

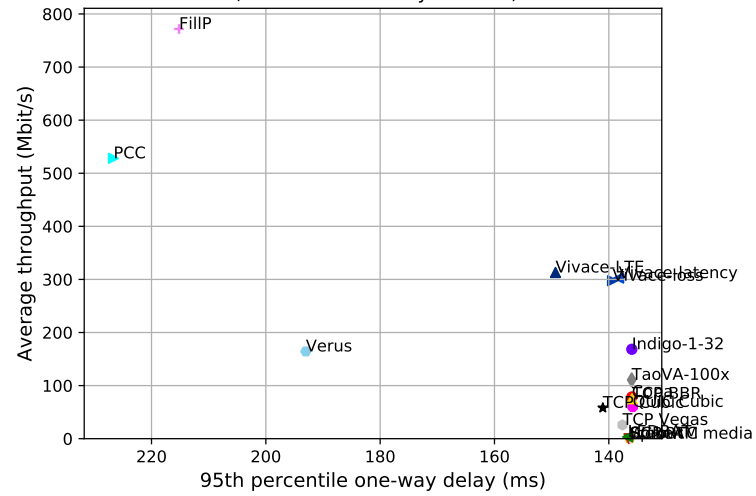
Pantheon Report

Generated at 2018-04-11 02:58:58 (UTC).
Data path: GCE Sydney Ethernet (*local*) → GCE London Ethernet (*remote*).
Repeated the test of 17 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**).

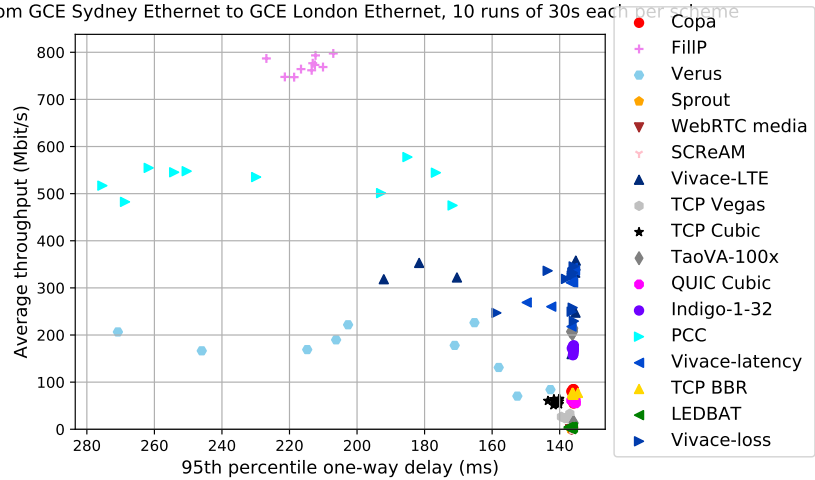
Git summary:

```
branch: master @ eb420b5be9bafccd22cf68b99ff5a2000462fc59
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
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 @ f1a14bffe749737437f61b1eaeab30b267cde681
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/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581
```

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	75.26	135.94	0.00
TCP Cubic	10	58.13	141.05	0.00
LEDBAT	10	3.48	136.70	0.00
PCC	10	528.05	226.65	1.39
QUIC Cubic	10	59.95	135.82	0.00
SCReAM	10	0.22	136.20	0.00
WebRTC media	10	0.06	136.48	0.00
Sprout	10	0.41	136.34	0.00
TaoVA-100x	10	110.84	136.00	0.01
TCP Vegas	10	25.89	137.60	0.00
Verus	10	164.33	193.00	0.30
Copa	10	78.56	135.97	0.00
FillP	10	771.74	215.19	4.17
Indigo-1-32	10	168.43	135.98	0.00
Vivace-latency	10	302.47	138.28	0.00
Vivace-loss	10	297.50	139.34	0.00
Vivace-LTE	10	313.08	149.33	0.03

Run 1: Statistics of TCP BBR

Start at: 2018-04-10 22:08:04

End at: 2018-04-10 22:08:34

Below is generated by plot.py at 2018-04-11 01:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.18 Mbit/s

95th percentile per-packet one-way delay: 134.596 ms

Loss rate: 0.00%

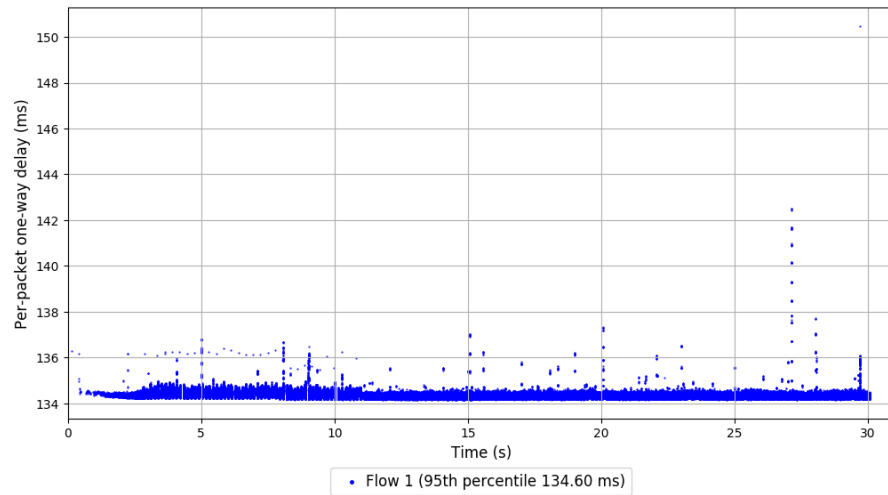
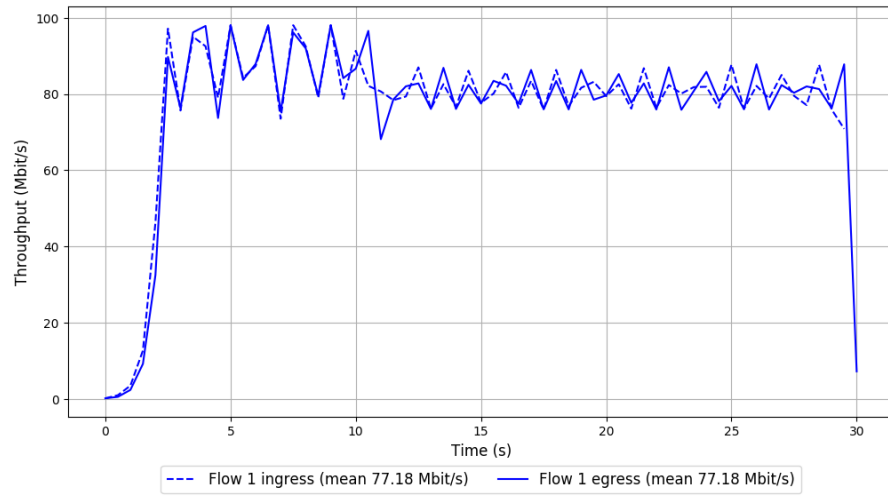
-- Flow 1:

Average throughput: 77.18 Mbit/s

95th percentile per-packet one-way delay: 134.596 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-10 22:24:06

End at: 2018-04-10 22:24:36

Below is generated by plot.py at 2018-04-11 01:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.08 Mbit/s

95th percentile per-packet one-way delay: 136.031 ms

Loss rate: 0.00%

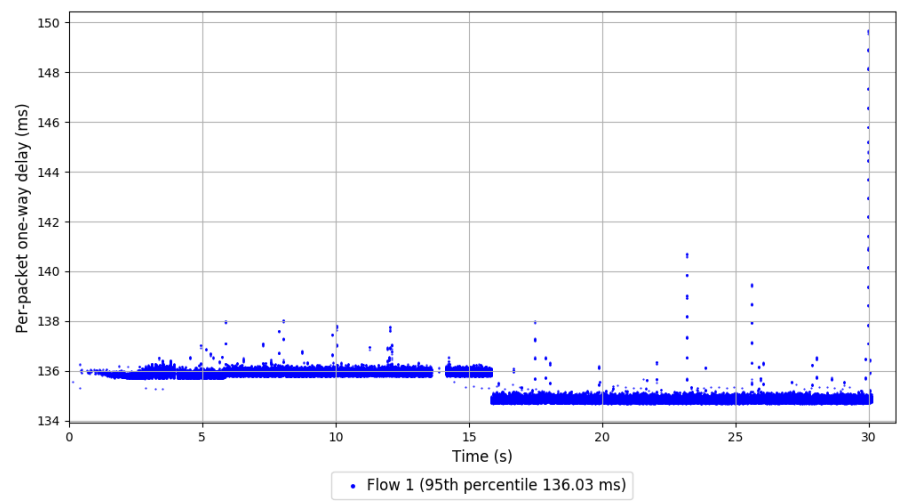
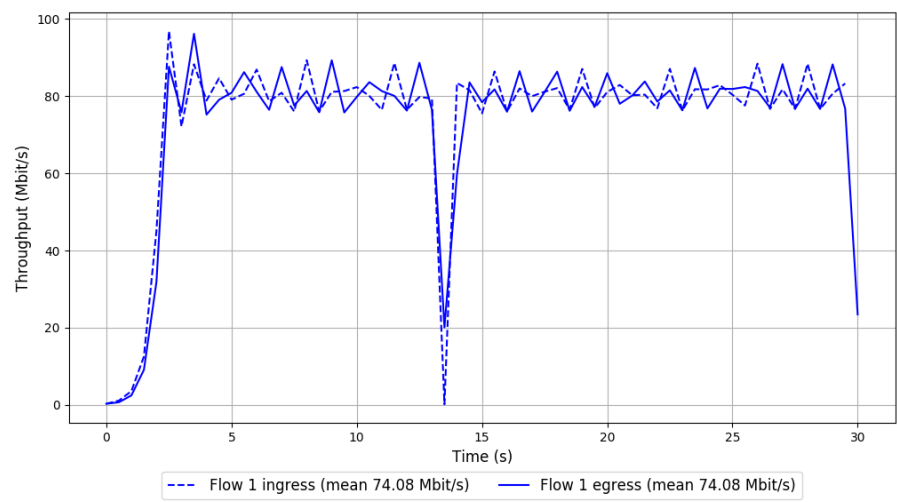
-- Flow 1:

Average throughput: 74.08 Mbit/s

95th percentile per-packet one-way delay: 136.031 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-10 22:40:17

End at: 2018-04-10 22:40:47

Below is generated by plot.py at 2018-04-11 01:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.17 Mbit/s

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

Loss rate: 0.00%

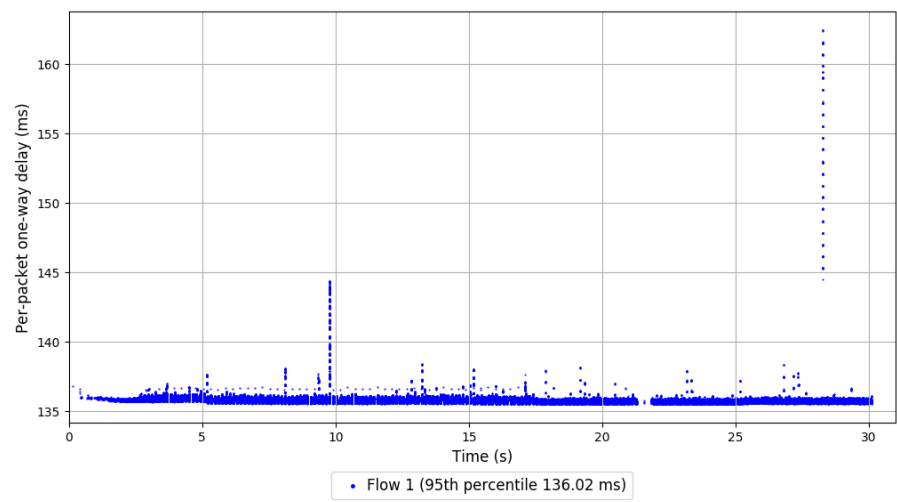
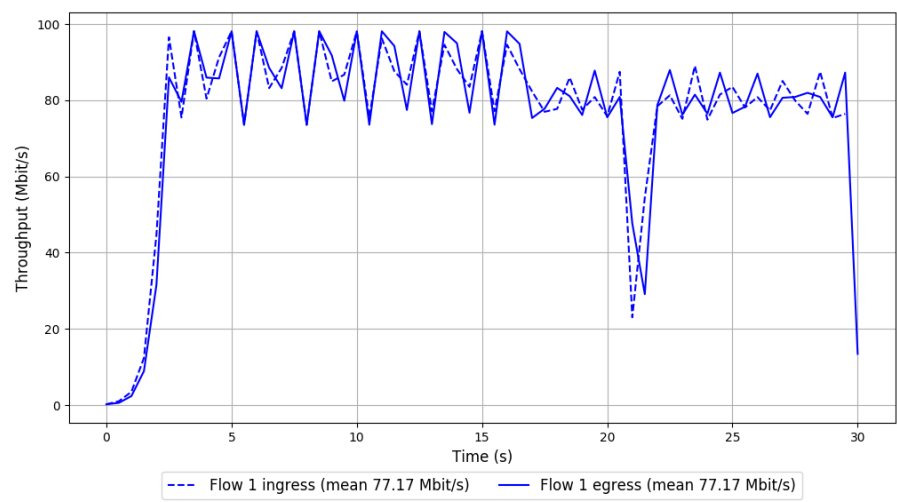
-- Flow 1:

Average throughput: 77.17 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-04-10 22:56:08

End at: 2018-04-10 22:56:38

Below is generated by plot.py at 2018-04-11 01:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.94 Mbit/s

95th percentile per-packet one-way delay: 136.069 ms

Loss rate: 0.00%

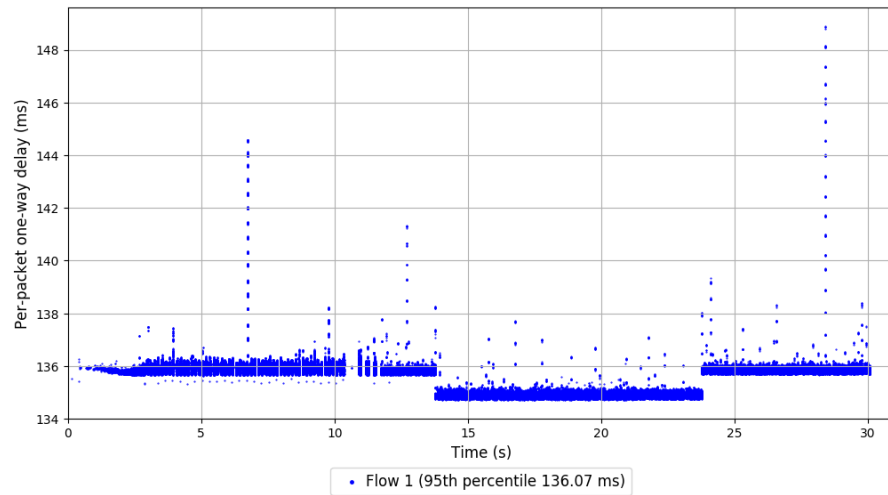
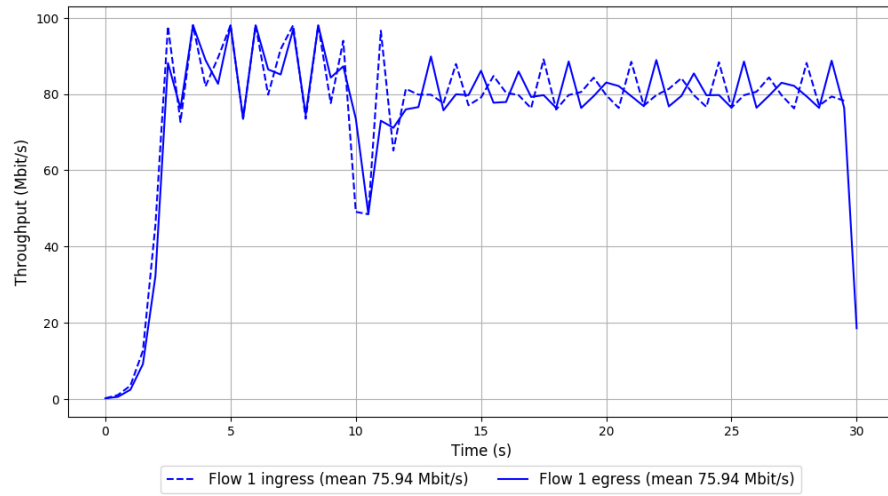
-- Flow 1:

Average throughput: 75.94 Mbit/s

95th percentile per-packet one-way delay: 136.069 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-10 23:12:03

End at: 2018-04-10 23:12:33

Below is generated by plot.py at 2018-04-11 01:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.66 Mbit/s

95th percentile per-packet one-way delay: 135.971 ms

Loss rate: 0.00%

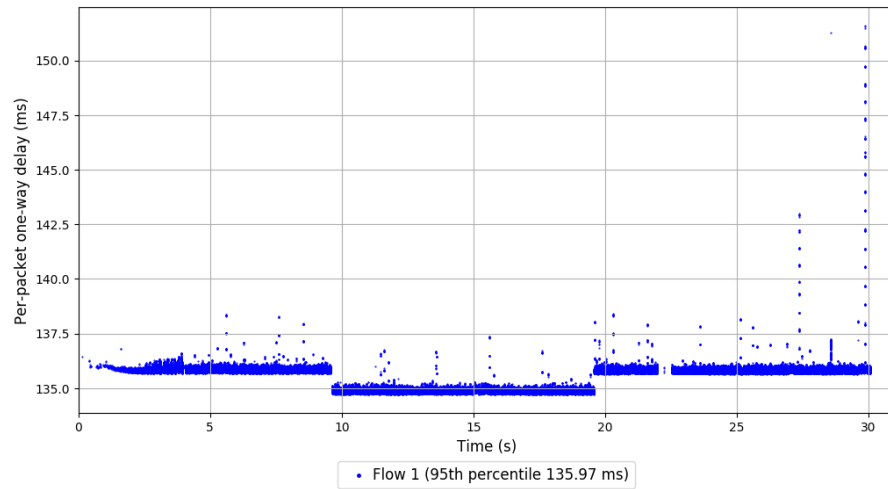
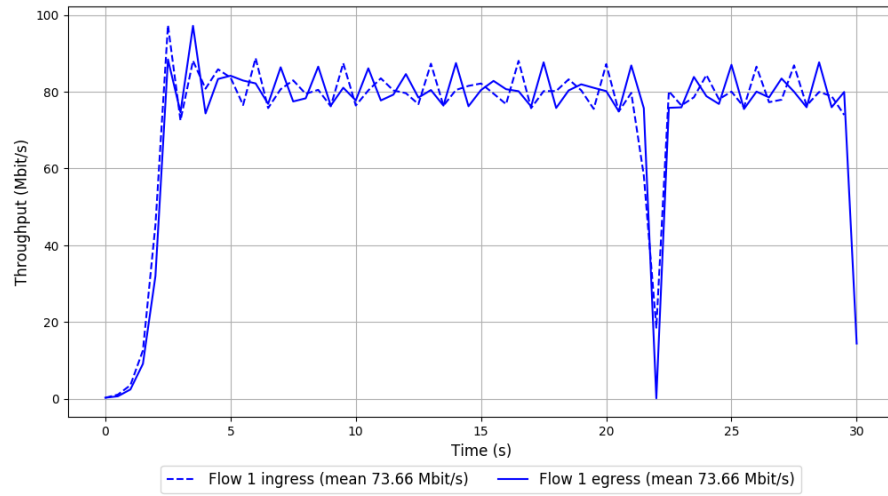
-- Flow 1:

Average throughput: 73.66 Mbit/s

95th percentile per-packet one-way delay: 135.971 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-10 23:28:16

End at: 2018-04-10 23:28:46

Below is generated by plot.py at 2018-04-11 01:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.64 Mbit/s

95th percentile per-packet one-way delay: 136.002 ms

Loss rate: 0.00%

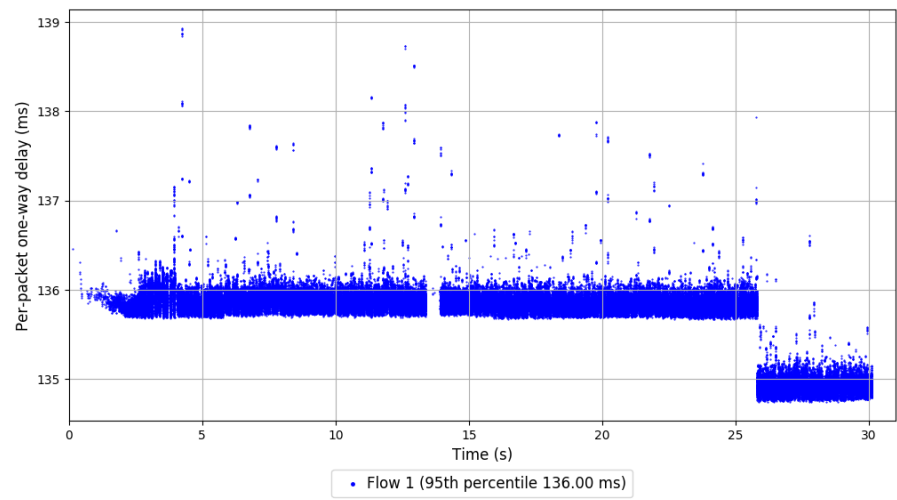
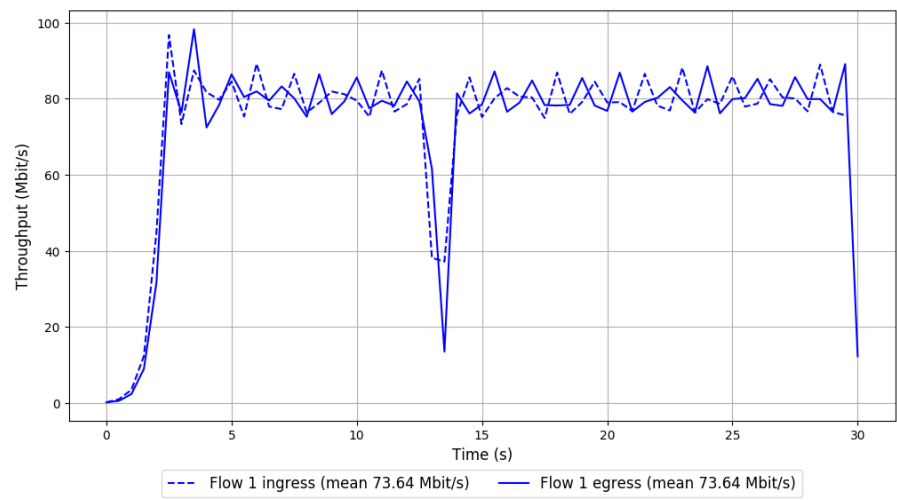
-- Flow 1:

Average throughput: 73.64 Mbit/s

95th percentile per-packet one-way delay: 136.002 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-04-10 23:44:15

End at: 2018-04-10 23:44:45

Below is generated by plot.py at 2018-04-11 01:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.27 Mbit/s

95th percentile per-packet one-way delay: 136.013 ms

Loss rate: 0.00%

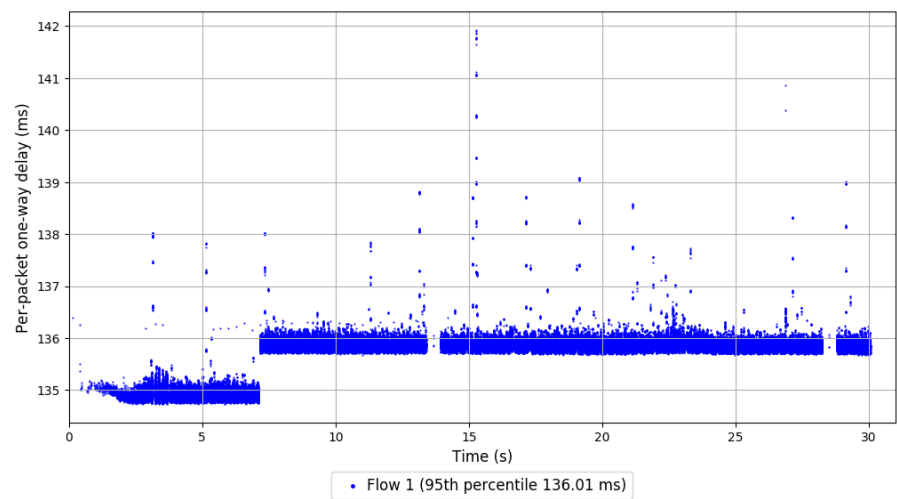
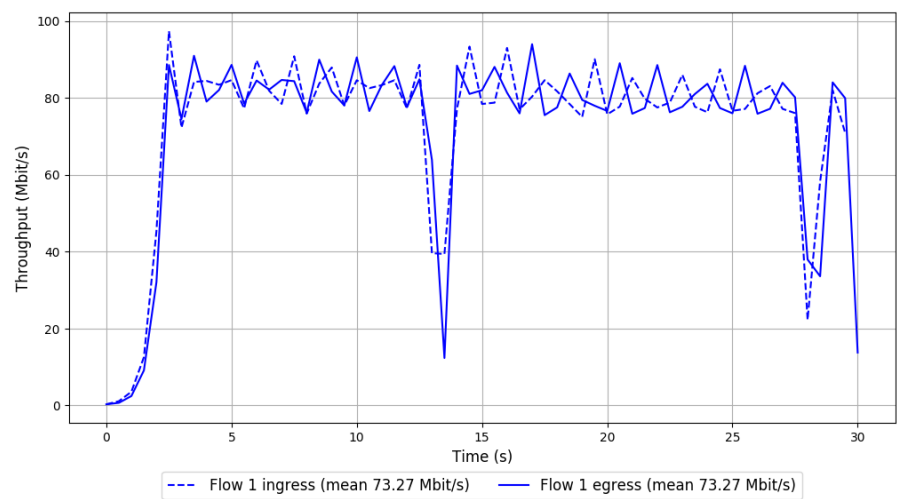
-- Flow 1:

Average throughput: 73.27 Mbit/s

95th percentile per-packet one-way delay: 136.013 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-10 23:59:53

End at: 2018-04-11 00:00:23

Below is generated by plot.py at 2018-04-11 01:49:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.53 Mbit/s

95th percentile per-packet one-way delay: 136.263 ms

Loss rate: 0.00%

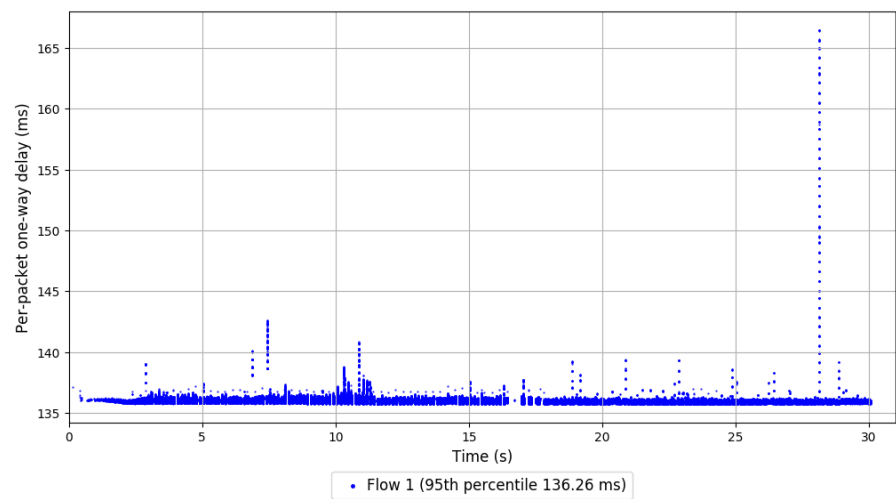
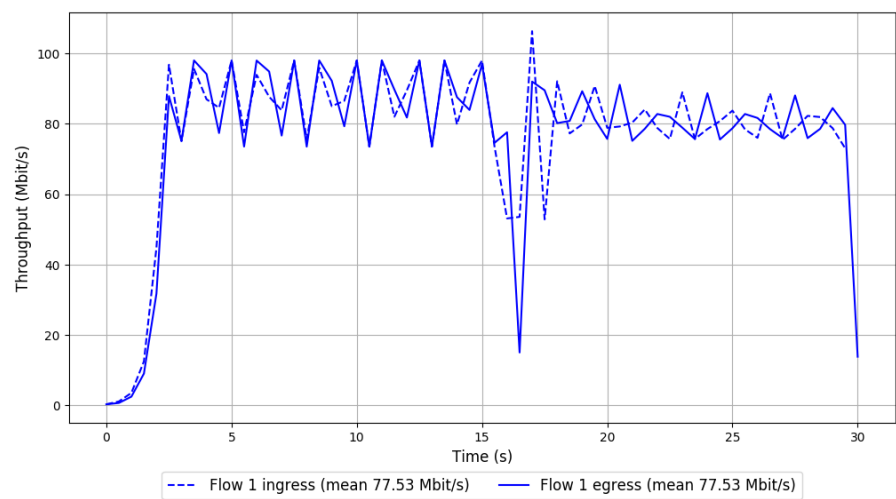
-- Flow 1:

Average throughput: 77.53 Mbit/s

95th percentile per-packet one-way delay: 136.263 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-11 00:15:57

End at: 2018-04-11 00:16:27

Below is generated by plot.py at 2018-04-11 01:51:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.10 Mbit/s

95th percentile per-packet one-way delay: 136.258 ms

Loss rate: 0.00%

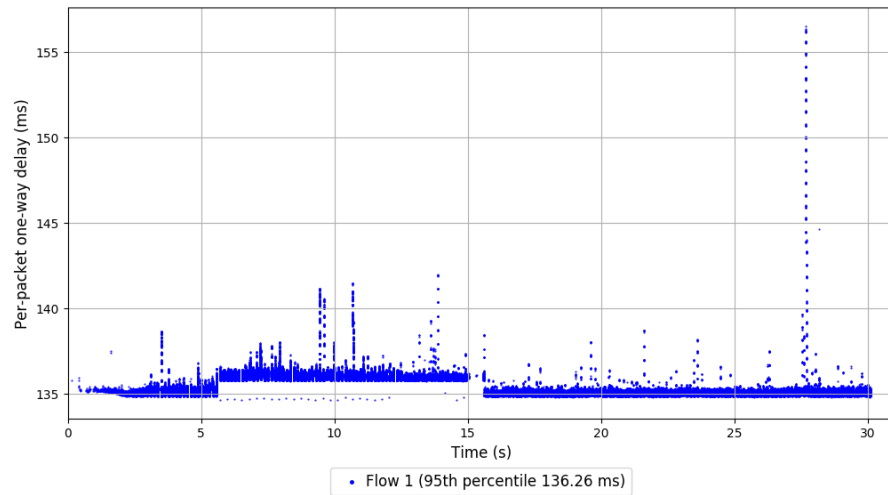
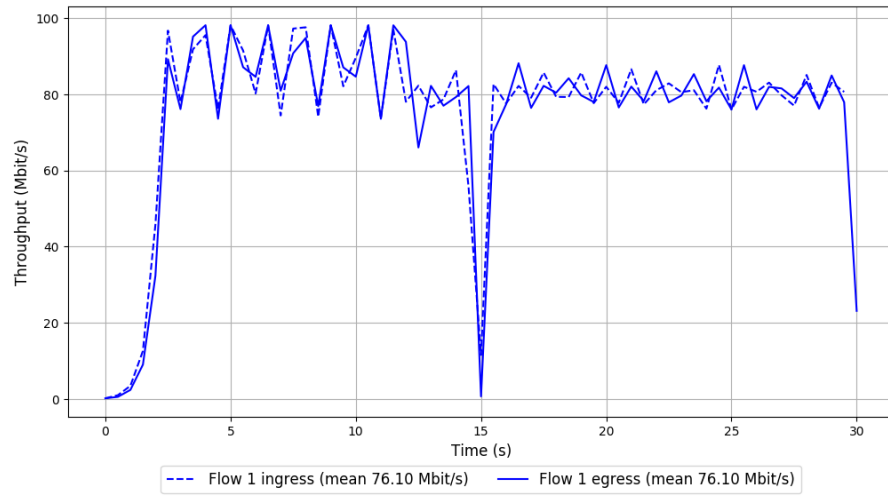
-- Flow 1:

Average throughput: 76.10 Mbit/s

95th percentile per-packet one-way delay: 136.258 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-04-11 00:31:43

End at: 2018-04-11 00:32:13

Below is generated by plot.py at 2018-04-11 01:51:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.05 Mbit/s

95th percentile per-packet one-way delay: 136.137 ms

Loss rate: 0.00%

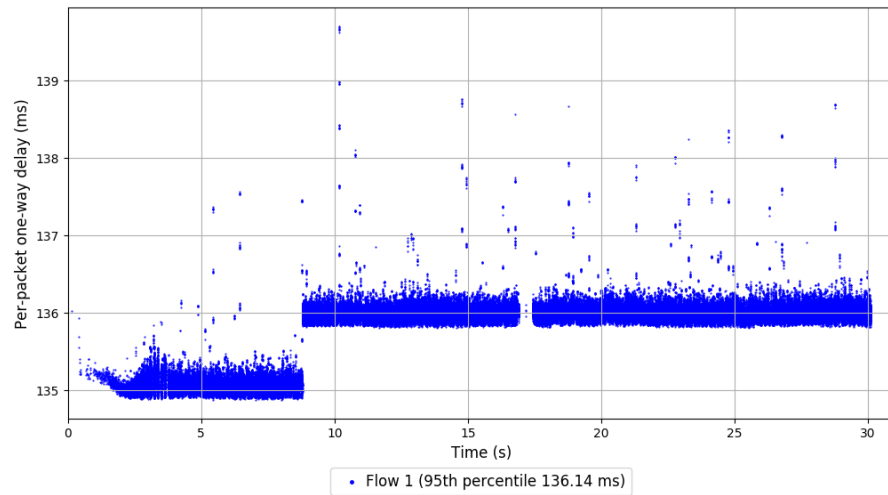
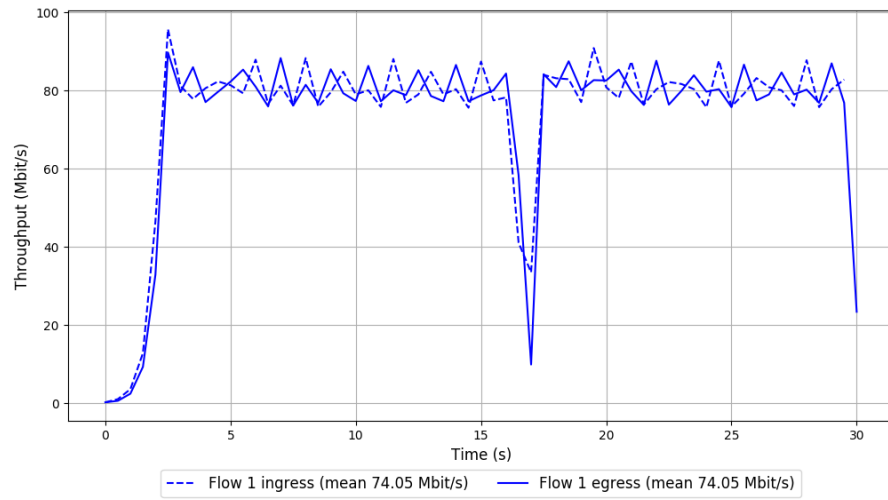
-- Flow 1:

Average throughput: 74.05 Mbit/s

95th percentile per-packet one-way delay: 136.137 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-04-10 22:13:16

End at: 2018-04-10 22:13:46

Below is generated by plot.py at 2018-04-11 01:51:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.53 Mbit/s

95th percentile per-packet one-way delay: 140.205 ms

Loss rate: 0.00%

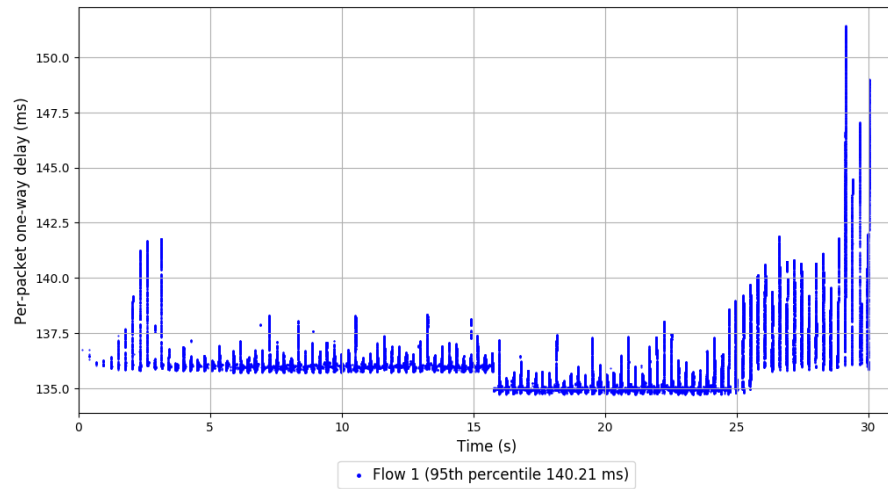
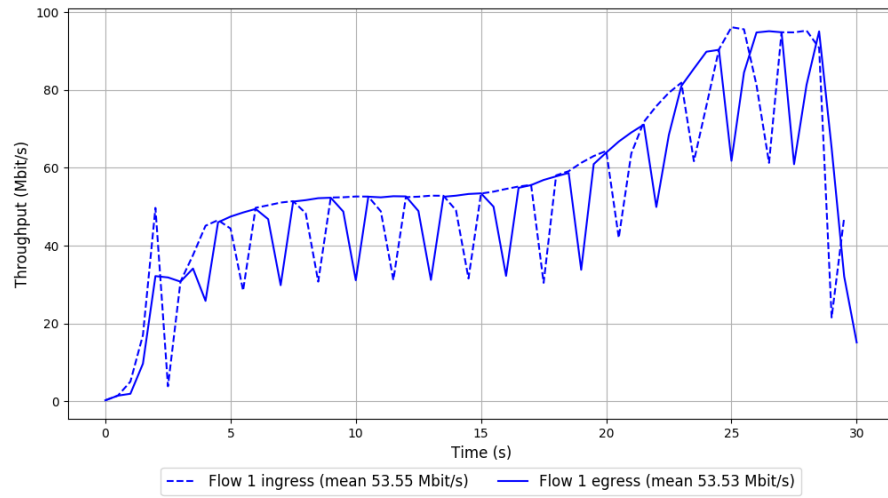
-- Flow 1:

Average throughput: 53.53 Mbit/s

95th percentile per-packet one-way delay: 140.205 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-04-10 22:29:24

End at: 2018-04-10 22:29:54

Below is generated by plot.py at 2018-04-11 01:51:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.31 Mbit/s

95th percentile per-packet one-way delay: 140.178 ms

Loss rate: 0.00%

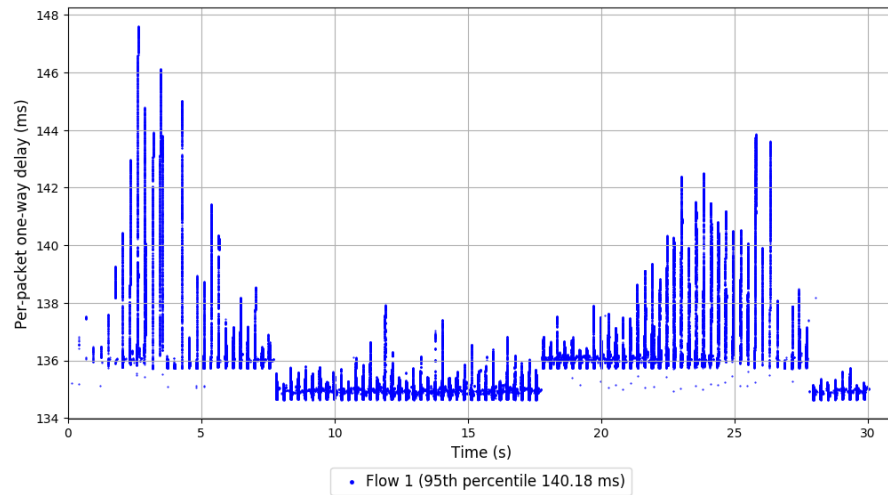
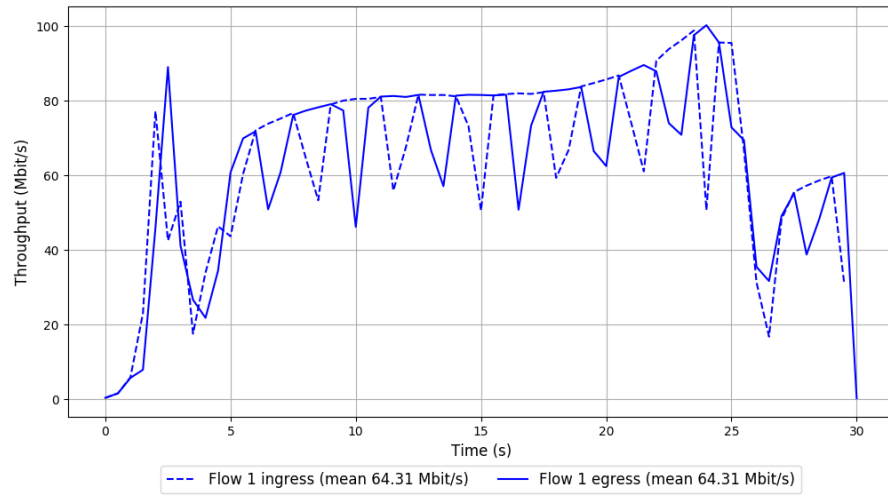
-- Flow 1:

Average throughput: 64.31 Mbit/s

95th percentile per-packet one-way delay: 140.178 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-04-10 22:45:17

End at: 2018-04-10 22:45:47

Below is generated by plot.py at 2018-04-11 01:51:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.37 Mbit/s

95th percentile per-packet one-way delay: 140.055 ms

Loss rate: 0.00%

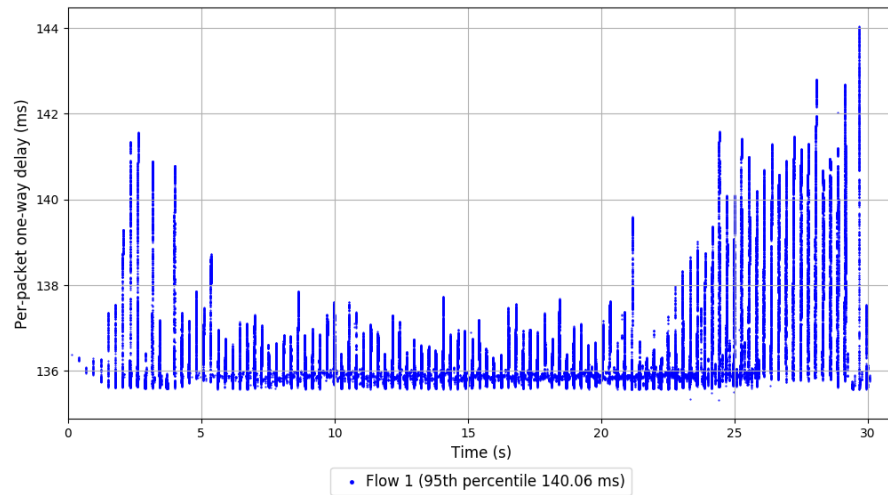
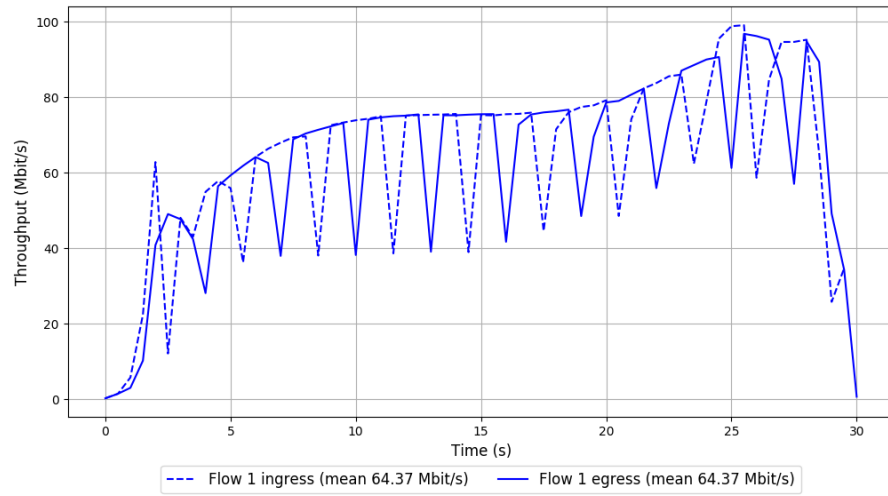
-- Flow 1:

Average throughput: 64.37 Mbit/s

95th percentile per-packet one-way delay: 140.055 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-04-10 23:01:06

End at: 2018-04-10 23:01:36

Below is generated by plot.py at 2018-04-11 01:51:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.98 Mbit/s

95th percentile per-packet one-way delay: 141.697 ms

Loss rate: 0.00%

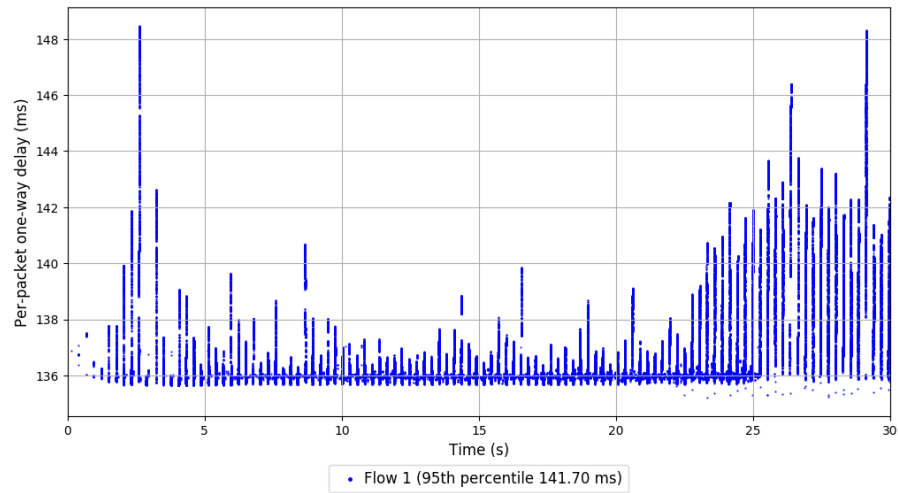
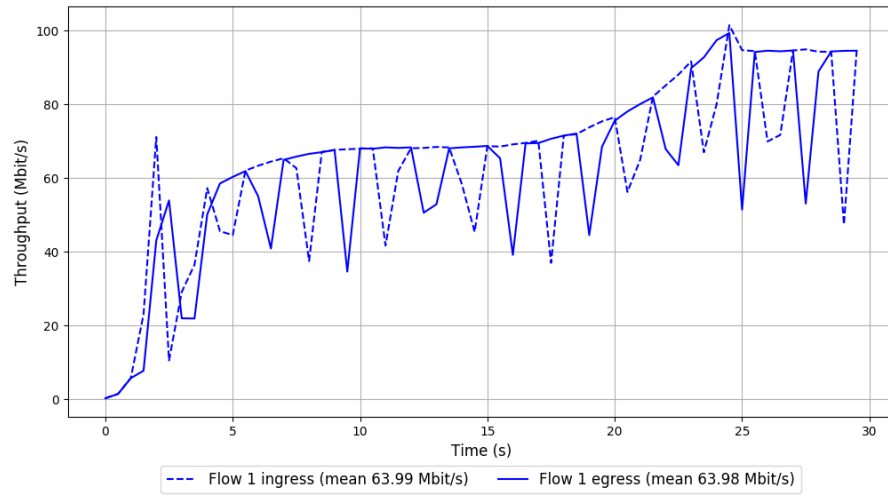
-- Flow 1:

Average throughput: 63.98 Mbit/s

95th percentile per-packet one-way delay: 141.697 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-10 23:17:21

End at: 2018-04-10 23:17:51

Below is generated by plot.py at 2018-04-11 01:51:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.15 Mbit/s

95th percentile per-packet one-way delay: 140.255 ms

Loss rate: 0.00%

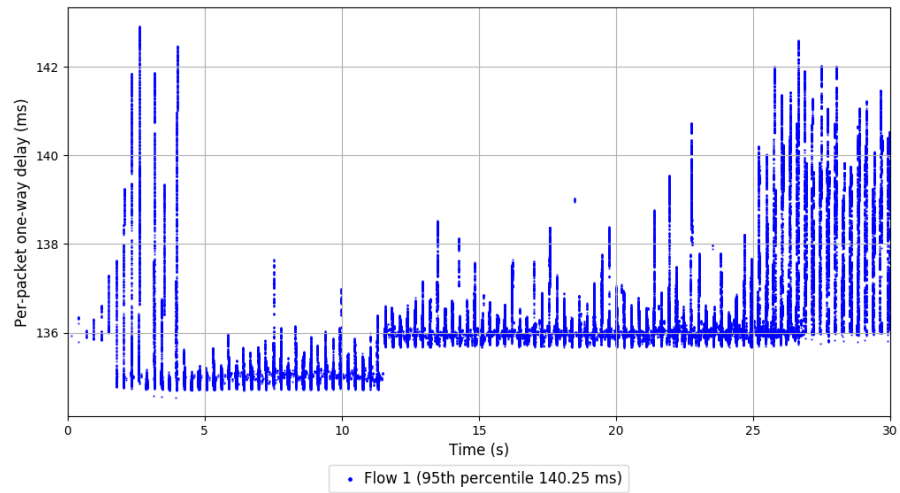
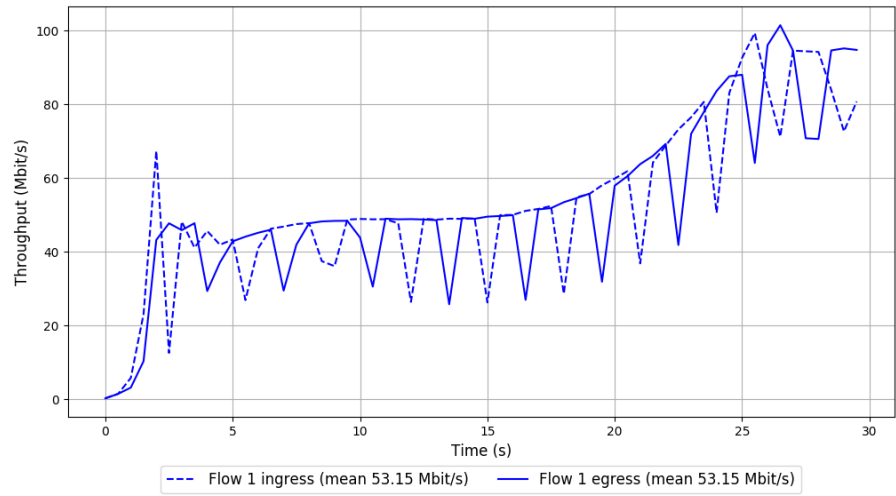
-- Flow 1:

Average throughput: 53.15 Mbit/s

95th percentile per-packet one-way delay: 140.255 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-04-10 23:33:15

End at: 2018-04-10 23:33:46

Below is generated by plot.py at 2018-04-11 01:51:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.76 Mbit/s

95th percentile per-packet one-way delay: 141.262 ms

Loss rate: 0.00%

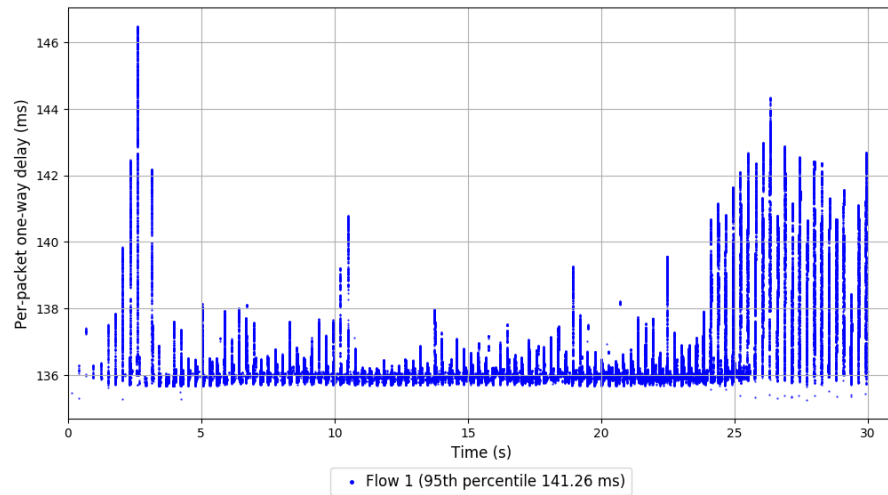
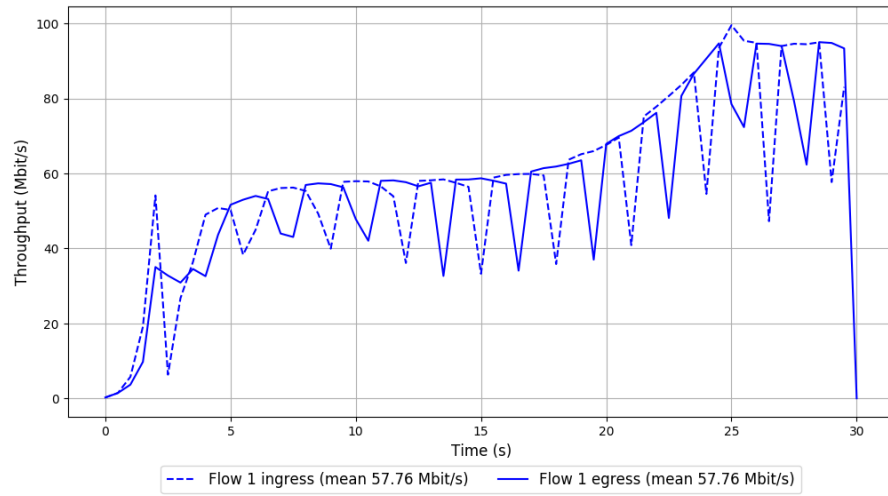
-- Flow 1:

Average throughput: 57.76 Mbit/s

95th percentile per-packet one-way delay: 141.262 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-10 23:49:24

End at: 2018-04-10 23:49:54

Below is generated by plot.py at 2018-04-11 01:51:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.03 Mbit/s

95th percentile per-packet one-way delay: 141.840 ms

Loss rate: 0.00%

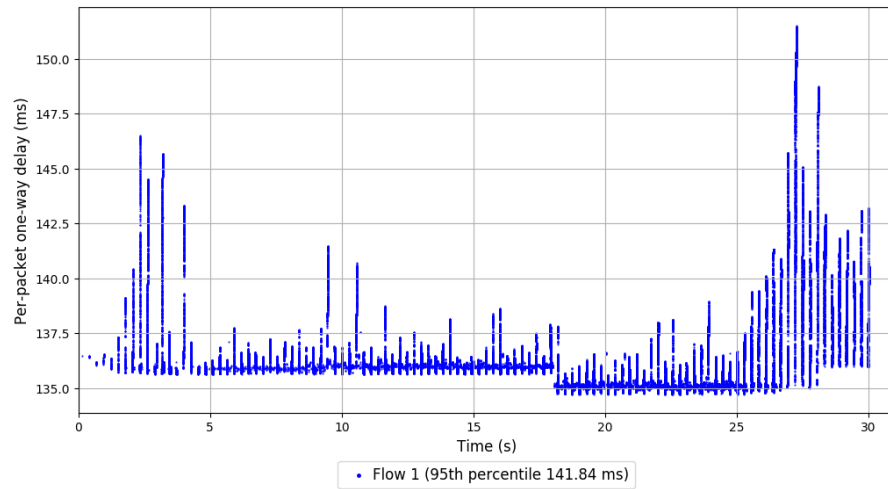
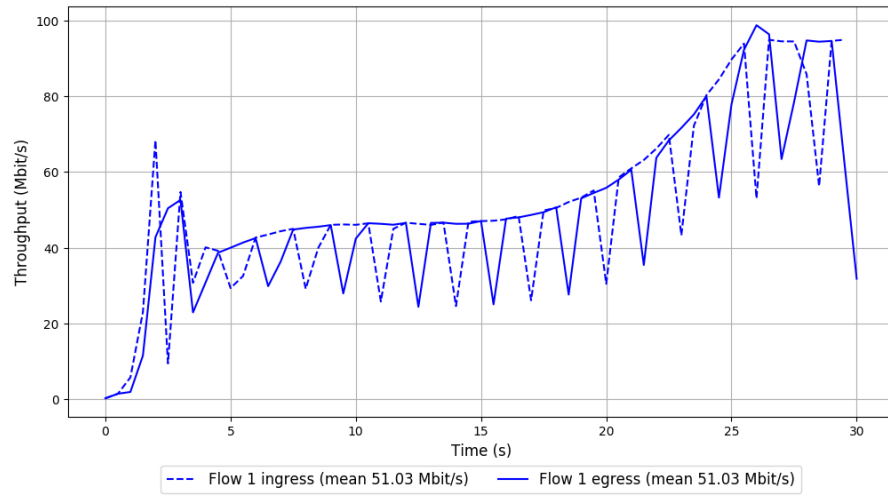
-- Flow 1:

Average throughput: 51.03 Mbit/s

95th percentile per-packet one-way delay: 141.840 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-04-11 00:05:04

End at: 2018-04-11 00:05:34

Below is generated by plot.py at 2018-04-11 01:51:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.95 Mbit/s

95th percentile per-packet one-way delay: 140.148 ms

Loss rate: 0.00%

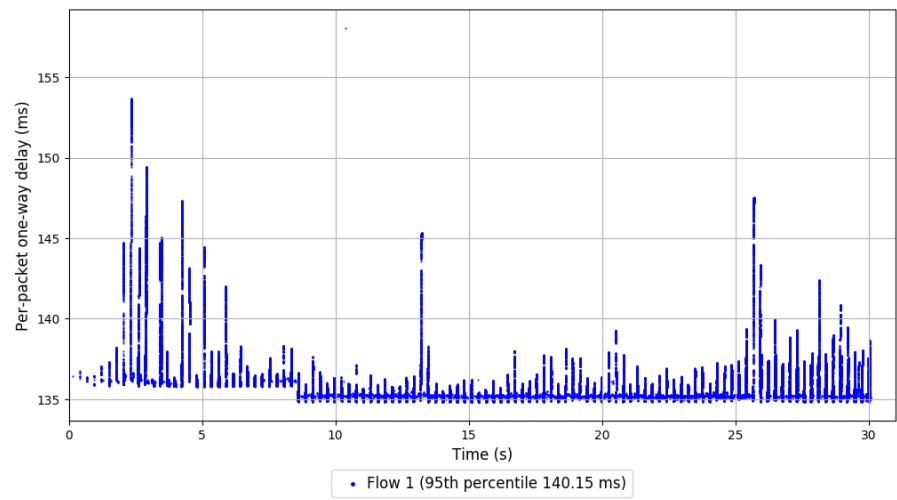
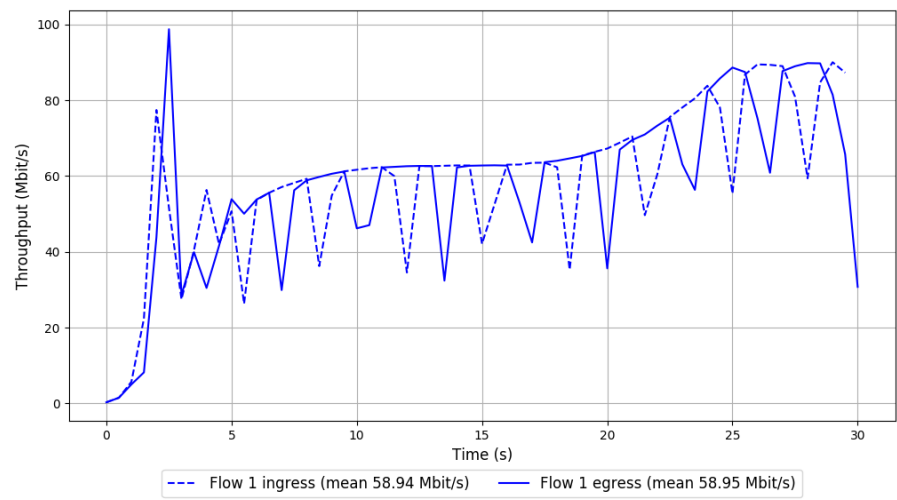
-- Flow 1:

Average throughput: 58.95 Mbit/s

95th percentile per-packet one-way delay: 140.148 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-11 00:20:50

End at: 2018-04-11 00:21:20

Below is generated by plot.py at 2018-04-11 01:51:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.88 Mbit/s

95th percentile per-packet one-way delay: 141.341 ms

Loss rate: 0.00%

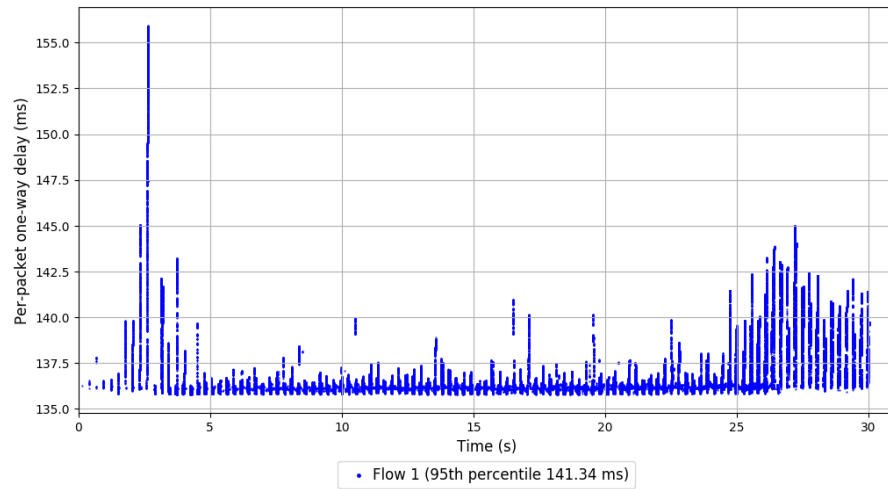
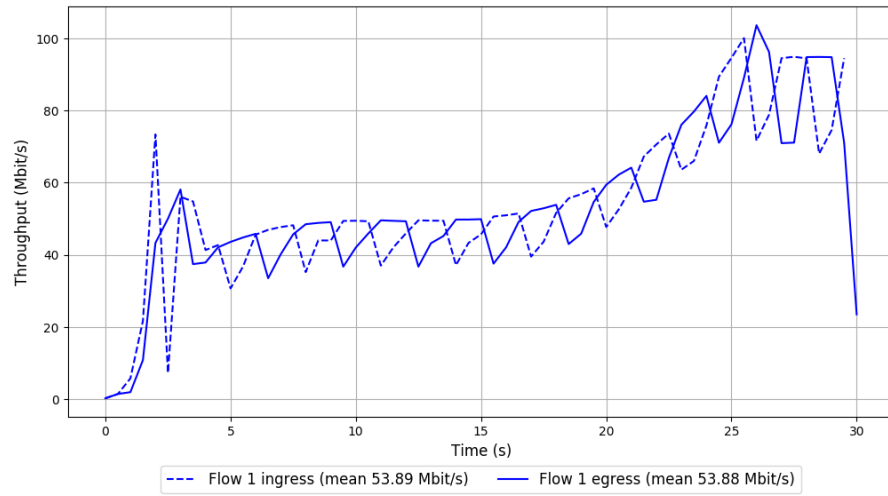
-- Flow 1:

Average throughput: 53.88 Mbit/s

95th percentile per-packet one-way delay: 141.341 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-11 00:36:42

End at: 2018-04-11 00:37:12

Below is generated by plot.py at 2018-04-11 01:51:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.32 Mbit/s

95th percentile per-packet one-way delay: 143.473 ms

Loss rate: 0.00%

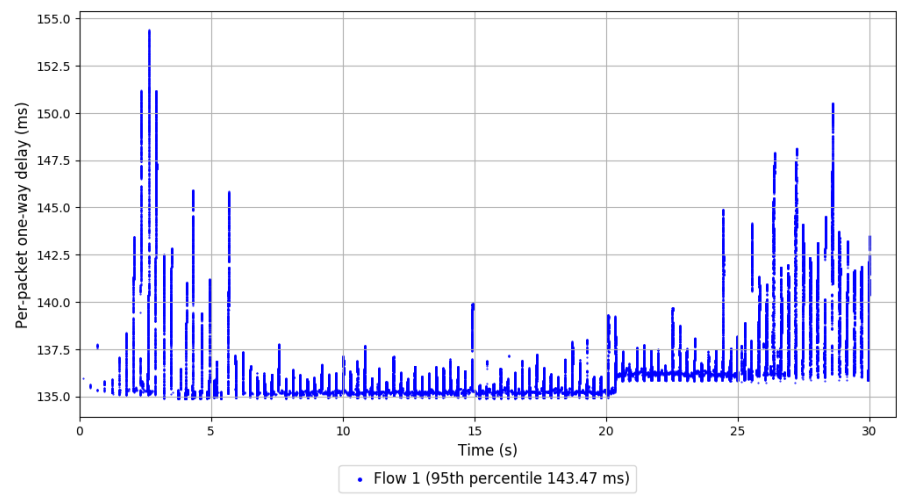
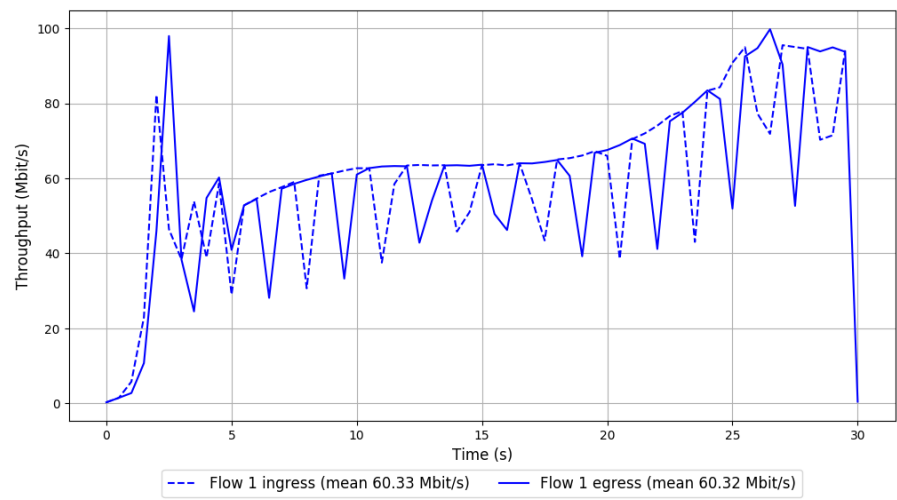
-- Flow 1:

Average throughput: 60.32 Mbit/s

95th percentile per-packet one-way delay: 143.473 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

