

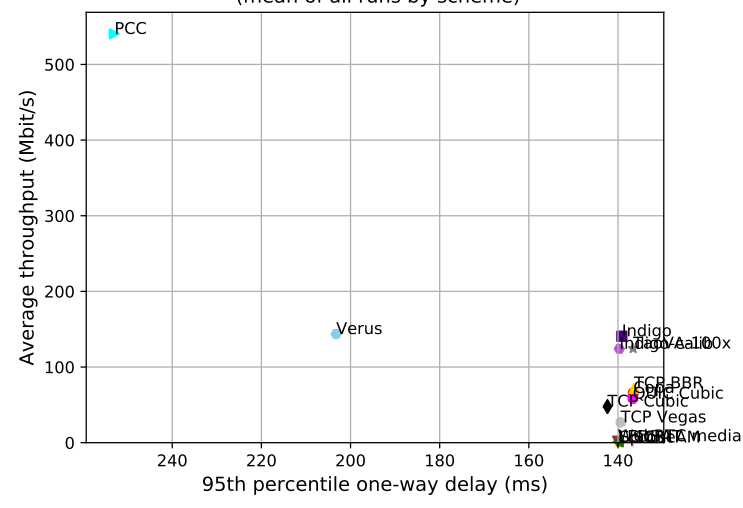
Pantheon Report

Generated at 2017-11-21 12:09:41 (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**).

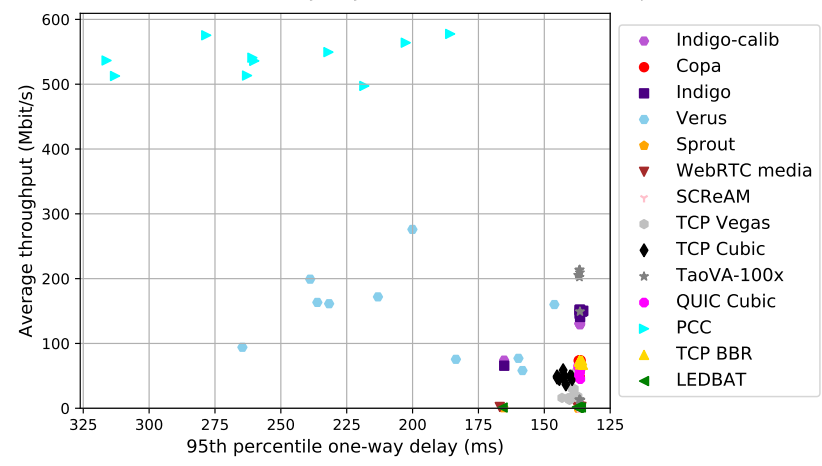
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
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 @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE 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	71.85	136.40	0.99
TCP Cubic	10	47.74	142.37	1.11
LEDBAT	10	1.12	139.97	1.05
PCC	10	540.35	252.96	3.84
QUIC Cubic	7	58.26	136.67	1.21
SCReAM	10	0.22	136.67	0.89
WebRTC media	9	1.96	140.07	1.13
Sprout	10	0.38	139.69	0.97
TaoVA-100x	10	124.55	136.61	0.95
TCP Vegas	10	26.84	139.41	0.64
Verus	10	143.65	203.23	1.66
Copa	9	65.78	136.55	0.84
Indigo	10	140.72	139.14	0.98
Indigo-calib	9	124.09	139.70	0.95

Run 1: Statistics of TCP BBR

Start at: 2017-11-21 07:57:59

End at: 2017-11-21 07:58:29

Below is generated by plot.py at 2017-11-21 11:39:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.57 Mbit/s

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

Loss rate: 0.97%

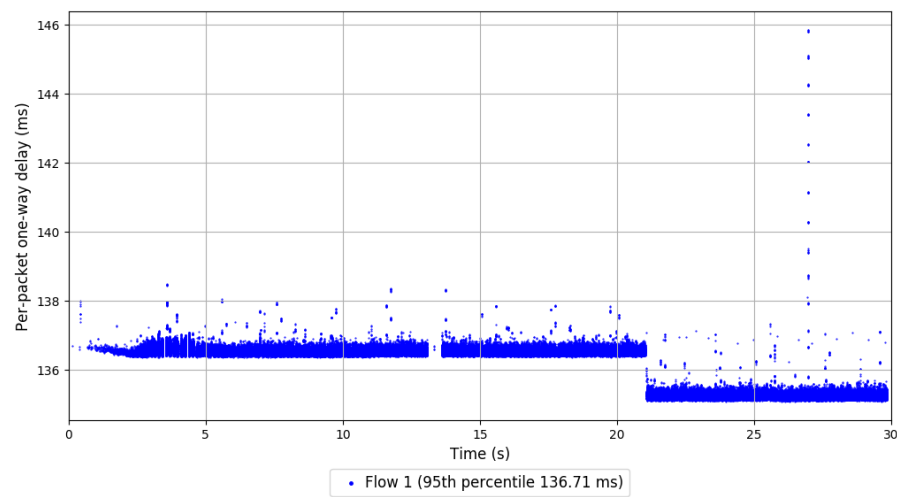
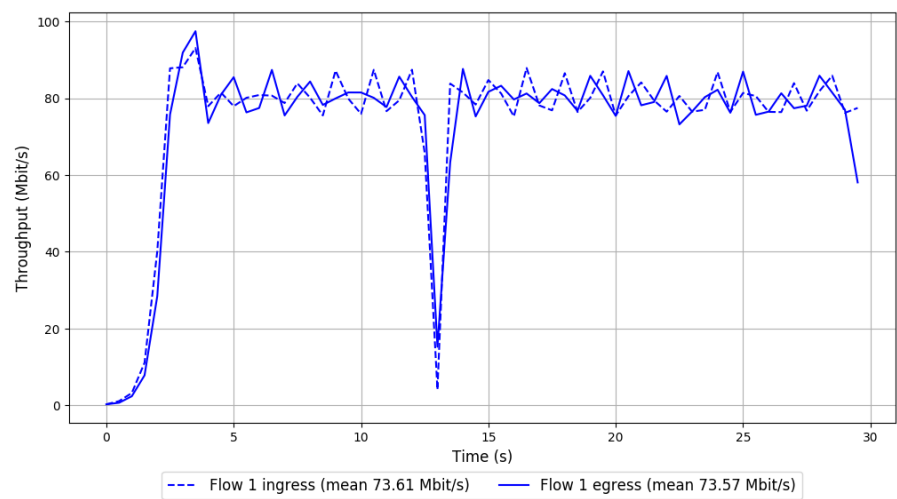
-- Flow 1:

Average throughput: 73.57 Mbit/s

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

Loss rate: 0.97%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-21 08:09:04

End at: 2017-11-21 08:09:34

Below is generated by plot.py at 2017-11-21 11:39:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.70 Mbit/s

95th percentile per-packet one-way delay: 136.769 ms

Loss rate: 0.98%

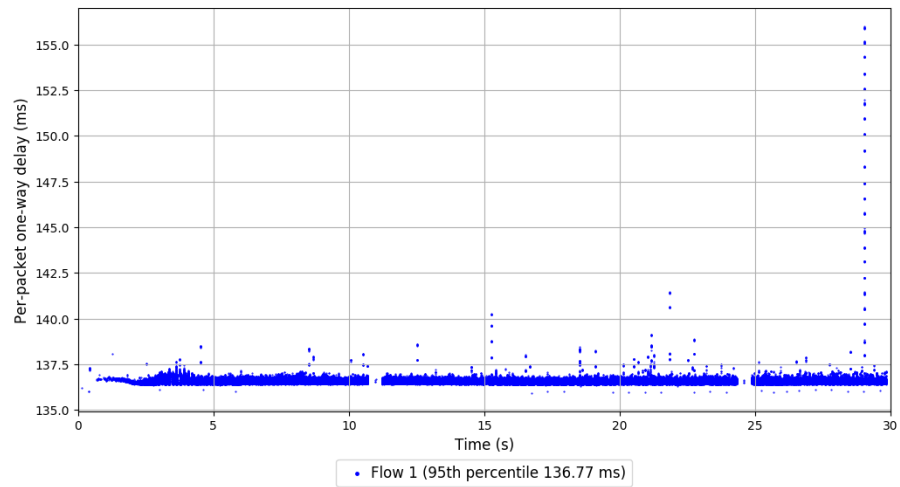
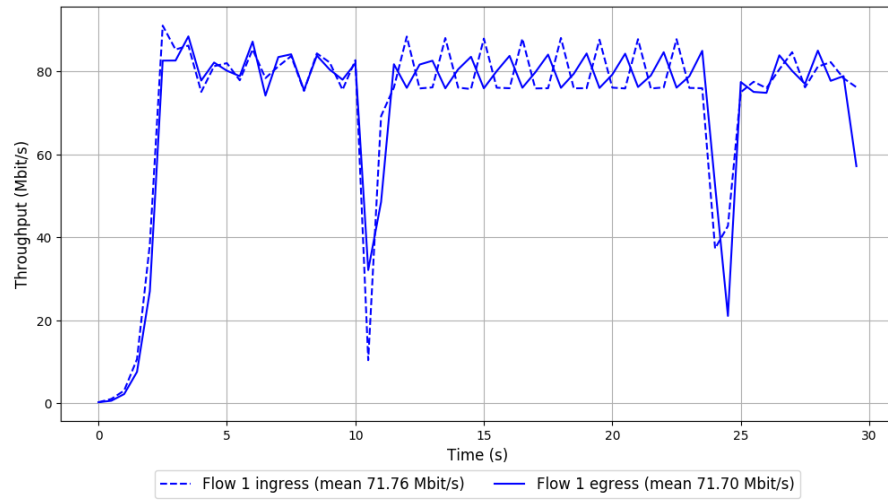
-- Flow 1:

Average throughput: 71.70 Mbit/s

95th percentile per-packet one-way delay: 136.769 ms

Loss rate: 0.98%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-21 08:20:44

End at: 2017-11-21 08:21:14

Below is generated by plot.py at 2017-11-21 11:39:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.06 Mbit/s

95th percentile per-packet one-way delay: 136.768 ms

Loss rate: 0.98%

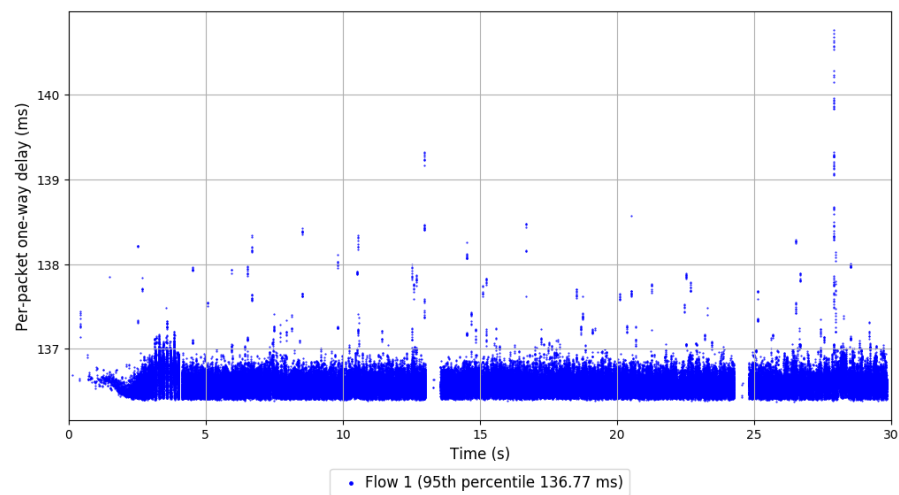
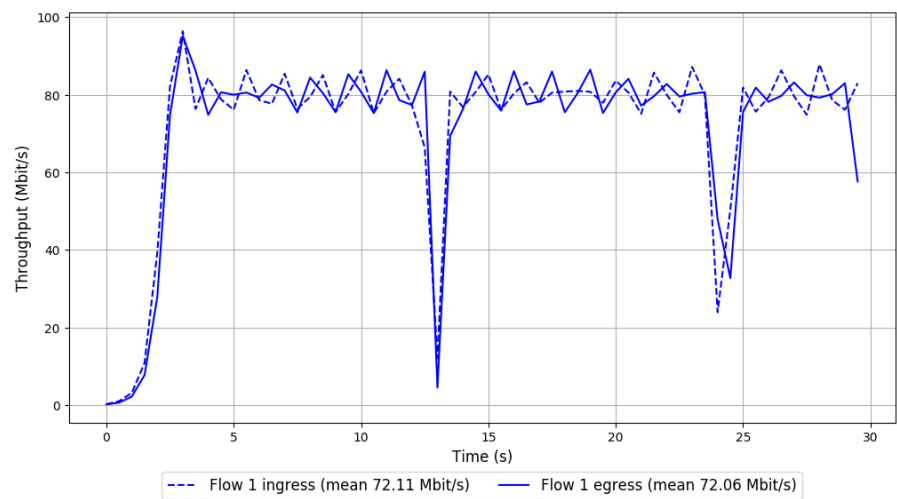
-- Flow 1:

Average throughput: 72.06 Mbit/s

95th percentile per-packet one-way delay: 136.768 ms

Loss rate: 0.98%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-21 08:32:24

End at: 2017-11-21 08:32:54

Below is generated by plot.py at 2017-11-21 11:39:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.35 Mbit/s

95th percentile per-packet one-way delay: 136.551 ms

Loss rate: 0.97%

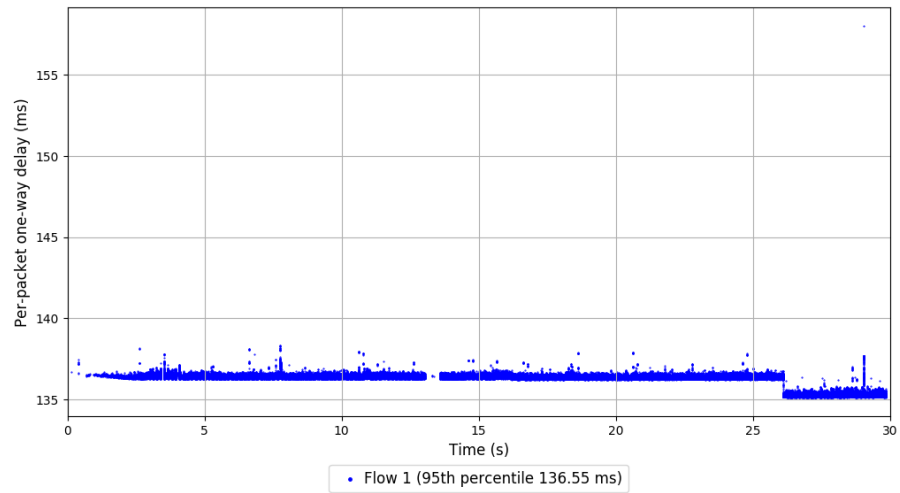
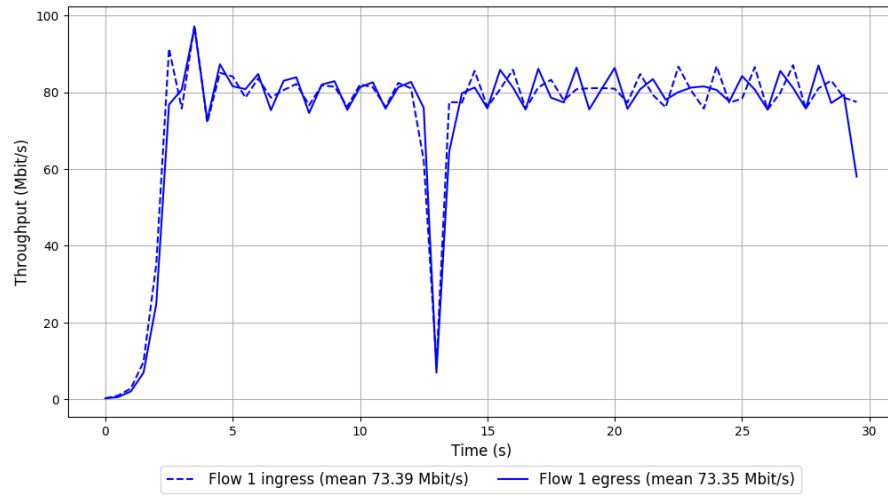
-- Flow 1:

Average throughput: 73.35 Mbit/s

95th percentile per-packet one-way delay: 136.551 ms

Loss rate: 0.97%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-21 08:43:54

End at: 2017-11-21 08:44:24

Below is generated by plot.py at 2017-11-21 11:39:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.67 Mbit/s

95th percentile per-packet one-way delay: 136.554 ms

Loss rate: 0.96%

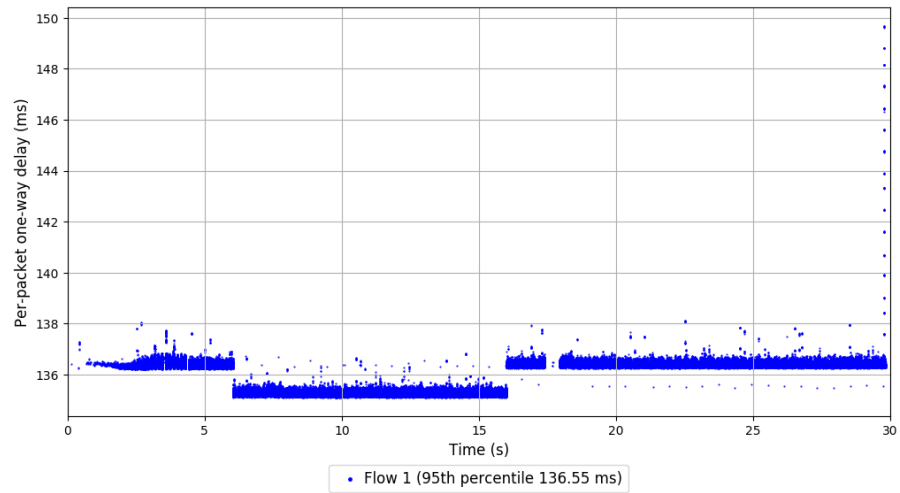
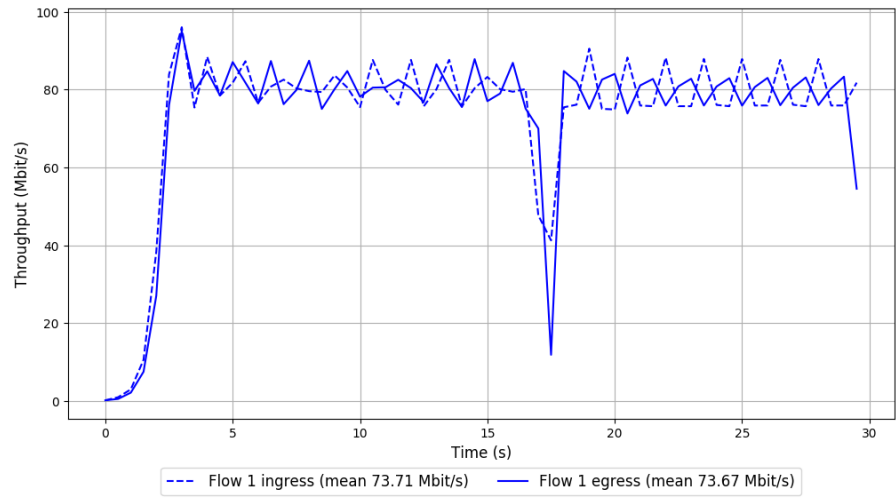
-- Flow 1:

Average throughput: 73.67 Mbit/s

95th percentile per-packet one-way delay: 136.554 ms

Loss rate: 0.96%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-21 08:55:01

End at: 2017-11-21 08:55:31

Below is generated by plot.py at 2017-11-21 11:39:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.82 Mbit/s

95th percentile per-packet one-way delay: 136.584 ms

Loss rate: 1.09%

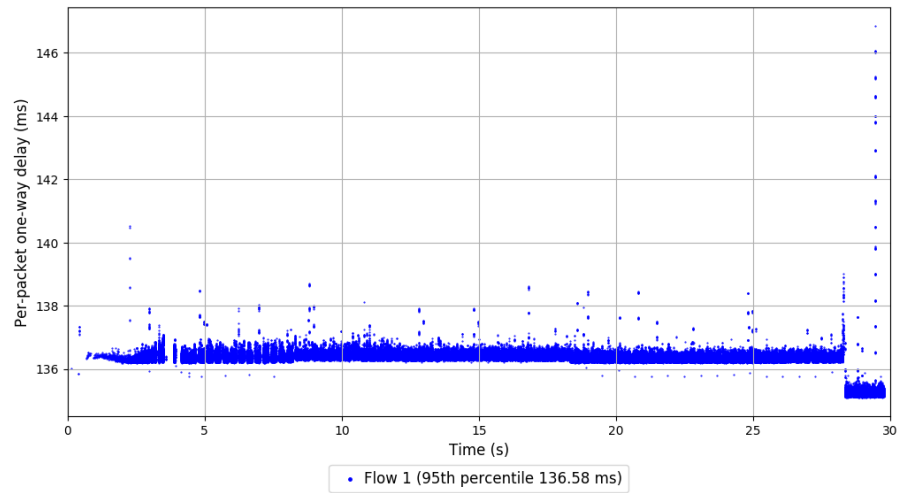
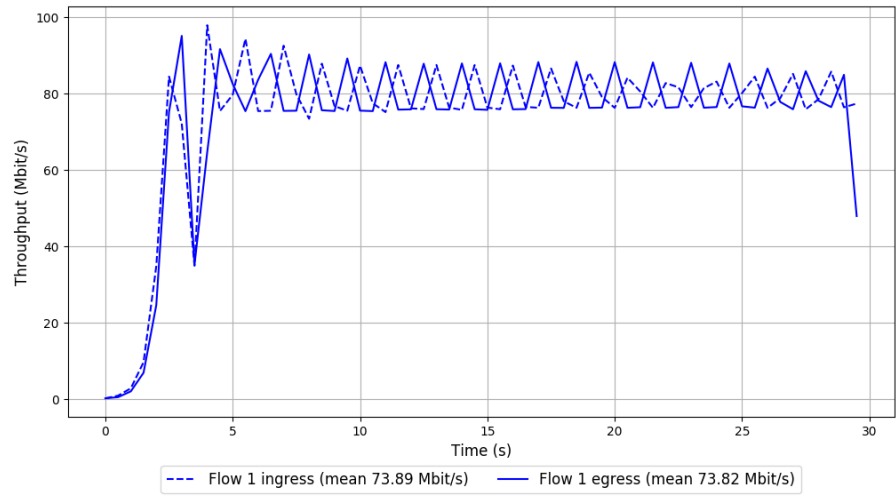
-- Flow 1:

Average throughput: 73.82 Mbit/s

95th percentile per-packet one-way delay: 136.584 ms

Loss rate: 1.09%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

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

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

Below is generated by plot.py at 2017-11-21 11:39:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.92 Mbit/s

95th percentile per-packet one-way delay: 136.577 ms

Loss rate: 1.04%

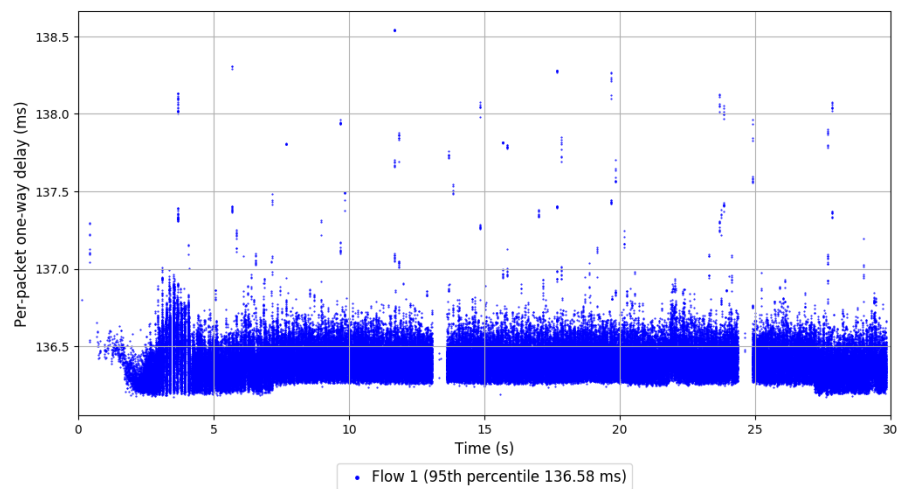
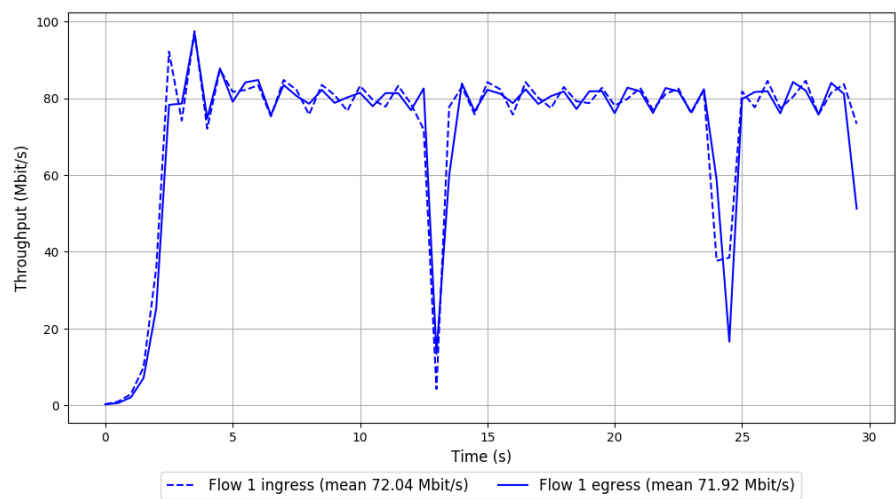
-- Flow 1:

Average throughput: 71.92 Mbit/s

95th percentile per-packet one-way delay: 136.577 ms

Loss rate: 1.04%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

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

End at: 2017-11-21 09:18:22

Below is generated by plot.py at 2017-11-21 11:39:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.67 Mbit/s

95th percentile per-packet one-way delay: 136.483 ms

Loss rate: 1.05%

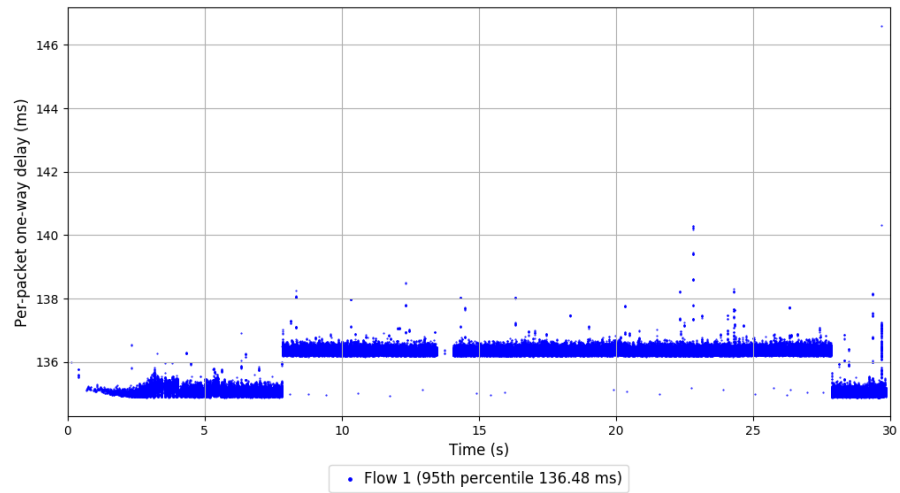
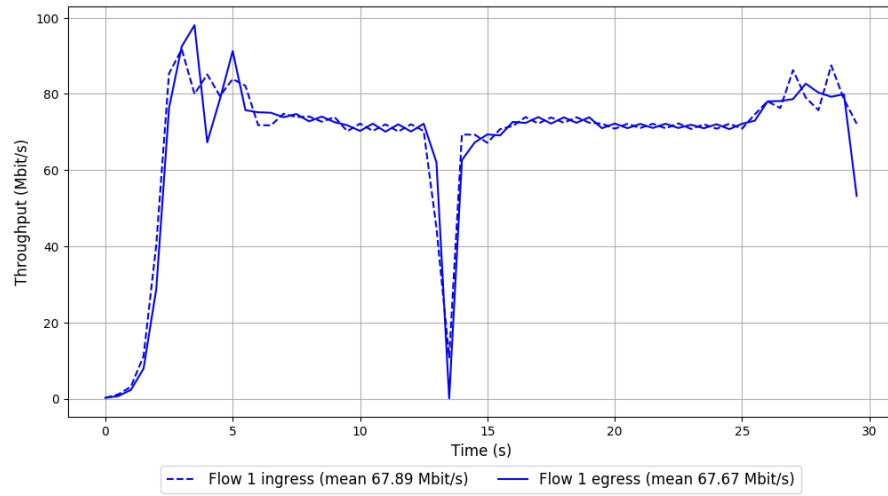
-- Flow 1:

Average throughput: 67.67 Mbit/s

95th percentile per-packet one-way delay: 136.483 ms

Loss rate: 1.05%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-21 09:29:17

End at: 2017-11-21 09:29:47

Below is generated by plot.py at 2017-11-21 11:41:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.67 Mbit/s

95th percentile per-packet one-way delay: 135.672 ms

Loss rate: 0.97%

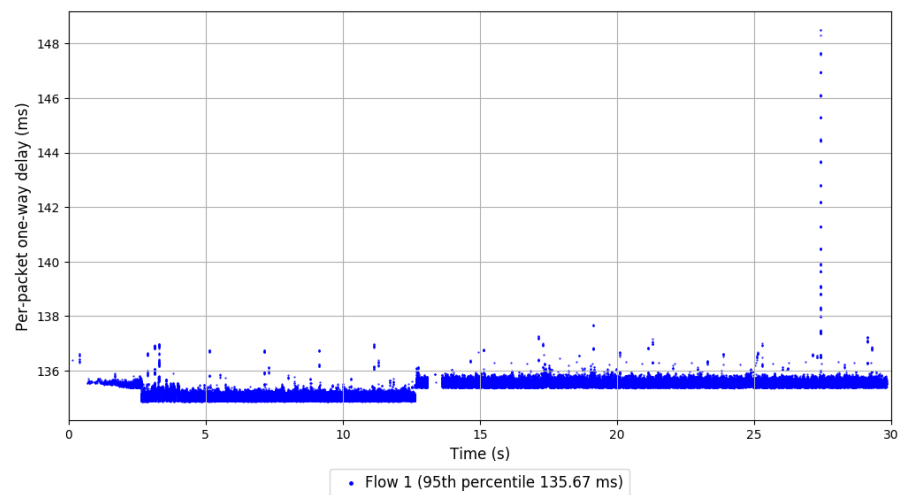
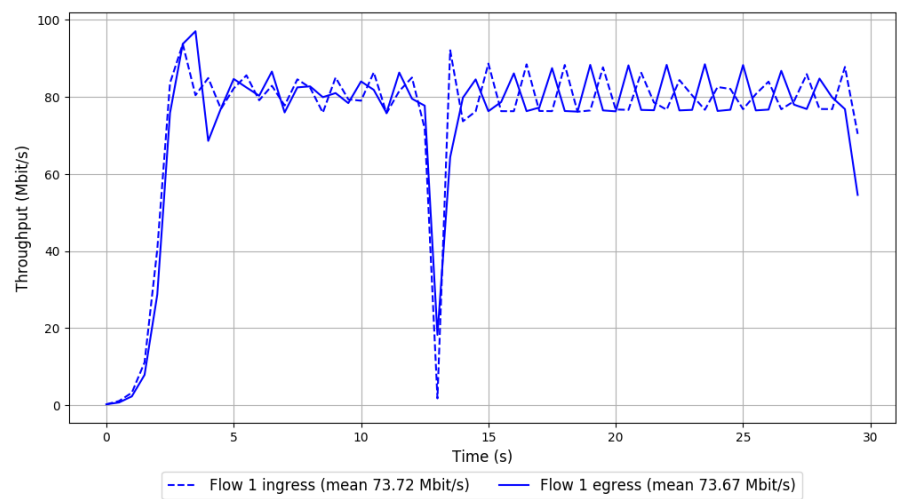
-- Flow 1:

Average throughput: 73.67 Mbit/s

95th percentile per-packet one-way delay: 135.672 ms

Loss rate: 0.97%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-21 09:40:57

End at: 2017-11-21 09:41:27

Below is generated by plot.py at 2017-11-21 11:41:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.08 Mbit/s

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

Loss rate: 0.93%

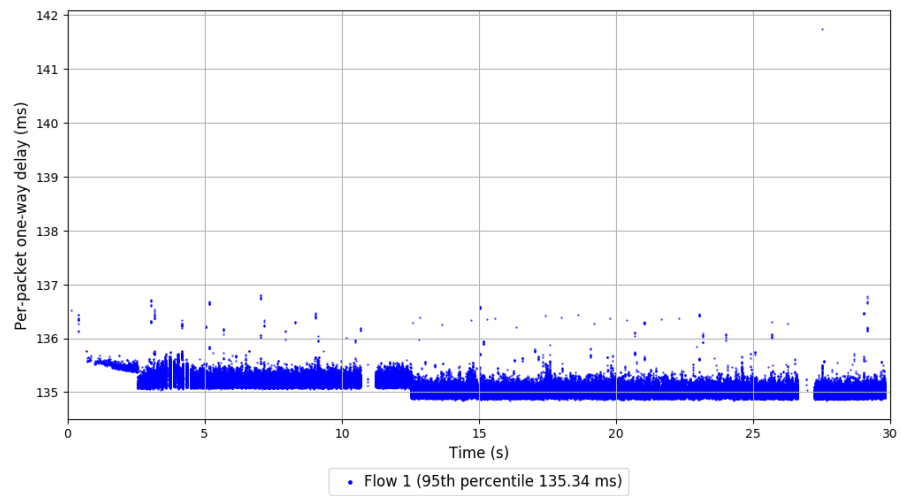
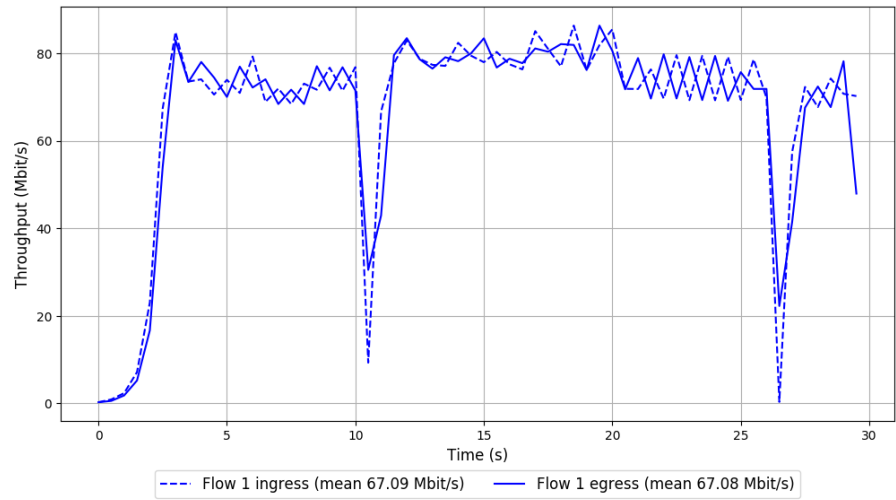
-- Flow 1:

Average throughput: 67.08 Mbit/s

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

Loss rate: 0.93%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-21 07:56:09

End at: 2017-11-21 07:56:39

Below is generated by plot.py at 2017-11-21 11:41:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.78 Mbit/s

95th percentile per-packet one-way delay: 141.826 ms

Loss rate: 0.89%

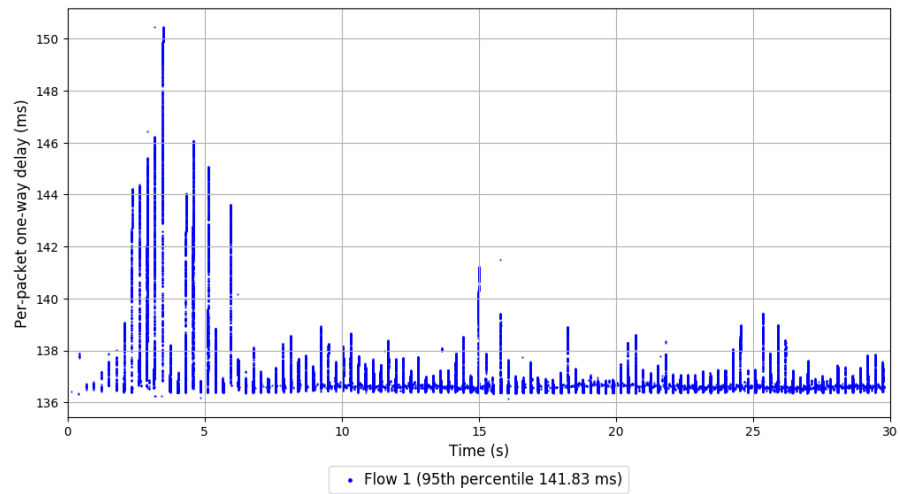
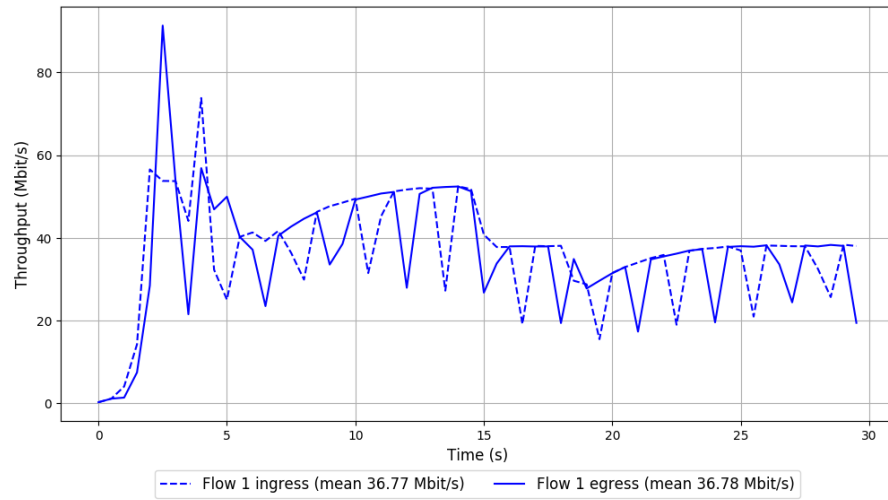
-- Flow 1:

Average throughput: 36.78 Mbit/s

95th percentile per-packet one-way delay: 141.826 ms

Loss rate: 0.89%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-21 08:07:33

End at: 2017-11-21 08:08:03

Below is generated by plot.py at 2017-11-21 11:41:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.17 Mbit/s

95th percentile per-packet one-way delay: 140.195 ms

Loss rate: 1.29%

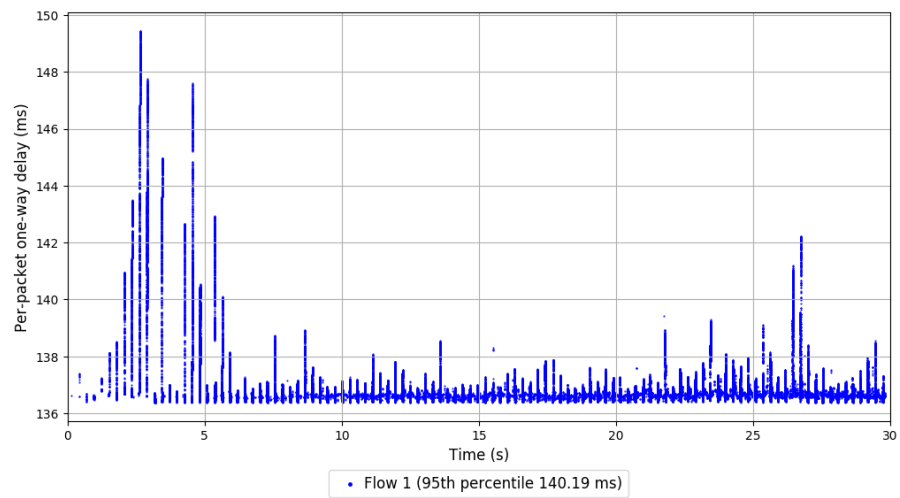
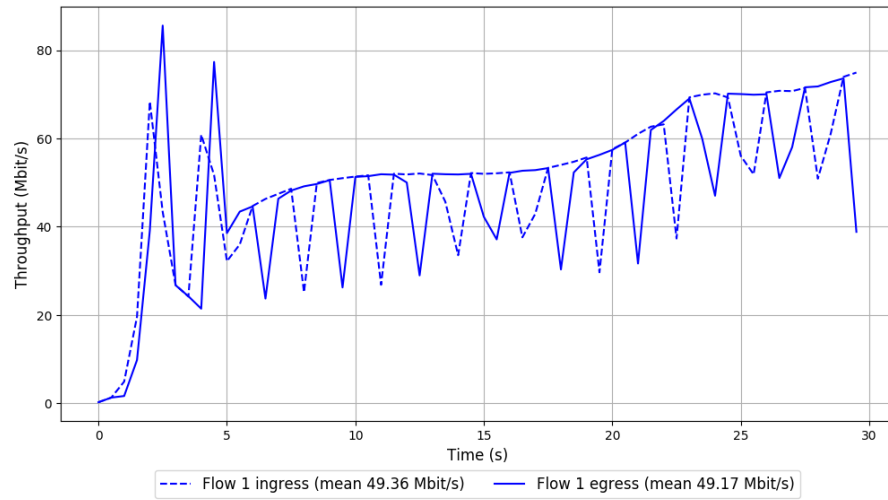
-- Flow 1:

Average throughput: 49.17 Mbit/s

95th percentile per-packet one-way delay: 140.195 ms

Loss rate: 1.29%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-21 08:18:54

End at: 2017-11-21 08:19:24

Below is generated by plot.py at 2017-11-21 11:41:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.23 Mbit/s

95th percentile per-packet one-way delay: 145.159 ms

Loss rate: 1.22%

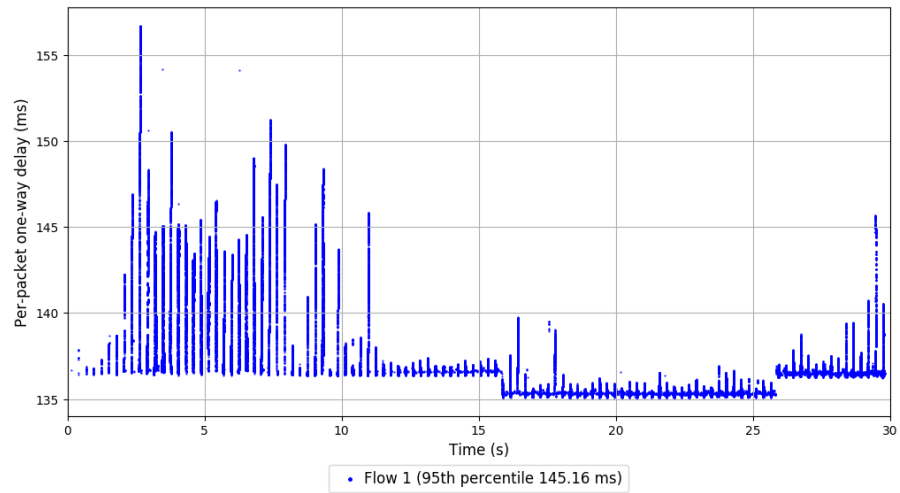
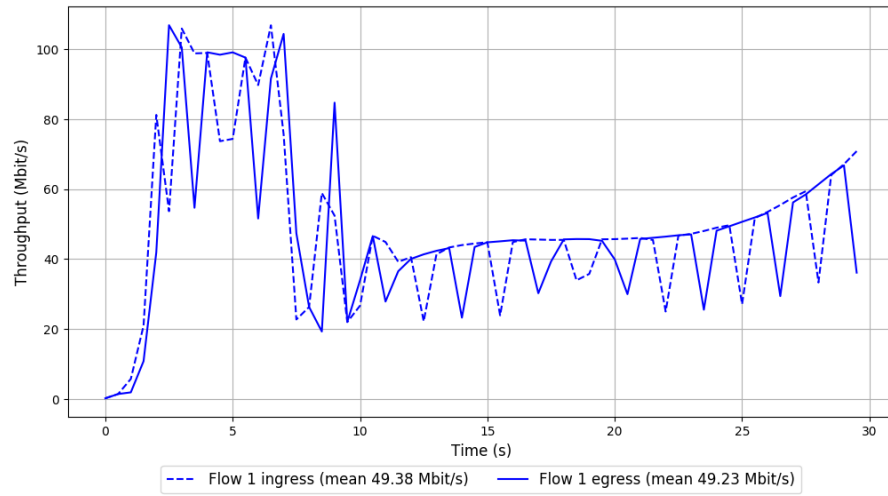
-- Flow 1:

Average throughput: 49.23 Mbit/s

95th percentile per-packet one-way delay: 145.159 ms

Loss rate: 1.22%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-21 08:30:33

End at: 2017-11-21 08:31:03

Below is generated by plot.py at 2017-11-21 11:41:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.01 Mbit/s

95th percentile per-packet one-way delay: 142.534 ms

Loss rate: 0.86%

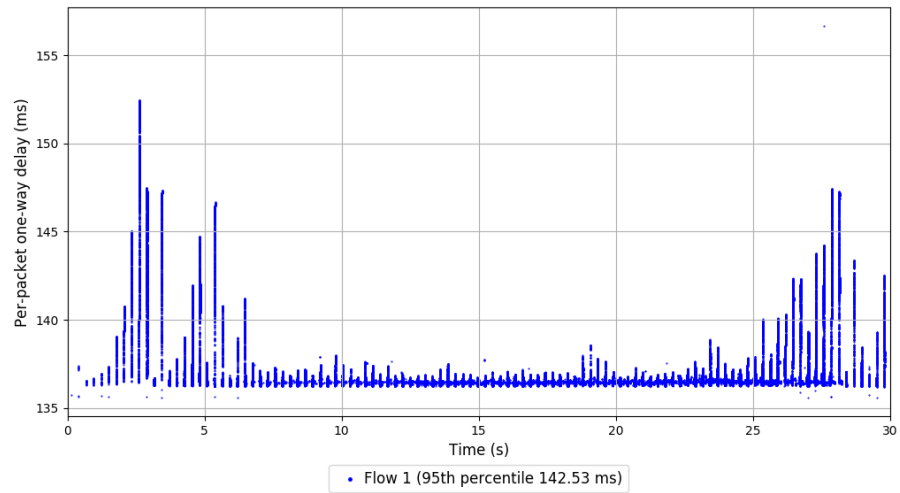
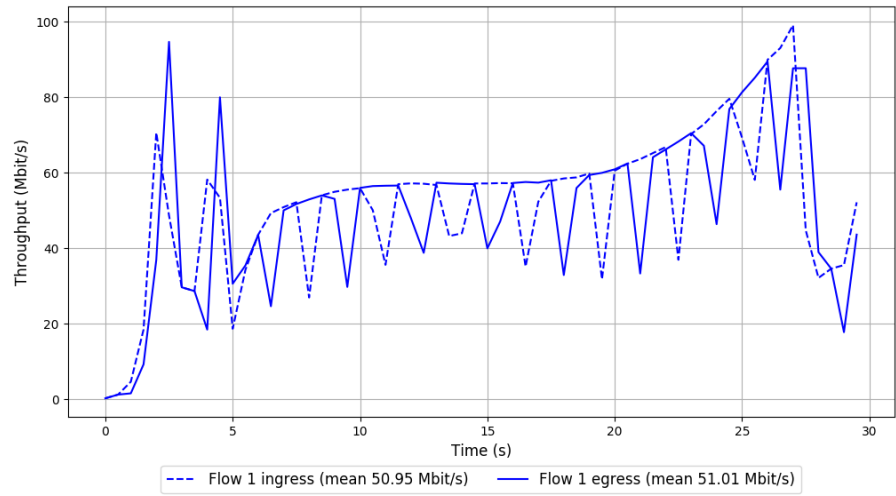
-- Flow 1:

Average throughput: 51.01 Mbit/s

95th percentile per-packet one-way delay: 142.534 ms

Loss rate: 0.86%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-21 08:42:03

End at: 2017-11-21 08:42:33

Below is generated by plot.py at 2017-11-21 11:41:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.20 Mbit/s

95th percentile per-packet one-way delay: 145.115 ms

Loss rate: 1.53%

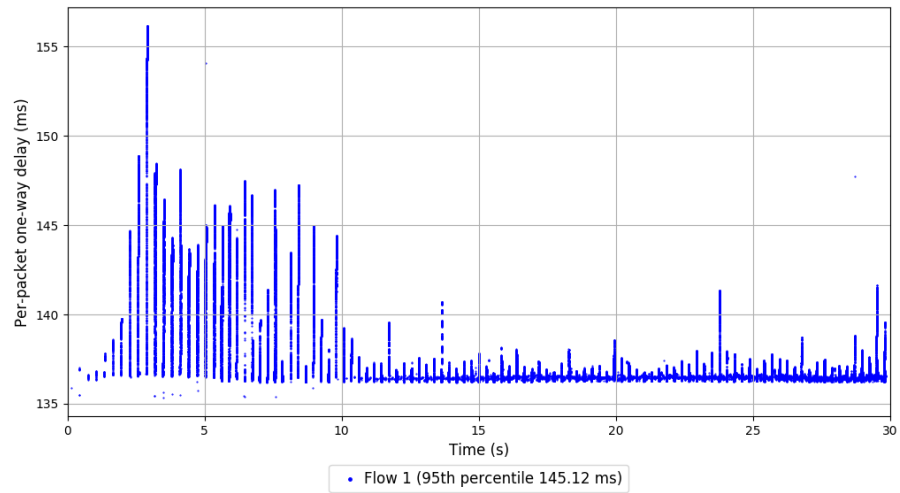
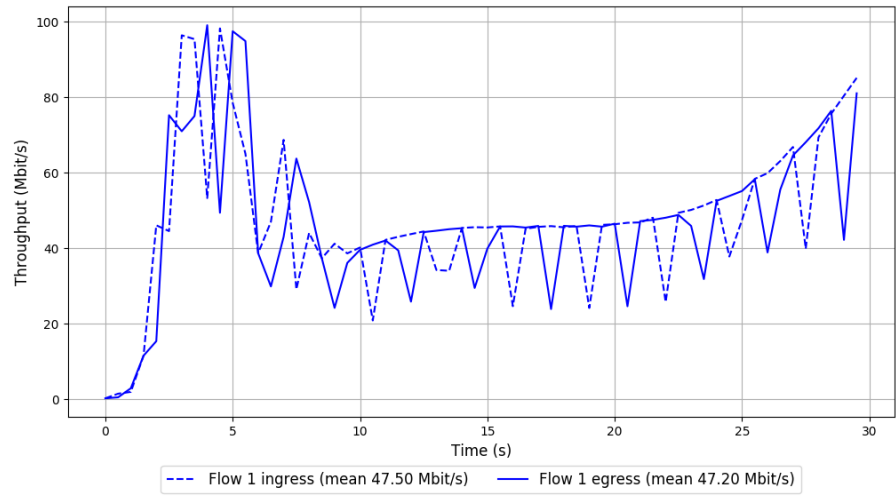
-- Flow 1:

Average throughput: 47.20 Mbit/s

95th percentile per-packet one-way delay: 145.115 ms

Loss rate: 1.53%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-21 08:53:30

End at: 2017-11-21 08:54:00

Below is generated by plot.py at 2017-11-21 11:41:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.11 Mbit/s

95th percentile per-packet one-way delay: 139.547 ms

Loss rate: 0.59%

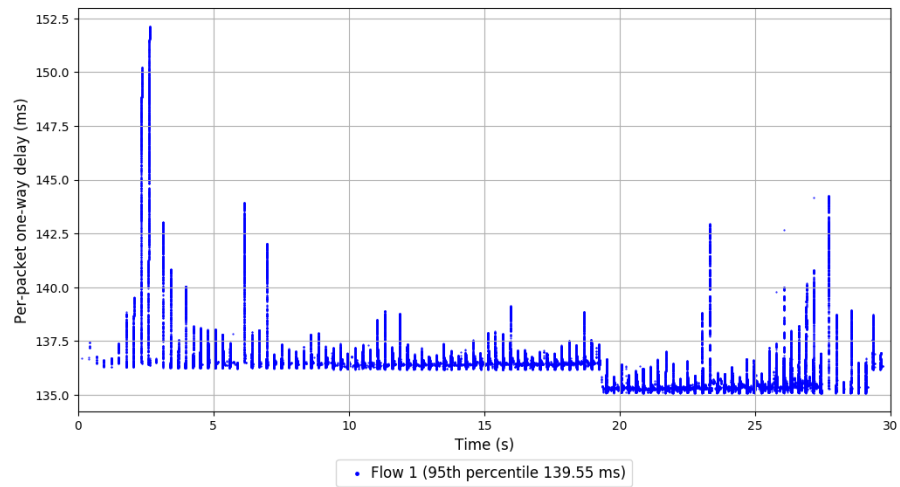
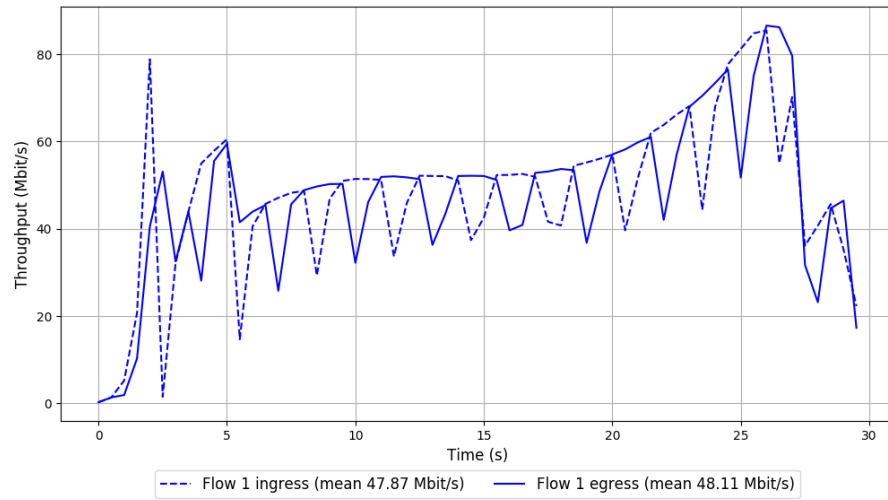
-- Flow 1:

Average throughput: 48.11 Mbit/s

95th percentile per-packet one-way delay: 139.547 ms

Loss rate: 0.59%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-21 09:04:42

End at: 2017-11-21 09:05:12

Below is generated by plot.py at 2017-11-21 11:41:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.18 Mbit/s

