

Pantheon Report

Generated at 2017-09-21 19:37:57 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

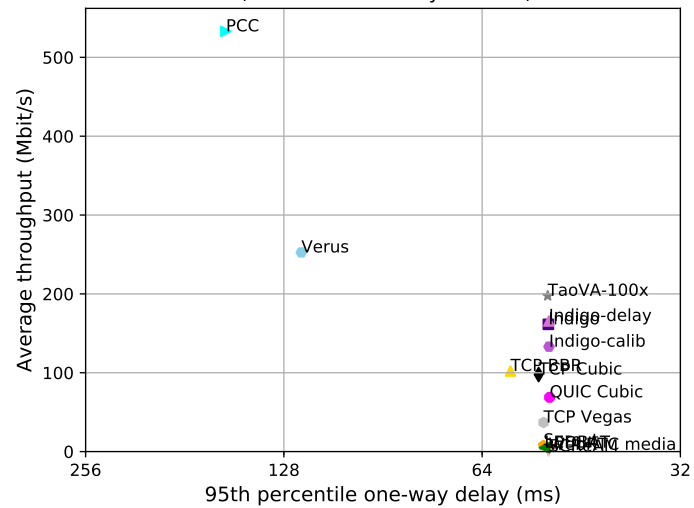
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

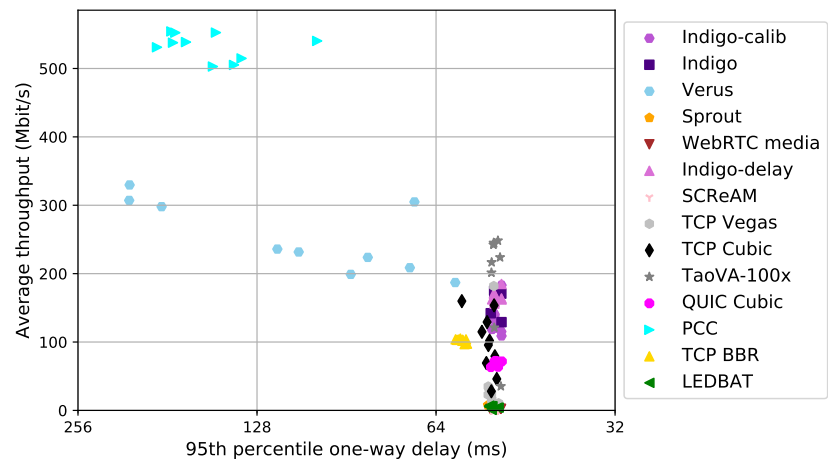
Git summary:

```
branch: indigos @ 46c7c812d4acb71eea4f5fb0b03b3657cea3062f
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fab936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	102.22	57.96	0.31
TCP Cubic	10	97.74	52.53	0.14
LEDBAT	10	4.96	51.48	0.57
PCC	10	532.96	156.73	0.47
QUIC Cubic	10	68.80	50.55	0.00
SCReAM	10	0.22	50.76	0.00
WebRTC media	10	2.27	50.74	0.00
Sprout	10	7.75	51.67	0.89
TaoVA-100x	9	197.60	50.89	0.03
TCP Vegas	10	36.91	51.63	0.50
Verus	10	252.56	120.42	0.39
Indigo	7	161.38	50.77	0.01
Indigo-calib	9	133.04	50.66	0.08
Indigo-delay	10	165.65	50.69	0.00

Run 1: Statistics of TCP BBR

Start at: 2017-09-21 16:12:07

End at: 2017-09-21 16:12:37

Below is generated by plot.py at 2017-09-21 18:53:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 105.09 Mbit/s

95th percentile per-packet one-way delay: 58.252 ms

Loss rate: 0.32%

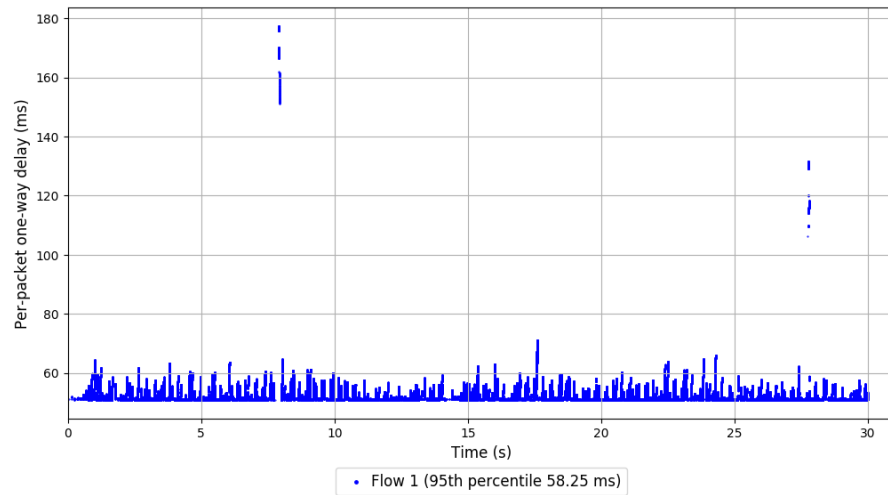
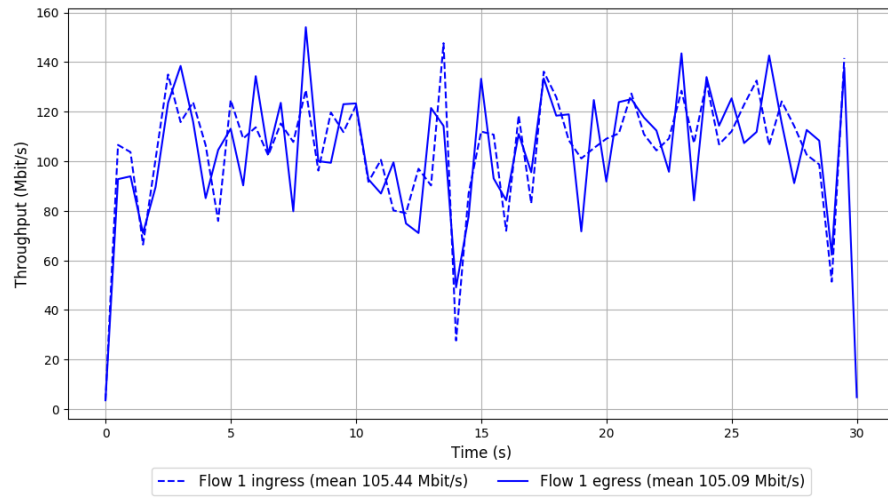
-- Flow 1:

Average throughput: 105.09 Mbit/s

95th percentile per-packet one-way delay: 58.252 ms

Loss rate: 0.32%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-09-21 16:22:36

End at: 2017-09-21 16:23:06

Below is generated by plot.py at 2017-09-21 18:53:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.58 Mbit/s

95th percentile per-packet one-way delay: 56.782 ms

Loss rate: 0.48%

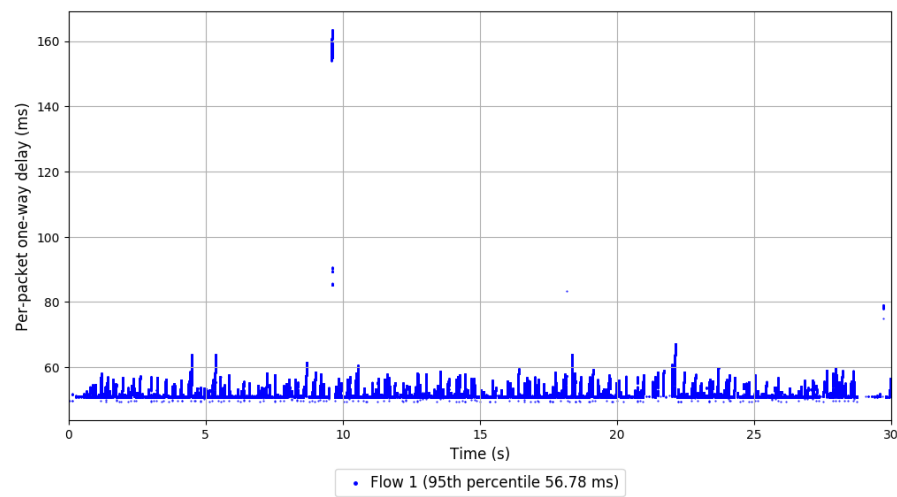
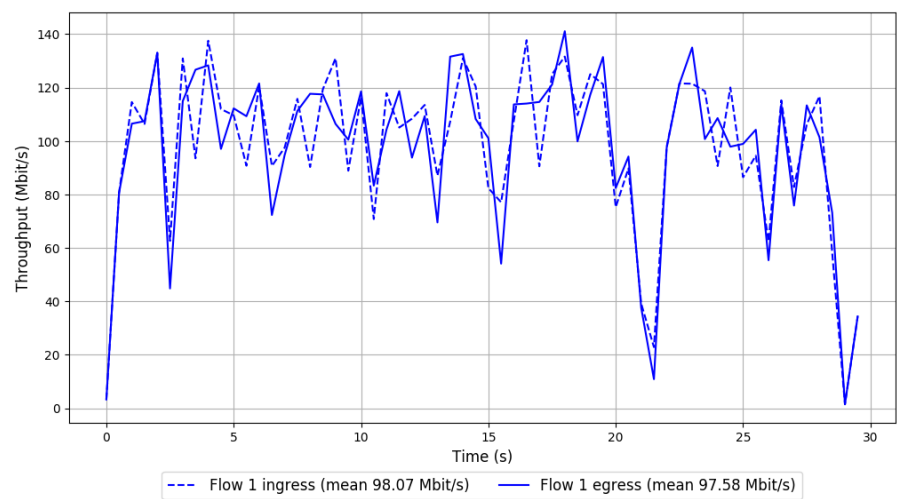
-- Flow 1:

Average throughput: 97.58 Mbit/s

95th percentile per-packet one-way delay: 56.782 ms

Loss rate: 0.48%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-09-21 16:33:06

End at: 2017-09-21 16:33:36

Below is generated by plot.py at 2017-09-21 18:53:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.94 Mbit/s

95th percentile per-packet one-way delay: 59.331 ms

Loss rate: 0.10%

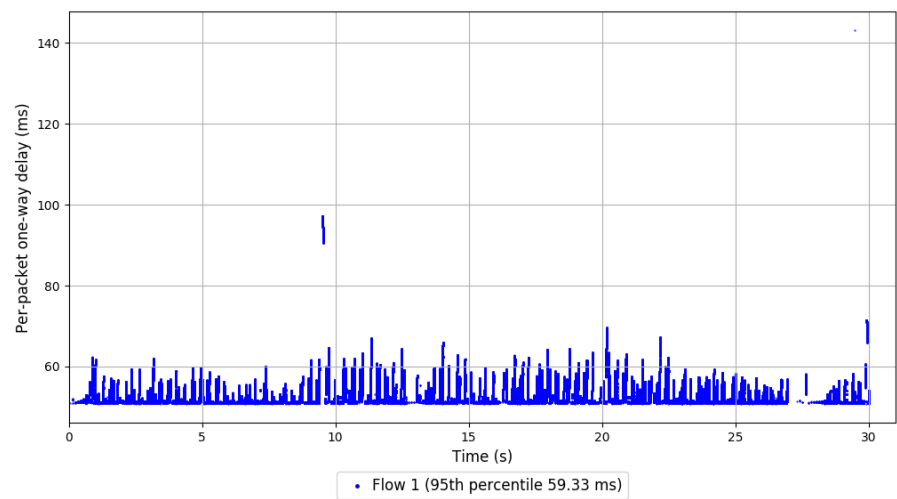
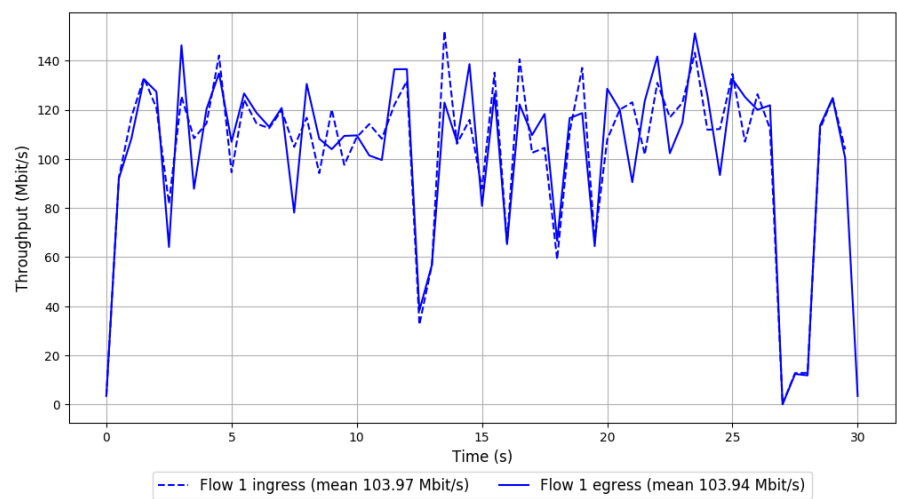
-- Flow 1:

Average throughput: 103.94 Mbit/s

95th percentile per-packet one-way delay: 59.331 ms

Loss rate: 0.10%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-09-21 16:43:24

End at: 2017-09-21 16:43:54

Below is generated by plot.py at 2017-09-21 18:53:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.88 Mbit/s

95th percentile per-packet one-way delay: 57.783 ms

Loss rate: 0.04%

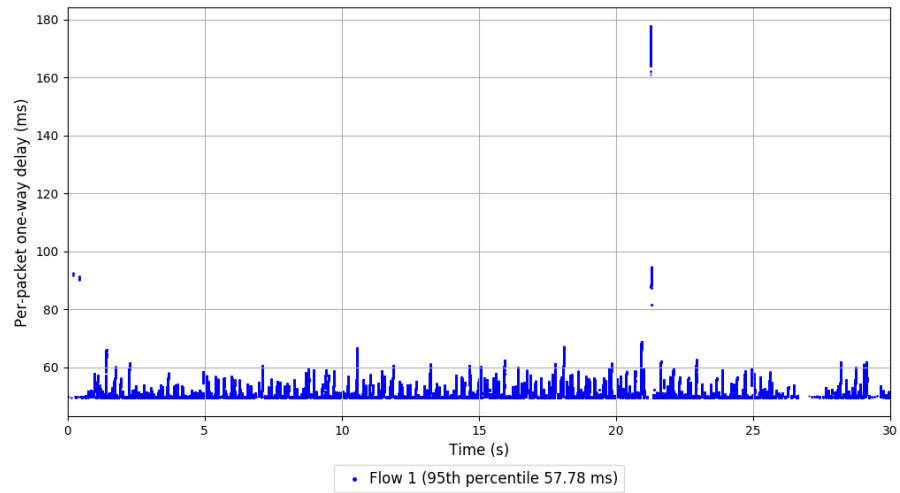
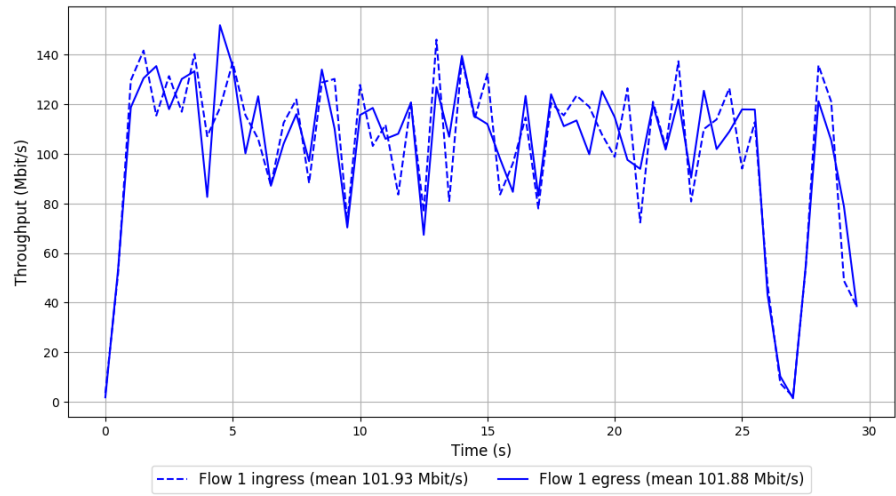
-- Flow 1:

Average throughput: 101.88 Mbit/s

95th percentile per-packet one-way delay: 57.783 ms

Loss rate: 0.04%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-09-21 16:54:52

End at: 2017-09-21 16:55:22

Below is generated by plot.py at 2017-09-21 18:53:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.79 Mbit/s

95th percentile per-packet one-way delay: 57.796 ms

Loss rate: 0.38%

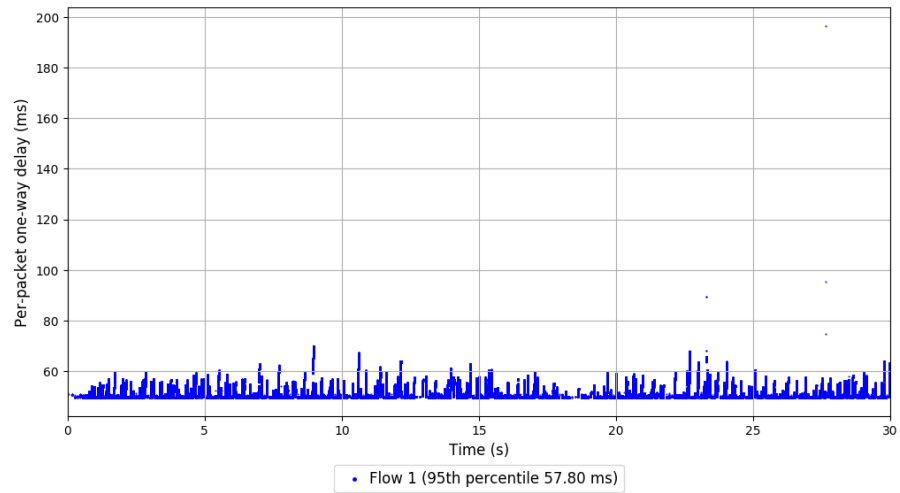
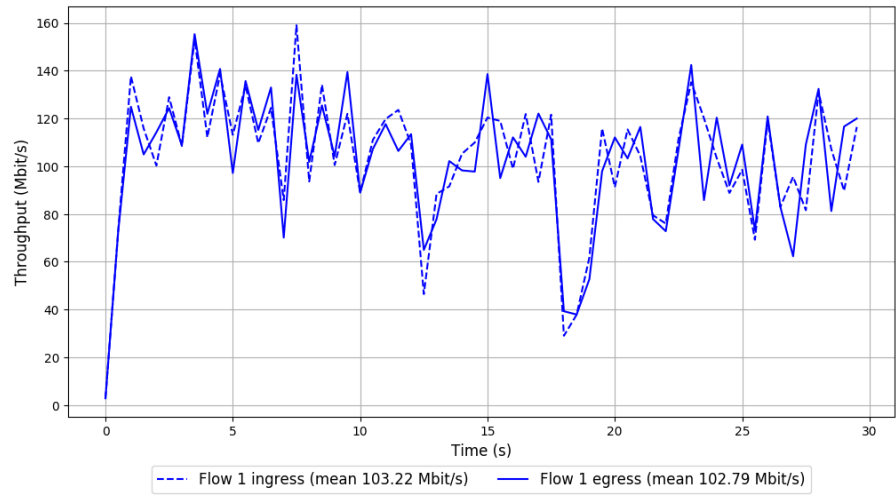
-- Flow 1:

Average throughput: 102.79 Mbit/s

95th percentile per-packet one-way delay: 57.796 ms

Loss rate: 0.38%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-09-21 17:05:27

End at: 2017-09-21 17:05:57

Below is generated by plot.py at 2017-09-21 18:53:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.89 Mbit/s

95th percentile per-packet one-way delay: 57.000 ms

Loss rate: 0.49%

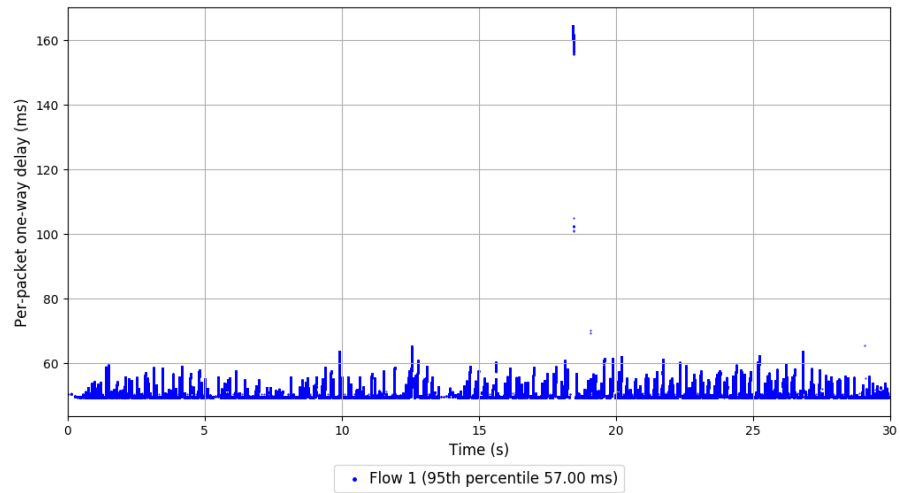
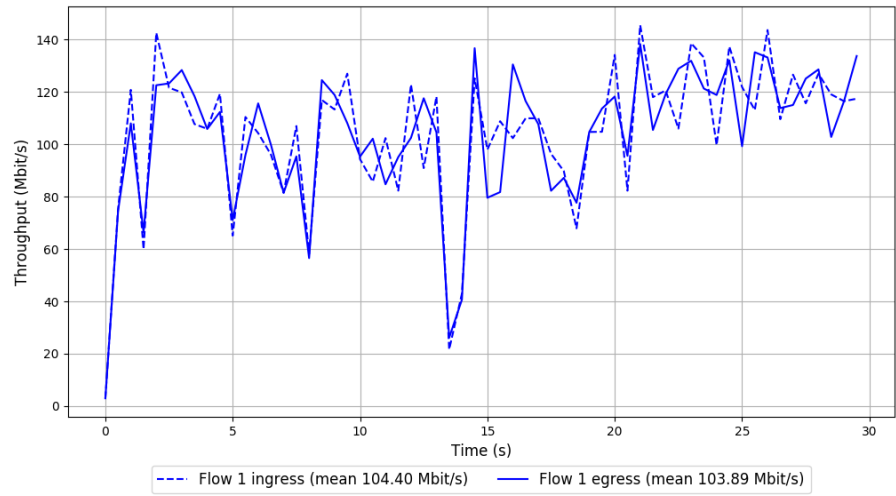
-- Flow 1:

Average throughput: 103.89 Mbit/s

95th percentile per-packet one-way delay: 57.000 ms

Loss rate: 0.49%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-09-21 17:16:15

End at: 2017-09-21 17:16:45

Below is generated by plot.py at 2017-09-21 18:53:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.54 Mbit/s

95th percentile per-packet one-way delay: 58.668 ms

Loss rate: 0.00%

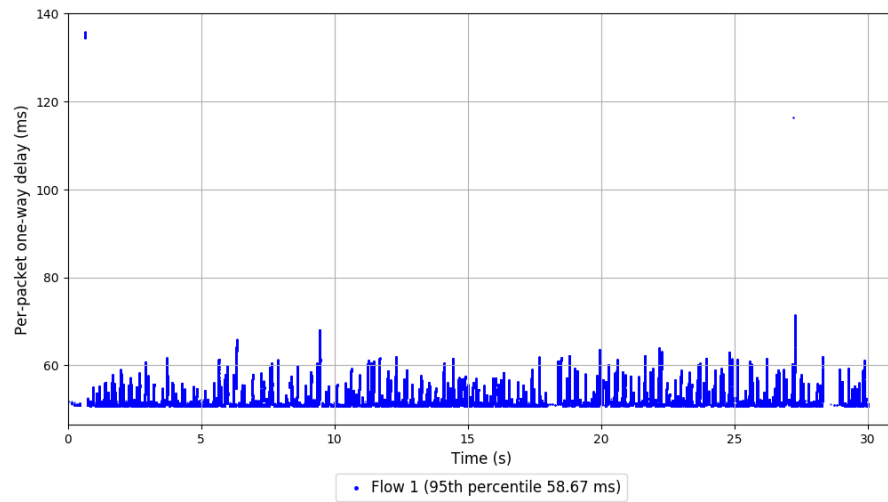
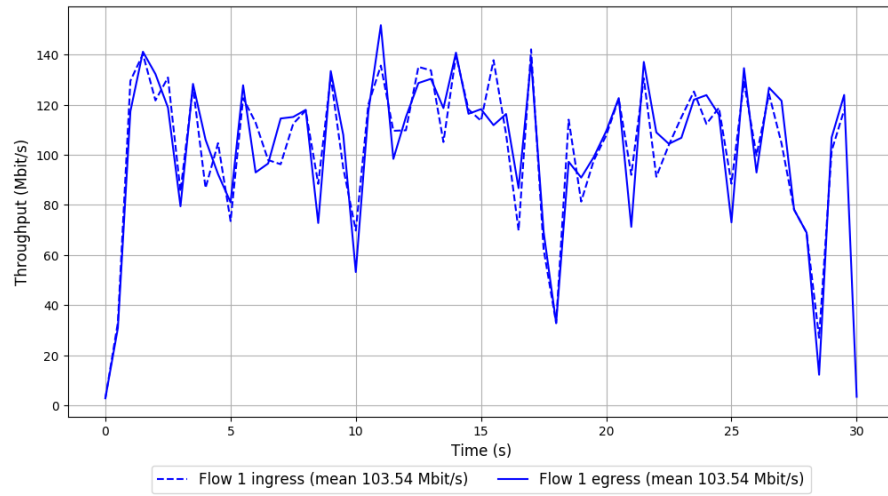
-- Flow 1:

Average throughput: 103.54 Mbit/s

95th percentile per-packet one-way delay: 58.668 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-09-21 17:26:46

End at: 2017-09-21 17:27:16

Below is generated by plot.py at 2017-09-21 18:53:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.17 Mbit/s

95th percentile per-packet one-way delay: 58.992 ms

Loss rate: 0.34%

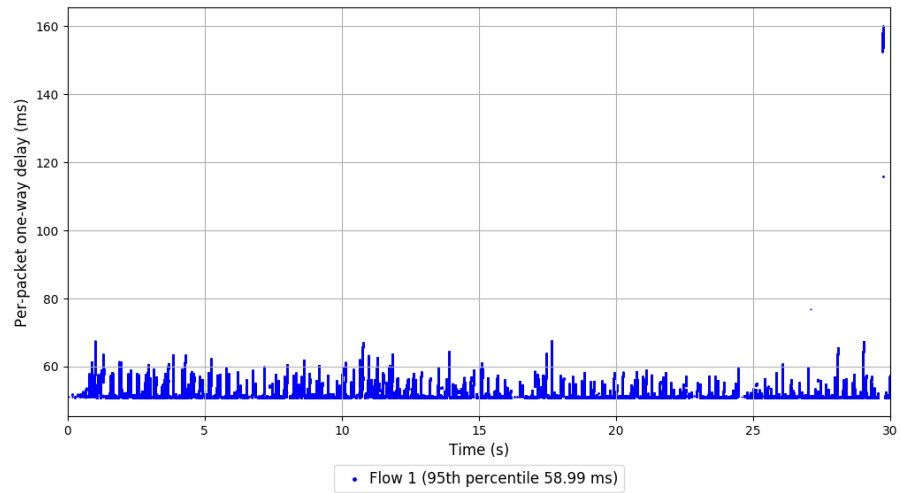
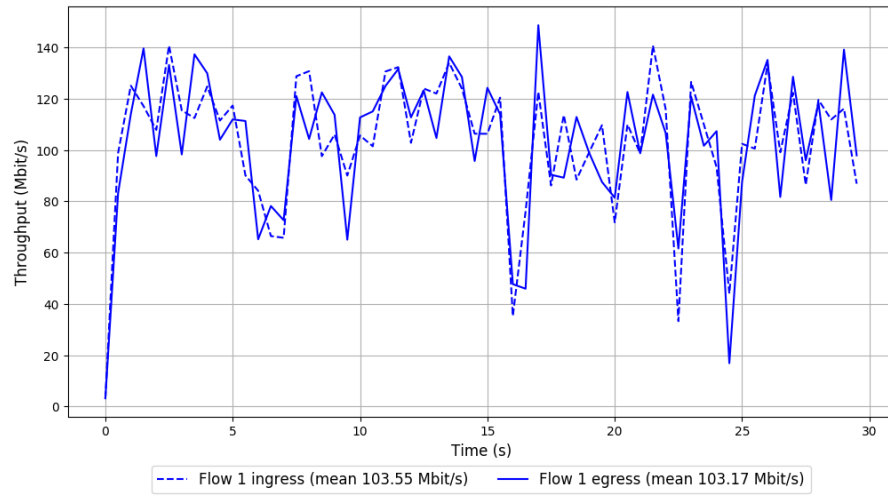
-- Flow 1:

Average throughput: 103.17 Mbit/s

95th percentile per-packet one-way delay: 58.992 ms

Loss rate: 0.34%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-09-21 17:37:07

End at: 2017-09-21 17:37:37

Below is generated by plot.py at 2017-09-21 18:55:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.95 Mbit/s

95th percentile per-packet one-way delay: 57.287 ms

Loss rate: 0.72%

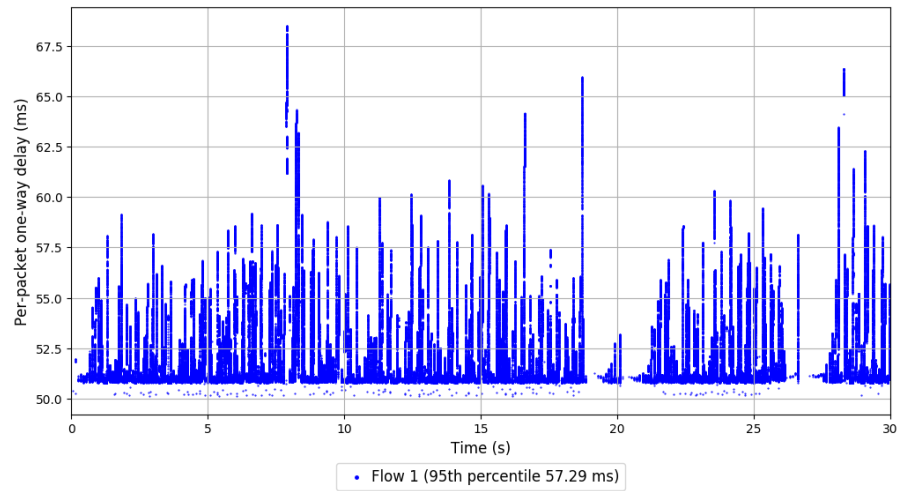
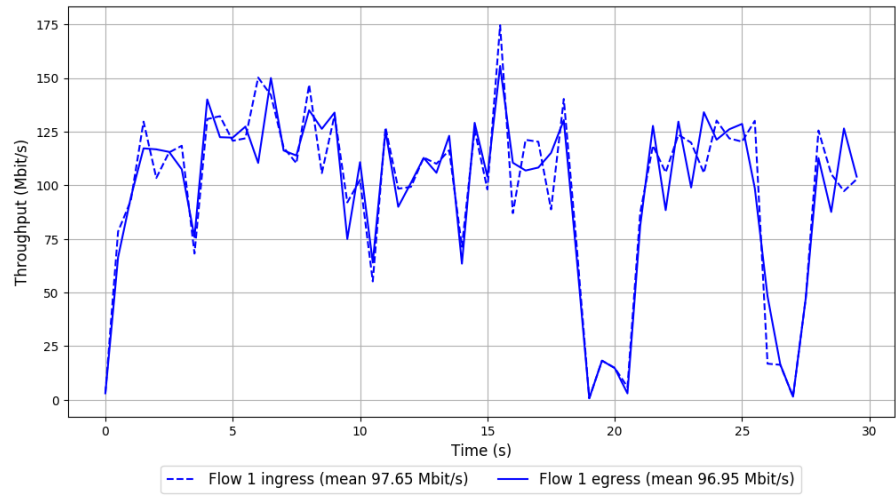
-- Flow 1:

Average throughput: 96.95 Mbit/s

95th percentile per-packet one-way delay: 57.287 ms

Loss rate: 0.72%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-09-21 17:47:16

End at: 2017-09-21 17:47:46

Below is generated by plot.py at 2017-09-21 18:55:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.35 Mbit/s

95th percentile per-packet one-way delay: 57.729 ms

Loss rate: 0.23%

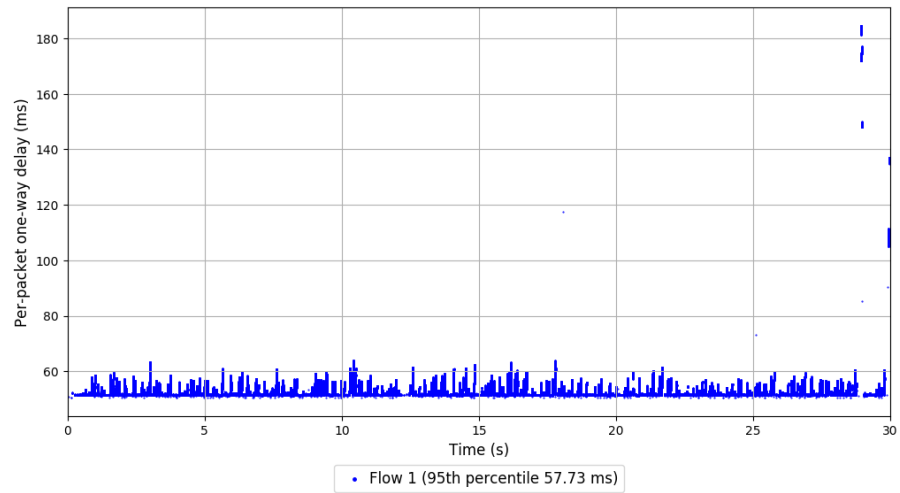
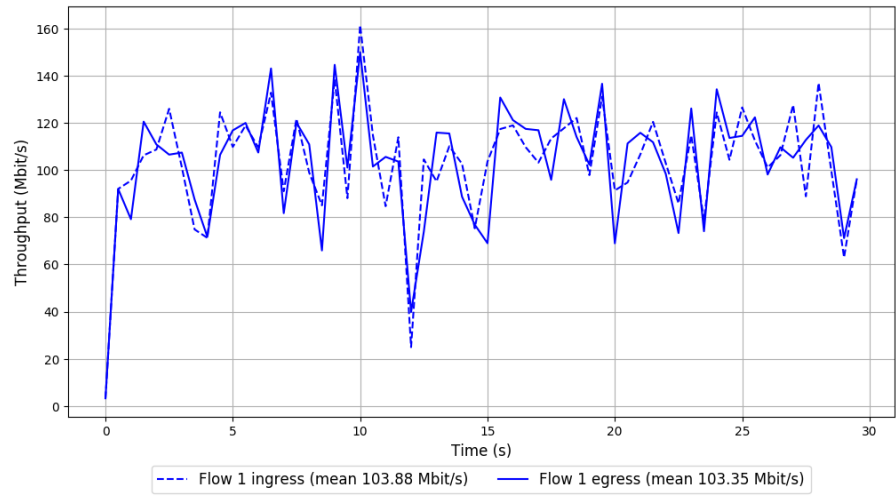
-- Flow 1:

Average throughput: 103.35 Mbit/s

95th percentile per-packet one-way delay: 57.729 ms

Loss rate: 0.23%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-09-21 16:10:35

End at: 2017-09-21 16:11:05

Below is generated by plot.py at 2017-09-21 18:56:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 114.95 Mbit/s

95th percentile per-packet one-way delay: 53.582 ms

Loss rate: 0.13%

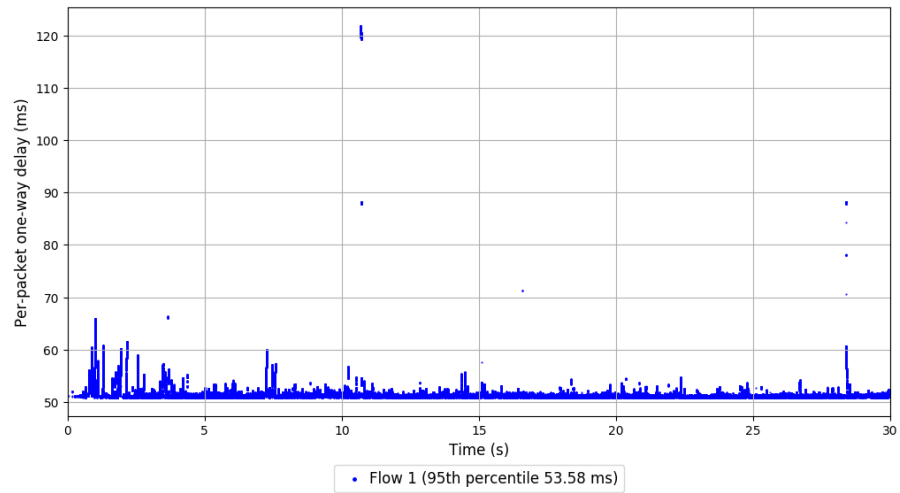
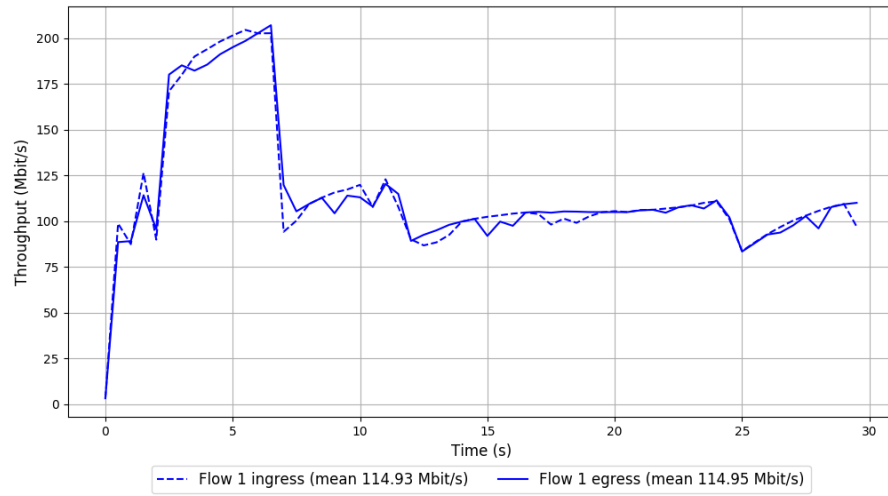
-- Flow 1:

Average throughput: 114.95 Mbit/s

95th percentile per-packet one-way delay: 53.582 ms

Loss rate: 0.13%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-09-21 16:21:03

End at: 2017-09-21 16:21:33

Below is generated by plot.py at 2017-09-21 18:56:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 129.16 Mbit/s

95th percentile per-packet one-way delay: 52.526 ms

Loss rate: 0.00%

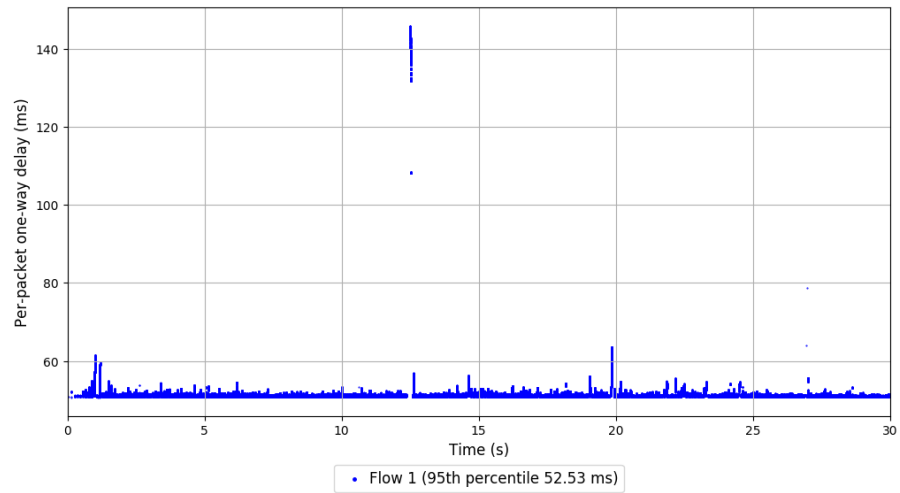
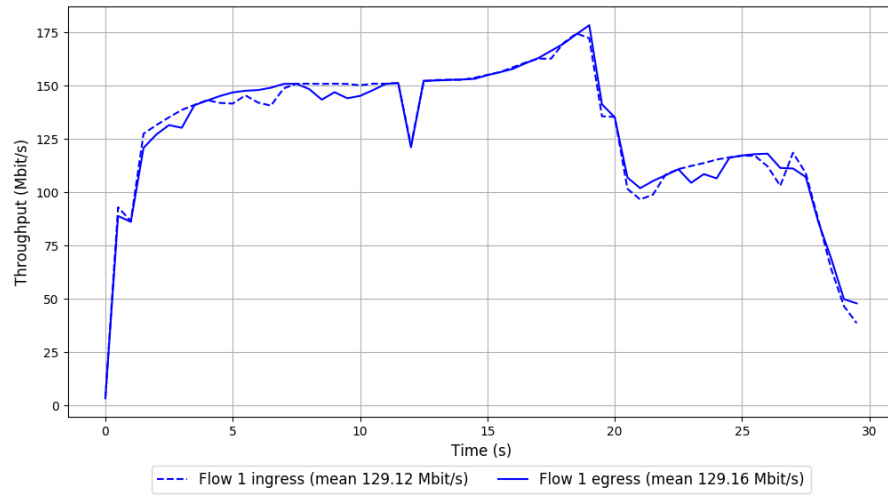
-- Flow 1:

Average throughput: 129.16 Mbit/s

95th percentile per-packet one-way delay: 52.526 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-09-21 16:31:31

End at: 2017-09-21 16:32:01

Below is generated by plot.py at 2017-09-21 18:57:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 159.80 Mbit/s

95th percentile per-packet one-way delay: 57.918 ms

Loss rate: 0.00%

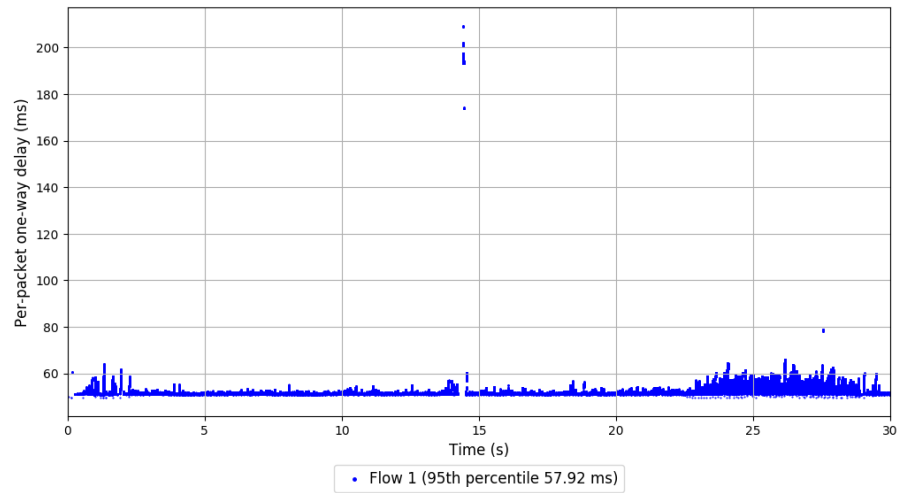
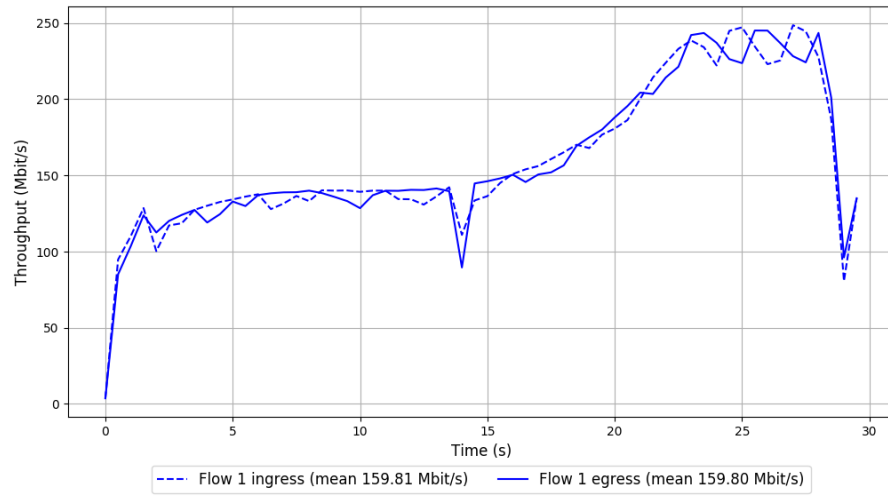
-- Flow 1:

Average throughput: 159.80 Mbit/s

95th percentile per-packet one-way delay: 57.918 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-09-21 16:41:55

End at: 2017-09-21 16:42:25

Below is generated by plot.py at 2017-09-21 18:57:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.97 Mbit/s

95th percentile per-packet one-way delay: 50.589 ms

Loss rate: 0.14%

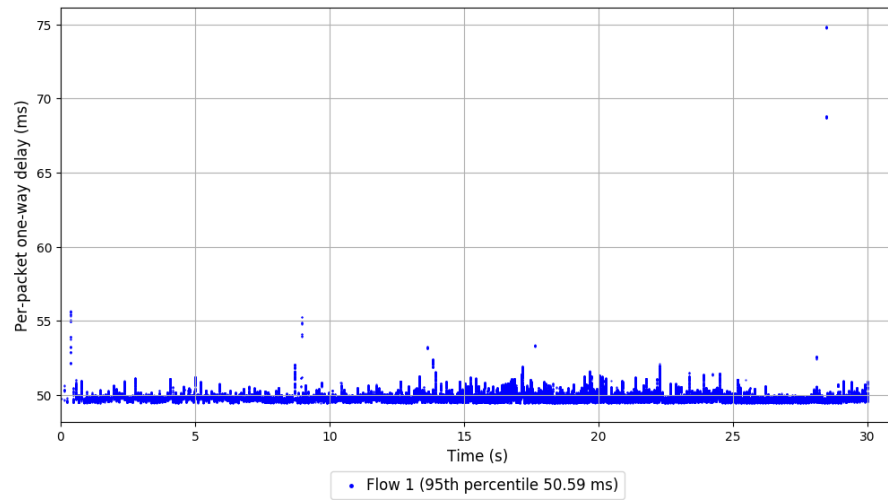
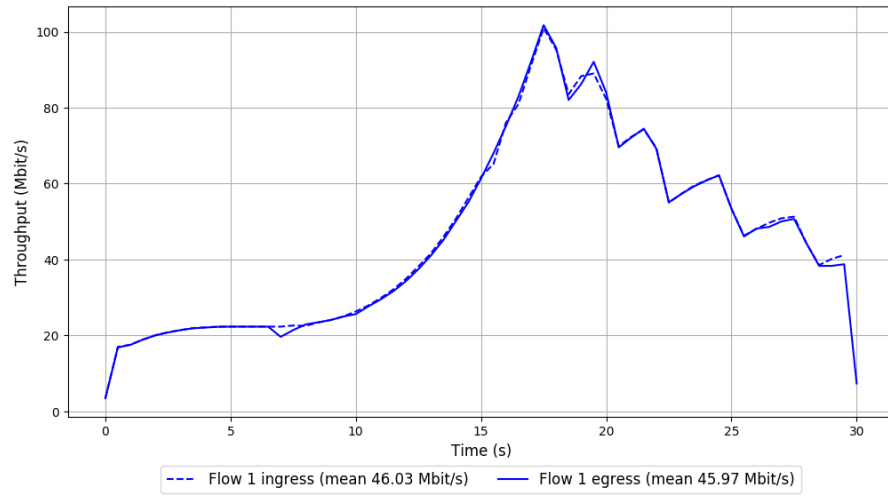
-- Flow 1:

Average throughput: 45.97 Mbit/s

95th percentile per-packet one-way delay: 50.589 ms

Loss rate: 0.14%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

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

End at: 2017-09-21 16:53:51

Below is generated by plot.py at 2017-09-21 18:57:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.19 Mbit/s

95th percentile per-packet one-way delay: 50.964 ms

Loss rate: 0.40%

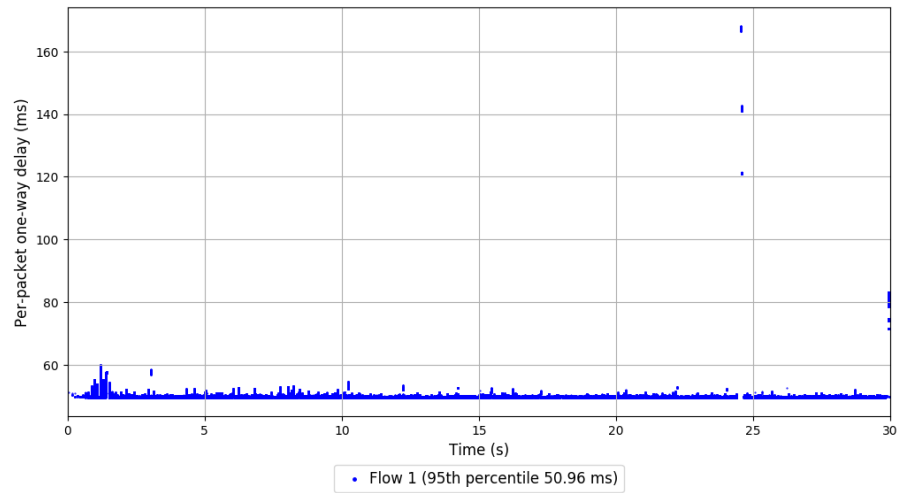
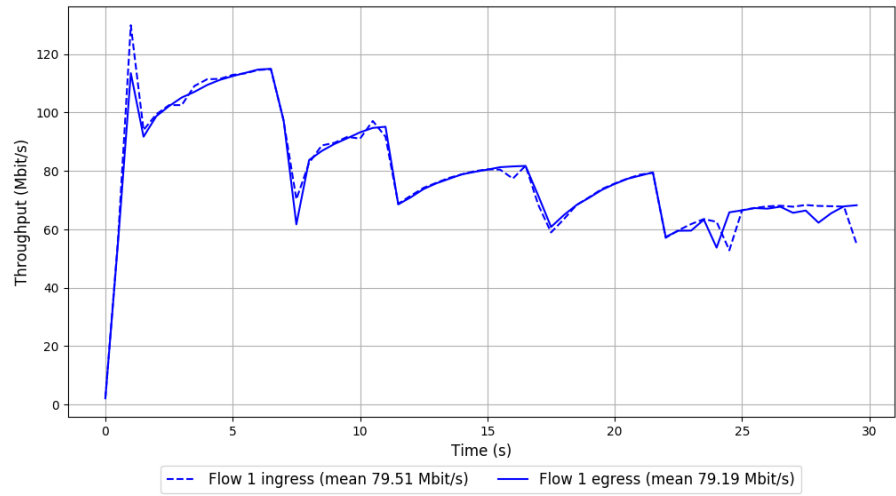
-- Flow 1:

Average throughput: 79.19 Mbit/s

95th percentile per-packet one-way delay: 50.964 ms

Loss rate: 0.40%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-09-21 17:03:53

End at: 2017-09-21 17:04:23

Below is generated by plot.py at 2017-09-21 18:57:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.64 Mbit/s

95th percentile per-packet one-way delay: 51.112 ms

Loss rate: 0.00%

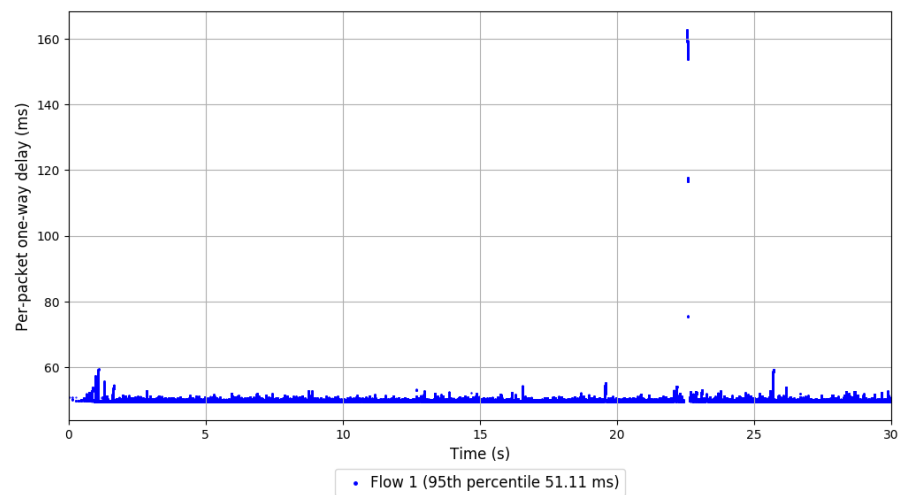
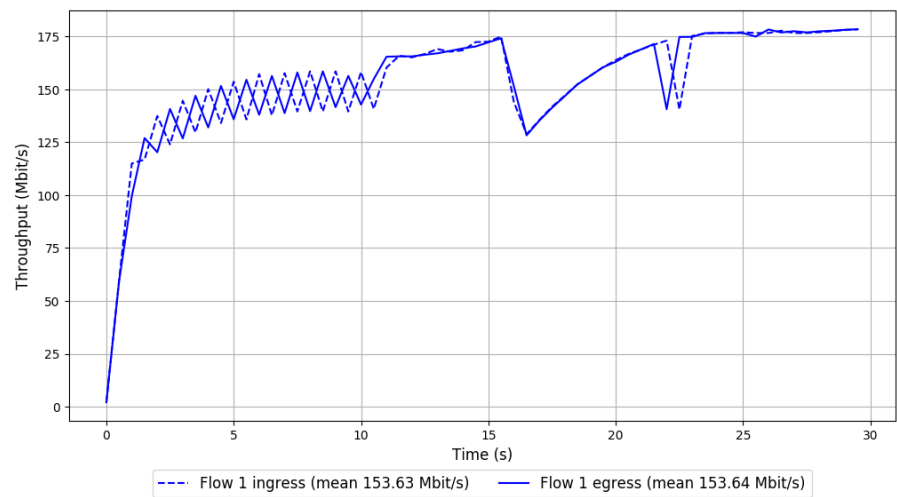
-- Flow 1:

Average throughput: 153.64 Mbit/s

95th percentile per-packet one-way delay: 51.112 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-09-21 17:14:30

End at: 2017-09-21 17:15:00

Below is generated by plot.py at 2017-09-21 18:57:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.27 Mbit/s

95th percentile per-packet one-way delay: 52.671 ms

Loss rate: 0.06%

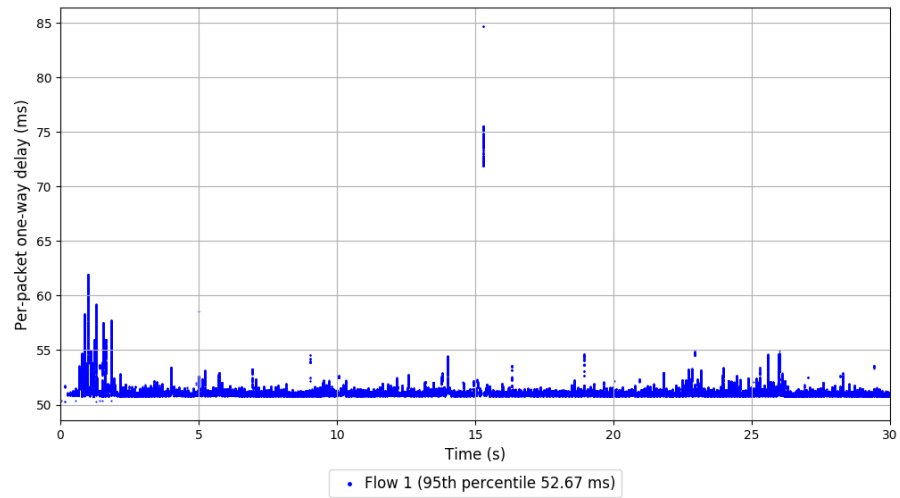
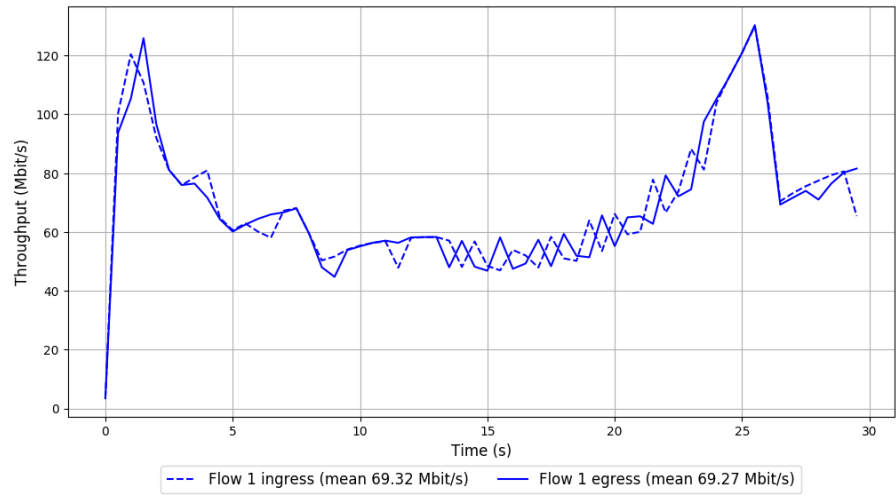
-- Flow 1:

Average throughput: 69.27 Mbit/s

95th percentile per-packet one-way delay: 52.671 ms

Loss rate: 0.06%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-09-21 17:25:18

End at: 2017-09-21 17:25:48

Below is generated by plot.py at 2017-09-21 18:57:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.98 Mbit/s

95th percentile per-packet one-way delay: 51.660 ms

Loss rate: 0.04%

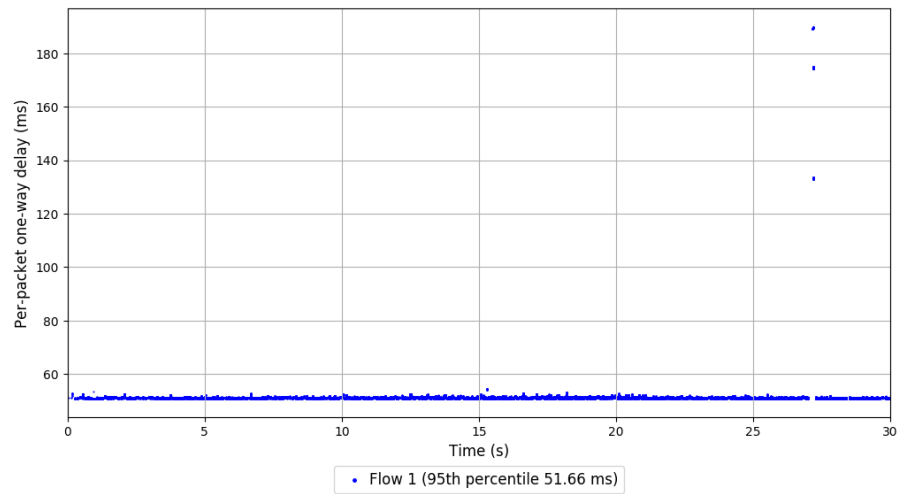
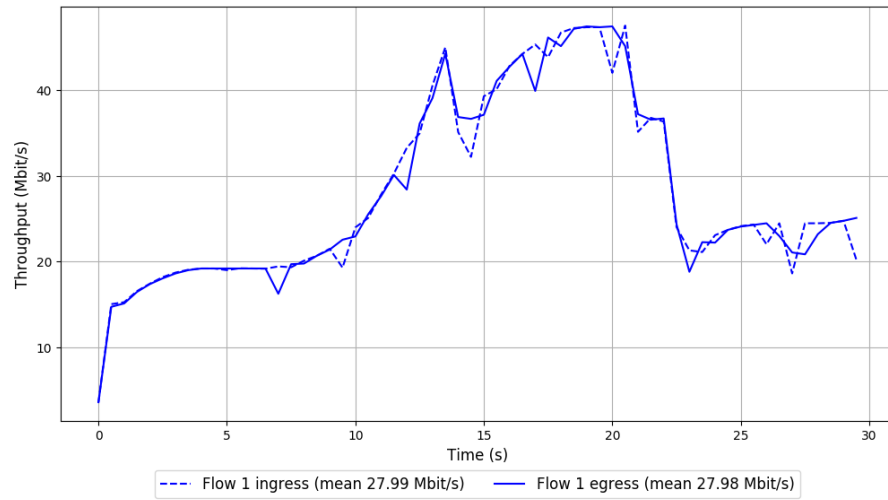
-- Flow 1:

Average throughput: 27.98 Mbit/s

95th percentile per-packet one-way delay: 51.660 ms

Loss rate: 0.04%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-09-21 17:35:37

End at: 2017-09-21 17:36:07

Below is generated by plot.py at 2017-09-21 18:57:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.91 Mbit/s

95th percentile per-packet one-way delay: 52.021 ms

Loss rate: 0.38%

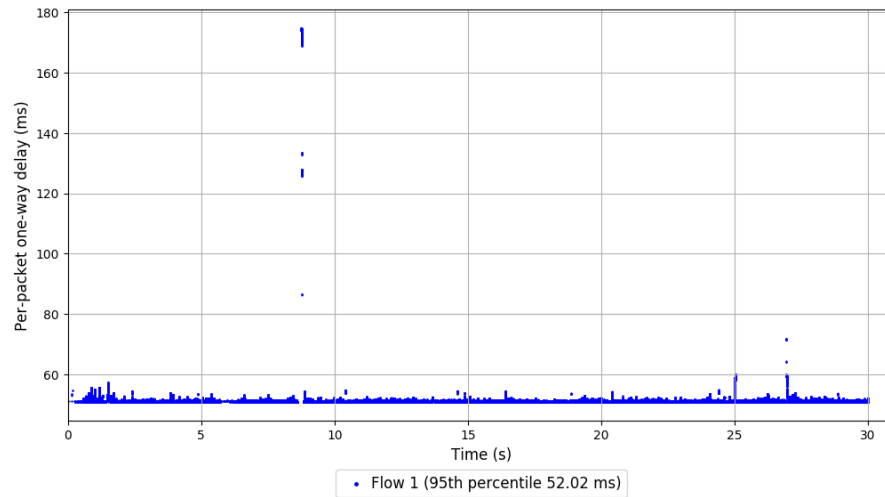
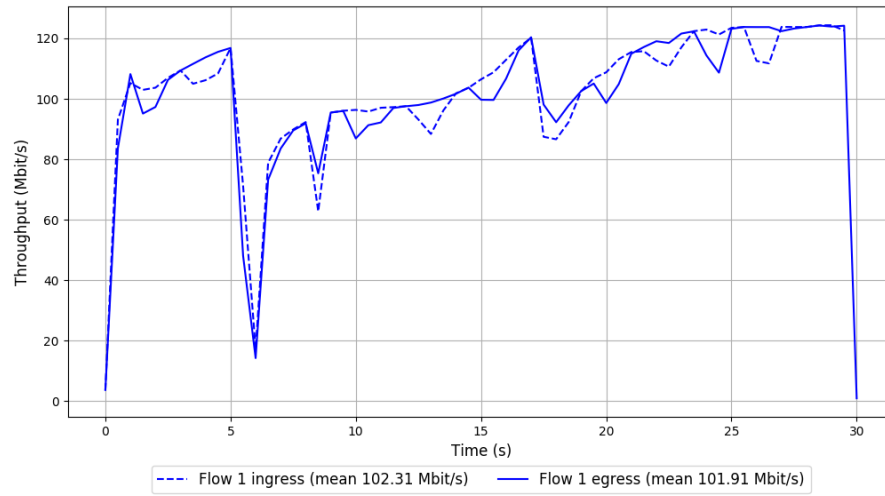
-- Flow 1:

Average throughput: 101.91 Mbit/s

95th percentile per-packet one-way delay: 52.021 ms

Loss rate: 0.38%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-09-21 17:45:43

End at: 2017-09-21 17:46:13

Below is generated by plot.py at 2017-09-21 18:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.56 Mbit/s

95th percentile per-packet one-way delay: 52.263 ms

Loss rate: 0.28%

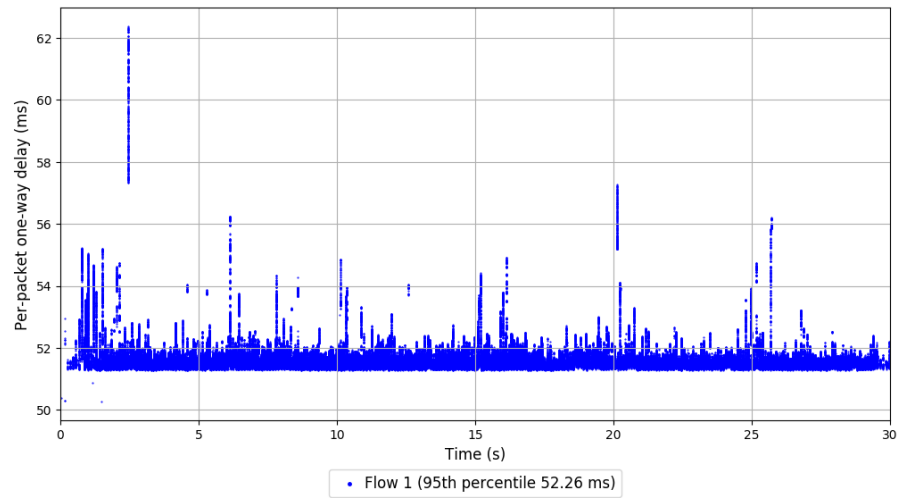
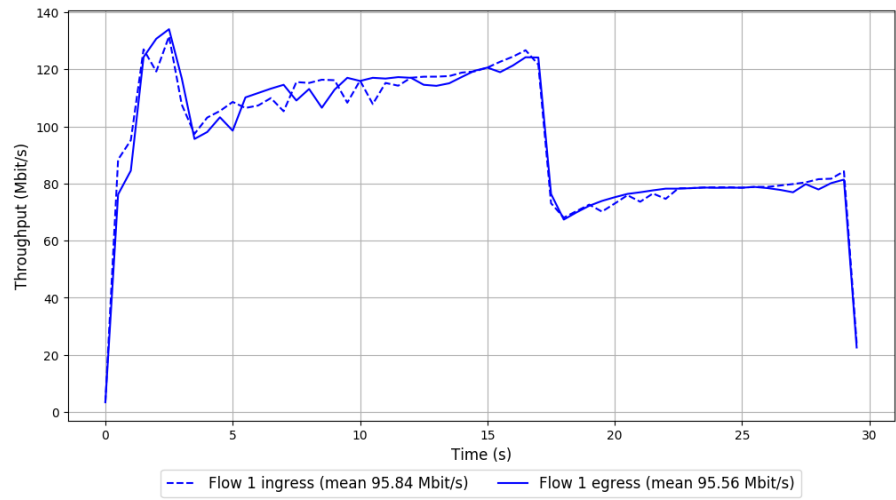
-- Flow 1:

Average throughput: 95.56 Mbit/s

95th percentile per-packet one-way delay: 52.263 ms

Loss rate: 0.28%

Run 10: Report of TCP Cubic — Data Link

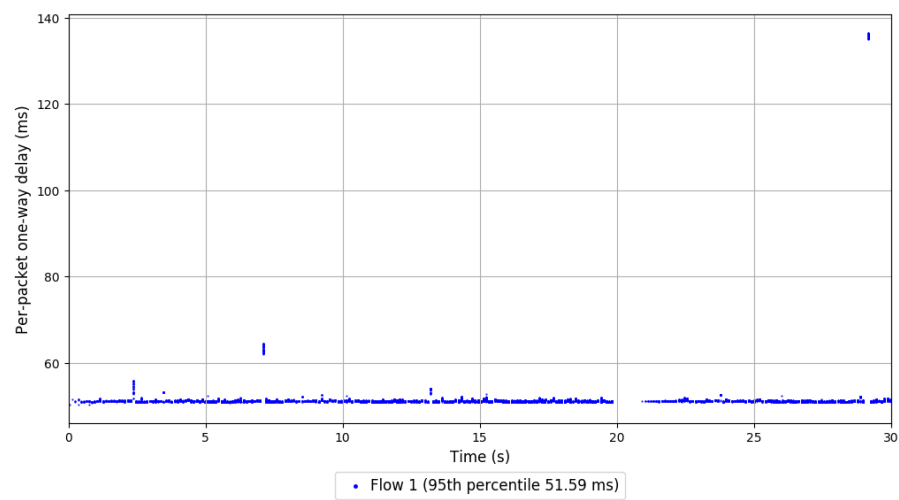
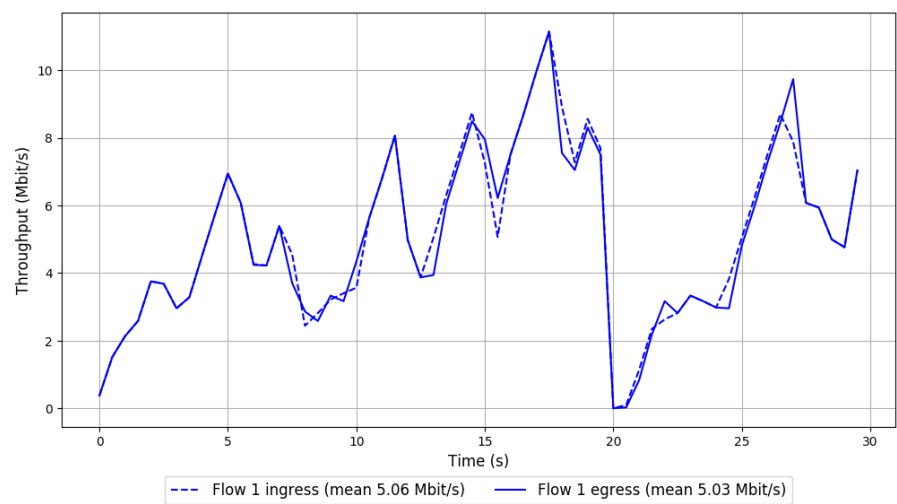


