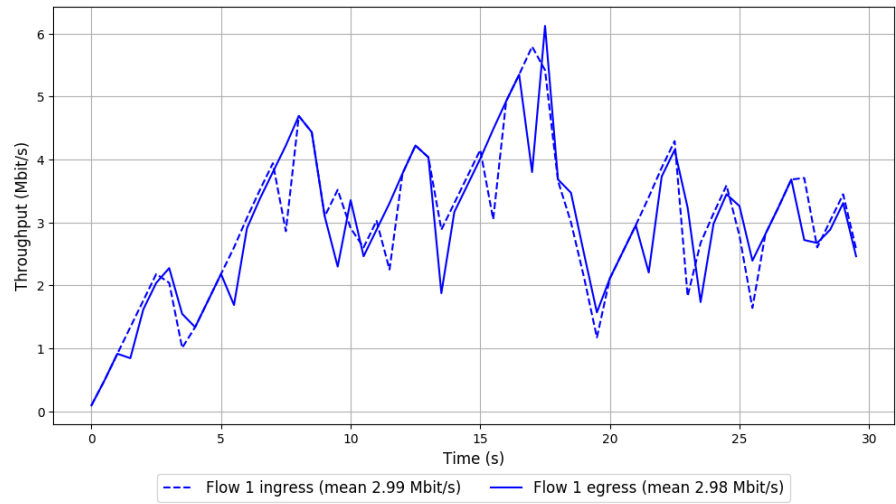
-- Flow 1:

Average throughput: 2.98 Mbit/s

95th percentile per-packet one-way delay: 87.575 ms

Loss rate: 0.80%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-09-21 10:55:53

End at: 2017-09-21 10:56:23

Below is generated by plot.py at 2017-09-21 13:05:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 117.970 ms

Loss rate: 1.00%

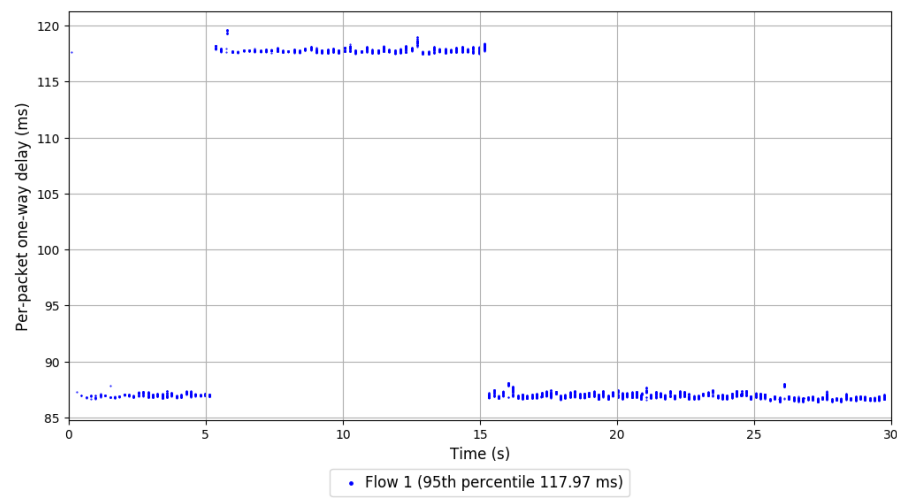
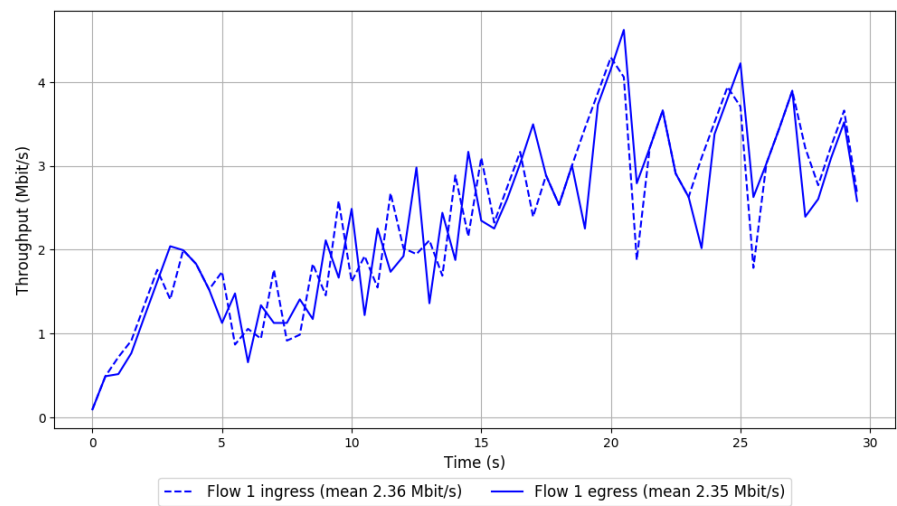
-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 117.970 ms

Loss rate: 1.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-09-21 11:06:52

End at: 2017-09-21 11:07:22

Below is generated by plot.py at 2017-09-21 13:05:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 117.956 ms

Loss rate: 0.69%

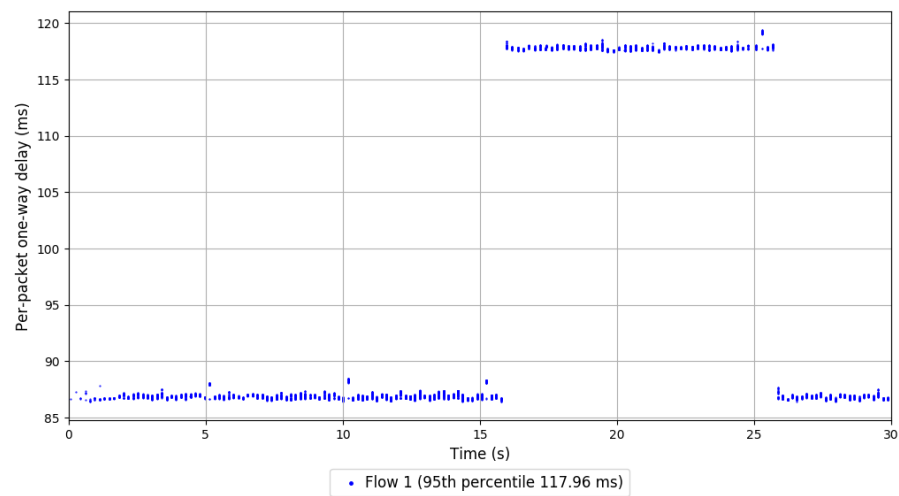
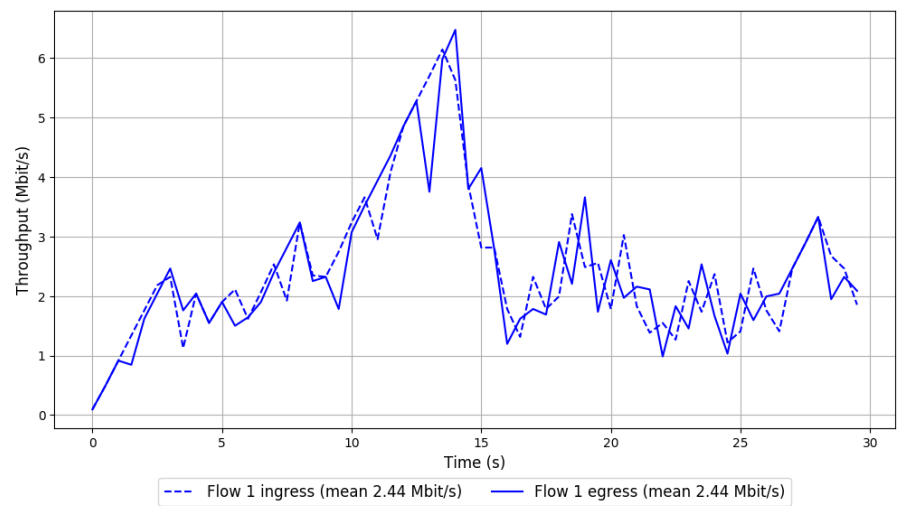
-- Flow 1:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 117.956 ms

Loss rate: 0.69%

Run 10: Report of LEDBAT — Data Link

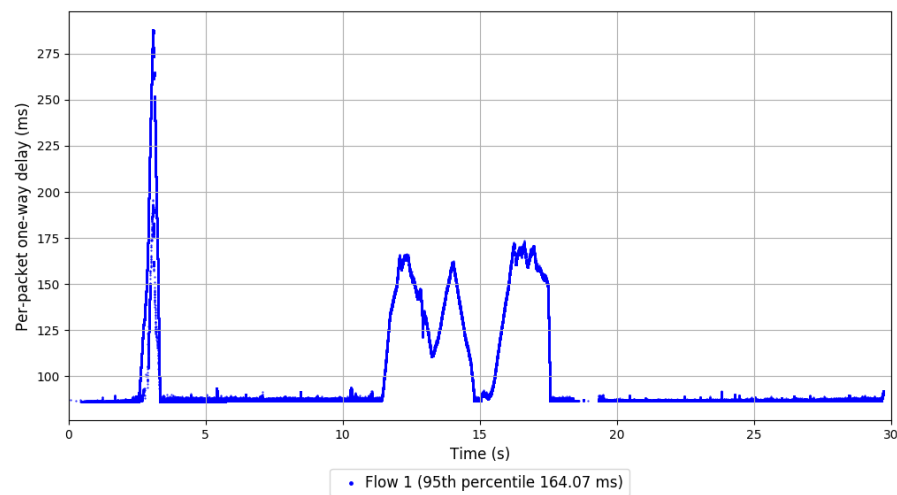
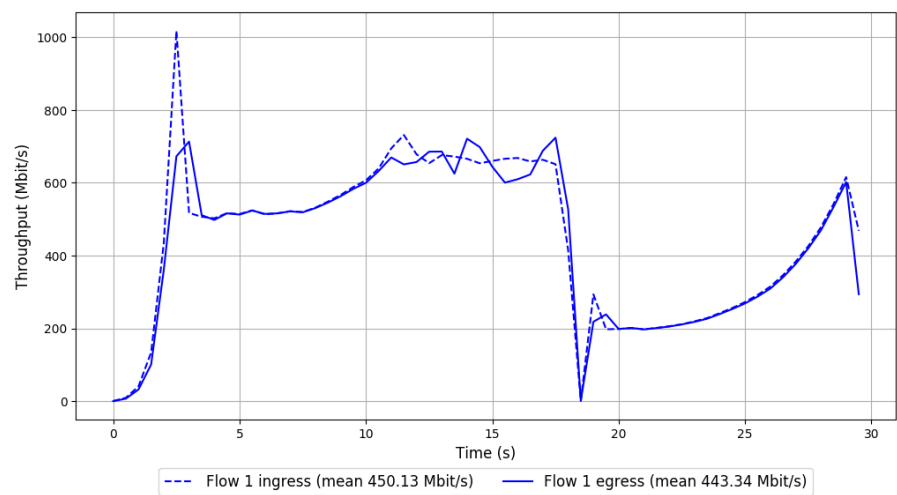


```
Run 1: Statistics of PCC

Start at: 2017-09-21 09:25:22
End at: 2017-09-21 09:25:52

# Below is generated by plot.py at 2017-09-21 13:14:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 443.34 Mbit/s
95th percentile per-packet one-way delay: 164.075 ms
Loss rate: 2.14%
-- Flow 1:
Average throughput: 443.34 Mbit/s
95th percentile per-packet one-way delay: 164.075 ms
Loss rate: 2.14%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-09-21 09:36:44

End at: 2017-09-21 09:37:14

Below is generated by plot.py at 2017-09-21 13:15:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 548.56 Mbit/s

95th percentile per-packet one-way delay: 167.374 ms

Loss rate: 3.00%

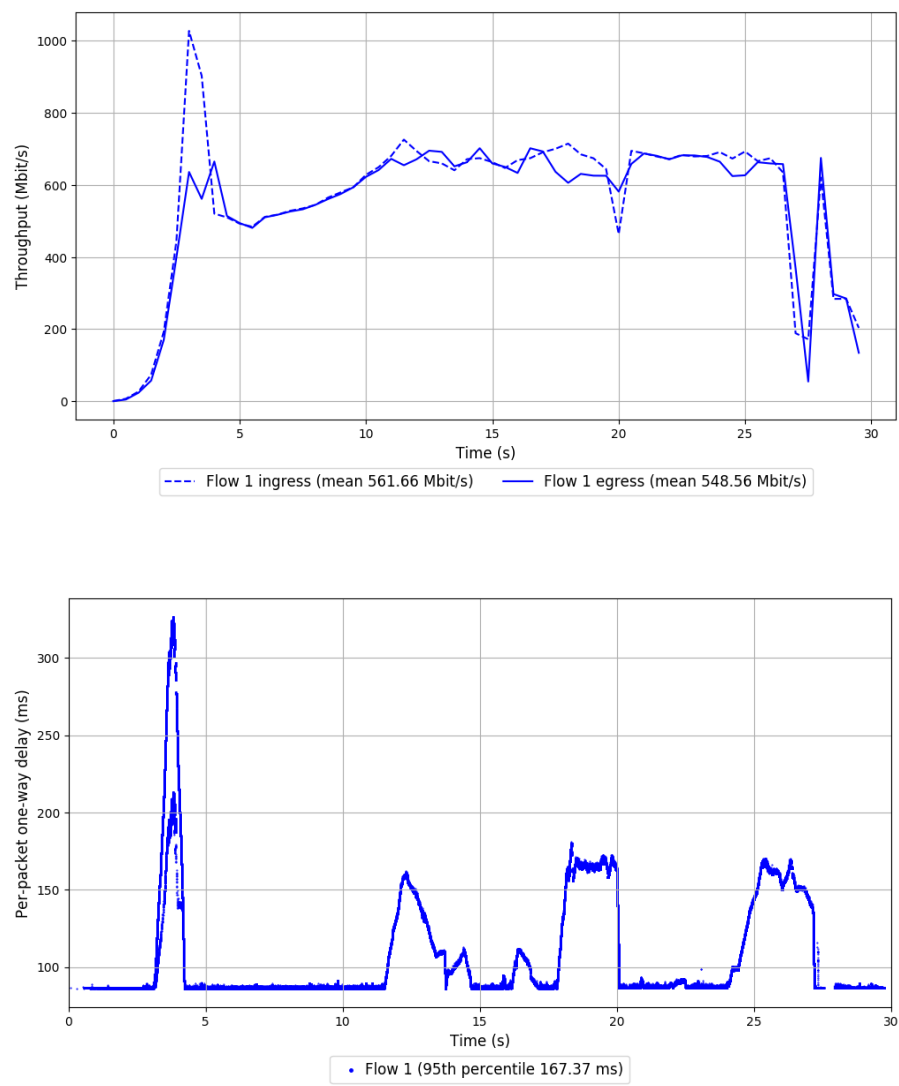
-- Flow 1:

Average throughput: 548.56 Mbit/s

95th percentile per-packet one-way delay: 167.374 ms

Loss rate: 3.00%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-09-21 09:47:54

End at: 2017-09-21 09:48:24

Below is generated by plot.py at 2017-09-21 13:15:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.61 Mbit/s

95th percentile per-packet one-way delay: 115.937 ms

Loss rate: 1.33%

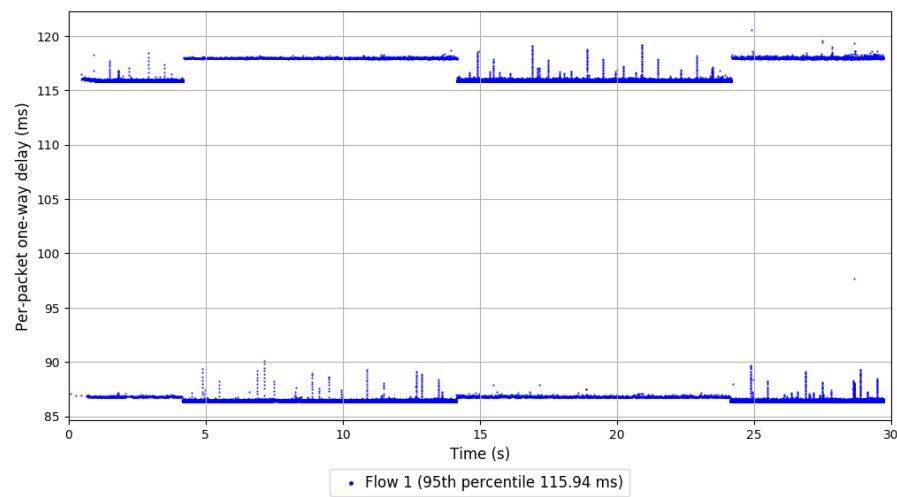
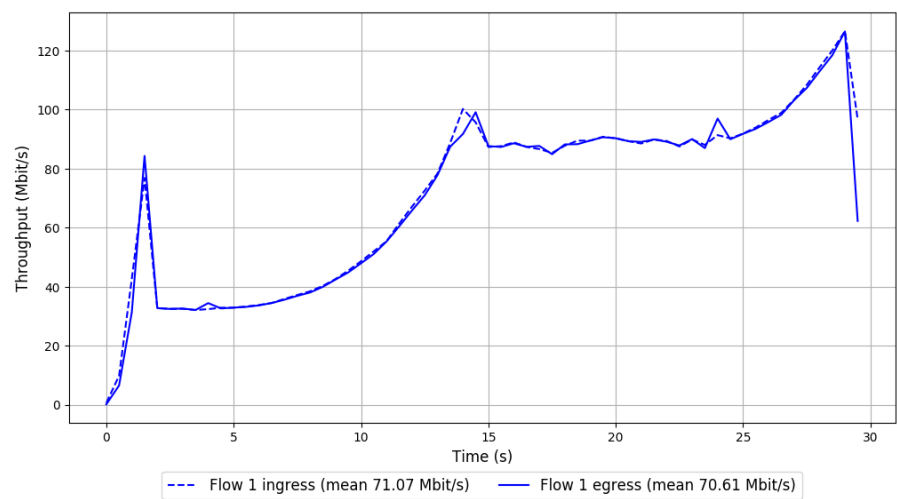
-- Flow 1:

Average throughput: 70.61 Mbit/s

95th percentile per-packet one-way delay: 115.937 ms

Loss rate: 1.33%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-09-21 09:58:20

End at: 2017-09-21 09:58:50

Below is generated by plot.py at 2017-09-21 13:15:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 601.26 Mbit/s

95th percentile per-packet one-way delay: 152.450 ms

Loss rate: 1.80%

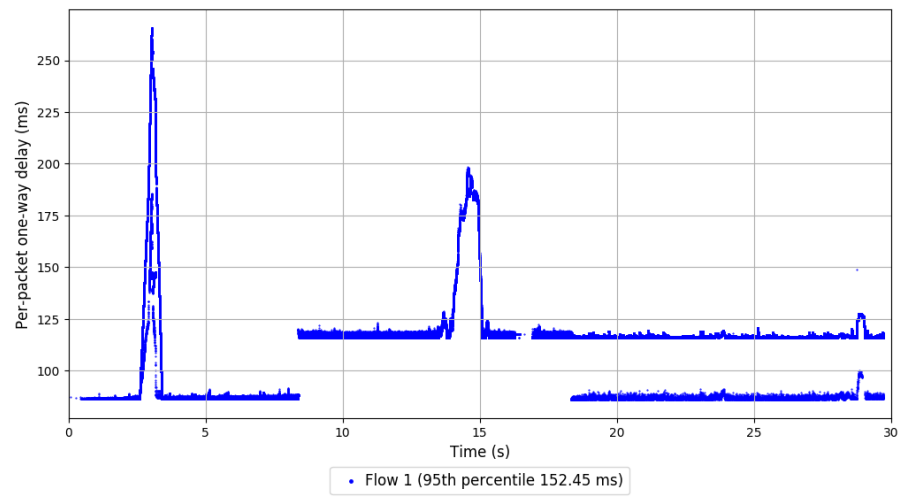
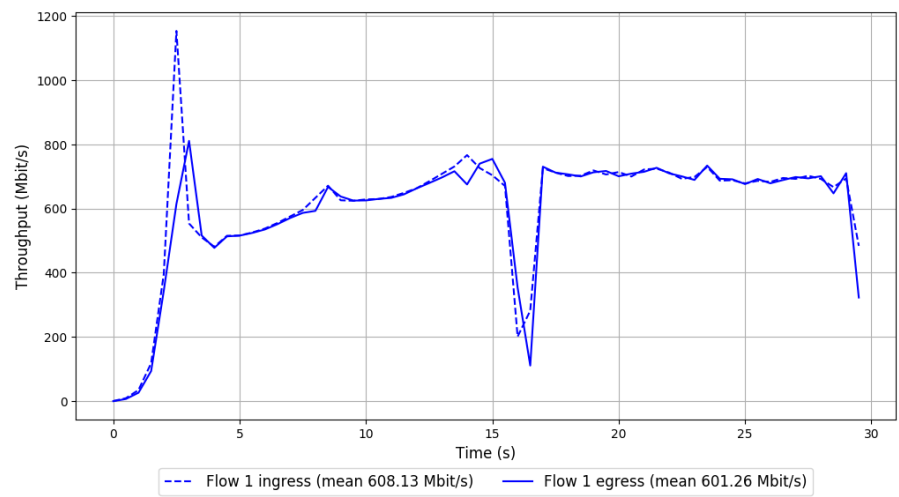
-- Flow 1:

Average throughput: 601.26 Mbit/s

95th percentile per-packet one-way delay: 152.450 ms

Loss rate: 1.80%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-09-21 10:09:41

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

Below is generated by plot.py at 2017-09-21 13:15:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 574.13 Mbit/s

95th percentile per-packet one-way delay: 104.865 ms

Loss rate: 1.66%

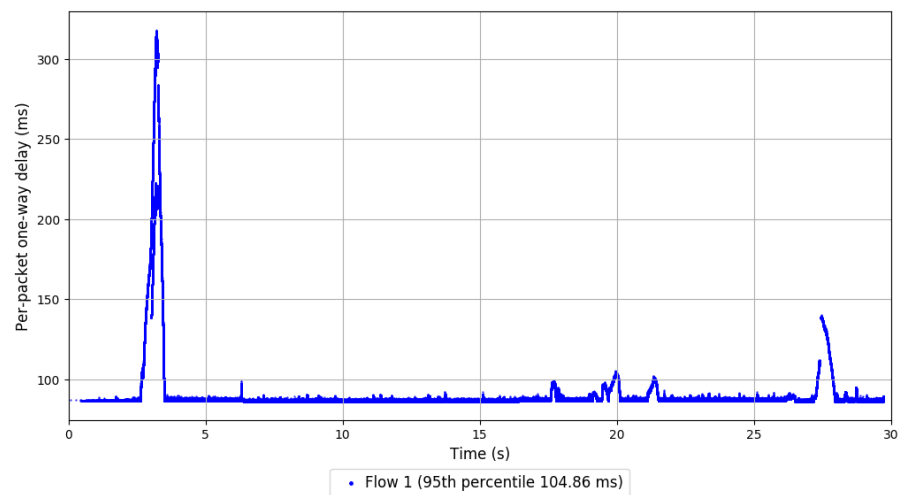
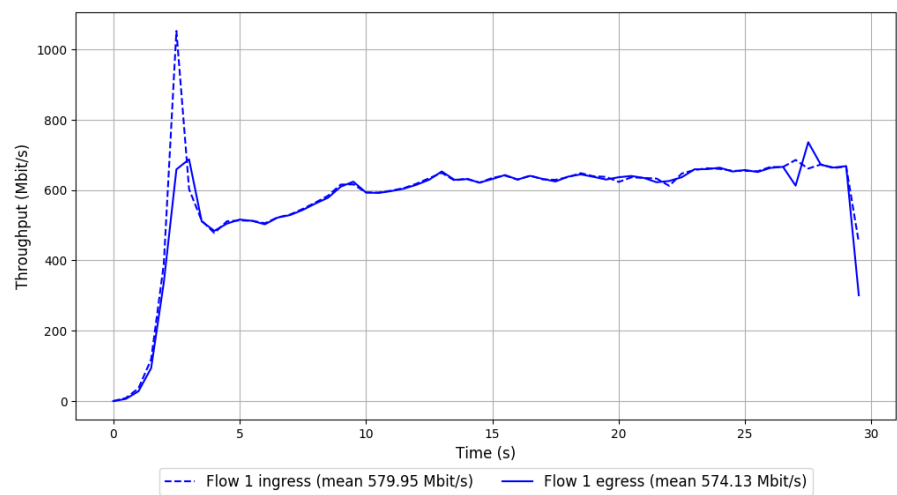
-- Flow 1:

Average throughput: 574.13 Mbit/s

95th percentile per-packet one-way delay: 104.865 ms

Loss rate: 1.66%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-09-21 10:20:35

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

Below is generated by plot.py at 2017-09-21 13:16:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 612.22 Mbit/s

95th percentile per-packet one-way delay: 154.144 ms

Loss rate: 1.12%

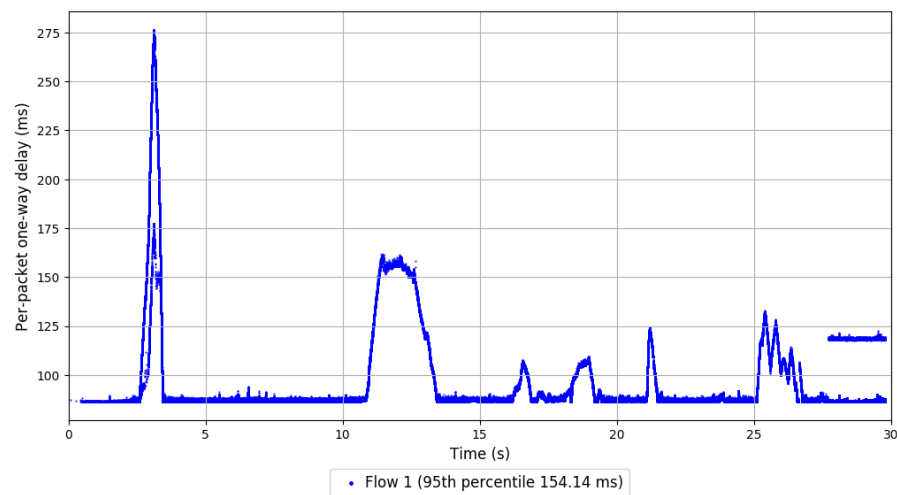
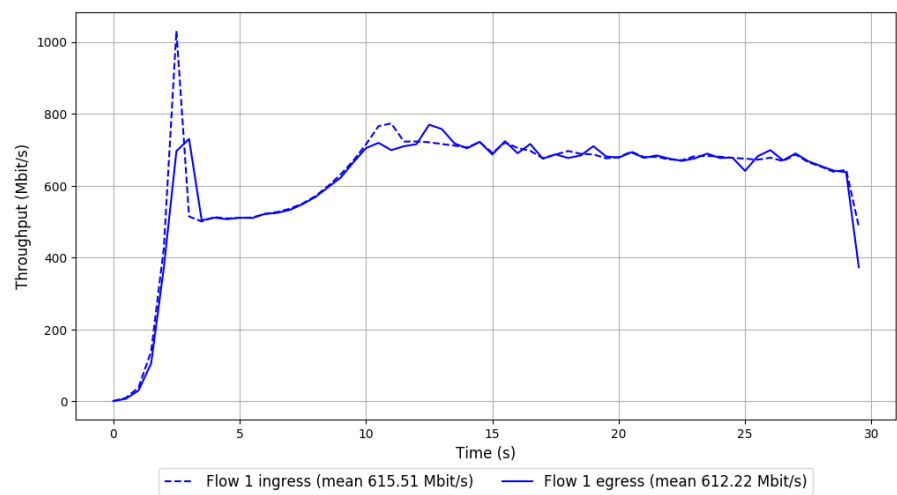
-- Flow 1:

Average throughput: 612.22 Mbit/s

95th percentile per-packet one-way delay: 154.144 ms

Loss rate: 1.12%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-09-21 10:31:34

End at: 2017-09-21 10:32:04

Below is generated by plot.py at 2017-09-21 13:16:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 605.10 Mbit/s

95th percentile per-packet one-way delay: 158.970 ms

Loss rate: 3.16%

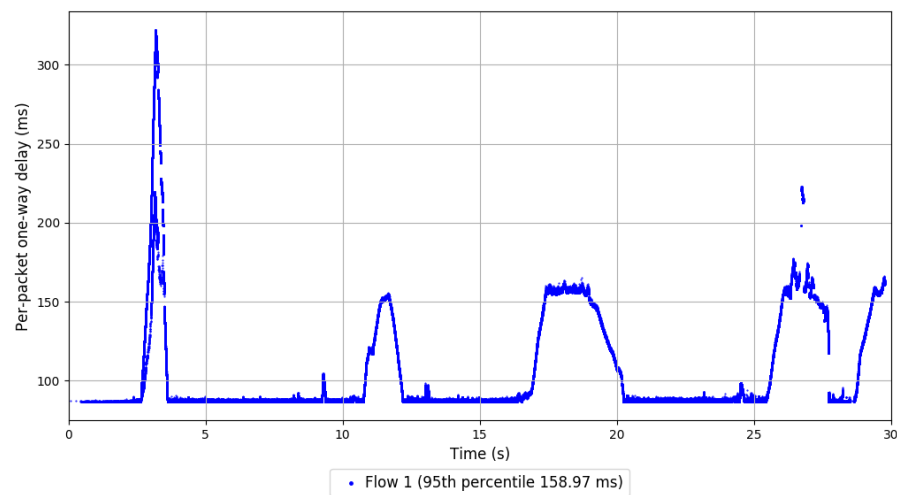
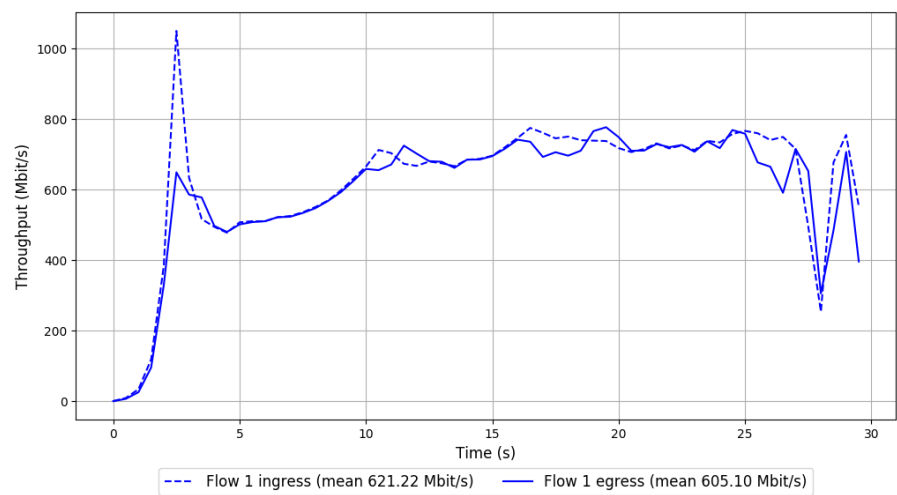
-- Flow 1:

Average throughput: 605.10 Mbit/s

95th percentile per-packet one-way delay: 158.970 ms

Loss rate: 3.16%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-09-21 10:42:32

End at: 2017-09-21 10:43:02

Below is generated by plot.py at 2017-09-21 13:16:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 584.02 Mbit/s

95th percentile per-packet one-way delay: 160.098 ms

Loss rate: 1.69%

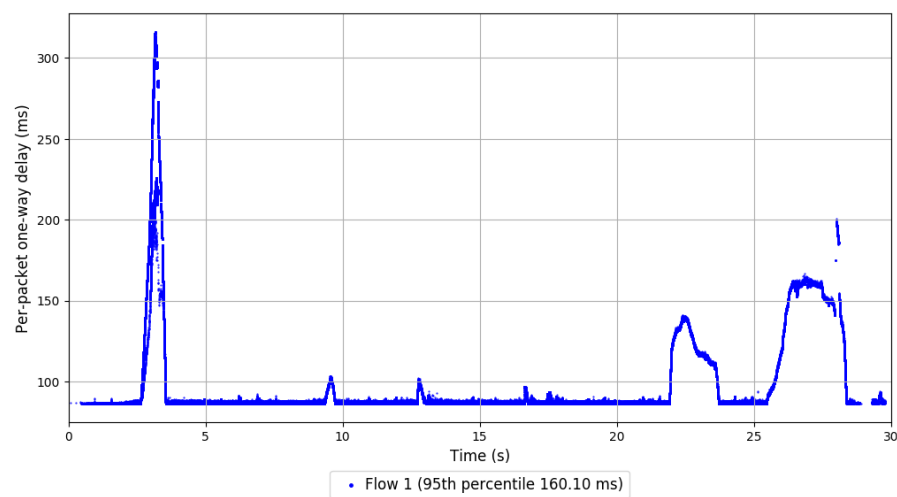
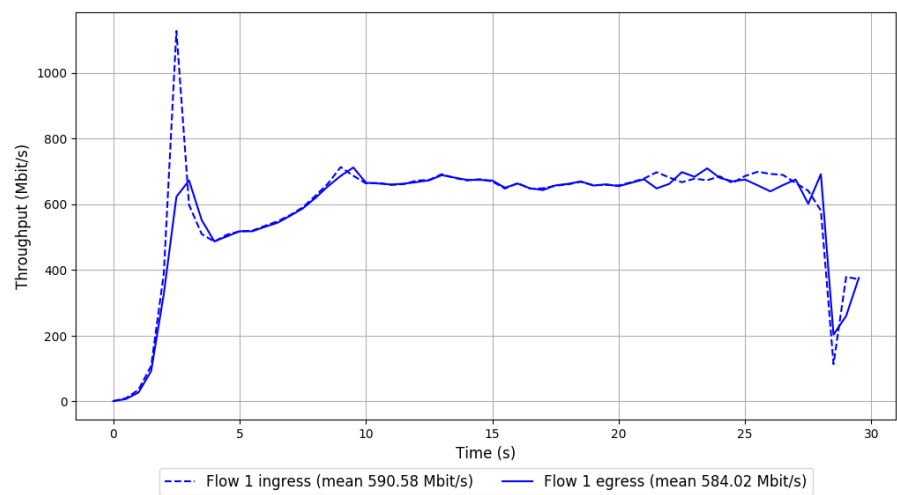
-- Flow 1:

Average throughput: 584.02 Mbit/s

95th percentile per-packet one-way delay: 160.098 ms

Loss rate: 1.69%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-09-21 10:53:17

End at: 2017-09-21 10:53:47

Below is generated by plot.py at 2017-09-21 13:17:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 604.85 Mbit/s

95th percentile per-packet one-way delay: 156.294 ms

Loss rate: 2.30%

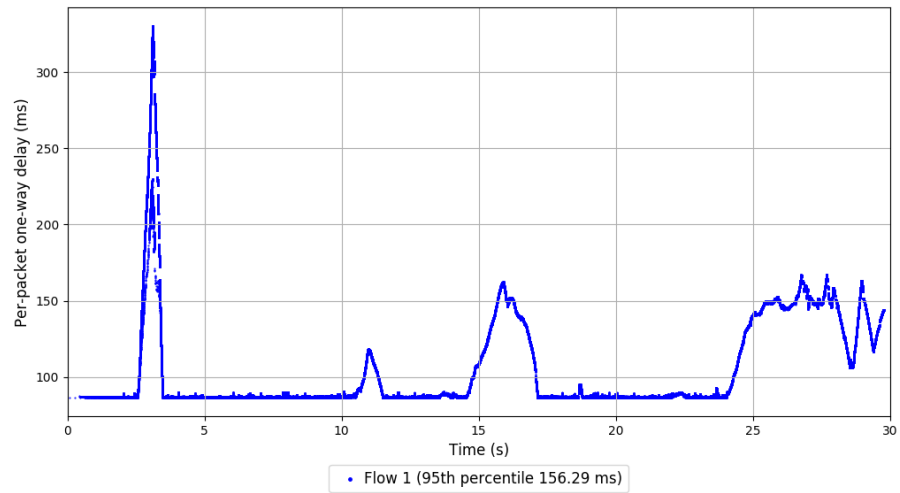
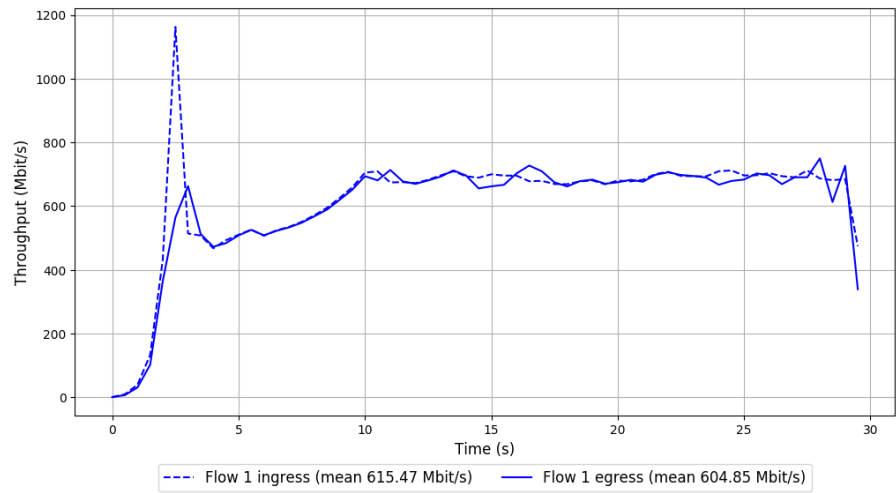
-- Flow 1:

Average throughput: 604.85 Mbit/s

95th percentile per-packet one-way delay: 156.294 ms

Loss rate: 2.30%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-09-21 11:04:15

End at: 2017-09-21 11:04:45

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 576.12 Mbit/s

95th percentile per-packet one-way delay: 171.423 ms

Loss rate: 1.46%

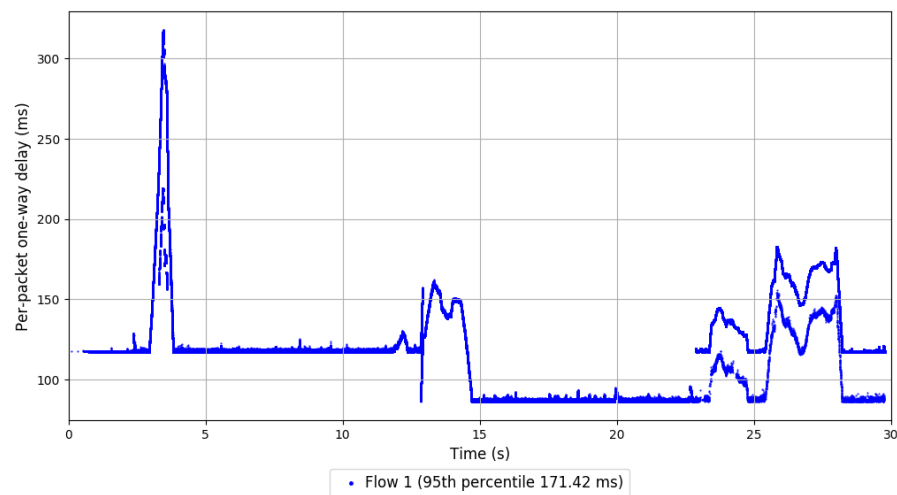
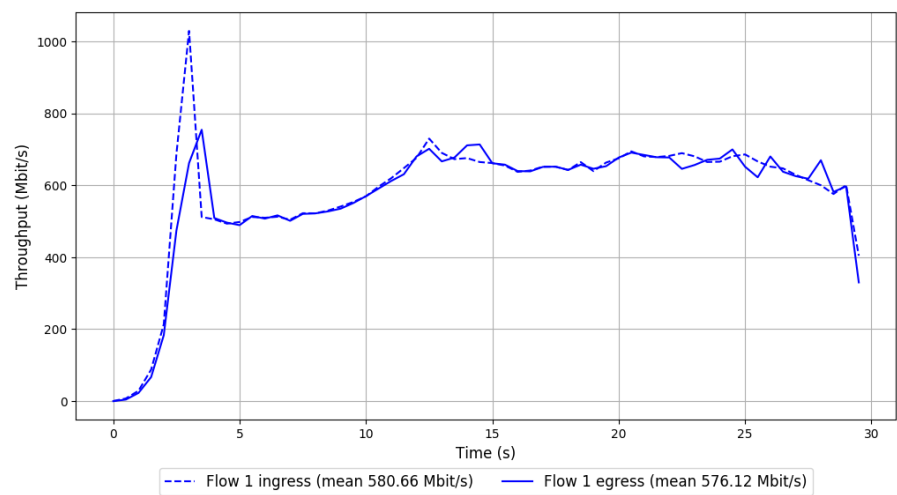
-- Flow 1:

Average throughput: 576.12 Mbit/s

95th percentile per-packet one-way delay: 171.423 ms

Loss rate: 1.46%

Run 10: Report of PCC — Data Link

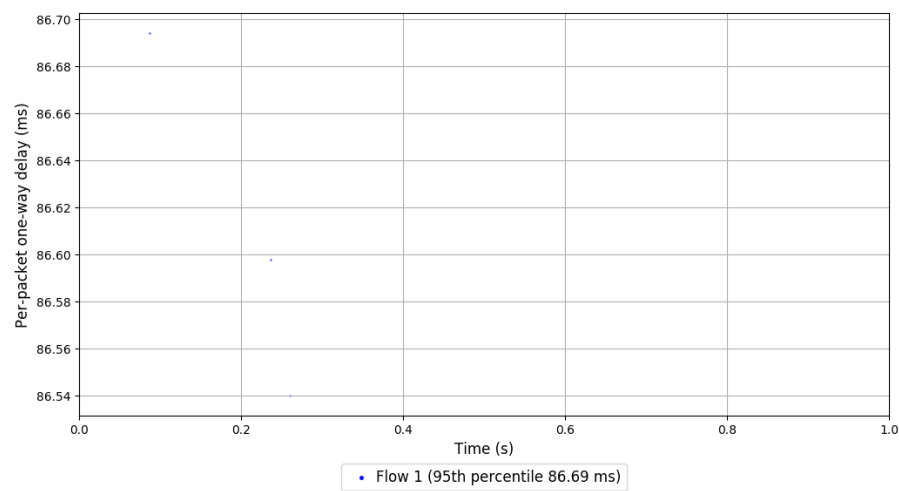
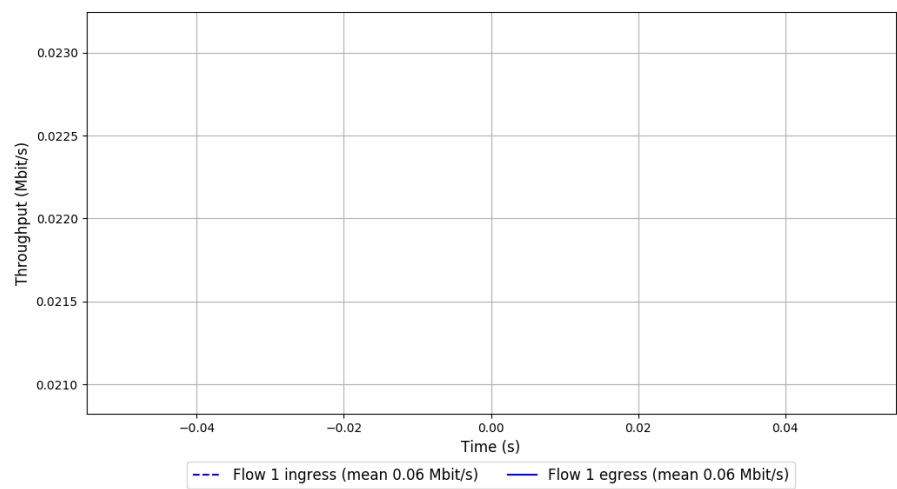


Run 1: Statistics of QUIC Cubic

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

End at: 2017-09-21 09:20:14

Run 1: Report of QUIC Cubic — Data Link

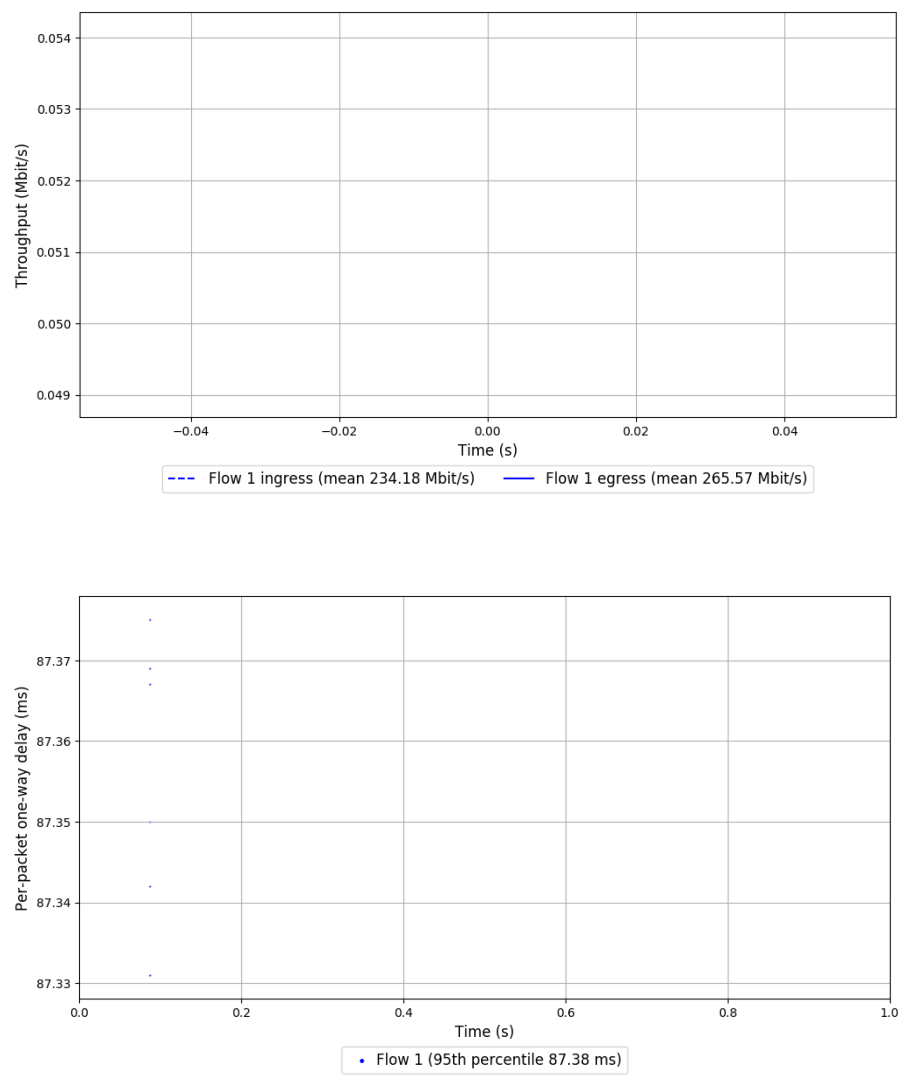


Run 2: Statistics of QUIC Cubic

Start at: 2017-09-21 09:31:11

End at: 2017-09-21 09:31:41

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-09-21 09:42:25

End at: 2017-09-21 09:42:55

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.74 Mbit/s

95th percentile per-packet one-way delay: 86.905 ms

Loss rate: 1.01%

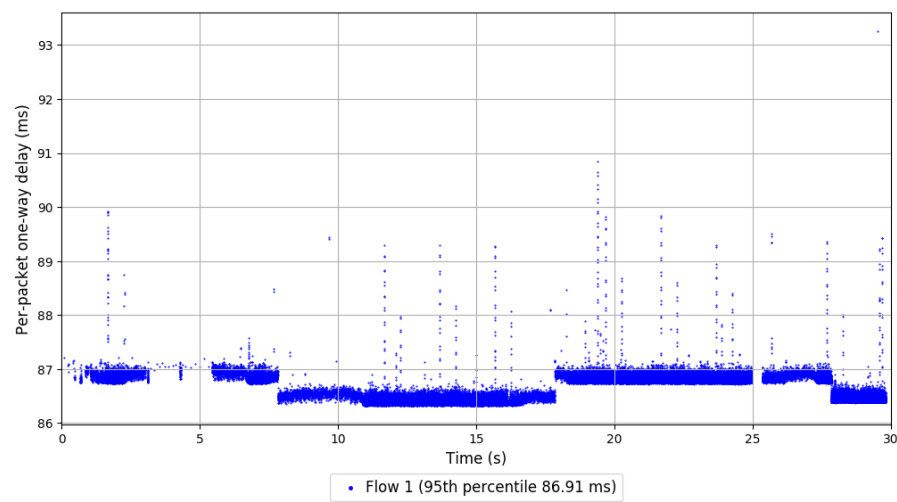
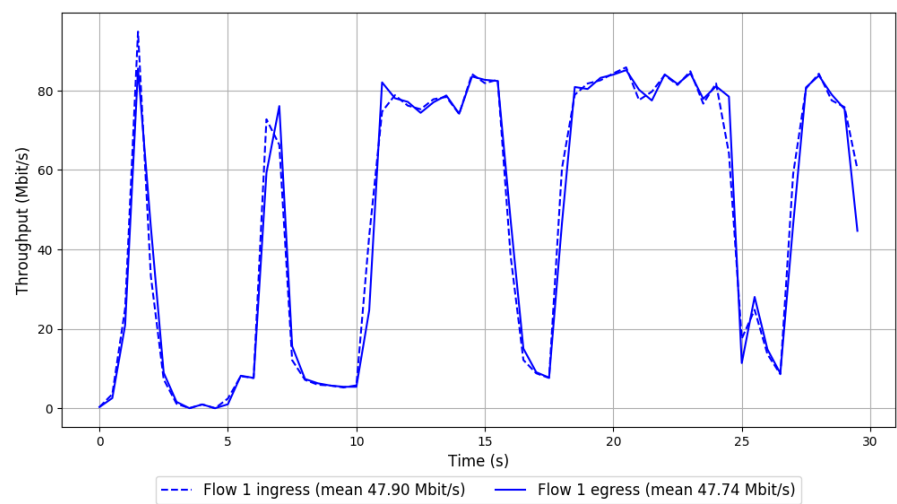
-- Flow 1:

Average throughput: 47.74 Mbit/s

95th percentile per-packet one-way delay: 86.905 ms

Loss rate: 1.01%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-09-21 09:52:50

End at: 2017-09-21 09:53:20

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.05 Mbit/s

95th percentile per-packet one-way delay: 118.107 ms

Loss rate: 0.80%

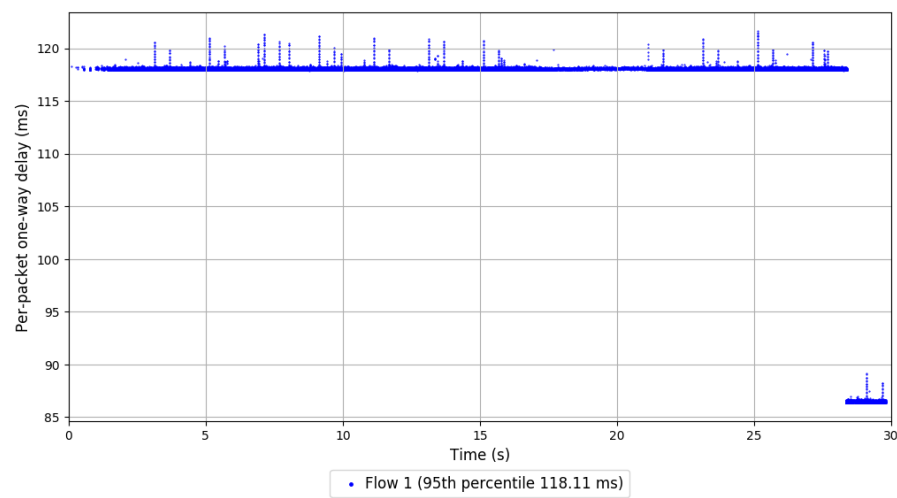
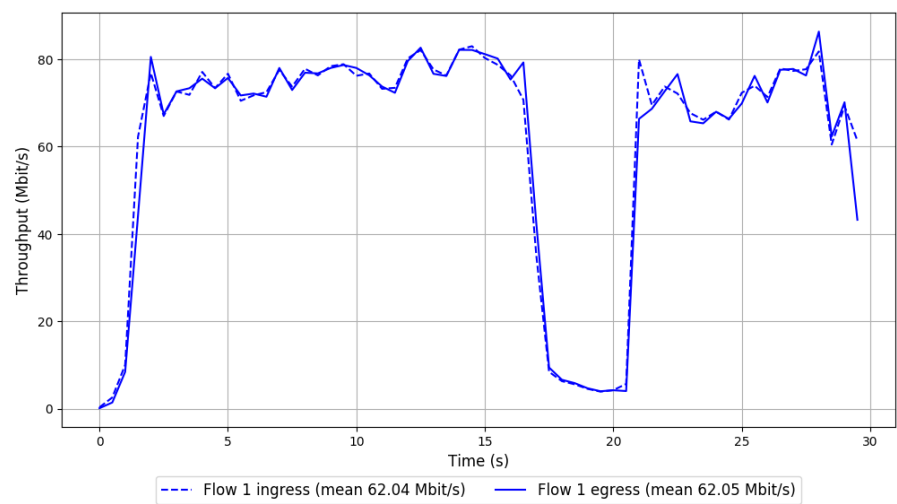
-- Flow 1:

Average throughput: 62.05 Mbit/s

95th percentile per-packet one-way delay: 118.107 ms

Loss rate: 0.80%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-09-21 10:03:57

End at: 2017-09-21 10:04:27

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.29 Mbit/s

95th percentile per-packet one-way delay: 86.626 ms

Loss rate: 0.97%

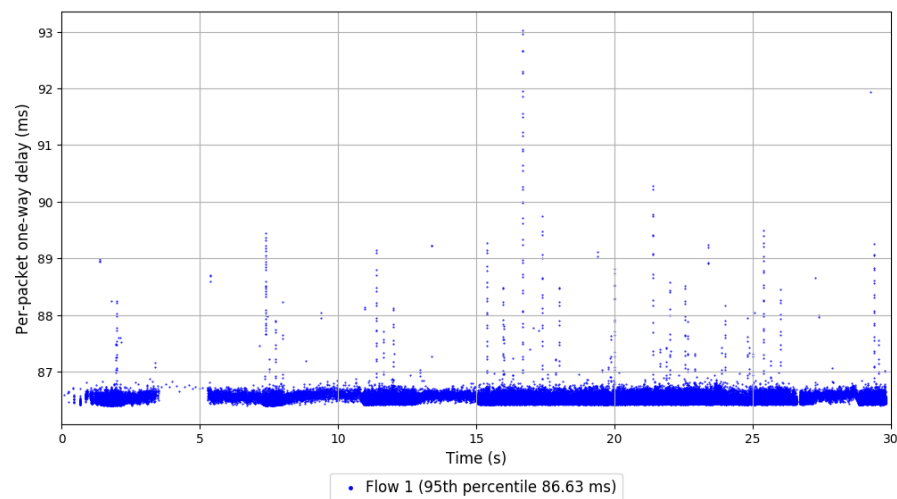
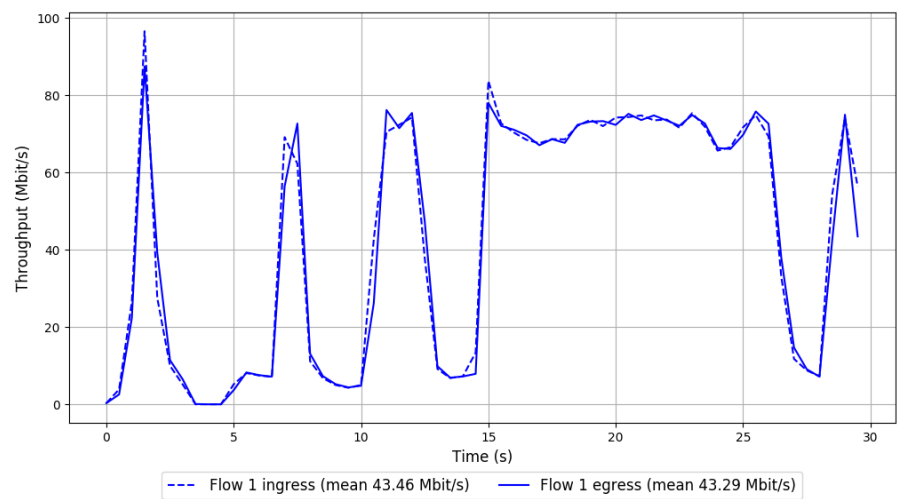
-- Flow 1:

Average throughput: 43.29 Mbit/s

95th percentile per-packet one-way delay: 86.626 ms

Loss rate: 0.97%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-09-21 10:15:10

End at: 2017-09-21 10:15:40

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.48 Mbit/s

95th percentile per-packet one-way delay: 117.579 ms

Loss rate: 0.55%

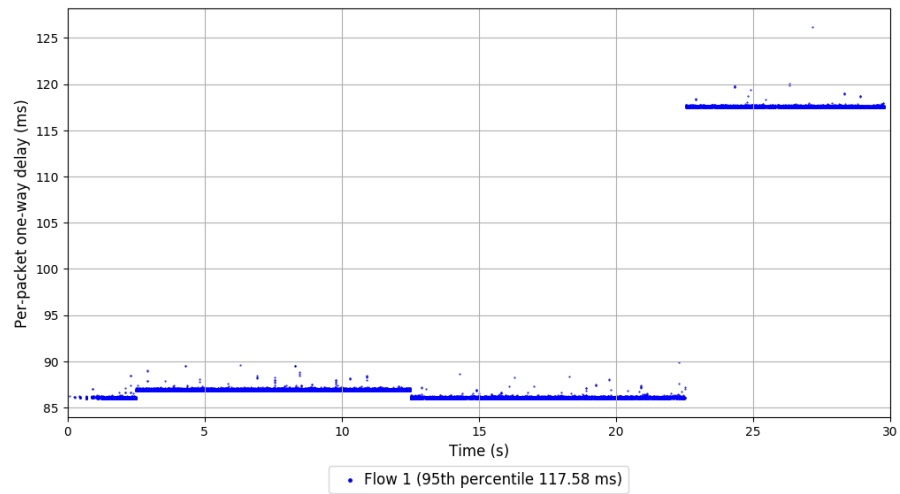
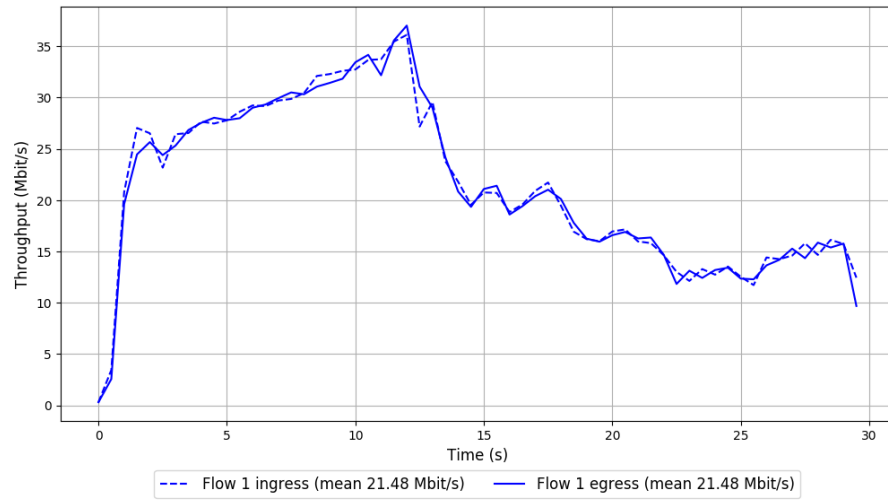
-- Flow 1:

Average throughput: 21.48 Mbit/s

95th percentile per-packet one-way delay: 117.579 ms

Loss rate: 0.55%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-09-21 10:26:13

End at: 2017-09-21 10:26:44

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.08 Mbit/s

95th percentile per-packet one-way delay: 86.465 ms

Loss rate: 0.58%

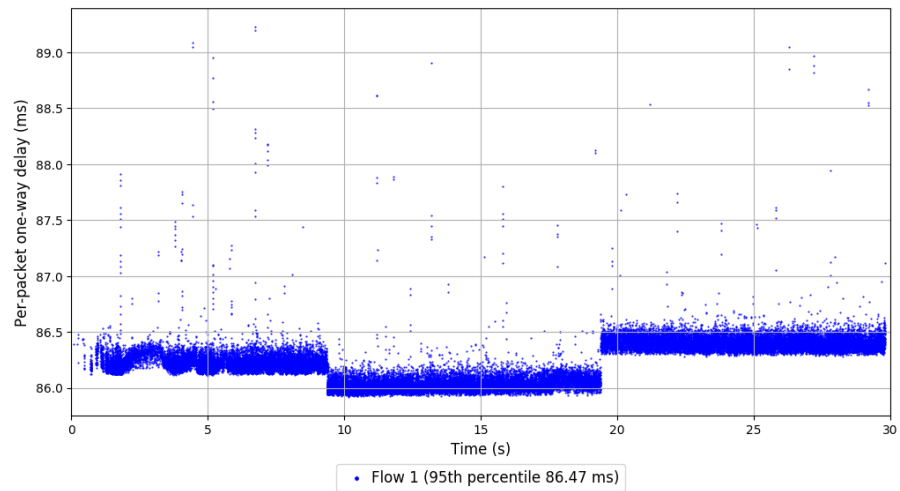
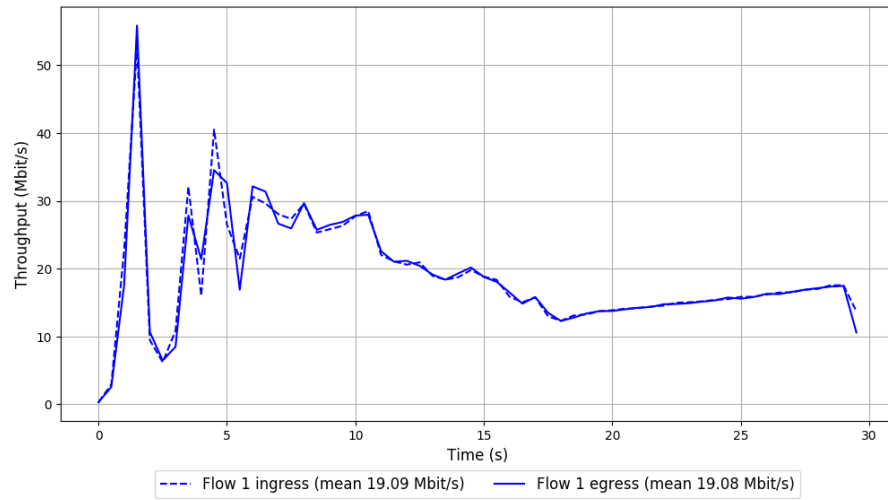
-- Flow 1:

Average throughput: 19.08 Mbit/s

95th percentile per-packet one-way delay: 86.465 ms

Loss rate: 0.58%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-09-21 10:37:13

End at: 2017-09-21 10:37:43

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.55 Mbit/s

95th percentile per-packet one-way delay: 86.944 ms

Loss rate: 0.46%

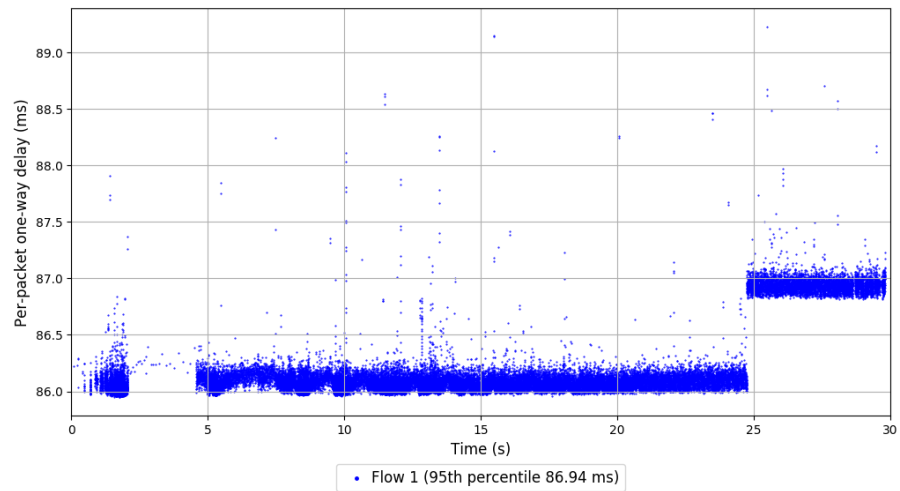
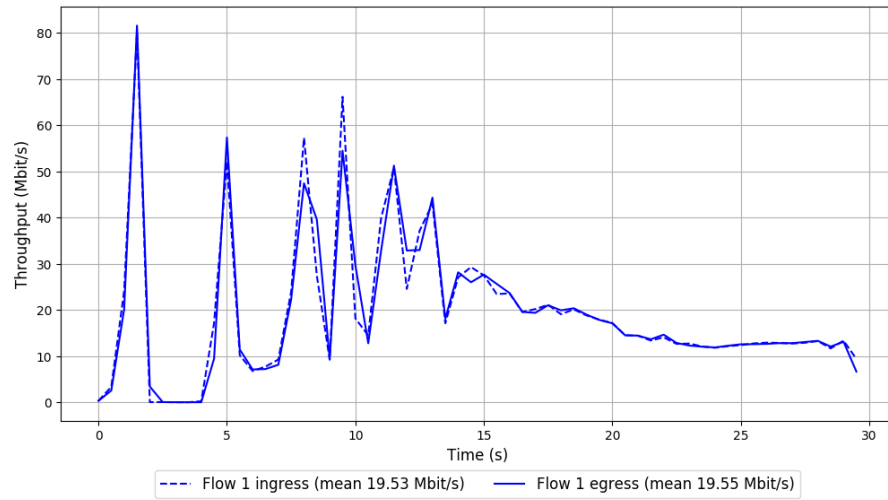
-- Flow 1:

Average throughput: 19.55 Mbit/s

95th percentile per-packet one-way delay: 86.944 ms

Loss rate: 0.46%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-09-21 10:47:54

End at: 2017-09-21 10:48:24

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.04 Mbit/s

95th percentile per-packet one-way delay: 86.958 ms

Loss rate: 0.86%

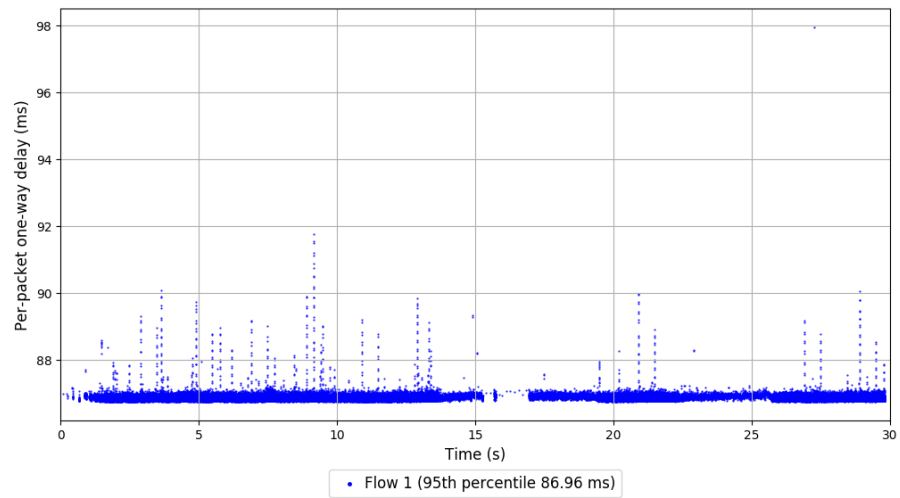
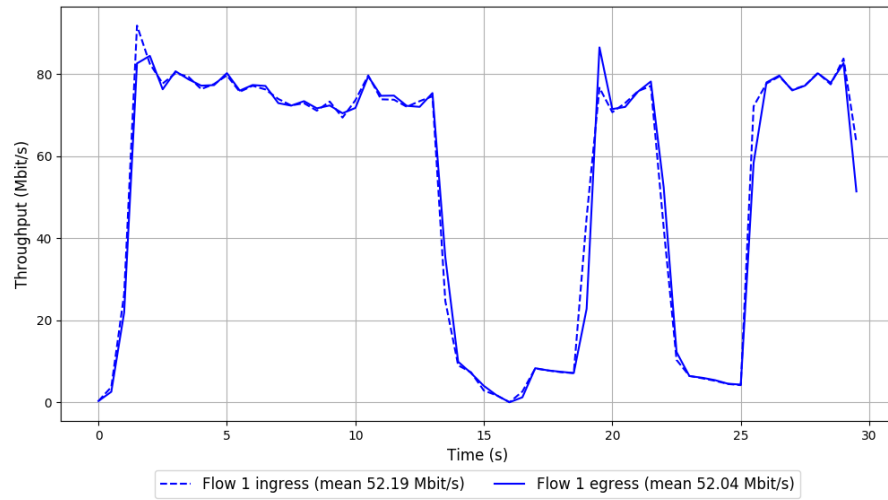
-- Flow 1:

Average throughput: 52.04 Mbit/s

95th percentile per-packet one-way delay: 86.958 ms

Loss rate: 0.86%

Run 9: Report of QUIC Cubic — Data Link

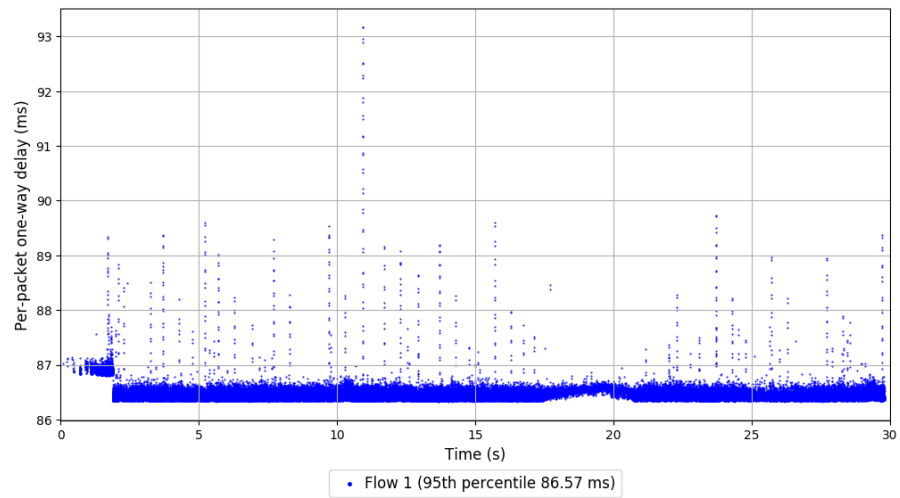
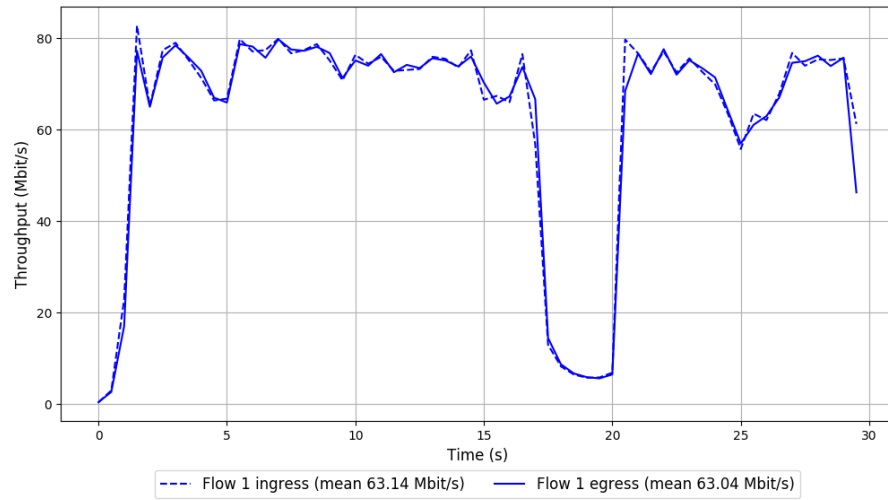


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-09-21 10:58:51
End at: 2017-09-21 10:59:21

# Below is generated by plot.py at 2017-09-21 13:25:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.04 Mbit/s
95th percentile per-packet one-way delay: 86.572 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 63.04 Mbit/s
95th percentile per-packet one-way delay: 86.572 ms
Loss rate: 0.75%
```

