

Pantheon Report

Generated at 2018-03-27 18:54:37 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

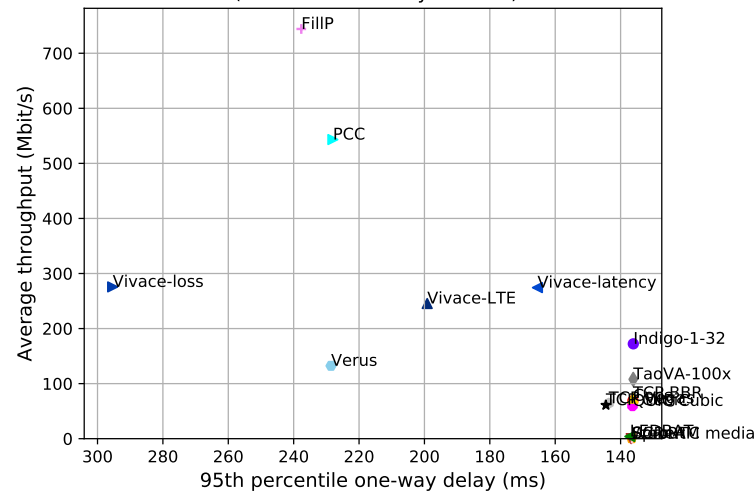
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

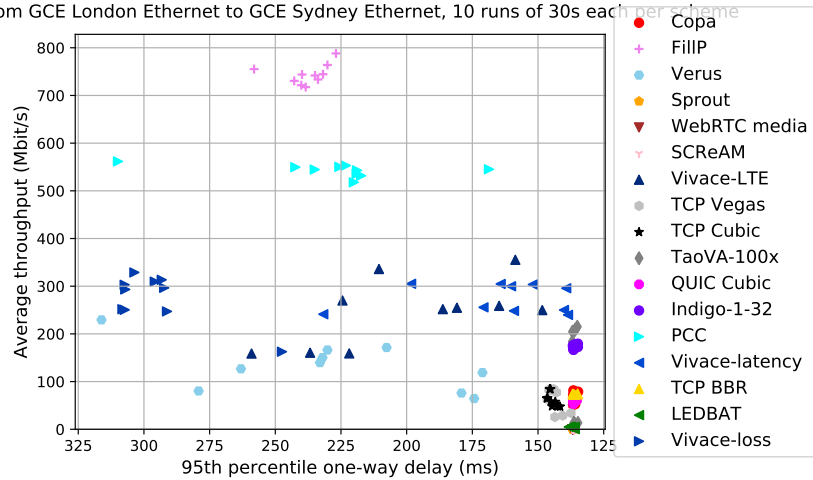
Git summary:

```
branch: master @ 503f51fe03f703a4c0a826a0792a4fead3e7d1b0
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
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 @ f1a14bffe749737437f61b1eae30b267cde681
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 London Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	73.63	136.21	1.01
TCP Cubic	10	60.93	144.50	1.17
LEDBAT	10	4.00	137.19	1.97
PCC	10	543.27	227.99	2.62
QUIC Cubic	10	59.60	136.37	1.24
SCReAM	10	0.22	136.52	0.89
WebRTC media	10	0.06	136.76	0.00
Sprout	10	0.41	136.62	0.70
TaoVA-100x	10	107.81	136.13	0.94
TCP Vegas	10	64.35	143.62	0.89
Verus	10	132.33	228.58	1.58
Copa	10	68.95	136.23	0.81
FillP	10	744.09	237.67	11.90
Indigo-1-32	10	172.27	136.11	0.87
Vivace-latency	10	274.38	165.44	1.34
Vivace-loss	10	275.66	295.36	4.42
Vivace-LTE	10	245.53	199.15	1.97

Run 1: Statistics of TCP BBR

Start at: 2018-03-27 12:14:32

End at: 2018-03-27 12:15:02

Below is generated by plot.py at 2018-03-27 17:33:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.82 Mbit/s

95th percentile per-packet one-way delay: 136.519 ms

Loss rate: 1.08%

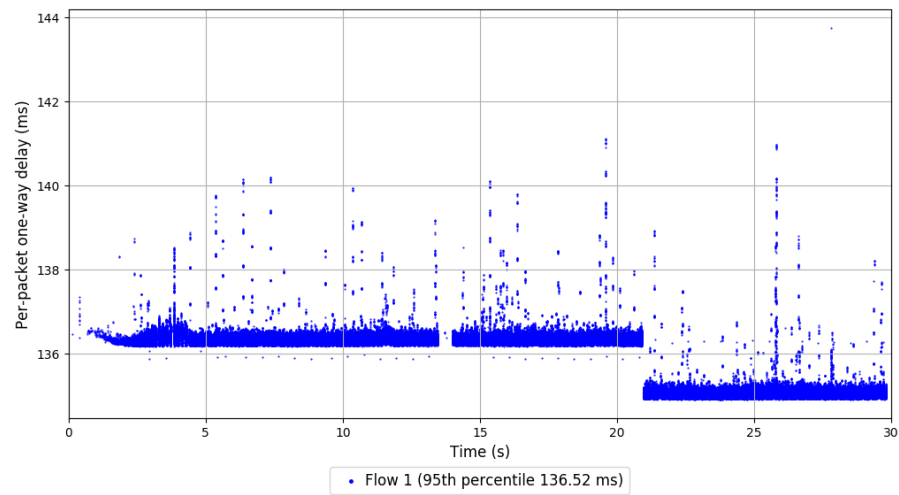
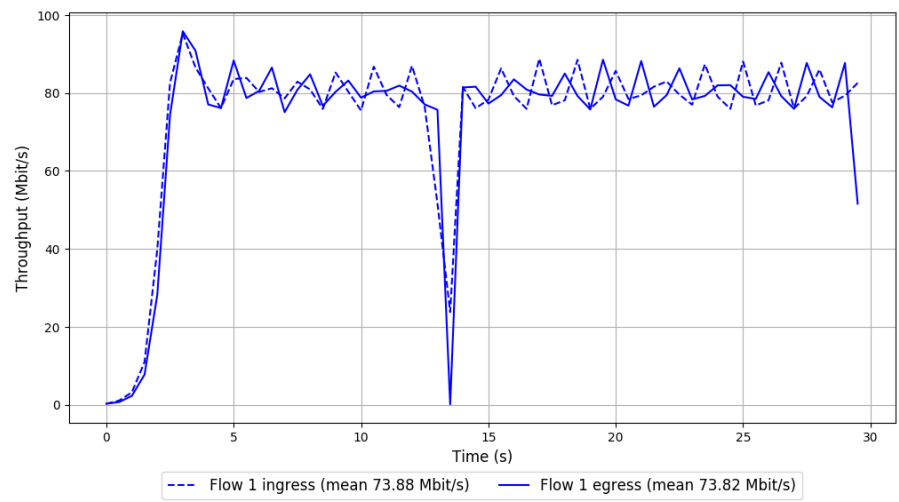
-- Flow 1:

Average throughput: 73.82 Mbit/s

95th percentile per-packet one-way delay: 136.519 ms

Loss rate: 1.08%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-03-27 12:30:06

End at: 2018-03-27 12:30:36

Below is generated by plot.py at 2018-03-27 17:33:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.76 Mbit/s

95th percentile per-packet one-way delay: 136.550 ms

Loss rate: 1.05%

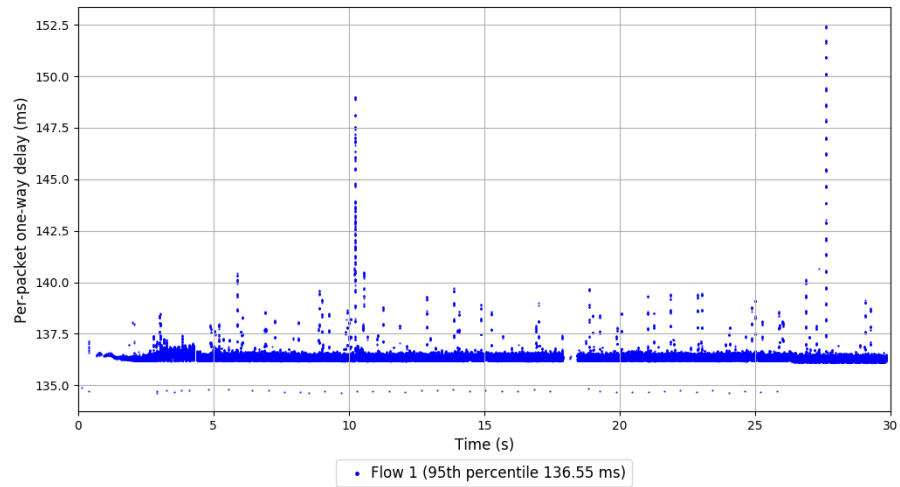
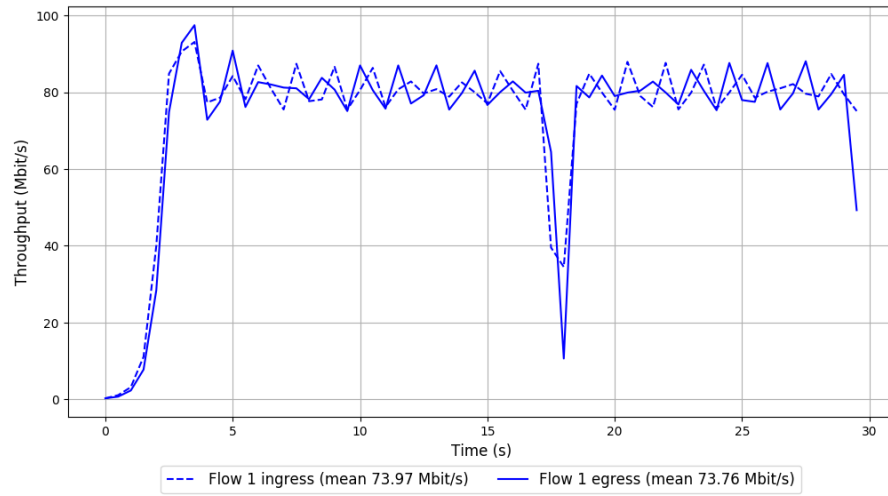
-- Flow 1:

Average throughput: 73.76 Mbit/s

95th percentile per-packet one-way delay: 136.550 ms

Loss rate: 1.05%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-03-27 12:45:50

End at: 2018-03-27 12:46:20

Below is generated by plot.py at 2018-03-27 17:33:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.10 Mbit/s

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

Loss rate: 0.96%

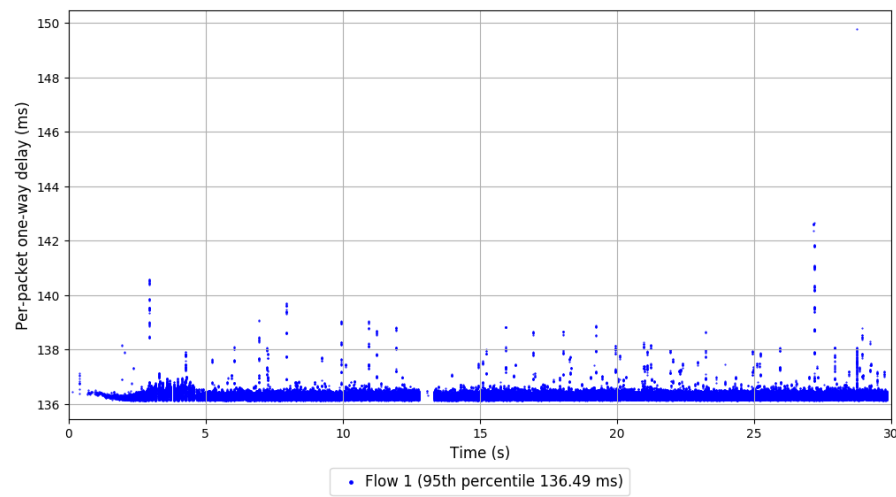
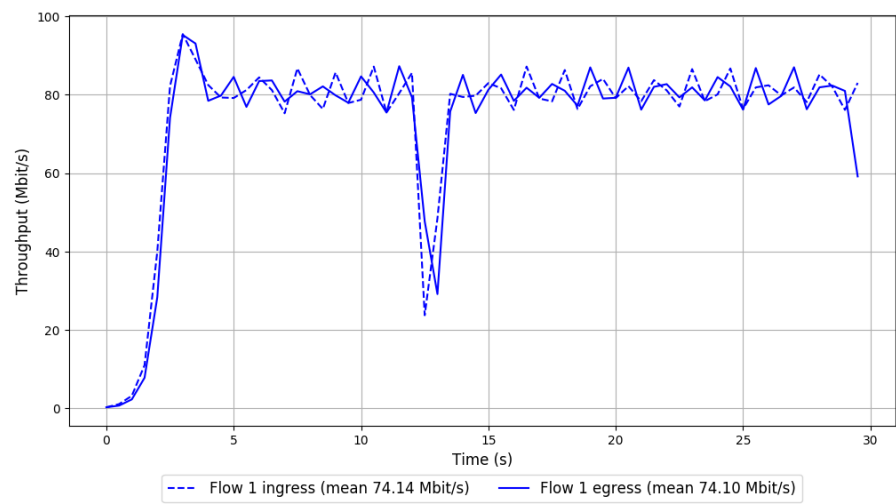
-- Flow 1:

Average throughput: 74.10 Mbit/s

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

Loss rate: 0.96%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-03-27 13:01:27

End at: 2018-03-27 13:01:57

Below is generated by plot.py at 2018-03-27 17:33:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.57 Mbit/s

95th percentile per-packet one-way delay: 136.580 ms

Loss rate: 0.98%

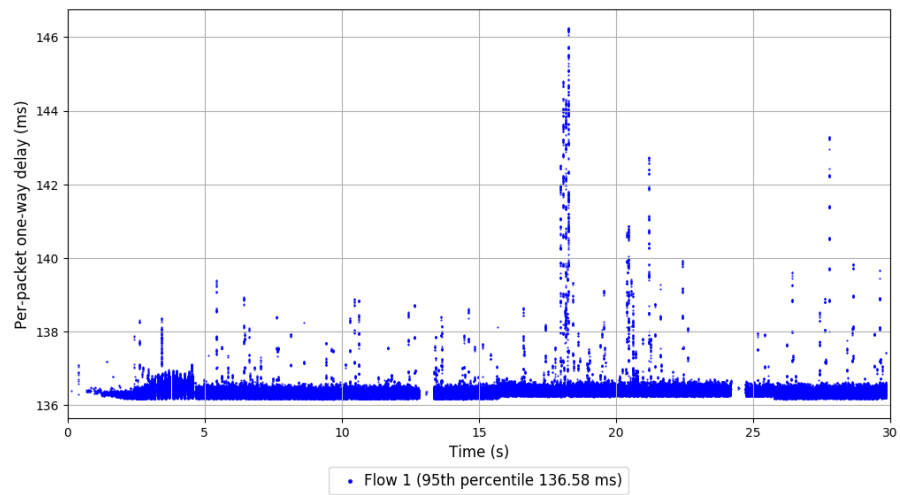
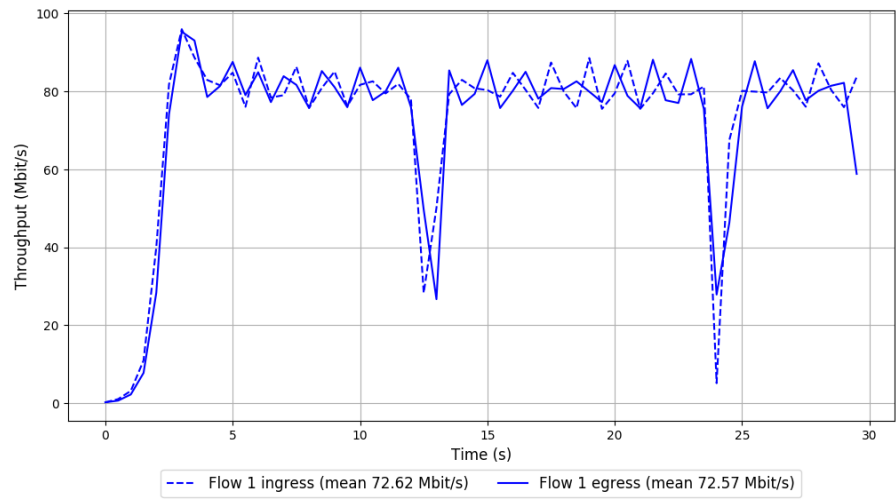
-- Flow 1:

Average throughput: 72.57 Mbit/s

95th percentile per-packet one-way delay: 136.580 ms

Loss rate: 0.98%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-03-27 13:17:00

End at: 2018-03-27 13:17:30

Below is generated by plot.py at 2018-03-27 17:33:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.91 Mbit/s

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

Loss rate: 0.96%

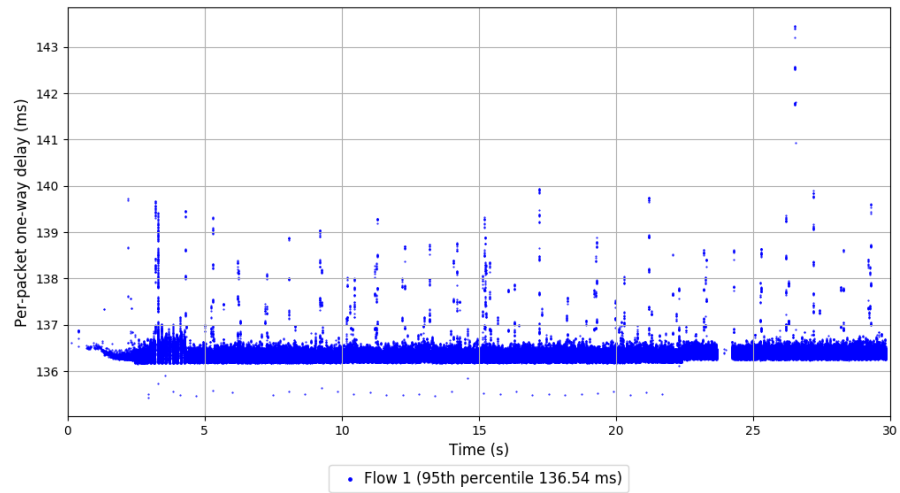
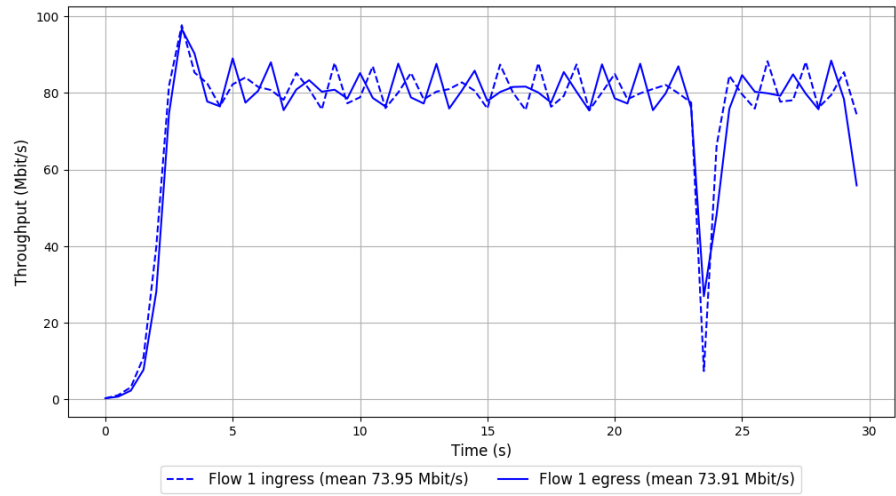
-- Flow 1:

Average throughput: 73.91 Mbit/s

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

Loss rate: 0.96%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-03-27 13:32:56

End at: 2018-03-27 13:33:27

Below is generated by plot.py at 2018-03-27 17:33:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.04 Mbit/s

95th percentile per-packet one-way delay: 134.889 ms

Loss rate: 1.10%

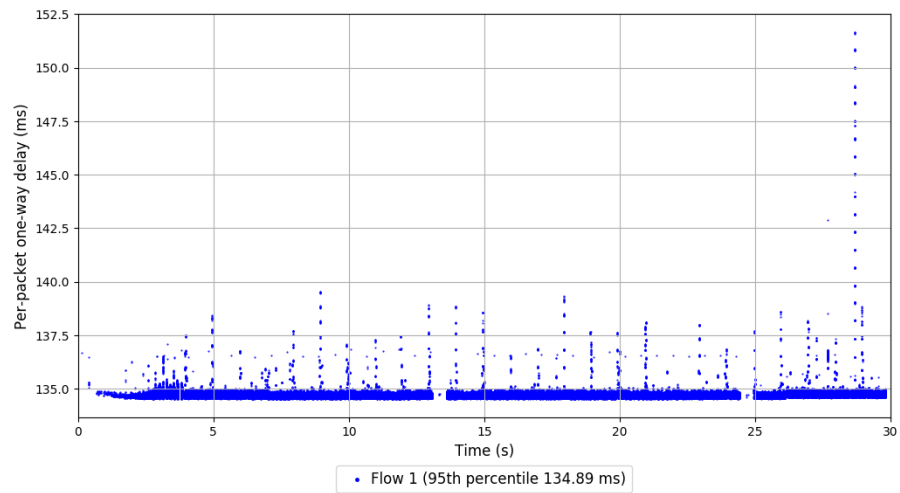
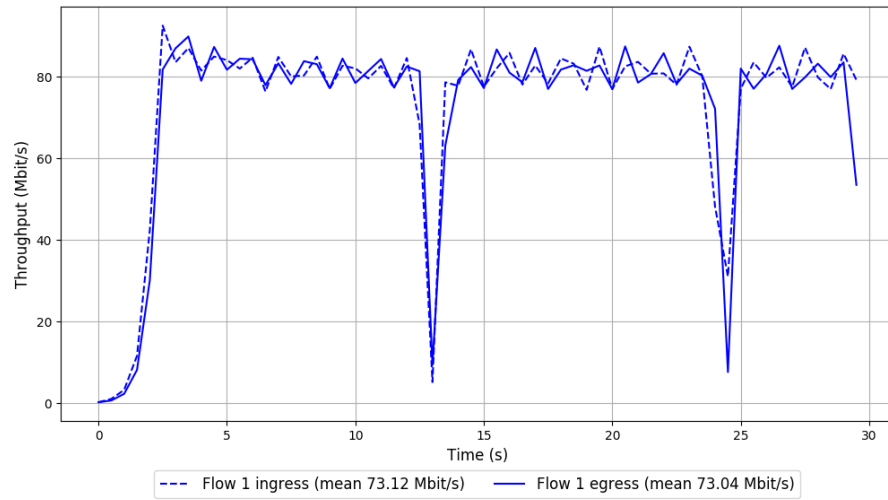
-- Flow 1:

Average throughput: 73.04 Mbit/s

95th percentile per-packet one-way delay: 134.889 ms

Loss rate: 1.10%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-03-27 13:49:08

End at: 2018-03-27 13:49:38

Below is generated by plot.py at 2018-03-27 17:33:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.85 Mbit/s

95th percentile per-packet one-way delay: 134.940 ms

Loss rate: 0.95%

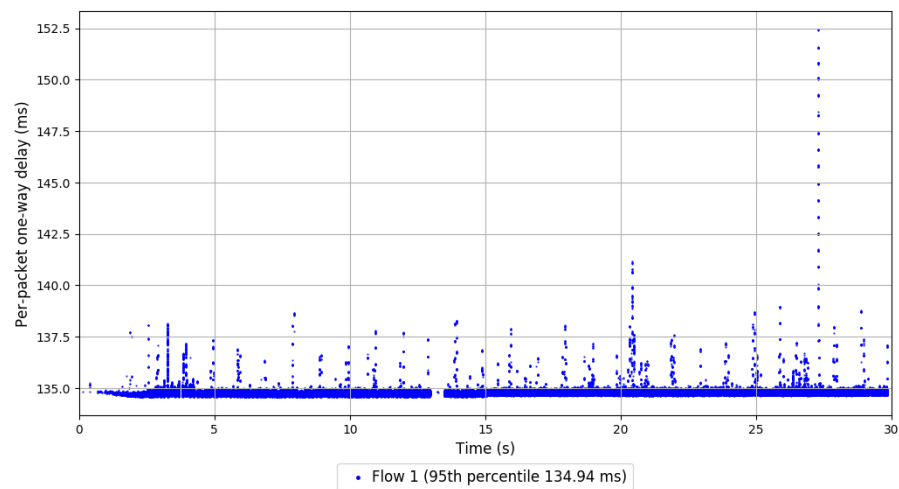
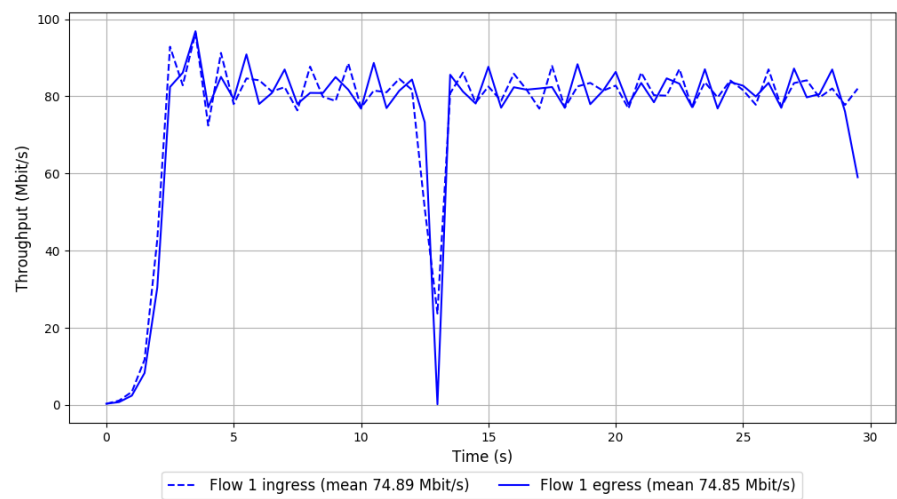
-- Flow 1:

Average throughput: 74.85 Mbit/s

95th percentile per-packet one-way delay: 134.940 ms

Loss rate: 0.95%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-03-27 14:04:27

End at: 2018-03-27 14:04:57

Below is generated by plot.py at 2018-03-27 17:33:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.93 Mbit/s

95th percentile per-packet one-way delay: 136.747 ms

Loss rate: 0.97%

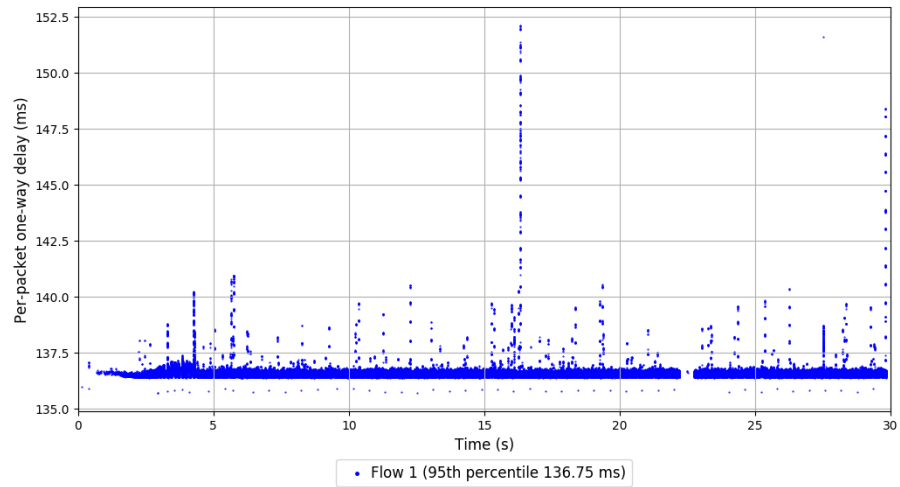
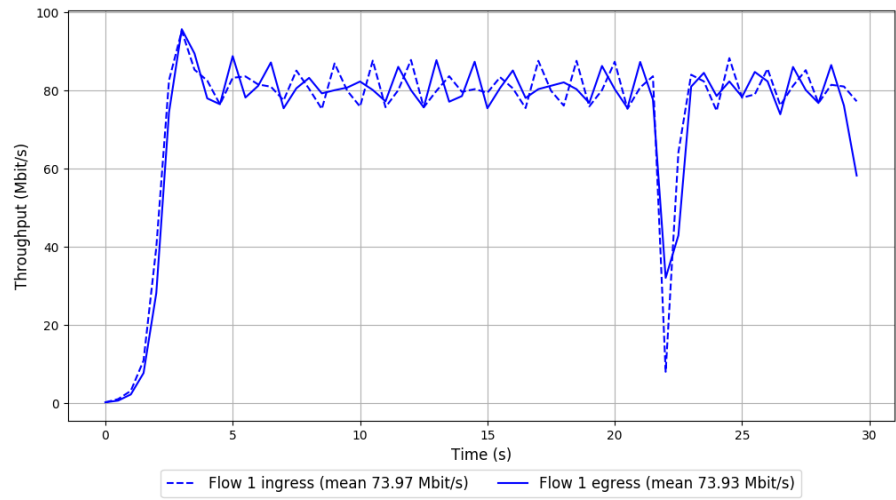
-- Flow 1:

Average throughput: 73.93 Mbit/s

95th percentile per-packet one-way delay: 136.747 ms

Loss rate: 0.97%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-03-27 14:20:24

End at: 2018-03-27 14:20:54

Below is generated by plot.py at 2018-03-27 17:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.12 Mbit/s

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

Loss rate: 1.00%

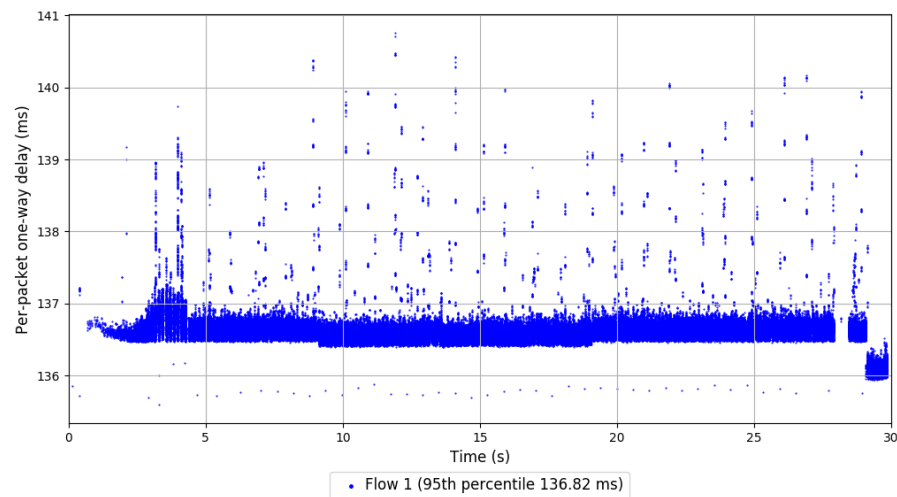
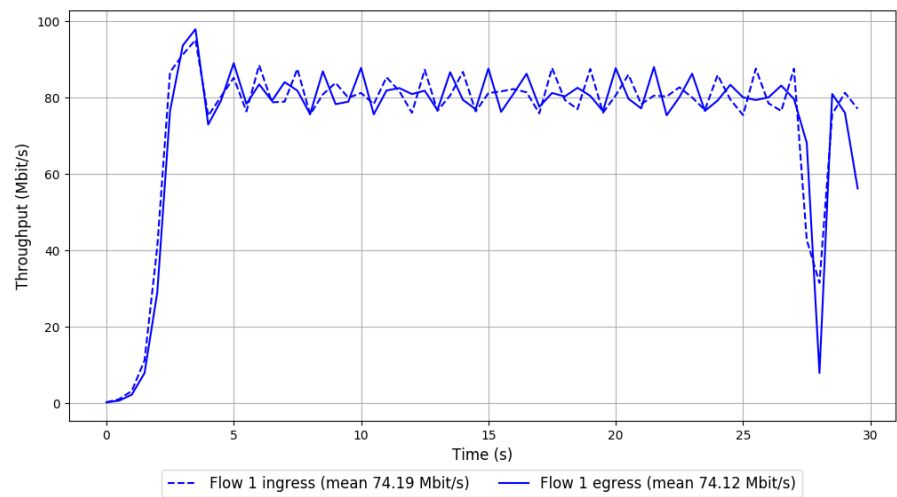
-- Flow 1:

Average throughput: 74.12 Mbit/s

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

Loss rate: 1.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-03-27 14:36:17

End at: 2018-03-27 14:36:47

Below is generated by plot.py at 2018-03-27 17:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.22 Mbit/s

95th percentile per-packet one-way delay: 135.994 ms

Loss rate: 1.09%

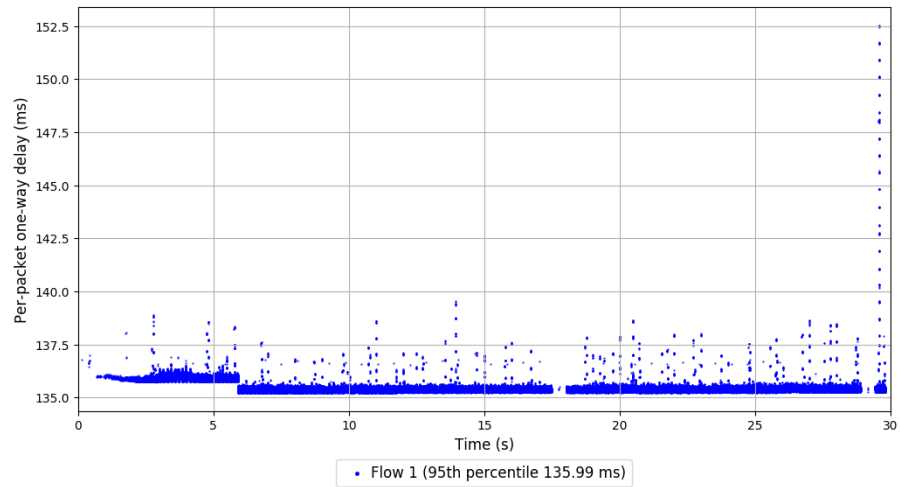
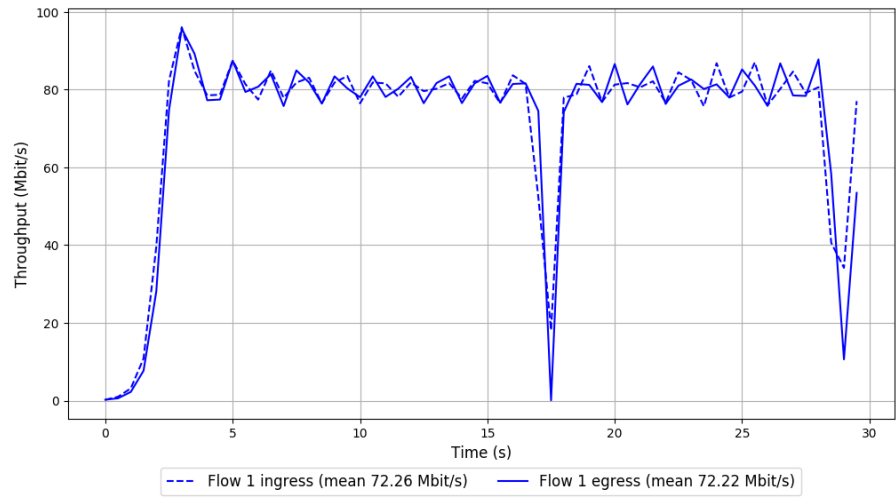
-- Flow 1:

Average throughput: 72.22 Mbit/s

95th percentile per-packet one-way delay: 135.994 ms

Loss rate: 1.09%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-03-27 12:13:45

End at: 2018-03-27 12:14:15

Below is generated by plot.py at 2018-03-27 17:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.81 Mbit/s

95th percentile per-packet one-way delay: 145.101 ms

Loss rate: 0.49%

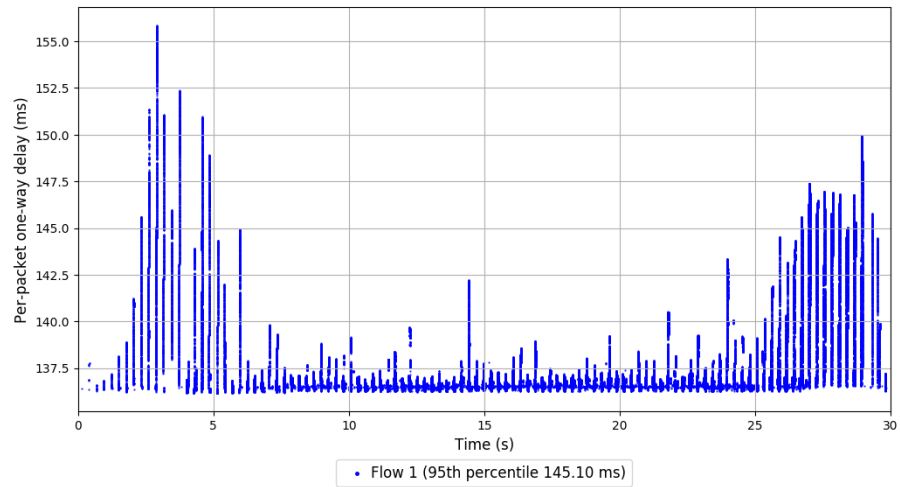
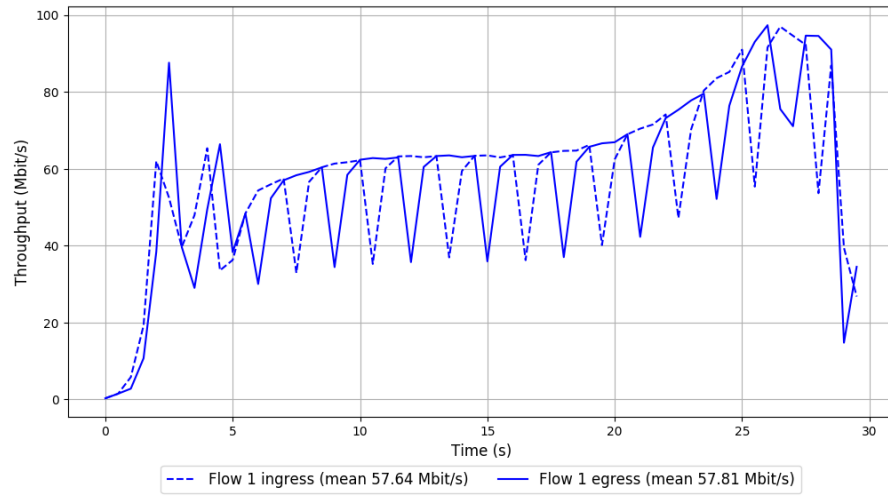
-- Flow 1:

Average throughput: 57.81 Mbit/s

95th percentile per-packet one-way delay: 145.101 ms

Loss rate: 0.49%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-03-27 12:29:19

End at: 2018-03-27 12:29:49

Below is generated by plot.py at 2018-03-27 17:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.17 Mbit/s

95th percentile per-packet one-way delay: 146.363 ms

Loss rate: 1.20%

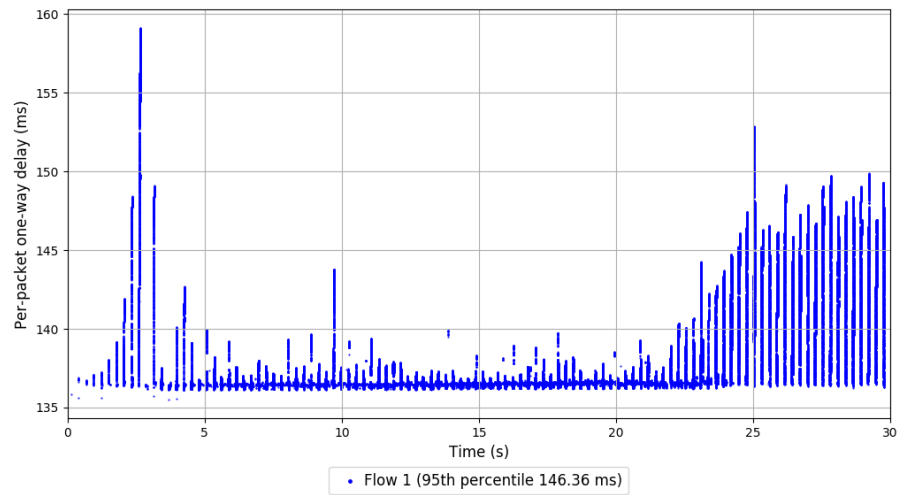
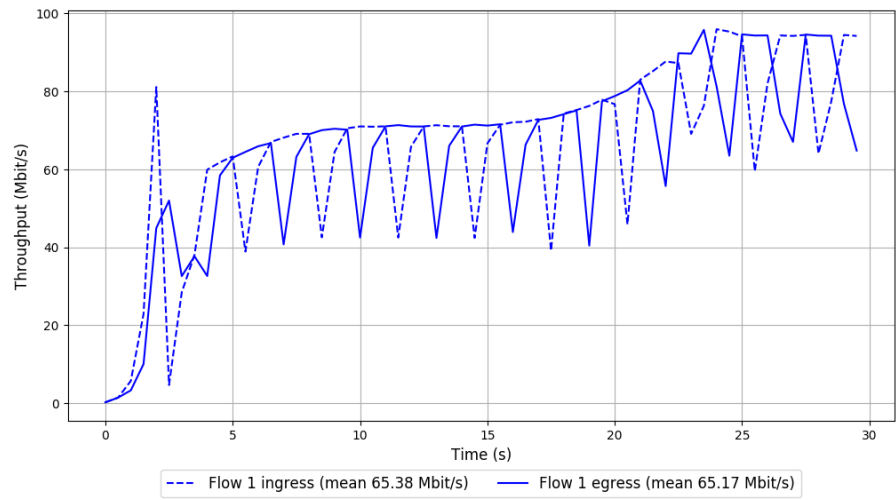
-- Flow 1:

Average throughput: 65.17 Mbit/s

95th percentile per-packet one-way delay: 146.363 ms

Loss rate: 1.20%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-03-27 12:45:02

End at: 2018-03-27 12:45:32

Below is generated by plot.py at 2018-03-27 17:35:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.24 Mbit/s

95th percentile per-packet one-way delay: 145.249 ms

Loss rate: 0.98%

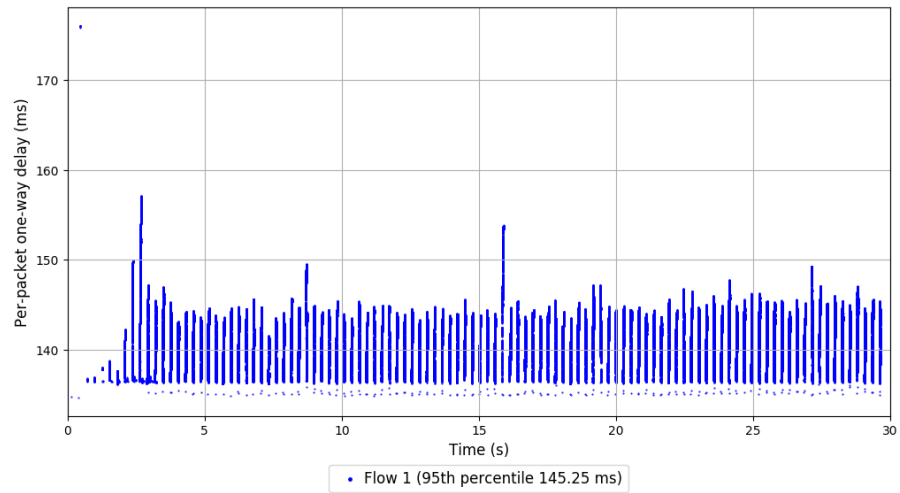
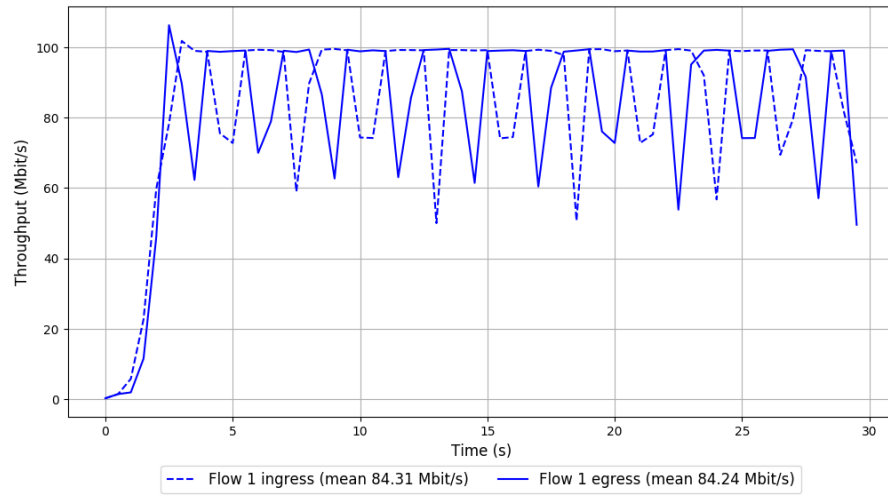
-- Flow 1:

Average throughput: 84.24 Mbit/s

95th percentile per-packet one-way delay: 145.249 ms

Loss rate: 0.98%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-03-27 13:00:39

End at: 2018-03-27 13:01:09

Below is generated by plot.py at 2018-03-27 17:35:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.08 Mbit/s

95th percentile per-packet one-way delay: 145.555 ms

Loss rate: 0.99%

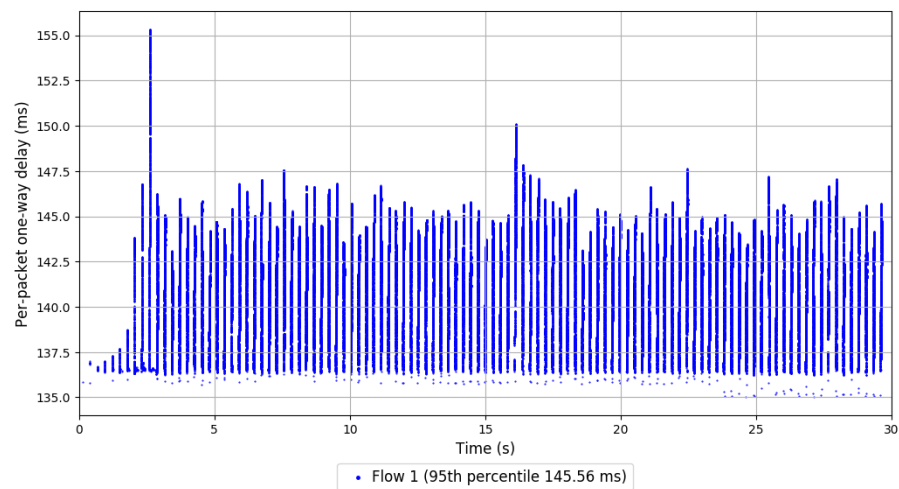
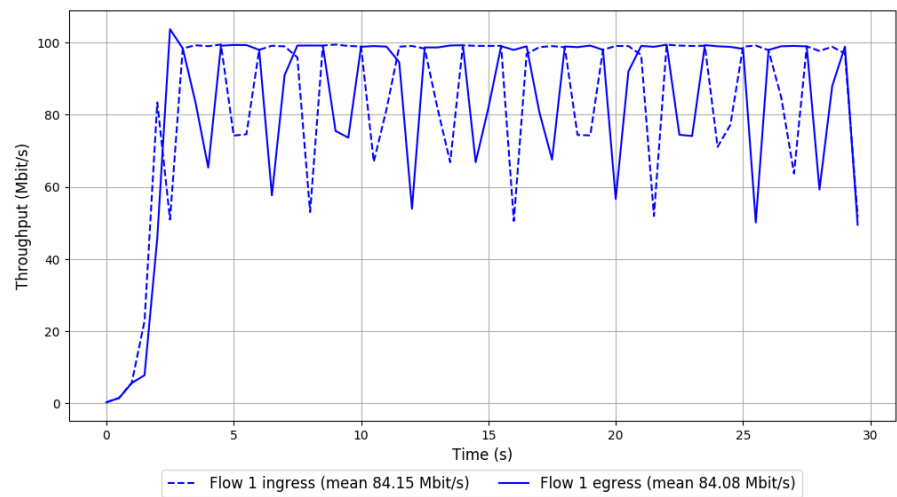
-- Flow 1:

Average throughput: 84.08 Mbit/s

95th percentile per-packet one-way delay: 145.555 ms

Loss rate: 0.99%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-03-27 13:16:13

End at: 2018-03-27 13:16:43

Below is generated by plot.py at 2018-03-27 17:35:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.66 Mbit/s

95th percentile per-packet one-way delay: 146.627 ms

Loss rate: 1.21%

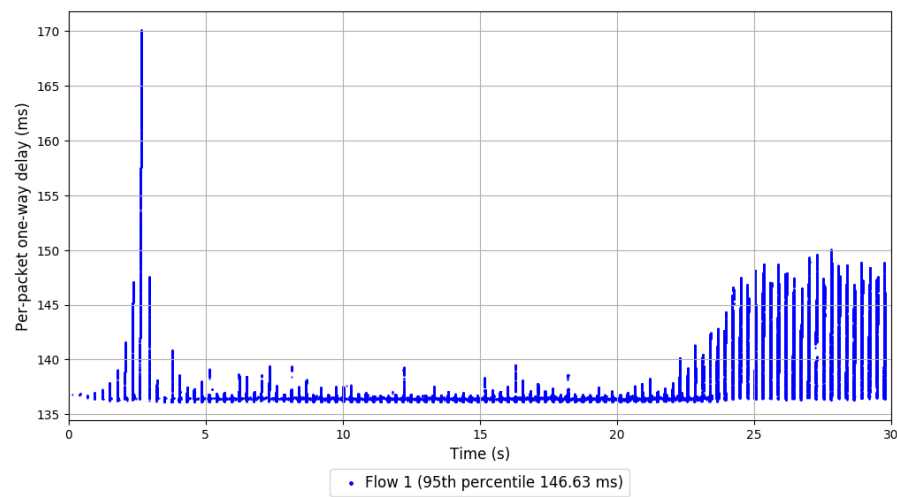
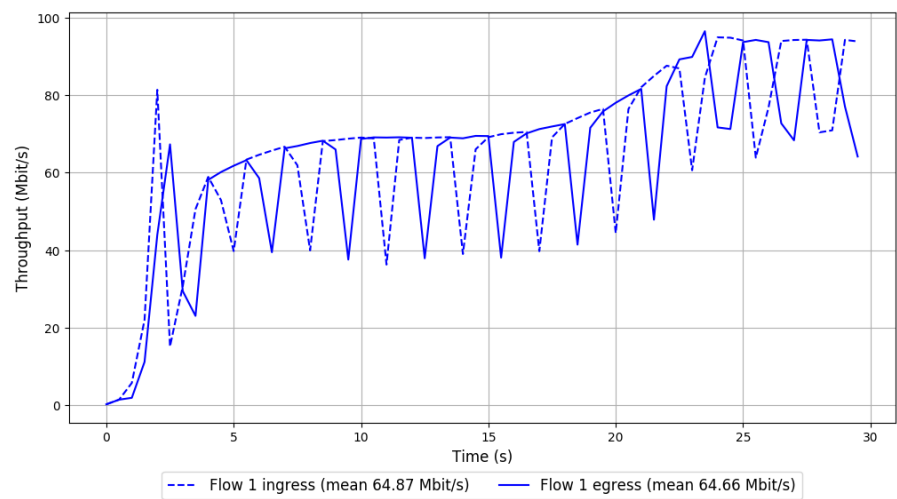
-- Flow 1:

Average throughput: 64.66 Mbit/s

95th percentile per-packet one-way delay: 146.627 ms

Loss rate: 1.21%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-03-27 13:32:10

End at: 2018-03-27 13:32:40

Below is generated by plot.py at 2018-03-27 17:35:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.53 Mbit/s

95th percentile per-packet one-way delay: 141.601 ms

Loss rate: 0.67%

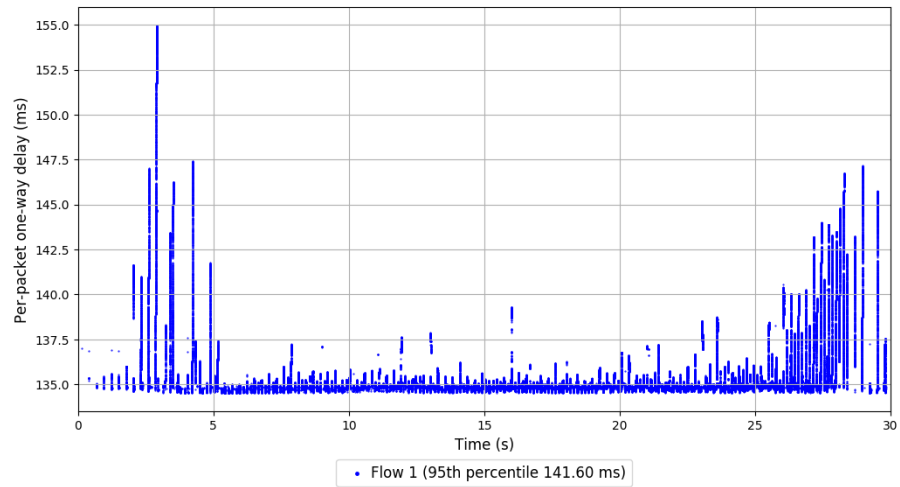
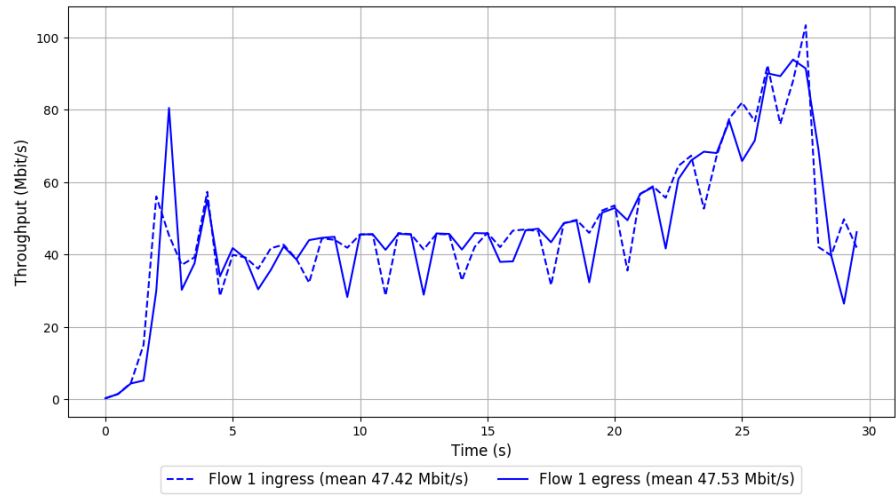
-- Flow 1:

Average throughput: 47.53 Mbit/s

95th percentile per-packet one-way delay: 141.601 ms

Loss rate: 0.67%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-03-27 13:48:22

End at: 2018-03-27 13:48:52

Below is generated by plot.py at 2018-03-27 17:35:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.97 Mbit/s

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

Loss rate: 1.63%

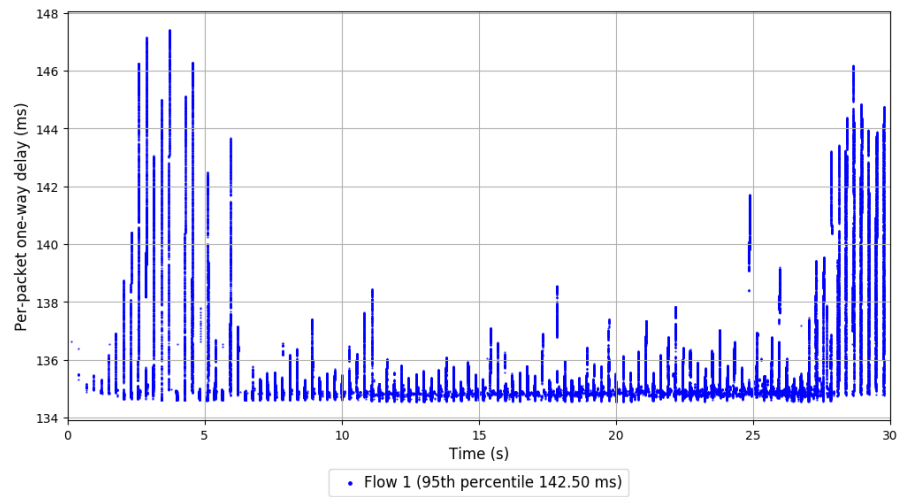
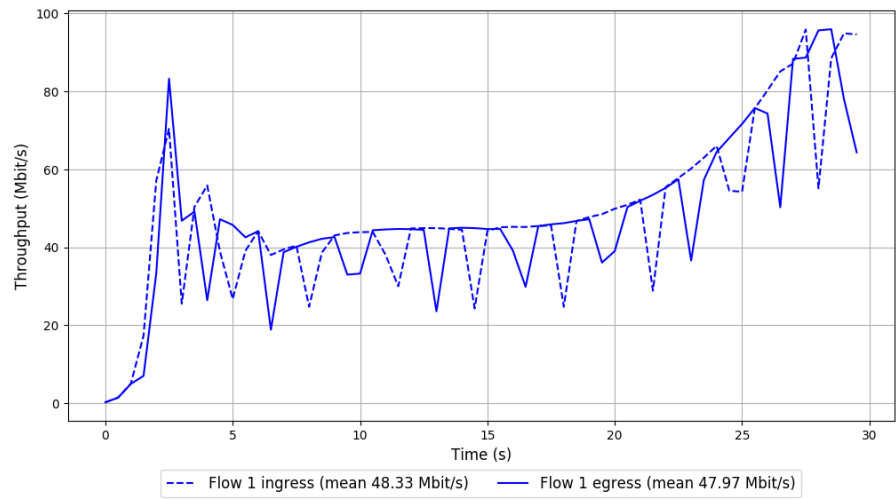
-- Flow 1:

Average throughput: 47.97 Mbit/s

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

Loss rate: 1.63%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-03-27 14:03:41

End at: 2018-03-27 14:04:11

Below is generated by plot.py at 2018-03-27 17:35:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.21 Mbit/s

95th percentile per-packet one-way delay: 144.646 ms

Loss rate: 1.62%

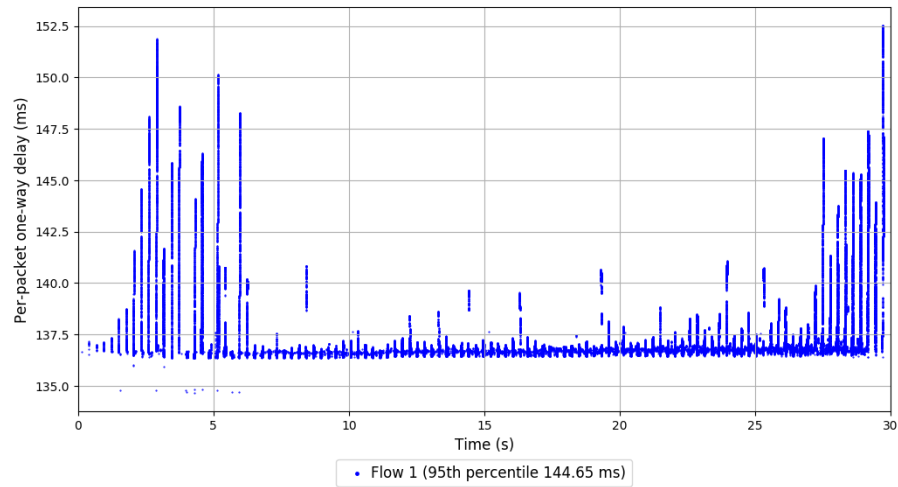
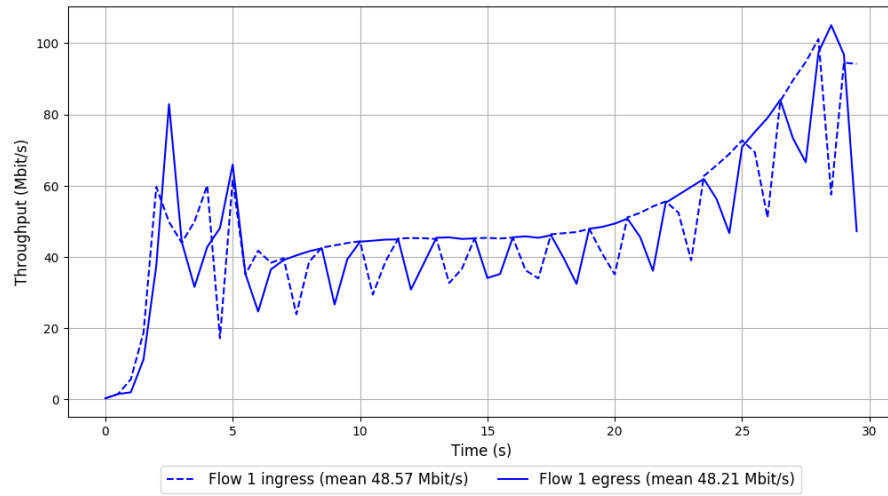
-- Flow 1:

Average throughput: 48.21 Mbit/s

95th percentile per-packet one-way delay: 144.646 ms

Loss rate: 1.62%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-03-27 14:19:37

End at: 2018-03-27 14:20:07

Below is generated by plot.py at 2018-03-27 17:35:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.20 Mbit/s

95th percentile per-packet one-way delay: 143.962 ms

Loss rate: 1.51%

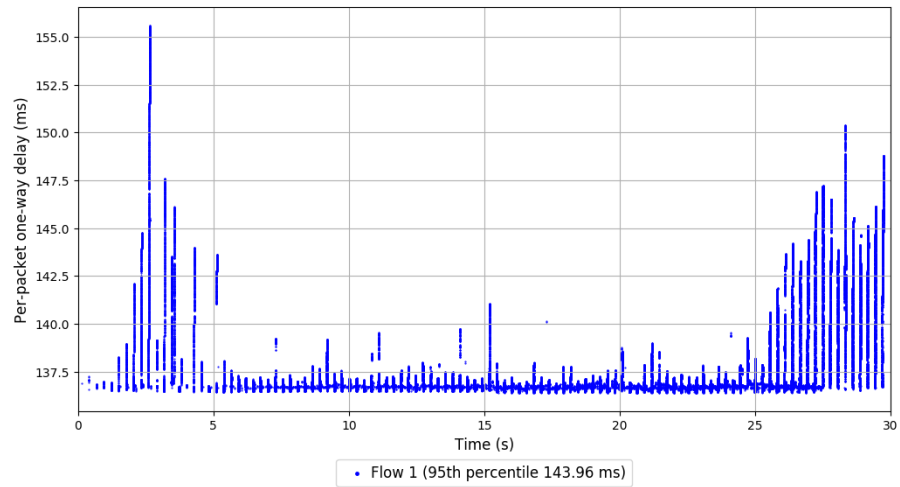
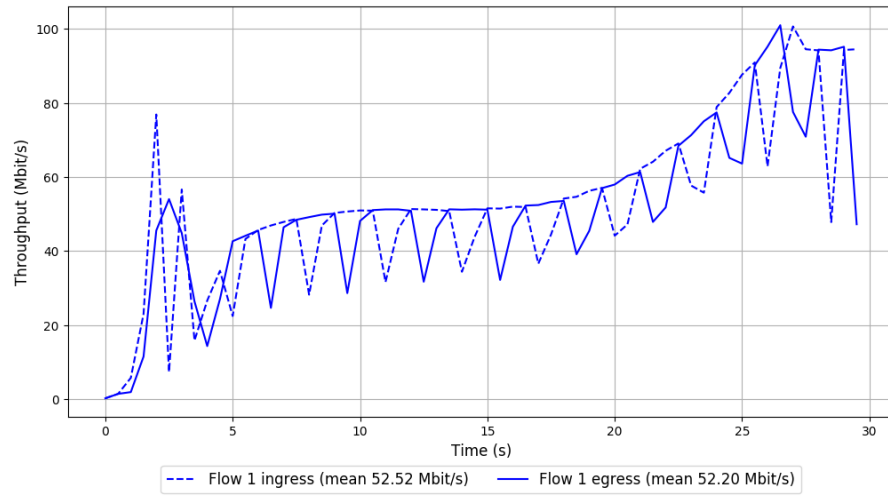
-- Flow 1:

Average throughput: 52.20 Mbit/s

95th percentile per-packet one-way delay: 143.962 ms

Loss rate: 1.51%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-03-27 14:35:30

End at: 2018-03-27 14:36:00

Below is generated by plot.py at 2018-03-27 17:36:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.40 Mbit/s

95th percentile per-packet one-way delay: 143.429 ms

Loss rate: 1.38%

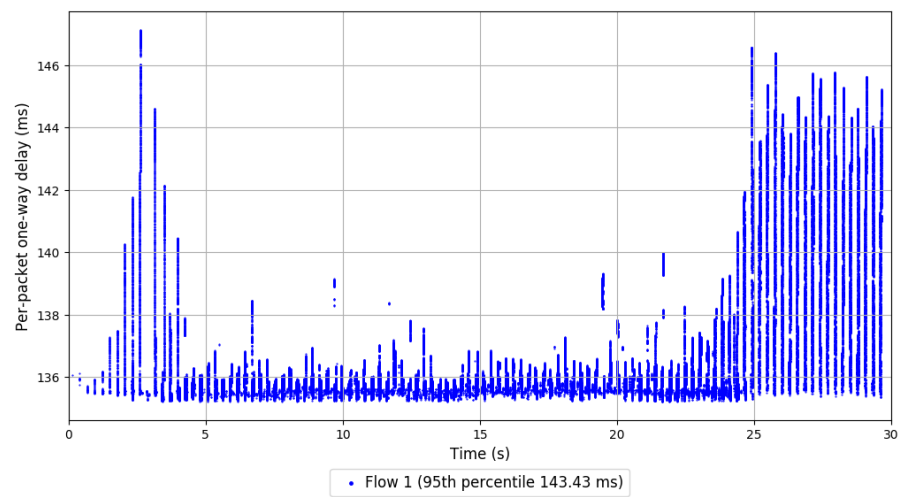
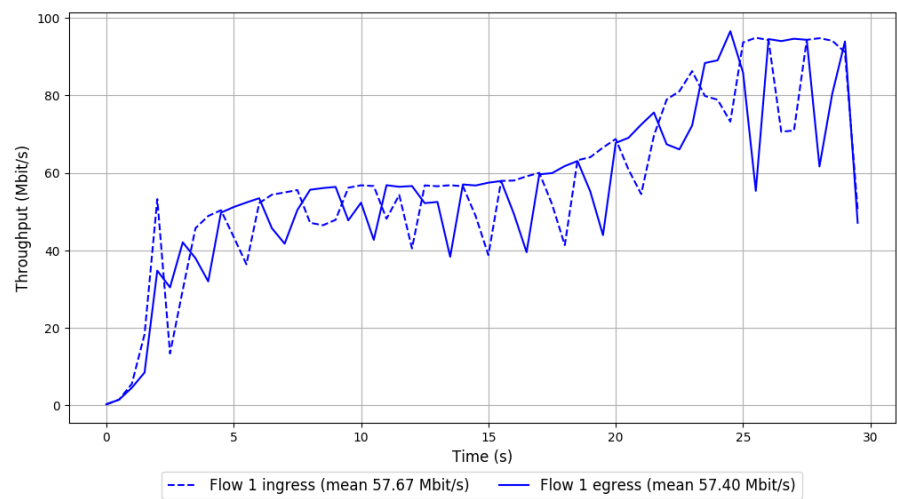
-- Flow 1:

Average throughput: 57.40 Mbit/s

95th percentile per-packet one-way delay: 143.429 ms

Loss rate: 1.38%

Run 10: Report of TCP Cubic — Data Link

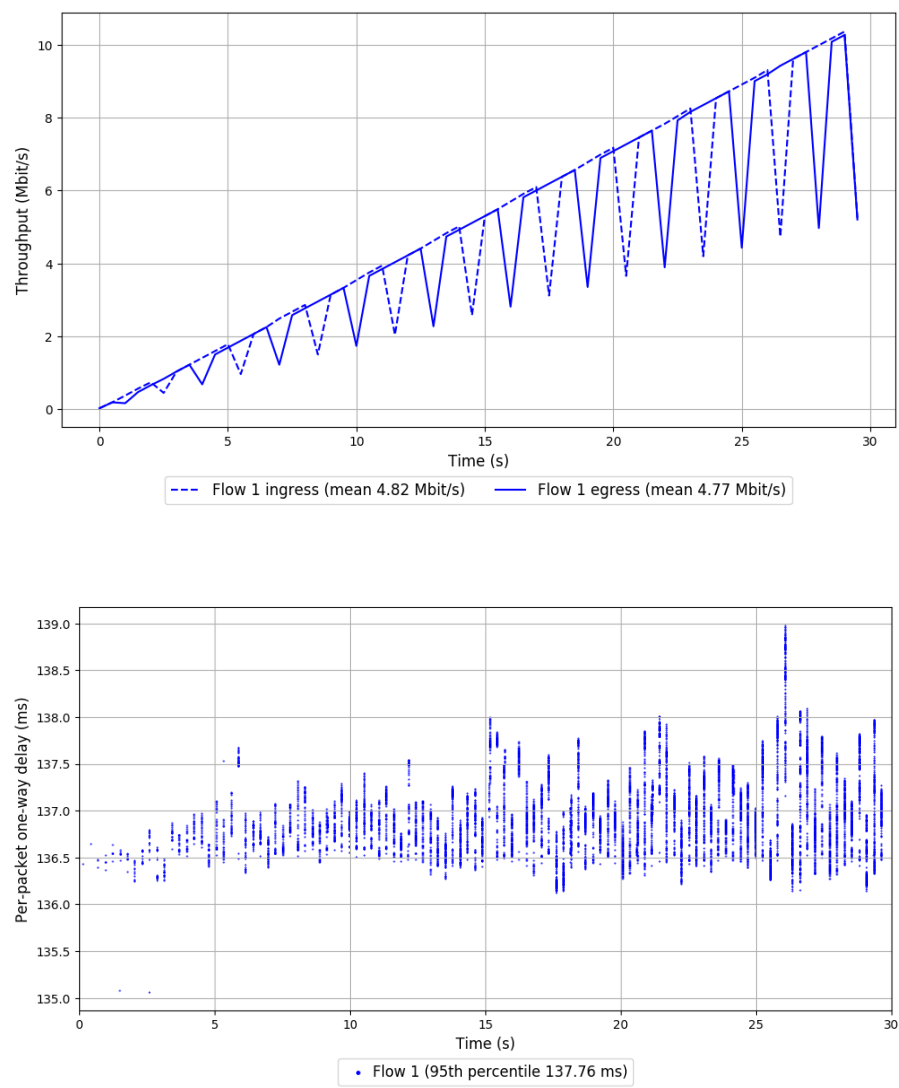