95th percentile per-packet one-way delay: 142.757 ms

Loss rate: 1.24%

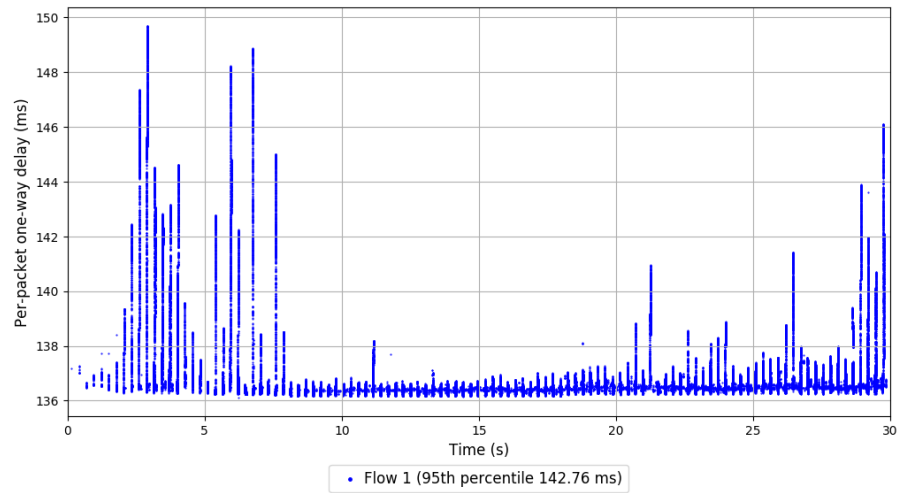
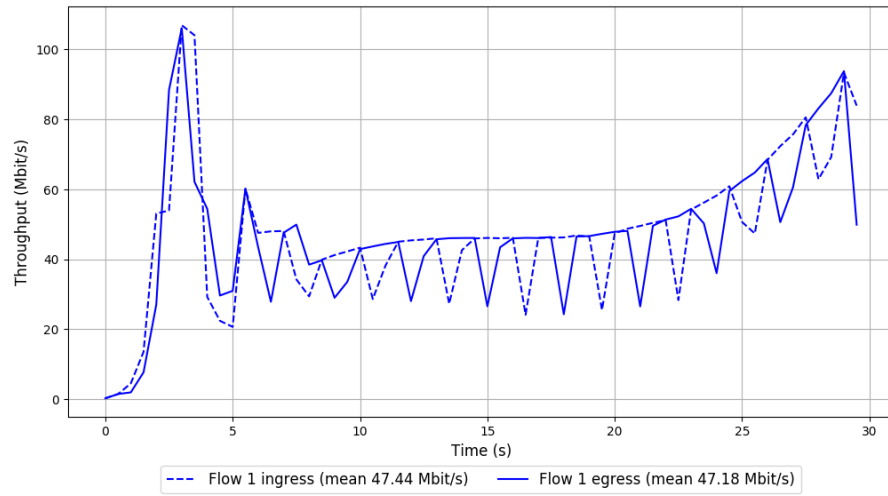
-- Flow 1:

Average throughput: 47.18 Mbit/s

95th percentile per-packet one-way delay: 142.757 ms

Loss rate: 1.24%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-21 09:16:01

End at: 2017-11-21 09:16:31

Below is generated by plot.py at 2017-11-21 11:41:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.76 Mbit/s

95th percentile per-packet one-way delay: 142.848 ms

Loss rate: 1.02%

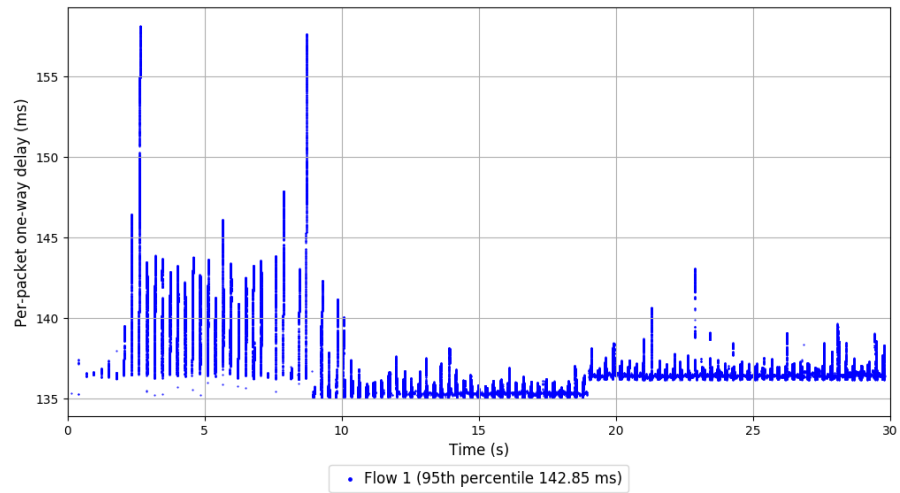
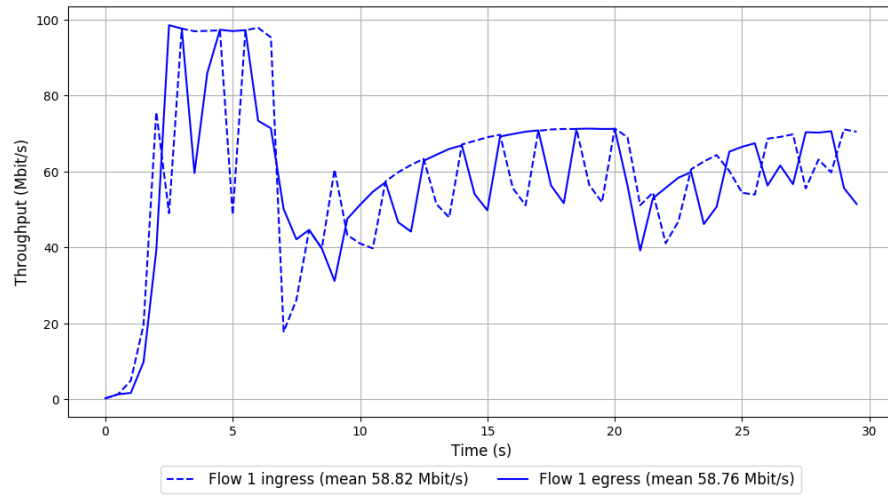
-- Flow 1:

Average throughput: 58.76 Mbit/s

95th percentile per-packet one-way delay: 142.848 ms

Loss rate: 1.02%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-21 09:27:46

End at: 2017-11-21 09:28:16

Below is generated by plot.py at 2017-11-21 11:41:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.01 Mbit/s

95th percentile per-packet one-way delay: 144.283 ms

Loss rate: 1.43%

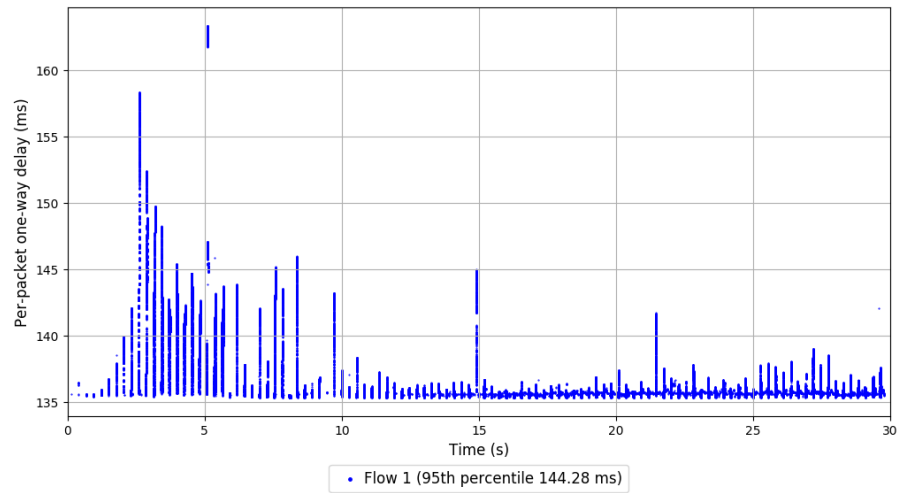
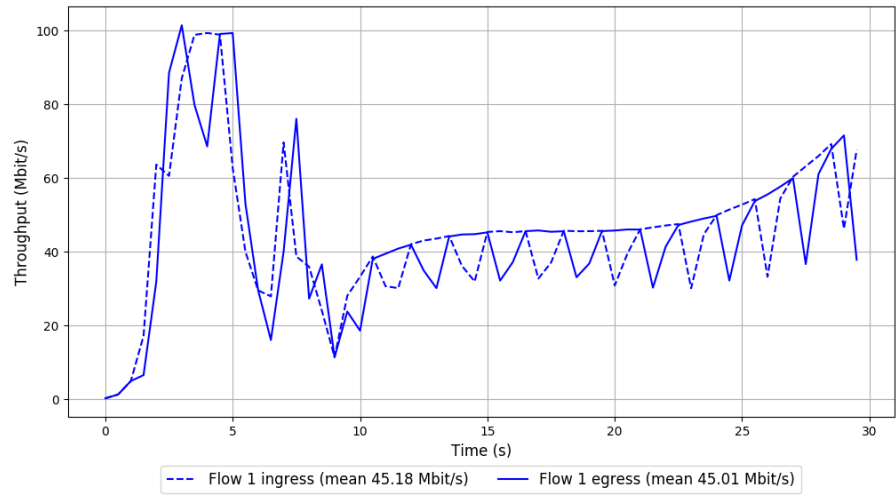
-- Flow 1:

Average throughput: 45.01 Mbit/s

95th percentile per-packet one-way delay: 144.283 ms

Loss rate: 1.43%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-21 09:39:13

End at: 2017-11-21 09:39:43

Below is generated by plot.py at 2017-11-21 11:41:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.93 Mbit/s

95th percentile per-packet one-way delay: 139.438 ms

Loss rate: 1.04%

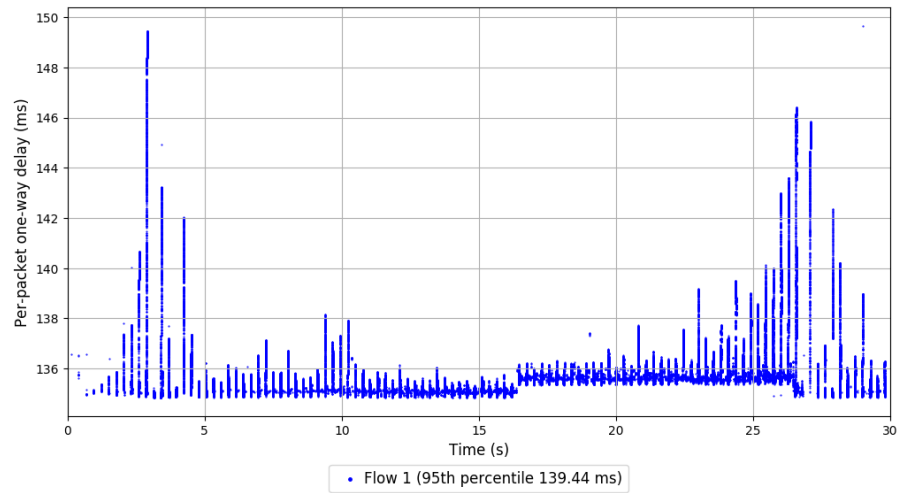
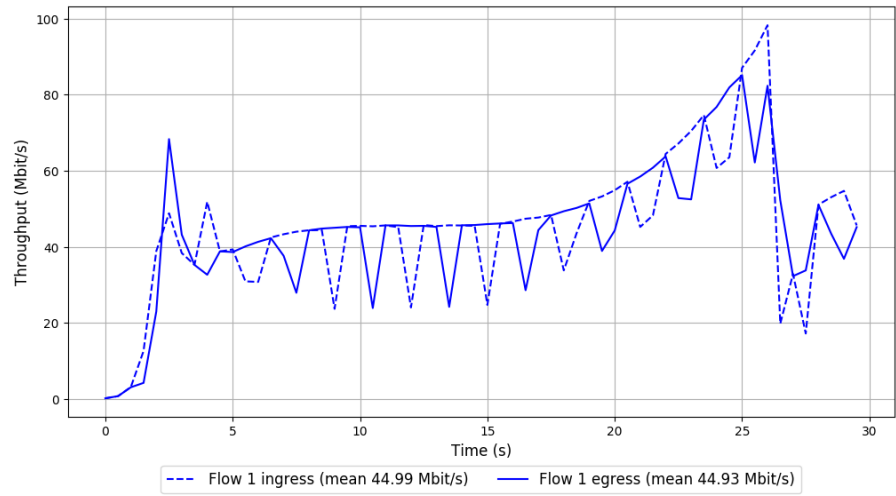
-- Flow 1:

Average throughput: 44.93 Mbit/s

95th percentile per-packet one-way delay: 139.438 ms

Loss rate: 1.04%

Run 10: Report of TCP Cubic — Data Link

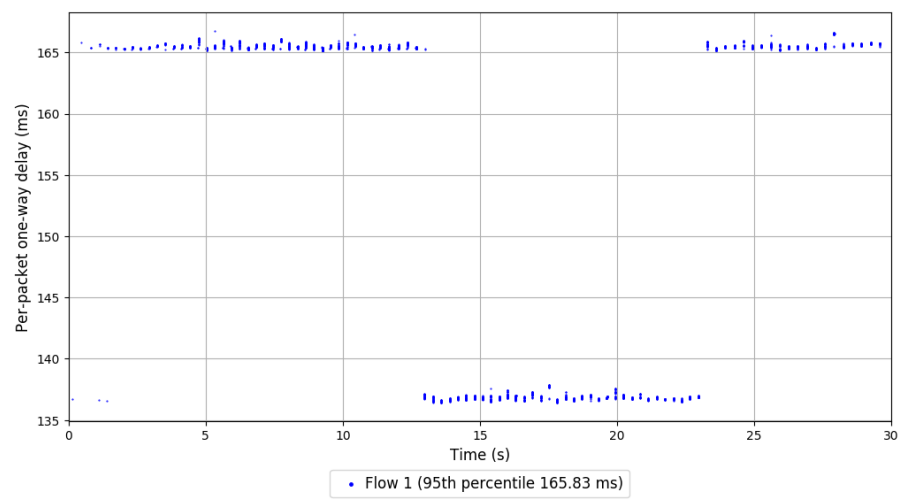
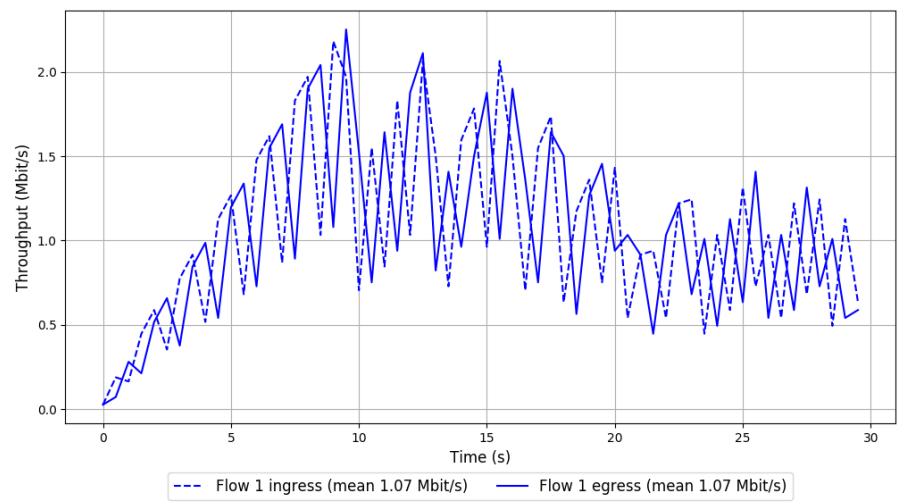


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-21 07:51:27
End at: 2017-11-21 07:51:57

# Below is generated by plot.py at 2017-11-21 11:41:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.07 Mbit/s
95th percentile per-packet one-way delay: 165.830 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 1.07 Mbit/s
95th percentile per-packet one-way delay: 165.830 ms
Loss rate: 1.03%
```


Run 1: Report of LEDBAT — Data Link

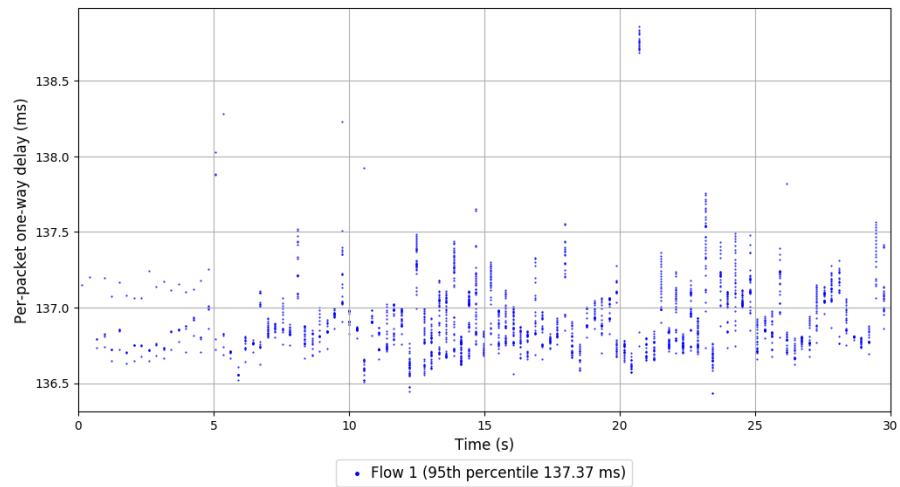
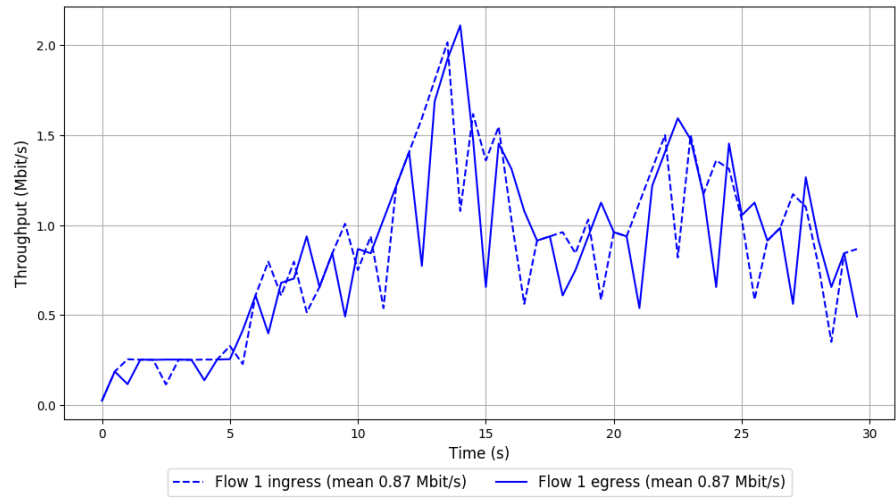


```
Run 2: Statistics of LEDBAT

Start at: 2017-11-21 08:02:42
End at: 2017-11-21 08:03:12

# Below is generated by plot.py at 2017-11-21 11:41:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.87 Mbit/s
95th percentile per-packet one-way delay: 137.371 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 0.87 Mbit/s
95th percentile per-packet one-way delay: 137.371 ms
Loss rate: 1.04%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-21 08:13:59

End at: 2017-11-21 08:14:29

Below is generated by plot.py at 2017-11-21 11:41:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.96 Mbit/s

95th percentile per-packet one-way delay: 137.349 ms

Loss rate: 1.06%

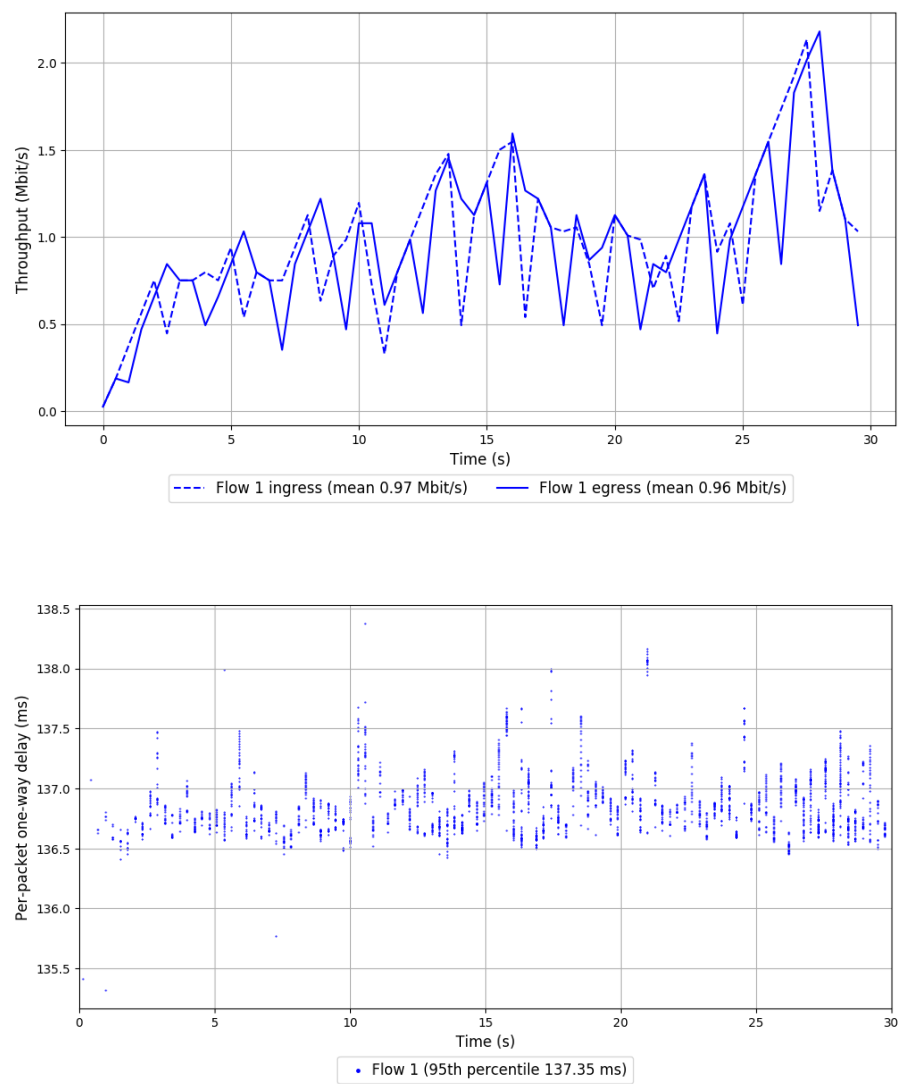
-- Flow 1:

Average throughput: 0.96 Mbit/s

95th percentile per-packet one-way delay: 137.349 ms

Loss rate: 1.06%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-21 08:25:42

End at: 2017-11-21 08:26:12

Below is generated by plot.py at 2017-11-21 11:41:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.01 Mbit/s

95th percentile per-packet one-way delay: 136.996 ms

Loss rate: 0.78%

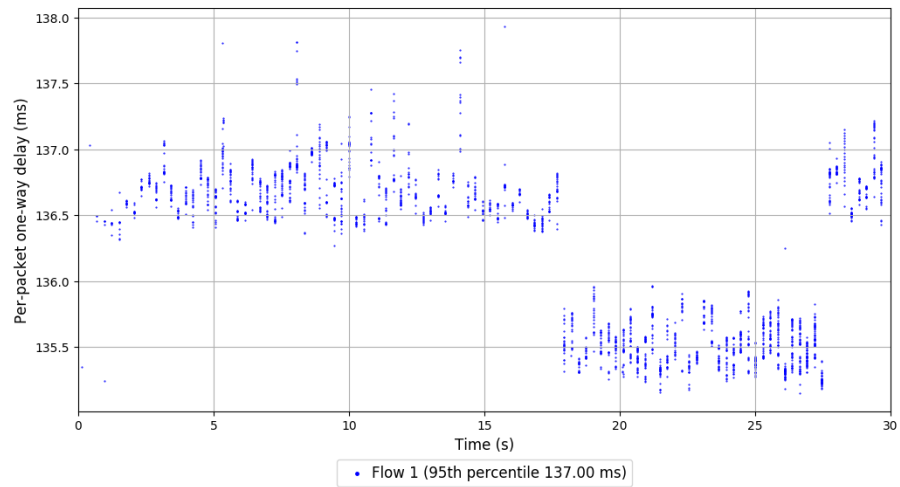
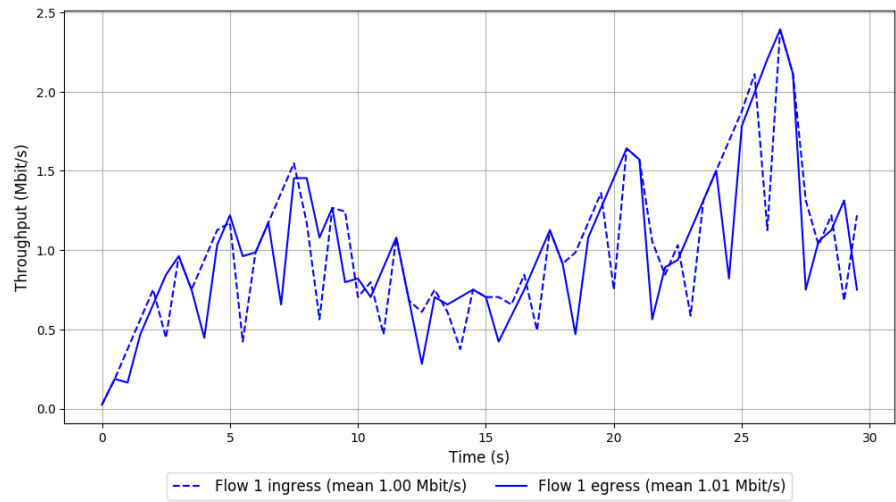
-- Flow 1:

Average throughput: 1.01 Mbit/s

95th percentile per-packet one-way delay: 136.996 ms

Loss rate: 0.78%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-21 08:37:10

End at: 2017-11-21 08:37:40

Below is generated by plot.py at 2017-11-21 11:41:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 137.056 ms

Loss rate: 0.97%

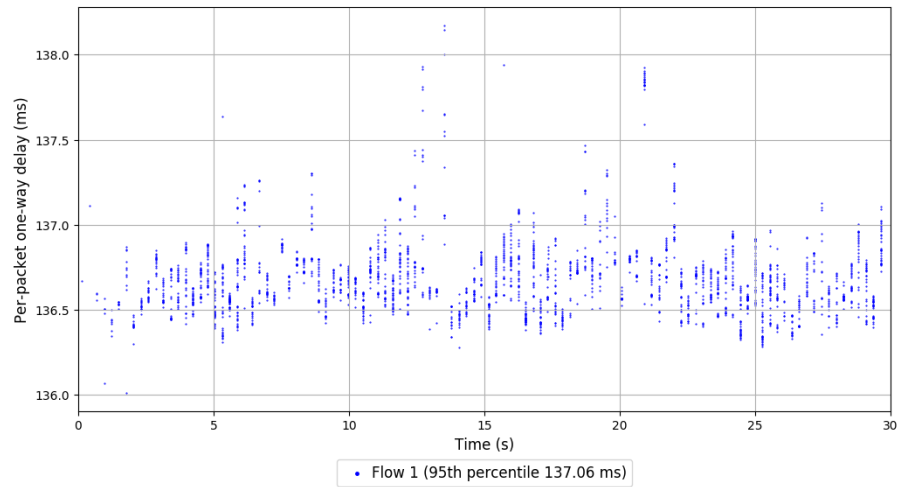
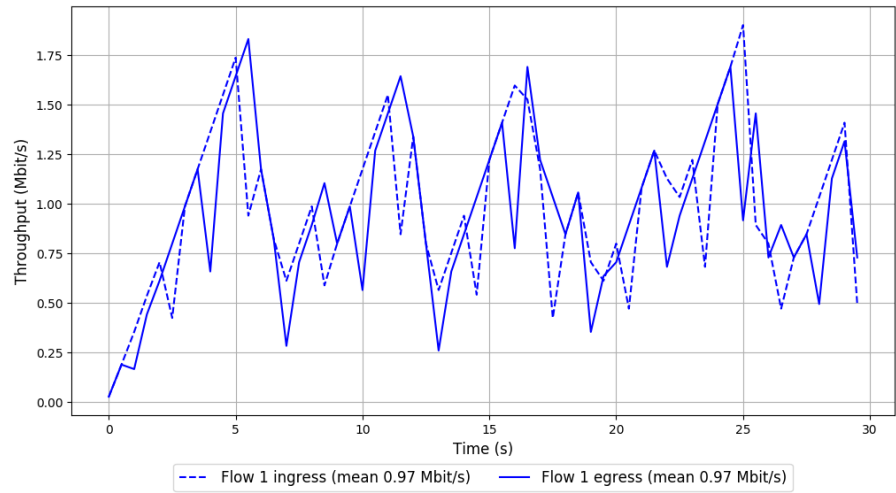
-- Flow 1:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 137.056 ms

Loss rate: 0.97%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-21 08:48:36

End at: 2017-11-21 08:49:06

Below is generated by plot.py at 2017-11-21 11:41:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 137.300 ms

Loss rate: 1.44%

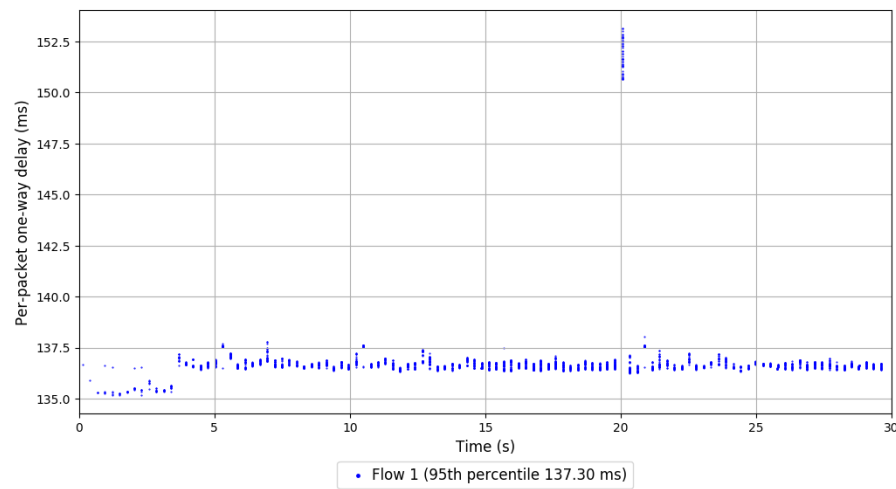
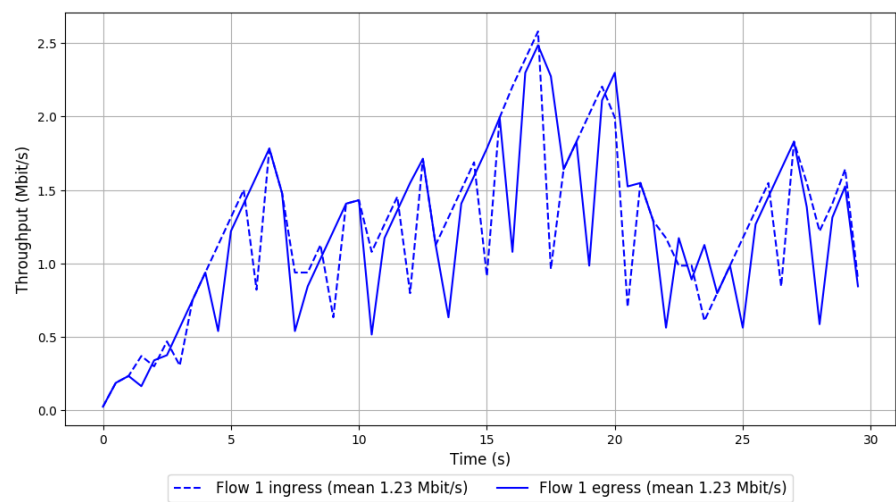
-- Flow 1:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 137.300 ms

Loss rate: 1.44%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-21 08:59:50

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

Below is generated by plot.py at 2017-11-21 11:41:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 137.211 ms

Loss rate: 1.21%

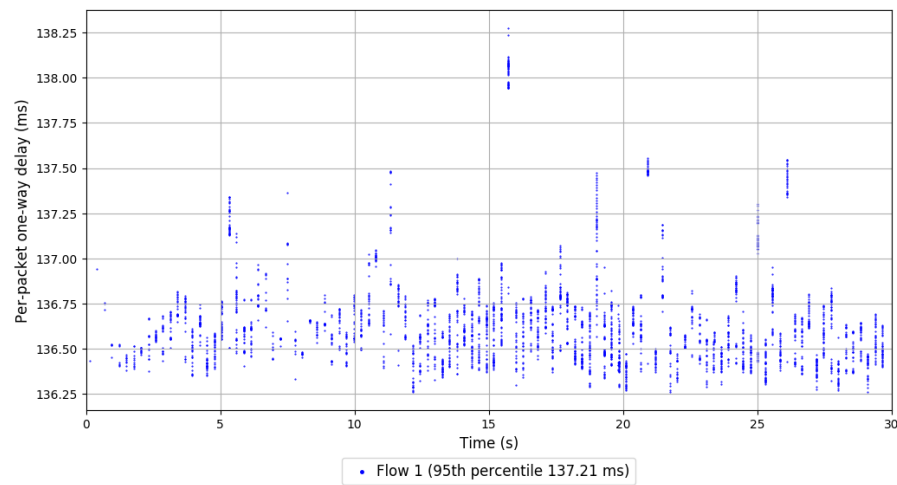
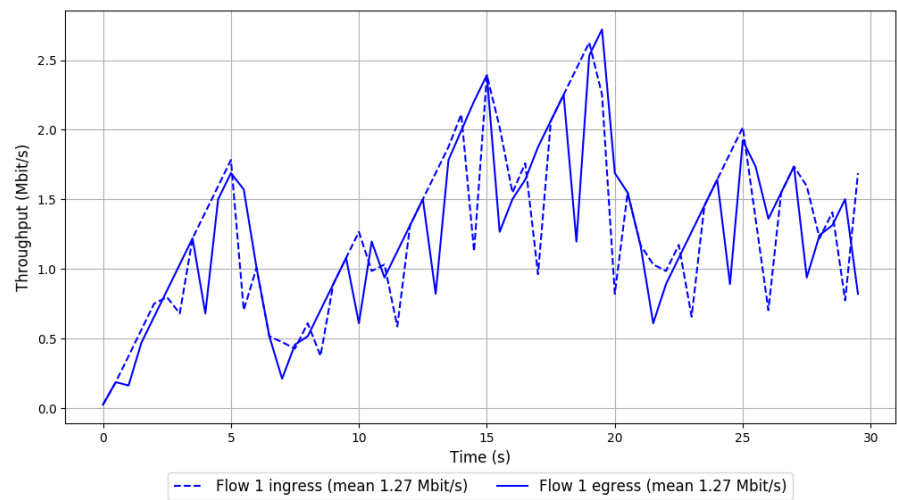
-- Flow 1:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 137.211 ms

Loss rate: 1.21%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

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

End at: 2017-11-21 09:11:40

Below is generated by plot.py at 2017-11-21 11:41:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 137.698 ms

Loss rate: 1.29%

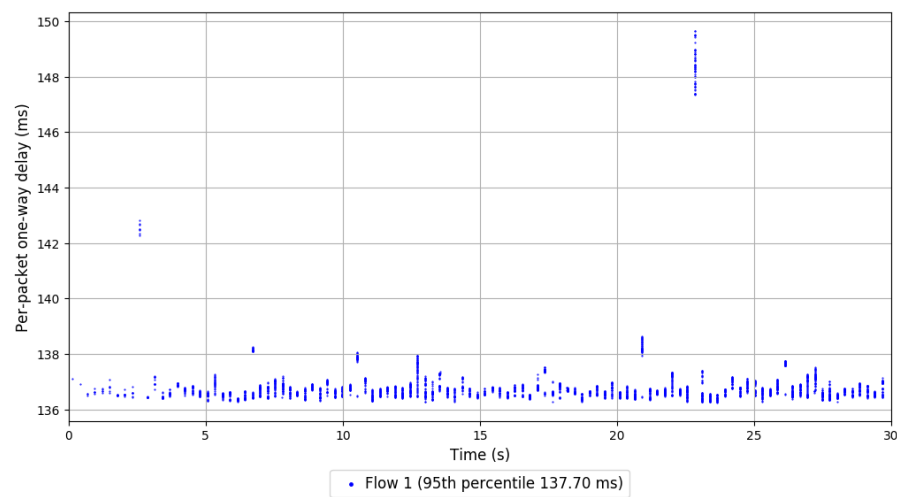
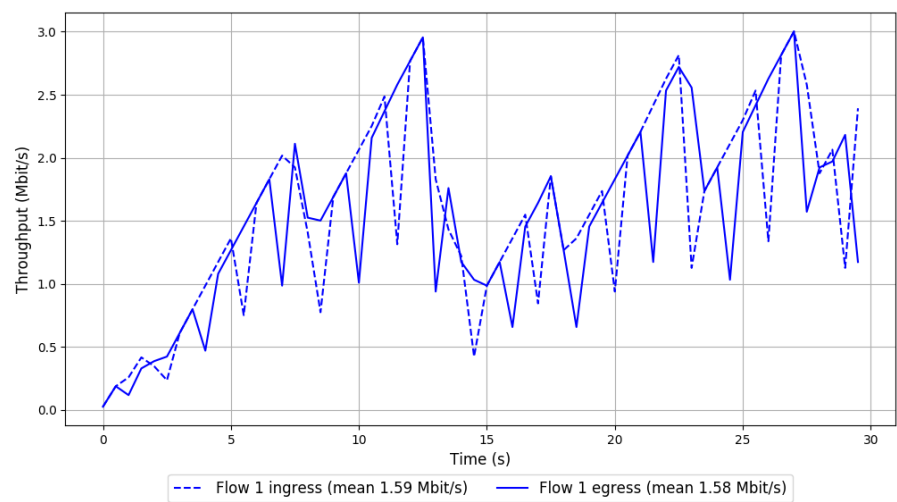
-- Flow 1:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 137.698 ms

Loss rate: 1.29%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-21 09:22:51

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

Below is generated by plot.py at 2017-11-21 11:41:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.01 Mbit/s

95th percentile per-packet one-way delay: 136.715 ms

Loss rate: 0.82%

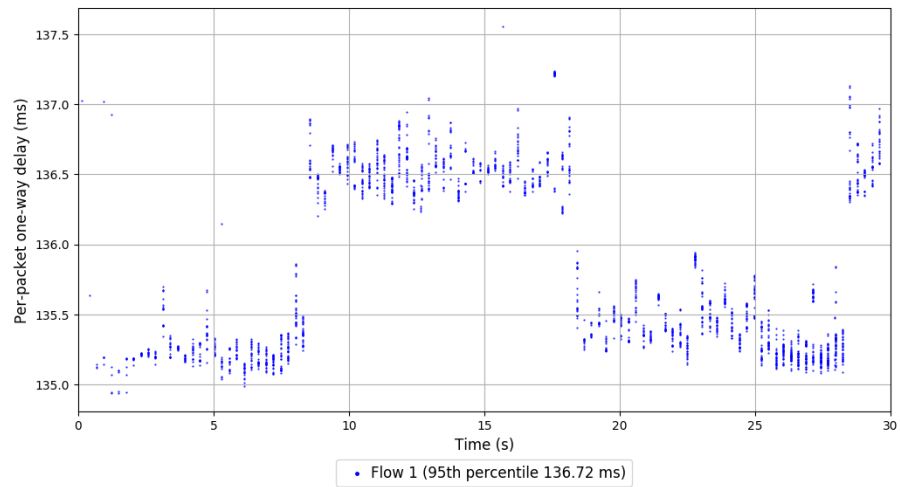
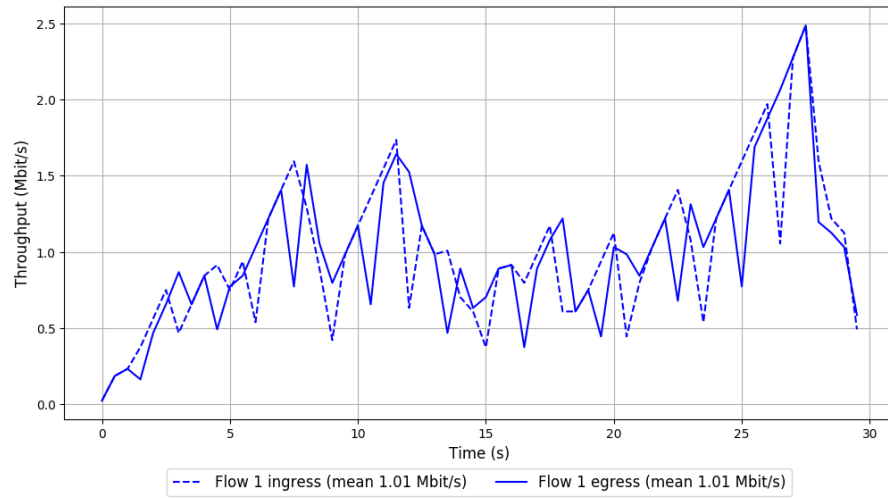
-- Flow 1:

Average throughput: 1.01 Mbit/s

95th percentile per-packet one-way delay: 136.715 ms

Loss rate: 0.82%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-21 09:34:20

End at: 2017-11-21 09:34:50

Below is generated by plot.py at 2017-11-21 11:41:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 136.127 ms

Loss rate: 0.85%

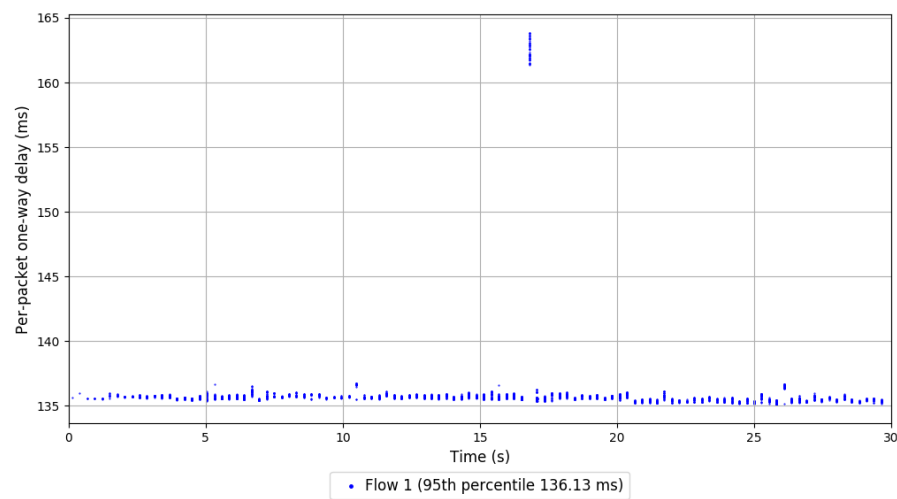
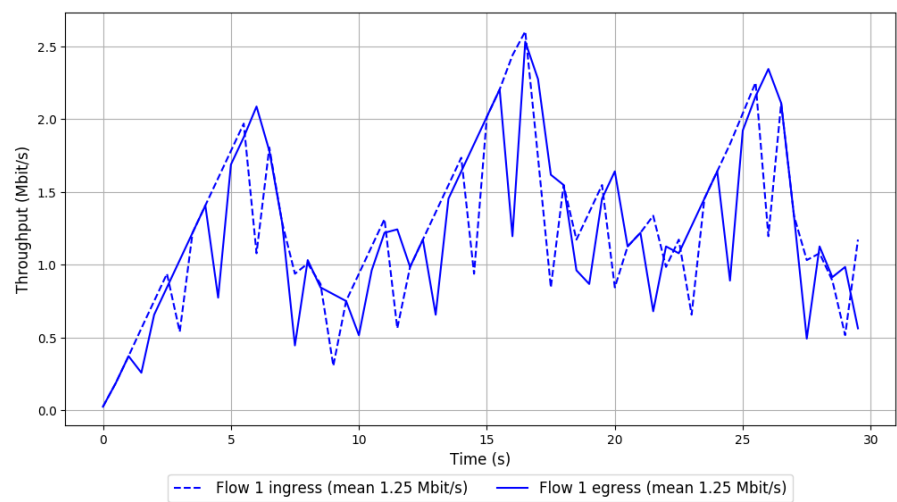
-- Flow 1:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 136.127 ms

Loss rate: 0.85%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2017-11-21 07:55:07

End at: 2017-11-21 07:55:37

Below is generated by plot.py at 2017-11-21 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 512.66 Mbit/s

95th percentile per-packet one-way delay: 312.935 ms

Loss rate: 5.57%

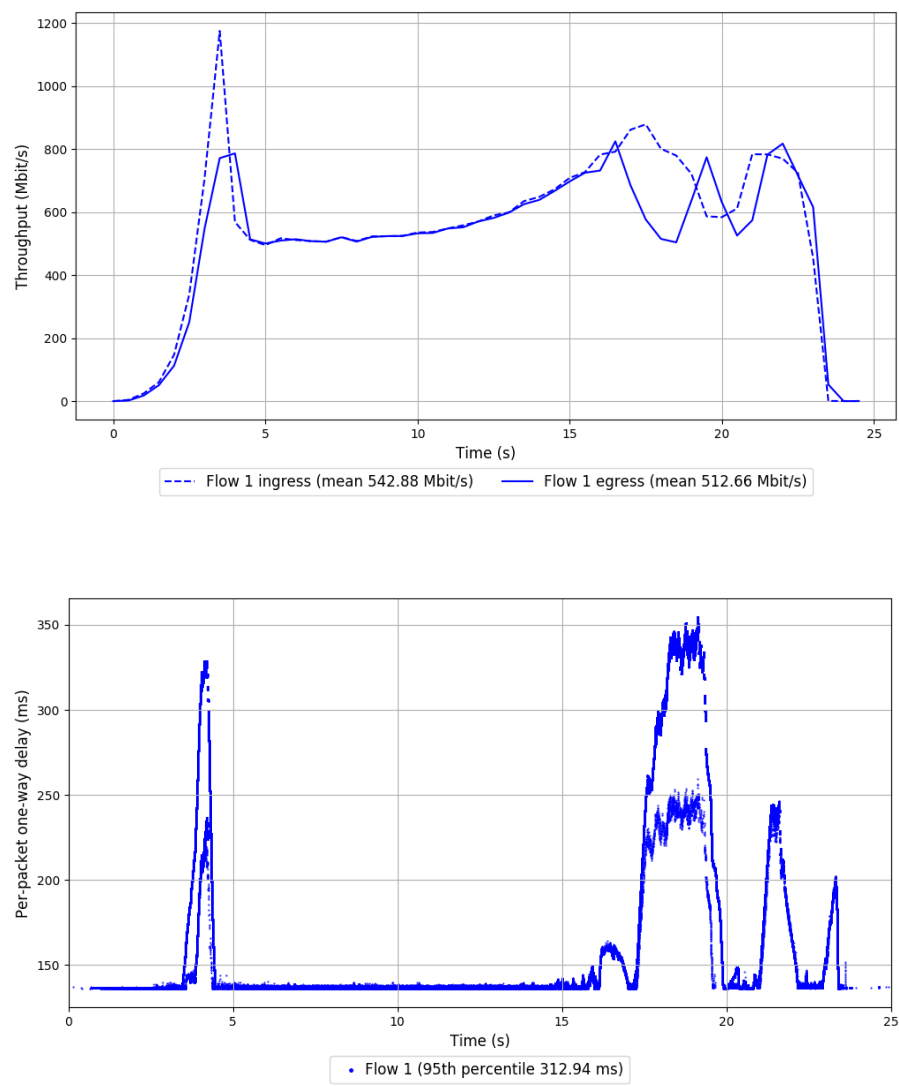
-- Flow 1:

Average throughput: 512.66 Mbit/s

95th percentile per-packet one-way delay: 312.935 ms

Loss rate: 5.57%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-11-21 08:06:27

End at: 2017-11-21 08:06:57

Below is generated by plot.py at 2017-11-21 11:49:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 540.89 Mbit/s

95th percentile per-packet one-way delay: 260.789 ms

Loss rate: 4.52%

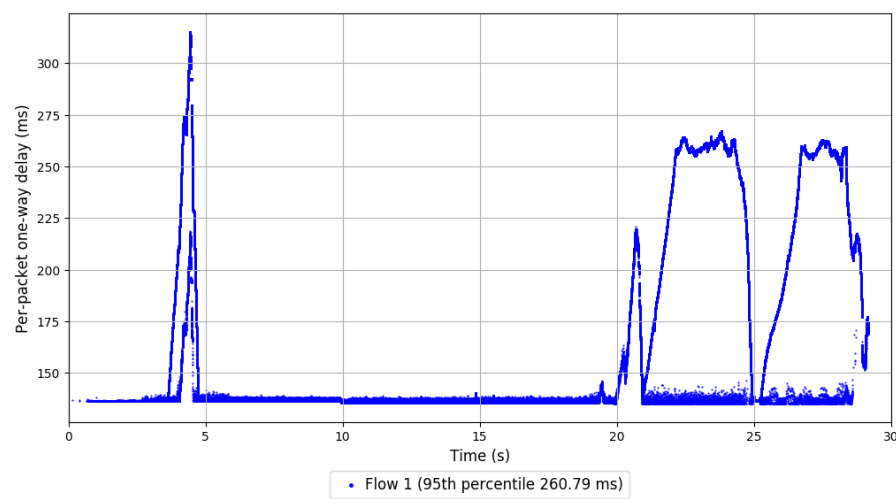
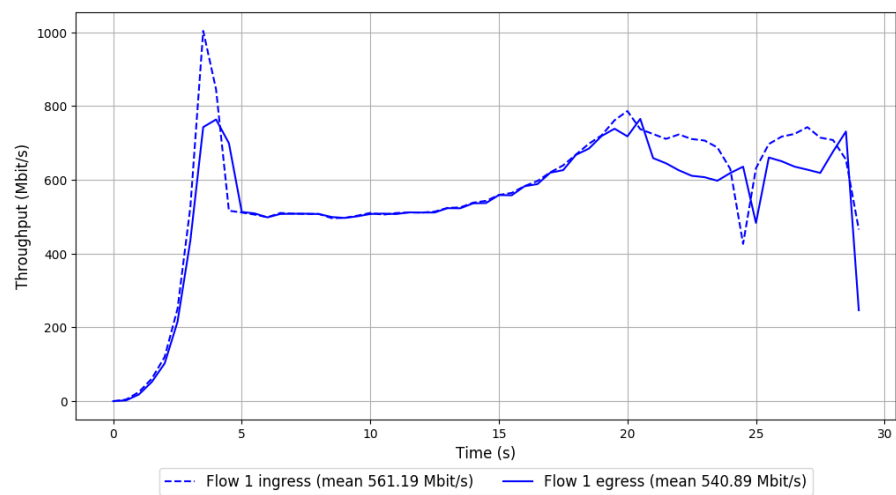
-- Flow 1:

Average throughput: 540.89 Mbit/s

95th percentile per-packet one-way delay: 260.789 ms

Loss rate: 4.52%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-21 08:17:46

End at: 2017-11-21 08:18:16

Below is generated by plot.py at 2017-11-21 11:50:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 575.47 Mbit/s

95th percentile per-packet one-way delay: 278.310 ms

Loss rate: 3.39%

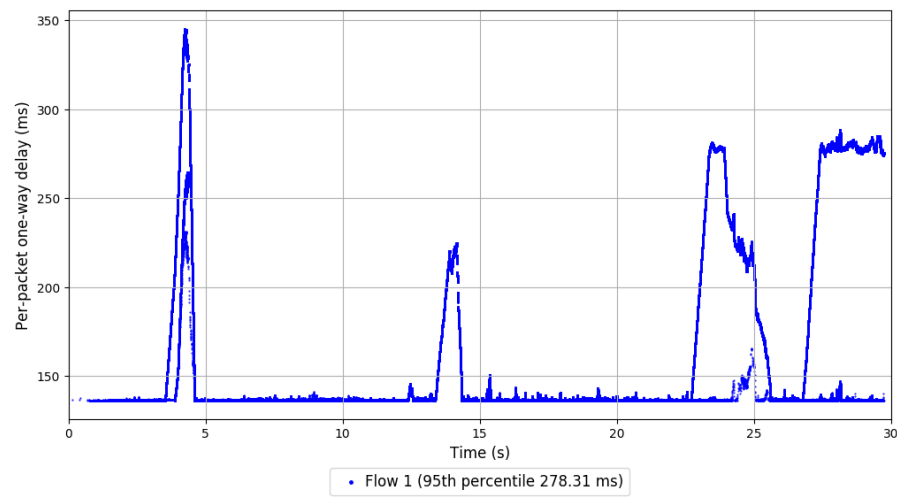
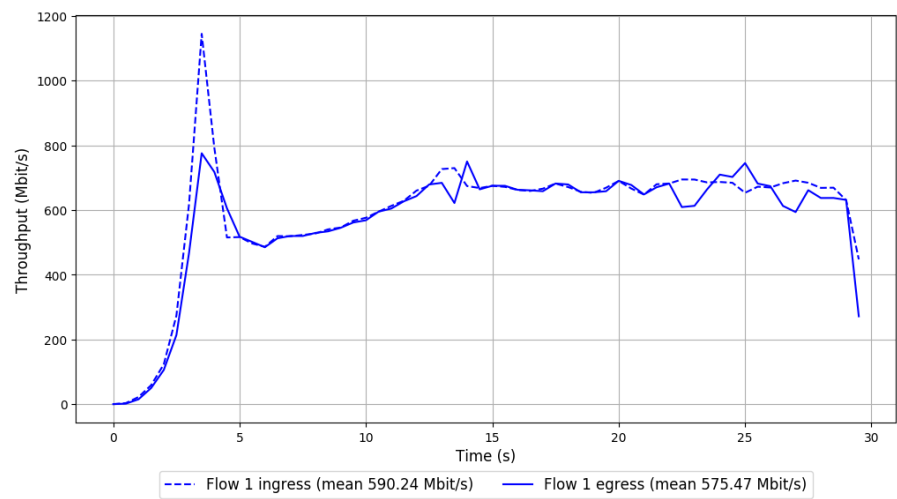
-- Flow 1:

Average throughput: 575.47 Mbit/s

95th percentile per-packet one-way delay: 278.310 ms

Loss rate: 3.39%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-21 08:29:27

End at: 2017-11-21 08:29:57

Below is generated by plot.py at 2017-11-21 11:50:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 536.02 Mbit/s

95th percentile per-packet one-way delay: 260.079 ms

Loss rate: 3.45%

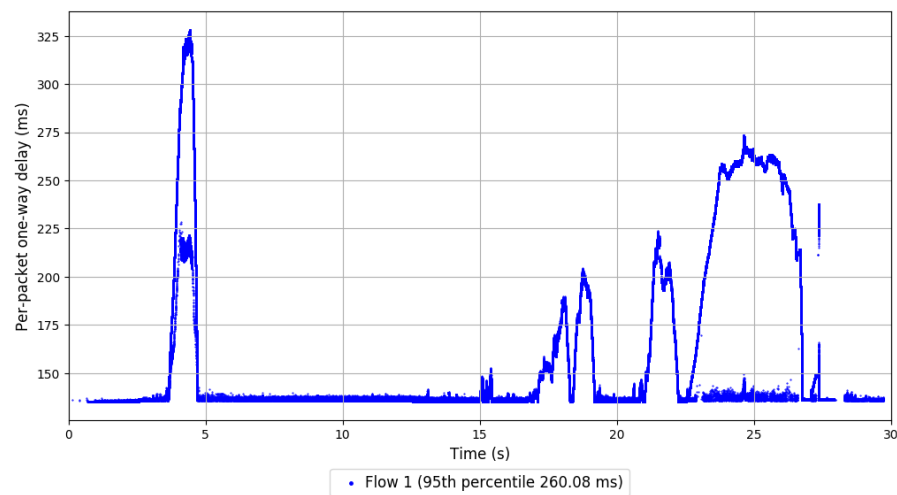
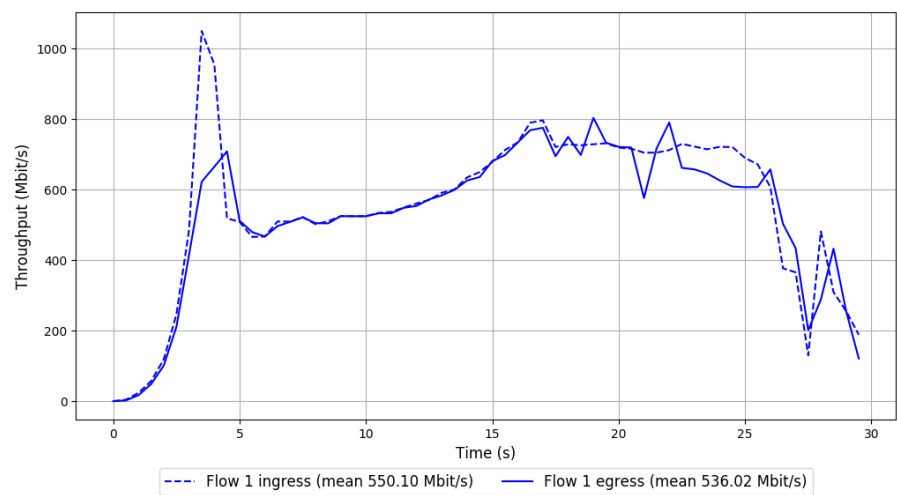
-- Flow 1:

Average throughput: 536.02 Mbit/s

95th percentile per-packet one-way delay: 260.079 ms

Loss rate: 3.45%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-21 08:40:56

End at: 2017-11-21 08:41:26

Below is generated by plot.py at 2017-11-21 11:50:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 549.50 Mbit/s

95th percentile per-packet one-way delay: 231.928 ms

Loss rate: 3.14%

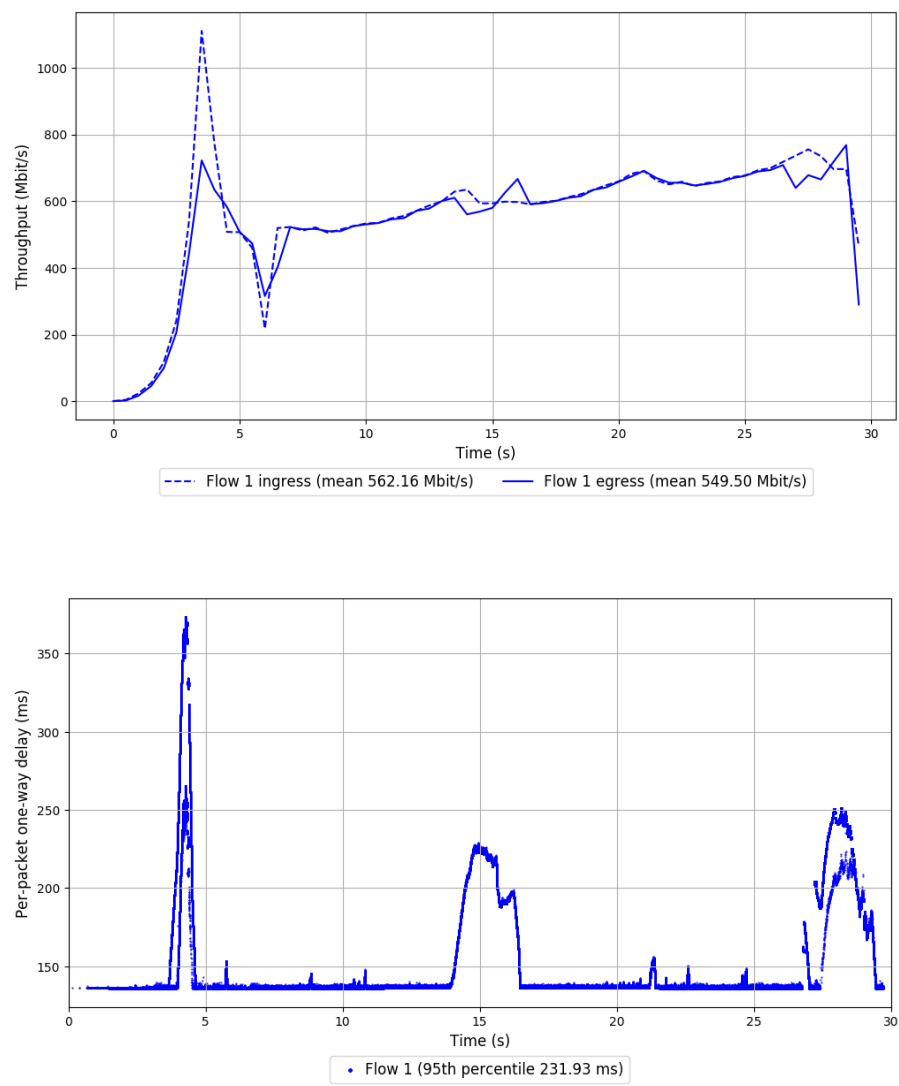
-- Flow 1:

Average throughput: 549.50 Mbit/s

95th percentile per-packet one-way delay: 231.928 ms

Loss rate: 3.14%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-21 08:52:23

End at: 2017-11-21 08:52:53

Below is generated by plot.py at 2017-11-21 11:50:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 513.35 Mbit/s

95th percentile per-packet one-way delay: 262.817 ms

Loss rate: 5.40%

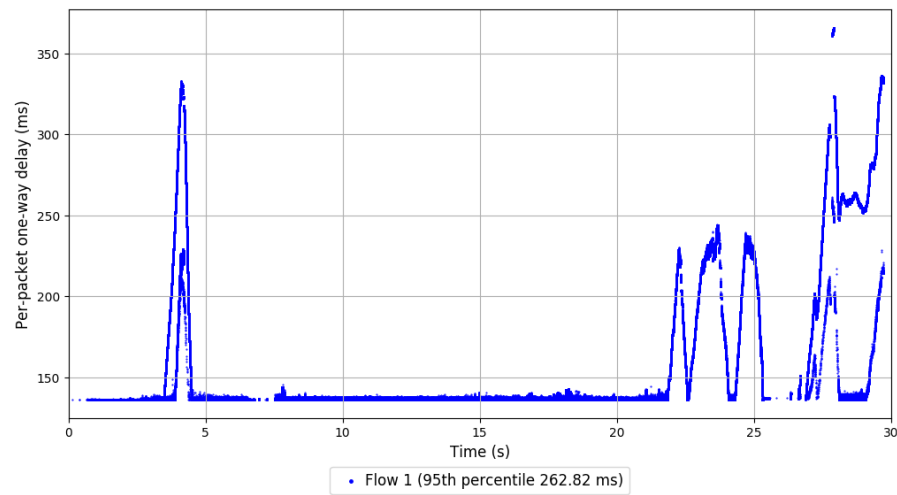
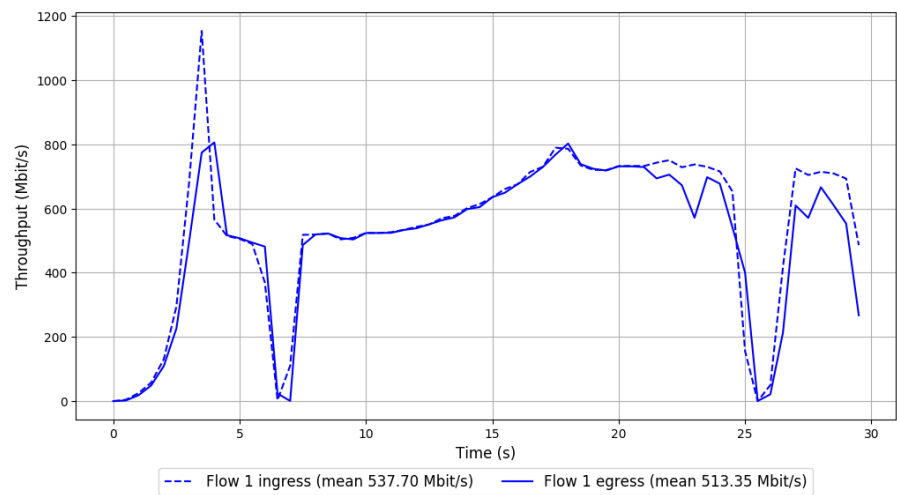
-- Flow 1:

Average throughput: 513.35 Mbit/s

95th percentile per-packet one-way delay: 262.817 ms

Loss rate: 5.40%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-21 09:03:37

End at: 2017-11-21 09:04:07

Below is generated by plot.py at 2017-11-21 11:50:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 497.35 Mbit/s

95th percentile per-packet one-way delay: 218.298 ms

Loss rate: 3.61%

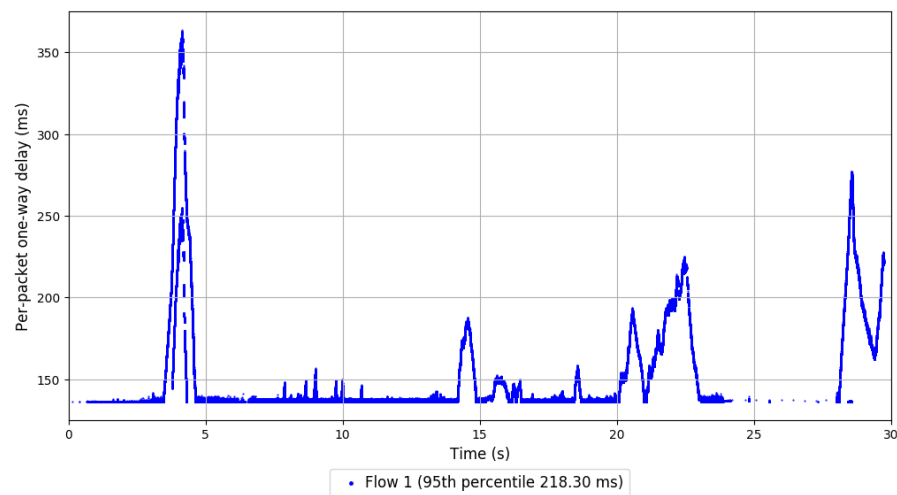
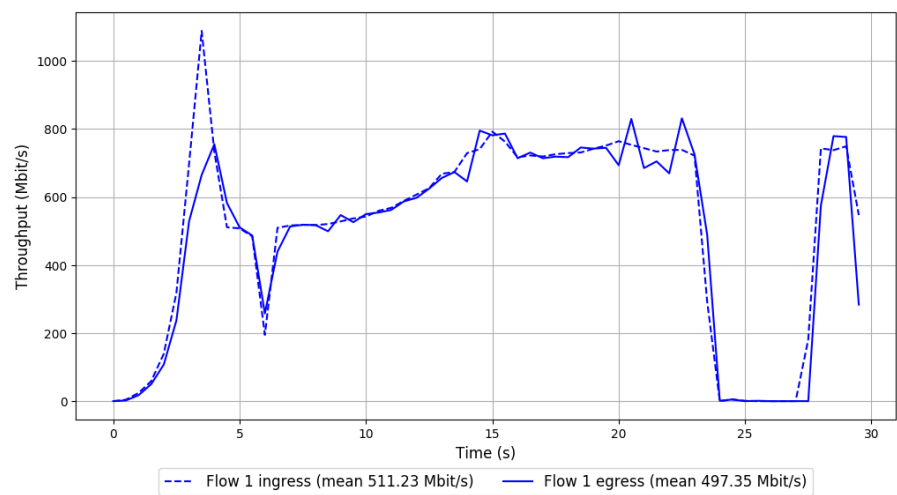
-- Flow 1:

Average throughput: 497.35 Mbit/s

95th percentile per-packet one-way delay: 218.298 ms

Loss rate: 3.61%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-21 09:14:54

End at: 2017-11-21 09:15:24

Below is generated by plot.py at 2017-11-21 11:50:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 536.58 Mbit/s

95th percentile per-packet one-way delay: 316.136 ms

Loss rate: 3.97%

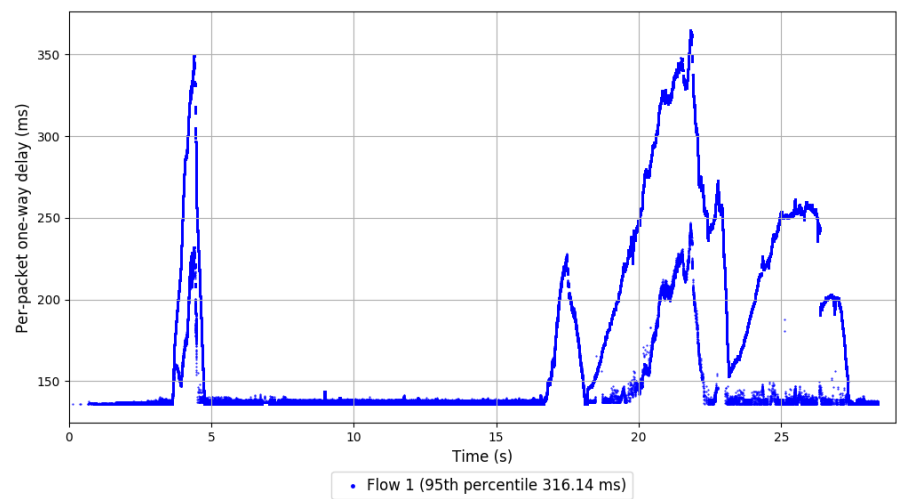
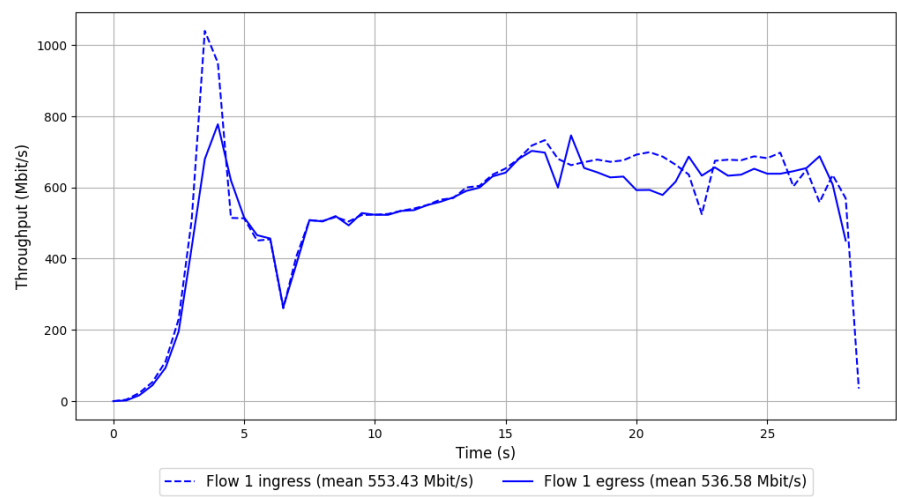
-- Flow 1:

Average throughput: 536.58 Mbit/s

95th percentile per-packet one-way delay: 316.136 ms

Loss rate: 3.97%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-11-21 09:26:38

End at: 2017-11-21 09:27:08

Below is generated by plot.py at 2017-11-21 11:58:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 564.02 Mbit/s

95th percentile per-packet one-way delay: 202.578 ms

Loss rate: 2.91%

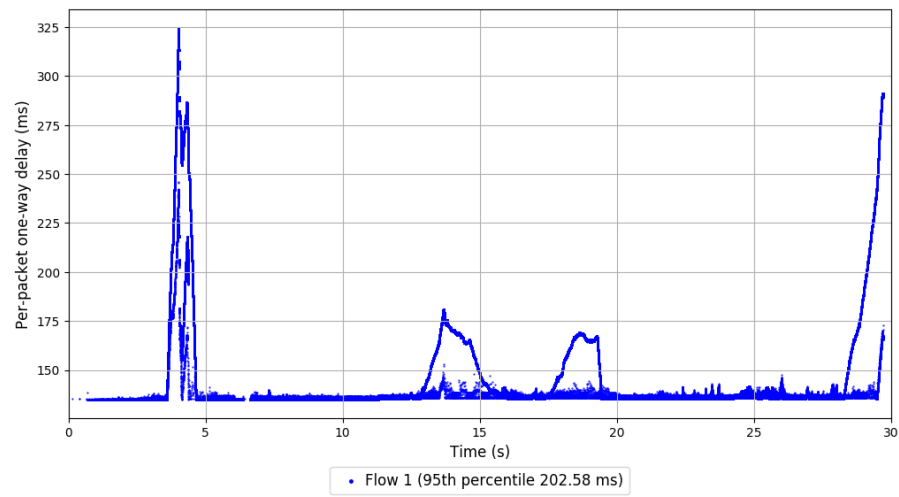
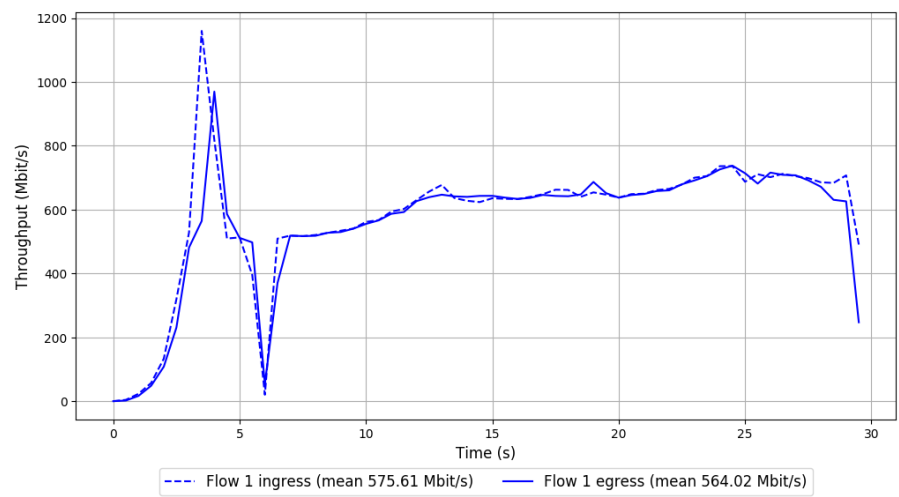
-- Flow 1:

Average throughput: 564.02 Mbit/s

95th percentile per-packet one-way delay: 202.578 ms

Loss rate: 2.91%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-11-21 09:38:05

End at: 2017-11-21 09:38:35

Below is generated by plot.py at 2017-11-21 12:00:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 577.62 Mbit/s

95th percentile per-packet one-way delay: 185.729 ms

Loss rate: 2.48%

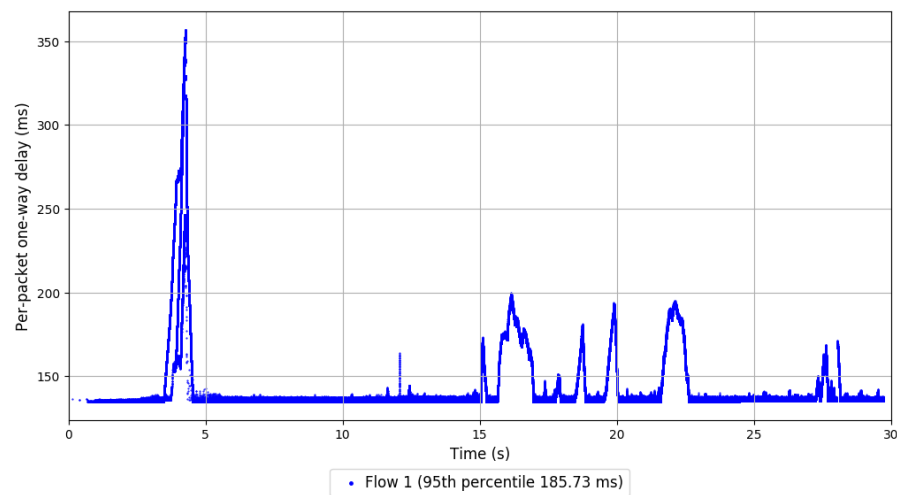
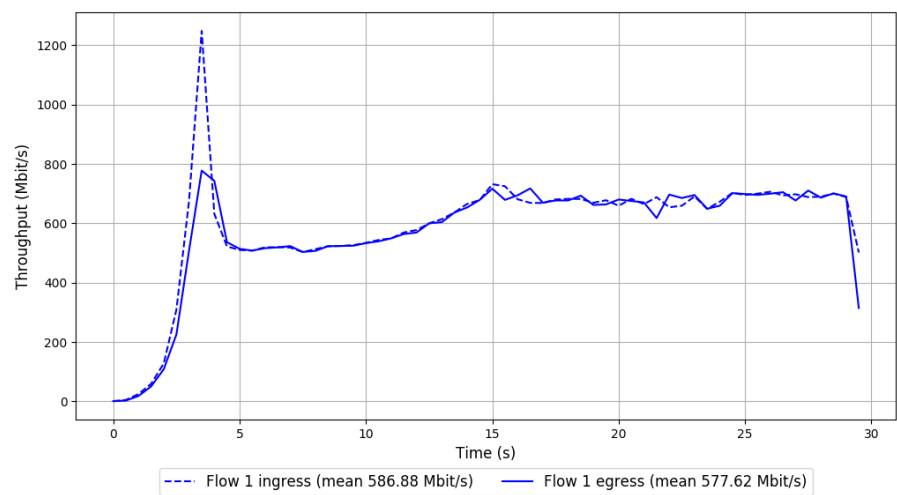
-- Flow 1:

Average throughput: 577.62 Mbit/s

95th percentile per-packet one-way delay: 185.729 ms

Loss rate: 2.48%

Run 10: Report of PCC — Data Link

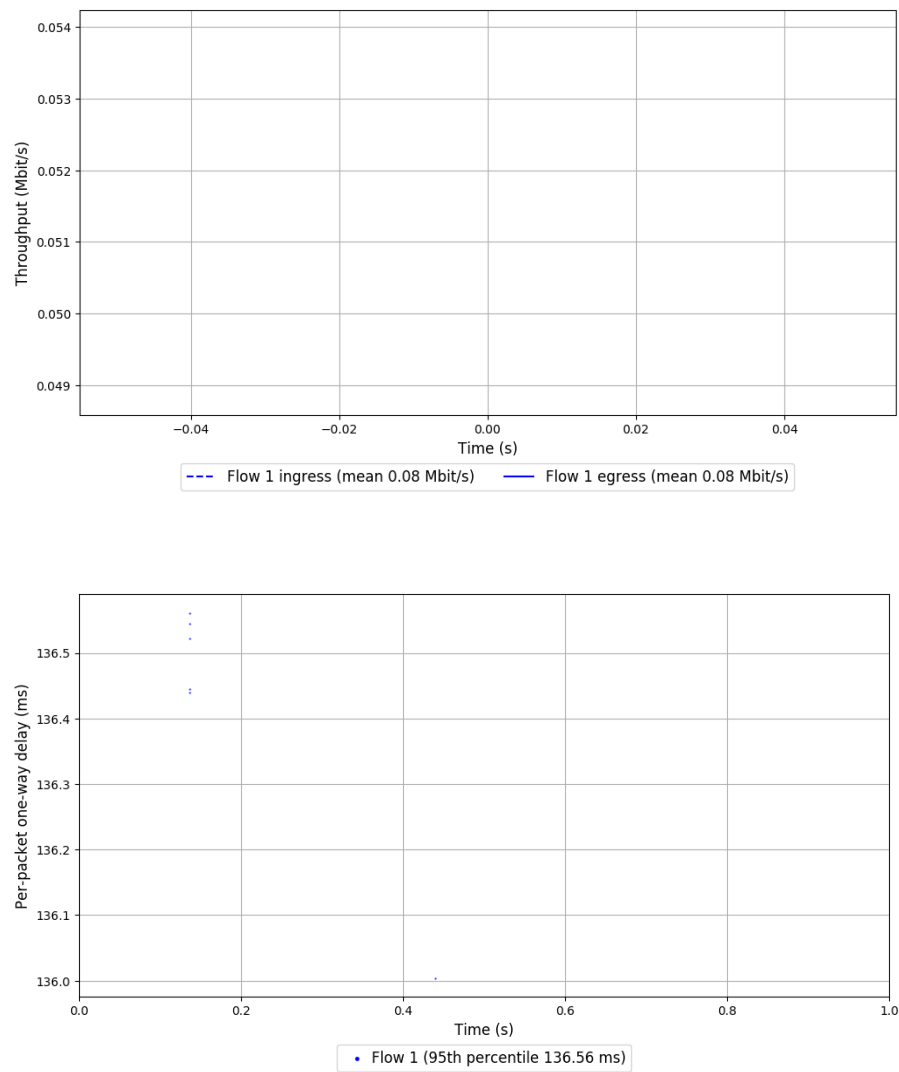


Run 1: Statistics of QUIC Cubic

Start at: 2017-11-21 07:58:46

End at: 2017-11-21 07:59:16

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

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

End at: 2017-11-21 08:10:21

Below is generated by plot.py at 2017-11-21 12:00:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.94 Mbit/s

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

Loss rate: 1.34%

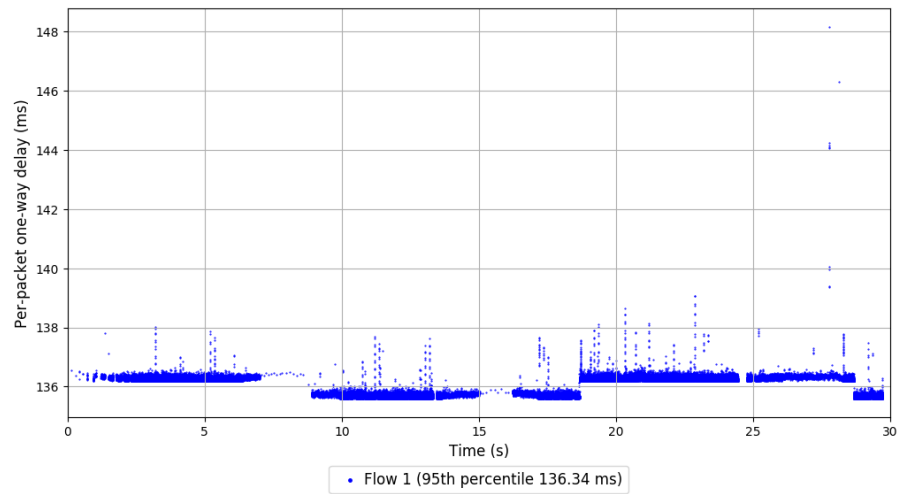
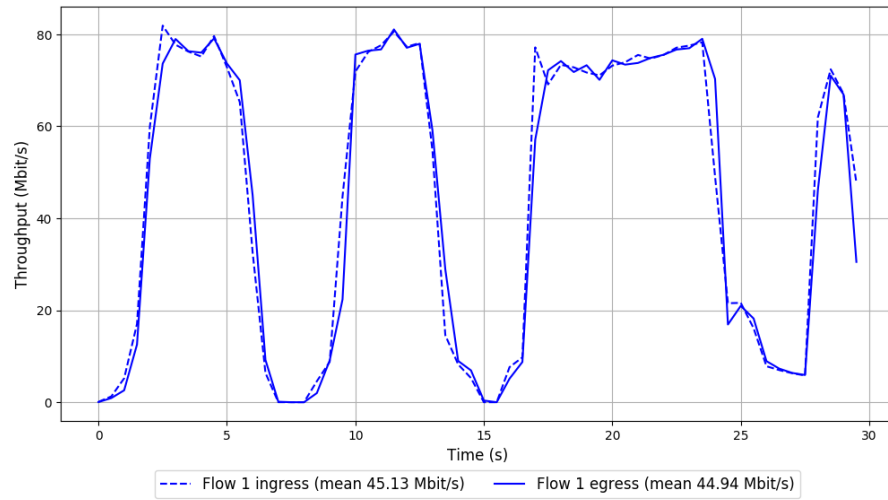
-- Flow 1:

Average throughput: 44.94 Mbit/s

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

Loss rate: 1.34%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-21 08:21:31

End at: 2017-11-21 08:22:01

Below is generated by plot.py at 2017-11-21 12:00:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.06 Mbit/s

95th percentile per-packet one-way delay: 136.377 ms

Loss rate: 1.09%

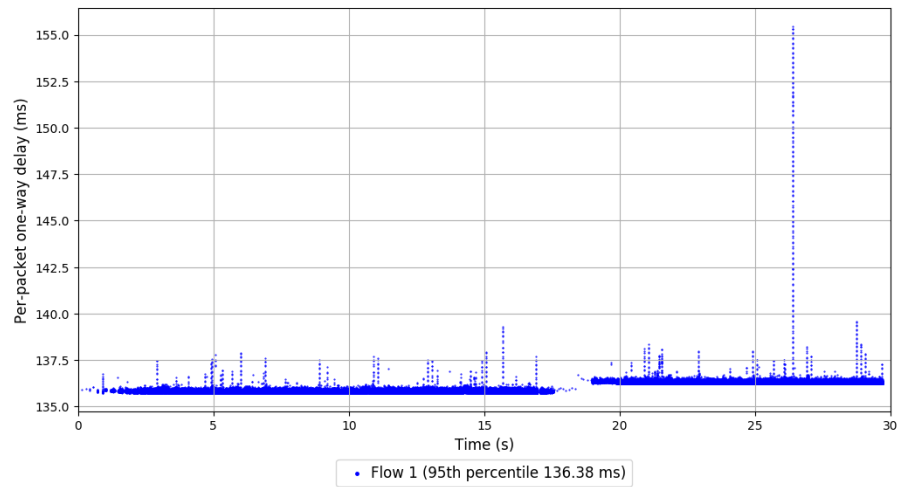
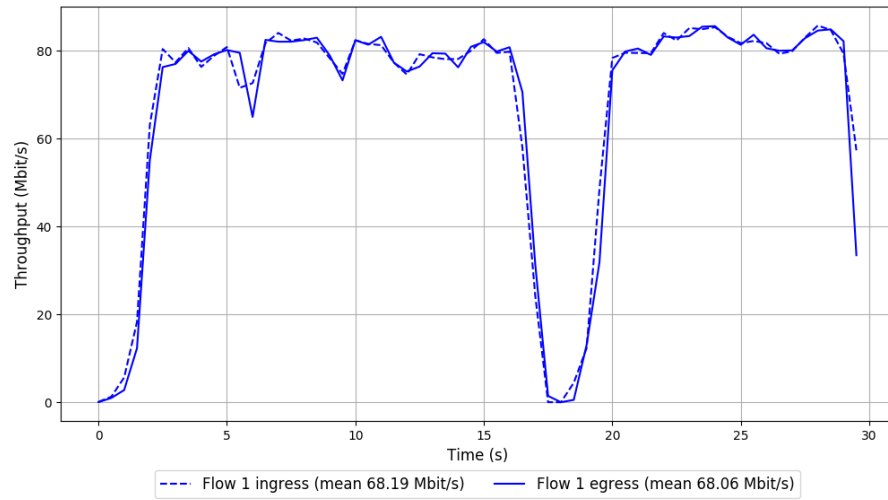
-- Flow 1:

Average throughput: 68.06 Mbit/s

95th percentile per-packet one-way delay: 136.377 ms

Loss rate: 1.09%

Run 3: Report of QUIC Cubic — Data Link

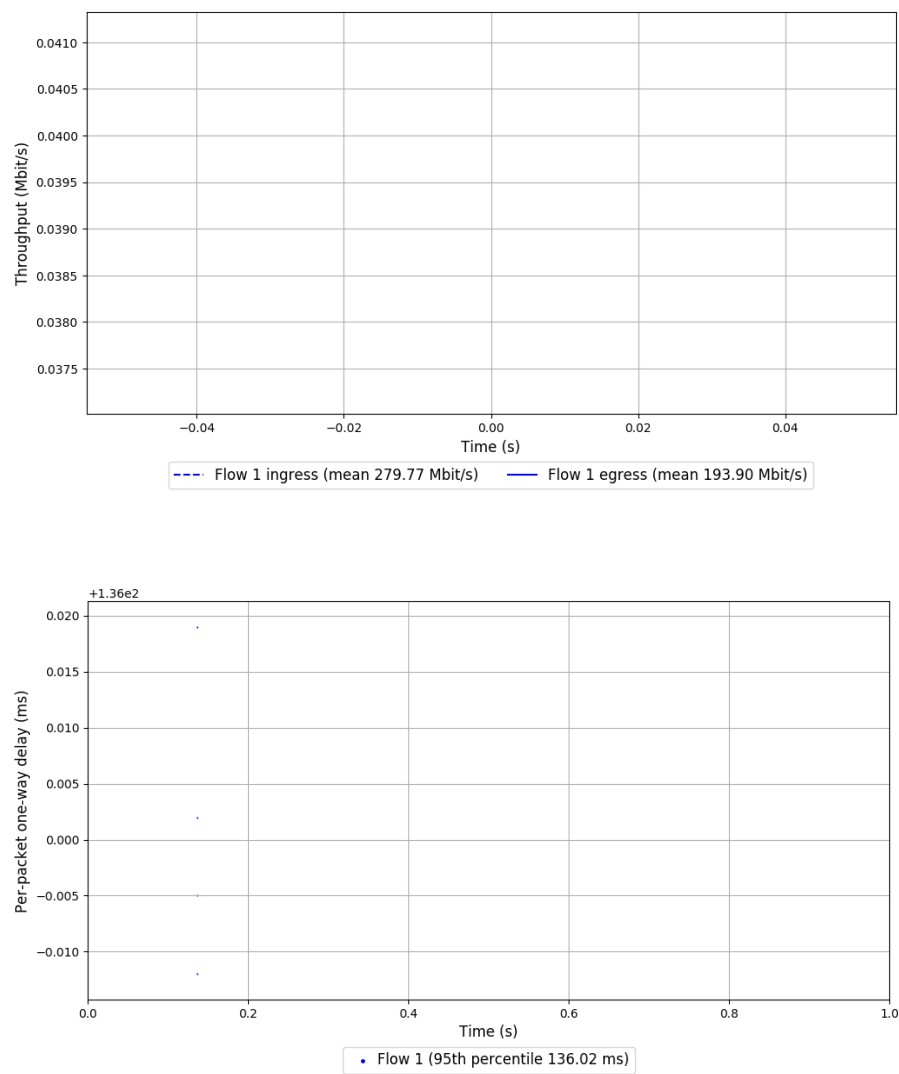


Run 4: Statistics of QUIC Cubic

Start at: 2017-11-21 08:33:11

End at: 2017-11-21 08:33:41

Run 4: Report of QUIC Cubic — Data Link

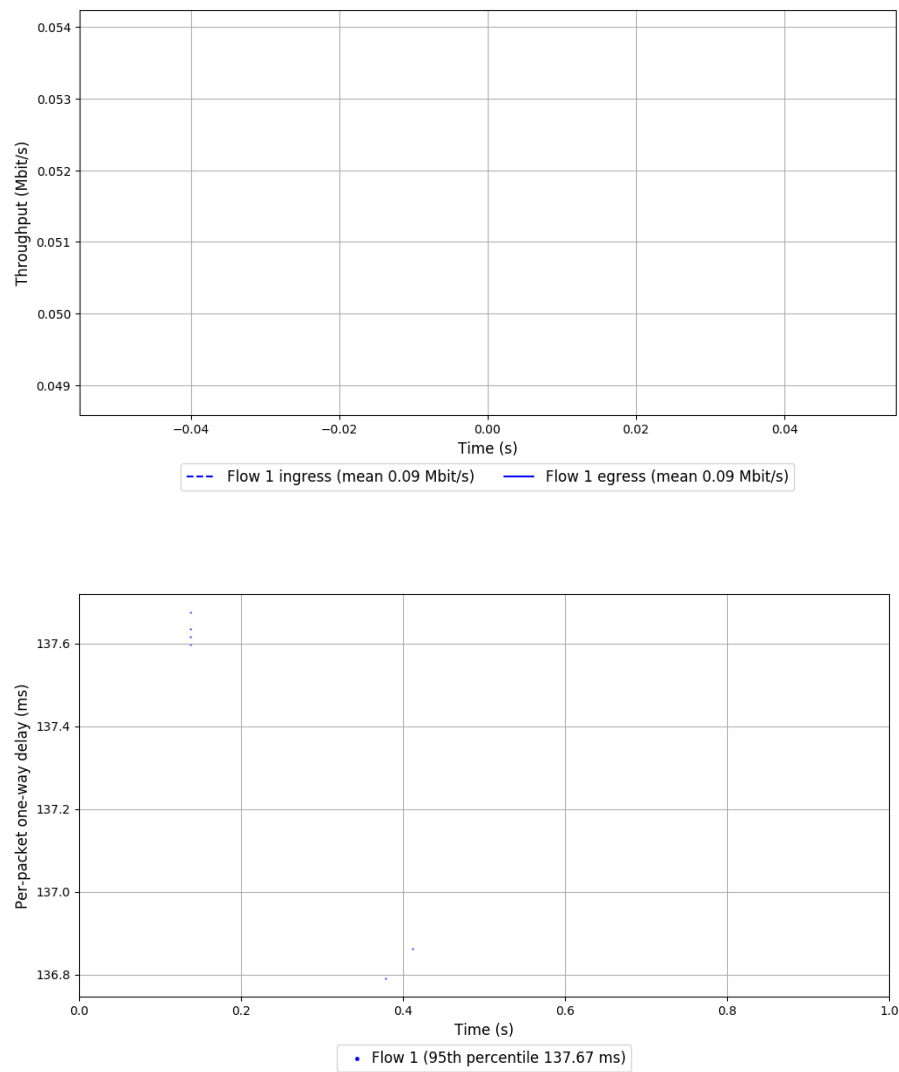


Run 5: Statistics of QUIC Cubic

Start at: 2017-11-21 08:44:41

End at: 2017-11-21 08:45:11

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-21 08:55:49

End at: 2017-11-21 08:56:19

Below is generated by plot.py at 2017-11-21 12:00:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.48 Mbit/s

95th percentile per-packet one-way delay: 137.035 ms

Loss rate: 1.14%

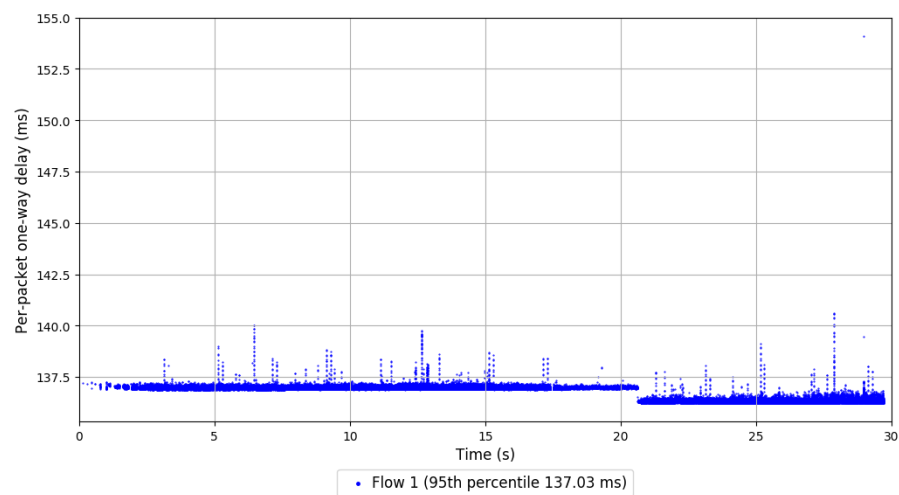
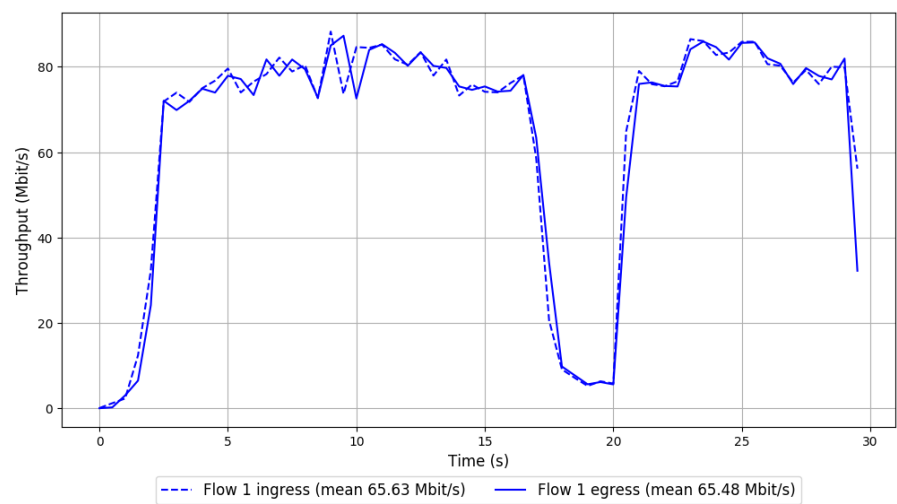
-- Flow 1:

Average throughput: 65.48 Mbit/s

95th percentile per-packet one-way delay: 137.035 ms

Loss rate: 1.14%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-21 09:07:00

End at: 2017-11-21 09:07:30

Below is generated by plot.py at 2017-11-21 12:00:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.76 Mbit/s

95th percentile per-packet one-way delay: 136.560 ms

Loss rate: 1.14%

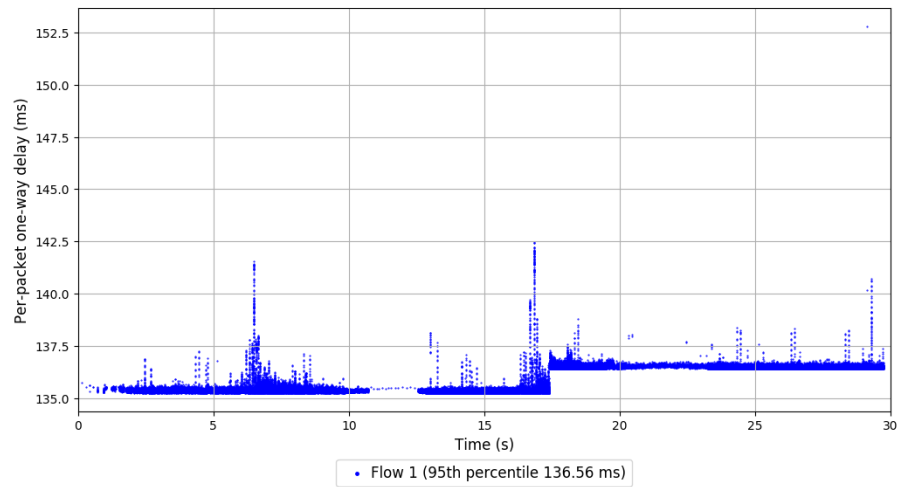
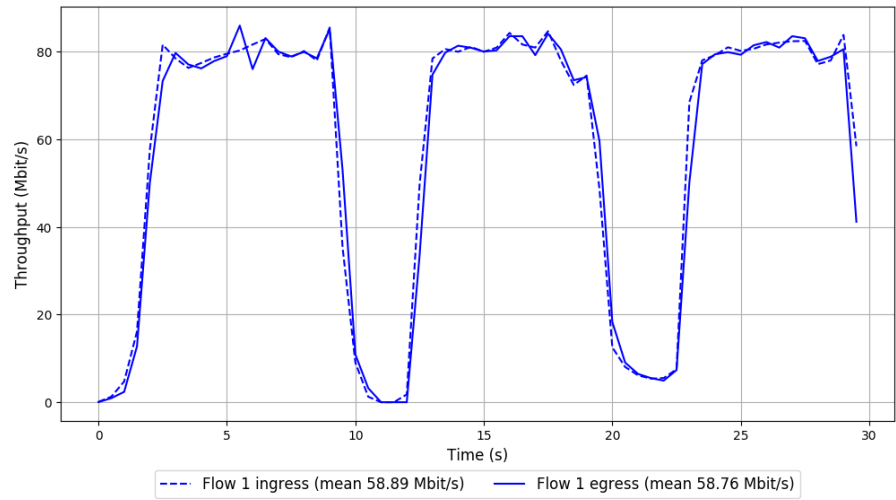
-- Flow 1:

Average throughput: 58.76 Mbit/s

95th percentile per-packet one-way delay: 136.560 ms

Loss rate: 1.14%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-21 09:18:39

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

Below is generated by plot.py at 2017-11-21 12:00:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.33 Mbit/s

95th percentile per-packet one-way delay: 136.846 ms

Loss rate: 1.41%

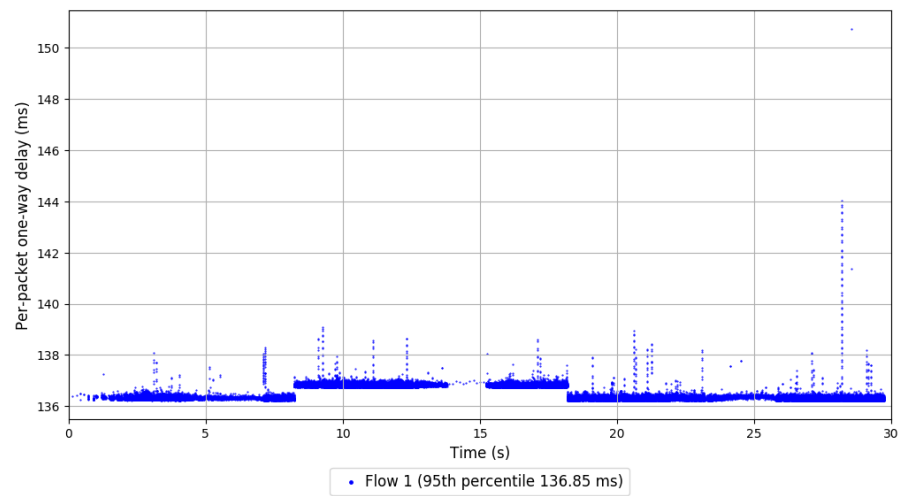
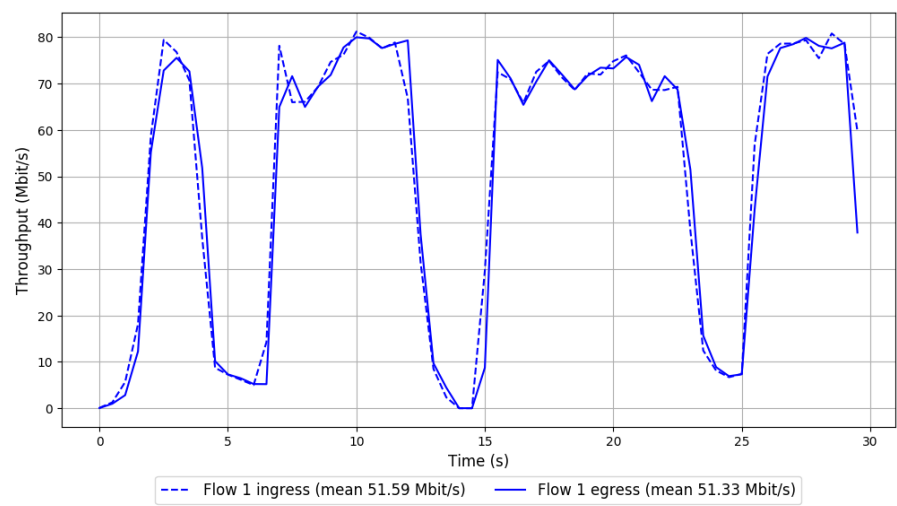
-- Flow 1:

Average throughput: 51.33 Mbit/s

95th percentile per-packet one-way delay: 136.846 ms

Loss rate: 1.41%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-21 09:30:05

End at: 2017-11-21 09:30:35

Below is generated by plot.py at 2017-11-21 12:00:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.77 Mbit/s

95th percentile per-packet one-way delay: 136.426 ms

Loss rate: 1.31%

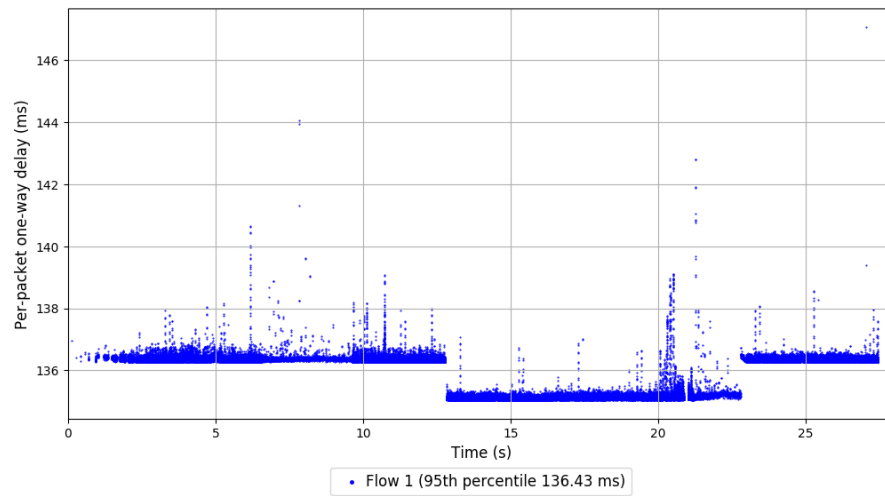
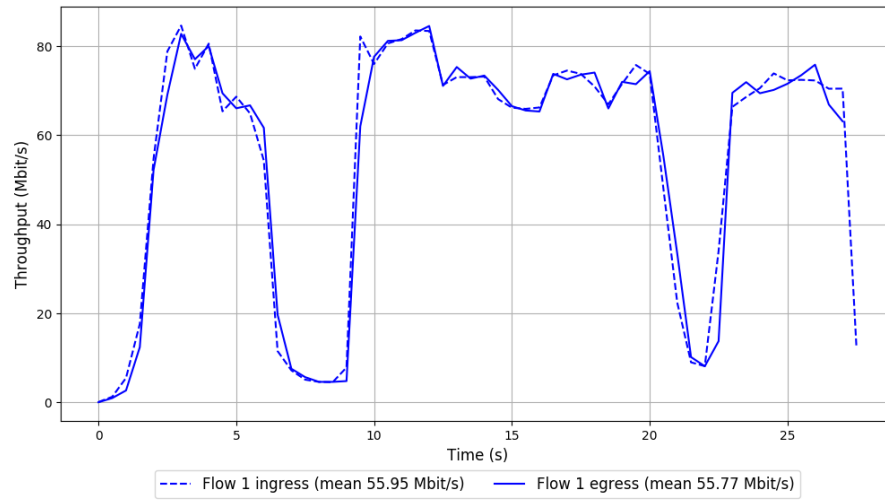
-- Flow 1:

Average throughput: 55.77 Mbit/s

95th percentile per-packet one-way delay: 136.426 ms

Loss rate: 1.31%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-11-21 09:41:44

End at: 2017-11-21 09:42:14

Below is generated by plot.py at 2017-11-21 12:00:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.46 Mbit/s

95th percentile per-packet one-way delay: 137.097 ms

Loss rate: 1.04%

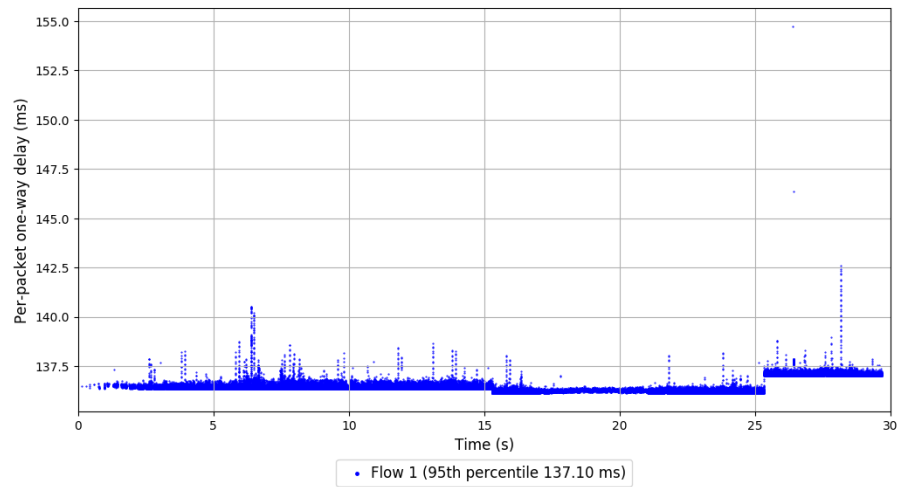
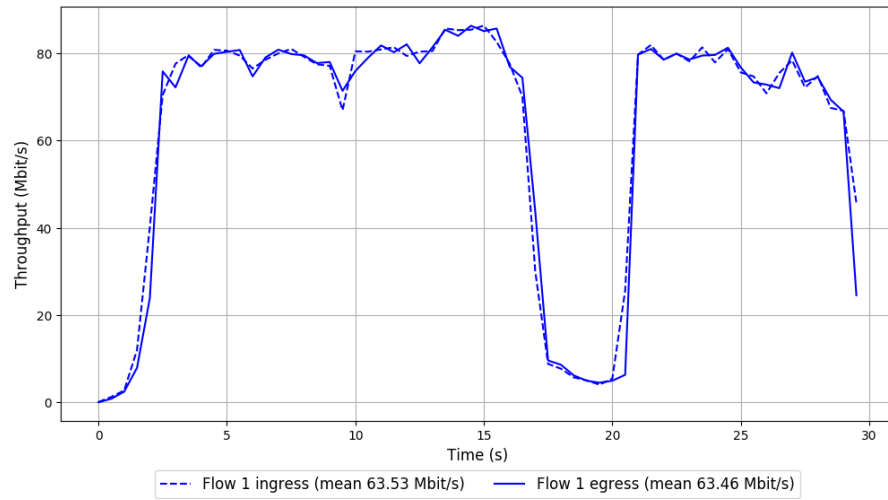
-- Flow 1:

Average throughput: 63.46 Mbit/s

95th percentile per-packet one-way delay: 137.097 ms

Loss rate: 1.04%

Run 10: Report of QUIC Cubic — Data Link

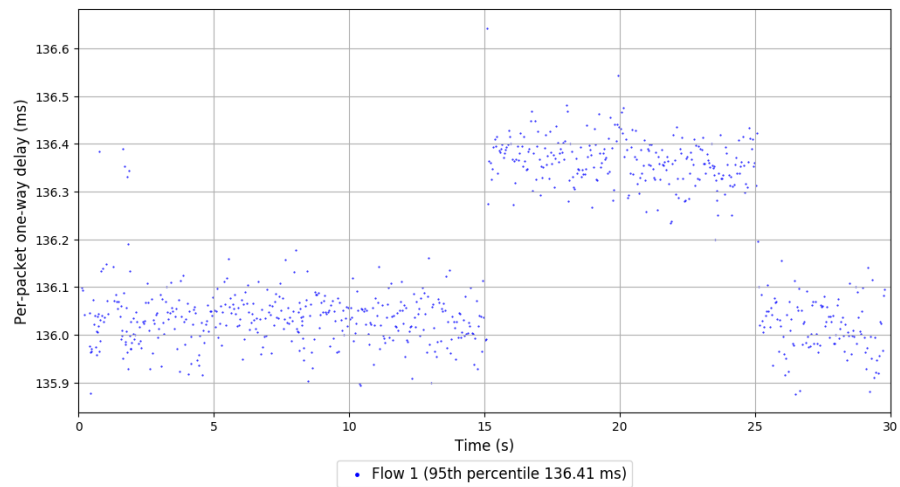
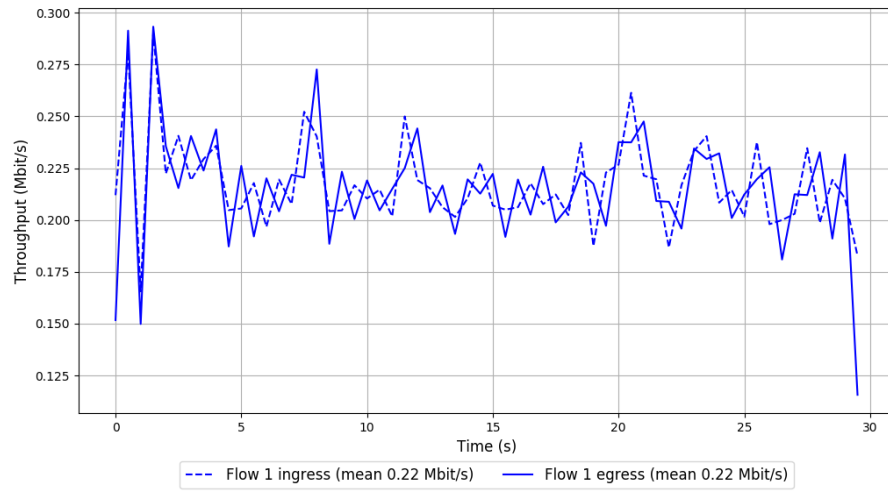


```
Run 1: Statistics of SCReAM

Start at: 2017-11-21 07:54:25
End at: 2017-11-21 07:54:55

# Below is generated by plot.py at 2017-11-21 12:00:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.411 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.411 ms
Loss rate: 0.89%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2017-11-21 08:05:45

End at: 2017-11-21 08:06:15

Below is generated by plot.py at 2017-11-21 12:00:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.956 ms

Loss rate: 0.89%

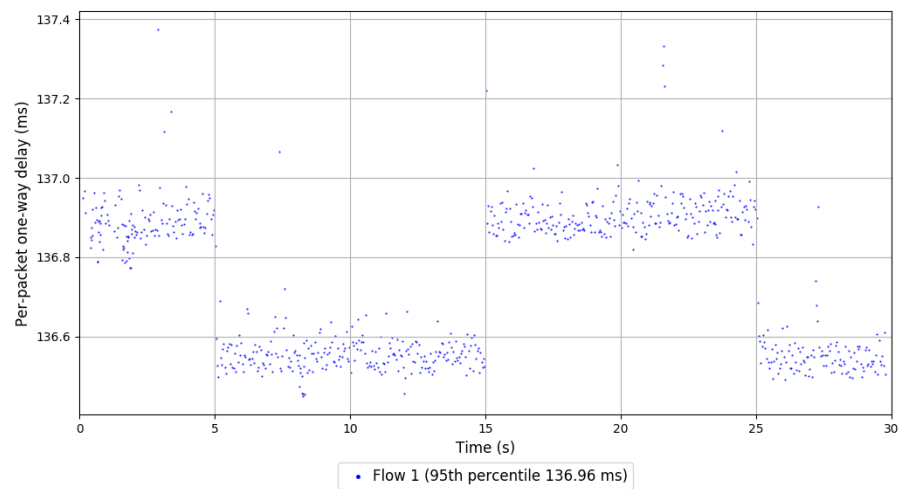
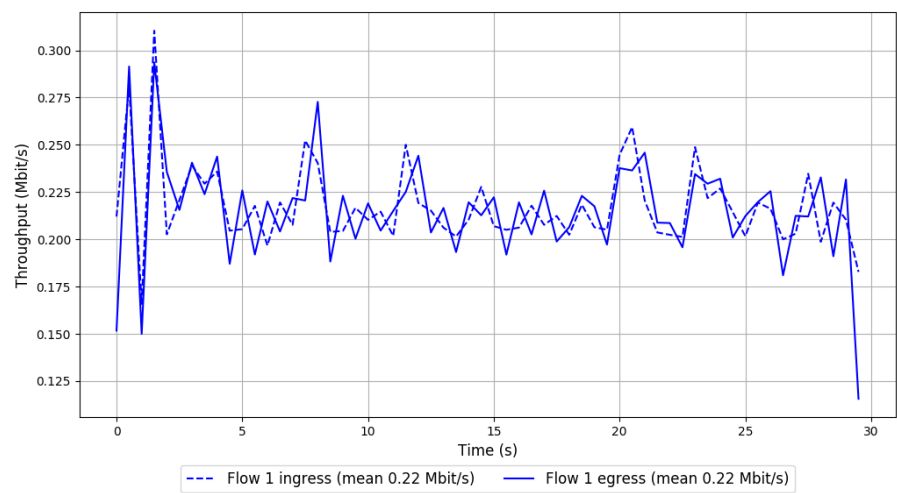
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.956 ms

Loss rate: 0.89%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-11-21 08:17:04

End at: 2017-11-21 08:17:34

Below is generated by plot.py at 2017-11-21 12:00:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.581 ms

Loss rate: 0.89%

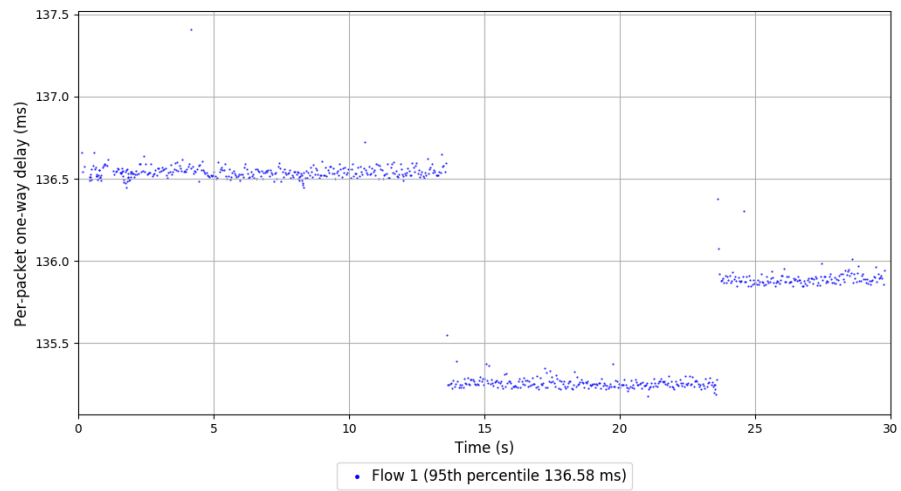
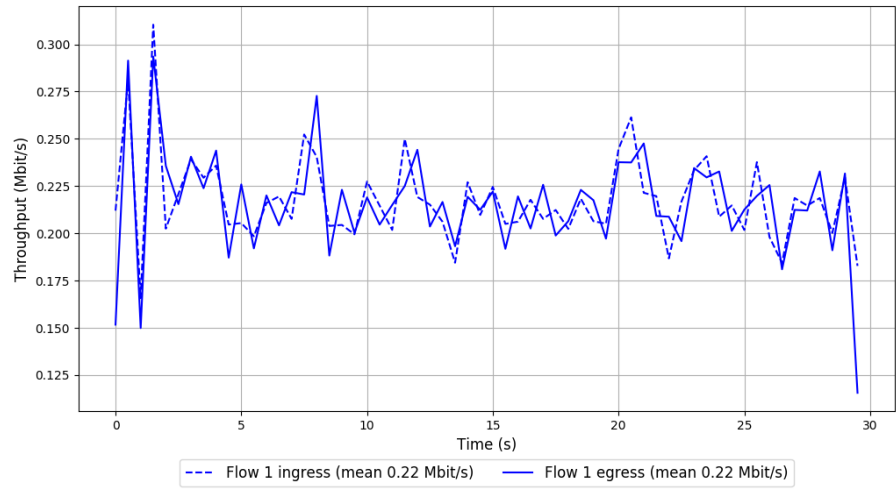
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.581 ms

Loss rate: 0.89%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-11-21 08:28:45

End at: 2017-11-21 08:29:15

Below is generated by plot.py at 2017-11-21 12:00:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.683 ms

Loss rate: 0.89%

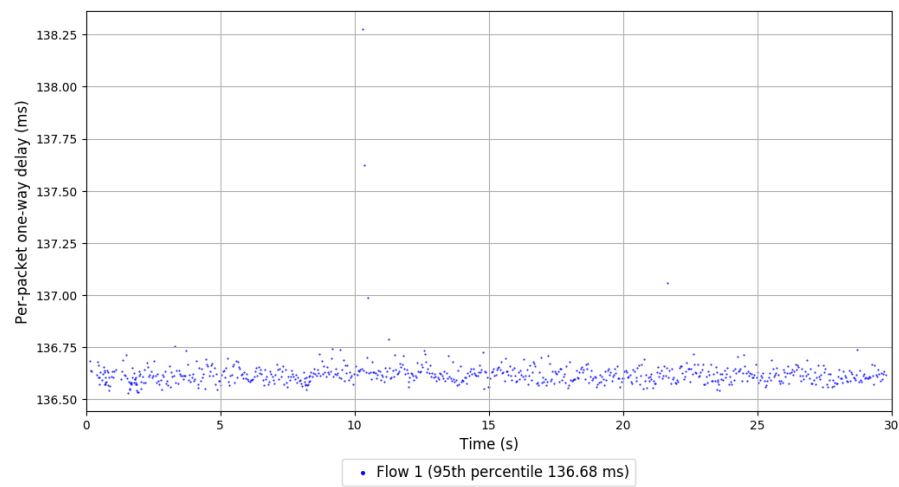
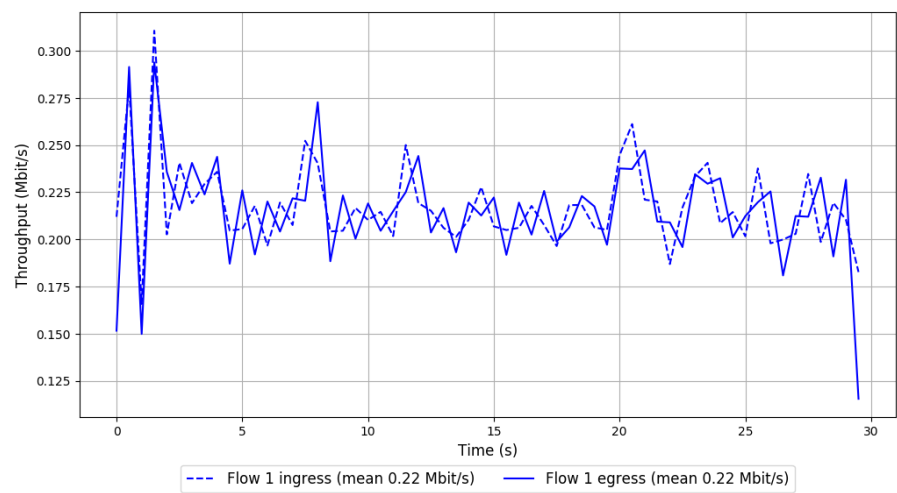
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.683 ms

Loss rate: 0.89%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-11-21 08:40:14

End at: 2017-11-21 08:40:44

Below is generated by plot.py at 2017-11-21 12:00:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.548 ms

Loss rate: 0.89%

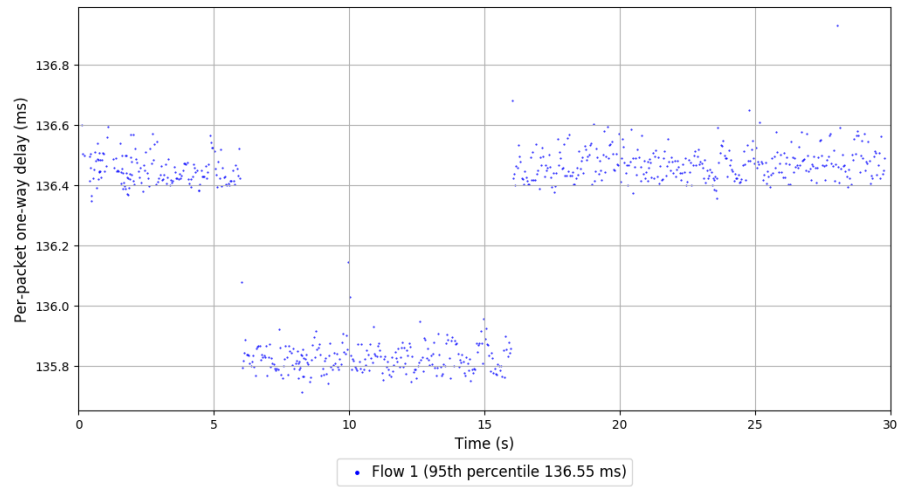
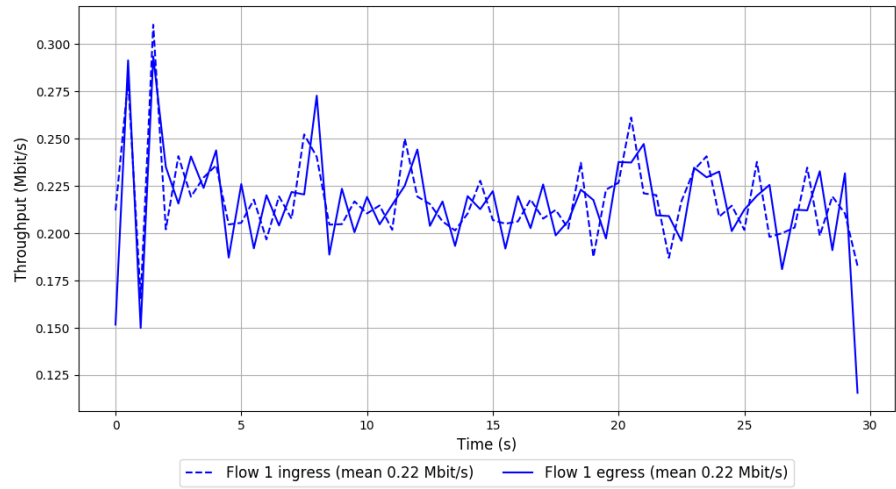
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.548 ms

Loss rate: 0.89%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-11-21 08:51:41

End at: 2017-11-21 08:52:11

Below is generated by plot.py at 2017-11-21 12:00:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.567 ms

Loss rate: 0.89%

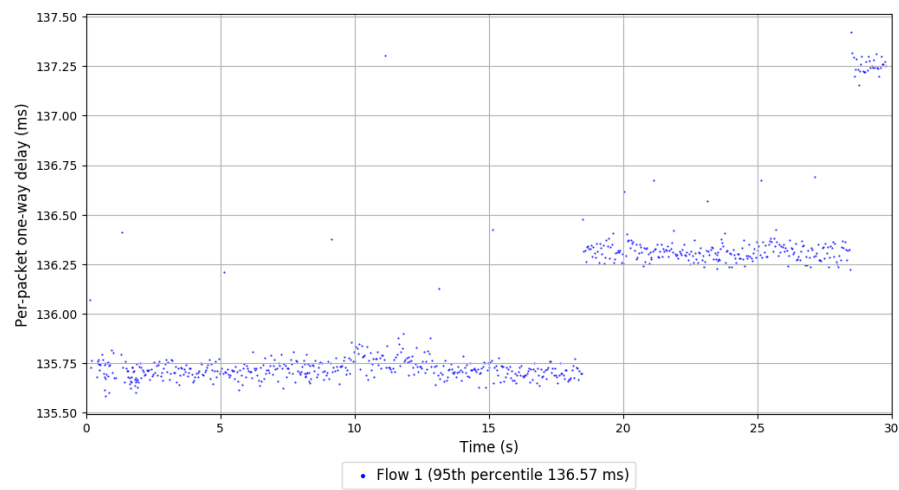
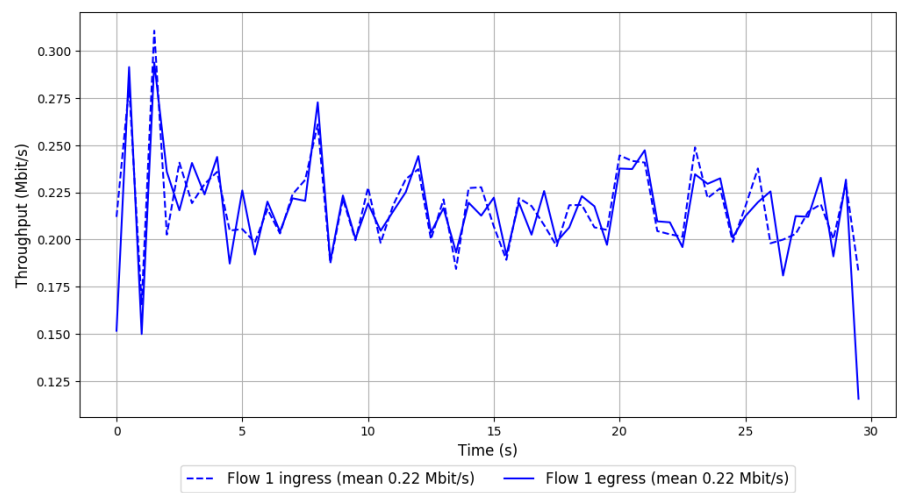
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.567 ms

Loss rate: 0.89%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-11-21 09:02:54

End at: 2017-11-21 09:03:24

Below is generated by plot.py at 2017-11-21 12:00:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.353 ms

Loss rate: 0.90%

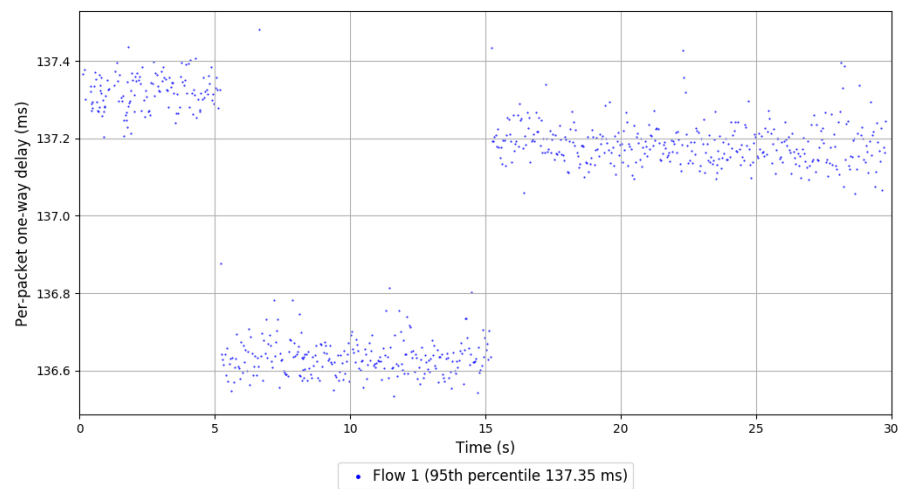
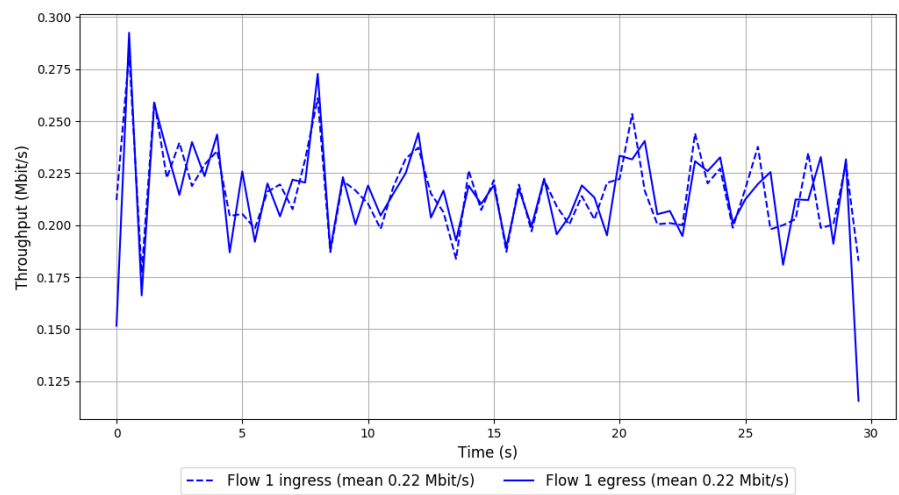
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.353 ms

Loss rate: 0.90%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-11-21 09:14:12

End at: 2017-11-21 09:14:42

Below is generated by plot.py at 2017-11-21 12:00:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.670 ms

Loss rate: 0.89%

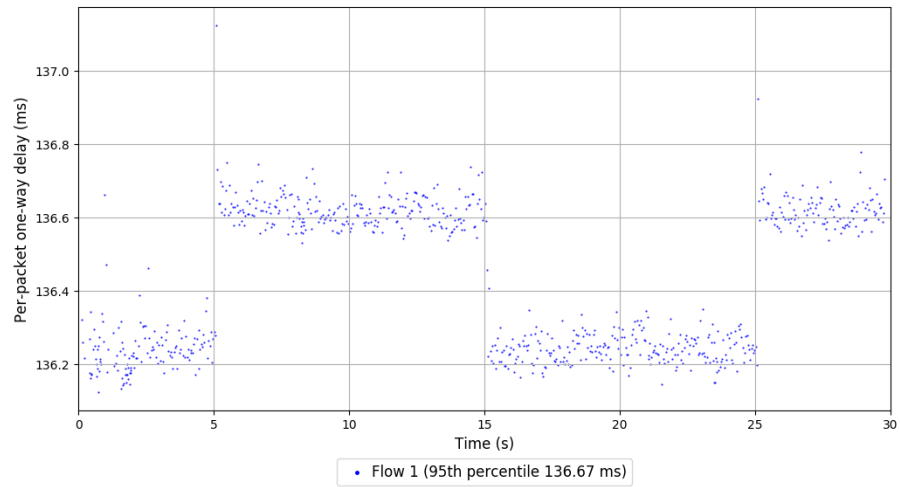
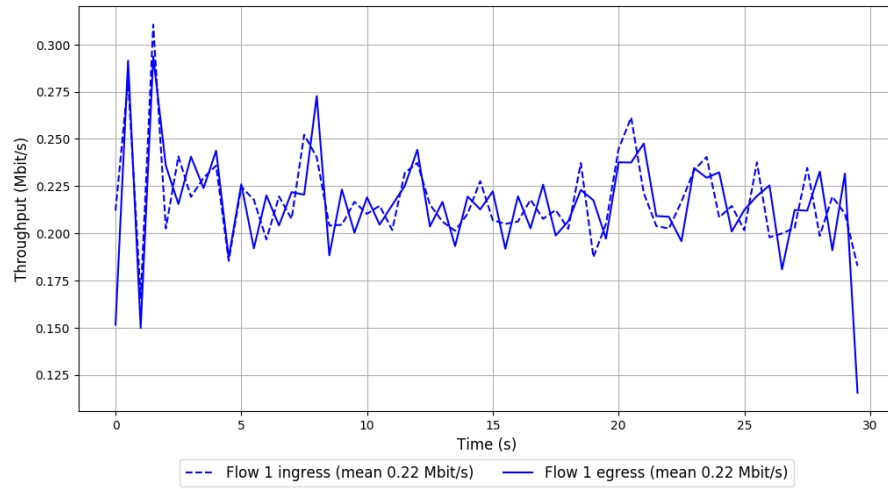
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.670 ms

Loss rate: 0.89%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-11-21 09:25:56

End at: 2017-11-21 09:26:26

Below is generated by plot.py at 2017-11-21 12:00:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.033 ms

Loss rate: 0.89%

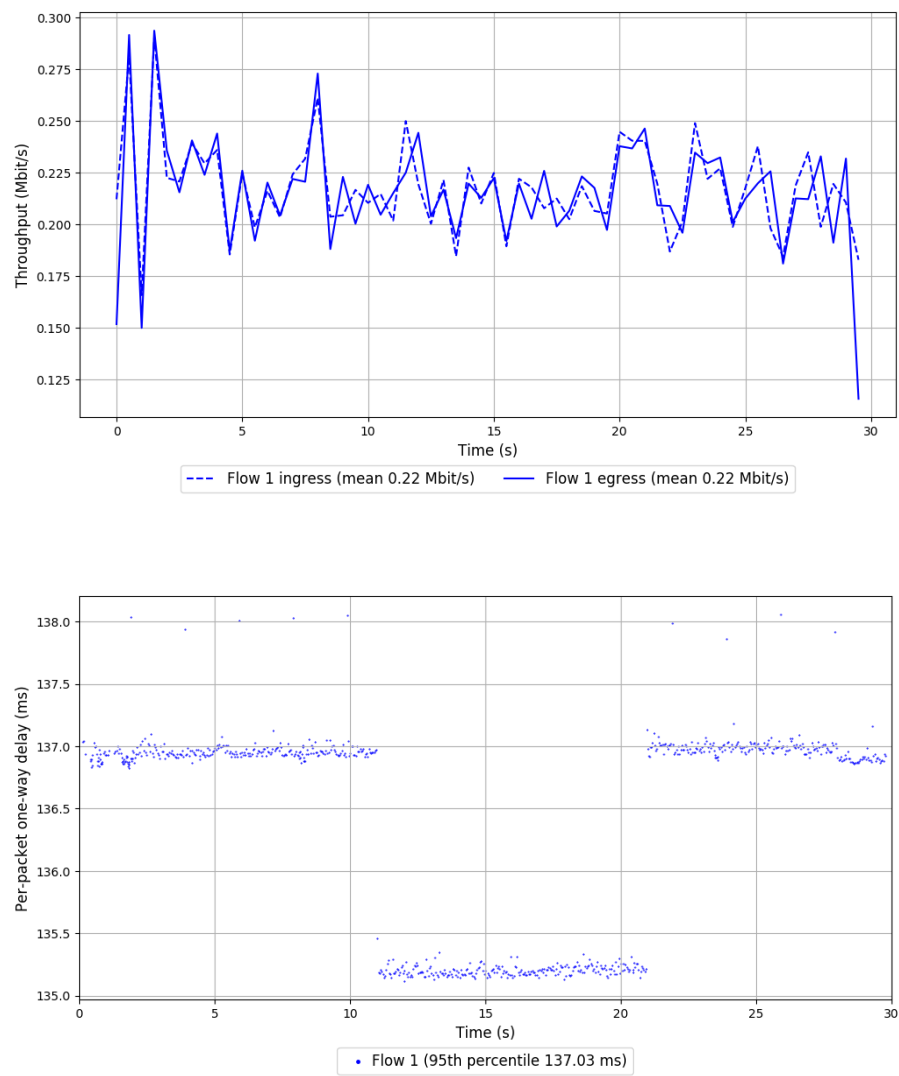
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.033 ms

Loss rate: 0.89%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-11-21 09:37:23

End at: 2017-11-21 09:37:53

Below is generated by plot.py at 2017-11-21 12:00:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.857 ms

Loss rate: 0.90%

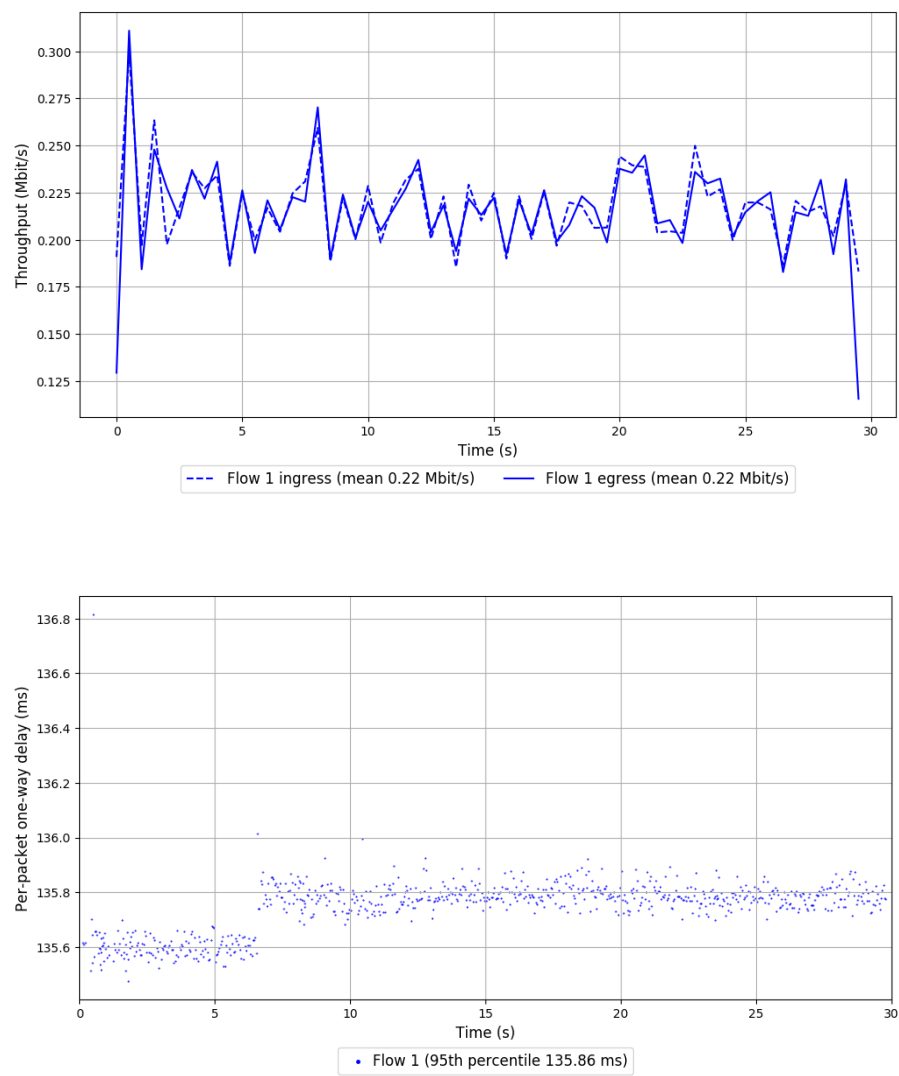
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.857 ms

Loss rate: 0.90%

Run 10: Report of SCRaM — Data Link

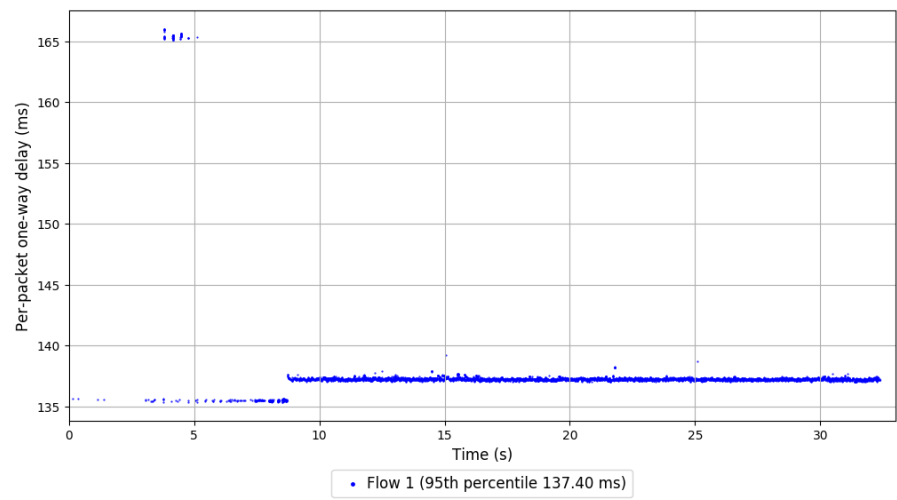
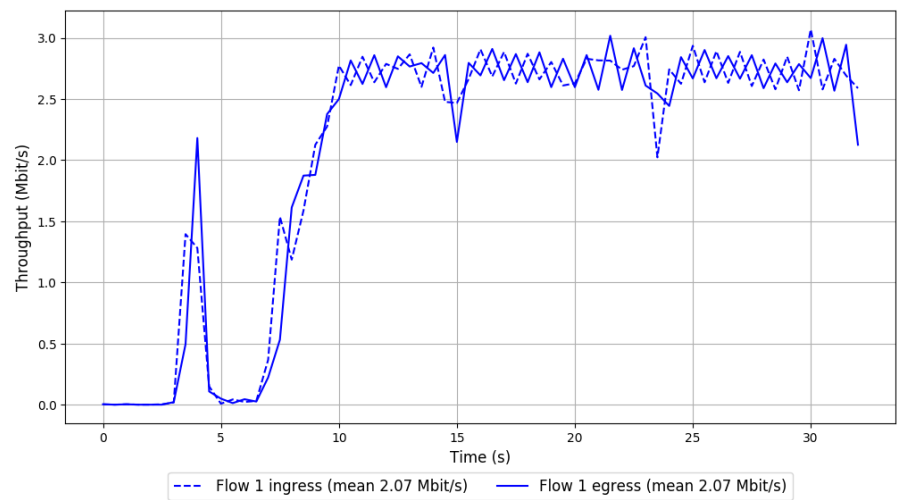


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-21 07:50:44
End at: 2017-11-21 07:51:14

# Below is generated by plot.py at 2017-11-21 12:00:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 137.401 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 137.401 ms
Loss rate: 0.82%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-21 08:01:59

End at: 2017-11-21 08:02:29

Below is generated by plot.py at 2017-11-21 12:00:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.852 ms

Loss rate: 0.90%

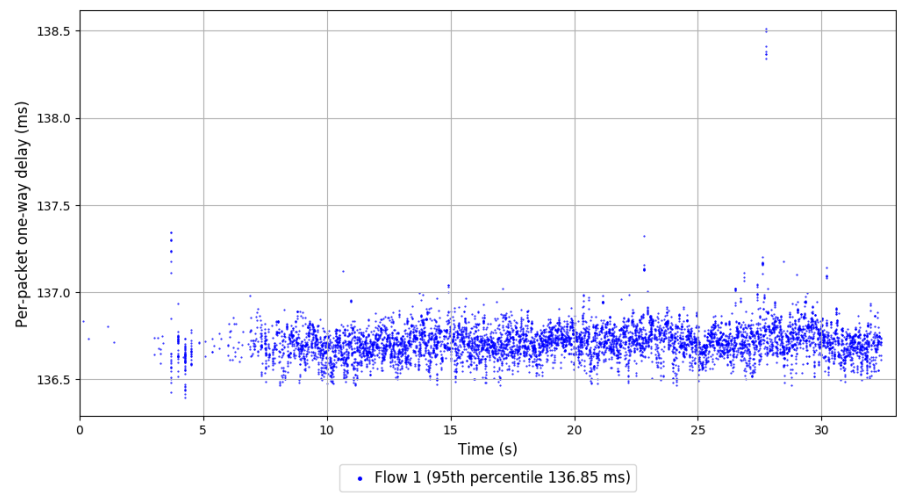
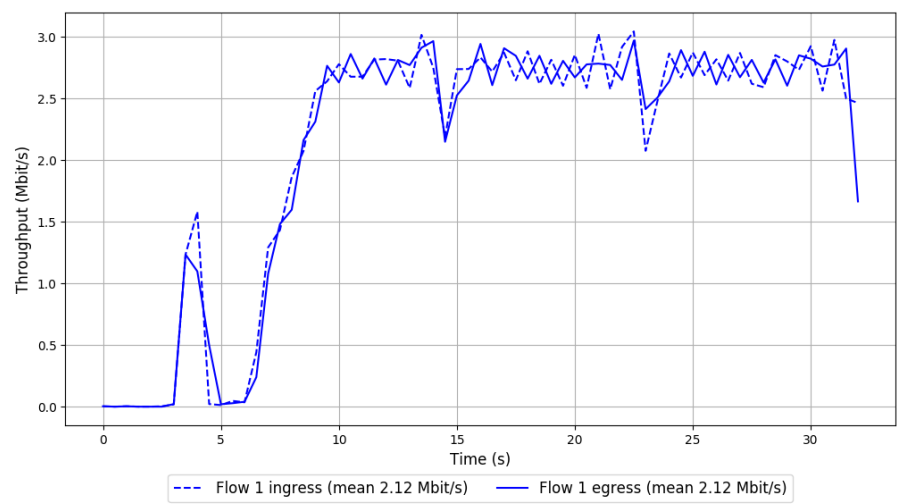
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.852 ms

Loss rate: 0.90%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-21 08:13:17

End at: 2017-11-21 08:13:47

Below is generated by plot.py at 2017-11-21 12:00:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 135.902 ms

Loss rate: 0.99%

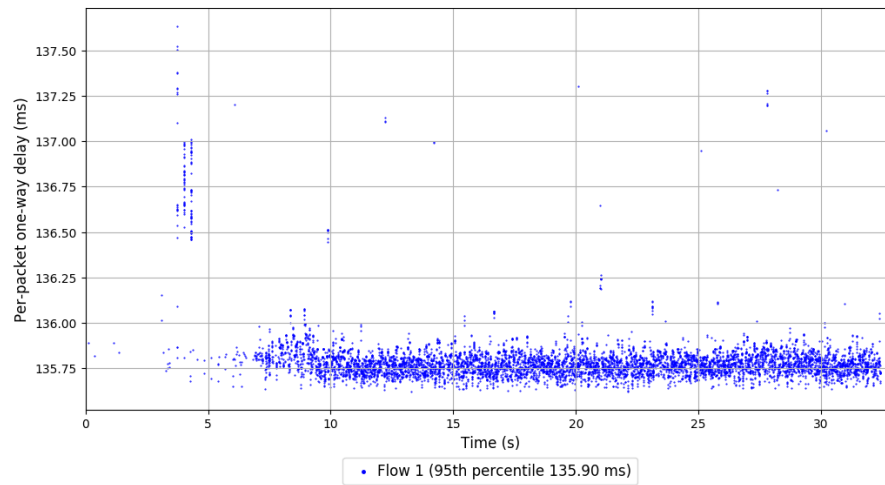
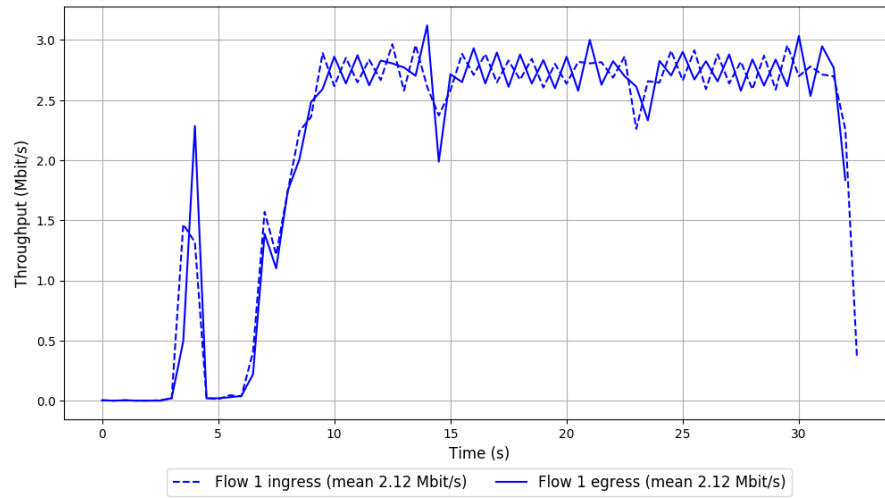
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 135.902 ms

Loss rate: 0.99%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-21 08:25:00

End at: 2017-11-21 08:25:30

Below is generated by plot.py at 2017-11-21 12:00:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.94 Mbit/s

95th percentile per-packet one-way delay: 136.486 ms

Loss rate: 2.53%

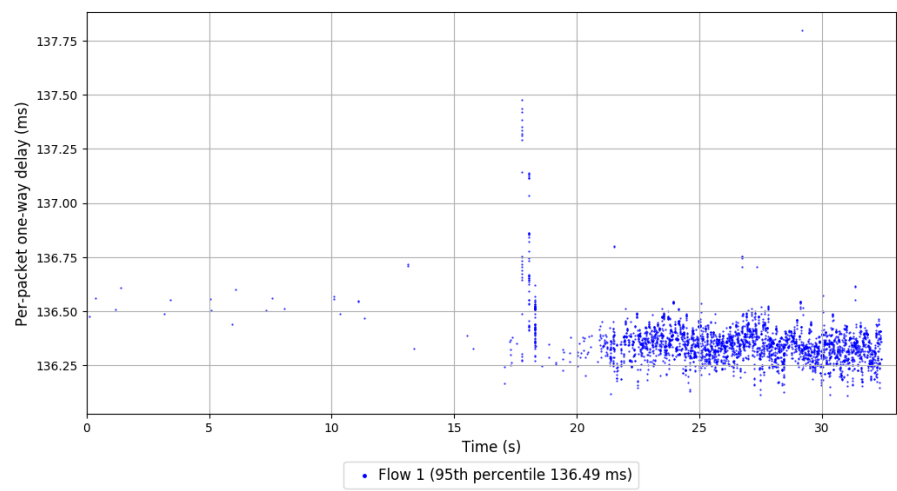
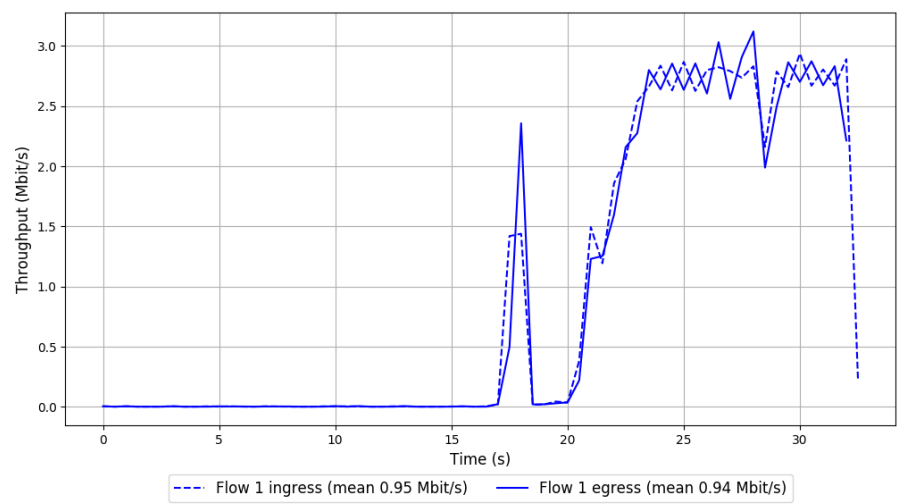
-- Flow 1:

Average throughput: 0.94 Mbit/s

95th percentile per-packet one-way delay: 136.486 ms

Loss rate: 2.53%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-21 08:36:28

End at: 2017-11-21 08:36:58

Below is generated by plot.py at 2017-11-21 12:00:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.441 ms

Loss rate: 1.12%

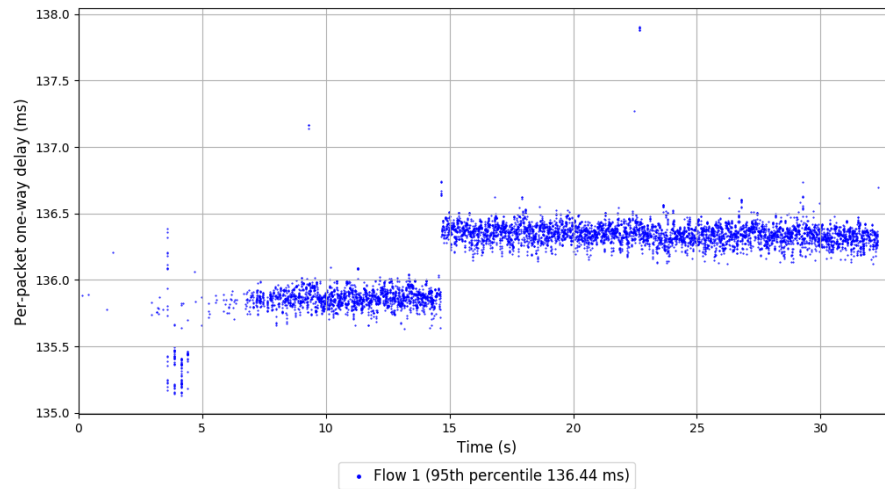
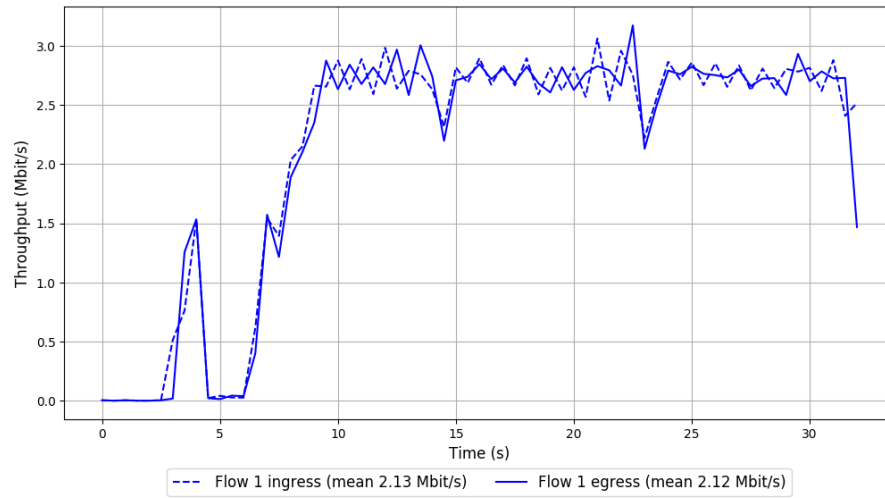
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.441 ms

Loss rate: 1.12%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-21 08:47:54

End at: 2017-11-21 08:48:24

Below is generated by plot.py at 2017-11-21 12:00:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.824 ms

Loss rate: 1.04%

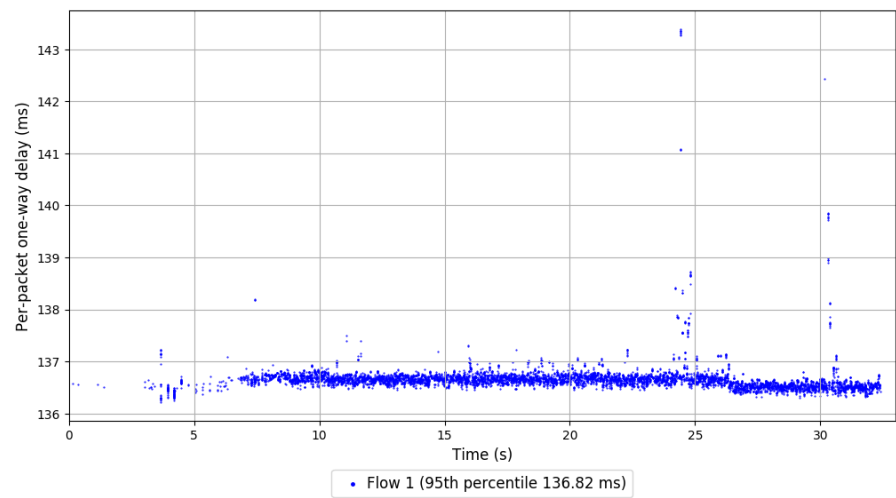
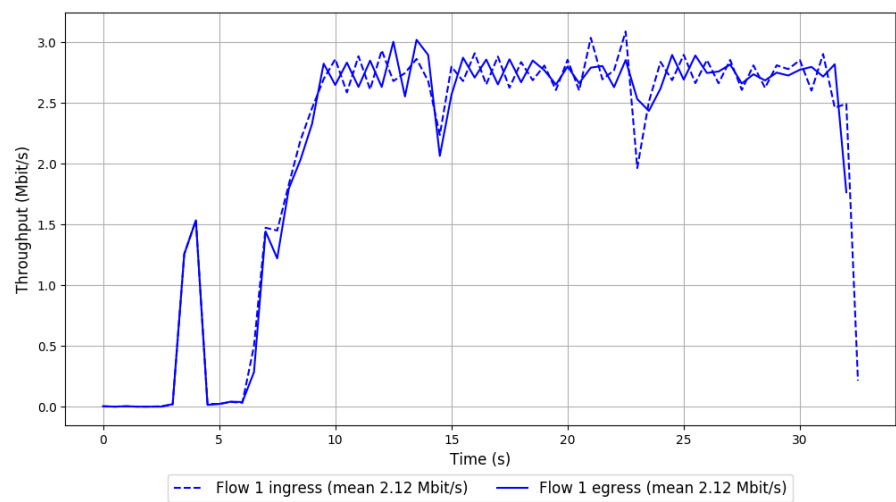
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.824 ms

Loss rate: 1.04%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-21 08:59:07

End at: 2017-11-21 08:59:37

Below is generated by plot.py at 2017-11-21 12:00:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 166.902 ms

Loss rate: 0.87%

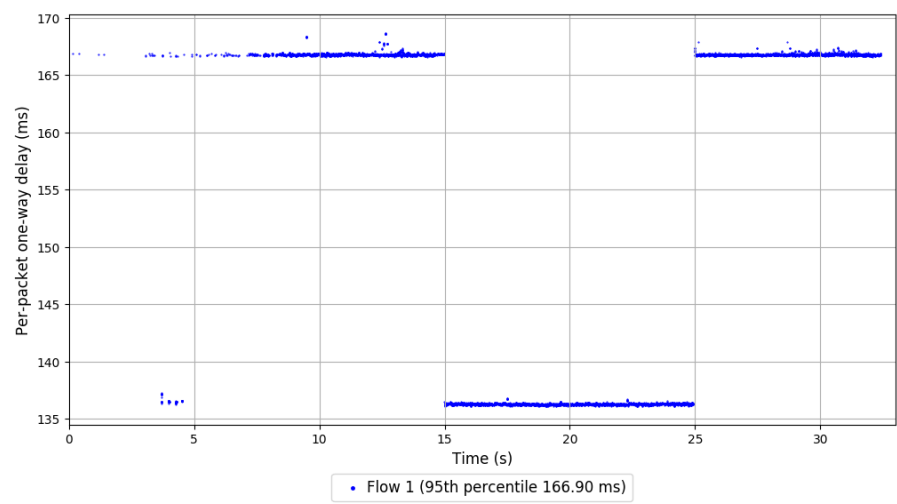
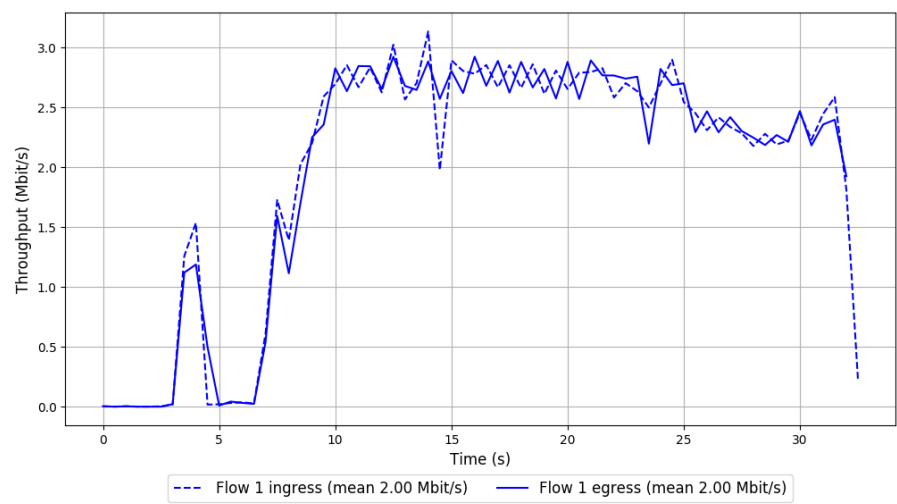
-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 166.902 ms

Loss rate: 0.87%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-21 09:10:27

End at: 2017-11-21 09:10:57

Below is generated by plot.py at 2017-11-21 12:00:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 136.954 ms

Loss rate: 0.91%

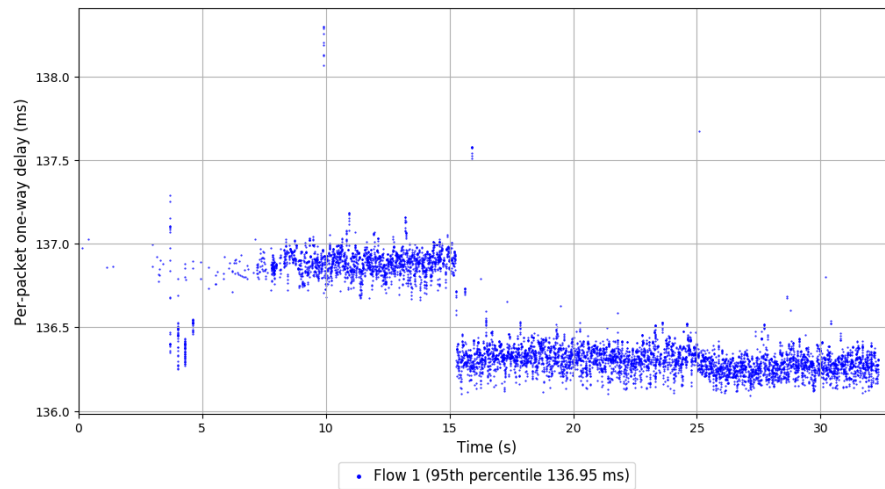
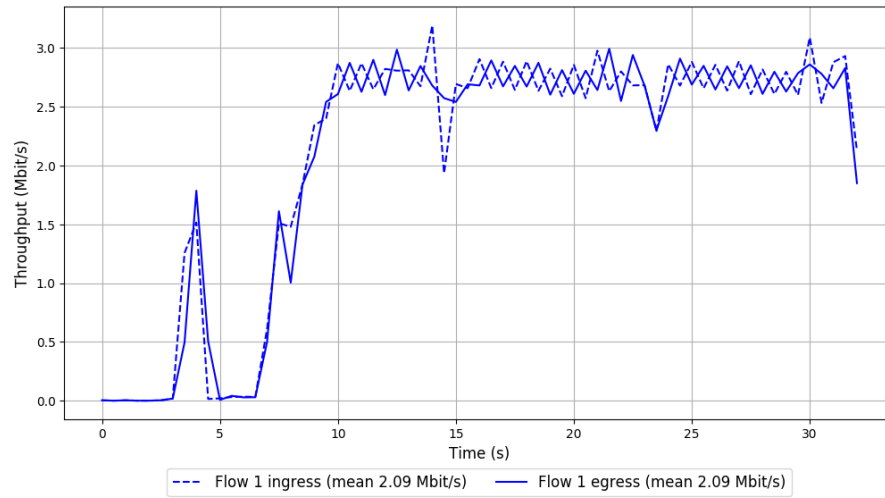
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 136.954 ms

Loss rate: 0.91%

Run 8: Report of WebRTC media — Data Link

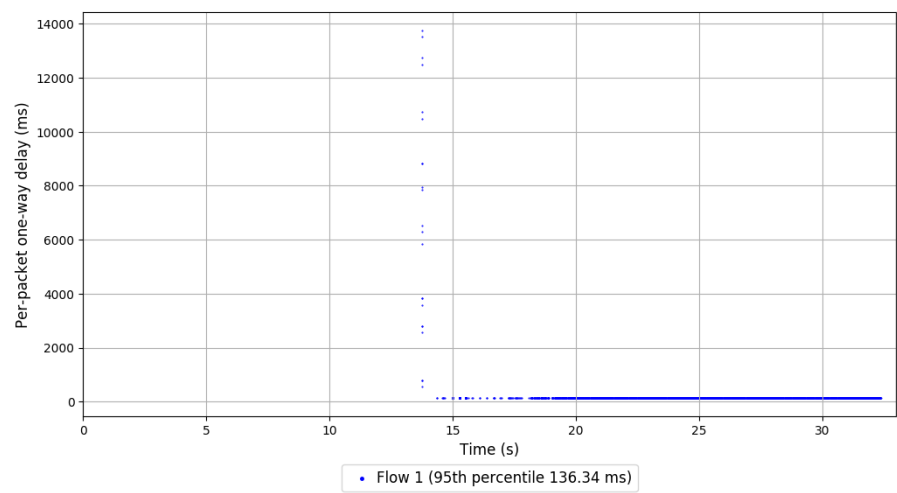
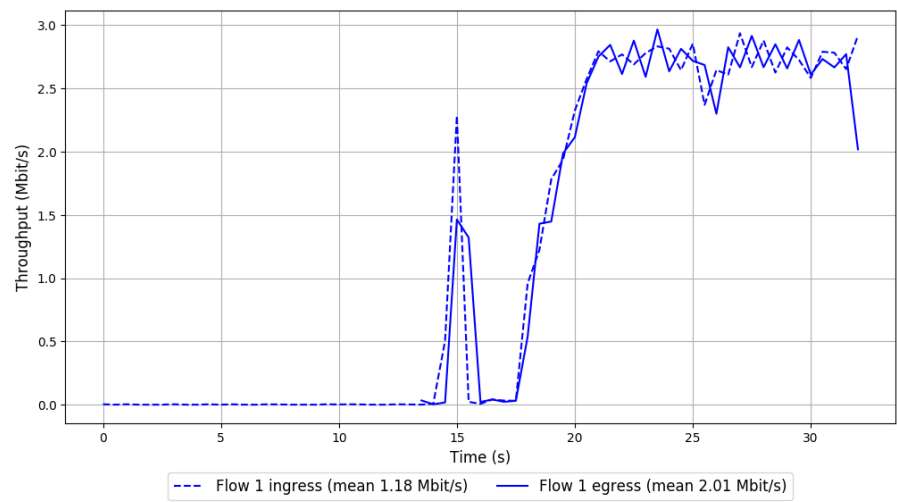


Run 9: Statistics of WebRTC media

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

End at: 2017-11-21 09:22:39

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-21 09:33:37

End at: 2017-11-21 09:34:07

Below is generated by plot.py at 2017-11-21 12:00:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 136.903 ms

Loss rate: 0.95%

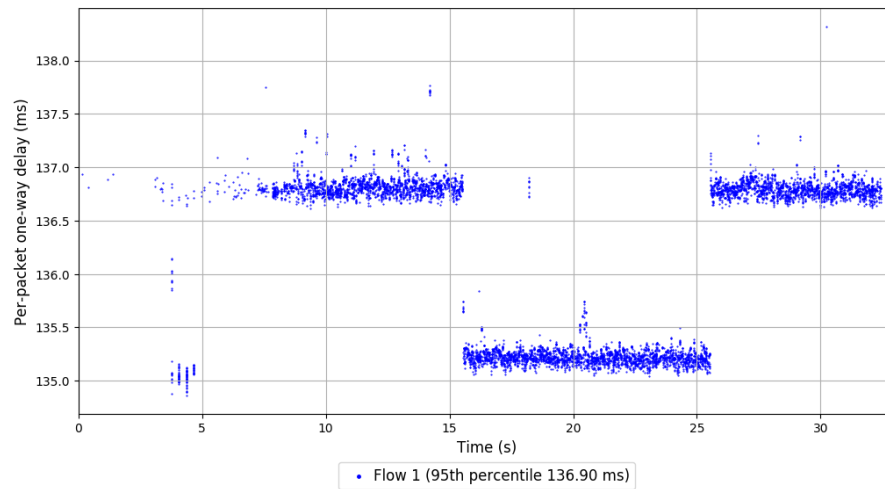
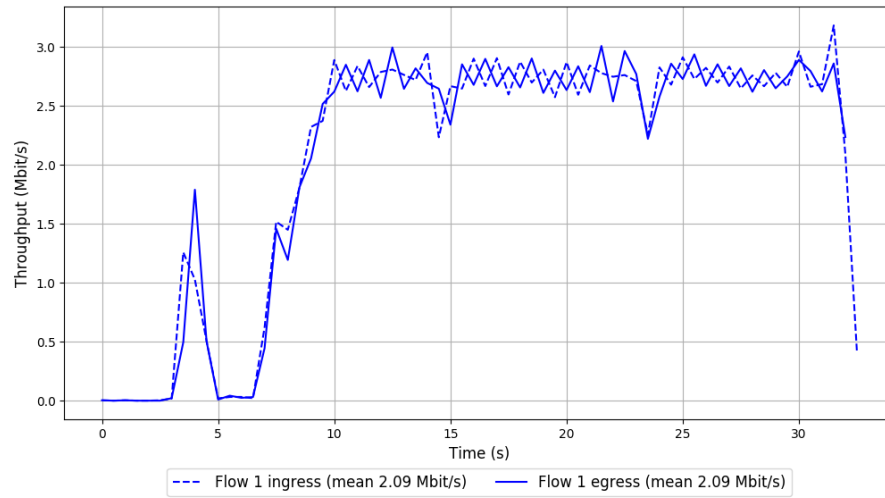
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 136.903 ms

Loss rate: 0.95%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-11-21 07:53:42

End at: 2017-11-21 07:54:12

Below is generated by plot.py at 2017-11-21 12:00:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 165.495 ms

Loss rate: 0.94%

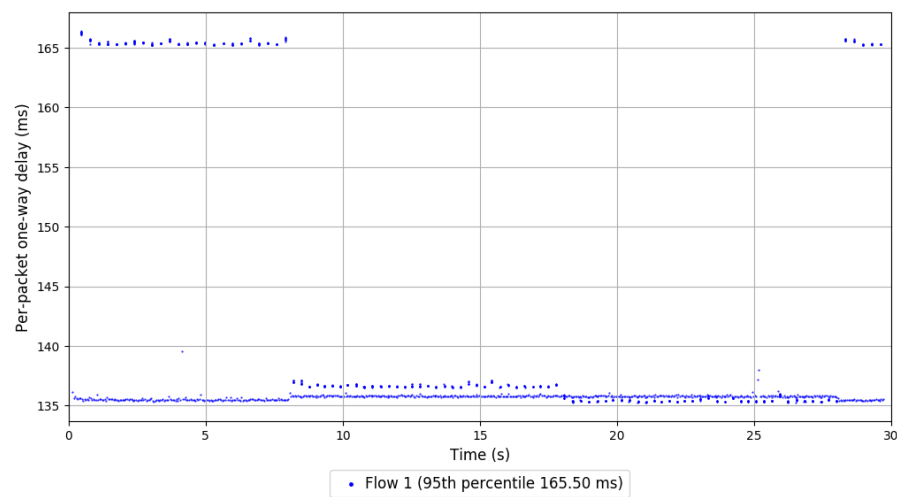
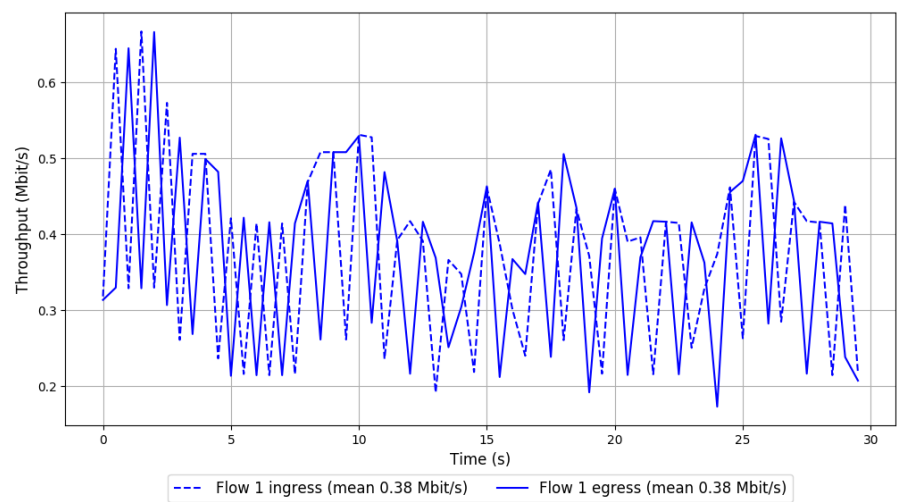
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 165.495 ms

Loss rate: 0.94%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-21 08:05:03

End at: 2017-11-21 08:05:33

Below is generated by plot.py at 2017-11-21 12:00:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 136.835 ms

Loss rate: 1.21%

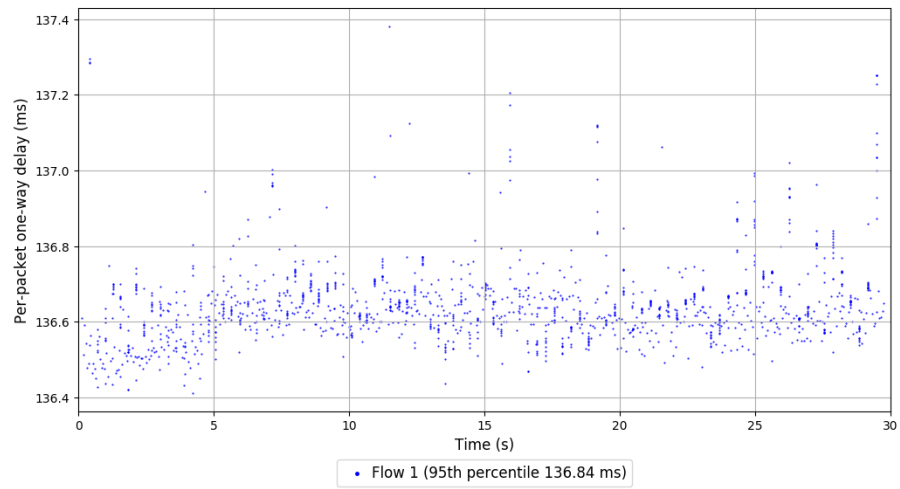
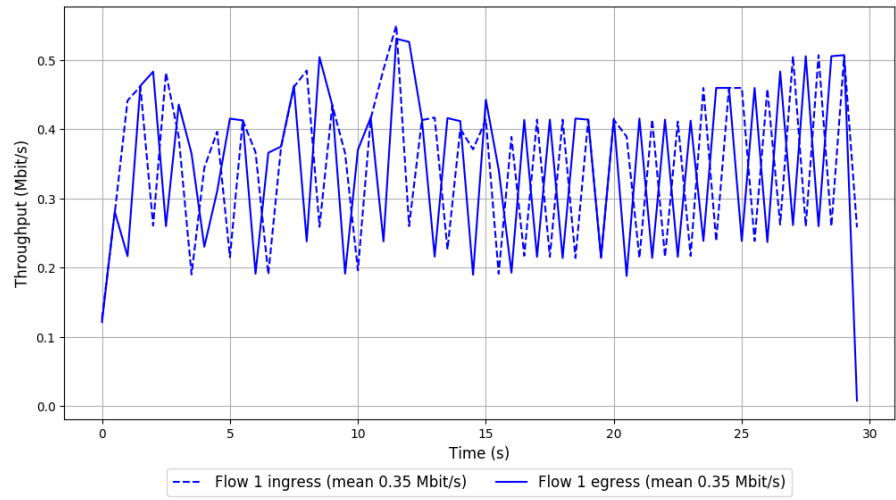
-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 136.835 ms

Loss rate: 1.21%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-21 08:16:22

End at: 2017-11-21 08:16:52

Below is generated by plot.py at 2017-11-21 12:00:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 137.011 ms

Loss rate: 0.99%

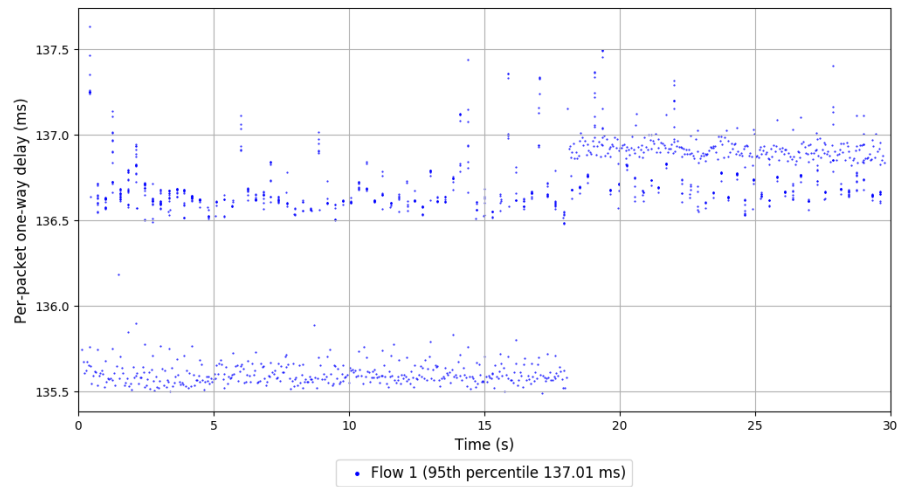
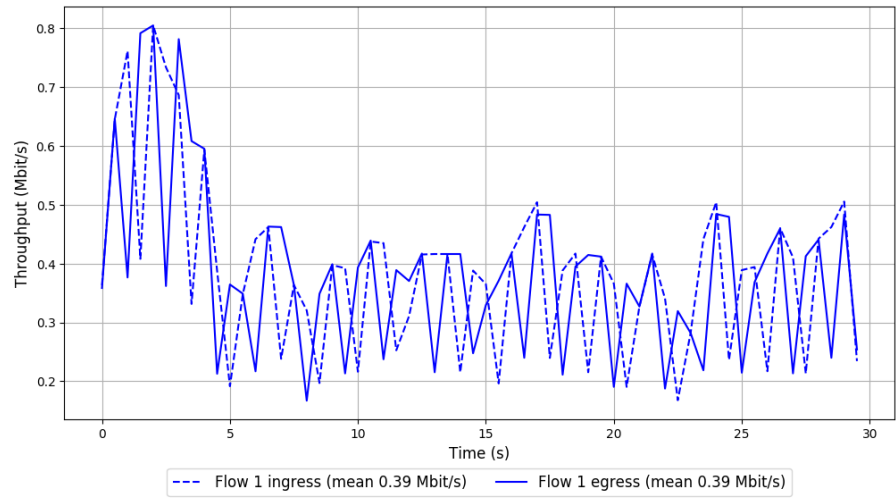
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 137.011 ms

Loss rate: 0.99%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-21 08:28:03

End at: 2017-11-21 08:28:33

Below is generated by plot.py at 2017-11-21 12:00:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.40 Mbit/s

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

Loss rate: 1.24%

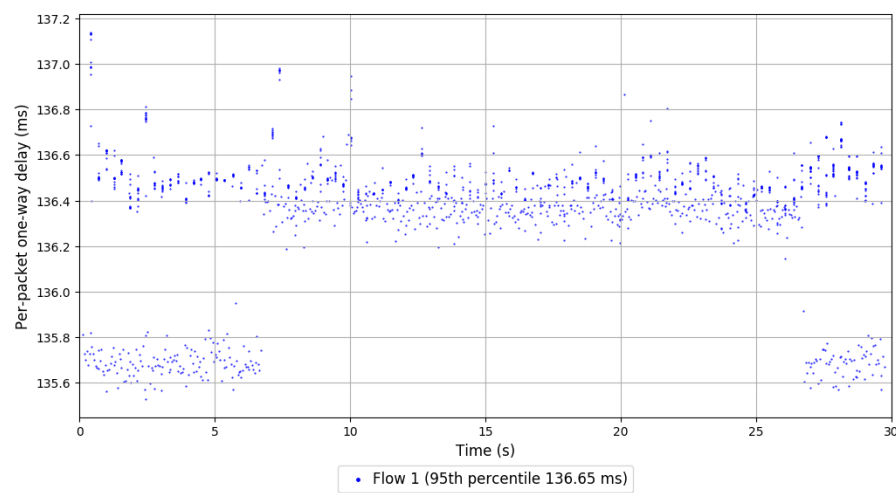
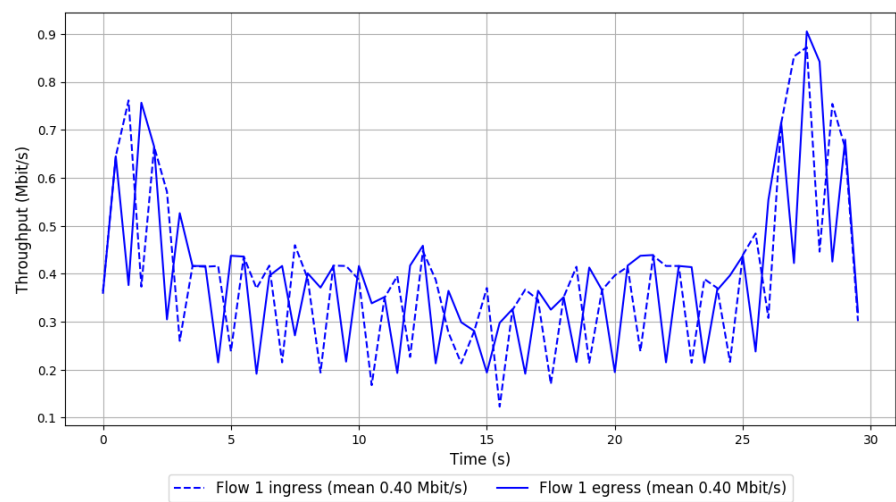
-- Flow 1:

Average throughput: 0.40 Mbit/s

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

Loss rate: 1.24%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-21 08:39:32

End at: 2017-11-21 08:40:02

Below is generated by plot.py at 2017-11-21 12:00:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 137.103 ms

Loss rate: 0.97%

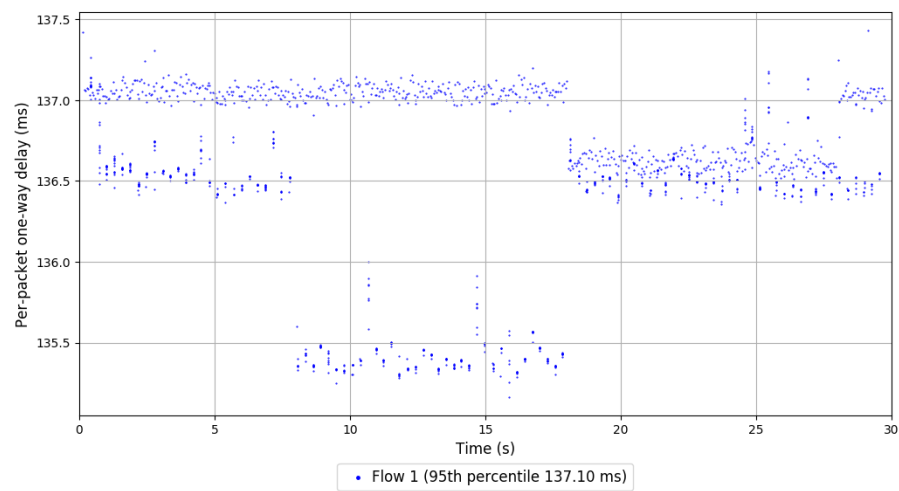
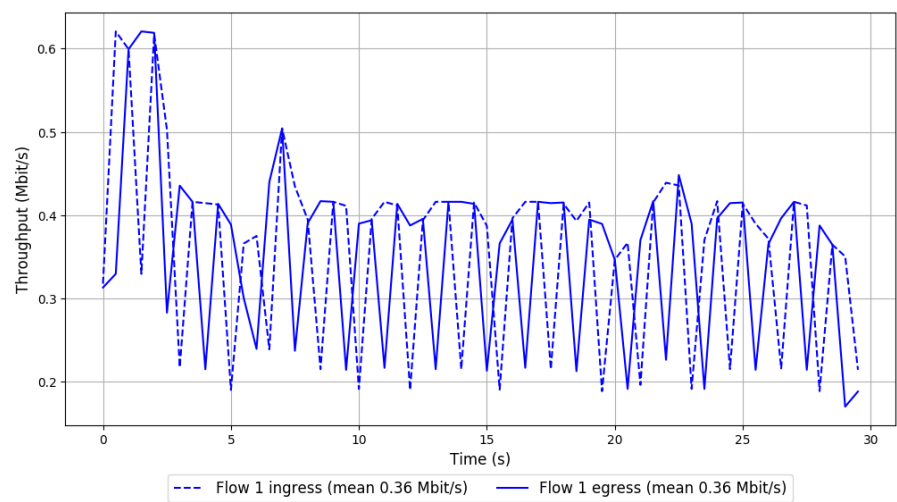
-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 137.103 ms

Loss rate: 0.97%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-21 08:50:59

End at: 2017-11-21 08:51:29

Below is generated by plot.py at 2017-11-21 12:00:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 137.113 ms

Loss rate: 0.84%

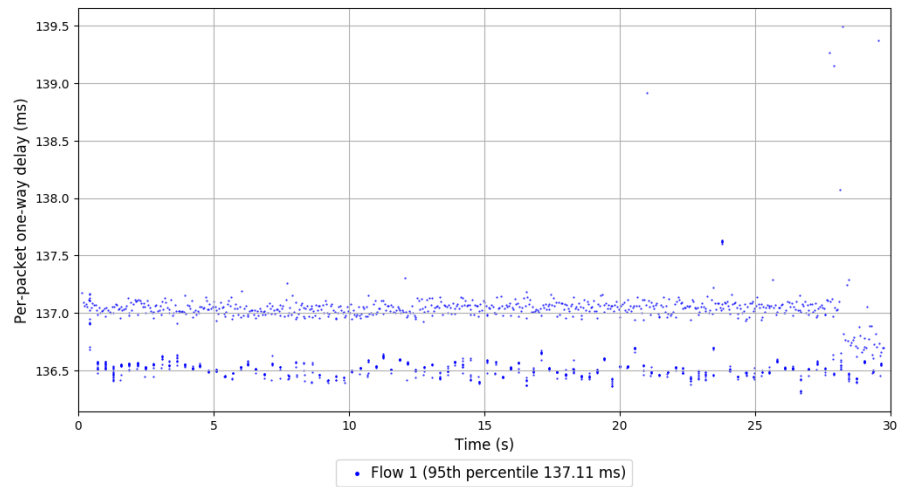
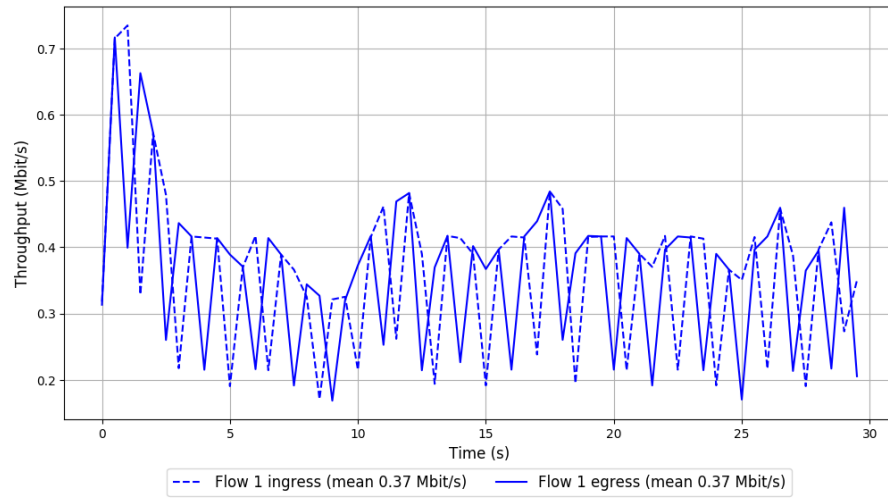
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 137.113 ms

Loss rate: 0.84%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-21 09:02:12

End at: 2017-11-21 09:02:42

Below is generated by plot.py at 2017-11-21 12:00:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 137.121 ms

Loss rate: 0.94%

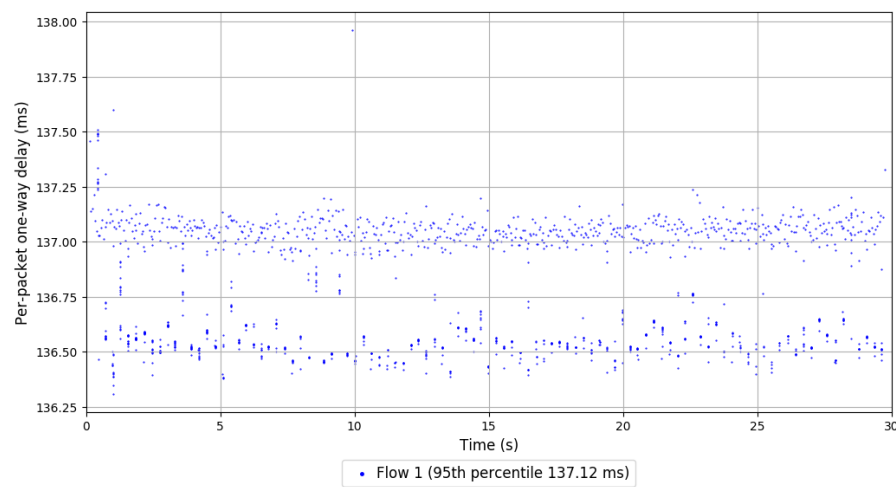
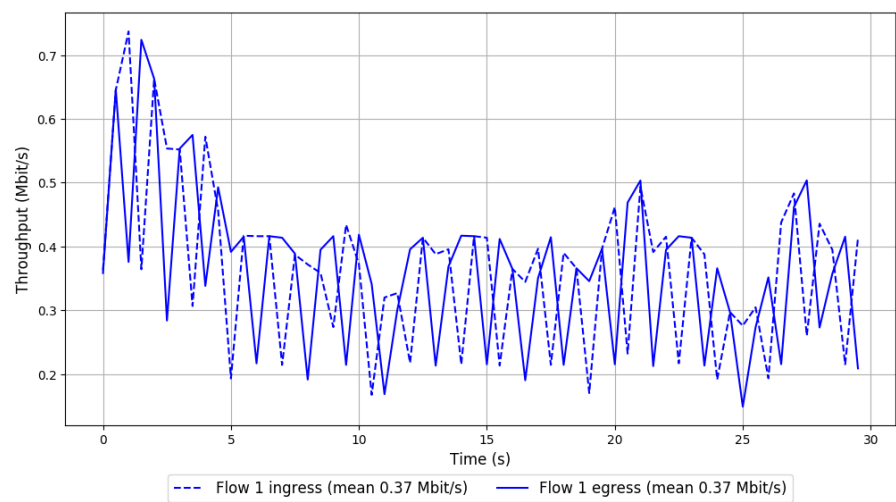
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 137.121 ms

Loss rate: 0.94%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-21 09:13:30

End at: 2017-11-21 09:14:00

Below is generated by plot.py at 2017-11-21 12:00:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.749 ms

Loss rate: 0.88%

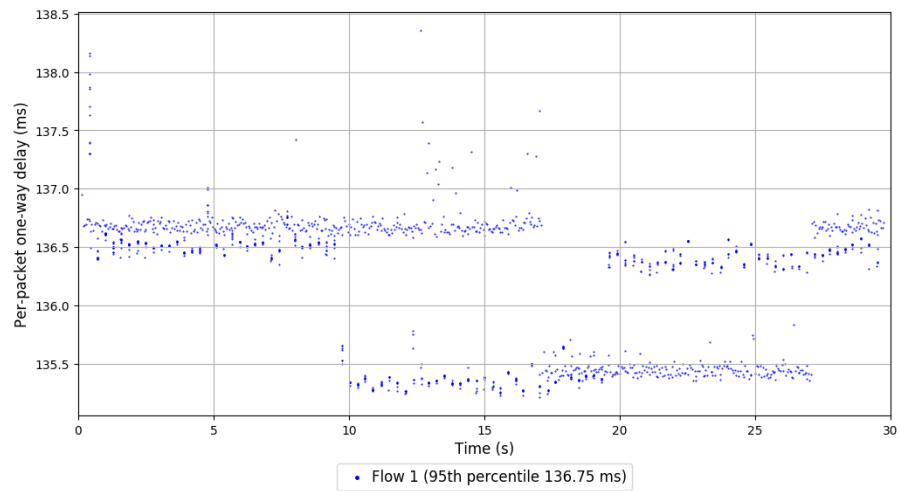
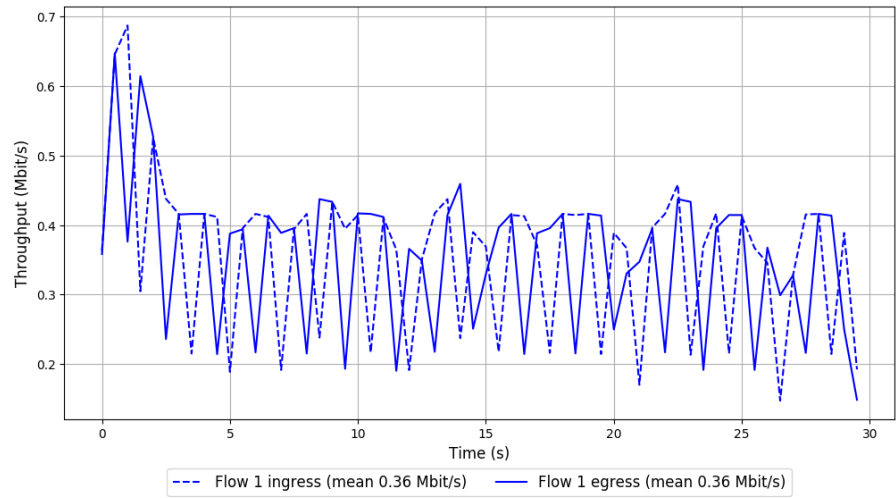
-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.749 ms

Loss rate: 0.88%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-21 09:25:14

End at: 2017-11-21 09:25:44

Below is generated by plot.py at 2017-11-21 12:00:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.220 ms

Loss rate: 0.88%

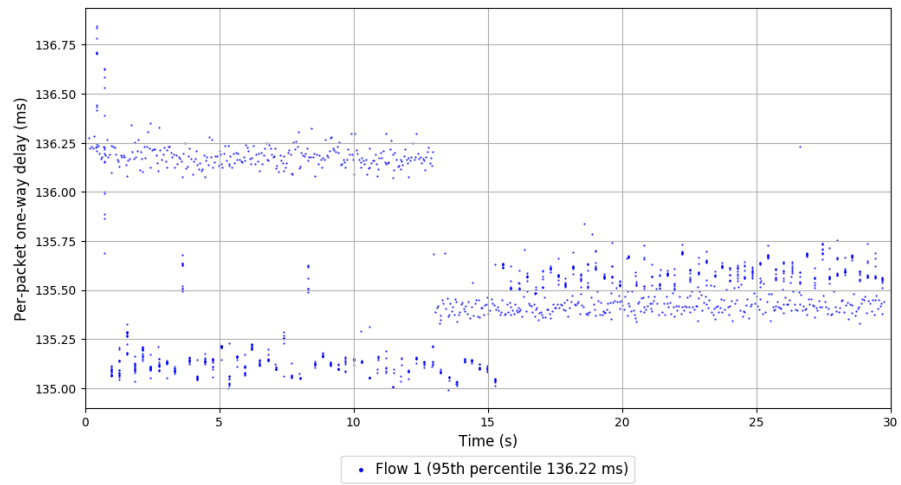
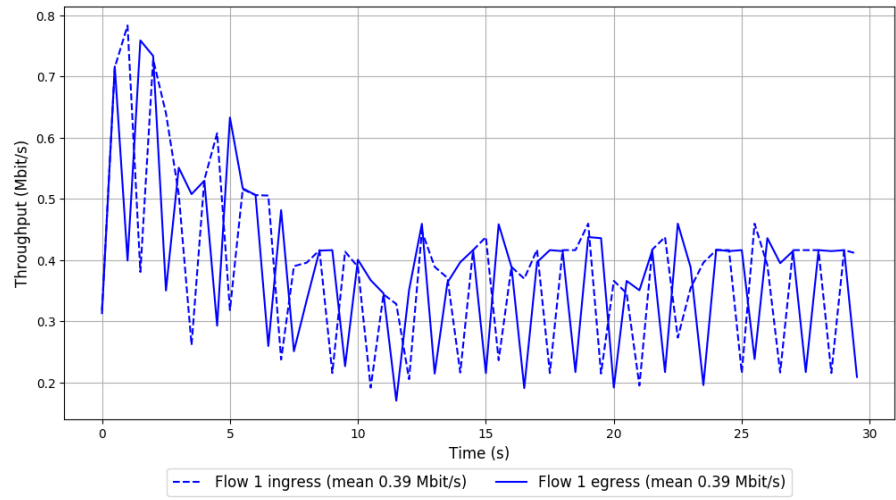
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.220 ms

Loss rate: 0.88%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-21 09:36:41

End at: 2017-11-21 09:37:11

Below is generated by plot.py at 2017-11-21 12:00:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 136.578 ms

Loss rate: 0.86%

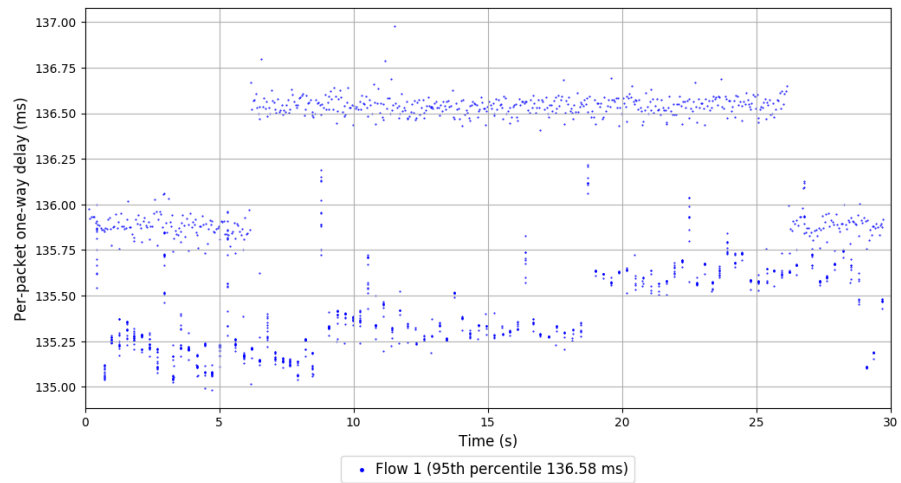
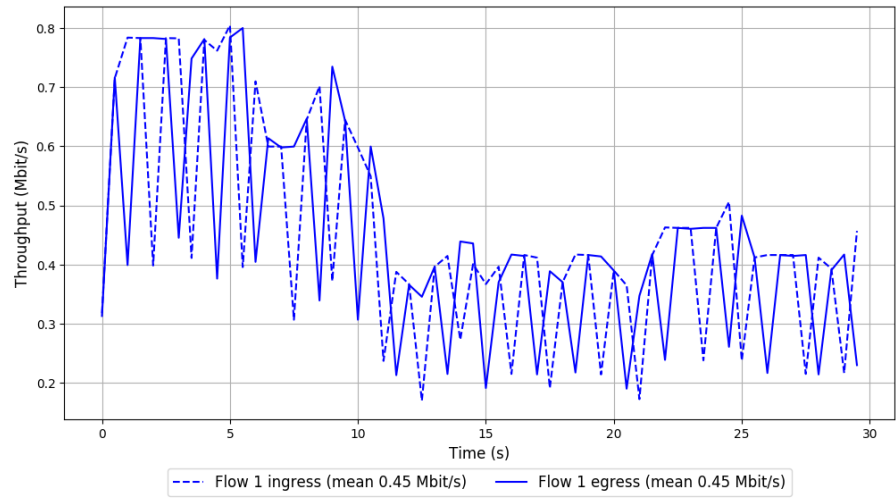
-- Flow 1:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 136.578 ms

Loss rate: 0.86%

Run 10: Report of Sprout — Data Link

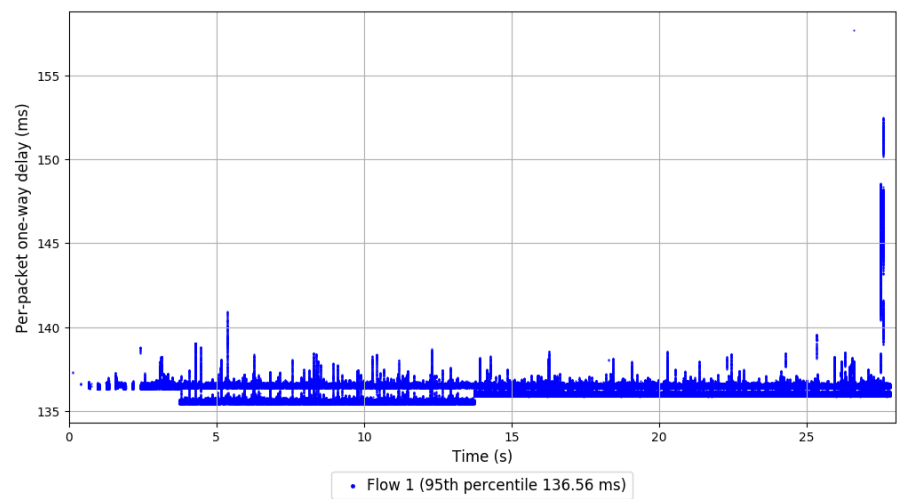
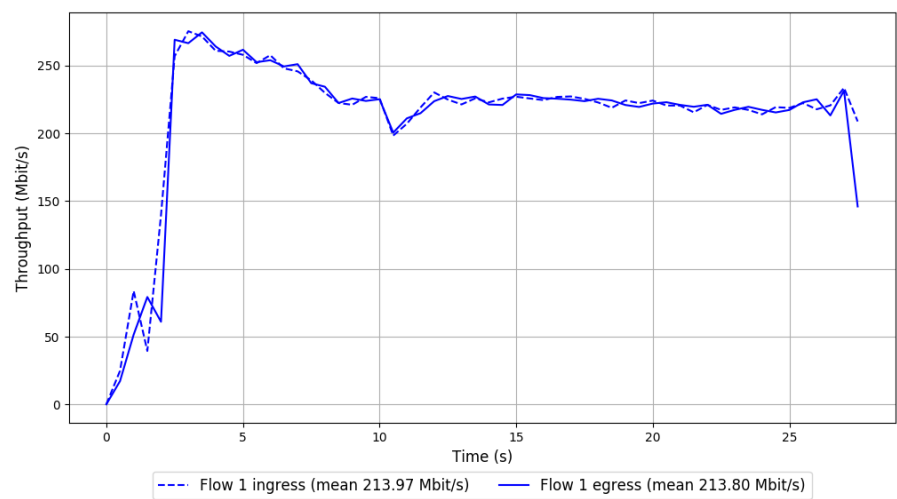


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-21 07:56:54
End at: 2017-11-21 07:57:24

# Below is generated by plot.py at 2017-11-21 12:00:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.80 Mbit/s
95th percentile per-packet one-way delay: 136.564 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 213.80 Mbit/s
95th percentile per-packet one-way delay: 136.564 ms
Loss rate: 1.06%
```


