

## Pantheon Report

Generated at 2017-09-21 23:52:21 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

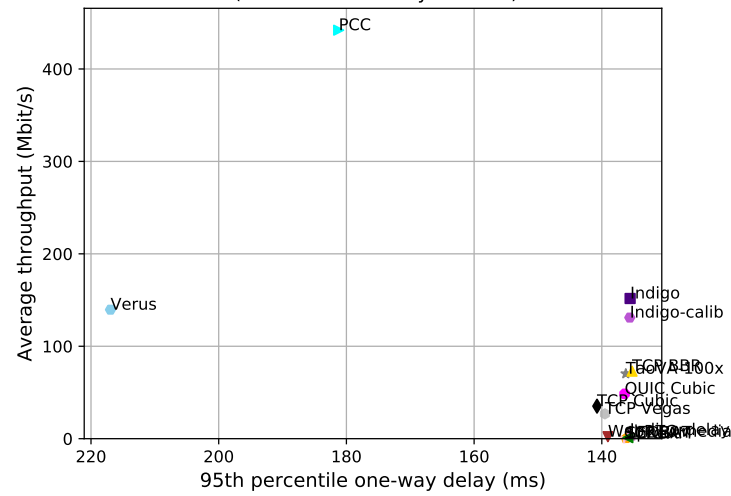
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

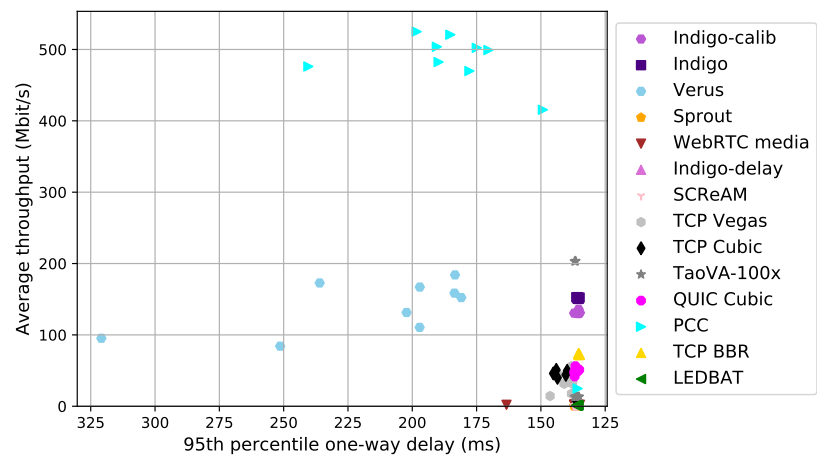
Git summary:

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	73.08	135.26	1.04
TCP Cubic	7	35.20	140.75	1.28
LEDBAT	10	1.11	135.92	1.62
PCC	10	441.97	181.21	3.27
QUIC Cubic	10	48.52	136.43	1.41
SCReAM	10	0.22	136.51	0.89
WebRTC media	10	2.12	139.05	1.24
Sprout	9	0.42	136.20	0.91
TaoVA-100x	10	70.31	136.25	1.00
TCP Vegas	10	26.86	139.51	0.73
Verus	9	139.58	216.95	2.76
Indigo	10	151.68	135.57	1.00
Indigo-calib	10	131.02	135.62	0.99
Indigo-delay	10	3.97	135.62	0.69

Run 1: Statistics of TCP BBR

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

End at: 2017-09-21 19:49:18

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 72.08 Mbit/s

95th percentile per-packet one-way delay: 134.833 ms

Loss rate: 1.00%

-- Flow 1:

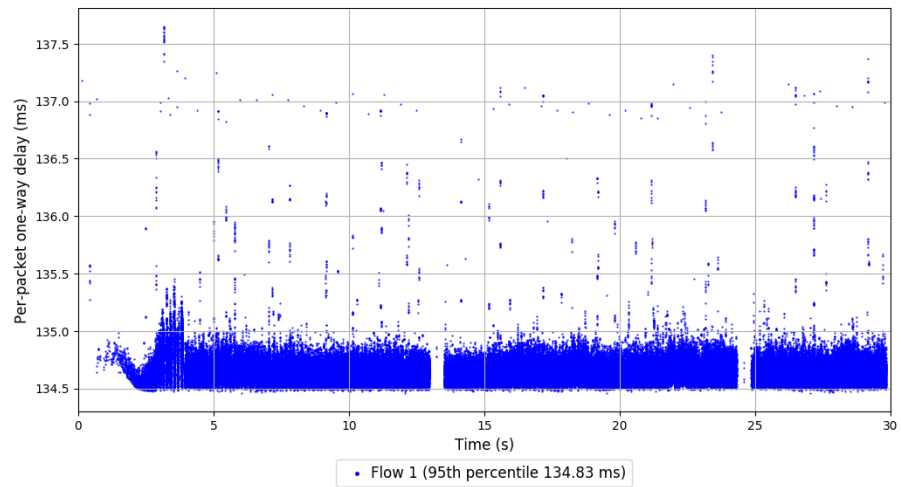
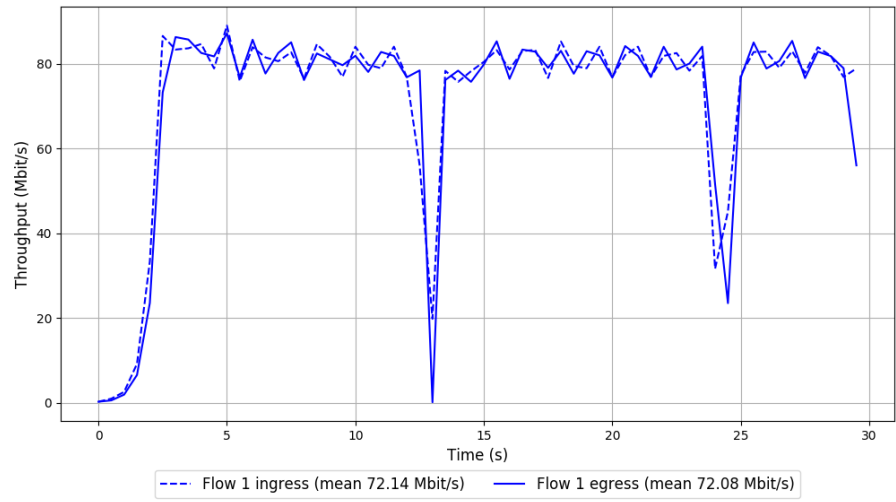
Average throughput: 72.08 Mbit/s

95th percentile per-packet one-way delay: 134.833 ms

Loss rate: 1.00%



# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

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

End at: 2017-09-21 20:00:29

# Below is generated by plot.py at 2017-09-21 23:27:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 73.81 Mbit/s

95th percentile per-packet one-way delay: 135.319 ms

Loss rate: 0.99%

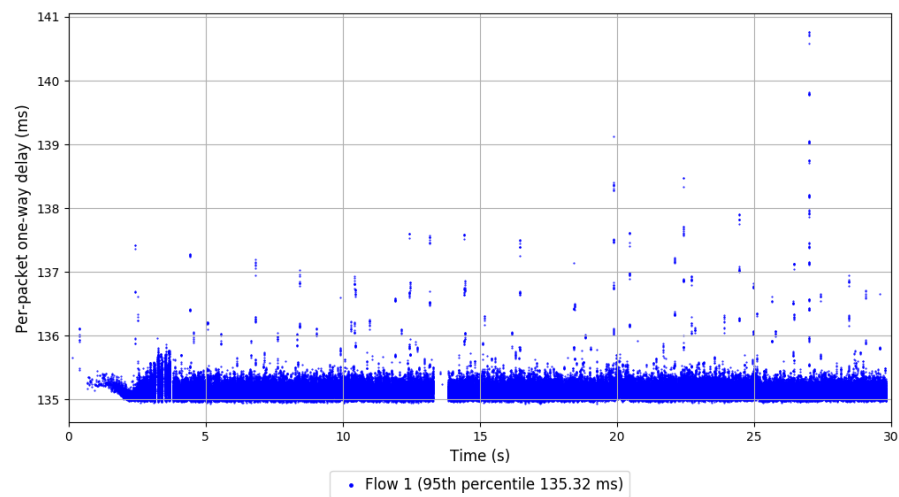
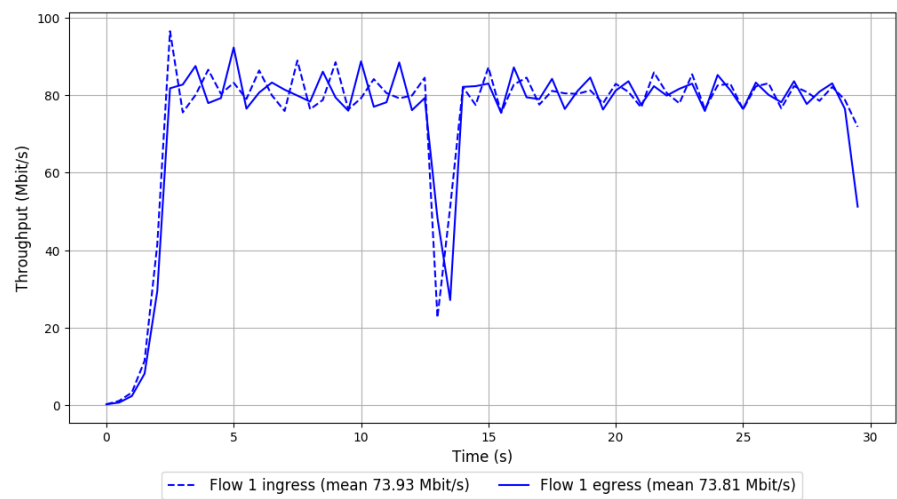
-- Flow 1:

Average throughput: 73.81 Mbit/s

95th percentile per-packet one-way delay: 135.319 ms

Loss rate: 0.99%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-09-21 20:11:29

End at: 2017-09-21 20:11:59

# Below is generated by plot.py at 2017-09-21 23:27:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 72.57 Mbit/s

95th percentile per-packet one-way delay: 135.329 ms

Loss rate: 1.06%

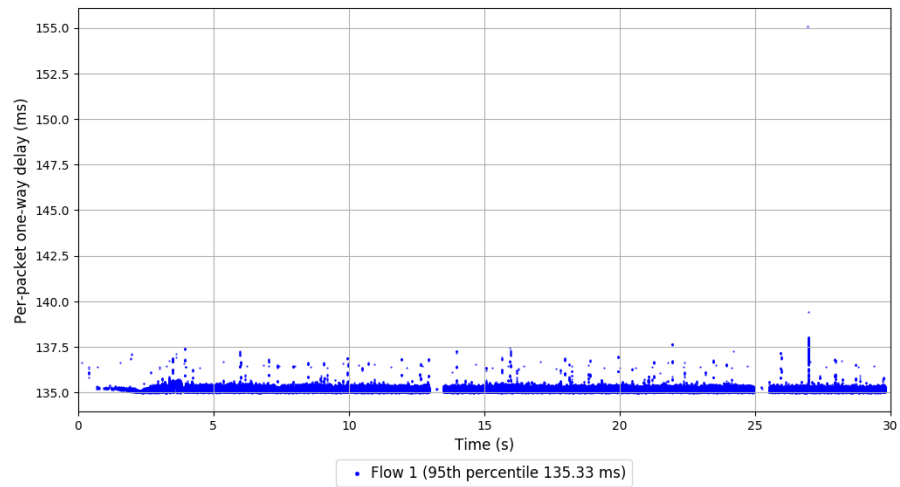
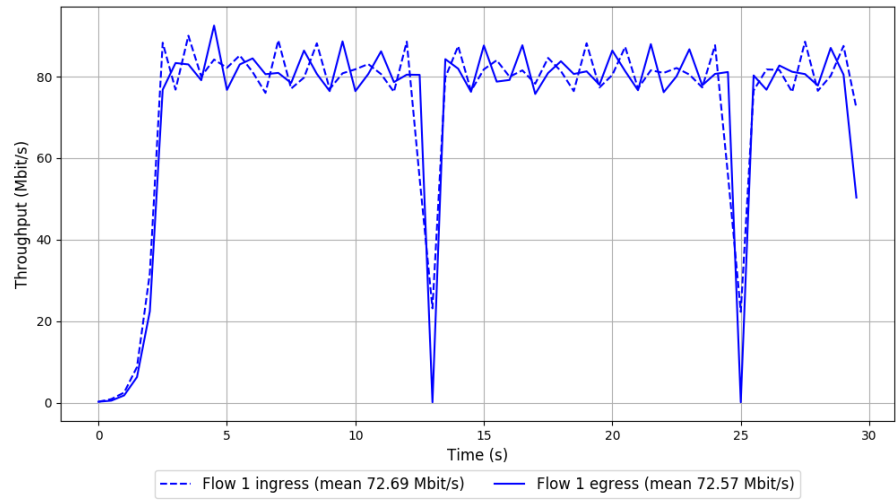
-- Flow 1:

Average throughput: 72.57 Mbit/s

95th percentile per-packet one-way delay: 135.329 ms

Loss rate: 1.06%

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



Run 4: Statistics of TCP BBR

Start at: 2017-09-21 20:22:44

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

# Below is generated by plot.py at 2017-09-21 23:27:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 73.75 Mbit/s

95th percentile per-packet one-way delay: 135.338 ms

Loss rate: 1.08%

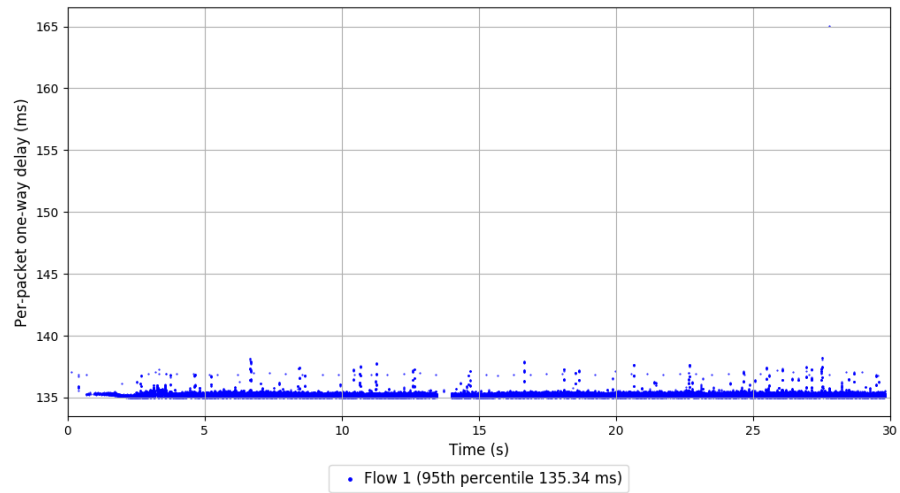
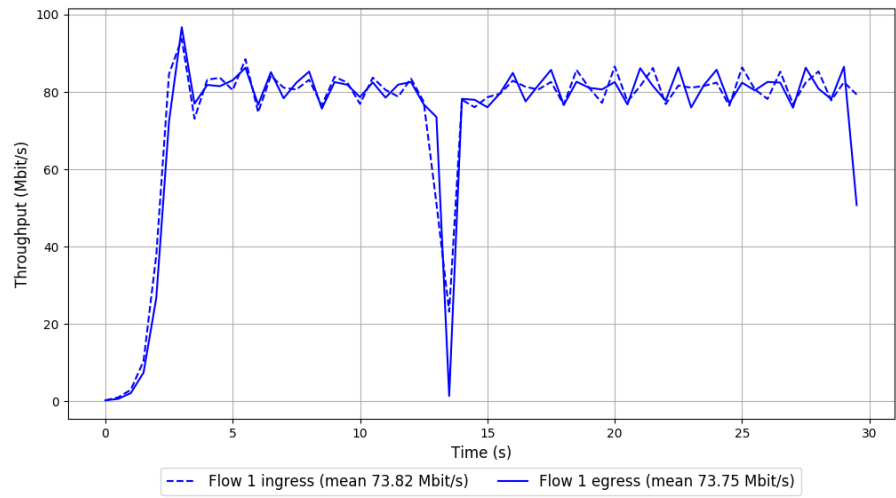
-- Flow 1:

Average throughput: 73.75 Mbit/s

95th percentile per-packet one-way delay: 135.338 ms

Loss rate: 1.08%

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



Run 5: Statistics of TCP BBR

Start at: 2017-09-21 20:33:44

End at: 2017-09-21 20:34:14

# Below is generated by plot.py at 2017-09-21 23:27:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 72.10 Mbit/s

95th percentile per-packet one-way delay: 135.343 ms

Loss rate: 1.11%

-- Flow 1:

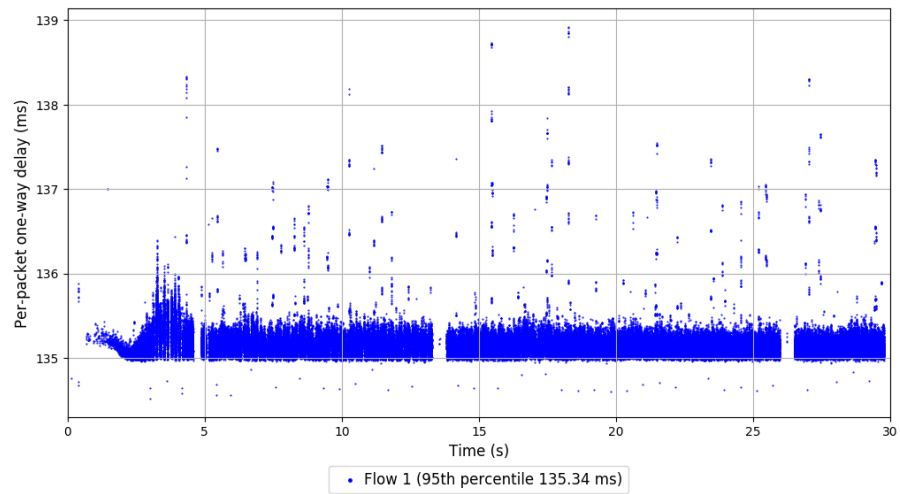
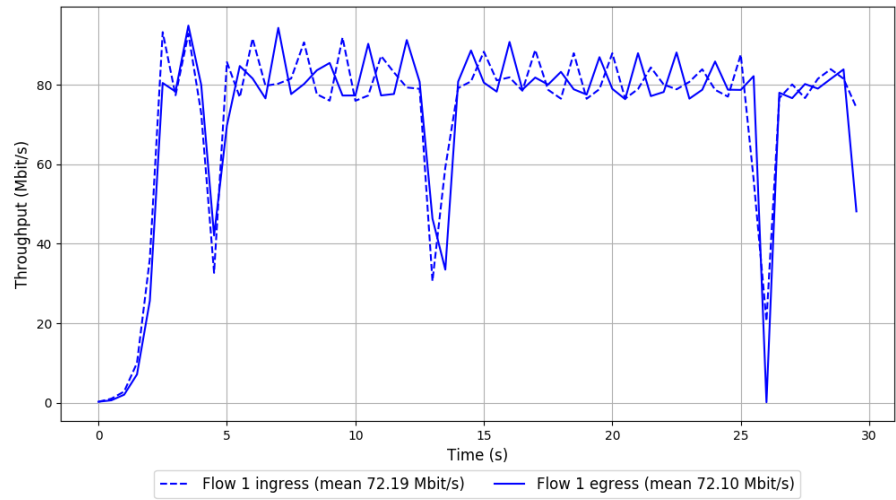
Average throughput: 72.10 Mbit/s

95th percentile per-packet one-way delay: 135.343 ms

Loss rate: 1.11%



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



Run 6: Statistics of TCP BBR

Start at: 2017-09-21 20:44:53

End at: 2017-09-21 20:45:24

# Below is generated by plot.py at 2017-09-21 23:27:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.68 Mbit/s

95th percentile per-packet one-way delay: 135.325 ms

Loss rate: 1.07%

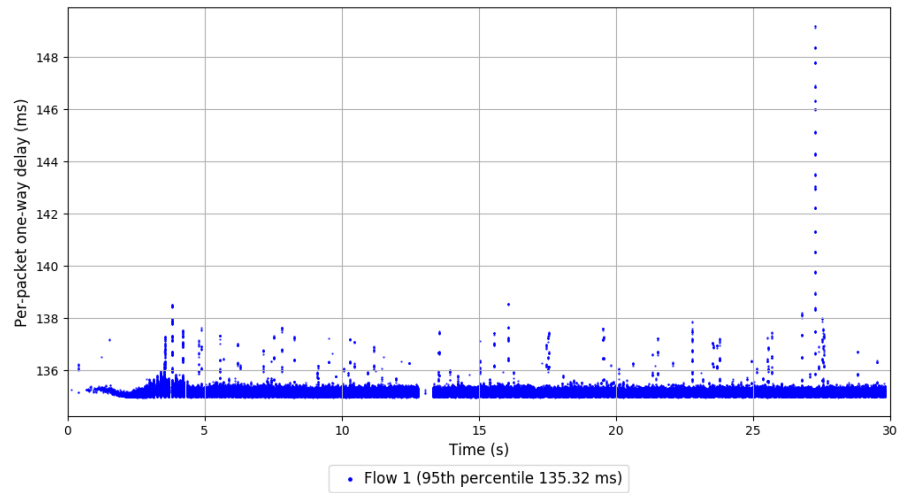
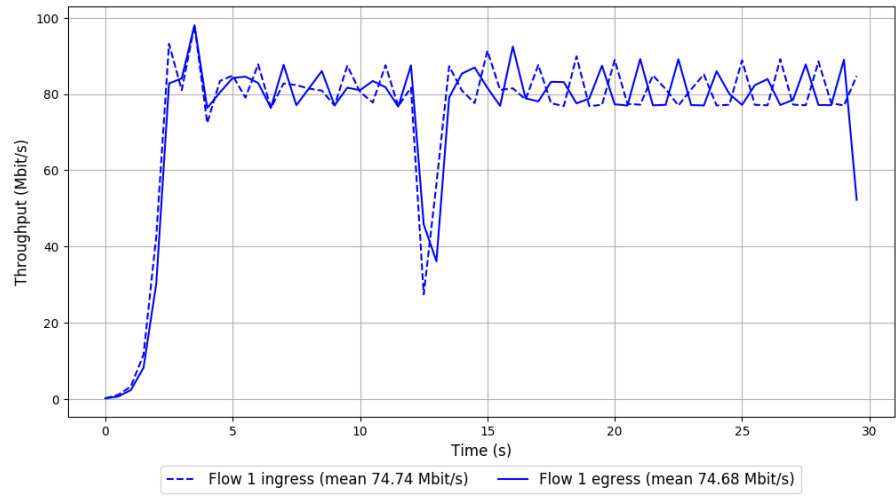
-- Flow 1:

Average throughput: 74.68 Mbit/s

95th percentile per-packet one-way delay: 135.325 ms

Loss rate: 1.07%

# Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-09-21 20:56:43

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

# Below is generated by plot.py at 2017-09-21 23:27:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 73.30 Mbit/s

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

Loss rate: 0.97%

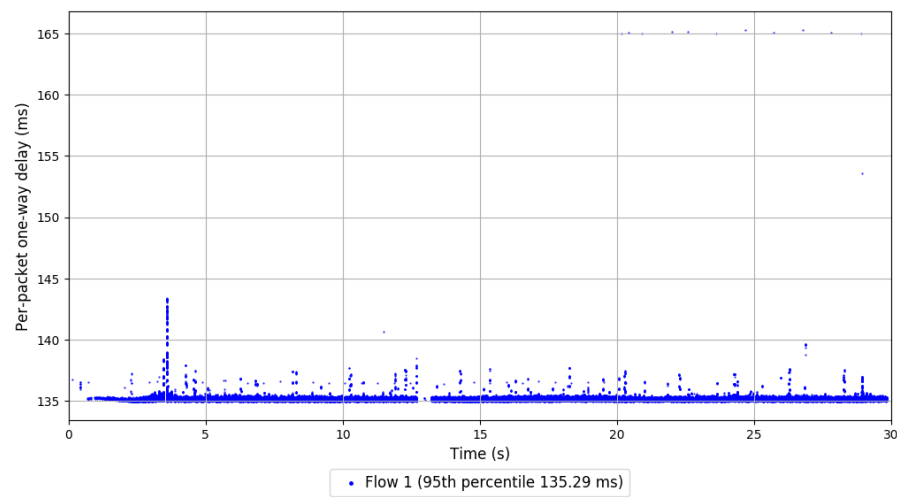
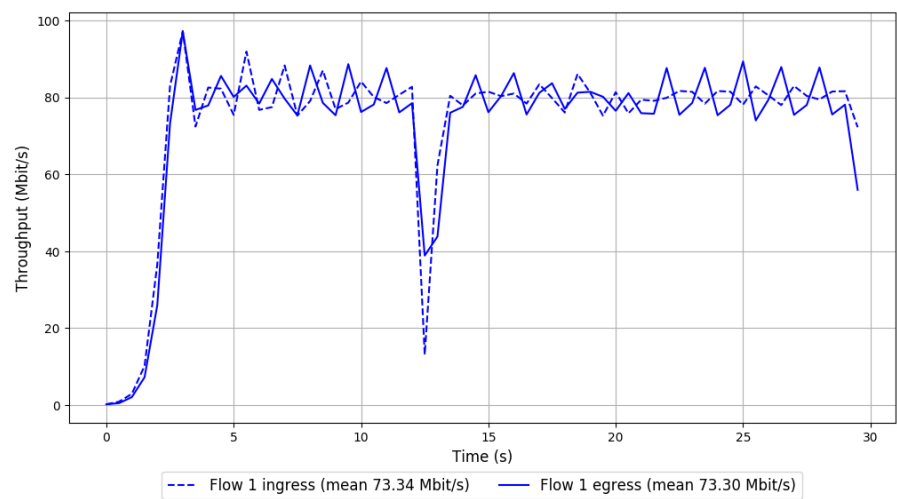
-- Flow 1:

Average throughput: 73.30 Mbit/s

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

Loss rate: 0.97%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

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

End at: 2017-09-21 21:08:38

# Below is generated by plot.py at 2017-09-21 23:27:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 73.02 Mbit/s

95th percentile per-packet one-way delay: 135.284 ms

Loss rate: 1.02%

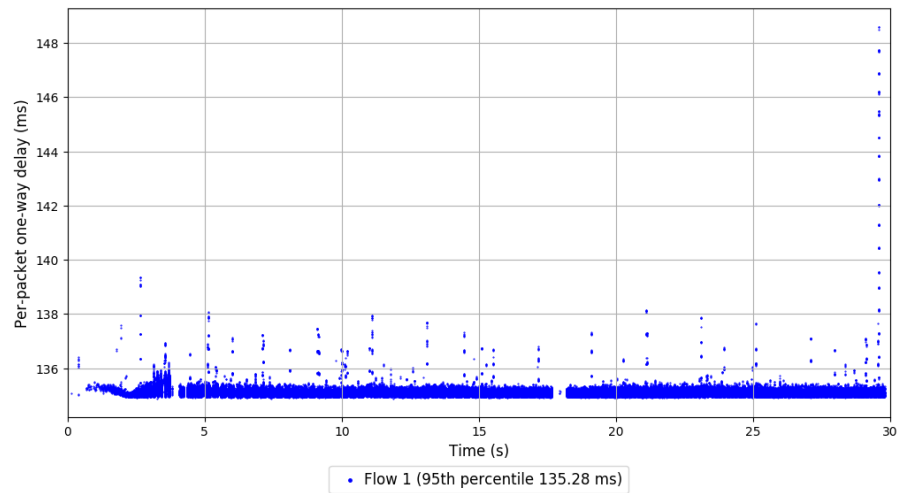
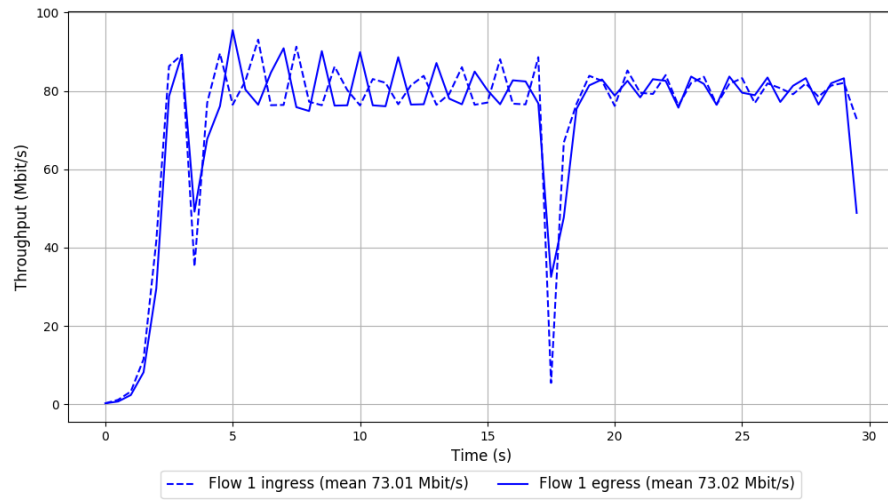
-- Flow 1:

Average throughput: 73.02 Mbit/s

95th percentile per-packet one-way delay: 135.284 ms

Loss rate: 1.02%

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



Run 9: Statistics of TCP BBR

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

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

# Below is generated by plot.py at 2017-09-21 23:28:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 71.56 Mbit/s

95th percentile per-packet one-way delay: 135.284 ms

Loss rate: 0.99%

-- Flow 1:

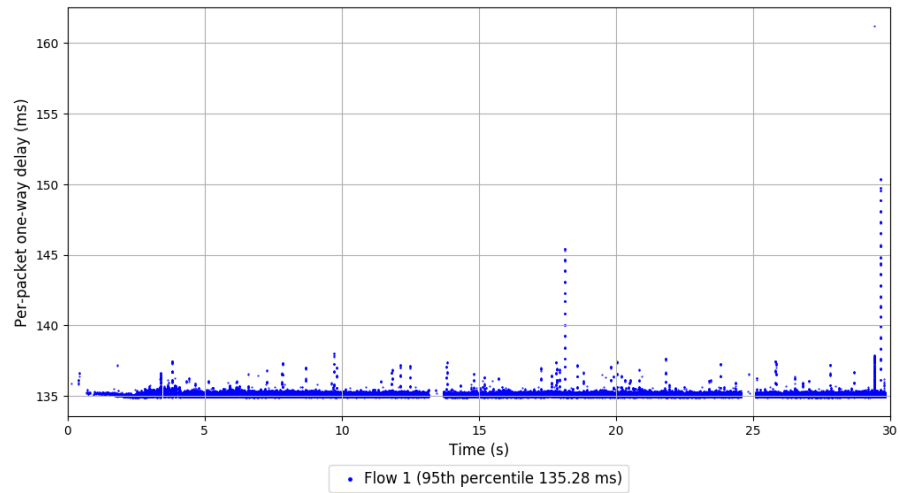
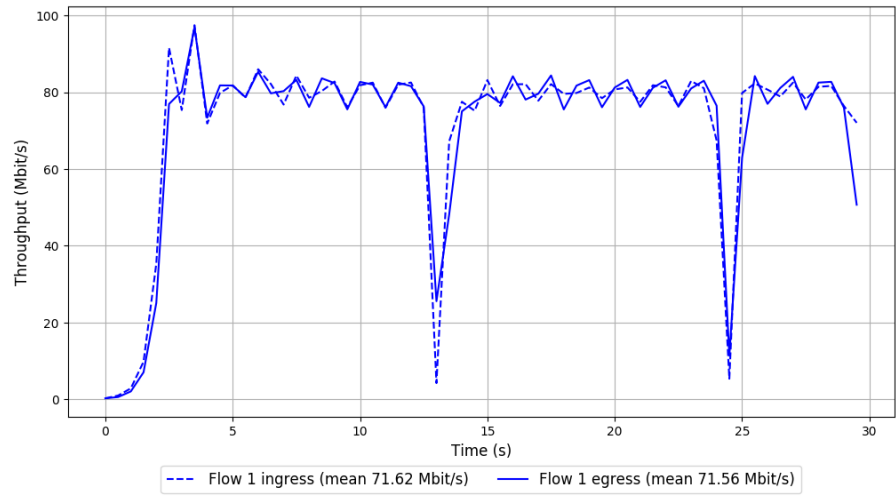
Average throughput: 71.56 Mbit/s

95th percentile per-packet one-way delay: 135.284 ms

Loss rate: 0.99%



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



Run 10: Statistics of TCP BBR

Start at: 2017-09-21 21:30:56

End at: 2017-09-21 21:31:26

# Below is generated by plot.py at 2017-09-21 23:28:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 73.91 Mbit/s

95th percentile per-packet one-way delay: 135.304 ms

Loss rate: 1.08%

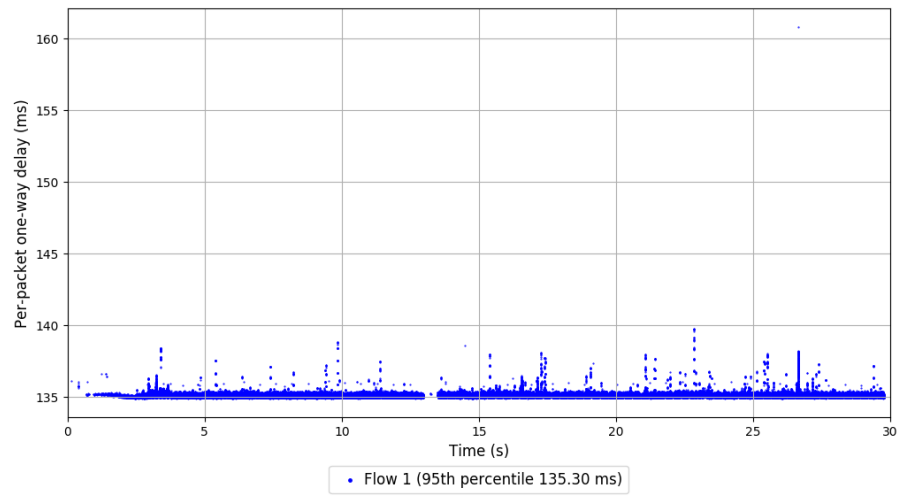
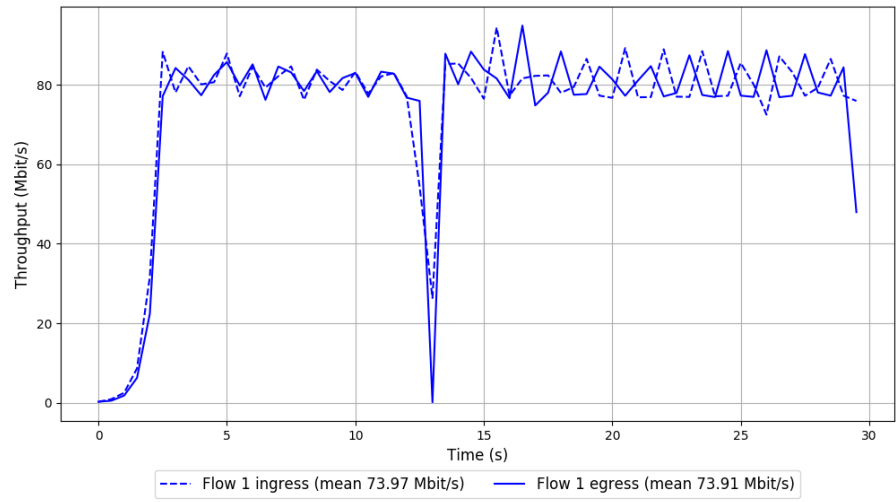
-- Flow 1:

Average throughput: 73.91 Mbit/s

95th percentile per-packet one-way delay: 135.304 ms

Loss rate: 1.08%

# Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-09-21 19:43:26

End at: 2017-09-21 19:43:56

# Below is generated by plot.py at 2017-09-21 23:28:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.60 Mbit/s

95th percentile per-packet one-way delay: 139.797 ms

Loss rate: 1.51%

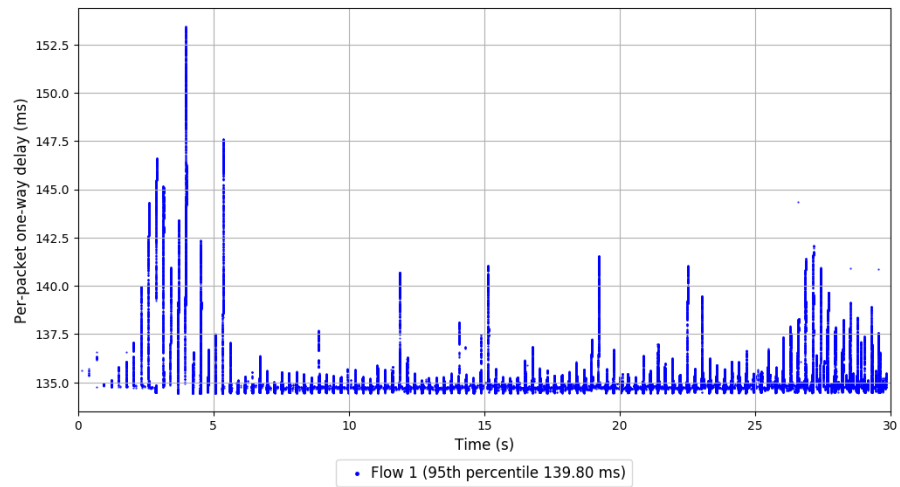
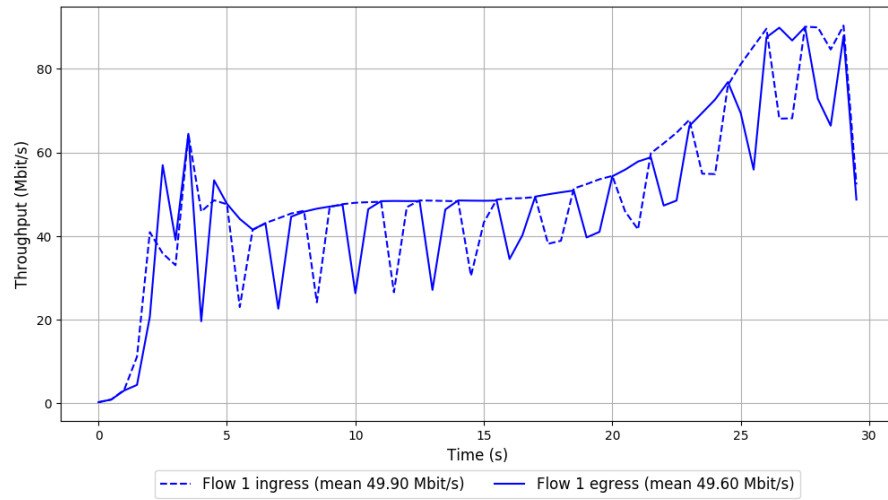
-- Flow 1:

Average throughput: 49.60 Mbit/s

95th percentile per-packet one-way delay: 139.797 ms

Loss rate: 1.51%

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



Run 2: Statistics of TCP Cubic

Start at: 2017-09-21 19:54:37

End at: 2017-09-21 19:55:07

# Below is generated by plot.py at 2017-09-21 23:28:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 8.44 Mbit/s

95th percentile per-packet one-way delay: 136.344 ms

Loss rate: 1.82%

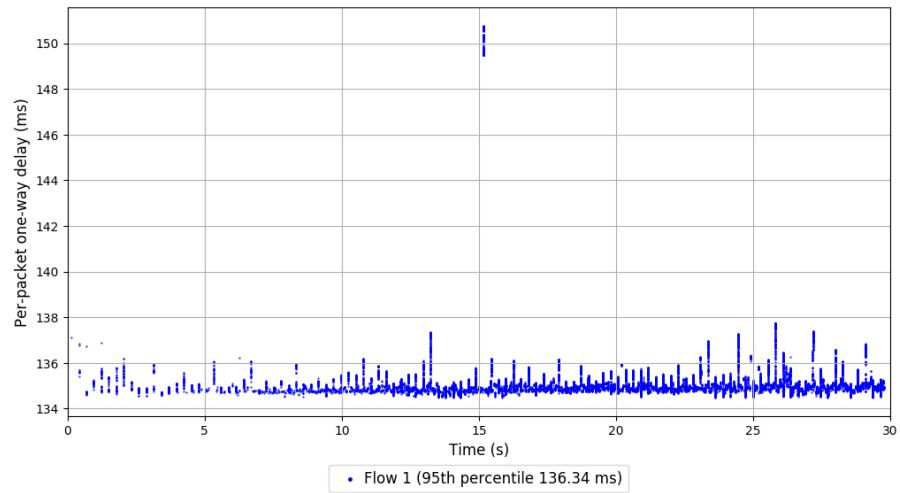
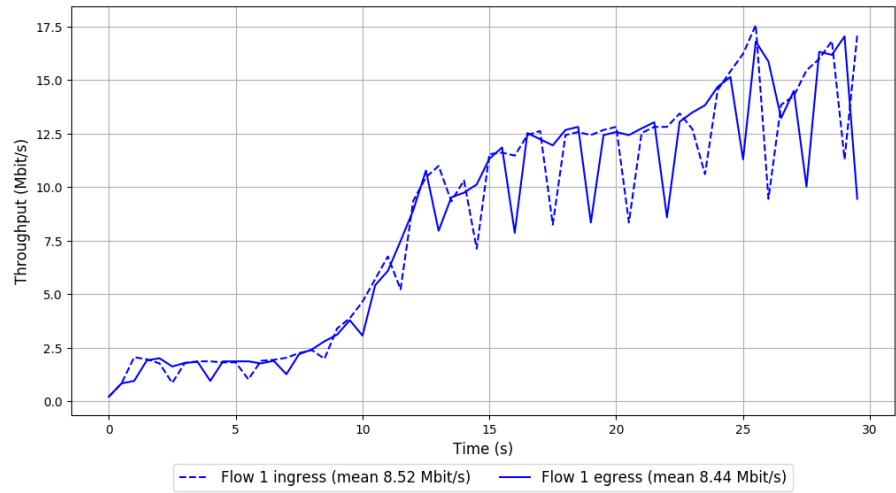
-- Flow 1:

Average throughput: 8.44 Mbit/s

95th percentile per-packet one-way delay: 136.344 ms

Loss rate: 1.82%

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



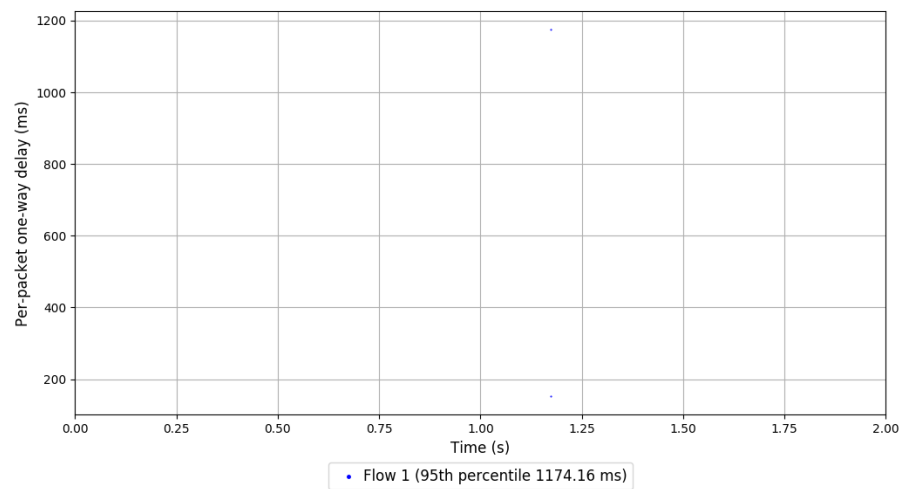
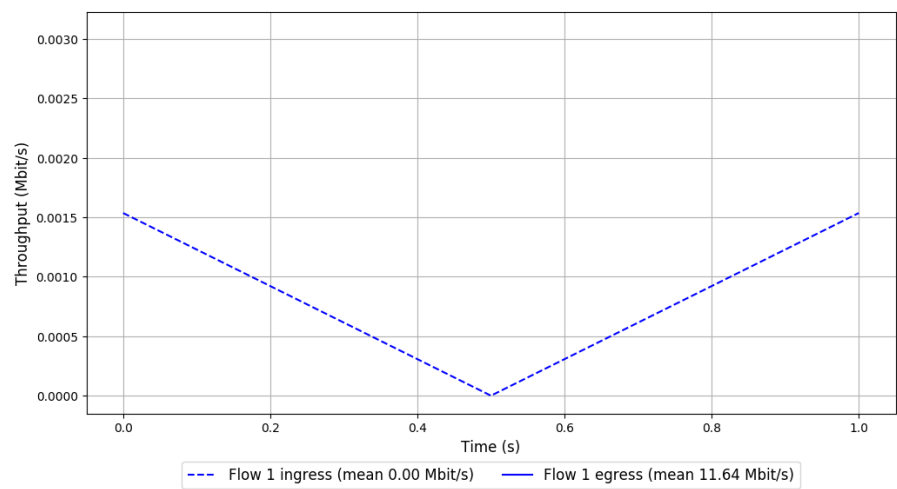
Run 3: Statistics of TCP Cubic

Start at: 2017-09-21 20:06:10

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



Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

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

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

# Below is generated by plot.py at 2017-09-21 23:28:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 44.02 Mbit/s

95th percentile per-packet one-way delay: 140.293 ms

Loss rate: 1.05%

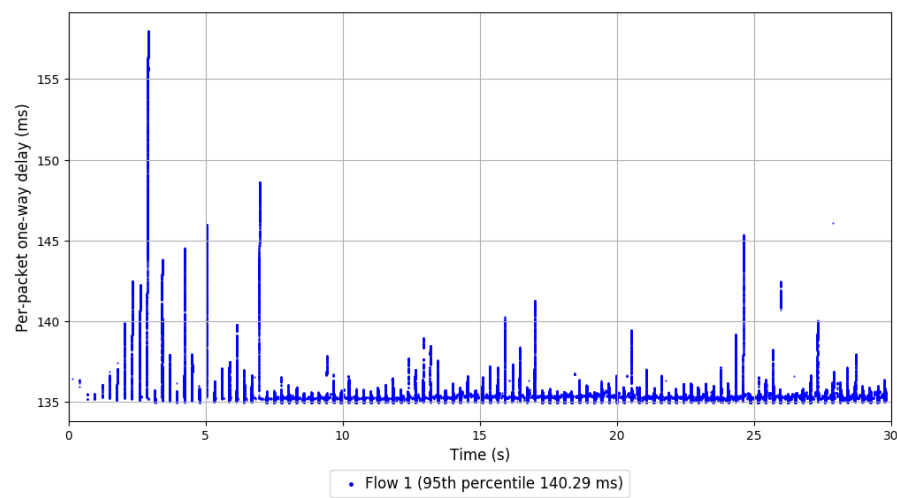
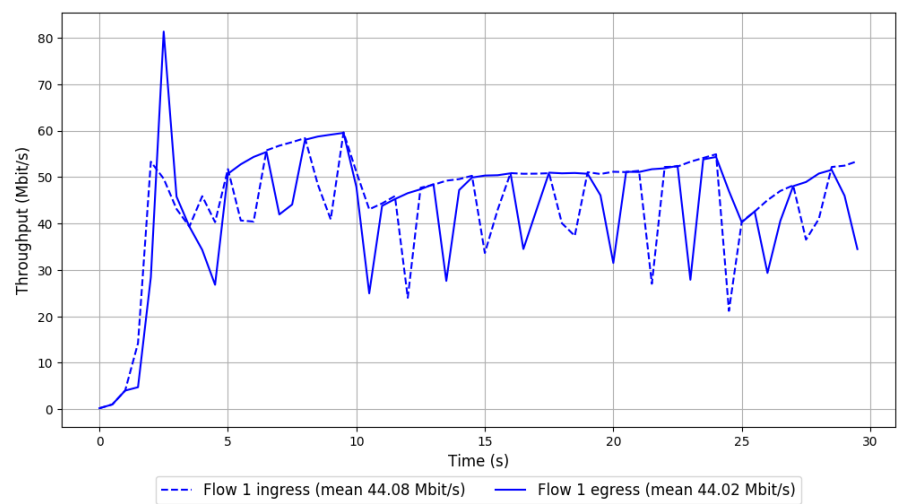
-- Flow 1:

Average throughput: 44.02 Mbit/s

95th percentile per-packet one-way delay: 140.293 ms

Loss rate: 1.05%

Run 4: Report of TCP Cubic — Data Link

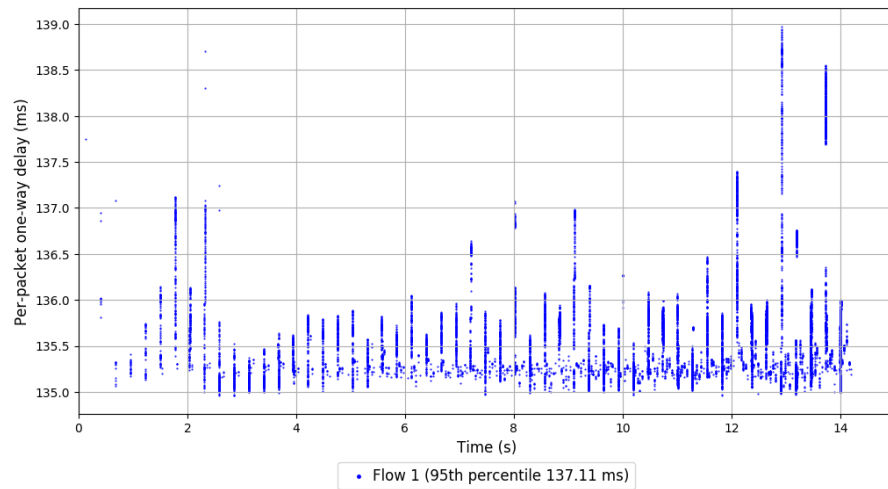
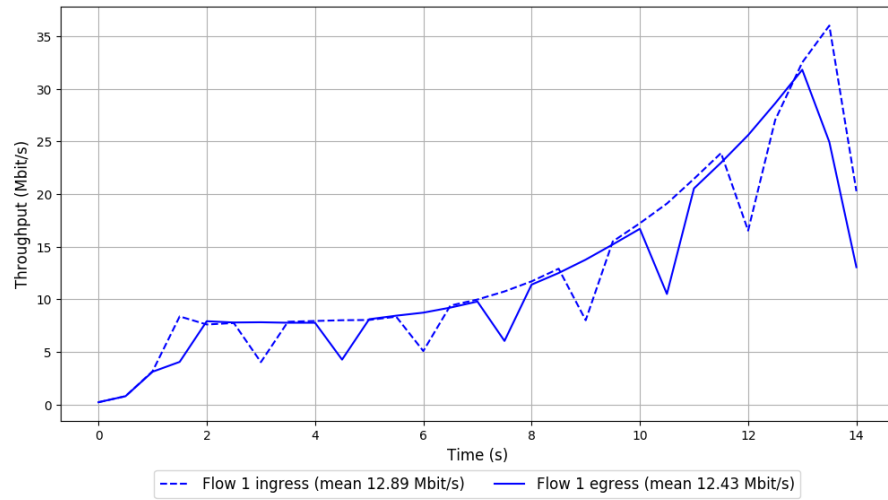


Run 5: Statistics of TCP Cubic

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

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

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



Run 6: Statistics of TCP Cubic

Start at: 2017-09-21 20:39:25

End at: 2017-09-21 20:39:55

# Below is generated by plot.py at 2017-09-21 23:28:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 45.96 Mbit/s

95th percentile per-packet one-way delay: 145.171 ms

Loss rate: 0.81%

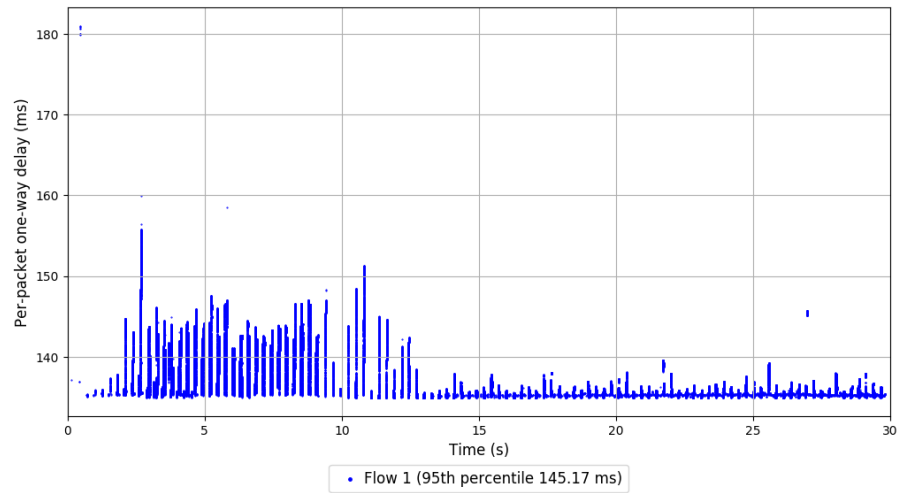
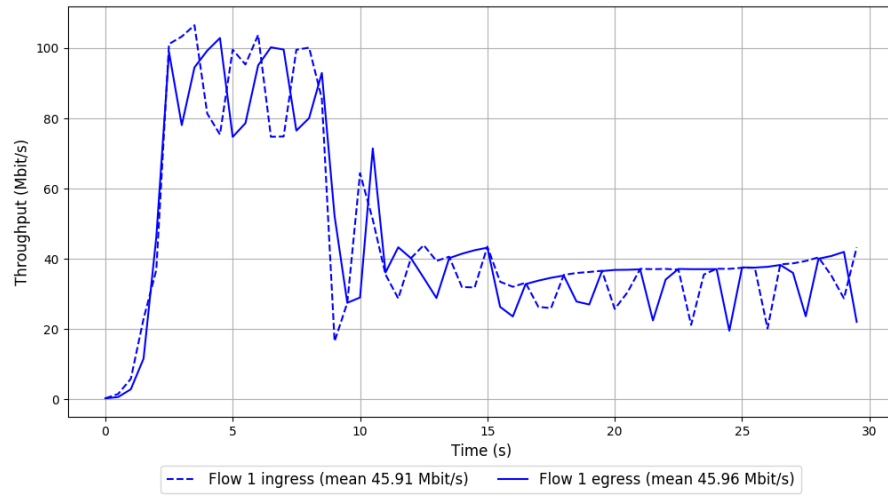
-- Flow 1:

Average throughput: 45.96 Mbit/s

95th percentile per-packet one-way delay: 145.171 ms

Loss rate: 0.81%

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



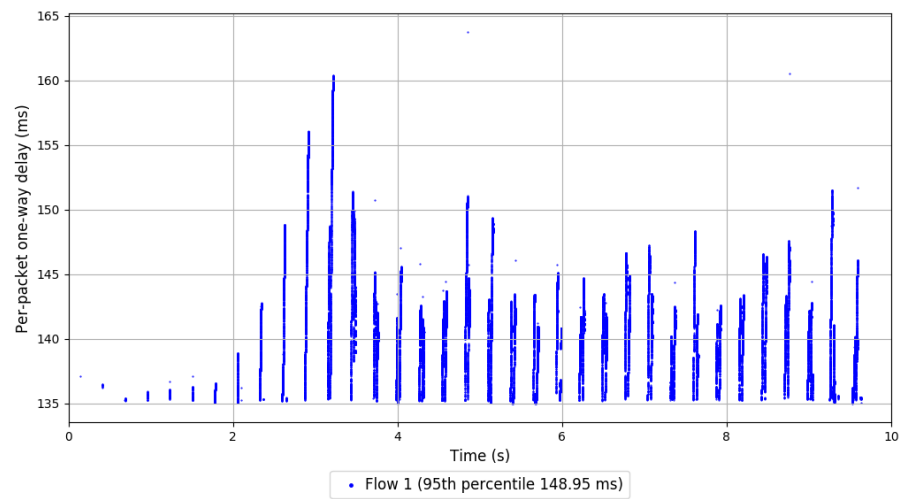
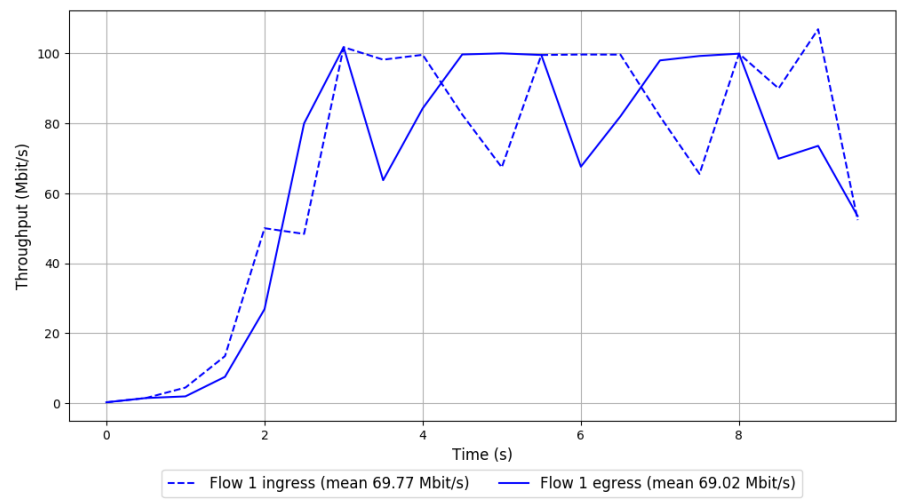
Run 7: Statistics of TCP Cubic

Start at: 2017-09-21 20:51:01

End at: 2017-09-21 20:51:31



Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

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

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

# Below is generated by plot.py at 2017-09-21 23:28:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.59 Mbit/s

95th percentile per-packet one-way delay: 136.088 ms

Loss rate: 2.08%

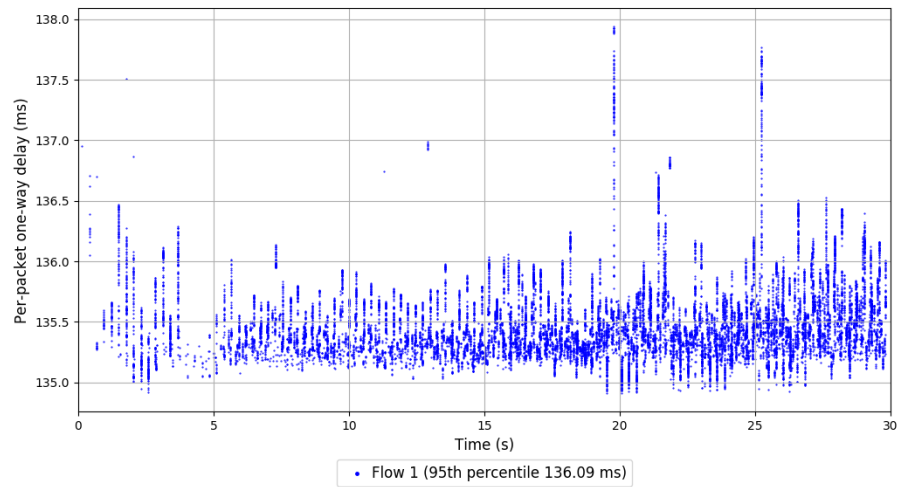
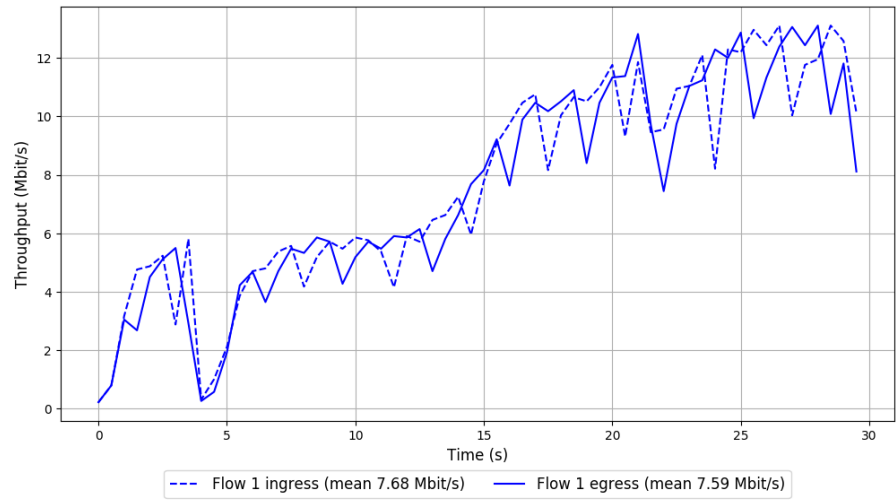
-- Flow 1:

Average throughput: 7.59 Mbit/s

95th percentile per-packet one-way delay: 136.088 ms

Loss rate: 2.08%

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



Run 9: Statistics of TCP Cubic

Start at: 2017-09-21 21:14:03

End at: 2017-09-21 21:14:33

# Below is generated by plot.py at 2017-09-21 23:28:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 51.00 Mbit/s

95th percentile per-packet one-way delay: 144.013 ms

Loss rate: 0.68%

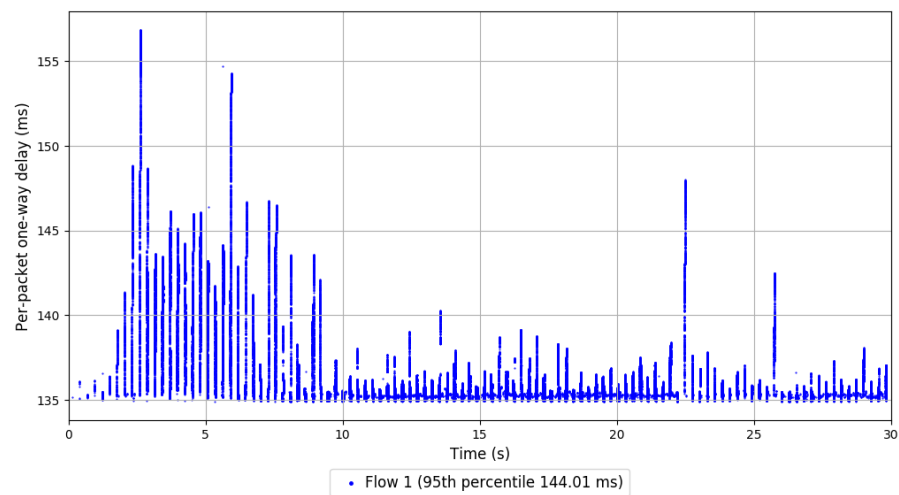
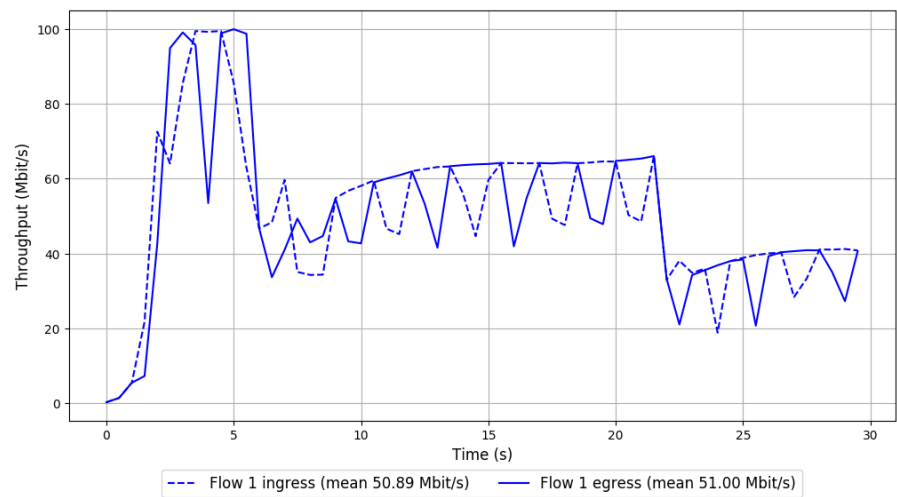
-- Flow 1:

Average throughput: 51.00 Mbit/s

95th percentile per-packet one-way delay: 144.013 ms

Loss rate: 0.68%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-09-21 21:25:27

End at: 2017-09-21 21:25:57

# Below is generated by plot.py at 2017-09-21 23:28:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 39.81 Mbit/s

95th percentile per-packet one-way delay: 143.555 ms

Loss rate: 1.04%

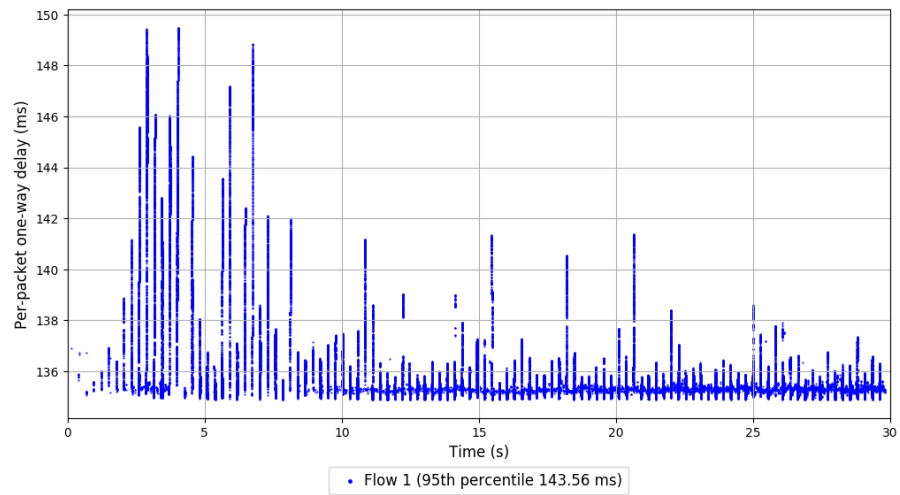
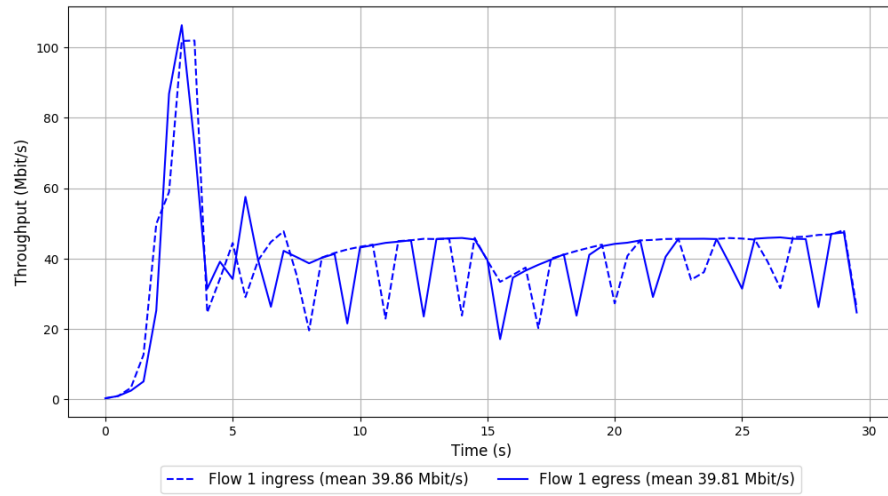
-- Flow 1:

Average throughput: 39.81 Mbit/s

95th percentile per-packet one-way delay: 143.555 ms

Loss rate: 1.04%

# Run 10: Report of TCP Cubic — Data Link



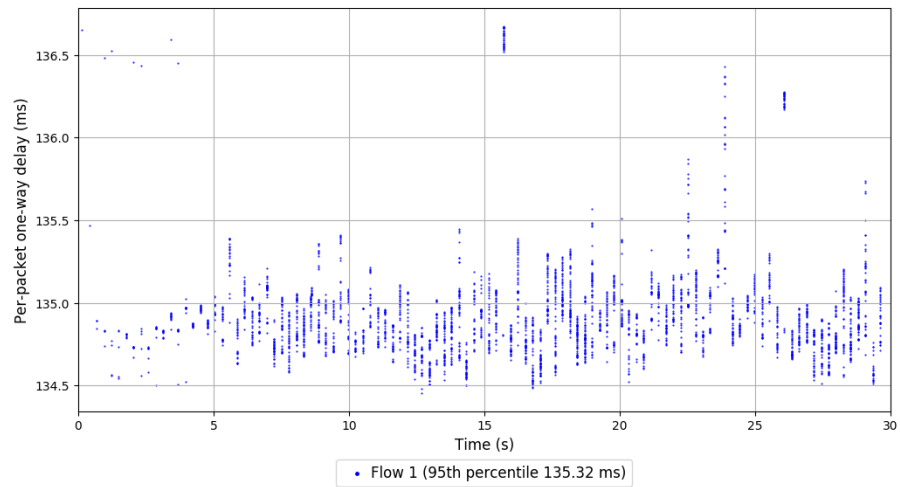
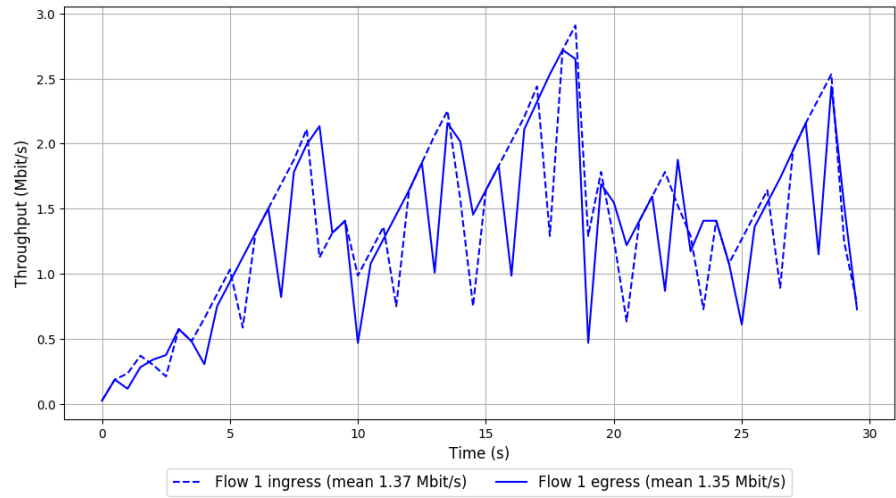
```
Run 1: Statistics of LEDBAT

Start at: 2017-09-21 19:44:12
End at: 2017-09-21 19:44:42

# Below is generated by plot.py at 2017-09-21 23:28:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.35 Mbit/s
95th percentile per-packet one-way delay: 135.323 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 1.35 Mbit/s
95th percentile per-packet one-way delay: 135.323 ms
Loss rate: 1.76%
```



## Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

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

End at: 2017-09-21 19:55:51

# Below is generated by plot.py at 2017-09-21 23:28:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 135.636 ms

Loss rate: 1.74%

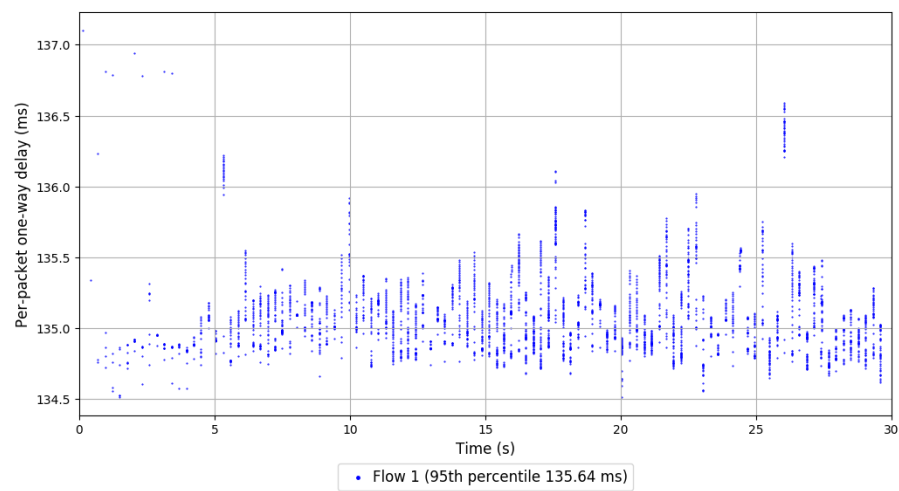
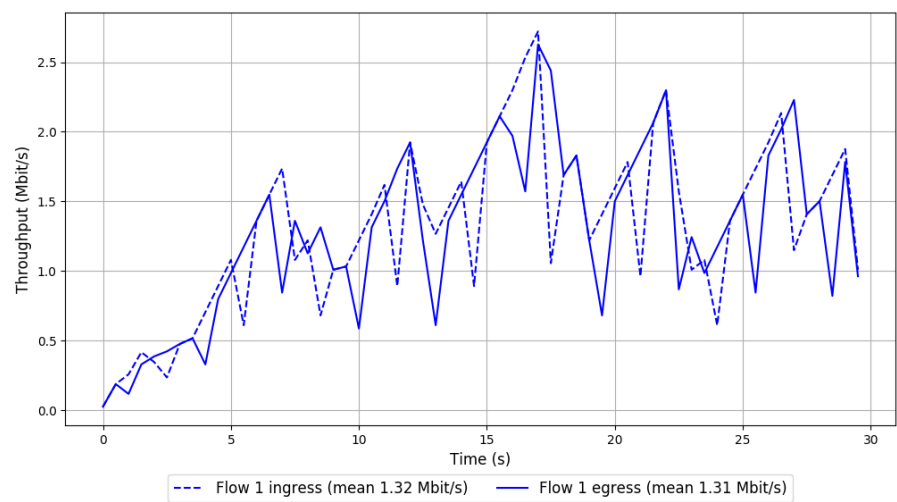
-- Flow 1:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 135.636 ms

Loss rate: 1.74%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-09-21 20:06:52

End at: 2017-09-21 20:07:22

# Below is generated by plot.py at 2017-09-21 23:28:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 136.153 ms

Loss rate: 1.22%

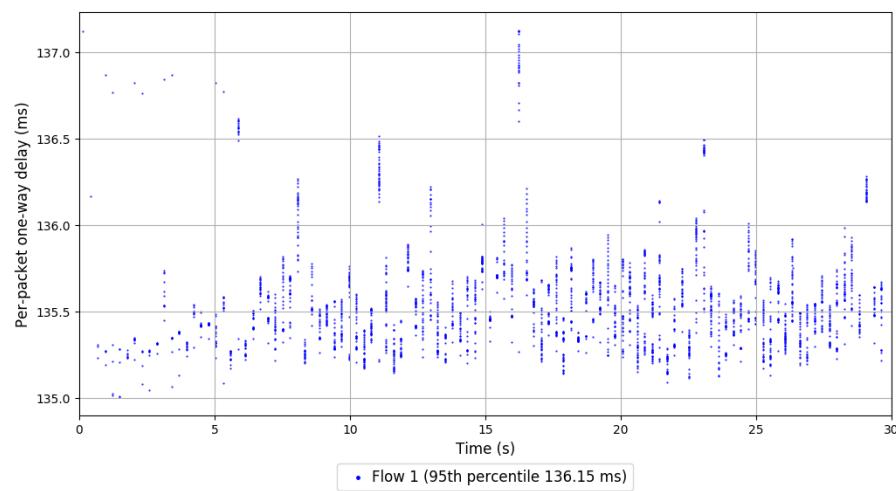
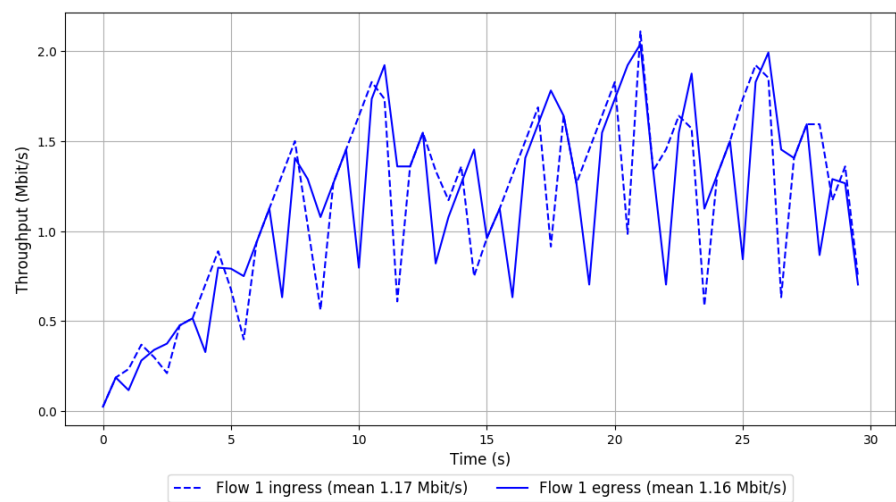
-- Flow 1:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 136.153 ms

Loss rate: 1.22%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-09-21 20:18:03

End at: 2017-09-21 20:18:33

# Below is generated by plot.py at 2017-09-21 23:28:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.86 Mbit/s

95th percentile per-packet one-way delay: 136.101 ms

Loss rate: 1.85%

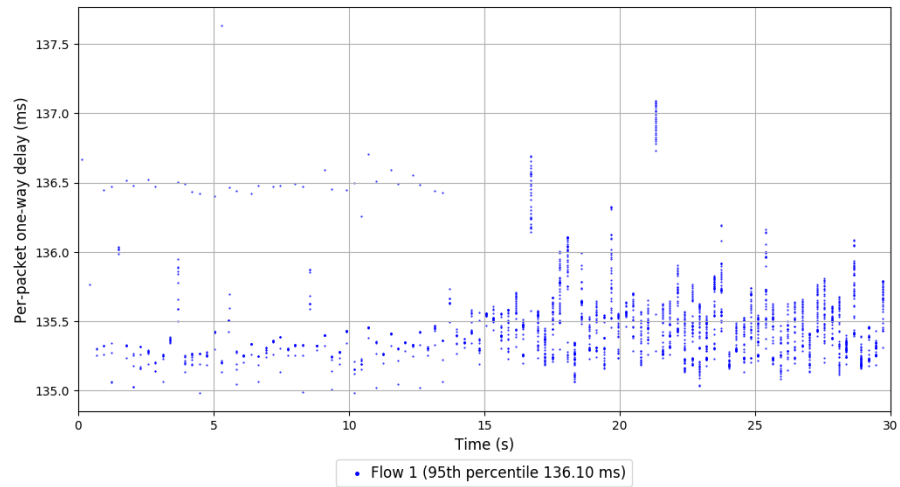
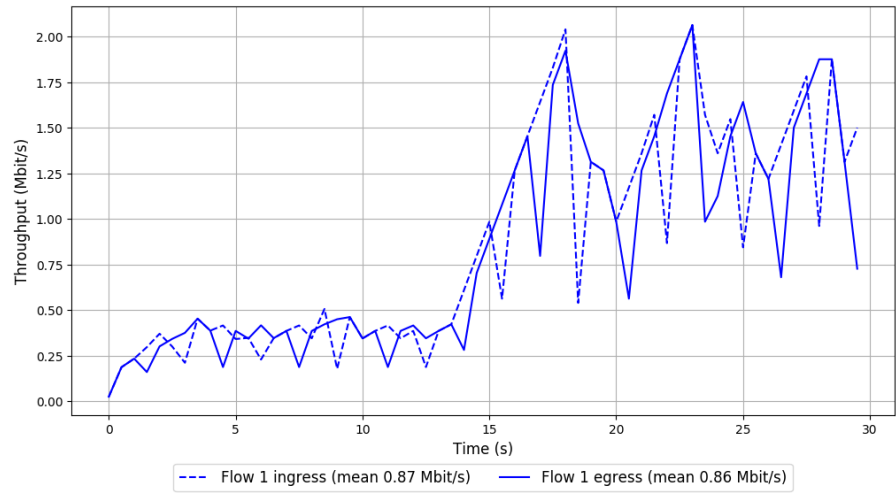
-- Flow 1:

Average throughput: 0.86 Mbit/s

95th percentile per-packet one-way delay: 136.101 ms

Loss rate: 1.85%

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



Run 5: Statistics of LEDBAT

Start at: 2017-09-21 20:29:15

End at: 2017-09-21 20:29:45

# Below is generated by plot.py at 2017-09-21 23:28:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.51 Mbit/s

95th percentile per-packet one-way delay: 135.975 ms

Loss rate: 1.12%

-- Flow 1:

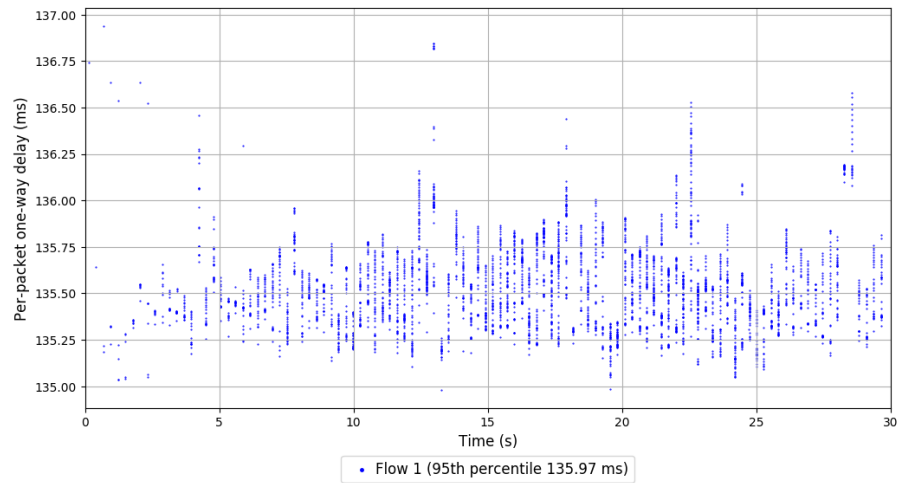
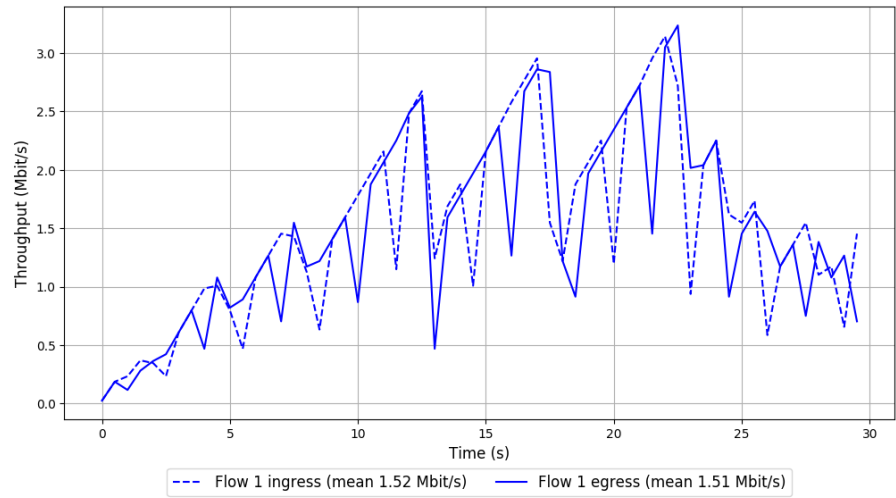
Average throughput: 1.51 Mbit/s

95th percentile per-packet one-way delay: 135.975 ms

Loss rate: 1.12%



## Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-09-21 20:40:12

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

# Below is generated by plot.py at 2017-09-21 23:28:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 135.847 ms

Loss rate: 1.22%

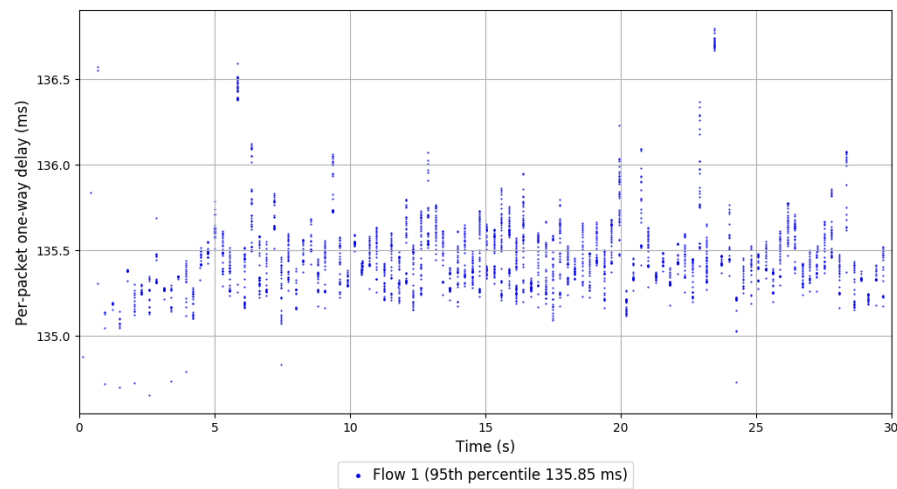
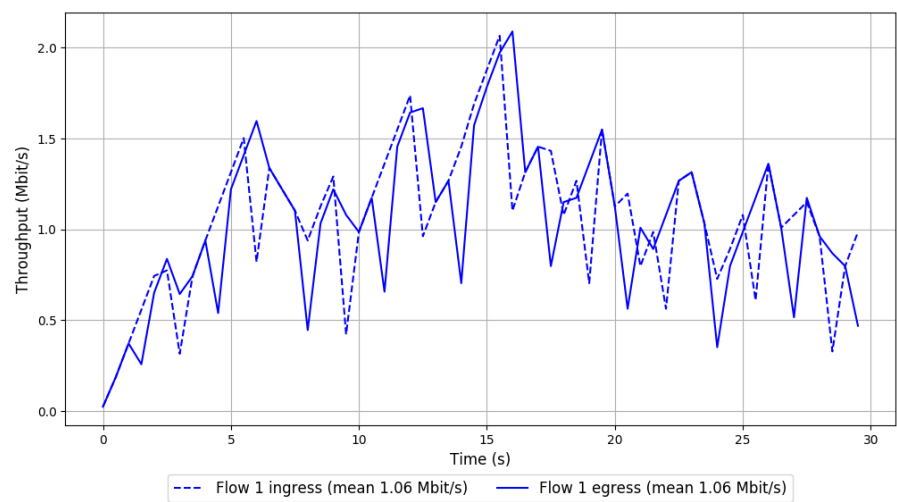
-- Flow 1:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 135.847 ms

Loss rate: 1.22%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-09-21 20:51:46

End at: 2017-09-21 20:52:16

# Below is generated by plot.py at 2017-09-21 23:28:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 136.331 ms

Loss rate: 1.61%

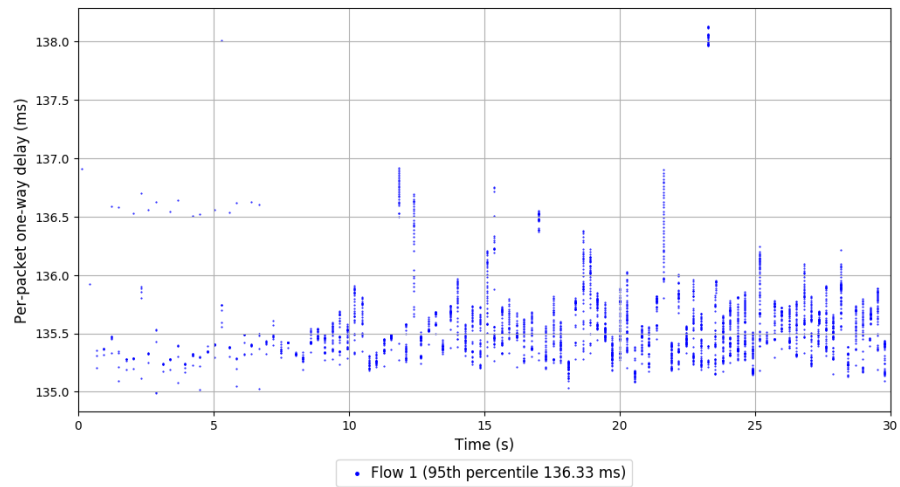
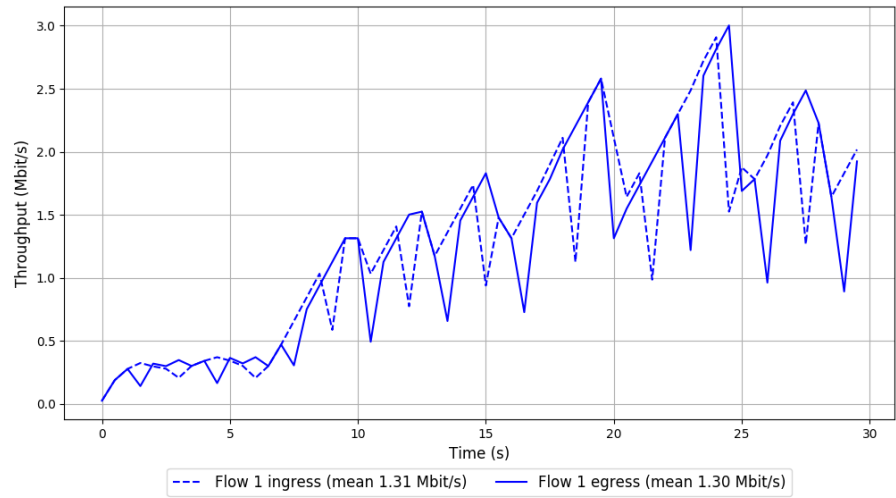
-- Flow 1:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 136.331 ms

Loss rate: 1.61%

## Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

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

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

# Below is generated by plot.py at 2017-09-21 23:28:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 136.125 ms

Loss rate: 1.80%

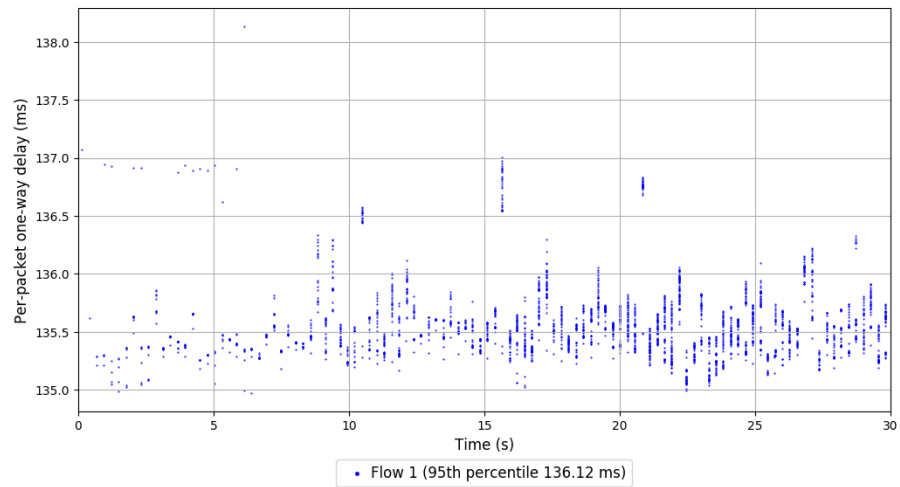
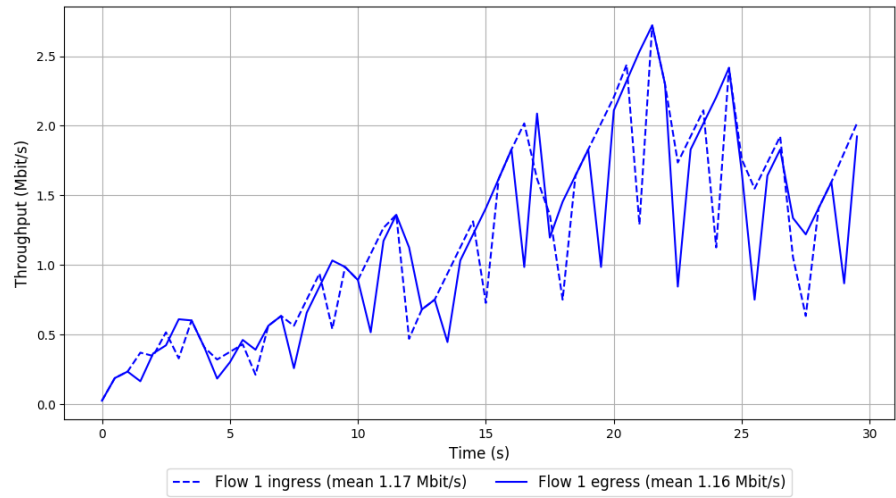
-- Flow 1:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 136.125 ms

Loss rate: 1.80%

## Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-09-21 21:14:51

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

# Below is generated by plot.py at 2017-09-21 23:28:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 135.701 ms

Loss rate: 2.18%

-- Flow 1:

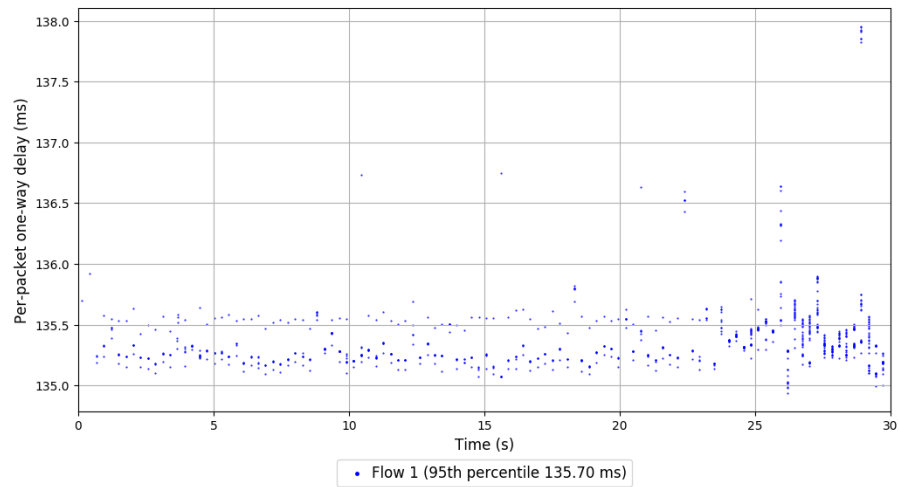
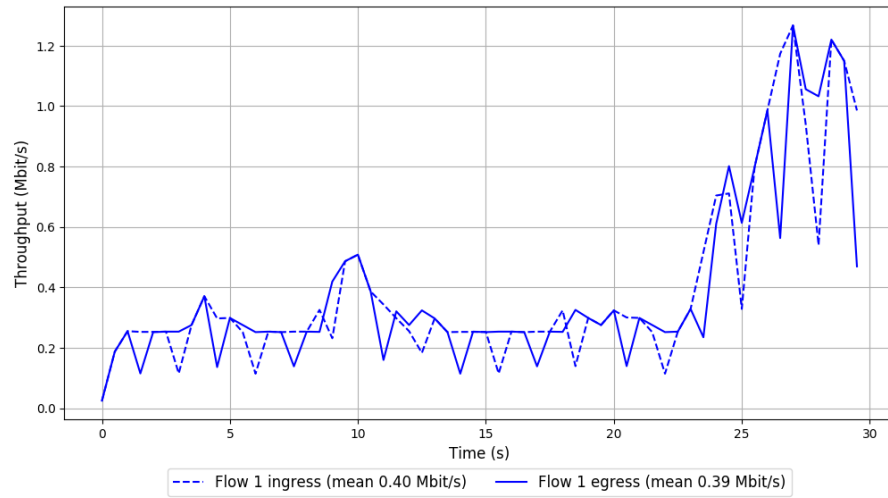
Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 135.701 ms

Loss rate: 2.18%



### Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

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

End at: 2017-09-21 21:26:43

# Below is generated by plot.py at 2017-09-21 23:28:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 136.016 ms

Loss rate: 1.75%

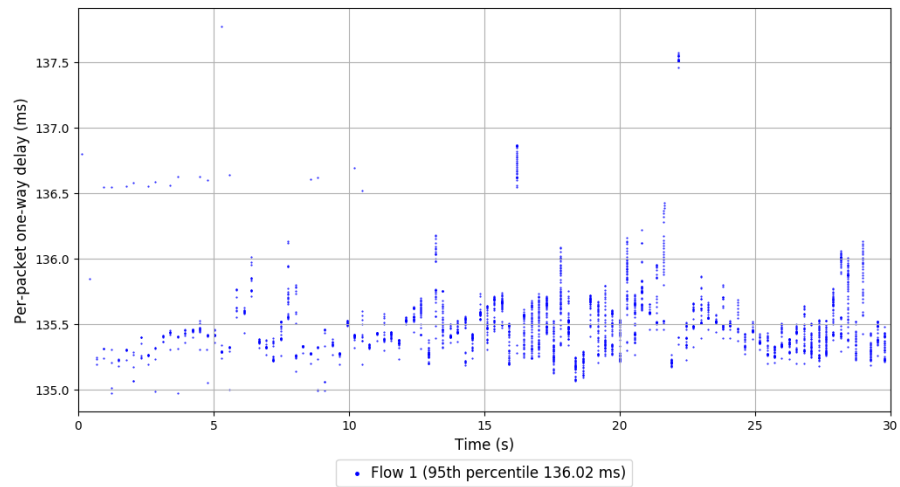
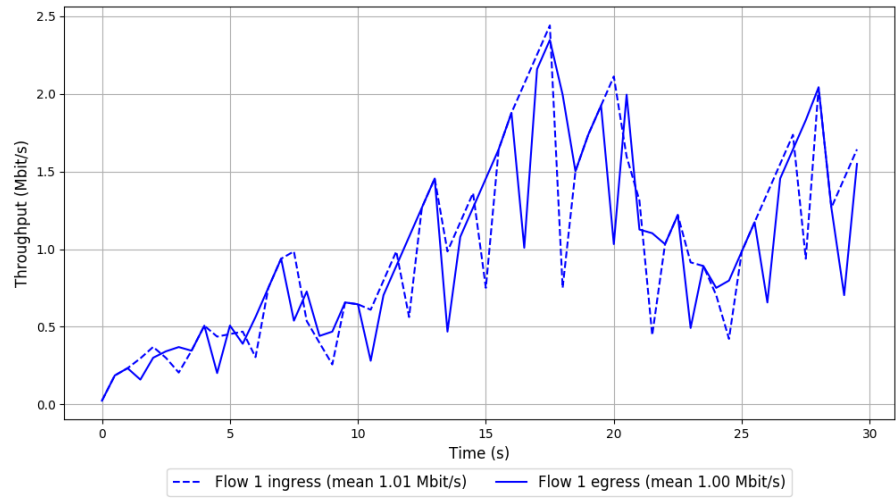
-- Flow 1:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 136.016 ms

