

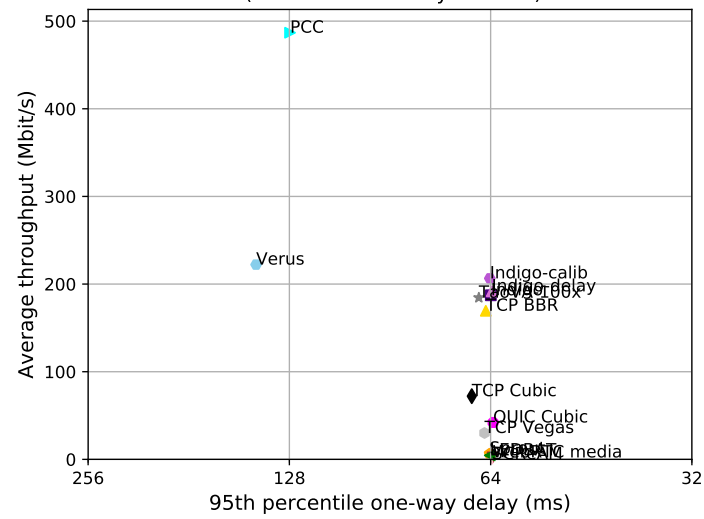
## Pantheon Report

Generated at 2017-09-22 00:04:26 (UTC).  
Data path: GCE Tokyo Ethernet (*remote*) → GCE Iowa Ethernet (*local*).  
Repeated the test of 14 congestion control schemes 10 times.  
Each test lasted for 30 seconds running 1 flow.  
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).  
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo\_fast**).

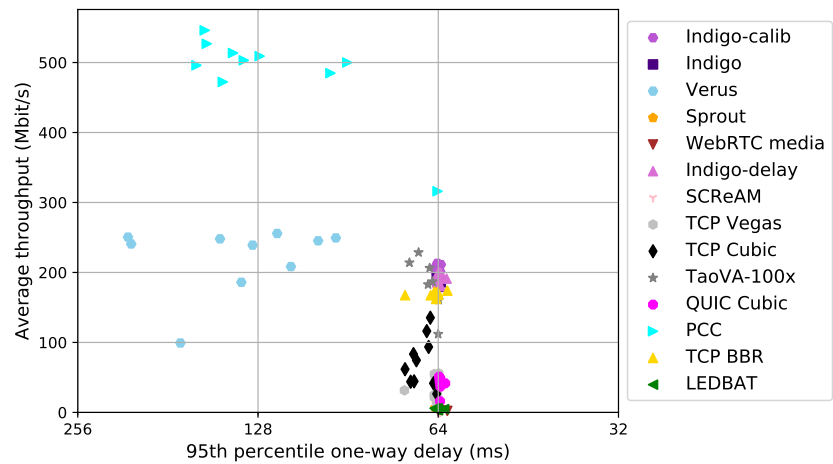
Git summary:

```
branch: indigos @ 46c7c812d4acb71eea4f5fb0b03b3657cea3062f
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 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 Tokyo Ethernet to GCE Iowa Ethernet, 10 runs of 30s each per scheme  
(mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	169.52	65.08	0.47
TCP Cubic	10	72.10	68.30	0.41
LEDBAT	10	4.52	64.20	1.03
PCC	10	486.78	127.69	1.94
QUIC Cubic	10	42.10	63.46	0.69
SCReAM	9	0.22	63.72	0.38
WebRTC media	10	2.22	63.57	0.47
Sprout	10	6.46	64.27	0.87
TaoVA-100x	7	184.46	66.65	0.42
TCP Vegas	10	30.09	65.36	0.34
Verus	10	222.21	143.54	2.53
Indigo	9	187.22	63.96	0.42
Indigo-calib	10	206.51	64.18	0.44
Indigo-delay	10	191.69	63.77	0.45

Run 1: Statistics of TCP BBR

Start at: 2017-09-21 19:44:01

End at: 2017-09-21 19:44:31

# Below is generated by plot.py at 2017-09-21 23:19:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 171.68 Mbit/s

95th percentile per-packet one-way delay: 64.290 ms

Loss rate: 0.45%

-- Flow 1:

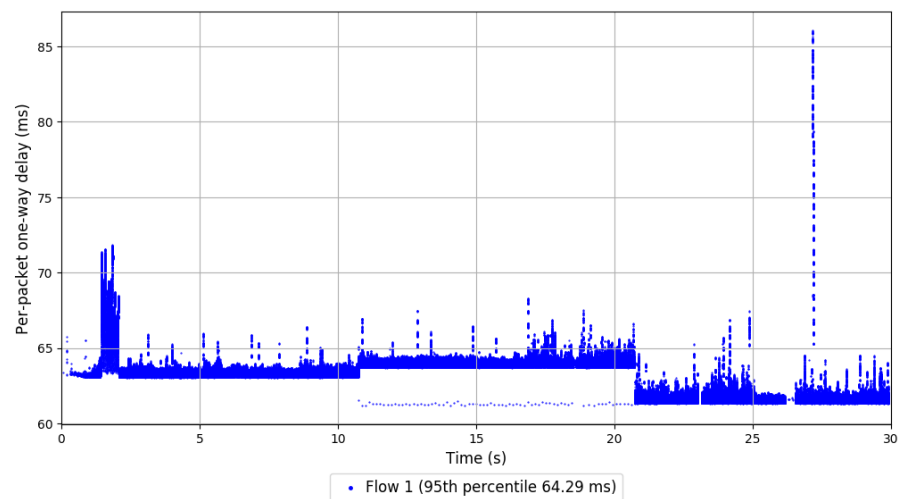
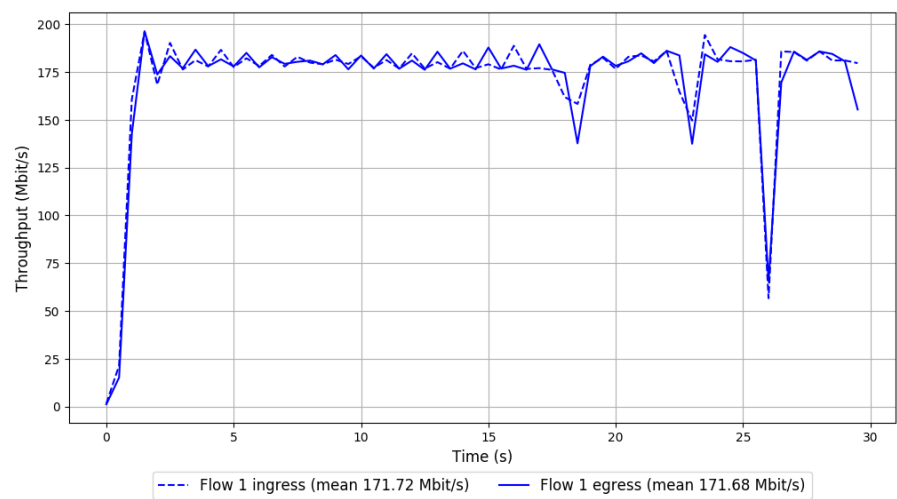
Average throughput: 171.68 Mbit/s

95th percentile per-packet one-way delay: 64.290 ms

Loss rate: 0.45%



Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-09-21 19:54:30

End at: 2017-09-21 19:55:00

# Below is generated by plot.py at 2017-09-21 23:19:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 174.05 Mbit/s

95th percentile per-packet one-way delay: 61.793 ms

Loss rate: 0.44%

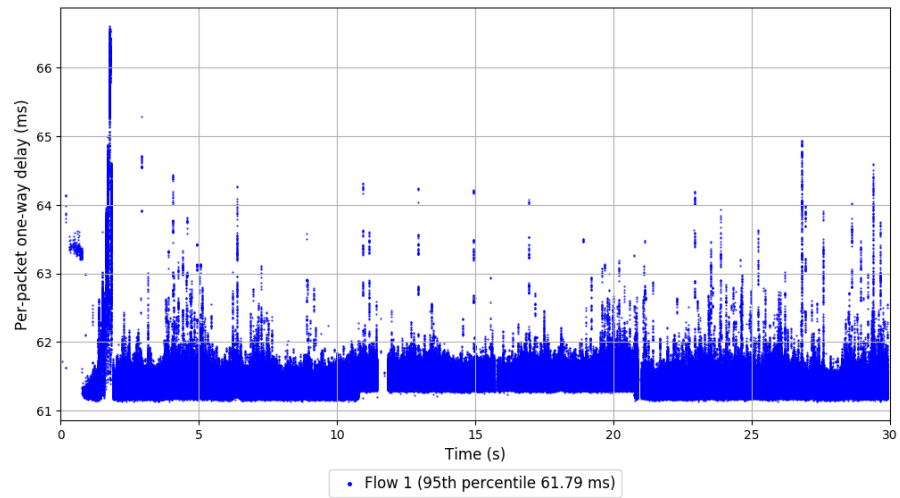
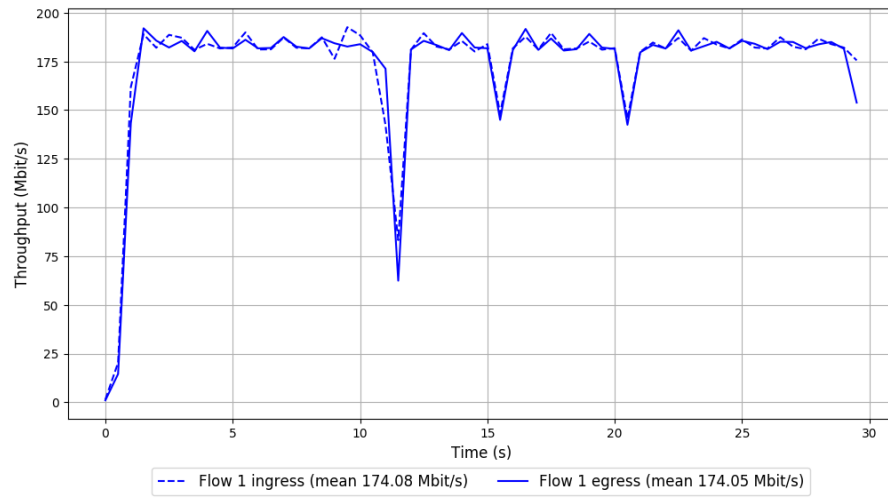
-- Flow 1:

Average throughput: 174.05 Mbit/s

95th percentile per-packet one-way delay: 61.793 ms

Loss rate: 0.44%

## Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-09-21 20:05:06

End at: 2017-09-21 20:05:36

# Below is generated by plot.py at 2017-09-21 23:19:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 169.66 Mbit/s

95th percentile per-packet one-way delay: 64.076 ms

Loss rate: 0.48%

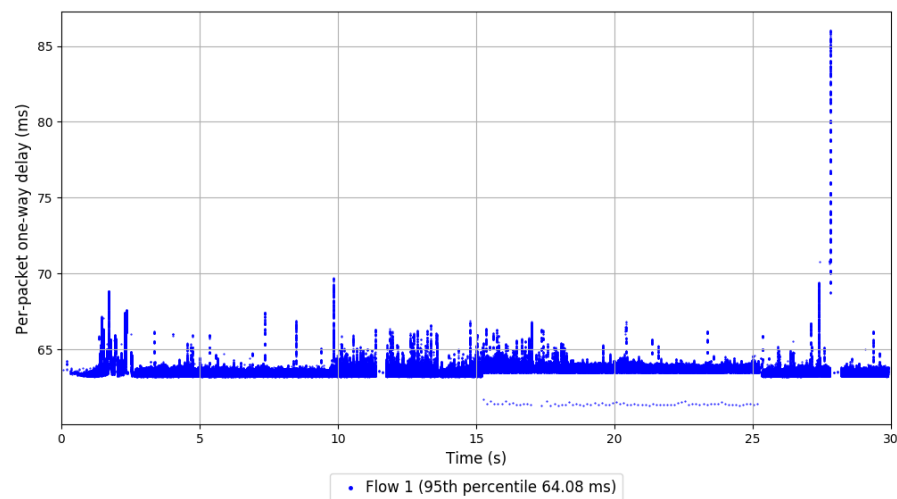
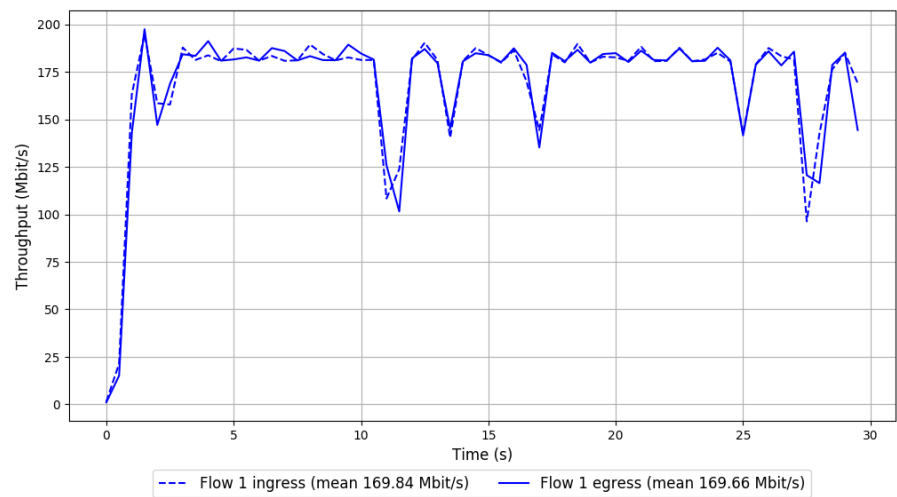
-- Flow 1:

Average throughput: 169.66 Mbit/s

95th percentile per-packet one-way delay: 64.076 ms

Loss rate: 0.48%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-09-21 20:15:55

End at: 2017-09-21 20:16:25

# Below is generated by plot.py at 2017-09-21 23:19:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 167.47 Mbit/s

95th percentile per-packet one-way delay: 72.715 ms

Loss rate: 0.46%

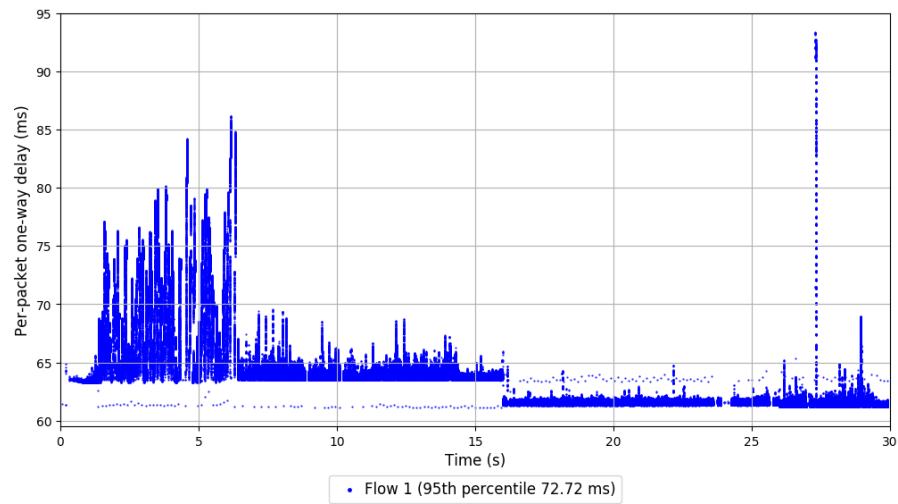
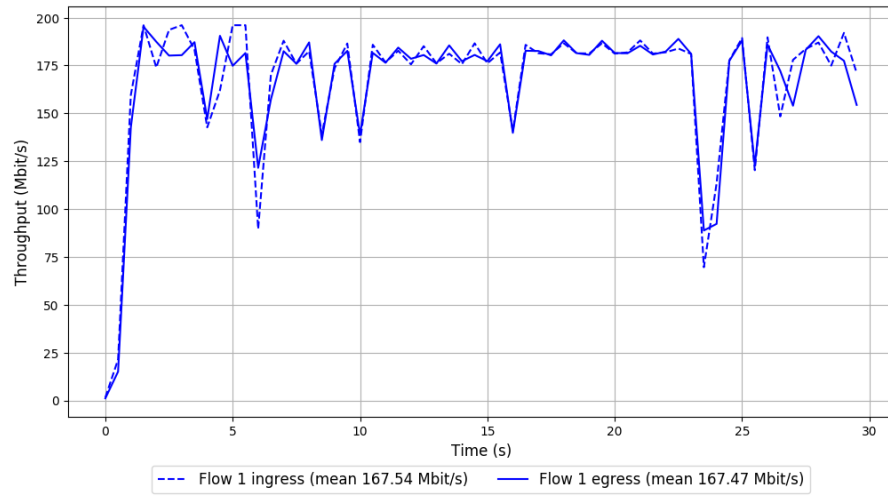
-- Flow 1:

Average throughput: 167.47 Mbit/s

95th percentile per-packet one-way delay: 72.715 ms

Loss rate: 0.46%

#### Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-09-21 20:26:35

End at: 2017-09-21 20:27:05

# Below is generated by plot.py at 2017-09-21 23:19:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 172.25 Mbit/s

95th percentile per-packet one-way delay: 64.152 ms

Loss rate: 0.50%

-- Flow 1:

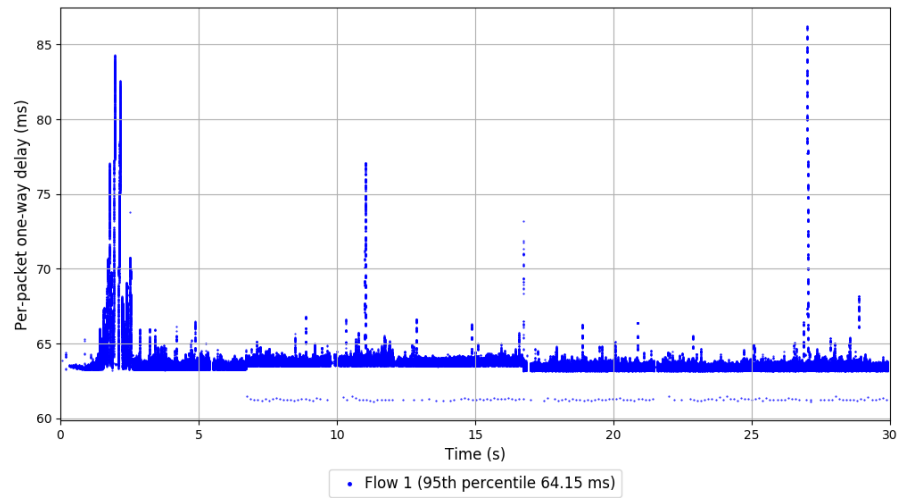
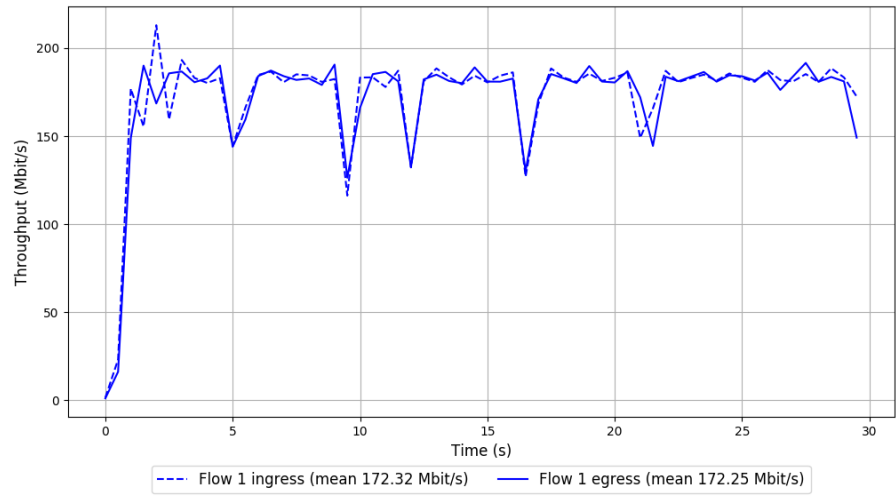
Average throughput: 172.25 Mbit/s

95th percentile per-packet one-way delay: 64.152 ms

Loss rate: 0.50%



### Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-09-21 20:37:10

End at: 2017-09-21 20:37:40

# Below is generated by plot.py at 2017-09-21 23:19:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 169.92 Mbit/s

95th percentile per-packet one-way delay: 64.300 ms

Loss rate: 0.49%

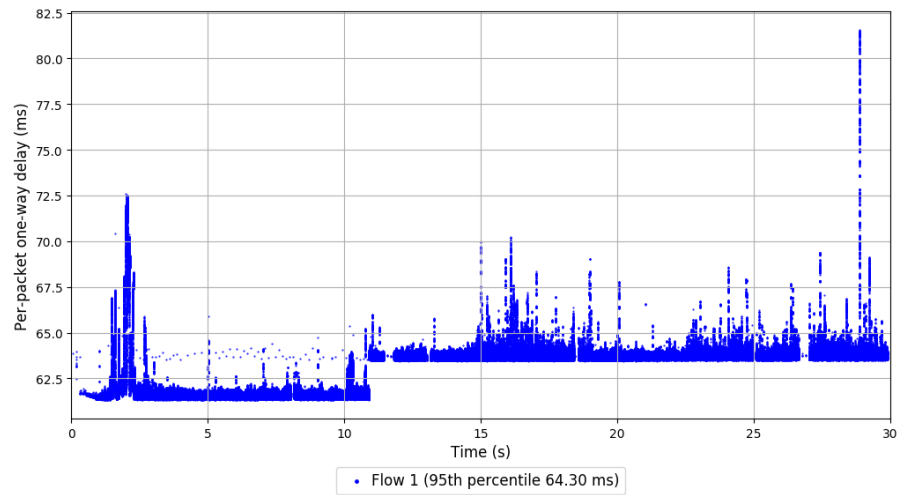
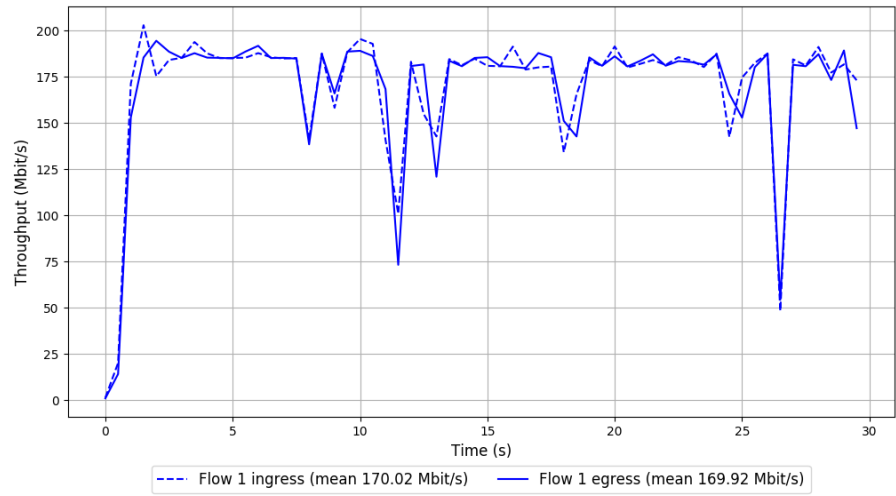
-- Flow 1:

Average throughput: 169.92 Mbit/s

95th percentile per-packet one-way delay: 64.300 ms

Loss rate: 0.49%

## Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-09-21 20:48:08

End at: 2017-09-21 20:48:38

# Below is generated by plot.py at 2017-09-21 23:19:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 162.18 Mbit/s

95th percentile per-packet one-way delay: 64.533 ms

Loss rate: 0.50%

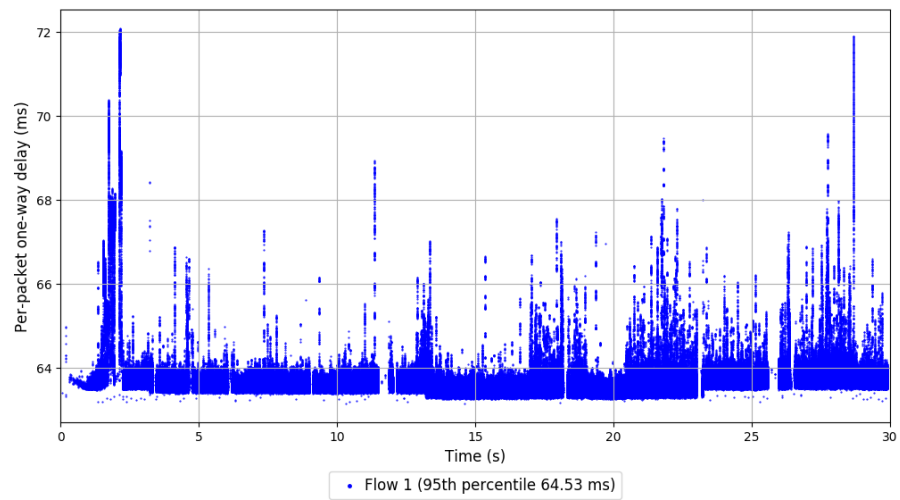
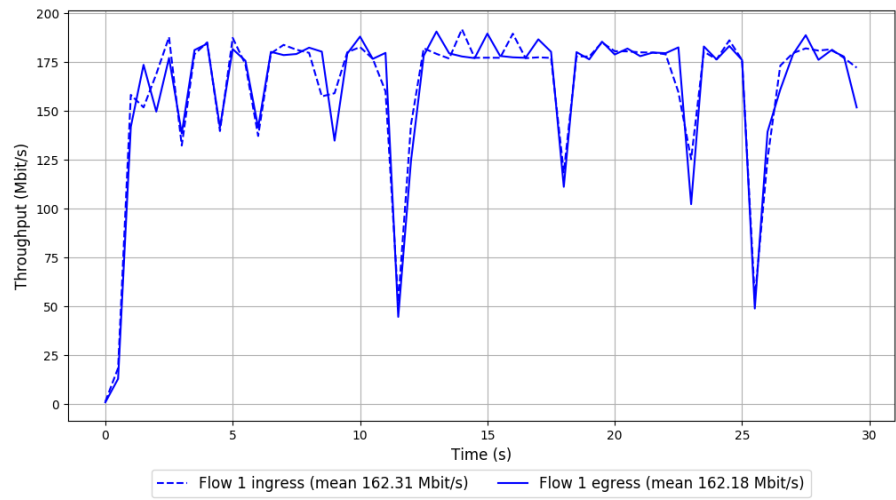
-- Flow 1:

Average throughput: 162.18 Mbit/s

95th percentile per-packet one-way delay: 64.533 ms

Loss rate: 0.50%

### Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-09-21 20:58:45

End at: 2017-09-21 20:59:15

# Below is generated by plot.py at 2017-09-21 23:19:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 167.38 Mbit/s

95th percentile per-packet one-way delay: 65.888 ms

Loss rate: 0.45%

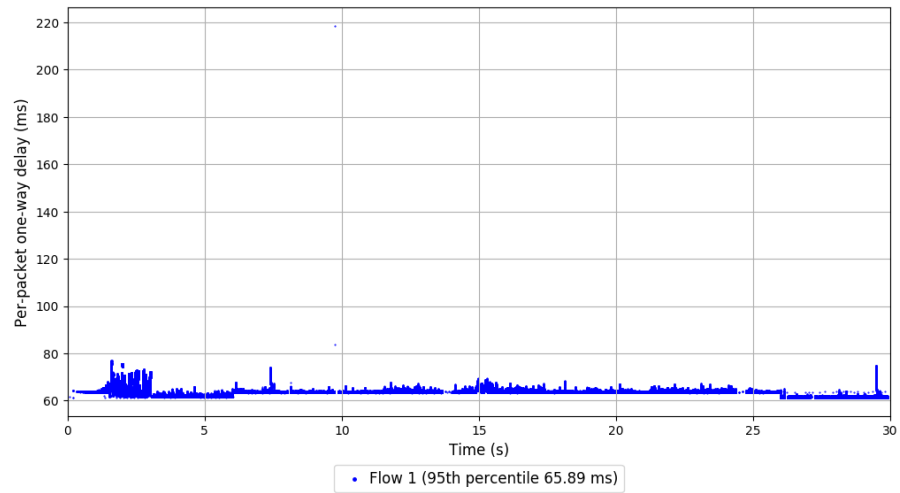
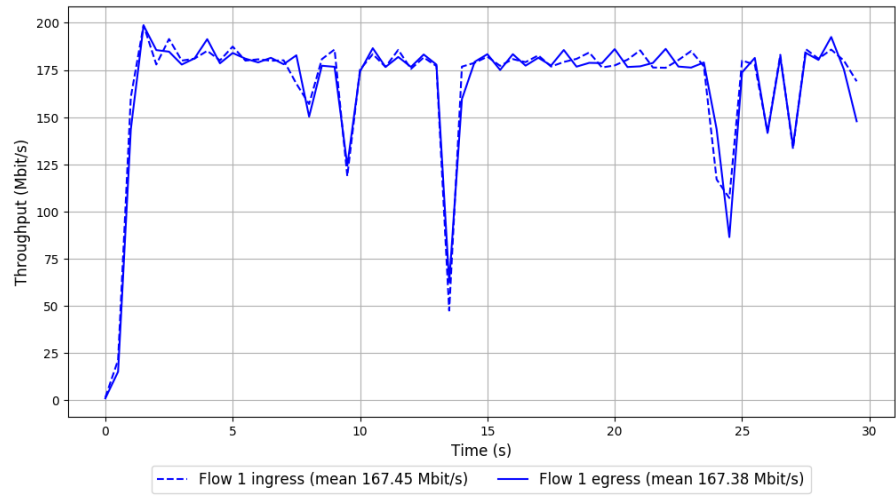
-- Flow 1:

Average throughput: 167.38 Mbit/s

95th percentile per-packet one-way delay: 65.888 ms

Loss rate: 0.45%

## Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

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

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

# Below is generated by plot.py at 2017-09-21 23:23:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 172.71 Mbit/s

95th percentile per-packet one-way delay: 64.941 ms

Loss rate: 0.44%

-- Flow 1:

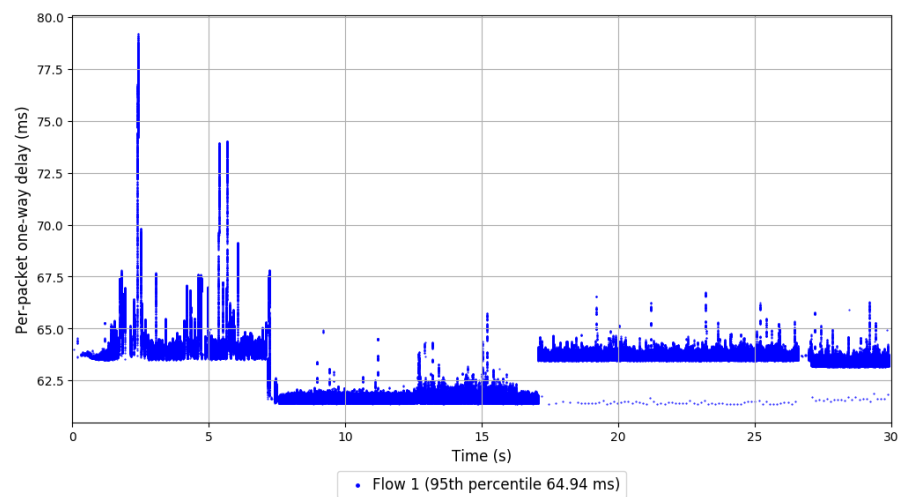
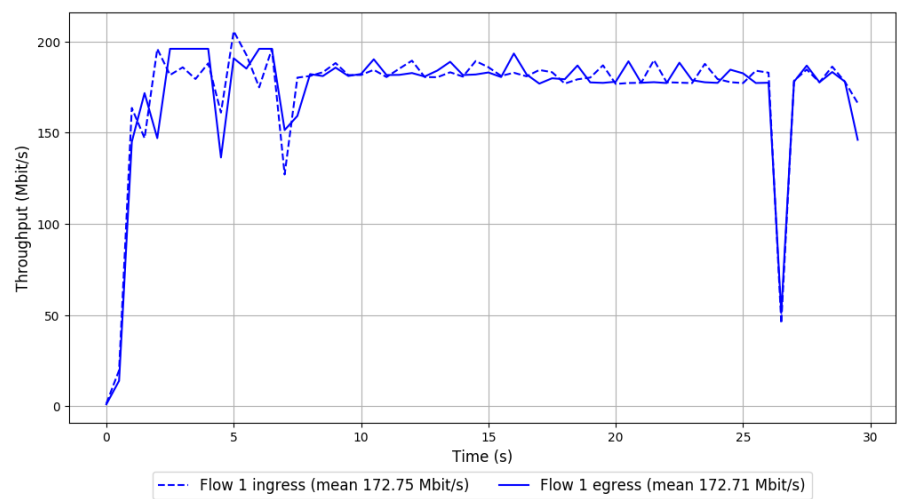
Average throughput: 172.71 Mbit/s

95th percentile per-packet one-way delay: 64.941 ms

Loss rate: 0.44%



Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

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

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

# Below is generated by plot.py at 2017-09-21 23:23:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 167.88 Mbit/s

95th percentile per-packet one-way delay: 64.071 ms

Loss rate: 0.46%

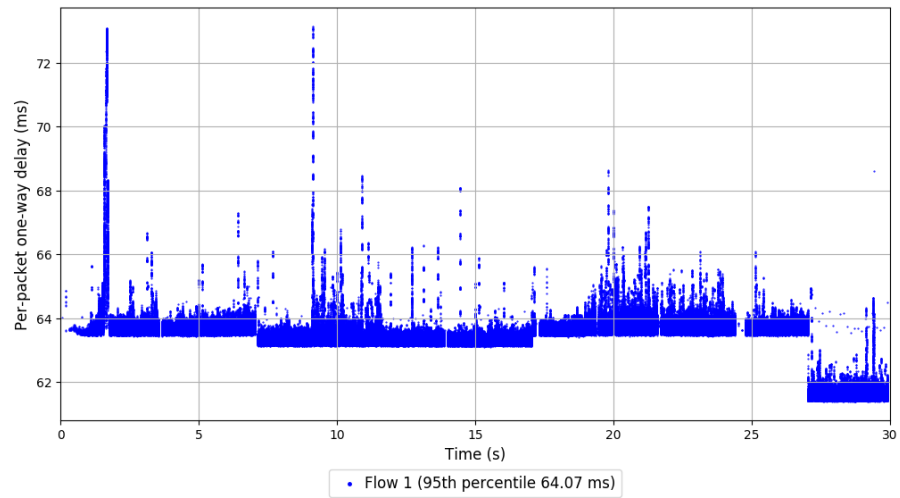
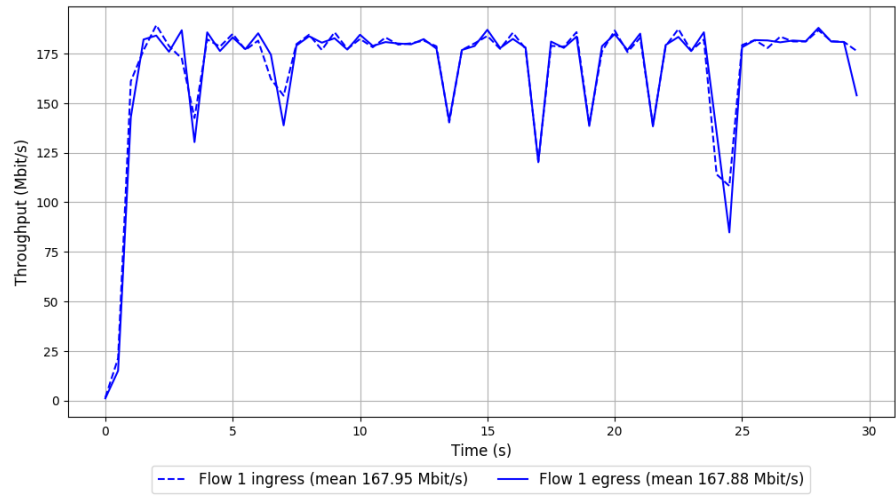
-- Flow 1:

Average throughput: 167.88 Mbit/s

95th percentile per-packet one-way delay: 64.071 ms

Loss rate: 0.46%

# Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-09-21 19:48:12

End at: 2017-09-21 19:48:42

# Below is generated by plot.py at 2017-09-21 23:23:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 116.19 Mbit/s

95th percentile per-packet one-way delay: 66.889 ms

Loss rate: 0.37%

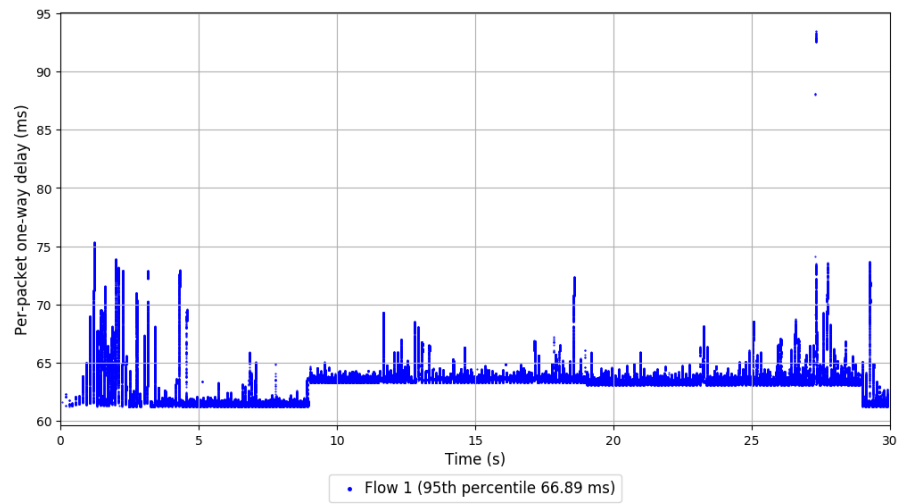
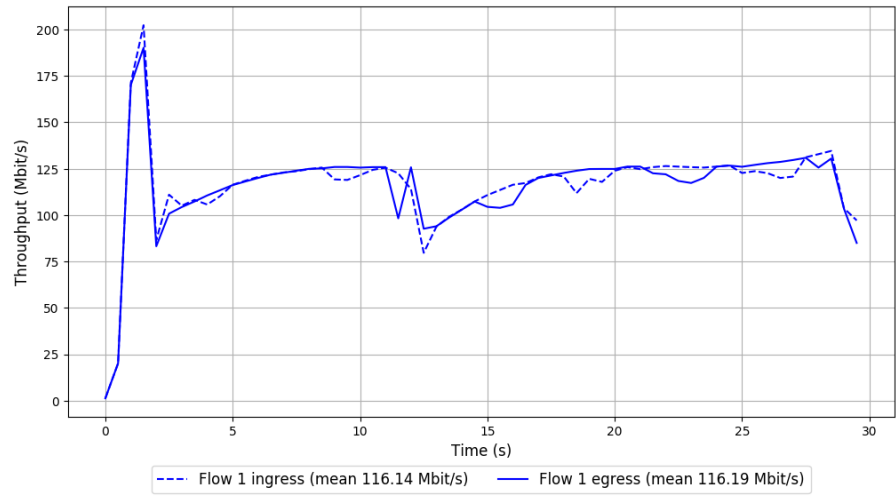
-- Flow 1:

Average throughput: 116.19 Mbit/s

95th percentile per-packet one-way delay: 66.889 ms

Loss rate: 0.37%

## Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-09-21 19:58:42

End at: 2017-09-21 19:59:12

# Below is generated by plot.py at 2017-09-21 23:23:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 43.86 Mbit/s

95th percentile per-packet one-way delay: 71.172 ms

Loss rate: 0.28%

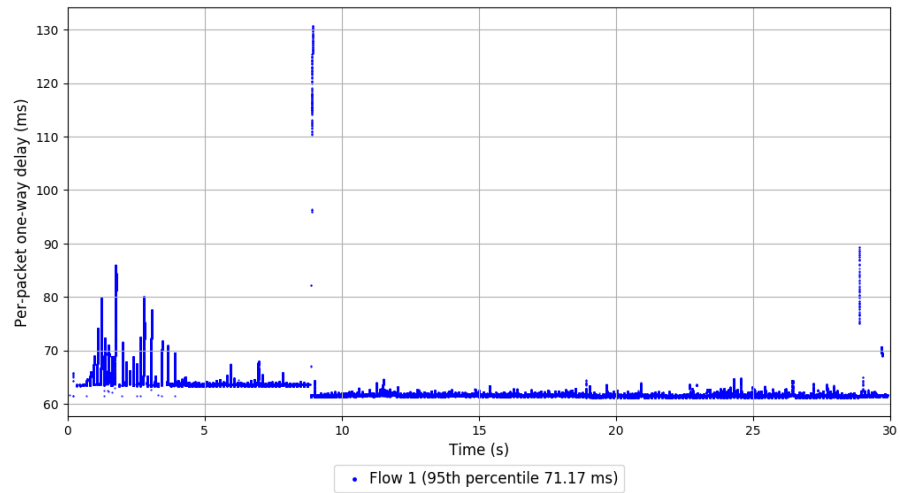
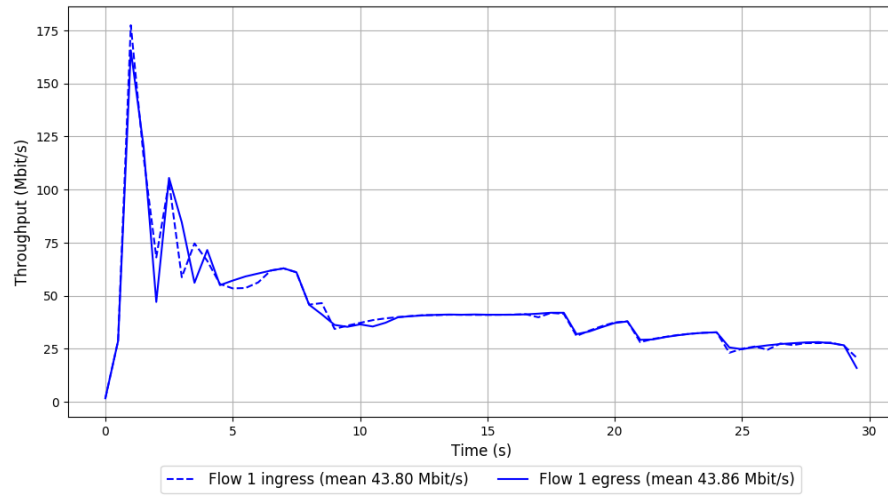
-- Flow 1:

Average throughput: 43.86 Mbit/s

95th percentile per-packet one-way delay: 71.172 ms

Loss rate: 0.28%

## Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

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

End at: 2017-09-21 20:09:50

# Below is generated by plot.py at 2017-09-21 23:23:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 44.41 Mbit/s

95th percentile per-packet one-way delay: 70.231 ms

Loss rate: 0.37%

-- Flow 1:

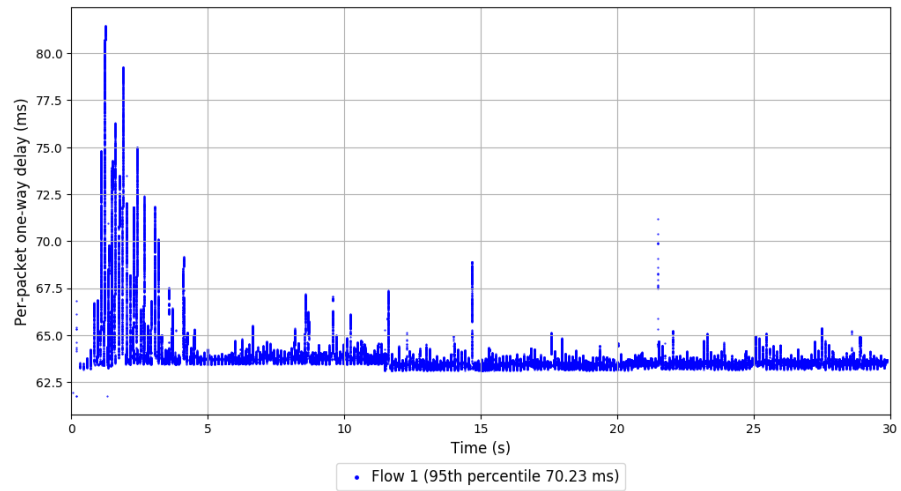
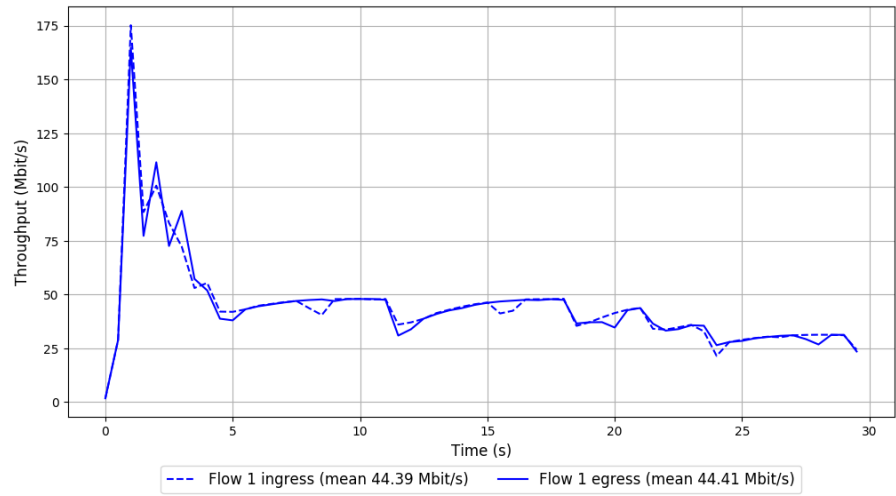
Average throughput: 44.41 Mbit/s

95th percentile per-packet one-way delay: 70.231 ms

Loss rate: 0.37%



### Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-09-21 20:20:06

End at: 2017-09-21 20:20:36

# Below is generated by plot.py at 2017-09-21 23:23:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.30 Mbit/s

95th percentile per-packet one-way delay: 70.393 ms

Loss rate: 0.31%

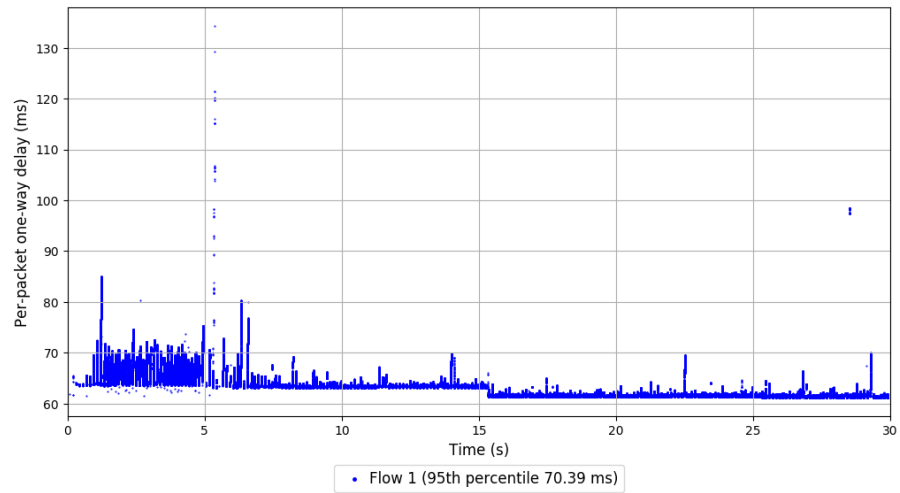
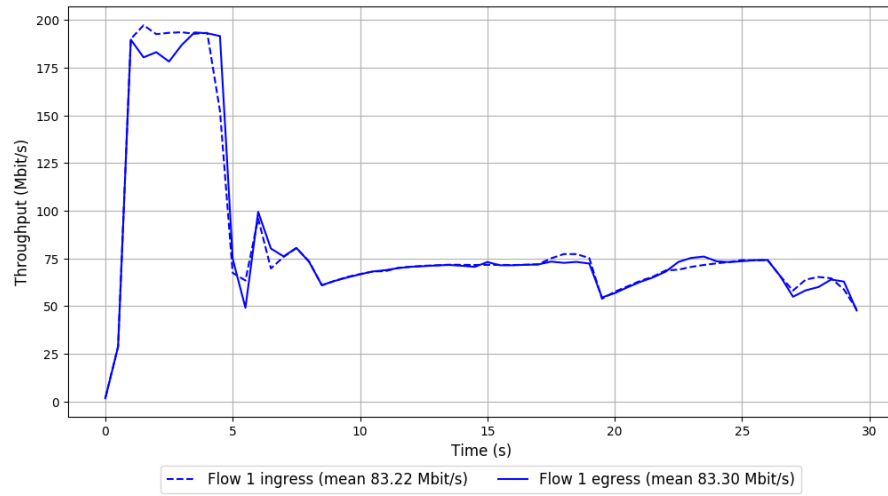
-- Flow 1:

Average throughput: 83.30 Mbit/s

95th percentile per-packet one-way delay: 70.393 ms

Loss rate: 0.31%

#### Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-09-21 20:30:47

End at: 2017-09-21 20:31:17

# Below is generated by plot.py at 2017-09-21 23:23:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 61.74 Mbit/s

95th percentile per-packet one-way delay: 72.719 ms

Loss rate: 0.44%

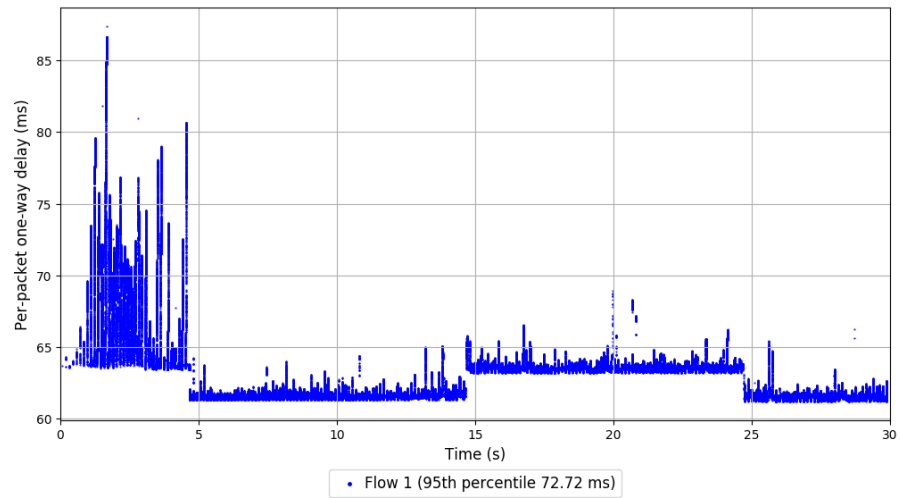
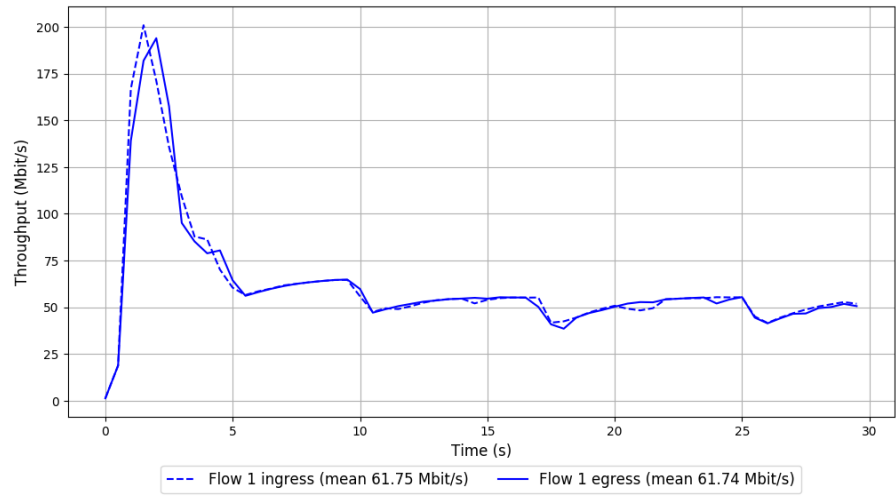
-- Flow 1:

Average throughput: 61.74 Mbit/s

95th percentile per-packet one-way delay: 72.719 ms

Loss rate: 0.44%

### Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-09-21 20:41:25

End at: 2017-09-21 20:41:55

# Below is generated by plot.py at 2017-09-21 23:23:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 135.33 Mbit/s

95th percentile per-packet one-way delay: 65.973 ms

Loss rate: 0.34%

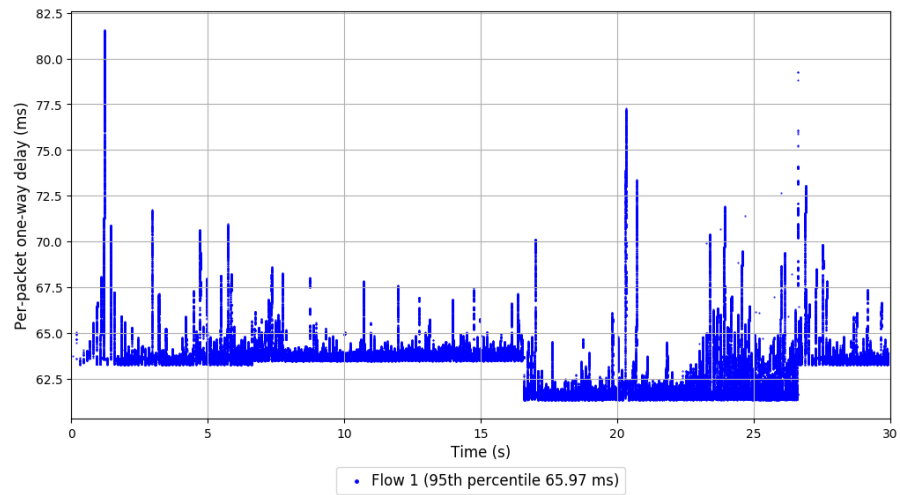
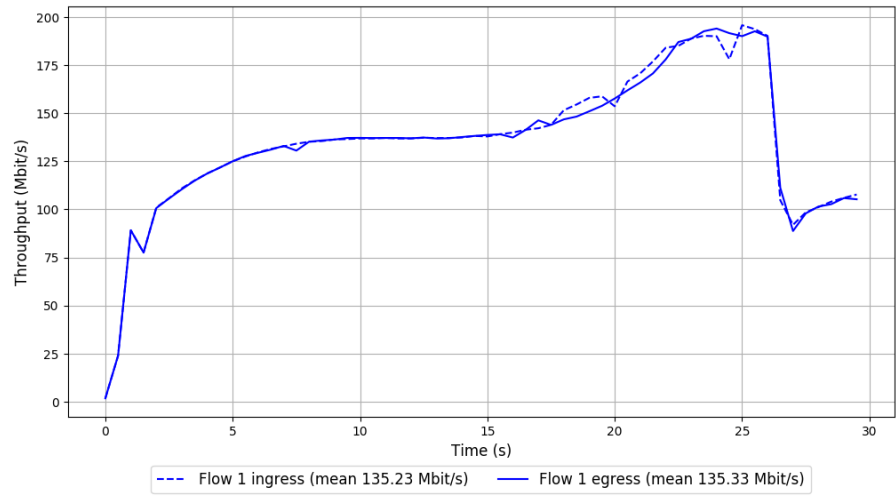
-- Flow 1:

Average throughput: 135.33 Mbit/s

95th percentile per-packet one-way delay: 65.973 ms

Loss rate: 0.34%

## Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-09-21 20:52:20

End at: 2017-09-21 20:52:50

# Below is generated by plot.py at 2017-09-21 23:23:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 26.52 Mbit/s

95th percentile per-packet one-way delay: 64.391 ms

Loss rate: 0.96%

-- Flow 1:

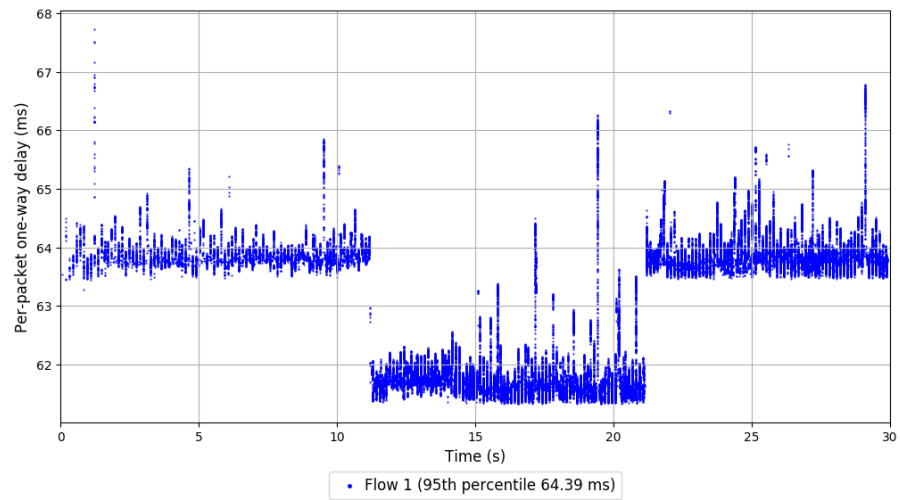
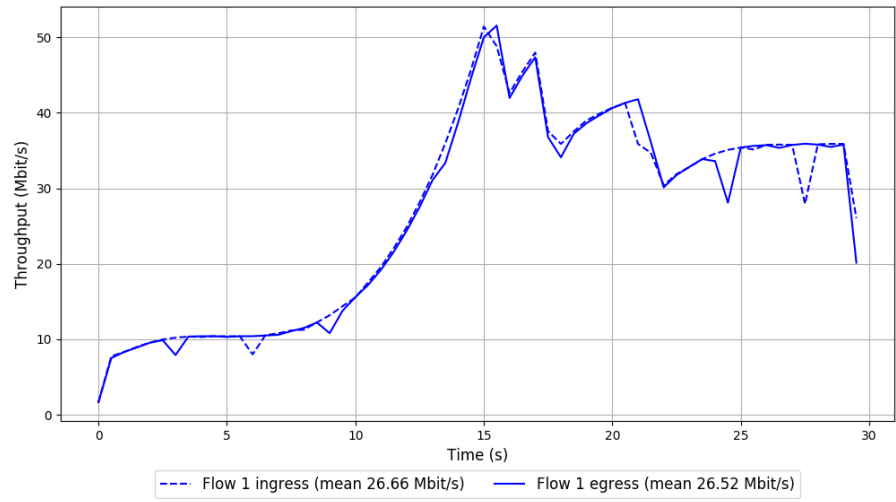
Average throughput: 26.52 Mbit/s

95th percentile per-packet one-way delay: 64.391 ms

Loss rate: 0.96%



### Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-09-21 21:02:57

End at: 2017-09-21 21:03:27

# Below is generated by plot.py at 2017-09-21 23:23:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.53 Mbit/s

95th percentile per-packet one-way delay: 66.413 ms

Loss rate: 0.38%

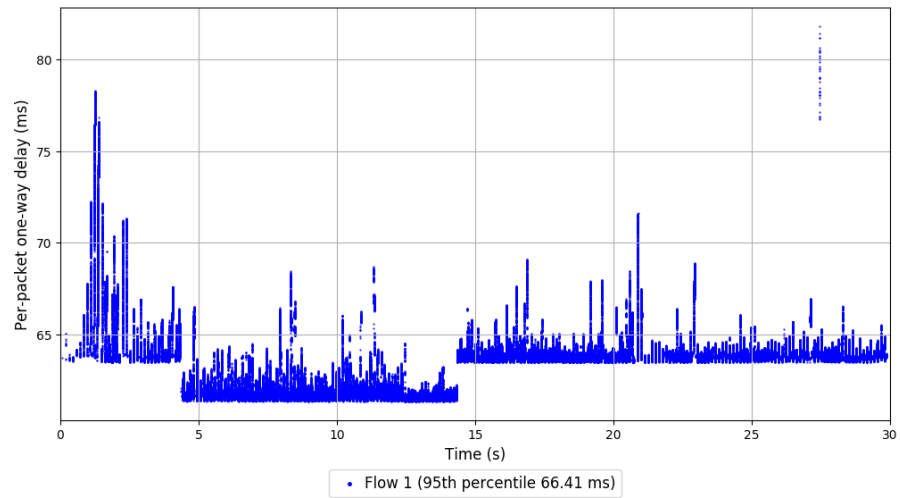
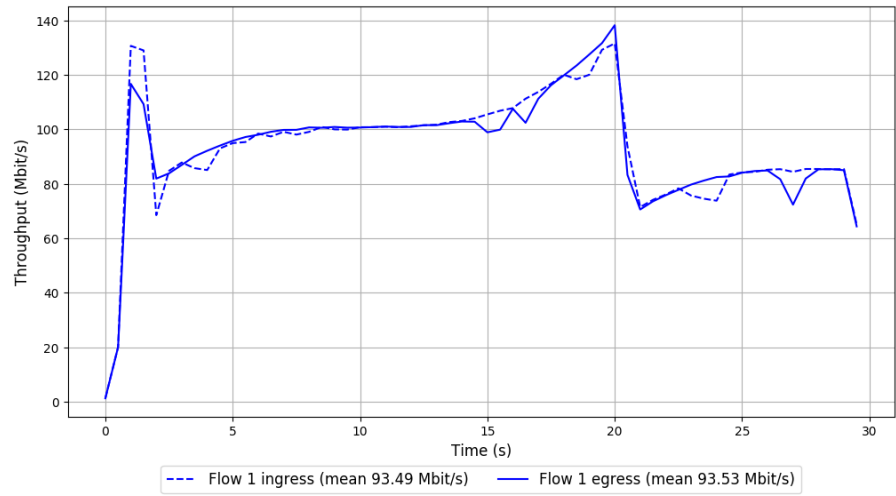
-- Flow 1:

Average throughput: 93.53 Mbit/s

95th percentile per-packet one-way delay: 66.413 ms

Loss rate: 0.38%

### Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-09-21 21:13:35

End at: 2017-09-21 21:14:05

# Below is generated by plot.py at 2017-09-21 23:23:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.51 Mbit/s

95th percentile per-packet one-way delay: 69.609 ms

Loss rate: 0.26%

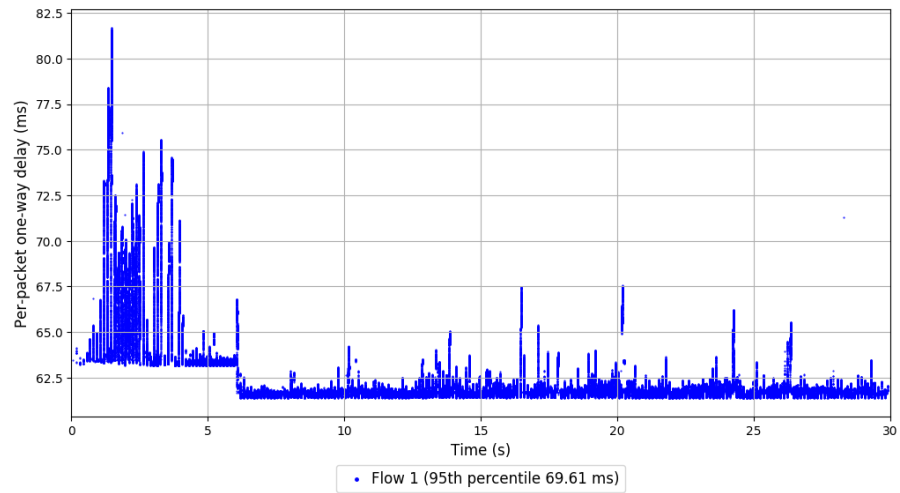
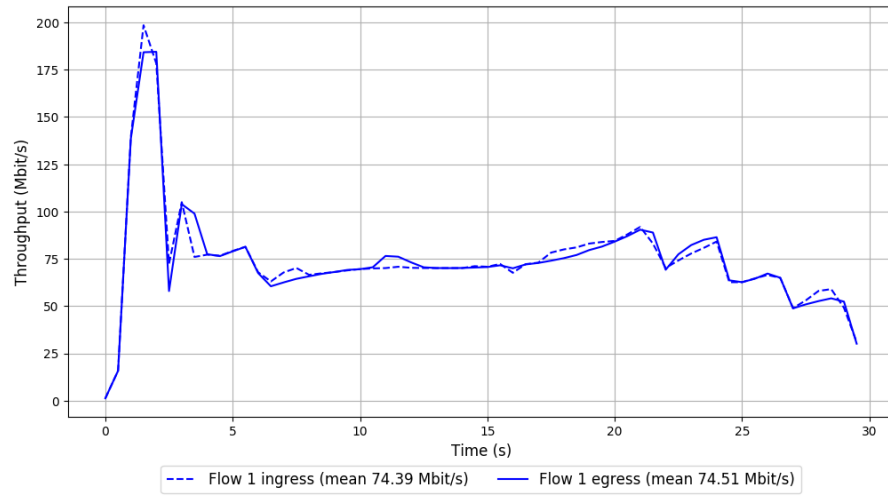
-- Flow 1:

Average throughput: 74.51 Mbit/s

95th percentile per-packet one-way delay: 69.609 ms

Loss rate: 0.26%

### Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

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

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

# Below is generated by plot.py at 2017-09-21 23:23:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 41.59 Mbit/s

95th percentile per-packet one-way delay: 65.174 ms

Loss rate: 0.43%

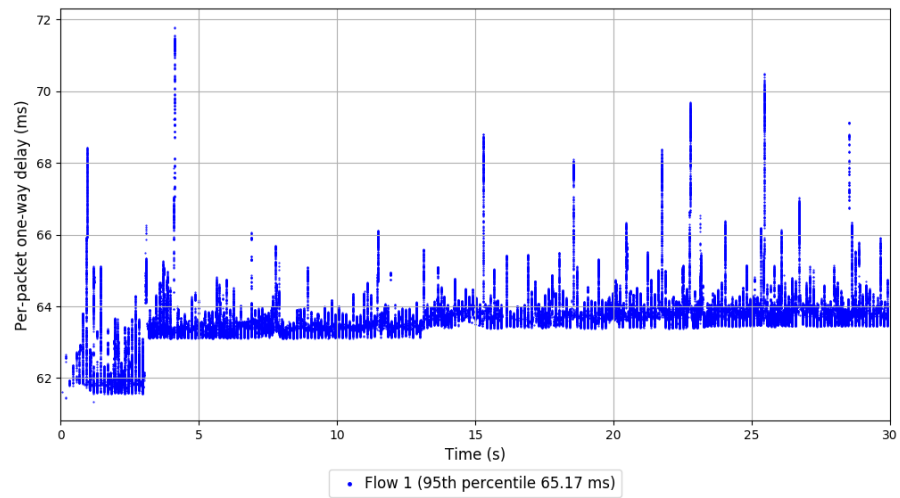
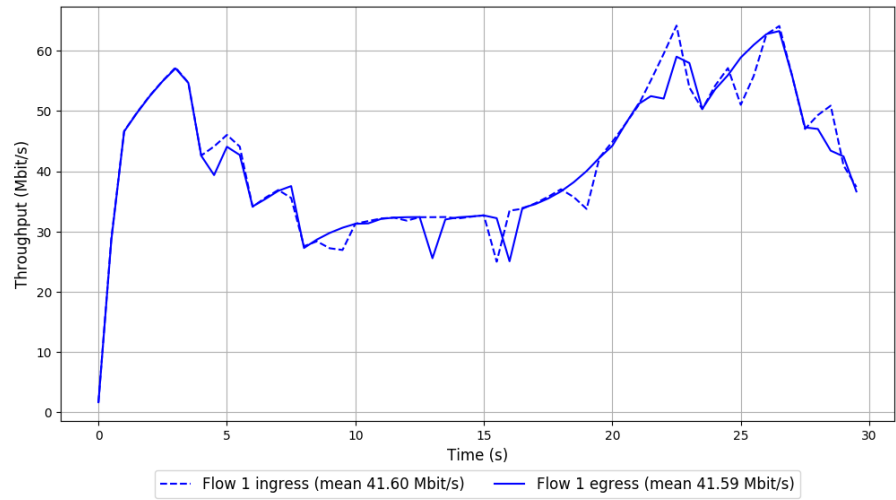
-- Flow 1:

Average throughput: 41.59 Mbit/s

95th percentile per-packet one-way delay: 65.174 ms

Loss rate: 0.43%

# Run 10: Report of TCP Cubic — Data Link



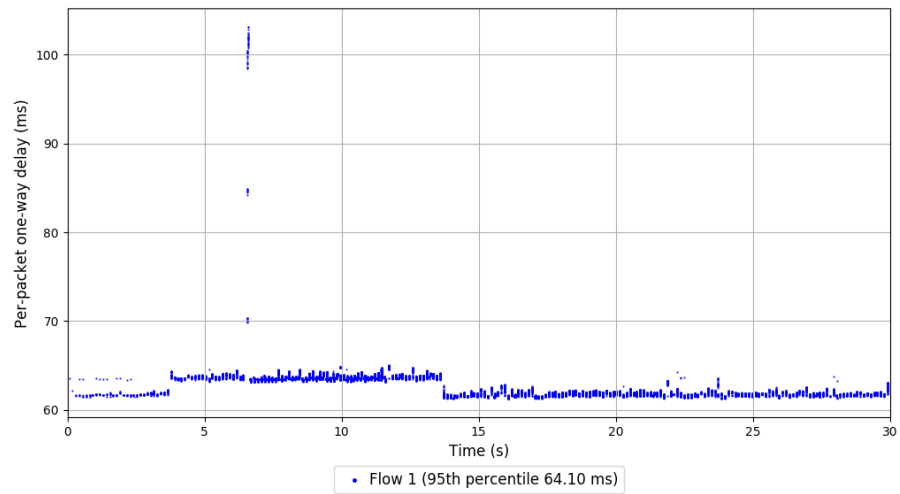
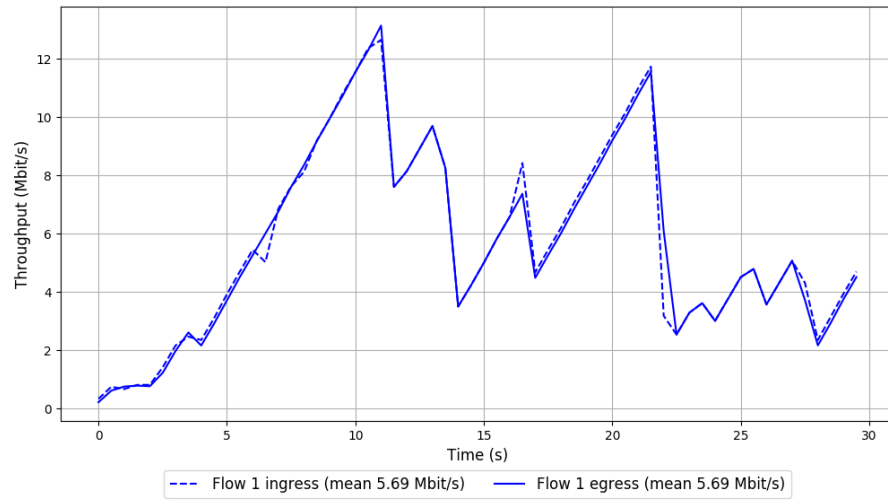
```
Run 1: Statistics of LEDBAT