Run 10: Report of QUIC Cubic — Data Link

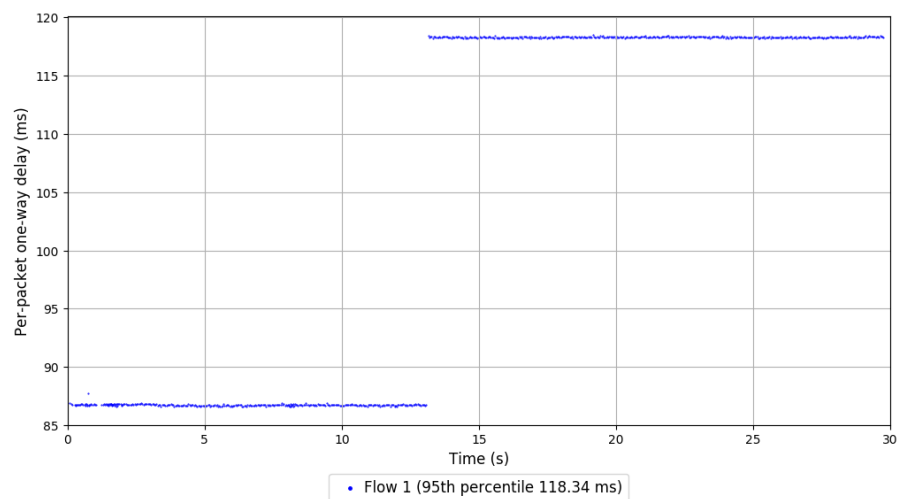
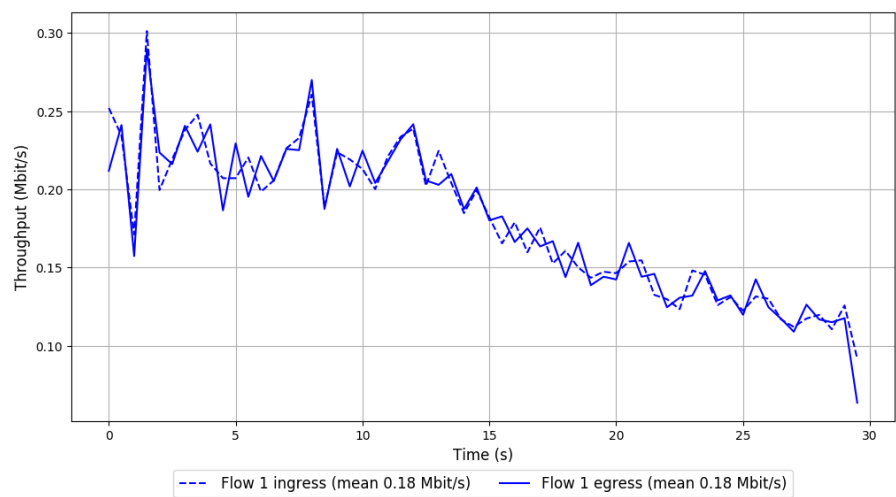


```
Run 1: Statistics of SCReAM

Start at: 2017-09-21 09:20:25
End at: 2017-09-21 09:20:55

# Below is generated by plot.py at 2017-09-21 13:25:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 118.336 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 118.336 ms
Loss rate: 0.51%
```

Run 1: Report of SReAM — Data Link

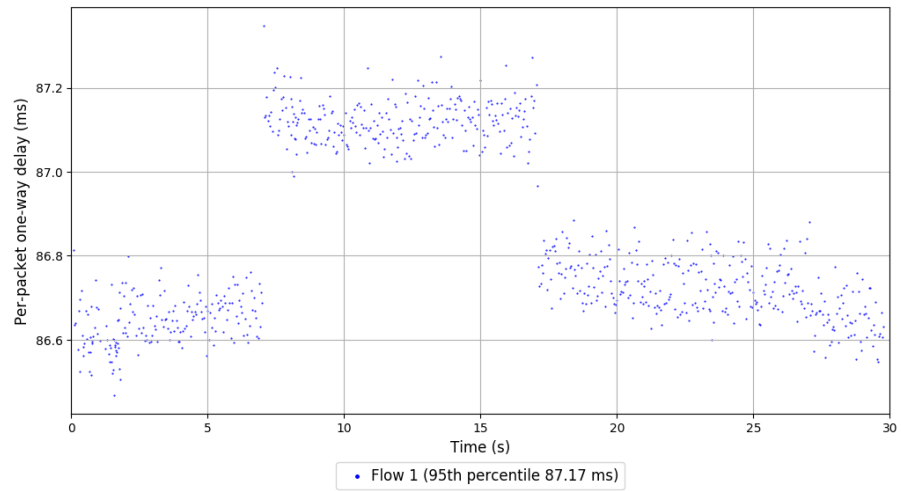
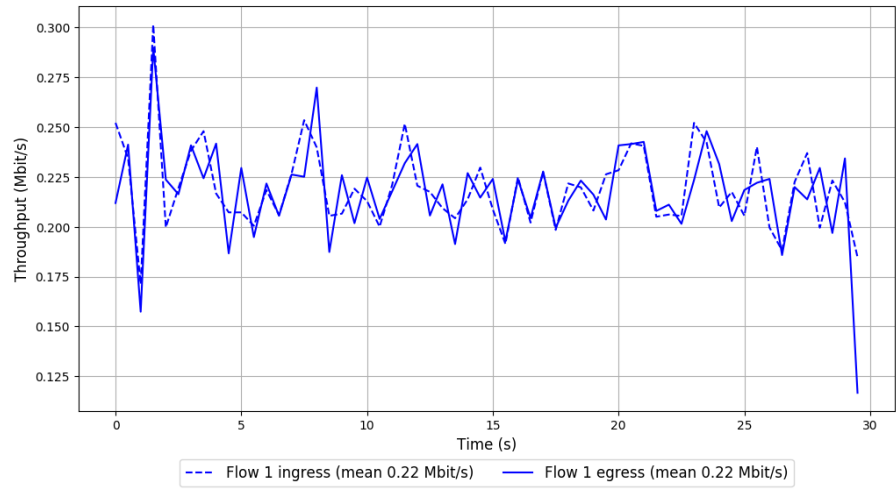


```
Run 2: Statistics of SCReAM

Start at: 2017-09-21 09:31:51
End at: 2017-09-21 09:32:21

# Below is generated by plot.py at 2017-09-21 13:25:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.170 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.170 ms
Loss rate: 0.77%
```

Run 2: Report of SCRaM — Data Link



Run 3: Statistics of SCReAM

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

End at: 2017-09-21 09:43:39

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 86.946 ms

Loss rate: 0.77%

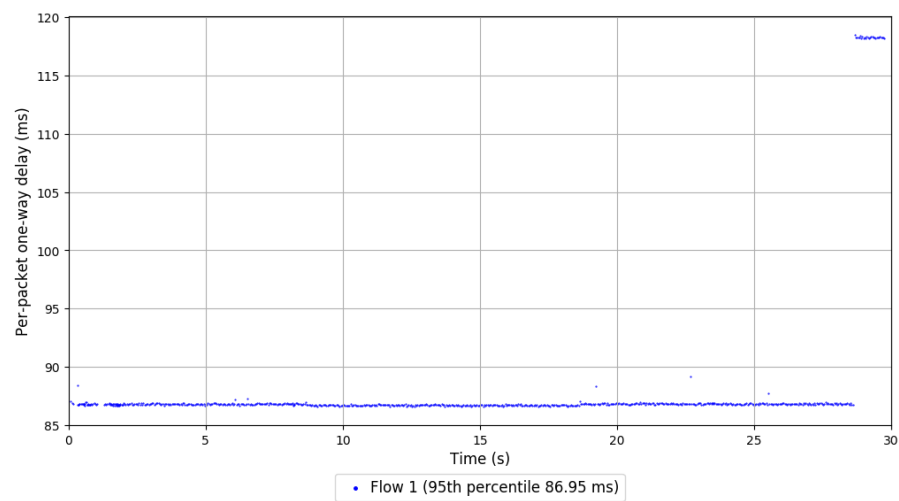
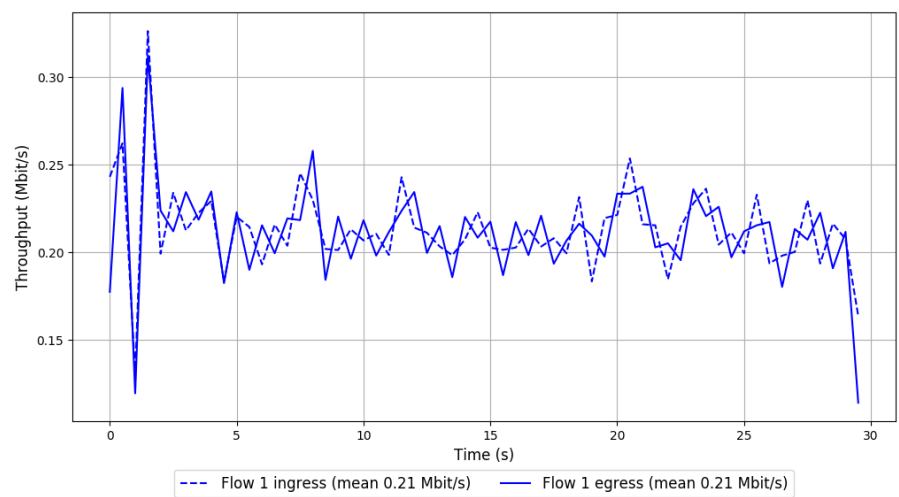
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 86.946 ms

Loss rate: 0.77%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-09-21 09:53:34

End at: 2017-09-21 09:54:04

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 87.031 ms

Loss rate: 0.76%

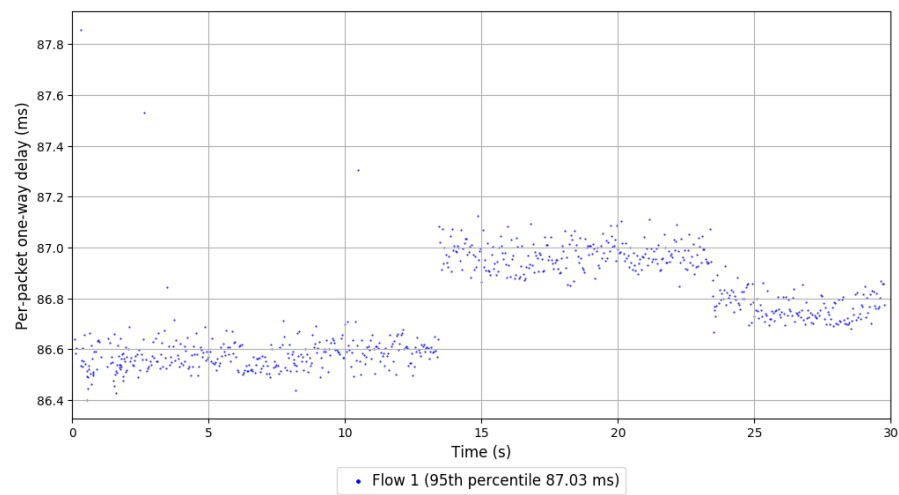
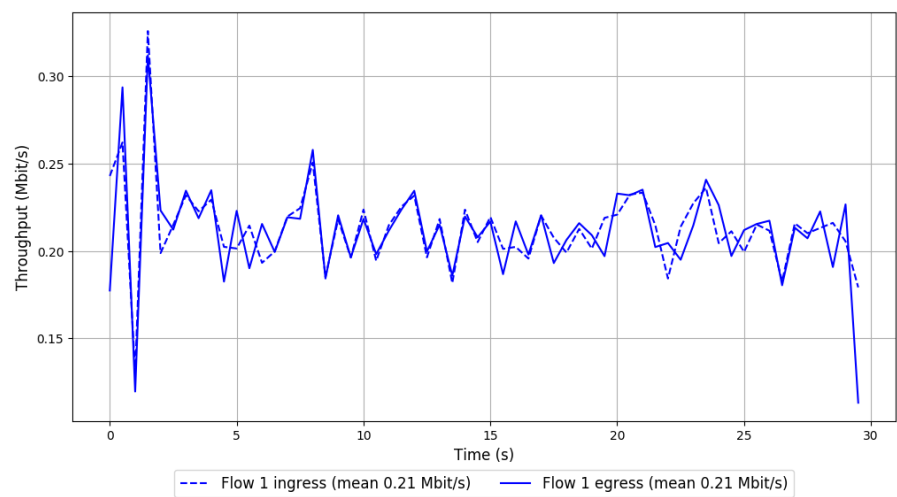
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 87.031 ms

Loss rate: 0.76%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-09-21 10:04:42

End at: 2017-09-21 10:05:12

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.020 ms

Loss rate: 0.77%

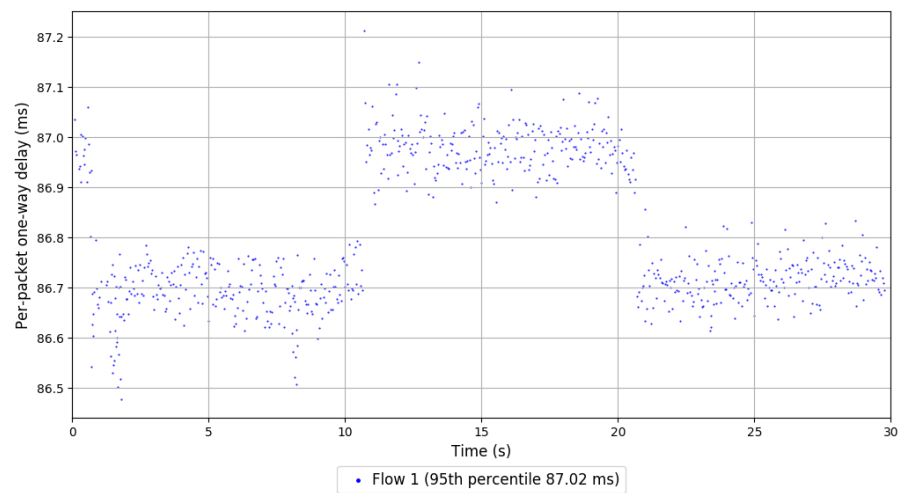
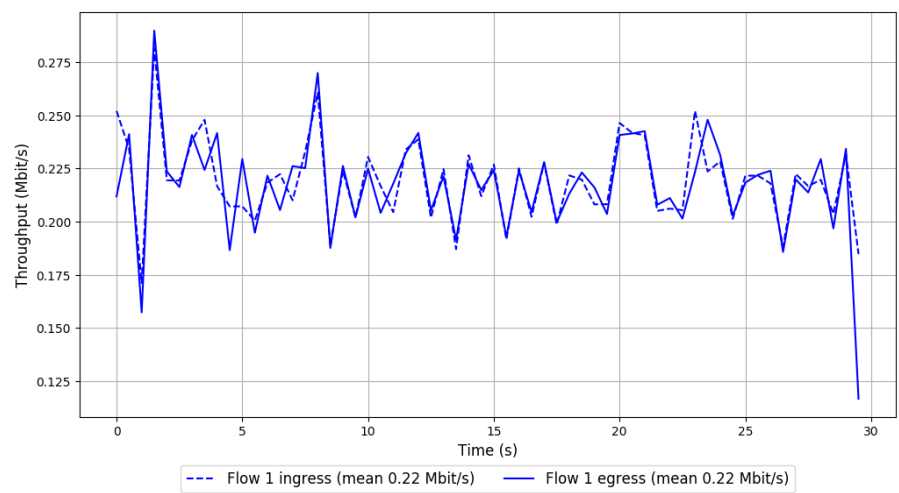
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.020 ms

Loss rate: 0.77%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-09-21 10:15:51

End at: 2017-09-21 10:16:21

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 117.842 ms

Loss rate: 0.49%

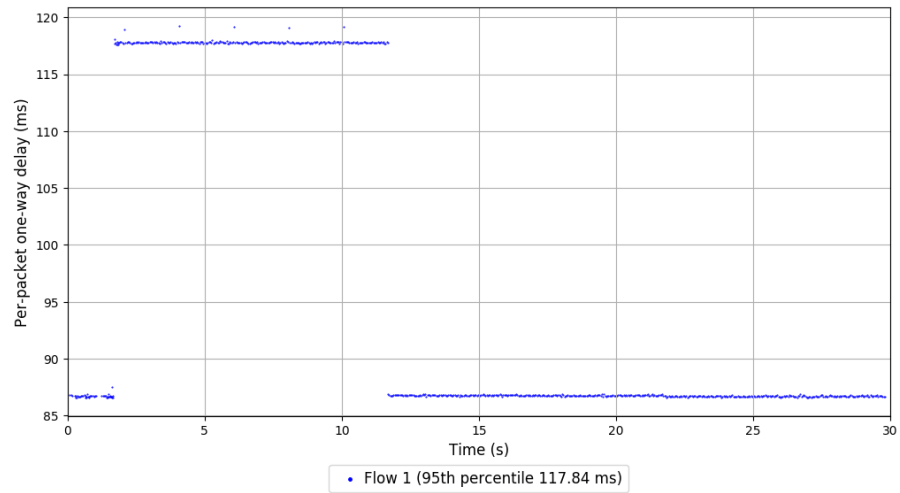
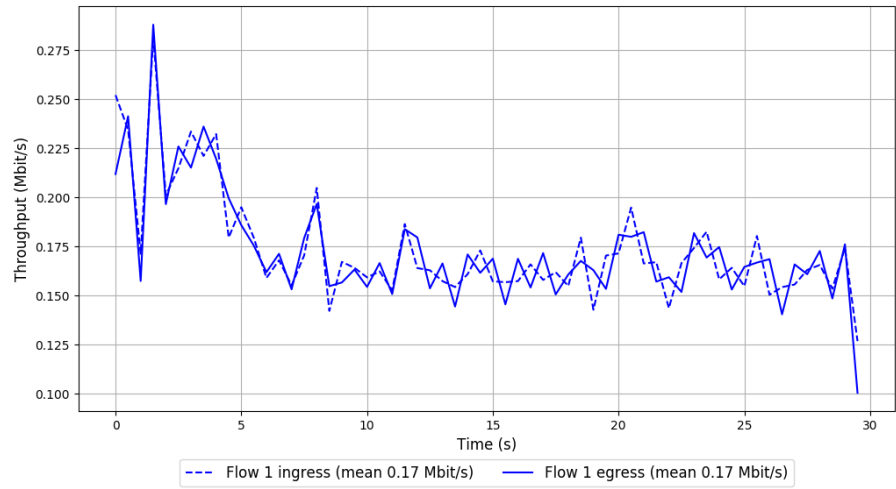
-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 117.842 ms