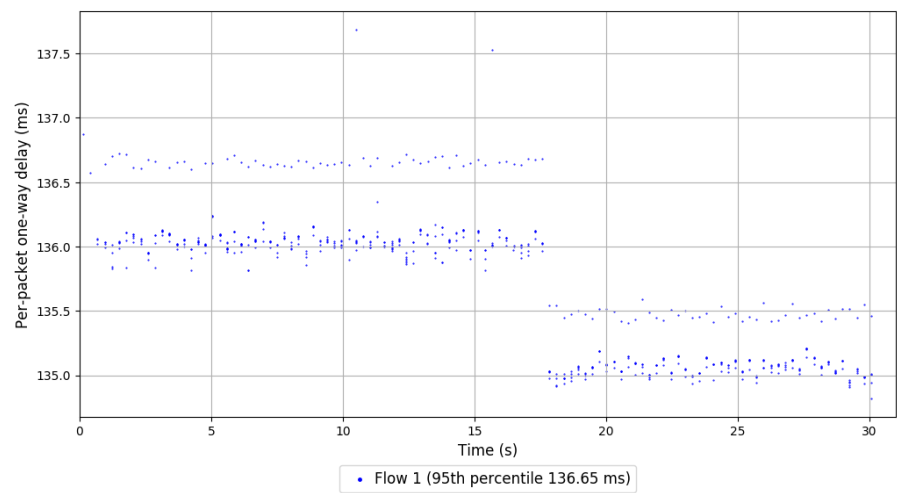
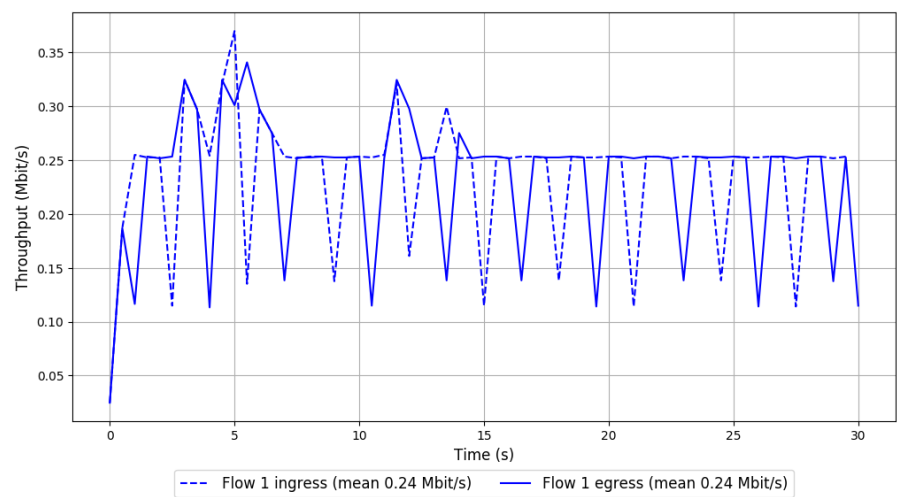


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-10 22:12:35
End at: 2018-04-10 22:13:05

# Below is generated by plot.py at 2018-04-11 01:51:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 136.654 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 136.654 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

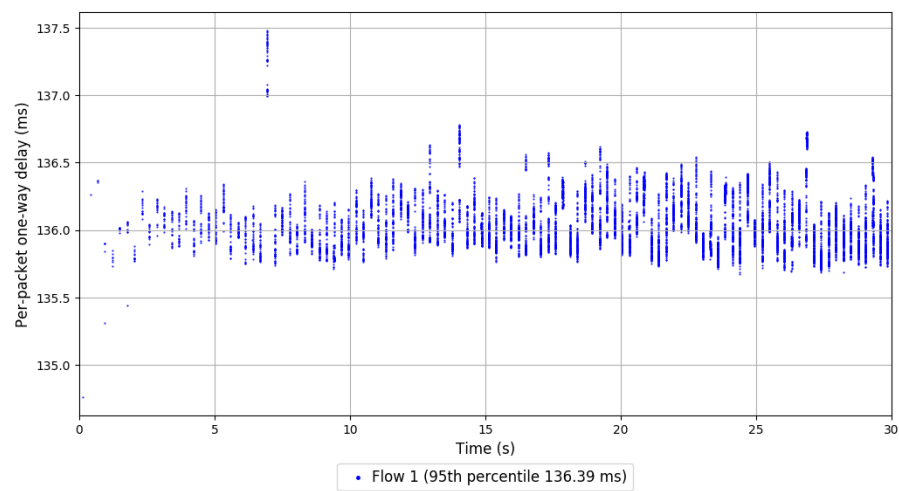
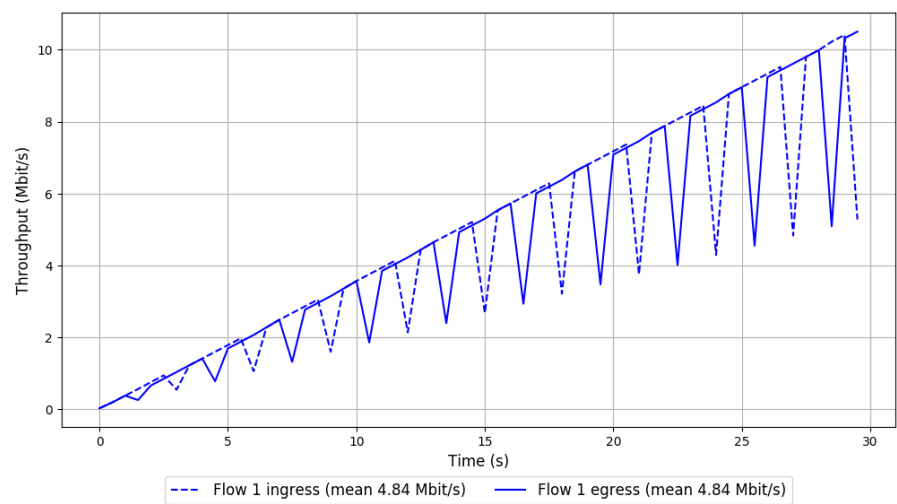


```
Run 2: Statistics of LEDBAT

Start at: 2018-04-10 22:28:41
End at: 2018-04-10 22:29:12

# Below is generated by plot.py at 2018-04-11 01:51:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.84 Mbit/s
95th percentile per-packet one-way delay: 136.388 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.84 Mbit/s
95th percentile per-packet one-way delay: 136.388 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-10 22:44:34

End at: 2018-04-10 22:45:05

Below is generated by plot.py at 2018-04-11 01:51:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.84 Mbit/s

95th percentile per-packet one-way delay: 136.572 ms

Loss rate: 0.00%

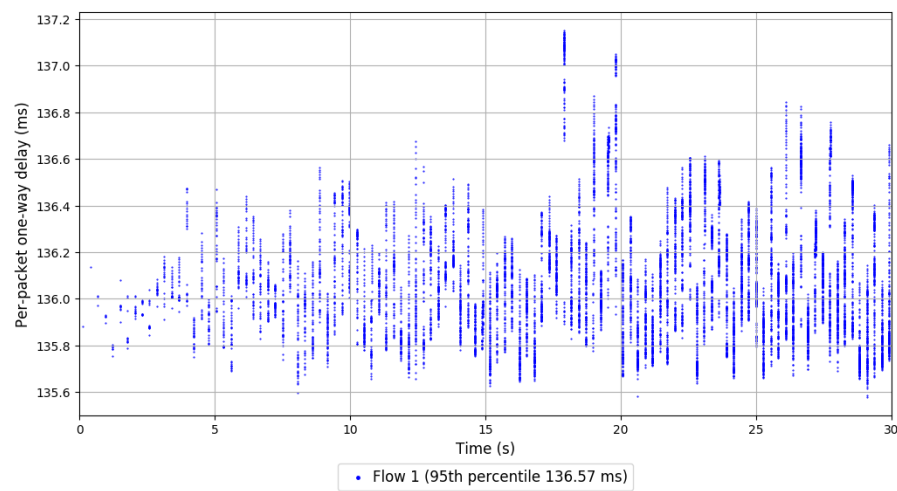
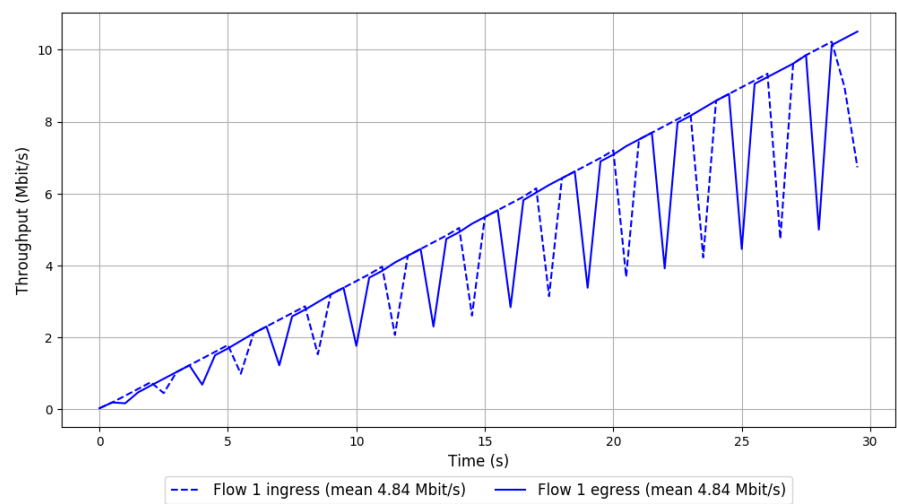
-- Flow 1:

Average throughput: 4.84 Mbit/s

95th percentile per-packet one-way delay: 136.572 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-04-10 23:00:23

End at: 2018-04-10 23:00:53

Below is generated by plot.py at 2018-04-11 01:52:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.68 Mbit/s

95th percentile per-packet one-way delay: 136.089 ms

Loss rate: 0.00%

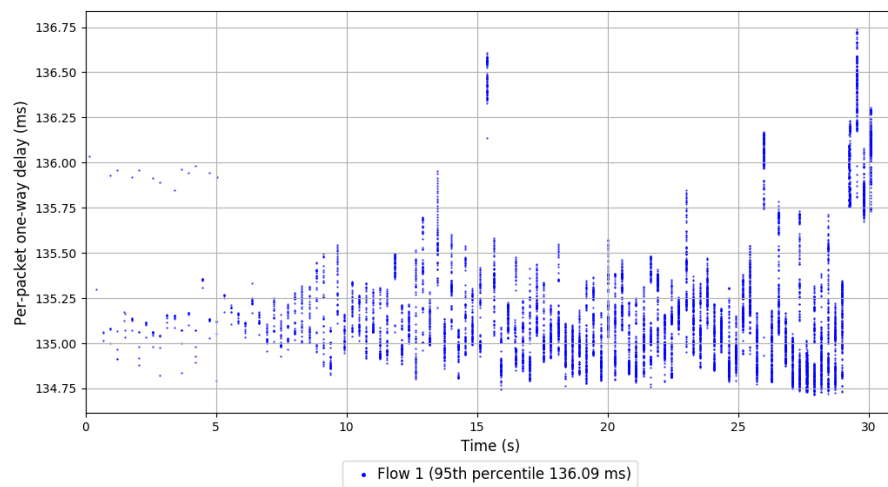
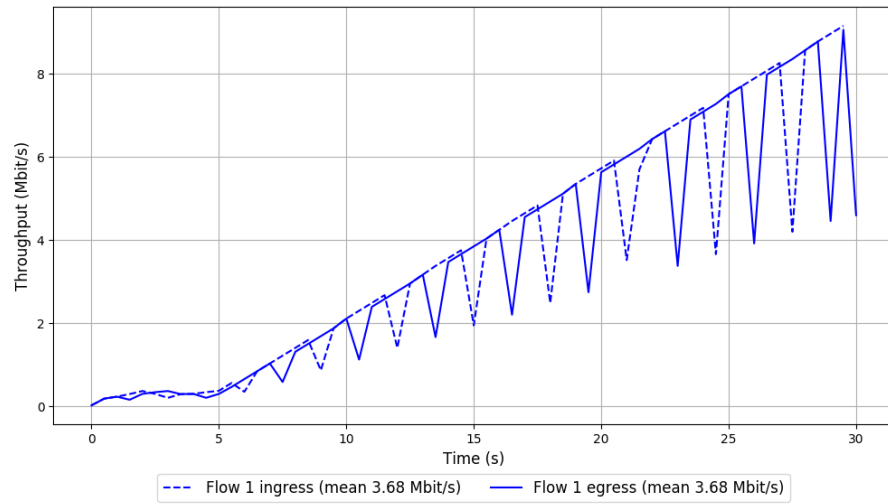
-- Flow 1:

Average throughput: 3.68 Mbit/s

95th percentile per-packet one-way delay: 136.089 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-10 23:16:38

End at: 2018-04-10 23:17:08

Below is generated by plot.py at 2018-04-11 01:52:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 136.393 ms

Loss rate: 0.00%

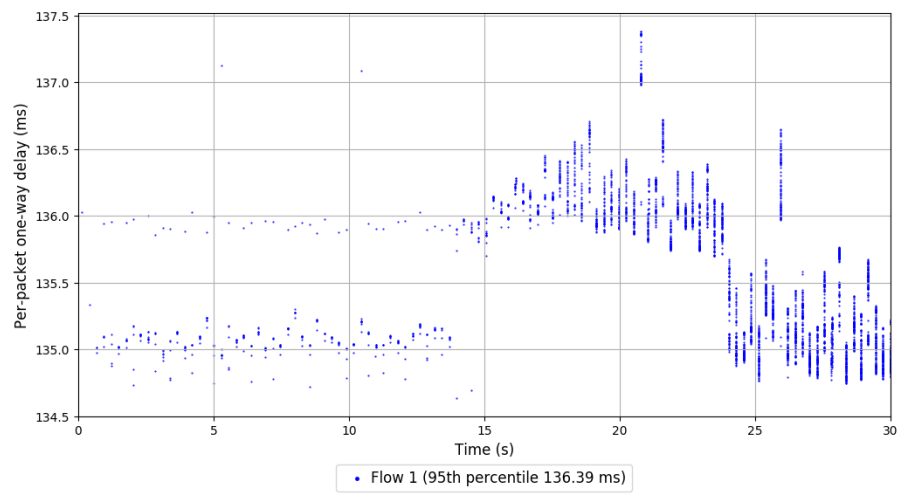
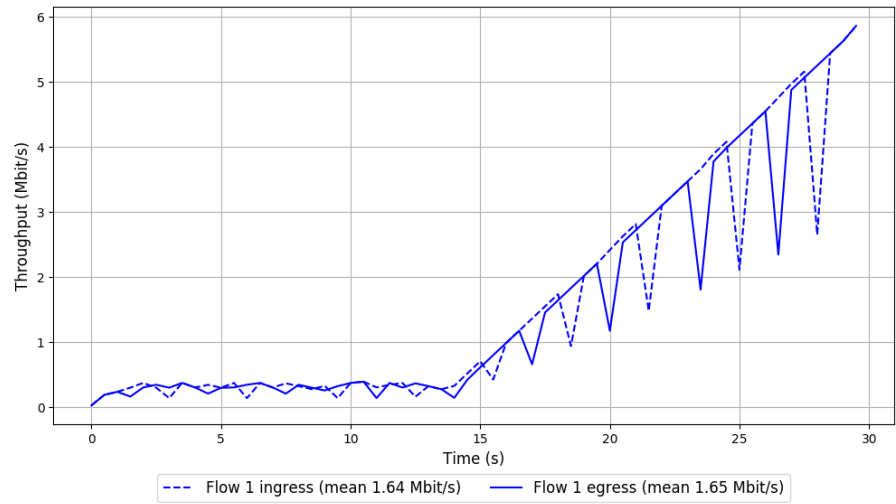
-- Flow 1:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 136.393 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-04-10 23:32:33

End at: 2018-04-10 23:33:03

Below is generated by plot.py at 2018-04-11 01:52:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.84 Mbit/s

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

Loss rate: 0.00%

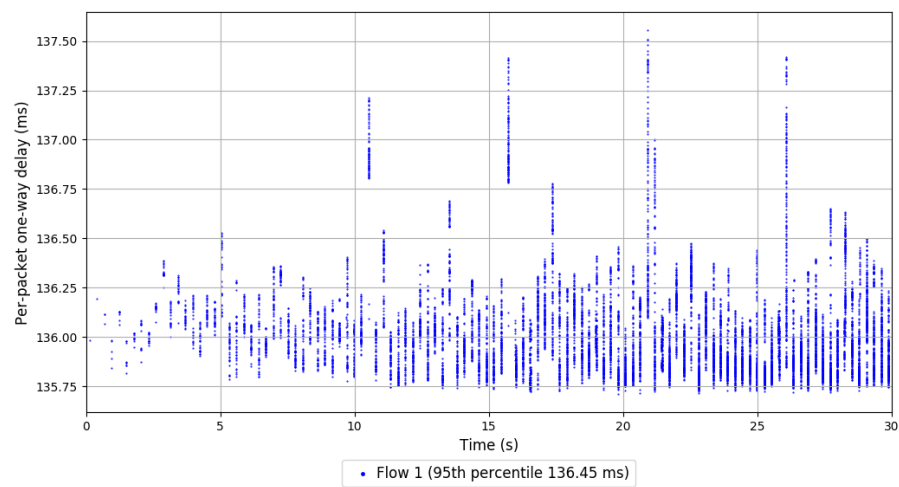
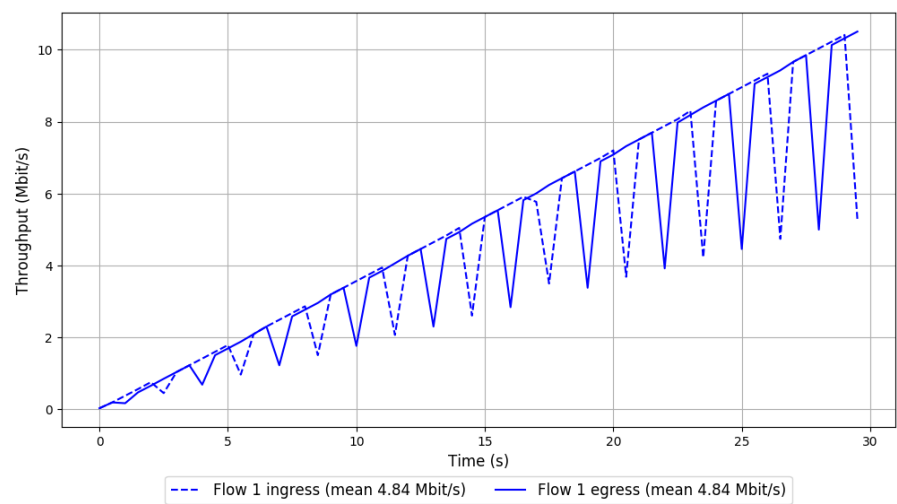
-- Flow 1:

Average throughput: 4.84 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-04-10 23:48:41

End at: 2018-04-10 23:49:11

Below is generated by plot.py at 2018-04-11 01:52:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.61 Mbit/s

95th percentile per-packet one-way delay: 136.429 ms

Loss rate: 0.00%

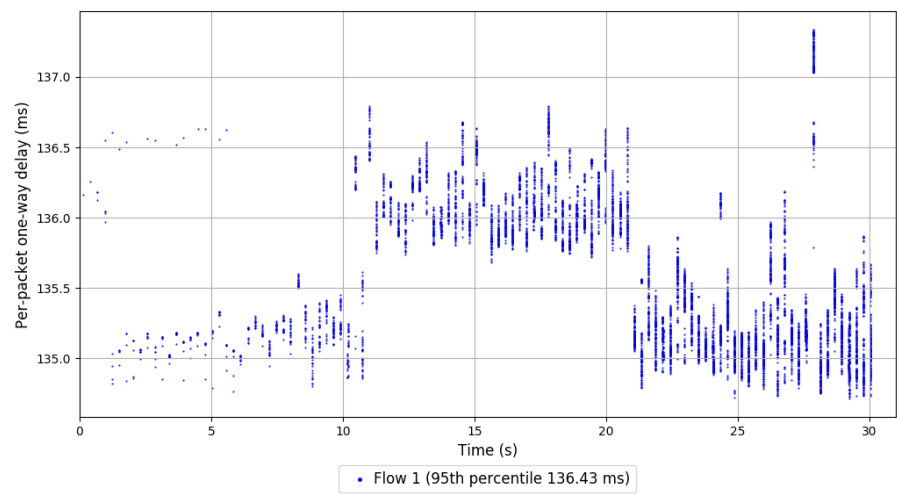
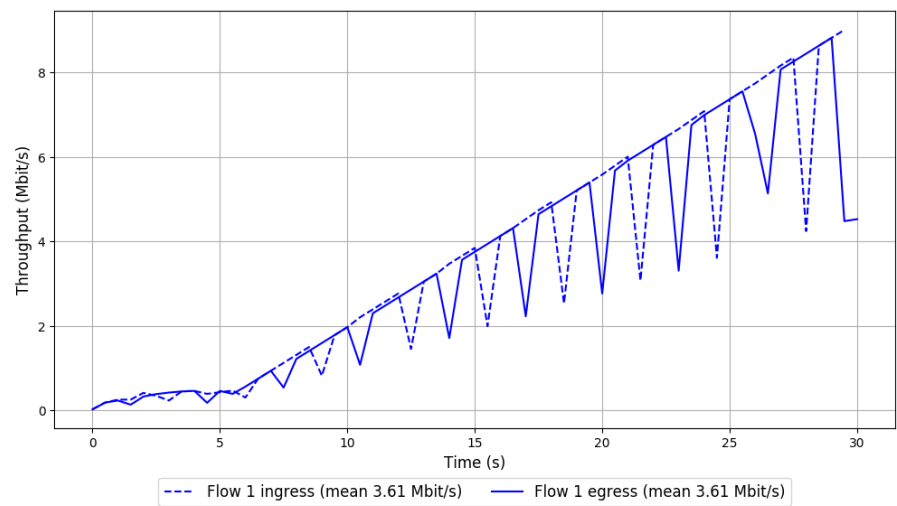
-- Flow 1:

Average throughput: 3.61 Mbit/s

95th percentile per-packet one-way delay: 136.429 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-11 00:04:21

End at: 2018-04-11 00:04:51

Below is generated by plot.py at 2018-04-11 01:52:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 137.386 ms

Loss rate: 0.00%

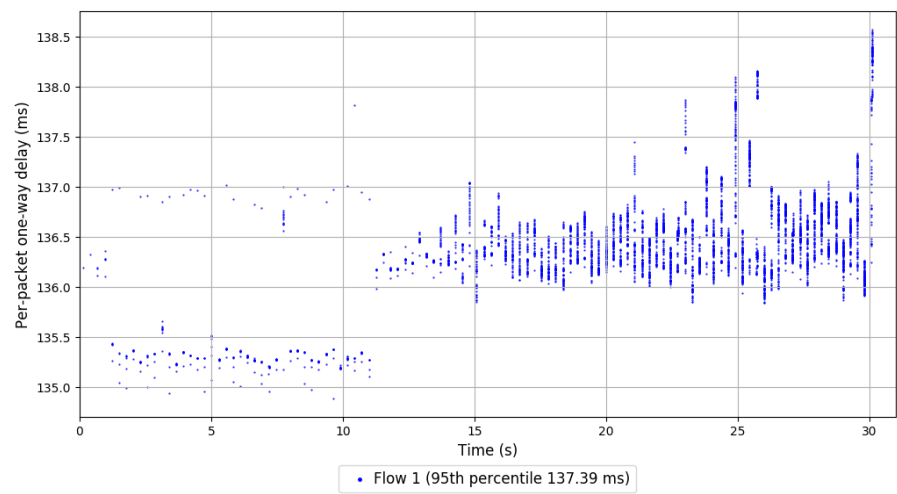
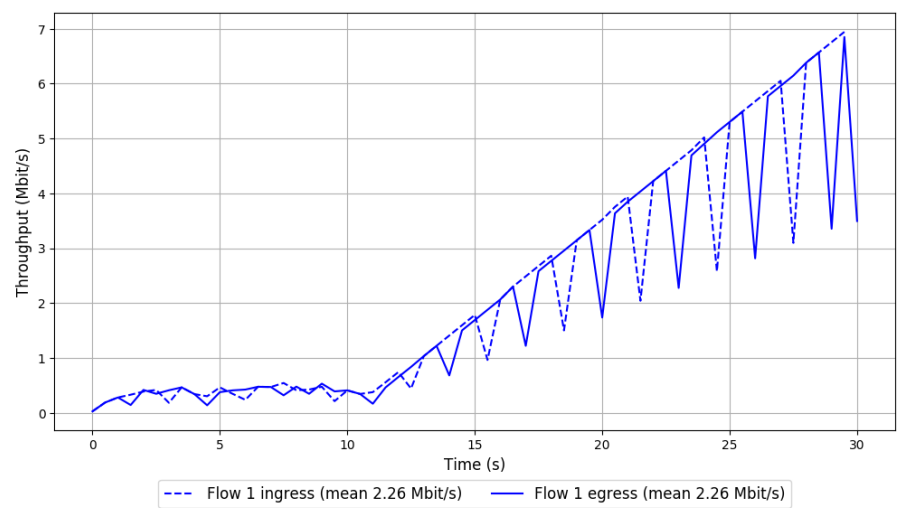
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 137.386 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-04-11 00:20:07

End at: 2018-04-11 00:20:37

Below is generated by plot.py at 2018-04-11 01:52:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.83 Mbit/s

95th percentile per-packet one-way delay: 137.358 ms

Loss rate: 0.00%

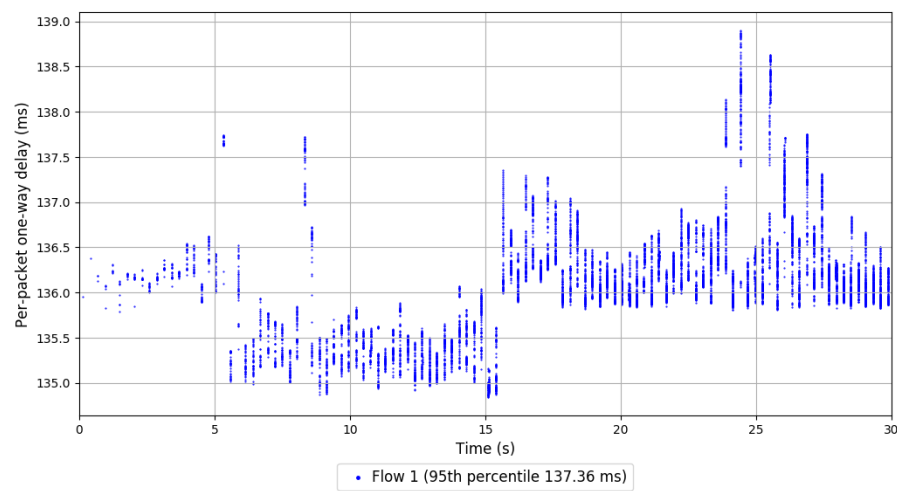
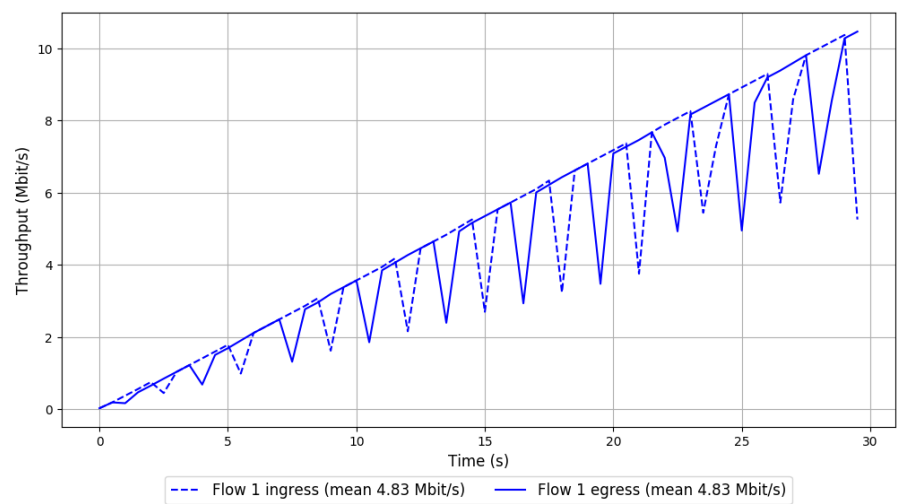
-- Flow 1:

Average throughput: 4.83 Mbit/s

95th percentile per-packet one-way delay: 137.358 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-11 00:35:59

End at: 2018-04-11 00:36:29

Below is generated by plot.py at 2018-04-11 01:52:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.04 Mbit/s

95th percentile per-packet one-way delay: 137.266 ms

Loss rate: 0.00%

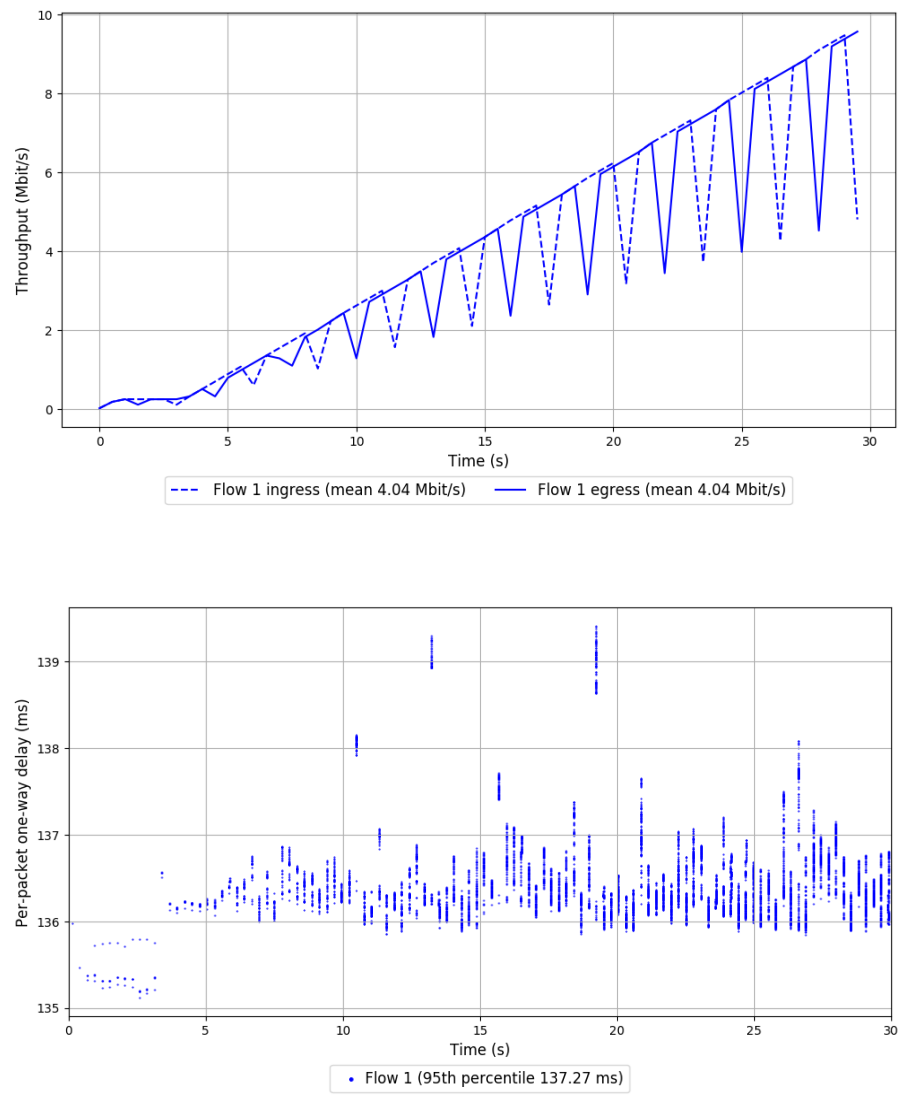
-- Flow 1:

Average throughput: 4.04 Mbit/s

95th percentile per-packet one-way delay: 137.266 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

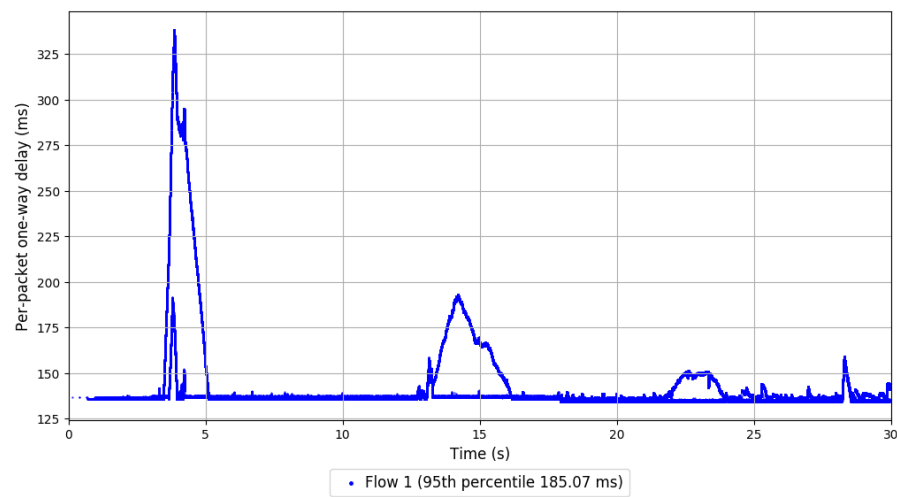
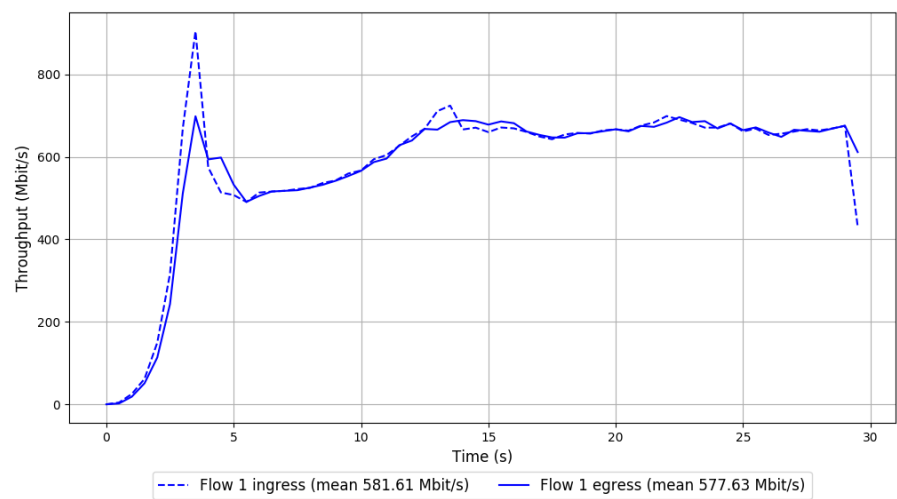


```
Run 1: Statistics of PCC

Start at: 2018-04-10 22:20:14
End at: 2018-04-10 22:20:44

# Below is generated by plot.py at 2018-04-11 02:00:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 577.63 Mbit/s
95th percentile per-packet one-way delay: 185.066 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 577.63 Mbit/s
95th percentile per-packet one-way delay: 185.066 ms
Loss rate: 0.69%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-04-10 22:36:29

End at: 2018-04-10 22:36:59

Below is generated by plot.py at 2018-04-11 02:00:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 544.46 Mbit/s

95th percentile per-packet one-way delay: 176.645 ms

Loss rate: 0.44%

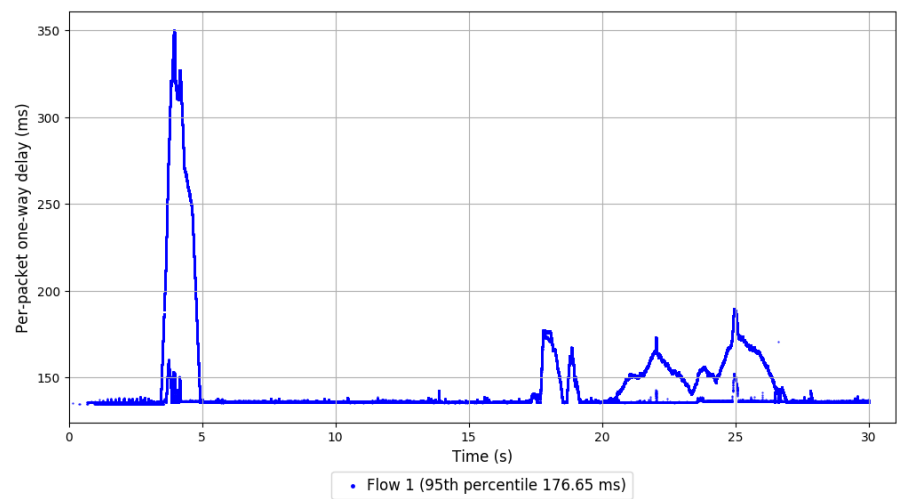
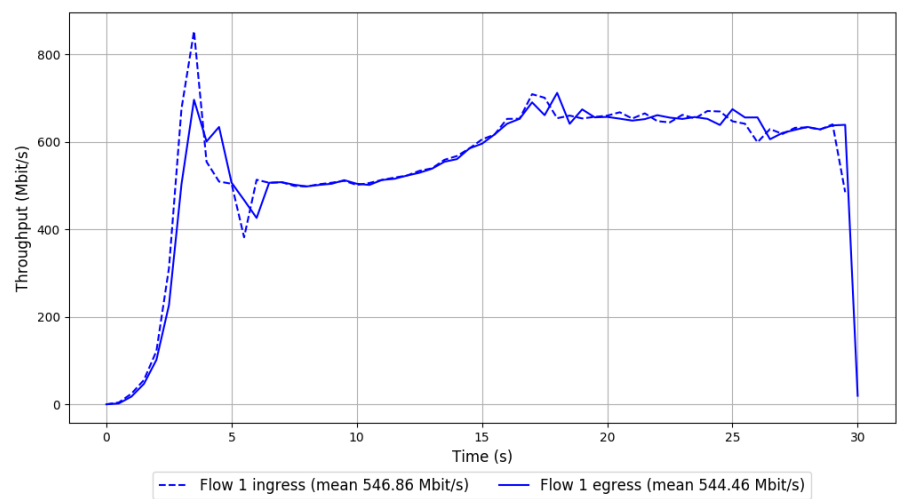
-- Flow 1:

Average throughput: 544.46 Mbit/s

95th percentile per-packet one-way delay: 176.645 ms

Loss rate: 0.44%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-04-10 22:52:20

End at: 2018-04-10 22:52:50

Below is generated by plot.py at 2018-04-11 02:00:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 554.67 Mbit/s

95th percentile per-packet one-way delay: 261.679 ms

Loss rate: 2.33%

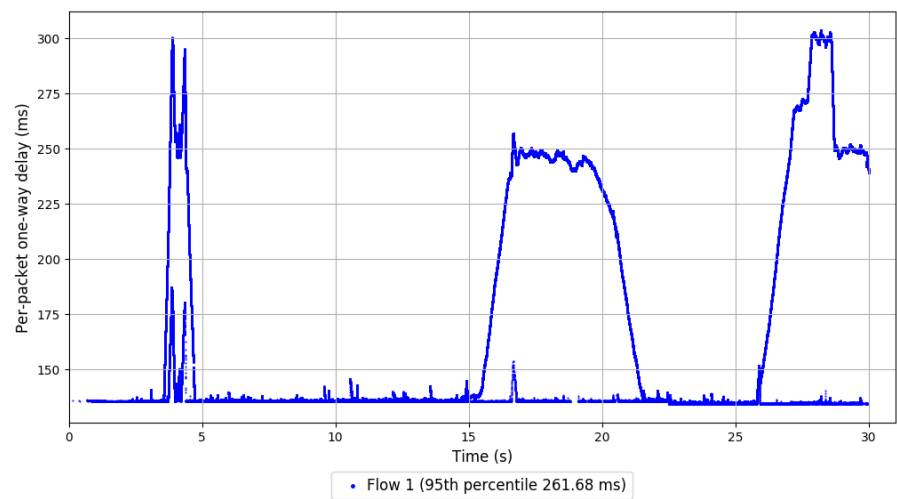
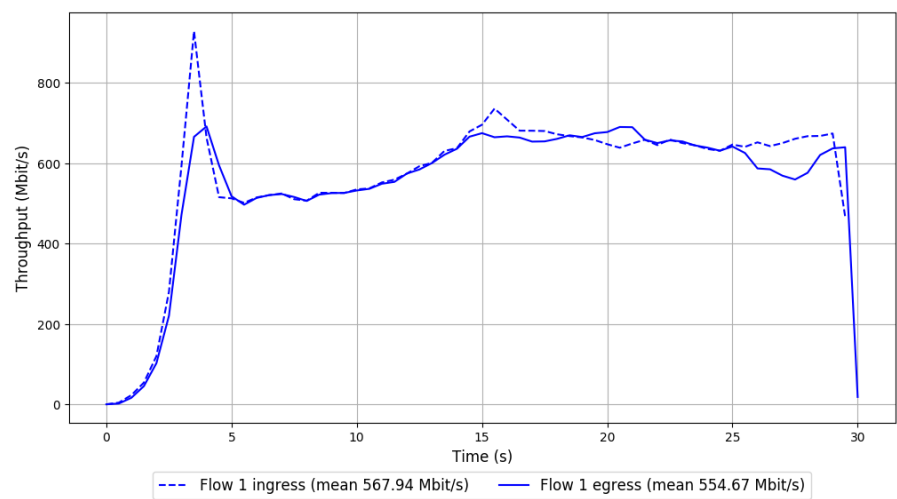
-- Flow 1:

Average throughput: 554.67 Mbit/s

95th percentile per-packet one-way delay: 261.679 ms

Loss rate: 2.33%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-04-10 23:08:16

End at: 2018-04-10 23:08:46

Below is generated by plot.py at 2018-04-11 02:00:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 482.52 Mbit/s

95th percentile per-packet one-way delay: 268.701 ms

Loss rate: 3.13%

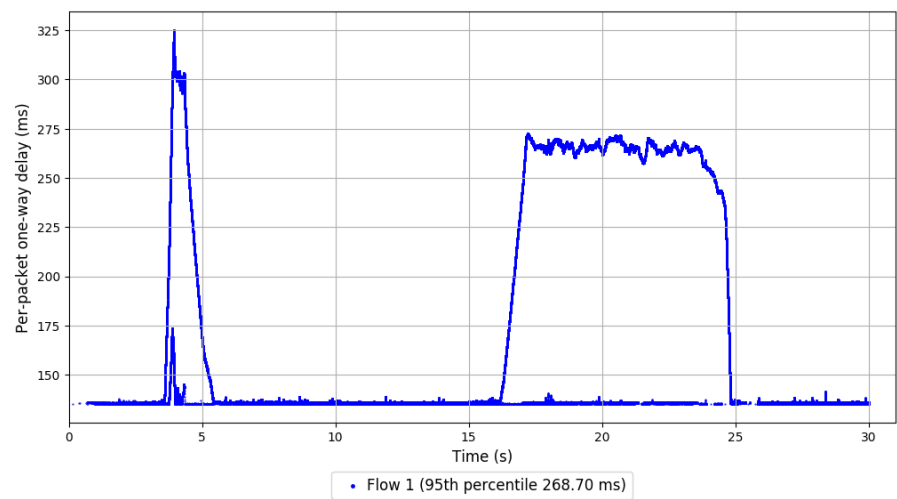
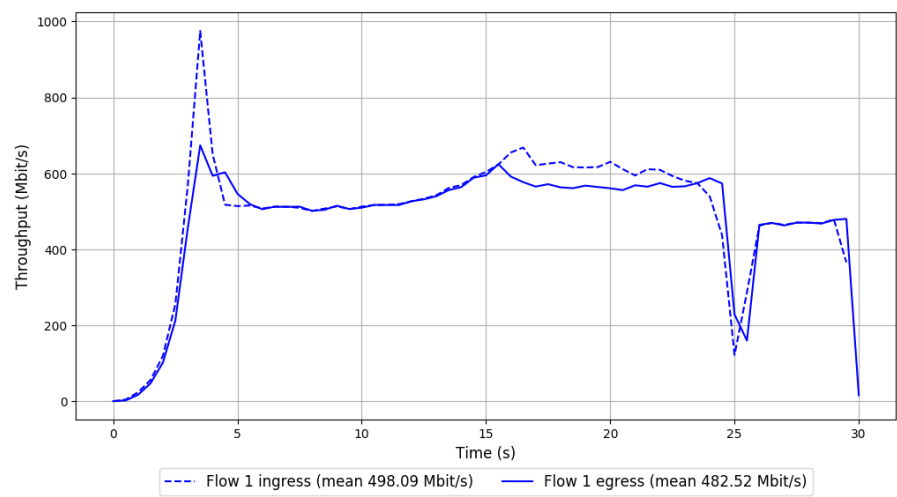
-- Flow 1:

Average throughput: 482.52 Mbit/s

95th percentile per-packet one-way delay: 268.701 ms

Loss rate: 3.13%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-04-10 23:24:28

End at: 2018-04-10 23:24:58

Below is generated by plot.py at 2018-04-11 02:01:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 545.35 Mbit/s

95th percentile per-packet one-way delay: 254.143 ms

Loss rate: 0.75%

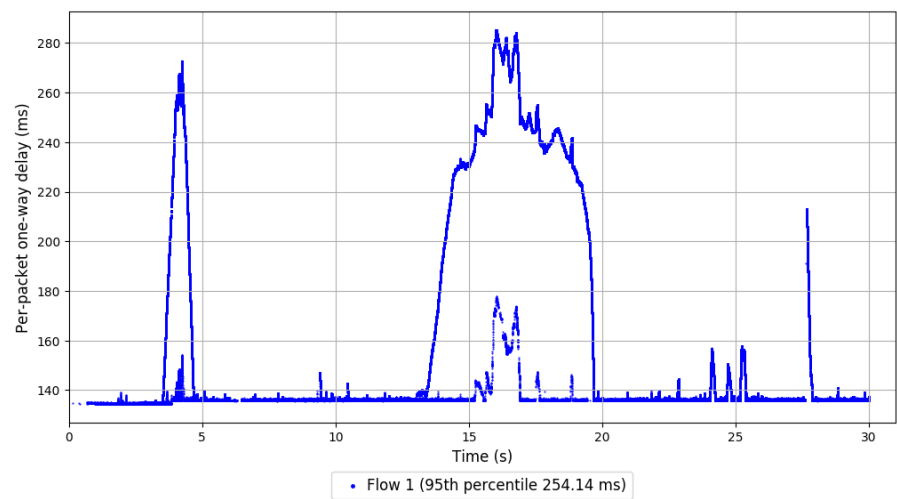
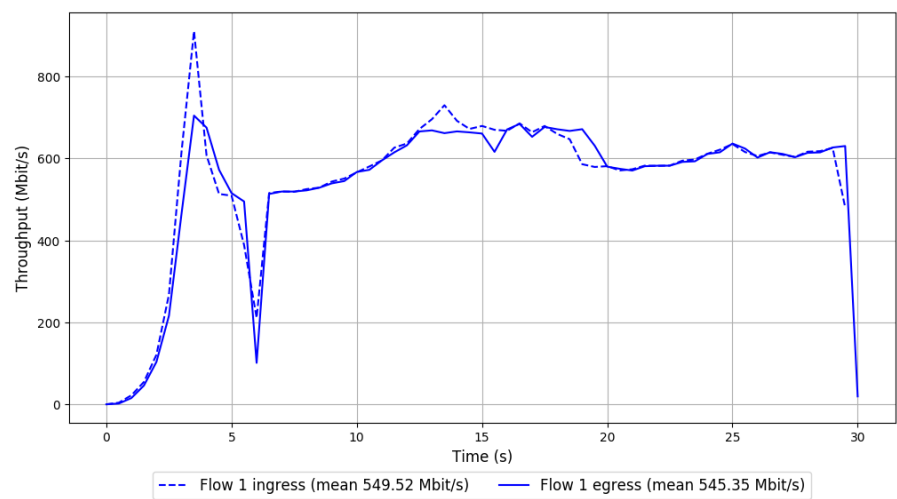
-- Flow 1:

Average throughput: 545.35 Mbit/s

95th percentile per-packet one-way delay: 254.143 ms

Loss rate: 0.75%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-04-10 23:40:27

End at: 2018-04-10 23:40:58

Below is generated by plot.py at 2018-04-11 02:01:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 547.65 Mbit/s

95th percentile per-packet one-way delay: 250.429 ms

Loss rate: 0.86%

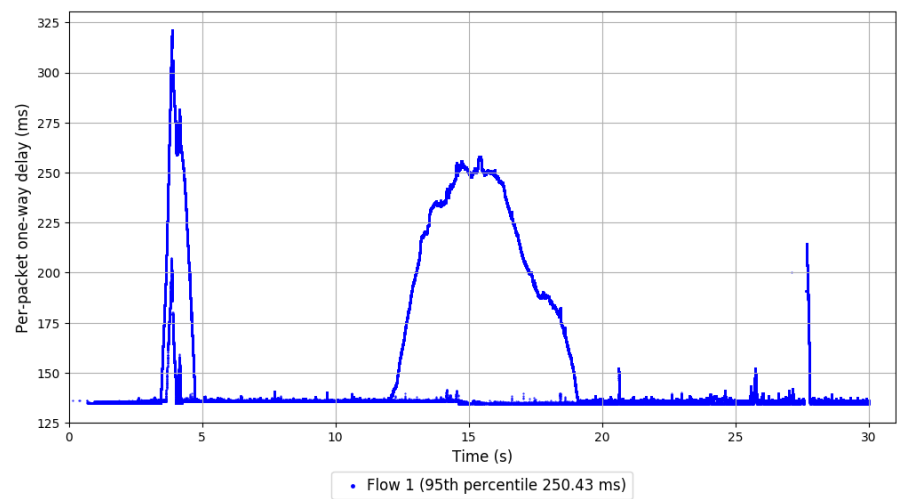
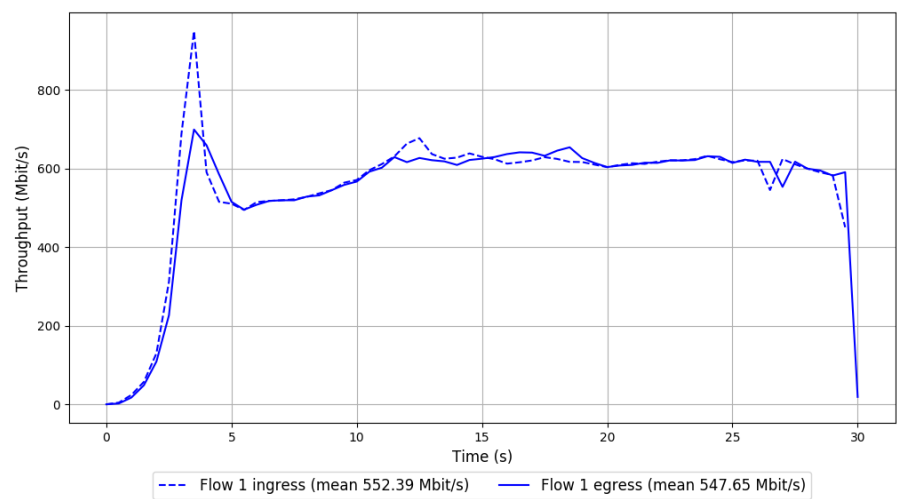
-- Flow 1:

Average throughput: 547.65 Mbit/s

95th percentile per-packet one-way delay: 250.429 ms

Loss rate: 0.86%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-04-10 23:56:06

End at: 2018-04-10 23:56:36

Below is generated by plot.py at 2018-04-11 02:01:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 501.11 Mbit/s

95th percentile per-packet one-way delay: 192.872 ms

Loss rate: 0.74%

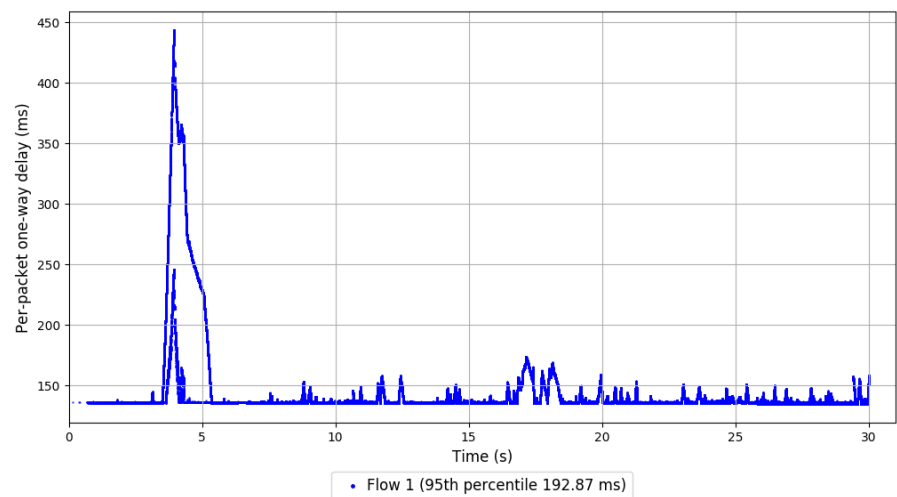
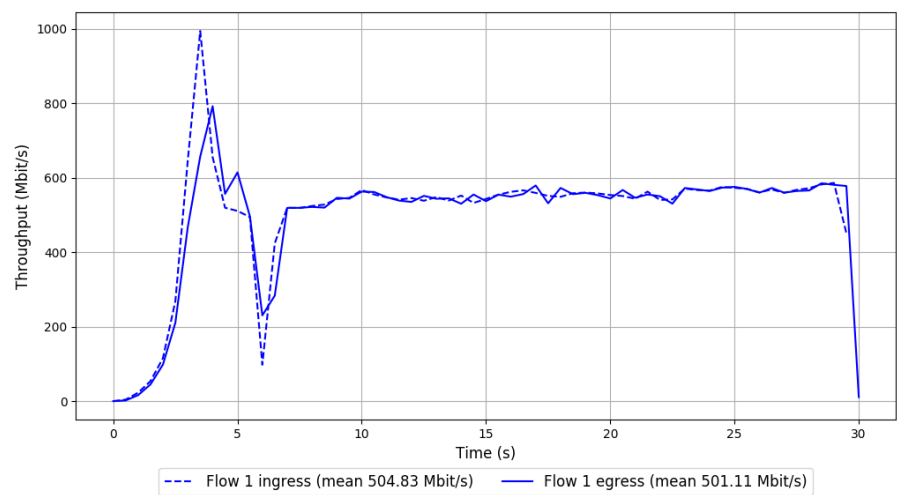
-- Flow 1:

Average throughput: 501.11 Mbit/s

95th percentile per-packet one-way delay: 192.872 ms

Loss rate: 0.74%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-04-11 00:12:09

End at: 2018-04-11 00:12:39

Below is generated by plot.py at 2018-04-11 02:01:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 535.20 Mbit/s

95th percentile per-packet one-way delay: 229.872 ms

Loss rate: 0.76%

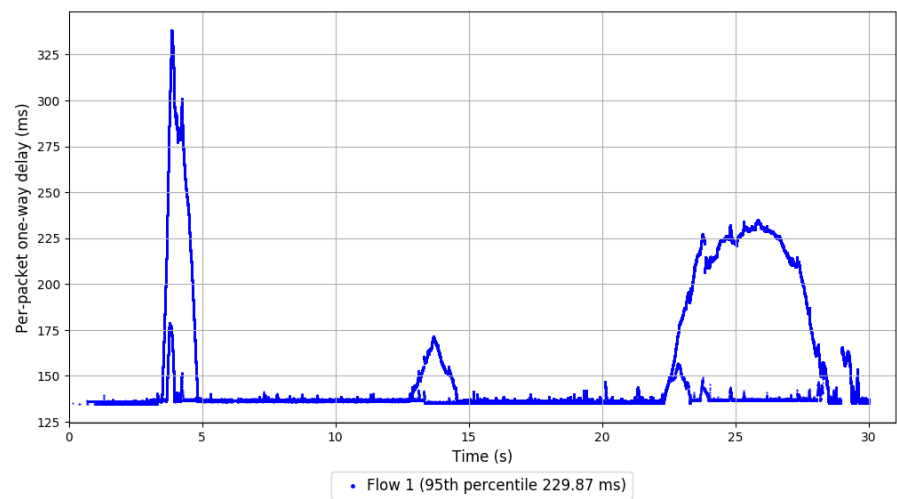
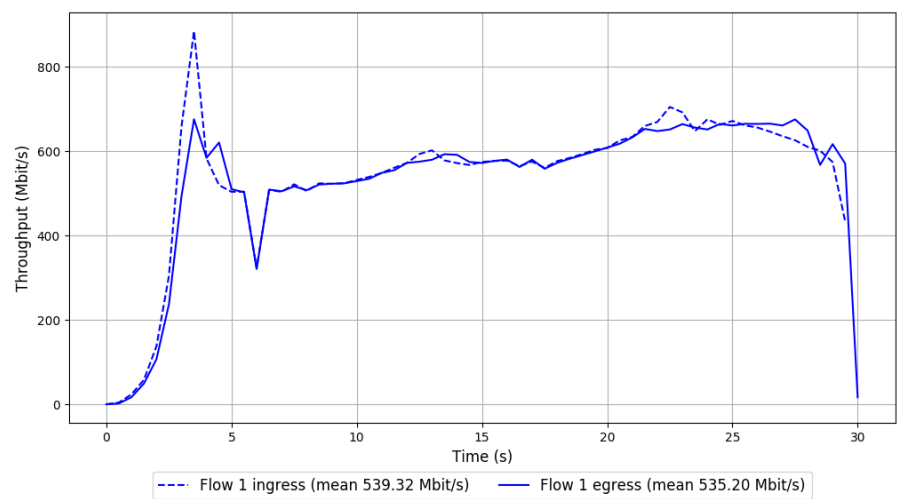
-- Flow 1:

Average throughput: 535.20 Mbit/s

95th percentile per-packet one-way delay: 229.872 ms

Loss rate: 0.76%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-04-11 00:27:56

End at: 2018-04-11 00:28:26

Below is generated by plot.py at 2018-04-11 02:09:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 516.99 Mbit/s

95th percentile per-packet one-way delay: 275.396 ms

Loss rate: 3.08%

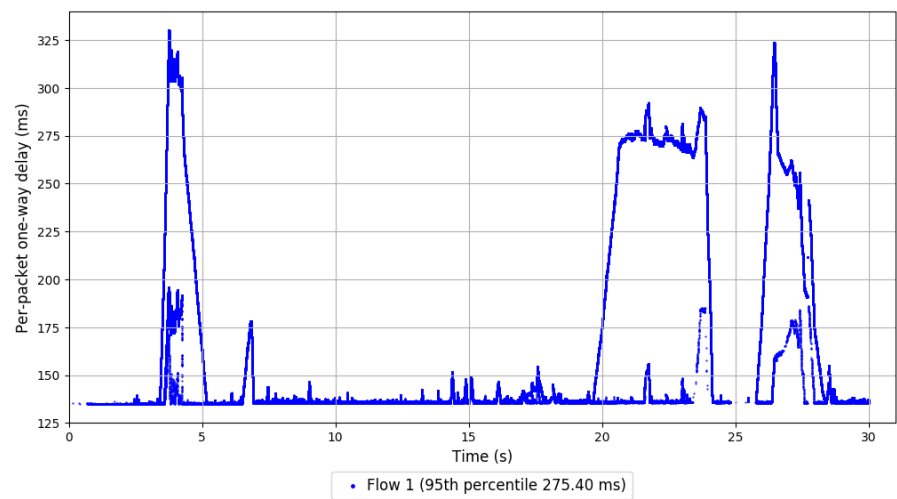
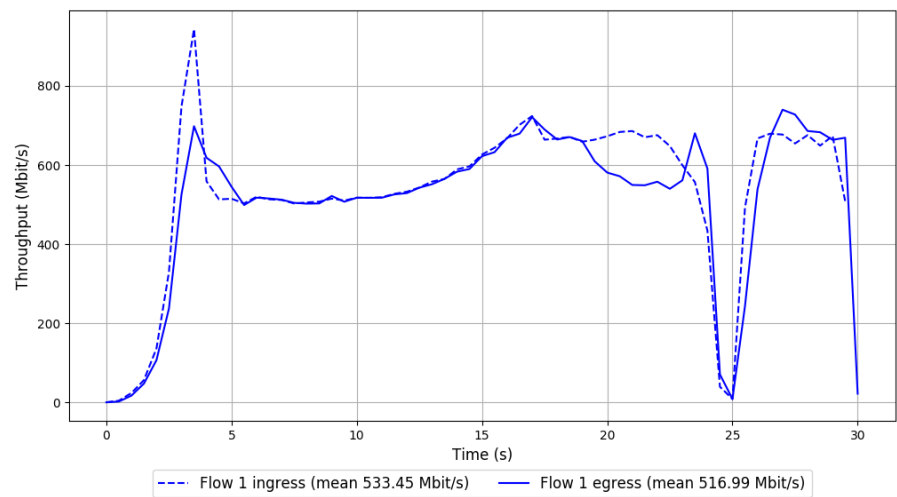
-- Flow 1:

Average throughput: 516.99 Mbit/s

95th percentile per-packet one-way delay: 275.396 ms

Loss rate: 3.08%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-04-11 00:43:47

End at: 2018-04-11 00:44:17

Below is generated by plot.py at 2018-04-11 02:09:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 474.94 Mbit/s

95th percentile per-packet one-way delay: 171.701 ms

Loss rate: 1.08%

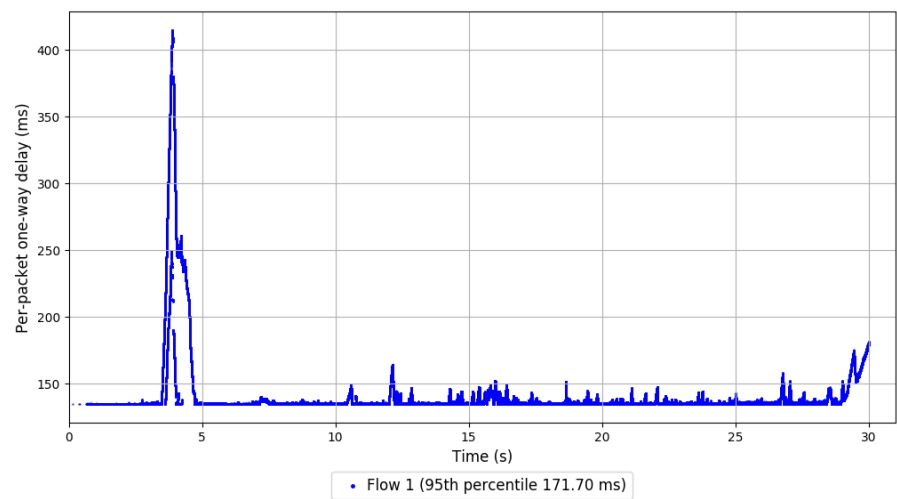
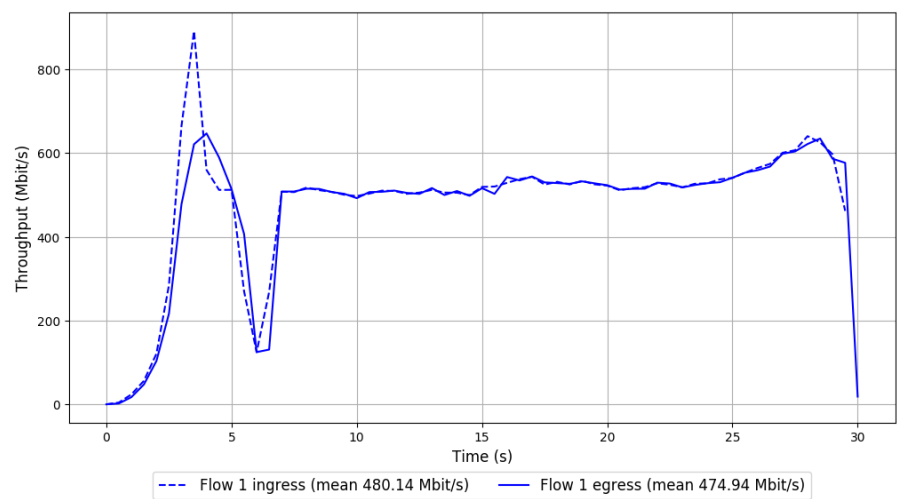
-- Flow 1:

Average throughput: 474.94 Mbit/s

95th percentile per-packet one-way delay: 171.701 ms

Loss rate: 1.08%

Run 10: Report of PCC — Data Link

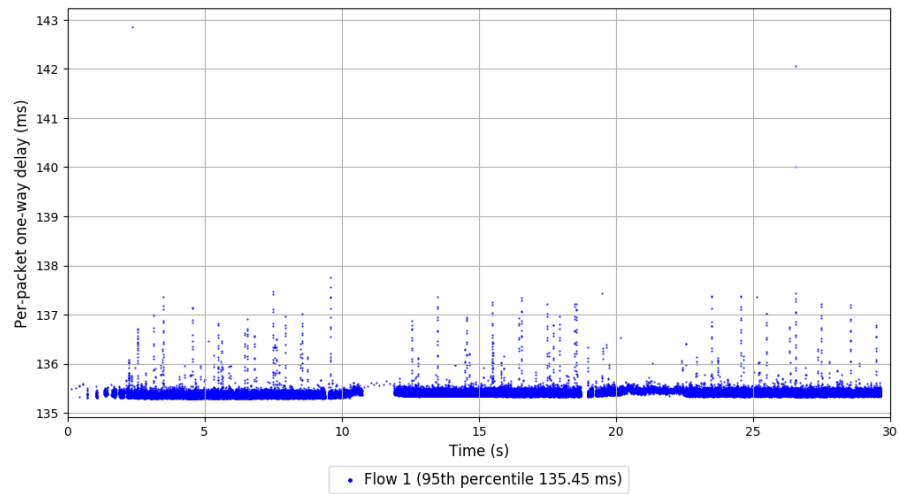
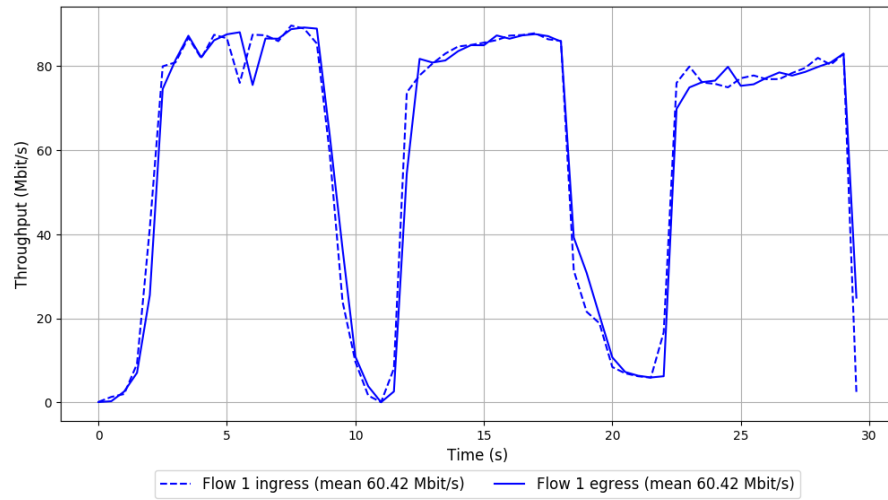


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-04-10 22:05:21
End at: 2018-04-10 22:05:51

# Below is generated by plot.py at 2018-04-11 02:09:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.42 Mbit/s
95th percentile per-packet one-way delay: 135.451 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.42 Mbit/s
95th percentile per-packet one-way delay: 135.451 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link