```
Run 1: Statistics of LEDBAT

Start at: 2018-03-27 12:23:21
End at: 2018-03-27 12:23:51

# Below is generated by plot.py at 2018-03-27 17:36:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.77 Mbit/s
95th percentile per-packet one-way delay: 137.763 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 4.77 Mbit/s
95th percentile per-packet one-way delay: 137.763 ms
Loss rate: 1.83%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-03-27 12:38:55

End at: 2018-03-27 12:39:25

Below is generated by plot.py at 2018-03-27 17:36:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.80 Mbit/s

95th percentile per-packet one-way delay: 137.573 ms

Loss rate: 1.83%

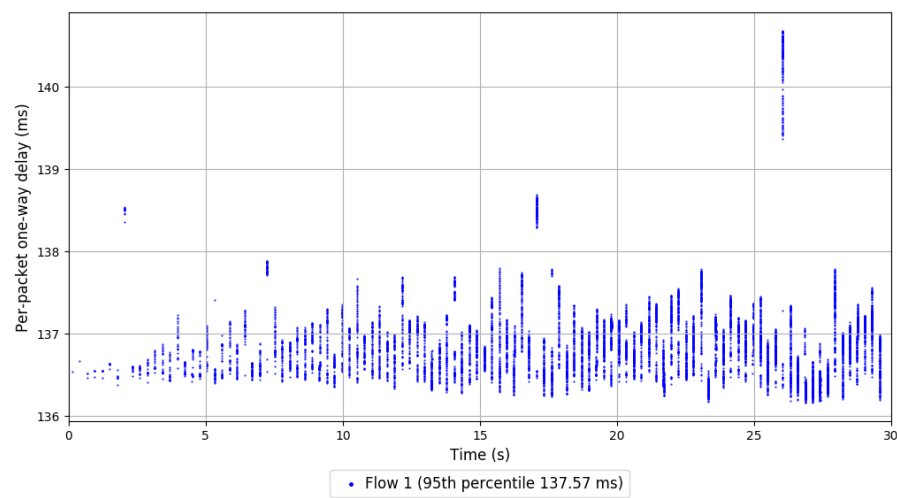
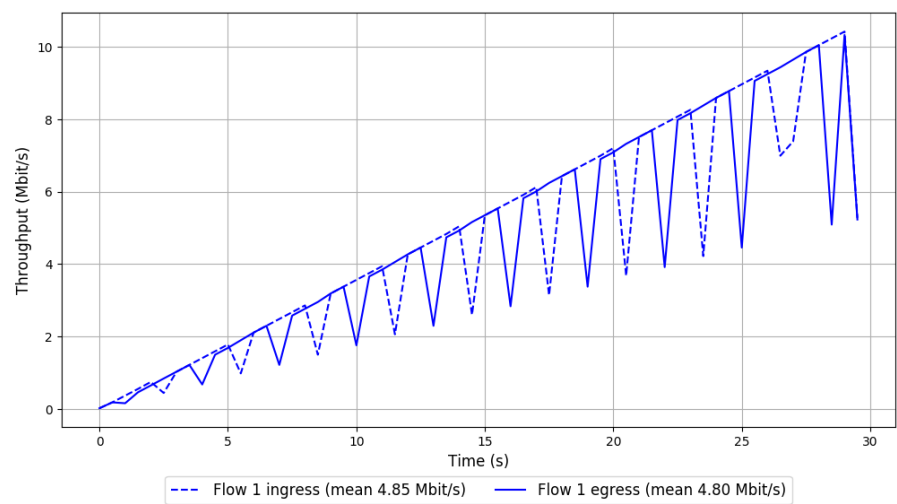
-- Flow 1:

Average throughput: 4.80 Mbit/s

95th percentile per-packet one-way delay: 137.573 ms

Loss rate: 1.83%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-03-27 12:54:37

End at: 2018-03-27 12:55:07

Below is generated by plot.py at 2018-03-27 17:36:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 137.496 ms

Loss rate: 1.96%

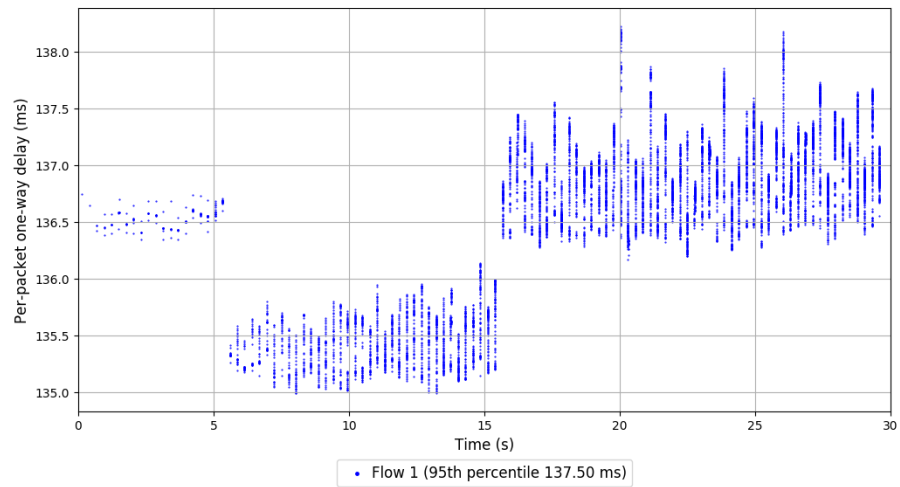
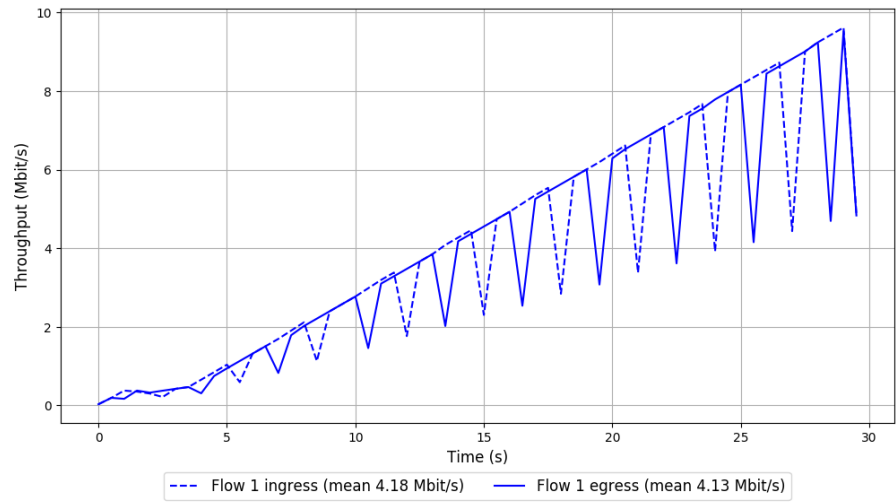
-- Flow 1:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 137.496 ms

Loss rate: 1.96%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-03-27 13:10:18

End at: 2018-03-27 13:10:48

Below is generated by plot.py at 2018-03-27 17:36:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.74 Mbit/s

95th percentile per-packet one-way delay: 137.280 ms

Loss rate: 1.84%

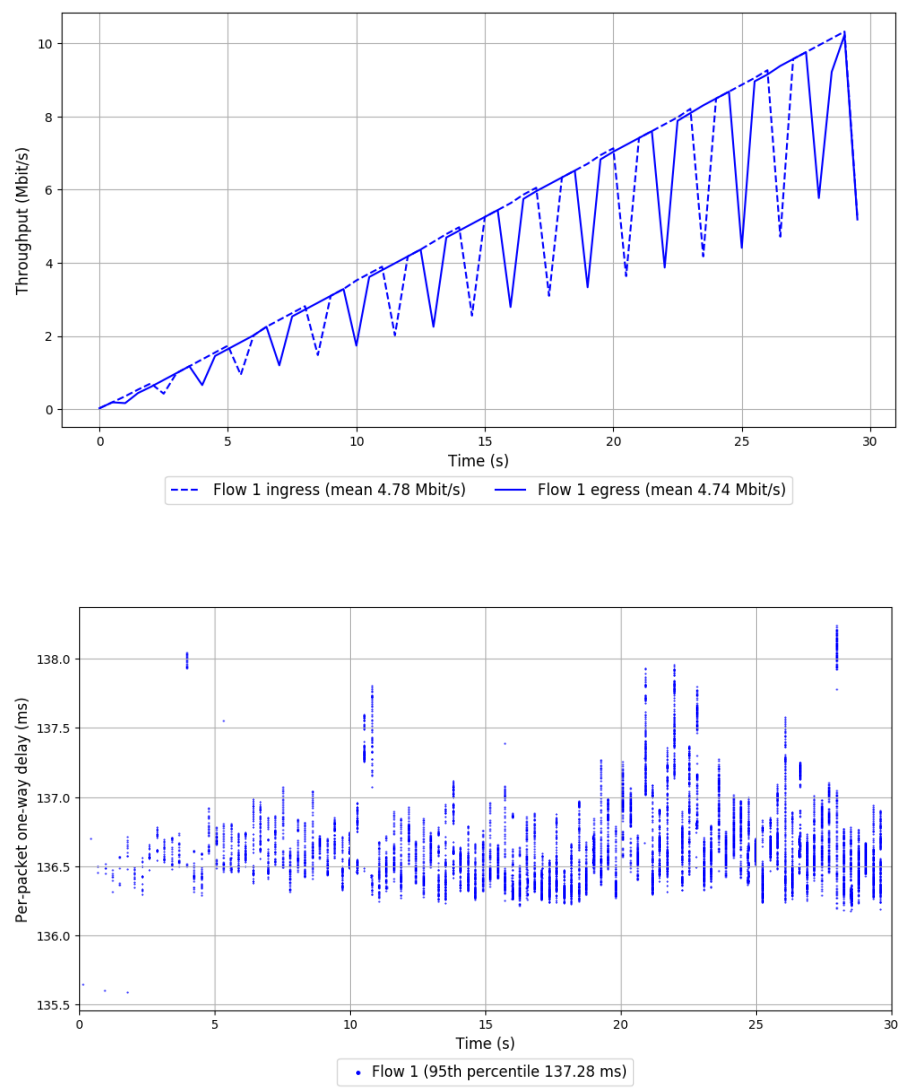
-- Flow 1:

Average throughput: 4.74 Mbit/s

95th percentile per-packet one-way delay: 137.280 ms

Loss rate: 1.84%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-03-27 13:26:10

End at: 2018-03-27 13:26:40

Below is generated by plot.py at 2018-03-27 17:36:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 137.465 ms

Loss rate: 1.84%

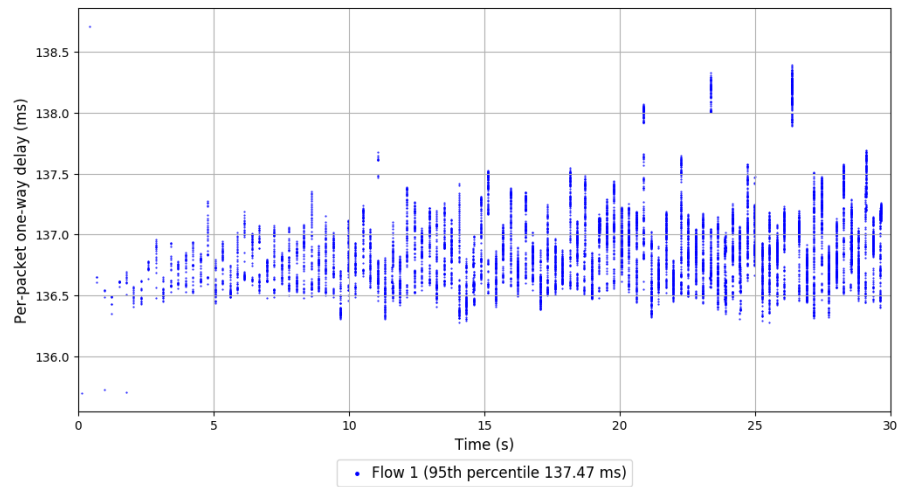
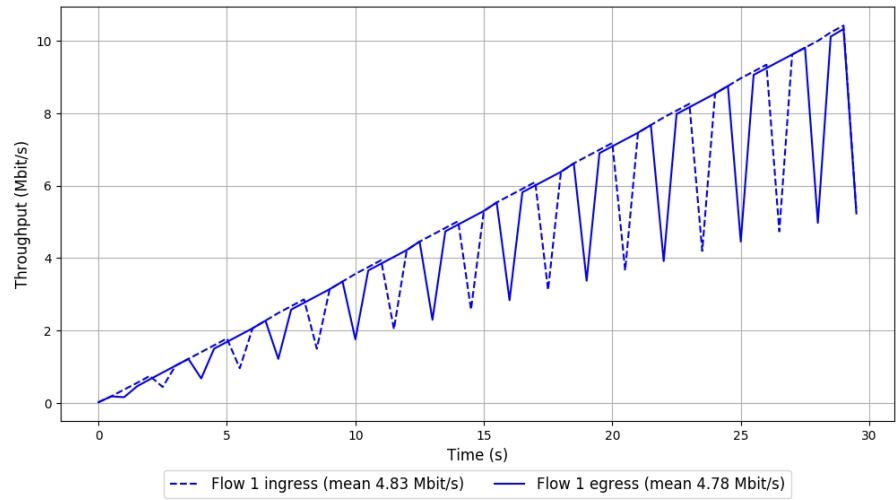
-- Flow 1:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 137.465 ms

Loss rate: 1.84%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-03-27 13:42:10

End at: 2018-03-27 13:42:40

Below is generated by plot.py at 2018-03-27 17:36:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.86 Mbit/s

95th percentile per-packet one-way delay: 136.019 ms

Loss rate: 1.81%

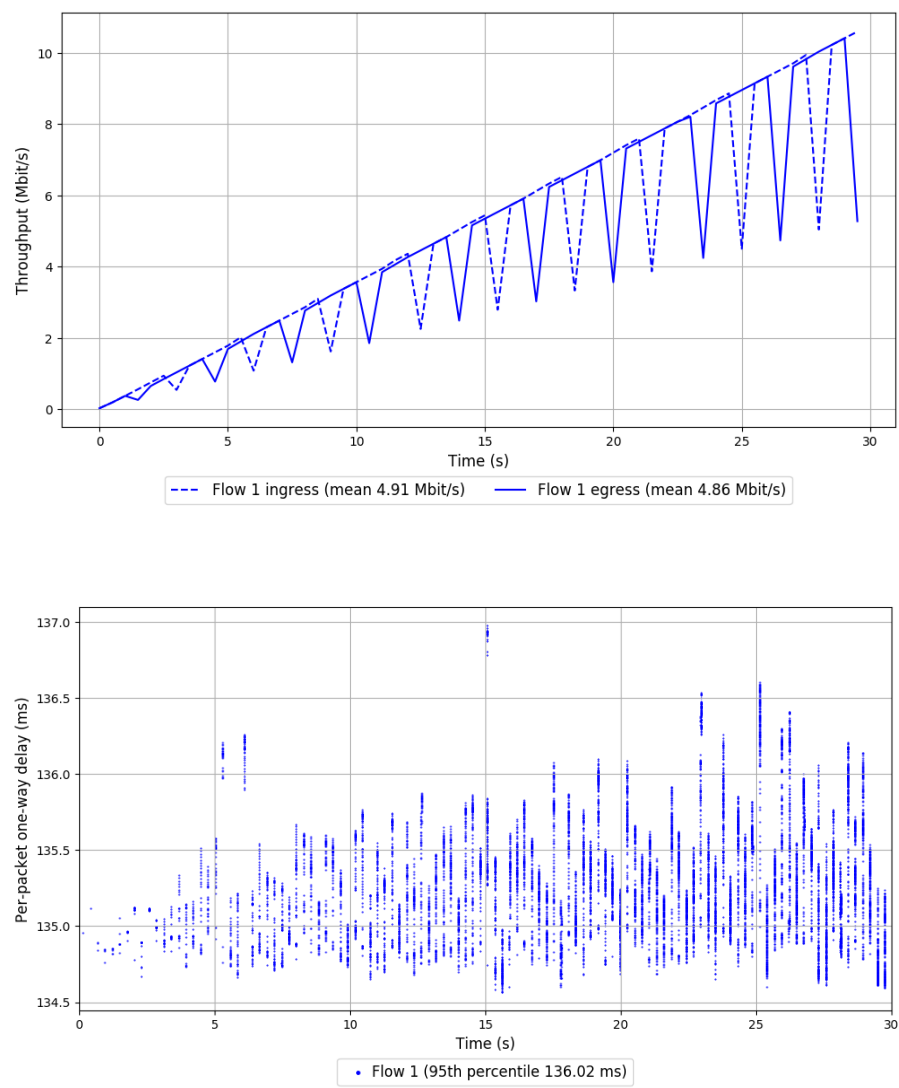
-- Flow 1:

Average throughput: 4.86 Mbit/s

95th percentile per-packet one-way delay: 136.019 ms

Loss rate: 1.81%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-03-27 13:57:50

End at: 2018-03-27 13:58:20

Below is generated by plot.py at 2018-03-27 17:36:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.010 ms

Loss rate: 2.19%

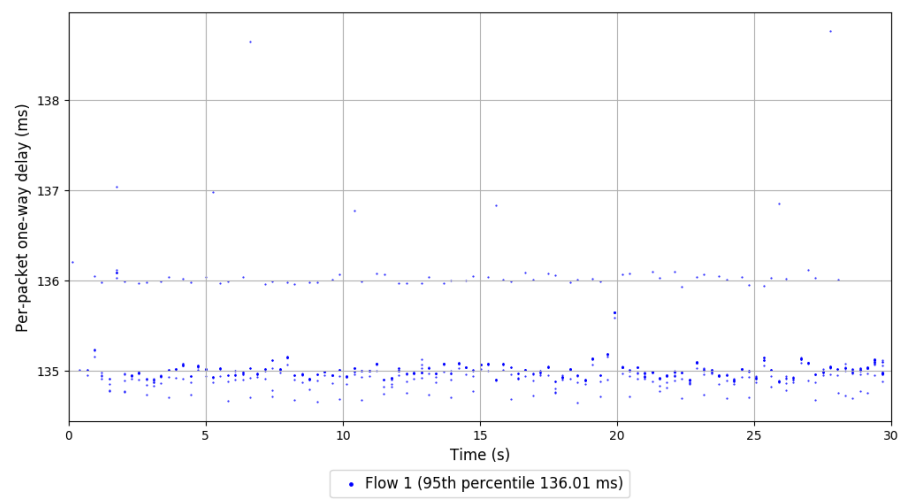
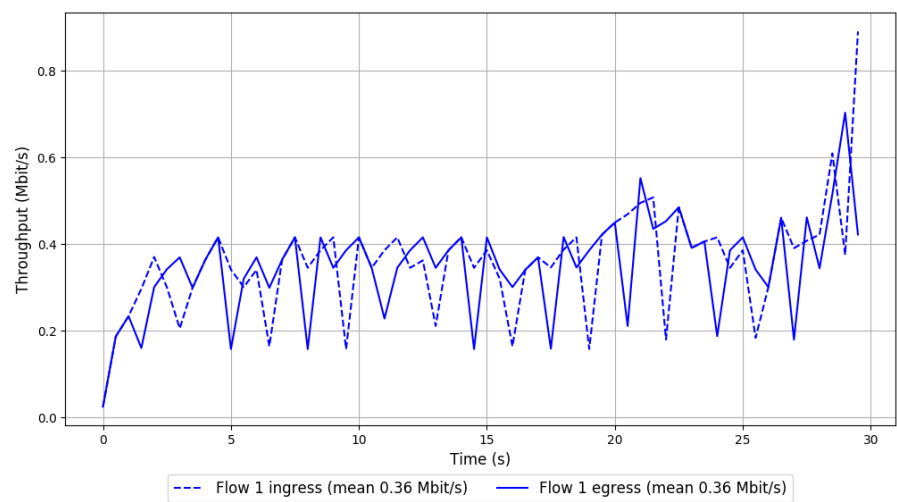
-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.010 ms

Loss rate: 2.19%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-03-27 14:13:42

End at: 2018-03-27 14:14:12

Below is generated by plot.py at 2018-03-27 17:36:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 138.284 ms

Loss rate: 1.83%

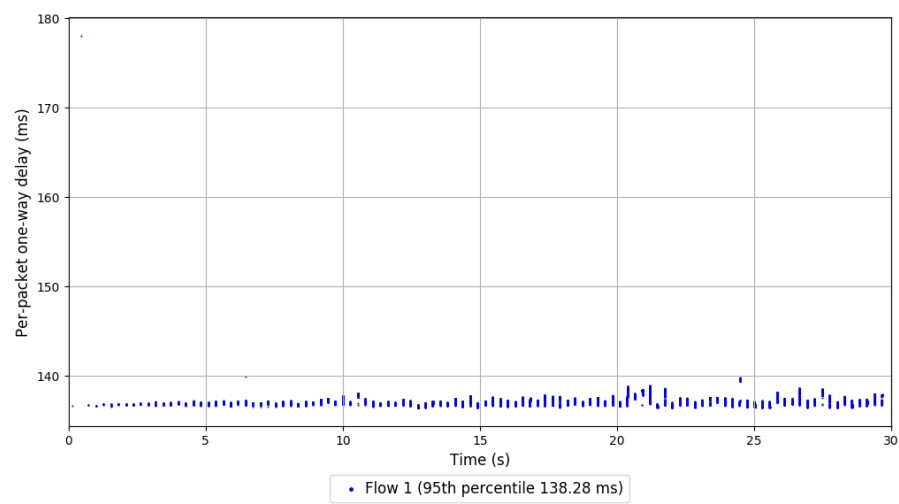
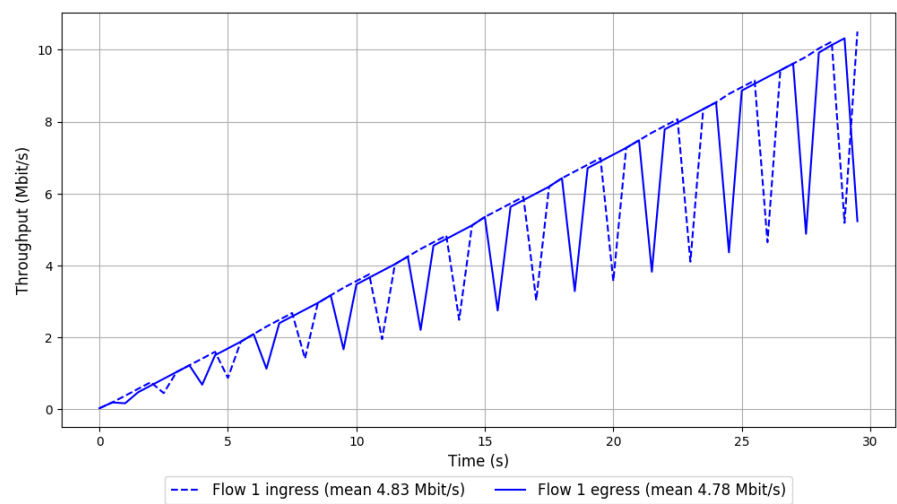
-- Flow 1:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 138.284 ms

Loss rate: 1.83%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-03-27 14:29:37

End at: 2018-03-27 14:30:07

Below is generated by plot.py at 2018-03-27 17:36:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.84 Mbit/s

95th percentile per-packet one-way delay: 137.723 ms

Loss rate: 1.82%

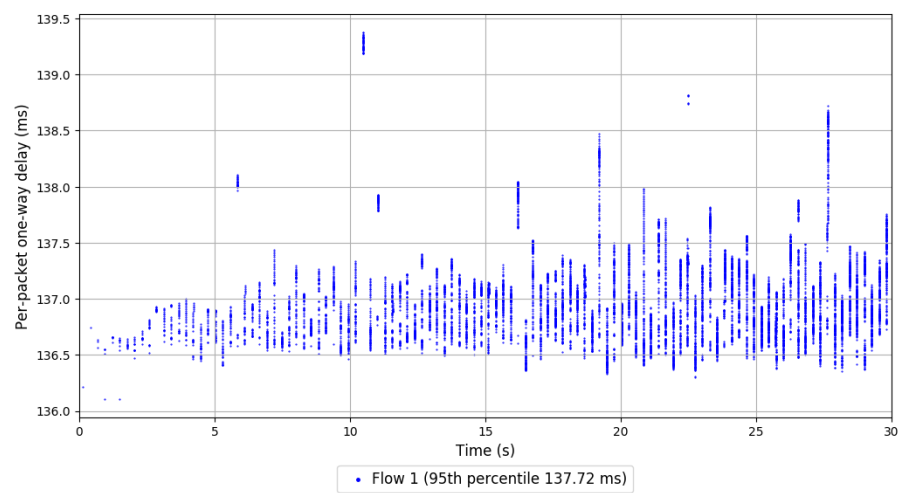
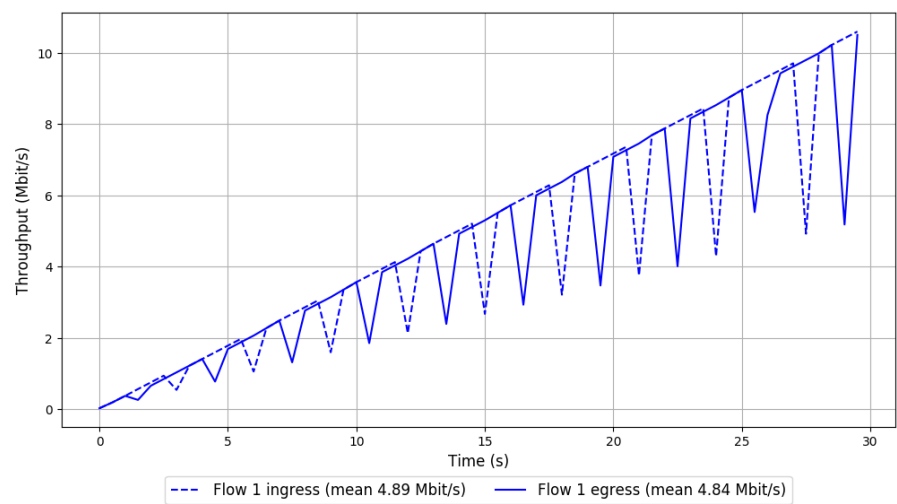
-- Flow 1:

Average throughput: 4.84 Mbit/s

95th percentile per-packet one-way delay: 137.723 ms

Loss rate: 1.82%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-03-27 14:45:28

End at: 2018-03-27 14:45:58

Below is generated by plot.py at 2018-03-27 17:36:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 136.274 ms