Start at: 2017-09-21 19:44:48
End at: 2017-09-21 19:45:18

# Below is generated by plot.py at 2017-09-21 23:23:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.69 Mbit/s
95th percentile per-packet one-way delay: 64.098 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 5.69 Mbit/s
95th percentile per-packet one-way delay: 64.098 ms
Loss rate: 0.43%
```



### Run 1: Report of LEDBAT — Data Link

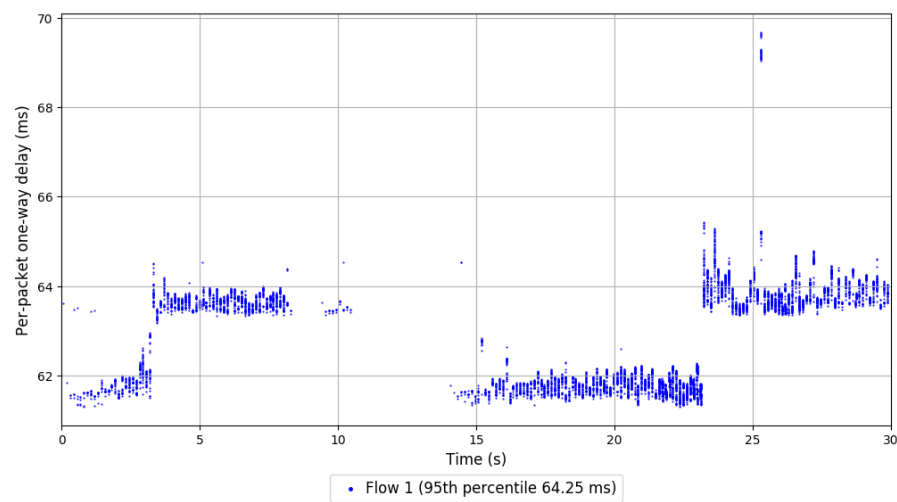
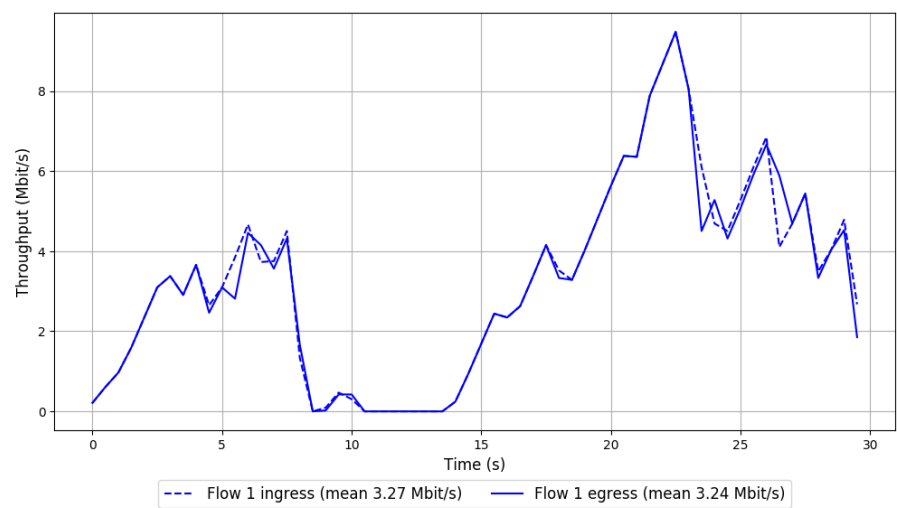


```
Run 2: Statistics of LEDBAT

Start at: 2017-09-21 19:55:18
End at: 2017-09-21 19:55:48

# Below is generated by plot.py at 2017-09-21 23:23:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.24 Mbit/s
95th percentile per-packet one-way delay: 64.247 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 3.24 Mbit/s
95th percentile per-packet one-way delay: 64.247 ms
Loss rate: 1.27%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-09-21 20:05:53

End at: 2017-09-21 20:06:23

# Below is generated by plot.py at 2017-09-21 23:23:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 3.65 Mbit/s

95th percentile per-packet one-way delay: 64.367 ms

Loss rate: 1.62%

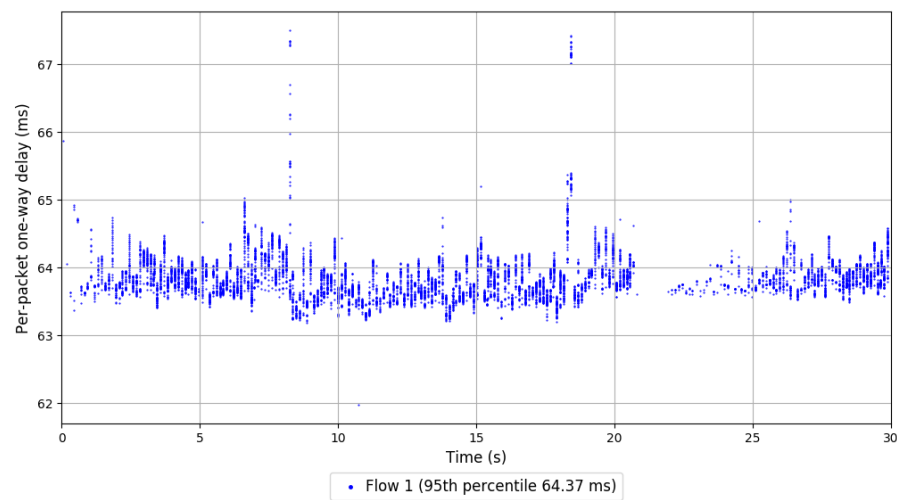
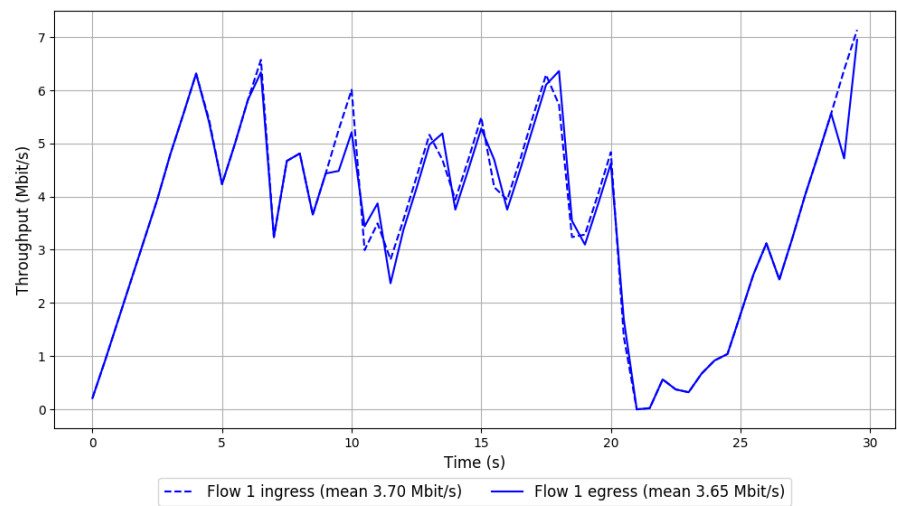
-- Flow 1:

Average throughput: 3.65 Mbit/s

95th percentile per-packet one-way delay: 64.367 ms

Loss rate: 1.62%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-09-21 20:16:42

End at: 2017-09-21 20:17:12

# Below is generated by plot.py at 2017-09-21 23:23:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.69 Mbit/s

95th percentile per-packet one-way delay: 62.586 ms

Loss rate: 0.70%

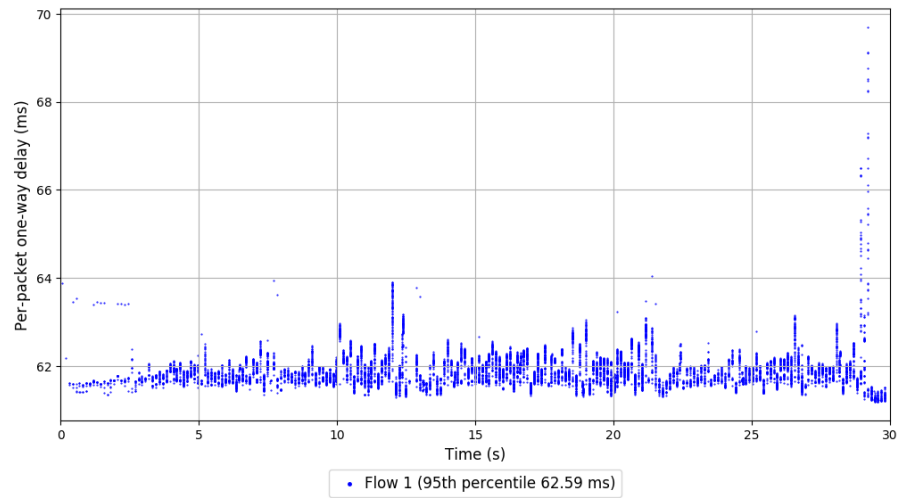
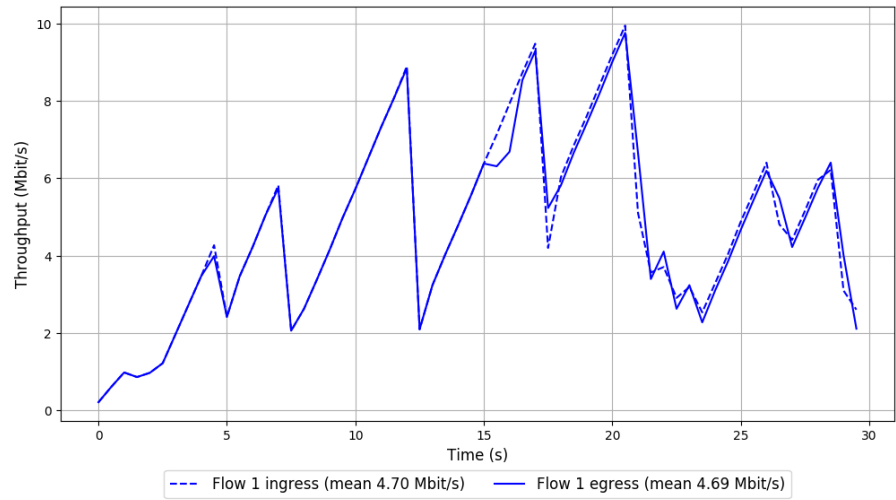
-- Flow 1:

Average throughput: 4.69 Mbit/s

95th percentile per-packet one-way delay: 62.586 ms

Loss rate: 0.70%

#### Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-09-21 20:27:23

End at: 2017-09-21 20:27:53

# Below is generated by plot.py at 2017-09-21 23:23:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.03 Mbit/s

95th percentile per-packet one-way delay: 64.438 ms

Loss rate: 0.81%

-- Flow 1:

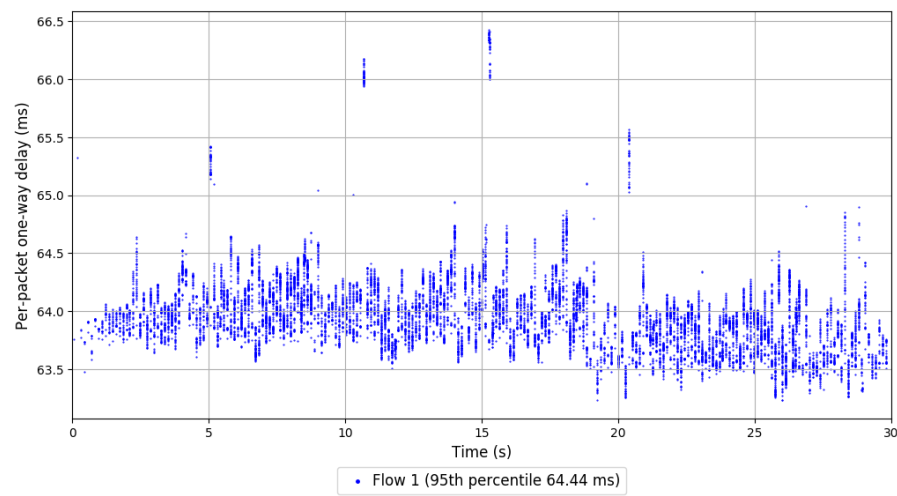
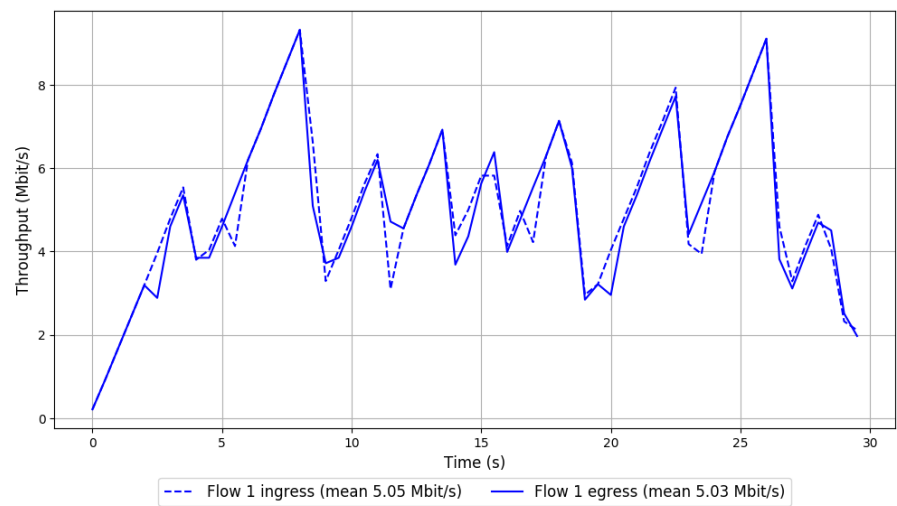
Average throughput: 5.03 Mbit/s

95th percentile per-packet one-way delay: 64.438 ms

Loss rate: 0.81%



Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-09-21 20:37:58

End at: 2017-09-21 20:38:28

# Below is generated by plot.py at 2017-09-21 23:23:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.86 Mbit/s

95th percentile per-packet one-way delay: 64.934 ms

Loss rate: 0.59%

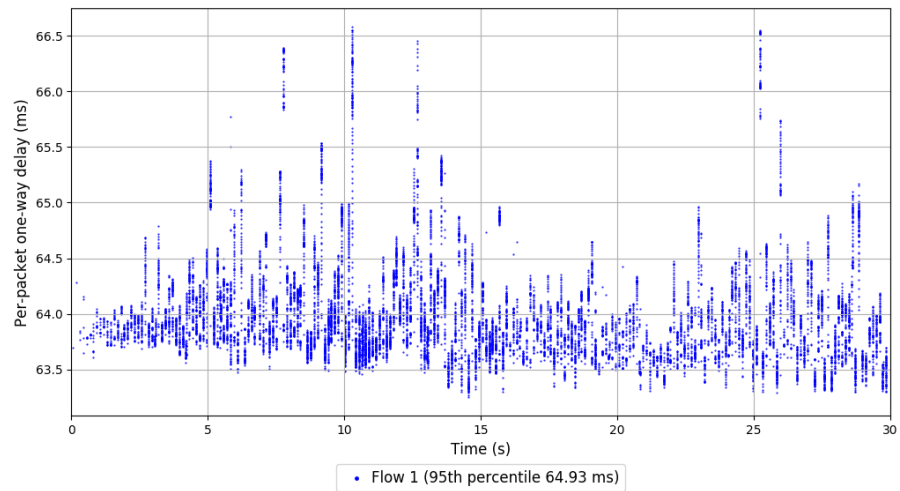
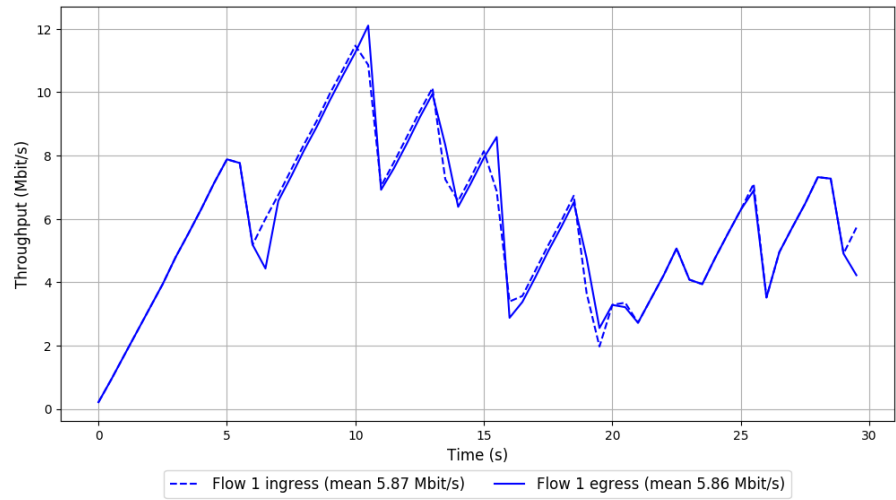
-- Flow 1:

Average throughput: 5.86 Mbit/s

95th percentile per-packet one-way delay: 64.934 ms

Loss rate: 0.59%

## Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-09-21 20:48:56

End at: 2017-09-21 20:49:26

# Below is generated by plot.py at 2017-09-21 23:23:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 3.20 Mbit/s

95th percentile per-packet one-way delay: 64.048 ms

Loss rate: 1.72%

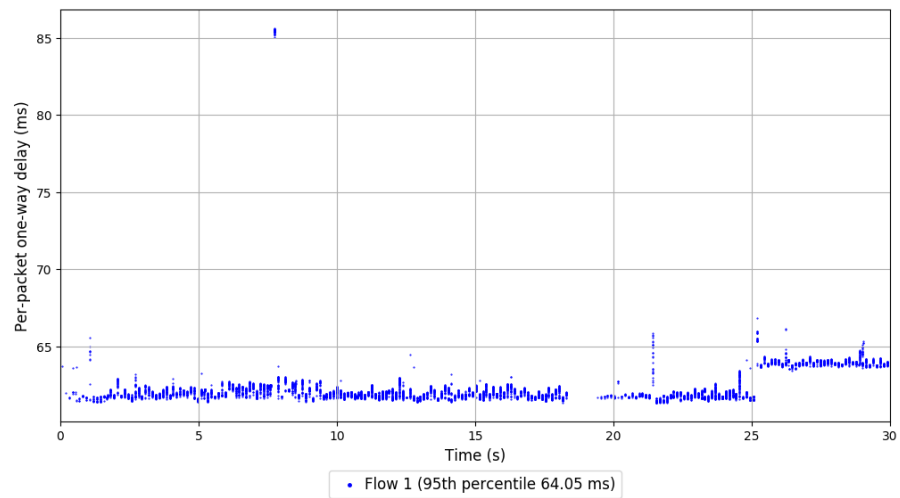
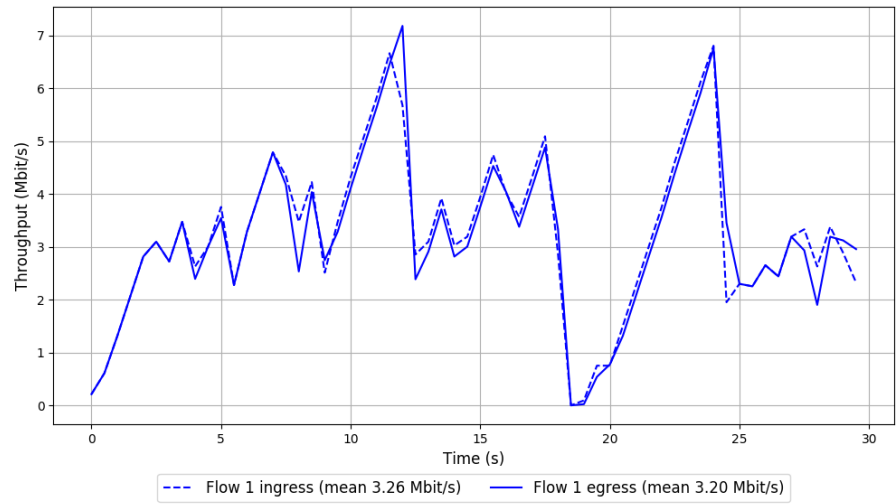
-- Flow 1:

Average throughput: 3.20 Mbit/s

95th percentile per-packet one-way delay: 64.048 ms

Loss rate: 1.72%

### Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-09-21 20:59:33

End at: 2017-09-21 21:00:03

# Below is generated by plot.py at 2017-09-21 23:23:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.46 Mbit/s

95th percentile per-packet one-way delay: 64.415 ms

Loss rate: 1.02%

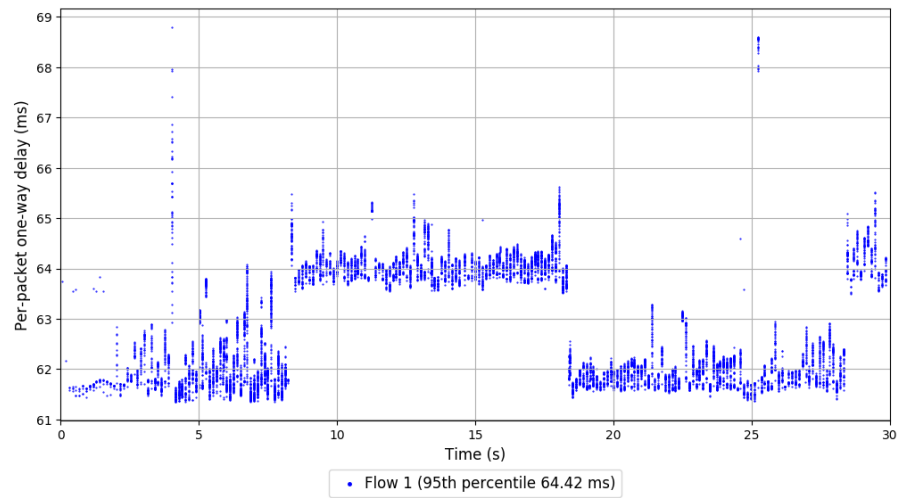
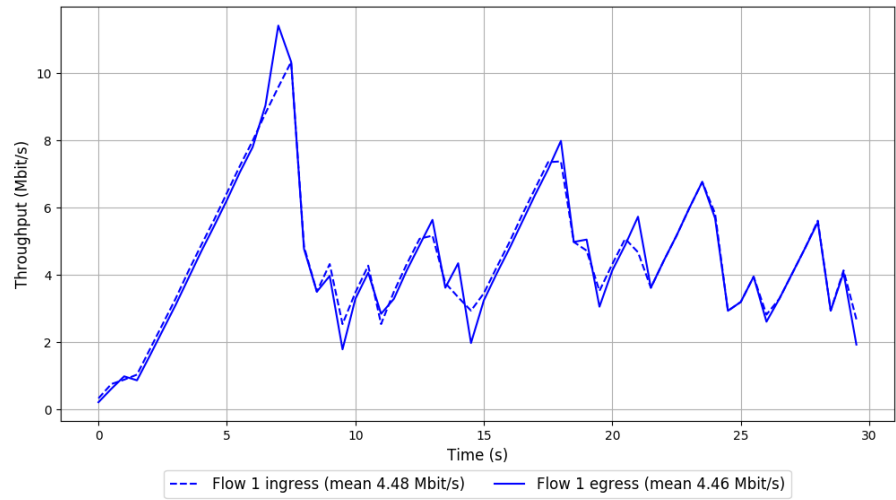
-- Flow 1:

Average throughput: 4.46 Mbit/s

95th percentile per-packet one-way delay: 64.415 ms

Loss rate: 1.02%

# Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

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

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

# Below is generated by plot.py at 2017-09-21 23:23:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.33 Mbit/s

95th percentile per-packet one-way delay: 64.336 ms

Loss rate: 1.04%

-- Flow 1:

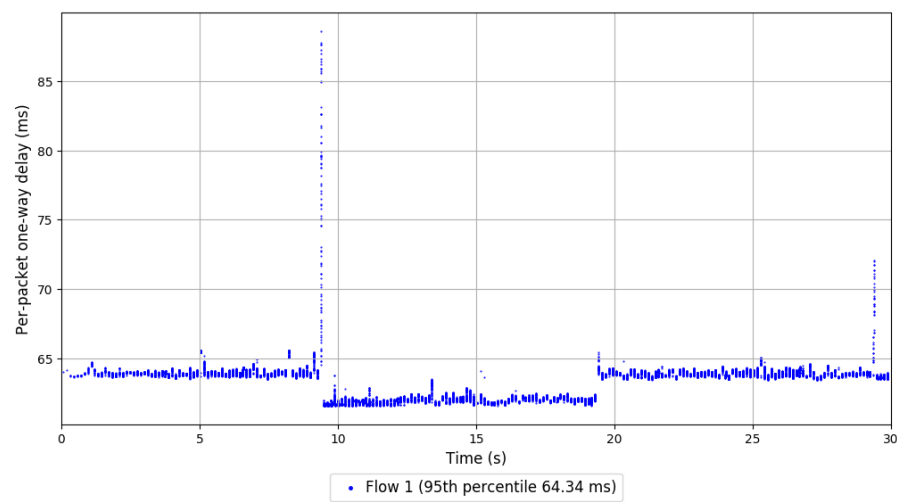
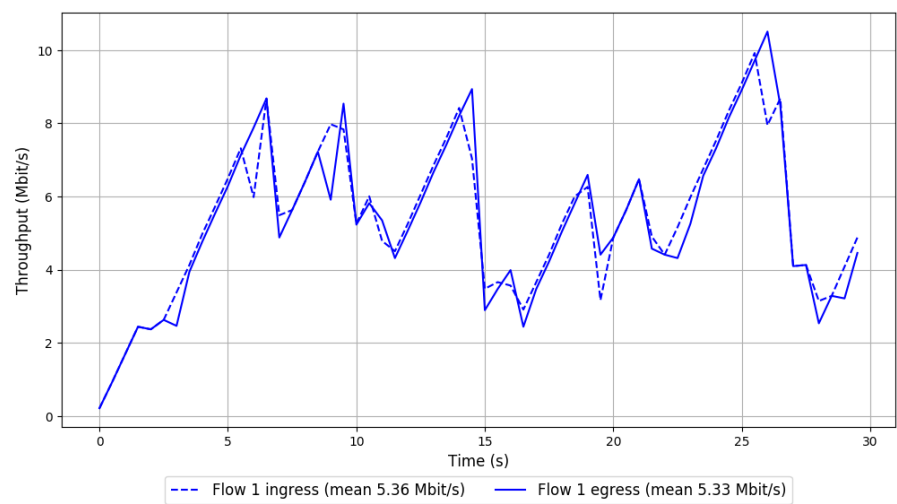
Average throughput: 5.33 Mbit/s

95th percentile per-packet one-way delay: 64.336 ms

Loss rate: 1.04%



Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

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

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

# Below is generated by plot.py at 2017-09-21 23:23:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.01 Mbit/s

95th percentile per-packet one-way delay: 64.522 ms

Loss rate: 1.11%

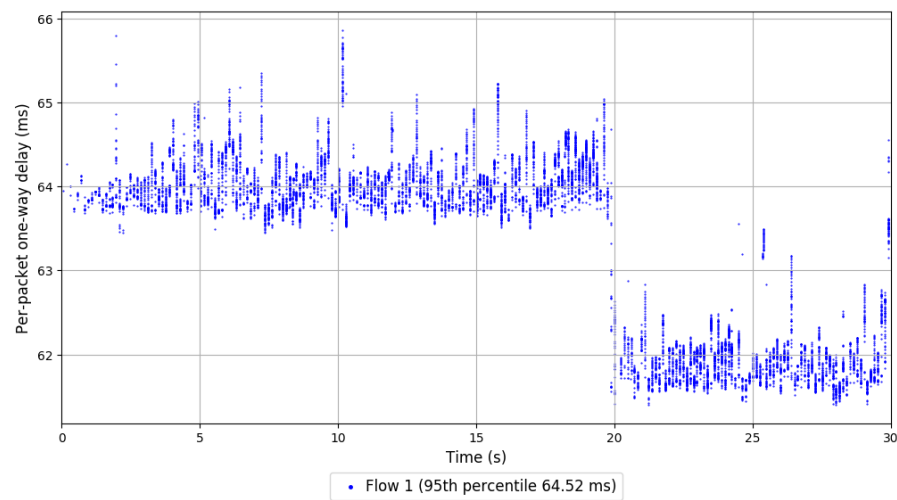
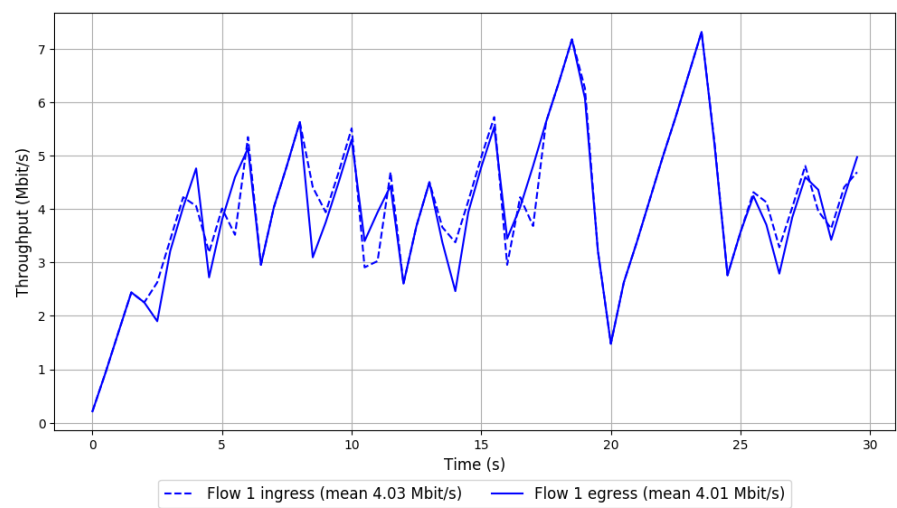
-- Flow 1:

Average throughput: 4.01 Mbit/s

95th percentile per-packet one-way delay: 64.522 ms

Loss rate: 1.11%

Run 10: Report of LEDBAT — Data Link

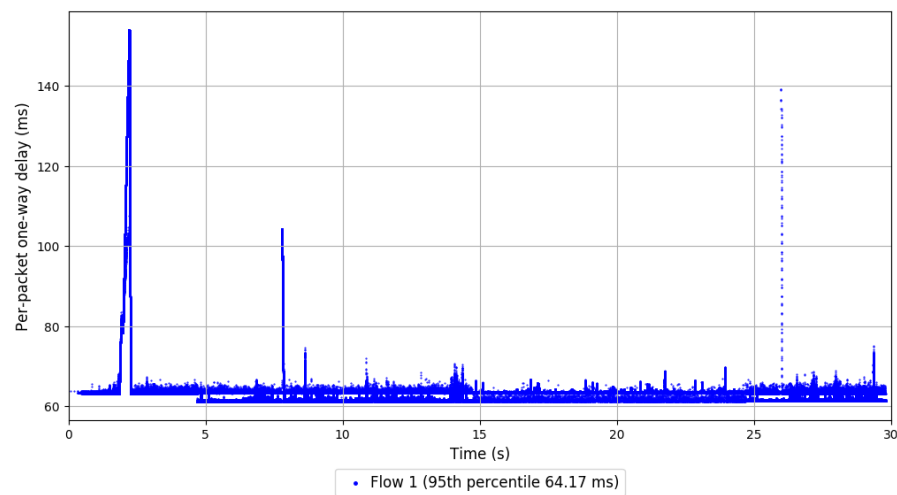
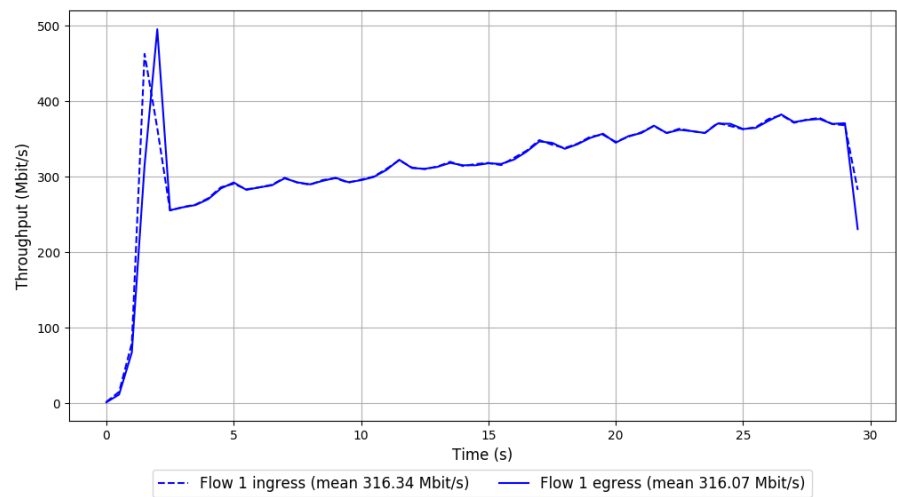


```
Run 1: Statistics of PCC

Start at: 2017-09-21 19:48:56
End at: 2017-09-21 19:49:26

# Below is generated by plot.py at 2017-09-21 23:27:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 316.07 Mbit/s
95th percentile per-packet one-way delay: 64.171 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 316.07 Mbit/s
95th percentile per-packet one-way delay: 64.171 ms
Loss rate: 0.51%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-09-21 19:59:23

End at: 2017-09-21 19:59:53

# Below is generated by plot.py at 2017-09-21 23:32:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 484.79 Mbit/s

95th percentile per-packet one-way delay: 96.882 ms

Loss rate: 0.85%

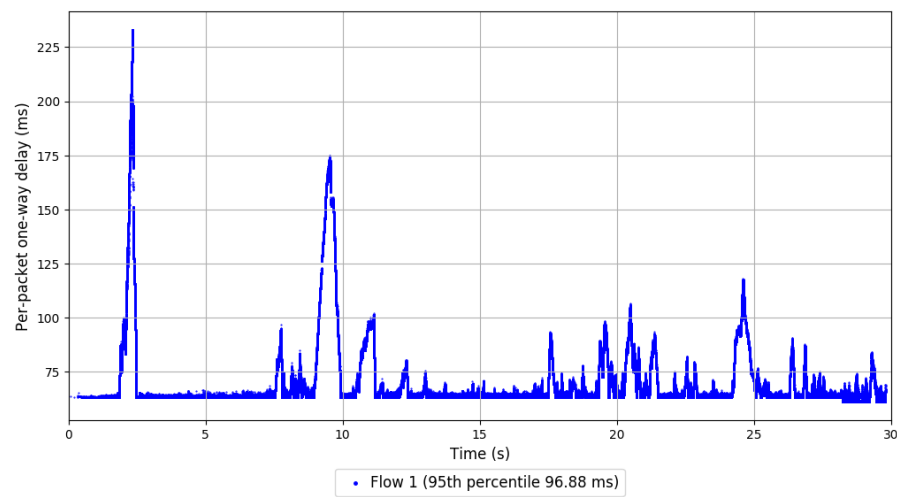
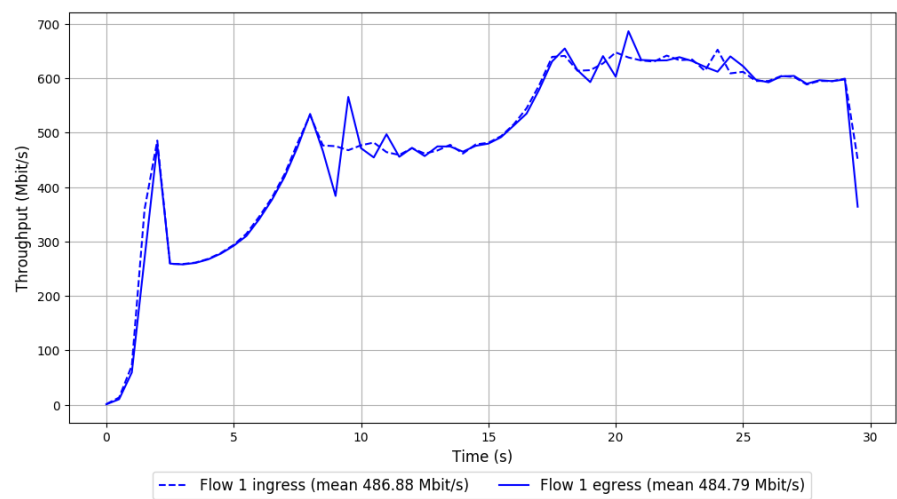
-- Flow 1:

Average throughput: 484.79 Mbit/s

95th percentile per-packet one-way delay: 96.882 ms

Loss rate: 0.85%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-09-21 20:10:00

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

# Below is generated by plot.py at 2017-09-21 23:32:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 526.82 Mbit/s

95th percentile per-packet one-way delay: 155.892 ms

Loss rate: 2.95%

-- Flow 1:

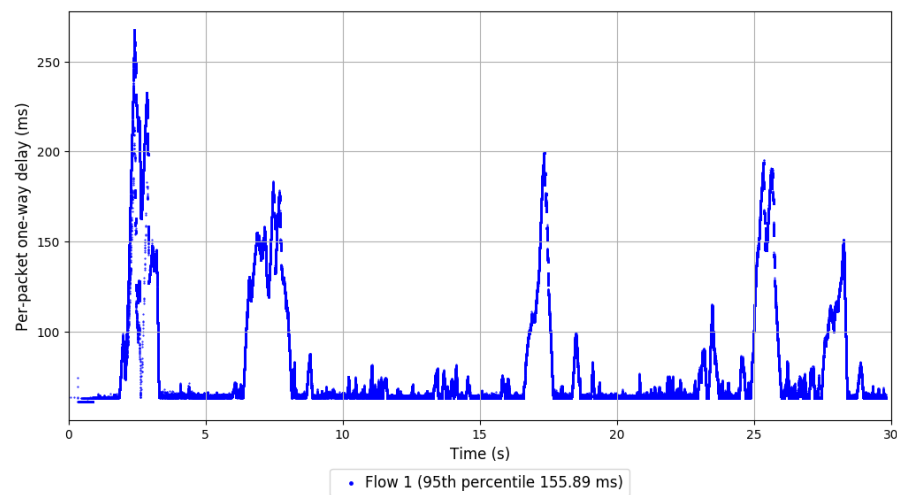
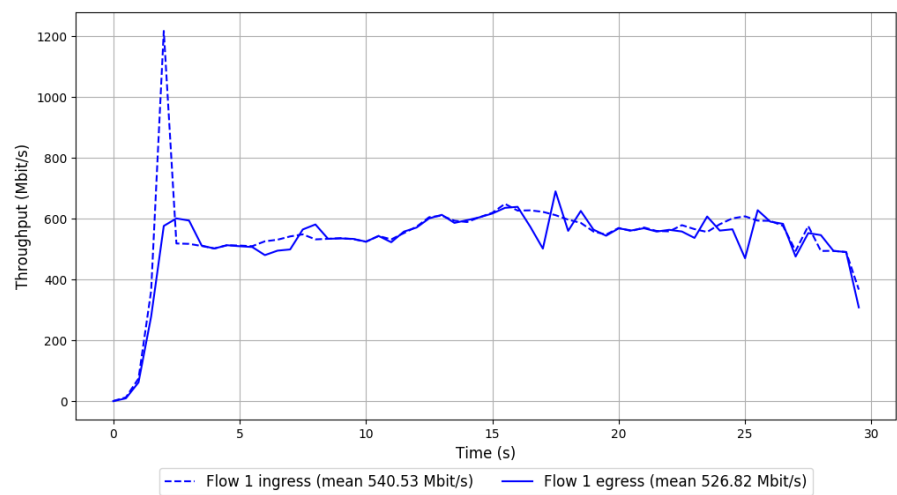
Average throughput: 526.82 Mbit/s

95th percentile per-packet one-way delay: 155.892 ms

Loss rate: 2.95%



Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

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

End at: 2017-09-21 20:21:19

# Below is generated by plot.py at 2017-09-21 23:32:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 472.27 Mbit/s

95th percentile per-packet one-way delay: 146.547 ms

Loss rate: 2.36%

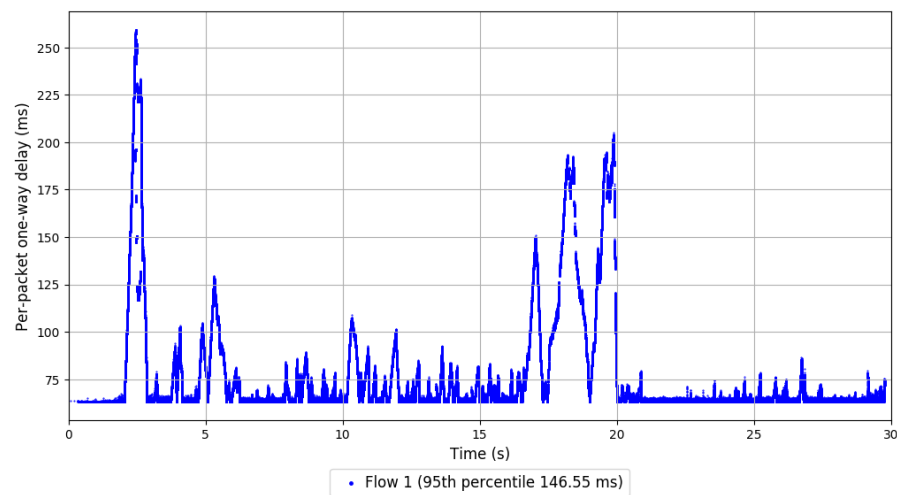
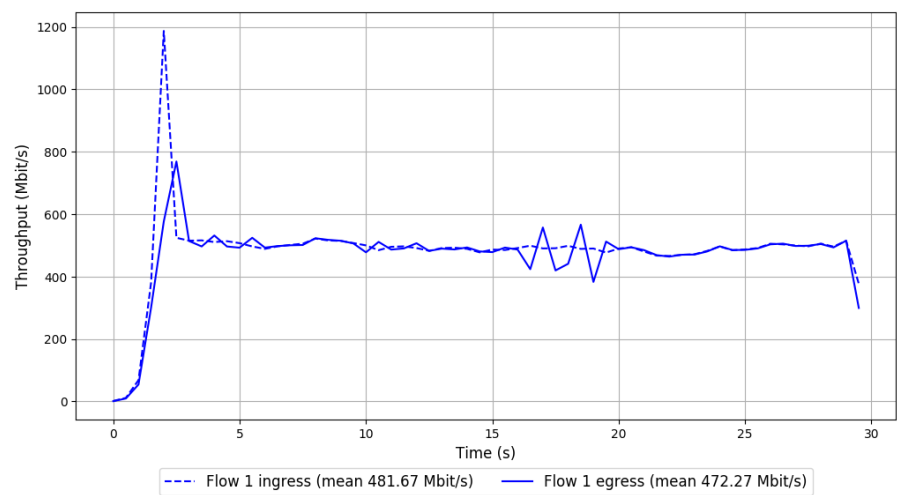
-- Flow 1:

Average throughput: 472.27 Mbit/s

95th percentile per-packet one-way delay: 146.547 ms

Loss rate: 2.36%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-09-21 20:31:28

End at: 2017-09-21 20:31:58

# Below is generated by plot.py at 2017-09-21 23:32:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 495.97 Mbit/s

95th percentile per-packet one-way delay: 162.162 ms

Loss rate: 3.04%

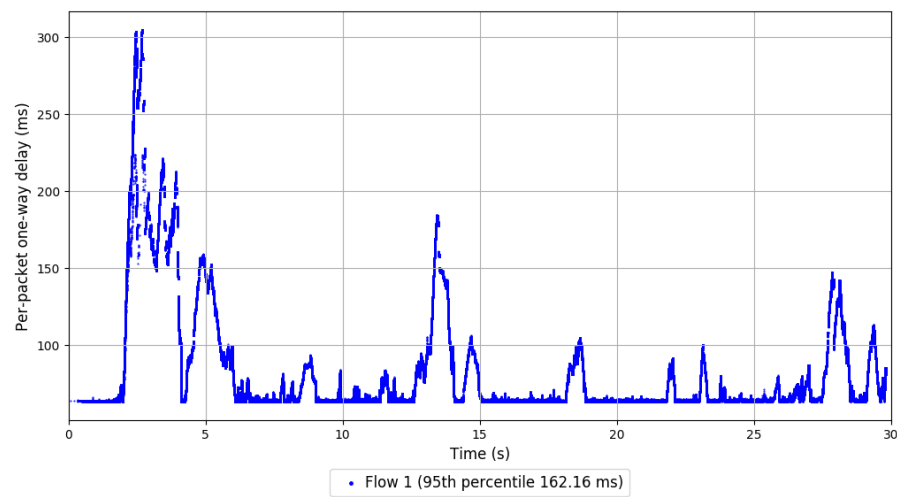
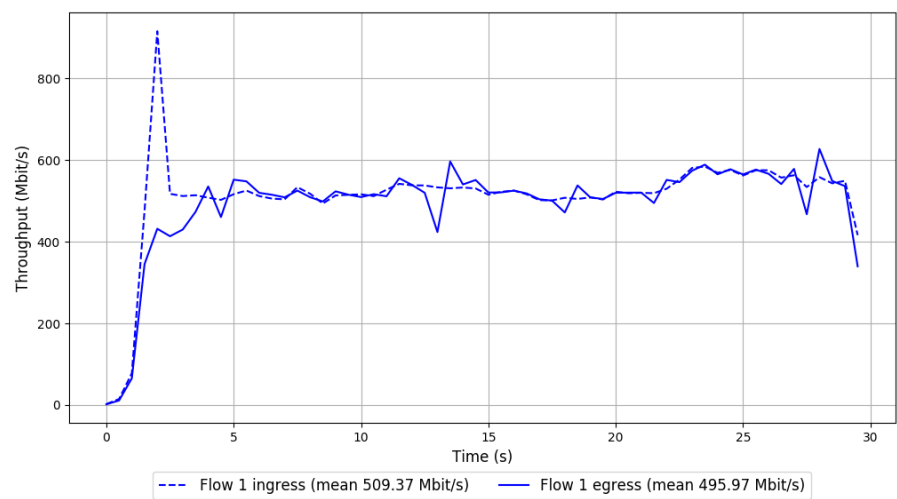
-- Flow 1:

Average throughput: 495.97 Mbit/s

95th percentile per-packet one-way delay: 162.162 ms

Loss rate: 3.04%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-09-21 20:42:10

End at: 2017-09-21 20:42:40

# Below is generated by plot.py at 2017-09-21 23:32:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 503.15 Mbit/s

95th percentile per-packet one-way delay: 135.191 ms

Loss rate: 1.29%

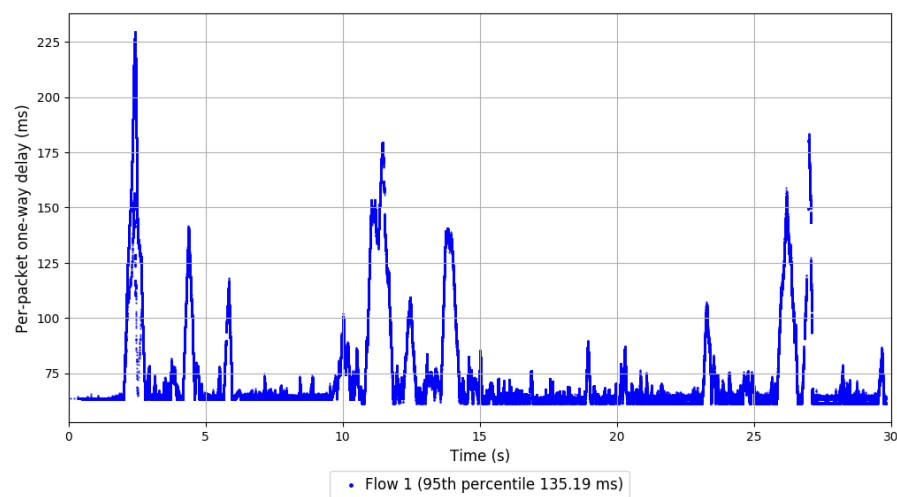
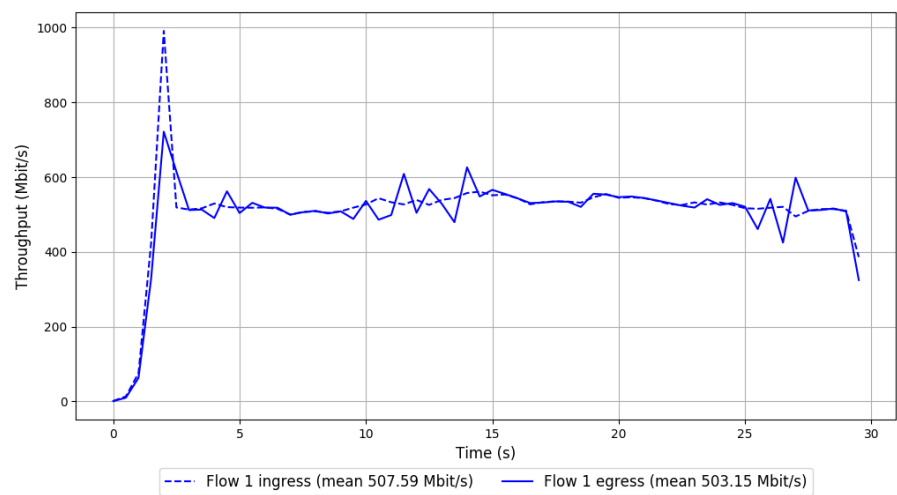
-- Flow 1:

Average throughput: 503.15 Mbit/s

95th percentile per-packet one-way delay: 135.191 ms

Loss rate: 1.29%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-09-21 20:53:00

End at: 2017-09-21 20:53:30

# Below is generated by plot.py at 2017-09-21 23:33:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 509.16 Mbit/s

95th percentile per-packet one-way delay: 127.180 ms

Loss rate: 1.34%

-- Flow 1:

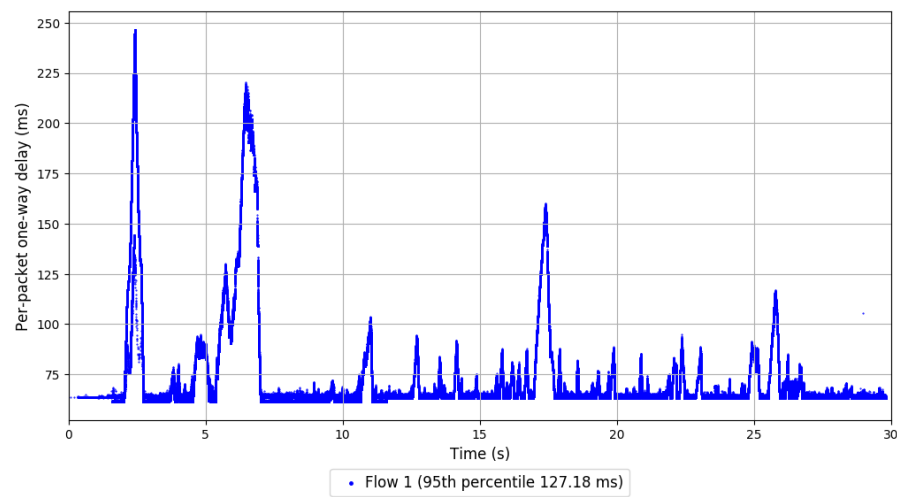
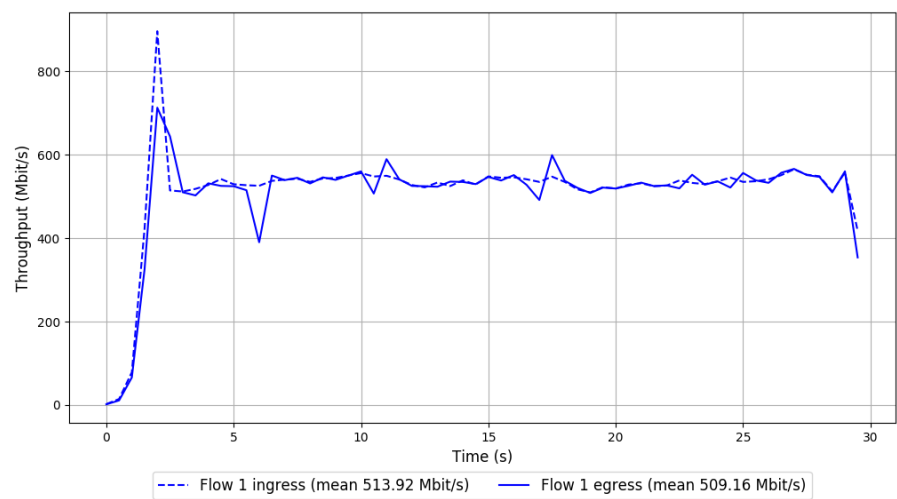
Average throughput: 509.16 Mbit/s

95th percentile per-packet one-way delay: 127.180 ms

Loss rate: 1.34%



Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-09-21 21:03:40

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

# Below is generated by plot.py at 2017-09-21 23:34:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 545.96 Mbit/s

95th percentile per-packet one-way delay: 157.125 ms

Loss rate: 2.43%

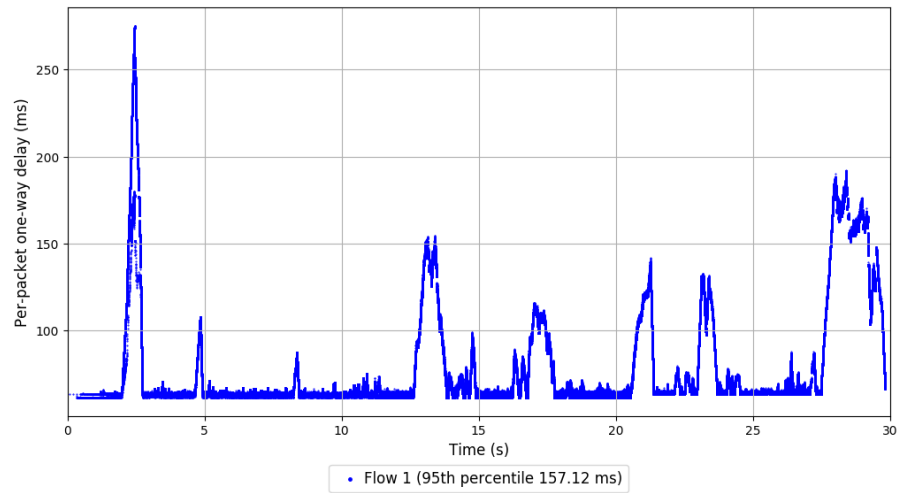
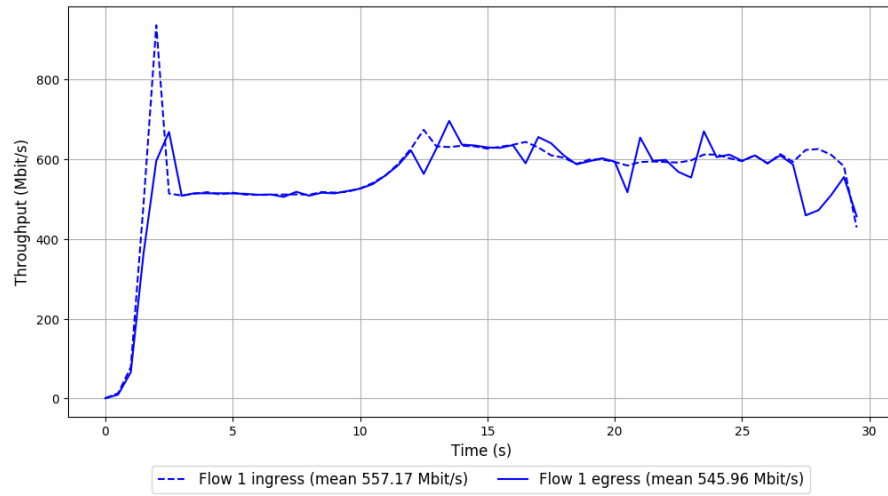
-- Flow 1:

Average throughput: 545.96 Mbit/s

95th percentile per-packet one-way delay: 157.125 ms

Loss rate: 2.43%

## Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

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

End at: 2017-09-21 21:14:47

# Below is generated by plot.py at 2017-09-21 23:40:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 500.03 Mbit/s

95th percentile per-packet one-way delay: 90.811 ms

Loss rate: 2.81%

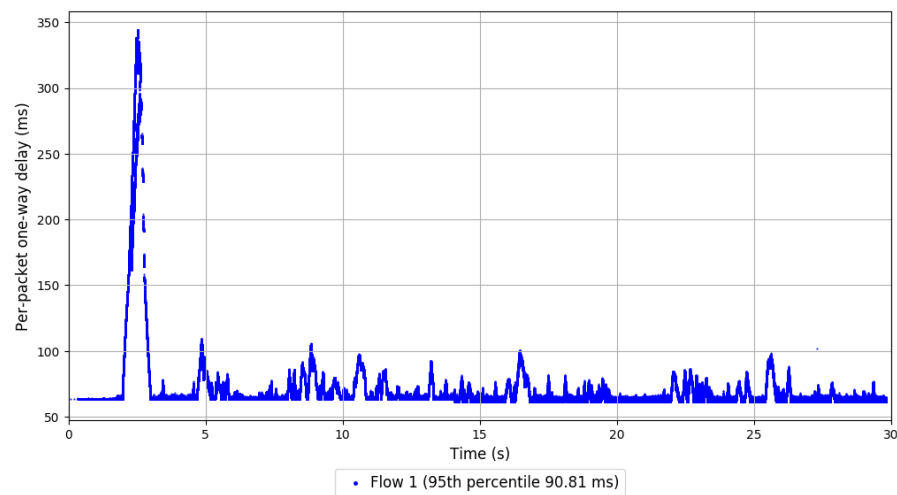
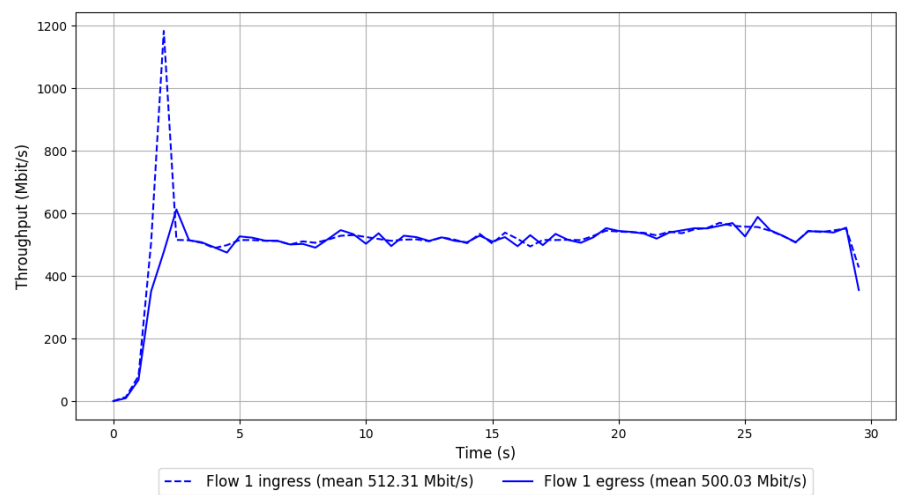
-- Flow 1:

Average throughput: 500.03 Mbit/s

95th percentile per-packet one-way delay: 90.811 ms

Loss rate: 2.81%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

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

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

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 513.62 Mbit/s

95th percentile per-packet one-way delay: 140.927 ms

Loss rate: 1.82%

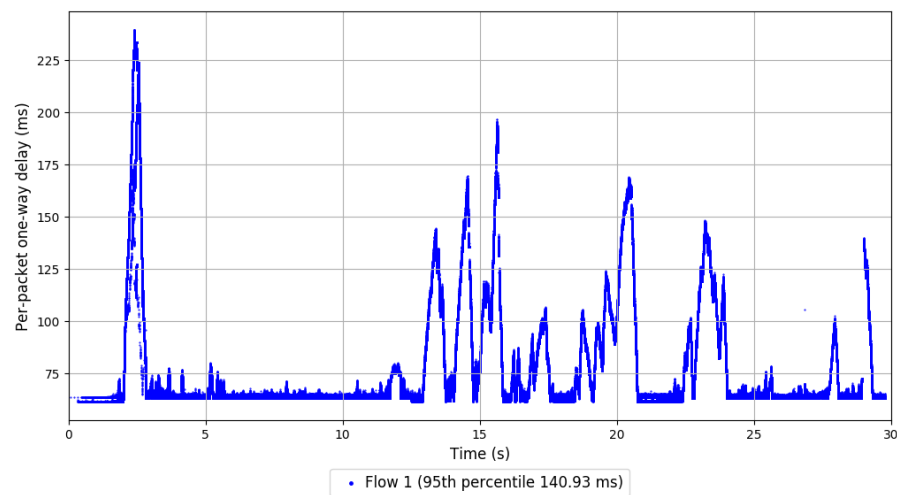
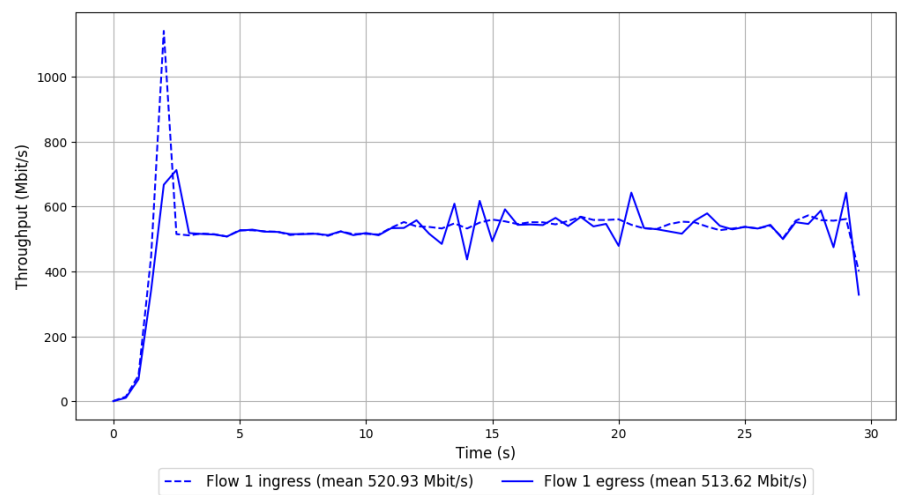
-- Flow 1:

Average throughput: 513.62 Mbit/s

95th percentile per-packet one-way delay: 140.927 ms

Loss rate: 1.82%

Run 10: Report of PCC — Data Link



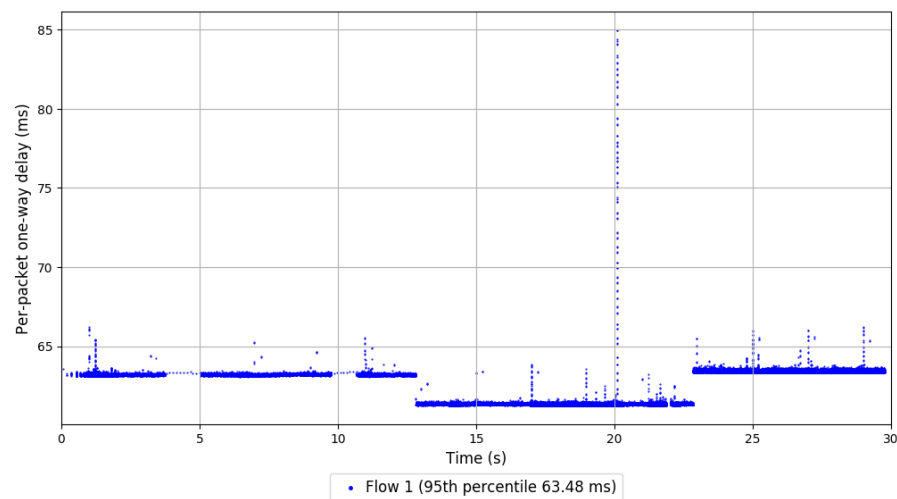
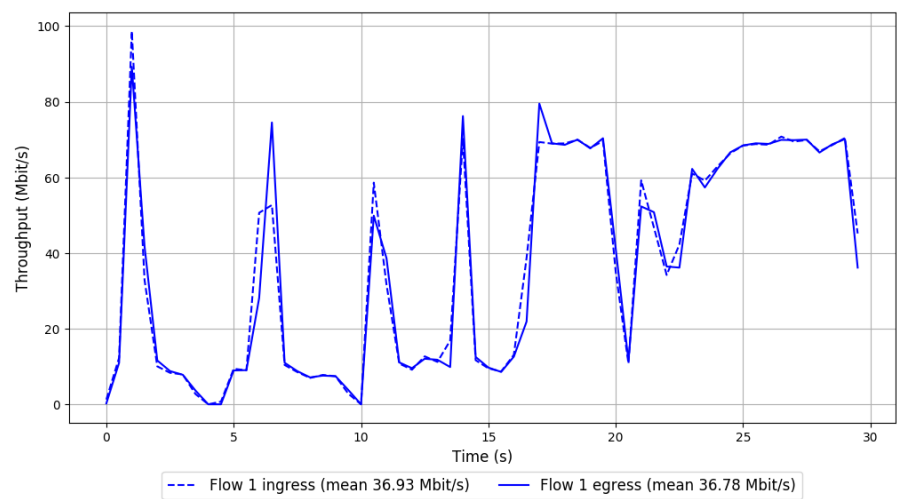
```
Run 1: Statistics of QUIC Cubic

Start at: 2017-09-21 19:41:48
End at: 2017-09-21 19:42:18

# Below is generated by plot.py at 2017-09-21 23:43:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.78 Mbit/s
95th percentile per-packet one-way delay: 63.478 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 36.78 Mbit/s
95th percentile per-packet one-way delay: 63.478 ms
Loss rate: 0.82%
```



Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-09-21 19:52:19

End at: 2017-09-21 19:52:49

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 45.47 Mbit/s

95th percentile per-packet one-way delay: 63.507 ms

Loss rate: 0.73%

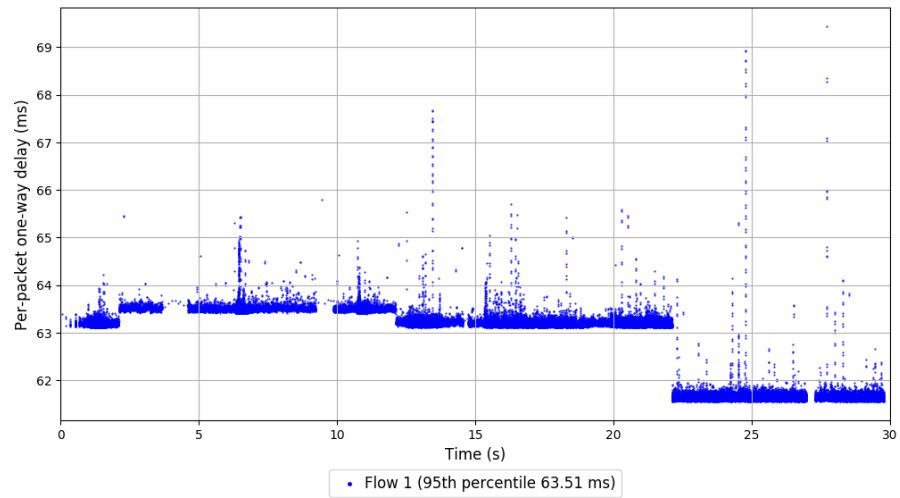
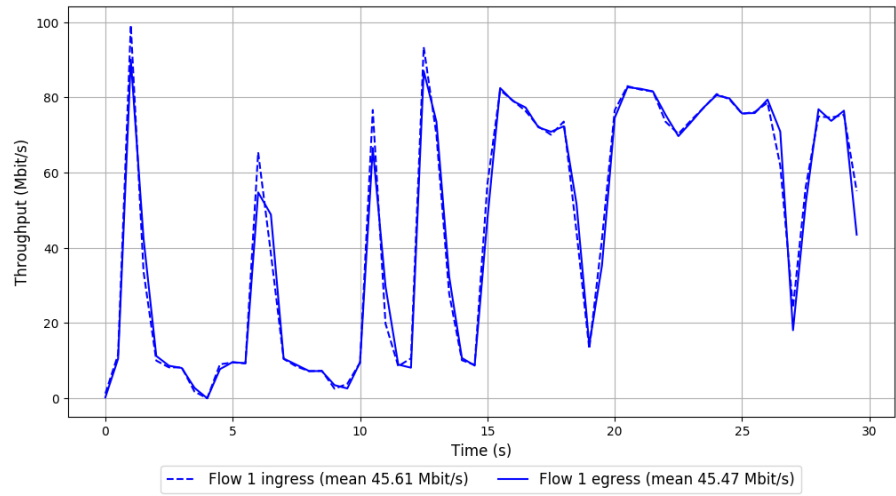
-- Flow 1:

Average throughput: 45.47 Mbit/s

95th percentile per-packet one-way delay: 63.507 ms

Loss rate: 0.73%

## Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-09-21 20:02:54

End at: 2017-09-21 20:03:24

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 40.51 Mbit/s

95th percentile per-packet one-way delay: 63.519 ms

Loss rate: 0.16%

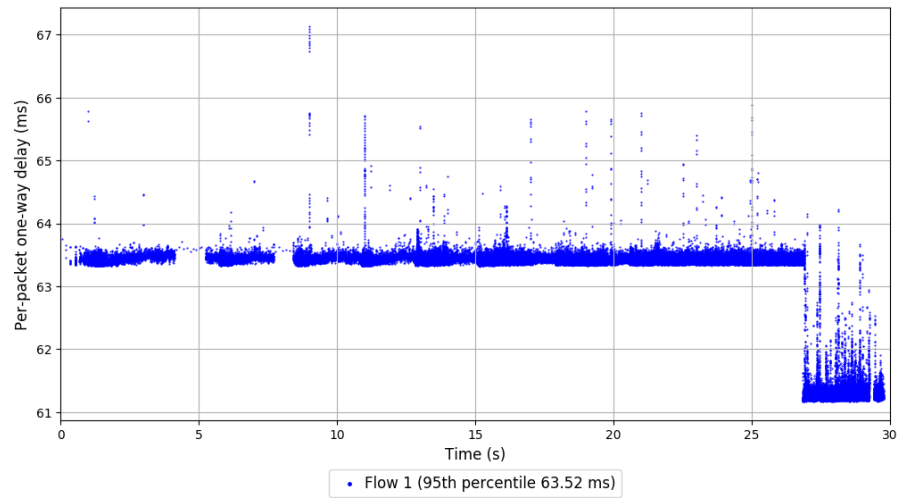
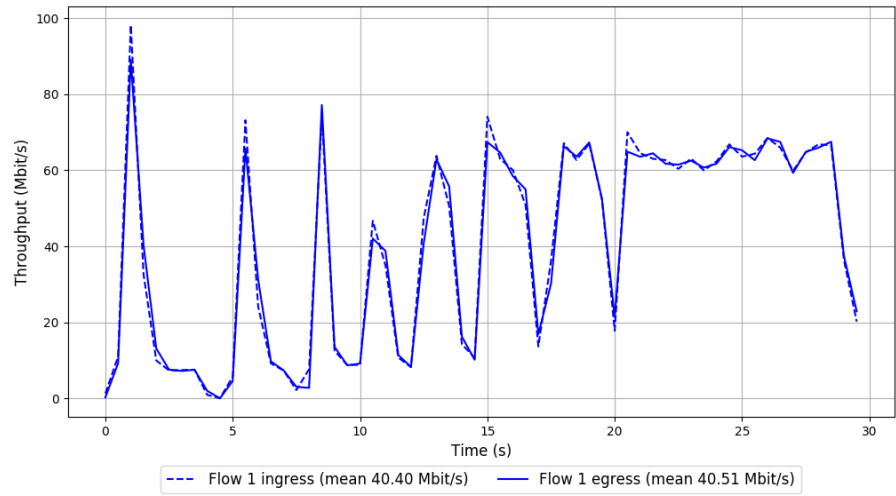
-- Flow 1:

Average throughput: 40.51 Mbit/s

95th percentile per-packet one-way delay: 63.519 ms

Loss rate: 0.16%

### Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-09-21 20:13:43

End at: 2017-09-21 20:14:13

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 41.61 Mbit/s

95th percentile per-packet one-way delay: 62.300 ms

Loss rate: 0.77%

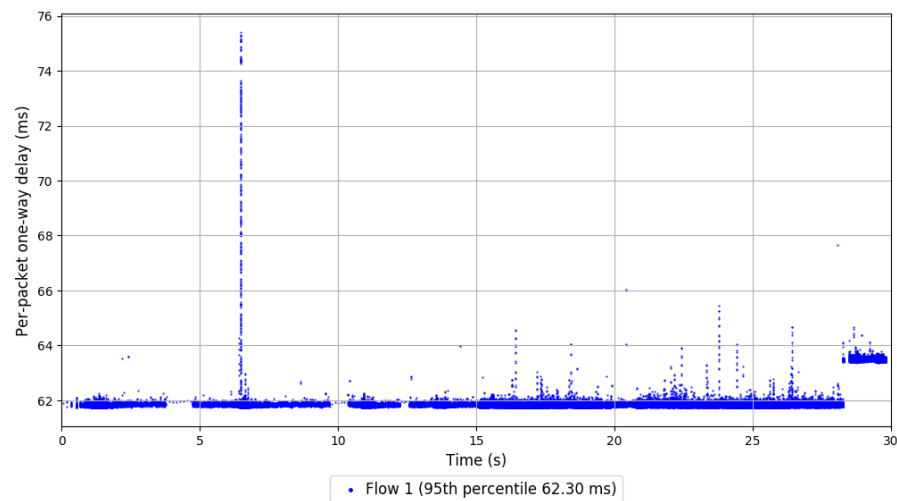
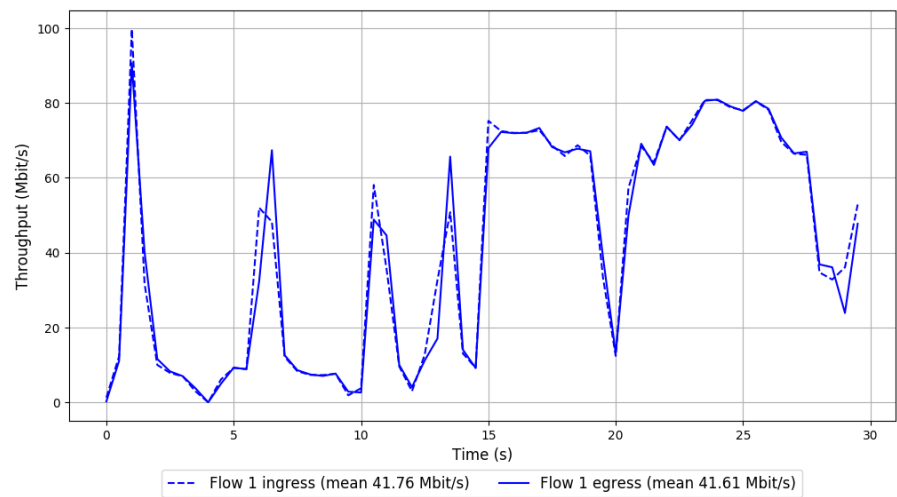
-- Flow 1:

Average throughput: 41.61 Mbit/s

95th percentile per-packet one-way delay: 62.300 ms

Loss rate: 0.77%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-09-21 20:24:23

End at: 2017-09-21 20:24:53

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 48.13 Mbit/s

95th percentile per-packet one-way delay: 63.491 ms

Loss rate: 0.71%

-- Flow 1:

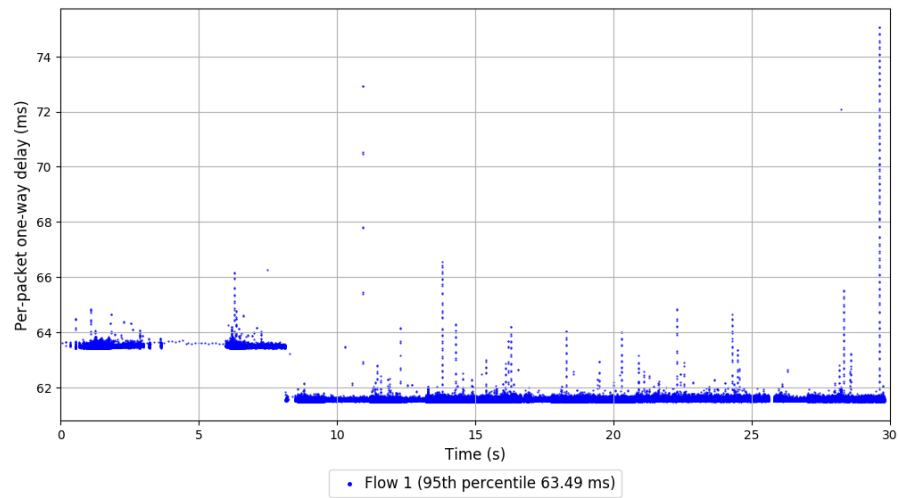
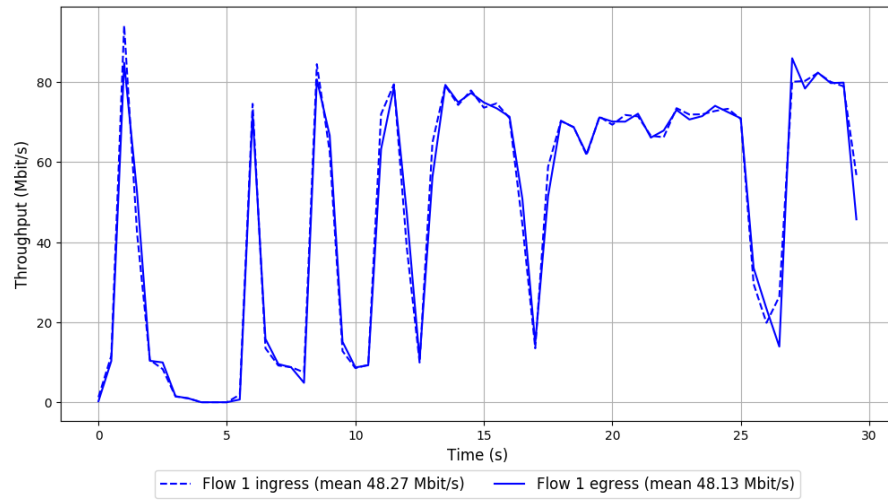
Average throughput: 48.13 Mbit/s

95th percentile per-packet one-way delay: 63.491 ms

Loss rate: 0.71%



## Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-09-21 20:35:01

End at: 2017-09-21 20:35:31

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 16.10 Mbit/s

95th percentile per-packet one-way delay: 63.565 ms

Loss rate: 1.00%

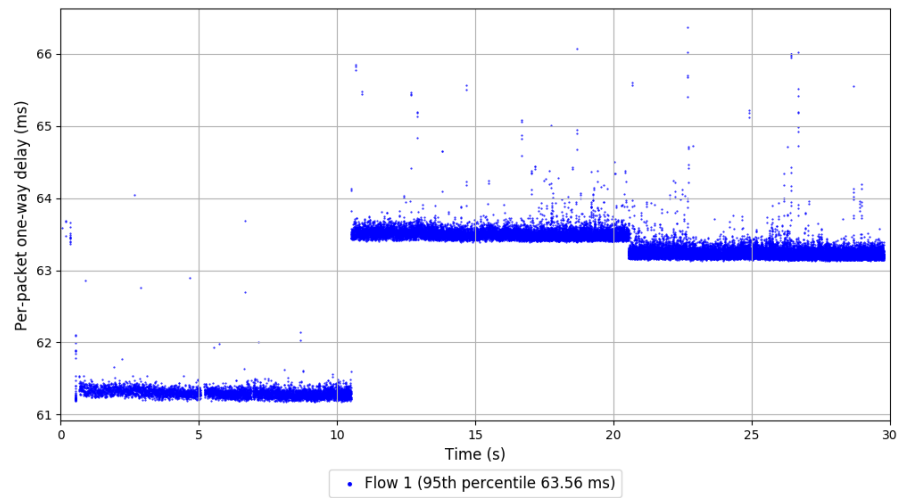
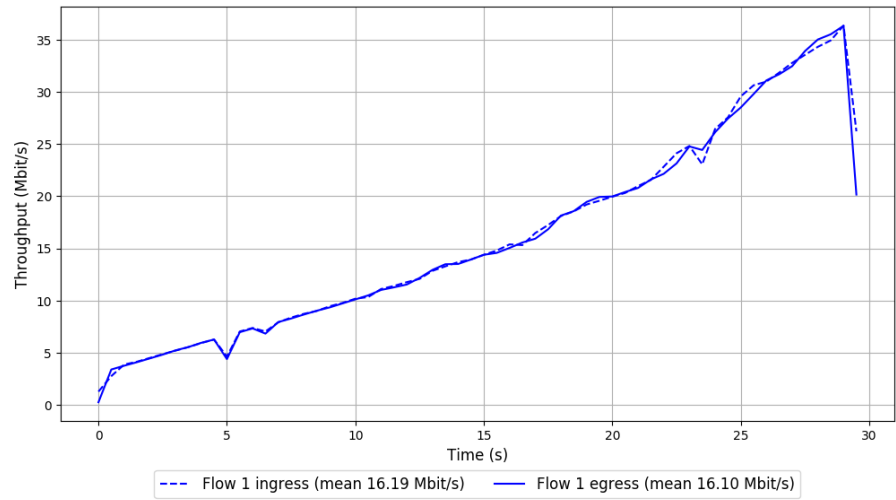
-- Flow 1:

Average throughput: 16.10 Mbit/s

95th percentile per-packet one-way delay: 63.565 ms

Loss rate: 1.00%

## Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-09-21 20:45:56

End at: 2017-09-21 20:46:26

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 51.18 Mbit/s

95th percentile per-packet one-way delay: 63.795 ms

Loss rate: 0.65%

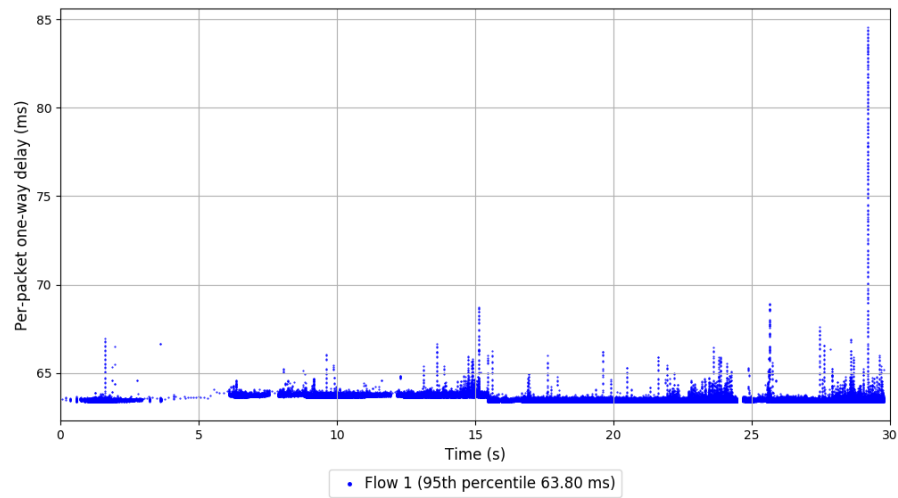
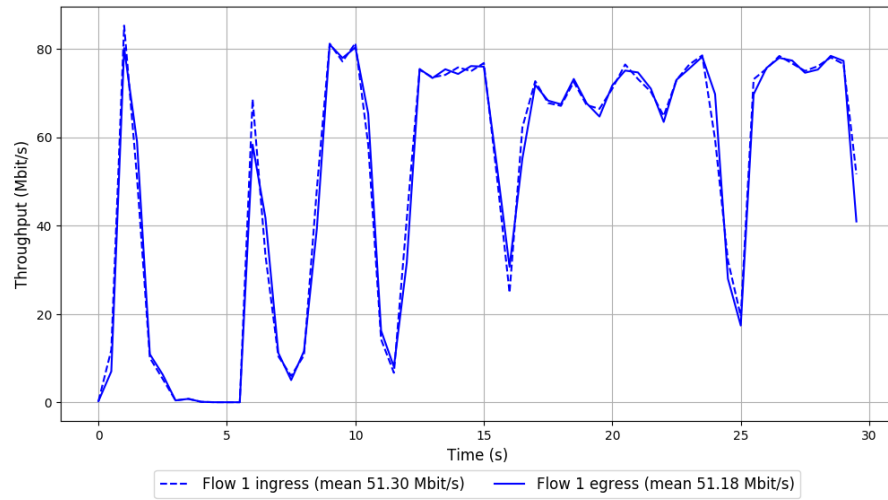
-- Flow 1:

Average throughput: 51.18 Mbit/s

95th percentile per-packet one-way delay: 63.795 ms

Loss rate: 0.65%

## Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-09-21 20:56:33

End at: 2017-09-21 20:57:03

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.83 Mbit/s

95th percentile per-packet one-way delay: 63.653 ms

Loss rate: 0.60%

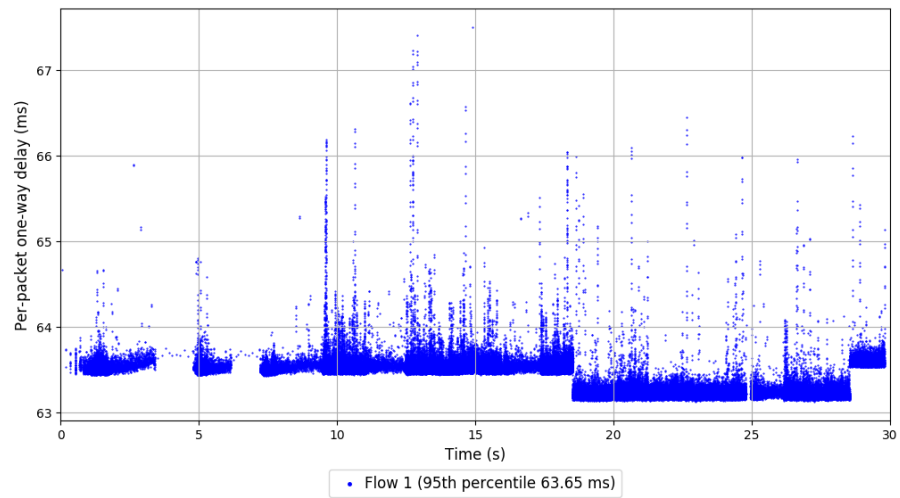
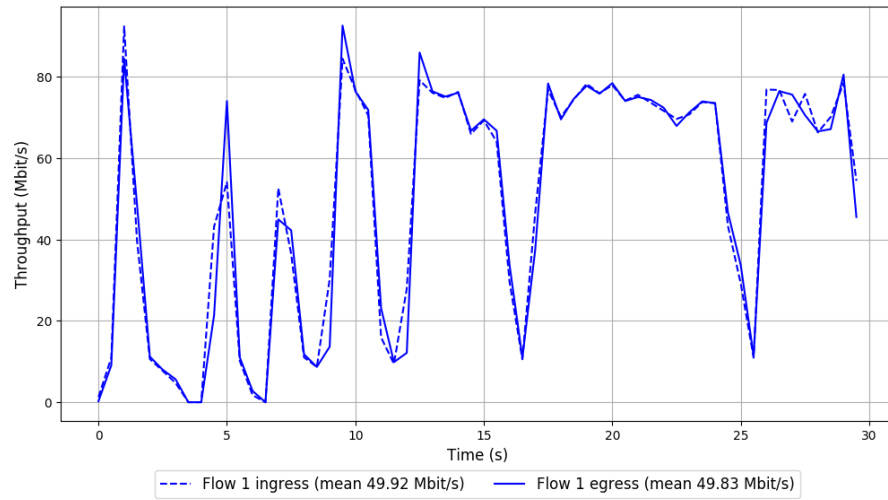
-- Flow 1:

Average throughput: 49.83 Mbit/s

95th percentile per-packet one-way delay: 63.653 ms

Loss rate: 0.60%

## Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

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

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

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 44.41 Mbit/s

95th percentile per-packet one-way delay: 63.681 ms

Loss rate: 0.77%

-- Flow 1:

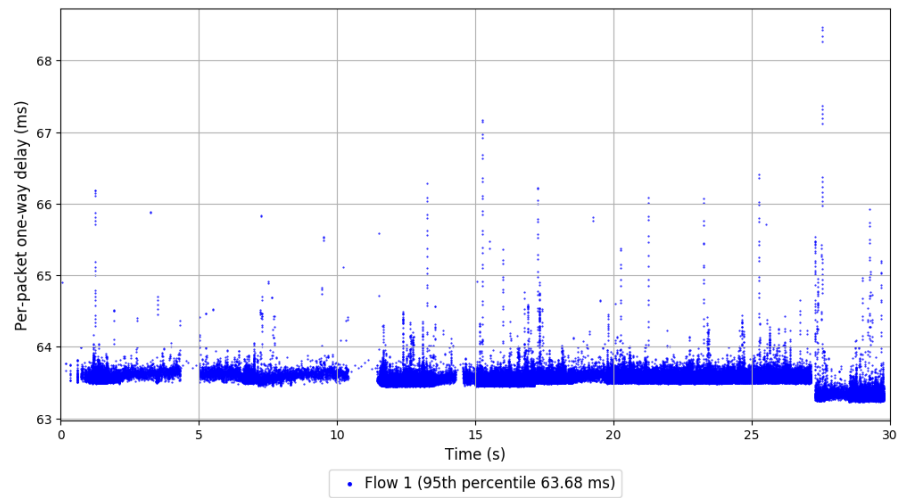
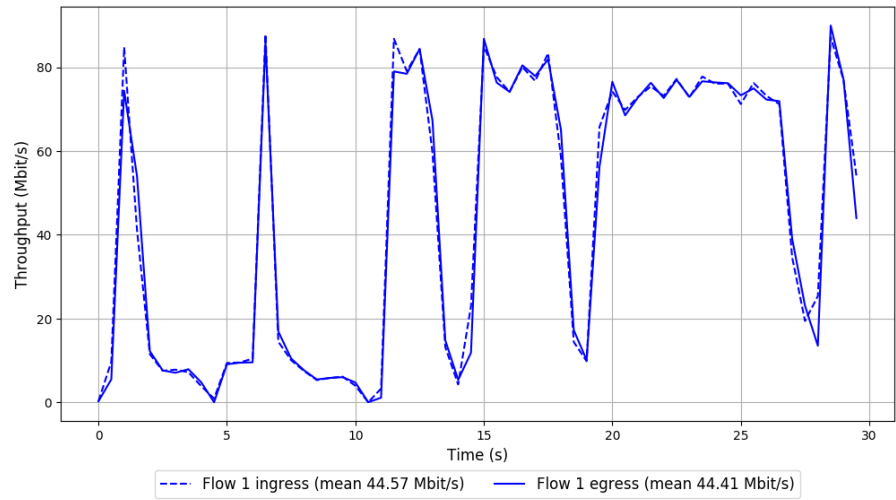
Average throughput: 44.41 Mbit/s

95th percentile per-packet one-way delay: 63.681 ms

Loss rate: 0.77%



### Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-09-21 21:18:04

End at: 2017-09-21 21:18:34

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 47.02 Mbit/s

95th percentile per-packet one-way delay: 63.619 ms

Loss rate: 0.65%

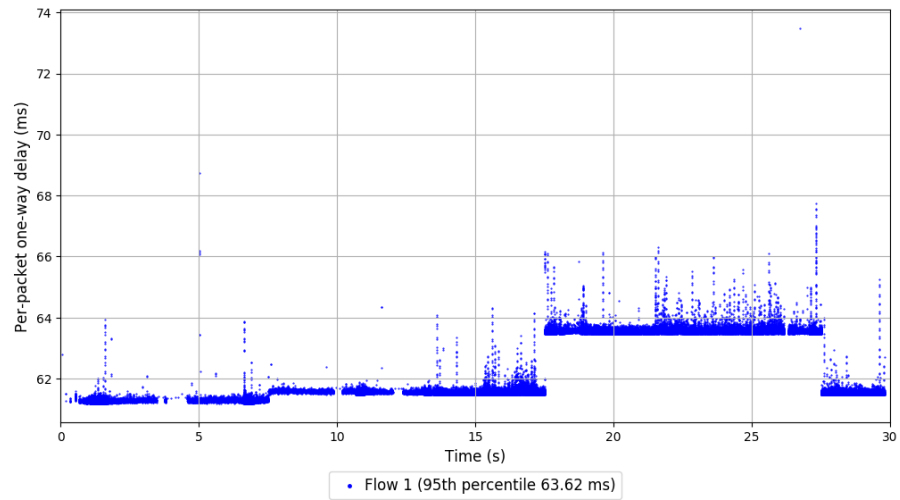
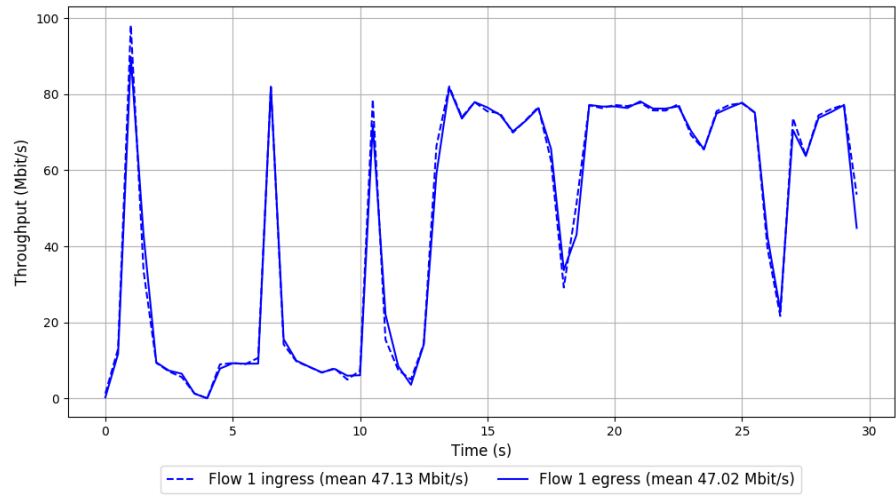
-- Flow 1:

Average throughput: 47.02 Mbit/s

95th percentile per-packet one-way delay: 63.619 ms

Loss rate: 0.65%

# Run 10: Report of QUIC Cubic — Data Link

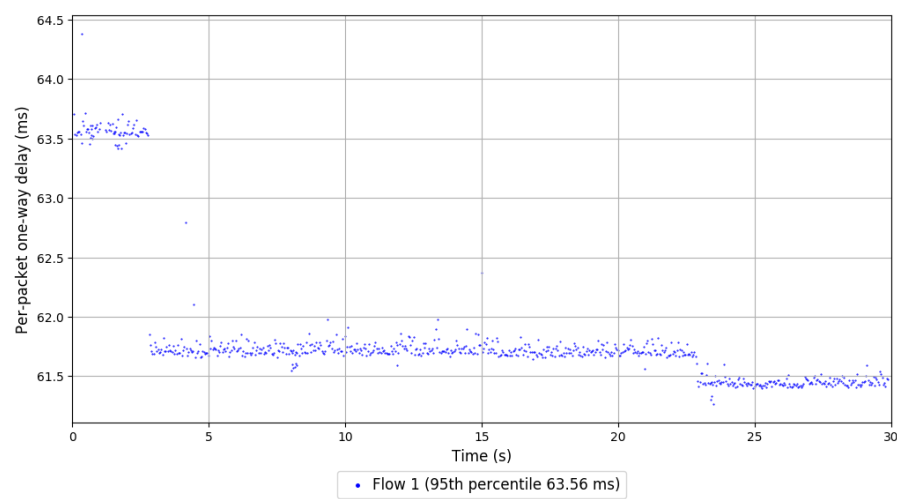
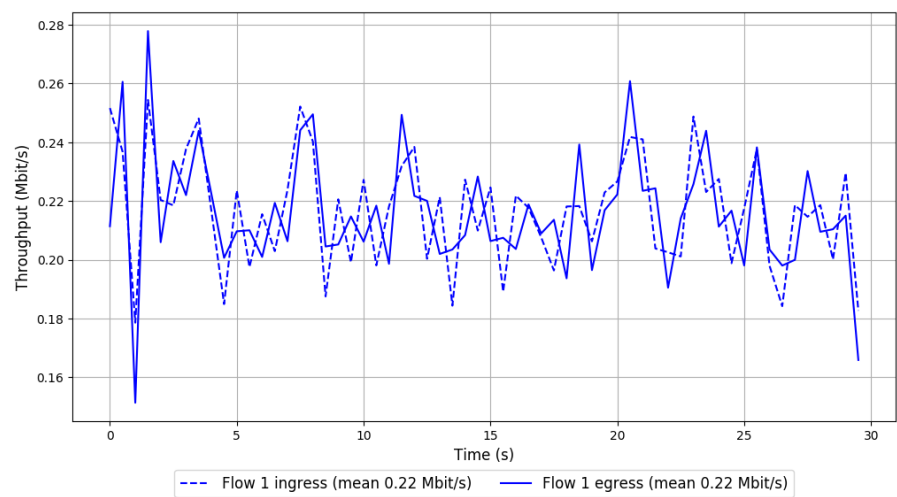


```
Run 1: Statistics of SCReAM

Start at: 2017-09-21 19:46:18
End at: 2017-09-21 19:46:48

# Below is generated by plot.py at 2017-09-21 23:43:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.557 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.557 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2017-09-21 19:56:48