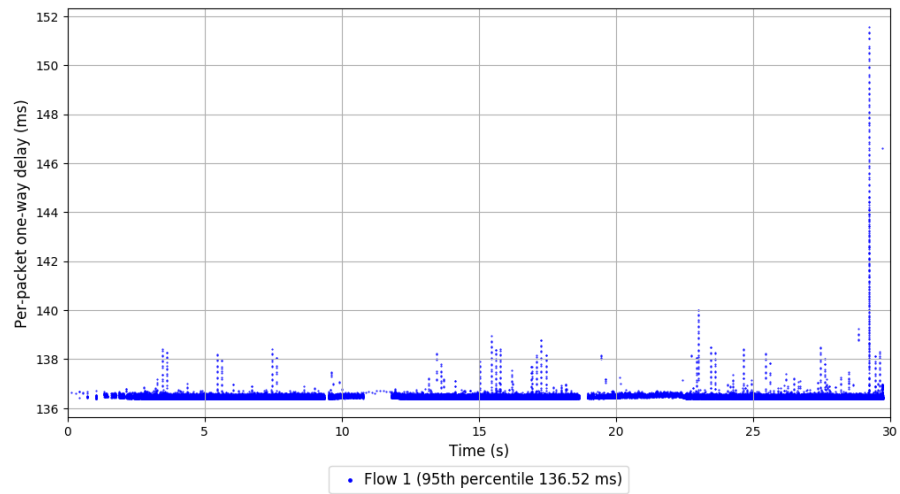
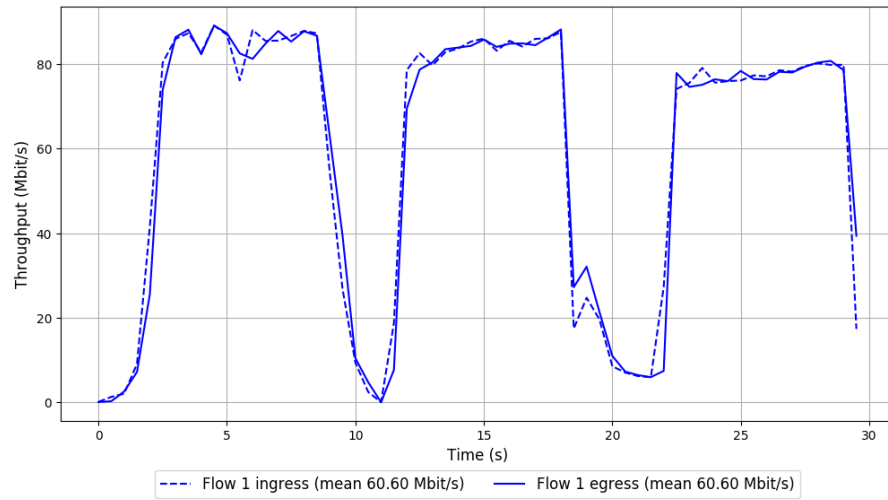


```
Run 2: Statistics of QUIC Cubic

Start at: 2018-04-10 22:21:22
End at: 2018-04-10 22:21:52

# Below is generated by plot.py at 2018-04-11 02:09:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.60 Mbit/s
95th percentile per-packet one-way delay: 136.518 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.60 Mbit/s
95th percentile per-packet one-way delay: 136.518 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-10 22:37:34

End at: 2018-04-10 22:38:04

Below is generated by plot.py at 2018-04-11 02:09:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.12 Mbit/s

95th percentile per-packet one-way delay: 136.374 ms

Loss rate: 0.00%

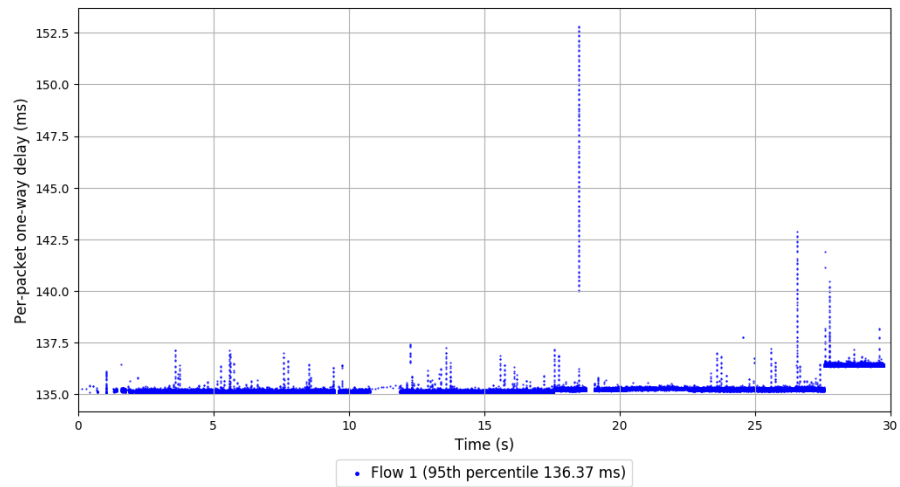
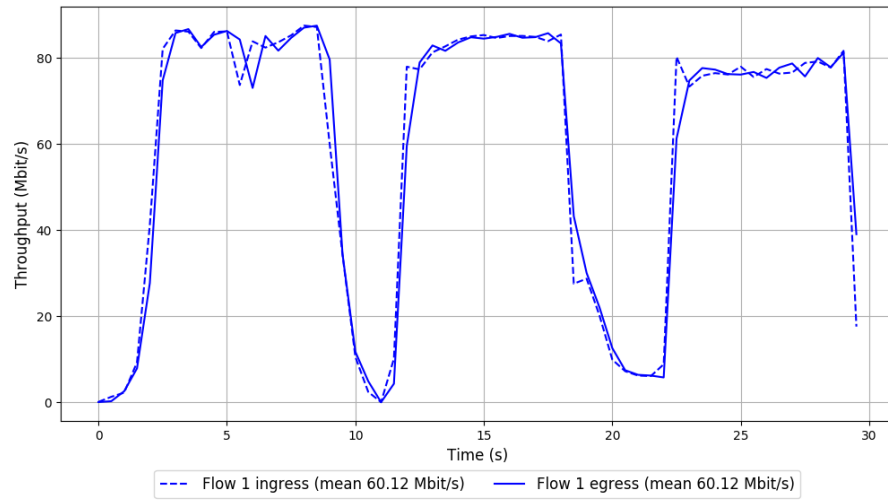
-- Flow 1:

Average throughput: 60.12 Mbit/s

95th percentile per-packet one-way delay: 136.374 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-10 22:53:25

End at: 2018-04-10 22:53:56

Below is generated by plot.py at 2018-04-11 02:09:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.02 Mbit/s

95th percentile per-packet one-way delay: 136.121 ms

Loss rate: 0.00%

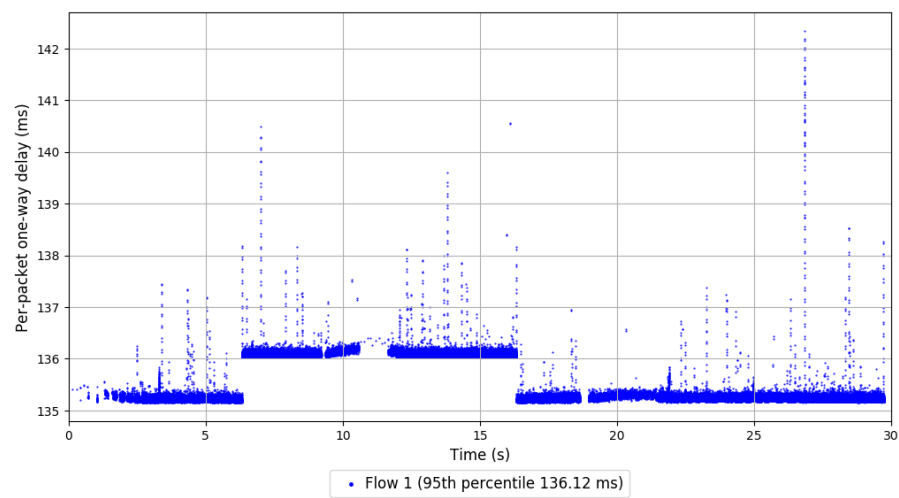
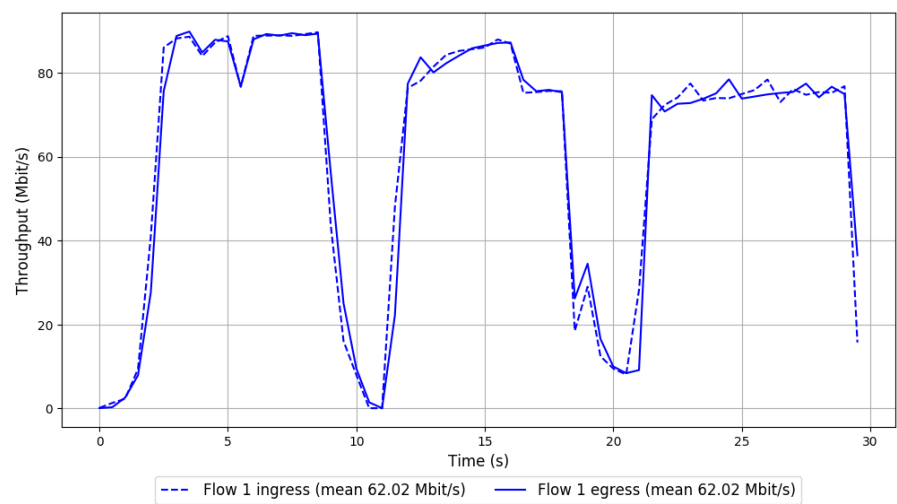
-- Flow 1:

Average throughput: 62.02 Mbit/s

95th percentile per-packet one-way delay: 136.121 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-10 23:09:19

End at: 2018-04-10 23:09:49

Below is generated by plot.py at 2018-04-11 02:09:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.38 Mbit/s

95th percentile per-packet one-way delay: 136.549 ms

Loss rate: 0.00%

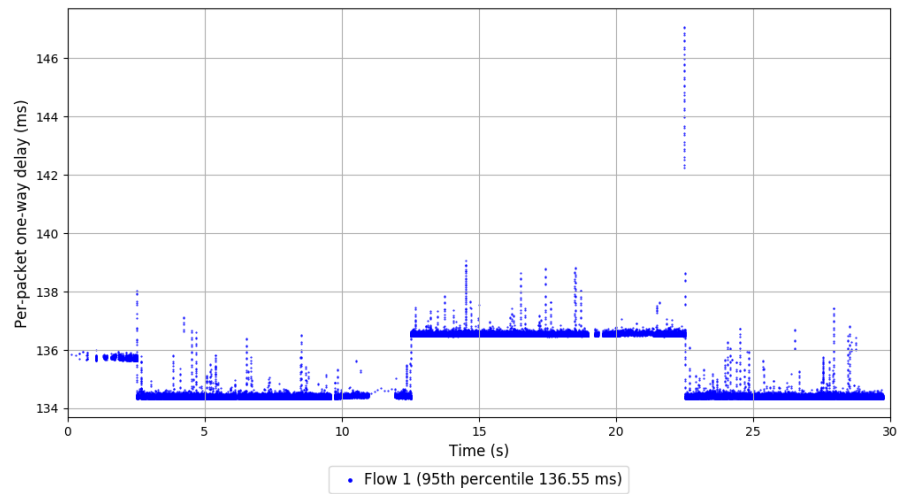
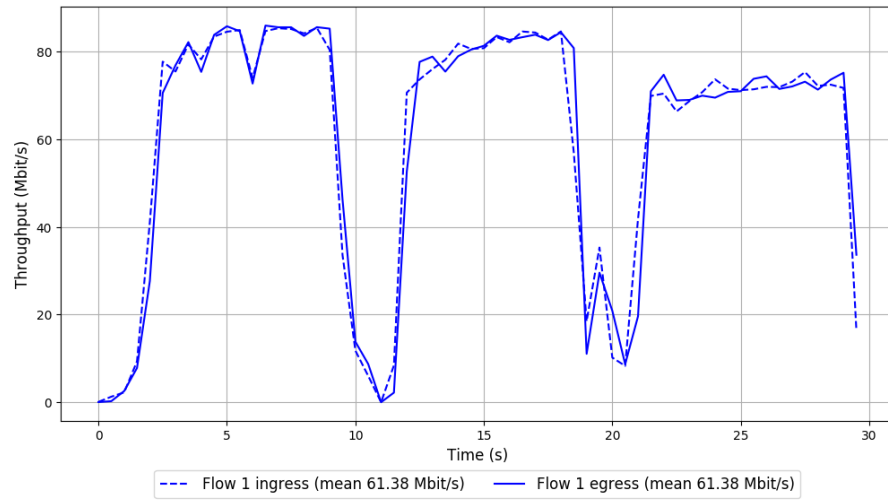
-- Flow 1:

Average throughput: 61.38 Mbit/s

95th percentile per-packet one-way delay: 136.549 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-10 23:25:34

End at: 2018-04-10 23:26:04

Below is generated by plot.py at 2018-04-11 02:09:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.66 Mbit/s

95th percentile per-packet one-way delay: 135.282 ms

Loss rate: 0.00%

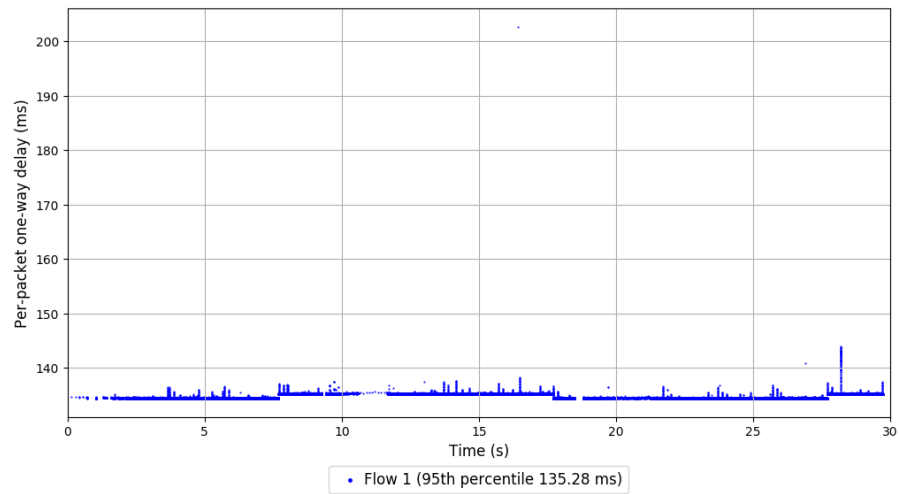
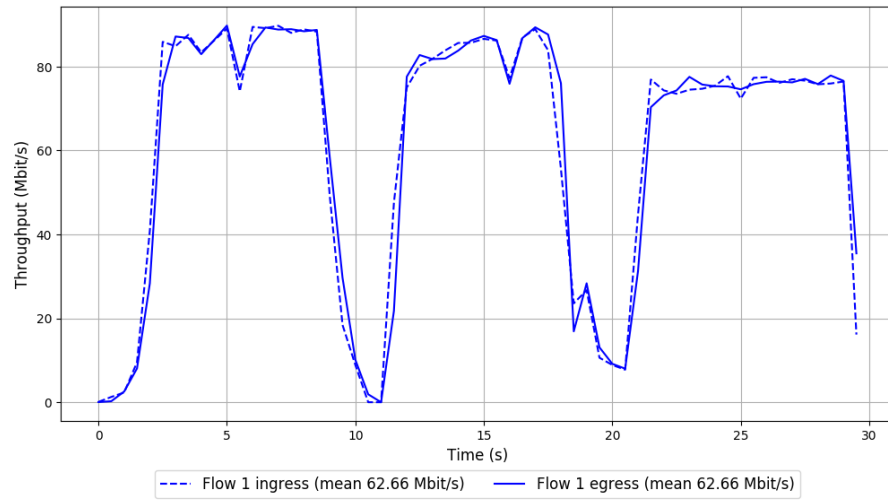
-- Flow 1:

Average throughput: 62.66 Mbit/s

95th percentile per-packet one-way delay: 135.282 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-10 23:41:33

End at: 2018-04-10 23:42:03

Below is generated by plot.py at 2018-04-11 02:09:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.55 Mbit/s

95th percentile per-packet one-way delay: 135.253 ms

Loss rate: 0.00%

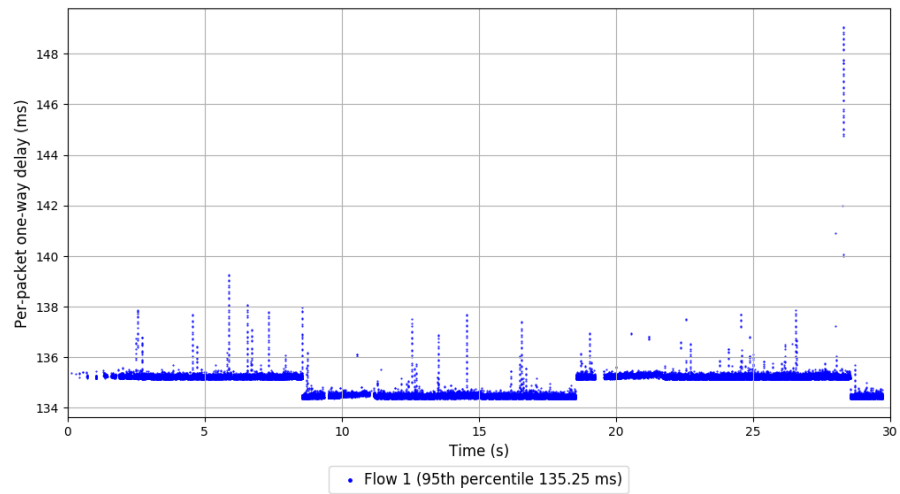
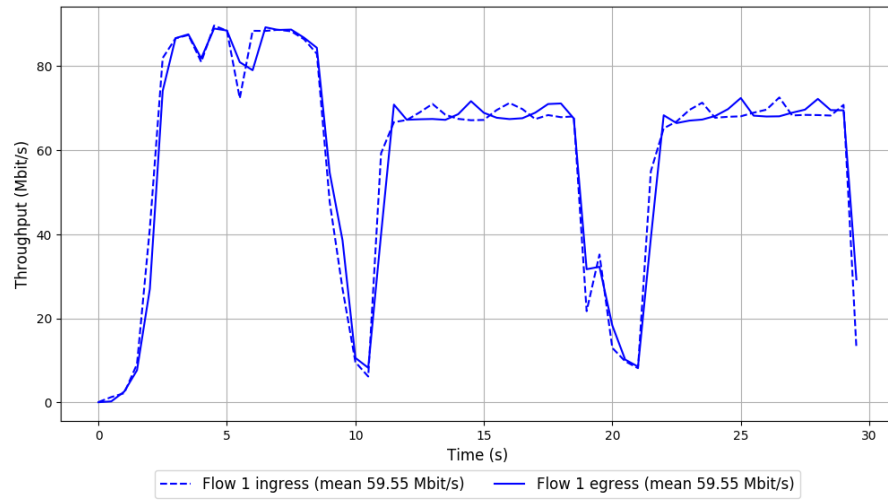
-- Flow 1:

Average throughput: 59.55 Mbit/s

95th percentile per-packet one-way delay: 135.253 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-10 23:57:10

End at: 2018-04-10 23:57:40

Below is generated by plot.py at 2018-04-11 02:09:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.01 Mbit/s

95th percentile per-packet one-way delay: 135.168 ms

Loss rate: 0.00%

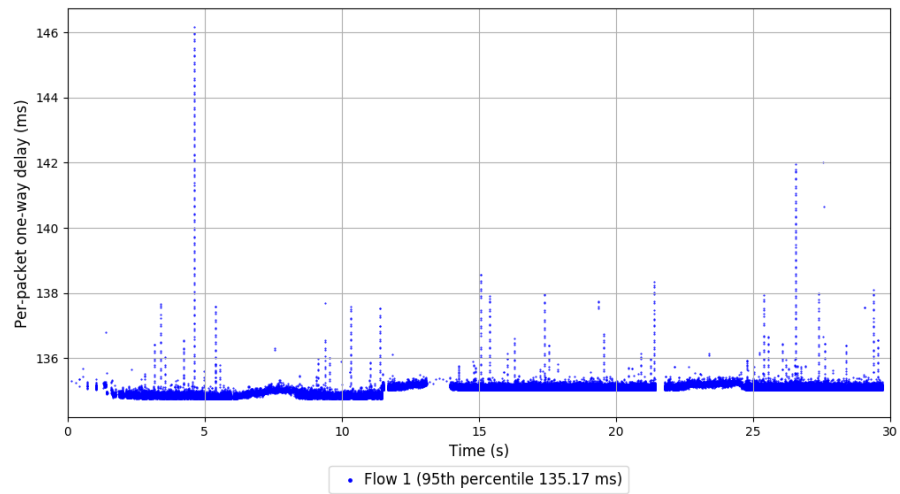
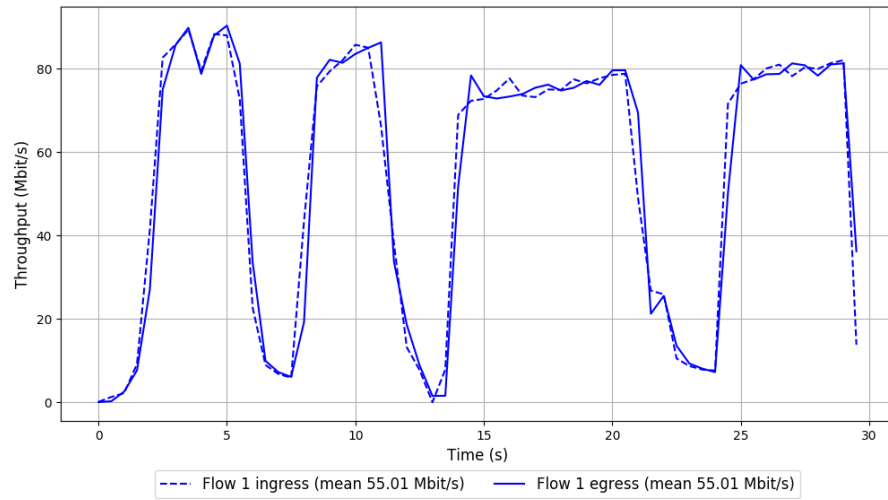
-- Flow 1:

Average throughput: 55.01 Mbit/s

95th percentile per-packet one-way delay: 135.168 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-11 00:13:14

End at: 2018-04-11 00:13:44

Below is generated by plot.py at 2018-04-11 02:09:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.49 Mbit/s

95th percentile per-packet one-way delay: 135.738 ms

Loss rate: 0.00%

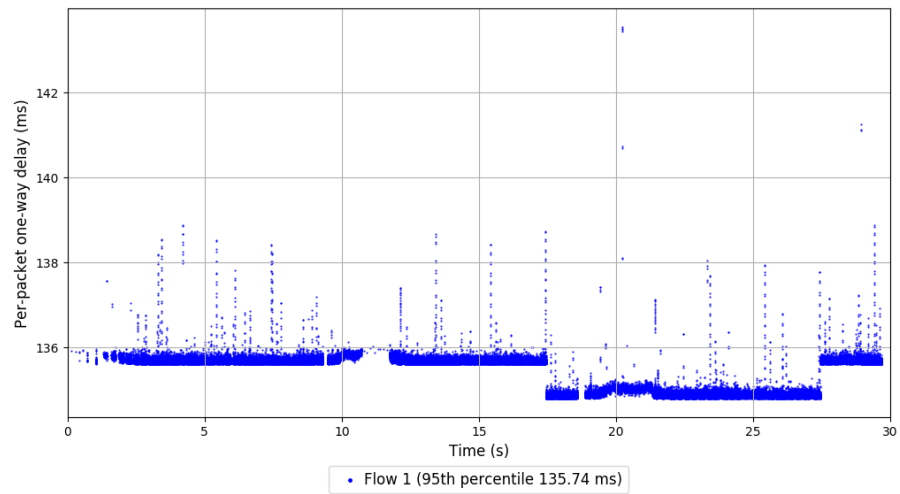
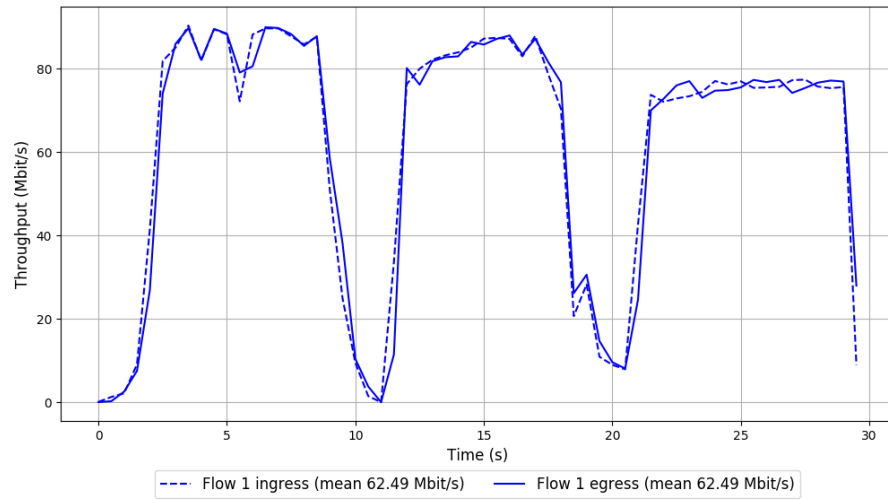
-- Flow 1:

Average throughput: 62.49 Mbit/s

95th percentile per-packet one-way delay: 135.738 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

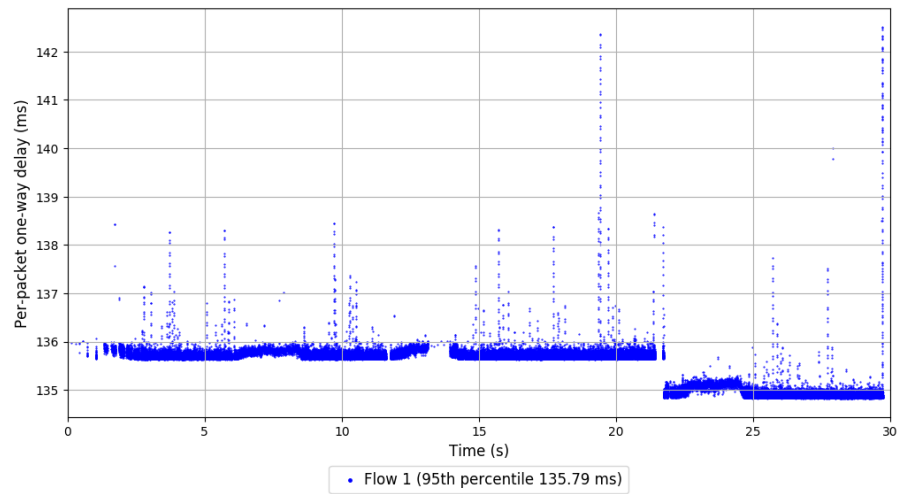
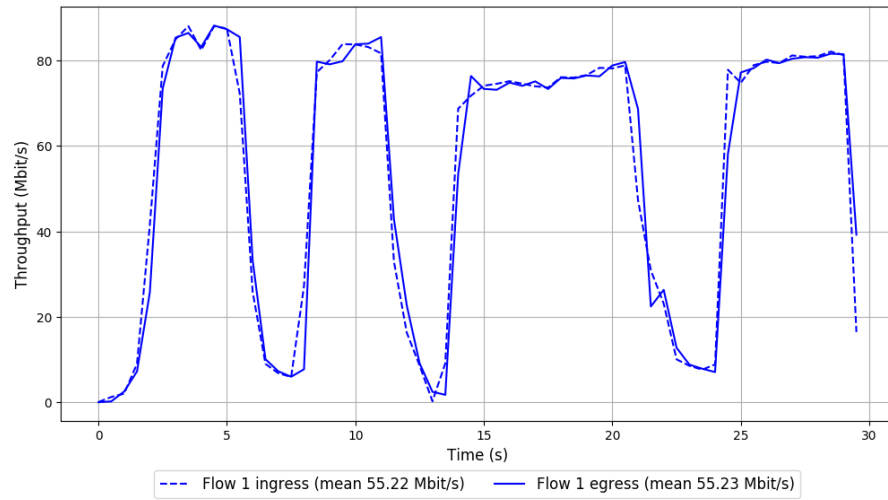


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-04-11 00:29:00
End at: 2018-04-11 00:29:30

# Below is generated by plot.py at 2018-04-11 02:09:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.23 Mbit/s
95th percentile per-packet one-way delay: 135.786 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.23 Mbit/s
95th percentile per-packet one-way delay: 135.786 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

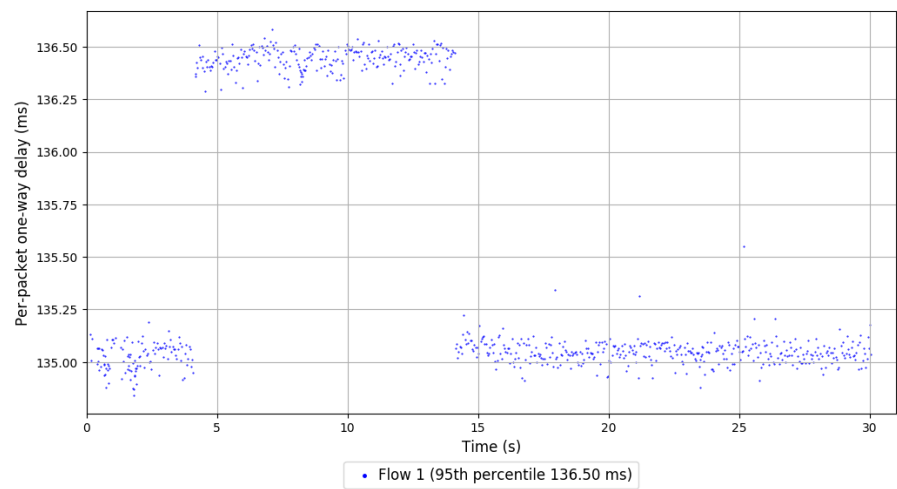
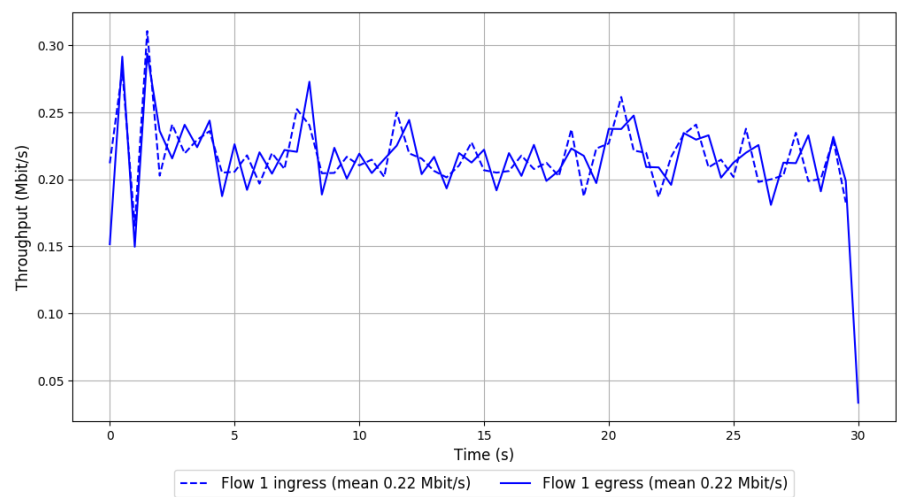


```
Run 1: Statistics of SCReAM

Start at: 2018-04-10 22:18:48
End at: 2018-04-10 22:19:18

# Below is generated by plot.py at 2018-04-11 02:09:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.497 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.497 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

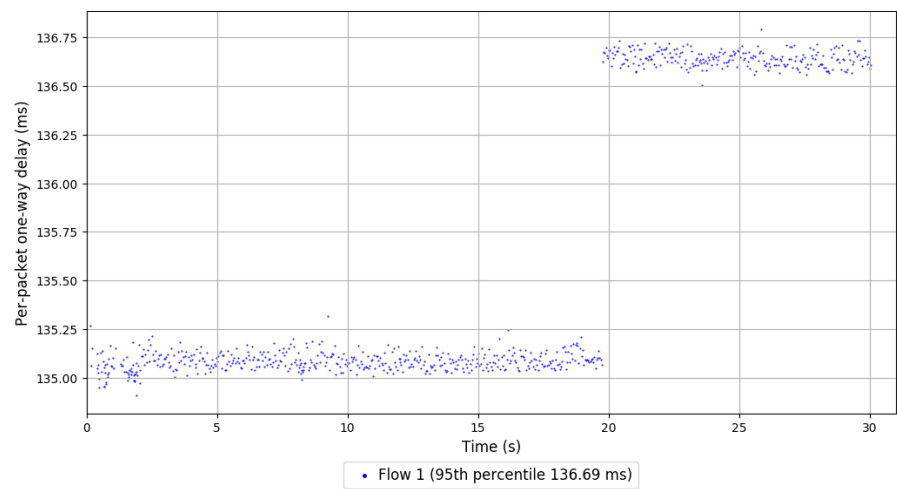
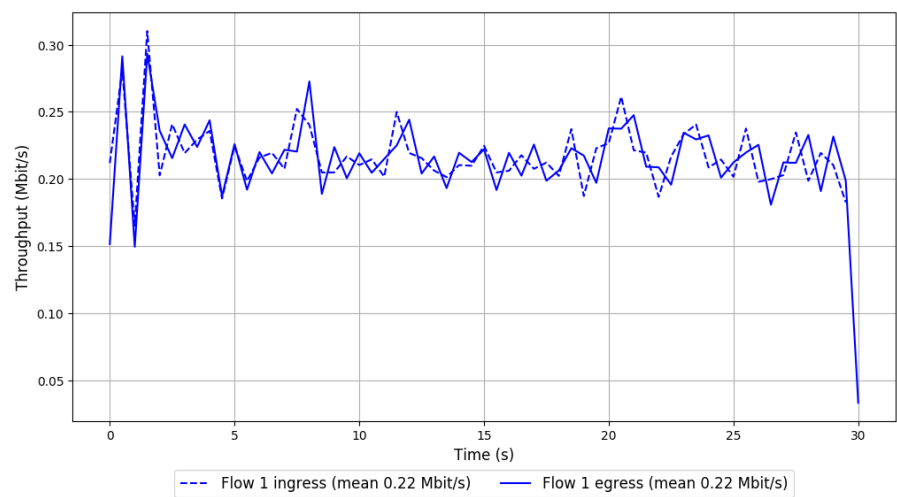


```
Run 2: Statistics of SCReAM

Start at: 2018-04-10 22:35:02
End at: 2018-04-10 22:35:32

# Below is generated by plot.py at 2018-04-11 02:09:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.688 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.688 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-04-10 22:50:53

End at: 2018-04-10 22:51:23

Below is generated by plot.py at 2018-04-11 02:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

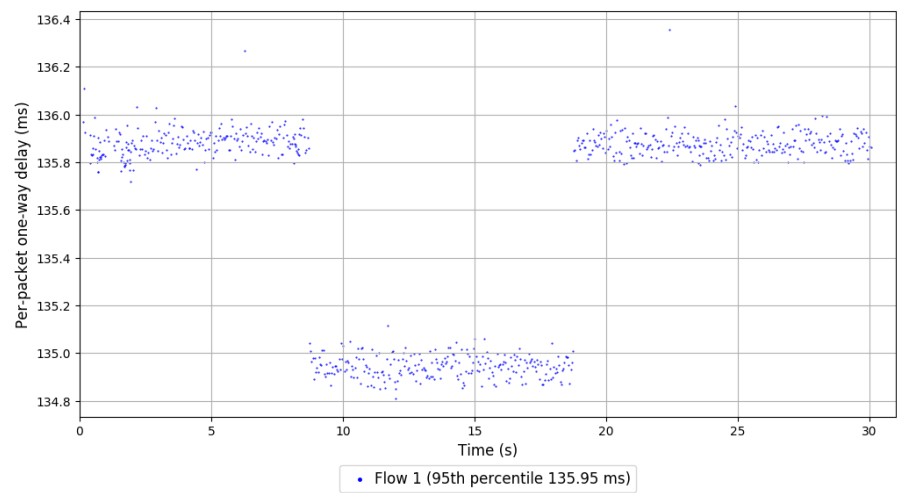
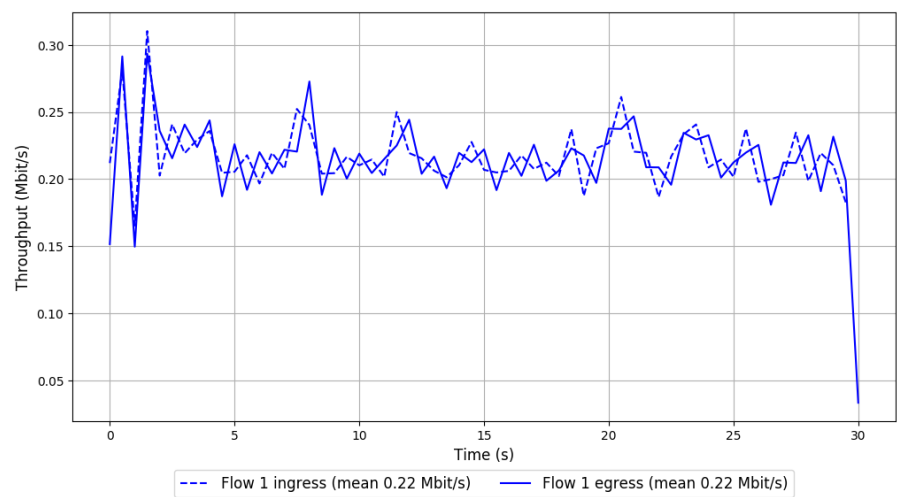
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

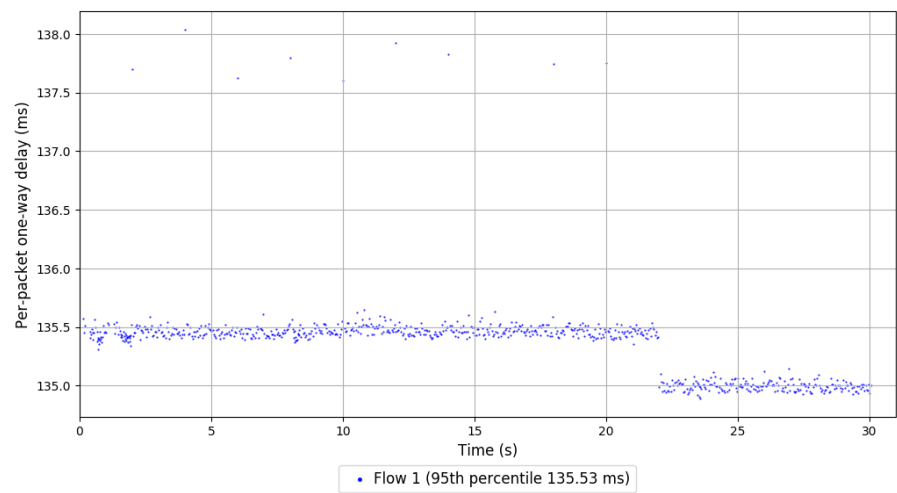
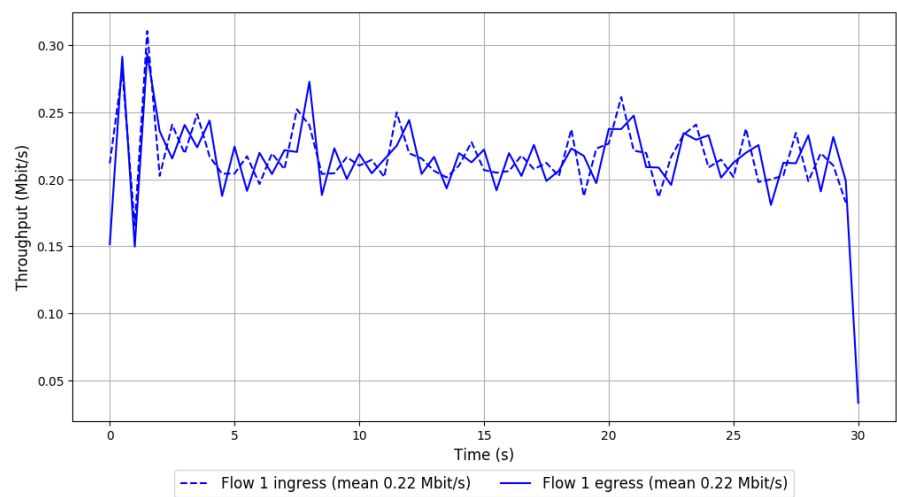


```
Run 4: Statistics of SCReAM

Start at: 2018-04-10 23:06:50
End at: 2018-04-10 23:07:20

# Below is generated by plot.py at 2018-04-11 02:09:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.535 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.535 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-04-10 23:23:02

End at: 2018-04-10 23:23:32

Below is generated by plot.py at 2018-04-11 02:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.454 ms

Loss rate: 0.00%

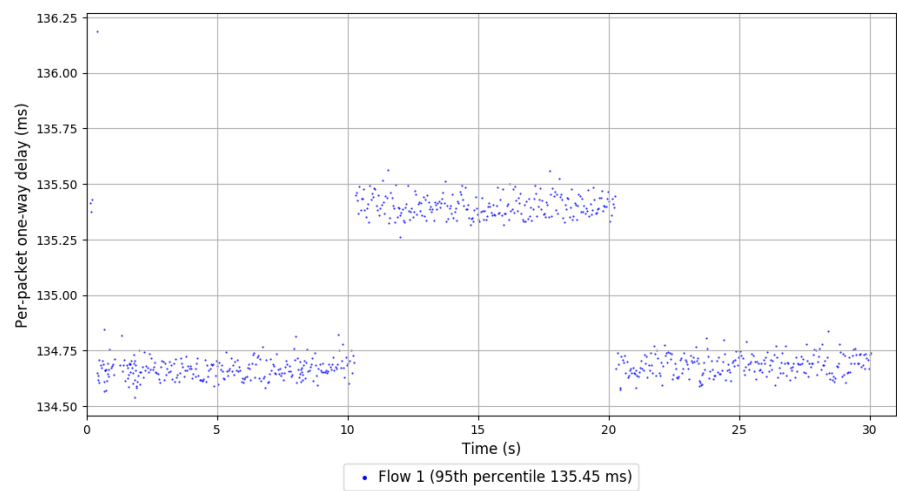
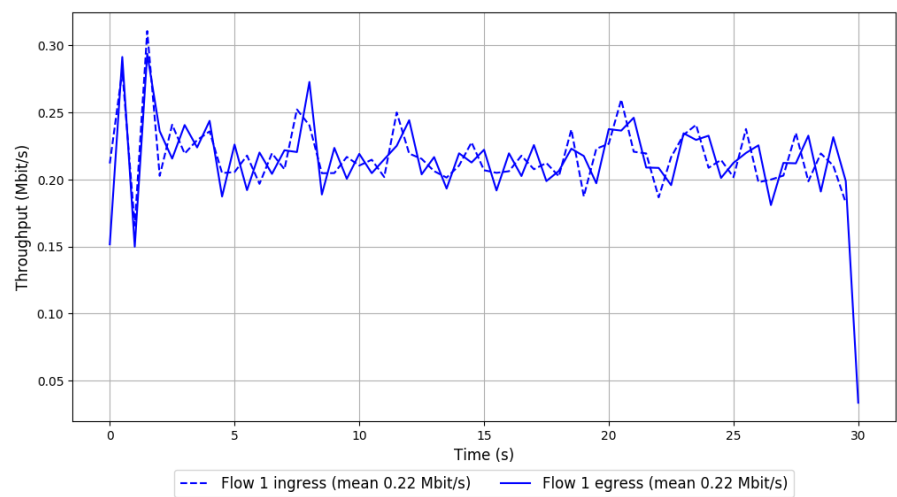
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.454 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

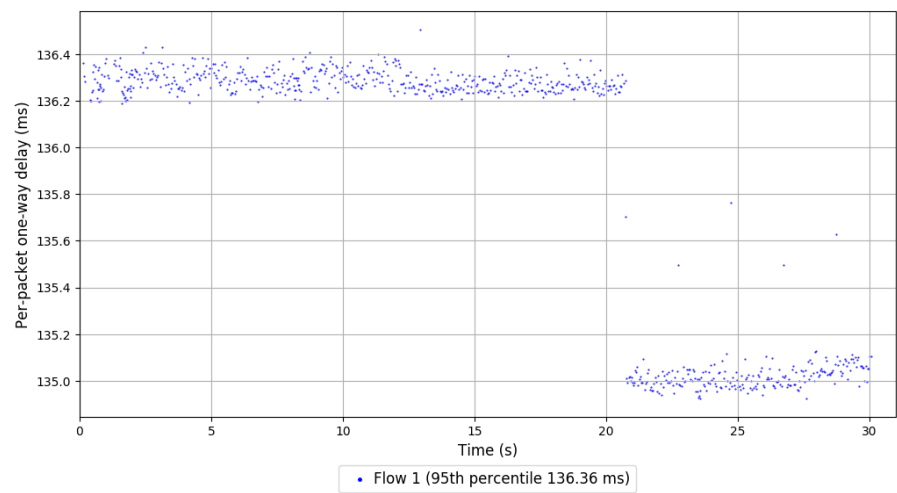
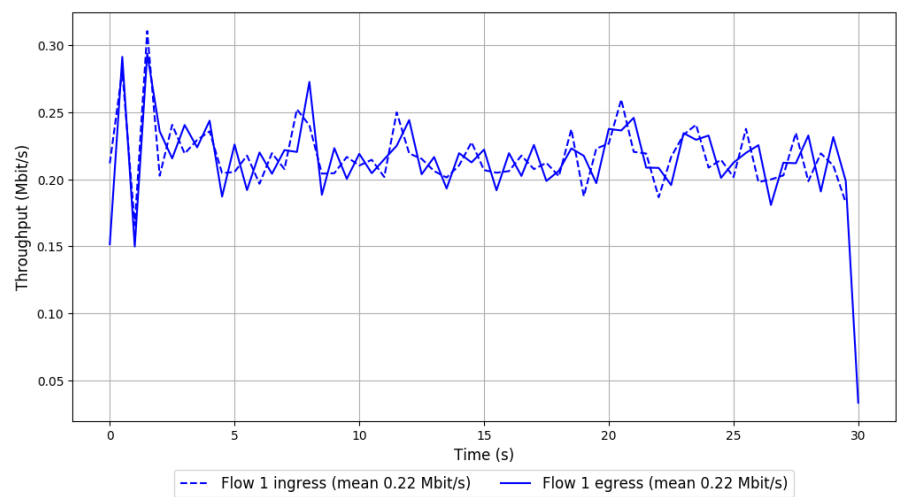


```
Run 6: Statistics of SCReAM

Start at: 2018-04-10 23:39:01
End at: 2018-04-10 23:39:31

# Below is generated by plot.py at 2018-04-11 02:09:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.359 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.359 ms
Loss rate: 0.00%
```

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-04-10 23:54:40

End at: 2018-04-10 23:55:10

Below is generated by plot.py at 2018-04-11 02:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.702 ms

Loss rate: 0.00%

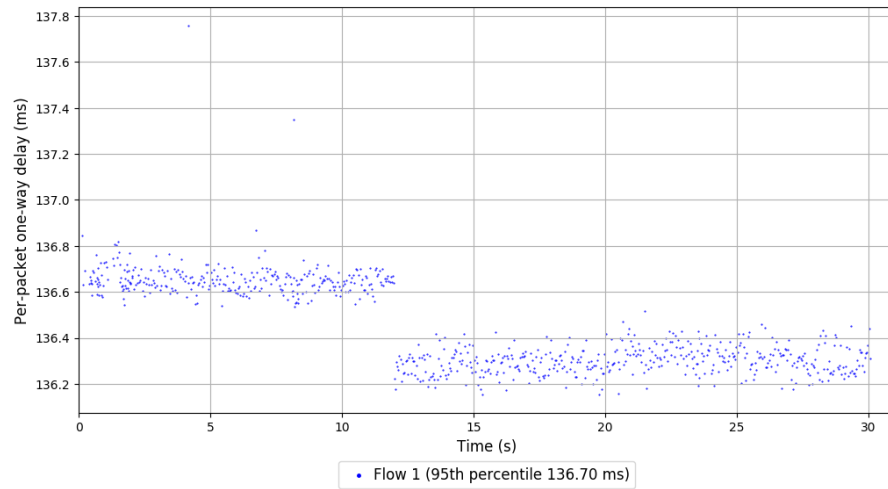
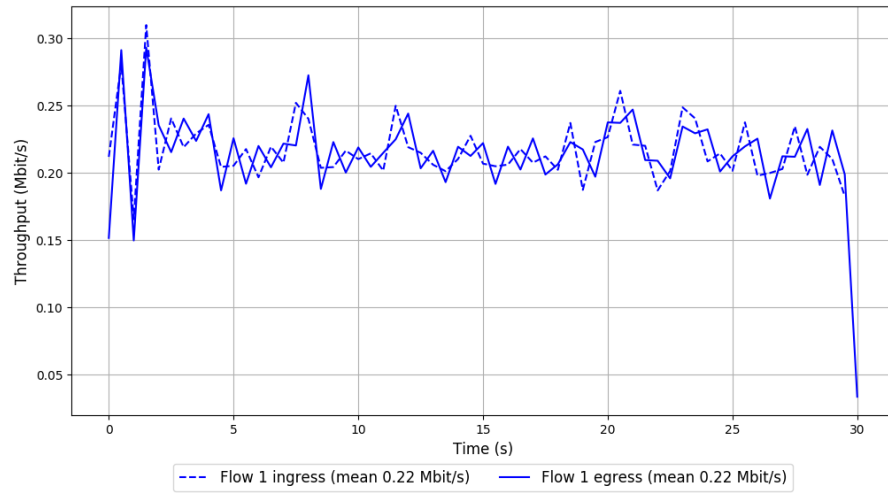
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.702 ms

Loss rate: 0.00%

Run 7: Report of SCRaM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-04-11 00:10:43

End at: 2018-04-11 00:11:13

Below is generated by plot.py at 2018-04-11 02:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.822 ms

Loss rate: 0.00%

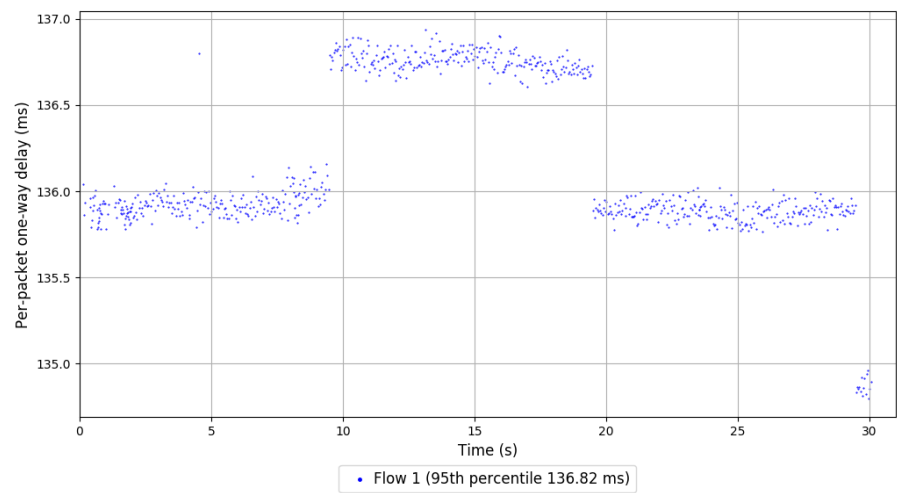
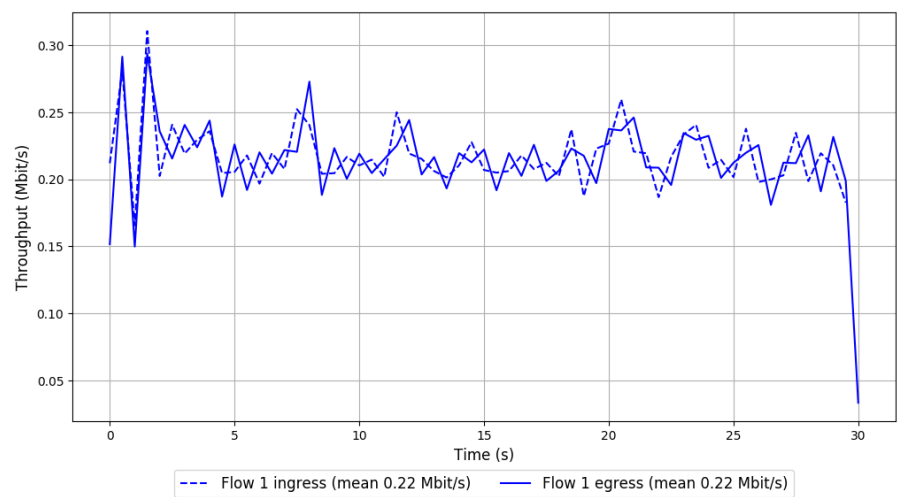
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.822 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-04-11 00:26:29

End at: 2018-04-11 00:26:59

Below is generated by plot.py at 2018-04-11 02:09:42

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%

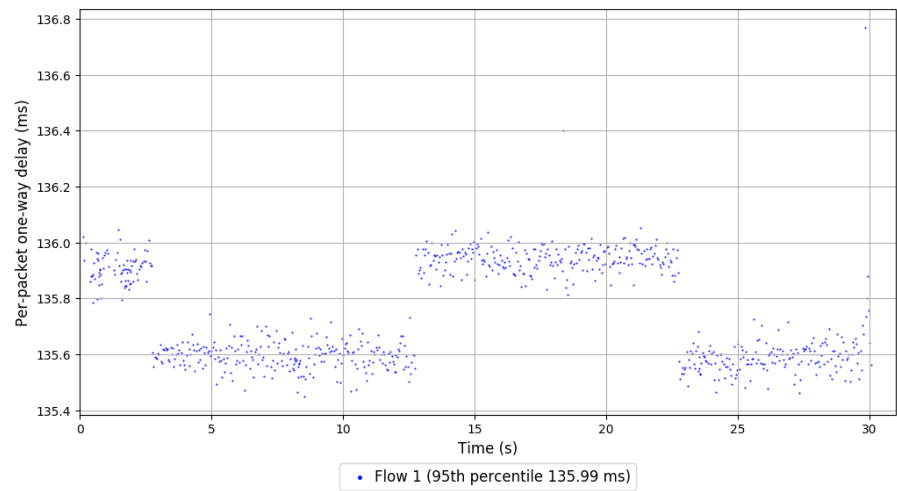
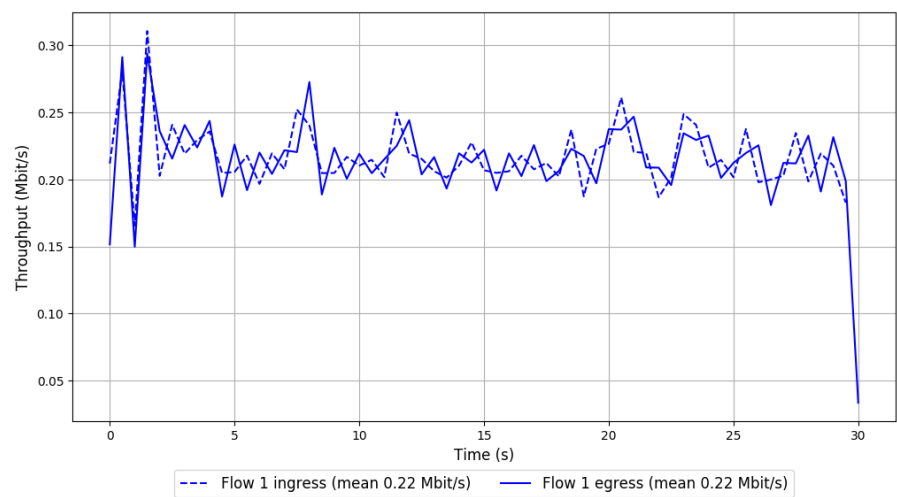
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-04-11 00:42:21

End at: 2018-04-11 00:42:51

Below is generated by plot.py at 2018-04-11 02:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.056 ms

Loss rate: 0.00%

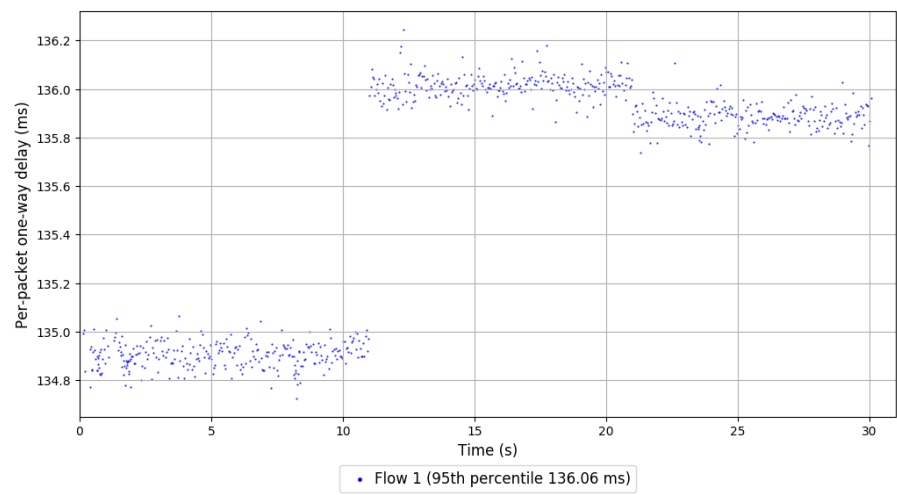
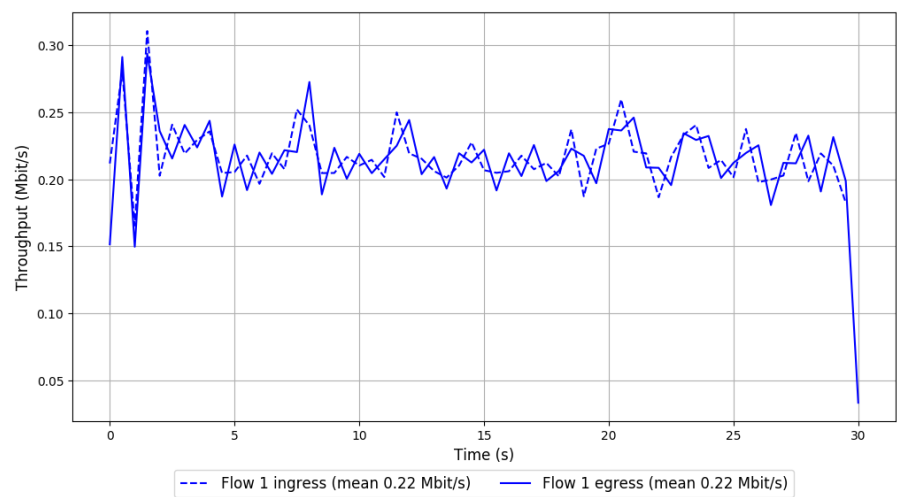
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.056 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

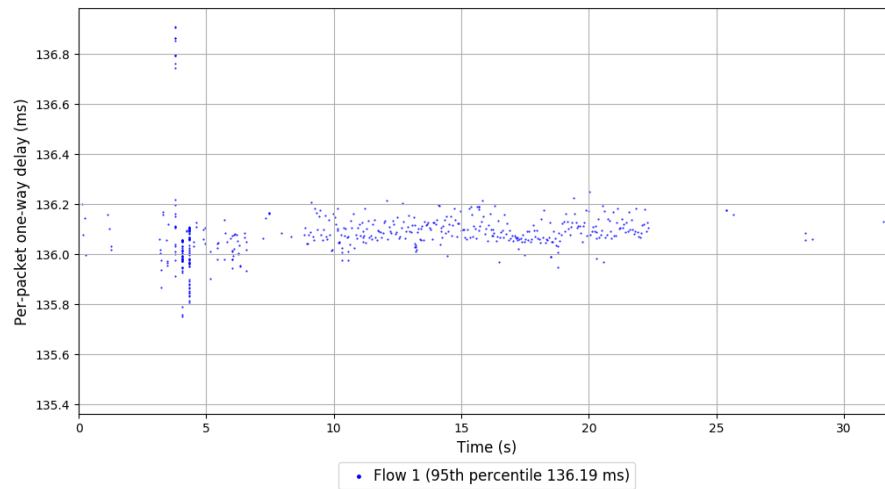
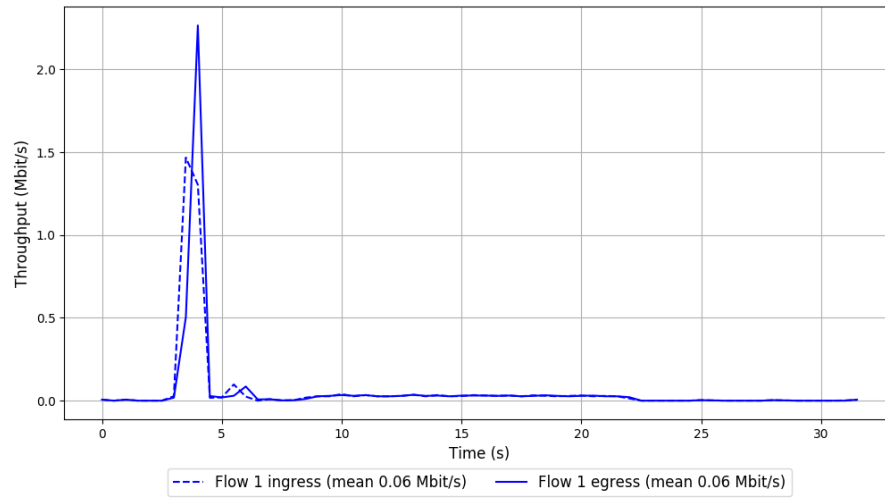


```
Run 1: Statistics of WebRTC media

Start at: 2018-04-10 22:11:53
End at: 2018-04-10 22:12:23

# Below is generated by plot.py at 2018-04-11 02:09:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 136.189 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 136.189 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

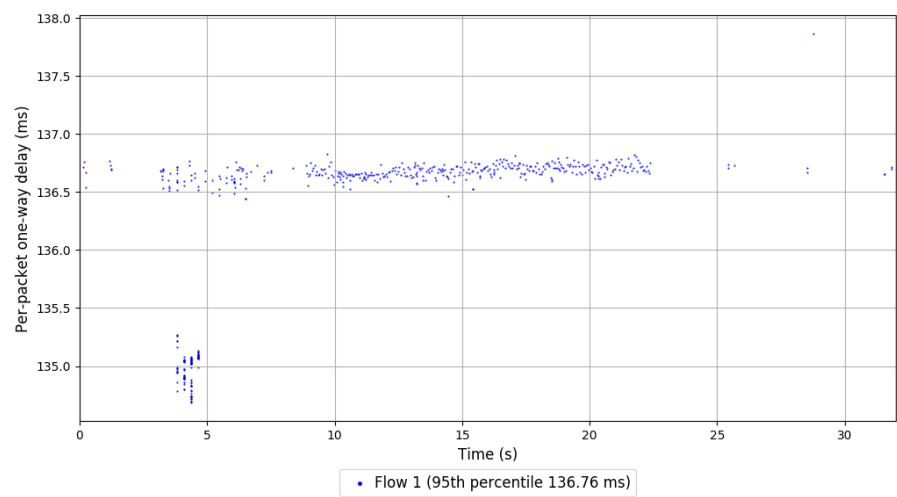
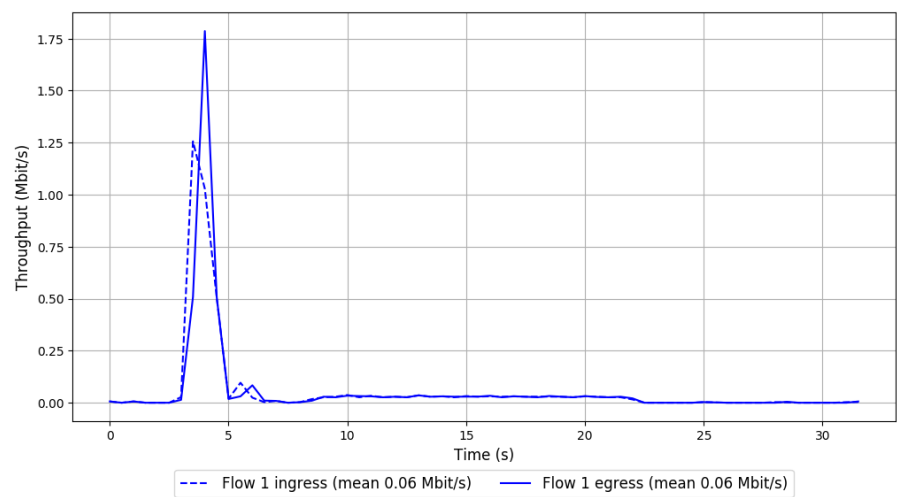


```
Run 2: Statistics of WebRTC media

Start at: 2018-04-10 22:28:00
End at: 2018-04-10 22:28:30

# Below is generated by plot.py at 2018-04-11 02:09:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 136.756 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 136.756 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-10 22:43:53

End at: 2018-04-10 22:44:23

Below is generated by plot.py at 2018-04-11 02:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.079 ms

Loss rate: 0.00%

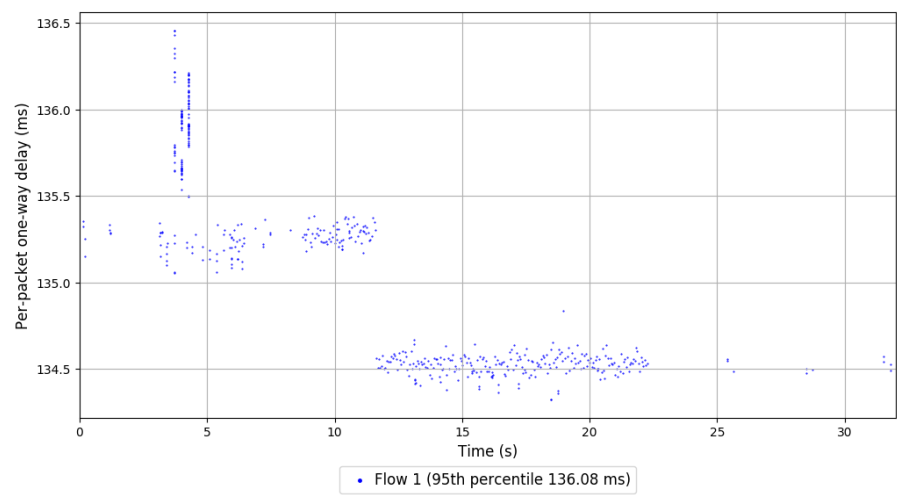
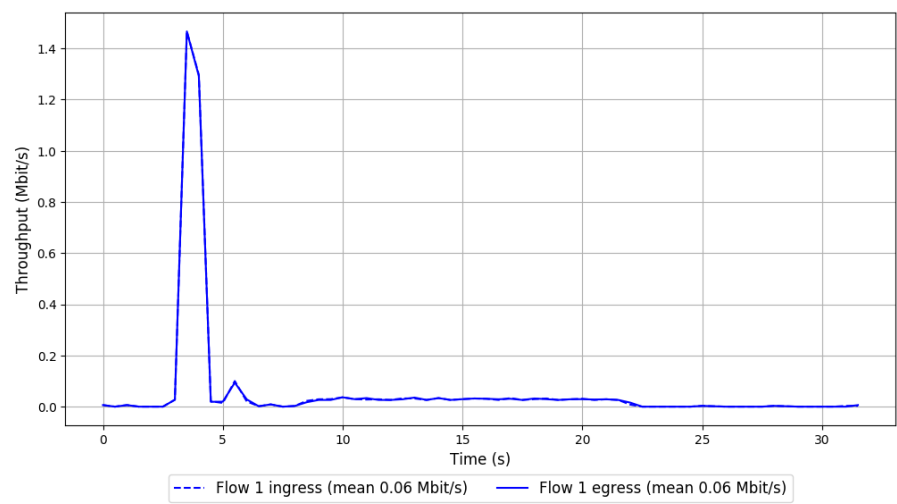
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.079 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-04-10 22:59:41

End at: 2018-04-10 23:00:11

Below is generated by plot.py at 2018-04-11 02:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.571 ms