Loss rate: 2.77%

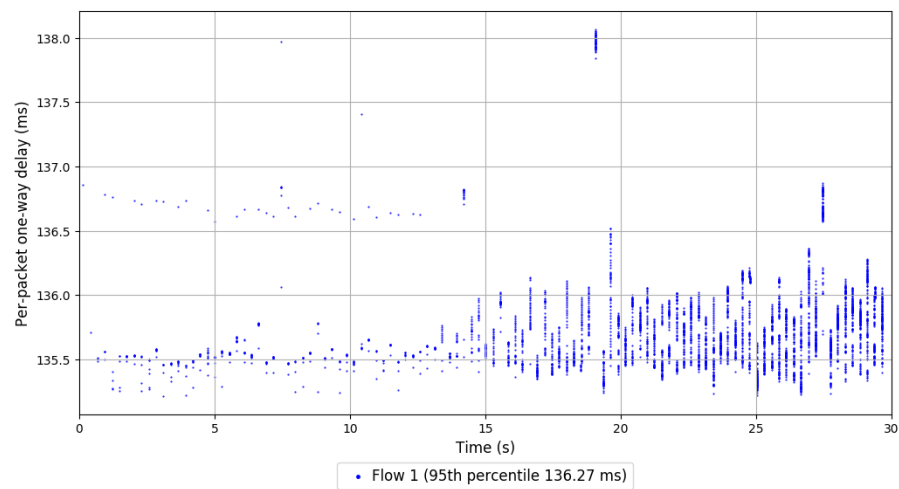
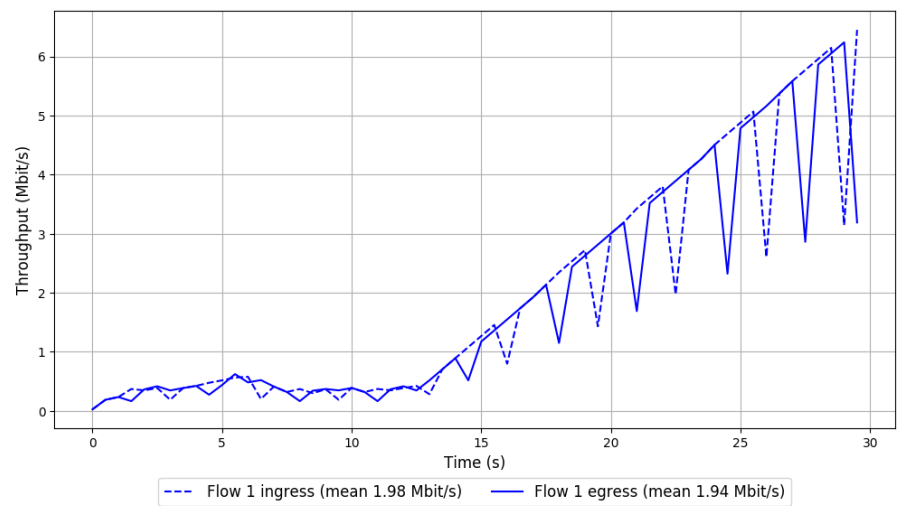
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 136.274 ms

Loss rate: 2.77%

Run 10: Report of LEDBAT — Data Link

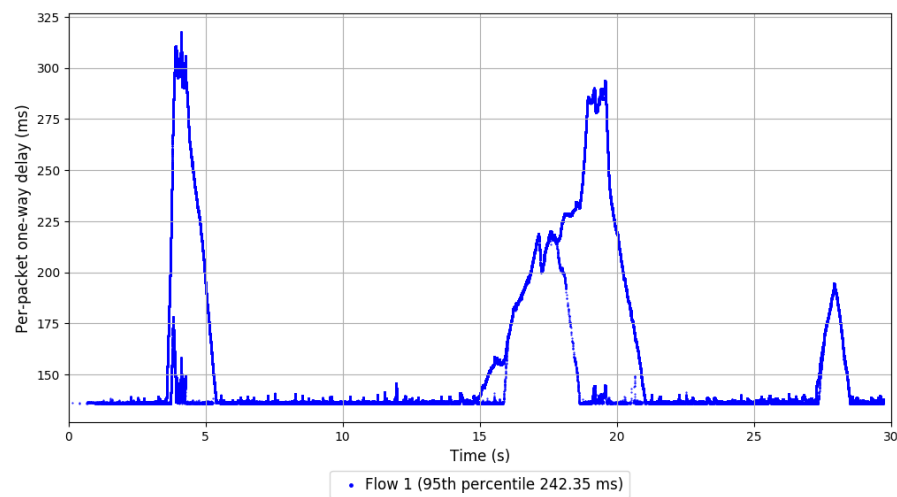
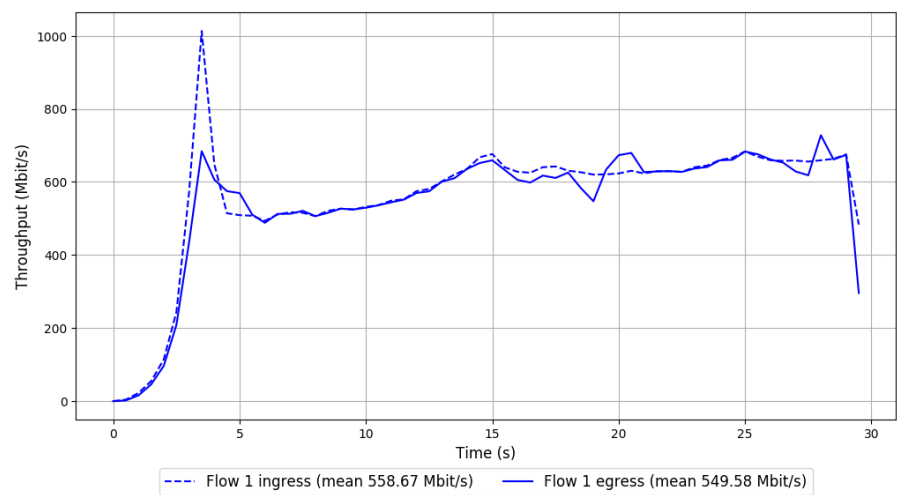


```
Run 1: Statistics of PCC

Start at: 2018-03-27 12:10:03
End at: 2018-03-27 12:10:33

# Below is generated by plot.py at 2018-03-27 17:46:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 549.58 Mbit/s
95th percentile per-packet one-way delay: 242.355 ms
Loss rate: 2.52%
-- Flow 1:
Average throughput: 549.58 Mbit/s
95th percentile per-packet one-way delay: 242.355 ms
Loss rate: 2.52%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-03-27 12:25:35

End at: 2018-03-27 12:26:05

Below is generated by plot.py at 2018-03-27 17:46:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 553.02 Mbit/s

95th percentile per-packet one-way delay: 223.115 ms

Loss rate: 2.50%

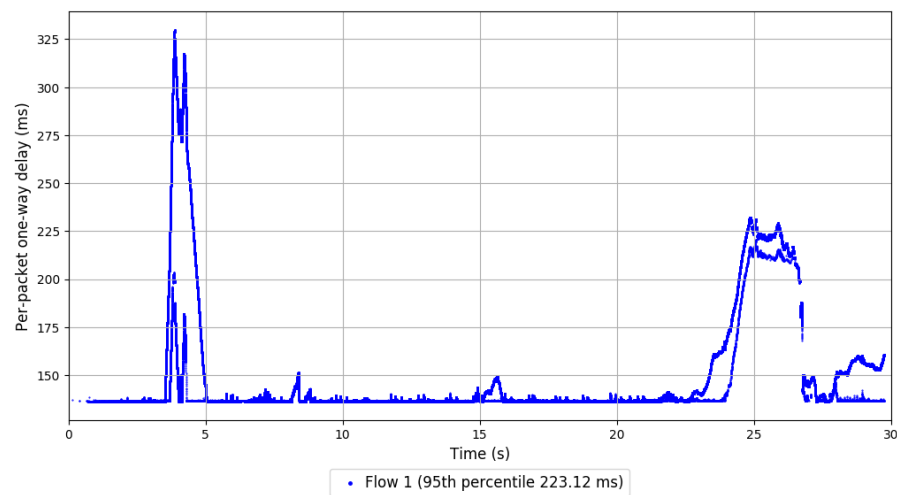
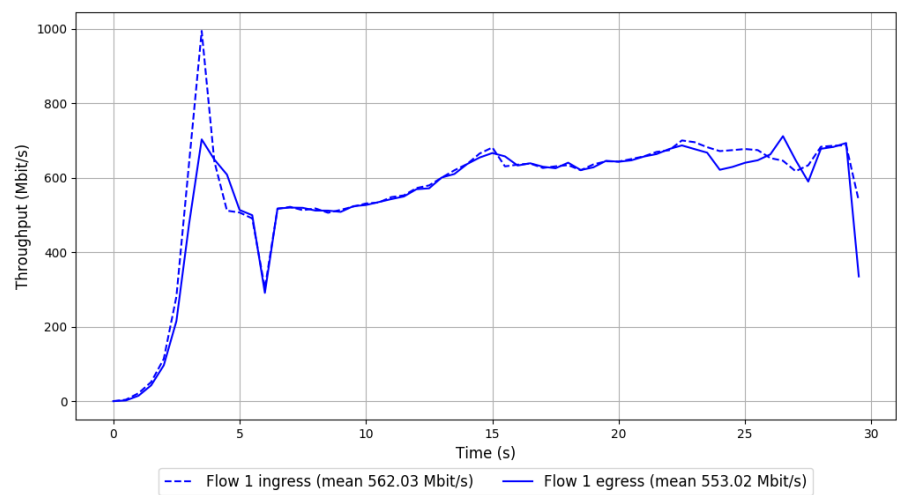
-- Flow 1:

Average throughput: 553.02 Mbit/s

95th percentile per-packet one-way delay: 223.115 ms

Loss rate: 2.50%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-03-27 12:41:12

End at: 2018-03-27 12:41:42

Below is generated by plot.py at 2018-03-27 17:46:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 531.73 Mbit/s

95th percentile per-packet one-way delay: 217.348 ms

Loss rate: 2.68%

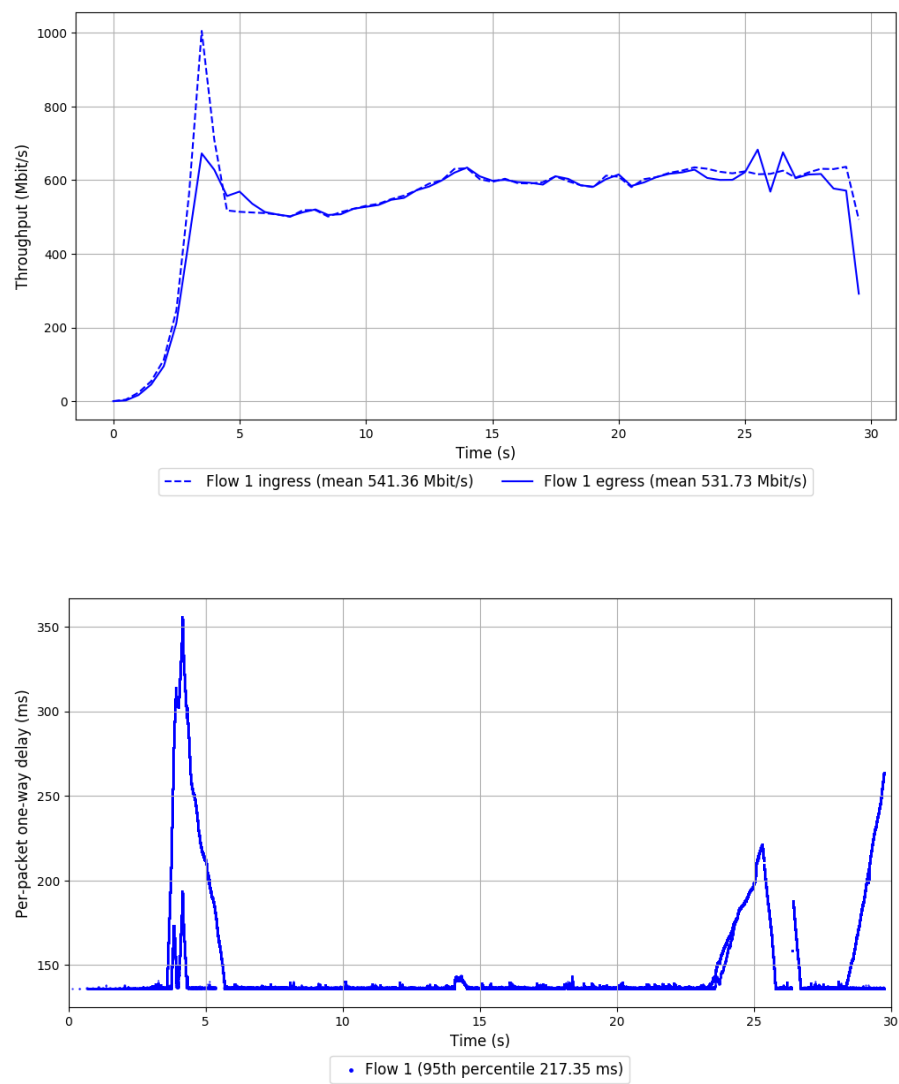
-- Flow 1:

Average throughput: 531.73 Mbit/s

95th percentile per-packet one-way delay: 217.348 ms

Loss rate: 2.68%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-03-27 12:56:57

End at: 2018-03-27 12:57:27

Below is generated by plot.py at 2018-03-27 17:46:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 535.66 Mbit/s

95th percentile per-packet one-way delay: 219.006 ms

Loss rate: 2.50%

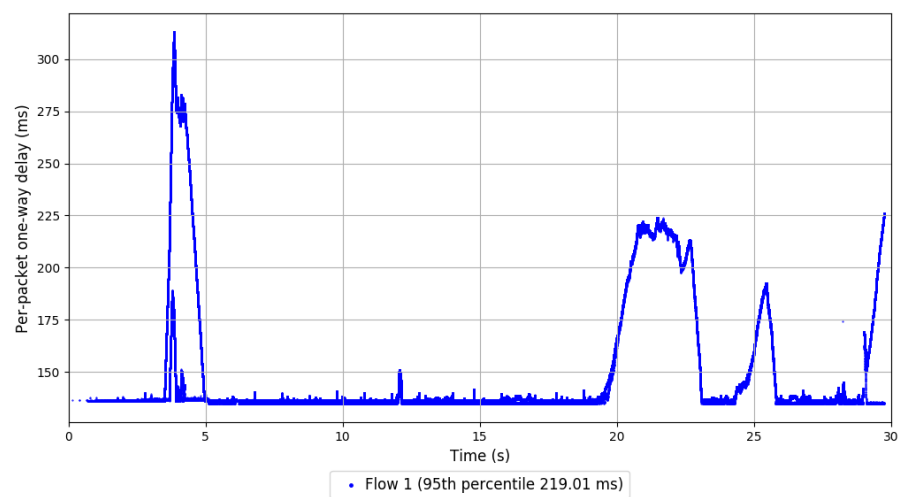
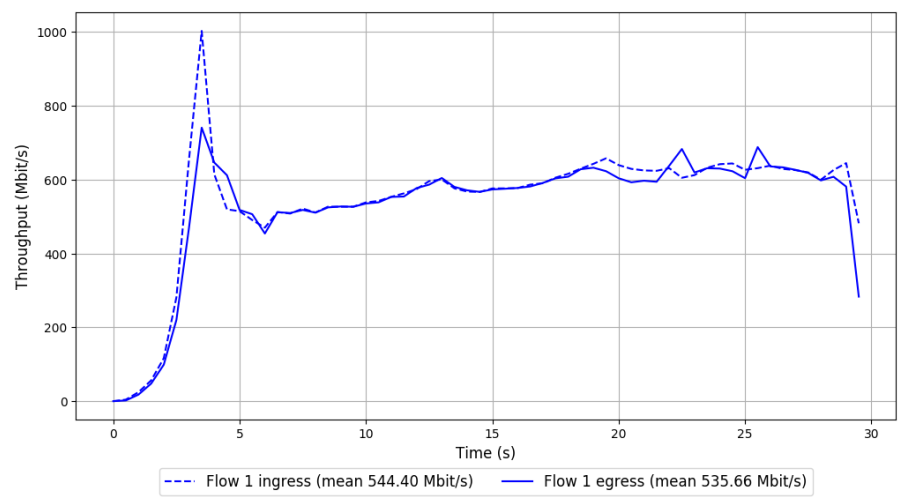
-- Flow 1:

Average throughput: 535.66 Mbit/s

95th percentile per-packet one-way delay: 219.006 ms

Loss rate: 2.50%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-03-27 13:12:31

End at: 2018-03-27 13:13:01

Below is generated by plot.py at 2018-03-27 17:47:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 544.64 Mbit/s

95th percentile per-packet one-way delay: 234.969 ms

Loss rate: 2.69%

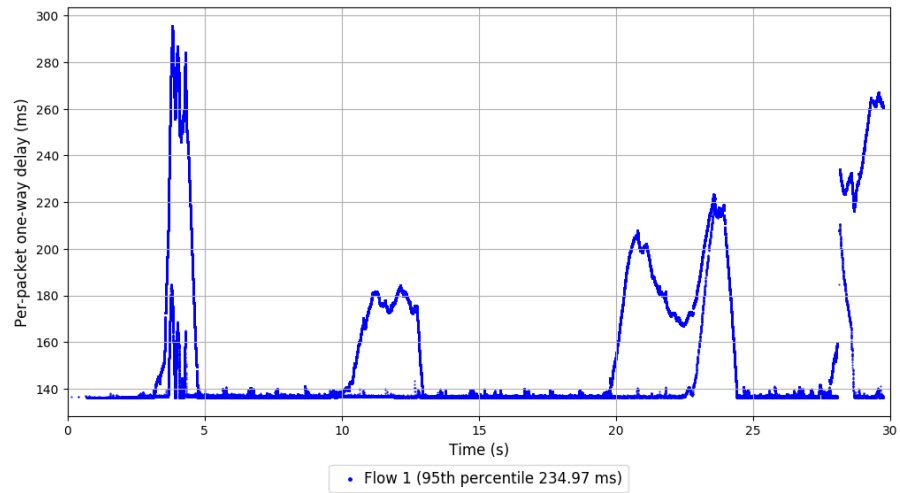
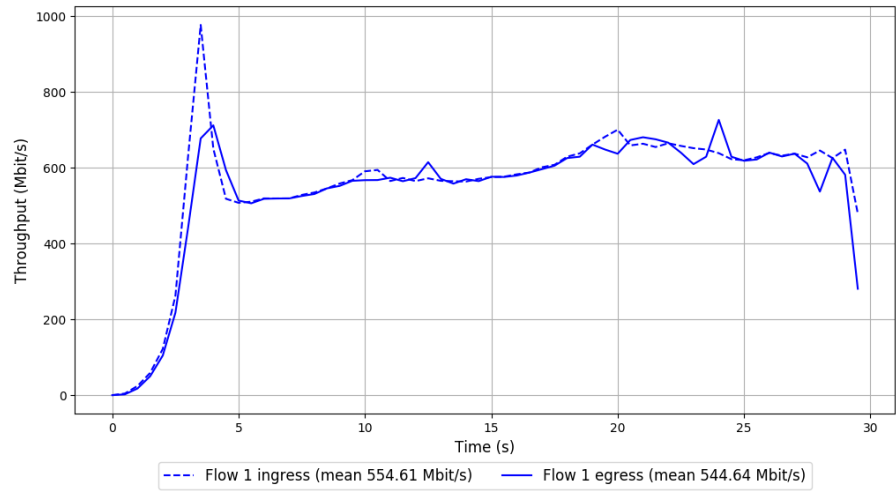
-- Flow 1:

Average throughput: 544.64 Mbit/s

95th percentile per-packet one-way delay: 234.969 ms

Loss rate: 2.69%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-03-27 13:28:35

End at: 2018-03-27 13:29:05

Below is generated by plot.py at 2018-03-27 17:47:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 550.32 Mbit/s

95th percentile per-packet one-way delay: 225.600 ms

Loss rate: 3.20%

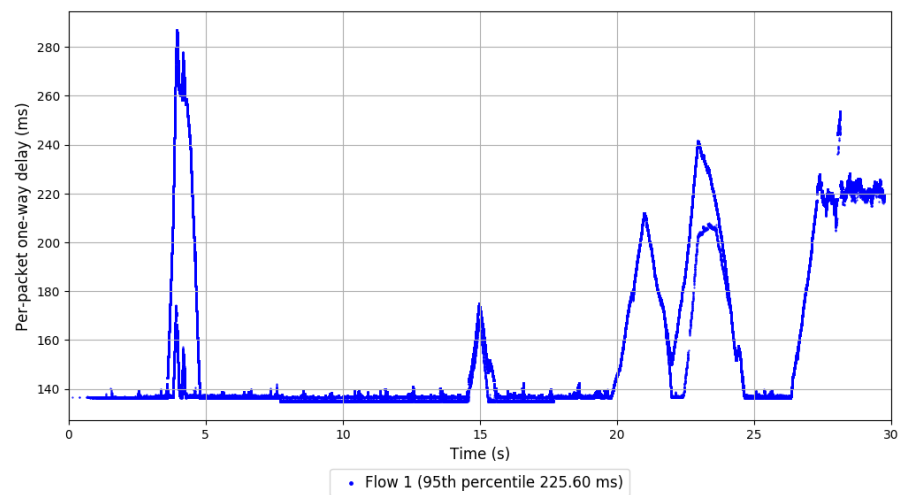
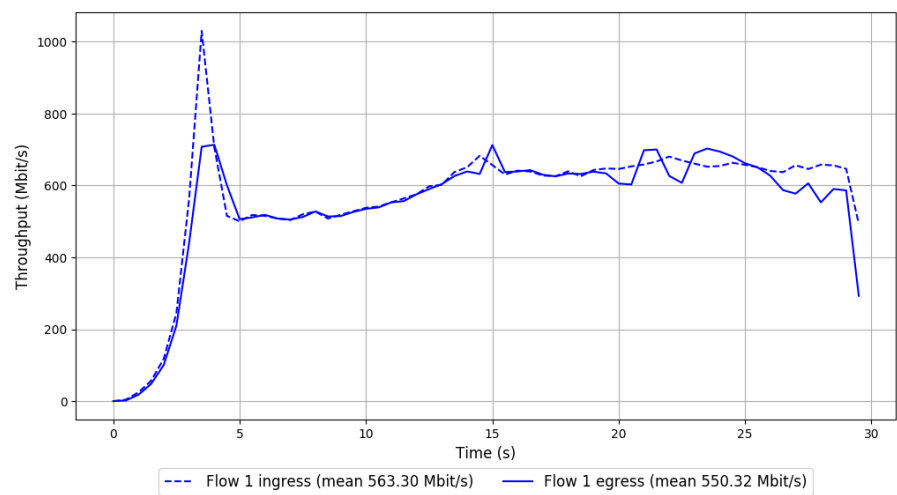
-- Flow 1:

Average throughput: 550.32 Mbit/s

95th percentile per-packet one-way delay: 225.600 ms

Loss rate: 3.20%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-03-27 13:44:30

End at: 2018-03-27 13:45:00

Below is generated by plot.py at 2018-03-27 17:47:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 545.23 Mbit/s

95th percentile per-packet one-way delay: 168.675 ms

Loss rate: 2.07%

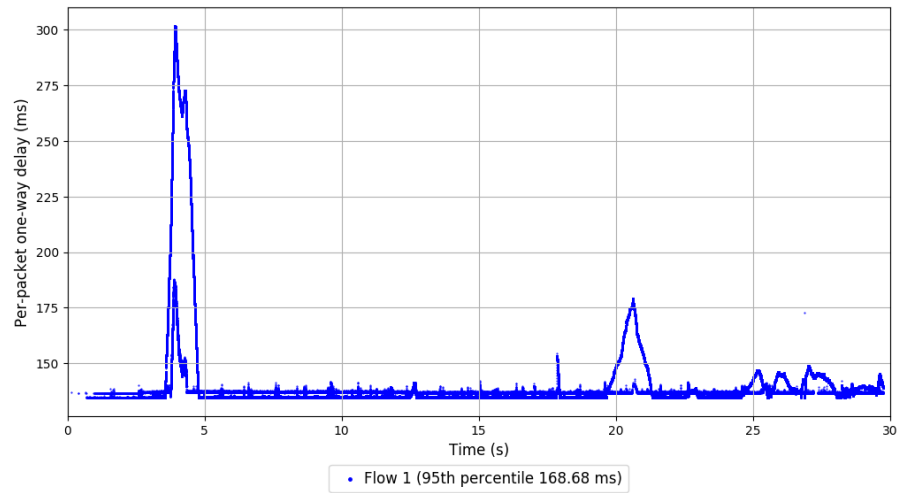
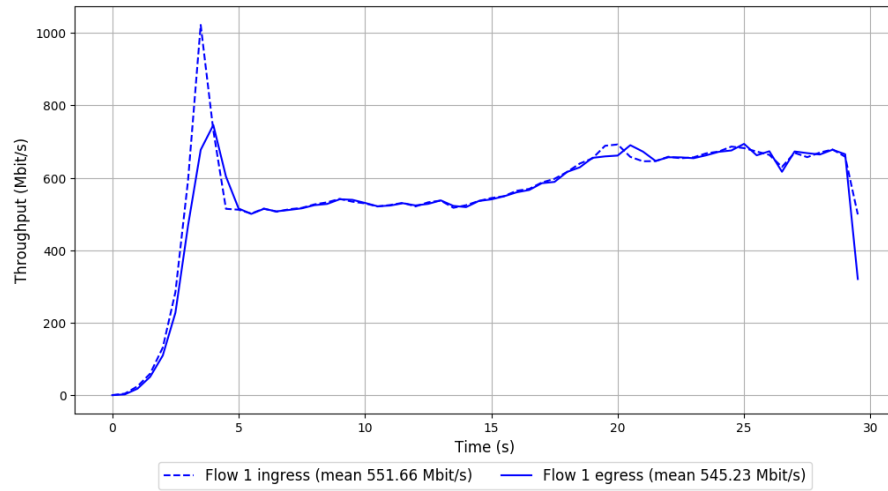
-- Flow 1:

Average throughput: 545.23 Mbit/s

95th percentile per-packet one-way delay: 168.675 ms

Loss rate: 2.07%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-03-27 14:00:06

End at: 2018-03-27 14:00:36

Below is generated by plot.py at 2018-03-27 17:47:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 561.70 Mbit/s

95th percentile per-packet one-way delay: 309.876 ms

Loss rate: 3.87%

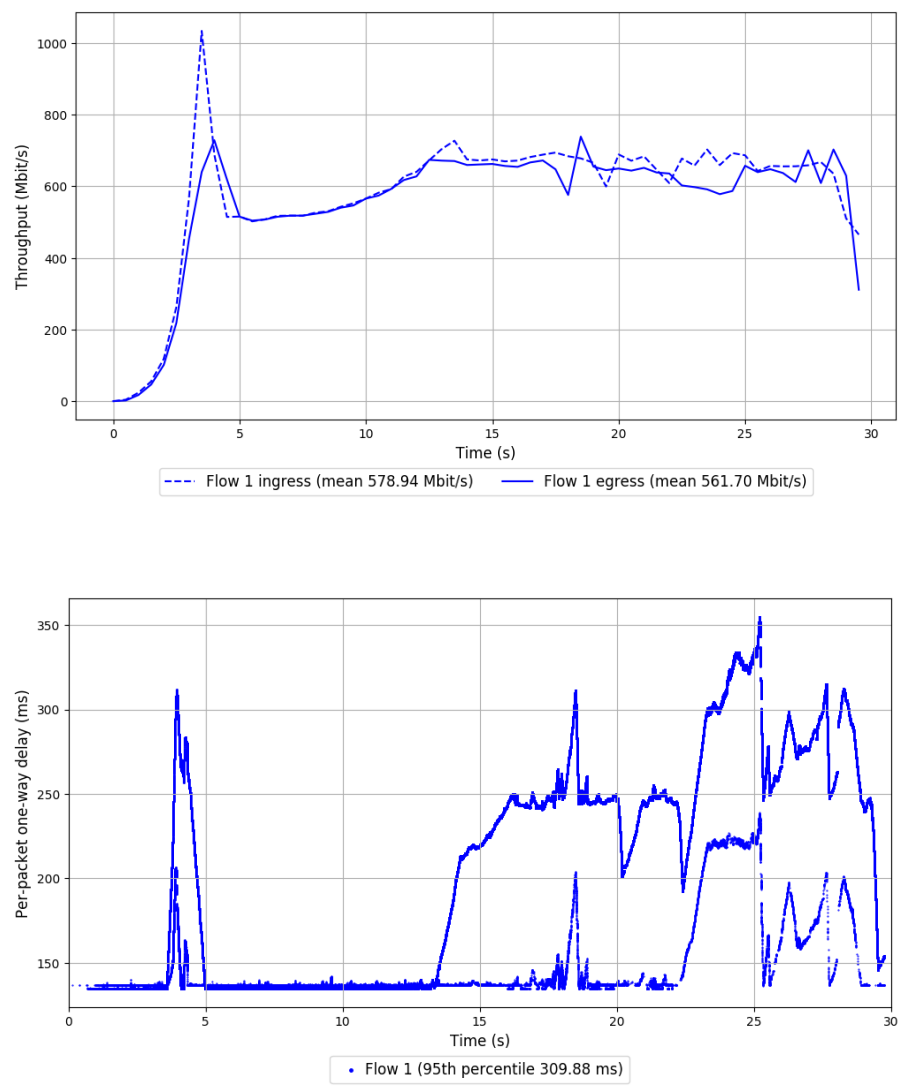
-- Flow 1:

Average throughput: 561.70 Mbit/s

95th percentile per-packet one-way delay: 309.876 ms

Loss rate: 3.87%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-03-27 14:15:56

End at: 2018-03-27 14:16:26

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 542.93 Mbit/s

95th percentile per-packet one-way delay: 218.881 ms

Loss rate: 1.89%

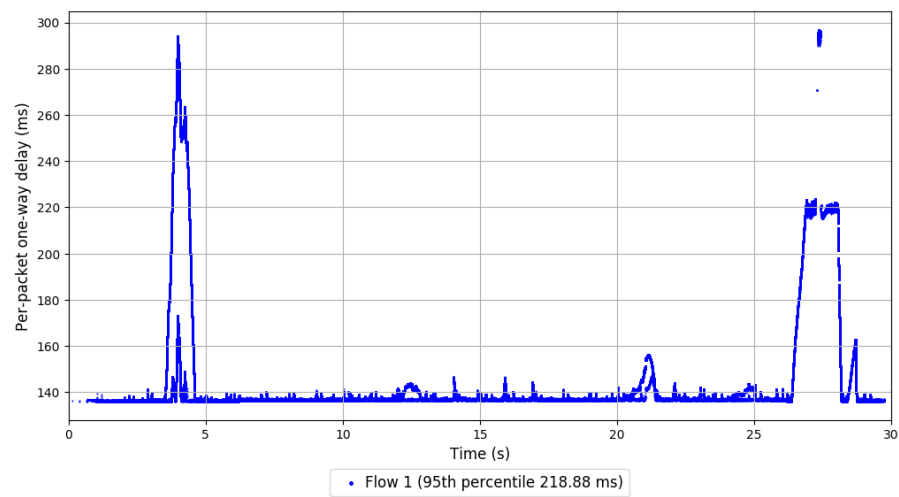
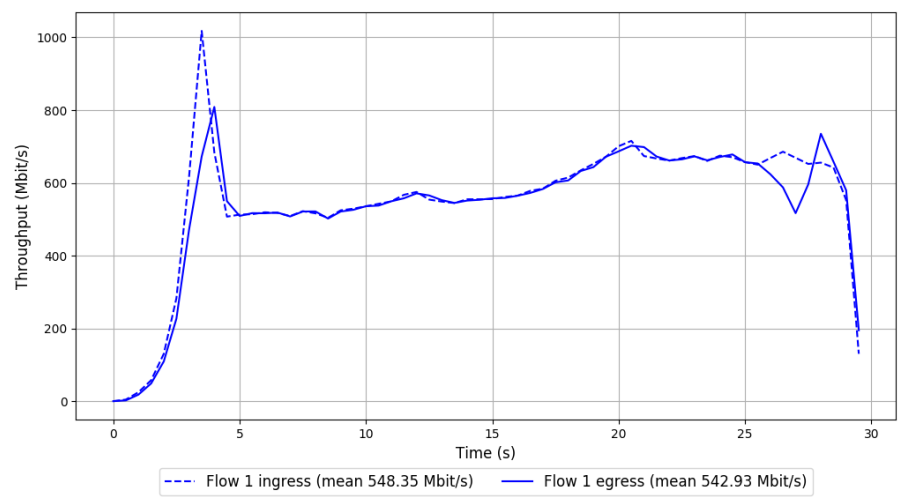
-- Flow 1:

Average throughput: 542.93 Mbit/s

95th percentile per-packet one-way delay: 218.881 ms

Loss rate: 1.89%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-03-27 14:31:56

End at: 2018-03-27 14:32:26

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 517.86 Mbit/s

95th percentile per-packet one-way delay: 220.103 ms

Loss rate: 2.25%

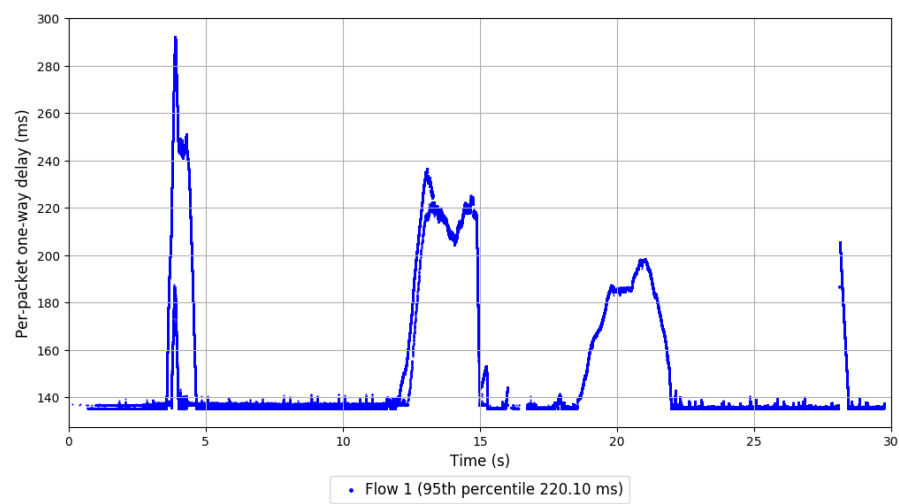
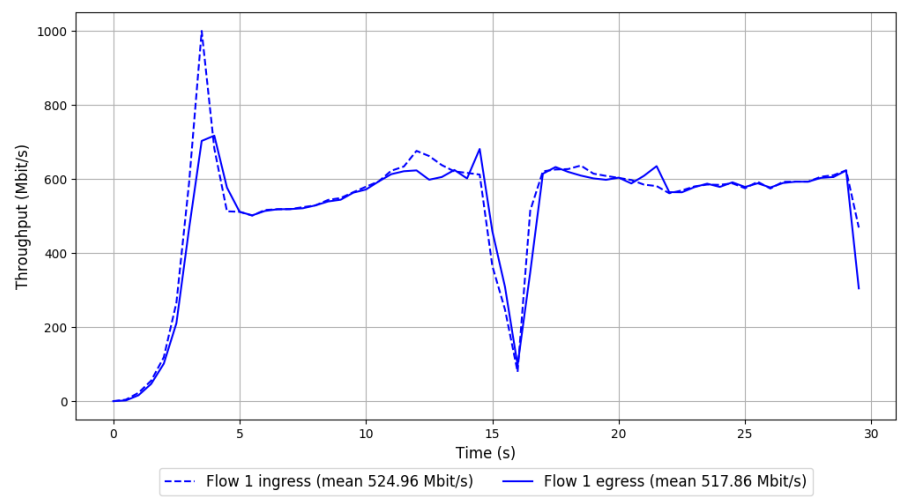
-- Flow 1:

Average throughput: 517.86 Mbit/s

95th percentile per-packet one-way delay: 220.103 ms

Loss rate: 2.25%

Run 10: Report of PCC — Data Link

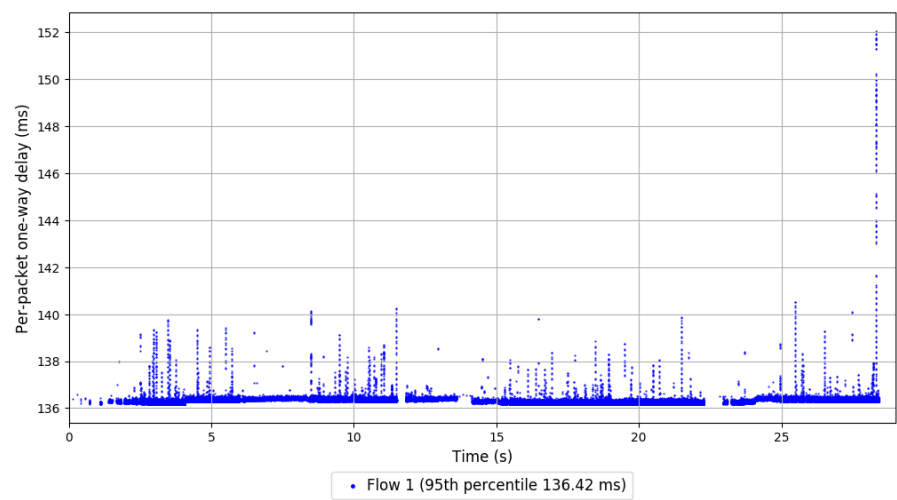
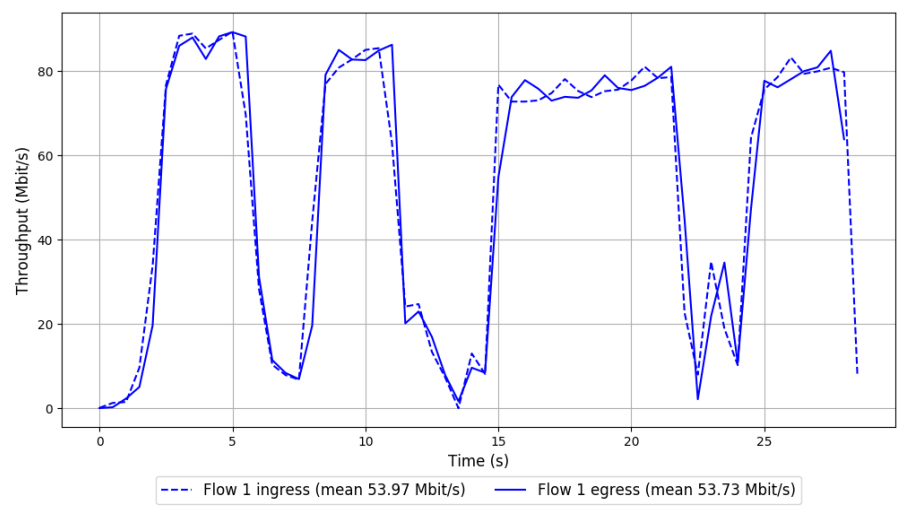


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-03-27 12:17:17
End at: 2018-03-27 12:17:47

# Below is generated by plot.py at 2018-03-27 17:58:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.73 Mbit/s
95th percentile per-packet one-way delay: 136.421 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 53.73 Mbit/s
95th percentile per-packet one-way delay: 136.421 ms
Loss rate: 1.40%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-03-27 12:32:51

End at: 2018-03-27 12:33:21

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.98 Mbit/s

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

Loss rate: 1.28%

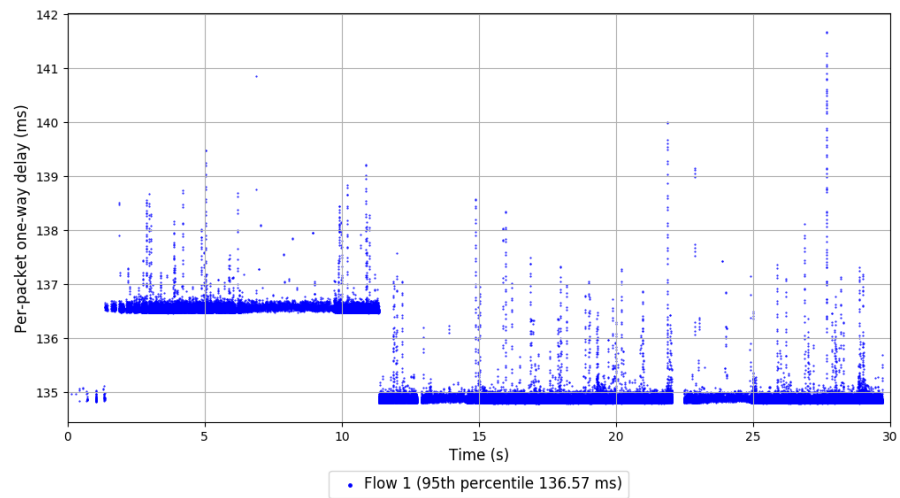
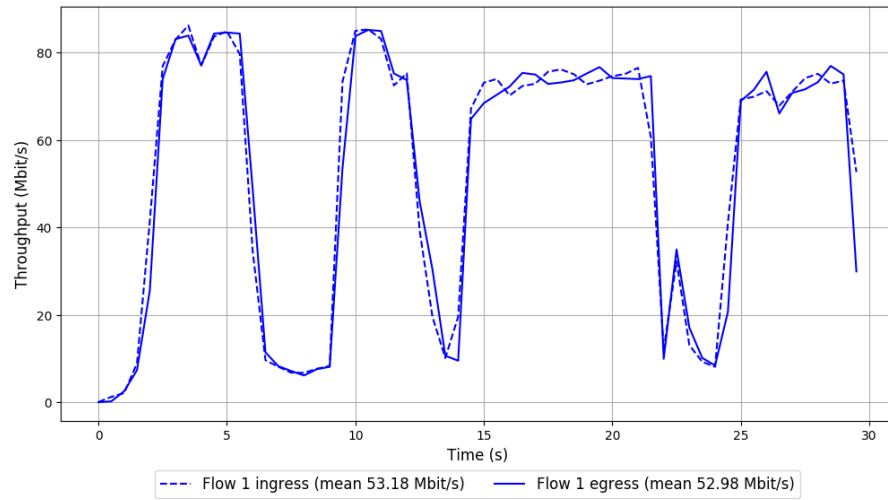
-- Flow 1:

Average throughput: 52.98 Mbit/s

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

Loss rate: 1.28%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-03-27 12:48:32

End at: 2018-03-27 12:49:02

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.42 Mbit/s

95th percentile per-packet one-way delay: 136.513 ms

Loss rate: 1.24%

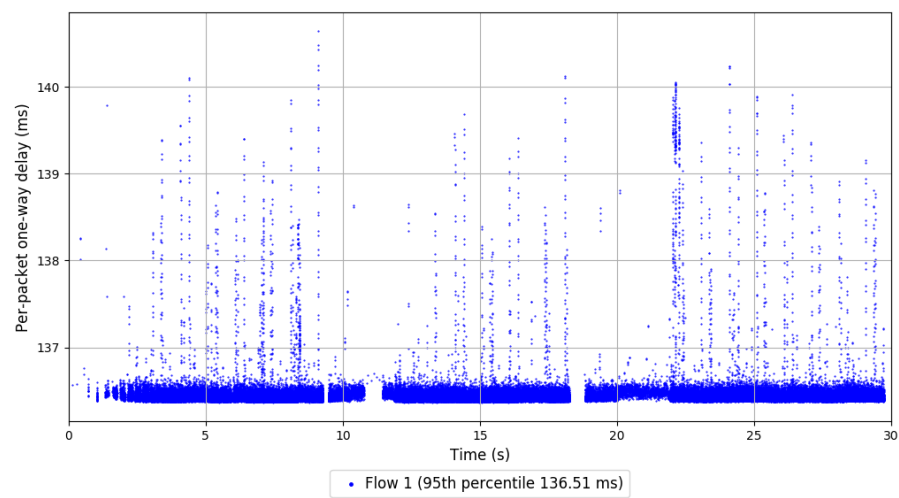
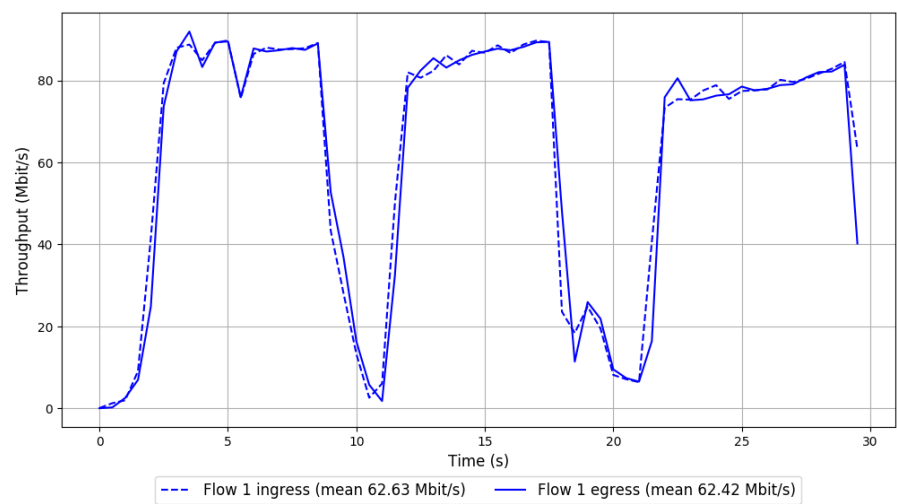
-- Flow 1:

Average throughput: 62.42 Mbit/s

95th percentile per-packet one-way delay: 136.513 ms

Loss rate: 1.24%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-03-27 13:04:09

End at: 2018-03-27 13:04:39

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.77 Mbit/s

95th percentile per-packet one-way delay: 136.550 ms

Loss rate: 1.15%

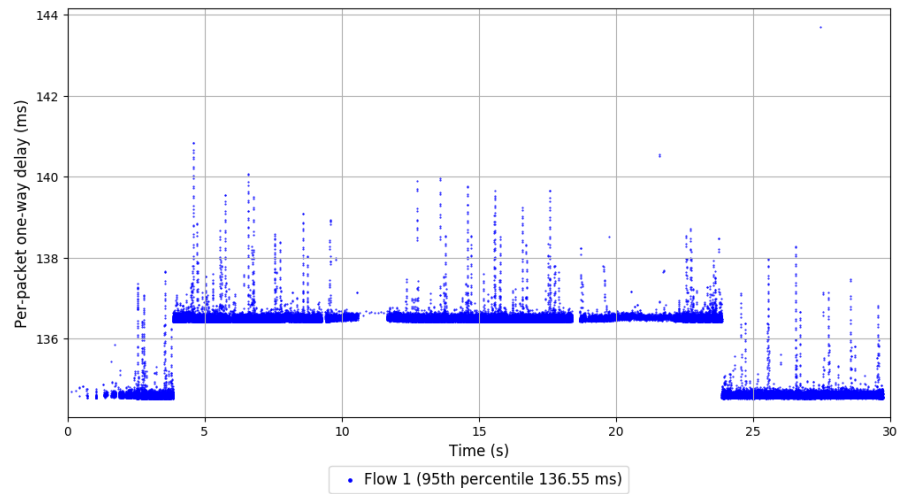
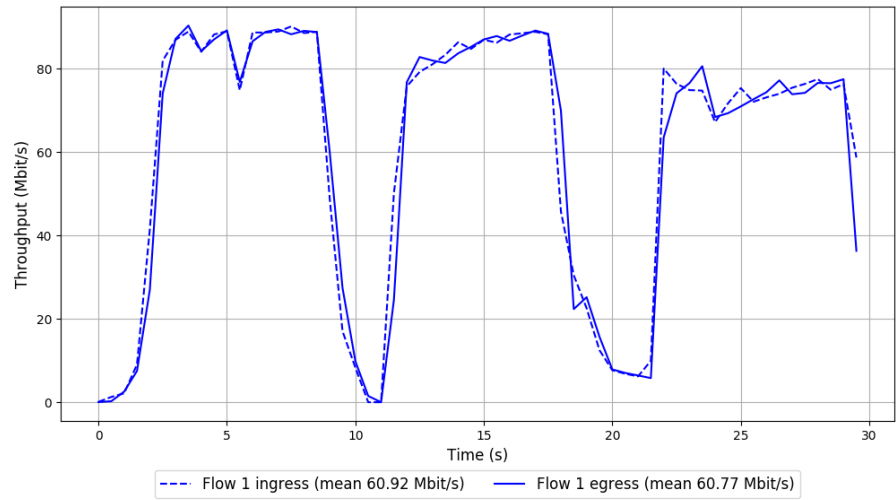
-- Flow 1:

Average throughput: 60.77 Mbit/s

95th percentile per-packet one-way delay: 136.550 ms

Loss rate: 1.15%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-03-27 13:19:46

End at: 2018-03-27 13:20:16

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.71 Mbit/s

95th percentile per-packet one-way delay: 136.580 ms

Loss rate: 1.26%

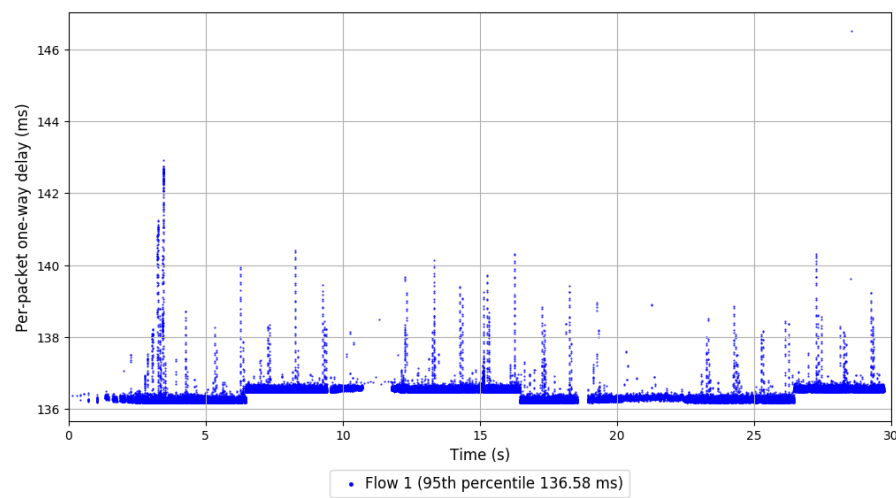
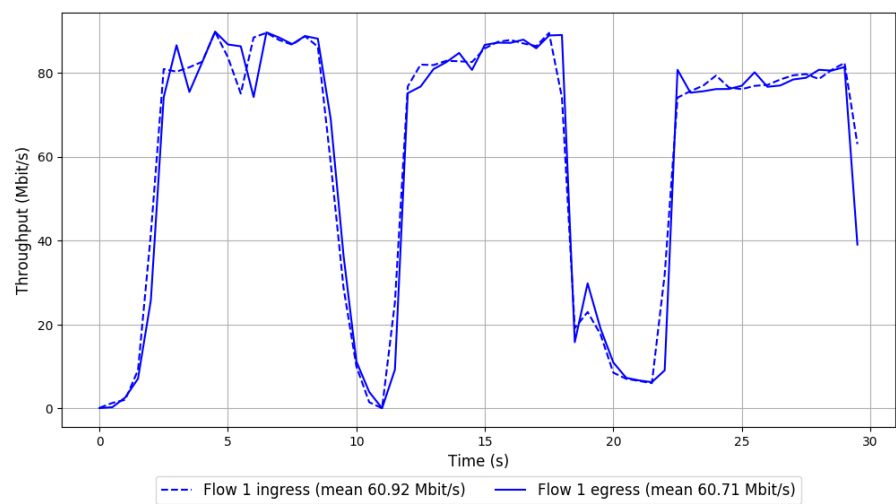
-- Flow 1:

Average throughput: 60.71 Mbit/s

95th percentile per-packet one-way delay: 136.580 ms

Loss rate: 1.26%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-03-27 13:35:41

End at: 2018-03-27 13:36:11

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.52 Mbit/s

95th percentile per-packet one-way delay: 135.162 ms

Loss rate: 1.24%

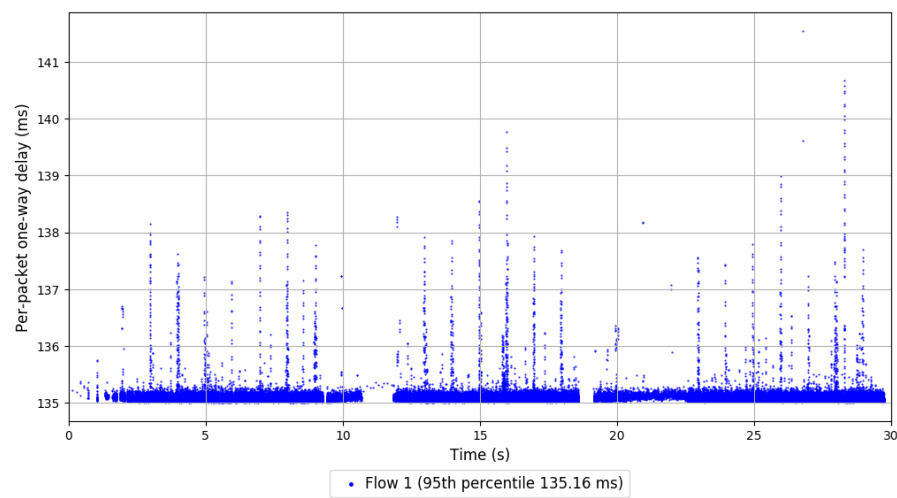
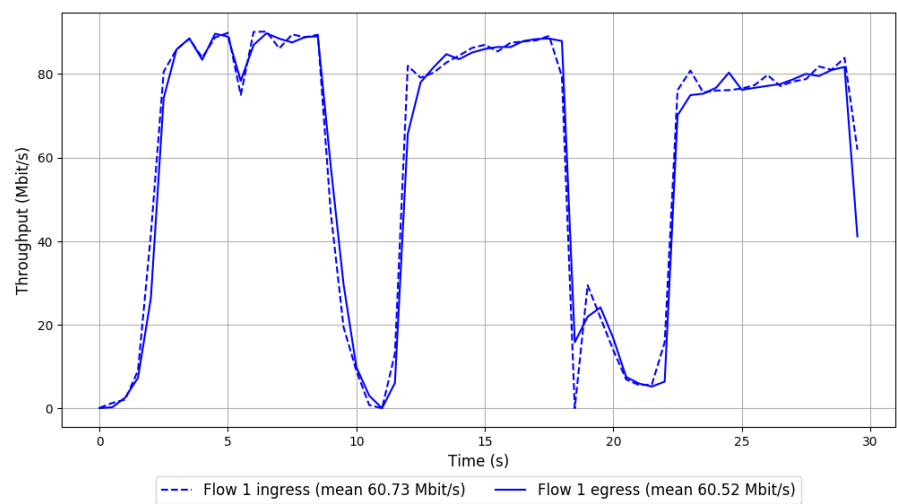
-- Flow 1:

Average throughput: 60.52 Mbit/s

95th percentile per-packet one-way delay: 135.162 ms

Loss rate: 1.24%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-03-27 13:51:43

End at: 2018-03-27 13:52:13

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.69 Mbit/s

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

Loss rate: 1.21%

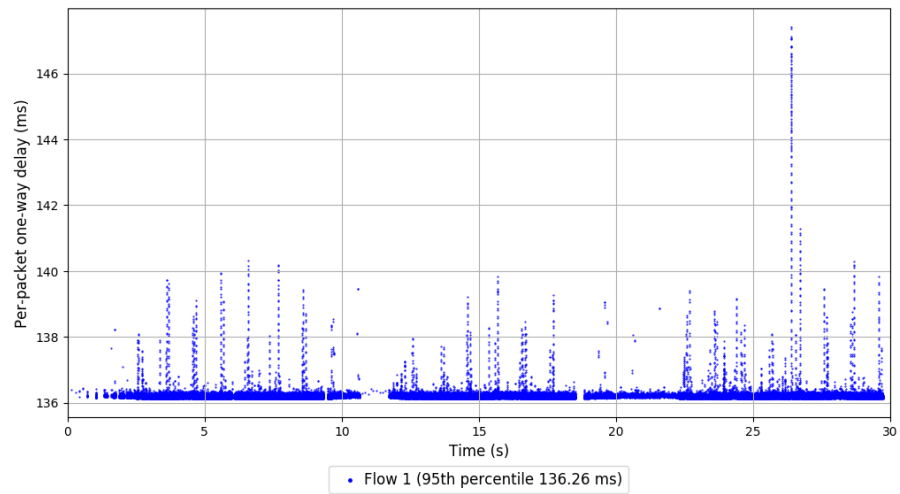
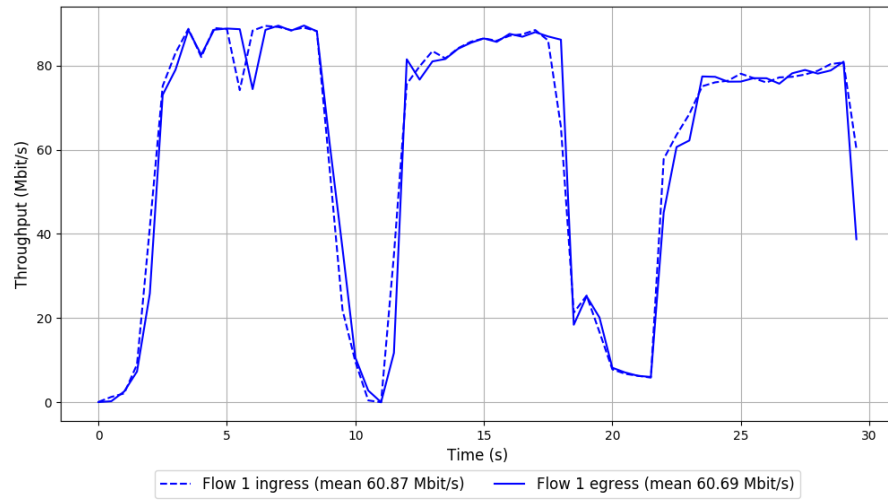
-- Flow 1:

Average throughput: 60.69 Mbit/s

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

Loss rate: 1.21%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-03-27 14:07:13

End at: 2018-03-27 14:07:43

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.43 Mbit/s

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

Loss rate: 1.26%

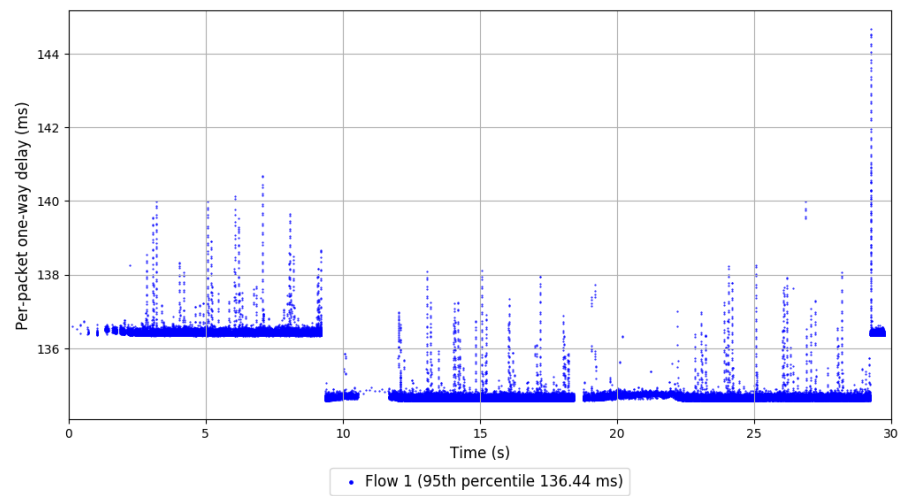
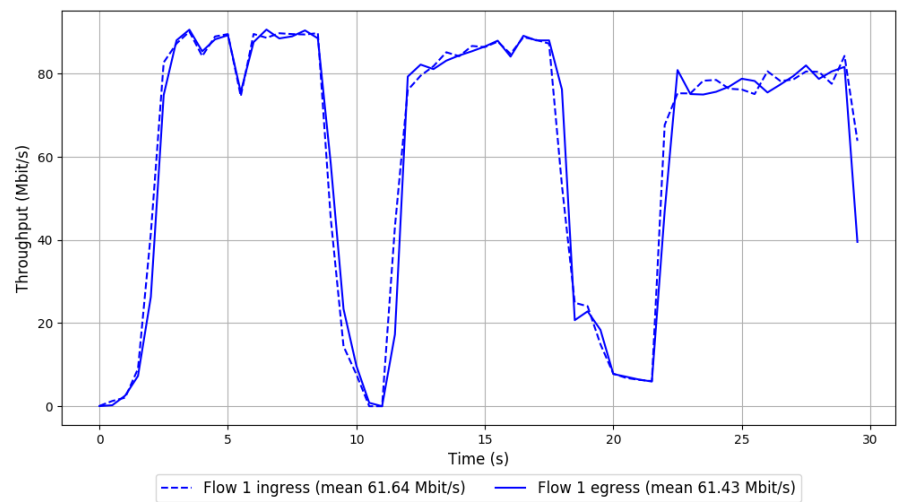
-- Flow 1:

Average throughput: 61.43 Mbit/s

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

Loss rate: 1.26%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-03-27 14:23:11

End at: 2018-03-27 14:23:41

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.22 Mbit/s

95th percentile per-packet one-way delay: 136.609 ms

Loss rate: 1.18%

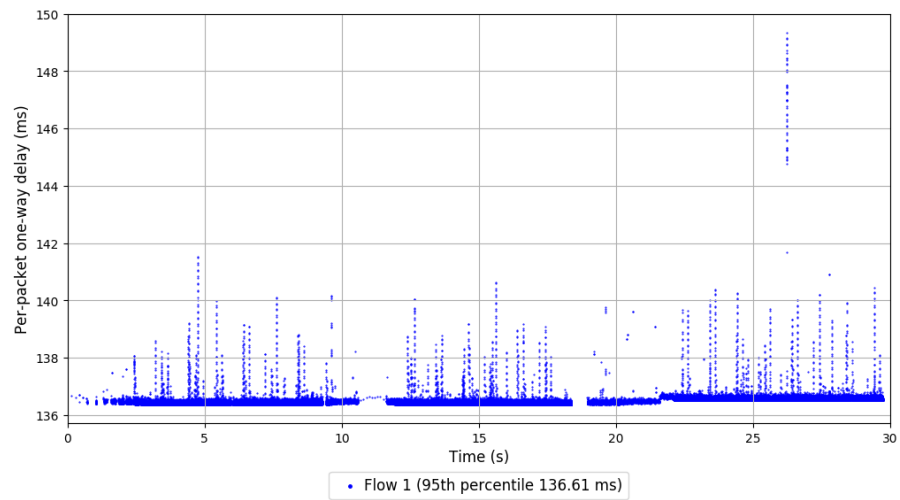
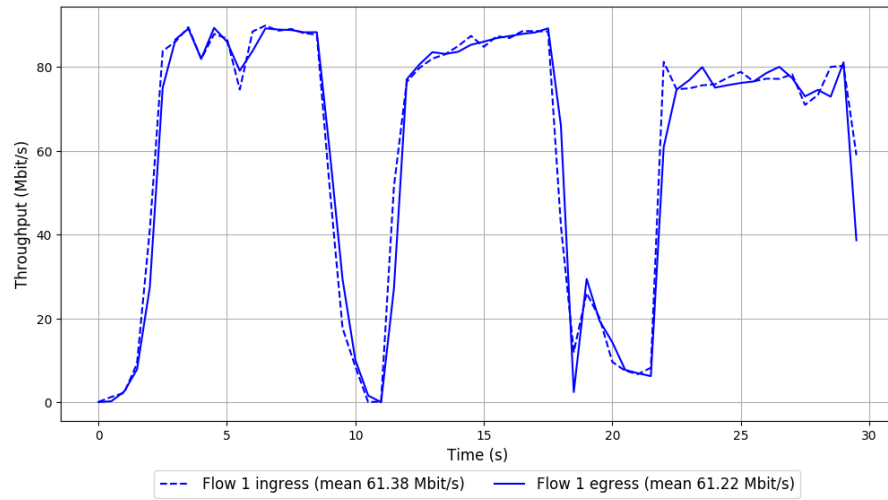
-- Flow 1:

Average throughput: 61.22 Mbit/s

95th percentile per-packet one-way delay: 136.609 ms

Loss rate: 1.18%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-03-27 14:38:58

End at: 2018-03-27 14:39:28

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.51 Mbit/s

95th percentile per-packet one-way delay: 136.556 ms

Loss rate: 1.23%

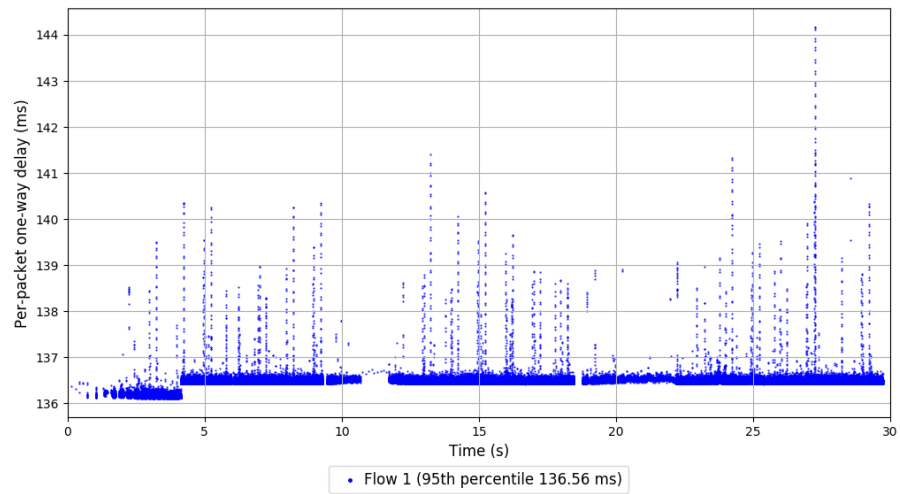
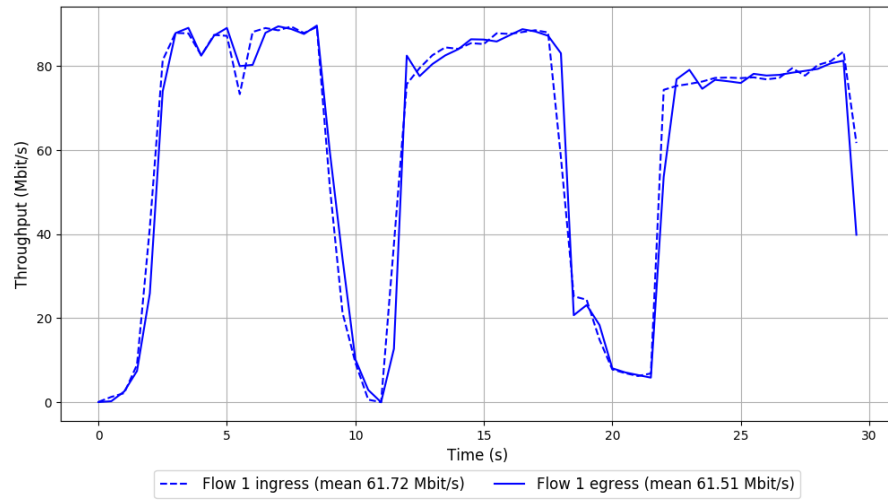
-- Flow 1:

Average throughput: 61.51 Mbit/s

95th percentile per-packet one-way delay: 136.556 ms

Loss rate: 1.23%

Run 10: Report of QUIC Cubic — Data Link

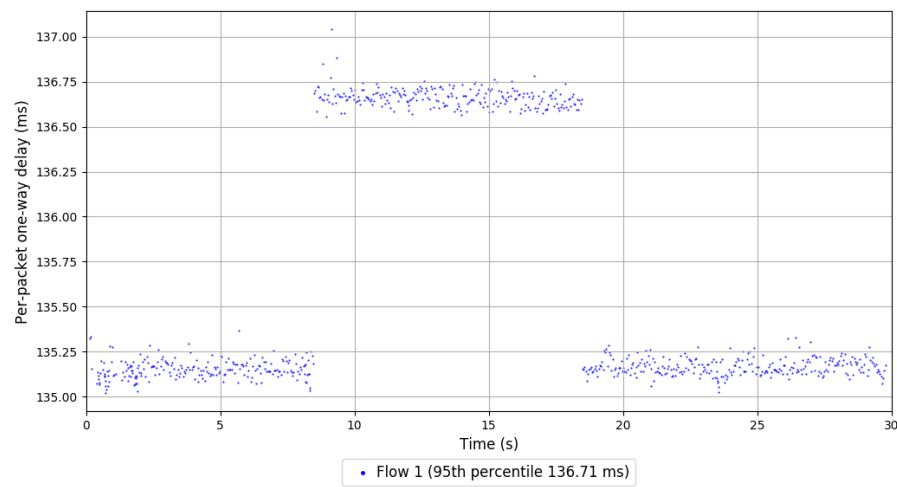
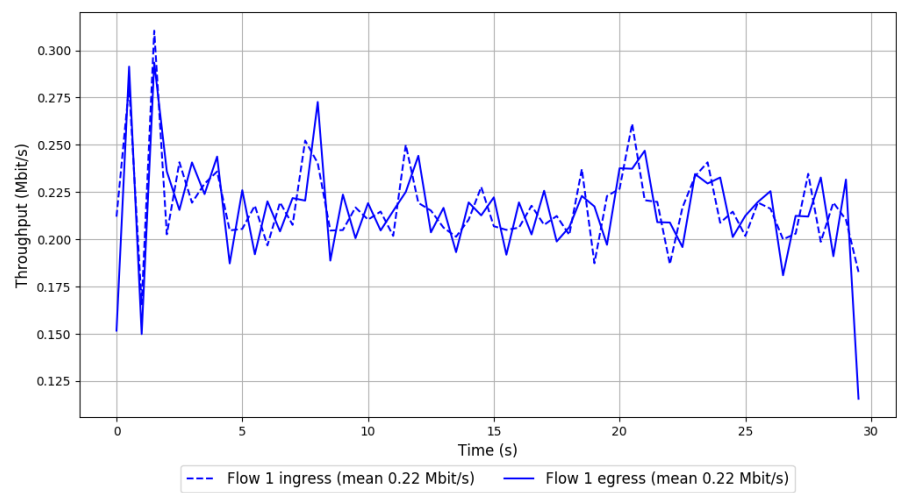