Loss rate: 0.49%

Run 6: Report of SReAM — Data Link

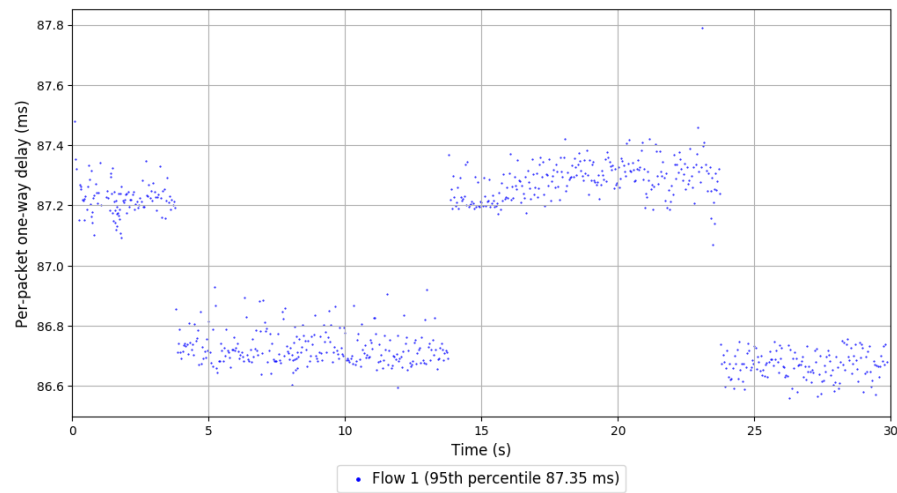
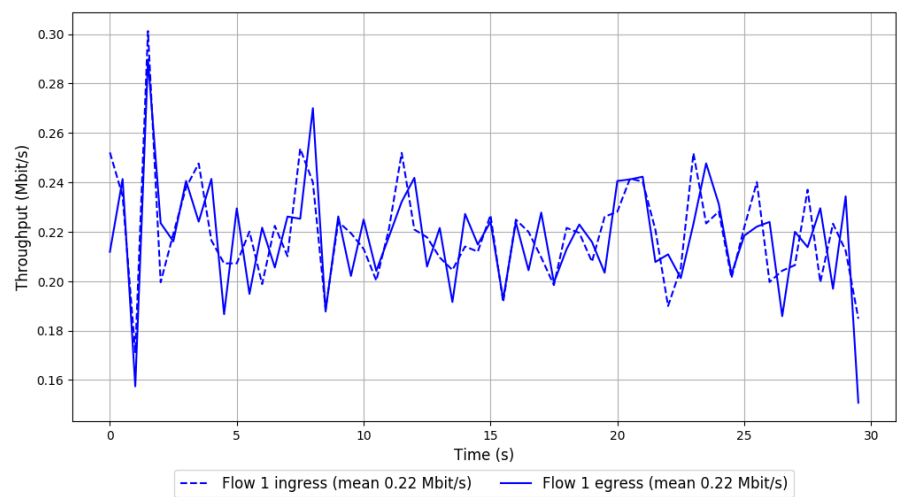


```
Run 7: Statistics of SCReAM

Start at: 2017-09-21 10:26:54
End at: 2017-09-21 10:27:24

# Below is generated by plot.py at 2017-09-21 13:25:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.349 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.349 ms
Loss rate: 0.51%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-09-21 10:37:54

End at: 2017-09-21 10:38:24

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.066 ms

Loss rate: 0.52%

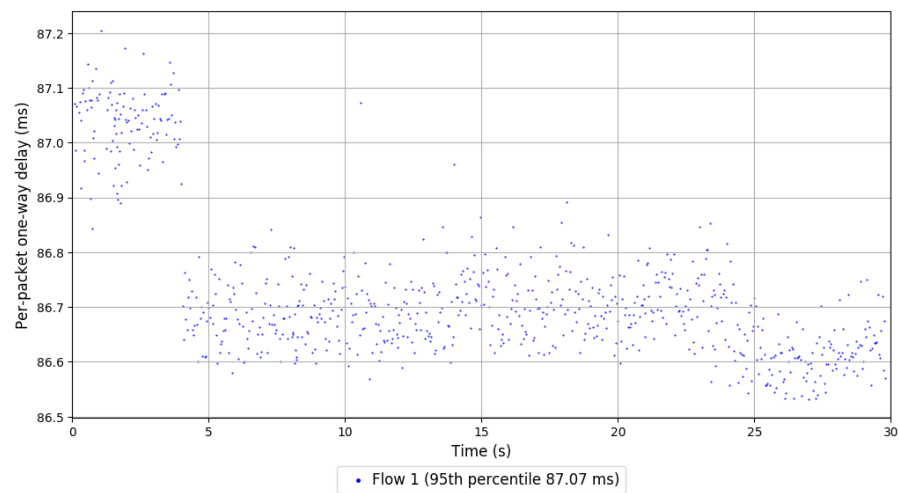
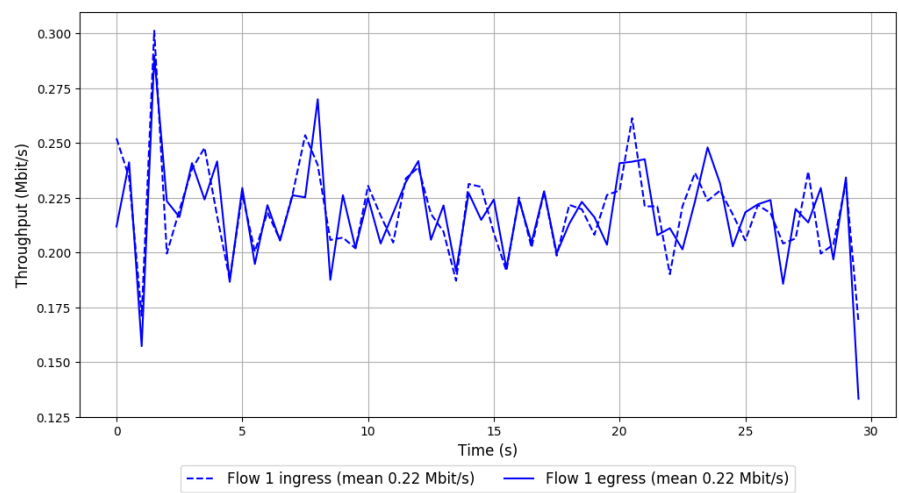
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.066 ms

Loss rate: 0.52%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-09-21 10:48:36

End at: 2017-09-21 10:49:06

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.191 ms

Loss rate: 0.64%

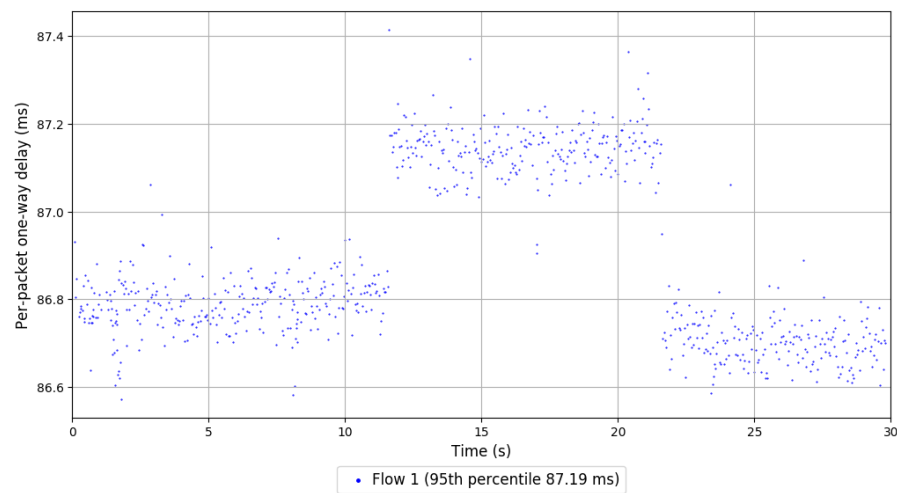
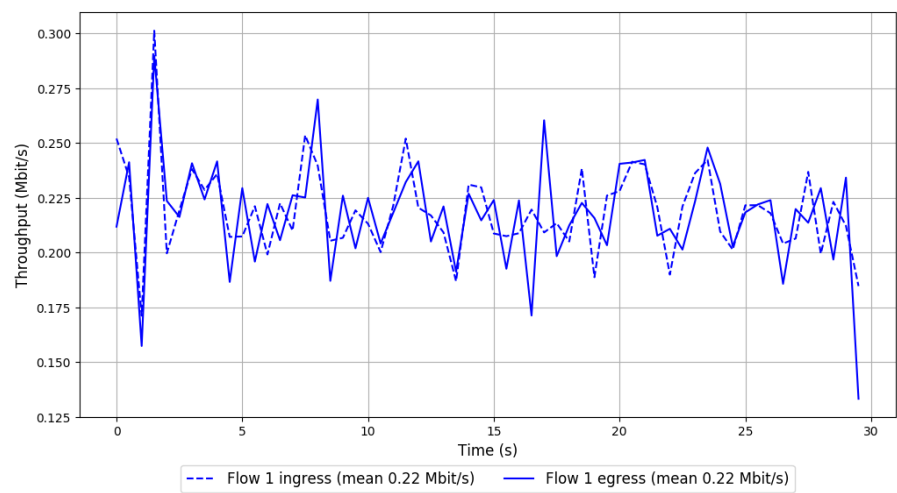
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.191 ms

Loss rate: 0.64%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-09-21 10:59:34

End at: 2017-09-21 11:00:04

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.327 ms

Loss rate: 0.52%

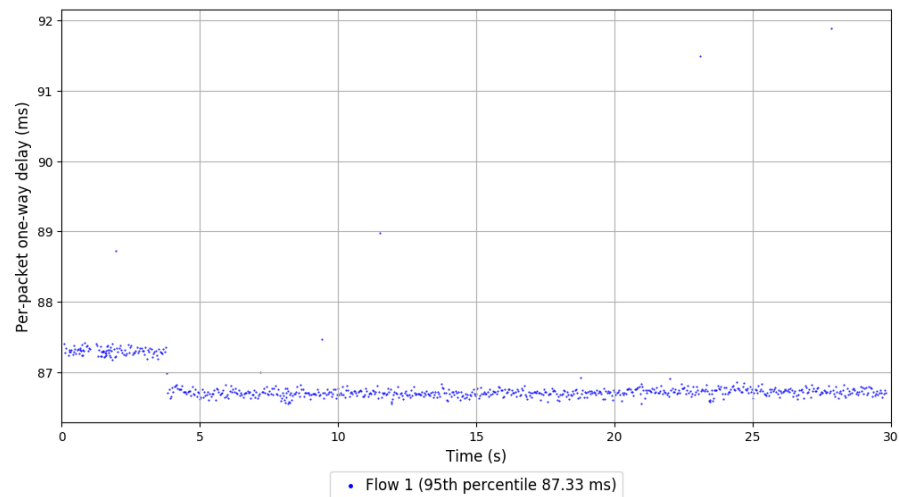
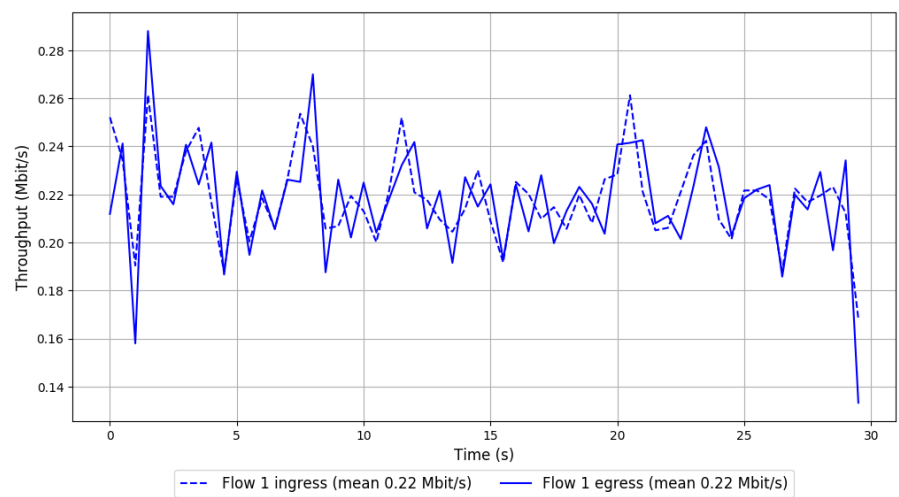
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.327 ms

Loss rate: 0.52%

Run 10: Report of SReAM — Data Link

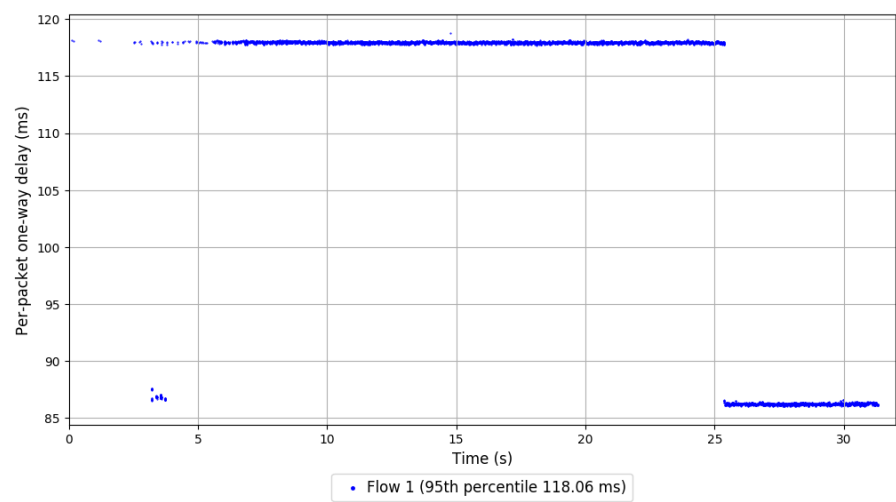
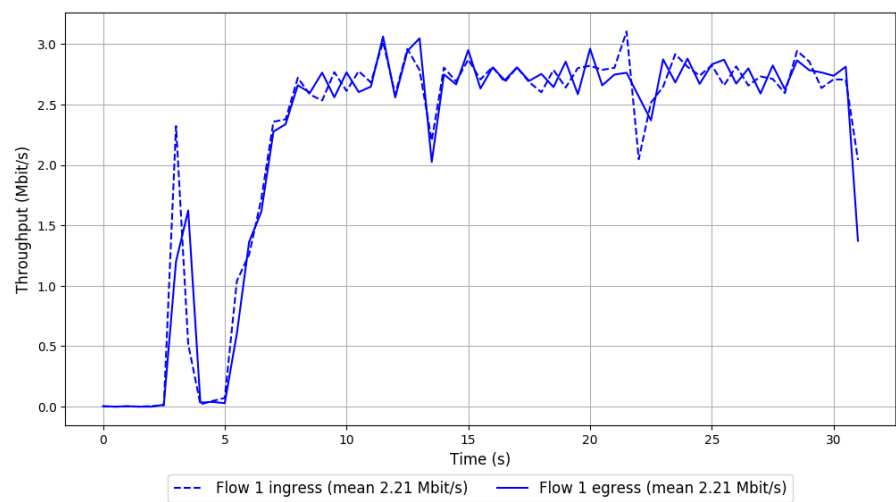


```
Run 1: Statistics of WebRTC media

Start at: 2017-09-21 09:28:39
End at: 2017-09-21 09:29:09

# Below is generated by plot.py at 2017-09-21 13:25:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 118.062 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 118.062 ms
Loss rate: 0.72%
```


Run 1: Report of WebRTC media — Data Link

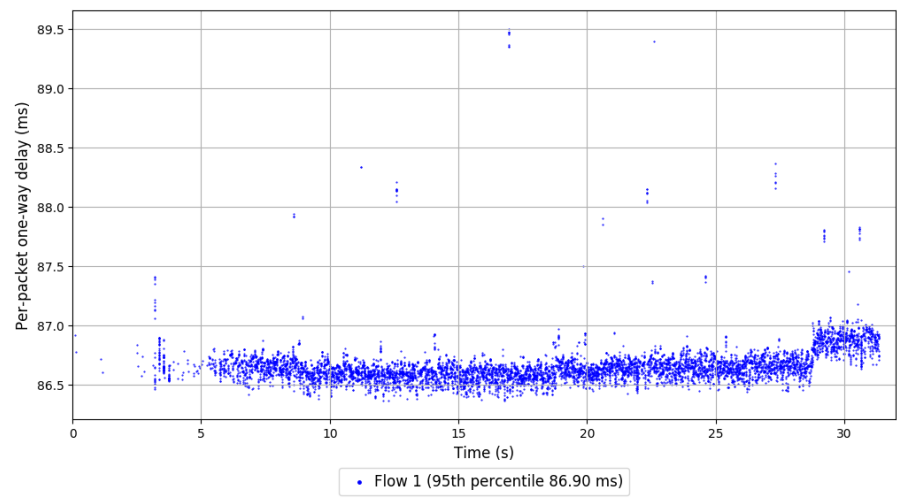
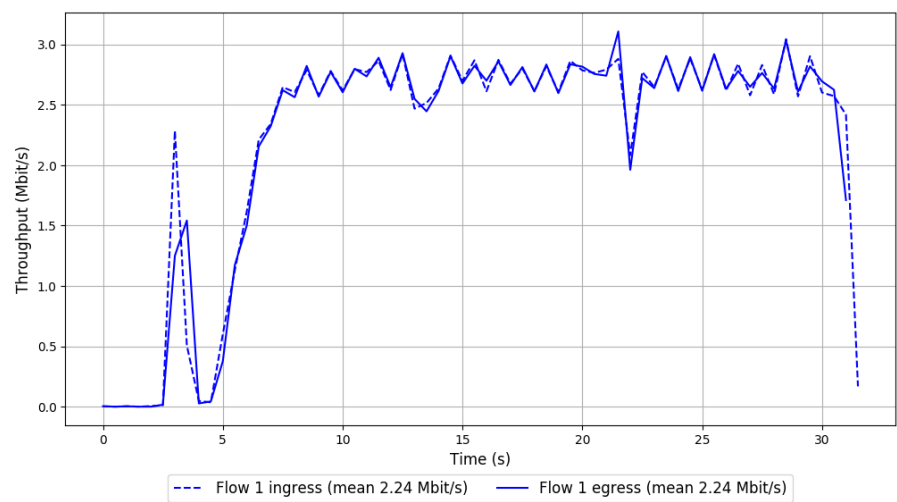


```
Run 2: Statistics of WebRTC media

Start at: 2017-09-21 09:40:06
End at: 2017-09-21 09:40:36

# Below is generated by plot.py at 2017-09-21 13:25:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 86.898 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 86.898 ms
Loss rate: 0.87%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-09-21 09:50:45

End at: 2017-09-21 09:51:15

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.47 Mbit/s

95th percentile per-packet one-way delay: 86.756 ms

Loss rate: 0.74%

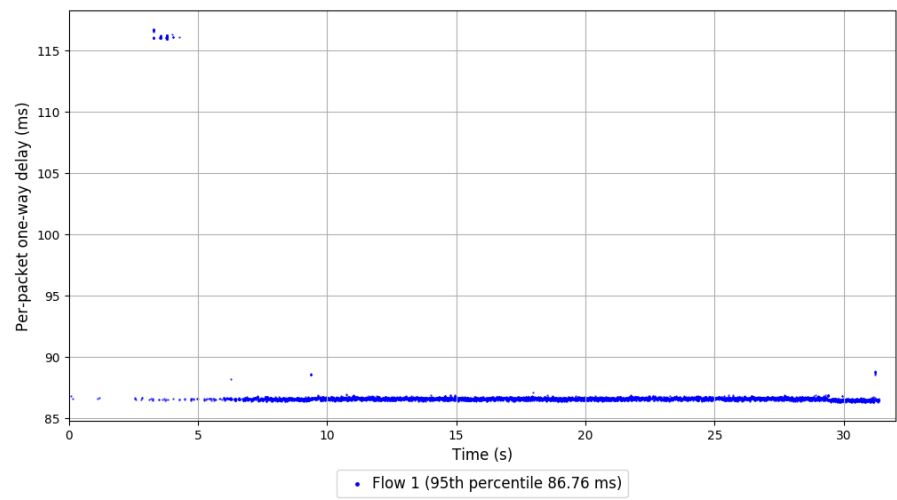
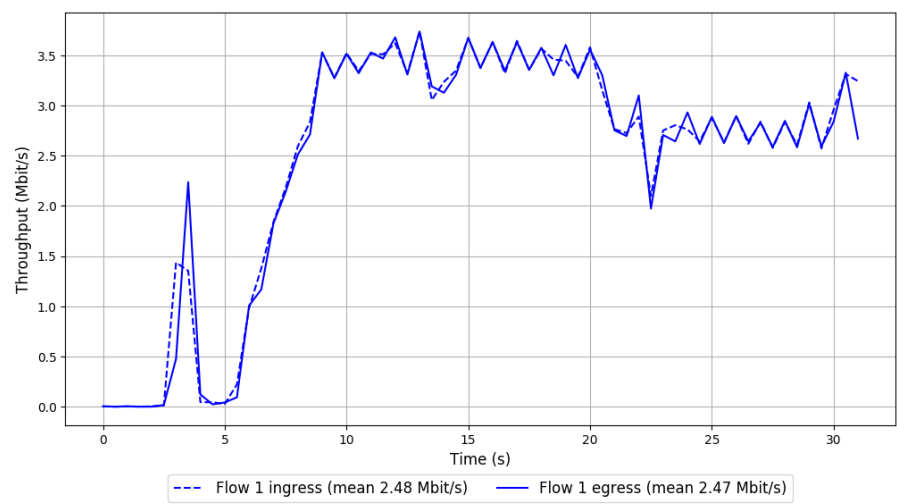
-- Flow 1:

Average throughput: 2.47 Mbit/s

95th percentile per-packet one-way delay: 86.756 ms

Loss rate: 0.74%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-09-21 10:01:30

End at: 2017-09-21 10:02:00

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 116.098 ms

Loss rate: 0.85%

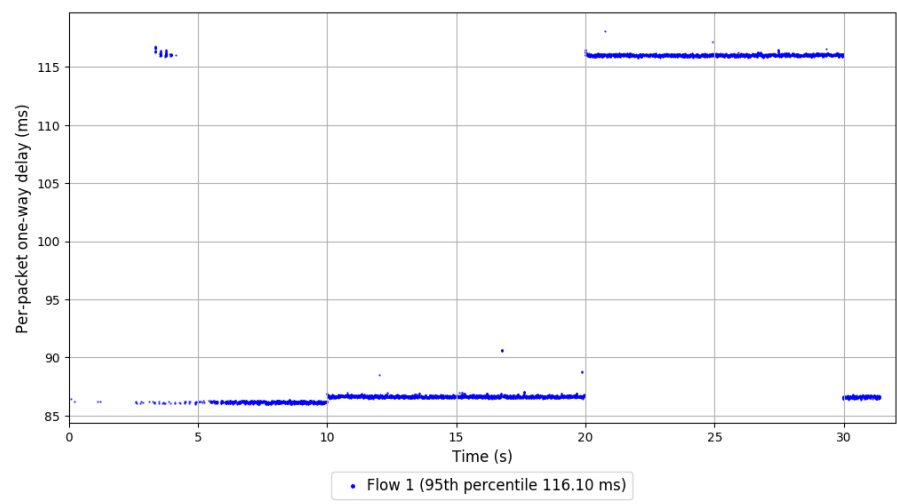
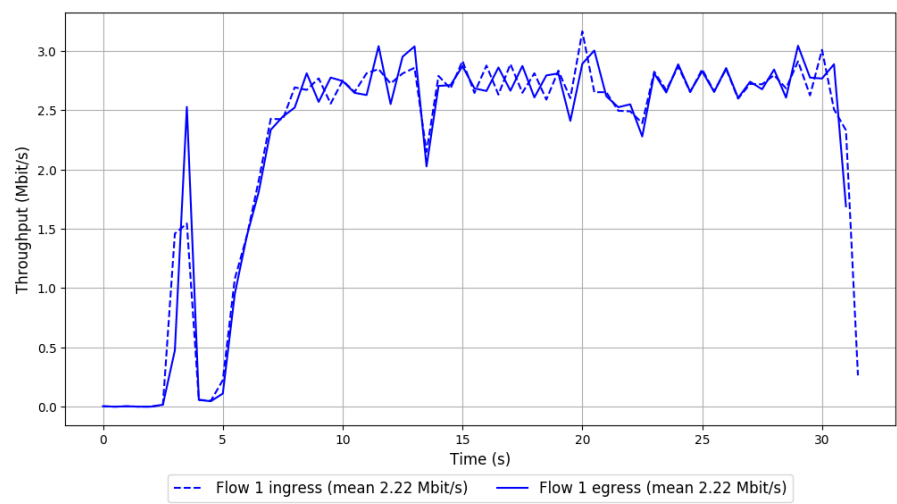
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 116.098 ms

Loss rate: 0.85%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-09-21 10:13:02

End at: 2017-09-21 10:13:32

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 117.788 ms

Loss rate: 0.97%

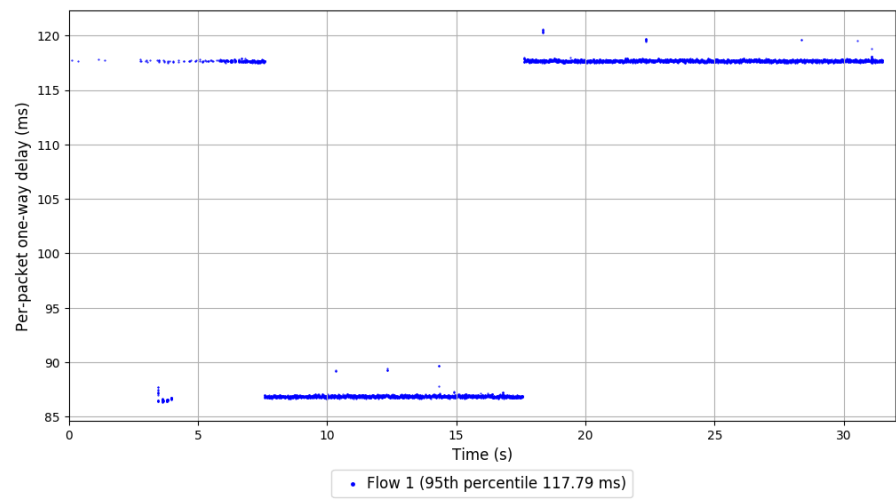
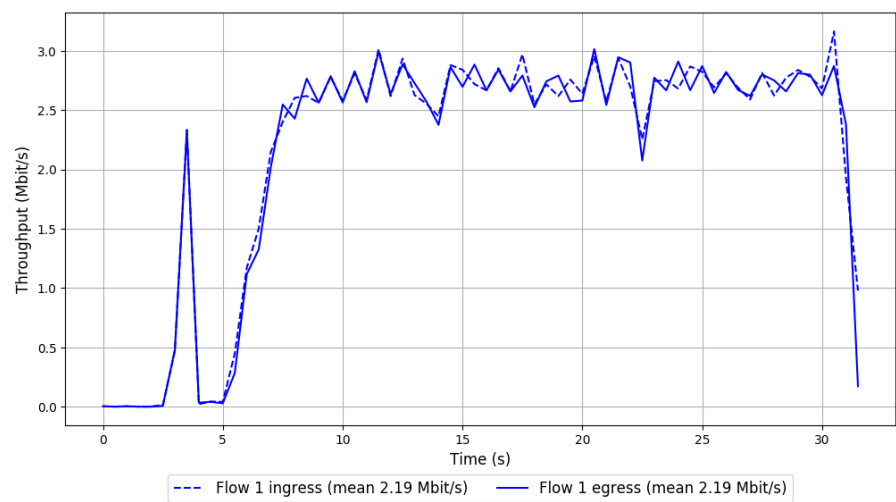
-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 117.788 ms

Loss rate: 0.97%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-09-21 10:23:52

End at: 2017-09-21 10:24:22

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 86.706 ms

Loss rate: 0.59%

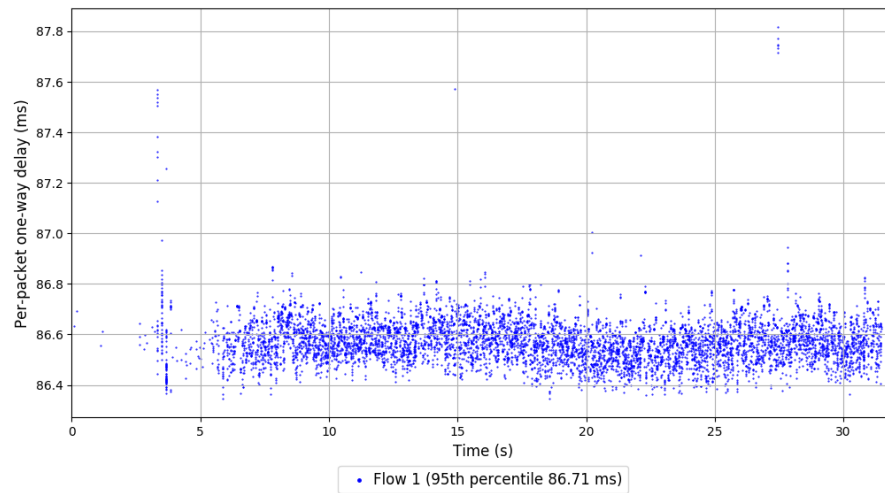
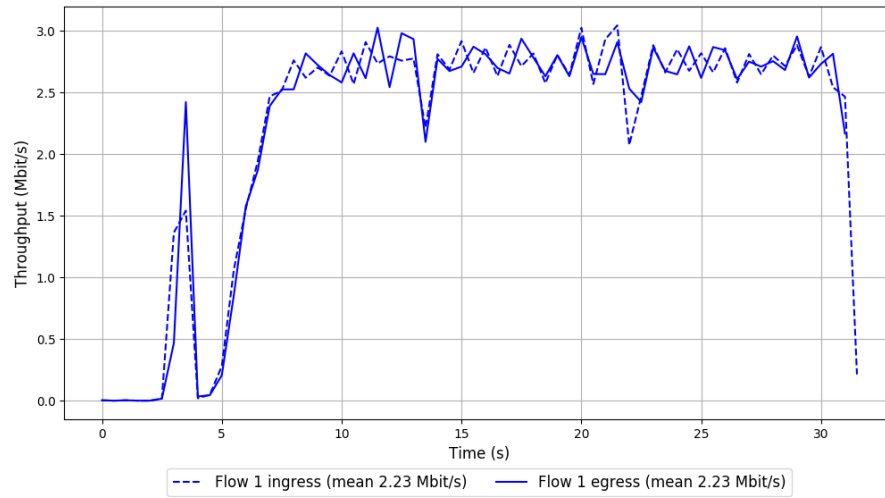
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 86.706 ms

Loss rate: 0.59%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-09-21 10:34:50

End at: 2017-09-21 10:35:20

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 86.691 ms

Loss rate: 0.62%

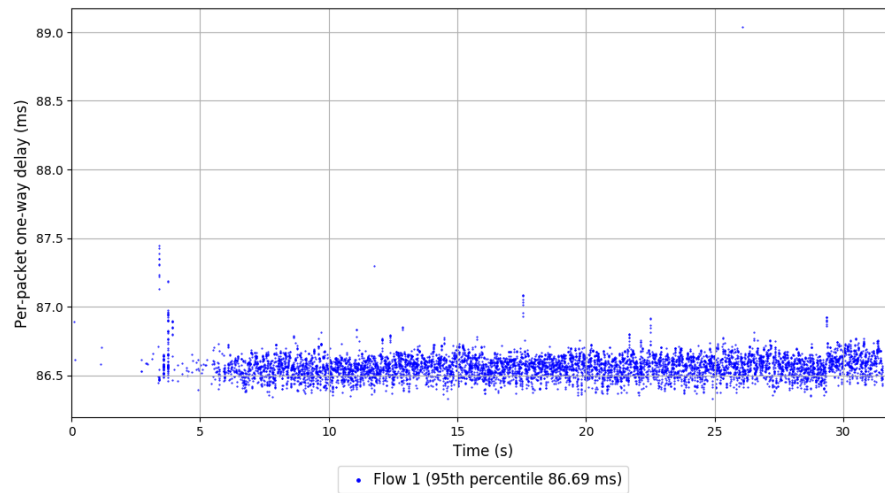
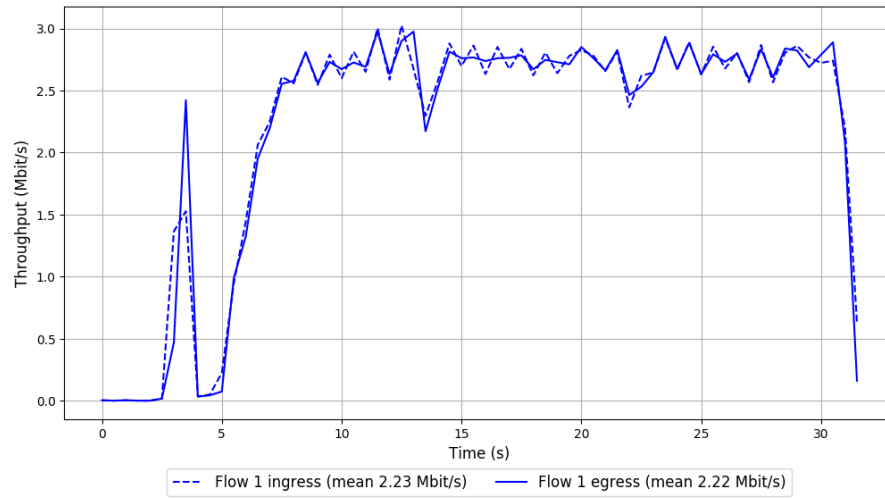
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 86.691 ms

Loss rate: 0.62%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-09-21 10:45:40

End at: 2017-09-21 10:46:10

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 86.793 ms

Loss rate: 0.62%

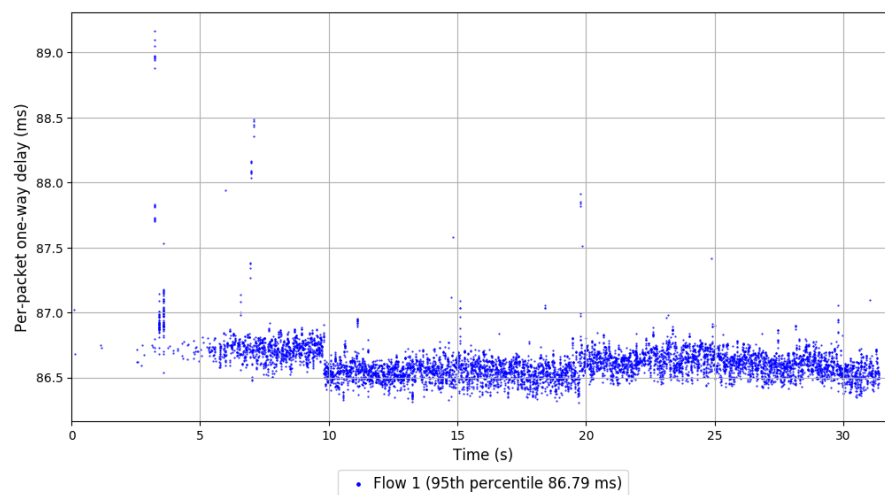
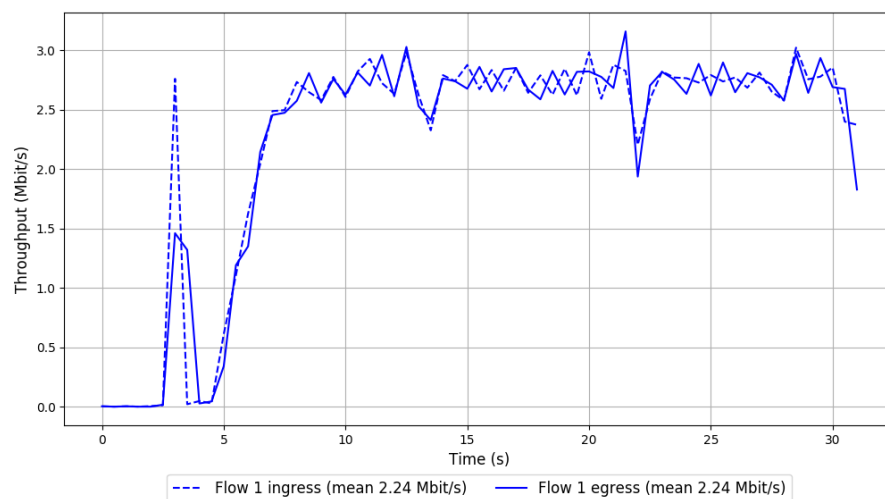
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 86.793 ms

Loss rate: 0.62%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-09-21 10:56:32

End at: 2017-09-21 10:57:02

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 118.197 ms

Loss rate: 0.72%

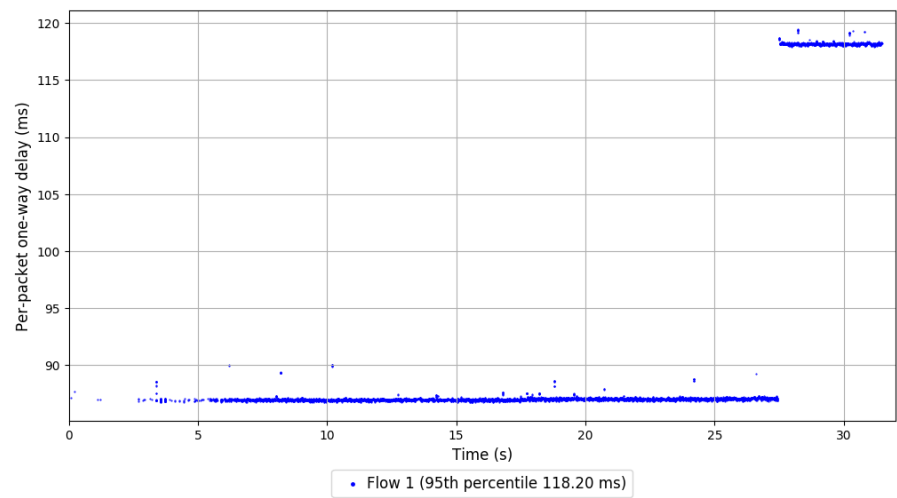
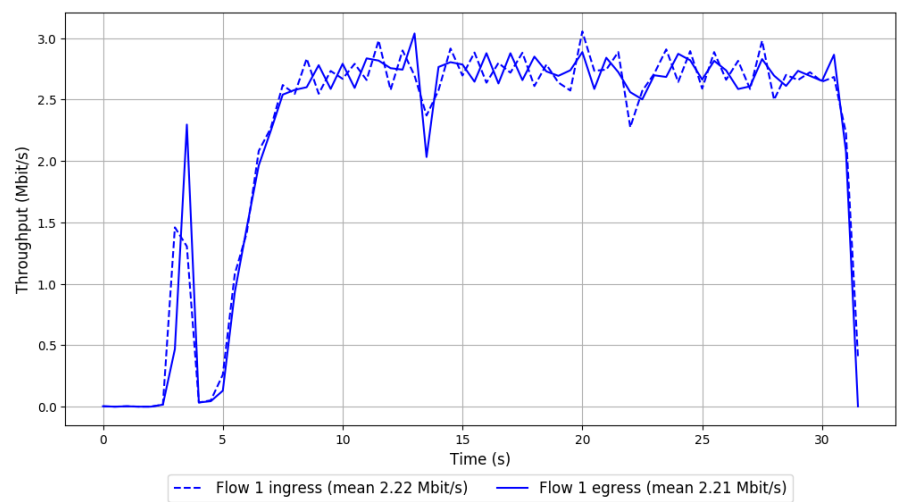
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 118.197 ms

Loss rate: 0.72%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-09-21 11:07:32

End at: 2017-09-21 11:08:02

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 87.101 ms

Loss rate: 0.72%

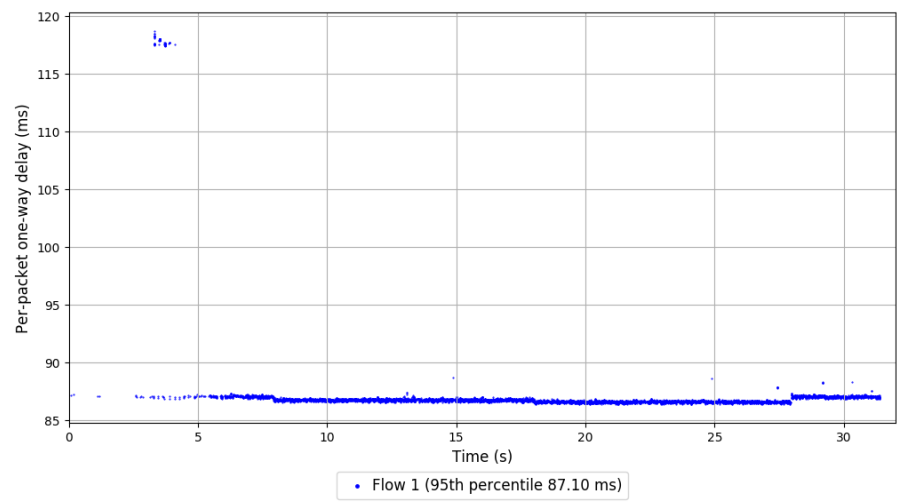
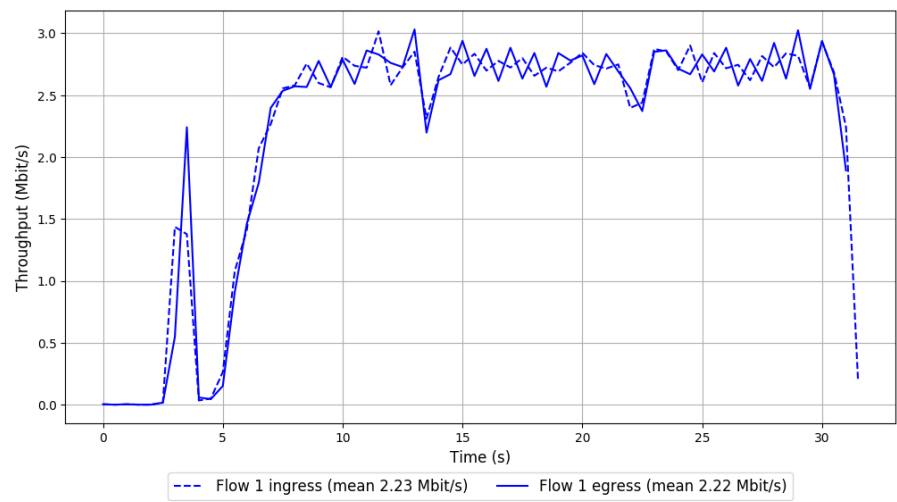
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 87.101 ms