```
Run 1: Statistics of LEDBAT

Start at: 2017-09-21 16:15:46
End at: 2017-09-21 16:16:16

# Below is generated by plot.py at 2017-09-21 18:57:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.03 Mbit/s
95th percentile per-packet one-way delay: 51.591 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 5.03 Mbit/s
95th percentile per-packet one-way delay: 51.591 ms
Loss rate: 0.68%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-09-21 16:26:15

End at: 2017-09-21 16:26:46

Below is generated by plot.py at 2017-09-21 18:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.76 Mbit/s

95th percentile per-packet one-way delay: 51.778 ms

Loss rate: 0.48%

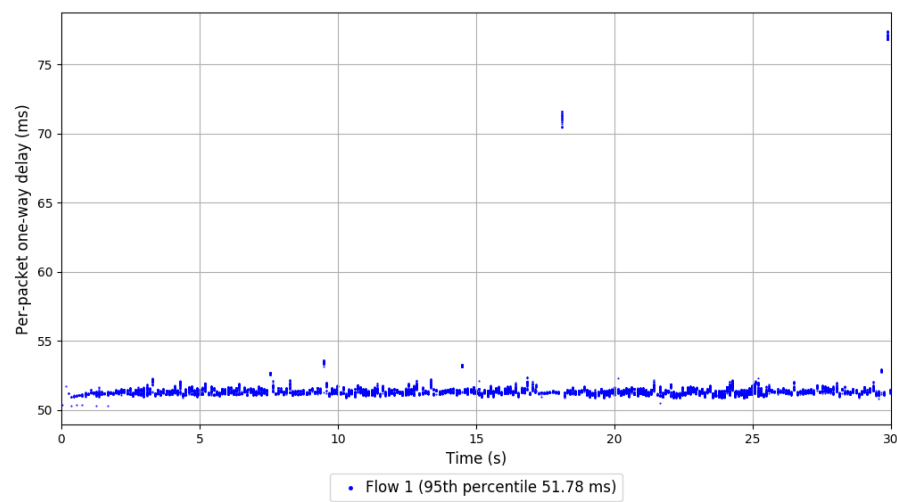
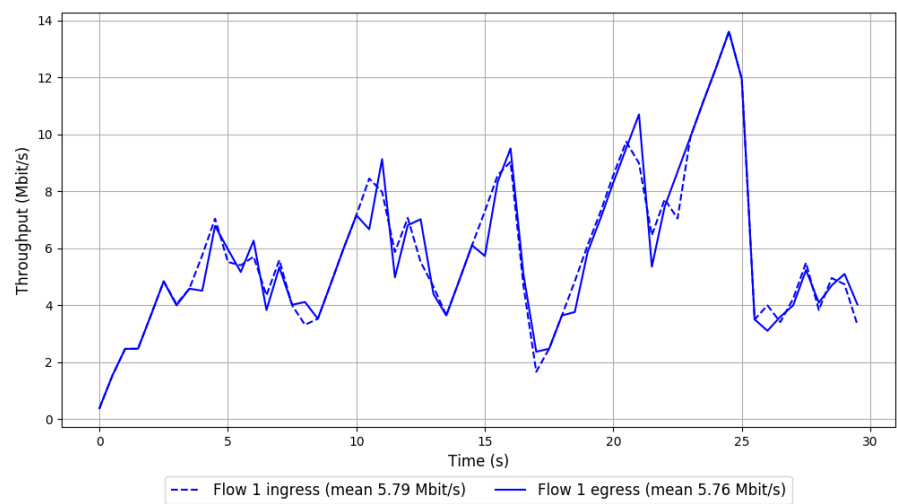
-- Flow 1:

Average throughput: 5.76 Mbit/s

95th percentile per-packet one-way delay: 51.778 ms

Loss rate: 0.48%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-09-21 16:36:40

End at: 2017-09-21 16:37:10

Below is generated by plot.py at 2017-09-21 18:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.09 Mbit/s

95th percentile per-packet one-way delay: 51.800 ms

Loss rate: 0.47%

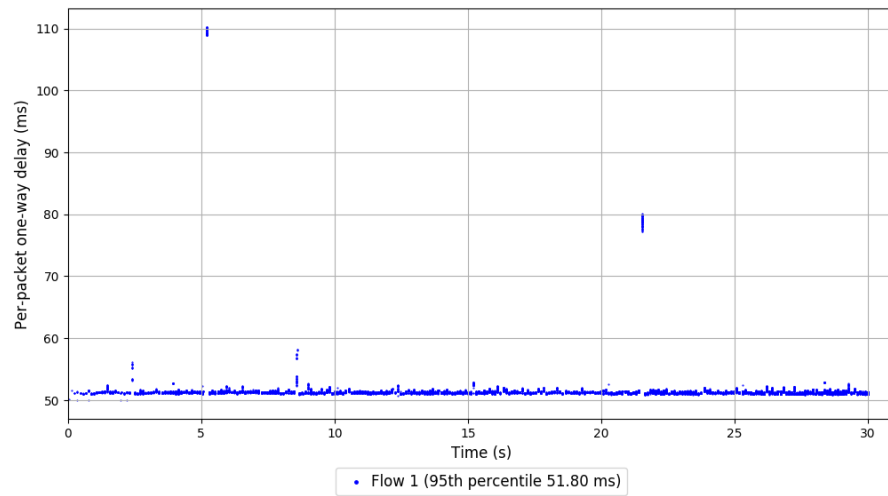
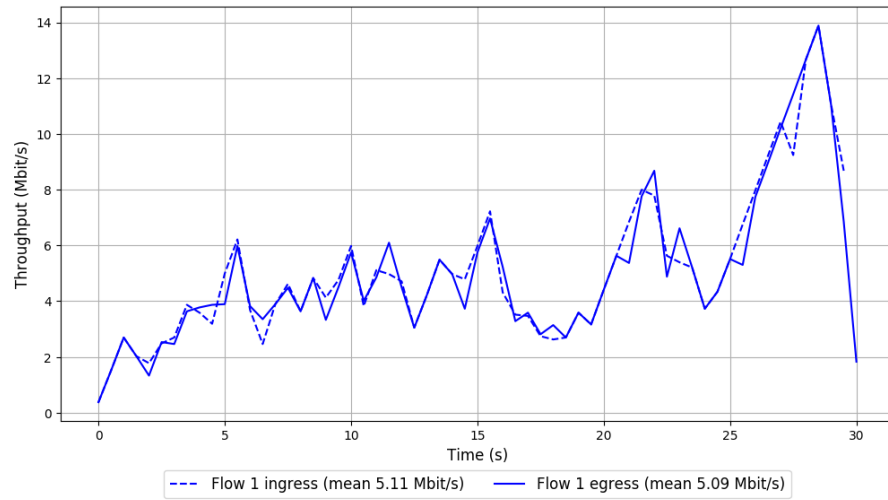
-- Flow 1:

Average throughput: 5.09 Mbit/s

95th percentile per-packet one-way delay: 51.800 ms

Loss rate: 0.47%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-09-21 16:47:21

End at: 2017-09-21 16:47:51

Below is generated by plot.py at 2017-09-21 18:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 50.231 ms

Loss rate: 1.66%

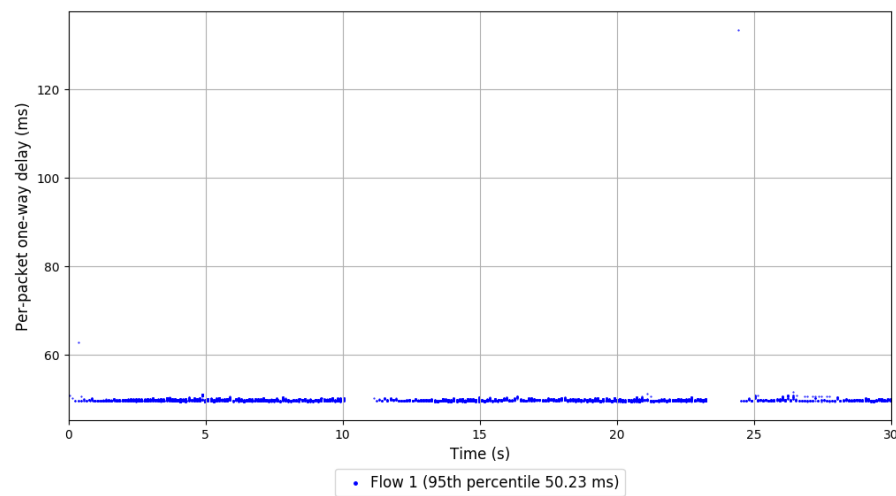
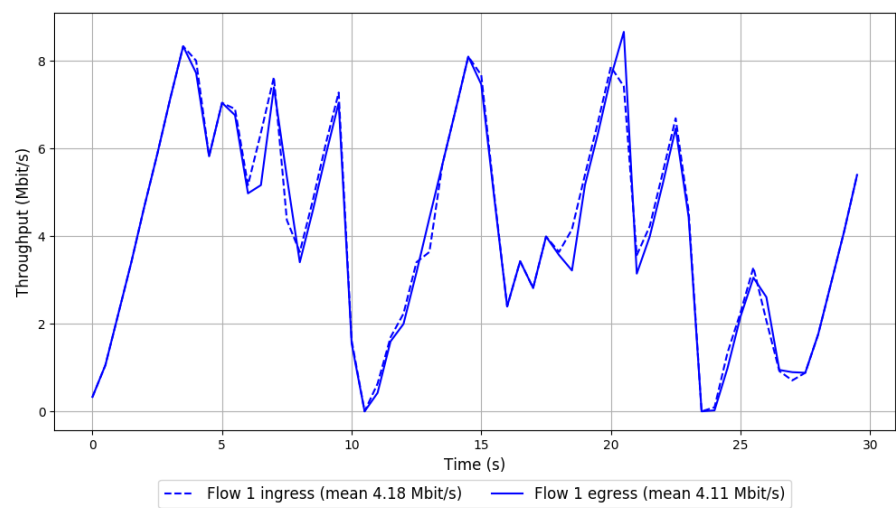
-- Flow 1:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 50.231 ms

Loss rate: 1.66%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-09-21 16:58:37

End at: 2017-09-21 16:59:07

Below is generated by plot.py at 2017-09-21 18:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 50.474 ms

Loss rate: 0.83%

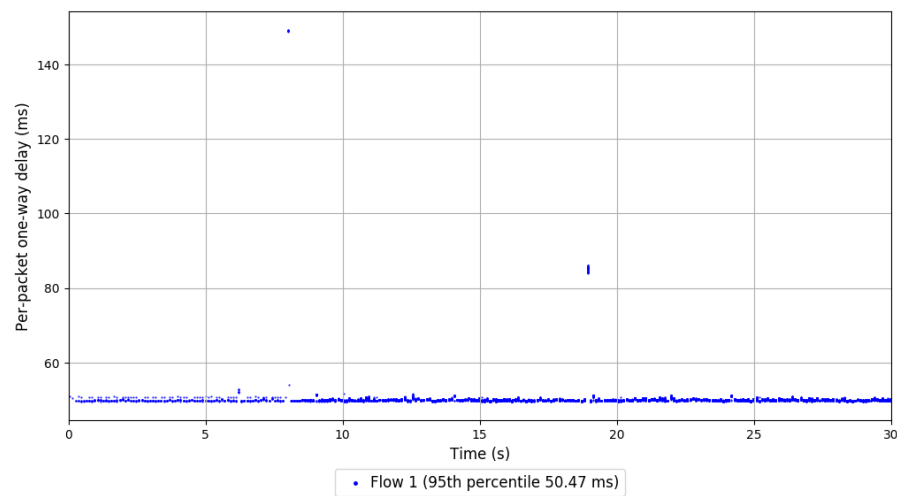
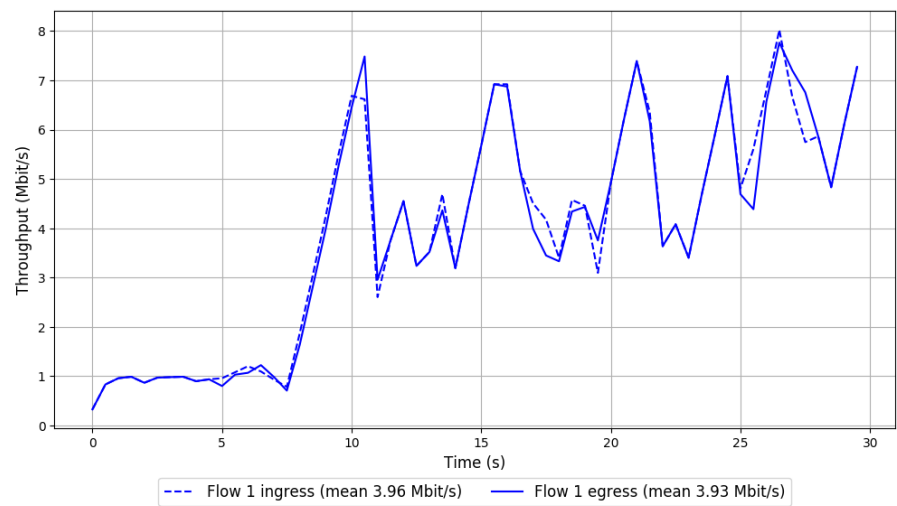
-- Flow 1:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 50.474 ms

Loss rate: 0.83%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-09-21 17:09:06

End at: 2017-09-21 17:09:36

Below is generated by plot.py at 2017-09-21 18:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.09 Mbit/s

95th percentile per-packet one-way delay: 51.448 ms

Loss rate: 0.06%

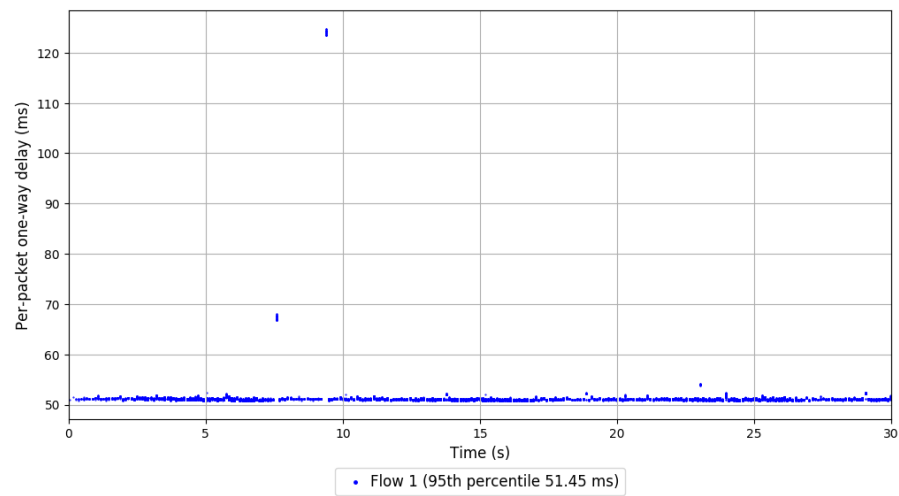
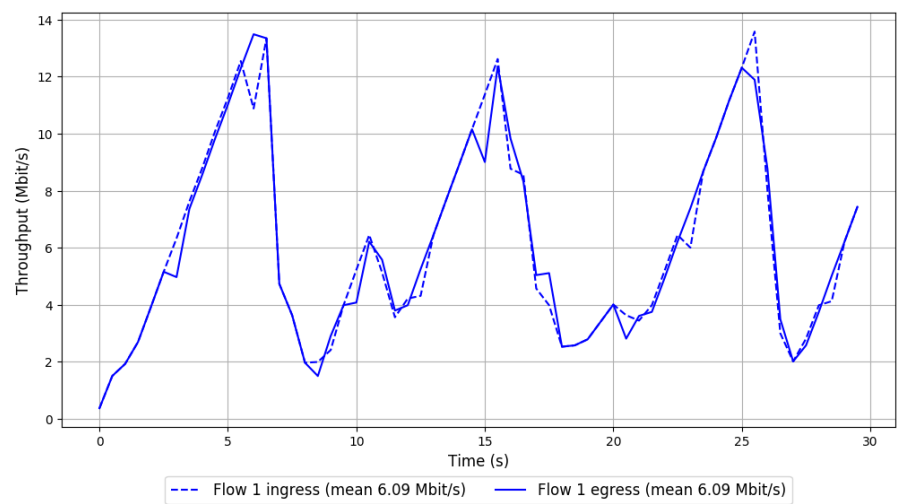
-- Flow 1:

Average throughput: 6.09 Mbit/s

95th percentile per-packet one-way delay: 51.448 ms

Loss rate: 0.06%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-09-21 17:20:00

End at: 2017-09-21 17:20:30

Below is generated by plot.py at 2017-09-21 18:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.33 Mbit/s

95th percentile per-packet one-way delay: 51.682 ms

Loss rate: 0.71%

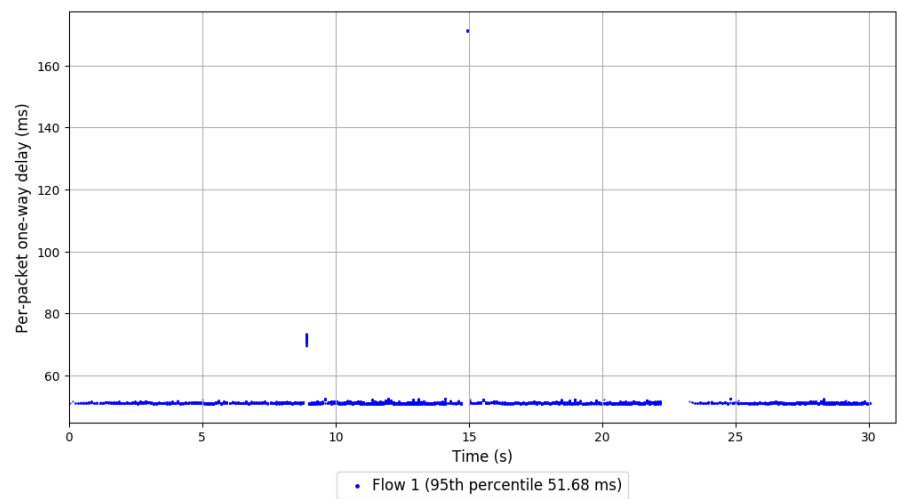
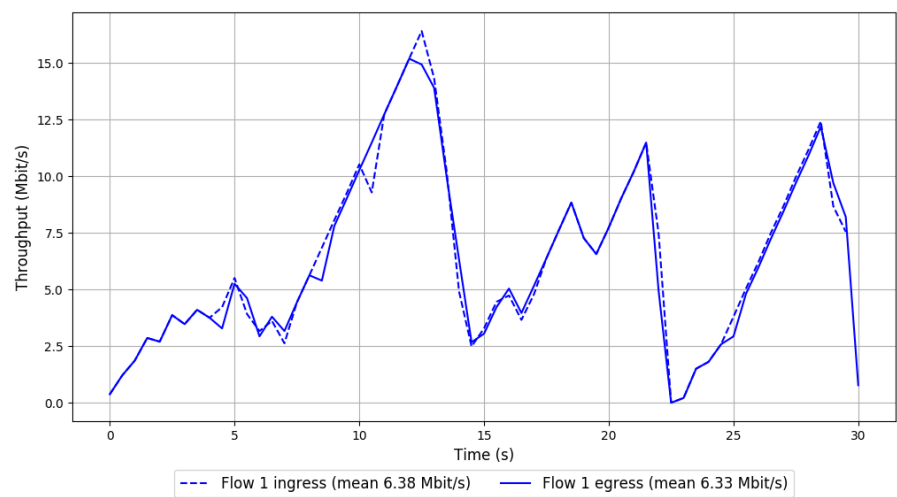
-- Flow 1:

Average throughput: 6.33 Mbit/s

95th percentile per-packet one-way delay: 51.682 ms

Loss rate: 0.71%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-09-21 17:30:30

End at: 2017-09-21 17:31:00

Below is generated by plot.py at 2017-09-21 18:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.71 Mbit/s

95th percentile per-packet one-way delay: 51.595 ms

Loss rate: 0.00%

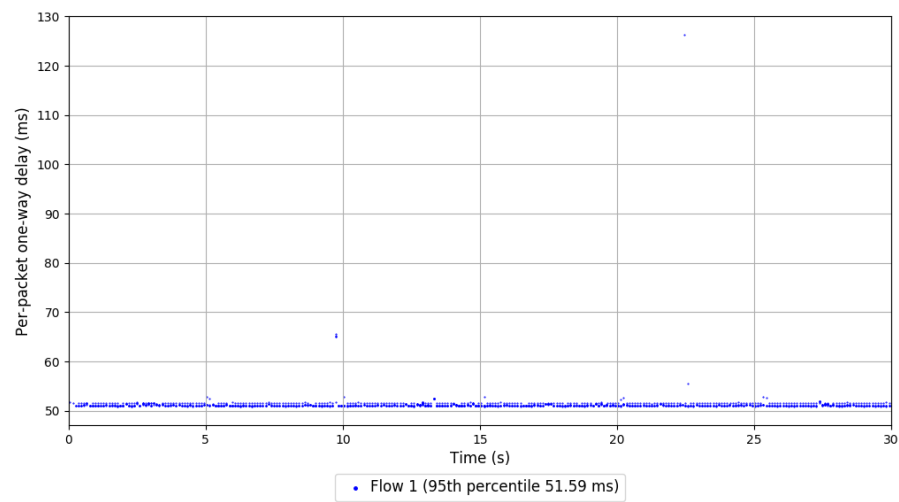
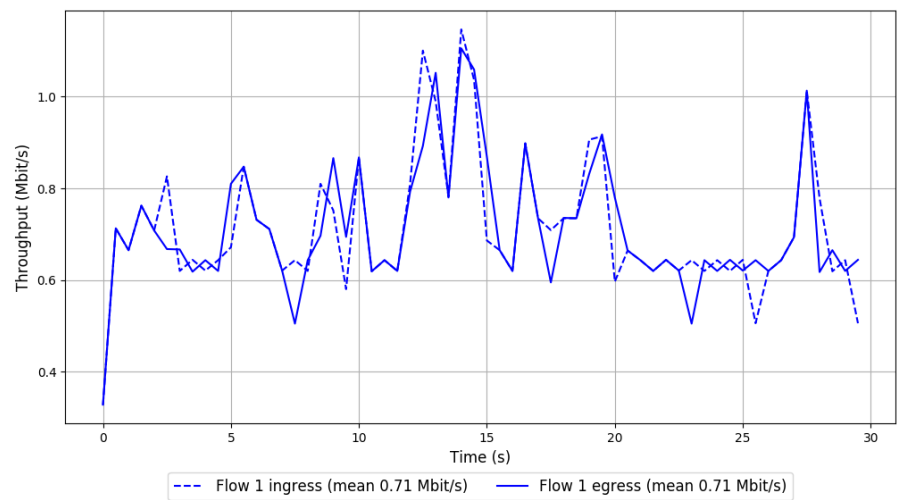
-- Flow 1:

Average throughput: 0.71 Mbit/s

95th percentile per-packet one-way delay: 51.595 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-09-21 17:40:39

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

Below is generated by plot.py at 2017-09-21 18:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.47 Mbit/s

95th percentile per-packet one-way delay: 52.134 ms

Loss rate: 0.60%

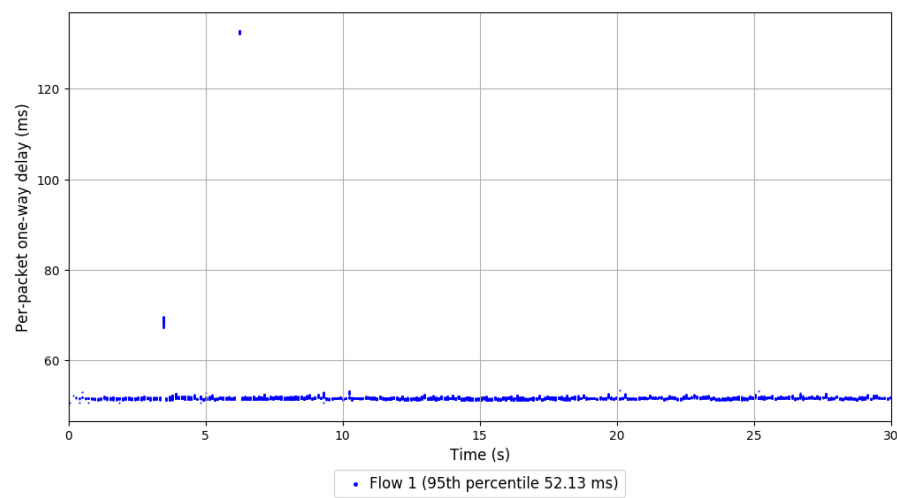
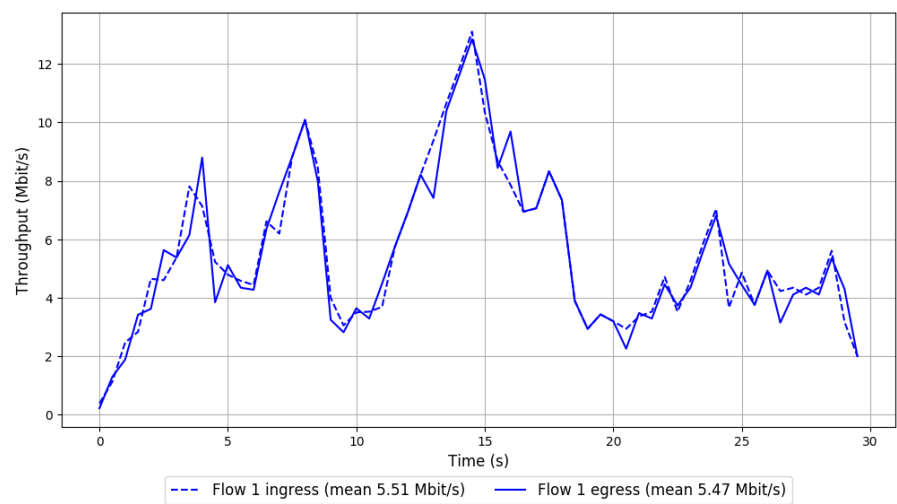
-- Flow 1:

Average throughput: 5.47 Mbit/s

95th percentile per-packet one-way delay: 52.134 ms

Loss rate: 0.60%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-09-21 17:50:57

End at: 2017-09-21 17:51:27

Below is generated by plot.py at 2017-09-21 18:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.03 Mbit/s

95th percentile per-packet one-way delay: 52.078 ms

Loss rate: 0.19%

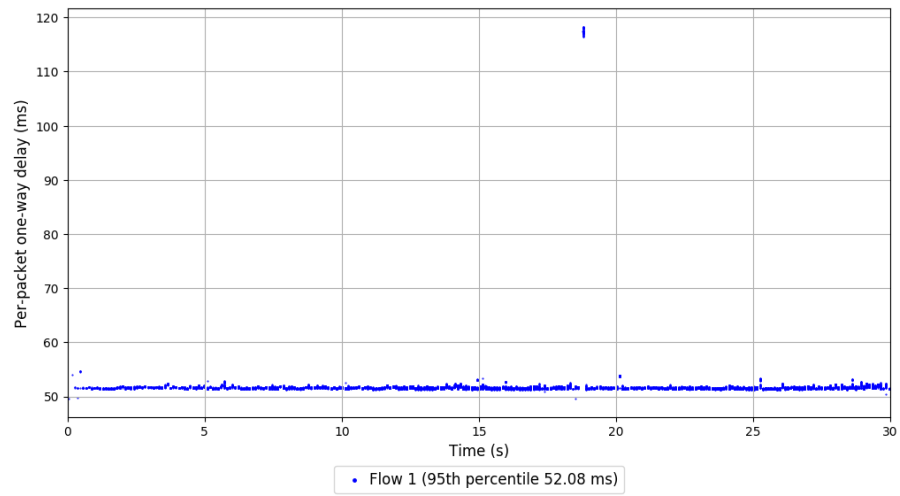
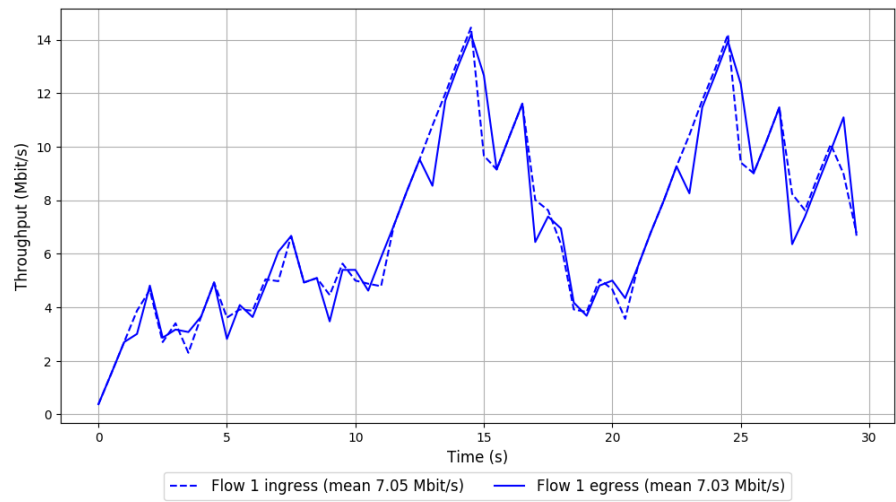
-- Flow 1:

Average throughput: 7.03 Mbit/s

95th percentile per-packet one-way delay: 52.078 ms

Loss rate: 0.19%

Run 10: Report of LEDBAT — Data Link

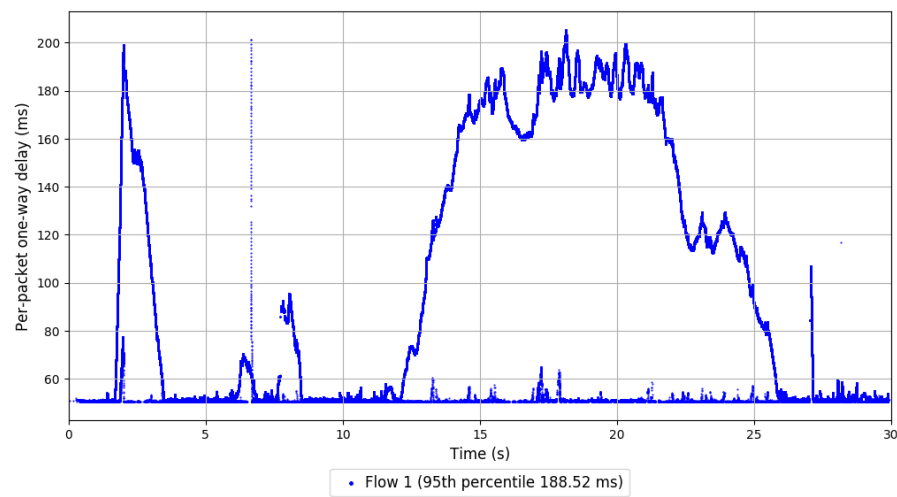
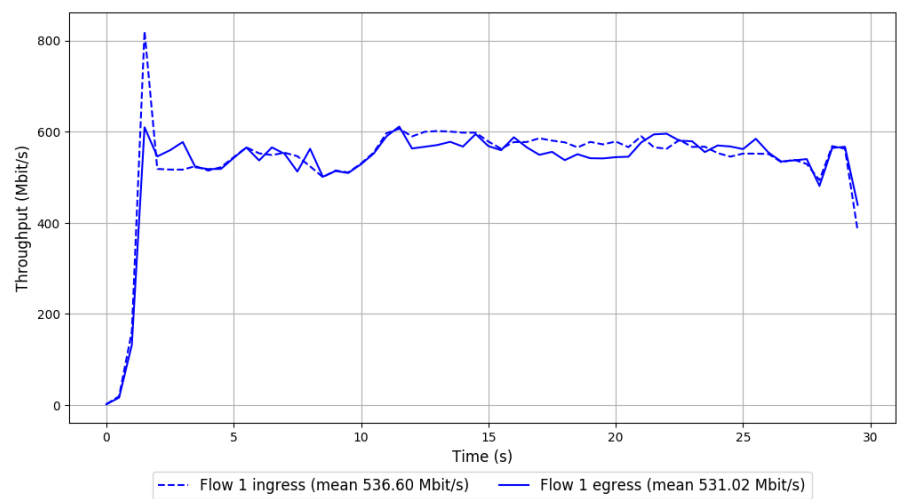


```
Run 1: Statistics of PCC

Start at: 2017-09-21 16:18:37
End at: 2017-09-21 16:19:08

# Below is generated by plot.py at 2017-09-21 19:07:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 531.02 Mbit/s
95th percentile per-packet one-way delay: 188.524 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 531.02 Mbit/s
95th percentile per-packet one-way delay: 188.524 ms
Loss rate: 1.04%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-09-21 16:29:06

End at: 2017-09-21 16:29:36

Below is generated by plot.py at 2017-09-21 19:07:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 505.20 Mbit/s

95th percentile per-packet one-way delay: 139.929 ms

Loss rate: 0.39%

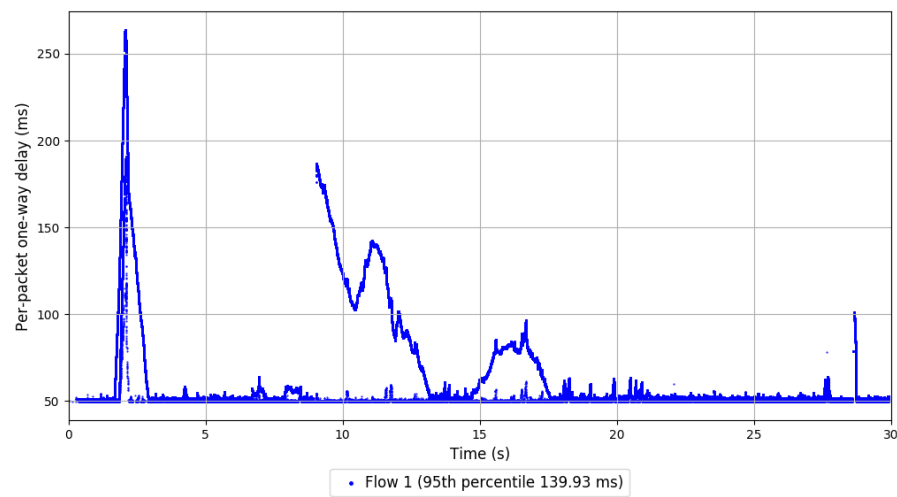
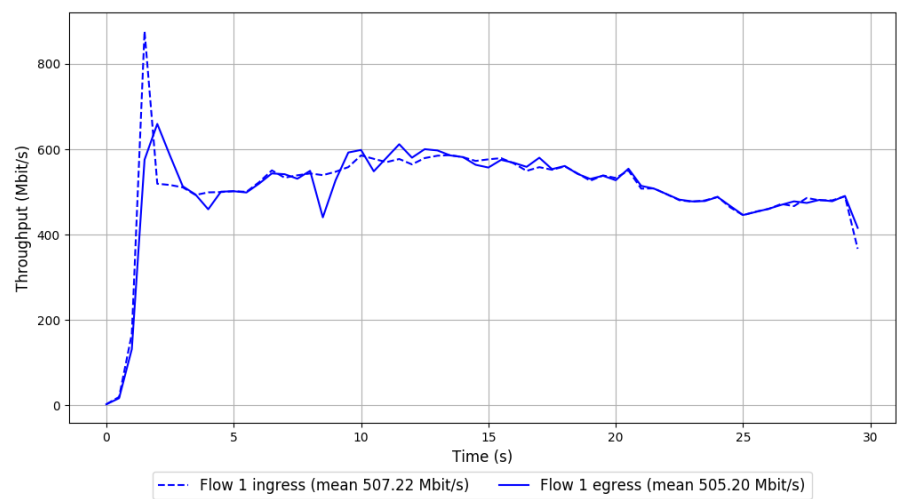
-- Flow 1:

Average throughput: 505.20 Mbit/s

95th percentile per-packet one-way delay: 139.929 ms

Loss rate: 0.39%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-09-21 16:39:30

End at: 2017-09-21 16:40:00

Below is generated by plot.py at 2017-09-21 19:07:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 537.74 Mbit/s

95th percentile per-packet one-way delay: 177.202 ms

Loss rate: 1.05%

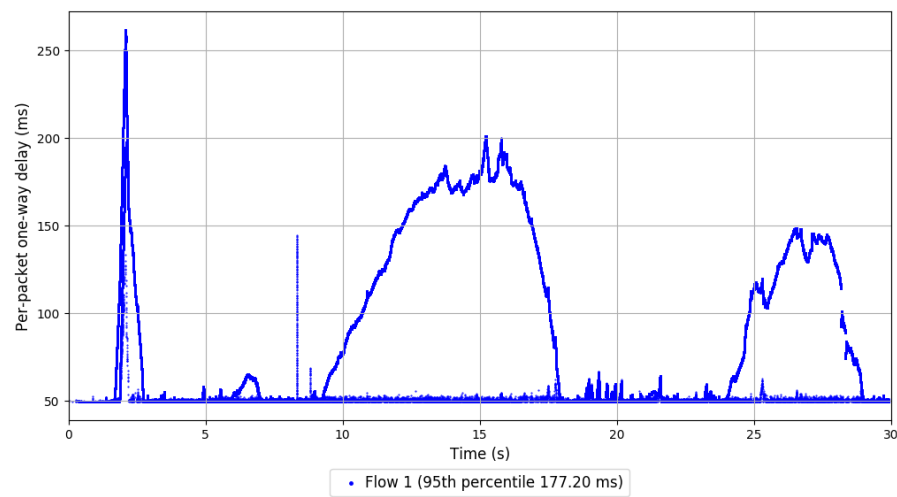
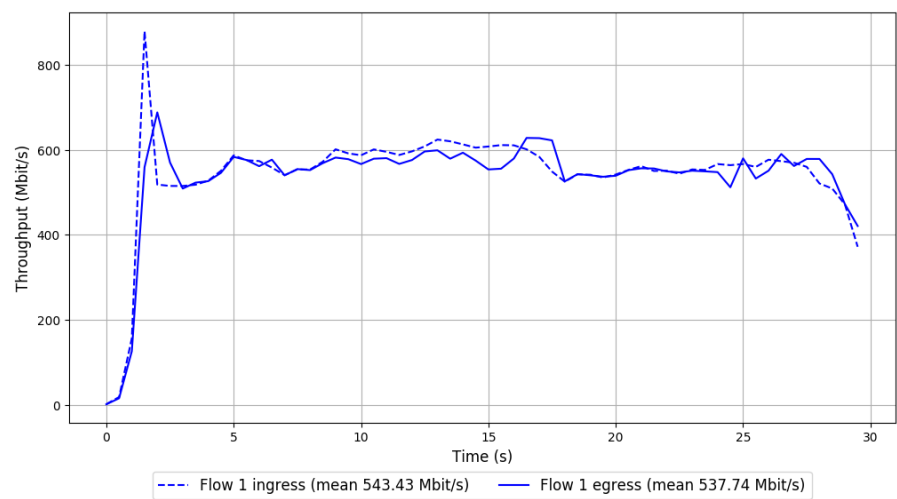
-- Flow 1:

Average throughput: 537.74 Mbit/s

95th percentile per-packet one-way delay: 177.202 ms

Loss rate: 1.05%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-09-21 16:49:57

End at: 2017-09-21 16:50:27

Below is generated by plot.py at 2017-09-21 19:07:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 552.51 Mbit/s

95th percentile per-packet one-way delay: 150.061 ms

Loss rate: 0.15%

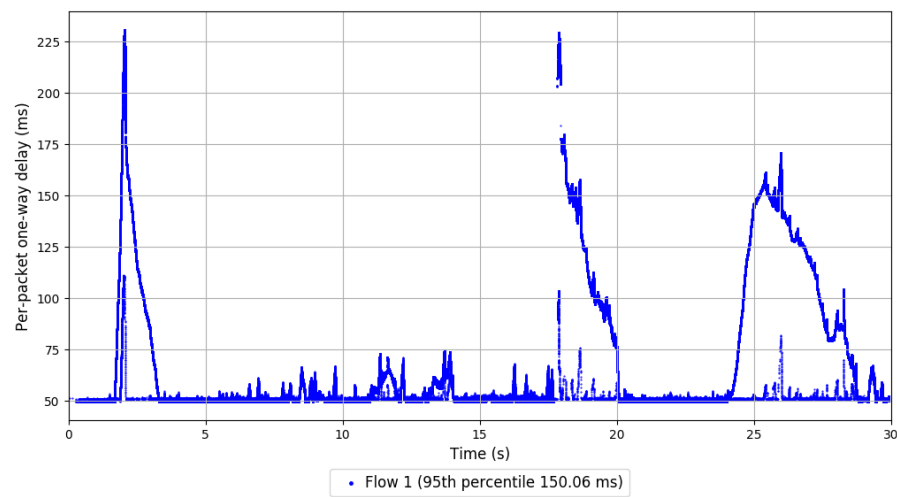
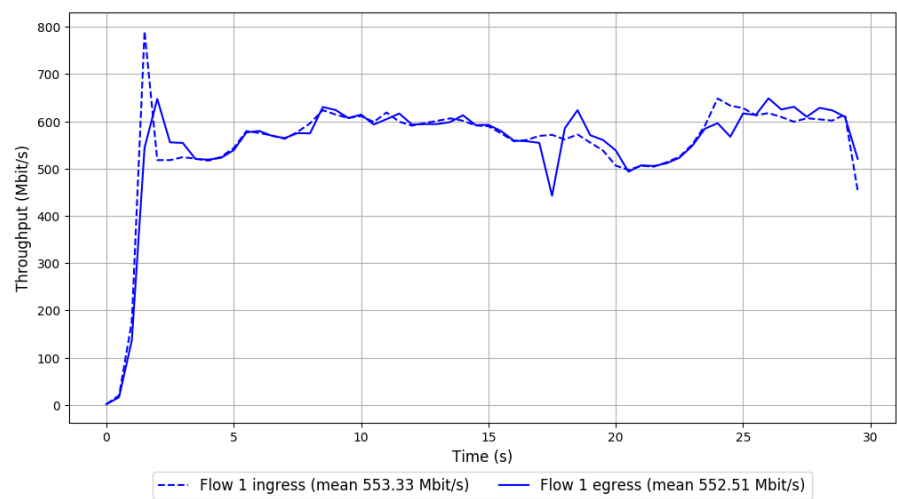
-- Flow 1:

Average throughput: 552.51 Mbit/s

95th percentile per-packet one-way delay: 150.061 ms

Loss rate: 0.15%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-09-21 17:01:28

End at: 2017-09-21 17:01:58

Below is generated by plot.py at 2017-09-21 19:07:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 552.36 Mbit/s

95th percentile per-packet one-way delay: 175.631 ms

Loss rate: 0.50%

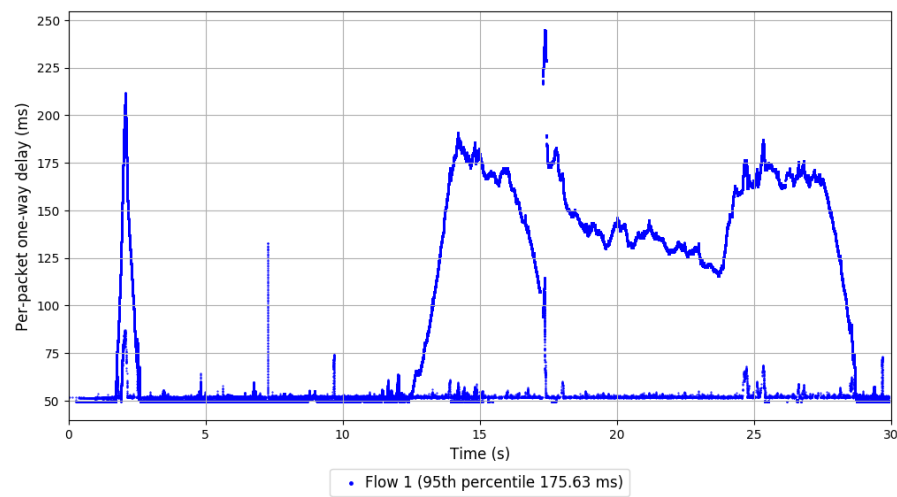
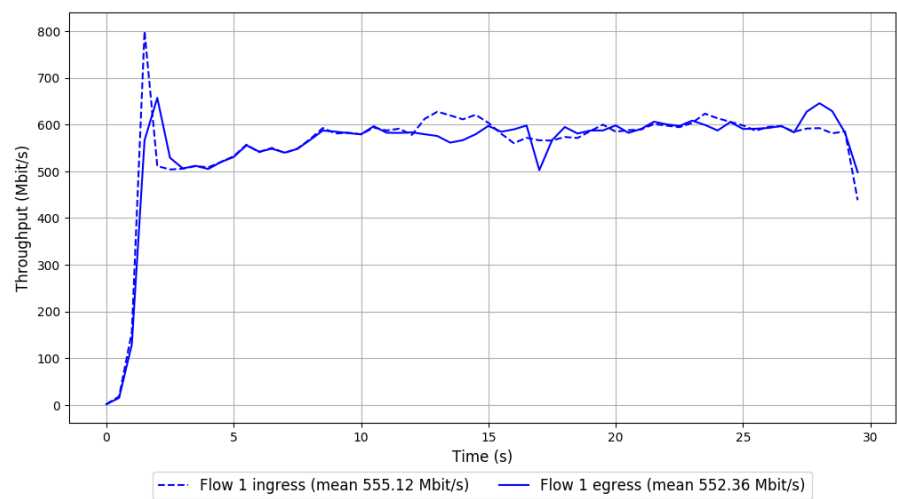
-- Flow 1:

Average throughput: 552.36 Mbit/s

95th percentile per-packet one-way delay: 175.631 ms

Loss rate: 0.50%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-09-21 17:12:04

End at: 2017-09-21 17:12:34

Below is generated by plot.py at 2017-09-21 19:07:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 502.86 Mbit/s

95th percentile per-packet one-way delay: 151.820 ms

Loss rate: 0.17%

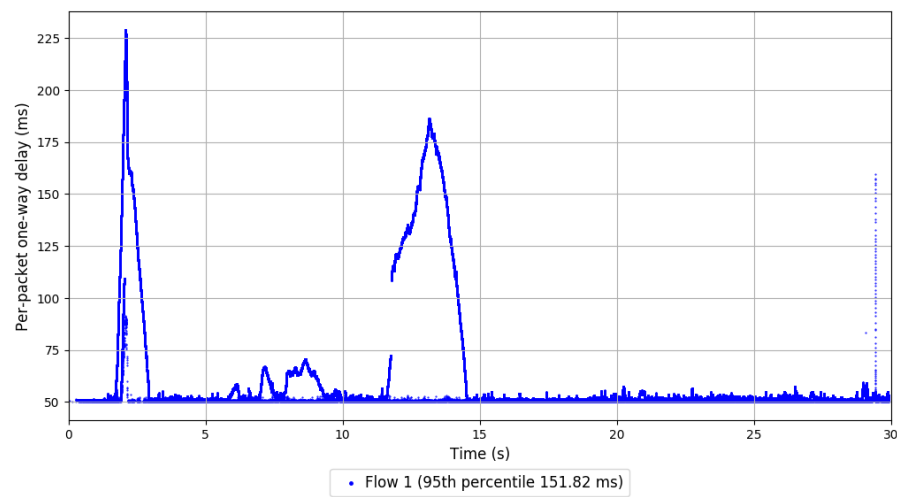
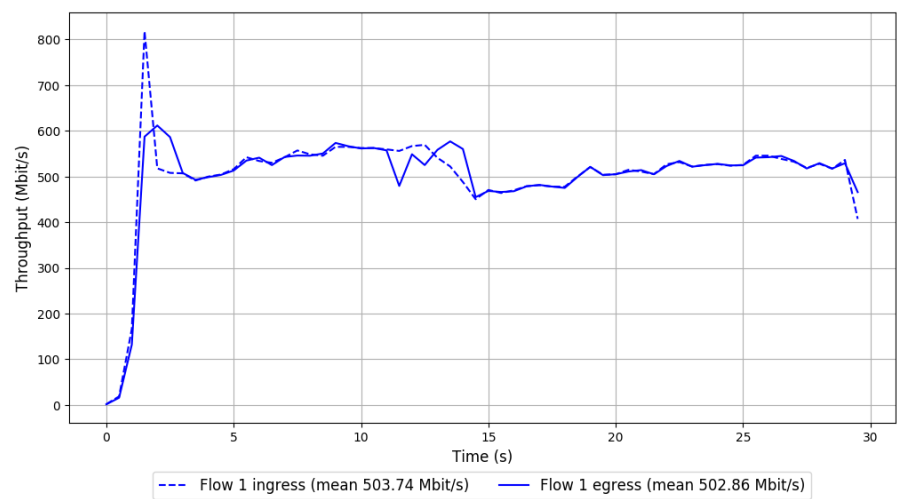
-- Flow 1:

Average throughput: 502.86 Mbit/s

95th percentile per-packet one-way delay: 151.820 ms

Loss rate: 0.17%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-09-21 17:23:01

End at: 2017-09-21 17:23:31

Below is generated by plot.py at 2017-09-21 19:08:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 554.20 Mbit/s

95th percentile per-packet one-way delay: 178.313 ms

Loss rate: 0.91%

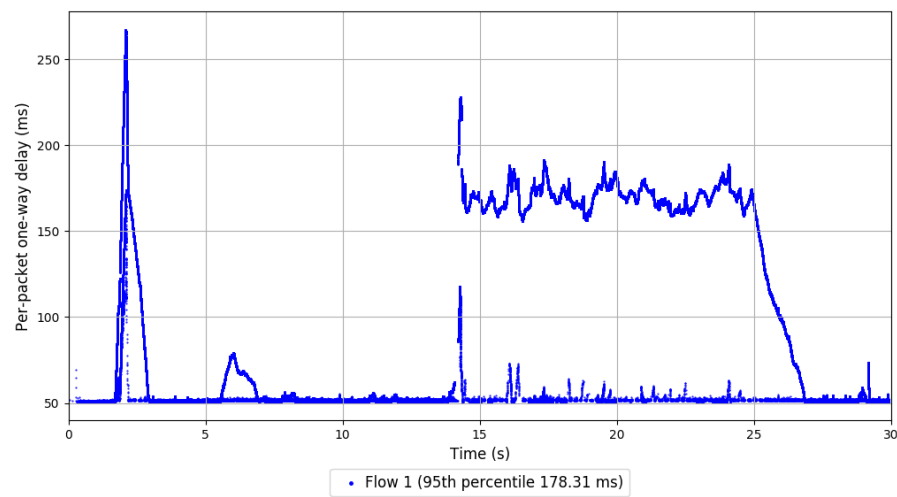
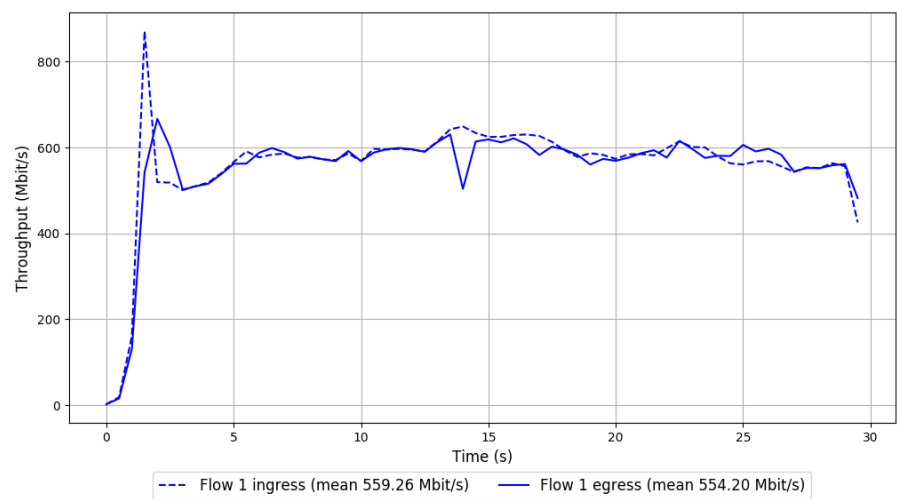
-- Flow 1:

Average throughput: 554.20 Mbit/s

95th percentile per-packet one-way delay: 178.313 ms

Loss rate: 0.91%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-09-21 17:33:10

End at: 2017-09-21 17:33:40

Below is generated by plot.py at 2017-09-21 19:08:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 514.74 Mbit/s

95th percentile per-packet one-way delay: 135.863 ms

Loss rate: 0.04%

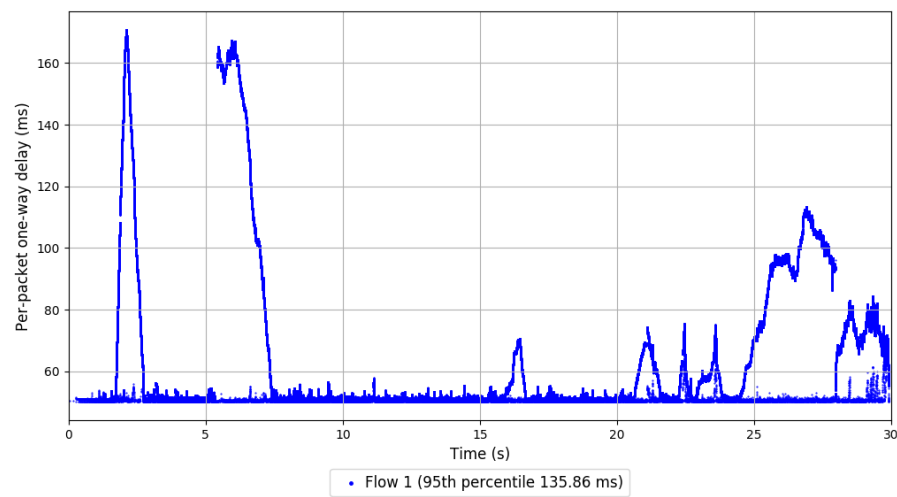
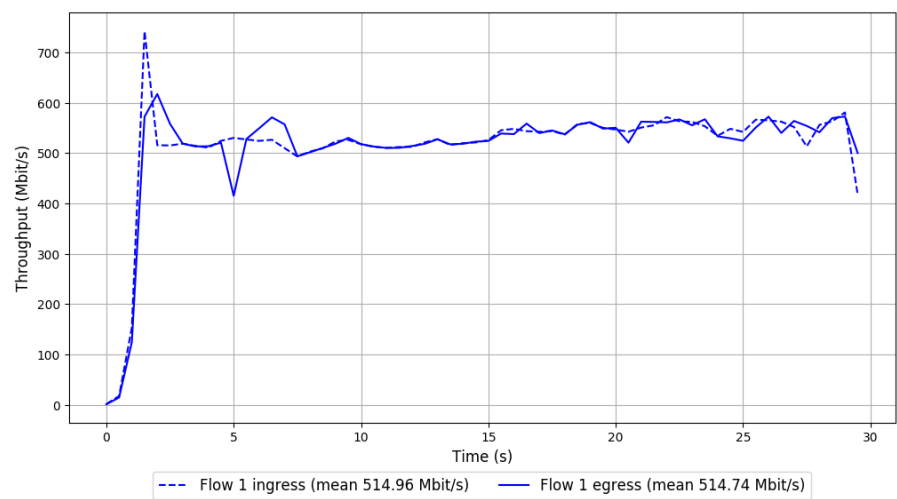
-- Flow 1:

Average throughput: 514.74 Mbit/s

95th percentile per-packet one-way delay: 135.863 ms

Loss rate: 0.04%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-09-21 17:43:17

End at: 2017-09-21 17:43:47

Below is generated by plot.py at 2017-09-21 19:17:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 540.31 Mbit/s

95th percentile per-packet one-way delay: 101.397 ms

Loss rate: 0.11%

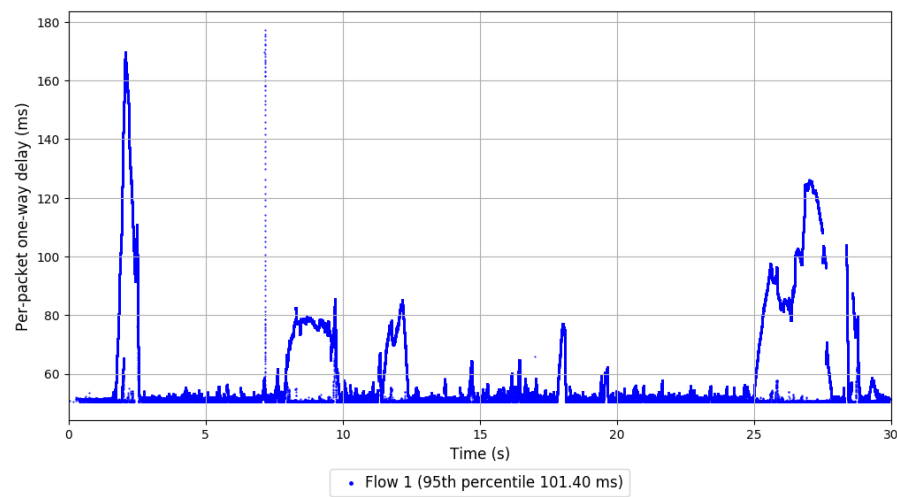
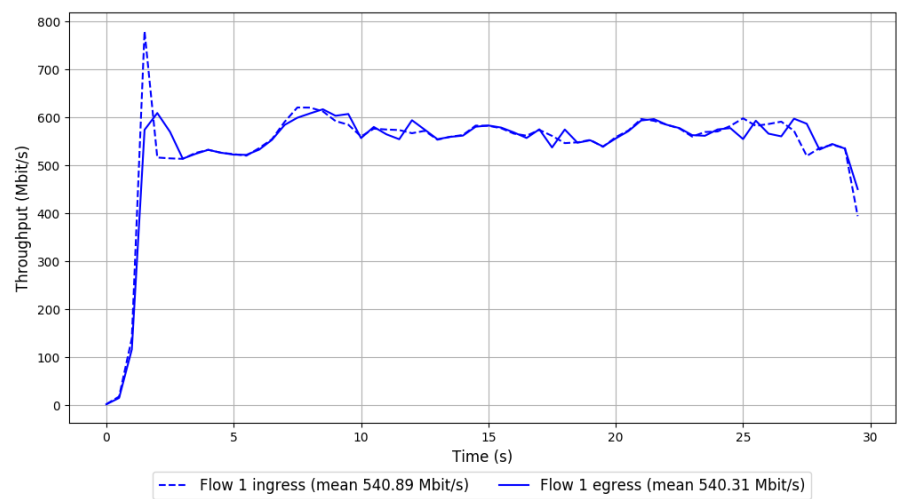
-- Flow 1:

Average throughput: 540.31 Mbit/s

95th percentile per-packet one-way delay: 101.397 ms

Loss rate: 0.11%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-09-21 17:53:45

End at: 2017-09-21 17:54:15

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 538.62 Mbit/s

95th percentile per-packet one-way delay: 168.513 ms

Loss rate: 0.35%

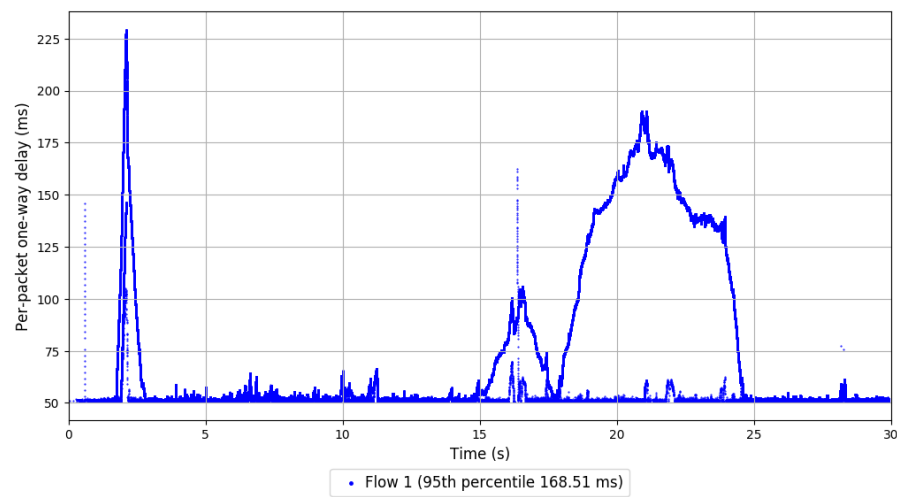
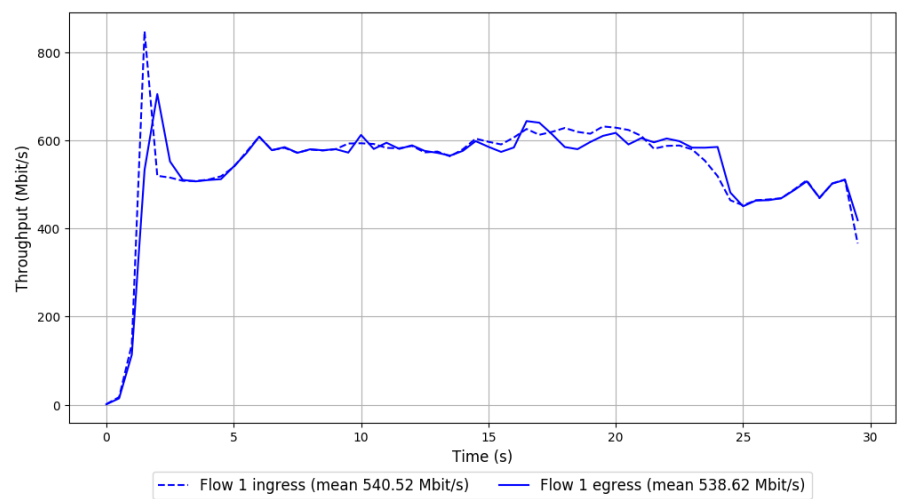
-- Flow 1:

Average throughput: 538.62 Mbit/s

95th percentile per-packet one-way delay: 168.513 ms

Loss rate: 0.35%

Run 10: Report of PCC — Data Link

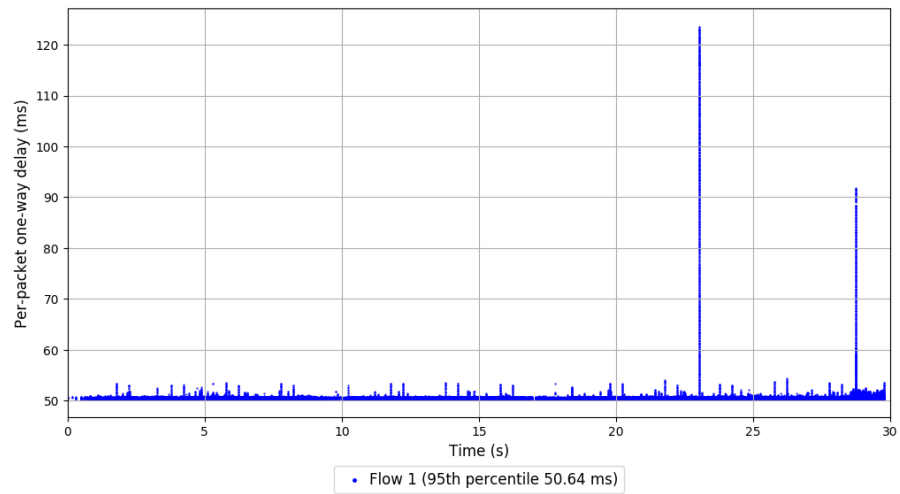
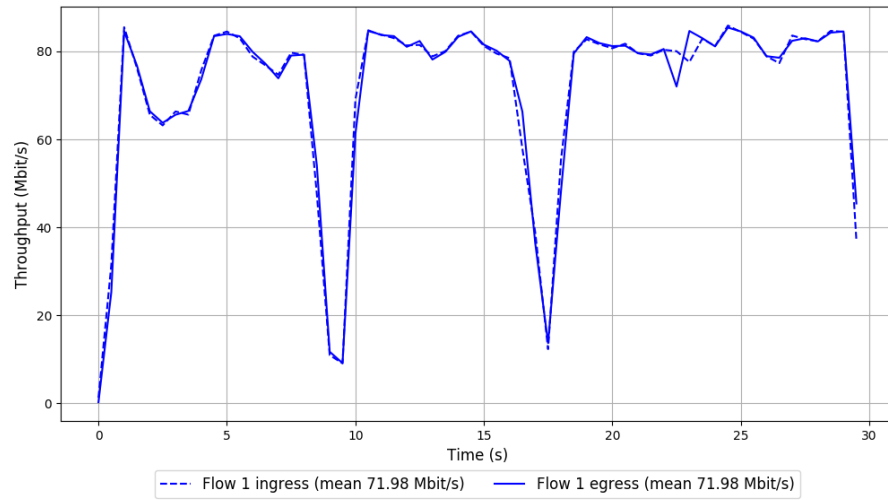


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-09-21 16:09:07
End at: 2017-09-21 16:09:37

# Below is generated by plot.py at 2017-09-21 19:18:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.98 Mbit/s
95th percentile per-packet one-way delay: 50.638 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 71.98 Mbit/s
95th percentile per-packet one-way delay: 50.638 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-09-21 16:19:35

End at: 2017-09-21 16:20:05

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.69 Mbit/s

95th percentile per-packet one-way delay: 49.596 ms

Loss rate: 0.00%

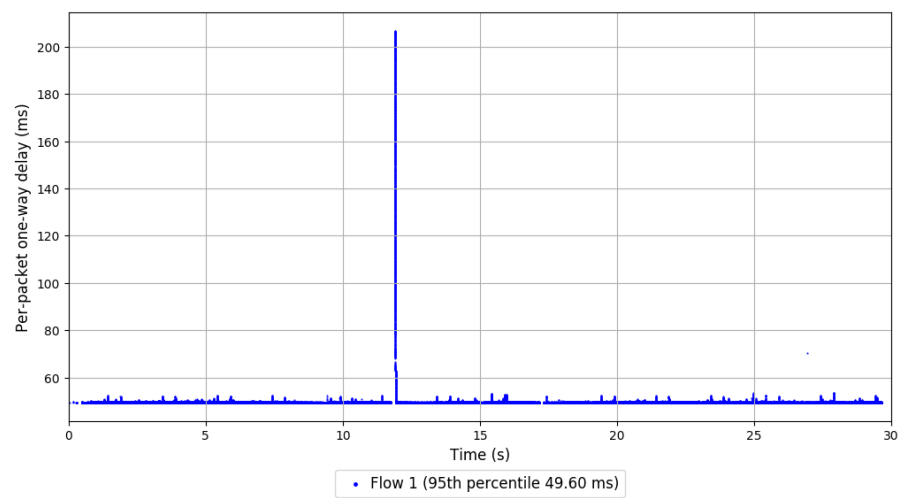
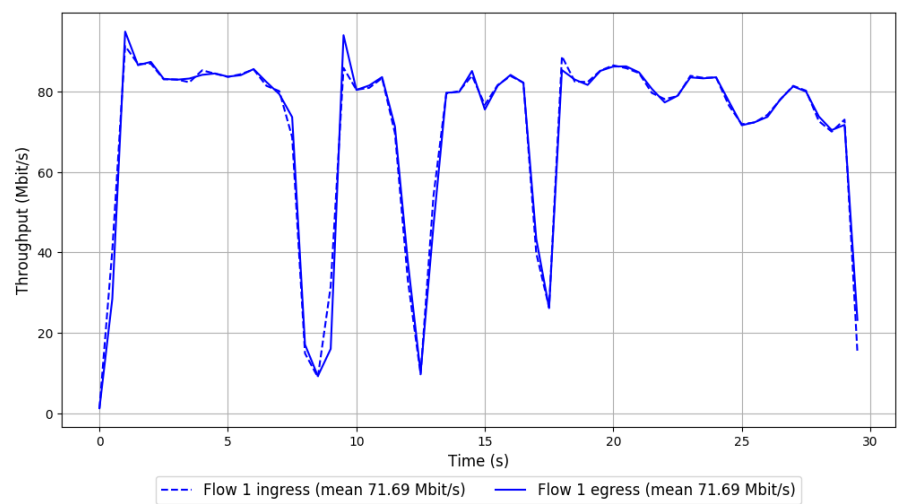
-- Flow 1:

Average throughput: 71.69 Mbit/s

95th percentile per-packet one-way delay: 49.596 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-09-21 16:30:03

End at: 2017-09-21 16:30:33

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.37 Mbit/s

95th percentile per-packet one-way delay: 50.373 ms

Loss rate: 0.00%

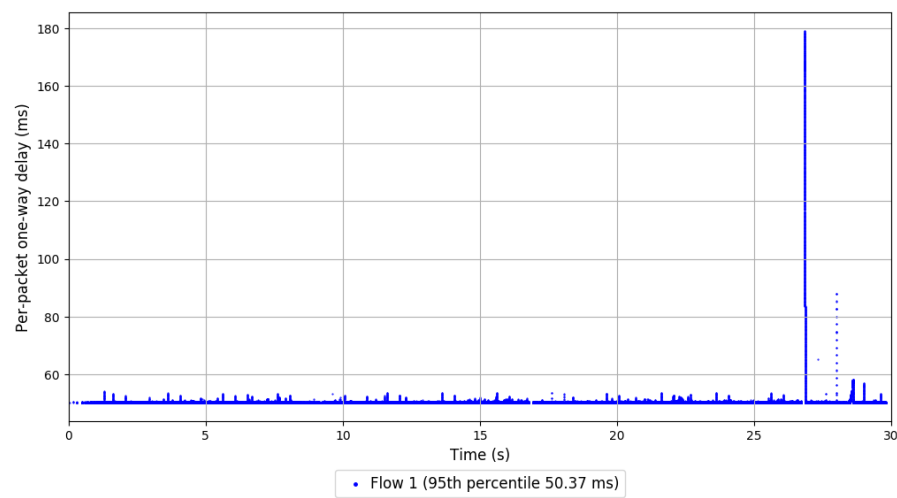
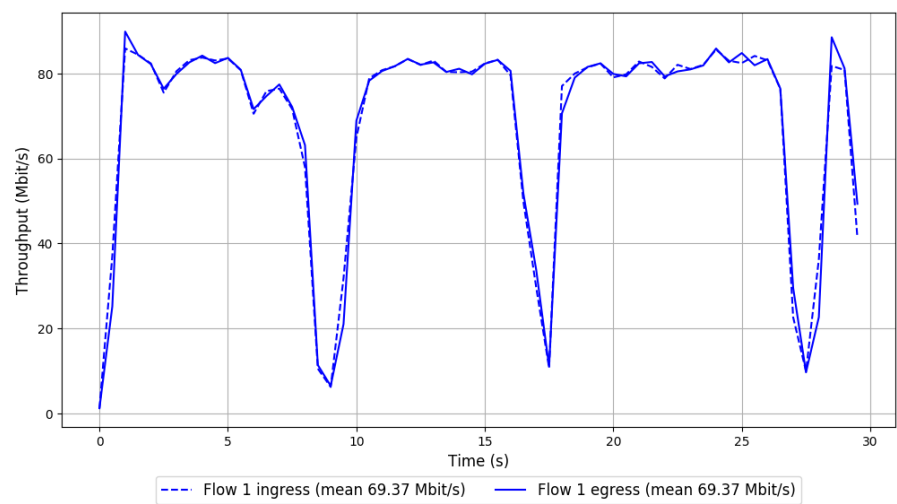
-- Flow 1:

Average throughput: 69.37 Mbit/s

95th percentile per-packet one-way delay: 50.373 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-09-21 16:40:29

End at: 2017-09-21 16:40:59

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.46 Mbit/s

95th percentile per-packet one-way delay: 50.834 ms

Loss rate: 0.00%

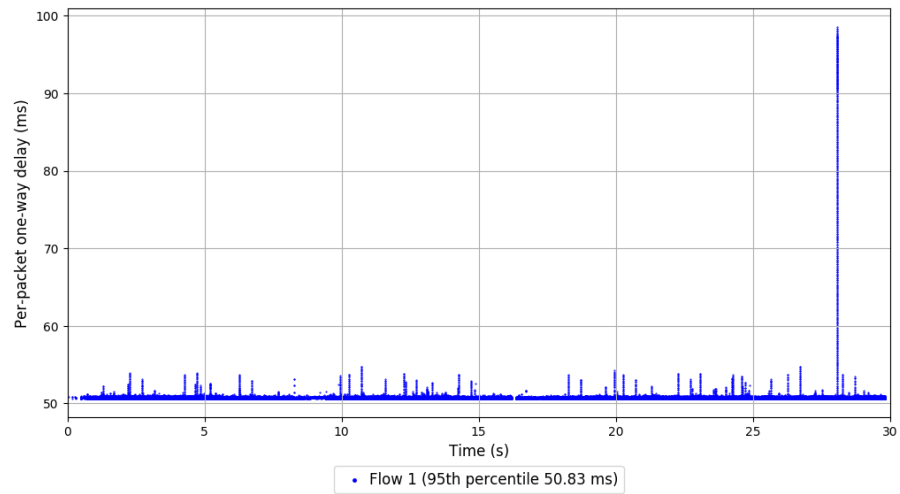
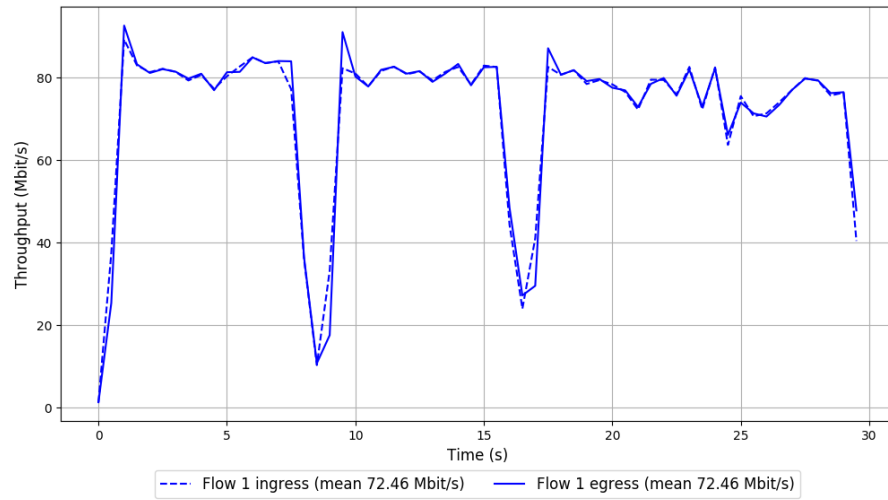
-- Flow 1:

Average throughput: 72.46 Mbit/s

95th percentile per-packet one-way delay: 50.834 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-09-21 16:51:36

End at: 2017-09-21 16:52:06

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.31 Mbit/s

95th percentile per-packet one-way delay: 50.322 ms

Loss rate: 0.00%

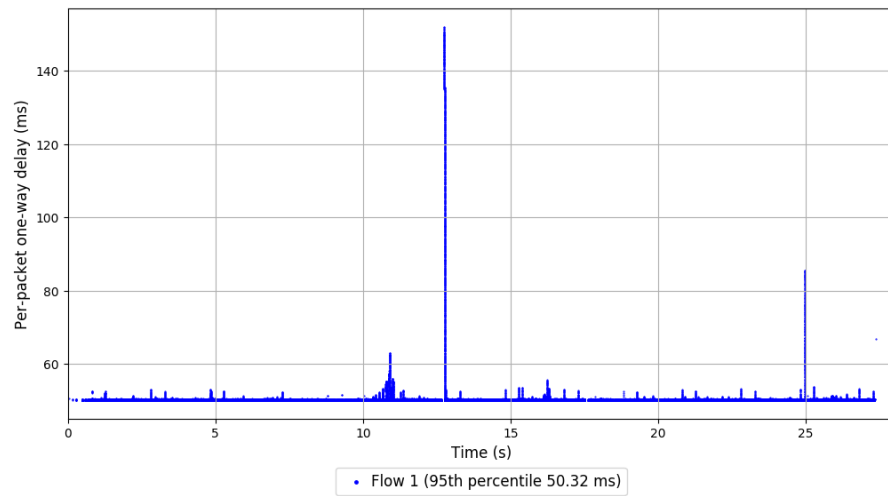
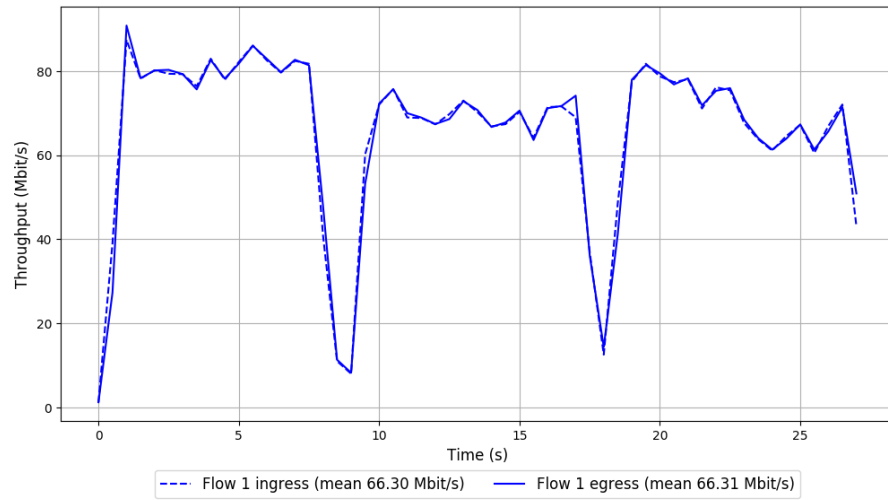
-- Flow 1:

Average throughput: 66.31 Mbit/s

95th percentile per-packet one-way delay: 50.322 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-09-21 17:02:27

End at: 2017-09-21 17:02:57

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.26 Mbit/s

95th percentile per-packet one-way delay: 50.304 ms

Loss rate: 0.00%

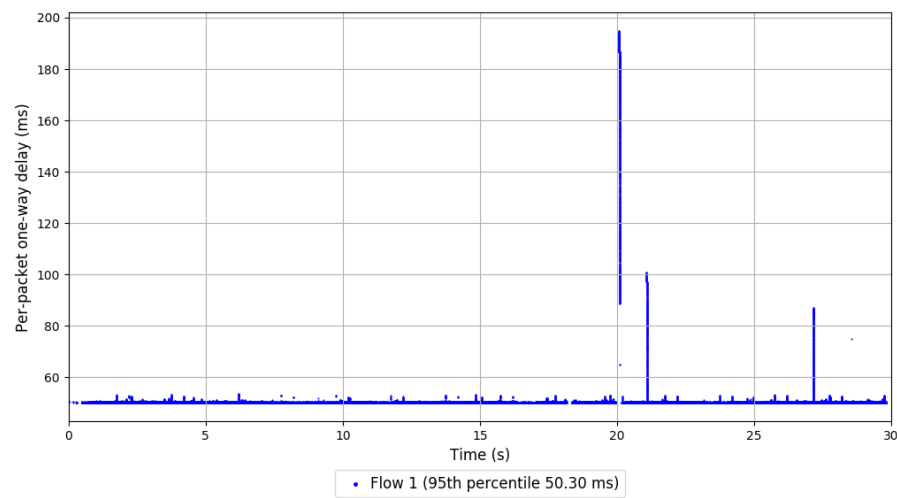
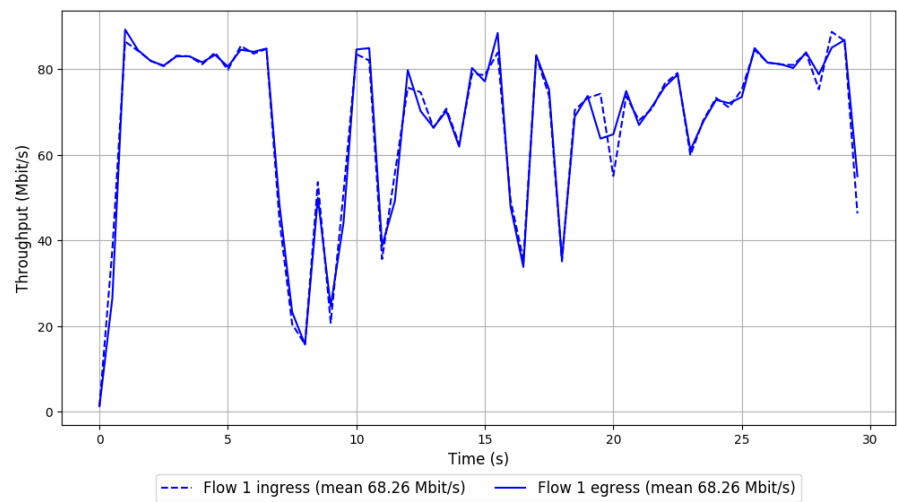
-- Flow 1:

Average throughput: 68.26 Mbit/s

95th percentile per-packet one-way delay: 50.304 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-09-21 17:13:02

End at: 2017-09-21 17:13:32

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.35 Mbit/s

95th percentile per-packet one-way delay: 50.317 ms

Loss rate: 0.00%

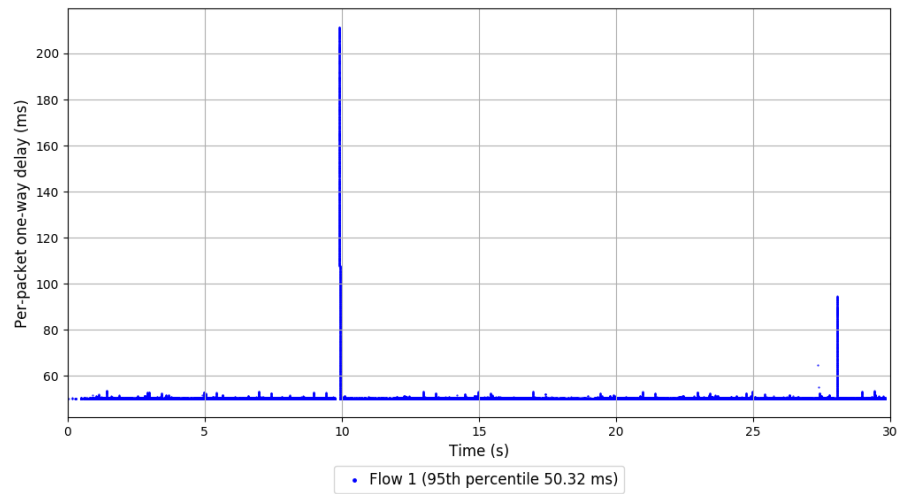
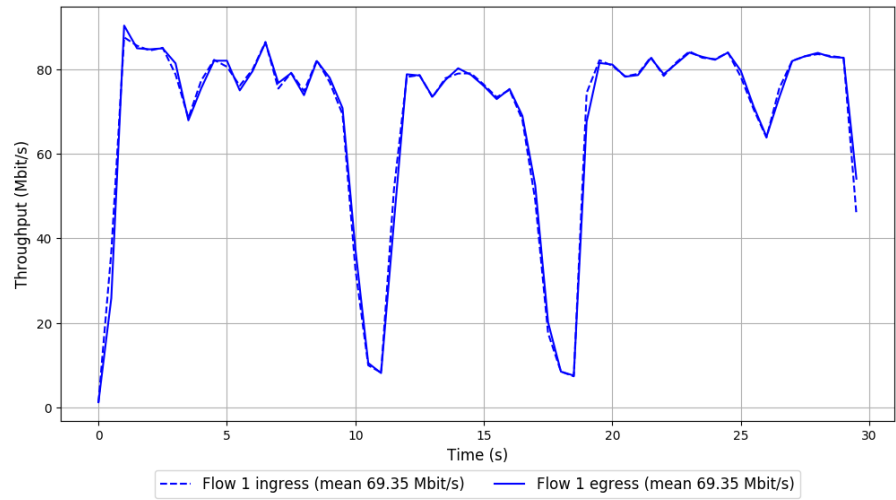
-- Flow 1:

Average throughput: 69.35 Mbit/s

95th percentile per-packet one-way delay: 50.317 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-09-21 17:24:00

End at: 2017-09-21 17:24:30

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.61 Mbit/s

95th percentile per-packet one-way delay: 51.045 ms

Loss rate: 0.00%

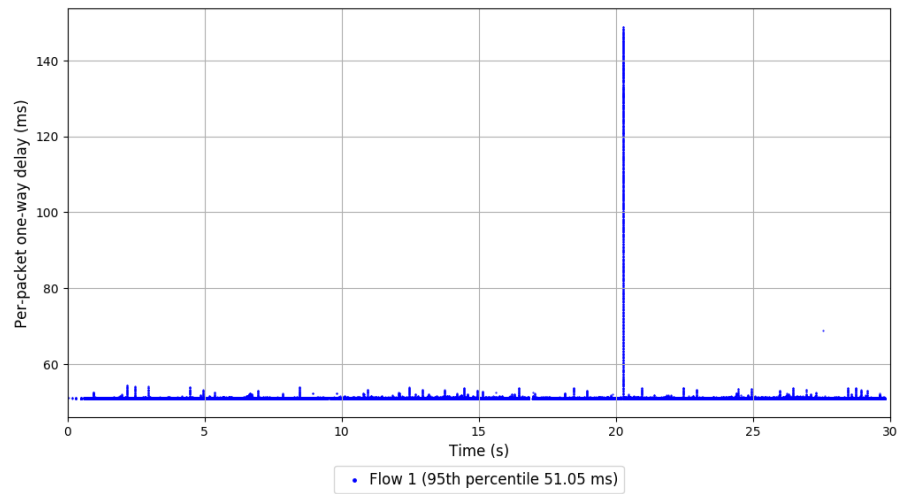
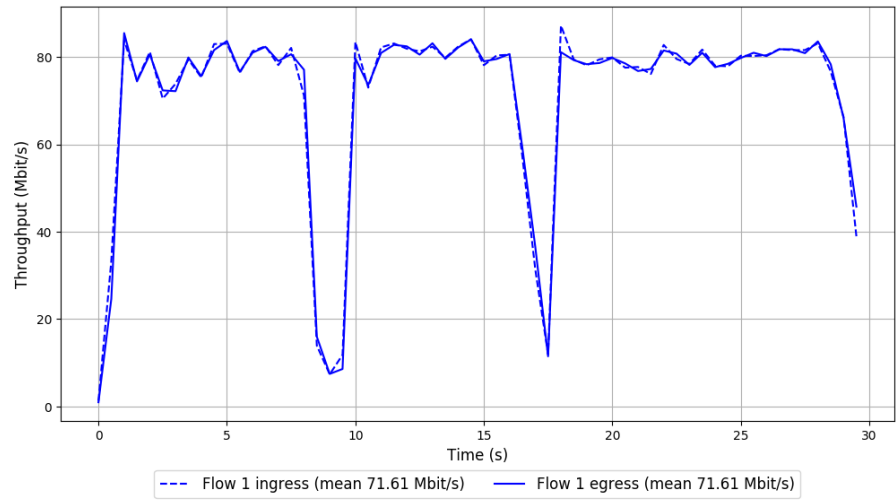
-- Flow 1:

Average throughput: 71.61 Mbit/s

95th percentile per-packet one-way delay: 51.045 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-09-21 17:34:08

End at: 2017-09-21 17:34:38

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.71 Mbit/s

95th percentile per-packet one-way delay: 50.328 ms

Loss rate: 0.00%

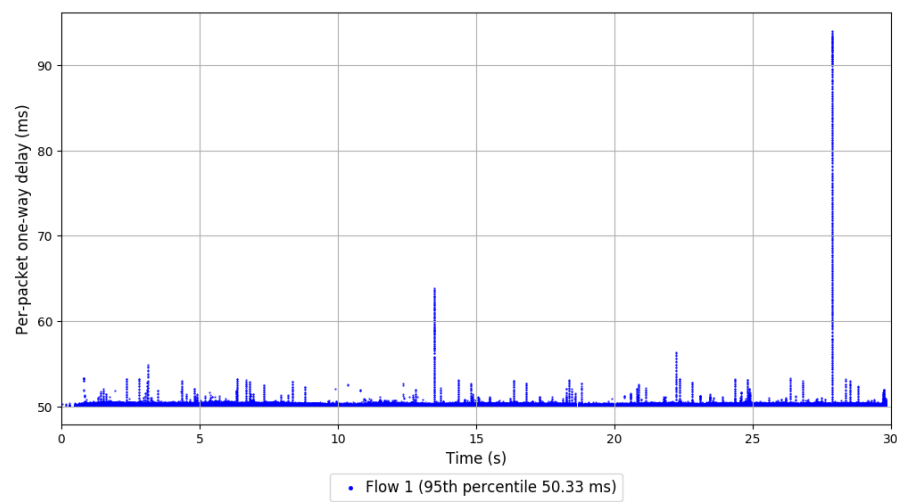
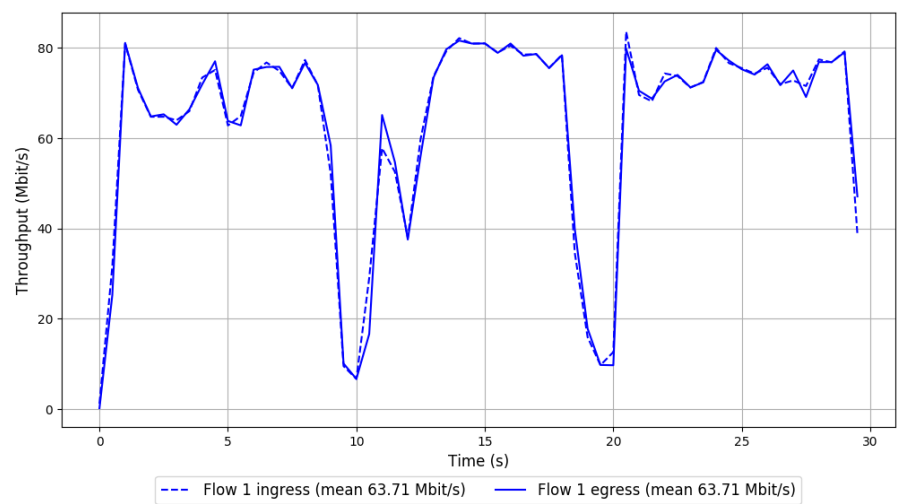
-- Flow 1:

Average throughput: 63.71 Mbit/s

95th percentile per-packet one-way delay: 50.328 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

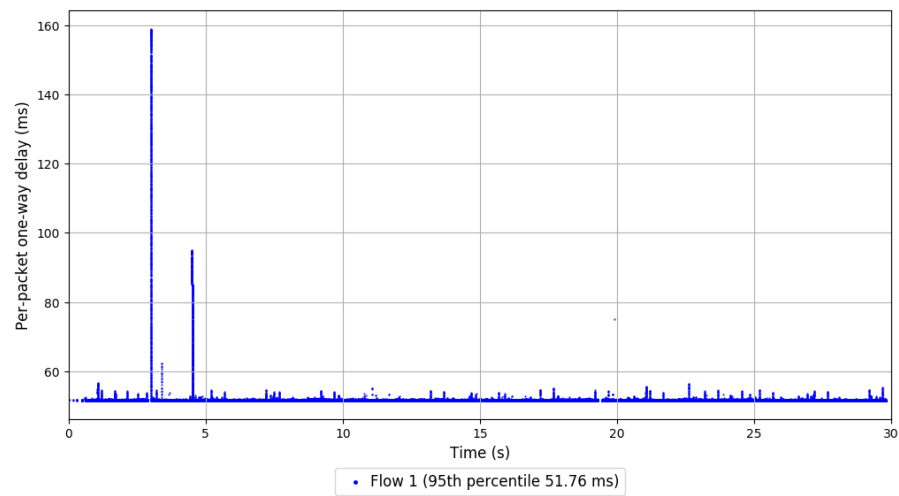
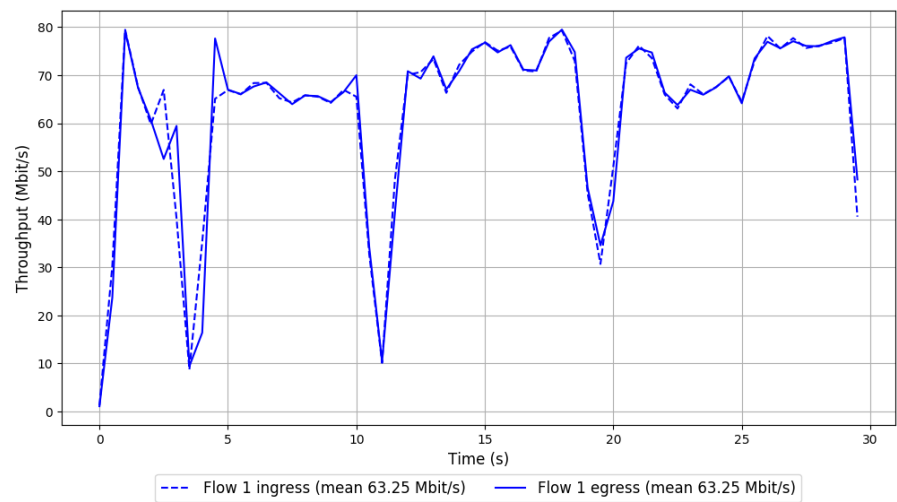


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-09-21 17:44:16
End at: 2017-09-21 17:44:46

# Below is generated by plot.py at 2017-09-21 19:18:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.25 Mbit/s
95th percentile per-packet one-way delay: 51.761 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.25 Mbit/s
95th percentile per-packet one-way delay: 51.761 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

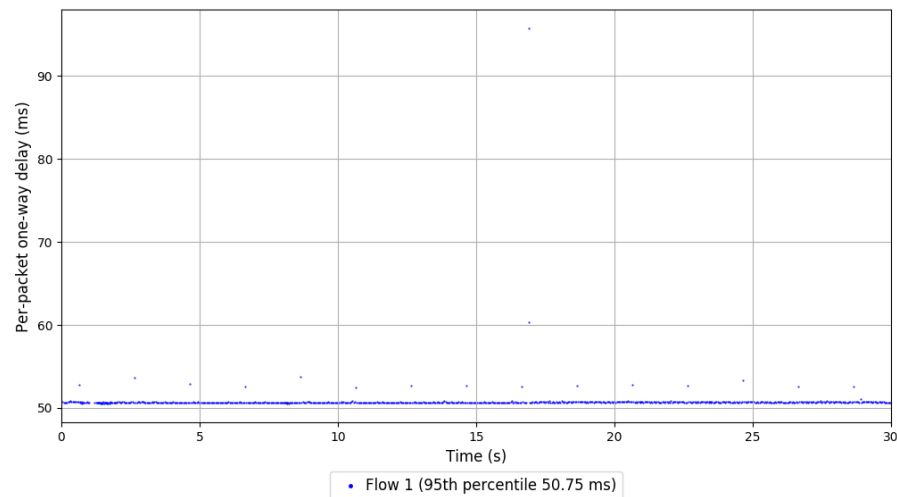
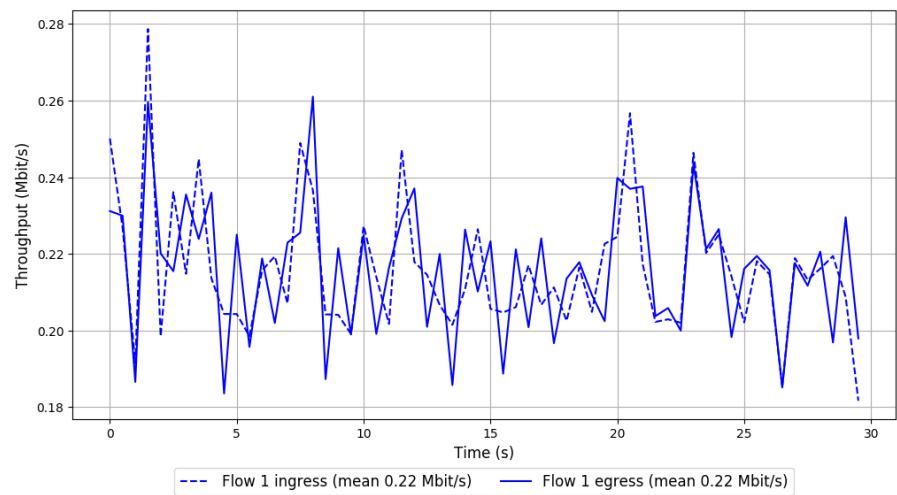


```
Run 1: Statistics of SCReAM

Start at: 2017-09-21 16:17:01
End at: 2017-09-21 16:17:31

# Below is generated by plot.py at 2017-09-21 19:18:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.746 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.746 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2017-09-21 16:27:30