```
Run 1: Statistics of SCReAM

Start at: 2018-03-27 12:24:04
End at: 2018-03-27 12:24:34

# Below is generated by plot.py at 2018-03-27 17:58:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.709 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.709 ms
Loss rate: 0.89%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-03-27 12:39:38

End at: 2018-03-27 12:40:08

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.500 ms

Loss rate: 0.89%

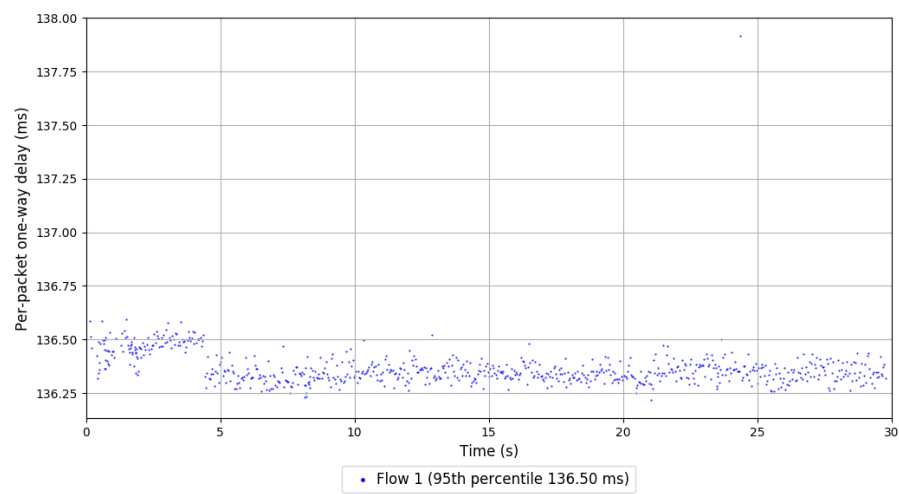
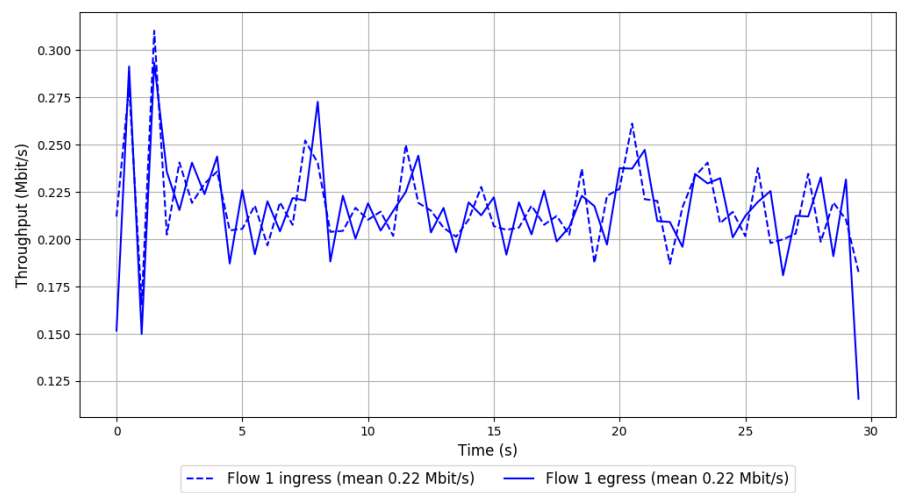
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.500 ms

Loss rate: 0.89%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-03-27 12:55:20

End at: 2018-03-27 12:55:50

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.794 ms

Loss rate: 0.89%

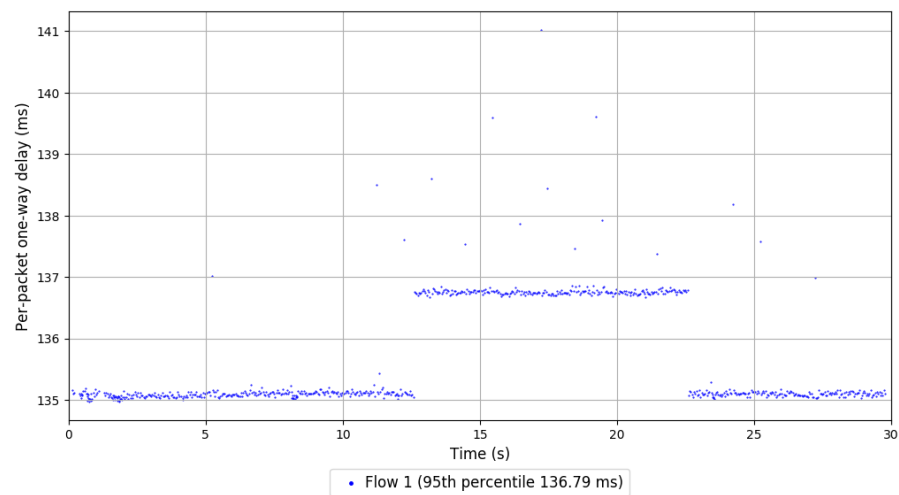
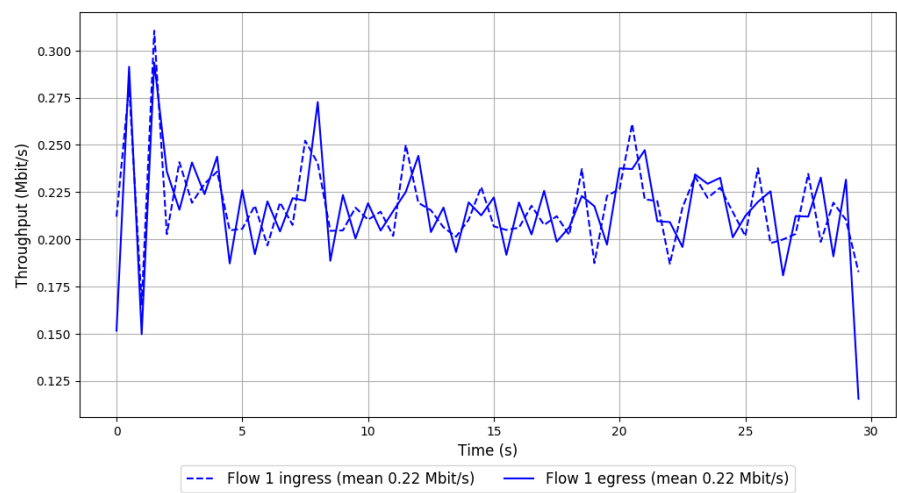
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.794 ms

Loss rate: 0.89%

Run 3: Report of SReAM — Data Link

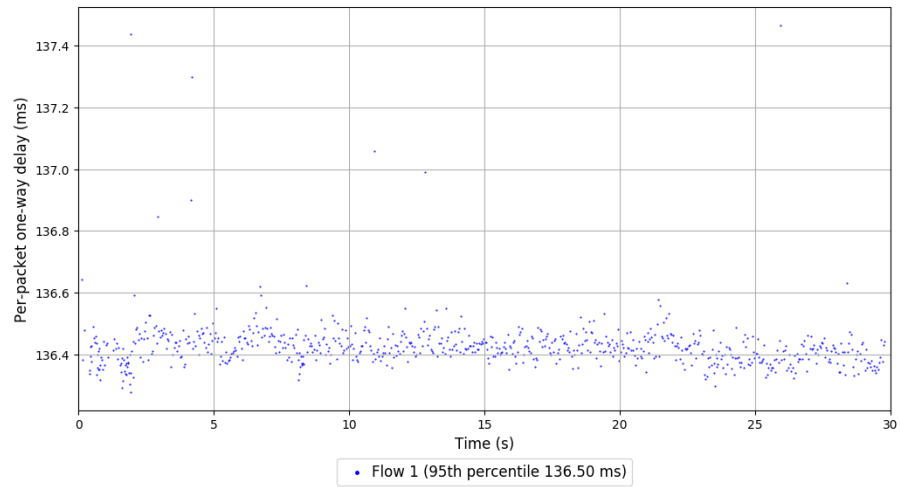
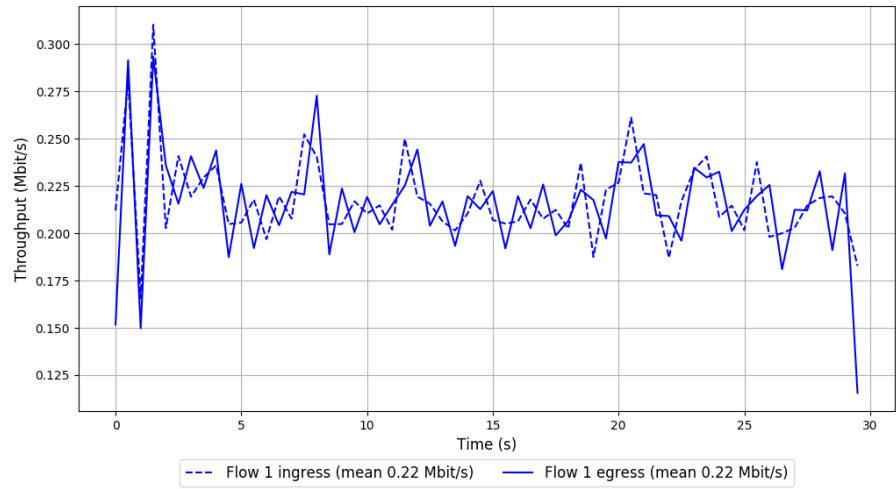


```
Run 4: Statistics of SCReAM

Start at: 2018-03-27 13:11:00
End at: 2018-03-27 13:11:30

# Below is generated by plot.py at 2018-03-27 17:58:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.504 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.504 ms
Loss rate: 0.89%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-03-27 13:26:53

End at: 2018-03-27 13:27:23

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.812 ms

Loss rate: 0.89%

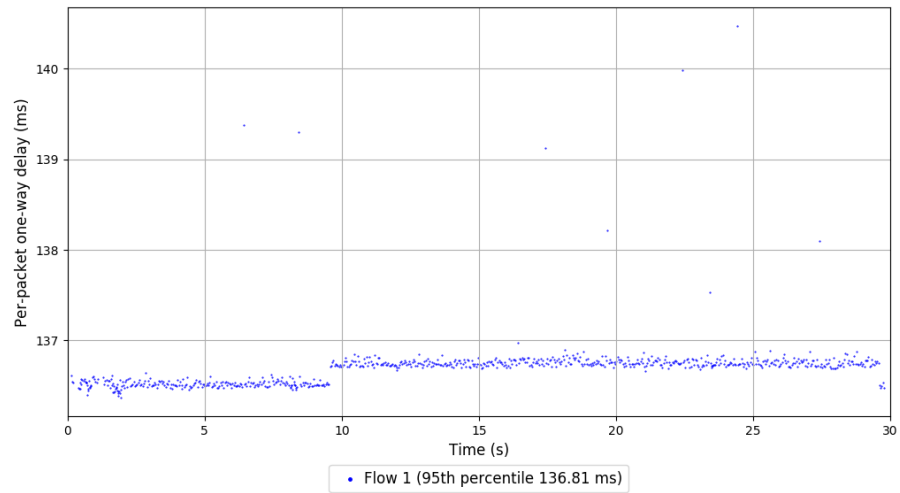
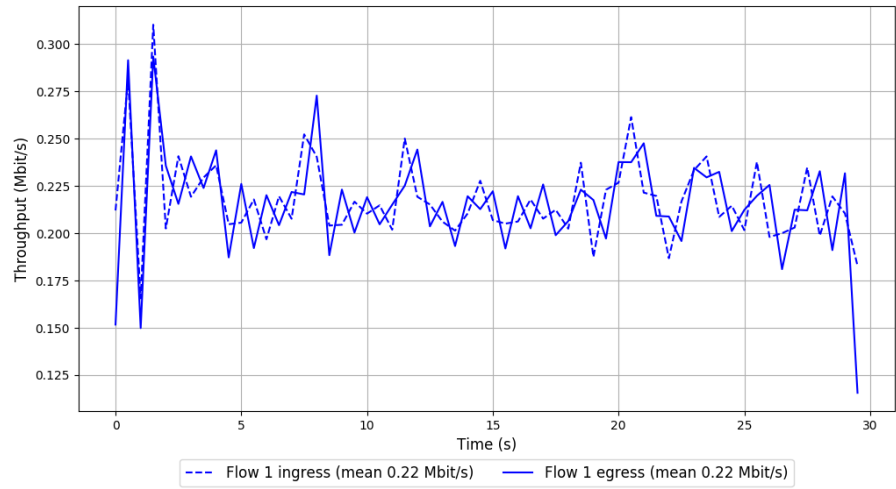
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.812 ms

Loss rate: 0.89%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-03-27 13:42:53

End at: 2018-03-27 13:43:23

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.782 ms

Loss rate: 0.89%

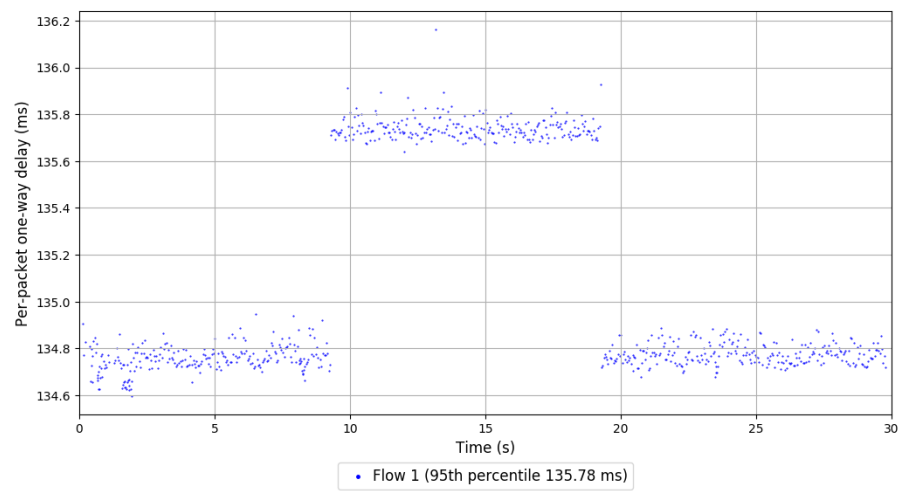
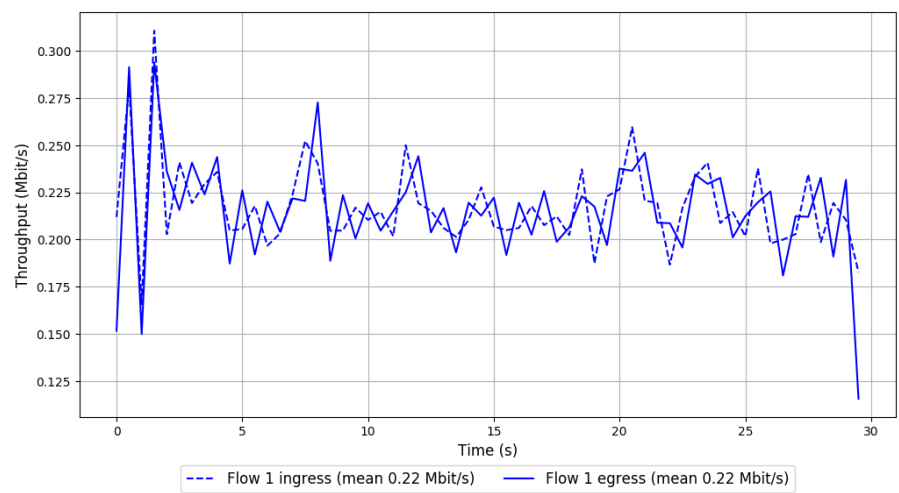
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.782 ms

Loss rate: 0.89%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-03-27 13:58:32

End at: 2018-03-27 13:59:02

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.607 ms

Loss rate: 0.89%

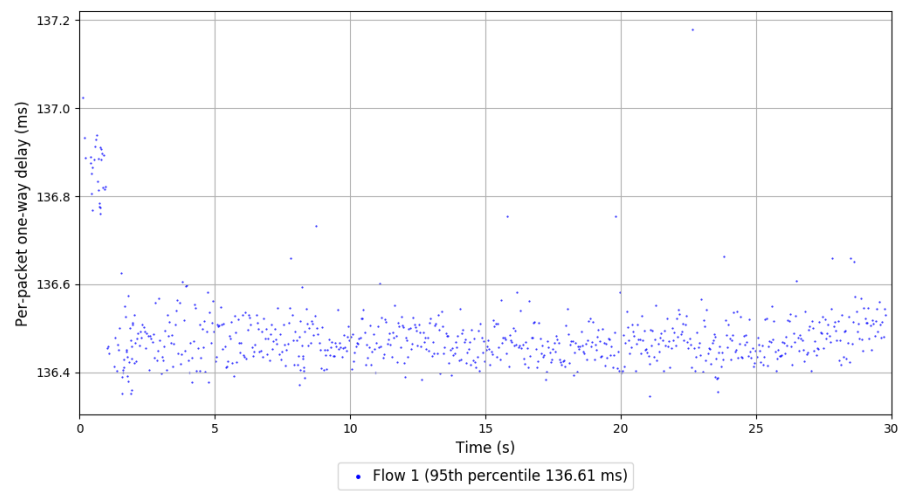
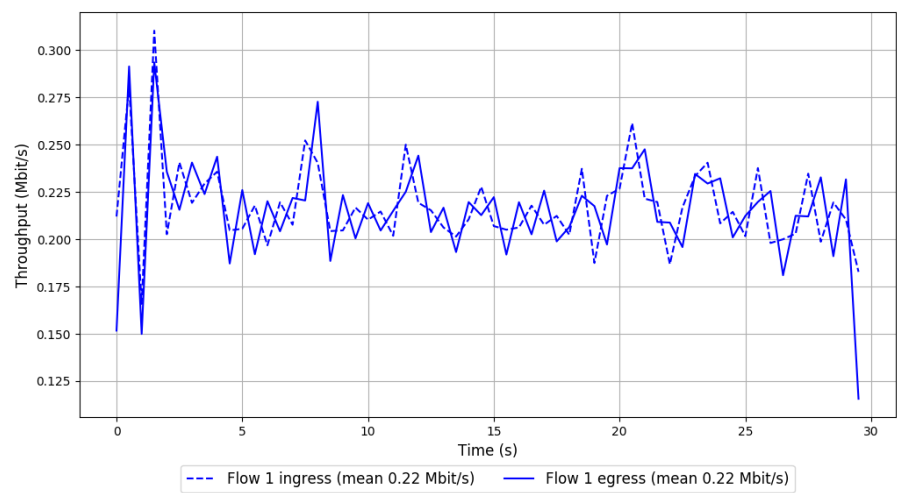
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.607 ms

Loss rate: 0.89%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-03-27 14:14:25

End at: 2018-03-27 14:14:55

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.266 ms

Loss rate: 0.89%

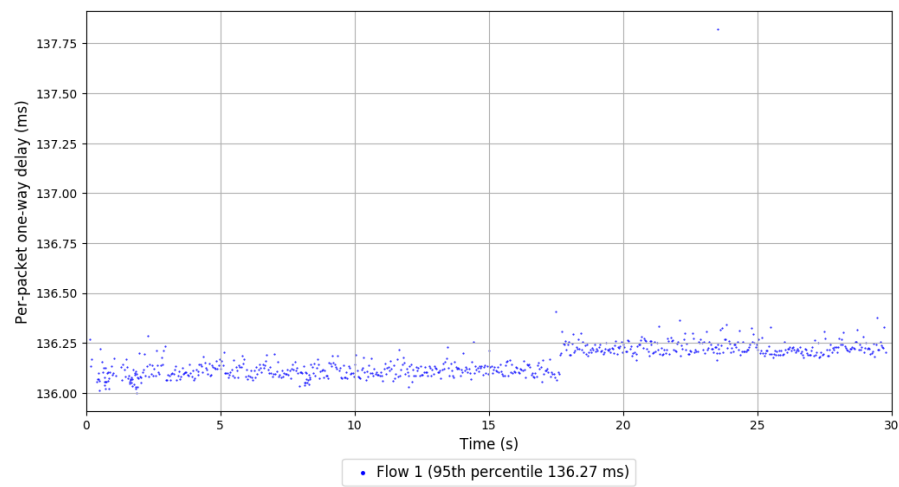
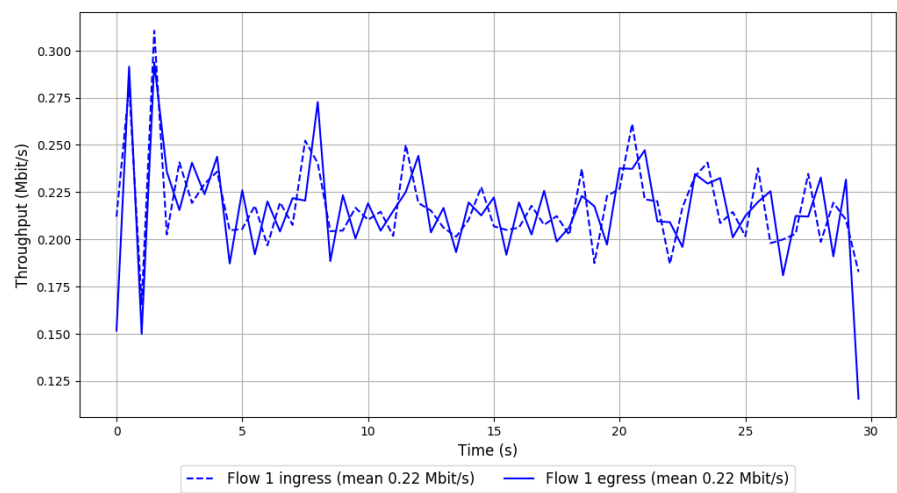
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.266 ms

Loss rate: 0.89%

Run 8: Report of SCRaM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-03-27 14:30:20

End at: 2018-03-27 14:30:50

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.884 ms

Loss rate: 0.89%

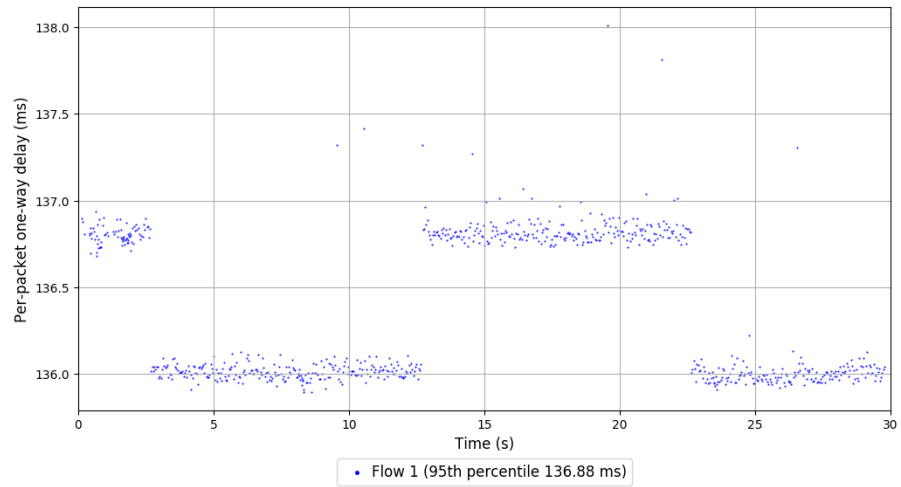
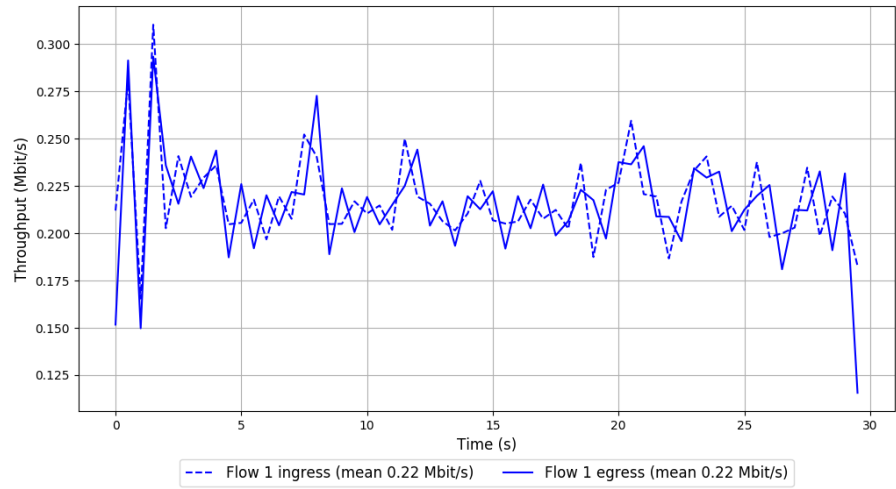
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.884 ms

Loss rate: 0.89%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-03-27 14:46:11

End at: 2018-03-27 14:46:41

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.325 ms

Loss rate: 0.89%

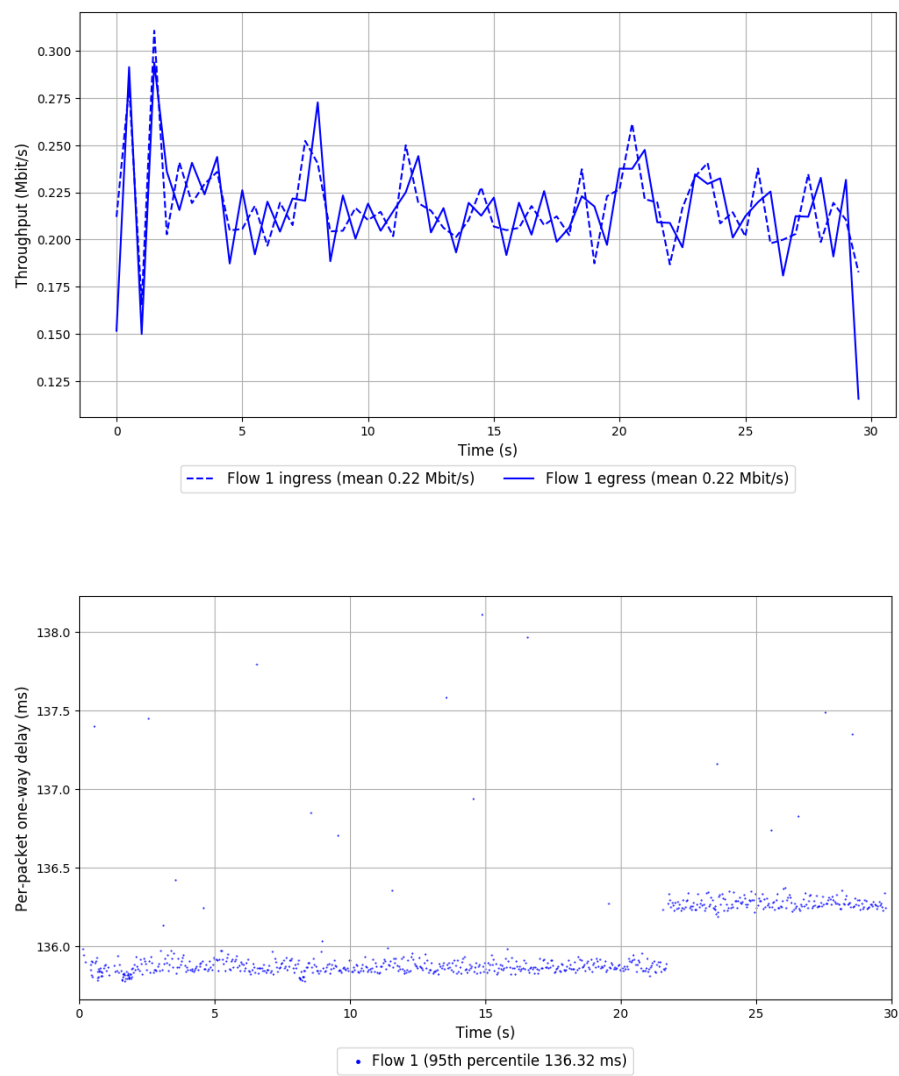
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.325 ms

Loss rate: 0.89%

Run 10: Report of SReAM — Data Link

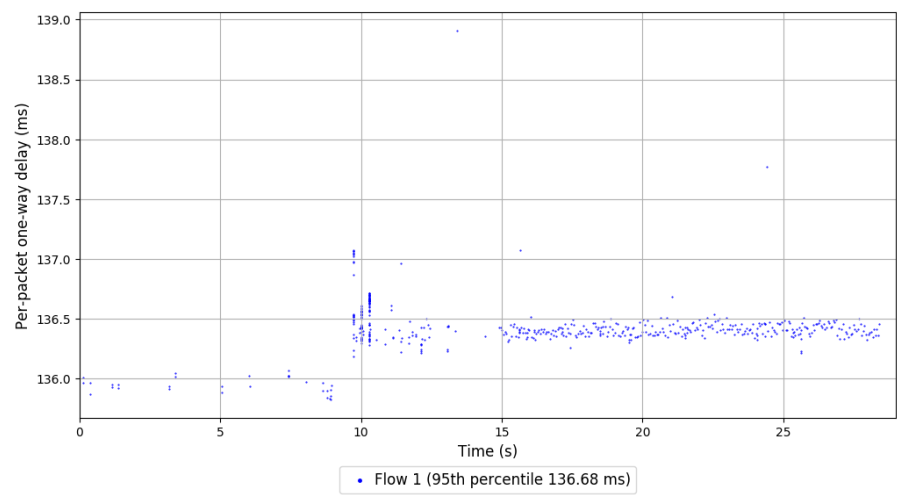
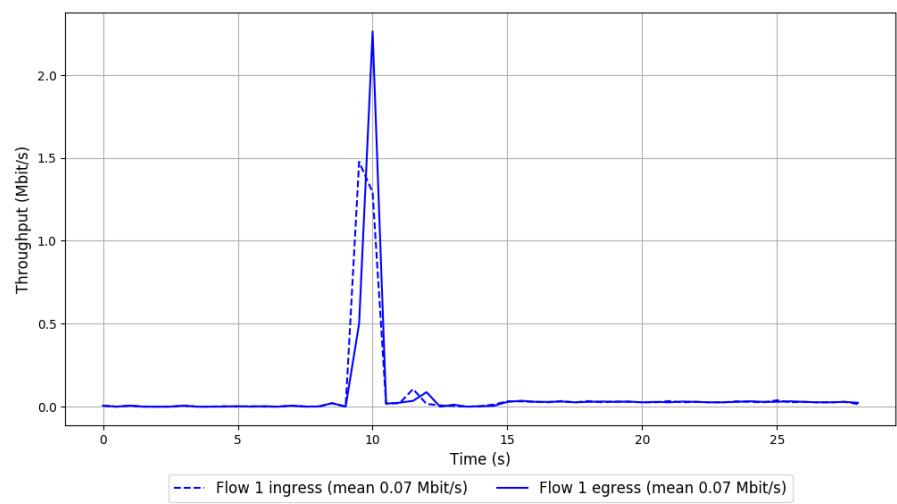


