

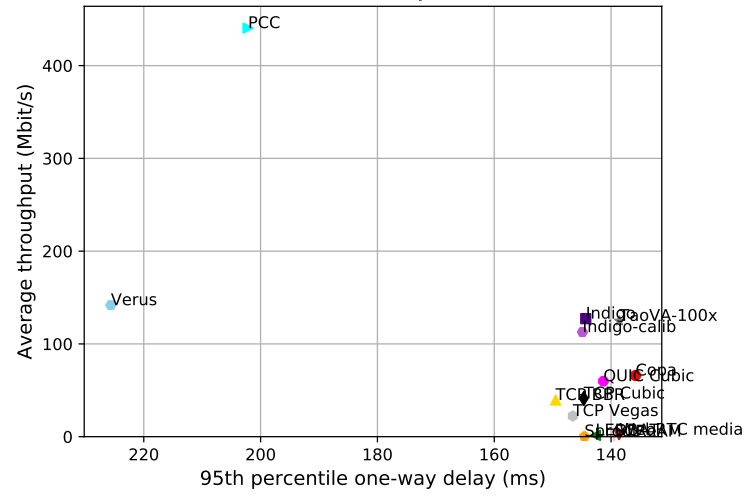
Pantheon Report

Generated at 2017-11-16 11:01:11 (UTC).
Data path: GCE Sydney Ethernet (*local*) → GCE London Ethernet (*remote*).
Repeated the test of 14 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

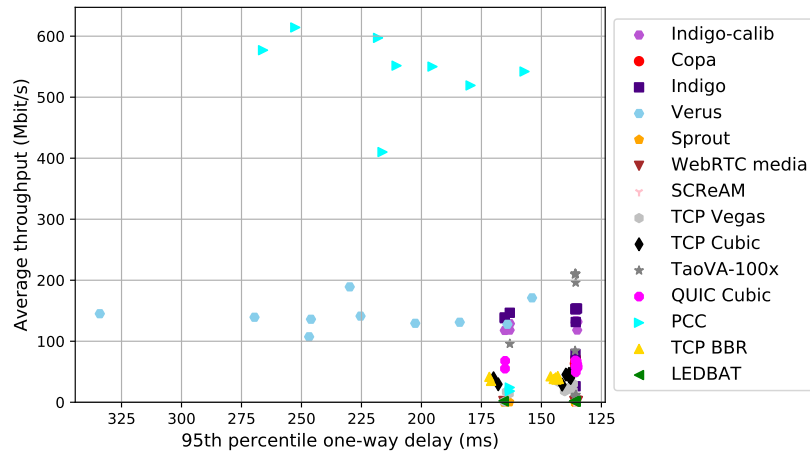
Git summary:

```
branch: indigos @ f54f2953f2a9765c9ffa988d13de5a9471790eb0
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fab936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	39.53	149.50	0.12
TCP Cubic	10	41.18	144.67	0.01
LEDBAT	9	1.41	142.67	0.20
PCC	10	440.44	202.15	1.27
QUIC Cubic	10	59.84	141.32	0.00
SCReAM	8	0.22	139.50	0.00
WebRTC media	10	2.10	138.62	0.00
Sprout	10	0.38	144.57	0.02
TaoVA-100x	10	124.83	138.57	0.00
TCP Vegas	10	22.32	146.55	0.02
Verus	10	141.76	225.64	1.68
Copa	7	65.97	135.81	0.00
Indigo	10	127.26	144.33	0.02
Indigo-calib	9	112.79	144.91	0.01

Run 1: Statistics of TCP BBR

Start at: 2017-11-16 08:15:05

End at: 2017-11-16 08:15:35

Below is generated by plot.py at 2017-11-16 10:33:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.17 Mbit/s

95th percentile per-packet one-way delay: 144.871 ms

Loss rate: 0.03%

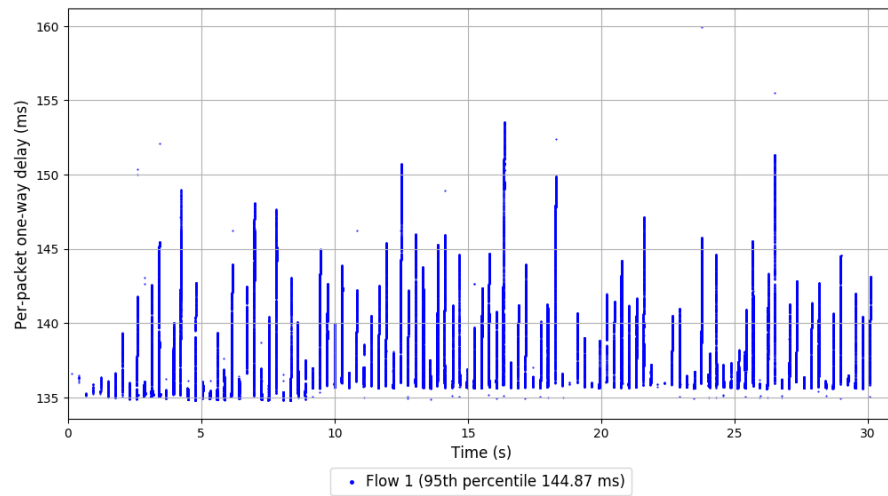
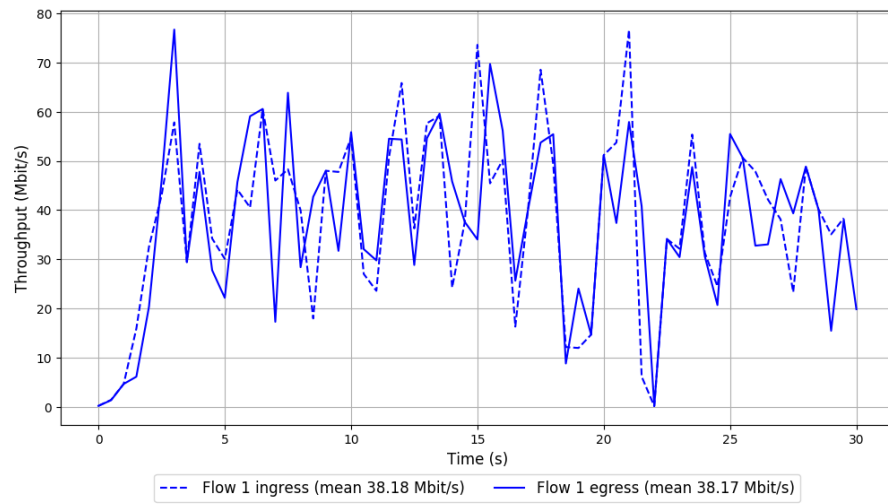
-- Flow 1:

Average throughput: 38.17 Mbit/s

95th percentile per-packet one-way delay: 144.871 ms

Loss rate: 0.03%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-16 08:26:09

End at: 2017-11-16 08:26:39

Below is generated by plot.py at 2017-11-16 10:33:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.75 Mbit/s

95th percentile per-packet one-way delay: 144.038 ms

Loss rate: 0.07%

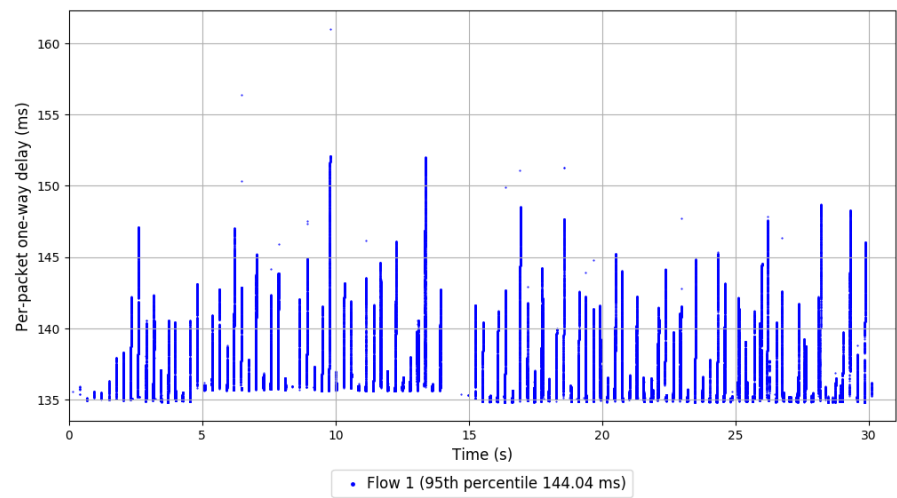
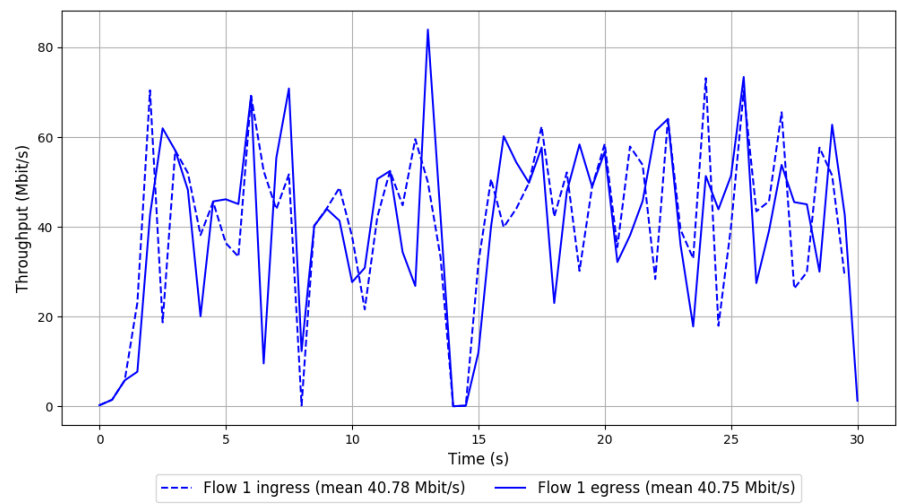
-- Flow 1:

Average throughput: 40.75 Mbit/s

95th percentile per-packet one-way delay: 144.038 ms

Loss rate: 0.07%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-16 08:37:12

End at: 2017-11-16 08:37:42

Below is generated by plot.py at 2017-11-16 10:33:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.64 Mbit/s

95th percentile per-packet one-way delay: 171.715 ms

Loss rate: 0.02%

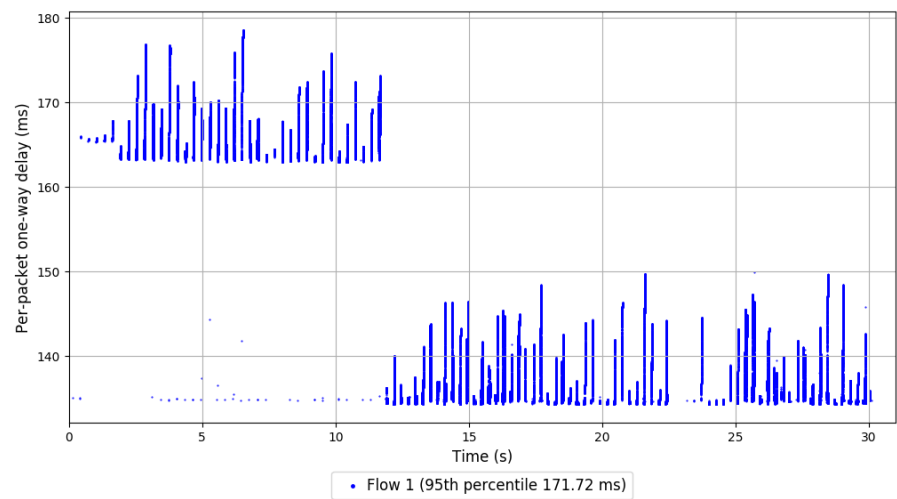
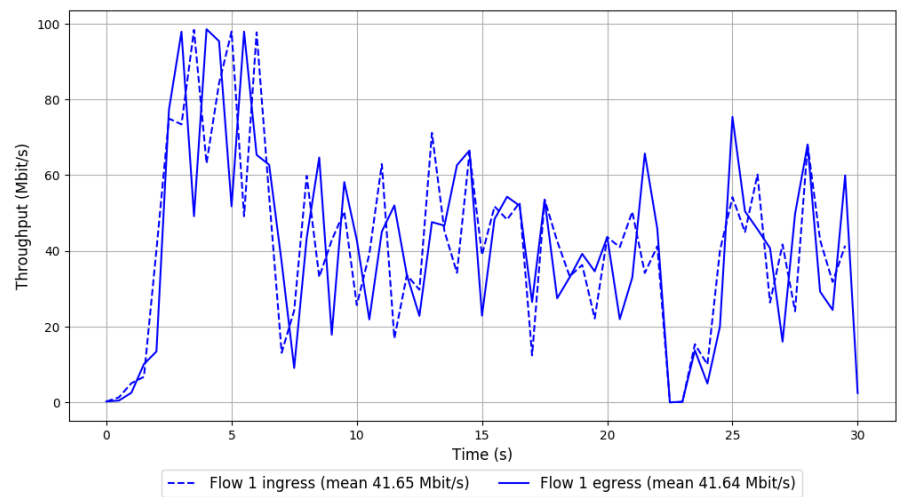
-- Flow 1:

Average throughput: 41.64 Mbit/s

95th percentile per-packet one-way delay: 171.715 ms

Loss rate: 0.02%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-16 08:48:25

End at: 2017-11-16 08:48:55

Below is generated by plot.py at 2017-11-16 10:33:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.05 Mbit/s

95th percentile per-packet one-way delay: 170.996 ms

Loss rate: 0.01%

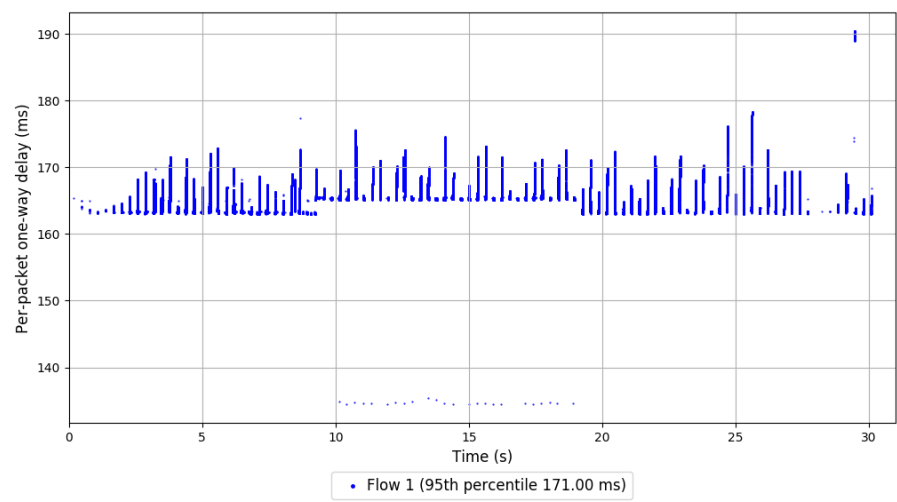
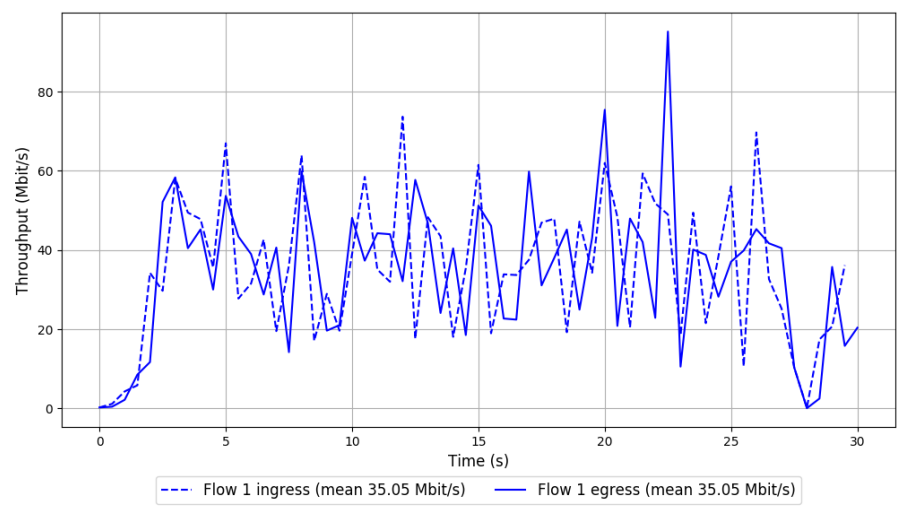
-- Flow 1:

Average throughput: 35.05 Mbit/s

95th percentile per-packet one-way delay: 170.996 ms

Loss rate: 0.01%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-16 08:59:32

End at: 2017-11-16 09:00:03

Below is generated by plot.py at 2017-11-16 10:33:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.53 Mbit/s

95th percentile per-packet one-way delay: 146.182 ms

Loss rate: 0.01%

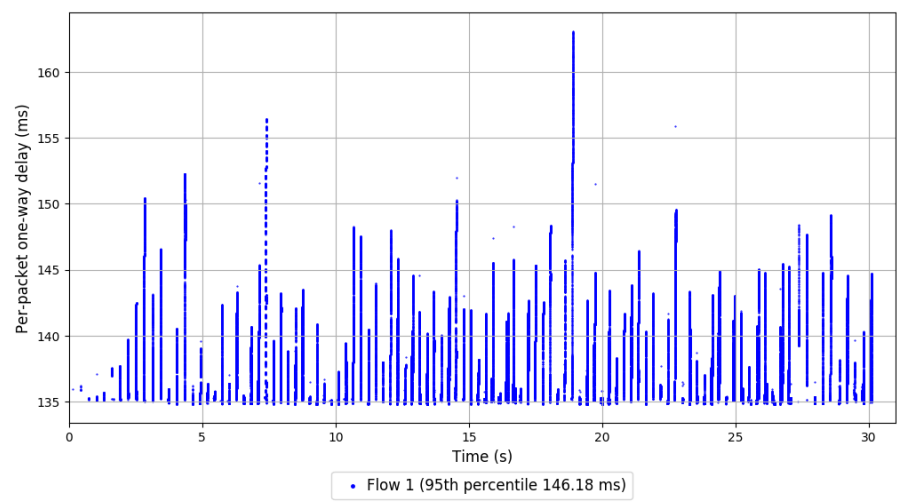
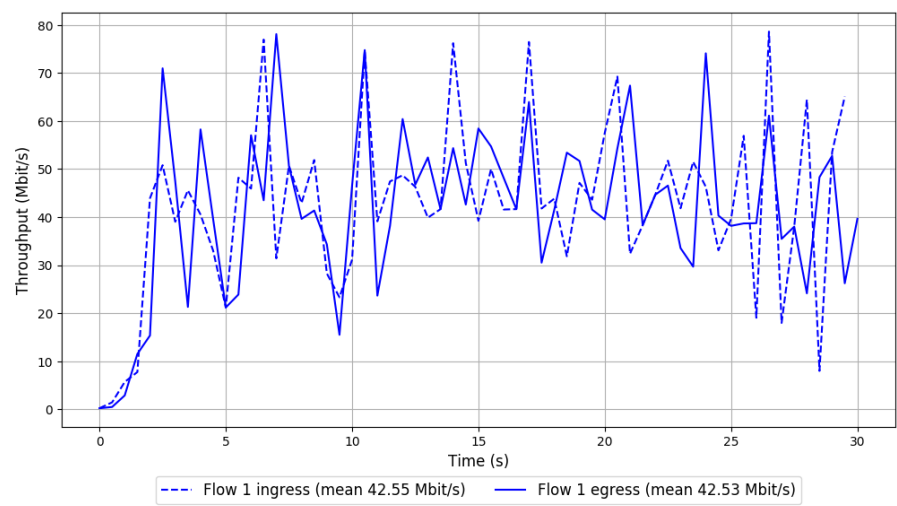
-- Flow 1:

Average throughput: 42.53 Mbit/s

95th percentile per-packet one-way delay: 146.182 ms

Loss rate: 0.01%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-16 09:10:59

End at: 2017-11-16 09:11:29

Below is generated by plot.py at 2017-11-16 10:33:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.73 Mbit/s

95th percentile per-packet one-way delay: 143.116 ms

Loss rate: 0.98%

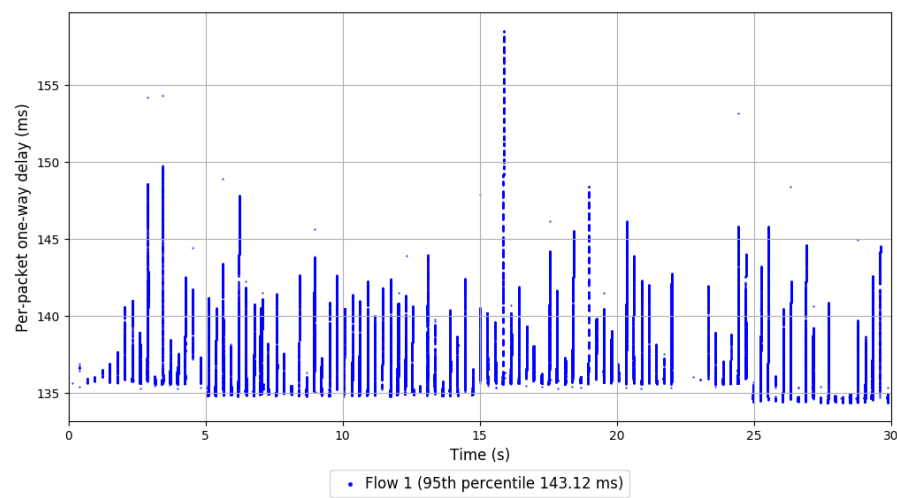
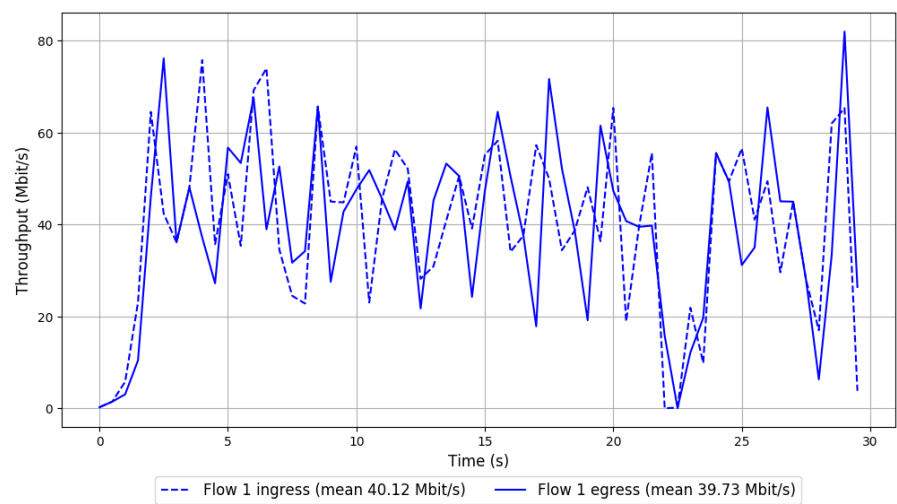
-- Flow 1:

Average throughput: 39.73 Mbit/s

95th percentile per-packet one-way delay: 143.116 ms

Loss rate: 0.98%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-16 09:22:26

End at: 2017-11-16 09:22:56

Below is generated by plot.py at 2017-11-16 10:33:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.98 Mbit/s

95th percentile per-packet one-way delay: 143.175 ms

Loss rate: 0.01%

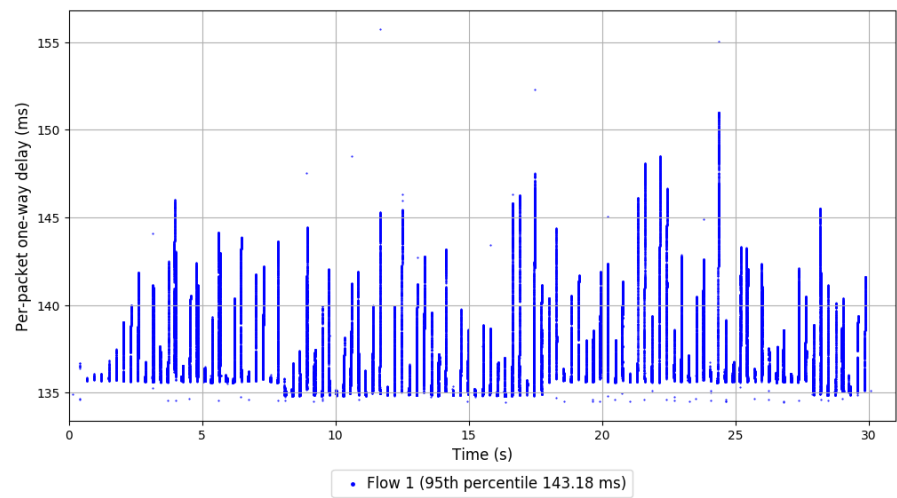
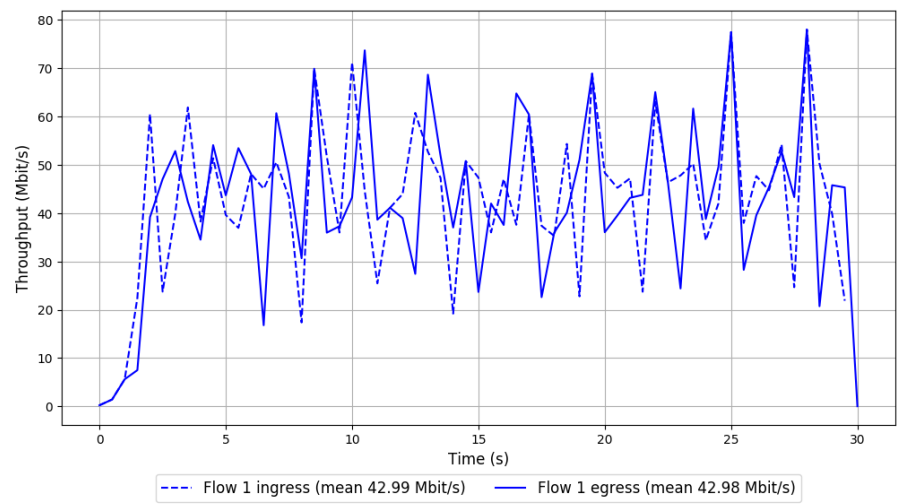
-- Flow 1:

Average throughput: 42.98 Mbit/s

95th percentile per-packet one-way delay: 143.175 ms

Loss rate: 0.01%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-16 09:33:43

End at: 2017-11-16 09:34:13

Below is generated by plot.py at 2017-11-16 10:33:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.00 Mbit/s

95th percentile per-packet one-way delay: 144.427 ms

Loss rate: 0.03%

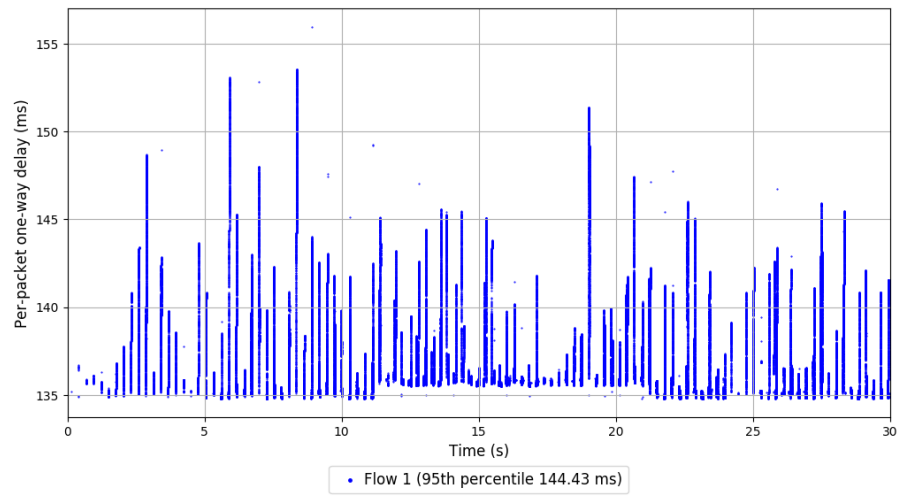
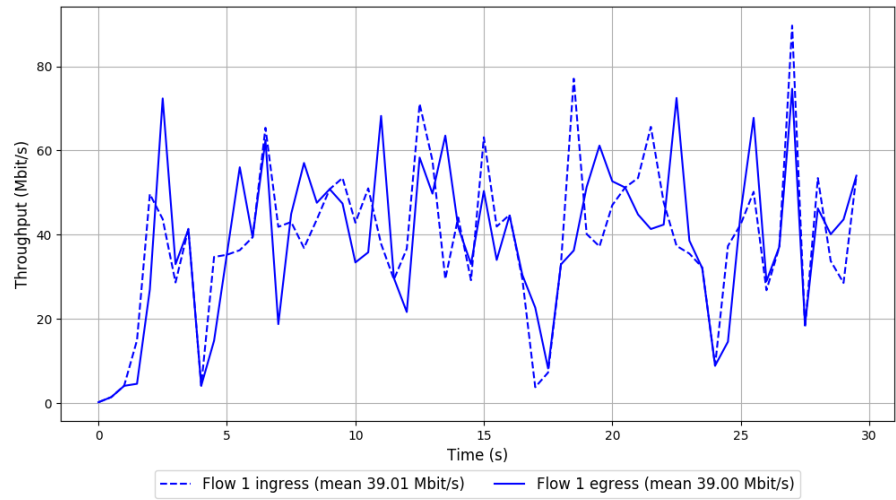
-- Flow 1:

Average throughput: 39.00 Mbit/s

95th percentile per-packet one-way delay: 144.427 ms

Loss rate: 0.03%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-16 09:45:17

End at: 2017-11-16 09:45:47

Below is generated by plot.py at 2017-11-16 10:33:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.23 Mbit/s

95th percentile per-packet one-way delay: 143.740 ms

Loss rate: 0.01%

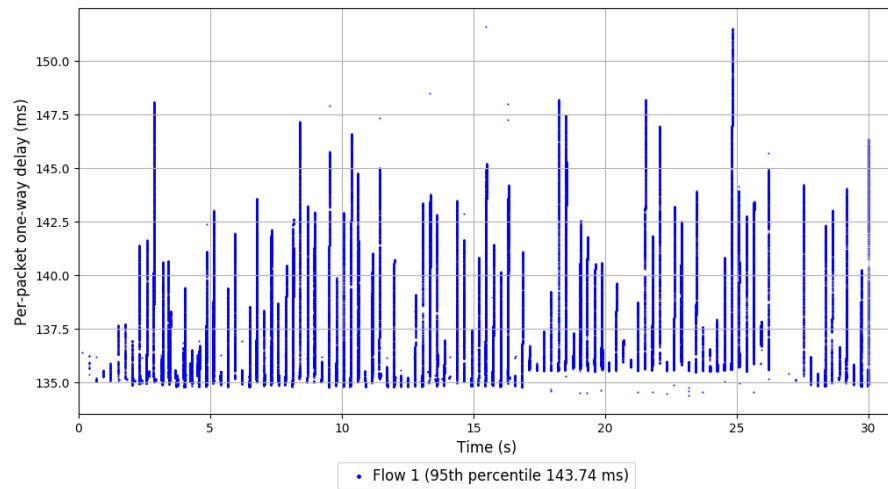
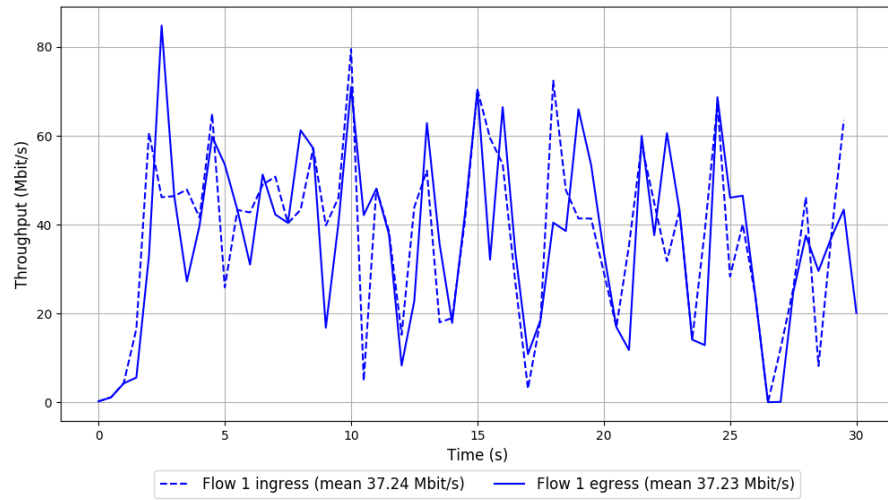
-- Flow 1:

Average throughput: 37.23 Mbit/s

95th percentile per-packet one-way delay: 143.740 ms

Loss rate: 0.01%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-16 09:56:41

End at: 2017-11-16 09:57:11

Below is generated by plot.py at 2017-11-16 10:33:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.22 Mbit/s

95th percentile per-packet one-way delay: 142.735 ms

Loss rate: 0.05%

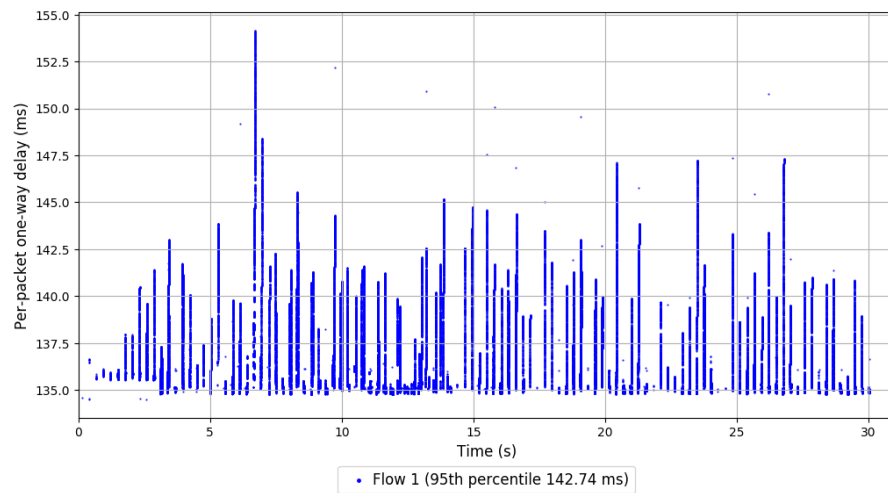
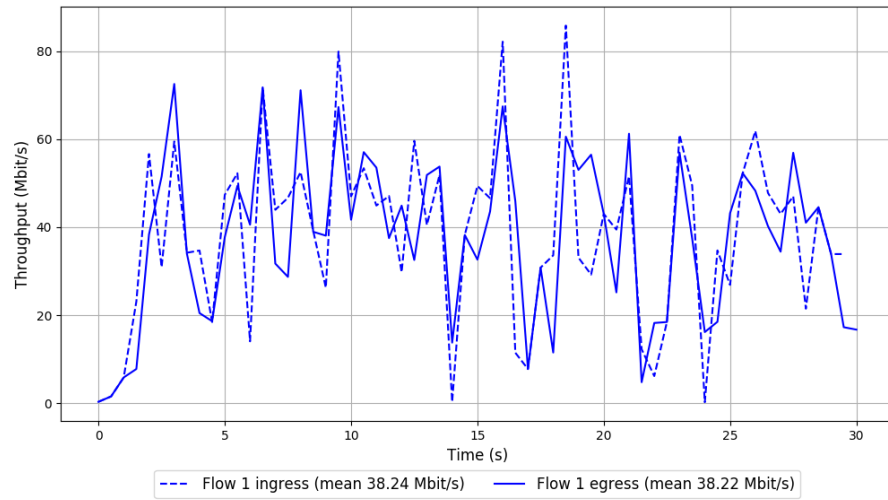
-- Flow 1:

Average throughput: 38.22 Mbit/s

95th percentile per-packet one-way delay: 142.735 ms

Loss rate: 0.05%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-16 08:15:51

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

Below is generated by plot.py at 2017-11-16 10:34:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.73 Mbit/s

95th percentile per-packet one-way delay: 138.554 ms

Loss rate: 0.00%

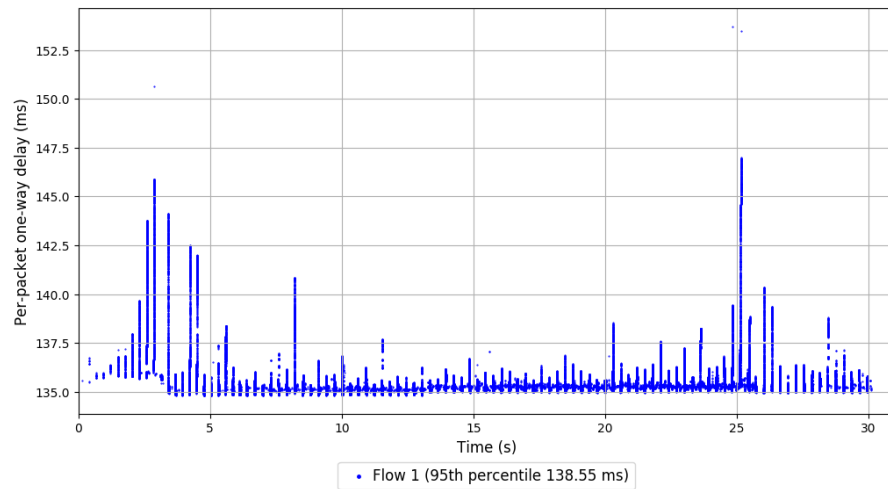
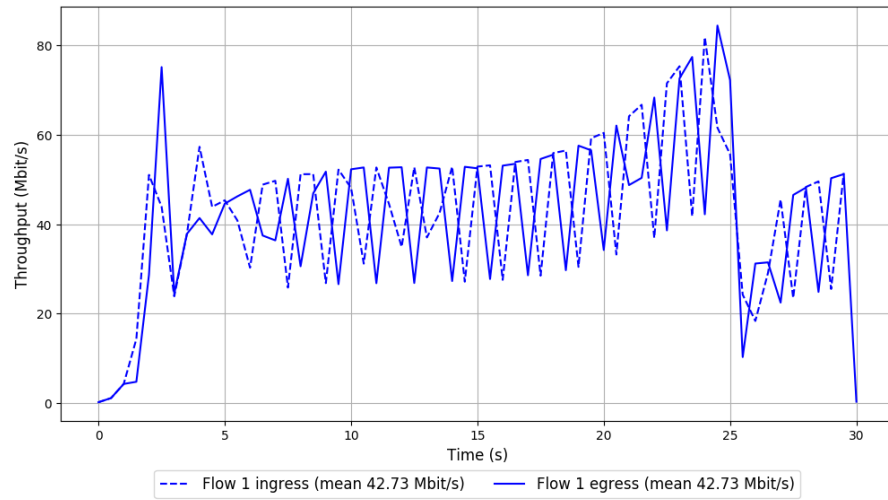
-- Flow 1:

Average throughput: 42.73 Mbit/s

95th percentile per-packet one-way delay: 138.554 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-16 08:26:55

End at: 2017-11-16 08:27:25

Below is generated by plot.py at 2017-11-16 10:34:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.92 Mbit/s

95th percentile per-packet one-way delay: 141.340 ms

Loss rate: 0.02%

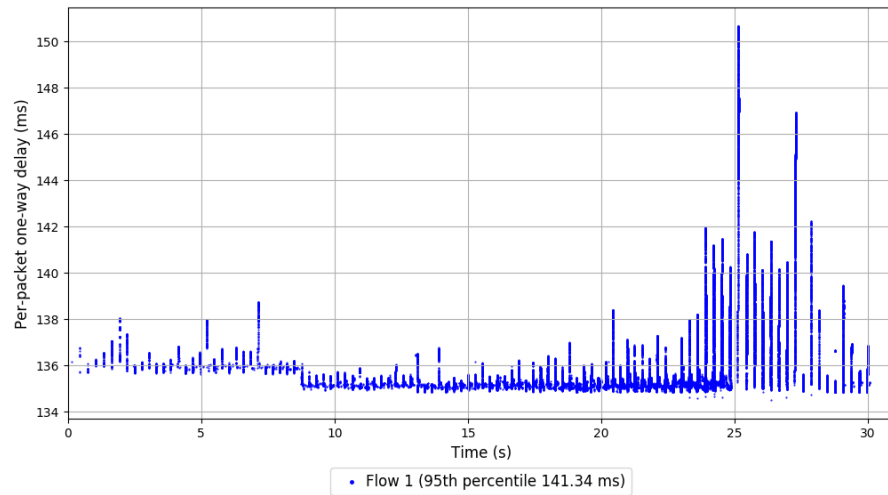
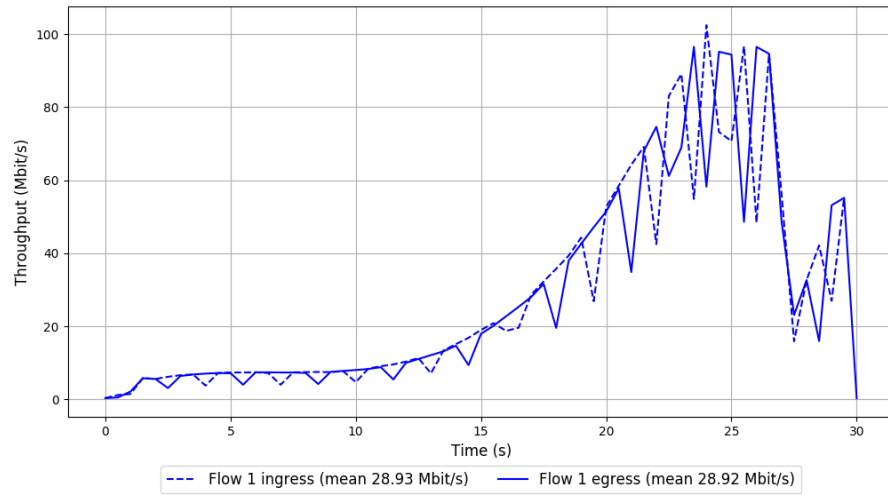
-- Flow 1:

Average throughput: 28.92 Mbit/s

95th percentile per-packet one-way delay: 141.340 ms

Loss rate: 0.02%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-16 08:37:58

End at: 2017-11-16 08:38:28

Below is generated by plot.py at 2017-11-16 10:34:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.36 Mbit/s

95th percentile per-packet one-way delay: 169.954 ms

Loss rate: 0.00%

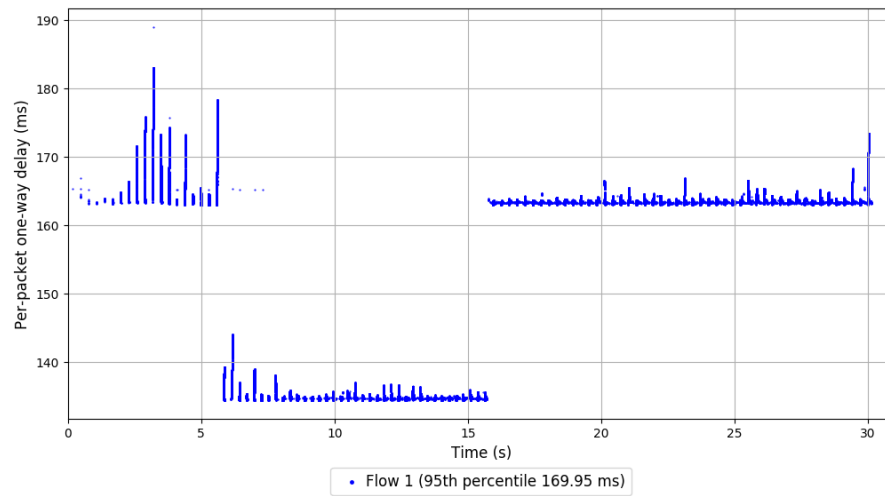
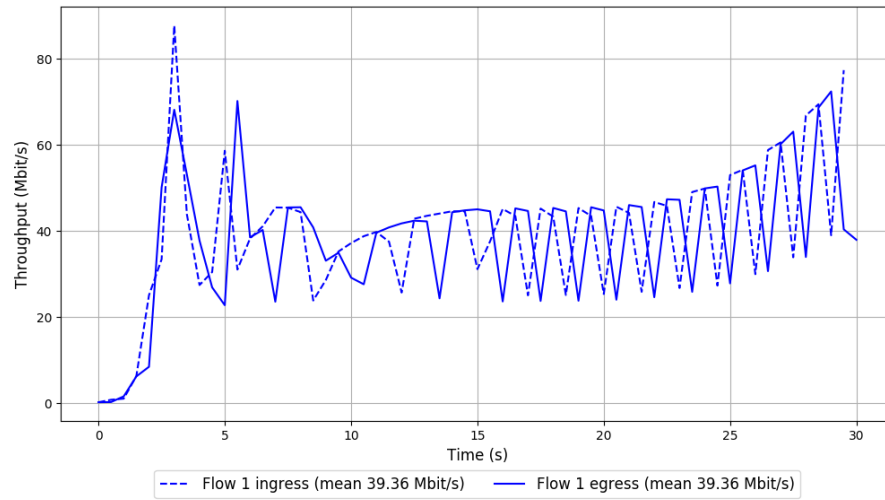
-- Flow 1:

Average throughput: 39.36 Mbit/s

95th percentile per-packet one-way delay: 169.954 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-16 08:49:11

End at: 2017-11-16 08:49:41

Below is generated by plot.py at 2017-11-16 10:34:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.45 Mbit/s

95th percentile per-packet one-way delay: 167.987 ms

Loss rate: 0.01%

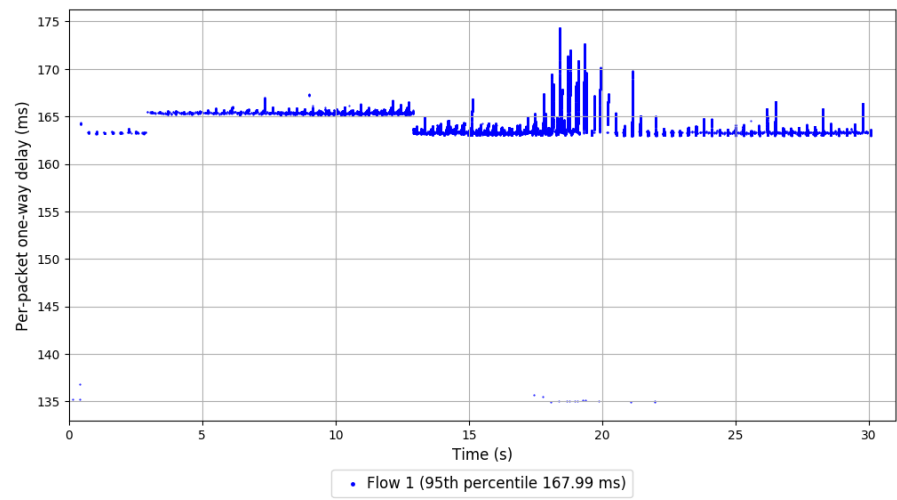
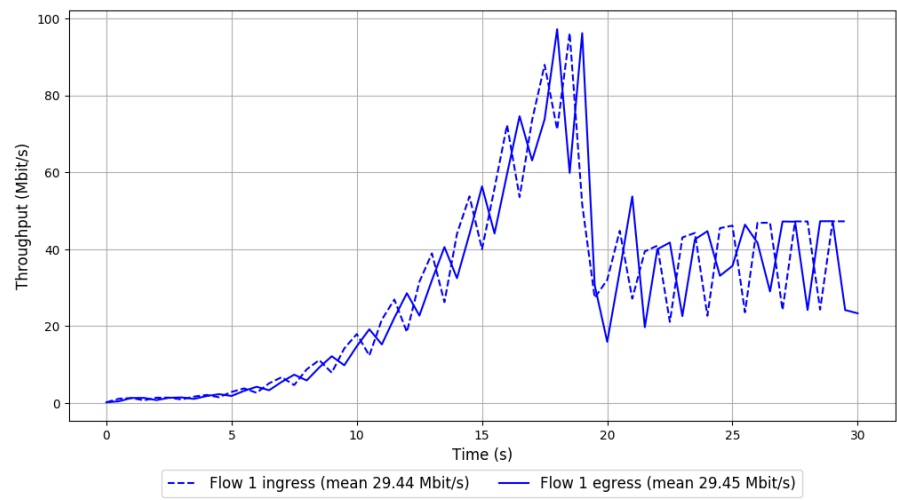
-- Flow 1:

Average throughput: 29.45 Mbit/s

95th percentile per-packet one-way delay: 167.987 ms

Loss rate: 0.01%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-16 09:00:19

End at: 2017-11-16 09:00:49

Below is generated by plot.py at 2017-11-16 10:34:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.11 Mbit/s

95th percentile per-packet one-way delay: 137.934 ms

Loss rate: 0.01%

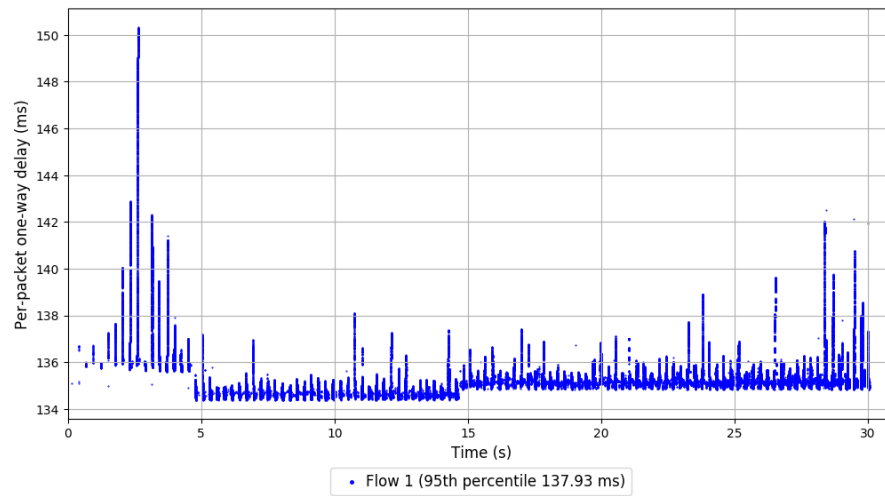
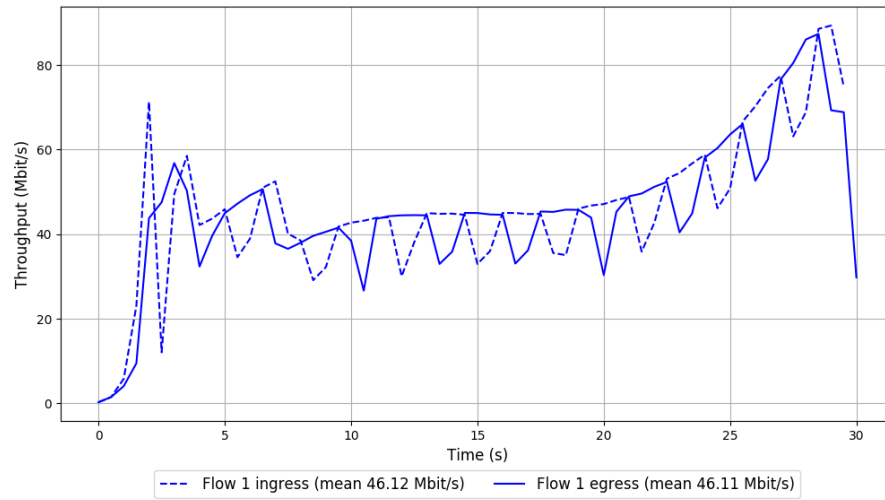
-- Flow 1:

Average throughput: 46.11 Mbit/s

95th percentile per-packet one-way delay: 137.934 ms

Loss rate: 0.01%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-16 09:11:45

End at: 2017-11-16 09:12:15

Below is generated by plot.py at 2017-11-16 10:34:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.23 Mbit/s

95th percentile per-packet one-way delay: 136.711 ms

Loss rate: 0.00%

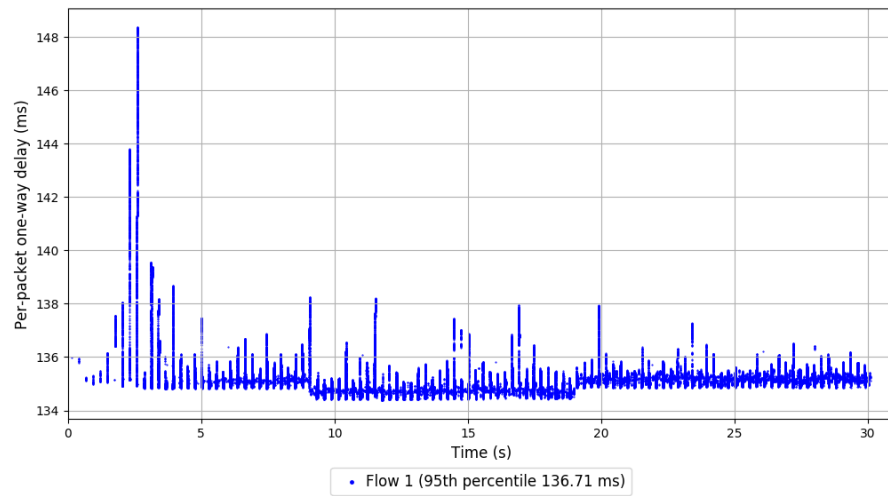
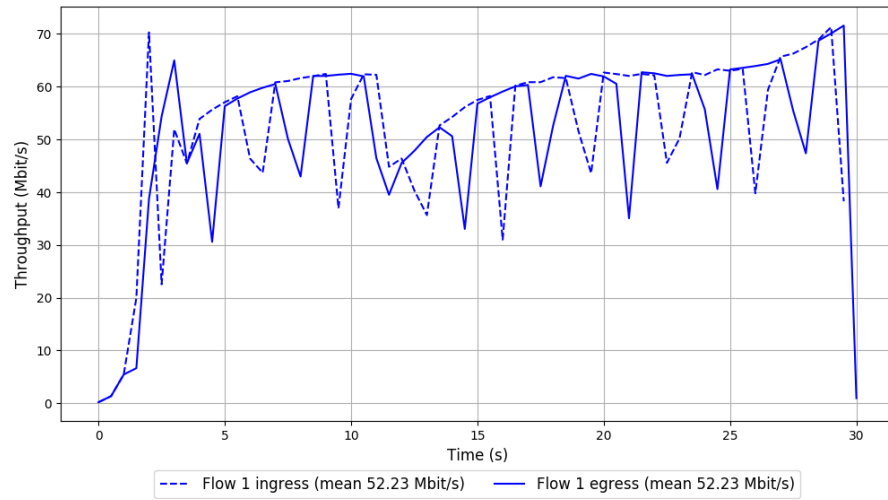
-- Flow 1:

Average throughput: 52.23 Mbit/s

95th percentile per-packet one-way delay: 136.711 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-16 09:23:12

End at: 2017-11-16 09:23:42

Below is generated by plot.py at 2017-11-16 10:34:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.33 Mbit/s

95th percentile per-packet one-way delay: 139.809 ms

Loss rate: 0.01%

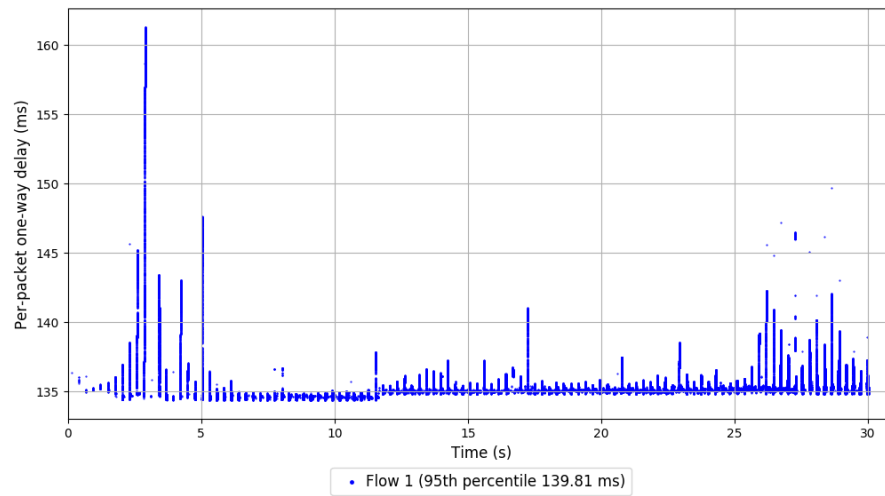
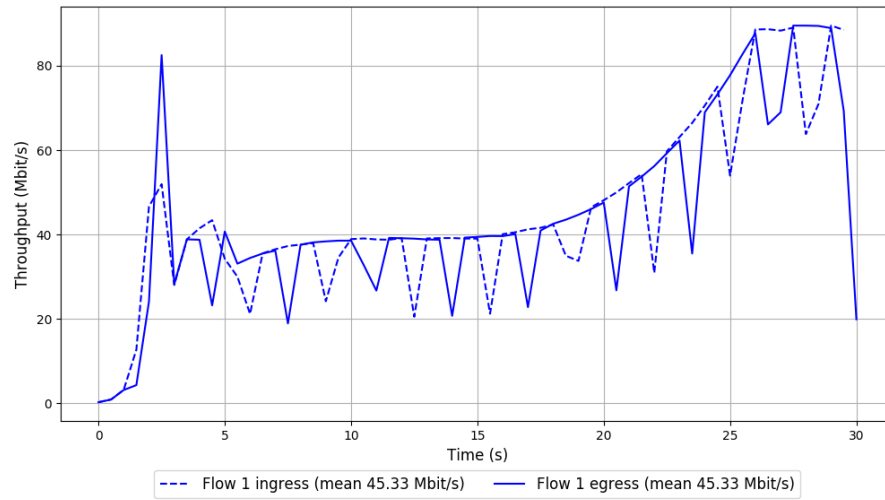
-- Flow 1:

Average throughput: 45.33 Mbit/s

95th percentile per-packet one-way delay: 139.809 ms

Loss rate: 0.01%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-16 09:34:29

End at: 2017-11-16 09:34:59

Below is generated by plot.py at 2017-11-16 10:34:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.37 Mbit/s

95th percentile per-packet one-way delay: 138.069 ms

Loss rate: 0.01%

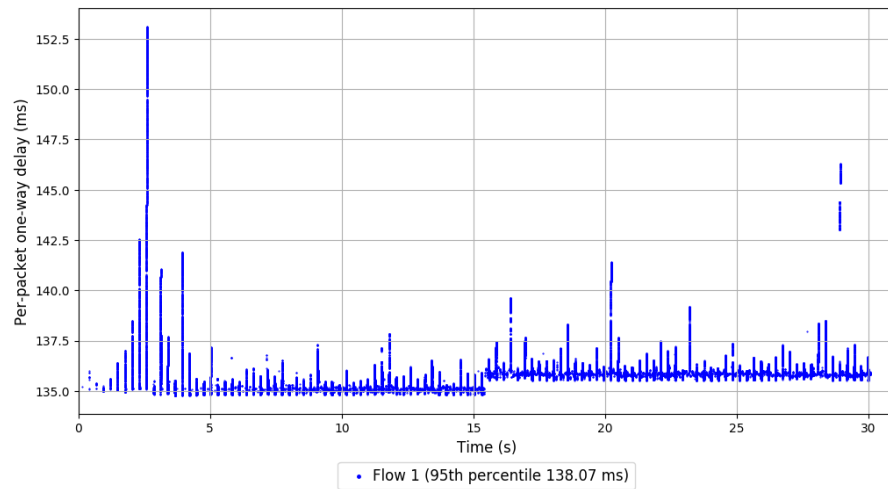
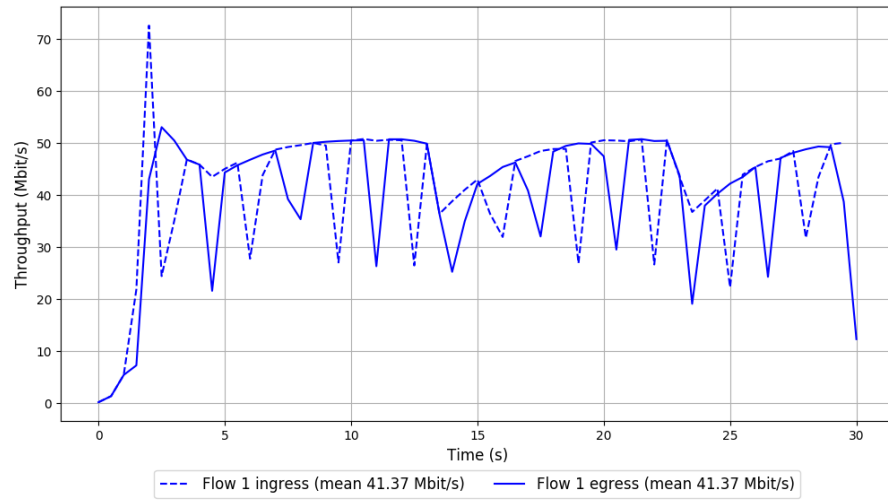
-- Flow 1:

Average throughput: 41.37 Mbit/s

95th percentile per-packet one-way delay: 138.069 ms

Loss rate: 0.01%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-16 09:46:02

End at: 2017-11-16 09:46:32

Below is generated by plot.py at 2017-11-16 10:34:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.71 Mbit/s

95th percentile per-packet one-way delay: 137.824 ms

Loss rate: 0.01%

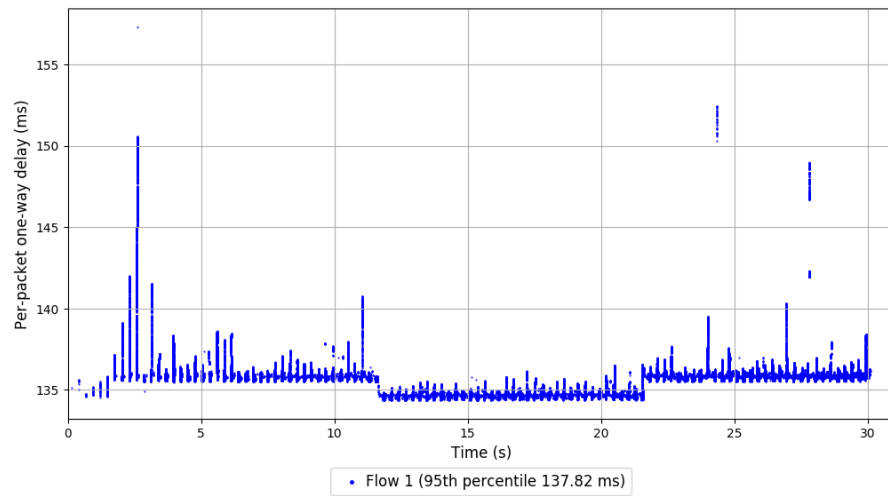
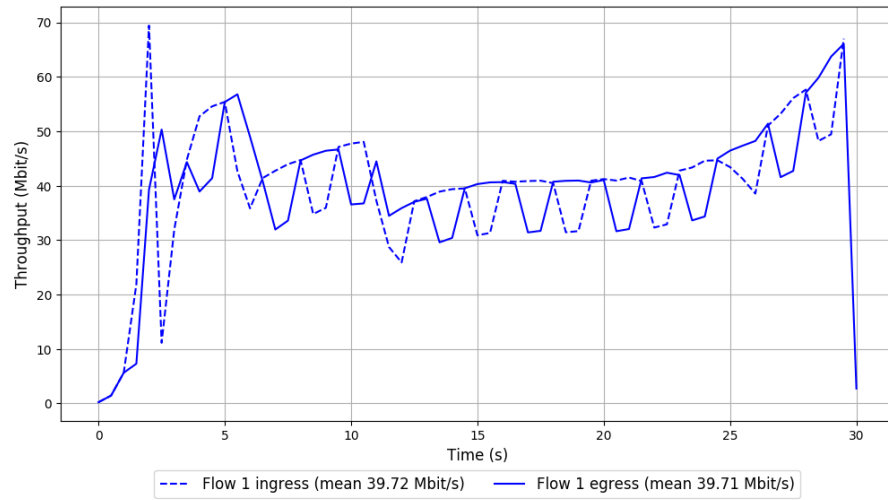
-- Flow 1:

Average throughput: 39.71 Mbit/s

95th percentile per-packet one-way delay: 137.824 ms

Loss rate: 0.01%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-16 09:57:27

End at: 2017-11-16 09:57:57

Below is generated by plot.py at 2017-11-16 10:34:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.56 Mbit/s

95th percentile per-packet one-way delay: 138.520 ms

Loss rate: 0.00%

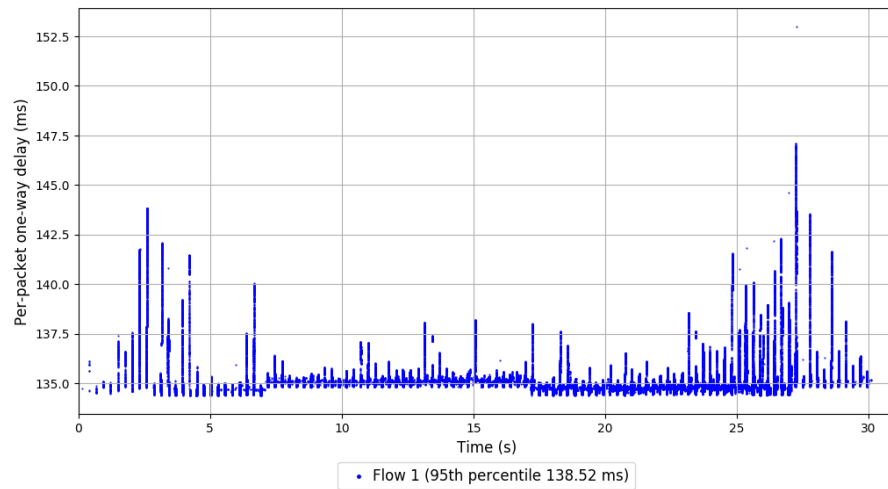
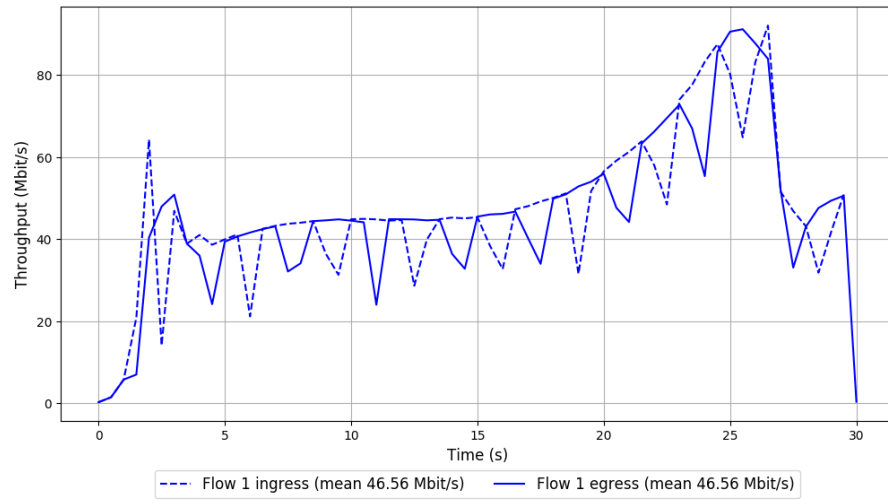
-- Flow 1:

Average throughput: 46.56 Mbit/s

95th percentile per-packet one-way delay: 138.520 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

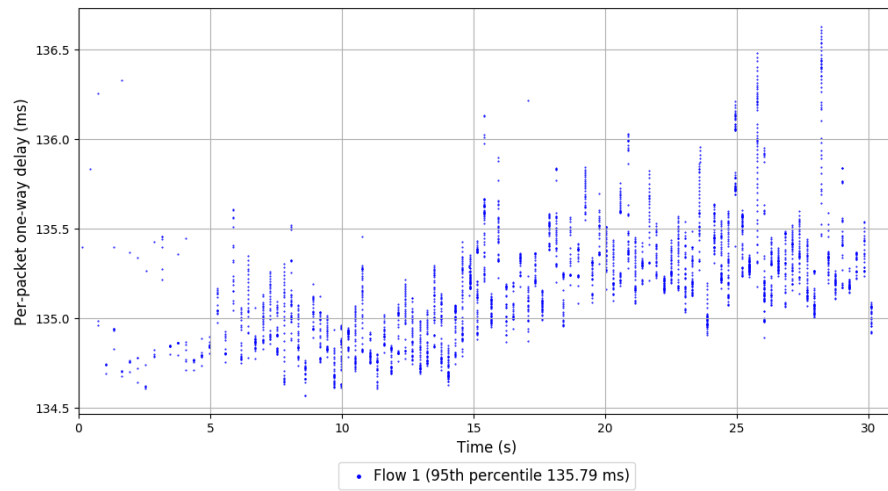
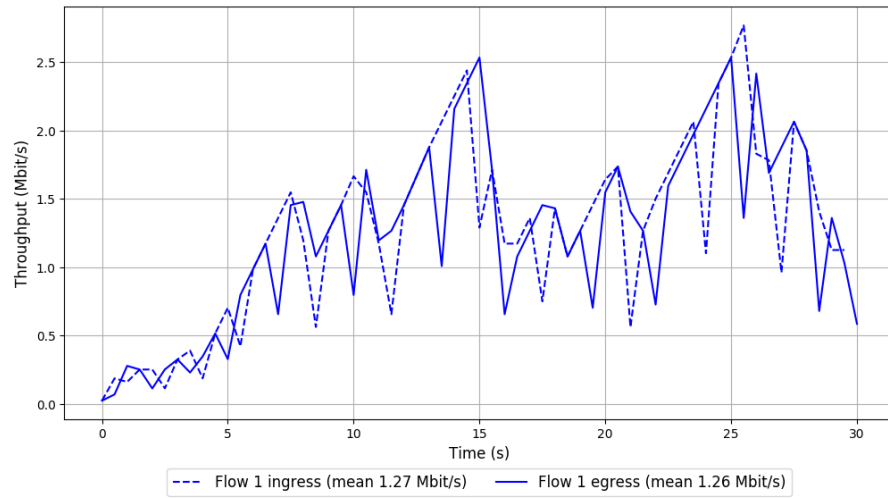


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-16 08:06:39
End at: 2017-11-16 08:07:09

# Below is generated by plot.py at 2017-11-16 10:34:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 135.788 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 135.788 ms
Loss rate: 0.09%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-11-16 08:18:14

End at: 2017-11-16 08:18:44

Below is generated by plot.py at 2017-11-16 10:34:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 136.435 ms

Loss rate: 0.00%

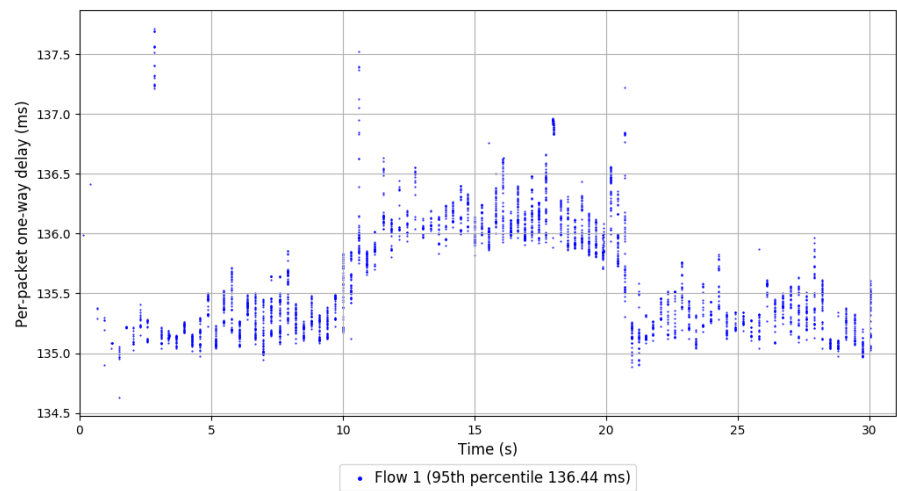
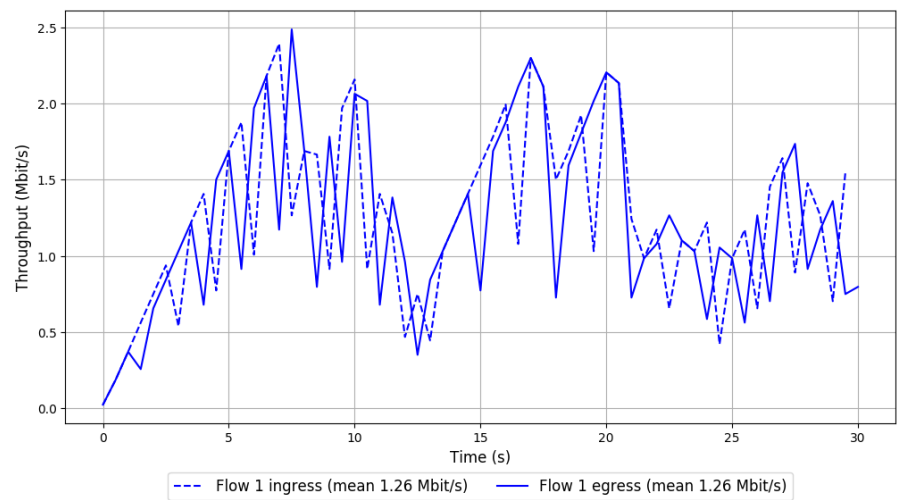
-- Flow 1:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 136.435 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-16 08:29:18

End at: 2017-11-16 08:29:49

Below is generated by plot.py at 2017-11-16 10:34:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 165.651 ms

Loss rate: 0.03%

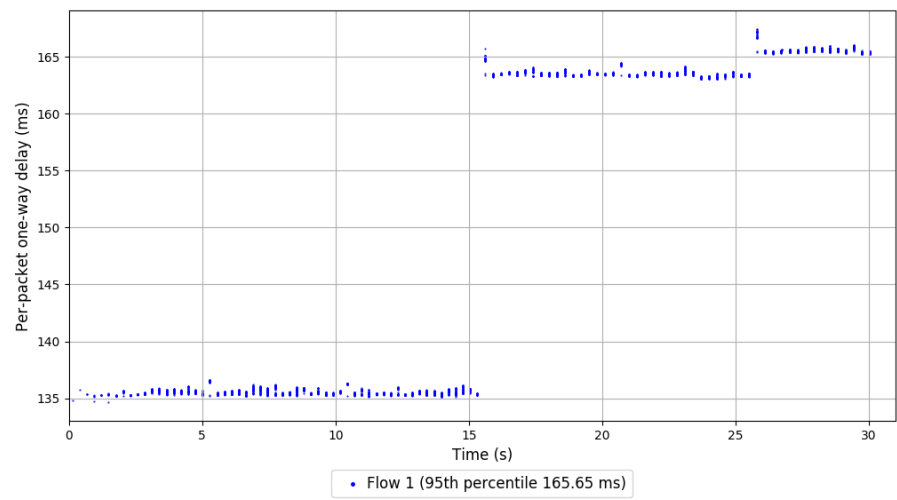
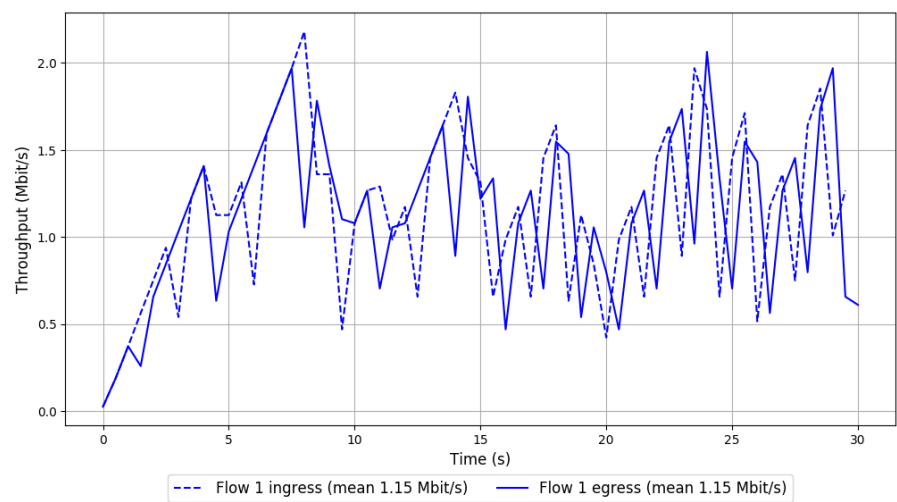
-- Flow 1:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 165.651 ms

Loss rate: 0.03%

Run 3: Report of LEDBAT — Data Link

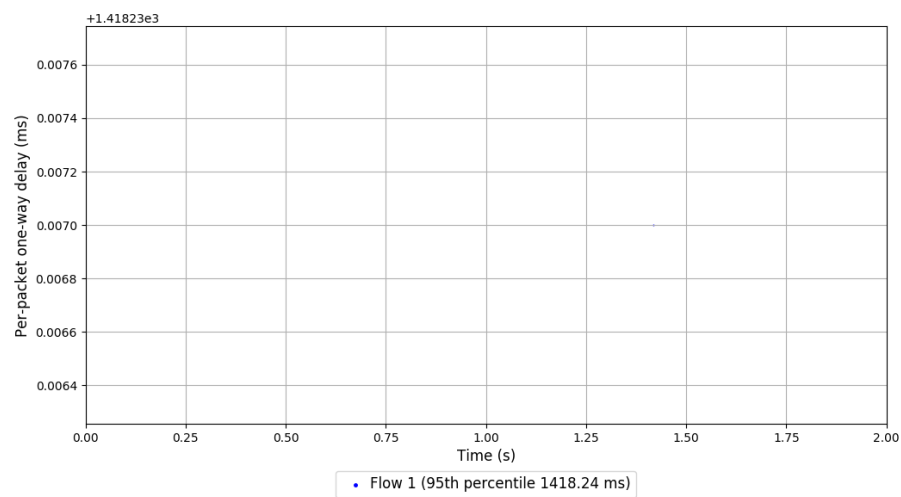
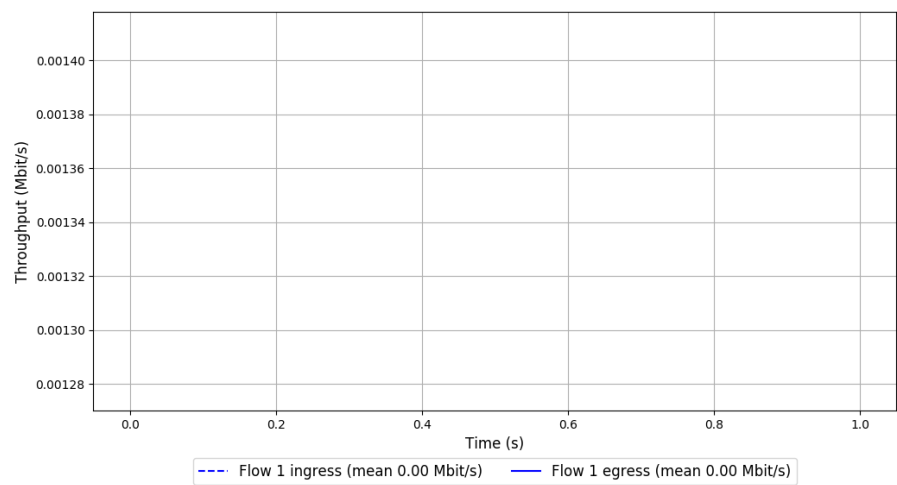


Run 4: Statistics of LEDBAT

Start at: 2017-11-16 08:40:17

End at: 2017-11-16 08:40:47

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-16 08:51:30

End at: 2017-11-16 08:52:00

Below is generated by plot.py at 2017-11-16 10:34:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 165.849 ms

Loss rate: 0.00%

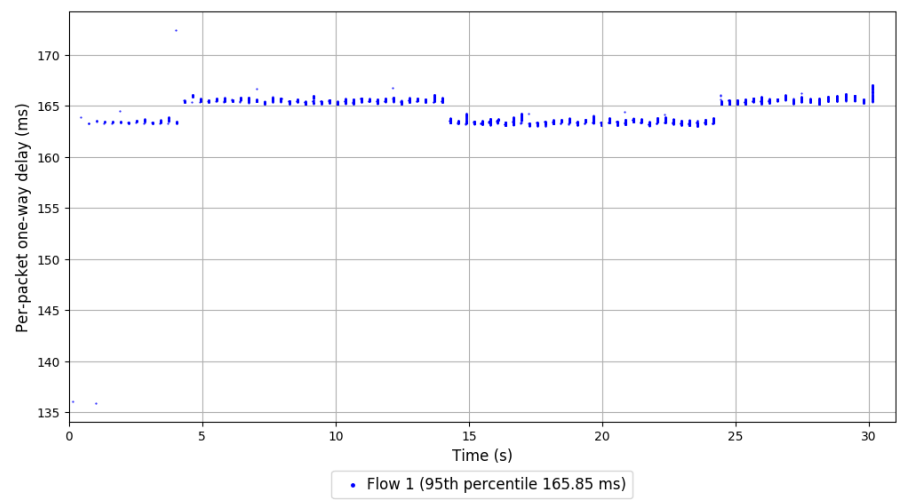
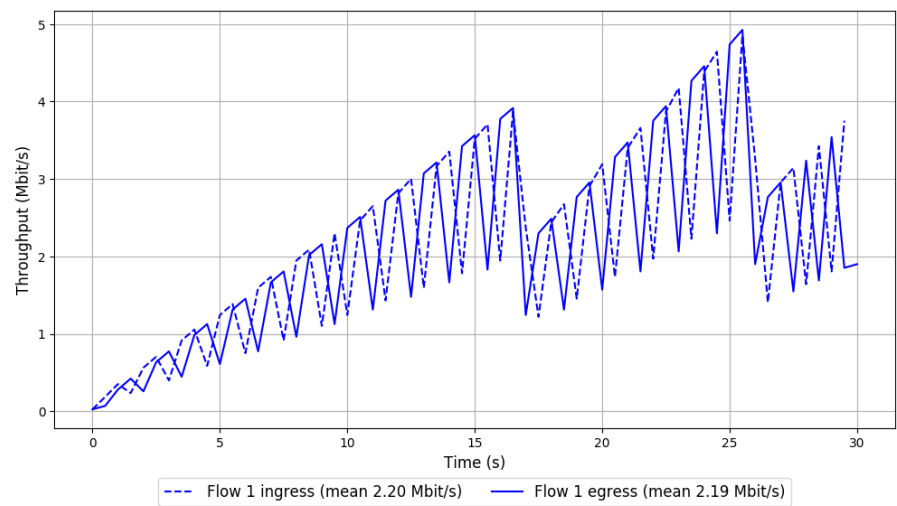
-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 165.849 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-16 09:02:43

End at: 2017-11-16 09:03:13

Below is generated by plot.py at 2017-11-16 10:34:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 135.686 ms

Loss rate: 0.40%

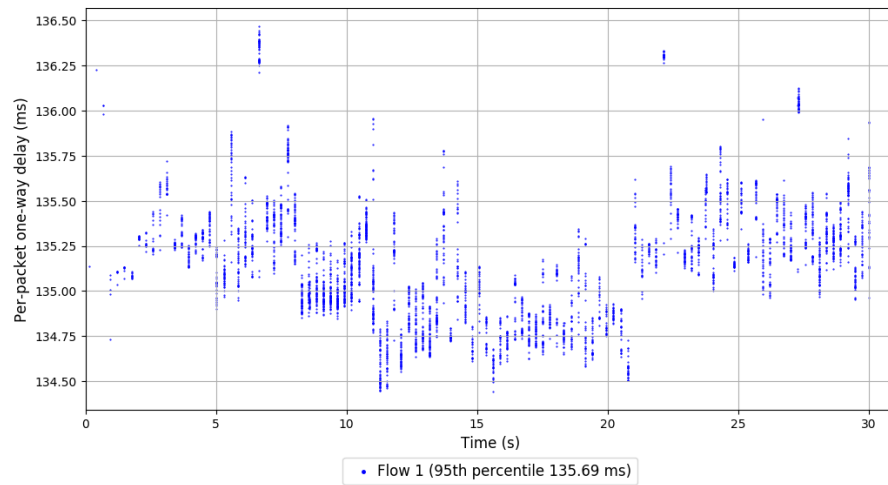
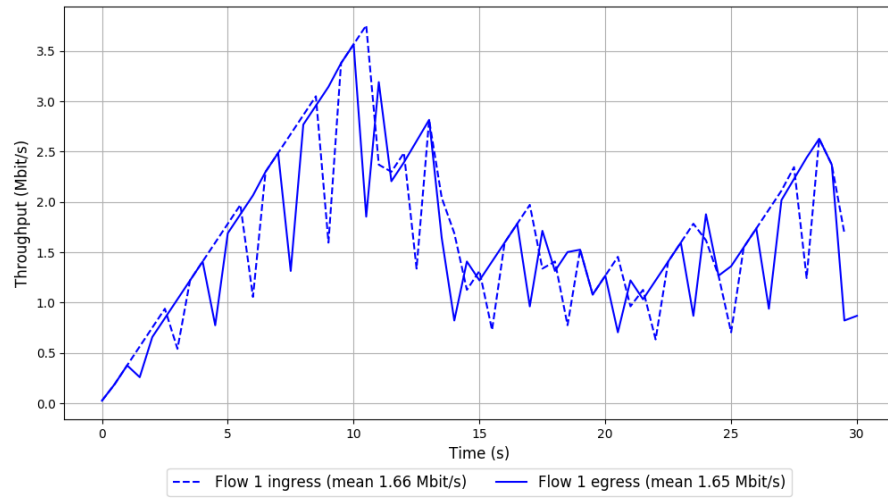
-- Flow 1:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 135.686 ms

Loss rate: 0.40%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-16 09:14:08

End at: 2017-11-16 09:14:38

Below is generated by plot.py at 2017-11-16 10:34:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 135.983 ms

Loss rate: 0.40%

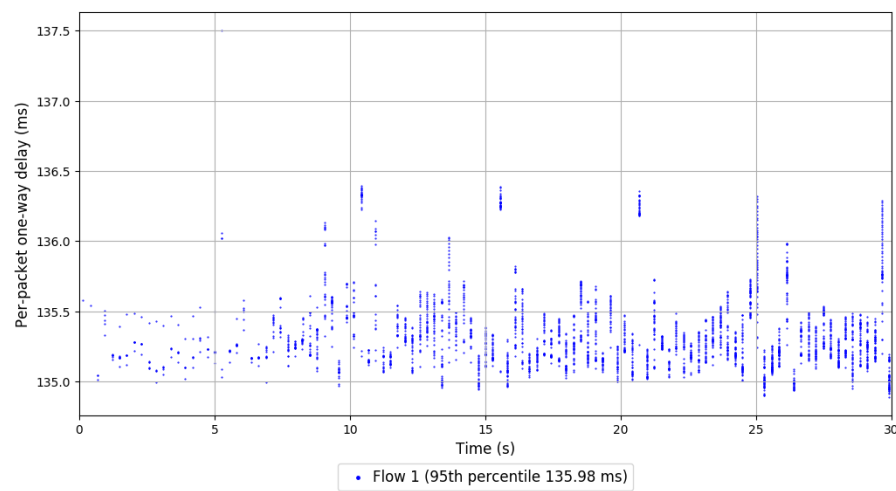
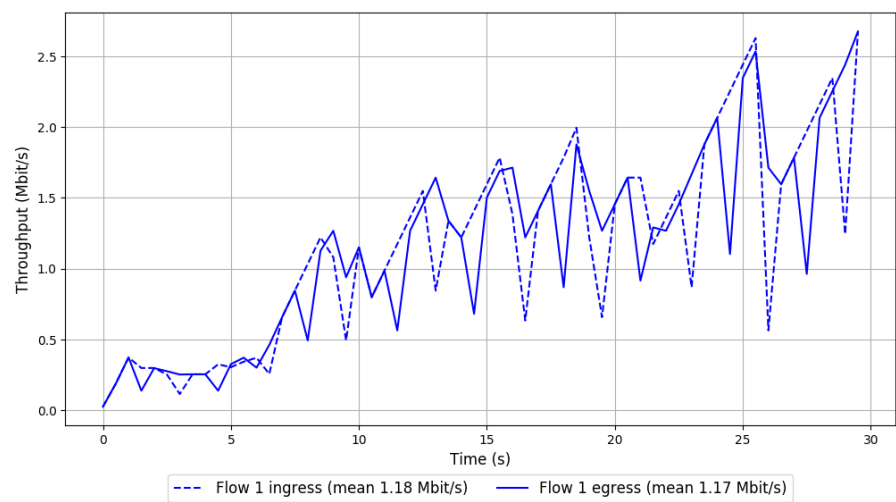
-- Flow 1:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 135.983 ms

Loss rate: 0.40%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-16 09:25:35

End at: 2017-11-16 09:26:05

Below is generated by plot.py at 2017-11-16 10:34:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 136.397 ms

Loss rate: 0.14%

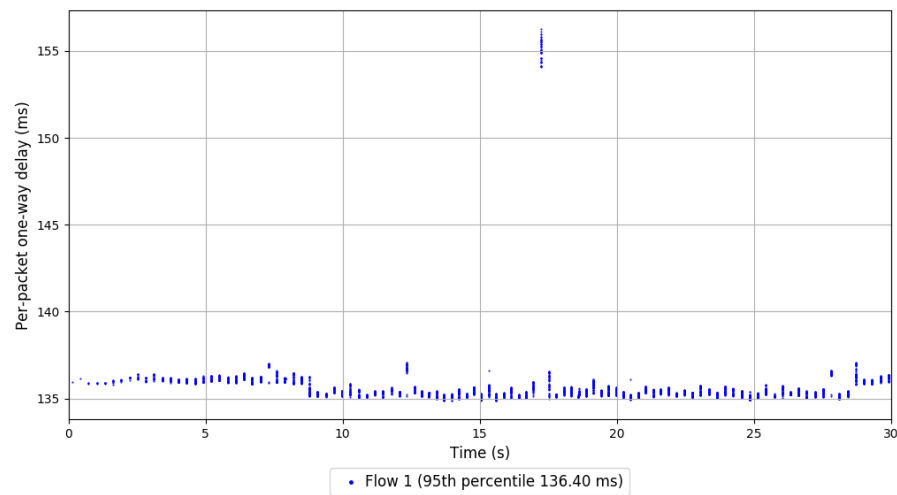
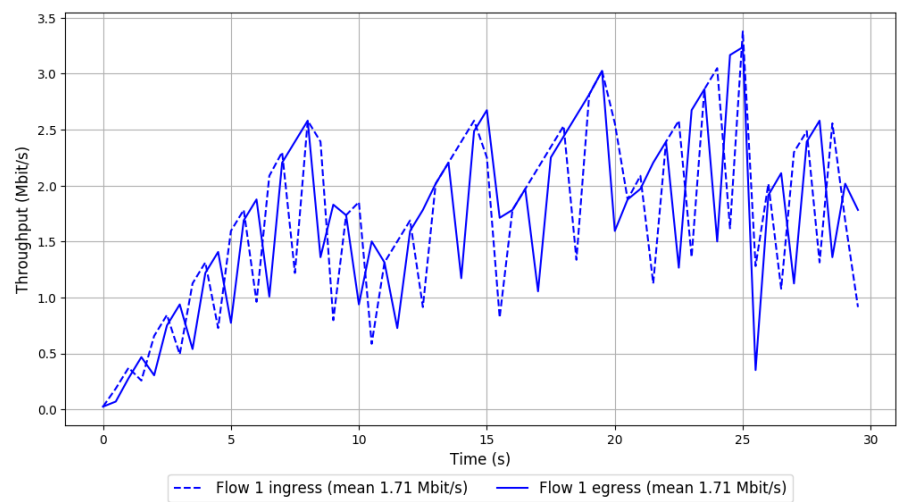
-- Flow 1:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 136.397 ms

Loss rate: 0.14%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-16 09:36:50

End at: 2017-11-16 09:37:20

Below is generated by plot.py at 2017-11-16 10:34:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 135.766 ms

Loss rate: 0.12%

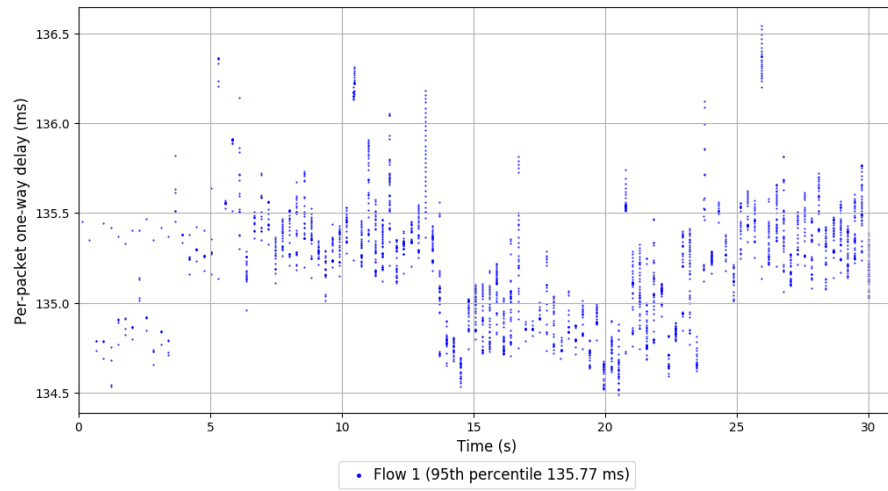
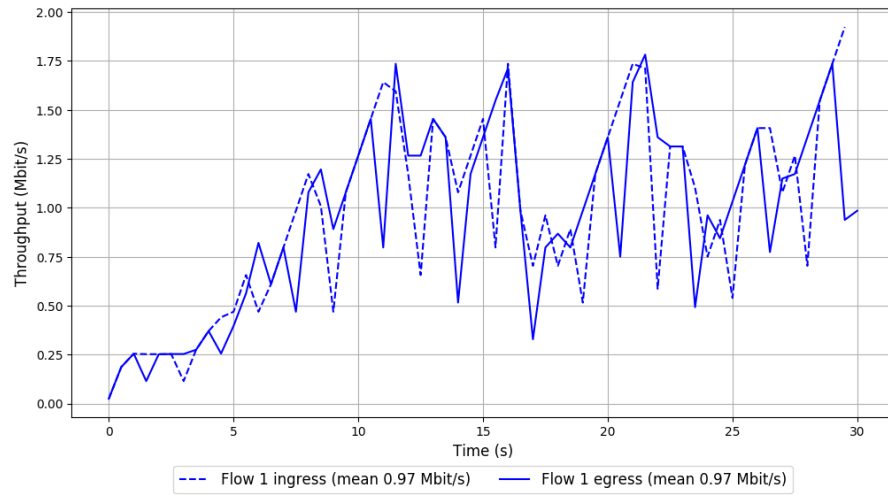
-- Flow 1:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 135.766 ms

Loss rate: 0.12%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-16 09:48:16

End at: 2017-11-16 09:48:46

Below is generated by plot.py at 2017-11-16 10:34:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 136.509 ms

Loss rate: 0.62%

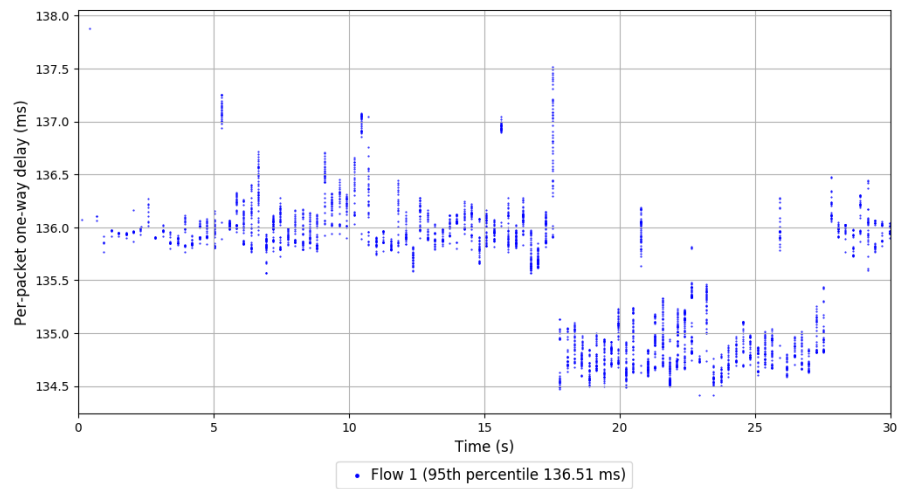
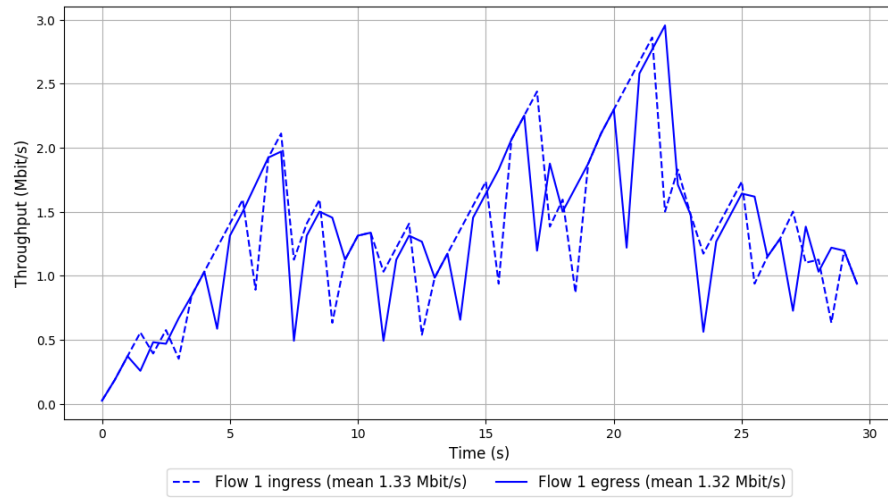
-- Flow 1:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 136.509 ms

Loss rate: 0.62%

Run 10: Report of LEDBAT — Data Link

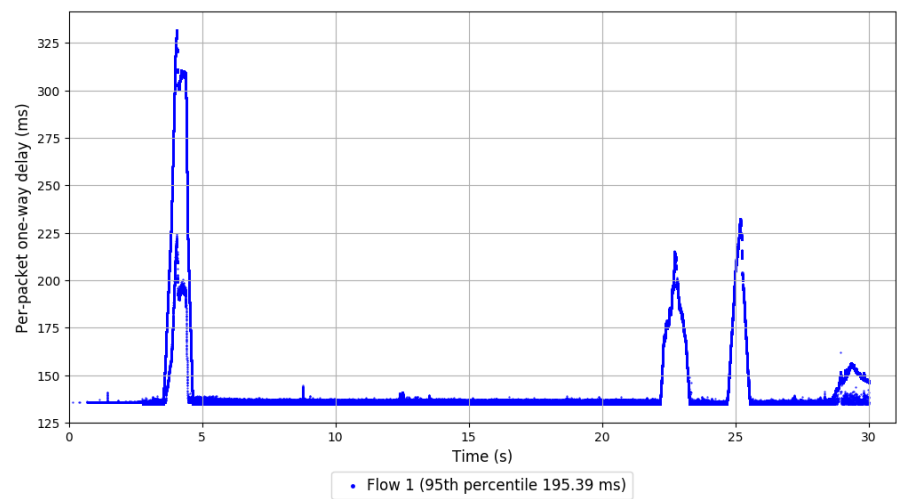
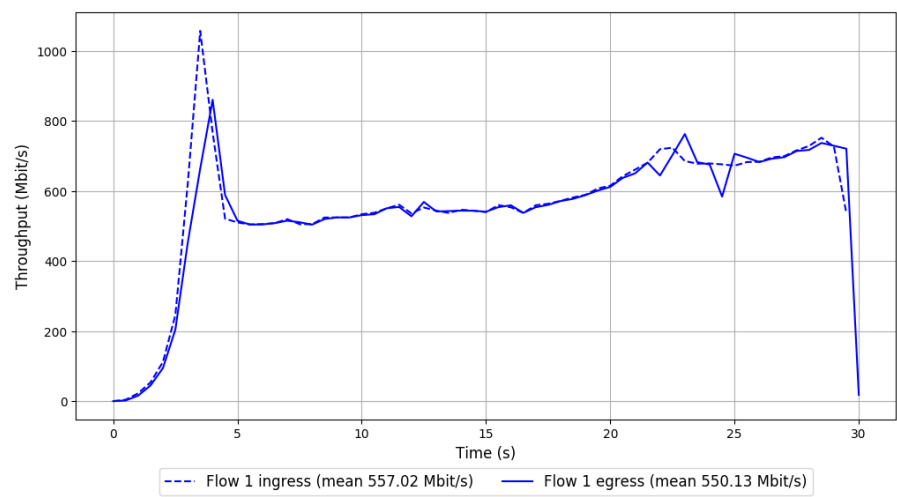