Loss rate: 0.72%

Run 10: Report of WebRTC media — Data Link

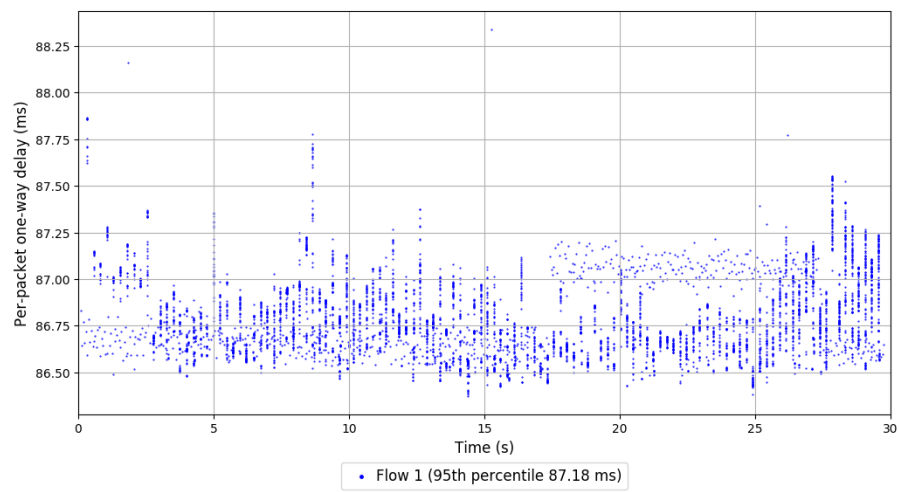
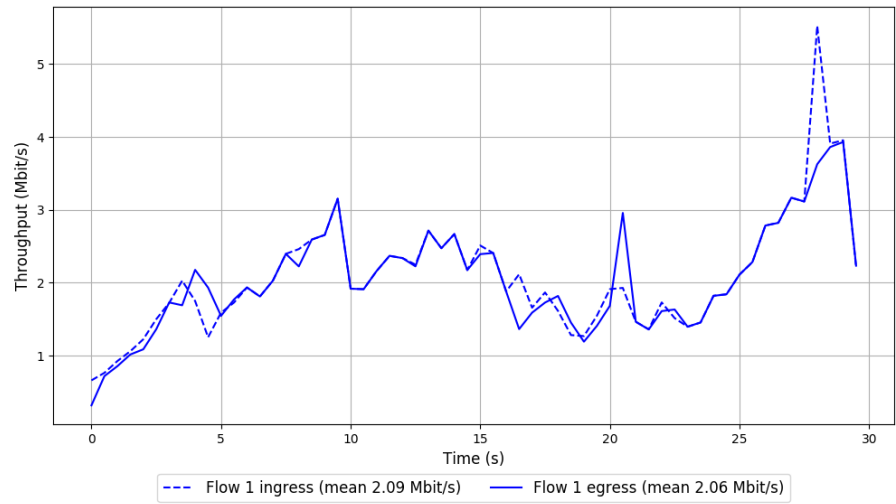


```
Run 1: Statistics of Sprout

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

# Below is generated by plot.py at 2017-09-21 13:25:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 87.179 ms
Loss rate: 1.87%
-- Flow 1:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 87.179 ms
Loss rate: 1.87%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-09-21 09:32:31

End at: 2017-09-21 09:33:02

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 87.292 ms

Loss rate: 0.85%

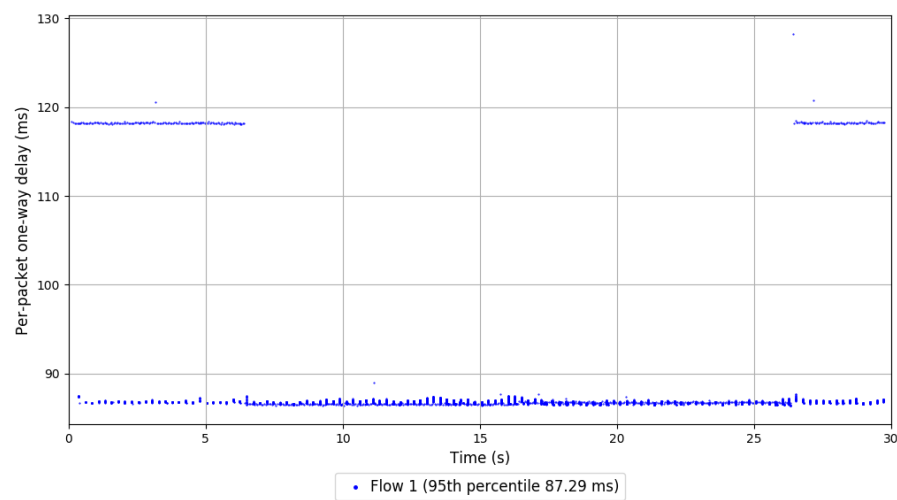
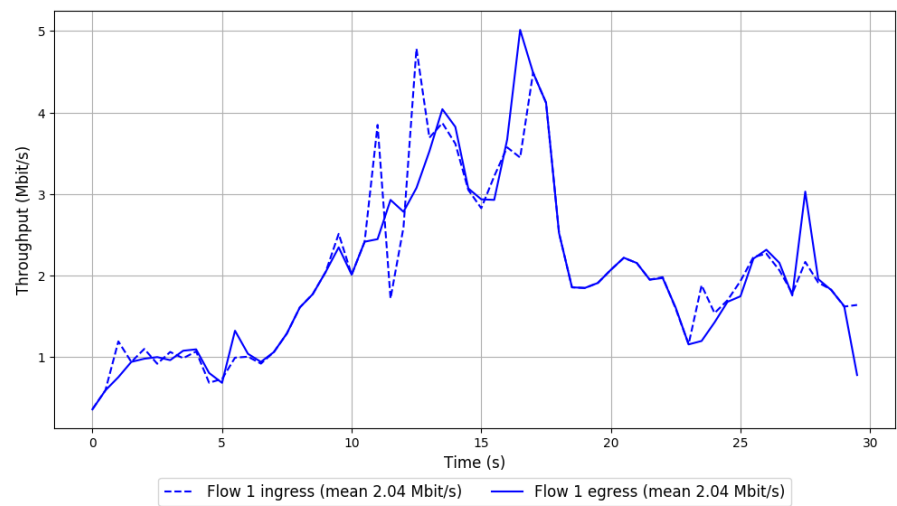
-- Flow 1:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 87.292 ms

Loss rate: 0.85%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-09-21 09:43:50

End at: 2017-09-21 09:44:20

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.57 Mbit/s

95th percentile per-packet one-way delay: 116.270 ms

Loss rate: 2.16%

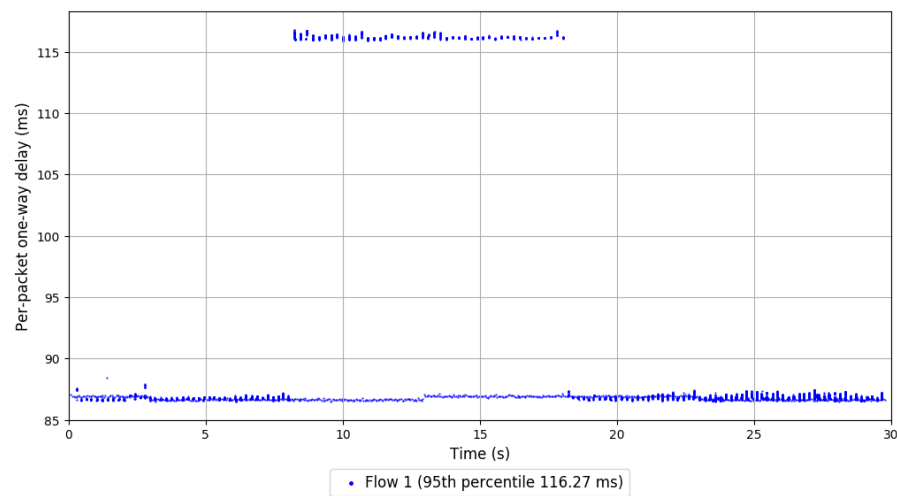
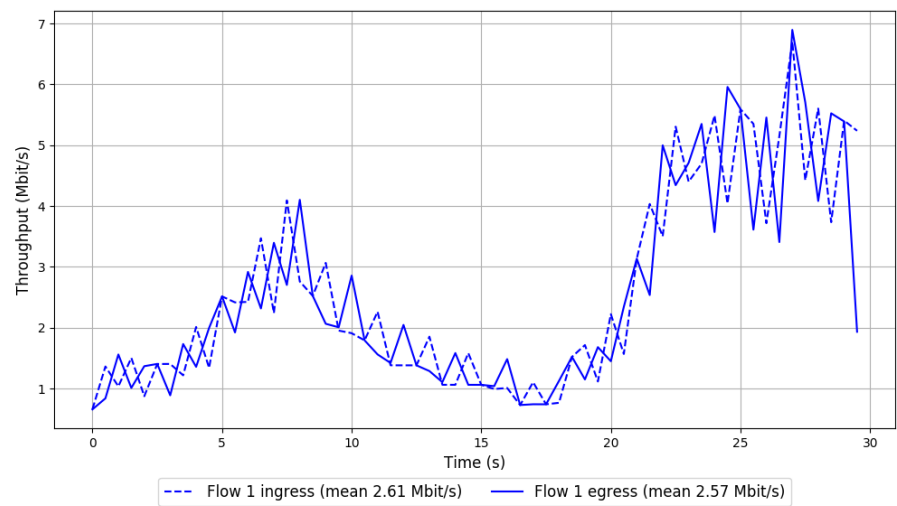
-- Flow 1:

Average throughput: 2.57 Mbit/s

95th percentile per-packet one-way delay: 116.270 ms

Loss rate: 2.16%

Run 3: Report of Sprout — Data Link

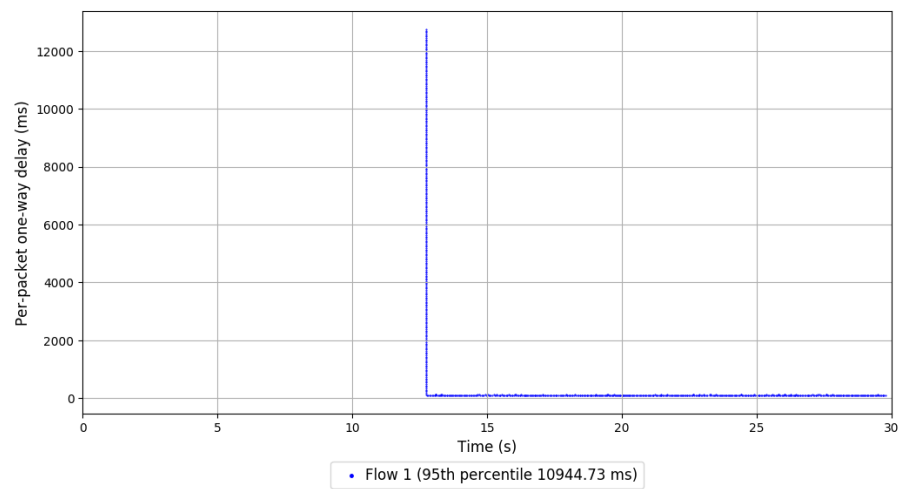
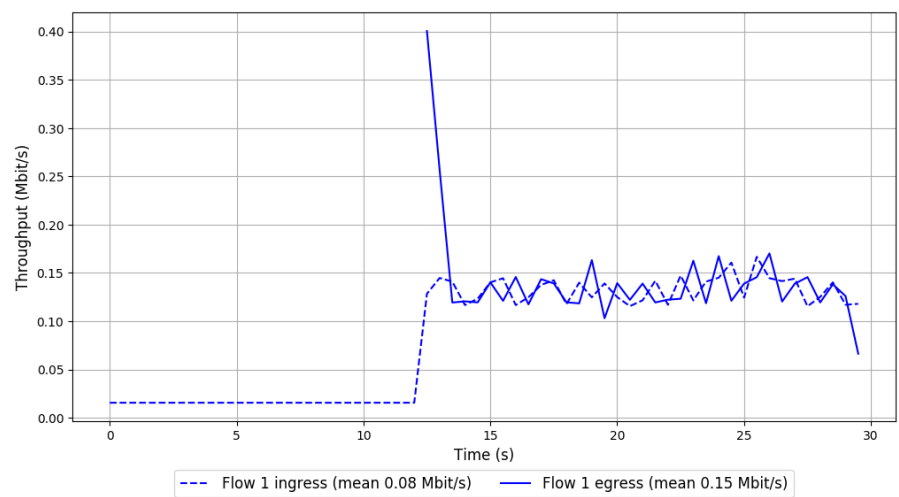


Run 4: Statistics of Sprout

Start at: 2017-09-21 09:54:15

End at: 2017-09-21 09:54:45

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-09-21 10:05:24

End at: 2017-09-21 10:05:54

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.36 Mbit/s

95th percentile per-packet one-way delay: 87.597 ms

Loss rate: 1.24%

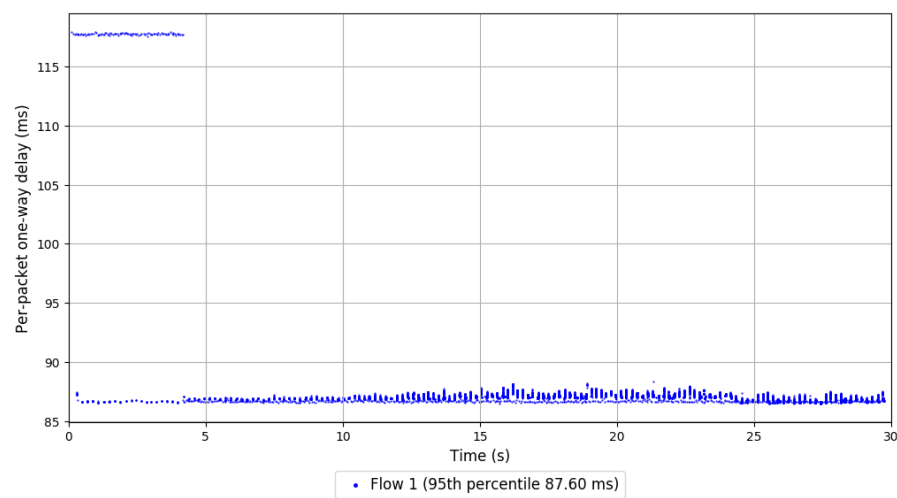
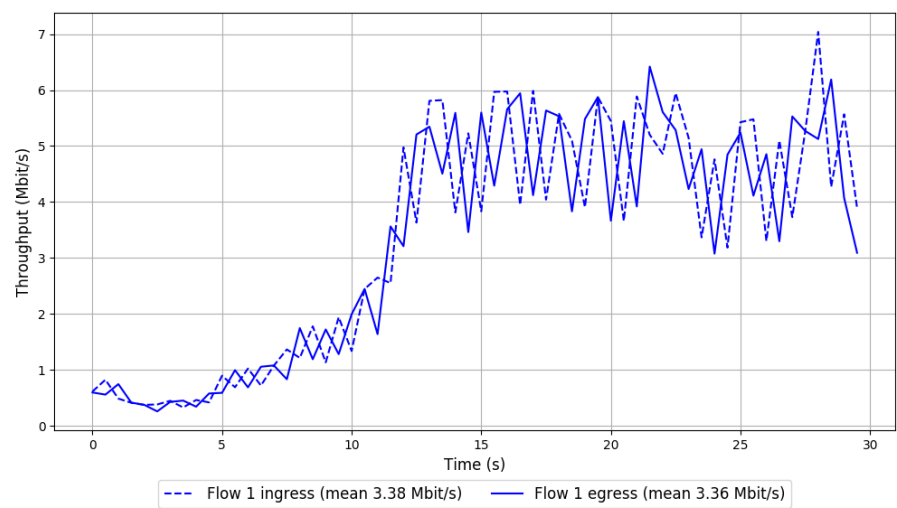
-- Flow 1:

Average throughput: 3.36 Mbit/s

95th percentile per-packet one-way delay: 87.597 ms

Loss rate: 1.24%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-09-21 10:16:30

End at: 2017-09-21 10:17:00

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.84 Mbit/s

95th percentile per-packet one-way delay: 87.147 ms

Loss rate: 0.63%

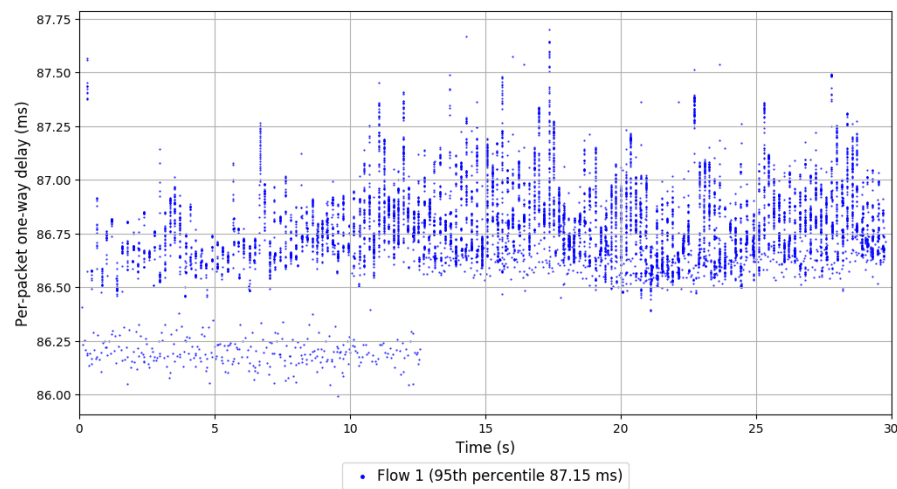
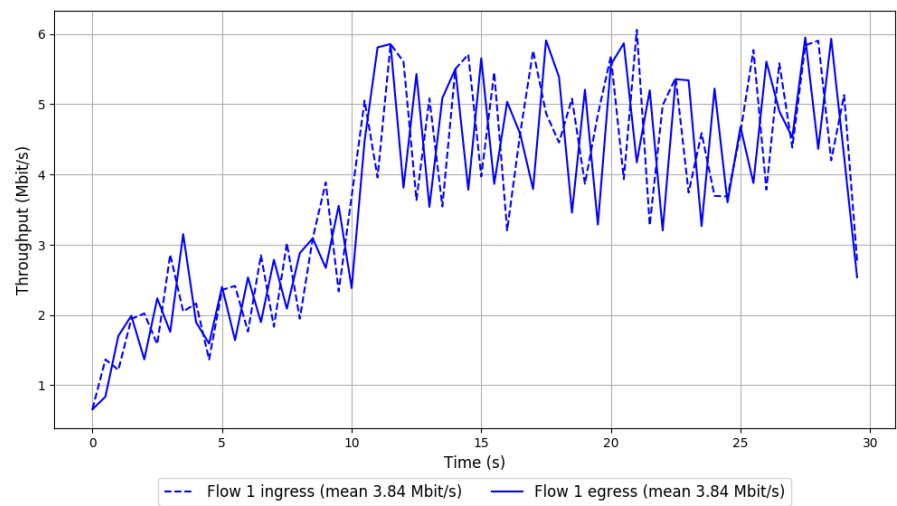
-- Flow 1:

Average throughput: 3.84 Mbit/s

95th percentile per-packet one-way delay: 87.147 ms

Loss rate: 0.63%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-09-21 10:27:33

End at: 2017-09-21 10:28:03

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 87.278 ms

Loss rate: 0.84%

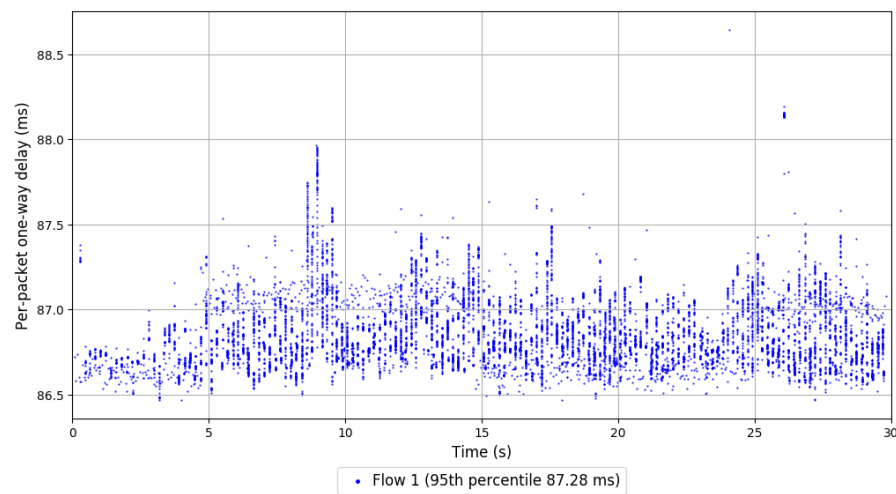
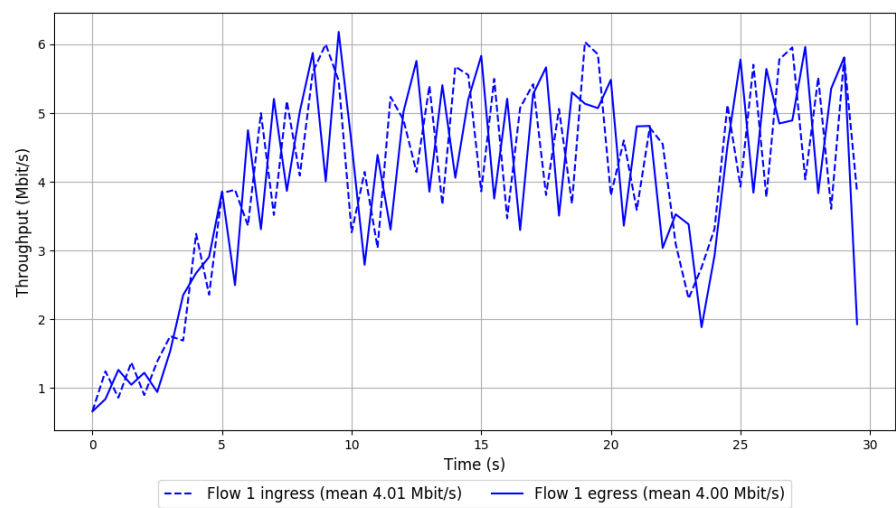
-- Flow 1:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 87.278 ms

Loss rate: 0.84%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-09-21 10:38:33

End at: 2017-09-21 10:39:03

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 117.842 ms

Loss rate: 0.41%

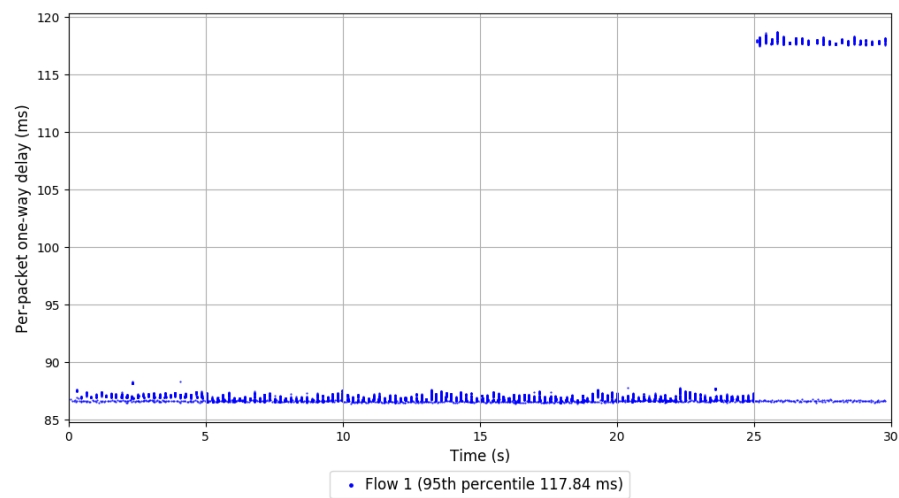
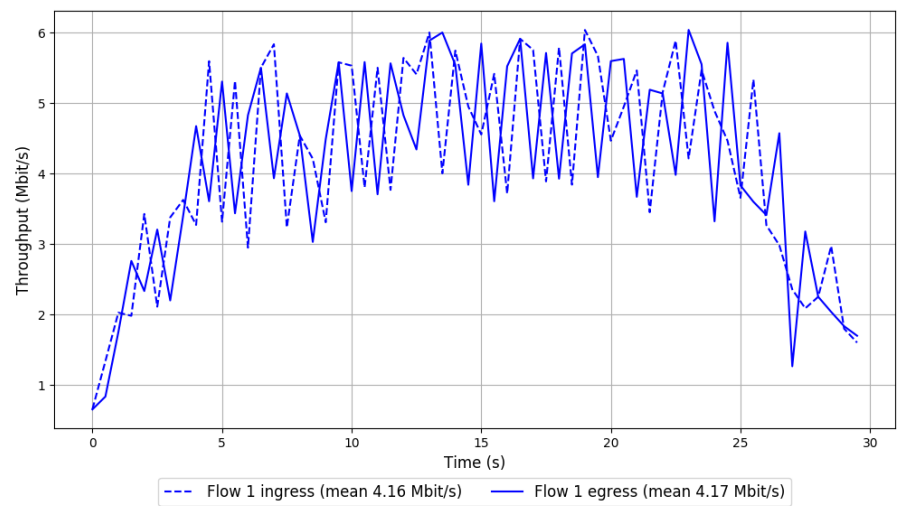
-- Flow 1:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 117.842 ms

Loss rate: 0.41%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-09-21 10:49:16

End at: 2017-09-21 10:49:46

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 87.257 ms

Loss rate: 0.90%

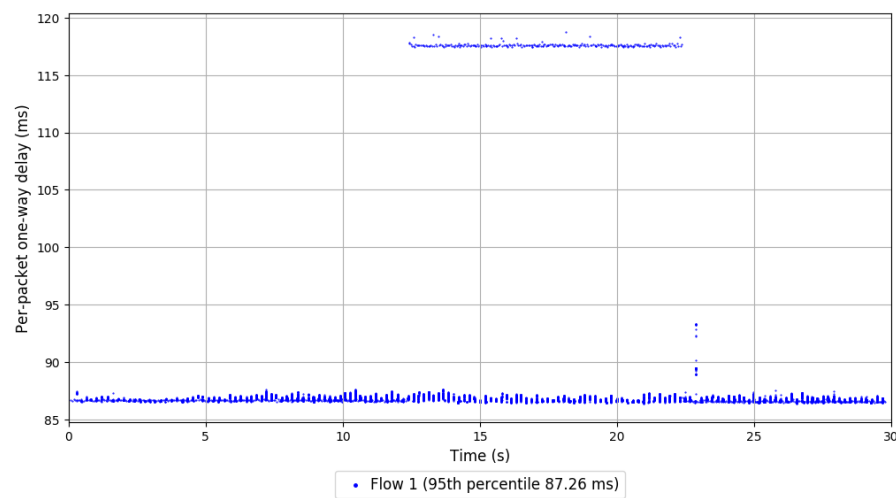
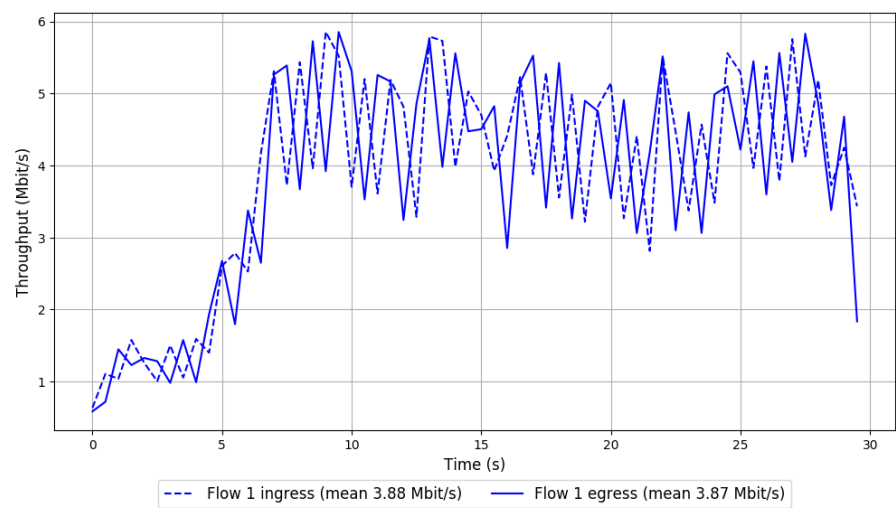
-- Flow 1:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 87.257 ms

Loss rate: 0.90%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-09-21 11:00:13

End at: 2017-09-21 11:00:43

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 87.356 ms

Loss rate: 0.57%

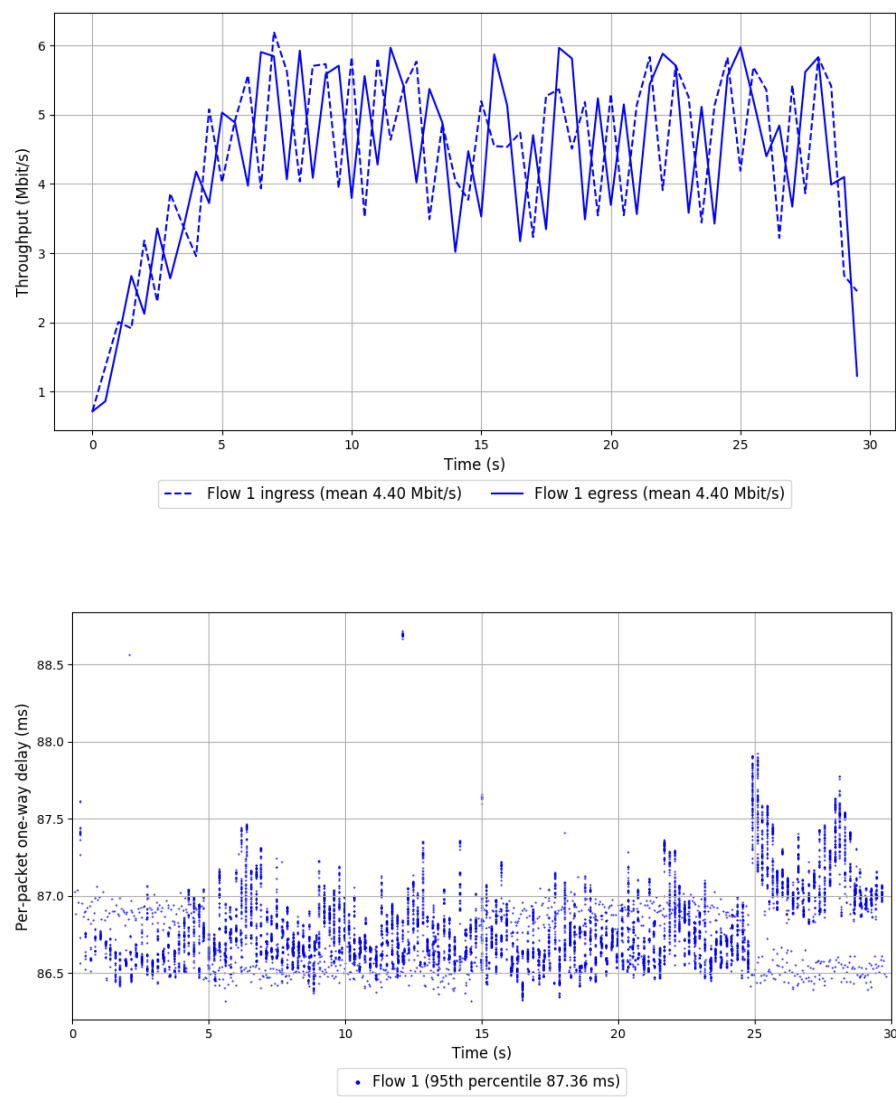
-- Flow 1:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 87.356 ms

Loss rate: 0.57%

Run 10: Report of Sprout — Data Link

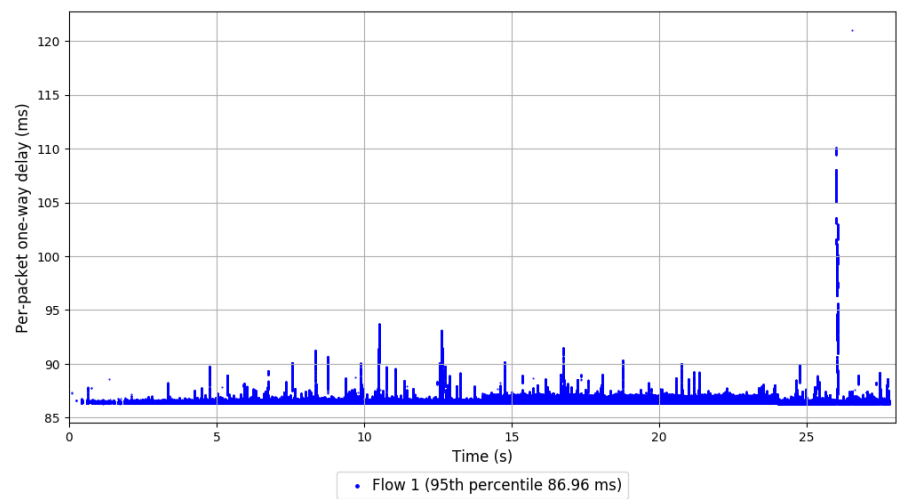
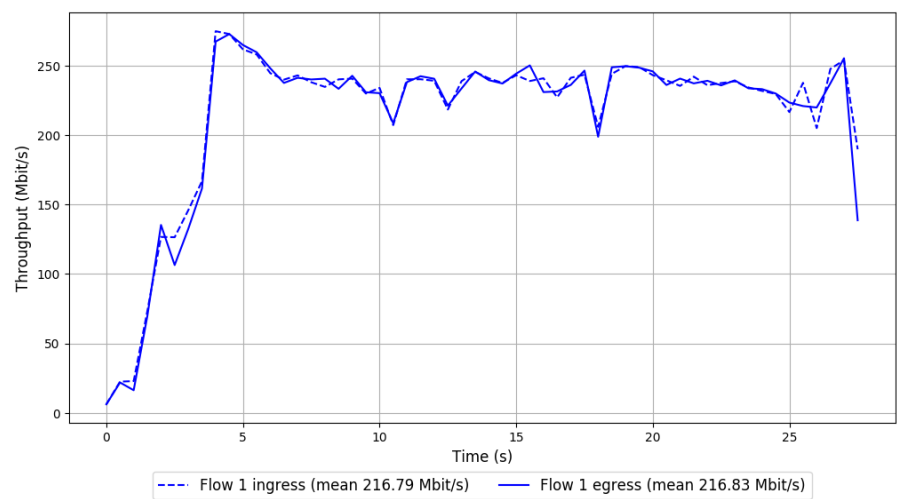


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-09-21 09:30:02
End at: 2017-09-21 09:30:32

# Below is generated by plot.py at 2017-09-21 13:25:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.83 Mbit/s
95th percentile per-packet one-way delay: 86.963 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 216.83 Mbit/s
95th percentile per-packet one-way delay: 86.963 ms
Loss rate: 0.79%
```


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

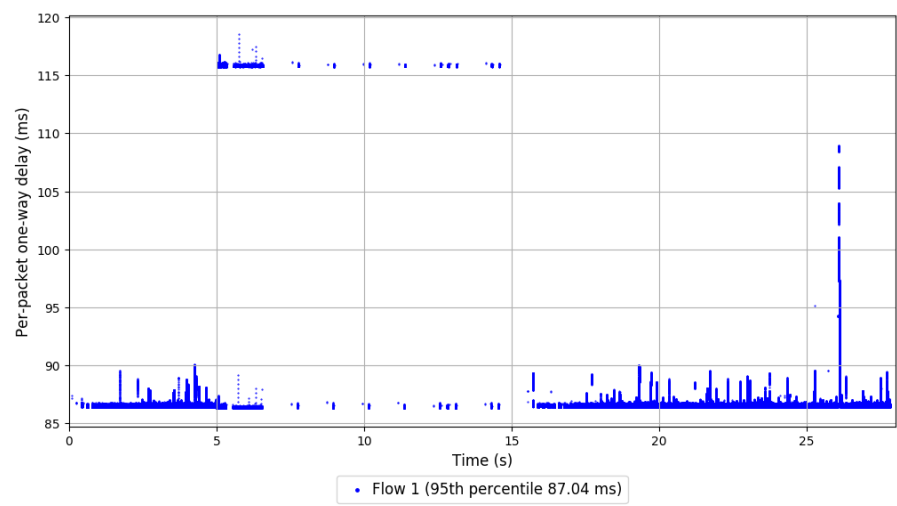
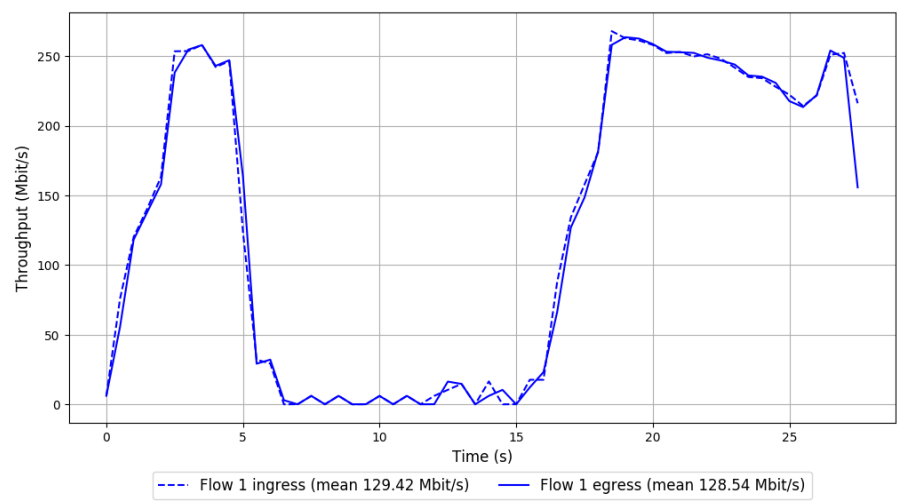


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-09-21 09:41:31
End at: 2017-09-21 09:42:01