Loss rate: 0.00%

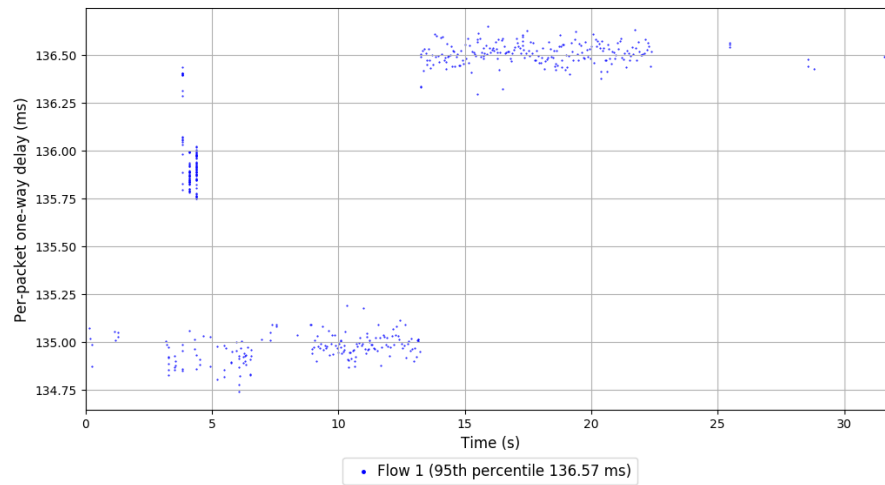
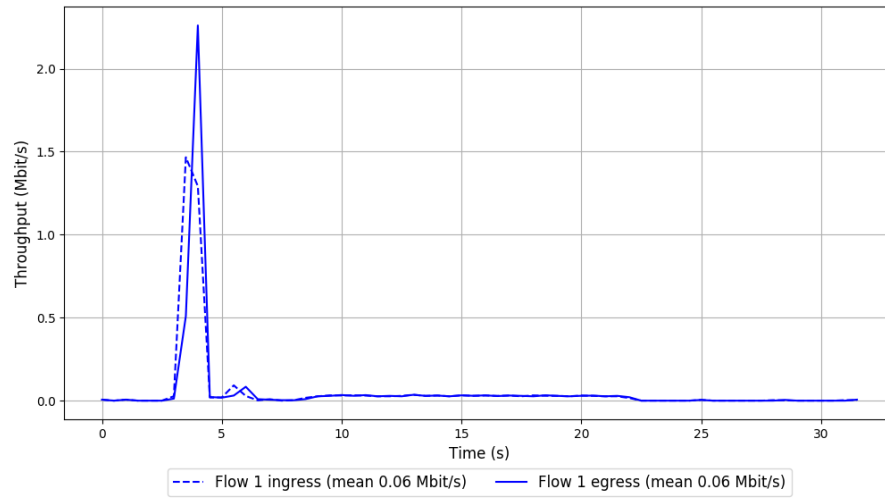
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.571 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-10 23:15:57

End at: 2018-04-10 23:16:27

Below is generated by plot.py at 2018-04-11 02:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.357 ms

Loss rate: 0.00%

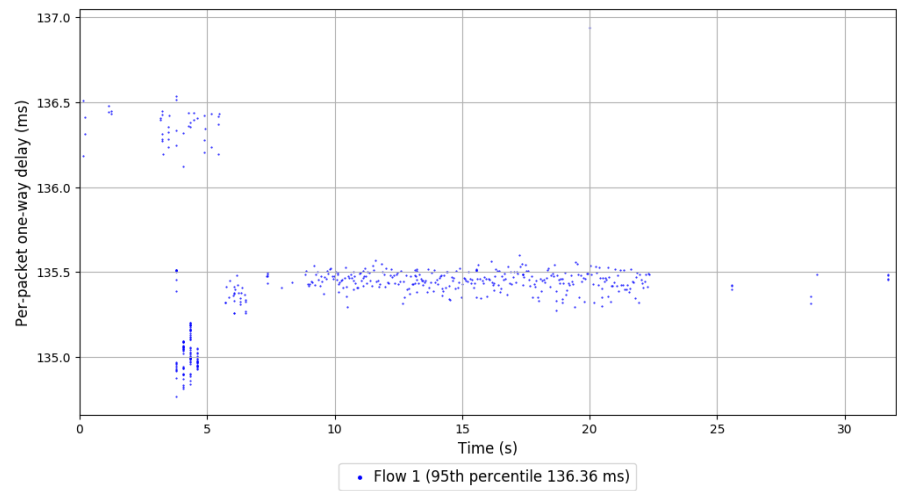
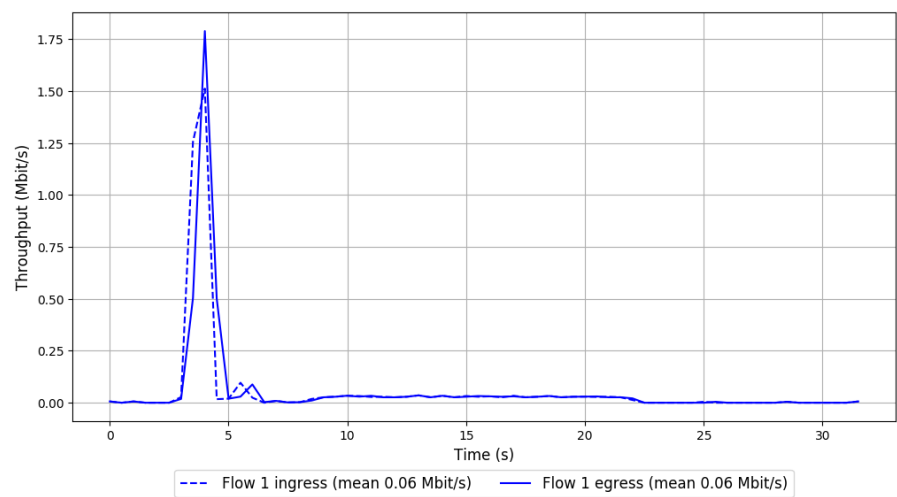
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.357 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-10 23:31:51

End at: 2018-04-10 23:32:21

Below is generated by plot.py at 2018-04-11 02:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.423 ms

Loss rate: 0.00%

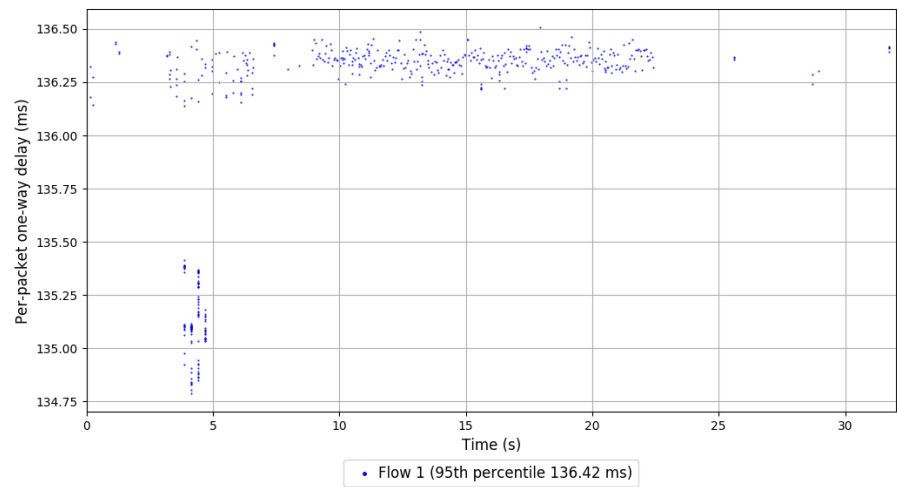
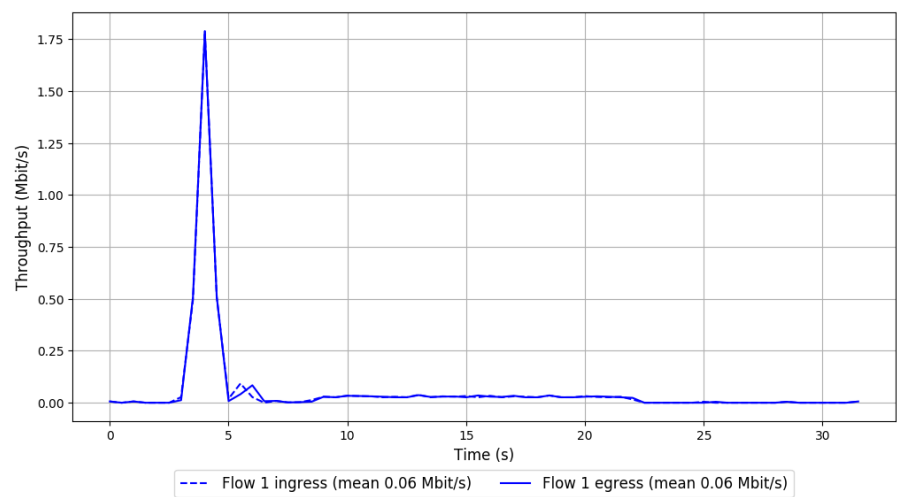
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.423 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-10 23:48:00

End at: 2018-04-10 23:48:30

Below is generated by plot.py at 2018-04-11 02:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.569 ms

Loss rate: 0.00%

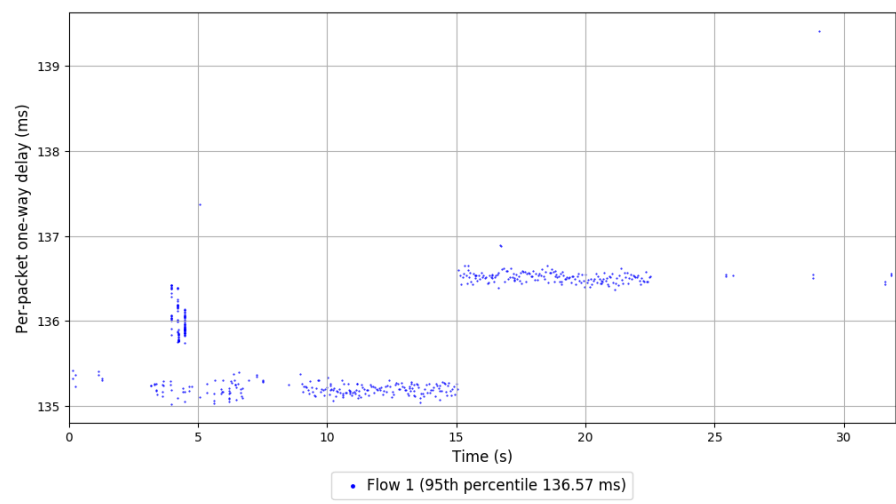
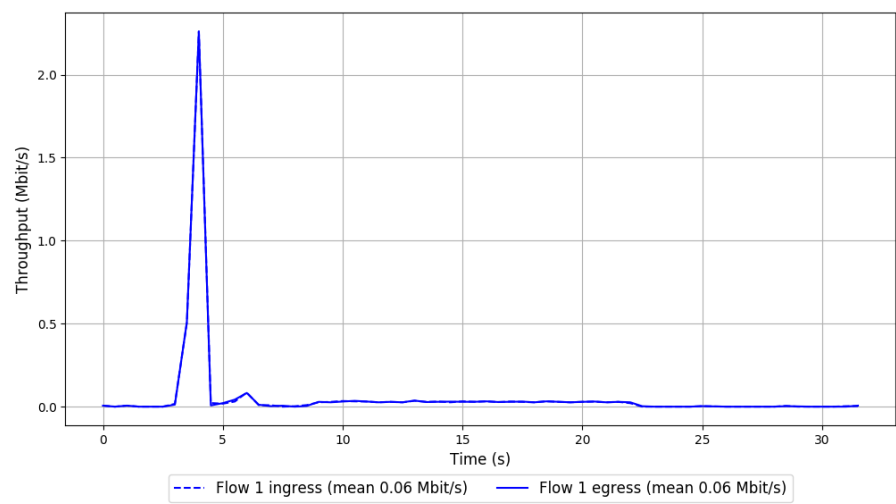
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.569 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-11 00:03:40

End at: 2018-04-11 00:04:10

Below is generated by plot.py at 2018-04-11 02:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.933 ms

Loss rate: 0.00%

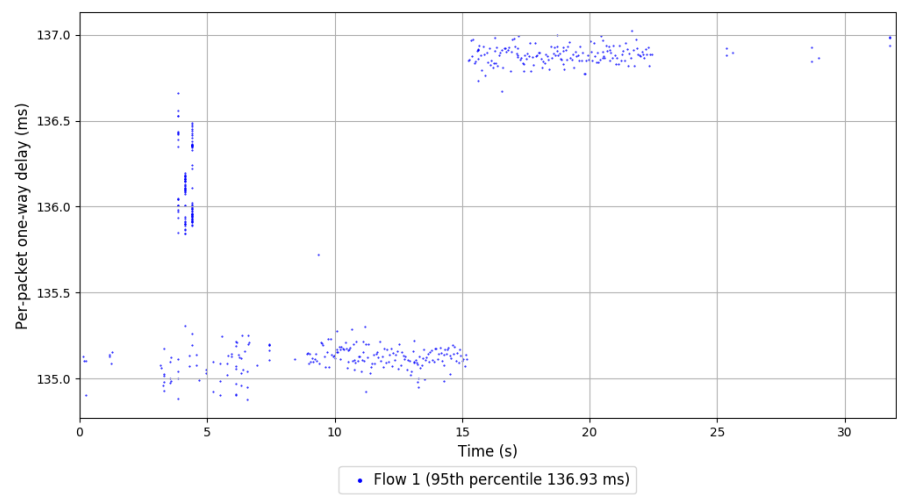
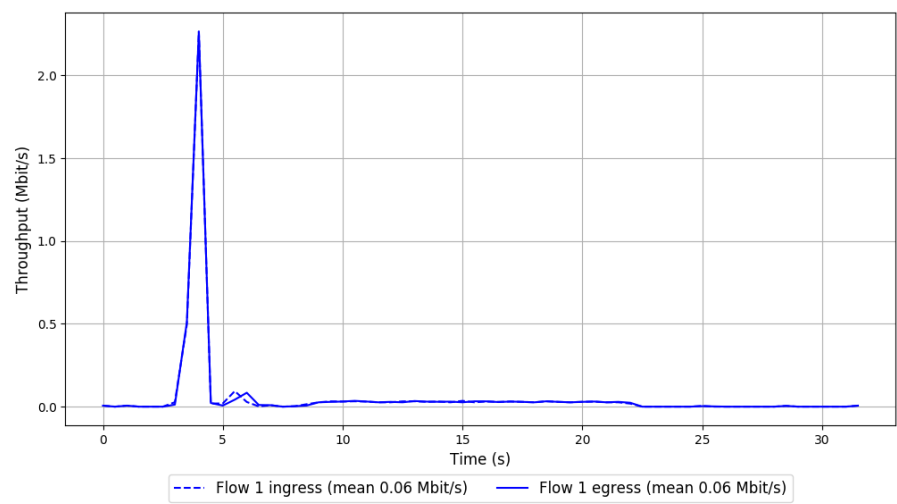
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.933 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-04-11 00:19:25

End at: 2018-04-11 00:19:55

Below is generated by plot.py at 2018-04-11 02:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.505 ms

Loss rate: 0.00%

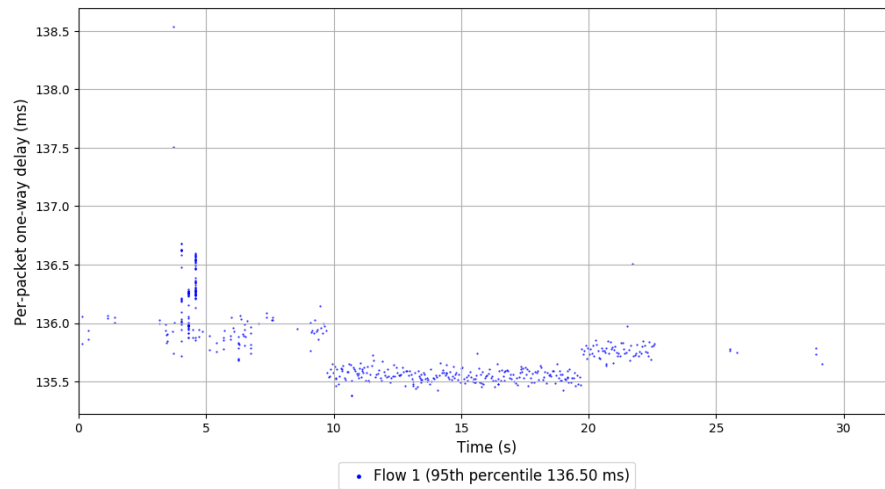
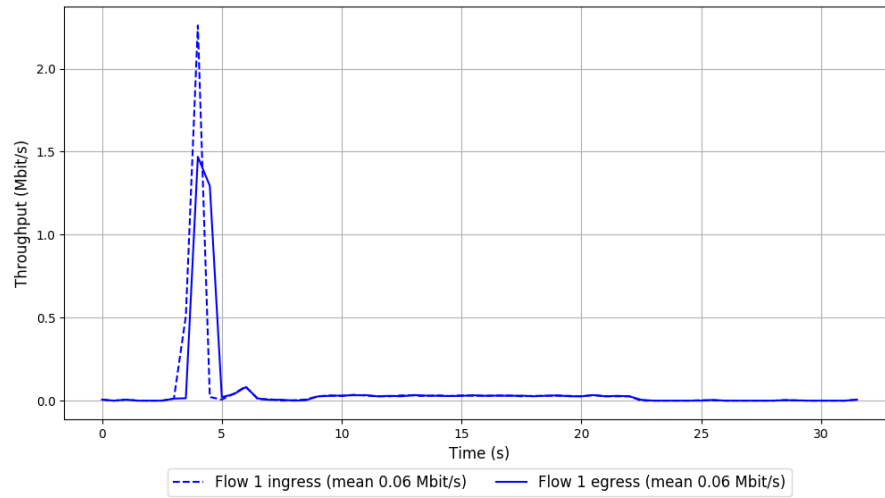
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.505 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-11 00:35:17

End at: 2018-04-11 00:35:47

Below is generated by plot.py at 2018-04-11 02:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.392 ms

Loss rate: 0.00%

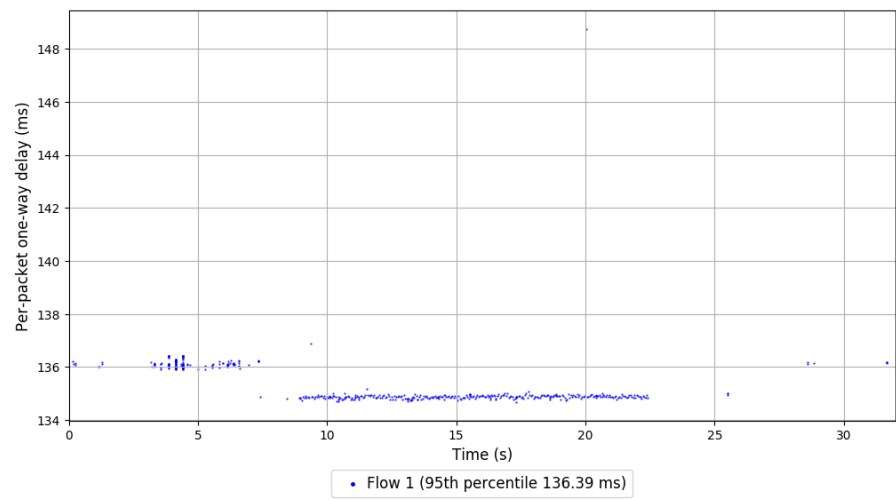
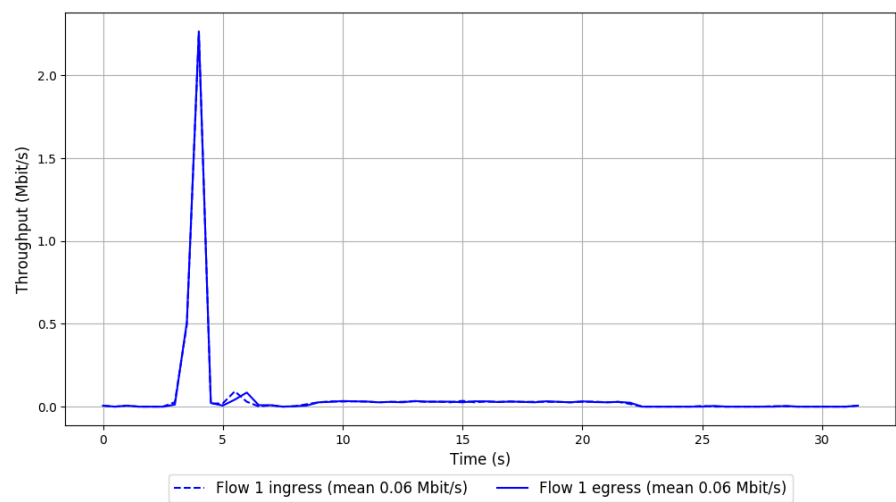
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.392 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

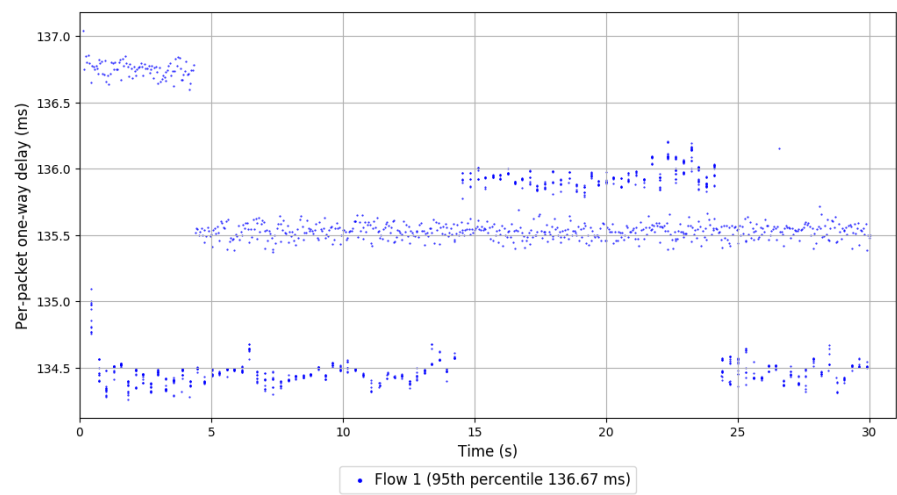
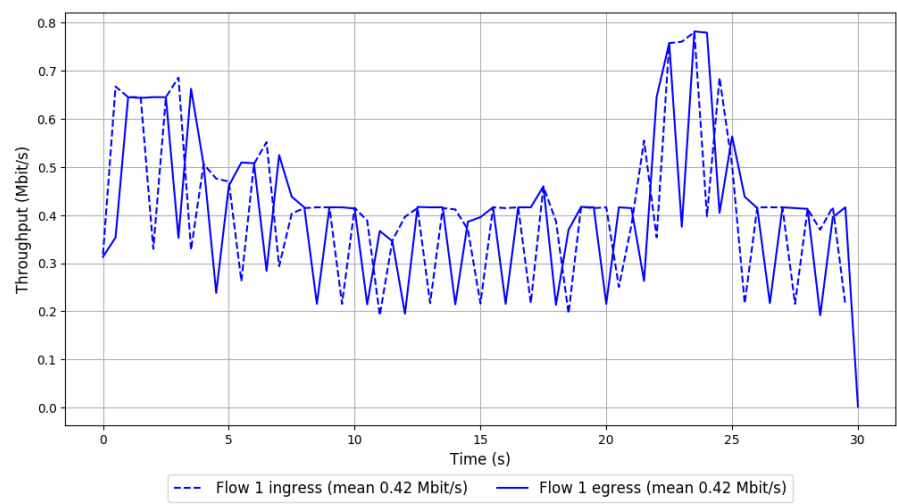


```
Run 1: Statistics of Sprout

Start at: 2018-04-10 22:06:08
End at: 2018-04-10 22:06:38

# Below is generated by plot.py at 2018-04-11 02:09:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 136.673 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 136.673 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-04-10 22:22:09

End at: 2018-04-10 22:22:39

Below is generated by plot.py at 2018-04-11 02:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.096 ms

Loss rate: 0.00%

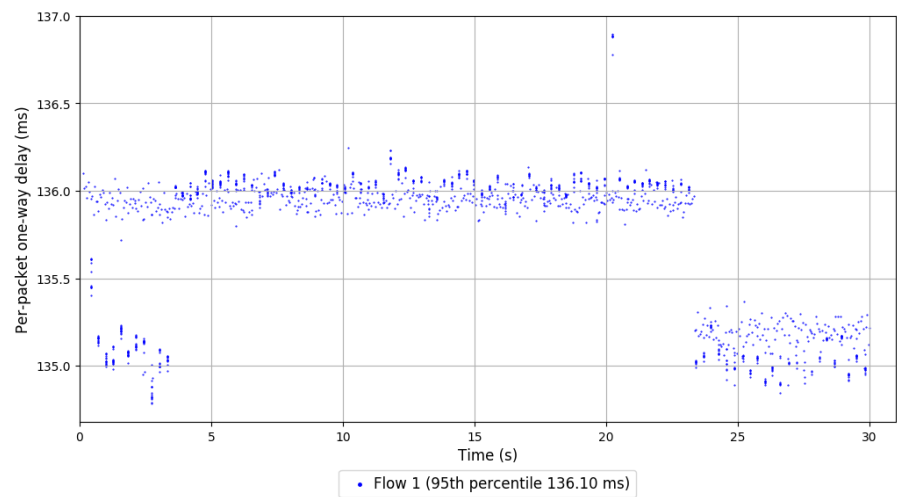
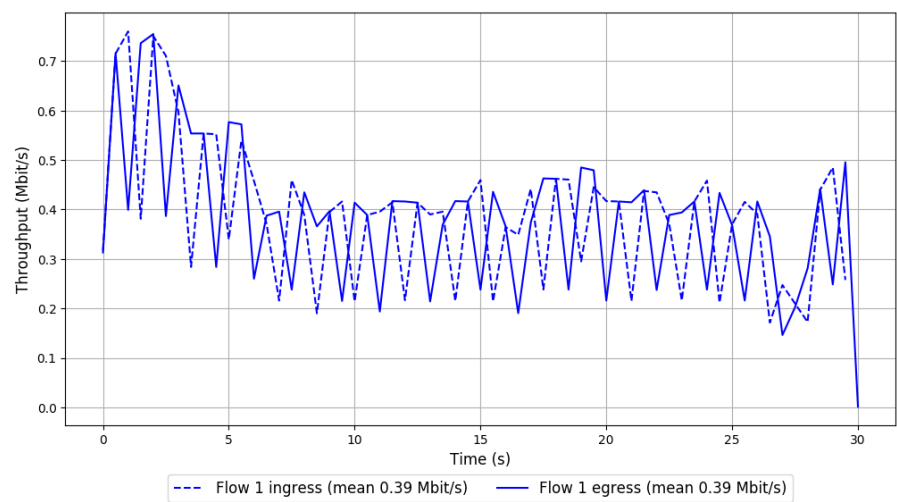
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.096 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-04-10 22:38:21

End at: 2018-04-10 22:38:51

Below is generated by plot.py at 2018-04-11 02:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.008 ms

Loss rate: 0.00%

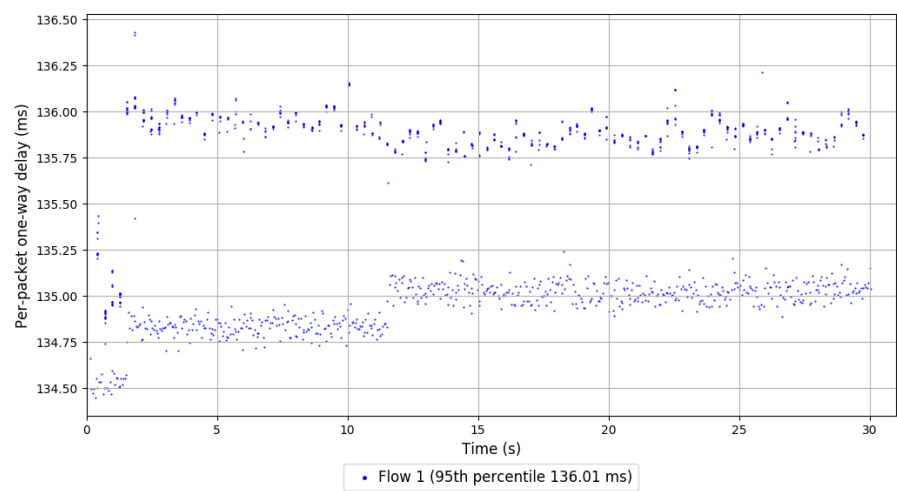
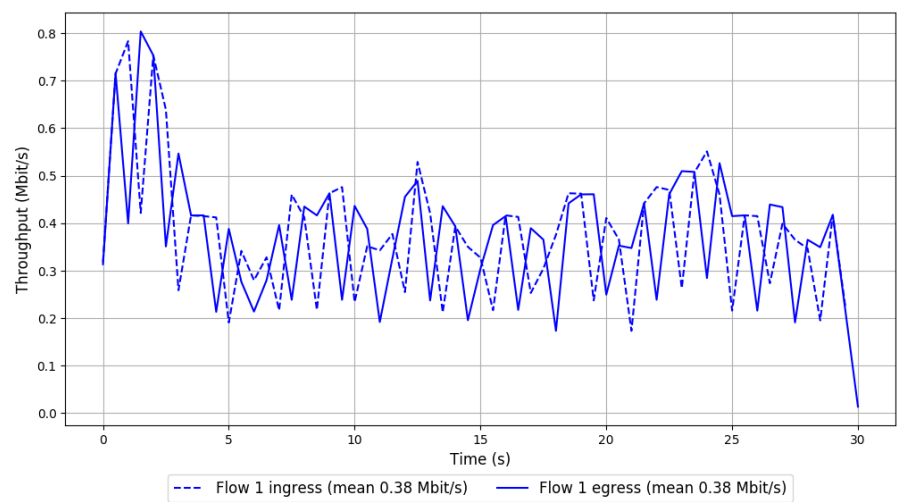
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.008 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-04-10 22:54:12

End at: 2018-04-10 22:54:42

Below is generated by plot.py at 2018-04-11 02:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.375 ms

Loss rate: 0.00%

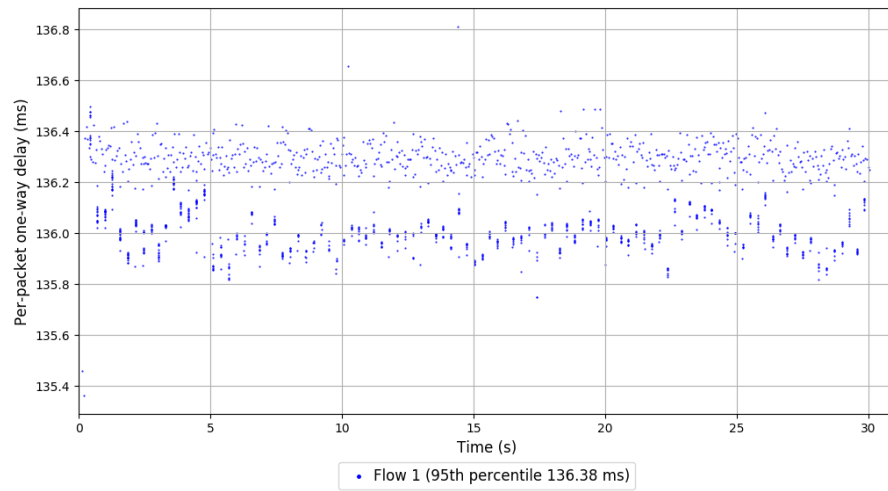
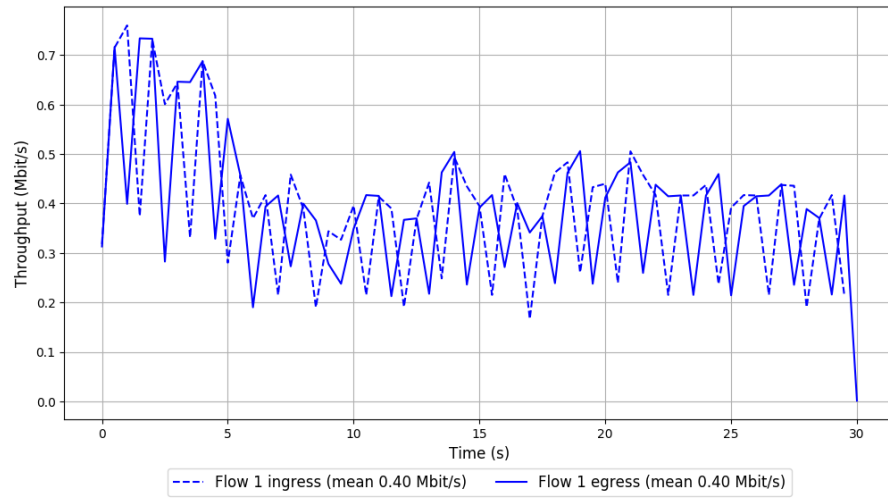
-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.375 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-04-10 23:10:06

End at: 2018-04-10 23:10:36

Below is generated by plot.py at 2018-04-11 02:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.268 ms

Loss rate: 0.00%

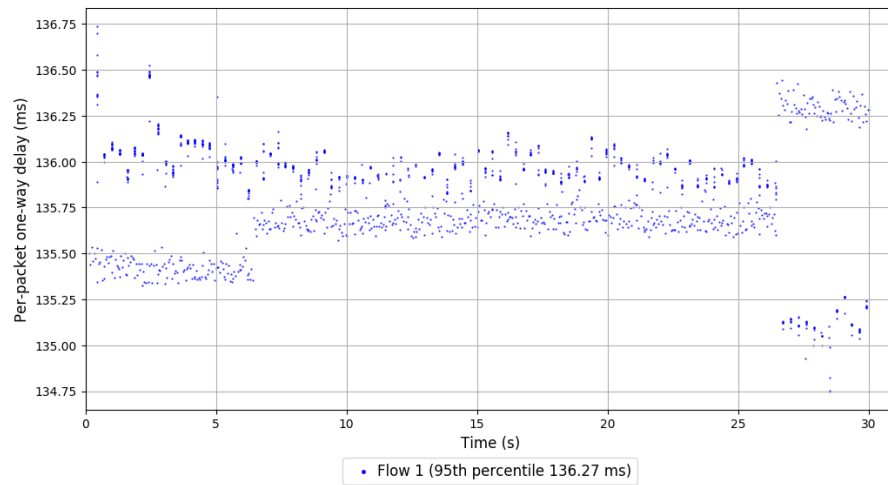
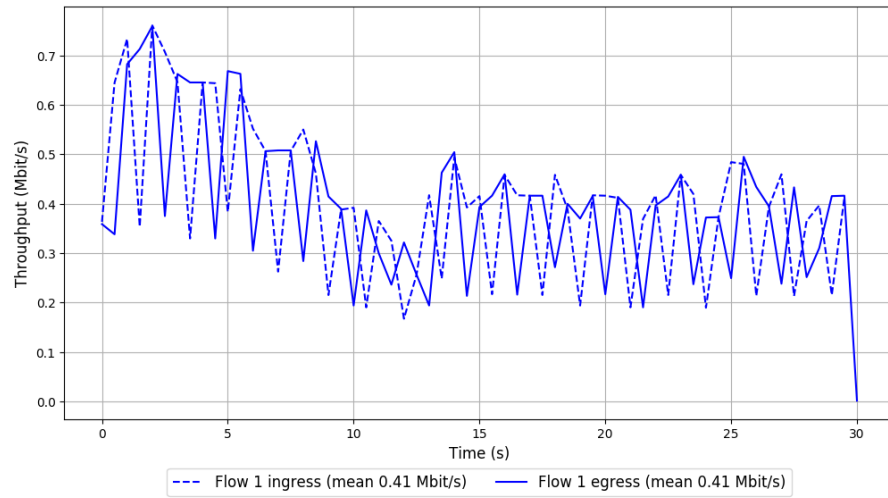
-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.268 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-04-10 23:26:20

End at: 2018-04-10 23:26:51

Below is generated by plot.py at 2018-04-11 02:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.387 ms

Loss rate: 0.00%

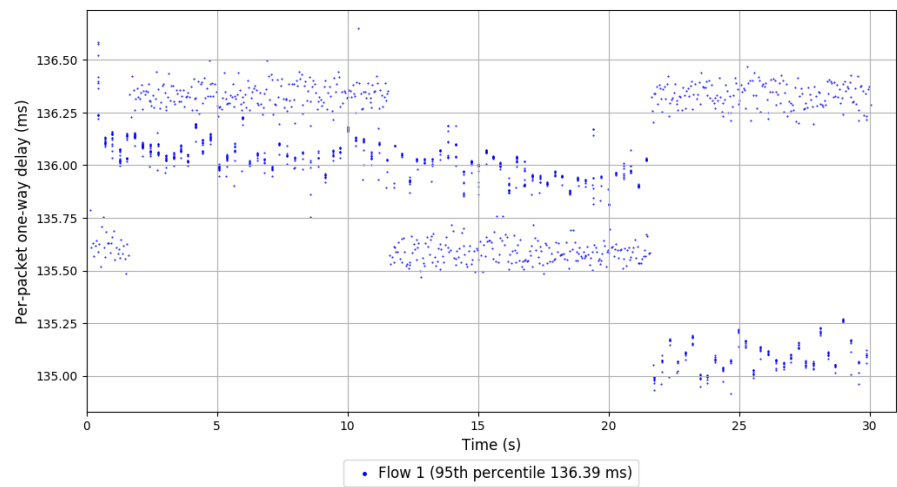
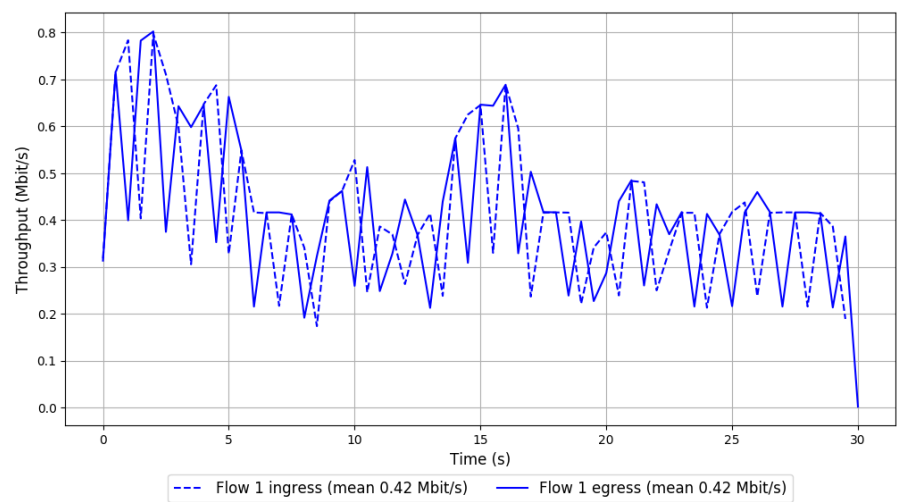
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.387 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-04-10 23:42:20

End at: 2018-04-10 23:42:50

Below is generated by plot.py at 2018-04-11 02:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.419 ms

Loss rate: 0.00%

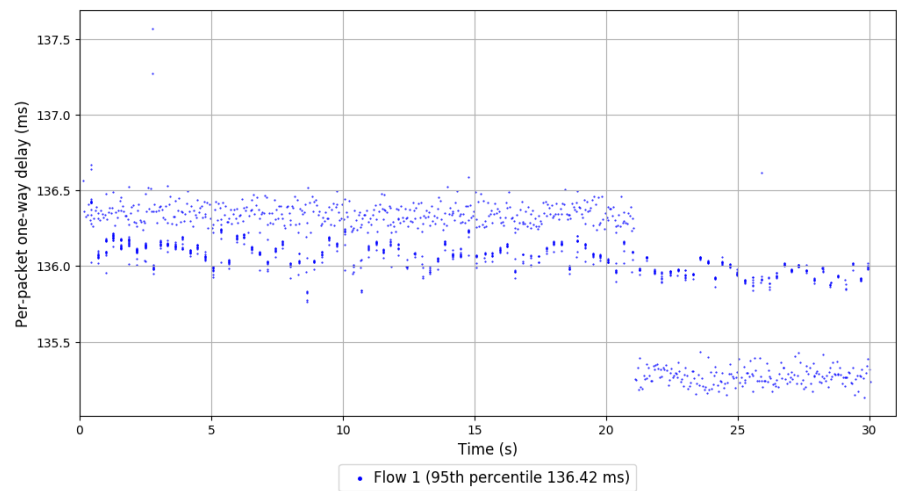
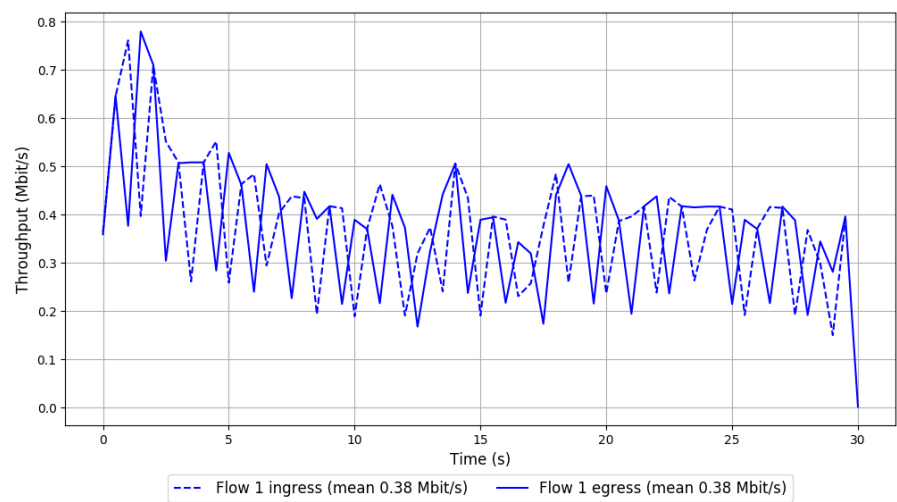
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.419 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-04-10 23:57:56

End at: 2018-04-10 23:58:27

Below is generated by plot.py at 2018-04-11 02:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.734 ms

Loss rate: 0.00%

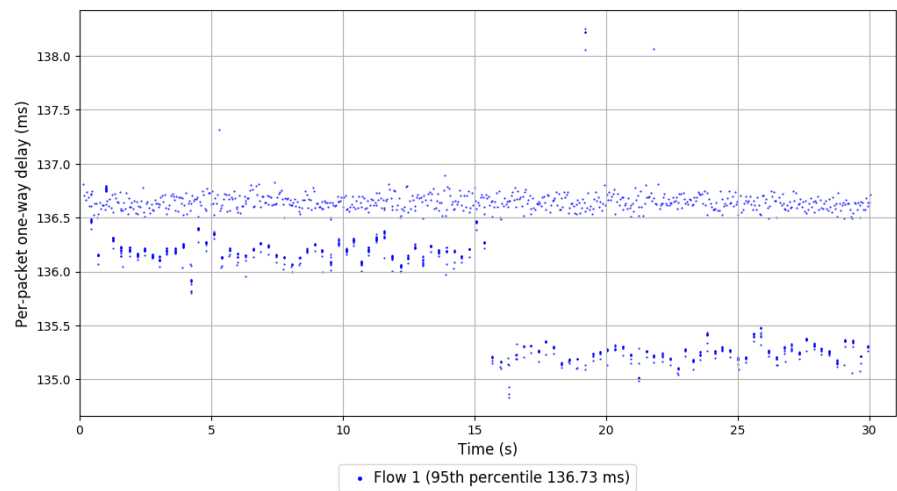
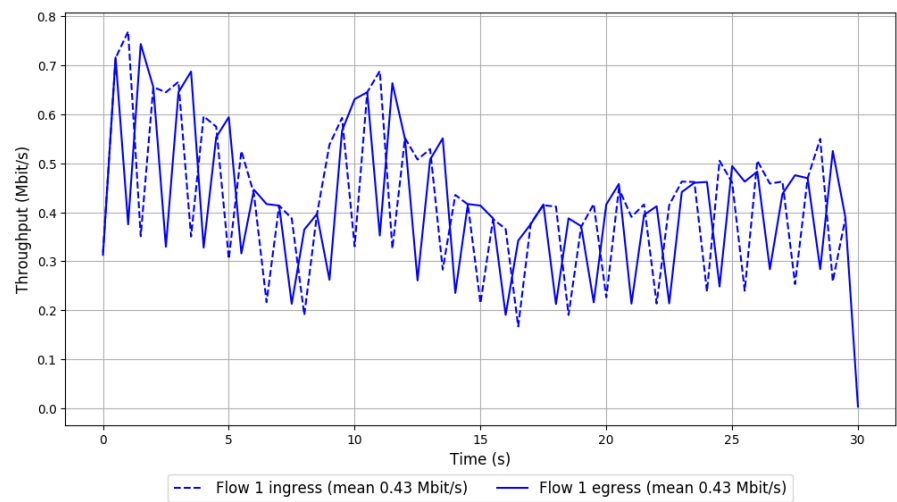
-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.734 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-04-11 00:14:01

End at: 2018-04-11 00:14:31

Below is generated by plot.py at 2018-04-11 02:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.298 ms

Loss rate: 0.00%

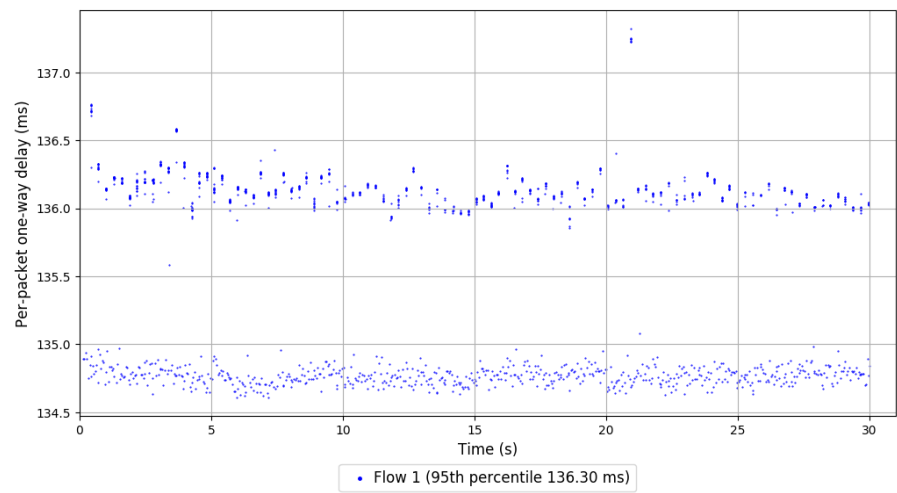
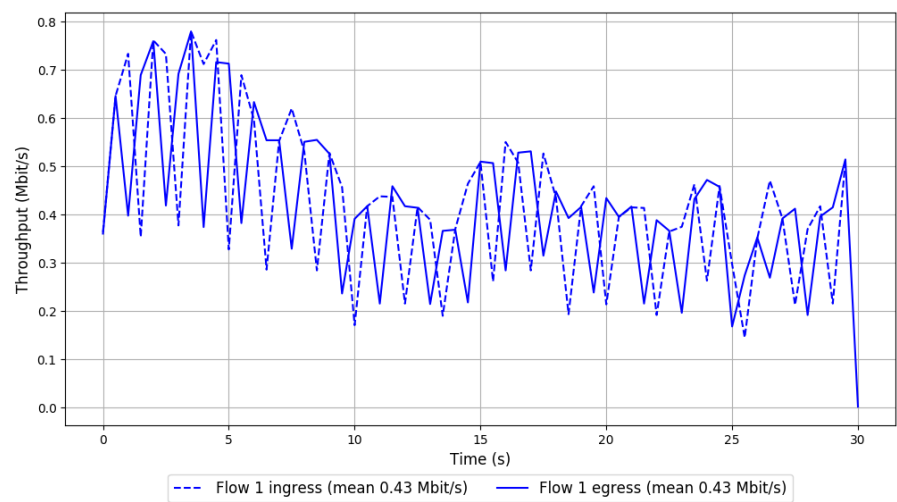
-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.298 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-04-11 00:29:46

End at: 2018-04-11 00:30:16

Below is generated by plot.py at 2018-04-11 02:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.185 ms

Loss rate: 0.00%

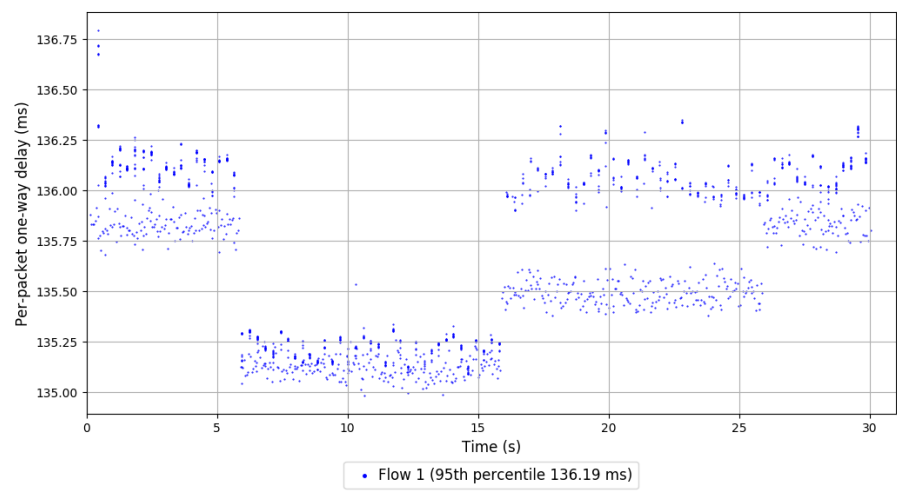
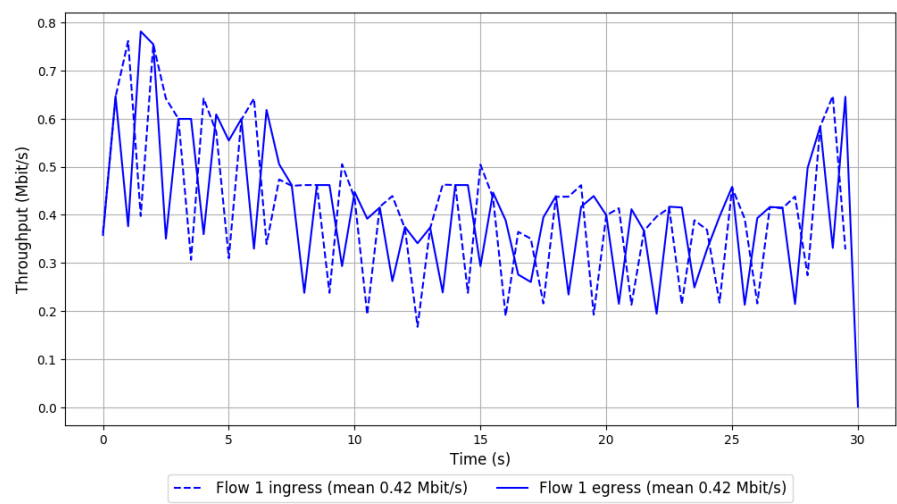
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.185 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

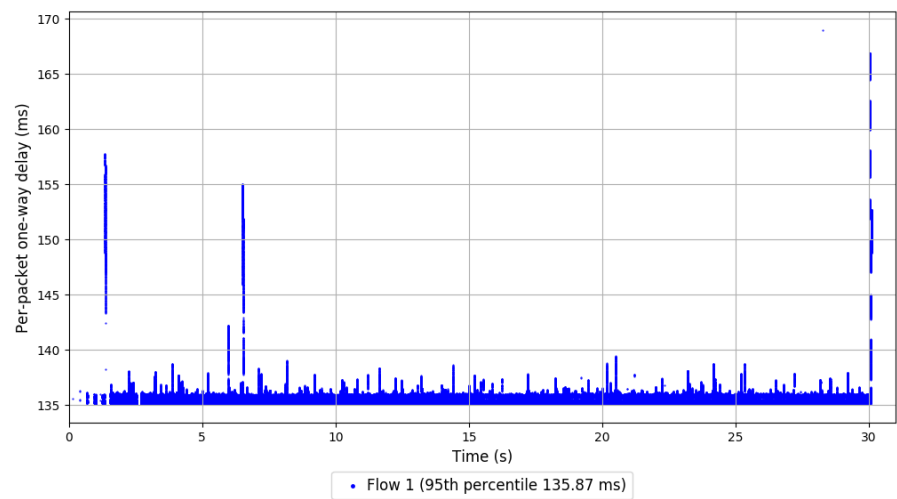
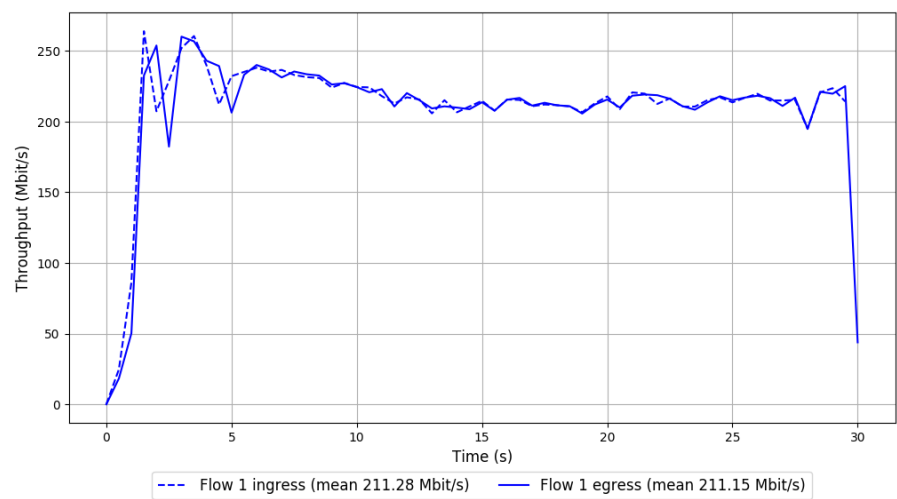


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-10 22:09:54
End at: 2018-04-10 22:10:24

# Below is generated by plot.py at 2018-04-11 02:09:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.15 Mbit/s
95th percentile per-packet one-way delay: 135.869 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 211.15 Mbit/s
95th percentile per-packet one-way delay: 135.869 ms
Loss rate: 0.06%
```

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

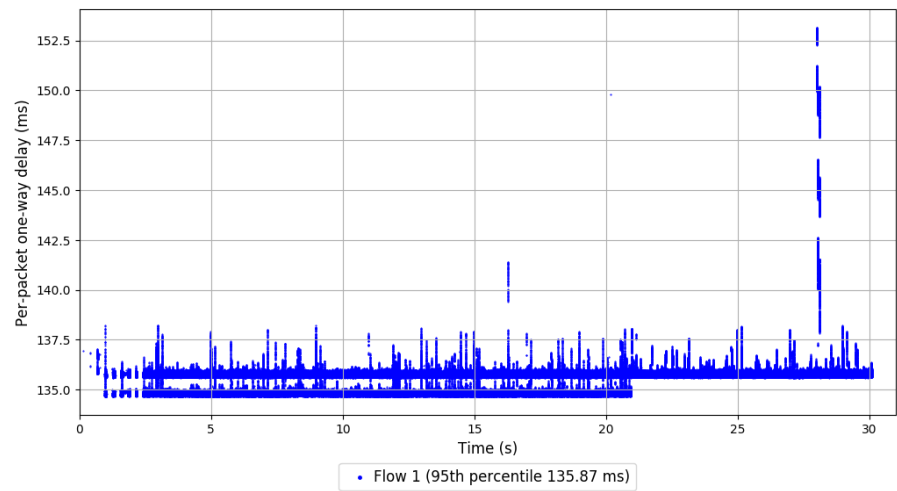
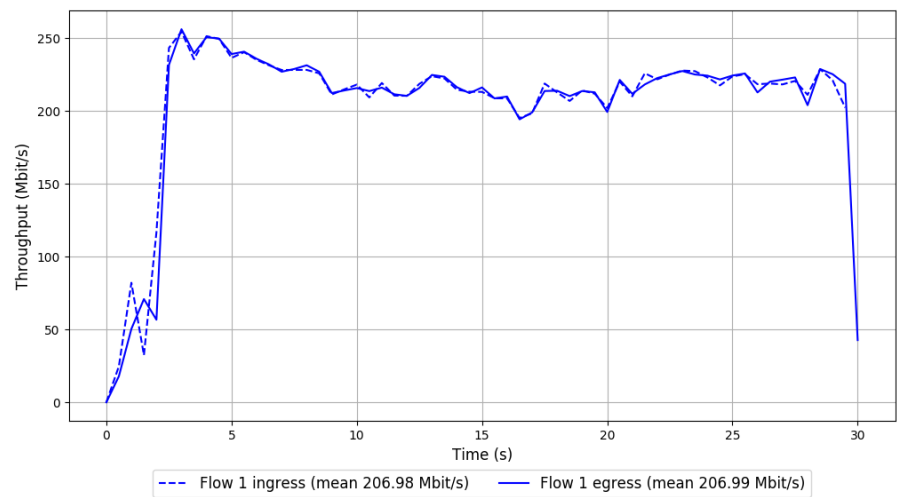


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-04-10 22:26:01
End at: 2018-04-10 22:26:31

# Below is generated by plot.py at 2018-04-11 02:09:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 206.99 Mbit/s
95th percentile per-packet one-way delay: 135.868 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 206.99 Mbit/s
95th percentile per-packet one-way delay: 135.868 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-10 22:42:13

End at: 2018-04-10 22:42:43

Below is generated by plot.py at 2018-04-11 02:09:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.42 Mbit/s

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

Loss rate: 0.00%

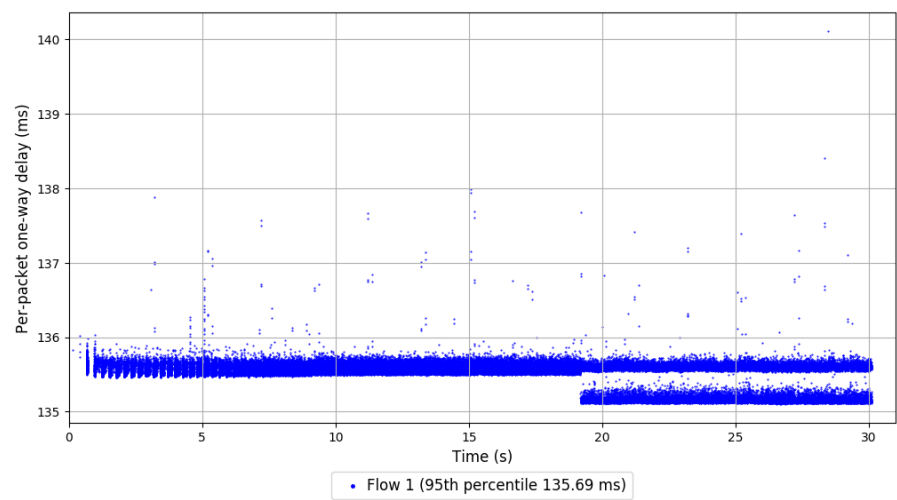
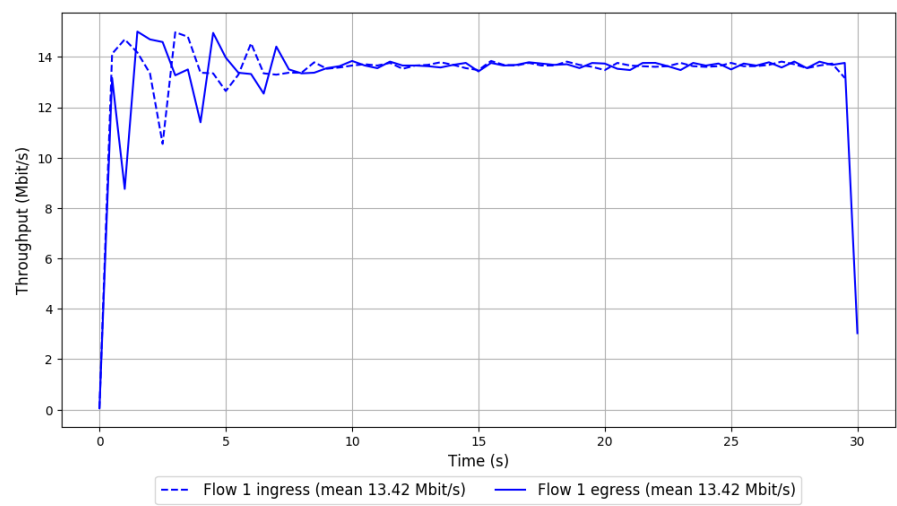
-- Flow 1:

Average throughput: 13.42 Mbit/s

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

Loss rate: 0.00%

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

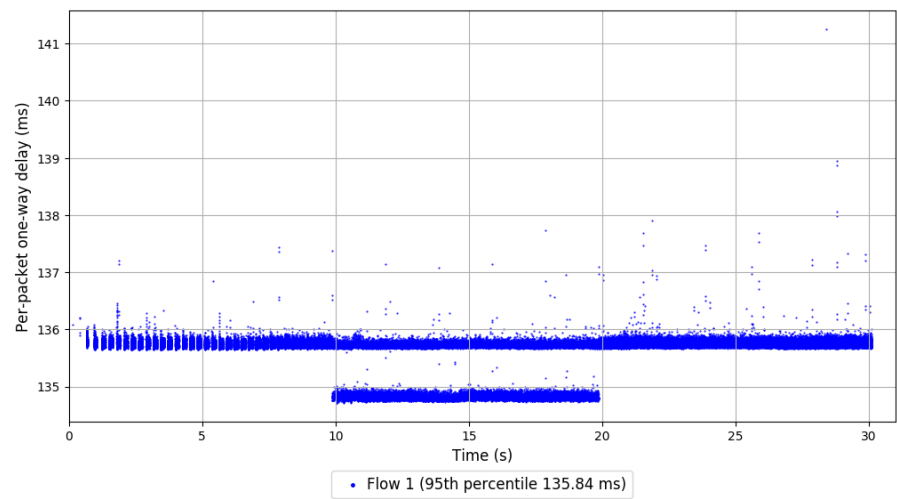
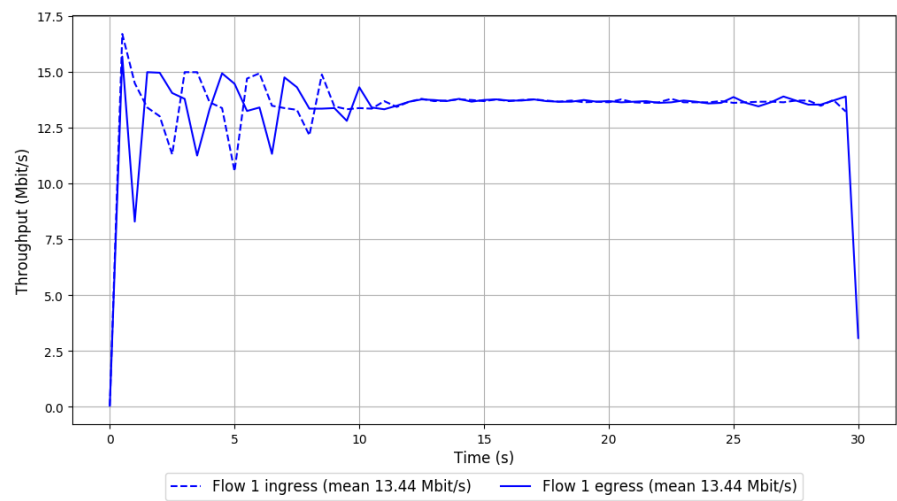


```
Run 4: Statistics of TaoVA-100x

Start at: 2018-04-10 22:58:02
End at: 2018-04-10 22:58:32

# Below is generated by plot.py at 2018-04-11 02:09:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.44 Mbit/s
95th percentile per-packet one-way delay: 135.845 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.44 Mbit/s
95th percentile per-packet one-way delay: 135.845 ms
Loss rate: 0.00%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-10 23:13:58

End at: 2018-04-10 23:14:28

Below is generated by plot.py at 2018-04-11 02:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.37 Mbit/s

95th percentile per-packet one-way delay: 135.800 ms

Loss rate: 0.00%

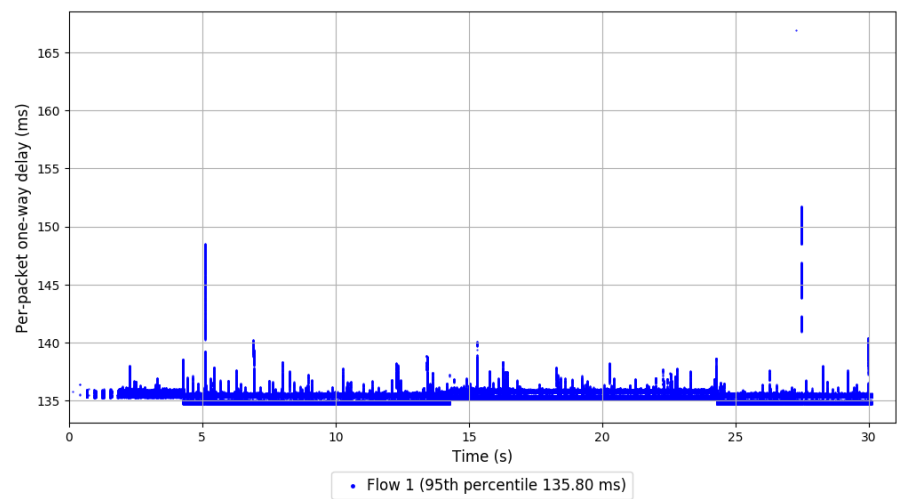
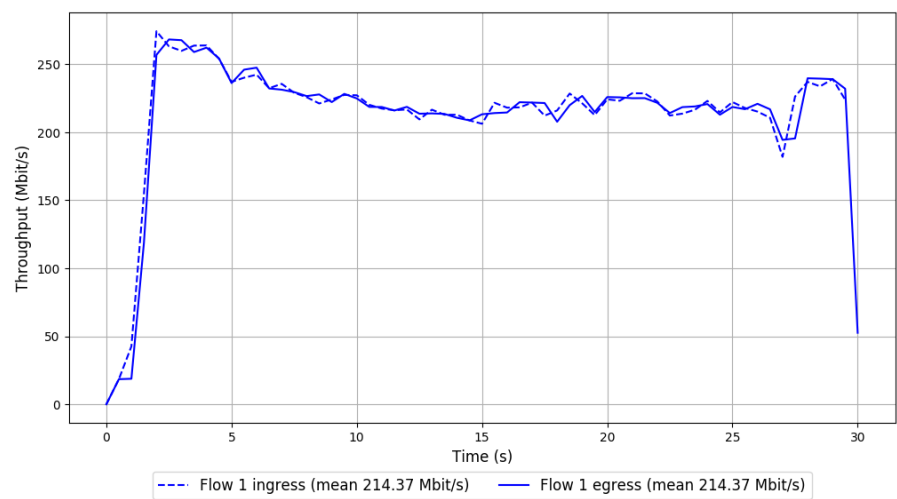
-- Flow 1:

Average throughput: 214.37 Mbit/s

95th percentile per-packet one-way delay: 135.800 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-10 23:30:12

End at: 2018-04-10 23:30:42

Below is generated by plot.py at 2018-04-11 02:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.26 Mbit/s

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

Loss rate: 0.00%

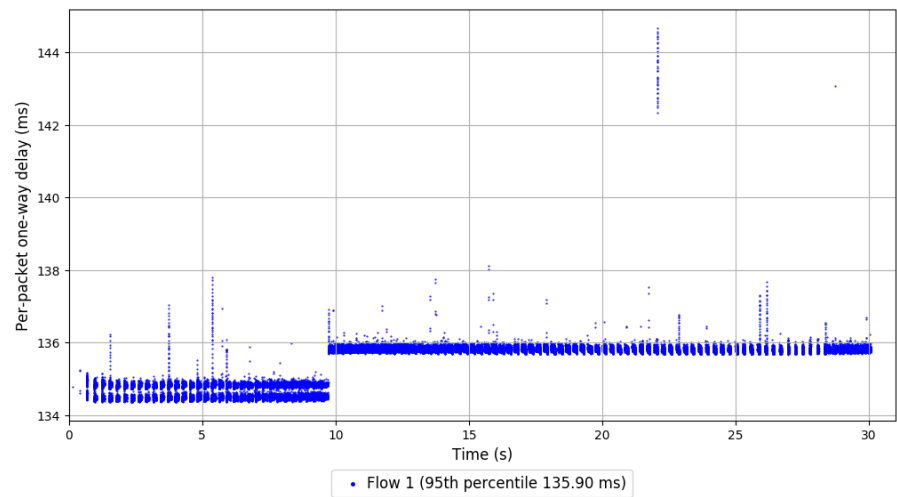
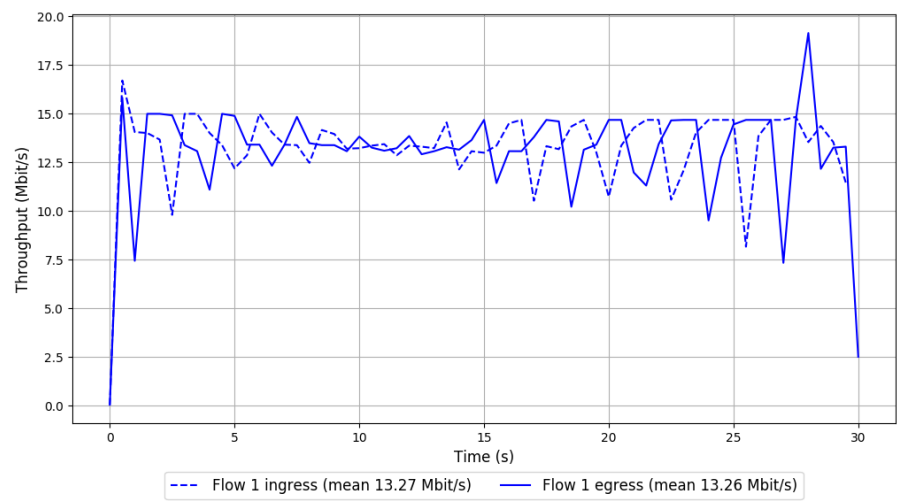
-- Flow 1:

Average throughput: 13.26 Mbit/s

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

Loss rate: 0.00%

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

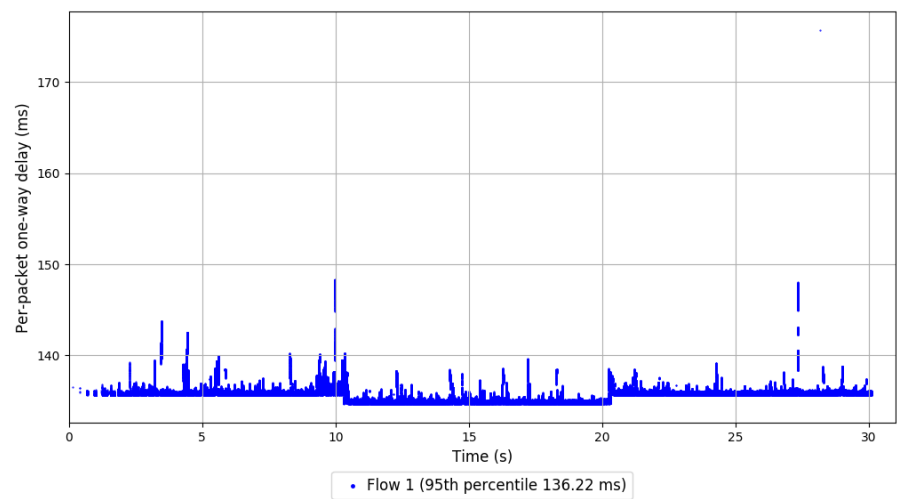
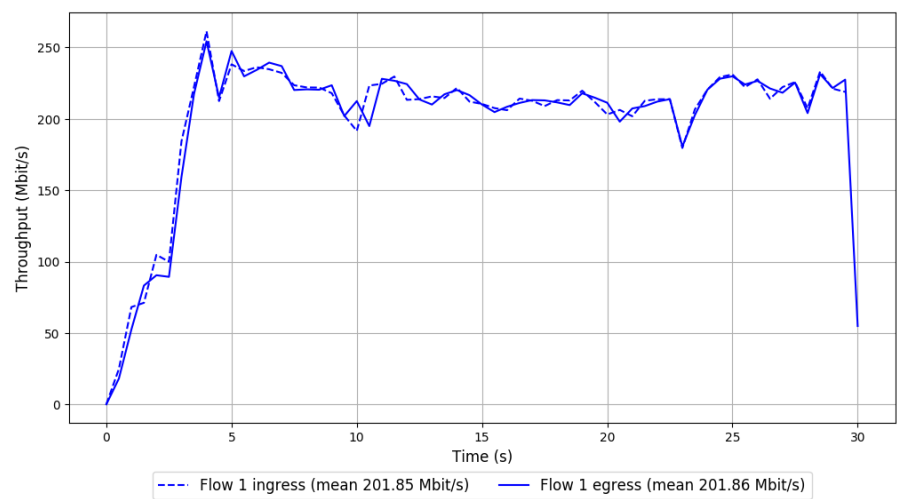


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-04-10 23:46:02
End at: 2018-04-10 23:46:32

# Below is generated by plot.py at 2018-04-11 02:10:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 201.86 Mbit/s
95th percentile per-packet one-way delay: 136.223 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 201.86 Mbit/s
95th percentile per-packet one-way delay: 136.223 ms
Loss rate: 0.00%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-11 00:01:42

End at: 2018-04-11 00:02:12

Below is generated by plot.py at 2018-04-11 02:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.15 Mbit/s

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

Loss rate: 0.00%

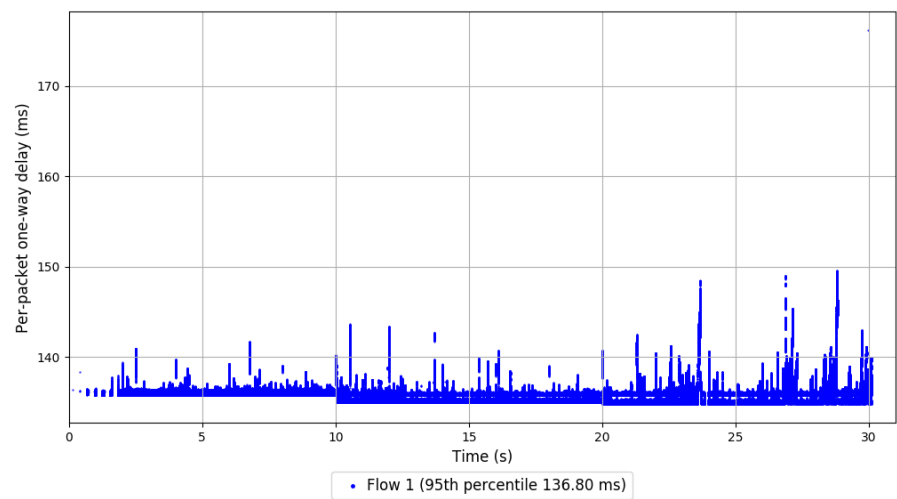
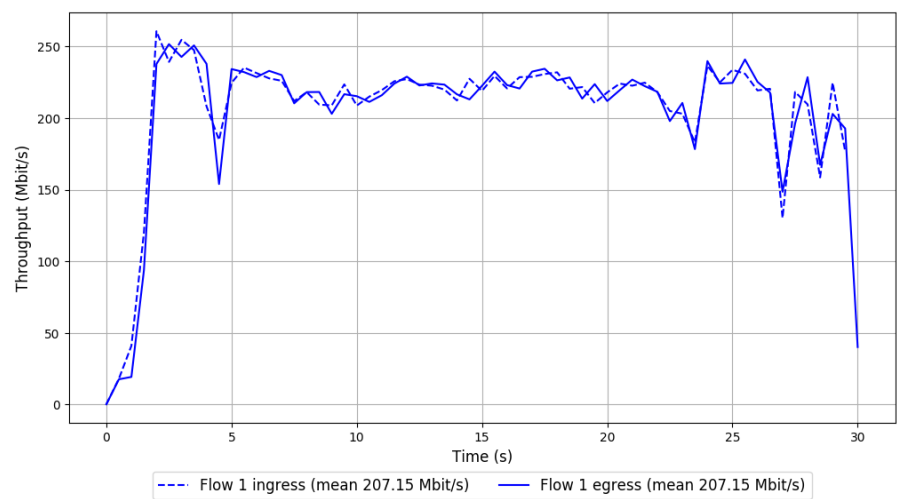
-- Flow 1:

Average throughput: 207.15 Mbit/s

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

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-04-11 00:17:46

End at: 2018-04-11 00:18:16

Below is generated by plot.py at 2018-04-11 02:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.37 Mbit/s

95th percentile per-packet one-way delay: 135.973 ms

Loss rate: 0.00%

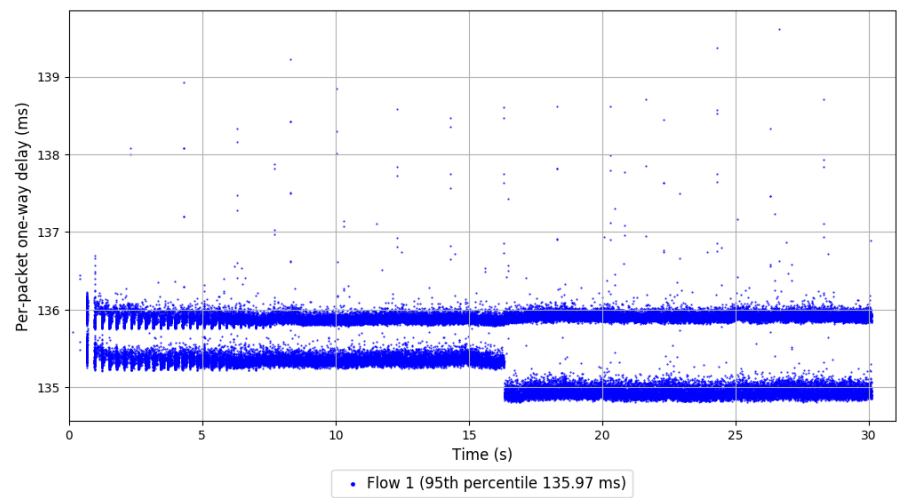
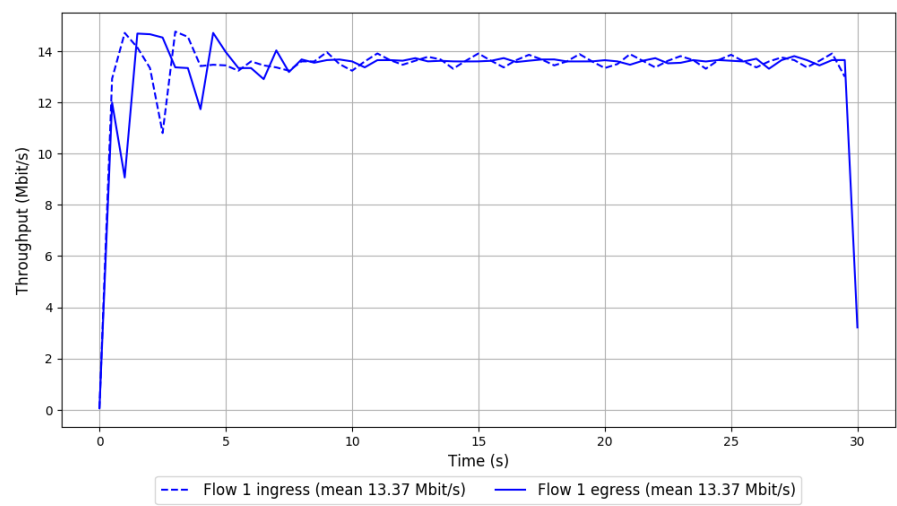
-- Flow 1:

Average throughput: 13.37 Mbit/s

95th percentile per-packet one-way delay: 135.973 ms

Loss rate: 0.00%

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

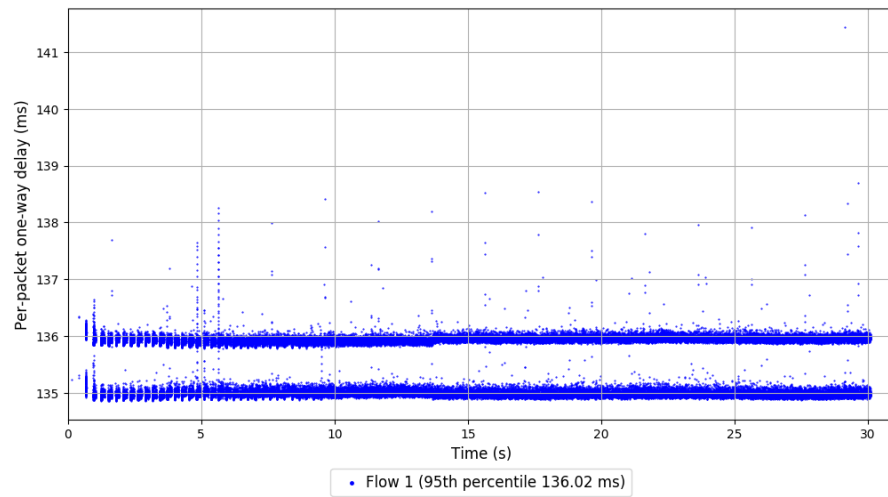
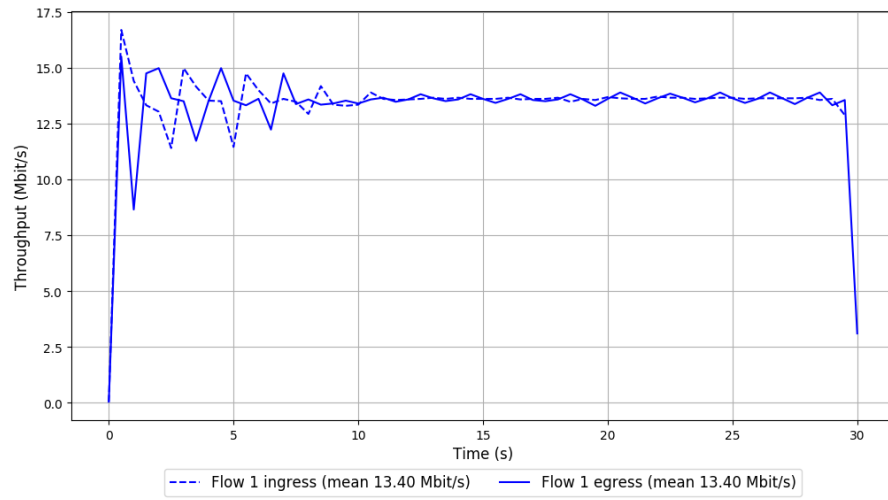


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-04-11 00:33:39
End at: 2018-04-11 00:34:09

# Below is generated by plot.py at 2018-04-11 02:10:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.40 Mbit/s
95th percentile per-packet one-way delay: 136.020 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.40 Mbit/s
95th percentile per-packet one-way delay: 136.020 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-10 22:19:30

End at: 2018-04-10 22:20:00

Below is generated by plot.py at 2018-04-11 02:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.22 Mbit/s

95th percentile per-packet one-way delay: 137.109 ms

Loss rate: 0.00%

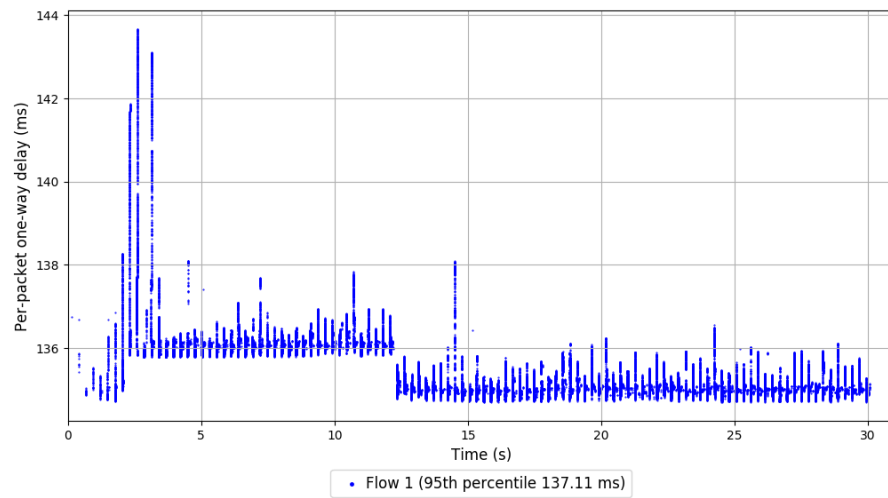
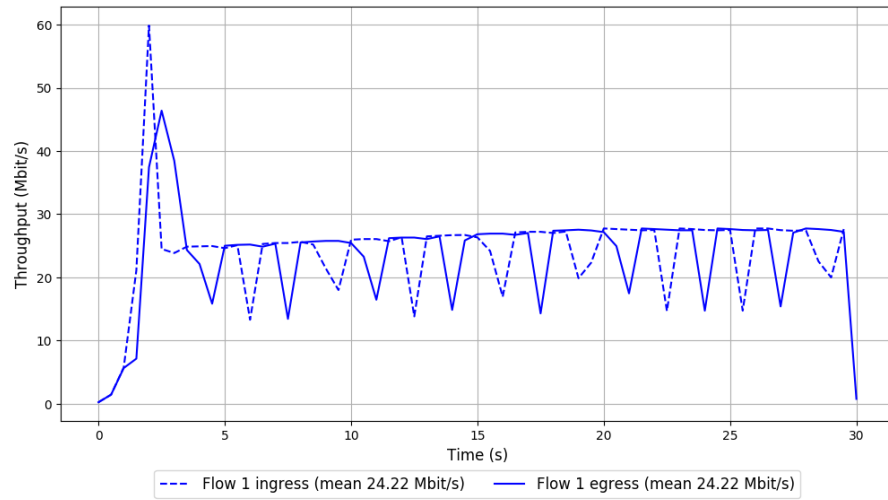
-- Flow 1:

Average throughput: 24.22 Mbit/s

95th percentile per-packet one-way delay: 137.109 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-10 22:35:44

End at: 2018-04-10 22:36:14

Below is generated by plot.py at 2018-04-11 02:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.81 Mbit/s

95th percentile per-packet one-way delay: 136.951 ms

Loss rate: 0.00%

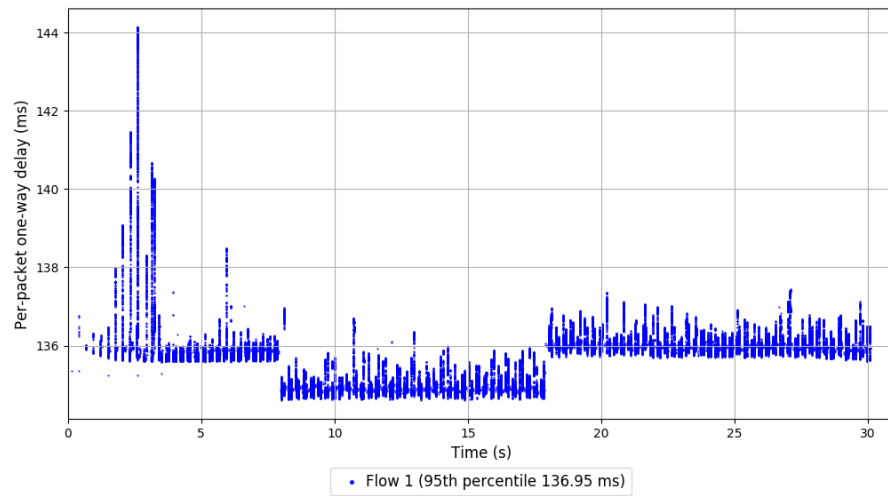
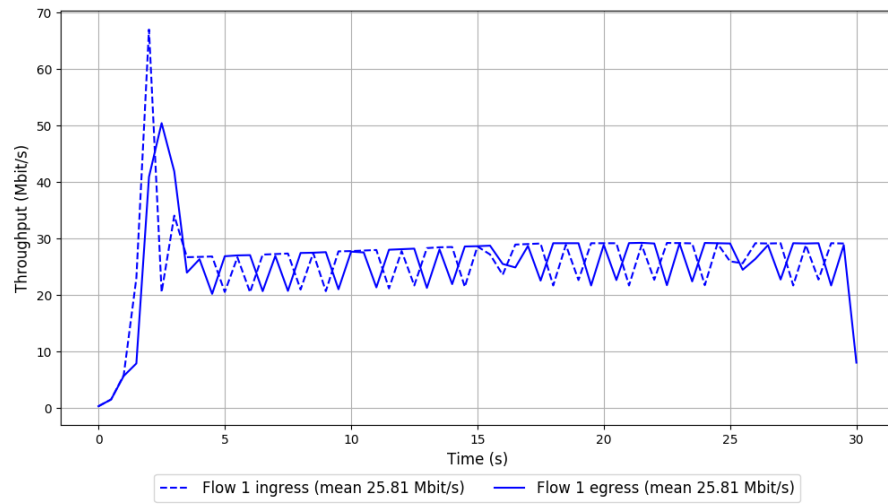
-- Flow 1:

Average throughput: 25.81 Mbit/s

95th percentile per-packet one-way delay: 136.951 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-10 22:51:35

End at: 2018-04-10 22:52:05

Below is generated by plot.py at 2018-04-11 02:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.85 Mbit/s

95th percentile per-packet one-way delay: 137.366 ms

Loss rate: 0.00%

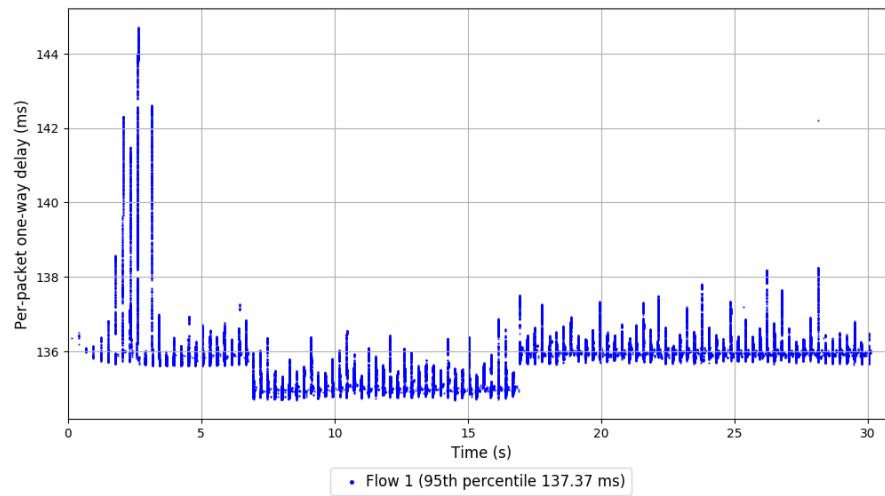
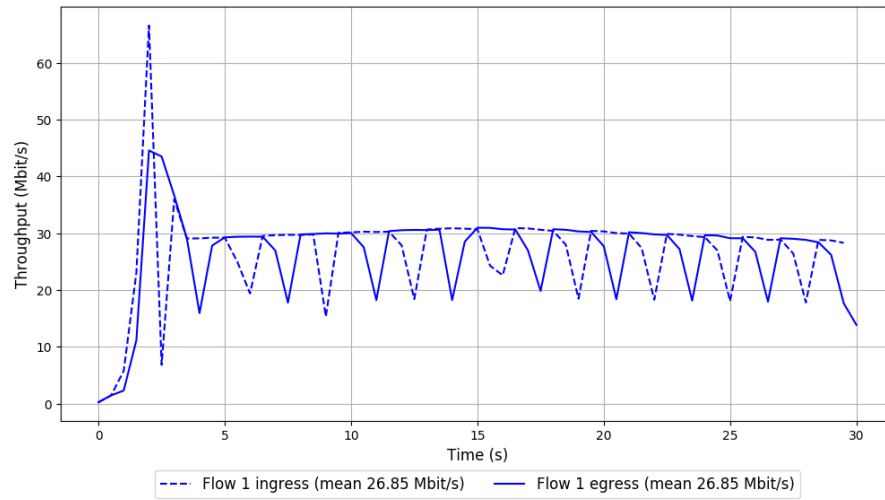
-- Flow 1:

Average throughput: 26.85 Mbit/s

95th percentile per-packet one-way delay: 137.366 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-04-10 23:07:32

End at: 2018-04-10 23:08:02

Below is generated by plot.py at 2018-04-11 02:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.63 Mbit/s

95th percentile per-packet one-way delay: 137.084 ms

Loss rate: 0.00%

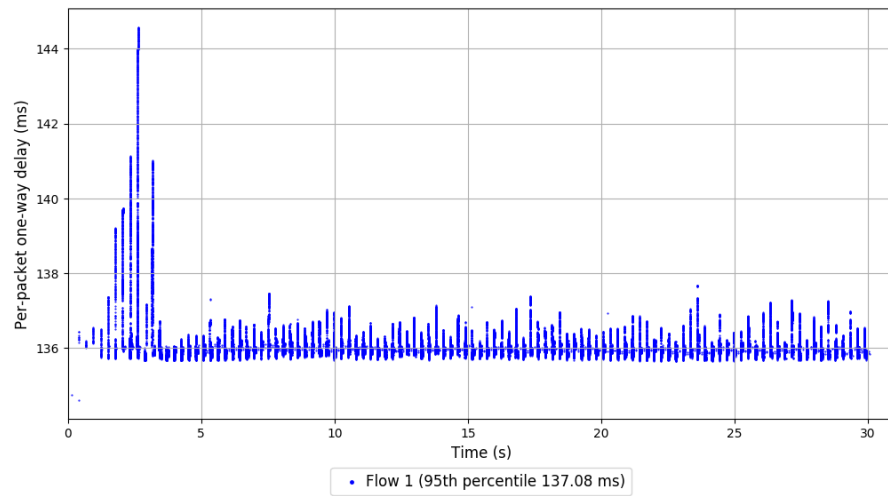
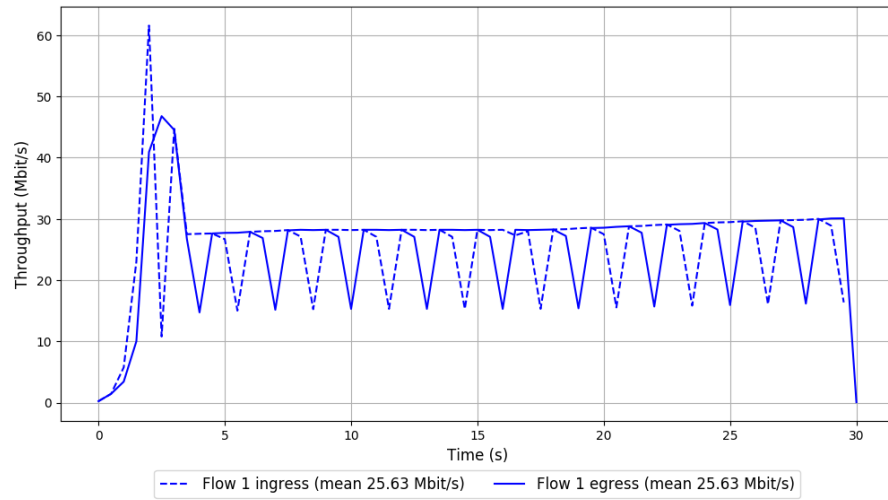
-- Flow 1:

Average throughput: 25.63 Mbit/s

95th percentile per-packet one-way delay: 137.084 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-10 23:23:44

End at: 2018-04-10 23:24:14

Below is generated by plot.py at 2018-04-11 02:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.03 Mbit/s

95th percentile per-packet one-way delay: 136.991 ms

Loss rate: 0.00%

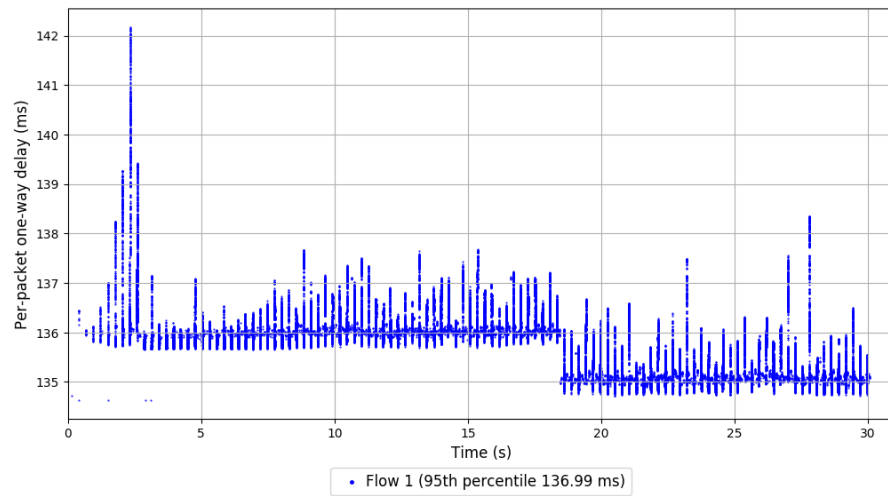
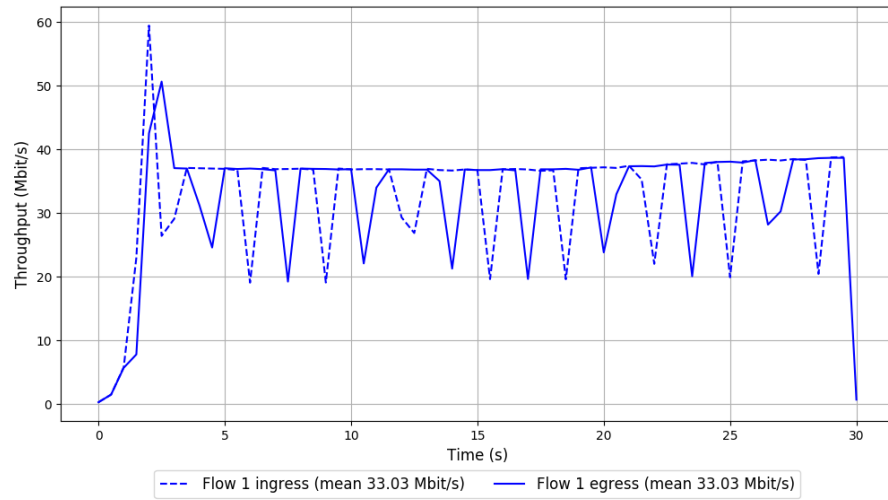
-- Flow 1:

Average throughput: 33.03 Mbit/s

95th percentile per-packet one-way delay: 136.991 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-04-10 23:39:43

End at: 2018-04-10 23:40:13

Below is generated by plot.py at 2018-04-11 02:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.07 Mbit/s

95th percentile per-packet one-way delay: 137.388 ms

Loss rate: 0.00%

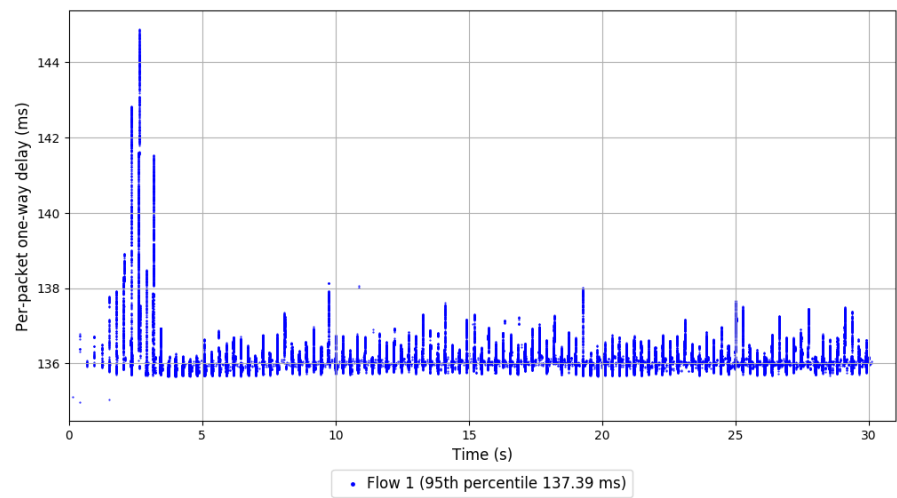
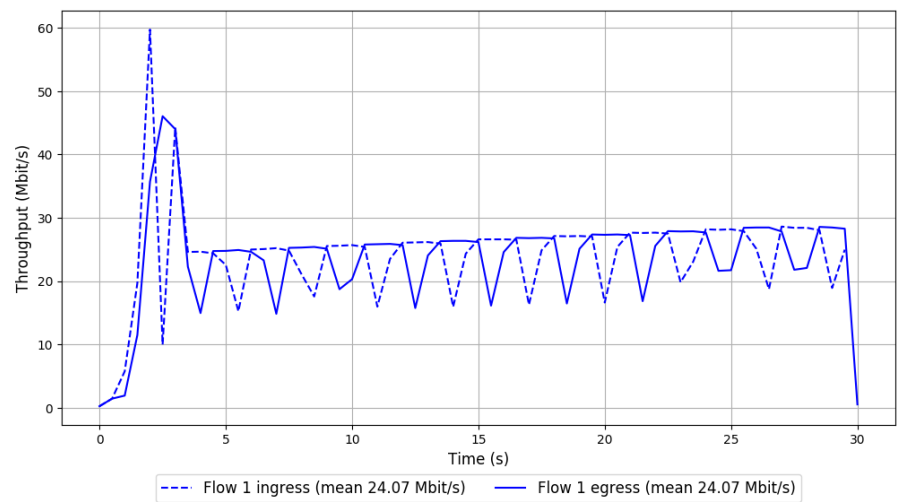
-- Flow 1:

Average throughput: 24.07 Mbit/s

95th percentile per-packet one-way delay: 137.388 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-04-10 23:55:22

End at: 2018-04-10 23:55:52

Below is generated by plot.py at 2018-04-11 02:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.39 Mbit/s

95th percentile per-packet one-way delay: 138.505 ms

Loss rate: 0.00%

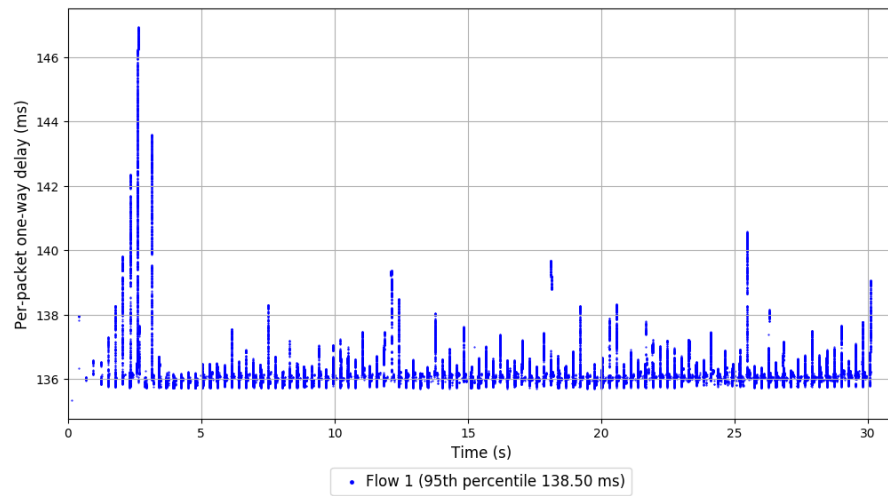
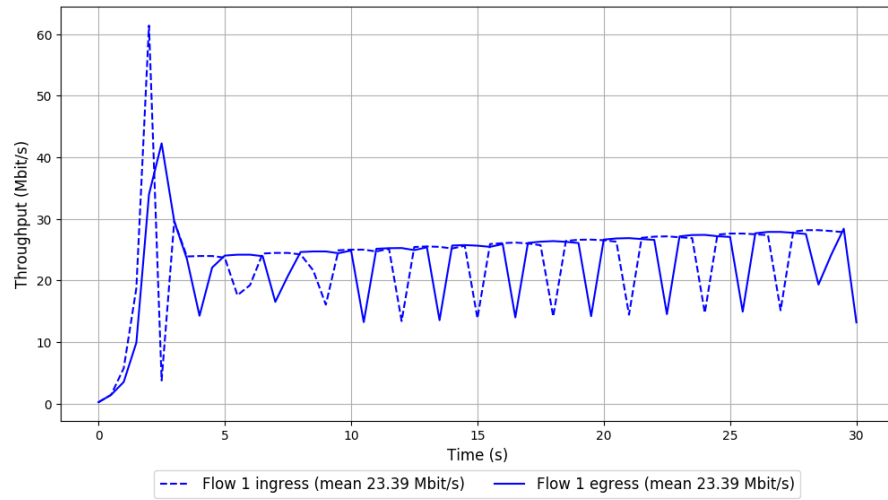
-- Flow 1:

Average throughput: 23.39 Mbit/s

95th percentile per-packet one-way delay: 138.505 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-11 00:11:25

End at: 2018-04-11 00:11:55

Below is generated by plot.py at 2018-04-11 02:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.86 Mbit/s

95th percentile per-packet one-way delay: 137.576 ms

Loss rate: 0.00%

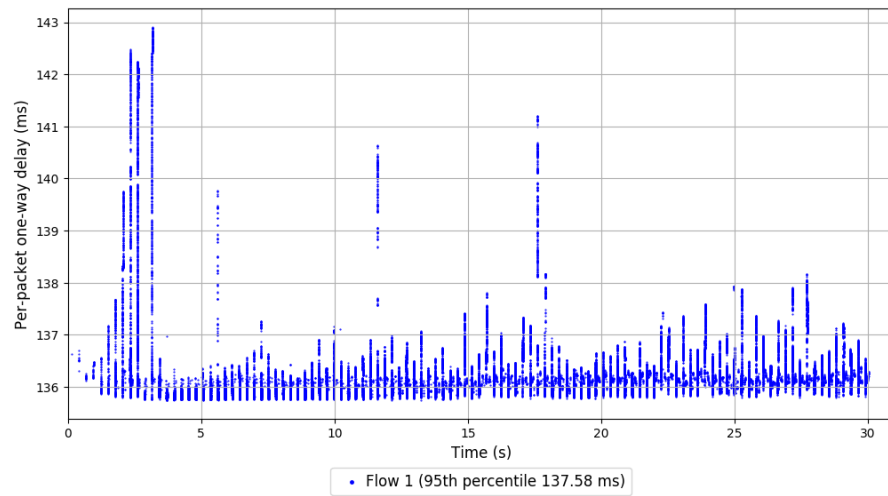
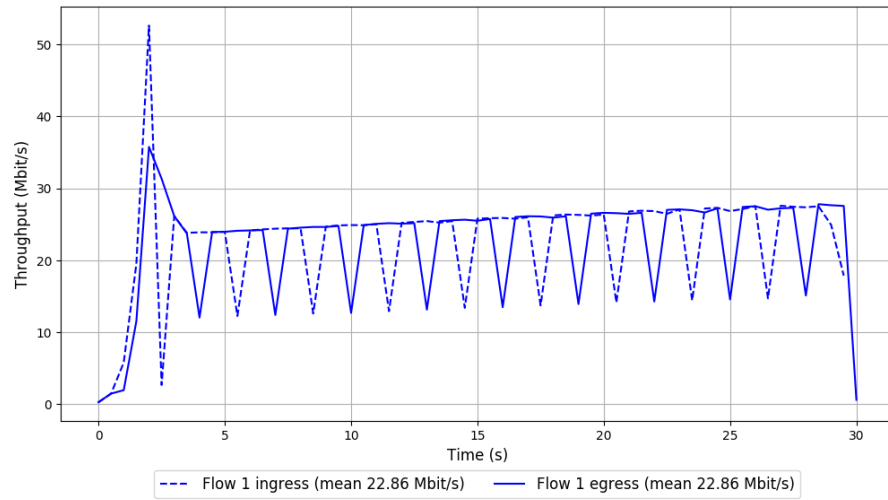
-- Flow 1:

Average throughput: 22.86 Mbit/s

95th percentile per-packet one-way delay: 137.576 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-04-11 00:27:11

End at: 2018-04-11 00:27:41

Below is generated by plot.py at 2018-04-11 02:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.56 Mbit/s

95th percentile per-packet one-way delay: 137.588 ms

Loss rate: 0.00%

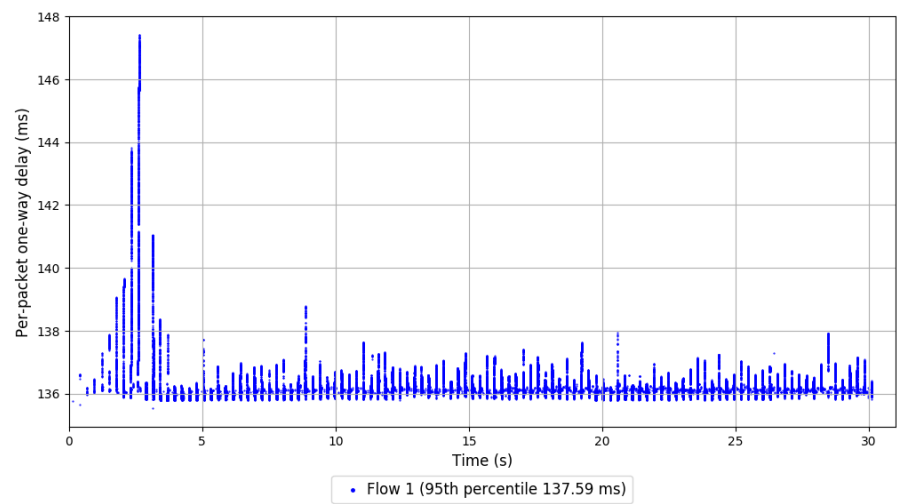
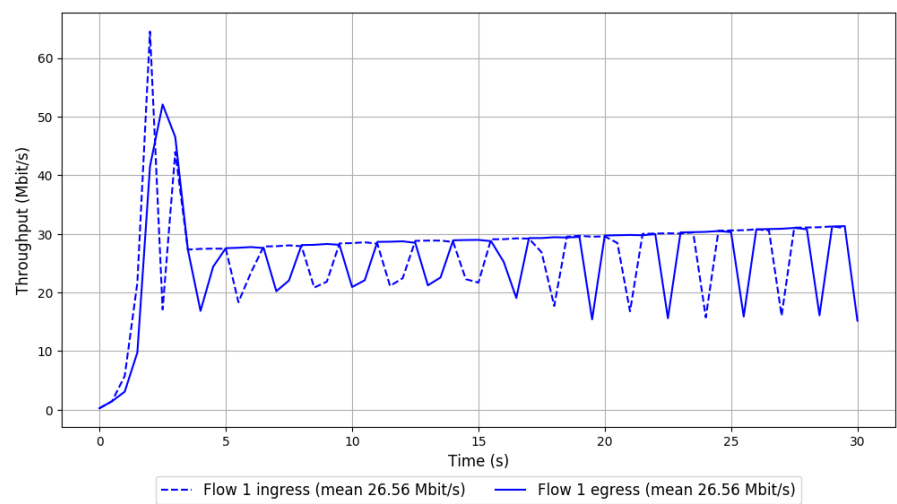
-- Flow 1:

Average throughput: 26.56 Mbit/s

95th percentile per-packet one-way delay: 137.588 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-11 00:43:03

End at: 2018-04-11 00:43:33

Below is generated by plot.py at 2018-04-11 02:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.46 Mbit/s

95th percentile per-packet one-way delay: 139.475 ms

Loss rate: 0.00%

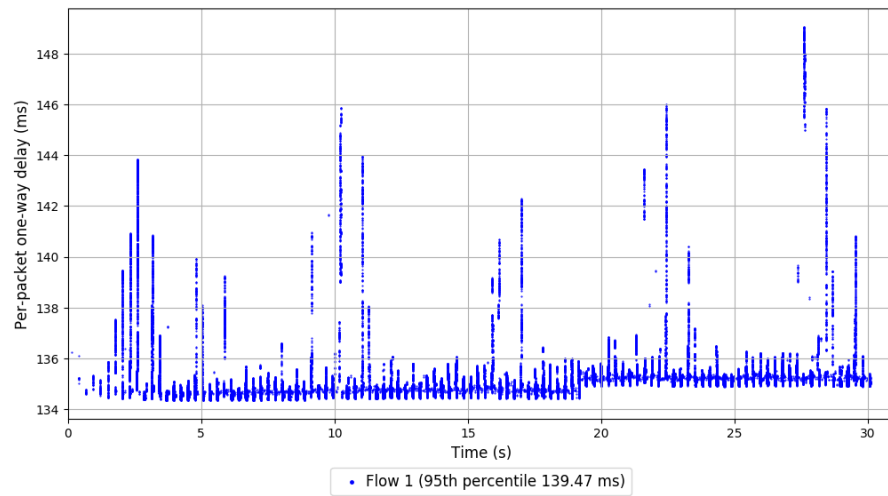
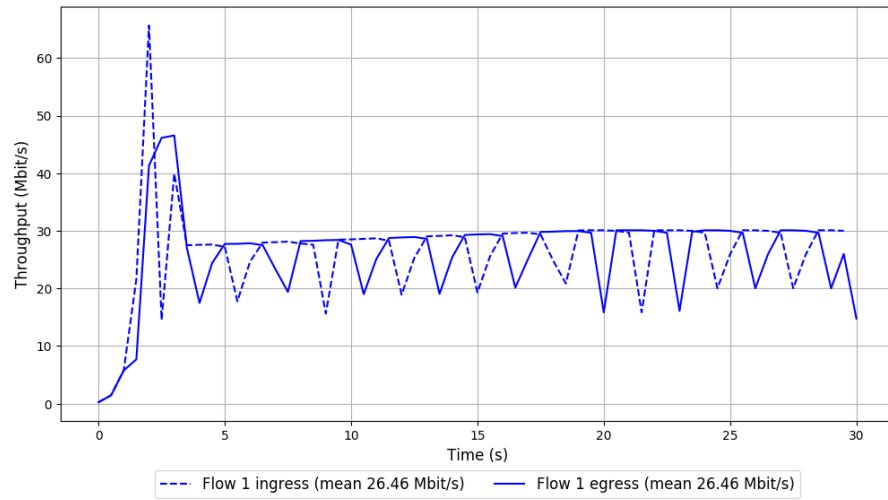
-- Flow 1:

Average throughput: 26.46 Mbit/s

95th percentile per-packet one-way delay: 139.475 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-04-10 22:14:55

End at: 2018-04-10 22:15:26

Below is generated by plot.py at 2018-04-11 02:12:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.46 Mbit/s

95th percentile per-packet one-way delay: 245.978 ms

Loss rate: 1.20%

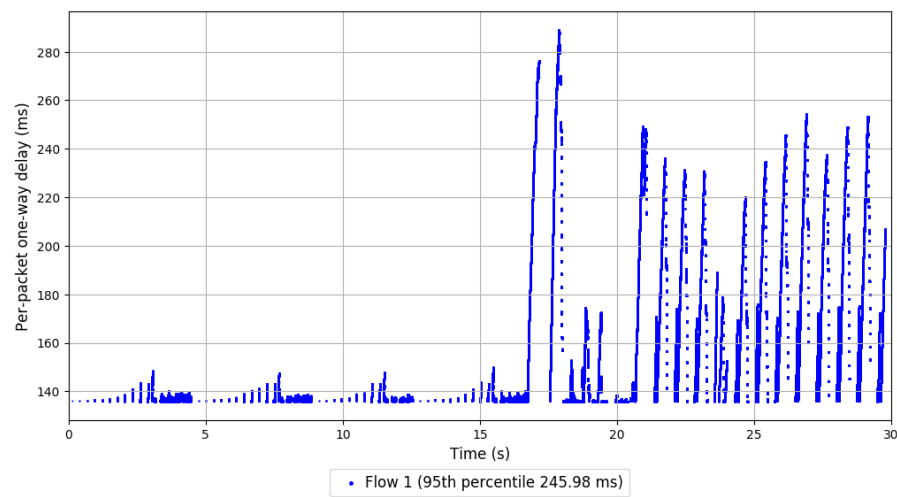
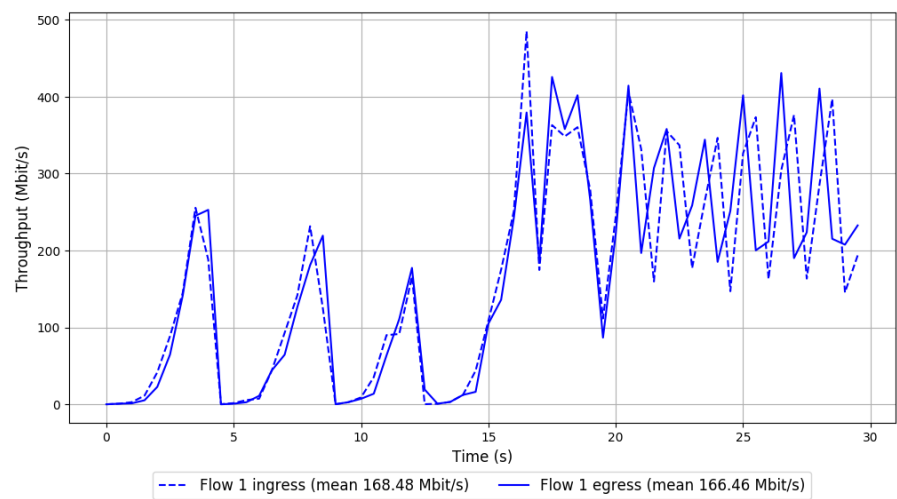
-- Flow 1:

Average throughput: 166.46 Mbit/s

95th percentile per-packet one-way delay: 245.978 ms

Loss rate: 1.20%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-04-10 22:31:04

End at: 2018-04-10 22:31:34

Below is generated by plot.py at 2018-04-11 02:13:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.53 Mbit/s

95th percentile per-packet one-way delay: 270.812 ms

Loss rate: 0.09%

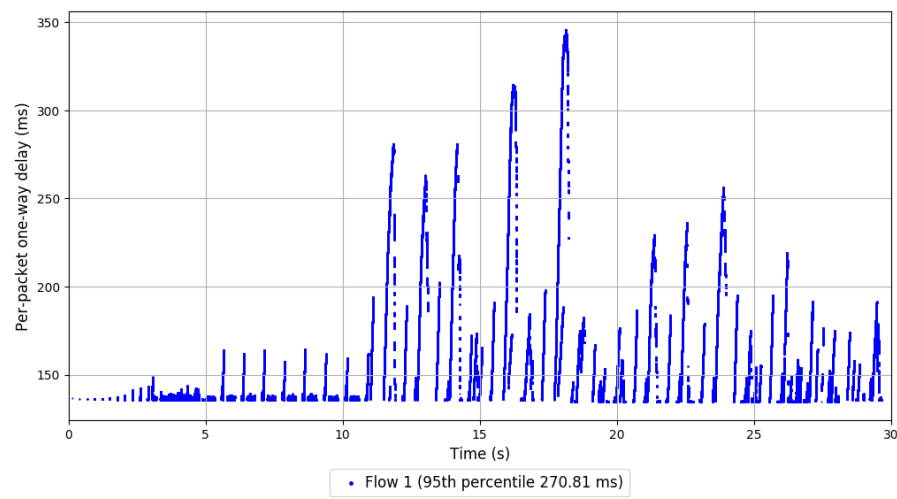
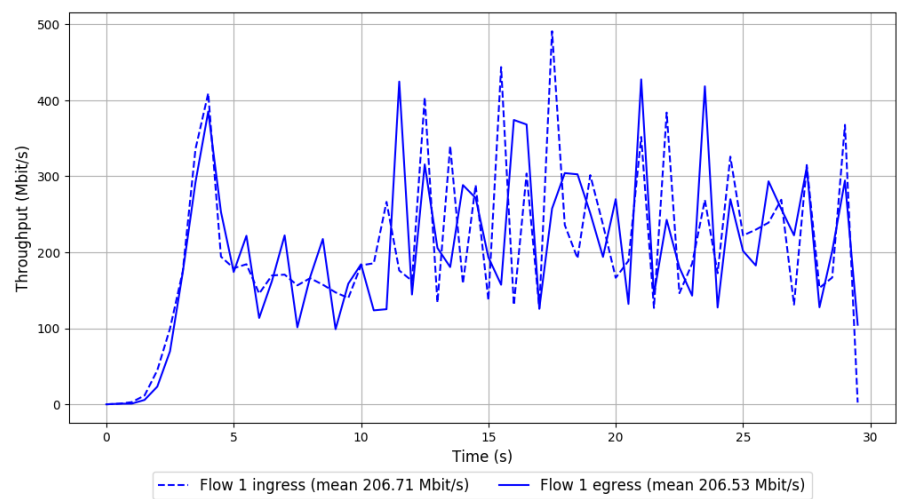
-- Flow 1:

Average throughput: 206.53 Mbit/s

95th percentile per-packet one-way delay: 270.812 ms

Loss rate: 0.09%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-10 22:46:57

End at: 2018-04-10 22:47:27

Below is generated by plot.py at 2018-04-11 02:13:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.33 Mbit/s

95th percentile per-packet one-way delay: 152.531 ms

Loss rate: 0.00%

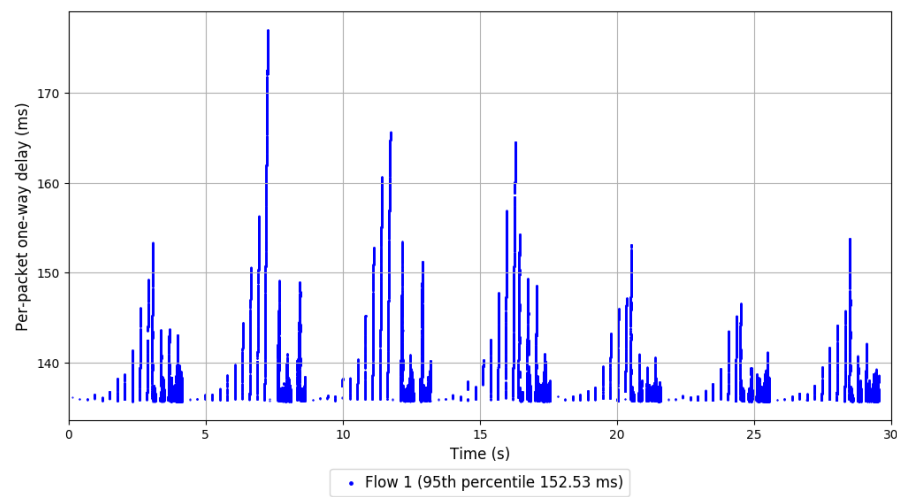
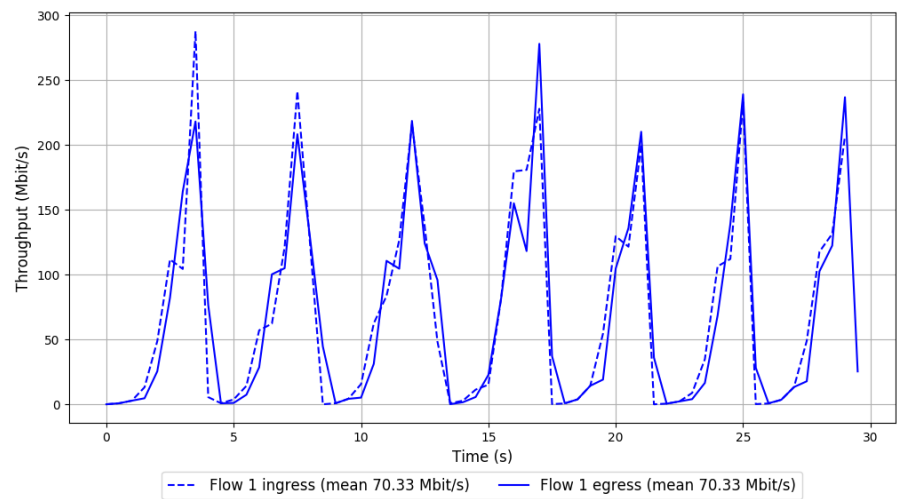
-- Flow 1:

Average throughput: 70.33 Mbit/s

95th percentile per-packet one-way delay: 152.531 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-04-10 23:02:45

End at: 2018-04-10 23:03:15

Below is generated by plot.py at 2018-04-11 02:13:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.78 Mbit/s

95th percentile per-packet one-way delay: 206.193 ms

Loss rate: 0.04%

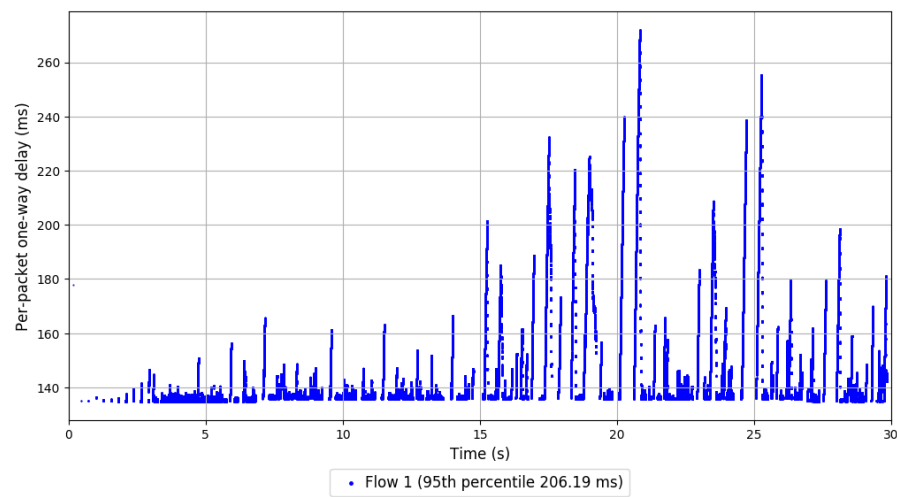
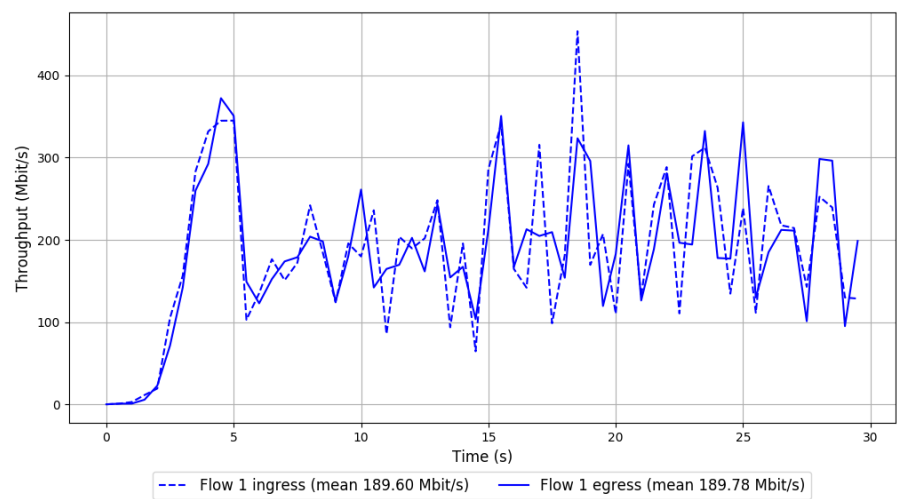
-- Flow 1:

Average throughput: 189.78 Mbit/s

95th percentile per-packet one-way delay: 206.193 ms

Loss rate: 0.04%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-10 23:19:00

End at: 2018-04-10 23:19:30

Below is generated by plot.py at 2018-04-11 02:13:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.97 Mbit/s

95th percentile per-packet one-way delay: 171.089 ms

Loss rate: 1.32%

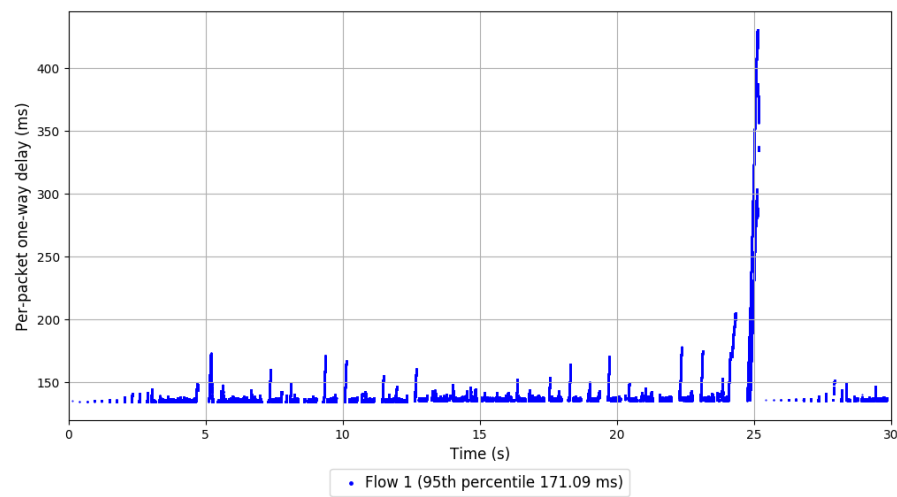
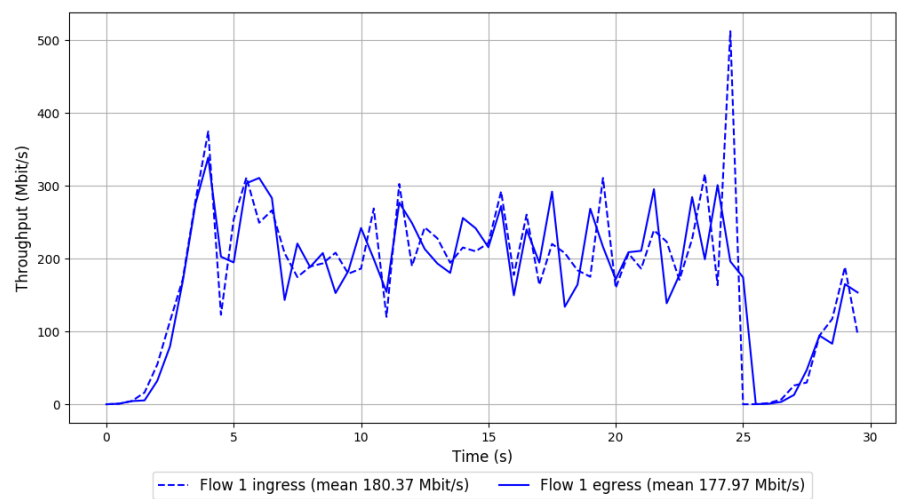
-- Flow 1:

Average throughput: 177.97 Mbit/s

95th percentile per-packet one-way delay: 171.089 ms

Loss rate: 1.32%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-10 23:34:55

End at: 2018-04-10 23:35:25

Below is generated by plot.py at 2018-04-11 02:14:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.19 Mbit/s

95th percentile per-packet one-way delay: 165.229 ms

Loss rate: 0.00%

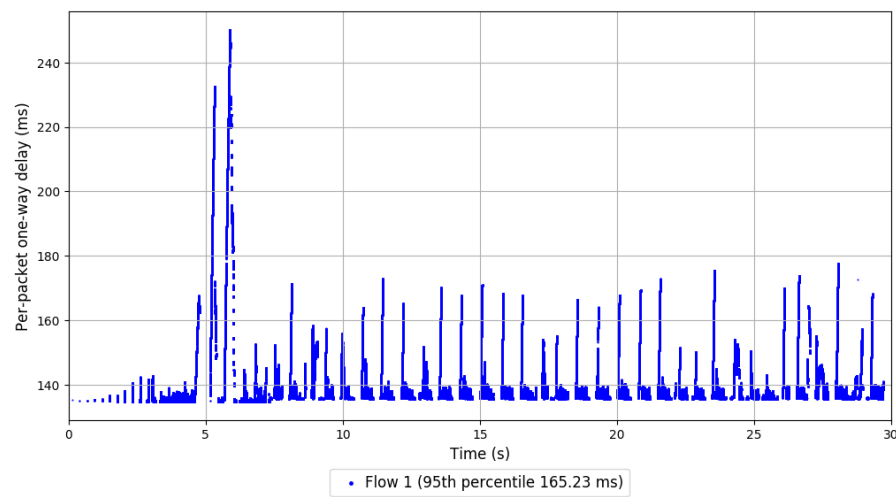
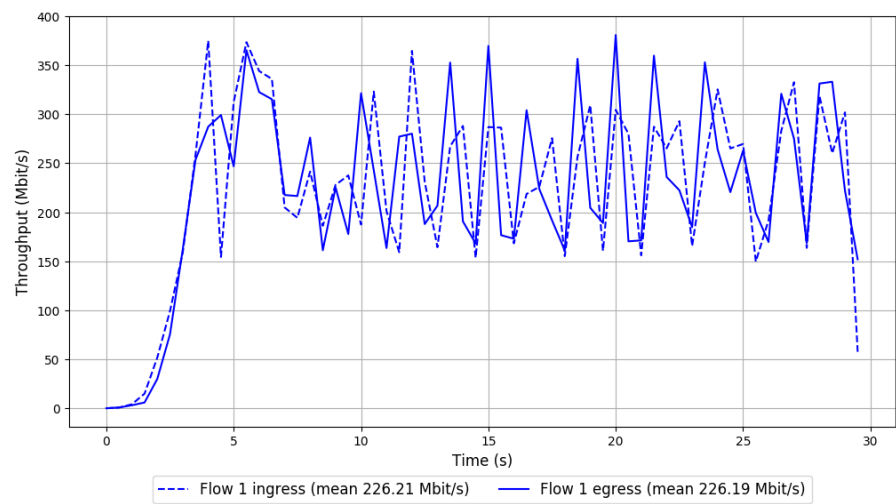
-- Flow 1:

Average throughput: 226.19 Mbit/s

95th percentile per-packet one-way delay: 165.229 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-04-10 23:51:03

End at: 2018-04-10 23:51:33

Below is generated by plot.py at 2018-04-11 02:14:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.15 Mbit/s

95th percentile per-packet one-way delay: 142.727 ms

Loss rate: 0.01%

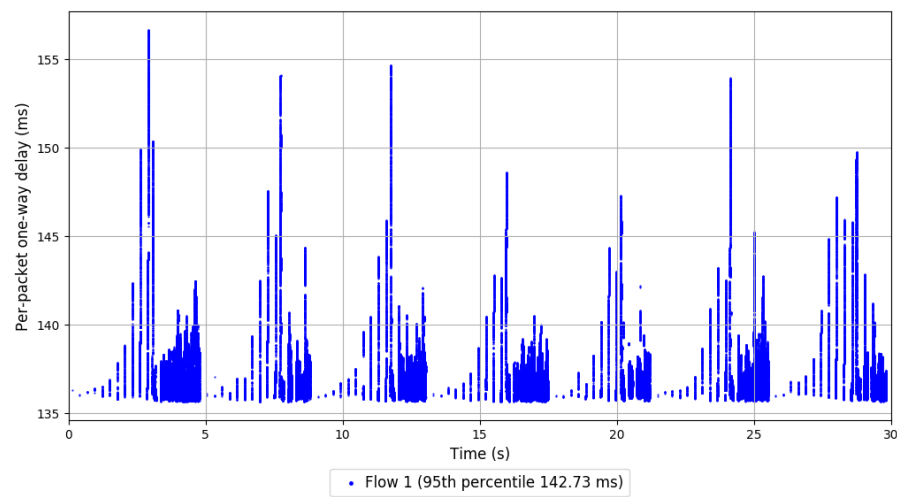
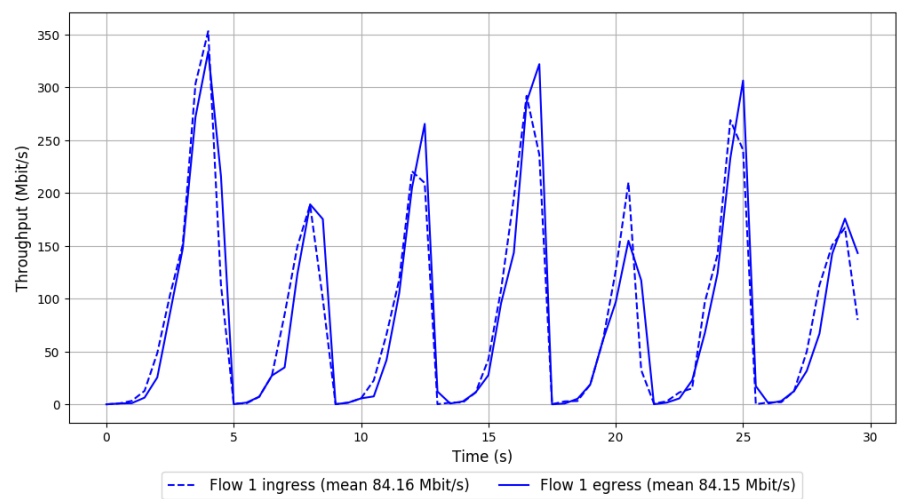
-- Flow 1:

Average throughput: 84.15 Mbit/s

95th percentile per-packet one-way delay: 142.727 ms

Loss rate: 0.01%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-04-11 00:06:43

End at: 2018-04-11 00:07:13

Below is generated by plot.py at 2018-04-11 02:14:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.12 Mbit/s

95th percentile per-packet one-way delay: 158.053 ms

Loss rate: 0.30%

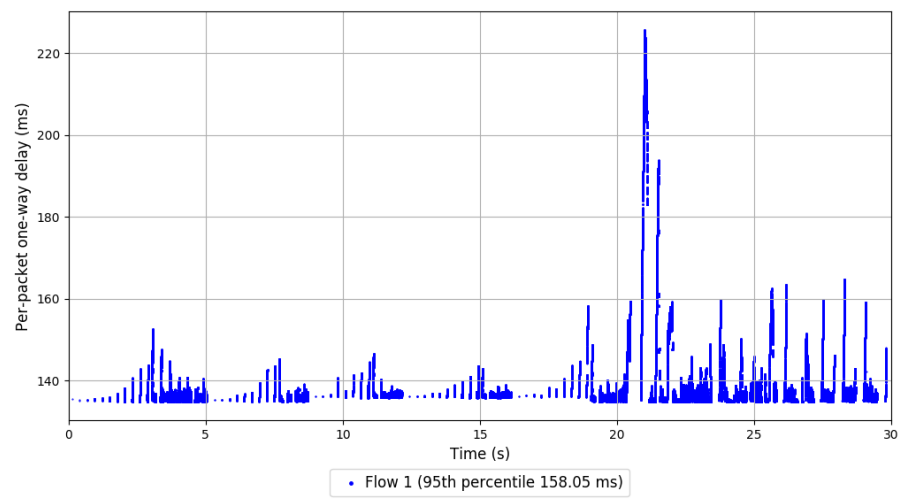
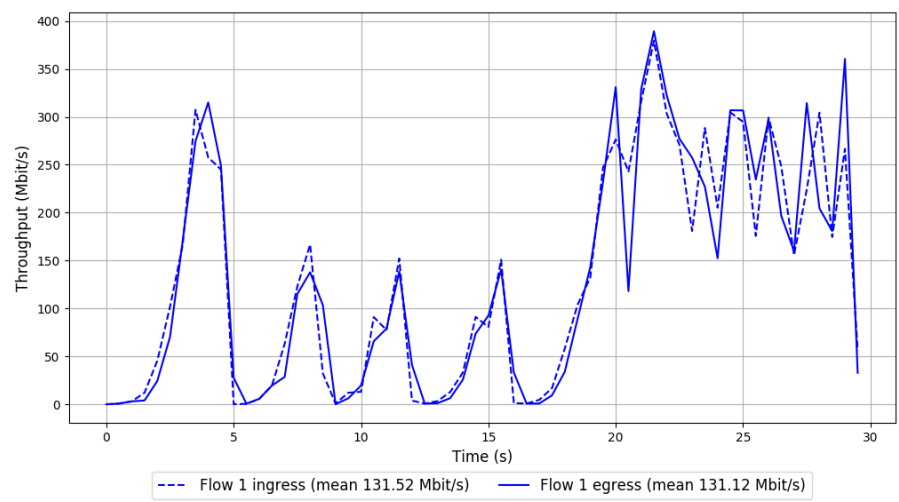
-- Flow 1:

Average throughput: 131.12 Mbit/s

95th percentile per-packet one-way delay: 158.053 ms

Loss rate: 0.30%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-04-11 00:22:29

End at: 2018-04-11 00:22:59

Below is generated by plot.py at 2018-04-11 02:14:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.06 Mbit/s

95th percentile per-packet one-way delay: 214.754 ms

Loss rate: 0.00%

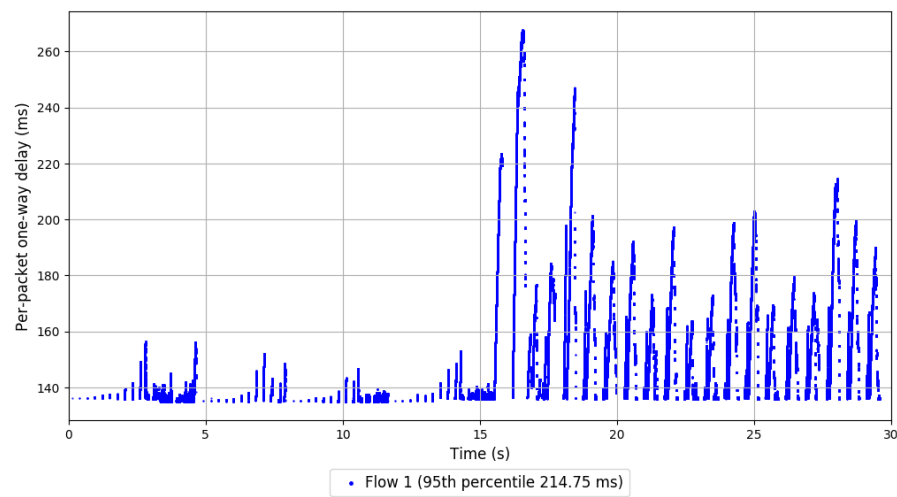
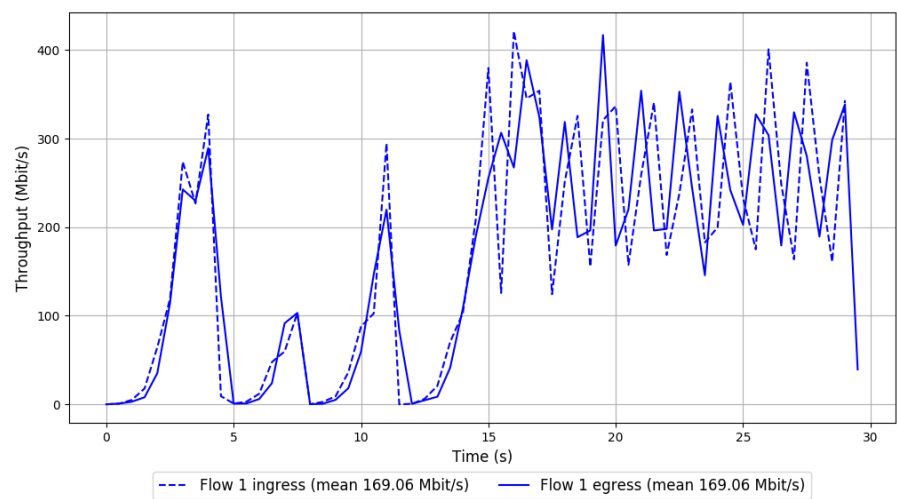
-- Flow 1:

Average throughput: 169.06 Mbit/s

95th percentile per-packet one-way delay: 214.754 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-04-11 00:38:21

End at: 2018-04-11 00:38:51

Below is generated by plot.py at 2018-04-11 02:15:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.73 Mbit/s

95th percentile per-packet one-way delay: 202.648 ms

Loss rate: 0.00%

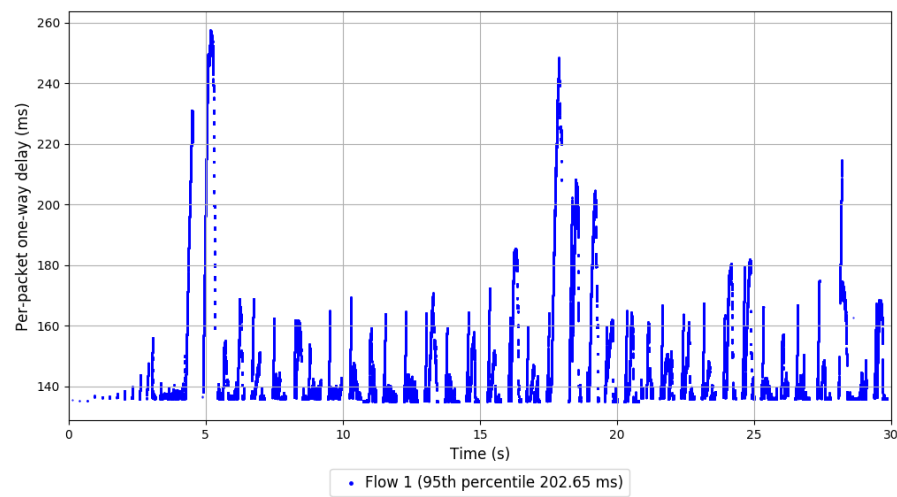
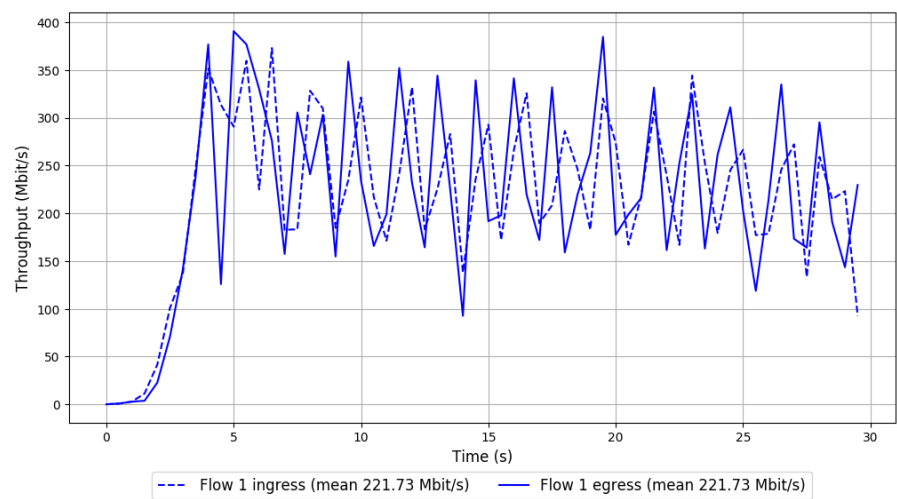
-- Flow 1:

Average throughput: 221.73 Mbit/s

95th percentile per-packet one-way delay: 202.648 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link

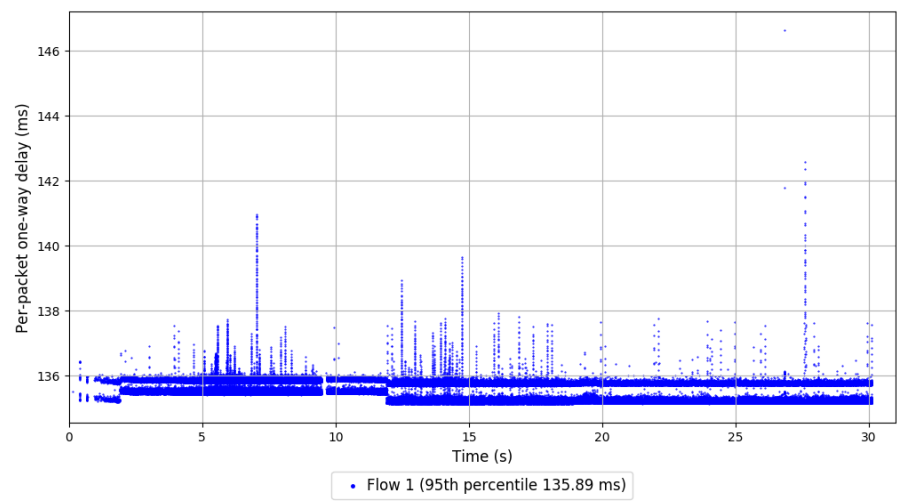
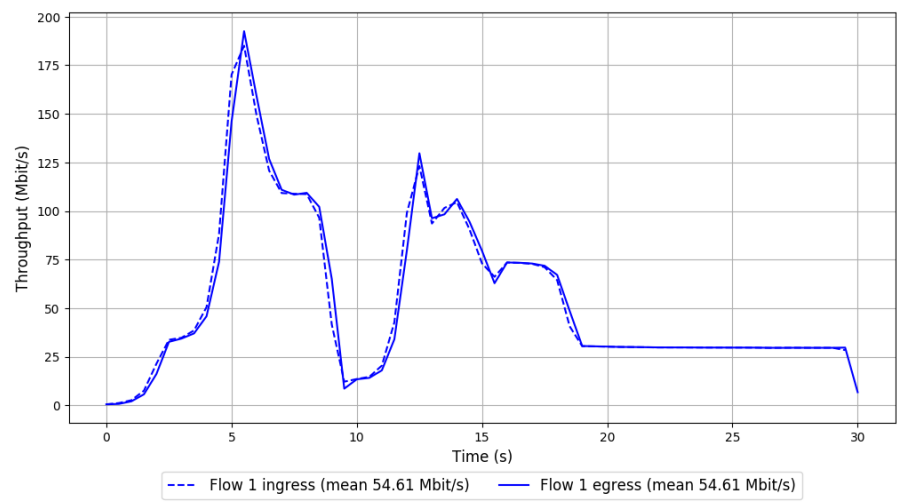