```
Run 1: Statistics of PCC

Start at: 2017-11-16 08:07:21
End at: 2017-11-16 08:07:51

# Below is generated by plot.py at 2017-11-16 10:43:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 550.13 Mbit/s
95th percentile per-packet one-way delay: 195.386 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 550.13 Mbit/s
95th percentile per-packet one-way delay: 195.386 ms
Loss rate: 1.25%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-11-16 08:18:56

End at: 2017-11-16 08:19:26

Below is generated by plot.py at 2017-11-16 10:43:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 542.07 Mbit/s

95th percentile per-packet one-way delay: 157.027 ms

Loss rate: 1.21%

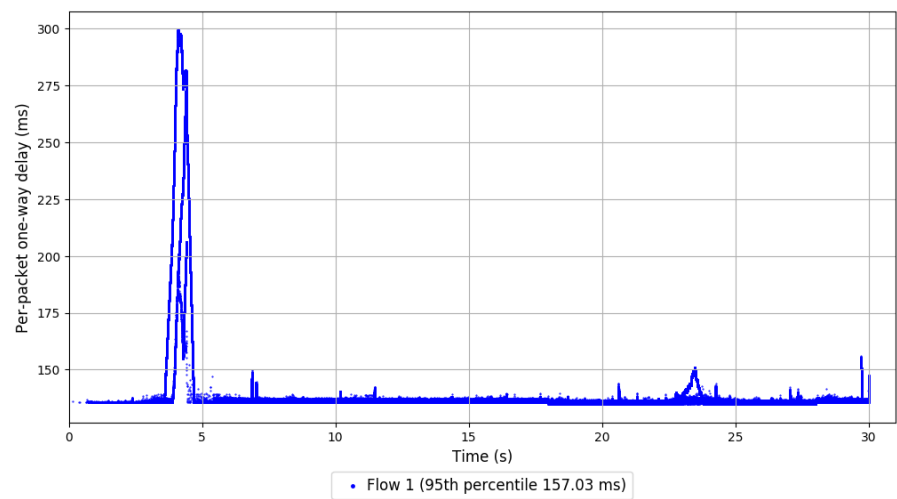
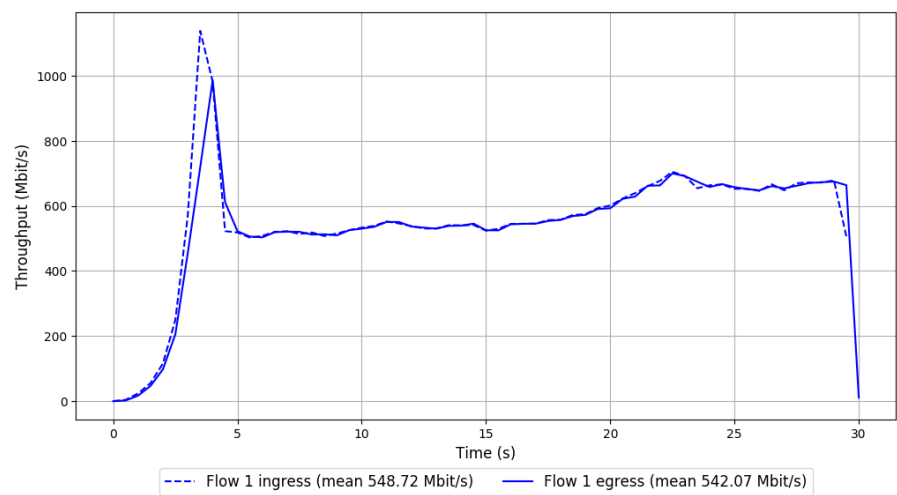
-- Flow 1:

Average throughput: 542.07 Mbit/s

95th percentile per-packet one-way delay: 157.027 ms

Loss rate: 1.21%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-16 08:30:01

End at: 2017-11-16 08:30:31

Below is generated by plot.py at 2017-11-16 10:43:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.19 Mbit/s

95th percentile per-packet one-way delay: 163.181 ms

Loss rate: 0.00%

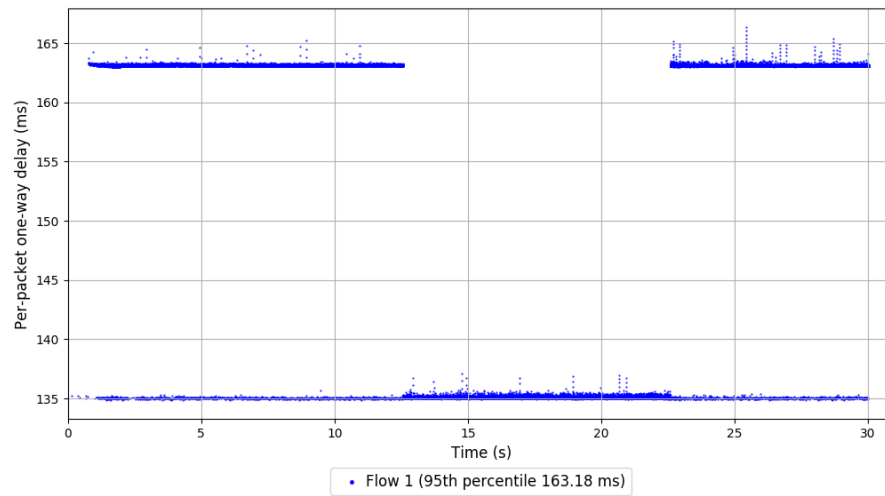
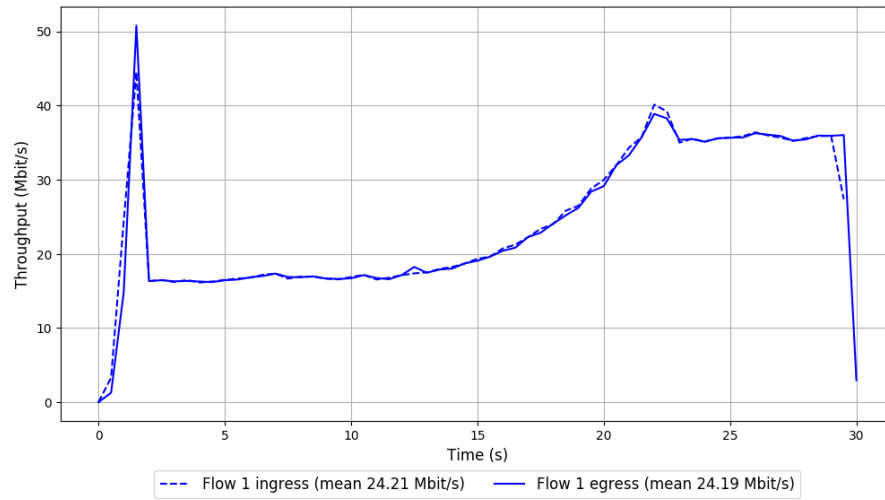
-- Flow 1:

Average throughput: 24.19 Mbit/s

95th percentile per-packet one-way delay: 163.181 ms

Loss rate: 0.00%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-16 08:40:59

End at: 2017-11-16 08:41:29

Below is generated by plot.py at 2017-11-16 10:43:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 519.26 Mbit/s

95th percentile per-packet one-way delay: 179.525 ms

Loss rate: 1.62%

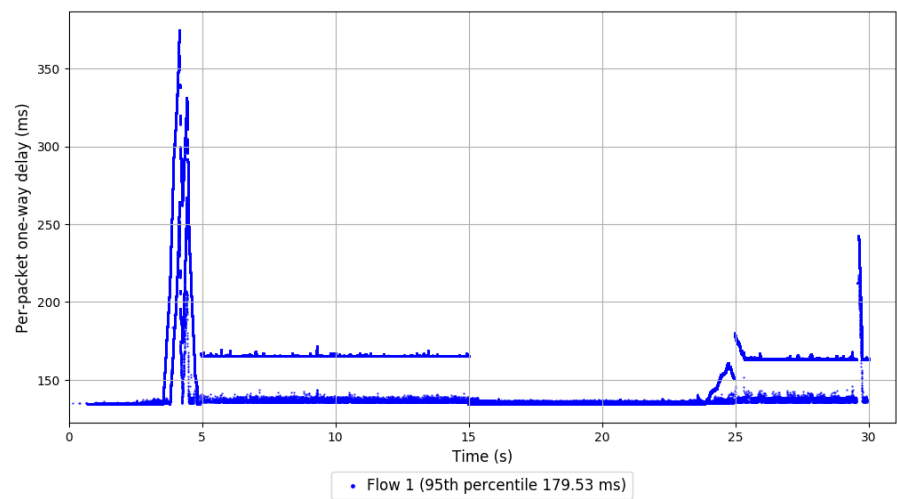
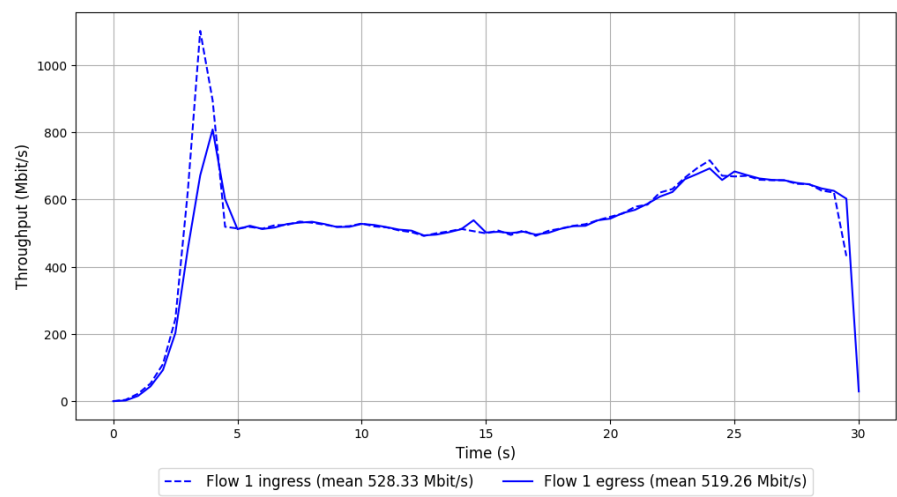
-- Flow 1:

Average throughput: 519.26 Mbit/s

95th percentile per-packet one-way delay: 179.525 ms

Loss rate: 1.62%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-16 08:52:14

End at: 2017-11-16 08:52:44

Below is generated by plot.py at 2017-11-16 10:43:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.37 Mbit/s

95th percentile per-packet one-way delay: 163.154 ms

Loss rate: 0.00%

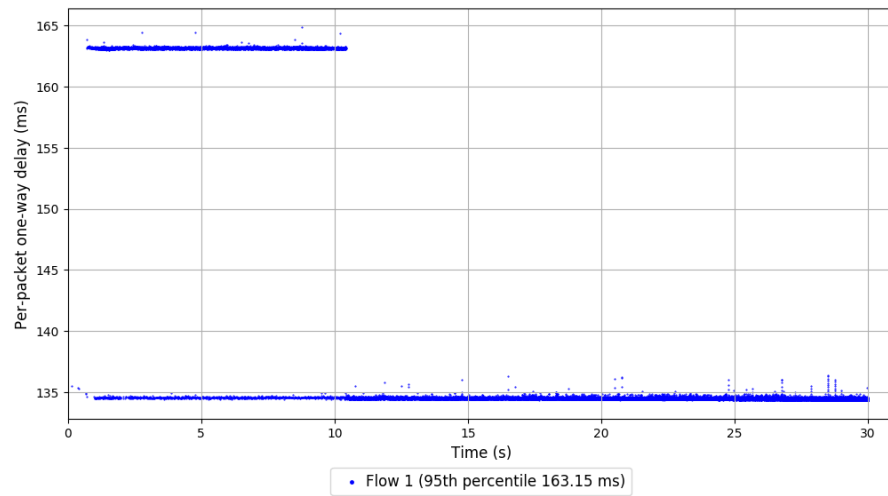
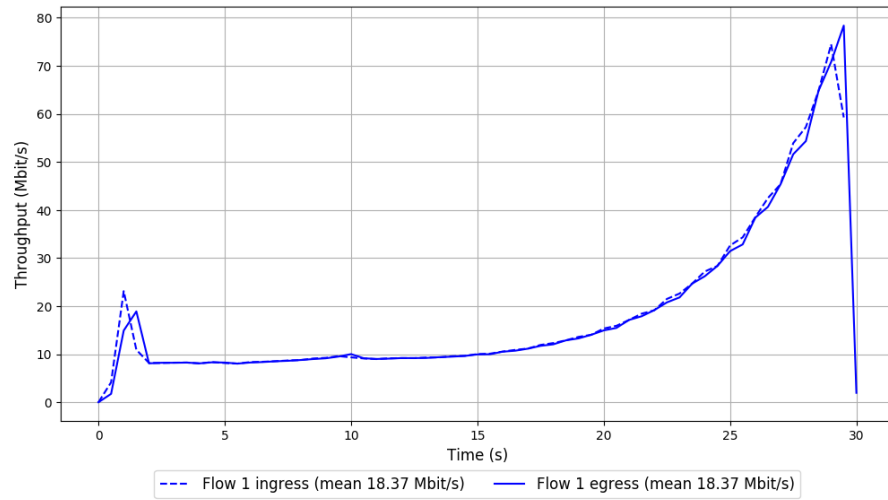
-- Flow 1:

Average throughput: 18.37 Mbit/s

95th percentile per-packet one-way delay: 163.154 ms

Loss rate: 0.00%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-16 09:03:26

End at: 2017-11-16 09:03:56

Below is generated by plot.py at 2017-11-16 10:44:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 551.69 Mbit/s

95th percentile per-packet one-way delay: 210.369 ms

Loss rate: 1.57%

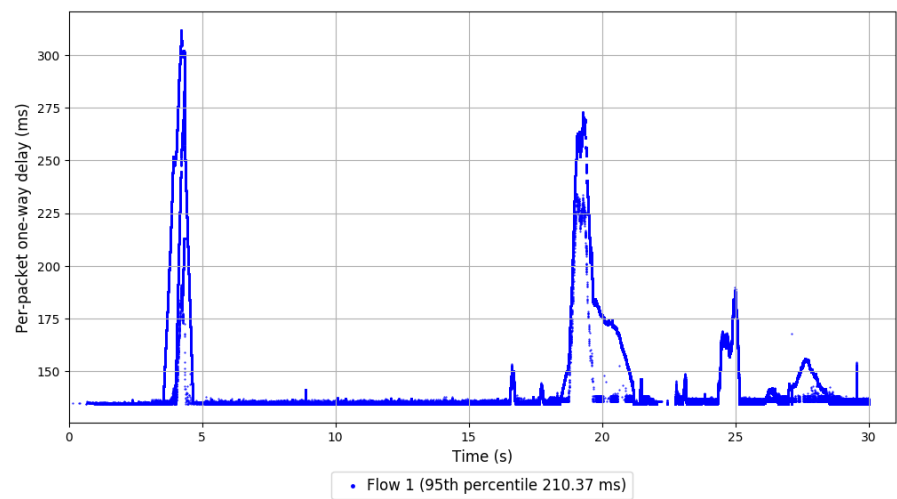
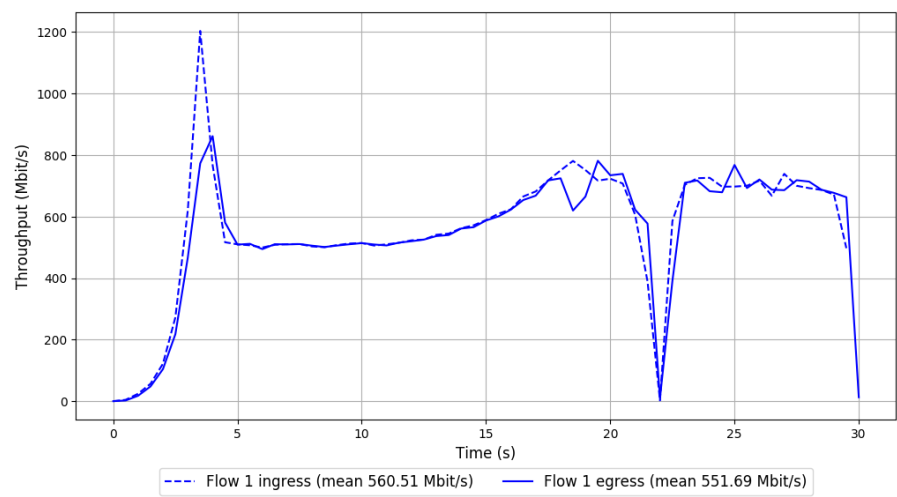
-- Flow 1:

Average throughput: 551.69 Mbit/s

95th percentile per-packet one-way delay: 210.369 ms

Loss rate: 1.57%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-16 09:14:50

End at: 2017-11-16 09:15:20

Below is generated by plot.py at 2017-11-16 10:44:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 410.09 Mbit/s

95th percentile per-packet one-way delay: 216.218 ms

Loss rate: 2.81%

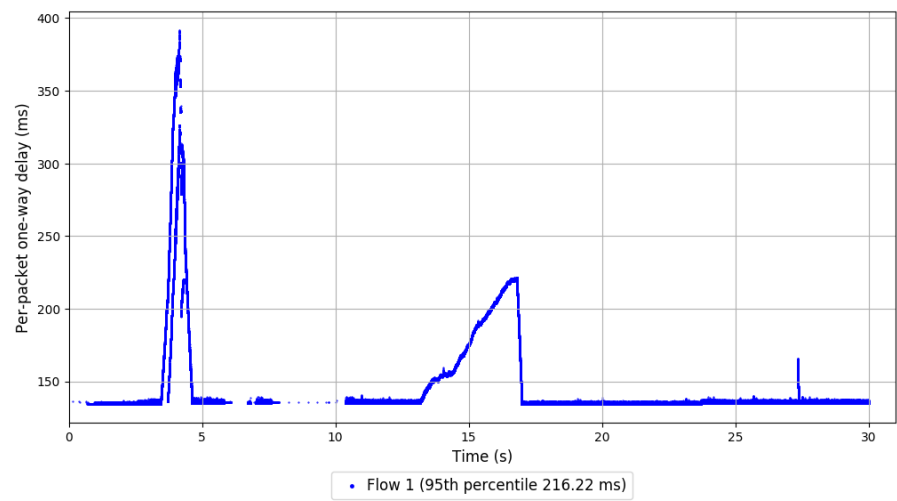
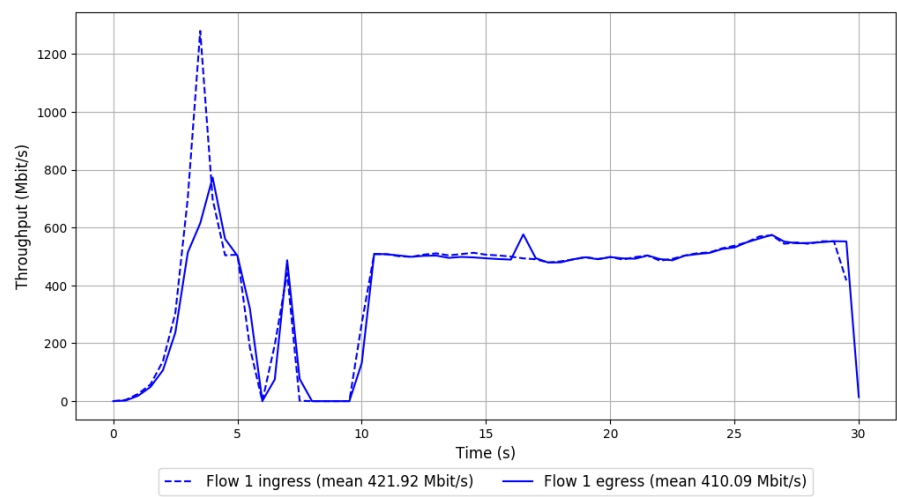
-- Flow 1:

Average throughput: 410.09 Mbit/s

95th percentile per-packet one-way delay: 216.218 ms

Loss rate: 2.81%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-16 09:26:18

End at: 2017-11-16 09:26:48

Below is generated by plot.py at 2017-11-16 10:45:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 597.22 Mbit/s

95th percentile per-packet one-way delay: 218.087 ms

Loss rate: 1.62%

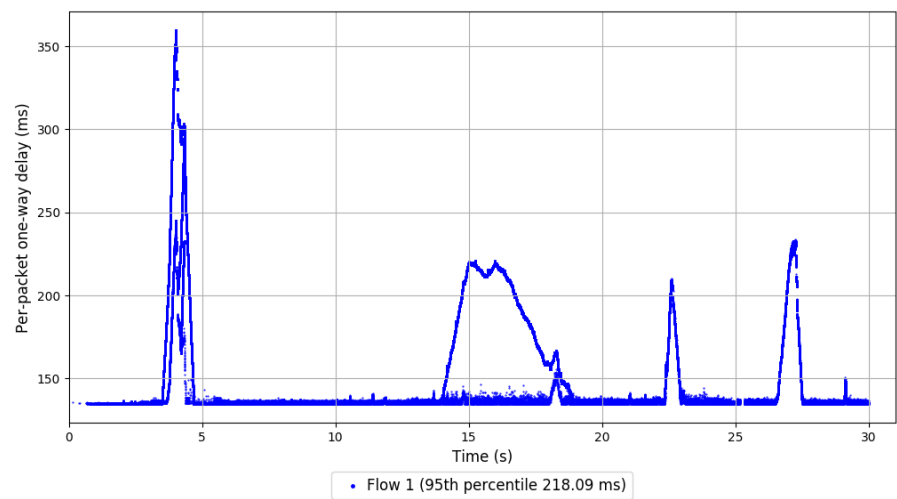
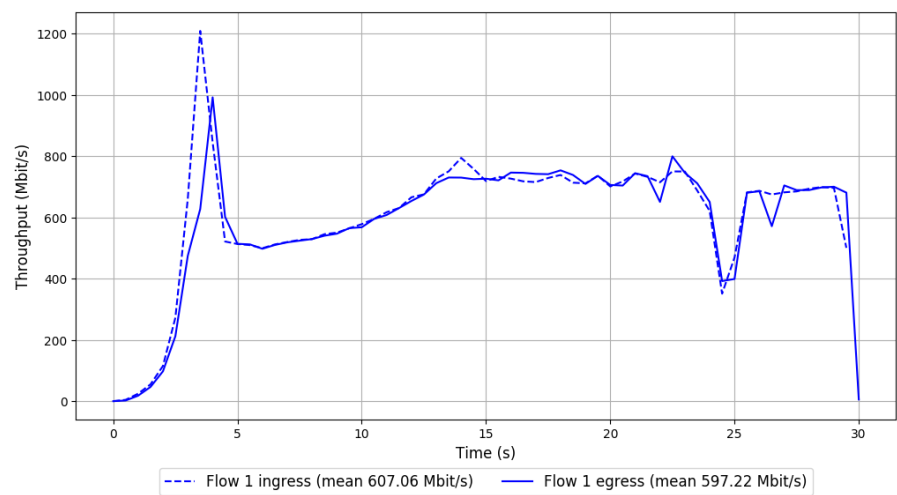
-- Flow 1:

Average throughput: 597.22 Mbit/s

95th percentile per-packet one-way delay: 218.087 ms

Loss rate: 1.62%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-11-16 09:37:33

End at: 2017-11-16 09:38:03

Below is generated by plot.py at 2017-11-16 10:45:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 577.03 Mbit/s

95th percentile per-packet one-way delay: 266.020 ms

Loss rate: 0.73%

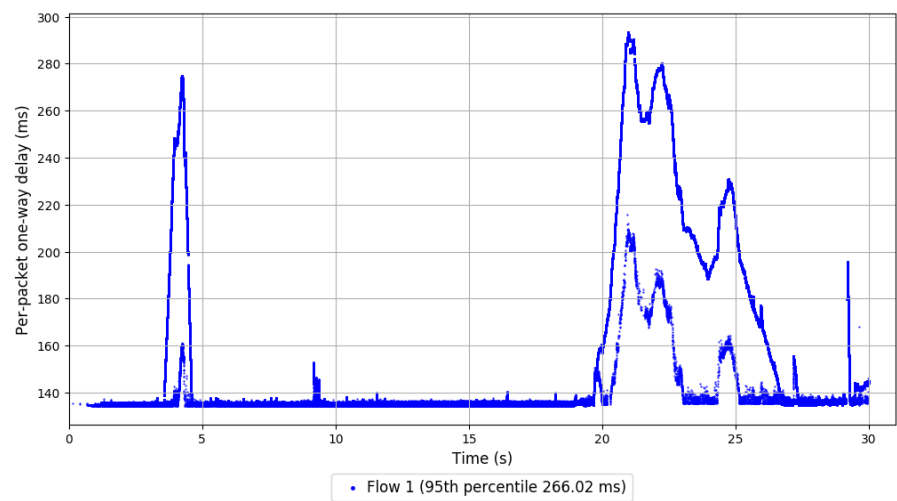
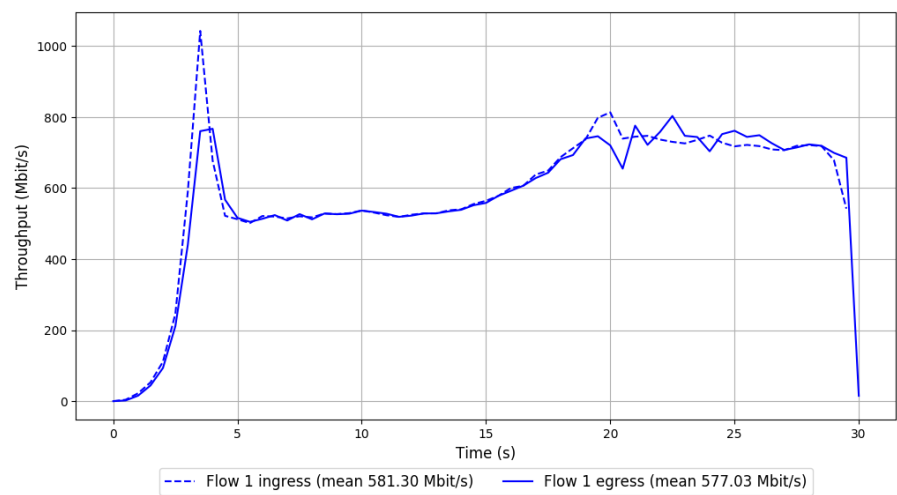
-- Flow 1:

Average throughput: 577.03 Mbit/s

95th percentile per-packet one-way delay: 266.020 ms

Loss rate: 0.73%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-11-16 09:48:59

End at: 2017-11-16 09:49:29

Below is generated by plot.py at 2017-11-16 10:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 614.30 Mbit/s

95th percentile per-packet one-way delay: 252.572 ms

Loss rate: 1.88%

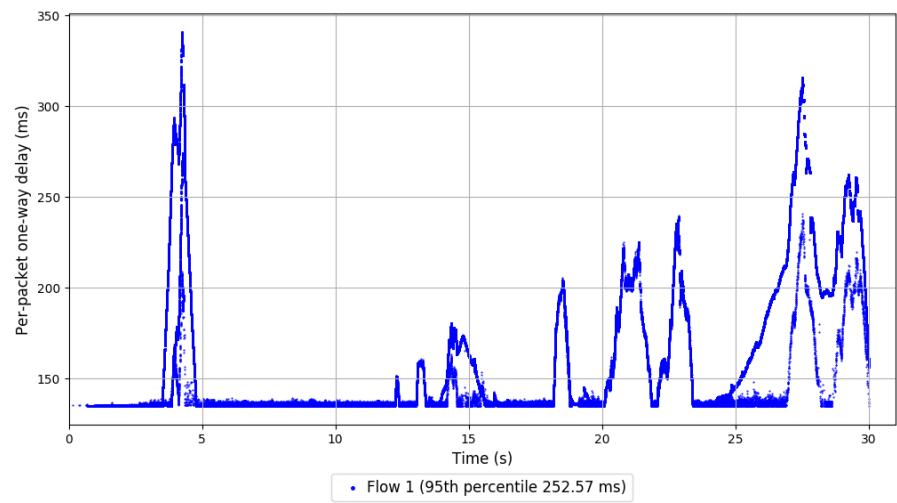
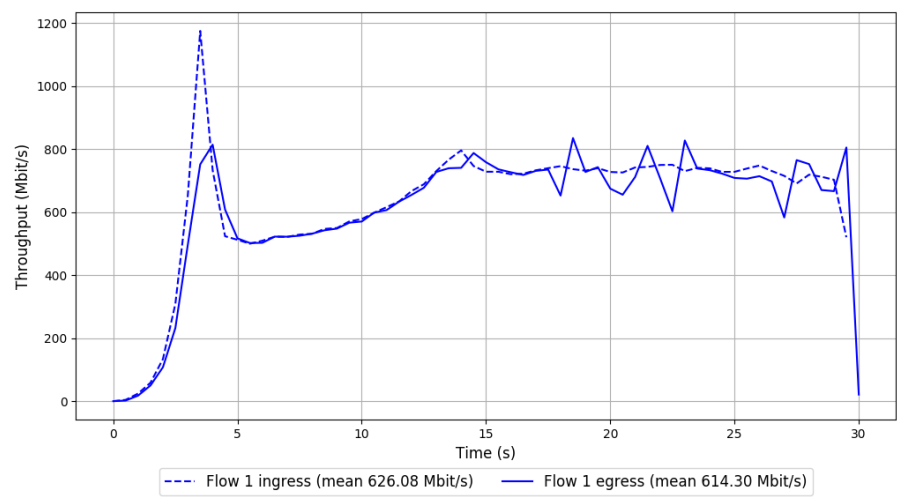
-- Flow 1:

Average throughput: 614.30 Mbit/s

95th percentile per-packet one-way delay: 252.572 ms

Loss rate: 1.88%

Run 10: Report of PCC — Data Link

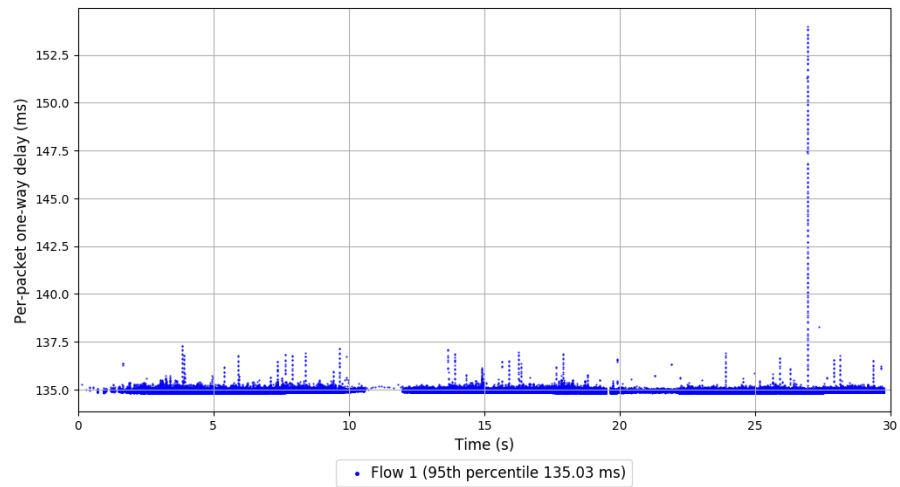
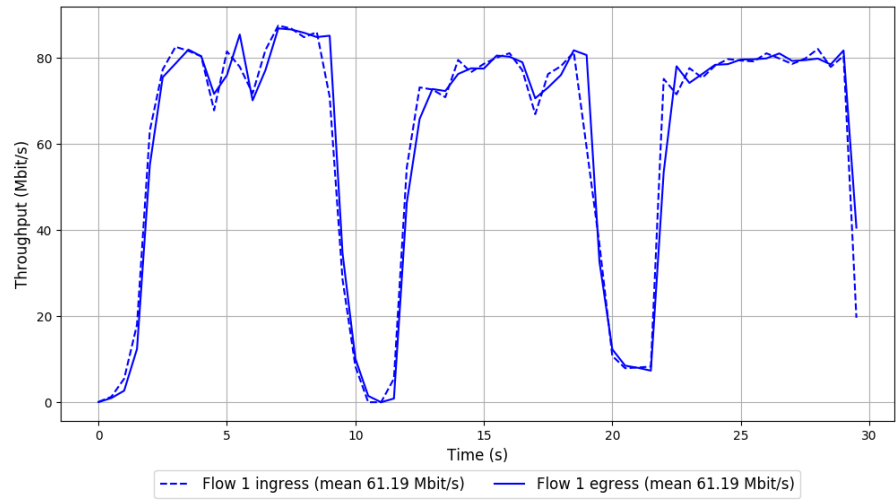


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-16 08:17:26
End at: 2017-11-16 08:17:56

# Below is generated by plot.py at 2017-11-16 10:46:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.19 Mbit/s
95th percentile per-packet one-way delay: 135.031 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.19 Mbit/s
95th percentile per-packet one-way delay: 135.031 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-11-16 08:28:30

End at: 2017-11-16 08:29:00

Below is generated by plot.py at 2017-11-16 10:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.62 Mbit/s

95th percentile per-packet one-way delay: 135.280 ms

Loss rate: 0.00%

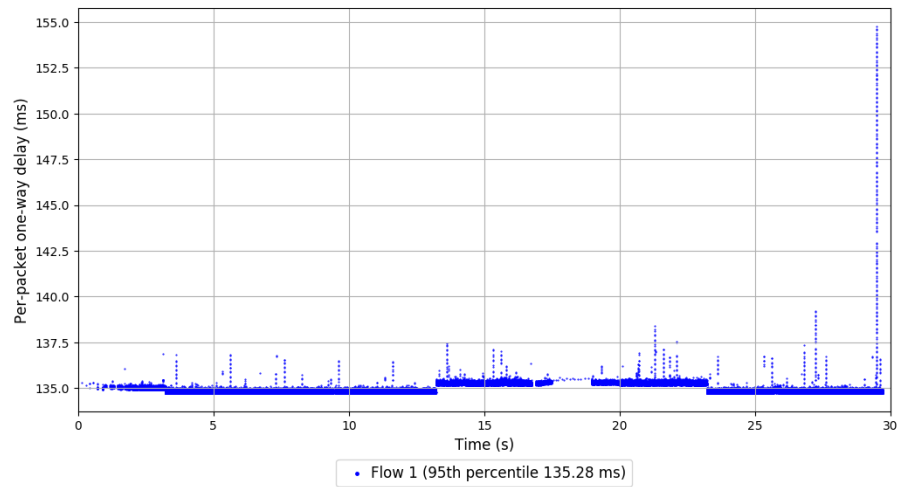
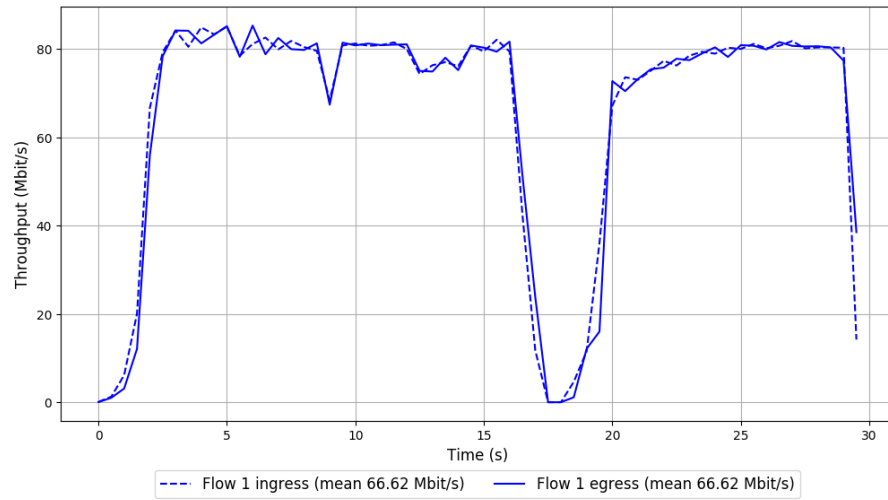
-- Flow 1:

Average throughput: 66.62 Mbit/s

95th percentile per-packet one-way delay: 135.280 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-16 08:39:29

End at: 2017-11-16 08:39:59

Below is generated by plot.py at 2017-11-16 10:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.10 Mbit/s

95th percentile per-packet one-way delay: 165.183 ms

Loss rate: 0.00%

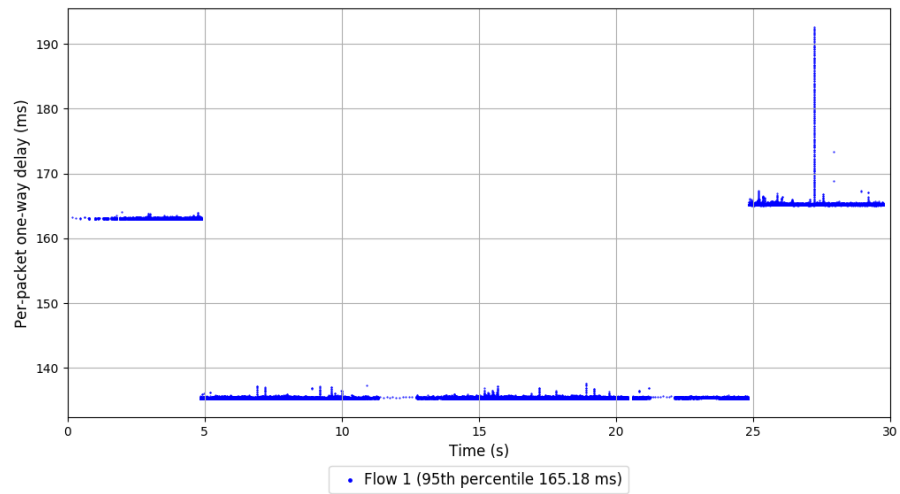
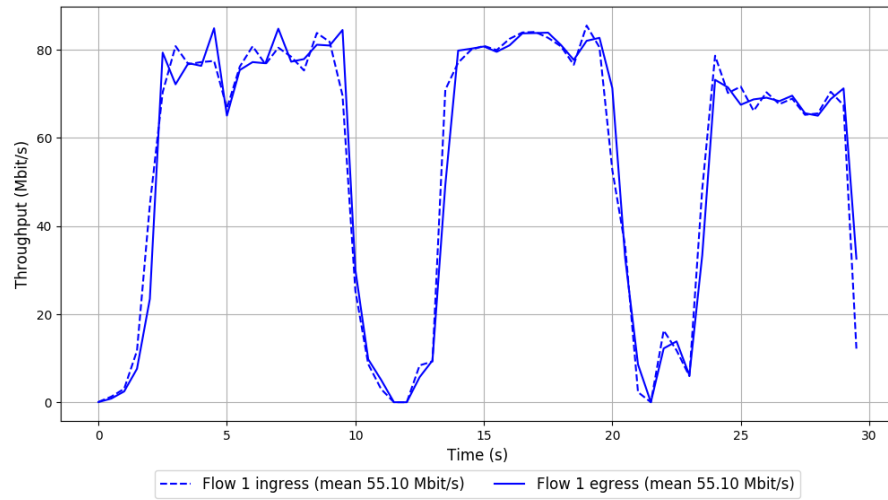
-- Flow 1:

Average throughput: 55.10 Mbit/s

95th percentile per-packet one-way delay: 165.183 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-16 08:50:40

End at: 2017-11-16 08:51:10

Below is generated by plot.py at 2017-11-16 10:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.84 Mbit/s

95th percentile per-packet one-way delay: 165.126 ms

Loss rate: 0.00%

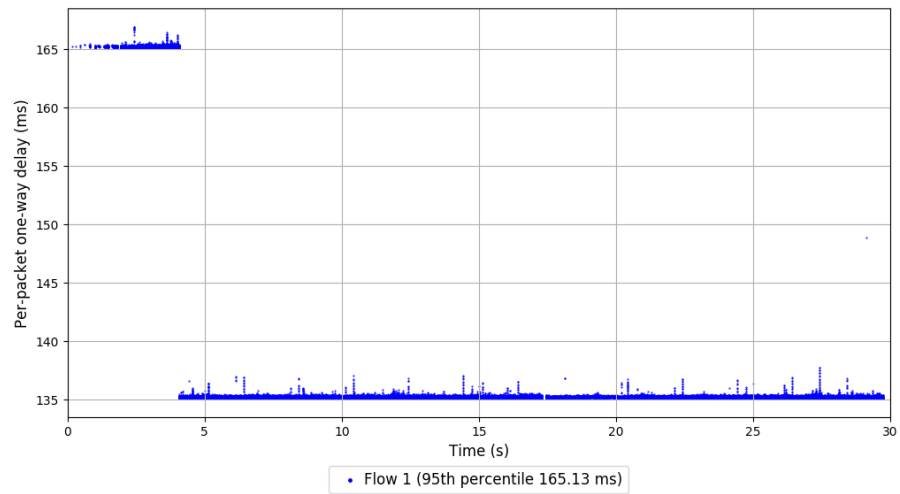
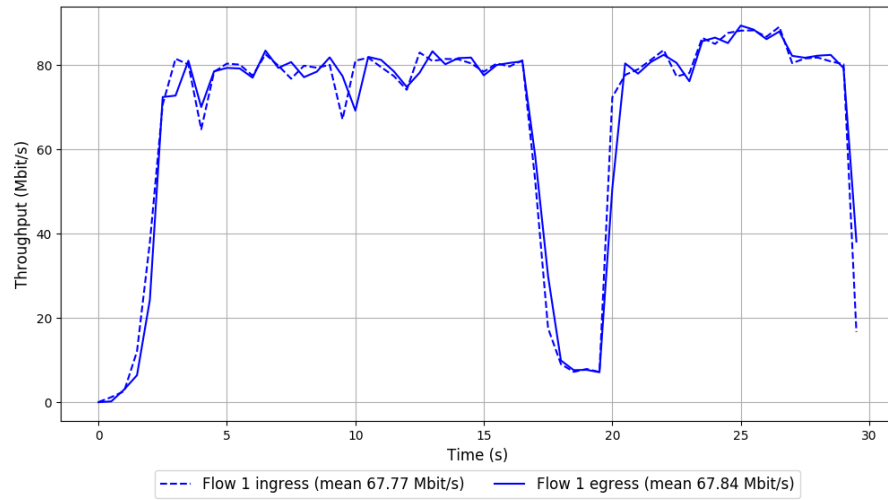
-- Flow 1:

Average throughput: 67.84 Mbit/s

95th percentile per-packet one-way delay: 165.126 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-16 09:01:55

End at: 2017-11-16 09:02:25

Below is generated by plot.py at 2017-11-16 10:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.09 Mbit/s

95th percentile per-packet one-way delay: 134.981 ms

Loss rate: 0.00%

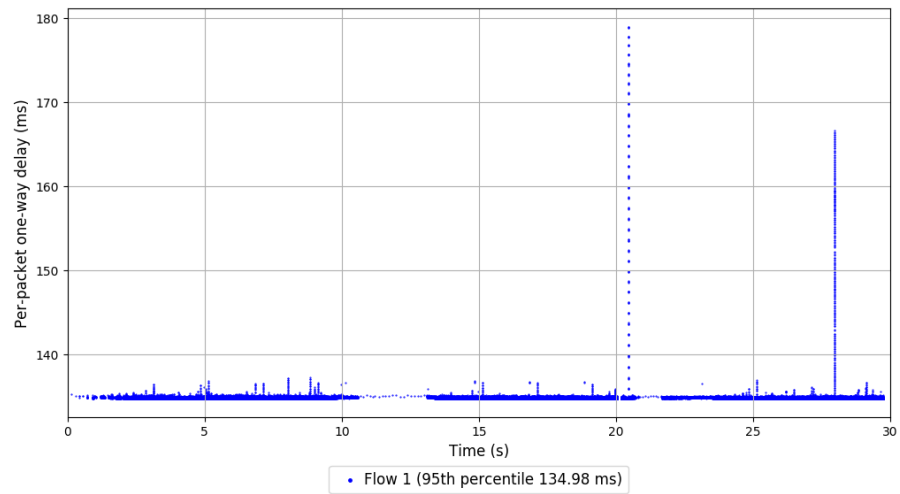
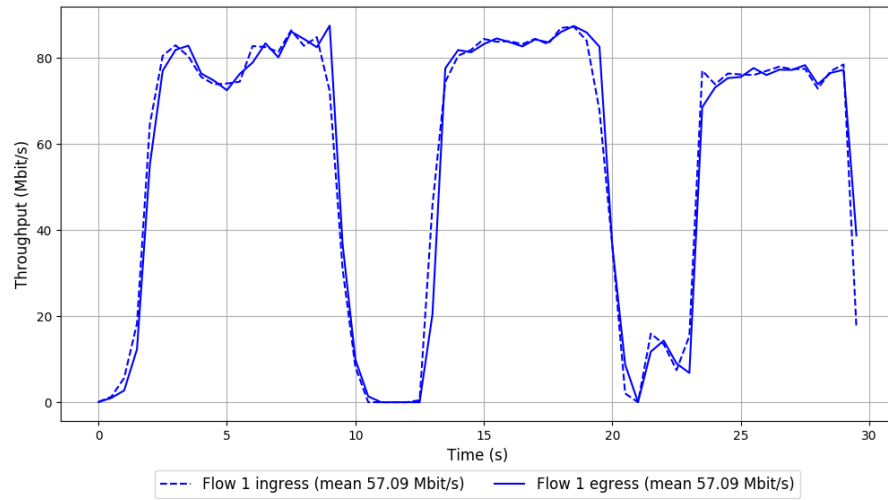
-- Flow 1:

Average throughput: 57.09 Mbit/s

95th percentile per-packet one-way delay: 134.981 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-16 09:13:21

End at: 2017-11-16 09:13:51

Below is generated by plot.py at 2017-11-16 10:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.05 Mbit/s

95th percentile per-packet one-way delay: 135.308 ms

Loss rate: 0.00%

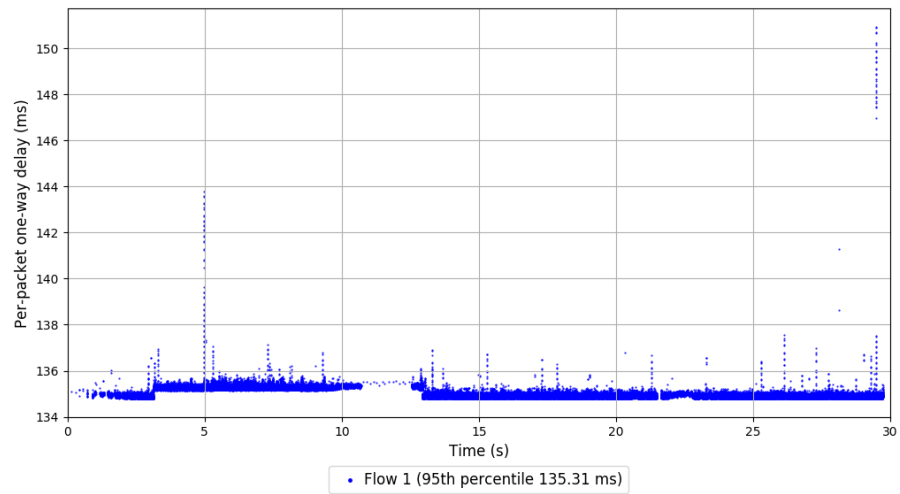
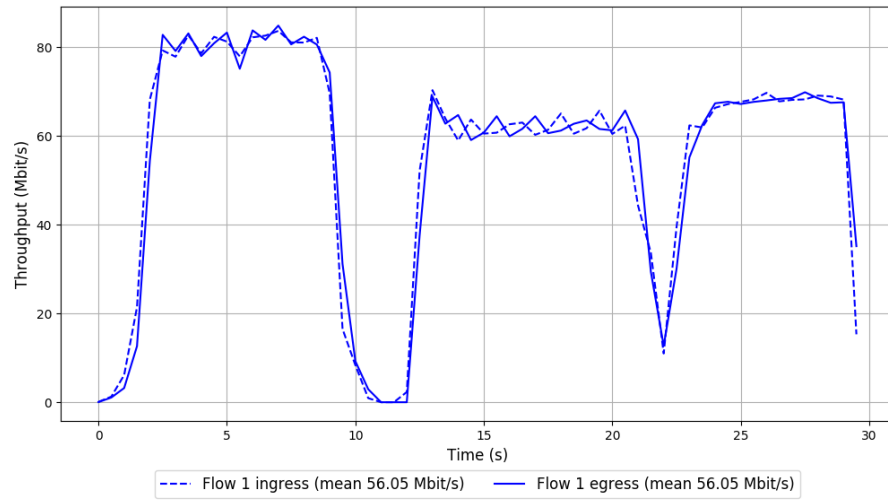
-- Flow 1:

Average throughput: 56.05 Mbit/s

95th percentile per-packet one-way delay: 135.308 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-16 09:24:47

End at: 2017-11-16 09:25:17

Below is generated by plot.py at 2017-11-16 10:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.44 Mbit/s

95th percentile per-packet one-way delay: 135.833 ms

Loss rate: 0.00%

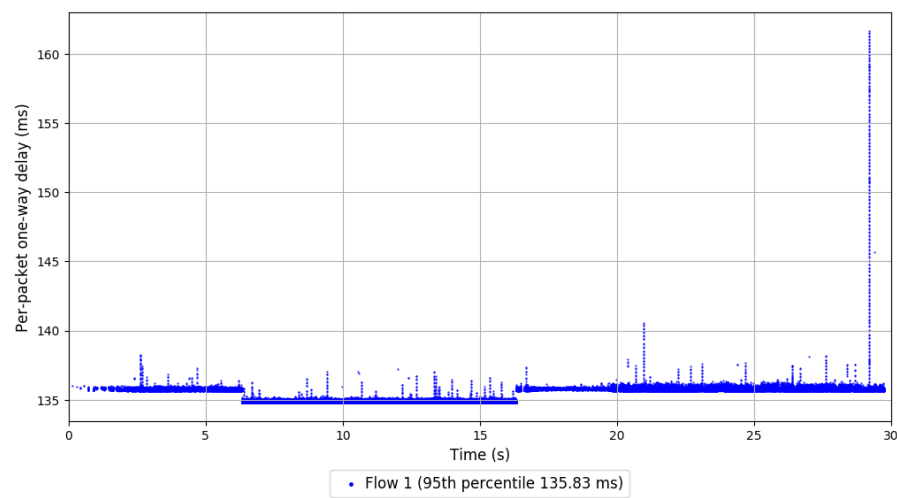
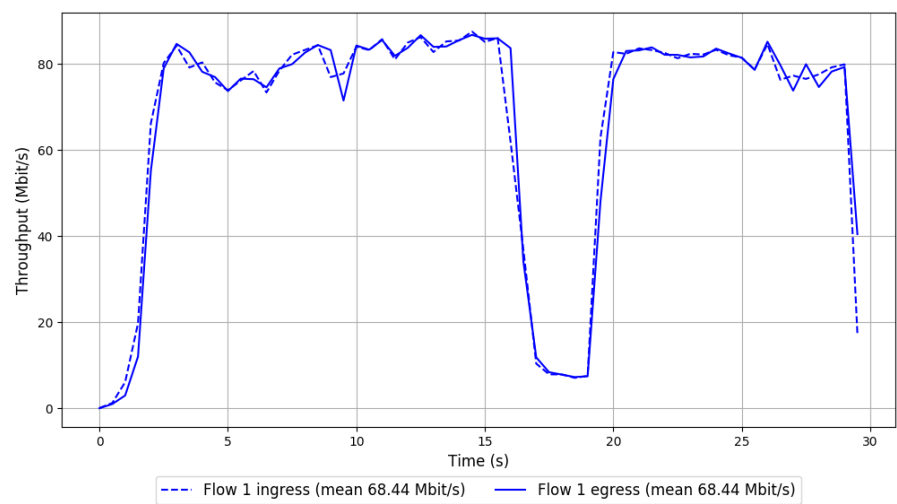
-- Flow 1:

Average throughput: 68.44 Mbit/s

95th percentile per-packet one-way delay: 135.833 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-16 09:36:03

End at: 2017-11-16 09:36:33

Below is generated by plot.py at 2017-11-16 10:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.06 Mbit/s

95th percentile per-packet one-way delay: 134.991 ms

Loss rate: 0.00%

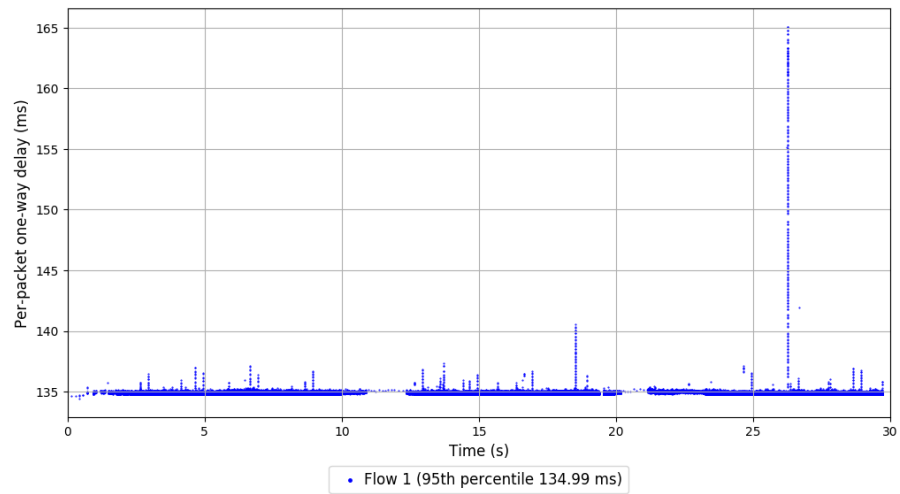
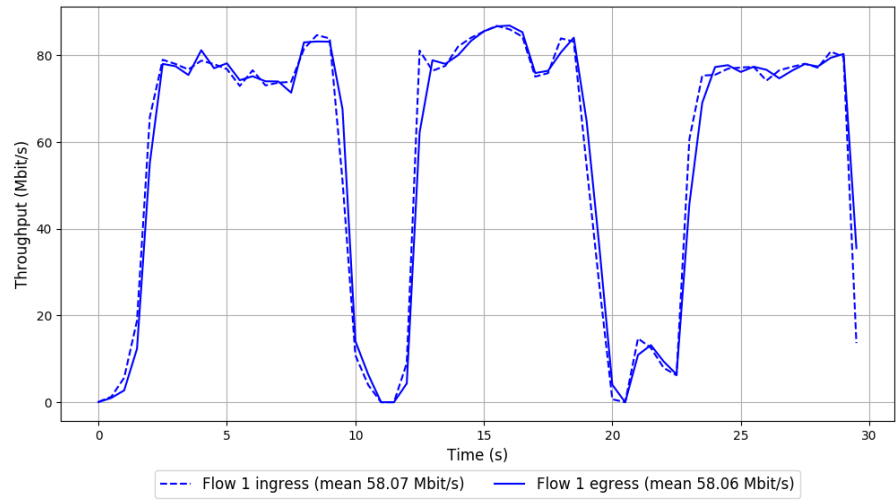
-- Flow 1:

Average throughput: 58.06 Mbit/s

95th percentile per-packet one-way delay: 134.991 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-16 09:47:30

End at: 2017-11-16 09:48:00

Below is generated by plot.py at 2017-11-16 10:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.52 Mbit/s

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

Loss rate: 0.00%

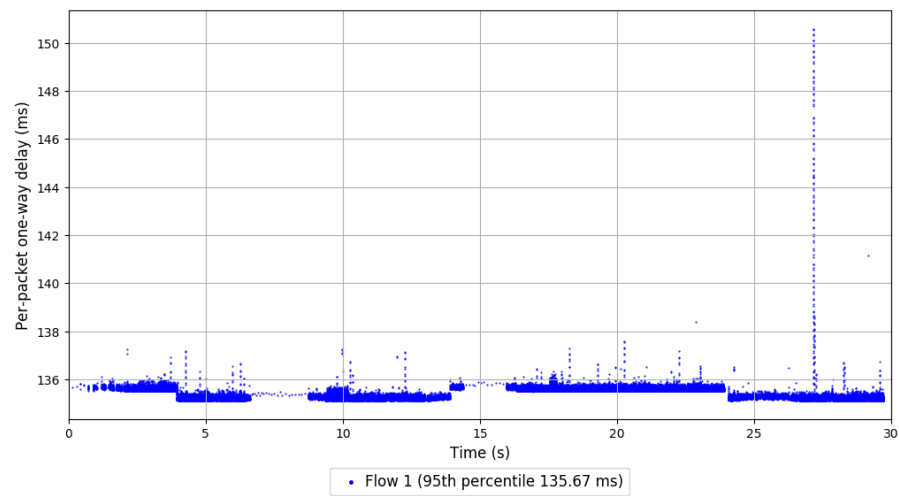
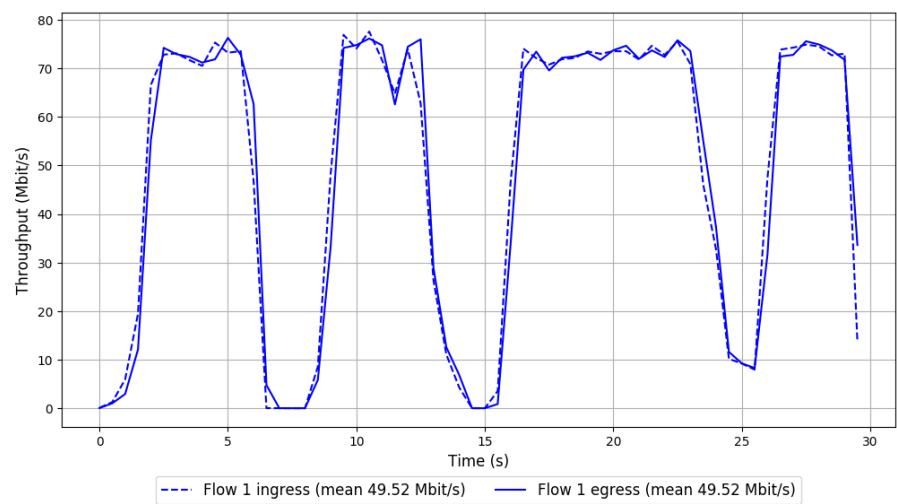
-- Flow 1:

Average throughput: 49.52 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

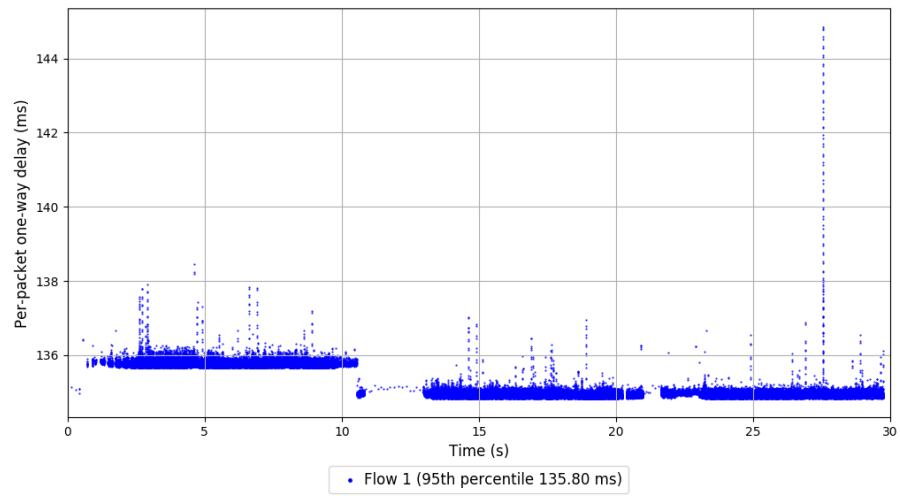
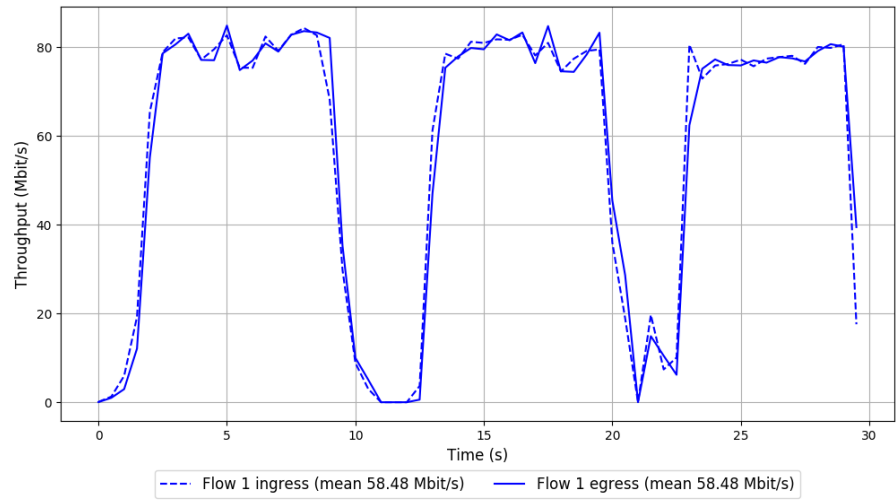


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-11-16 09:59:03
End at: 2017-11-16 09:59:33

# Below is generated by plot.py at 2017-11-16 10:46:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.48 Mbit/s
95th percentile per-packet one-way delay: 135.804 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.48 Mbit/s
95th percentile per-packet one-way delay: 135.804 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

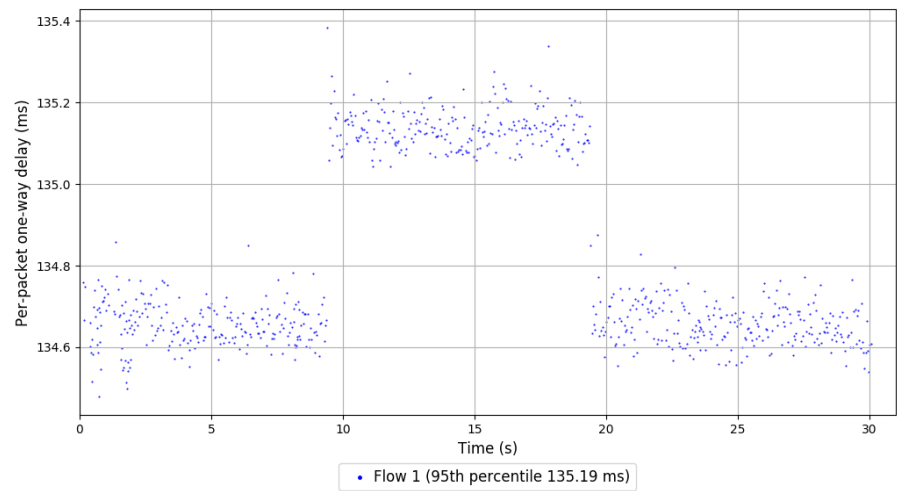
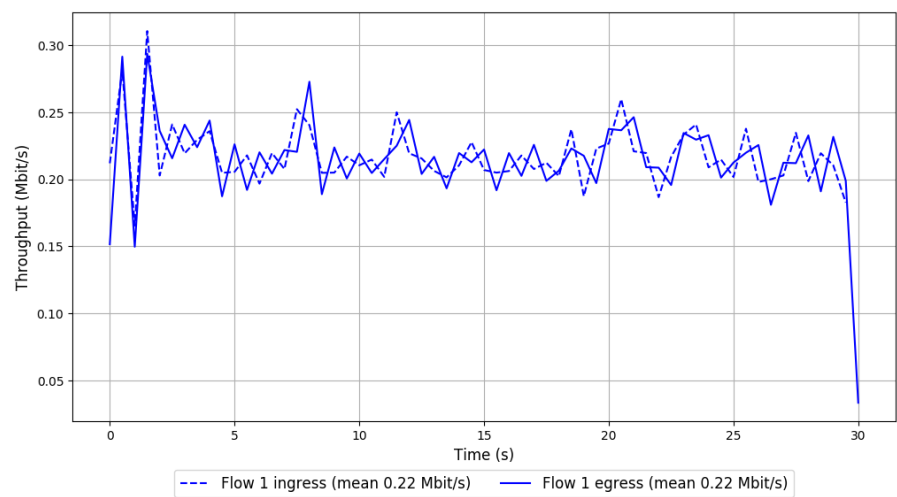


```
Run 1: Statistics of SCReAM

Start at: 2017-11-16 08:10:15
End at: 2017-11-16 08:10:45

# Below is generated by plot.py at 2017-11-16 10:46:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.188 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.188 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

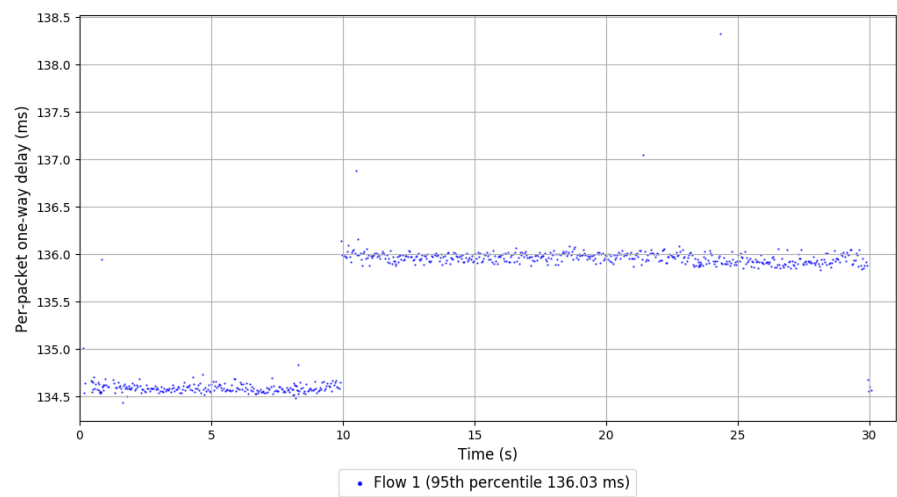
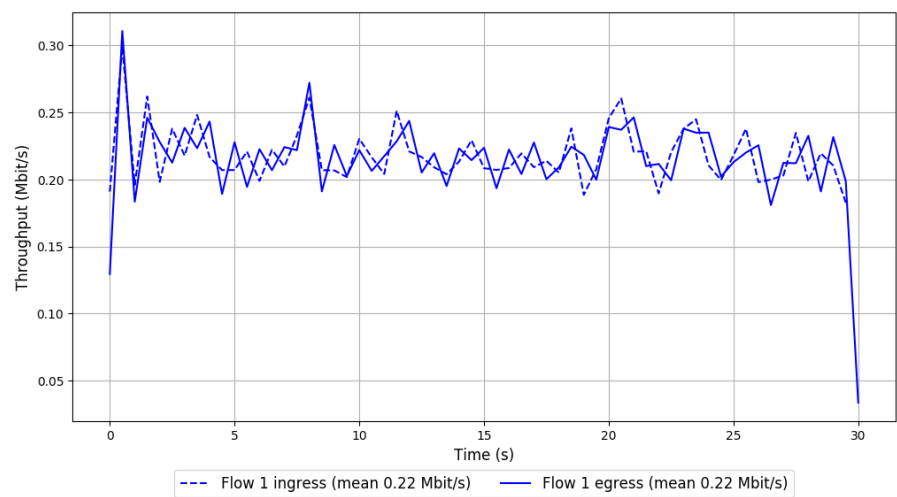