Loss rate: 1.75%

## Run 10: Report of LEDBAT — Data Link

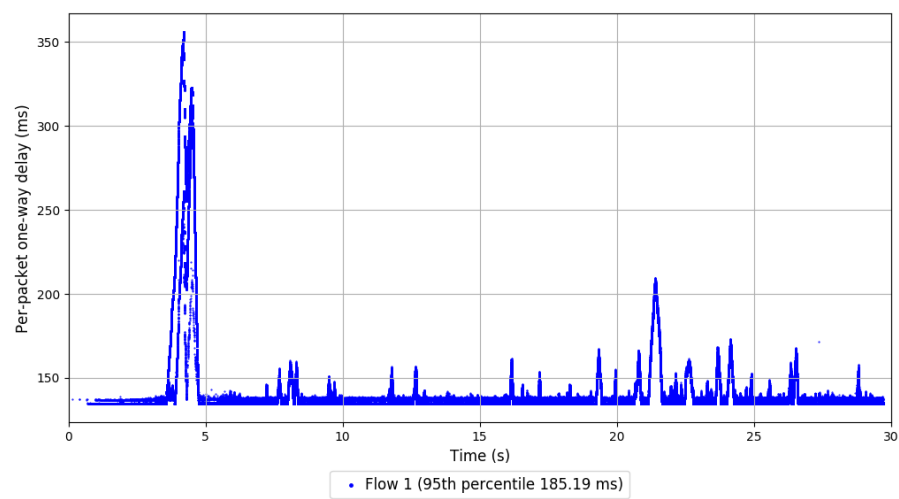
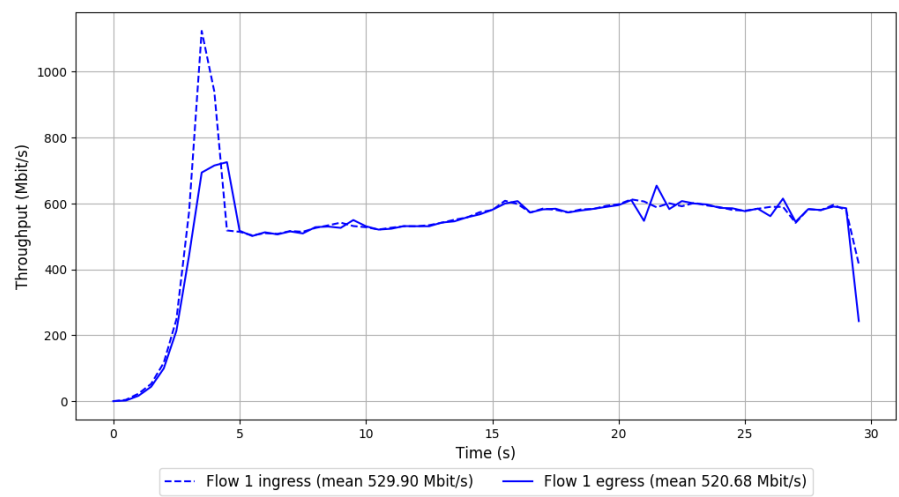


```
Run 1: Statistics of PCC

Start at: 2017-09-21 19:39:53
End at: 2017-09-21 19:40:23

# Below is generated by plot.py at 2017-09-21 23:37:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 520.68 Mbit/s
95th percentile per-packet one-way delay: 185.194 ms
Loss rate: 2.65%
-- Flow 1:
Average throughput: 520.68 Mbit/s
95th percentile per-packet one-way delay: 185.194 ms
Loss rate: 2.65%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-09-21 19:51:05

End at: 2017-09-21 19:51:35

# Below is generated by plot.py at 2017-09-21 23:37:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 503.77 Mbit/s

95th percentile per-packet one-way delay: 190.428 ms

Loss rate: 2.83%

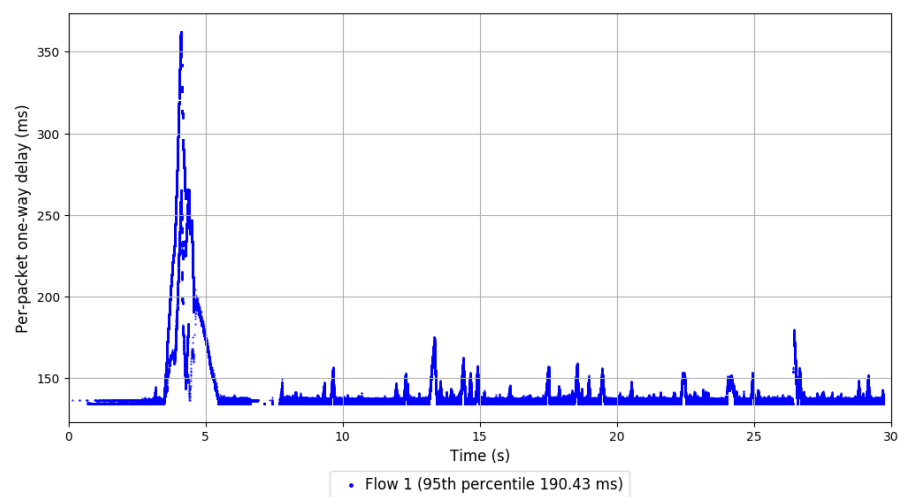
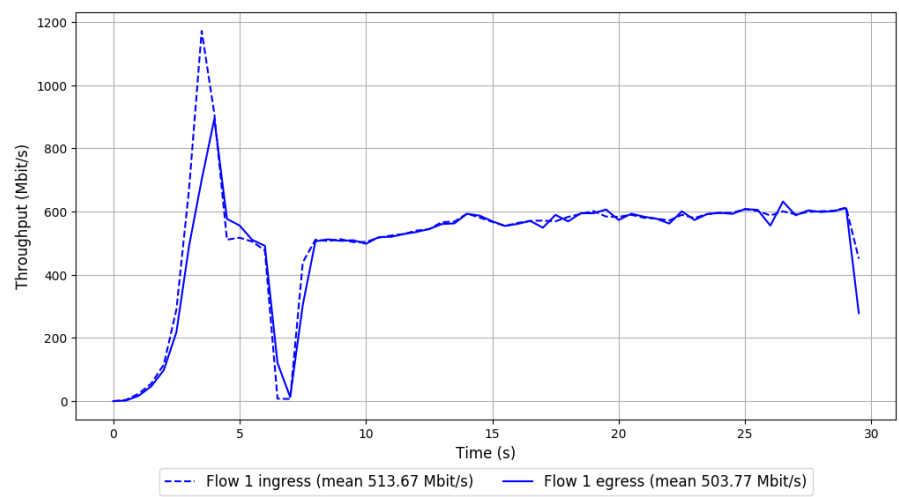
-- Flow 1:

Average throughput: 503.77 Mbit/s

95th percentile per-packet one-way delay: 190.428 ms

Loss rate: 2.83%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-09-21 20:02:16

End at: 2017-09-21 20:02:46

# Below is generated by plot.py at 2017-09-21 23:37:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 525.02 Mbit/s

95th percentile per-packet one-way delay: 198.298 ms

Loss rate: 2.78%

-- Flow 1:

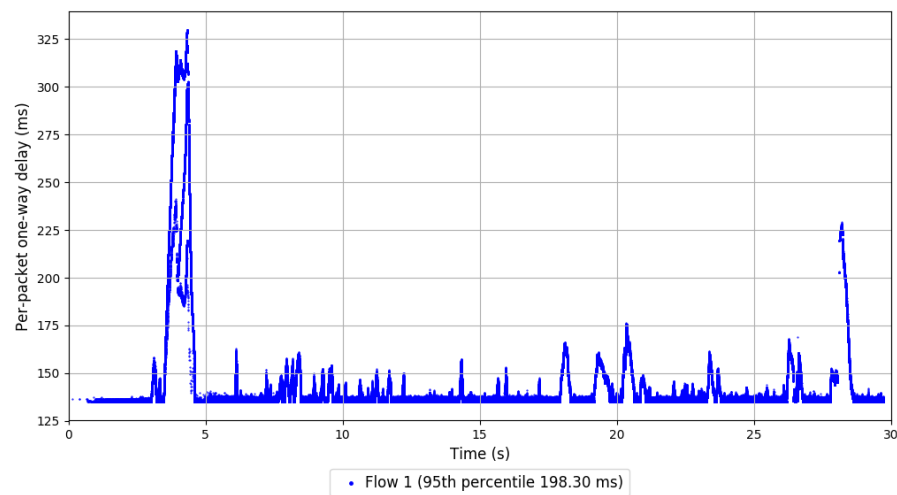
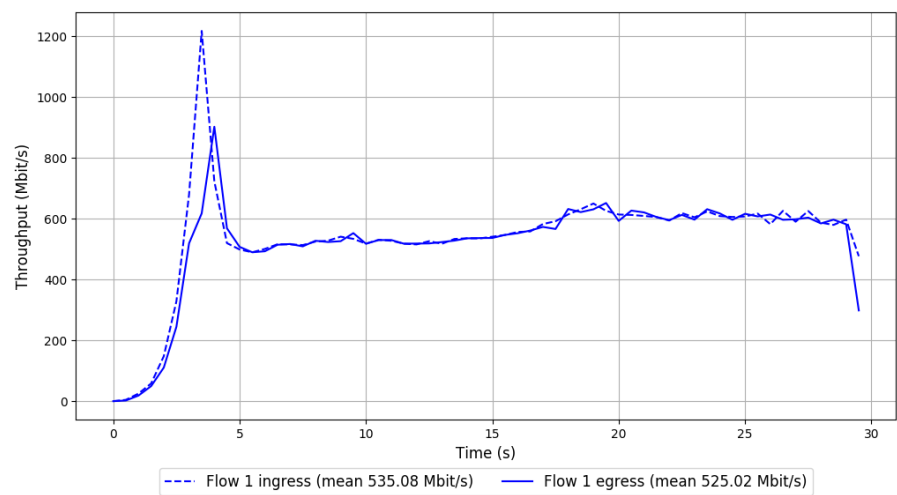
Average throughput: 525.02 Mbit/s

95th percentile per-packet one-way delay: 198.298 ms

Loss rate: 2.78%



Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-09-21 20:13:46

End at: 2017-09-21 20:14:16

# Below is generated by plot.py at 2017-09-21 23:37:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 502.35 Mbit/s

95th percentile per-packet one-way delay: 174.915 ms

Loss rate: 3.36%

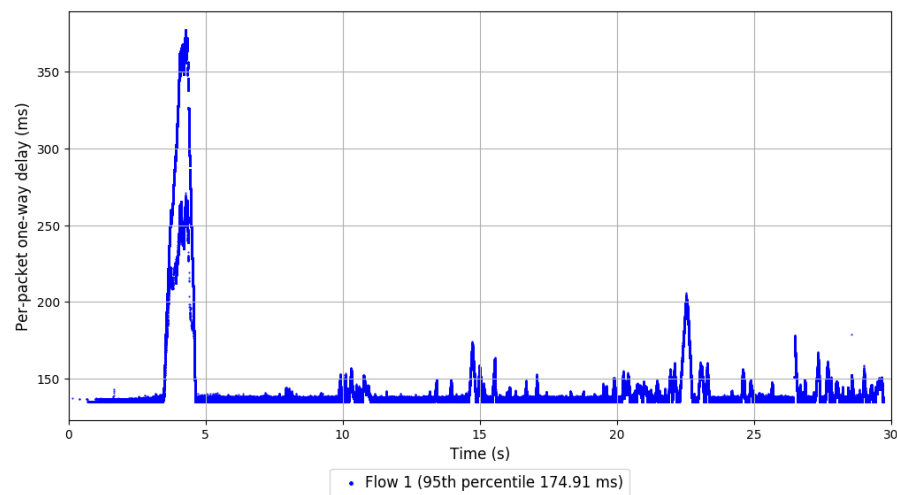
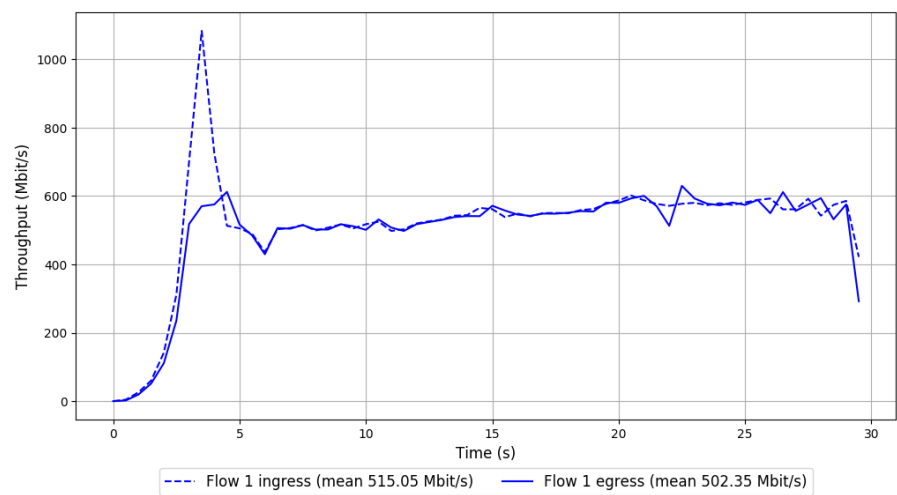
-- Flow 1:

Average throughput: 502.35 Mbit/s

95th percentile per-packet one-way delay: 174.915 ms

Loss rate: 3.36%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-09-21 20:25:01

End at: 2017-09-21 20:25:31

# Below is generated by plot.py at 2017-09-21 23:37:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 24.84 Mbit/s

95th percentile per-packet one-way delay: 135.715 ms

Loss rate: 6.20%

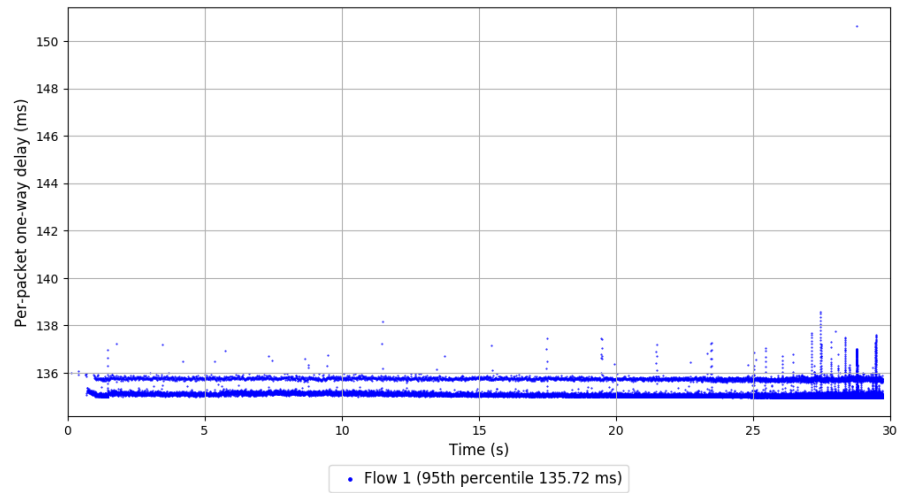
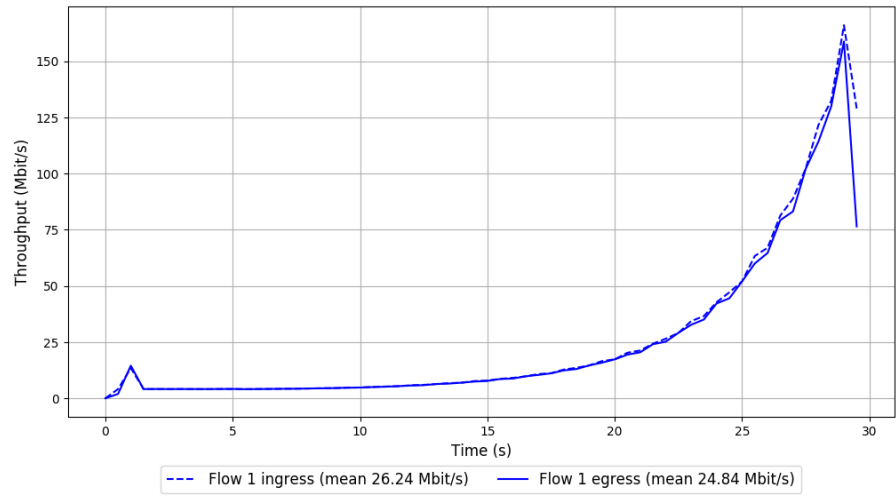
-- Flow 1:

Average throughput: 24.84 Mbit/s

95th percentile per-packet one-way delay: 135.715 ms

Loss rate: 6.20%

## Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-09-21 20:36:00

End at: 2017-09-21 20:36:30

# Below is generated by plot.py at 2017-09-21 23:37:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 415.52 Mbit/s

95th percentile per-packet one-way delay: 149.223 ms

Loss rate: 1.80%

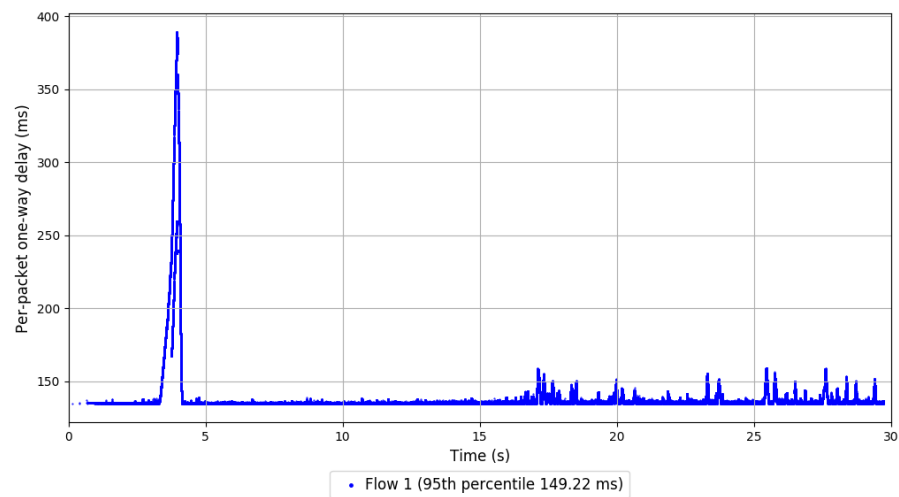
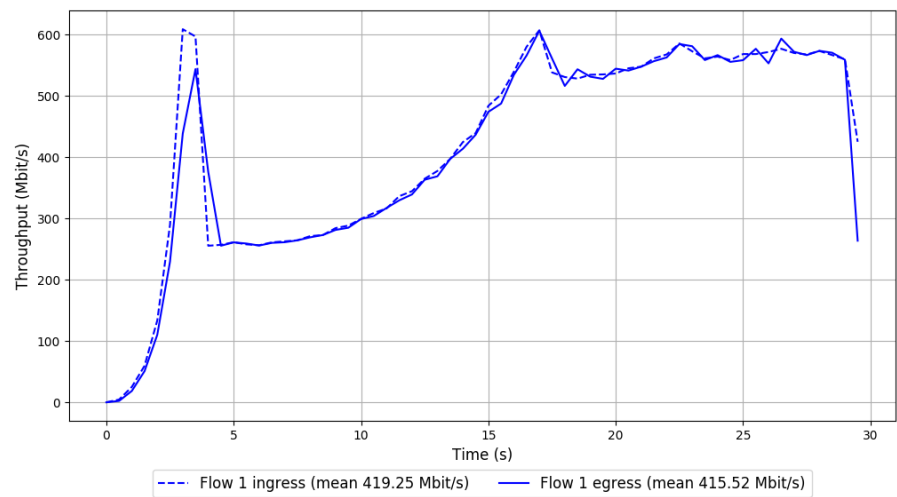
-- Flow 1:

Average throughput: 415.52 Mbit/s

95th percentile per-packet one-way delay: 149.223 ms

Loss rate: 1.80%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-09-21 20:47:11

End at: 2017-09-21 20:47:41

# Below is generated by plot.py at 2017-09-21 23:37:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 499.19 Mbit/s

95th percentile per-packet one-way delay: 170.376 ms

Loss rate: 2.31%

-- Flow 1:

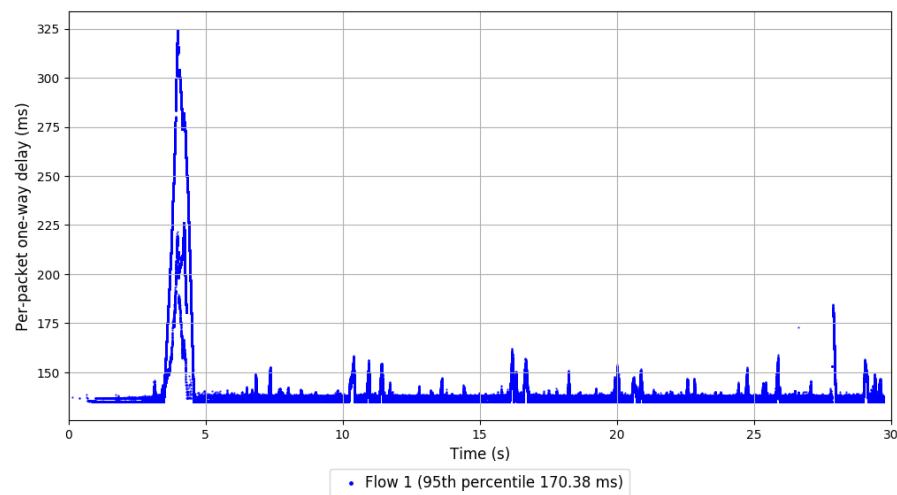
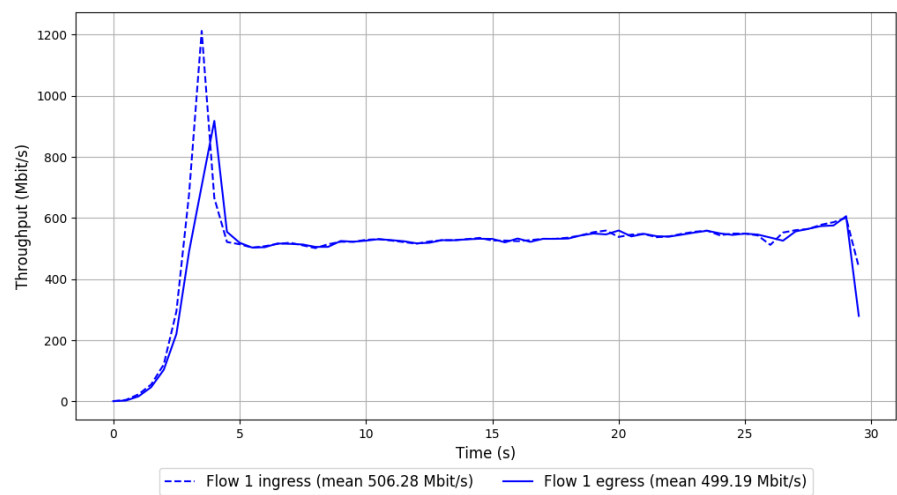
Average throughput: 499.19 Mbit/s

95th percentile per-packet one-way delay: 170.376 ms

Loss rate: 2.31%



Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-09-21 20:59:02

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

# Below is generated by plot.py at 2017-09-21 23:37:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 469.82 Mbit/s

95th percentile per-packet one-way delay: 177.779 ms

Loss rate: 3.32%

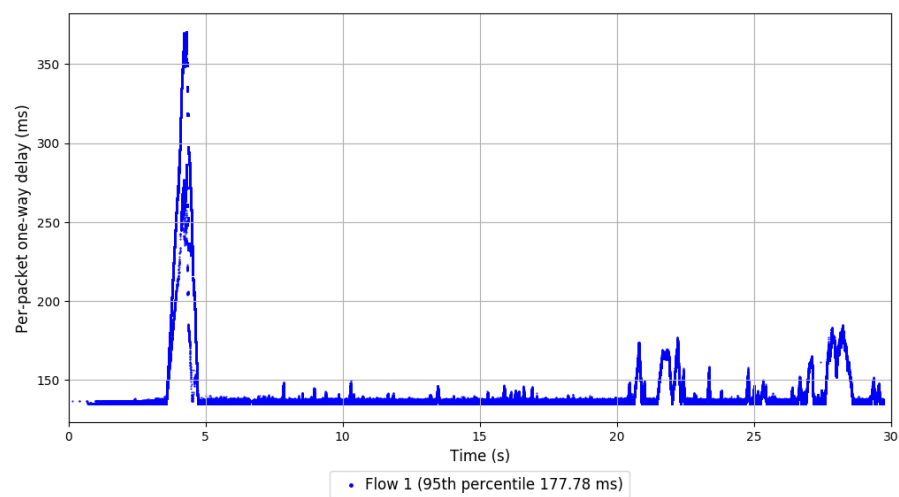
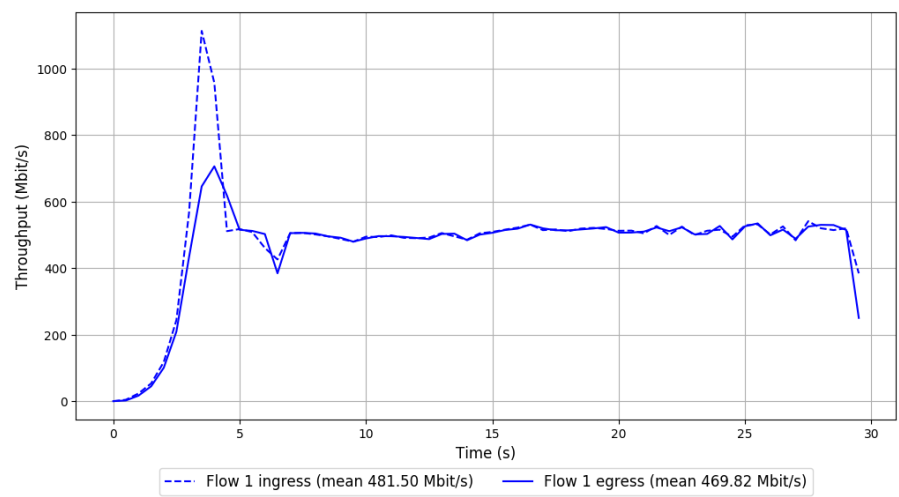
-- Flow 1:

Average throughput: 469.82 Mbit/s

95th percentile per-packet one-way delay: 177.779 ms

Loss rate: 3.32%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

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

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

# Below is generated by plot.py at 2017-09-21 23:37:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 476.15 Mbit/s

95th percentile per-packet one-way delay: 240.384 ms

Loss rate: 4.93%

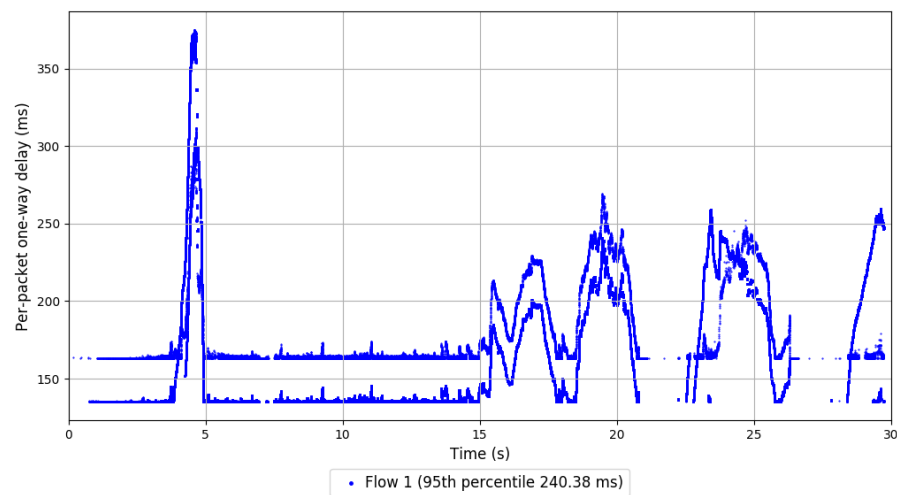
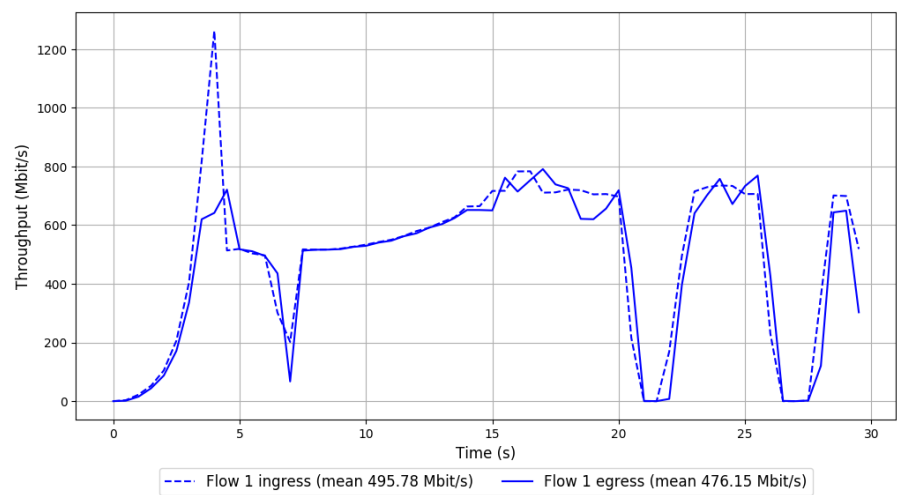
-- Flow 1:

Average throughput: 476.15 Mbit/s

95th percentile per-packet one-way delay: 240.384 ms

Loss rate: 4.93%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

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

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

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 482.36 Mbit/s

95th percentile per-packet one-way delay: 189.761 ms

Loss rate: 2.56%

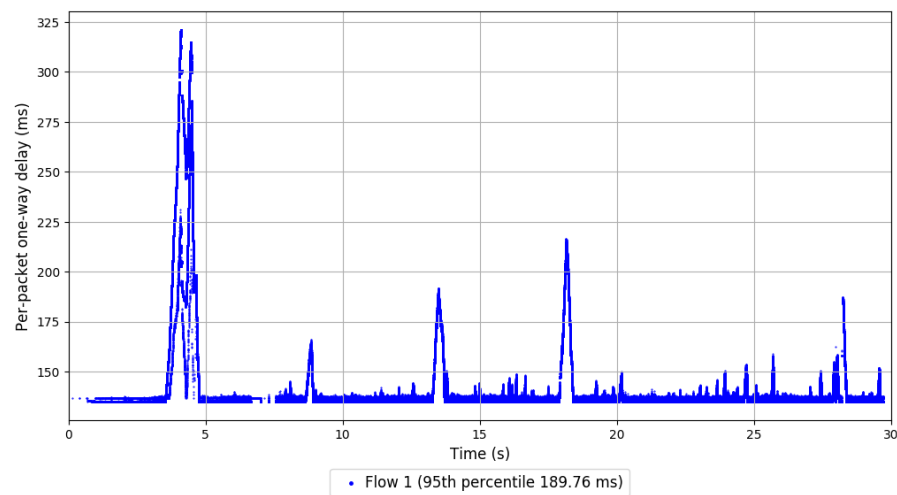
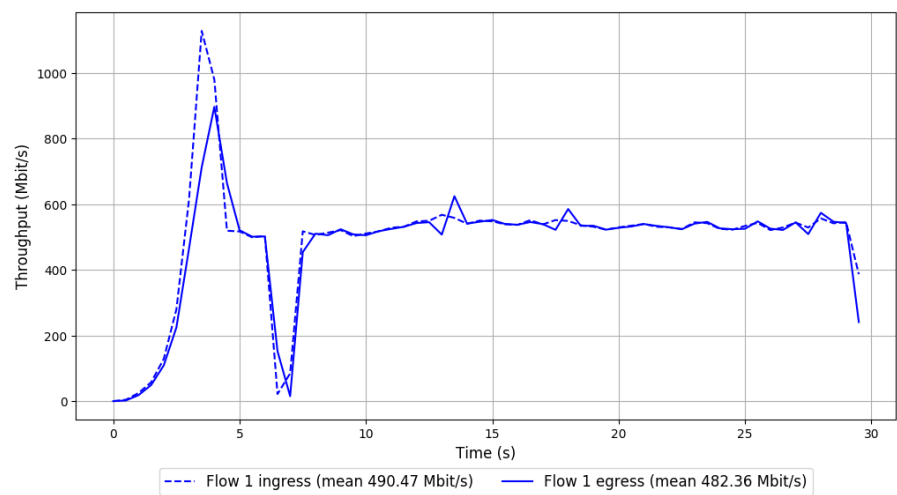
-- Flow 1:

Average throughput: 482.36 Mbit/s

95th percentile per-packet one-way delay: 189.761 ms

Loss rate: 2.56%

Run 10: Report of PCC — Data Link



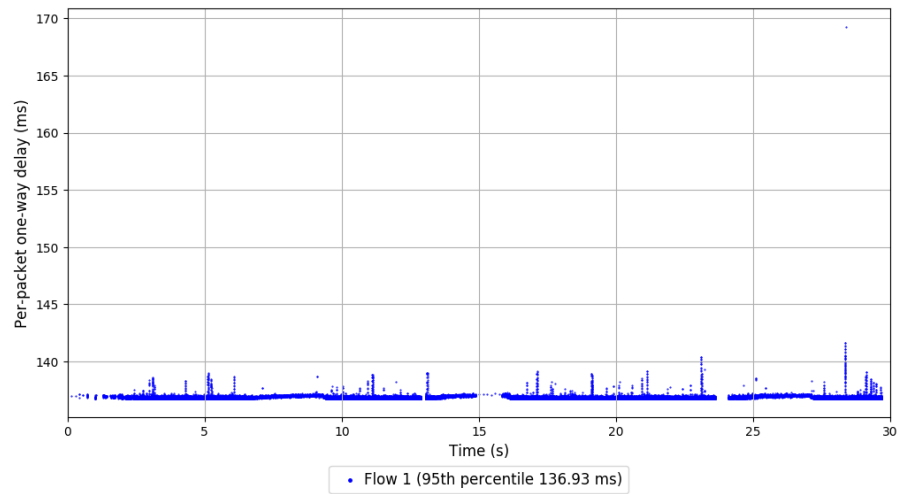
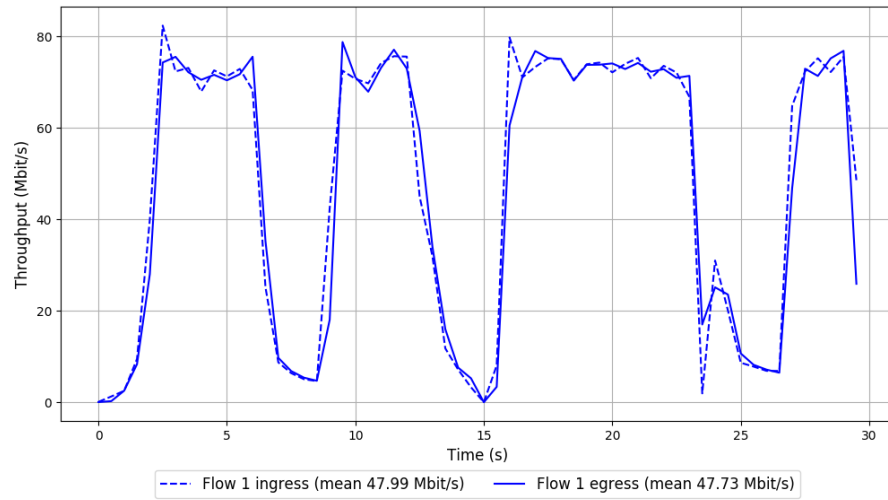
```
Run 1: Statistics of QUIC Cubic

Start at: 2017-09-21 19:49:36
End at: 2017-09-21 19:50:06

# Below is generated by plot.py at 2017-09-21 23:45:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.73 Mbit/s
95th percentile per-packet one-way delay: 136.934 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 47.73 Mbit/s
95th percentile per-packet one-way delay: 136.934 ms
Loss rate: 1.45%
```



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



Run 2: Statistics of QUIC Cubic

Start at: 2017-09-21 20:00:47

End at: 2017-09-21 20:01:17

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 47.56 Mbit/s

95th percentile per-packet one-way delay: 136.861 ms

Loss rate: 1.39%

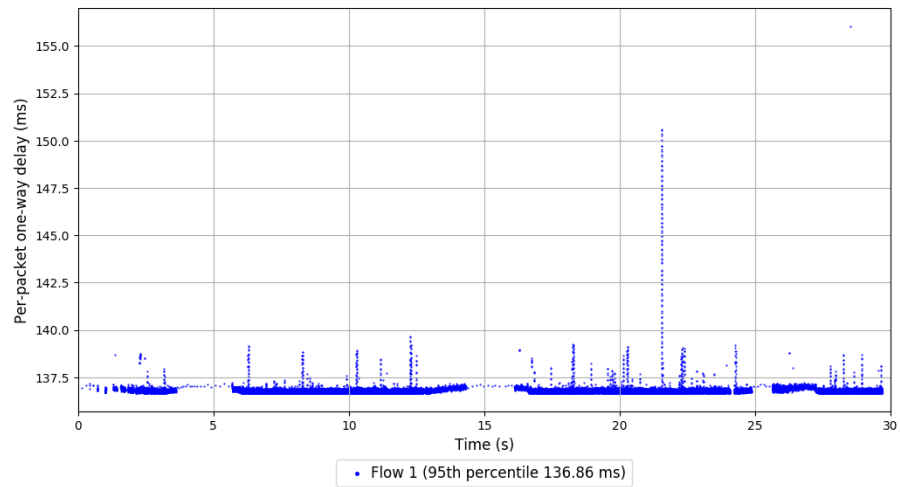
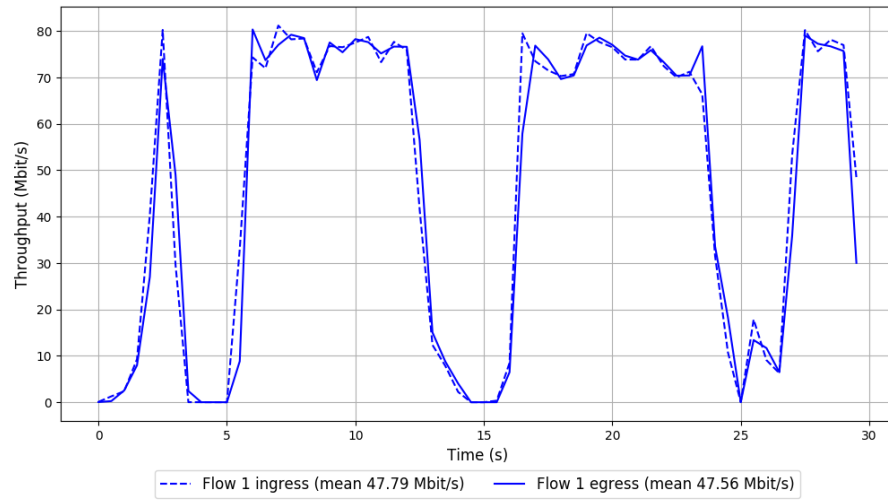
-- Flow 1:

Average throughput: 47.56 Mbit/s

95th percentile per-packet one-way delay: 136.861 ms

Loss rate: 1.39%

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



Run 3: Statistics of QUIC Cubic

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

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

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 48.47 Mbit/s

95th percentile per-packet one-way delay: 136.938 ms

Loss rate: 1.52%

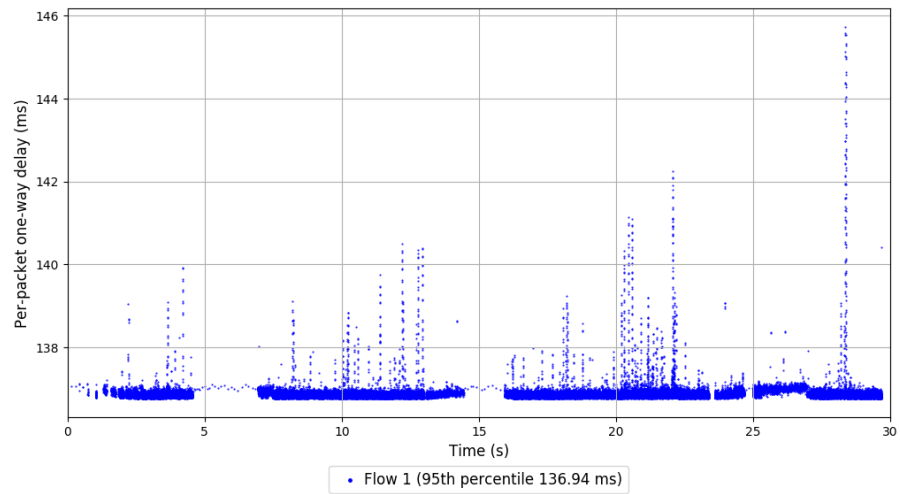
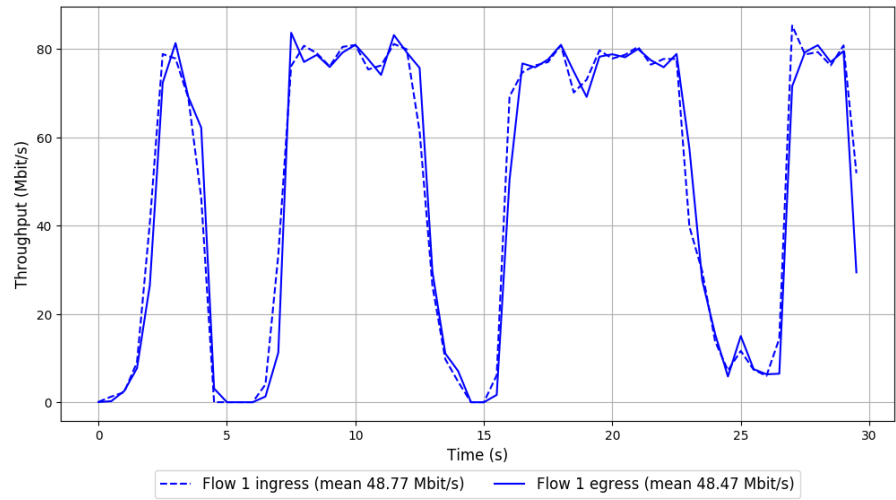
-- Flow 1:

Average throughput: 48.47 Mbit/s

95th percentile per-packet one-way delay: 136.938 ms

Loss rate: 1.52%

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



Run 4: Statistics of QUIC Cubic

Start at: 2017-09-21 20:23:32

End at: 2017-09-21 20:24:02

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 48.49 Mbit/s

95th percentile per-packet one-way delay: 135.801 ms

Loss rate: 1.46%

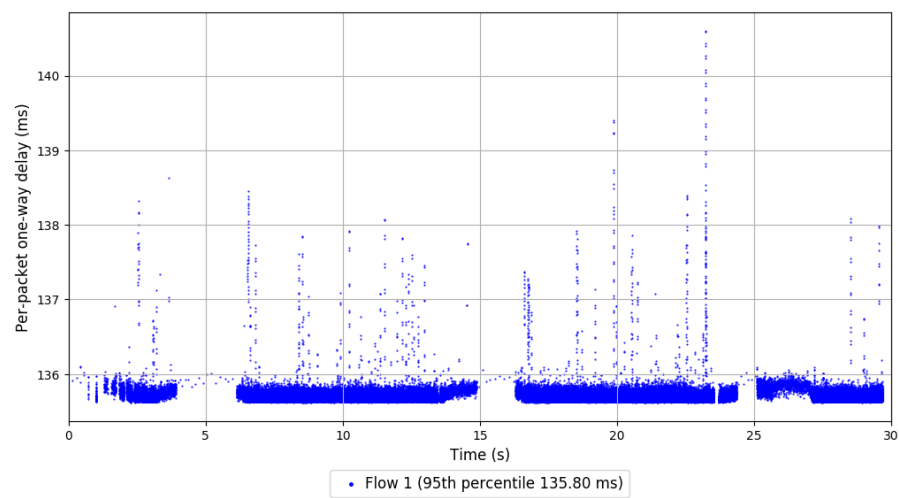
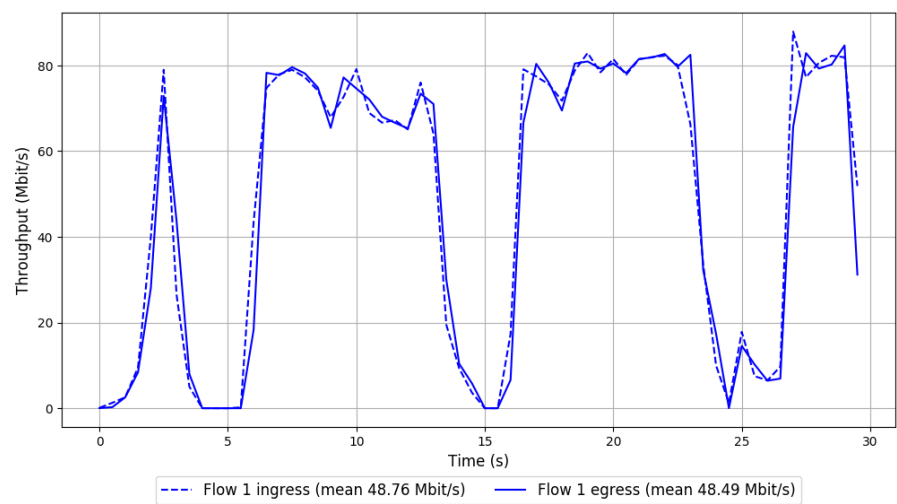
-- Flow 1:

Average throughput: 48.49 Mbit/s

95th percentile per-packet one-way delay: 135.801 ms

Loss rate: 1.46%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-09-21 20:34:31

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

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 45.49 Mbit/s

95th percentile per-packet one-way delay: 136.863 ms

Loss rate: 1.30%

-- Flow 1:

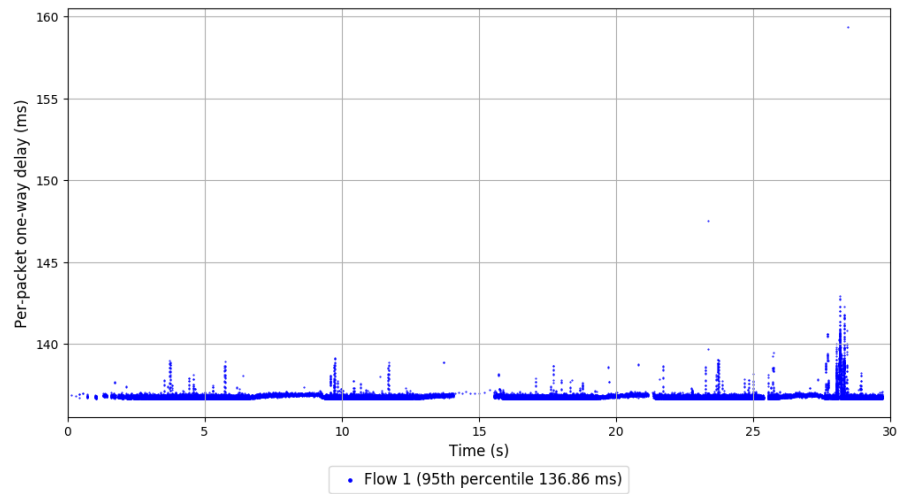
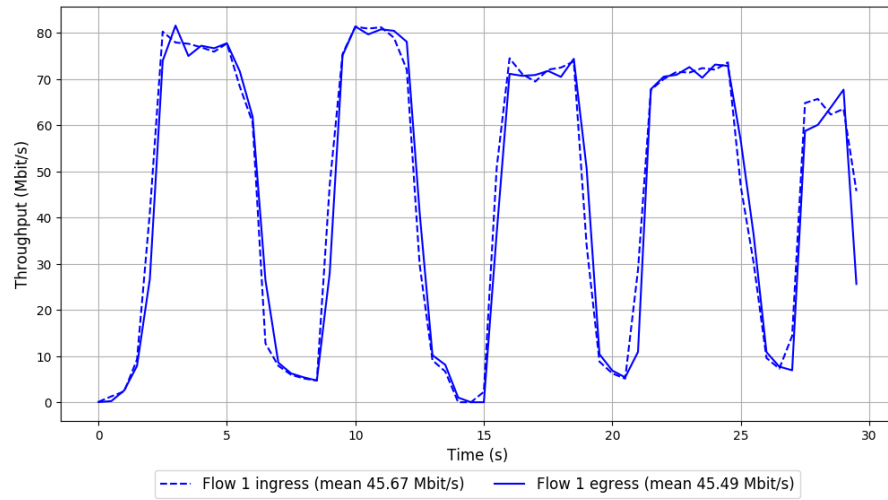
Average throughput: 45.49 Mbit/s

95th percentile per-packet one-way delay: 136.863 ms

Loss rate: 1.30%



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



Run 6: Statistics of QUIC Cubic

Start at: 2017-09-21 20:45:42

End at: 2017-09-21 20:46:12

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 51.19 Mbit/s

95th percentile per-packet one-way delay: 135.084 ms

Loss rate: 1.38%

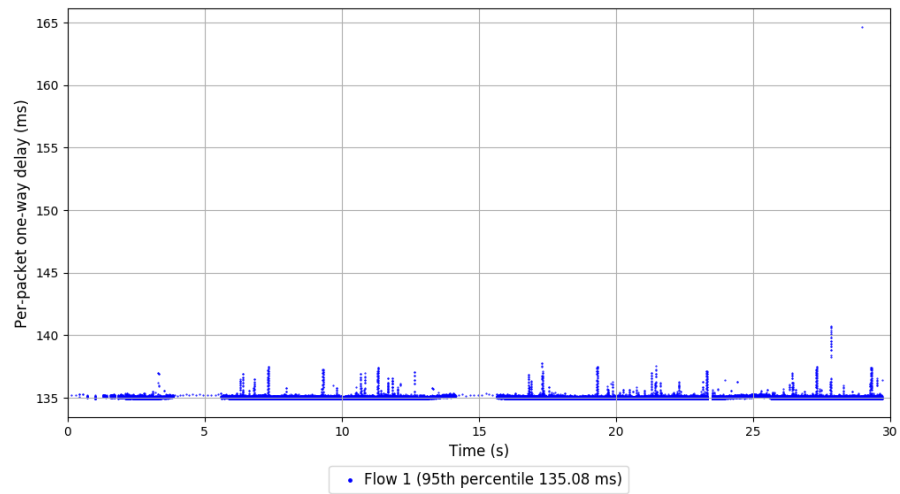
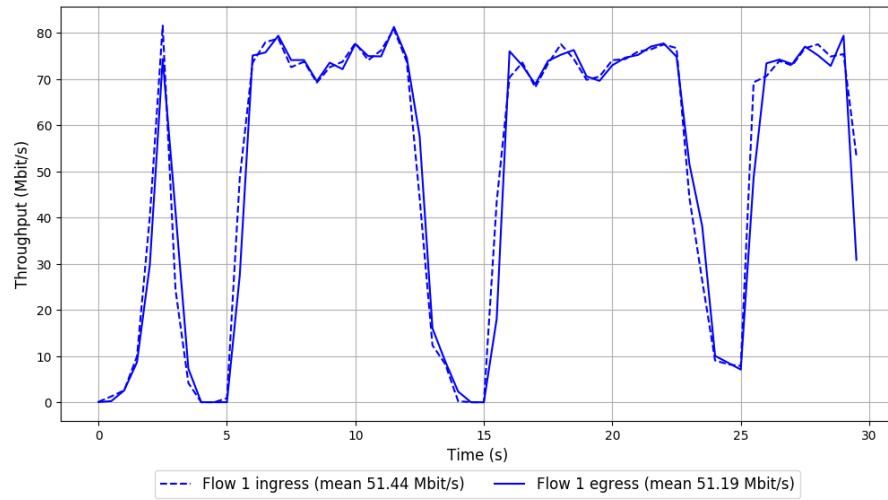
-- Flow 1:

Average throughput: 51.19 Mbit/s

95th percentile per-packet one-way delay: 135.084 ms

Loss rate: 1.38%

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



Run 7: Statistics of QUIC Cubic

Start at: 2017-09-21 20:57:32

End at: 2017-09-21 20:58:02

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 41.81 Mbit/s

95th percentile per-packet one-way delay: 136.857 ms

Loss rate: 1.53%

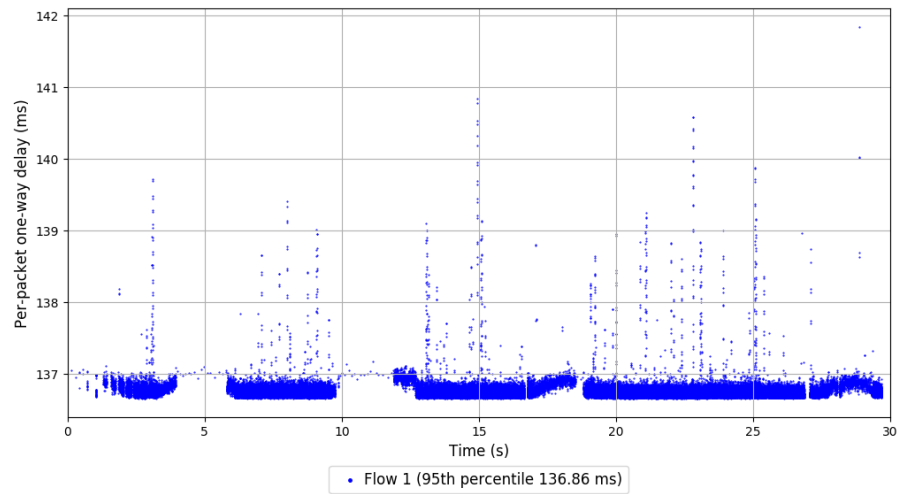
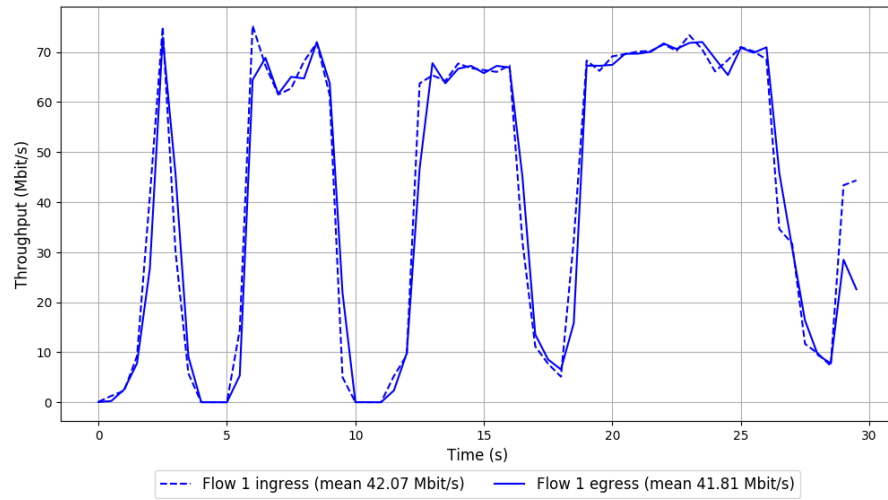
-- Flow 1:

Average throughput: 41.81 Mbit/s

95th percentile per-packet one-way delay: 136.857 ms

Loss rate: 1.53%

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



Run 8: Statistics of QUIC Cubic

Start at: 2017-09-21 21:08:57

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

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.28 Mbit/s

95th percentile per-packet one-way delay: 135.678 ms

Loss rate: 1.38%

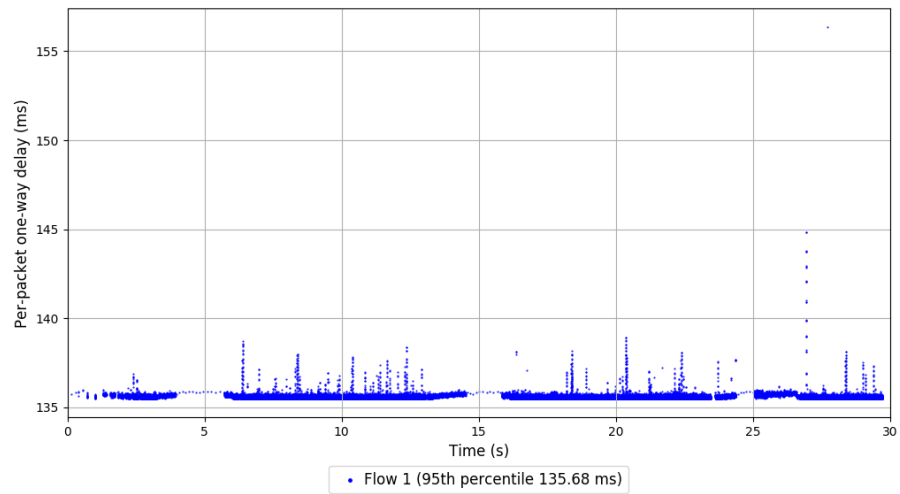
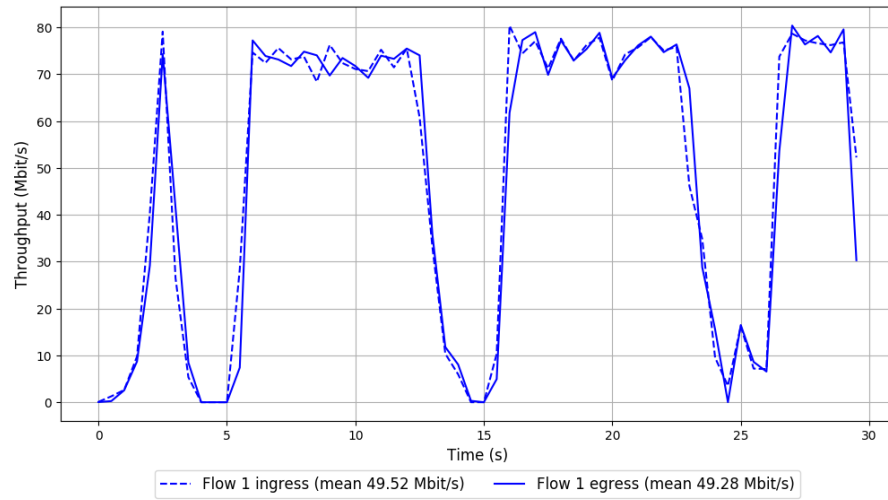
-- Flow 1:

Average throughput: 49.28 Mbit/s

95th percentile per-packet one-way delay: 135.678 ms

Loss rate: 1.38%

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



Run 9: Statistics of QUIC Cubic

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

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

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 48.93 Mbit/s

95th percentile per-packet one-way delay: 136.708 ms

Loss rate: 1.38%

-- Flow 1:

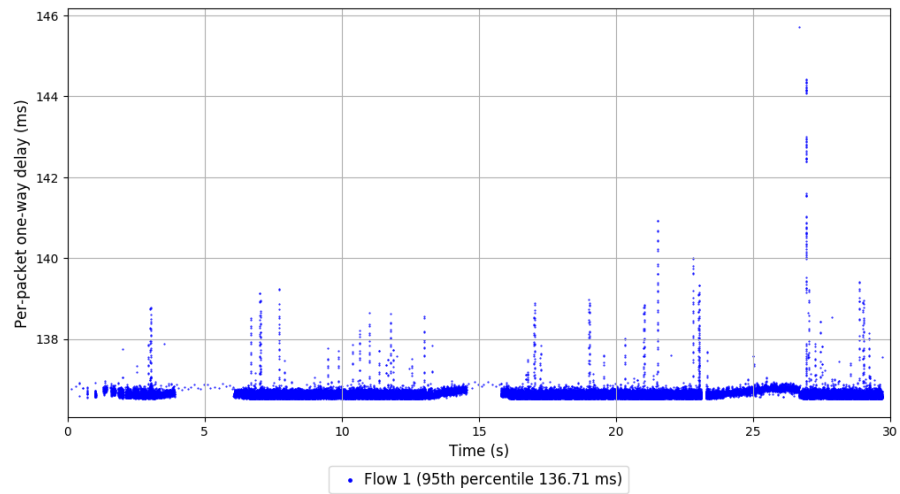
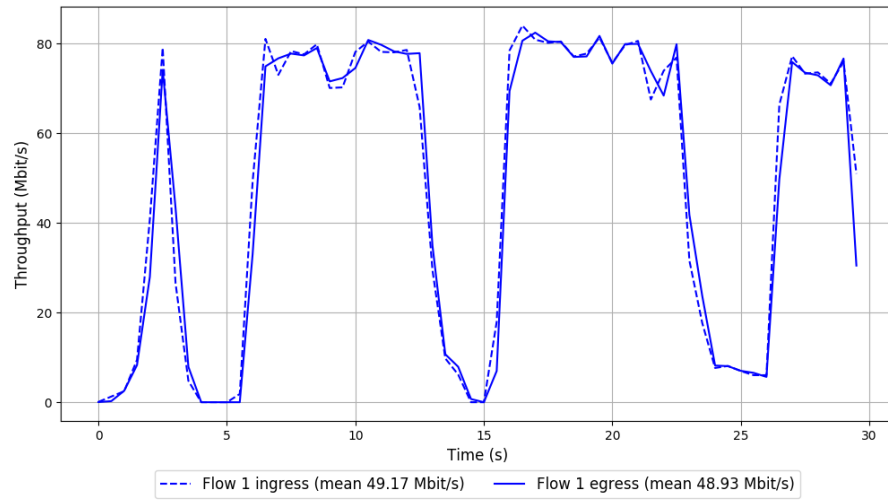
Average throughput: 48.93 Mbit/s

95th percentile per-packet one-way delay: 136.708 ms

Loss rate: 1.38%



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



Run 10: Statistics of QUIC Cubic

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

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

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 56.23 Mbit/s

95th percentile per-packet one-way delay: 136.575 ms

Loss rate: 1.27%

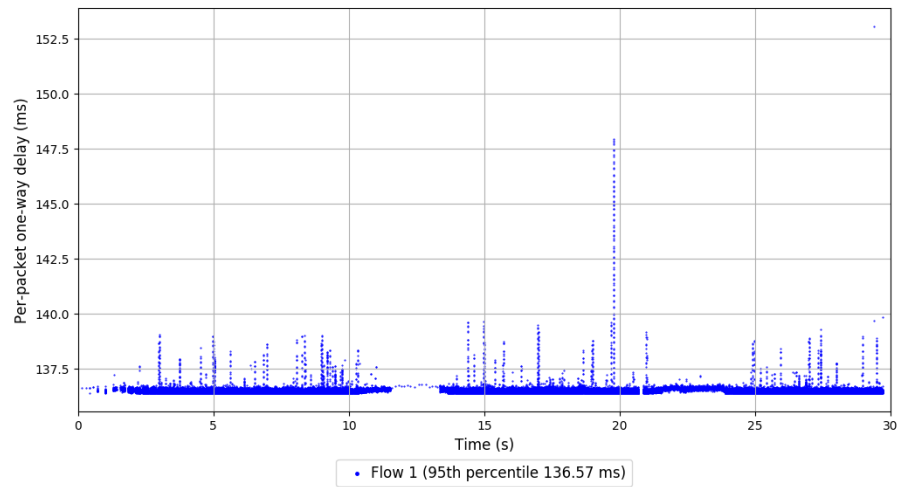
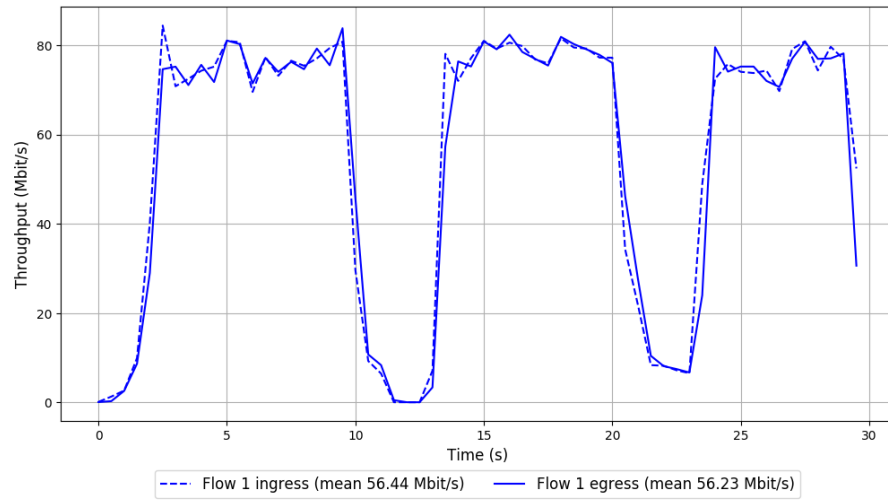
-- Flow 1:

Average throughput: 56.23 Mbit/s

95th percentile per-packet one-way delay: 136.575 ms

Loss rate: 1.27%

# Run 10: Report of QUIC Cubic — Data Link

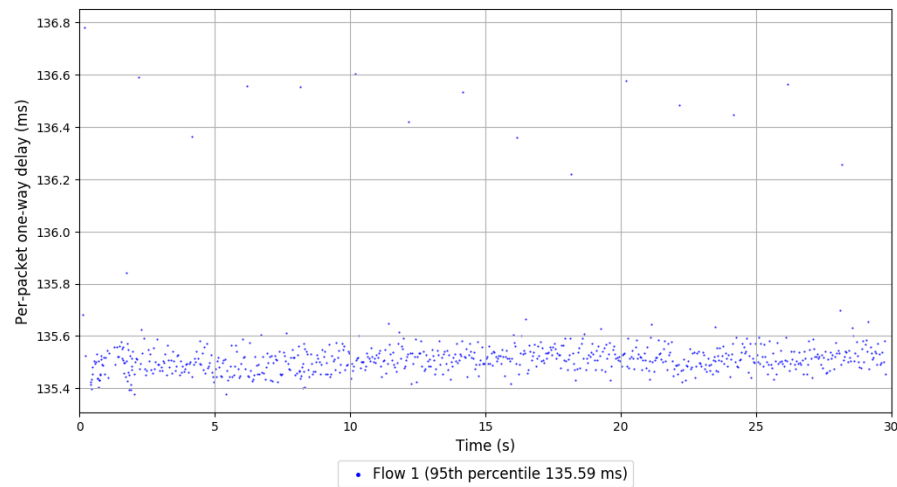
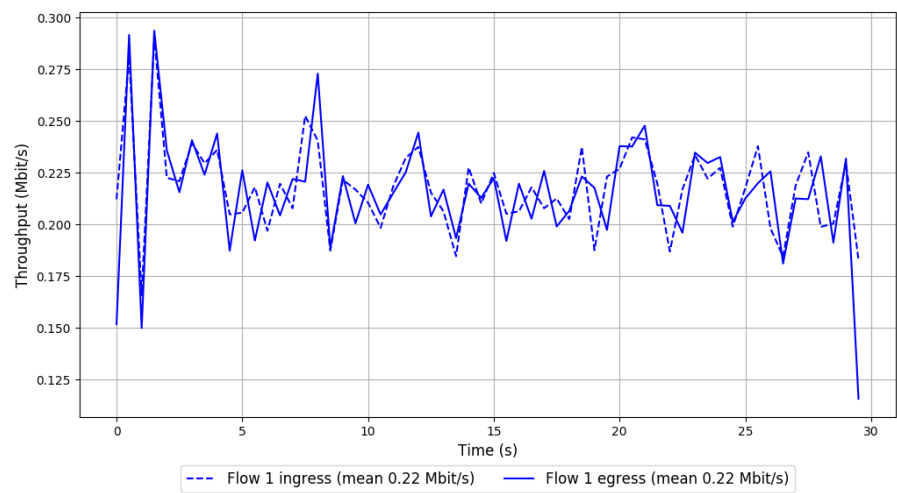