# Below is generated by plot.py at 2017-09-21 13:25:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 128.54 Mbit/s
95th percentile per-packet one-way delay: 87.037 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 128.54 Mbit/s
95th percentile per-packet one-way delay: 87.037 ms
Loss rate: 1.43%
```

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

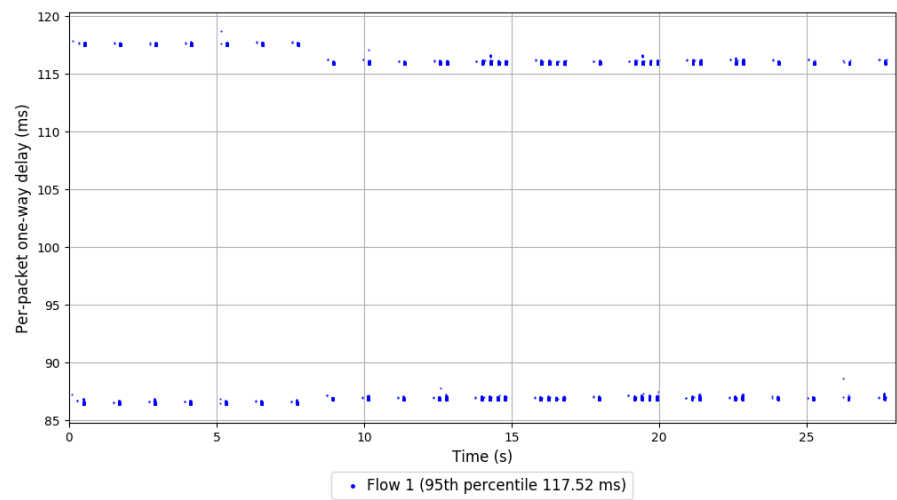
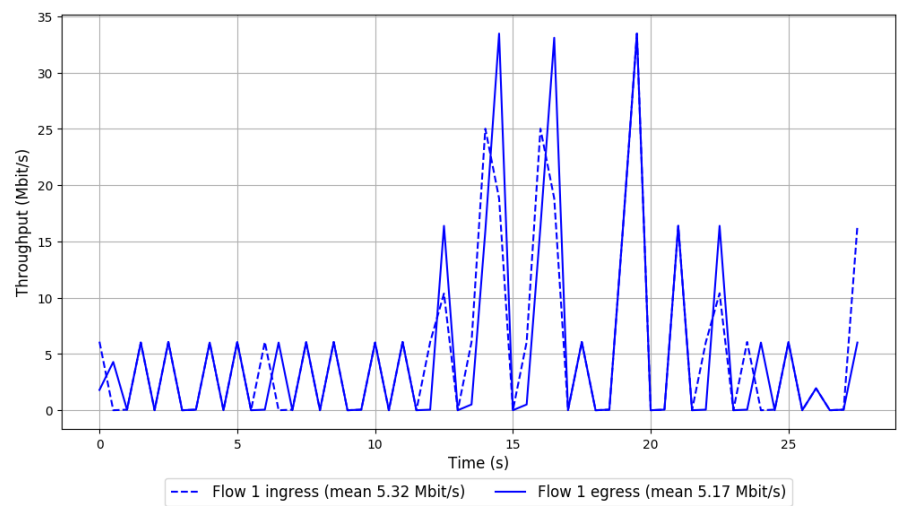


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-09-21 09:52:07
End at: 2017-09-21 09:52:37

# Below is generated by plot.py at 2017-09-21 13:25:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.17 Mbit/s
95th percentile per-packet one-way delay: 117.515 ms
Loss rate: 3.50%
-- Flow 1:
Average throughput: 5.17 Mbit/s
95th percentile per-packet one-way delay: 117.515 ms
Loss rate: 3.50%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-09-21 10:02:54

End at: 2017-09-21 10:03:24

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.11 Mbit/s

95th percentile per-packet one-way delay: 86.693 ms

Loss rate: 0.81%

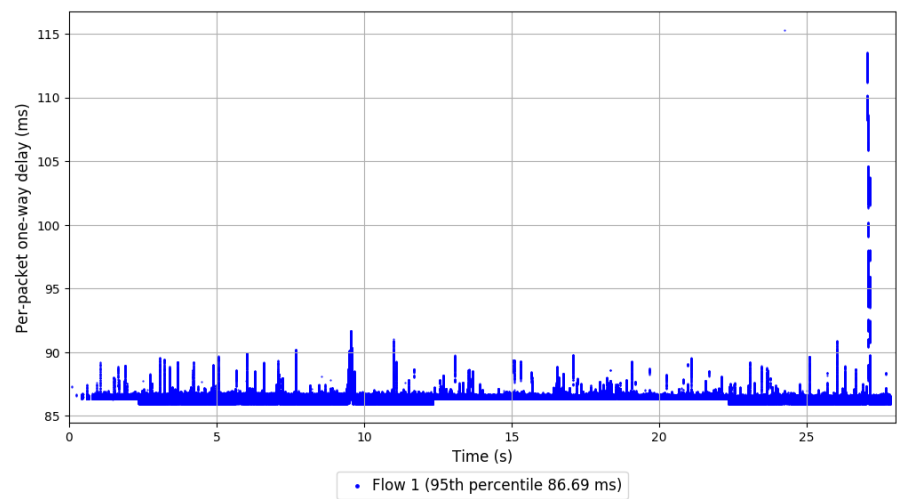
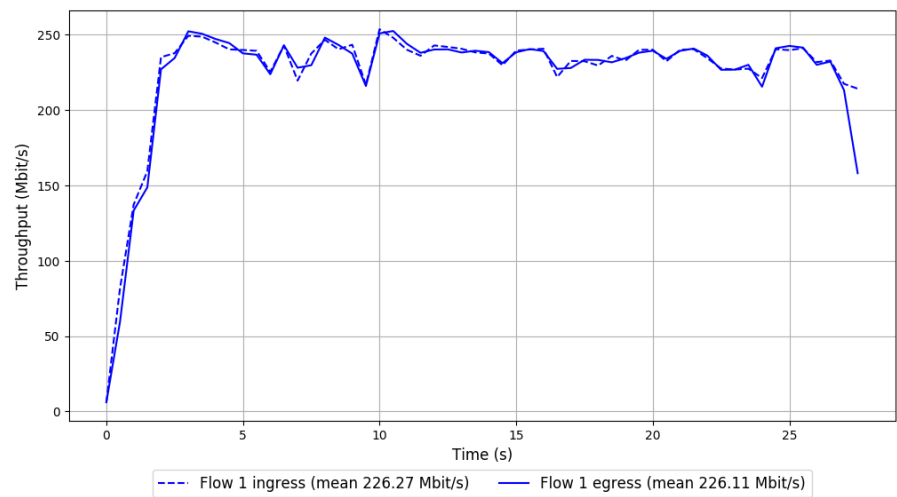
-- Flow 1:

Average throughput: 226.11 Mbit/s

95th percentile per-packet one-way delay: 86.693 ms

Loss rate: 0.81%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-09-21 10:14:27

End at: 2017-09-21 10:14:57

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.92 Mbit/s

95th percentile per-packet one-way delay: 86.951 ms

Loss rate: 0.10%

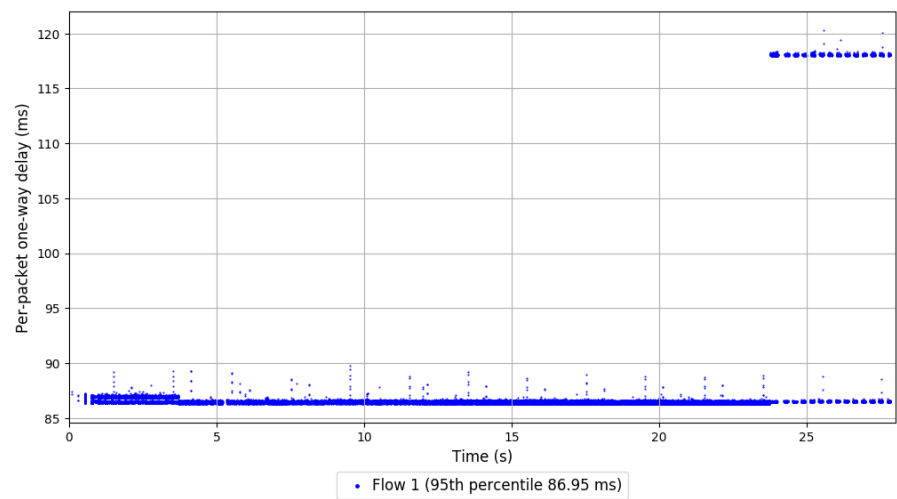
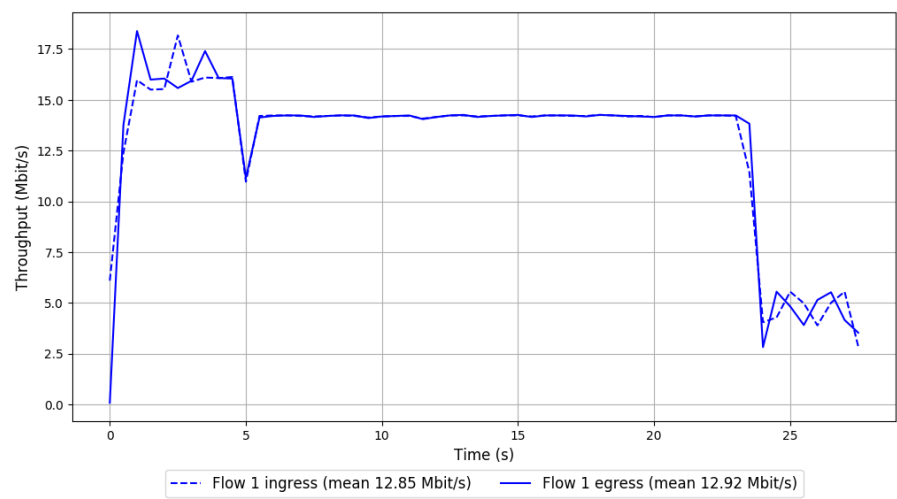
-- Flow 1:

Average throughput: 12.92 Mbit/s

95th percentile per-packet one-way delay: 86.951 ms

Loss rate: 0.10%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-09-21 10:25:14

End at: 2017-09-21 10:25:44

Below is generated by plot.py at 2017-09-21 13:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.84 Mbit/s

95th percentile per-packet one-way delay: 86.735 ms

Loss rate: 0.71%

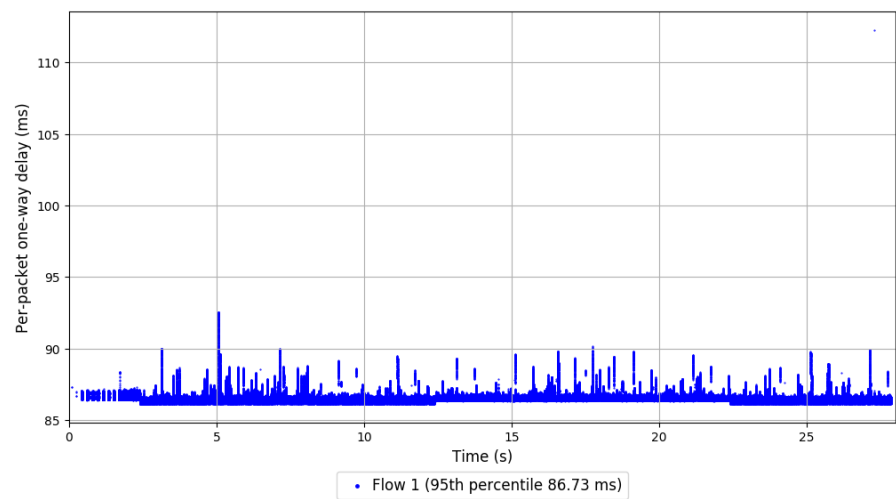
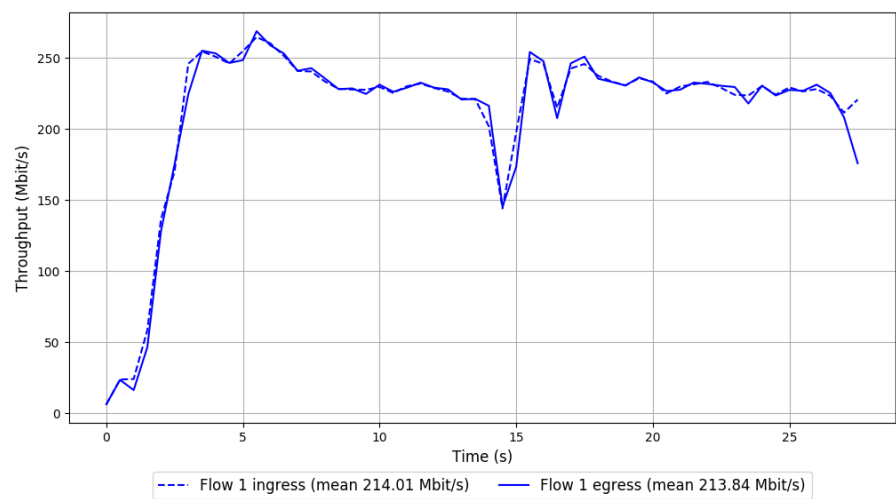
-- Flow 1:

Average throughput: 213.84 Mbit/s

95th percentile per-packet one-way delay: 86.735 ms

Loss rate: 0.71%

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

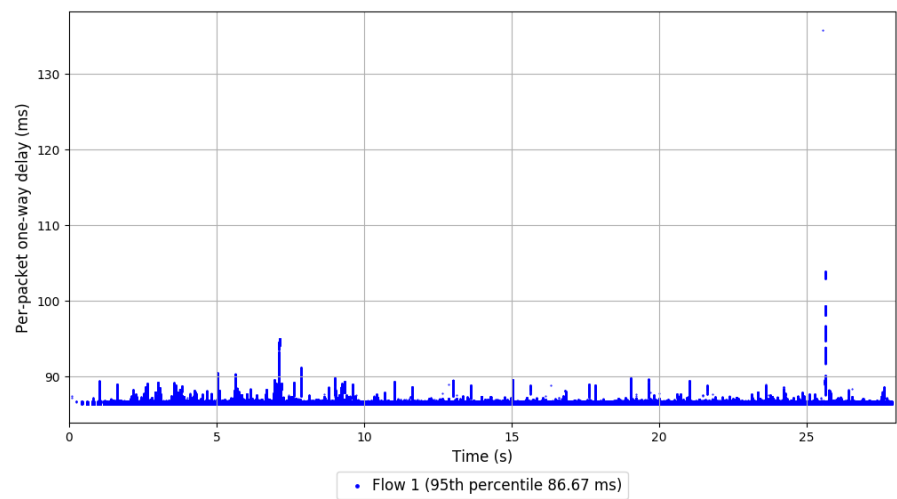
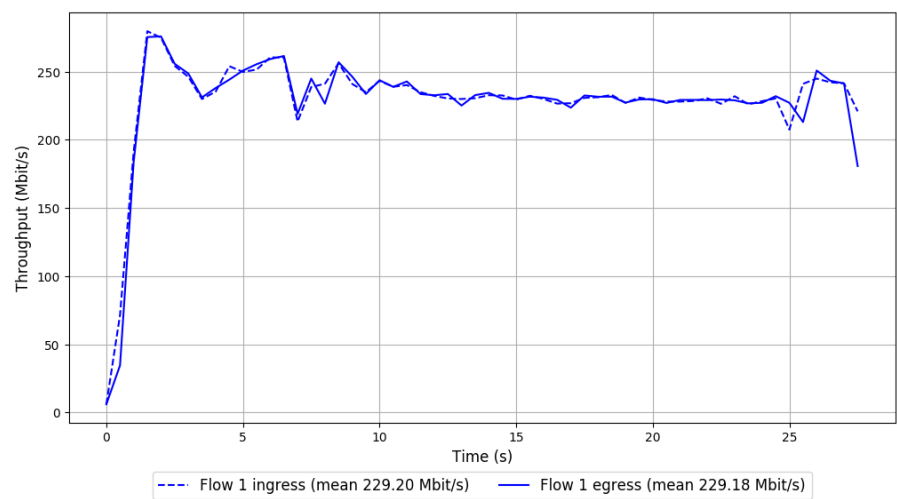


```
Run 7: Statistics of TaoVA-100x

Start at: 2017-09-21 10:36:12
End at: 2017-09-21 10:36:42

# Below is generated by plot.py at 2017-09-21 13:25:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.18 Mbit/s
95th percentile per-packet one-way delay: 86.672 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 229.18 Mbit/s
95th percentile per-packet one-way delay: 86.672 ms
Loss rate: 0.63%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-09-21 10:46:59

End at: 2017-09-21 10:47:29

Below is generated by plot.py at 2017-09-21 13:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 159.40 Mbit/s

95th percentile per-packet one-way delay: 86.950 ms

Loss rate: 0.06%

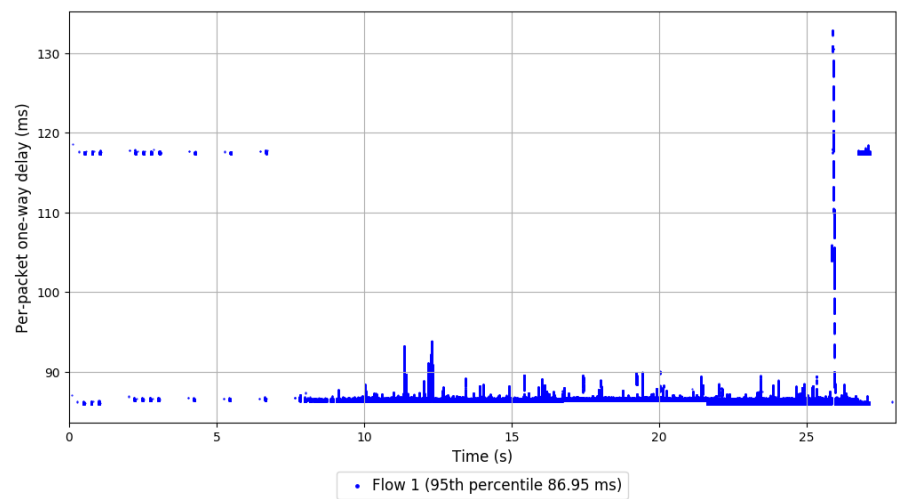
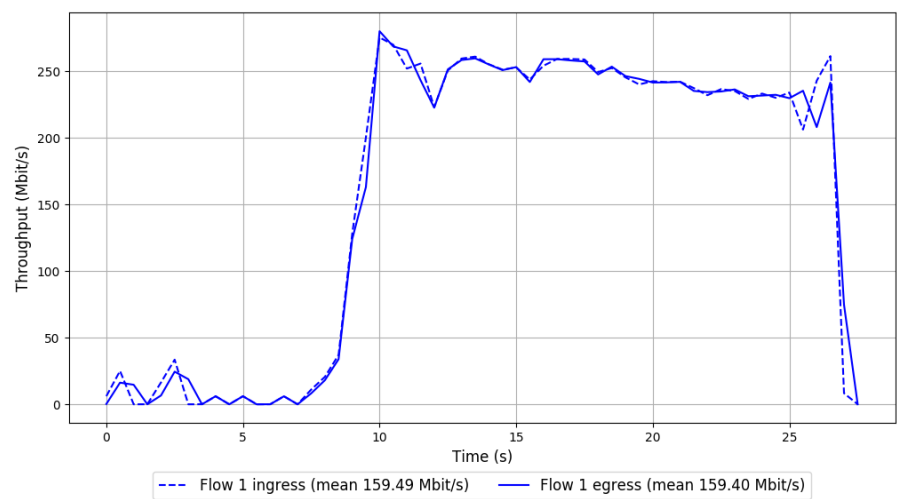
-- Flow 1:

Average throughput: 159.40 Mbit/s

95th percentile per-packet one-way delay: 86.950 ms

Loss rate: 0.06%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-09-21 10:57:53

End at: 2017-09-21 10:58:23

Below is generated by plot.py at 2017-09-21 13:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.99 Mbit/s

95th percentile per-packet one-way delay: 87.594 ms

Loss rate: 0.72%

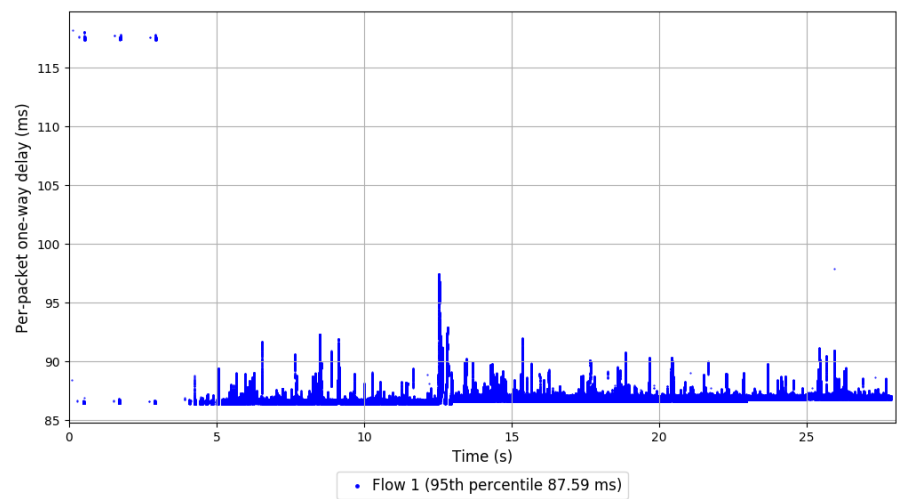
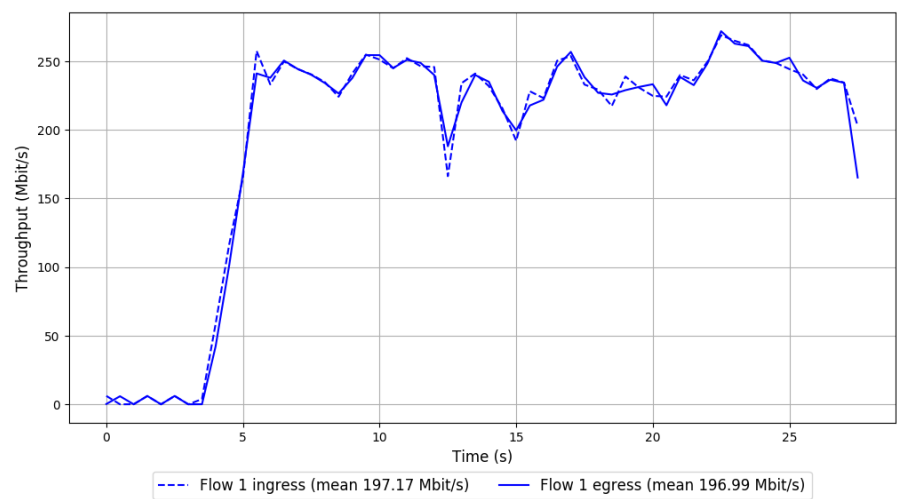
-- Flow 1:

Average throughput: 196.99 Mbit/s

95th percentile per-packet one-way delay: 87.594 ms

Loss rate: 0.72%

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

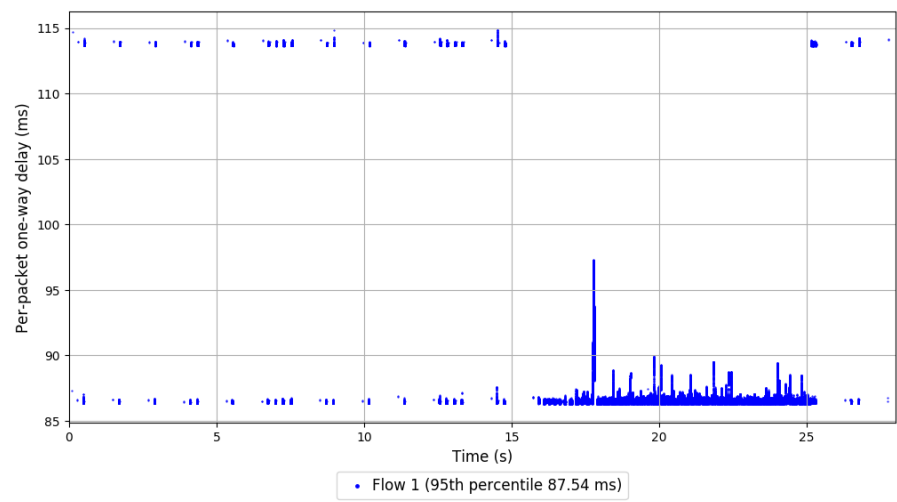
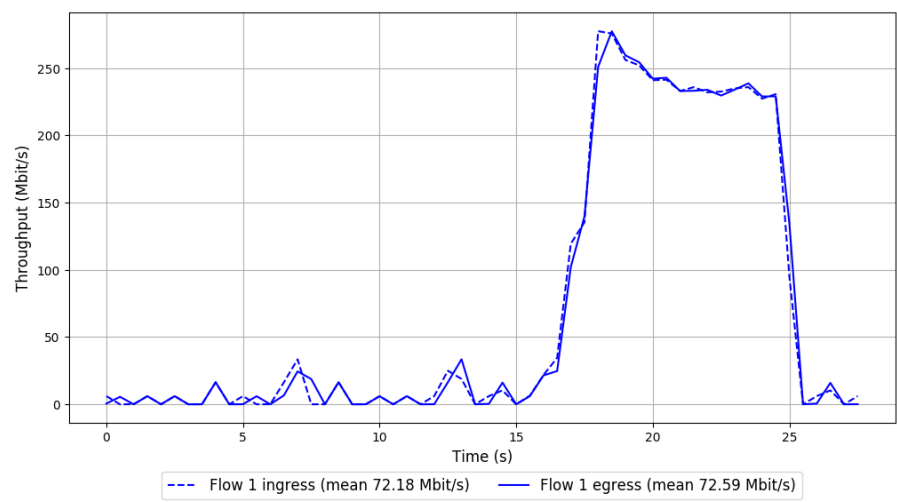


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-09-21 11:08:51
End at: 2017-09-21 11:09:21

# Below is generated by plot.py at 2017-09-21 13:25:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.59 Mbit/s
95th percentile per-packet one-way delay: 87.538 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 72.59 Mbit/s
95th percentile per-packet one-way delay: 87.538 ms
Loss rate: 0.20%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-09-21 09:29:20

End at: 2017-09-21 09:29:50

Below is generated by plot.py at 2017-09-21 13:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.38 Mbit/s

95th percentile per-packet one-way delay: 87.404 ms

Loss rate: 0.28%

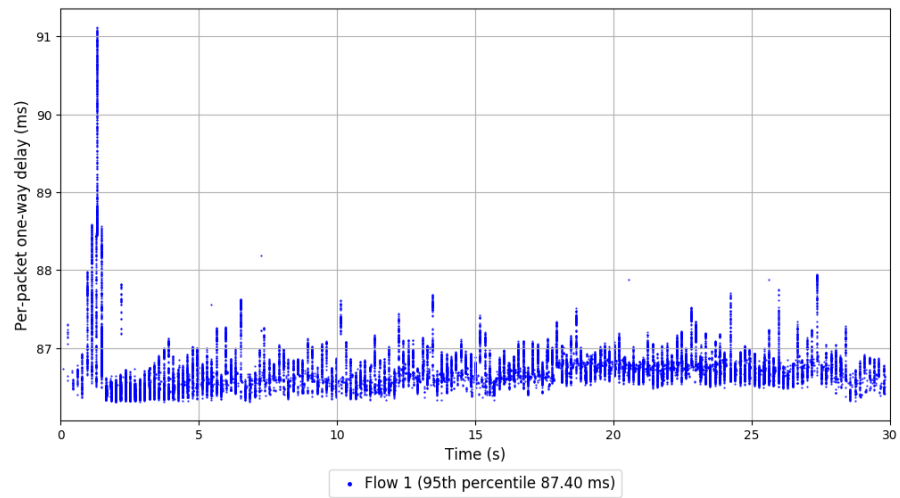
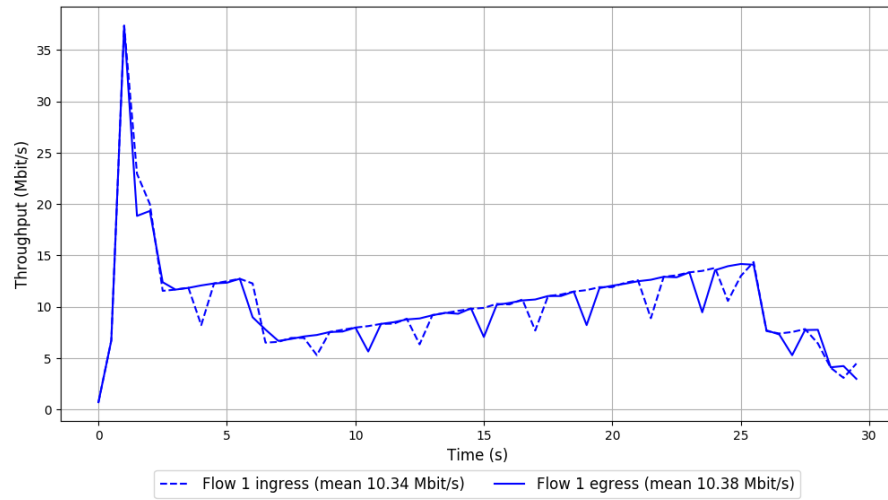
-- Flow 1:

Average throughput: 10.38 Mbit/s

95th percentile per-packet one-way delay: 87.404 ms

Loss rate: 0.28%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-09-21 09:40:47

End at: 2017-09-21 09:41:17

Below is generated by plot.py at 2017-09-21 13:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.99 Mbit/s

95th percentile per-packet one-way delay: 116.278 ms

Loss rate: 0.46%

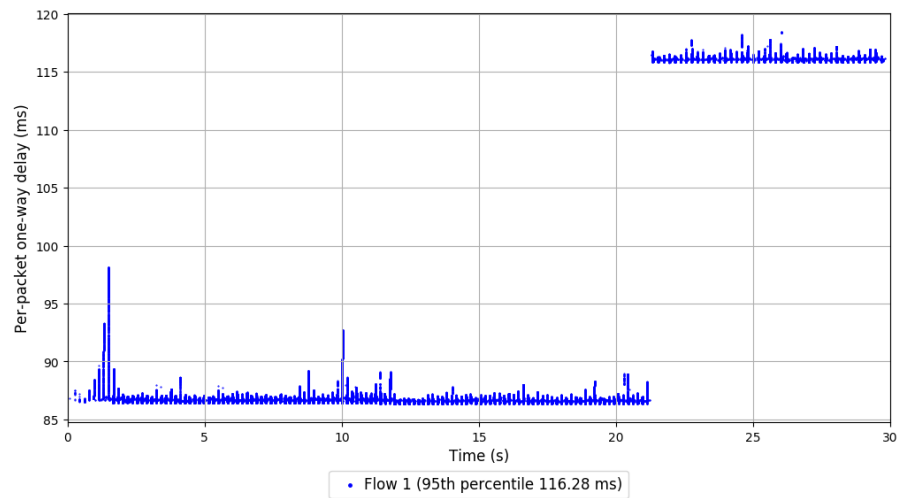
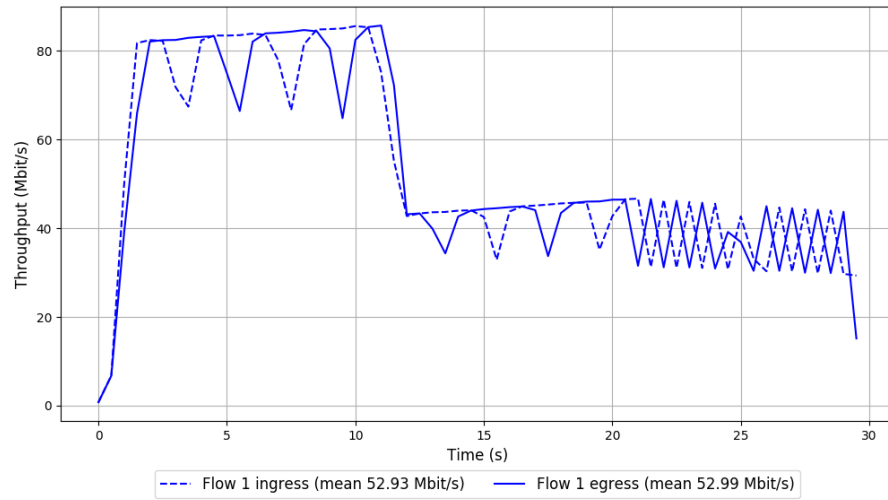
-- Flow 1:

Average throughput: 52.99 Mbit/s

95th percentile per-packet one-way delay: 116.278 ms

Loss rate: 0.46%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-09-21 09:51:26

End at: 2017-09-21 09:51:56

Below is generated by plot.py at 2017-09-21 13:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.27 Mbit/s

95th percentile per-packet one-way delay: 116.303 ms

Loss rate: 0.59%

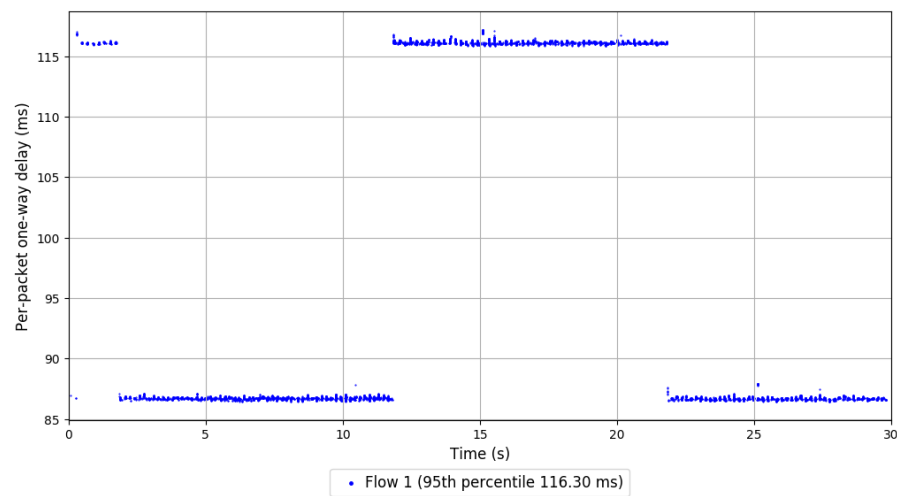
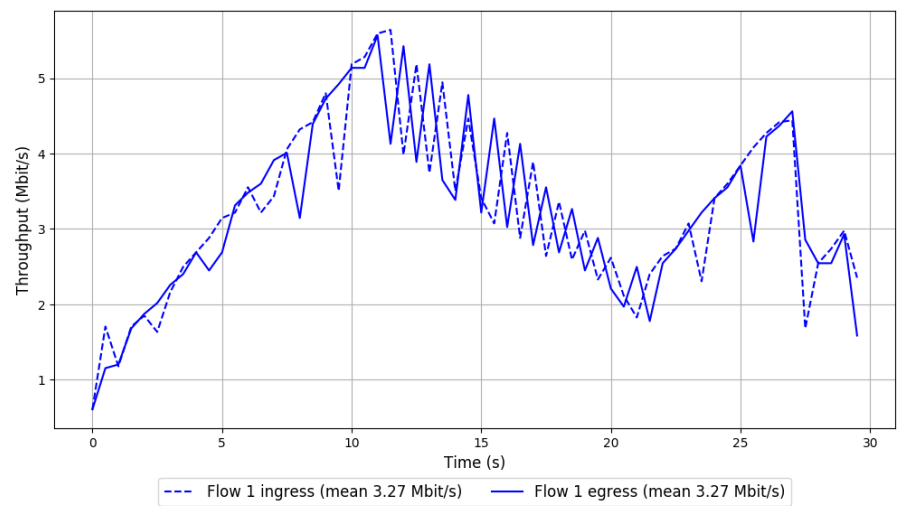
-- Flow 1:

Average throughput: 3.27 Mbit/s

95th percentile per-packet one-way delay: 116.303 ms

Loss rate: 0.59%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-09-21 10:02:11

End at: 2017-09-21 10:02:41

Below is generated by plot.py at 2017-09-21 13:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.48 Mbit/s

95th percentile per-packet one-way delay: 116.063 ms

Loss rate: 0.65%

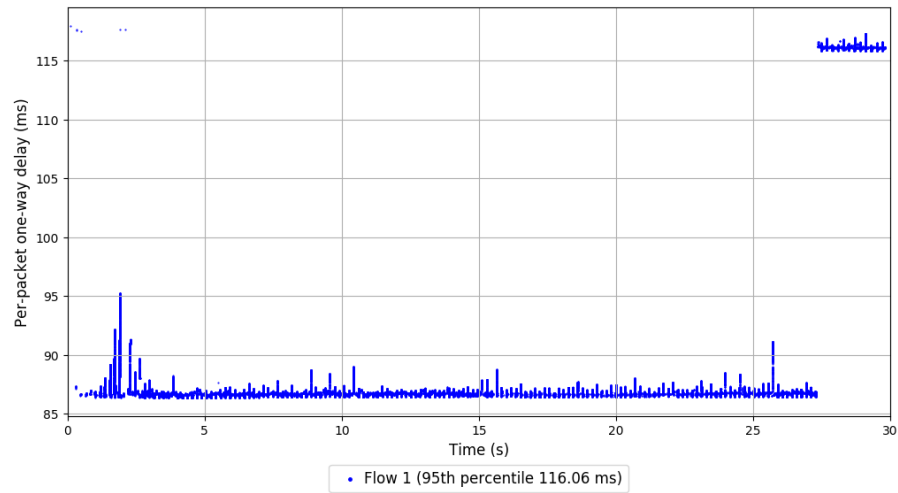
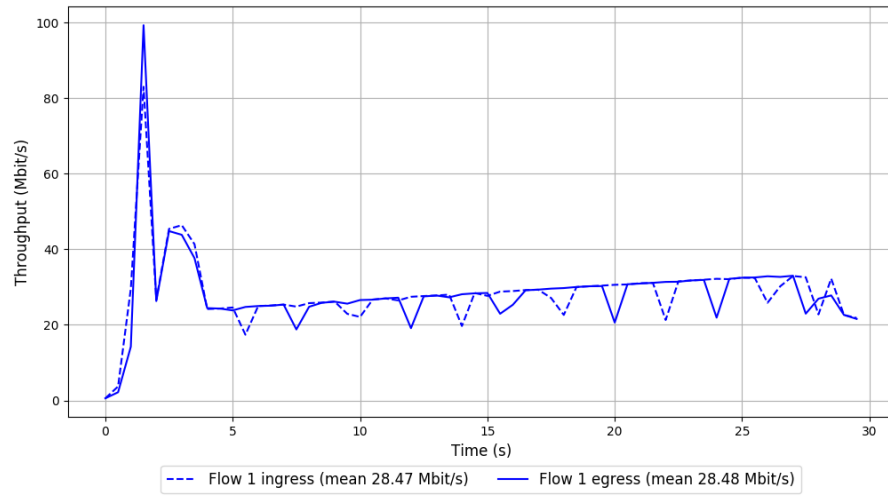
-- Flow 1:

Average throughput: 28.48 Mbit/s

95th percentile per-packet one-way delay: 116.063 ms

Loss rate: 0.65%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-09-21 10:13:43

End at: 2017-09-21 10:14:13

Below is generated by plot.py at 2017-09-21 13:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.86 Mbit/s

95th percentile per-packet one-way delay: 118.530 ms

Loss rate: 0.31%

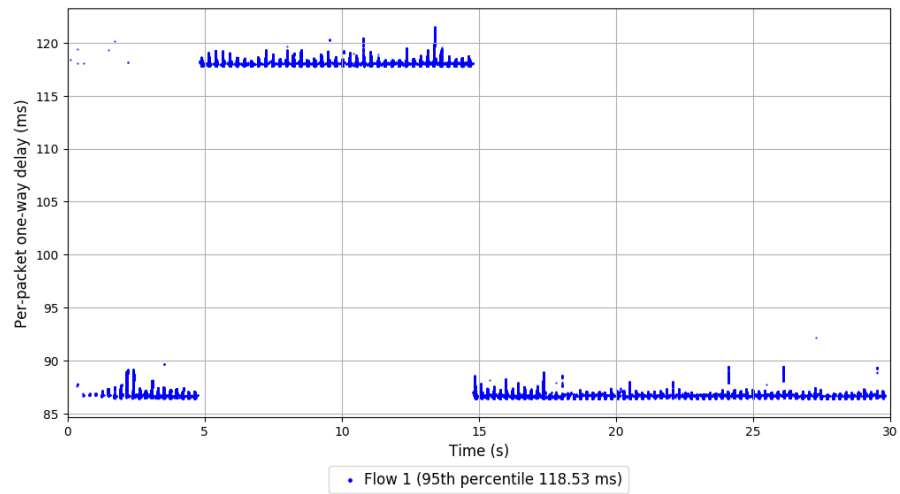
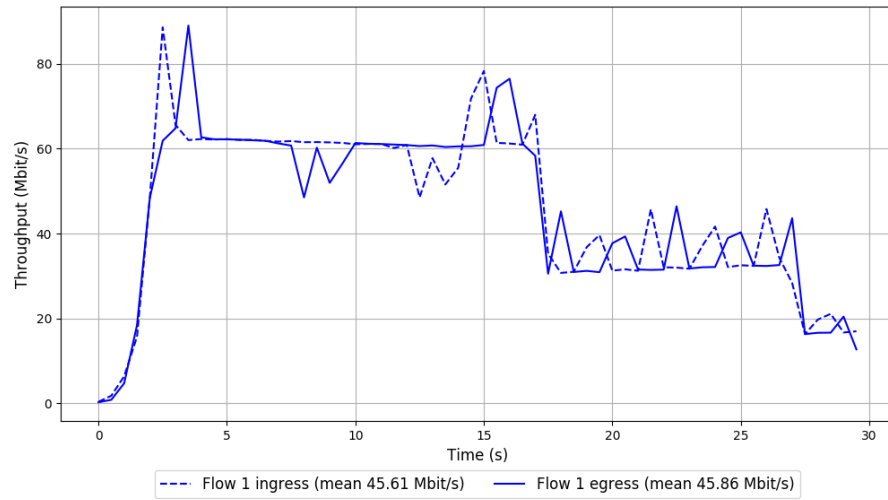
-- Flow 1:

Average throughput: 45.86 Mbit/s

95th percentile per-packet one-way delay: 118.530 ms

Loss rate: 0.31%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-09-21 10:24:31

End at: 2017-09-21 10:25:01

Below is generated by plot.py at 2017-09-21 13:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.98 Mbit/s

95th percentile per-packet one-way delay: 87.674 ms

Loss rate: 0.65%

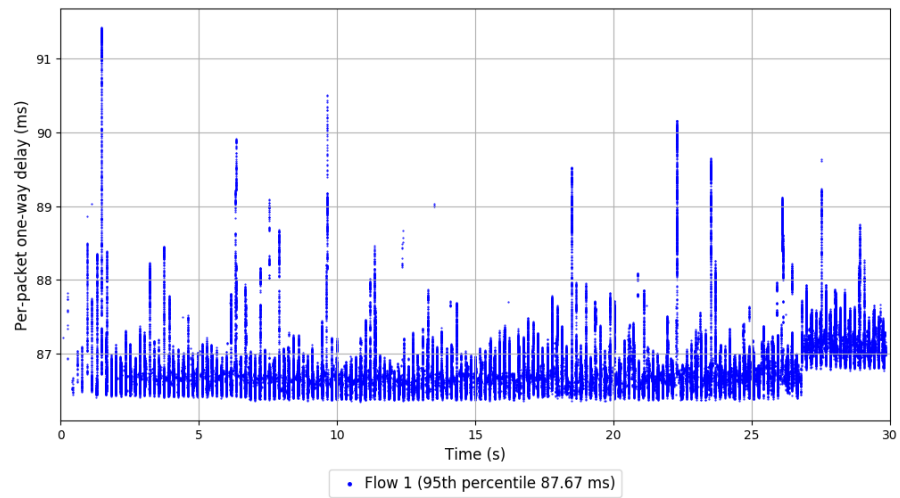
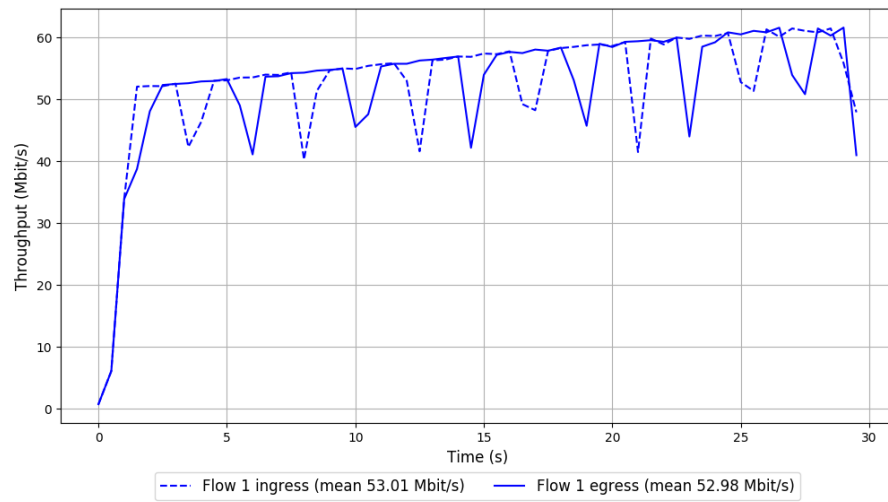
-- Flow 1:

Average throughput: 52.98 Mbit/s

95th percentile per-packet one-way delay: 87.674 ms

Loss rate: 0.65%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-09-21 10:35:30

End at: 2017-09-21 10:36:00

Below is generated by plot.py at 2017-09-21 13:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.71 Mbit/s

95th percentile per-packet one-way delay: 90.787 ms

Loss rate: 0.39%

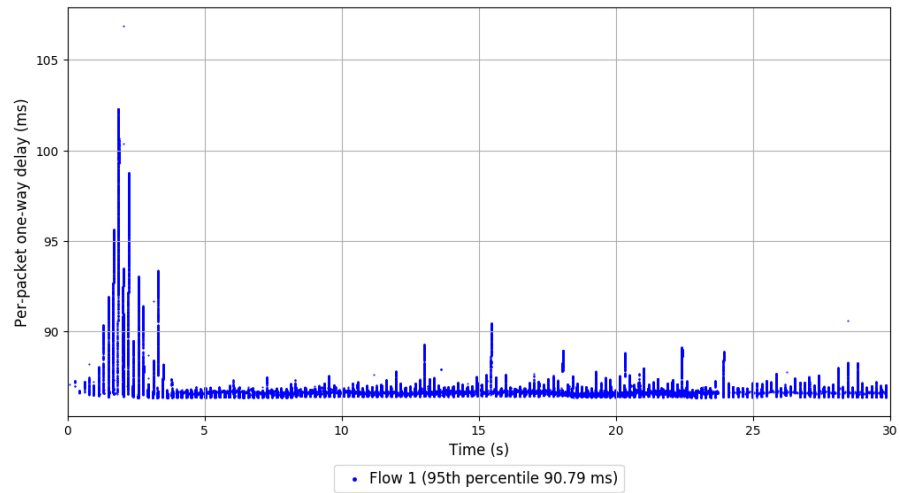
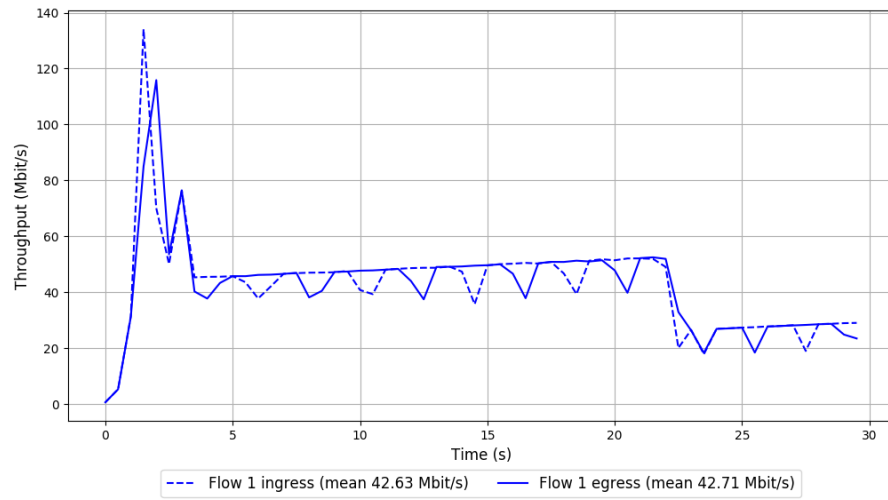
-- Flow 1:

Average throughput: 42.71 Mbit/s

95th percentile per-packet one-way delay: 90.787 ms

Loss rate: 0.39%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-09-21 10:46:19

End at: 2017-09-21 10:46:49

Below is generated by plot.py at 2017-09-21 13:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.48 Mbit/s

95th percentile per-packet one-way delay: 87.556 ms

Loss rate: 0.51%

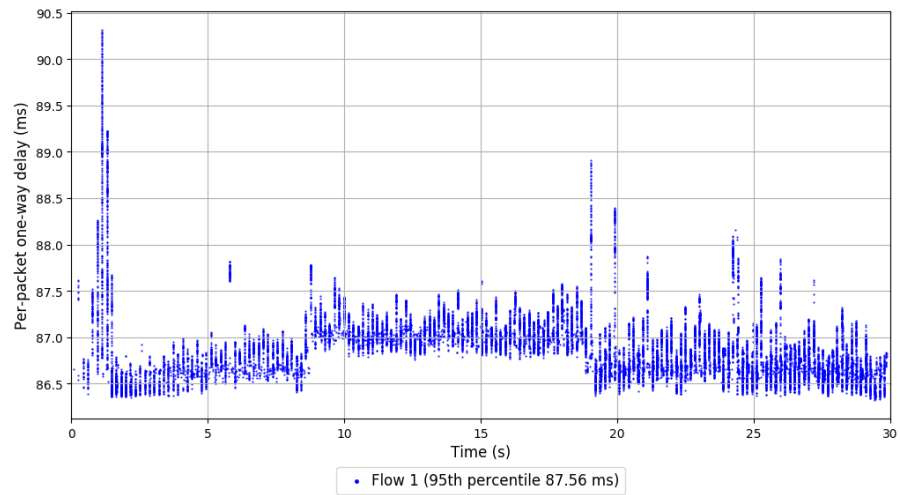
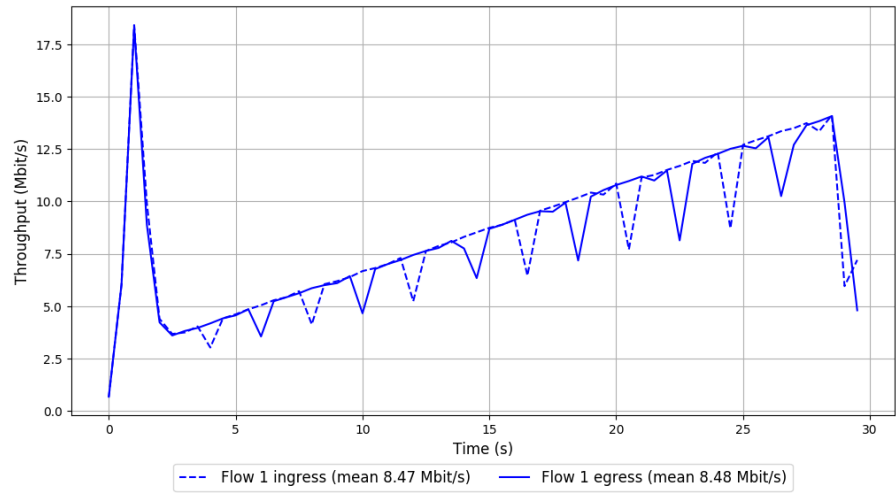
-- Flow 1:

Average throughput: 8.48 Mbit/s

95th percentile per-packet one-way delay: 87.556 ms

Loss rate: 0.51%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-09-21 10:57:12

End at: 2017-09-21 10:57:42

Below is generated by plot.py at 2017-09-21 13:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.35 Mbit/s