End at: 2017-09-21 16:28:00

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.427 ms

Loss rate: 0.00%

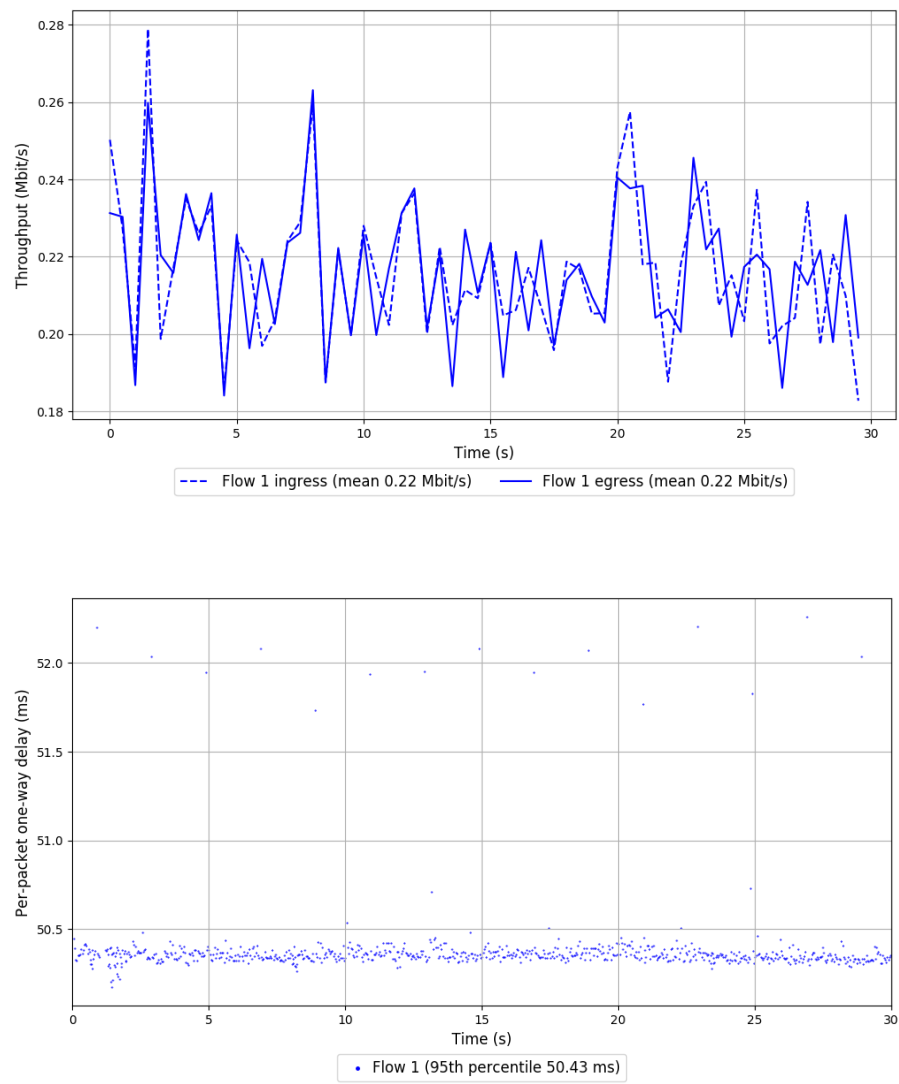
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.427 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-09-21 16:37:55

End at: 2017-09-21 16:38:25

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.467 ms

Loss rate: 0.00%

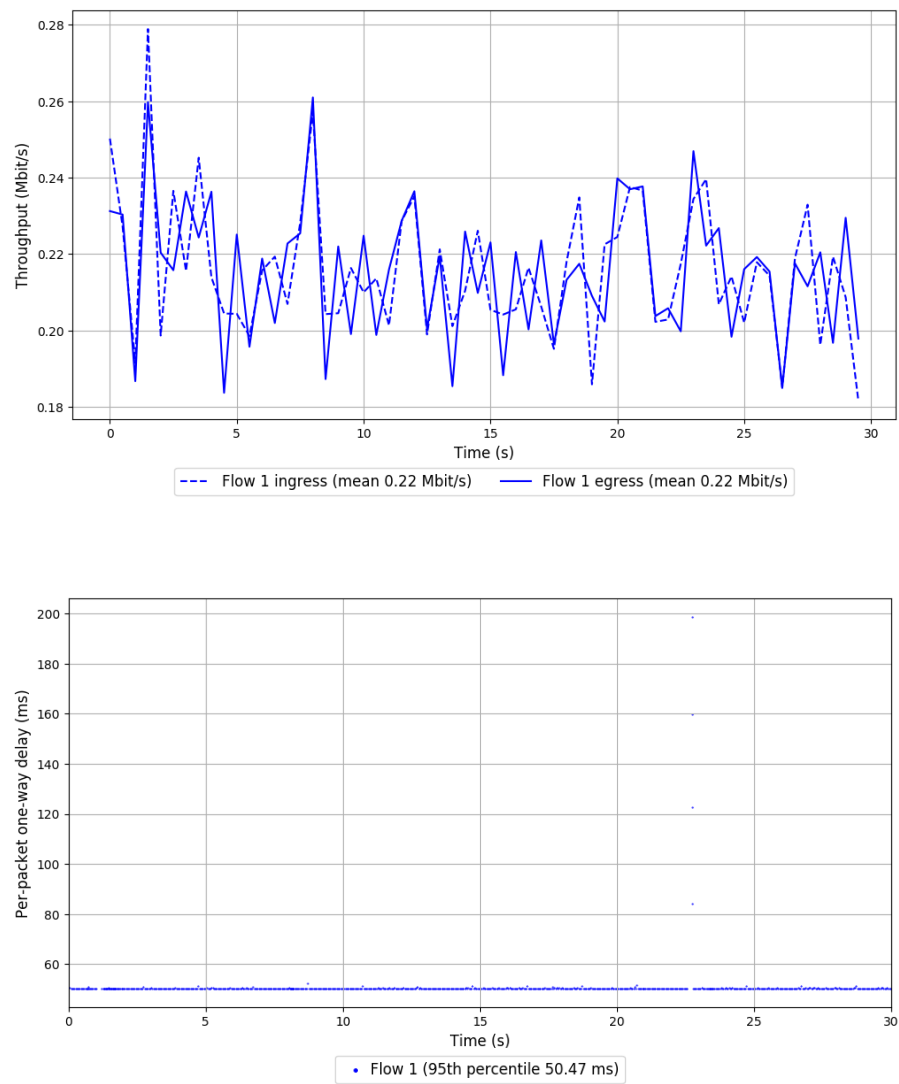
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.467 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-09-21 16:48:37

End at: 2017-09-21 16:49:07

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.431 ms

Loss rate: 0.00%

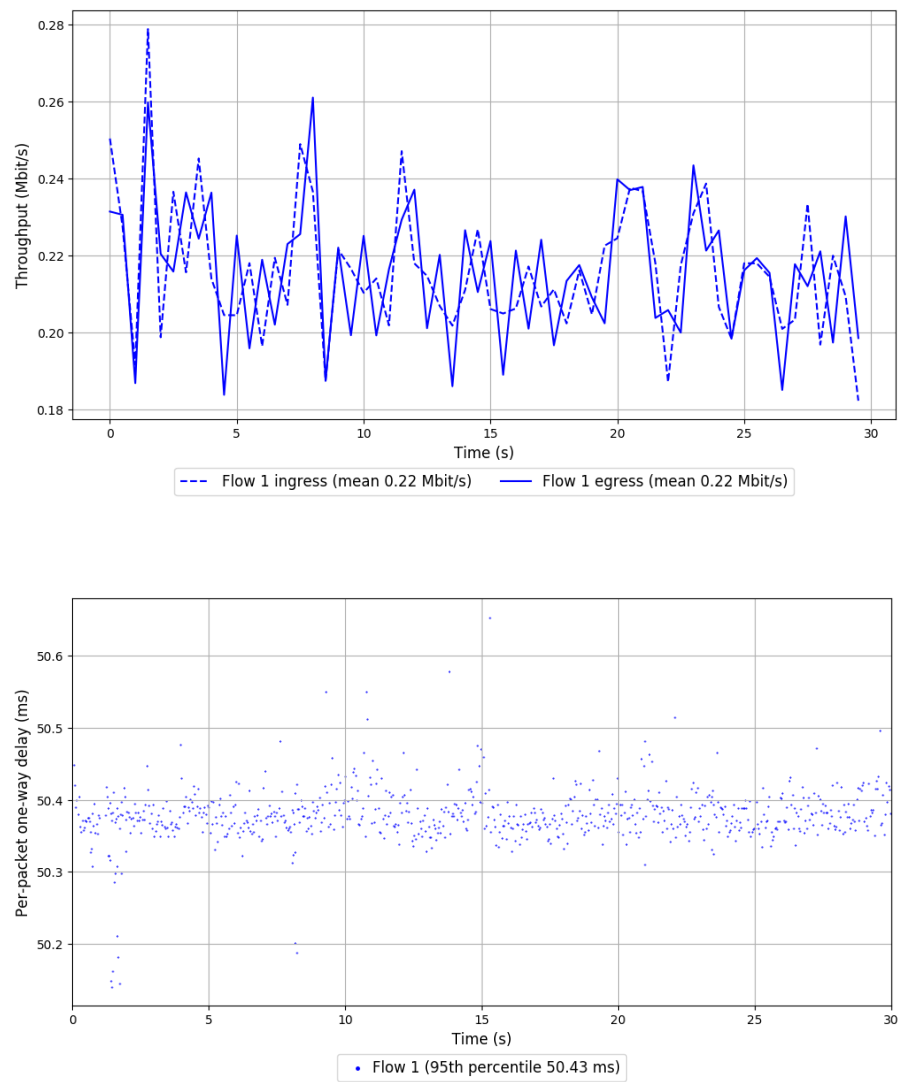
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.431 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-09-21 16:59:52

End at: 2017-09-21 17:00:22

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.399 ms

Loss rate: 0.00%

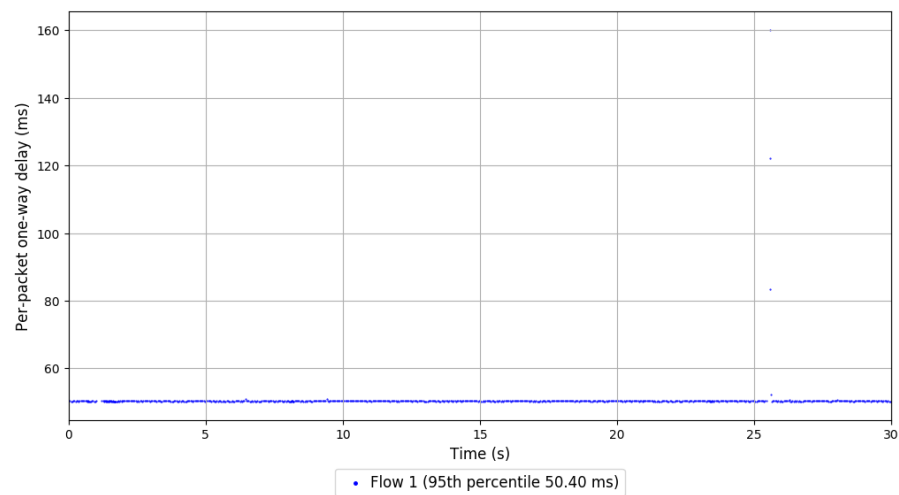
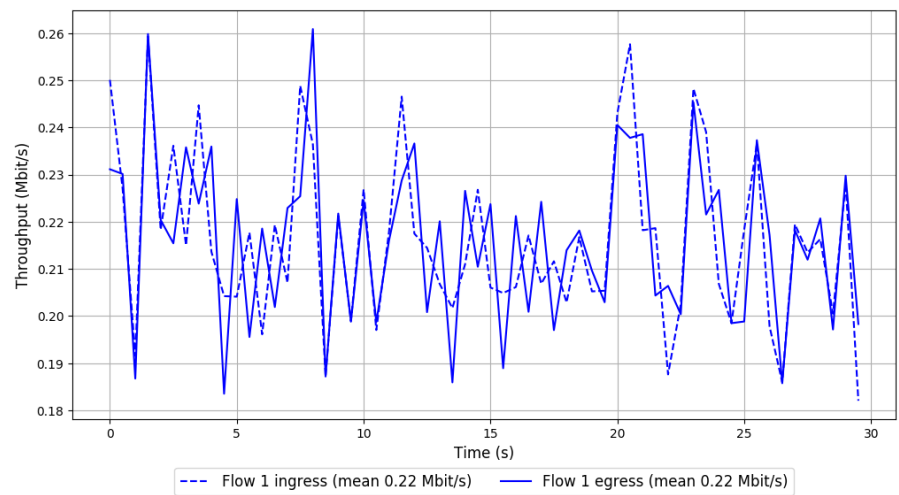
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.399 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

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

End at: 2017-09-21 17:10:51

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.739 ms

Loss rate: 0.00%

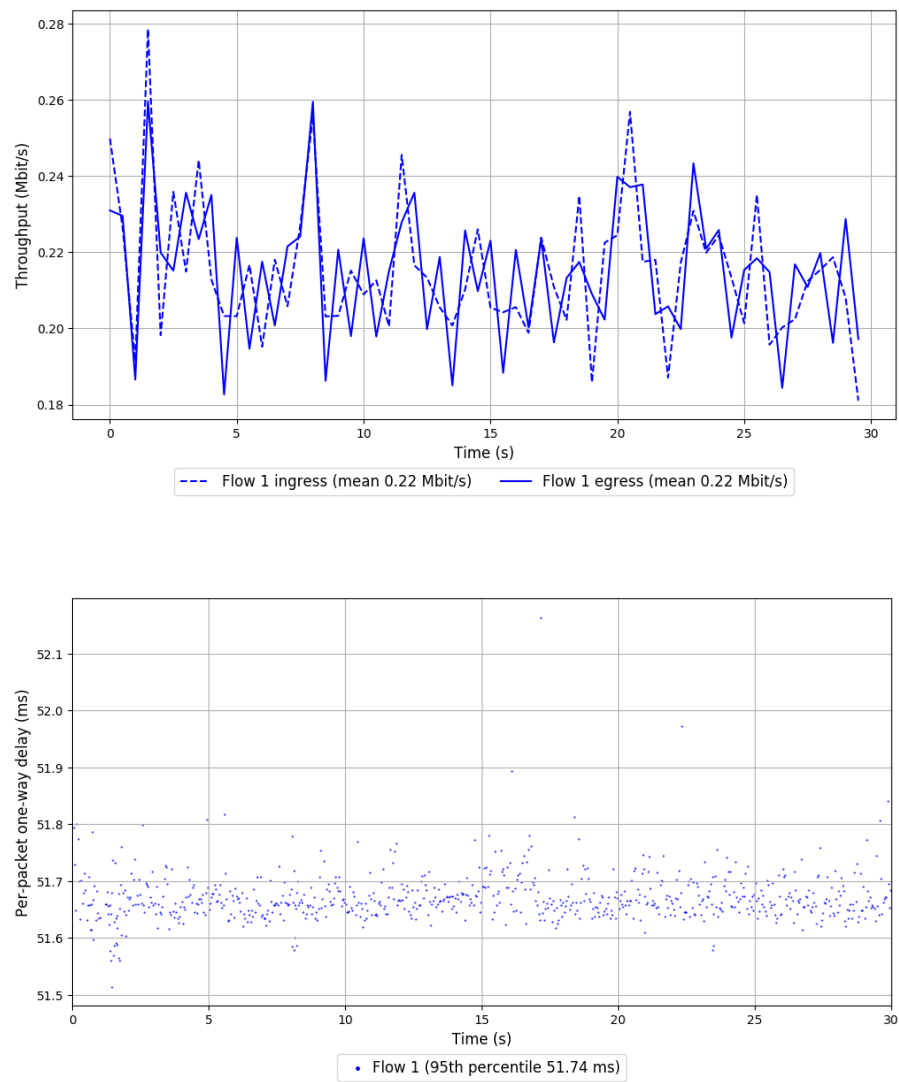
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.739 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-09-21 17:21:18

End at: 2017-09-21 17:21:48

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.425 ms

Loss rate: 0.00%

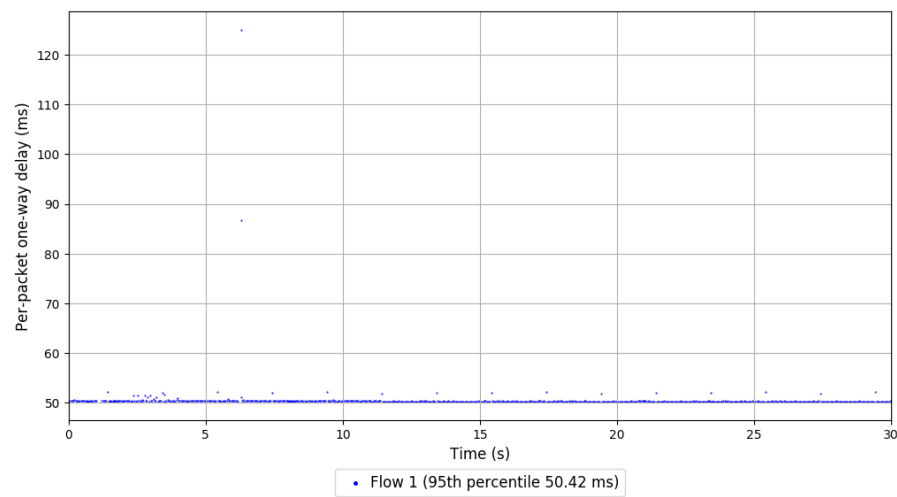
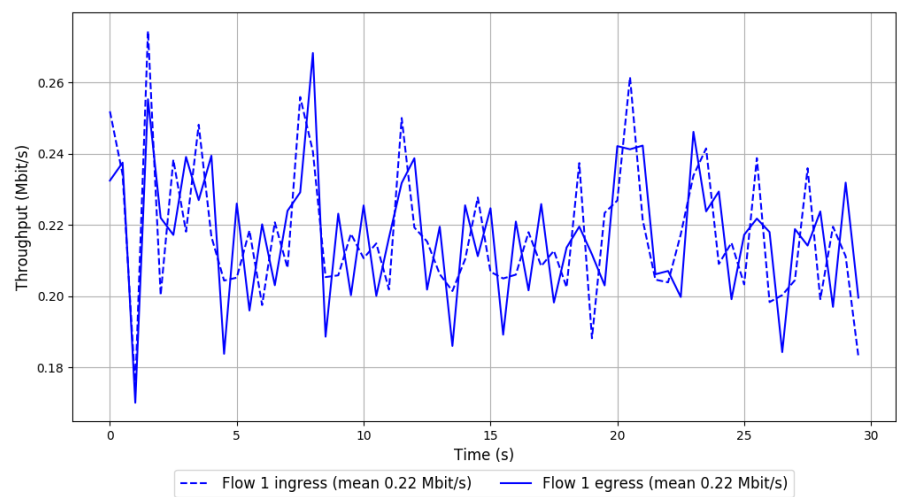
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.425 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-09-21 17:31:44

End at: 2017-09-21 17:32:14

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.741 ms

Loss rate: 0.00%

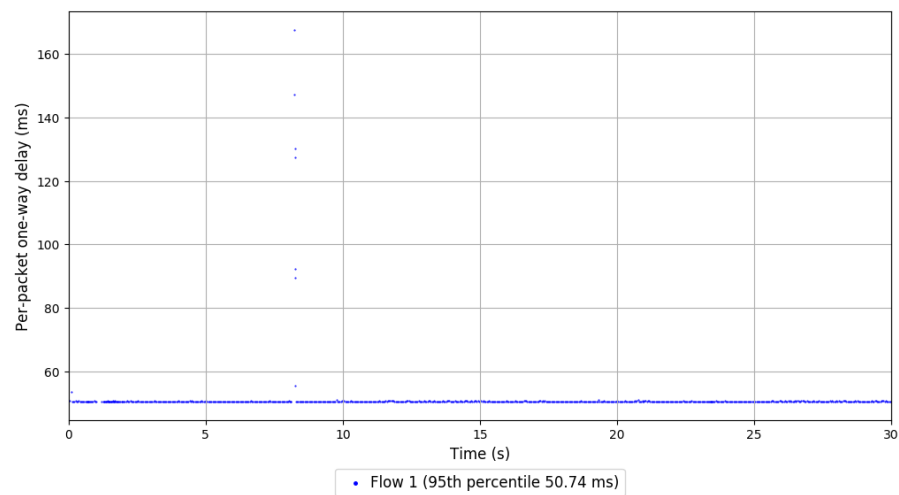
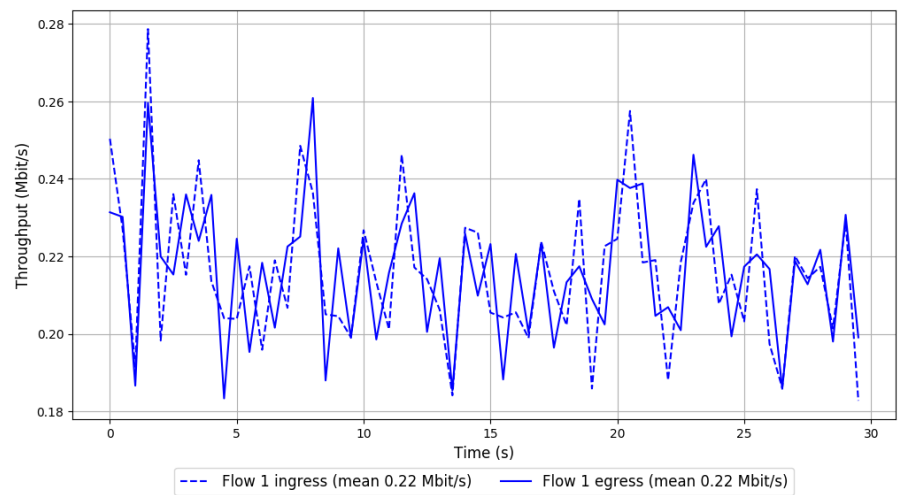
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.741 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-09-21 17:41:54

End at: 2017-09-21 17:42:24

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.542 ms

Loss rate: 0.00%

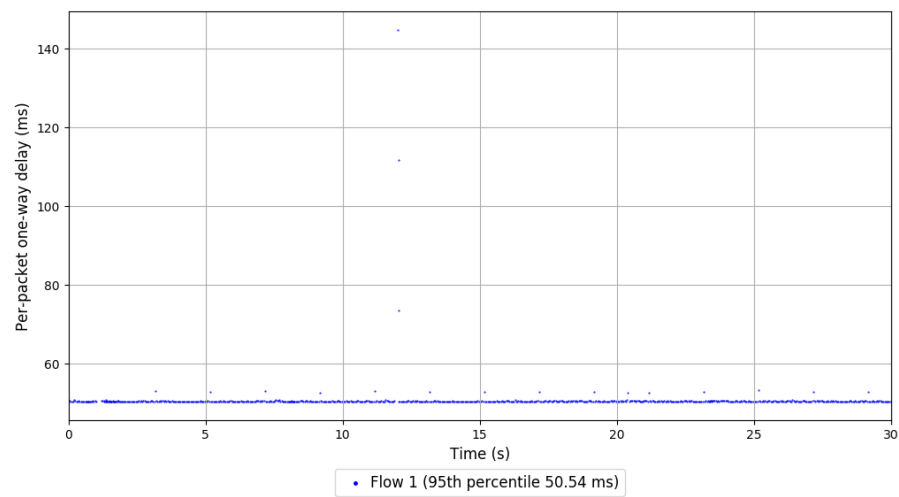
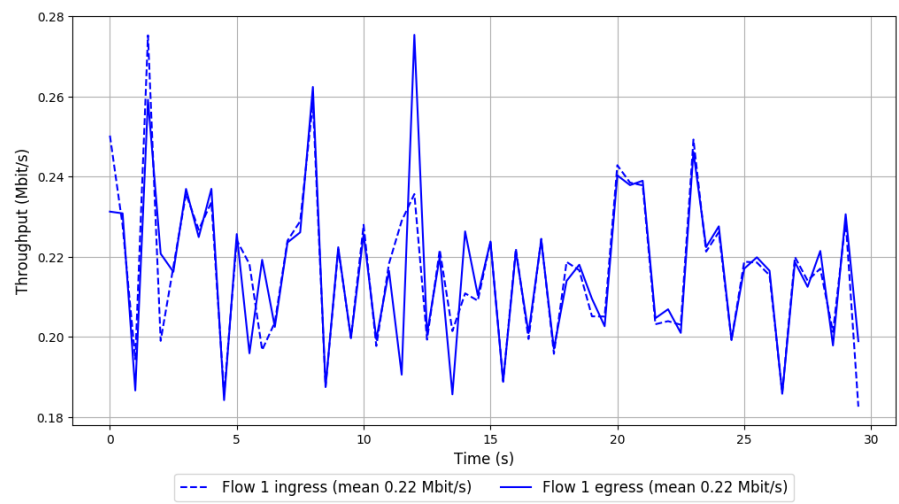
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.542 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-09-21 17:52:11

End at: 2017-09-21 17:52:41

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.680 ms

Loss rate: 0.00%

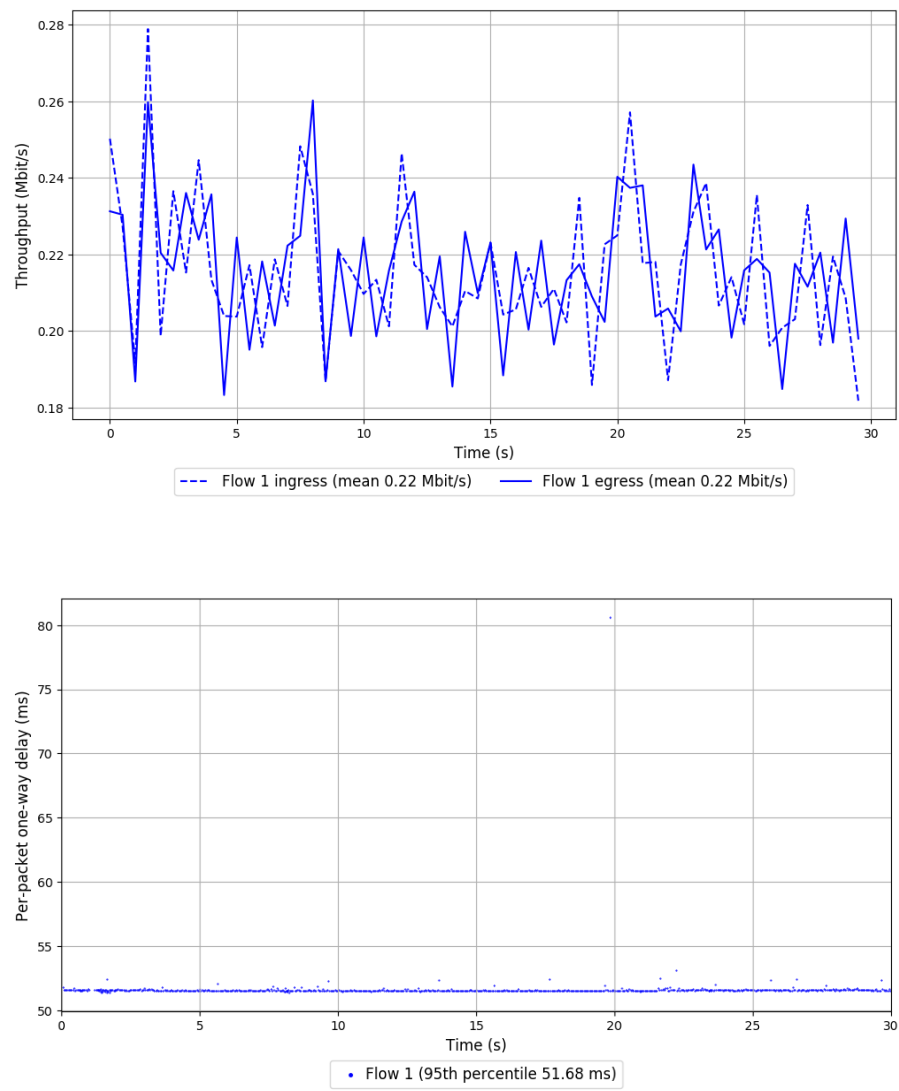
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.680 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

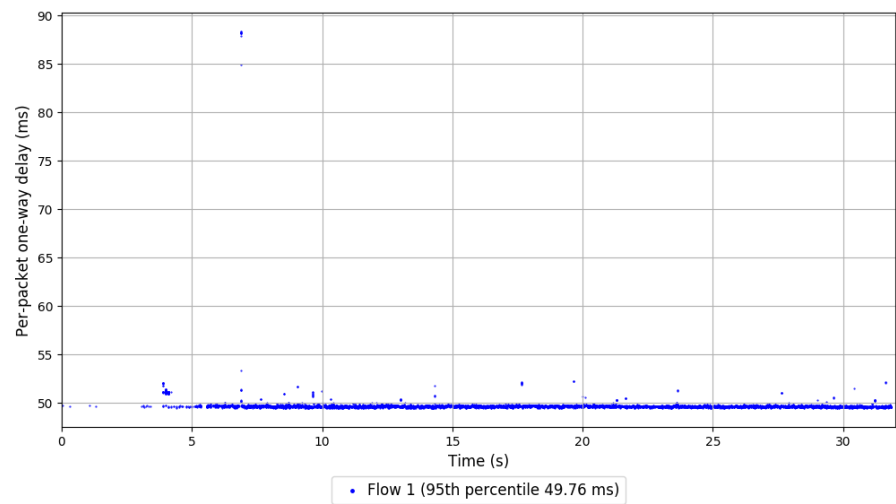
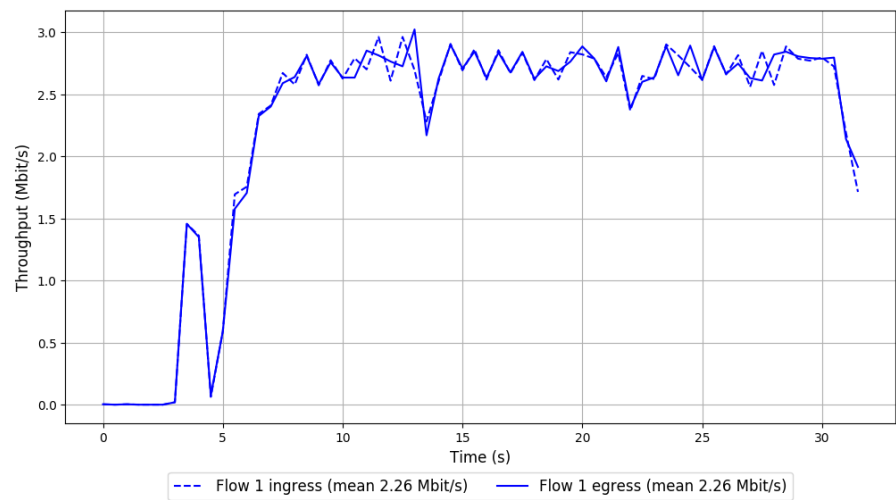


```
Run 1: Statistics of WebRTC media

Start at: 2017-09-21 16:15:09
End at: 2017-09-21 16:15:39

# Below is generated by plot.py at 2017-09-21 19:18:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 49.759 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 49.759 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-09-21 16:25:39

End at: 2017-09-21 16:26:09

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 50.804 ms

Loss rate: 0.00%

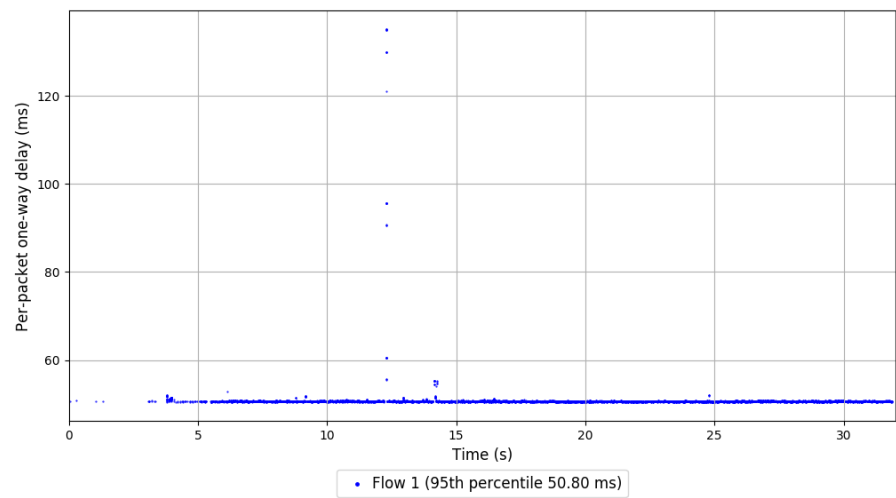
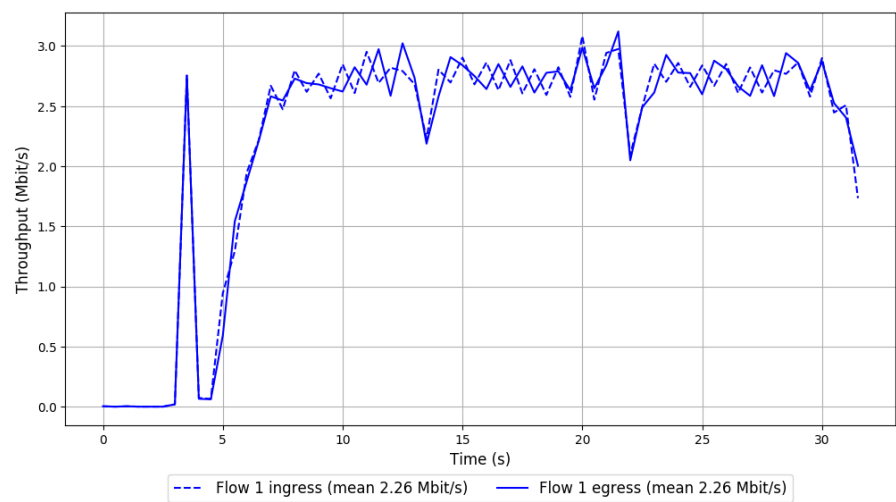
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 50.804 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-09-21 16:36:03

End at: 2017-09-21 16:36:33

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 50.959 ms

Loss rate: 0.00%

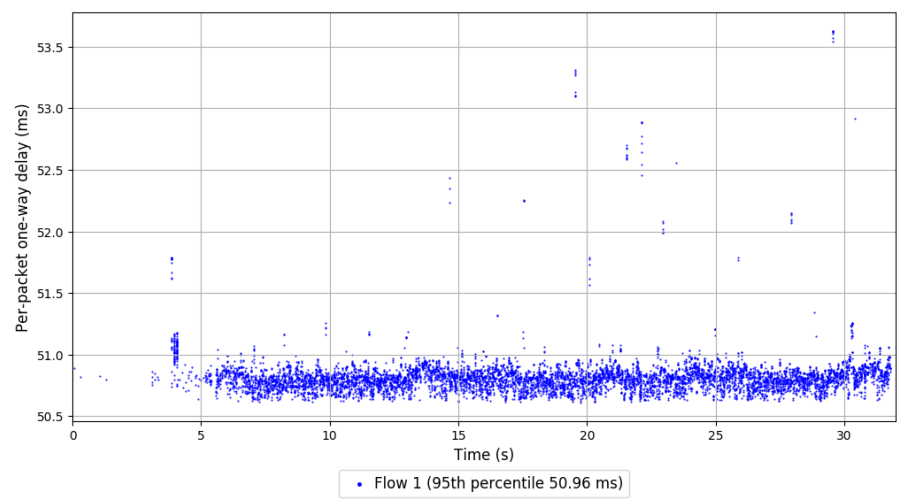
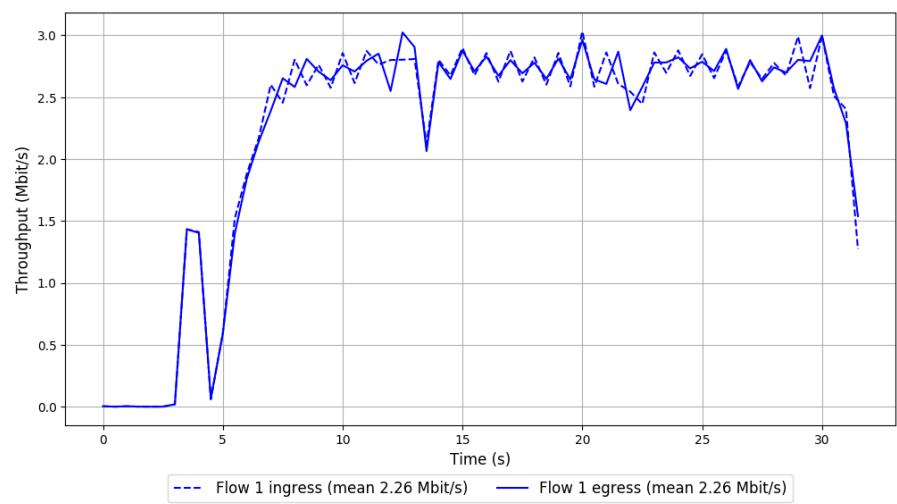
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 50.959 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-09-21 16:46:43

End at: 2017-09-21 16:47:13

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 50.516 ms

Loss rate: 0.00%

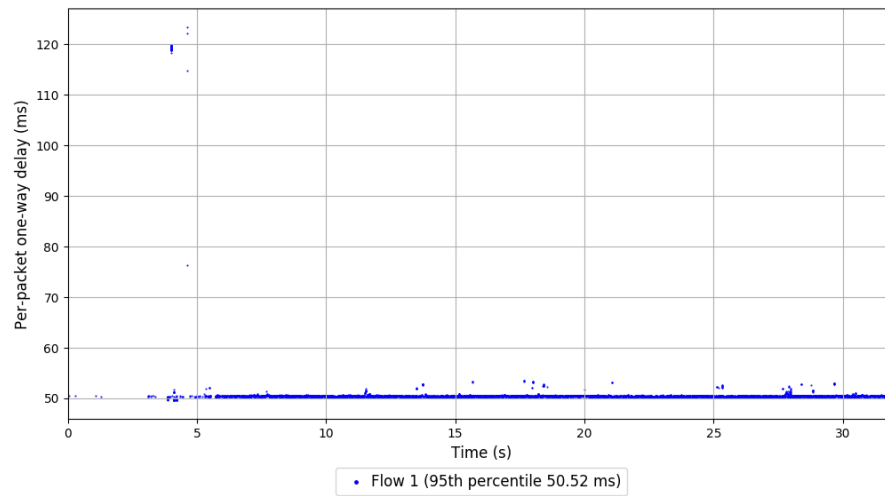
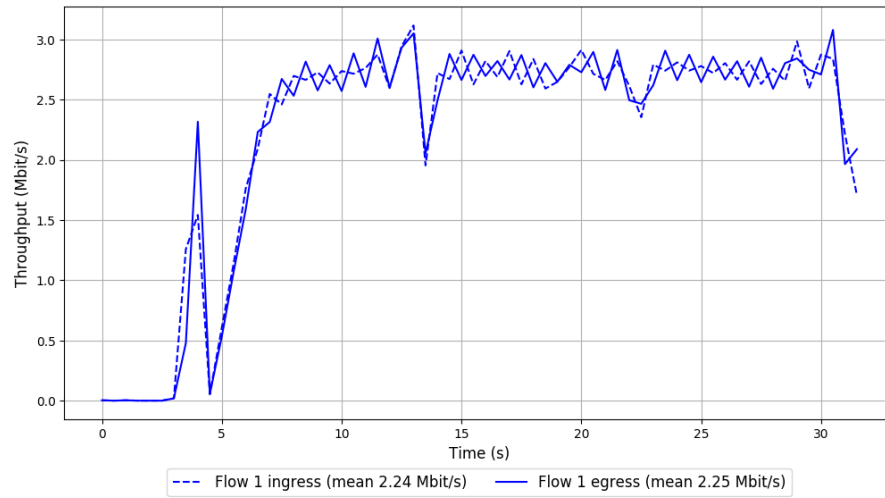
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 50.516 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-09-21 16:58:00

End at: 2017-09-21 16:58:30

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 50.914 ms

Loss rate: 0.00%

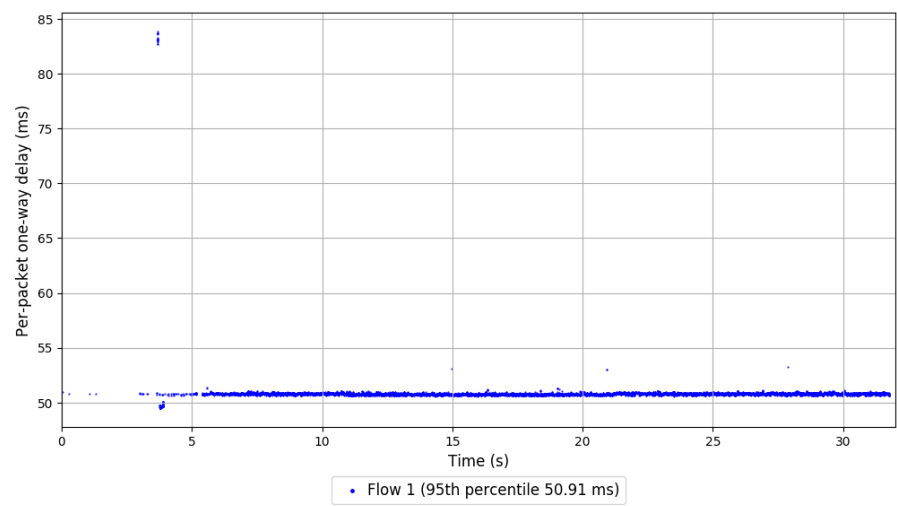
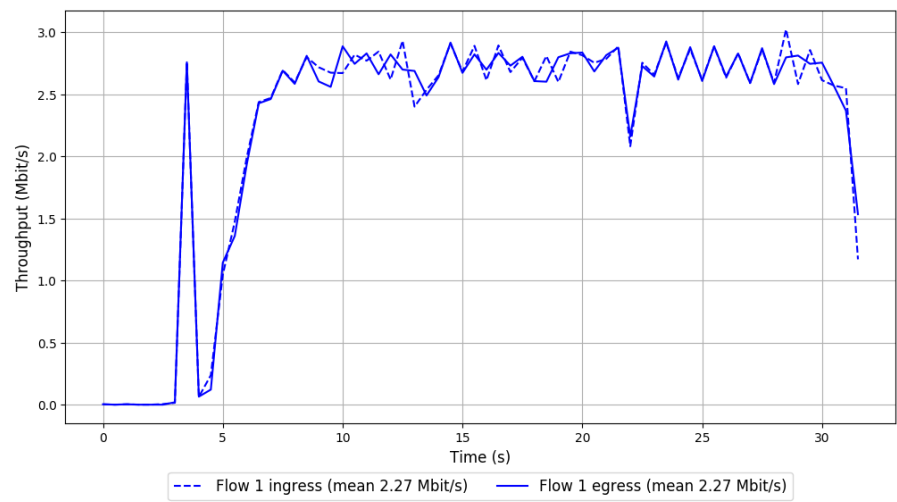
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 50.914 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-09-21 17:08:29

End at: 2017-09-21 17:08:59

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 51.007 ms

Loss rate: 0.00%

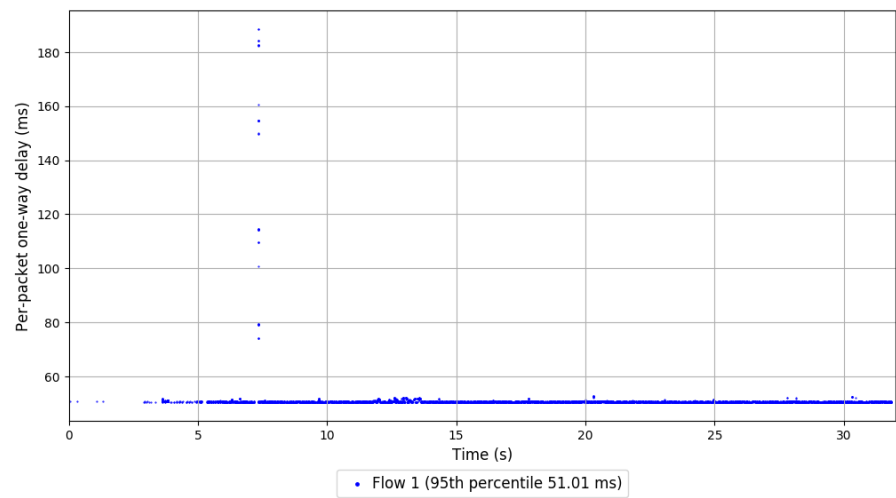
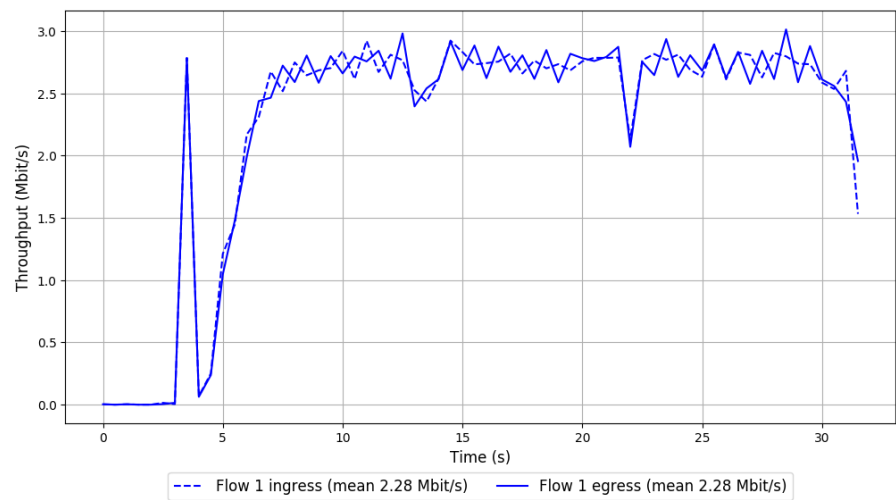
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 51.007 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-09-21 17:19:23

End at: 2017-09-21 17:19:53

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 50.880 ms

Loss rate: 0.00%

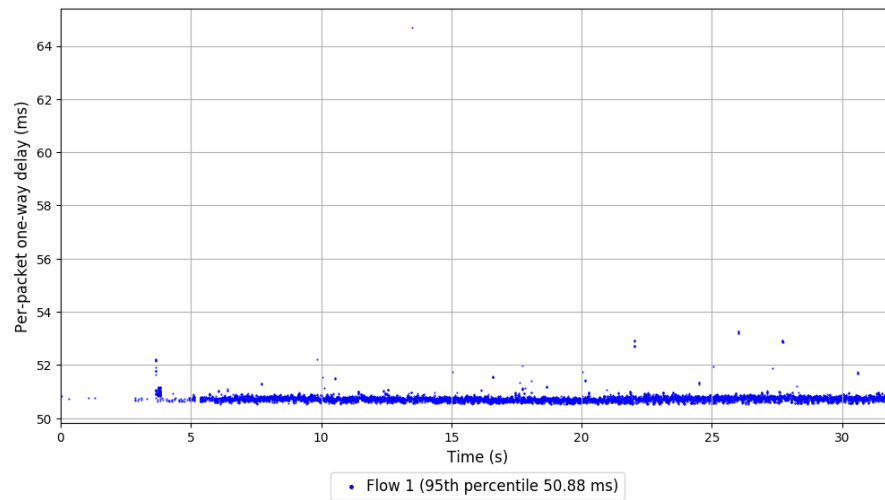
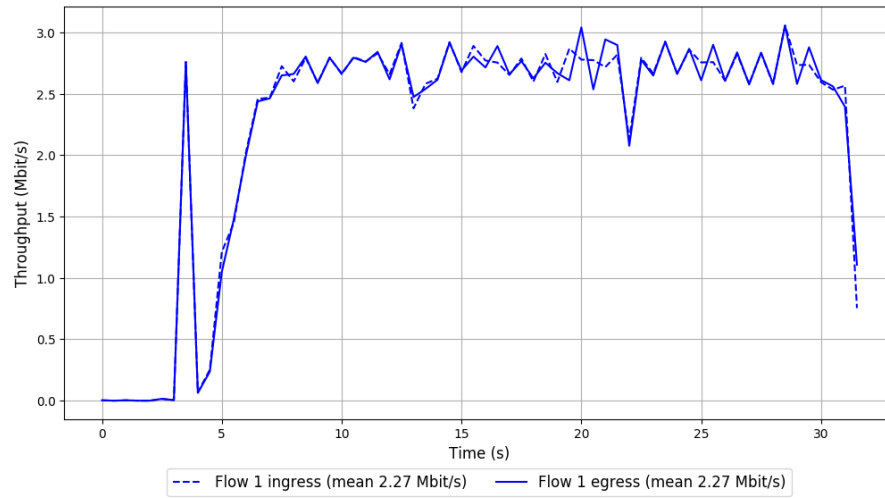
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 50.880 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-09-21 17:29:53

End at: 2017-09-21 17:30:23

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 51.889 ms

Loss rate: 0.00%

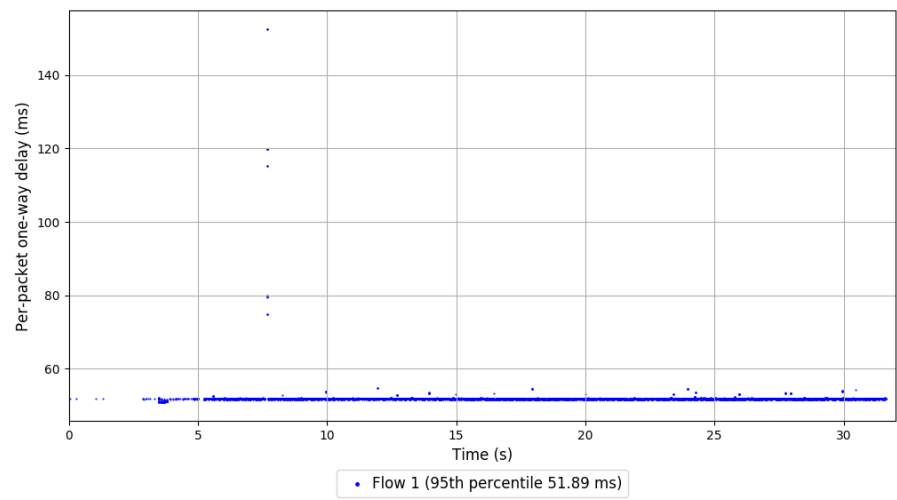
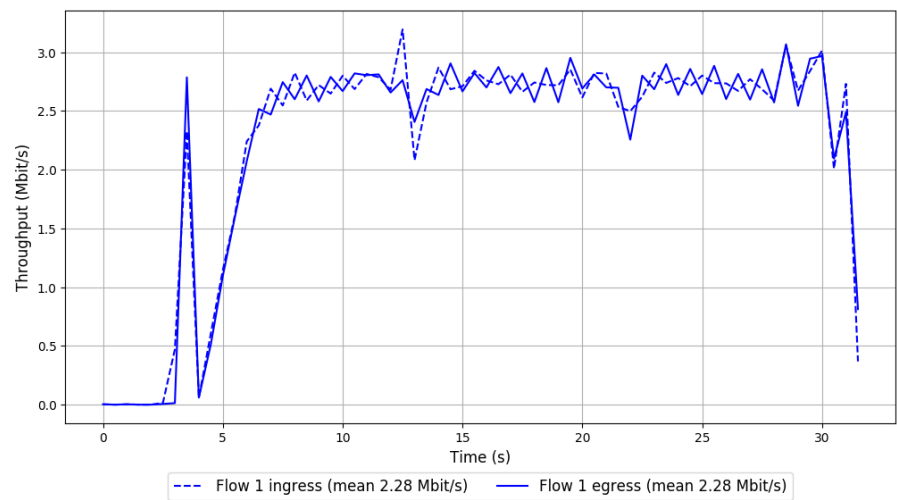
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 51.889 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-09-21 17:40:02

End at: 2017-09-21 17:40:32

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 49.854 ms

Loss rate: 0.00%

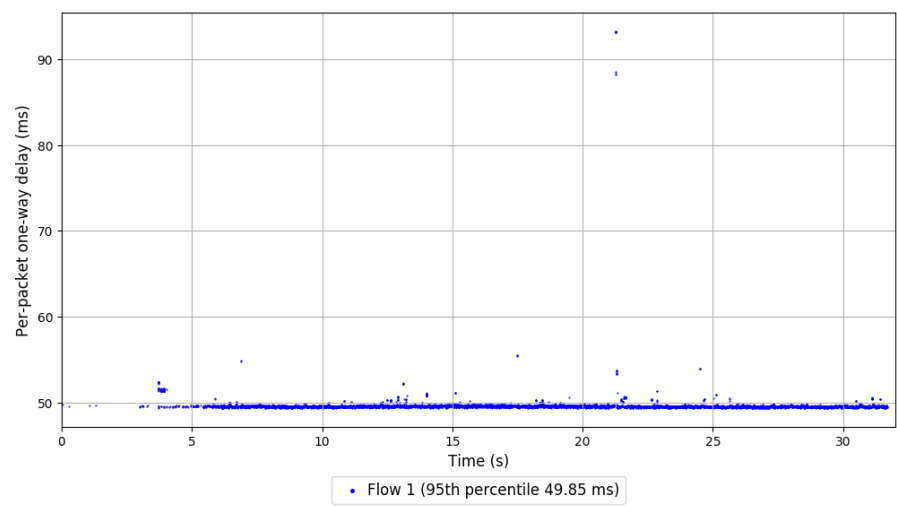
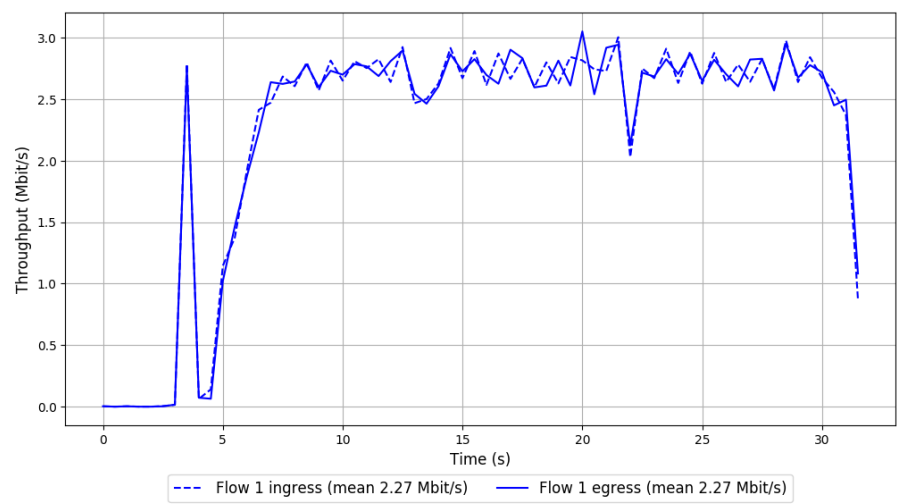
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 49.854 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-09-21 17:50:20

End at: 2017-09-21 17:50:50

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 50.834 ms

Loss rate: 0.00%

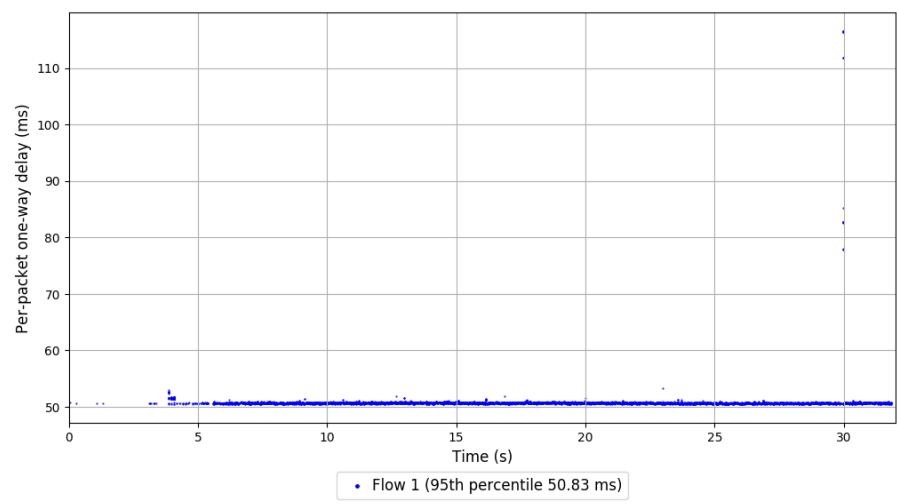
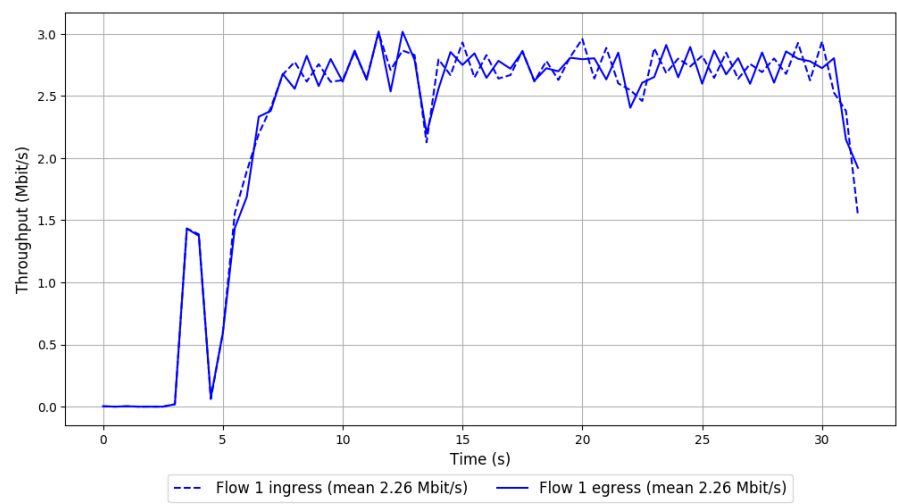
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 50.834 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

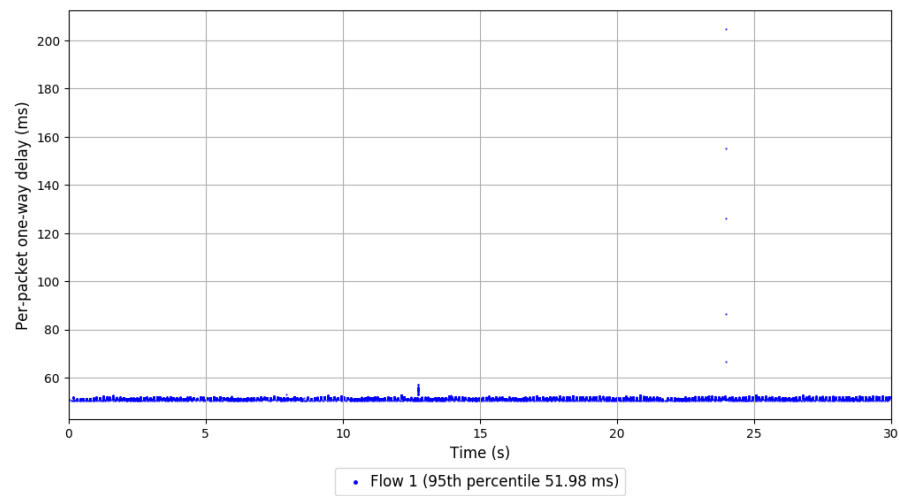
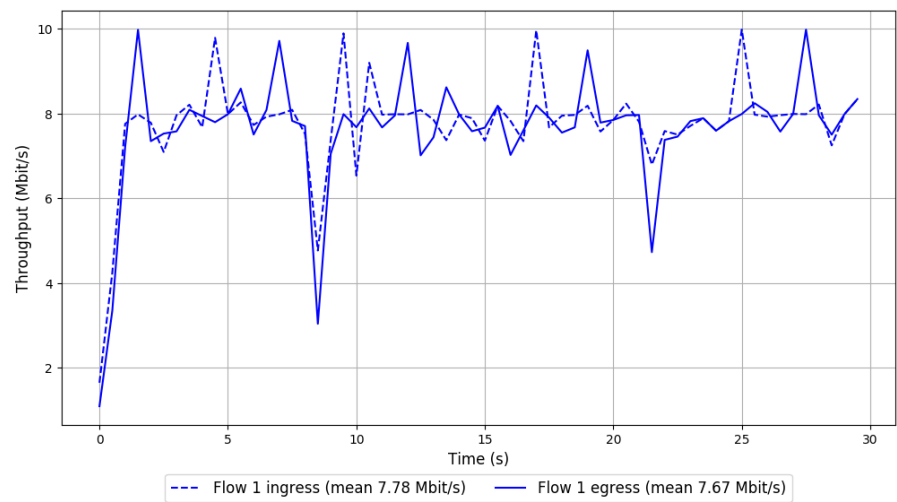