```
Run 1: Statistics of WebRTC media

Start at: 2018-03-27 12:21:55
End at: 2018-03-27 12:22:25

# Below is generated by plot.py at 2018-03-27 17:58:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 136.680 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 136.680 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-03-27 12:37:29

End at: 2018-03-27 12:37:59

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.706 ms

Loss rate: 0.00%

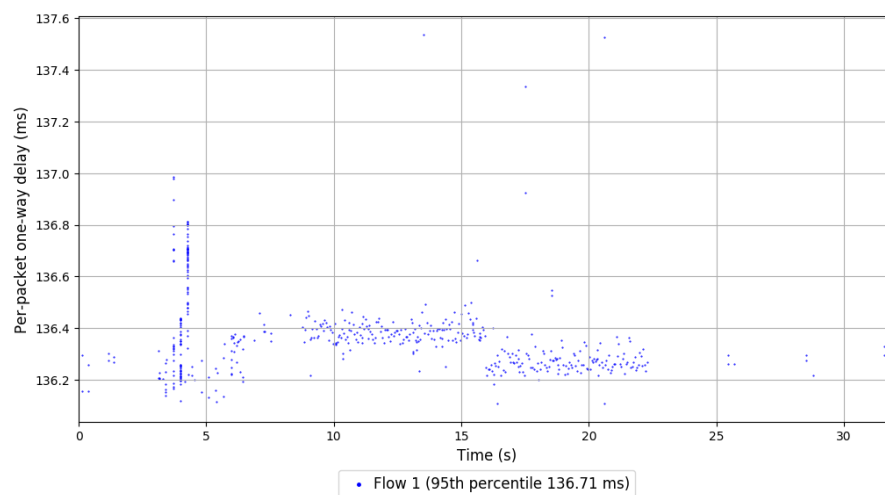
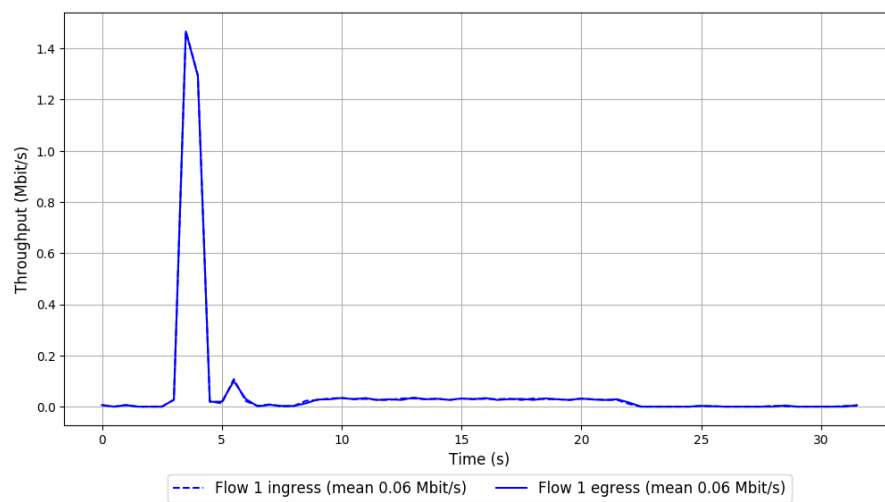
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.706 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-03-27 12:53:11

End at: 2018-03-27 12:53:41

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.745 ms

Loss rate: 0.00%

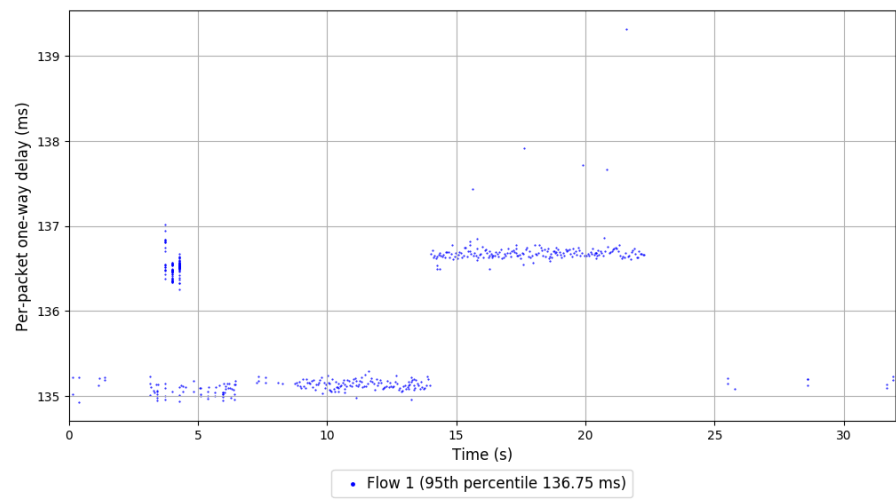
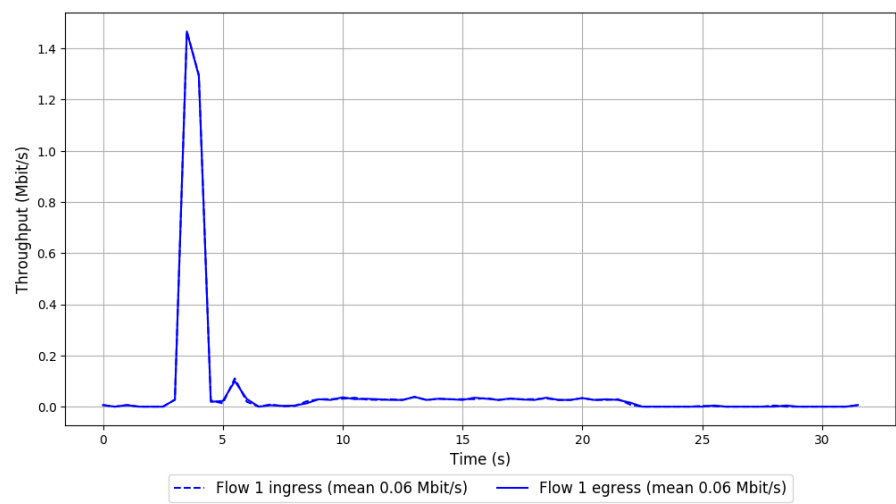
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.745 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-03-27 13:08:52

End at: 2018-03-27 13:09:22

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.847 ms

Loss rate: 0.00%

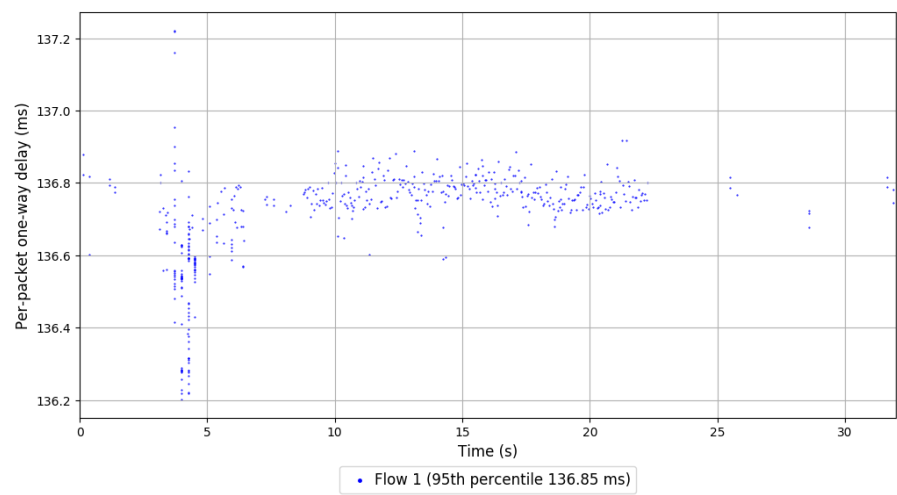
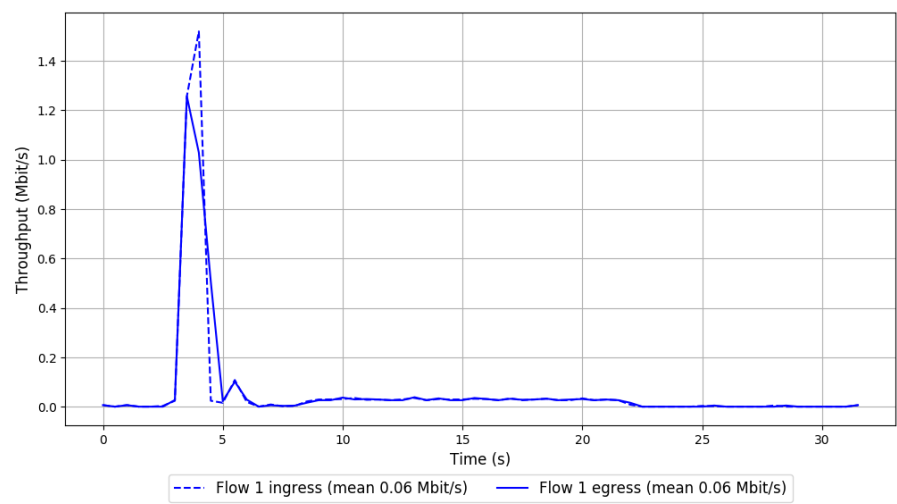
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.847 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-03-27 13:24:26

End at: 2018-03-27 13:24:56

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.755 ms

Loss rate: 0.00%

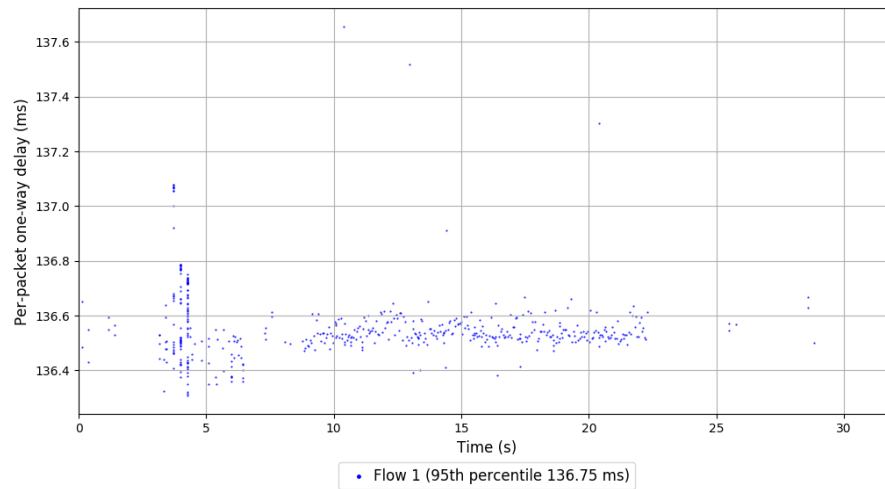
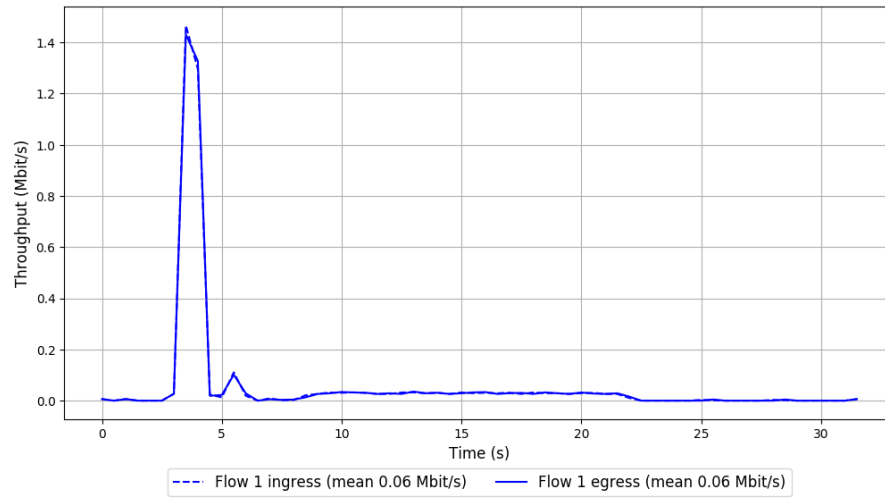
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.755 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-03-27 13:40:25

End at: 2018-03-27 13:40:55

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.235 ms

Loss rate: 0.00%

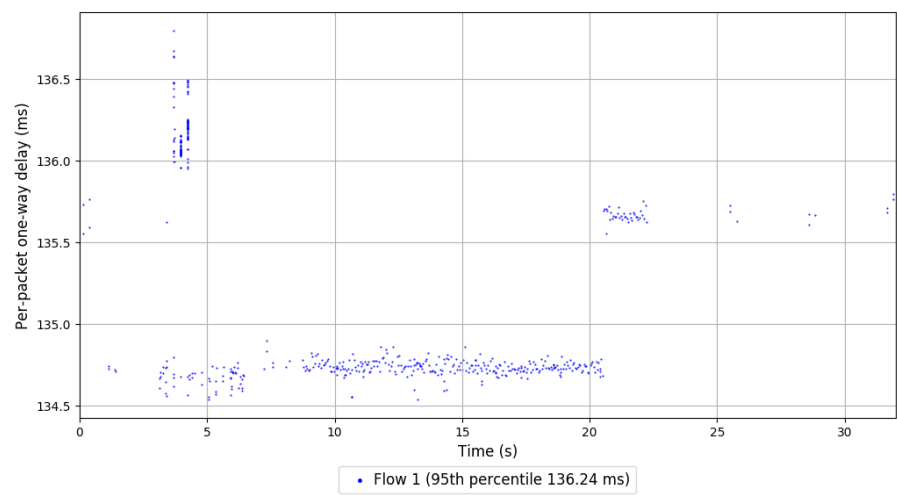
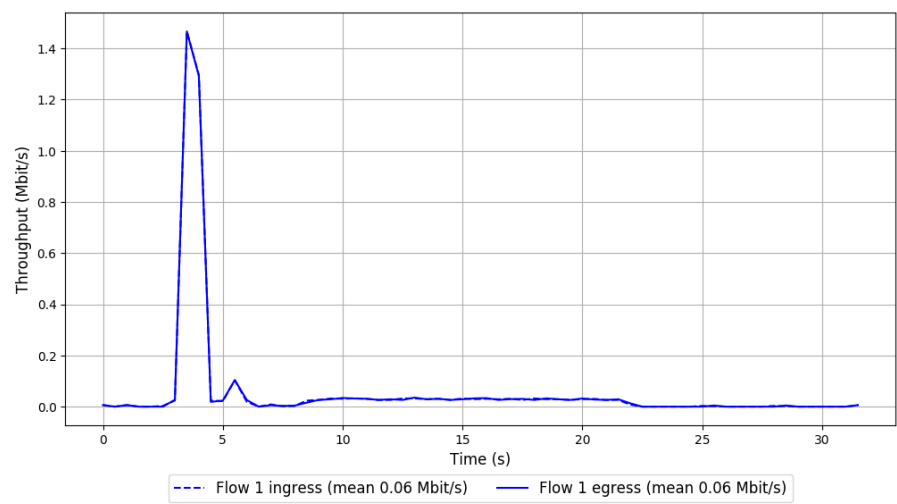
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.235 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-03-27 13:56:24

End at: 2018-03-27 13:56:54

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.979 ms

Loss rate: 0.00%

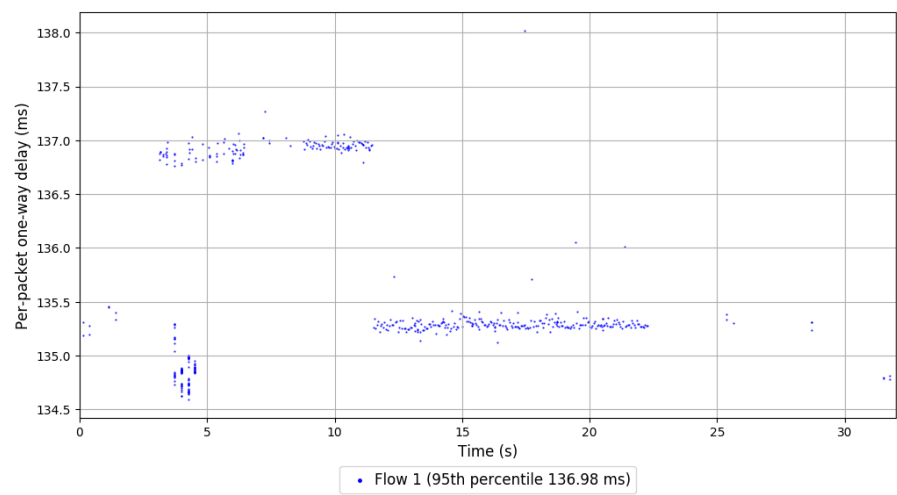
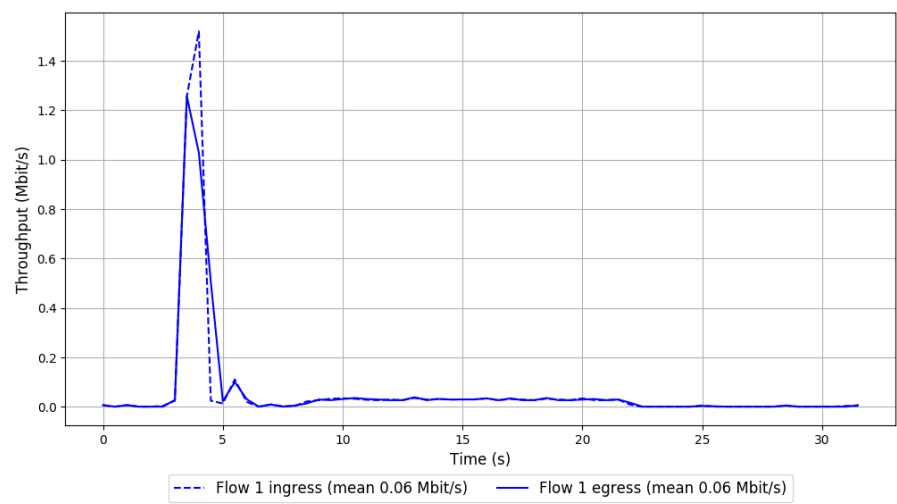
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.979 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-03-27 14:11:58

End at: 2018-03-27 14:12:28

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.867 ms

Loss rate: 0.00%

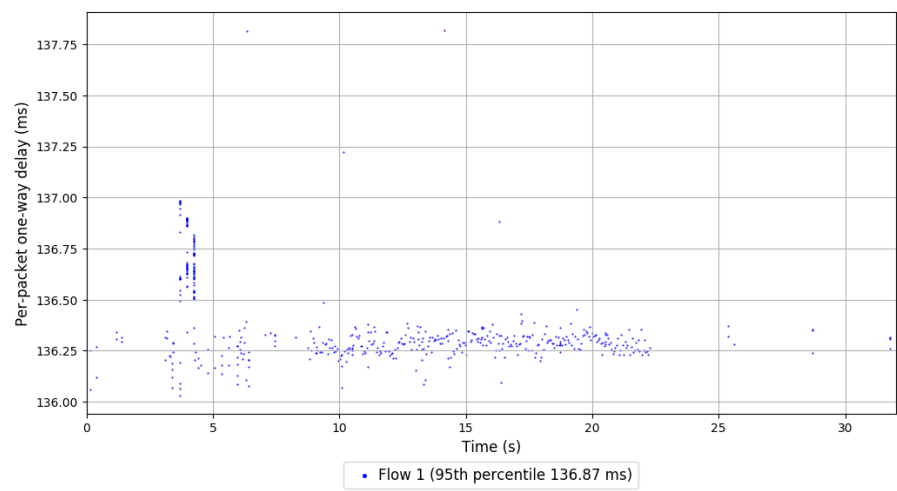
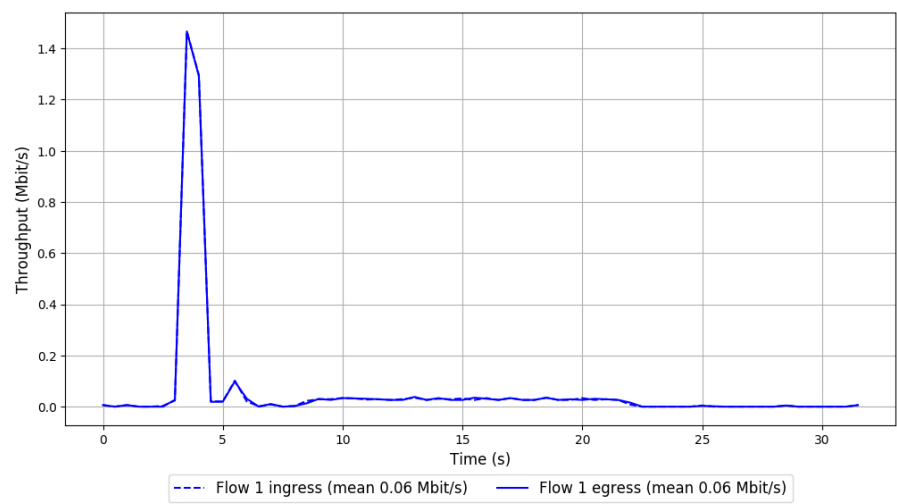
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.867 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-03-27 14:27:55

End at: 2018-03-27 14:28:25

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.978 ms

Loss rate: 0.00%

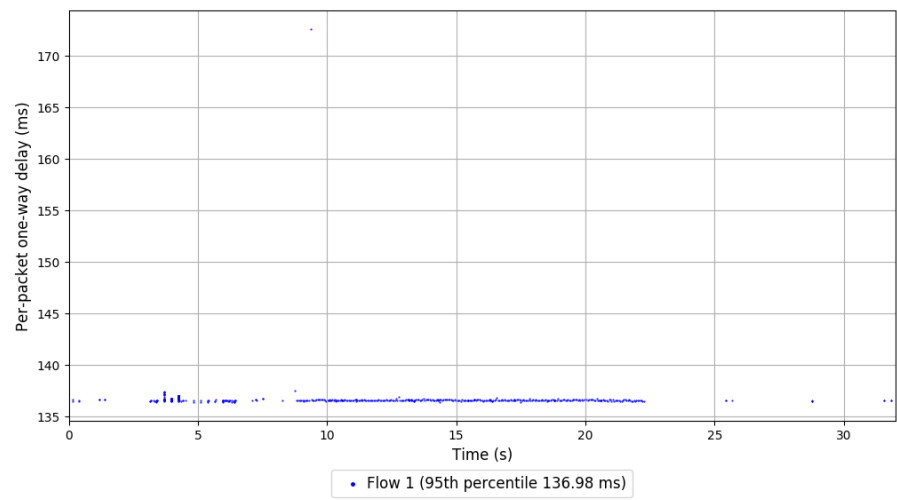
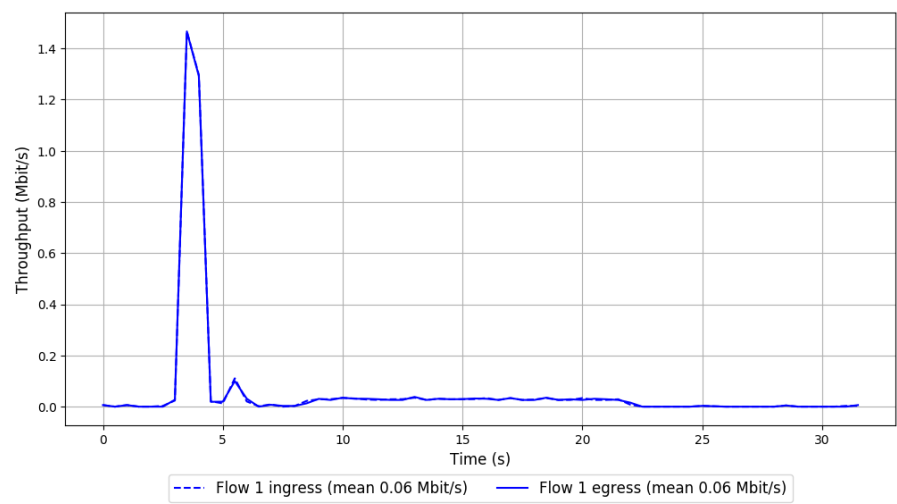
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.978 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-27 14:43:44

End at: 2018-03-27 14:44:14

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.820 ms

Loss rate: 0.00%

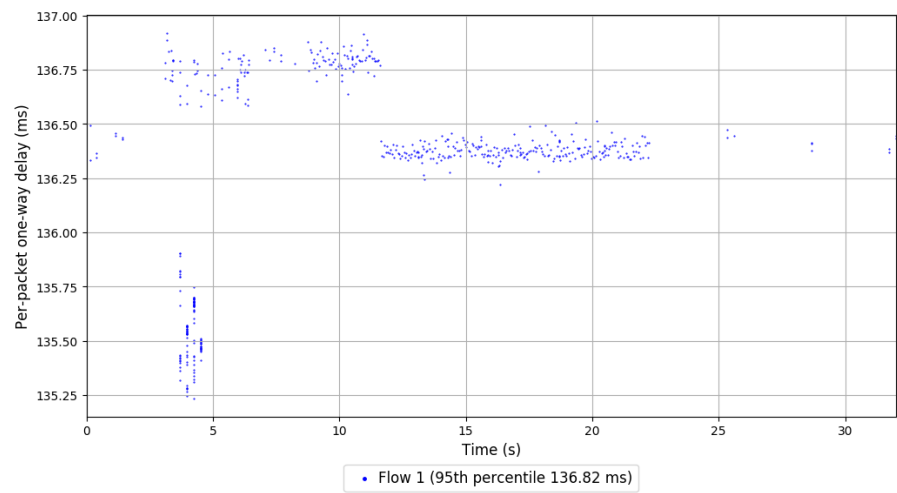
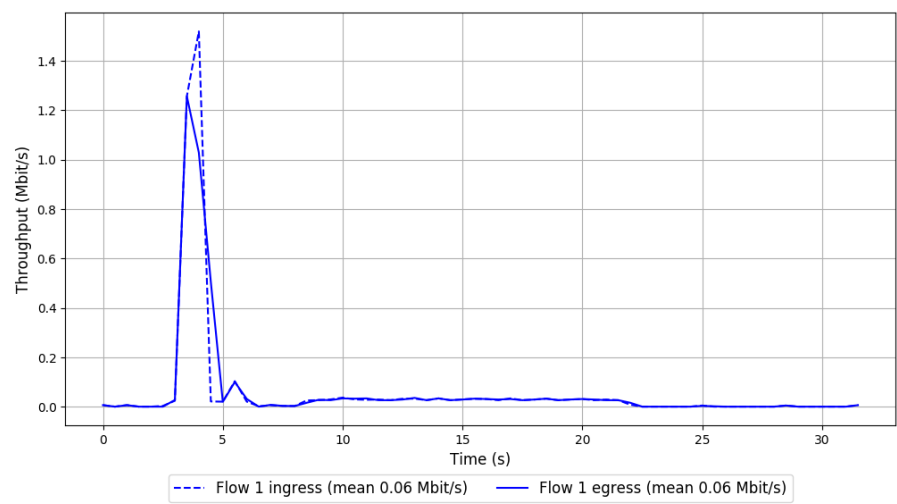
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.820 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-03-27 12:19:59

End at: 2018-03-27 12:20:29

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.35 Mbit/s

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

Loss rate: 0.99%

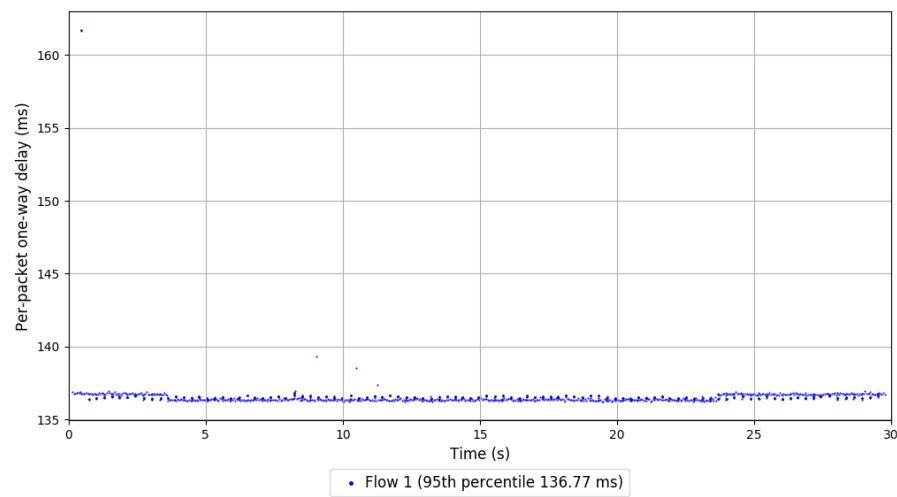
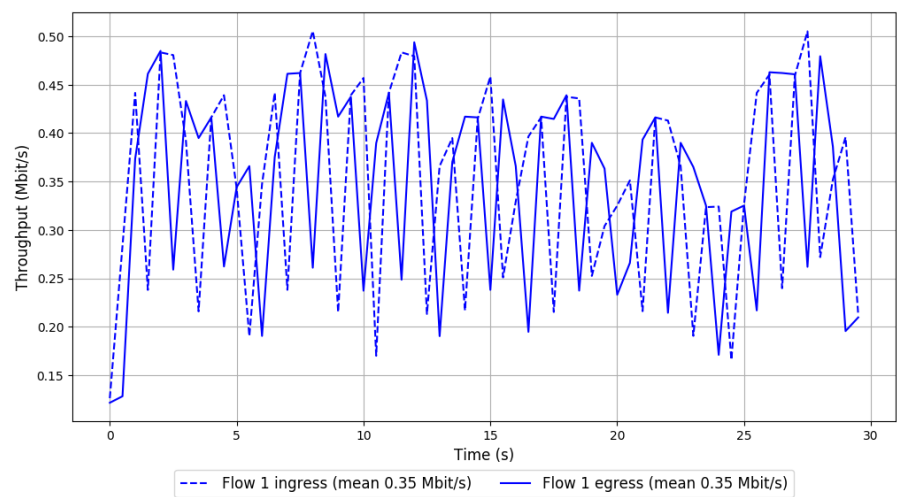
-- Flow 1:

Average throughput: 0.35 Mbit/s

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

Loss rate: 0.99%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-03-27 12:35:32

End at: 2018-03-27 12:36:02

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.591 ms

Loss rate: 0.89%

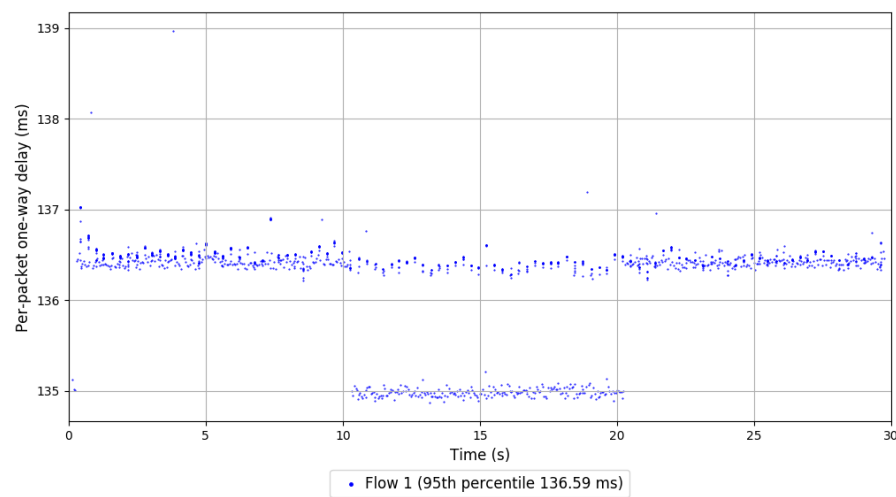
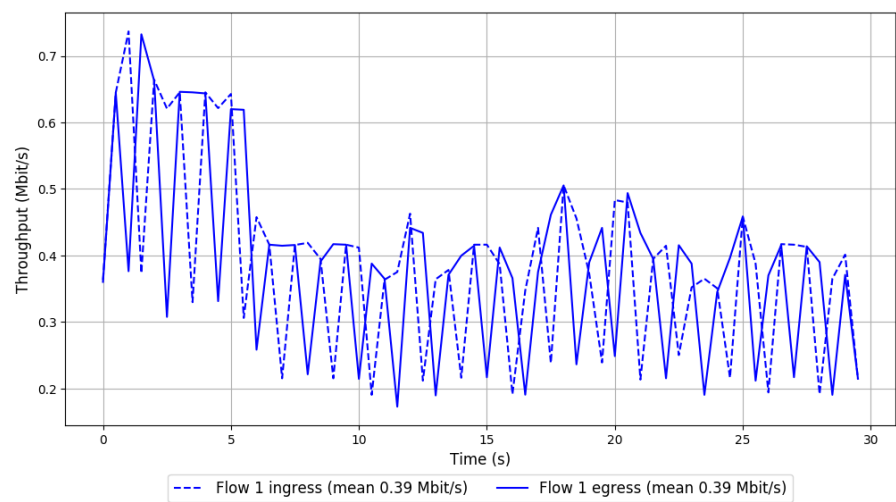
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.591 ms

Loss rate: 0.89%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-03-27 12:51:15

End at: 2018-03-27 12:51:45

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.659 ms

Loss rate: 0.91%

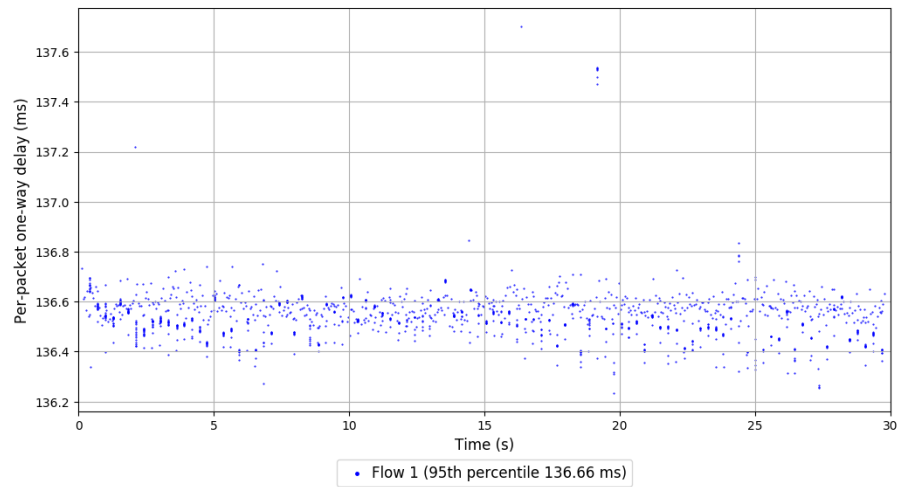
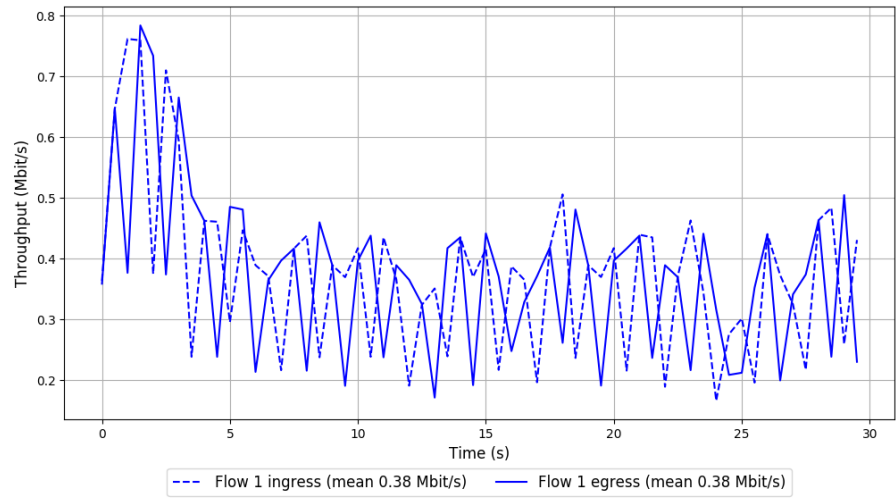
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.659 ms

Loss rate: 0.91%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-03-27 13:06:55

End at: 2018-03-27 13:07:25

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 136.701 ms

Loss rate: 0.85%

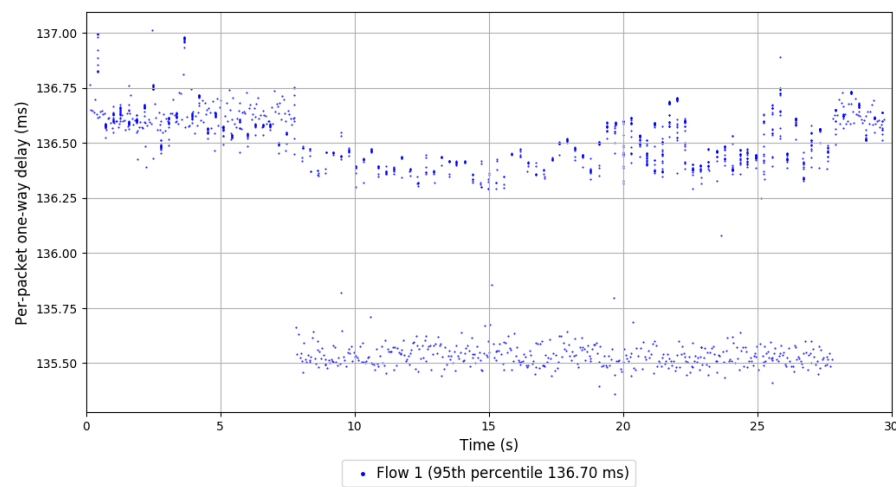
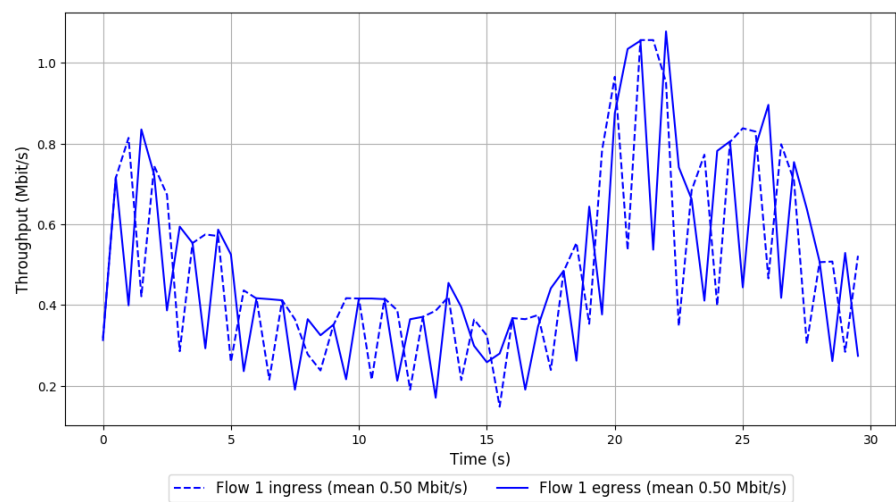
-- Flow 1:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 136.701 ms

Loss rate: 0.85%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-03-27 13:22:28

End at: 2018-03-27 13:22:58

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

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

Loss rate: 0.78%

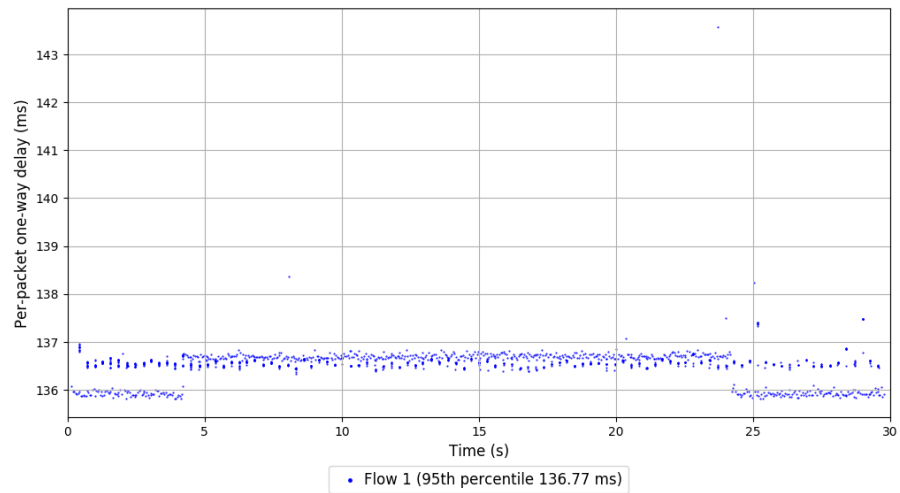
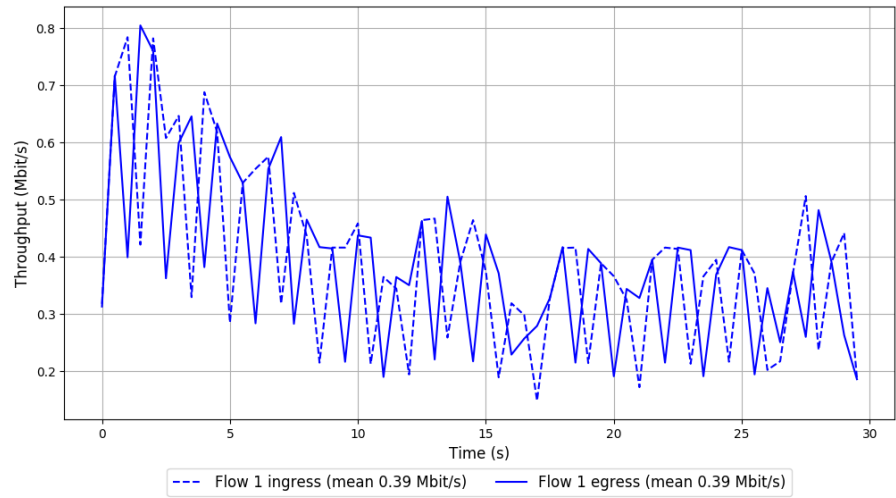
-- Flow 1:

Average throughput: 0.39 Mbit/s

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

Loss rate: 0.78%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-03-27 13:38:28

End at: 2018-03-27 13:38:58

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 136.868 ms

Loss rate: 0.77%

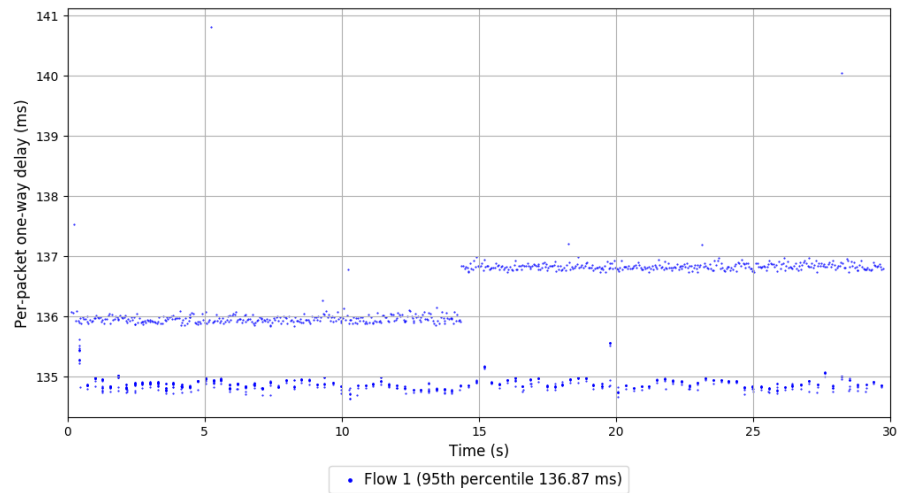
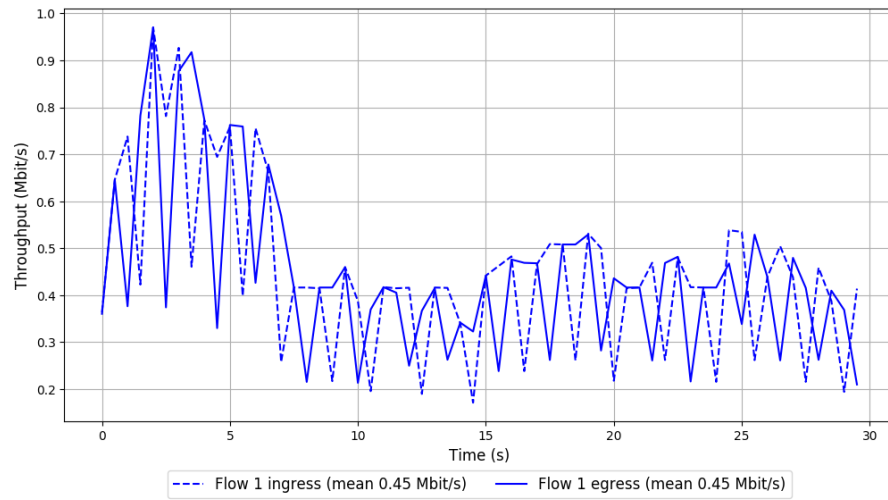
-- Flow 1:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 136.868 ms

Loss rate: 0.77%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-03-27 13:54:25

End at: 2018-03-27 13:54:55

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.062 ms

Loss rate: 0.03%

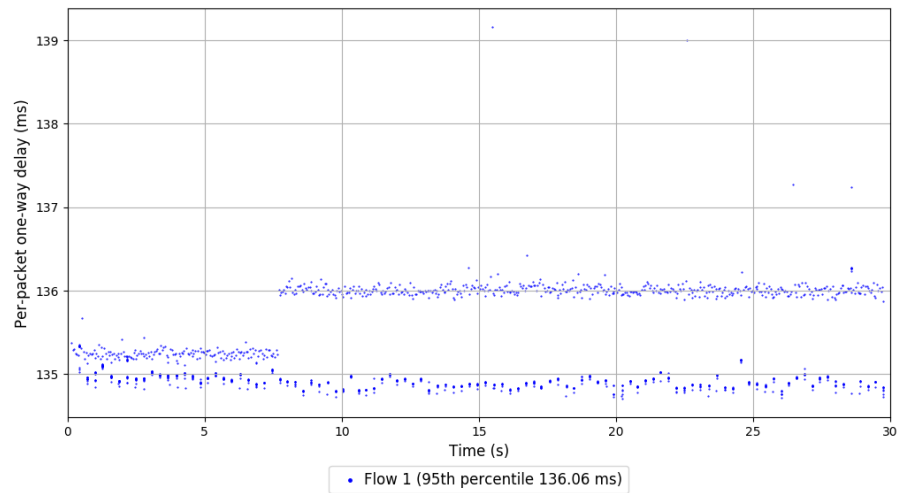
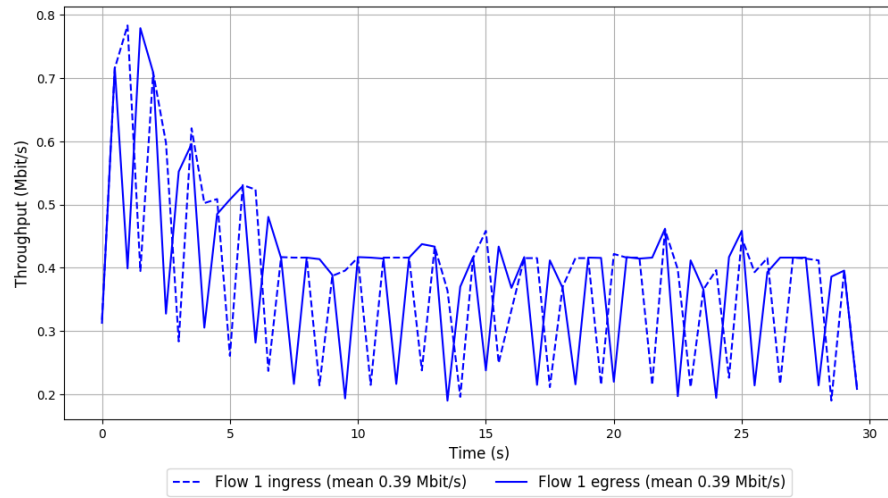
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.062 ms

Loss rate: 0.03%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-03-27 14:10:00