End at: 2017-09-21 19:57:18

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.651 ms

Loss rate: 0.38%

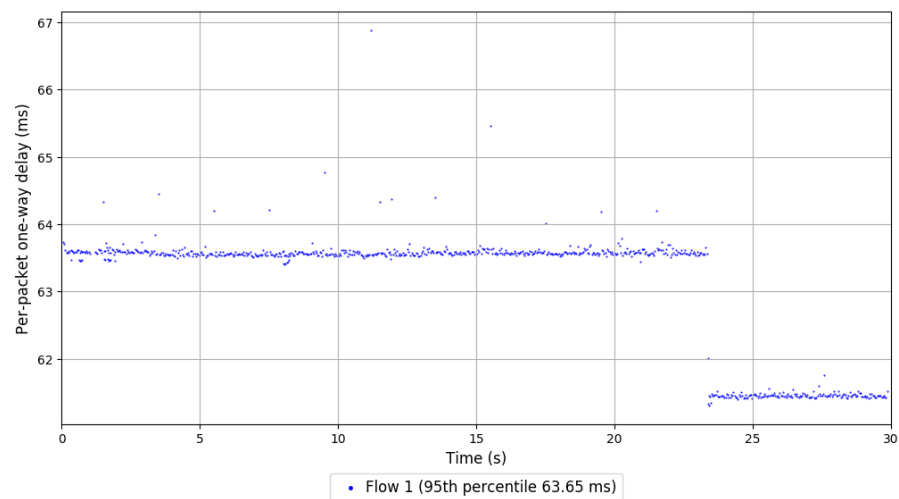
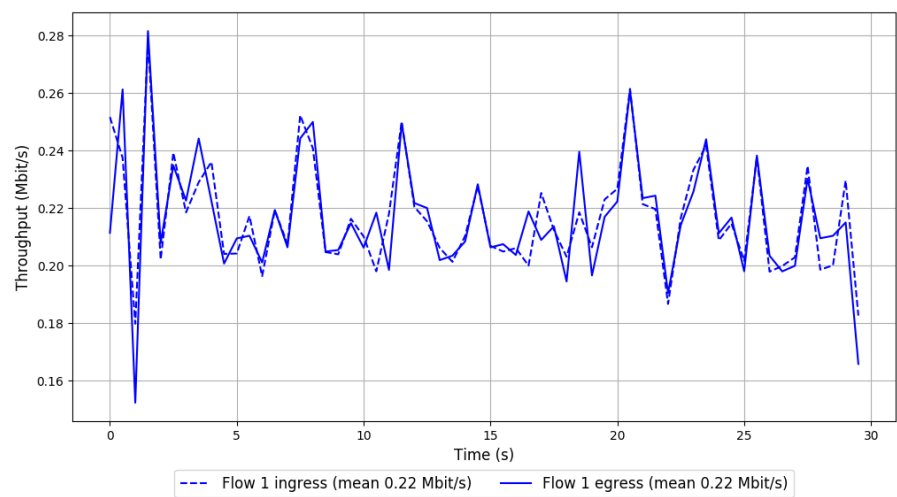
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.651 ms

Loss rate: 0.38%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-09-21 20:07:24

End at: 2017-09-21 20:07:54

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.728 ms

Loss rate: 0.38%

-- Flow 1:

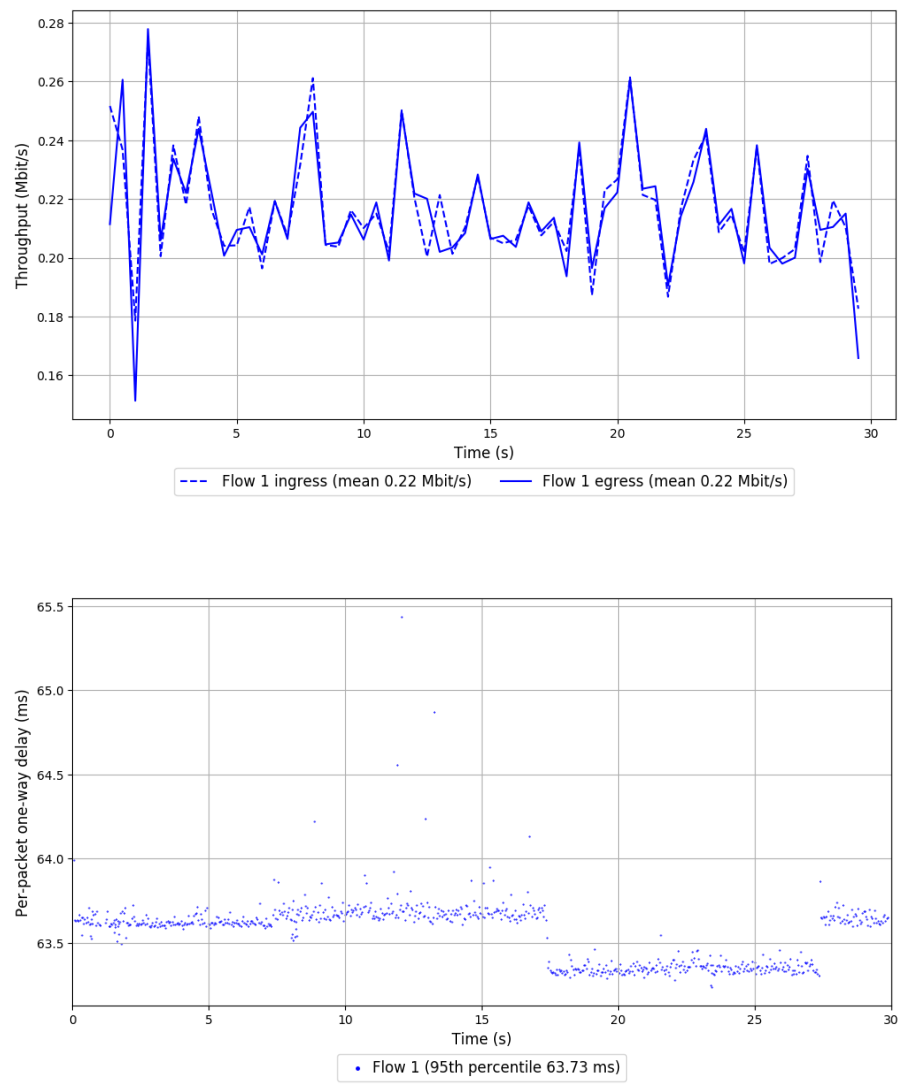
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.728 ms

Loss rate: 0.38%



Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-09-21 20:18:12

End at: 2017-09-21 20:18:42

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.38%

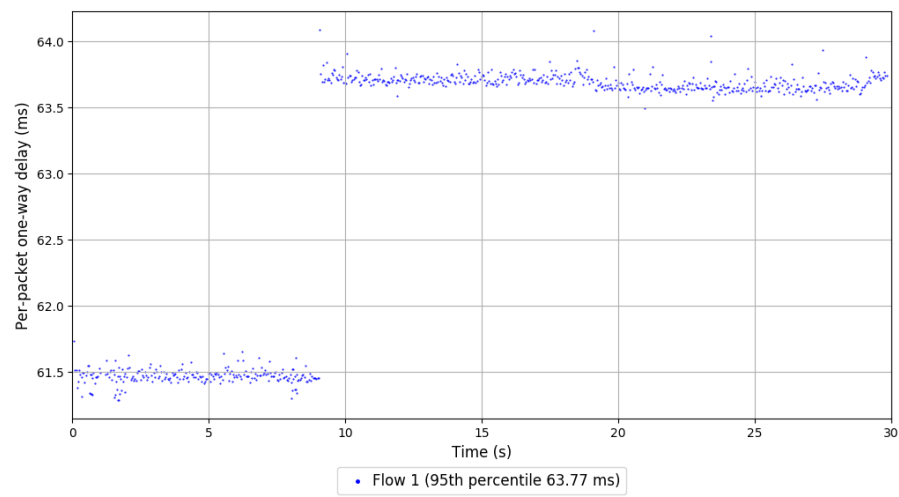
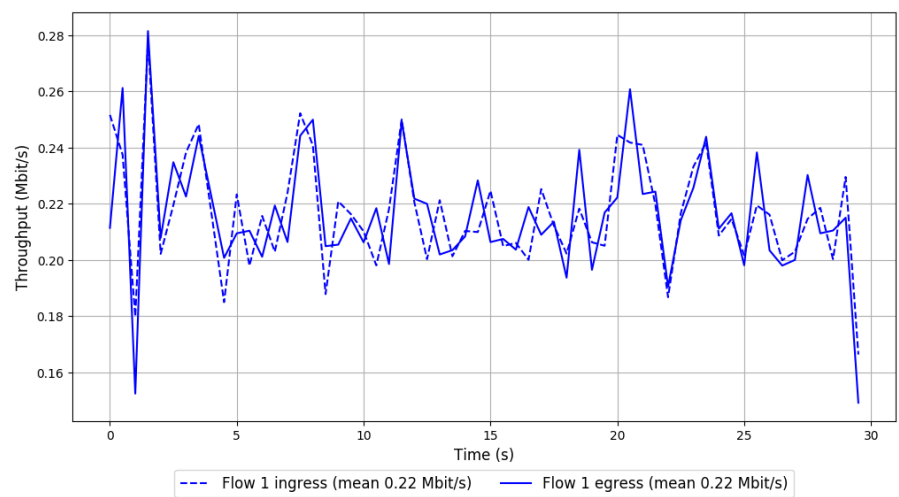
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.38%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-09-21 20:28:52

End at: 2017-09-21 20:29:22

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.648 ms

Loss rate: 0.38%

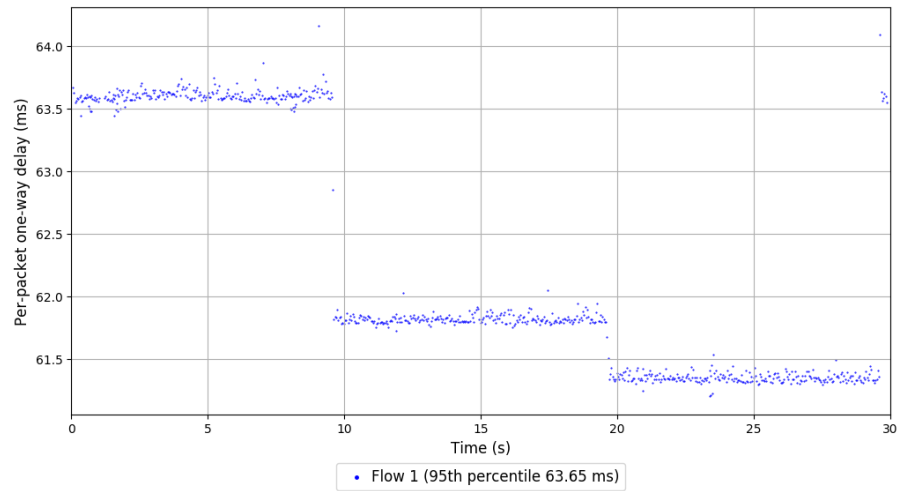
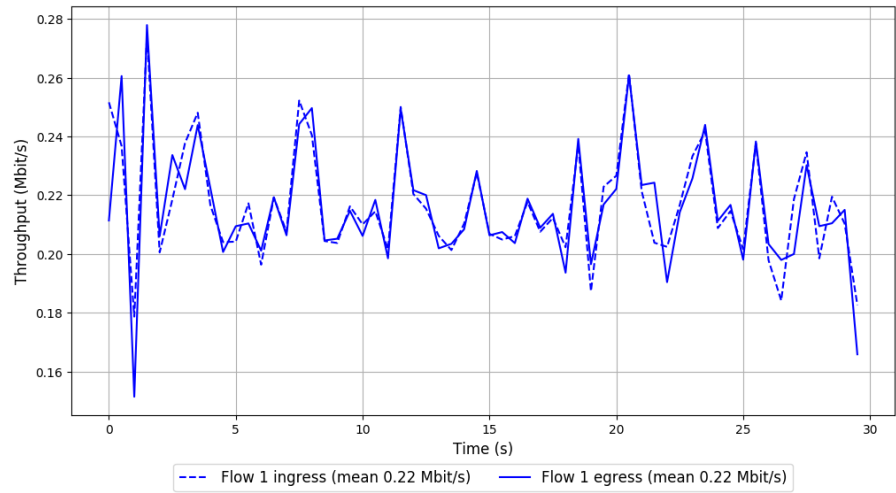
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.648 ms

Loss rate: 0.38%

## Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-09-21 20:39:29

End at: 2017-09-21 20:39:59

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.650 ms

Loss rate: 0.38%

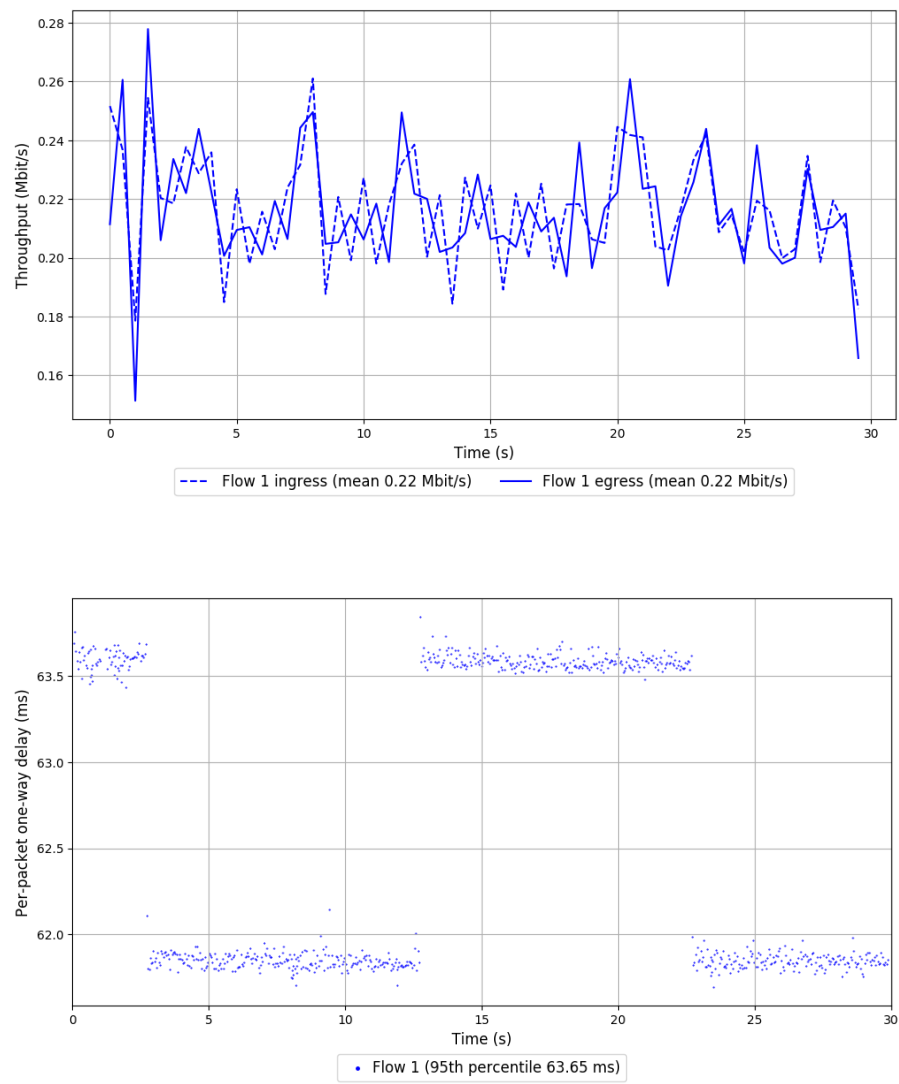
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.650 ms

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-09-21 20:50:27

End at: 2017-09-21 20:50:57

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.782 ms

Loss rate: 0.38%

-- Flow 1:

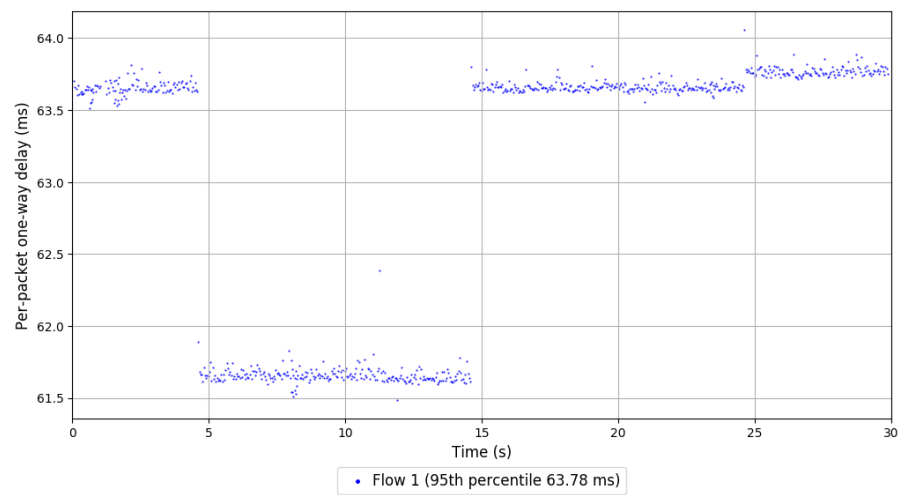
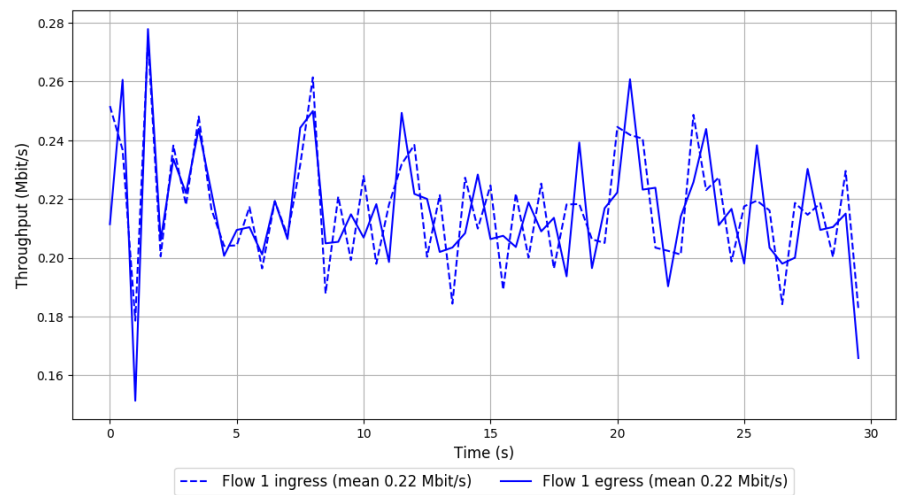
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.782 ms

Loss rate: 0.38%



Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-09-21 21:01:02

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

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.860 ms

Loss rate: 0.38%

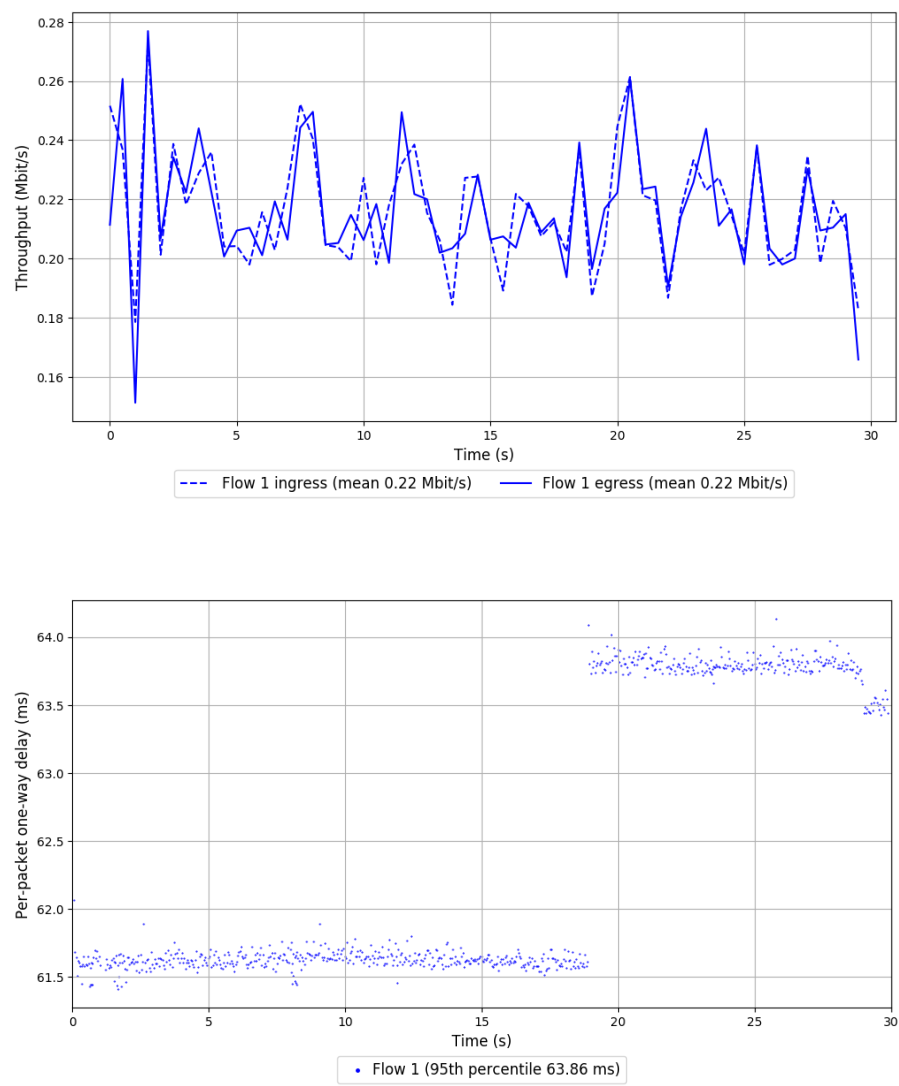
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.860 ms

Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

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

End at: 2017-09-21 21:12:11

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.835 ms

Loss rate: 0.38%

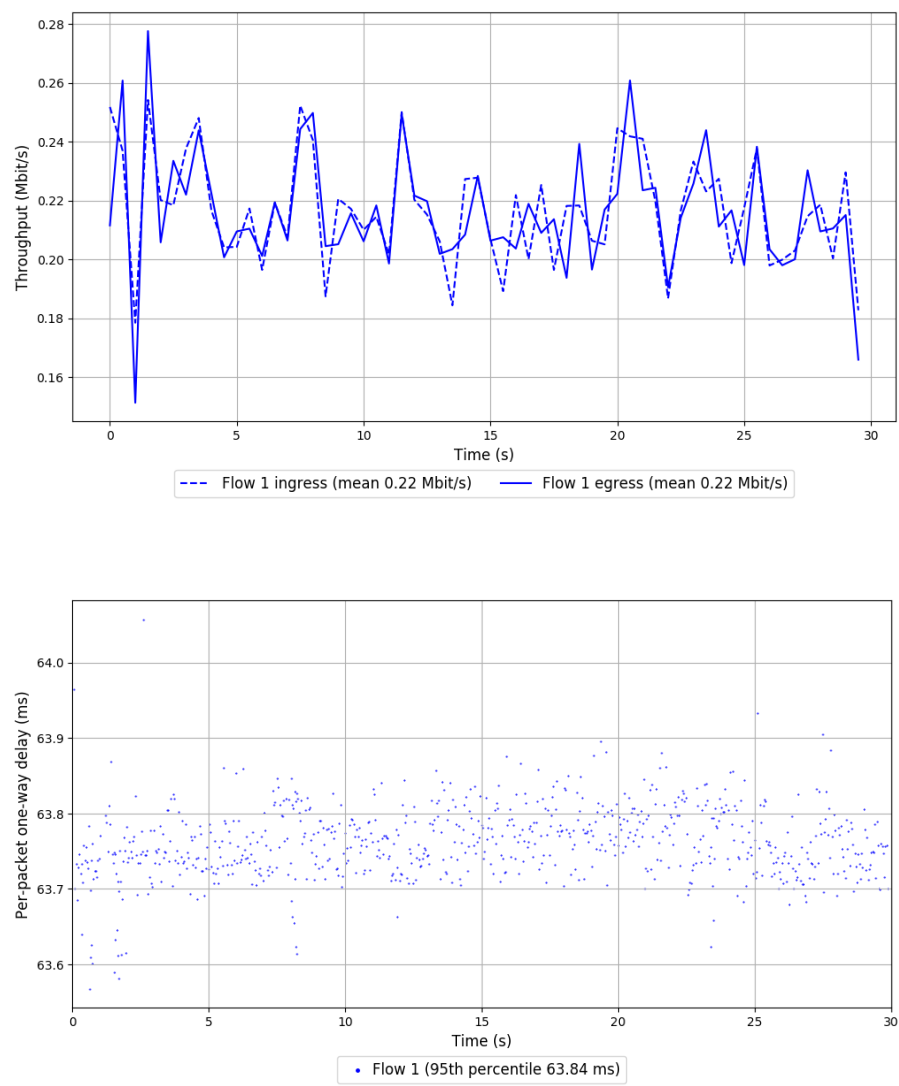
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.835 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link

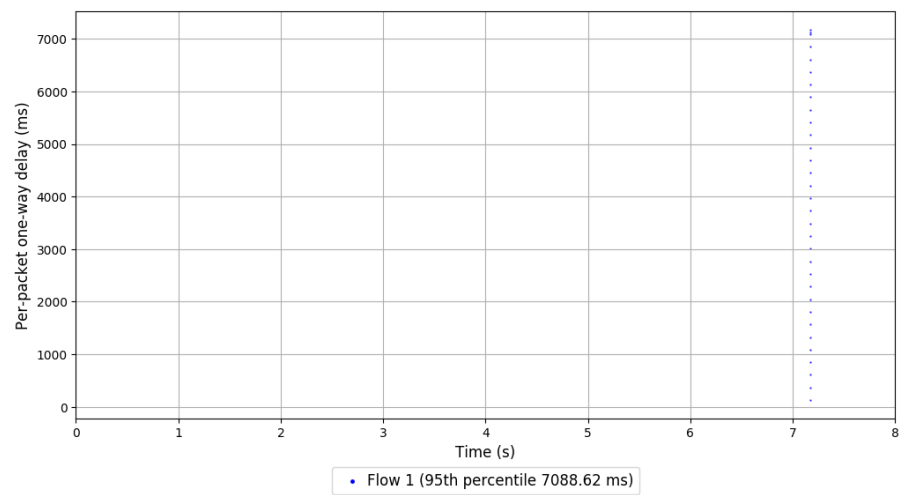
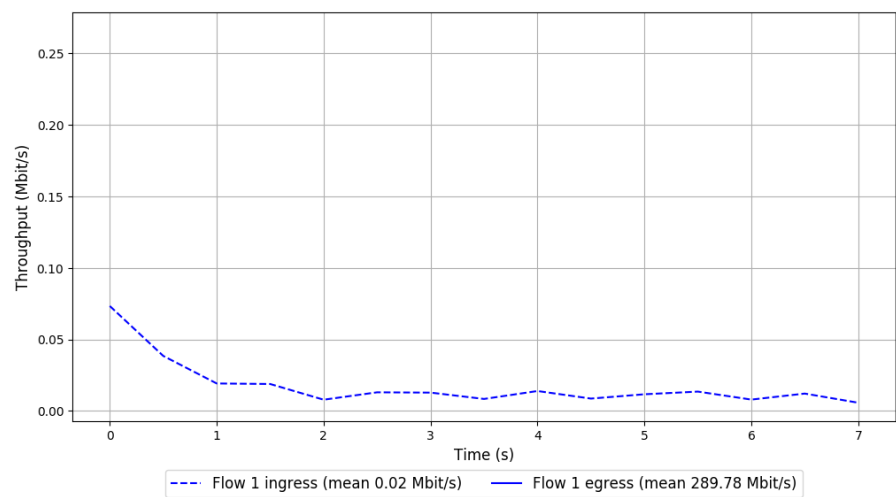


Run 10: Statistics of SCReAM

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

End at: 2017-09-21 21:23:02

Run 10: Report of SCReAM — Data Link



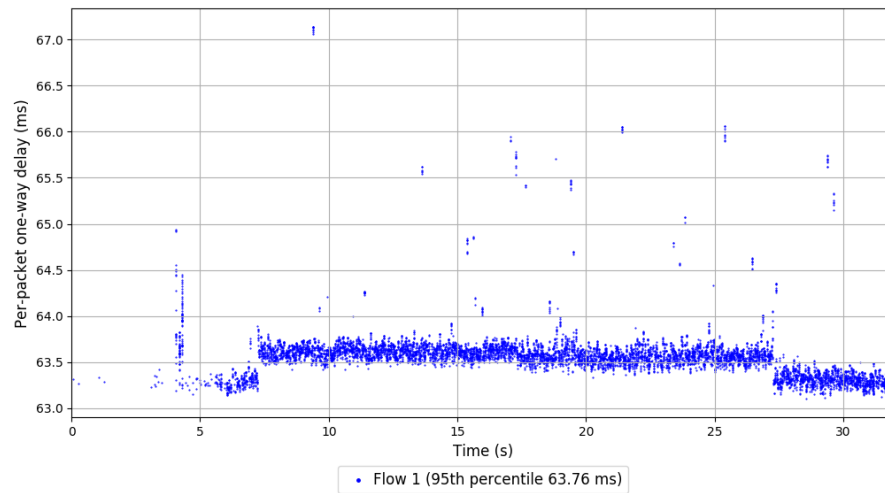
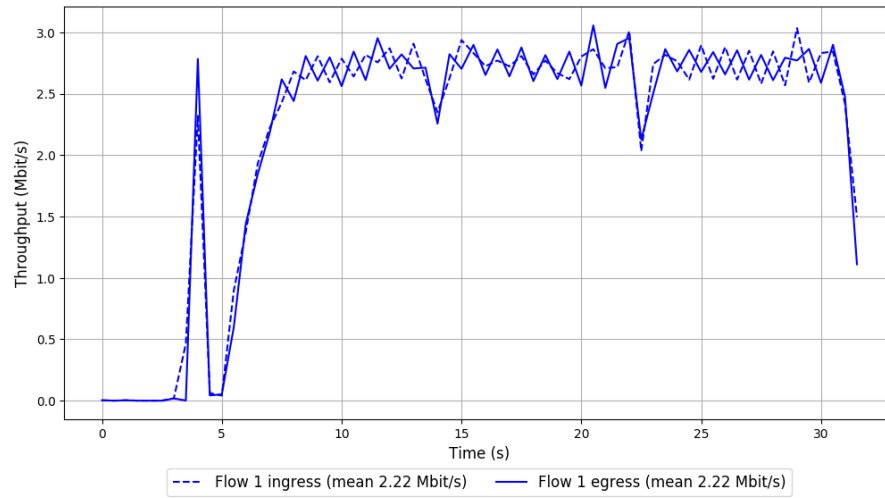
```
Run 1: Statistics of WebRTC media

Start at: 2017-09-21 19:46:56
End at: 2017-09-21 19:47:26

# Below is generated by plot.py at 2017-09-21 23:43:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 63.755 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 63.755 ms
Loss rate: 0.51%
```



# Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-09-21 19:57:25

End at: 2017-09-21 19:57:55

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 63.733 ms

Loss rate: 0.56%

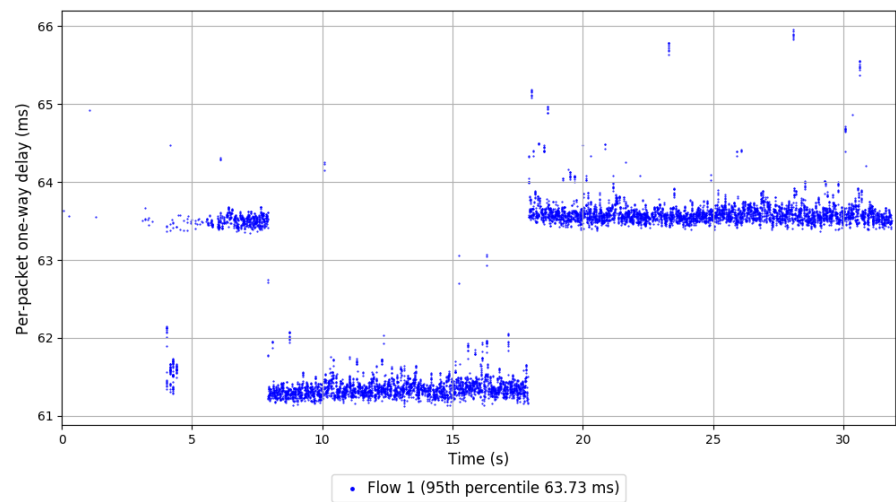
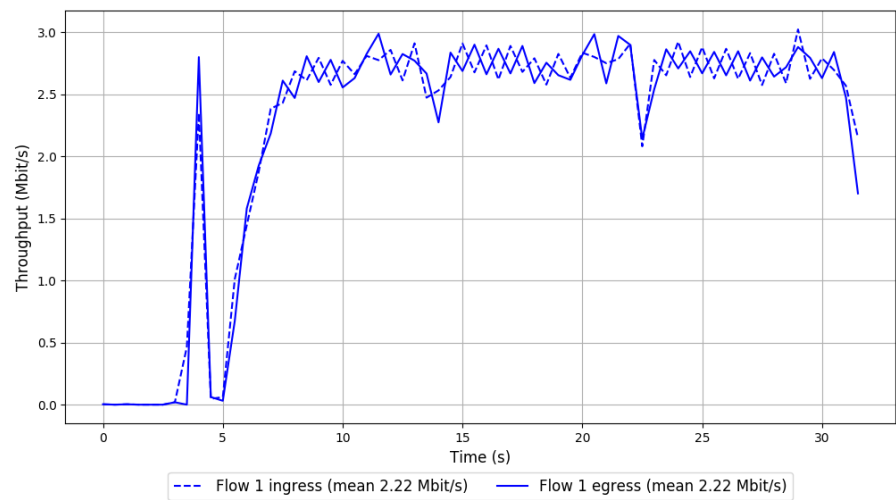
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 63.733 ms

Loss rate: 0.56%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-09-21 20:08:01

End at: 2017-09-21 20:08:31

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.861 ms

Loss rate: 0.40%

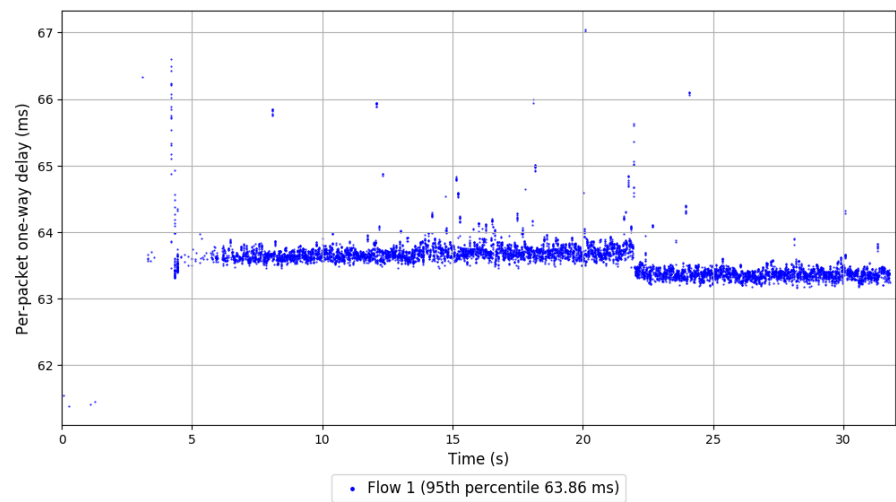
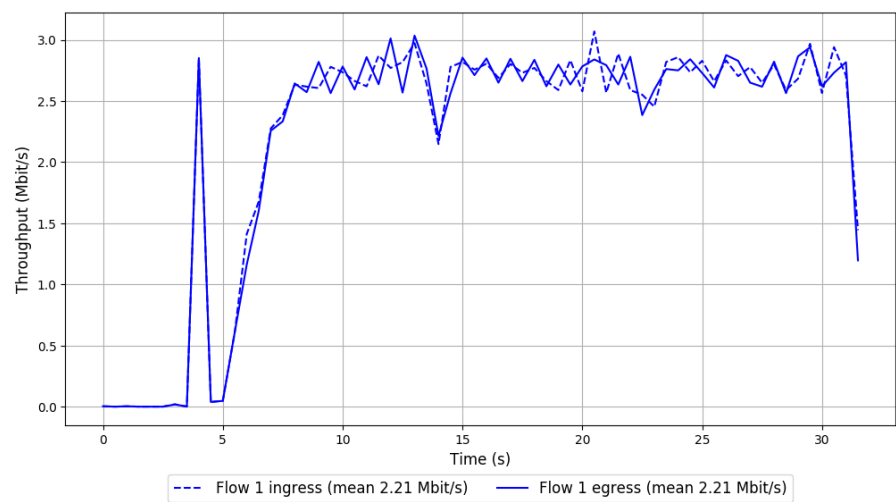
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.861 ms

Loss rate: 0.40%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-09-21 20:18:50

End at: 2017-09-21 20:19:20

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.921 ms

Loss rate: 0.44%

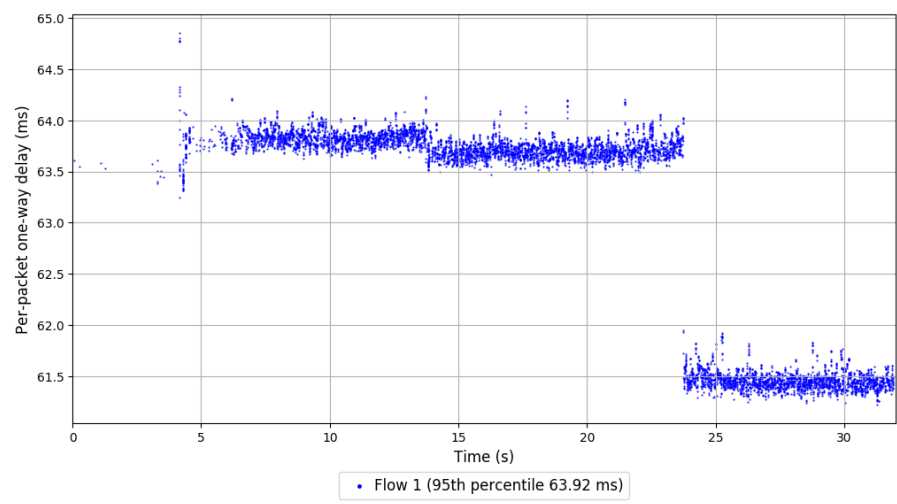
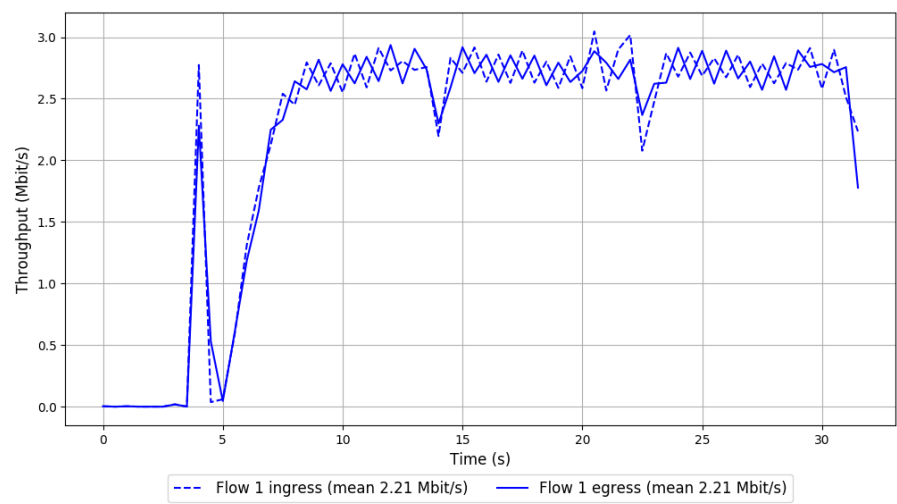
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.921 ms

Loss rate: 0.44%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

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

End at: 2017-09-21 20:29:59

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.893 ms

Loss rate: 0.44%

-- Flow 1:

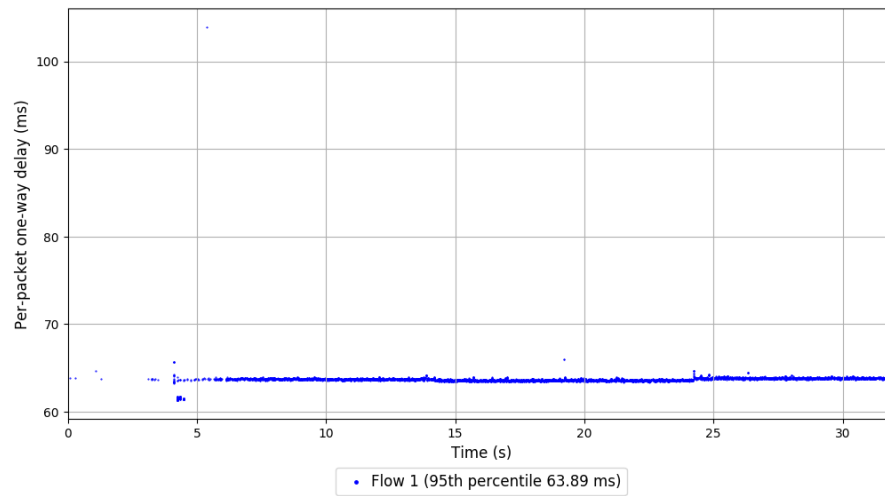
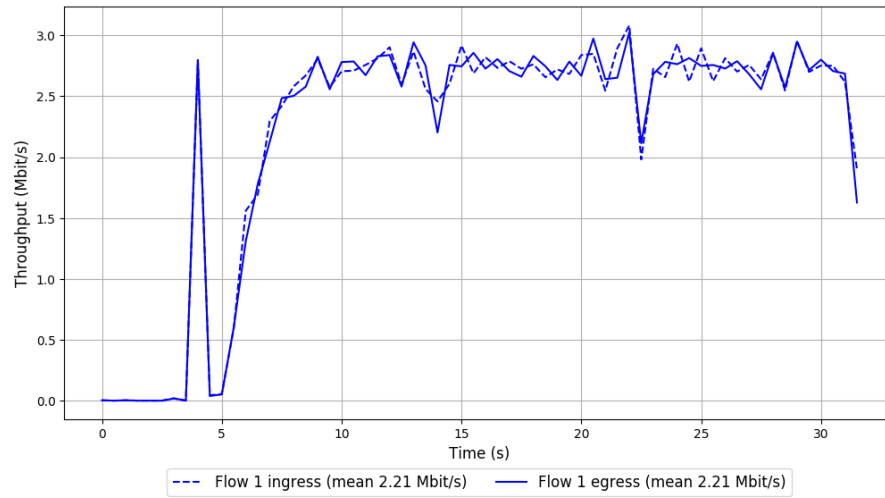
Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.893 ms

Loss rate: 0.44%



### Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-09-21 20:40:06

End at: 2017-09-21 20:40:36

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 63.635 ms

Loss rate: 0.44%

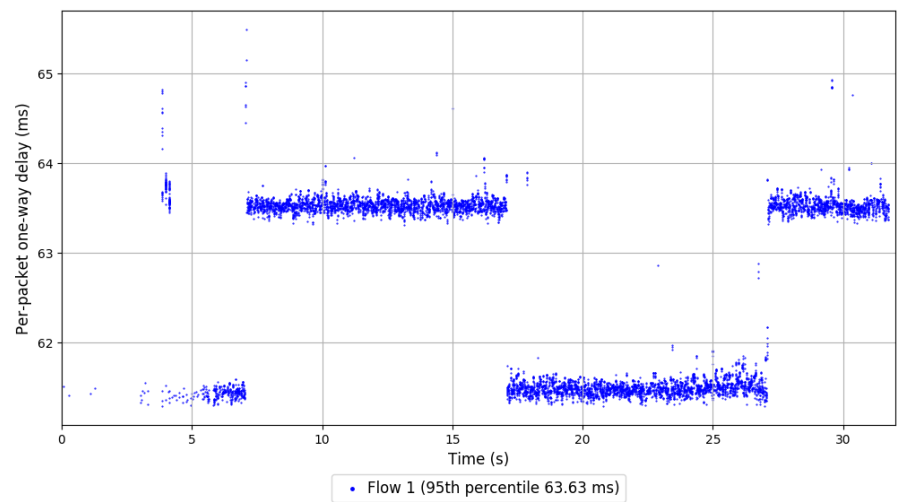
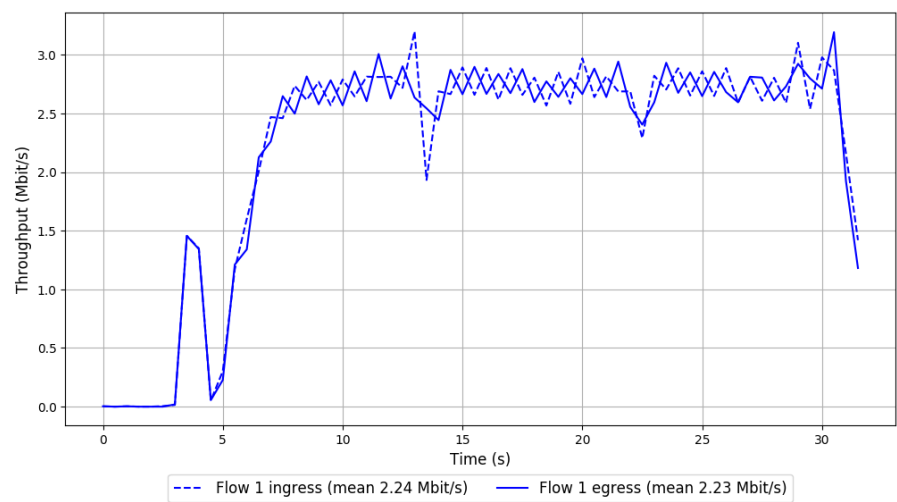
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 63.635 ms

Loss rate: 0.44%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-09-21 20:51:04

End at: 2017-09-21 20:51:34

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.699 ms

Loss rate: 0.54%

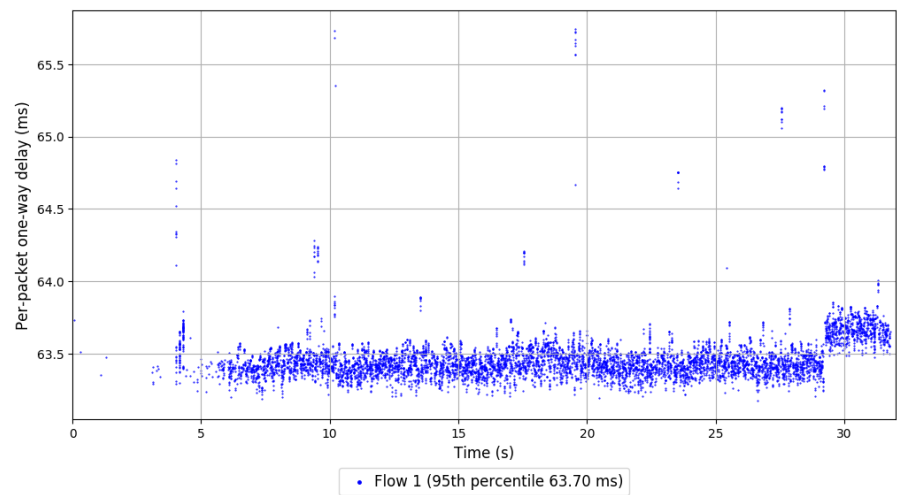
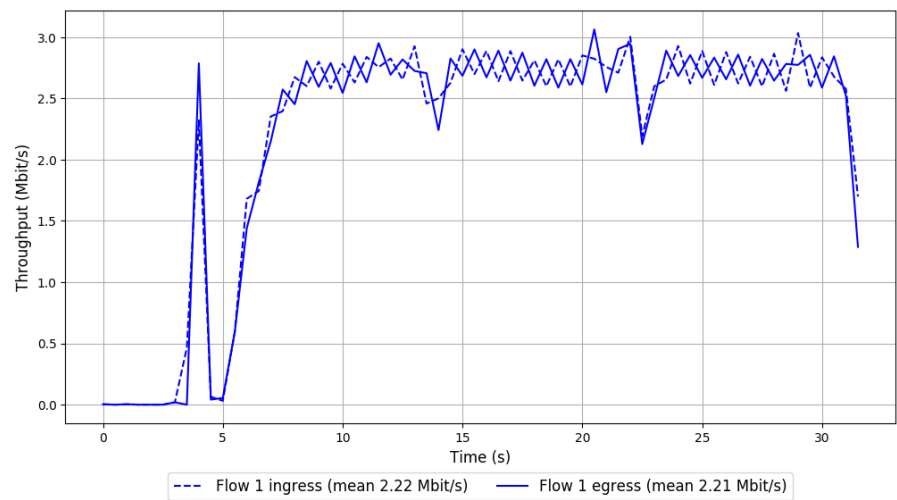
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.699 ms

Loss rate: 0.54%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-09-21 21:01:40

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

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 61.807 ms

Loss rate: 0.45%

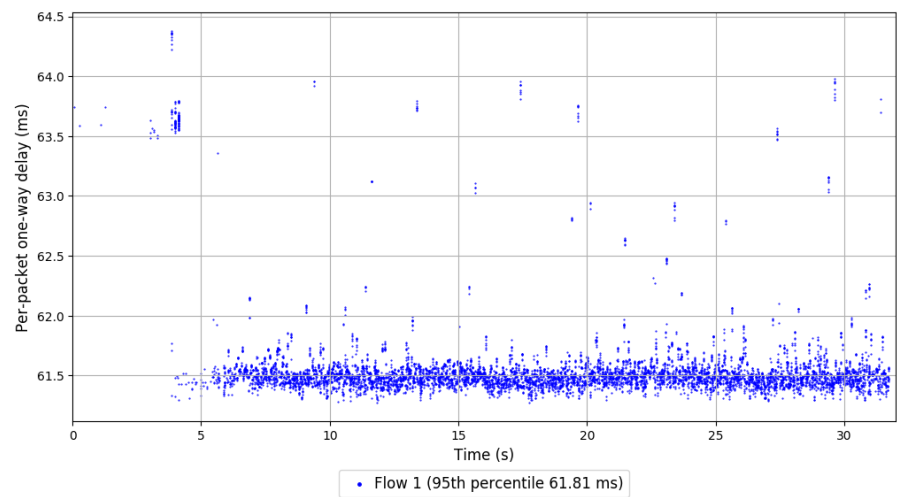
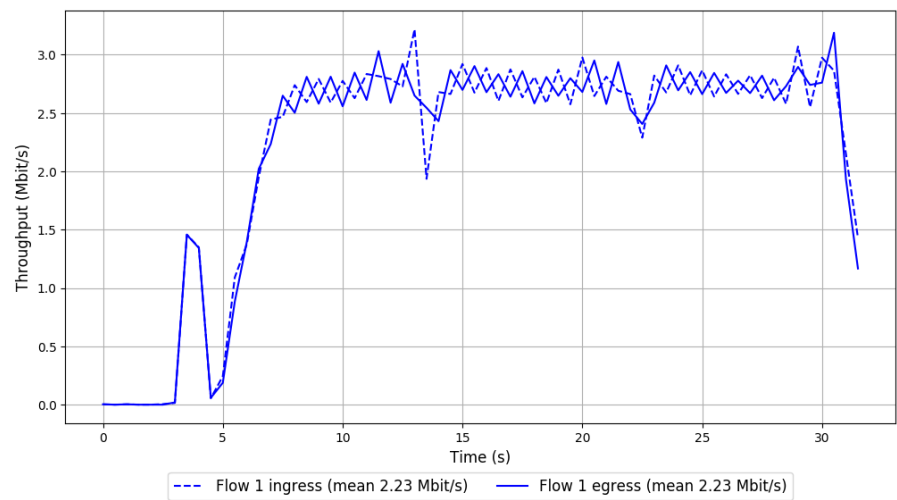
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 61.807 ms

Loss rate: 0.45%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-09-21 21:12:19

End at: 2017-09-21 21:12:49

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 63.779 ms

Loss rate: 0.44%

-- Flow 1:

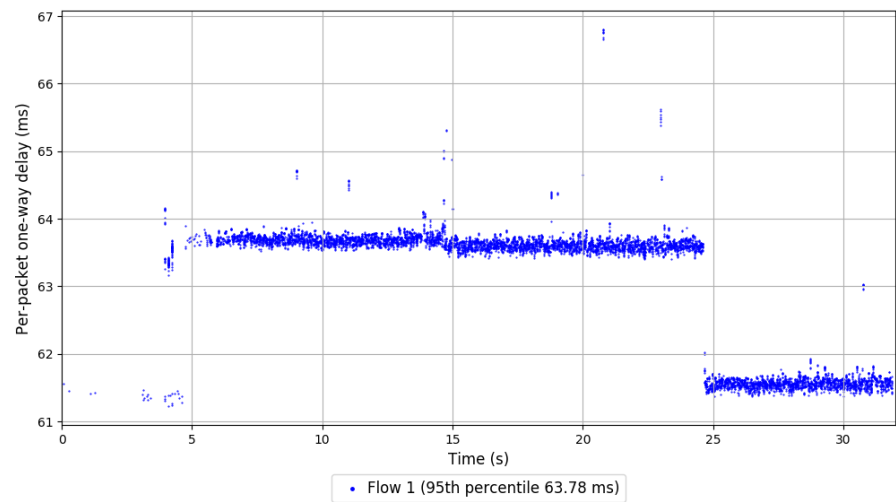
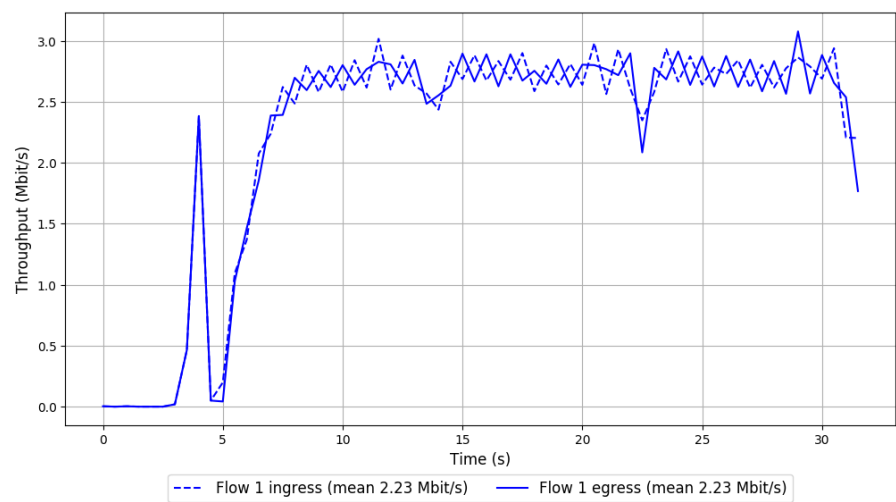
Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 63.779 ms

Loss rate: 0.44%



Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

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

End at: 2017-09-21 21:23:40

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 63.661 ms

Loss rate: 0.44%

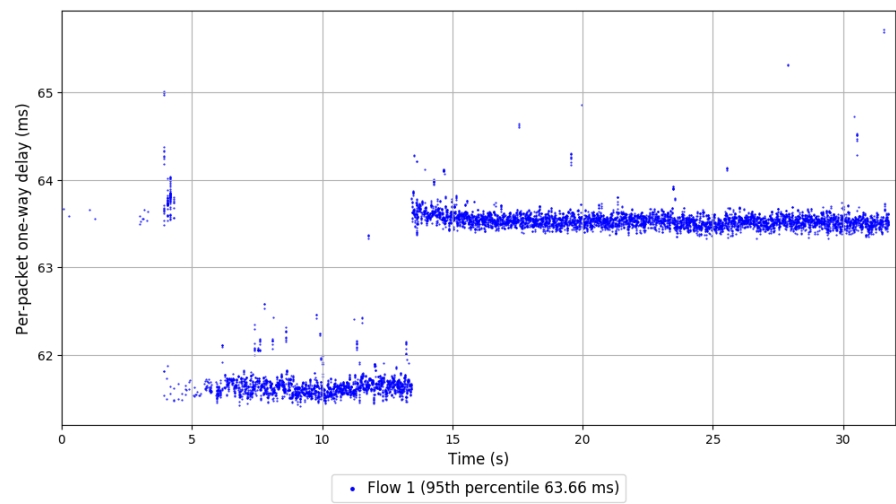
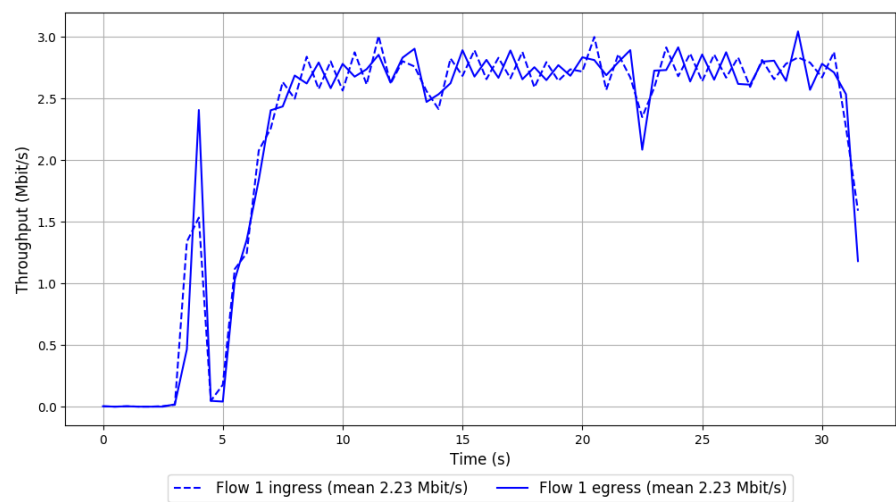
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 63.661 ms