```
Run 1: Statistics of SCReAM

Start at: 2017-09-21 19:39:11
End at: 2017-09-21 19:39:41

# Below is generated by plot.py at 2017-09-21 23:45:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.593 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.593 ms
Loss rate: 0.89%
```

Run 1: Report of SReAM — Data Link

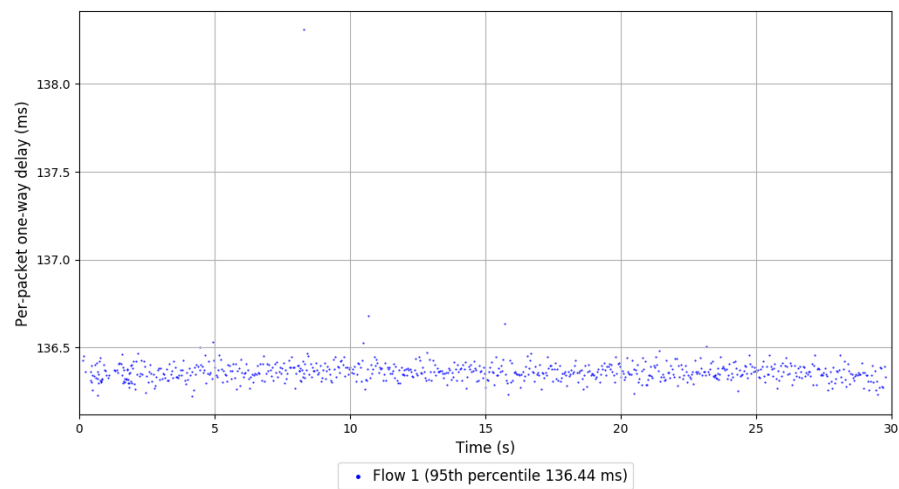
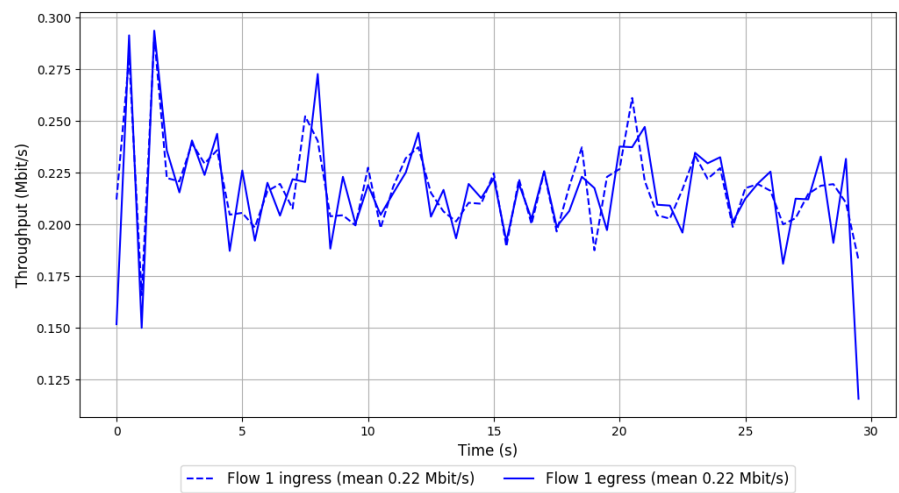


```
Run 2: Statistics of SCReAM

Start at: 2017-09-21 19:50:23
End at: 2017-09-21 19:50:53

# Below is generated by plot.py at 2017-09-21 23:45:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.438 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.438 ms
Loss rate: 0.89%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-09-21 20:01:34

End at: 2017-09-21 20:02:04

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.288 ms

Loss rate: 0.90%

-- Flow 1:

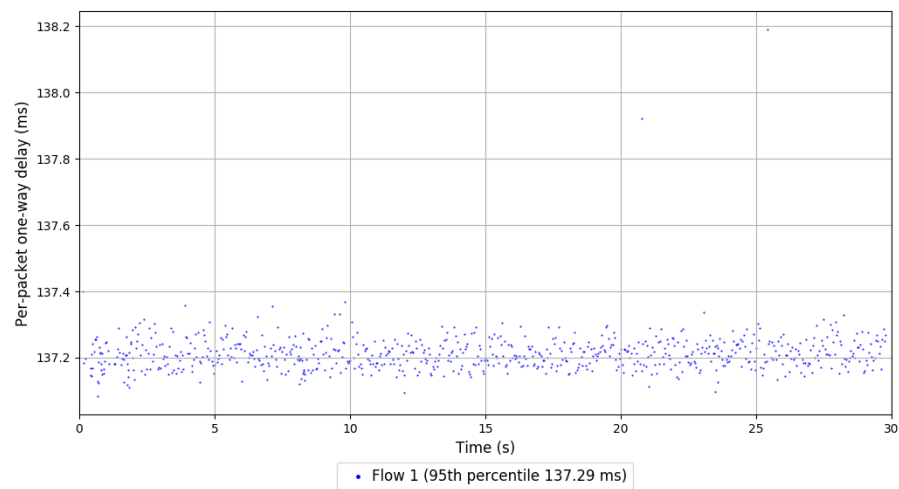
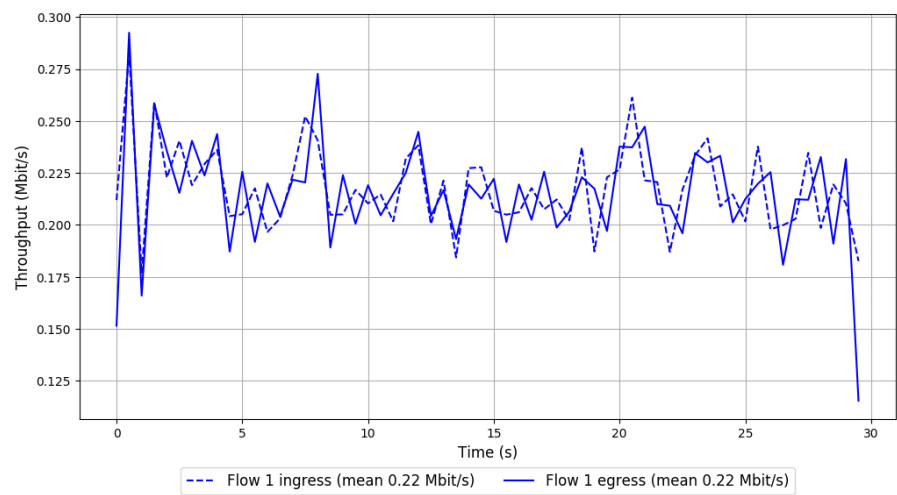
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.288 ms

Loss rate: 0.90%



Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-09-21 20:13:04

End at: 2017-09-21 20:13:34

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.465 ms

Loss rate: 0.89%

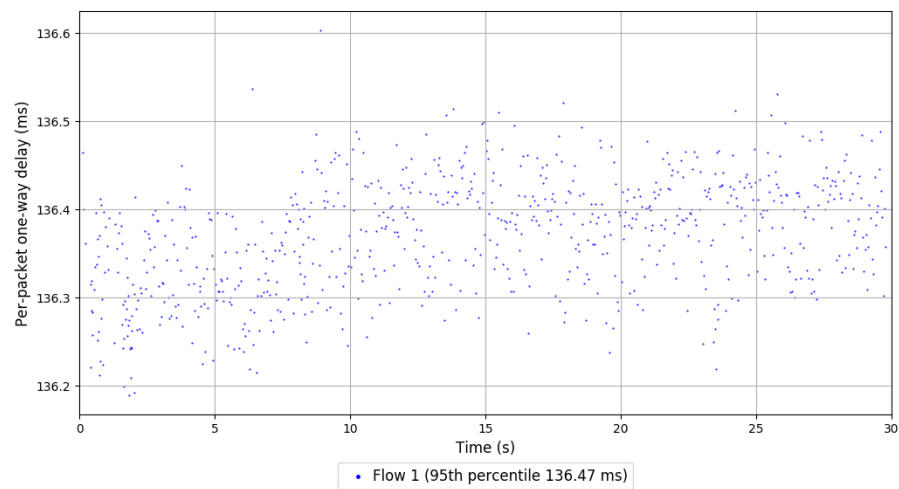
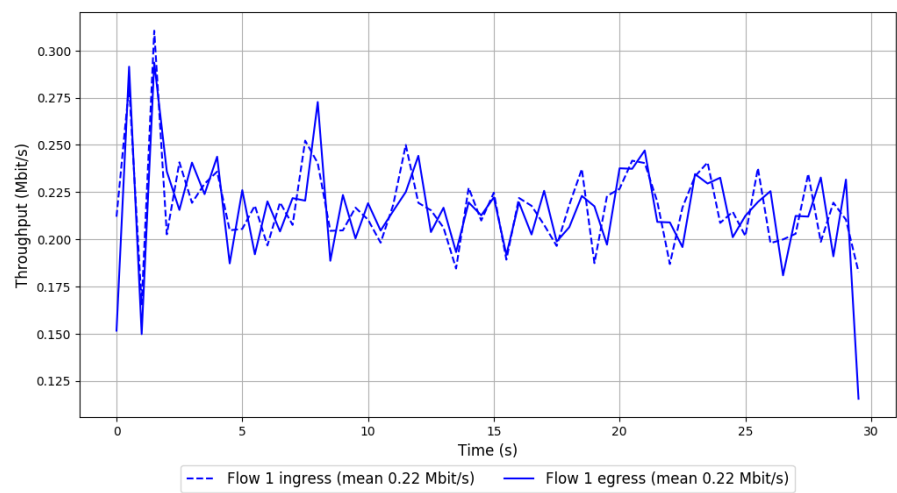
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.465 ms

Loss rate: 0.89%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-09-21 20:24:19

End at: 2017-09-21 20:24:49

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.701 ms

Loss rate: 0.89%

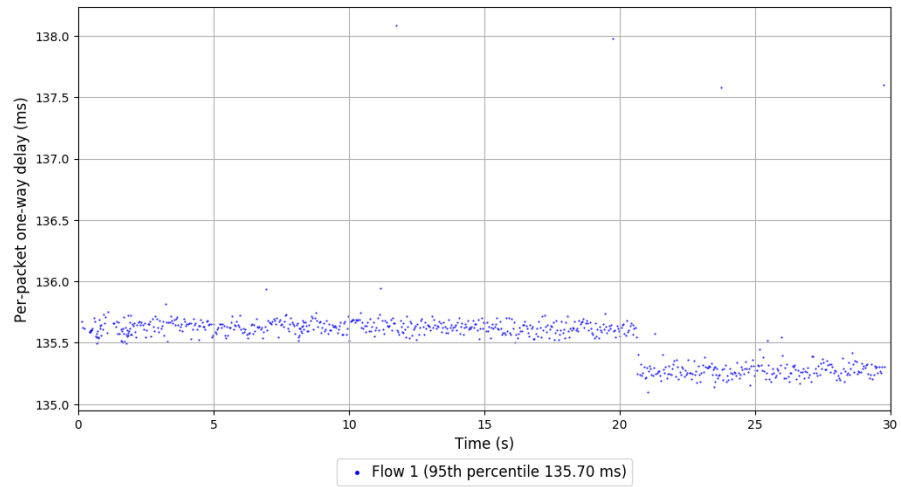
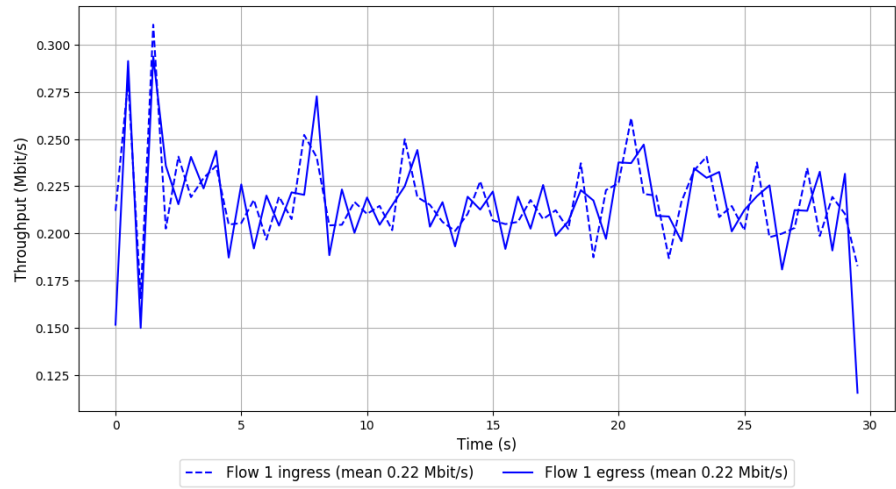
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.701 ms

Loss rate: 0.89%

## Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-09-21 20:35:18

End at: 2017-09-21 20:35:48

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.735 ms

Loss rate: 0.89%

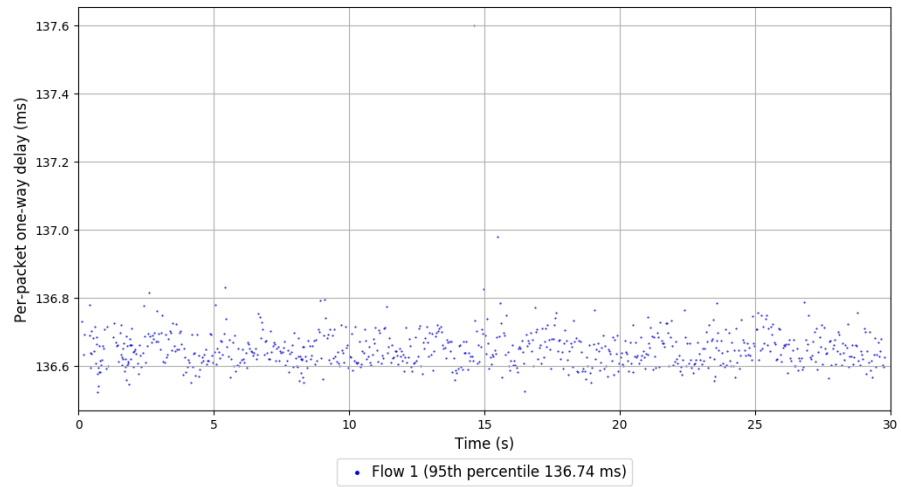
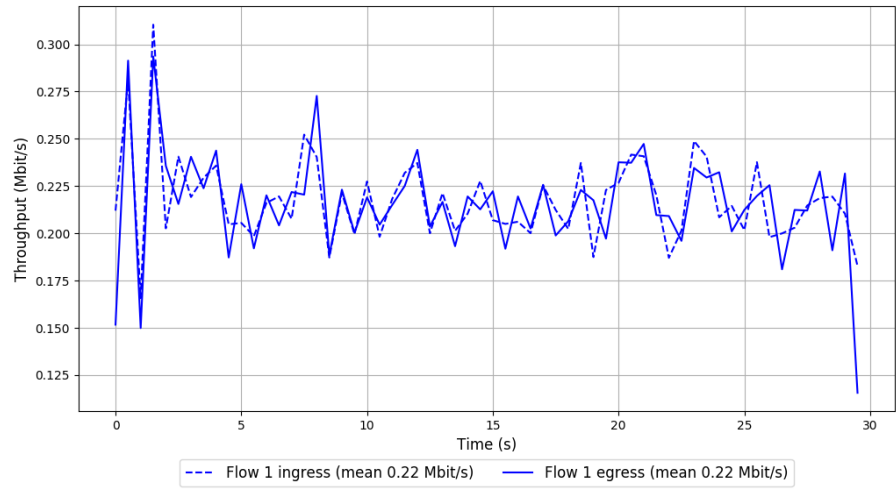
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.735 ms

Loss rate: 0.89%

## Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-09-21 20:46:29

End at: 2017-09-21 20:46:59

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.076 ms

Loss rate: 0.89%

-- Flow 1:

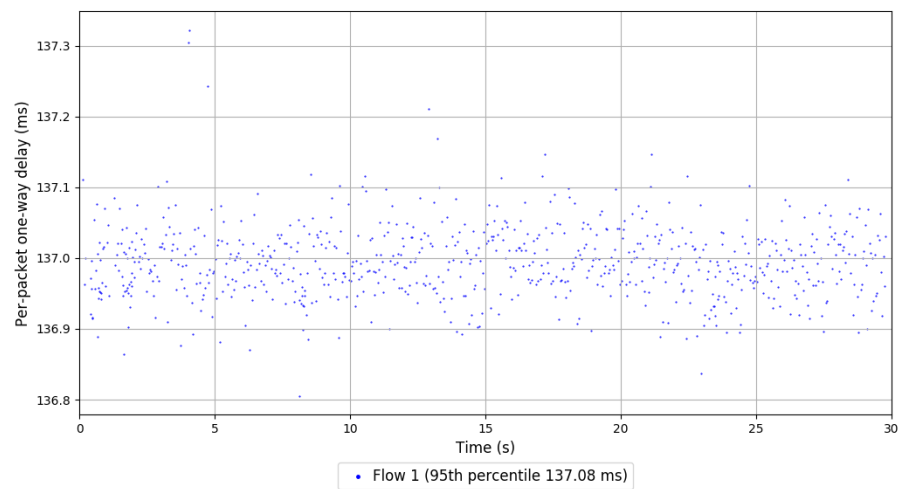
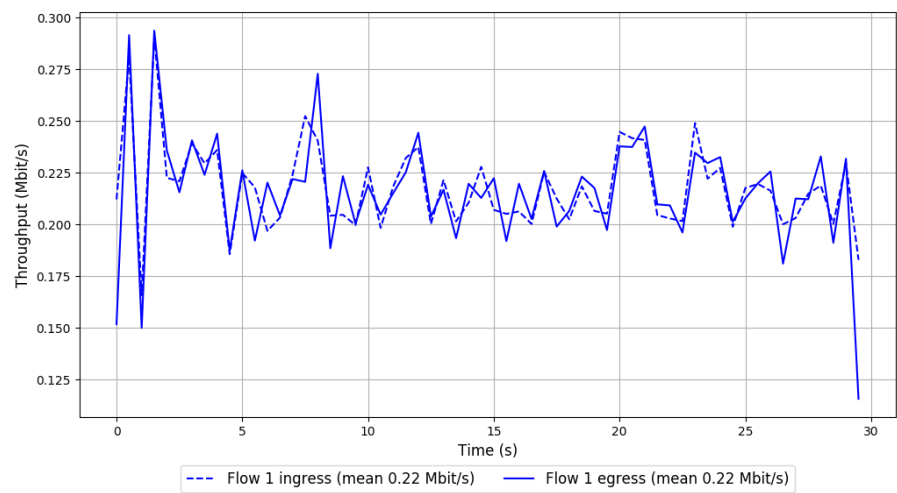
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.076 ms

Loss rate: 0.89%



Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

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

End at: 2017-09-21 20:58:50

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.019 ms

Loss rate: 0.89%

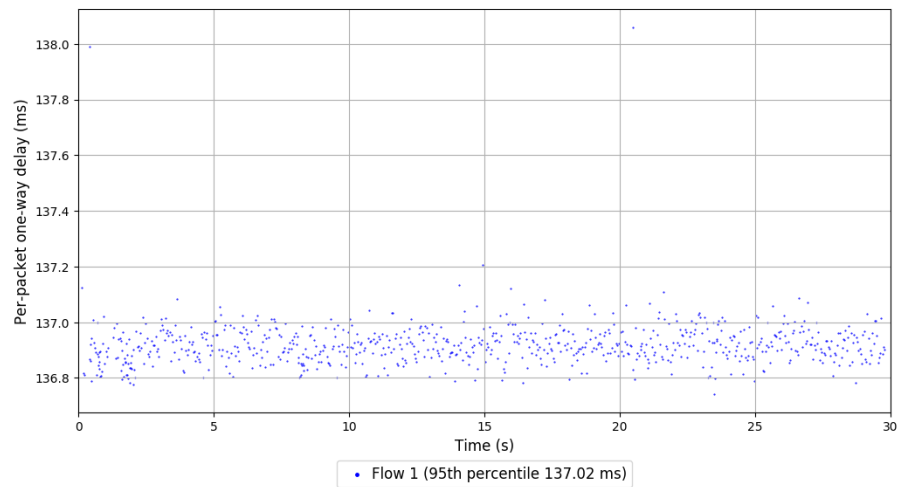
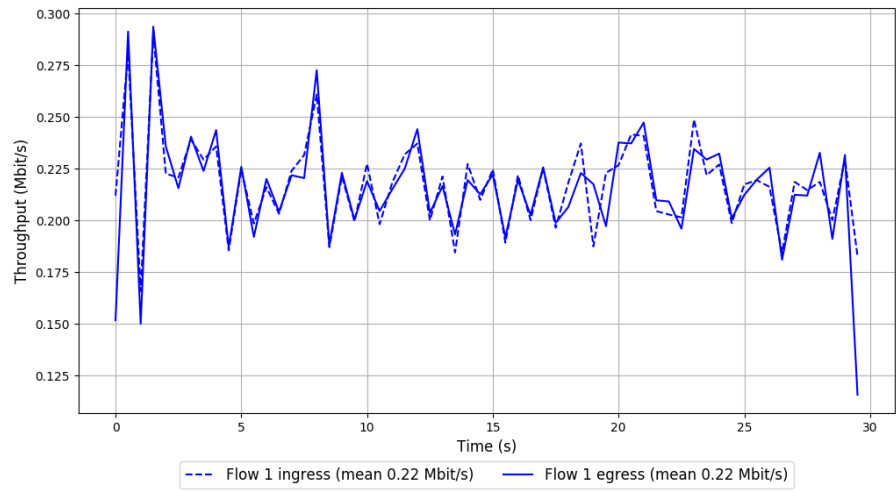
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.019 ms

Loss rate: 0.89%

## Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

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

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

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 137.053 ms

Loss rate: 0.89%

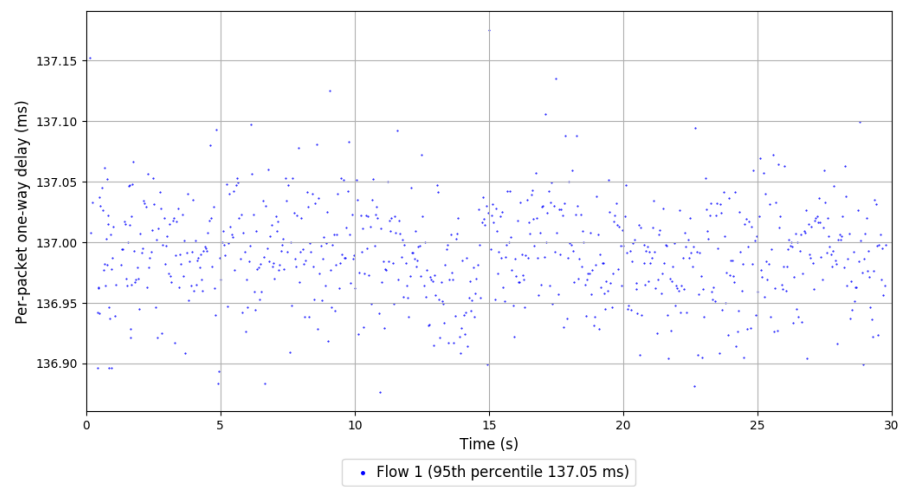
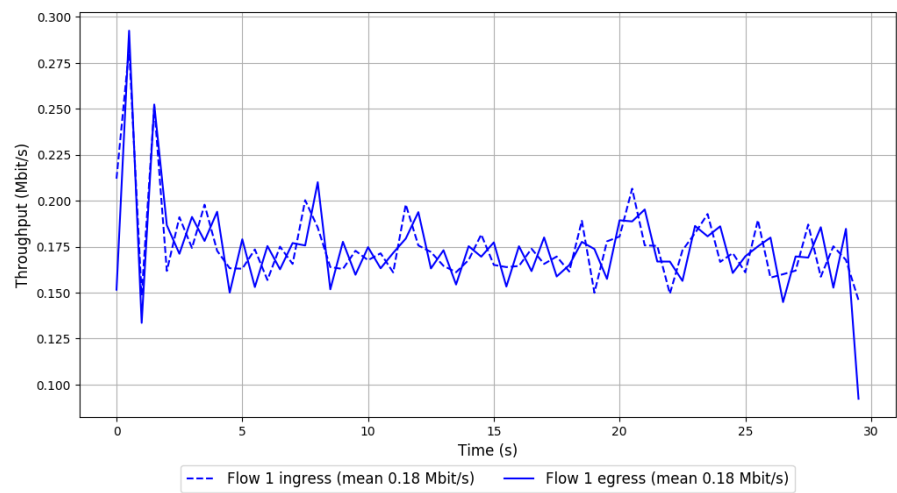
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 137.053 ms

Loss rate: 0.89%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

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

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

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.742 ms

Loss rate: 0.89%

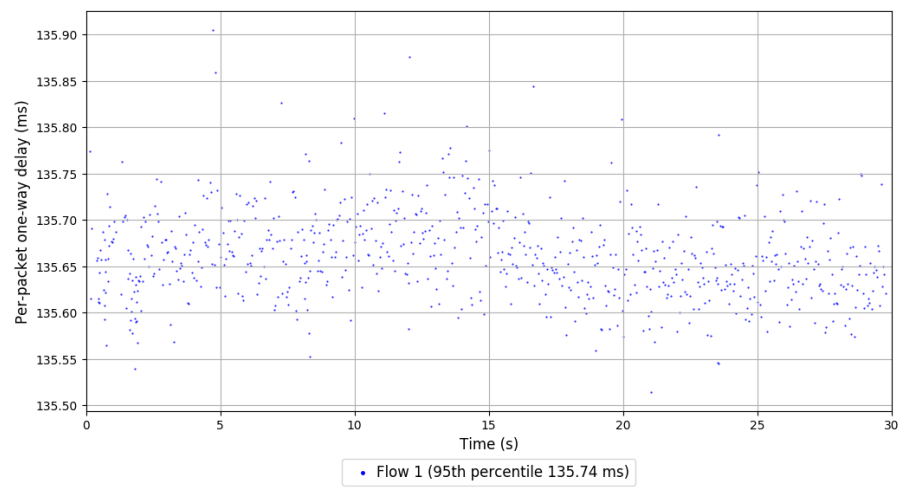
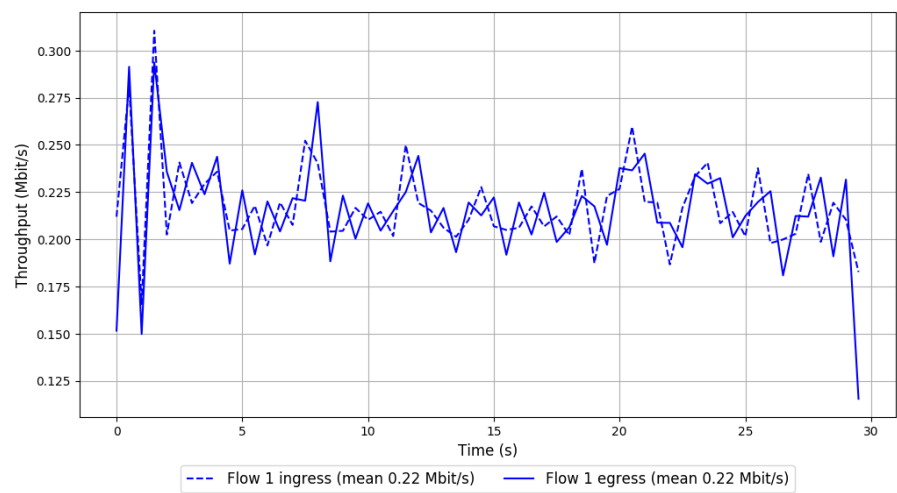
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.742 ms

Loss rate: 0.89%

Run 10: Report of SReAM — Data Link



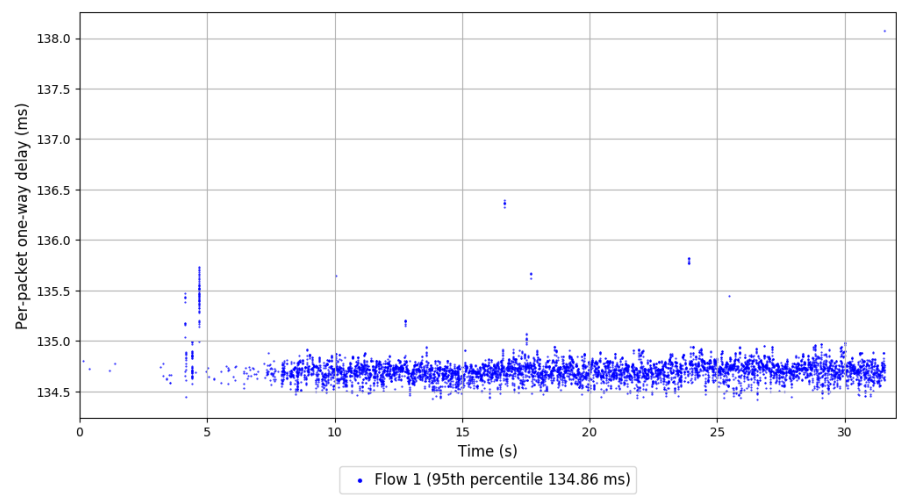
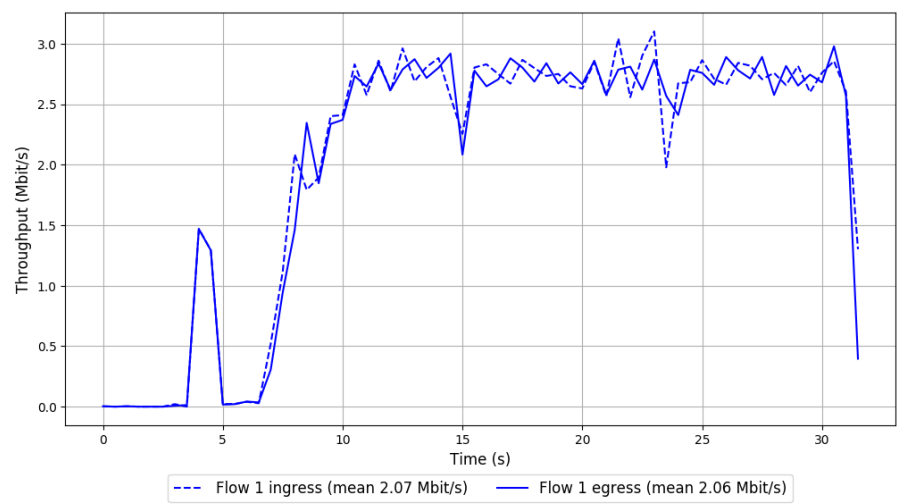
```
Run 1: Statistics of WebRTC media

Start at: 2017-09-21 19:46:31
End at: 2017-09-21 19:47:01

# Below is generated by plot.py at 2017-09-21 23:45:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 134.858 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 134.858 ms
Loss rate: 1.21%
```



Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-09-21 19:57:40

End at: 2017-09-21 19:58:10

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 137.022 ms

Loss rate: 1.22%

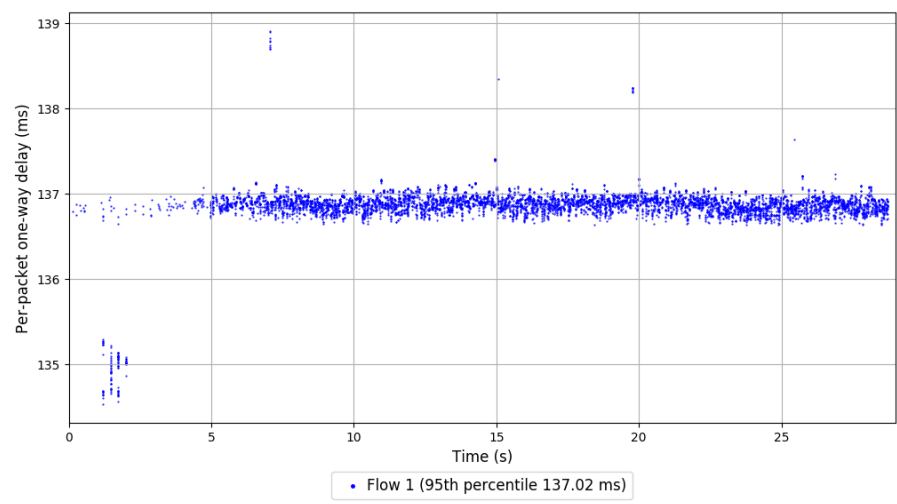
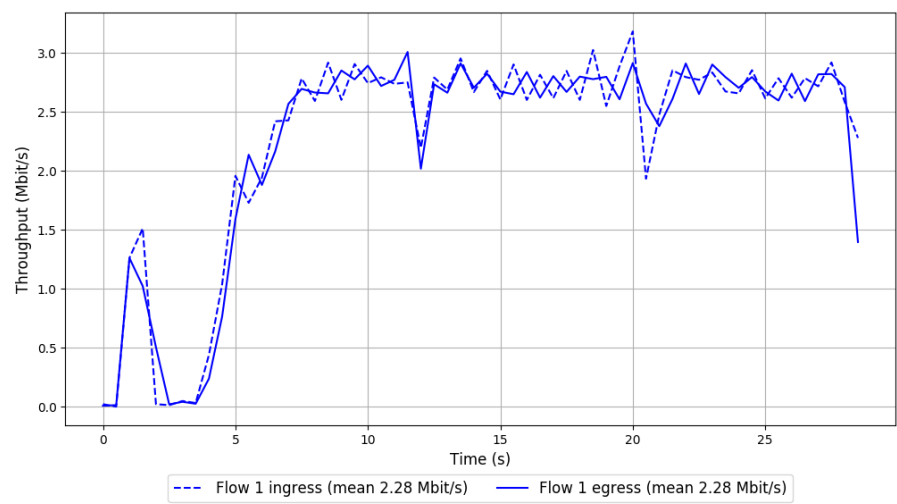
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 137.022 ms

Loss rate: 1.22%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

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

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

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 136.594 ms

Loss rate: 1.27%

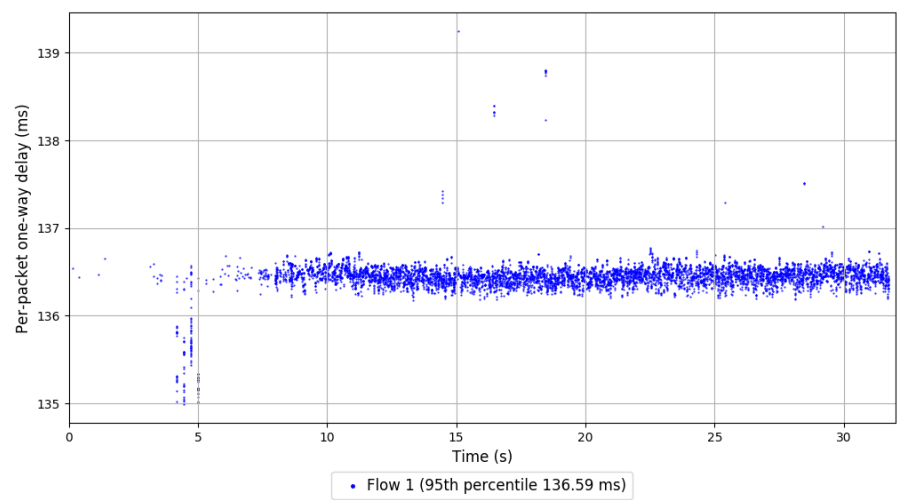
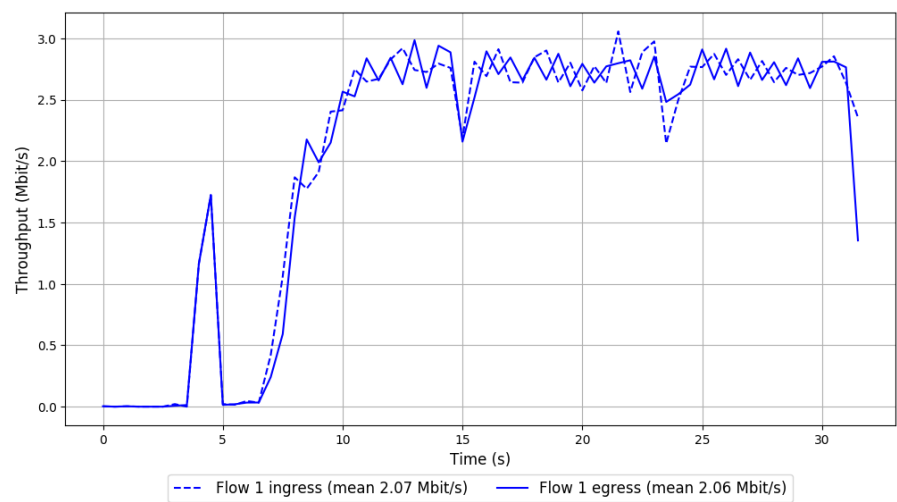
-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 136.594 ms

Loss rate: 1.27%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

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

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

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 135.345 ms

Loss rate: 1.22%

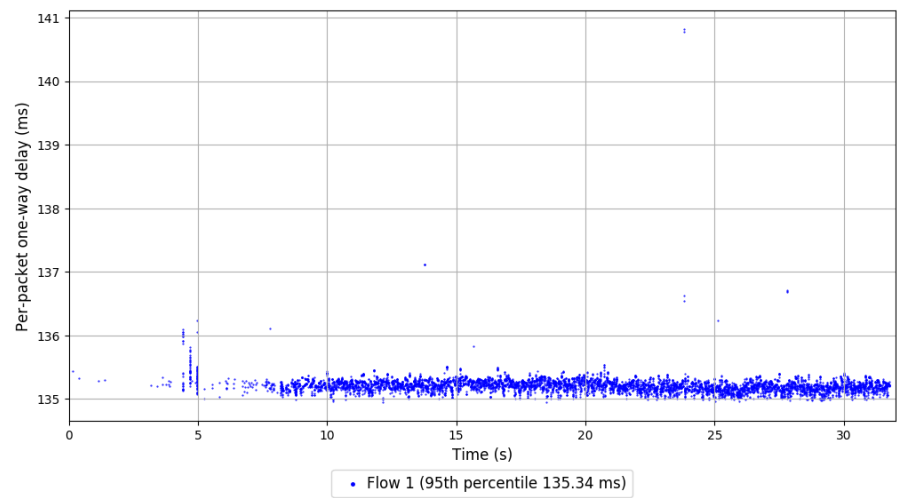
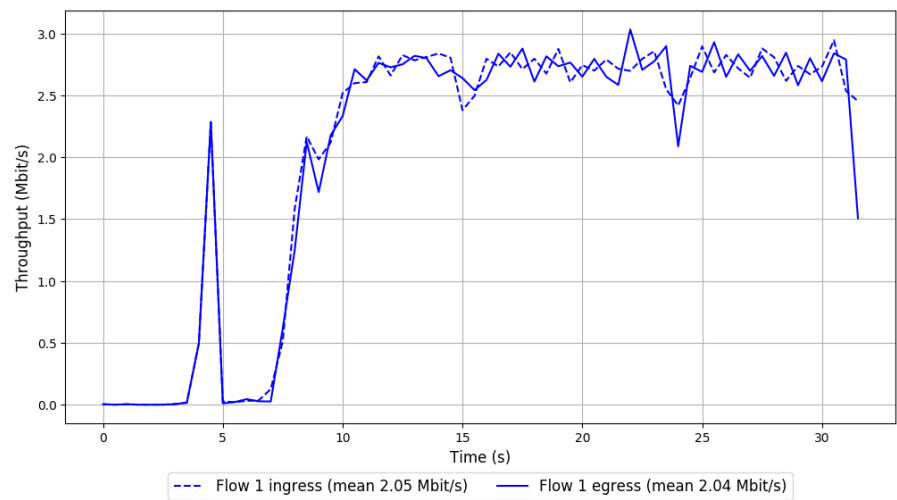
-- Flow 1:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 135.345 ms

Loss rate: 1.22%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-09-21 20:31:34

End at: 2017-09-21 20:32:04

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 136.836 ms

Loss rate: 1.23%

-- Flow 1:

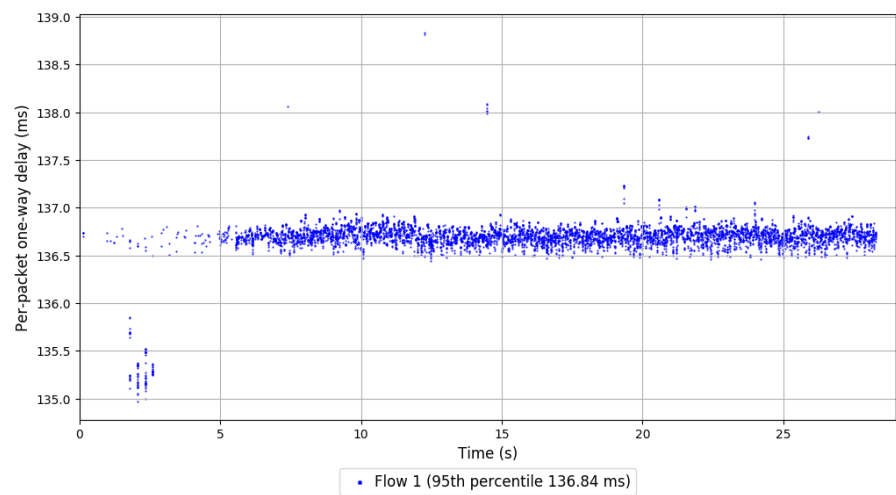
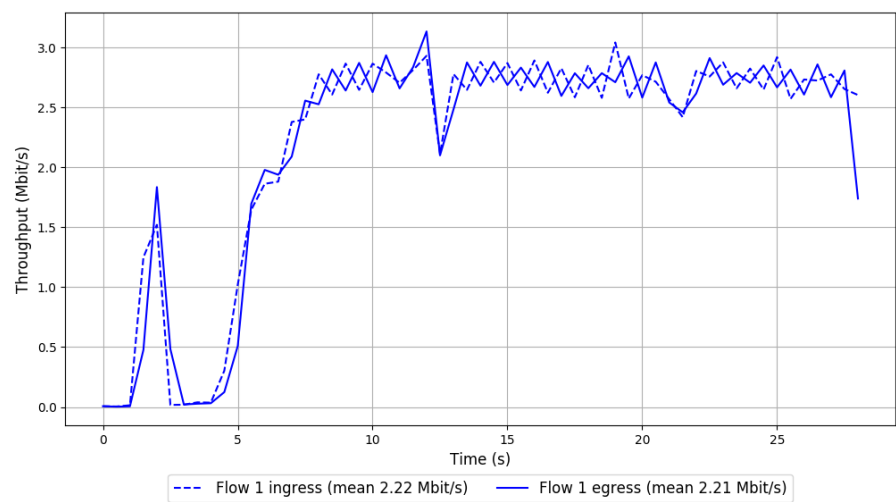
Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 136.836 ms

Loss rate: 1.23%



Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-09-21 20:42:30

End at: 2017-09-21 20:43:00

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 137.067 ms

Loss rate: 1.25%

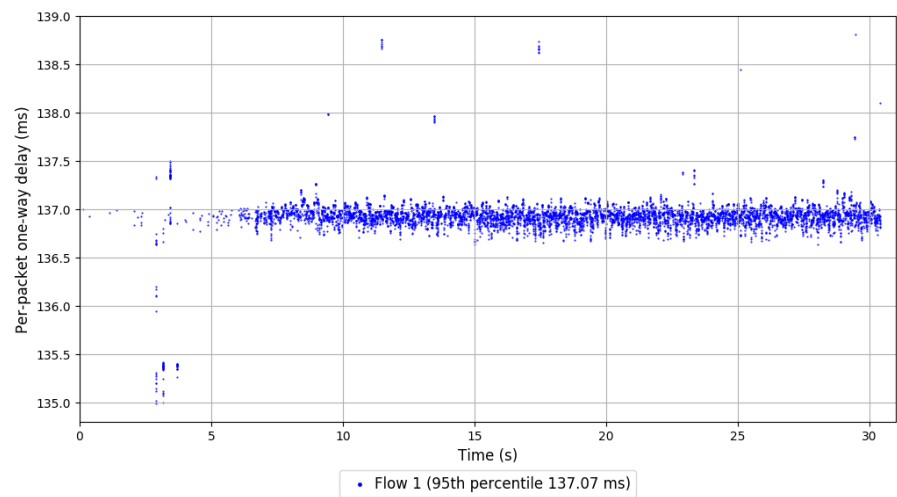
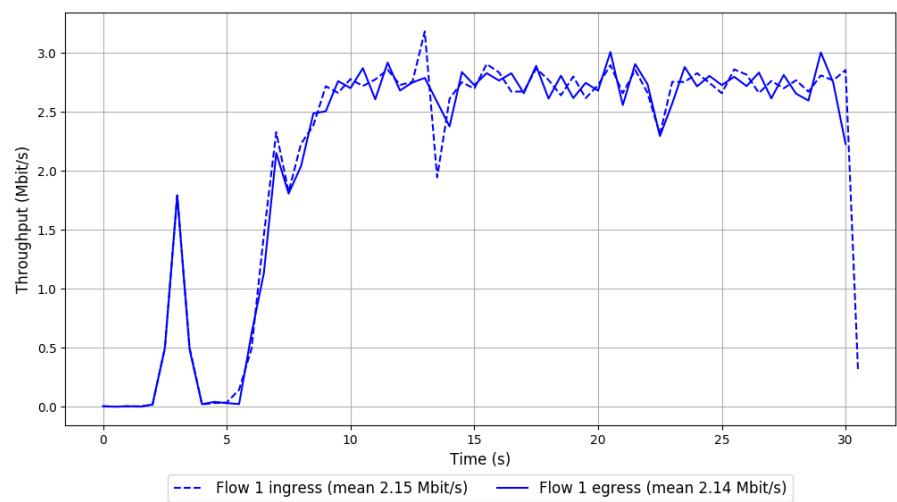
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 137.067 ms

Loss rate: 1.25%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-09-21 20:54:06

End at: 2017-09-21 20:54:36

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 136.803 ms

Loss rate: 1.19%

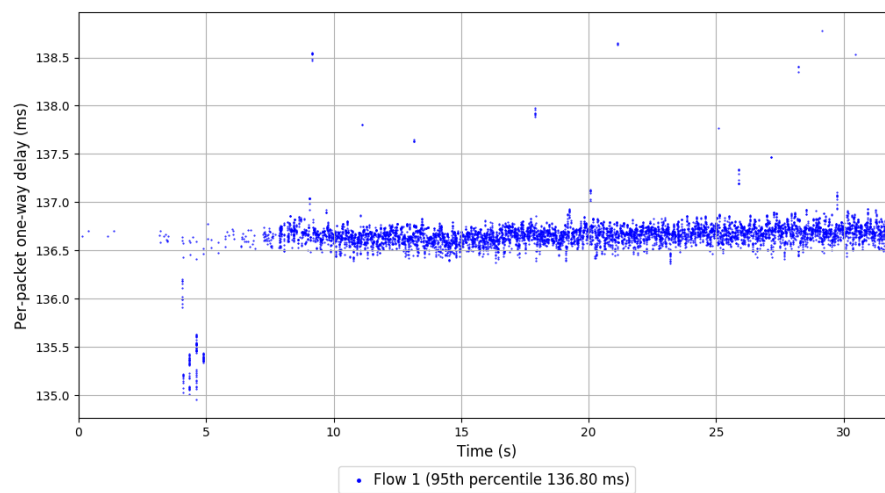
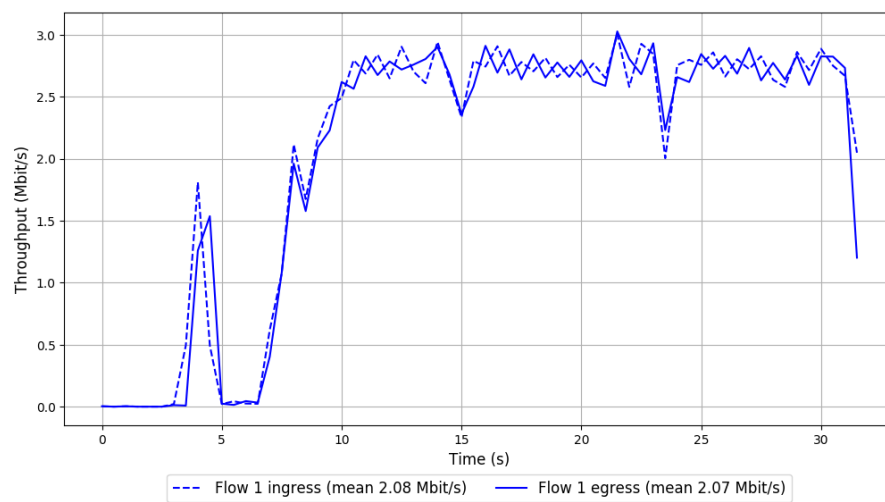
-- Flow 1:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 136.803 ms

Loss rate: 1.19%

## Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

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

End at: 2017-09-21 21:06:12

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 163.372 ms

Loss rate: 1.42%

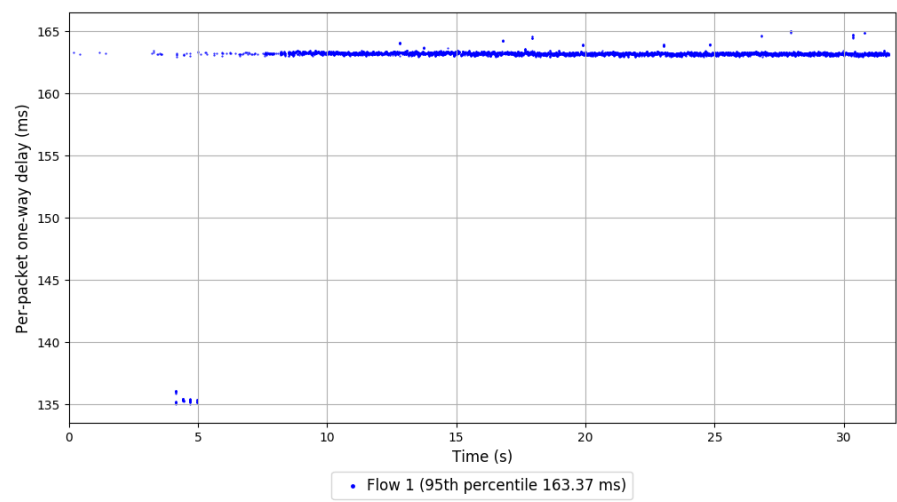
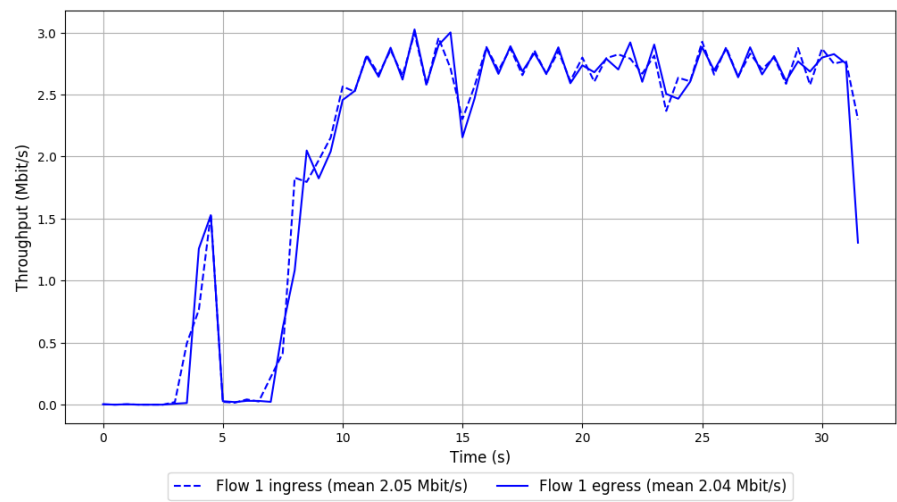
-- Flow 1:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 163.372 ms

Loss rate: 1.42%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

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

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

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 136.631 ms

Loss rate: 1.24%

-- Flow 1:

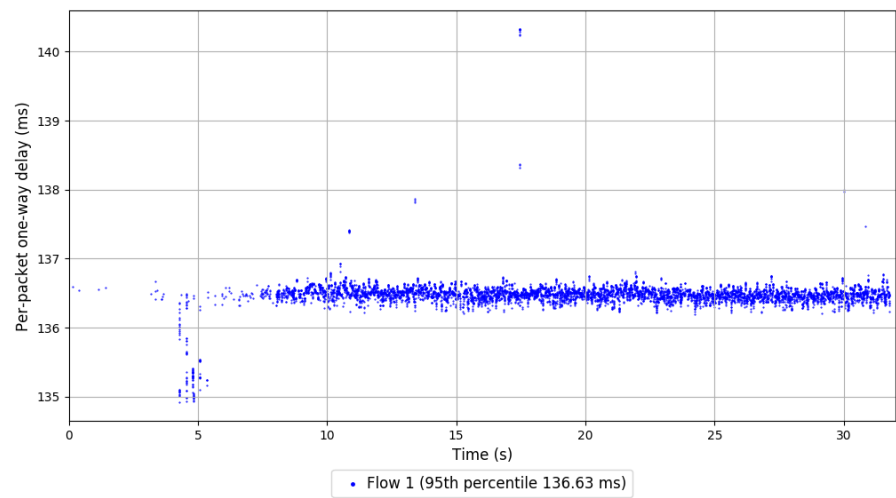
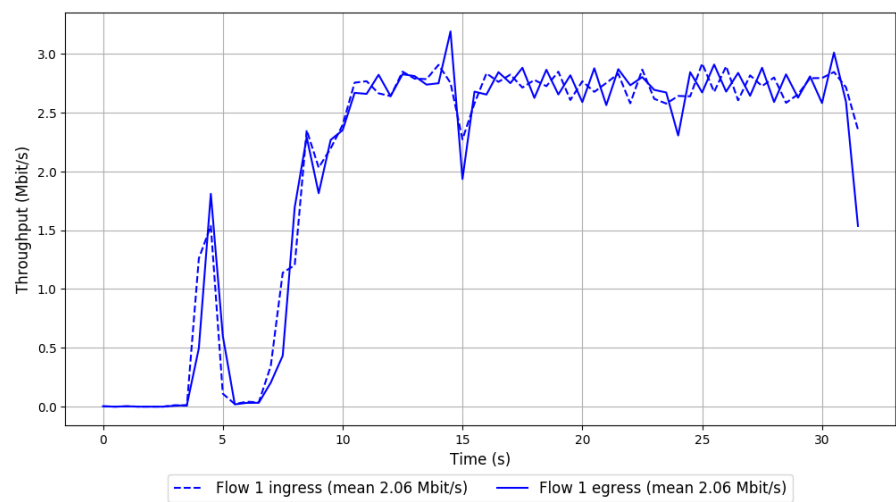
Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 136.631 ms

Loss rate: 1.24%



Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

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

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

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 135.980 ms

Loss rate: 1.19%

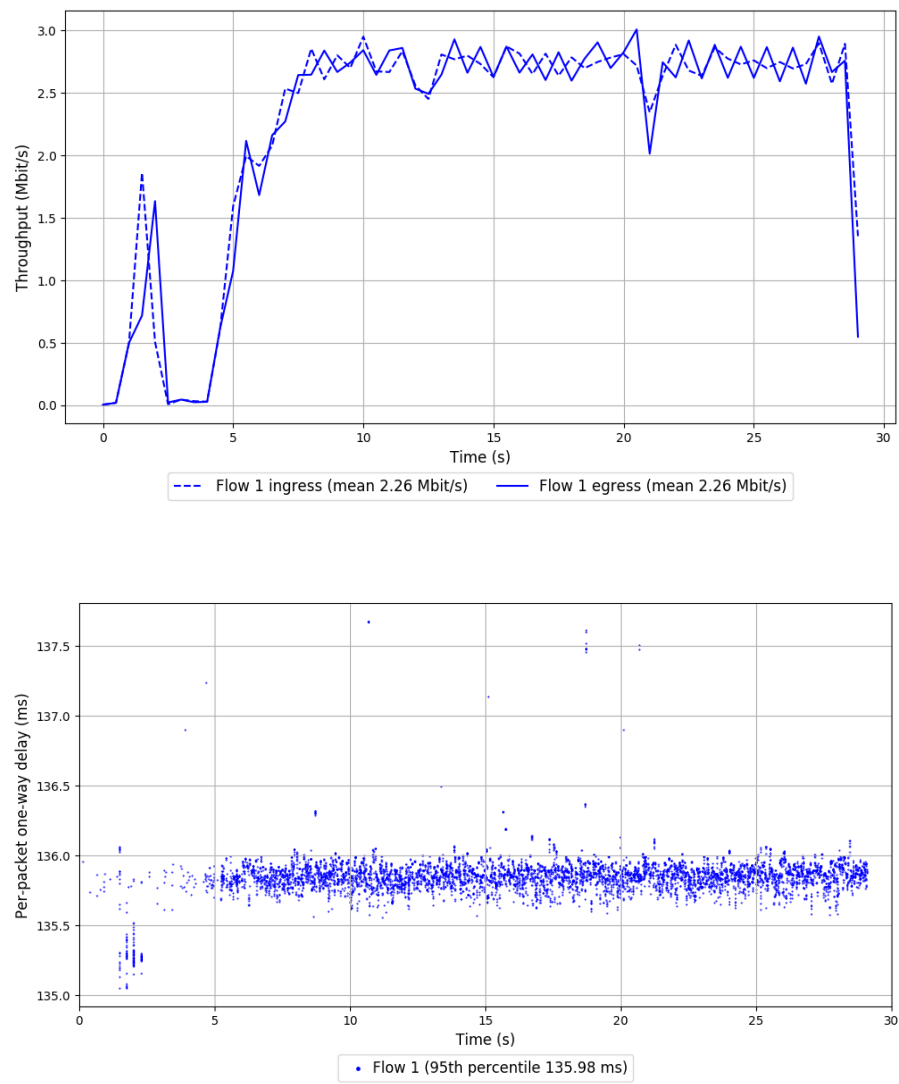
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 135.980 ms