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

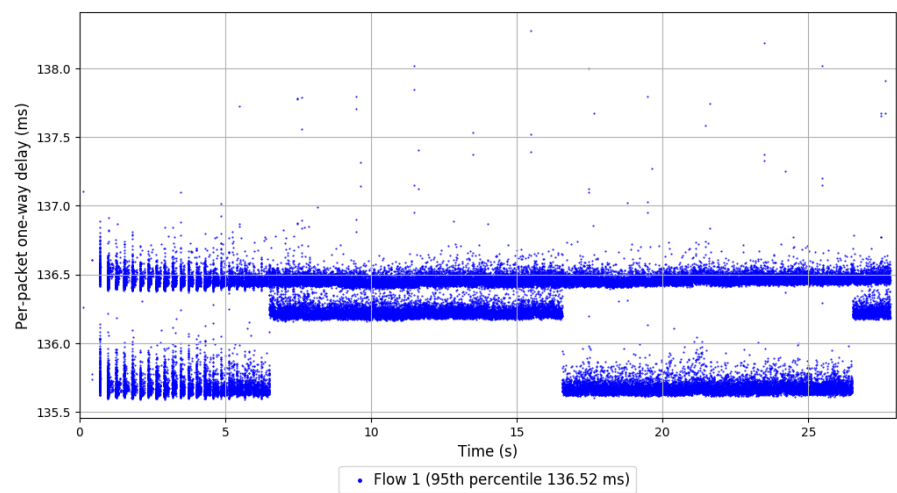
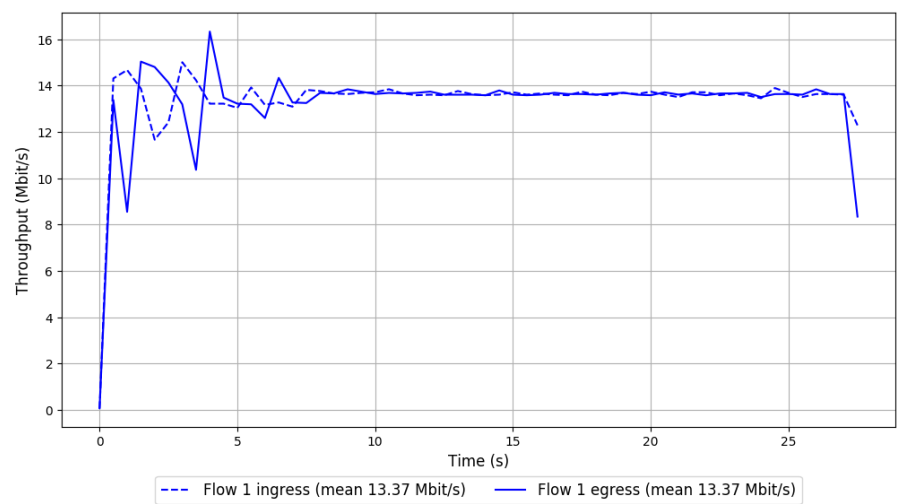


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-21 08:08:19
End at: 2017-11-21 08:08:49

# Below is generated by plot.py at 2017-11-21 12:00:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.37 Mbit/s
95th percentile per-packet one-way delay: 136.519 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 13.37 Mbit/s
95th percentile per-packet one-way delay: 136.519 ms
Loss rate: 1.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-11-21 08:19:40

End at: 2017-11-21 08:20:10

Below is generated by plot.py at 2017-11-21 12:00:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.43 Mbit/s

95th percentile per-packet one-way delay: 136.655 ms

Loss rate: 0.96%

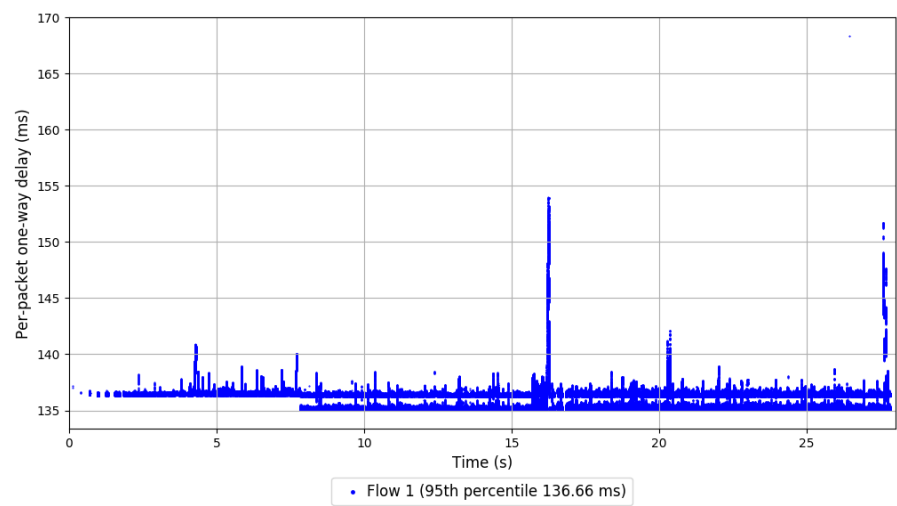
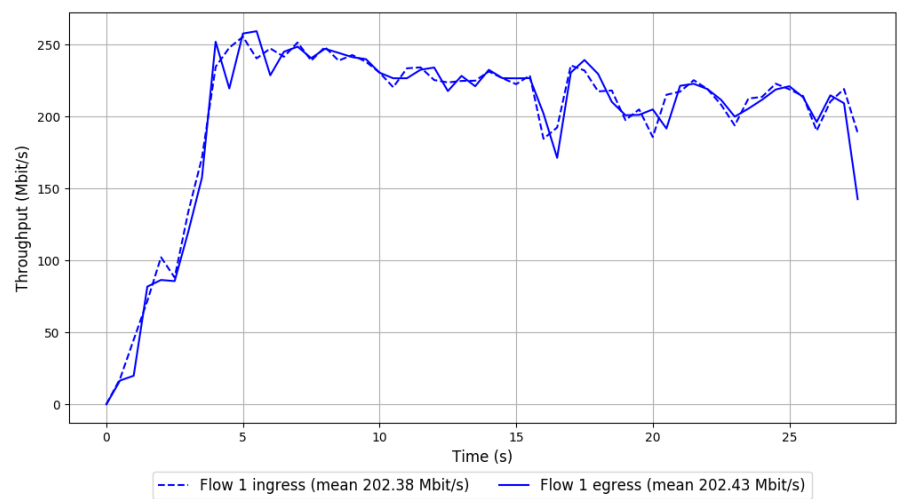
-- Flow 1:

Average throughput: 202.43 Mbit/s

95th percentile per-packet one-way delay: 136.655 ms

Loss rate: 0.96%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-21 08:31:19

End at: 2017-11-21 08:31:49

Below is generated by plot.py at 2017-11-21 12:00:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.28 Mbit/s

95th percentile per-packet one-way delay: 136.477 ms

Loss rate: 1.02%

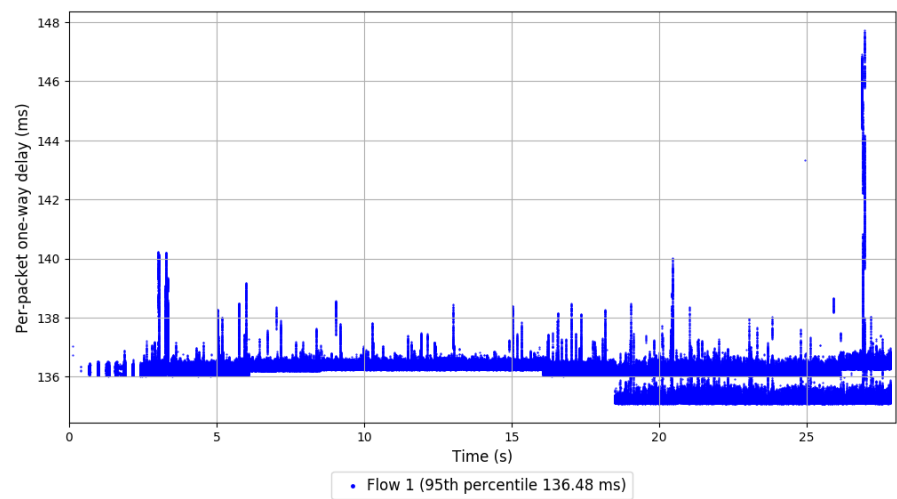
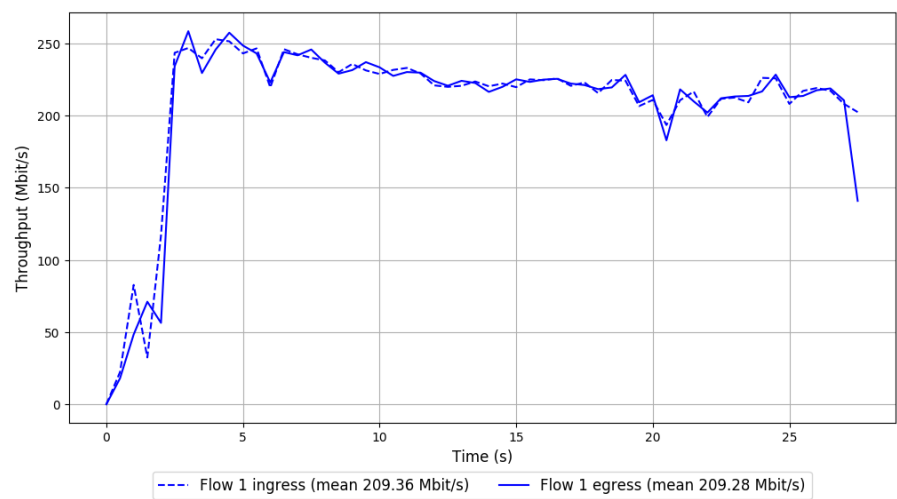
-- Flow 1:

Average throughput: 209.28 Mbit/s

95th percentile per-packet one-way delay: 136.477 ms

Loss rate: 1.02%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-21 08:42:49

End at: 2017-11-21 08:43:19

Below is generated by plot.py at 2017-11-21 12:00:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.35 Mbit/s

95th percentile per-packet one-way delay: 136.731 ms

Loss rate: 1.07%

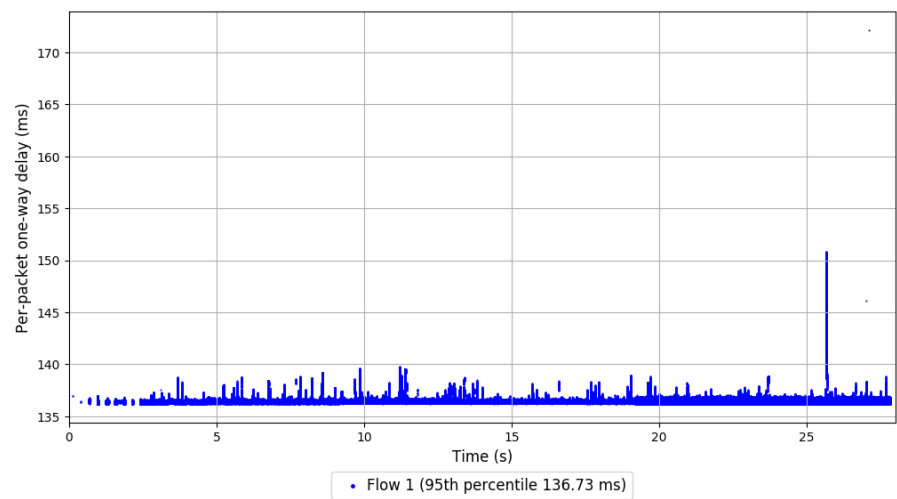
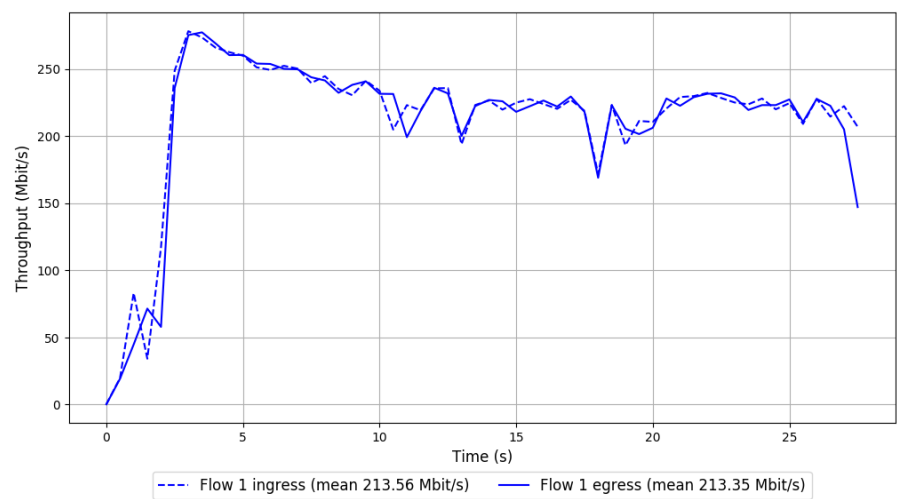
-- Flow 1:

Average throughput: 213.35 Mbit/s

95th percentile per-packet one-way delay: 136.731 ms

Loss rate: 1.07%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-21 08:54:16

End at: 2017-11-21 08:54:46

Below is generated by plot.py at 2017-11-21 12:00:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.91 Mbit/s

95th percentile per-packet one-way delay: 136.552 ms

Loss rate: 1.02%

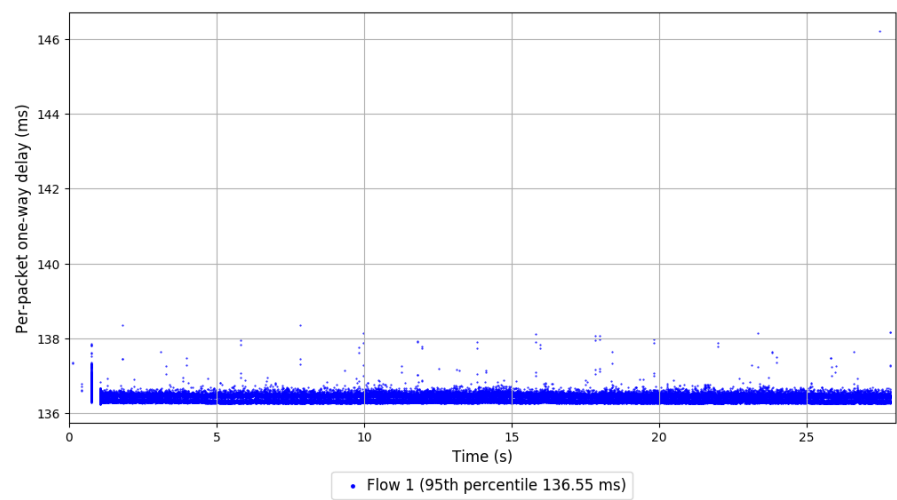
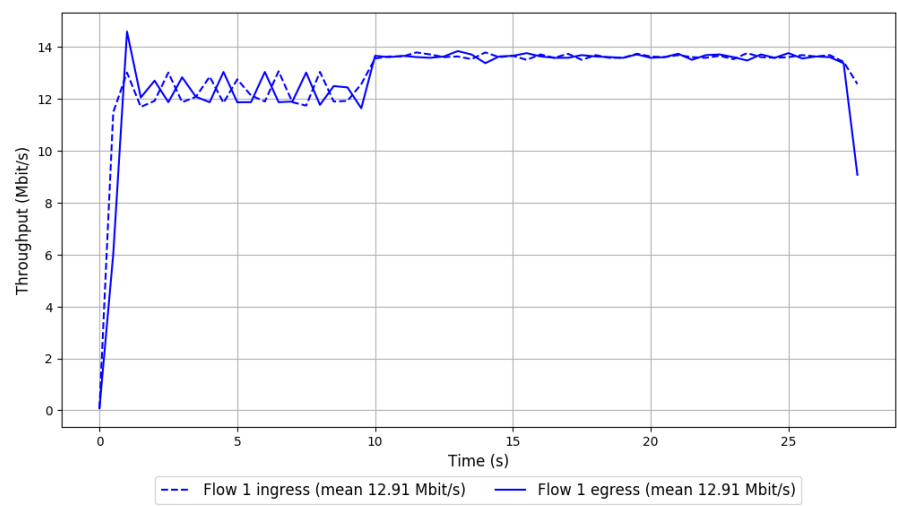
-- Flow 1:

Average throughput: 12.91 Mbit/s

95th percentile per-packet one-way delay: 136.552 ms

Loss rate: 1.02%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-21 09:05:28

End at: 2017-11-21 09:05:58

Below is generated by plot.py at 2017-11-21 12:00:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.35 Mbit/s

95th percentile per-packet one-way delay: 136.297 ms

Loss rate: 1.08%

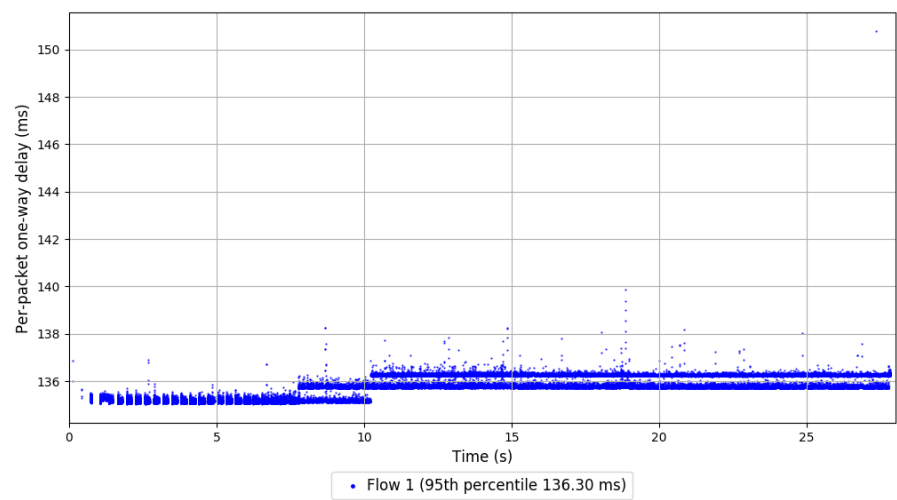
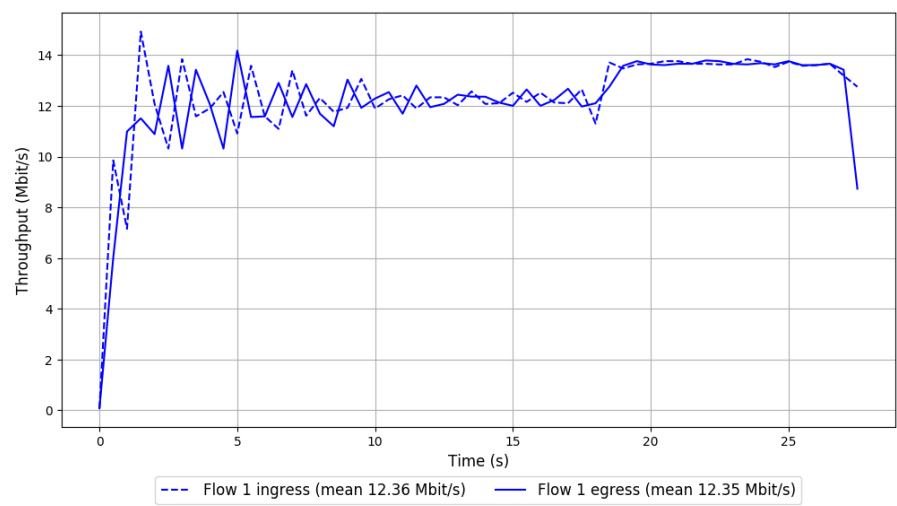
-- Flow 1:

Average throughput: 12.35 Mbit/s

95th percentile per-packet one-way delay: 136.297 ms

Loss rate: 1.08%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-21 09:16:47

End at: 2017-11-21 09:17:18

Below is generated by plot.py at 2017-11-21 12:00:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.55 Mbit/s