Loss rate: 0.44%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

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

End at: 2017-09-21 19:43:52

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.28 Mbit/s

95th percentile per-packet one-way delay: 64.091 ms

Loss rate: 1.15%

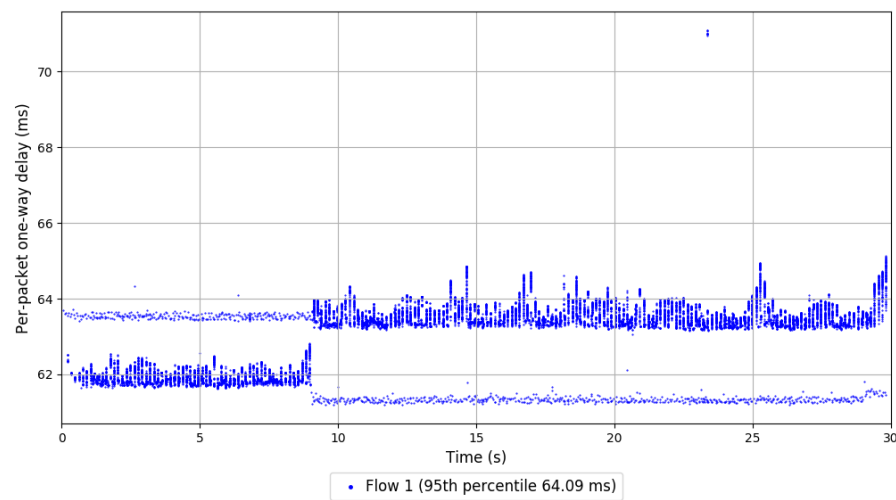
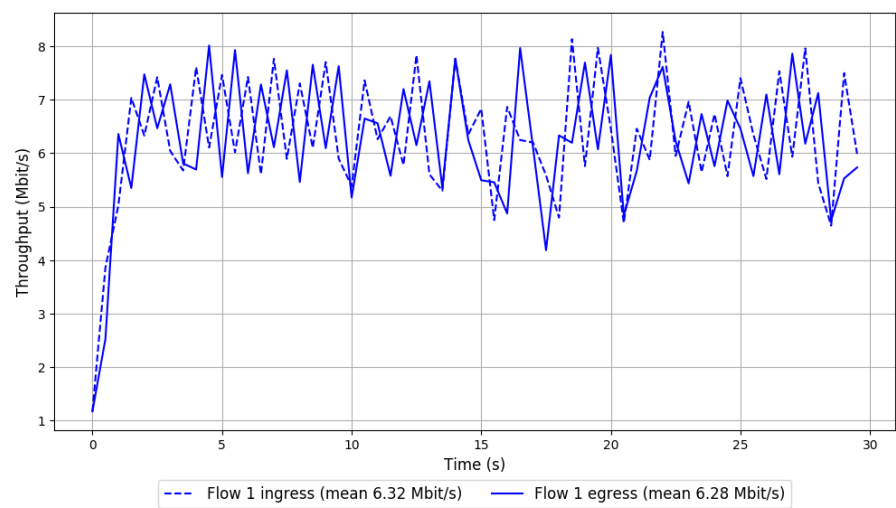
-- Flow 1:

Average throughput: 6.28 Mbit/s

95th percentile per-packet one-way delay: 64.091 ms

Loss rate: 1.15%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-09-21 19:53:52

End at: 2017-09-21 19:54:22

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.55 Mbit/s

95th percentile per-packet one-way delay: 64.457 ms

Loss rate: 0.74%

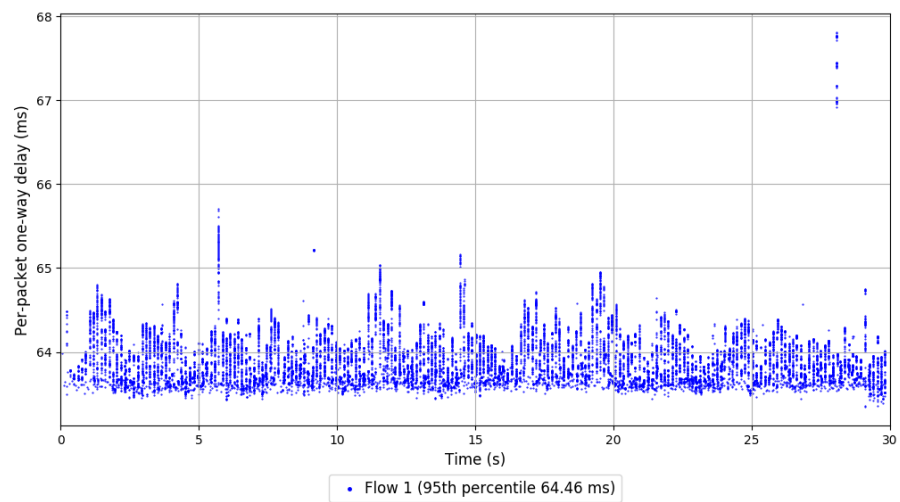
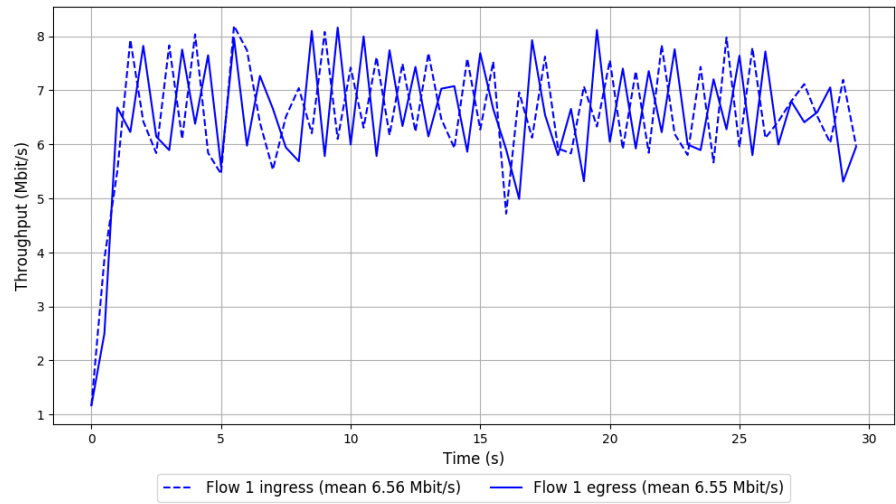
-- Flow 1:

Average throughput: 6.55 Mbit/s

95th percentile per-packet one-way delay: 64.457 ms

Loss rate: 0.74%

## Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-09-21 20:04:28

End at: 2017-09-21 20:04:58

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.50 Mbit/s

95th percentile per-packet one-way delay: 64.708 ms

Loss rate: 0.99%

-- Flow 1:

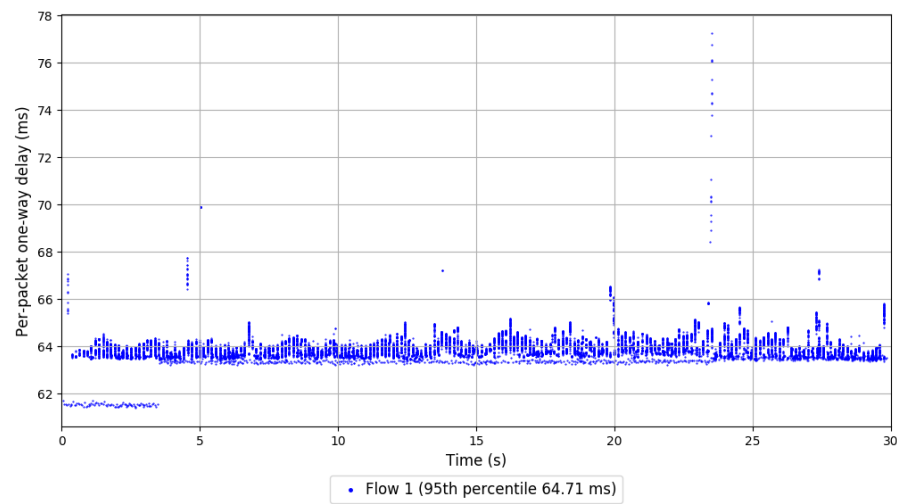
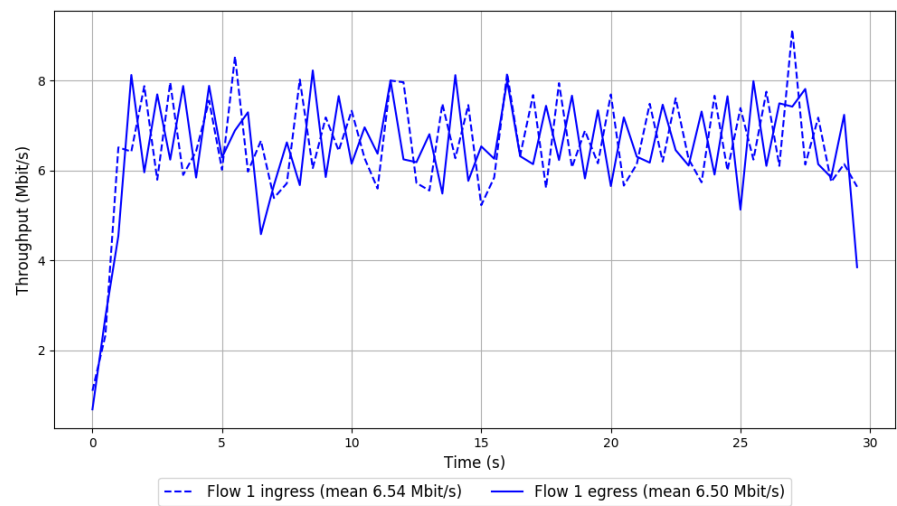
Average throughput: 6.50 Mbit/s

95th percentile per-packet one-way delay: 64.708 ms

Loss rate: 0.99%



Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-09-21 20:15:17

End at: 2017-09-21 20:15:47

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.37 Mbit/s

95th percentile per-packet one-way delay: 64.721 ms

Loss rate: 1.21%

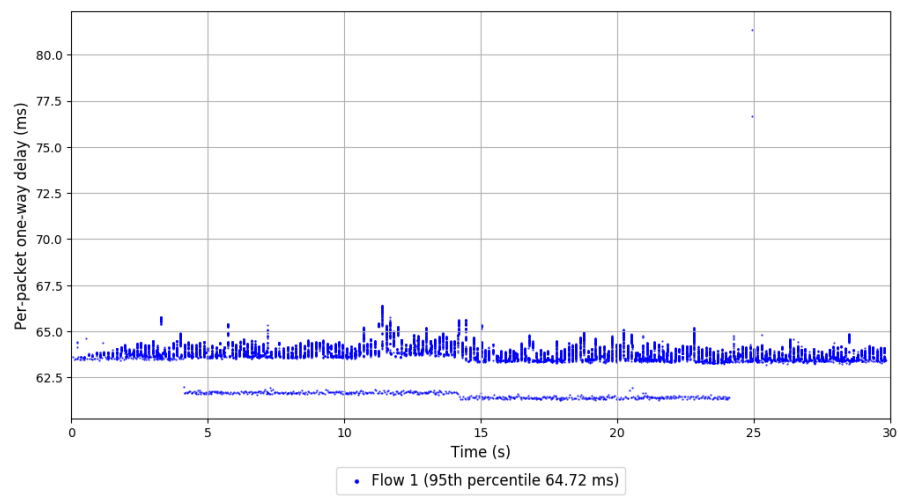
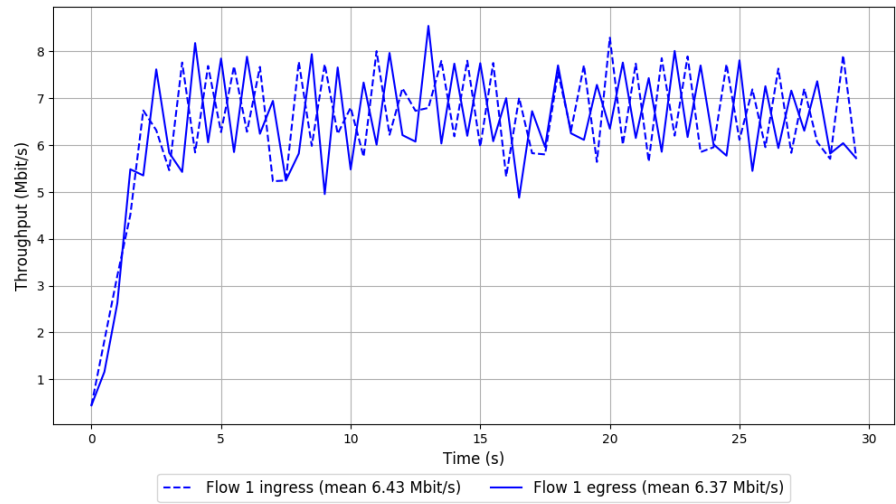
-- Flow 1:

Average throughput: 6.37 Mbit/s

95th percentile per-packet one-way delay: 64.721 ms

Loss rate: 1.21%

#### Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-09-21 20:25:56

End at: 2017-09-21 20:26:26

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 63.709 ms

Loss rate: 0.79%

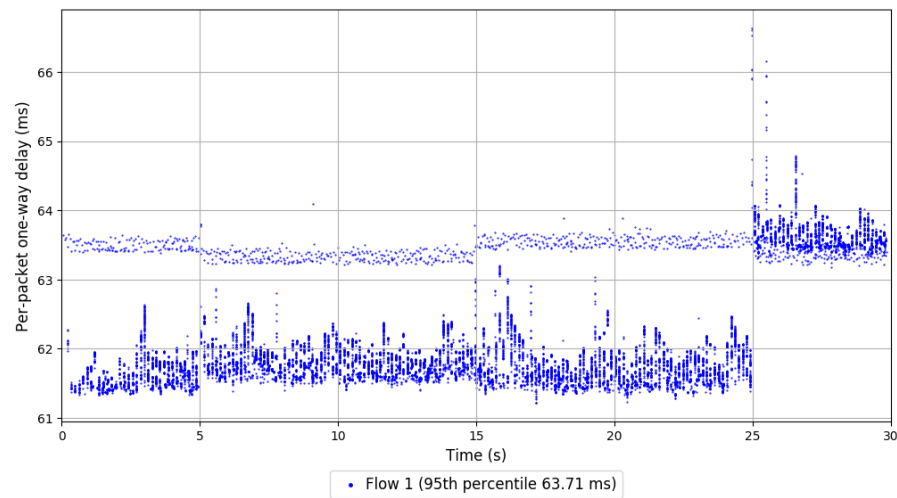
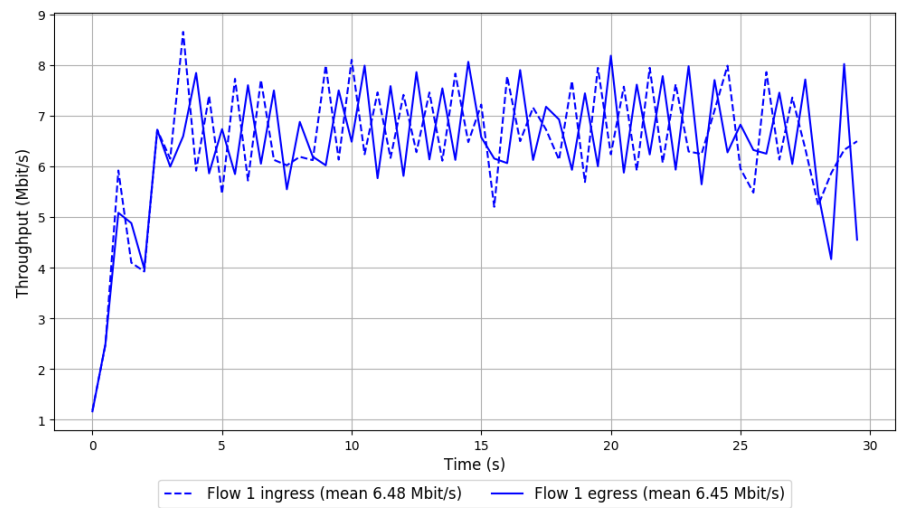
-- Flow 1:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 63.709 ms

Loss rate: 0.79%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-09-21 20:36:32

End at: 2017-09-21 20:37:02

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.64 Mbit/s

95th percentile per-packet one-way delay: 63.527 ms

Loss rate: 0.83%

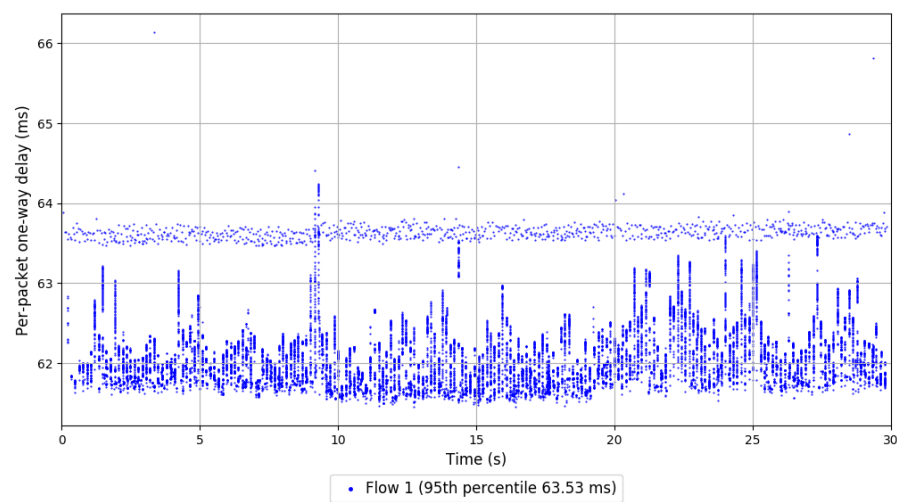
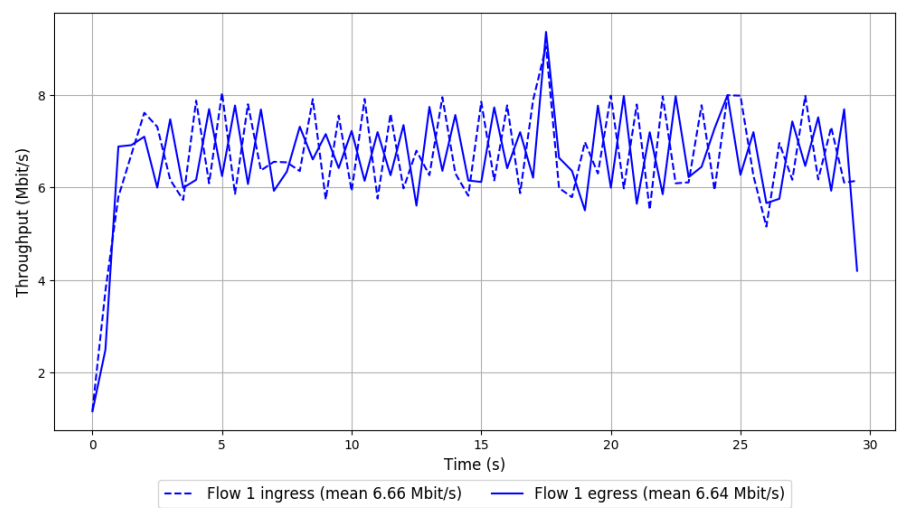
-- Flow 1:

Average throughput: 6.64 Mbit/s

95th percentile per-packet one-way delay: 63.527 ms

Loss rate: 0.83%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-09-21 20:47:30

End at: 2017-09-21 20:48:00

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.51 Mbit/s

95th percentile per-packet one-way delay: 64.297 ms

Loss rate: 0.27%

-- Flow 1:

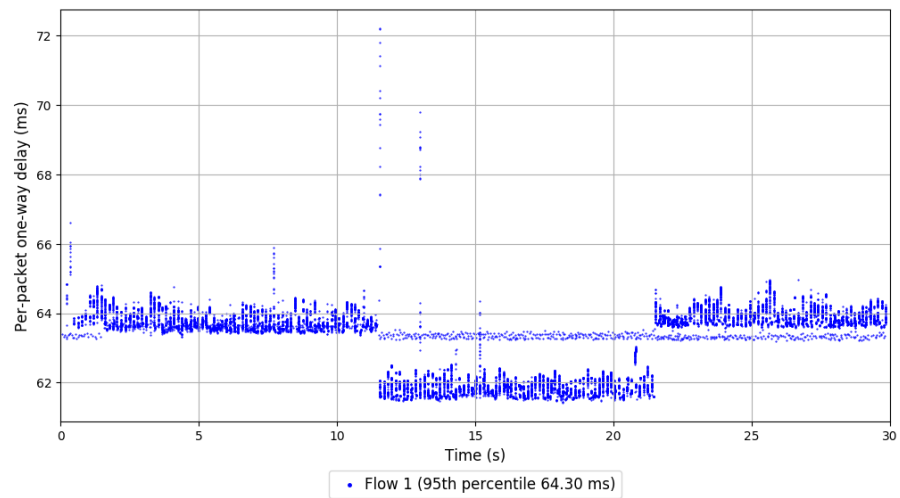
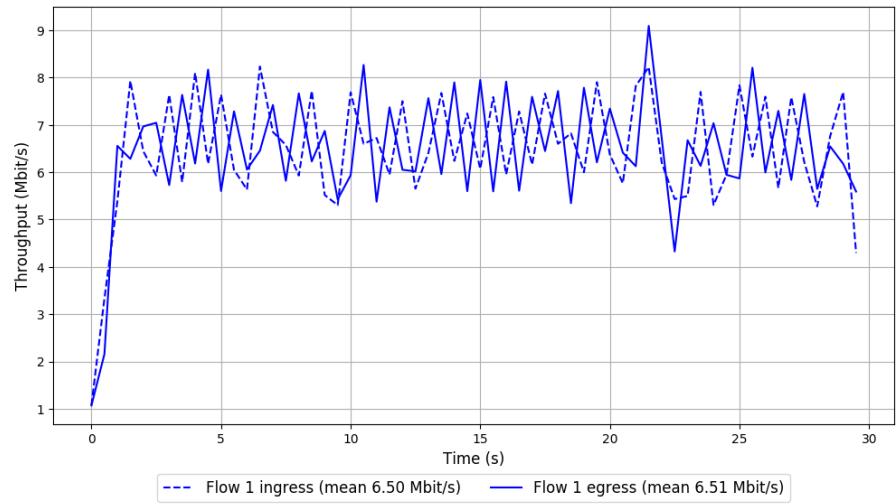
Average throughput: 6.51 Mbit/s

95th percentile per-packet one-way delay: 64.297 ms

Loss rate: 0.27%



## Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-09-21 20:58:07

End at: 2017-09-21 20:58:37

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 64.355 ms

Loss rate: 0.67%

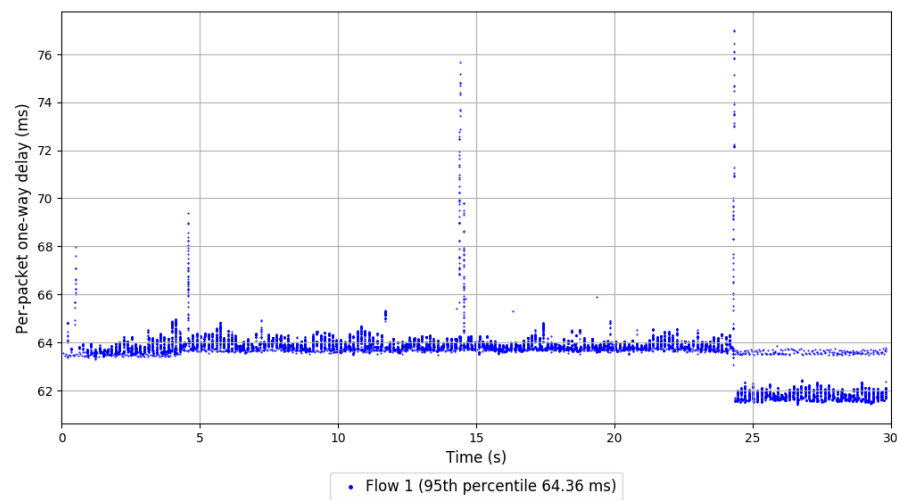
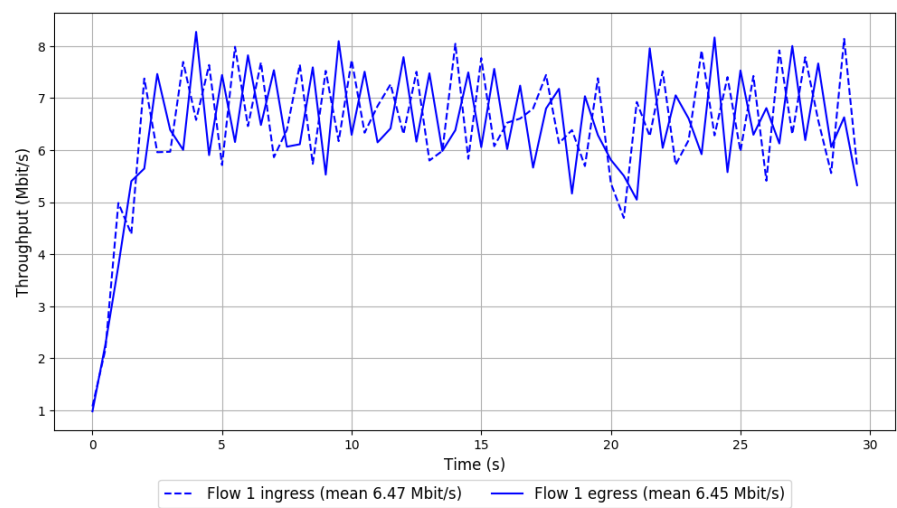
-- Flow 1:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 64.355 ms

Loss rate: 0.67%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-09-21 21:08:46

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

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.31 Mbit/s

95th percentile per-packet one-way delay: 64.556 ms

Loss rate: 1.15%

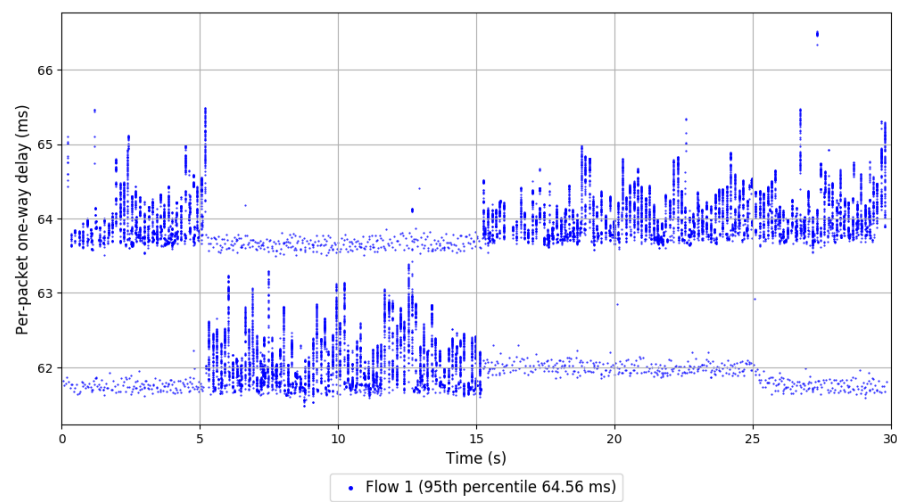
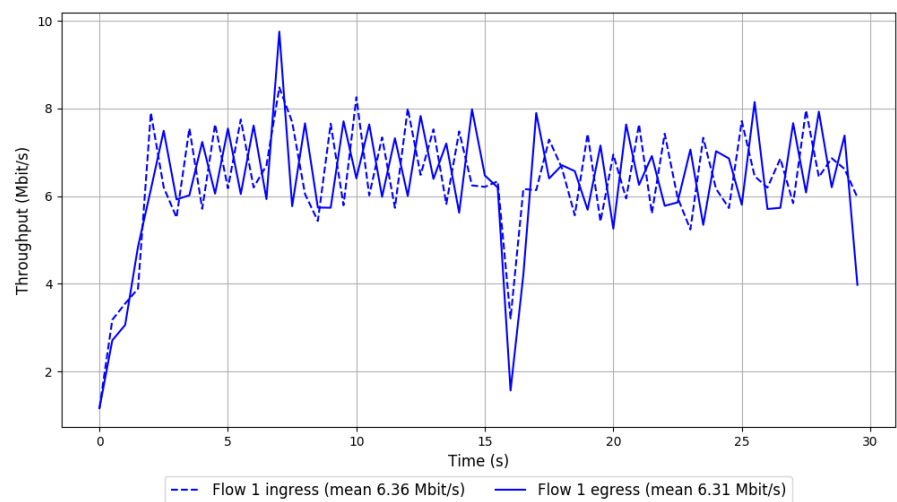
-- Flow 1:

Average throughput: 6.31 Mbit/s

95th percentile per-packet one-way delay: 64.556 ms

Loss rate: 1.15%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

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

End at: 2017-09-21 21:20:06

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.51 Mbit/s

95th percentile per-packet one-way delay: 64.323 ms

Loss rate: 0.93%

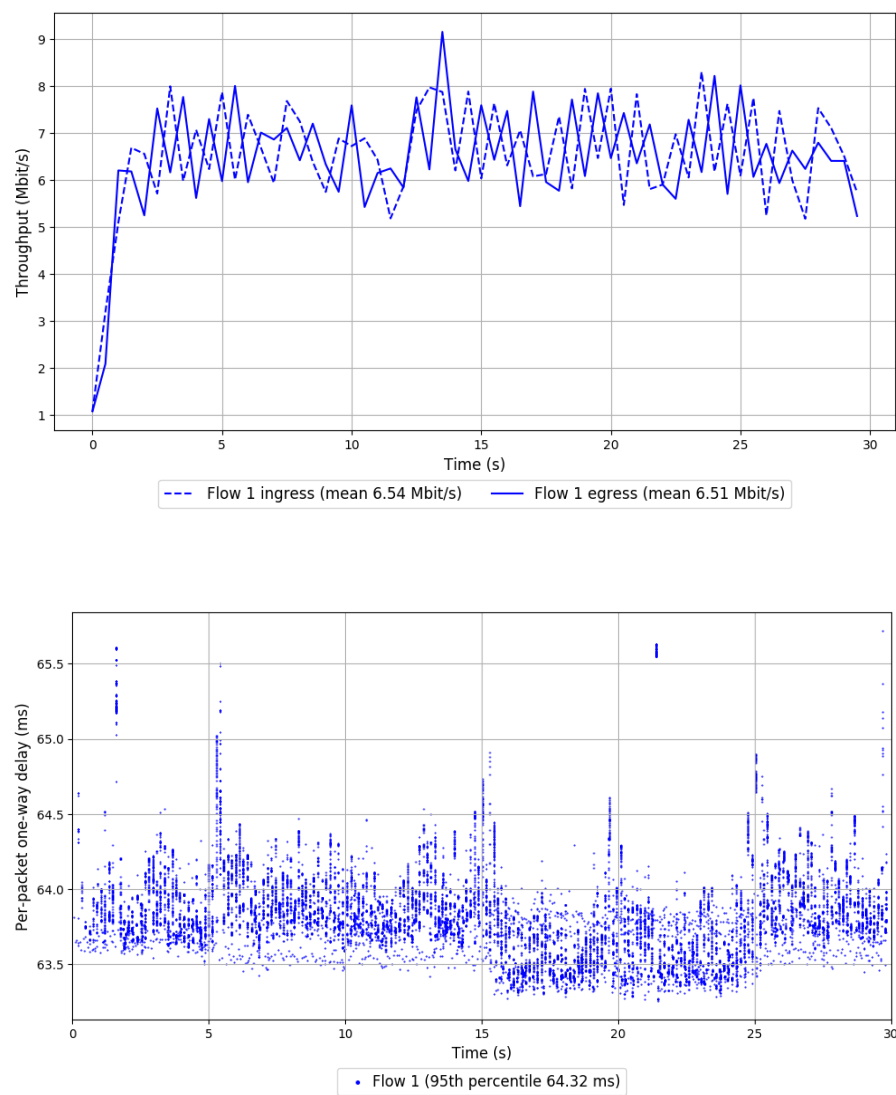
-- Flow 1:

Average throughput: 6.51 Mbit/s

95th percentile per-packet one-way delay: 64.323 ms

Loss rate: 0.93%

Run 10: Report of Sprout — Data Link



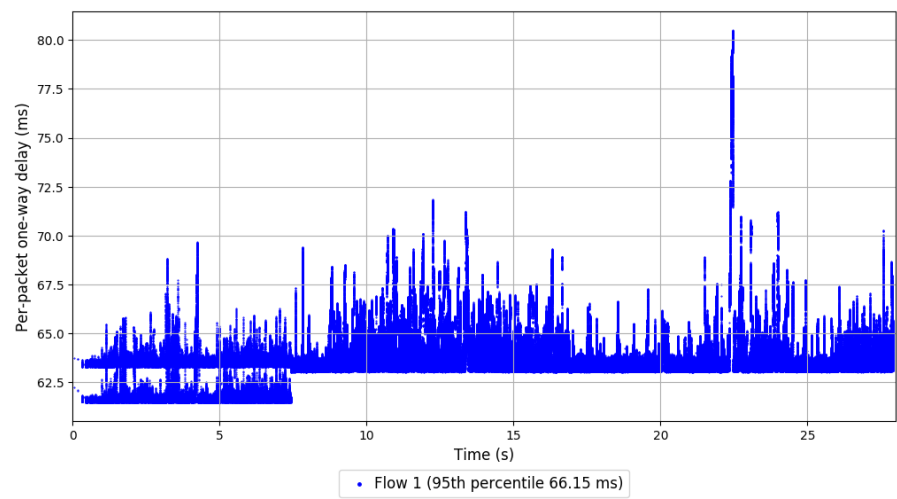
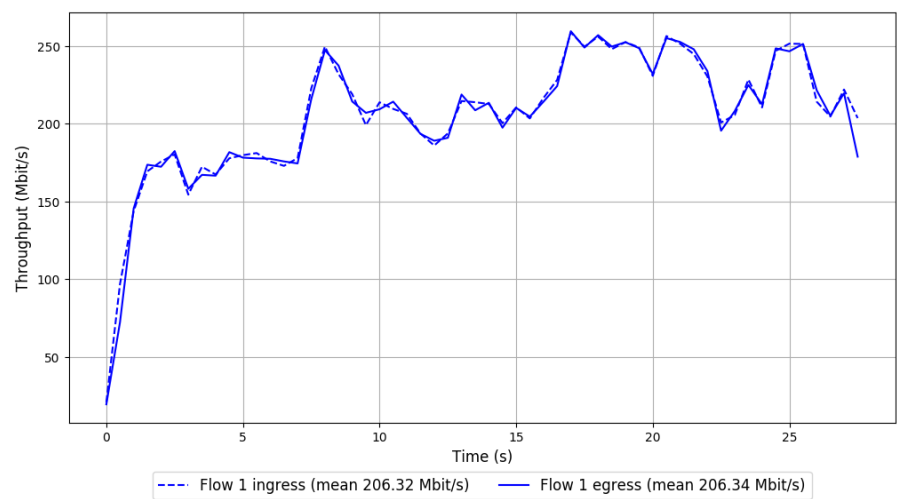
```
Run 1: Statistics of TaoVA-100x

Start at: 2017-09-21 19:40:52
End at: 2017-09-21 19:41:22

# Below is generated by plot.py at 2017-09-21 23:43:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 206.34 Mbit/s
95th percentile per-packet one-way delay: 66.149 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 206.34 Mbit/s
95th percentile per-packet one-way delay: 66.149 ms
Loss rate: 0.45%
```



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

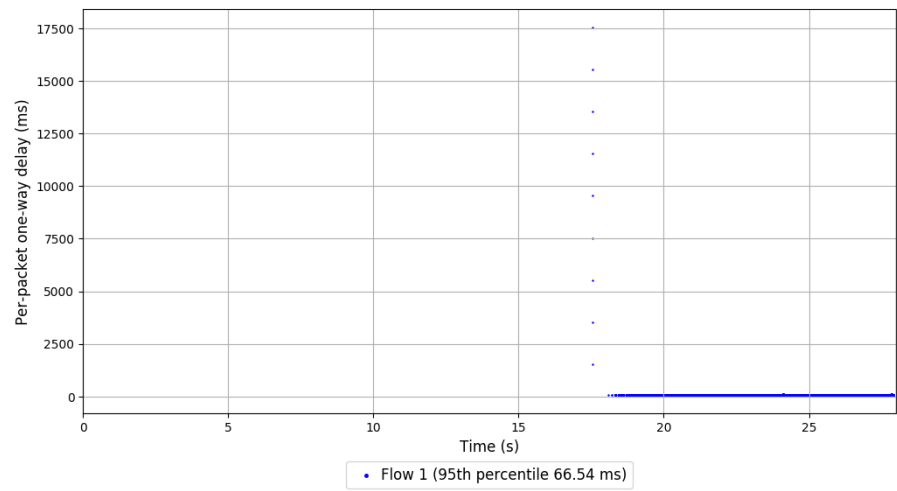
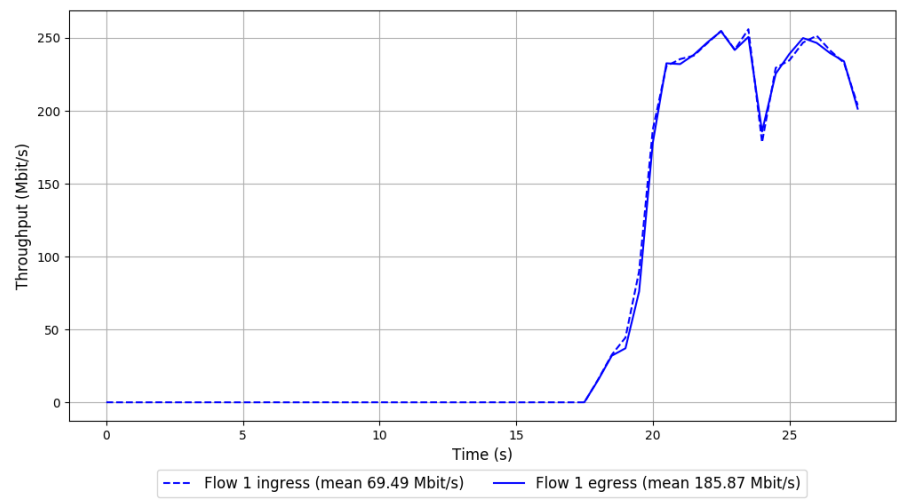


Run 2: Statistics of TaoVA-100x

Start at: 2017-09-21 19:51:34

End at: 2017-09-21 19:52:04

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-09-21 20:01:59

End at: 2017-09-21 20:02:29

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 186.93 Mbit/s

95th percentile per-packet one-way delay: 65.432 ms

Loss rate: 0.44%

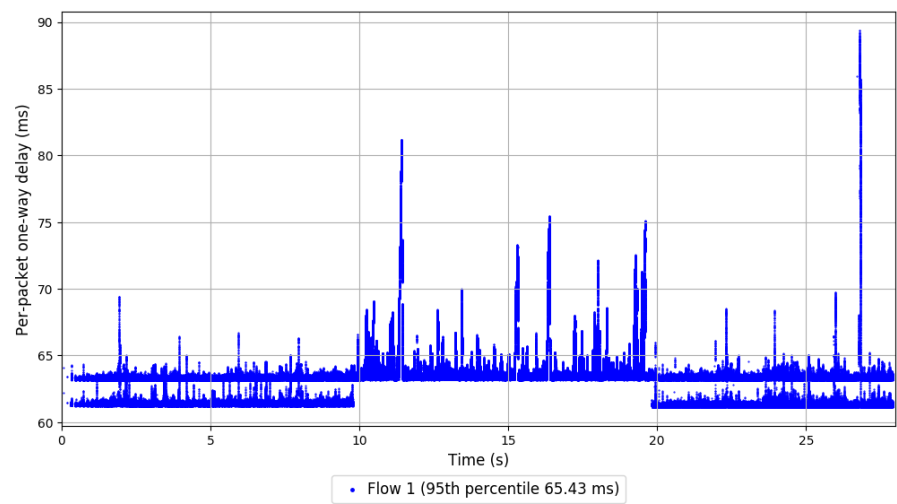
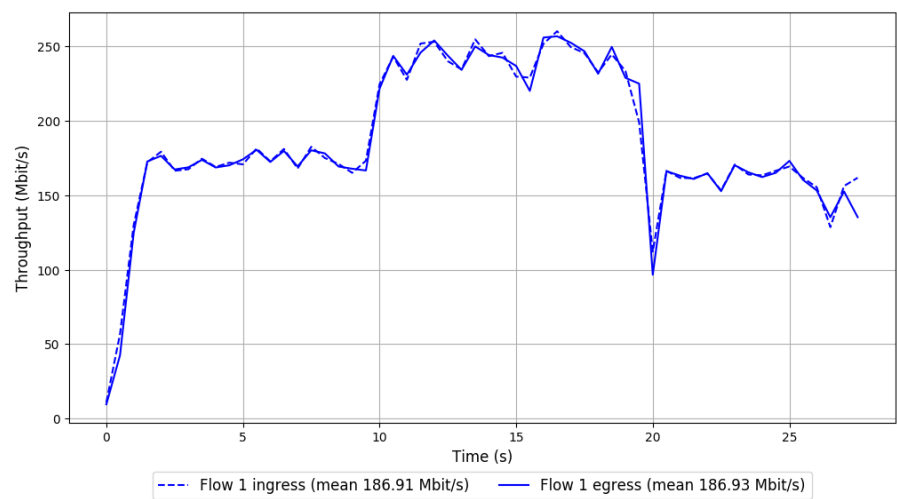
-- Flow 1:

Average throughput: 186.93 Mbit/s

95th percentile per-packet one-way delay: 65.432 ms

Loss rate: 0.44%

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

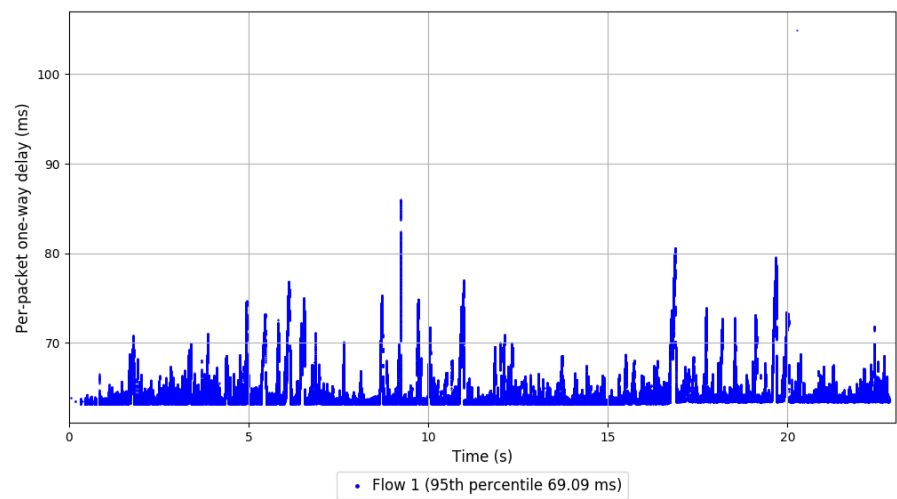
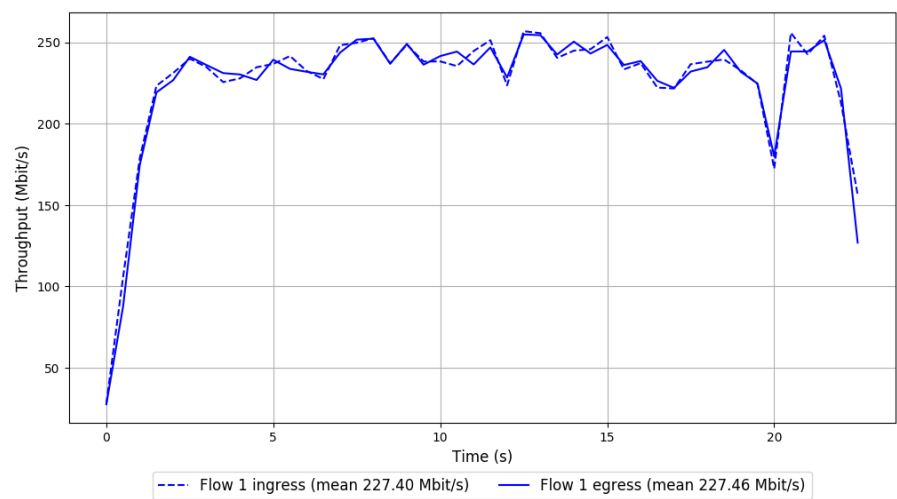


Run 4: Statistics of TaoVA-100x

Start at: 2017-09-21 20:12:47

End at: 2017-09-21 20:13:17

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-09-21 20:23:34

End at: 2017-09-21 20:24:04

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 111.97 Mbit/s

95th percentile per-packet one-way delay: 64.026 ms

Loss rate: 0.36%

-- Flow 1:

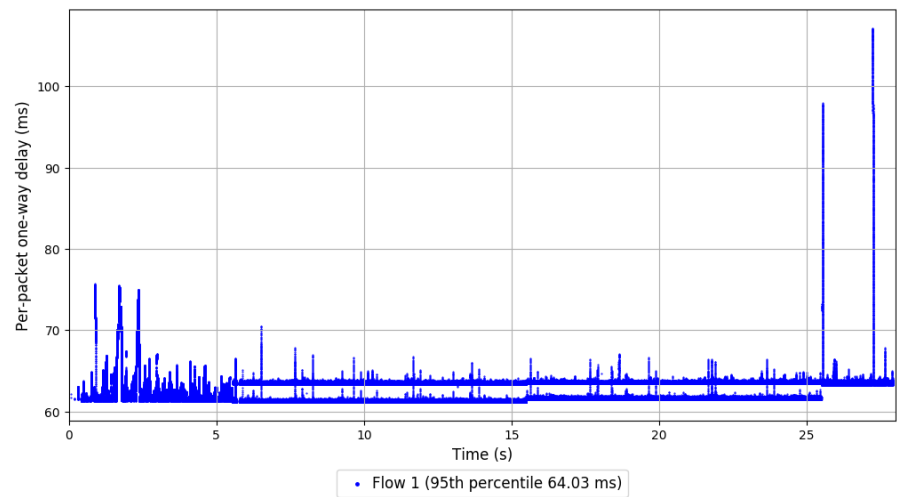
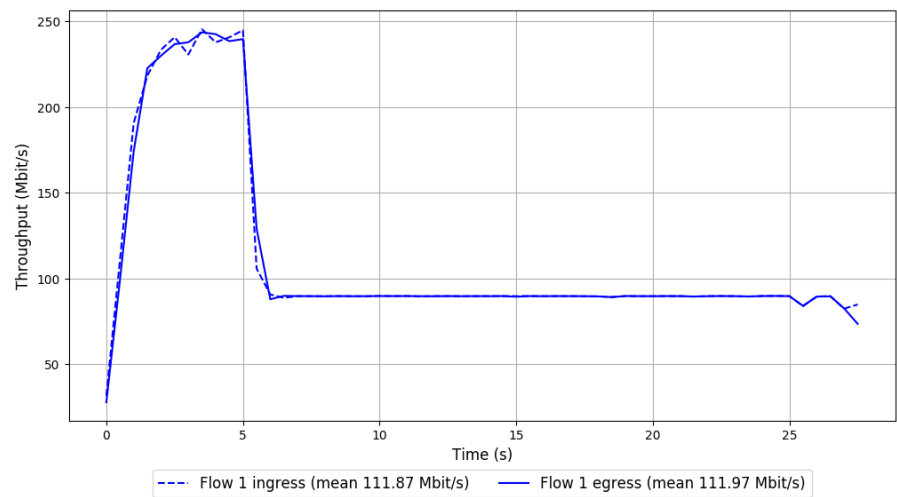
Average throughput: 111.97 Mbit/s

95th percentile per-packet one-way delay: 64.026 ms

Loss rate: 0.36%



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



Run 6: Statistics of TaoVA-100x

Start at: 2017-09-21 20:34:06

End at: 2017-09-21 20:34:36

# Below is generated by plot.py at 2017-09-21 23:43:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 182.75 Mbit/s

95th percentile per-packet one-way delay: 66.563 ms

Loss rate: 0.58%

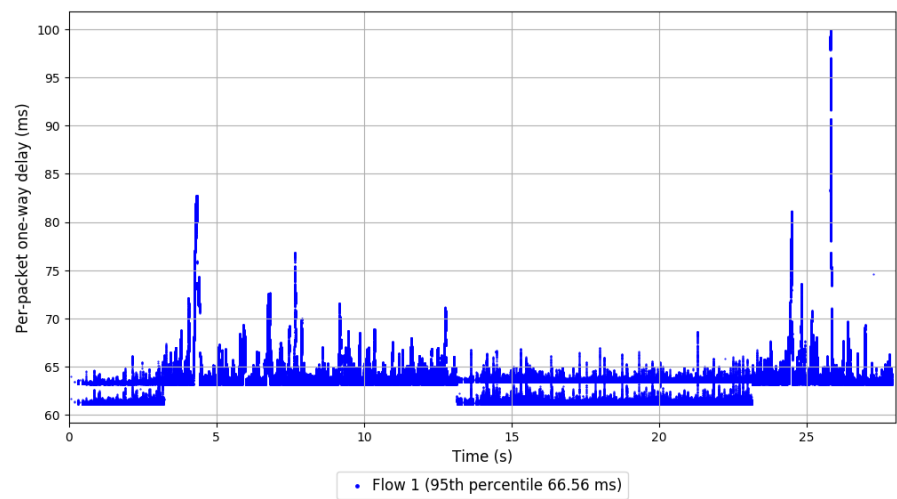
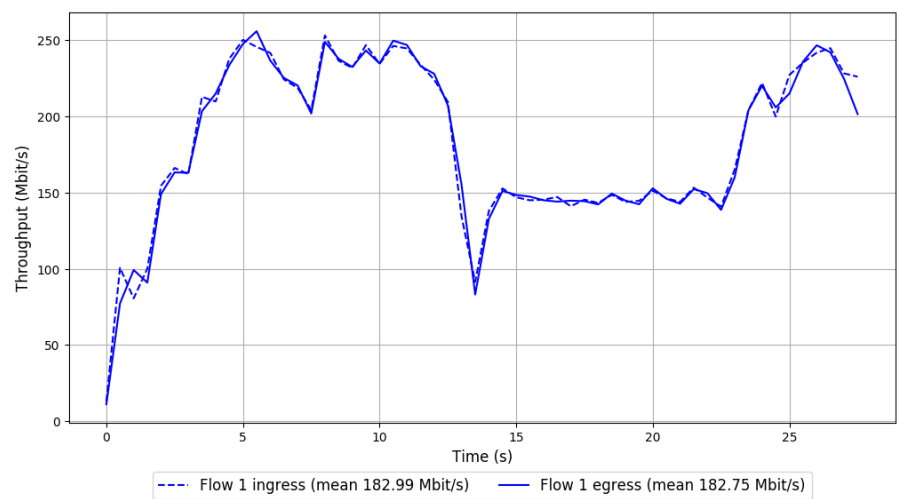
-- Flow 1:

Average throughput: 182.75 Mbit/s

95th percentile per-packet one-way delay: 66.563 ms

Loss rate: 0.58%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-09-21 20:44:57

End at: 2017-09-21 20:45:27

# Below is generated by plot.py at 2017-09-21 23:44:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 214.04 Mbit/s

95th percentile per-packet one-way delay: 71.497 ms

Loss rate: 0.36%

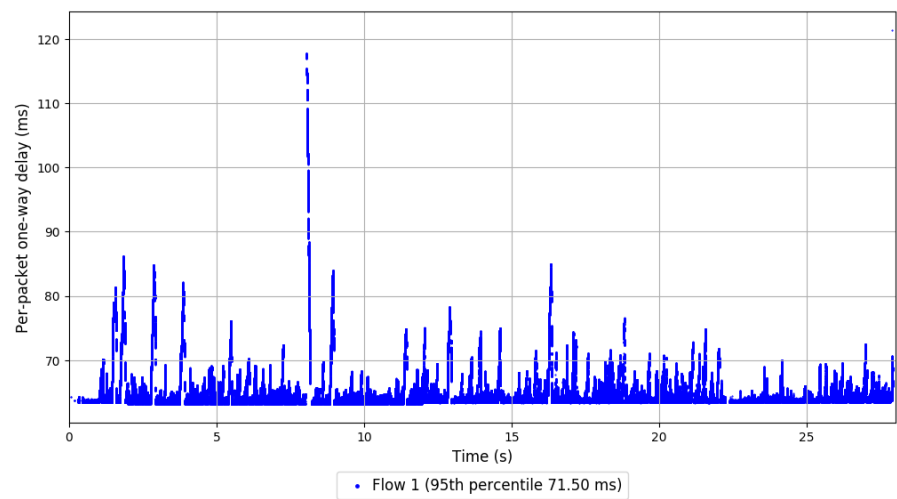
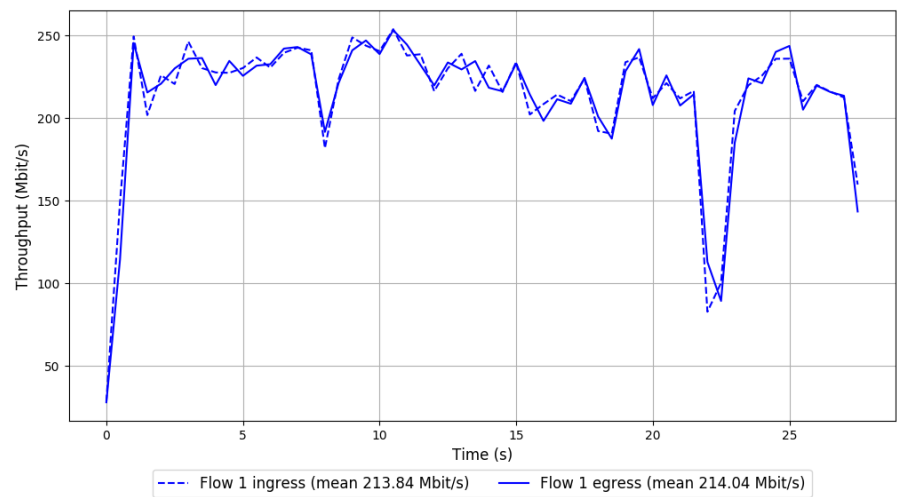
-- Flow 1:

Average throughput: 214.04 Mbit/s

95th percentile per-packet one-way delay: 71.497 ms

Loss rate: 0.36%

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

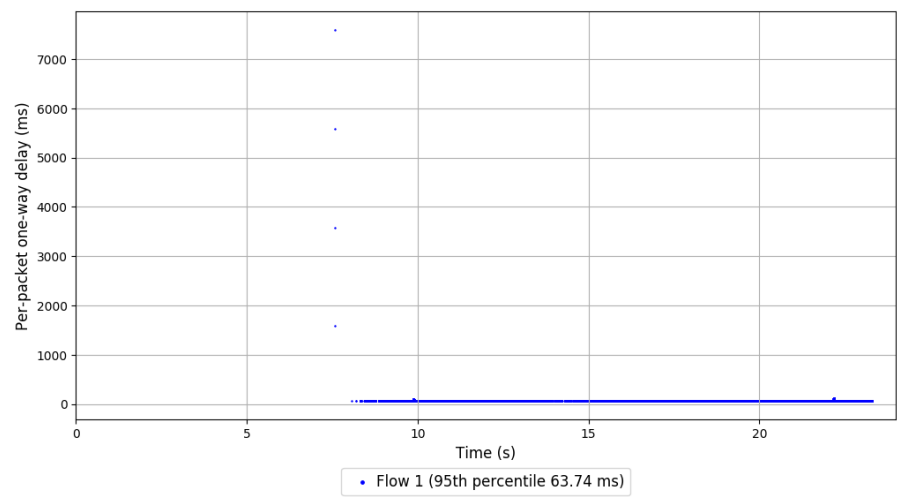
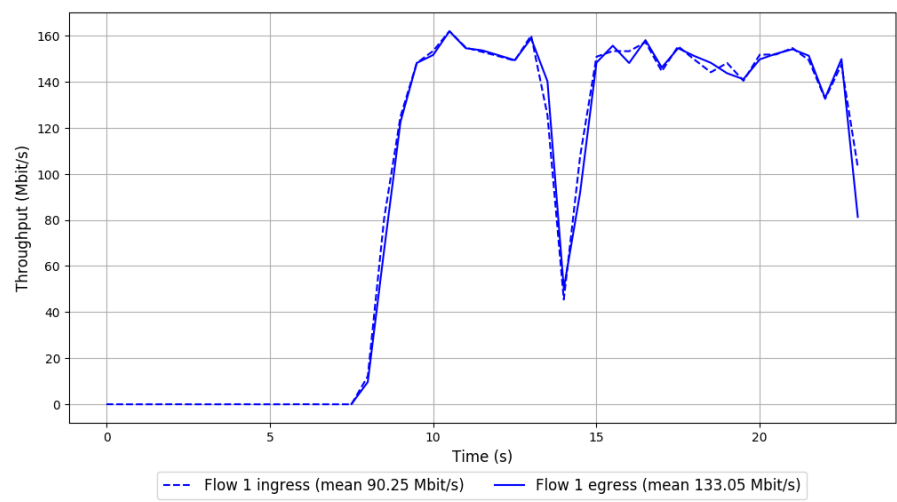


Run 8: Statistics of TaoVA-100x

Start at: 2017-09-21 20:55:48

End at: 2017-09-21 20:56:18

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



Run 9: Statistics of TaoVA-100x

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

End at: 2017-09-21 21:06:53

# Below is generated by plot.py at 2017-09-21 23:45:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 160.55 Mbit/s

95th percentile per-packet one-way delay: 63.877 ms

Loss rate: 0.44%

-- Flow 1:

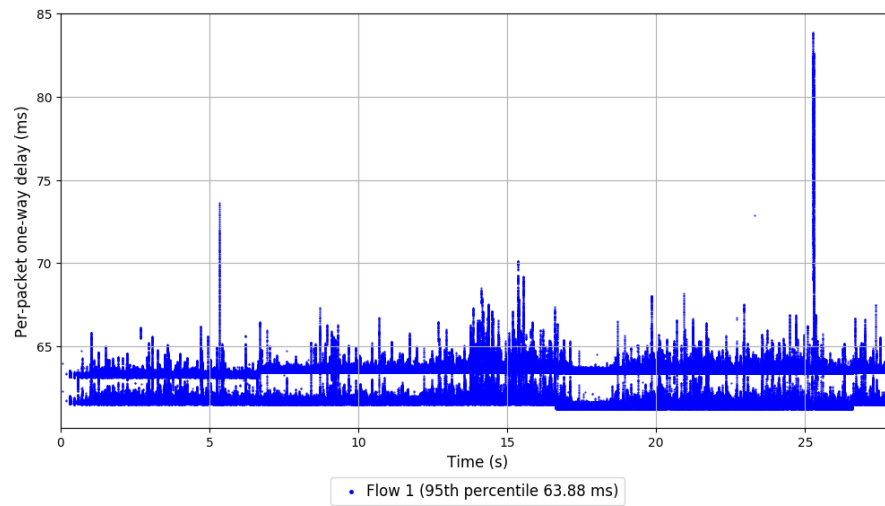
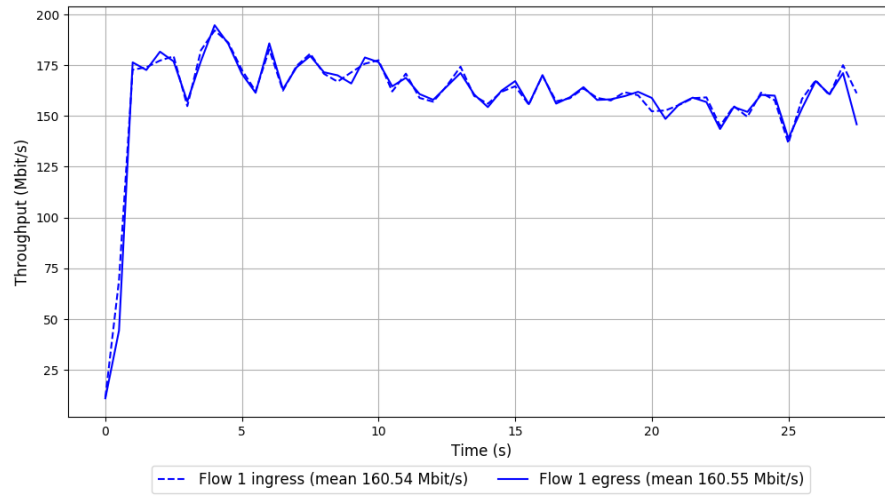
Average throughput: 160.55 Mbit/s

95th percentile per-packet one-way delay: 63.877 ms

Loss rate: 0.44%



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

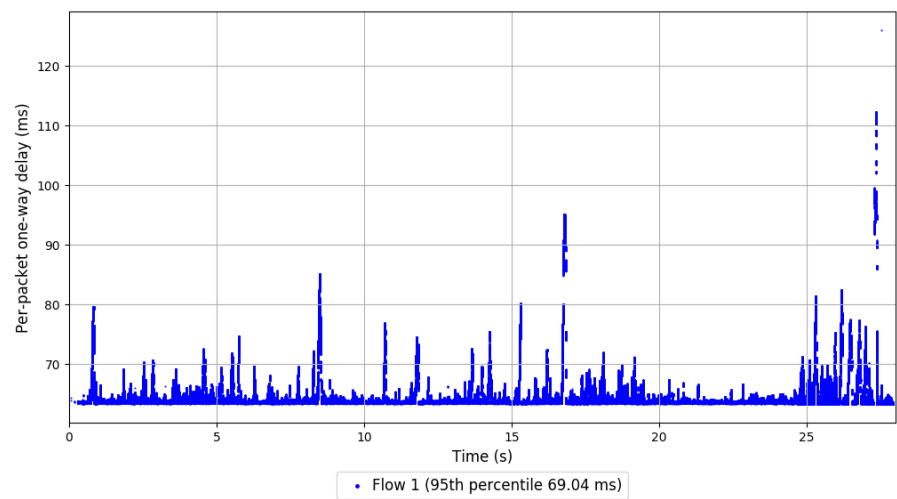
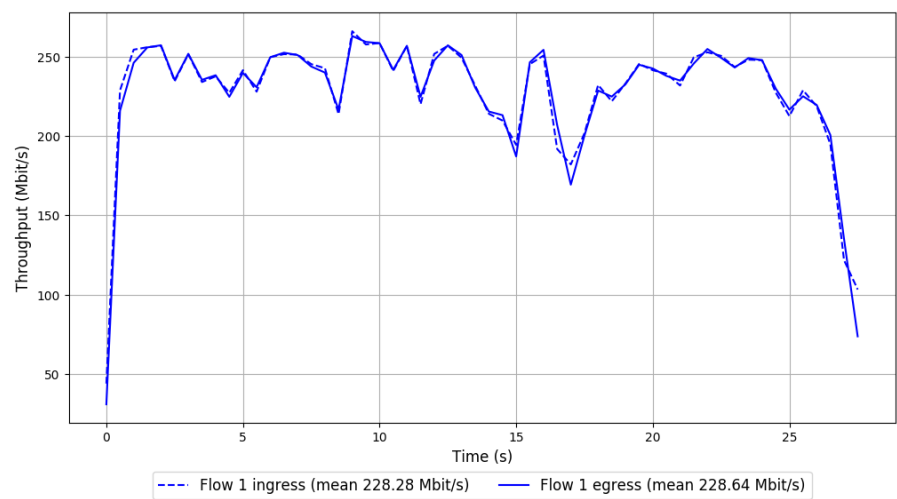


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-09-21 21:17:05
End at: 2017-09-21 21:17:35

# Below is generated by plot.py at 2017-09-21 23:49:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 228.64 Mbit/s
95th percentile per-packet one-way delay: 69.037 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 228.64 Mbit/s
95th percentile per-packet one-way delay: 69.037 ms
Loss rate: 0.29%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-09-21 19:47:34

End at: 2017-09-21 19:48:04

# Below is generated by plot.py at 2017-09-21 23:49:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.48 Mbit/s

95th percentile per-packet one-way delay: 64.152 ms

Loss rate: 0.59%

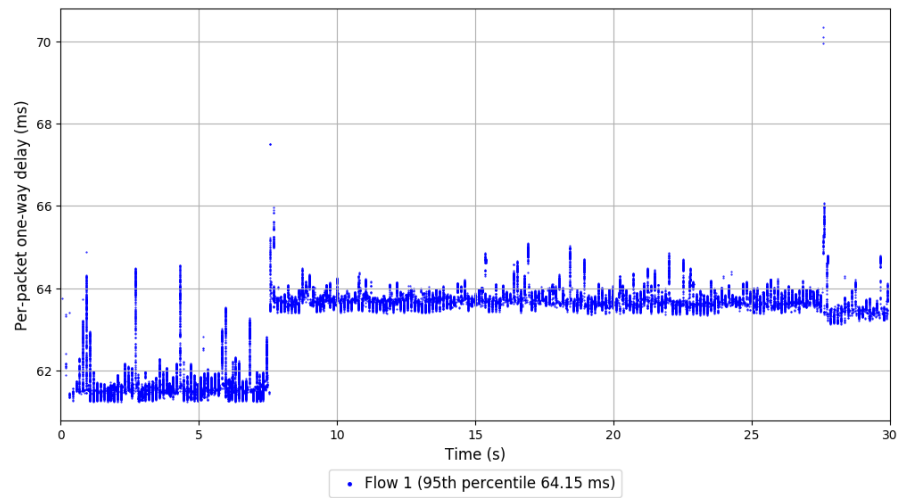
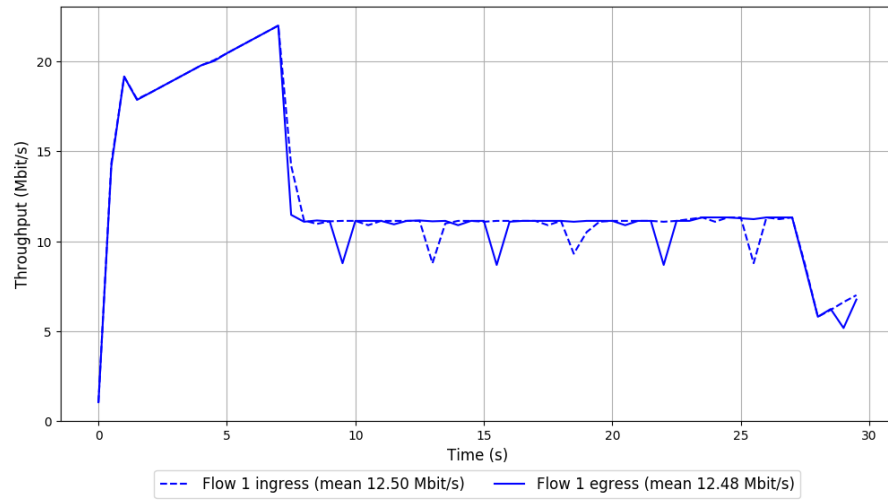
-- Flow 1:

Average throughput: 12.48 Mbit/s

95th percentile per-packet one-way delay: 64.152 ms

Loss rate: 0.59%

### Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-09-21 19:58:03

End at: 2017-09-21 19:58:33

# Below is generated by plot.py at 2017-09-21 23:49:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 25.13 Mbit/s

95th percentile per-packet one-way delay: 64.998 ms

Loss rate: 0.23%

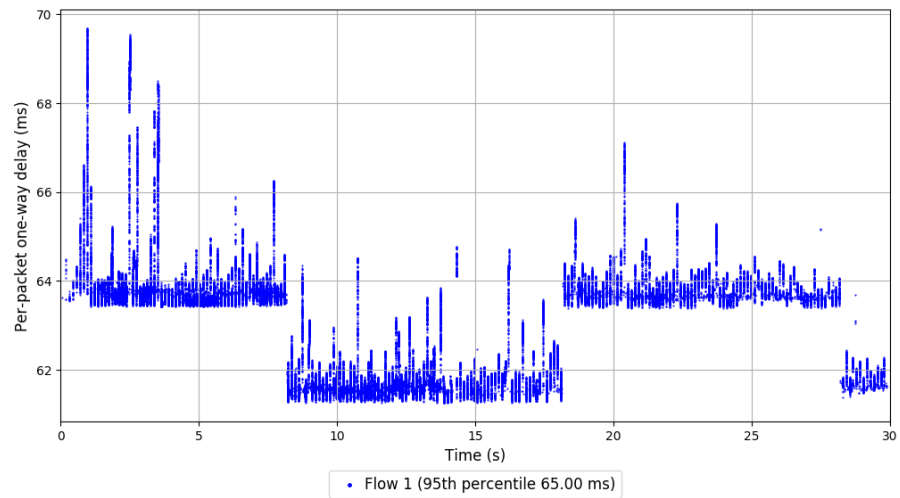
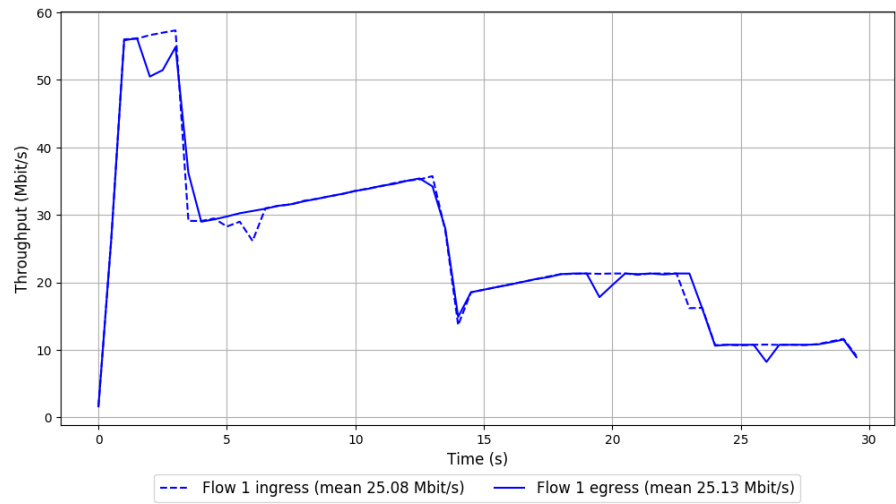
-- Flow 1:

Average throughput: 25.13 Mbit/s

95th percentile per-packet one-way delay: 64.998 ms

Loss rate: 0.23%

## Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-09-21 20:08:39

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

# Below is generated by plot.py at 2017-09-21 23:49:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 55.63 Mbit/s

95th percentile per-packet one-way delay: 63.869 ms

Loss rate: 0.24%

-- Flow 1:

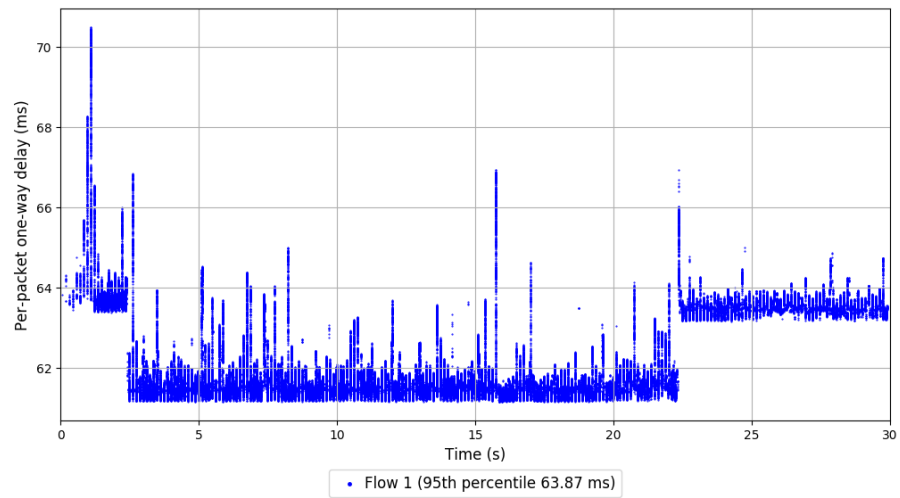
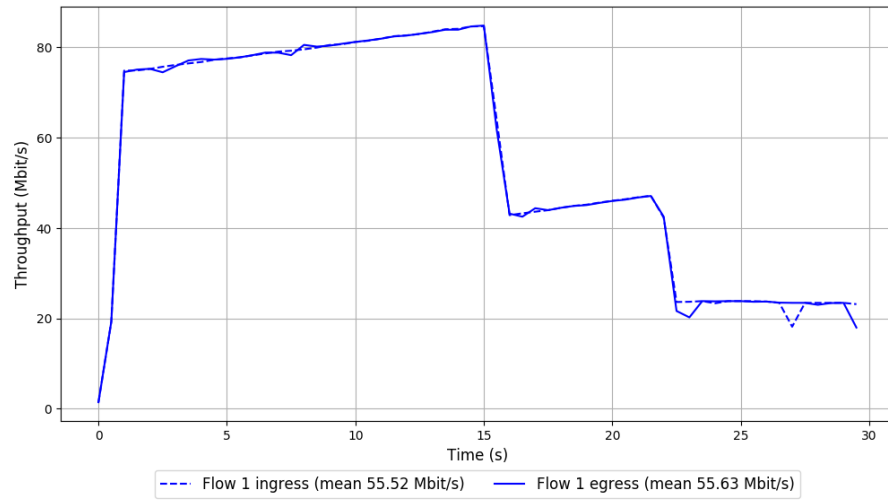
Average throughput: 55.63 Mbit/s

95th percentile per-packet one-way delay: 63.869 ms

Loss rate: 0.24%



### Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-09-21 20:19:27

End at: 2017-09-21 20:19:57

# Below is generated by plot.py at 2017-09-21 23:49:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 14.35 Mbit/s

95th percentile per-packet one-way delay: 64.422 ms

Loss rate: 0.49%

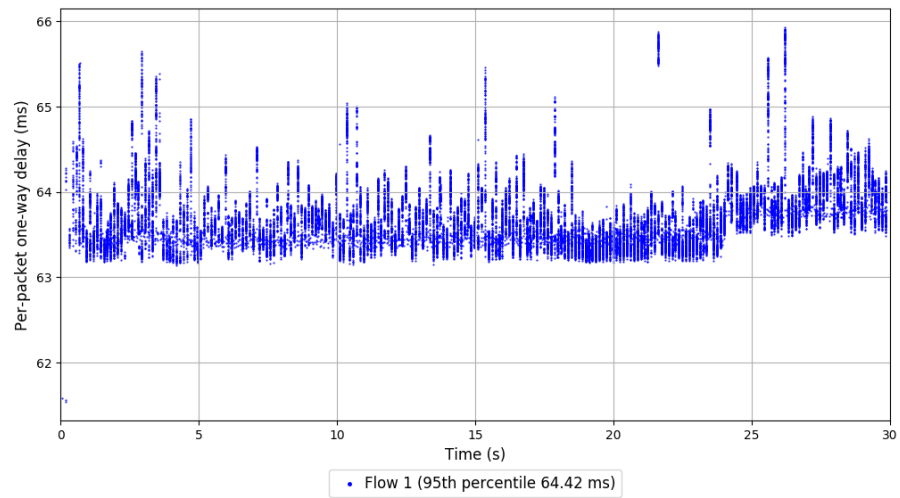
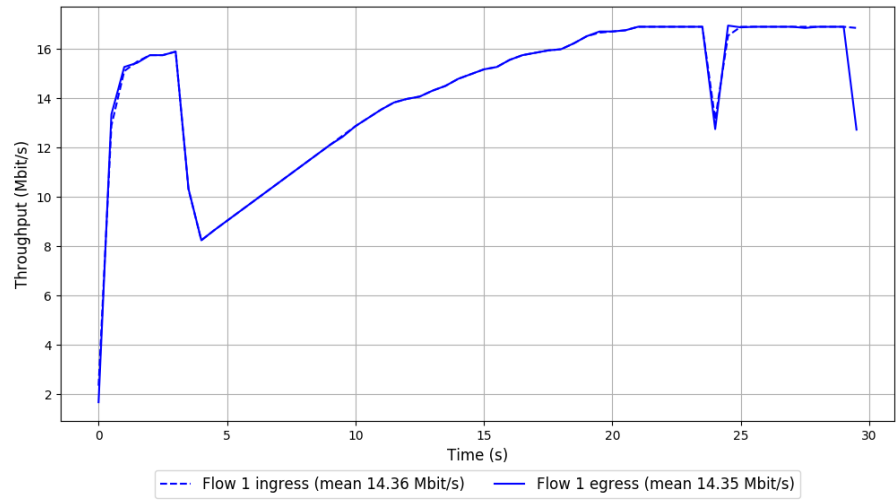
-- Flow 1:

Average throughput: 14.35 Mbit/s

95th percentile per-packet one-way delay: 64.422 ms

Loss rate: 0.49%

#### Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-09-21 20:30:07

End at: 2017-09-21 20:30:37

# Below is generated by plot.py at 2017-09-21 23:49:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 31.47 Mbit/s

95th percentile per-packet one-way delay: 72.890 ms

Loss rate: 0.32%

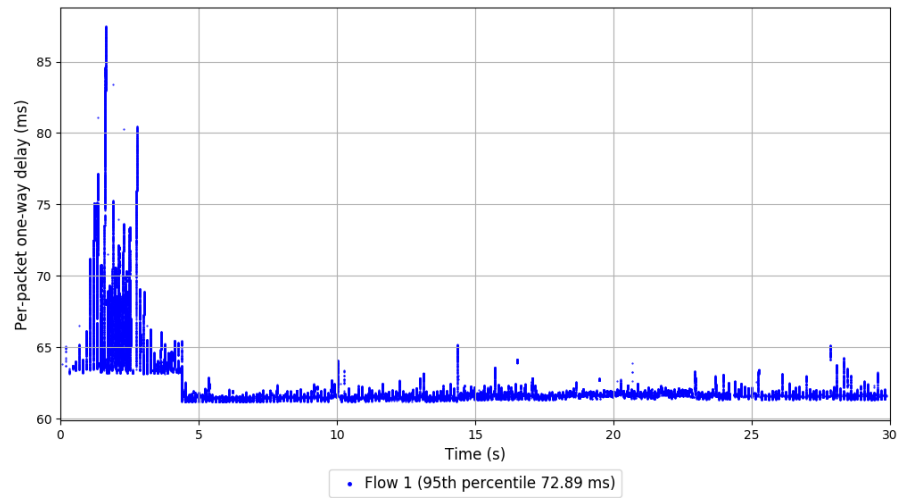
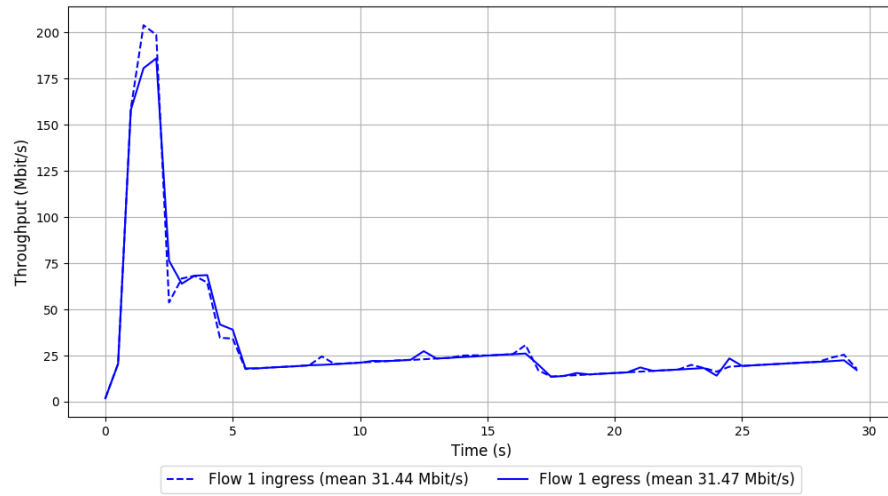
-- Flow 1:

Average throughput: 31.47 Mbit/s

95th percentile per-packet one-way delay: 72.890 ms

Loss rate: 0.32%

### Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-09-21 20:40:44

End at: 2017-09-21 20:41:14

# Below is generated by plot.py at 2017-09-21 23:49:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 48.34 Mbit/s

95th percentile per-packet one-way delay: 64.754 ms

Loss rate: 0.17%

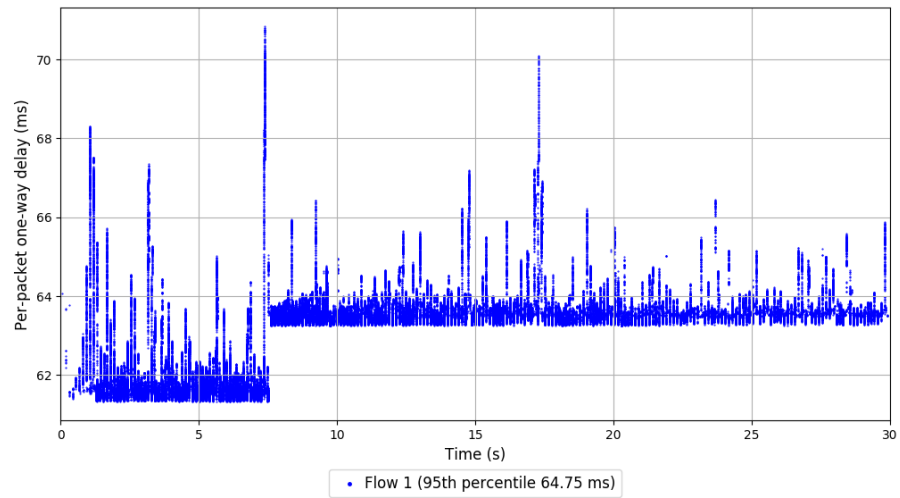
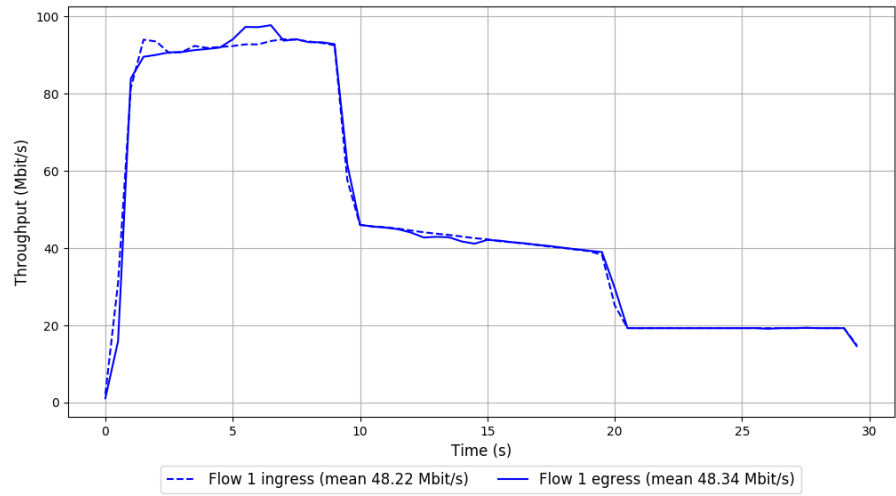
-- Flow 1:

Average throughput: 48.34 Mbit/s

95th percentile per-packet one-way delay: 64.754 ms

Loss rate: 0.17%

# Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-09-21 20:51:42

End at: 2017-09-21 20:52:12

# Below is generated by plot.py at 2017-09-21 23:49:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 9.36 Mbit/s

95th percentile per-packet one-way delay: 64.347 ms

Loss rate: 0.68%

-- Flow 1:

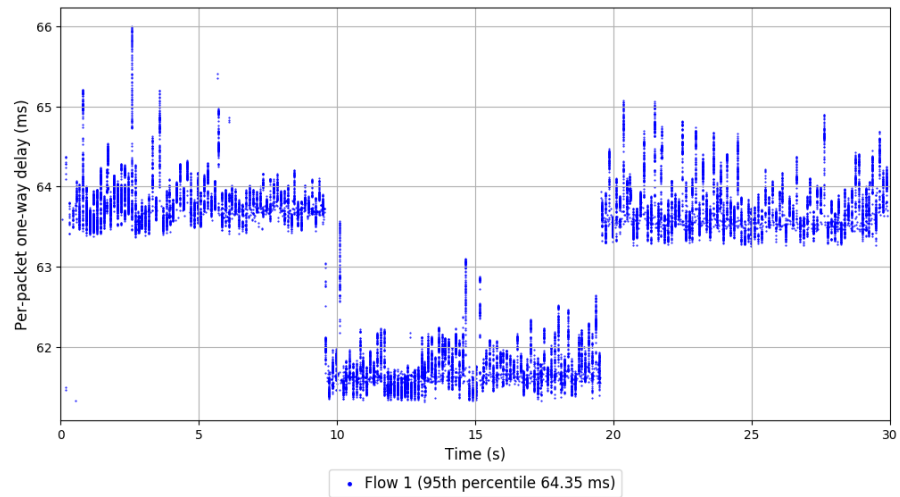
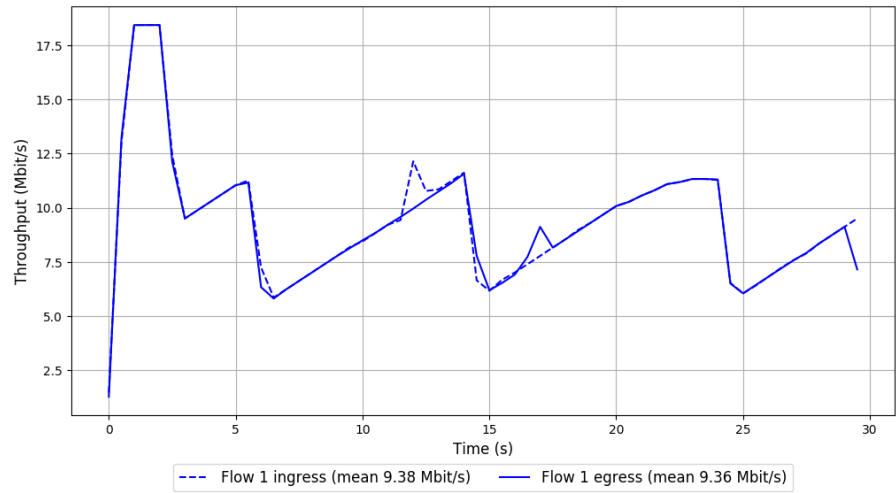
Average throughput: 9.36 Mbit/s

95th percentile per-packet one-way delay: 64.347 ms

Loss rate: 0.68%



## Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-09-21 21:02:18

End at: 2017-09-21 21:02:48

# Below is generated by plot.py at 2017-09-21 23:49:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 27.87 Mbit/s

95th percentile per-packet one-way delay: 64.255 ms

Loss rate: 0.27%

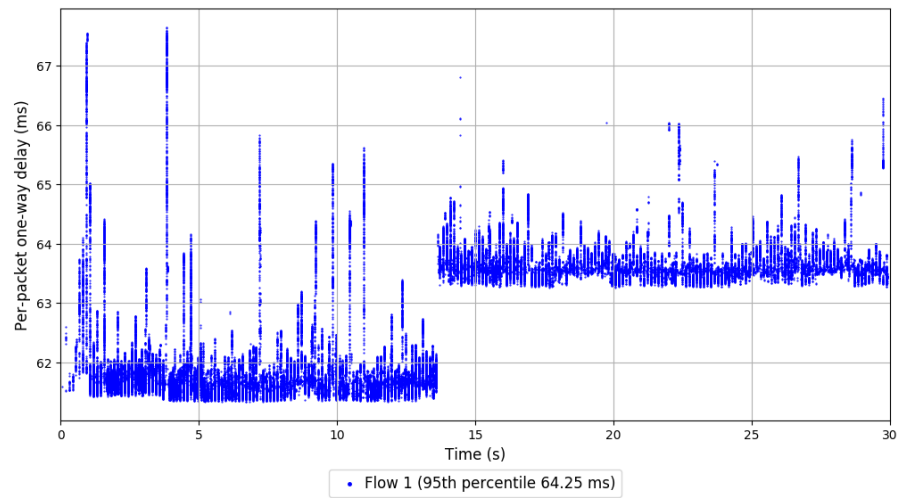
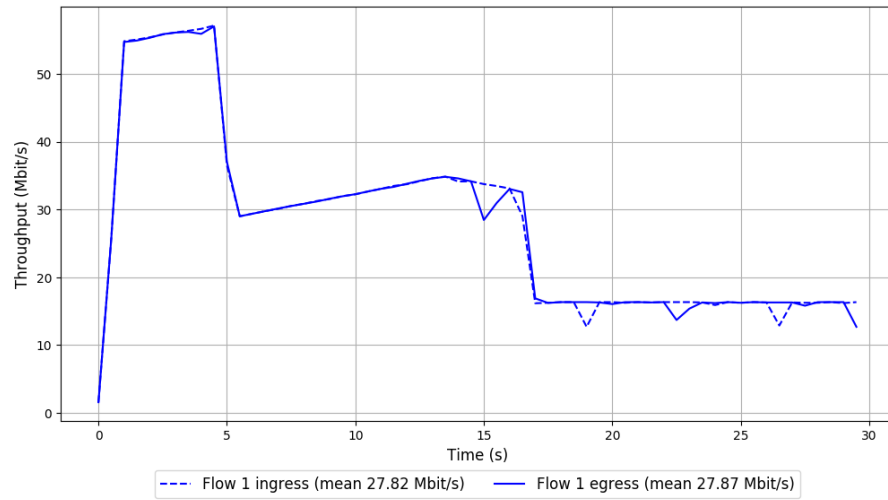
-- Flow 1:

Average throughput: 27.87 Mbit/s

95th percentile per-packet one-way delay: 64.255 ms

Loss rate: 0.27%

# Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

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

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

# Below is generated by plot.py at 2017-09-21 23:49:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 21.37 Mbit/s

95th percentile per-packet one-way delay: 64.954 ms

Loss rate: 0.27%

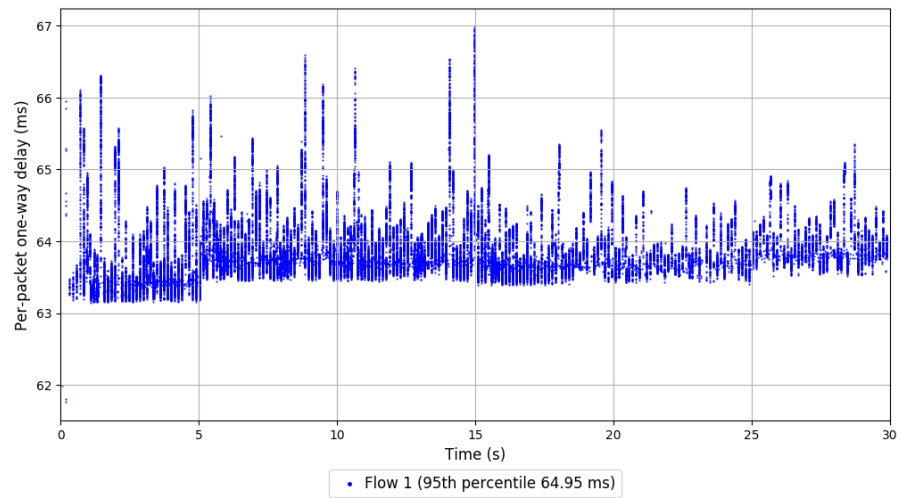
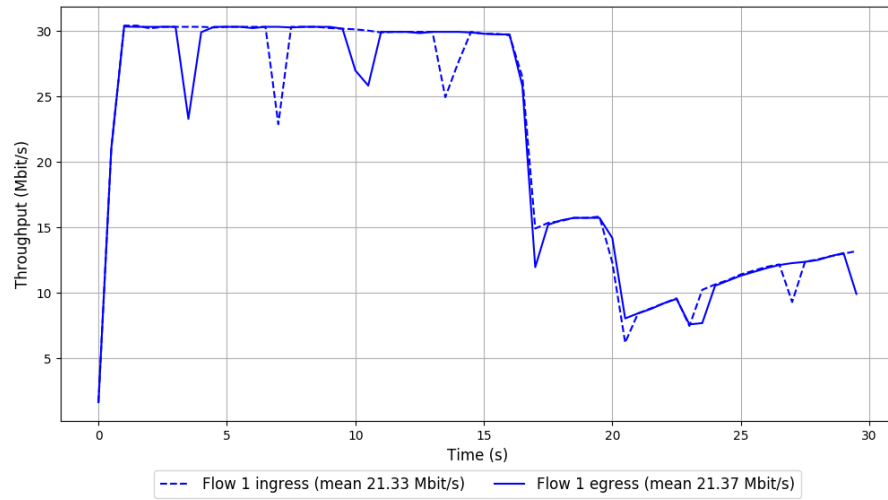
-- Flow 1:

Average throughput: 21.37 Mbit/s

95th percentile per-packet one-way delay: 64.954 ms

Loss rate: 0.27%

### Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-09-21 21:23:47

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

# Below is generated by plot.py at 2017-09-21 23:49:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 54.85 Mbit/s

95th percentile per-packet one-way delay: 64.969 ms

Loss rate: 0.19%

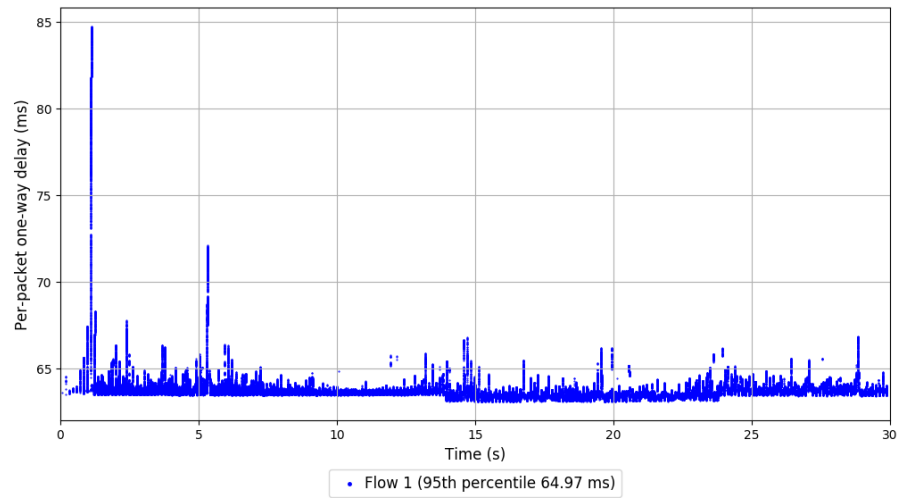
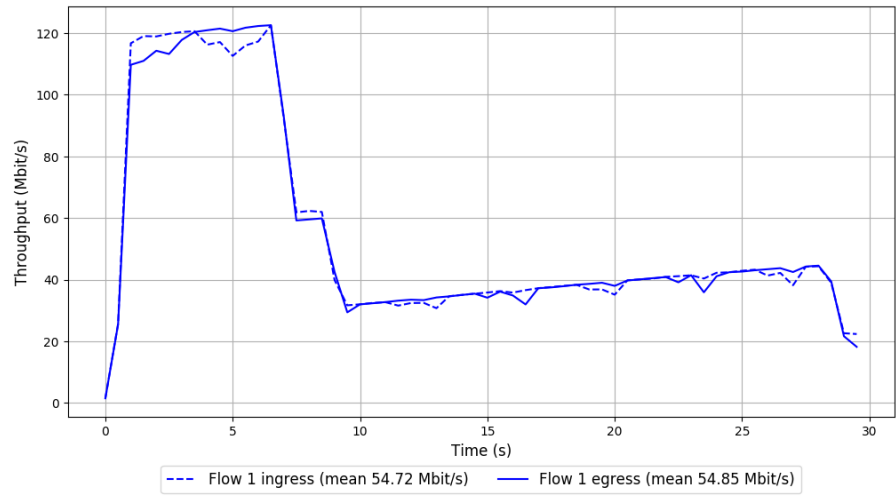
-- Flow 1:

Average throughput: 54.85 Mbit/s

95th percentile per-packet one-way delay: 64.969 ms

Loss rate: 0.19%

# Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-09-21 19:39:55

End at: 2017-09-21 19:40:25

# Below is generated by plot.py at 2017-09-21 23:49:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 249.38 Mbit/s

95th percentile per-packet one-way delay: 94.884 ms

Loss rate: 2.52%

-- Flow 1:

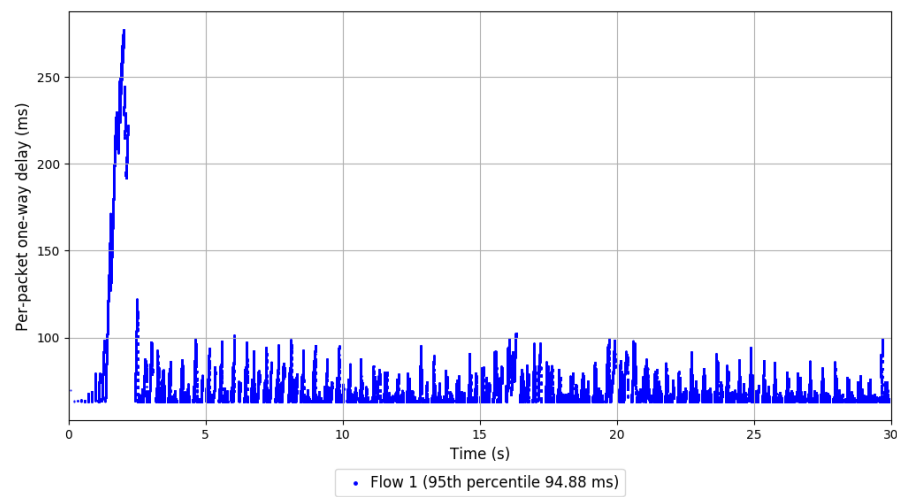
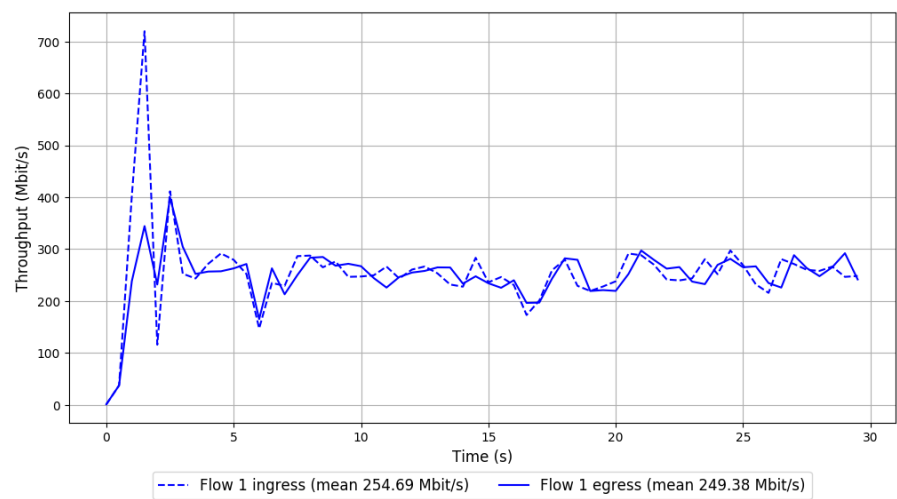
Average throughput: 249.38 Mbit/s

95th percentile per-packet one-way delay: 94.884 ms

Loss rate: 2.52%



Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-09-21 19:50:39

End at: 2017-09-21 19:51:09

# Below is generated by plot.py at 2017-09-21 23:49:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 239.02 Mbit/s

95th percentile per-packet one-way delay: 130.686 ms

Loss rate: 2.74%

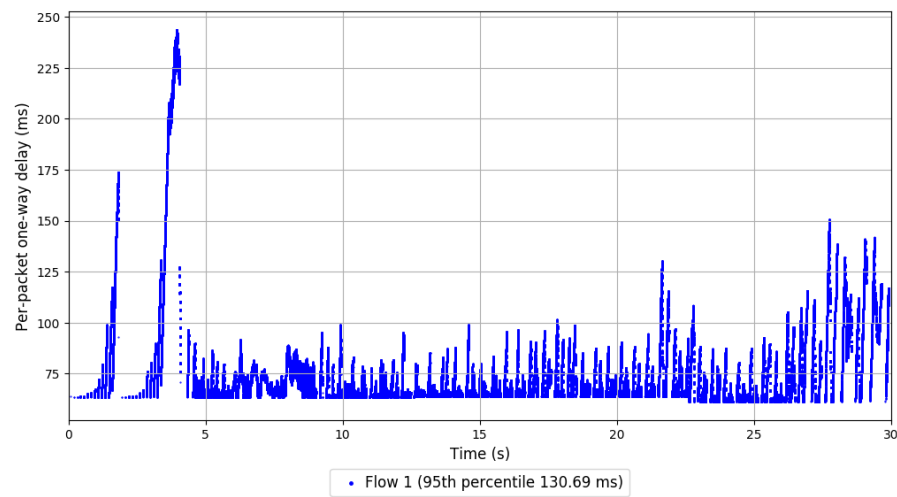
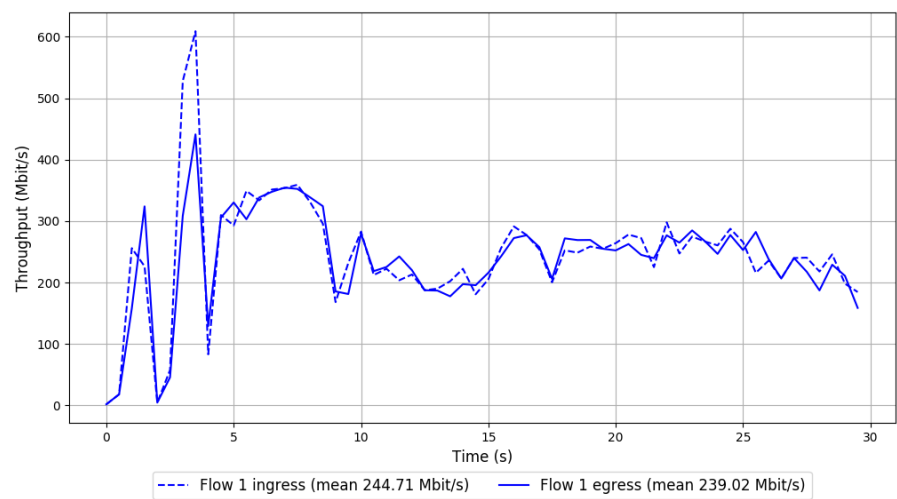
-- Flow 1:

Average throughput: 239.02 Mbit/s

95th percentile per-packet one-way delay: 130.686 ms

Loss rate: 2.74%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-09-21 20:01:14

End at: 2017-09-21 20:01:44

# Below is generated by plot.py at 2017-09-21 23:49:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 99.20 Mbit/s

95th percentile per-packet one-way delay: 172.504 ms

Loss rate: 4.74%

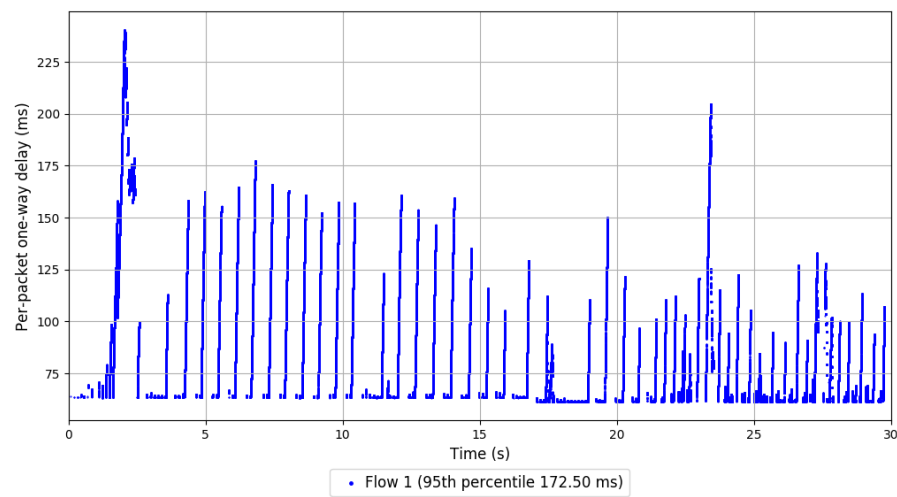
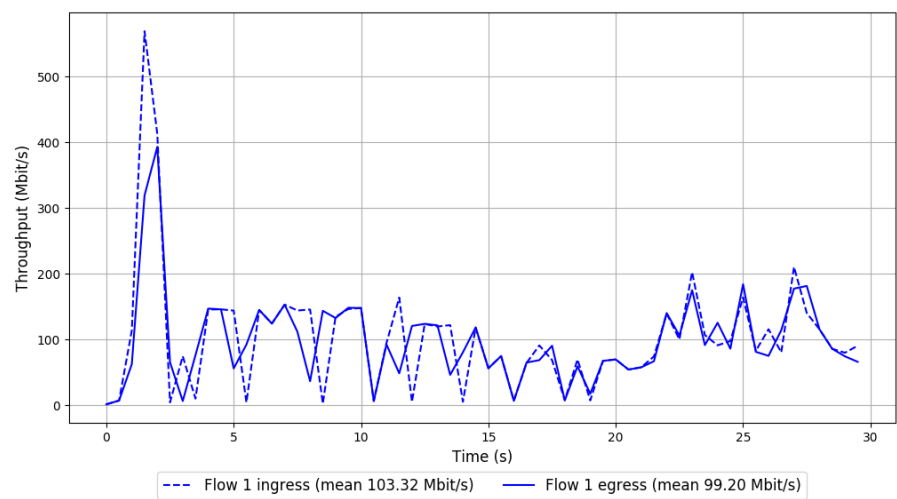
-- Flow 1:

Average throughput: 99.20 Mbit/s

95th percentile per-packet one-way delay: 172.504 ms

Loss rate: 4.74%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-09-21 20:11:52

End at: 2017-09-21 20:12:22

# Below is generated by plot.py at 2017-09-21 23:49:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 240.72 Mbit/s

95th percentile per-packet one-way delay: 208.436 ms

Loss rate: 2.84%

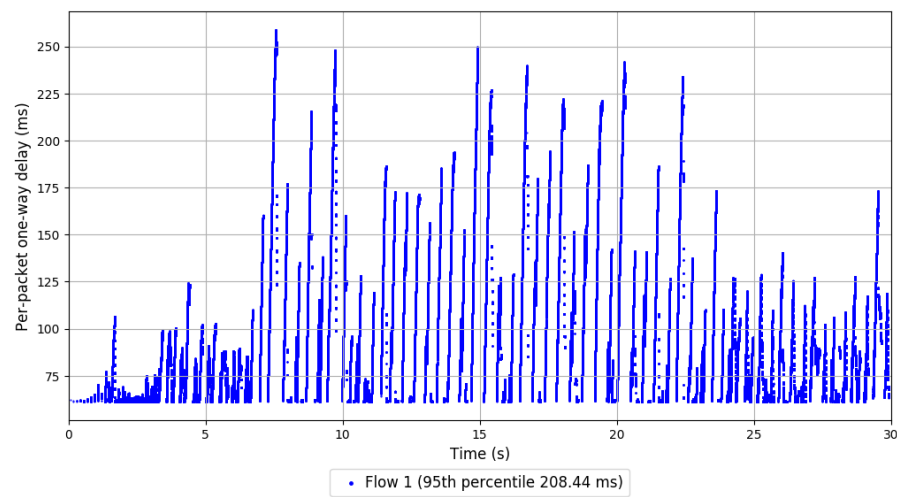
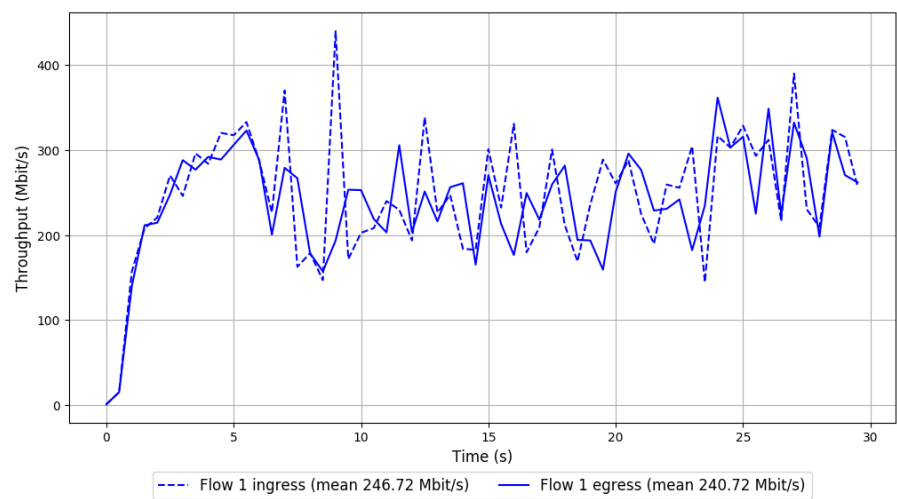
-- Flow 1:

Average throughput: 240.72 Mbit/s

95th percentile per-packet one-way delay: 208.436 ms

Loss rate: 2.84%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-09-21 20:22:37

End at: 2017-09-21 20:23:07

# Below is generated by plot.py at 2017-09-21 23:49:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 248.01 Mbit/s

95th percentile per-packet one-way delay: 148.159 ms

Loss rate: 1.59%

-- Flow 1:

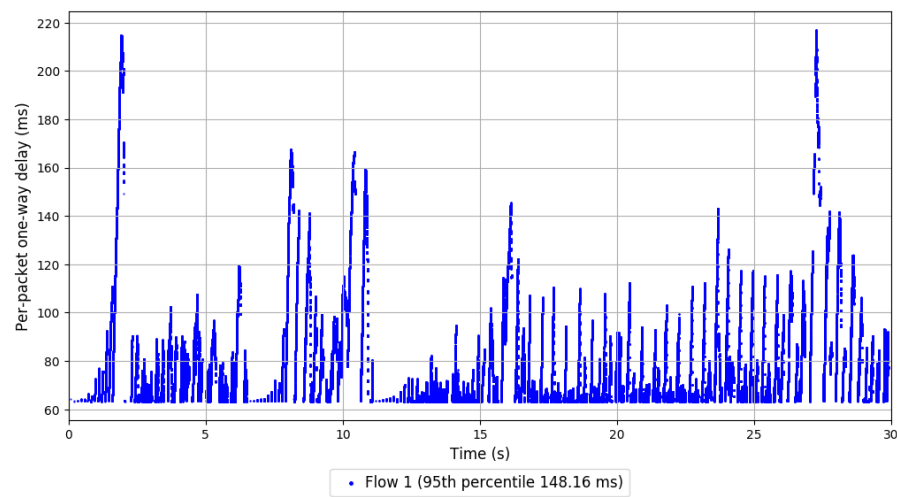
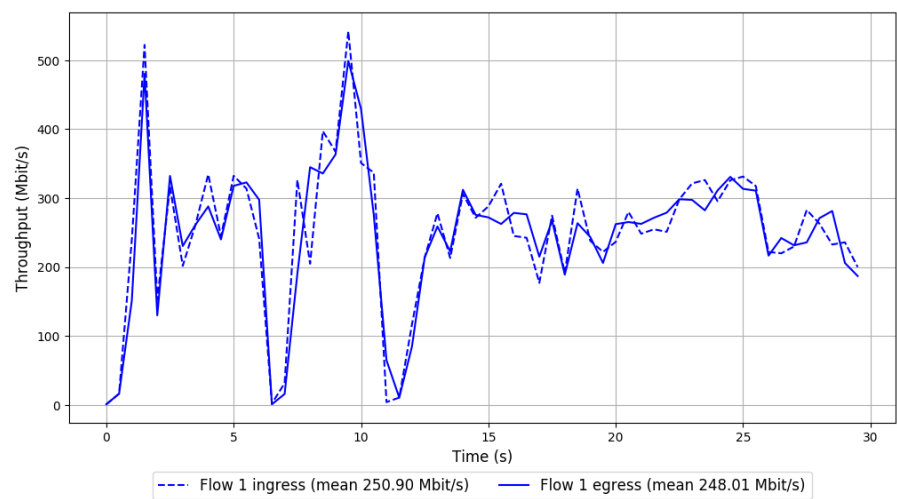
Average throughput: 248.01 Mbit/s