```
Run 1: Statistics of Sprout

Start at: 2017-09-21 16:16:23
End at: 2017-09-21 16:16:54

# Below is generated by plot.py at 2017-09-21 19:18:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.67 Mbit/s
95th percentile per-packet one-way delay: 51.975 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 7.67 Mbit/s
95th percentile per-packet one-way delay: 51.975 ms
Loss rate: 1.43%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-09-21 16:26:53

End at: 2017-09-21 16:27:23

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 51.847 ms

Loss rate: 0.48%

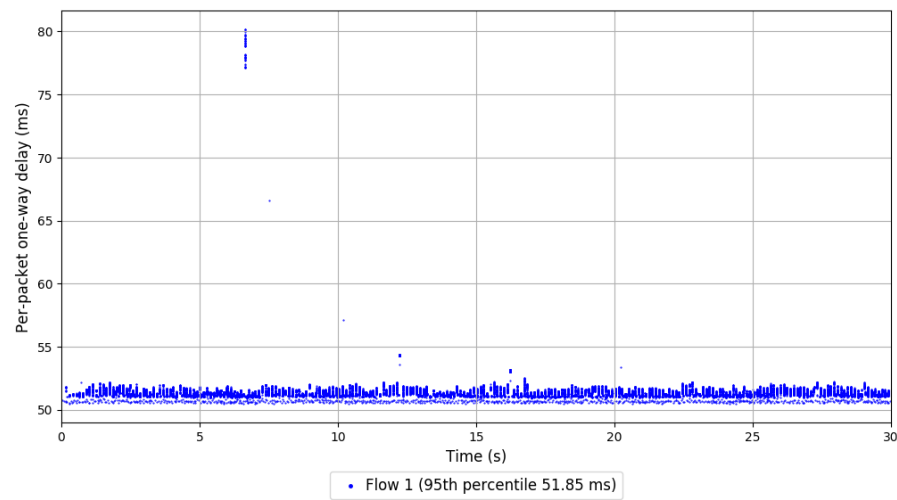
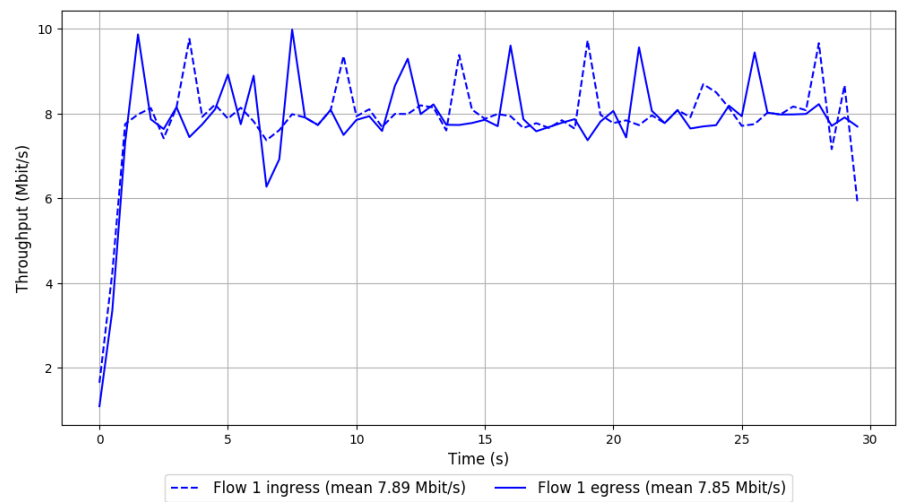
-- Flow 1:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 51.847 ms

Loss rate: 0.48%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-09-21 16:37:17

End at: 2017-09-21 16:37:47

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 51.833 ms

Loss rate: 1.34%

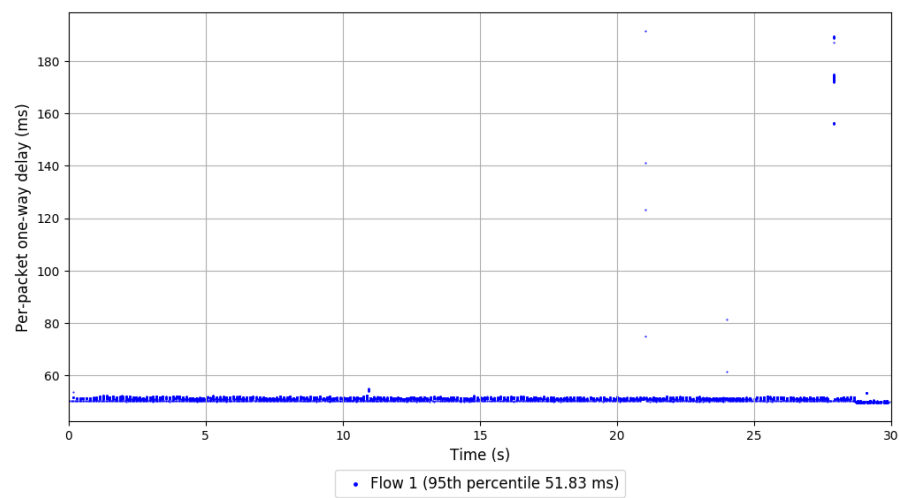
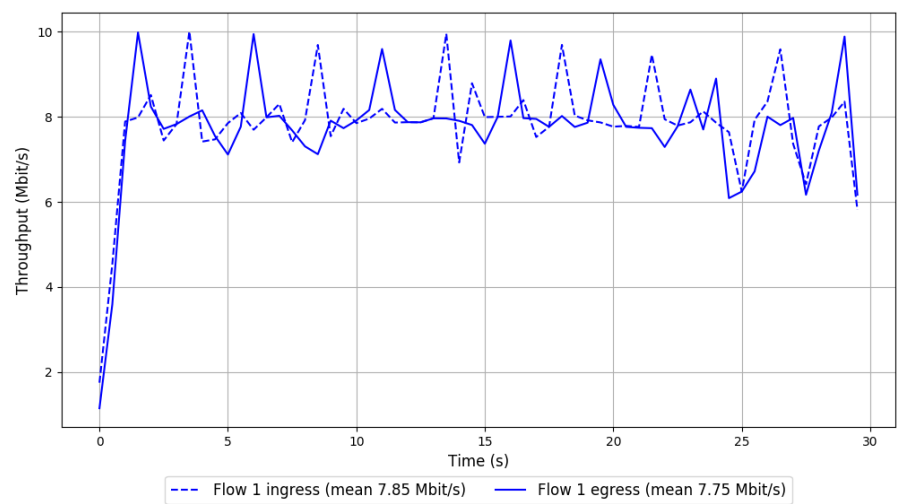
-- Flow 1:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 51.833 ms

Loss rate: 1.34%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-09-21 16:47:59

End at: 2017-09-21 16:48:29

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 50.379 ms

Loss rate: 0.21%

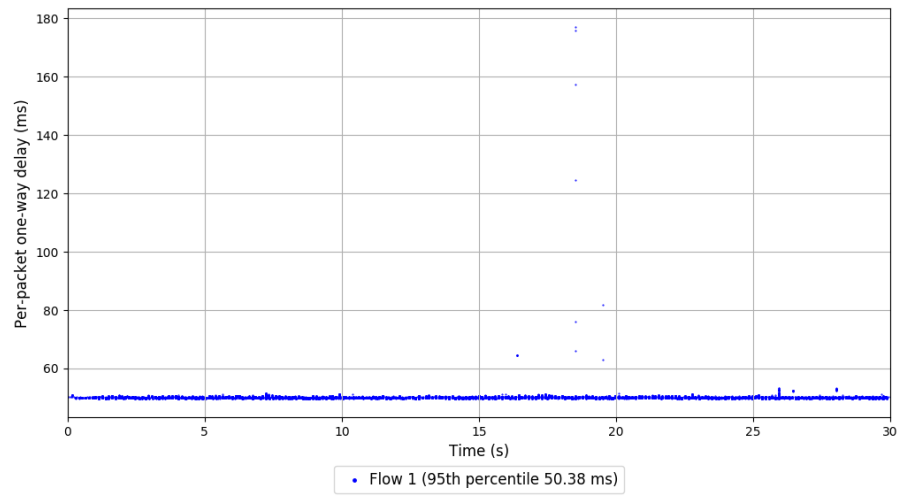
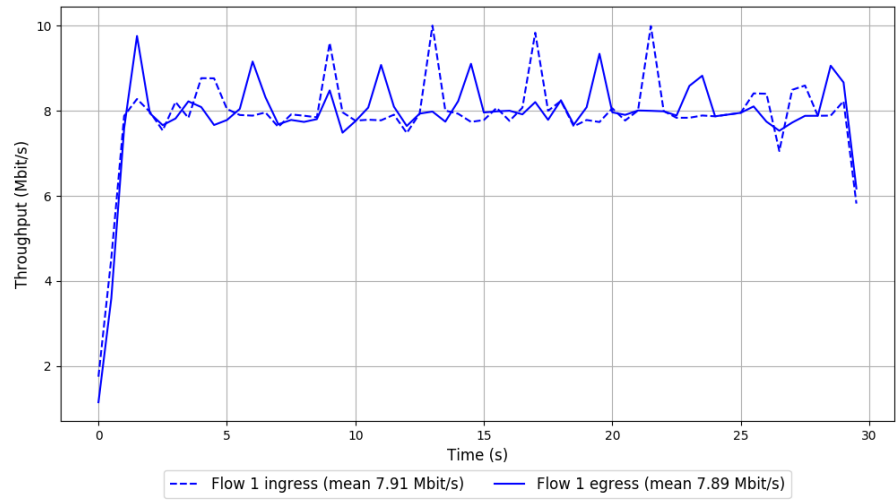
-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 50.379 ms

Loss rate: 0.21%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-09-21 16:59:15

End at: 2017-09-21 16:59:45

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 50.686 ms

Loss rate: 1.33%

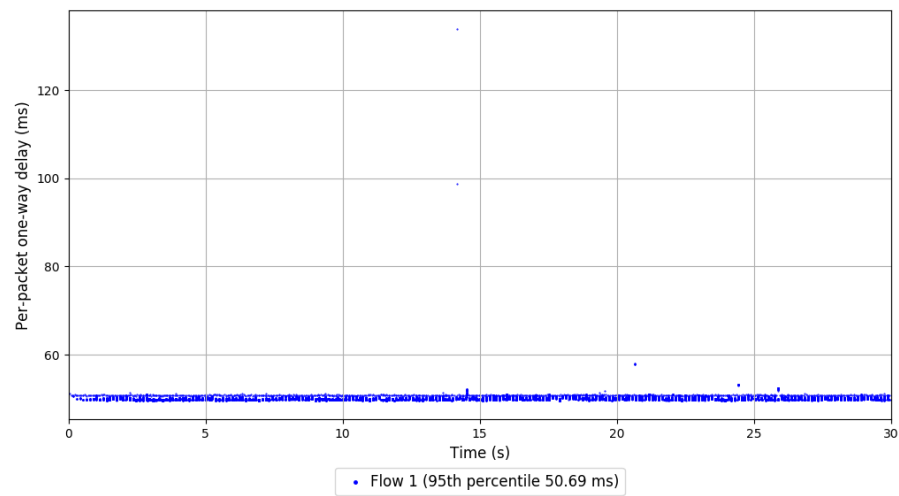
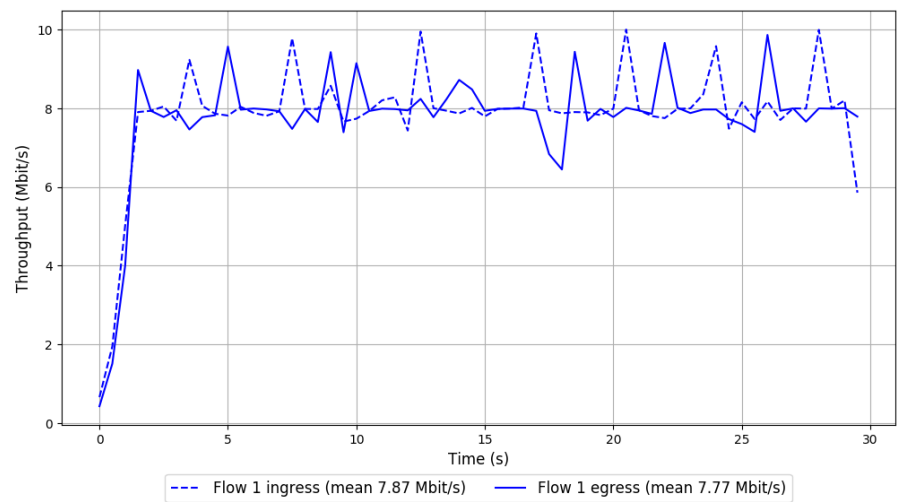
-- Flow 1:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 50.686 ms

Loss rate: 1.33%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-09-21 17:09:43

End at: 2017-09-21 17:10:13

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 51.763 ms

Loss rate: 0.93%

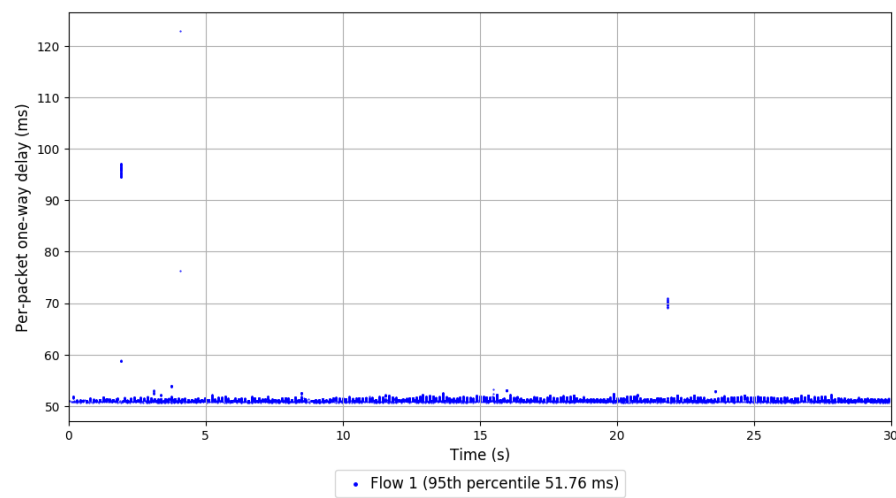
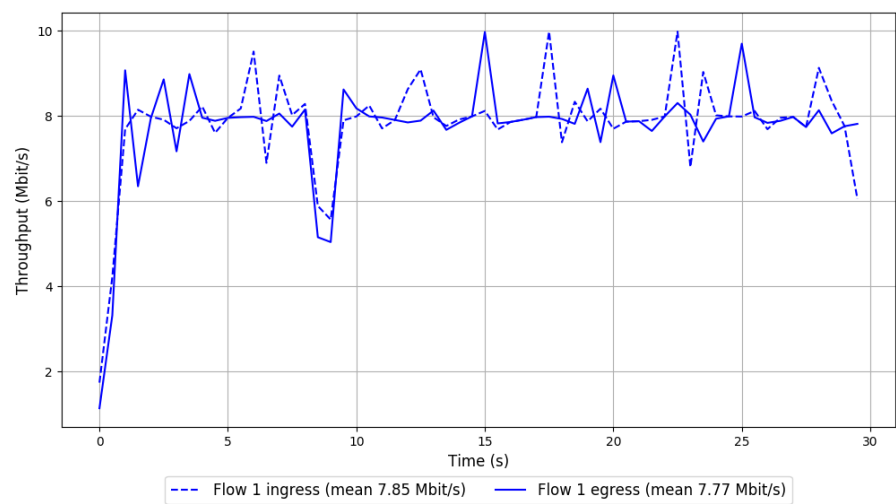
-- Flow 1:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 51.763 ms

Loss rate: 0.93%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-09-21 17:20:40

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

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 51.729 ms

Loss rate: 1.04%

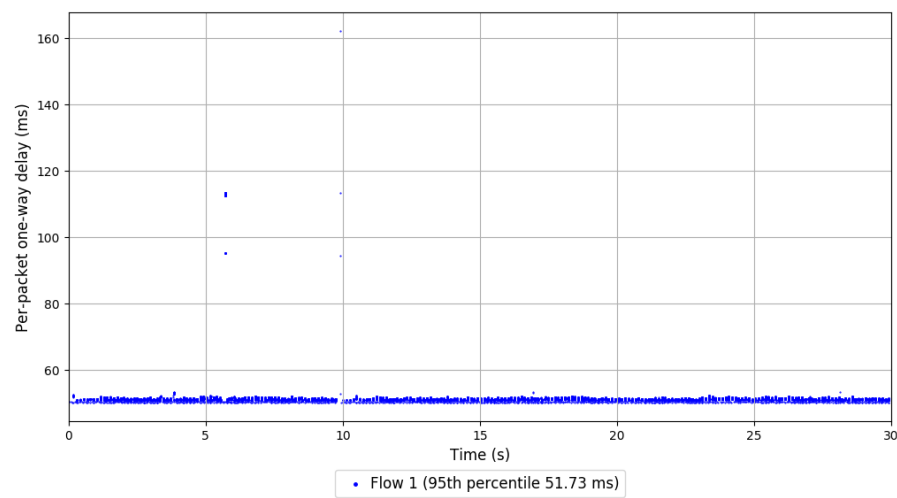
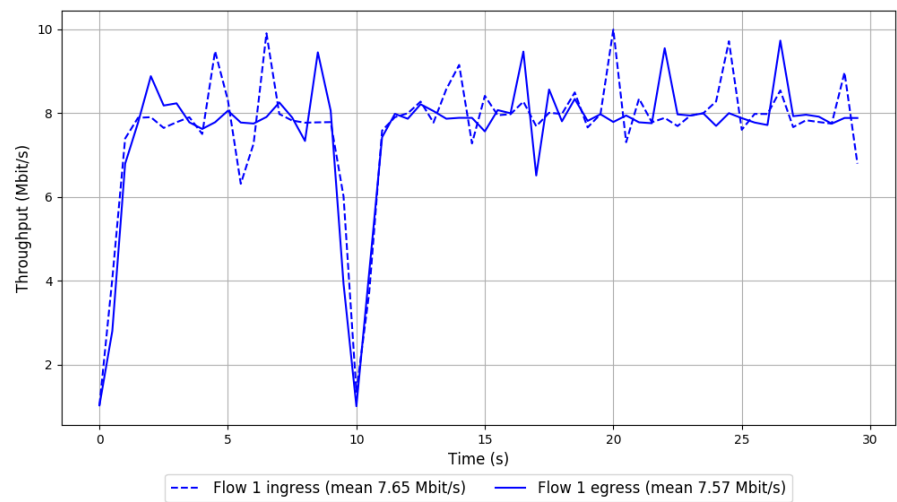
-- Flow 1:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 51.729 ms

Loss rate: 1.04%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-09-21 17:31:07

End at: 2017-09-21 17:31:37

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 51.812 ms

Loss rate: 0.33%

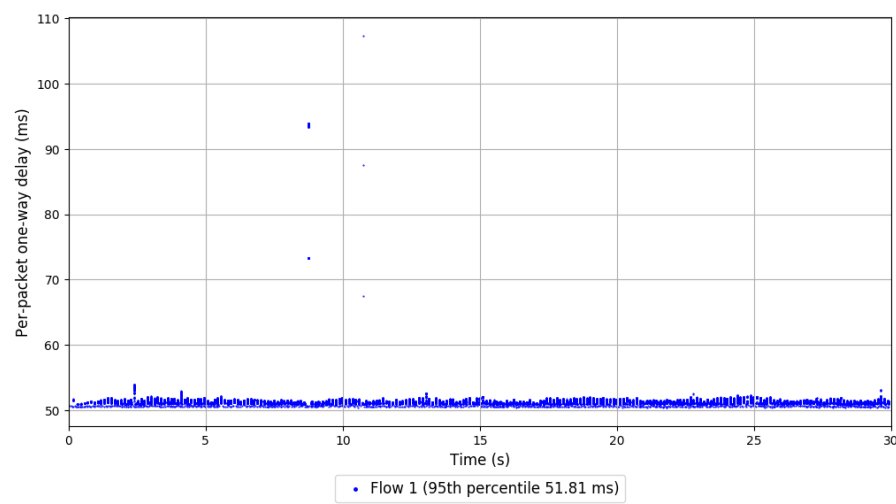
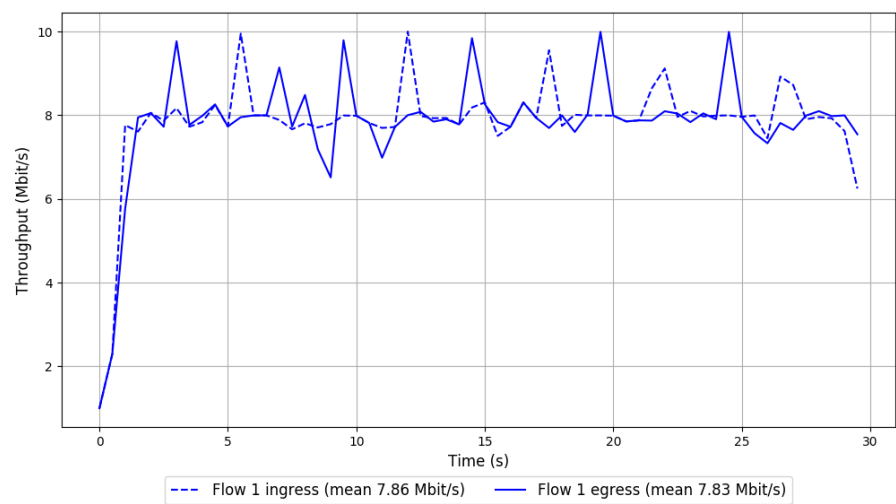
-- Flow 1:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 51.812 ms

Loss rate: 0.33%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-09-21 17:41:16

End at: 2017-09-21 17:41:46

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 52.267 ms

Loss rate: 1.04%

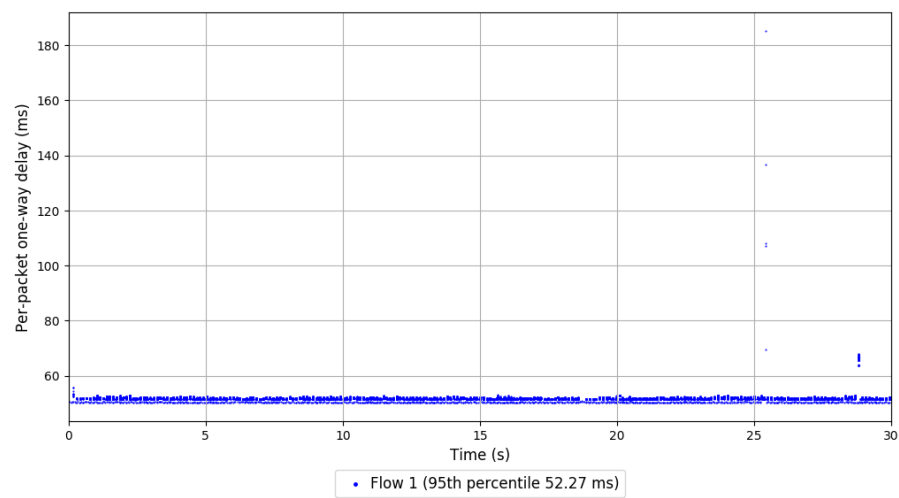
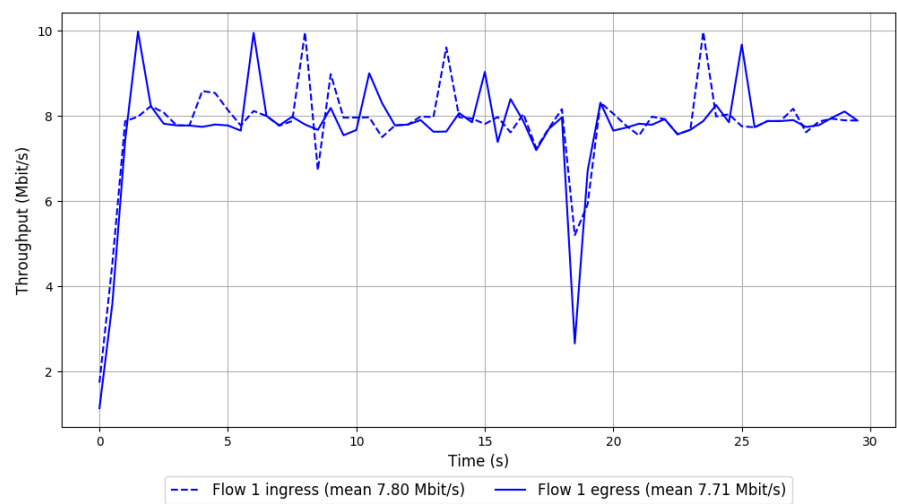
-- Flow 1:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 52.267 ms

Loss rate: 1.04%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-09-21 17:51:34

End at: 2017-09-21 17:52:04

Below is generated by plot.py at 2017-09-21 19:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 52.366 ms

Loss rate: 0.78%

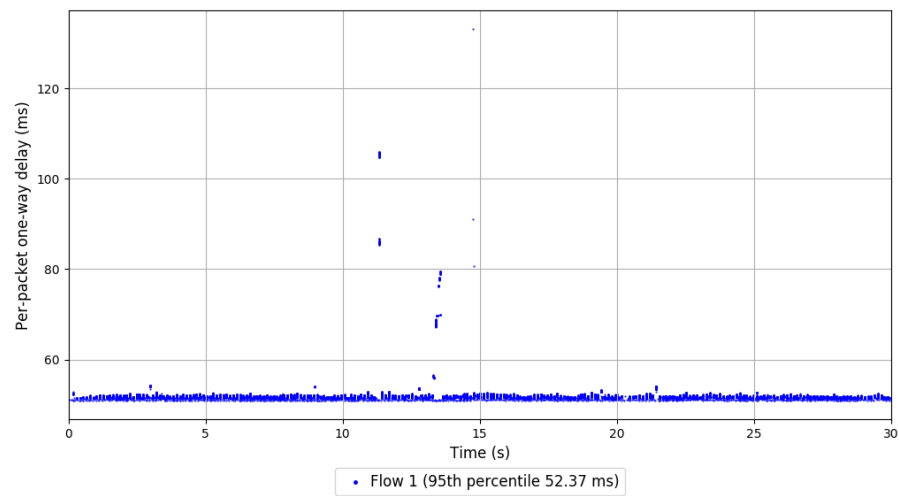
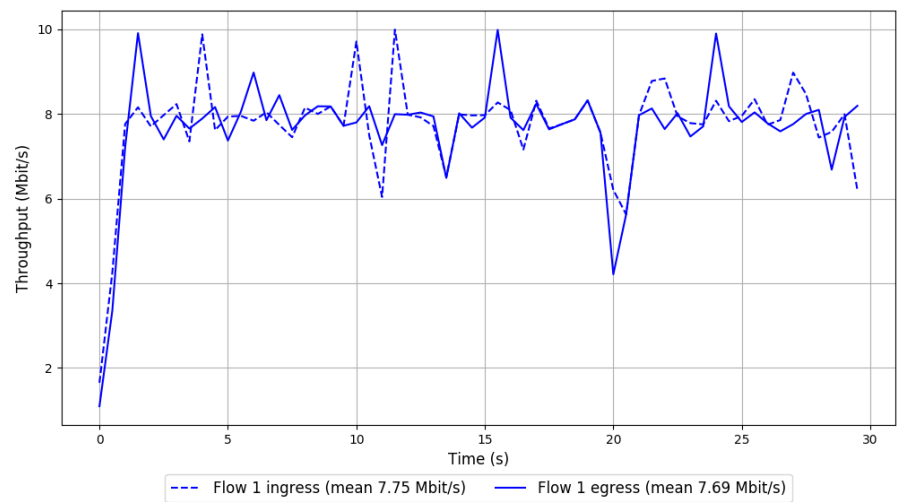
-- Flow 1:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 52.366 ms

Loss rate: 0.78%

Run 10: Report of Sprout — Data Link

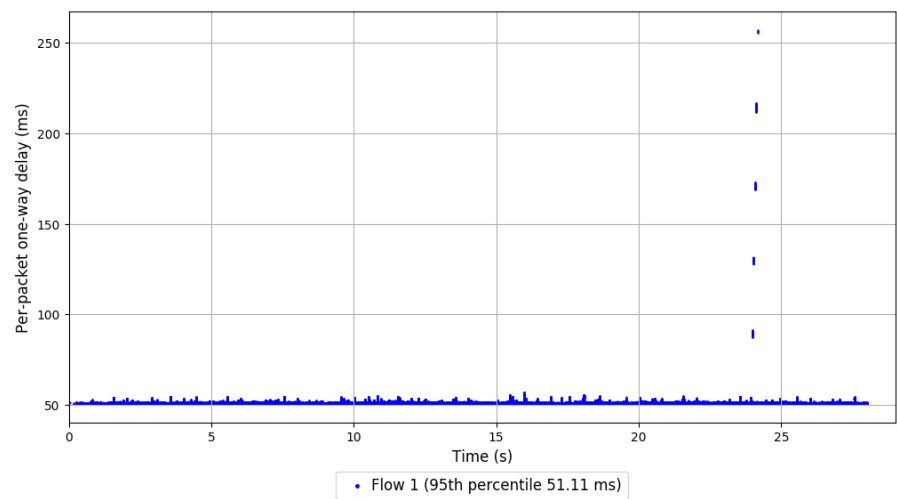
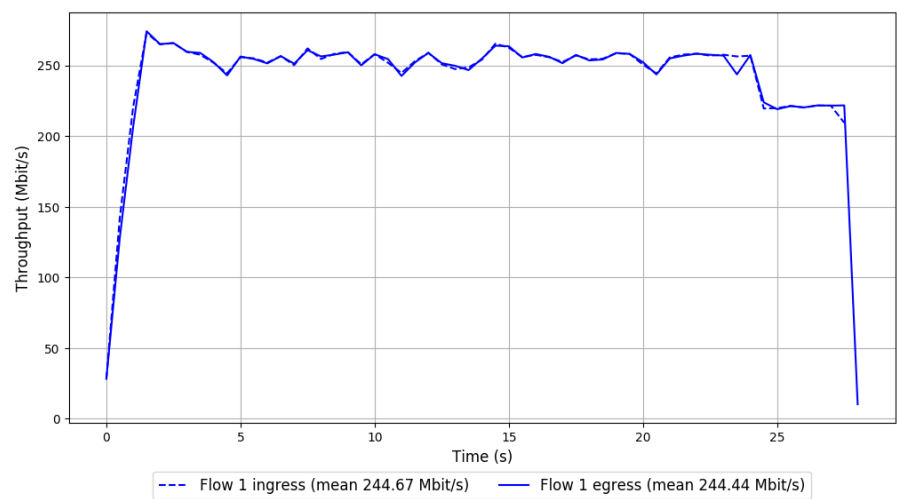


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-09-21 16:17:37
End at: 2017-09-21 16:18:07