```
Run 2: Statistics of SCReAM

Start at: 2017-11-16 08:21:44
End at: 2017-11-16 08:22:14

# Below is generated by plot.py at 2017-11-16 10:46:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.033 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.033 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-11-16 08:32:34

End at: 2017-11-16 08:33:04

Below is generated by plot.py at 2017-11-16 10:46:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 165.195 ms

Loss rate: 0.00%

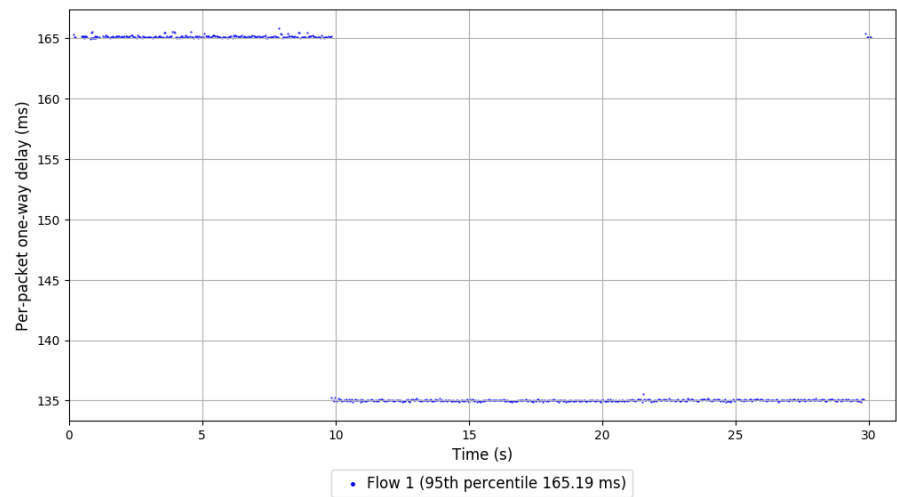
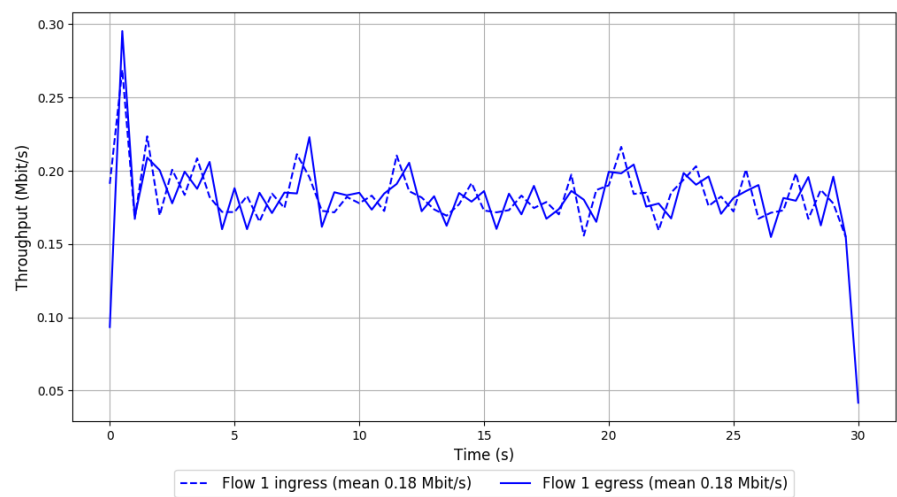
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 165.195 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

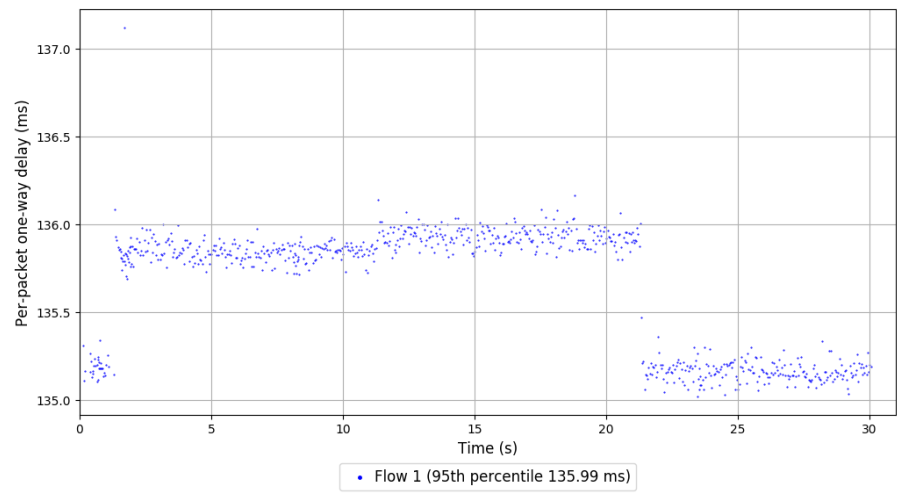
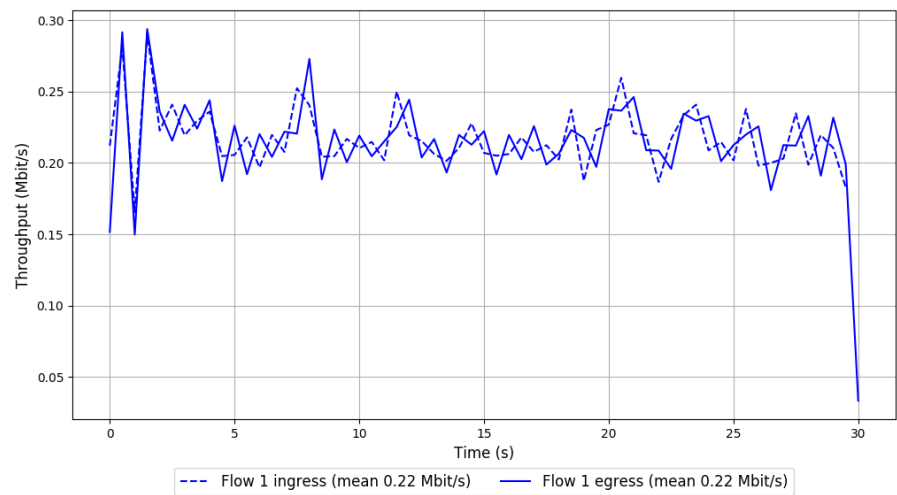


```
Run 4: Statistics of SCReAM

Start at: 2017-11-16 08:43:53
End at: 2017-11-16 08:44:23

# Below is generated by plot.py at 2017-11-16 10:46:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.990 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.990 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-11-16 08:54:49

End at: 2017-11-16 08:55:19

Below is generated by plot.py at 2017-11-16 10:46:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.995 ms

Loss rate: 0.00%

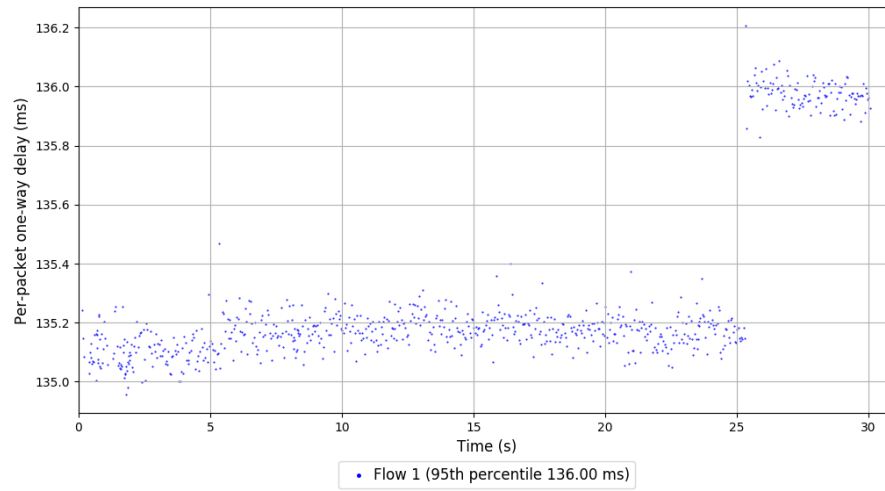
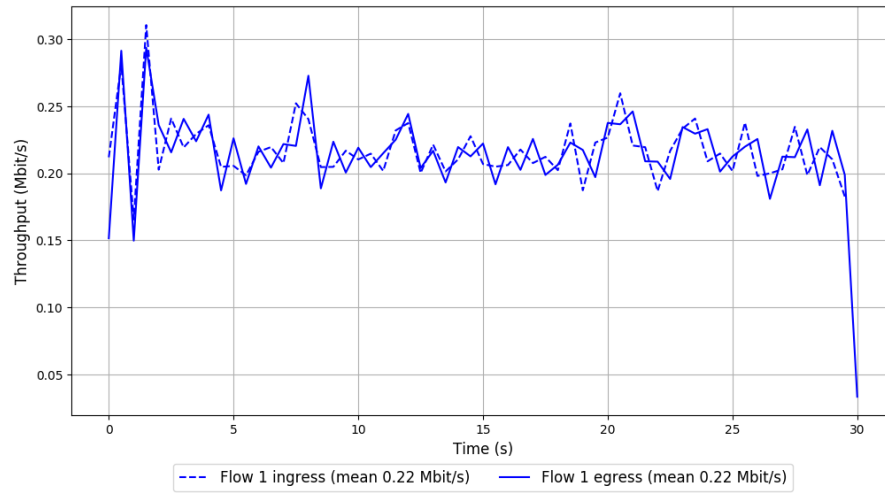
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.995 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

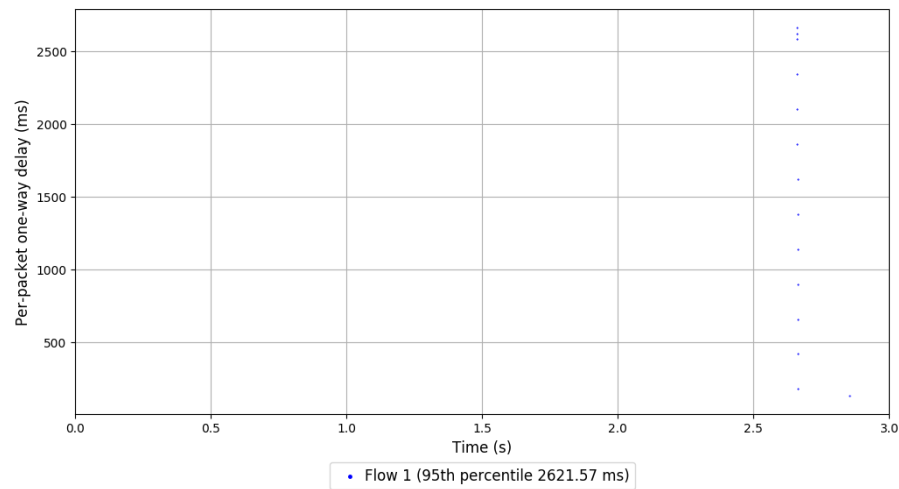
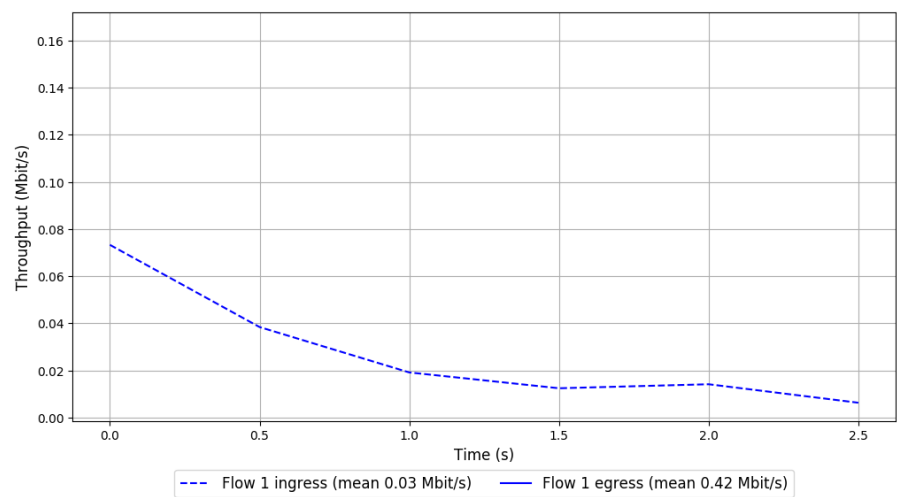


Run 6: Statistics of SReAM

Start at: 2017-11-16 09:06:09

End at: 2017-11-16 09:06:39

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-11-16 09:17:43

End at: 2017-11-16 09:18:13

Below is generated by plot.py at 2017-11-16 10:46:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.145 ms

Loss rate: 0.00%

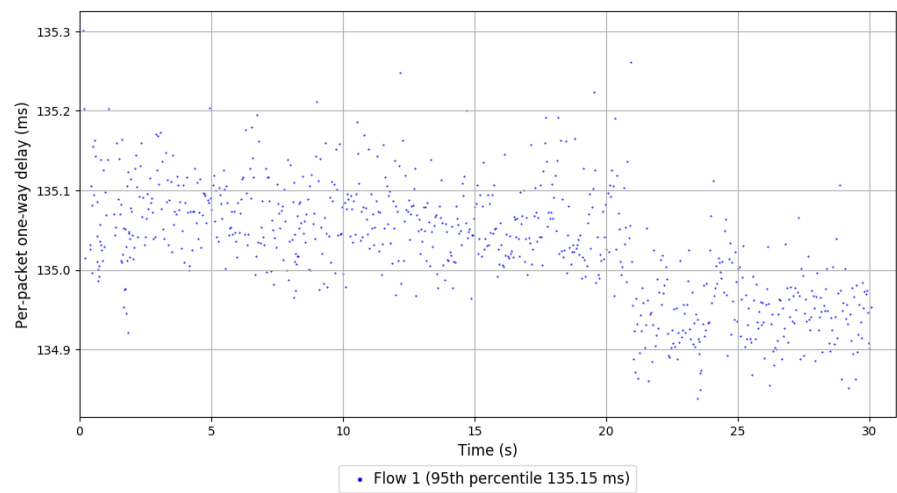
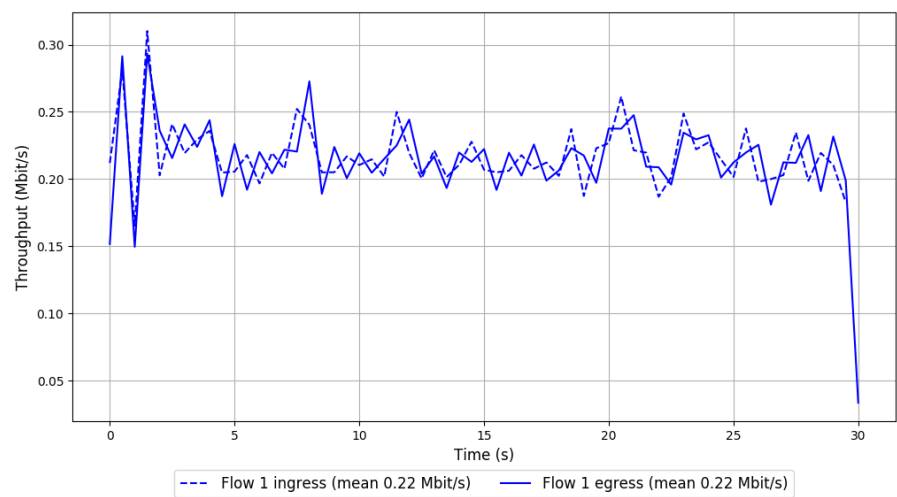
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.145 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-11-16 09:29:11

End at: 2017-11-16 09:29:41

Below is generated by plot.py at 2017-11-16 10:46:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.217 ms

Loss rate: 0.00%

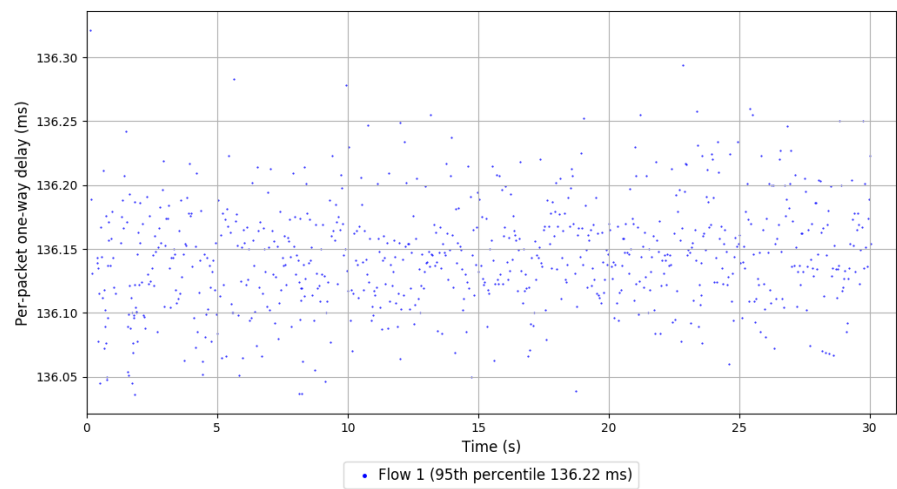
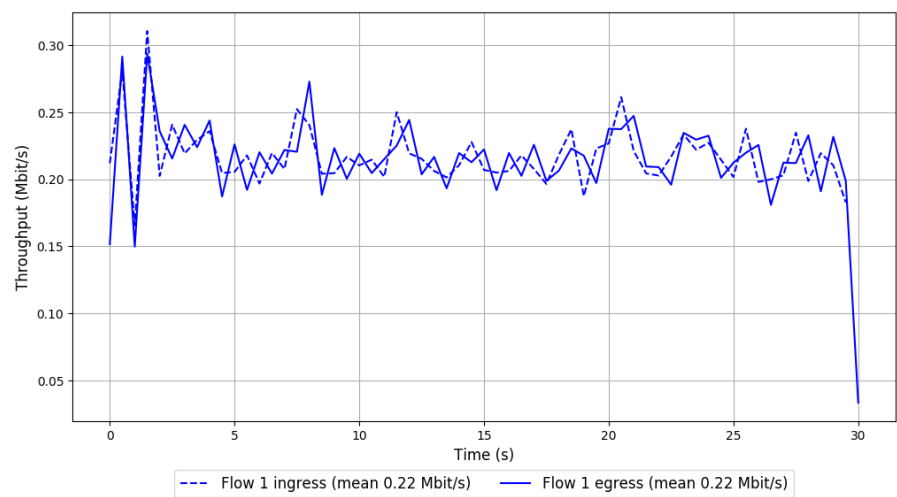
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.217 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-11-16 09:40:27

End at: 2017-11-16 09:40:57

Below is generated by plot.py at 2017-11-16 10:46:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.262 ms

Loss rate: 0.00%

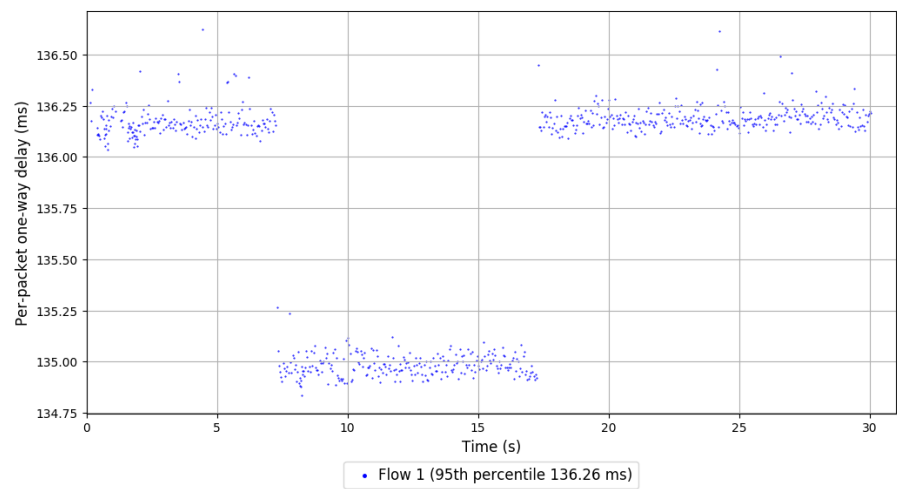
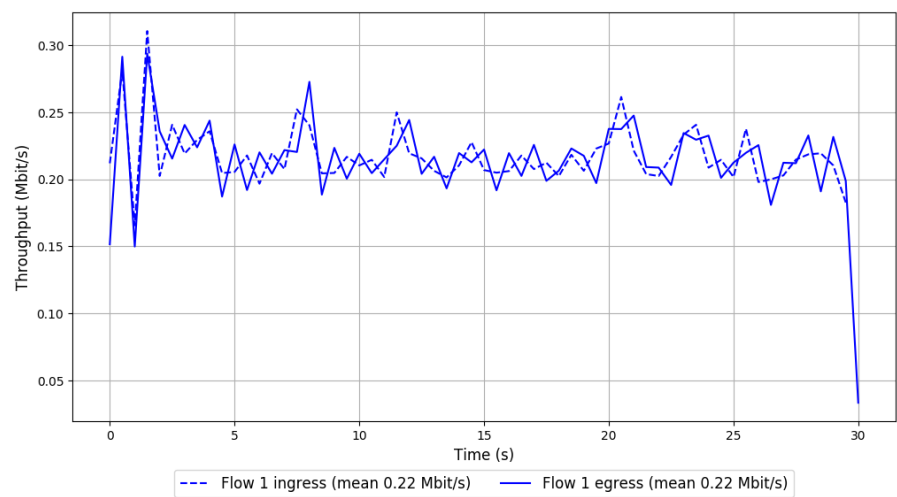
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.262 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

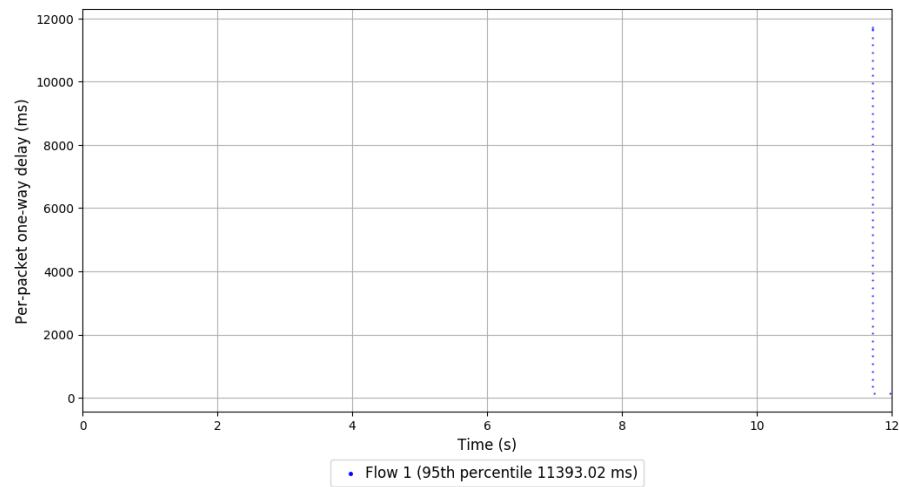
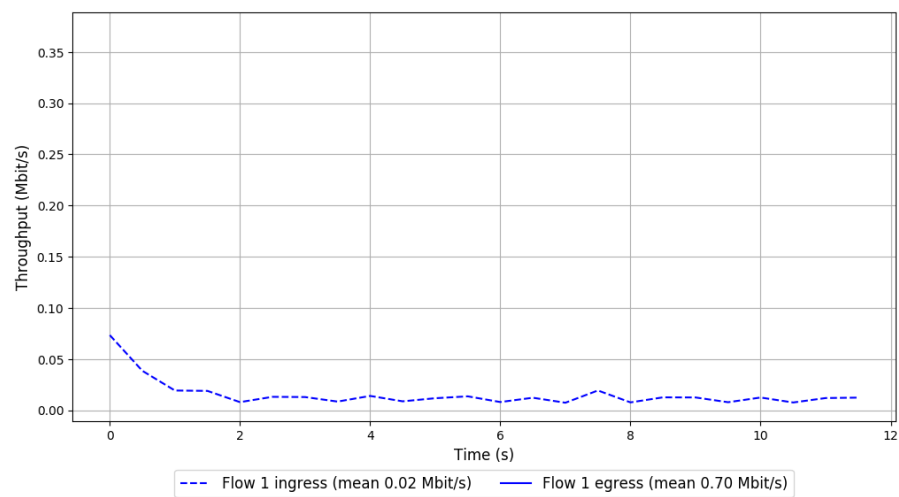


Run 10: Statistics of SCReAM

Start at: 2017-11-16 09:51:55

End at: 2017-11-16 09:52:25

Run 10: Report of SCReAM — Data Link

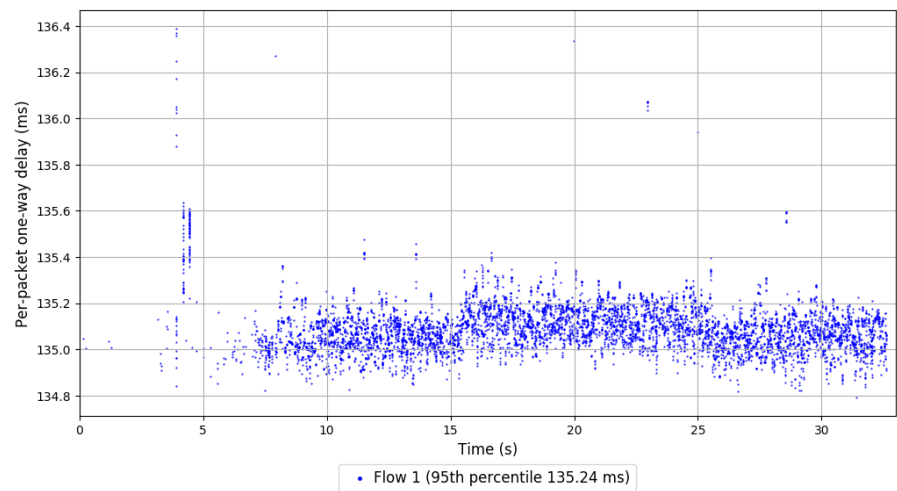
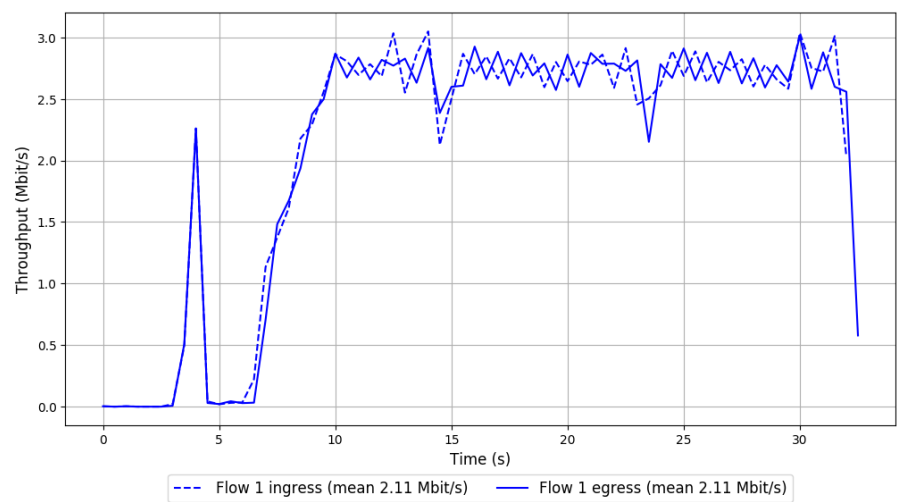


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-16 08:11:51
End at: 2017-11-16 08:12:21

# Below is generated by plot.py at 2017-11-16 10:46:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 135.241 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 135.241 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-16 08:23:15

End at: 2017-11-16 08:23:45

Below is generated by plot.py at 2017-11-16 10:46:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 135.913 ms

Loss rate: 0.00%

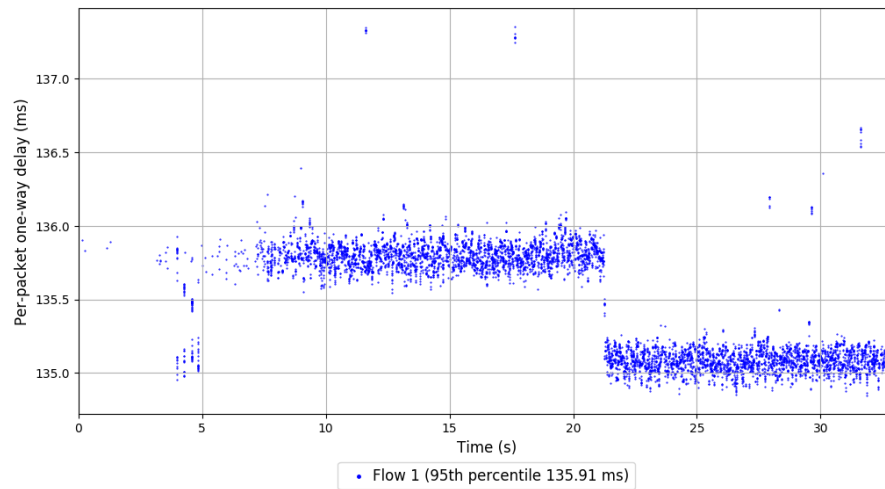
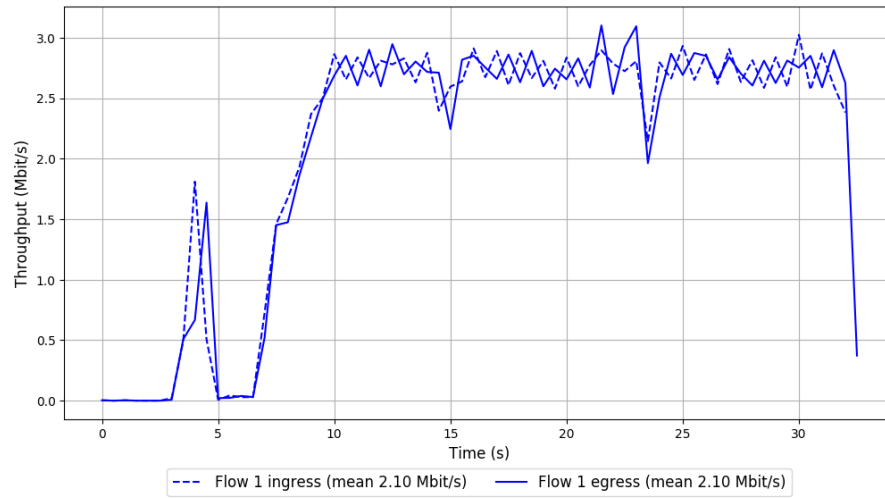
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 135.913 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-16 08:34:12

End at: 2017-11-16 08:34:42

Below is generated by plot.py at 2017-11-16 10:46:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 135.501 ms

Loss rate: 0.00%

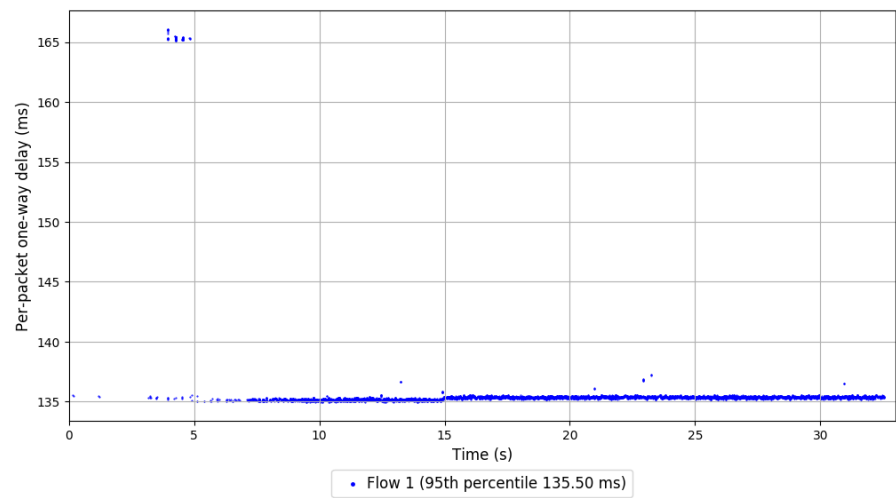
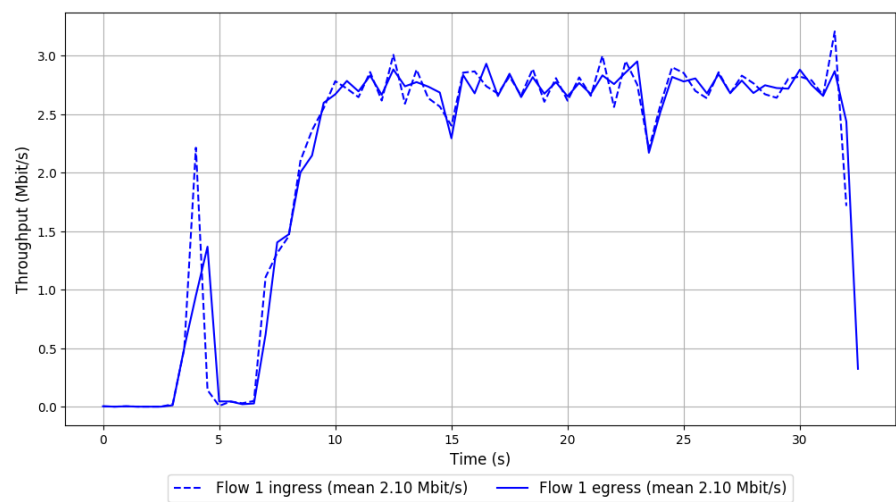
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 135.501 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-16 08:45:29

End at: 2017-11-16 08:45:59

Below is generated by plot.py at 2017-11-16 10:46:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 165.861 ms

Loss rate: 0.00%

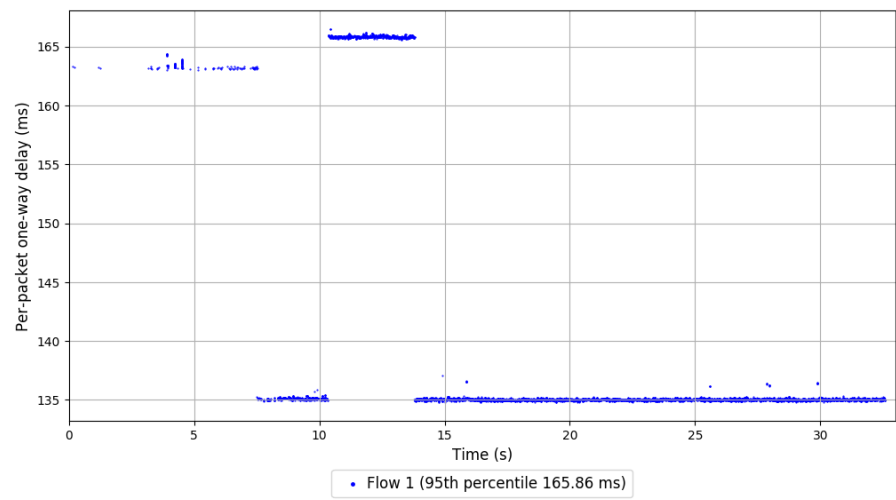
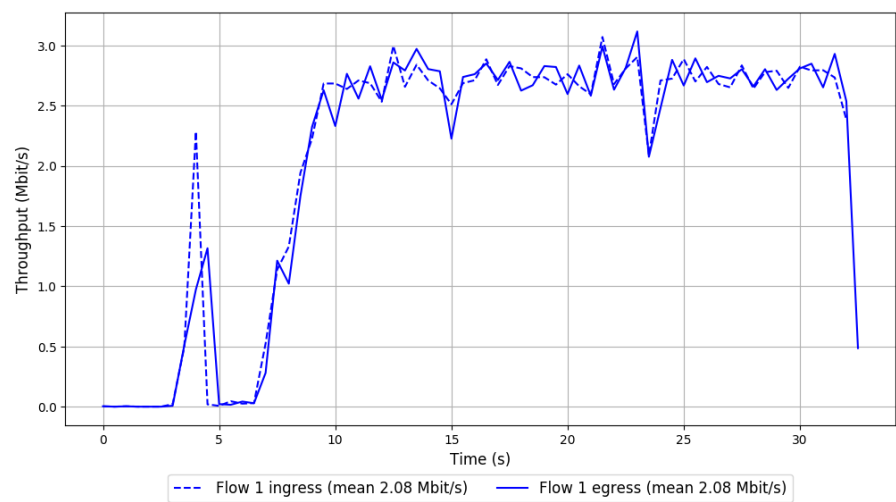
-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 165.861 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-16 08:56:28

End at: 2017-11-16 08:56:58

Below is generated by plot.py at 2017-11-16 10:46:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 135.522 ms

Loss rate: 0.00%

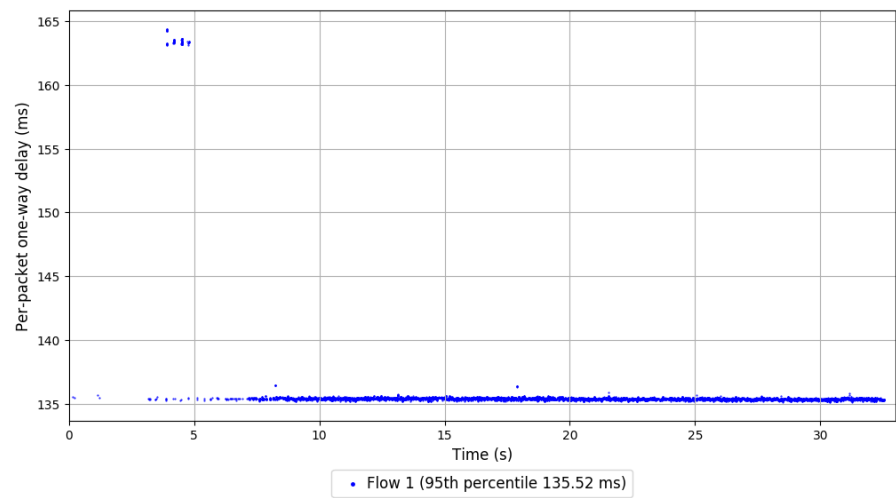
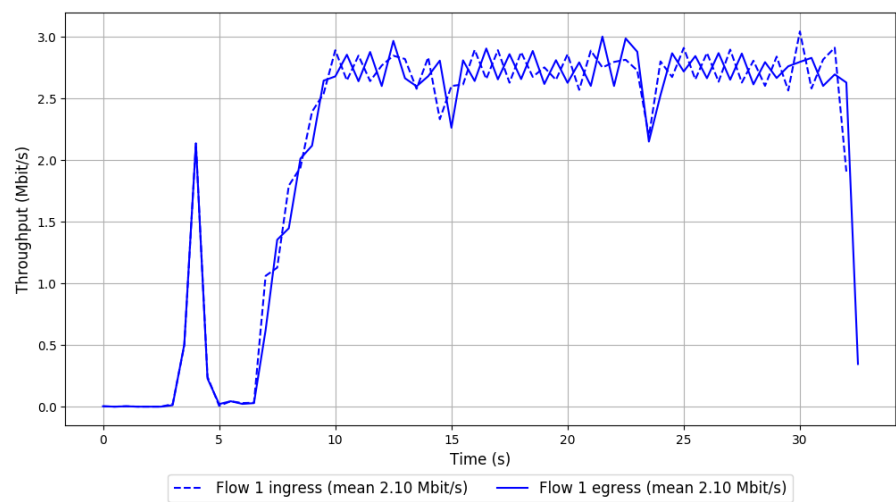
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 135.522 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-16 09:07:45

End at: 2017-11-16 09:08:15

Below is generated by plot.py at 2017-11-16 10:46:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 135.203 ms

Loss rate: 0.00%

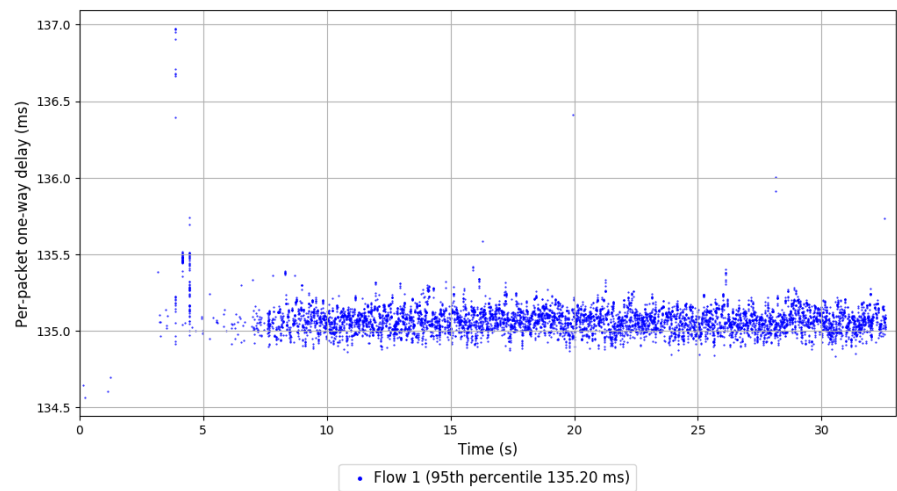
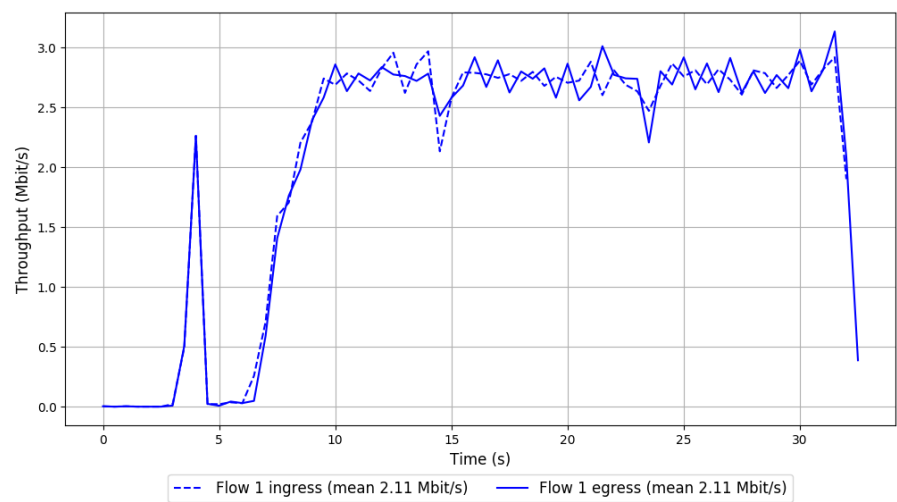
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 135.203 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-16 09:19:10

End at: 2017-11-16 09:19:40

Below is generated by plot.py at 2017-11-16 10:46:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 134.788 ms

Loss rate: 0.00%

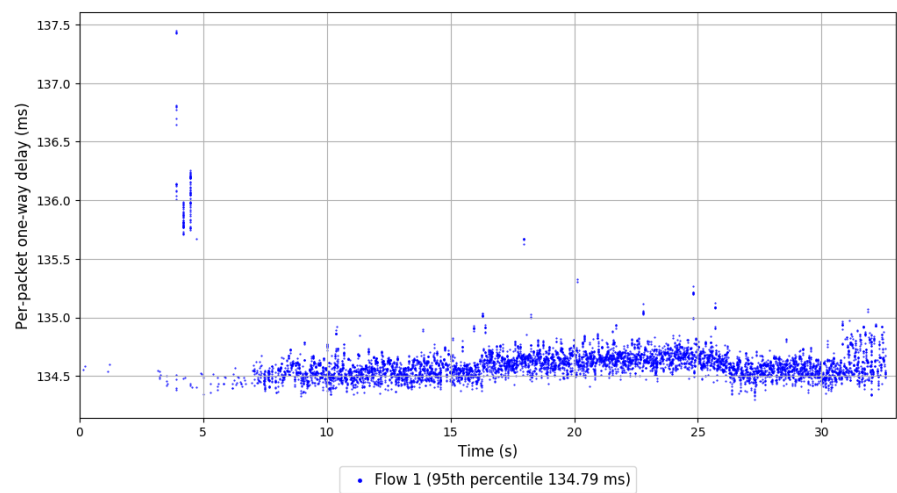
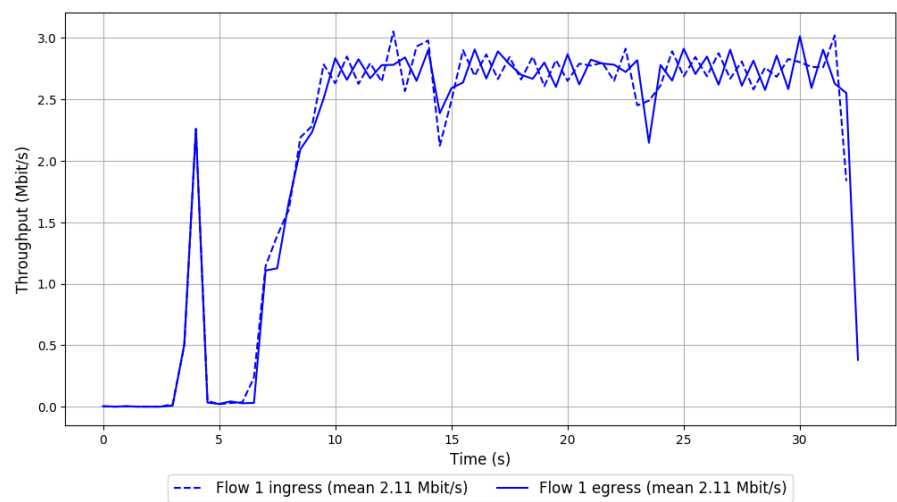
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 134.788 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-16 09:30:48

End at: 2017-11-16 09:31:18

Below is generated by plot.py at 2017-11-16 10:46:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 136.299 ms

Loss rate: 0.00%

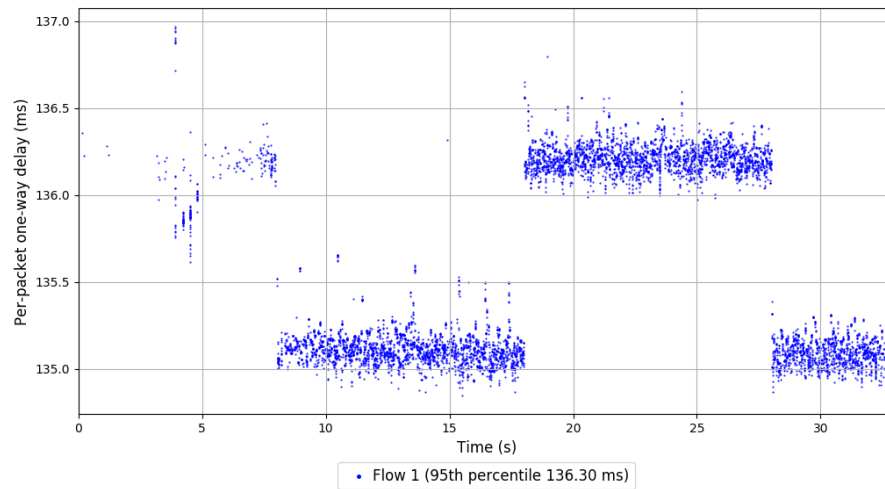
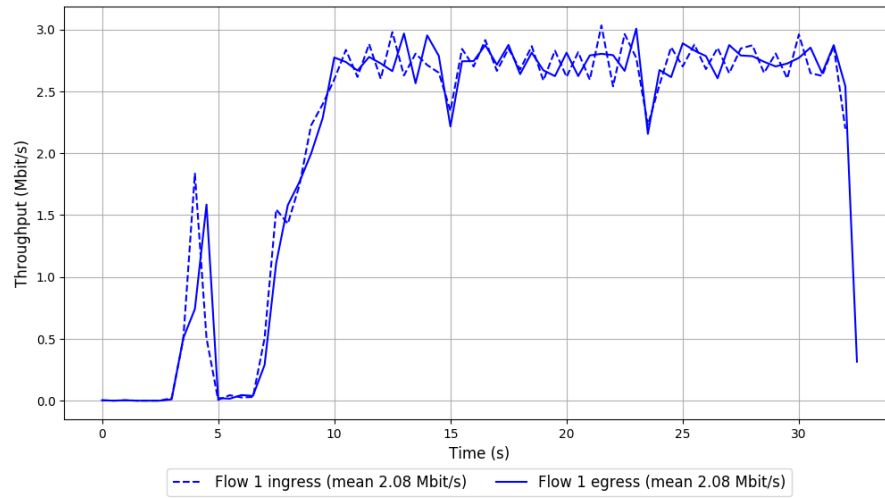
-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 136.299 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-16 09:42:03

End at: 2017-11-16 09:42:33

Below is generated by plot.py at 2017-11-16 10:46:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 135.877 ms

Loss rate: 0.00%

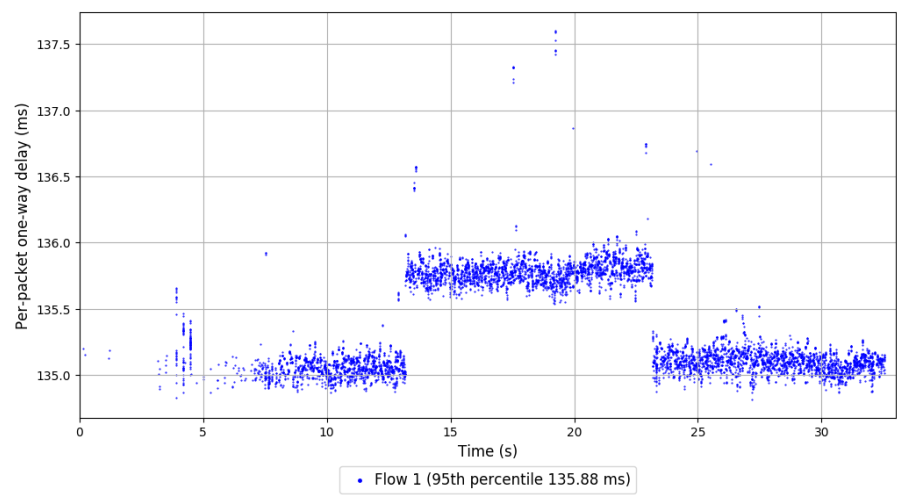
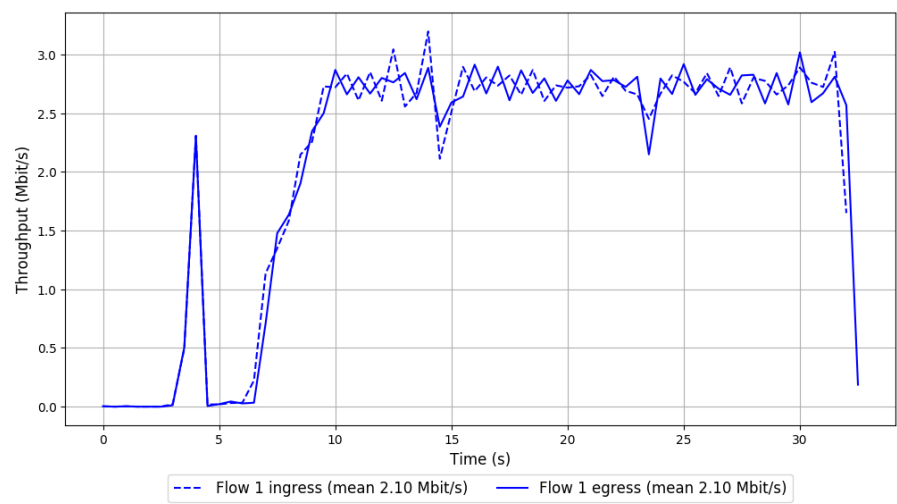
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 135.877 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-16 09:53:29

End at: 2017-11-16 09:53:59

Below is generated by plot.py at 2017-11-16 10:46:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 135.962 ms

Loss rate: 0.00%

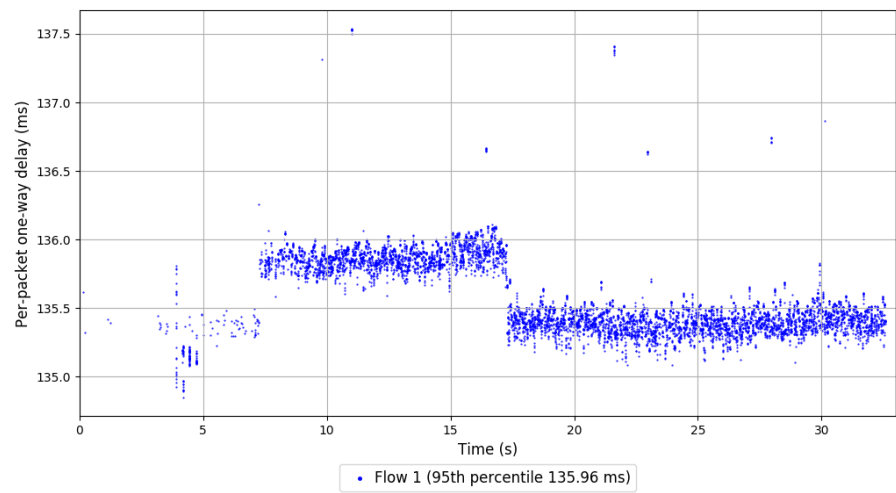
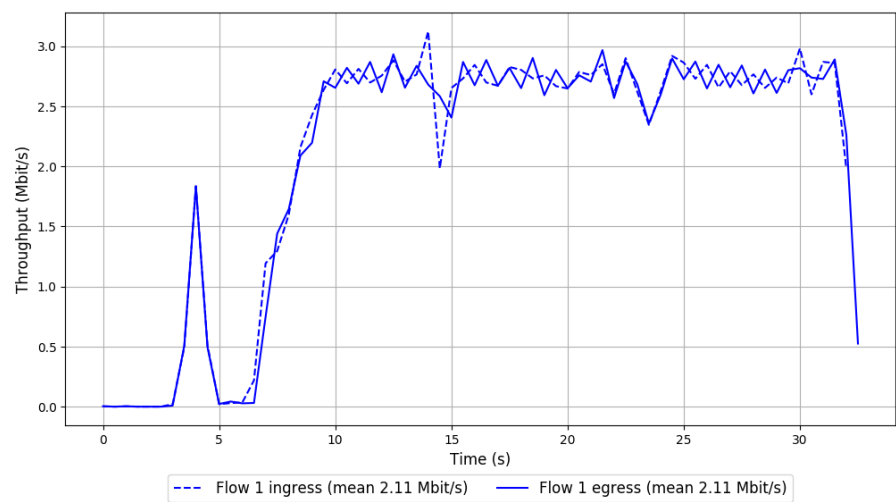
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 135.962 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-11-16 08:13:38

End at: 2017-11-16 08:14:08

Below is generated by plot.py at 2017-11-16 10:46:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 135.461 ms

Loss rate: 0.00%

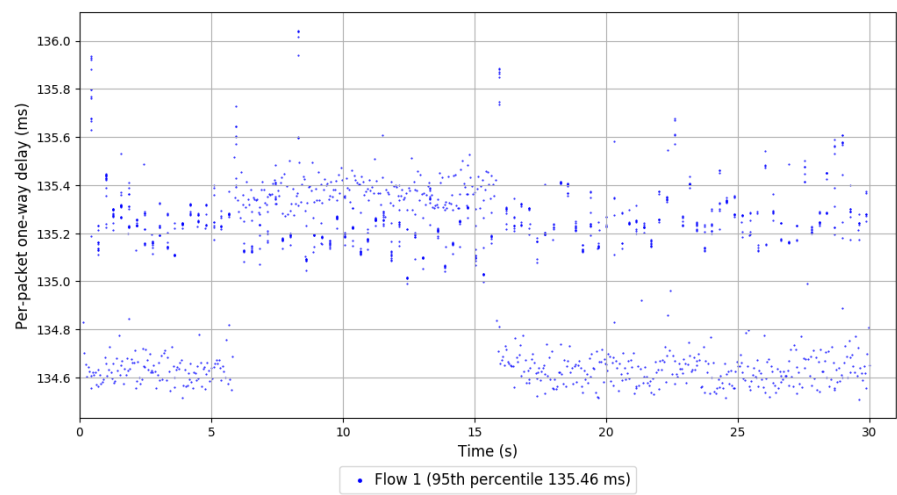
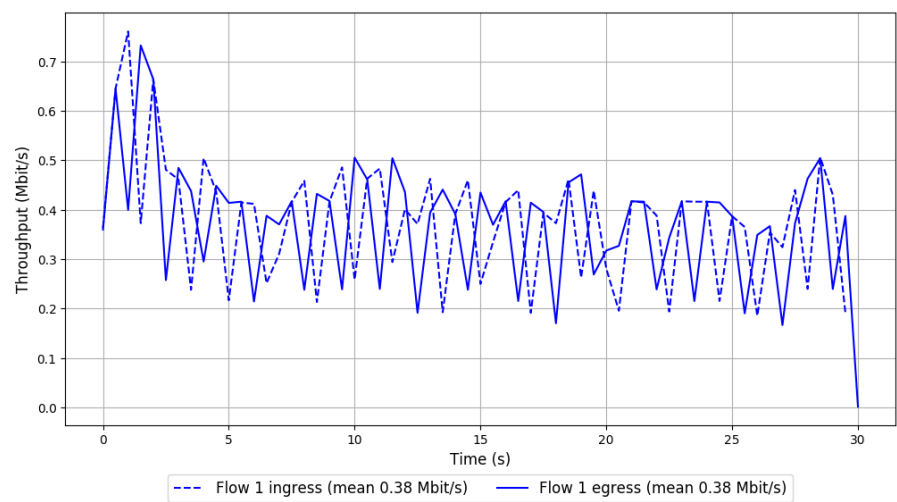
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 135.461 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-16 08:24:42

End at: 2017-11-16 08:25:12

Below is generated by plot.py at 2017-11-16 10:46:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 135.990 ms

Loss rate: 0.00%

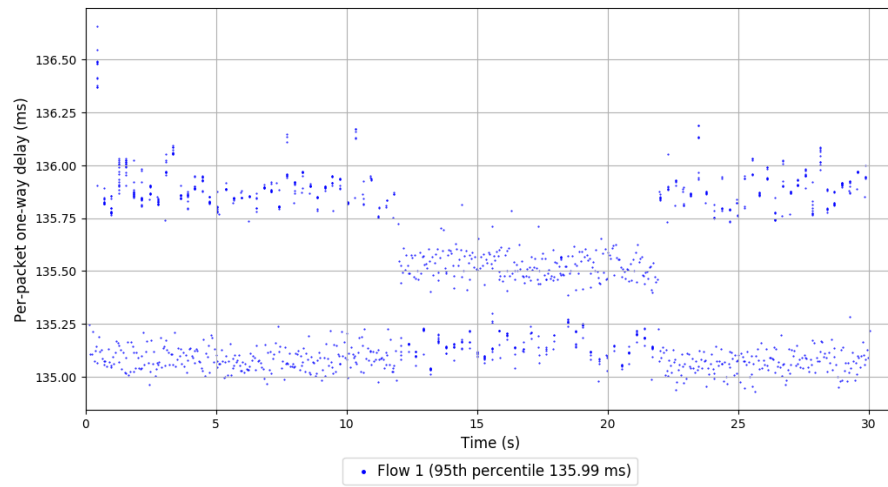
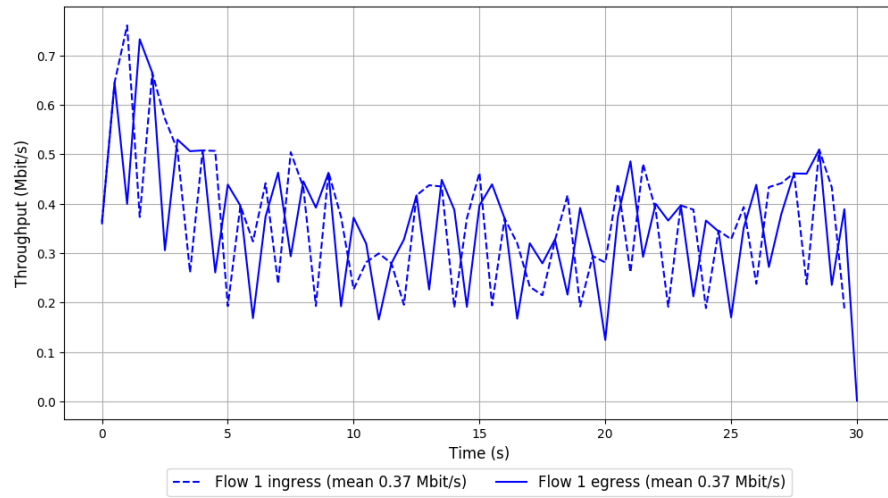
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 135.990 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-16 08:35:46

End at: 2017-11-16 08:36:16

Below is generated by plot.py at 2017-11-16 10:46:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 165.435 ms

Loss rate: 0.23%

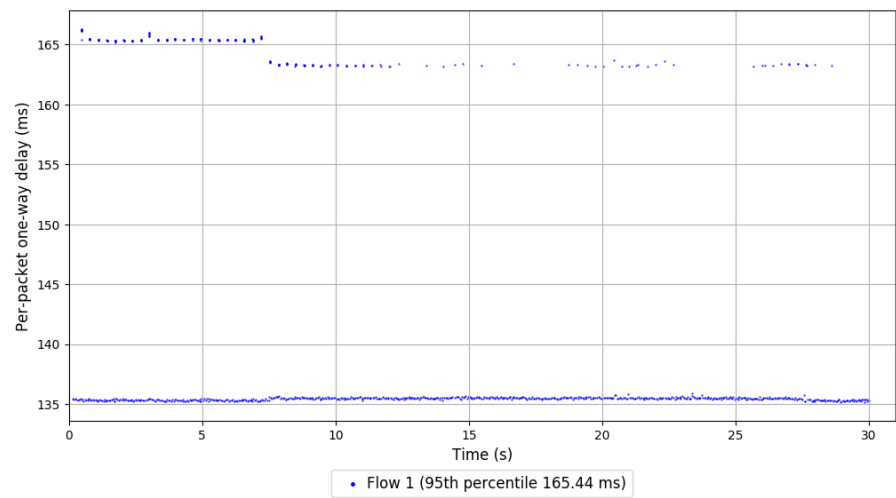
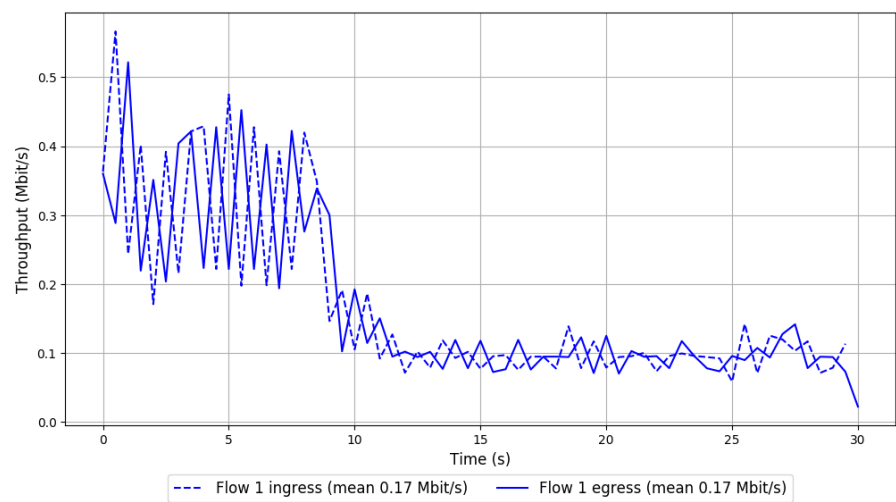
-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 165.435 ms

Loss rate: 0.23%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-16 08:46:57

End at: 2017-11-16 08:47:27

Below is generated by plot.py at 2017-11-16 10:46:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 163.377 ms

Loss rate: 0.00%

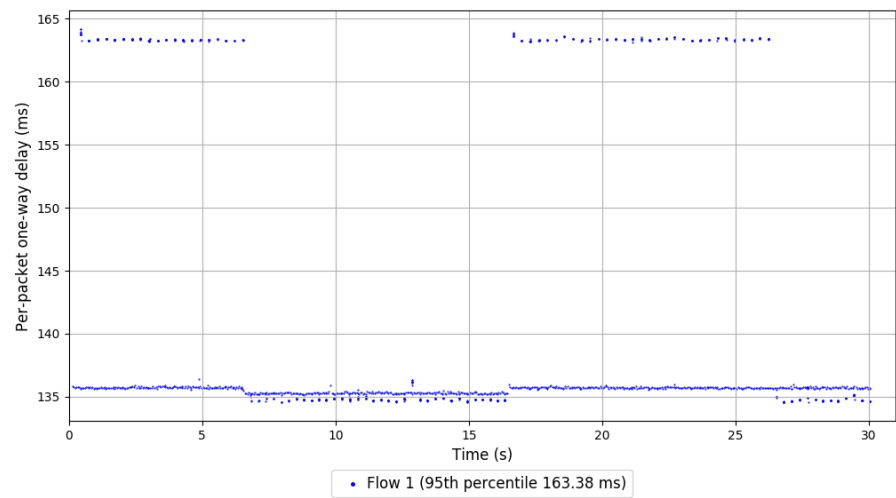
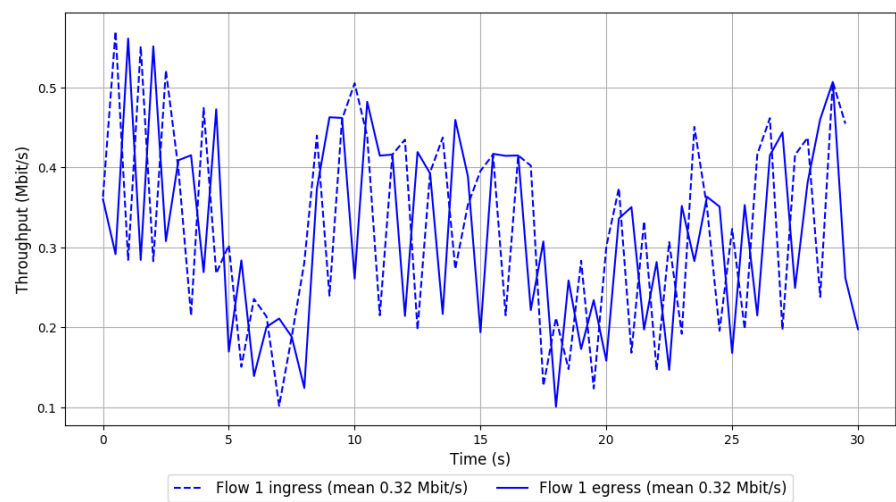
-- Flow 1:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 163.377 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-16 08:58:04

End at: 2017-11-16 08:58:34

Below is generated by plot.py at 2017-11-16 10:46:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 165.459 ms

Loss rate: 0.00%

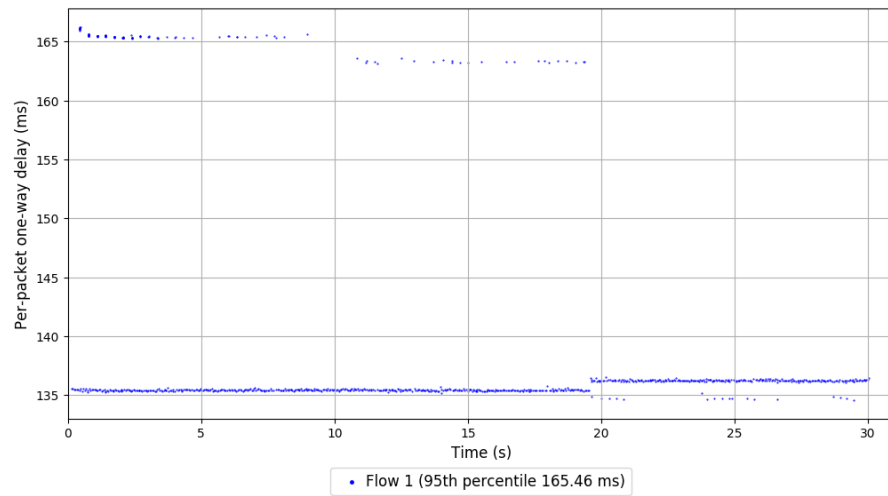
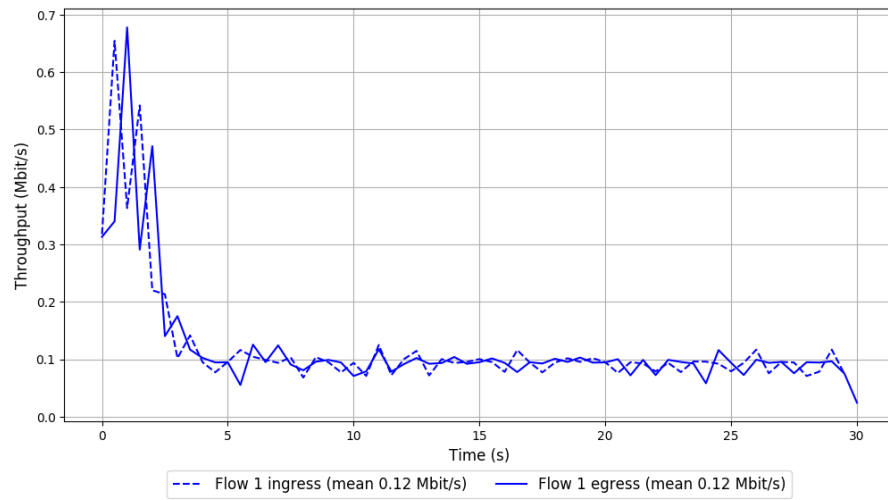
-- Flow 1:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 165.459 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-16 09:09:31

End at: 2017-11-16 09:10:01

Below is generated by plot.py at 2017-11-16 10:46:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.078 ms

Loss rate: 0.00%

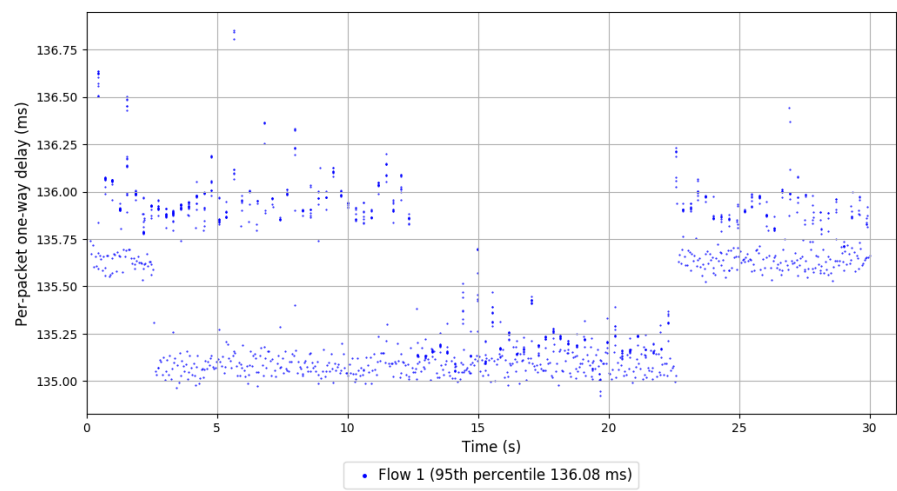
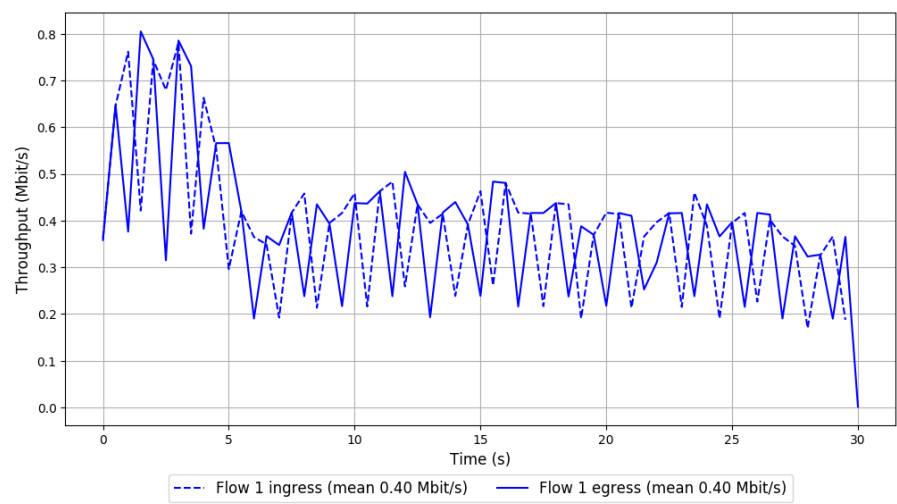
-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.078 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-16 09:20:58

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

Below is generated by plot.py at 2017-11-16 10:46:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.036 ms

Loss rate: 0.00%

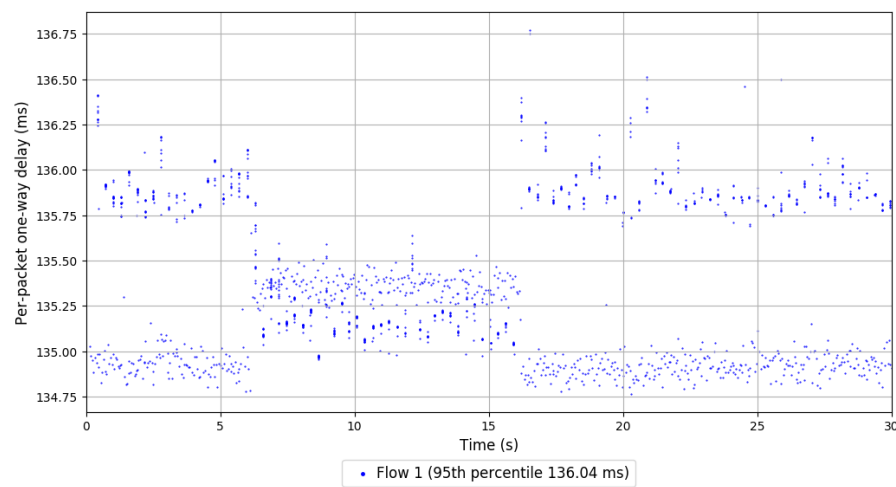
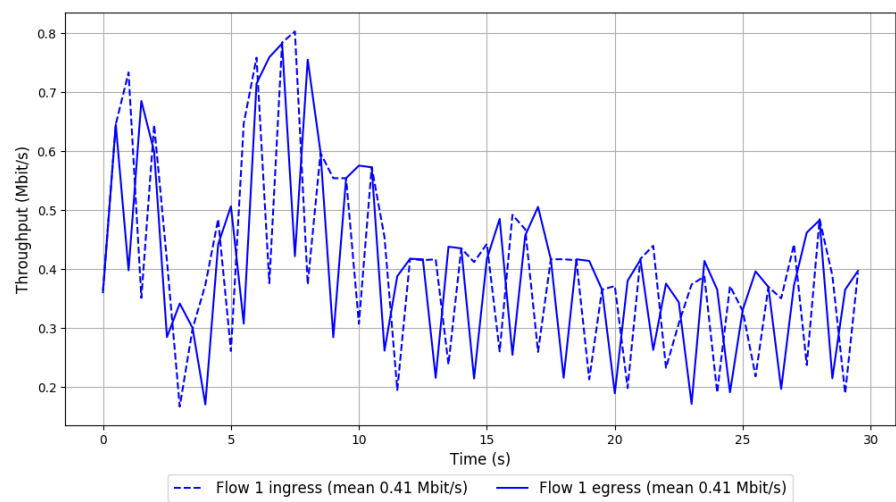
-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.036 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-16 09:32:15

End at: 2017-11-16 09:32:45

Below is generated by plot.py at 2017-11-16 10:46:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.80 Mbit/s

95th percentile per-packet one-way delay: 136.018 ms

Loss rate: 0.00%

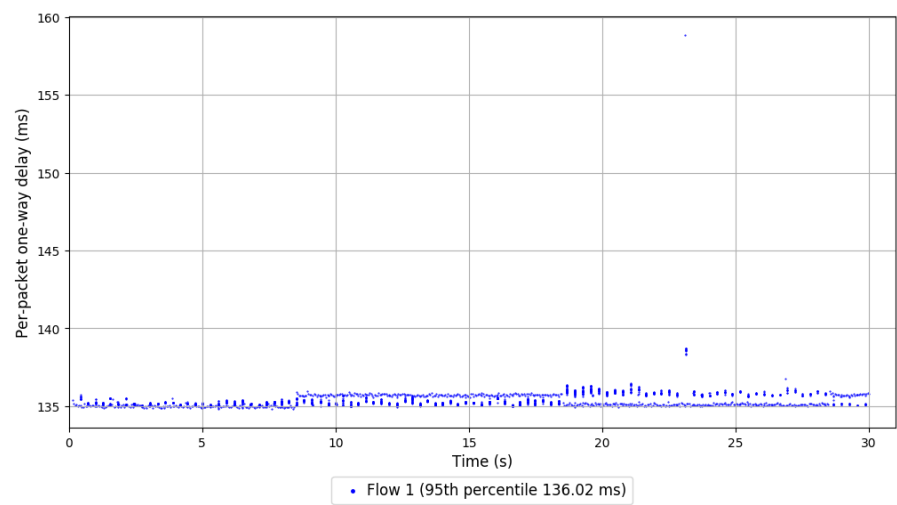
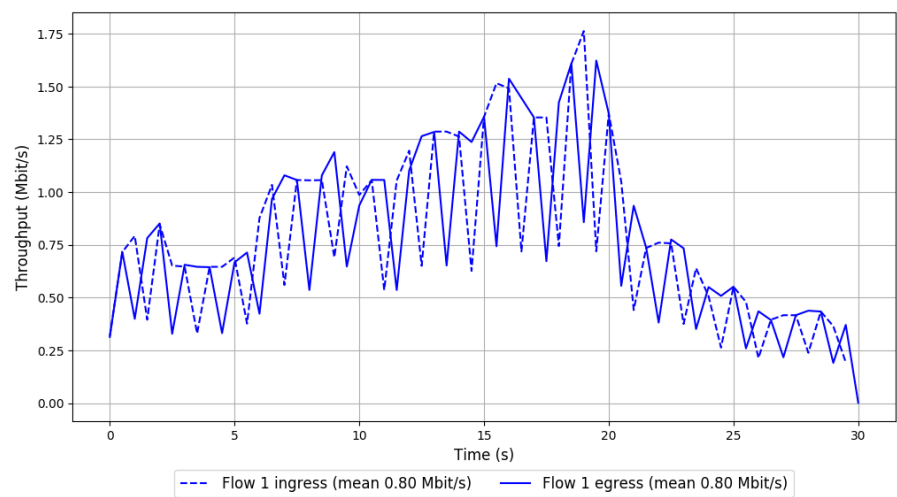
-- Flow 1:

Average throughput: 0.80 Mbit/s

95th percentile per-packet one-way delay: 136.018 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-16 09:43:50

End at: 2017-11-16 09:44:20

Below is generated by plot.py at 2017-11-16 10:46:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 135.897 ms

Loss rate: 0.00%

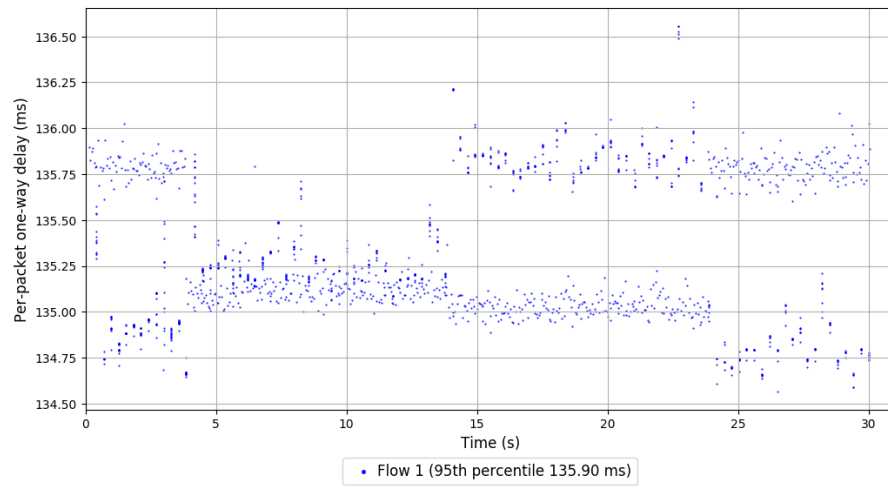
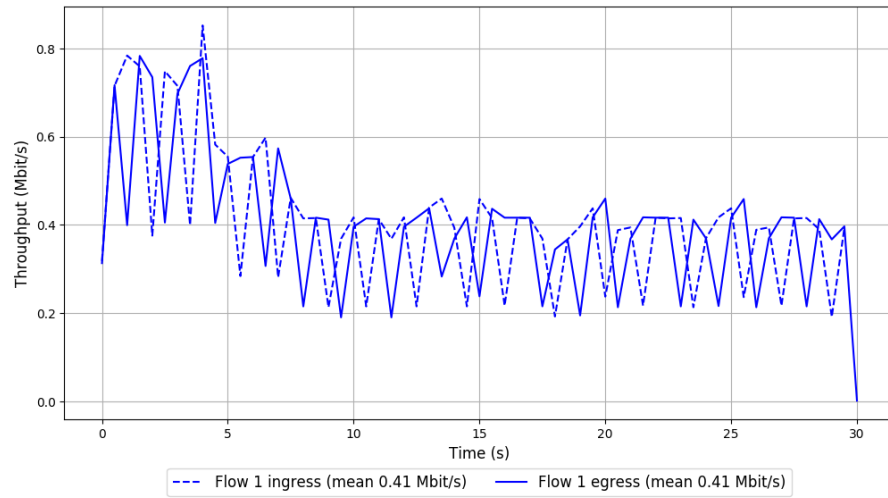
-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 135.897 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-16 09:55:14

End at: 2017-11-16 09:55:44

Below is generated by plot.py at 2017-11-16 10:46:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 135.906 ms

Loss rate: 0.00%

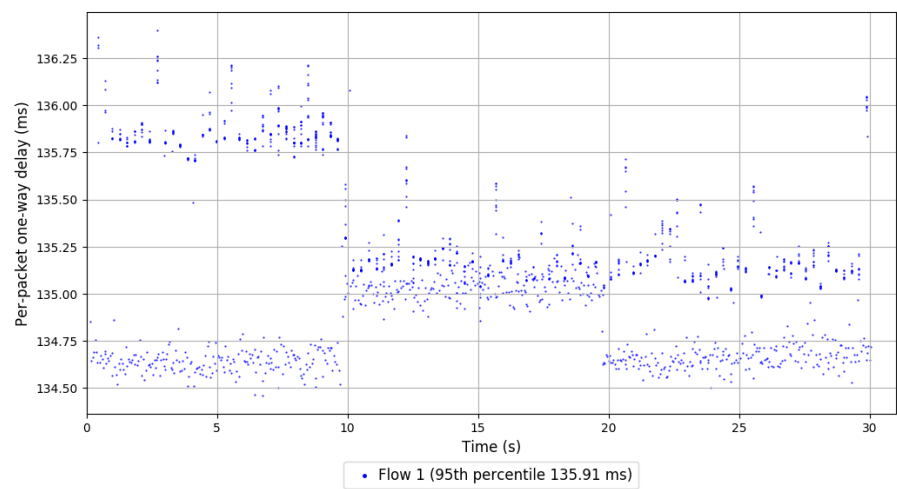
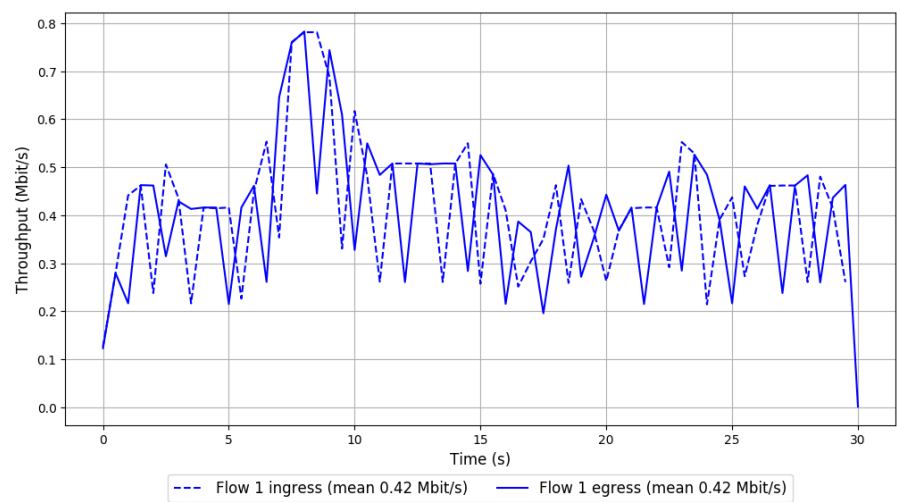
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 135.906 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

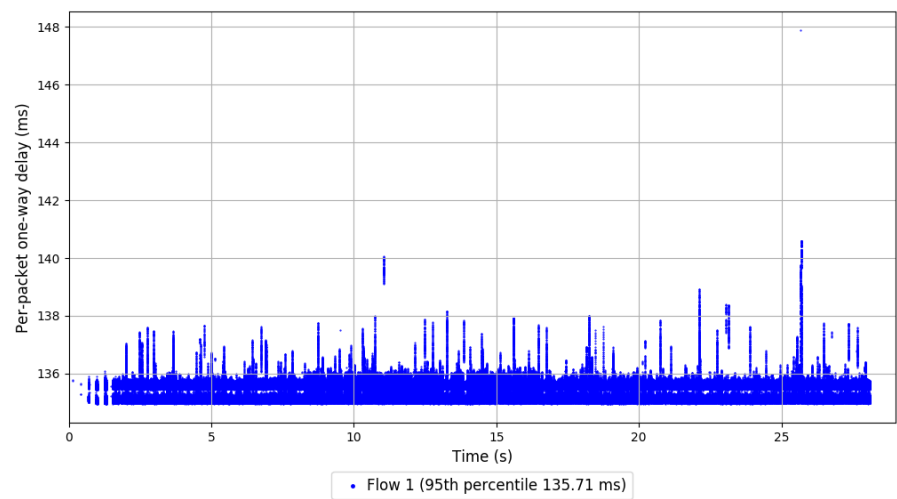
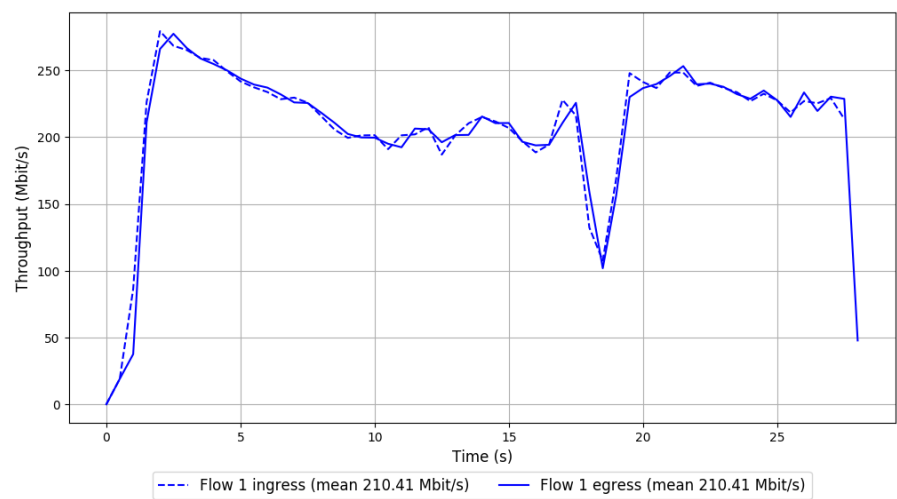


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-16 08:12:34
End at: 2017-11-16 08:13:04

# Below is generated by plot.py at 2017-11-16 10:52:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 210.41 Mbit/s
95th percentile per-packet one-way delay: 135.710 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 210.41 Mbit/s
95th percentile per-packet one-way delay: 135.710 ms
Loss rate: 0.00%
```