95th percentile per-packet one-way delay: 148.159 ms

Loss rate: 1.59%



Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-09-21 20:33:12

End at: 2017-09-21 20:33:42

# Below is generated by plot.py at 2017-09-21 23:49:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 208.39 Mbit/s

95th percentile per-packet one-way delay: 112.787 ms

Loss rate: 0.63%

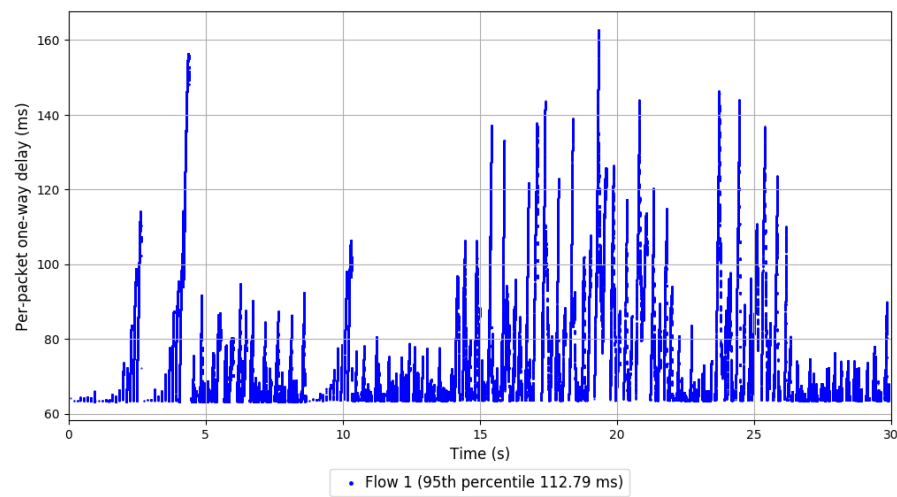
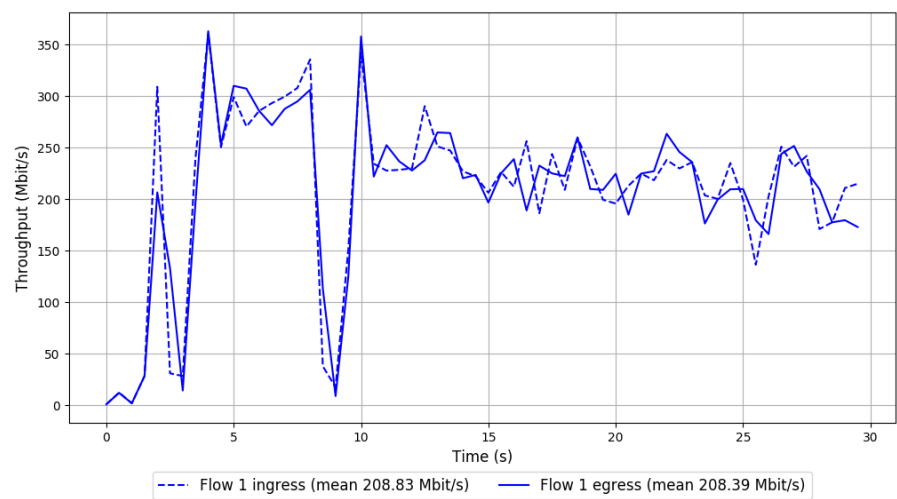
-- Flow 1:

Average throughput: 208.39 Mbit/s

95th percentile per-packet one-way delay: 112.787 ms

Loss rate: 0.63%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-09-21 20:44:01

End at: 2017-09-21 20:44:31

# Below is generated by plot.py at 2017-09-21 23:50:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 255.70 Mbit/s

95th percentile per-packet one-way delay: 118.907 ms

Loss rate: 1.07%

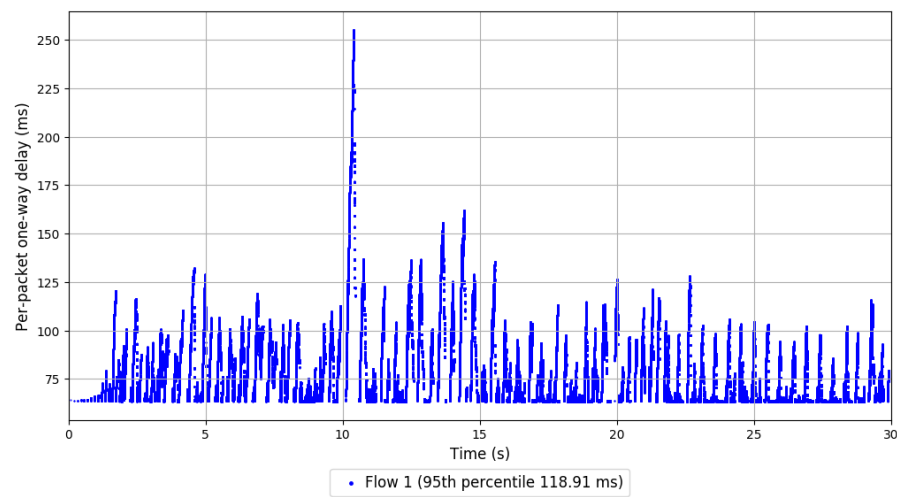
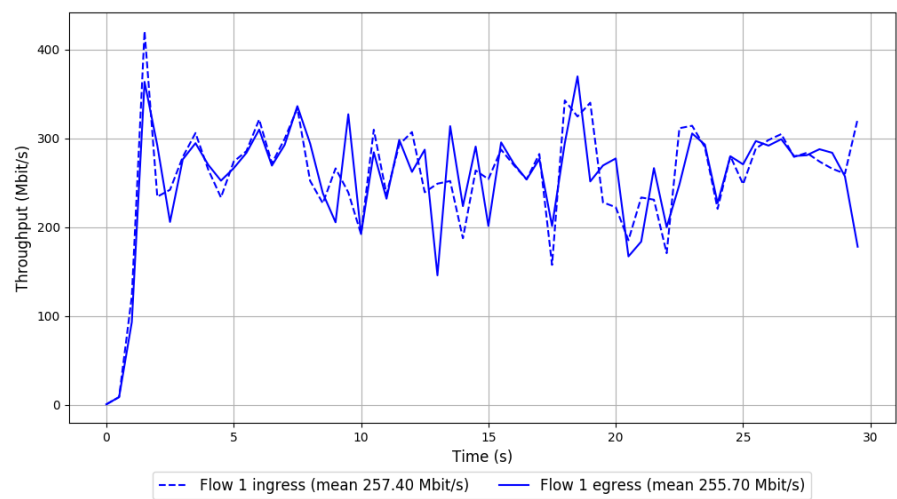
-- Flow 1:

Average throughput: 255.70 Mbit/s

95th percentile per-packet one-way delay: 118.907 ms

Loss rate: 1.07%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-09-21 20:54:51

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

# Below is generated by plot.py at 2017-09-21 23:50:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 250.47 Mbit/s

95th percentile per-packet one-way delay: 211.041 ms

Loss rate: 6.17%

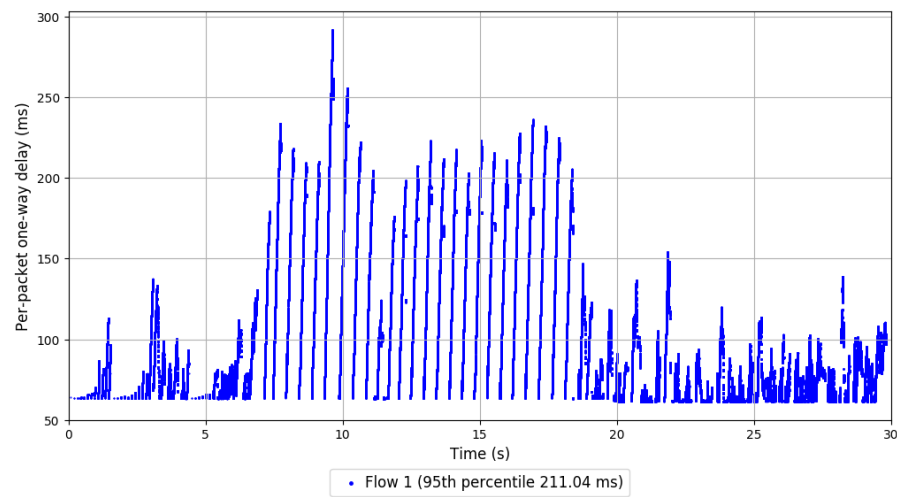
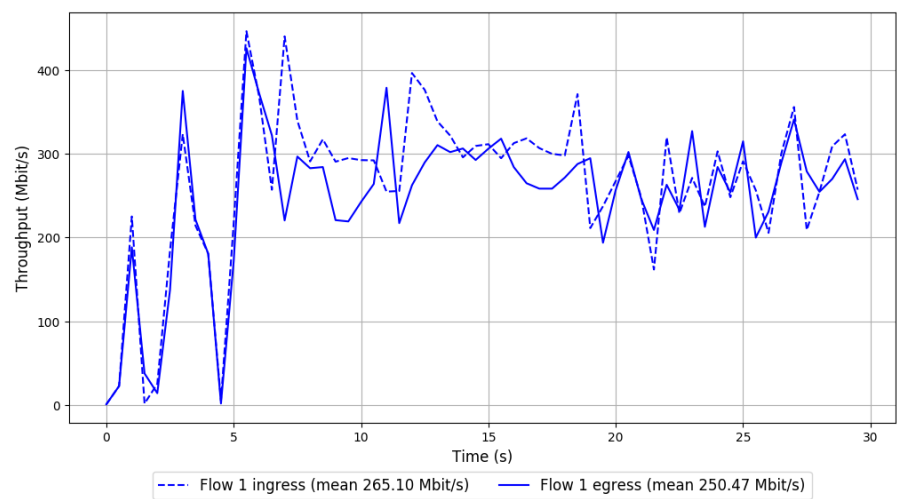
-- Flow 1:

Average throughput: 250.47 Mbit/s

95th percentile per-packet one-way delay: 211.041 ms

Loss rate: 6.17%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-09-21 21:05:31

End at: 2017-09-21 21:06:01

# Below is generated by plot.py at 2017-09-21 23:51:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 185.97 Mbit/s

95th percentile per-packet one-way delay: 136.461 ms

Loss rate: 0.22%

-- Flow 1:

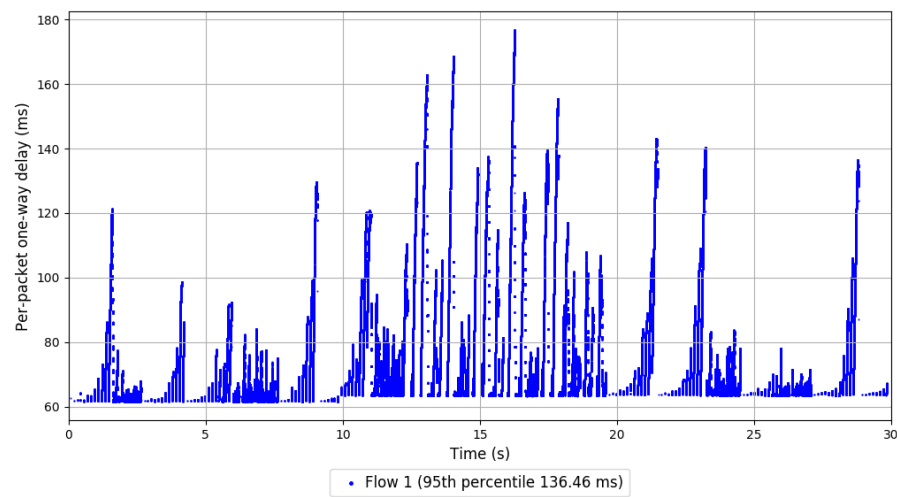
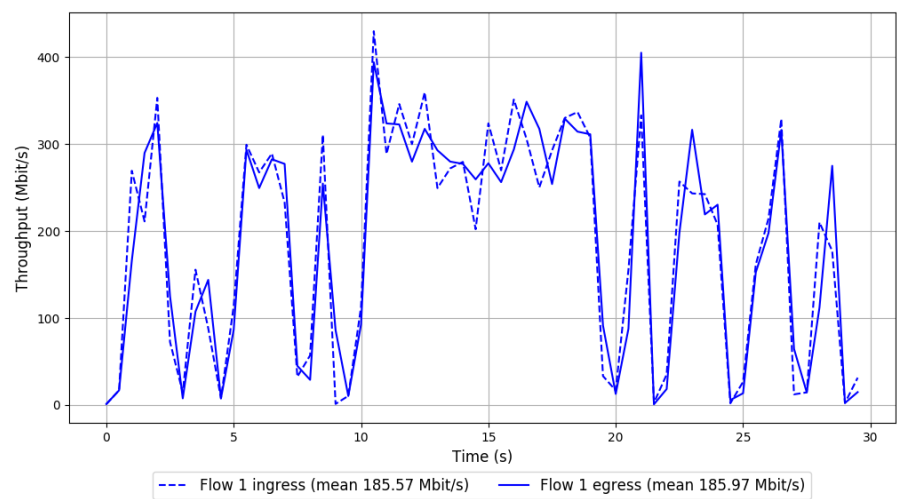
Average throughput: 185.97 Mbit/s

95th percentile per-packet one-way delay: 136.461 ms

Loss rate: 0.22%



Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

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

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

# Below is generated by plot.py at 2017-09-21 23:53:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 245.23 Mbit/s

95th percentile per-packet one-way delay: 101.572 ms

Loss rate: 2.80%

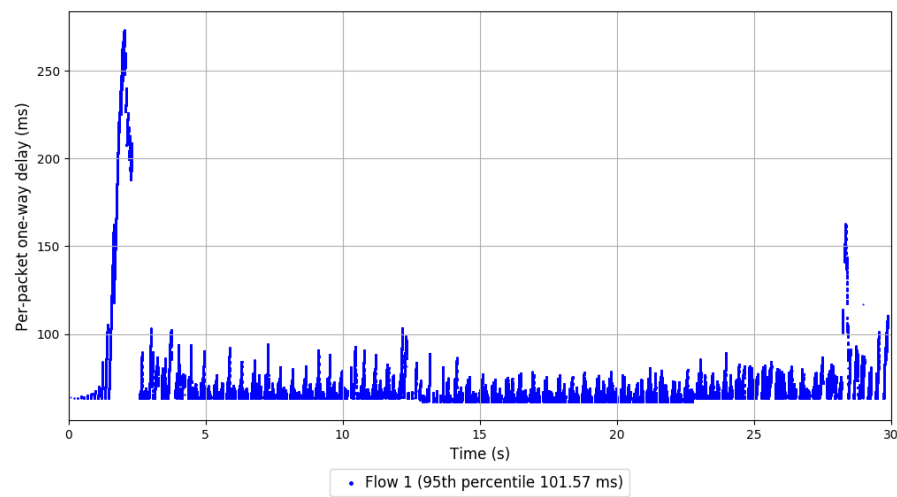
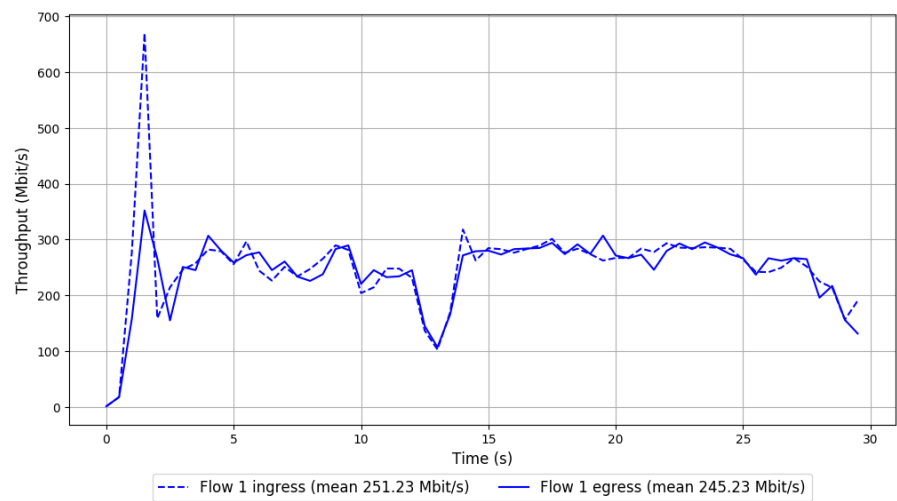
-- Flow 1:

Average throughput: 245.23 Mbit/s

95th percentile per-packet one-way delay: 101.572 ms

Loss rate: 2.80%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Indigo

Start at: 2017-09-21 19:39:03

End at: 2017-09-21 19:39:33

# Below is generated by plot.py at 2017-09-21 23:53:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 191.96 Mbit/s

95th percentile per-packet one-way delay: 64.148 ms

Loss rate: 0.45%

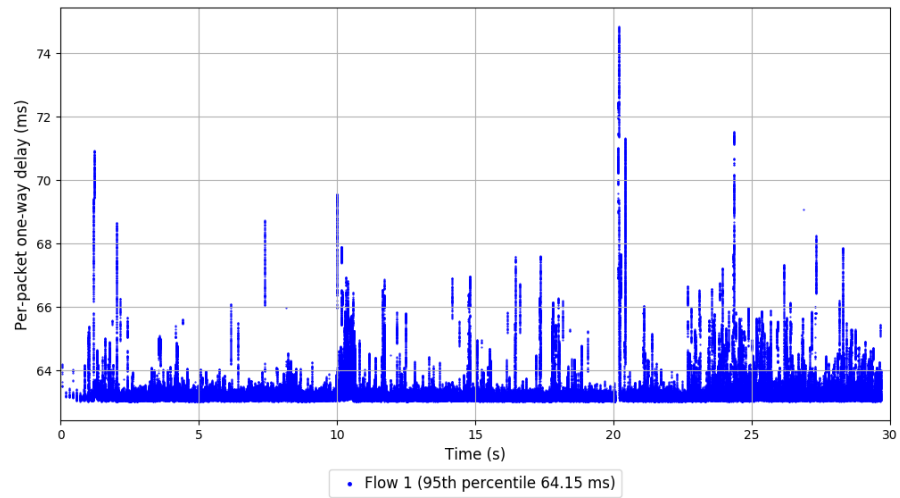
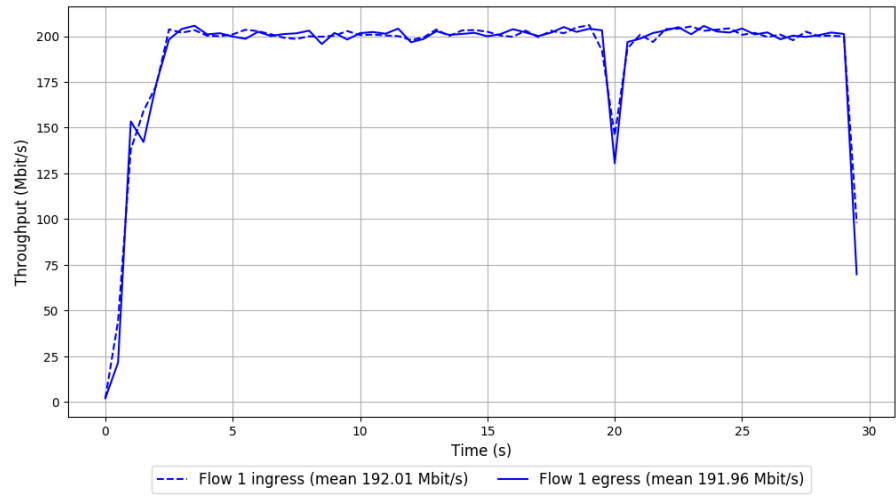
-- Flow 1:

Average throughput: 191.96 Mbit/s

95th percentile per-packet one-way delay: 64.148 ms

Loss rate: 0.45%

## Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-09-21 19:49:47

End at: 2017-09-21 19:50:17

# Below is generated by plot.py at 2017-09-21 23:53:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 188.10 Mbit/s

95th percentile per-packet one-way delay: 63.739 ms

Loss rate: 0.43%

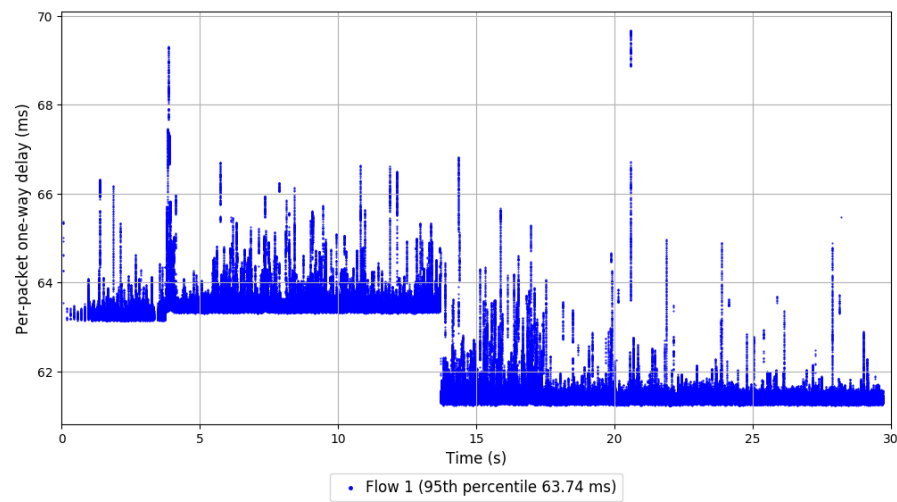
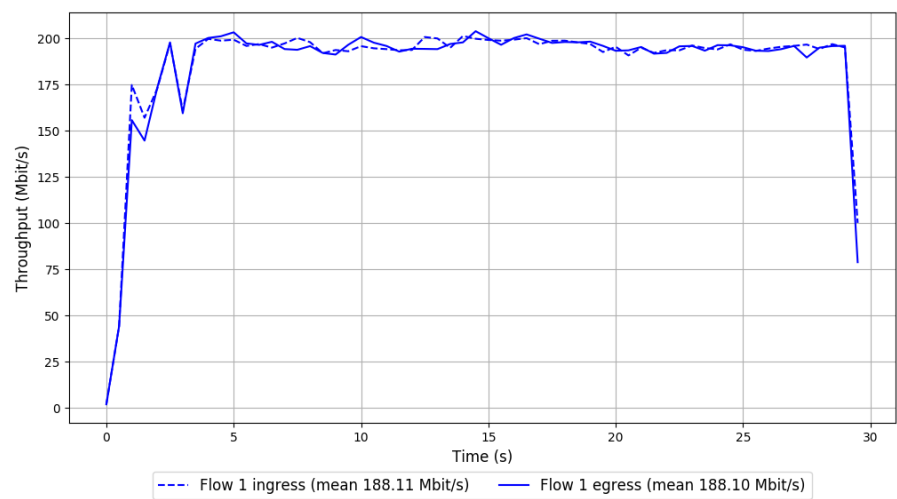
-- Flow 1:

Average throughput: 188.10 Mbit/s

95th percentile per-packet one-way delay: 63.739 ms

Loss rate: 0.43%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-09-21 20:00:22

End at: 2017-09-21 20:00:52

# Below is generated by plot.py at 2017-09-21 23:53:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 187.33 Mbit/s

95th percentile per-packet one-way delay: 64.178 ms

Loss rate: 0.21%

-- Flow 1:

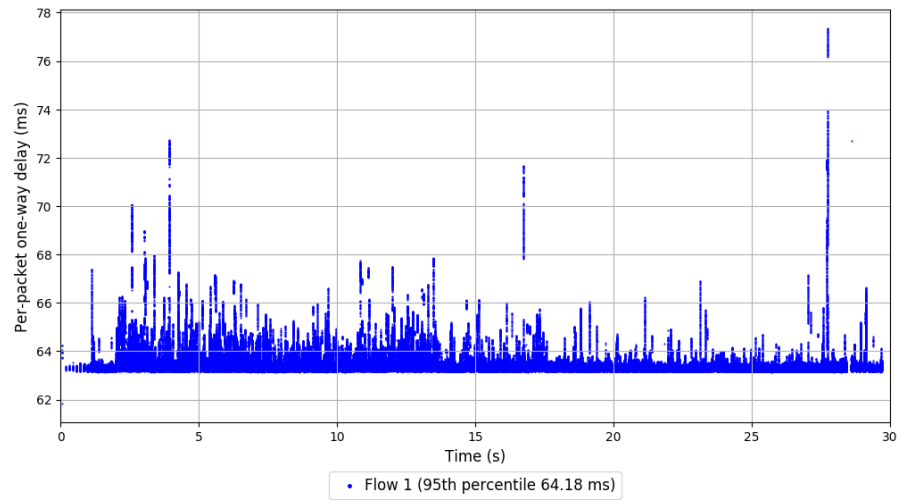
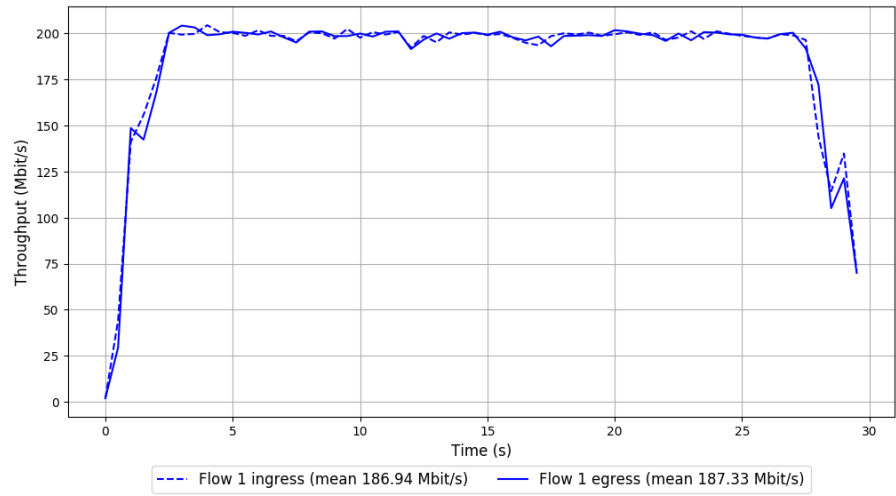
Average throughput: 187.33 Mbit/s

95th percentile per-packet one-way delay: 64.178 ms

Loss rate: 0.21%



### Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-09-21 20:11:00

End at: 2017-09-21 20:11:30

# Below is generated by plot.py at 2017-09-21 23:53:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 187.83 Mbit/s

95th percentile per-packet one-way delay: 64.098 ms

Loss rate: 0.45%

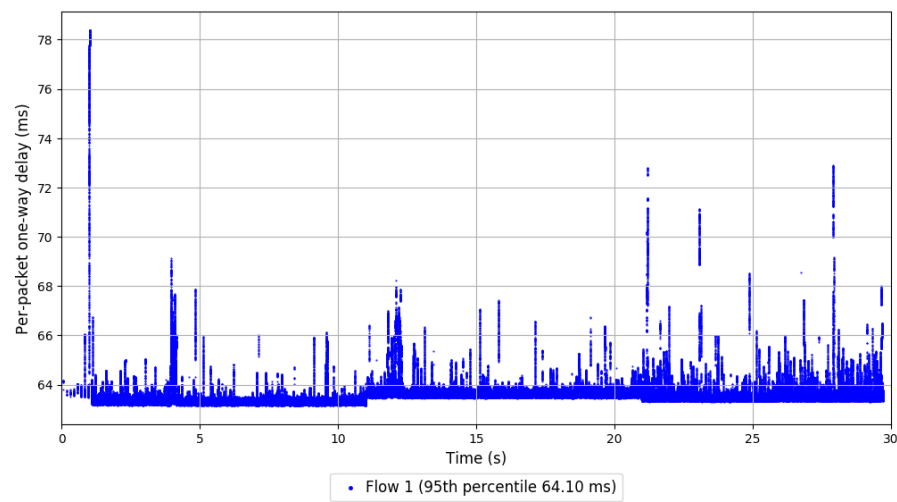
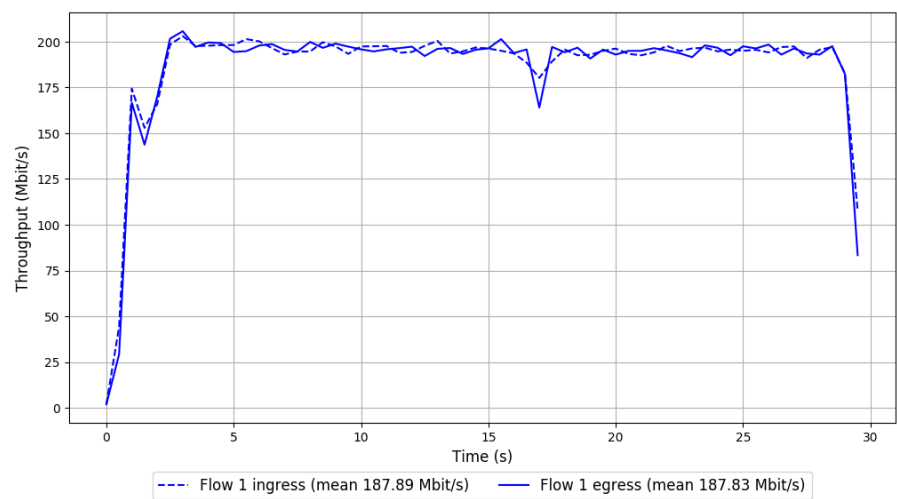
-- Flow 1:

Average throughput: 187.83 Mbit/s

95th percentile per-packet one-way delay: 64.098 ms

Loss rate: 0.45%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-09-21 20:21:47

End at: 2017-09-21 20:22:17

# Below is generated by plot.py at 2017-09-21 23:53:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 179.46 Mbit/s

95th percentile per-packet one-way delay: 63.931 ms

Loss rate: 0.46%

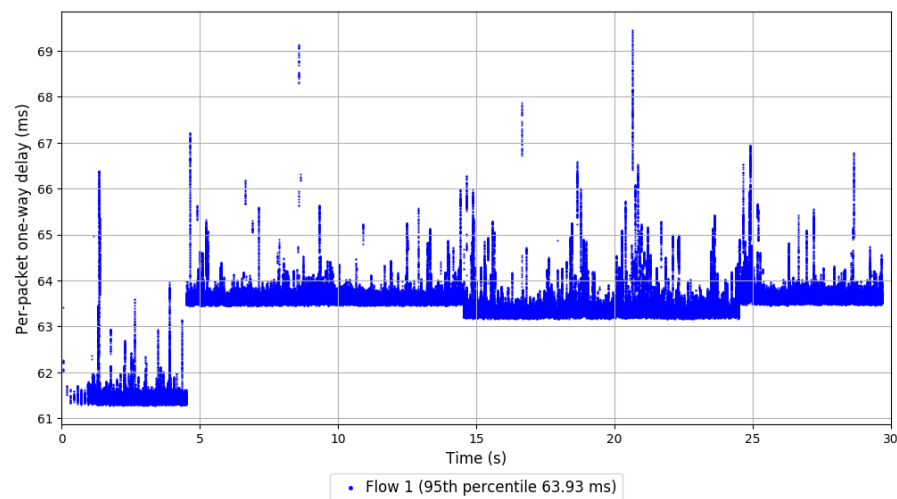
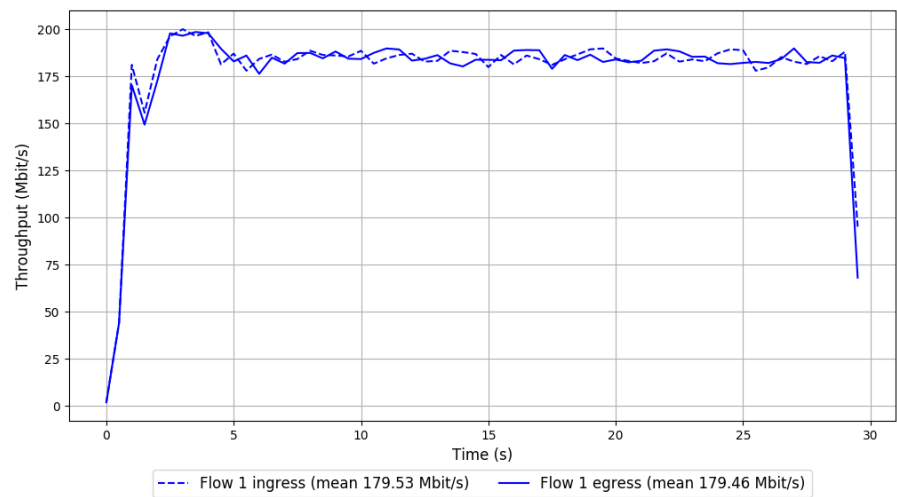
-- Flow 1:

Average throughput: 179.46 Mbit/s

95th percentile per-packet one-way delay: 63.931 ms

Loss rate: 0.46%

Run 5: Report of Indigo — Data Link

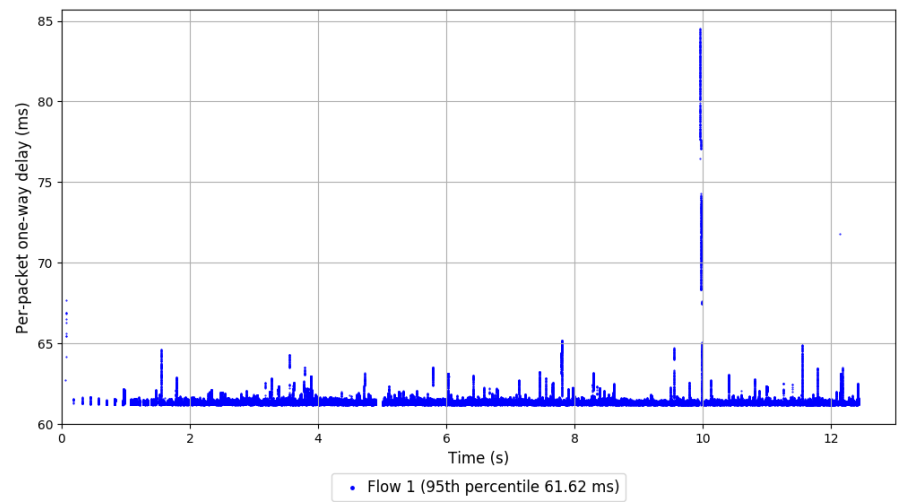
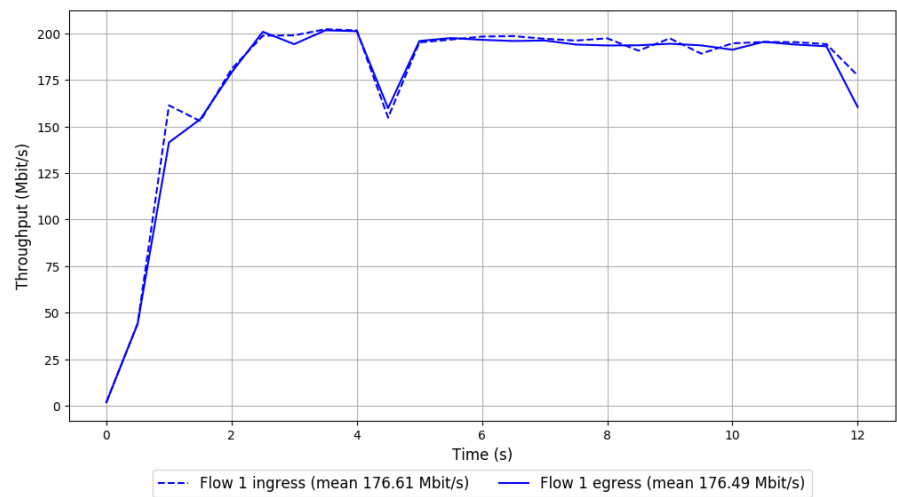


Run 6: Statistics of Indigo

Start at: 2017-09-21 20:32:28

End at: 2017-09-21 20:32:58

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-09-21 20:43:09

End at: 2017-09-21 20:43:39

# Below is generated by plot.py at 2017-09-21 23:55:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 187.63 Mbit/s

95th percentile per-packet one-way delay: 63.892 ms

Loss rate: 0.44%

-- Flow 1:

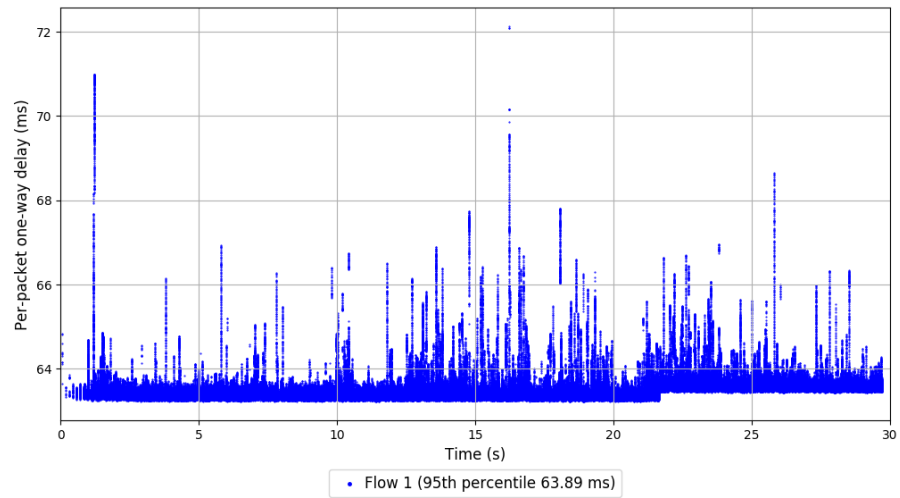
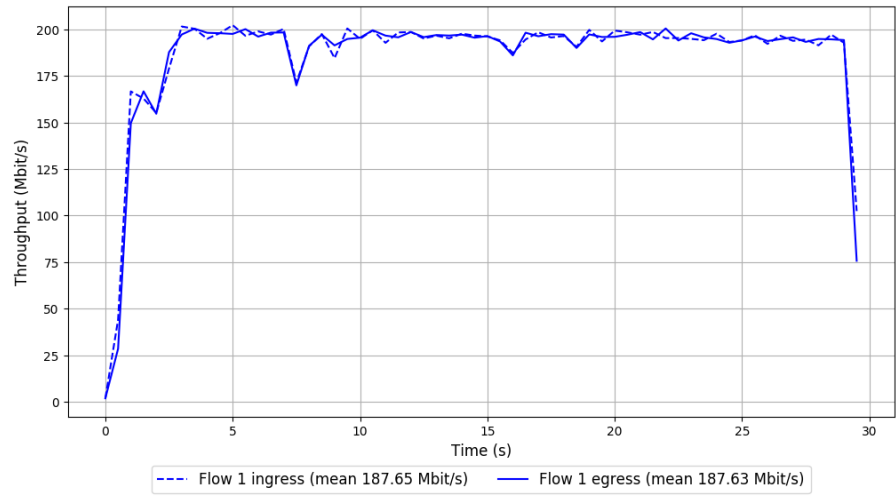
Average throughput: 187.63 Mbit/s

95th percentile per-packet one-way delay: 63.892 ms

Loss rate: 0.44%



## Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-09-21 20:53:59

End at: 2017-09-21 20:54:29

# Below is generated by plot.py at 2017-09-21 23:55:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 191.27 Mbit/s

95th percentile per-packet one-way delay: 64.358 ms

Loss rate: 0.45%

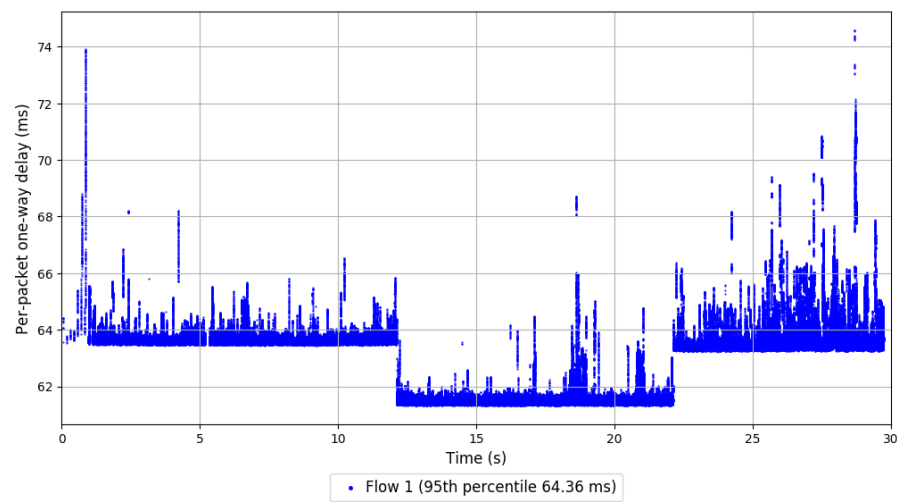
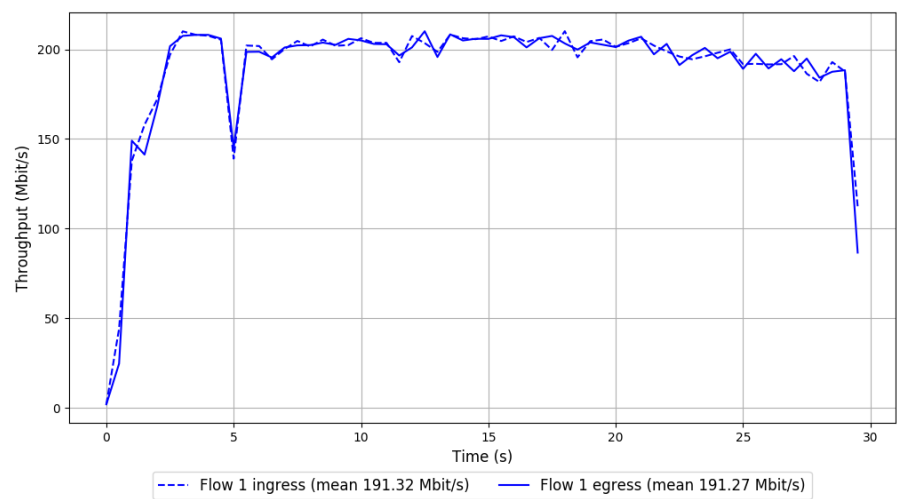
-- Flow 1:

Average throughput: 191.27 Mbit/s

95th percentile per-packet one-way delay: 64.358 ms

Loss rate: 0.45%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-09-21 21:04:40

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

# Below is generated by plot.py at 2017-09-21 23:55:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 185.88 Mbit/s

95th percentile per-packet one-way delay: 63.383 ms

Loss rate: 0.43%

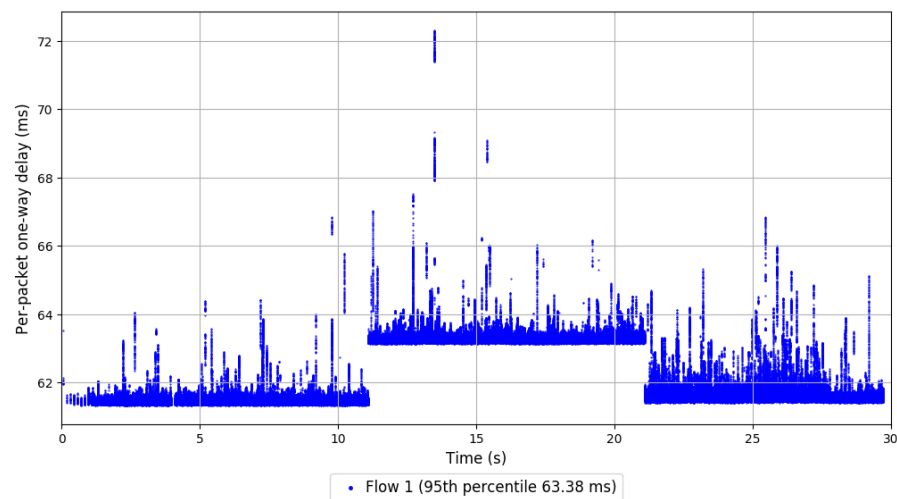
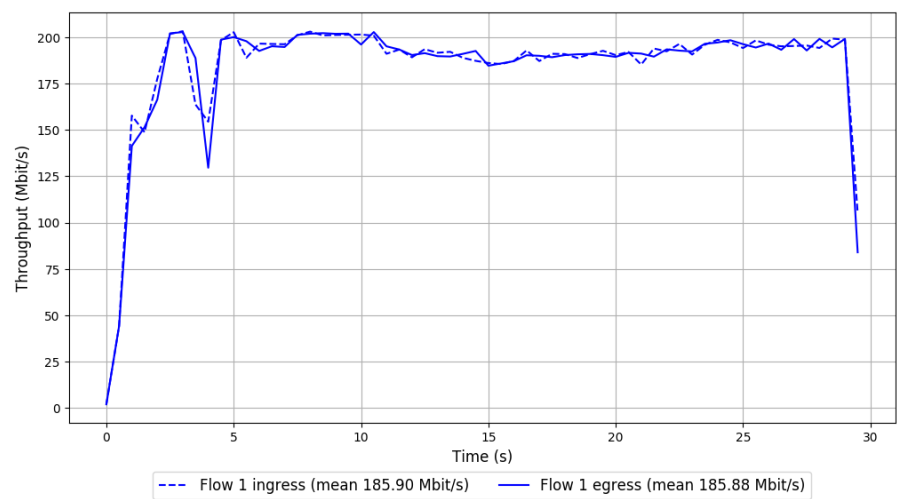
-- Flow 1:

Average throughput: 185.88 Mbit/s

95th percentile per-packet one-way delay: 63.383 ms

Loss rate: 0.43%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

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

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

# Below is generated by plot.py at 2017-09-21 23:56:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 185.51 Mbit/s

95th percentile per-packet one-way delay: 63.912 ms

Loss rate: 0.48%

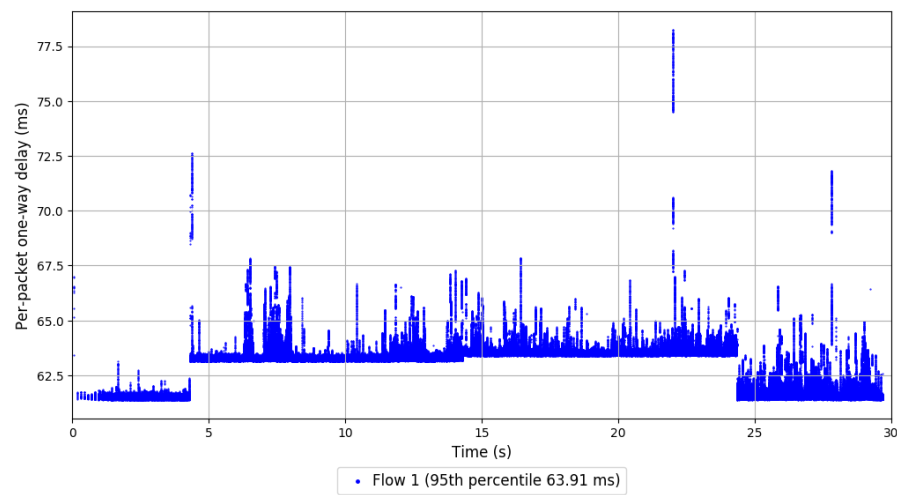
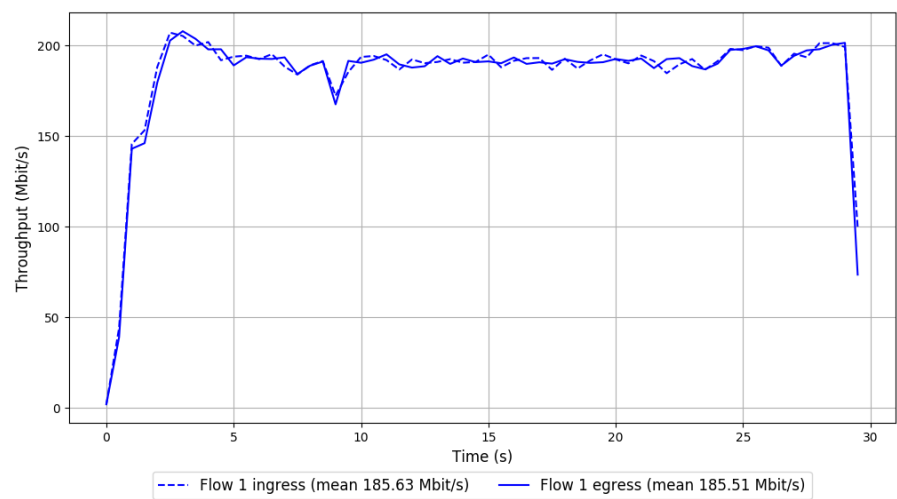
-- Flow 1:

Average throughput: 185.51 Mbit/s

95th percentile per-packet one-way delay: 63.912 ms

Loss rate: 0.48%

Run 10: Report of Indigo — Data Link



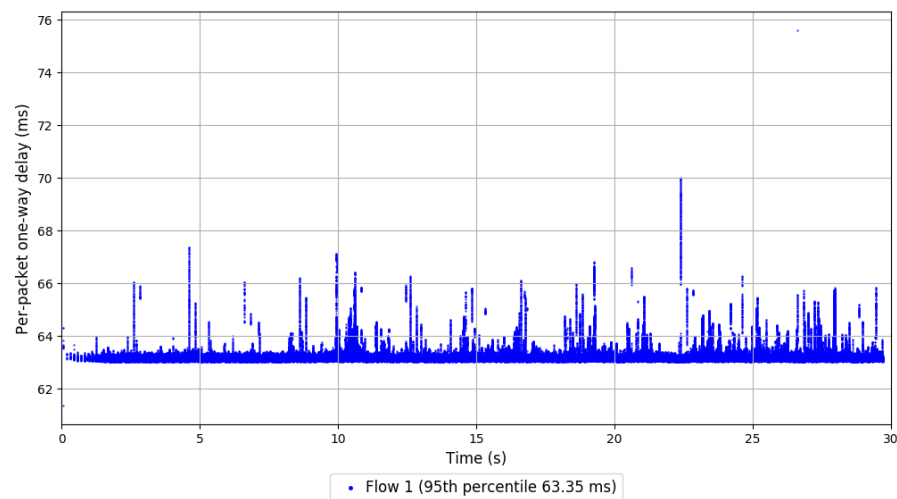
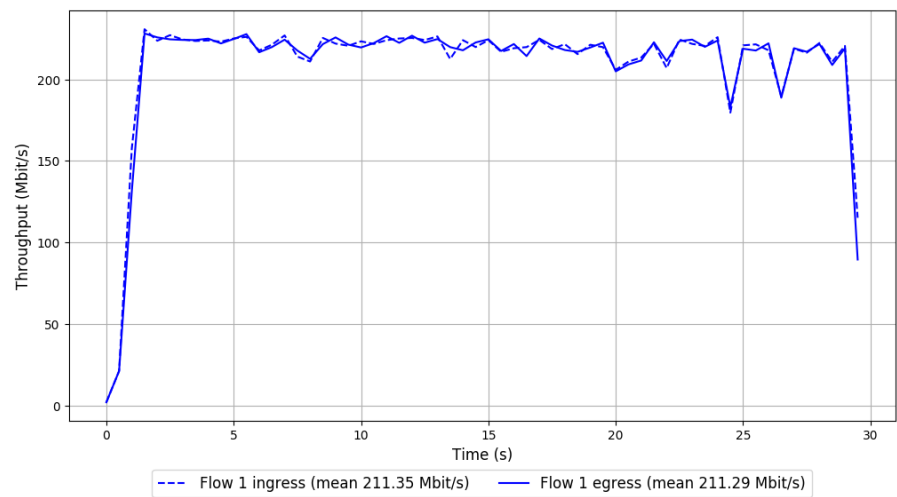
```
Run 1: Statistics of Indigo-calib

Start at: 2017-09-21 19:42:29
End at: 2017-09-21 19:42:59

# Below is generated by plot.py at 2017-09-21 23:57:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.29 Mbit/s
95th percentile per-packet one-way delay: 63.354 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 211.29 Mbit/s
95th percentile per-packet one-way delay: 63.354 ms
Loss rate: 0.45%
```