# Below is generated by plot.py at 2017-09-21 19:19:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 244.44 Mbit/s
95th percentile per-packet one-way delay: 51.110 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 244.44 Mbit/s
95th percentile per-packet one-way delay: 51.110 ms
Loss rate: 0.10%
```

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

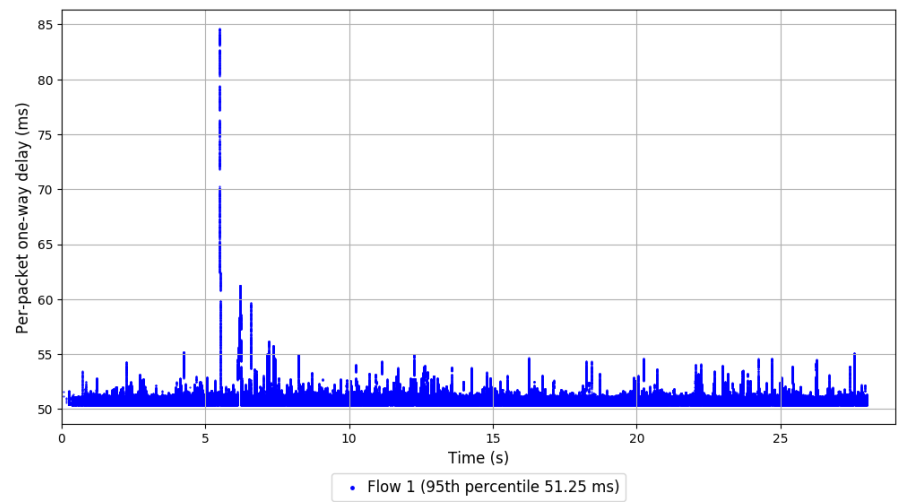
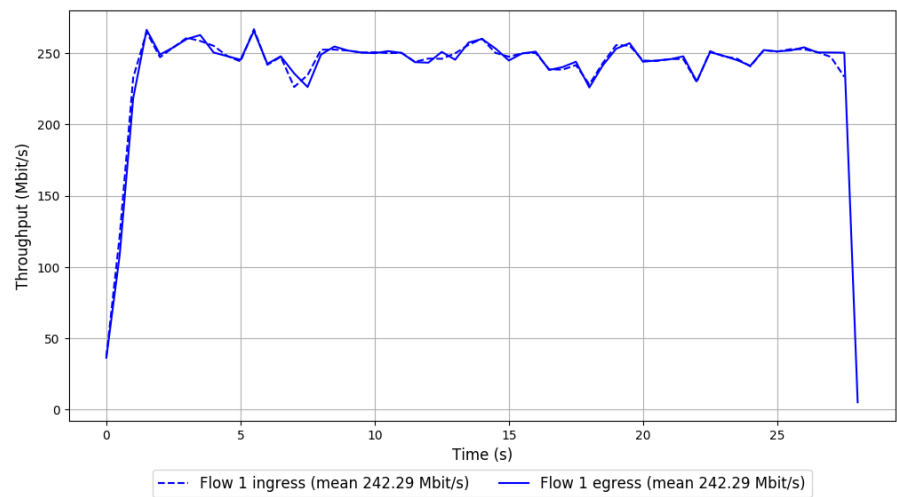


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-09-21 16:28:07
End at: 2017-09-21 16:28:37

# Below is generated by plot.py at 2017-09-21 19:19:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 242.29 Mbit/s
95th percentile per-packet one-way delay: 51.246 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 242.29 Mbit/s
95th percentile per-packet one-way delay: 51.246 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-09-21 16:38:31

End at: 2017-09-21 16:39:01

Below is generated by plot.py at 2017-09-21 19:19:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.84 Mbit/s

95th percentile per-packet one-way delay: 49.953 ms

Loss rate: 0.00%

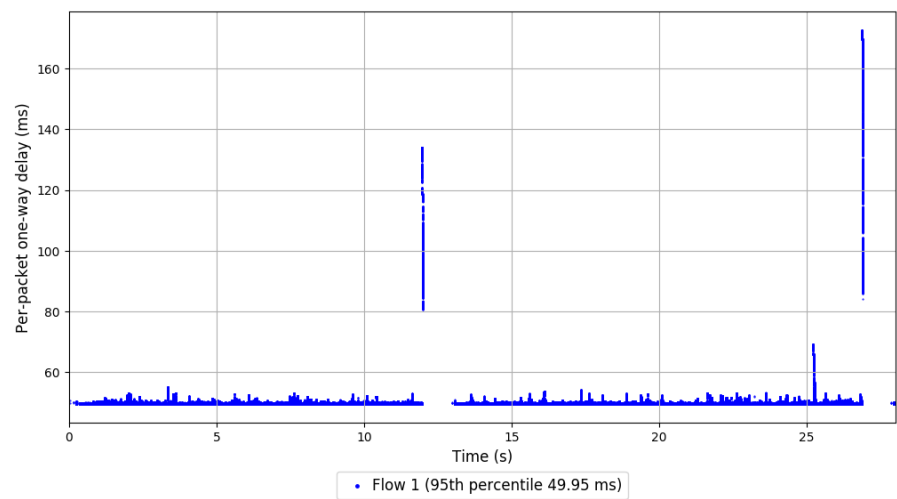
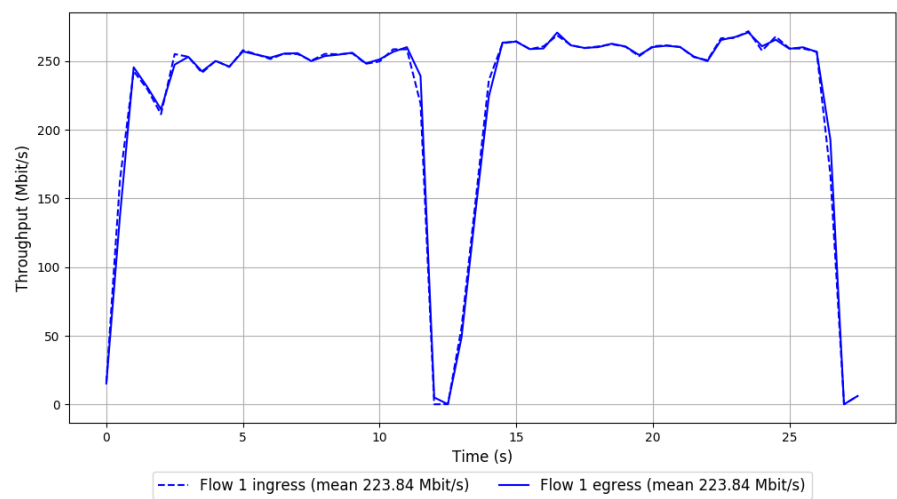
-- Flow 1:

Average throughput: 223.84 Mbit/s

95th percentile per-packet one-way delay: 49.953 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-09-21 16:49:14

End at: 2017-09-21 16:49:44

Below is generated by plot.py at 2017-09-21 19:19:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.32 Mbit/s

95th percentile per-packet one-way delay: 49.800 ms

Loss rate: 0.00%

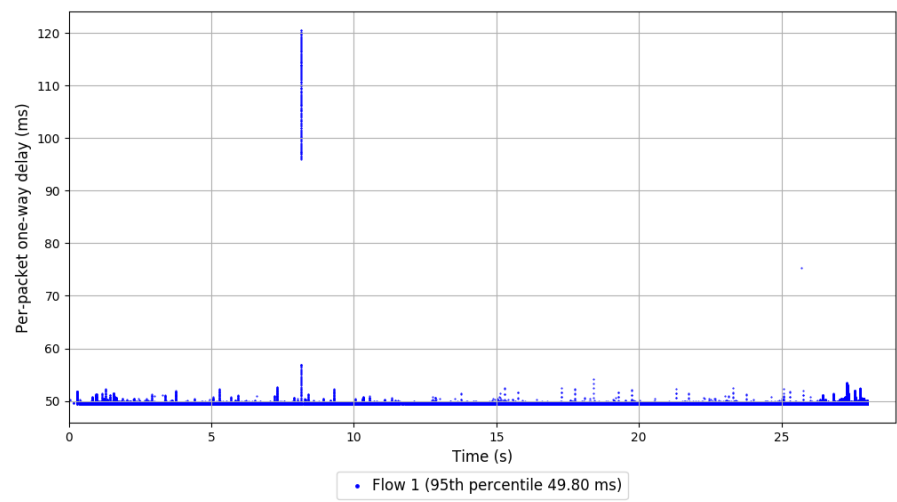
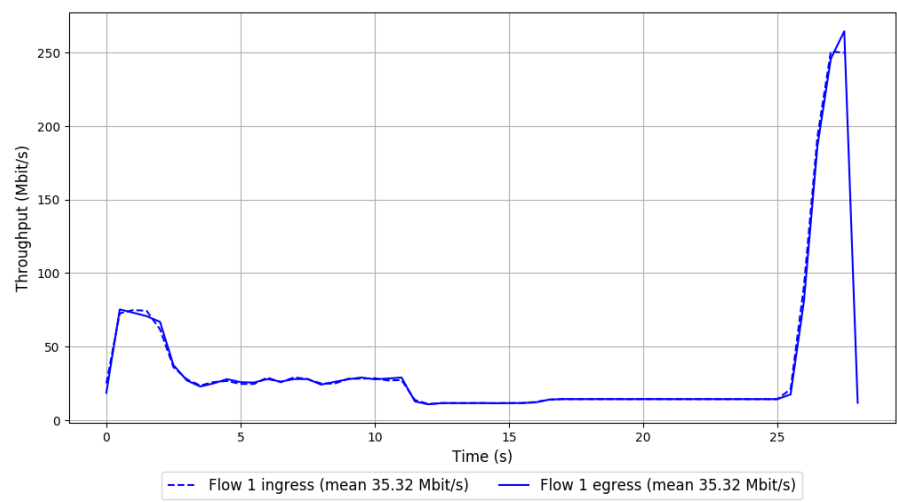
-- Flow 1:

Average throughput: 35.32 Mbit/s

95th percentile per-packet one-way delay: 49.800 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-09-21 17:00:29

End at: 2017-09-21 17:00:59

Below is generated by plot.py at 2017-09-21 19:19:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 248.32 Mbit/s

95th percentile per-packet one-way delay: 50.371 ms

Loss rate: 0.00%

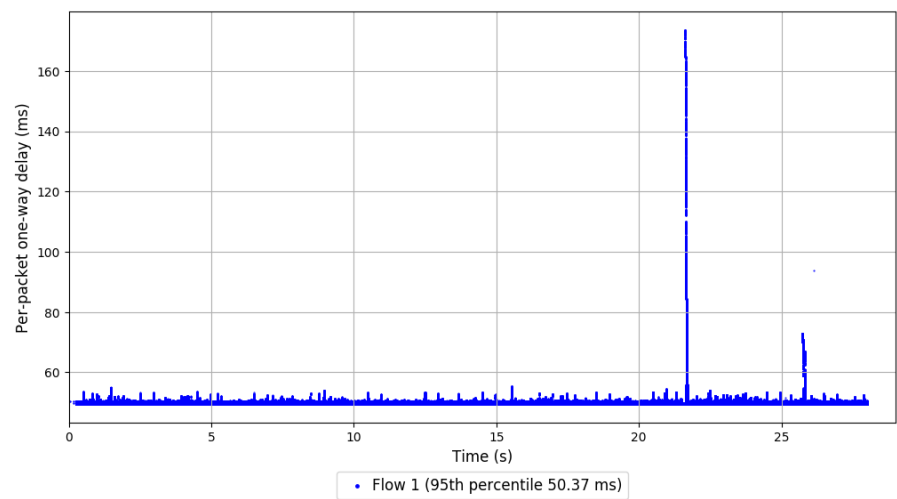
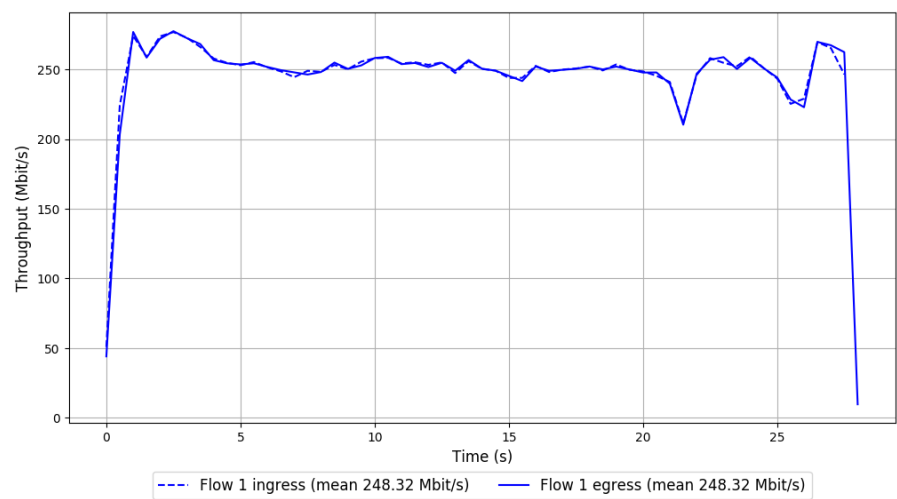
-- Flow 1:

Average throughput: 248.32 Mbit/s

95th percentile per-packet one-way delay: 50.371 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

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

End at: 2017-09-21 17:11:27

Below is generated by plot.py at 2017-09-21 19:19:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.61 Mbit/s

95th percentile per-packet one-way delay: 51.612 ms

Loss rate: 0.00%

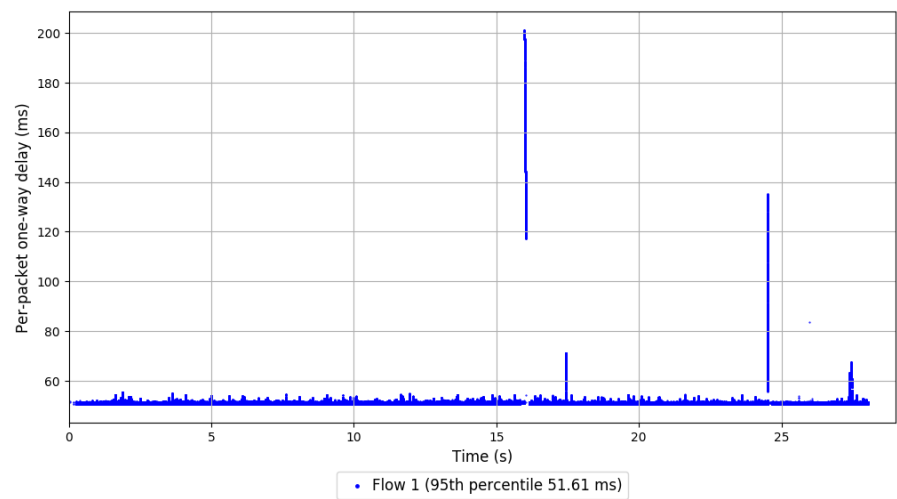
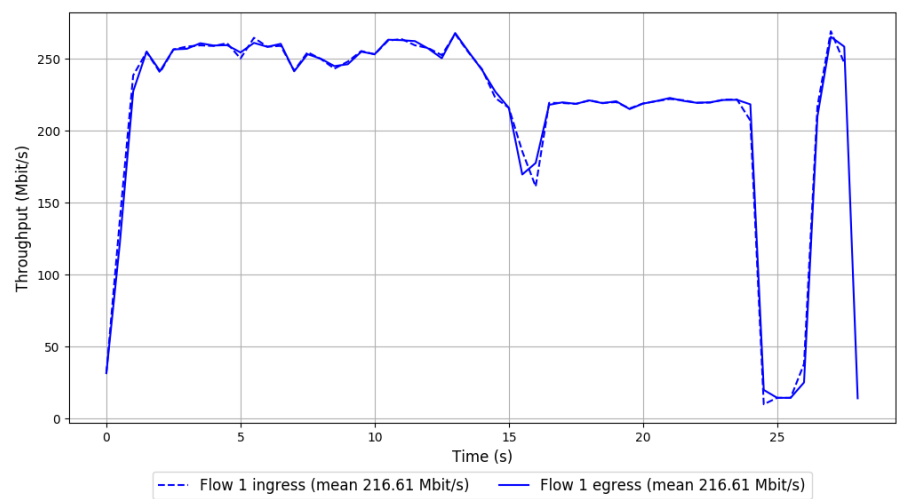
-- Flow 1:

Average throughput: 216.61 Mbit/s

95th percentile per-packet one-way delay: 51.612 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-09-21 17:21:54

End at: 2017-09-21 17:22:24

Below is generated by plot.py at 2017-09-21 19:20:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 245.10 Mbit/s

95th percentile per-packet one-way delay: 51.204 ms

Loss rate: 0.01%

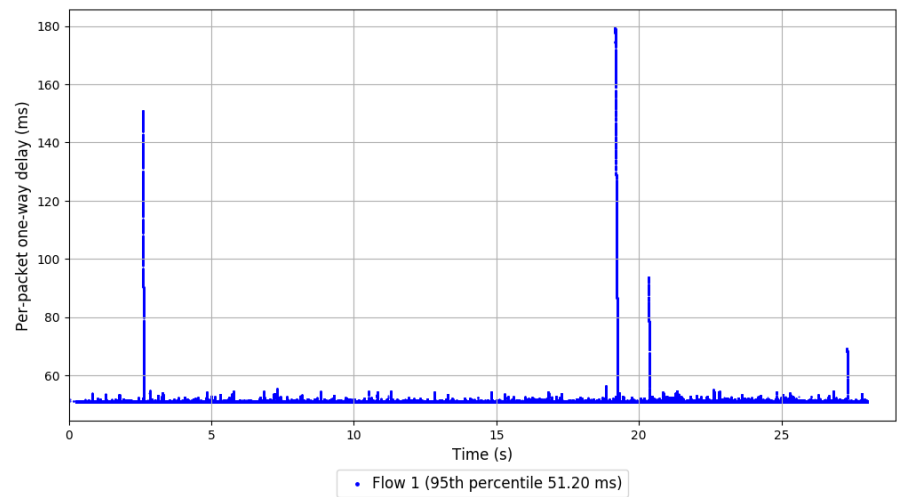
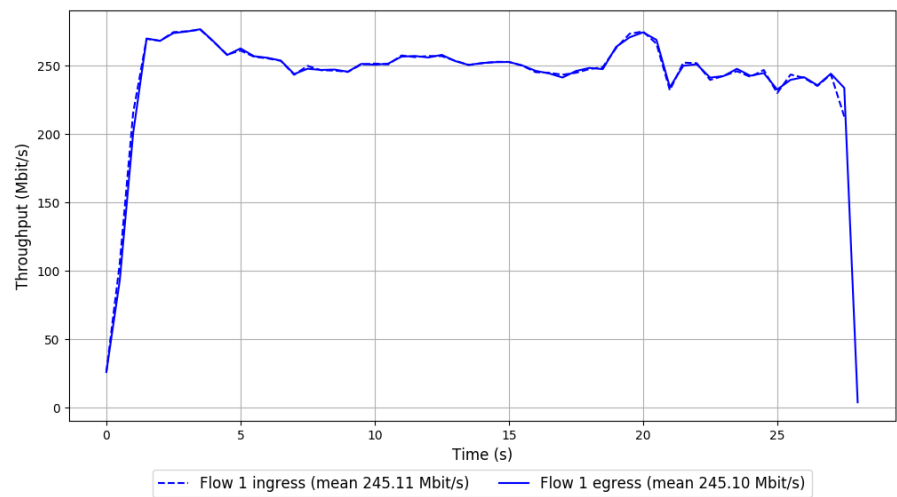
-- Flow 1:

Average throughput: 245.10 Mbit/s

95th percentile per-packet one-way delay: 51.204 ms

Loss rate: 0.01%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-09-21 17:32:21

End at: 2017-09-21 17:32:51

Below is generated by plot.py at 2017-09-21 19:21:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.03 Mbit/s

95th percentile per-packet one-way delay: 51.079 ms

Loss rate: 0.15%

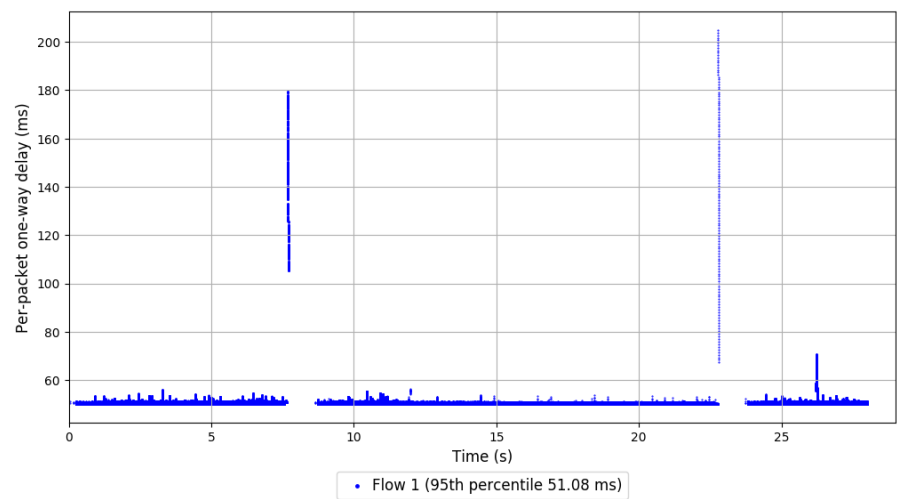
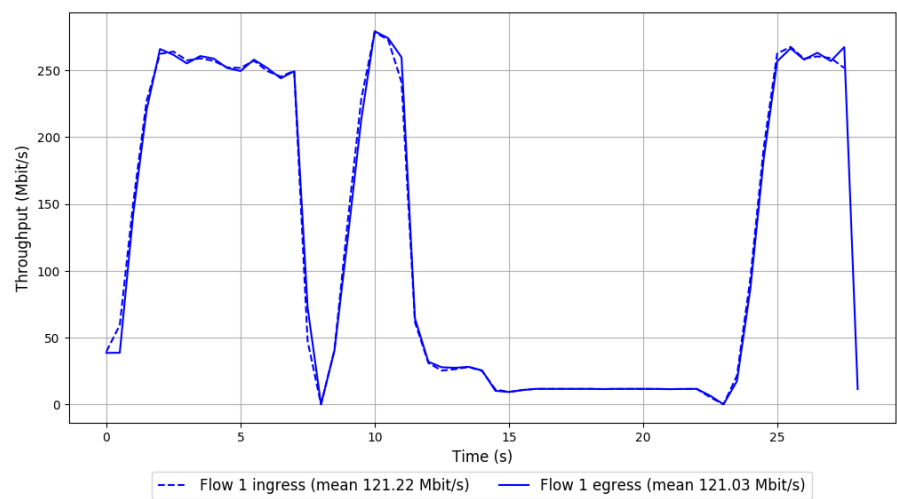
-- Flow 1:

Average throughput: 121.03 Mbit/s

95th percentile per-packet one-way delay: 51.079 ms

Loss rate: 0.15%

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

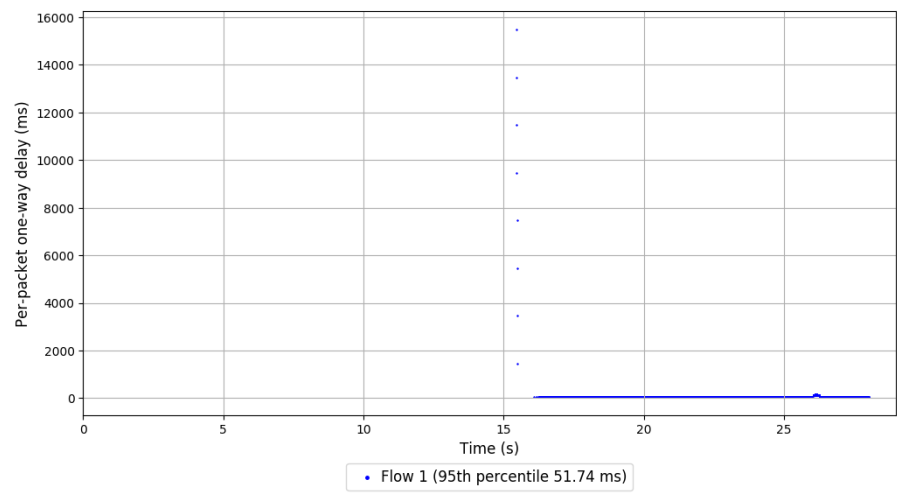
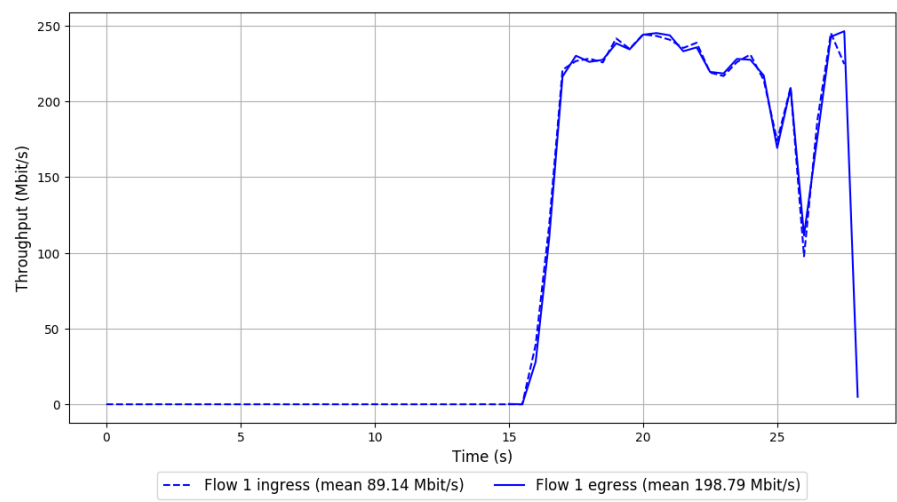


Run 9: Statistics of TaoVA-100x

Start at: 2017-09-21 17:42:31

End at: 2017-09-21 17:43:01

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

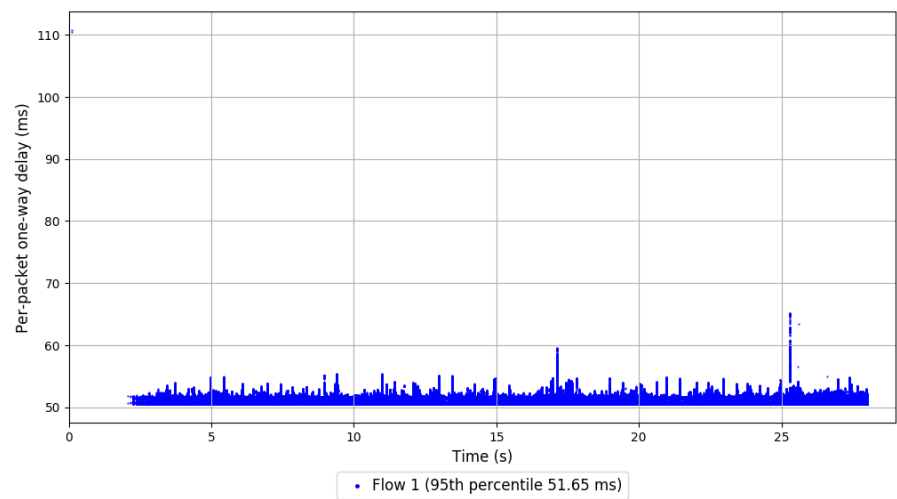
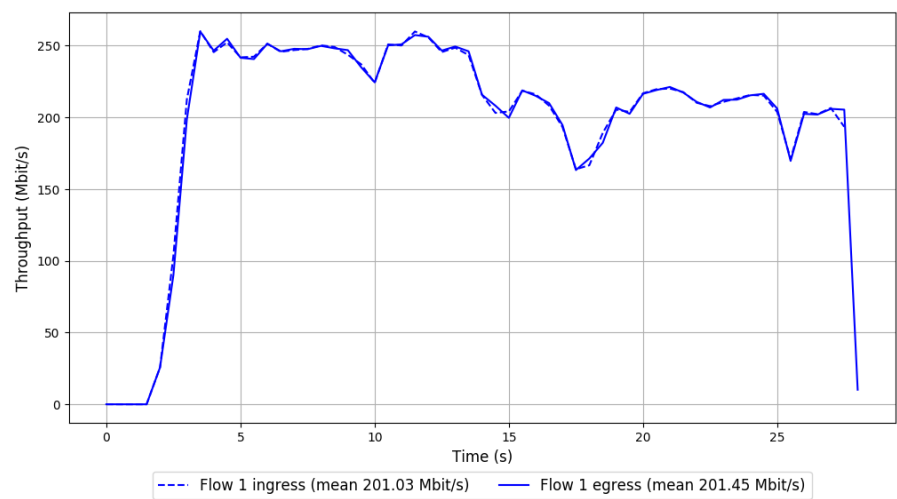


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-09-21 17:52:48
End at: 2017-09-21 17:53:18

# Below is generated by plot.py at 2017-09-21 19:25:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 201.45 Mbit/s
95th percentile per-packet one-way delay: 51.648 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 201.45 Mbit/s
95th percentile per-packet one-way delay: 51.648 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-09-21 16:14:32

End at: 2017-09-21 16:15:02

Below is generated by plot.py at 2017-09-21 19:25:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.01 Mbit/s

95th percentile per-packet one-way delay: 51.518 ms

Loss rate: 0.44%

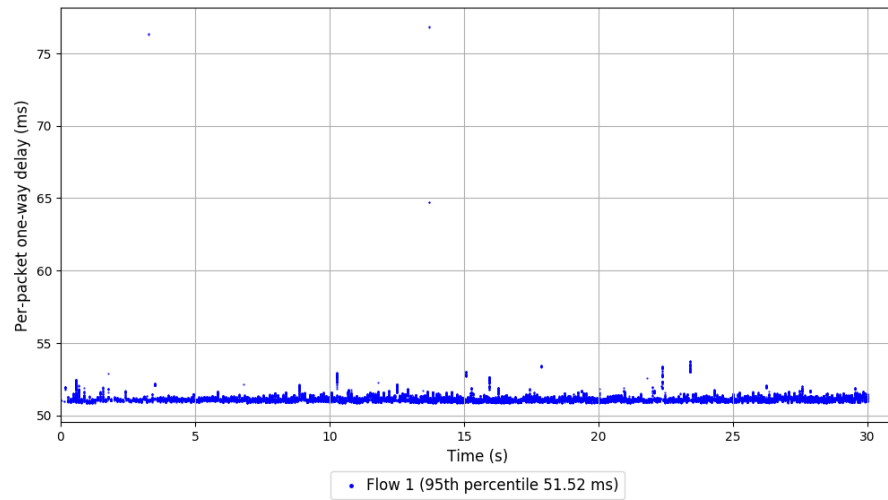
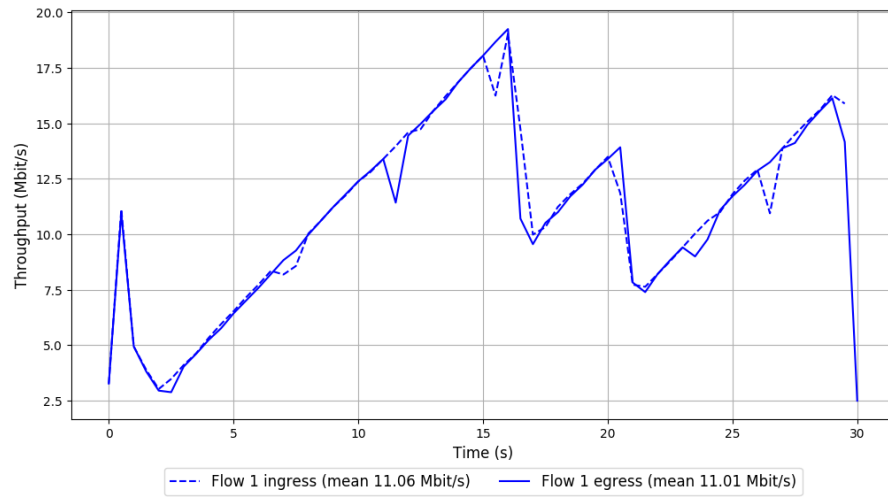
-- Flow 1:

Average throughput: 11.01 Mbit/s

95th percentile per-packet one-way delay: 51.518 ms

Loss rate: 0.44%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-09-21 16:25:00

End at: 2017-09-21 16:25:30

Below is generated by plot.py at 2017-09-21 19:25:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.81 Mbit/s

95th percentile per-packet one-way delay: 52.159 ms

Loss rate: 0.65%

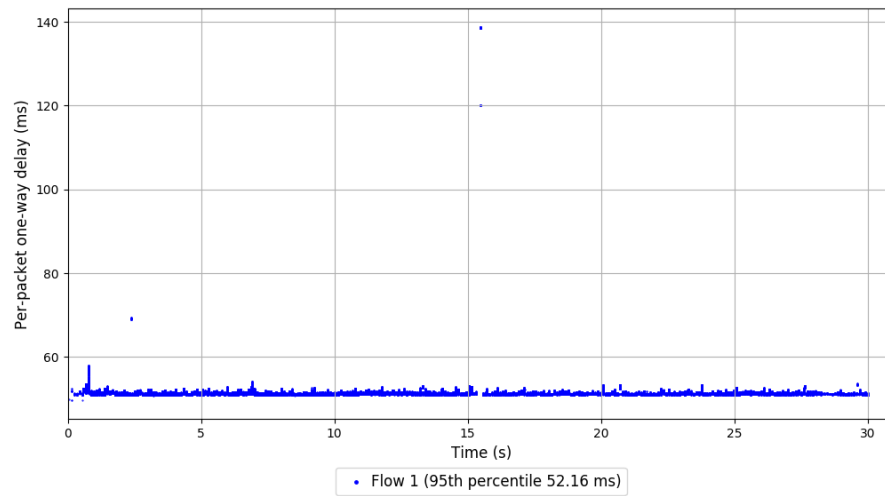
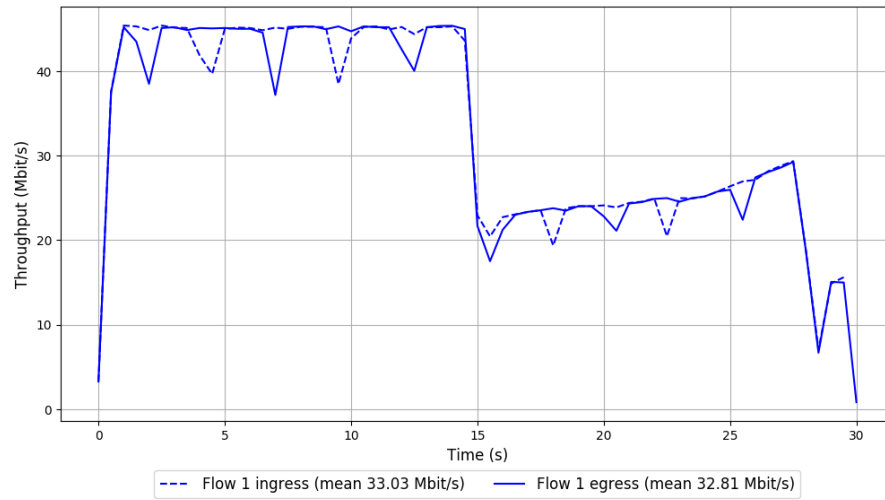
-- Flow 1:

Average throughput: 32.81 Mbit/s

95th percentile per-packet one-way delay: 52.159 ms

Loss rate: 0.65%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-09-21 16:35:25

End at: 2017-09-21 16:35:55

Below is generated by plot.py at 2017-09-21 19:25:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.95 Mbit/s

95th percentile per-packet one-way delay: 51.995 ms

Loss rate: 0.02%

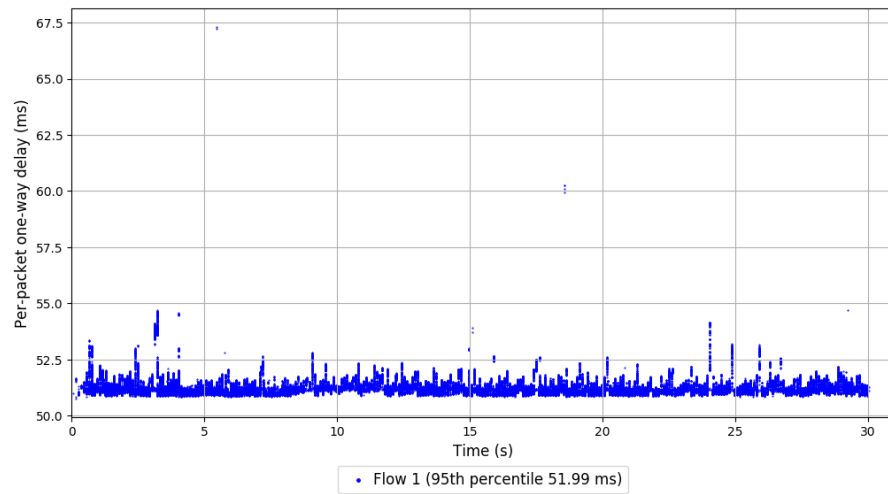
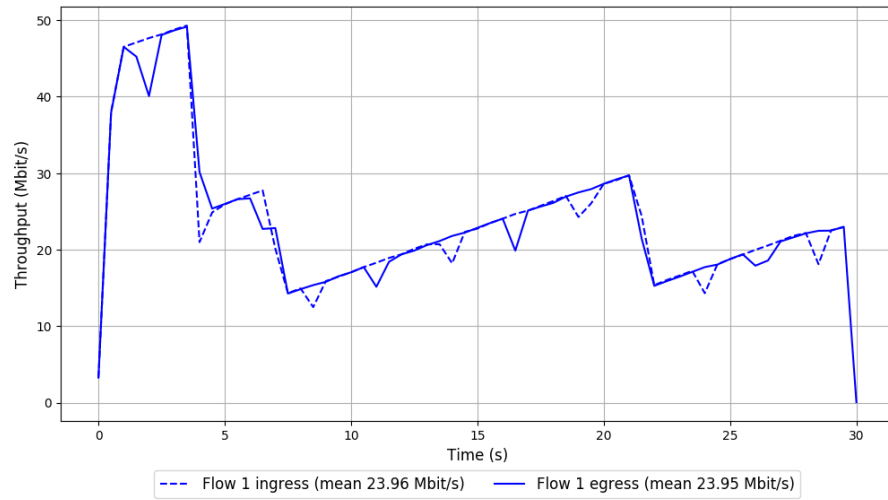
-- Flow 1:

Average throughput: 23.95 Mbit/s

95th percentile per-packet one-way delay: 51.995 ms

Loss rate: 0.02%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-09-21 16:45:57

End at: 2017-09-21 16:46:27

Below is generated by plot.py at 2017-09-21 19:25:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.84 Mbit/s

95th percentile per-packet one-way delay: 51.183 ms

Loss rate: 0.00%

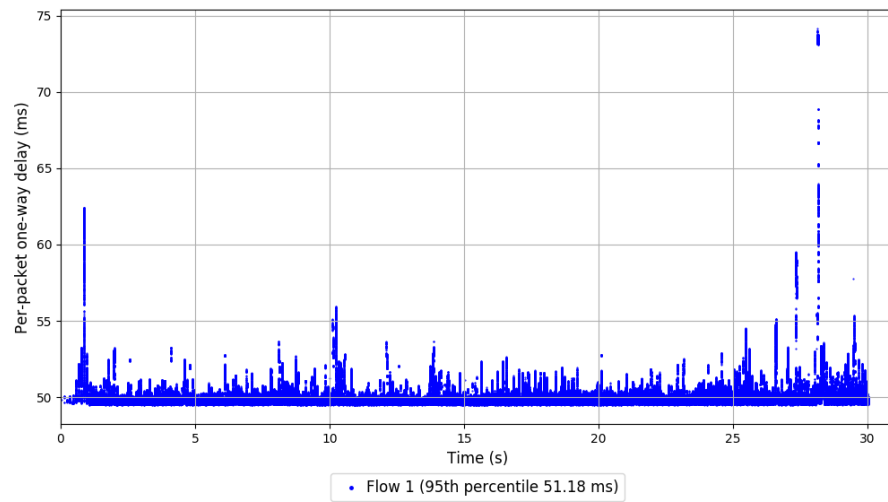
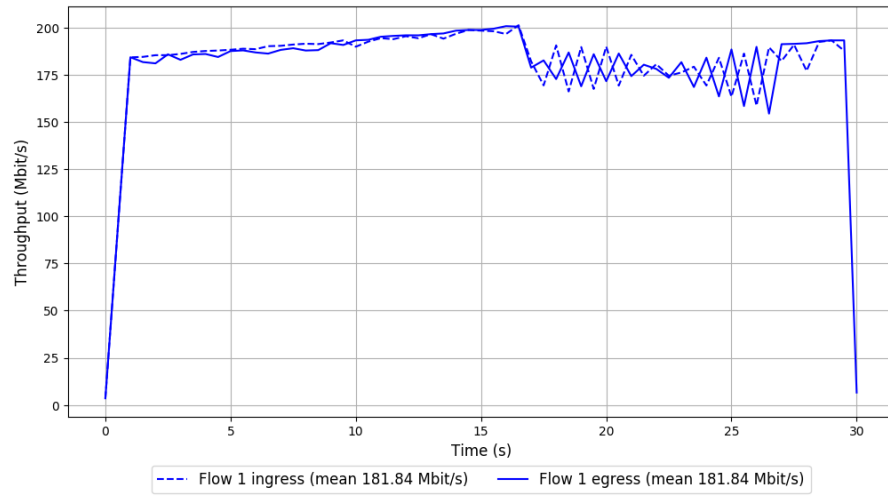
-- Flow 1:

Average throughput: 181.84 Mbit/s

95th percentile per-packet one-way delay: 51.183 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-09-21 16:57:23

End at: 2017-09-21 16:57:53

Below is generated by plot.py at 2017-09-21 19:25:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.48 Mbit/s

95th percentile per-packet one-way delay: 50.228 ms

Loss rate: 1.16%

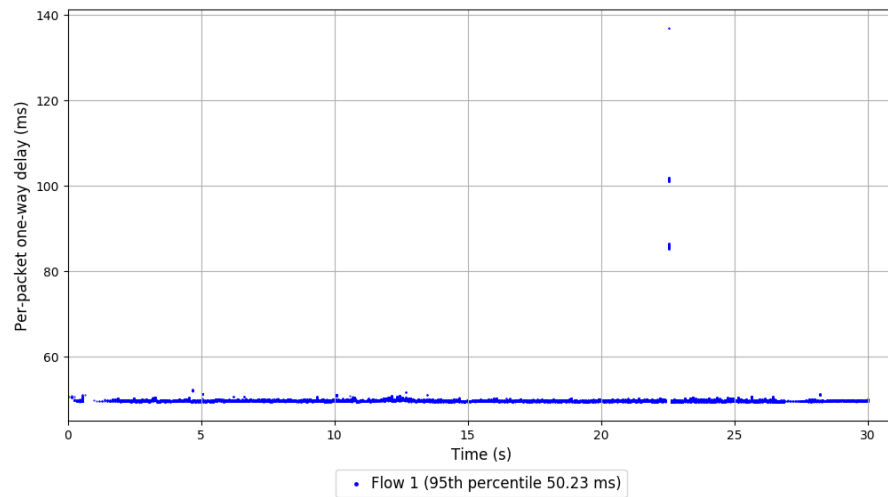
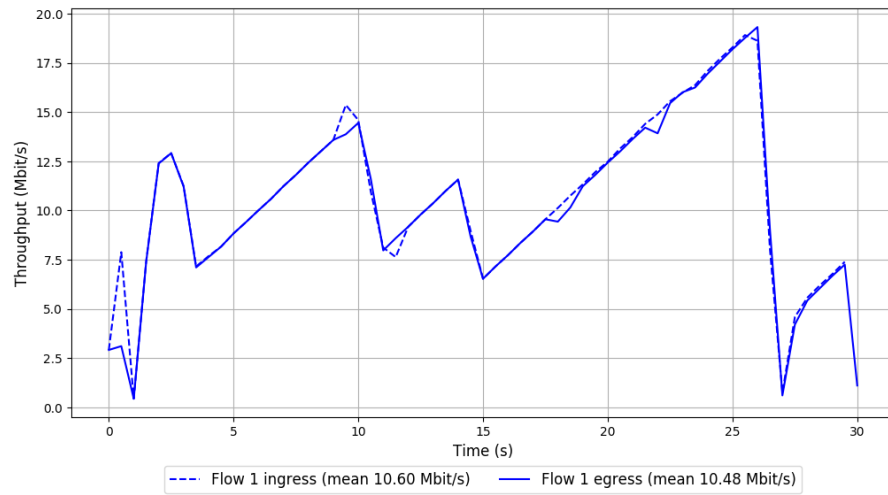
-- Flow 1:

Average throughput: 10.48 Mbit/s

95th percentile per-packet one-way delay: 50.228 ms

Loss rate: 1.16%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-09-21 17:07:51

End at: 2017-09-21 17:08:21

Below is generated by plot.py at 2017-09-21 19:25:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.16 Mbit/s

95th percentile per-packet one-way delay: 51.575 ms

Loss rate: 1.08%

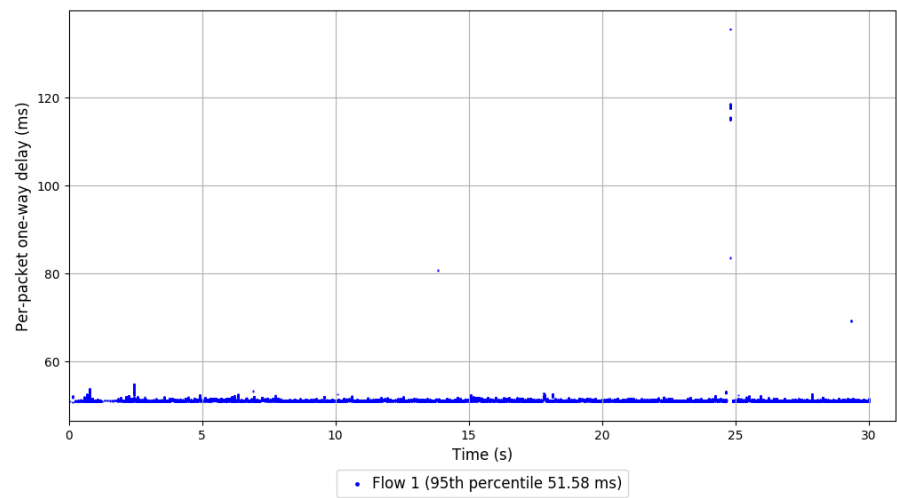
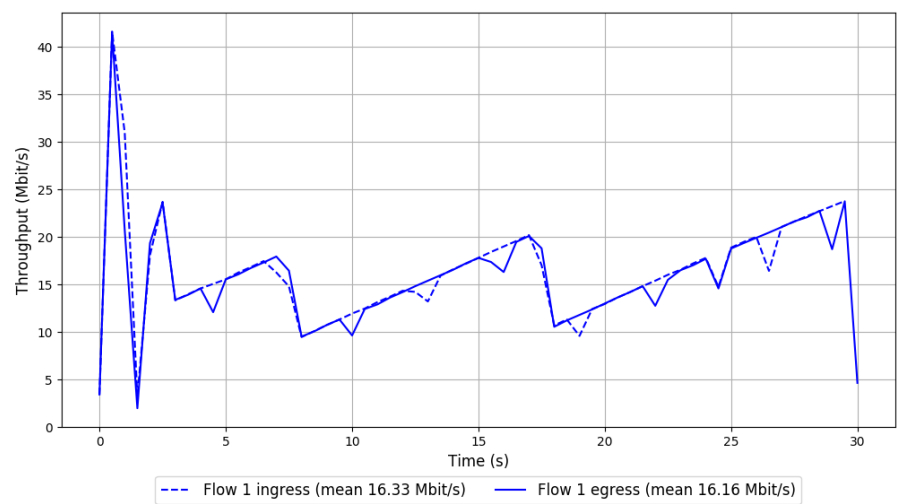
-- Flow 1:

Average throughput: 16.16 Mbit/s

95th percentile per-packet one-way delay: 51.575 ms

Loss rate: 1.08%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-09-21 17:18:44

End at: 2017-09-21 17:19:14

Below is generated by plot.py at 2017-09-21 19:25:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.95 Mbit/s

95th percentile per-packet one-way delay: 51.639 ms

Loss rate: 0.80%

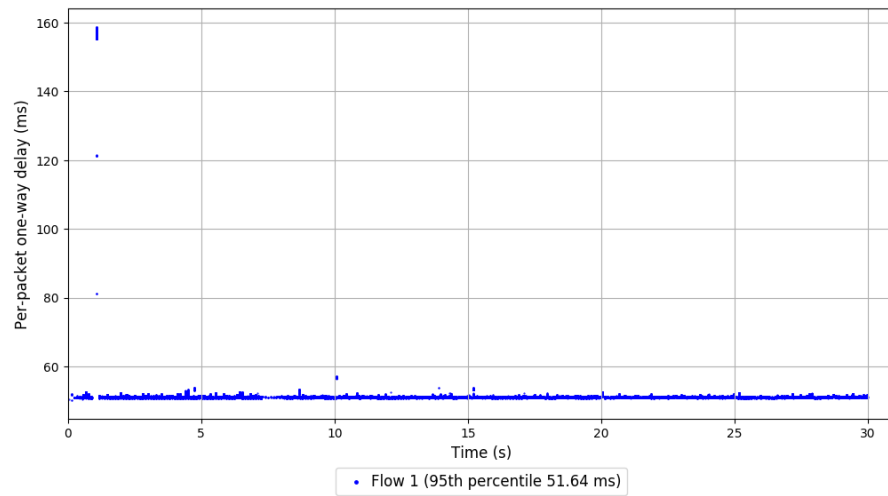
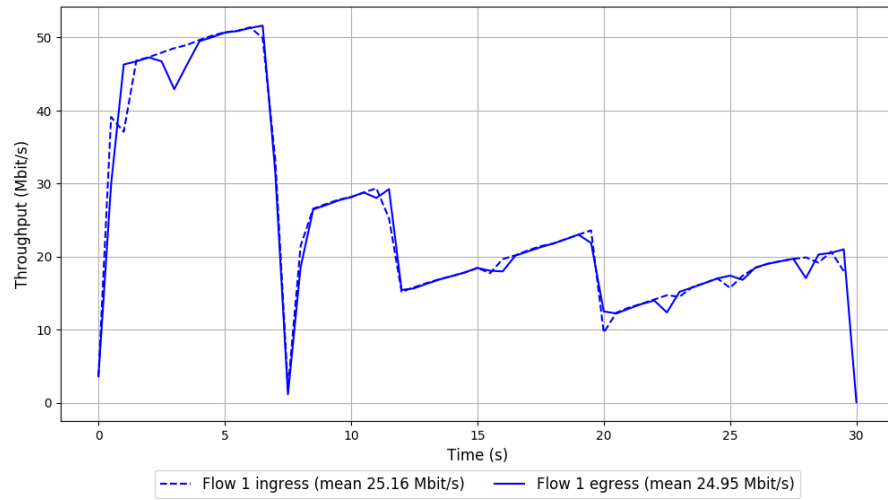
-- Flow 1:

Average throughput: 24.95 Mbit/s

95th percentile per-packet one-way delay: 51.639 ms

Loss rate: 0.80%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-09-21 17:29:15

End at: 2017-09-21 17:29:45

Below is generated by plot.py at 2017-09-21 19:25:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.11 Mbit/s

95th percentile per-packet one-way delay: 51.442 ms

Loss rate: 0.06%

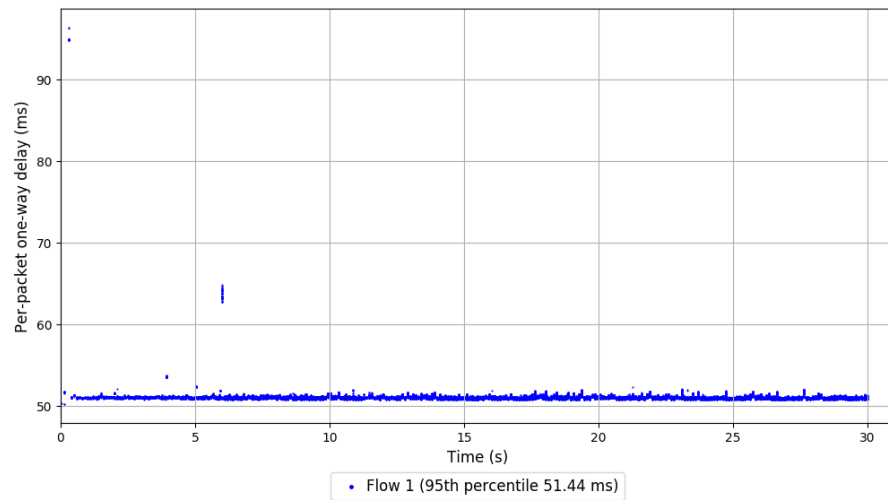
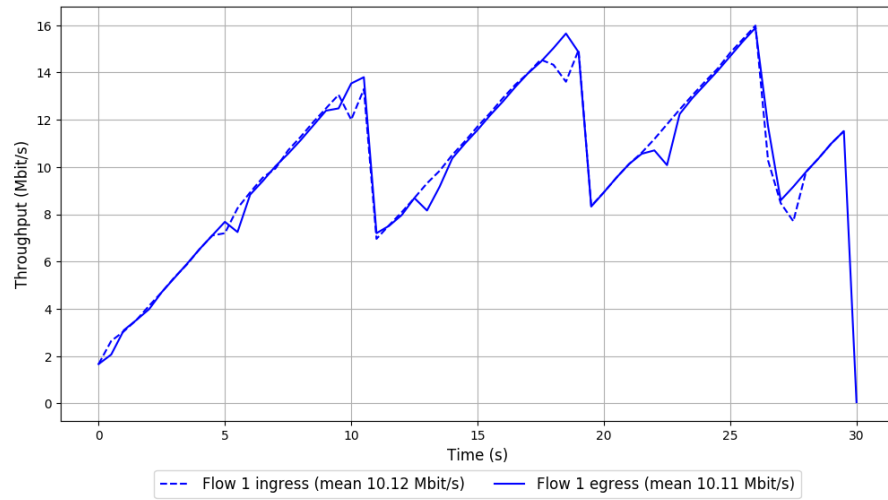
-- Flow 1:

Average throughput: 10.11 Mbit/s

95th percentile per-packet one-way delay: 51.442 ms

Loss rate: 0.06%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-09-21 17:39:23

End at: 2017-09-21 17:39:53

Below is generated by plot.py at 2017-09-21 19:25:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.91 Mbit/s

95th percentile per-packet one-way delay: 52.289 ms

Loss rate: 0.10%

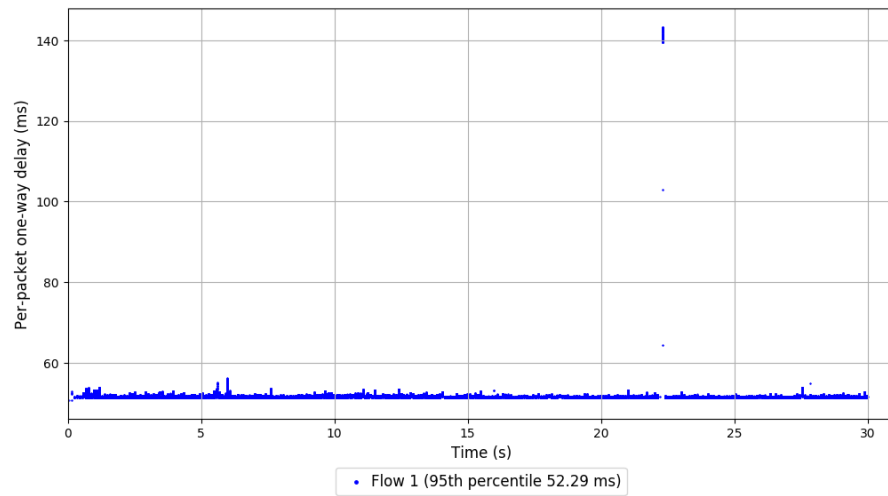
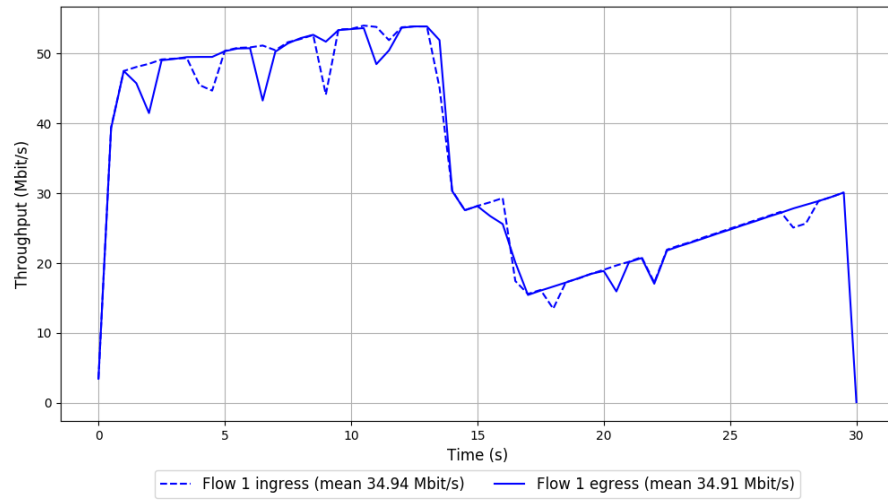
-- Flow 1:

Average throughput: 34.91 Mbit/s

95th percentile per-packet one-way delay: 52.289 ms

Loss rate: 0.10%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-09-21 17:49:41

End at: 2017-09-21 17:50:11

Below is generated by plot.py at 2017-09-21 19:25:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.86 Mbit/s

95th percentile per-packet one-way delay: 52.298 ms

Loss rate: 0.71%

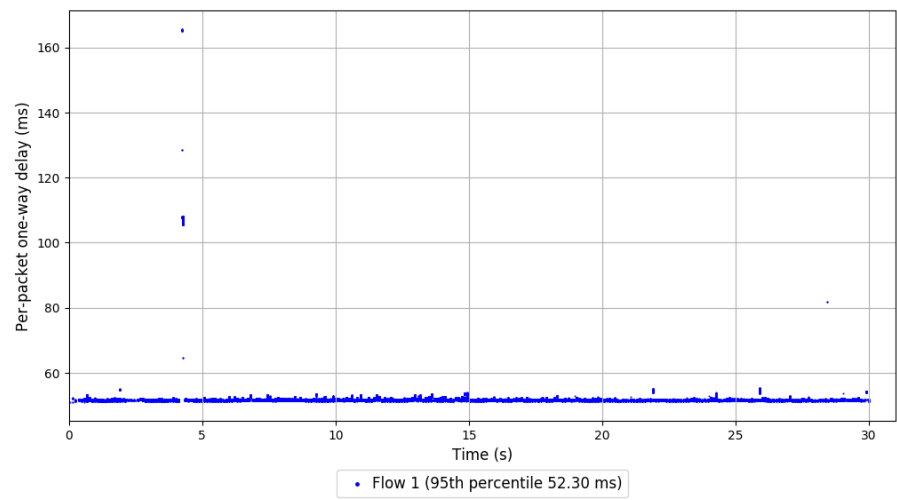
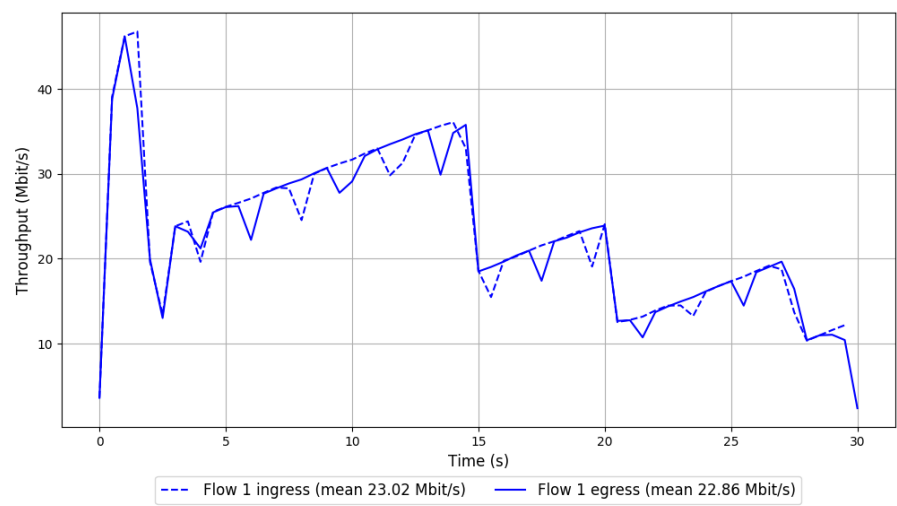
-- Flow 1:

Average throughput: 22.86 Mbit/s

95th percentile per-packet one-way delay: 52.298 ms

Loss rate: 0.71%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-09-21 16:12:52

End at: 2017-09-21 16:13:22

Below is generated by plot.py at 2017-09-21 19:25:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.00 Mbit/s

95th percentile per-packet one-way delay: 59.417 ms

Loss rate: 0.03%

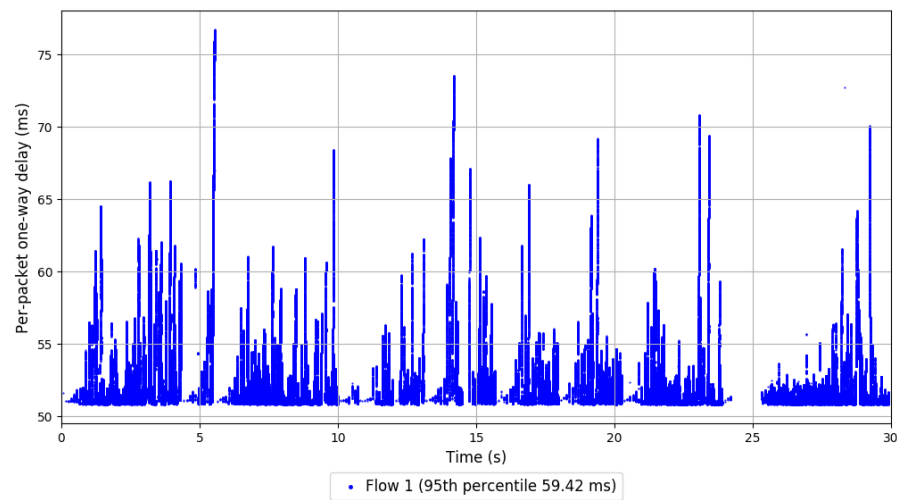
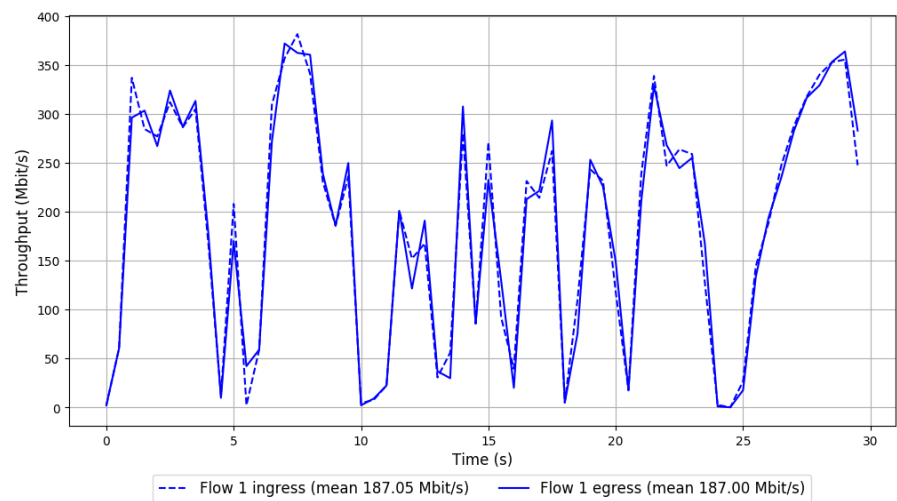
-- Flow 1:

Average throughput: 187.00 Mbit/s

95th percentile per-packet one-way delay: 59.417 ms

Loss rate: 0.03%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-09-21 16:23:19

End at: 2017-09-21 16:23:49

Below is generated by plot.py at 2017-09-21 19:25:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.95 Mbit/s

95th percentile per-packet one-way delay: 89.036 ms

Loss rate: 0.21%

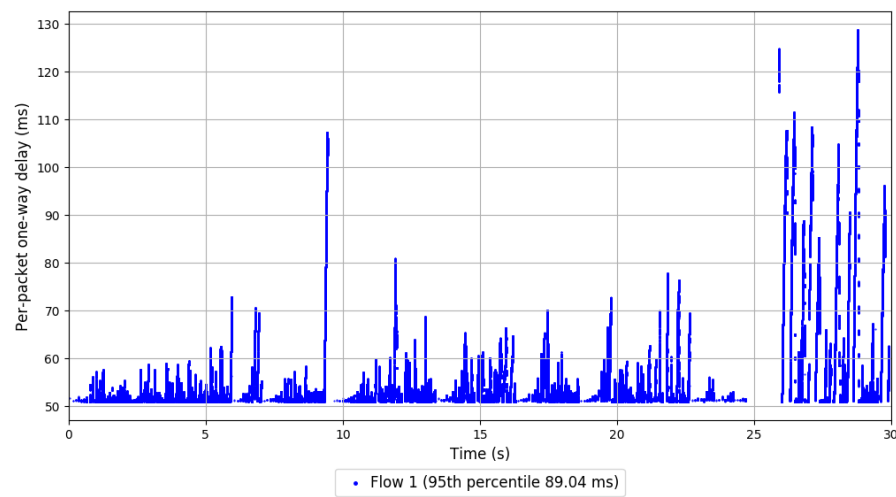
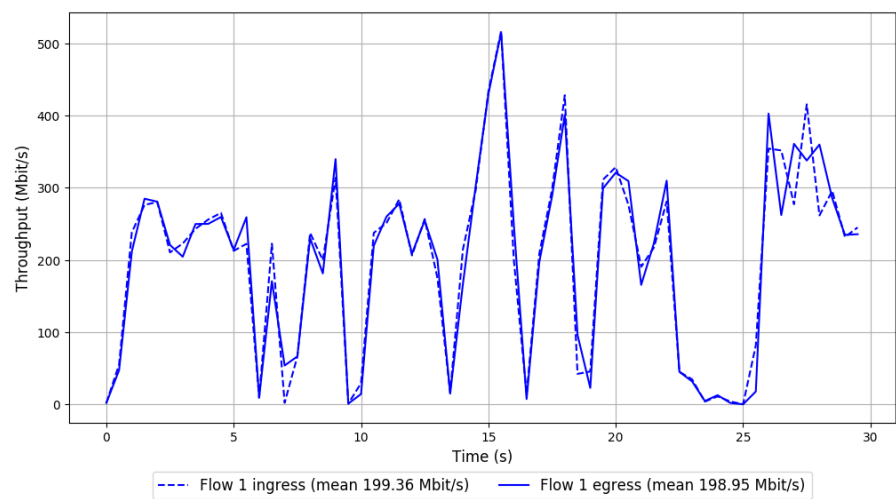
-- Flow 1:

Average throughput: 198.95 Mbit/s

95th percentile per-packet one-way delay: 89.036 ms

Loss rate: 0.21%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-09-21 16:33:49

End at: 2017-09-21 16:34:20

Below is generated by plot.py at 2017-09-21 19:26:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 307.10 Mbit/s

95th percentile per-packet one-way delay: 209.957 ms

Loss rate: 1.64%

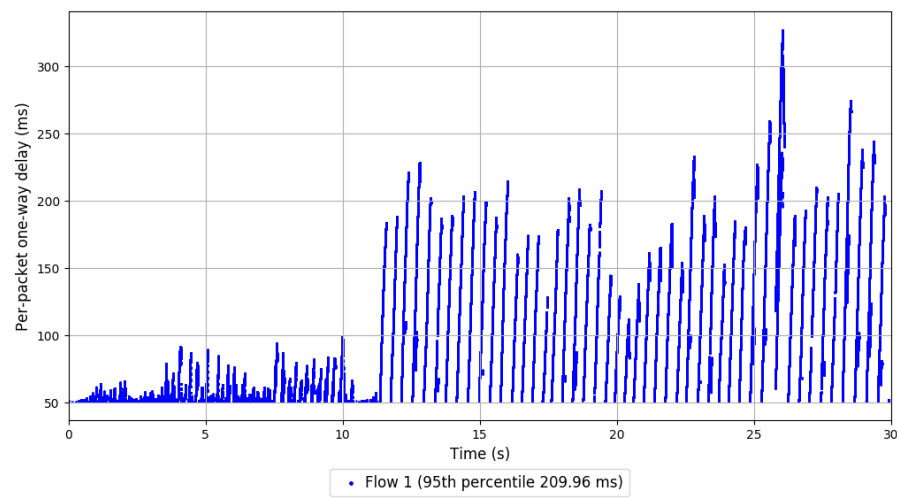
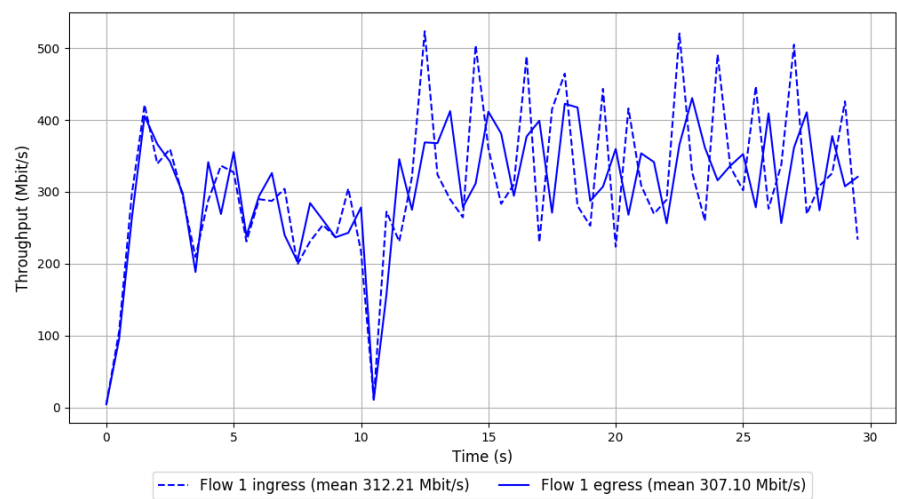
-- Flow 1:

Average throughput: 307.10 Mbit/s

95th percentile per-packet one-way delay: 209.957 ms

Loss rate: 1.64%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-09-21 16:44:09

End at: 2017-09-21 16:44:39

Below is generated by plot.py at 2017-09-21 19:26:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 297.95 Mbit/s

95th percentile per-packet one-way delay: 185.193 ms

Loss rate: 0.36%

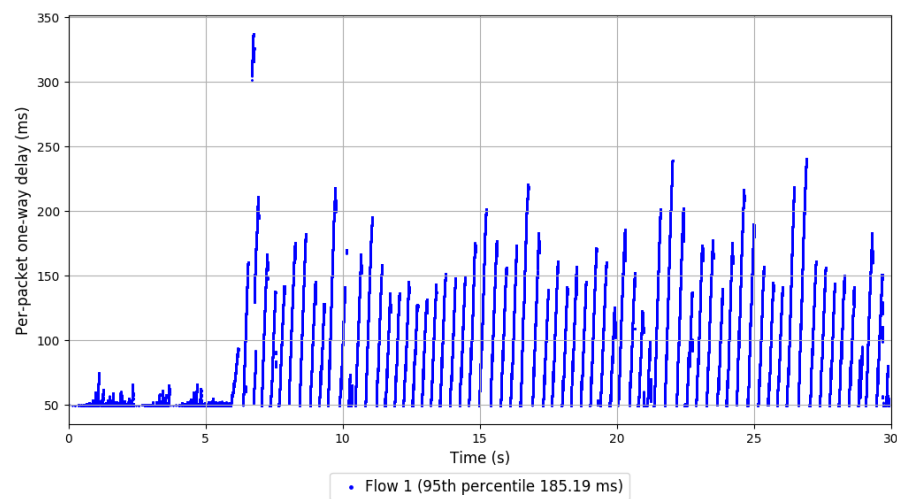
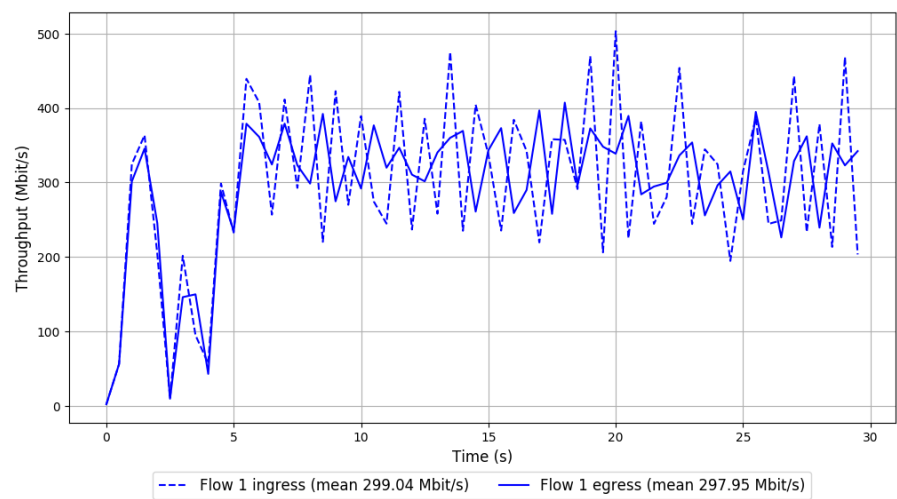
-- Flow 1:

Average throughput: 297.95 Mbit/s

95th percentile per-packet one-way delay: 185.193 ms

Loss rate: 0.36%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-09-21 16:55:36

End at: 2017-09-21 16:56:06

Below is generated by plot.py at 2017-09-21 19:27:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 329.70 Mbit/s

95th percentile per-packet one-way delay: 209.615 ms

Loss rate: 1.57%

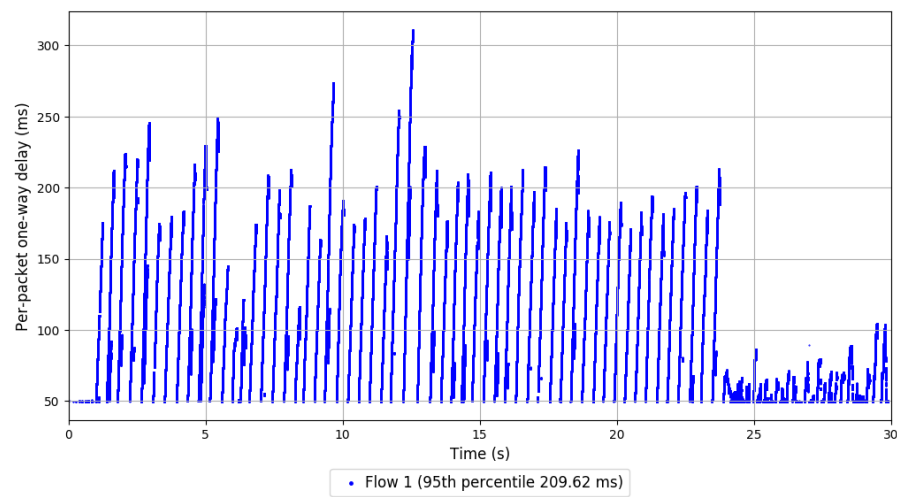
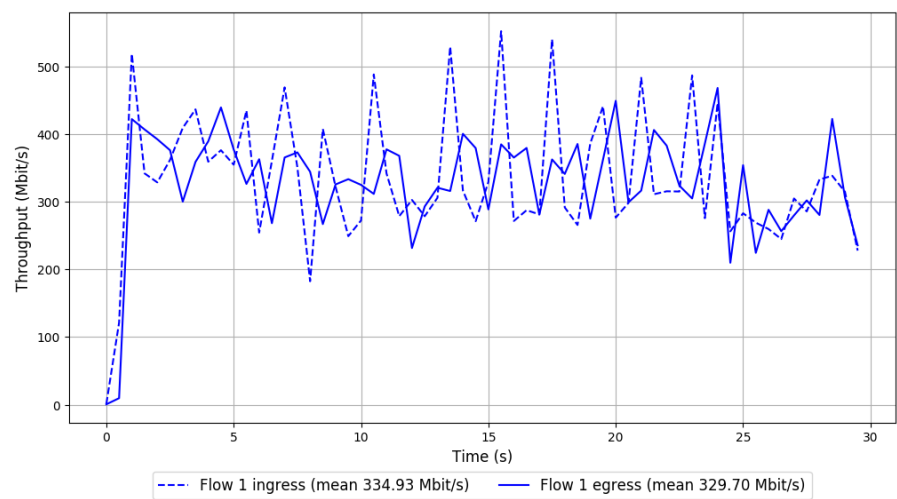
-- Flow 1:

Average throughput: 329.70 Mbit/s

95th percentile per-packet one-way delay: 209.615 ms

Loss rate: 1.57%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-09-21 17:06:11

End at: 2017-09-21 17:06:41

Below is generated by plot.py at 2017-09-21 19:28:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 304.88 Mbit/s

95th percentile per-packet one-way delay: 69.583 ms

Loss rate: 0.03%

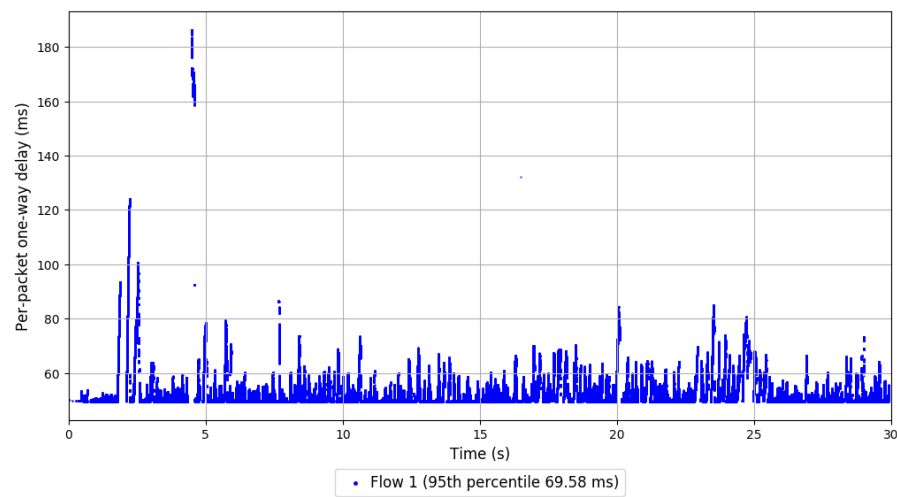
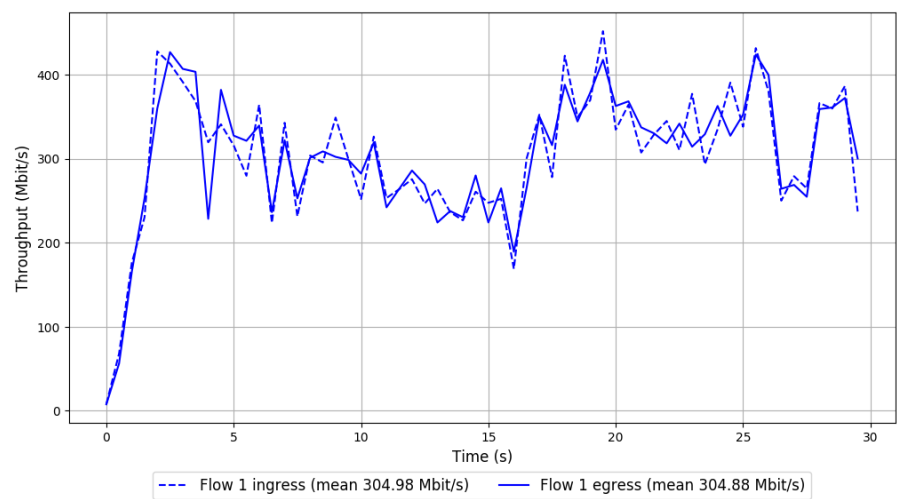
-- Flow 1:

Average throughput: 304.88 Mbit/s

95th percentile per-packet one-way delay: 69.583 ms

Loss rate: 0.03%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-09-21 17:16:59

End at: 2017-09-21 17:17:29

Below is generated by plot.py at 2017-09-21 19:28:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 231.67 Mbit/s

95th percentile per-packet one-way delay: 108.919 ms

Loss rate: 0.01%

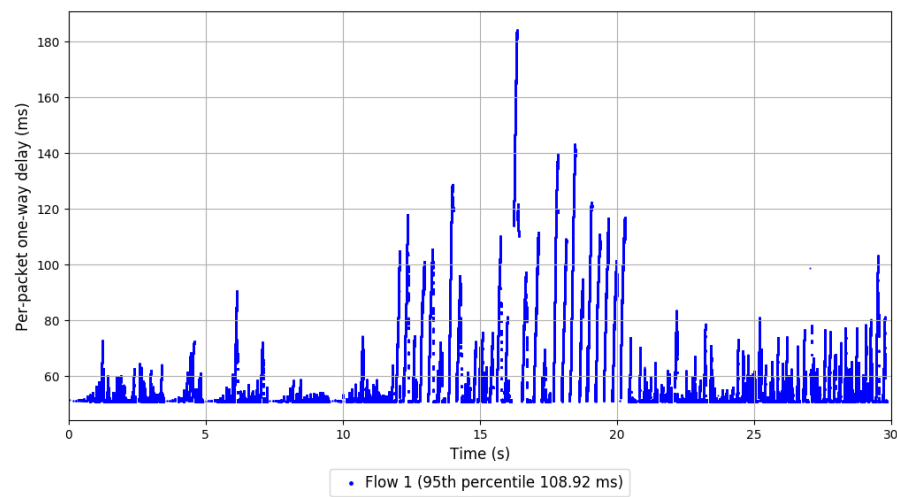
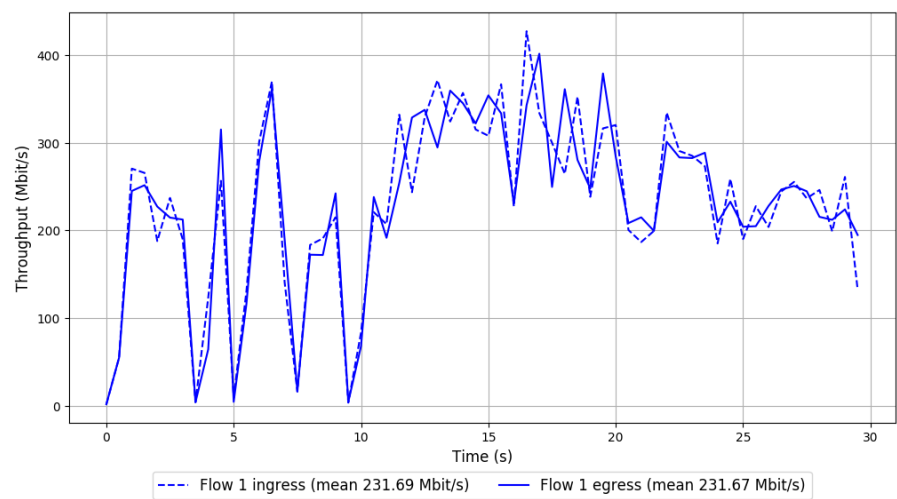
-- Flow 1:

Average throughput: 231.67 Mbit/s

95th percentile per-packet one-way delay: 108.919 ms

Loss rate: 0.01%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-09-21 17:27:30

End at: 2017-09-21 17:28:00

Below is generated by plot.py at 2017-09-21 19:28:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.78 Mbit/s

95th percentile per-packet one-way delay: 83.358 ms

Loss rate: 0.02%

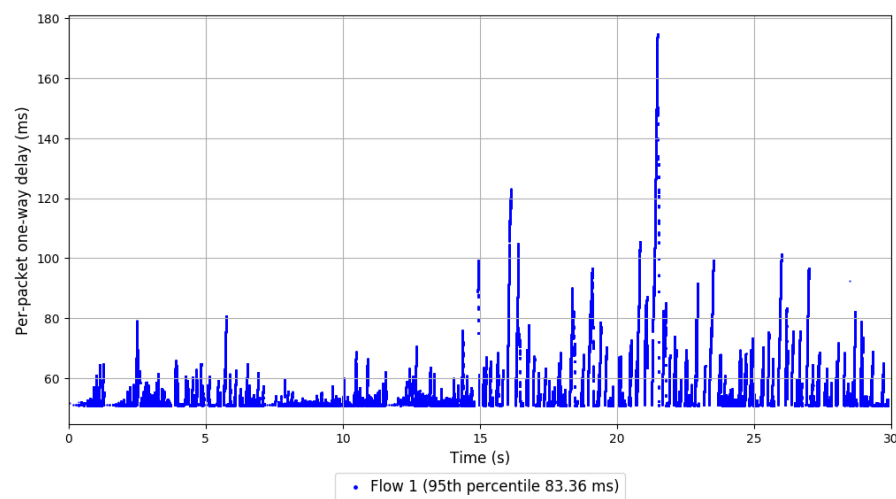
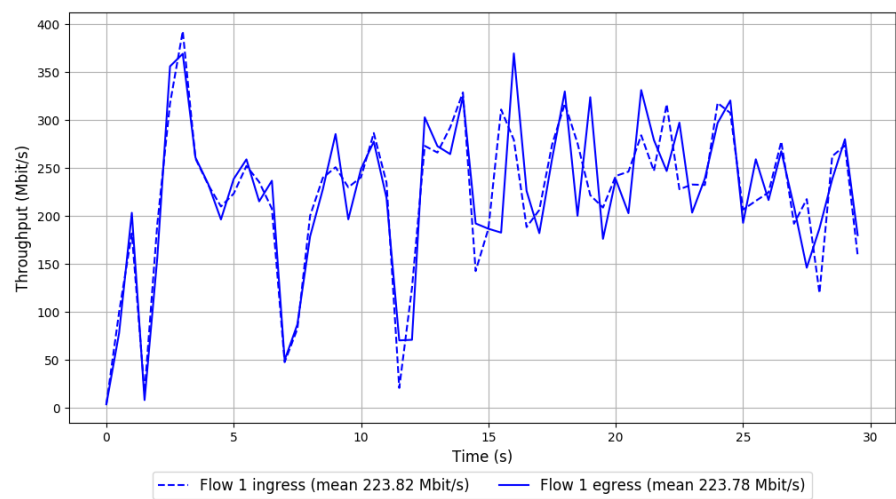
-- Flow 1:

Average throughput: 223.78 Mbit/s

95th percentile per-packet one-way delay: 83.358 ms

Loss rate: 0.02%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-09-21 17:37:51

End at: 2017-09-21 17:38:21

Below is generated by plot.py at 2017-09-21 19:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.90 Mbit/s

95th percentile per-packet one-way delay: 118.312 ms

Loss rate: 0.00%

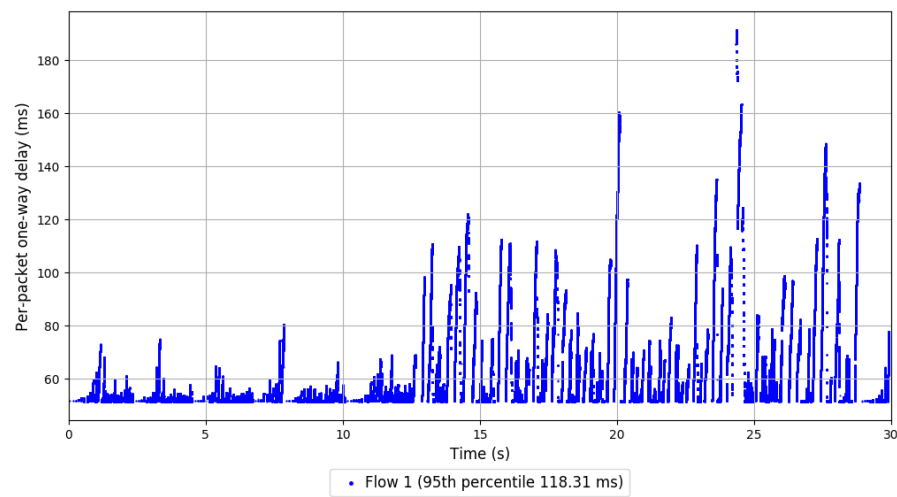
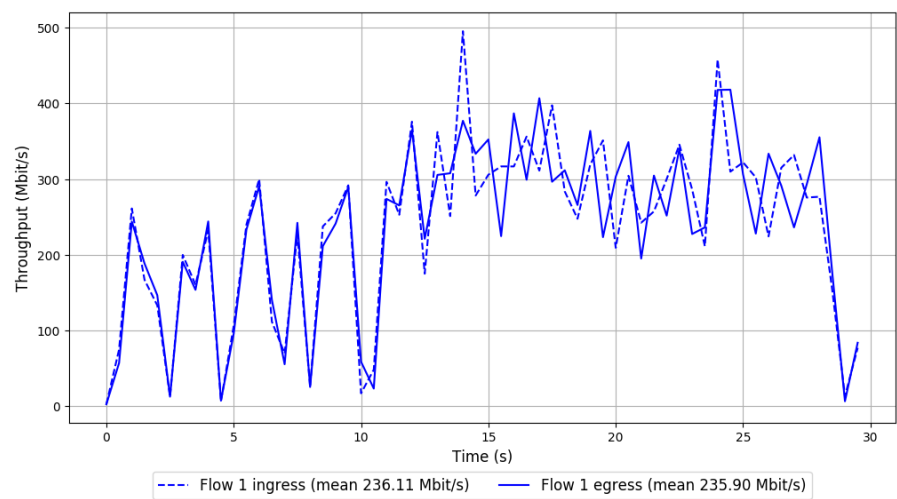
-- Flow 1:

Average throughput: 235.90 Mbit/s

95th percentile per-packet one-way delay: 118.312 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-09-21 17:48:01

End at: 2017-09-21 17:48:31

Below is generated by plot.py at 2017-09-21 19:29:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.66 Mbit/s

95th percentile per-packet one-way delay: 70.831 ms

Loss rate: 0.03%

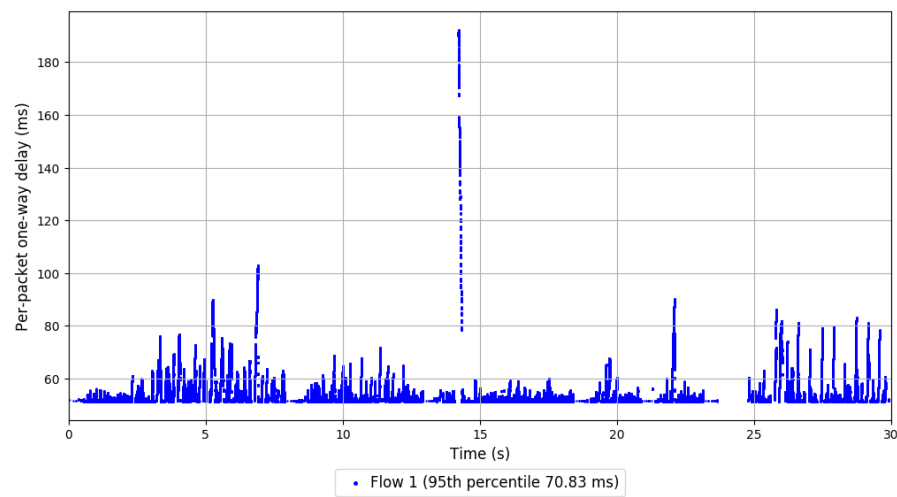
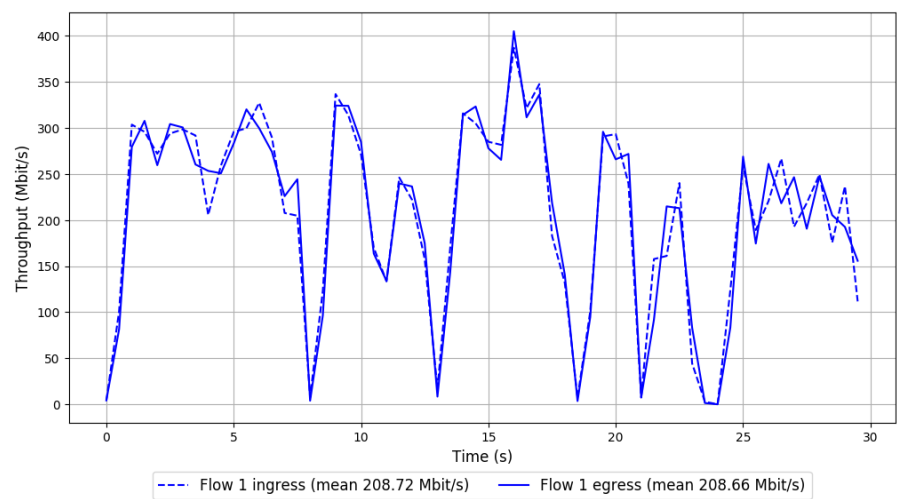
-- Flow 1:

Average throughput: 208.66 Mbit/s

95th percentile per-packet one-way delay: 70.831 ms

Loss rate: 0.03%

Run 10: Report of Verus — Data Link

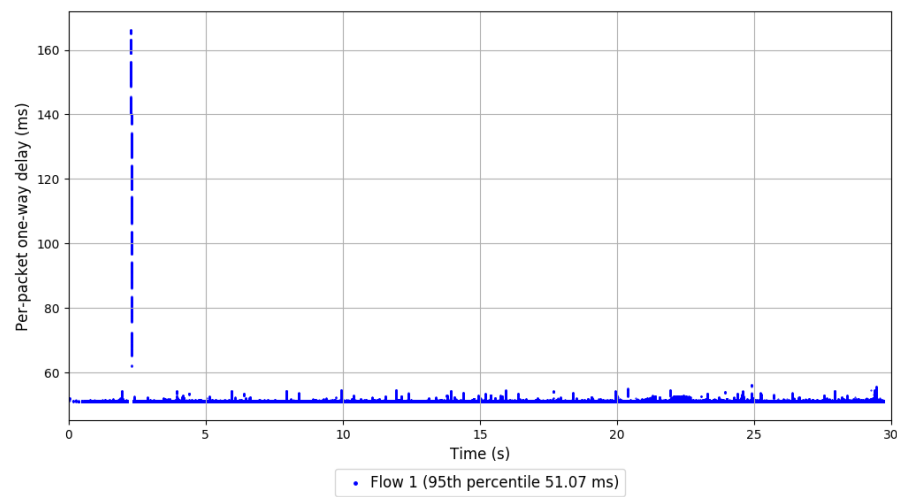
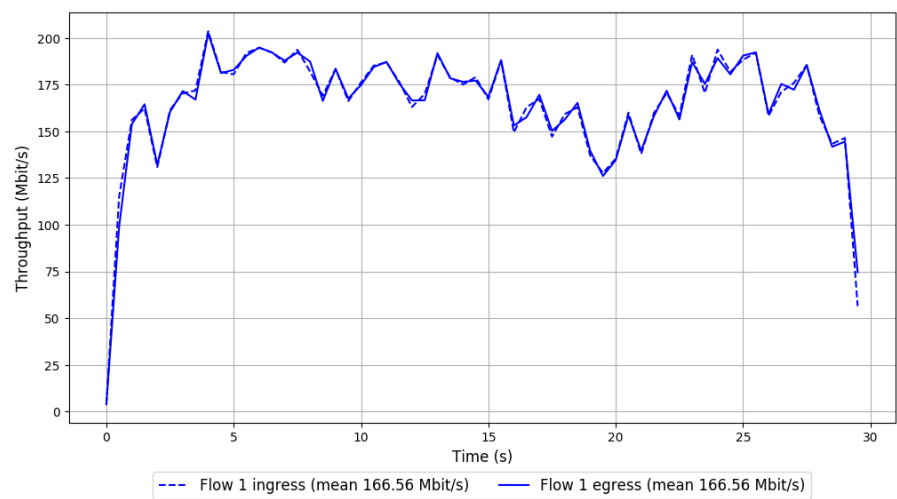