Loss rate: 1.19%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-09-21 19:45:49

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

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.346 ms

Loss rate: 0.17%

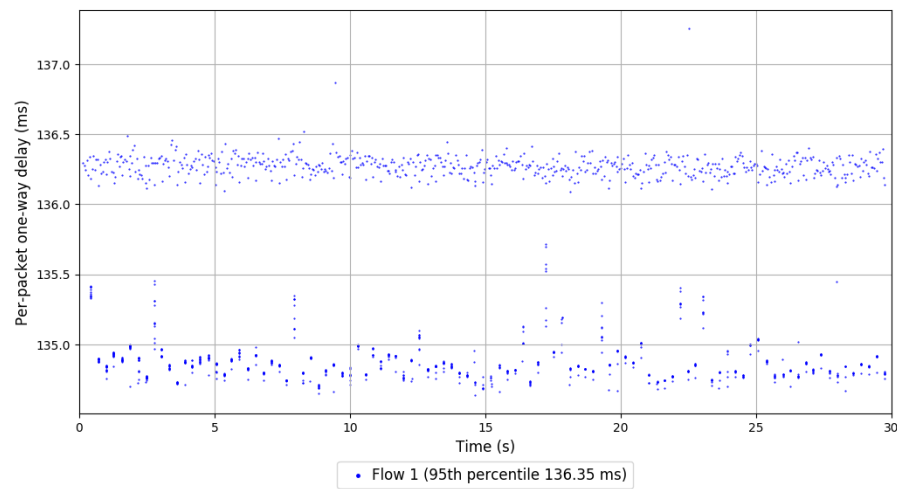
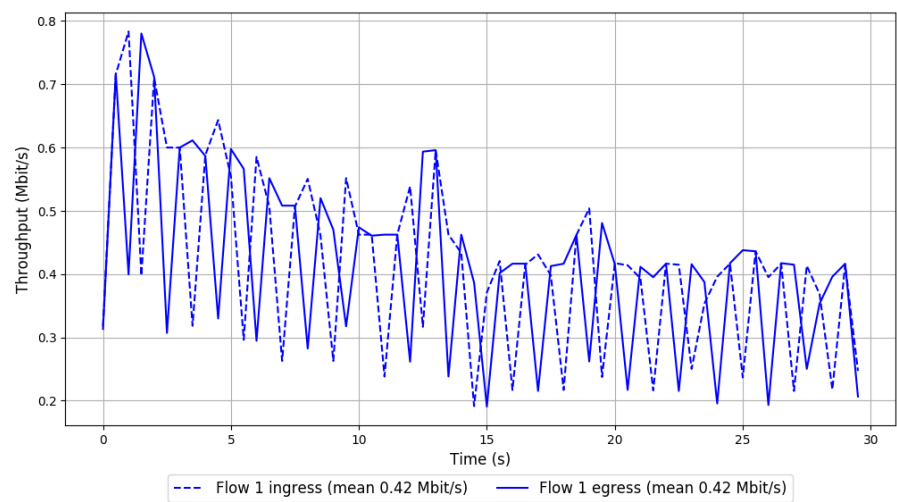
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.346 ms

Loss rate: 0.17%

Run 1: Report of Sprout — Data Link

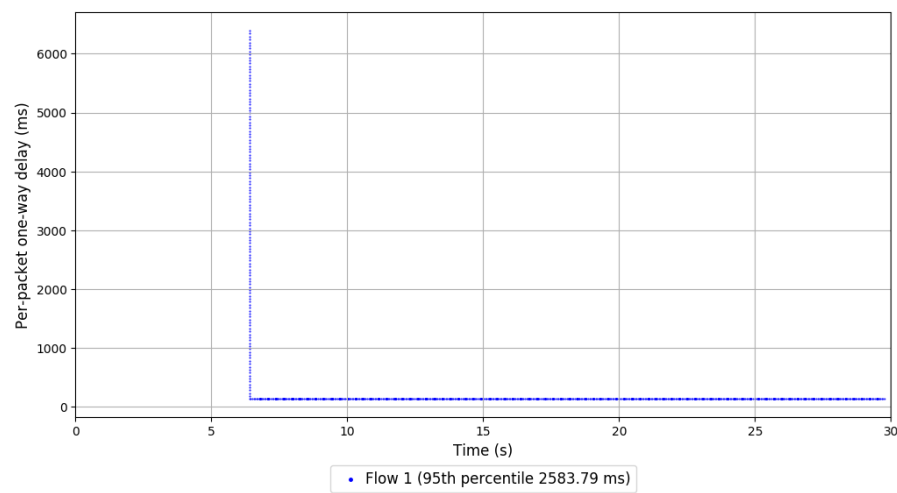
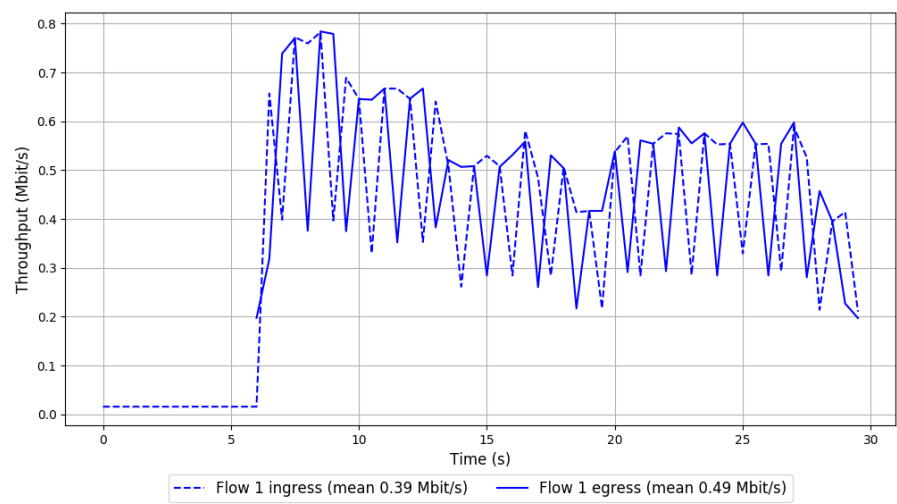


Run 2: Statistics of Sprout

Start at: 2017-09-21 19:56:57

End at: 2017-09-21 19:57:27

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-09-21 20:08:28

End at: 2017-09-21 20:08:58

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 135.904 ms

Loss rate: 0.80%

-- Flow 1:

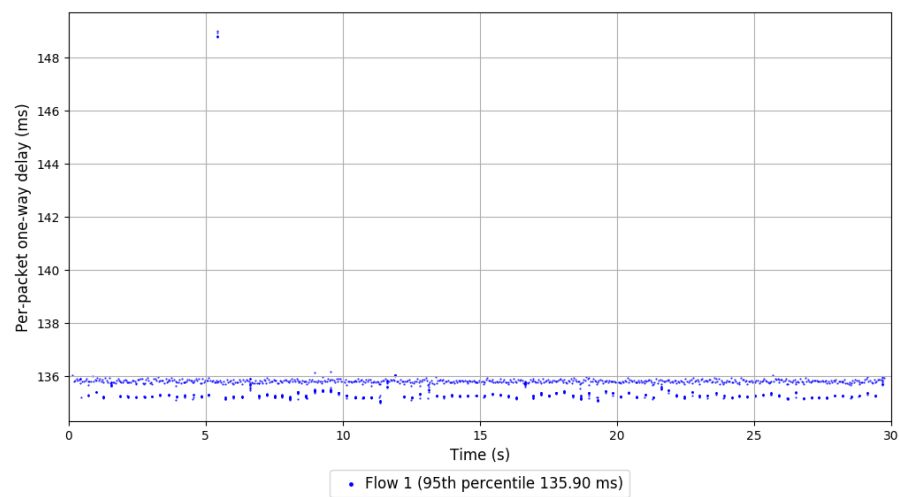
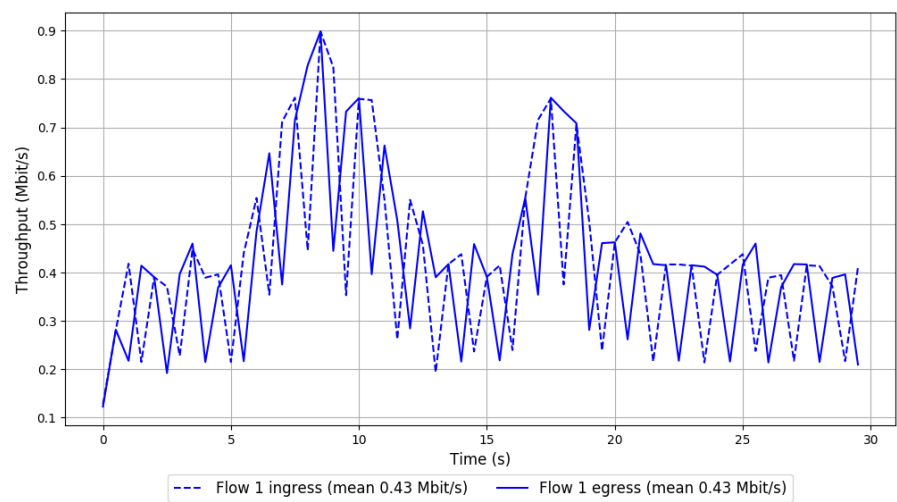
Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 135.904 ms

Loss rate: 0.80%



Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-09-21 20:19:39

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

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 137.117 ms

Loss rate: 1.32%

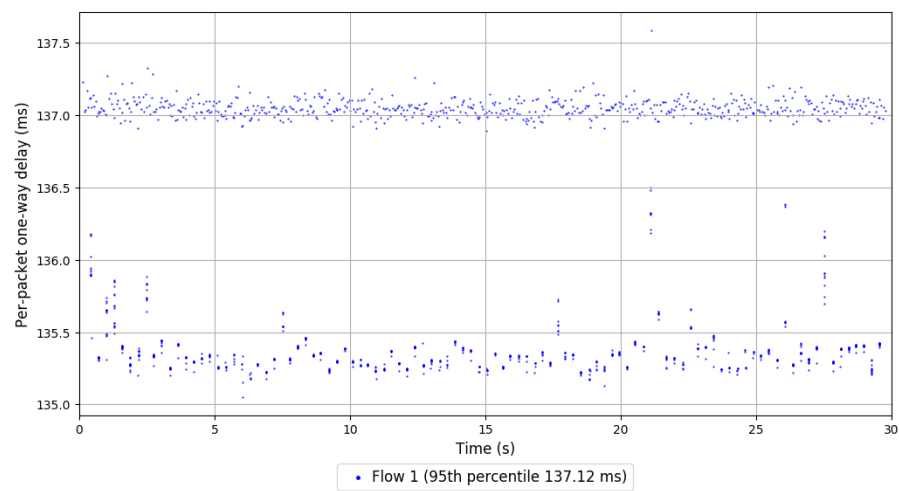
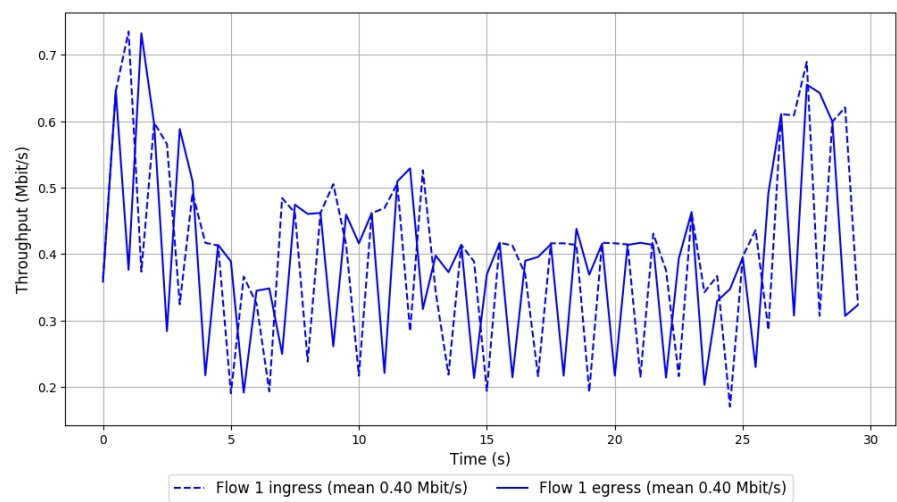
-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 137.117 ms

Loss rate: 1.32%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-09-21 20:30:51

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

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 136.998 ms

Loss rate: 0.64%

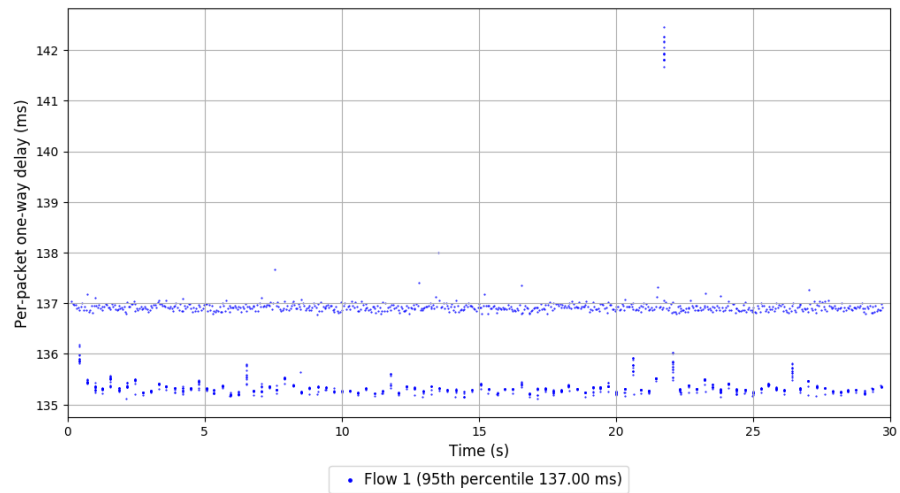
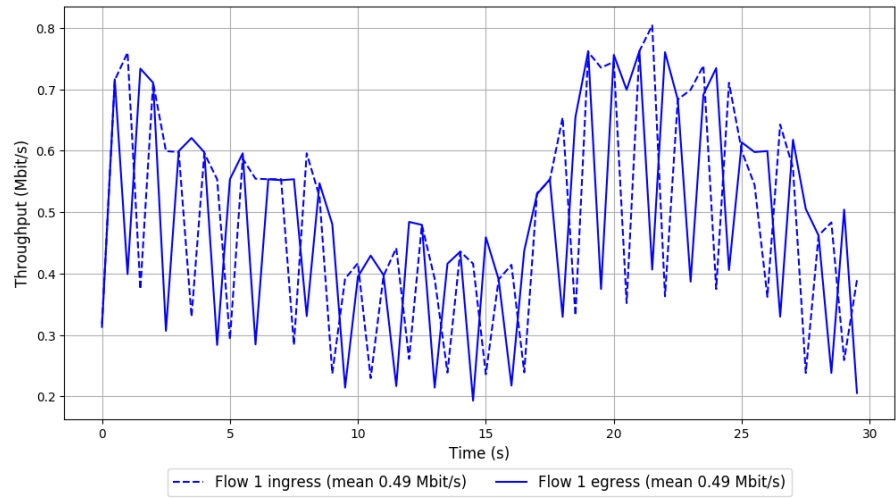
-- Flow 1:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 136.998 ms

Loss rate: 0.64%

## Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-09-21 20:41:48

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

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 135.615 ms

Loss rate: 0.76%

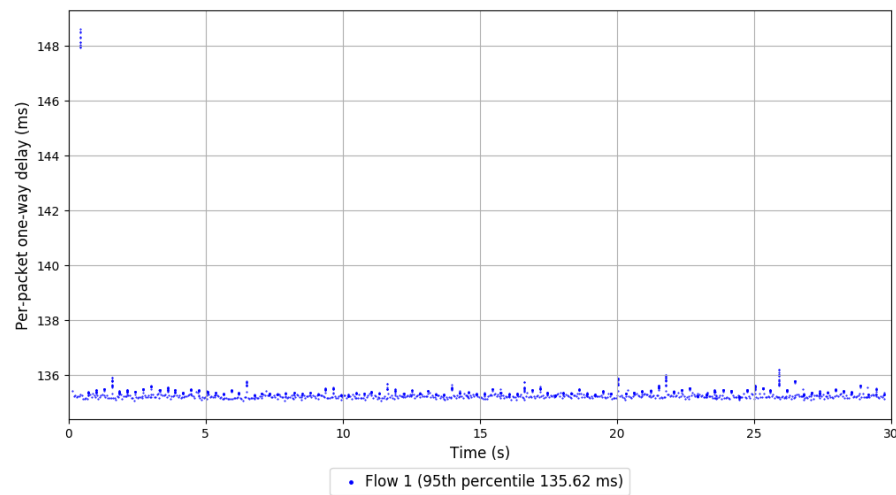
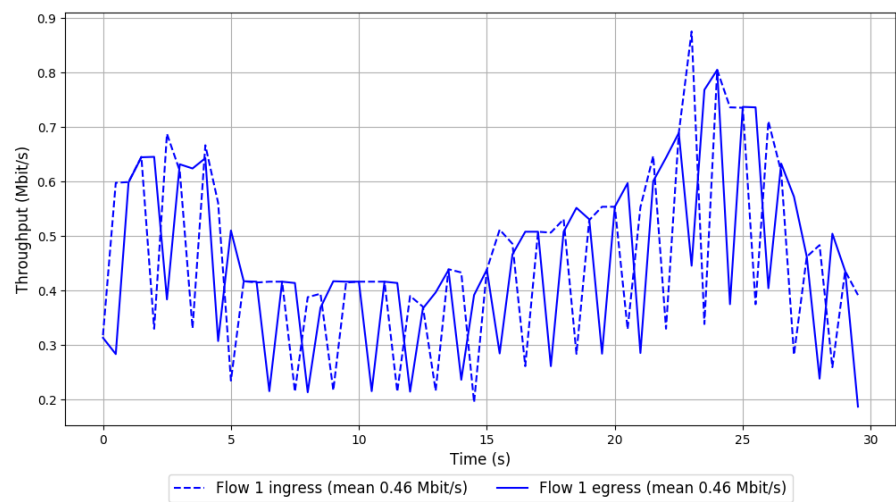
-- Flow 1:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 135.615 ms

Loss rate: 0.76%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-09-21 20:53:23

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

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 135.575 ms

Loss rate: 1.17%

-- Flow 1:

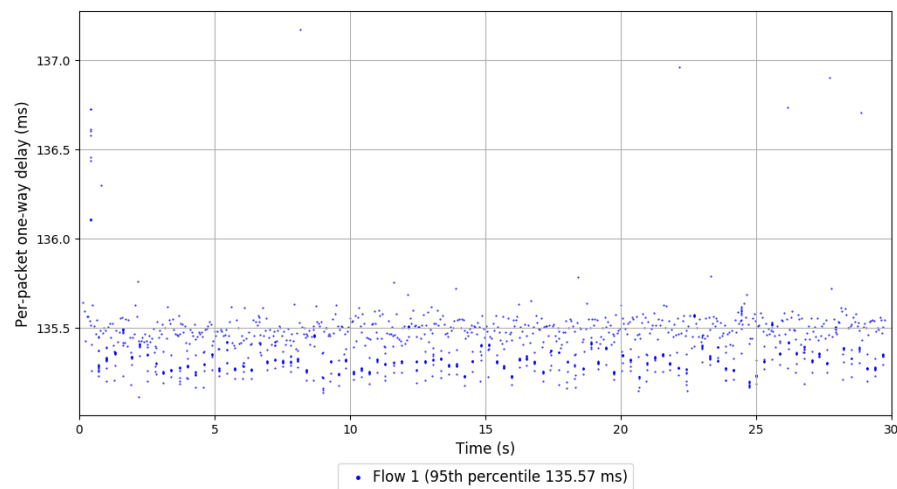
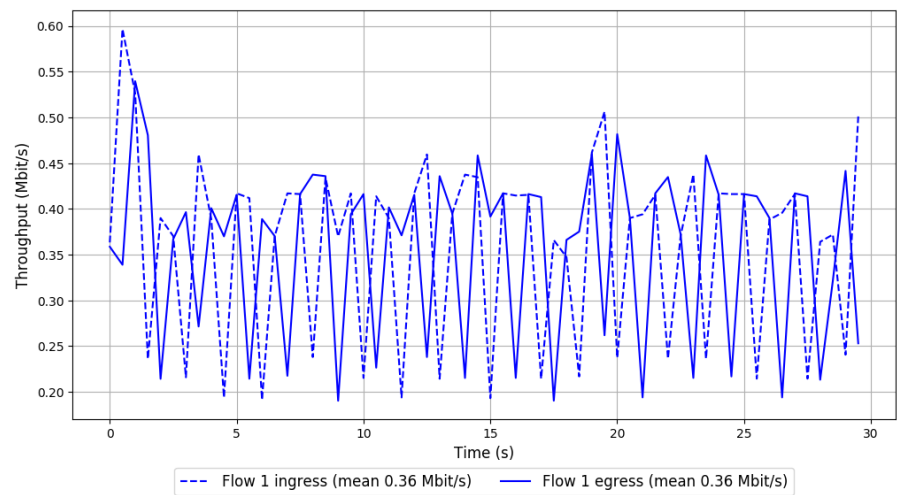
Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 135.575 ms

Loss rate: 1.17%



Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-09-21 21:04:59

End at: 2017-09-21 21:05:29

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.861 ms

Loss rate: 0.88%

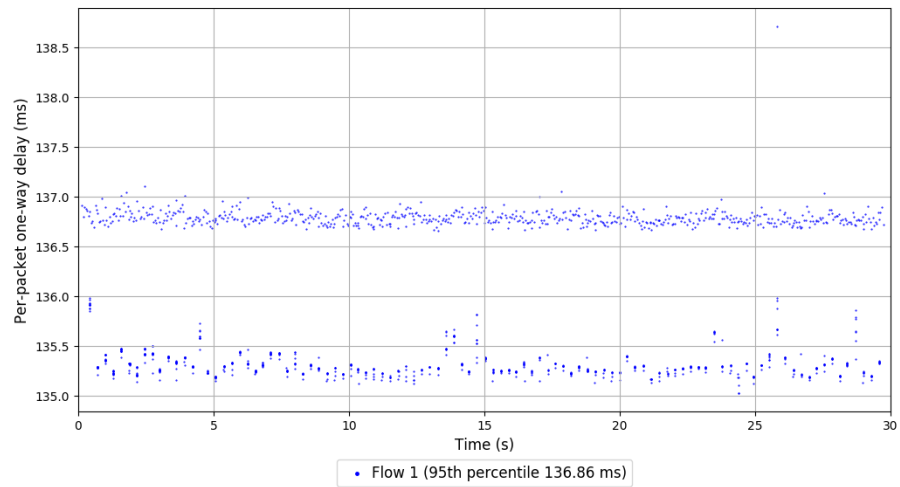
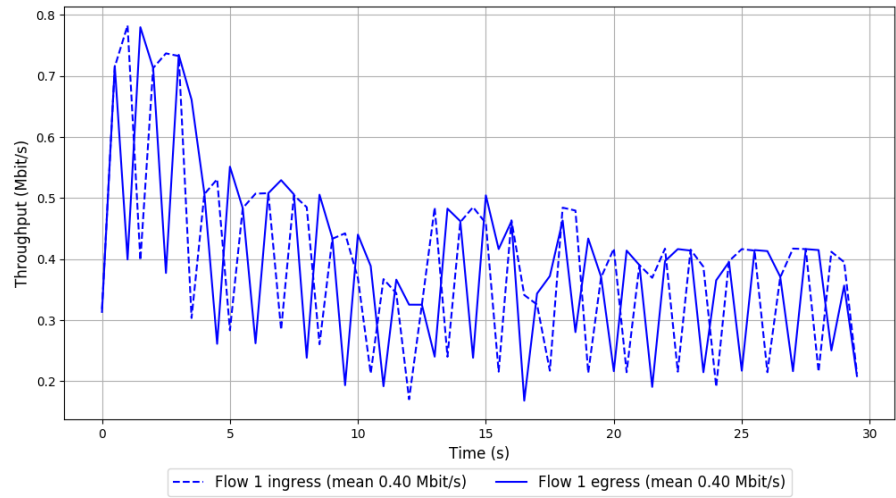
-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.861 ms

Loss rate: 0.88%

## Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

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

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

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 135.695 ms

Loss rate: 1.10%

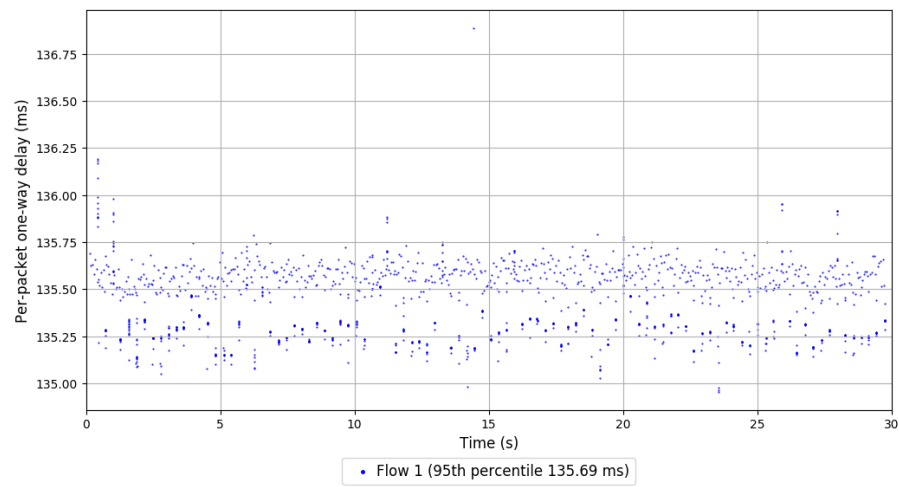
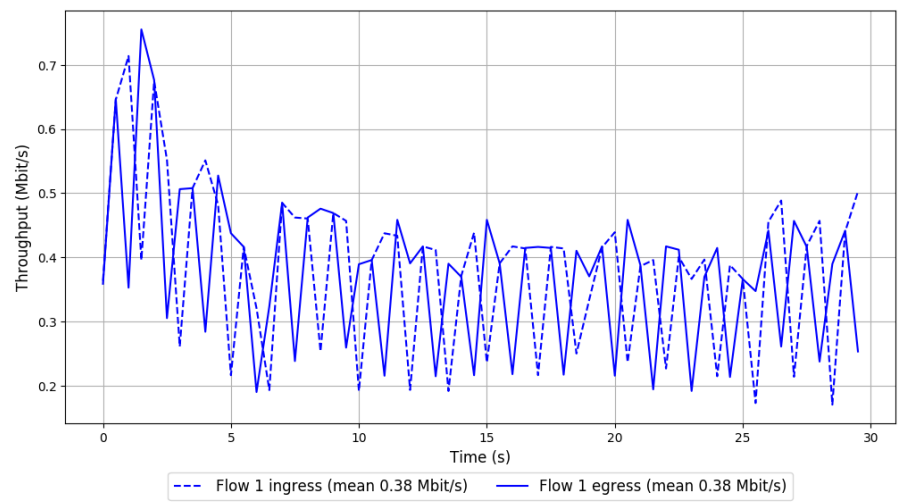
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 135.695 ms

Loss rate: 1.10%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-09-21 21:27:49

End at: 2017-09-21 21:28:19

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 135.732 ms

Loss rate: 1.36%

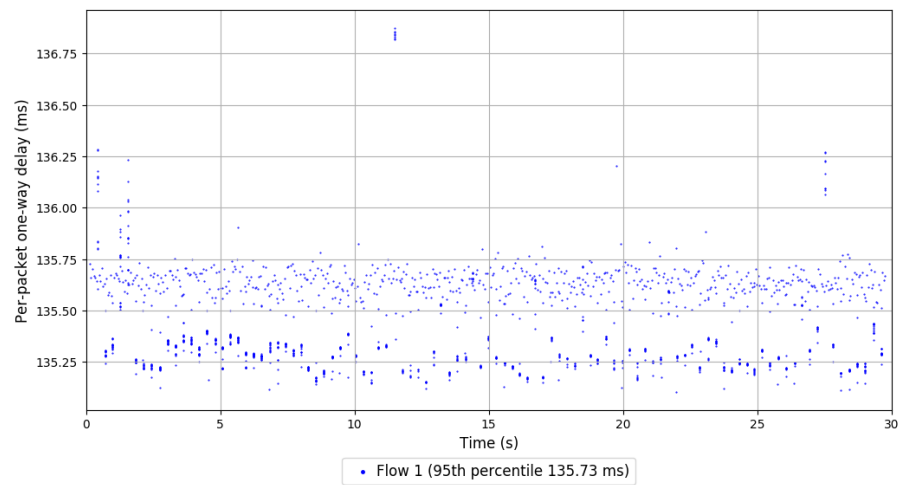
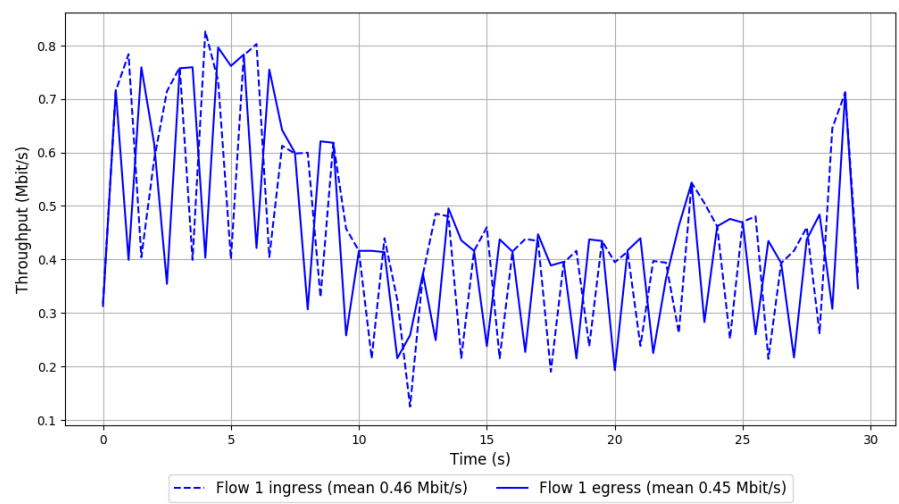
-- Flow 1:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 135.732 ms

Loss rate: 1.36%

Run 10: Report of Sprout — Data Link



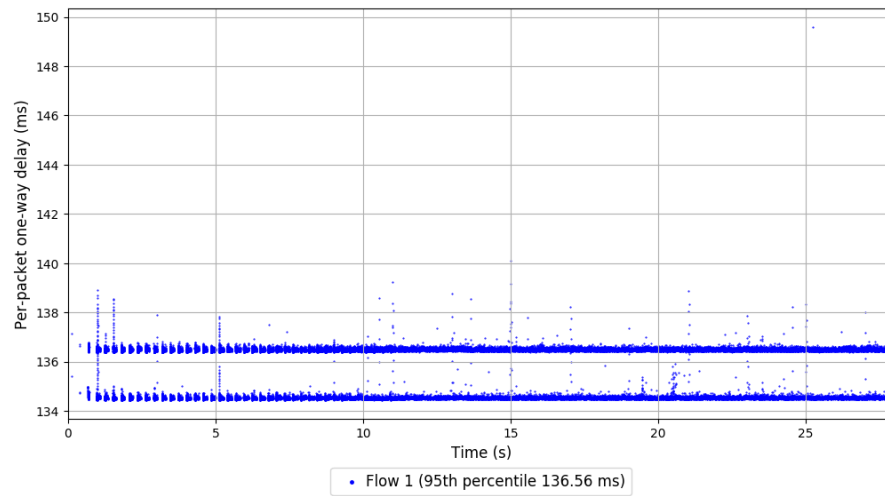
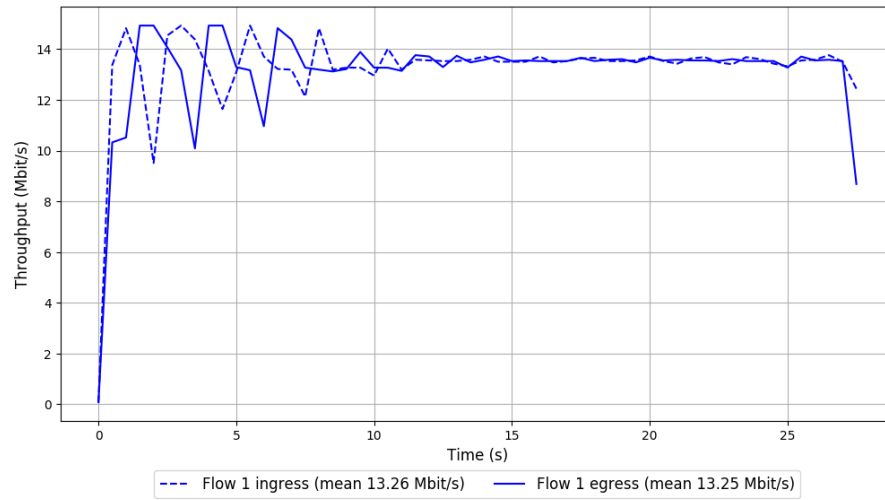
```
Run 1: Statistics of TaoVA-100x

Start at: 2017-09-21 19:41:46
End at: 2017-09-21 19:42:16

# Below is generated by plot.py at 2017-09-21 23:45:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.25 Mbit/s
95th percentile per-packet one-way delay: 136.561 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 13.25 Mbit/s
95th percentile per-packet one-way delay: 136.561 ms
Loss rate: 1.00%
```



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

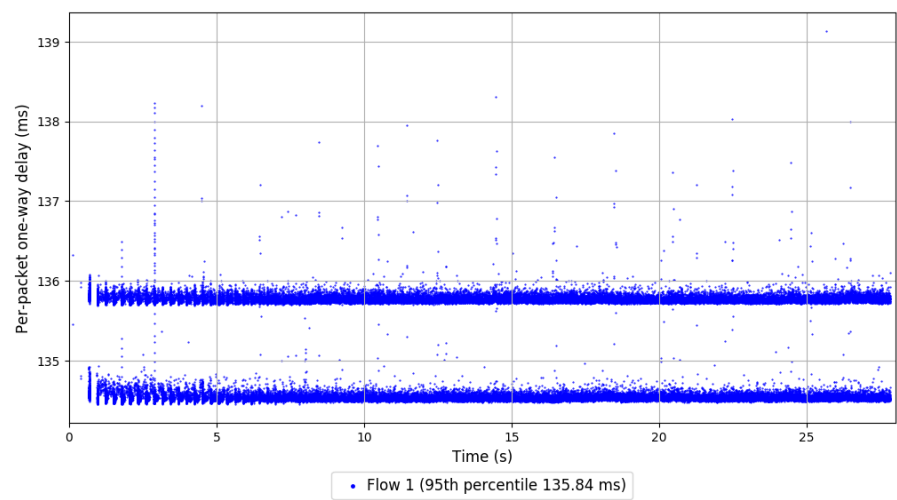
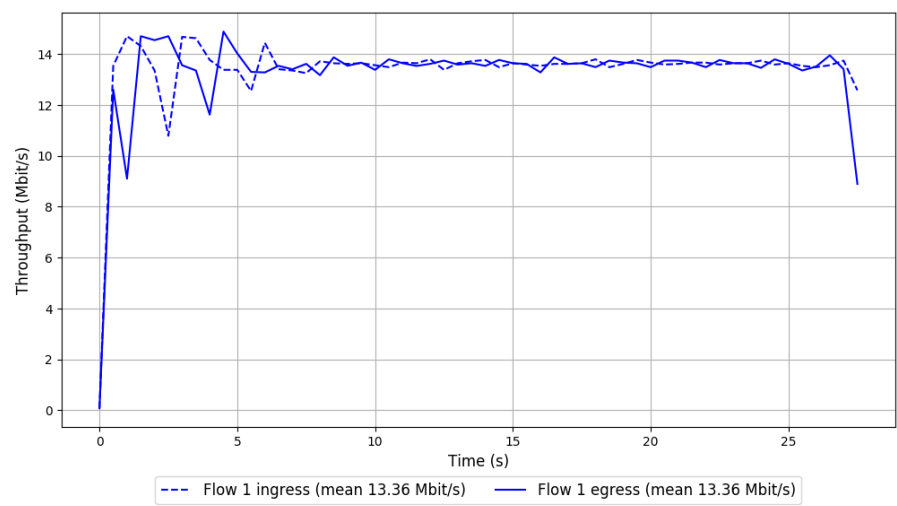


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-09-21 19:52:57
End at: 2017-09-21 19:53:27

# Below is generated by plot.py at 2017-09-21 23:45:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.36 Mbit/s
95th percentile per-packet one-way delay: 135.841 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 13.36 Mbit/s
95th percentile per-packet one-way delay: 135.841 ms
Loss rate: 1.00%
```

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

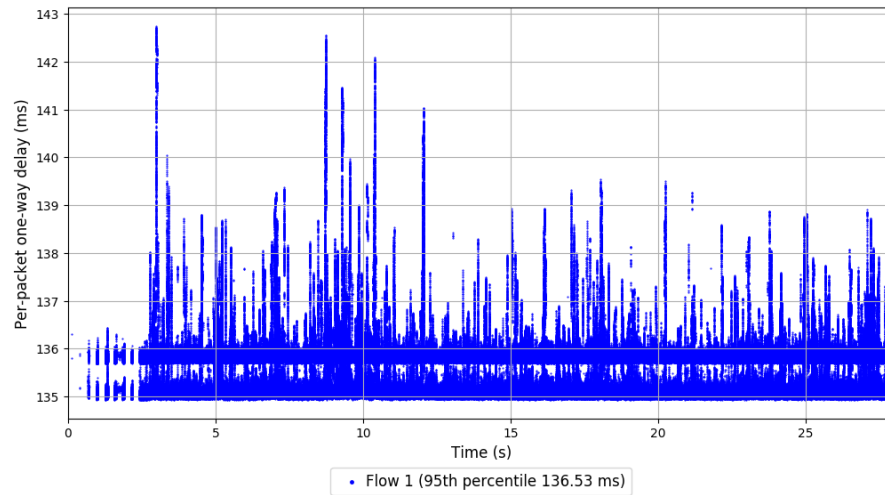
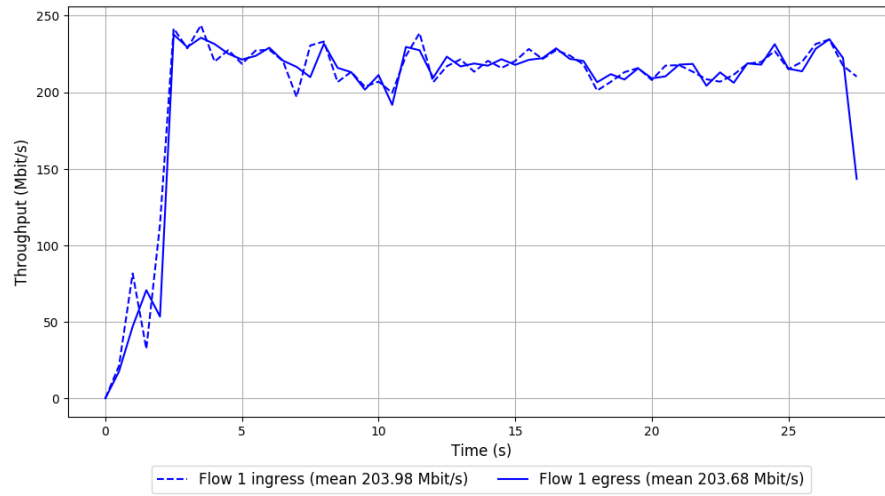


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-09-21 20:04:10
End at: 2017-09-21 20:04:40

# Below is generated by plot.py at 2017-09-21 23:45:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 203.68 Mbit/s
95th percentile per-packet one-way delay: 136.535 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 203.68 Mbit/s
95th percentile per-packet one-way delay: 136.535 ms
Loss rate: 1.12%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-09-21 20:15:36

End at: 2017-09-21 20:16:06

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.28 Mbit/s

95th percentile per-packet one-way delay: 136.042 ms

Loss rate: 0.98%

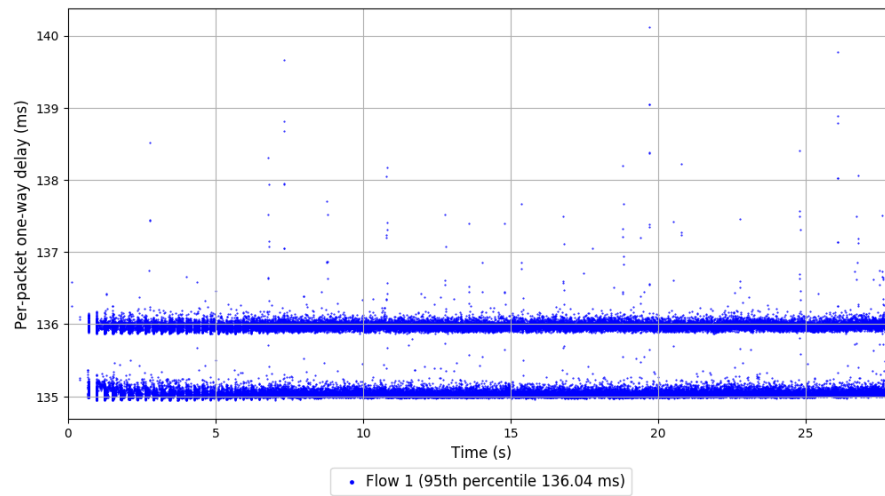
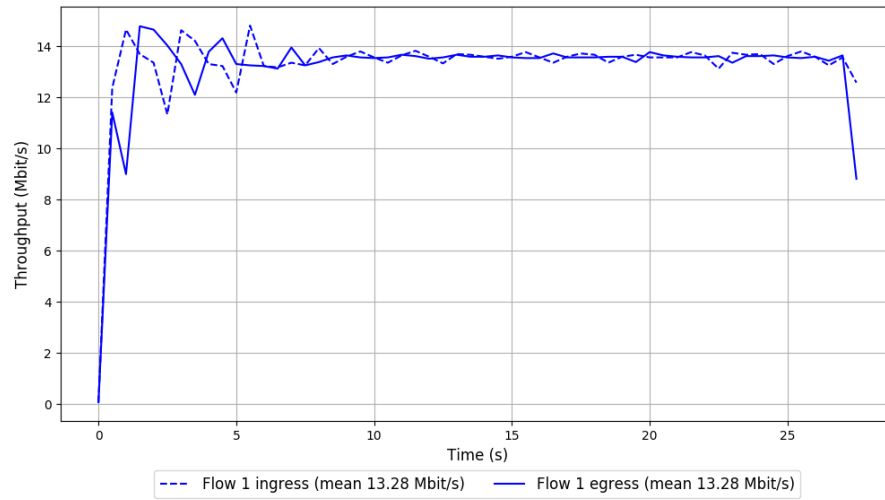
-- Flow 1:

Average throughput: 13.28 Mbit/s

95th percentile per-packet one-way delay: 136.042 ms

Loss rate: 0.98%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-09-21 20:26:32

End at: 2017-09-21 20:27:02

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 203.06 Mbit/s

95th percentile per-packet one-way delay: 136.898 ms

Loss rate: 0.82%

-- Flow 1:

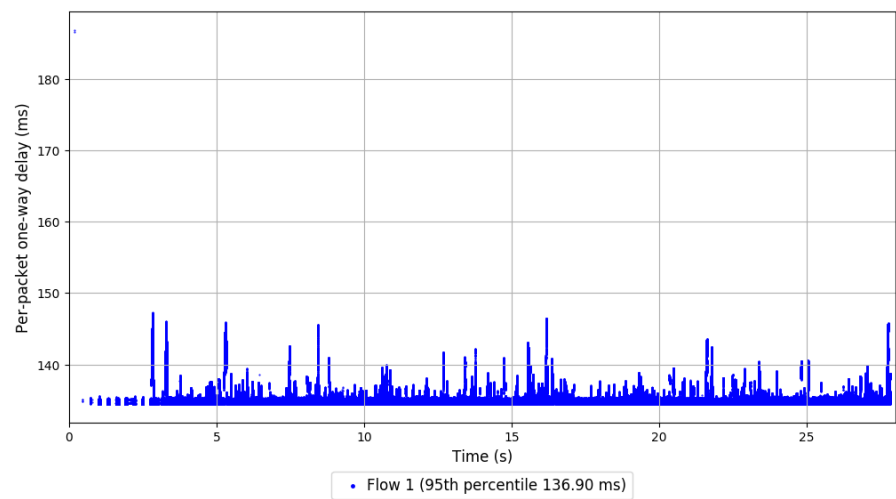
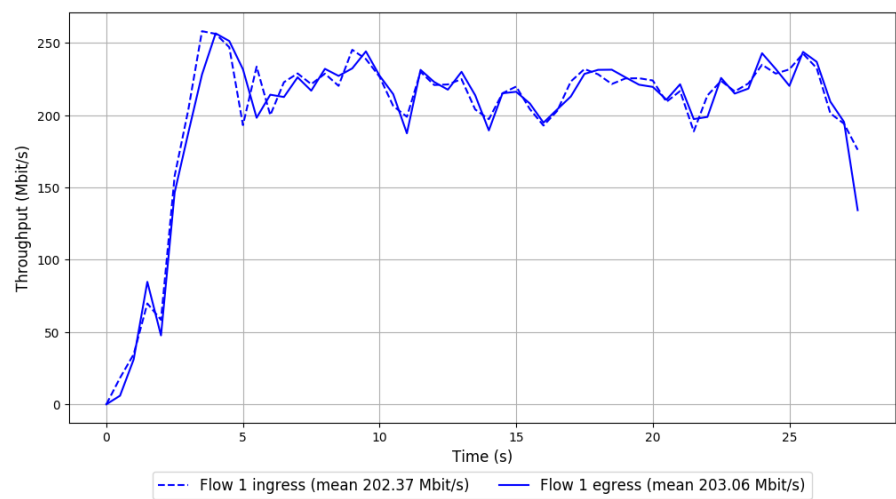
Average throughput: 203.06 Mbit/s

95th percentile per-packet one-way delay: 136.898 ms

Loss rate: 0.82%



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



Run 6: Statistics of TaoVA-100x

Start at: 2017-09-21 20:37:45

End at: 2017-09-21 20:38:15

# Below is generated by plot.py at 2017-09-21 23:45:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.30 Mbit/s

95th percentile per-packet one-way delay: 136.913 ms

Loss rate: 1.00%

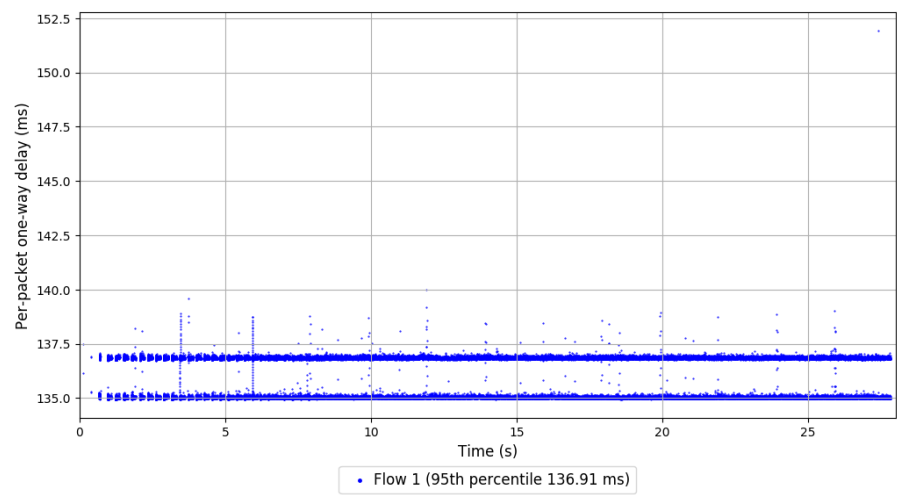
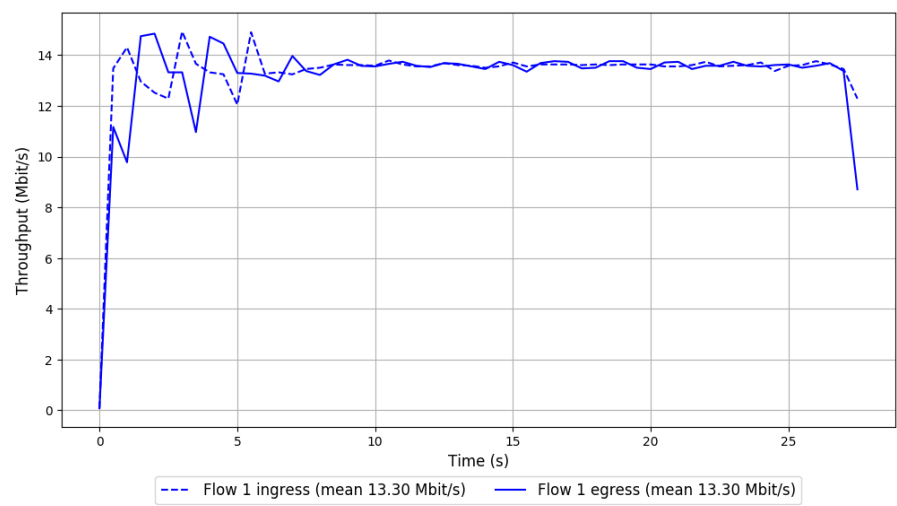
-- Flow 1:

Average throughput: 13.30 Mbit/s

95th percentile per-packet one-way delay: 136.913 ms

Loss rate: 1.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-09-21 20:49:00

End at: 2017-09-21 20:49:30

# Below is generated by plot.py at 2017-09-21 23:45:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 203.24 Mbit/s

95th percentile per-packet one-way delay: 136.542 ms

Loss rate: 1.08%

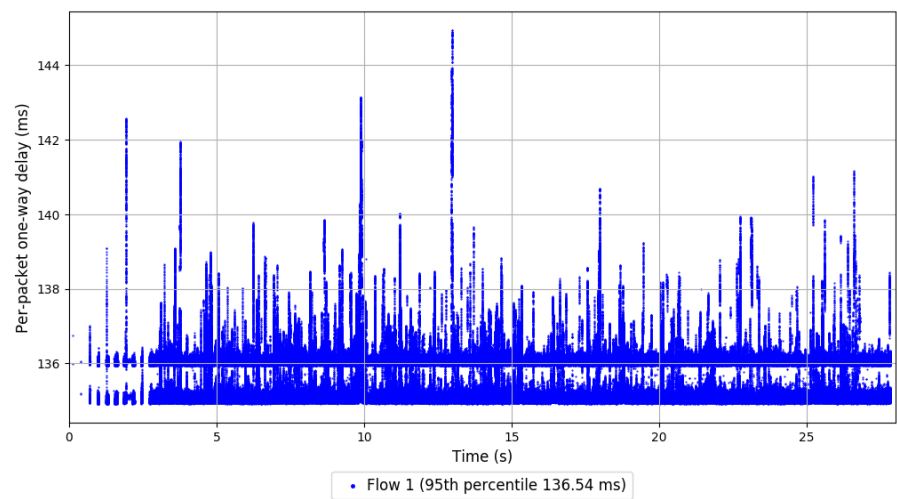
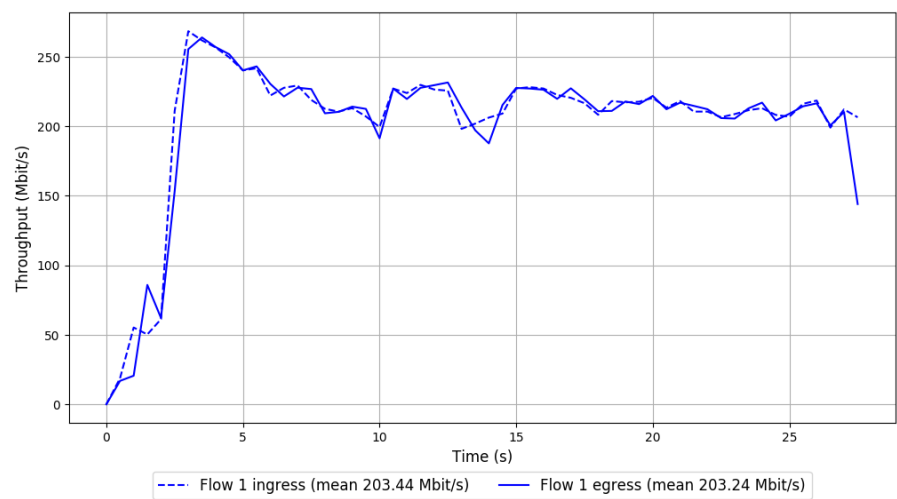
-- Flow 1:

Average throughput: 203.24 Mbit/s

95th percentile per-packet one-way delay: 136.542 ms

Loss rate: 1.08%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-09-21 21:00:54

End at: 2017-09-21 21:01:24

# Below is generated by plot.py at 2017-09-21 23:45:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.35 Mbit/s

95th percentile per-packet one-way delay: 135.318 ms

Loss rate: 1.00%

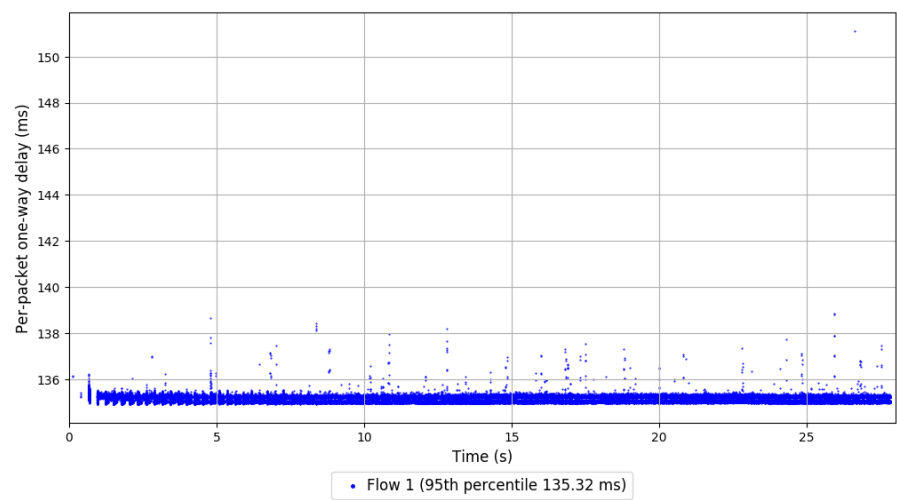
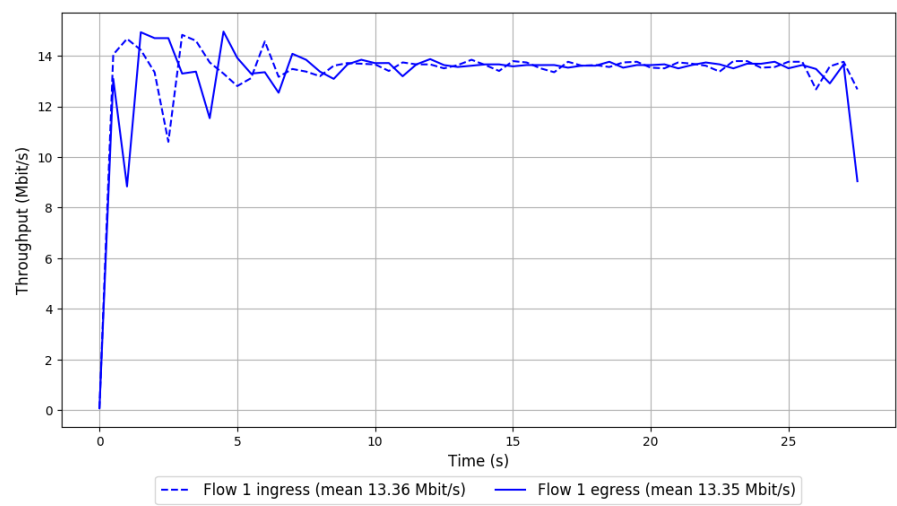
-- Flow 1:

Average throughput: 13.35 Mbit/s

95th percentile per-packet one-way delay: 135.318 ms

Loss rate: 1.00%

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



Run 9: Statistics of TaoVA-100x

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

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

# Below is generated by plot.py at 2017-09-21 23:45:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.26 Mbit/s

95th percentile per-packet one-way delay: 136.645 ms

Loss rate: 1.00%

-- Flow 1:

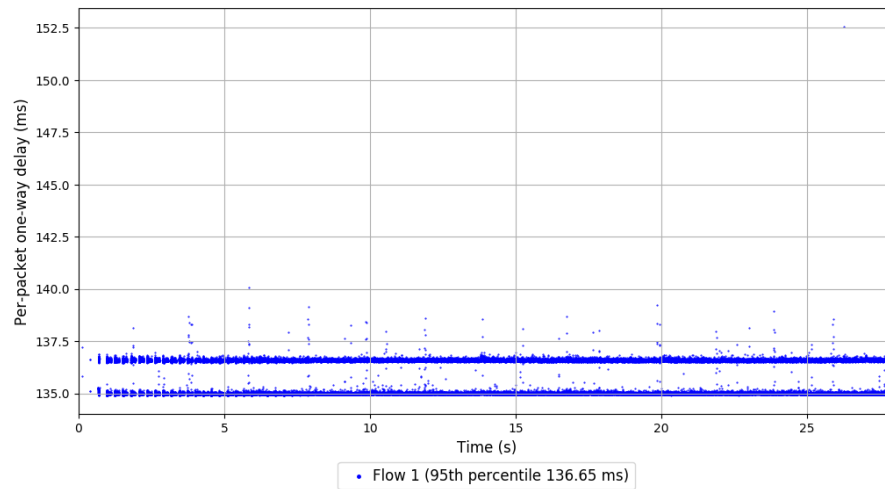
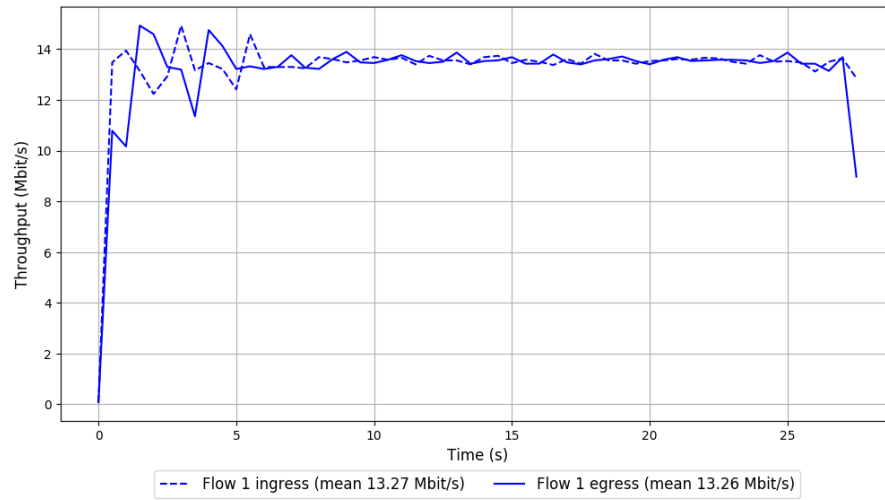
Average throughput: 13.26 Mbit/s

95th percentile per-packet one-way delay: 136.645 ms

Loss rate: 1.00%



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

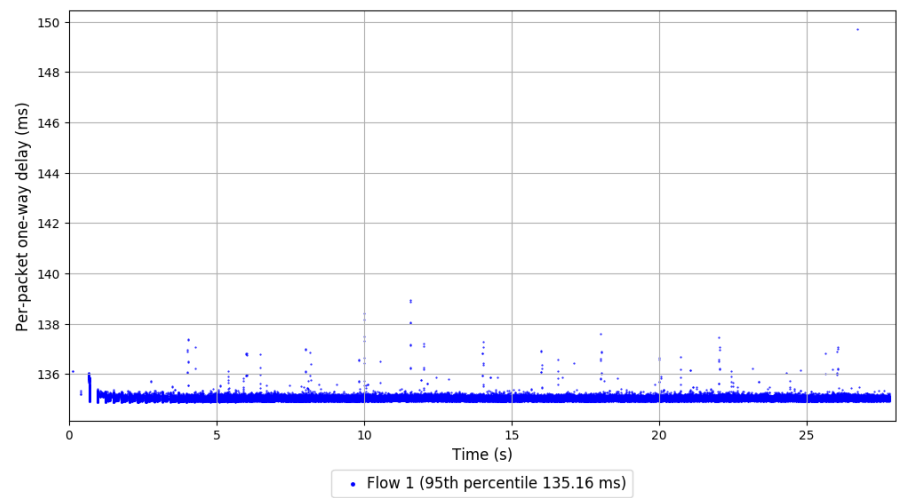
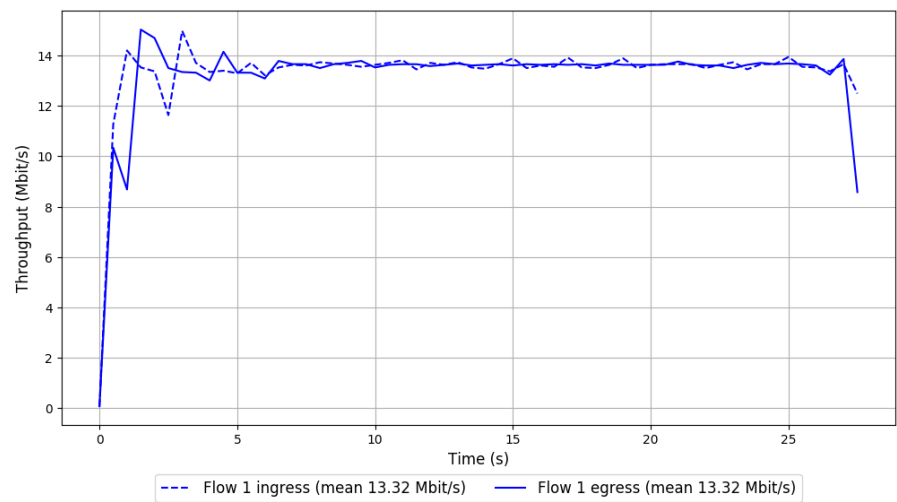