95th percentile per-packet one-way delay: 118.112 ms

Loss rate: 0.05%

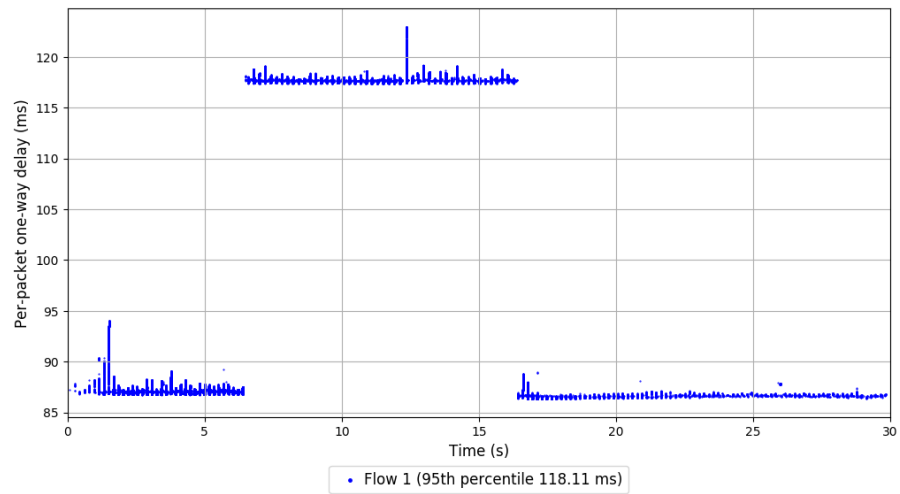
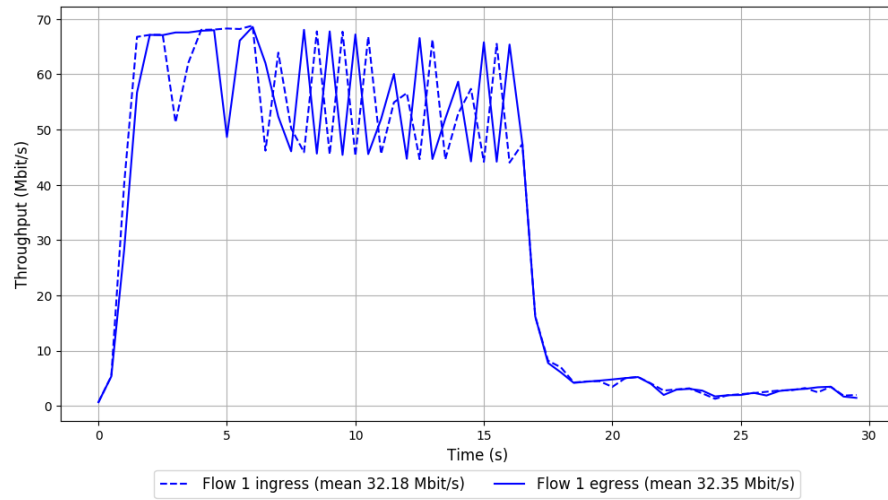
-- Flow 1:

Average throughput: 32.35 Mbit/s

95th percentile per-packet one-way delay: 118.112 ms

Loss rate: 0.05%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-09-21 11:08:11

End at: 2017-09-21 11:08:41

Below is generated by plot.py at 2017-09-21 13:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.27 Mbit/s

95th percentile per-packet one-way delay: 94.561 ms

Loss rate: 0.24%

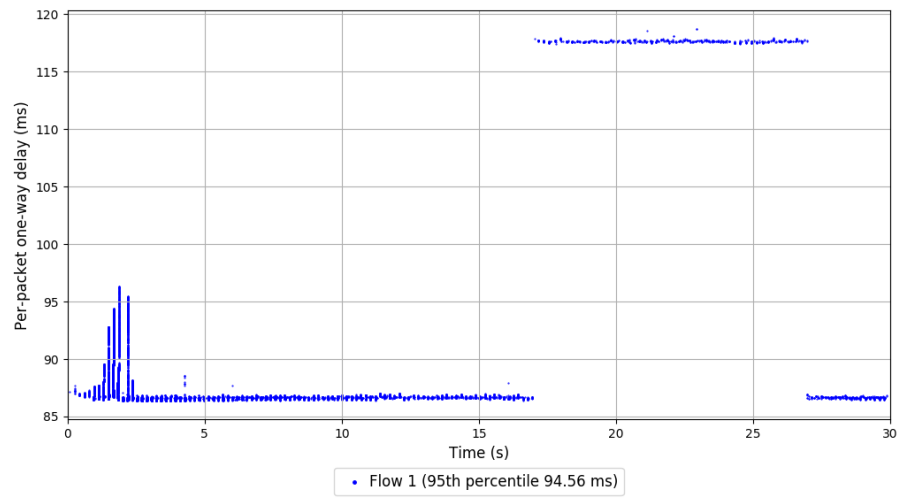
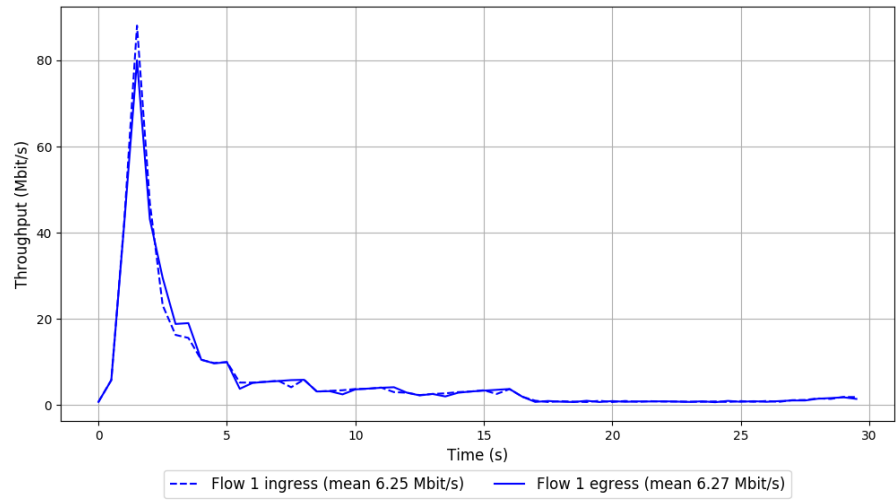
-- Flow 1:

Average throughput: 6.27 Mbit/s

95th percentile per-packet one-way delay: 94.561 ms

Loss rate: 0.24%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

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

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

Below is generated by plot.py at 2017-09-21 13:29:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 244.95 Mbit/s

95th percentile per-packet one-way delay: 223.992 ms

Loss rate: 5.36%

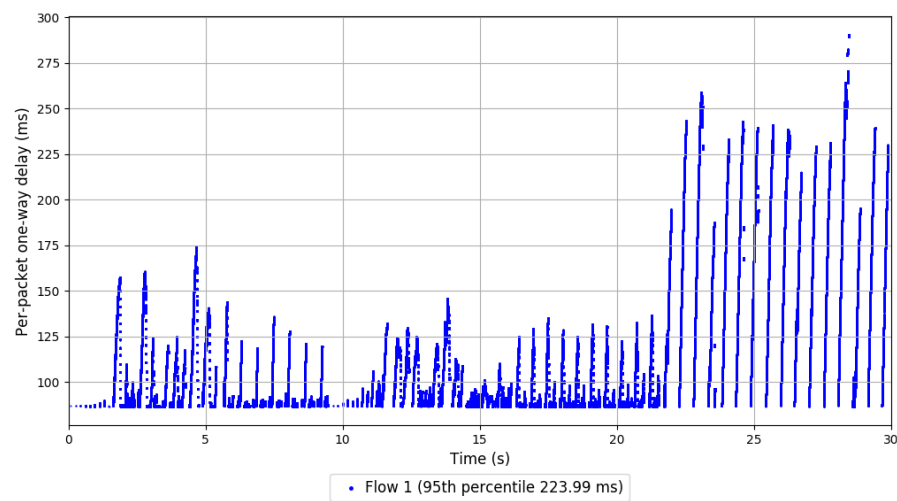
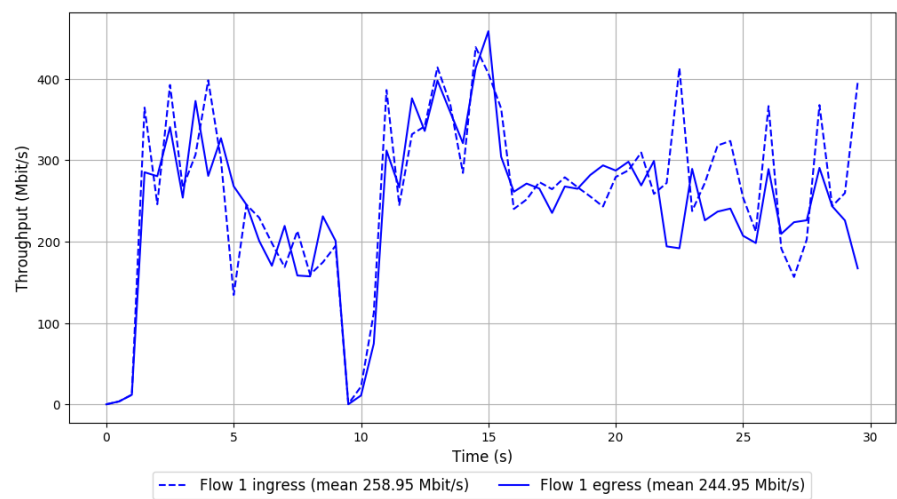
-- Flow 1:

Average throughput: 244.95 Mbit/s

95th percentile per-packet one-way delay: 223.992 ms

Loss rate: 5.36%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-09-21 09:33:58

End at: 2017-09-21 09:34:28

Below is generated by plot.py at 2017-09-21 13:29:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.10 Mbit/s

95th percentile per-packet one-way delay: 123.316 ms

Loss rate: 0.62%

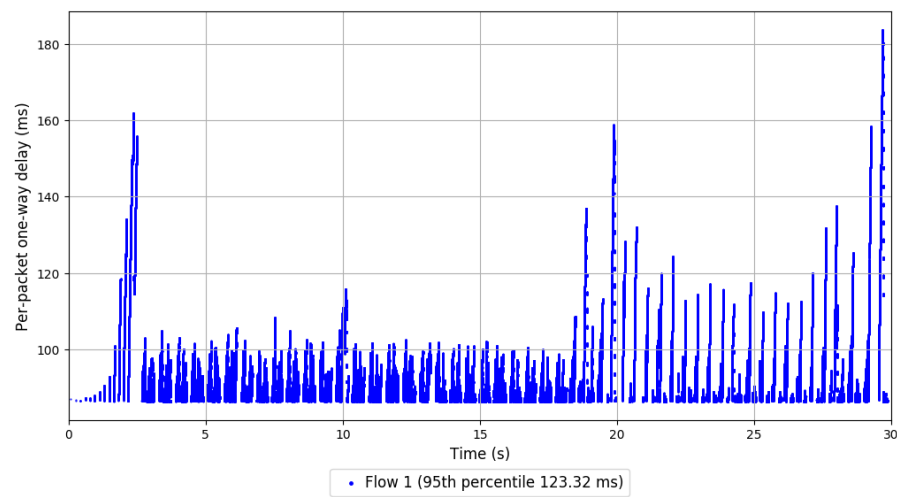
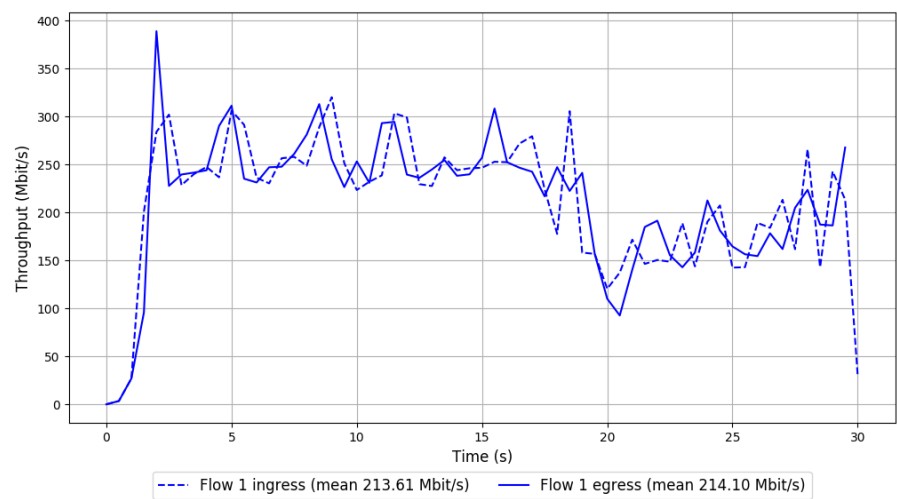
-- Flow 1:

Average throughput: 214.10 Mbit/s

95th percentile per-packet one-way delay: 123.316 ms

Loss rate: 0.62%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-09-21 09:45:17

End at: 2017-09-21 09:45:47

Below is generated by plot.py at 2017-09-21 13:29:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.55 Mbit/s

95th percentile per-packet one-way delay: 142.724 ms

Loss rate: 2.20%

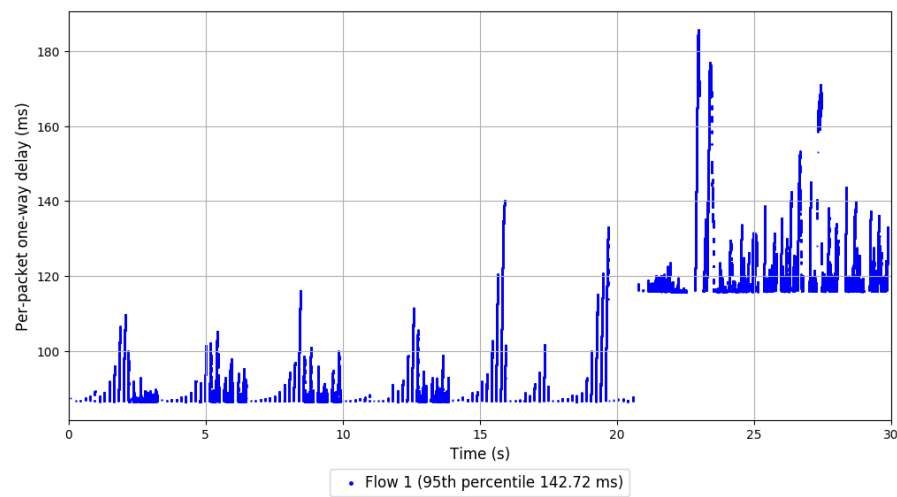
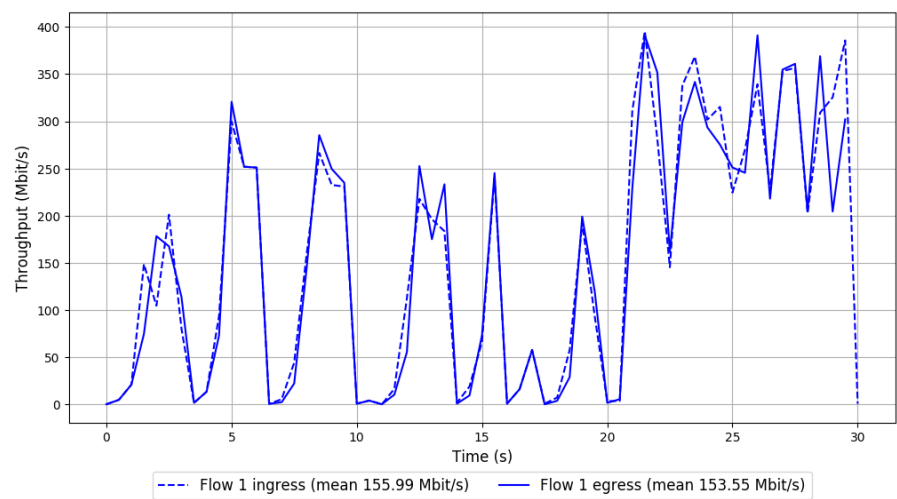
-- Flow 1:

Average throughput: 153.55 Mbit/s

95th percentile per-packet one-way delay: 142.724 ms

Loss rate: 2.20%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-09-21 09:55:44

End at: 2017-09-21 09:56:14

Below is generated by plot.py at 2017-09-21 13:29:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.18 Mbit/s

95th percentile per-packet one-way delay: 122.390 ms

Loss rate: 0.97%

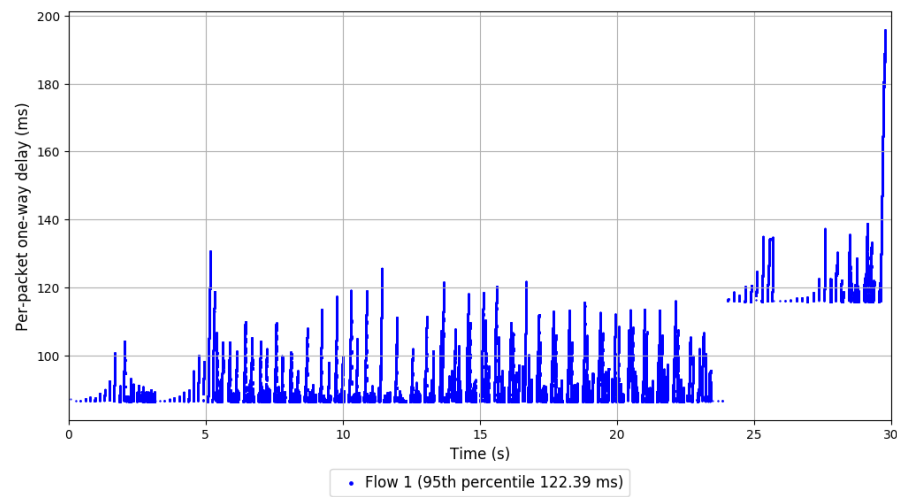
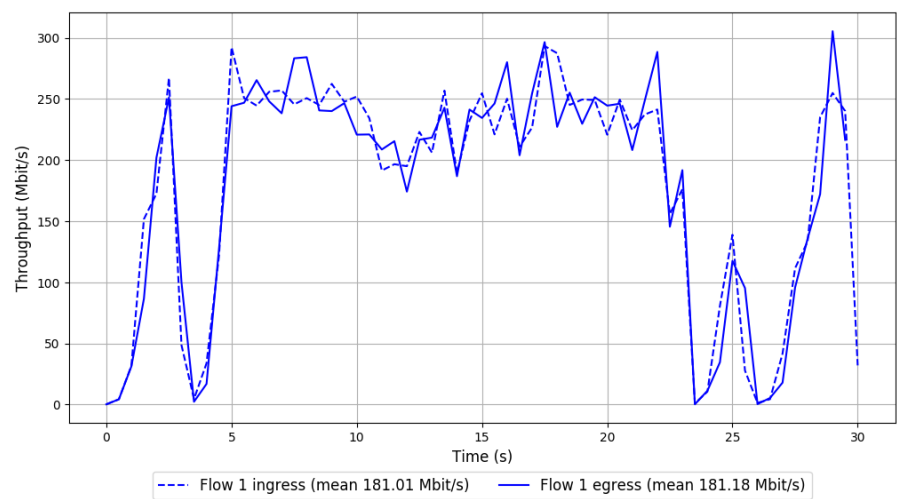
-- Flow 1:

Average throughput: 181.18 Mbit/s

95th percentile per-packet one-way delay: 122.390 ms

Loss rate: 0.97%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-09-21 10:06:54

End at: 2017-09-21 10:07:24

Below is generated by plot.py at 2017-09-21 13:29:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.91 Mbit/s

95th percentile per-packet one-way delay: 119.880 ms

Loss rate: 0.75%

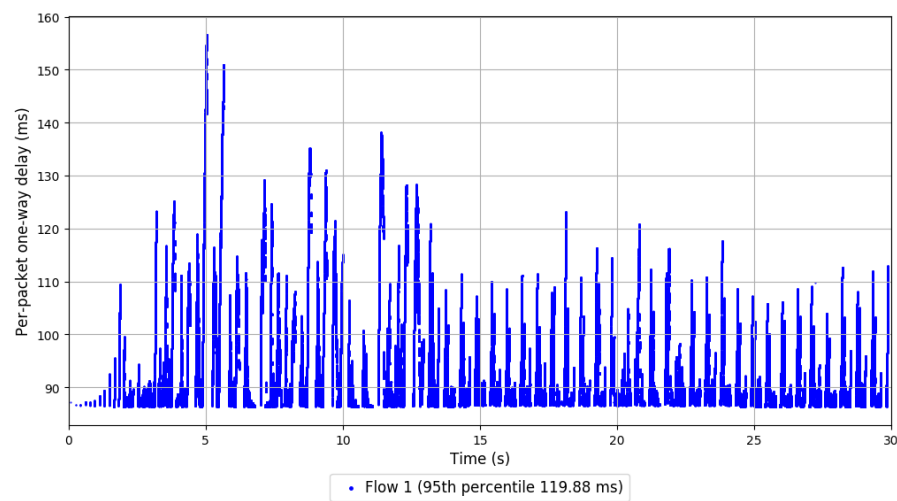
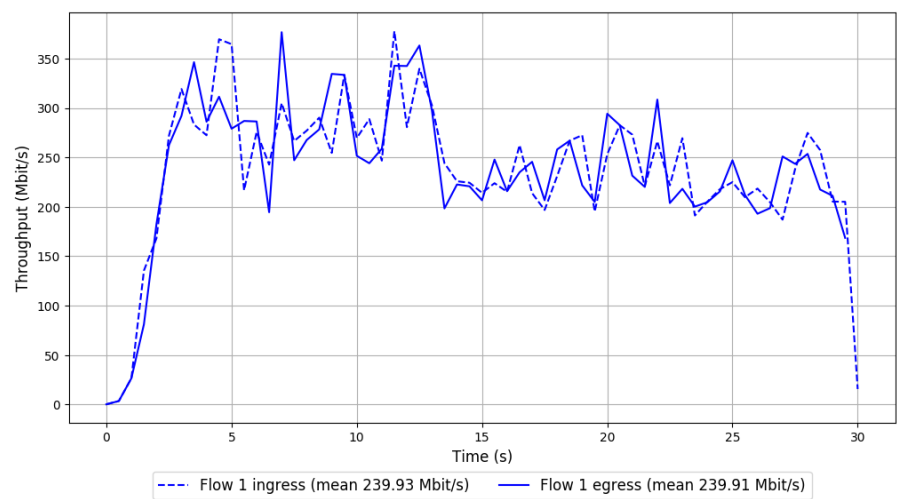
-- Flow 1:

Average throughput: 239.91 Mbit/s

95th percentile per-packet one-way delay: 119.880 ms

Loss rate: 0.75%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-09-21 10:17:57

End at: 2017-09-21 10:18:27

Below is generated by plot.py at 2017-09-21 13:29:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.24 Mbit/s

95th percentile per-packet one-way delay: 205.563 ms

Loss rate: 4.11%

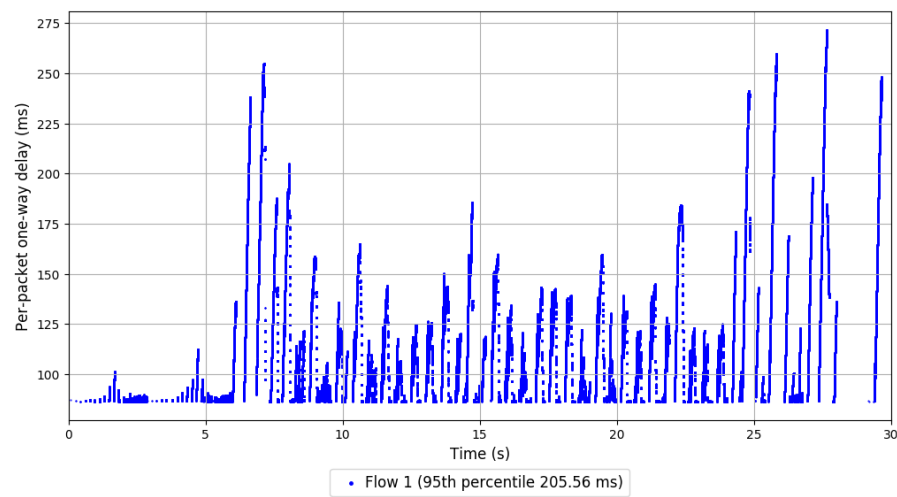
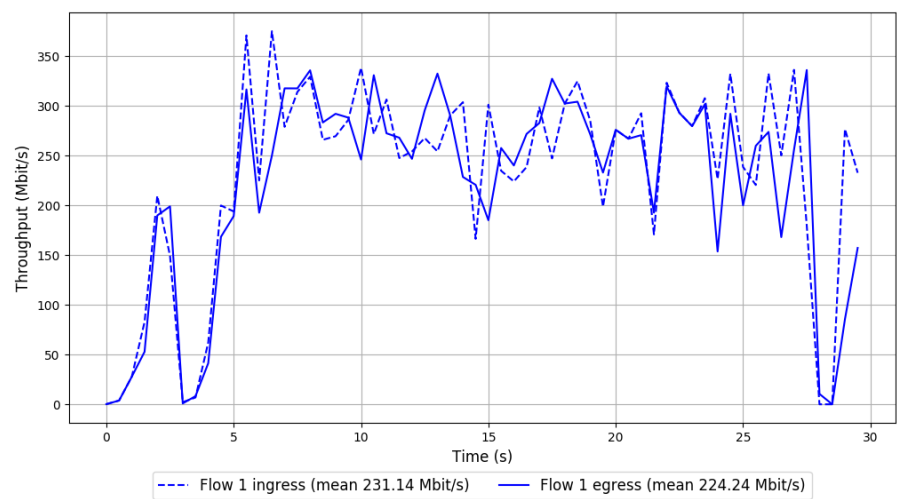
-- Flow 1:

Average throughput: 224.24 Mbit/s

95th percentile per-packet one-way delay: 205.563 ms

Loss rate: 4.11%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-09-21 10:28:59

End at: 2017-09-21 10:29:29

Below is generated by plot.py at 2017-09-21 13:29:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.56 Mbit/s

95th percentile per-packet one-way delay: 130.453 ms

Loss rate: 0.44%

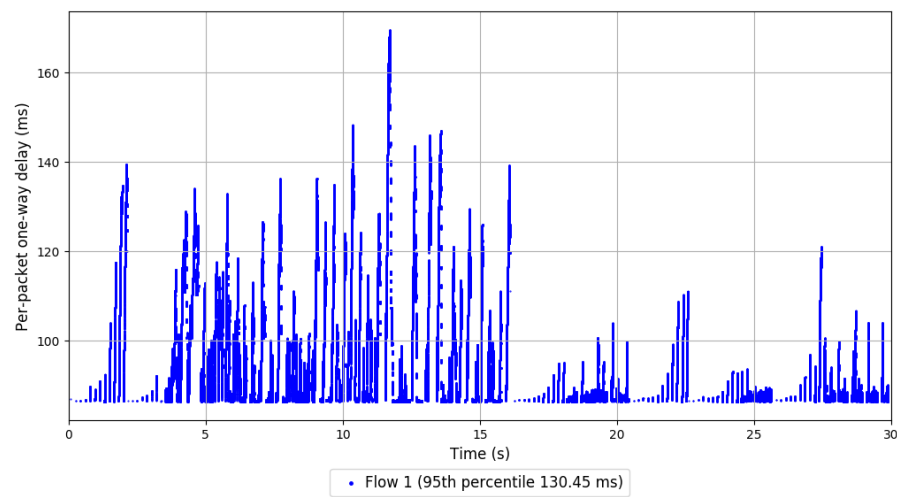
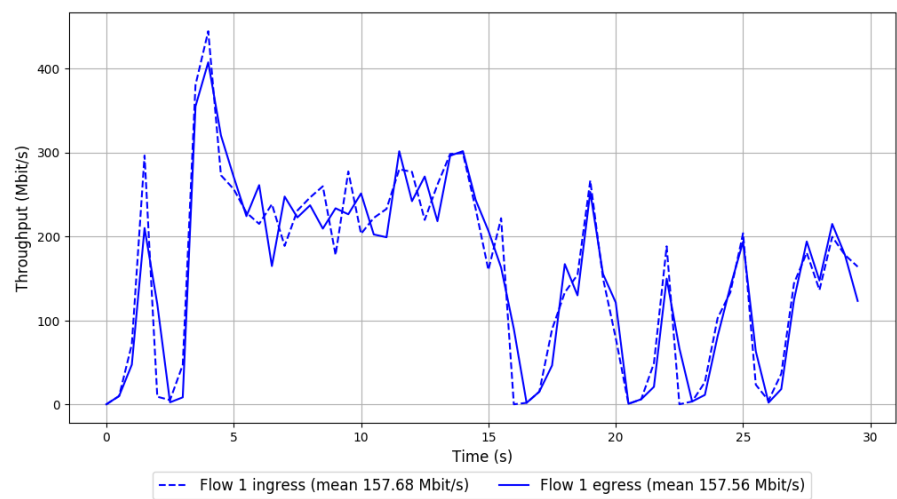
-- Flow 1:

Average throughput: 157.56 Mbit/s

95th percentile per-packet one-way delay: 130.453 ms

Loss rate: 0.44%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-09-21 10:39:59

End at: 2017-09-21 10:40:29

Below is generated by plot.py at 2017-09-21 13:29:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 145.50 Mbit/s

95th percentile per-packet one-way delay: 138.170 ms

Loss rate: 1.28%

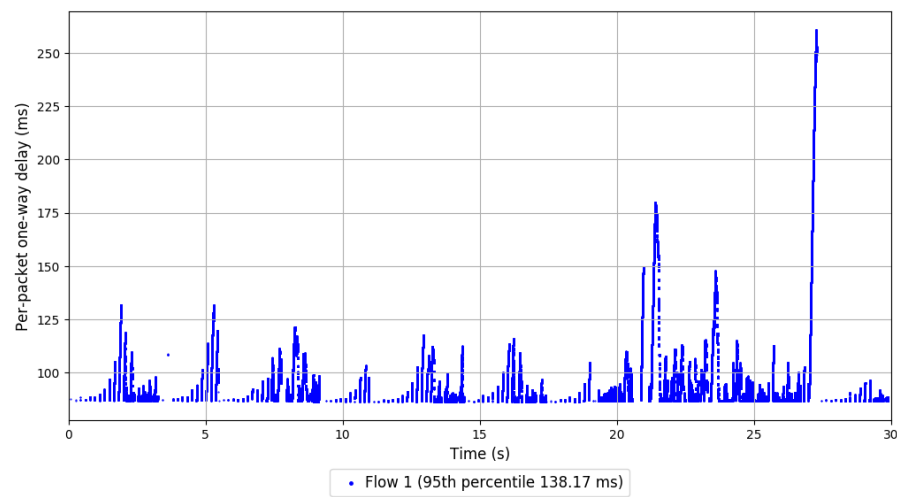
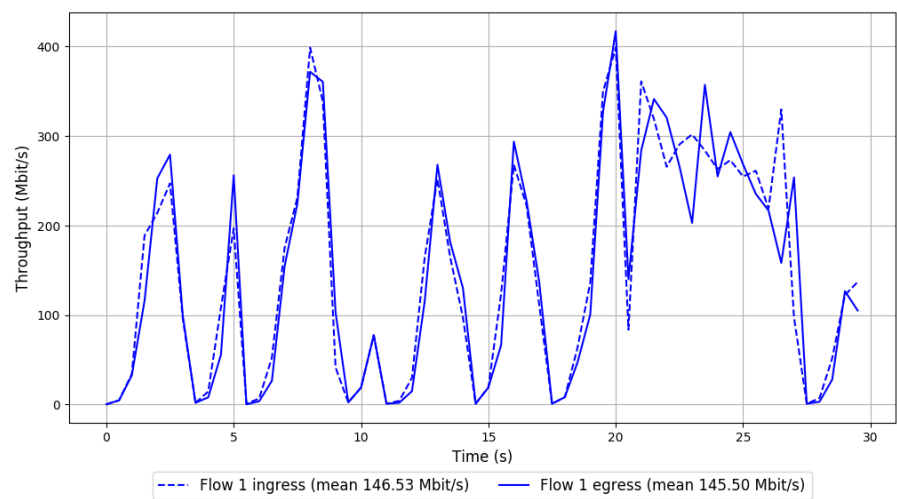
-- Flow 1:

Average throughput: 145.50 Mbit/s

95th percentile per-packet one-way delay: 138.170 ms

Loss rate: 1.28%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-09-21 10:50:41

End at: 2017-09-21 10:51:11

Below is generated by plot.py at 2017-09-21 13:31:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.92 Mbit/s

95th percentile per-packet one-way delay: 126.770 ms

Loss rate: 1.13%

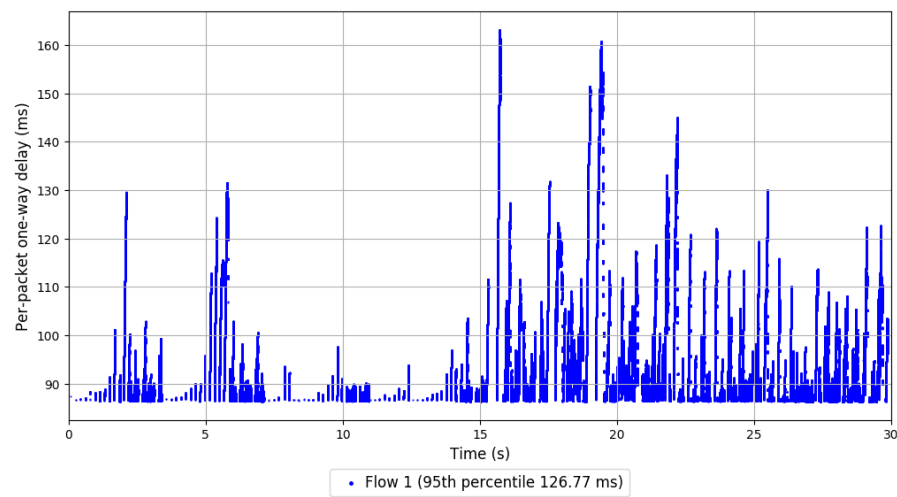
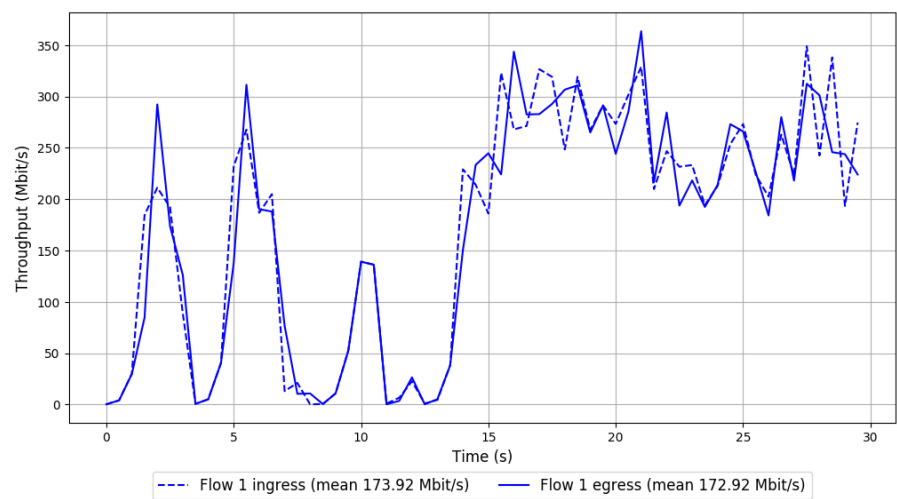
-- Flow 1:

Average throughput: 172.92 Mbit/s

95th percentile per-packet one-way delay: 126.770 ms

Loss rate: 1.13%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-09-21 11:01:38

End at: 2017-09-21 11:02:08

Below is generated by plot.py at 2017-09-21 13:31:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.53 Mbit/s

95th percentile per-packet one-way delay: 151.145 ms

Loss rate: 0.29%

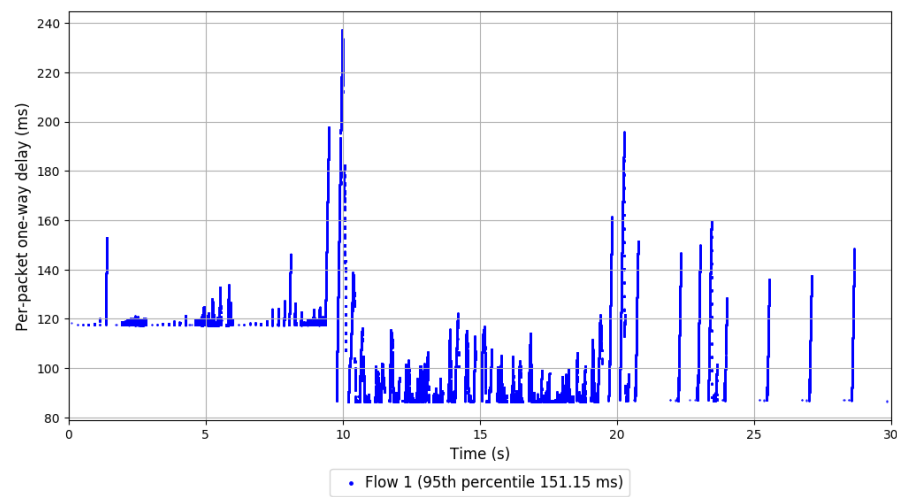
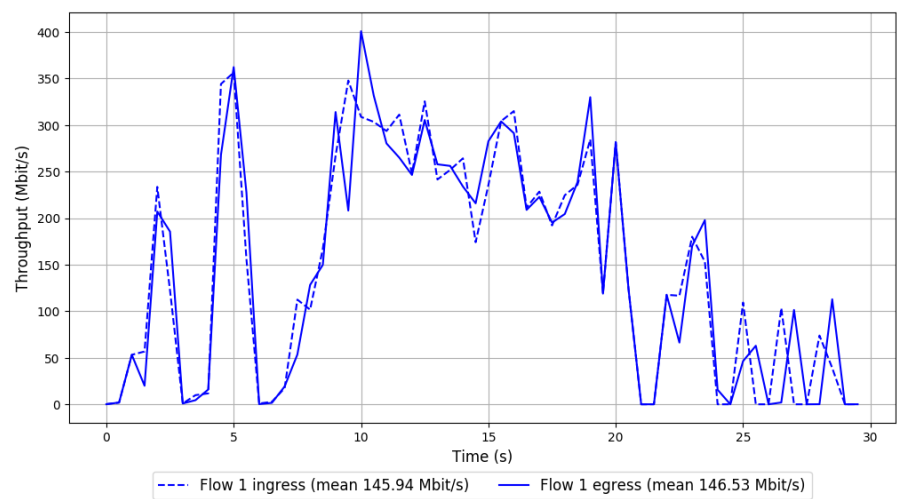
-- Flow 1:

Average throughput: 146.53 Mbit/s

95th percentile per-packet one-way delay: 151.145 ms

Loss rate: 0.29%

Run 10: Report of Verus — Data Link

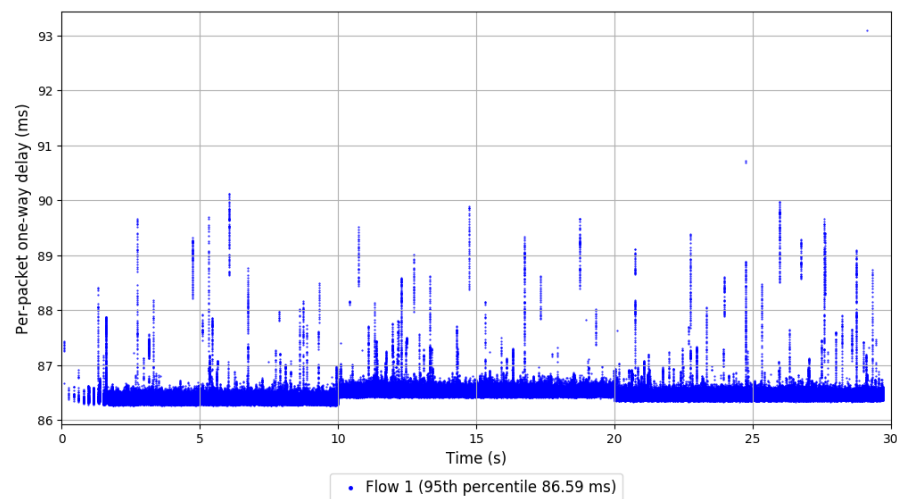
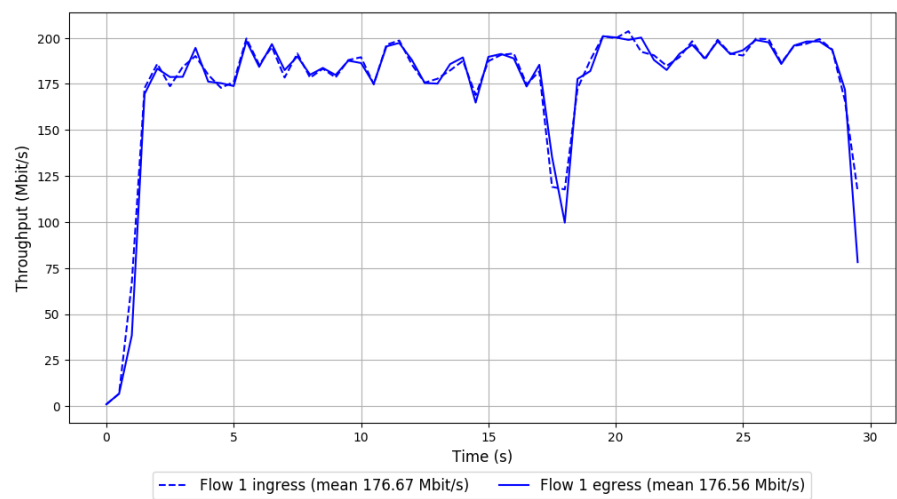


```
Run 1: Statistics of Indigo

Start at: 2017-09-21 09:24:28
End at: 2017-09-21 09:24:58

# Below is generated by plot.py at 2017-09-21 13:31:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 176.56 Mbit/s
95th percentile per-packet one-way delay: 86.587 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 176.56 Mbit/s
95th percentile per-packet one-way delay: 86.587 ms
Loss rate: 0.65%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-09-21 09:35:49

End at: 2017-09-21 09:36:19

Below is generated by plot.py at 2017-09-21 13:32:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.60 Mbit/s

95th percentile per-packet one-way delay: 86.523 ms

Loss rate: 0.67%

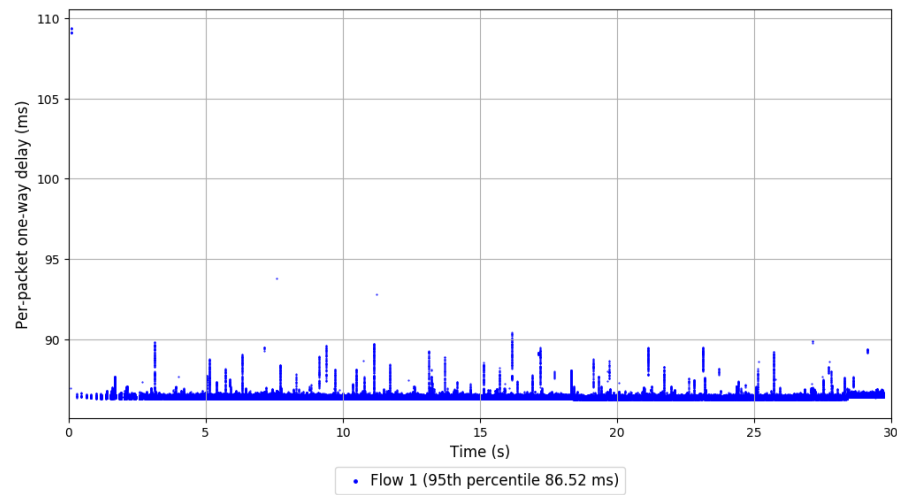
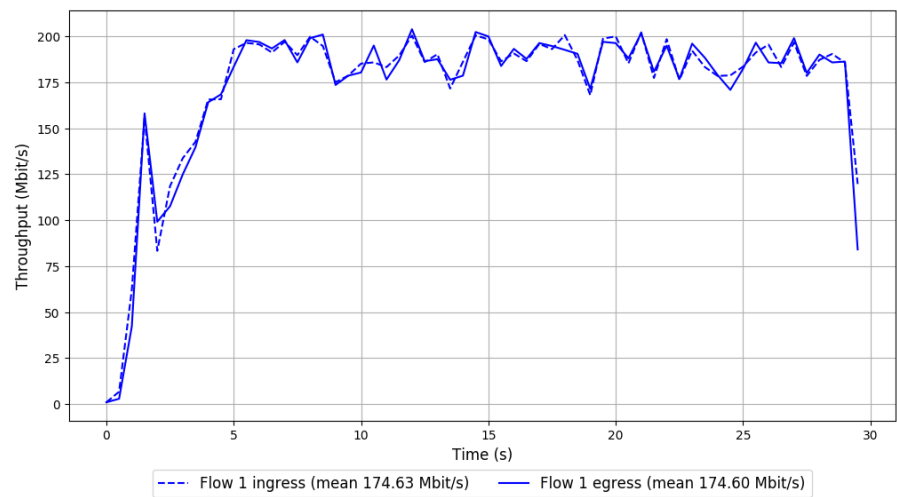
-- Flow 1:

Average throughput: 174.60 Mbit/s

95th percentile per-packet one-way delay: 86.523 ms

Loss rate: 0.67%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-09-21 09:47:04

End at: 2017-09-21 09:47:34

Below is generated by plot.py at 2017-09-21 13:32:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.30 Mbit/s

95th percentile per-packet one-way delay: 115.956 ms

Loss rate: 0.41%

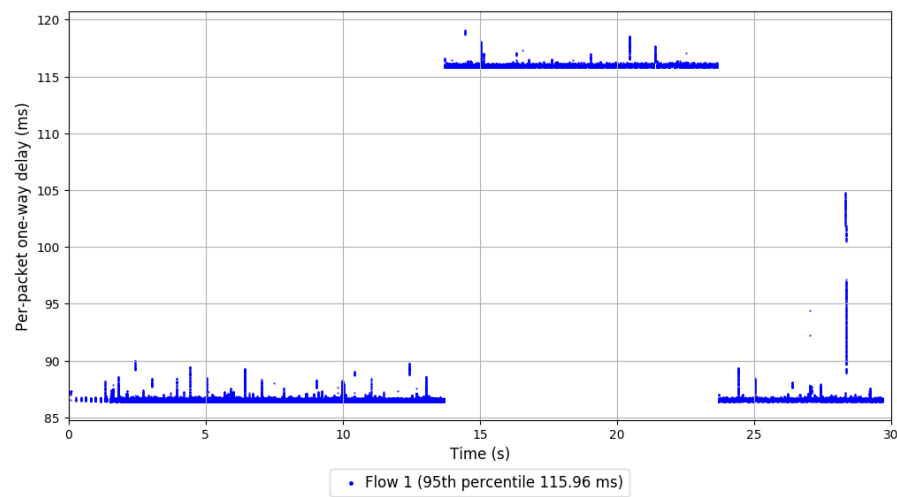
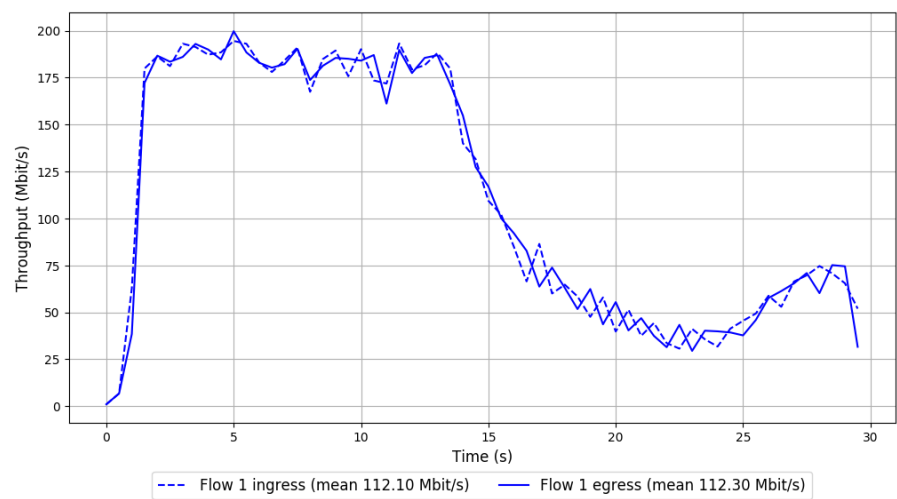
-- Flow 1:

Average throughput: 112.30 Mbit/s

95th percentile per-packet one-way delay: 115.956 ms

Loss rate: 0.41%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-09-21 09:57:32

End at: 2017-09-21 09:58:02

Below is generated by plot.py at 2017-09-21 13:32:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.90 Mbit/s

95th percentile per-packet one-way delay: 115.989 ms

Loss rate: 0.45%

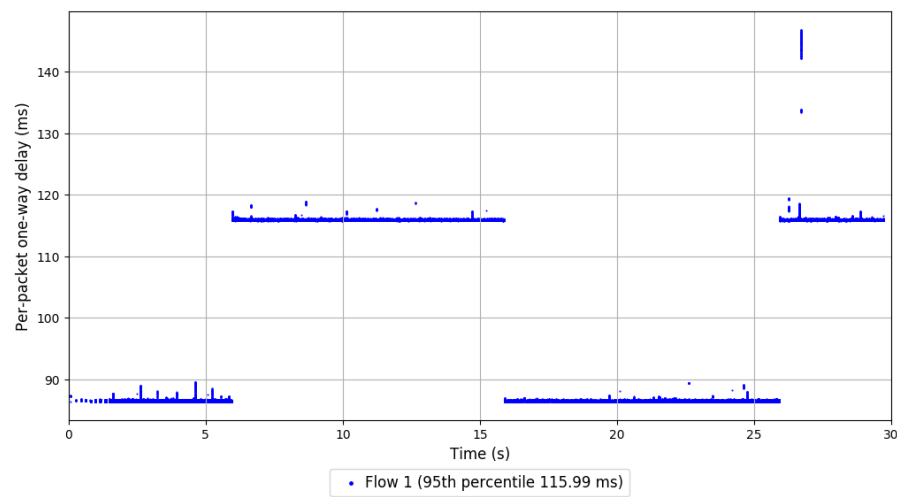
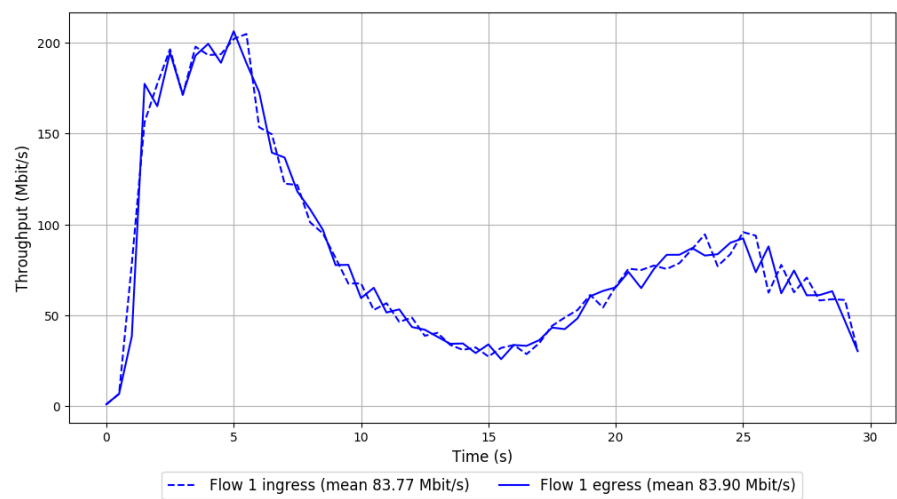
-- Flow 1:

Average throughput: 83.90 Mbit/s

95th percentile per-packet one-way delay: 115.989 ms

Loss rate: 0.45%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-09-21 10:08:47

End at: 2017-09-21 10:09:17

Below is generated by plot.py at 2017-09-21 13:32:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.34 Mbit/s

95th percentile per-packet one-way delay: 86.567 ms

Loss rate: 0.65%

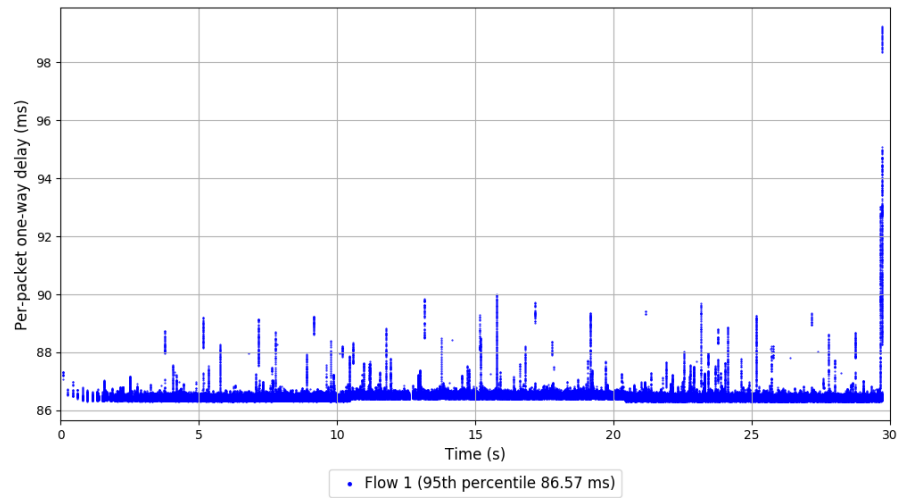
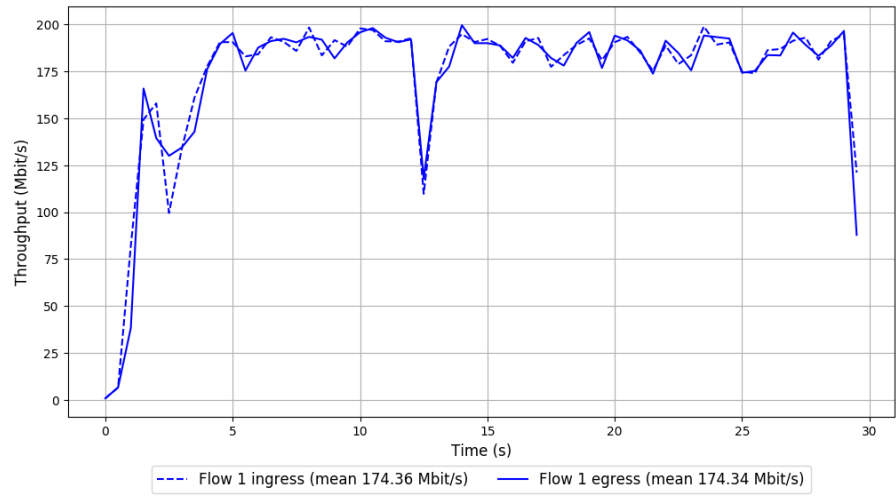
-- Flow 1:

Average throughput: 174.34 Mbit/s

95th percentile per-packet one-way delay: 86.567 ms

Loss rate: 0.65%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-09-21 10:19:44

End at: 2017-09-21 10:20:14

Below is generated by plot.py at 2017-09-21 13:32:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.49 Mbit/s

95th percentile per-packet one-way delay: 86.629 ms

Loss rate: 0.66%

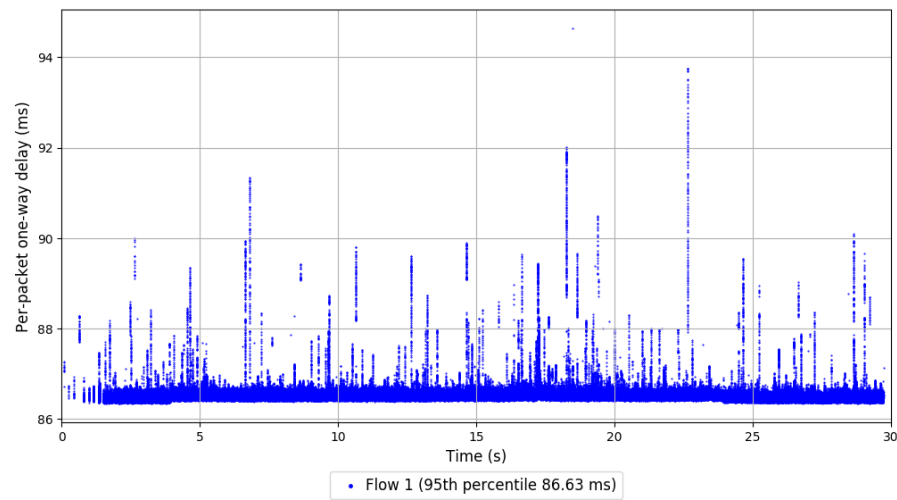
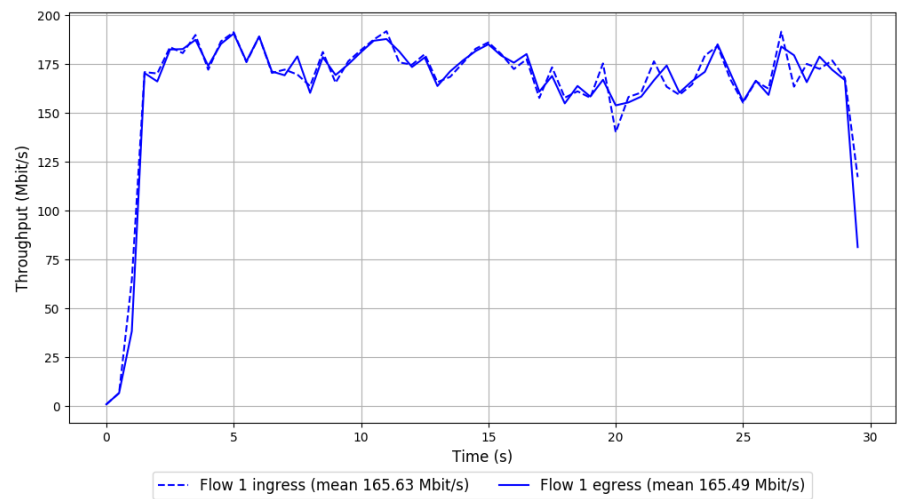
-- Flow 1:

Average throughput: 165.49 Mbit/s

95th percentile per-packet one-way delay: 86.629 ms

Loss rate: 0.66%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-09-21 10:30:42

End at: 2017-09-21 10:31:12

Below is generated by plot.py at 2017-09-21 13:34:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.26 Mbit/s

95th percentile per-packet one-way delay: 86.593 ms

Loss rate: 0.64%

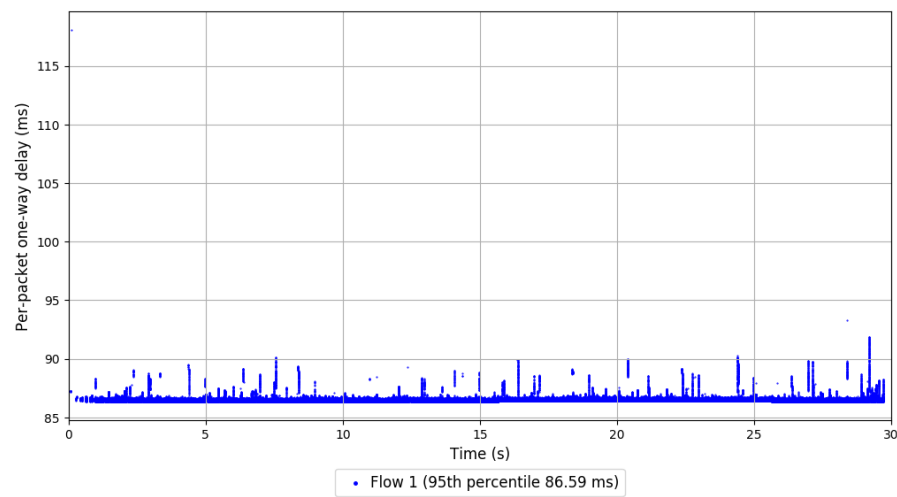
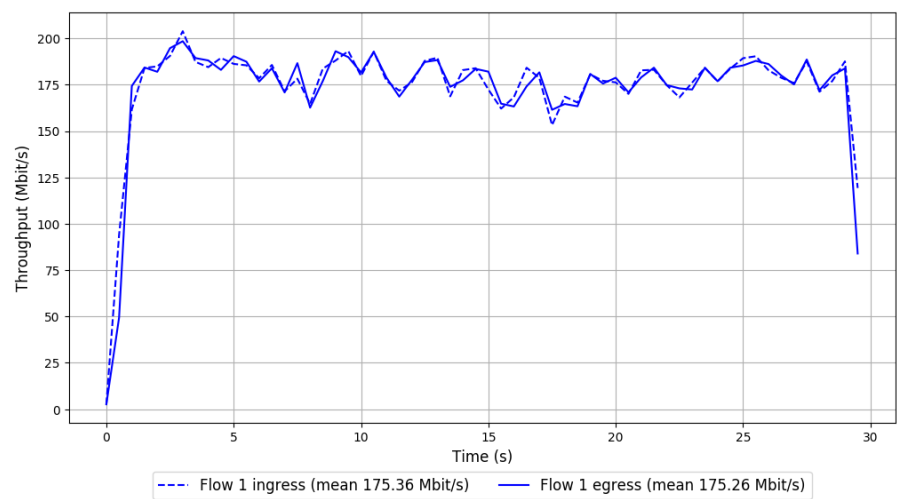
-- Flow 1:

Average throughput: 175.26 Mbit/s

95th percentile per-packet one-way delay: 86.593 ms

Loss rate: 0.64%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-09-21 10:41:40

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

Below is generated by plot.py at 2017-09-21 13:34:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.13 Mbit/s

95th percentile per-packet one-way delay: 117.501 ms

Loss rate: 0.60%

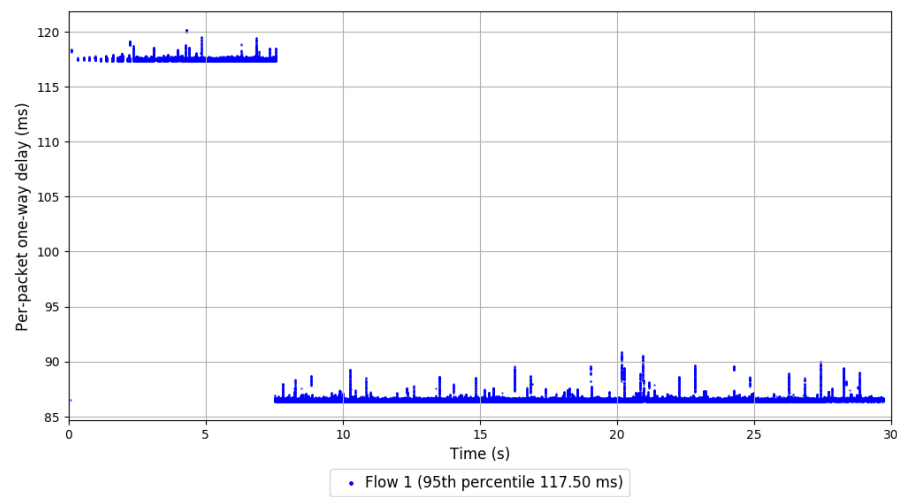
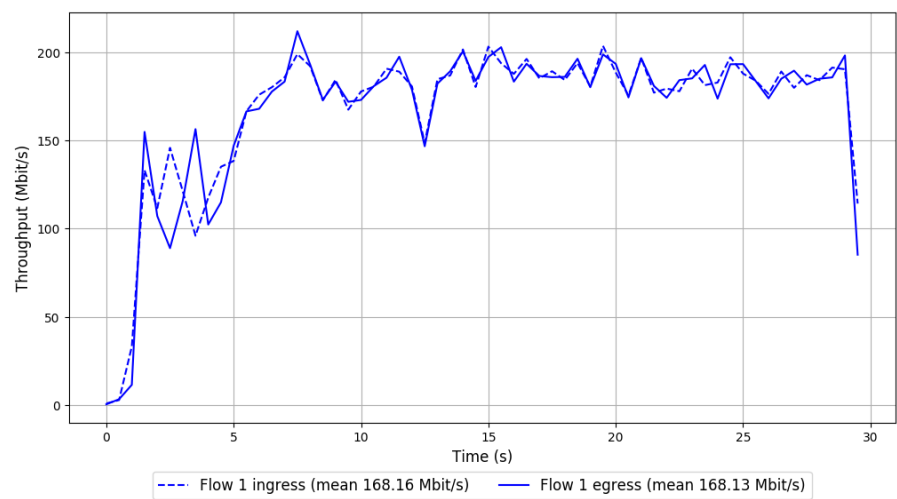
-- Flow 1:

Average throughput: 168.13 Mbit/s

95th percentile per-packet one-way delay: 117.501 ms

Loss rate: 0.60%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-09-21 10:52:25

End at: 2017-09-21 10:52:55

Below is generated by plot.py at 2017-09-21 13:34:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.95 Mbit/s

95th percentile per-packet one-way delay: 86.875 ms

Loss rate: 0.68%

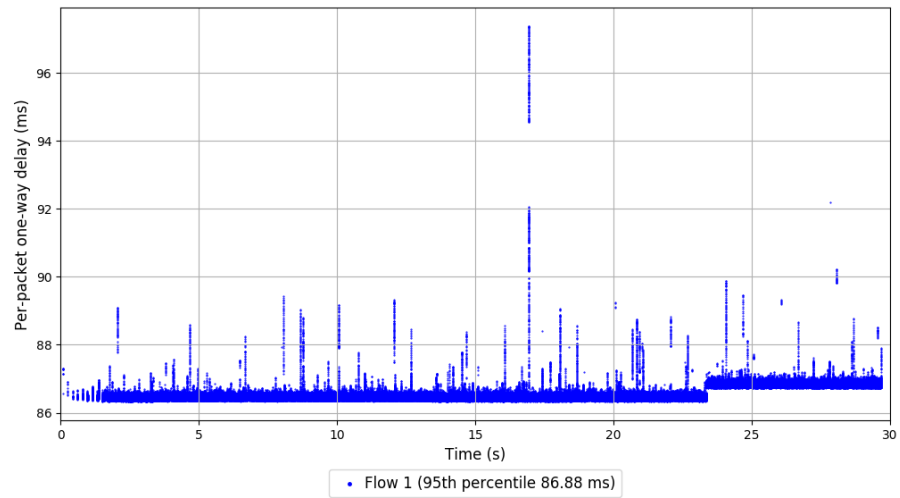
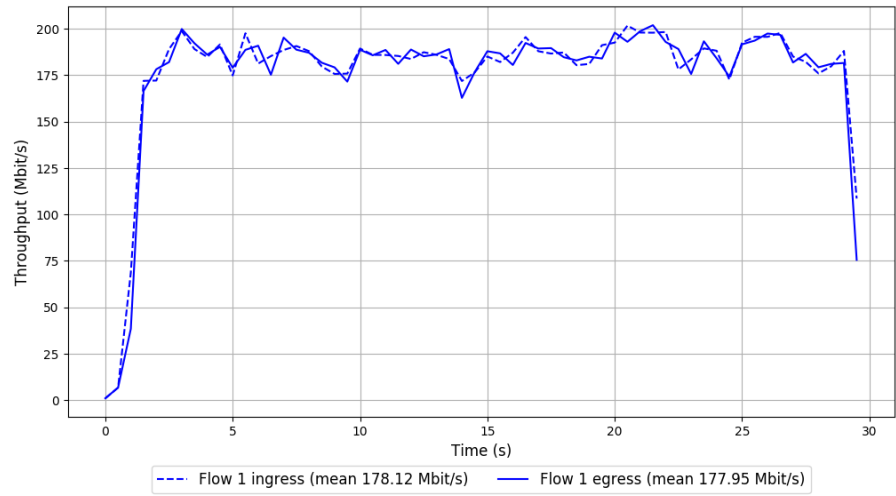
-- Flow 1:

Average throughput: 177.95 Mbit/s

95th percentile per-packet one-way delay: 86.875 ms

Loss rate: 0.68%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-09-21 11:03:21

End at: 2017-09-21 11:03:51

Below is generated by plot.py at 2017-09-21 13:34:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 159.75 Mbit/s

95th percentile per-packet one-way delay: 117.570 ms

Loss rate: 0.40%

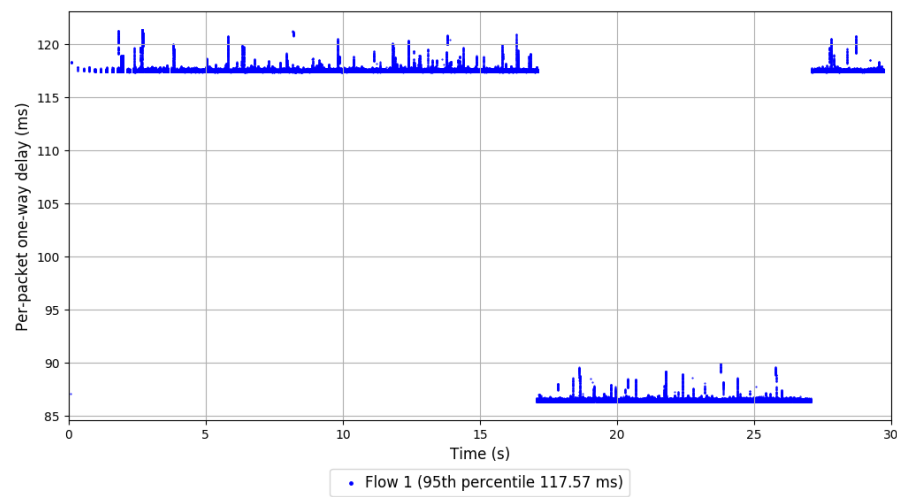
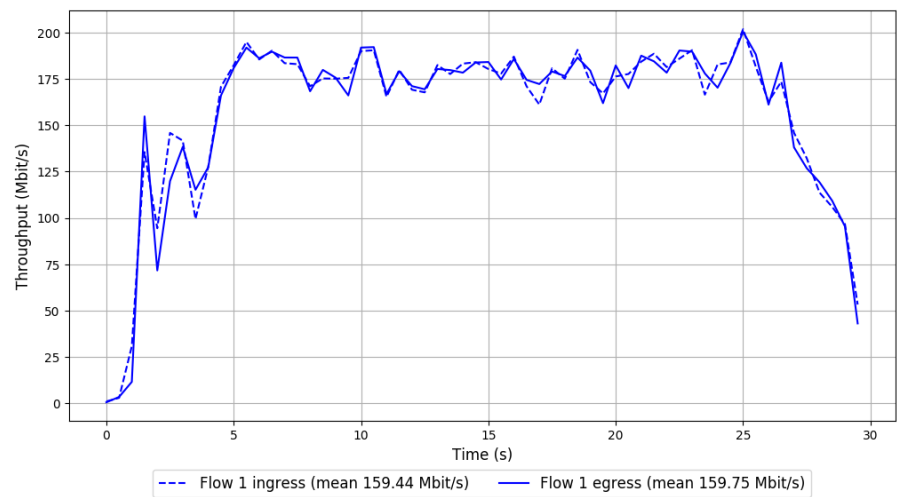
-- Flow 1:

Average throughput: 159.75 Mbit/s

95th percentile per-packet one-way delay: 117.570 ms

Loss rate: 0.40%

Run 10: Report of Indigo — Data Link

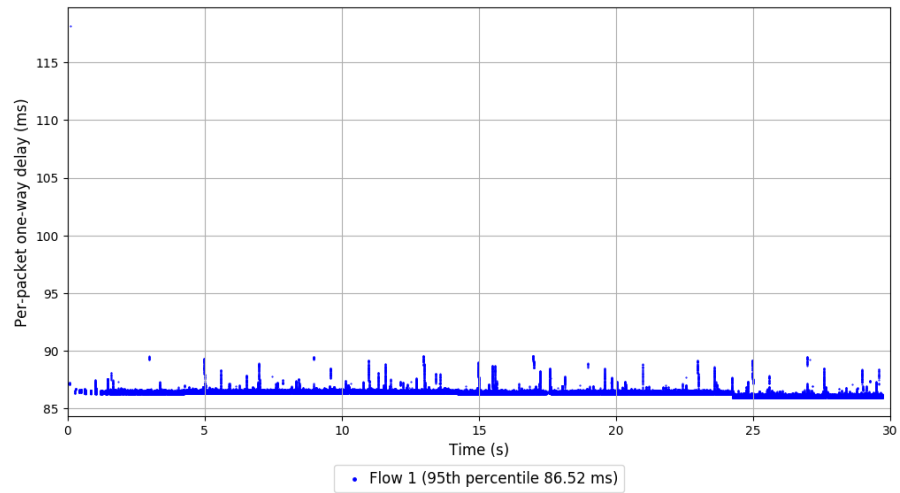
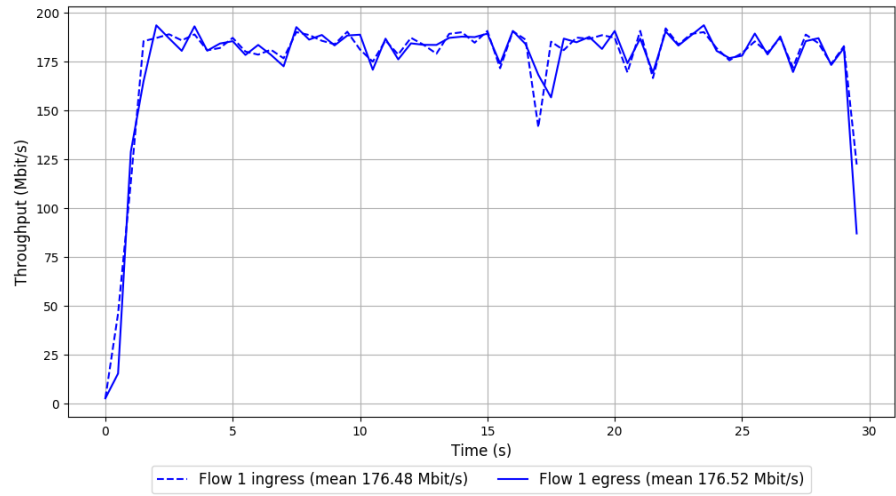


```
Run 1: Statistics of Indigo-calib

Start at: 2017-09-21 09:23:34
End at: 2017-09-21 09:24:04

# Below is generated by plot.py at 2017-09-21 13:34:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 176.52 Mbit/s
95th percentile per-packet one-way delay: 86.521 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 176.52 Mbit/s
95th percentile per-packet one-way delay: 86.521 ms
Loss rate: 0.65%
```


Run 1: Report of Indigo-calib — Data Link

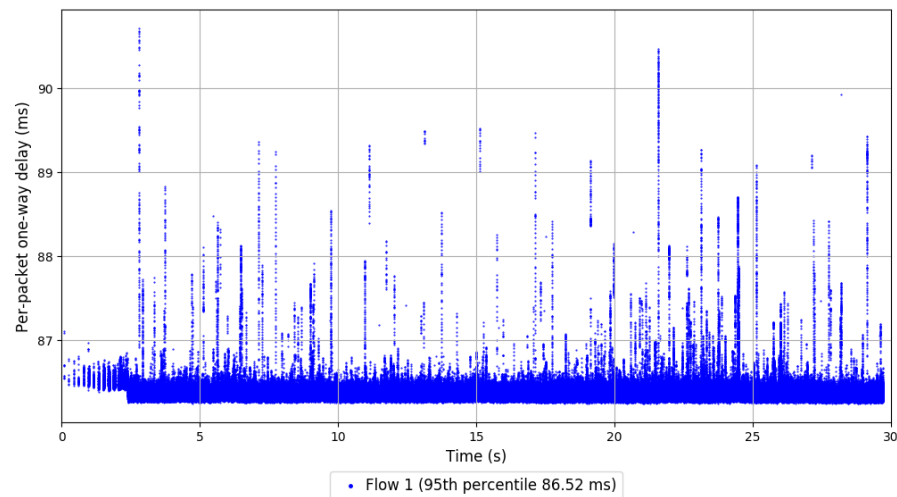
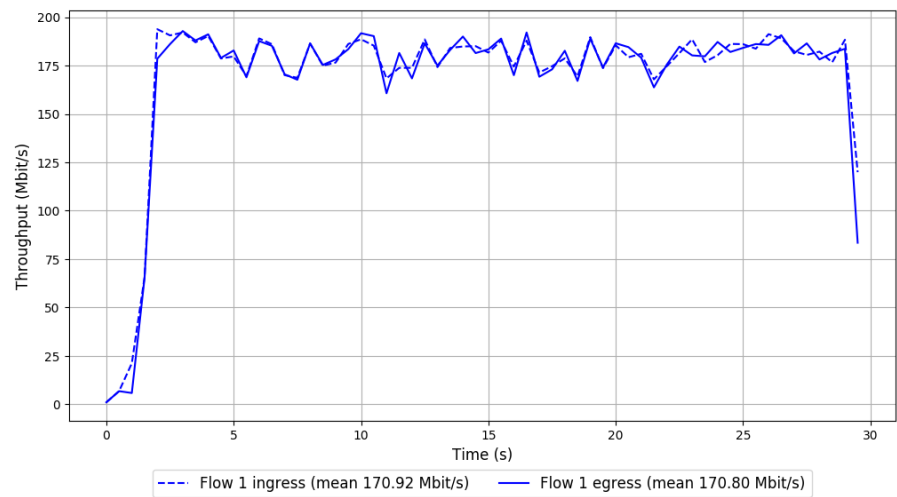


```
Run 2: Statistics of Indigo-calib

Start at: 2017-09-21 09:34:55
End at: 2017-09-21 09:35:25

# Below is generated by plot.py at 2017-09-21 13:35:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 170.80 Mbit/s
95th percentile per-packet one-way delay: 86.523 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 170.80 Mbit/s
95th percentile per-packet one-way delay: 86.523 ms
Loss rate: 0.68%
```

Run 2: Report of Indigo-calib — Data Link

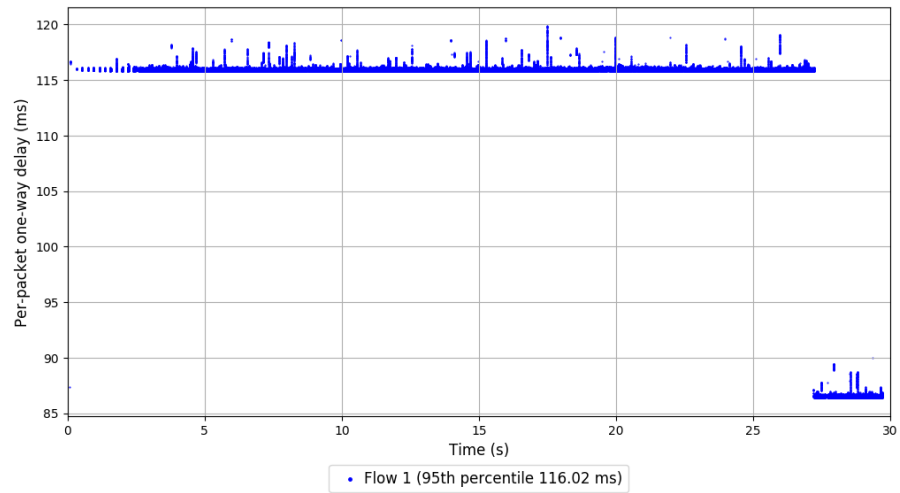
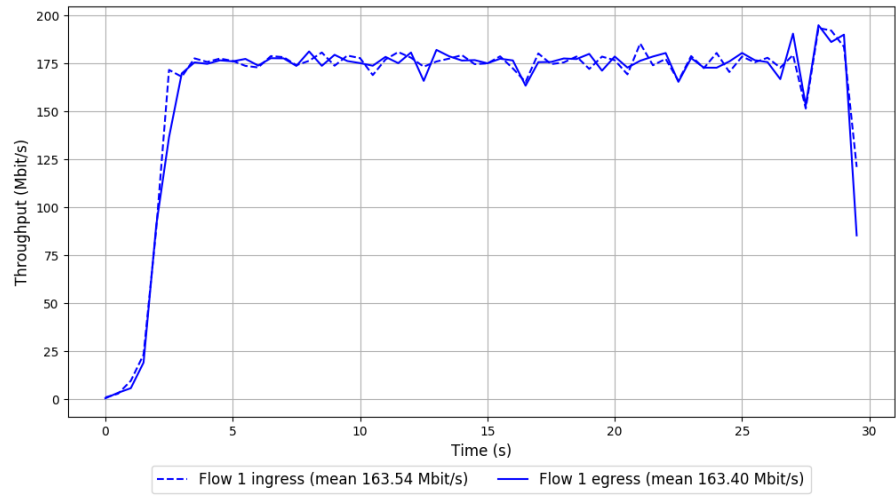