```
Run 1: Statistics of Indigo

Start at: 2017-09-21 16:13:43
End at: 2017-09-21 16:14:13

# Below is generated by plot.py at 2017-09-21 19:30:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 166.56 Mbit/s
95th percentile per-packet one-way delay: 51.068 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 166.56 Mbit/s
95th percentile per-packet one-way delay: 51.068 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-09-21 16:24:11

End at: 2017-09-21 16:24:41

Below is generated by plot.py at 2017-09-21 19:30:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.08 Mbit/s

95th percentile per-packet one-way delay: 51.112 ms

Loss rate: 0.00%

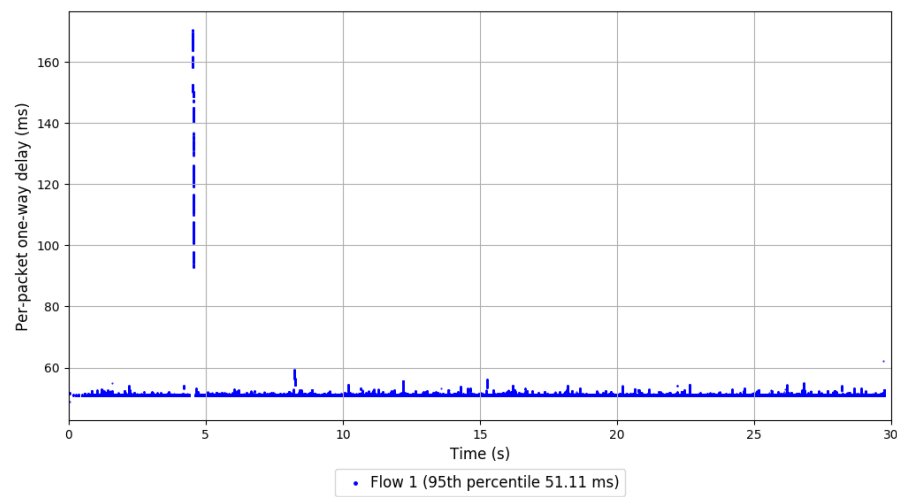
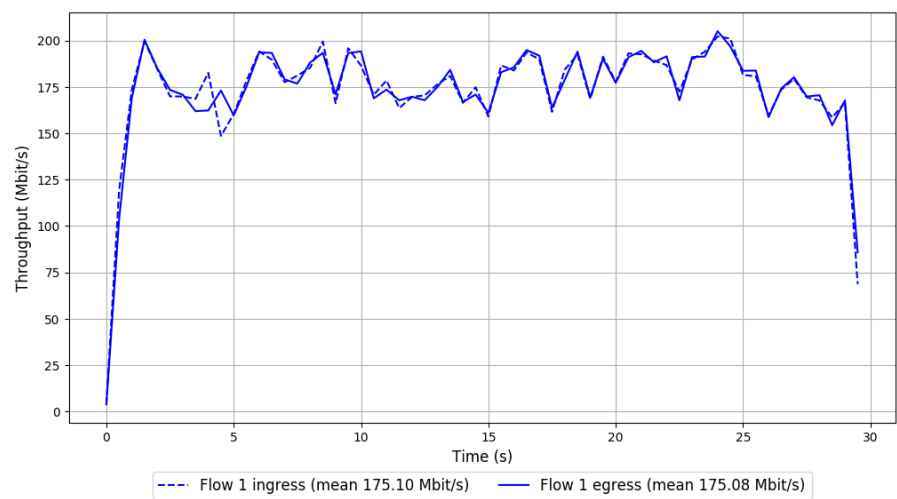
-- Flow 1:

Average throughput: 175.08 Mbit/s

95th percentile per-packet one-way delay: 51.112 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

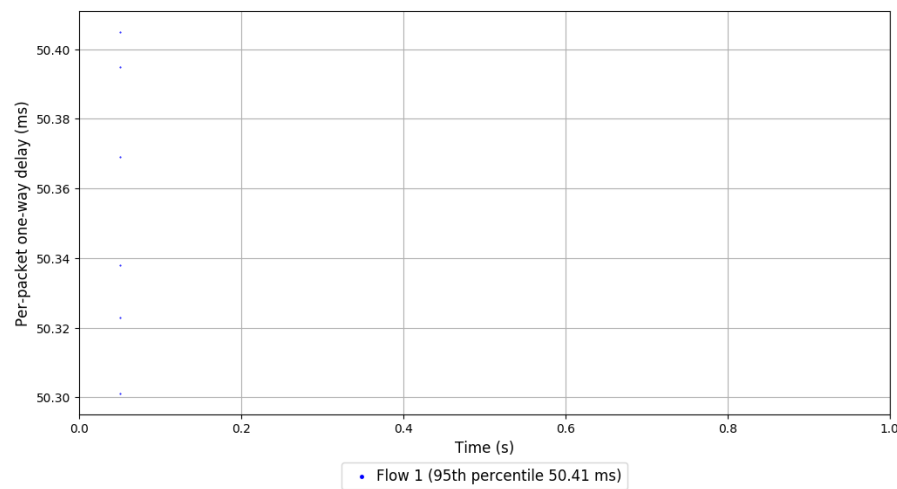
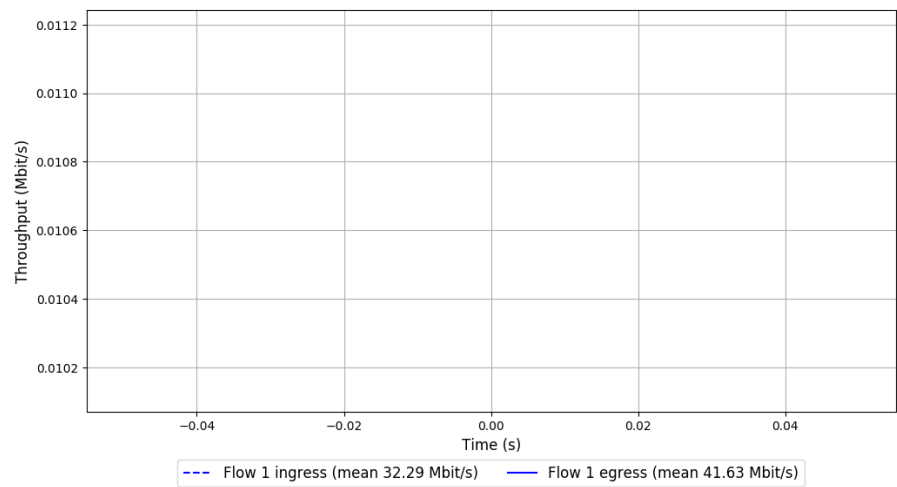


Run 3: Statistics of Indigo

Start at: 2017-09-21 16:34:48

End at: 2017-09-21 16:35:18

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-09-21 16:45:08

End at: 2017-09-21 16:45:38

Below is generated by plot.py at 2017-09-21 19:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.74 Mbit/s

95th percentile per-packet one-way delay: 49.708 ms

Loss rate: 0.00%

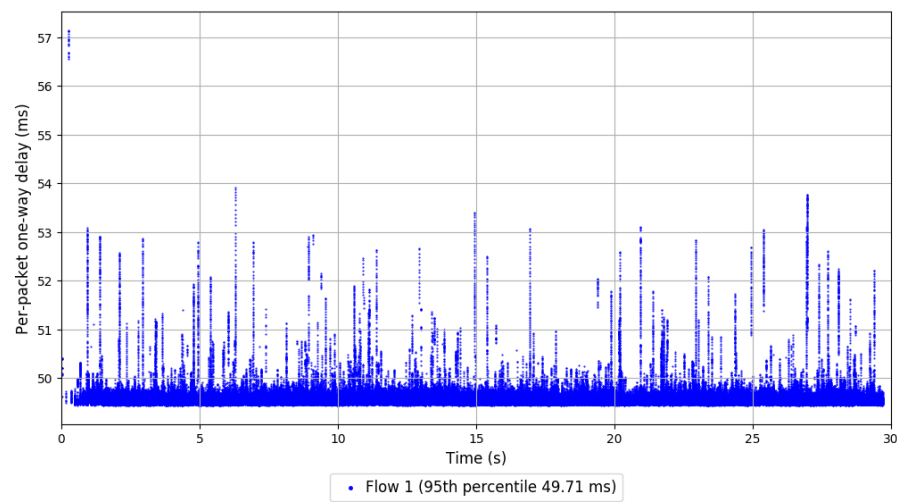
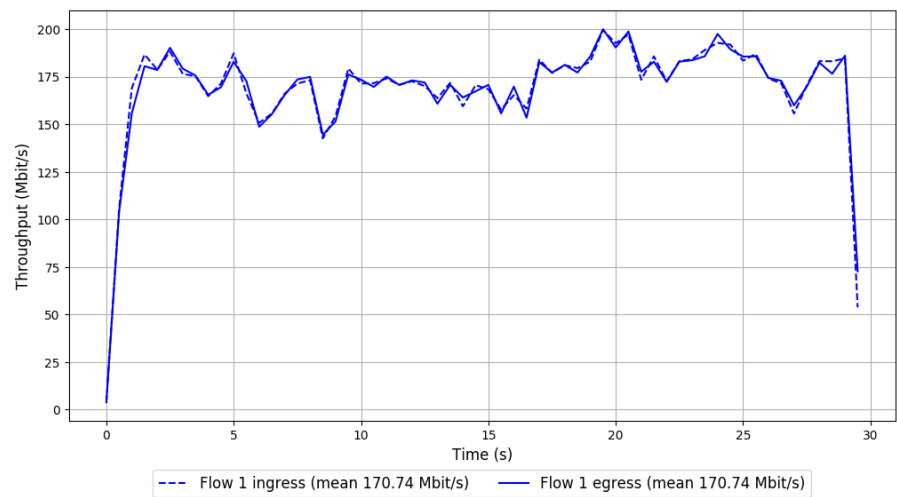
-- Flow 1:

Average throughput: 170.74 Mbit/s

95th percentile per-packet one-way delay: 49.708 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-09-21 16:56:36

End at: 2017-09-21 16:57:06

Below is generated by plot.py at 2017-09-21 19:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 129.07 Mbit/s

95th percentile per-packet one-way delay: 49.672 ms

Loss rate: 0.00%

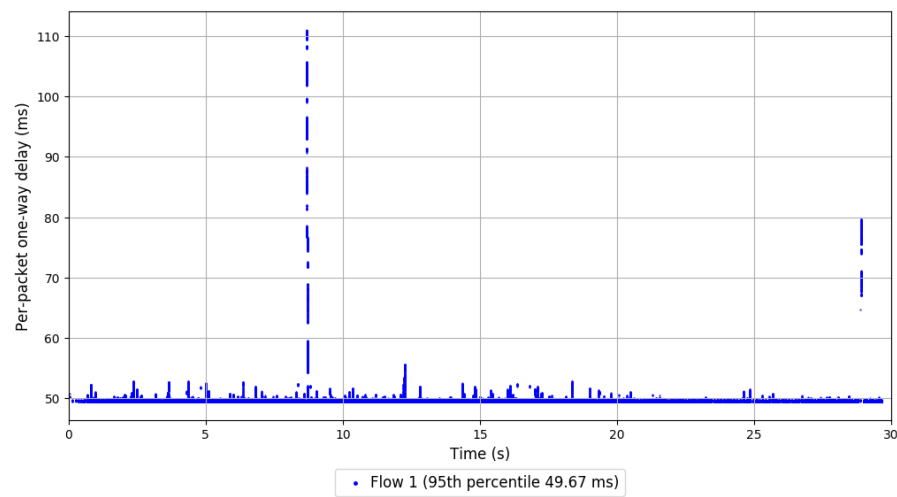
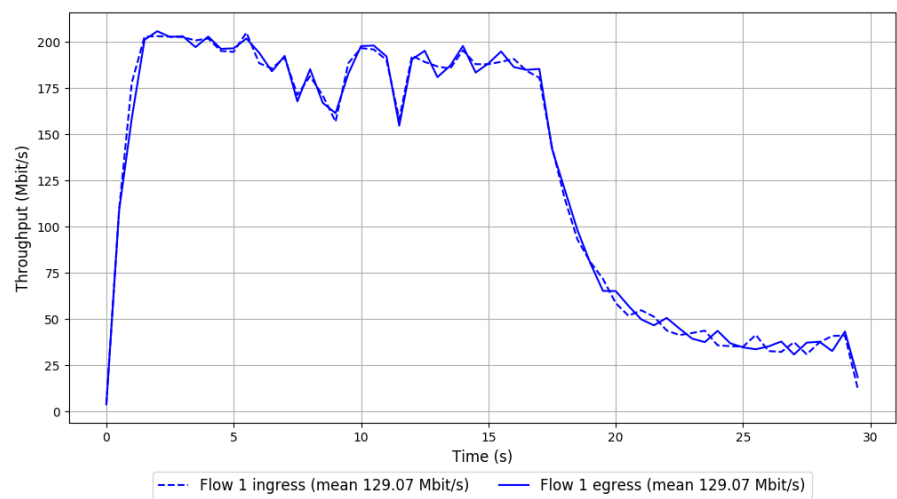
-- Flow 1:

Average throughput: 129.07 Mbit/s

95th percentile per-packet one-way delay: 49.672 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

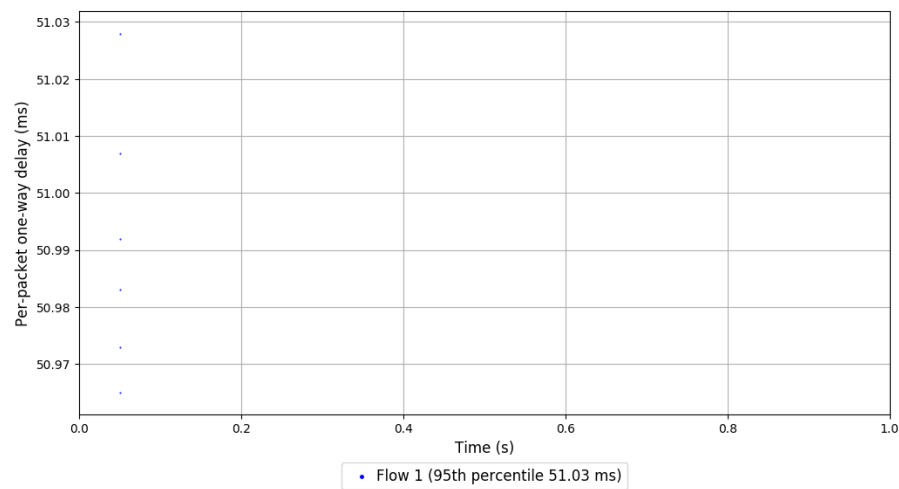
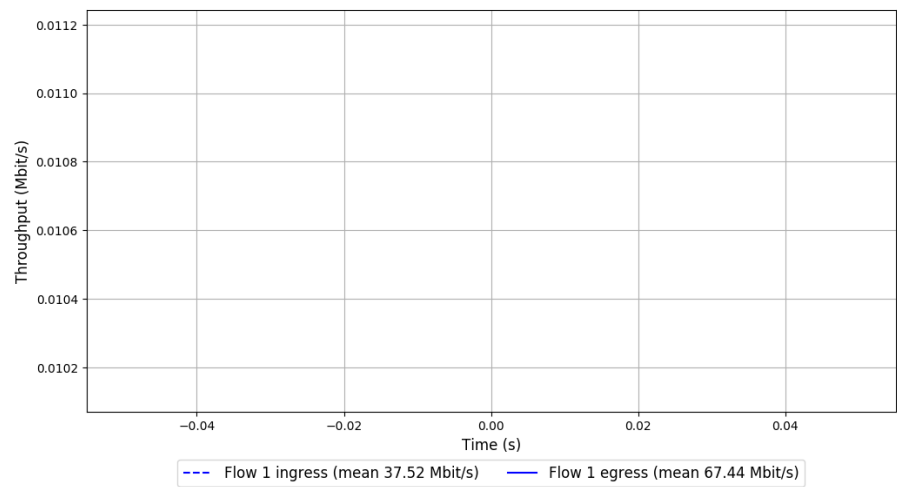


Run 6: Statistics of Indigo

Start at: 2017-09-21 17:07:14

End at: 2017-09-21 17:07:44

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

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

End at: 2017-09-21 17:18:23

Below is generated by plot.py at 2017-09-21 19:31:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.73 Mbit/s

95th percentile per-packet one-way delay: 51.042 ms

Loss rate: 0.00%

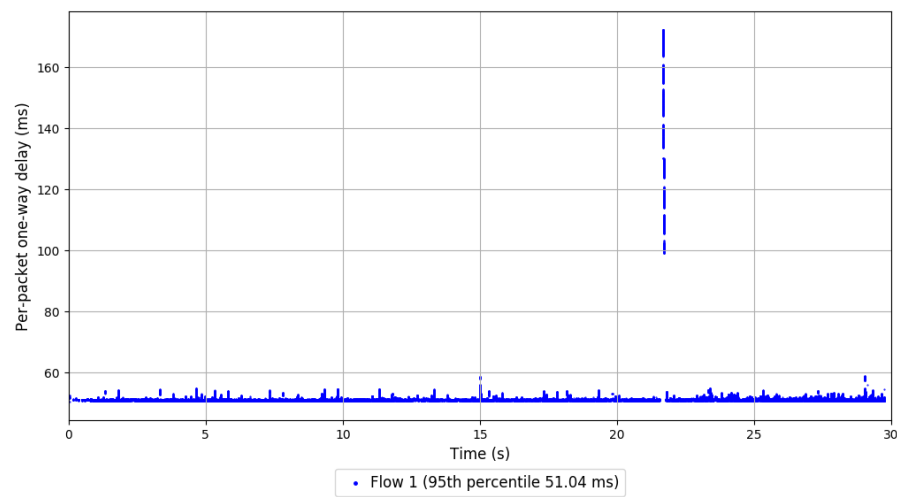
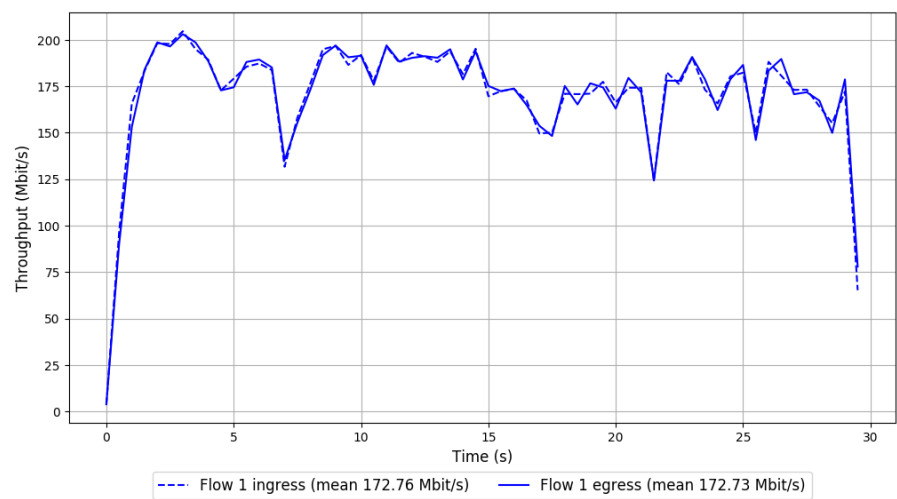
-- Flow 1:

Average throughput: 172.73 Mbit/s

95th percentile per-packet one-way delay: 51.042 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-09-21 17:28:25

End at: 2017-09-21 17:28:55

Below is generated by plot.py at 2017-09-21 19:31:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.39 Mbit/s

95th percentile per-packet one-way delay: 51.014 ms

Loss rate: 0.00%

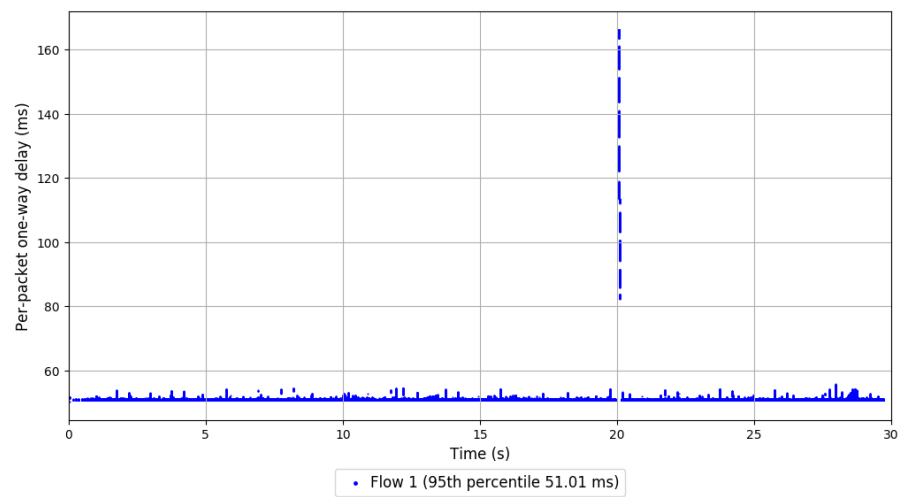
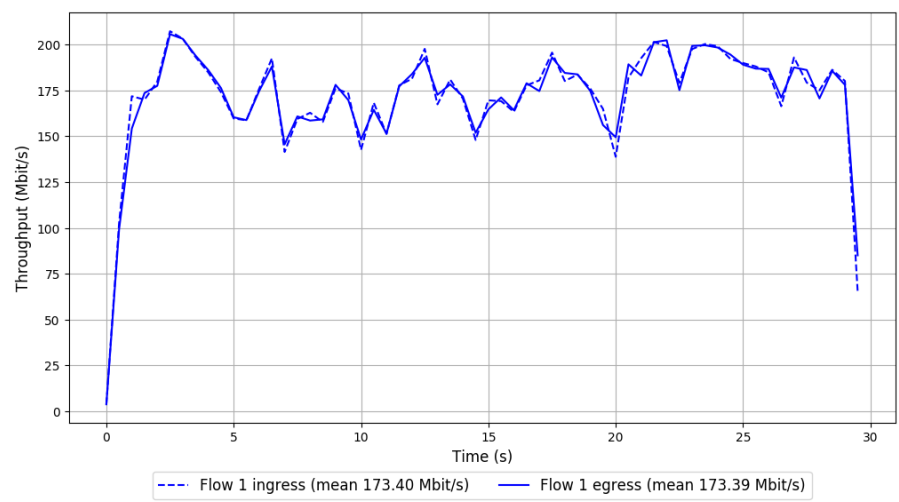
-- Flow 1:

Average throughput: 173.39 Mbit/s

95th percentile per-packet one-way delay: 51.014 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link

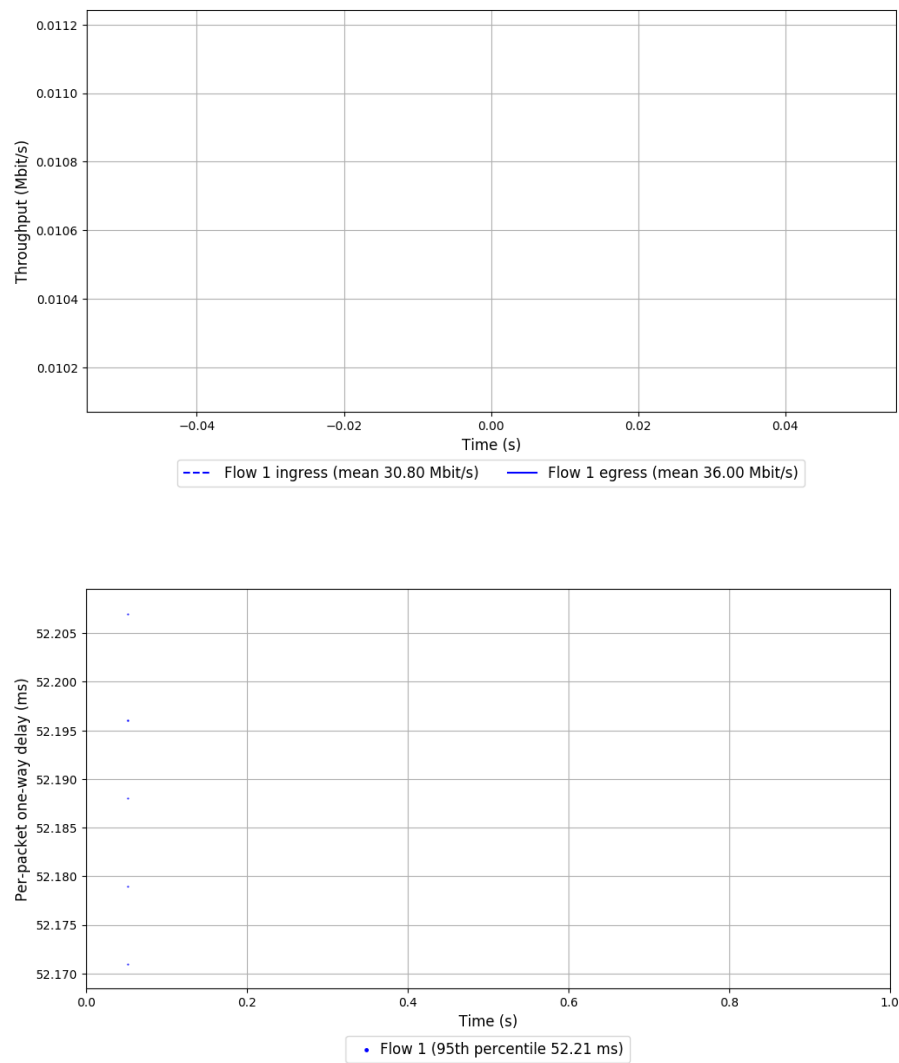


Run 9: Statistics of Indigo

Start at: 2017-09-21 17:38:46

End at: 2017-09-21 17:39:16

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-09-21 17:48:53

End at: 2017-09-21 17:49:23

Below is generated by plot.py at 2017-09-21 19:32:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 142.10 Mbit/s

95th percentile per-packet one-way delay: 51.786 ms

Loss rate: 0.10%

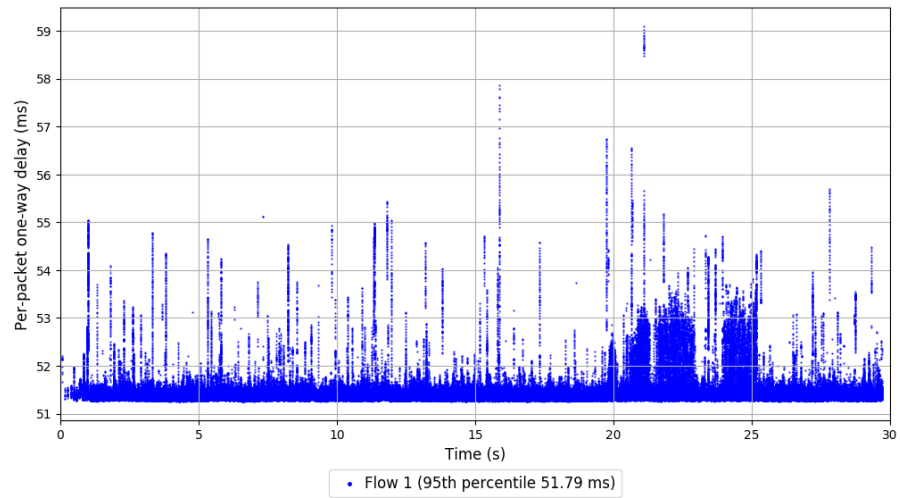
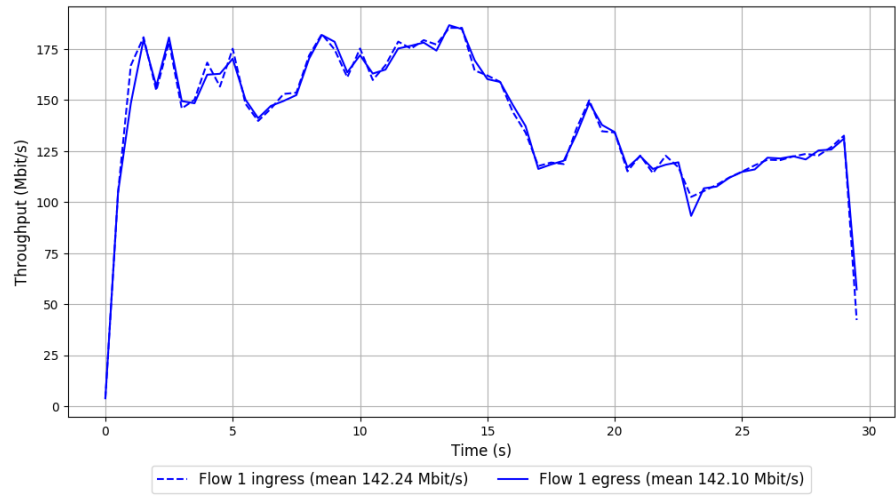
-- Flow 1:

Average throughput: 142.10 Mbit/s

95th percentile per-packet one-way delay: 51.786 ms

Loss rate: 0.10%

Run 10: Report of Indigo — Data Link

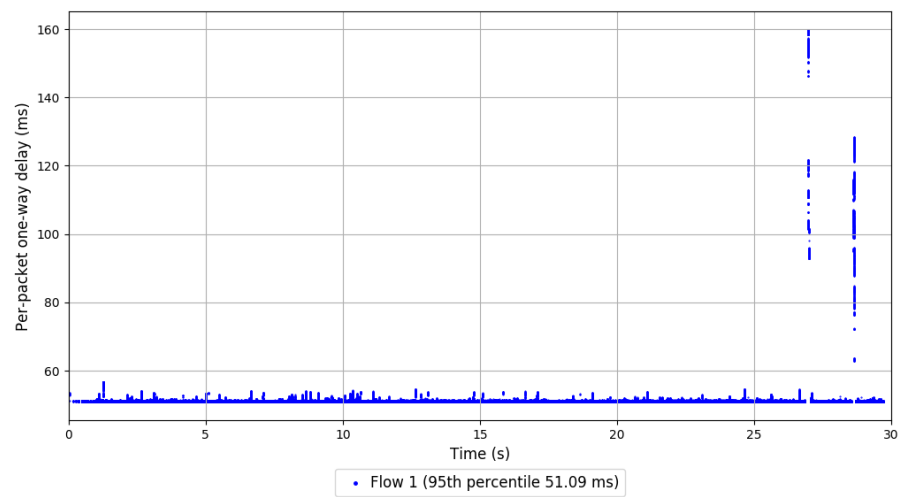
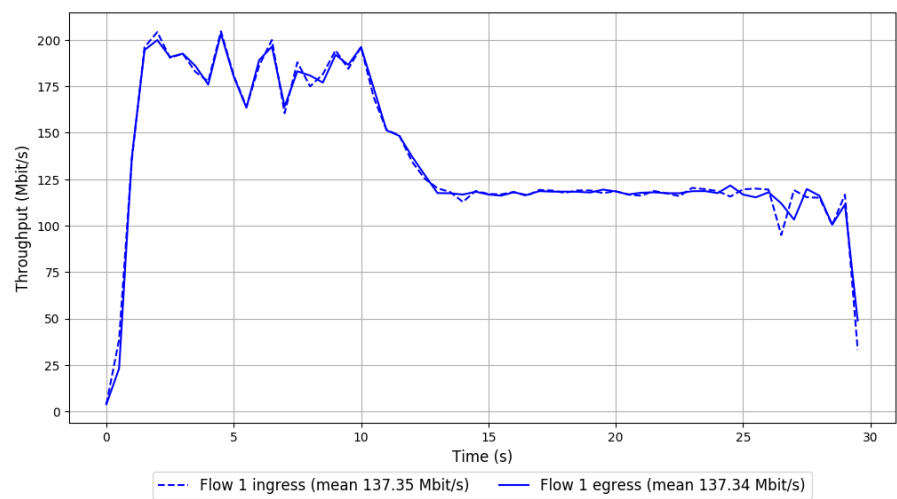


```
Run 1: Statistics of Indigo-calib

Start at: 2017-09-21 16:09:48
End at: 2017-09-21 16:10:18

# Below is generated by plot.py at 2017-09-21 19:32:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 137.34 Mbit/s
95th percentile per-packet one-way delay: 51.095 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 137.34 Mbit/s
95th percentile per-packet one-way delay: 51.095 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-calib — Data Link

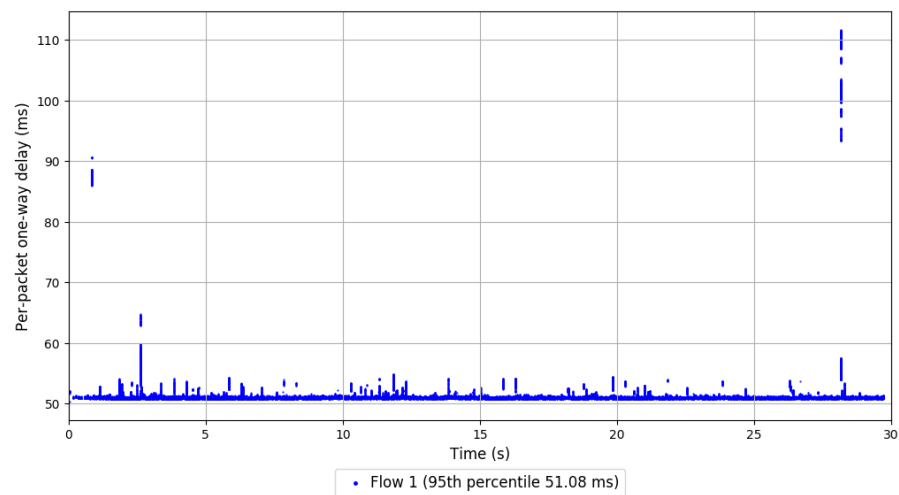
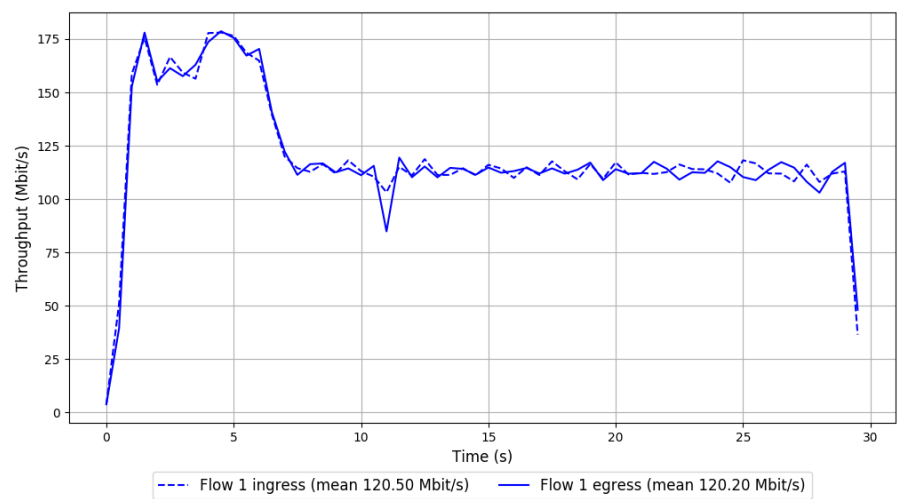


```
Run 2: Statistics of Indigo-calib

Start at: 2017-09-21 16:20:17
End at: 2017-09-21 16:20:47

# Below is generated by plot.py at 2017-09-21 19:32:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 120.20 Mbit/s
95th percentile per-packet one-way delay: 51.079 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 120.20 Mbit/s
95th percentile per-packet one-way delay: 51.079 ms
Loss rate: 0.25%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-09-21 16:30:44

End at: 2017-09-21 16:31:14

Below is generated by plot.py at 2017-09-21 19:33:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.51 Mbit/s