```
Run 10: Statistics of TaoVA-100x

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 23:45:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.32 Mbit/s
95th percentile per-packet one-way delay: 135.162 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 13.32 Mbit/s
95th percentile per-packet one-way delay: 135.162 ms
Loss rate: 1.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-09-21 19:41:00

End at: 2017-09-21 19:41:30

# Below is generated by plot.py at 2017-09-21 23:45:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 35.86 Mbit/s

95th percentile per-packet one-way delay: 137.617 ms

Loss rate: 0.21%

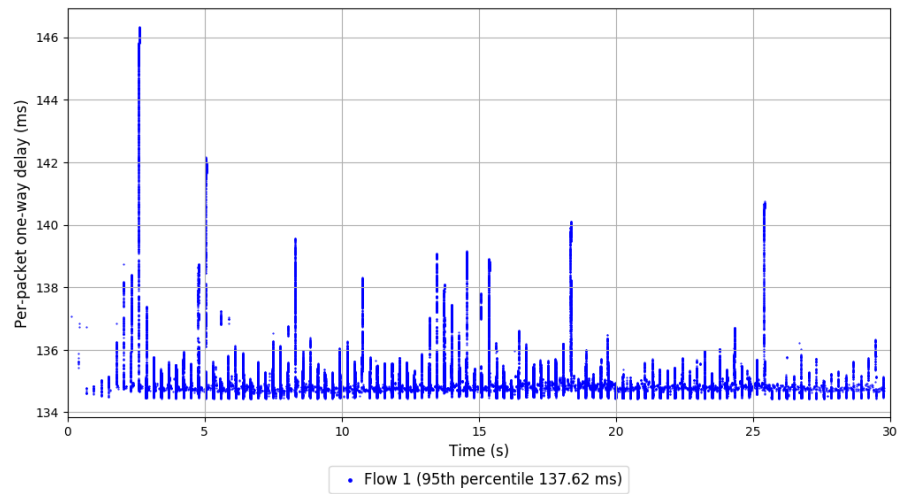
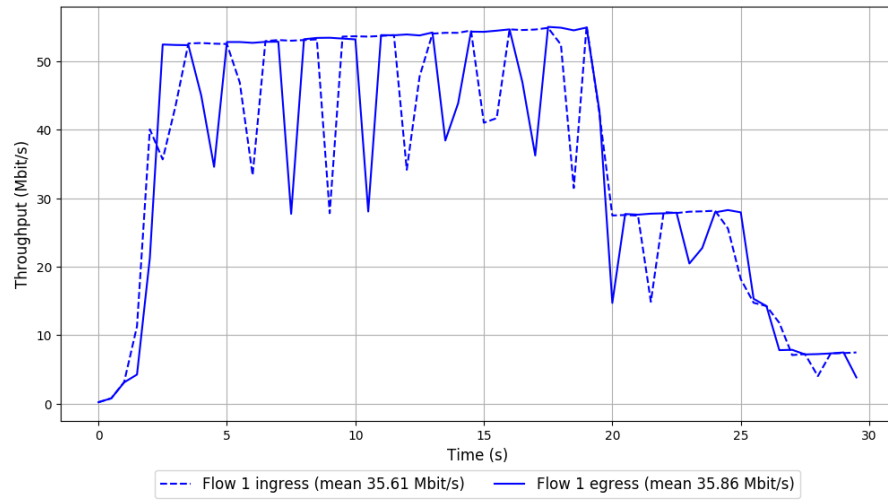
-- Flow 1:

Average throughput: 35.86 Mbit/s

95th percentile per-packet one-way delay: 137.617 ms

Loss rate: 0.21%

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



Run 2: Statistics of TCP Vegas

Start at: 2017-09-21 19:52:11

End at: 2017-09-21 19:52:41

# Below is generated by plot.py at 2017-09-21 23:45:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 31.44 Mbit/s

95th percentile per-packet one-way delay: 137.721 ms

Loss rate: 0.81%

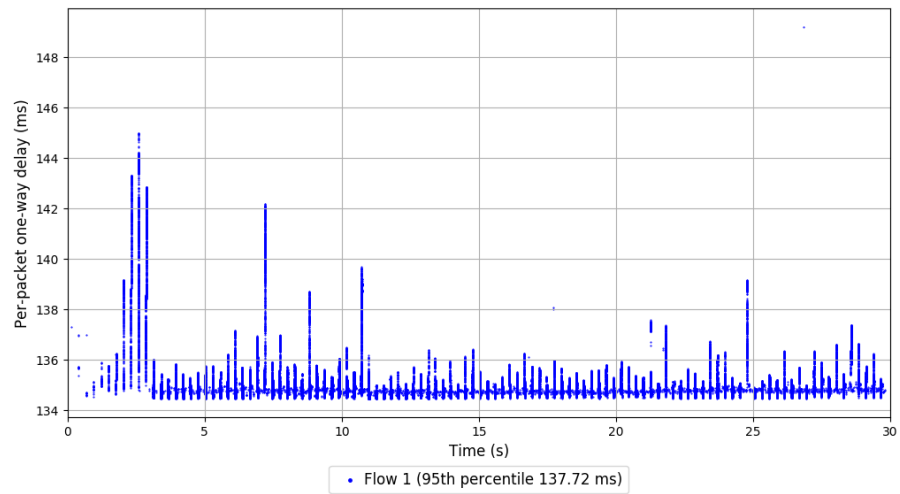
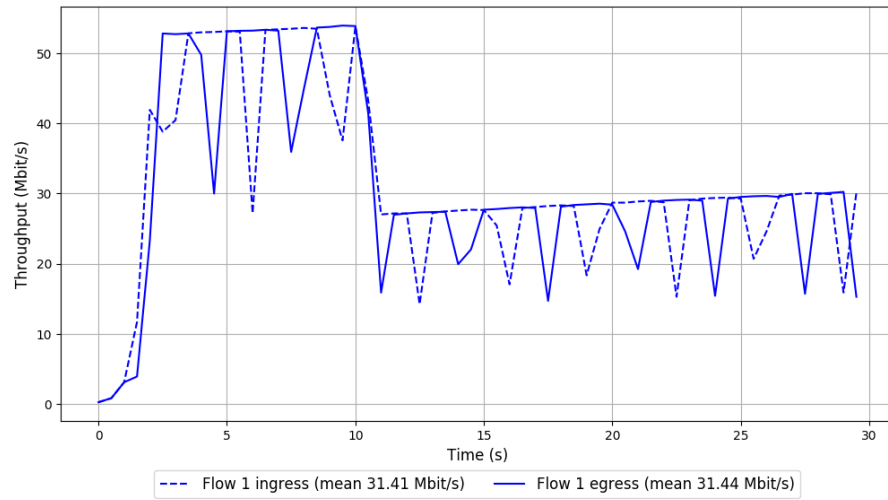
-- Flow 1:

Average throughput: 31.44 Mbit/s

95th percentile per-packet one-way delay: 137.721 ms

Loss rate: 0.81%

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



Run 3: Statistics of TCP Vegas

Start at: 2017-09-21 20:03:23

End at: 2017-09-21 20:03:53

# Below is generated by plot.py at 2017-09-21 23:45:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 56.22 Mbit/s

95th percentile per-packet one-way delay: 138.107 ms

Loss rate: 1.00%

-- Flow 1:

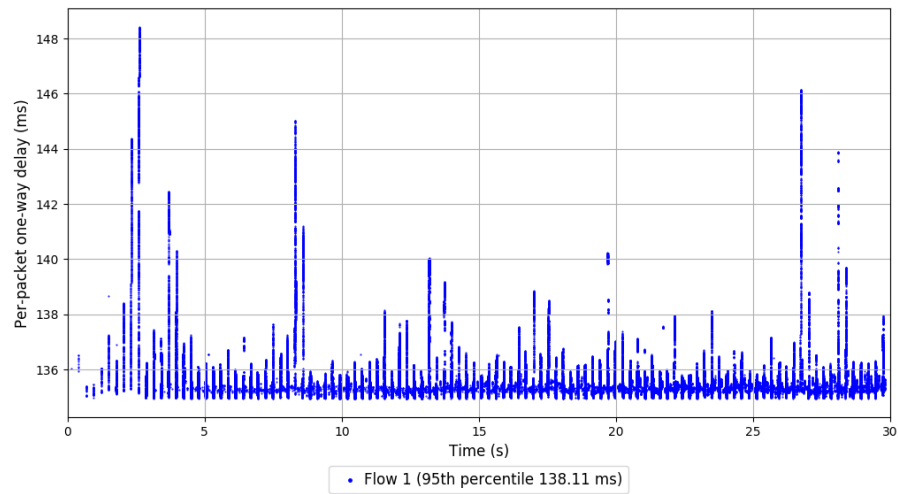
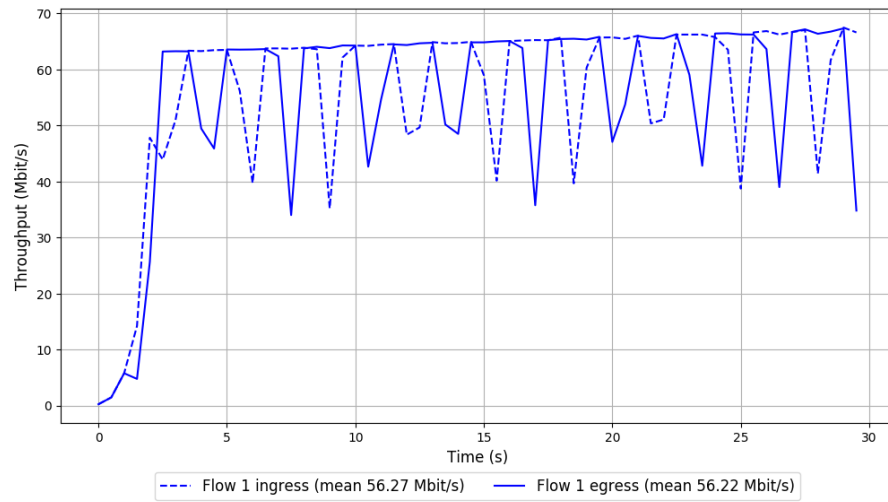
Average throughput: 56.22 Mbit/s

95th percentile per-packet one-way delay: 138.107 ms

Loss rate: 1.00%



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



Run 4: Statistics of TCP Vegas

Start at: 2017-09-21 20:14:52

End at: 2017-09-21 20:15:22

# Below is generated by plot.py at 2017-09-21 23:45:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 17.63 Mbit/s

95th percentile per-packet one-way delay: 138.115 ms

Loss rate: 0.15%

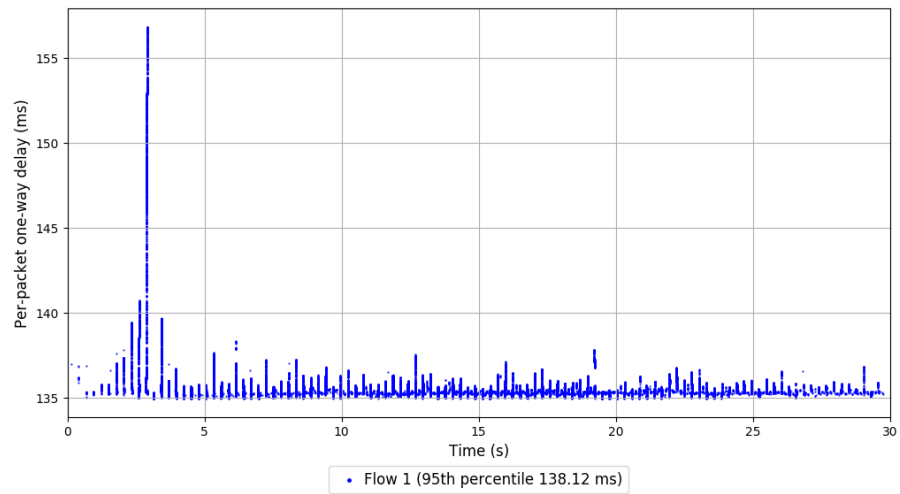
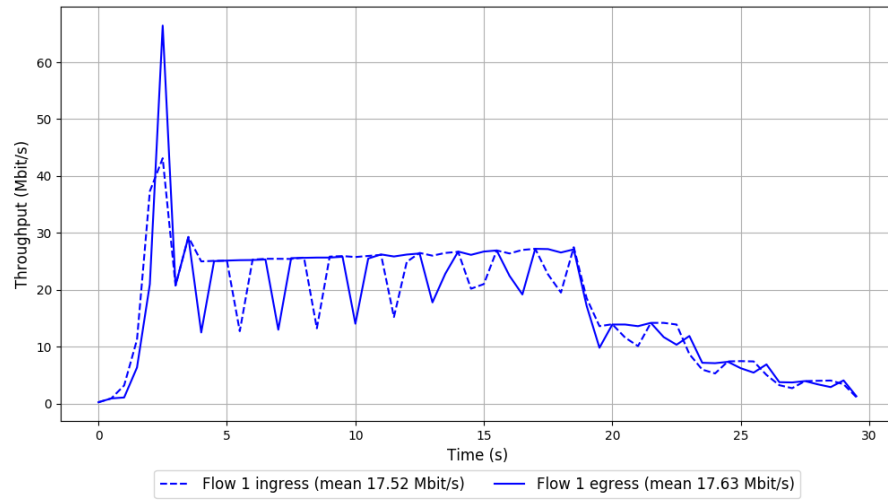
-- Flow 1:

Average throughput: 17.63 Mbit/s

95th percentile per-packet one-way delay: 138.115 ms

Loss rate: 0.15%

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



Run 5: Statistics of TCP Vegas

Start at: 2017-09-21 20:25:46

End at: 2017-09-21 20:26:16

# Below is generated by plot.py at 2017-09-21 23:45:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 44.31 Mbit/s

95th percentile per-packet one-way delay: 143.246 ms

Loss rate: 0.70%

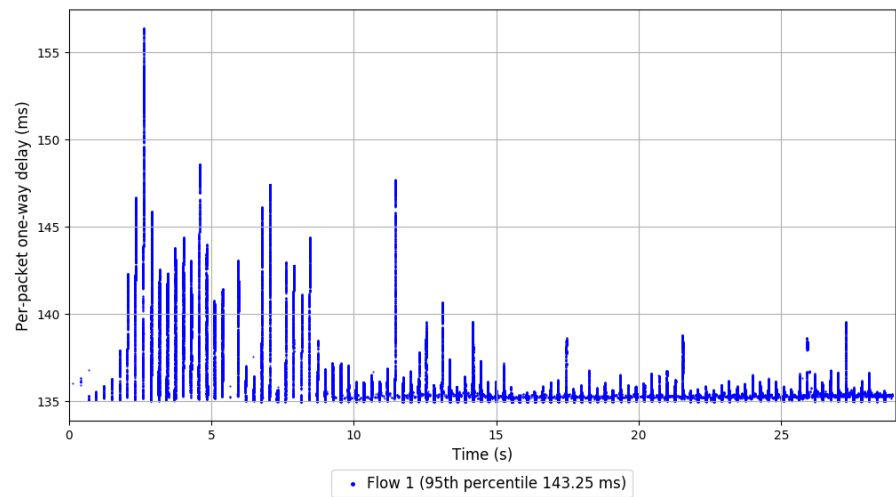
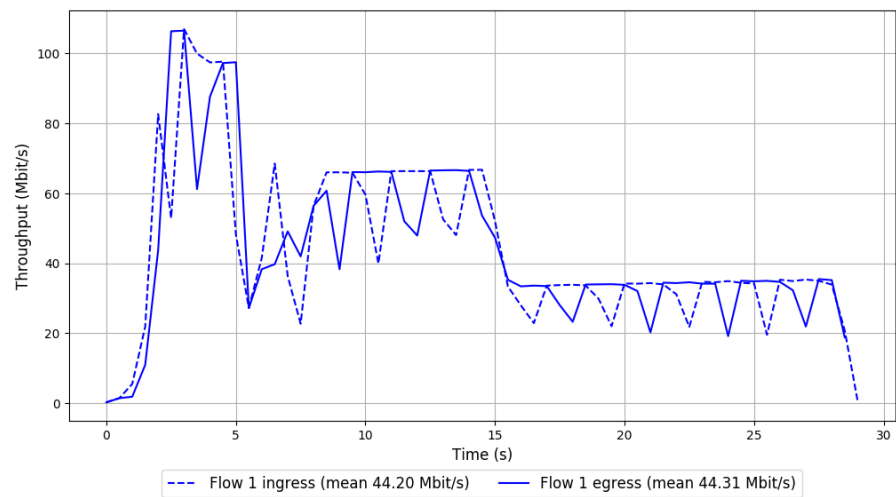
-- Flow 1:

Average throughput: 44.31 Mbit/s

95th percentile per-packet one-way delay: 143.246 ms

Loss rate: 0.70%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

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

End at: 2017-09-21 20:37:32

# Below is generated by plot.py at 2017-09-21 23:45:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 3.11 Mbit/s

95th percentile per-packet one-way delay: 136.143 ms

Loss rate: 0.87%

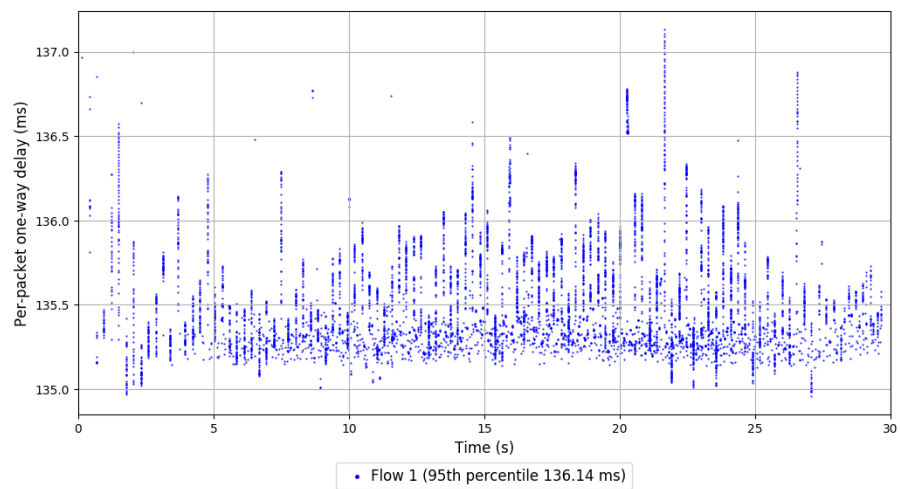
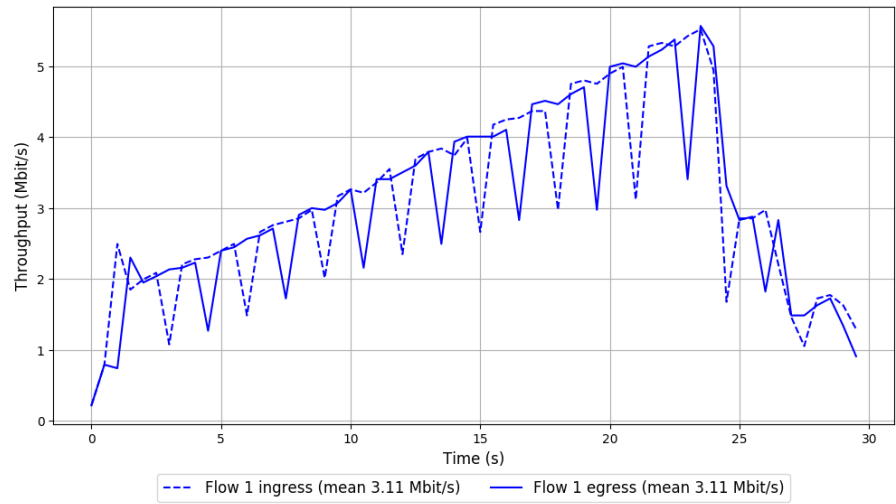
-- Flow 1:

Average throughput: 3.11 Mbit/s

95th percentile per-packet one-way delay: 136.143 ms

Loss rate: 0.87%

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



Run 7: Statistics of TCP Vegas

Start at: 2017-09-21 20:48:18

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

# Below is generated by plot.py at 2017-09-21 23:45:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 135.917 ms

Loss rate: 1.39%

-- Flow 1:

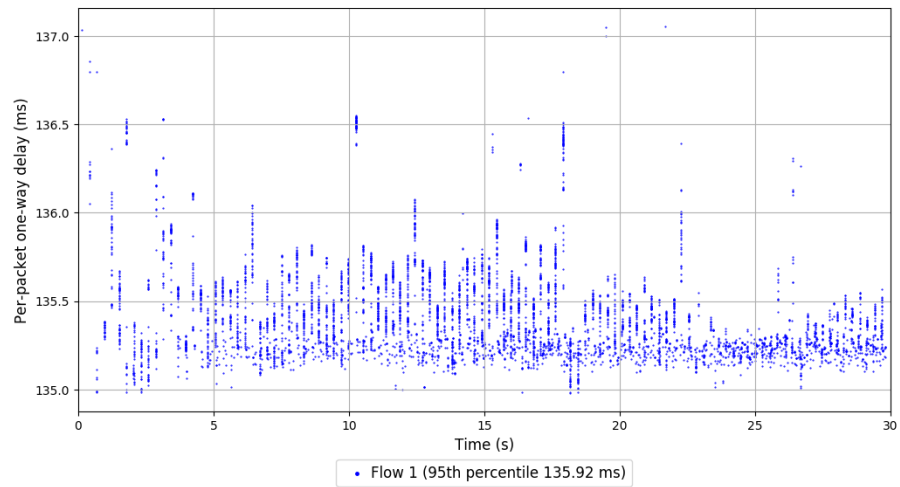
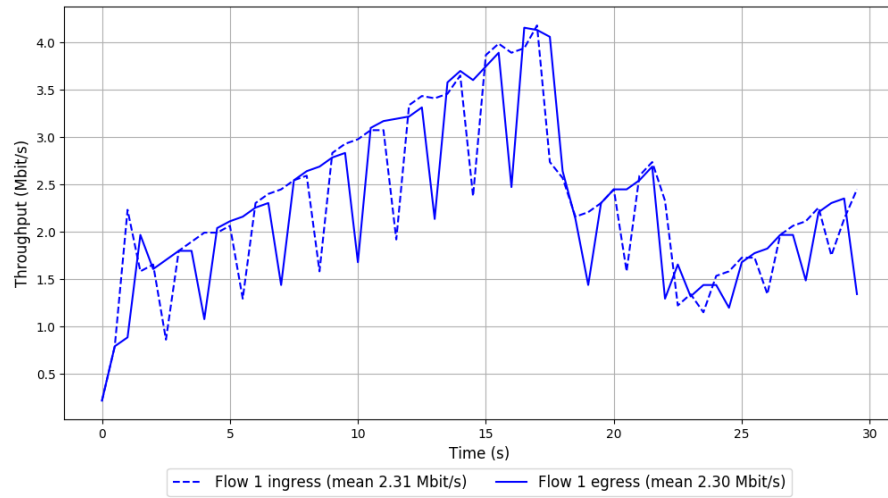
Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 135.917 ms

Loss rate: 1.39%



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



Run 8: Statistics of TCP Vegas

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

End at: 2017-09-21 21:00:39

# Below is generated by plot.py at 2017-09-21 23:45:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 14.33 Mbit/s

95th percentile per-packet one-way delay: 146.416 ms

Loss rate: 0.51%

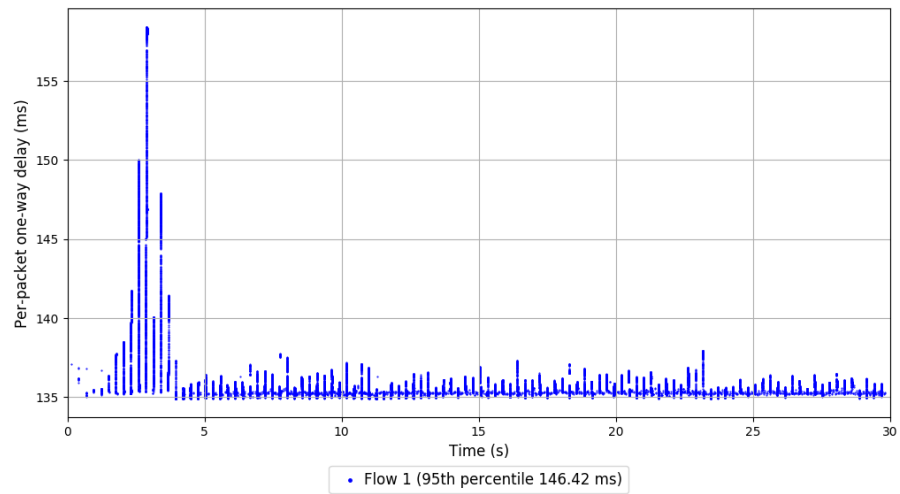
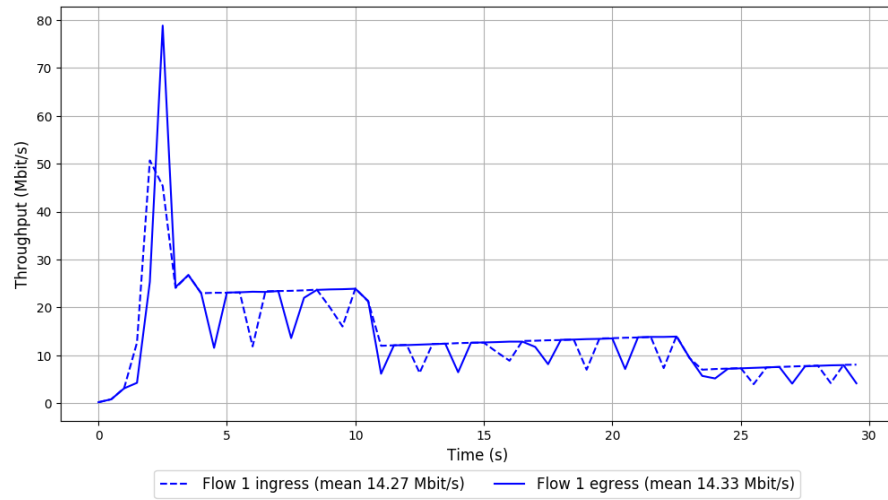
-- Flow 1:

Average throughput: 14.33 Mbit/s

95th percentile per-packet one-way delay: 146.416 ms

Loss rate: 0.51%

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



Run 9: Statistics of TCP Vegas

Start at: 2017-09-21 21:11:35

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

# Below is generated by plot.py at 2017-09-21 23:45:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 31.83 Mbit/s

95th percentile per-packet one-way delay: 140.869 ms

Loss rate: 0.71%

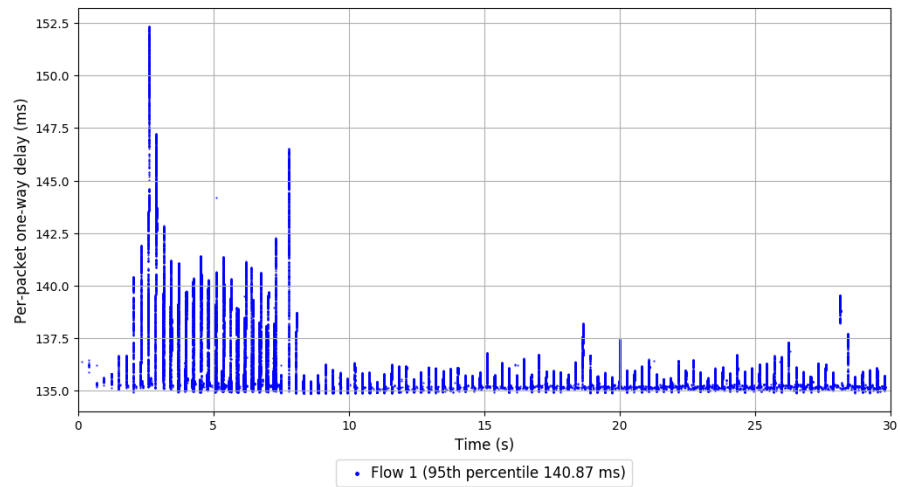
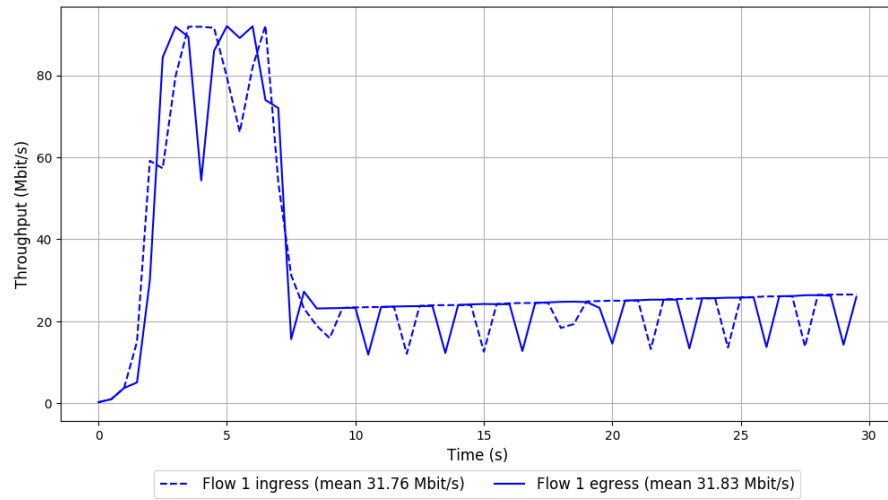
-- Flow 1:

Average throughput: 31.83 Mbit/s

95th percentile per-packet one-way delay: 140.869 ms

Loss rate: 0.71%

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



Run 10: Statistics of TCP Vegas

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

End at: 2017-09-21 21:23:32

# Below is generated by plot.py at 2017-09-21 23:45:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 31.59 Mbit/s

95th percentile per-packet one-way delay: 140.995 ms

Loss rate: 0.97%

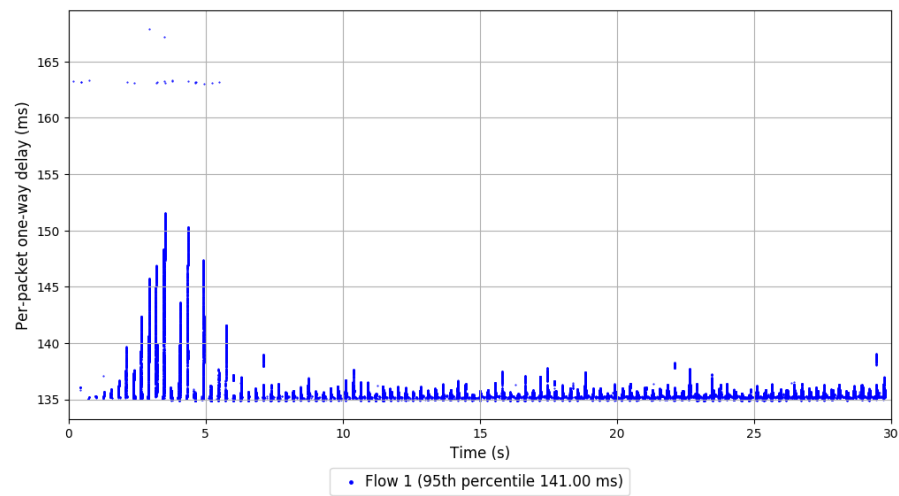
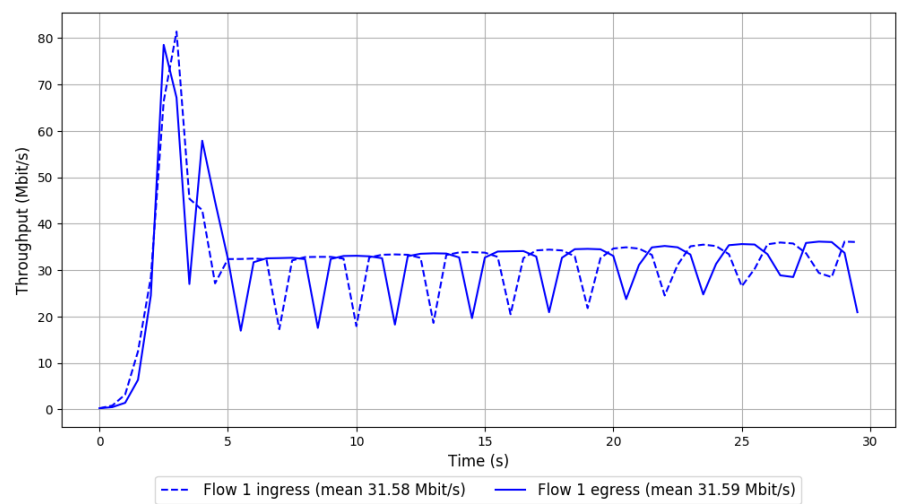
-- Flow 1:

Average throughput: 31.59 Mbit/s

95th percentile per-packet one-way delay: 140.995 ms

Loss rate: 0.97%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-09-21 19:47:14

End at: 2017-09-21 19:47:44

# Below is generated by plot.py at 2017-09-21 23:45:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.17 Mbit/s

95th percentile per-packet one-way delay: 251.356 ms

Loss rate: 2.38%

-- Flow 1:

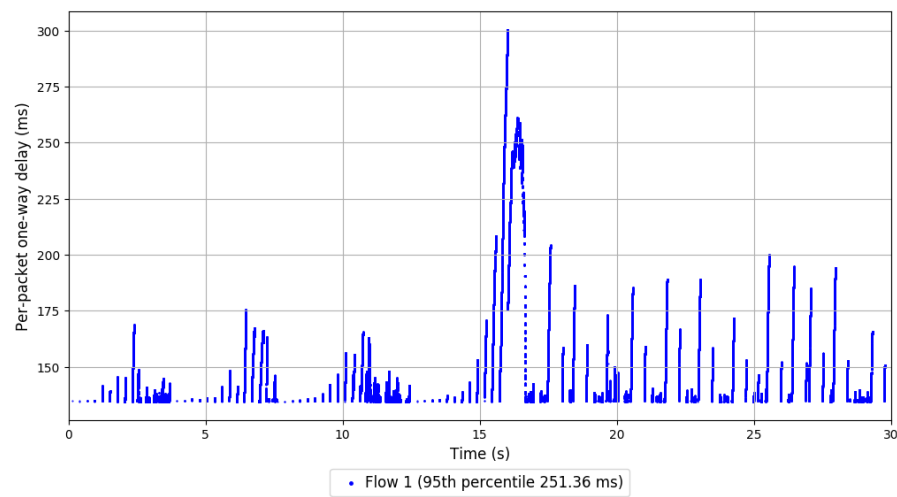
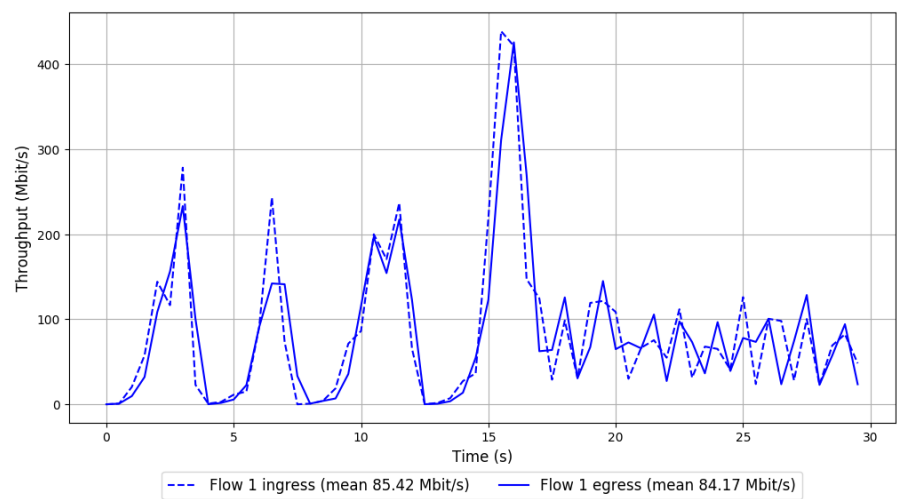
Average throughput: 84.17 Mbit/s

95th percentile per-packet one-way delay: 251.356 ms

Loss rate: 2.38%



Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-09-21 19:58:22

End at: 2017-09-21 19:58:52

# Below is generated by plot.py at 2017-09-21 23:45:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 110.57 Mbit/s

95th percentile per-packet one-way delay: 197.135 ms

Loss rate: 4.02%

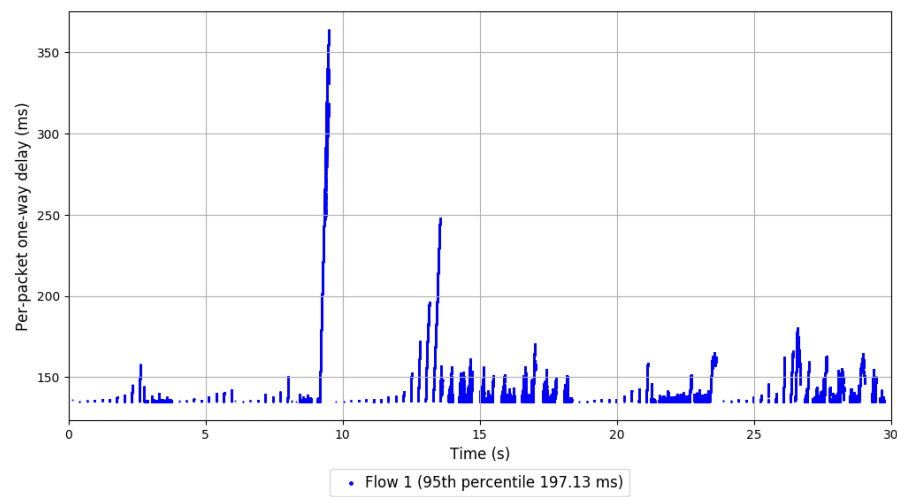
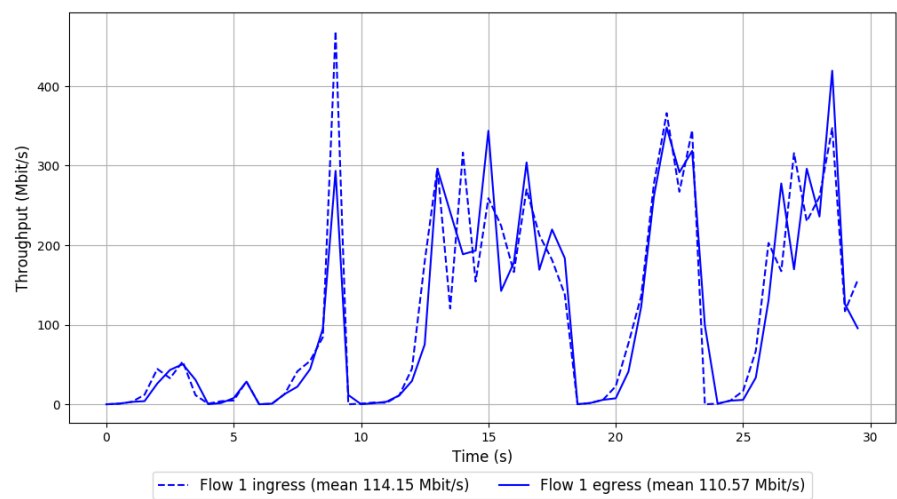
-- Flow 1:

Average throughput: 110.57 Mbit/s

95th percentile per-packet one-way delay: 197.135 ms

Loss rate: 4.02%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

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

End at: 2017-09-21 20:10:23

# Below is generated by plot.py at 2017-09-21 23:45:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.30 Mbit/s

95th percentile per-packet one-way delay: 320.866 ms

Loss rate: 8.63%

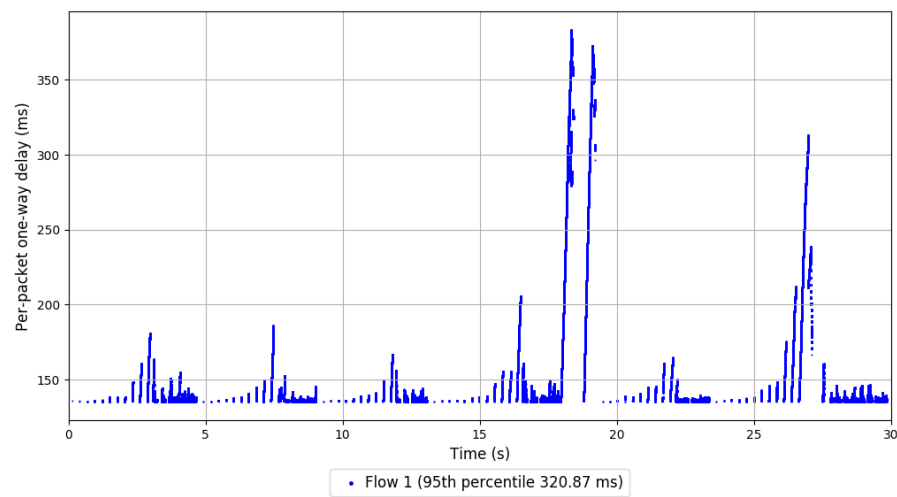
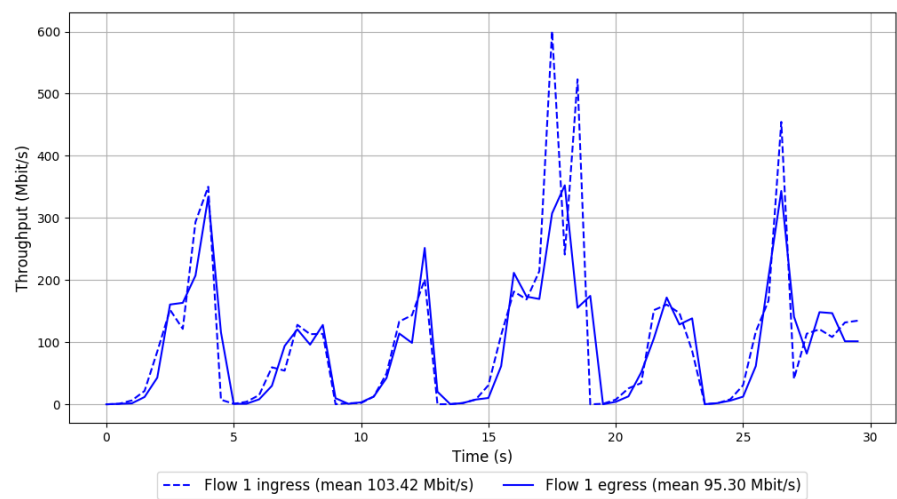
-- Flow 1:

Average throughput: 95.30 Mbit/s

95th percentile per-packet one-way delay: 320.866 ms

Loss rate: 8.63%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

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

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

# Below is generated by plot.py at 2017-09-21 23:45:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 158.57 Mbit/s

95th percentile per-packet one-way delay: 183.603 ms

Loss rate: 1.74%

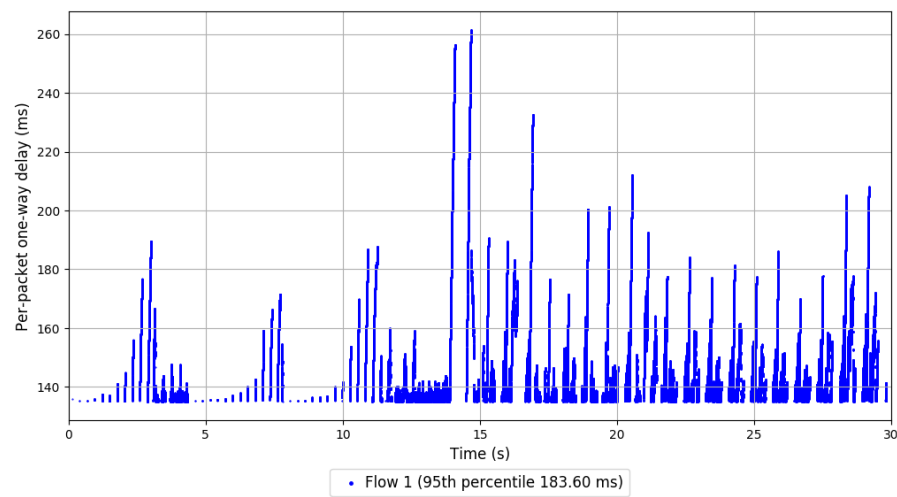
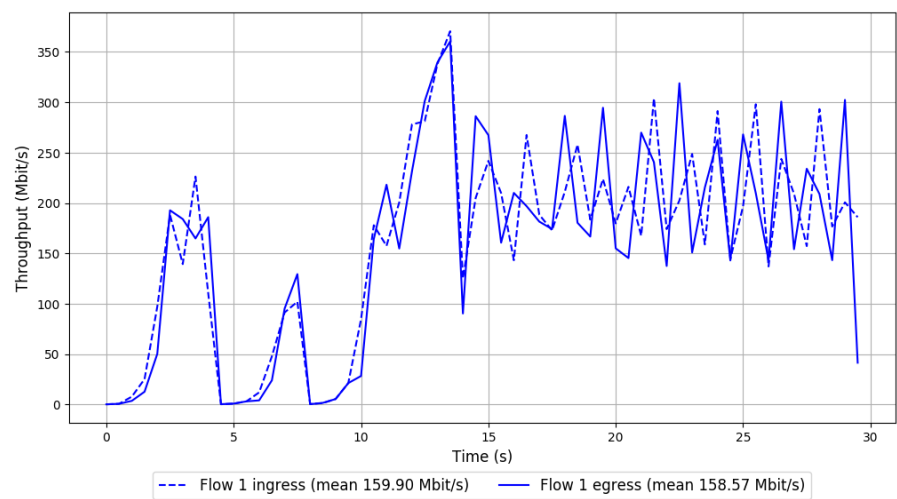
-- Flow 1:

Average throughput: 158.57 Mbit/s

95th percentile per-packet one-way delay: 183.603 ms

Loss rate: 1.74%

Run 4: Report of Verus — Data Link



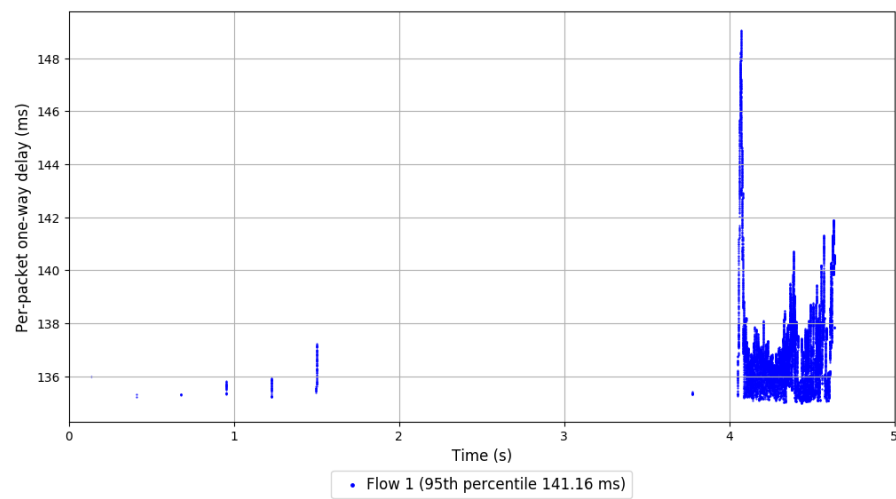
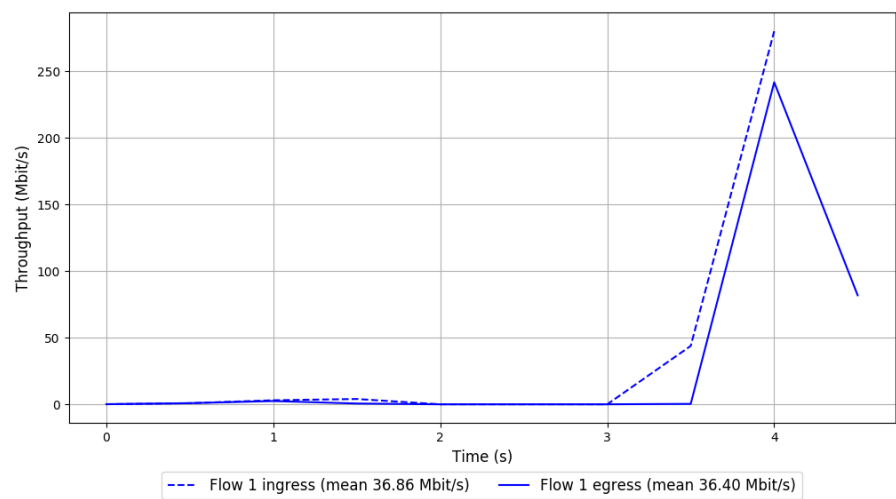
Run 5: Statistics of Verus