```
Run 1: Statistics of Copa

Start at: 2018-04-10 22:15:50
End at: 2018-04-10 22:16:20

# Below is generated by plot.py at 2018-04-11 02:15:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.61 Mbit/s
95th percentile per-packet one-way delay: 135.886 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.61 Mbit/s
95th percentile per-packet one-way delay: 135.886 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-04-10 22:32:02

End at: 2018-04-10 22:32:32

Below is generated by plot.py at 2018-04-11 02:15:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.21 Mbit/s

95th percentile per-packet one-way delay: 135.789 ms

Loss rate: 0.00%

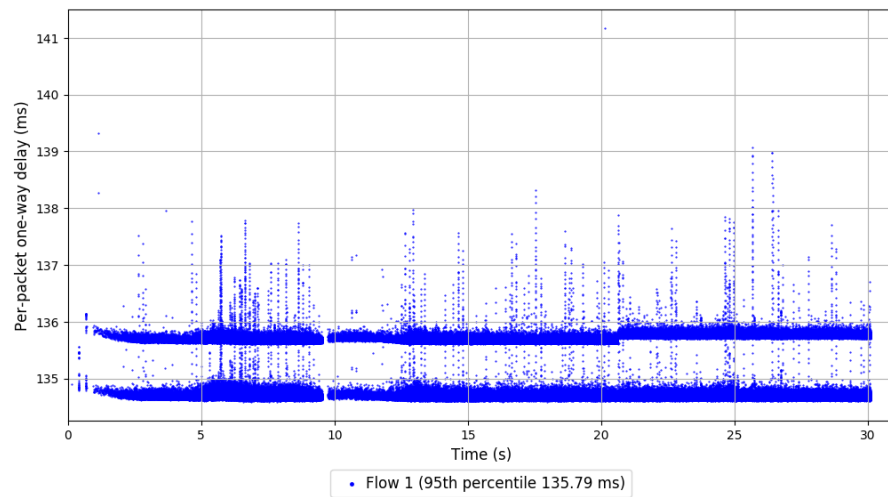
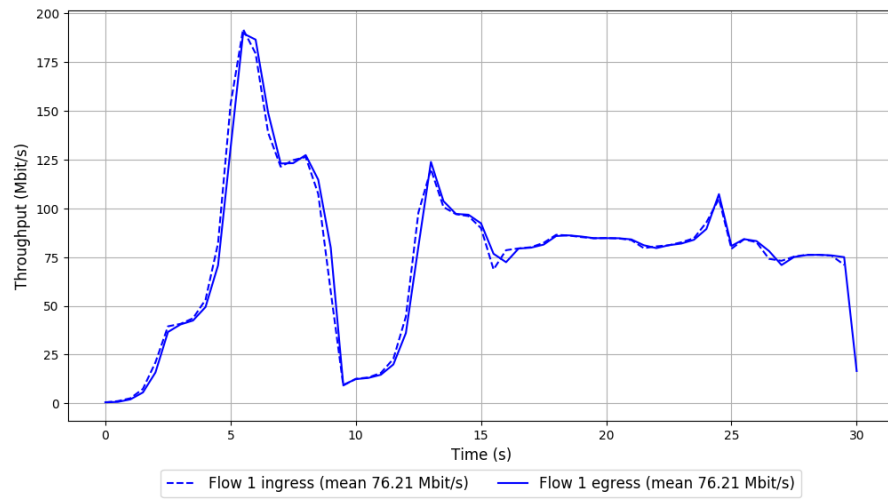
-- Flow 1:

Average throughput: 76.21 Mbit/s

95th percentile per-packet one-way delay: 135.789 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-04-10 22:47:45

End at: 2018-04-10 22:48:15

Below is generated by plot.py at 2018-04-11 02:15:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.57 Mbit/s

95th percentile per-packet one-way delay: 135.752 ms

Loss rate: 0.00%

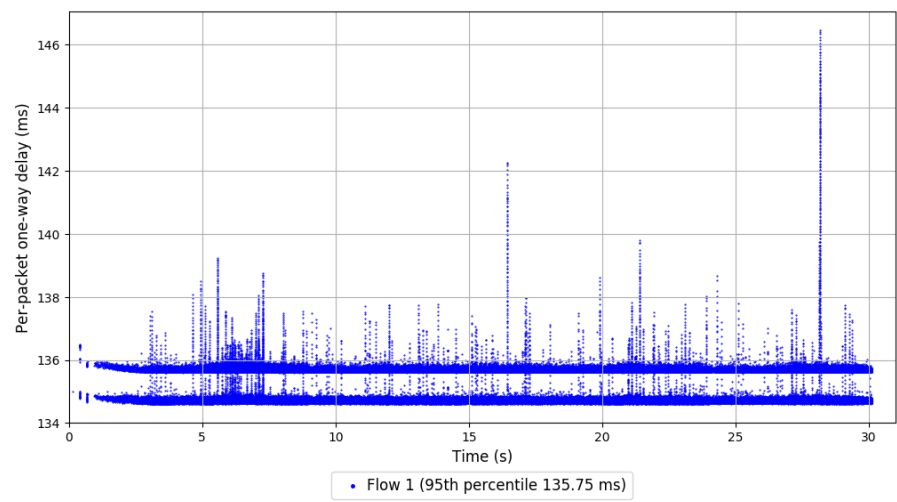
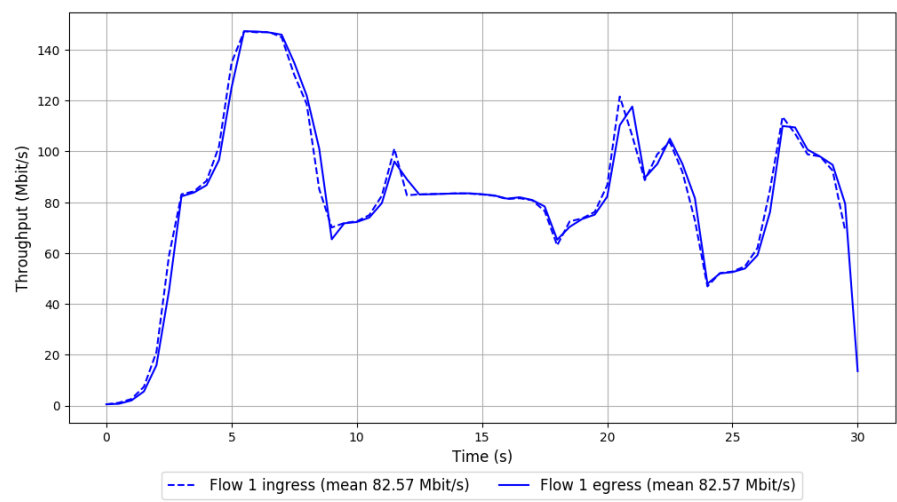
-- Flow 1:

Average throughput: 82.57 Mbit/s

95th percentile per-packet one-way delay: 135.752 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-04-10 23:03:41

End at: 2018-04-10 23:04:11

Below is generated by plot.py at 2018-04-11 02:15:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.00 Mbit/s

95th percentile per-packet one-way delay: 135.812 ms

Loss rate: 0.00%

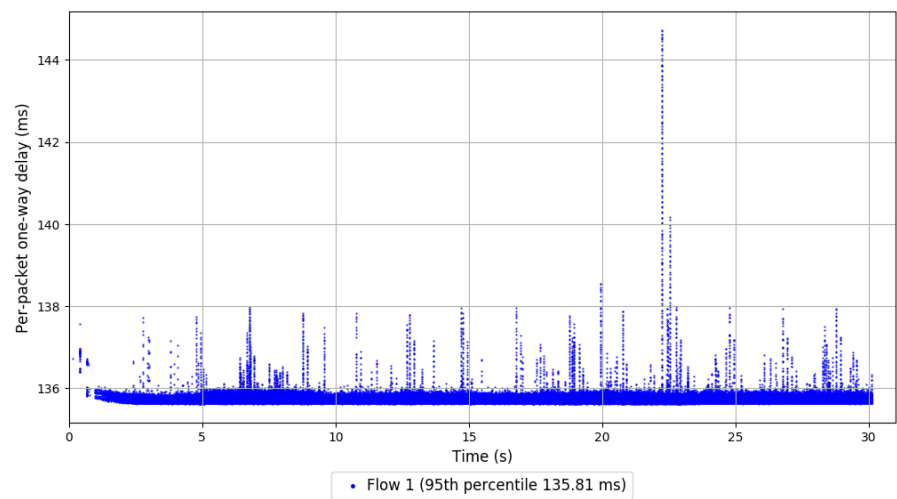
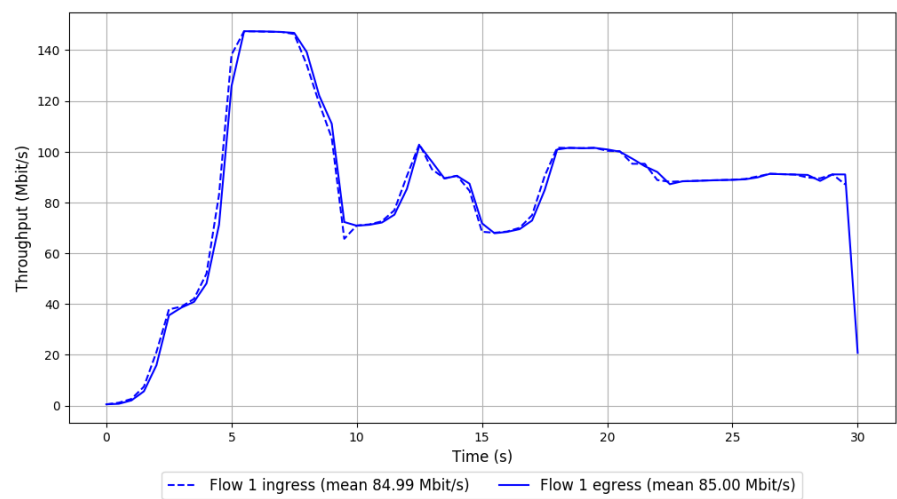
-- Flow 1:

Average throughput: 85.00 Mbit/s

95th percentile per-packet one-way delay: 135.812 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-04-10 23:19:55

End at: 2018-04-10 23:20:25

Below is generated by plot.py at 2018-04-11 02:15:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.16 Mbit/s

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

Loss rate: 0.00%

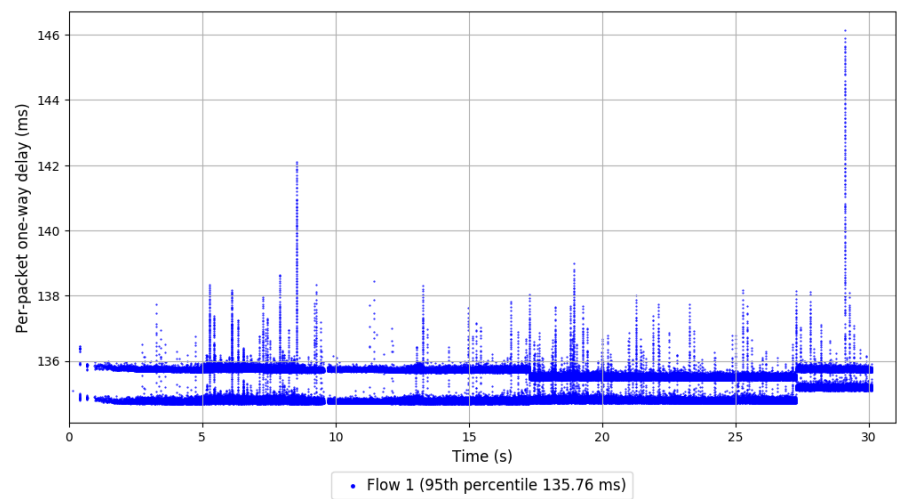
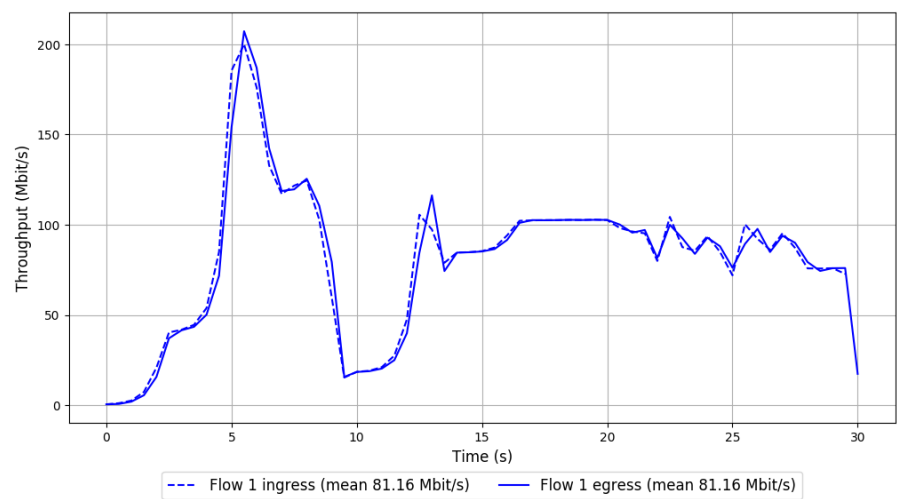
-- Flow 1:

Average throughput: 81.16 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-04-10 23:35:53

End at: 2018-04-10 23:36:23

Below is generated by plot.py at 2018-04-11 02:16:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.90 Mbit/s

95th percentile per-packet one-way delay: 136.114 ms

Loss rate: 0.00%

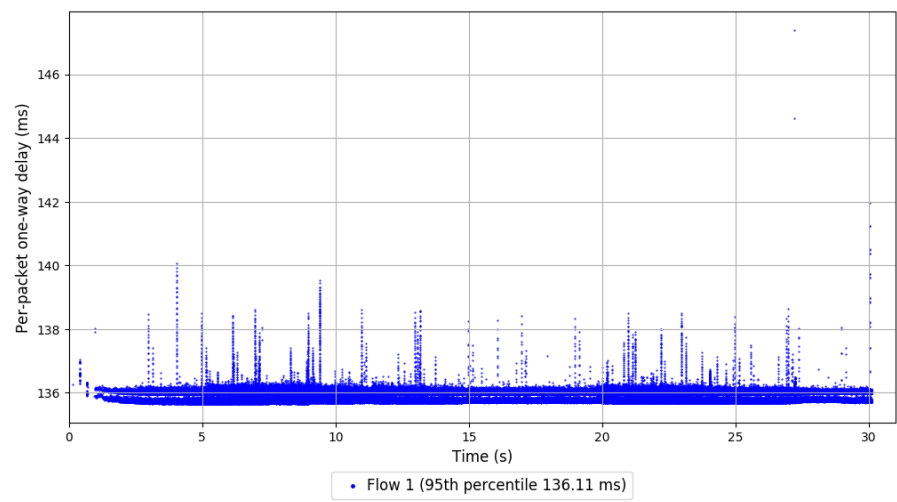
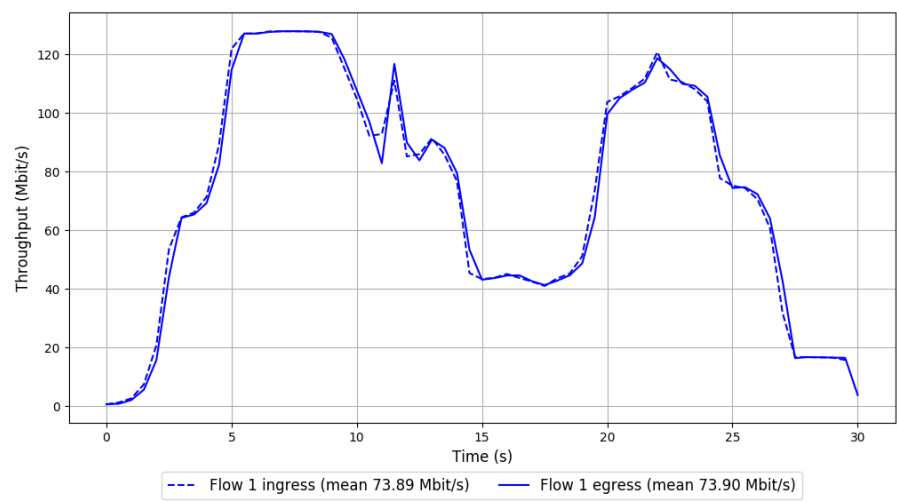
-- Flow 1:

Average throughput: 73.90 Mbit/s

95th percentile per-packet one-way delay: 136.114 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-04-10 23:51:52

End at: 2018-04-10 23:52:22

Below is generated by plot.py at 2018-04-11 02:16:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.42 Mbit/s

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

Loss rate: 0.00%

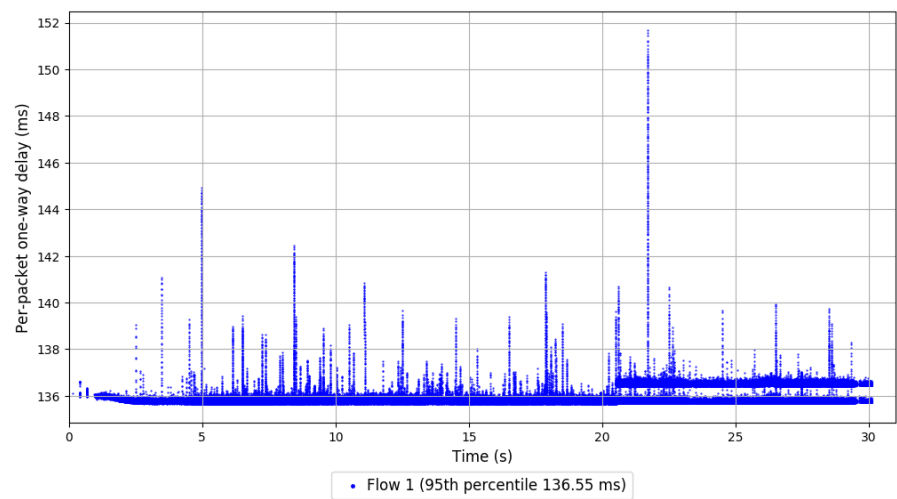
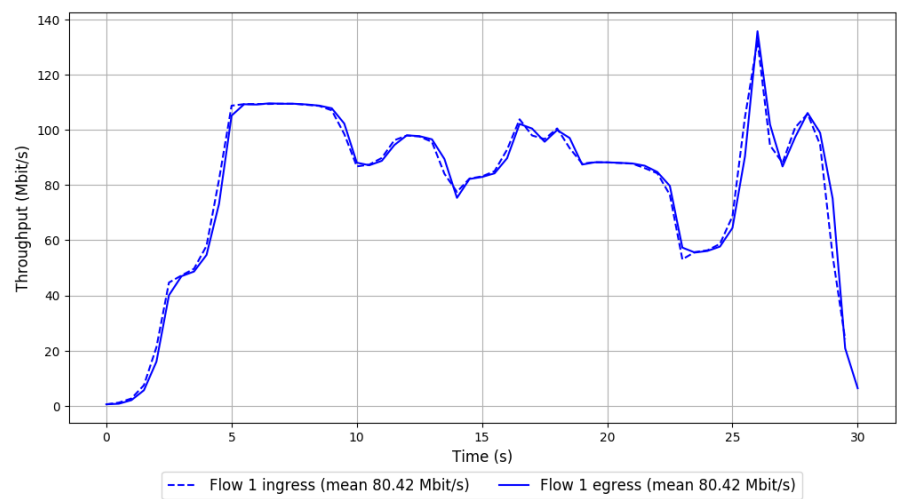
-- Flow 1:

Average throughput: 80.42 Mbit/s

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

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-11 00:07:35

End at: 2018-04-11 00:08:05

Below is generated by plot.py at 2018-04-11 02:16:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.80 Mbit/s

95th percentile per-packet one-way delay: 136.142 ms

Loss rate: 0.00%

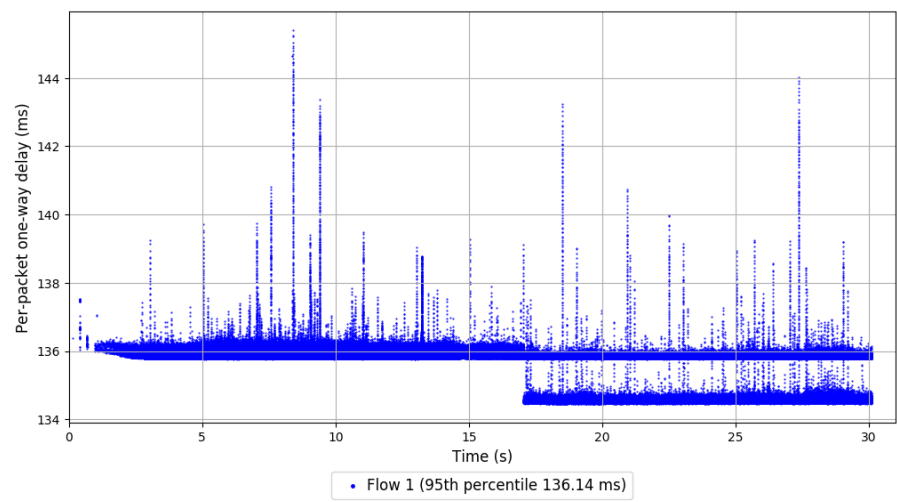
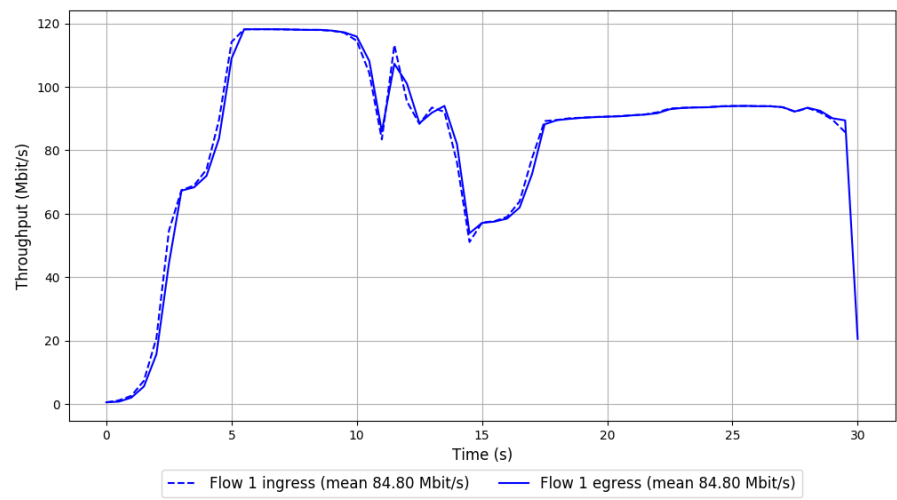
-- Flow 1:

Average throughput: 84.80 Mbit/s

95th percentile per-packet one-way delay: 136.142 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-11 00:23:23

End at: 2018-04-11 00:23:54

Below is generated by plot.py at 2018-04-11 02:17:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.61 Mbit/s

95th percentile per-packet one-way delay: 135.872 ms

Loss rate: 0.00%

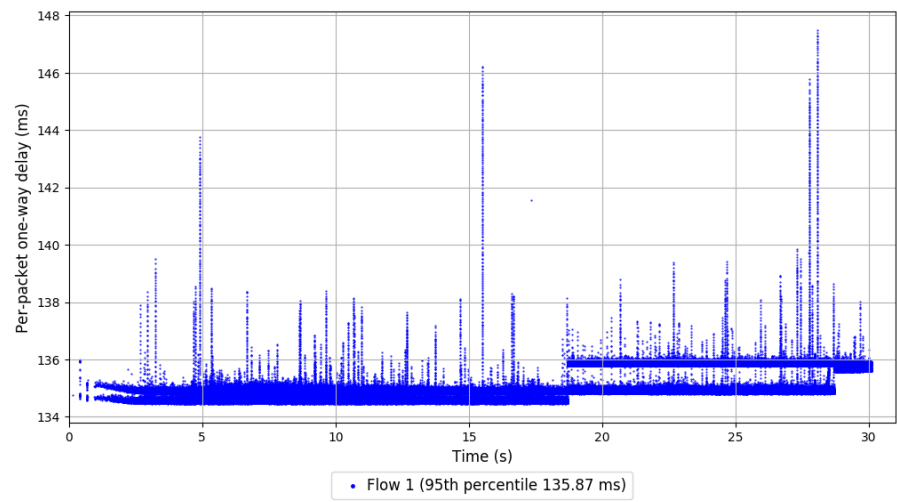
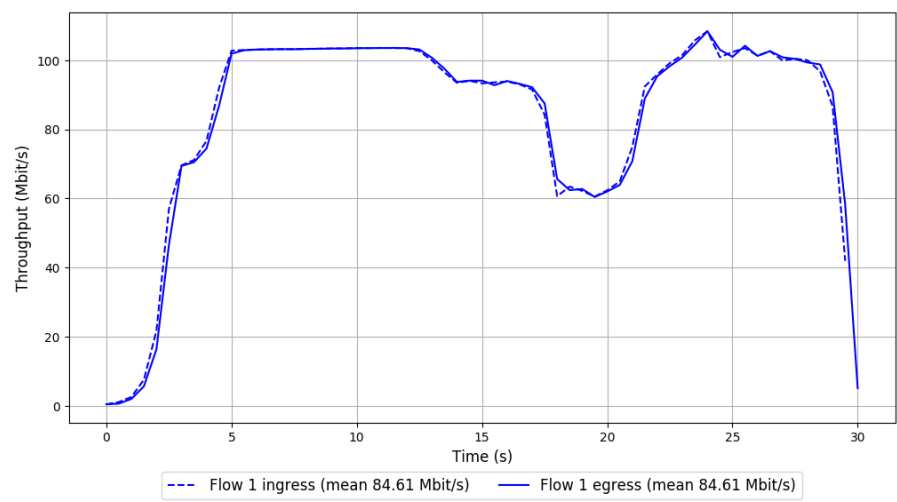
-- Flow 1:

Average throughput: 84.61 Mbit/s

95th percentile per-packet one-way delay: 135.872 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-11 00:39:20

End at: 2018-04-11 00:39:50

Below is generated by plot.py at 2018-04-11 02:17:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.37 Mbit/s

95th percentile per-packet one-way delay: 135.985 ms

Loss rate: 0.00%

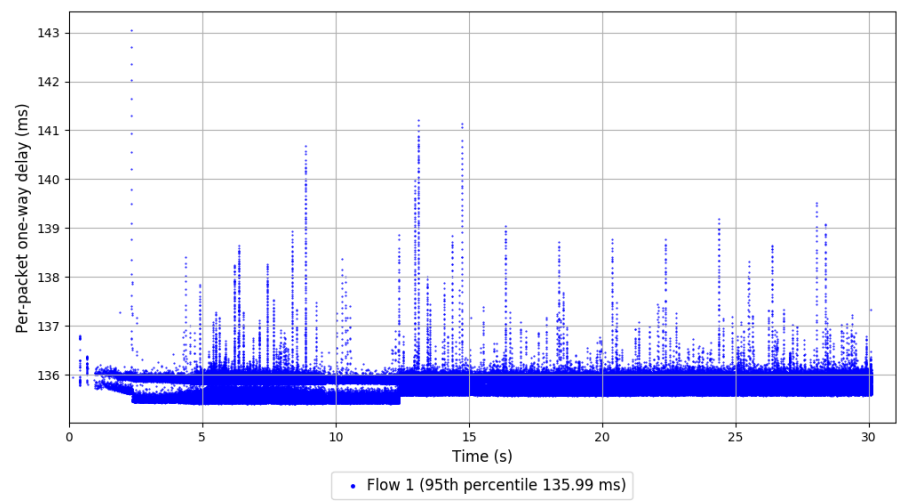
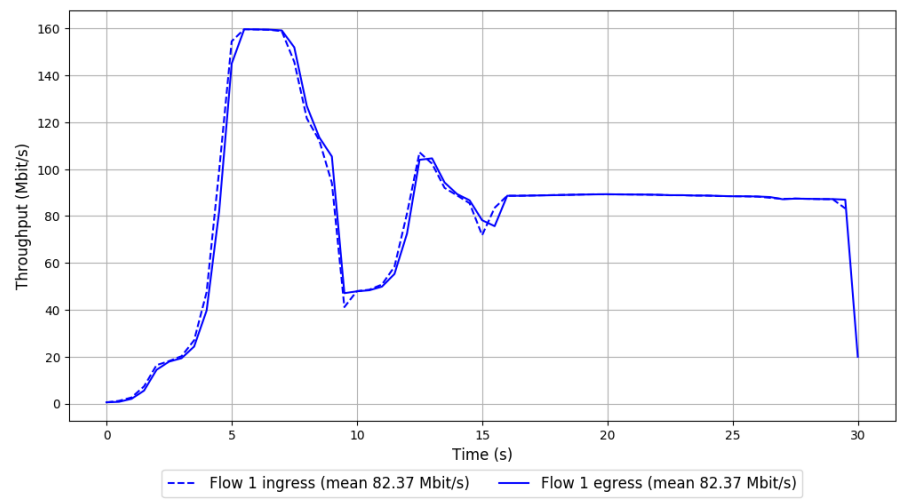
-- Flow 1:

Average throughput: 82.37 Mbit/s

95th percentile per-packet one-way delay: 135.985 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