95th percentile per-packet one-way delay: 51.091 ms

Loss rate: 0.33%

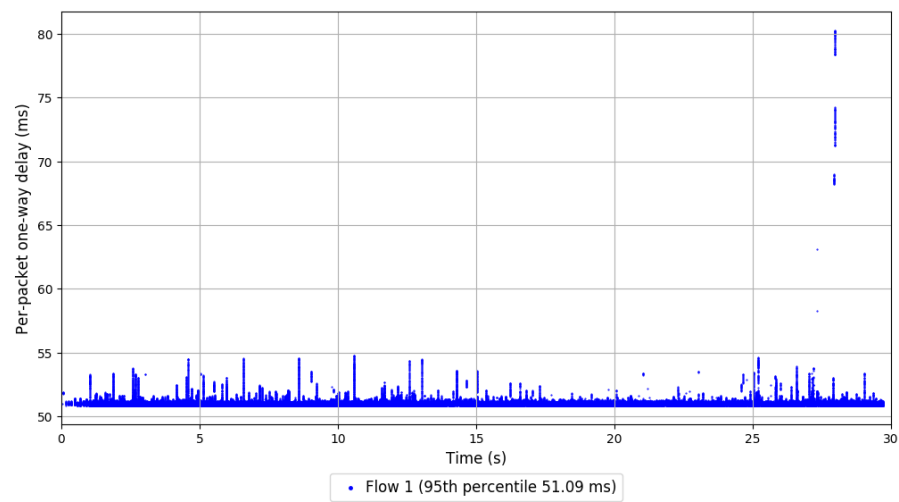
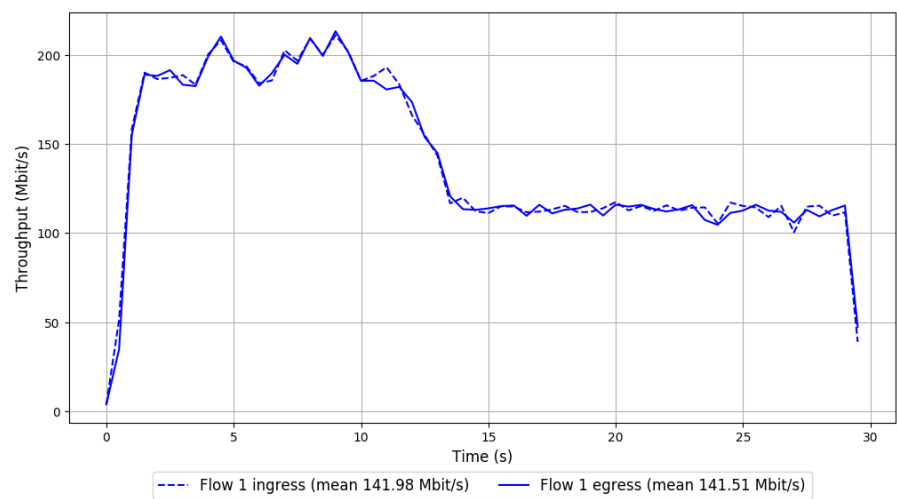
-- Flow 1:

Average throughput: 141.51 Mbit/s

95th percentile per-packet one-way delay: 51.091 ms

Loss rate: 0.33%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-09-21 16:41:10

End at: 2017-09-21 16:41:40

Below is generated by plot.py at 2017-09-21 19:33:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 115.27 Mbit/s

95th percentile per-packet one-way delay: 49.707 ms

Loss rate: 0.00%

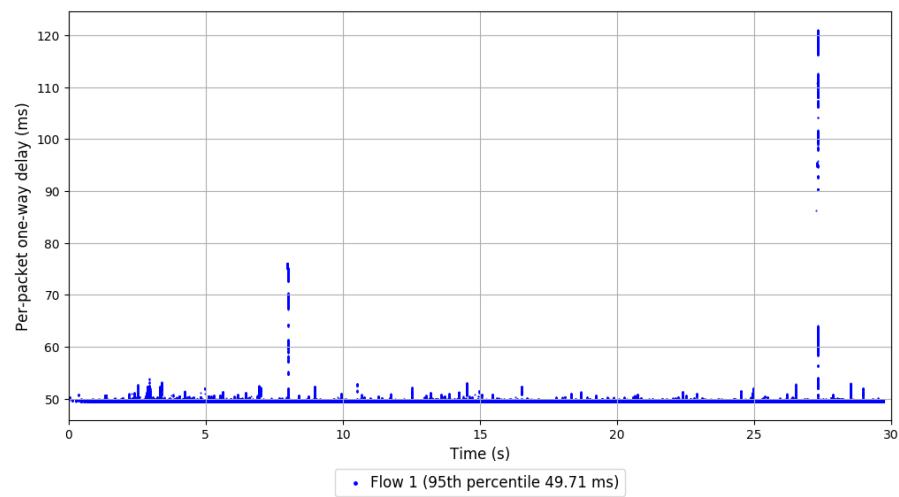
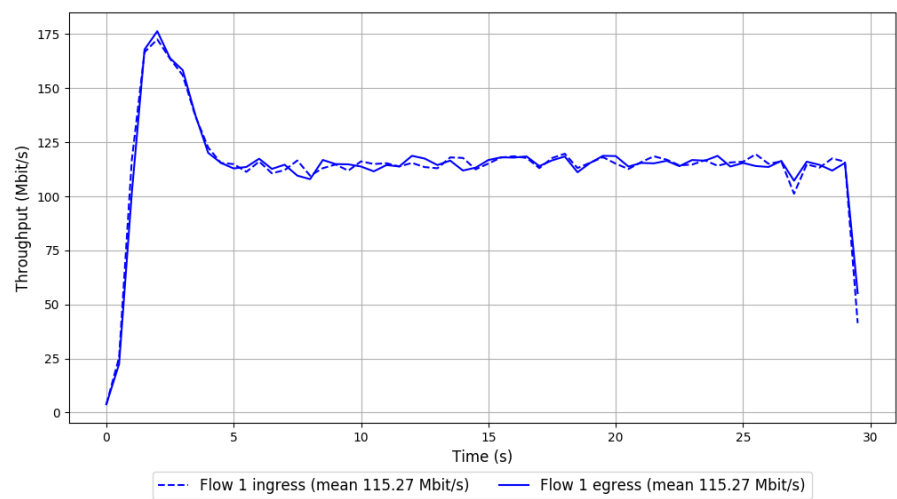
-- Flow 1:

Average throughput: 115.27 Mbit/s

95th percentile per-packet one-way delay: 49.707 ms

Loss rate: 0.00%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-09-21 16:52:26

End at: 2017-09-21 16:52:56

Below is generated by plot.py at 2017-09-21 19:34:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.08 Mbit/s

95th percentile per-packet one-way delay: 49.666 ms

Loss rate: 0.00%

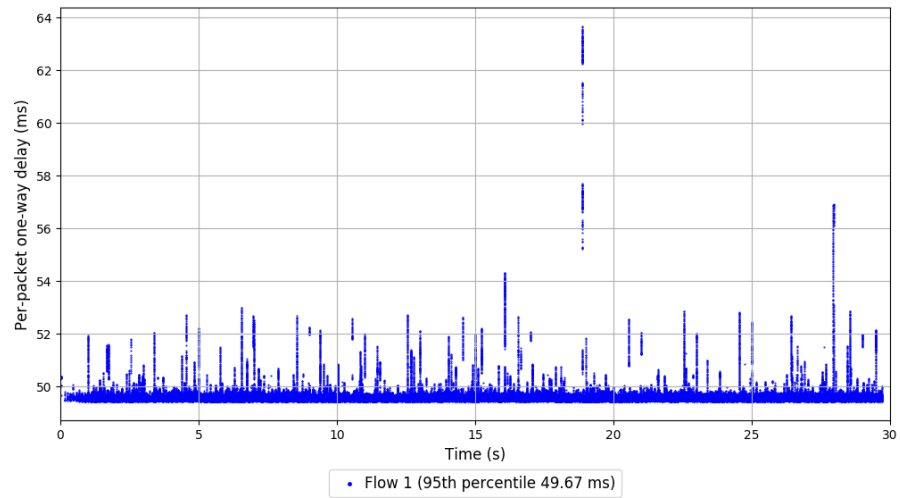
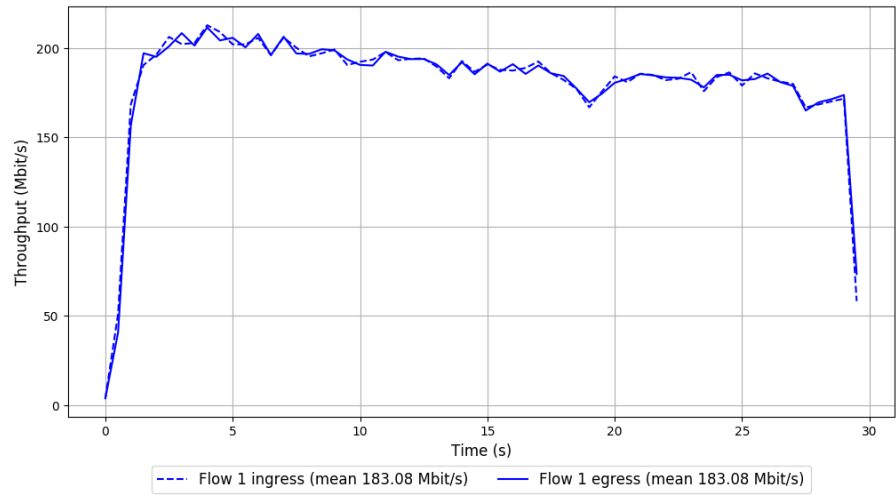
-- Flow 1:

Average throughput: 183.08 Mbit/s

95th percentile per-packet one-way delay: 49.666 ms

Loss rate: 0.00%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-09-21 17:03:08

End at: 2017-09-21 17:03:38

Below is generated by plot.py at 2017-09-21 19:34:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 108.92 Mbit/s

95th percentile per-packet one-way delay: 49.668 ms

Loss rate: 0.00%

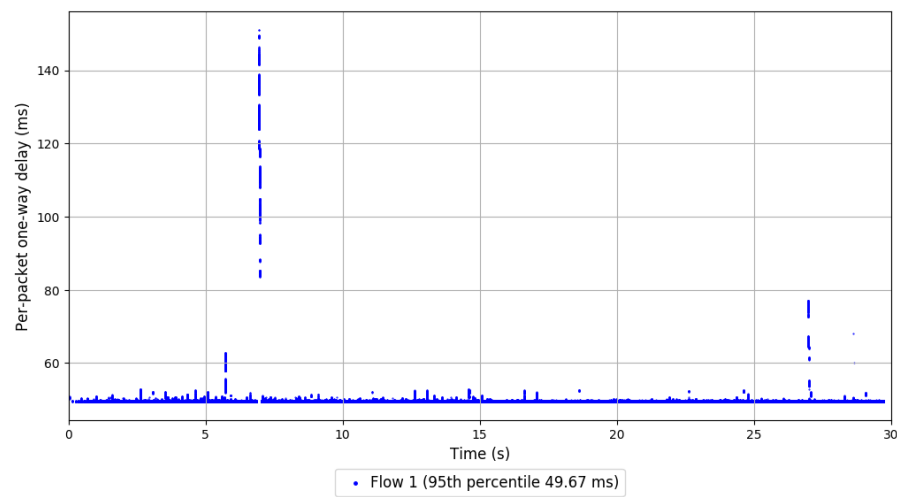
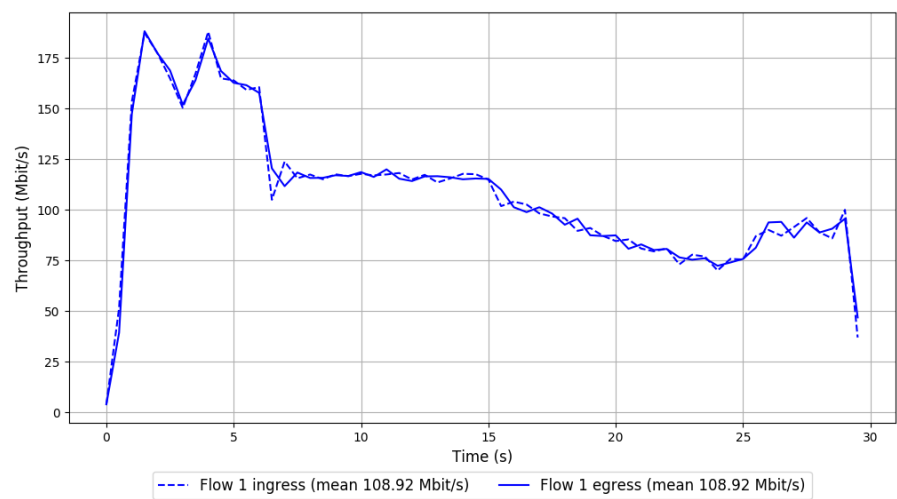
-- Flow 1:

Average throughput: 108.92 Mbit/s

95th percentile per-packet one-way delay: 49.668 ms

Loss rate: 0.00%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-09-21 17:13:43

End at: 2017-09-21 17:14:13

Below is generated by plot.py at 2017-09-21 19:34:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 139.92 Mbit/s

95th percentile per-packet one-way delay: 51.013 ms

Loss rate: 0.00%

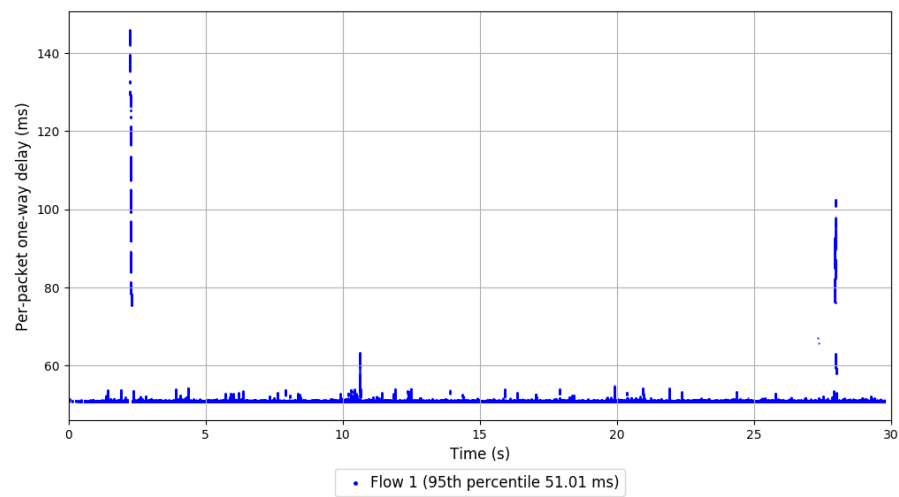
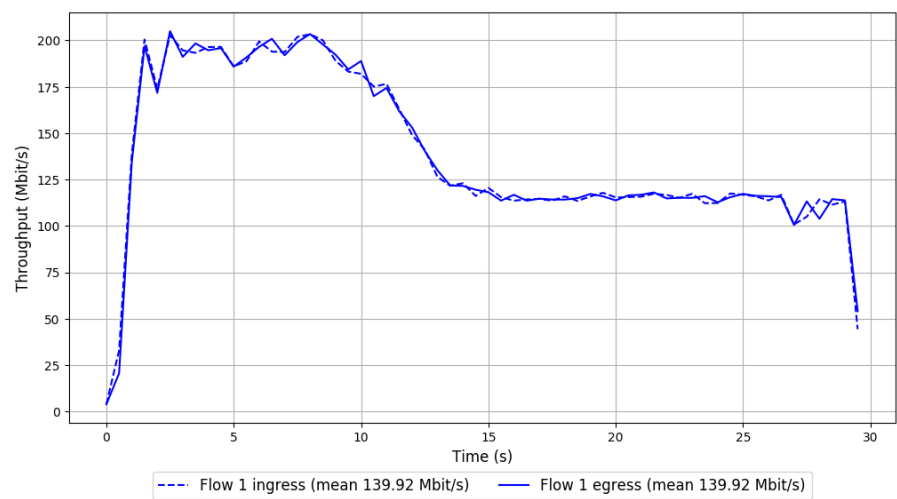
-- Flow 1:

Average throughput: 139.92 Mbit/s

95th percentile per-packet one-way delay: 51.013 ms

Loss rate: 0.00%

Run 7: Report of Indigo-calib — Data Link

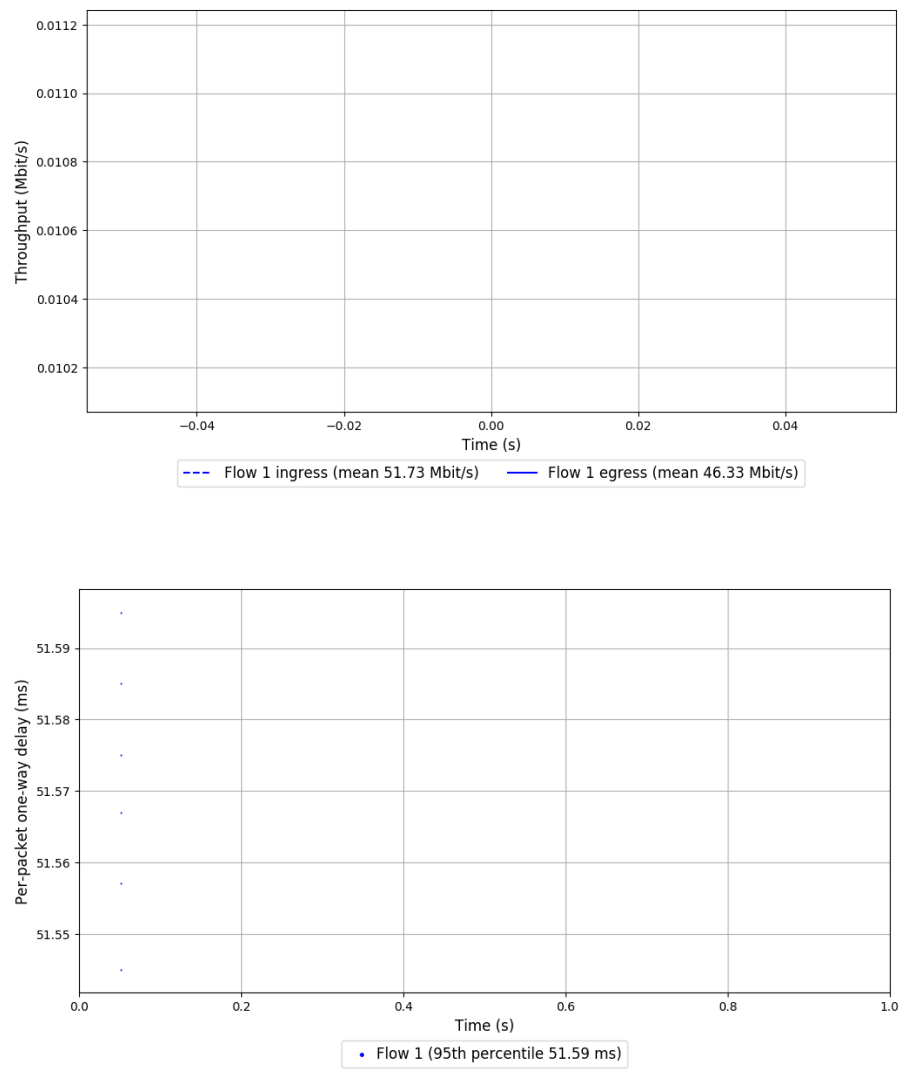


Run 8: Statistics of Indigo-calib

Start at: 2017-09-21 17:24:42

End at: 2017-09-21 17:25:12

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-09-21 17:34:49

End at: 2017-09-21 17:35:19

Below is generated by plot.py at 2017-09-21 19:34:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.76 Mbit/s

95th percentile per-packet one-way delay: 51.045 ms

Loss rate: 0.12%

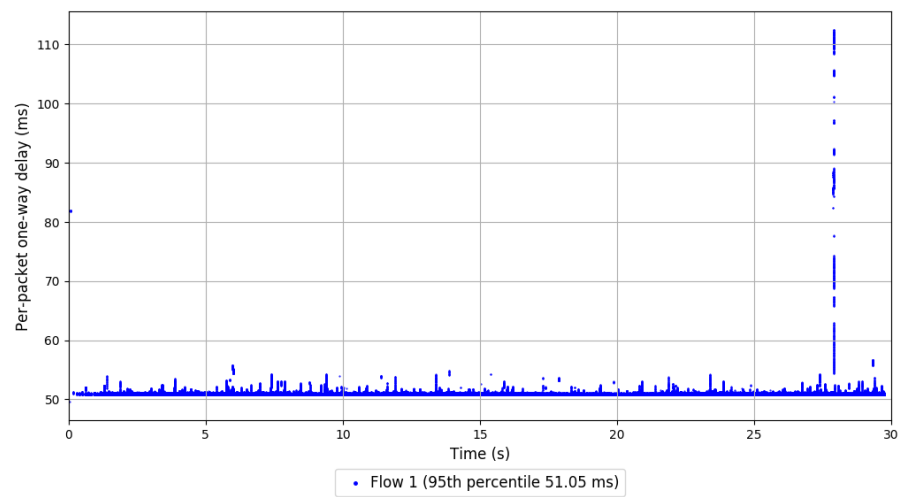
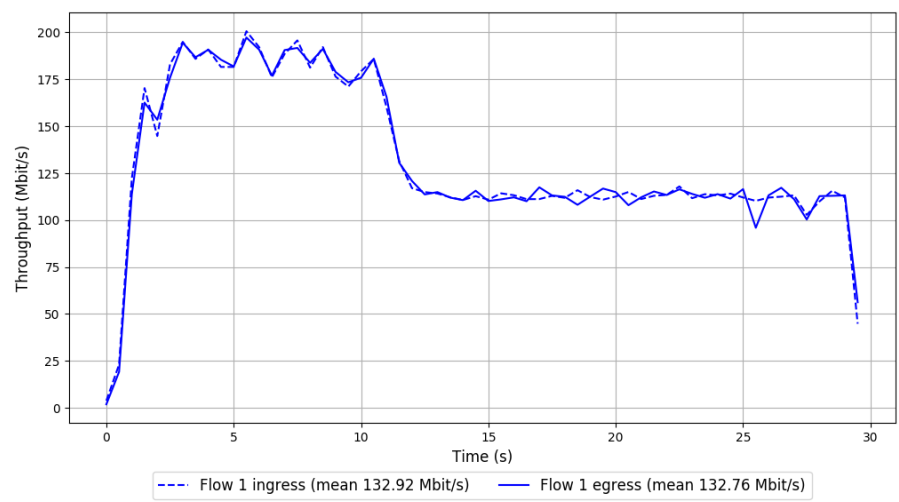
-- Flow 1:

Average throughput: 132.76 Mbit/s

95th percentile per-packet one-way delay: 51.045 ms

Loss rate: 0.12%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-09-21 17:44:57

End at: 2017-09-21 17:45:27

Below is generated by plot.py at 2017-09-21 19:34:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.40 Mbit/s

95th percentile per-packet one-way delay: 51.553 ms

Loss rate: 0.00%

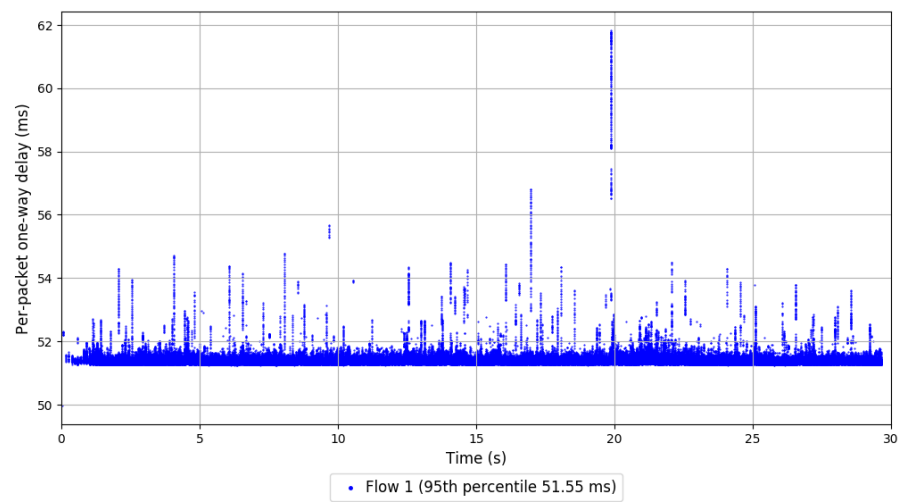
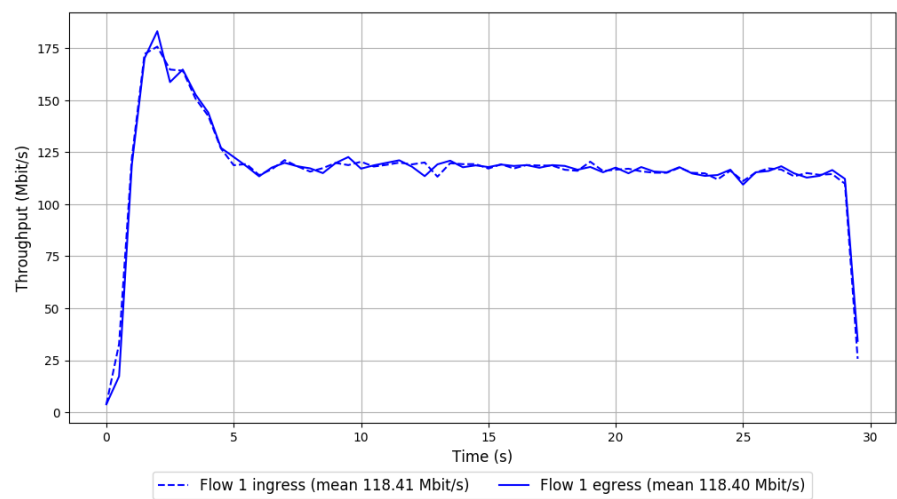
-- Flow 1:

Average throughput: 118.40 Mbit/s

95th percentile per-packet one-way delay: 51.553 ms

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

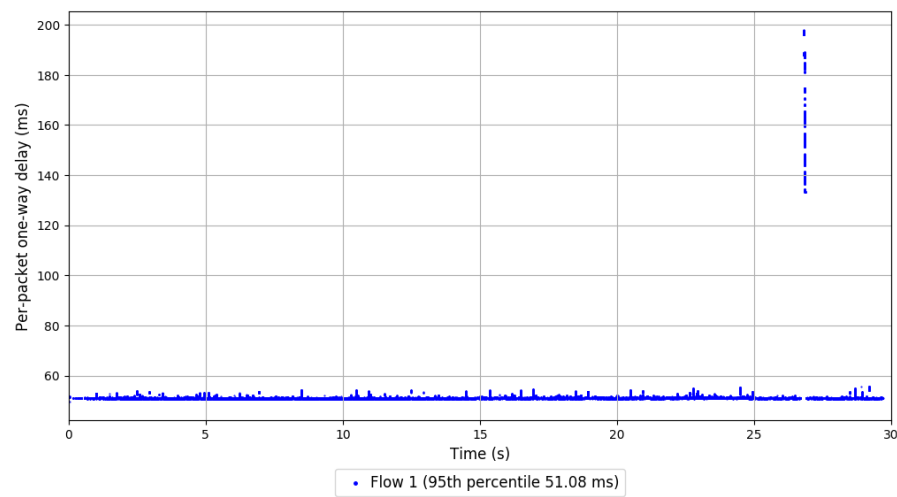
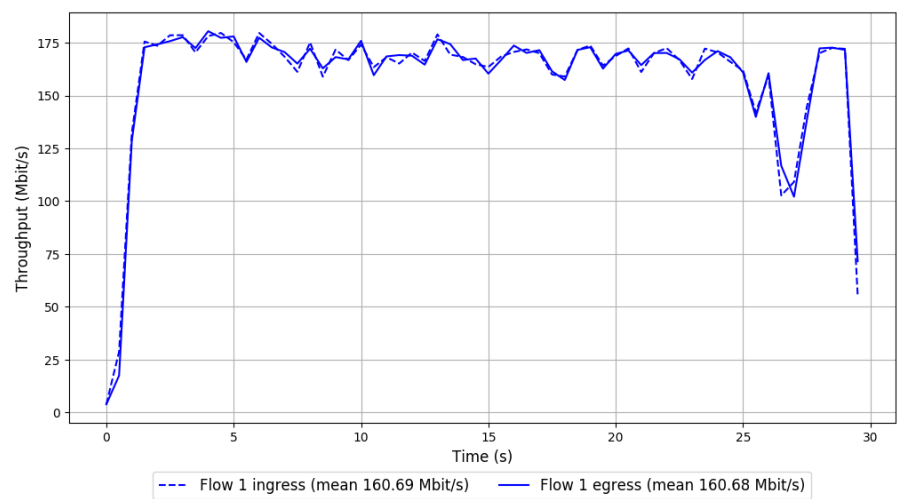


```
Run 1: Statistics of Indigo-delay

Start at: 2017-09-21 16:11:18
End at: 2017-09-21 16:11:48

# Below is generated by plot.py at 2017-09-21 19:35:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 160.68 Mbit/s
95th percentile per-packet one-way delay: 51.076 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 160.68 Mbit/s
95th percentile per-packet one-way delay: 51.076 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-delay — Data Link

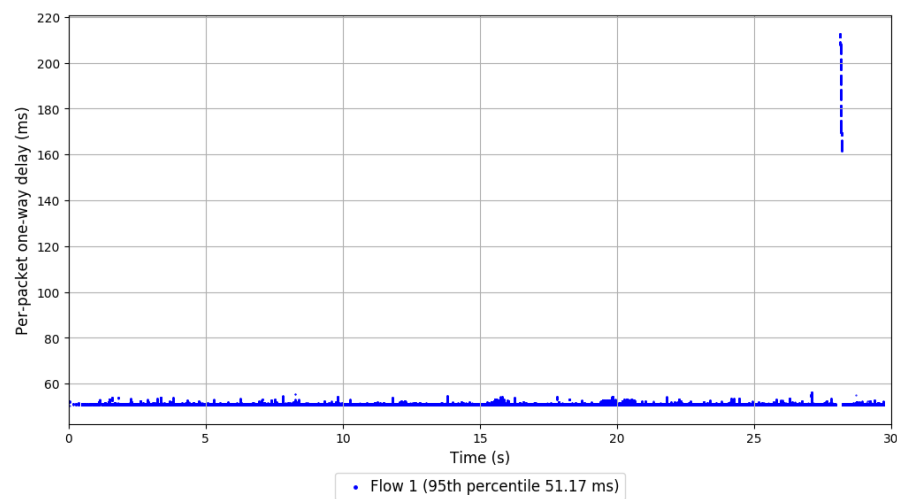
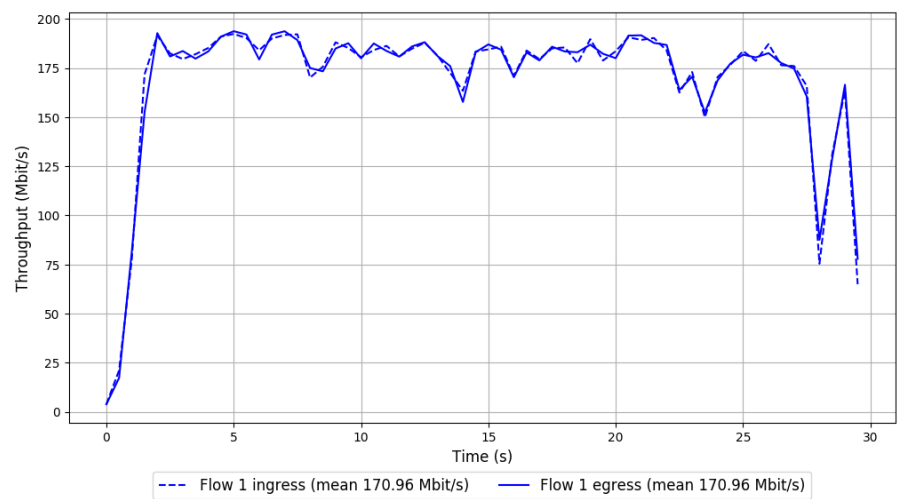


```
Run 2: Statistics of Indigo-delay

Start at: 2017-09-21 16:21:47
End at: 2017-09-21 16:22:17

# Below is generated by plot.py at 2017-09-21 19:36:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 170.96 Mbit/s
95th percentile per-packet one-way delay: 51.170 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 170.96 Mbit/s
95th percentile per-packet one-way delay: 51.170 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-delay — Data Link

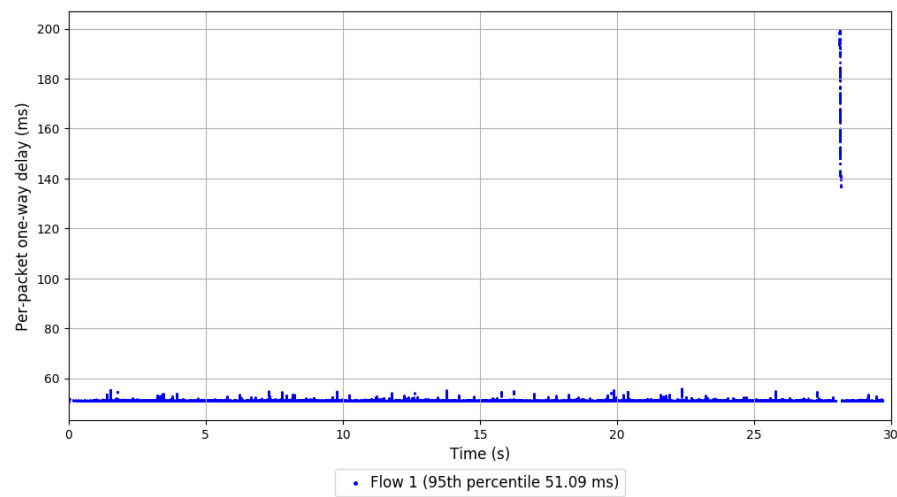
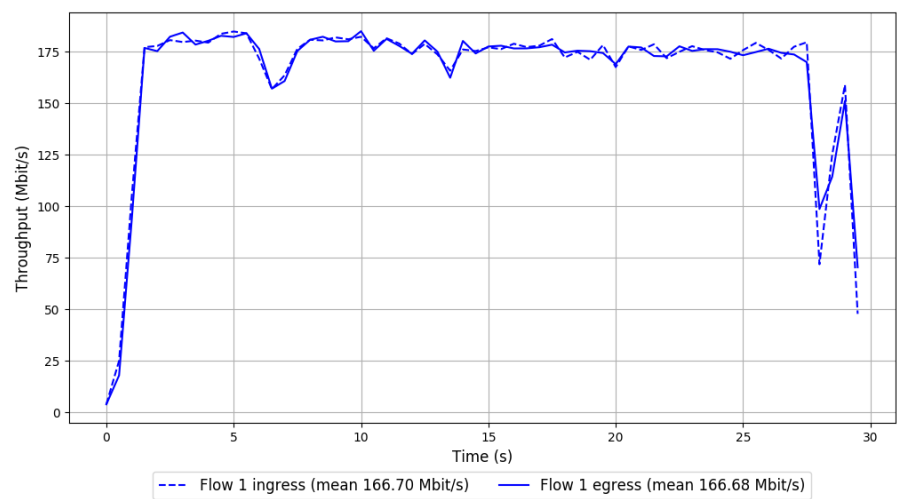


```
Run 3: Statistics of Indigo-delay

Start at: 2017-09-21 16:32:17
End at: 2017-09-21 16:32:47

# Below is generated by plot.py at 2017-09-21 19:36:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 166.68 Mbit/s
95th percentile per-packet one-way delay: 51.093 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 166.68 Mbit/s
95th percentile per-packet one-way delay: 51.093 ms
Loss rate: 0.01%
```

Run 3: Report of Indigo-delay — Data Link



Run 4: Statistics of Indigo-delay

Start at: 2017-09-21 16:42:35

End at: 2017-09-21 16:43:05

Below is generated by plot.py at 2017-09-21 19:37:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 163.87 Mbit/s

95th percentile per-packet one-way delay: 49.681 ms

Loss rate: 0.00%

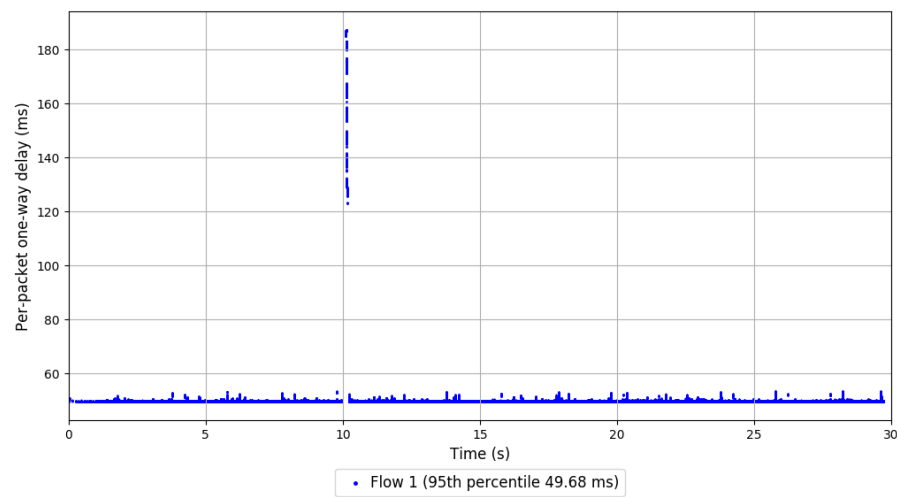
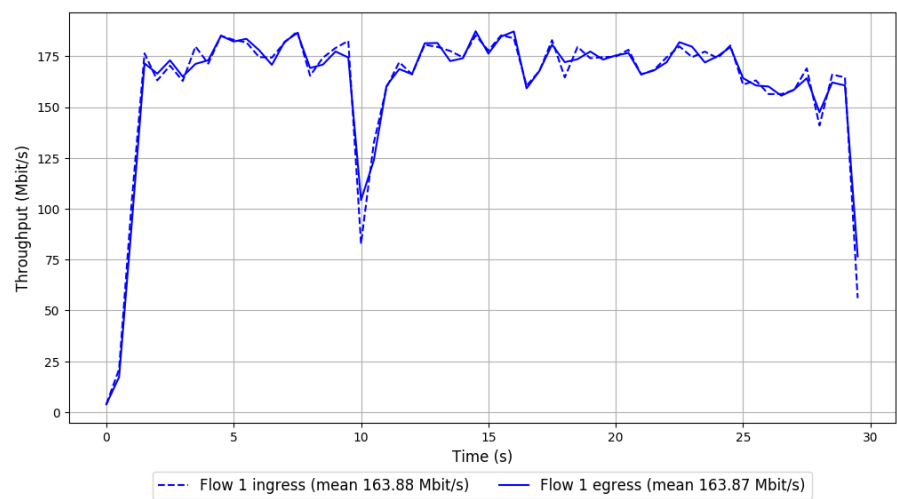
-- Flow 1:

Average throughput: 163.87 Mbit/s

95th percentile per-packet one-way delay: 49.681 ms

Loss rate: 0.00%

Run 4: Report of Indigo-delay — Data Link



Run 5: Statistics of Indigo-delay

Start at: 2017-09-21 16:54:02

End at: 2017-09-21 16:54:32

Below is generated by plot.py at 2017-09-21 19:37:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.90 Mbit/s

95th percentile per-packet one-way delay: 49.675 ms

Loss rate: 0.00%

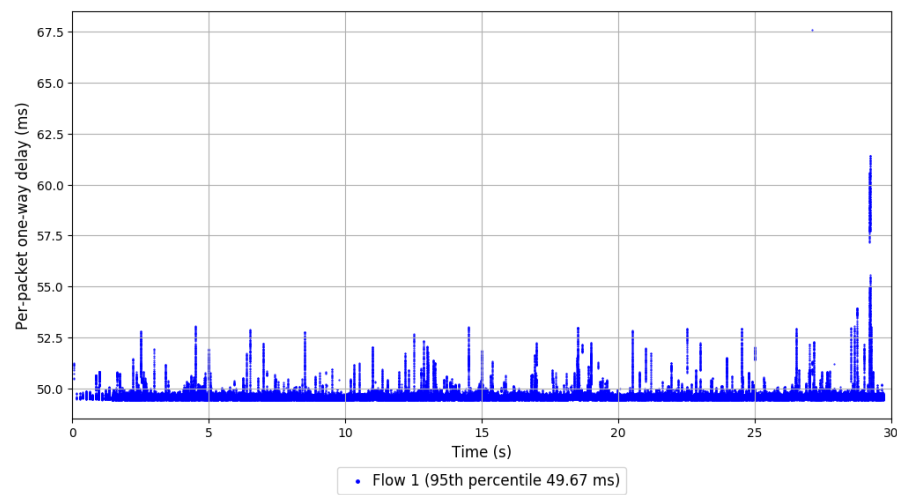
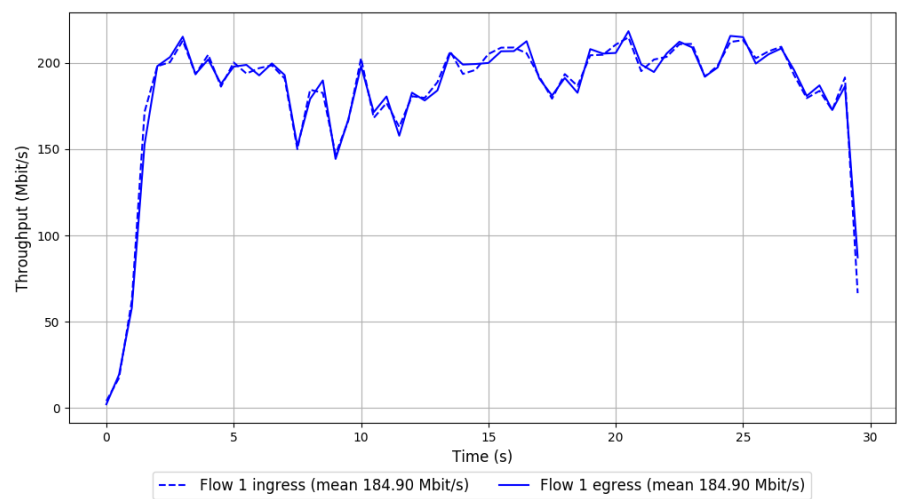
-- Flow 1:

Average throughput: 184.90 Mbit/s

95th percentile per-packet one-way delay: 49.675 ms

Loss rate: 0.00%

Run 5: Report of Indigo-delay — Data Link



Run 6: Statistics of Indigo-delay

Start at: 2017-09-21 17:04:38

End at: 2017-09-21 17:05:08

Below is generated by plot.py at 2017-09-21 19:37:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 162.22 Mbit/s

95th percentile per-packet one-way delay: 49.644 ms

Loss rate: 0.00%

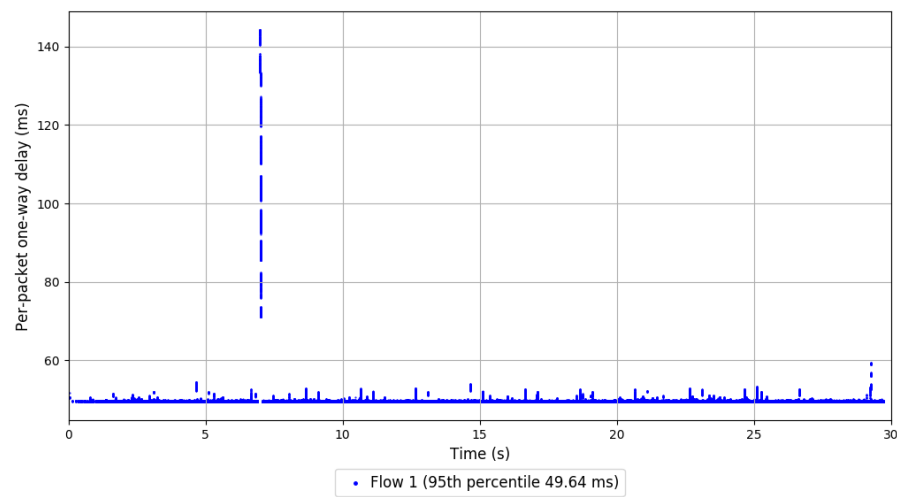
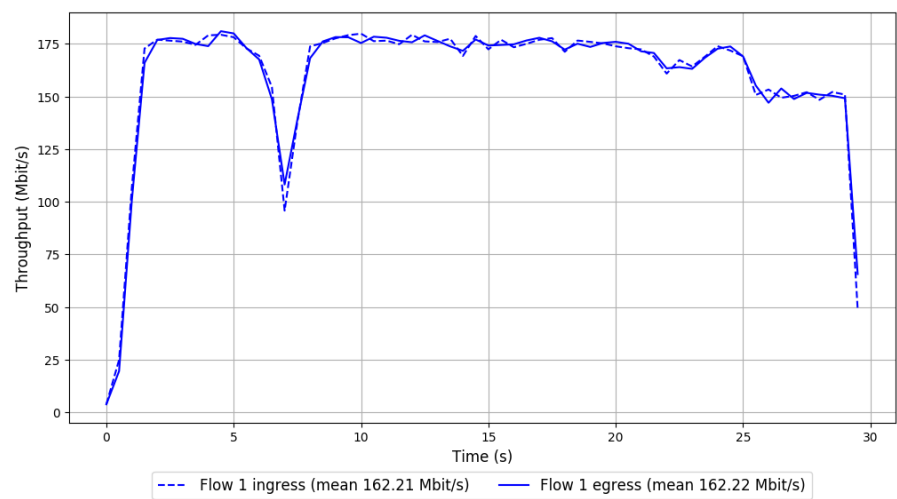
-- Flow 1:

Average throughput: 162.22 Mbit/s

95th percentile per-packet one-way delay: 49.644 ms

Loss rate: 0.00%

Run 6: Report of Indigo-delay — Data Link



Run 7: Statistics of Indigo-delay

Start at: 2017-09-21 17:15:11

End at: 2017-09-21 17:15:41

Below is generated by plot.py at 2017-09-21 19:37:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.79 Mbit/s

95th percentile per-packet one-way delay: 51.009 ms

Loss rate: 0.00%

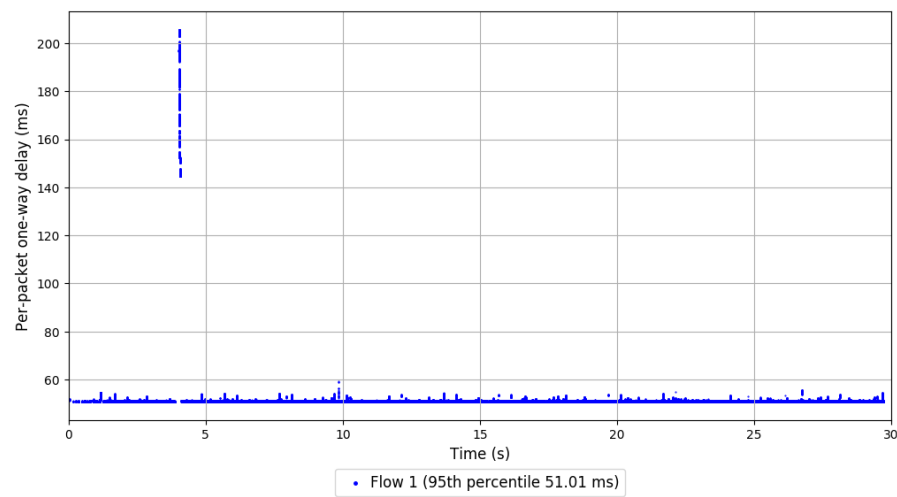
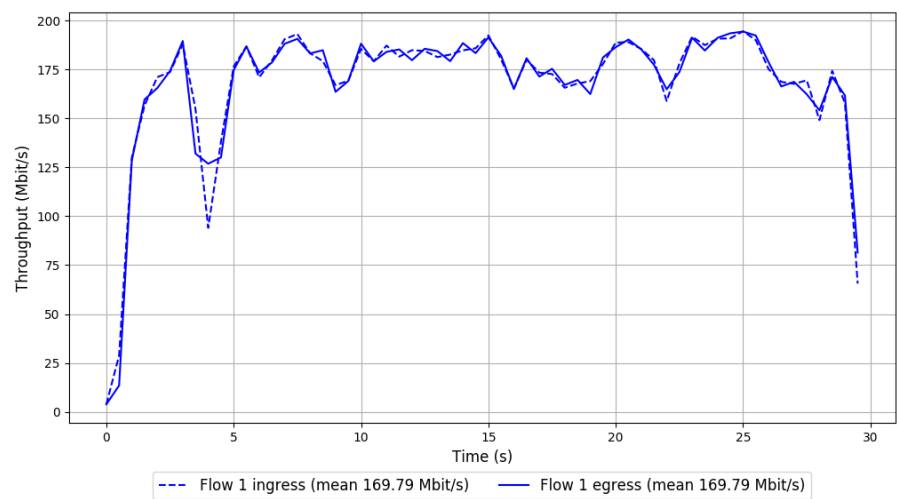
-- Flow 1:

Average throughput: 169.79 Mbit/s

95th percentile per-packet one-way delay: 51.009 ms

Loss rate: 0.00%

Run 7: Report of Indigo-delay — Data Link



Run 8: Statistics of Indigo-delay

Start at: 2017-09-21 17:25:57

End at: 2017-09-21 17:26:27

Below is generated by plot.py at 2017-09-21 19:37:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.76 Mbit/s

95th percentile per-packet one-way delay: 51.012 ms

Loss rate: 0.00%

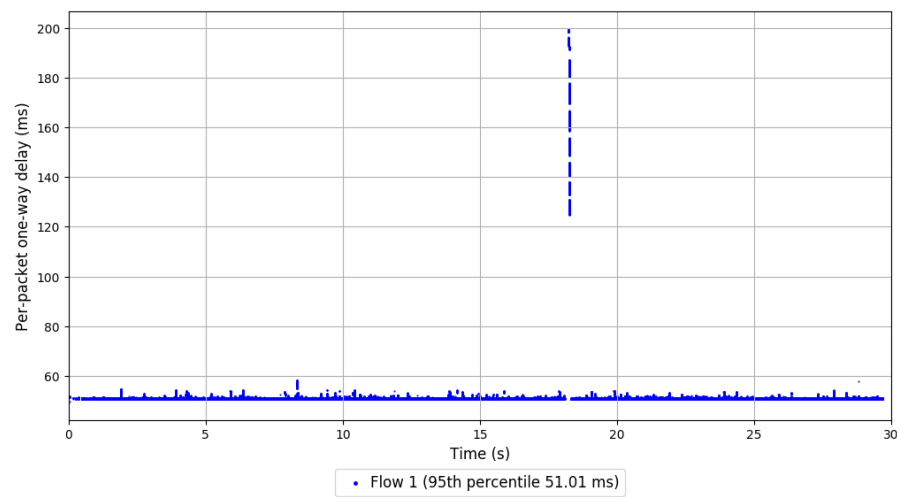
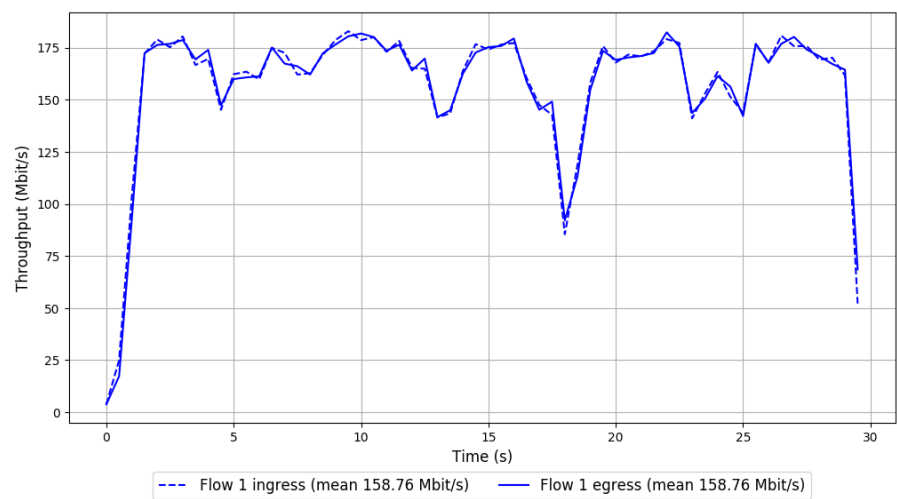
-- Flow 1:

Average throughput: 158.76 Mbit/s

95th percentile per-packet one-way delay: 51.012 ms

Loss rate: 0.00%

Run 8: Report of Indigo-delay — Data Link



Run 9: Statistics of Indigo-delay

Start at: 2017-09-21 17:36:19

End at: 2017-09-21 17:36:49

Below is generated by plot.py at 2017-09-21 19:37:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 156.20 Mbit/s

95th percentile per-packet one-way delay: 51.040 ms

Loss rate: 0.00%

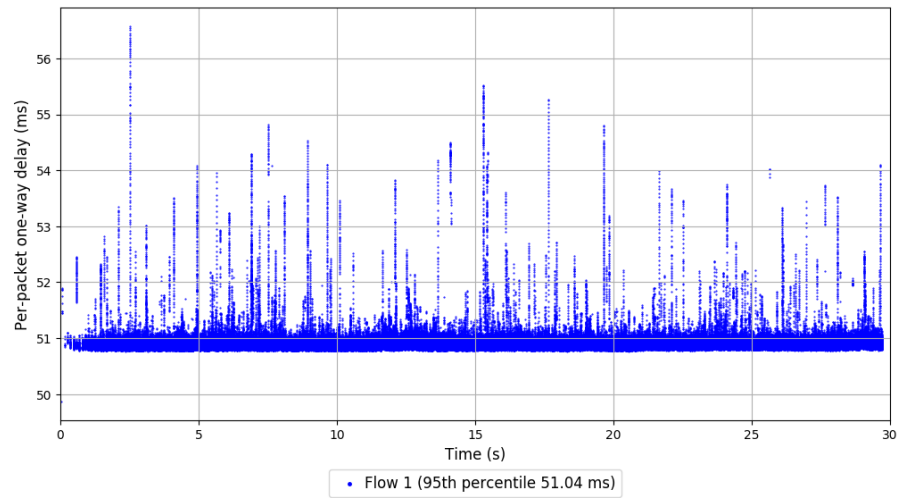
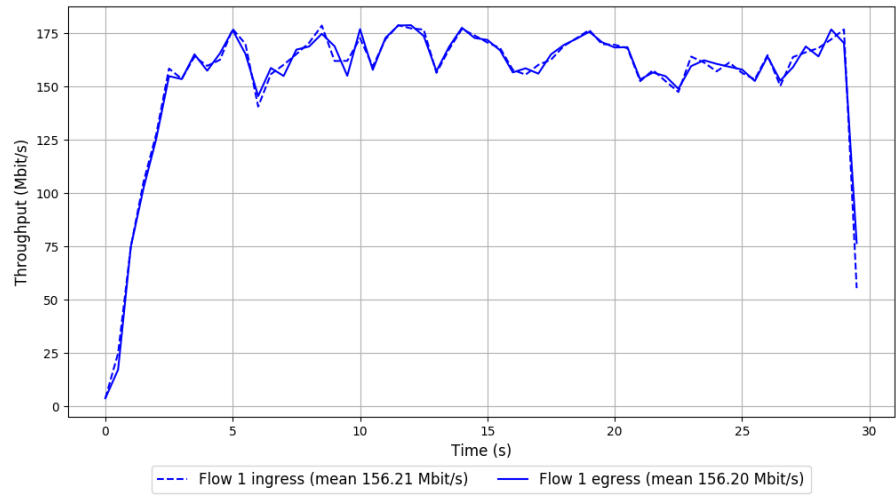
-- Flow 1:

Average throughput: 156.20 Mbit/s

95th percentile per-packet one-way delay: 51.040 ms

Loss rate: 0.00%

Run 9: Report of Indigo-delay — Data Link



Run 10: Statistics of Indigo-delay

Start at: 2017-09-21 17:46:26

End at: 2017-09-21 17:46:56

Below is generated by plot.py at 2017-09-21 19:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 162.43 Mbit/s

95th percentile per-packet one-way delay: 51.509 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 162.43 Mbit/s

95th percentile per-packet one-way delay: 51.509 ms

Loss rate: 0.00%

Run 10: Report of Indigo-delay — Data Link