End at: 2018-03-27 14:10:30

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.845 ms

Loss rate: 0.89%

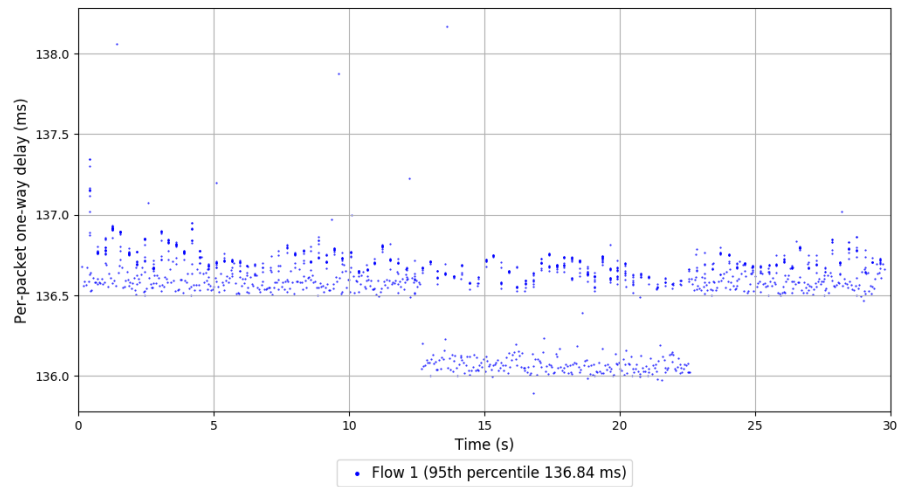
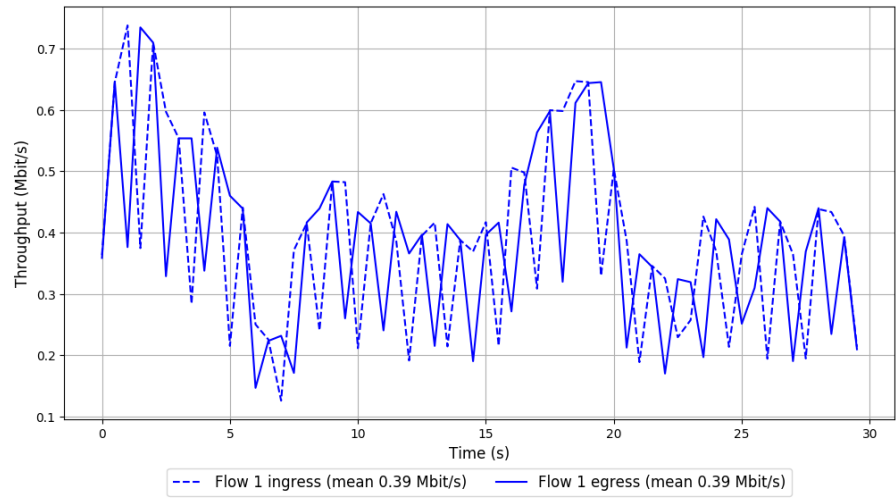
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.845 ms

Loss rate: 0.89%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-03-27 14:25:58

End at: 2018-03-27 14:26:28

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.821 ms

Loss rate: 0.73%

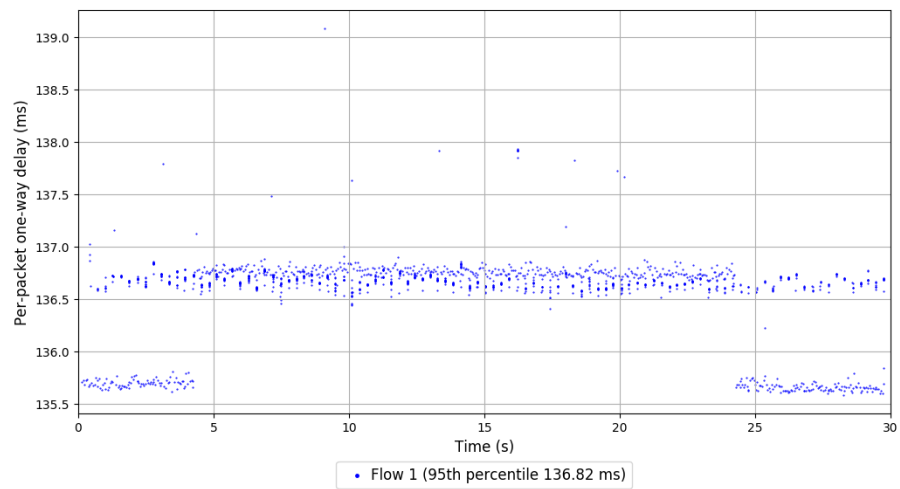
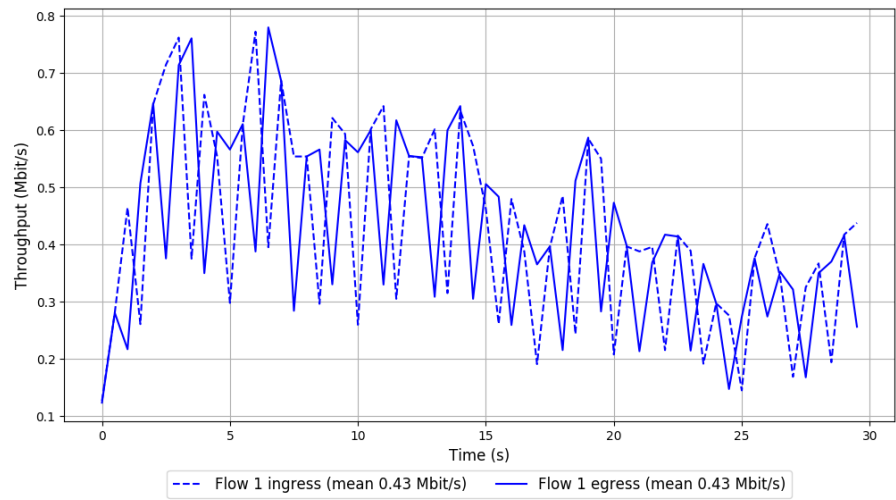
-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.821 ms

Loss rate: 0.73%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-03-27 14:41:45

End at: 2018-03-27 14:42:15

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.46 Mbit/s

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

Loss rate: 0.16%

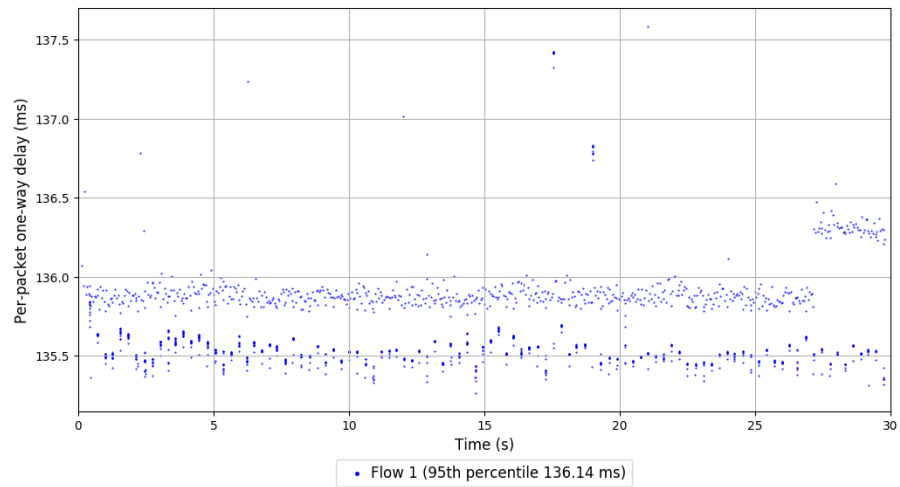
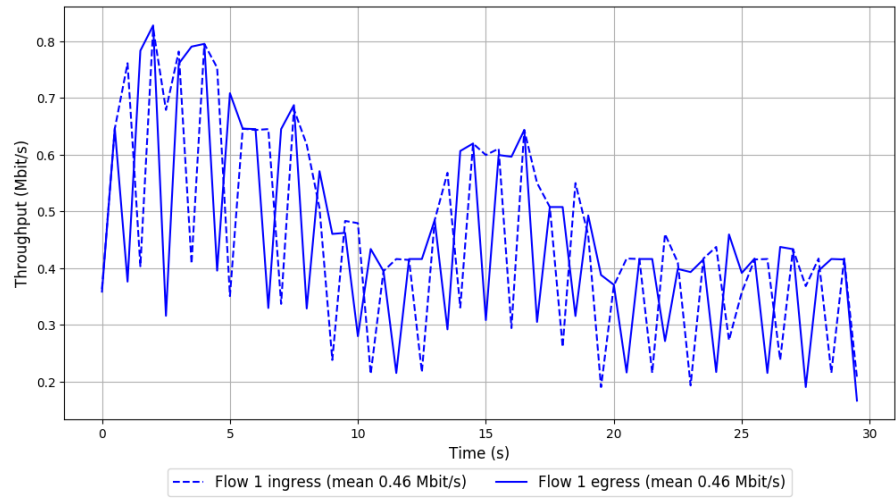
-- Flow 1:

Average throughput: 0.46 Mbit/s

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

Loss rate: 0.16%

Run 10: Report of Sprout — Data Link

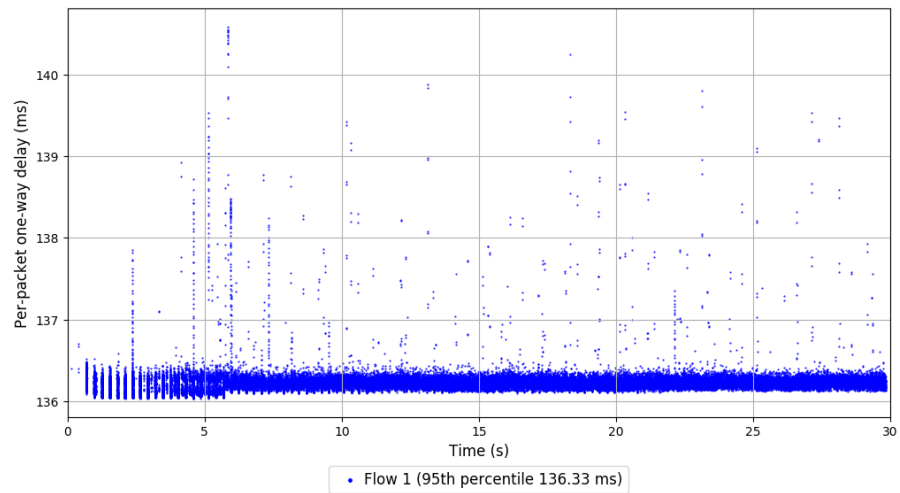
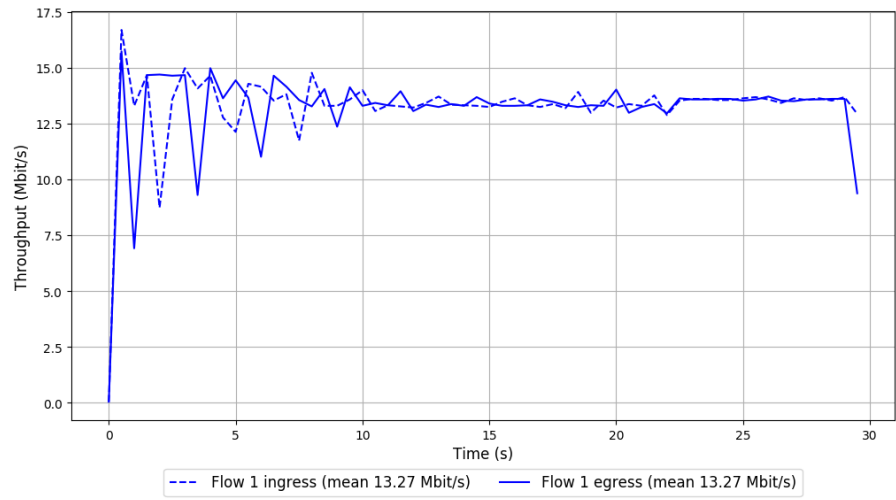


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-03-27 12:22:37
End at: 2018-03-27 12:23:07