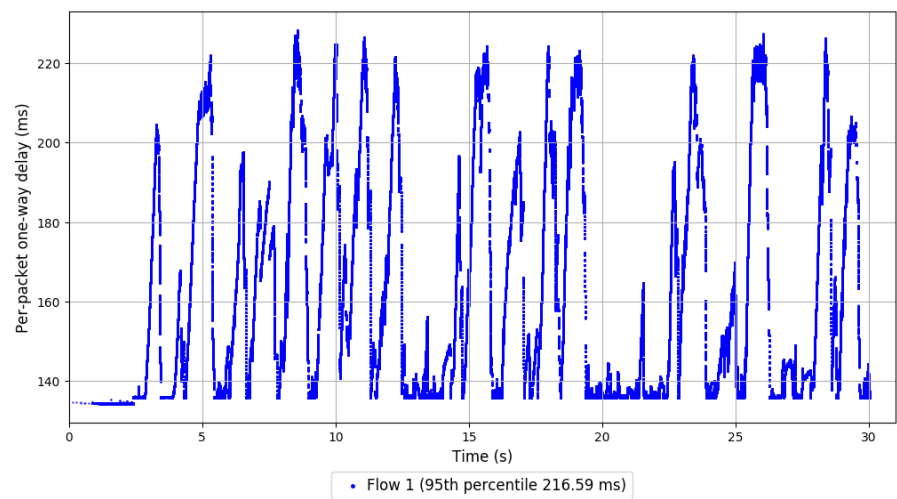
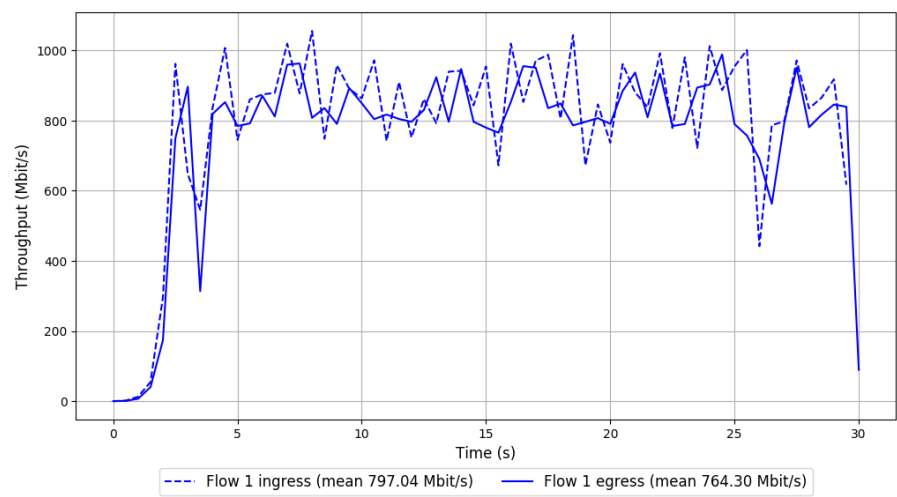


```
Run 1: Statistics of FillP

Start at: 2018-04-10 22:06:50
End at: 2018-04-10 22:07:20

# Below is generated by plot.py at 2018-04-11 02:30:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 764.30 Mbit/s
95th percentile per-packet one-way delay: 216.590 ms
Loss rate: 4.10%
-- Flow 1:
Average throughput: 764.30 Mbit/s
95th percentile per-packet one-way delay: 216.590 ms
Loss rate: 4.10%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-10 22:22:51

End at: 2018-04-10 22:23:21

Below is generated by plot.py at 2018-04-11 02:30:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 797.54 Mbit/s

95th percentile per-packet one-way delay: 207.033 ms

Loss rate: 2.08%

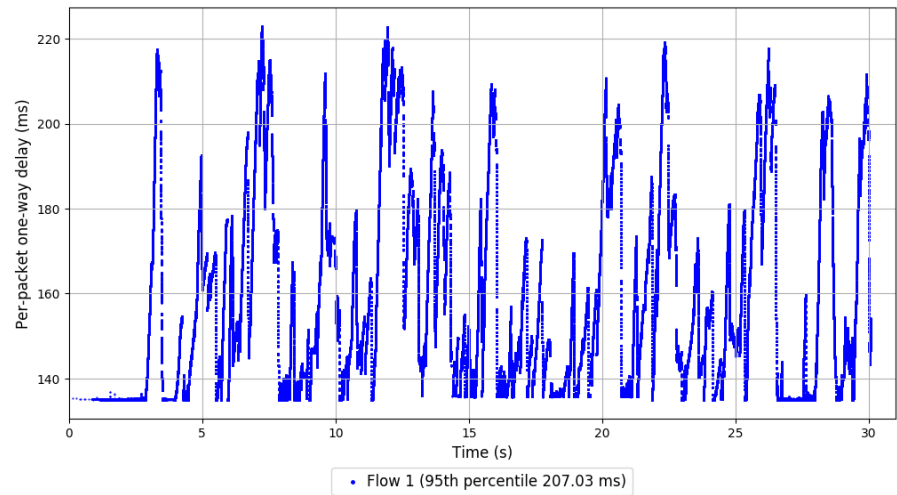
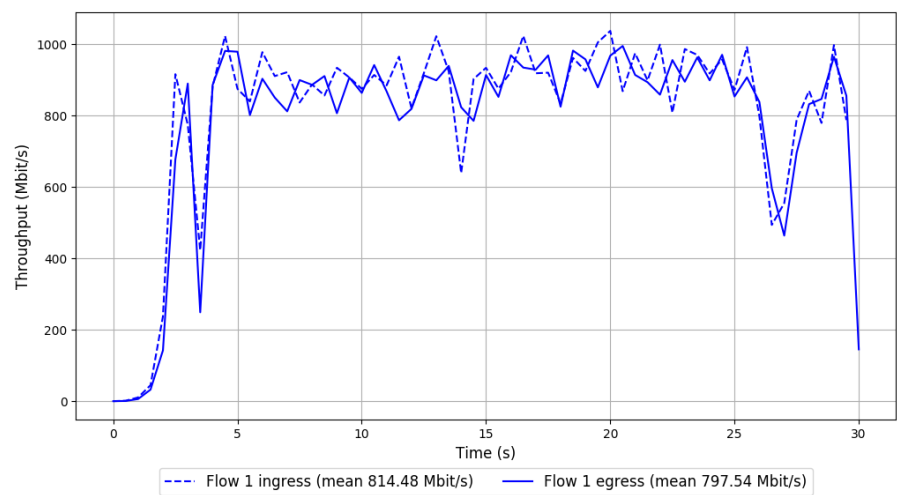
-- Flow 1:

Average throughput: 797.54 Mbit/s

95th percentile per-packet one-way delay: 207.033 ms

Loss rate: 2.08%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-04-10 22:39:02

End at: 2018-04-10 22:39:32

Below is generated by plot.py at 2018-04-11 02:30:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 768.69 Mbit/s

95th percentile per-packet one-way delay: 210.077 ms

Loss rate: 2.57%

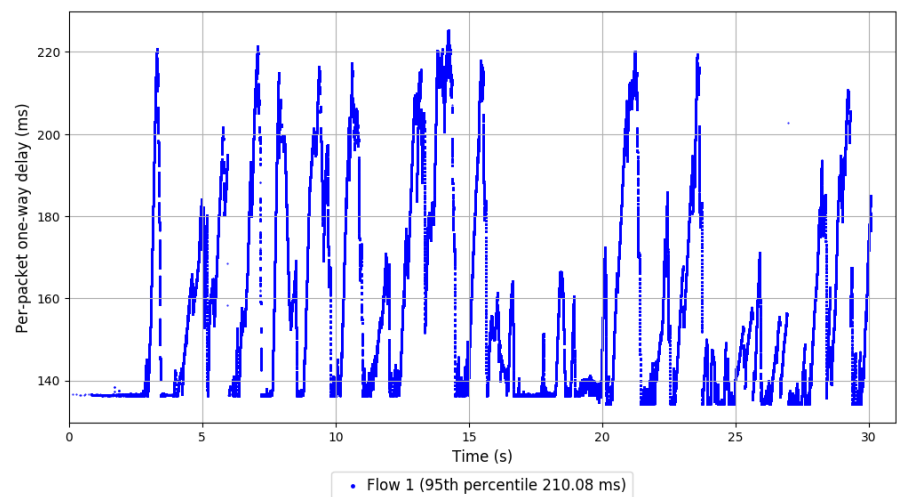
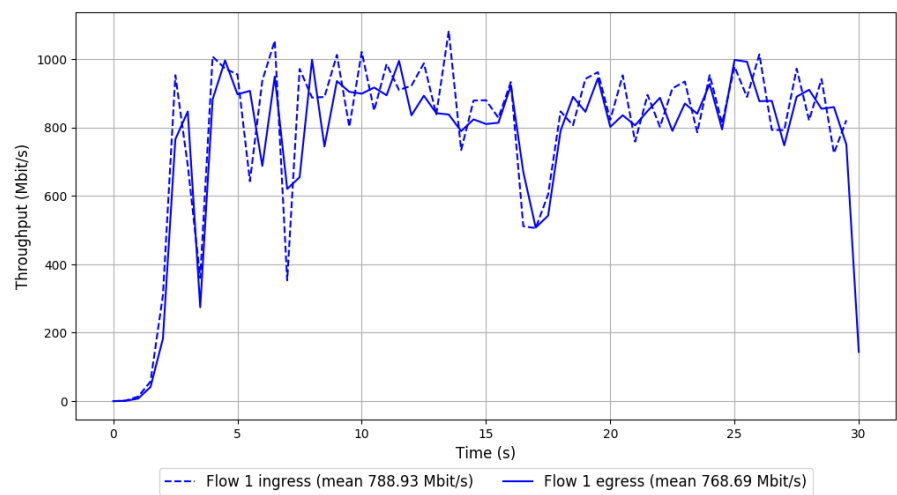
-- Flow 1:

Average throughput: 768.69 Mbit/s

95th percentile per-packet one-way delay: 210.077 ms

Loss rate: 2.57%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-04-10 22:54:54

End at: 2018-04-10 22:55:24

Below is generated by plot.py at 2018-04-11 02:30:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 776.75 Mbit/s

95th percentile per-packet one-way delay: 213.121 ms

Loss rate: 3.69%

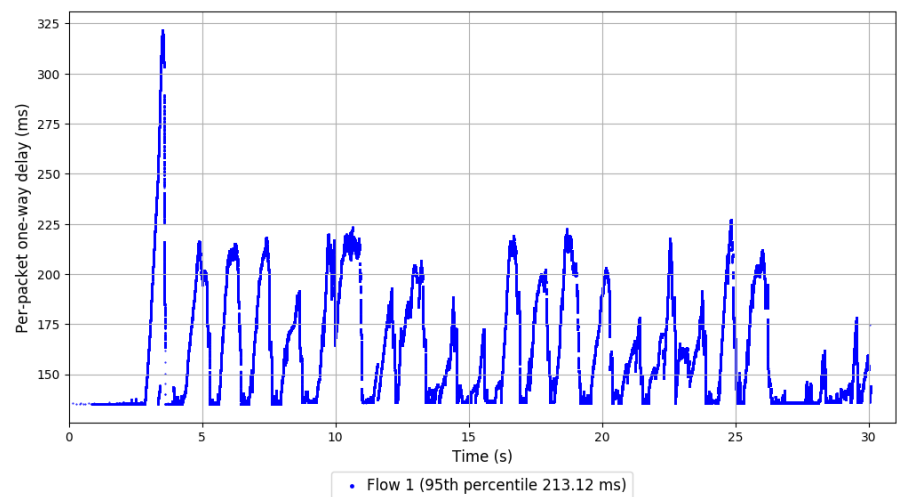
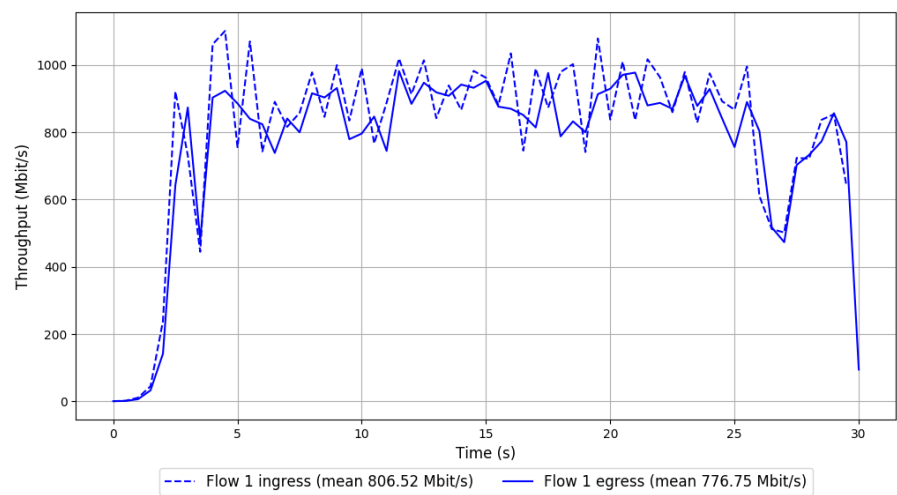
-- Flow 1:

Average throughput: 776.75 Mbit/s

95th percentile per-packet one-way delay: 213.121 ms

Loss rate: 3.69%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-10 23:10:48

End at: 2018-04-10 23:11:18

Below is generated by plot.py at 2018-04-11 02:31:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 786.91 Mbit/s

95th percentile per-packet one-way delay: 226.842 ms

Loss rate: 5.36%

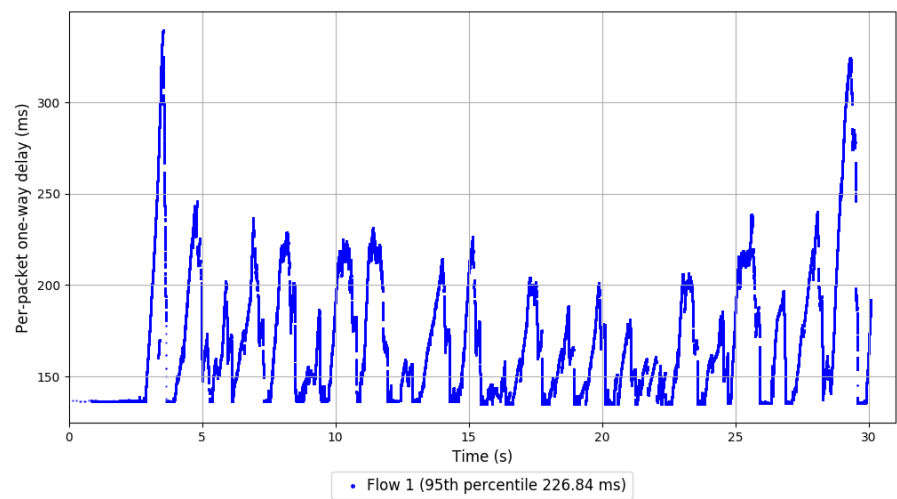
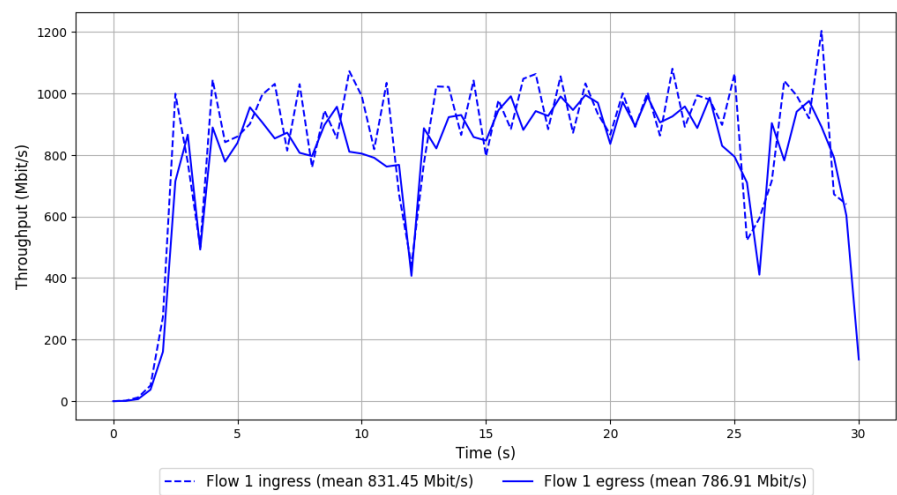
-- Flow 1:

Average throughput: 786.91 Mbit/s

95th percentile per-packet one-way delay: 226.842 ms

Loss rate: 5.36%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-04-10 23:27:02

End at: 2018-04-10 23:27:32

Below is generated by plot.py at 2018-04-11 02:31:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 773.10 Mbit/s

95th percentile per-packet one-way delay: 212.476 ms

Loss rate: 3.44%

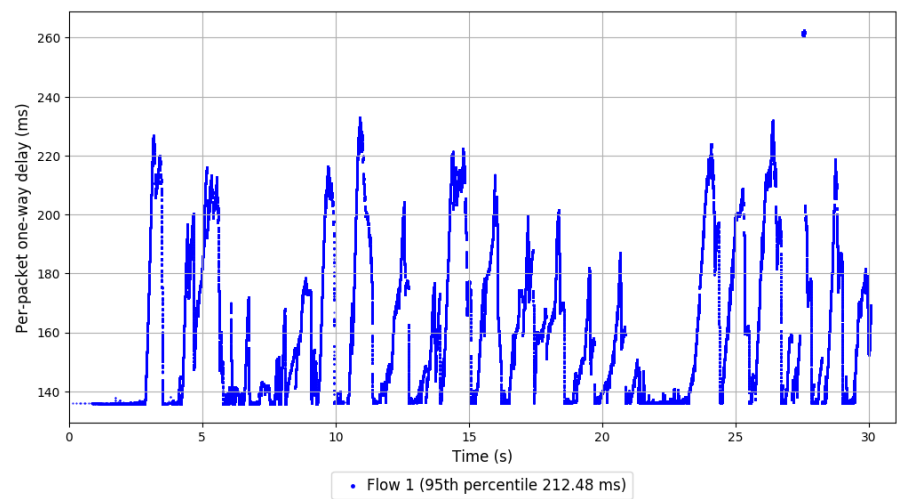
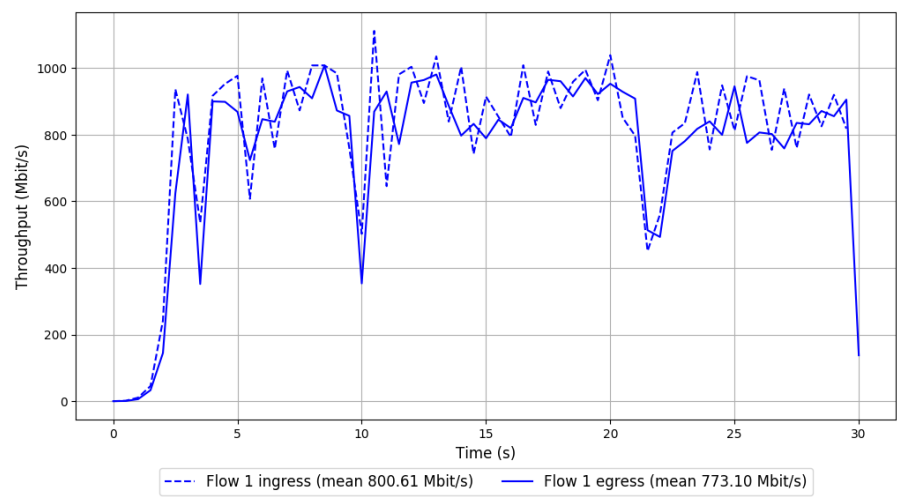
-- Flow 1:

Average throughput: 773.10 Mbit/s

95th percentile per-packet one-way delay: 212.476 ms

Loss rate: 3.44%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-04-10 23:43:01

End at: 2018-04-10 23:43:31

Below is generated by plot.py at 2018-04-11 02:32:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 761.79 Mbit/s

95th percentile per-packet one-way delay: 213.432 ms

Loss rate: 3.59%

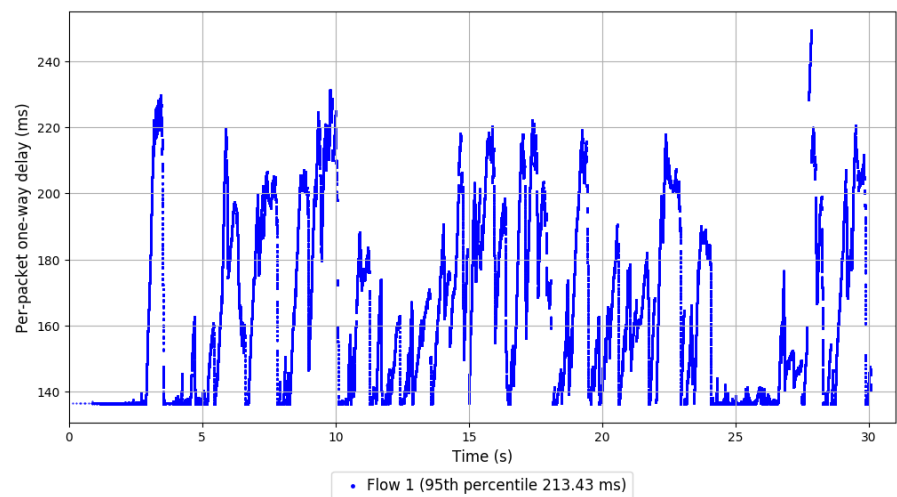
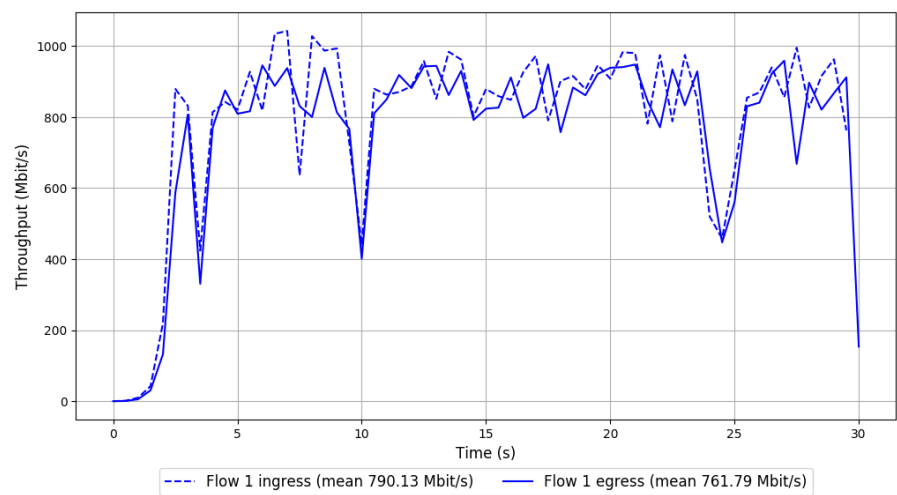
-- Flow 1:

Average throughput: 761.79 Mbit/s

95th percentile per-packet one-way delay: 213.432 ms

Loss rate: 3.59%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-10 23:58:38

End at: 2018-04-10 23:59:08

Below is generated by plot.py at 2018-04-11 02:32:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 747.23 Mbit/s

95th percentile per-packet one-way delay: 218.623 ms

Loss rate: 6.35%

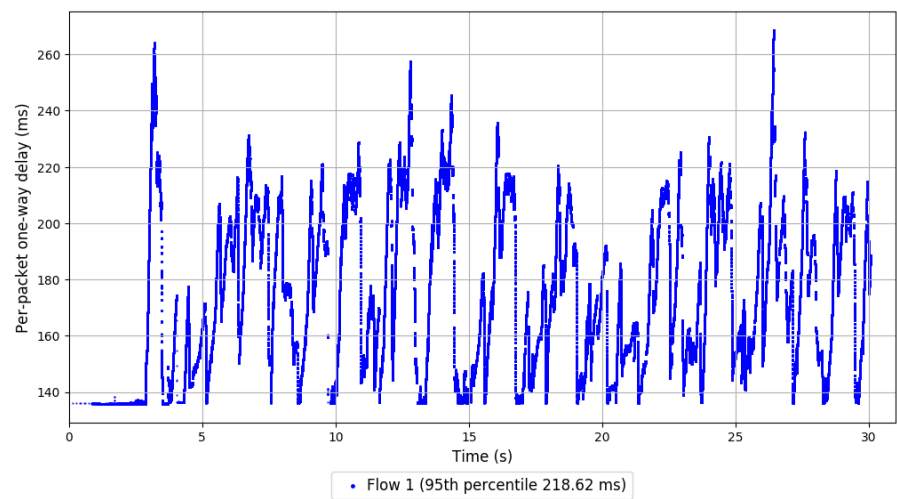
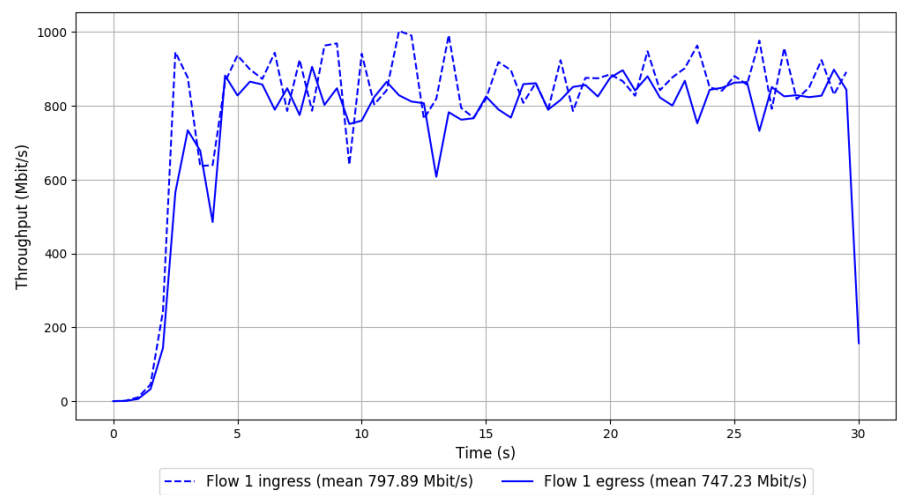
-- Flow 1:

Average throughput: 747.23 Mbit/s

95th percentile per-packet one-way delay: 218.623 ms

Loss rate: 6.35%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-11 00:14:43

End at: 2018-04-11 00:15:13

Below is generated by plot.py at 2018-04-11 02:43:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 747.71 Mbit/s

95th percentile per-packet one-way delay: 221.377 ms

Loss rate: 5.33%

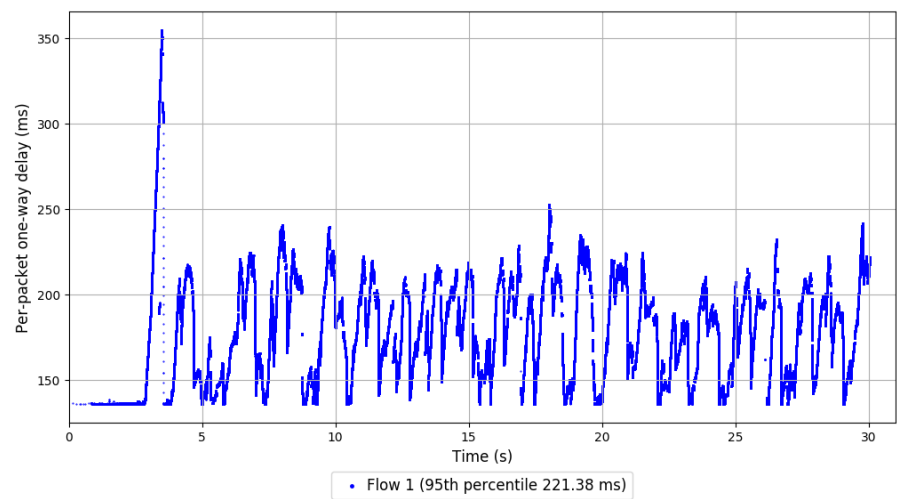
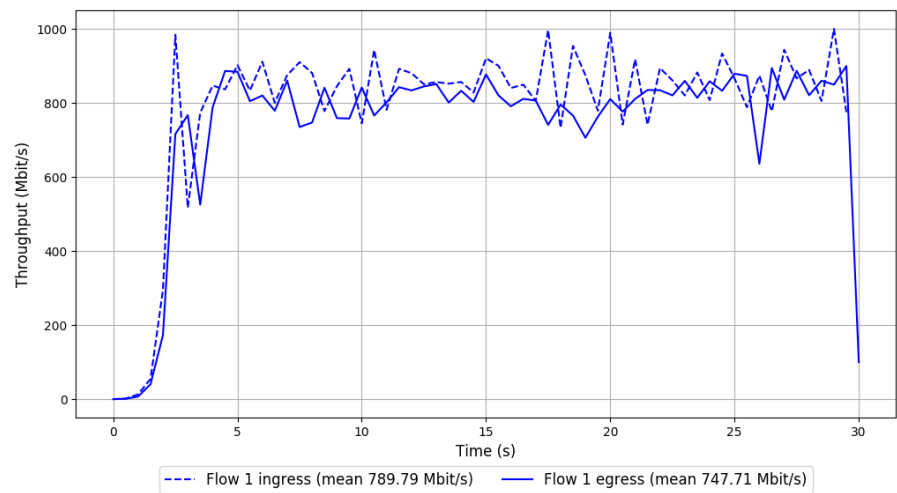
-- Flow 1:

Average throughput: 747.71 Mbit/s

95th percentile per-packet one-way delay: 221.377 ms

Loss rate: 5.33%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-11 00:30:28

End at: 2018-04-11 00:30:58

Below is generated by plot.py at 2018-04-11 02:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 793.38 Mbit/s

95th percentile per-packet one-way delay: 212.293 ms

Loss rate: 5.14%

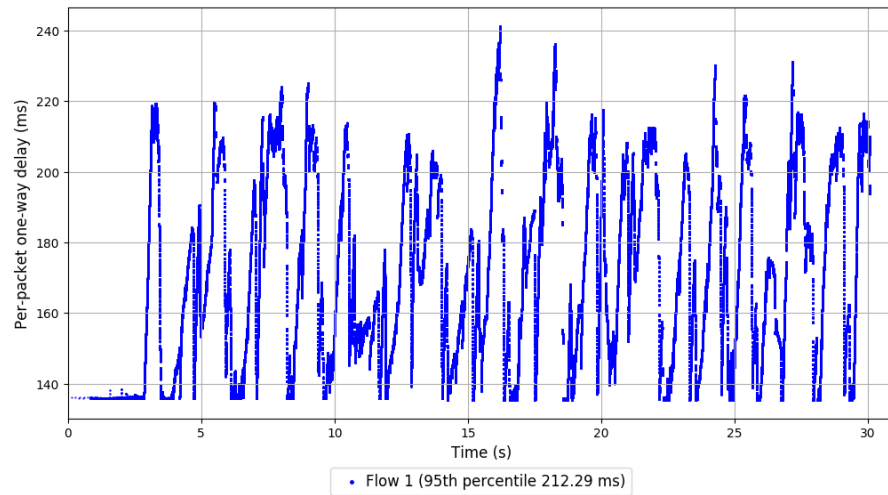
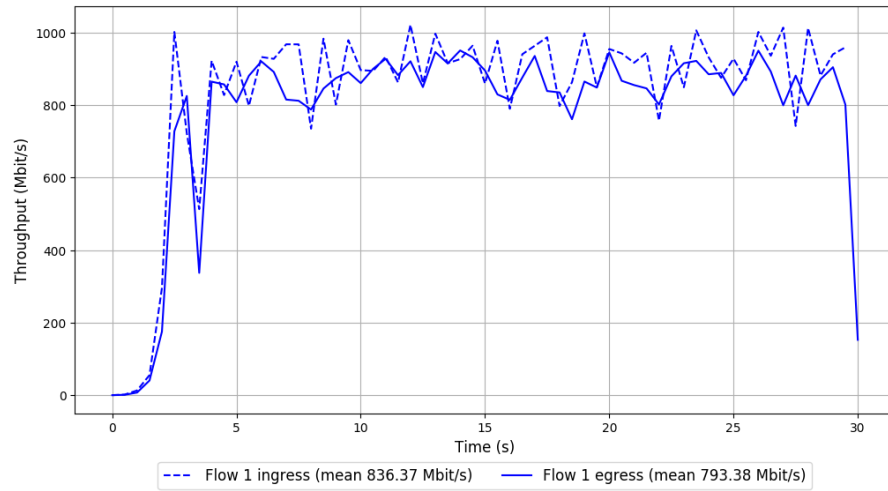
-- Flow 1:

Average throughput: 793.38 Mbit/s

95th percentile per-packet one-way delay: 212.293 ms

Loss rate: 5.14%

Run 10: Report of FillP — Data Link

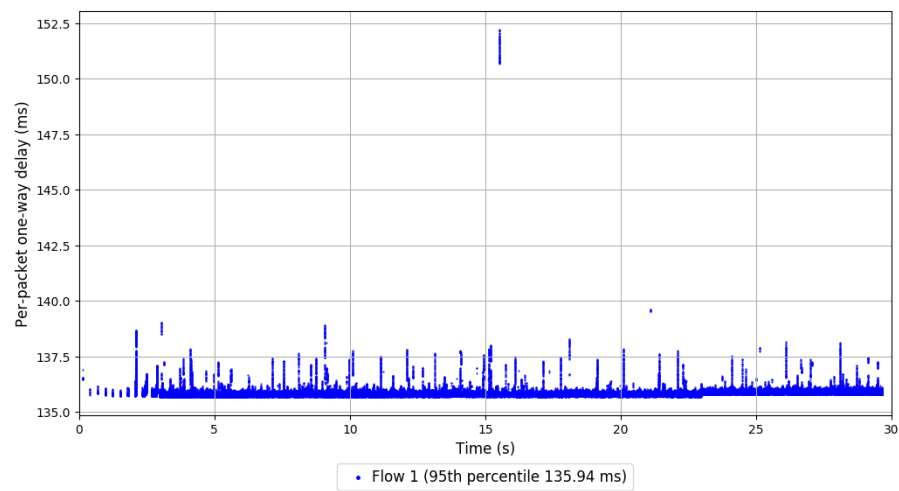
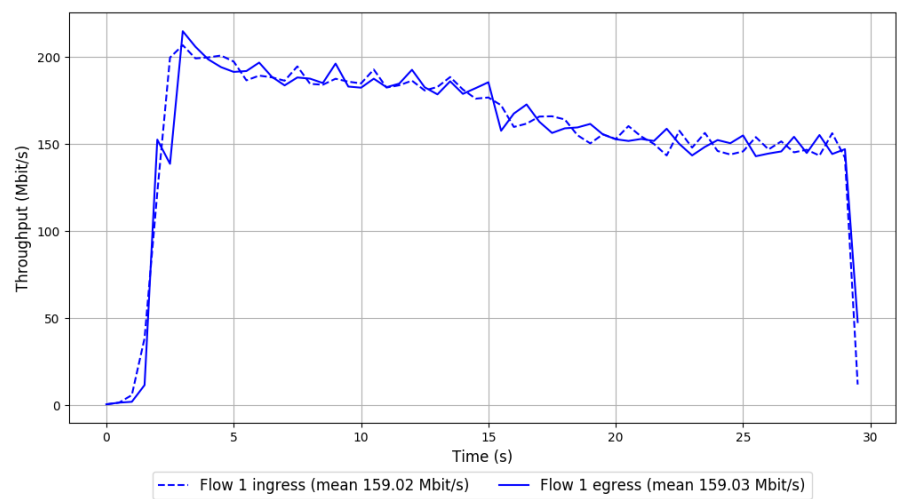


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-10 22:10:59
End at: 2018-04-10 22:11:29

# Below is generated by plot.py at 2018-04-11 02:44:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 159.03 Mbit/s
95th percentile per-packet one-way delay: 135.945 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 159.03 Mbit/s
95th percentile per-packet one-way delay: 135.945 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-1-32 — Data Link



Run 2: Statistics of Indigo-1-32

Start at: 2018-04-10 22:27:05

End at: 2018-04-10 22:27:36

Below is generated by plot.py at 2018-04-11 02:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 163.87 Mbit/s

95th percentile per-packet one-way delay: 135.886 ms

Loss rate: 0.00%

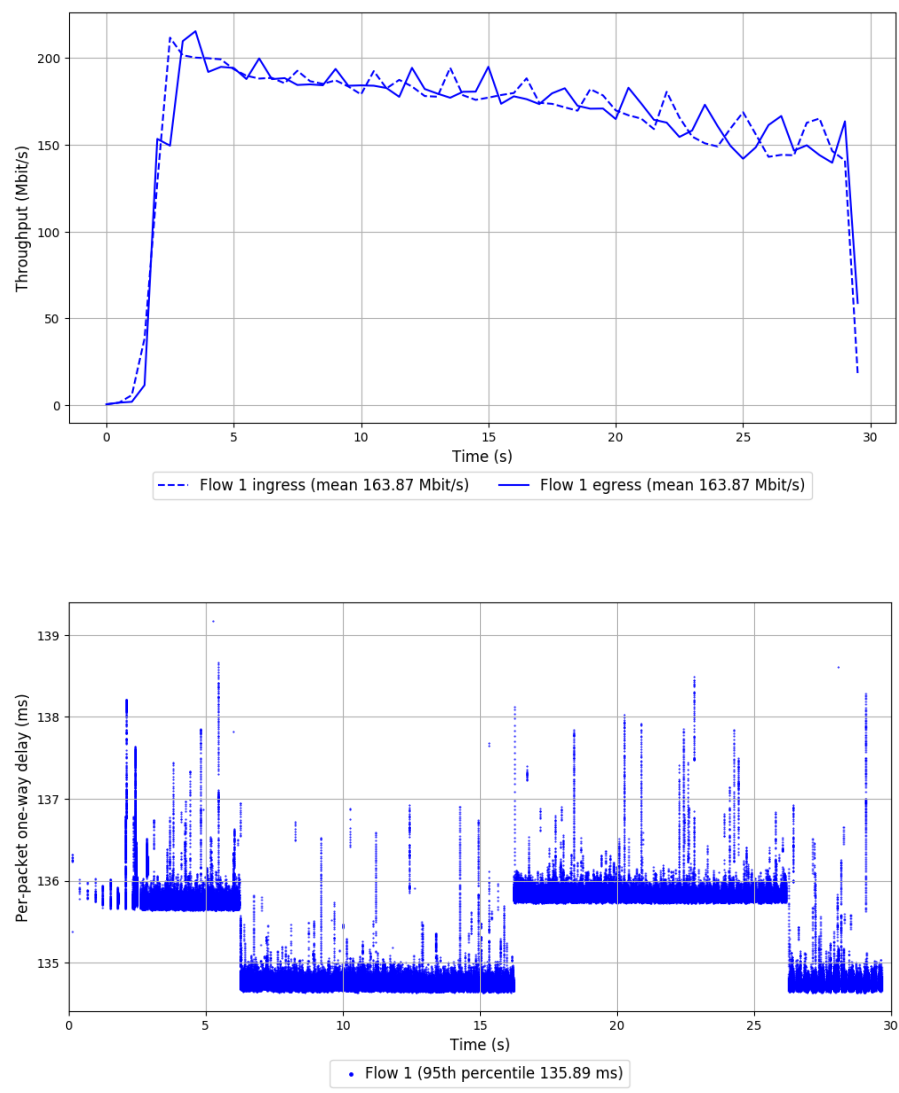
-- Flow 1:

Average throughput: 163.87 Mbit/s

95th percentile per-packet one-way delay: 135.886 ms

Loss rate: 0.00%

Run 2: Report of Indigo-1-32 — Data Link



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-10 22:42:57

End at: 2018-04-10 22:43:27

Below is generated by plot.py at 2018-04-11 02:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.16 Mbit/s

95th percentile per-packet one-way delay: 135.802 ms

Loss rate: 0.00%

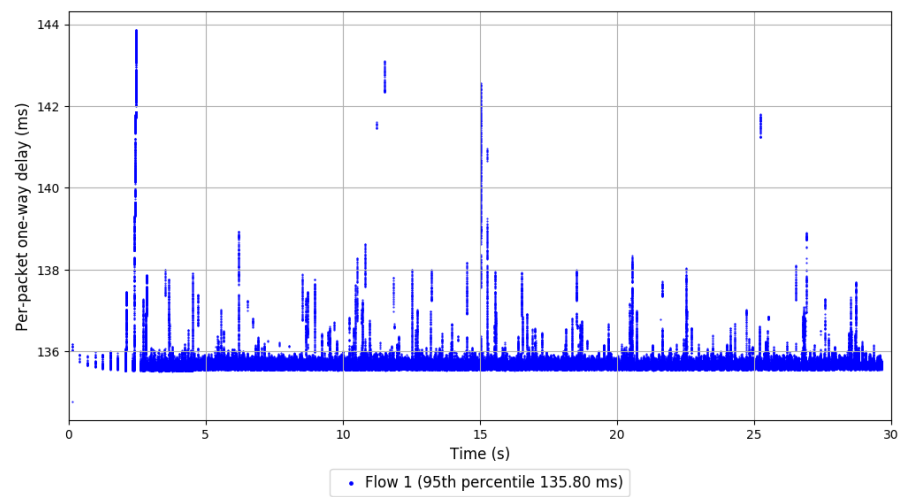
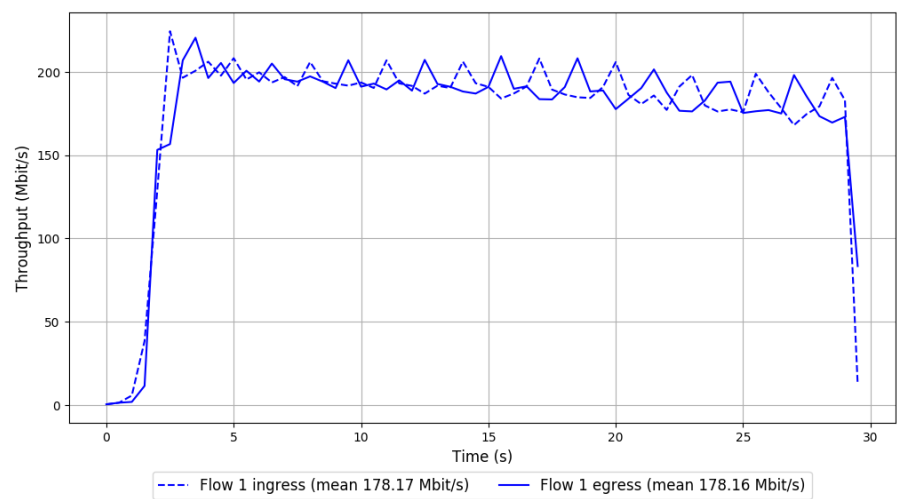
-- Flow 1:

Average throughput: 178.16 Mbit/s

95th percentile per-packet one-way delay: 135.802 ms

Loss rate: 0.00%

Run 3: Report of Indigo-1-32 — Data Link



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-10 22:58:47

End at: 2018-04-10 22:59:17

Below is generated by plot.py at 2018-04-11 02:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.16 Mbit/s

95th percentile per-packet one-way delay: 135.826 ms

Loss rate: 0.00%

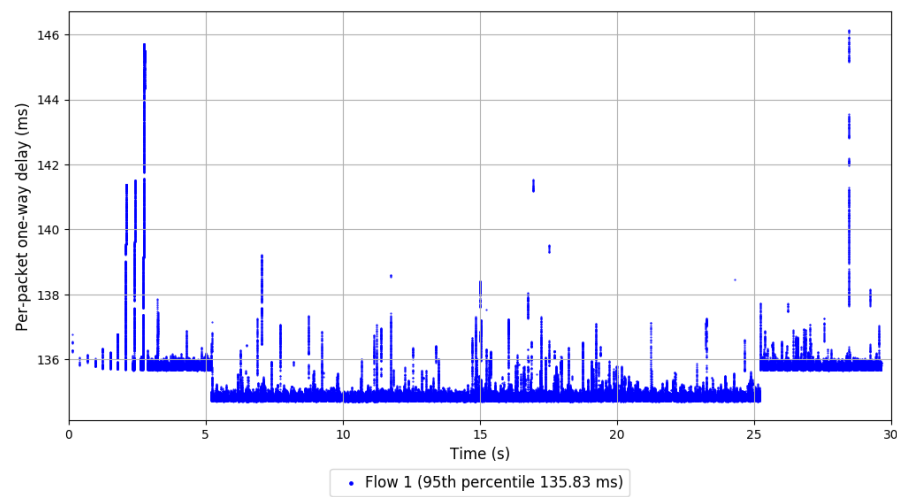
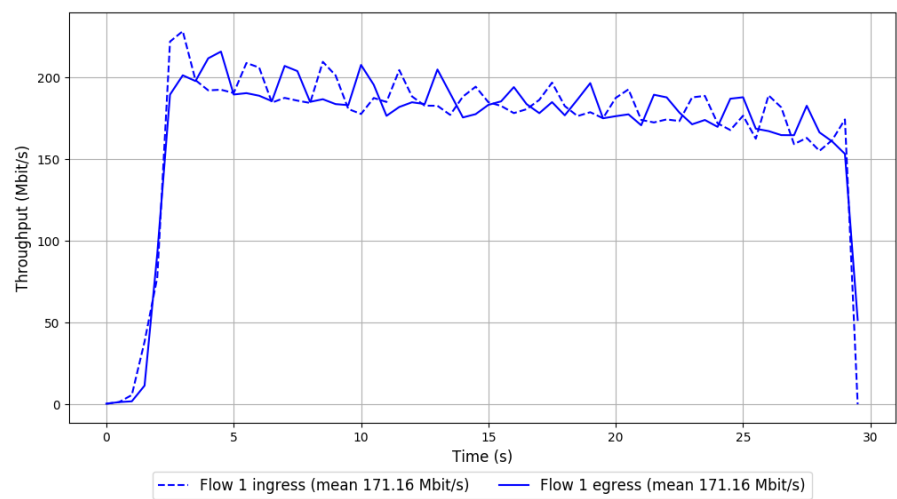
-- Flow 1:

Average throughput: 171.16 Mbit/s

95th percentile per-packet one-way delay: 135.826 ms

Loss rate: 0.00%

Run 4: Report of Indigo-1-32 — Data Link



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-10 23:15:02

End at: 2018-04-10 23:15:32

Below is generated by plot.py at 2018-04-11 02:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.03 Mbit/s

95th percentile per-packet one-way delay: 135.859 ms

Loss rate: 0.00%

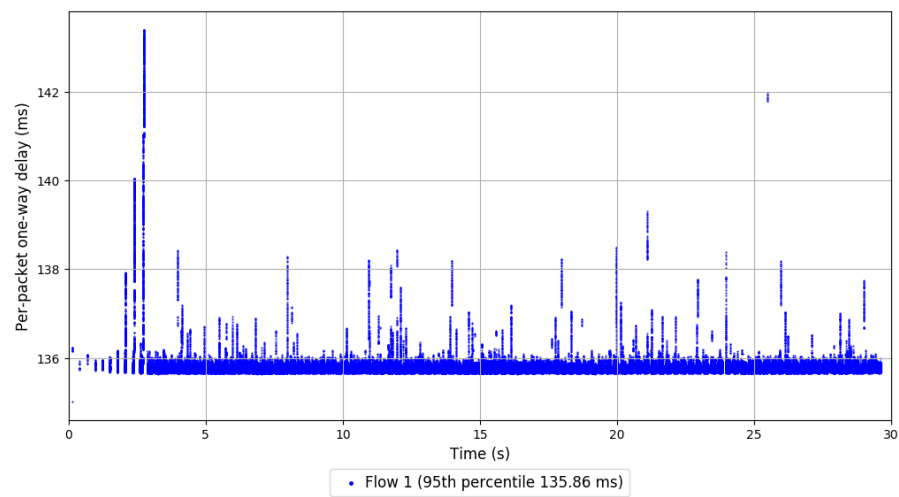
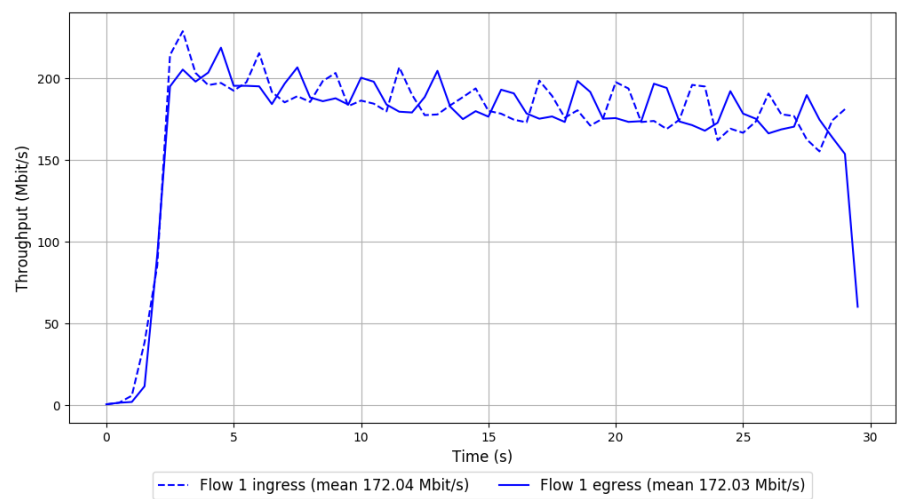
-- Flow 1:

Average throughput: 172.03 Mbit/s

95th percentile per-packet one-way delay: 135.859 ms

Loss rate: 0.00%

Run 5: Report of Indigo-1-32 — Data Link



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-10 23:30:57

End at: 2018-04-10 23:31:27

Below is generated by plot.py at 2018-04-11 02:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.50 Mbit/s

95th percentile per-packet one-way delay: 135.835 ms

Loss rate: 0.00%

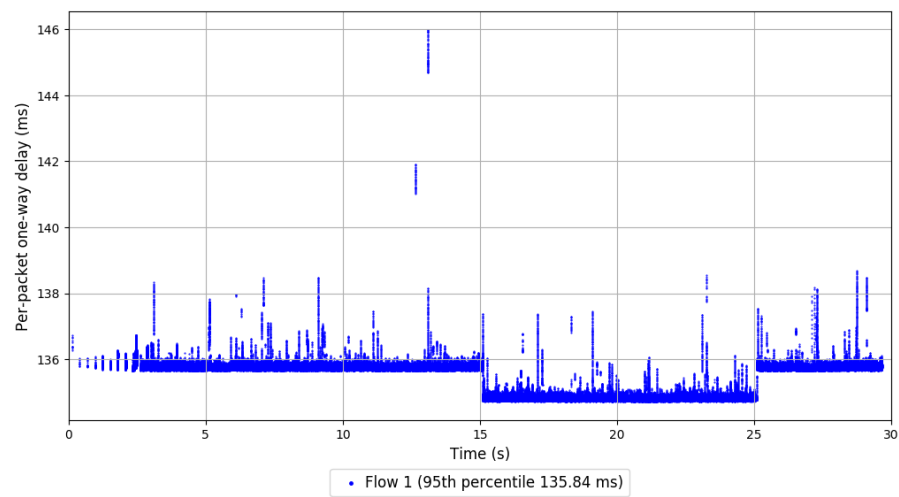
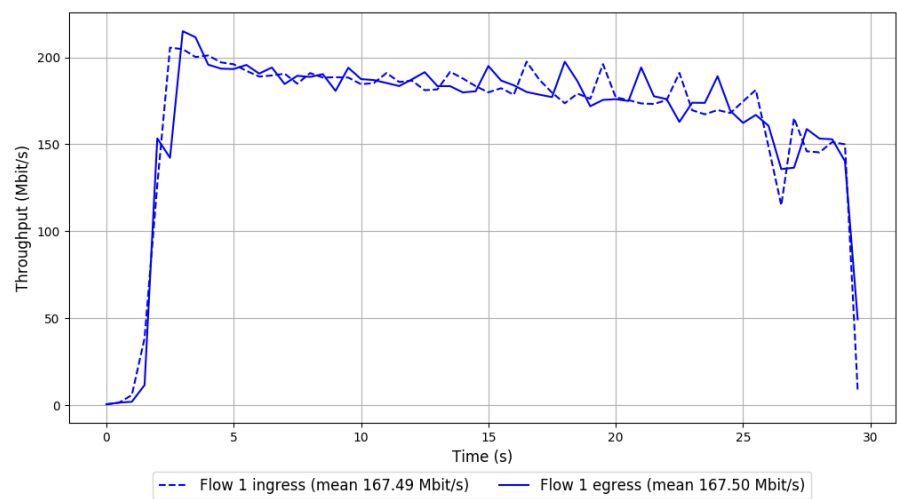
-- Flow 1:

Average throughput: 167.50 Mbit/s

95th percentile per-packet one-way delay: 135.835 ms

Loss rate: 0.00%

Run 6: Report of Indigo-1-32 — Data Link



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-10 23:47:04

End at: 2018-04-10 23:47:34

Below is generated by plot.py at 2018-04-11 02:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.02 Mbit/s

95th percentile per-packet one-way delay: 136.068 ms

Loss rate: 0.00%

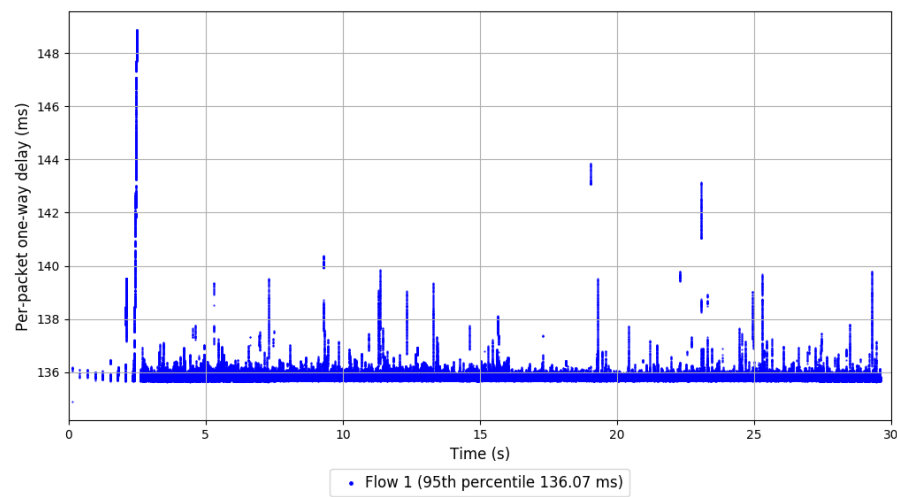
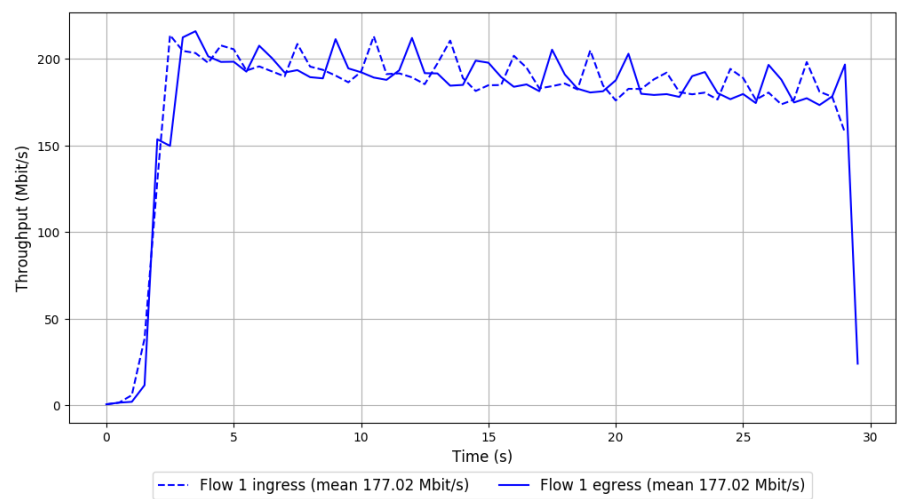
-- Flow 1:

Average throughput: 177.02 Mbit/s

95th percentile per-packet one-way delay: 136.068 ms

Loss rate: 0.00%

Run 7: Report of Indigo-1-32 — Data Link



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-11 00:02:45

End at: 2018-04-11 00:03:15

Below is generated by plot.py at 2018-04-11 02:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.16 Mbit/s

95th percentile per-packet one-way delay: 136.087 ms

Loss rate: 0.00%

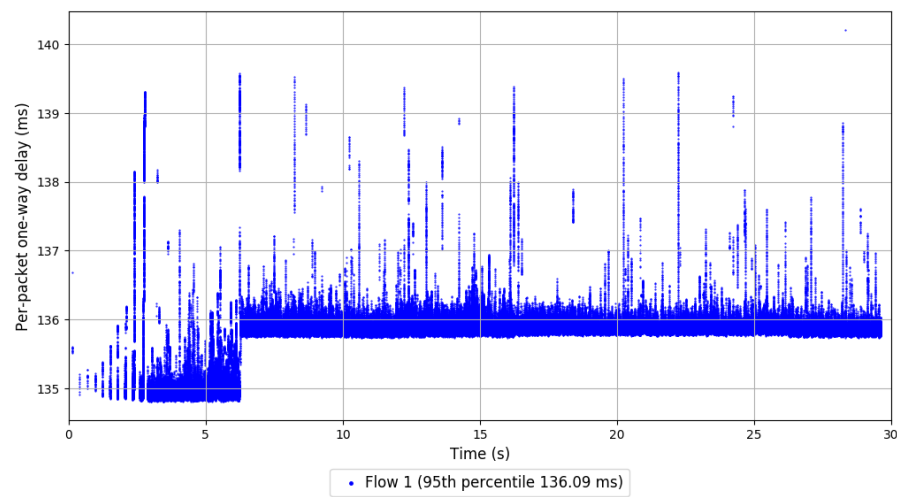
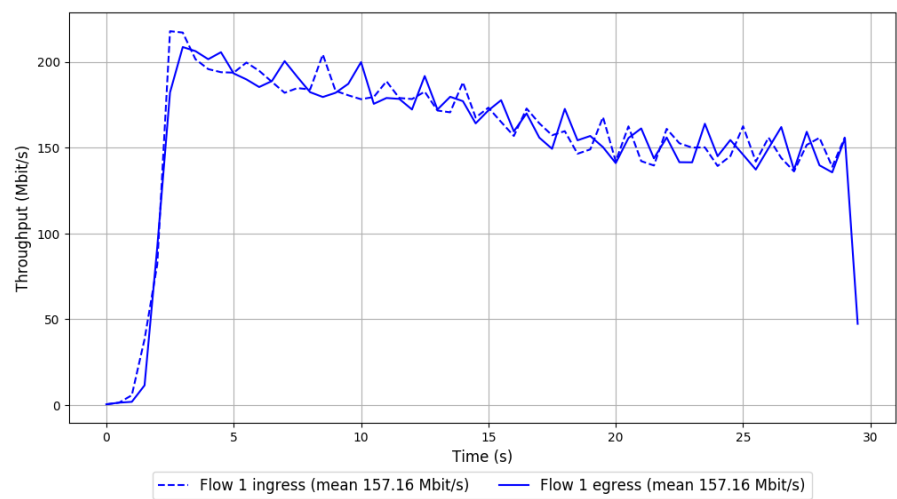
-- Flow 1:

Average throughput: 157.16 Mbit/s

95th percentile per-packet one-way delay: 136.087 ms

Loss rate: 0.00%

Run 8: Report of Indigo-1-32 — Data Link



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-11 00:18:30

End at: 2018-04-11 00:19:00

Below is generated by plot.py at 2018-04-11 02:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.87 Mbit/s

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

Loss rate: 0.00%

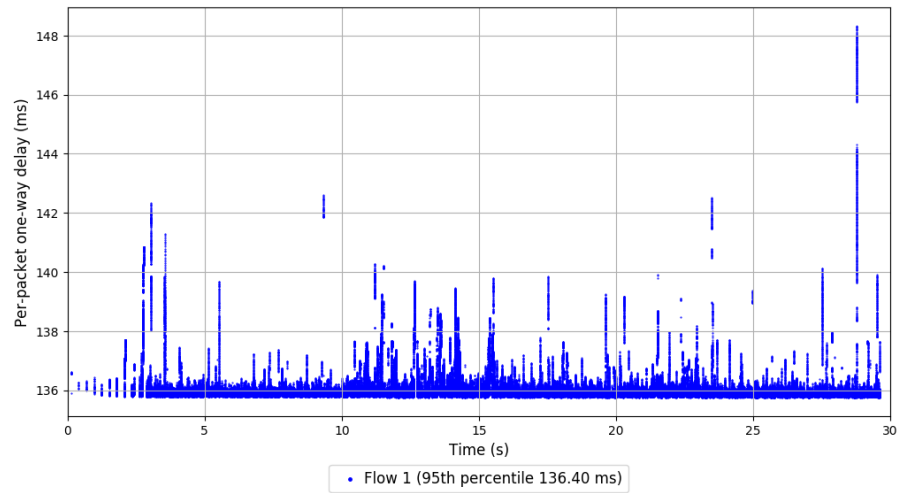
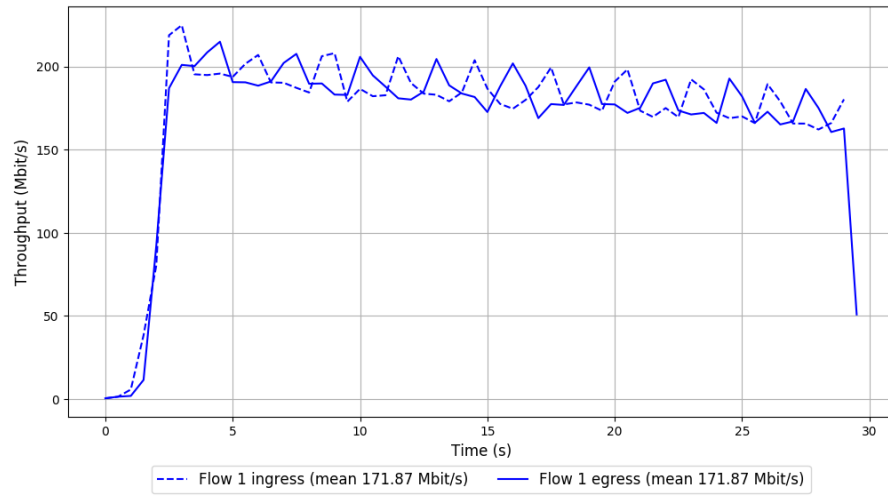
-- Flow 1:

Average throughput: 171.87 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of Indigo-1-32 — Data Link



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-11 00:34:23

End at: 2018-04-11 00:34:53

Below is generated by plot.py at 2018-04-11 02:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.53 Mbit/s

95th percentile per-packet one-way delay: 136.060 ms

Loss rate: 0.00%

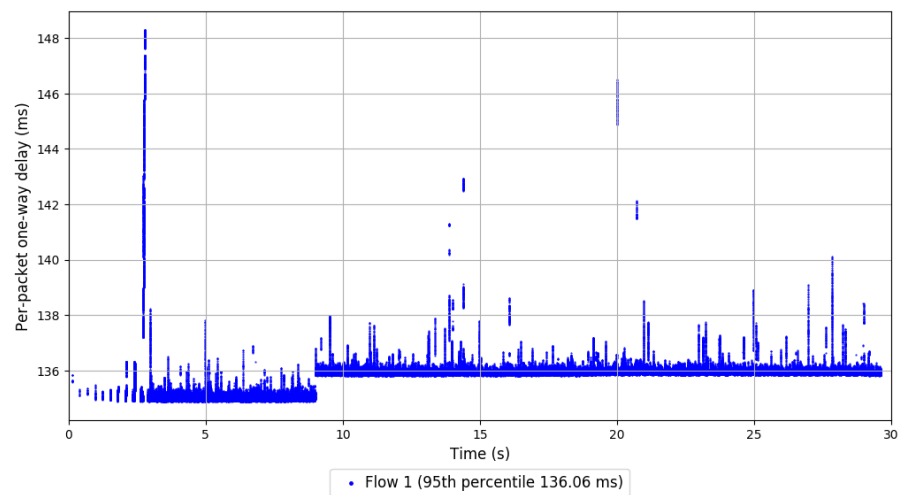
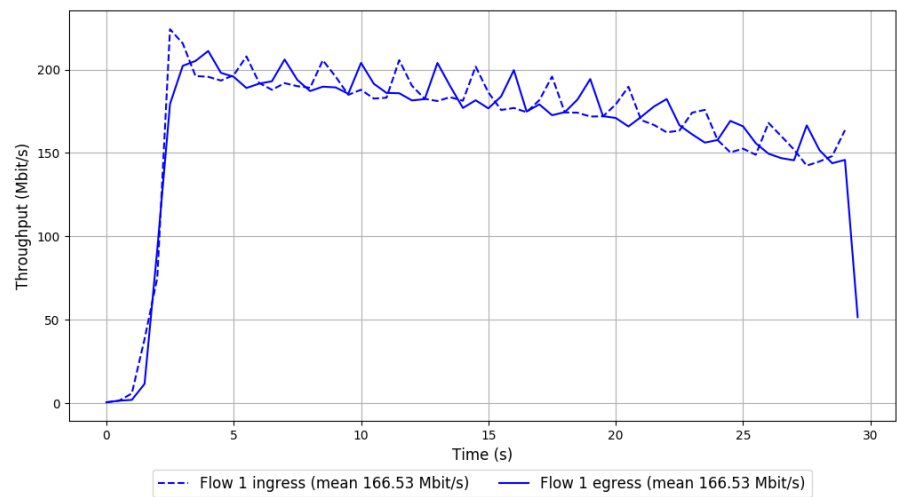
-- Flow 1:

Average throughput: 166.53 Mbit/s

95th percentile per-packet one-way delay: 136.060 ms

Loss rate: 0.00%

Run 10: Report of Indigo-1-32 — Data Link



Run 1: Statistics of Vivace-latency

Start at: 2018-04-10 22:17:41

End at: 2018-04-10 22:18:11

Below is generated by plot.py at 2018-04-11 02:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 321.24 Mbit/s

95th percentile per-packet one-way delay: 136.649 ms

Loss rate: 0.00%

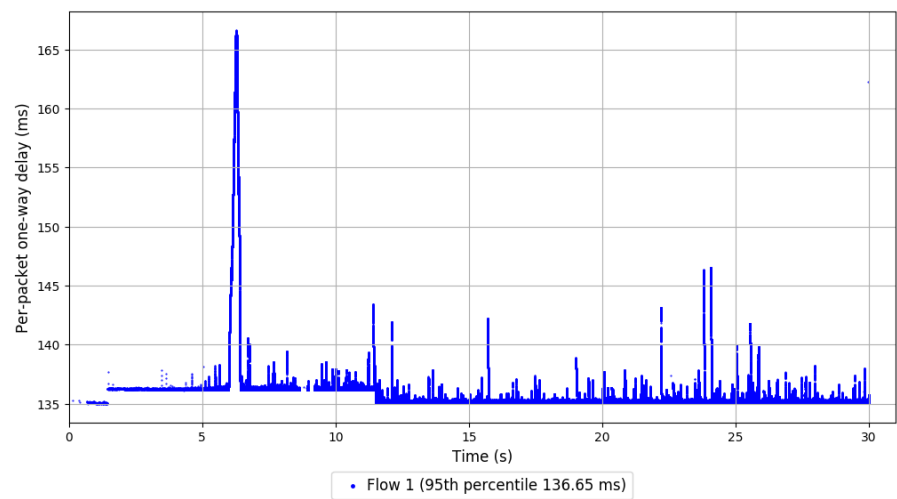
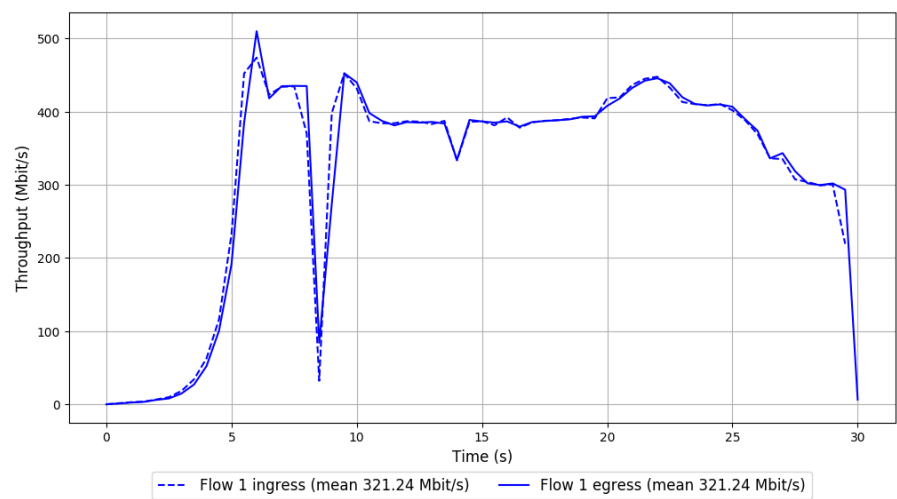
-- Flow 1:

Average throughput: 321.24 Mbit/s

95th percentile per-packet one-way delay: 136.649 ms

Loss rate: 0.00%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-04-10 22:34:03

End at: 2018-04-10 22:34:33

Below is generated by plot.py at 2018-04-11 02:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.95 Mbit/s

95th percentile per-packet one-way delay: 136.507 ms

Loss rate: 0.00%

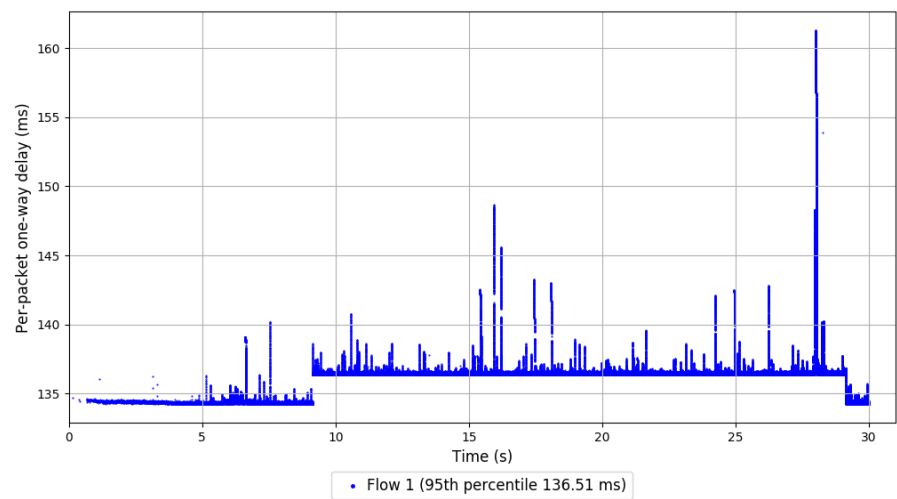
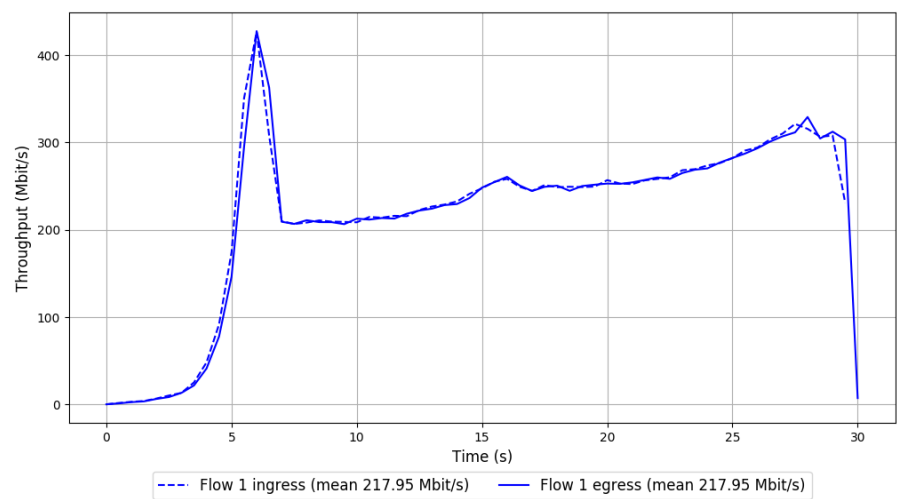
-- Flow 1:

Average throughput: 217.95 Mbit/s

95th percentile per-packet one-way delay: 136.507 ms

Loss rate: 0.00%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-04-10 22:49:44

End at: 2018-04-10 22:50:15

Below is generated by plot.py at 2018-04-11 02:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 342.64 Mbit/s

95th percentile per-packet one-way delay: 136.111 ms

Loss rate: 0.00%

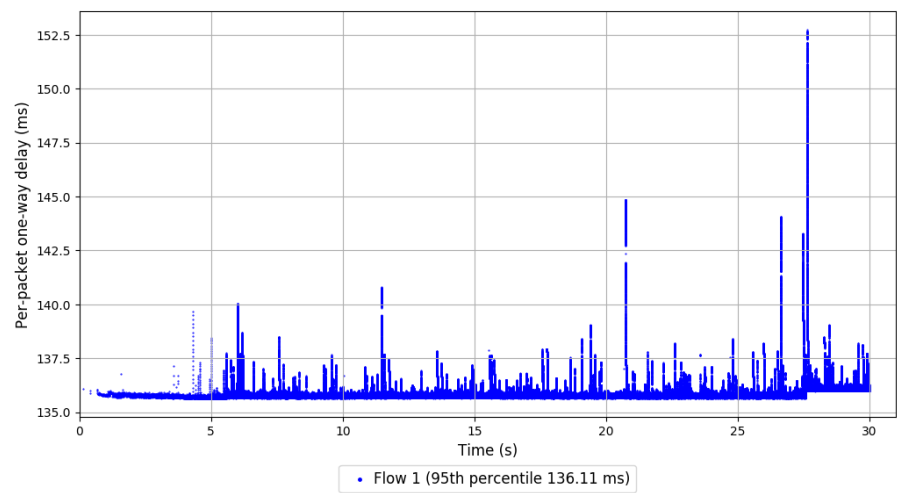
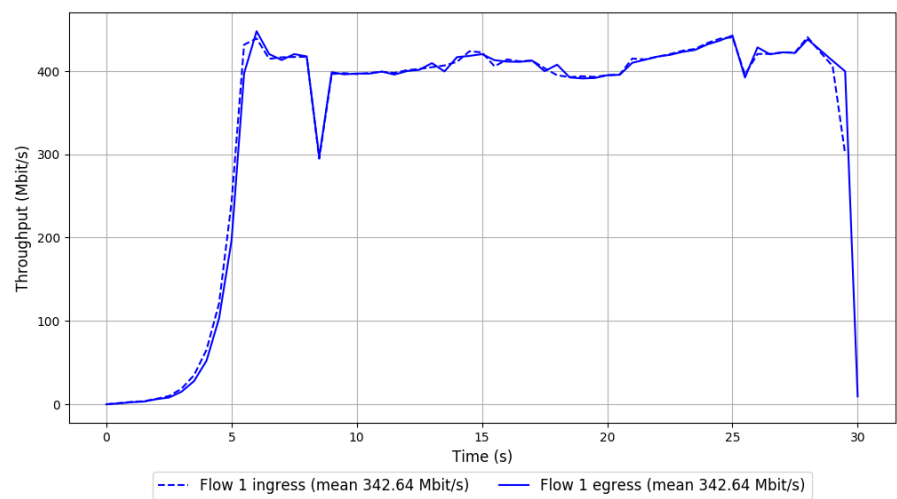
-- Flow 1:

Average throughput: 342.64 Mbit/s

95th percentile per-packet one-way delay: 136.111 ms

Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-04-10 23:05:42

End at: 2018-04-10 23:06:12

Below is generated by plot.py at 2018-04-11 02:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 330.21 Mbit/s

95th percentile per-packet one-way delay: 136.431 ms

Loss rate: 0.00%

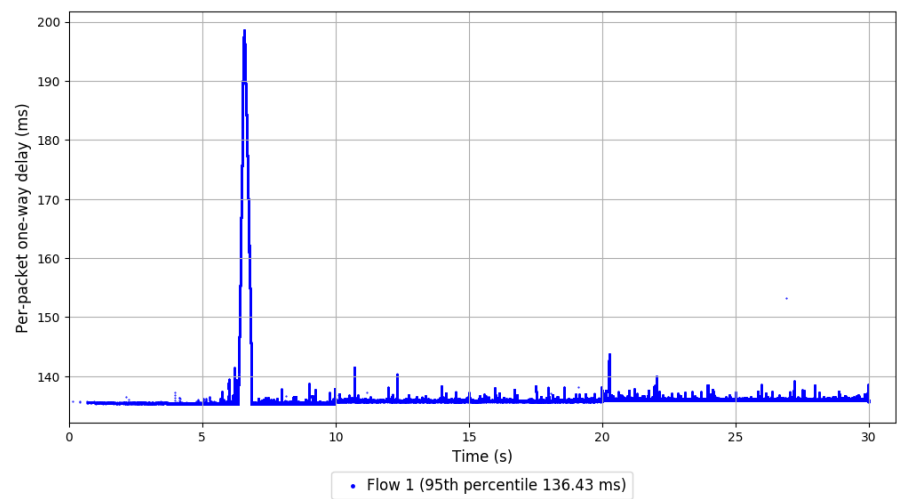
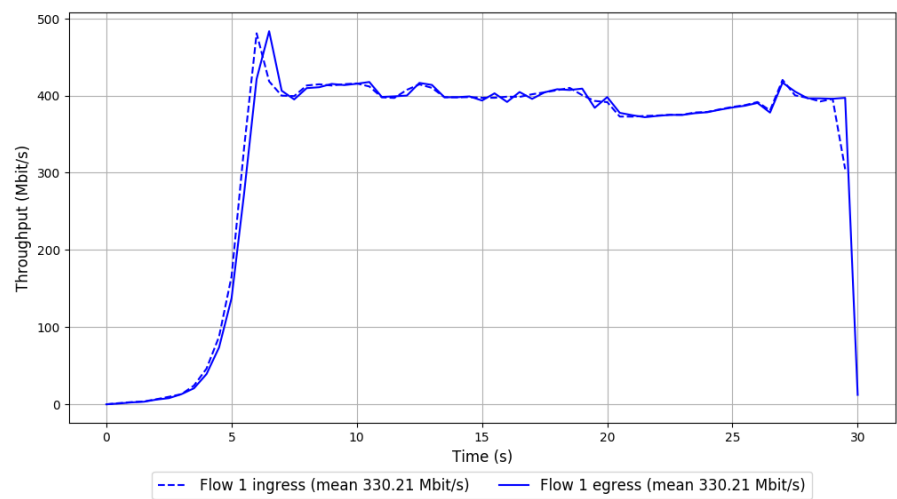
-- Flow 1:

Average throughput: 330.21 Mbit/s

95th percentile per-packet one-way delay: 136.431 ms

Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-04-10 23:21:55

End at: 2018-04-10 23:22:25

Below is generated by plot.py at 2018-04-11 02:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 311.19 Mbit/s

95th percentile per-packet one-way delay: 136.714 ms

Loss rate: 0.00%

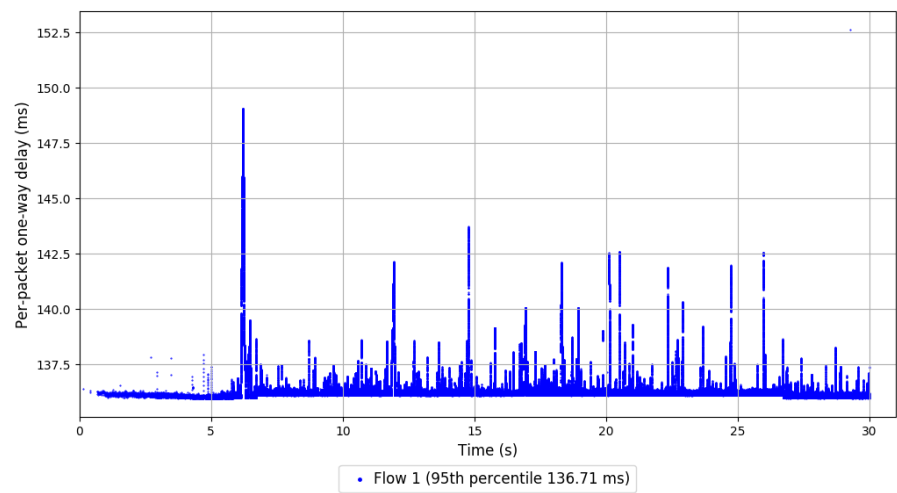
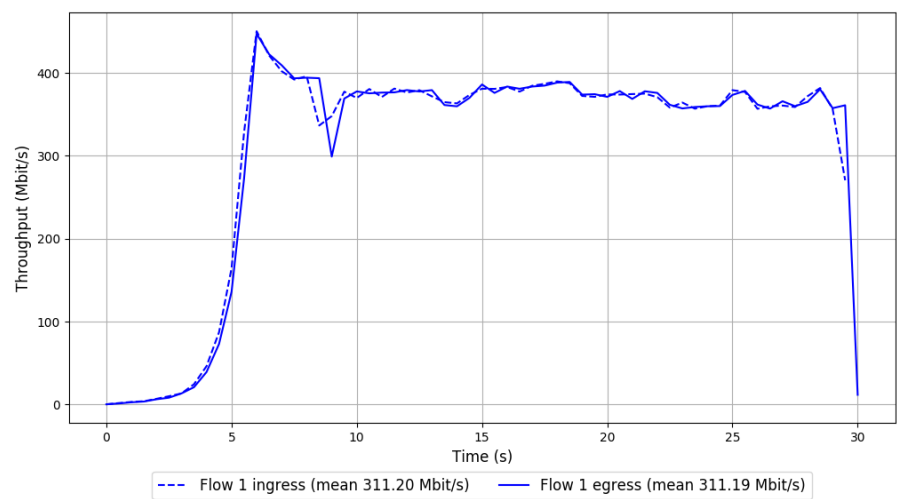
-- Flow 1:

Average throughput: 311.19 Mbit/s

95th percentile per-packet one-way delay: 136.714 ms

Loss rate: 0.00%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-04-10 23:37:53

End at: 2018-04-10 23:38:23

Below is generated by plot.py at 2018-04-11 02:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 336.86 Mbit/s

95th percentile per-packet one-way delay: 135.463 ms

Loss rate: 0.00%

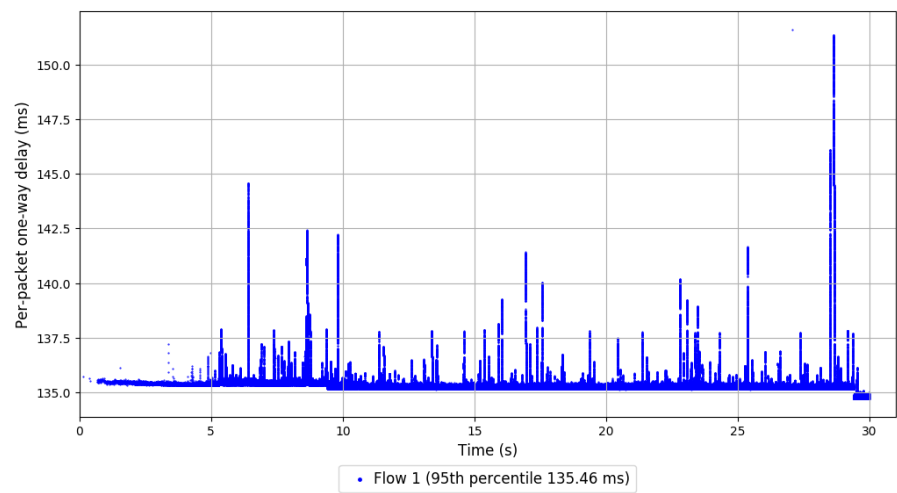
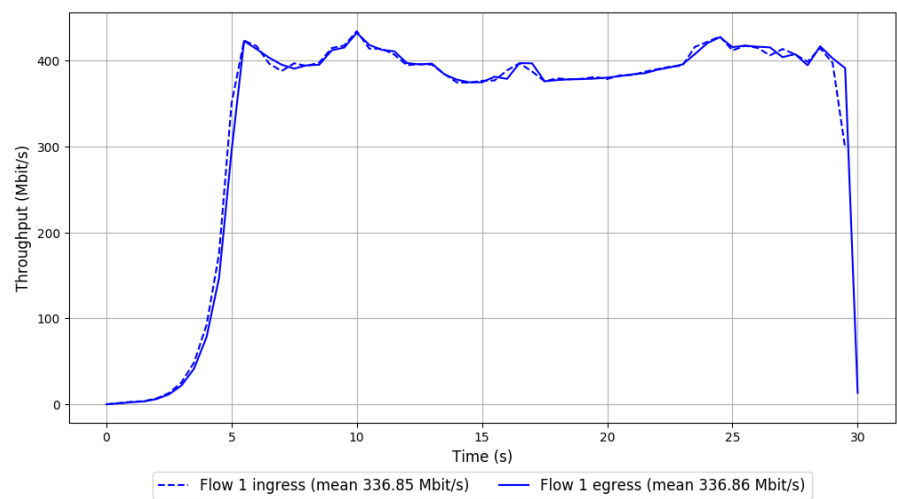
-- Flow 1:

Average throughput: 336.86 Mbit/s

95th percentile per-packet one-way delay: 135.463 ms

Loss rate: 0.00%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-04-10 23:53:38

End at: 2018-04-10 23:54:08

Below is generated by plot.py at 2018-04-11 02:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 260.20 Mbit/s

95th percentile per-packet one-way delay: 142.498 ms

Loss rate: 0.00%

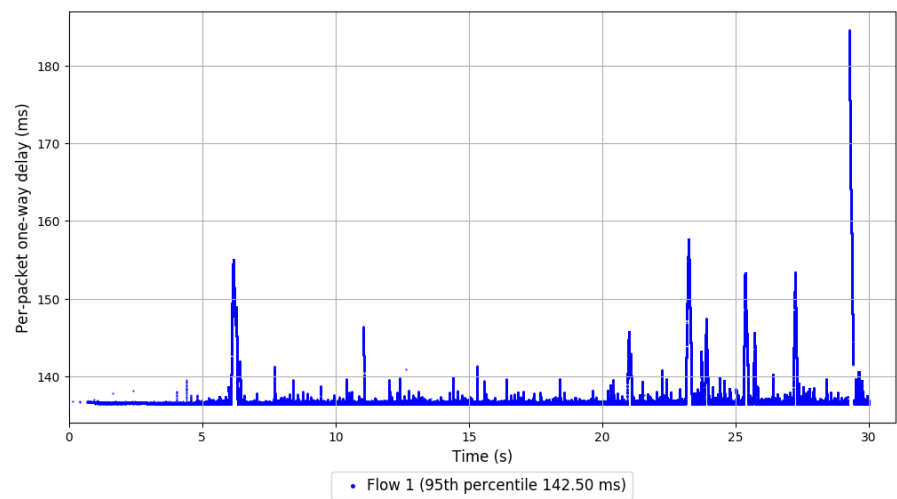
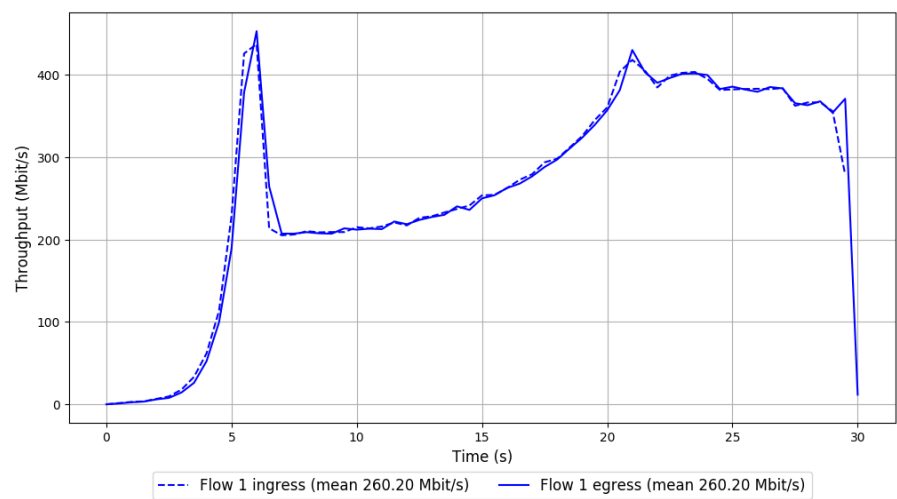
-- Flow 1:

Average throughput: 260.20 Mbit/s

95th percentile per-packet one-way delay: 142.498 ms

Loss rate: 0.00%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-04-11 00:09:36

End at: 2018-04-11 00:10:06

Below is generated by plot.py at 2018-04-11 02:46:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 310.54 Mbit/s

95th percentile per-packet one-way delay: 136.023 ms

Loss rate: 0.01%

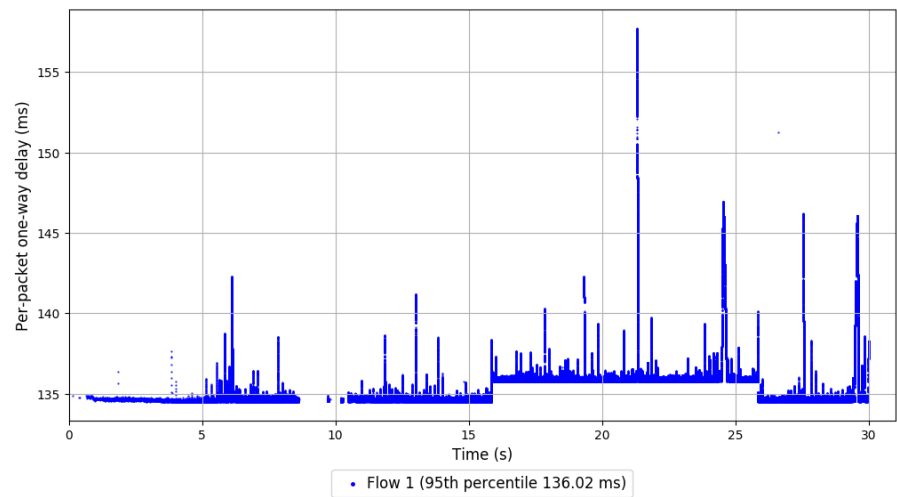
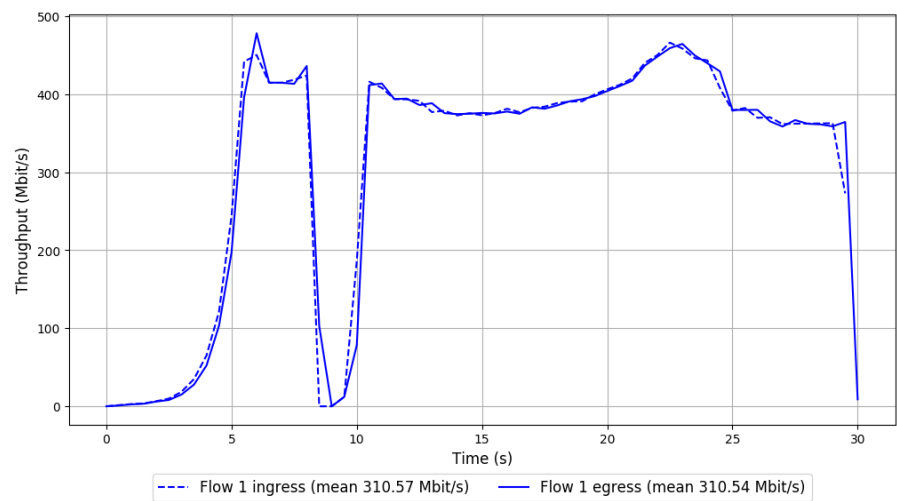
-- Flow 1:

Average throughput: 310.54 Mbit/s

95th percentile per-packet one-way delay: 136.023 ms

Loss rate: 0.01%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-04-11 00:25:22

End at: 2018-04-11 00:25:52

Below is generated by plot.py at 2018-04-11 02:47:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 324.85 Mbit/s

95th percentile per-packet one-way delay: 136.608 ms

Loss rate: 0.00%

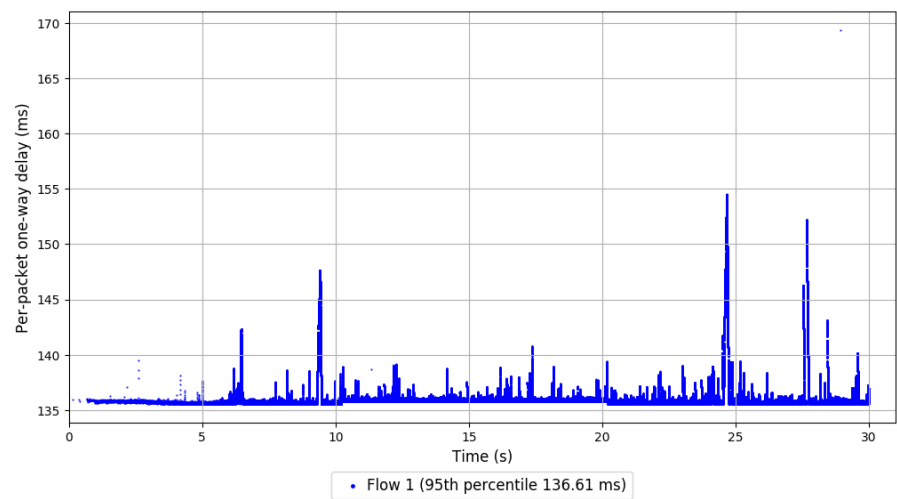
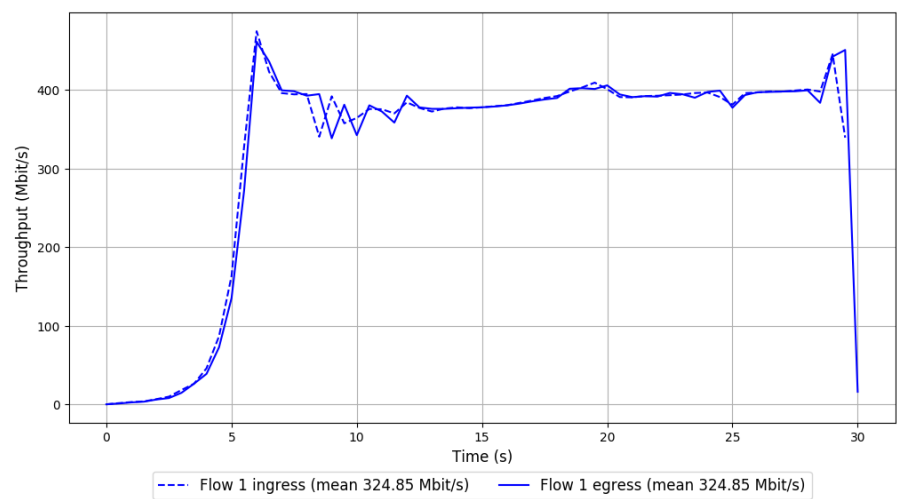
-- Flow 1:

Average throughput: 324.85 Mbit/s

95th percentile per-packet one-way delay: 136.608 ms

Loss rate: 0.00%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-04-11 00:41:18

End at: 2018-04-11 00:41:48

Below is generated by plot.py at 2018-04-11 02:47:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 269.03 Mbit/s

95th percentile per-packet one-way delay: 149.770 ms

Loss rate: 0.00%

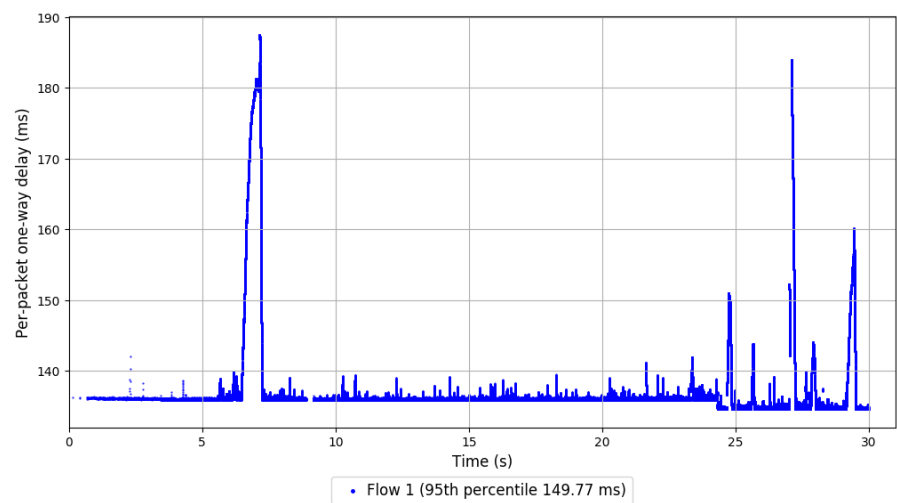
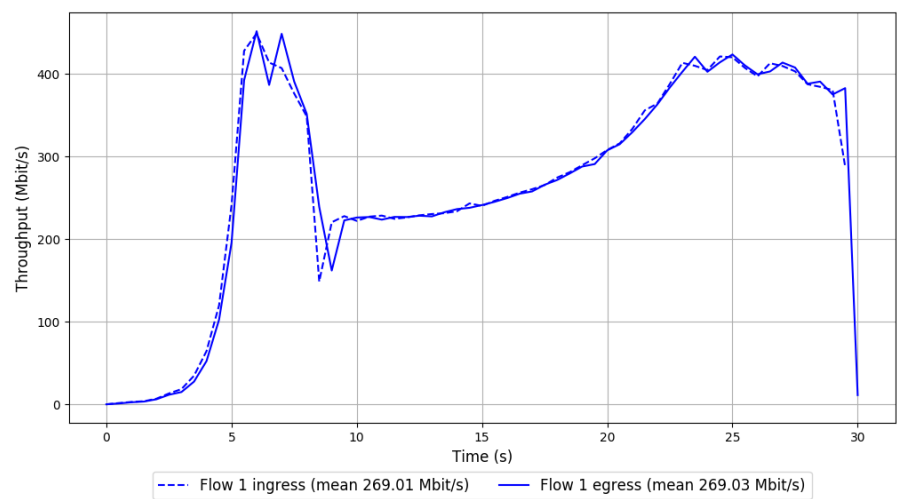
-- Flow 1:

Average throughput: 269.03 Mbit/s

95th percentile per-packet one-way delay: 149.770 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

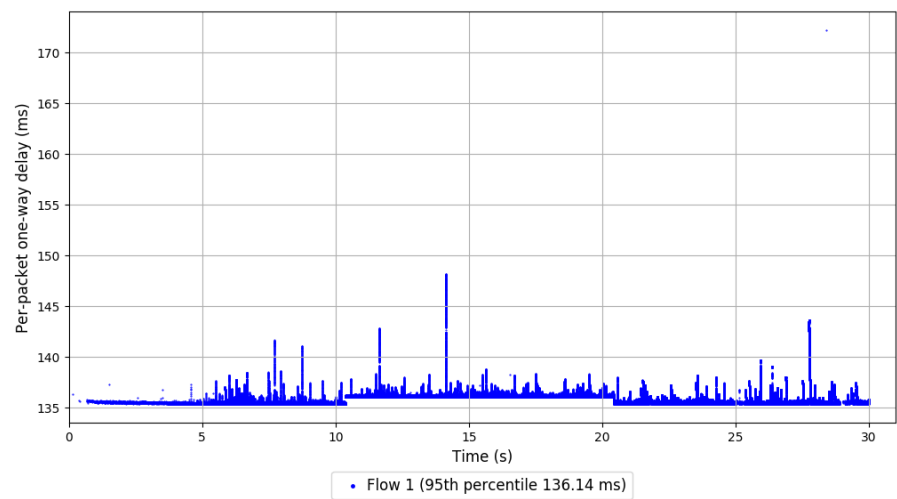
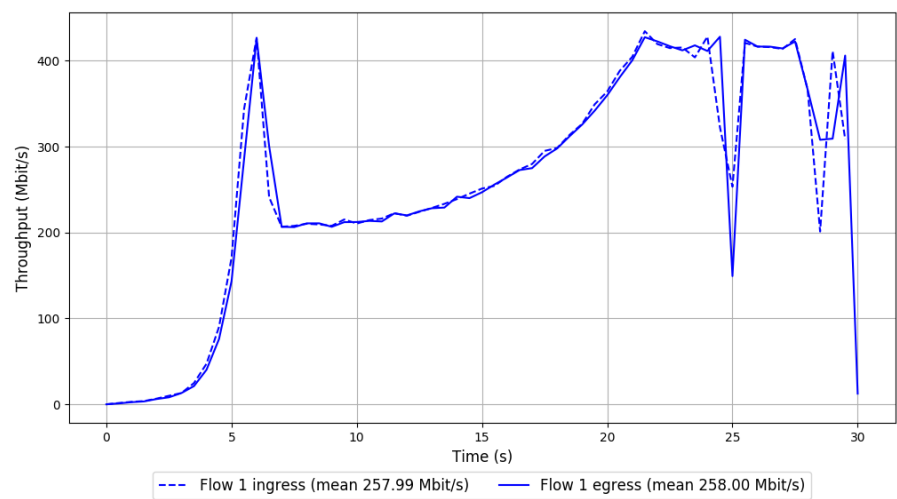