95th percentile per-packet one-way delay: 137.148 ms

Loss rate: 1.03%

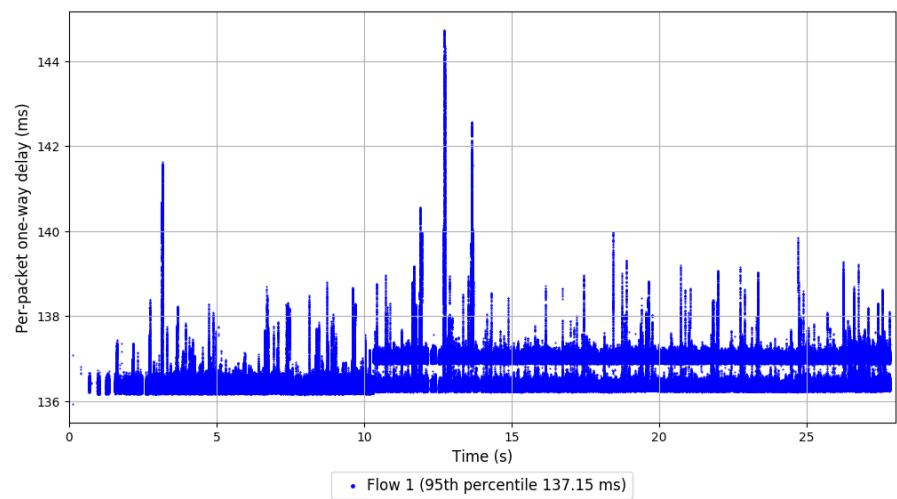
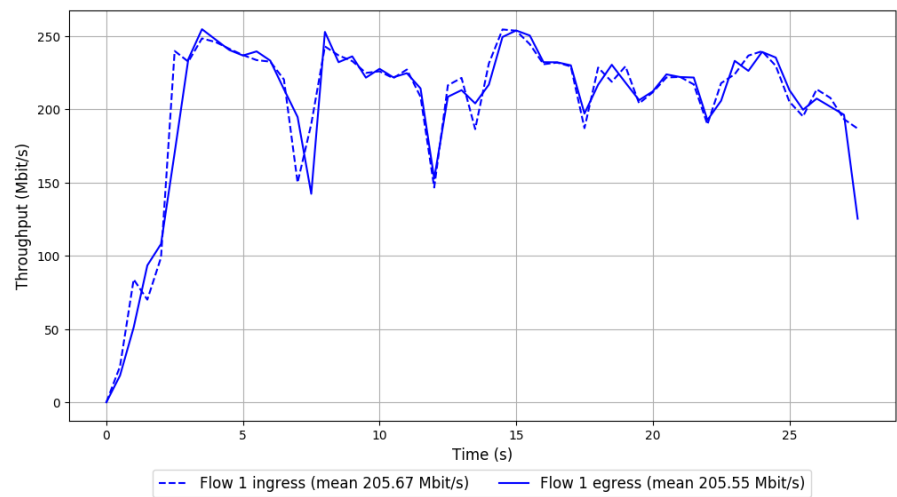
-- Flow 1:

Average throughput: 205.55 Mbit/s

95th percentile per-packet one-way delay: 137.148 ms

Loss rate: 1.03%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-21 09:28:32

End at: 2017-11-21 09:29:02

Below is generated by plot.py at 2017-11-21 12:00:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.23 Mbit/s

95th percentile per-packet one-way delay: 136.721 ms

Loss rate: 1.21%

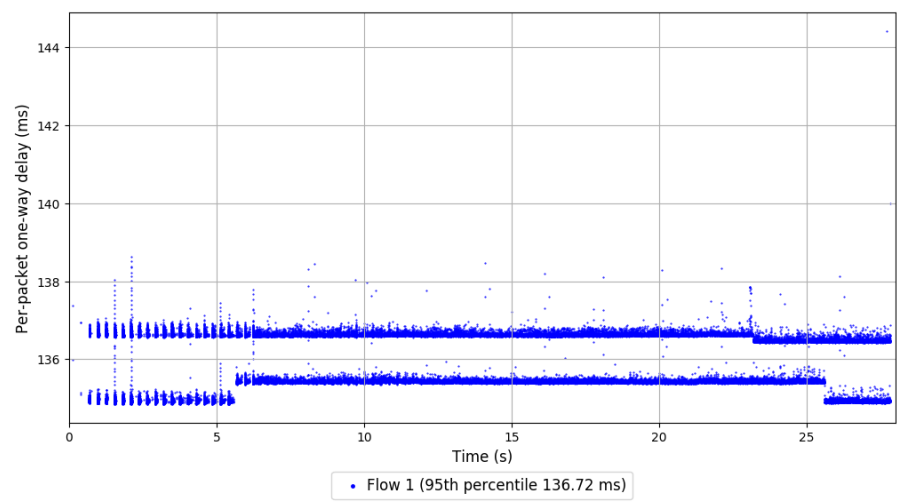
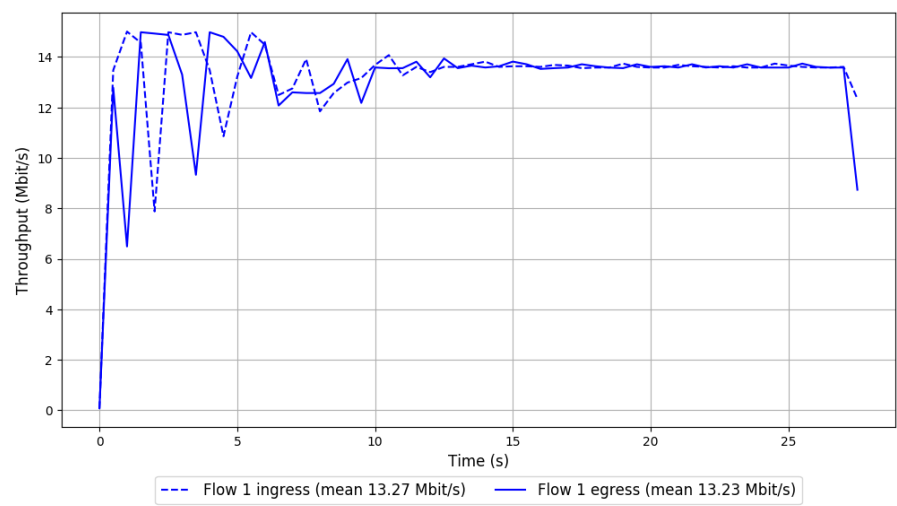
-- Flow 1:

Average throughput: 13.23 Mbit/s

95th percentile per-packet one-way delay: 136.721 ms

Loss rate: 1.21%

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

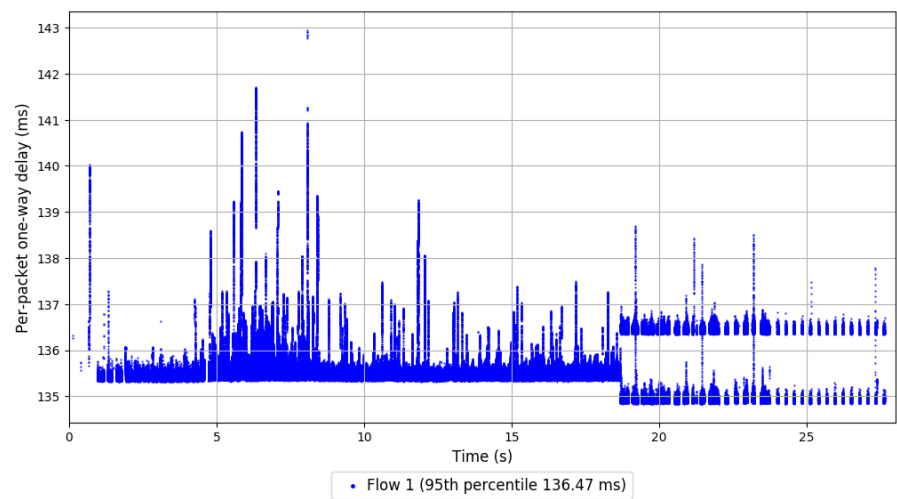
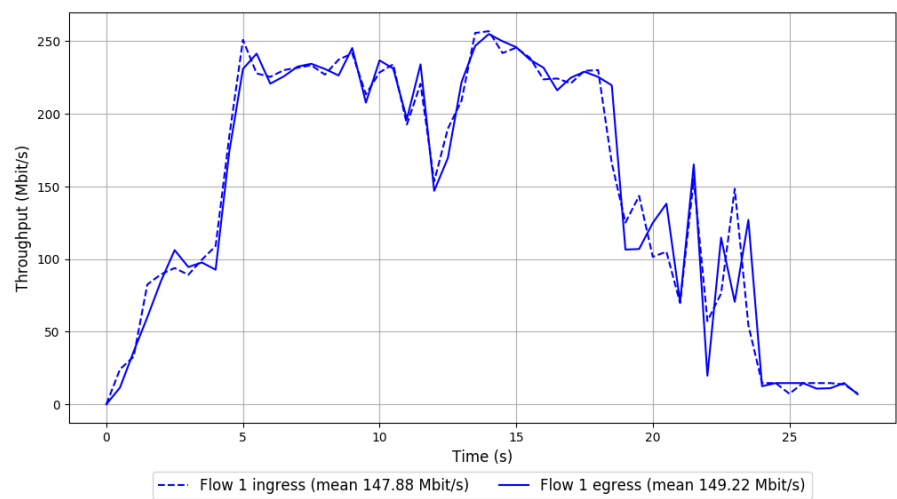


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-21 09:39:59
End at: 2017-11-21 09:40:29

# Below is generated by plot.py at 2017-11-21 12:00:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 149.22 Mbit/s
95th percentile per-packet one-way delay: 136.468 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 149.22 Mbit/s
95th percentile per-packet one-way delay: 136.468 ms
Loss rate: 0.08%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-21 07:52:09

End at: 2017-11-21 07:52:39

Below is generated by plot.py at 2017-11-21 12:00:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.17 Mbit/s

95th percentile per-packet one-way delay: 137.276 ms

Loss rate: 0.88%

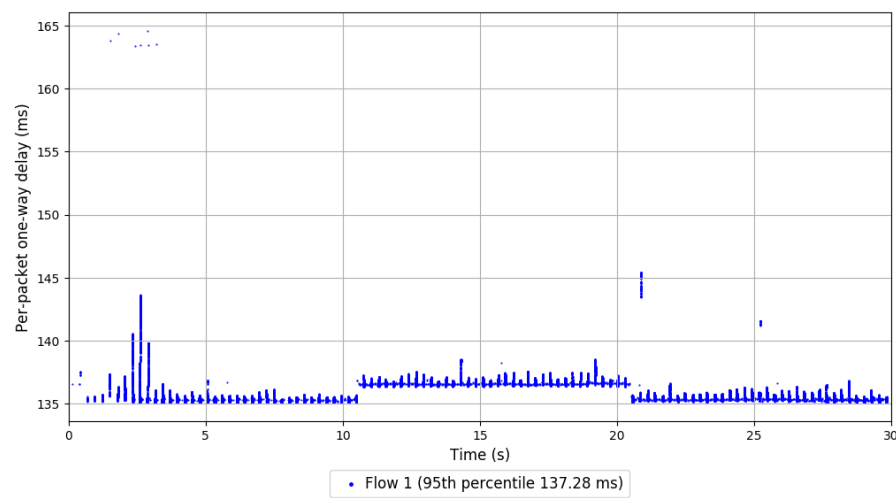
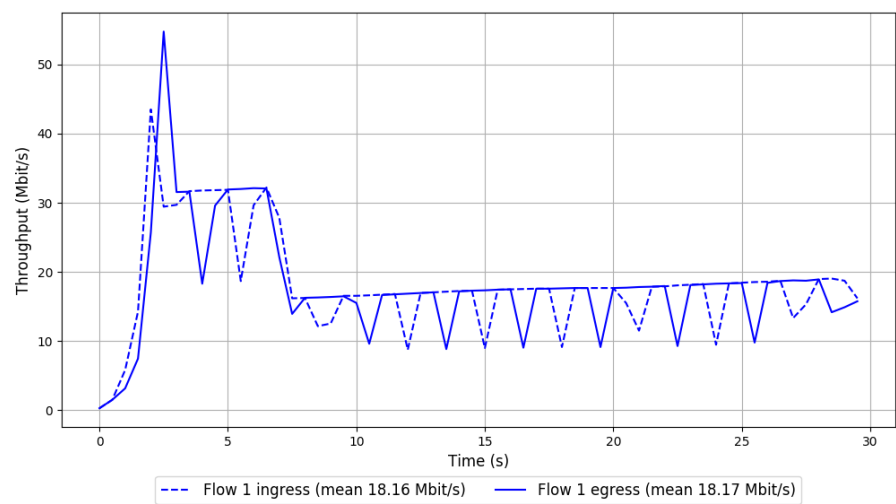
-- Flow 1:

Average throughput: 18.17 Mbit/s

95th percentile per-packet one-way delay: 137.276 ms

Loss rate: 0.88%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-21 08:03:24

End at: 2017-11-21 08:03:54

Below is generated by plot.py at 2017-11-21 12:00:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.44 Mbit/s

95th percentile per-packet one-way delay: 139.358 ms

Loss rate: 0.70%

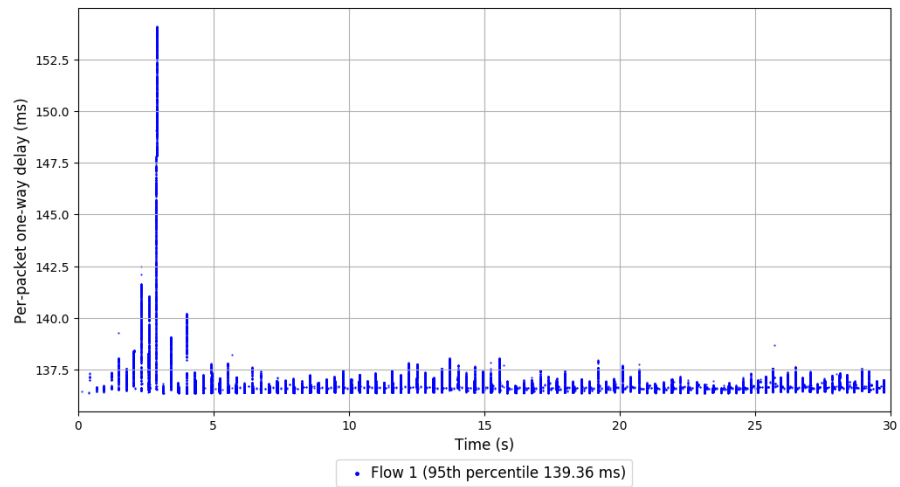
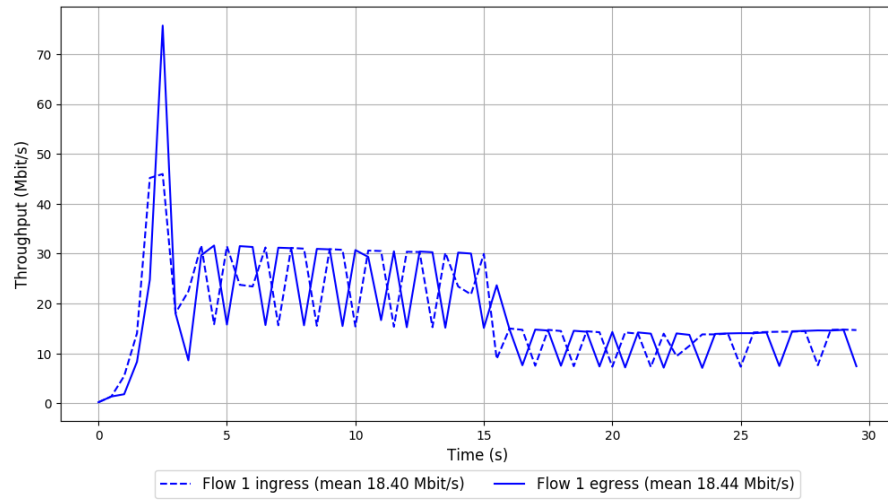
-- Flow 1:

Average throughput: 18.44 Mbit/s

95th percentile per-packet one-way delay: 139.358 ms

Loss rate: 0.70%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-21 08:14:42

End at: 2017-11-21 08:15:12

Below is generated by plot.py at 2017-11-21 12:00:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.97 Mbit/s

95th percentile per-packet one-way delay: 138.700 ms

Loss rate: 1.00%

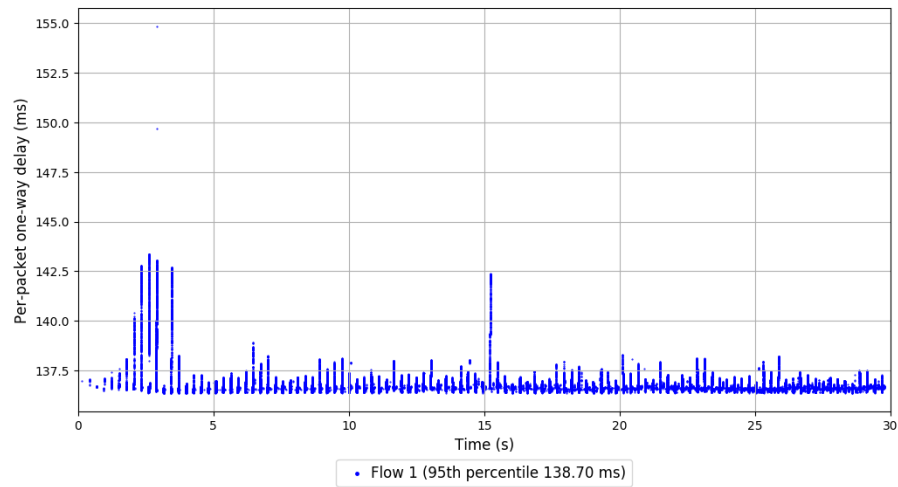
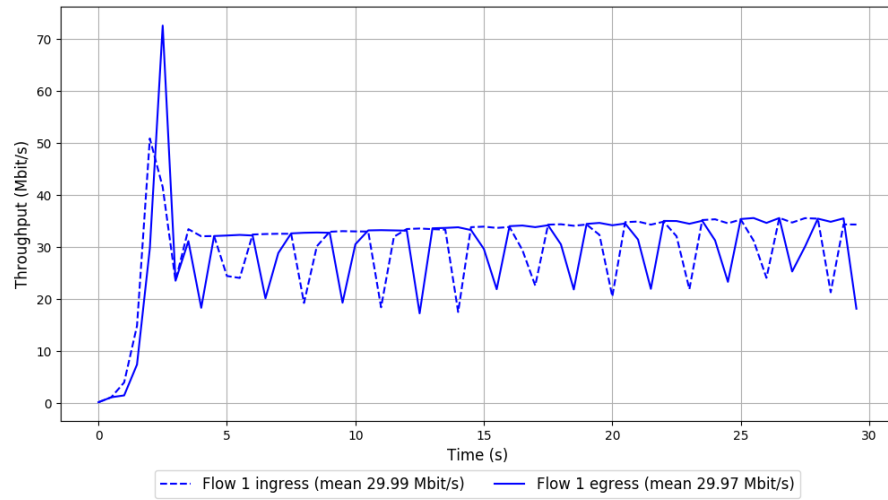
-- Flow 1:

Average throughput: 29.97 Mbit/s

95th percentile per-packet one-way delay: 138.700 ms

Loss rate: 1.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-21 08:26:24

End at: 2017-11-21 08:26:54

Below is generated by plot.py at 2017-11-21 12:00:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.82 Mbit/s

95th percentile per-packet one-way delay: 140.423 ms

Loss rate: 0.80%

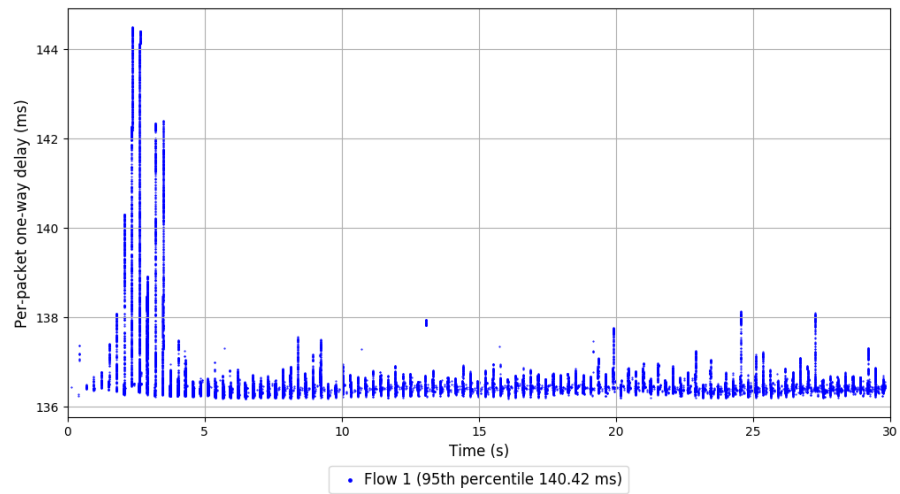
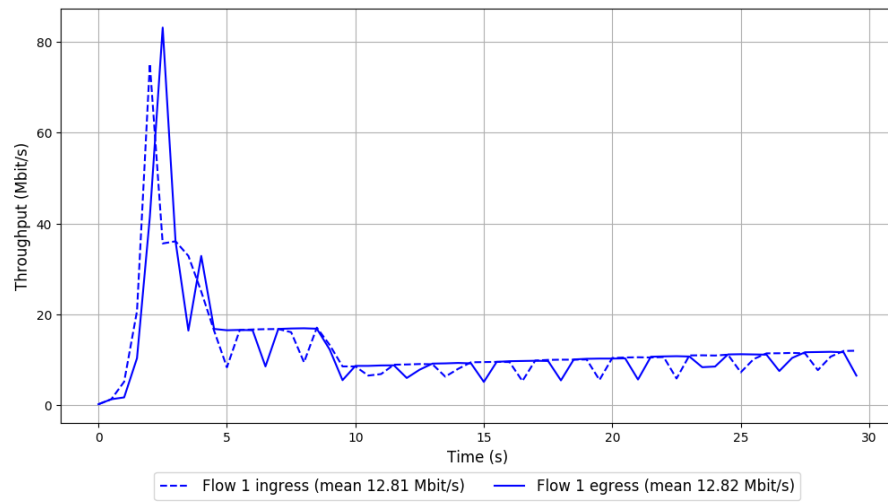
-- Flow 1:

Average throughput: 12.82 Mbit/s

95th percentile per-packet one-way delay: 140.423 ms

Loss rate: 0.80%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-21 08:37:53

End at: 2017-11-21 08:38:23

Below is generated by plot.py at 2017-11-21 12:00:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.02 Mbit/s

95th percentile per-packet one-way delay: 143.276 ms

Loss rate: 0.35%

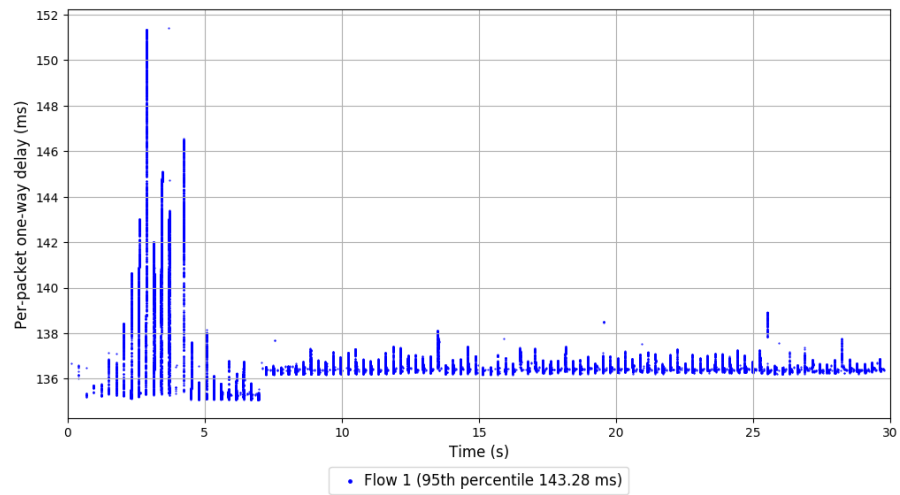
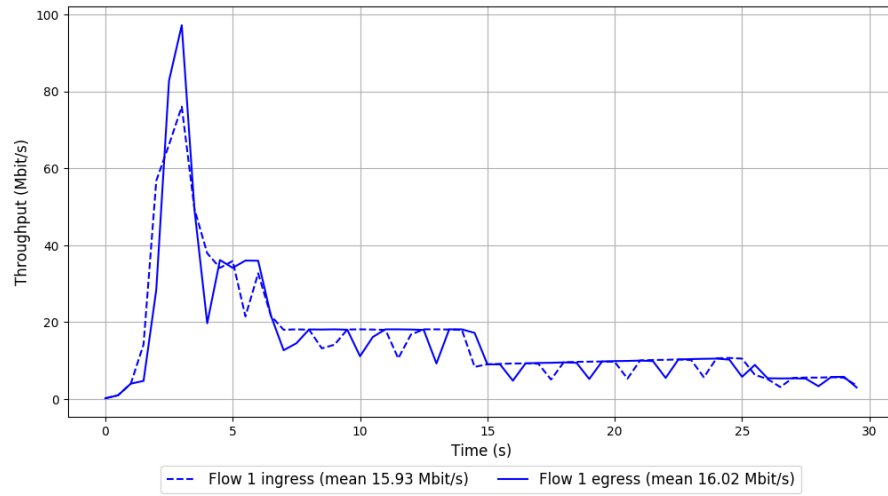
-- Flow 1:

Average throughput: 16.02 Mbit/s

95th percentile per-packet one-way delay: 143.276 ms

Loss rate: 0.35%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-21 08:49:19

End at: 2017-11-21 08:49:49

Below is generated by plot.py at 2017-11-21 12:00:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.85 Mbit/s

95th percentile per-packet one-way delay: 138.208 ms

Loss rate: 0.60%

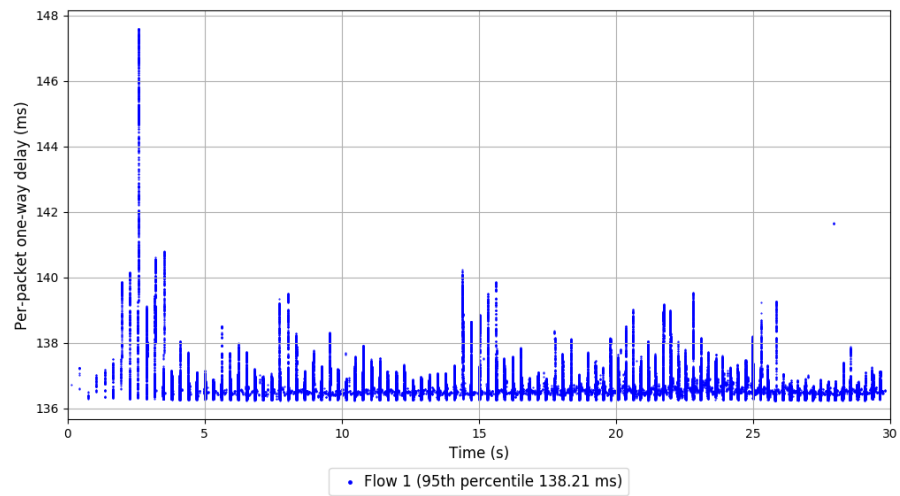
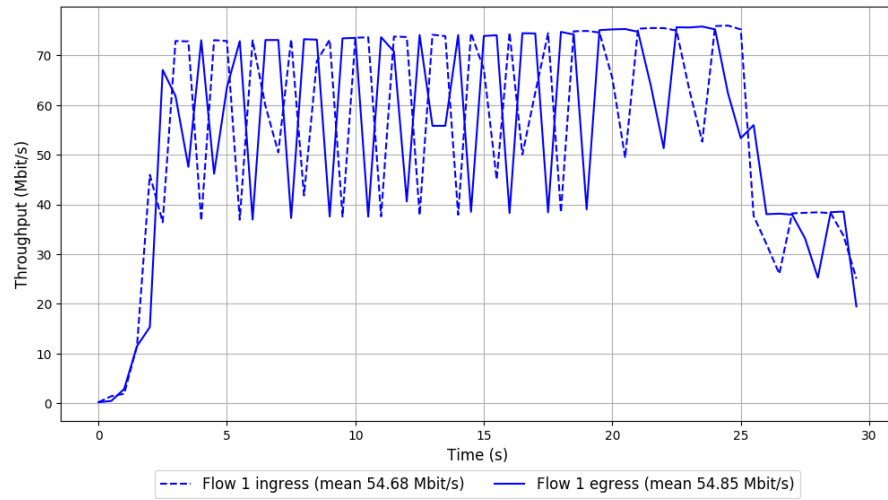
-- Flow 1:

Average throughput: 54.85 Mbit/s

95th percentile per-packet one-way delay: 138.208 ms

Loss rate: 0.60%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-21 09:00:32

End at: 2017-11-21 09:01:02

Below is generated by plot.py at 2017-11-21 12:00:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.11 Mbit/s

95th percentile per-packet one-way delay: 139.357 ms

Loss rate: 0.96%

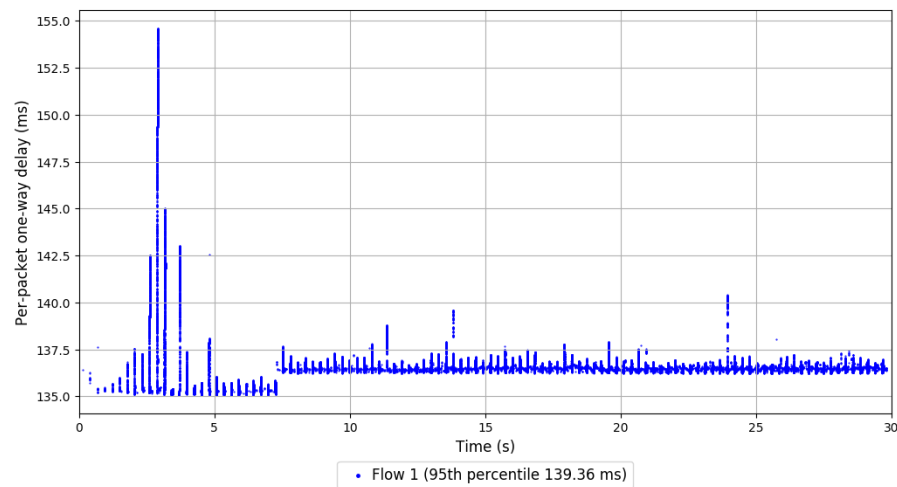
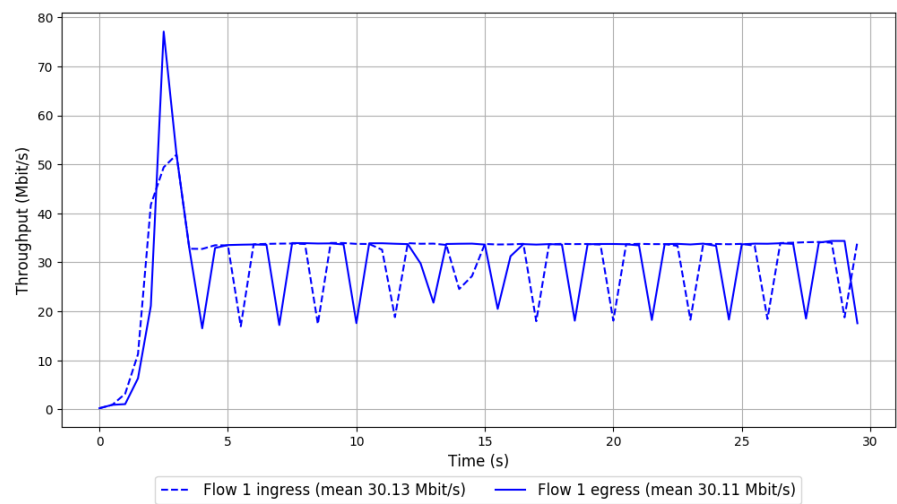
-- Flow 1:

Average throughput: 30.11 Mbit/s

95th percentile per-packet one-way delay: 139.357 ms

Loss rate: 0.96%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

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

End at: 2017-11-21 09:12:22

Below is generated by plot.py at 2017-11-21 12:00:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.73 Mbit/s

95th percentile per-packet one-way delay: 140.985 ms

Loss rate: 0.47%

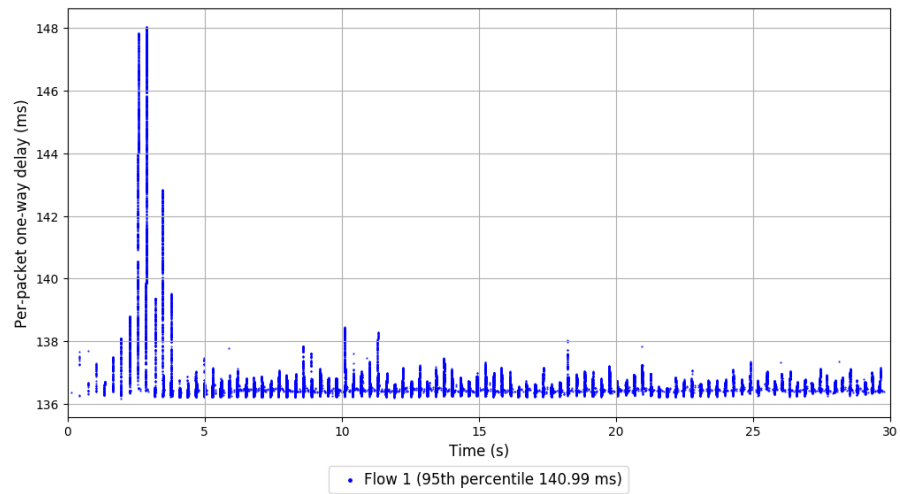
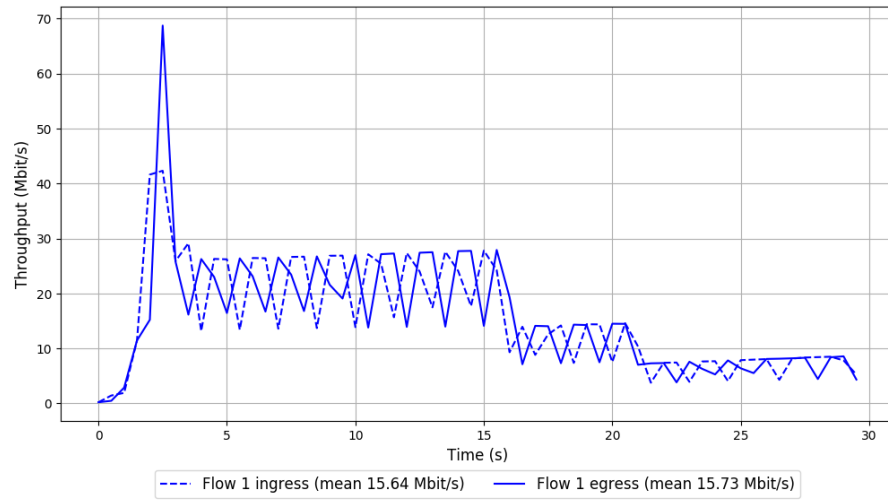
-- Flow 1:

Average throughput: 15.73 Mbit/s

95th percentile per-packet one-way delay: 140.985 ms

Loss rate: 0.47%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-21 09:23:34

End at: 2017-11-21 09:24:04

Below is generated by plot.py at 2017-11-21 12:00:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.02 Mbit/s

95th percentile per-packet one-way delay: 138.375 ms

Loss rate: 0.31%

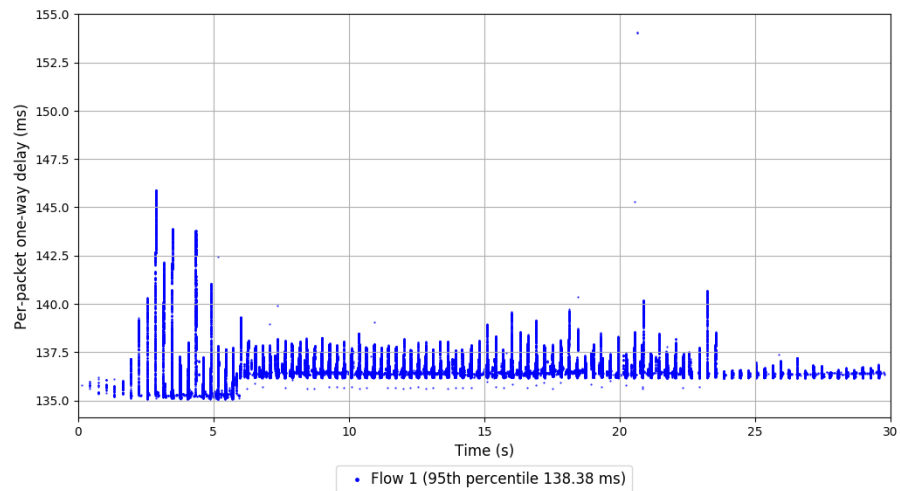
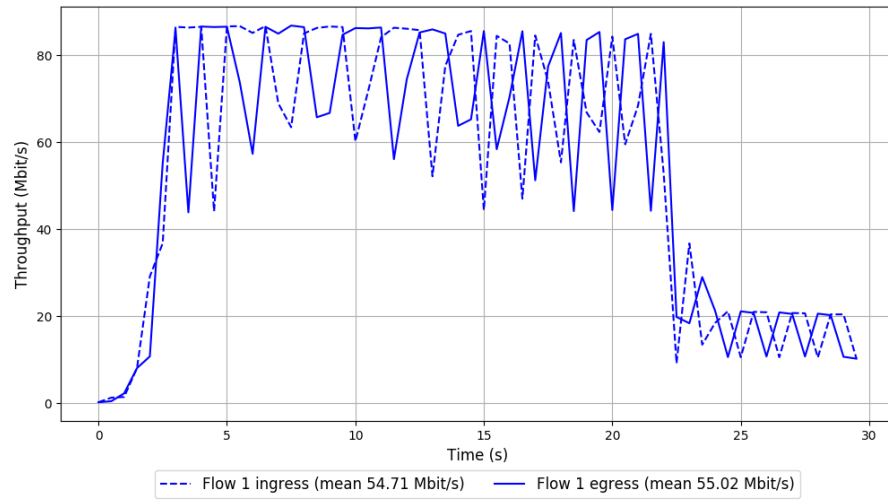
-- Flow 1:

Average throughput: 55.02 Mbit/s

95th percentile per-packet one-way delay: 138.375 ms

Loss rate: 0.31%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-21 09:35:02

End at: 2017-11-21 09:35:32

Below is generated by plot.py at 2017-11-21 12:00:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.24 Mbit/s

95th percentile per-packet one-way delay: 138.154 ms

Loss rate: 0.36%

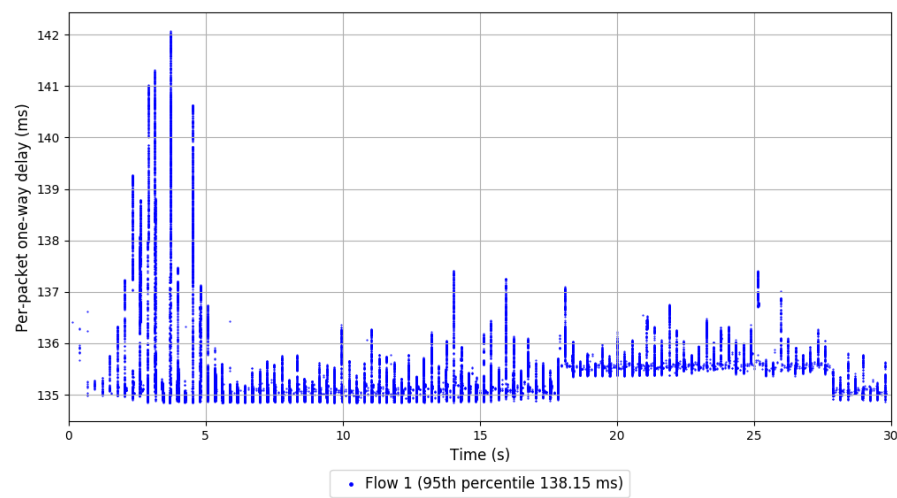
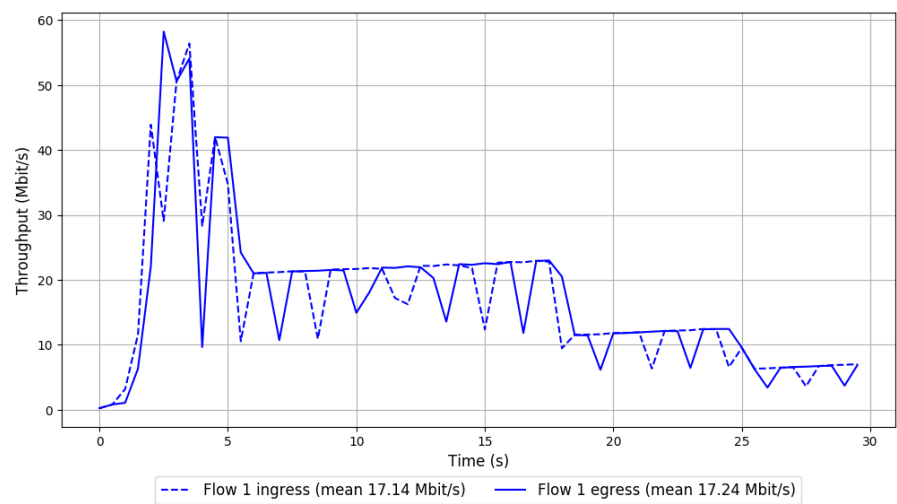
-- Flow 1:

Average throughput: 17.24 Mbit/s

95th percentile per-packet one-way delay: 138.154 ms

Loss rate: 0.36%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-11-21 07:59:28

End at: 2017-11-21 07:59:58

Below is generated by plot.py at 2017-11-21 12:01:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 163.32 Mbit/s

95th percentile per-packet one-way delay: 236.142 ms

Loss rate: 4.51%

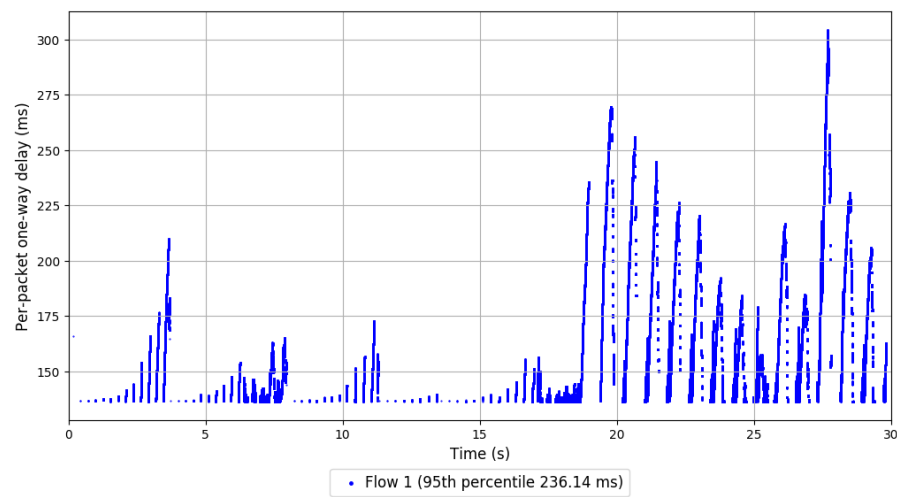
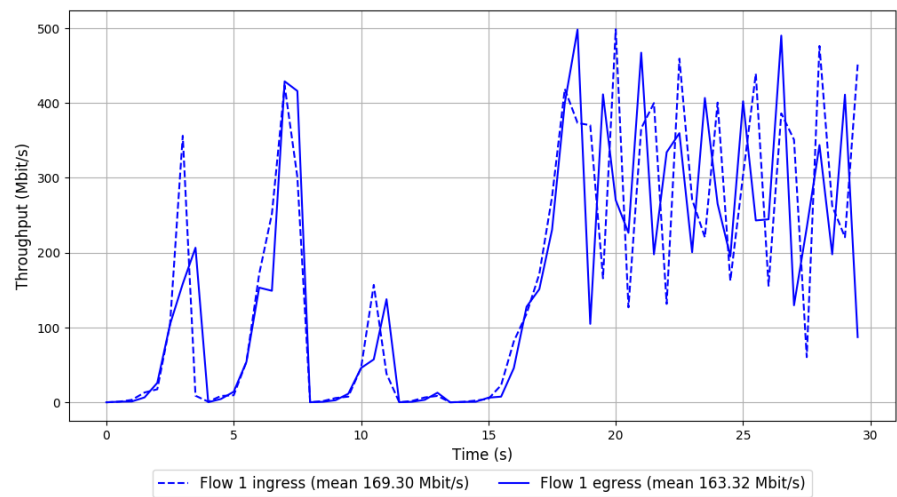
-- Flow 1:

Average throughput: 163.32 Mbit/s

95th percentile per-packet one-way delay: 236.142 ms

Loss rate: 4.51%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-21 08:10:37

End at: 2017-11-21 08:11:07

Below is generated by plot.py at 2017-11-21 12:01:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.31 Mbit/s

95th percentile per-packet one-way delay: 231.672 ms

Loss rate: 1.42%

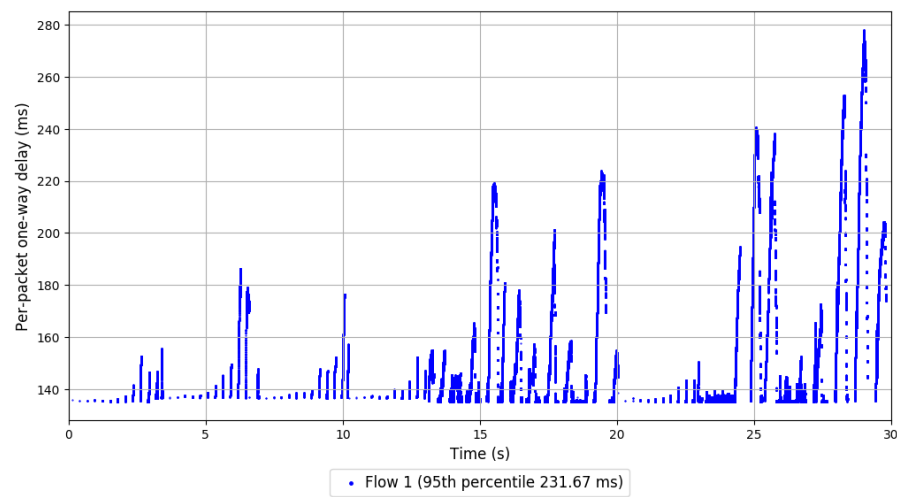
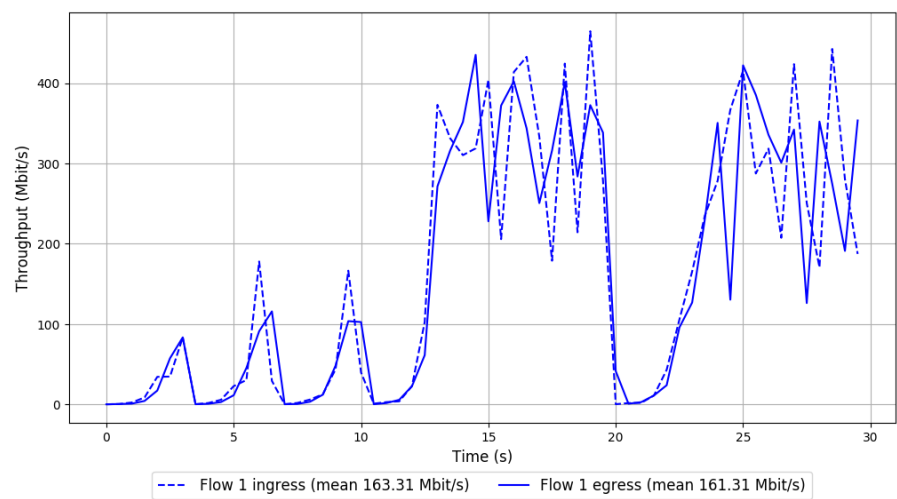
-- Flow 1:

Average throughput: 161.31 Mbit/s

95th percentile per-packet one-way delay: 231.672 ms

Loss rate: 1.42%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-21 08:22:19

End at: 2017-11-21 08:22:49

Below is generated by plot.py at 2017-11-21 12:01:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.87 Mbit/s

95th percentile per-packet one-way delay: 213.141 ms

Loss rate: 0.88%

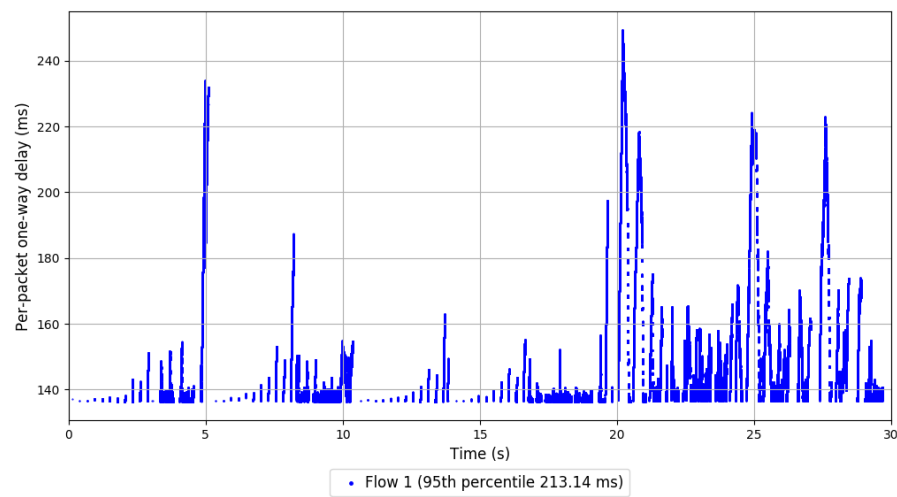
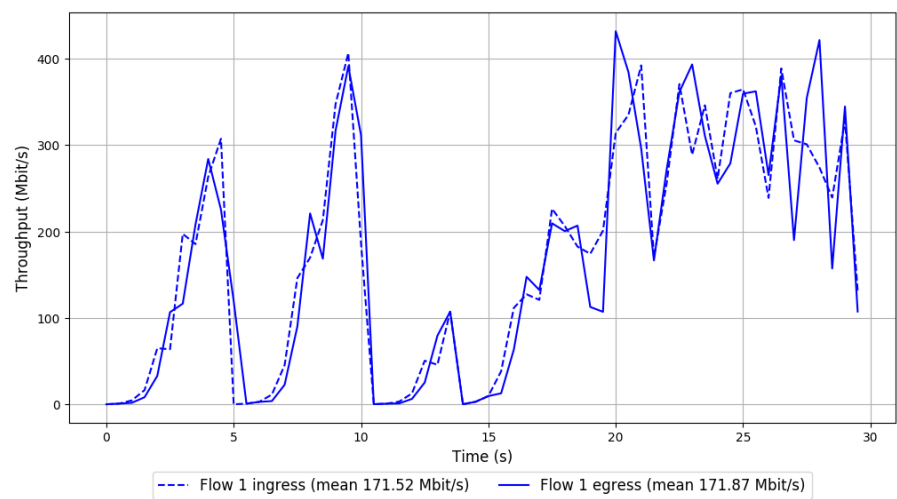
-- Flow 1:

Average throughput: 171.87 Mbit/s

95th percentile per-packet one-way delay: 213.141 ms

Loss rate: 0.88%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-21 08:33:53

End at: 2017-11-21 08:34:23

Below is generated by plot.py at 2017-11-21 12:01:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.09 Mbit/s

95th percentile per-packet one-way delay: 264.592 ms

Loss rate: 1.52%

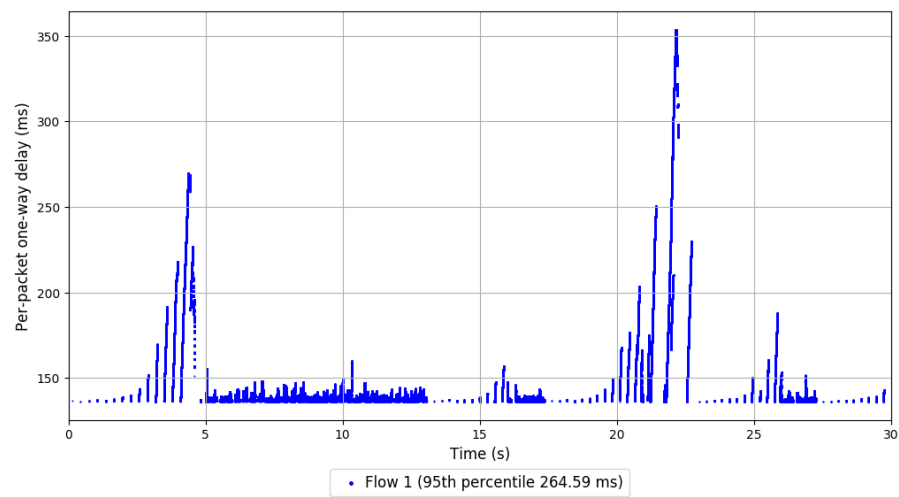
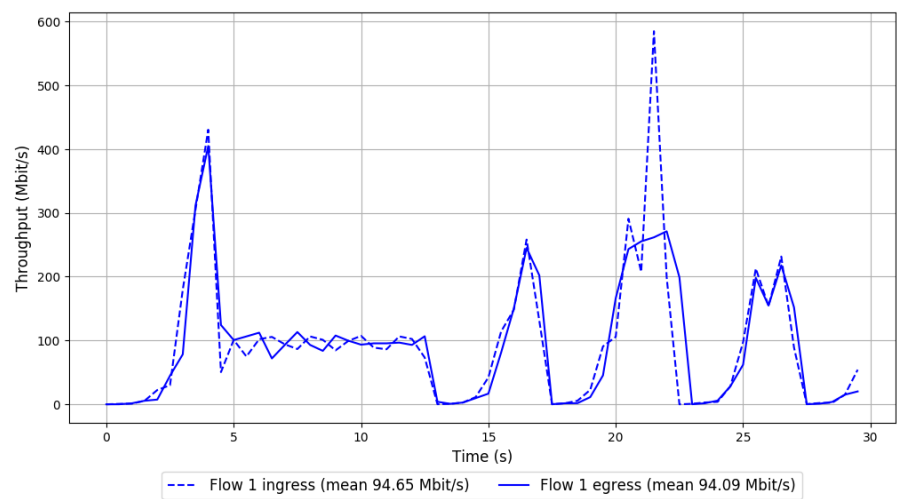
-- Flow 1:

Average throughput: 94.09 Mbit/s

95th percentile per-packet one-way delay: 264.592 ms

Loss rate: 1.52%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-21 08:45:23

End at: 2017-11-21 08:45:53

Below is generated by plot.py at 2017-11-21 12:01:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.18 Mbit/s

95th percentile per-packet one-way delay: 158.288 ms

Loss rate: 1.72%

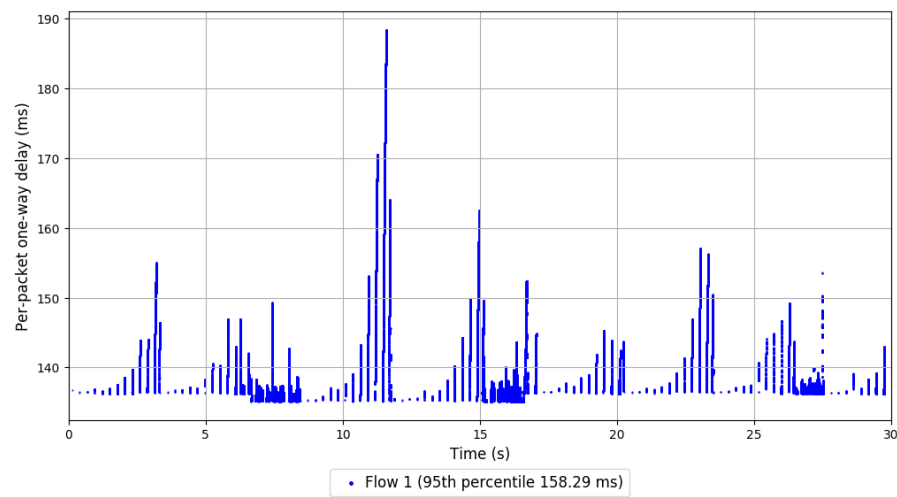
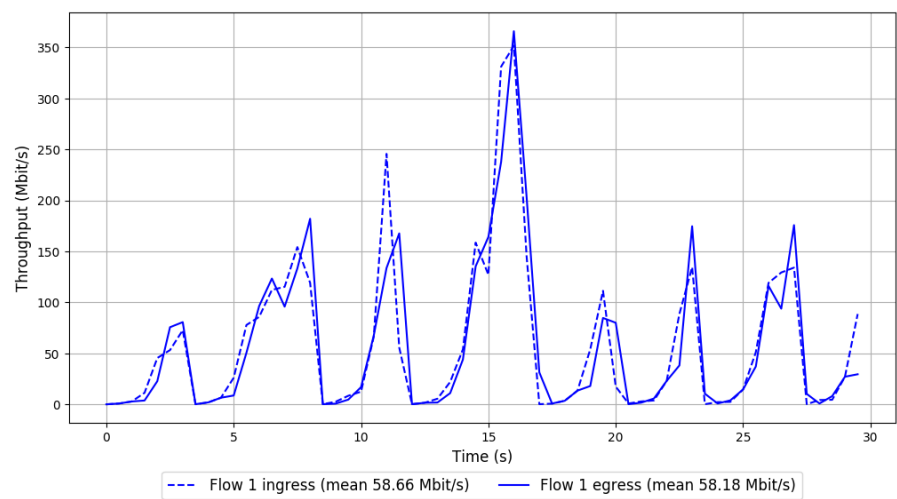
-- Flow 1:

Average throughput: 58.18 Mbit/s

95th percentile per-packet one-way delay: 158.288 ms

Loss rate: 1.72%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-21 08:56:36

End at: 2017-11-21 08:57:06

Below is generated by plot.py at 2017-11-21 12:01:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.04 Mbit/s

95th percentile per-packet one-way delay: 159.817 ms

Loss rate: 0.75%

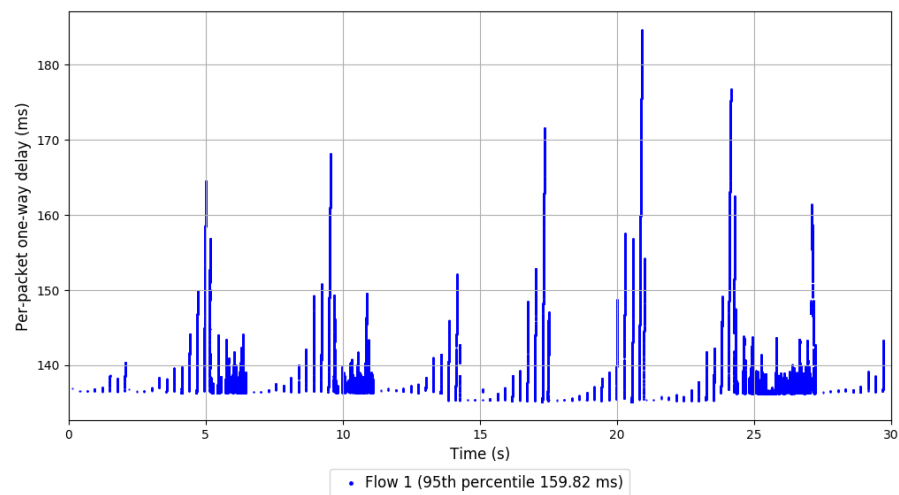
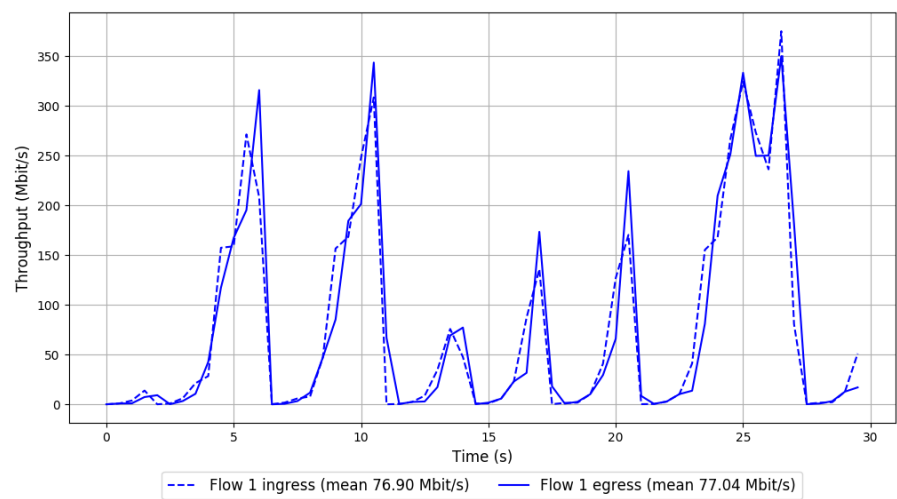
-- Flow 1:

Average throughput: 77.04 Mbit/s

95th percentile per-packet one-way delay: 159.817 ms

Loss rate: 0.75%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-21 09:07:47

End at: 2017-11-21 09:08:17

Below is generated by plot.py at 2017-11-21 12:01:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.04 Mbit/s

95th percentile per-packet one-way delay: 146.175 ms

Loss rate: 1.36%

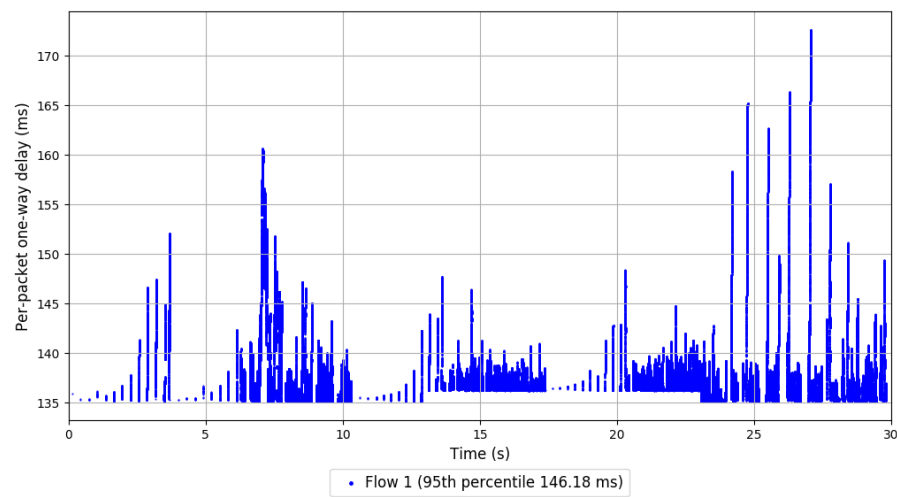
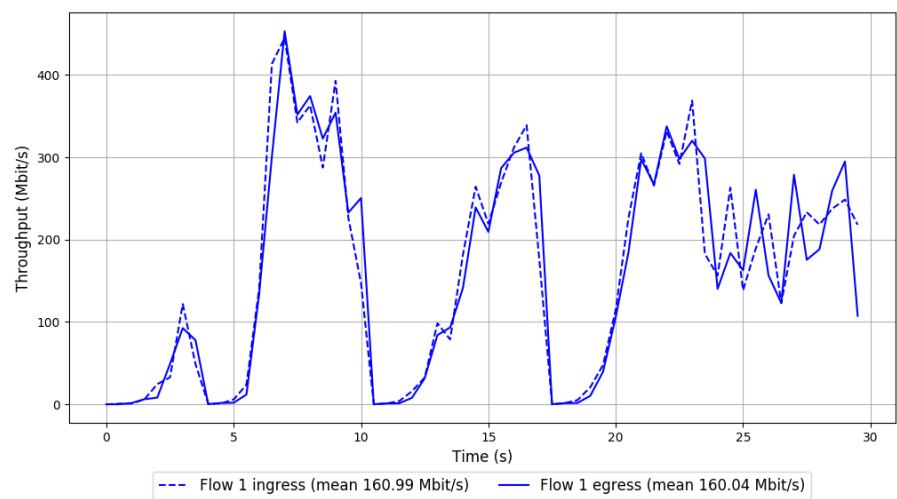
-- Flow 1:

Average throughput: 160.04 Mbit/s

95th percentile per-packet one-way delay: 146.175 ms

Loss rate: 1.36%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-21 09:19:25

End at: 2017-11-21 09:19:55

Below is generated by plot.py at 2017-11-21 12:03:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.16 Mbit/s

95th percentile per-packet one-way delay: 238.869 ms

Loss rate: 2.02%

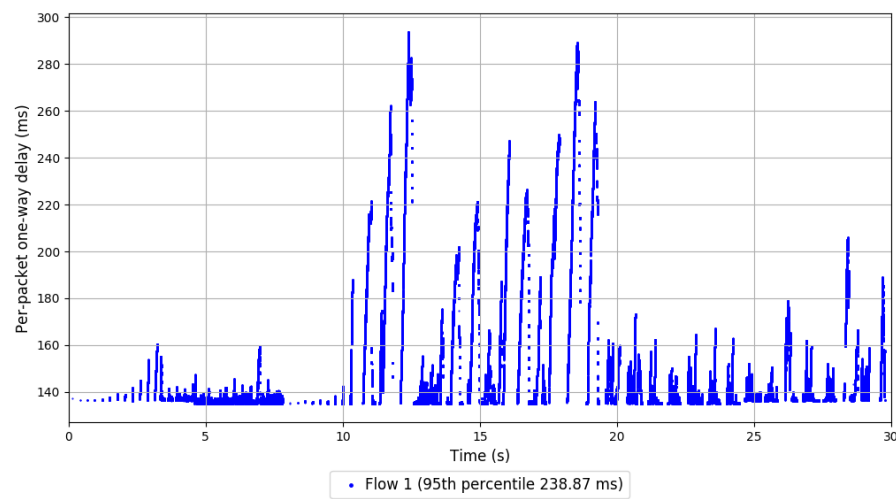
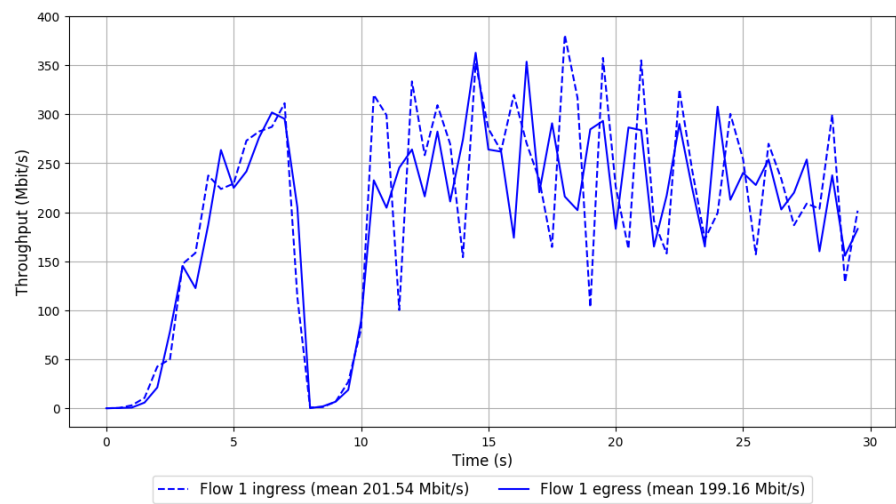
-- Flow 1:

Average throughput: 199.16 Mbit/s

95th percentile per-packet one-way delay: 238.869 ms

Loss rate: 2.02%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-21 09:30:51

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

Below is generated by plot.py at 2017-11-21 12:04:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 275.95 Mbit/s

95th percentile per-packet one-way delay: 200.065 ms

Loss rate: 0.28%

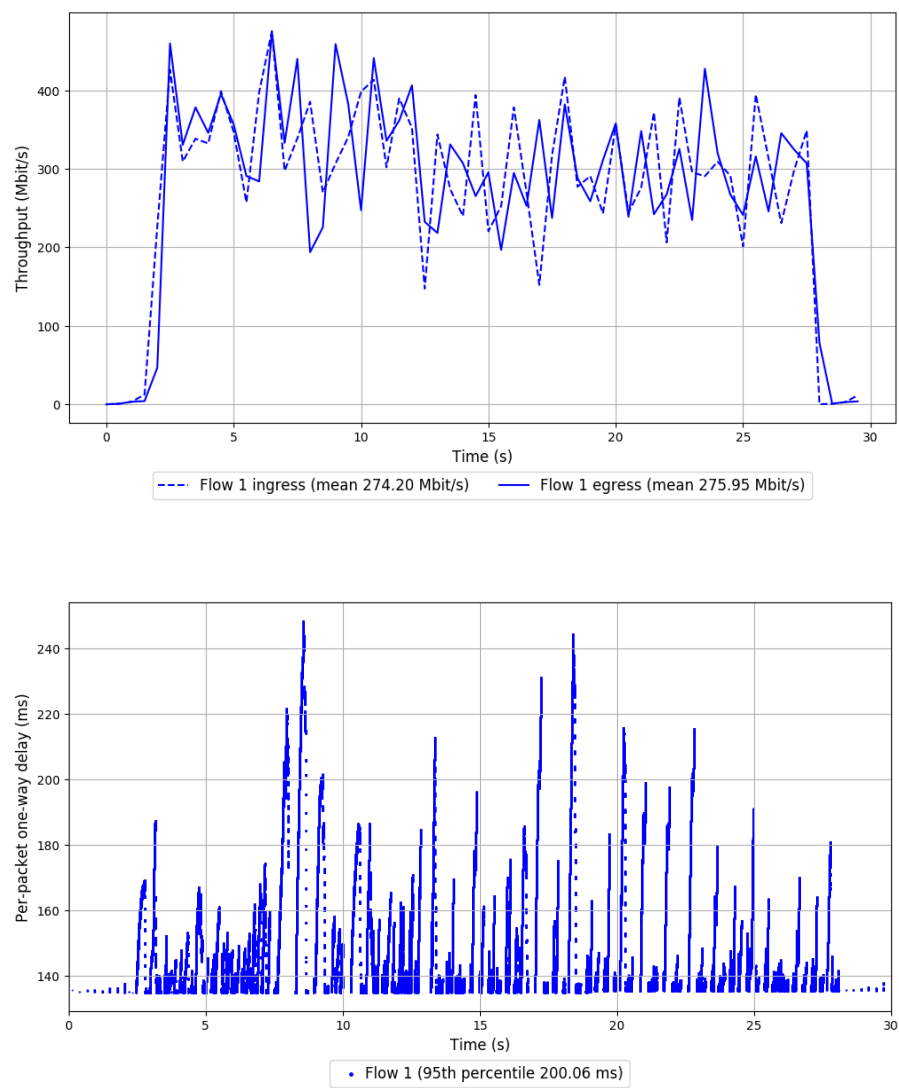
-- Flow 1:

Average throughput: 275.95 Mbit/s

95th percentile per-packet one-way delay: 200.065 ms

Loss rate: 0.28%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-21 09:42:31

End at: 2017-11-21 09:43:01

Below is generated by plot.py at 2017-11-21 12:04:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.52 Mbit/s

95th percentile per-packet one-way delay: 183.550 ms

Loss rate: 2.18%

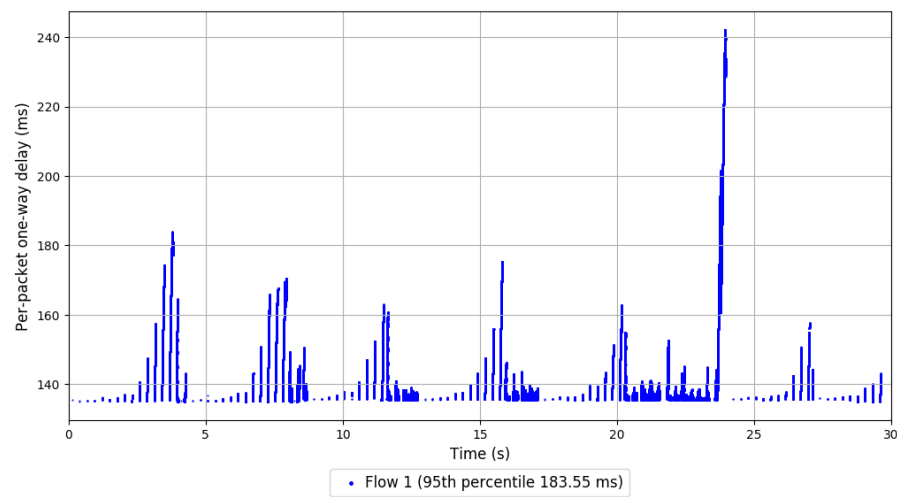
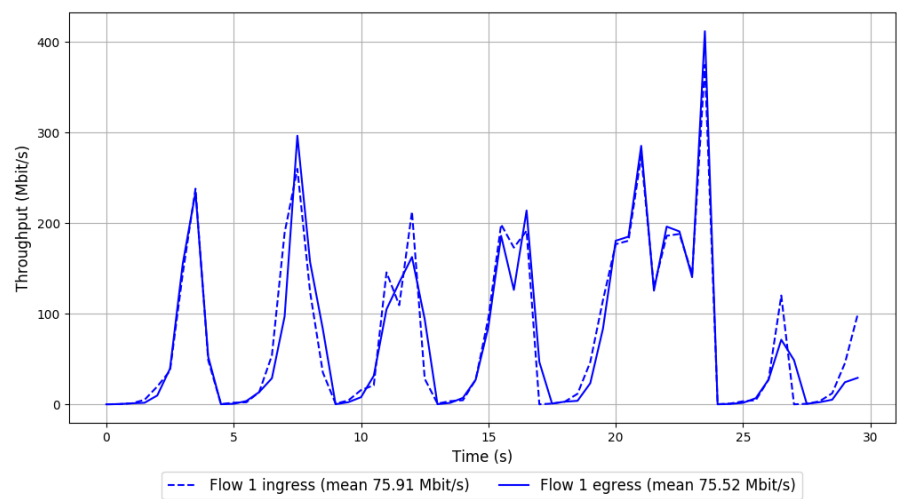
-- Flow 1:

Average throughput: 75.52 Mbit/s

95th percentile per-packet one-way delay: 183.550 ms

Loss rate: 2.18%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-11-21 07:49:54

End at: 2017-11-21 07:50:24

Below is generated by plot.py at 2017-11-21 12:04:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.70 Mbit/s

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

Loss rate: 0.41%

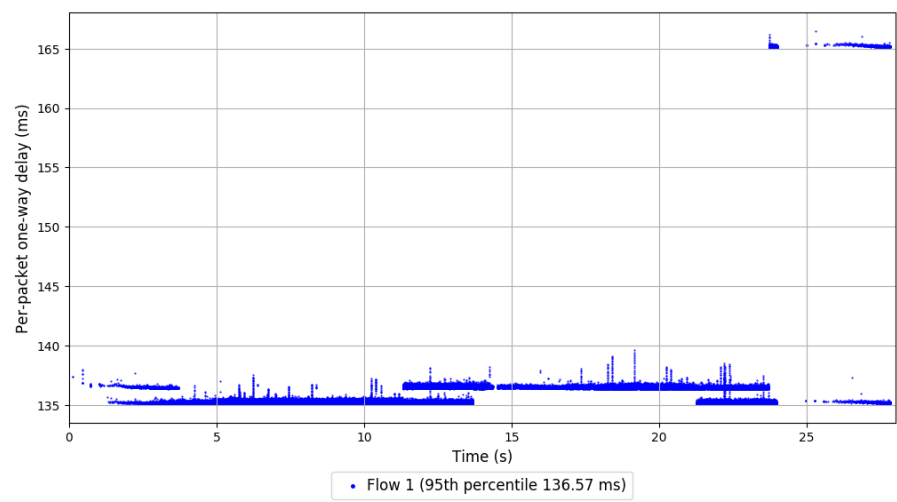
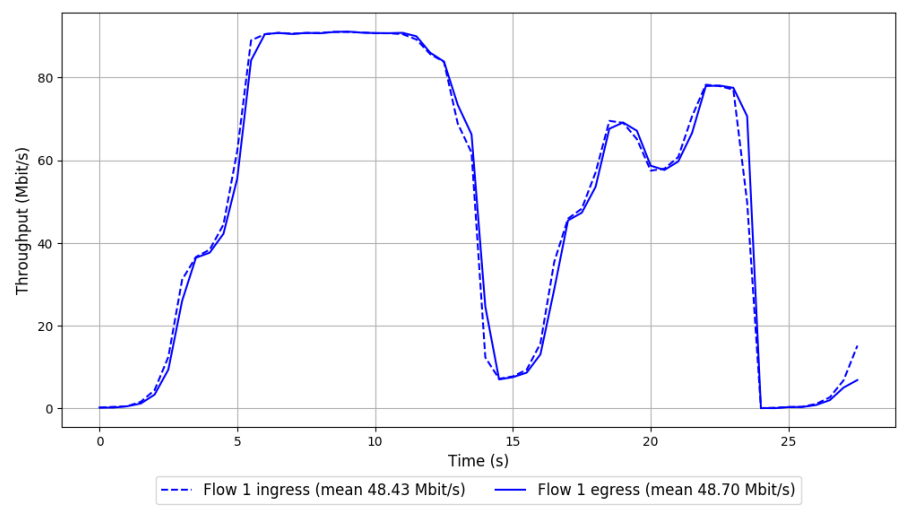
-- Flow 1:

Average throughput: 48.70 Mbit/s

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

Loss rate: 0.41%

Run 1: Report of Copa — Data Link

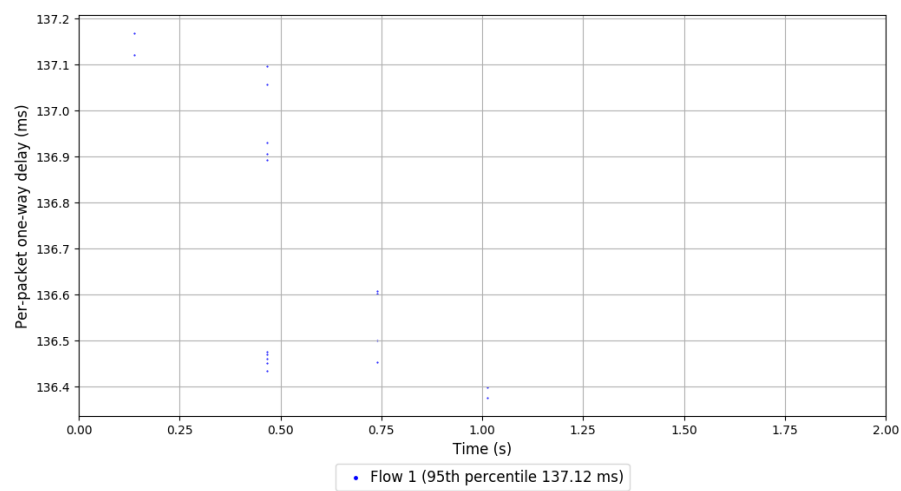
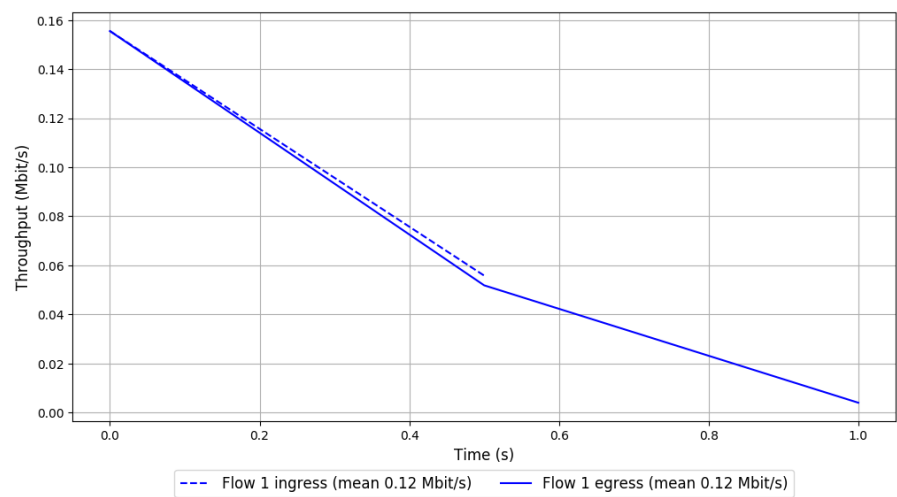


Run 2: Statistics of Copa

Start at: 2017-11-21 08:01:17

End at: 2017-11-21 08:01:47

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-21 08:12:26

End at: 2017-11-21 08:12:56

Below is generated by plot.py at 2017-11-21 12:04:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.43 Mbit/s

95th percentile per-packet one-way delay: 136.953 ms

Loss rate: 1.11%

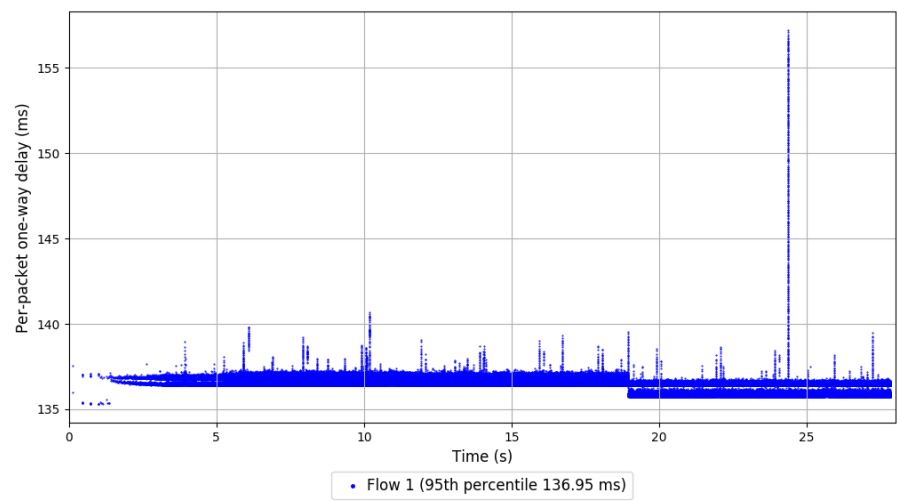
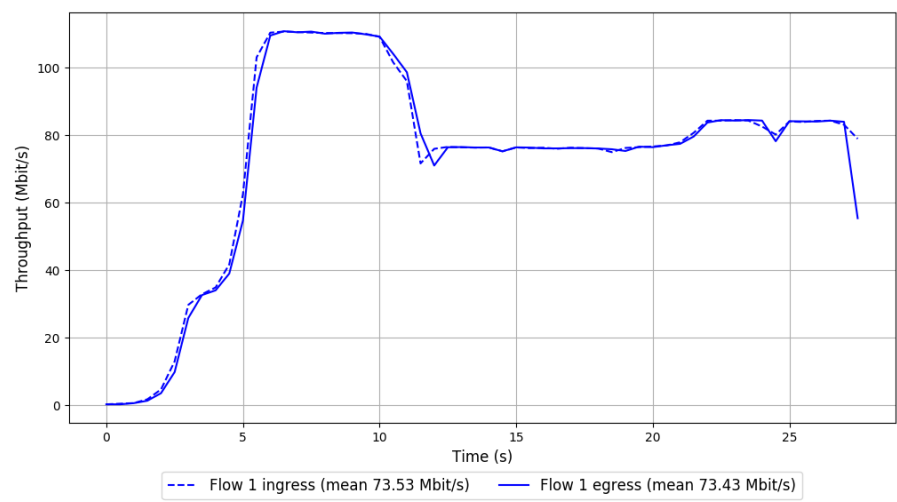
-- Flow 1:

Average throughput: 73.43 Mbit/s

95th percentile per-packet one-way delay: 136.953 ms

Loss rate: 1.11%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-21 08:24:09

End at: 2017-11-21 08:24:39

Below is generated by plot.py at 2017-11-21 12:04:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.00 Mbit/s

95th percentile per-packet one-way delay: 136.741 ms

Loss rate: 1.07%

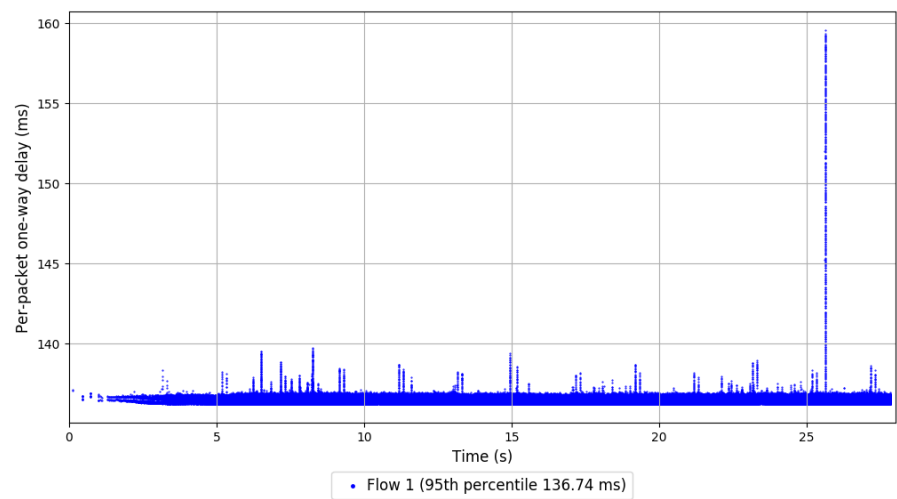
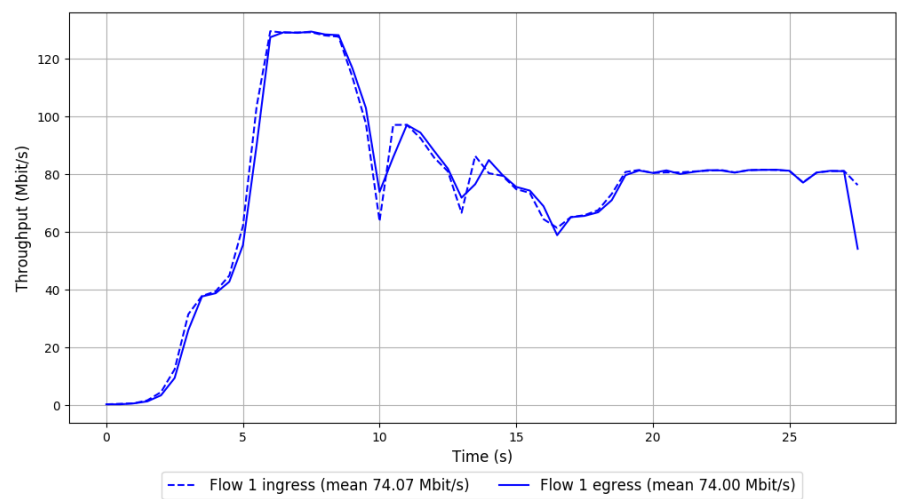
-- Flow 1:

Average throughput: 74.00 Mbit/s

95th percentile per-packet one-way delay: 136.741 ms

Loss rate: 1.07%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-21 08:35:37

End at: 2017-11-21 08:36:07

Below is generated by plot.py at 2017-11-21 12:04:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.61 Mbit/s

95th percentile per-packet one-way delay: 136.601 ms

Loss rate: 1.02%

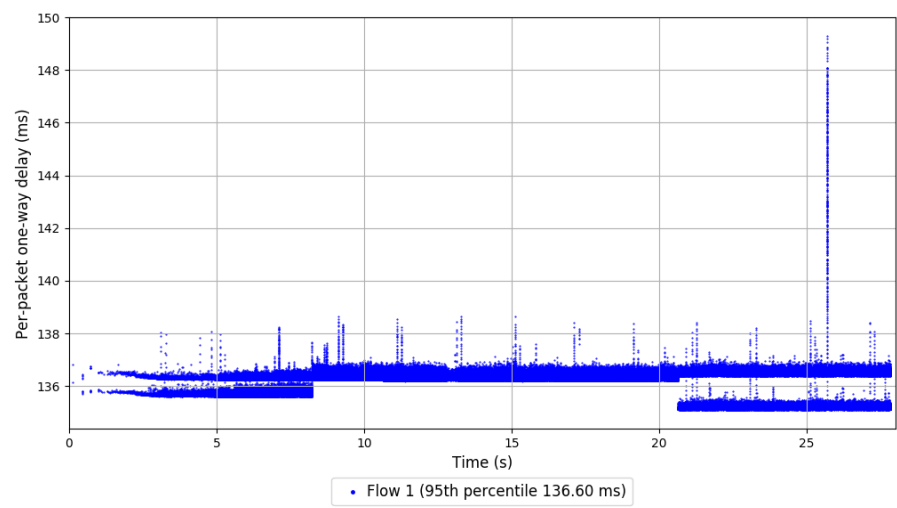
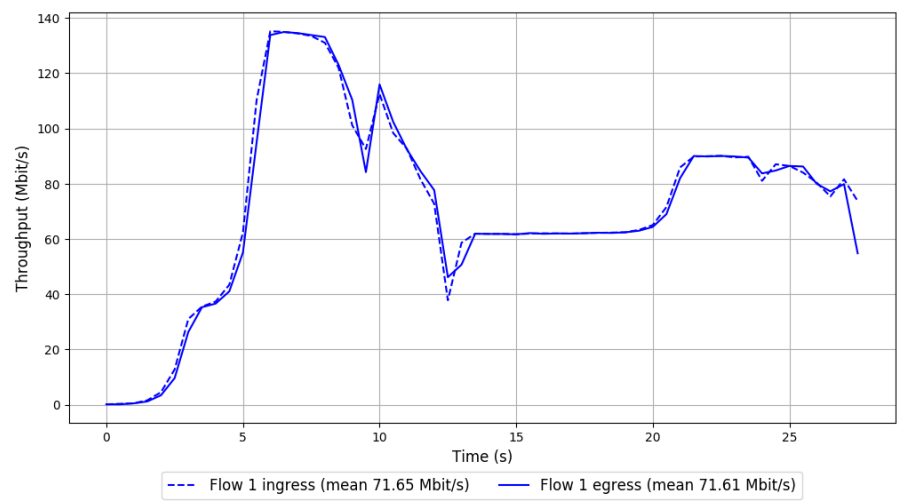
-- Flow 1:

Average throughput: 71.61 Mbit/s

95th percentile per-packet one-way delay: 136.601 ms

Loss rate: 1.02%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-21 08:47:04

End at: 2017-11-21 08:47:34

Below is generated by plot.py at 2017-11-21 12:04:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.24 Mbit/s

95th percentile per-packet one-way delay: 136.440 ms

Loss rate: 0.27%

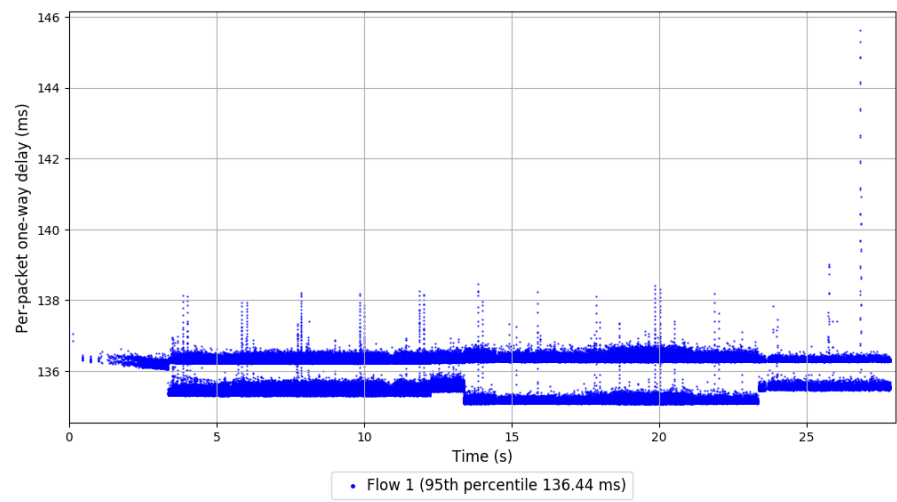
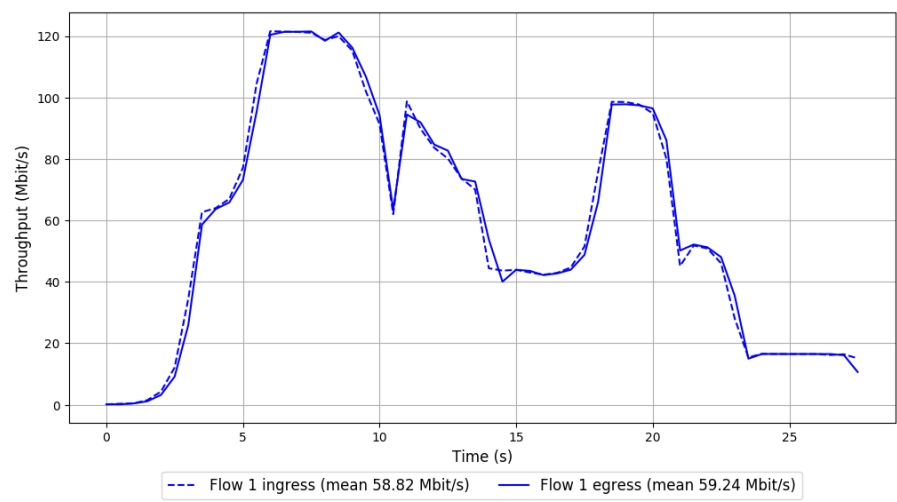
-- Flow 1:

Average throughput: 59.24 Mbit/s

95th percentile per-packet one-way delay: 136.440 ms

Loss rate: 0.27%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-21 08:58:19

End at: 2017-11-21 08:58:49

Below is generated by plot.py at 2017-11-21 12:04:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.83 Mbit/s

95th percentile per-packet one-way delay: 136.588 ms

Loss rate: 0.57%

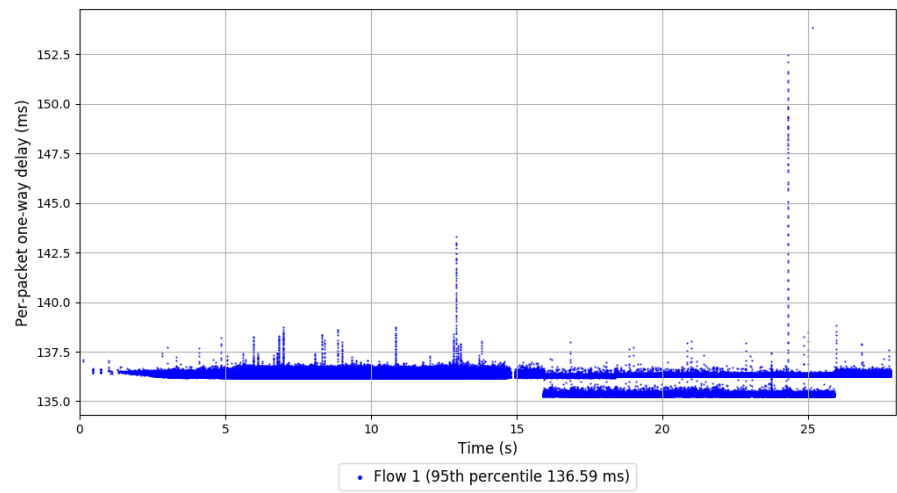
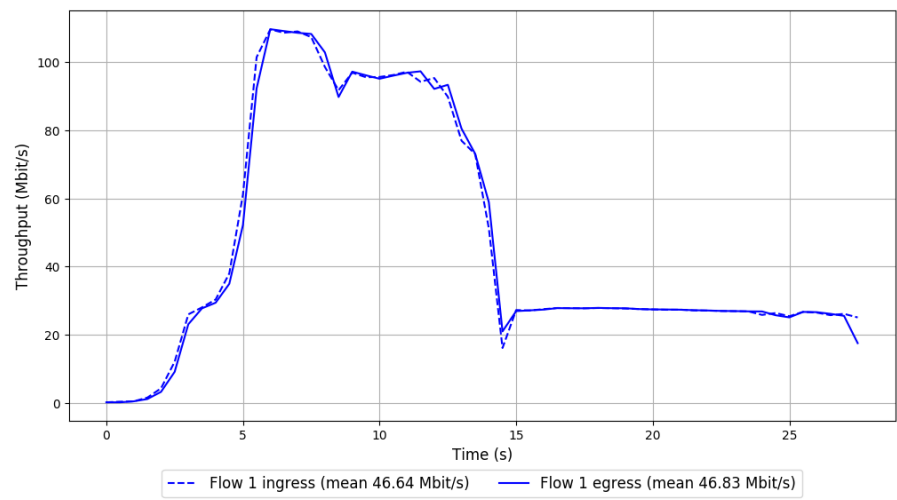
-- Flow 1:

Average throughput: 46.83 Mbit/s

95th percentile per-packet one-way delay: 136.588 ms

Loss rate: 0.57%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

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

End at: 2017-11-21 09:10:07

Below is generated by plot.py at 2017-11-21 12:04:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.13 Mbit/s

95th percentile per-packet one-way delay: 136.450 ms

Loss rate: 1.10%

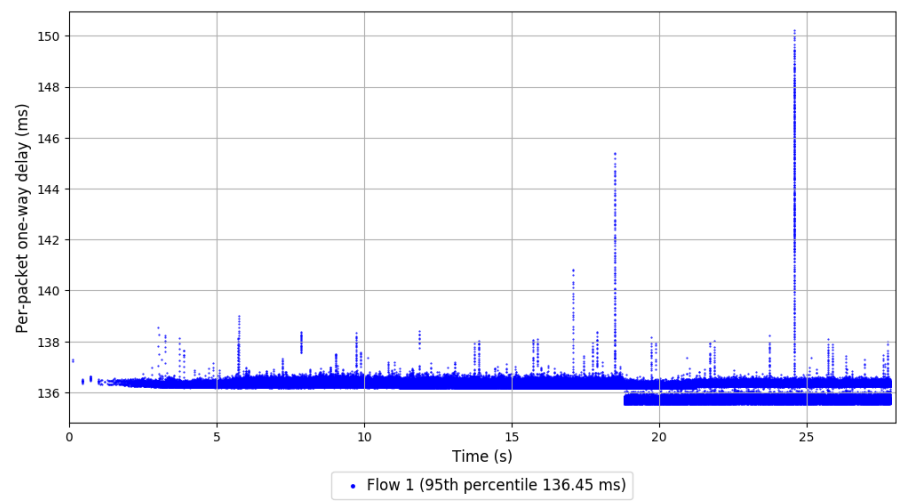
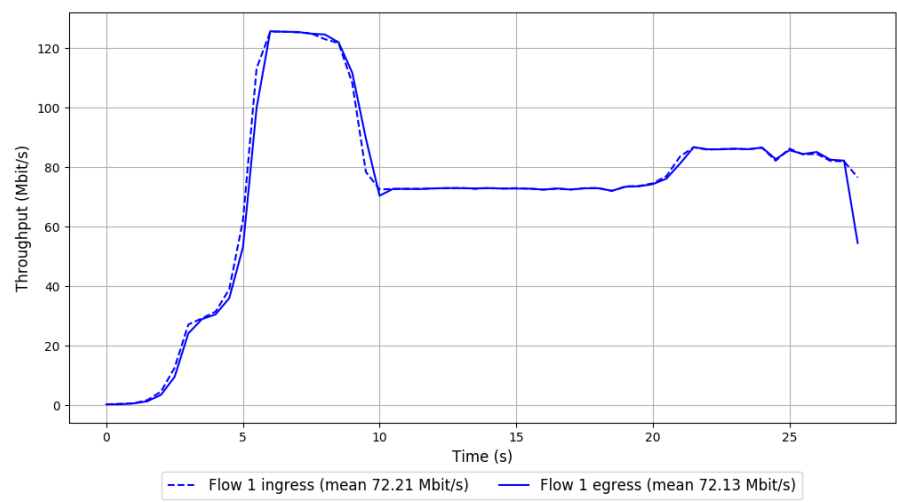
-- Flow 1:

Average throughput: 72.13 Mbit/s

95th percentile per-packet one-way delay: 136.450 ms

Loss rate: 1.10%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-21 09:21:18

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

Below is generated by plot.py at 2017-11-21 12:05:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.10 Mbit/s

95th percentile per-packet one-way delay: 136.427 ms

Loss rate: 1.08%

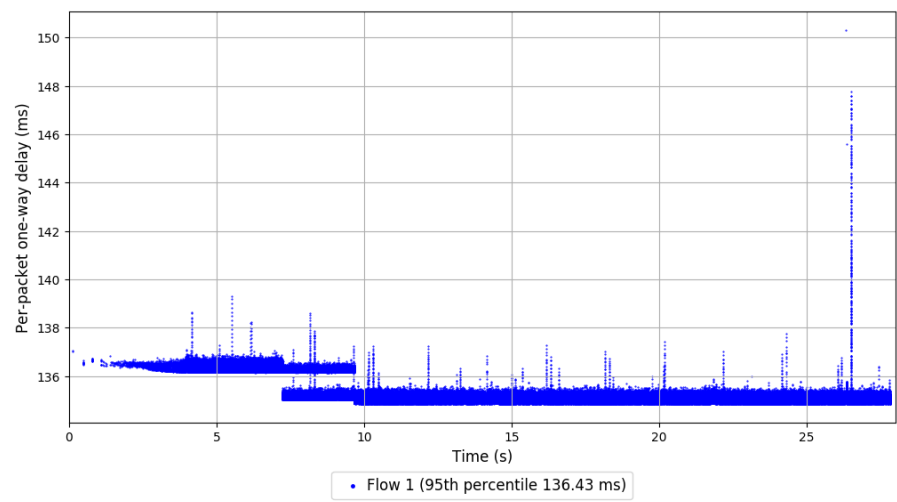
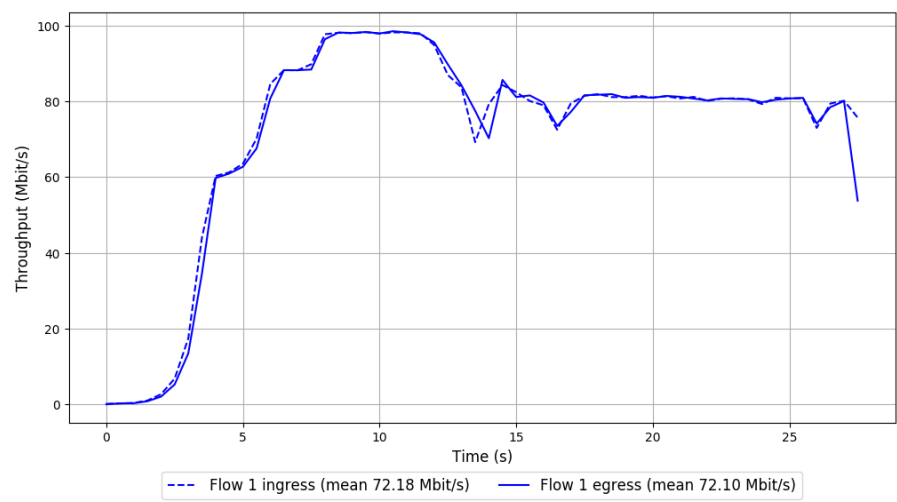
-- Flow 1:

Average throughput: 72.10 Mbit/s

95th percentile per-packet one-way delay: 136.427 ms

Loss rate: 1.08%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-21 09:32:46

End at: 2017-11-21 09:33:16

Below is generated by plot.py at 2017-11-21 12:05:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.96 Mbit/s

95th percentile per-packet one-way delay: 136.212 ms

Loss rate: 0.89%

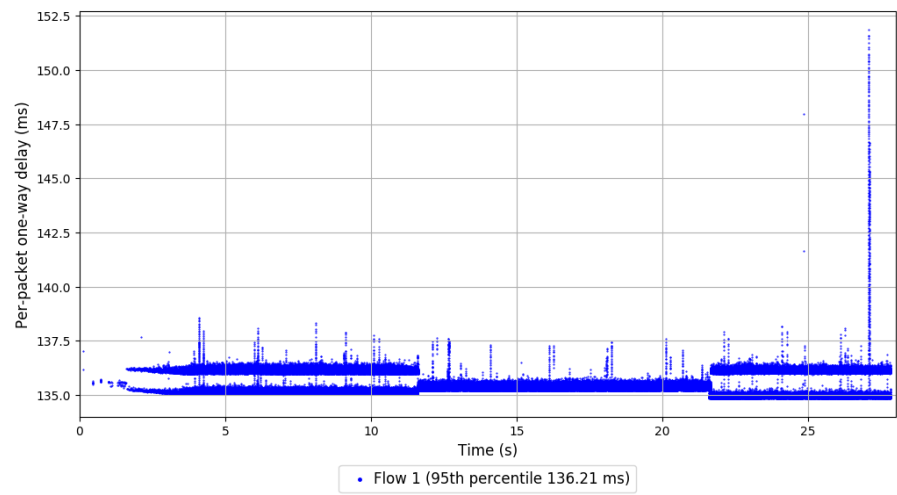
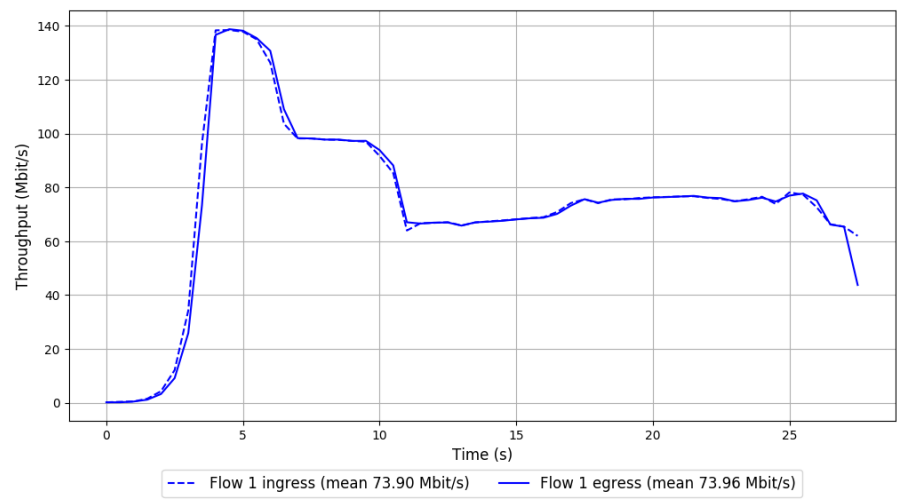
-- Flow 1:

Average throughput: 73.96 Mbit/s

95th percentile per-packet one-way delay: 136.212 ms

Loss rate: 0.89%

Run 10: Report of Copa — Data Link

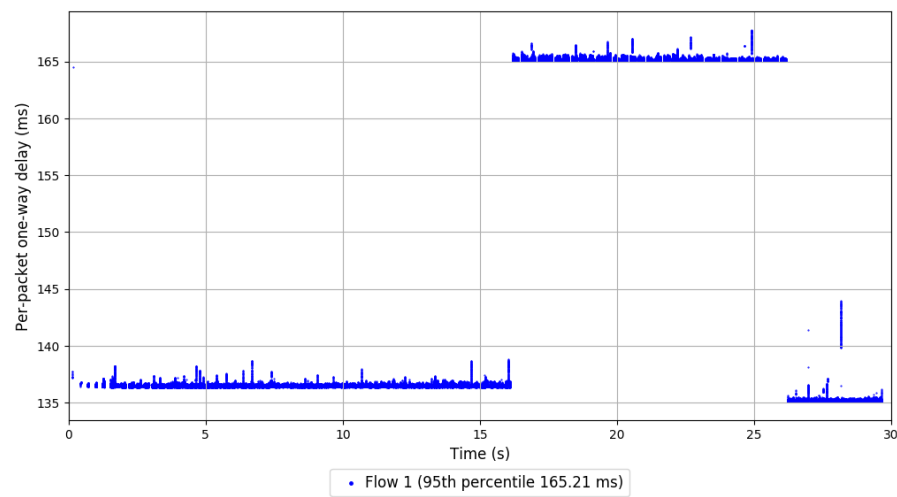
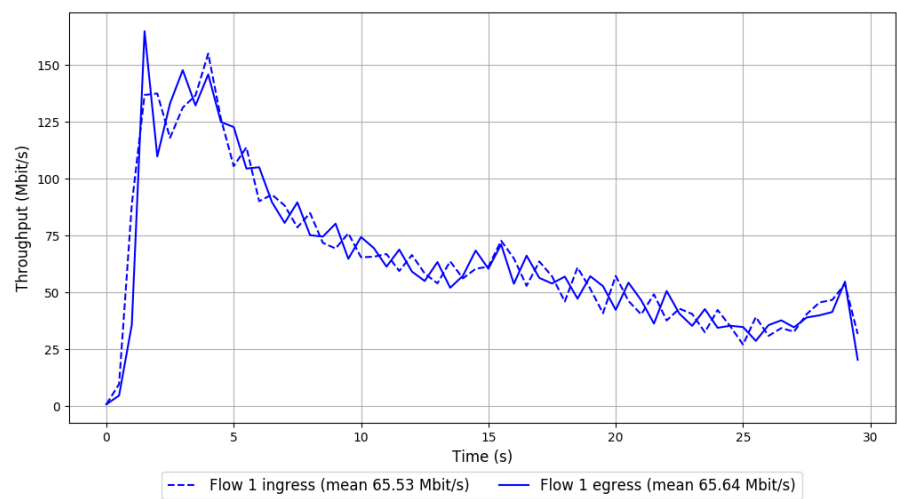


```
Run 1: Statistics of Indigo

Start at: 2017-11-21 07:52:53
End at: 2017-11-21 07:53:23

# Below is generated by plot.py at 2017-11-21 12:05:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.64 Mbit/s
95th percentile per-packet one-way delay: 165.209 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 65.64 Mbit/s
95th percentile per-packet one-way delay: 165.209 ms
Loss rate: 0.75%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-11-21 08:04:08

End at: 2017-11-21 08:04:38

Below is generated by plot.py at 2017-11-21 12:05:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 145.88 Mbit/s

95th percentile per-packet one-way delay: 136.601 ms

Loss rate: 1.03%

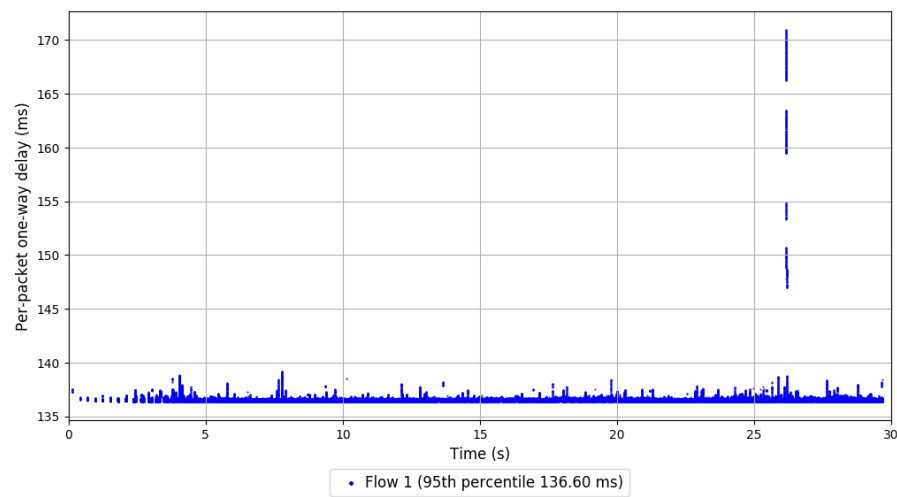
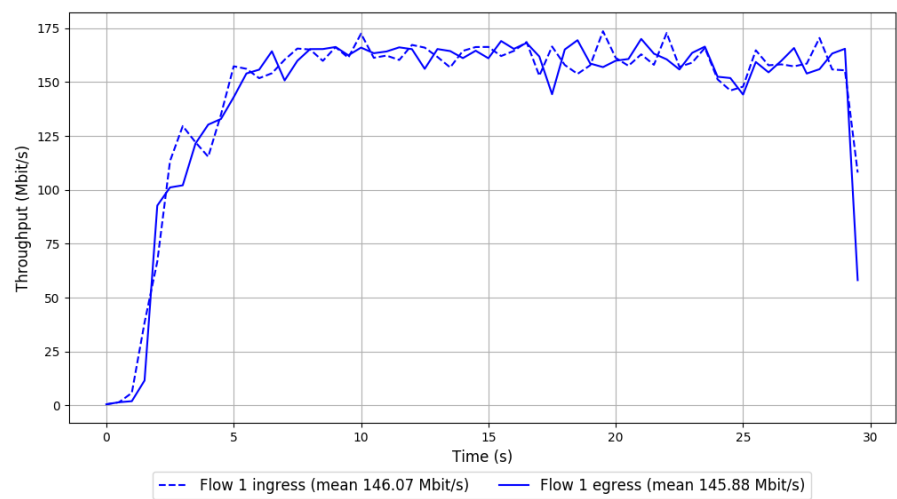
-- Flow 1:

Average throughput: 145.88 Mbit/s

95th percentile per-packet one-way delay: 136.601 ms

Loss rate: 1.03%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-21 08:15:27

End at: 2017-11-21 08:15:57

Below is generated by plot.py at 2017-11-21 12:06:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.01 Mbit/s

95th percentile per-packet one-way delay: 136.573 ms

Loss rate: 1.00%

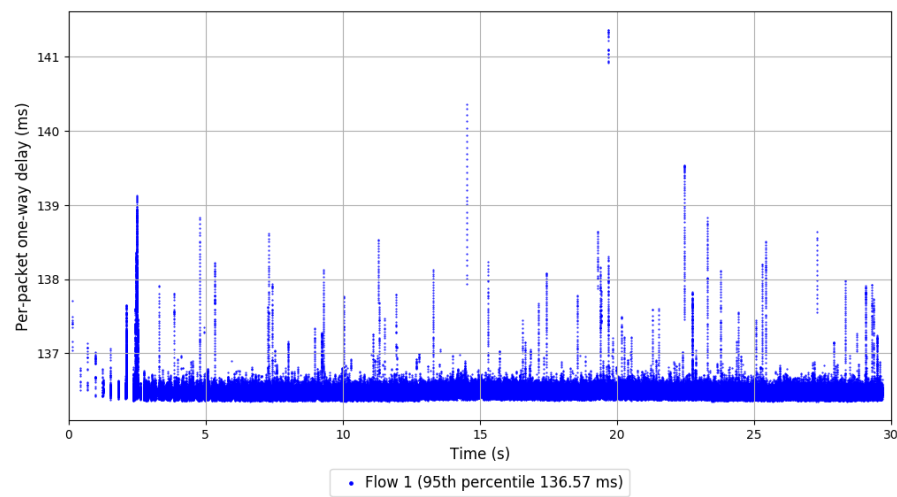
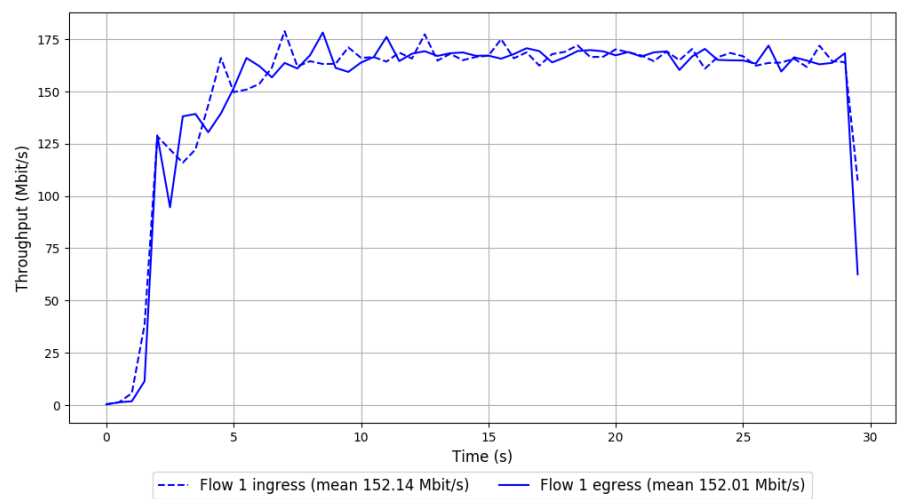
-- Flow 1:

Average throughput: 152.01 Mbit/s

95th percentile per-packet one-way delay: 136.573 ms

Loss rate: 1.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-21 08:27:08

End at: 2017-11-21 08:27:38

Below is generated by plot.py at 2017-11-21 12:06:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.24 Mbit/s

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

Loss rate: 1.00%

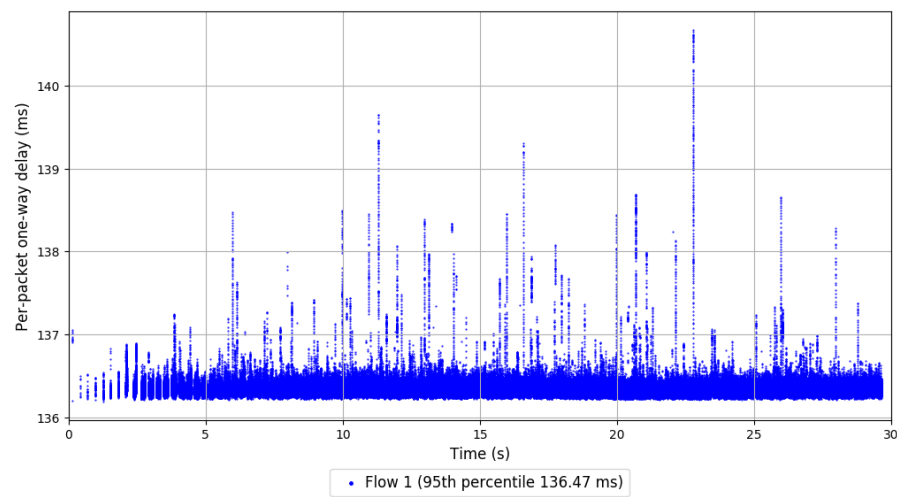
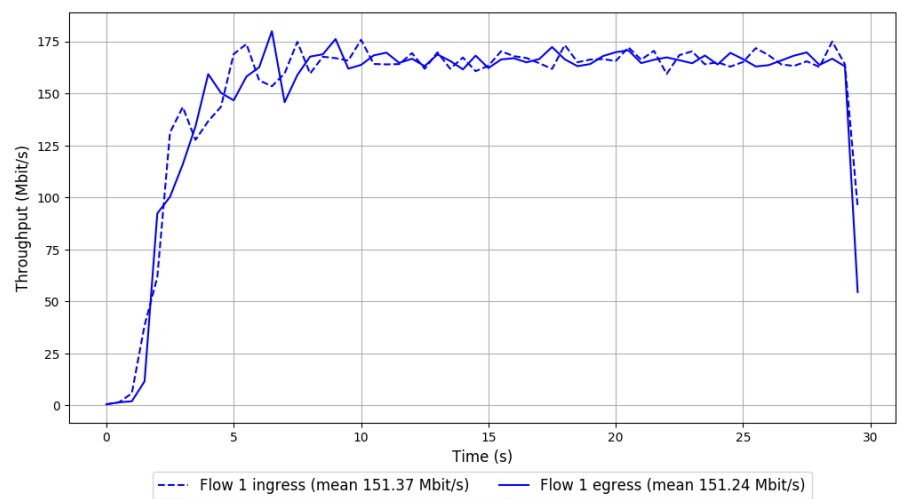
-- Flow 1:

Average throughput: 151.24 Mbit/s

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

Loss rate: 1.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-21 08:38:37

End at: 2017-11-21 08:39:07

Below is generated by plot.py at 2017-11-21 12:06:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.41 Mbit/s

95th percentile per-packet one-way delay: 136.480 ms

Loss rate: 1.01%

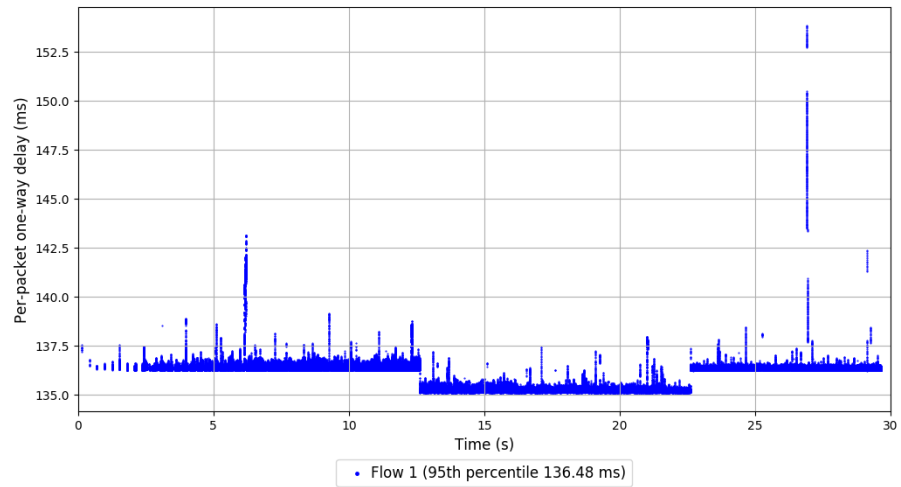
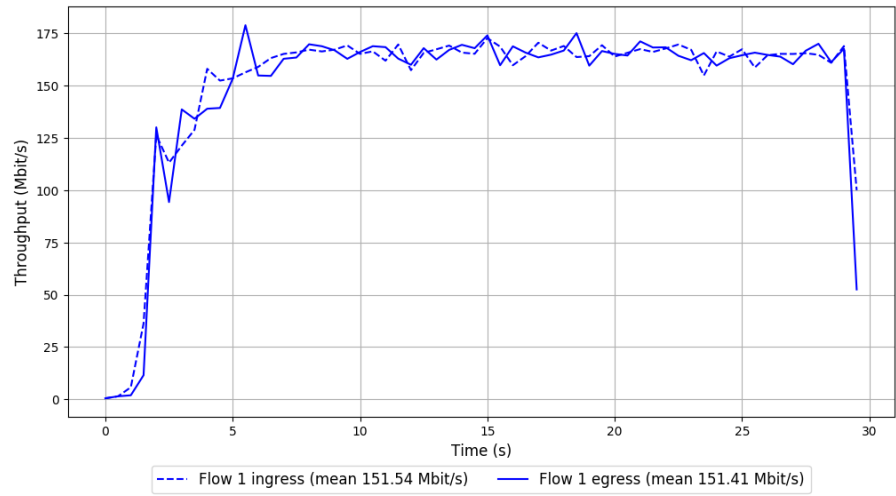
-- Flow 1:

Average throughput: 151.41 Mbit/s

95th percentile per-packet one-way delay: 136.480 ms

Loss rate: 1.01%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-21 08:50:05

End at: 2017-11-21 08:50:35

Below is generated by plot.py at 2017-11-21 12:07:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.72 Mbit/s

95th percentile per-packet one-way delay: 136.450 ms

Loss rate: 1.00%

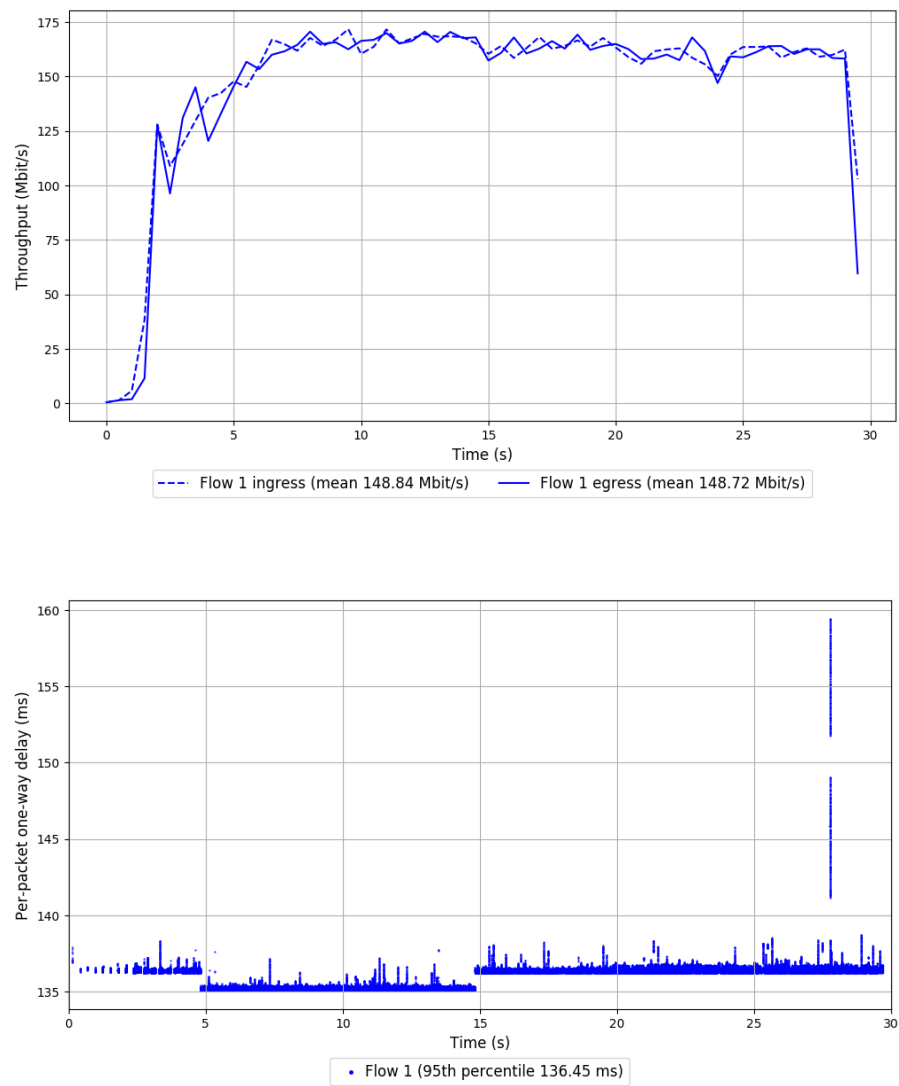
-- Flow 1:

Average throughput: 148.72 Mbit/s

95th percentile per-packet one-way delay: 136.450 ms

Loss rate: 1.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-21 09:01:17

End at: 2017-11-21 09:01:47

Below is generated by plot.py at 2017-11-21 12:07:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.89 Mbit/s

95th percentile per-packet one-way delay: 136.412 ms

Loss rate: 1.02%

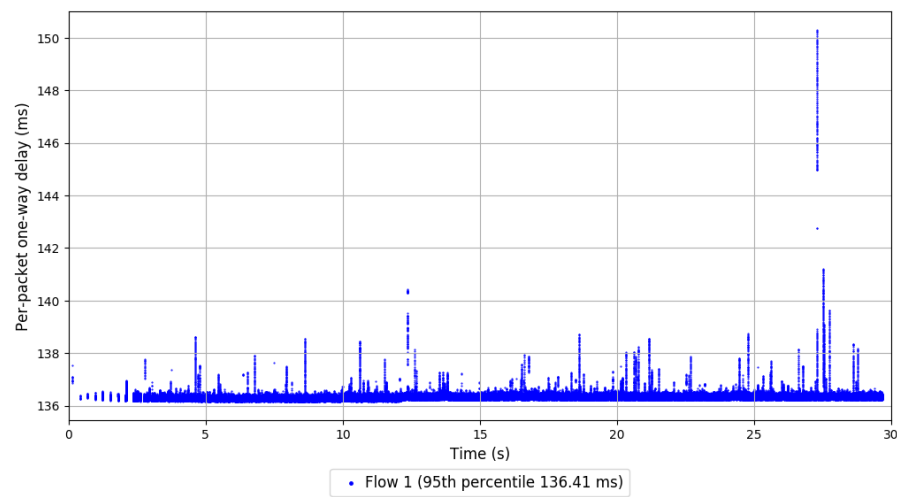
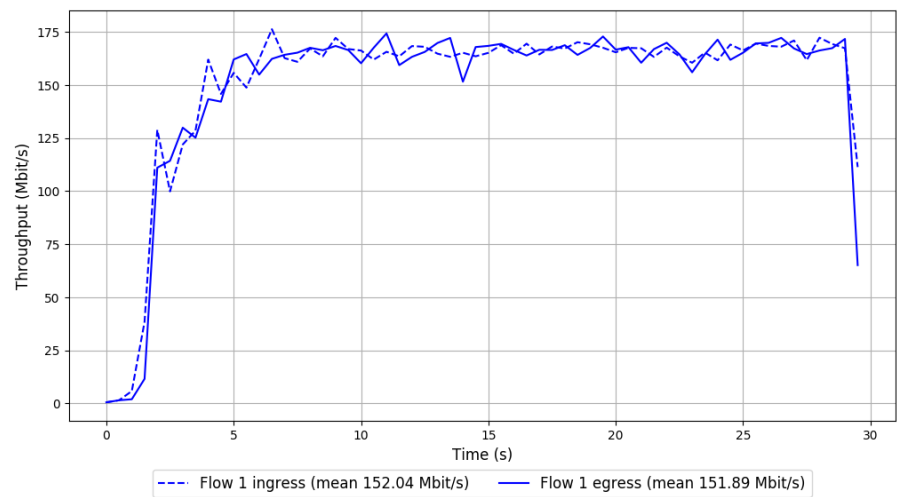
-- Flow 1:

Average throughput: 151.89 Mbit/s

95th percentile per-packet one-way delay: 136.412 ms

Loss rate: 1.02%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-21 09:12:36

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

Below is generated by plot.py at 2017-11-21 12:07:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 140.92 Mbit/s

95th percentile per-packet one-way delay: 136.413 ms

Loss rate: 1.01%

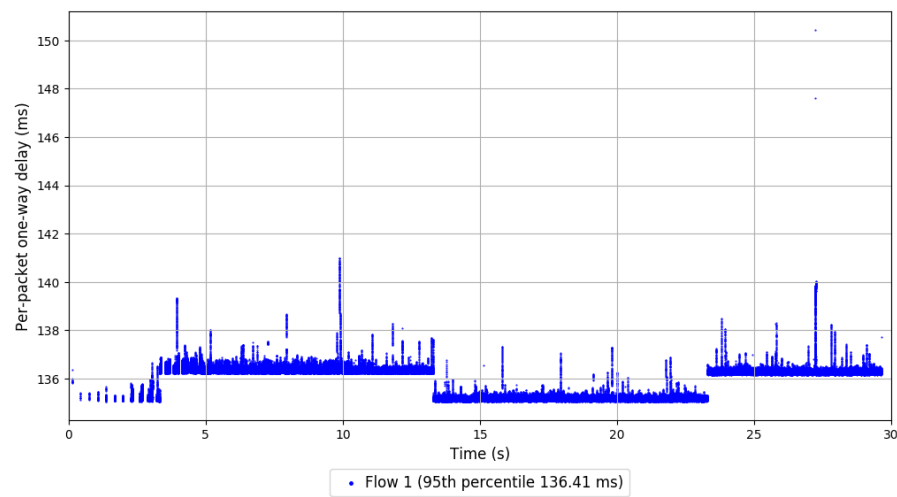
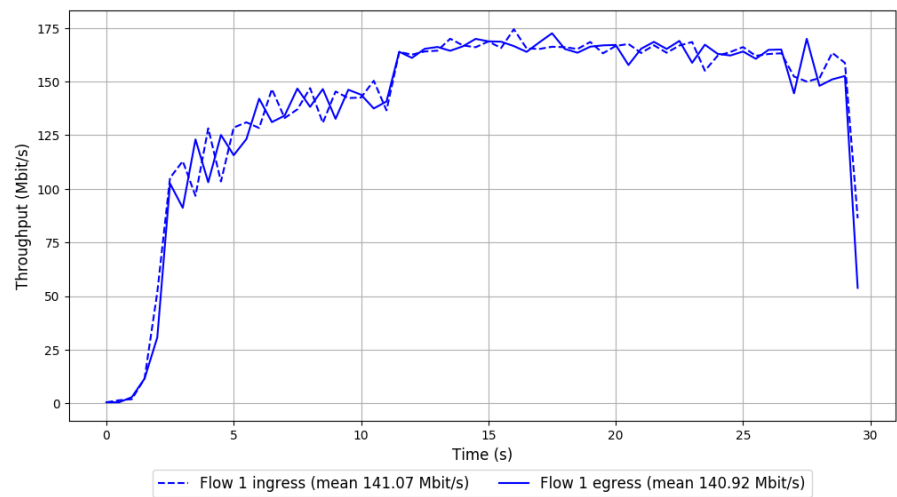
-- Flow 1:

Average throughput: 140.92 Mbit/s

95th percentile per-packet one-way delay: 136.413 ms

Loss rate: 1.01%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-21 09:24:20

End at: 2017-11-21 09:24:50

Below is generated by plot.py at 2017-11-21 12:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.41 Mbit/s

95th percentile per-packet one-way delay: 135.217 ms

Loss rate: 1.01%

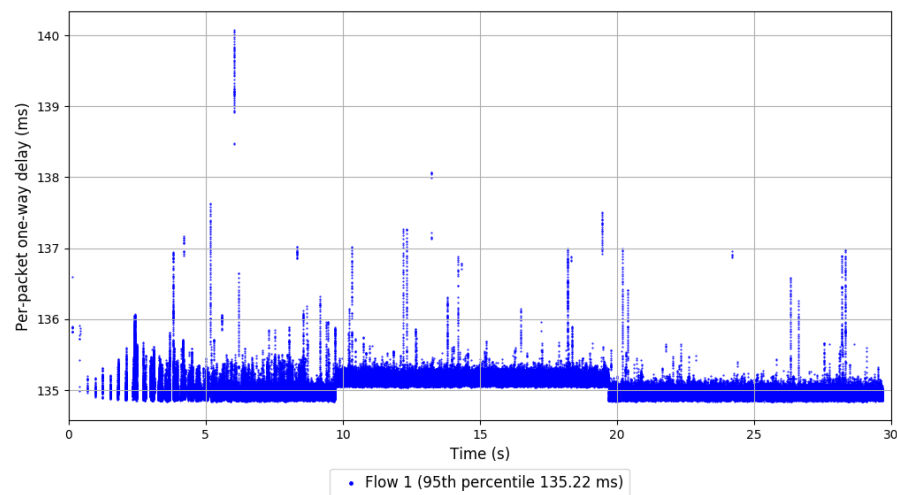
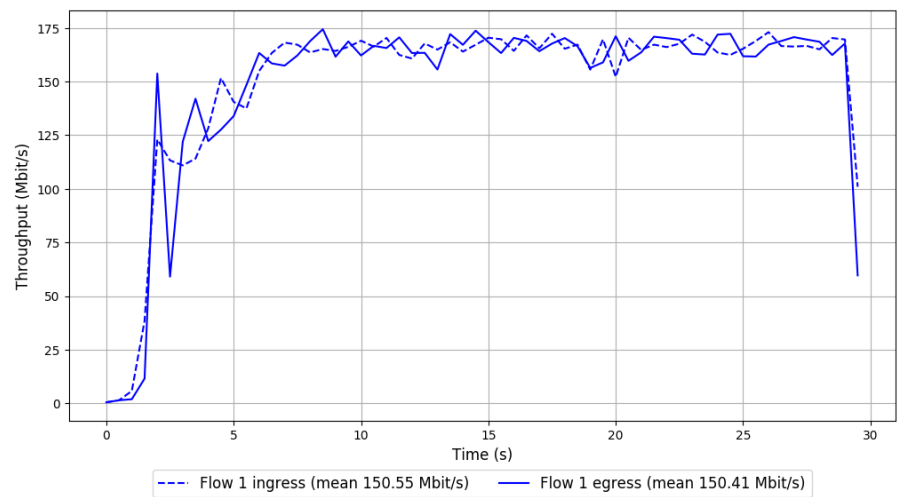
-- Flow 1:

Average throughput: 150.41 Mbit/s

95th percentile per-packet one-way delay: 135.217 ms

Loss rate: 1.01%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-11-21 09:35:46

End at: 2017-11-21 09:36:16

Below is generated by plot.py at 2017-11-21 12:08:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.05 Mbit/s

95th percentile per-packet one-way delay: 135.601 ms

Loss rate: 1.01%

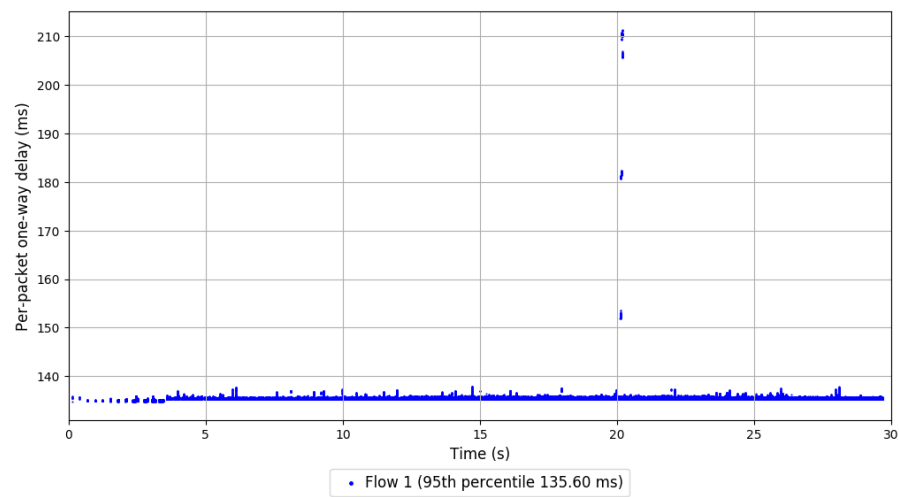
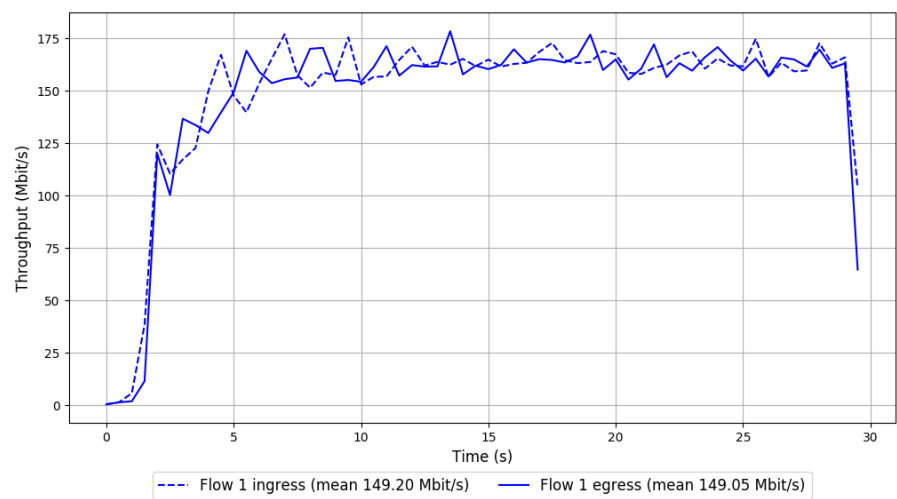
-- Flow 1:

Average throughput: 149.05 Mbit/s

95th percentile per-packet one-way delay: 135.601 ms

Loss rate: 1.01%

Run 10: Report of Indigo — Data Link

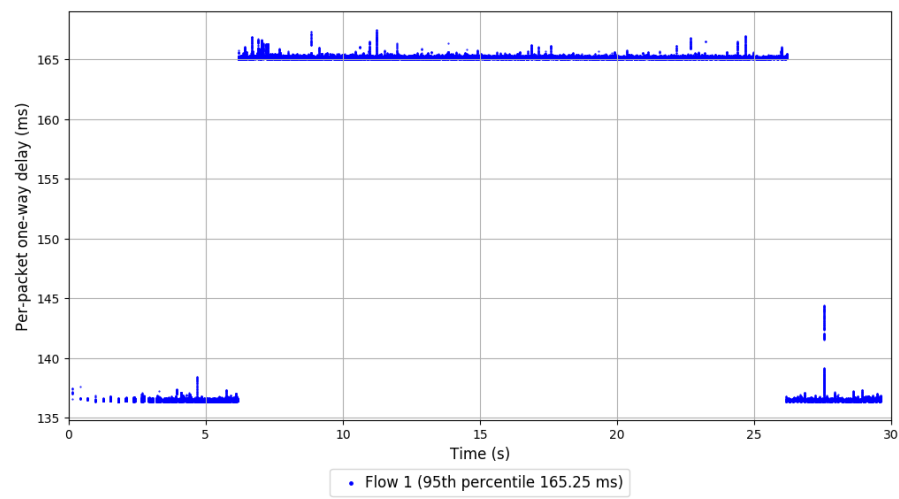
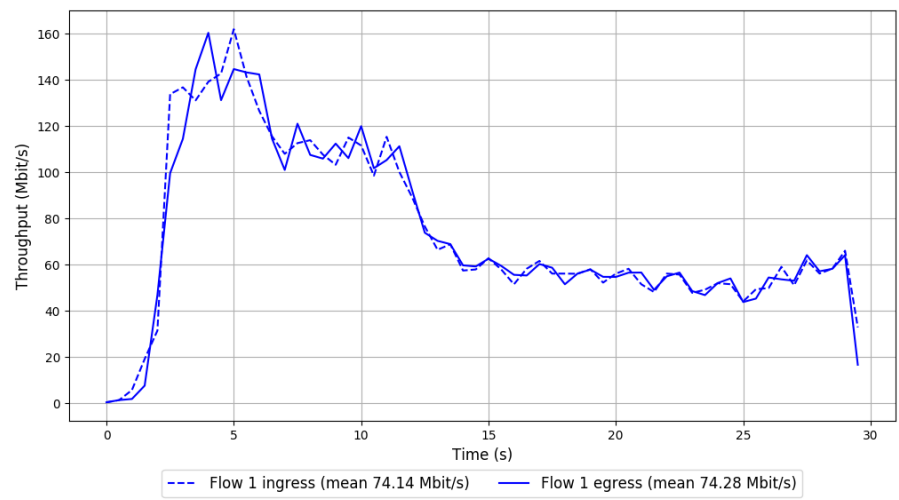


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-21 07:48:53
End at: 2017-11-21 07:49:23

# Below is generated by plot.py at 2017-11-21 12:08:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.28 Mbit/s
95th percentile per-packet one-way delay: 165.255 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 74.28 Mbit/s
95th percentile per-packet one-way delay: 165.255 ms
Loss rate: 0.75%
```

Run 1: Report of Indigo-calib — Data Link

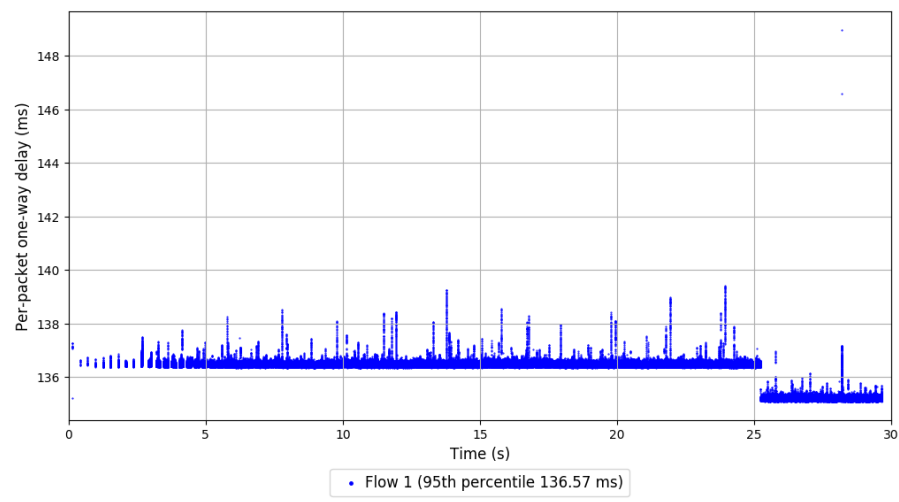
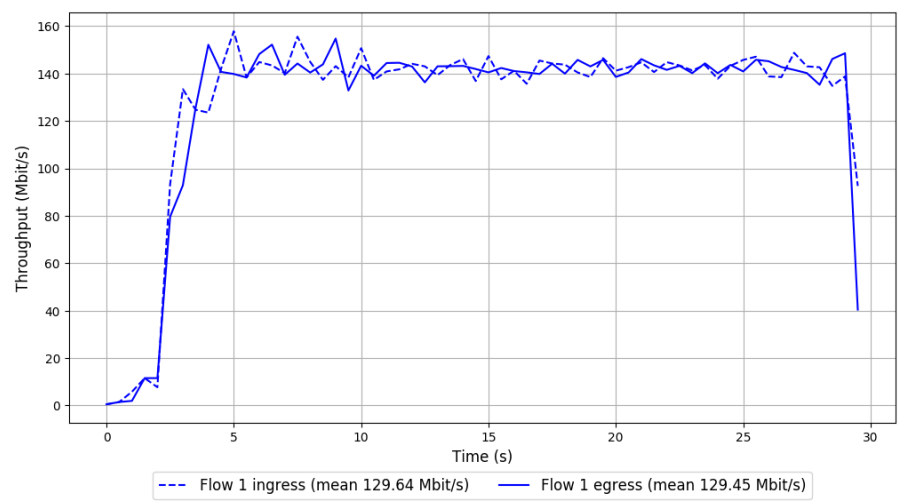


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-21 08:00:24
End at: 2017-11-21 08:00:54

# Below is generated by plot.py at 2017-11-21 12:08:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 129.45 Mbit/s
95th percentile per-packet one-way delay: 136.570 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 129.45 Mbit/s
95th percentile per-packet one-way delay: 136.570 ms
Loss rate: 1.05%
```

Run 2: Report of Indigo-calib — Data Link

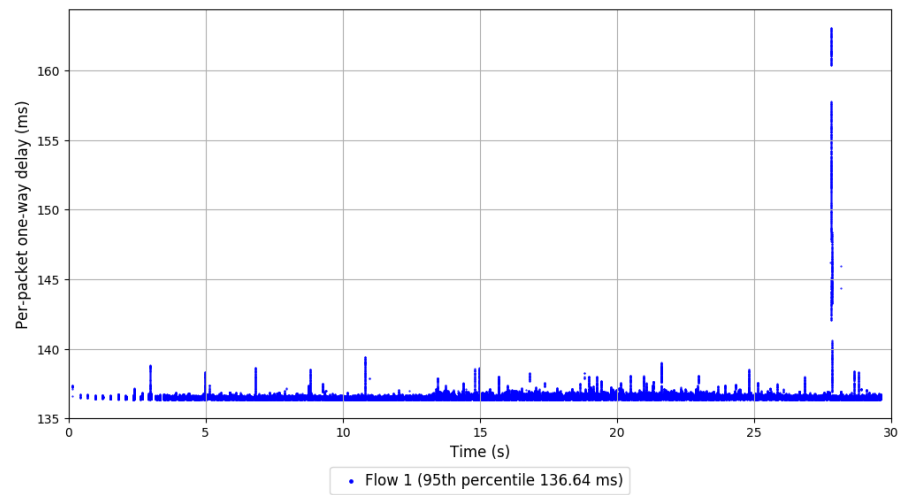
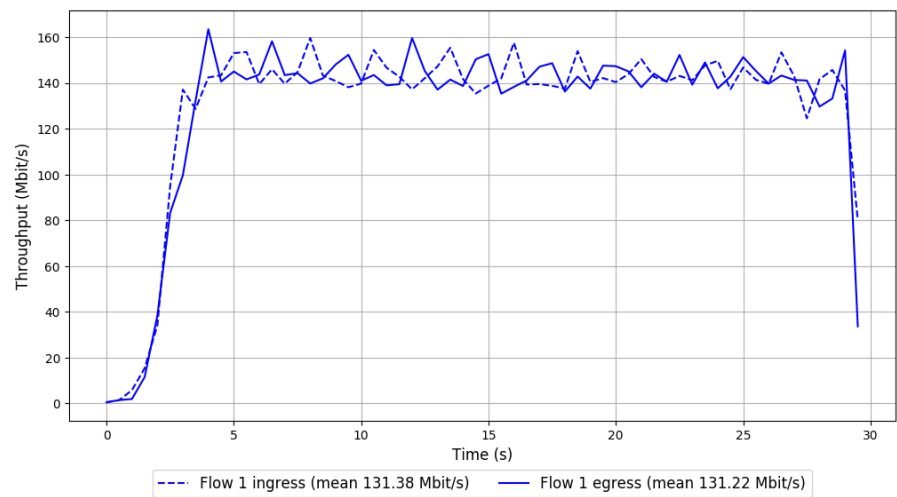


```
Run 3: Statistics of Indigo-calib

Start at: 2017-11-21 08:11:33
End at: 2017-11-21 08:12:03

# Below is generated by plot.py at 2017-11-21 12:09:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 131.22 Mbit/s
95th percentile per-packet one-way delay: 136.643 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 131.22 Mbit/s
95th percentile per-packet one-way delay: 136.643 ms
Loss rate: 1.04%
```


Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-11-21 08:23:16

End at: 2017-11-21 08:23:46

Below is generated by plot.py at 2017-11-21 12:09:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.75 Mbit/s

95th percentile per-packet one-way delay: 136.690 ms

Loss rate: 0.89%

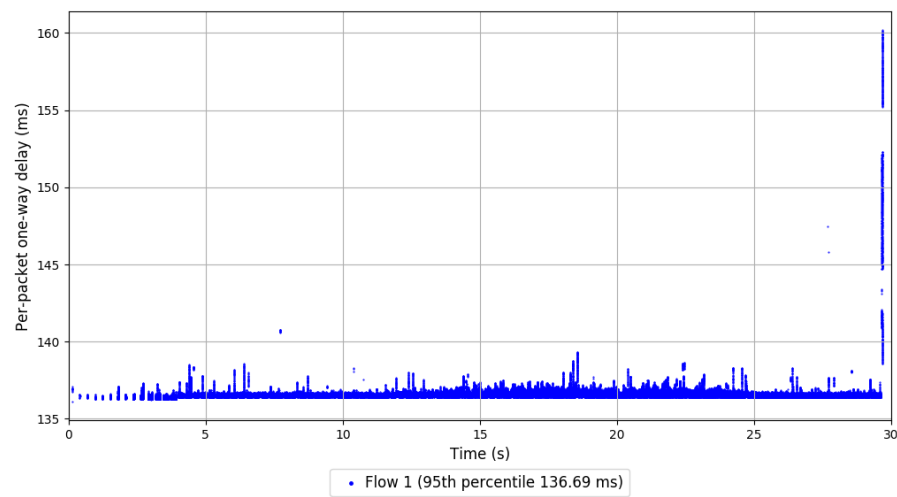
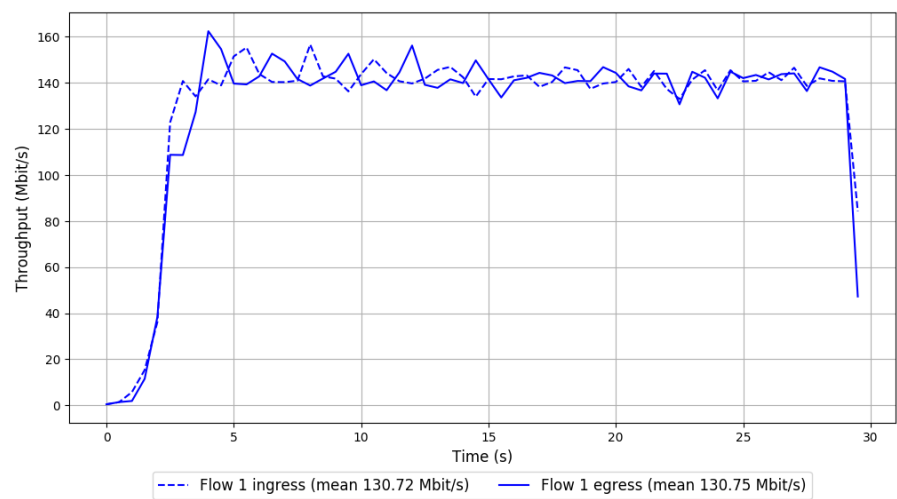
-- Flow 1:

Average throughput: 130.75 Mbit/s

95th percentile per-packet one-way delay: 136.690 ms

Loss rate: 0.89%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-11-21 08:34:44

End at: 2017-11-21 08:35:14

Below is generated by plot.py at 2017-11-21 12:09:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.90 Mbit/s

95th percentile per-packet one-way delay: 136.426 ms

Loss rate: 0.91%

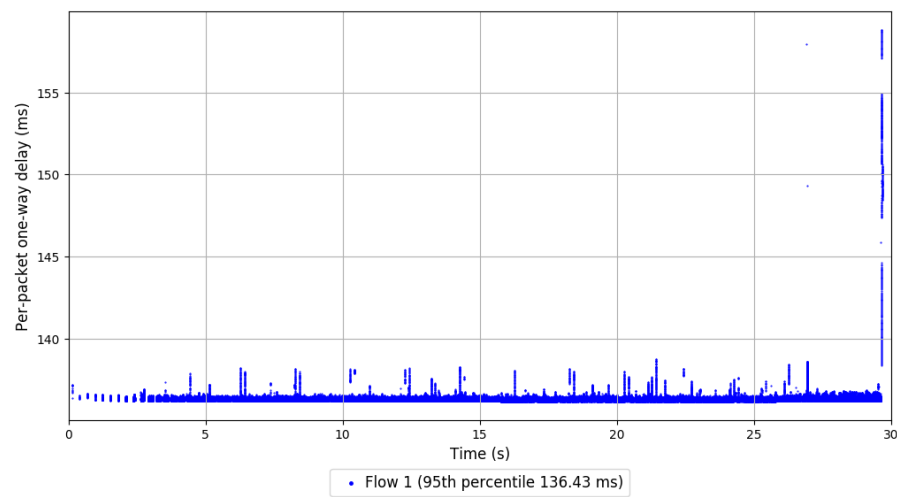
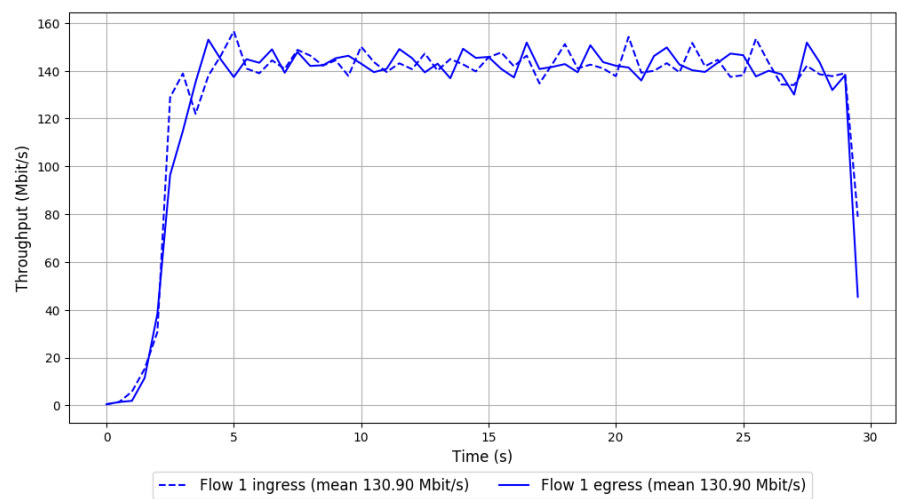
-- Flow 1:

Average throughput: 130.90 Mbit/s

95th percentile per-packet one-way delay: 136.426 ms

Loss rate: 0.91%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-11-21 08:46:11

End at: 2017-11-21 08:46:41

Below is generated by plot.py at 2017-11-21 12:09:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 129.62 Mbit/s

95th percentile per-packet one-way delay: 136.426 ms

Loss rate: 0.99%

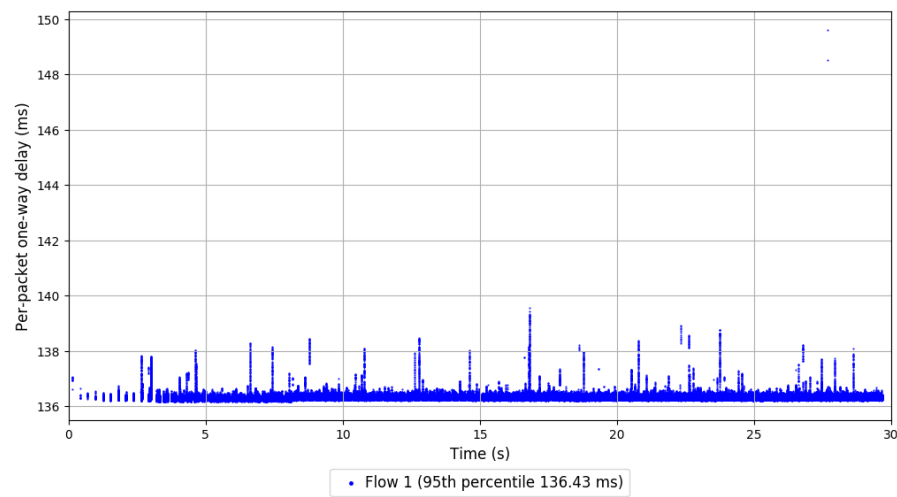
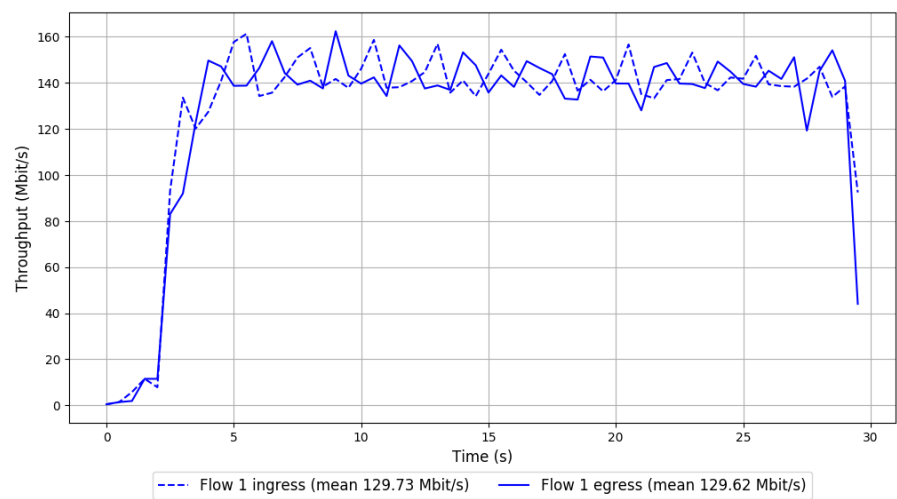
-- Flow 1:

Average throughput: 129.62 Mbit/s

95th percentile per-packet one-way delay: 136.426 ms

Loss rate: 0.99%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-11-21 08:57:26

End at: 2017-11-21 08:57:56

Below is generated by plot.py at 2017-11-21 12:09:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.04 Mbit/s

95th percentile per-packet one-way delay: 136.421 ms

Loss rate: 1.02%

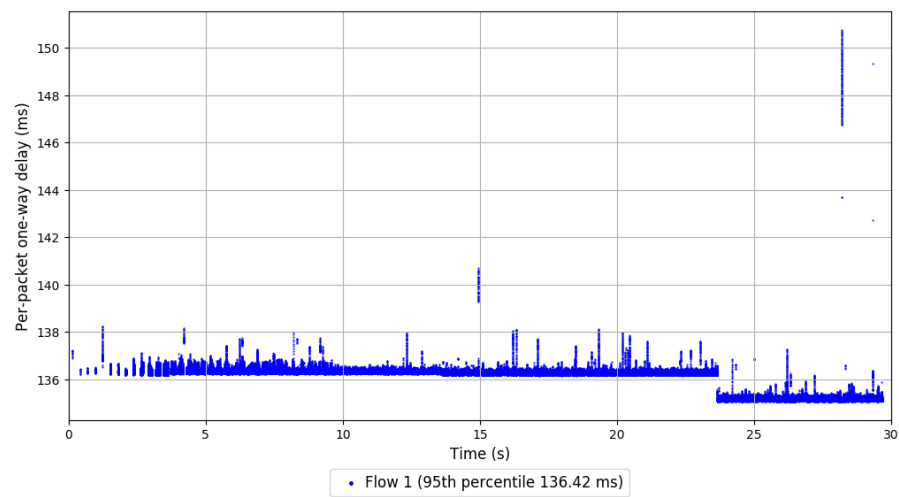
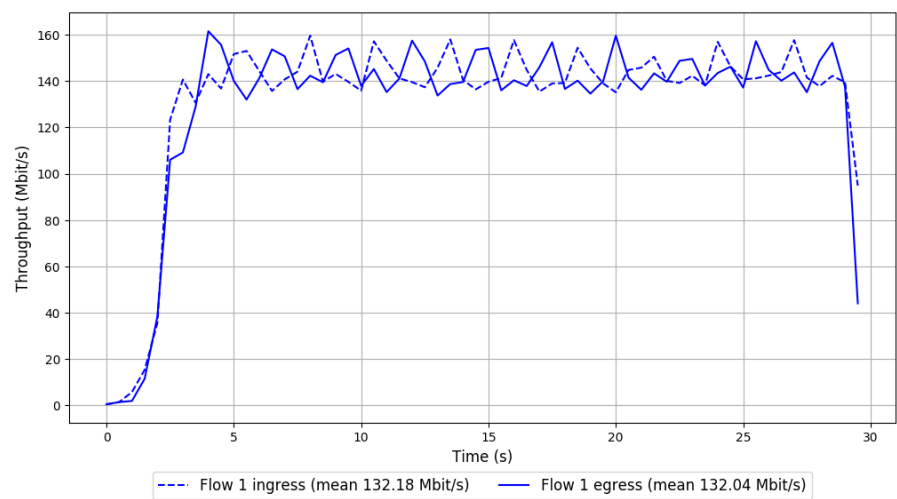
-- Flow 1:

Average throughput: 132.04 Mbit/s

95th percentile per-packet one-way delay: 136.421 ms

Loss rate: 1.02%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-21 09:08:43

End at: 2017-11-21 09:09:13

Below is generated by plot.py at 2017-11-21 12:09:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.67 Mbit/s

95th percentile per-packet one-way delay: 136.438 ms

Loss rate: 1.03%

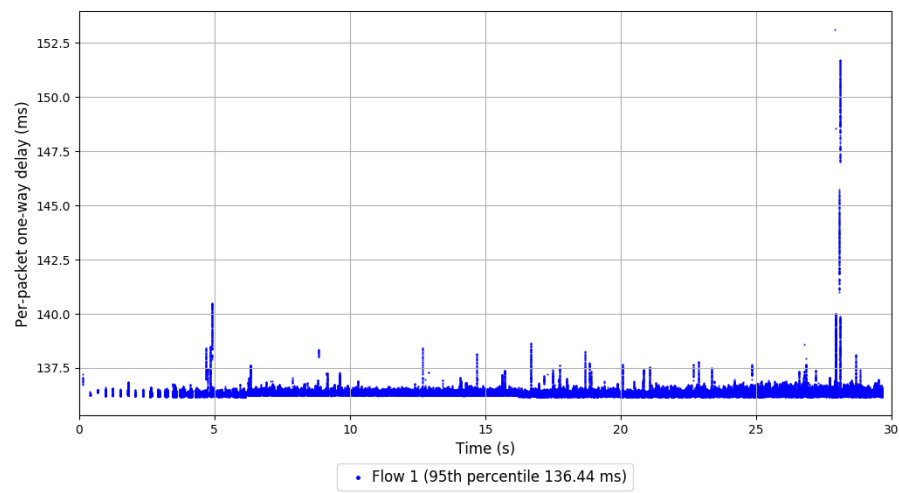
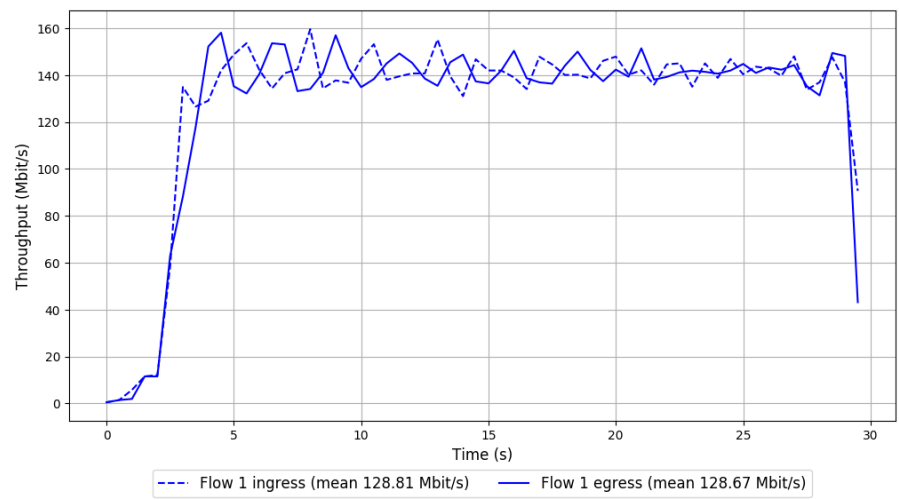
-- Flow 1:

Average throughput: 128.67 Mbit/s

95th percentile per-packet one-way delay: 136.438 ms

Loss rate: 1.03%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-11-21 09:20:25

End at: 2017-11-21 09:20:55

Below is generated by plot.py at 2017-11-21 12:09:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 129.91 Mbit/s

95th percentile per-packet one-way delay: 136.460 ms

Loss rate: 0.85%

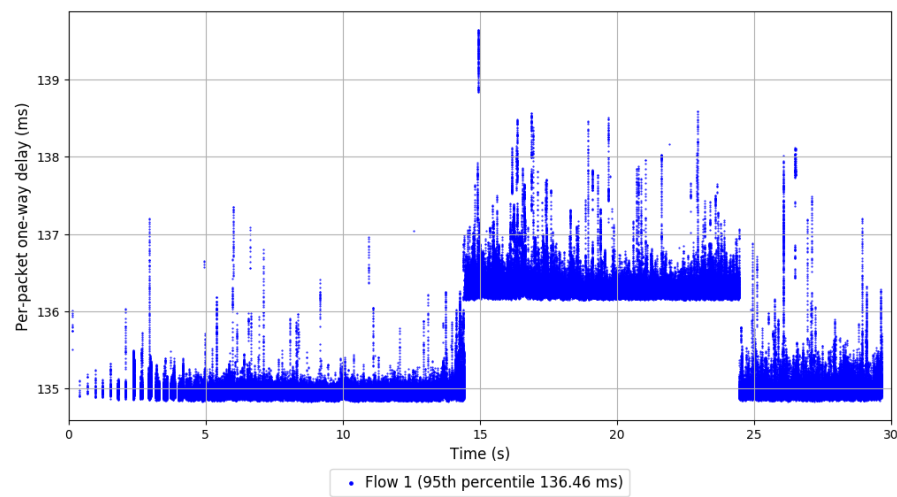
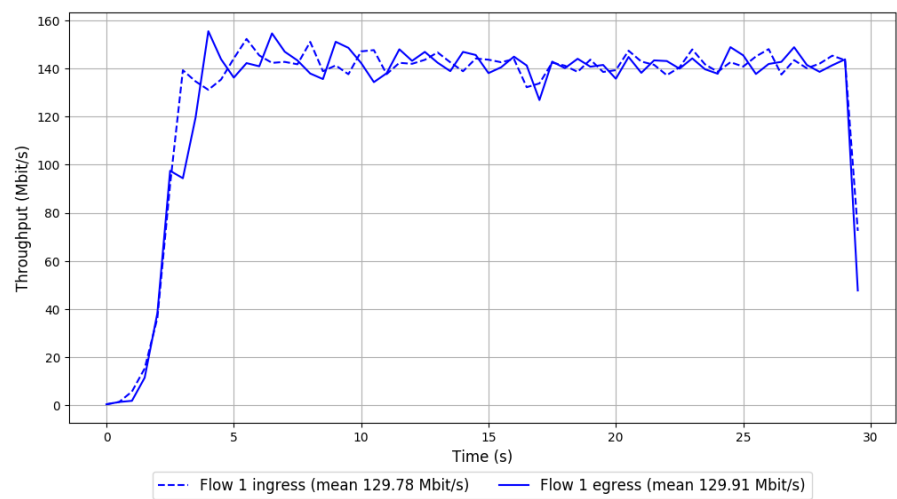
-- Flow 1:

Average throughput: 129.91 Mbit/s

95th percentile per-packet one-way delay: 136.460 ms

Loss rate: 0.85%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-21 09:31:55

End at: 2017-11-21 09:32:25

Run 10: Report of Indigo-calib — Data Link