Start at: 2017-09-21 20:32:16

End at: 2017-09-21 20:32:46



Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

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

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

# Below is generated by plot.py at 2017-09-21 23:45:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 167.04 Mbit/s

95th percentile per-packet one-way delay: 197.071 ms

Loss rate: 2.15%

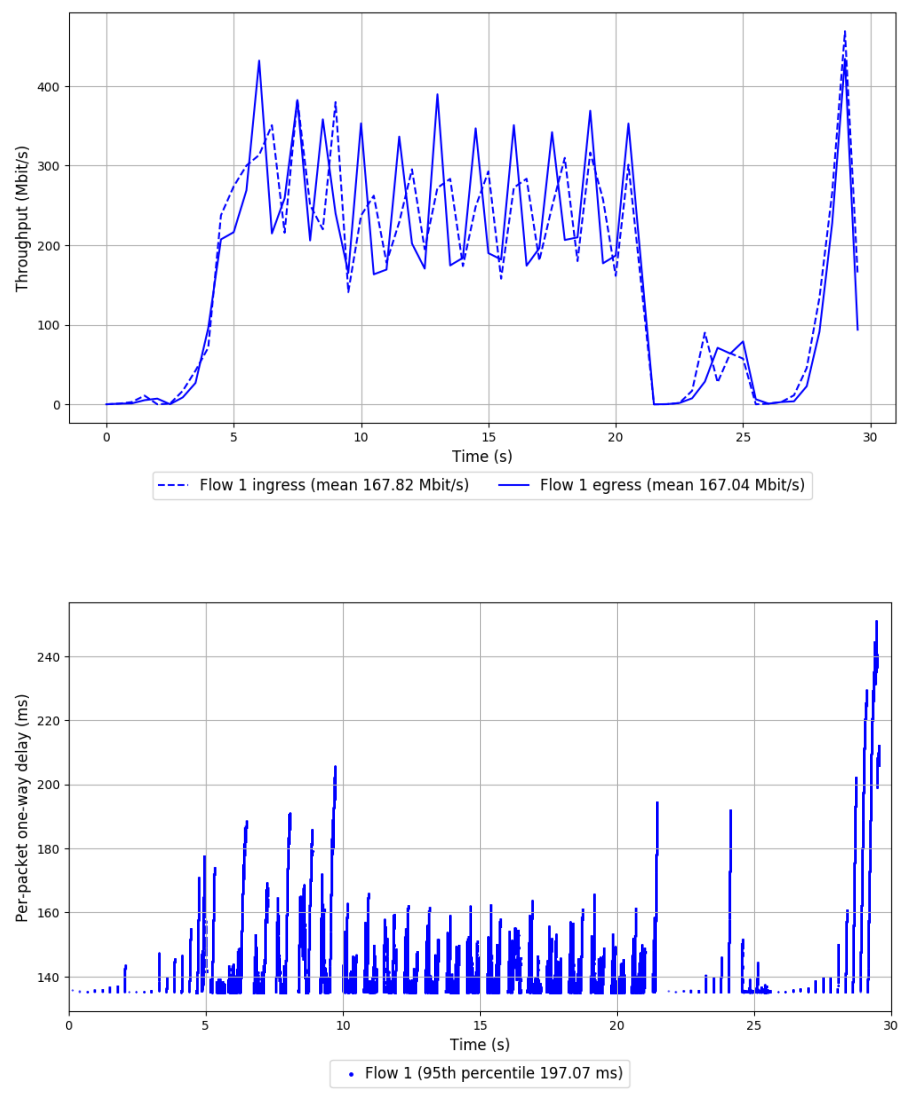
-- Flow 1:

Average throughput: 167.04 Mbit/s

95th percentile per-packet one-way delay: 197.071 ms

Loss rate: 2.15%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-09-21 20:54:49

End at: 2017-09-21 20:55:19

# Below is generated by plot.py at 2017-09-21 23:45:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 184.06 Mbit/s

95th percentile per-packet one-way delay: 183.376 ms

Loss rate: 1.47%

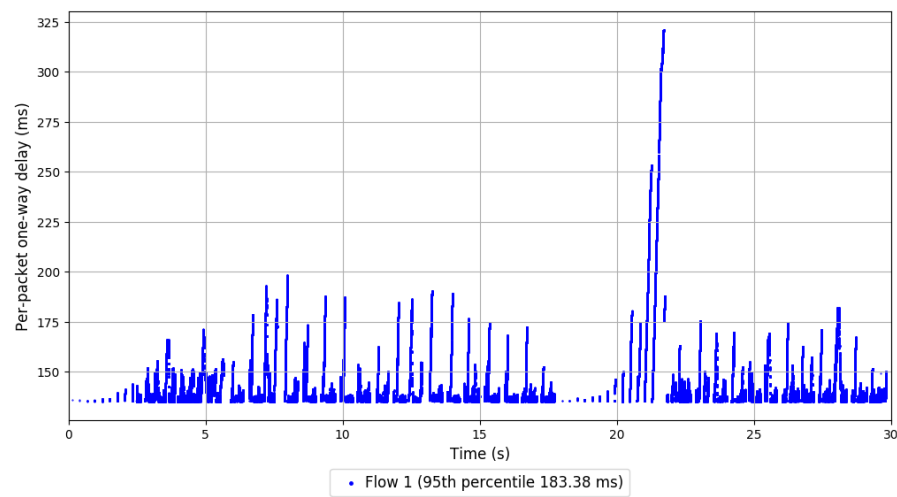
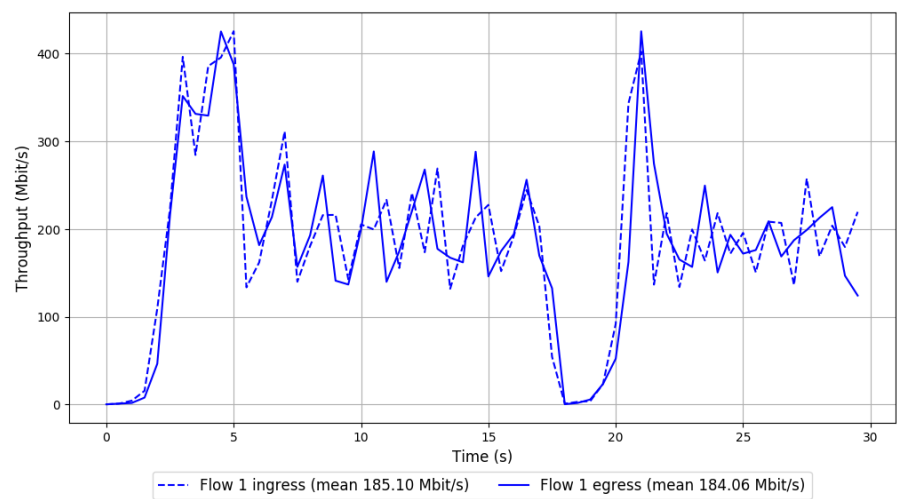
-- Flow 1:

Average throughput: 184.06 Mbit/s

95th percentile per-packet one-way delay: 183.376 ms

Loss rate: 1.47%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-09-21 21:06:26

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

# Below is generated by plot.py at 2017-09-21 23:45:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 152.30 Mbit/s

95th percentile per-packet one-way delay: 180.944 ms

Loss rate: 1.64%

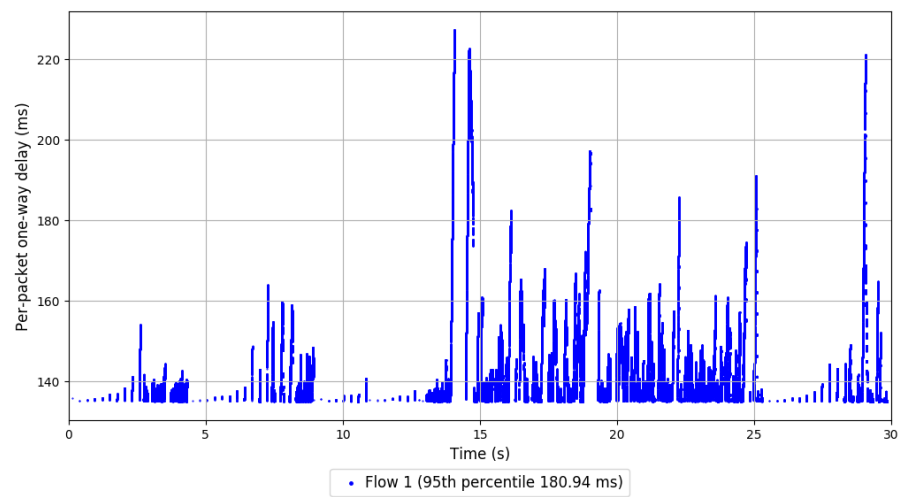
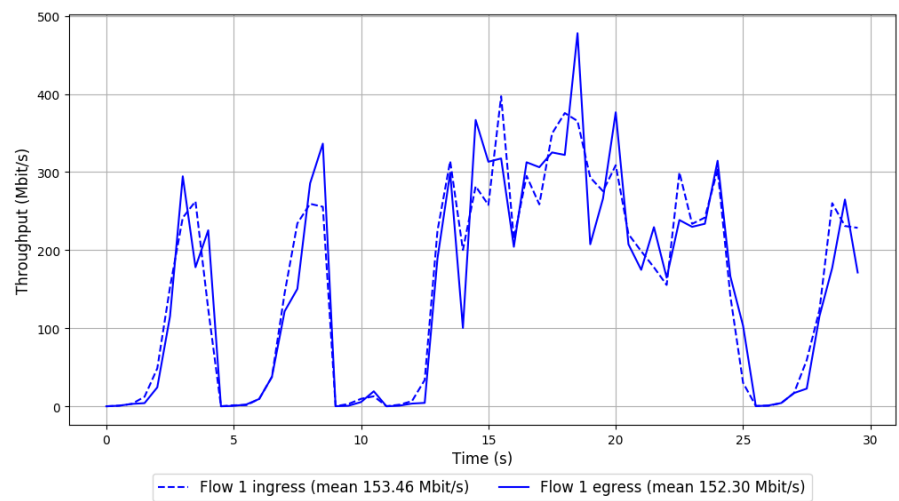
-- Flow 1:

Average throughput: 152.30 Mbit/s

95th percentile per-packet one-way delay: 180.944 ms

Loss rate: 1.64%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-09-21 21:17:55

End at: 2017-09-21 21:18:25

# Below is generated by plot.py at 2017-09-21 23:46:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 131.39 Mbit/s

95th percentile per-packet one-way delay: 202.219 ms

Loss rate: 0.54%

-- Flow 1:

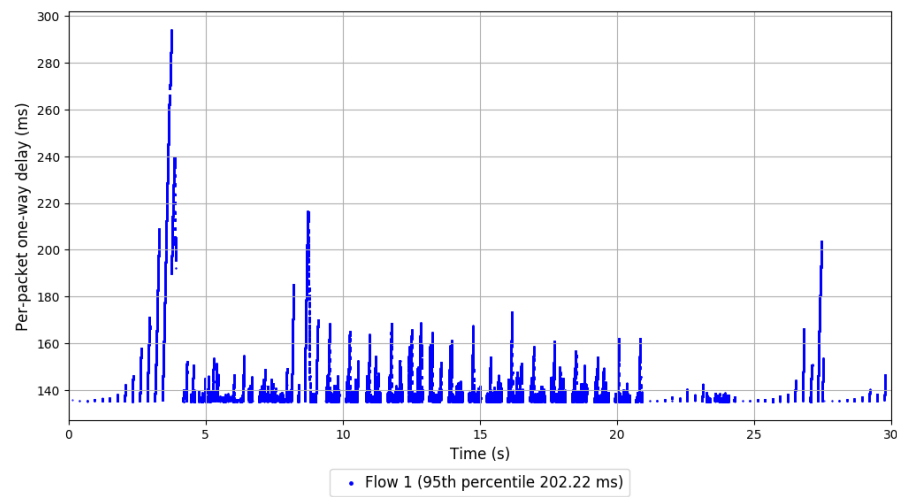
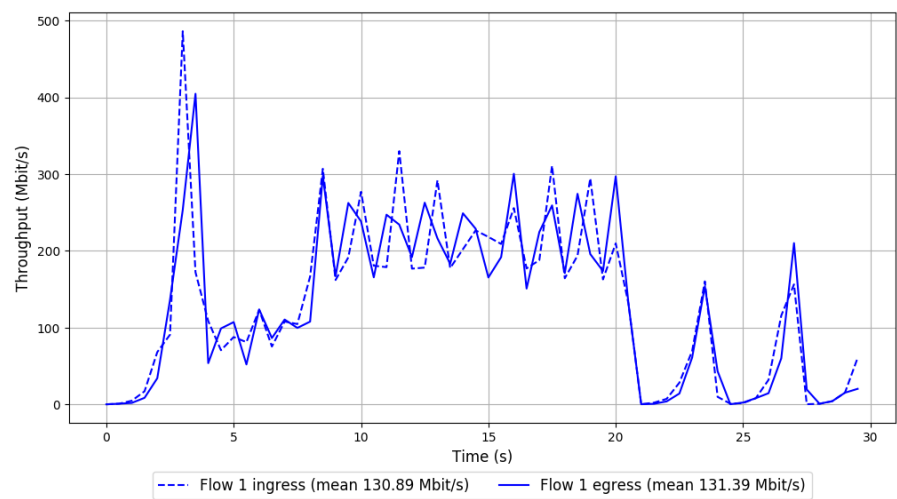
Average throughput: 131.39 Mbit/s

95th percentile per-packet one-way delay: 202.219 ms

Loss rate: 0.54%



Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-09-21 21:29:14

End at: 2017-09-21 21:29:44

# Below is generated by plot.py at 2017-09-21 23:48:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 172.79 Mbit/s

95th percentile per-packet one-way delay: 235.997 ms

Loss rate: 2.27%

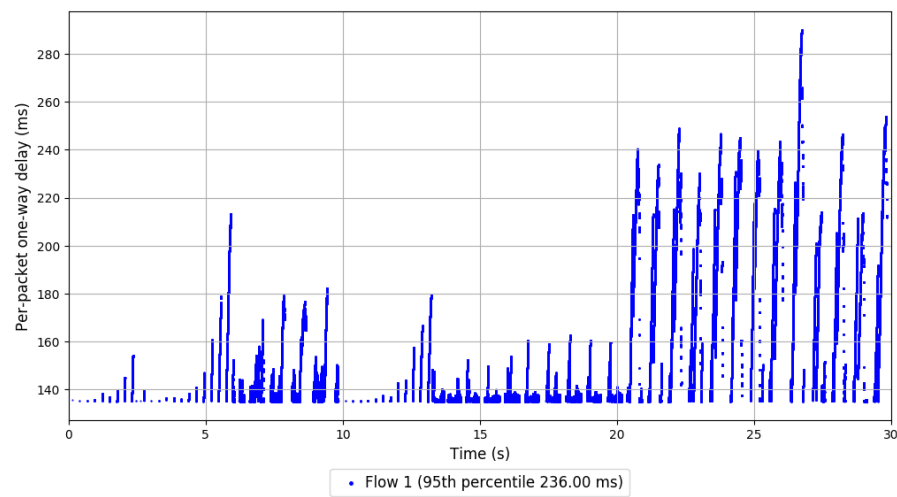
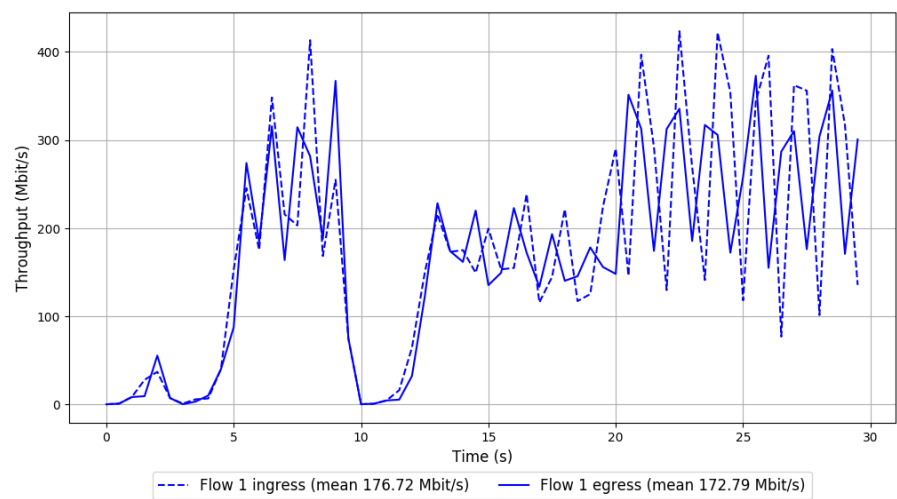
-- Flow 1:

Average throughput: 172.79 Mbit/s

95th percentile per-packet one-way delay: 235.997 ms

Loss rate: 2.27%

Run 10: Report of Verus — Data Link

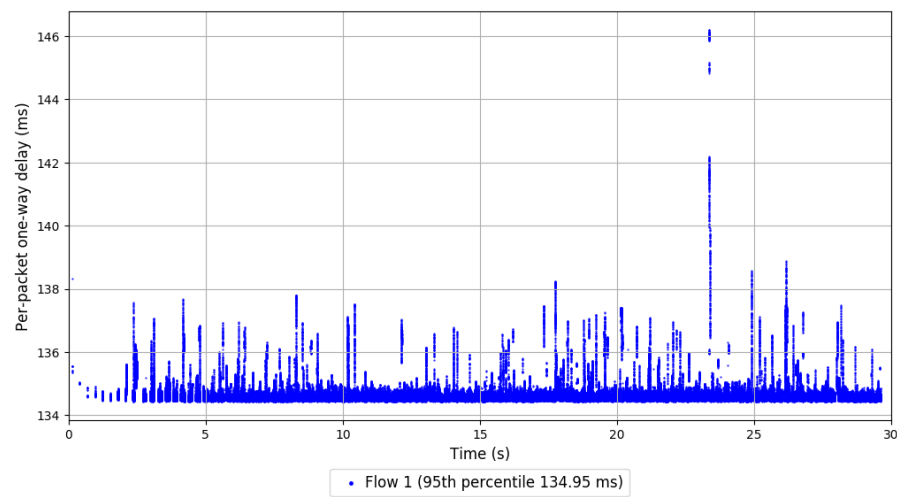
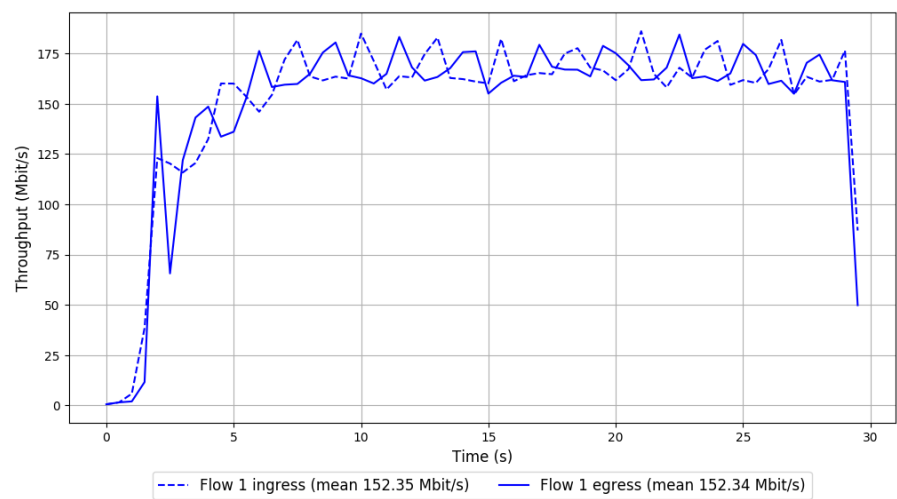


```
Run 1: Statistics of Indigo

Start at: 2017-09-21 19:42:31
End at: 2017-09-21 19:43:01

# Below is generated by plot.py at 2017-09-21 23:48:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 152.34 Mbit/s
95th percentile per-packet one-way delay: 134.952 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 152.34 Mbit/s
95th percentile per-packet one-way delay: 134.952 ms
Loss rate: 0.96%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-09-21 19:53:41

End at: 2017-09-21 19:54:11

# Below is generated by plot.py at 2017-09-21 23:48:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 151.40 Mbit/s

95th percentile per-packet one-way delay: 135.243 ms

Loss rate: 1.02%

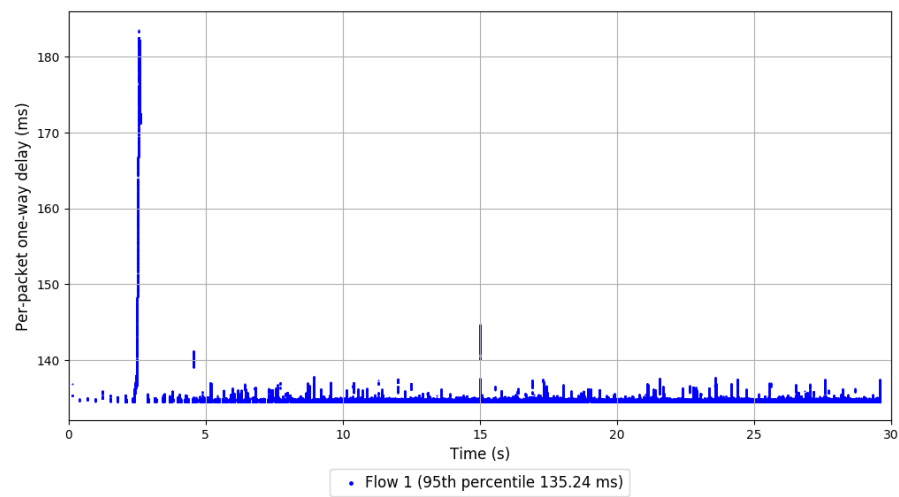
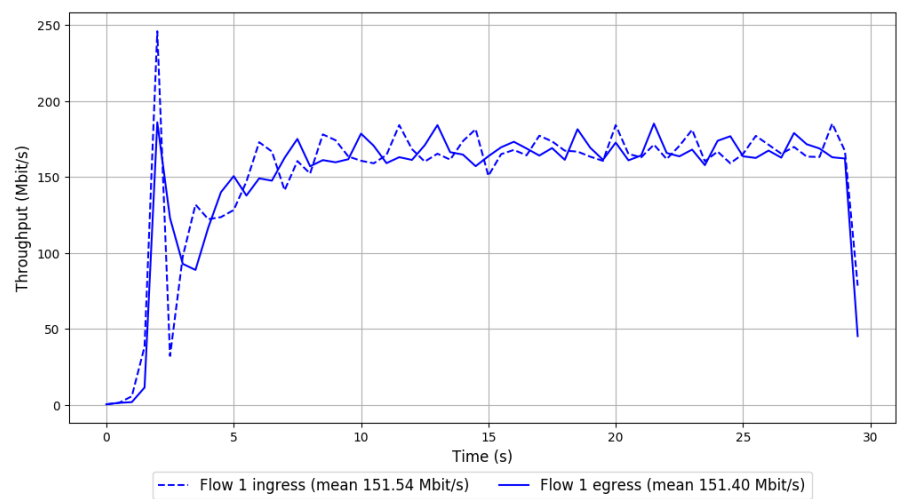
-- Flow 1:

Average throughput: 151.40 Mbit/s

95th percentile per-packet one-way delay: 135.243 ms

Loss rate: 1.02%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-09-21 20:05:15

End at: 2017-09-21 20:05:45

# Below is generated by plot.py at 2017-09-21 23:48:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 150.38 Mbit/s

95th percentile per-packet one-way delay: 135.346 ms

Loss rate: 0.94%

-- Flow 1:

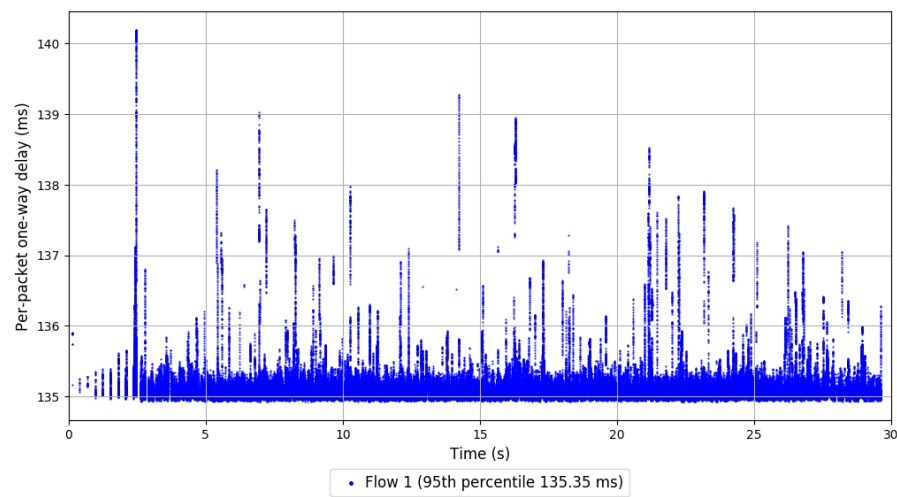
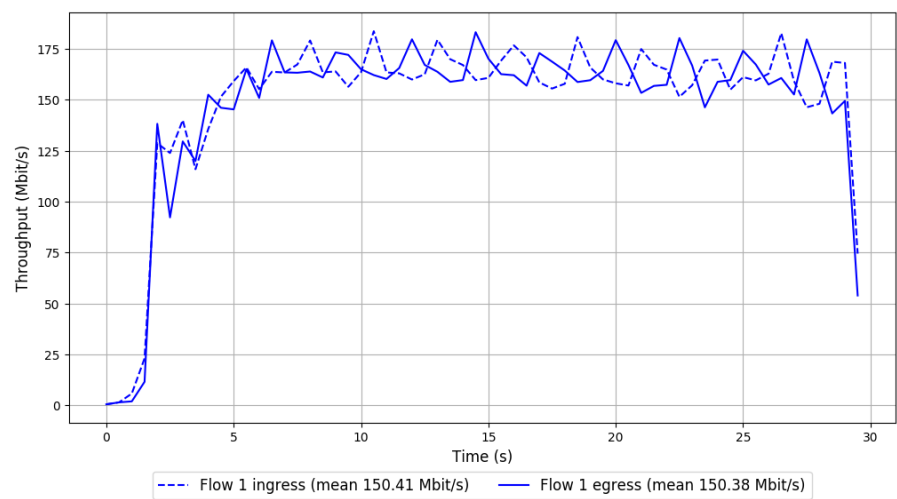
Average throughput: 150.38 Mbit/s

95th percentile per-packet one-way delay: 135.346 ms

Loss rate: 0.94%



Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

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

End at: 2017-09-21 20:16:51

# Below is generated by plot.py at 2017-09-21 23:48:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 151.65 Mbit/s

95th percentile per-packet one-way delay: 135.829 ms

Loss rate: 1.02%

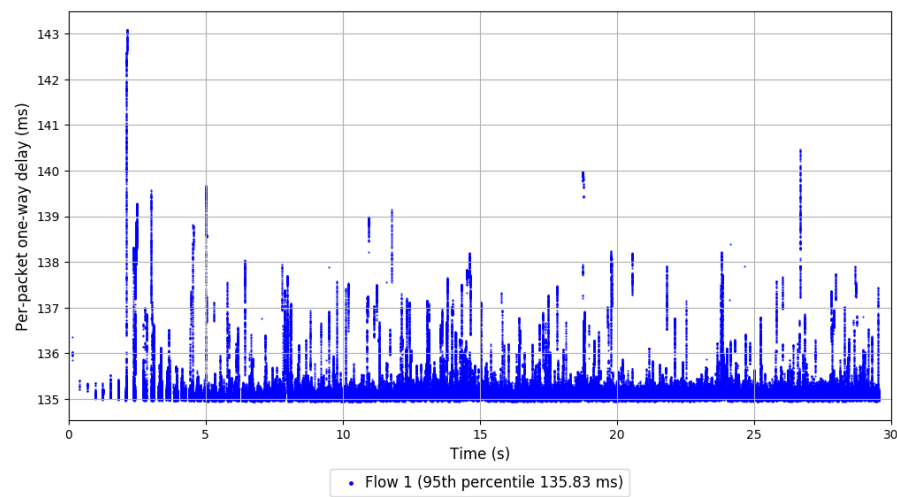
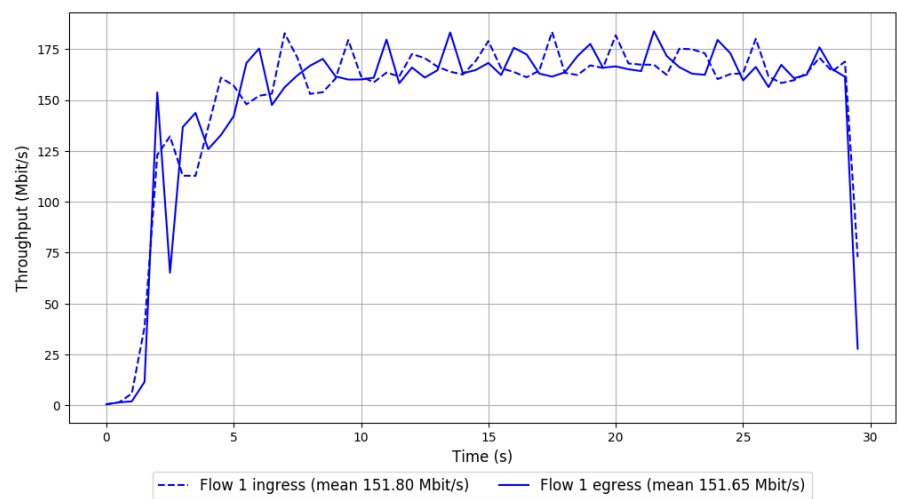
-- Flow 1:

Average throughput: 151.65 Mbit/s

95th percentile per-packet one-way delay: 135.829 ms

Loss rate: 1.02%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-09-21 20:27:36

End at: 2017-09-21 20:28:06

# Below is generated by plot.py at 2017-09-21 23:48:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 151.19 Mbit/s

95th percentile per-packet one-way delay: 135.495 ms

Loss rate: 1.01%

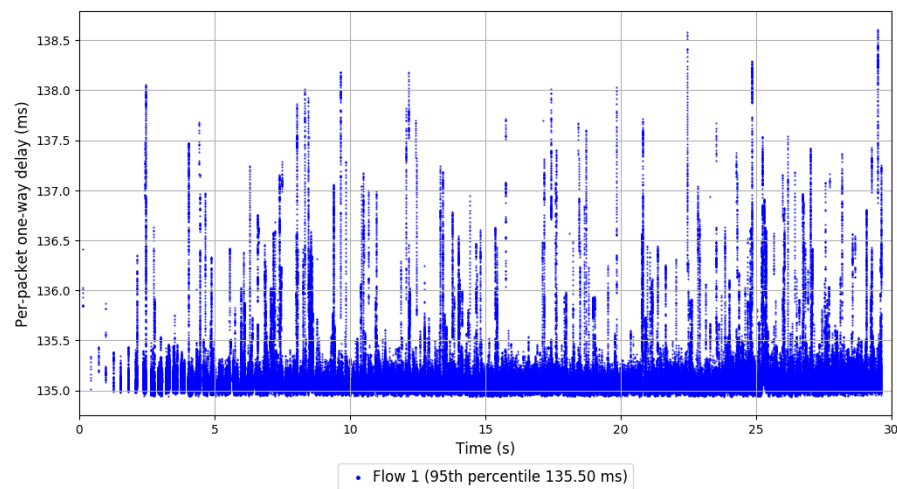
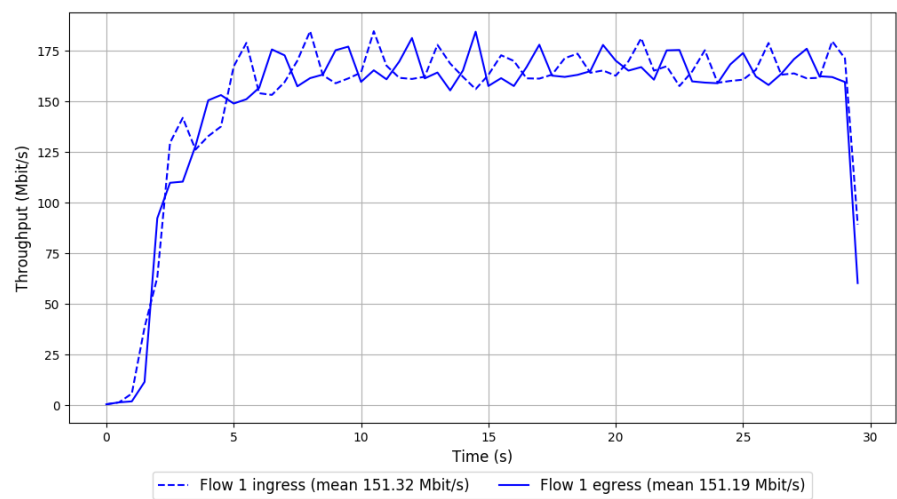
-- Flow 1:

Average throughput: 151.19 Mbit/s

95th percentile per-packet one-way delay: 135.495 ms

Loss rate: 1.01%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-09-21 20:38:30

End at: 2017-09-21 20:39:00

# Below is generated by plot.py at 2017-09-21 23:48:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 152.88 Mbit/s

95th percentile per-packet one-way delay: 136.230 ms

Loss rate: 1.02%

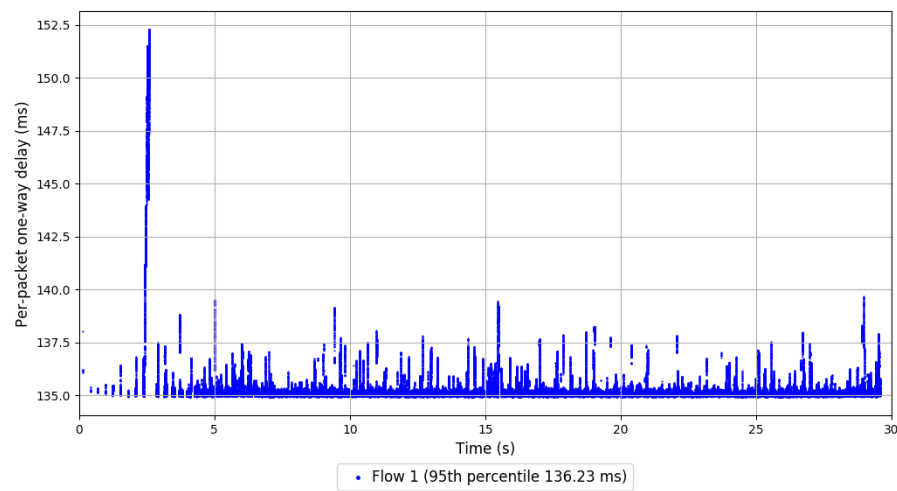
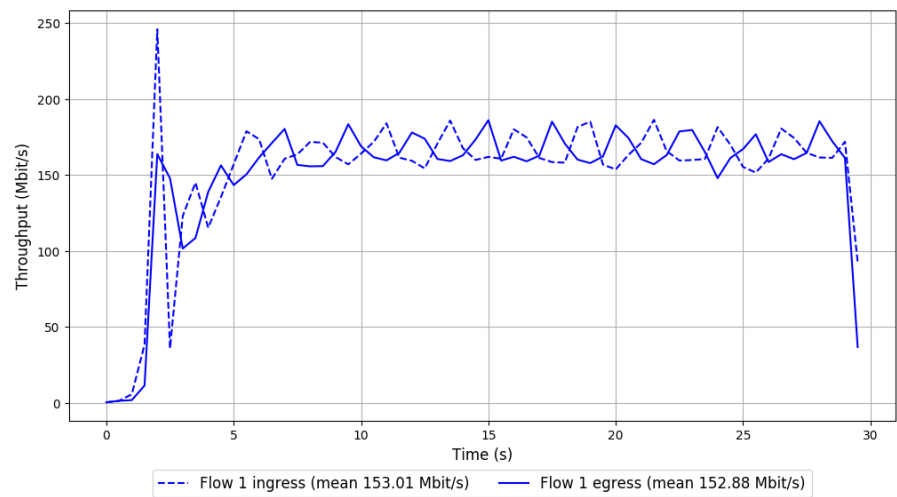
-- Flow 1:

Average throughput: 152.88 Mbit/s

95th percentile per-packet one-way delay: 136.230 ms

Loss rate: 1.02%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-09-21 20:50:06

End at: 2017-09-21 20:50:36

# Below is generated by plot.py at 2017-09-21 23:49:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 150.56 Mbit/s

95th percentile per-packet one-way delay: 135.673 ms

Loss rate: 1.00%

-- Flow 1:

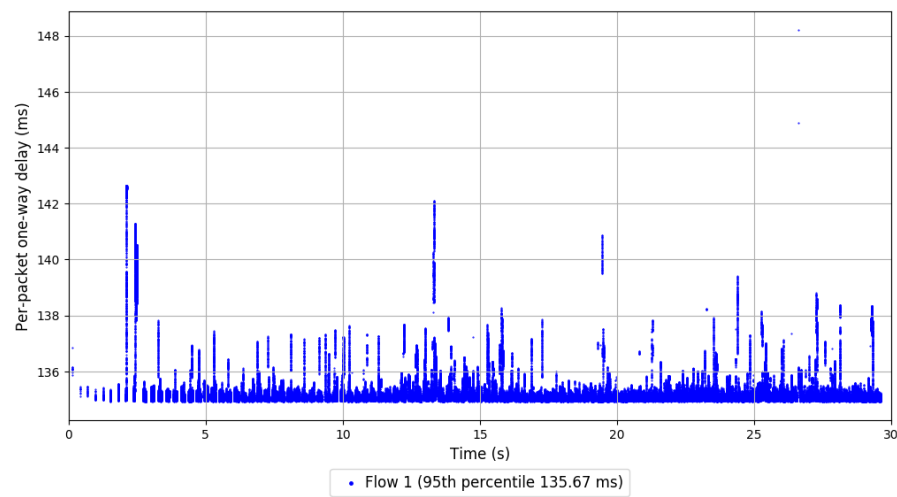
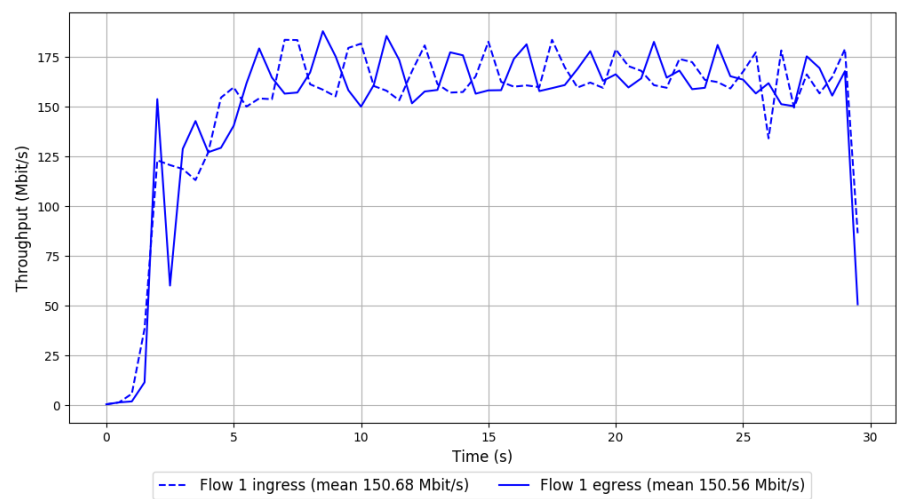
Average throughput: 150.56 Mbit/s

95th percentile per-packet one-way delay: 135.673 ms

Loss rate: 1.00%



Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

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 23:50:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 152.52 Mbit/s

95th percentile per-packet one-way delay: 135.596 ms

Loss rate: 1.02%

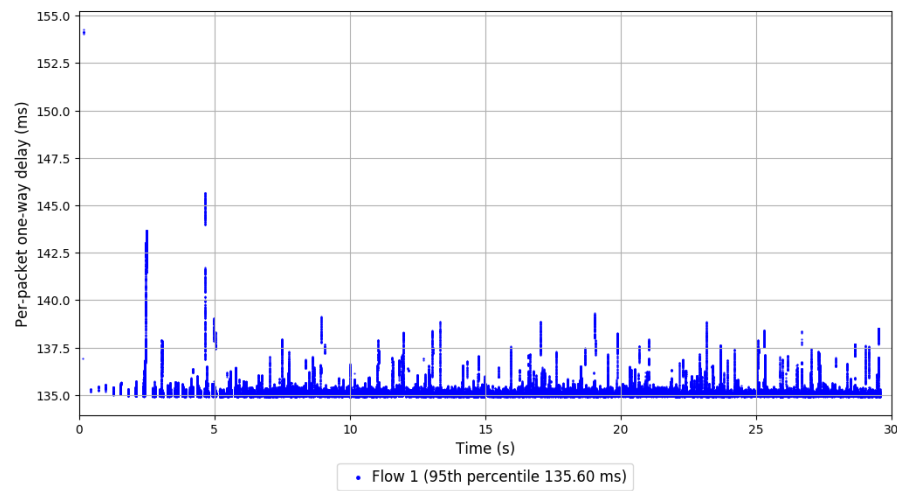
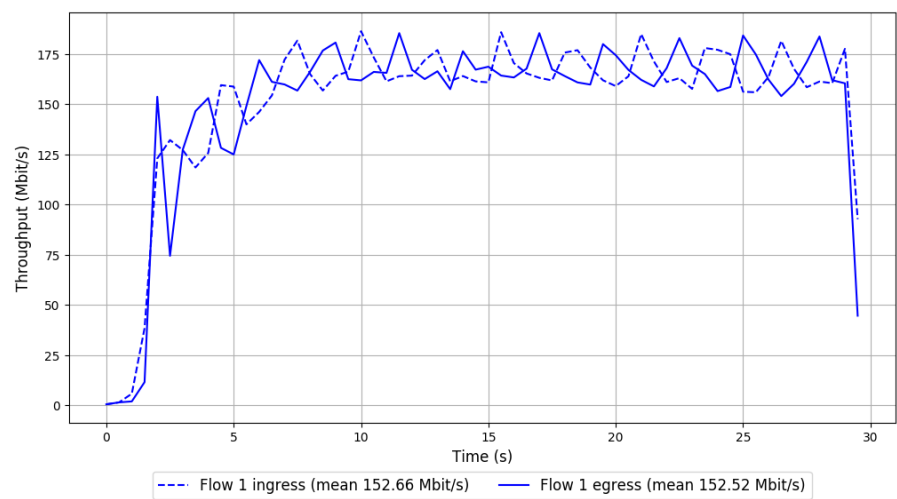
-- Flow 1:

Average throughput: 152.52 Mbit/s

95th percentile per-packet one-way delay: 135.596 ms

Loss rate: 1.02%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-09-21 21:13:07

End at: 2017-09-21 21:13:37

# Below is generated by plot.py at 2017-09-21 23:50:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 152.90 Mbit/s

95th percentile per-packet one-way delay: 135.729 ms

Loss rate: 1.01%

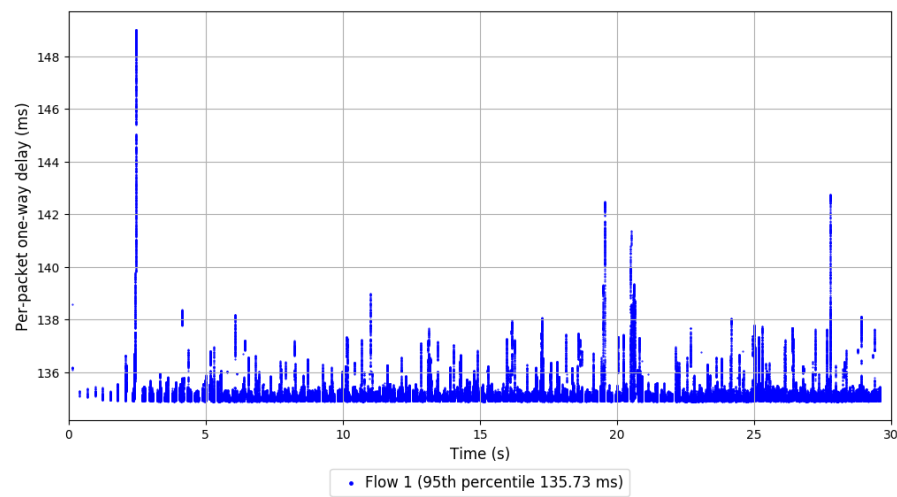
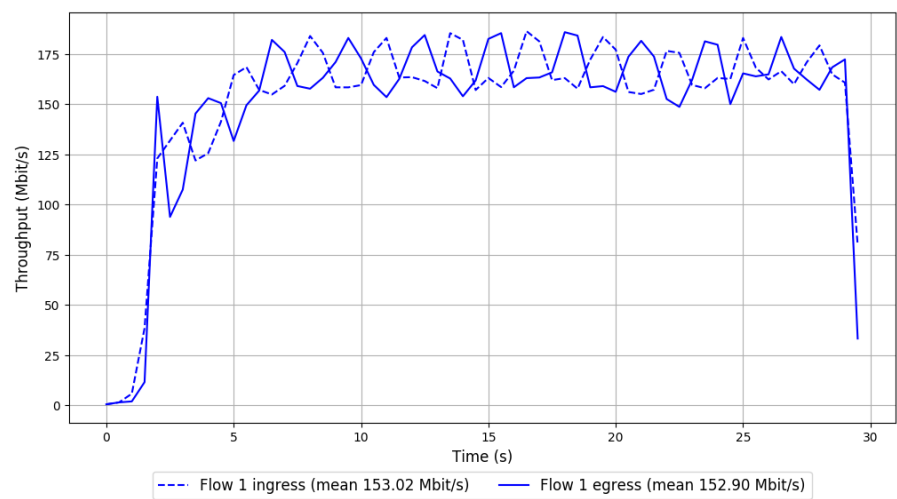
-- Flow 1:

Average throughput: 152.90 Mbit/s

95th percentile per-packet one-way delay: 135.729 ms

Loss rate: 1.01%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-09-21 21:24:32

End at: 2017-09-21 21:25:02

# Below is generated by plot.py at 2017-09-21 23:50:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 151.01 Mbit/s

95th percentile per-packet one-way delay: 135.559 ms

Loss rate: 1.00%

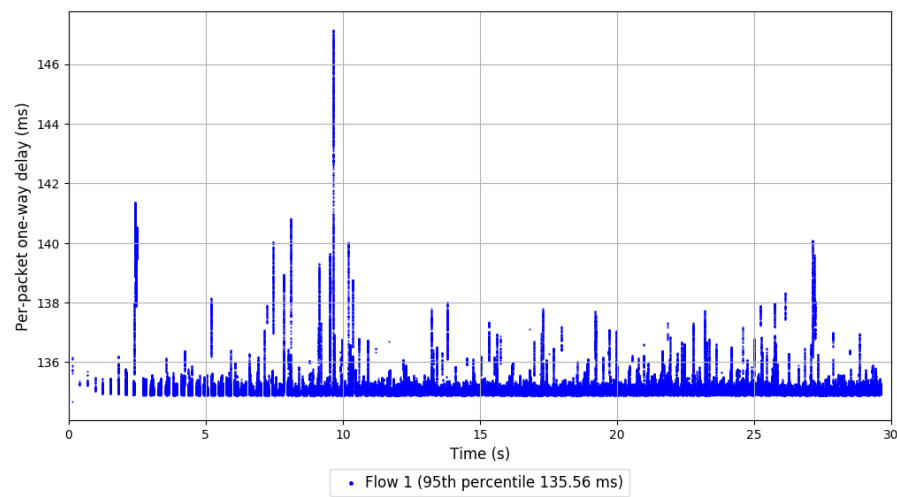
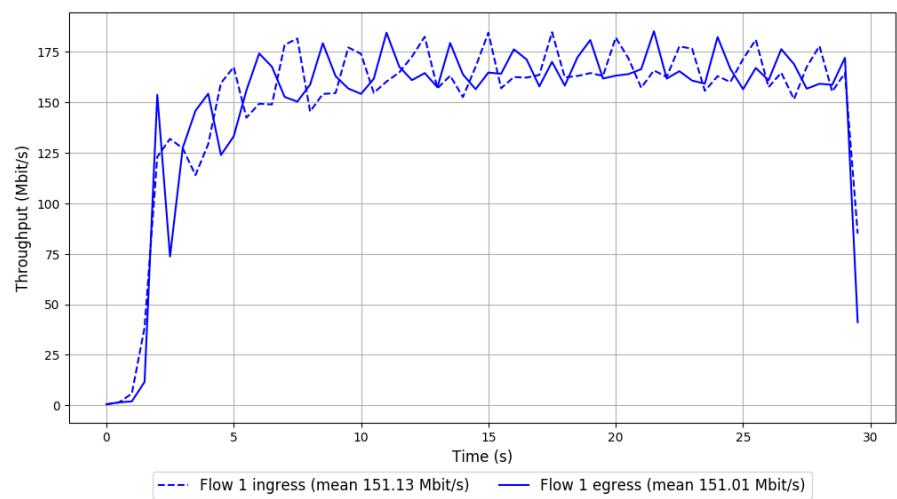
-- Flow 1:

Average throughput: 151.01 Mbit/s

95th percentile per-packet one-way delay: 135.559 ms

Loss rate: 1.00%

Run 10: Report of Indigo — Data Link



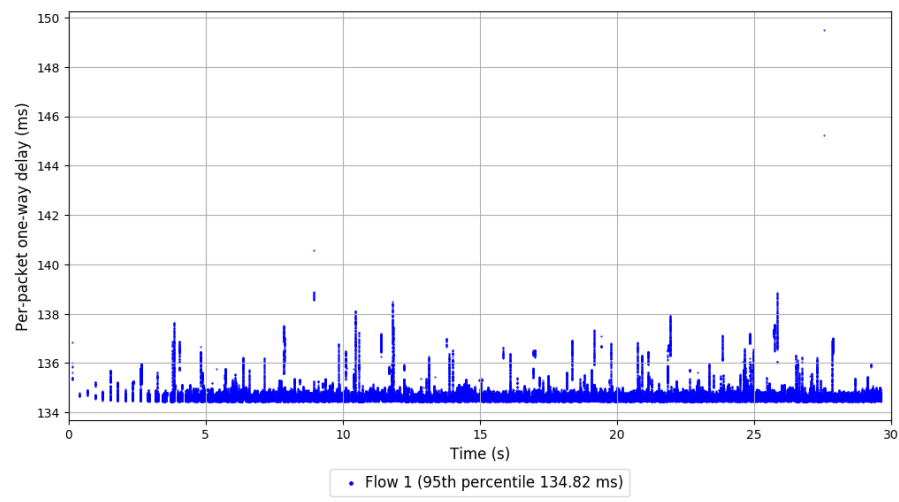
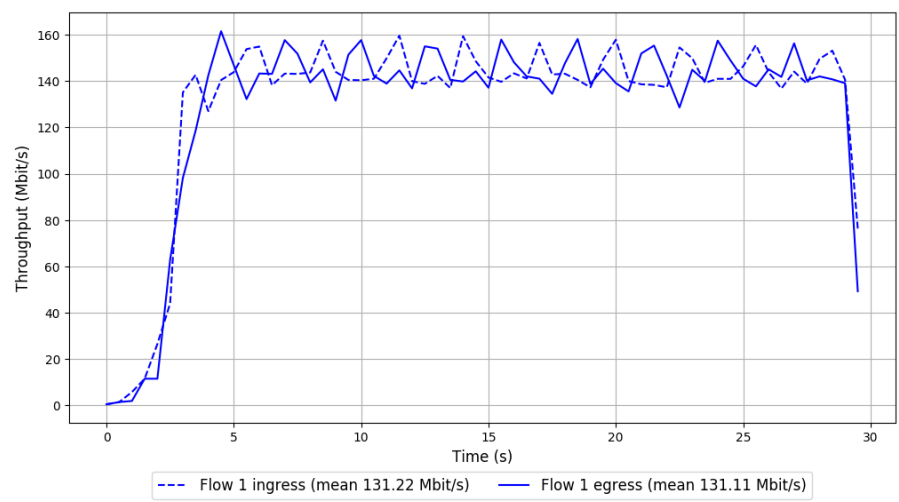
```
Run 1: Statistics of Indigo-calib

Start at: 2017-09-21 19:44:55
End at: 2017-09-21 19:45:25

# Below is generated by plot.py at 2017-09-21 23:50:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 131.11 Mbit/s
95th percentile per-packet one-way delay: 134.824 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 131.11 Mbit/s
95th percentile per-packet one-way delay: 134.824 ms
Loss rate: 0.99%
```



Run 1: Report of Indigo-calib — Data Link

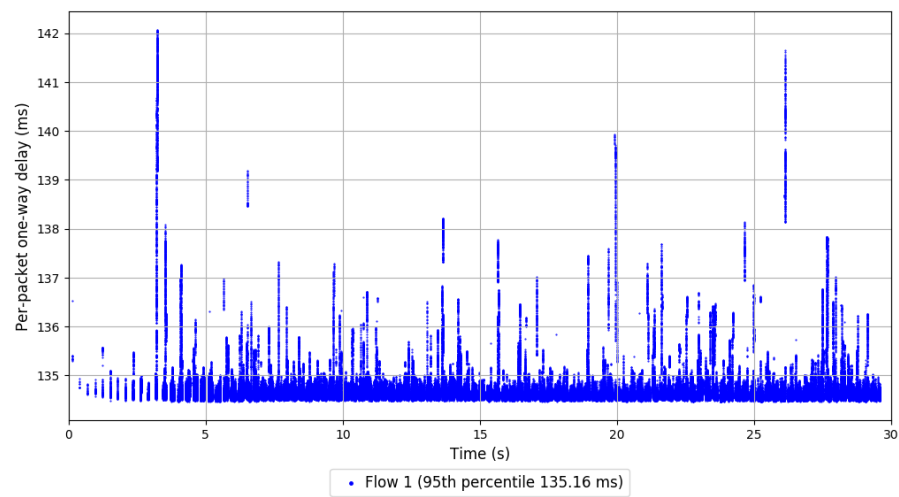
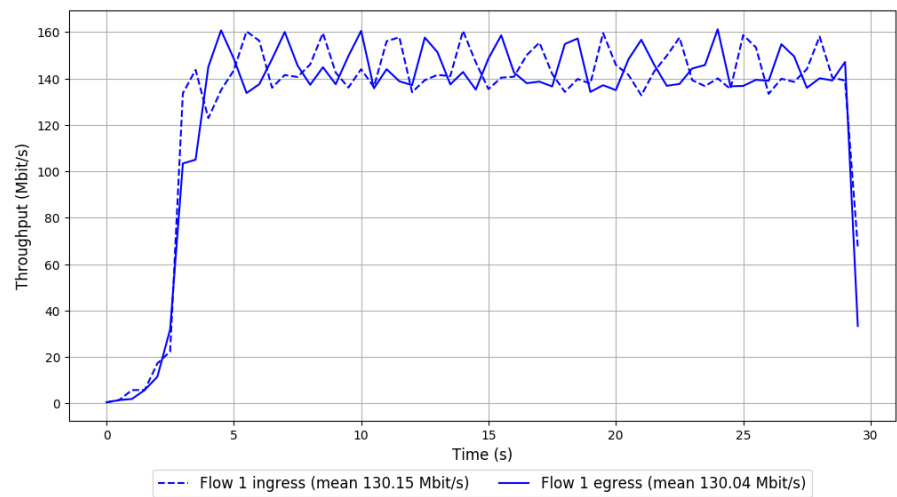


```
Run 2: Statistics of Indigo-calib

Start at: 2017-09-21 19:56:03
End at: 2017-09-21 19:56:33

# Below is generated by plot.py at 2017-09-21 23:50:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 130.04 Mbit/s
95th percentile per-packet one-way delay: 135.157 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 130.04 Mbit/s
95th percentile per-packet one-way delay: 135.157 ms
Loss rate: 1.00%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-09-21 20:07:34