Run 1: Report of Indigo-calib — Data Link

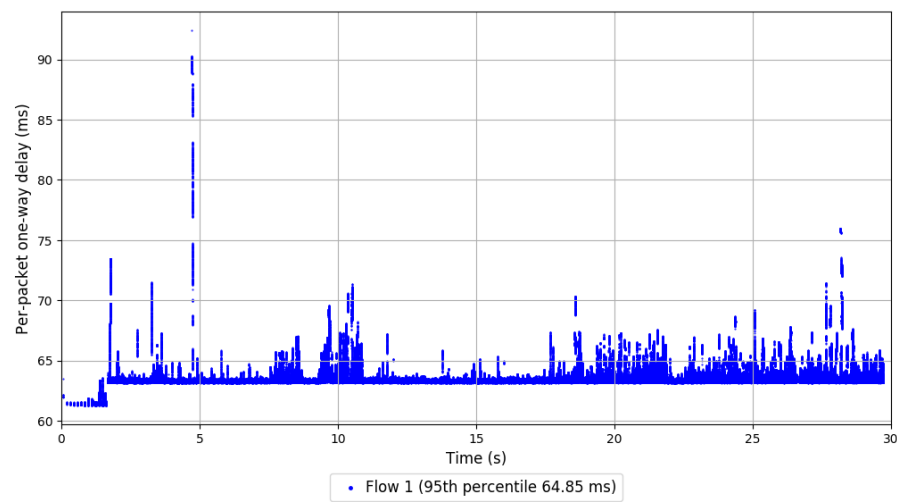
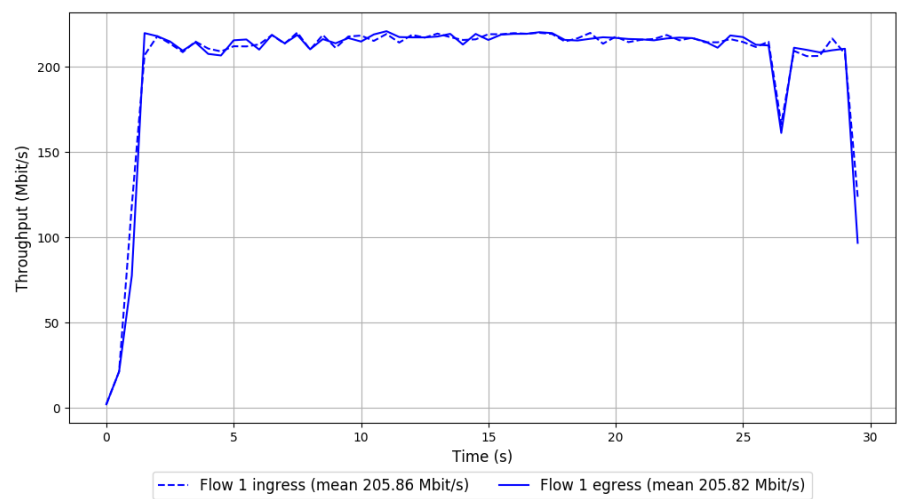


```
Run 2: Statistics of Indigo-calib

Start at: 2017-09-21 19:52:59
End at: 2017-09-21 19:53:29

# Below is generated by plot.py at 2017-09-21 23:57:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 205.82 Mbit/s
95th percentile per-packet one-way delay: 64.854 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 205.82 Mbit/s
95th percentile per-packet one-way delay: 64.854 ms
Loss rate: 0.45%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-09-21 20:03:35

End at: 2017-09-21 20:04:05

# Below is generated by plot.py at 2017-09-21 23:57:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 209.26 Mbit/s

95th percentile per-packet one-way delay: 64.438 ms

Loss rate: 0.45%

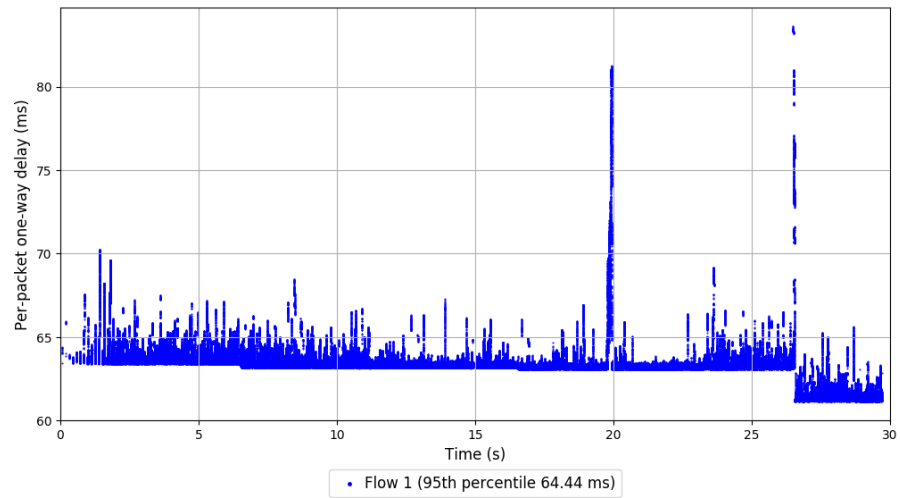
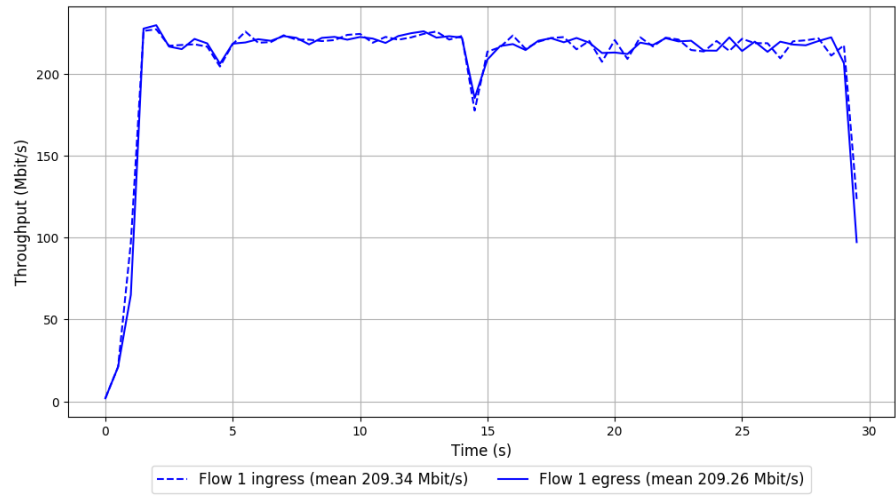
-- Flow 1:

Average throughput: 209.26 Mbit/s

95th percentile per-packet one-way delay: 64.438 ms

Loss rate: 0.45%

### Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-09-21 20:14:23

End at: 2017-09-21 20:14:53

# Below is generated by plot.py at 2017-09-21 23:58:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 213.07 Mbit/s

95th percentile per-packet one-way delay: 64.244 ms

Loss rate: 0.44%

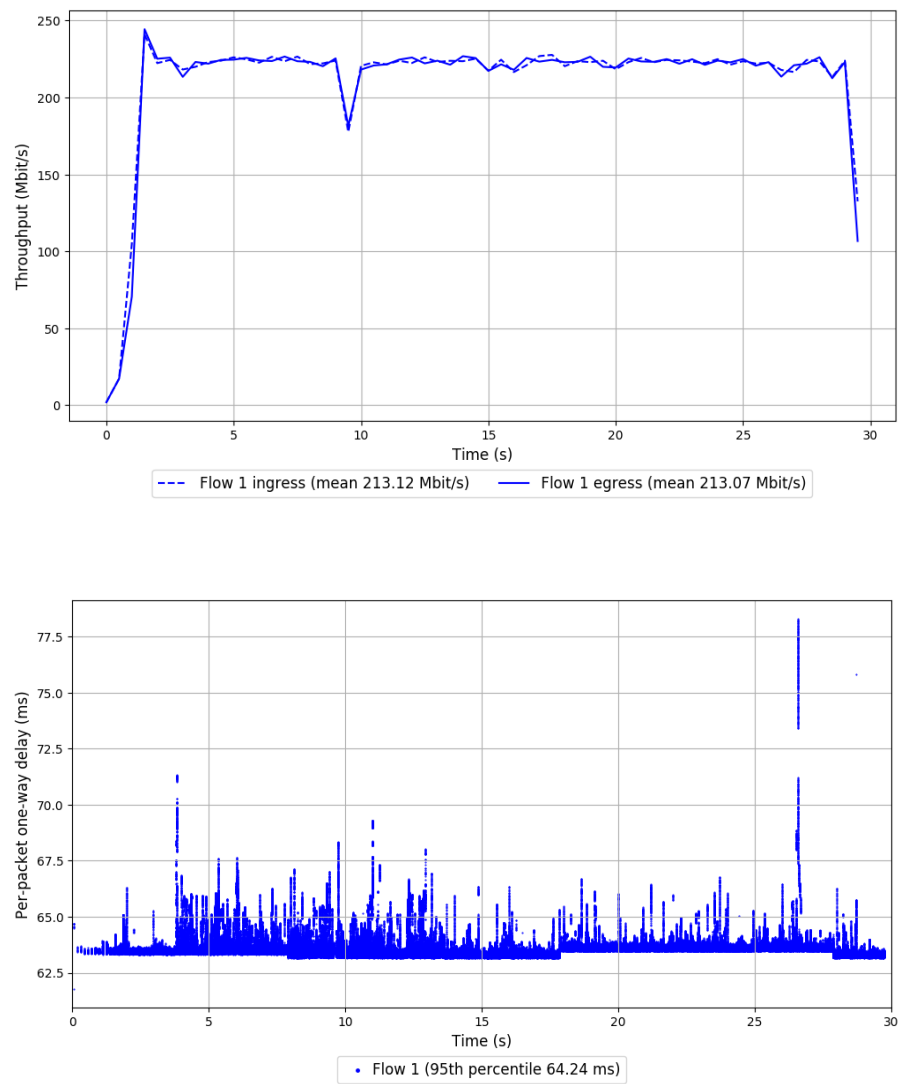
-- Flow 1:

Average throughput: 213.07 Mbit/s

95th percentile per-packet one-way delay: 64.244 ms

Loss rate: 0.44%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-09-21 20:25:04

End at: 2017-09-21 20:25:34

# Below is generated by plot.py at 2017-09-21 23:59:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 207.64 Mbit/s

95th percentile per-packet one-way delay: 64.340 ms

Loss rate: 0.45%

-- Flow 1:

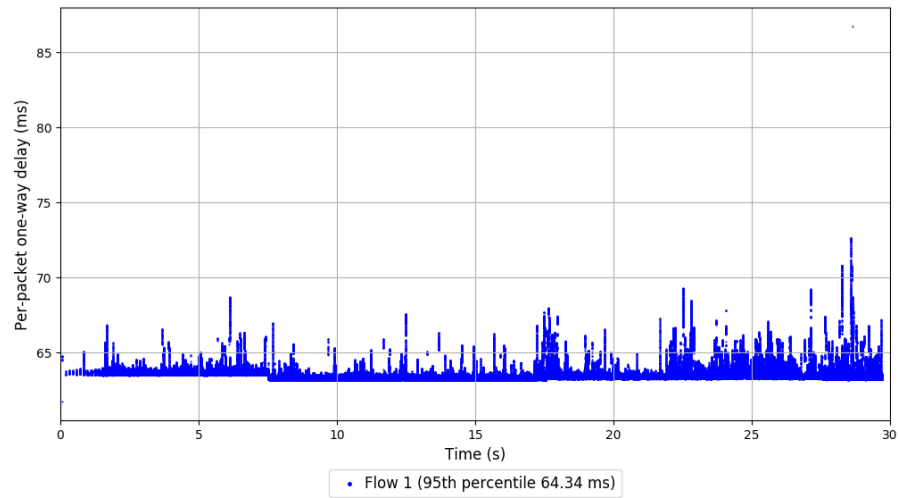
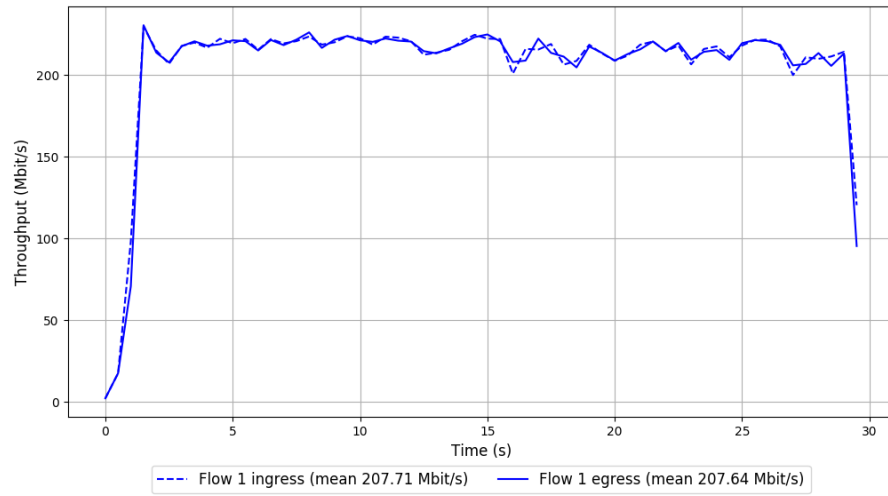
Average throughput: 207.64 Mbit/s

95th percentile per-packet one-way delay: 64.340 ms

Loss rate: 0.45%



### Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-09-21 20:35:39

End at: 2017-09-21 20:36:09

# Below is generated by plot.py at 2017-09-21 23:59:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 201.42 Mbit/s

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

Loss rate: 0.43%

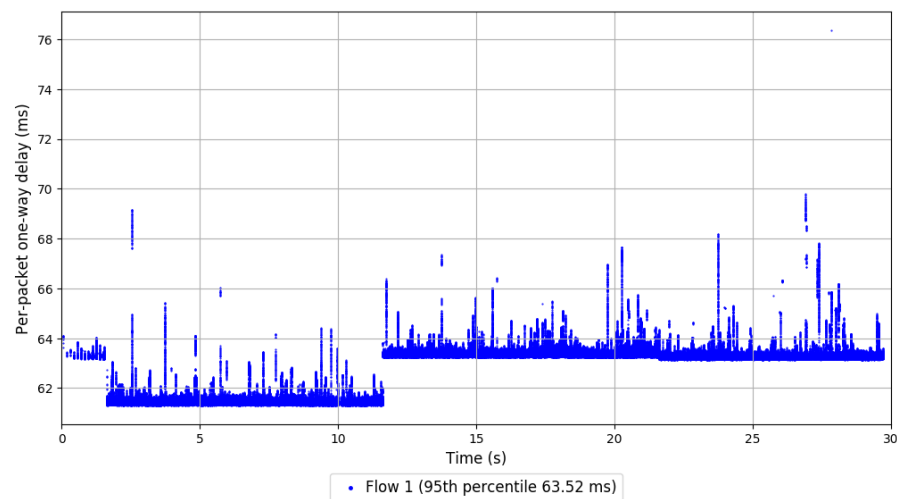
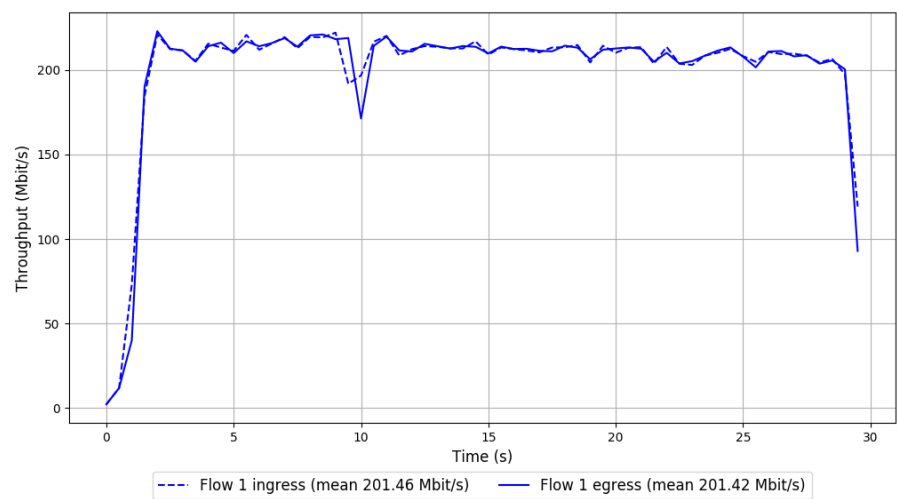
-- Flow 1:

Average throughput: 201.42 Mbit/s

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

Loss rate: 0.43%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-09-21 20:46:37

End at: 2017-09-21 20:47:07

# Below is generated by plot.py at 2017-09-21 23:59:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 203.97 Mbit/s

95th percentile per-packet one-way delay: 64.608 ms

Loss rate: 0.45%

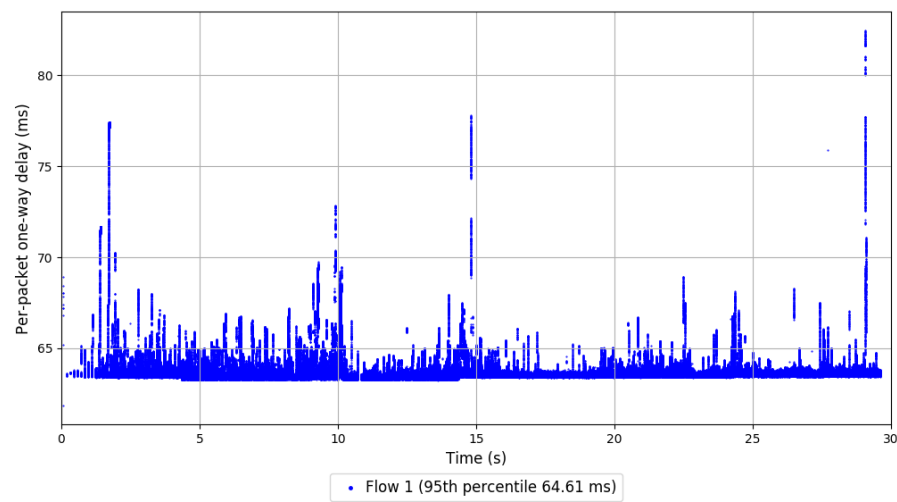
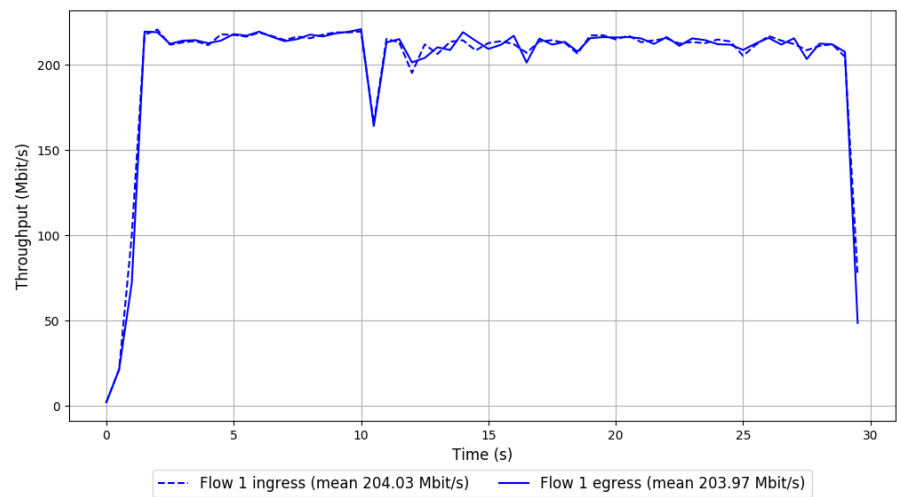
-- Flow 1:

Average throughput: 203.97 Mbit/s

95th percentile per-packet one-way delay: 64.608 ms

Loss rate: 0.45%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-09-21 20:57:13

End at: 2017-09-21 20:57:43

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 210.34 Mbit/s

95th percentile per-packet one-way delay: 64.133 ms

Loss rate: 0.44%

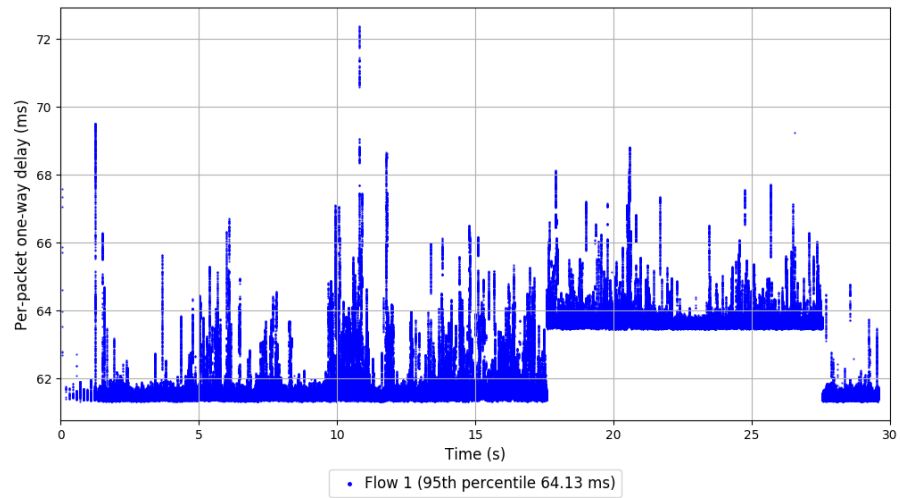
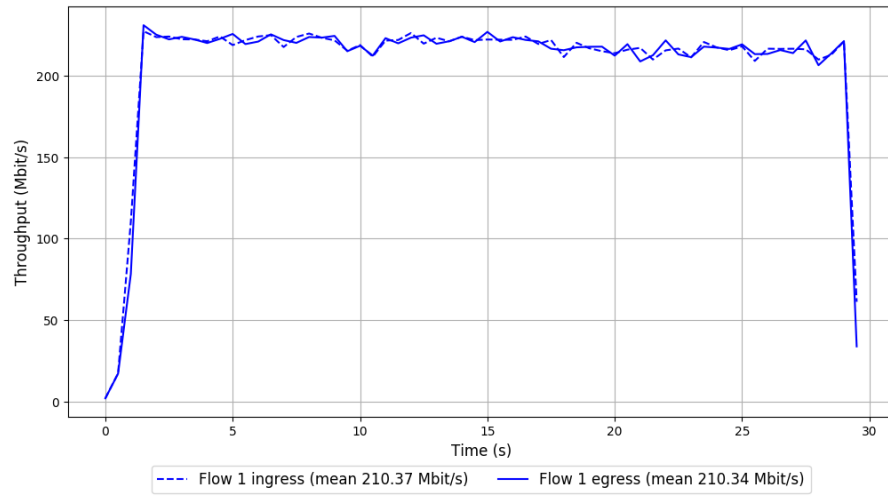
-- Flow 1:

Average throughput: 210.34 Mbit/s

95th percentile per-packet one-way delay: 64.133 ms

Loss rate: 0.44%

# Run 8: Report of Indigo-calib — Data Link



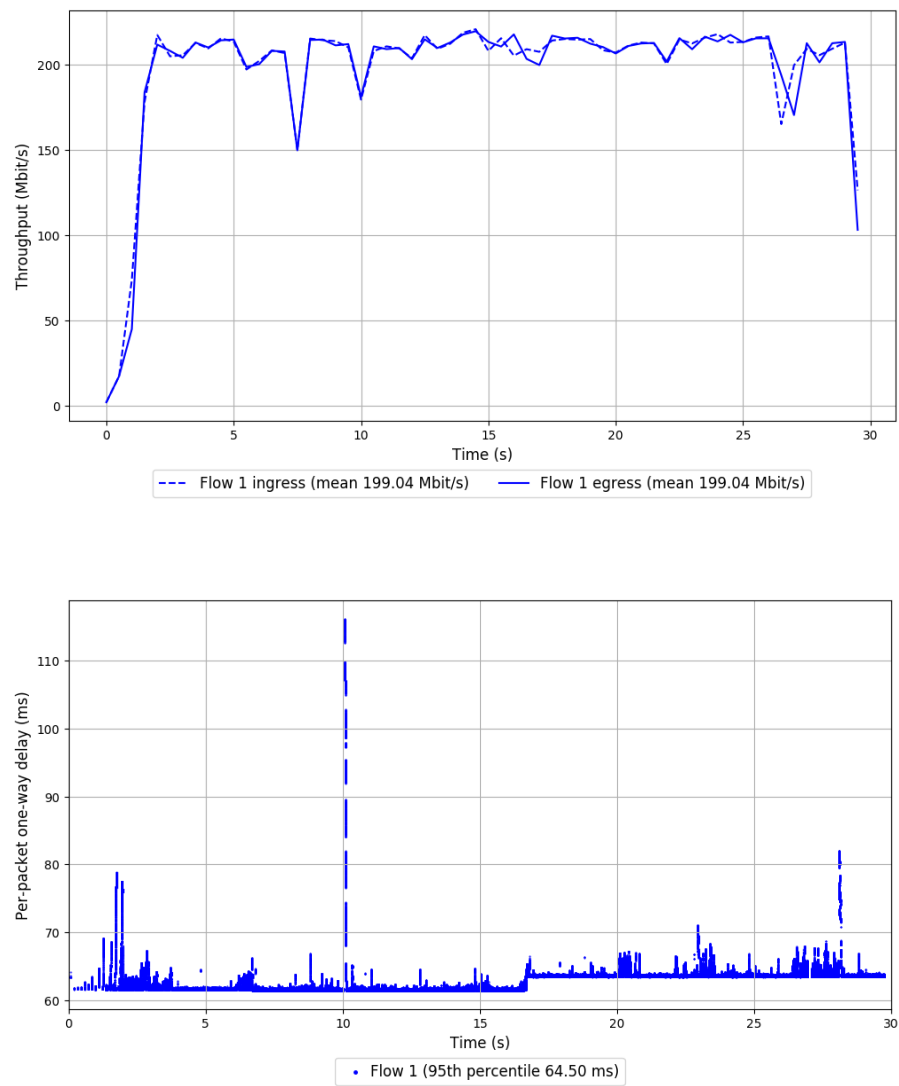
```
Run 9: Statistics of Indigo-calib

Start at: 2017-09-21 21:07:54
End at: 2017-09-21 21:08:24

# Below is generated by plot.py at 2017-09-22 00:01:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 199.04 Mbit/s
95th percentile per-packet one-way delay: 64.499 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 199.04 Mbit/s
95th percentile per-packet one-way delay: 64.499 ms
Loss rate: 0.42%
```



Run 9: Report of Indigo-calib — Data Link

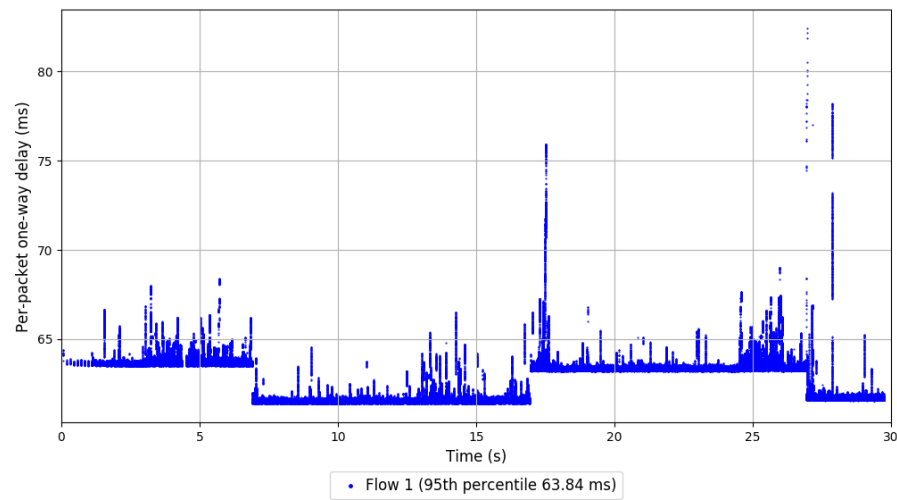
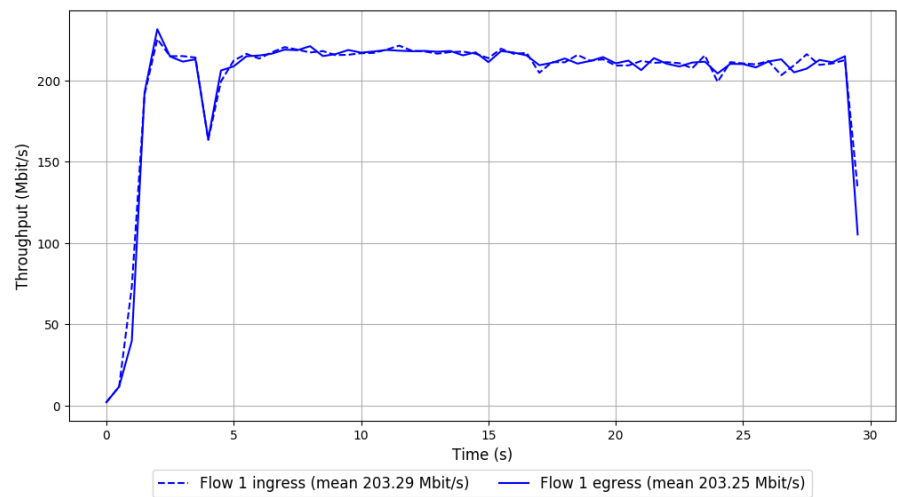


```
Run 10: Statistics of Indigo-calib

Start at: 2017-09-21 21:18:44
End at: 2017-09-21 21:19:14

# Below is generated by plot.py at 2017-09-22 00:01:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 203.25 Mbit/s
95th percentile per-packet one-way delay: 63.836 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 203.25 Mbit/s
95th percentile per-packet one-way delay: 63.836 ms
Loss rate: 0.44%
```

Run 10: Report of Indigo-calib — Data Link

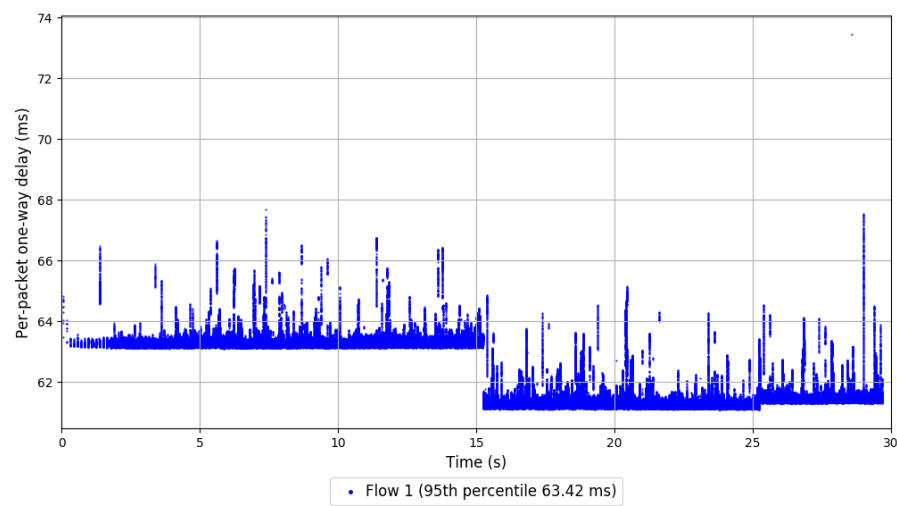
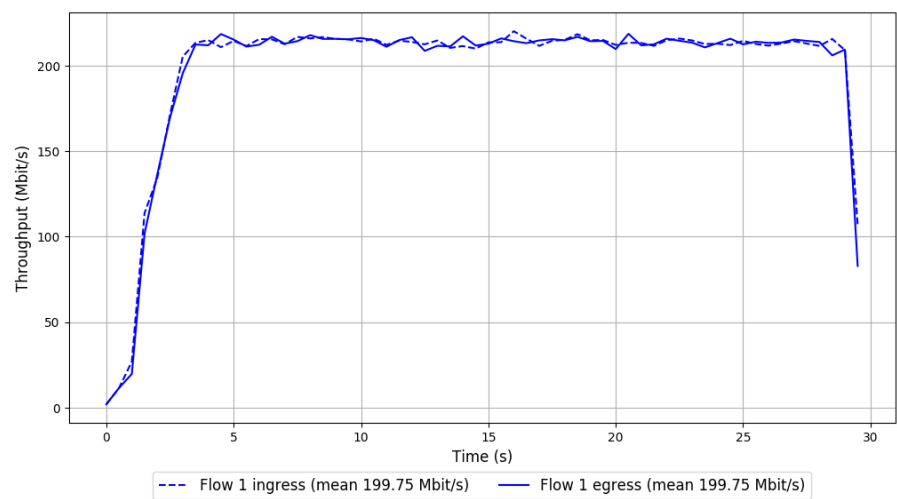


```
Run 1: Statistics of Indigo-delay

Start at: 2017-09-21 19:45:26
End at: 2017-09-21 19:45:56

# Below is generated by plot.py at 2017-09-22 00:01:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 199.75 Mbit/s
95th percentile per-packet one-way delay: 63.420 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 199.75 Mbit/s
95th percentile per-packet one-way delay: 63.420 ms
Loss rate: 0.45%
```

Run 1: Report of Indigo-delay — Data Link

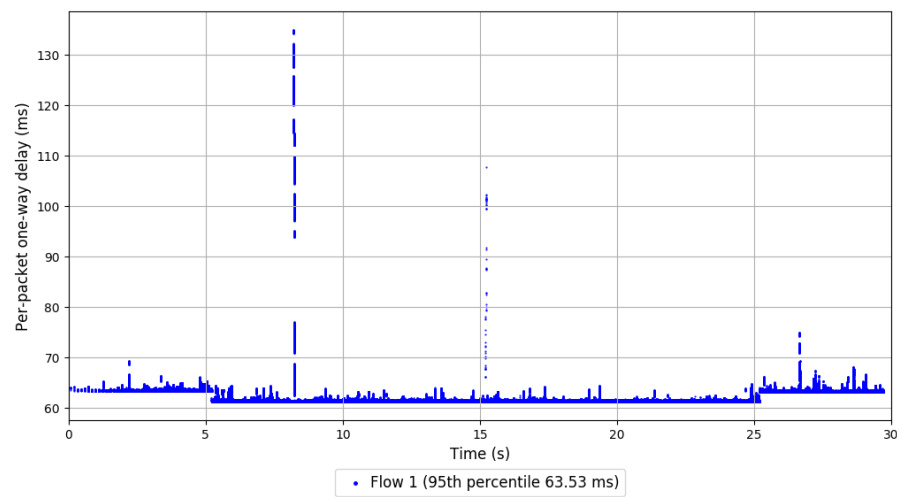
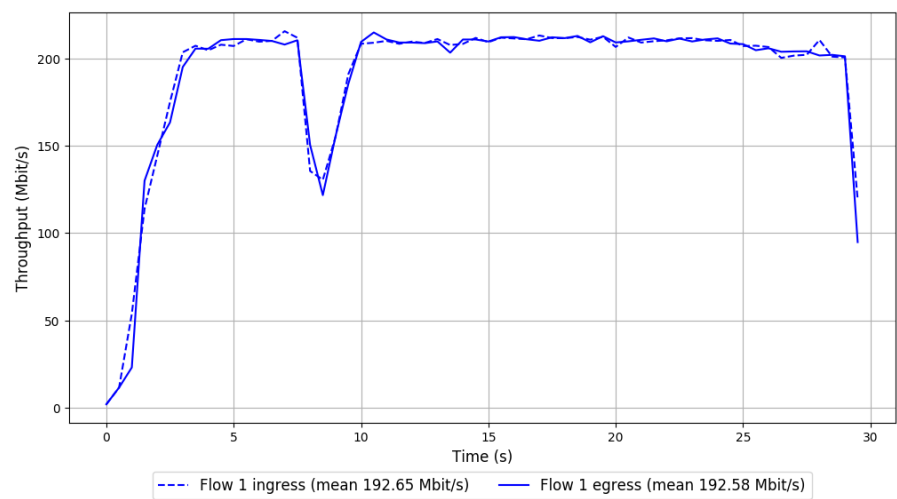


```
Run 2: Statistics of Indigo-delay

Start at: 2017-09-21 19:55:56
End at: 2017-09-21 19:56:26

# Below is generated by plot.py at 2017-09-22 00:02:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 192.58 Mbit/s
95th percentile per-packet one-way delay: 63.531 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 192.58 Mbit/s
95th percentile per-packet one-way delay: 63.531 ms
Loss rate: 0.46%
```

Run 2: Report of Indigo-delay — Data Link



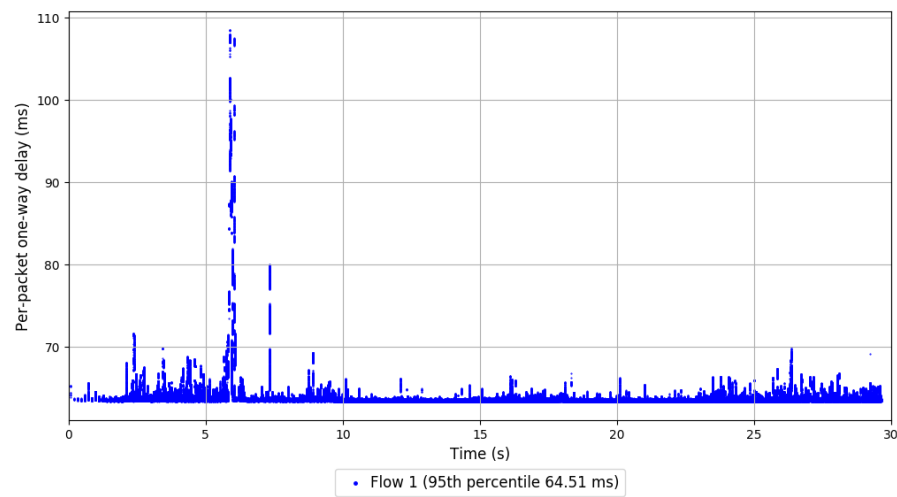
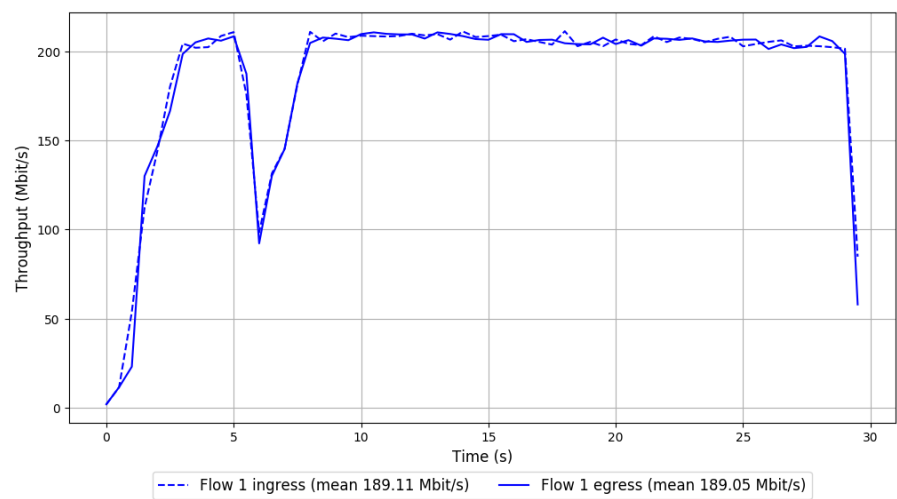
```
Run 3: Statistics of Indigo-delay

Start at: 2017-09-21 20:06:31
End at: 2017-09-21 20:07:01

# Below is generated by plot.py at 2017-09-22 00:03:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 189.05 Mbit/s
95th percentile per-packet one-way delay: 64.510 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 189.05 Mbit/s
95th percentile per-packet one-way delay: 64.510 ms
Loss rate: 0.46%
```



Run 3: Report of Indigo-delay — Data Link



Run 4: Statistics of Indigo-delay

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

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

# Below is generated by plot.py at 2017-09-22 00:03:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 191.15 Mbit/s

95th percentile per-packet one-way delay: 61.982 ms

Loss rate: 0.45%

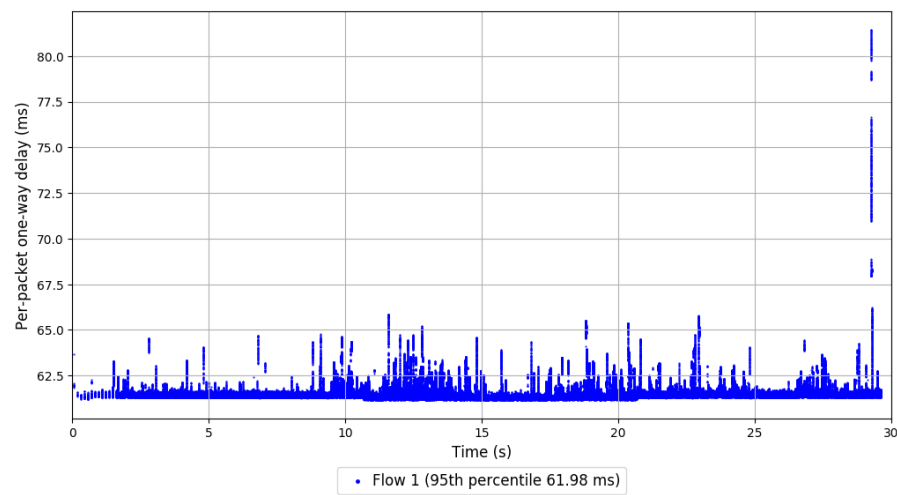
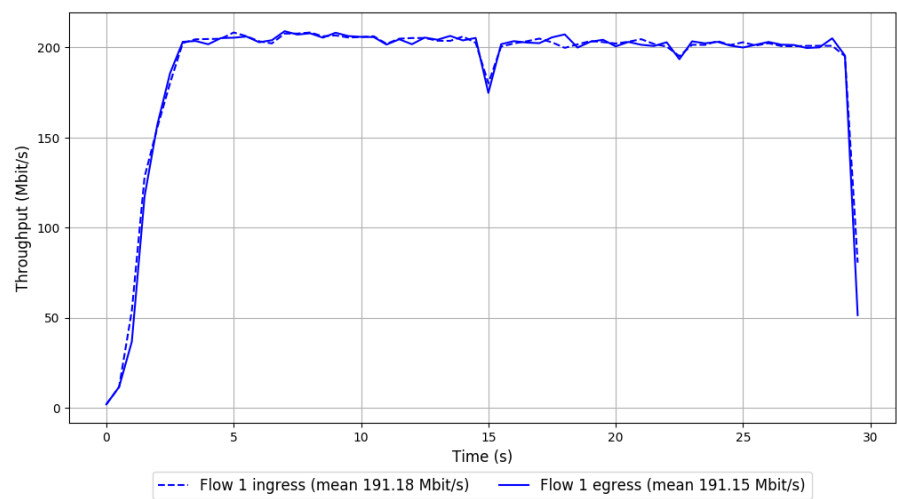
-- Flow 1:

Average throughput: 191.15 Mbit/s

95th percentile per-packet one-way delay: 61.982 ms

Loss rate: 0.45%

Run 4: Report of Indigo-delay — Data Link



Run 5: Statistics of Indigo-delay

Start at: 2017-09-21 20:28:01

End at: 2017-09-21 20:28:31

# Below is generated by plot.py at 2017-09-22 00:03:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 180.51 Mbit/s

95th percentile per-packet one-way delay: 63.448 ms

Loss rate: 0.44%

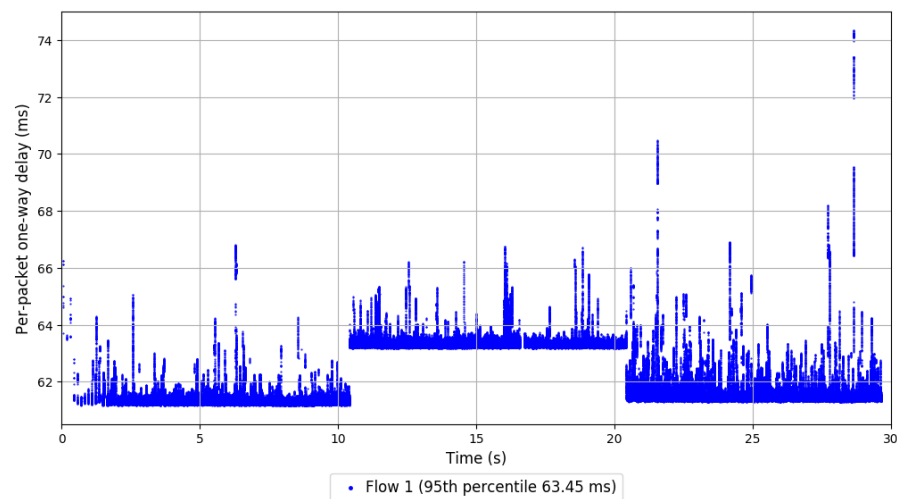
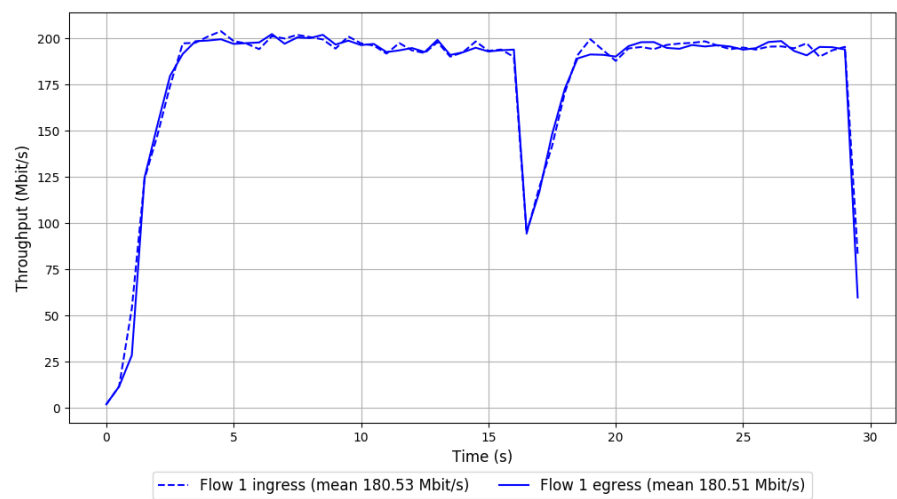
-- Flow 1:

Average throughput: 180.51 Mbit/s

95th percentile per-packet one-way delay: 63.448 ms

Loss rate: 0.44%

Run 5: Report of Indigo-delay — Data Link



Run 6: Statistics of Indigo-delay

Start at: 2017-09-21 20:38:36

End at: 2017-09-21 20:39:06

# Below is generated by plot.py at 2017-09-22 00:04:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 200.42 Mbit/s

95th percentile per-packet one-way delay: 63.892 ms

Loss rate: 0.40%

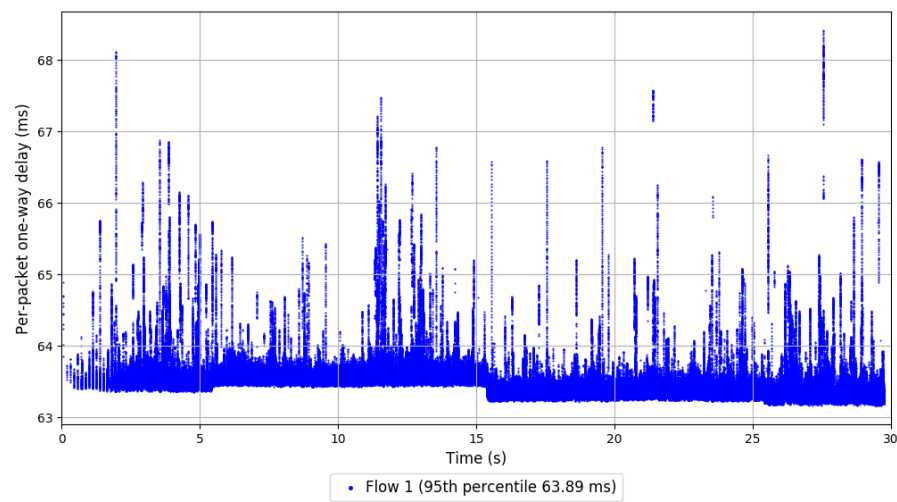
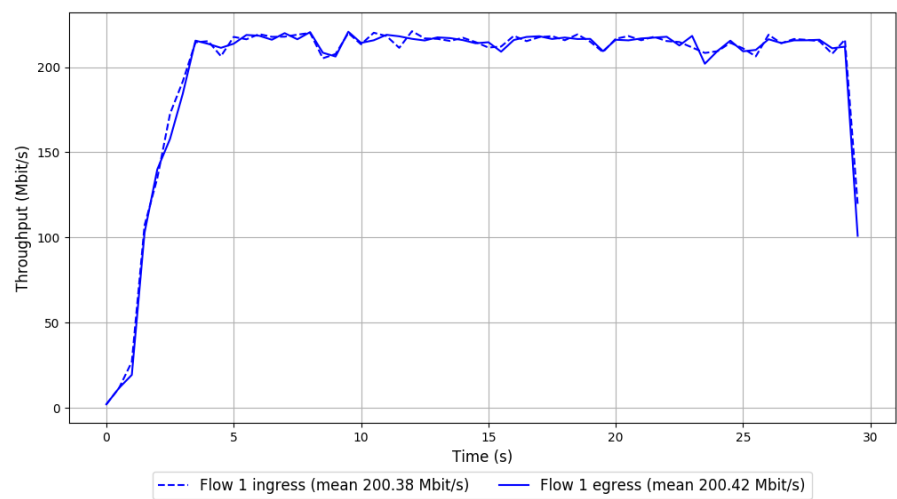
-- Flow 1:

Average throughput: 200.42 Mbit/s

95th percentile per-packet one-way delay: 63.892 ms

Loss rate: 0.40%

Run 6: Report of Indigo-delay — Data Link



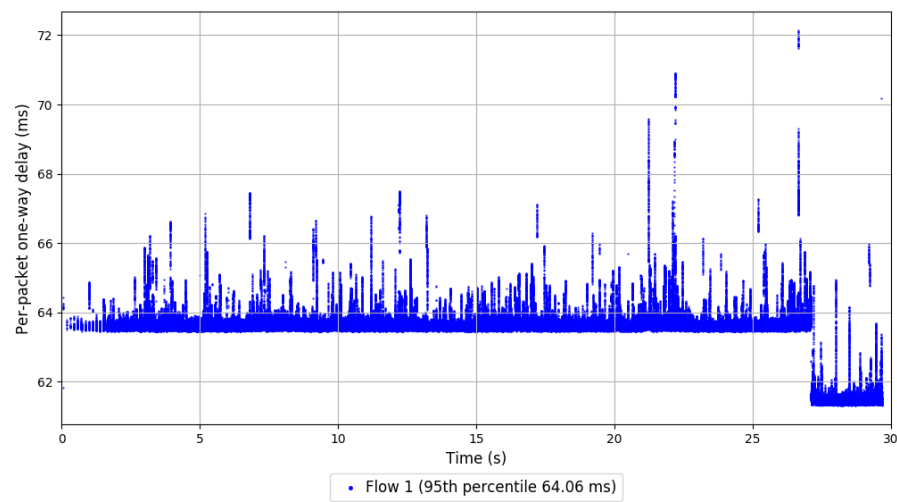
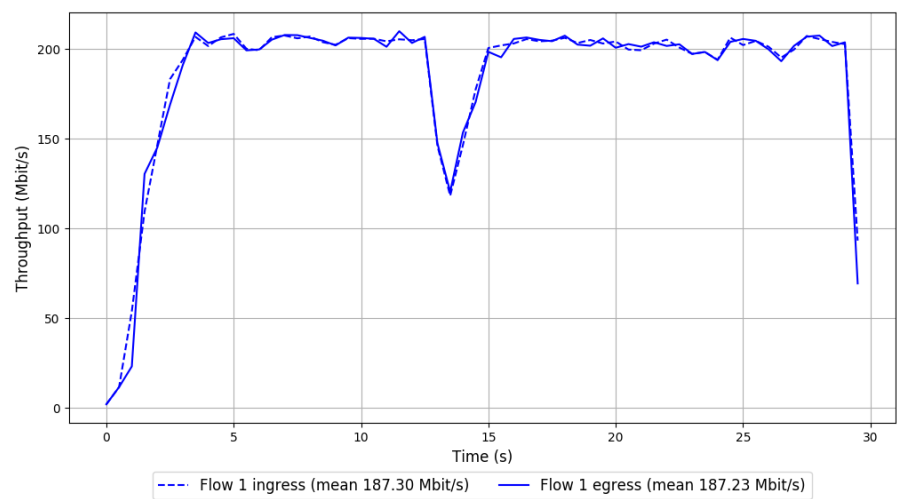
```
Run 7: Statistics of Indigo-delay

Start at: 2017-09-21 20:49:34
End at: 2017-09-21 20:50:04

# Below is generated by plot.py at 2017-09-22 00:04:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 187.23 Mbit/s
95th percentile per-packet one-way delay: 64.058 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 187.23 Mbit/s
95th percentile per-packet one-way delay: 64.058 ms
Loss rate: 0.45%
```



Run 7: Report of Indigo-delay — Data Link



Run 8: Statistics of Indigo-delay

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

End at: 2017-09-21 21:00:41

# Below is generated by plot.py at 2017-09-22 00:04:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 185.74 Mbit/s

95th percentile per-packet one-way delay: 64.249 ms

Loss rate: 0.46%

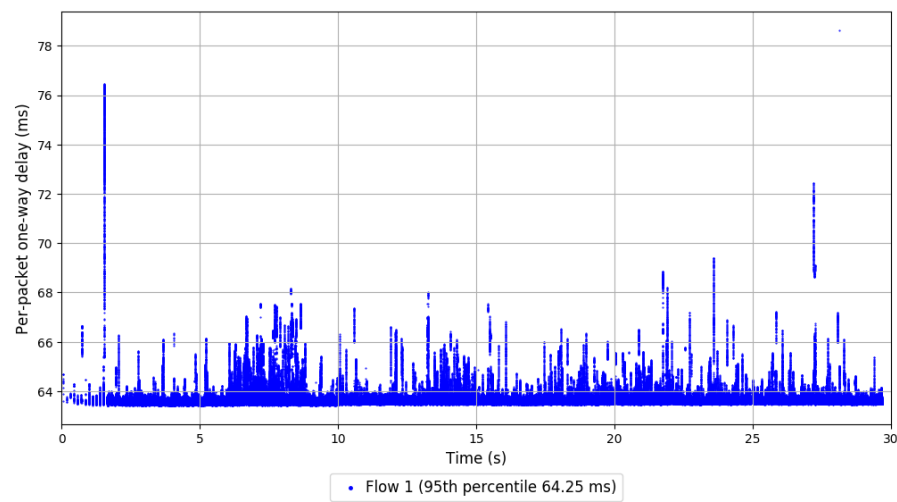
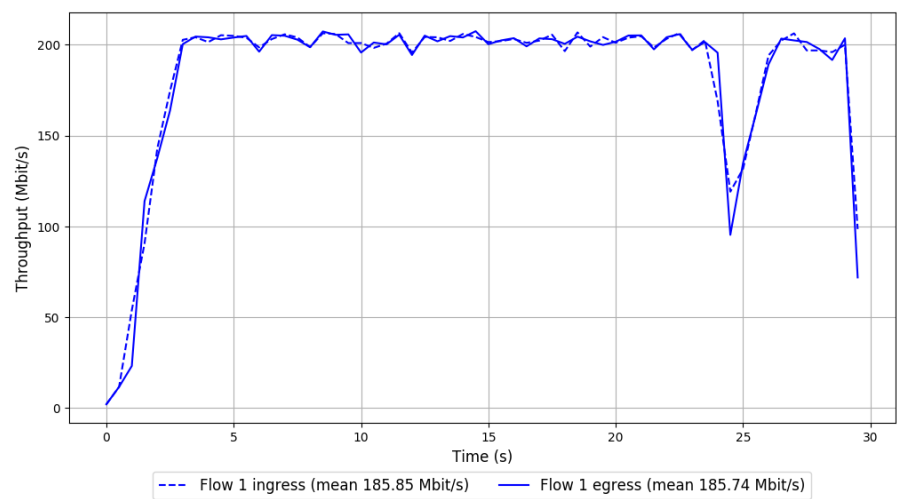
-- Flow 1:

Average throughput: 185.74 Mbit/s

95th percentile per-packet one-way delay: 64.249 ms

Loss rate: 0.46%

Run 8: Report of Indigo-delay — Data Link

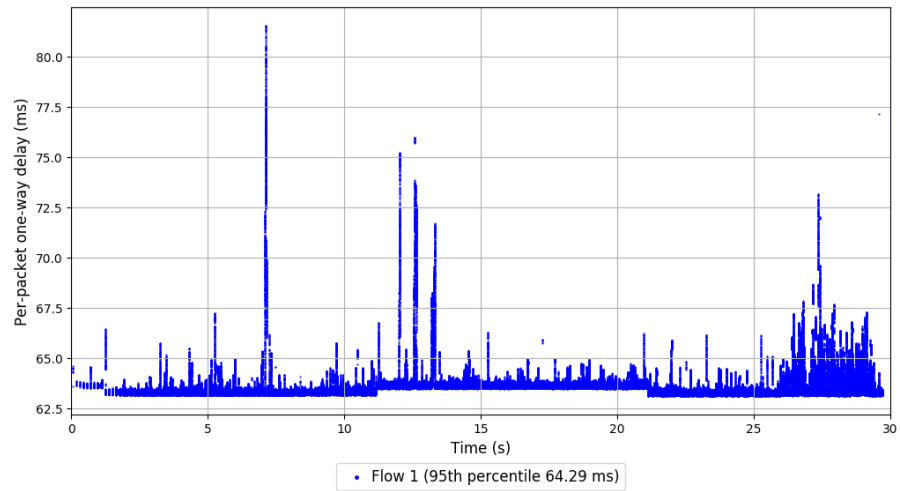
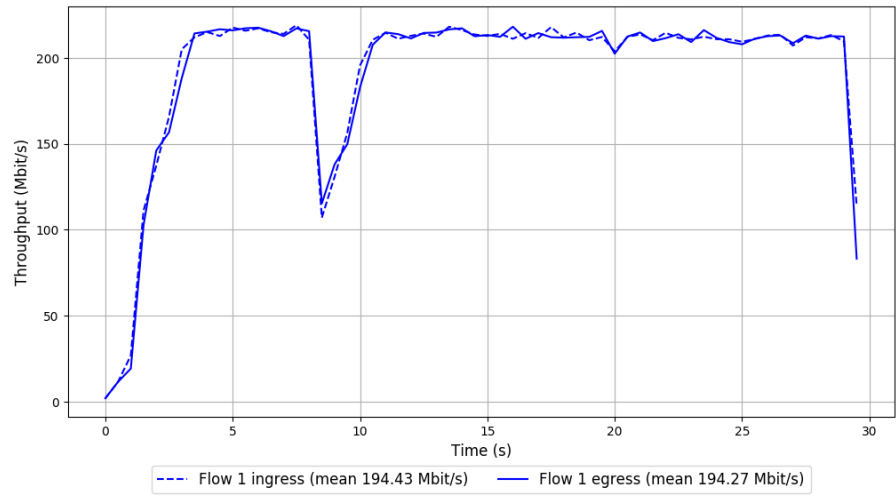


```
Run 9: Statistics of Indigo-delay

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

# Below is generated by plot.py at 2017-09-22 00:04:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 194.27 Mbit/s
95th percentile per-packet one-way delay: 64.291 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 194.27 Mbit/s
95th percentile per-packet one-way delay: 64.291 ms
Loss rate: 0.47%
```

### Run 9: Report of Indigo-delay — Data Link



Run 10: Statistics of Indigo-delay

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

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

# Below is generated by plot.py at 2017-09-22 00:04:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 196.25 Mbit/s

95th percentile per-packet one-way delay: 64.302 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 196.25 Mbit/s

95th percentile per-packet one-way delay: 64.302 ms

Loss rate: 0.47%

Run 10: Report of Indigo-delay — Data Link