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

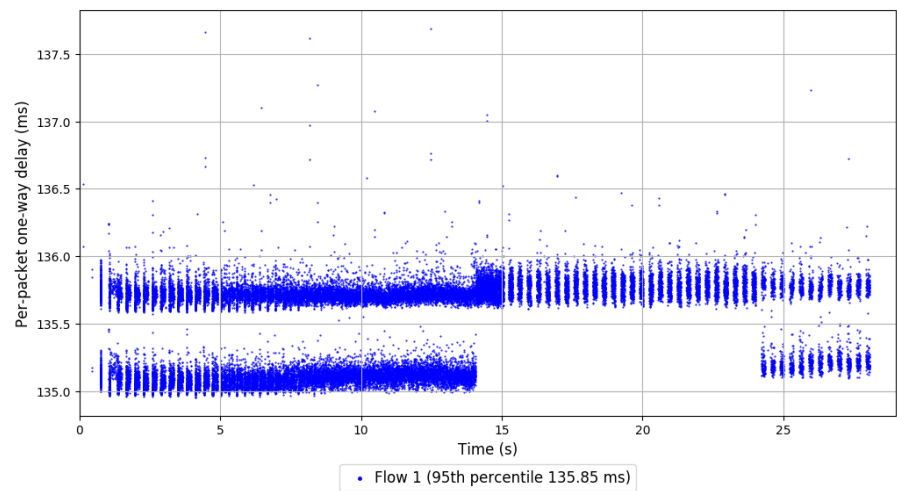
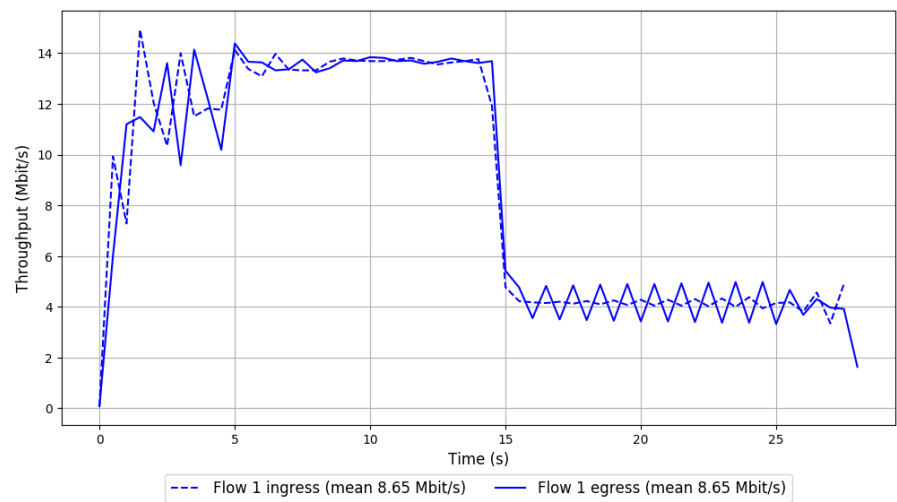


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-16 08:23:58
End at: 2017-11-16 08:24:28

# Below is generated by plot.py at 2017-11-16 10:52:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.65 Mbit/s
95th percentile per-packet one-way delay: 135.852 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.65 Mbit/s
95th percentile per-packet one-way delay: 135.852 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-11-16 08:34:55

End at: 2017-11-16 08:35:25

Below is generated by plot.py at 2017-11-16 10:52:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.47 Mbit/s

95th percentile per-packet one-way delay: 135.946 ms

Loss rate: 0.00%

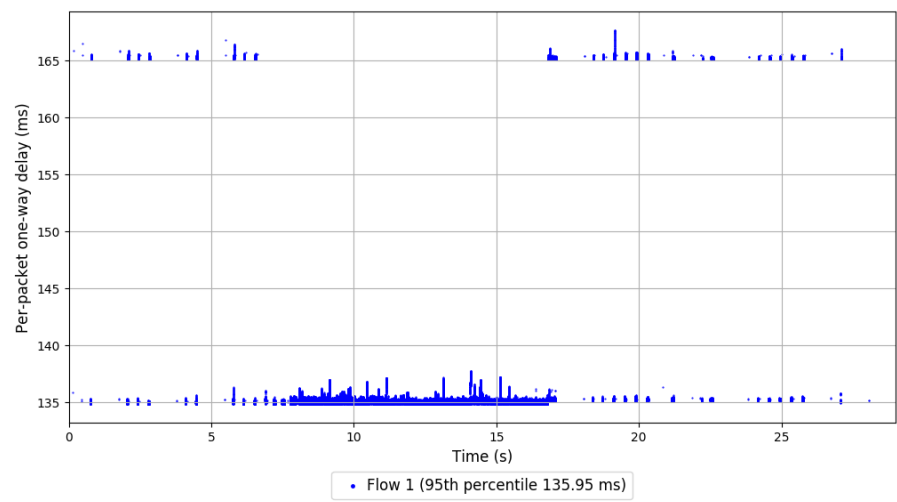
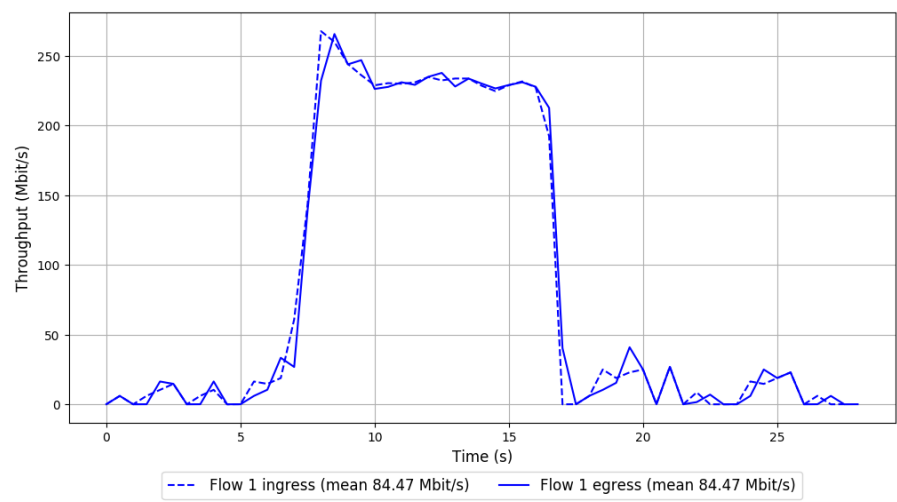
-- Flow 1:

Average throughput: 84.47 Mbit/s

95th percentile per-packet one-way delay: 135.946 ms

Loss rate: 0.00%

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

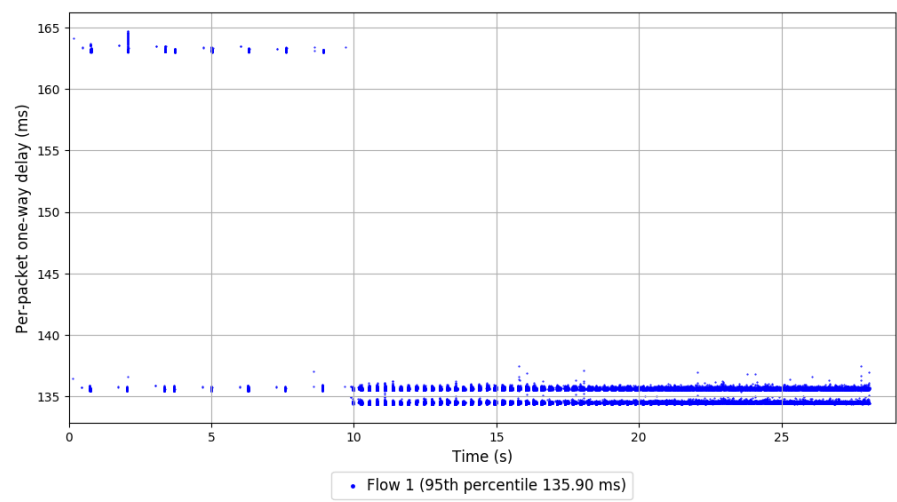
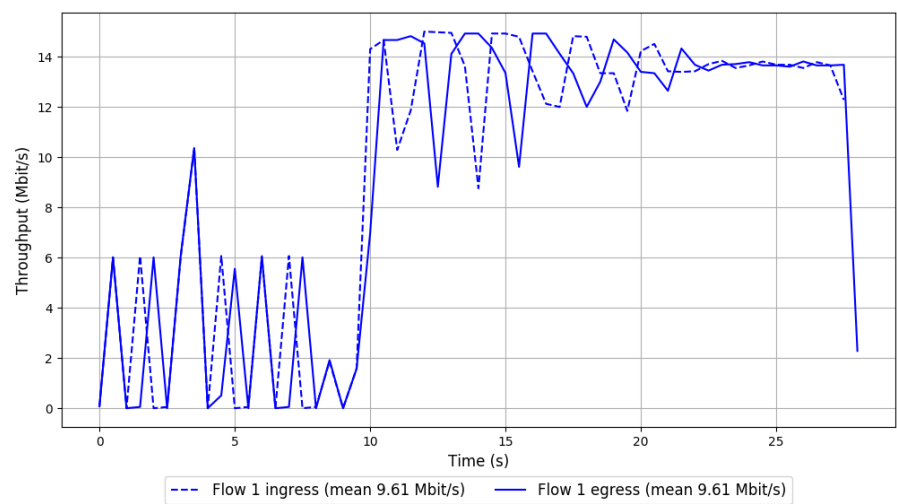


```
Run 4: Statistics of TaoVA-100x

Start at: 2017-11-16 08:46:12
End at: 2017-11-16 08:46:42

# Below is generated by plot.py at 2017-11-16 10:52:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.61 Mbit/s
95th percentile per-packet one-way delay: 135.897 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.61 Mbit/s
95th percentile per-packet one-way delay: 135.897 ms
Loss rate: 0.00%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-16 08:57:12

End at: 2017-11-16 08:57:42

Below is generated by plot.py at 2017-11-16 10:52:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.92 Mbit/s

95th percentile per-packet one-way delay: 163.164 ms

Loss rate: 0.00%

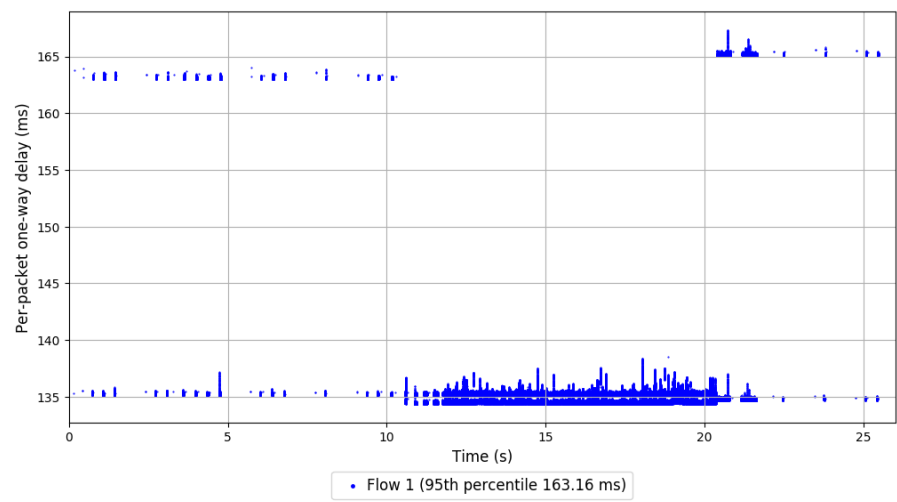
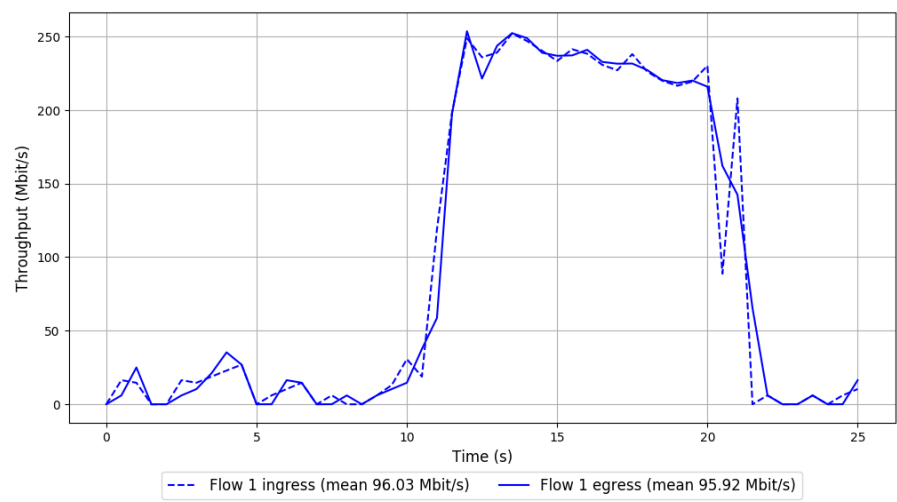
-- Flow 1:

Average throughput: 95.92 Mbit/s

95th percentile per-packet one-way delay: 163.164 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-16 09:08:28

End at: 2017-11-16 09:08:58

Below is generated by plot.py at 2017-11-16 10:52:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.10 Mbit/s

95th percentile per-packet one-way delay: 135.895 ms

Loss rate: 0.00%

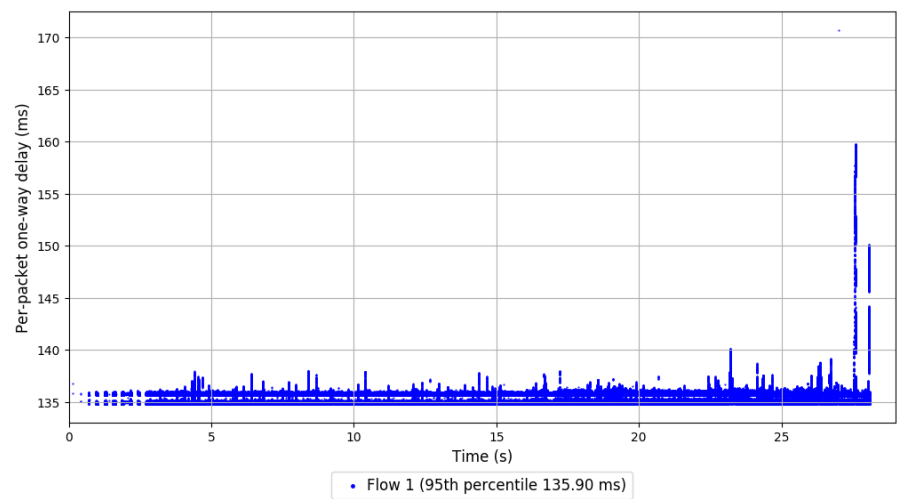
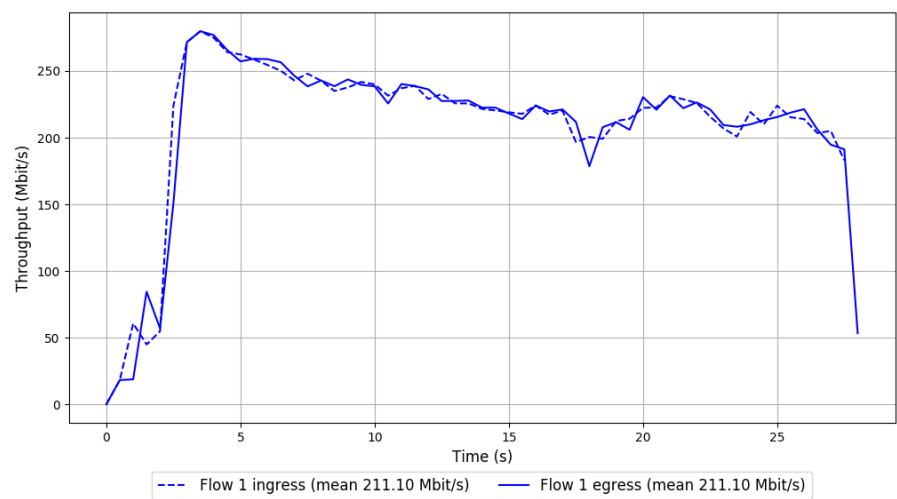
-- Flow 1:

Average throughput: 211.10 Mbit/s

95th percentile per-packet one-way delay: 135.895 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-16 09:19:53

End at: 2017-11-16 09:20:23

Below is generated by plot.py at 2017-11-16 10:52:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.13 Mbit/s

95th percentile per-packet one-way delay: 135.856 ms

Loss rate: 0.00%

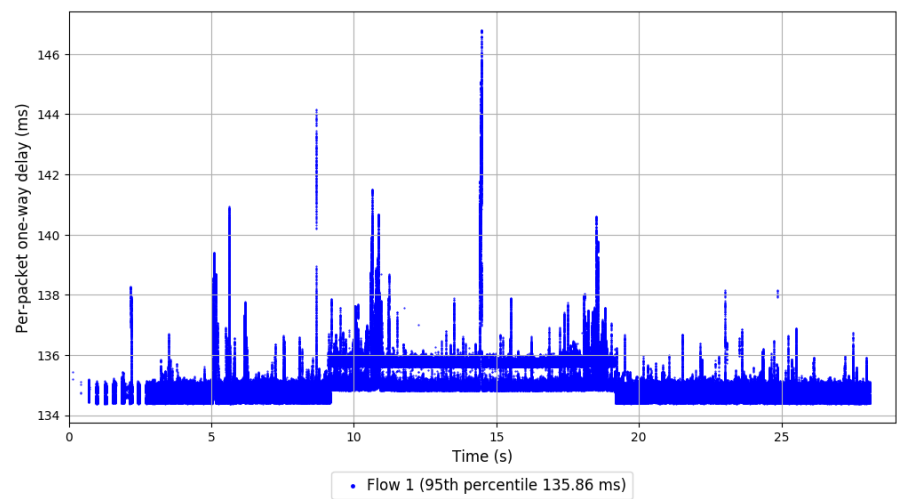
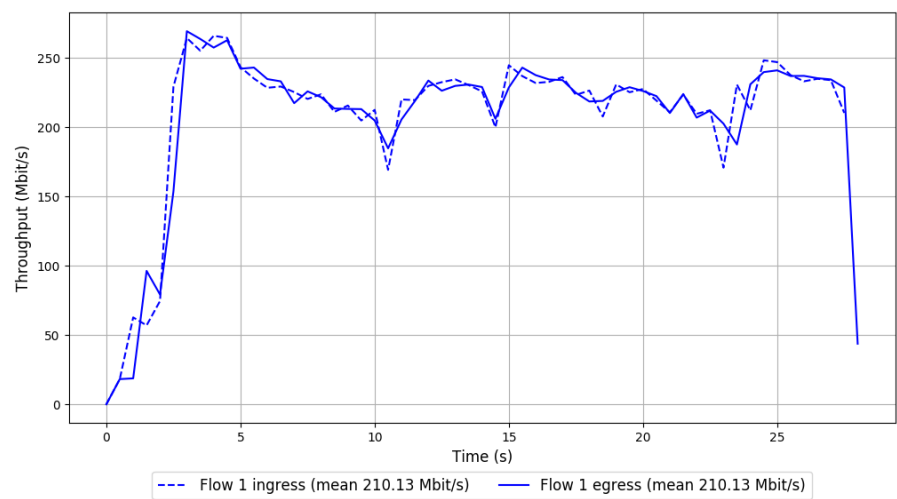
-- Flow 1:

Average throughput: 210.13 Mbit/s

95th percentile per-packet one-way delay: 135.856 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-16 09:31:31

End at: 2017-11-16 09:32:01

Below is generated by plot.py at 2017-11-16 10:52:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.19 Mbit/s

95th percentile per-packet one-way delay: 135.621 ms

Loss rate: 0.00%

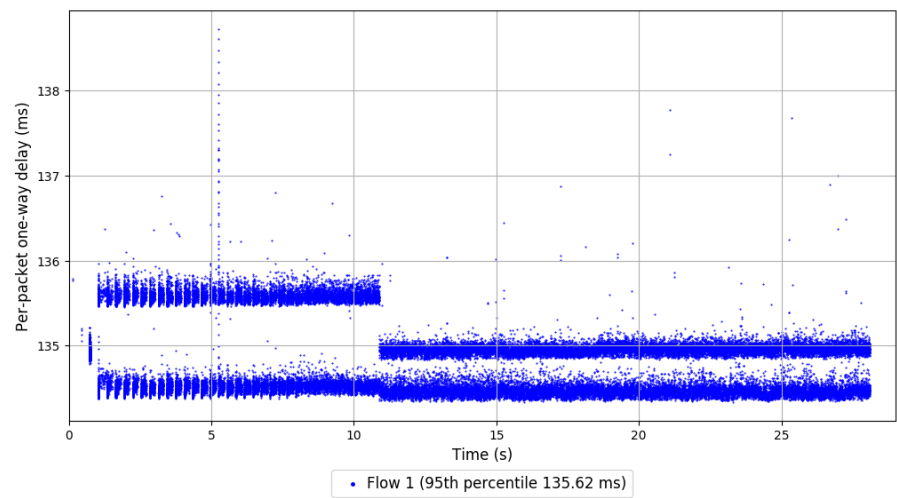
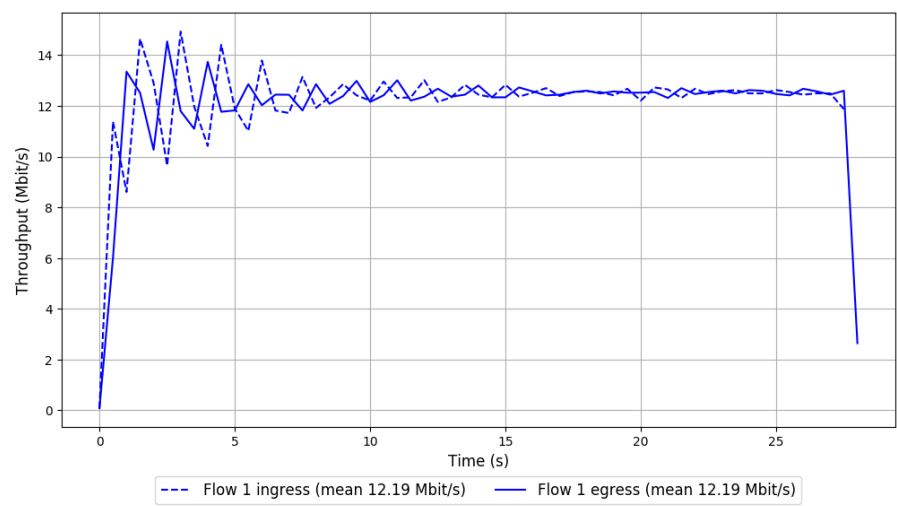
-- Flow 1:

Average throughput: 12.19 Mbit/s

95th percentile per-packet one-way delay: 135.621 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-16 09:42:46

End at: 2017-11-16 09:43:16

Below is generated by plot.py at 2017-11-16 10:52:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.59 Mbit/s

95th percentile per-packet one-way delay: 136.036 ms

Loss rate: 0.00%

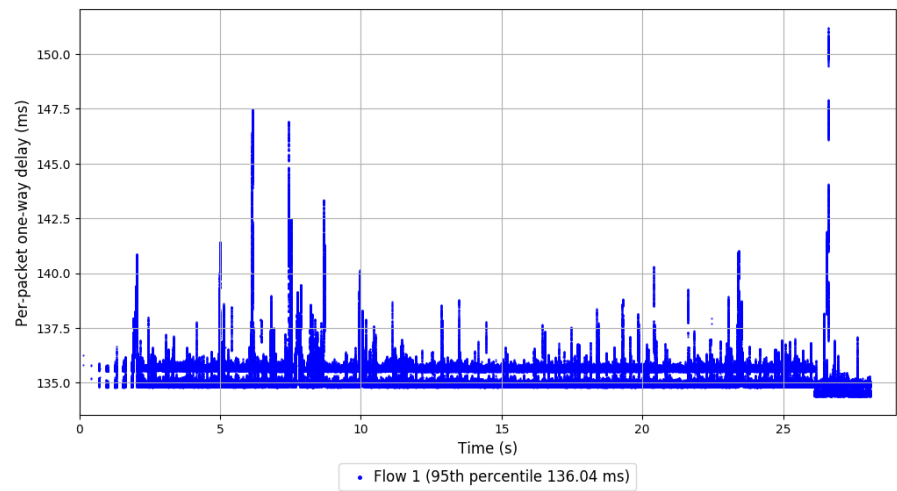
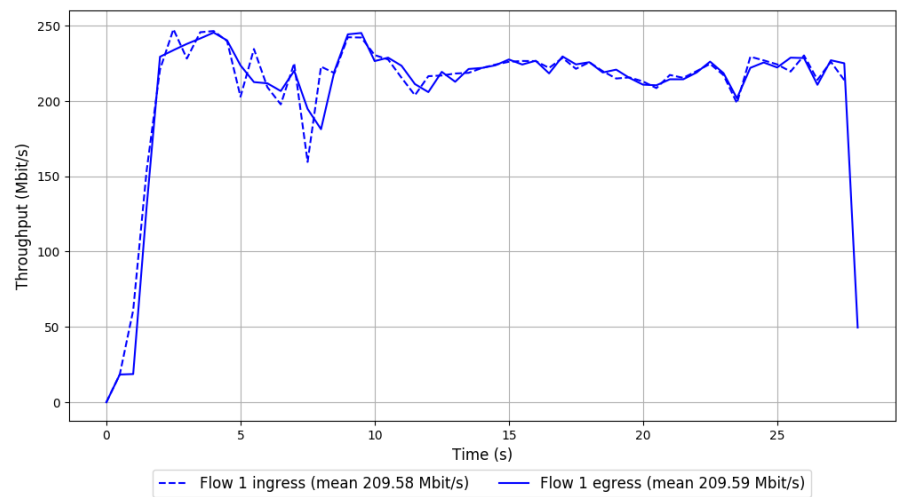
-- Flow 1:

Average throughput: 209.59 Mbit/s

95th percentile per-packet one-way delay: 136.036 ms

Loss rate: 0.00%

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

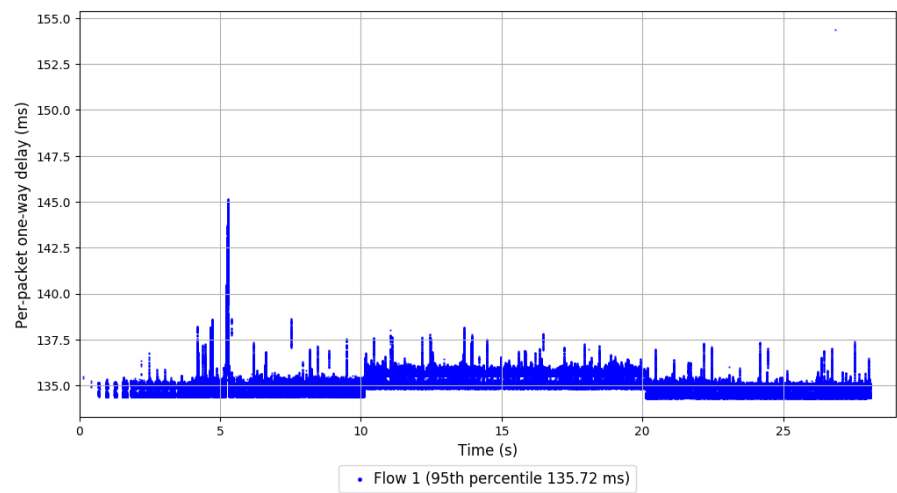
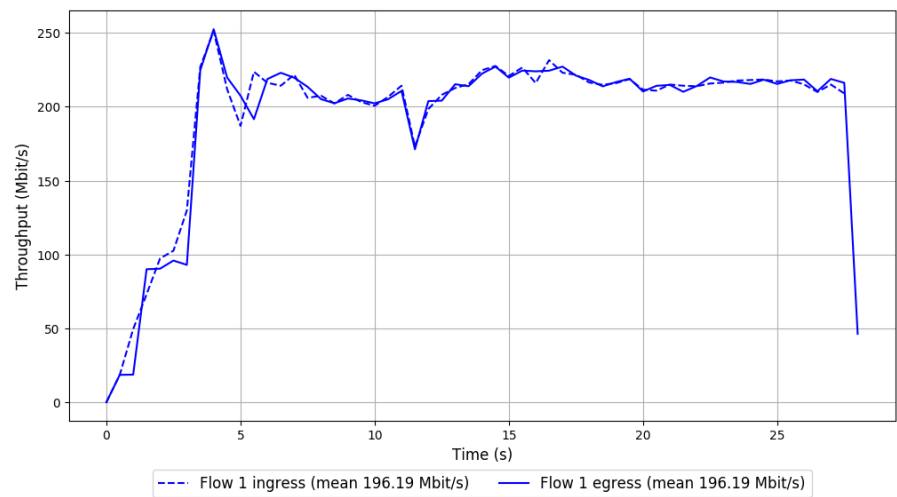


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-16 09:54:12
End at: 2017-11-16 09:54:42

# Below is generated by plot.py at 2017-11-16 10:52:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 196.19 Mbit/s
95th percentile per-packet one-way delay: 135.723 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 196.19 Mbit/s
95th percentile per-packet one-way delay: 135.723 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-16 08:14:20

End at: 2017-11-16 08:14:50

Below is generated by plot.py at 2017-11-16 10:52:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.22 Mbit/s

95th percentile per-packet one-way delay: 140.234 ms

Loss rate: 0.02%

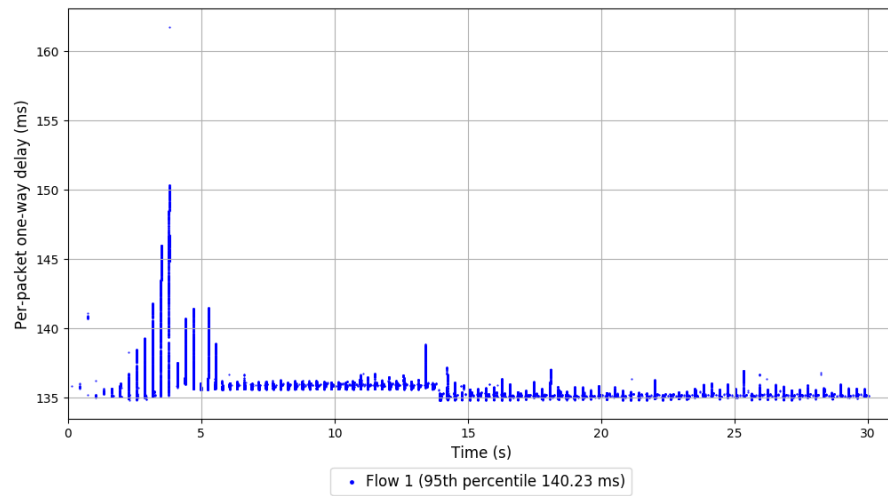
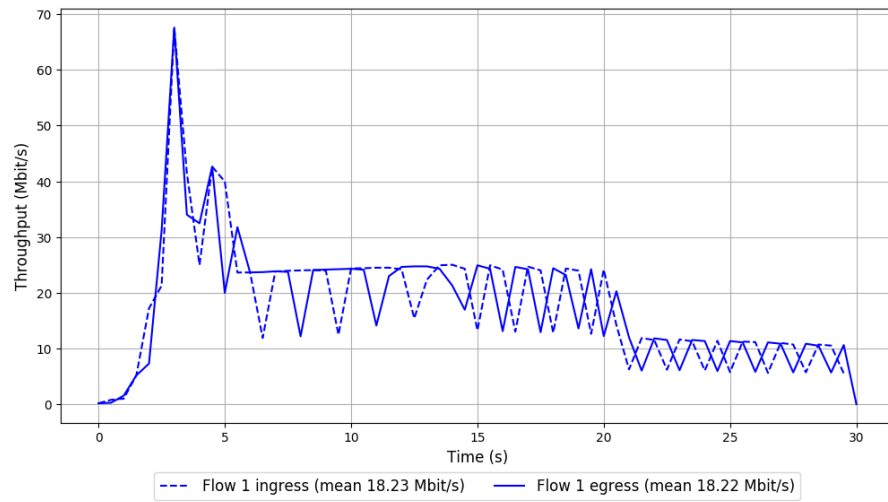
-- Flow 1:

Average throughput: 18.22 Mbit/s

95th percentile per-packet one-way delay: 140.234 ms

Loss rate: 0.02%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-16 08:25:24

End at: 2017-11-16 08:25:54

Below is generated by plot.py at 2017-11-16 10:52:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.06 Mbit/s

95th percentile per-packet one-way delay: 136.694 ms

Loss rate: 0.00%

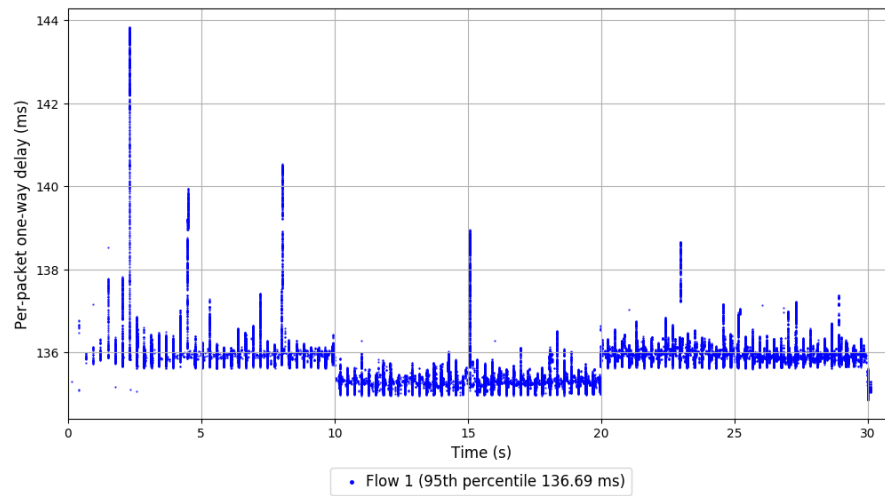
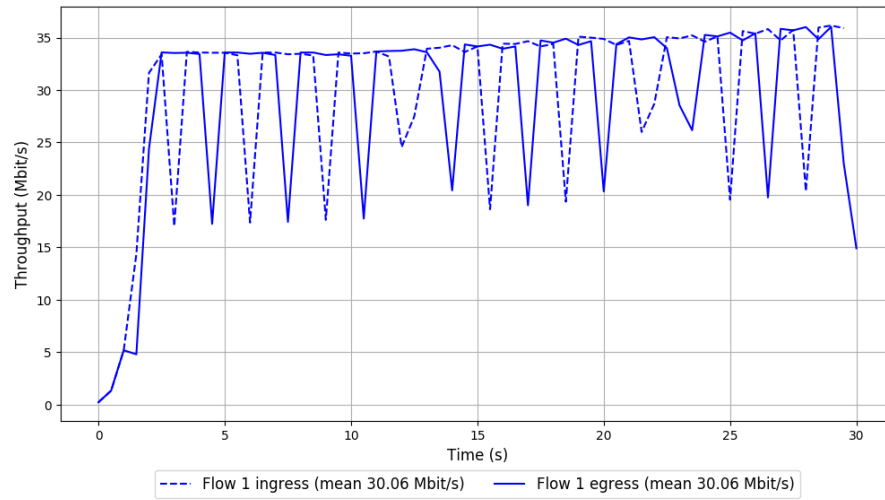
-- Flow 1:

Average throughput: 30.06 Mbit/s

95th percentile per-packet one-way delay: 136.694 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-16 08:36:29

End at: 2017-11-16 08:36:59

Below is generated by plot.py at 2017-11-16 10:52:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.07 Mbit/s

95th percentile per-packet one-way delay: 165.463 ms

Loss rate: 0.00%

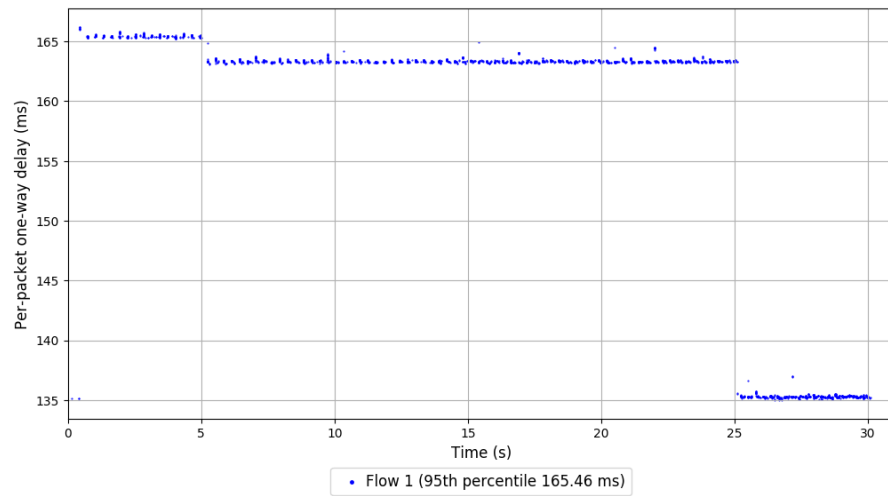
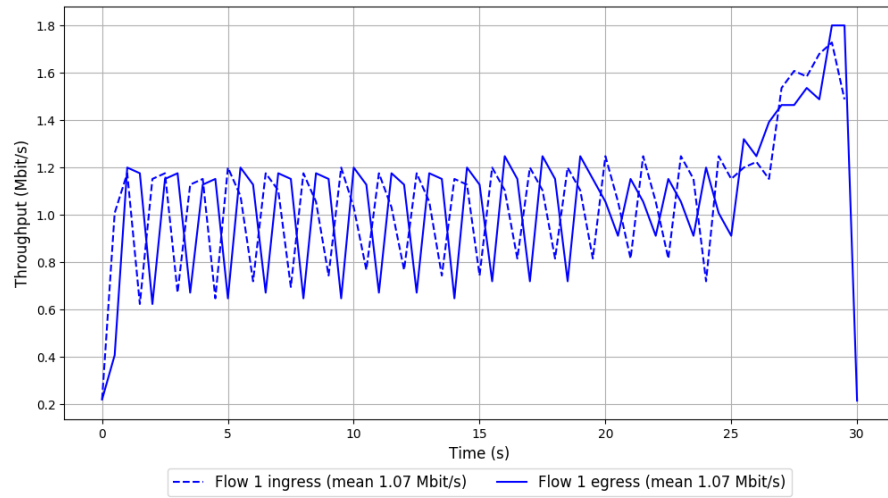
-- Flow 1:

Average throughput: 1.07 Mbit/s

95th percentile per-packet one-way delay: 165.463 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-16 08:47:40

End at: 2017-11-16 08:48:10

Below is generated by plot.py at 2017-11-16 10:52:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.22 Mbit/s

95th percentile per-packet one-way delay: 164.570 ms

Loss rate: 0.01%

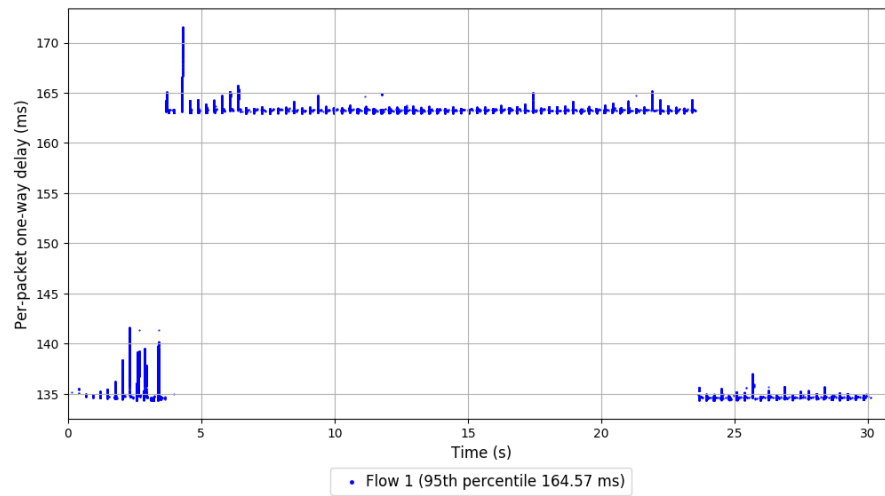
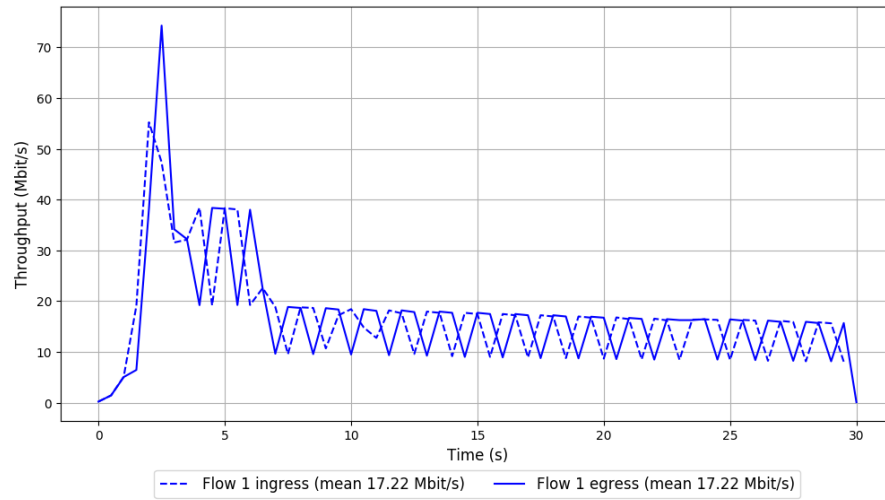
-- Flow 1:

Average throughput: 17.22 Mbit/s

95th percentile per-packet one-way delay: 164.570 ms

Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-16 08:58:47

End at: 2017-11-16 08:59:17

Below is generated by plot.py at 2017-11-16 10:52:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.13 Mbit/s

95th percentile per-packet one-way delay: 163.442 ms

Loss rate: 0.15%

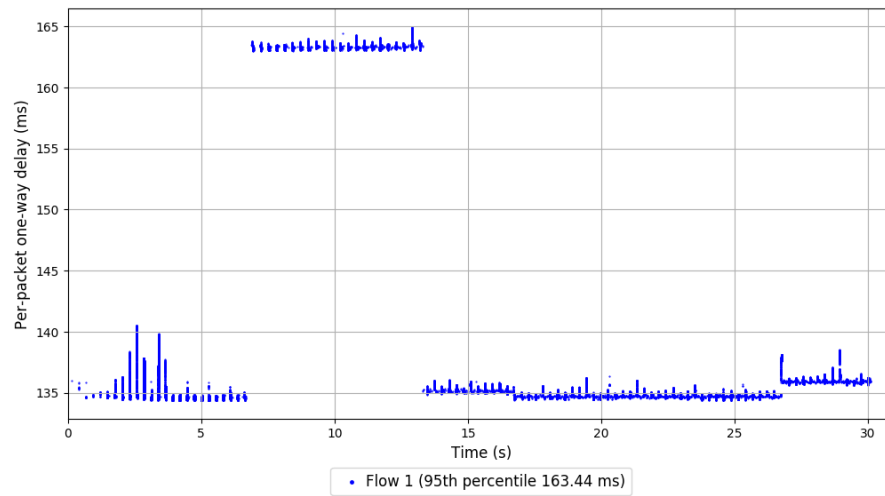
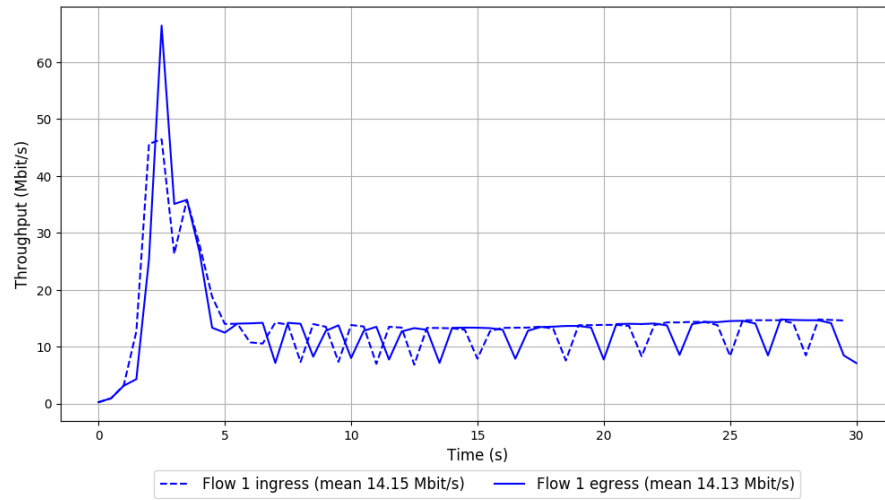
-- Flow 1:

Average throughput: 14.13 Mbit/s

95th percentile per-packet one-way delay: 163.442 ms

Loss rate: 0.15%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-16 09:10:13

End at: 2017-11-16 09:10:43

Below is generated by plot.py at 2017-11-16 10:52:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.67 Mbit/s

95th percentile per-packet one-way delay: 143.084 ms

Loss rate: 0.00%

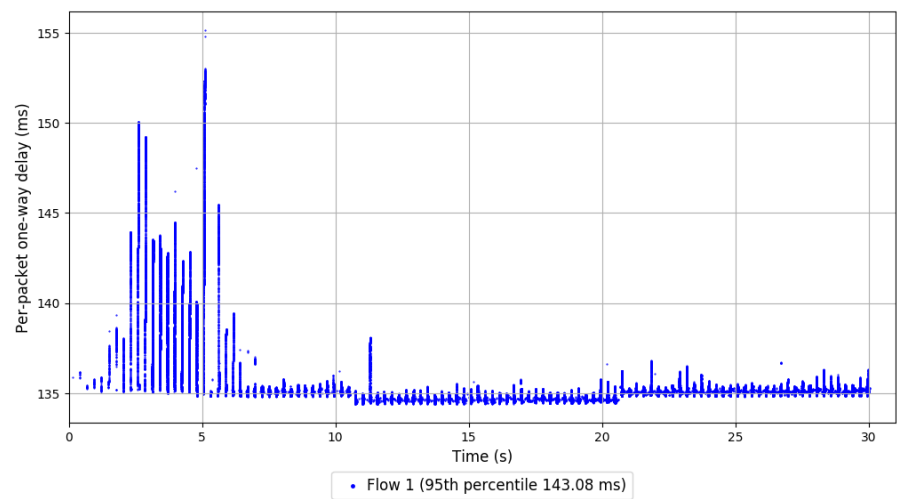
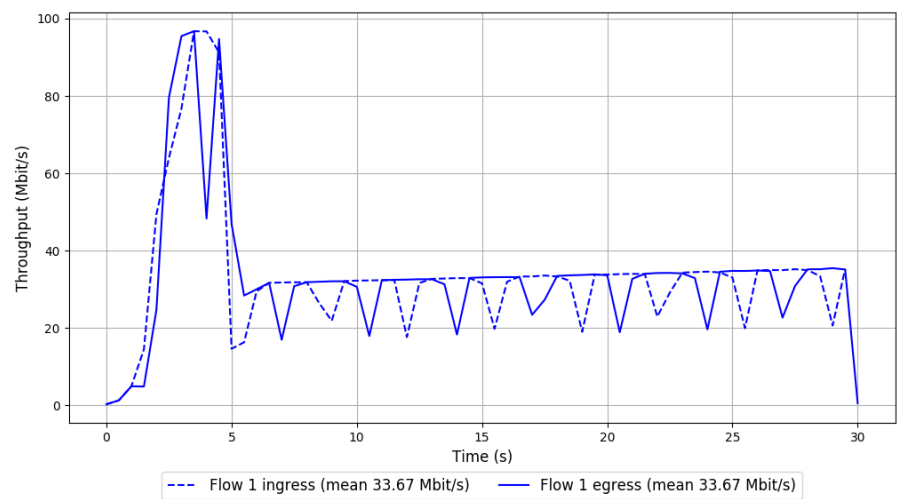
-- Flow 1:

Average throughput: 33.67 Mbit/s

95th percentile per-packet one-way delay: 143.084 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-16 09:21:40

End at: 2017-11-16 09:22:10

Below is generated by plot.py at 2017-11-16 10:52:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.73 Mbit/s

95th percentile per-packet one-way delay: 136.371 ms

Loss rate: 0.01%

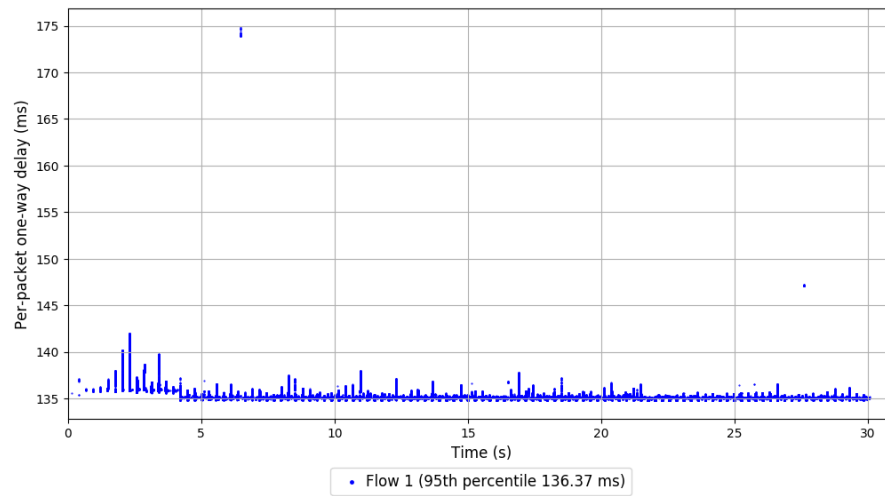
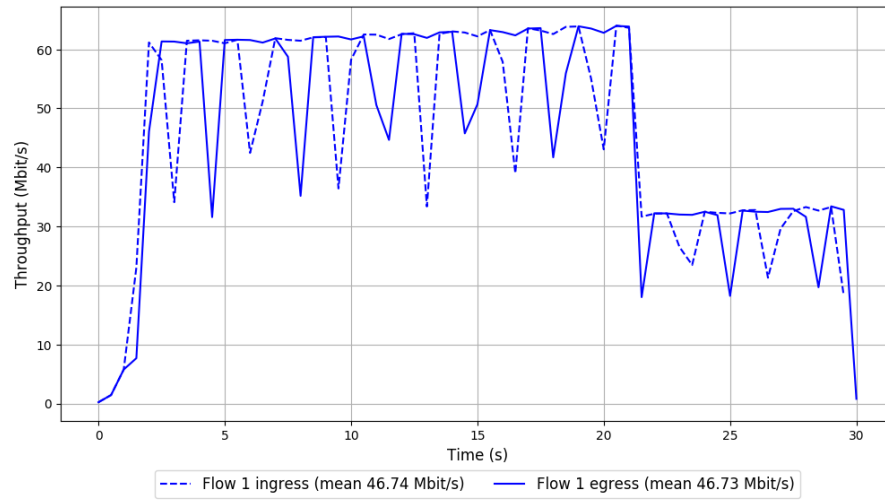
-- Flow 1:

Average throughput: 46.73 Mbit/s

95th percentile per-packet one-way delay: 136.371 ms

Loss rate: 0.01%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-16 09:32:58

End at: 2017-11-16 09:33:28

Below is generated by plot.py at 2017-11-16 10:52:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.47 Mbit/s

95th percentile per-packet one-way delay: 138.471 ms

Loss rate: 0.02%

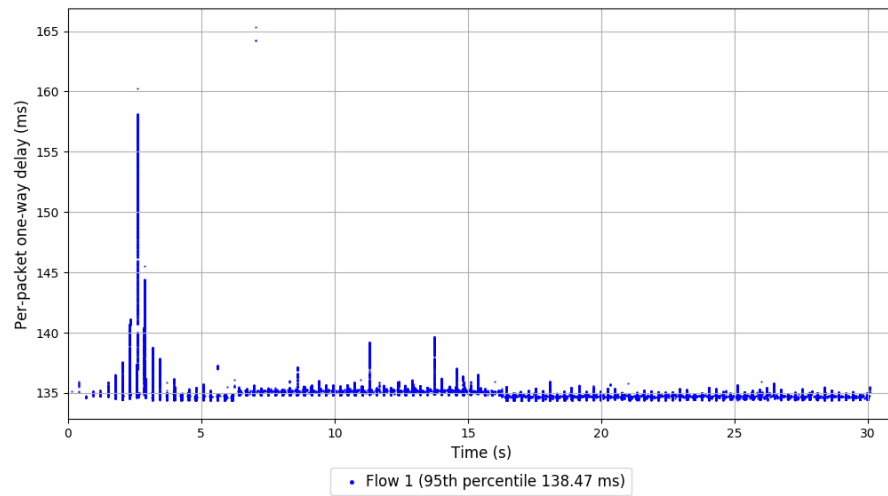
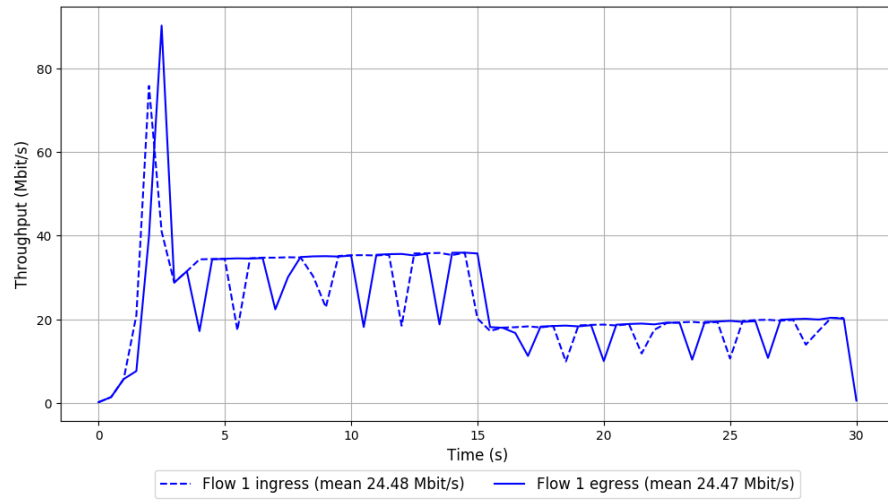
-- Flow 1:

Average throughput: 24.47 Mbit/s

95th percentile per-packet one-way delay: 138.471 ms

Loss rate: 0.02%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-16 09:44:32

End at: 2017-11-16 09:45:02

Below is generated by plot.py at 2017-11-16 10:52:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.50 Mbit/s

95th percentile per-packet one-way delay: 140.391 ms

Loss rate: 0.01%

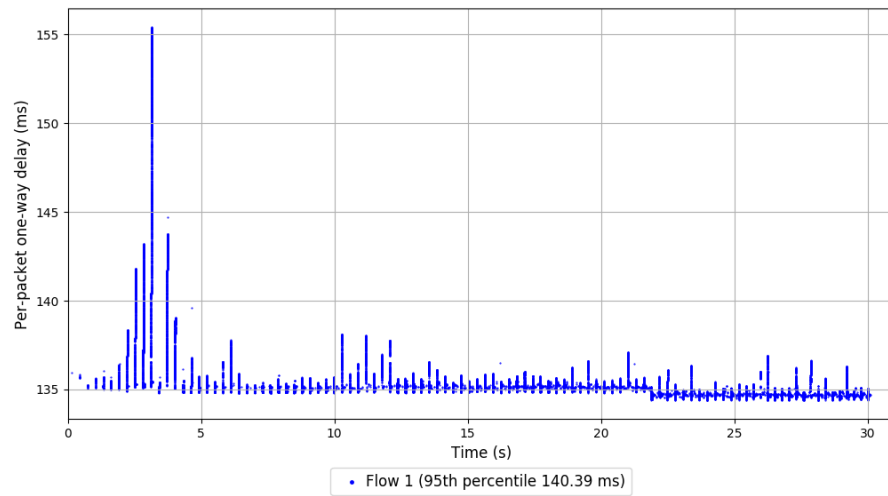
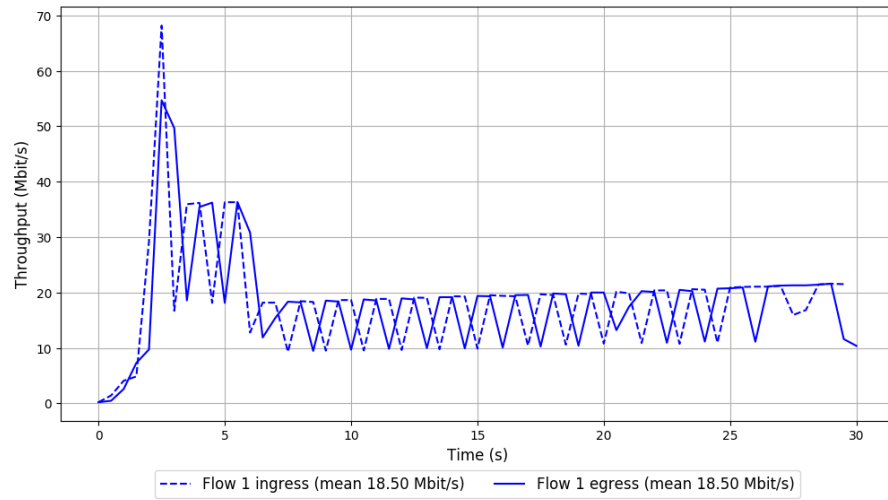
-- Flow 1:

Average throughput: 18.50 Mbit/s

95th percentile per-packet one-way delay: 140.391 ms

Loss rate: 0.01%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-16 09:55:56

End at: 2017-11-16 09:56:26

Below is generated by plot.py at 2017-11-16 10:52:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.12 Mbit/s

95th percentile per-packet one-way delay: 136.774 ms

Loss rate: 0.01%

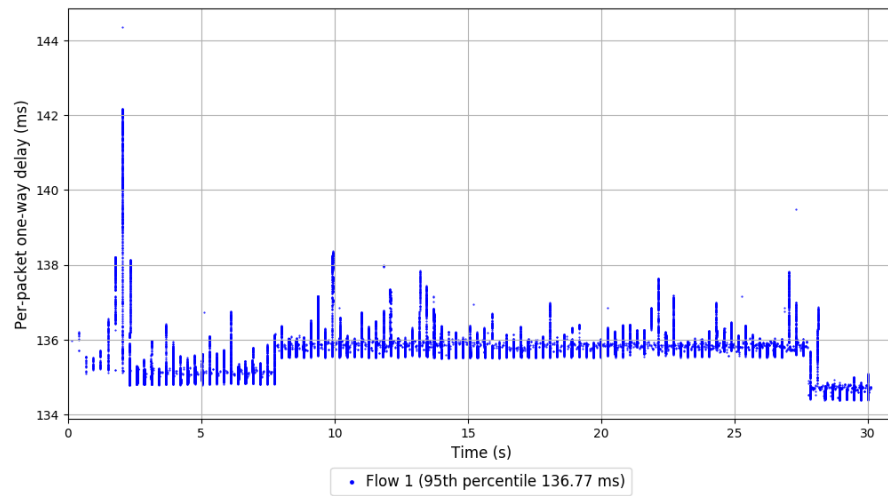
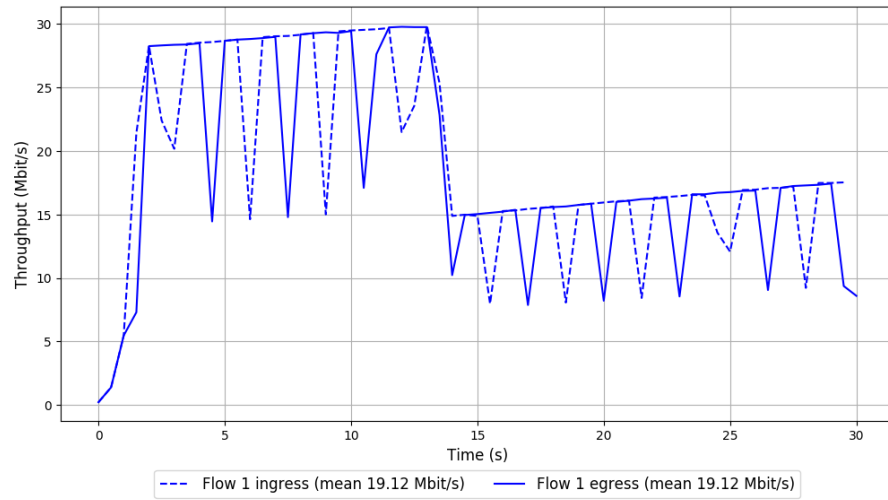
-- Flow 1:

Average throughput: 19.12 Mbit/s

95th percentile per-packet one-way delay: 136.774 ms

Loss rate: 0.01%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-11-16 08:08:28

End at: 2017-11-16 08:08:58

Below is generated by plot.py at 2017-11-16 10:52:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 145.11 Mbit/s

95th percentile per-packet one-way delay: 334.049 ms

Loss rate: 7.34%

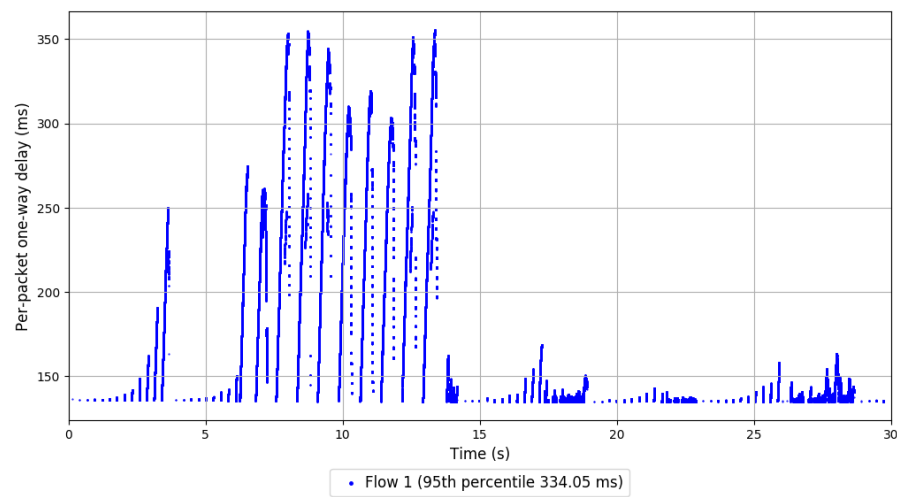
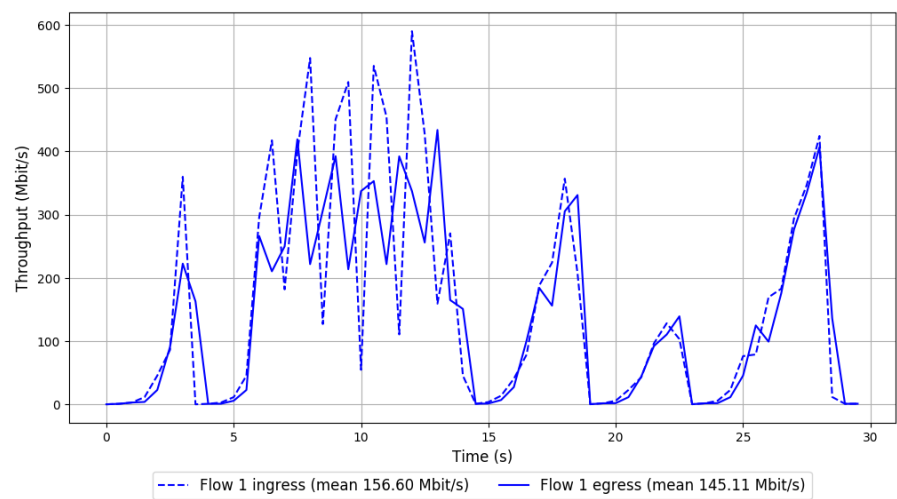
-- Flow 1:

Average throughput: 145.11 Mbit/s

95th percentile per-packet one-way delay: 334.049 ms

Loss rate: 7.34%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-16 08:20:02

End at: 2017-11-16 08:20:32

Below is generated by plot.py at 2017-11-16 10:52:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.13 Mbit/s

95th percentile per-packet one-way delay: 153.906 ms

Loss rate: 0.01%

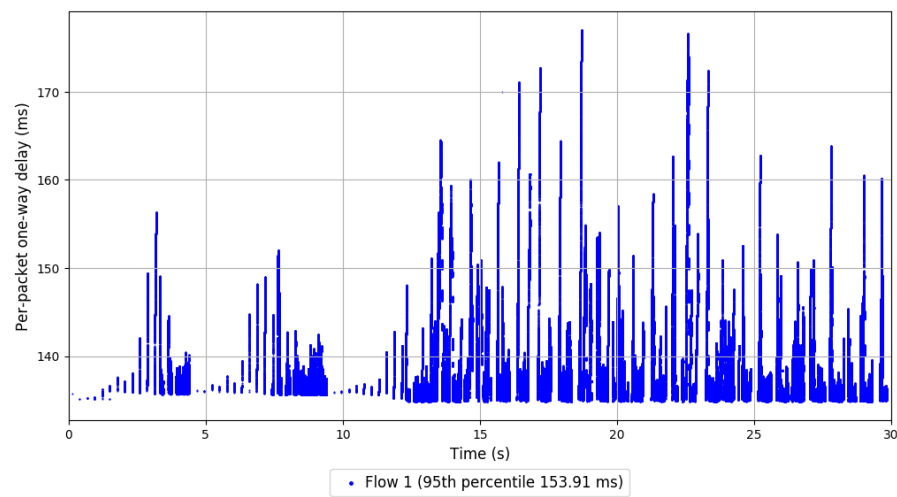
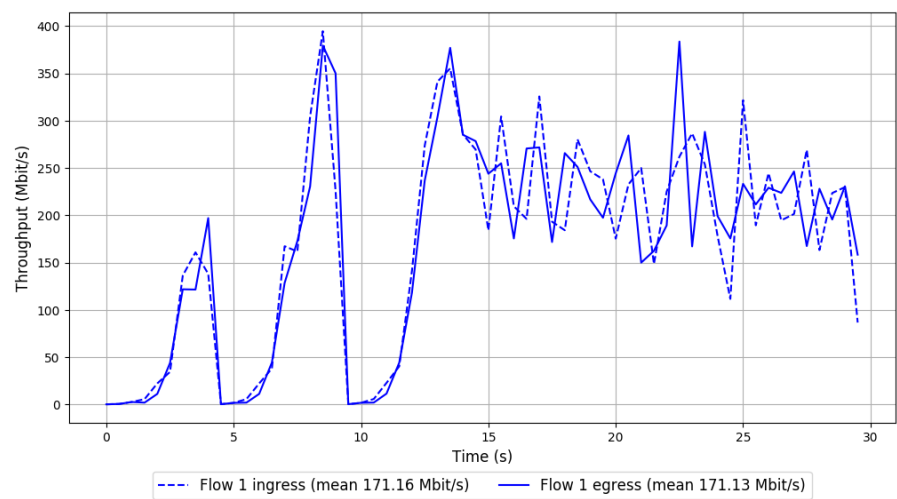
-- Flow 1:

Average throughput: 171.13 Mbit/s

95th percentile per-packet one-way delay: 153.906 ms

Loss rate: 0.01%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-16 08:30:47

End at: 2017-11-16 08:31:17

Below is generated by plot.py at 2017-11-16 10:52:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.18 Mbit/s

95th percentile per-packet one-way delay: 225.390 ms

Loss rate: 0.88%

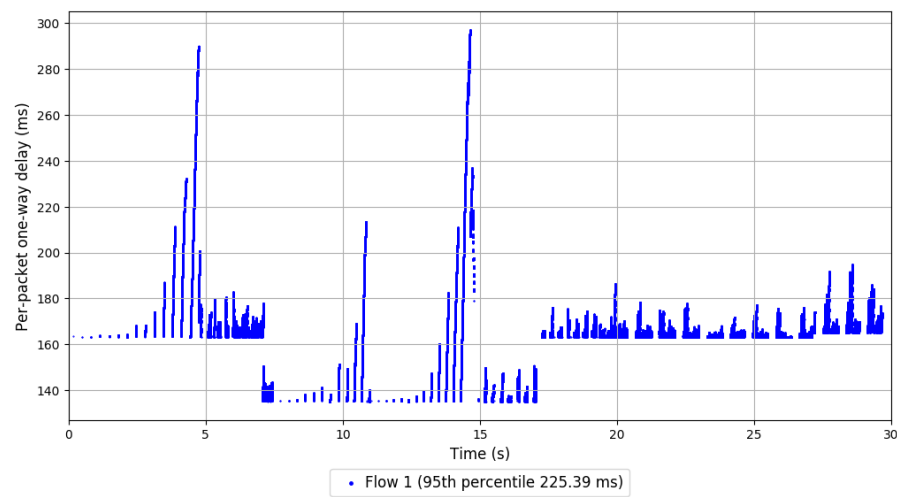
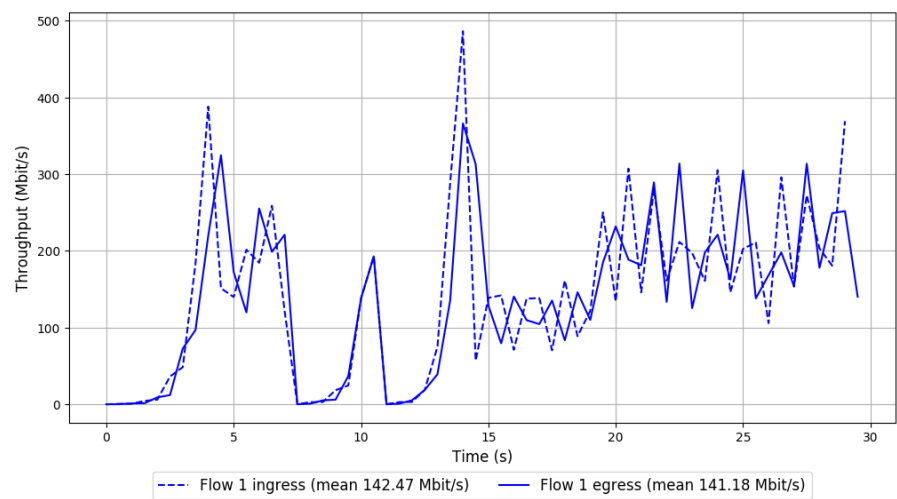
-- Flow 1:

Average throughput: 141.18 Mbit/s

95th percentile per-packet one-way delay: 225.390 ms

Loss rate: 0.88%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-16 08:42:05

End at: 2017-11-16 08:42:35

Below is generated by plot.py at 2017-11-16 10:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 139.34 Mbit/s

95th percentile per-packet one-way delay: 269.570 ms

Loss rate: 1.07%

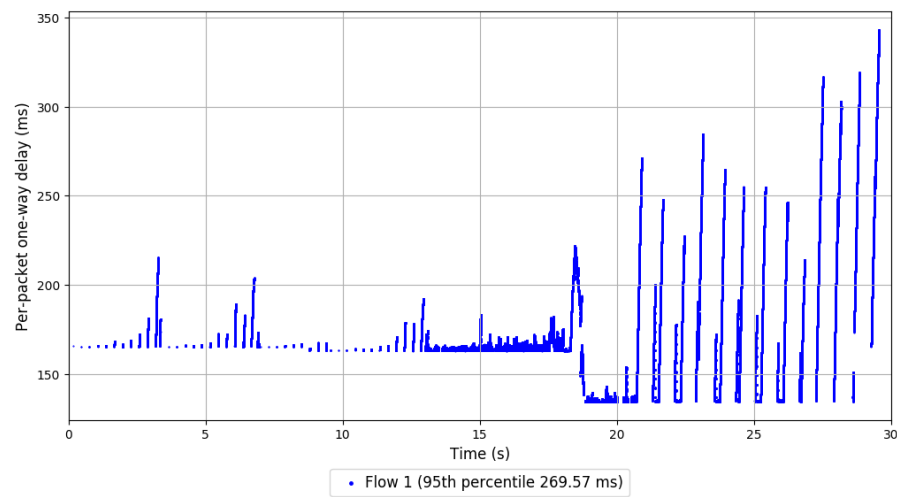
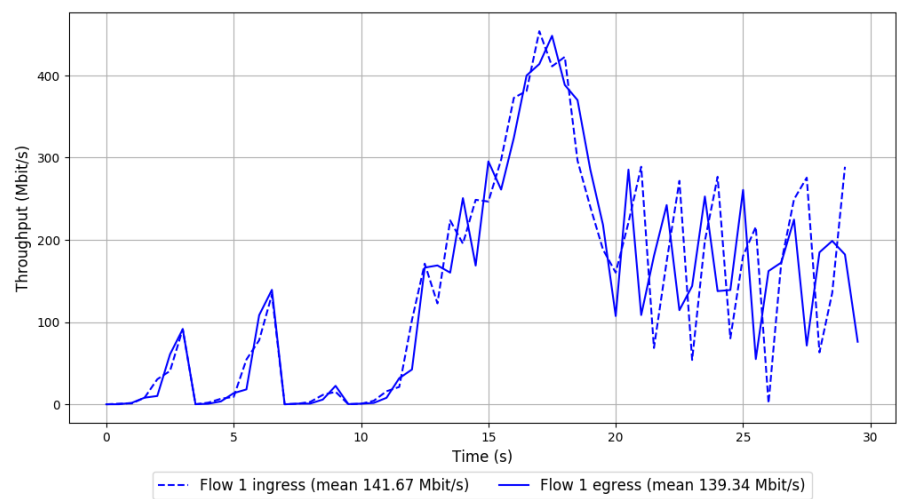
-- Flow 1:

Average throughput: 139.34 Mbit/s

95th percentile per-packet one-way delay: 269.570 ms

Loss rate: 1.07%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-16 08:52:59

End at: 2017-11-16 08:53:29

Below is generated by plot.py at 2017-11-16 10:54:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.13 Mbit/s

95th percentile per-packet one-way delay: 184.035 ms

Loss rate: 0.05%

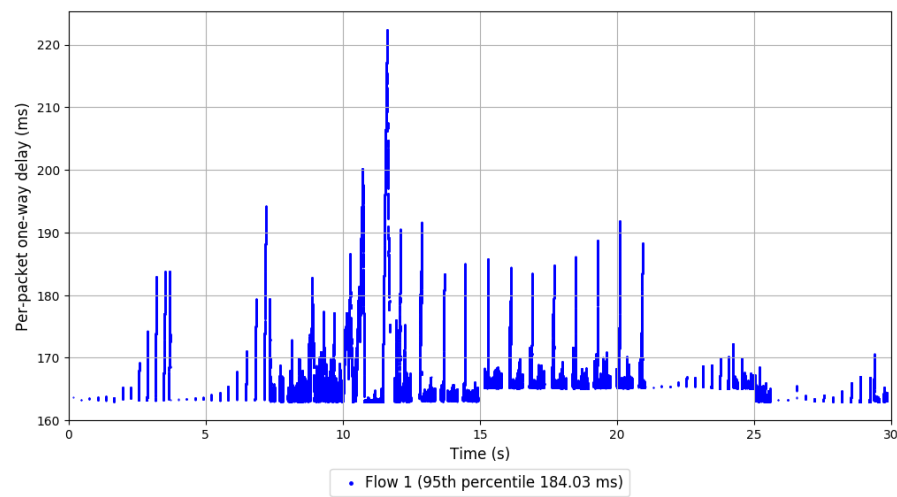
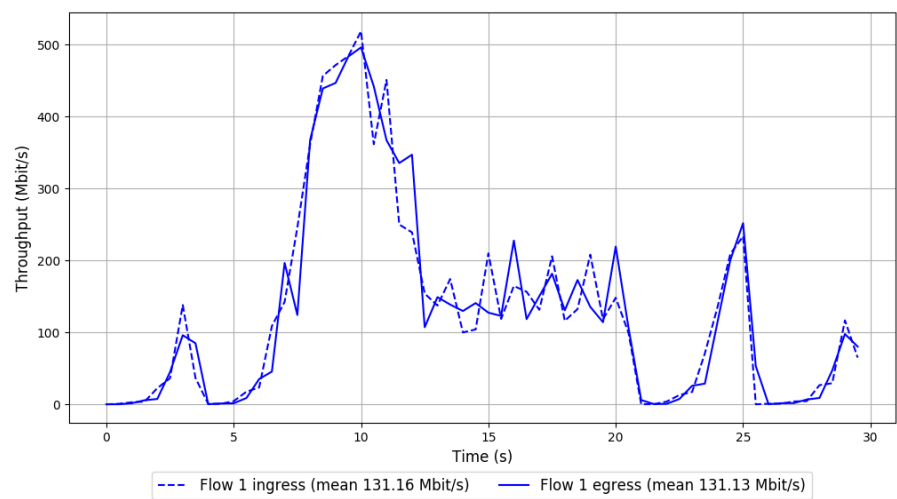
-- Flow 1:

Average throughput: 131.13 Mbit/s

95th percentile per-packet one-way delay: 184.035 ms

Loss rate: 0.05%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-16 09:04:33

End at: 2017-11-16 09:05:03

Below is generated by plot.py at 2017-11-16 10:54:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 127.80 Mbit/s

95th percentile per-packet one-way delay: 164.159 ms

Loss rate: 0.01%

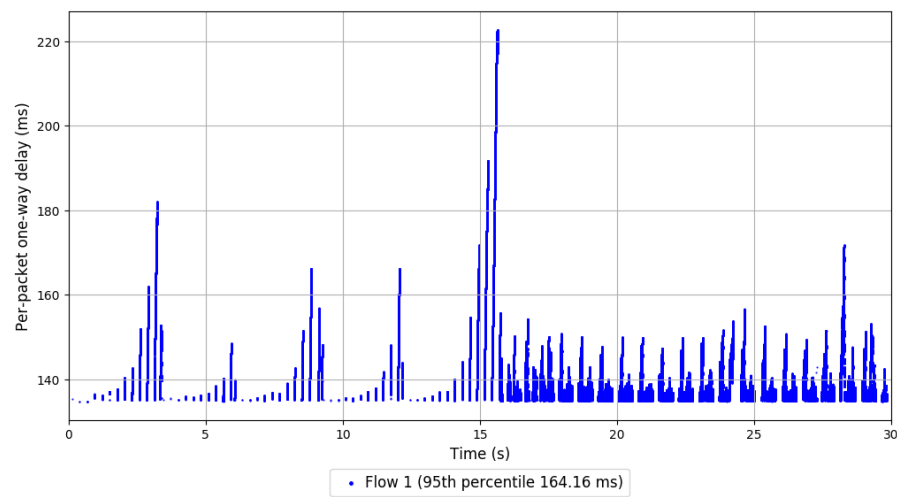
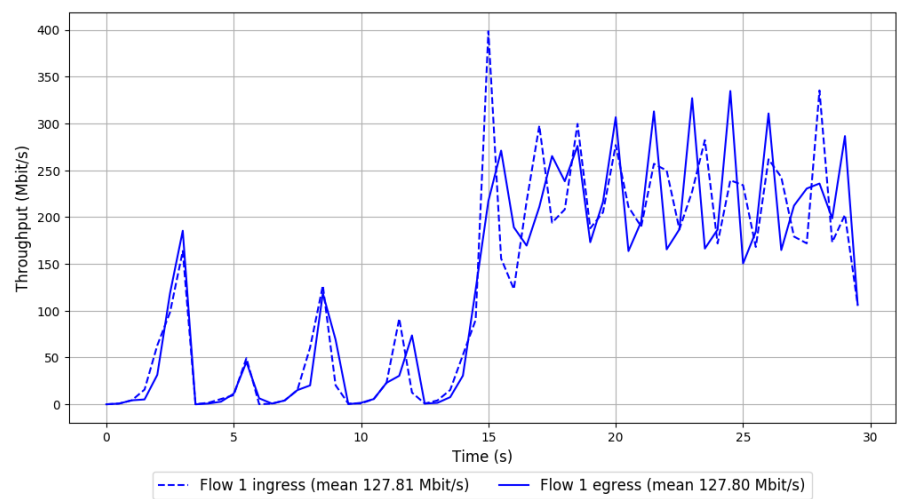
-- Flow 1:

Average throughput: 127.80 Mbit/s

95th percentile per-packet one-way delay: 164.159 ms

Loss rate: 0.01%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-16 09:15:52

End at: 2017-11-16 09:16:22

Below is generated by plot.py at 2017-11-16 10:55:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.13 Mbit/s

95th percentile per-packet one-way delay: 229.884 ms

Loss rate: 0.65%

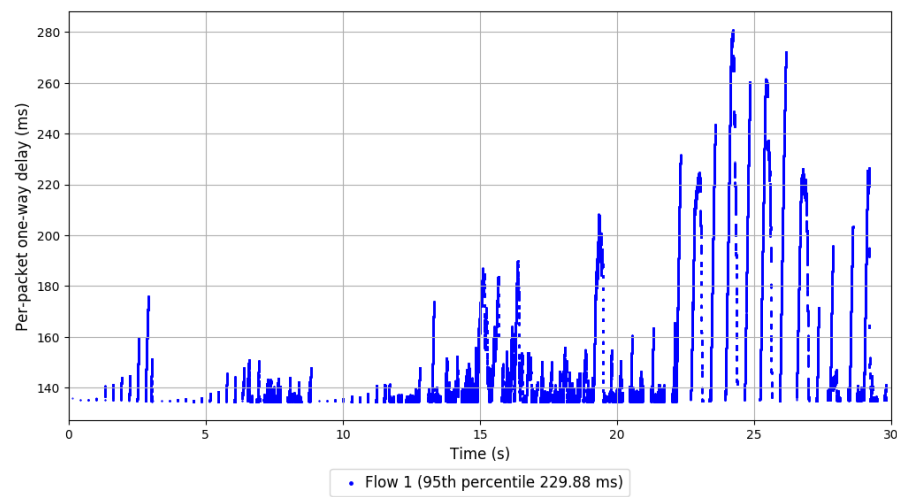
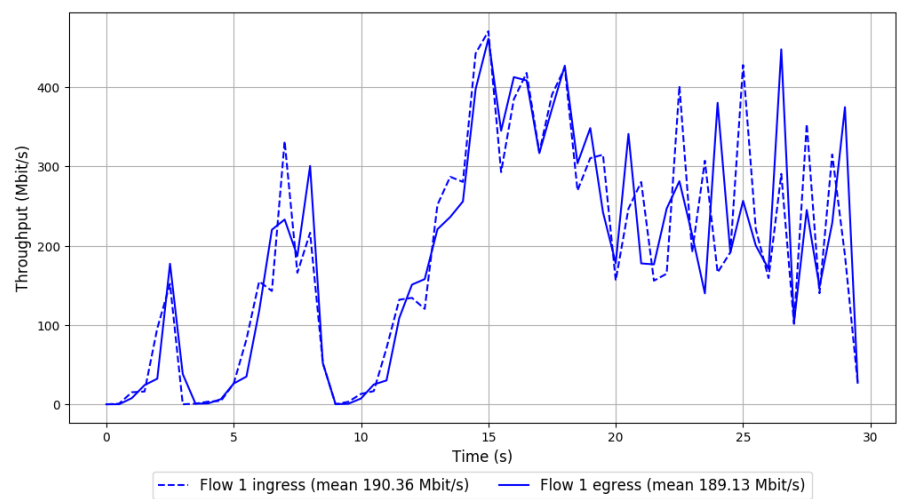
-- Flow 1:

Average throughput: 189.13 Mbit/s

95th percentile per-packet one-way delay: 229.884 ms

Loss rate: 0.65%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-16 09:27:27

End at: 2017-11-16 09:27:57

Below is generated by plot.py at 2017-11-16 10:55:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.32 Mbit/s

95th percentile per-packet one-way delay: 246.811 ms

Loss rate: 3.31%

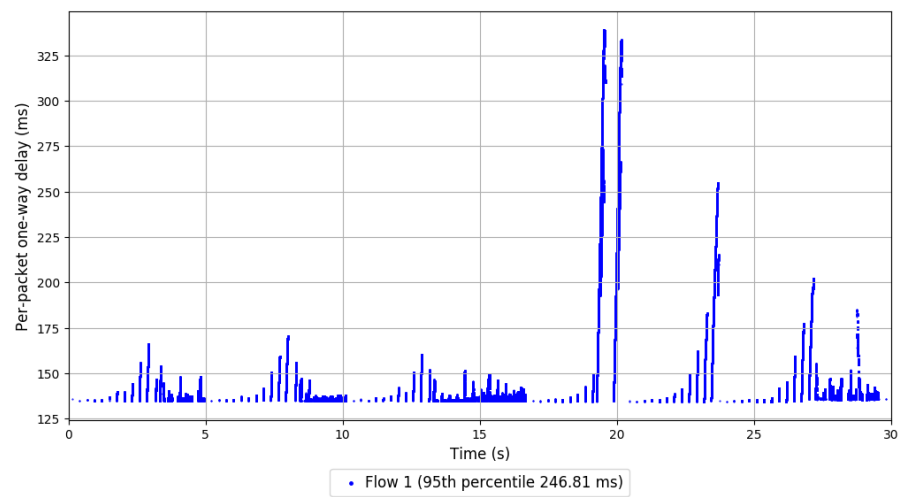
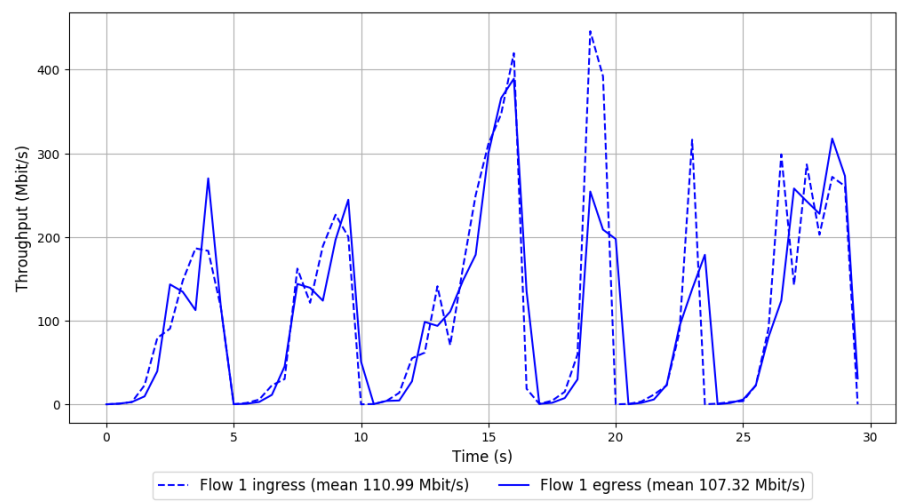
-- Flow 1:

Average throughput: 107.32 Mbit/s

95th percentile per-packet one-way delay: 246.811 ms

Loss rate: 3.31%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-16 09:38:41

End at: 2017-11-16 09:39:11

Below is generated by plot.py at 2017-11-16 10:55:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 129.42 Mbit/s

95th percentile per-packet one-way delay: 202.582 ms

Loss rate: 2.46%

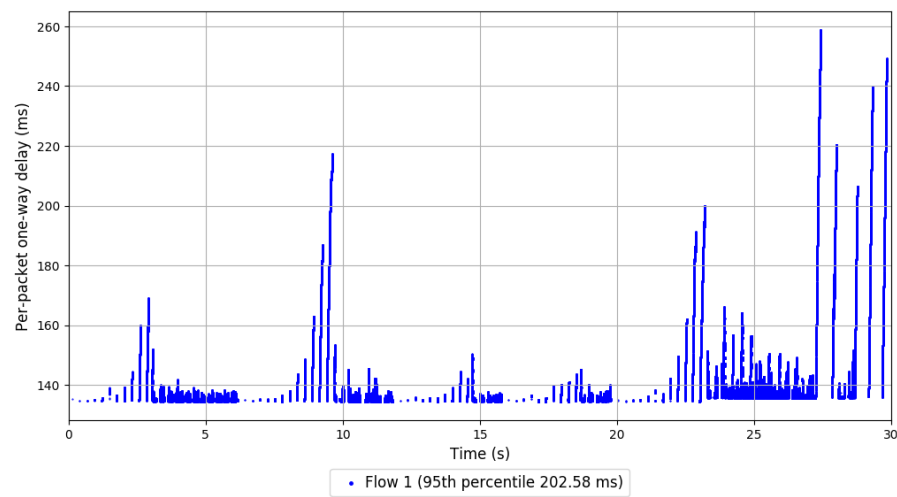
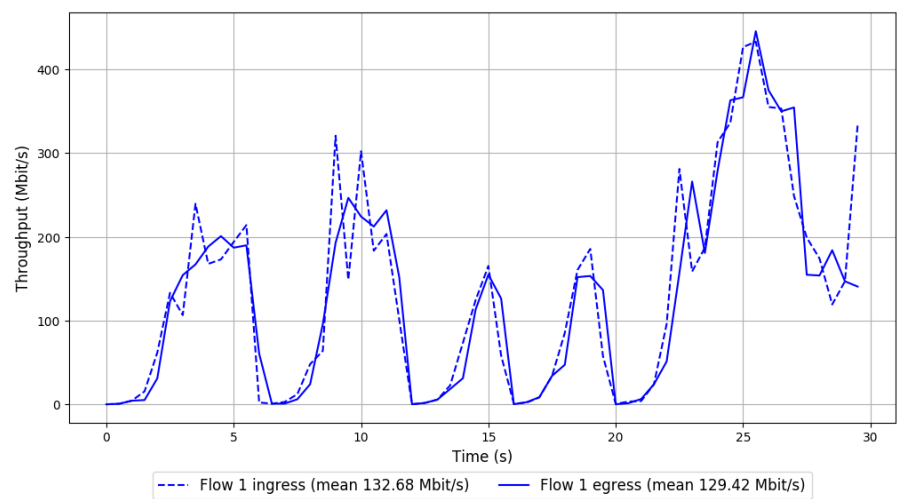
-- Flow 1:

Average throughput: 129.42 Mbit/s

95th percentile per-packet one-way delay: 202.582 ms

Loss rate: 2.46%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-16 09:50:08

End at: 2017-11-16 09:50:38

Below is generated by plot.py at 2017-11-16 10:55:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 136.06 Mbit/s

95th percentile per-packet one-way delay: 246.048 ms

Loss rate: 1.00%

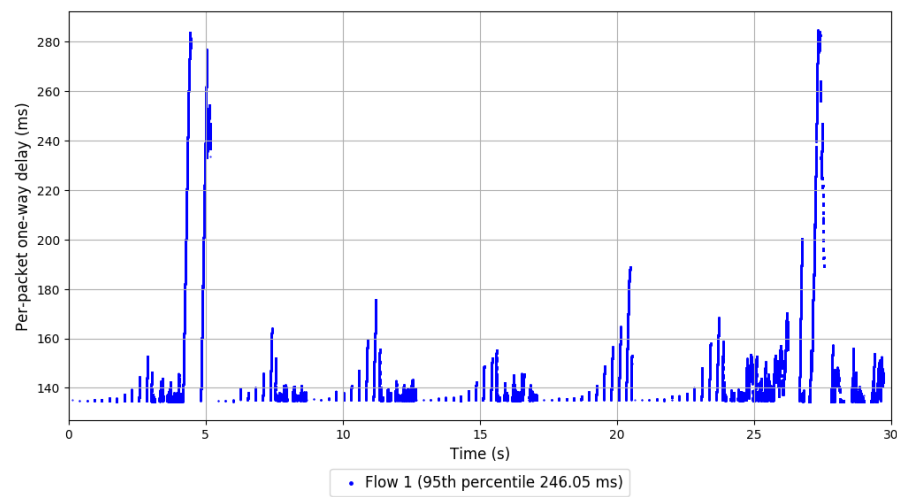
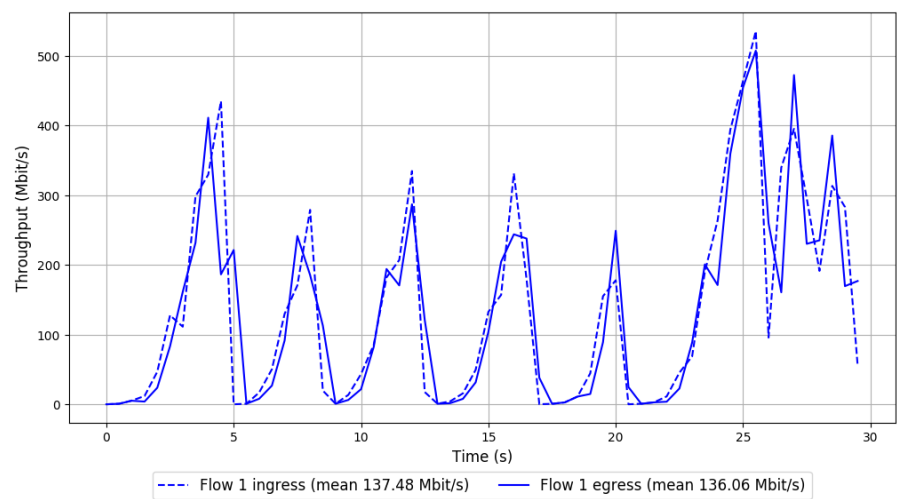
-- Flow 1:

Average throughput: 136.06 Mbit/s

95th percentile per-packet one-way delay: 246.048 ms

Loss rate: 1.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-11-16 08:16:37

End at: 2017-11-16 08:17:07

Below is generated by plot.py at 2017-11-16 10:55:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.43 Mbit/s

95th percentile per-packet one-way delay: 136.048 ms

Loss rate: 0.00%

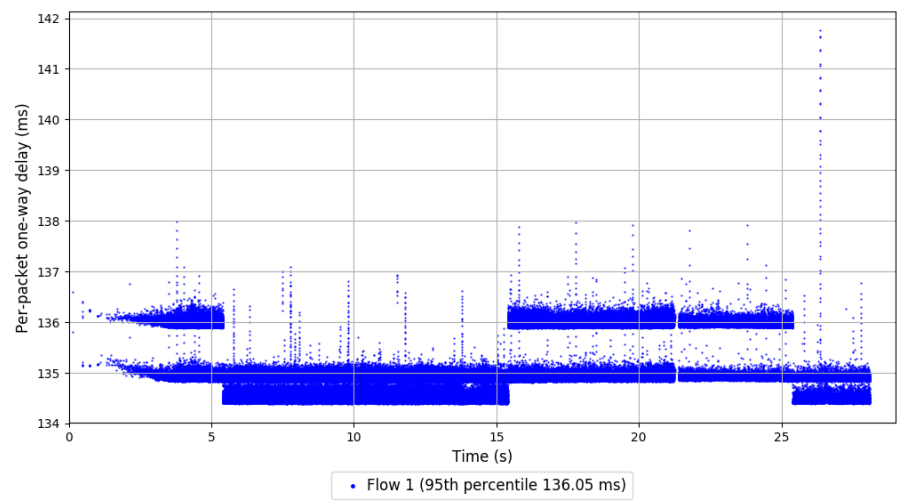
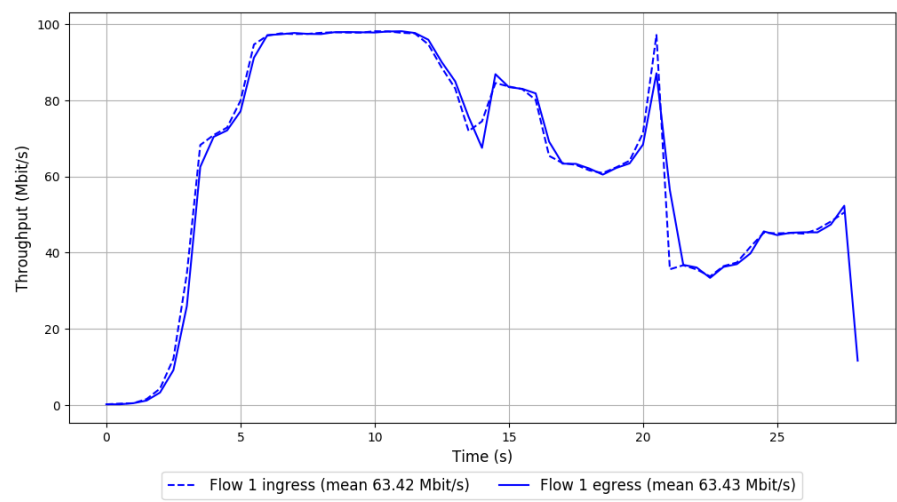
-- Flow 1:

Average throughput: 63.43 Mbit/s

95th percentile per-packet one-way delay: 136.048 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-16 08:27:40

End at: 2017-11-16 08:28:10

Below is generated by plot.py at 2017-11-16 10:56:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.43 Mbit/s

95th percentile per-packet one-way delay: 135.780 ms

Loss rate: 0.00%

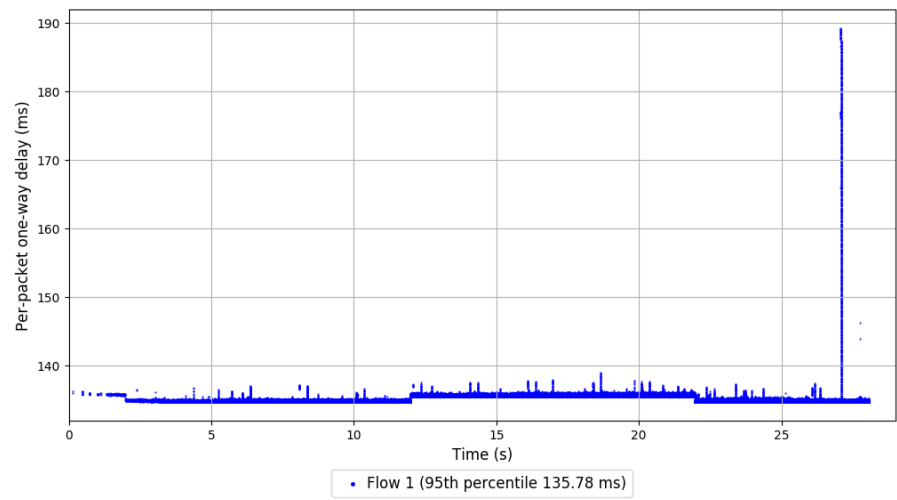
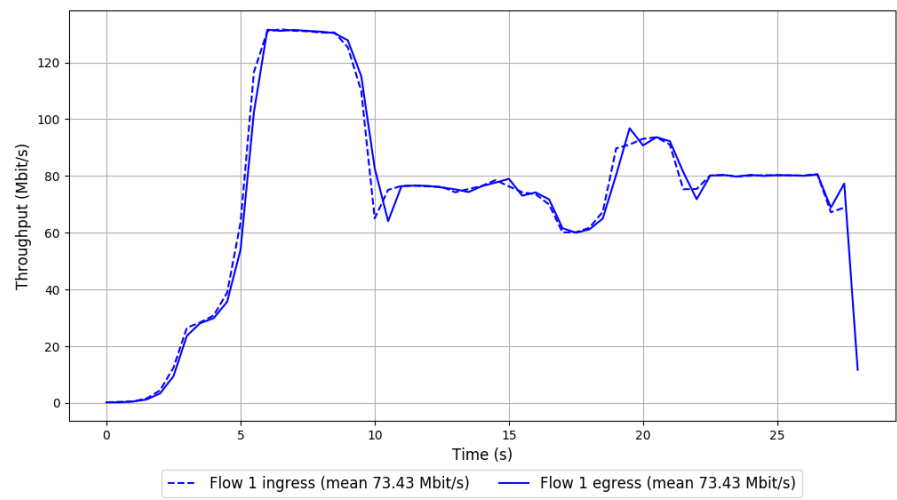
-- Flow 1:

Average throughput: 73.43 Mbit/s

95th percentile per-packet one-way delay: 135.780 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link

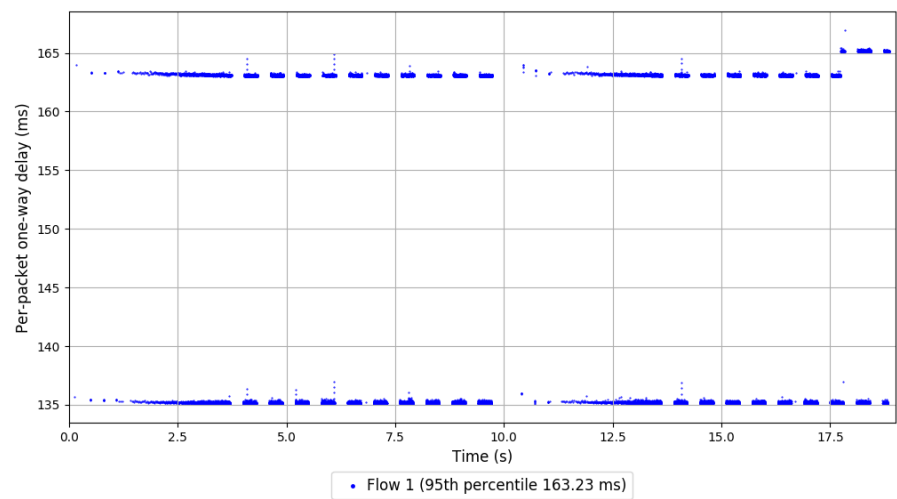
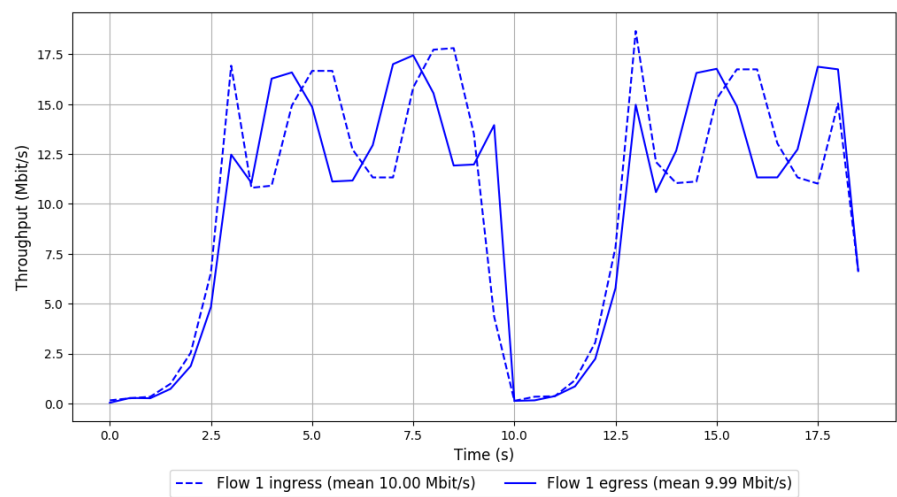


Run 3: Statistics of Copa

Start at: 2017-11-16 08:38:44

End at: 2017-11-16 08:39:14

Run 3: Report of Copa — Data Link

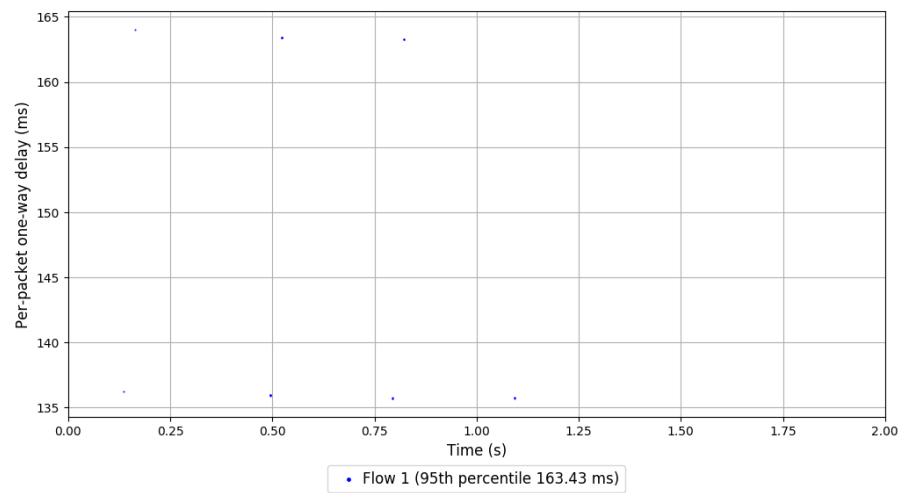
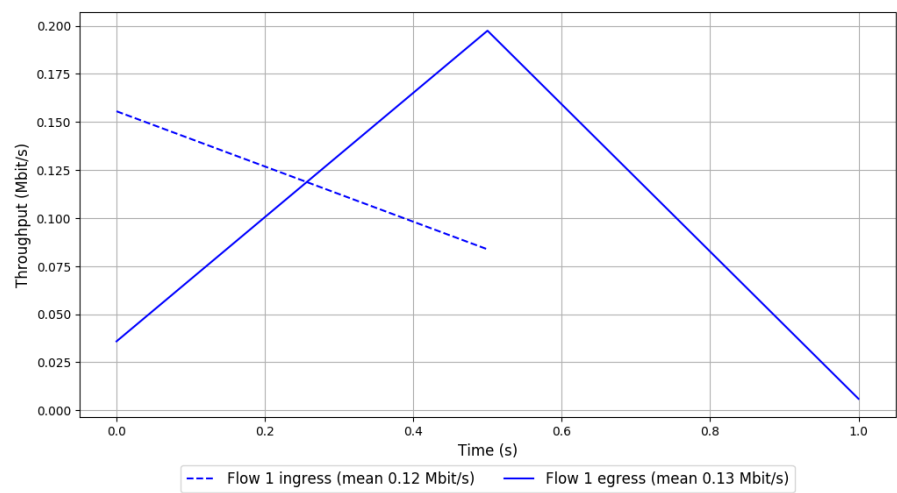


Run 4: Statistics of Copa

Start at: 2017-11-16 08:49:57

End at: 2017-11-16 08:50:27

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-16 09:01:05

End at: 2017-11-16 09:01:35

Below is generated by plot.py at 2017-11-16 10:56:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.29 Mbit/s

95th percentile per-packet one-way delay: 135.744 ms

Loss rate: 0.00%

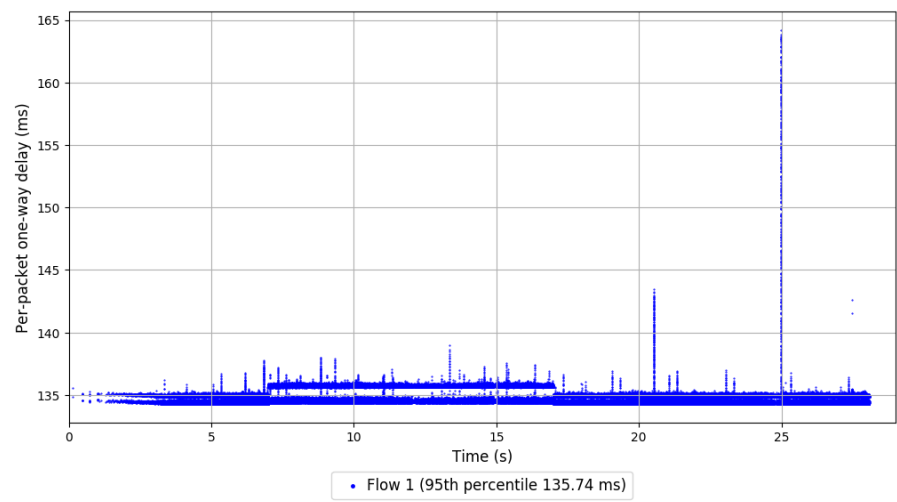
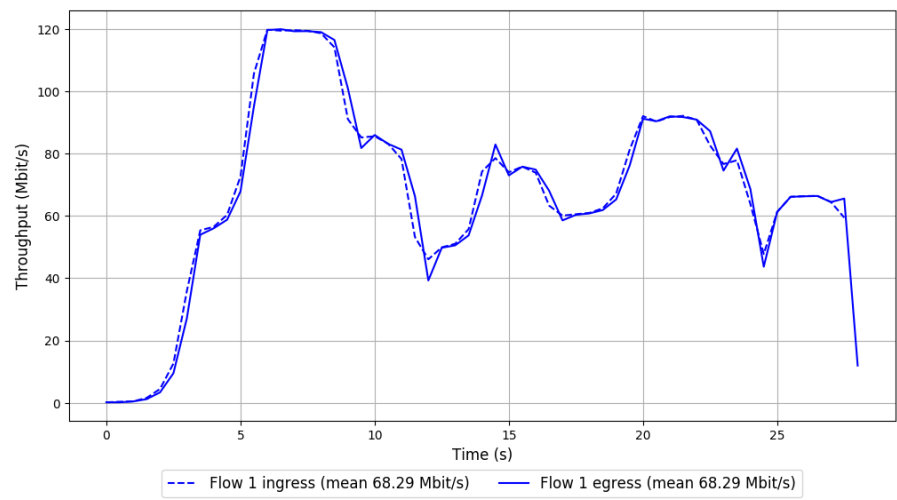
-- Flow 1:

Average throughput: 68.29 Mbit/s

95th percentile per-packet one-way delay: 135.744 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-16 09:12:31

End at: 2017-11-16 09:13:01

Below is generated by plot.py at 2017-11-16 10:56:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.86 Mbit/s

95th percentile per-packet one-way delay: 135.849 ms

Loss rate: 0.00%

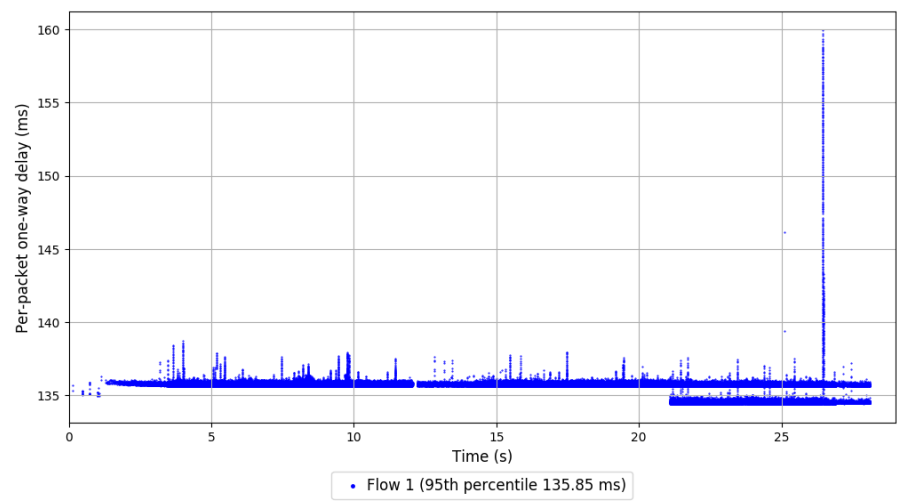
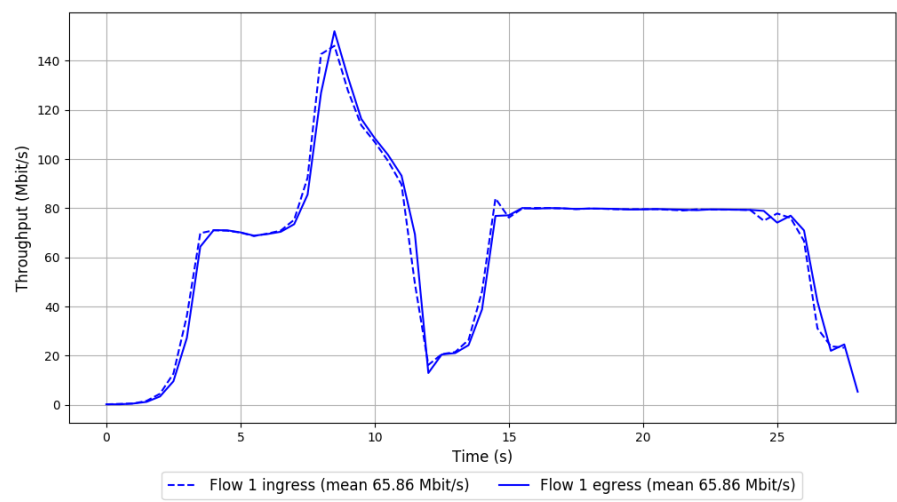
-- Flow 1:

Average throughput: 65.86 Mbit/s

95th percentile per-packet one-way delay: 135.849 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-16 09:23:58

End at: 2017-11-16 09:24:28

Below is generated by plot.py at 2017-11-16 10:56:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.05 Mbit/s

95th percentile per-packet one-way delay: 135.815 ms

Loss rate: 0.00%

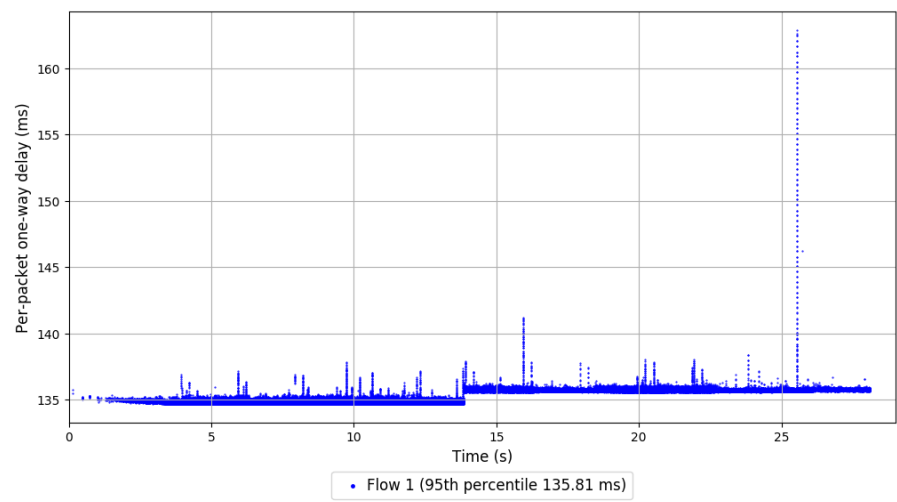
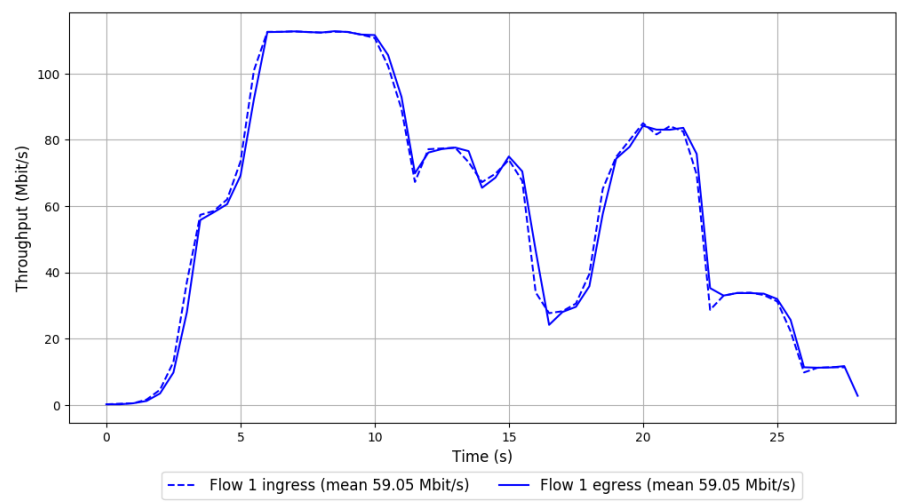
-- Flow 1:

Average throughput: 59.05 Mbit/s

95th percentile per-packet one-way delay: 135.815 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-16 09:35:14

End at: 2017-11-16 09:35:44

Below is generated by plot.py at 2017-11-16 10:56:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.27 Mbit/s

95th percentile per-packet one-way delay: 135.685 ms

Loss rate: 0.00%

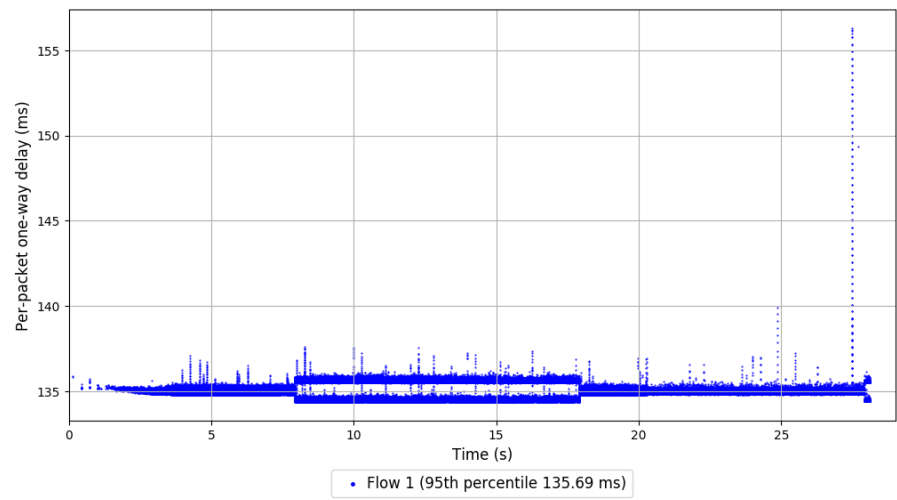
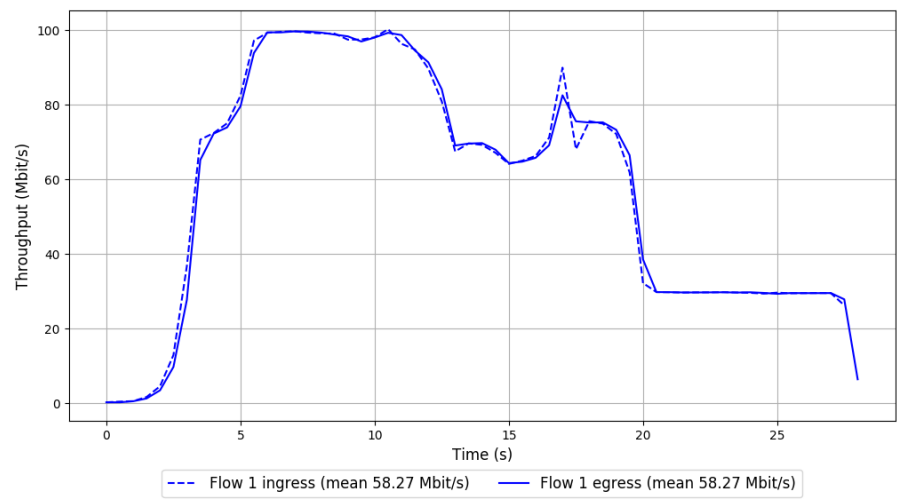
-- Flow 1:

Average throughput: 58.27 Mbit/s

95th percentile per-packet one-way delay: 135.685 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link

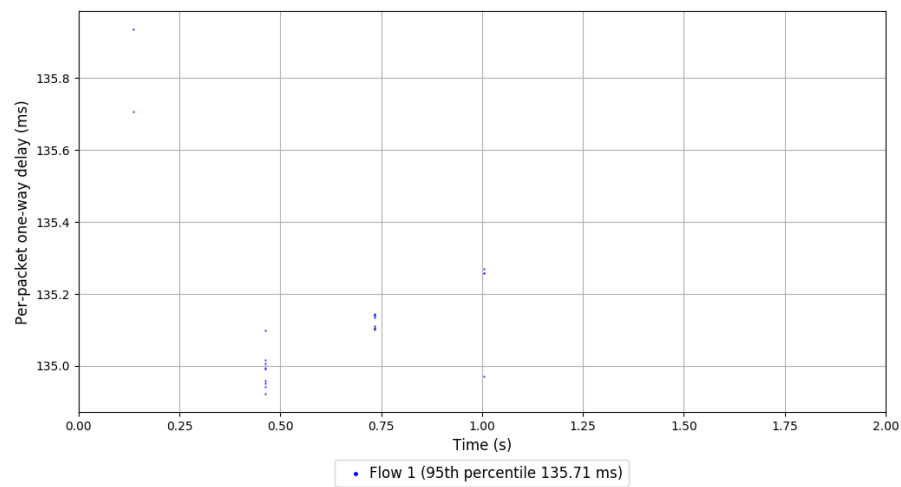
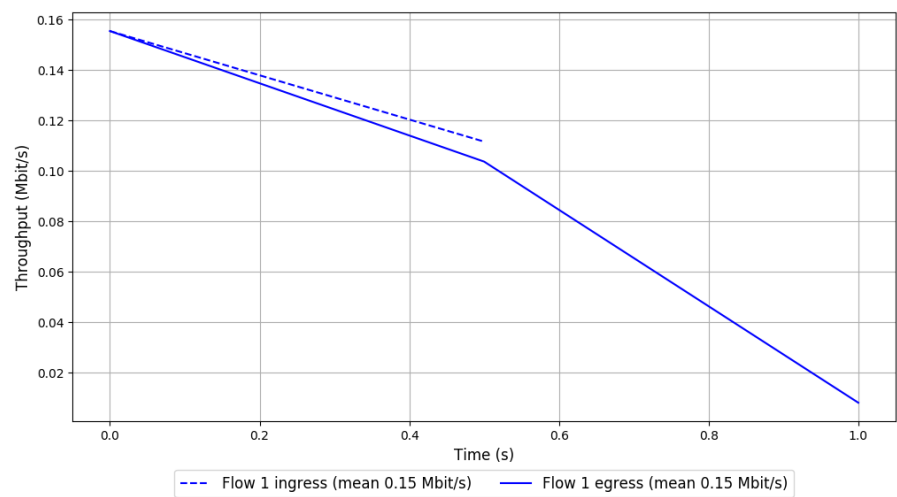


Run 9: Statistics of Copa

Start at: 2017-11-16 09:46:48

End at: 2017-11-16 09:47:18

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-16 09:58:13

End at: 2017-11-16 09:58:43

Below is generated by plot.py at 2017-11-16 10:57:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.45 Mbit/s

95th percentile per-packet one-way delay: 135.771 ms

Loss rate: 0.00%

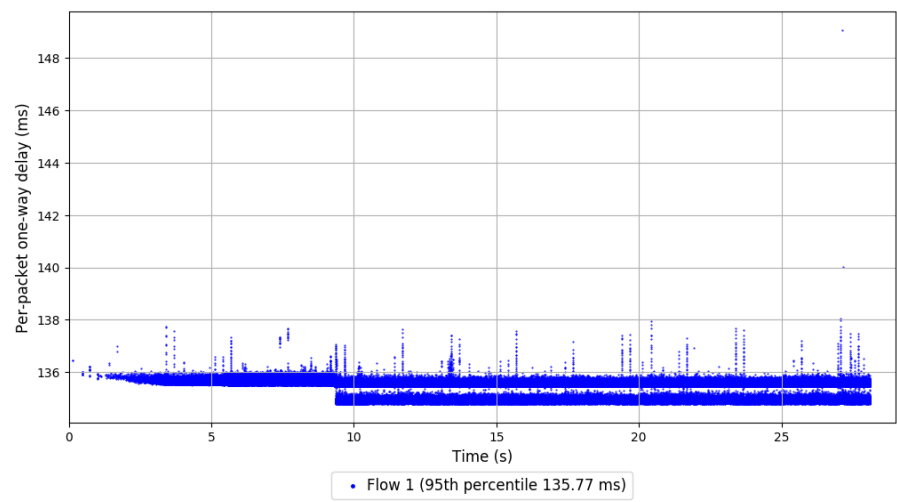
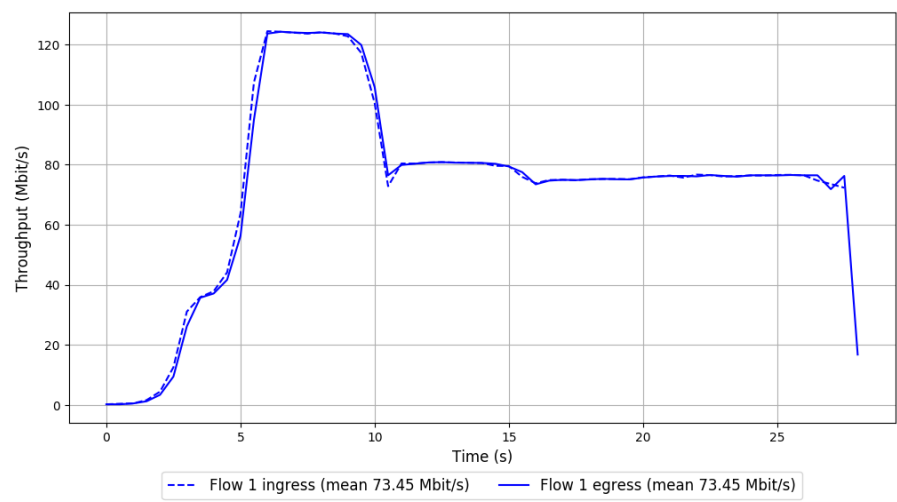
-- Flow 1:

Average throughput: 73.45 Mbit/s

95th percentile per-packet one-way delay: 135.771 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

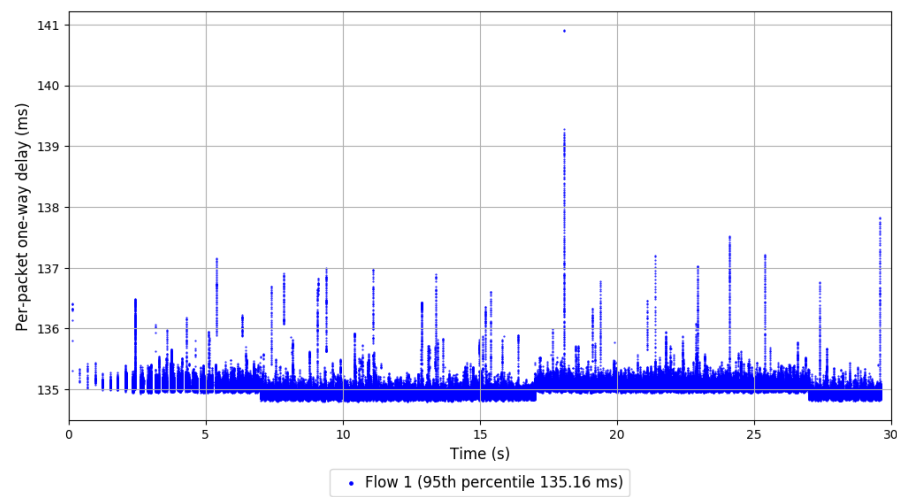
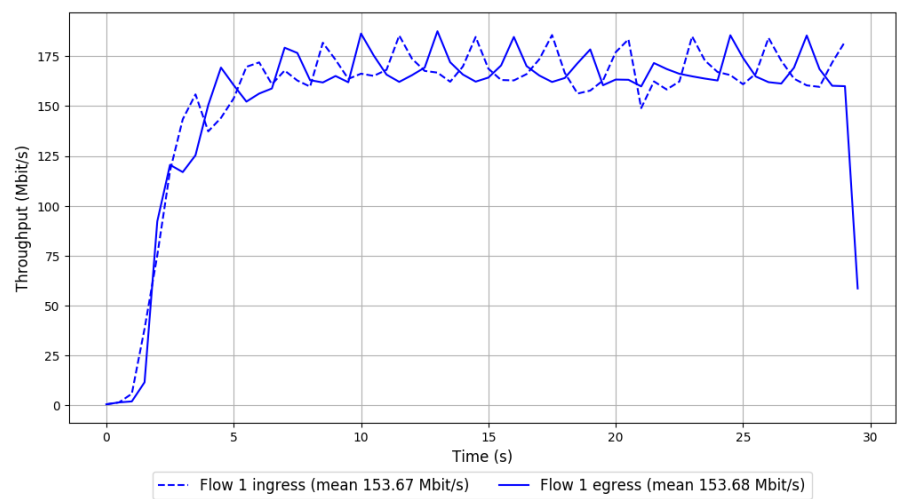