End at: 2017-09-21 20:08:04

# Below is generated by plot.py at 2017-09-21 23:50:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 130.42 Mbit/s

95th percentile per-packet one-way delay: 135.471 ms

Loss rate: 0.99%

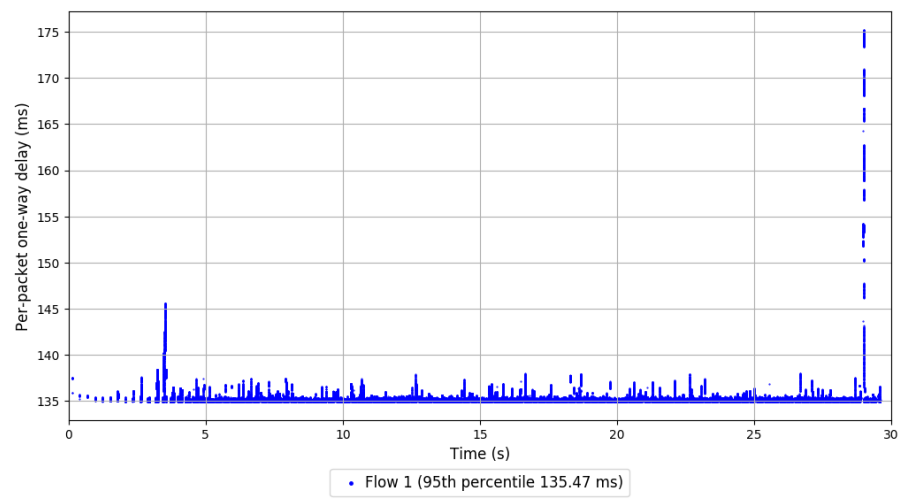
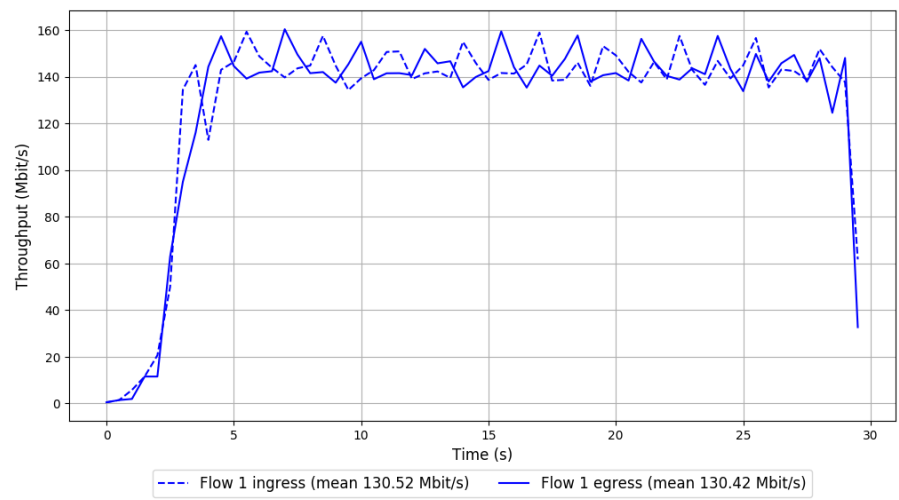
-- Flow 1:

Average throughput: 130.42 Mbit/s

95th percentile per-packet one-way delay: 135.471 ms

Loss rate: 0.99%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-09-21 20:18:45

End at: 2017-09-21 20:19:15

# Below is generated by plot.py at 2017-09-21 23:51:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 131.14 Mbit/s

95th percentile per-packet one-way delay: 135.459 ms

Loss rate: 1.03%

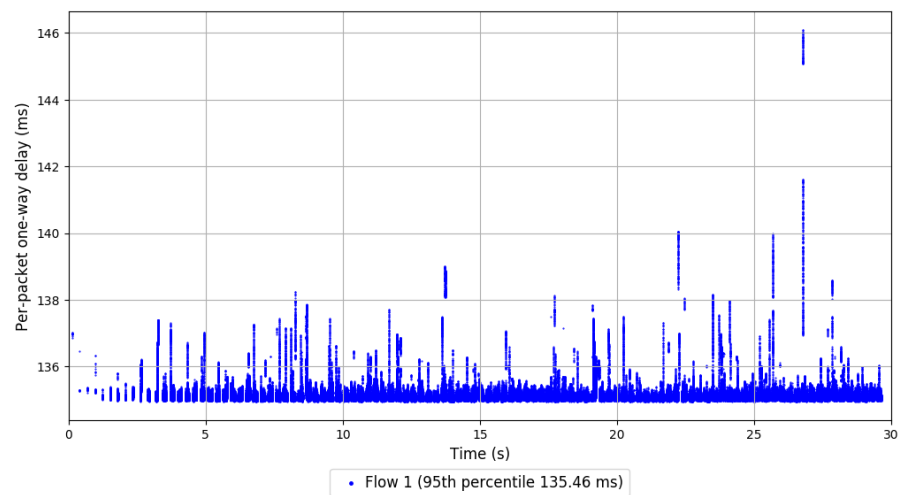
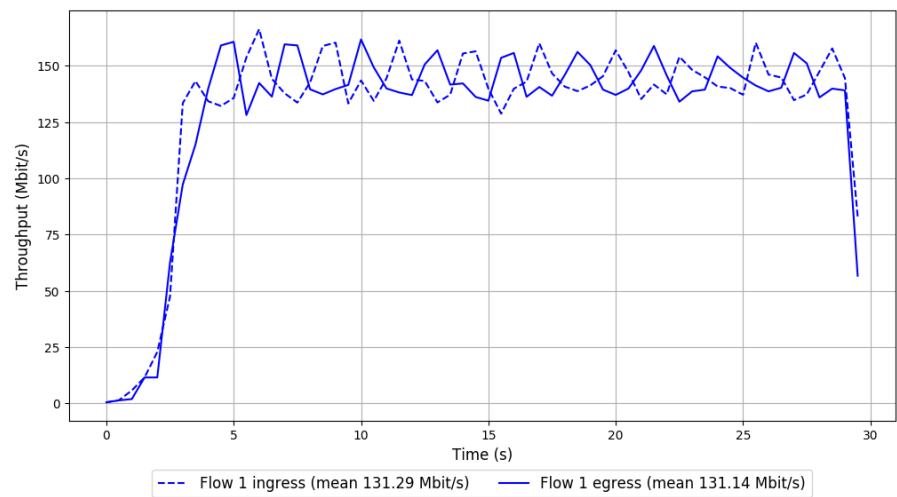
-- Flow 1:

Average throughput: 131.14 Mbit/s

95th percentile per-packet one-way delay: 135.459 ms

Loss rate: 1.03%

Run 4: Report of Indigo-calib — Data Link



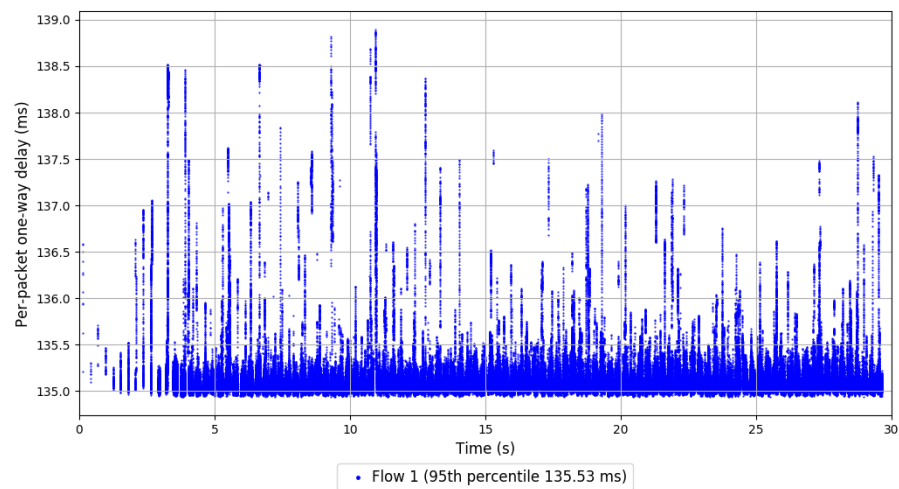
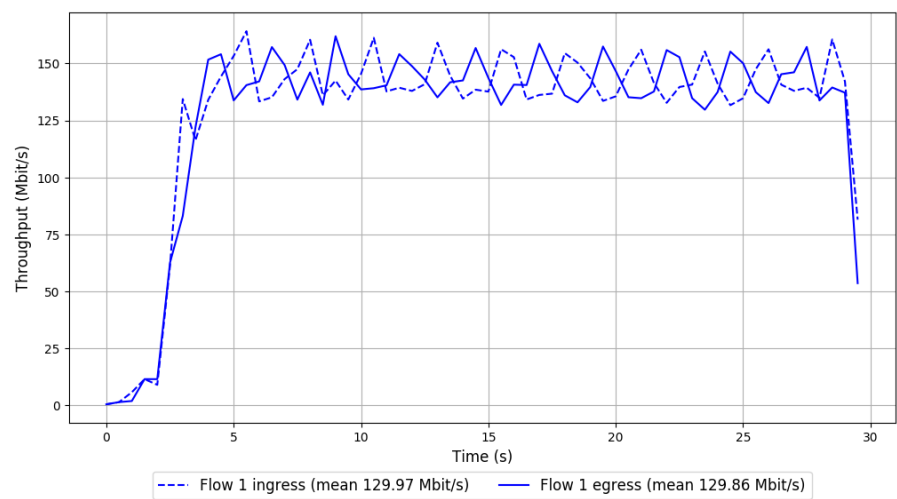
```
Run 5: Statistics of Indigo-calib

Start at: 2017-09-21 20:29:58
End at: 2017-09-21 20:30:28

# Below is generated by plot.py at 2017-09-21 23:51:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 129.86 Mbit/s
95th percentile per-packet one-way delay: 135.528 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 129.86 Mbit/s
95th percentile per-packet one-way delay: 135.528 ms
Loss rate: 0.99%
```



Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-09-21 20:40:54

End at: 2017-09-21 20:41:24

# Below is generated by plot.py at 2017-09-21 23:52:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 130.71 Mbit/s

95th percentile per-packet one-way delay: 135.989 ms

Loss rate: 0.96%

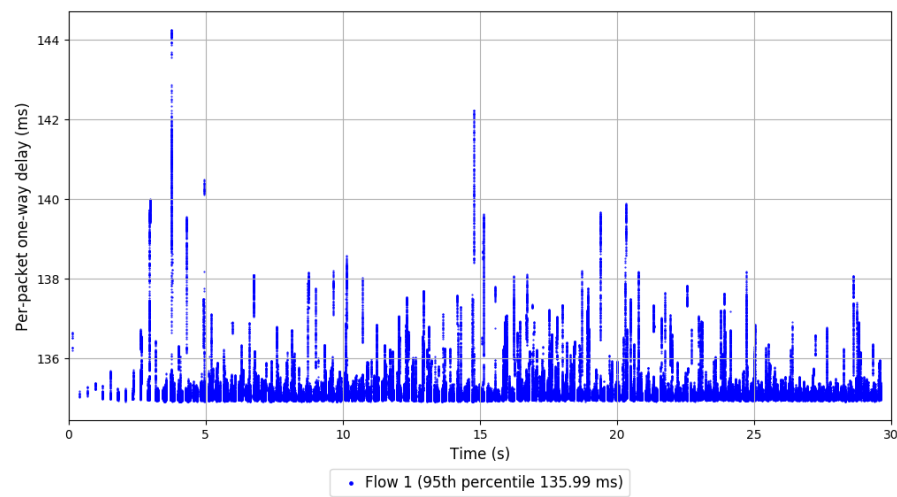
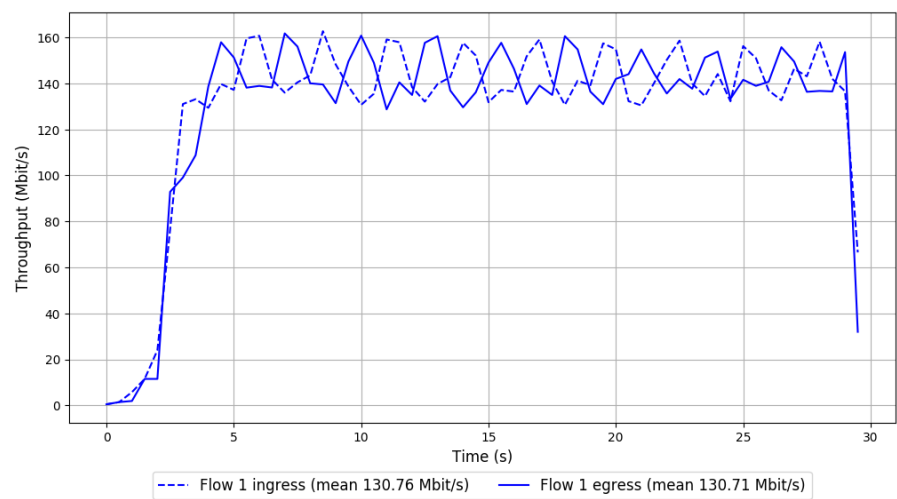
-- Flow 1:

Average throughput: 130.71 Mbit/s

95th percentile per-packet one-way delay: 135.989 ms

Loss rate: 0.96%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

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

End at: 2017-09-21 20:52:58

# Below is generated by plot.py at 2017-09-21 23:52:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 130.20 Mbit/s

95th percentile per-packet one-way delay: 135.737 ms

Loss rate: 1.03%

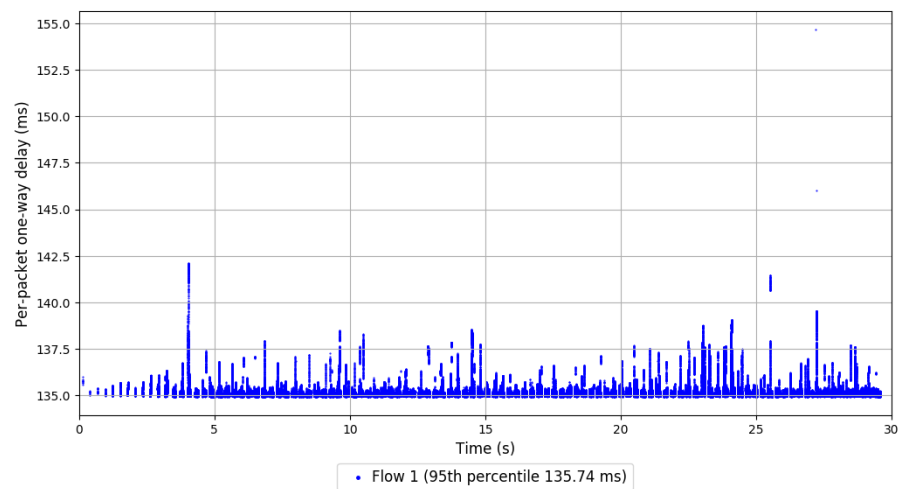
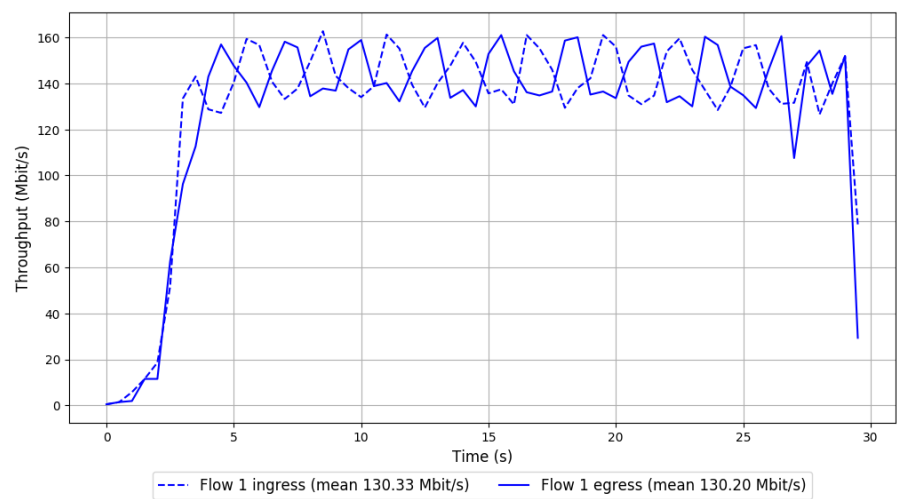
-- Flow 1:

Average throughput: 130.20 Mbit/s

95th percentile per-packet one-way delay: 135.737 ms

Loss rate: 1.03%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

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

End at: 2017-09-21 21:04:34

# Below is generated by plot.py at 2017-09-21 23:52:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 135.91 Mbit/s

95th percentile per-packet one-way delay: 135.330 ms

Loss rate: 0.94%

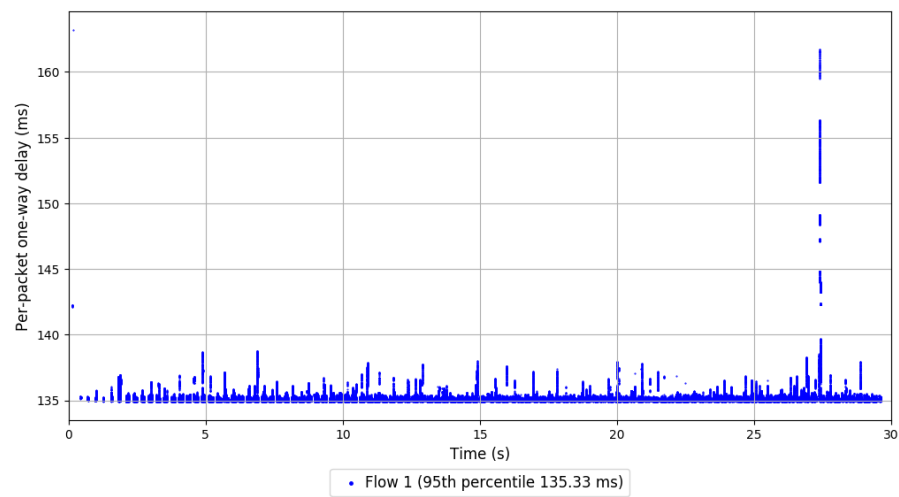
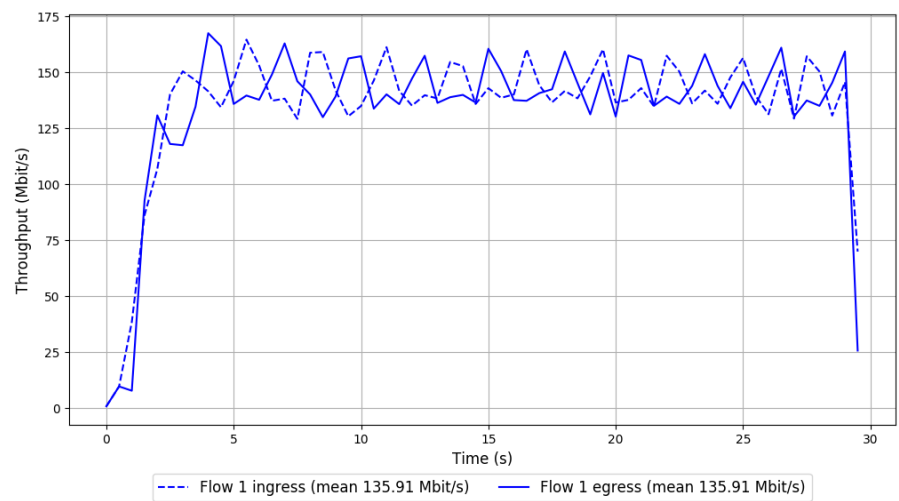
-- Flow 1:

Average throughput: 135.91 Mbit/s

95th percentile per-packet one-way delay: 135.330 ms

Loss rate: 0.94%

Run 8: Report of Indigo-calib — Data Link



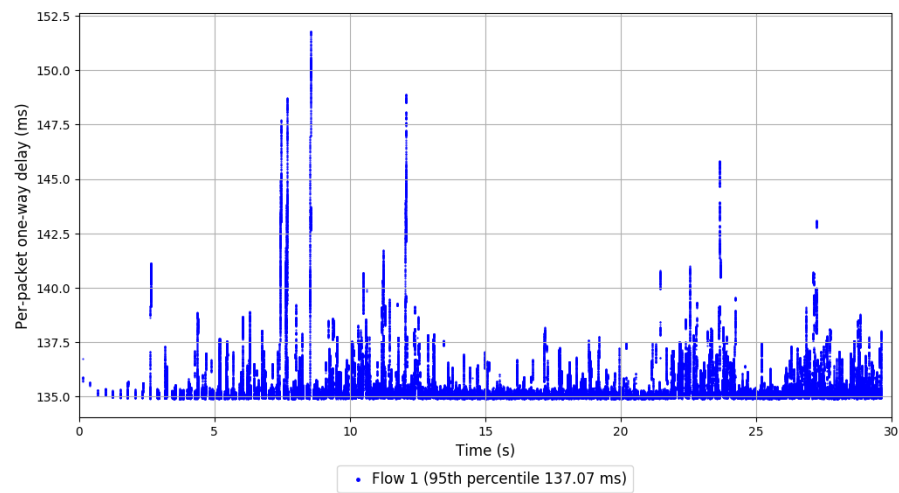
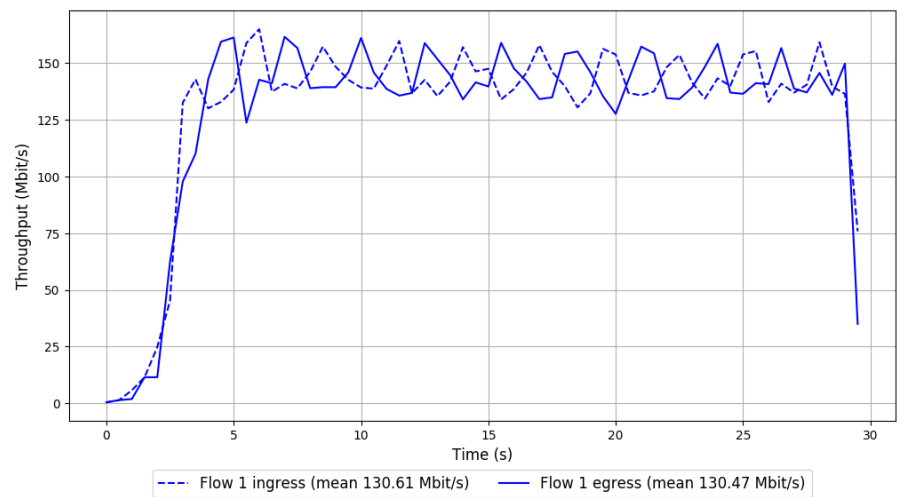
```
Run 9: Statistics of Indigo-calib

Start at: 2017-09-21 21:15:34
End at: 2017-09-21 21:16:04

# Below is generated by plot.py at 2017-09-21 23:52:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 130.47 Mbit/s
95th percentile per-packet one-way delay: 137.069 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 130.47 Mbit/s
95th percentile per-packet one-way delay: 137.069 ms
Loss rate: 1.02%
```



Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

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

End at: 2017-09-21 21:27:25

# Below is generated by plot.py at 2017-09-21 23:52:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 130.38 Mbit/s

95th percentile per-packet one-way delay: 135.624 ms

Loss rate: 0.98%

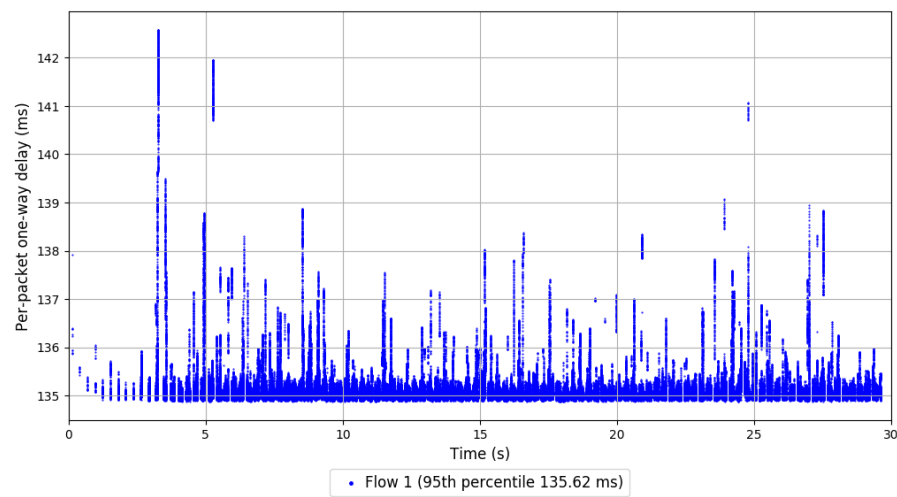
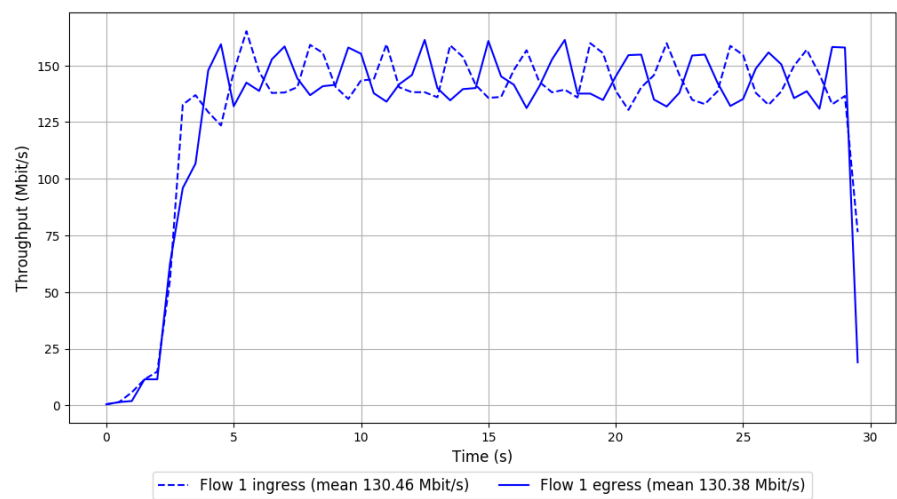
-- Flow 1:

Average throughput: 130.38 Mbit/s

95th percentile per-packet one-way delay: 135.624 ms

Loss rate: 0.98%

Run 10: Report of Indigo-calib — Data Link

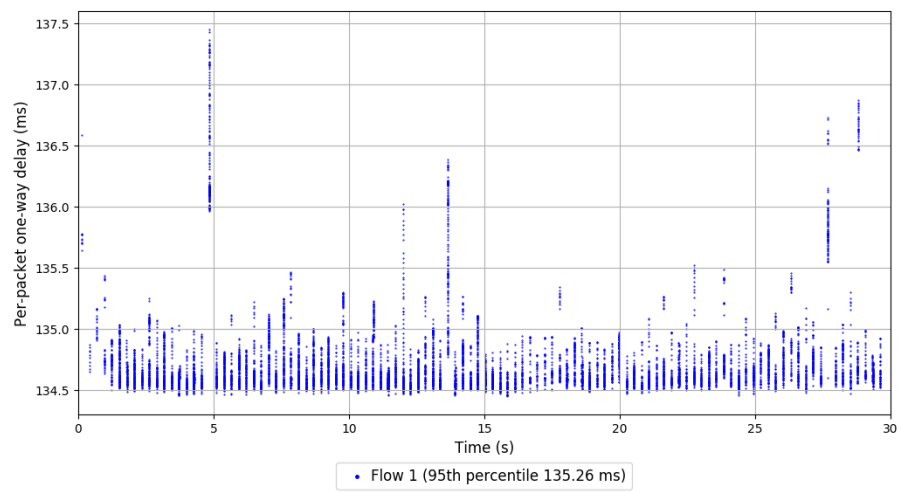
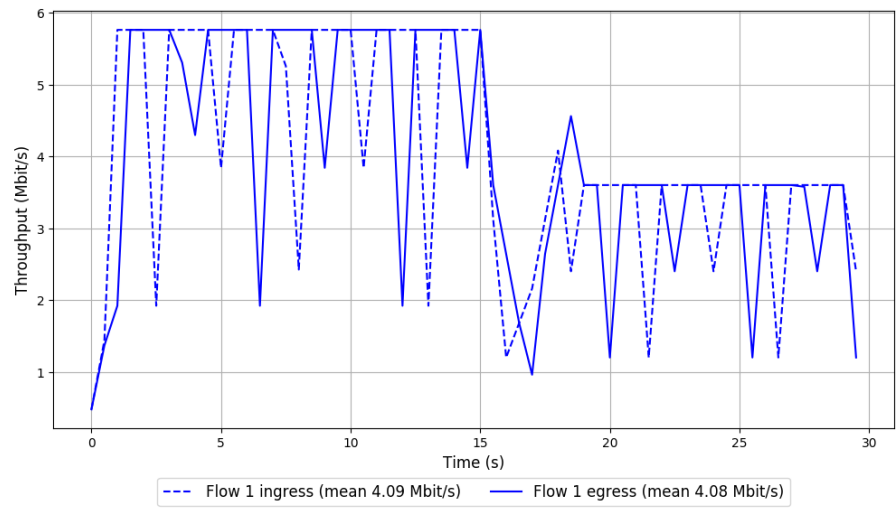


```
Run 1: Statistics of Indigo-delay

Start at: 2017-09-21 19:48:04
End at: 2017-09-21 19:48:34

# Below is generated by plot.py at 2017-09-21 23:52:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.08 Mbit/s
95th percentile per-packet one-way delay: 135.263 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 4.08 Mbit/s
95th percentile per-packet one-way delay: 135.263 ms
Loss rate: 1.03%
```

### Run 1: Report of Indigo-delay — Data Link

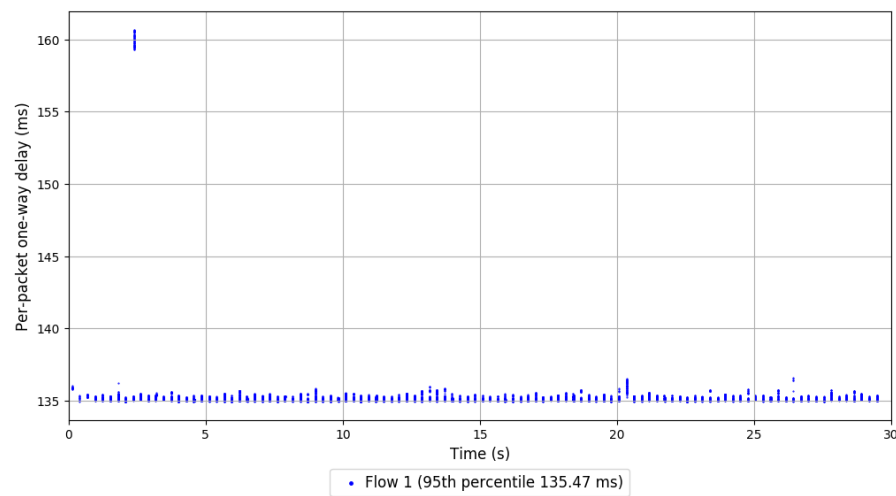
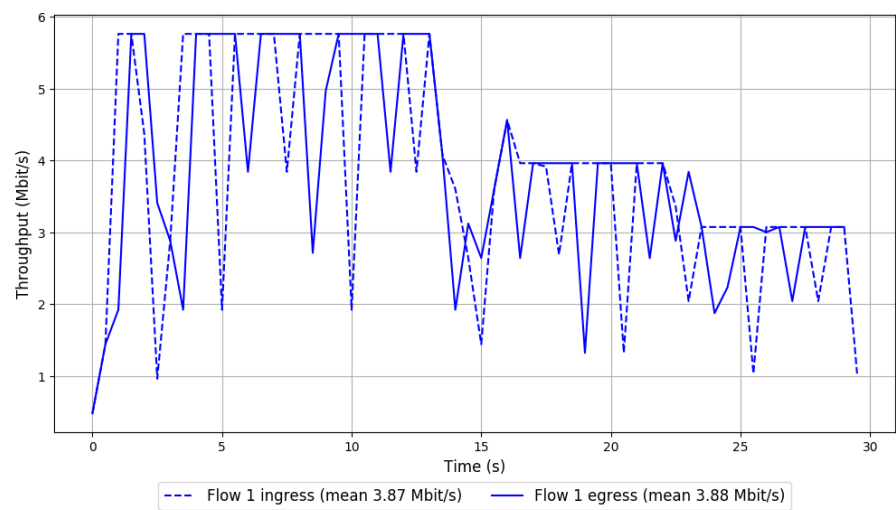


```
Run 2: Statistics of Indigo-delay

Start at: 2017-09-21 19:59:15
End at: 2017-09-21 19:59:45

# Below is generated by plot.py at 2017-09-21 23:52:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 135.471 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 135.471 ms
Loss rate: 0.48%
```

Run 2: Report of Indigo-delay — Data Link



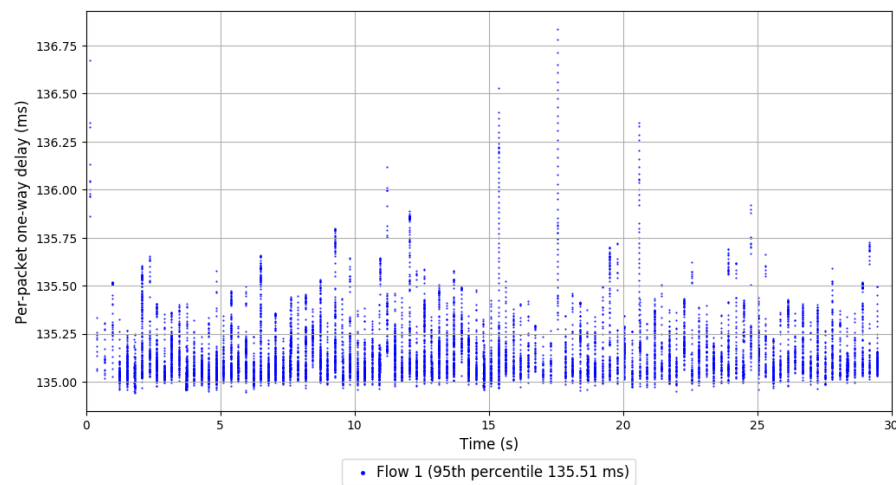
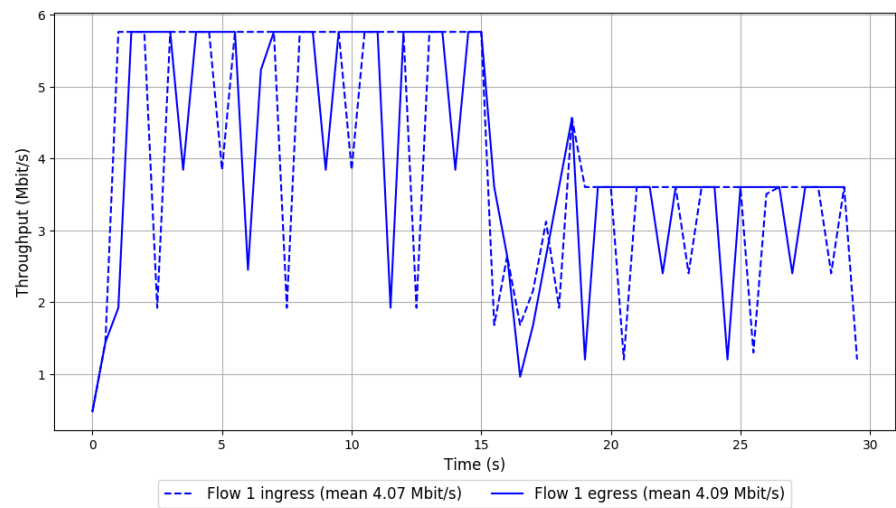
```
Run 3: Statistics of Indigo-delay

Start at: 2017-09-21 20:10:45
End at: 2017-09-21 20:11:15

# Below is generated by plot.py at 2017-09-21 23:52:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 135.507 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 135.507 ms
Loss rate: 0.50%
```



Run 3: Report of Indigo-delay — Data Link



Run 4: Statistics of Indigo-delay

Start at: 2017-09-21 20:22:01

End at: 2017-09-21 20:22:31

# Below is generated by plot.py at 2017-09-21 23:52:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 135.734 ms

Loss rate: 1.10%

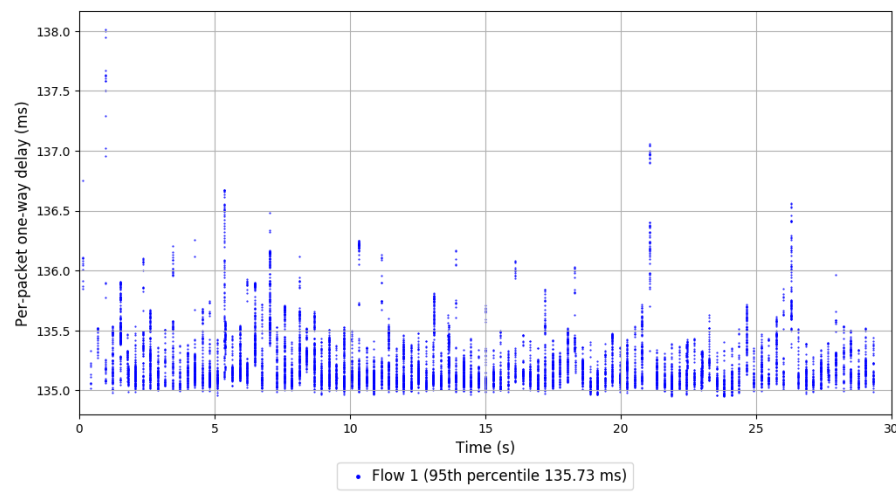
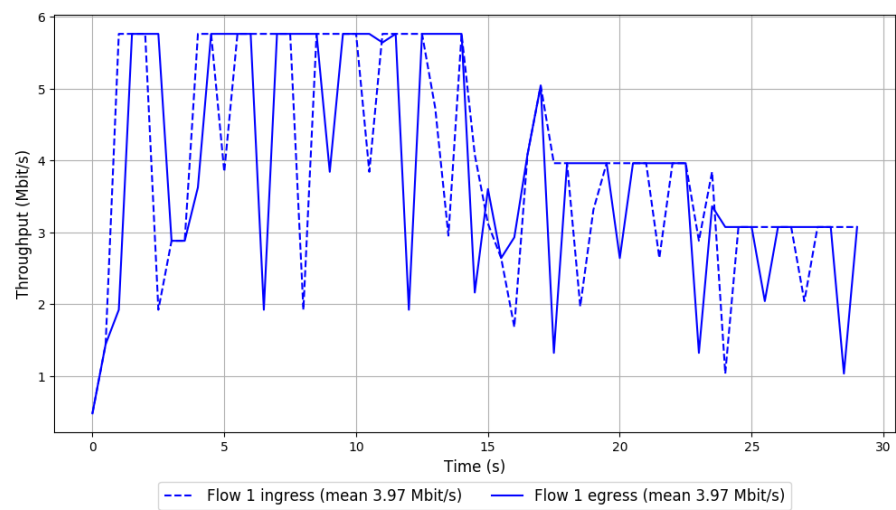
-- Flow 1:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 135.734 ms

Loss rate: 1.10%

Run 4: Report of Indigo-delay — Data Link



Run 5: Statistics of Indigo-delay

Start at: 2017-09-21 20:33:00

End at: 2017-09-21 20:33:30

# Below is generated by plot.py at 2017-09-21 23:52:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 135.521 ms

Loss rate: 0.46%

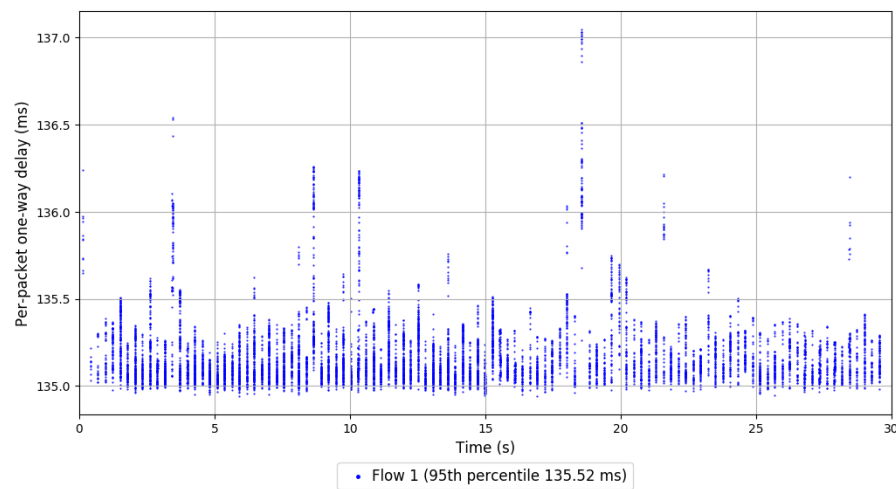
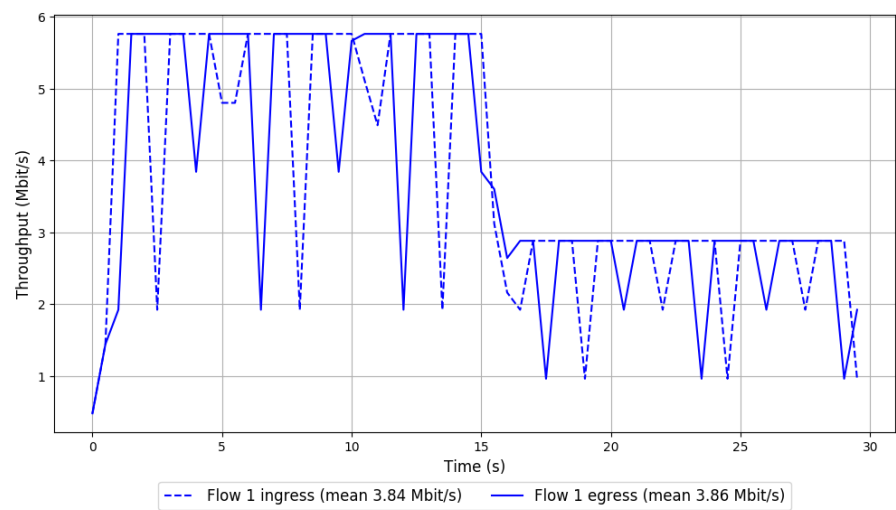
-- Flow 1:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 135.521 ms

Loss rate: 0.46%

Run 5: Report of Indigo-delay — Data Link



Run 6: Statistics of Indigo-delay

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

End at: 2017-09-21 20:44:39

# Below is generated by plot.py at 2017-09-21 23:52:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.02 Mbit/s

95th percentile per-packet one-way delay: 135.480 ms

Loss rate: 0.55%

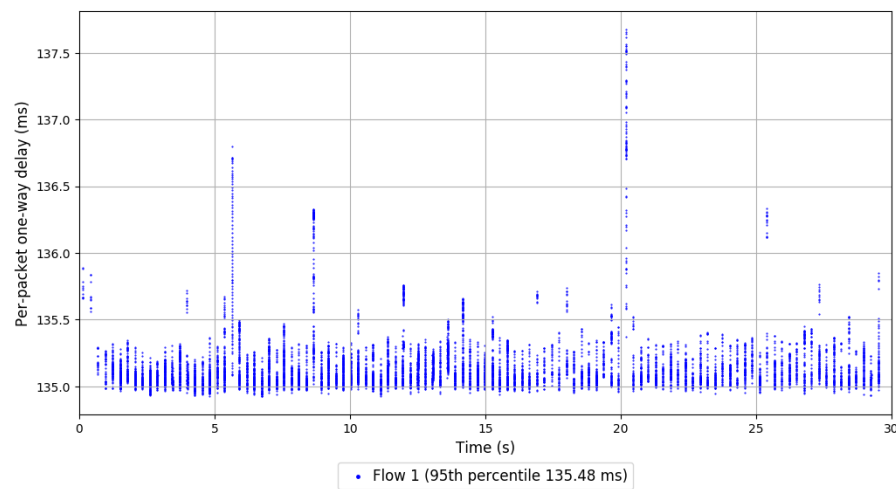
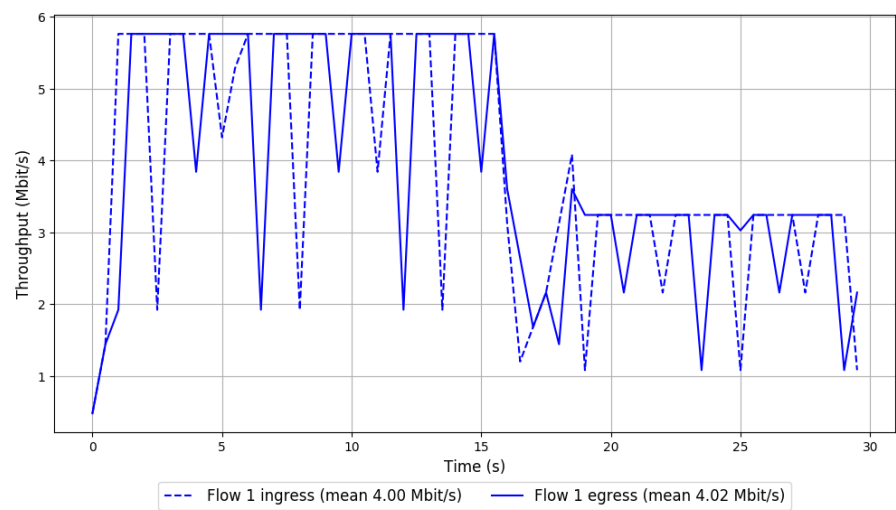
-- Flow 1:

Average throughput: 4.02 Mbit/s

95th percentile per-packet one-way delay: 135.480 ms

Loss rate: 0.55%

Run 6: Report of Indigo-delay — Data Link



Run 7: Statistics of Indigo-delay

Start at: 2017-09-21 20:55:58

End at: 2017-09-21 20:56:28

# Below is generated by plot.py at 2017-09-21 23:52:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 135.718 ms

Loss rate: 0.54%

-- Flow 1:

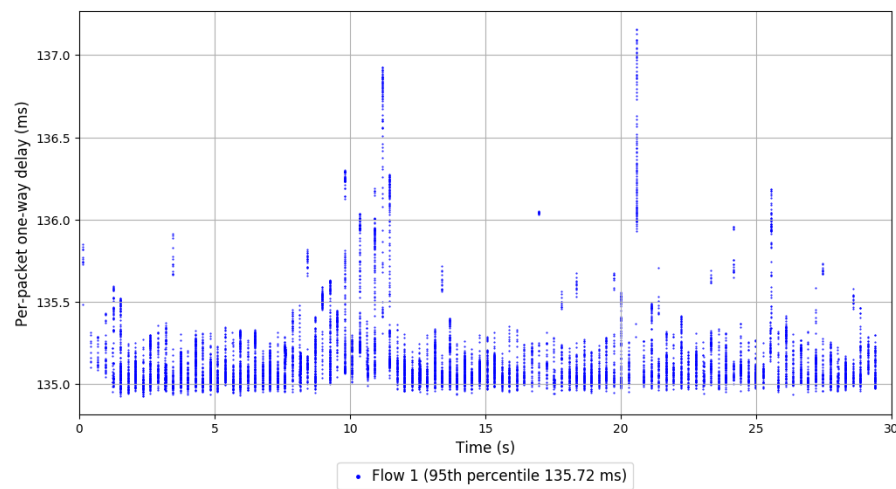
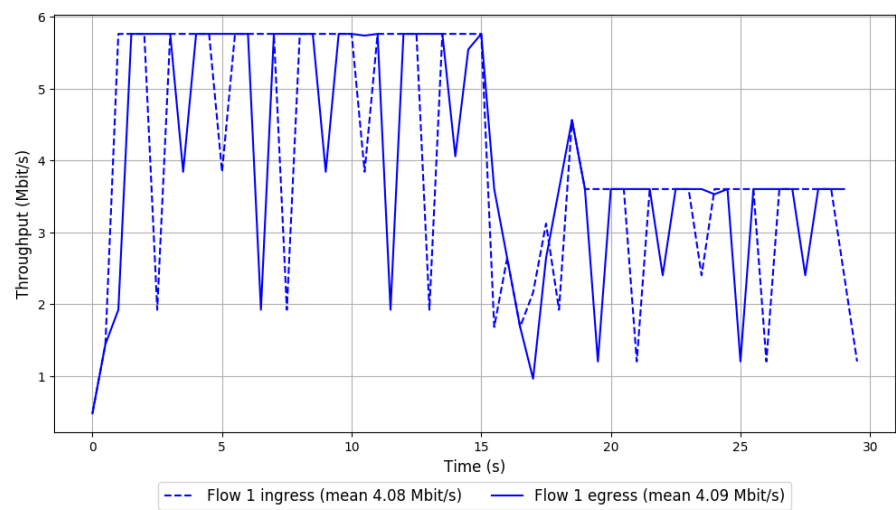
Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 135.718 ms

Loss rate: 0.54%



Run 7: Report of Indigo-delay — Data Link



Run 8: Statistics of Indigo-delay

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

End at: 2017-09-21 21:07:53

# Below is generated by plot.py at 2017-09-21 23:52:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 135.834 ms

Loss rate: 0.61%

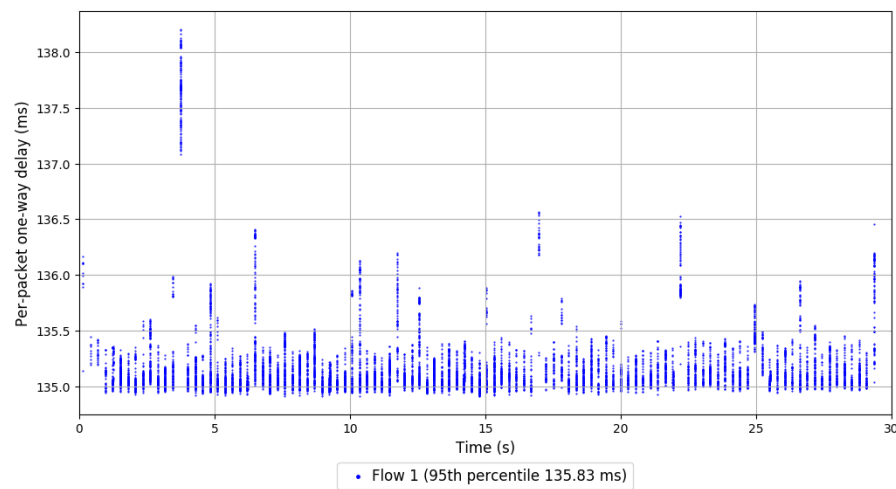
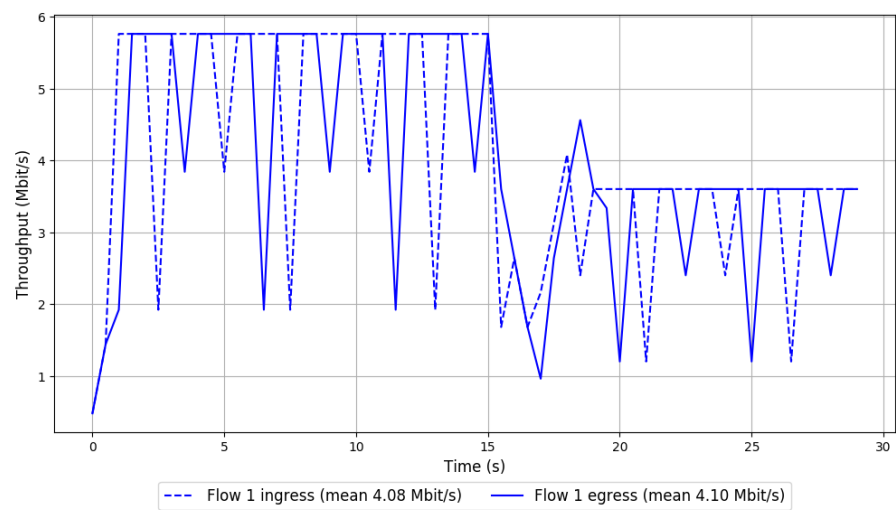
-- Flow 1:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 135.834 ms

Loss rate: 0.61%

Run 8: Report of Indigo-delay — Data Link



Run 9: Statistics of Indigo-delay

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

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

# Below is generated by plot.py at 2017-09-21 23:52:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 3.79 Mbit/s

95th percentile per-packet one-way delay: 135.772 ms

Loss rate: 0.86%

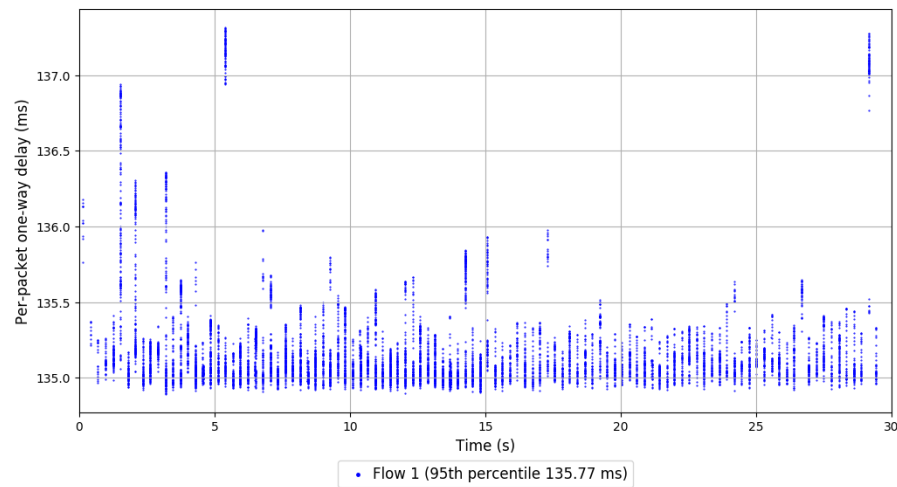
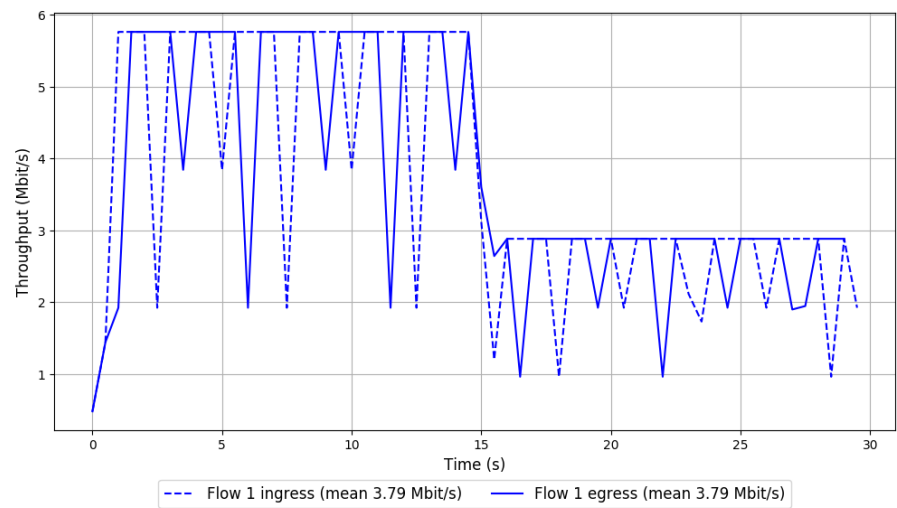
-- Flow 1:

Average throughput: 3.79 Mbit/s

95th percentile per-packet one-way delay: 135.772 ms

Loss rate: 0.86%

Run 9: Report of Indigo-delay — Data Link



Run 10: Statistics of Indigo-delay

Start at: 2017-09-21 21:30:12

End at: 2017-09-21 21:30:42

# Below is generated by plot.py at 2017-09-21 23:52:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 3.80 Mbit/s

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

Loss rate: 0.80%

-- Flow 1:

Average throughput: 3.80 Mbit/s

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

Loss rate: 0.80%

Run 10: Report of Indigo-delay — Data Link