# Below is generated by plot.py at 2018-03-27 17:58:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.27 Mbit/s
95th percentile per-packet one-way delay: 136.326 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 13.27 Mbit/s
95th percentile per-packet one-way delay: 136.326 ms
Loss rate: 0.92%
```

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

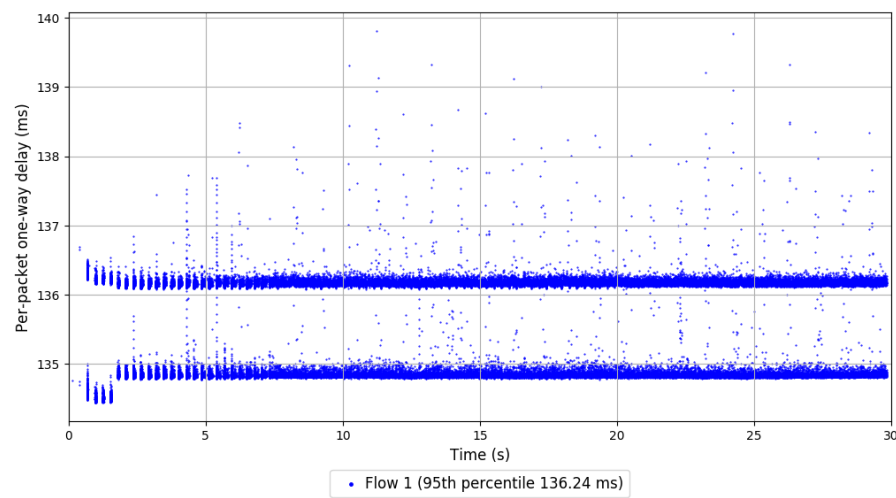
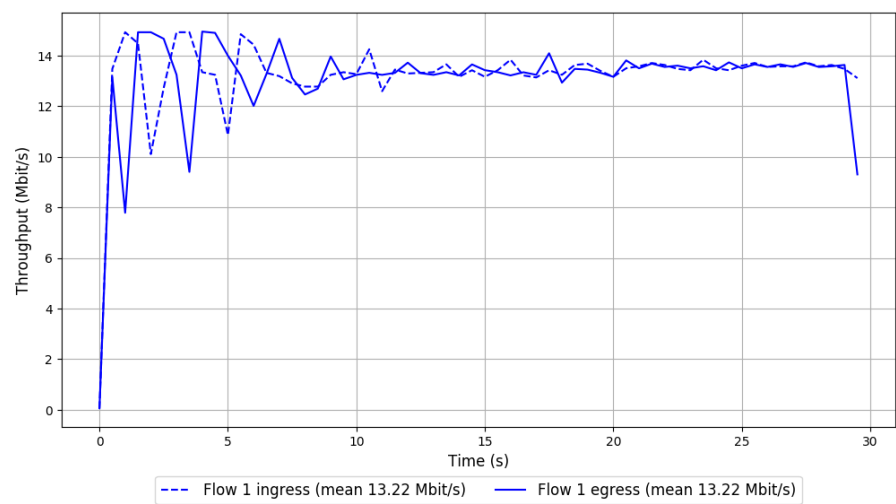


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-03-27 12:38:11
End at: 2018-03-27 12:38:41

# Below is generated by plot.py at 2018-03-27 17:58:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.22 Mbit/s
95th percentile per-packet one-way delay: 136.237 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 13.22 Mbit/s
95th percentile per-packet one-way delay: 136.237 ms
Loss rate: 0.94%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-03-27 12:53:53

End at: 2018-03-27 12:54:23

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.06 Mbit/s

95th percentile per-packet one-way delay: 136.325 ms

Loss rate: 0.95%

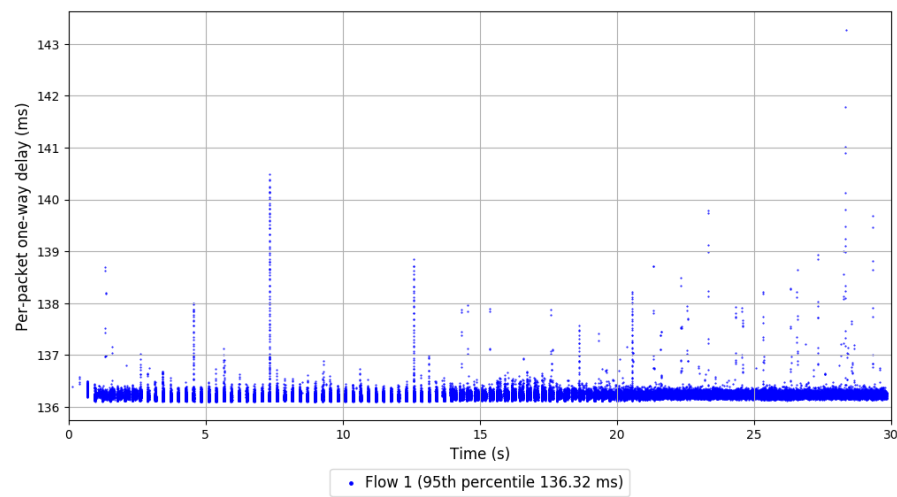
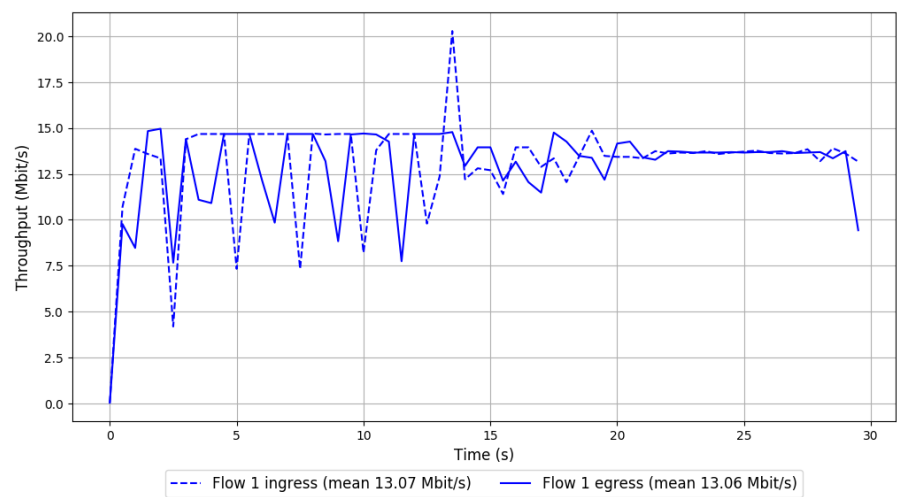
-- Flow 1:

Average throughput: 13.06 Mbit/s

95th percentile per-packet one-way delay: 136.325 ms

Loss rate: 0.95%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-03-27 13:09:34

End at: 2018-03-27 13:10:04

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.71 Mbit/s

95th percentile per-packet one-way delay: 136.414 ms

Loss rate: 0.76%

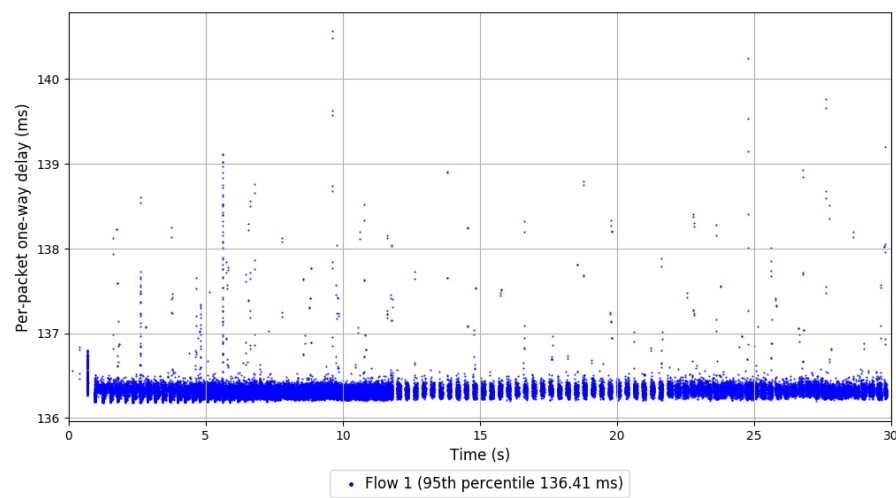
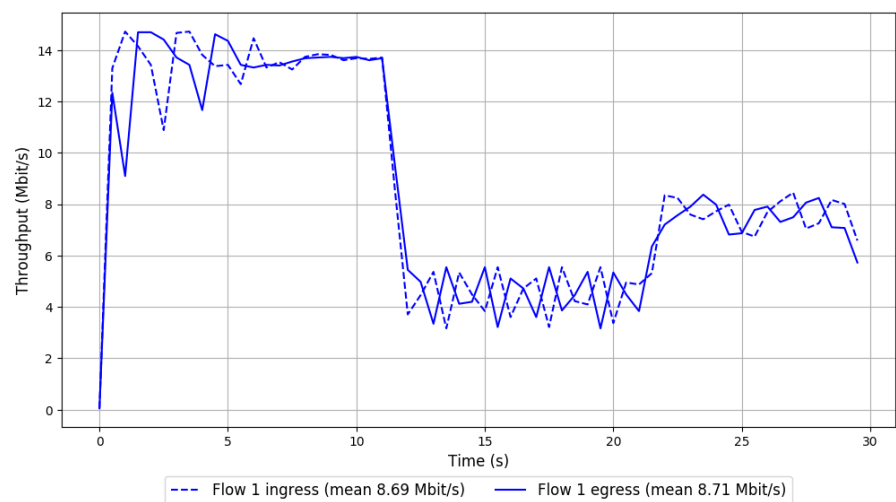
-- Flow 1:

Average throughput: 8.71 Mbit/s

95th percentile per-packet one-way delay: 136.414 ms

Loss rate: 0.76%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-03-27 13:25:07

End at: 2018-03-27 13:25:37

Below is generated by plot.py at 2018-03-27 17:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.22 Mbit/s

95th percentile per-packet one-way delay: 136.566 ms

Loss rate: 0.85%

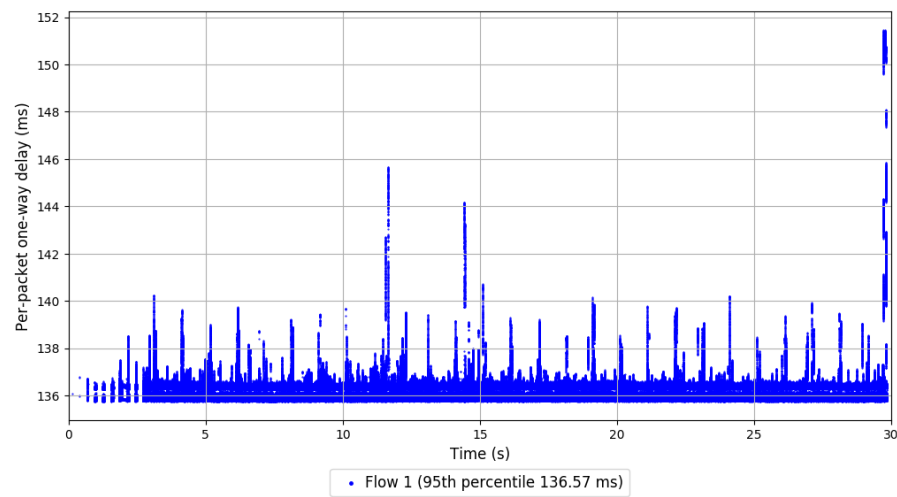
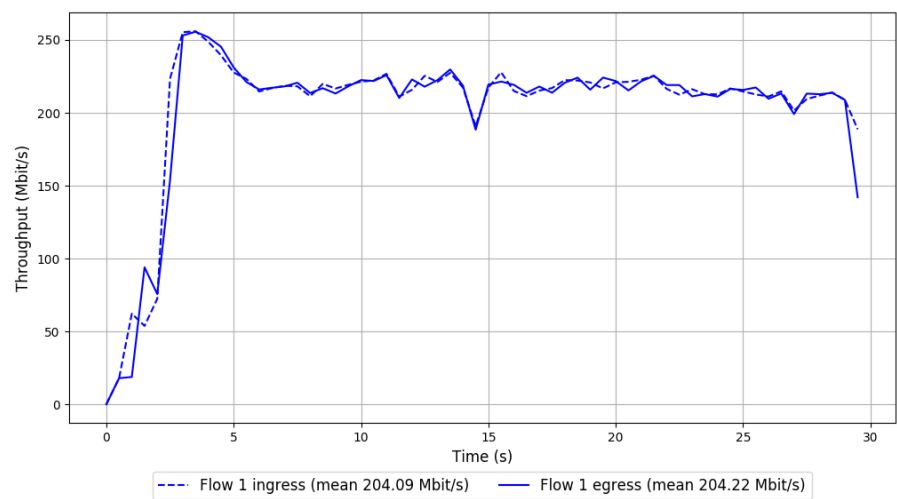
-- Flow 1:

Average throughput: 204.22 Mbit/s

95th percentile per-packet one-way delay: 136.566 ms

Loss rate: 0.85%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-03-27 13:41:06

End at: 2018-03-27 13:41:36

Below is generated by plot.py at 2018-03-27 17:58:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.95 Mbit/s

95th percentile per-packet one-way delay: 135.028 ms

Loss rate: 0.95%

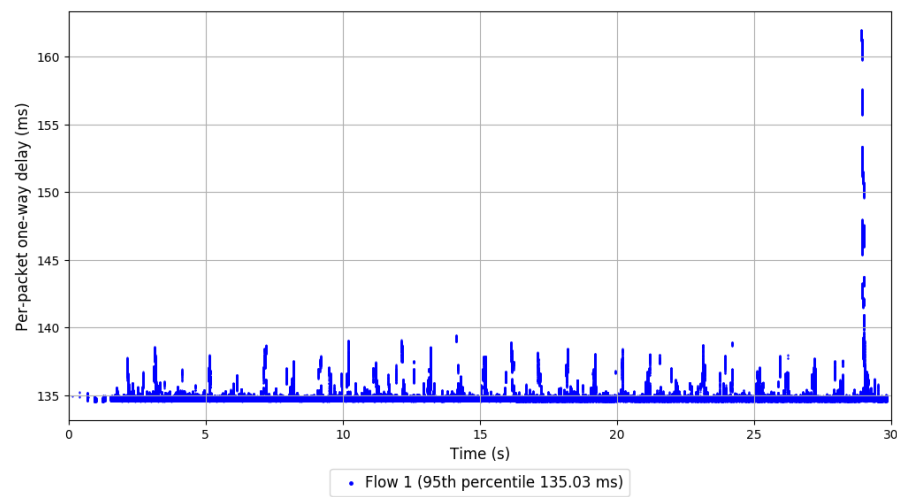
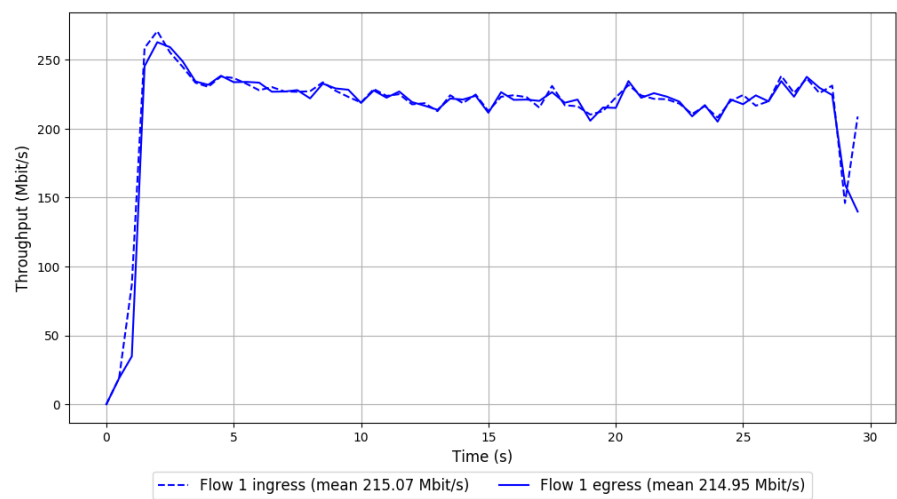
-- Flow 1:

Average throughput: 214.95 Mbit/s

95th percentile per-packet one-way delay: 135.028 ms

Loss rate: 0.95%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-03-27 13:57:05

End at: 2018-03-27 13:57:35

Below is generated by plot.py at 2018-03-27 17:58:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.37 Mbit/s

95th percentile per-packet one-way delay: 134.800 ms

Loss rate: 0.93%

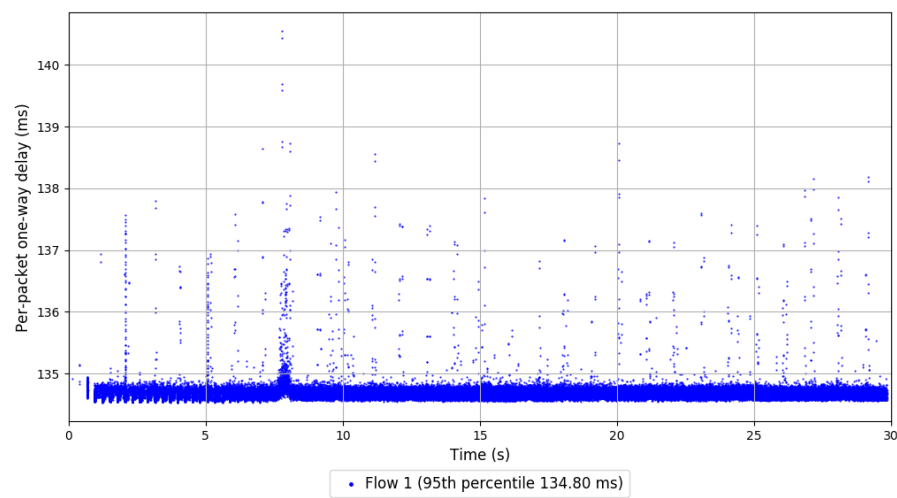
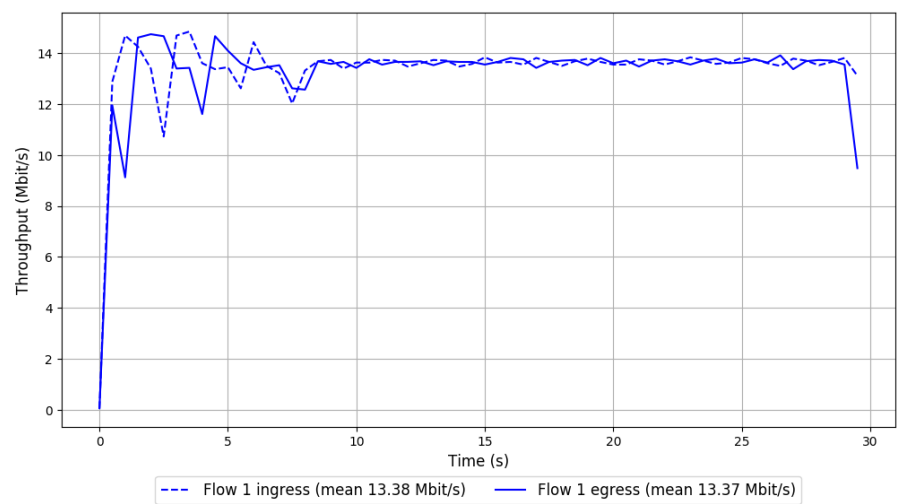
-- Flow 1:

Average throughput: 13.37 Mbit/s

95th percentile per-packet one-way delay: 134.800 ms

Loss rate: 0.93%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-03-27 14:12:40

End at: 2018-03-27 14:13:10

Below is generated by plot.py at 2018-03-27 17:58:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.58 Mbit/s

95th percentile per-packet one-way delay: 136.860 ms

Loss rate: 1.05%

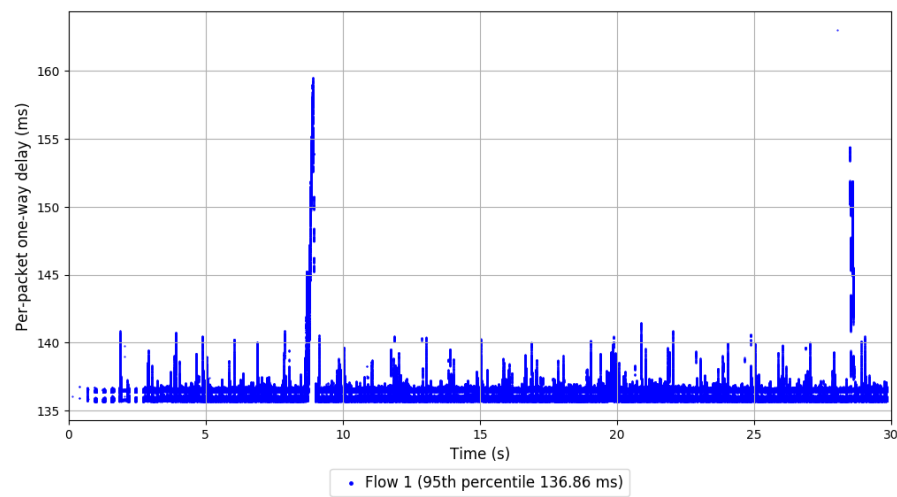
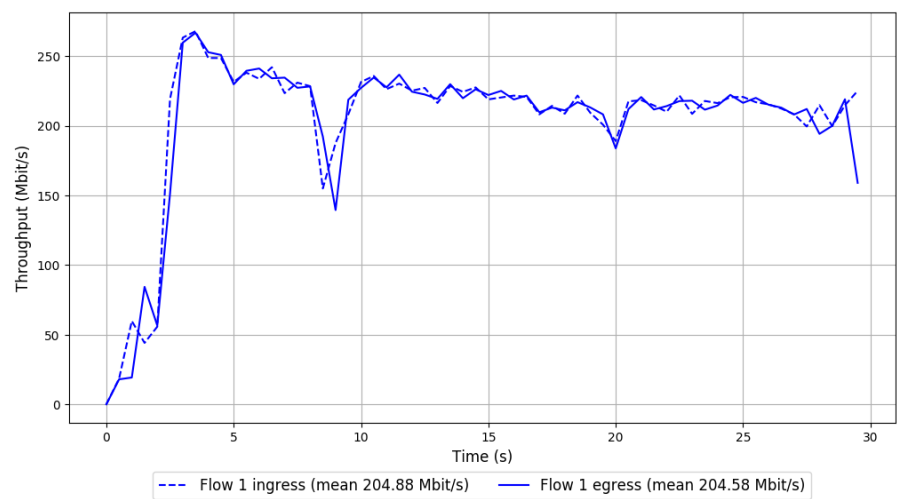
-- Flow 1:

Average throughput: 204.58 Mbit/s

95th percentile per-packet one-way delay: 136.860 ms

Loss rate: 1.05%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-03-27 14:28:36

End at: 2018-03-27 14:29:06

Below is generated by plot.py at 2018-03-27 17:58:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.92 Mbit/s

95th percentile per-packet one-way delay: 136.925 ms

Loss rate: 1.05%

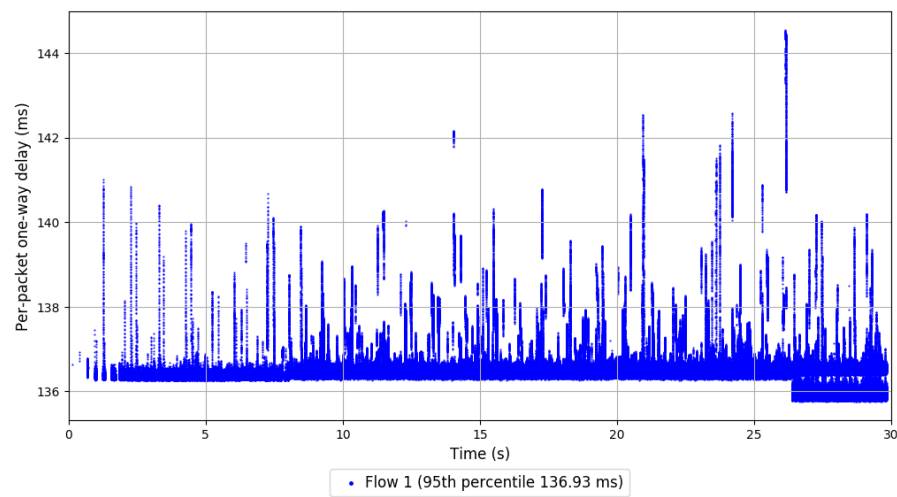
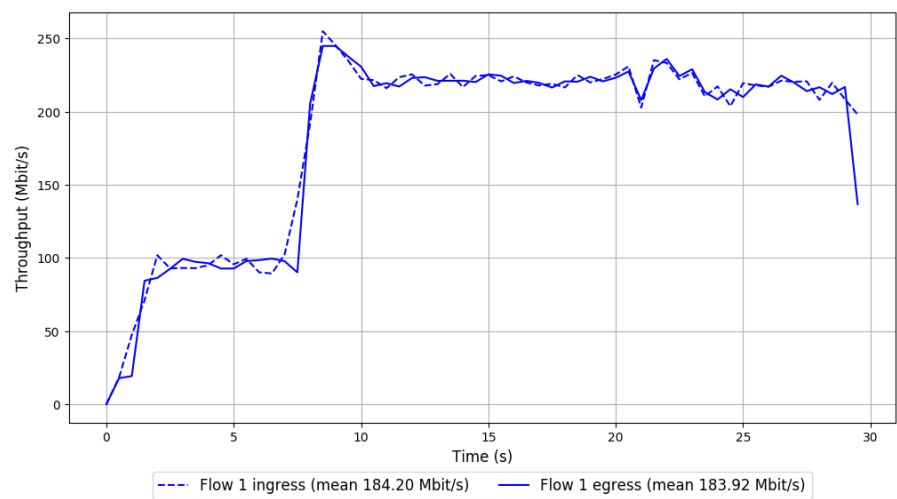
-- Flow 1:

Average throughput: 183.92 Mbit/s

95th percentile per-packet one-way delay: 136.925 ms

Loss rate: 1.05%

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

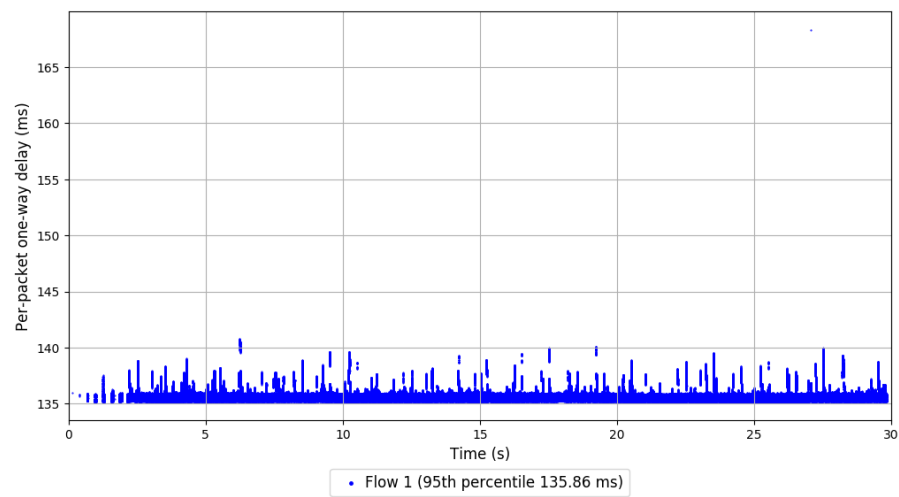
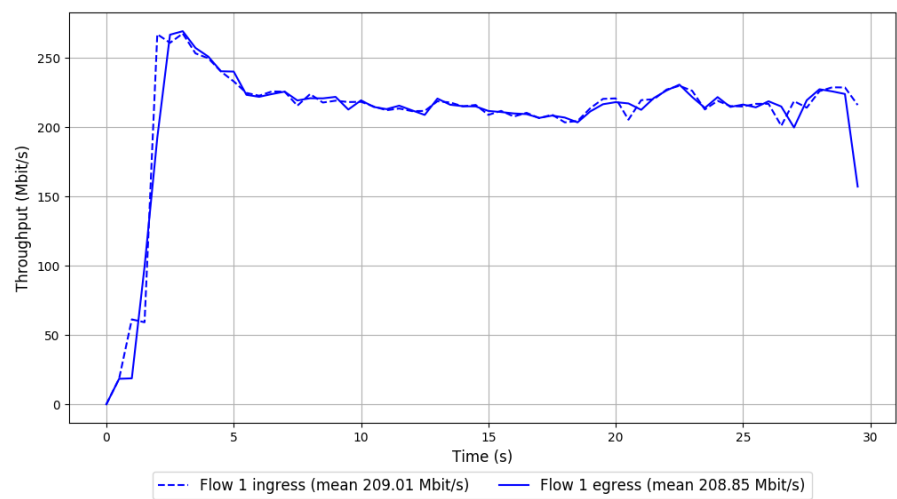


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-03-27 14:44:25
End at: 2018-03-27 14:44:55

# Below is generated by plot.py at 2018-03-27 17:58:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 208.85 Mbit/s
95th percentile per-packet one-way delay: 135.856 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 208.85 Mbit/s
95th percentile per-packet one-way delay: 135.856 ms
Loss rate: 0.98%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-03-27 12:11:07

End at: 2018-03-27 12:11:37

Below is generated by plot.py at 2018-03-27 17:58:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.61 Mbit/s

95th percentile per-packet one-way delay: 143.587 ms

Loss rate: 0.94%

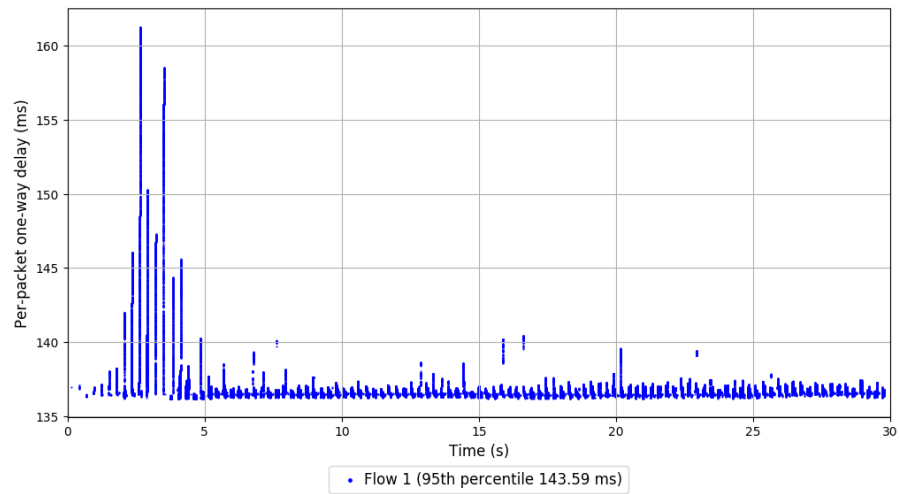
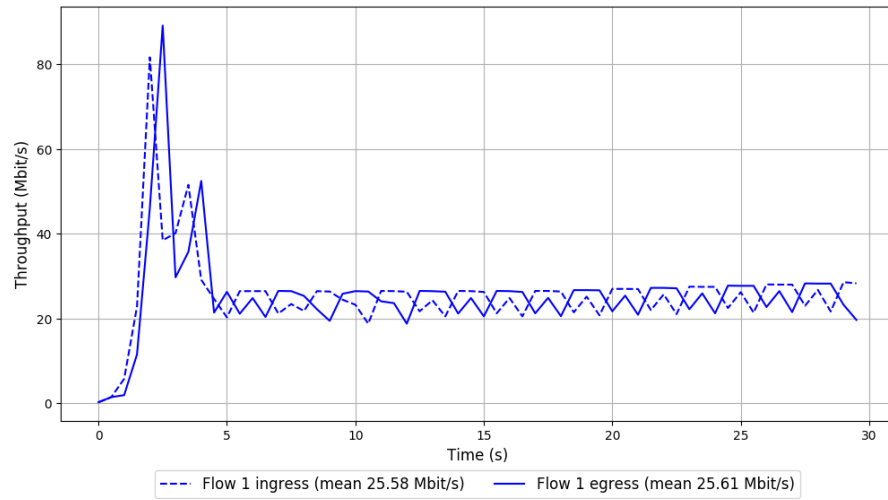
-- Flow 1:

Average throughput: 25.61 Mbit/s

95th percentile per-packet one-way delay: 143.587 ms

Loss rate: 0.94%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-03-27 12:26:40

End at: 2018-03-27 12:27:11

Below is generated by plot.py at 2018-03-27 17:58:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.96 Mbit/s

95th percentile per-packet one-way delay: 145.763 ms

Loss rate: 1.00%

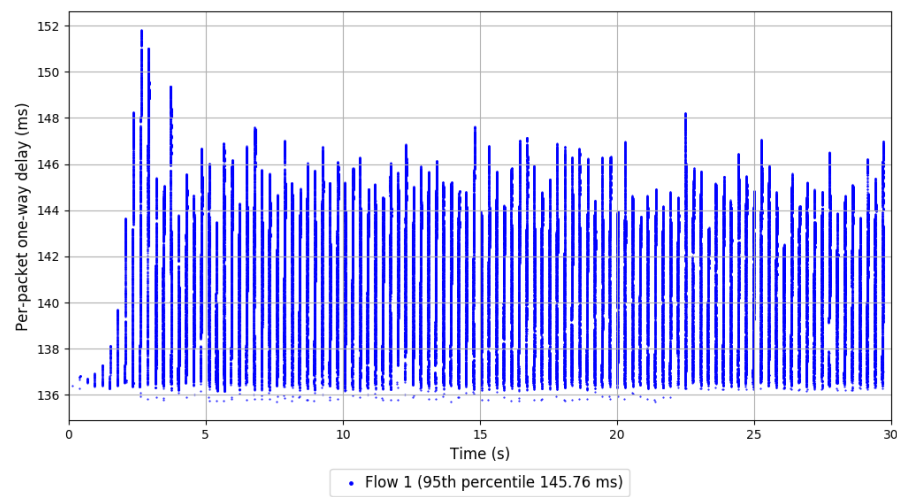
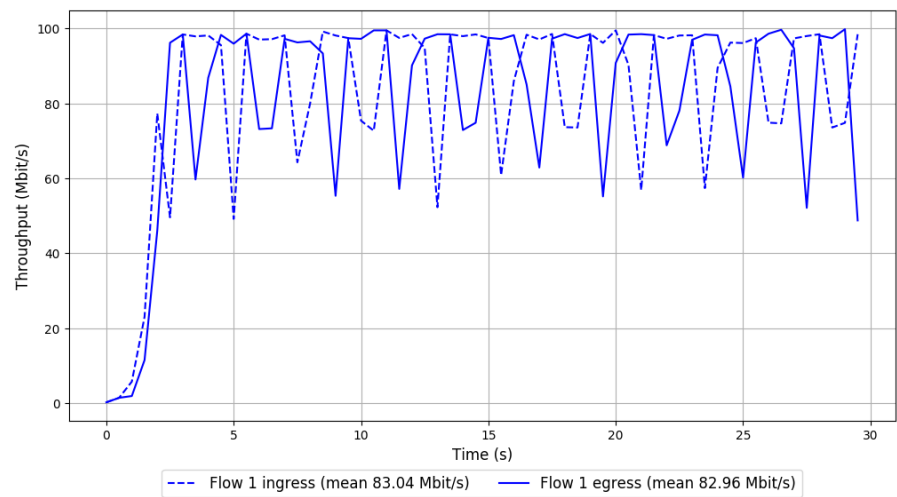
-- Flow 1:

Average throughput: 82.96 Mbit/s

95th percentile per-packet one-way delay: 145.763 ms

Loss rate: 1.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-03-27 12:42:16

End at: 2018-03-27 12:42:46

Below is generated by plot.py at 2018-03-27 17:58:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.62 Mbit/s

95th percentile per-packet one-way delay: 144.692 ms

Loss rate: 1.06%

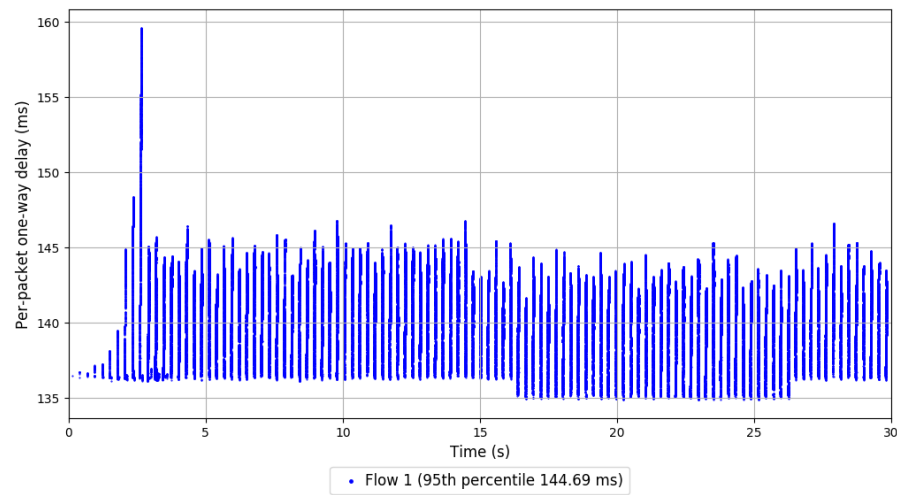
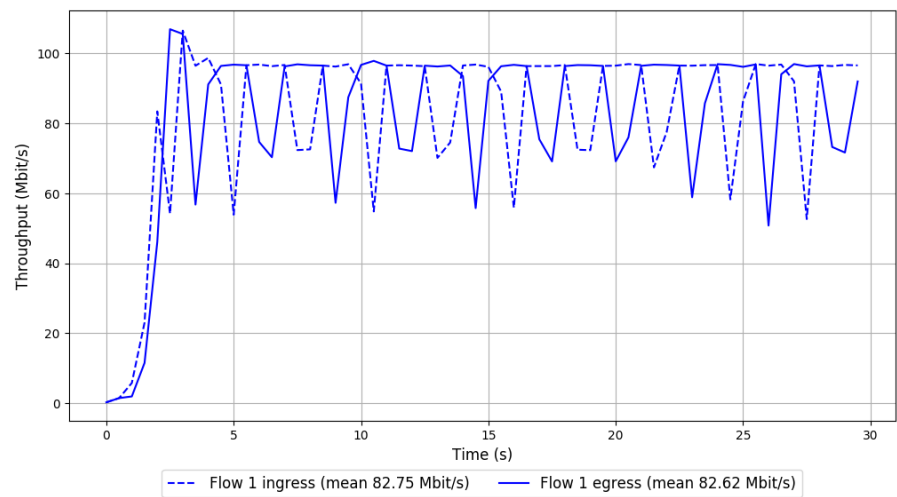
-- Flow 1:

Average throughput: 82.62 Mbit/s

95th percentile per-packet one-way delay: 144.692 ms

Loss rate: 1.06%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-03-27 12:58:01

End at: 2018-03-27 12:58:32

Below is generated by plot.py at 2018-03-27 17:58:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.09 Mbit/s

95th percentile per-packet one-way delay: 137.448 ms

Loss rate: 1.03%

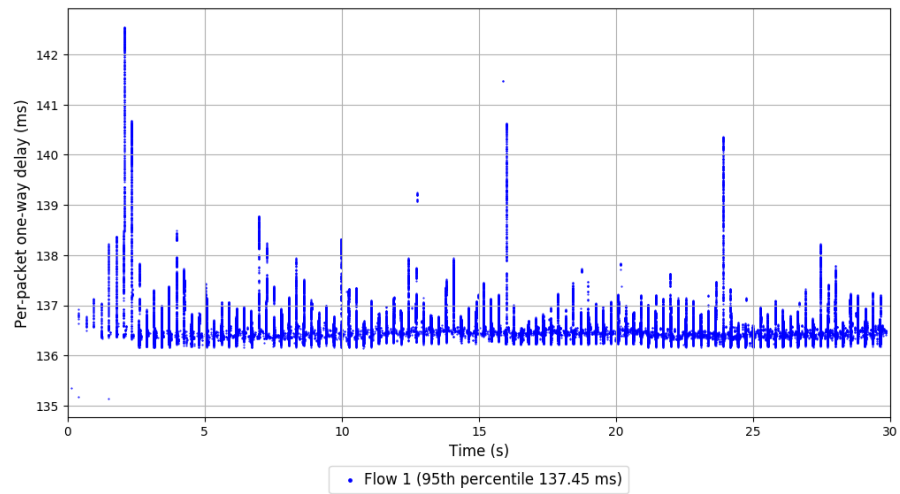
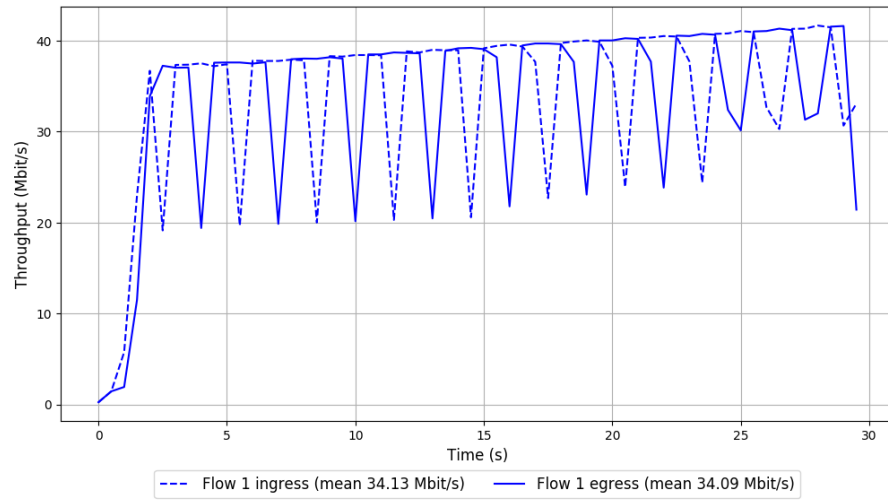
-- Flow 1:

Average throughput: 34.09 Mbit/s

95th percentile per-packet one-way delay: 137.448 ms

Loss rate: 1.03%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-03-27 13:13:35

End at: 2018-03-27 13:14:05

Below is generated by plot.py at 2018-03-27 17:58:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.56 Mbit/s

95th percentile per-packet one-way delay: 145.731 ms

Loss rate: 0.97%

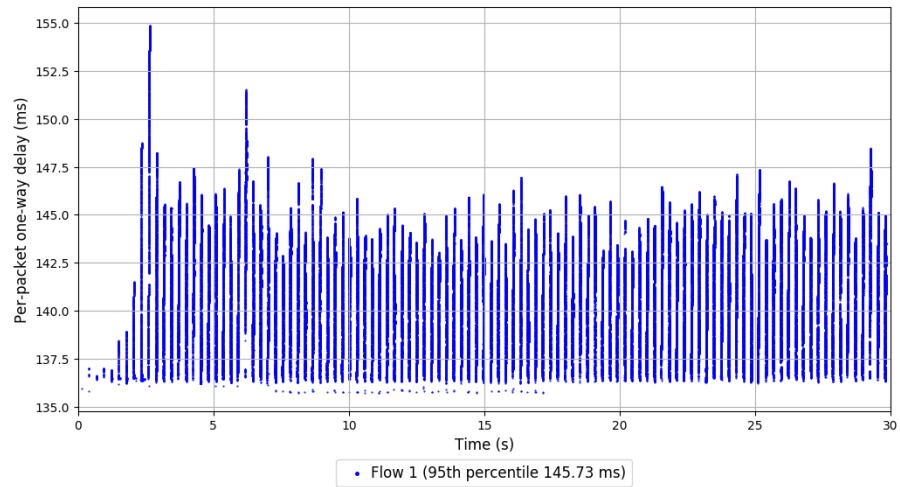
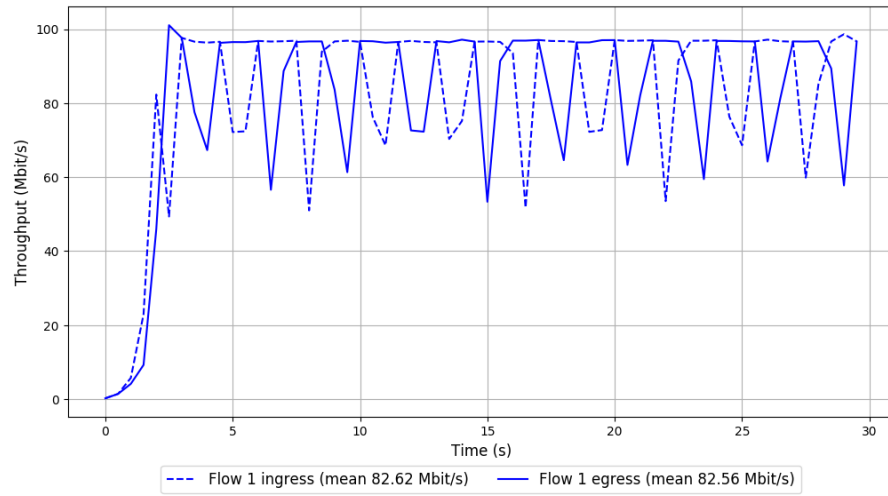
-- Flow 1:

Average throughput: 82.56 Mbit/s

95th percentile per-packet one-way delay: 145.731 ms

Loss rate: 0.97%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-03-27 13:29:39

End at: 2018-03-27 13:30:09

Below is generated by plot.py at 2018-03-27 17:58:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.44 Mbit/s

95th percentile per-packet one-way delay: 146.513 ms

Loss rate: 0.42%

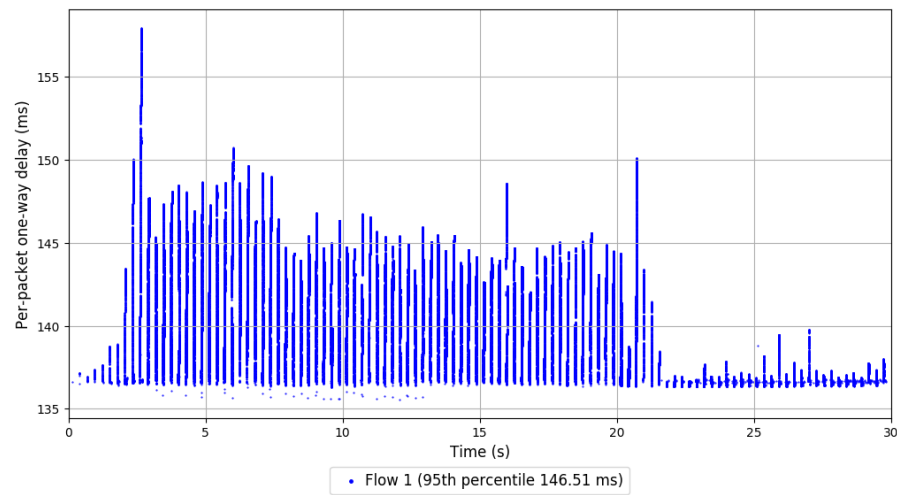
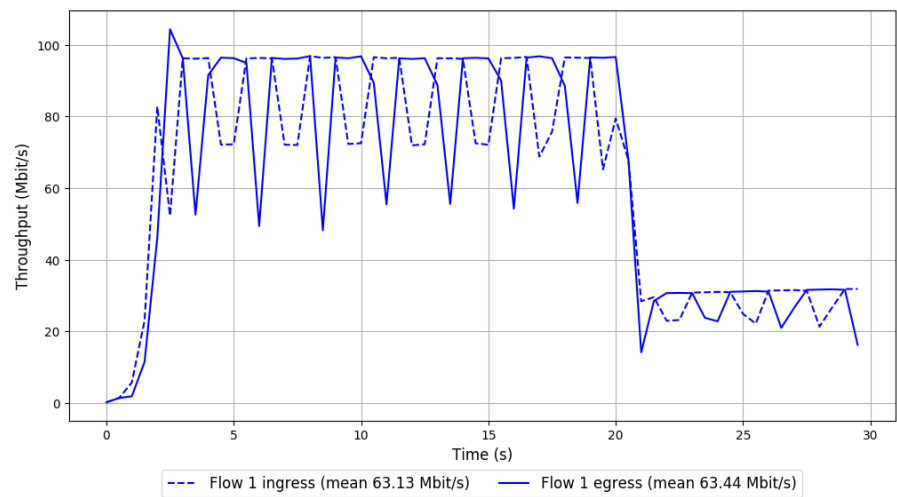
-- Flow 1:

Average throughput: 63.44 Mbit/s

95th percentile per-packet one-way delay: 146.513 ms

Loss rate: 0.42%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-03-27 13:45:34

End at: 2018-03-27 13:46:04

Below is generated by plot.py at 2018-03-27 17:59:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.10 Mbit/s

95th percentile per-packet one-way delay: 142.972 ms

Loss rate: 0.53%

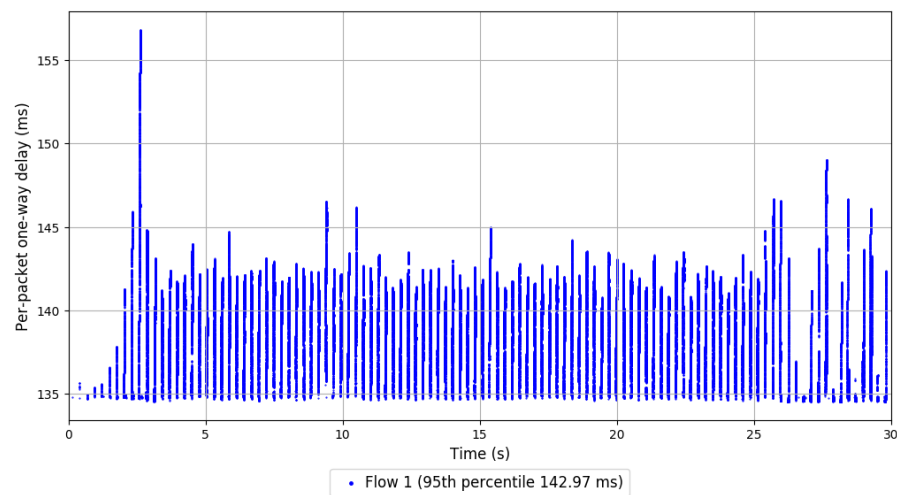
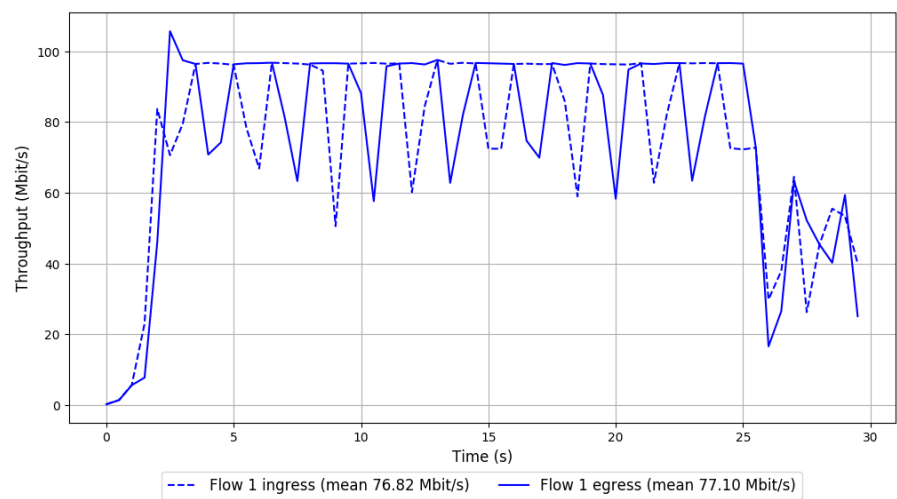
-- Flow 1:

Average throughput: 77.10 Mbit/s

95th percentile per-packet one-way delay: 142.972 ms

Loss rate: 0.53%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-03-27 14:01:11

End at: 2018-03-27 14:01:41

Below is generated by plot.py at 2018-03-27 17:59:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.70 Mbit/s

95th percentile per-packet one-way delay: 140.620 ms

Loss rate: 0.99%

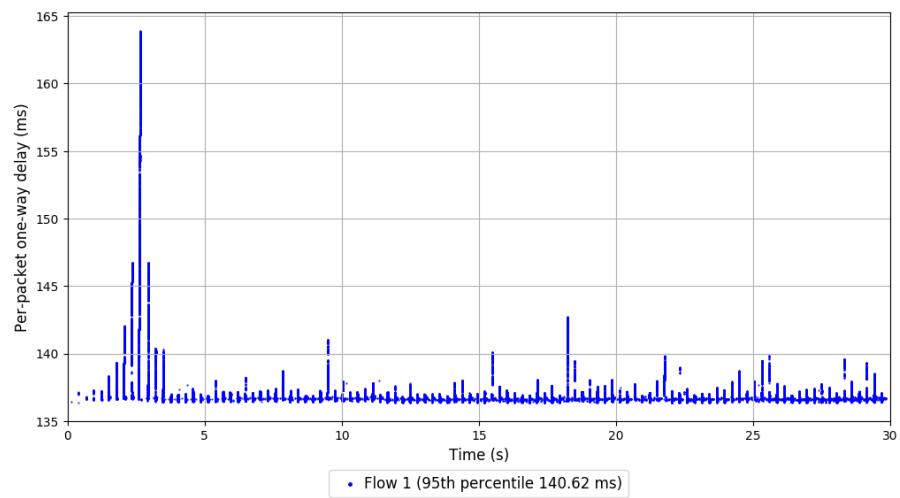
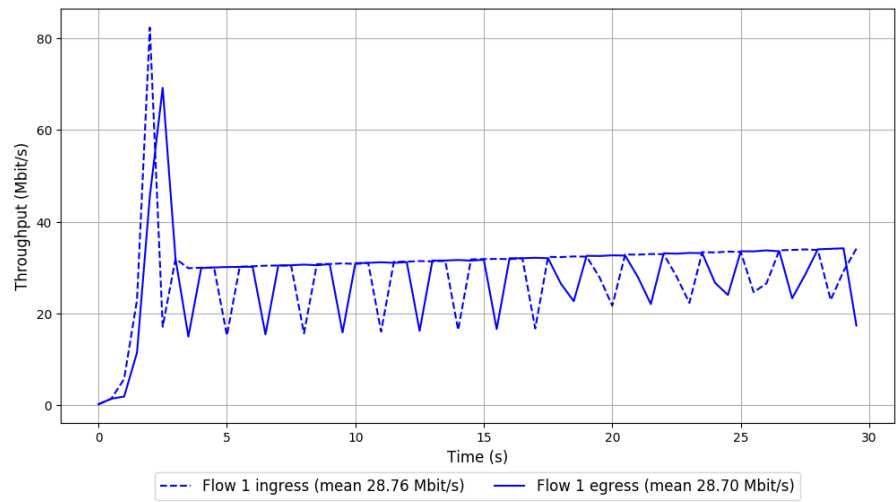
-- Flow 1:

Average throughput: 28.70 Mbit/s

95th percentile per-packet one-way delay: 140.620 ms

Loss rate: 0.99%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-03-27 14:17:00

End at: 2018-03-27 14:17:30

Below is generated by plot.py at 2018-03-27 17:59:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.49 Mbit/s

95th percentile per-packet one-way delay: 144.881 ms

Loss rate: 0.98%

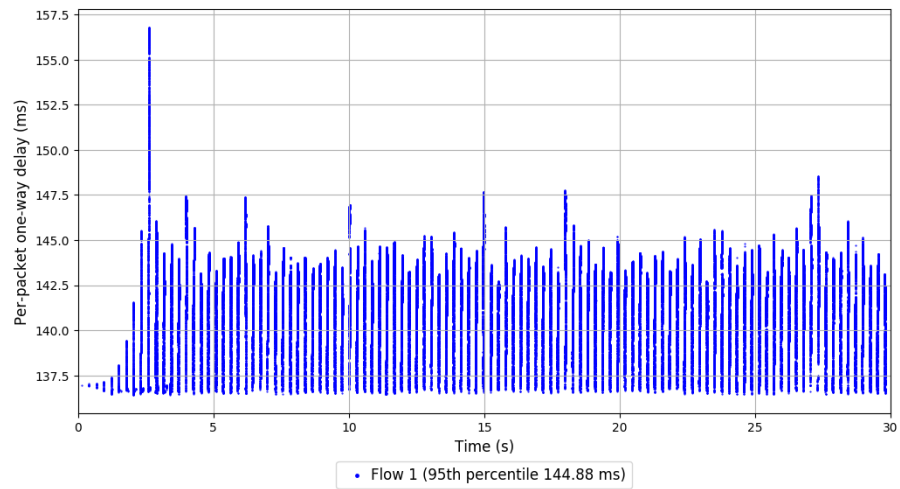
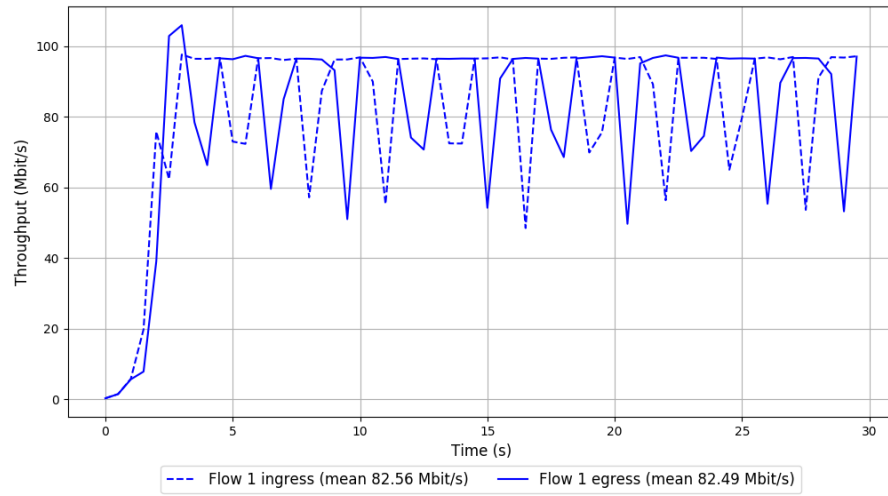
-- Flow 1:

Average throughput: 82.49 Mbit/s

95th percentile per-packet one-way delay: 144.881 ms

Loss rate: 0.98%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-03-27 14:32:59

End at: 2018-03-27 14:33:30

Below is generated by plot.py at 2018-03-27 17:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.93 Mbit/s

95th percentile per-packet one-way delay: 144.011 ms

Loss rate: 0.99%

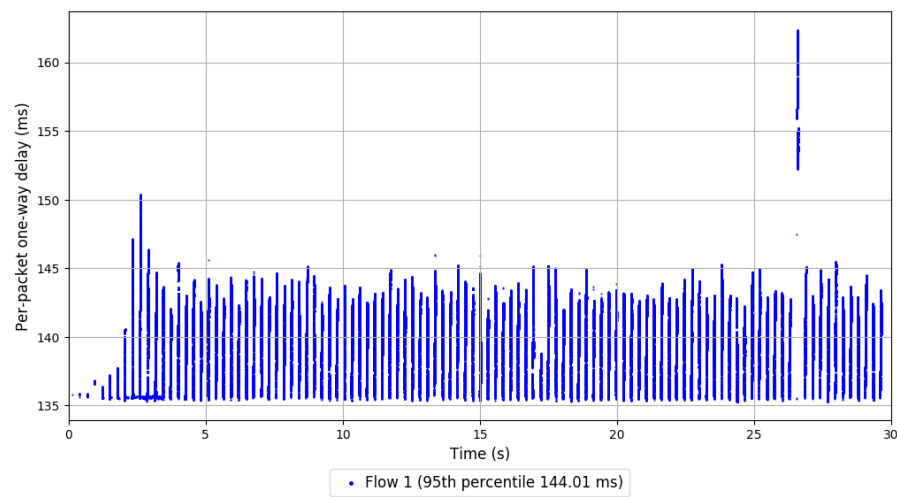
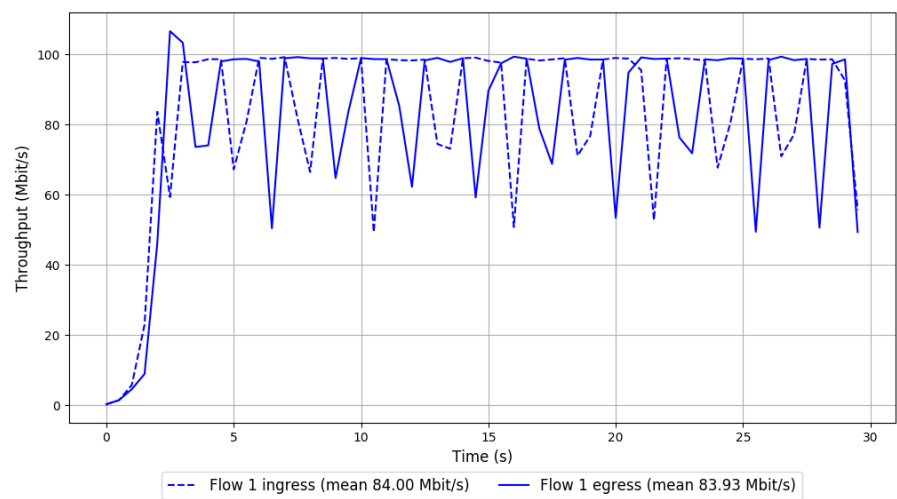
-- Flow 1:

Average throughput: 83.93 Mbit/s

95th percentile per-packet one-way delay: 144.011 ms

Loss rate: 0.99%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-03-27 12:09:07

End at: 2018-03-27 12:09:37

Below is generated by plot.py at 2018-03-27 18:02:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.41 Mbit/s

95th percentile per-packet one-way delay: 207.624 ms

Loss rate: 0.47%

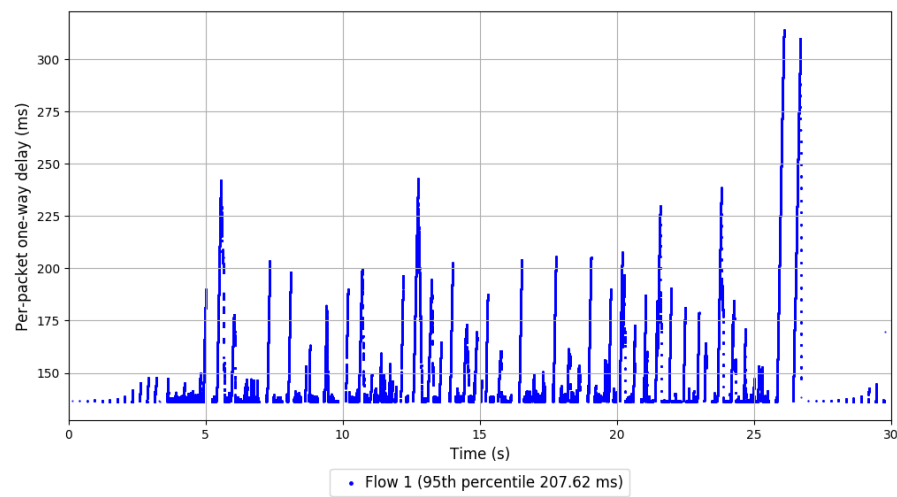
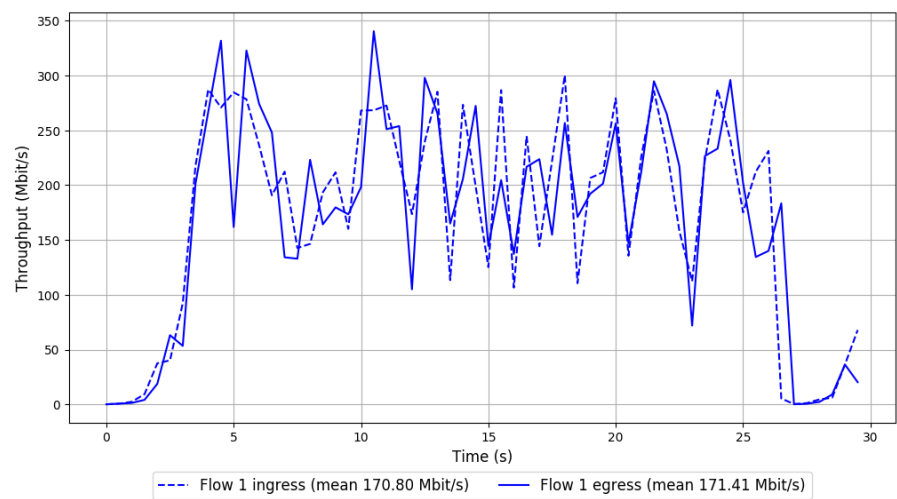
-- Flow 1:

Average throughput: 171.41 Mbit/s

95th percentile per-packet one-way delay: 207.624 ms

Loss rate: 0.47%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-03-27 12:24:47

End at: 2018-03-27 12:25:17

Below is generated by plot.py at 2018-03-27 18:02:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.94 Mbit/s

95th percentile per-packet one-way delay: 179.131 ms

Loss rate: 1.48%

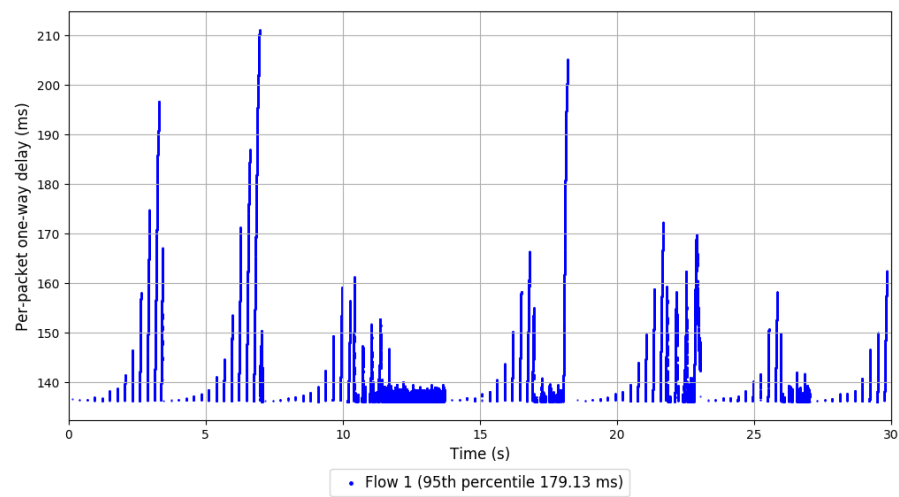
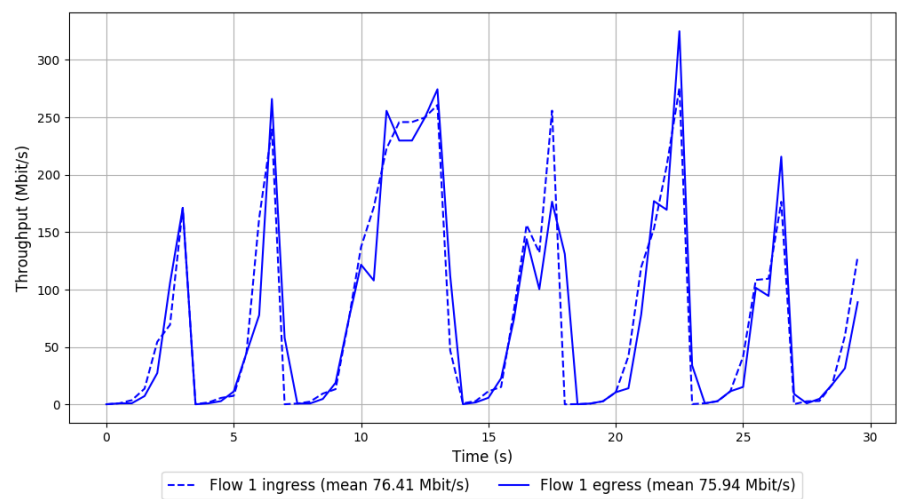
-- Flow 1:

Average throughput: 75.94 Mbit/s

95th percentile per-packet one-way delay: 179.131 ms

Loss rate: 1.48%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-03-27 12:40:21

End at: 2018-03-27 12:40:51

Below is generated by plot.py at 2018-03-27 18:02:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.80 Mbit/s

95th percentile per-packet one-way delay: 171.142 ms

Loss rate: 0.00%

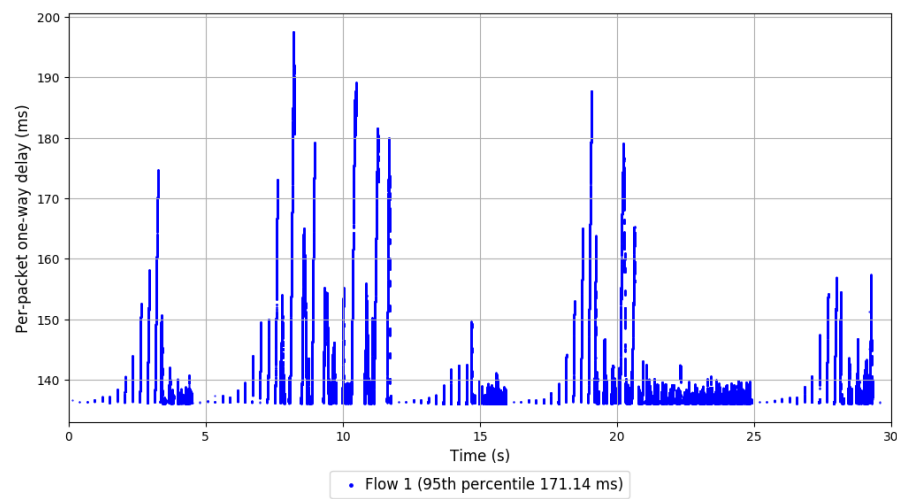
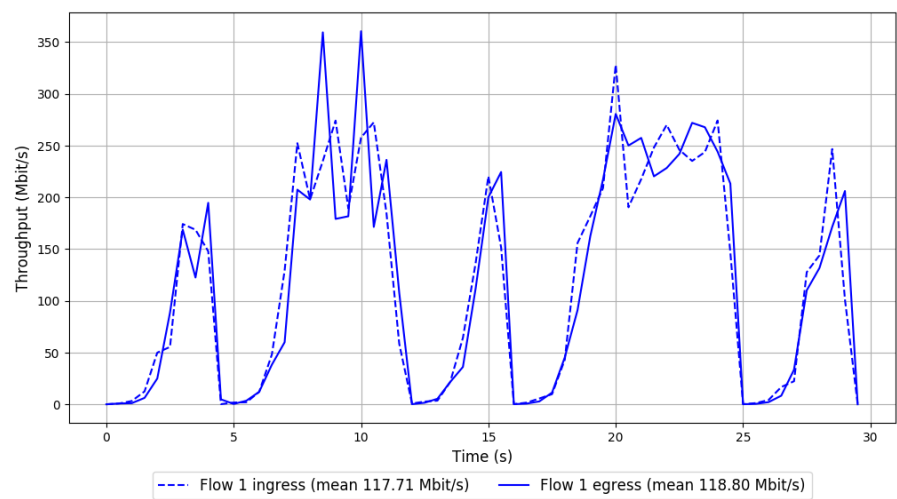
-- Flow 1:

Average throughput: 118.80 Mbit/s

95th percentile per-packet one-way delay: 171.142 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-03-27 12:56:03

End at: 2018-03-27 12:56:33

Below is generated by plot.py at 2018-03-27 18:02:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.24 Mbit/s

95th percentile per-packet one-way delay: 230.147 ms

Loss rate: 1.74%

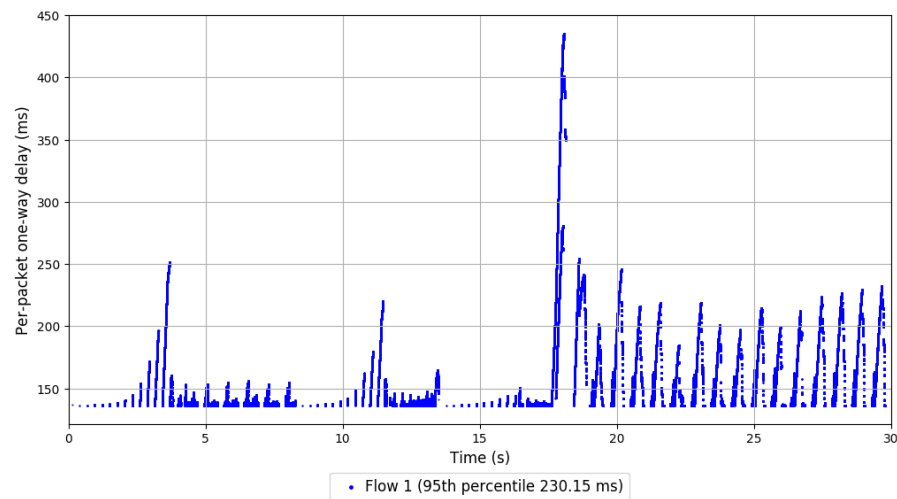
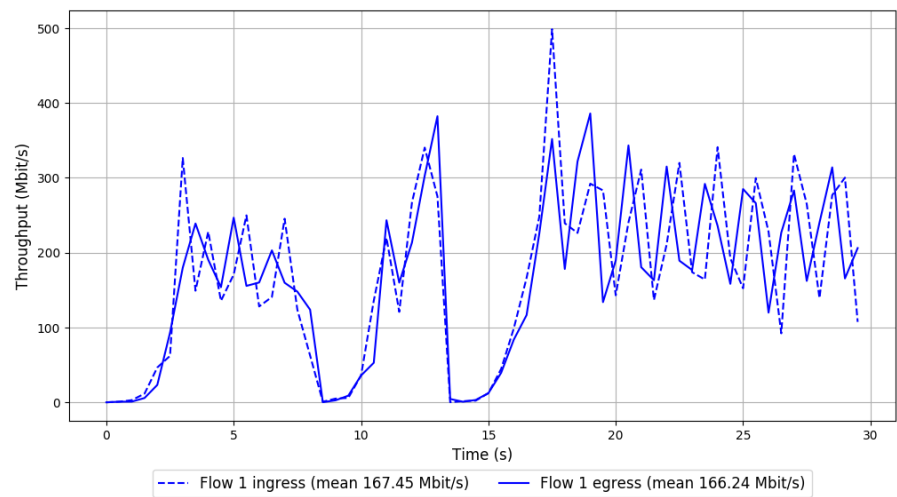
-- Flow 1:

Average throughput: 166.24 Mbit/s

95th percentile per-packet one-way delay: 230.147 ms

Loss rate: 1.74%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-03-27 13:11:43

End at: 2018-03-27 13:12:13

Below is generated by plot.py at 2018-03-27 18:02:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.40 Mbit/s

95th percentile per-packet one-way delay: 174.295 ms

Loss rate: 0.10%

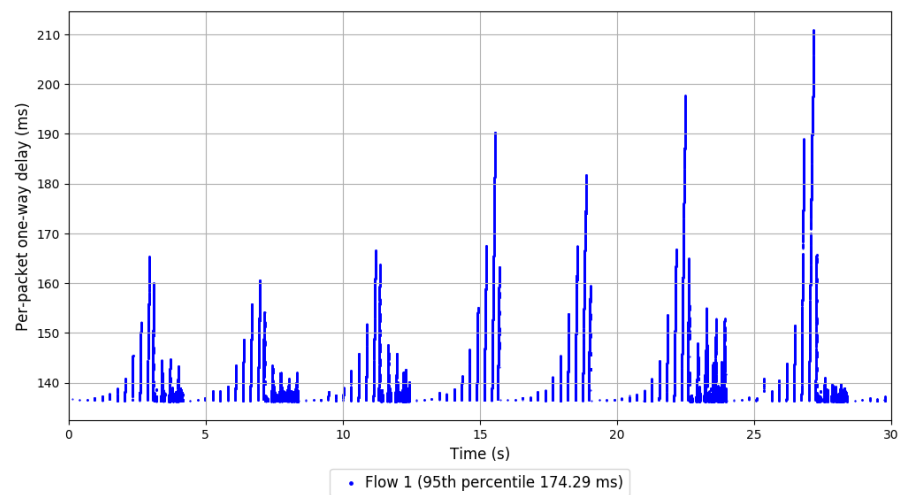
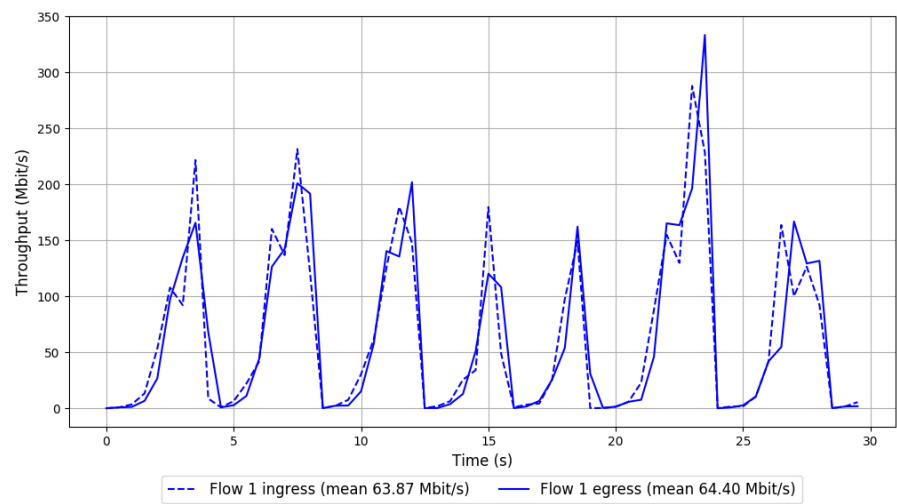
-- Flow 1:

Average throughput: 64.40 Mbit/s

95th percentile per-packet one-way delay: 174.295 ms

Loss rate: 0.10%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-03-27 13:27:36

End at: 2018-03-27 13:28:06

Below is generated by plot.py at 2018-03-27 18:04:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.40 Mbit/s

95th percentile per-packet one-way delay: 316.162 ms

Loss rate: 5.84%

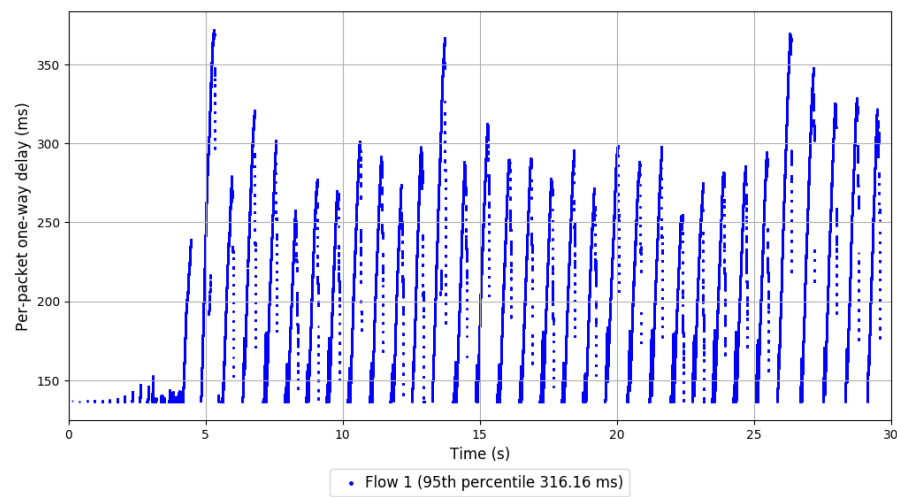
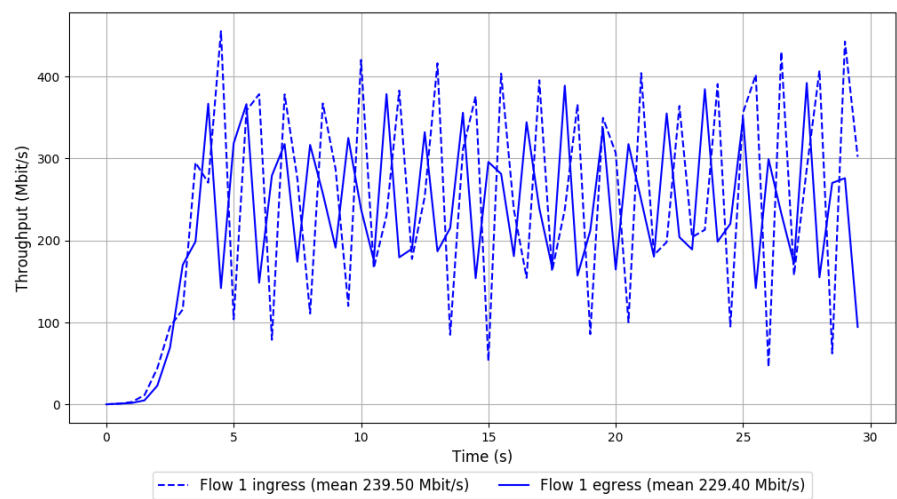
-- Flow 1:

Average throughput: 229.40 Mbit/s

95th percentile per-packet one-way delay: 316.162 ms

Loss rate: 5.84%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-03-27 13:43:36

End at: 2018-03-27 13:44:06

Below is generated by plot.py at 2018-03-27 18:04:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.32 Mbit/s

95th percentile per-packet one-way delay: 232.017 ms

Loss rate: 1.83%

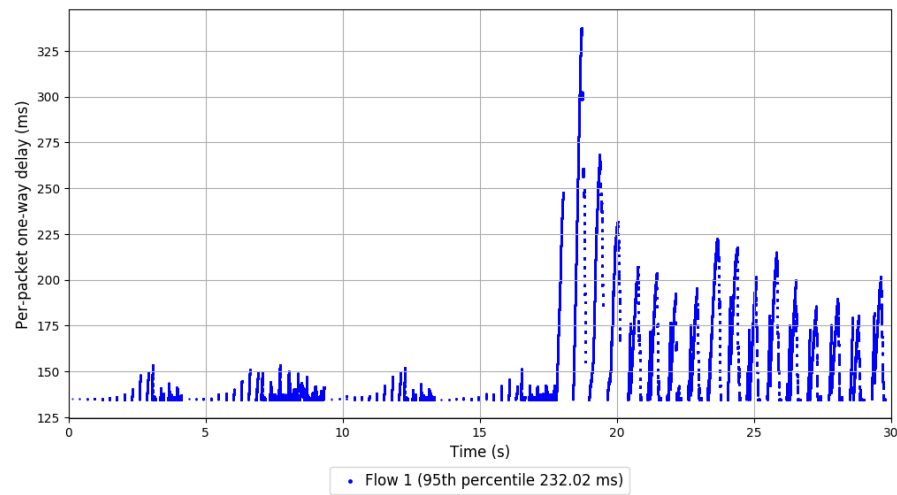
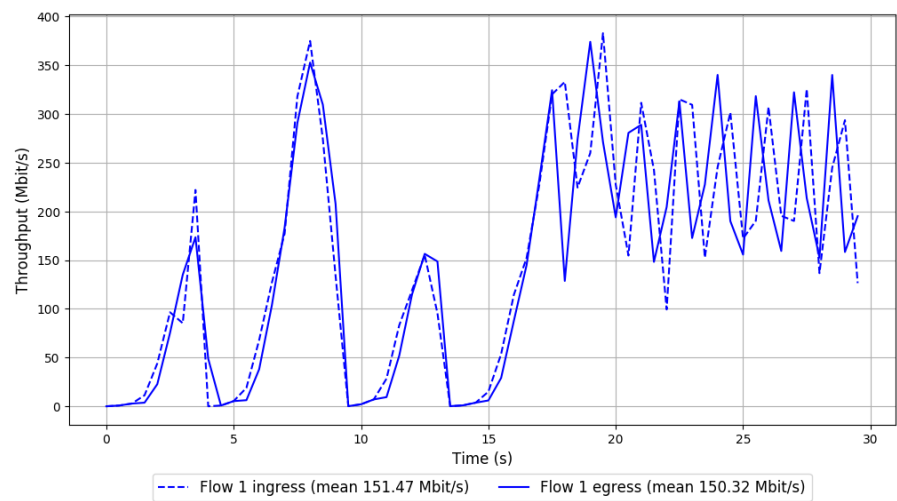
-- Flow 1:

Average throughput: 150.32 Mbit/s

95th percentile per-packet one-way delay: 232.017 ms

Loss rate: 1.83%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-03-27 13:59:14

End at: 2018-03-27 13:59:44

Below is generated by plot.py at 2018-03-27 18:04:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.73 Mbit/s

95th percentile per-packet one-way delay: 263.071 ms

Loss rate: 1.20%

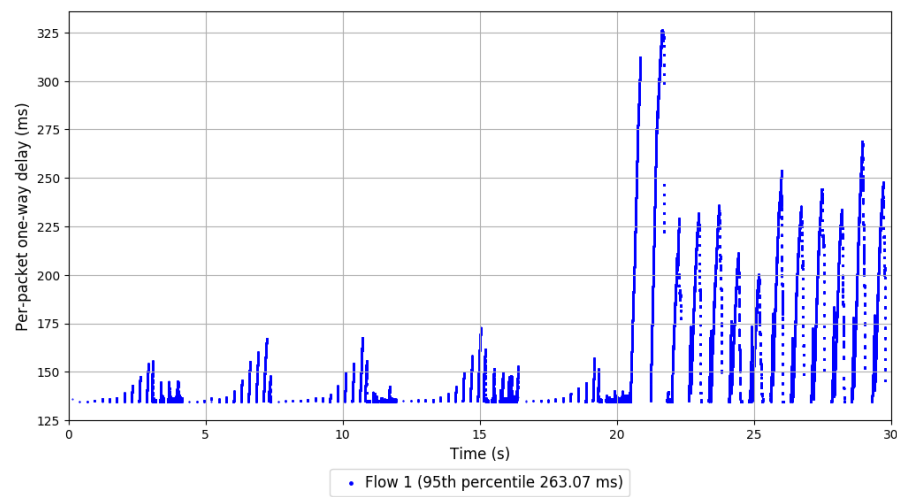
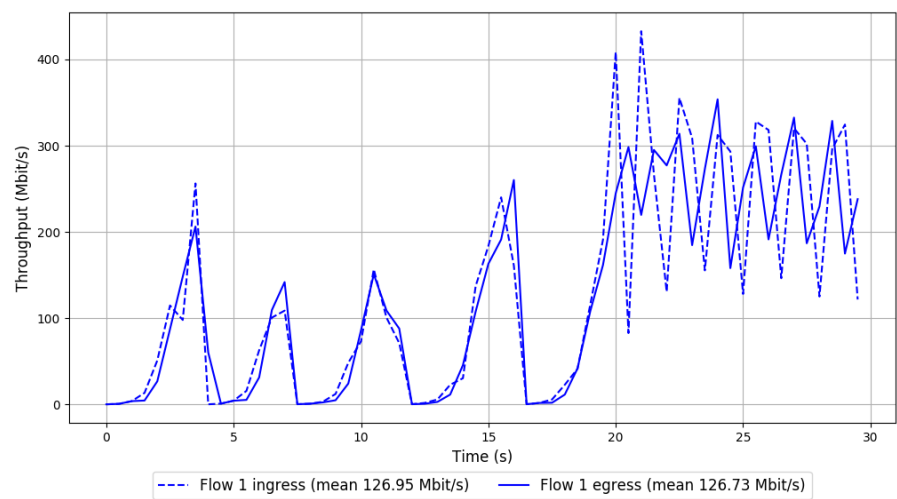
-- Flow 1:

Average throughput: 126.73 Mbit/s

95th percentile per-packet one-way delay: 263.071 ms

Loss rate: 1.20%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-03-27 14:15:08

End at: 2018-03-27 14:15:38

Below is generated by plot.py at 2018-03-27 18:04:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.30 Mbit/s

95th percentile per-packet one-way delay: 279.183 ms

Loss rate: 1.58%

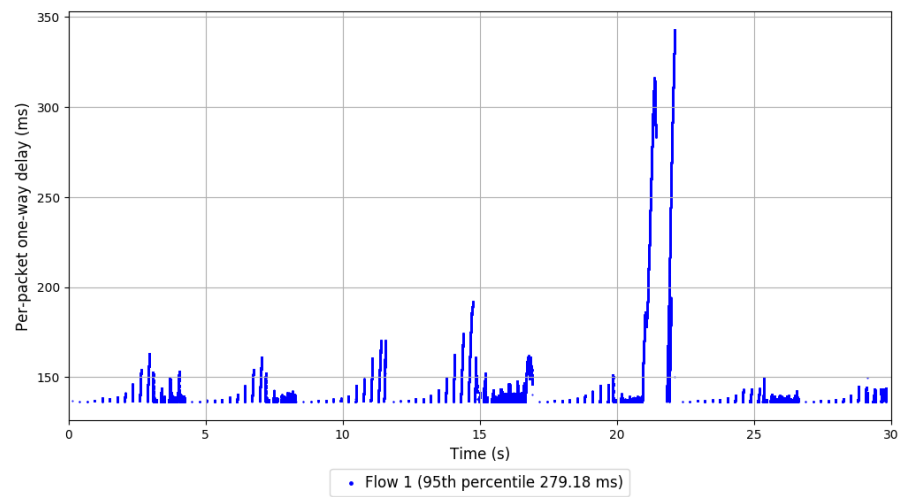
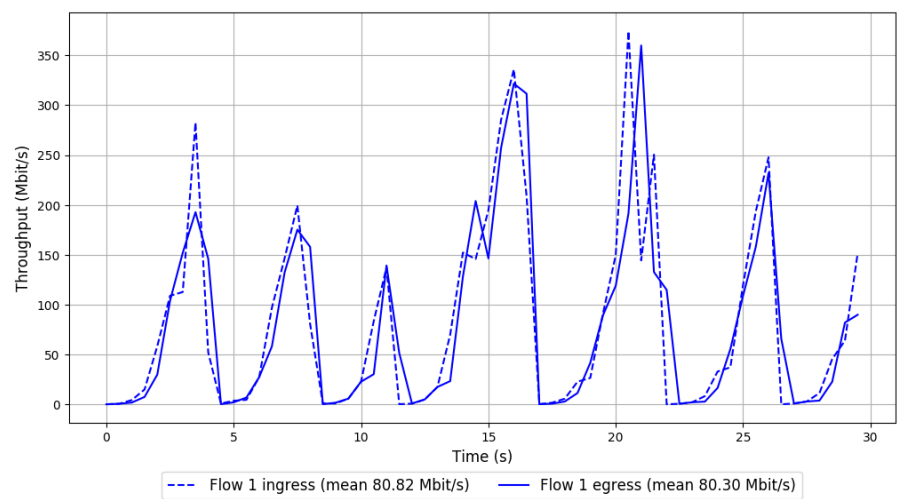
-- Flow 1:

Average throughput: 80.30 Mbit/s

95th percentile per-packet one-way delay: 279.183 ms

Loss rate: 1.58%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-03-27 14:31:03

End at: 2018-03-27 14:31:33

Below is generated by plot.py at 2018-03-27 18:04:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 139.75 Mbit/s

95th percentile per-packet one-way delay: 232.998 ms

Loss rate: 1.59%

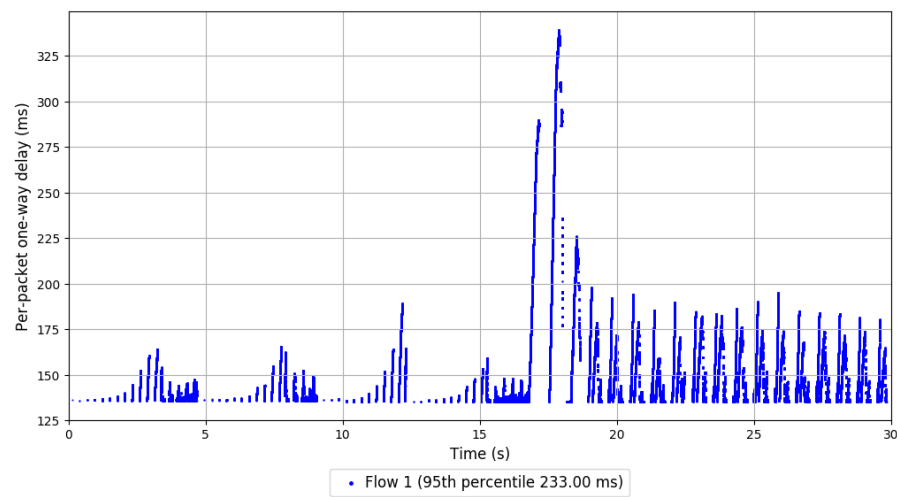
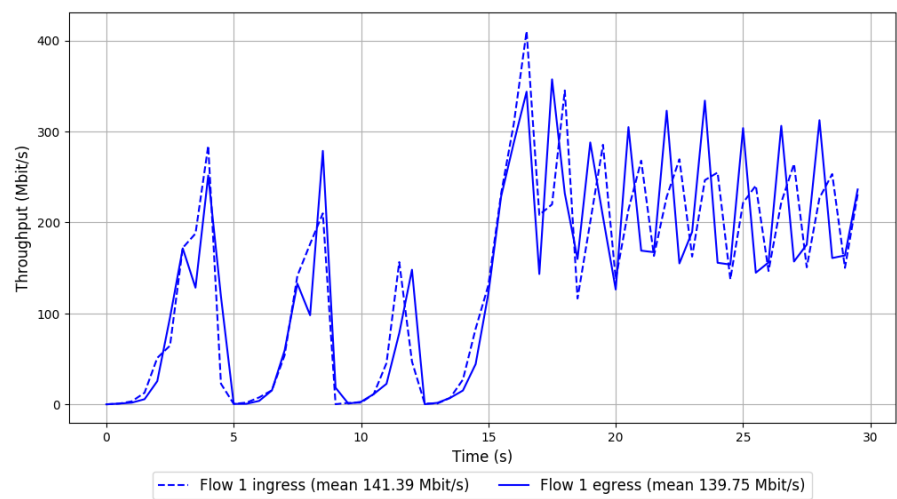
-- Flow 1:

Average throughput: 139.75 Mbit/s

95th percentile per-packet one-way delay: 232.998 ms

Loss rate: 1.59%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-03-27 12:12:55

End at: 2018-03-27 12:13:25

Below is generated by plot.py at 2018-03-27 18:04:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.54 Mbit/s

95th percentile per-packet one-way delay: 136.638 ms

Loss rate: 0.92%

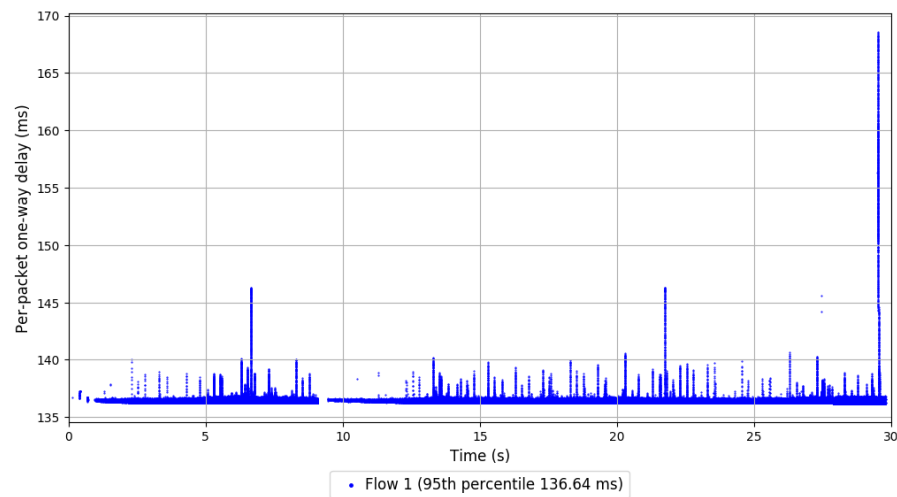
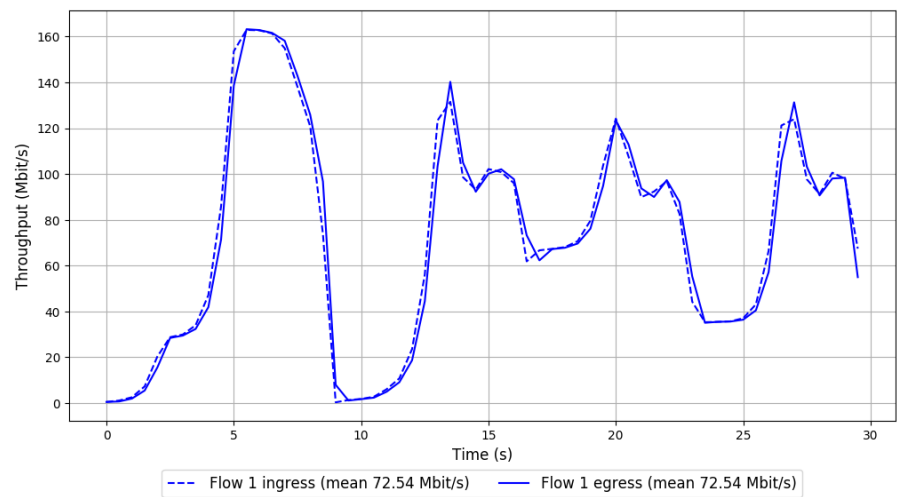
-- Flow 1:

Average throughput: 72.54 Mbit/s

95th percentile per-packet one-way delay: 136.638 ms

Loss rate: 0.92%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-03-27 12:28:30

End at: 2018-03-27 12:29:00

Below is generated by plot.py at 2018-03-27 18:04:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.10 Mbit/s

95th percentile per-packet one-way delay: 136.272 ms

Loss rate: 0.23%

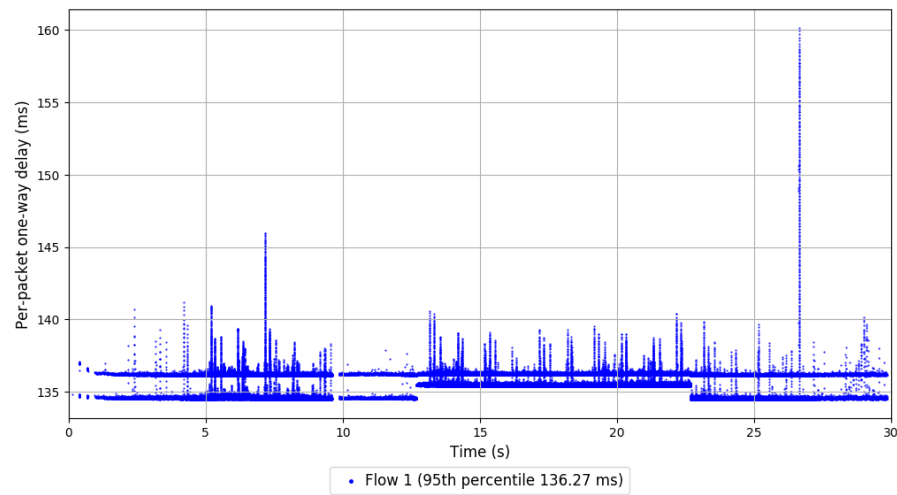
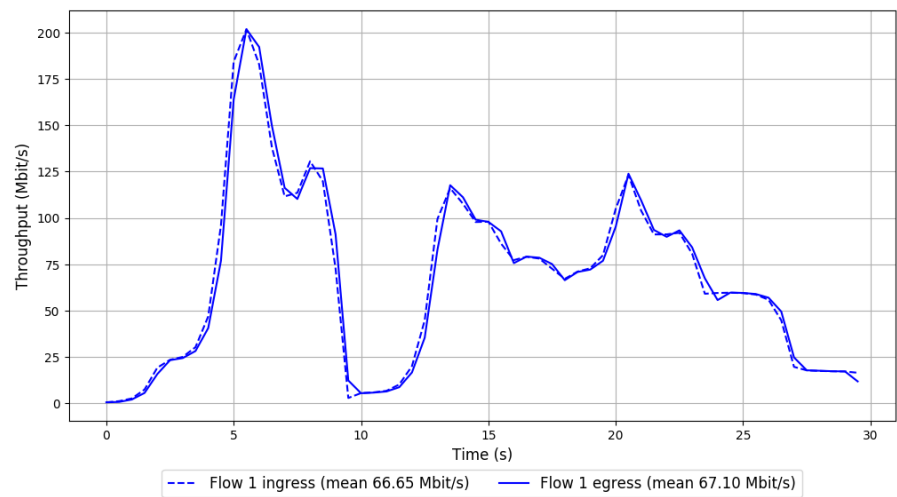
-- Flow 1:

Average throughput: 67.10 Mbit/s

95th percentile per-packet one-way delay: 136.272 ms

Loss rate: 0.23%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-03-27 12:44:12

End at: 2018-03-27 12:44:42

Below is generated by plot.py at 2018-03-27 18:05:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.00 Mbit/s

95th percentile per-packet one-way delay: 136.274 ms

Loss rate: 0.94%

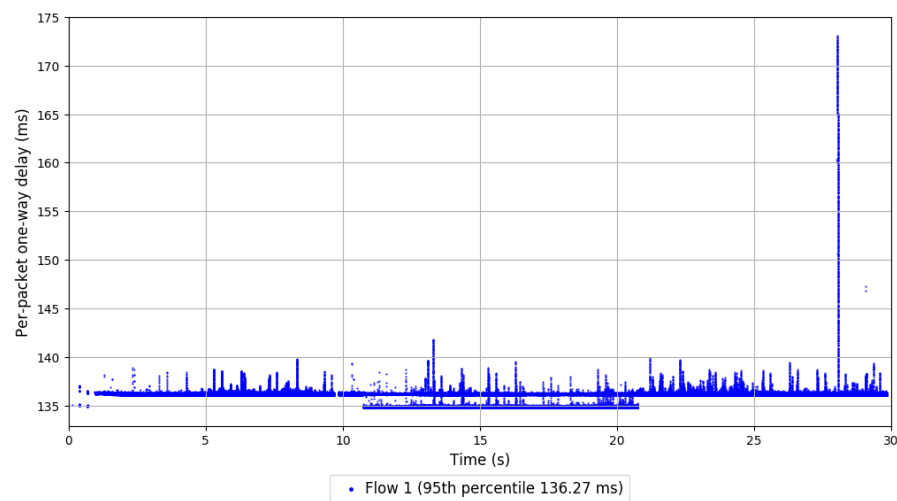
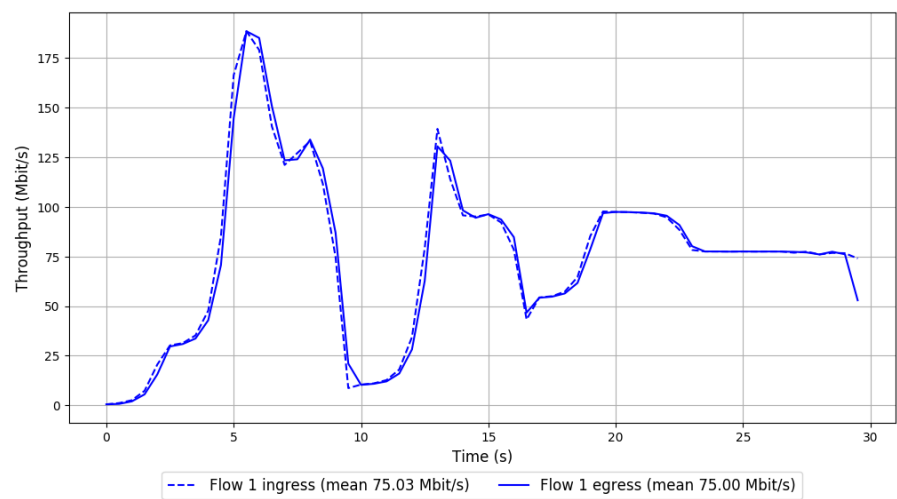
-- Flow 1:

Average throughput: 75.00 Mbit/s

95th percentile per-packet one-way delay: 136.274 ms

Loss rate: 0.94%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-03-27 12:59:48

End at: 2018-03-27 13:00:18

Below is generated by plot.py at 2018-03-27 18:05:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.88 Mbit/s

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

Loss rate: 1.05%

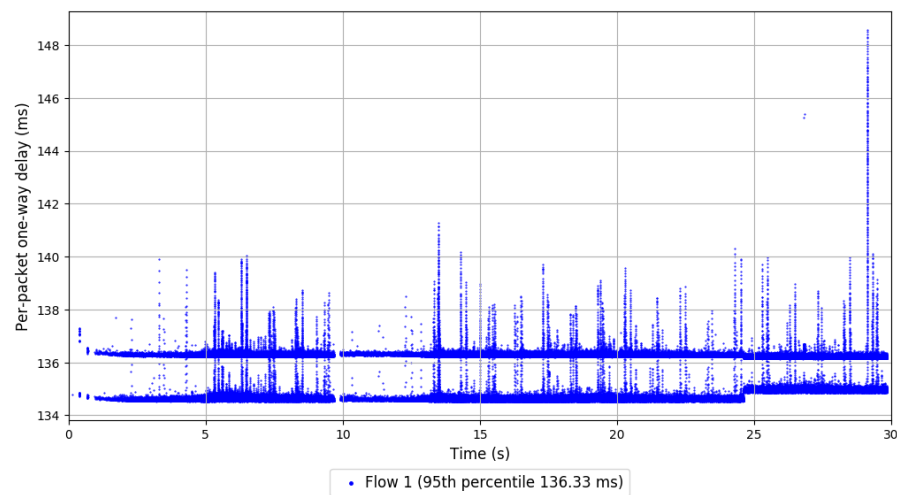
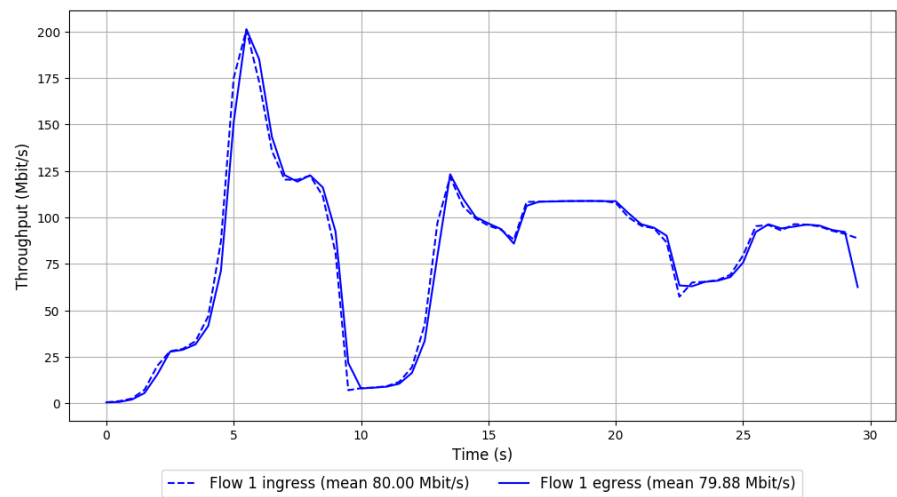
-- Flow 1:

Average throughput: 79.88 Mbit/s

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

Loss rate: 1.05%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-03-27 13:15:24

End at: 2018-03-27 13:15:54

Below is generated by plot.py at 2018-03-27 18:05:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.86 Mbit/s

95th percentile per-packet one-way delay: 136.471 ms

Loss rate: 1.03%

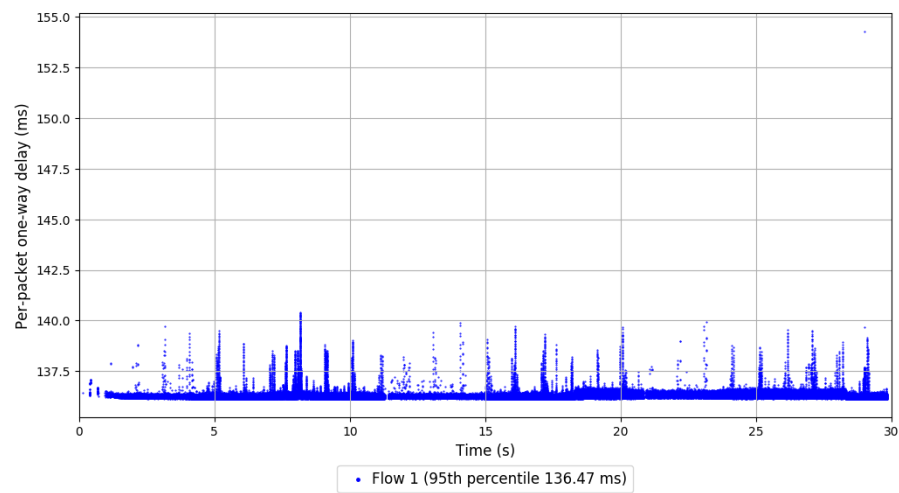
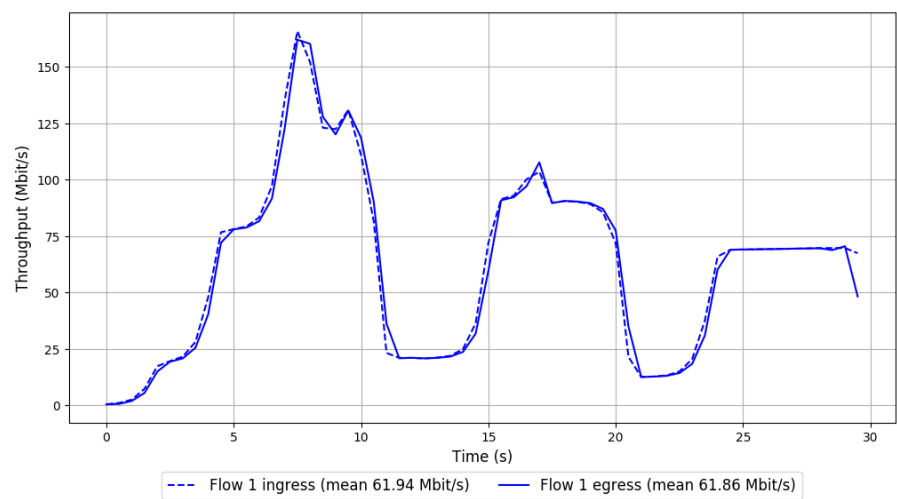
-- Flow 1:

Average throughput: 61.86 Mbit/s

95th percentile per-packet one-way delay: 136.471 ms

Loss rate: 1.03%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-03-27 13:31:21

End at: 2018-03-27 13:31:51

Below is generated by plot.py at 2018-03-27 18:05:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.08 Mbit/s

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

Loss rate: 0.56%

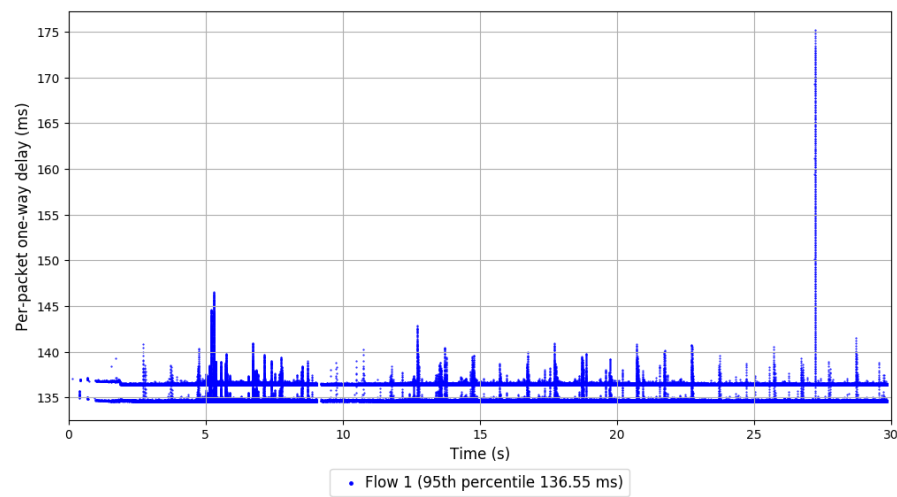
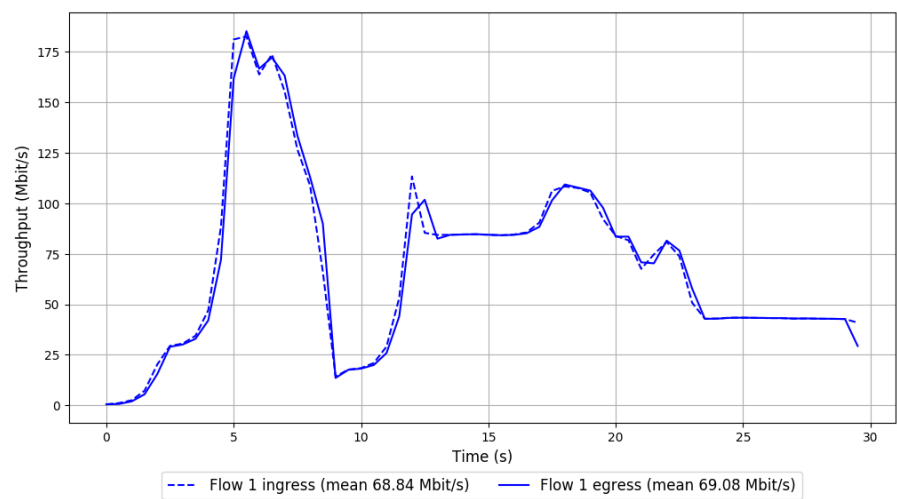
-- Flow 1:

Average throughput: 69.08 Mbit/s

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

Loss rate: 0.56%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-03-27 13:47:31

End at: 2018-03-27 13:48:01

Below is generated by plot.py at 2018-03-27 18:06:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.77 Mbit/s

95th percentile per-packet one-way delay: 134.732 ms

Loss rate: 0.92%

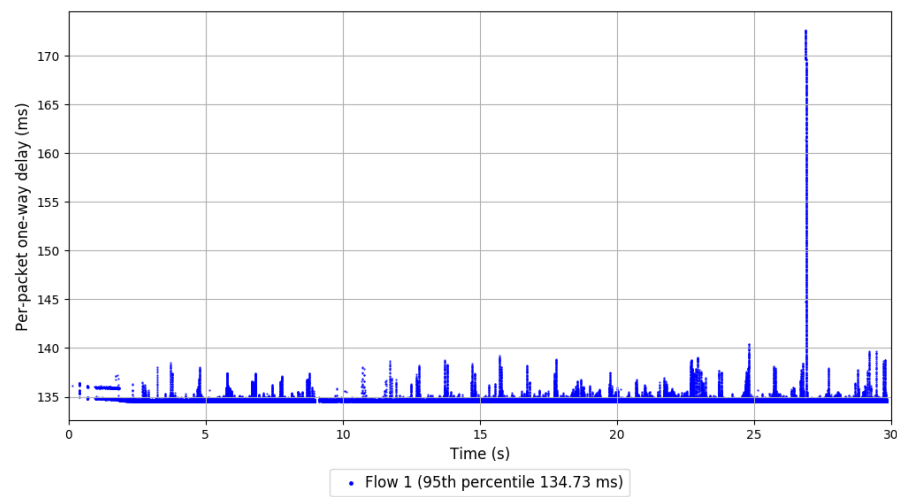
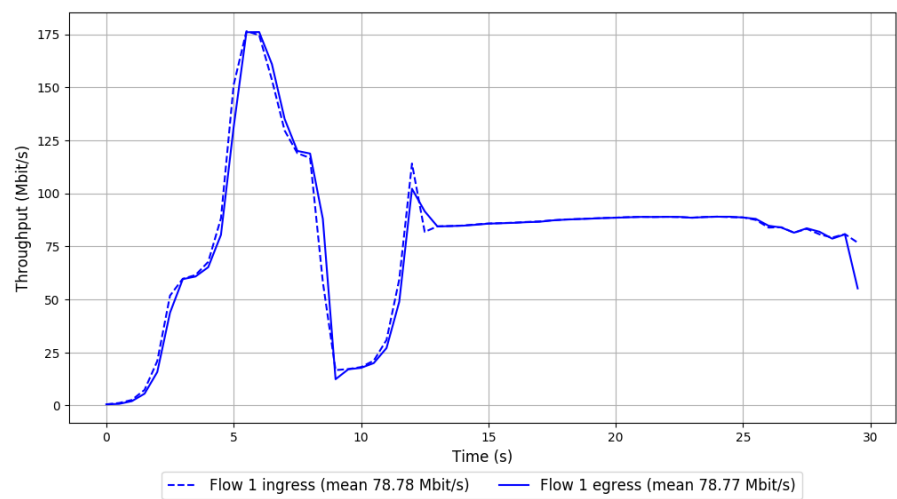
-- Flow 1:

Average throughput: 78.77 Mbit/s

95th percentile per-packet one-way delay: 134.732 ms

Loss rate: 0.92%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-03-27 14:02:50

End at: 2018-03-27 14:03:20

Below is generated by plot.py at 2018-03-27 18:07:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.54 Mbit/s

95th percentile per-packet one-way delay: 136.538 ms

Loss rate: 0.98%

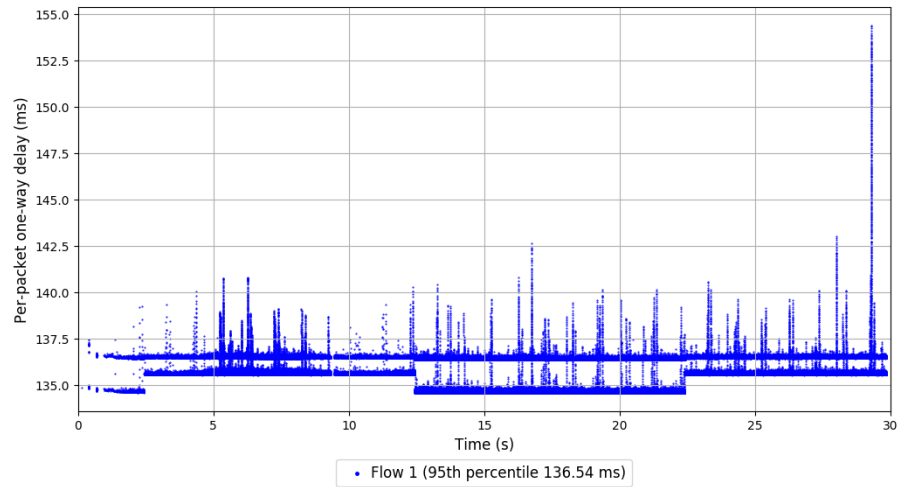
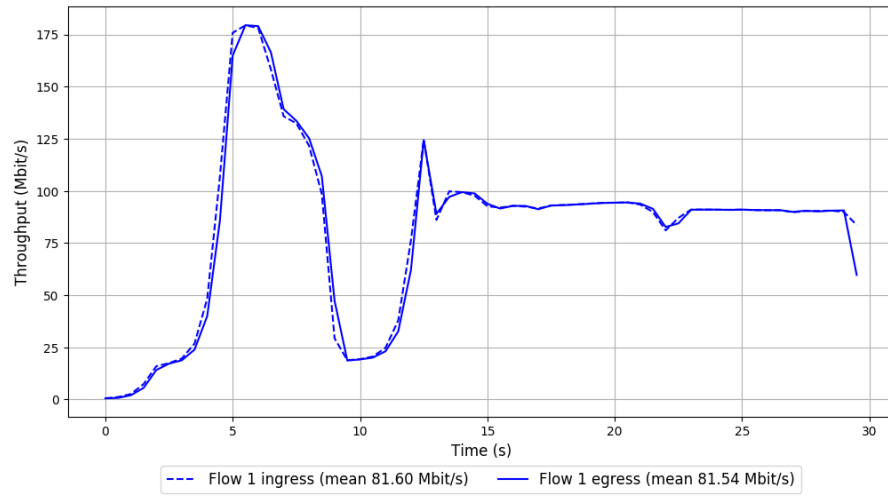
-- Flow 1:

Average throughput: 81.54 Mbit/s

95th percentile per-packet one-way delay: 136.538 ms

Loss rate: 0.98%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-03-27 14:18:49

End at: 2018-03-27 14:19:19

Below is generated by plot.py at 2018-03-27 18:07:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.08 Mbit/s

95th percentile per-packet one-way delay: 136.668 ms

Loss rate: 0.30%

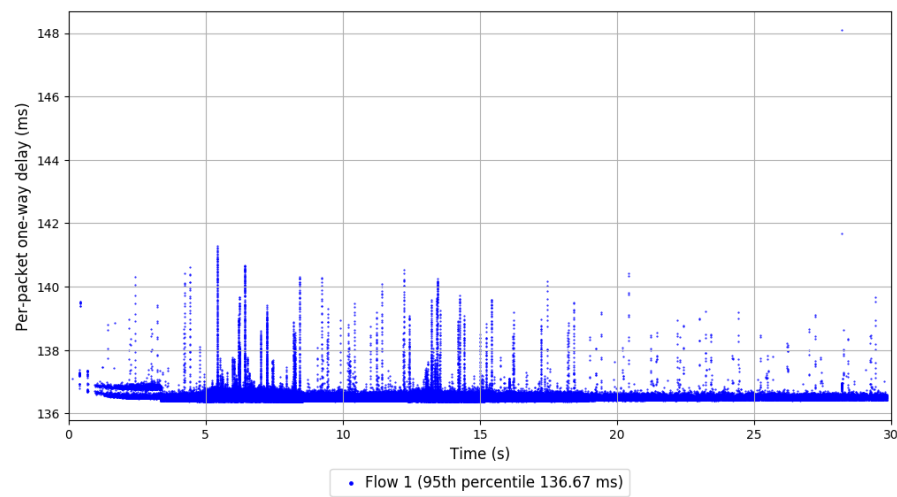
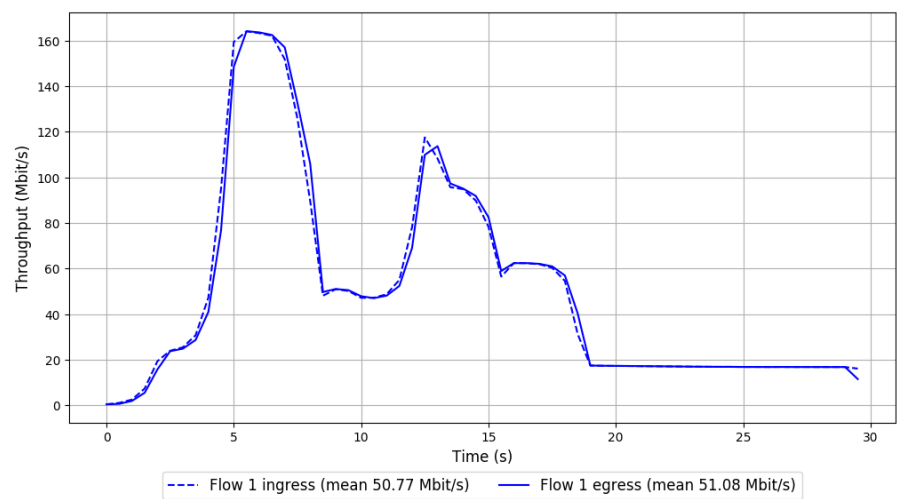
-- Flow 1:

Average throughput: 51.08 Mbit/s

95th percentile per-packet one-way delay: 136.668 ms

Loss rate: 0.30%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-03-27 14:34:42

End at: 2018-03-27 14:35:12

Below is generated by plot.py at 2018-03-27 18:07:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.61 Mbit/s

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

Loss rate: 1.15%

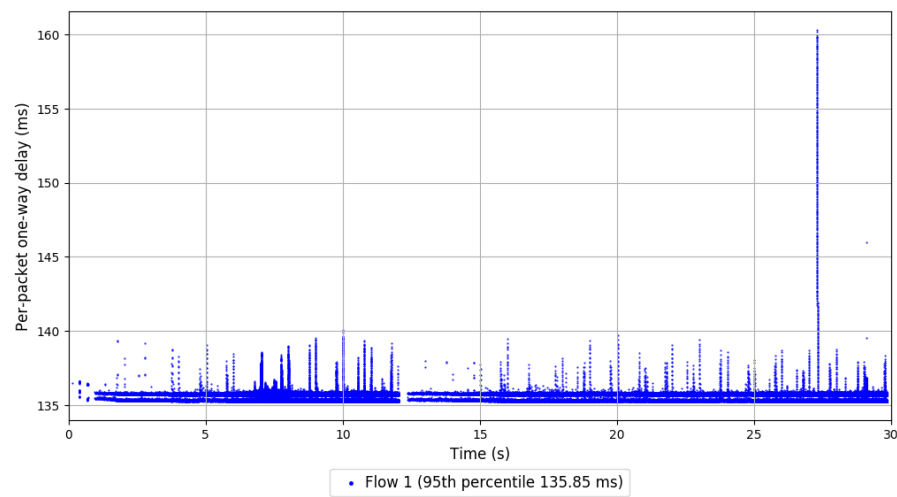
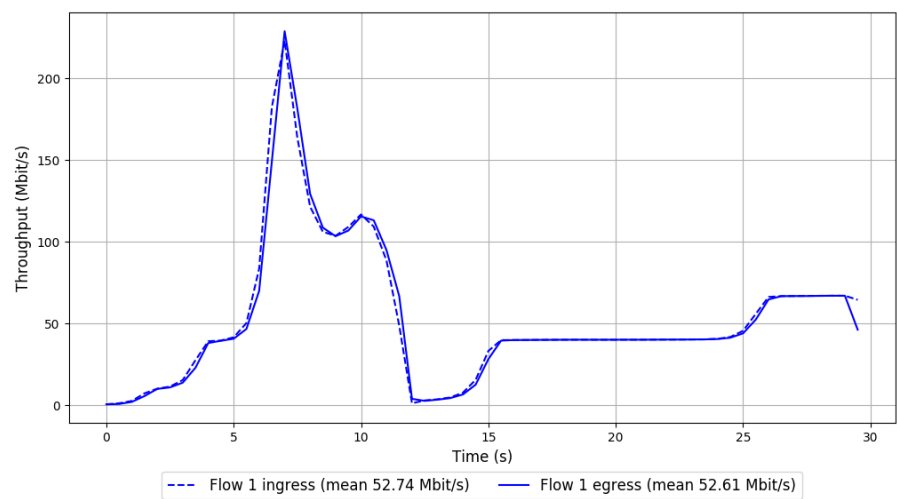
-- Flow 1:

Average throughput: 52.61 Mbit/s

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

Loss rate: 1.15%

Run 10: Report of Copa — Data Link

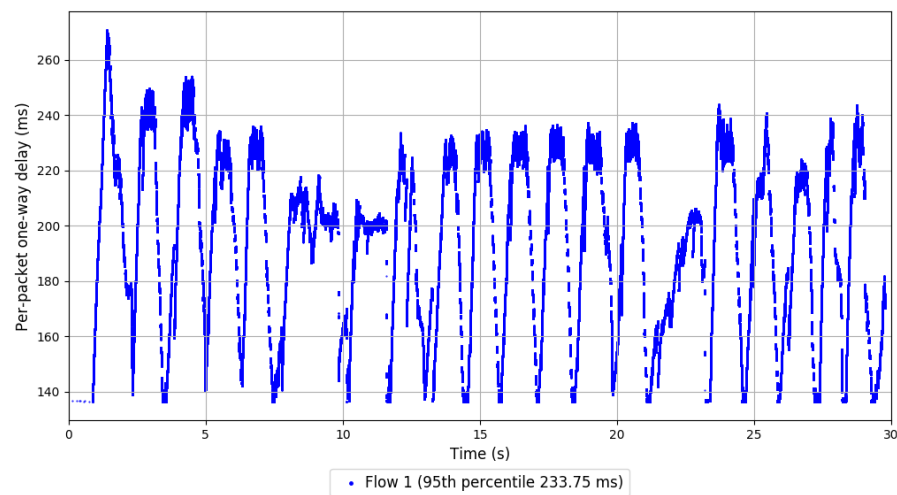
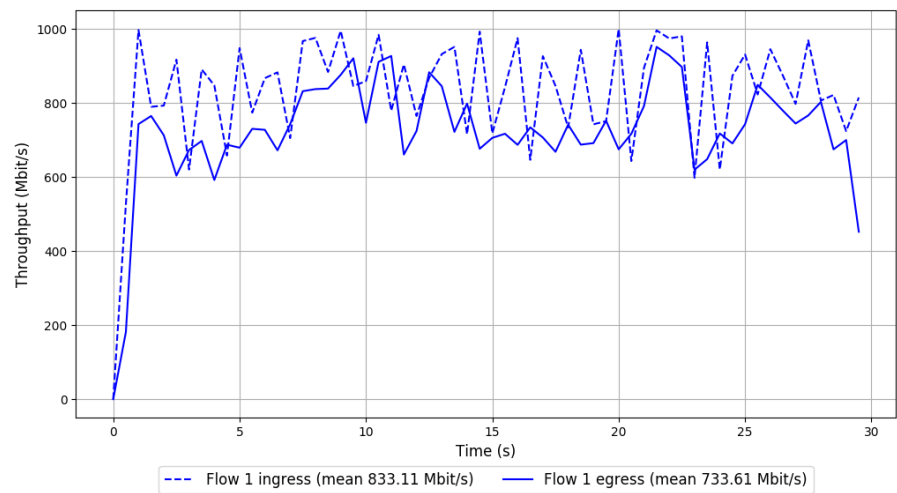