```
Run 1: Statistics of Indigo

Start at: 2017-11-16 08:10:57
End at: 2017-11-16 08:11:27

# Below is generated by plot.py at 2017-11-16 10:57:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 153.68 Mbit/s
95th percentile per-packet one-way delay: 135.160 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 153.68 Mbit/s
95th percentile per-packet one-way delay: 135.160 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-11-16 08:22:26

End at: 2017-11-16 08:22:56

Below is generated by plot.py at 2017-11-16 10:57:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.11 Mbit/s

95th percentile per-packet one-way delay: 135.795 ms

Loss rate: 0.00%

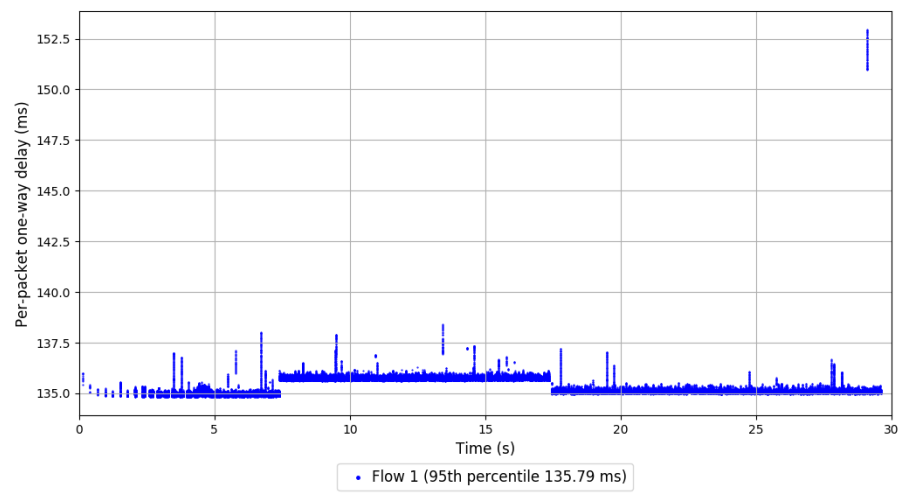
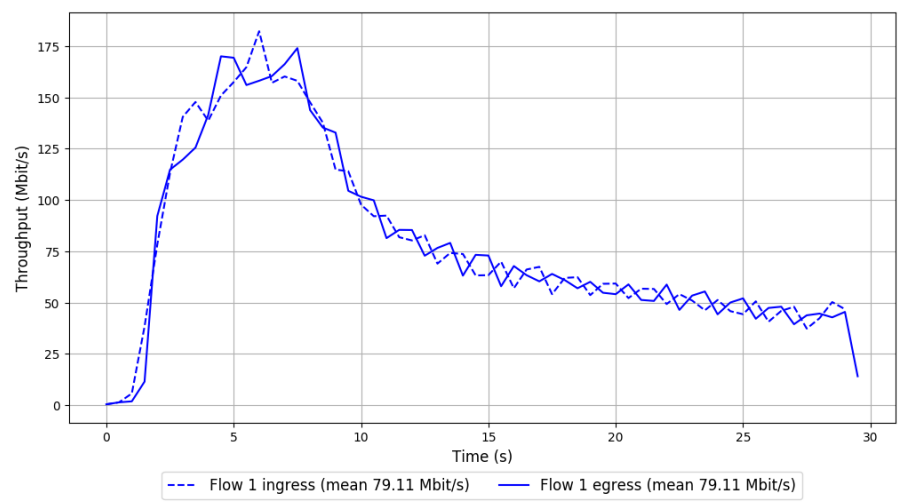
-- Flow 1:

Average throughput: 79.11 Mbit/s

95th percentile per-packet one-way delay: 135.795 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-16 08:33:17

End at: 2017-11-16 08:33:47

Below is generated by plot.py at 2017-11-16 10:58:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 139.07 Mbit/s