```
Run 3: Statistics of Indigo-calib

Start at: 2017-09-21 09:46:11
End at: 2017-09-21 09:46:41

# Below is generated by plot.py at 2017-09-21 13:35:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 163.40 Mbit/s
95th percentile per-packet one-way delay: 116.016 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 163.40 Mbit/s
95th percentile per-packet one-way delay: 116.016 ms
Loss rate: 0.69%
```

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-09-21 09:56:39

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

Below is generated by plot.py at 2017-09-21 13:35:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.69 Mbit/s

95th percentile per-packet one-way delay: 116.004 ms

Loss rate: 0.69%

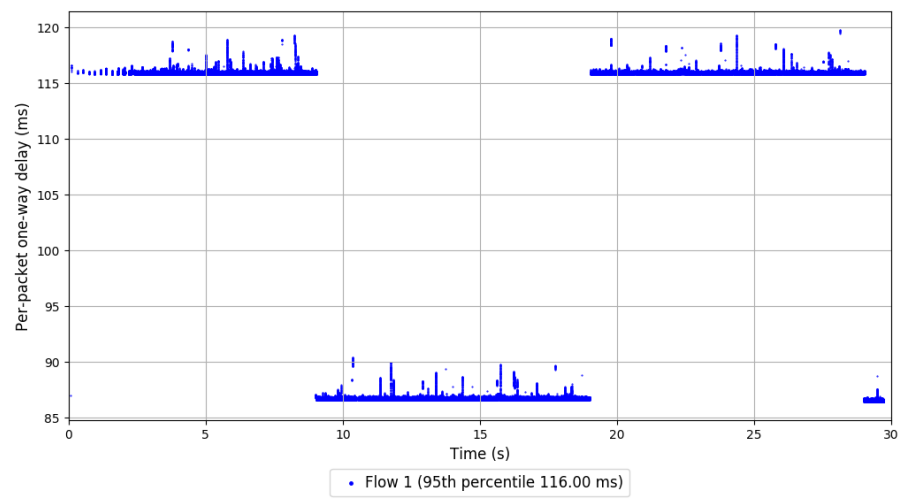
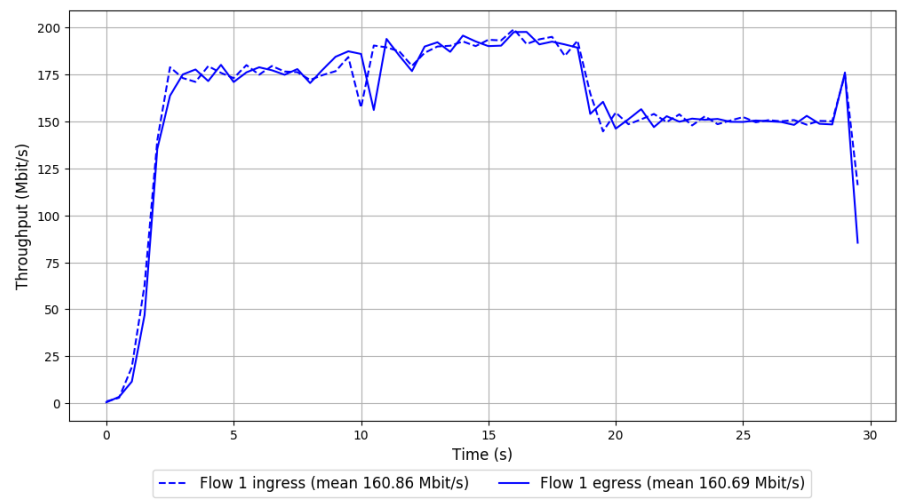
-- Flow 1:

Average throughput: 160.69 Mbit/s

95th percentile per-packet one-way delay: 116.004 ms

Loss rate: 0.69%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-09-21 10:07:53

End at: 2017-09-21 10:08:23

Below is generated by plot.py at 2017-09-21 13:37:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.77 Mbit/s

95th percentile per-packet one-way delay: 86.596 ms

Loss rate: 0.65%

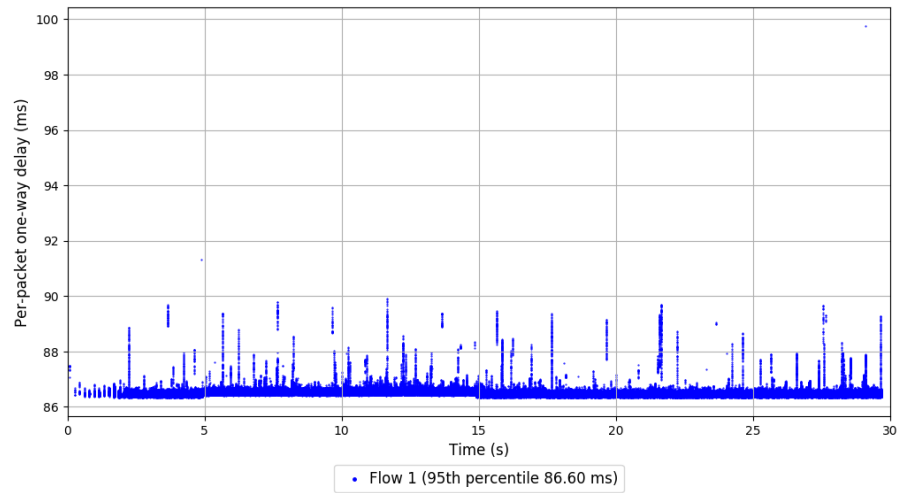
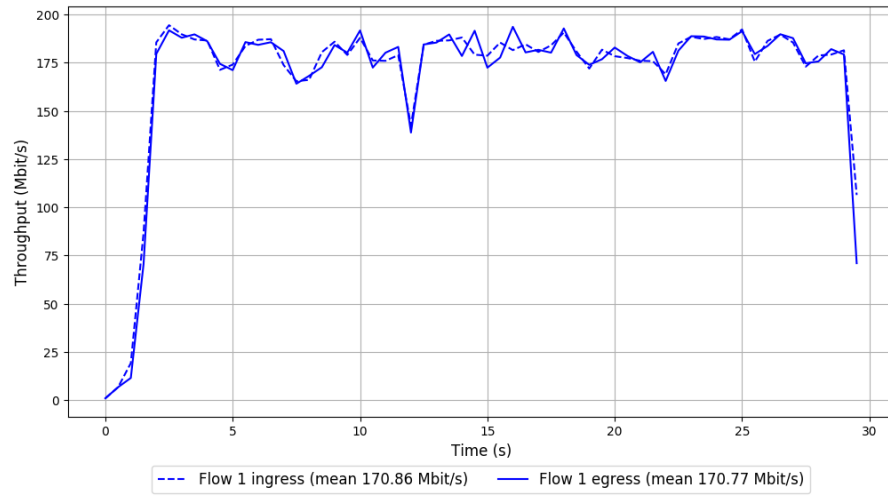
-- Flow 1:

Average throughput: 170.77 Mbit/s

95th percentile per-packet one-way delay: 86.596 ms

Loss rate: 0.65%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-09-21 10:18:52

End at: 2017-09-21 10:19:22

Below is generated by plot.py at 2017-09-21 13:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.38 Mbit/s

95th percentile per-packet one-way delay: 86.548 ms

Loss rate: 0.68%

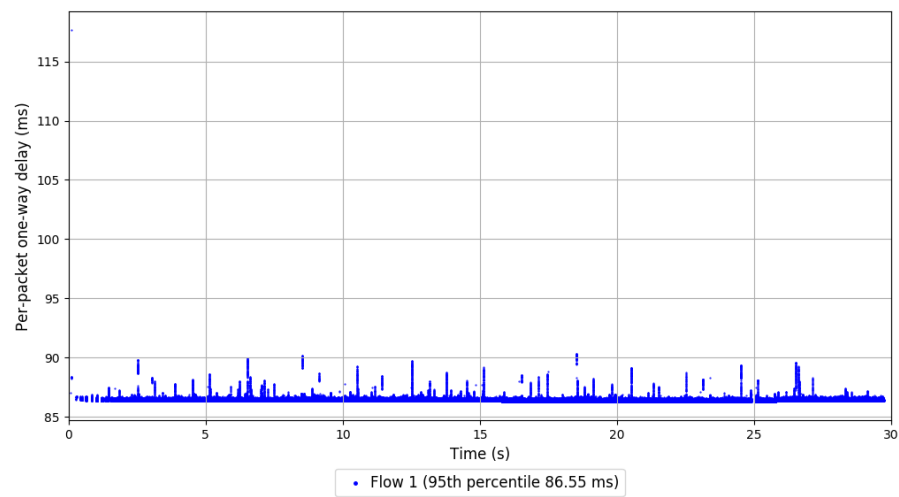
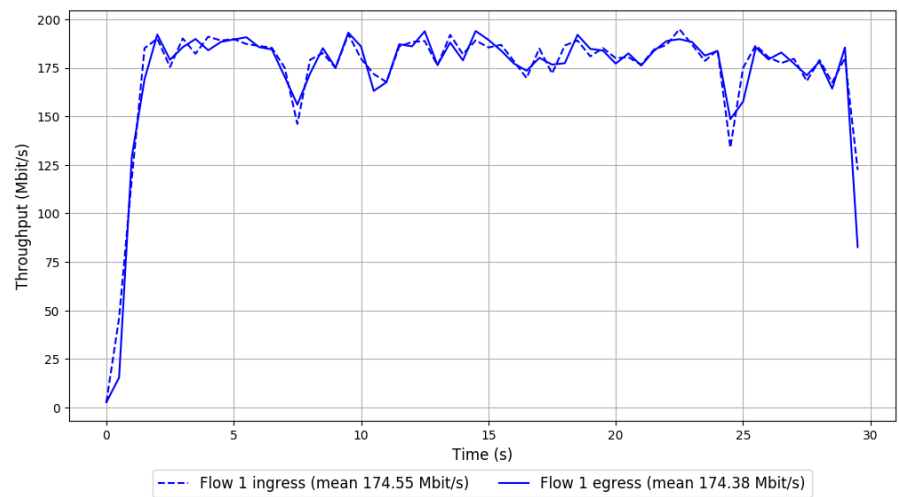
-- Flow 1:

Average throughput: 174.38 Mbit/s

95th percentile per-packet one-way delay: 86.548 ms

Loss rate: 0.68%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-09-21 10:29:50

End at: 2017-09-21 10:30:20

Below is generated by plot.py at 2017-09-21 13:37:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.27 Mbit/s

95th percentile per-packet one-way delay: 86.943 ms

Loss rate: 0.65%

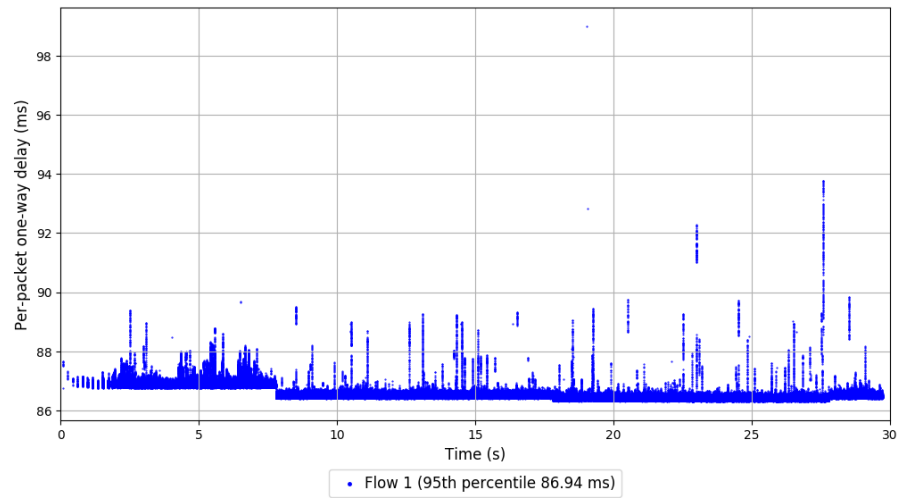
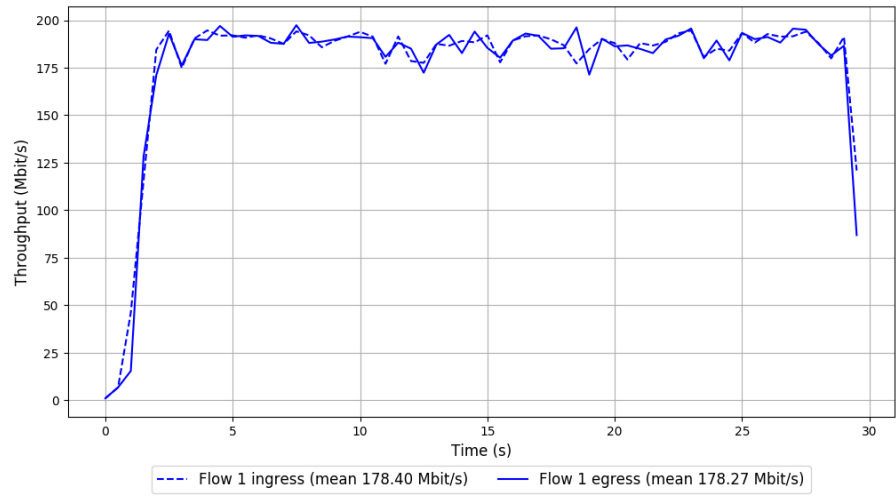
-- Flow 1:

Average throughput: 178.27 Mbit/s

95th percentile per-packet one-way delay: 86.943 ms

Loss rate: 0.65%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

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

End at: 2017-09-21 10:41:19

Below is generated by plot.py at 2017-09-21 13:37:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.67 Mbit/s

95th percentile per-packet one-way delay: 86.627 ms

Loss rate: 0.70%

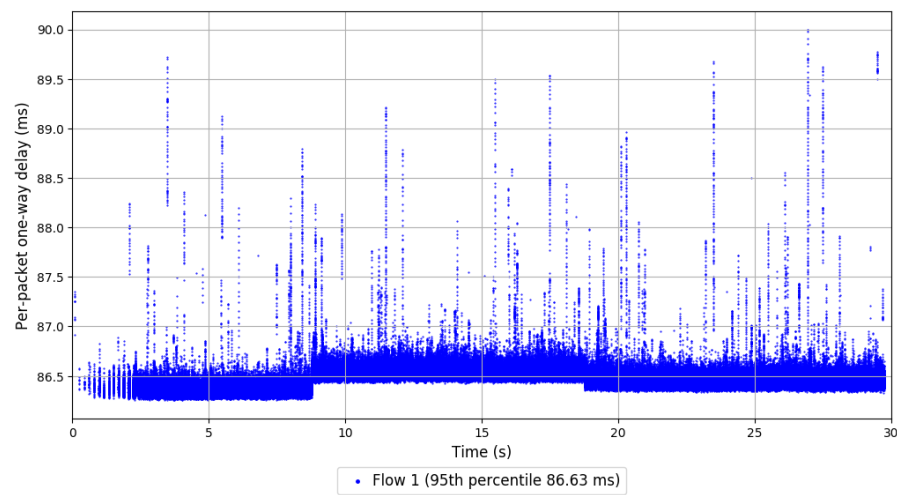
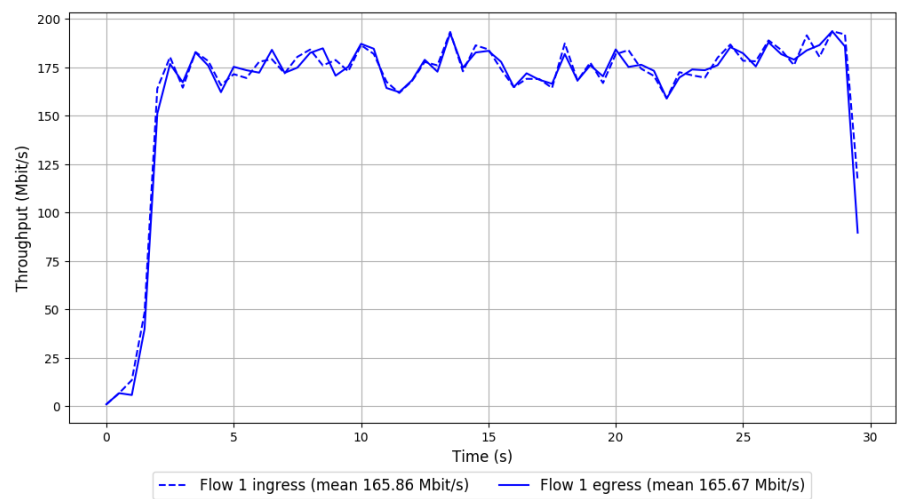
-- Flow 1:

Average throughput: 165.67 Mbit/s

95th percentile per-packet one-way delay: 86.627 ms

Loss rate: 0.70%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-09-21 10:51:33

End at: 2017-09-21 10:52:03

Below is generated by plot.py at 2017-09-21 13:38:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.80 Mbit/s

95th percentile per-packet one-way delay: 117.490 ms

Loss rate: 0.65%

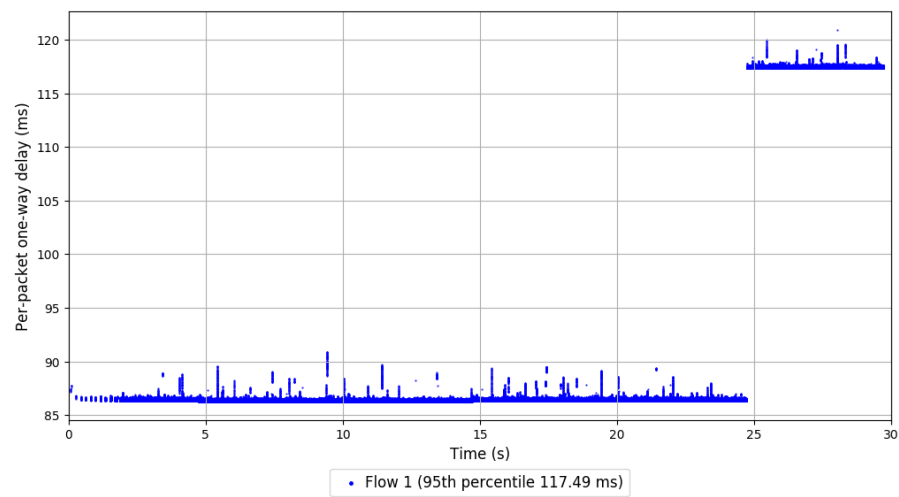
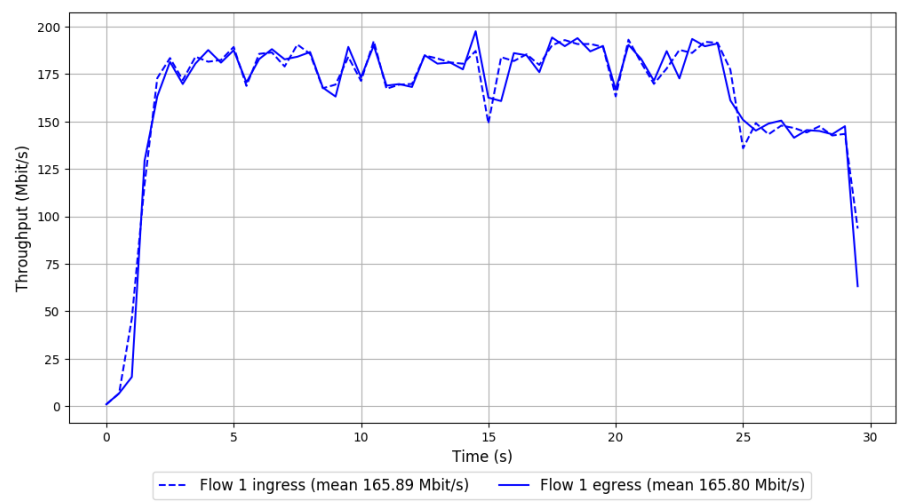
-- Flow 1:

Average throughput: 165.80 Mbit/s

95th percentile per-packet one-way delay: 117.490 ms

Loss rate: 0.65%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-09-21 11:02:28

End at: 2017-09-21 11:02:58

Below is generated by plot.py at 2017-09-21 13:38:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 159.66 Mbit/s

95th percentile per-packet one-way delay: 117.520 ms

Loss rate: 0.62%

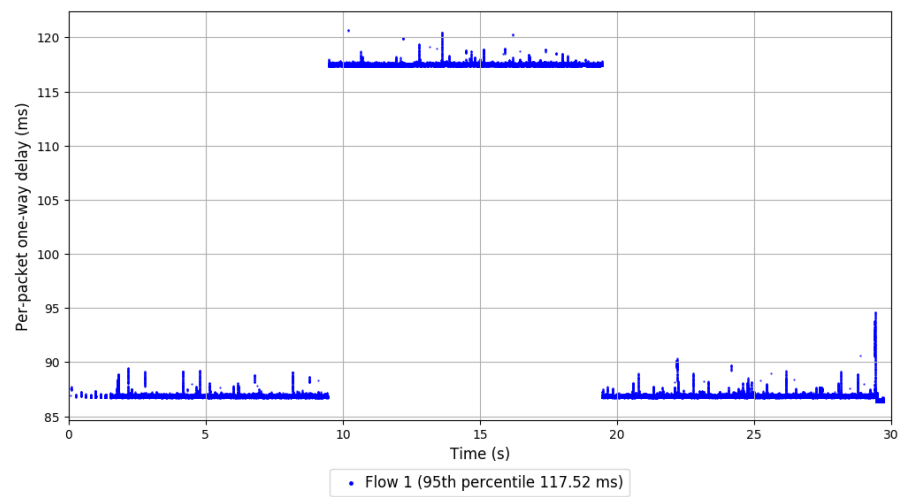
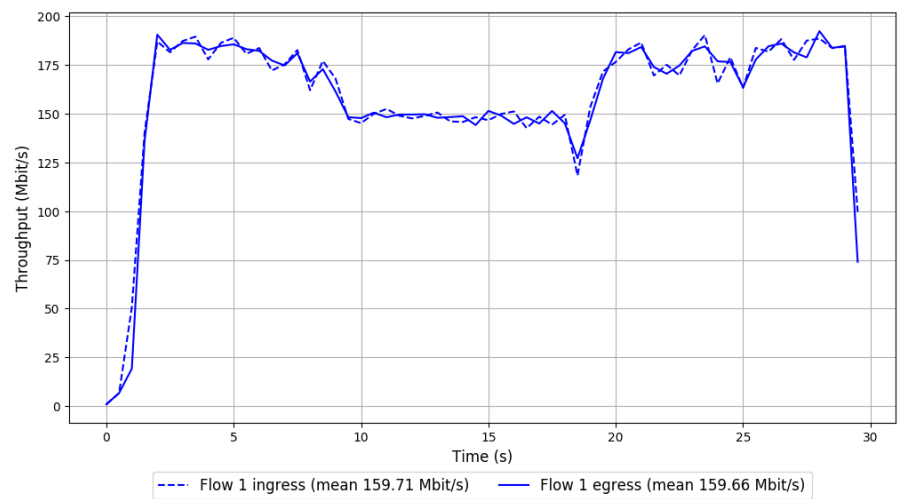
-- Flow 1:

Average throughput: 159.66 Mbit/s

95th percentile per-packet one-way delay: 117.520 ms

Loss rate: 0.62%

Run 10: Report of Indigo-calib — Data Link

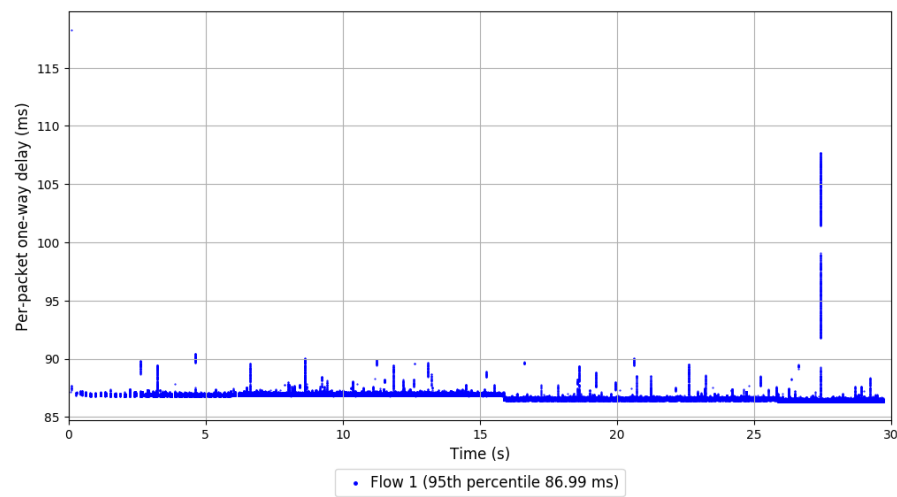
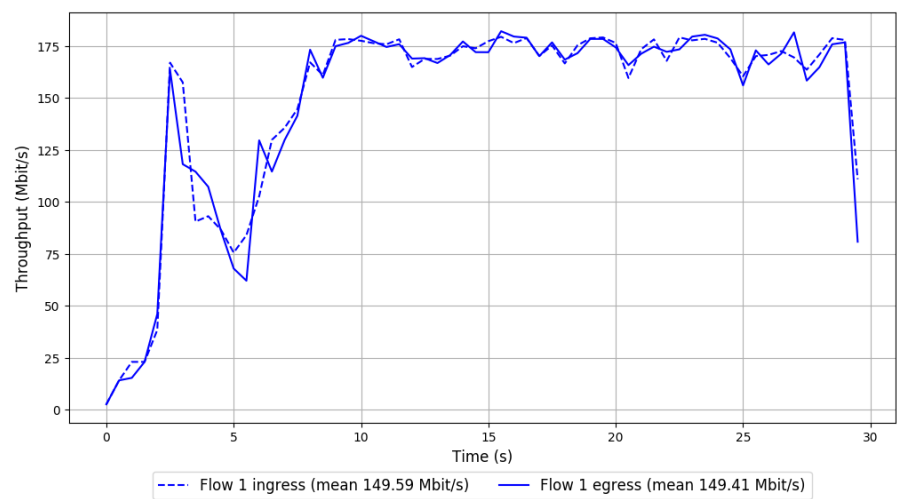


```
Run 1: Statistics of Indigo-delay

Start at: 2017-09-21 09:26:22
End at: 2017-09-21 09:26:52

# Below is generated by plot.py at 2017-09-21 13:38:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 149.41 Mbit/s
95th percentile per-packet one-way delay: 86.988 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 149.41 Mbit/s
95th percentile per-packet one-way delay: 86.988 ms
Loss rate: 0.72%
```

Run 1: Report of Indigo-delay — Data Link

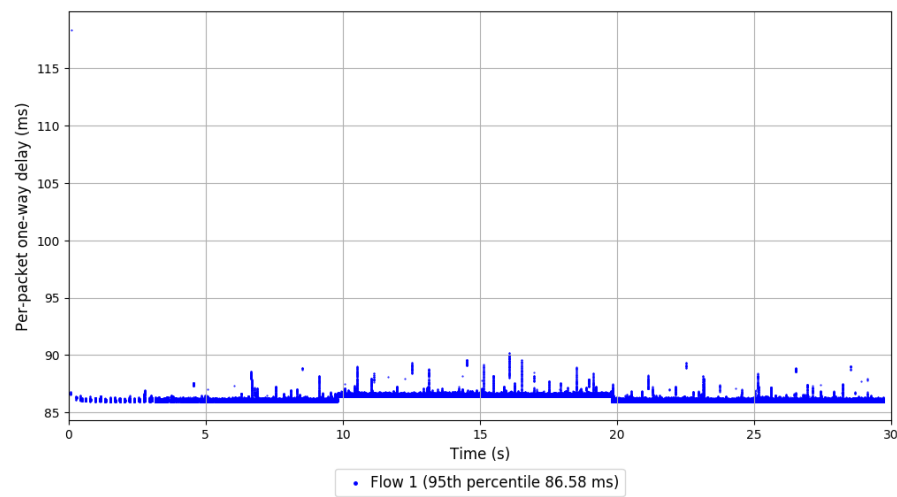
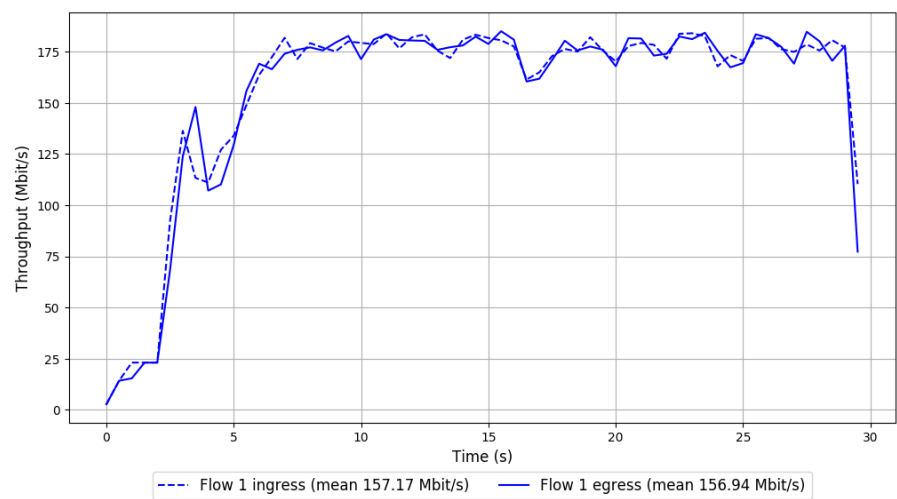


```
Run 2: Statistics of Indigo-delay

Start at: 2017-09-21 09:37:48
End at: 2017-09-21 09:38:18

# Below is generated by plot.py at 2017-09-21 13:38:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 156.94 Mbit/s
95th percentile per-packet one-way delay: 86.576 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 156.94 Mbit/s
95th percentile per-packet one-way delay: 86.576 ms
Loss rate: 0.74%
```

Run 2: Report of Indigo-delay — Data Link



Run 3: Statistics of Indigo-delay

Start at: 2017-09-21 09:48:38

End at: 2017-09-21 09:49:08

Below is generated by plot.py at 2017-09-21 13:38:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.72 Mbit/s

95th percentile per-packet one-way delay: 116.075 ms

Loss rate: 0.35%

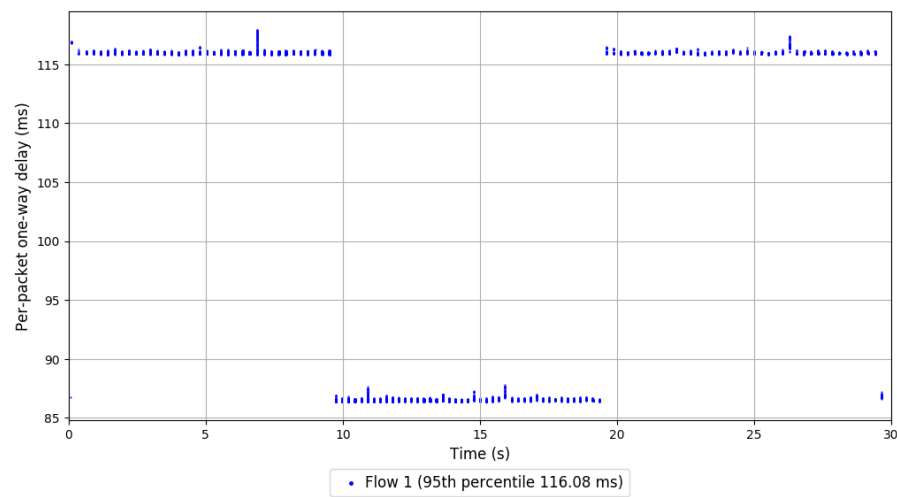
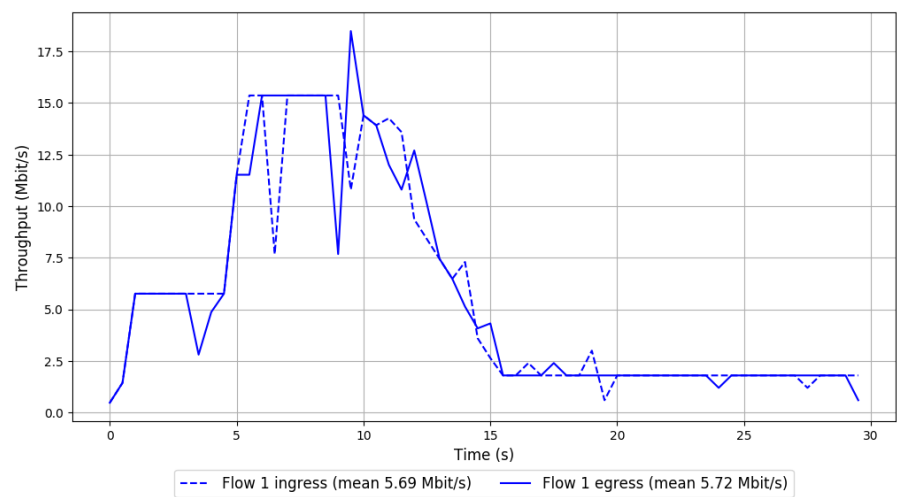
-- Flow 1:

Average throughput: 5.72 Mbit/s

95th percentile per-packet one-way delay: 116.075 ms

Loss rate: 0.35%

Run 3: Report of Indigo-delay — Data Link



Run 4: Statistics of Indigo-delay

Start at: 2017-09-21 09:59:26

End at: 2017-09-21 09:59:56

Below is generated by plot.py at 2017-09-21 13:38:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.89 Mbit/s

95th percentile per-packet one-way delay: 116.114 ms

Loss rate: 0.11%

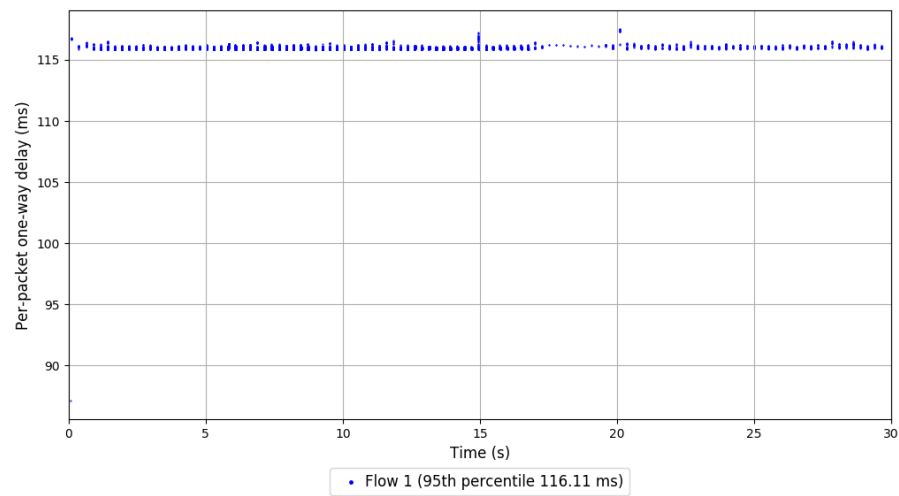
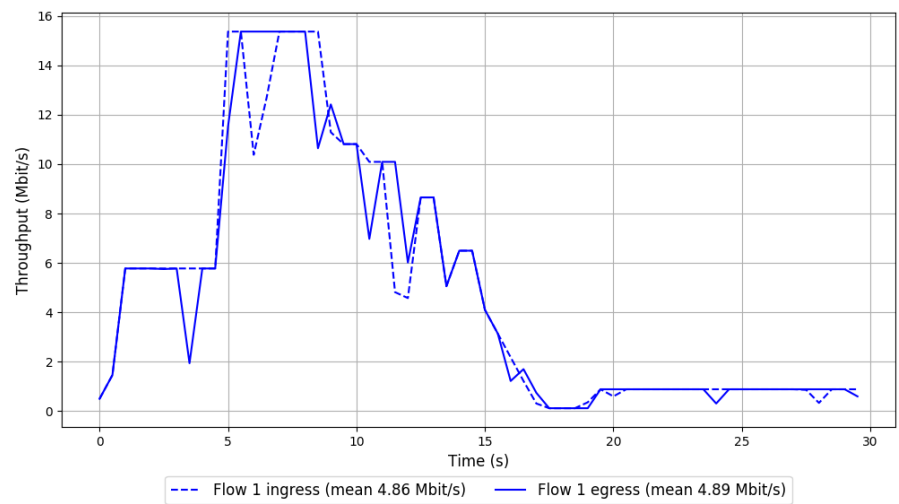
-- Flow 1:

Average throughput: 4.89 Mbit/s

95th percentile per-packet one-way delay: 116.114 ms

Loss rate: 0.11%

Run 4: Report of Indigo-delay — Data Link



Run 5: Statistics of Indigo-delay

Start at: 2017-09-21 10:10:47

End at: 2017-09-21 10:11:17

Below is generated by plot.py at 2017-09-21 13:39:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 113.32 Mbit/s

95th percentile per-packet one-way delay: 86.730 ms

Loss rate: 0.93%

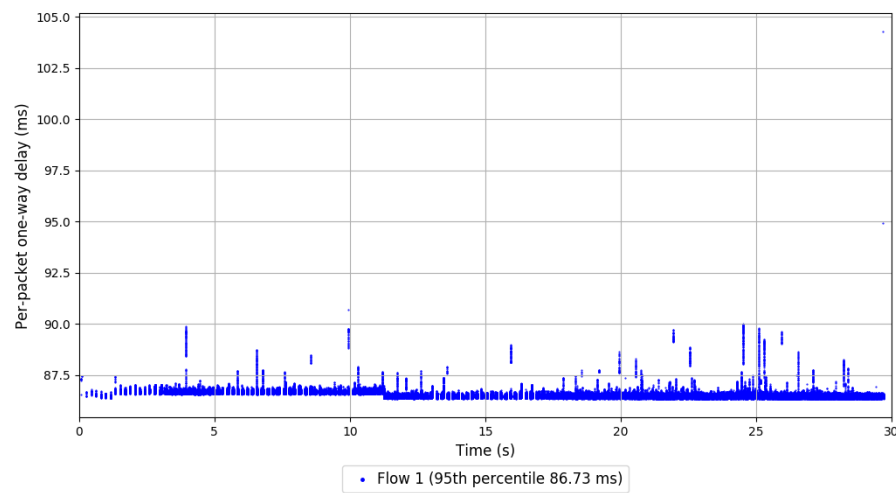
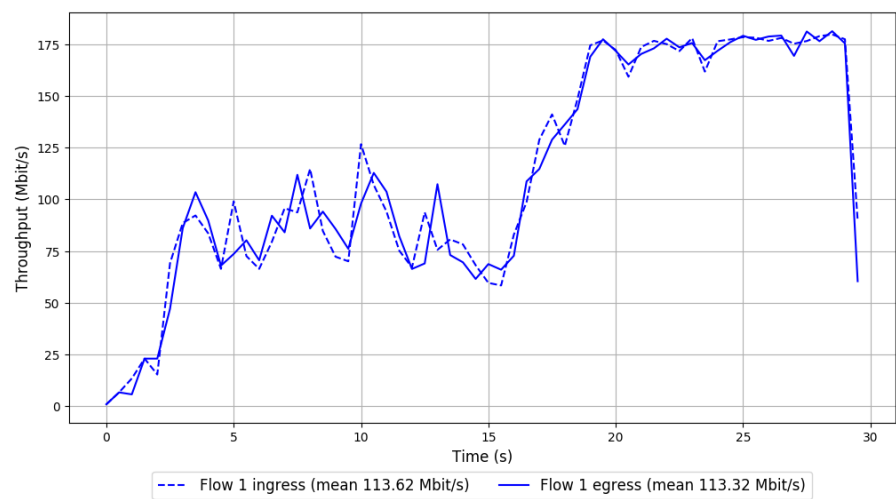
-- Flow 1:

Average throughput: 113.32 Mbit/s

95th percentile per-packet one-way delay: 86.730 ms

Loss rate: 0.93%

Run 5: Report of Indigo-delay — Data Link



Run 6: Statistics of Indigo-delay

Start at: 2017-09-21 10:21:39

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

Below is generated by plot.py at 2017-09-21 13:39:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.68 Mbit/s

95th percentile per-packet one-way delay: 86.641 ms

Loss rate: 0.69%

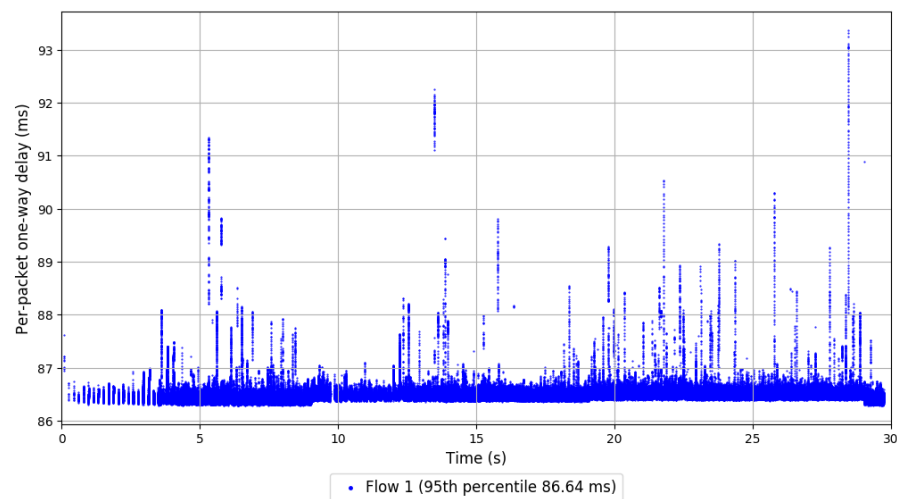
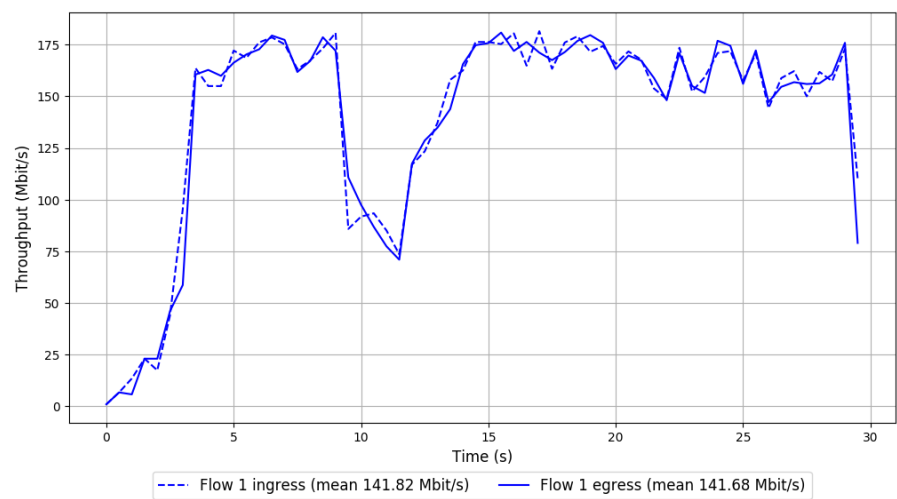
-- Flow 1:

Average throughput: 141.68 Mbit/s

95th percentile per-packet one-way delay: 86.641 ms

Loss rate: 0.69%

Run 6: Report of Indigo-delay — Data Link



Run 7: Statistics of Indigo-delay

Start at: 2017-09-21 10:32:39

End at: 2017-09-21 10:33:09

Below is generated by plot.py at 2017-09-21 13:39:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.89 Mbit/s

95th percentile per-packet one-way delay: 86.551 ms

Loss rate: 0.42%

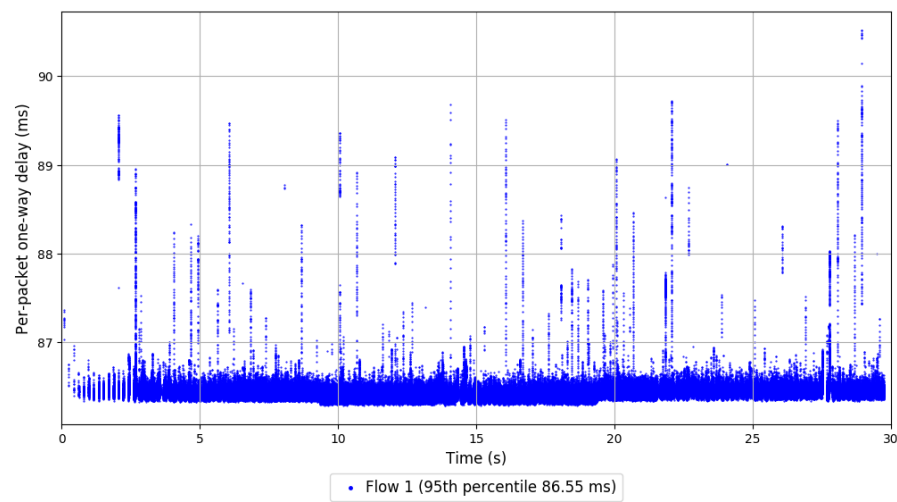
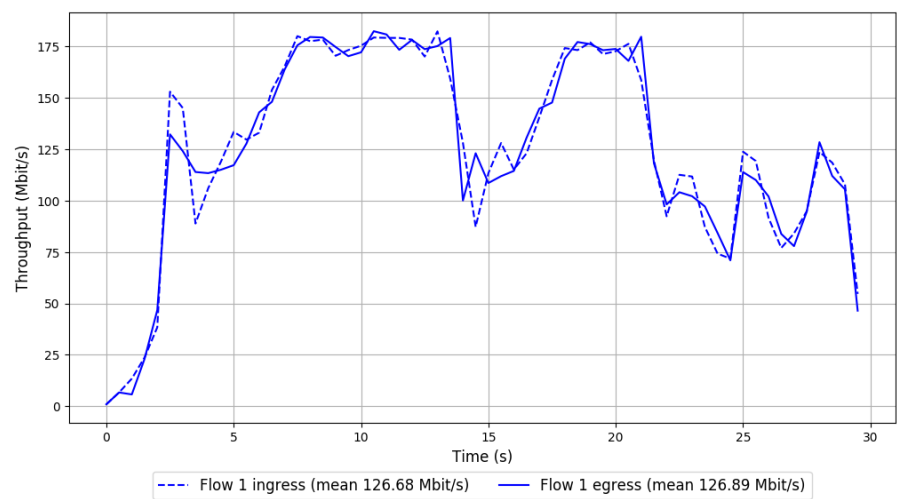
-- Flow 1:

Average throughput: 126.89 Mbit/s

95th percentile per-packet one-way delay: 86.551 ms

Loss rate: 0.42%

Run 7: Report of Indigo-delay — Data Link



Run 8: Statistics of Indigo-delay

Start at: 2017-09-21 10:43:35

End at: 2017-09-21 10:44:05

Below is generated by plot.py at 2017-09-21 13:39:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.61 Mbit/s

95th percentile per-packet one-way delay: 117.546 ms

Loss rate: 0.71%

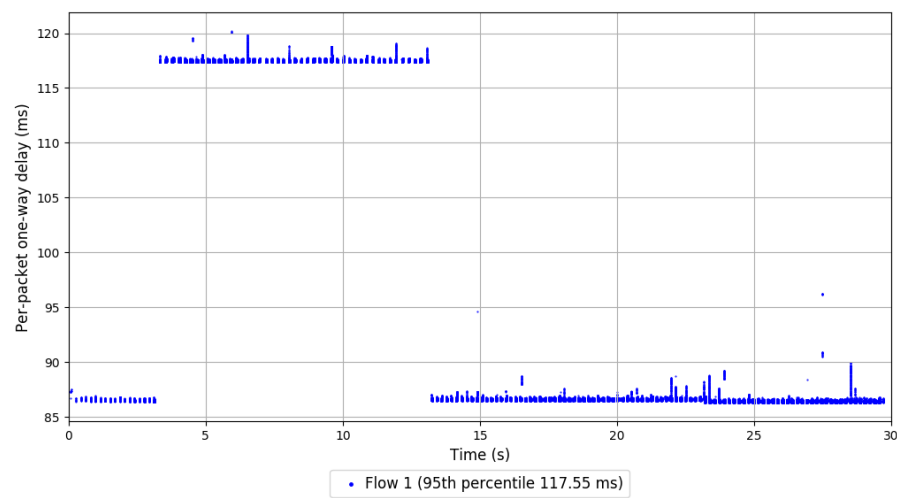
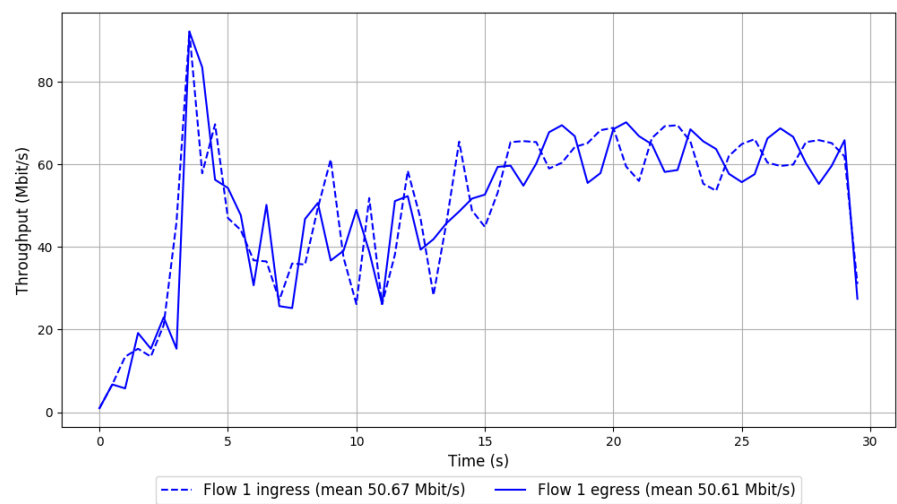
-- Flow 1:

Average throughput: 50.61 Mbit/s

95th percentile per-packet one-way delay: 117.546 ms

Loss rate: 0.71%

Run 8: Report of Indigo-delay — Data Link



Run 9: Statistics of Indigo-delay

Start at: 2017-09-21 10:54:21

End at: 2017-09-21 10:54:51

Below is generated by plot.py at 2017-09-21 13:39:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.44 Mbit/s

95th percentile per-packet one-way delay: 86.913 ms

Loss rate: 0.65%

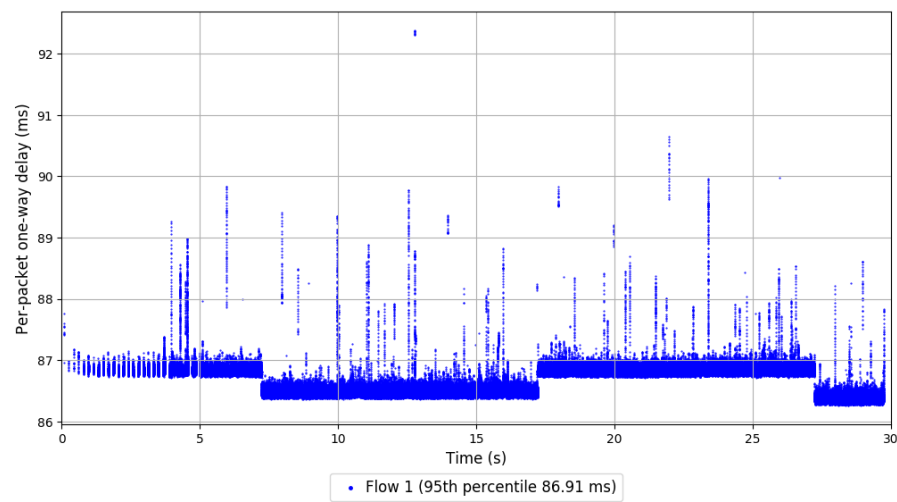
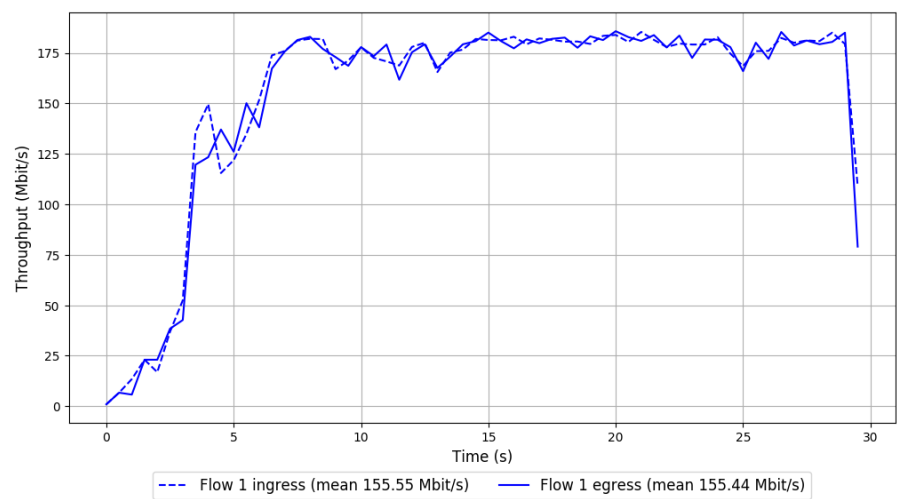
-- Flow 1:

Average throughput: 155.44 Mbit/s

95th percentile per-packet one-way delay: 86.913 ms

Loss rate: 0.65%

Run 9: Report of Indigo-delay — Data Link



Run 10: Statistics of Indigo-delay

Start at: 2017-09-21 11:05:23

End at: 2017-09-21 11:05:53

Below is generated by plot.py at 2017-09-21 13:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.68 Mbit/s

95th percentile per-packet one-way delay: 86.578 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 151.68 Mbit/s

95th percentile per-packet one-way delay: 86.578 ms

Loss rate: 0.70%

Run 10: Report of Indigo-delay — Data Link