```
Run 1: Statistics of Vivace-loss

Start at: 2018-04-10 22:08:52
End at: 2018-04-10 22:09:22

# Below is generated by plot.py at 2018-04-11 02:47:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 258.00 Mbit/s
95th percentile per-packet one-way delay: 136.138 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 258.00 Mbit/s
95th percentile per-packet one-way delay: 136.138 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-04-10 22:24:53

End at: 2018-04-10 22:25:23

Below is generated by plot.py at 2018-04-11 02:49:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 326.02 Mbit/s

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

Loss rate: 0.00%

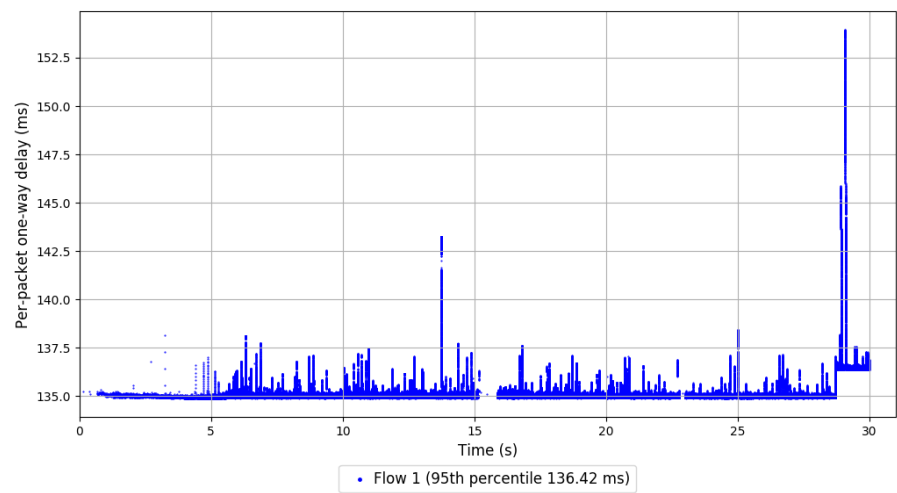
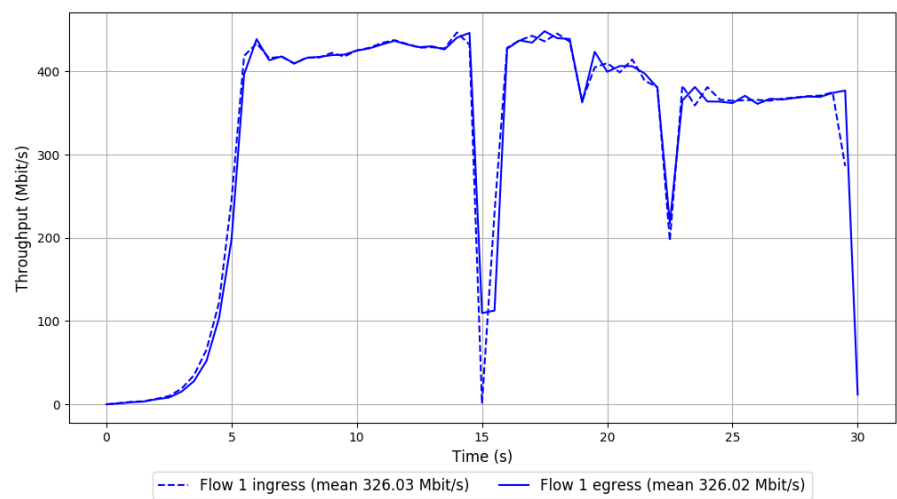
-- Flow 1:

Average throughput: 326.02 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-04-10 22:41:04

End at: 2018-04-10 22:41:34

Below is generated by plot.py at 2018-04-11 02:49:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 332.35 Mbit/s

95th percentile per-packet one-way delay: 136.200 ms

Loss rate: 0.00%

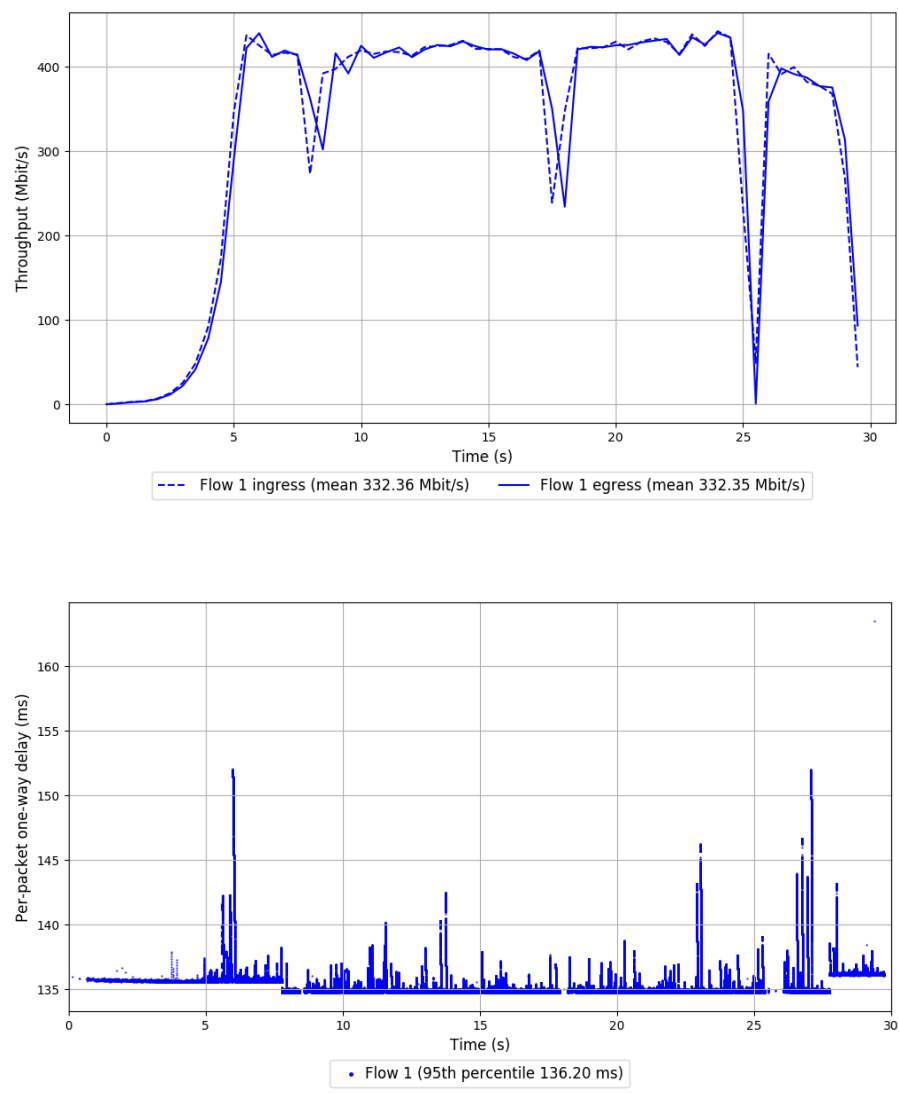
-- Flow 1:

Average throughput: 332.35 Mbit/s

95th percentile per-packet one-way delay: 136.200 ms

Loss rate: 0.00%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-04-10 22:56:56

End at: 2018-04-10 22:57:26

Below is generated by plot.py at 2018-04-11 02:50:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 319.08 Mbit/s

95th percentile per-packet one-way delay: 138.139 ms

Loss rate: 0.00%

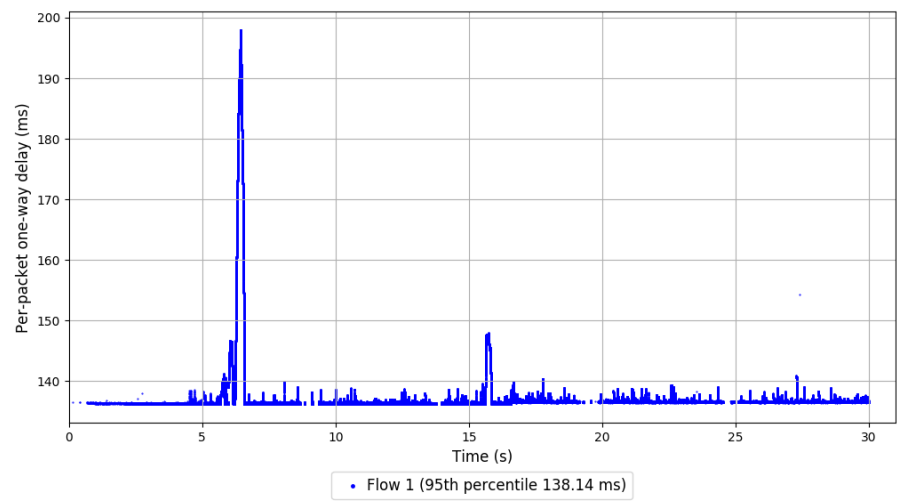
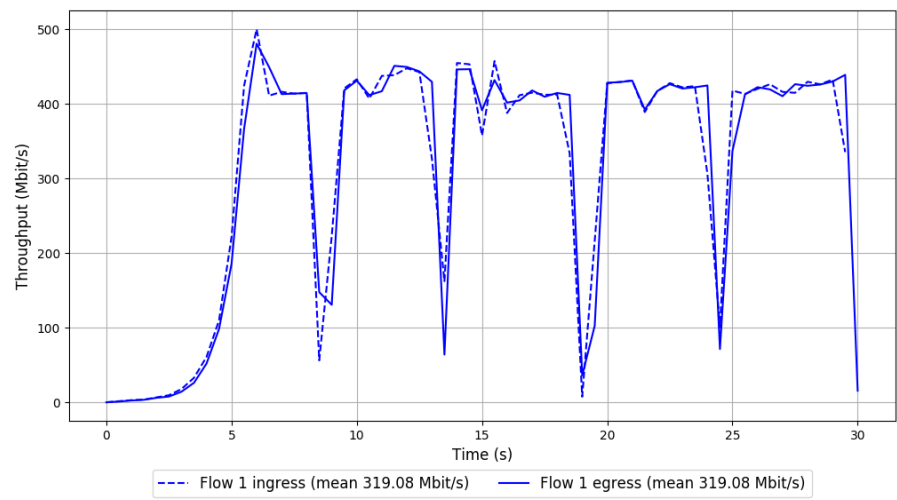
-- Flow 1:

Average throughput: 319.08 Mbit/s

95th percentile per-packet one-way delay: 138.139 ms

Loss rate: 0.00%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-04-10 23:12:50

End at: 2018-04-10 23:13:20

Below is generated by plot.py at 2018-04-11 02:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 331.70 Mbit/s

95th percentile per-packet one-way delay: 136.176 ms

Loss rate: 0.00%

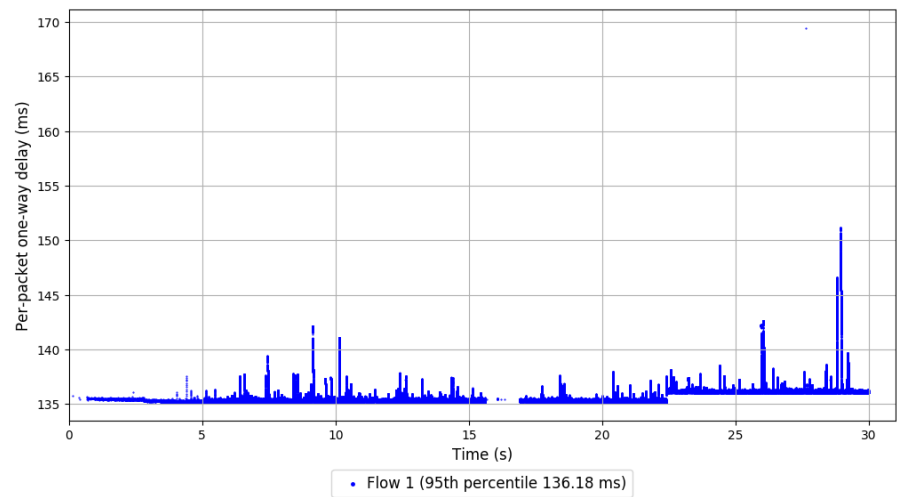
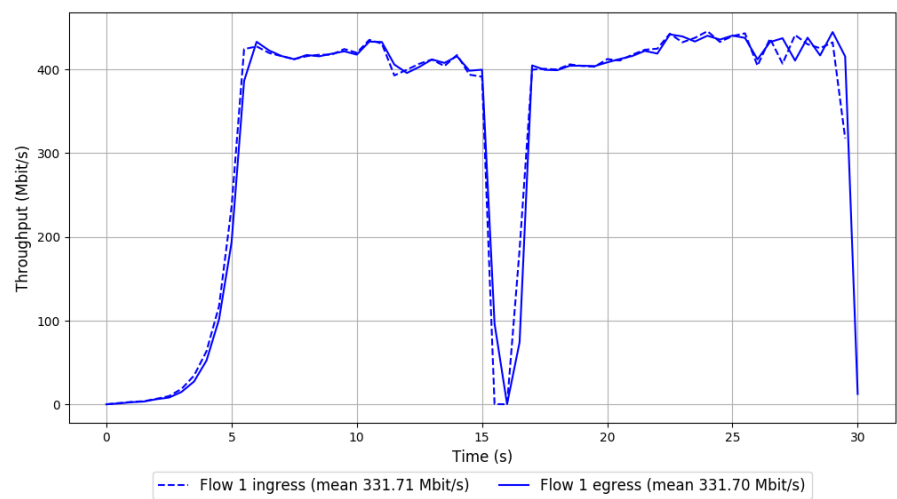
-- Flow 1:

Average throughput: 331.70 Mbit/s

95th percentile per-packet one-way delay: 136.176 ms

Loss rate: 0.00%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-04-10 23:29:03

End at: 2018-04-10 23:29:33

Below is generated by plot.py at 2018-04-11 02:53:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.56 Mbit/s

95th percentile per-packet one-way delay: 135.851 ms

Loss rate: 0.00%

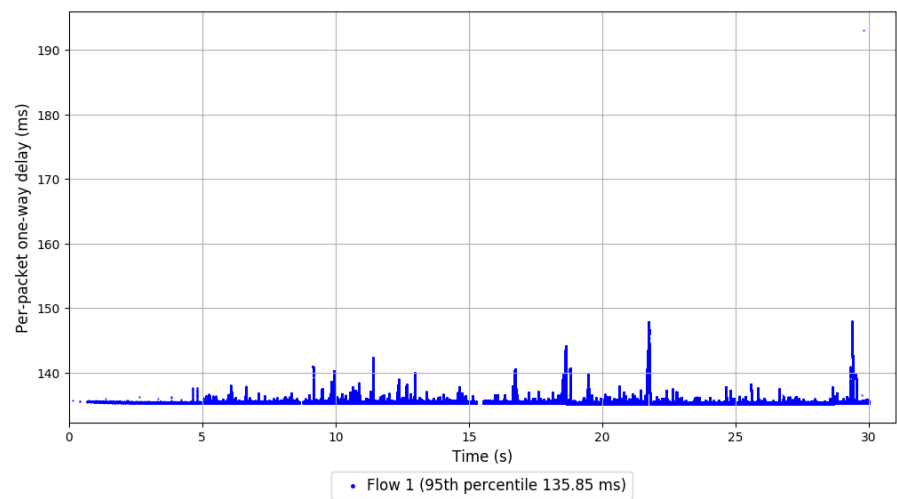
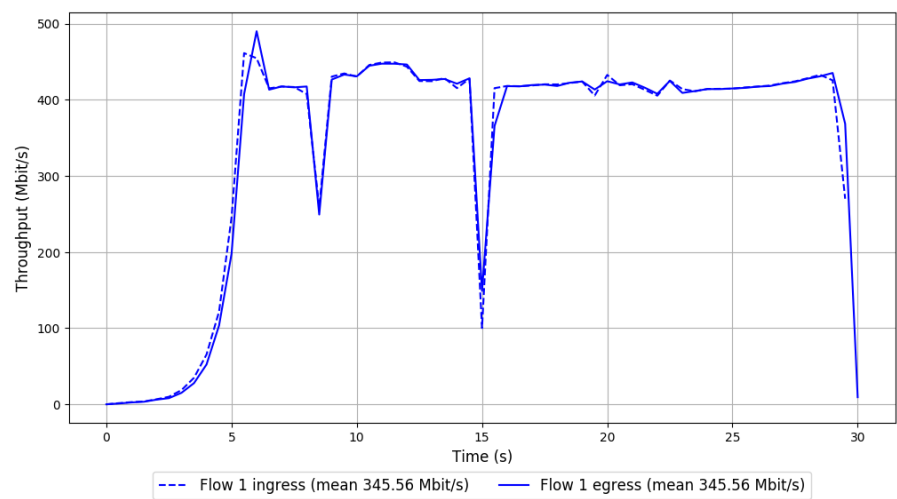
-- Flow 1:

Average throughput: 345.56 Mbit/s

95th percentile per-packet one-way delay: 135.851 ms

Loss rate: 0.00%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-04-10 23:45:02

End at: 2018-04-10 23:45:32

Below is generated by plot.py at 2018-04-11 02:53:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.46 Mbit/s

95th percentile per-packet one-way delay: 135.792 ms

Loss rate: 0.00%

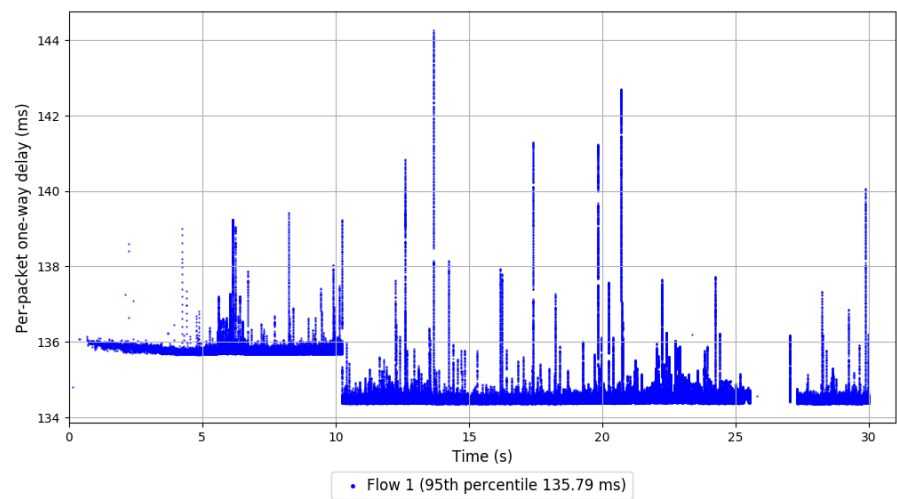
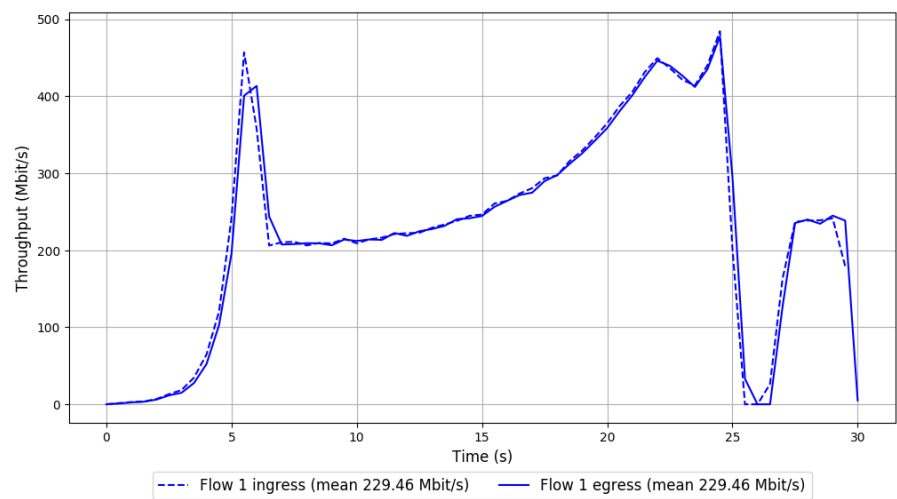
-- Flow 1:

Average throughput: 229.46 Mbit/s

95th percentile per-packet one-way delay: 135.792 ms

Loss rate: 0.00%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-04-11 00:00:40

End at: 2018-04-11 00:01:10

Below is generated by plot.py at 2018-04-11 02:53:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 249.53 Mbit/s

95th percentile per-packet one-way delay: 136.437 ms

Loss rate: 0.00%

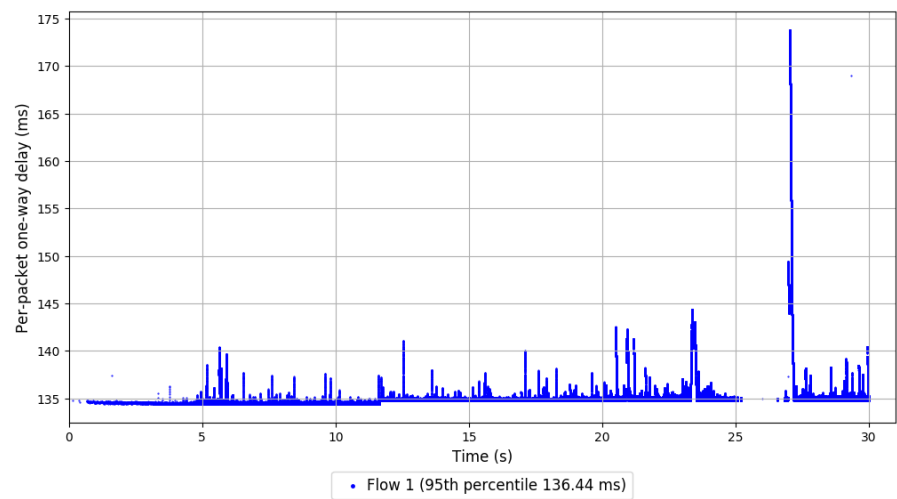
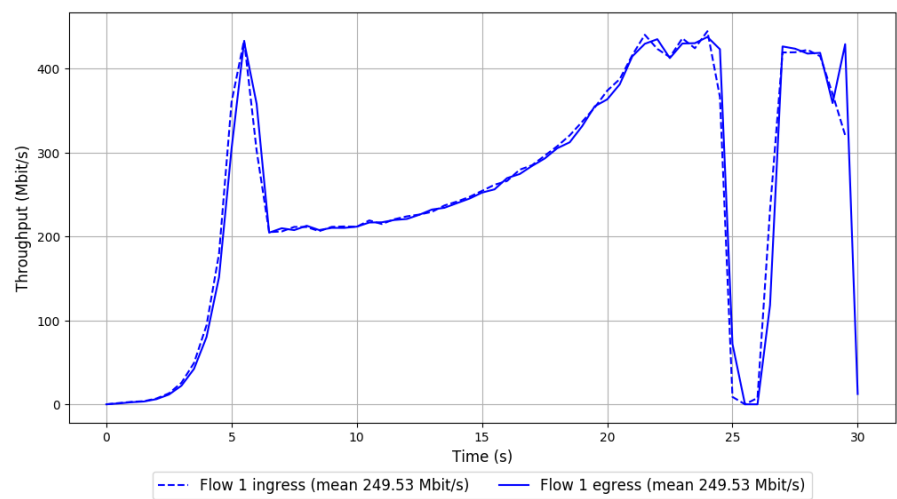
-- Flow 1:

Average throughput: 249.53 Mbit/s

95th percentile per-packet one-way delay: 136.437 ms

Loss rate: 0.00%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-04-11 00:16:44

End at: 2018-04-11 00:17:14

Below is generated by plot.py at 2018-04-11 02:53:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 246.99 Mbit/s

95th percentile per-packet one-way delay: 158.730 ms

Loss rate: 0.00%

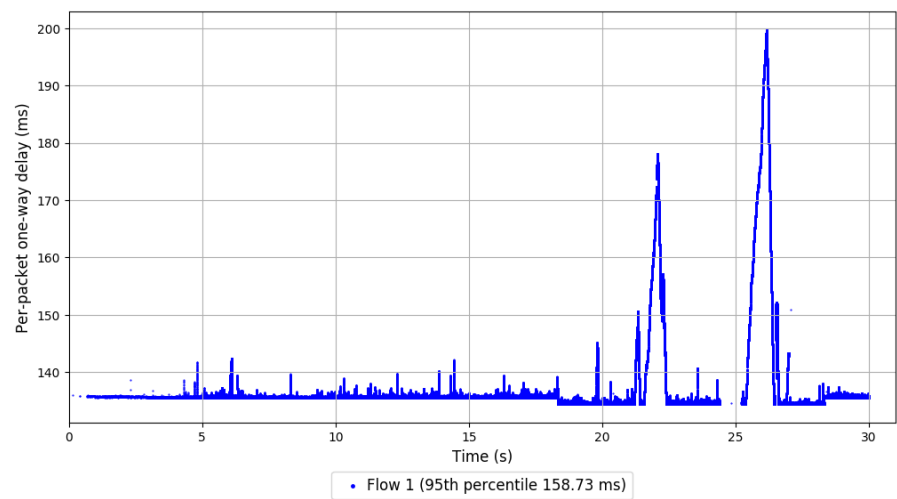
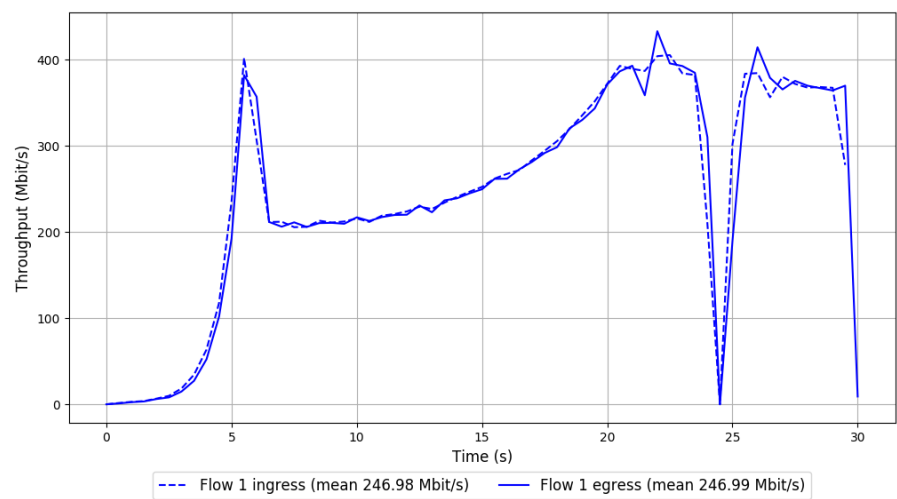
-- Flow 1:

Average throughput: 246.99 Mbit/s

95th percentile per-packet one-way delay: 158.730 ms

Loss rate: 0.00%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-04-11 00:32:30

End at: 2018-04-11 00:33:00

Below is generated by plot.py at 2018-04-11 02:55:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 336.28 Mbit/s

95th percentile per-packet one-way delay: 143.547 ms

Loss rate: 0.02%

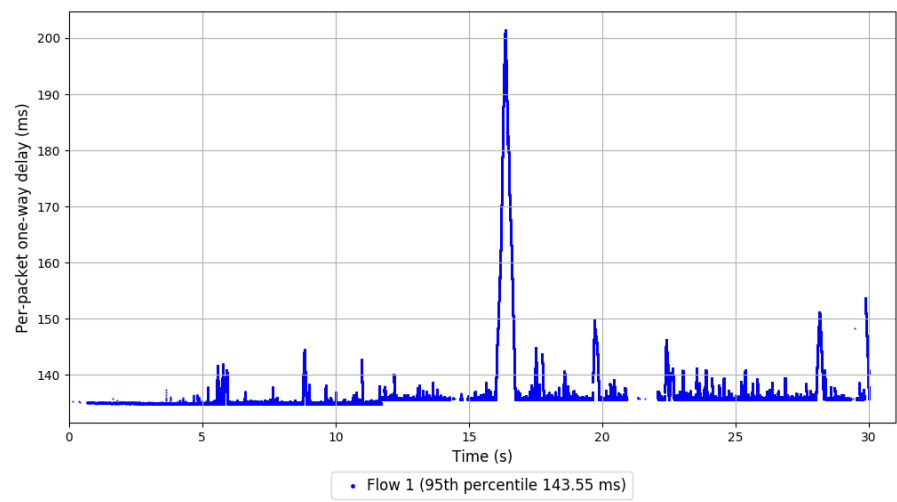
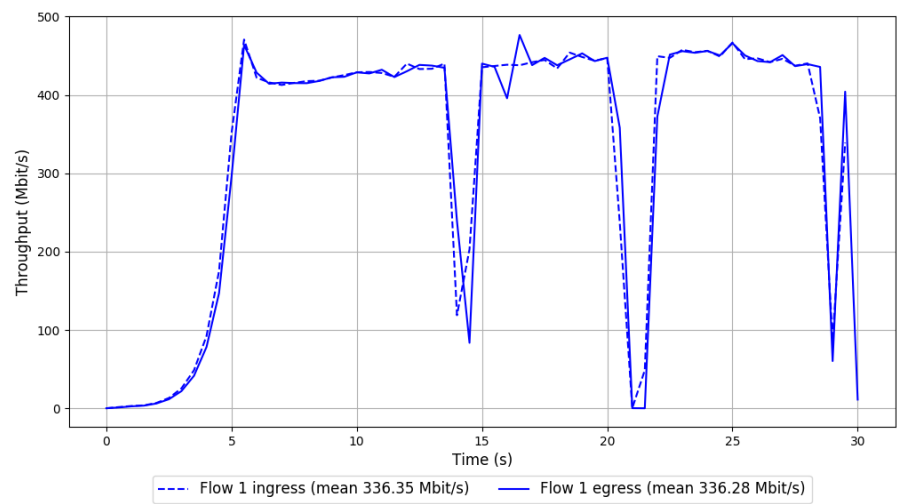
-- Flow 1:

Average throughput: 336.28 Mbit/s

95th percentile per-packet one-way delay: 143.547 ms

Loss rate: 0.02%

Run 10: Report of Vivace-loss — Data Link

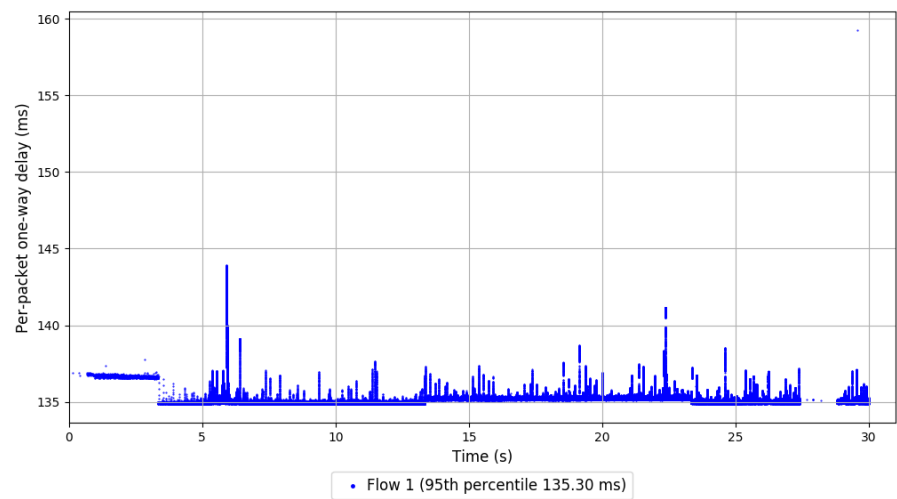
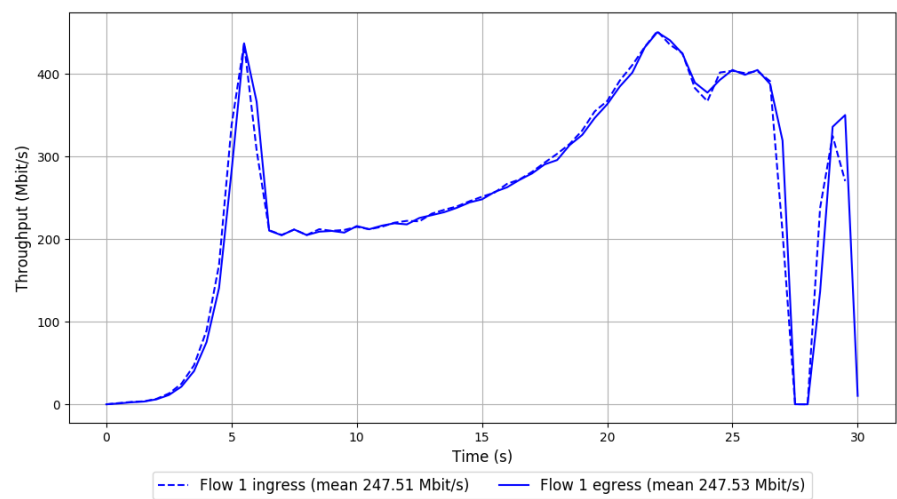


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-04-10 22:16:39
End at: 2018-04-10 22:17:09

# Below is generated by plot.py at 2018-04-11 02:55:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 247.53 Mbit/s
95th percentile per-packet one-way delay: 135.304 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 247.53 Mbit/s
95th percentile per-packet one-way delay: 135.304 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-04-10 22:32:52

End at: 2018-04-10 22:33:22

Below is generated by plot.py at 2018-04-11 02:56:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 357.92 Mbit/s

95th percentile per-packet one-way delay: 135.226 ms

Loss rate: 0.00%

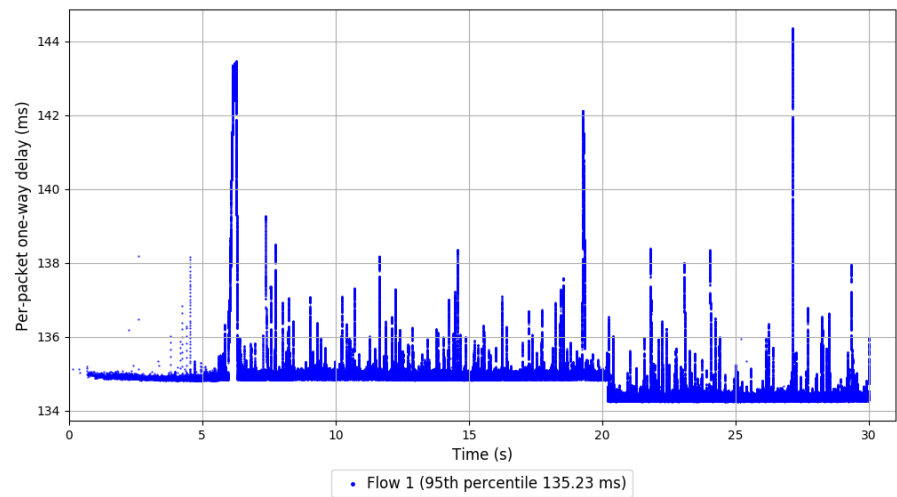
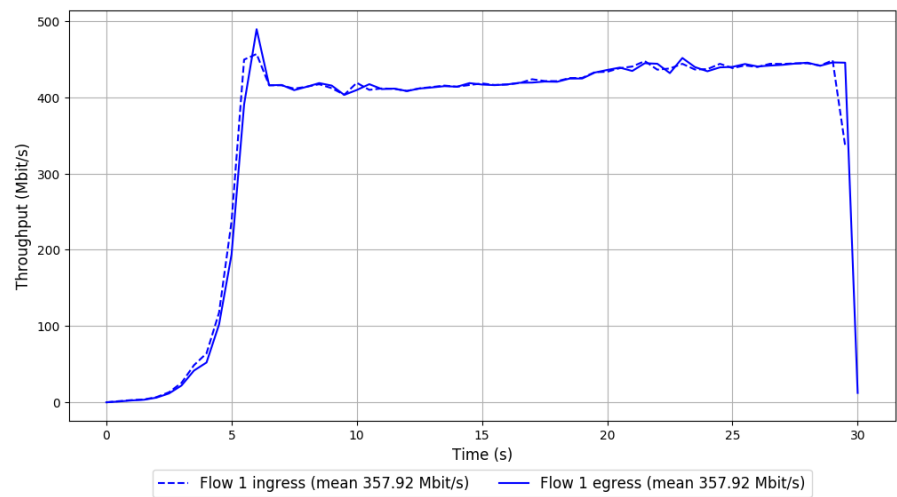
-- Flow 1:

Average throughput: 357.92 Mbit/s

95th percentile per-packet one-way delay: 135.226 ms

Loss rate: 0.00%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-04-10 22:48:36

End at: 2018-04-10 22:49:06

Below is generated by plot.py at 2018-04-11 02:57:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 332.35 Mbit/s

95th percentile per-packet one-way delay: 135.397 ms

Loss rate: 0.00%

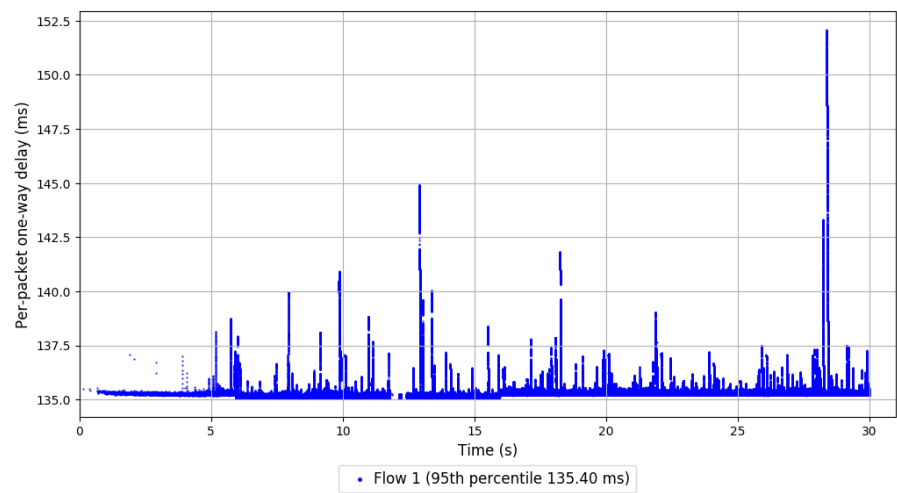
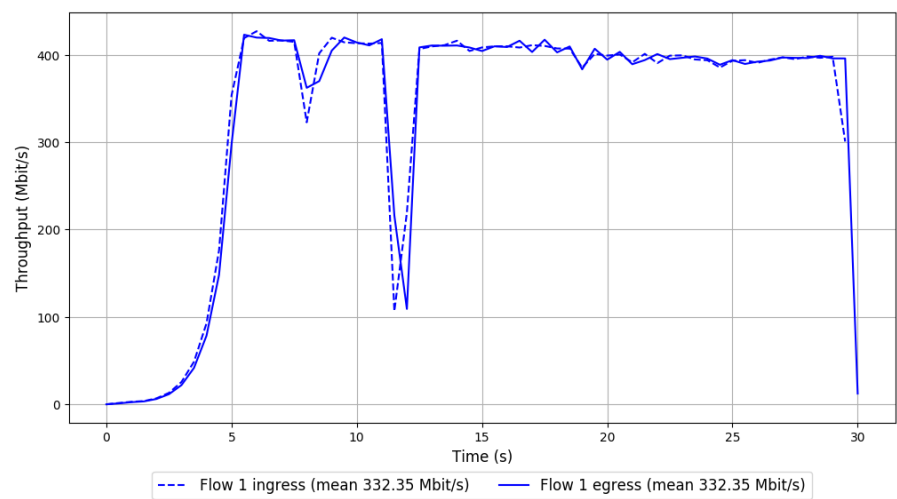
-- Flow 1:

Average throughput: 332.35 Mbit/s

95th percentile per-packet one-way delay: 135.397 ms

Loss rate: 0.00%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-04-10 23:04:33

End at: 2018-04-10 23:05:03

Below is generated by plot.py at 2018-04-11 02:57:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 347.38 Mbit/s

95th percentile per-packet one-way delay: 135.307 ms

Loss rate: 0.00%

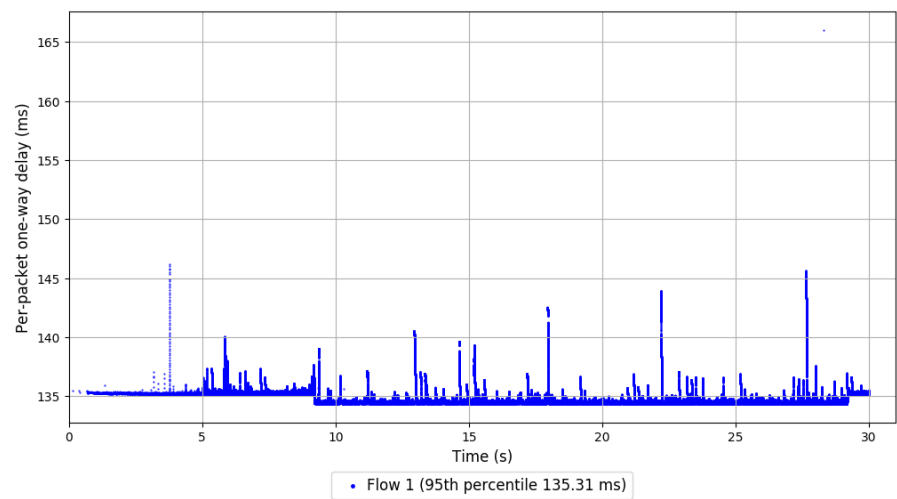
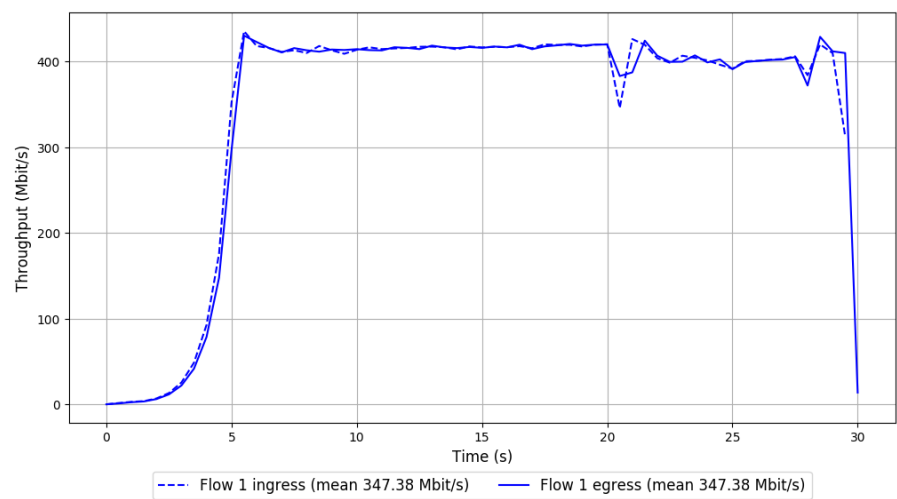
-- Flow 1:

Average throughput: 347.38 Mbit/s

95th percentile per-packet one-way delay: 135.307 ms

Loss rate: 0.00%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-04-10 23:20:46

End at: 2018-04-10 23:21:16

Below is generated by plot.py at 2018-04-11 02:57:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 342.29 Mbit/s

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

Loss rate: 0.00%

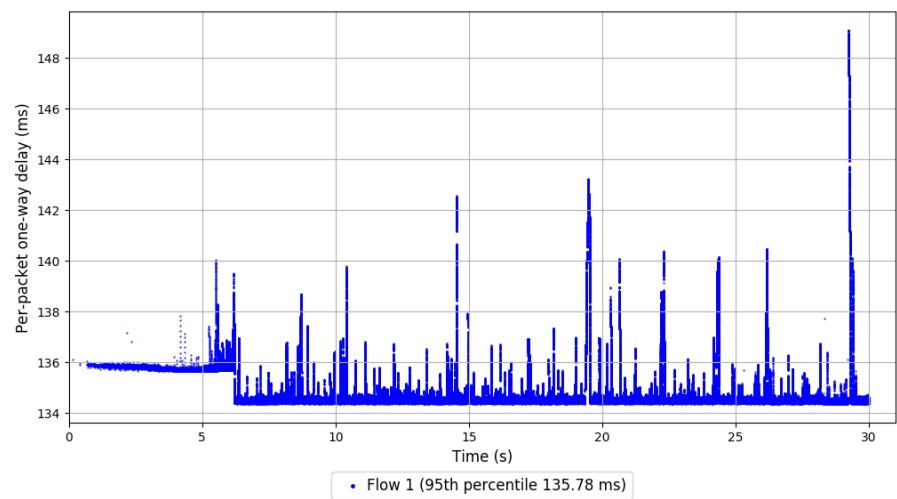
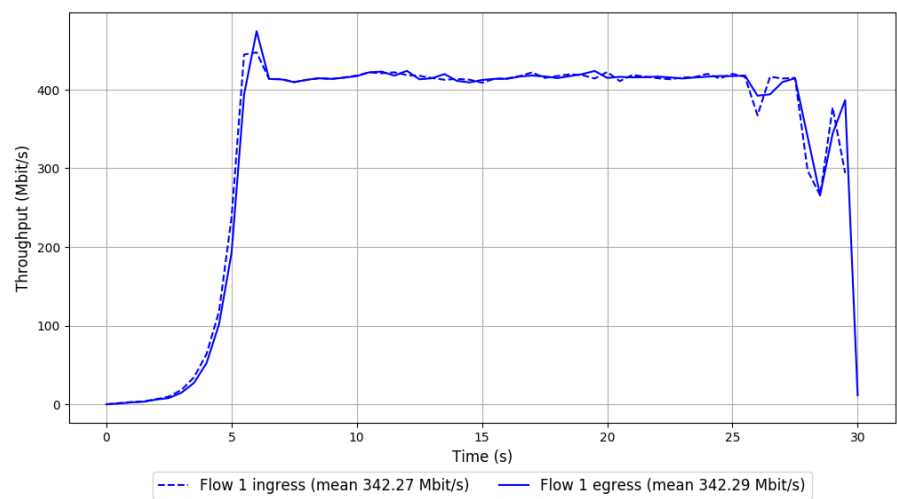
-- Flow 1:

Average throughput: 342.29 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-04-10 23:36:43

End at: 2018-04-10 23:37:13

Below is generated by plot.py at 2018-04-11 02:58:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 350.16 Mbit/s

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

Loss rate: 0.00%

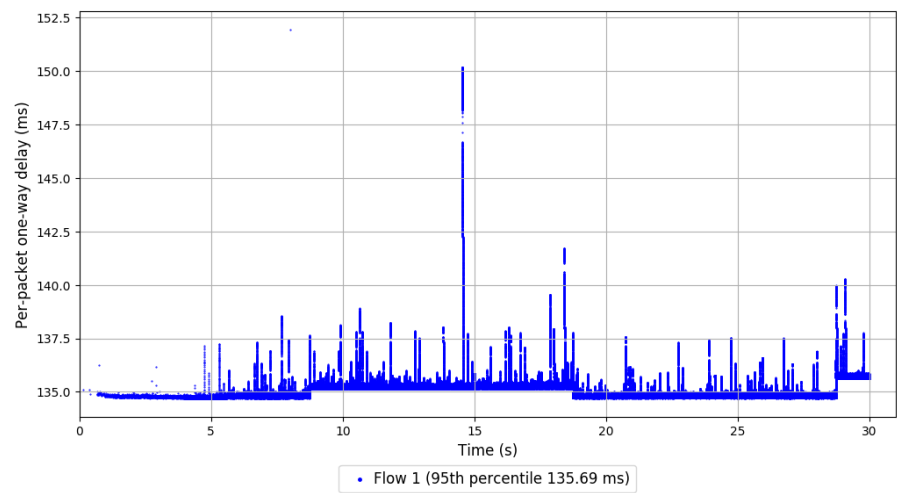
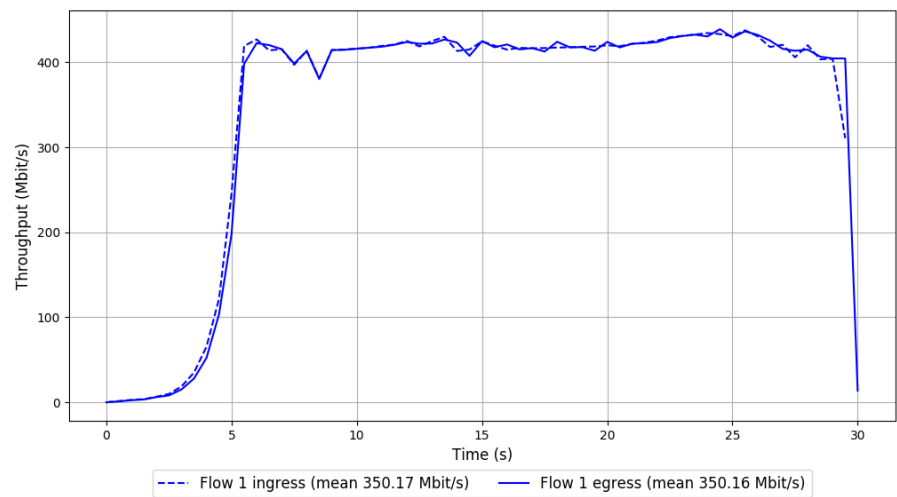
-- Flow 1:

Average throughput: 350.16 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-04-10 23:52:43

End at: 2018-04-10 23:53:13

Below is generated by plot.py at 2018-04-11 02:58:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 159.59 Mbit/s

95th percentile per-packet one-way delay: 136.459 ms

Loss rate: 0.00%

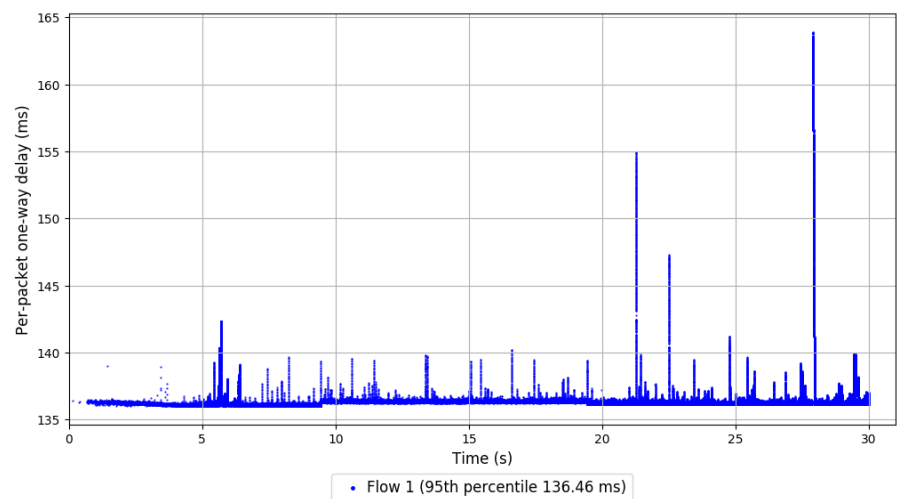
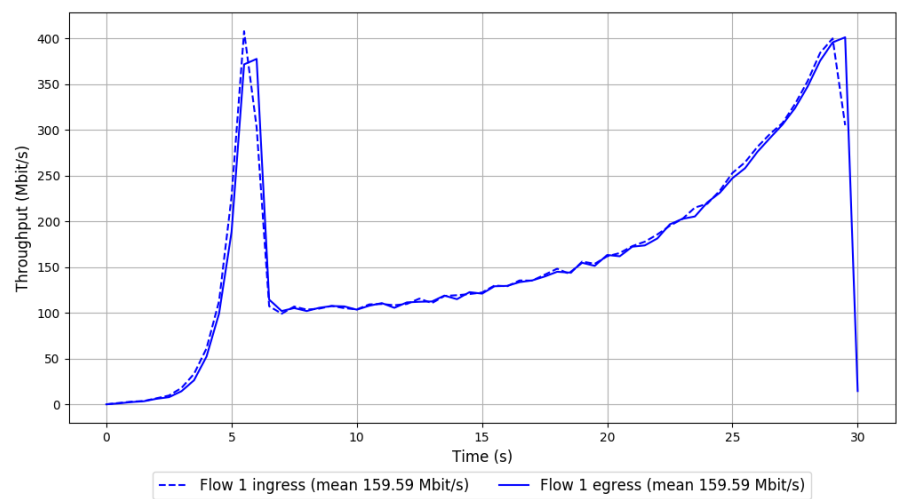
-- Flow 1:

Average throughput: 159.59 Mbit/s

95th percentile per-packet one-way delay: 136.459 ms

Loss rate: 0.00%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-04-11 00:08:27

End at: 2018-04-11 00:08:57

Below is generated by plot.py at 2018-04-11 02:58:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 353.03 Mbit/s

95th percentile per-packet one-way delay: 181.603 ms

Loss rate: 0.28%

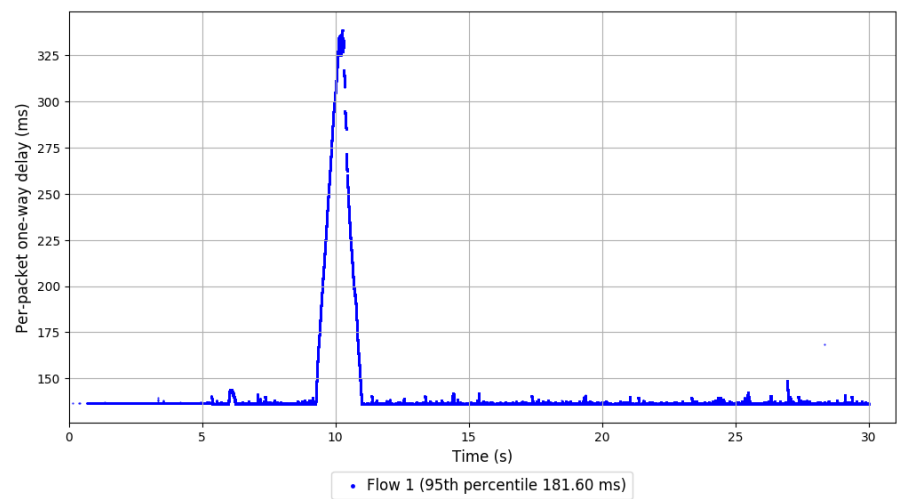
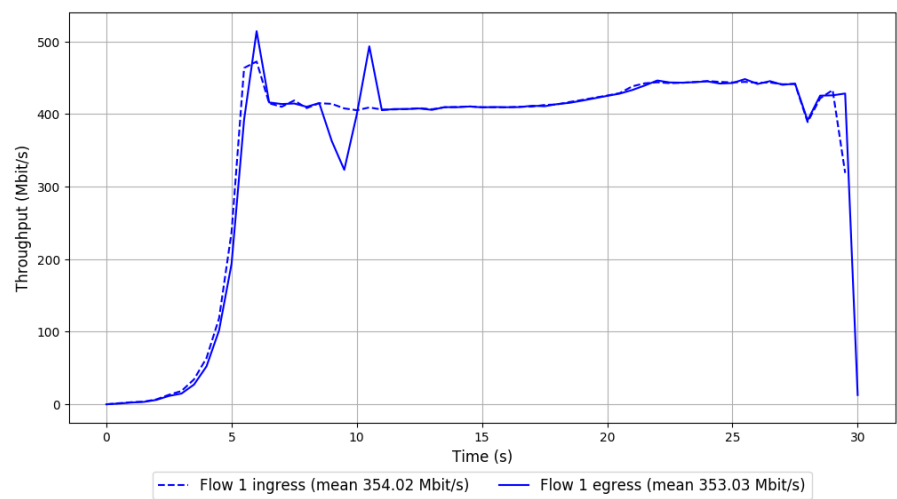
-- Flow 1:

Average throughput: 353.03 Mbit/s

95th percentile per-packet one-way delay: 181.603 ms

Loss rate: 0.28%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-04-11 00:24:15

End at: 2018-04-11 00:24:45

Below is generated by plot.py at 2018-04-11 02:58:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 322.15 Mbit/s

95th percentile per-packet one-way delay: 170.416 ms

Loss rate: 0.00%

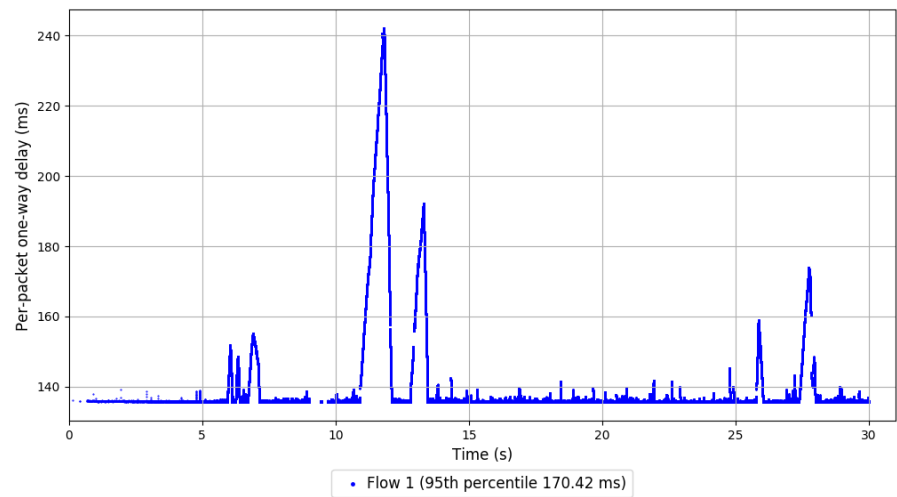
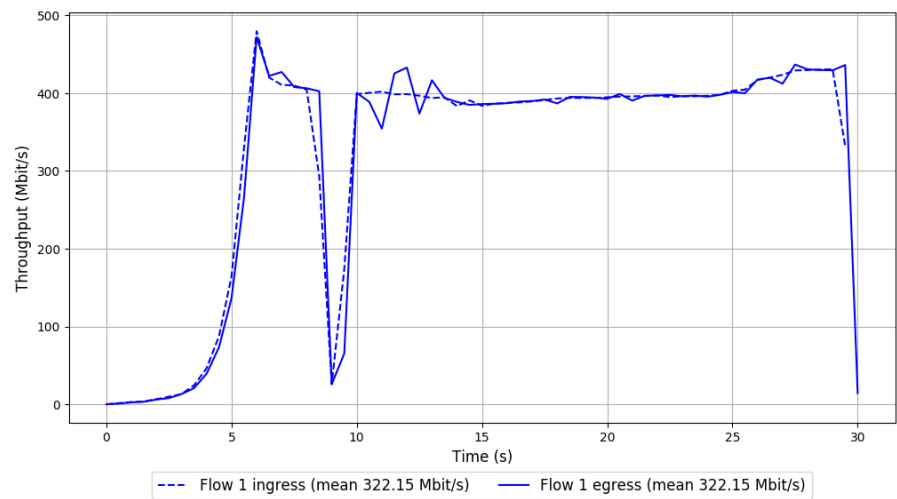
-- Flow 1:

Average throughput: 322.15 Mbit/s

95th percentile per-packet one-way delay: 170.416 ms

Loss rate: 0.00%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-04-11 00:40:11
End at: 2018-04-11 00:40:41

# Below is generated by plot.py at 2018-04-11 02:58:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 318.44 Mbit/s
95th percentile per-packet one-way delay: 192.078 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 318.44 Mbit/s
95th percentile per-packet one-way delay: 192.078 ms
Loss rate: 0.00%
```

Run 10: Report of Vivace-LTE — Data Link