95th percentile per-packet one-way delay: 165.292 ms

Loss rate: 0.00%

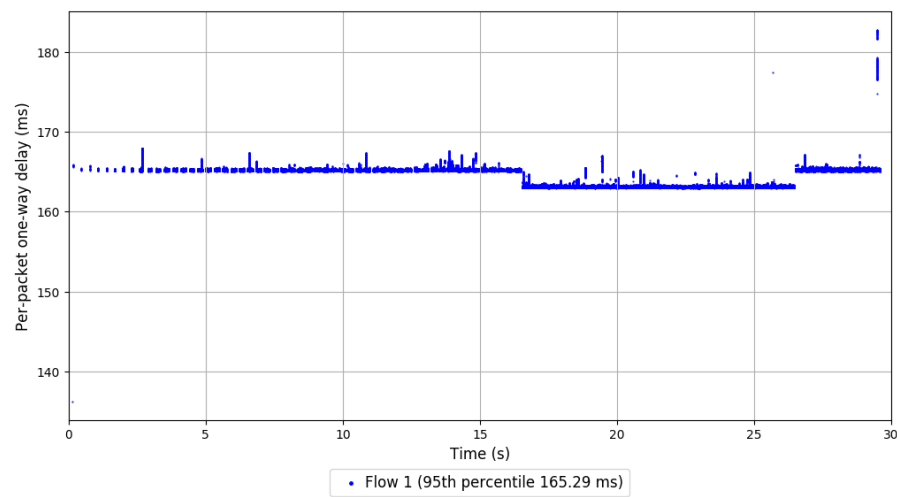
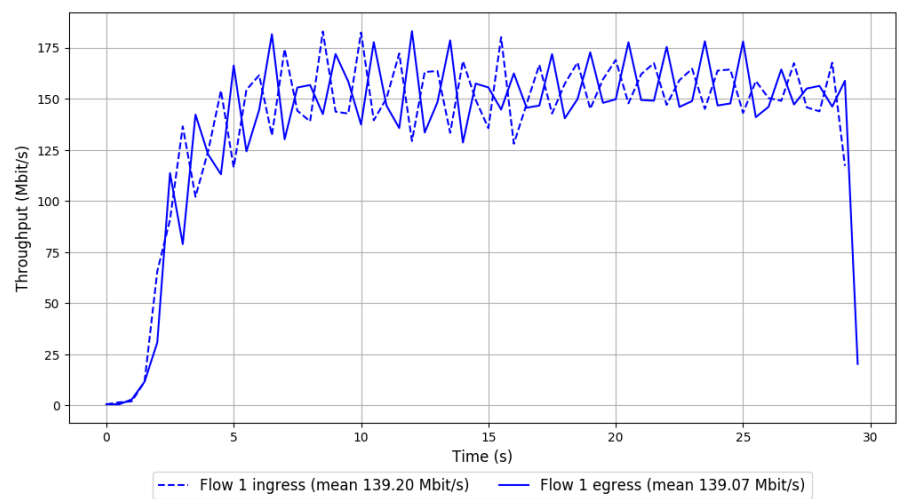
-- Flow 1:

Average throughput: 139.07 Mbit/s

95th percentile per-packet one-way delay: 165.292 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-16 08:44:35

End at: 2017-11-16 08:45:05

Below is generated by plot.py at 2017-11-16 10:58:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.68 Mbit/s

95th percentile per-packet one-way delay: 163.185 ms

Loss rate: 0.10%

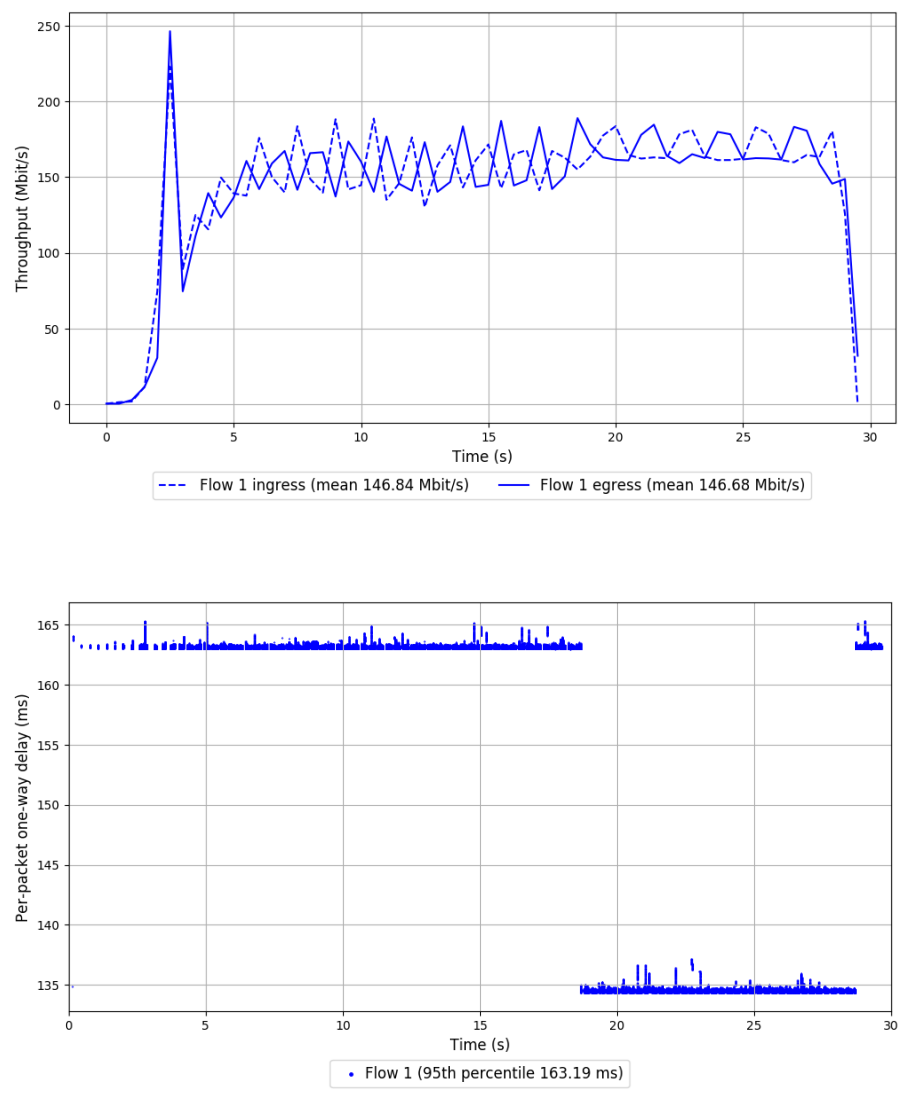
-- Flow 1:

Average throughput: 146.68 Mbit/s

95th percentile per-packet one-way delay: 163.185 ms

Loss rate: 0.10%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-16 08:55:32

End at: 2017-11-16 08:56:02

Below is generated by plot.py at 2017-11-16 10:58:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 137.76 Mbit/s

95th percentile per-packet one-way delay: 165.258 ms

Loss rate: 0.14%

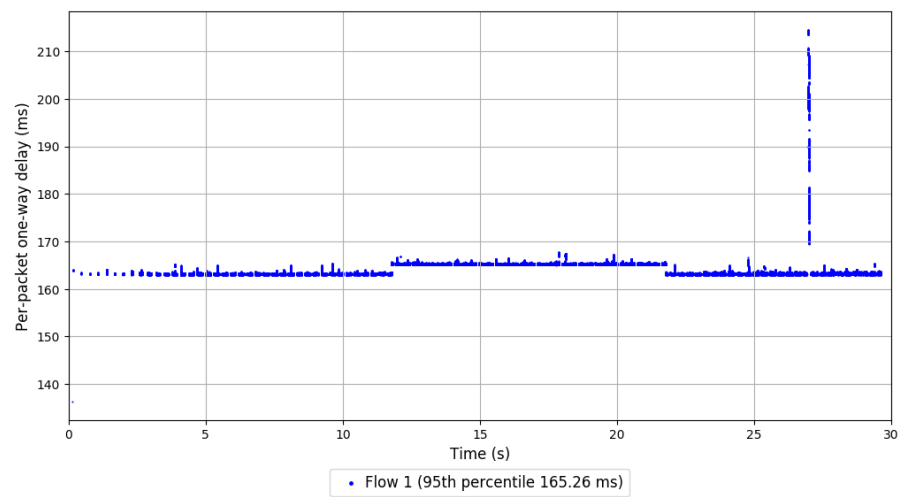
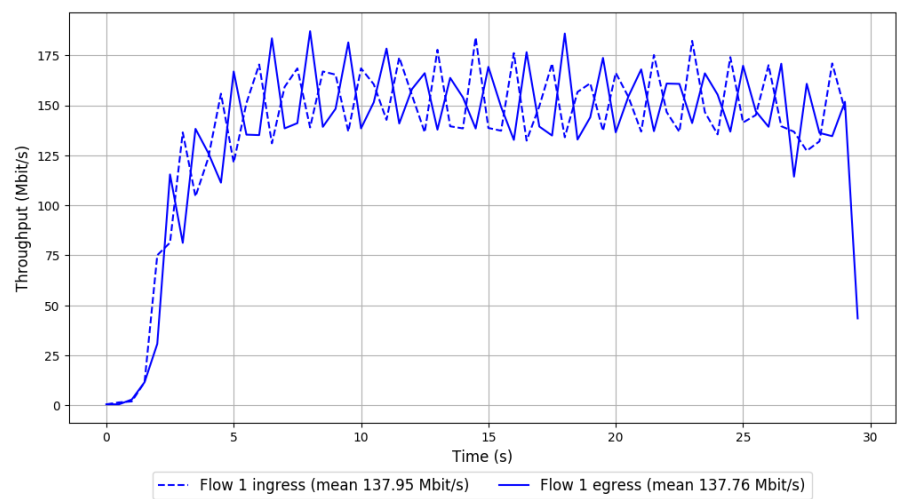
-- Flow 1:

Average throughput: 137.76 Mbit/s

95th percentile per-packet one-way delay: 165.258 ms

Loss rate: 0.14%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-16 09:06:51

End at: 2017-11-16 09:07:21

Below is generated by plot.py at 2017-11-16 10:59:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.69 Mbit/s

95th percentile per-packet one-way delay: 135.764 ms

Loss rate: 0.00%

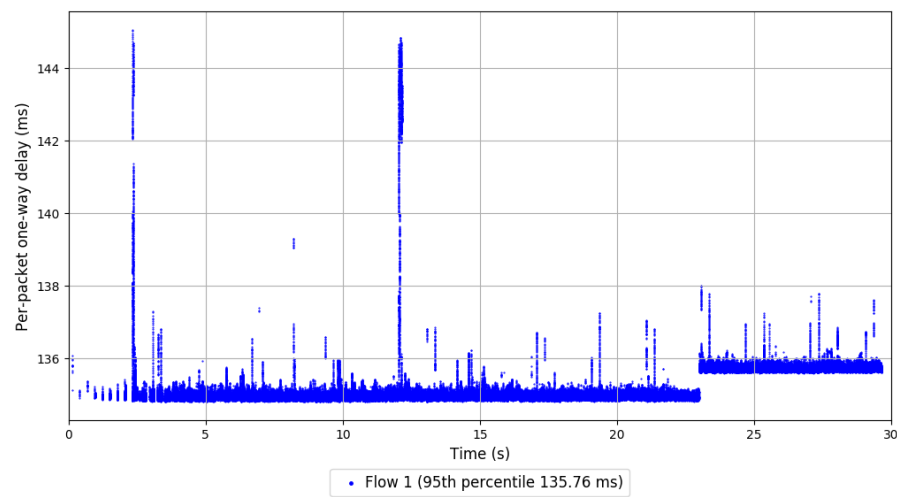
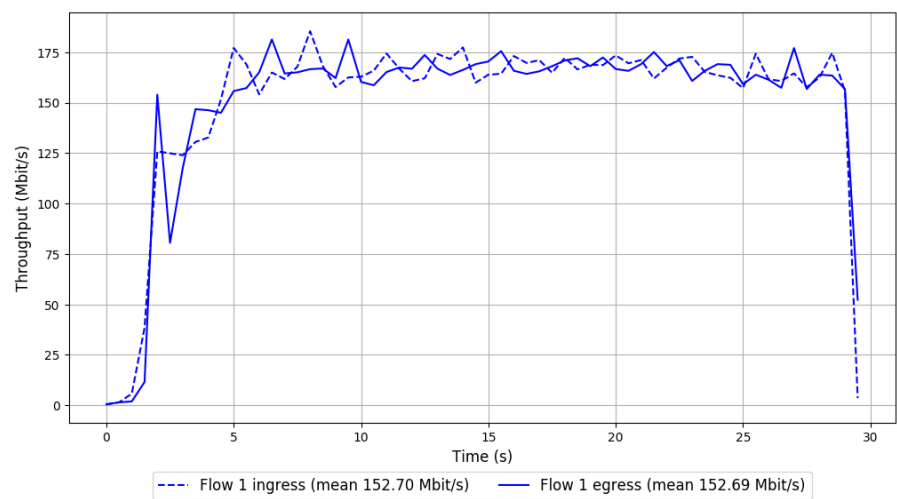
-- Flow 1:

Average throughput: 152.69 Mbit/s

95th percentile per-packet one-way delay: 135.764 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-16 09:18:25

End at: 2017-11-16 09:18:55

Below is generated by plot.py at 2017-11-16 10:59:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.21 Mbit/s

95th percentile per-packet one-way delay: 135.757 ms

Loss rate: 0.00%

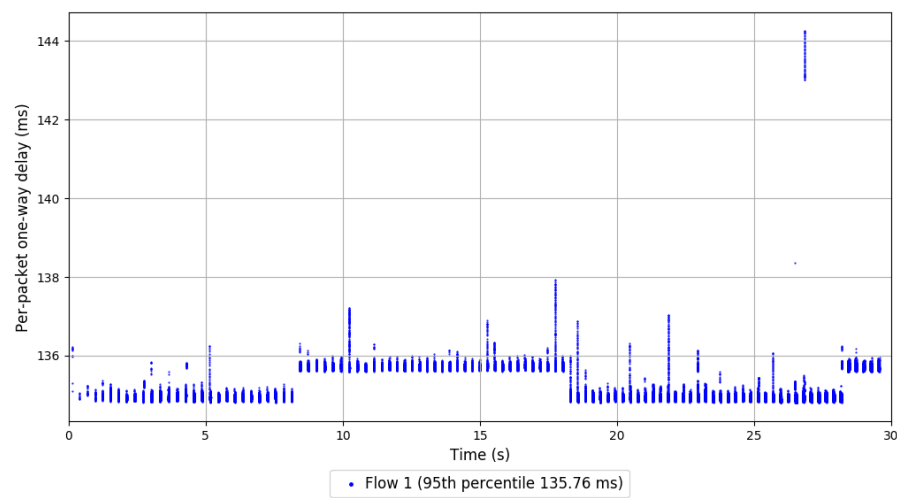
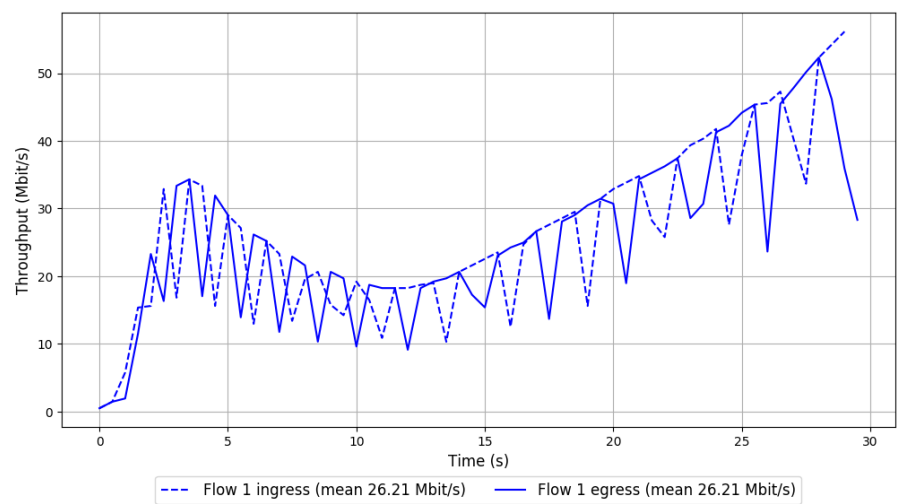
-- Flow 1:

Average throughput: 26.21 Mbit/s

95th percentile per-packet one-way delay: 135.757 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-16 09:29:53

End at: 2017-11-16 09:30:23

Below is generated by plot.py at 2017-11-16 10:59:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.30 Mbit/s

95th percentile per-packet one-way delay: 135.762 ms

Loss rate: 0.00%

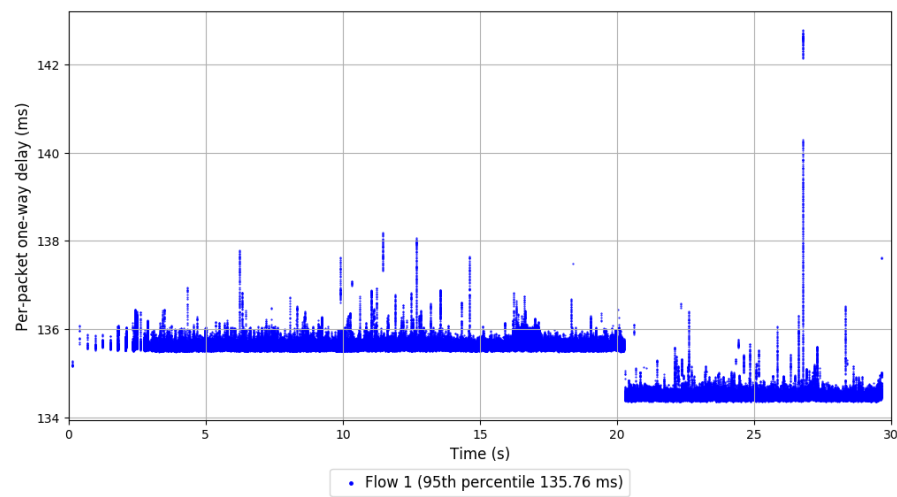
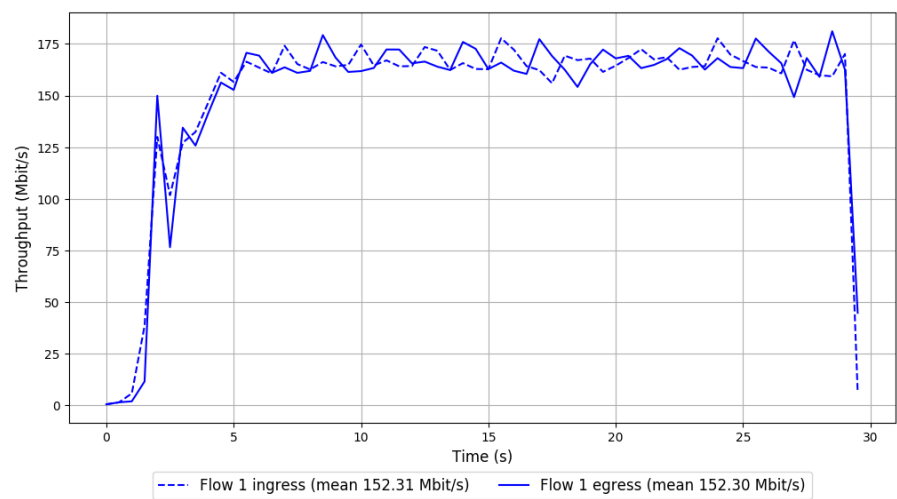
-- Flow 1:

Average throughput: 152.30 Mbit/s

95th percentile per-packet one-way delay: 135.762 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-16 09:41:09

End at: 2017-11-16 09:41:39

Below is generated by plot.py at 2017-11-16 10:59:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.58 Mbit/s

95th percentile per-packet one-way delay: 135.650 ms

Loss rate: 0.00%

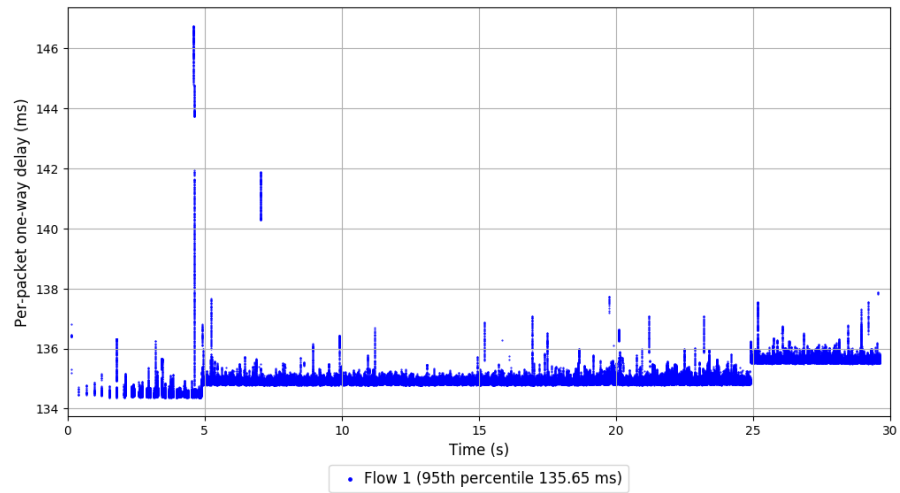
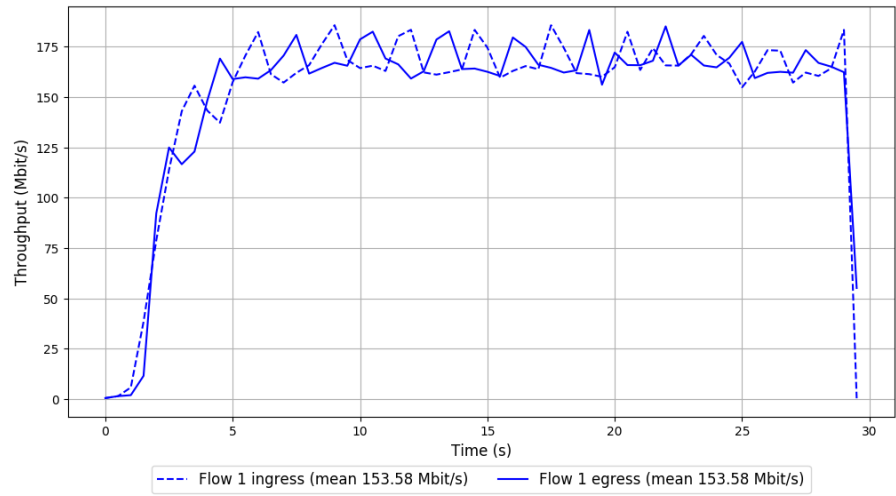
-- Flow 1:

Average throughput: 153.58 Mbit/s

95th percentile per-packet one-way delay: 135.650 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-11-16 09:52:36

End at: 2017-11-16 09:53:06

Below is generated by plot.py at 2017-11-16 10:59:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.52 Mbit/s

95th percentile per-packet one-way delay: 135.694 ms

Loss rate: 0.00%

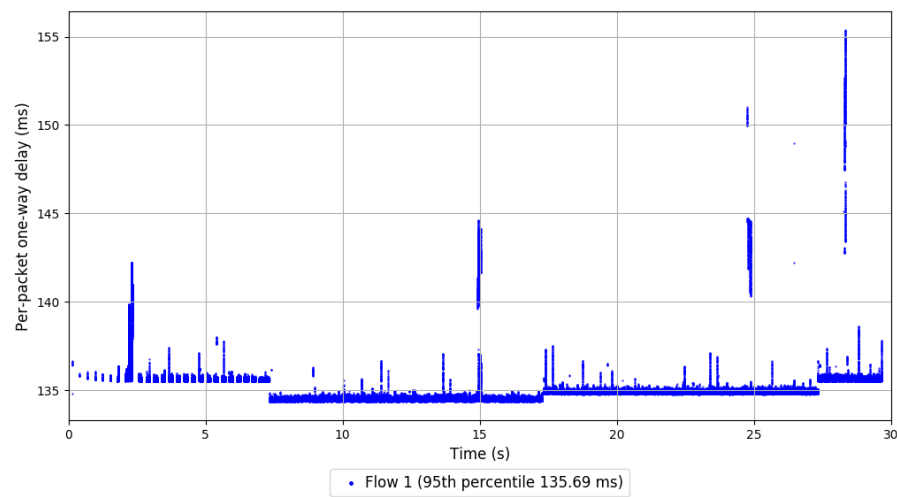
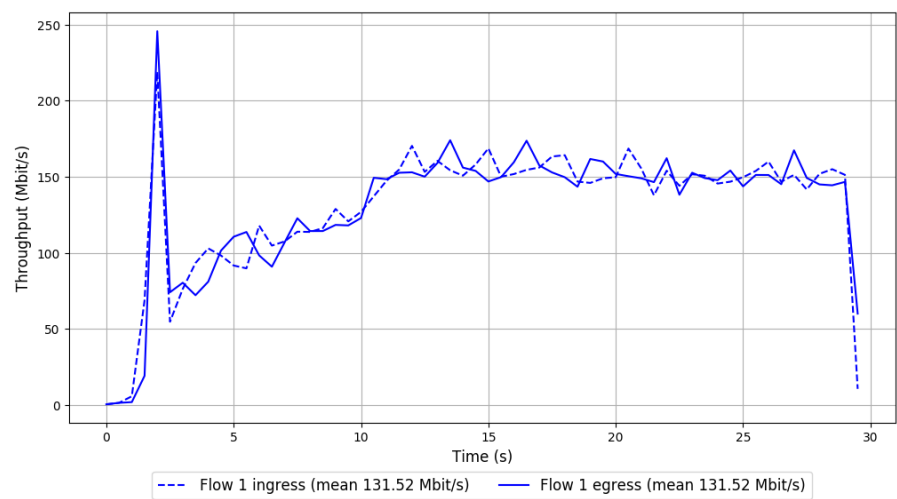
-- Flow 1:

Average throughput: 131.52 Mbit/s

95th percentile per-packet one-way delay: 135.694 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

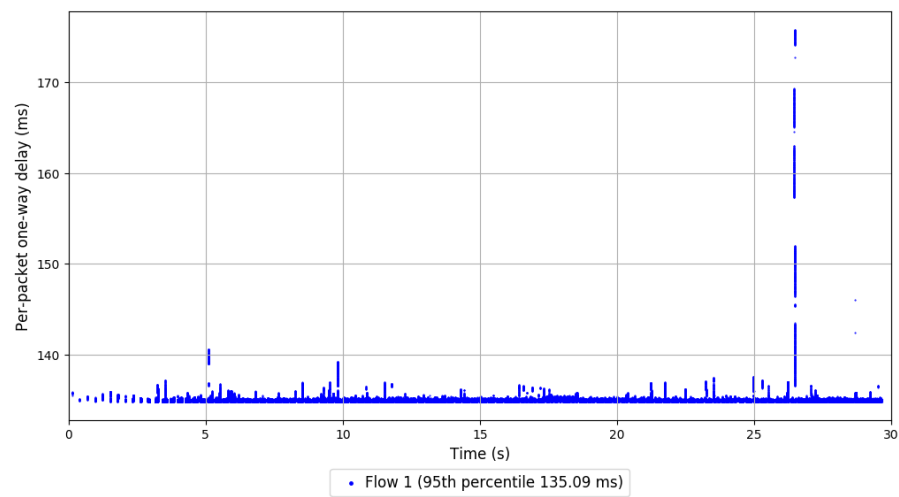
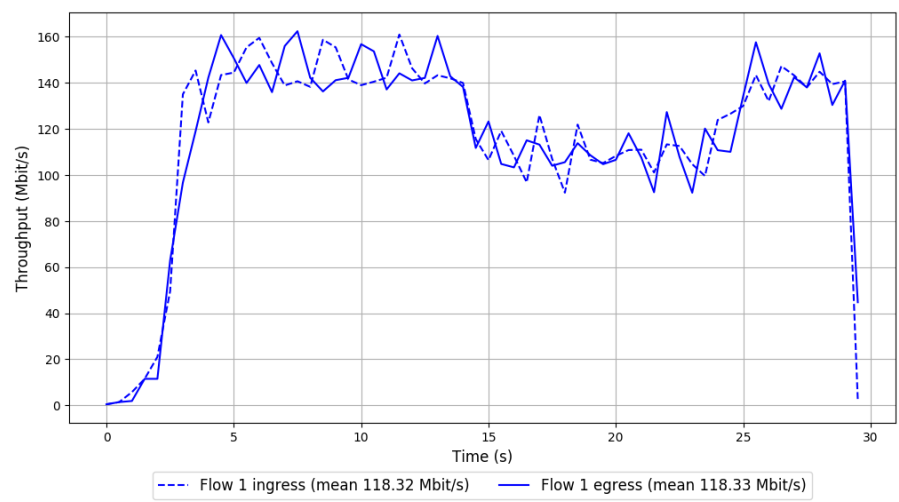


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-16 08:09:22
End at: 2017-11-16 08:09:52

# Below is generated by plot.py at 2017-11-16 10:59:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 118.33 Mbit/s
95th percentile per-packet one-way delay: 135.091 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 118.33 Mbit/s
95th percentile per-packet one-way delay: 135.091 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

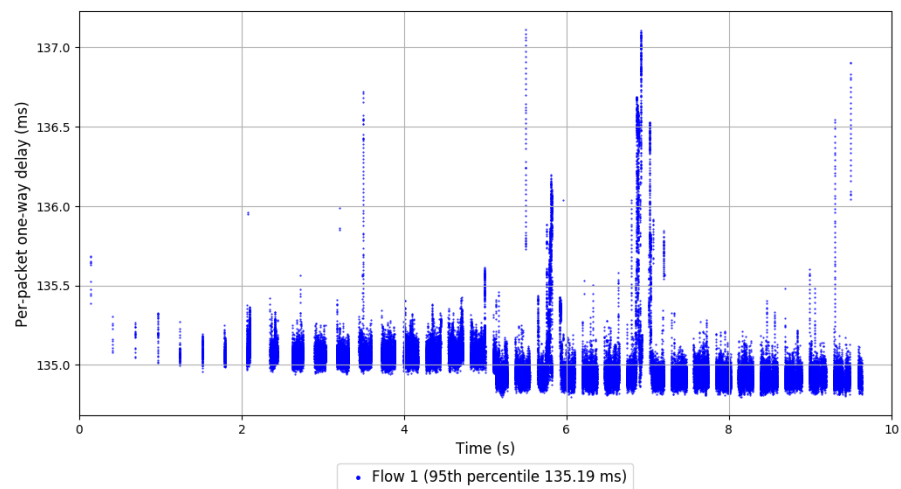
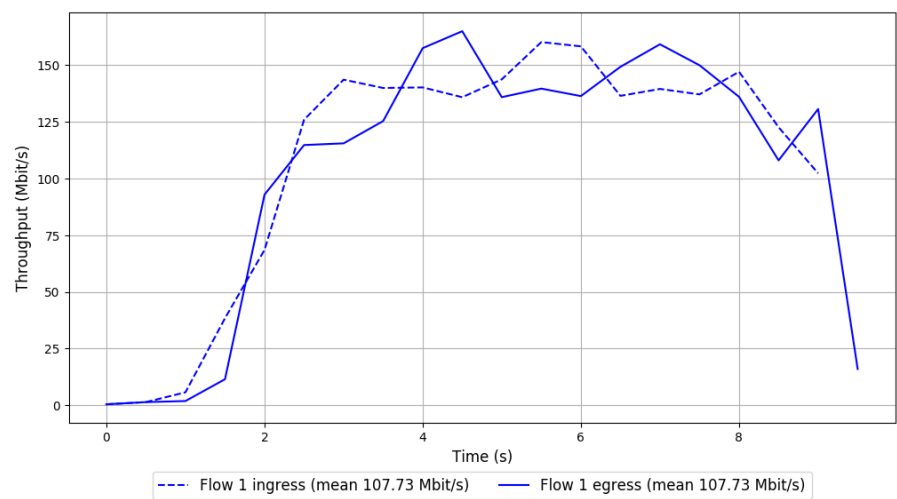


Run 2: Statistics of Indigo-calib

Start at: 2017-11-16 08:20:58

End at: 2017-11-16 08:21:28

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-11-16 08:31:42

End at: 2017-11-16 08:32:12

Below is generated by plot.py at 2017-11-16 11:00:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.22 Mbit/s

95th percentile per-packet one-way delay: 163.254 ms

Loss rate: 0.00%

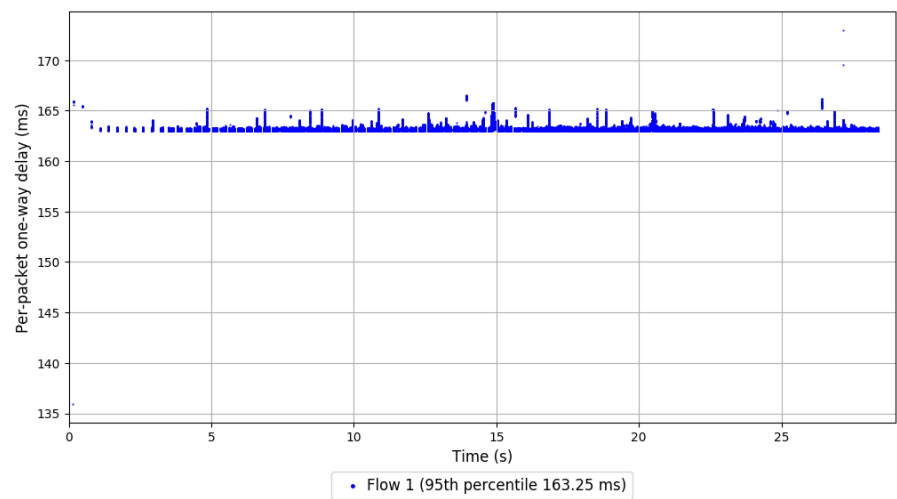
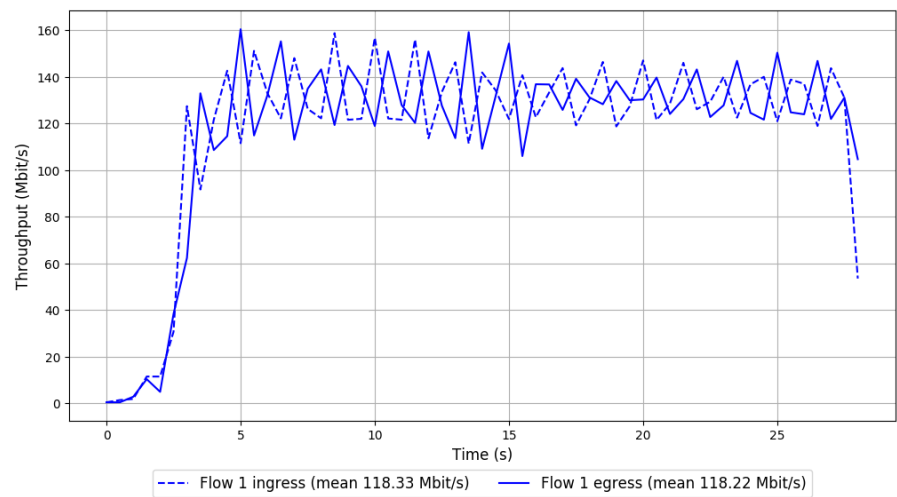
-- Flow 1:

Average throughput: 118.22 Mbit/s

95th percentile per-packet one-way delay: 163.254 ms

Loss rate: 0.00%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-11-16 08:43:00

End at: 2017-11-16 08:43:30

Below is generated by plot.py at 2017-11-16 11:00:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 117.70 Mbit/s

95th percentile per-packet one-way delay: 165.259 ms

Loss rate: 0.11%

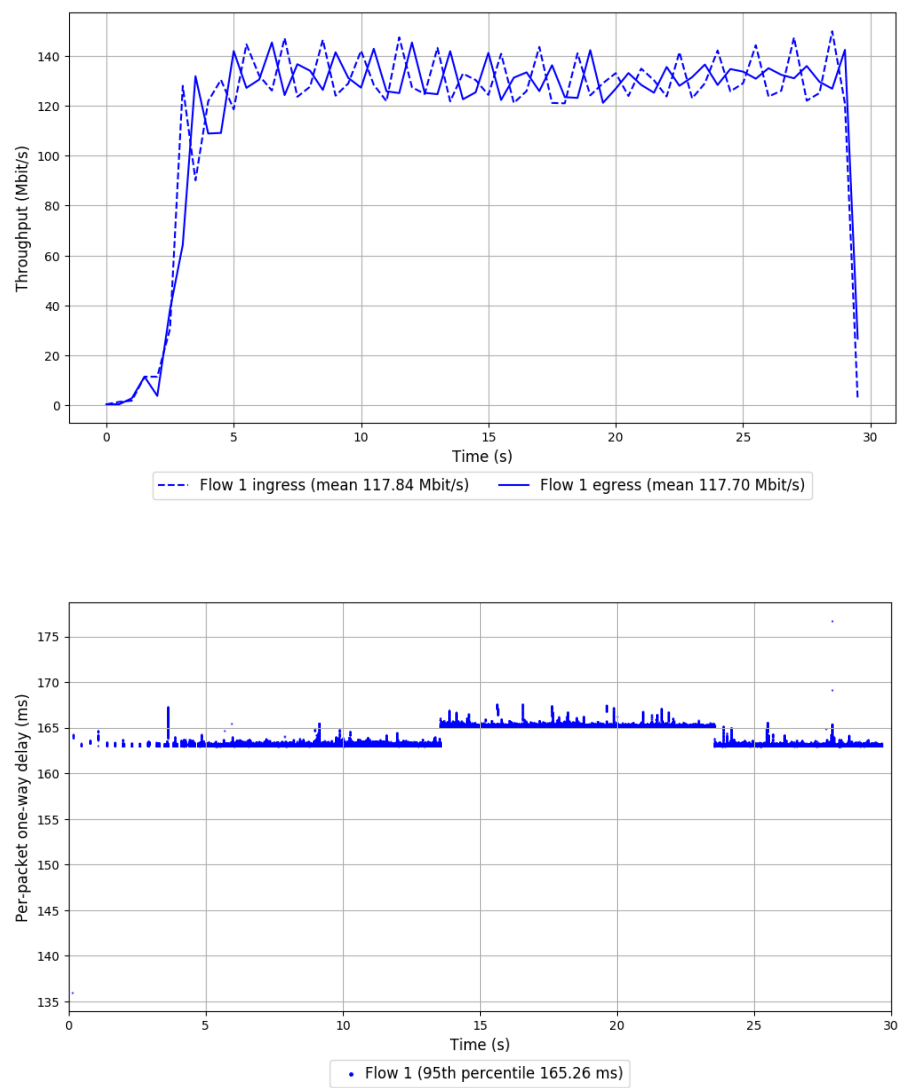
-- Flow 1:

Average throughput: 117.70 Mbit/s

95th percentile per-packet one-way delay: 165.259 ms

Loss rate: 0.11%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-11-16 08:53:54

End at: 2017-11-16 08:54:24

Below is generated by plot.py at 2017-11-16 11:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.81 Mbit/s

95th percentile per-packet one-way delay: 163.133 ms

Loss rate: 0.00%

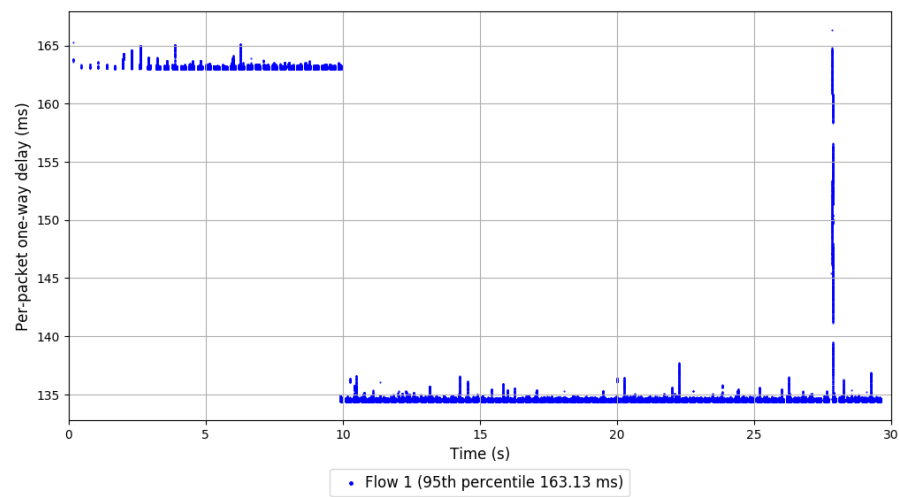
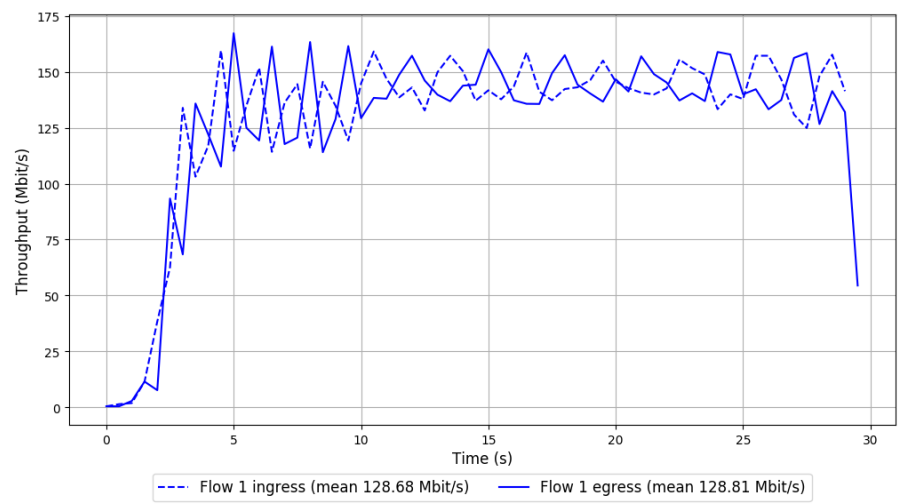
-- Flow 1:

Average throughput: 128.81 Mbit/s

95th percentile per-packet one-way delay: 163.133 ms

Loss rate: 0.00%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-11-16 09:05:26

End at: 2017-11-16 09:05:56

Below is generated by plot.py at 2017-11-16 11:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.02 Mbit/s

95th percentile per-packet one-way delay: 135.818 ms

Loss rate: 0.00%

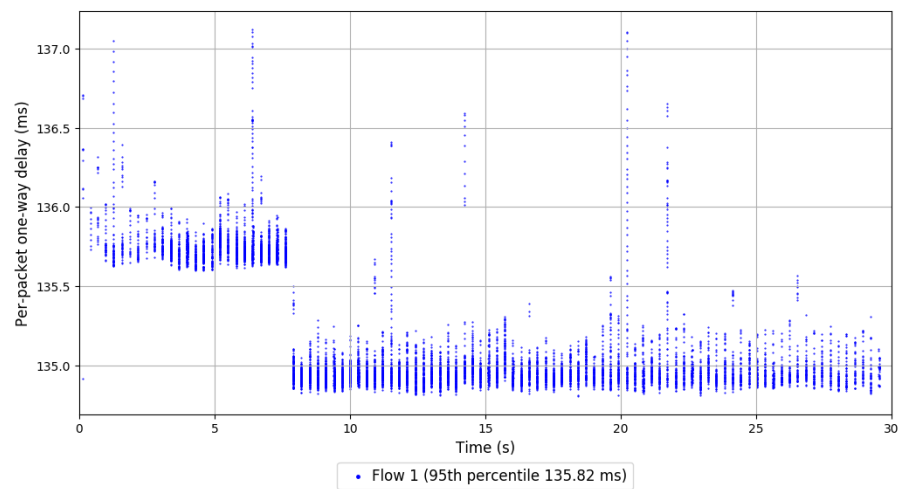
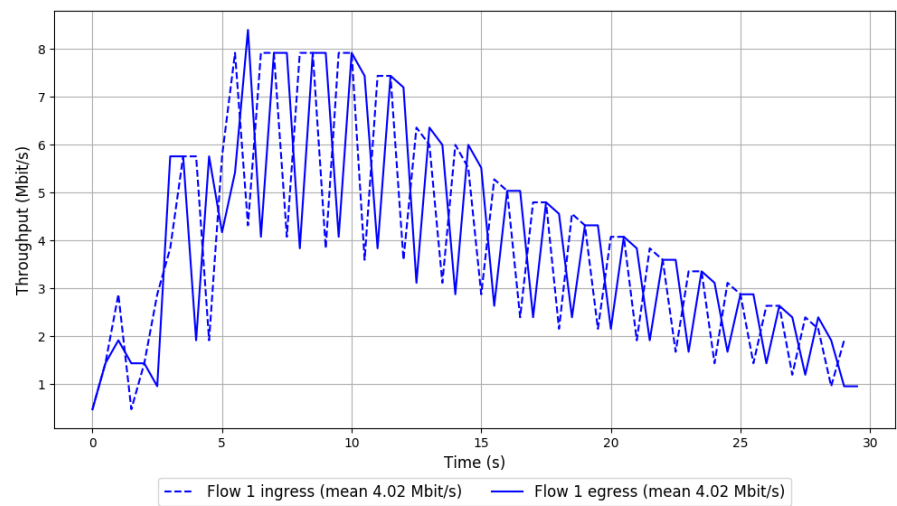
-- Flow 1:

Average throughput: 4.02 Mbit/s

95th percentile per-packet one-way delay: 135.818 ms

Loss rate: 0.00%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-11-16 09:16:50

End at: 2017-11-16 09:17:20

Below is generated by plot.py at 2017-11-16 11:01:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.76 Mbit/s

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

Loss rate: 0.00%

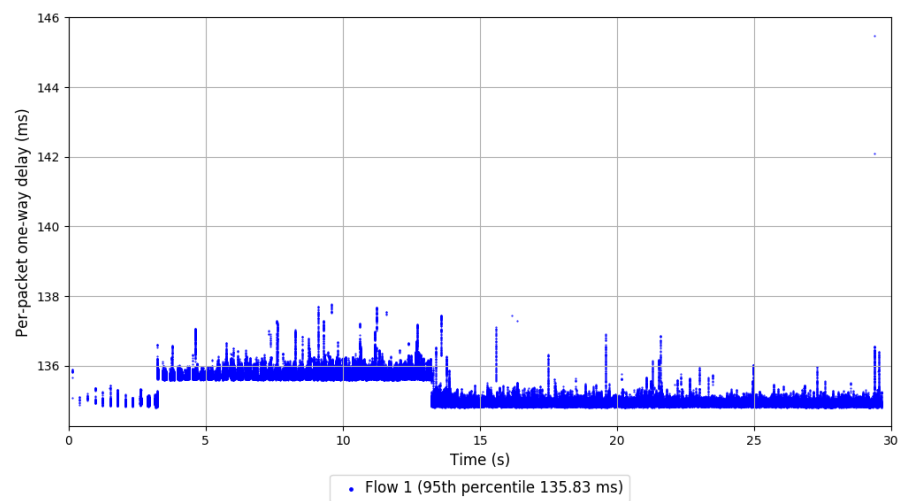
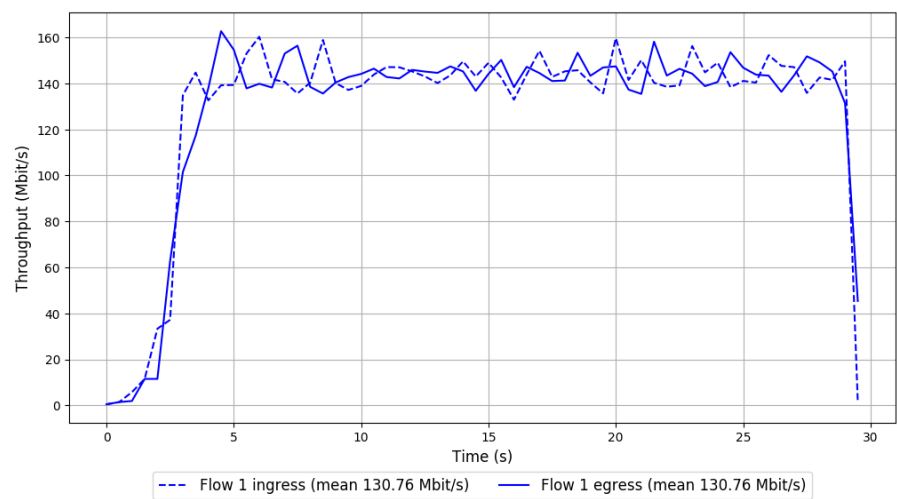
-- Flow 1:

Average throughput: 130.76 Mbit/s

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

Loss rate: 0.00%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-16 09:28:18

End at: 2017-11-16 09:28:48

Below is generated by plot.py at 2017-11-16 11:01:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.07 Mbit/s

95th percentile per-packet one-way delay: 135.047 ms

Loss rate: 0.00%

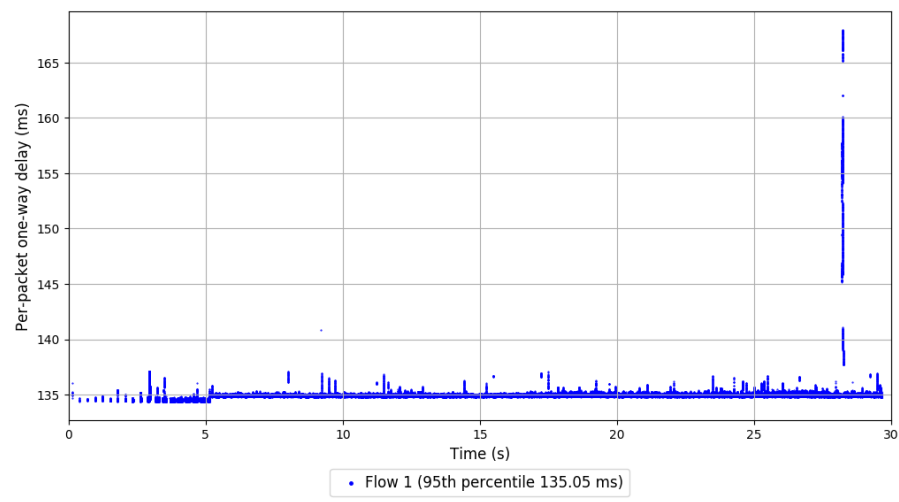
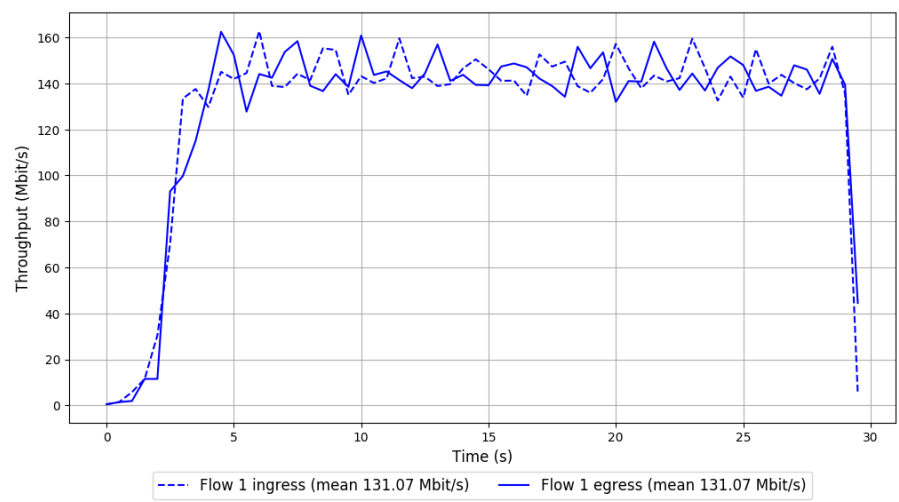
-- Flow 1:

Average throughput: 131.07 Mbit/s

95th percentile per-packet one-way delay: 135.047 ms

Loss rate: 0.00%

Run 8: Report of Indigo-calib — Data Link

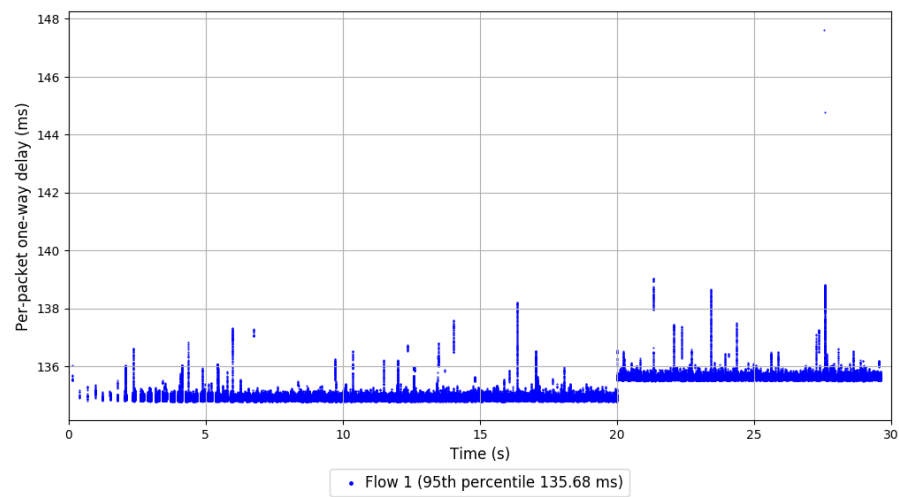
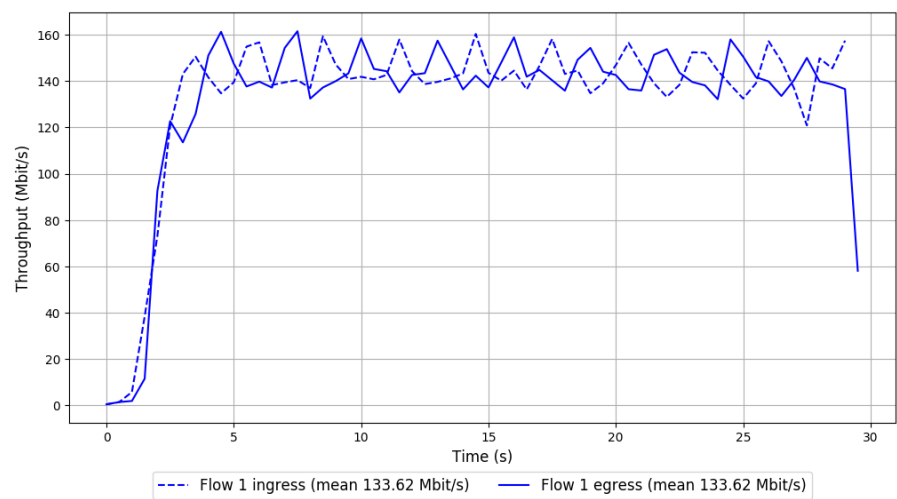


```
Run 9: Statistics of Indigo-calib

Start at: 2017-11-16 09:39:34
End at: 2017-11-16 09:40:04

# Below is generated by plot.py at 2017-11-16 11:01:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 133.62 Mbit/s
95th percentile per-packet one-way delay: 135.682 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 133.62 Mbit/s
95th percentile per-packet one-way delay: 135.682 ms
Loss rate: 0.00%
```

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-16 09:51:01

End at: 2017-11-16 09:51:31

Below is generated by plot.py at 2017-11-16 11:01:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.60 Mbit/s

95th percentile per-packet one-way delay: 135.027 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 132.60 Mbit/s

95th percentile per-packet one-way delay: 135.027 ms

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