```
Run 1: Statistics of FillP

Start at: 2018-03-27 12:20:41
End at: 2018-03-27 12:21:11

# Below is generated by plot.py at 2018-03-27 18:22:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 733.61 Mbit/s
95th percentile per-packet one-way delay: 233.751 ms
Loss rate: 12.75%
-- Flow 1:
Average throughput: 733.61 Mbit/s
95th percentile per-packet one-way delay: 233.751 ms
Loss rate: 12.75%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-03-27 12:36:14

End at: 2018-03-27 12:36:44

Below is generated by plot.py at 2018-03-27 18:22:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 717.53 Mbit/s

95th percentile per-packet one-way delay: 238.424 ms

Loss rate: 13.64%

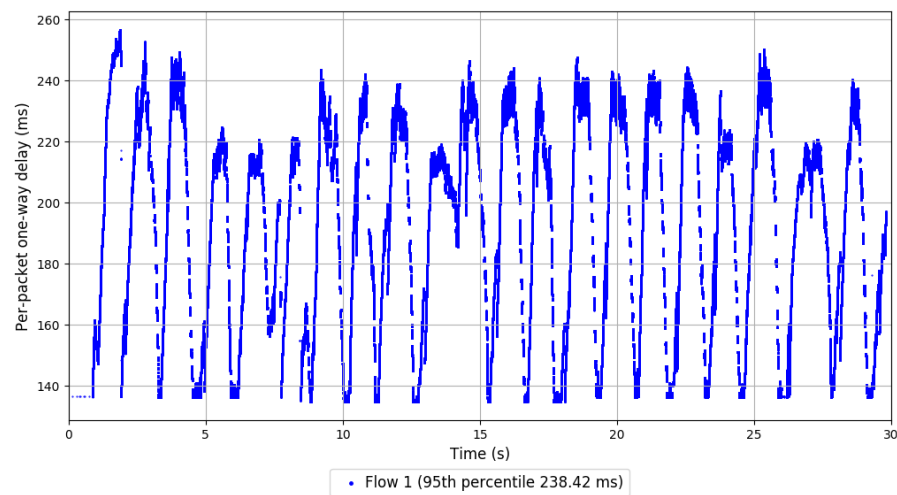
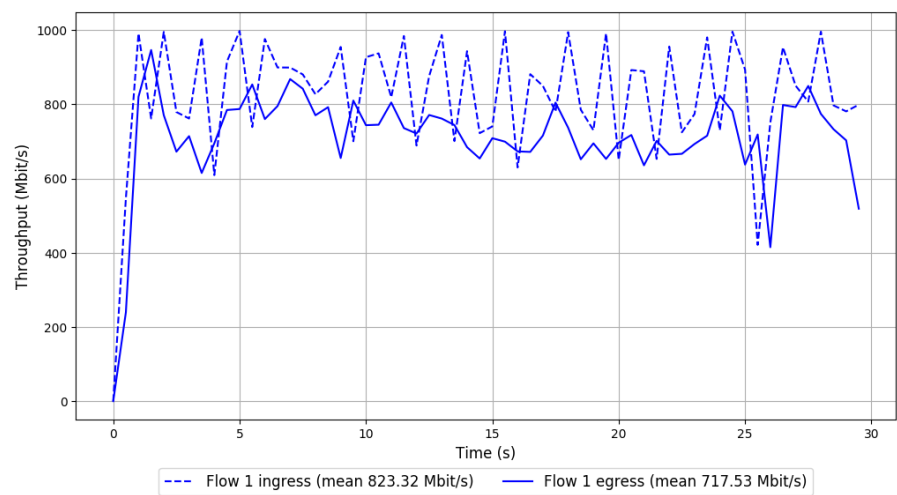
-- Flow 1:

Average throughput: 717.53 Mbit/s

95th percentile per-packet one-way delay: 238.424 ms

Loss rate: 13.64%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-03-27 12:51:57

End at: 2018-03-27 12:52:27

Below is generated by plot.py at 2018-03-27 18:22:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 721.55 Mbit/s

95th percentile per-packet one-way delay: 240.100 ms

Loss rate: 13.17%

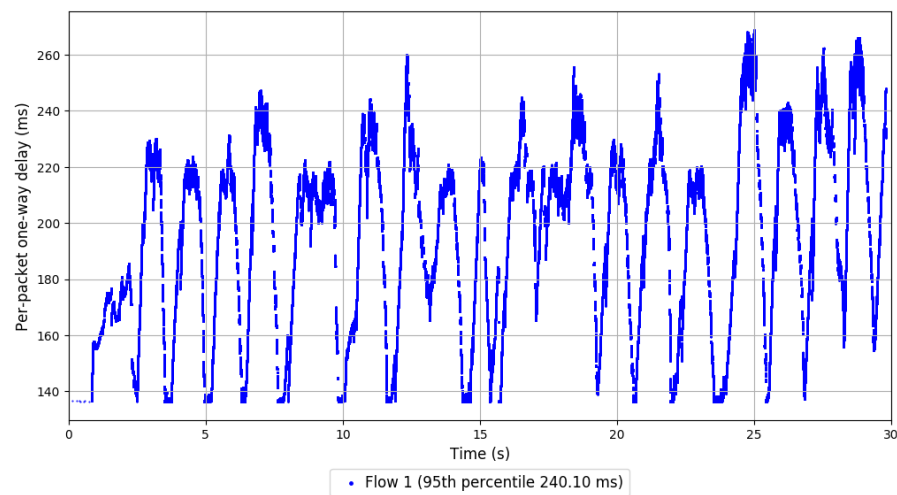
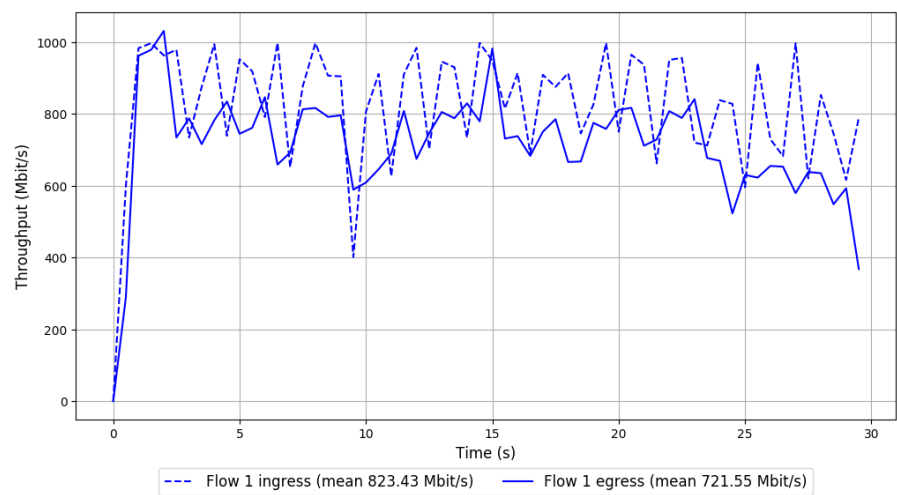
-- Flow 1:

Average throughput: 721.55 Mbit/s

95th percentile per-packet one-way delay: 240.100 ms

Loss rate: 13.17%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-03-27 13:07:37

End at: 2018-03-27 13:08:07

Below is generated by plot.py at 2018-03-27 18:23:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 741.91 Mbit/s

95th percentile per-packet one-way delay: 234.867 ms

Loss rate: 12.40%

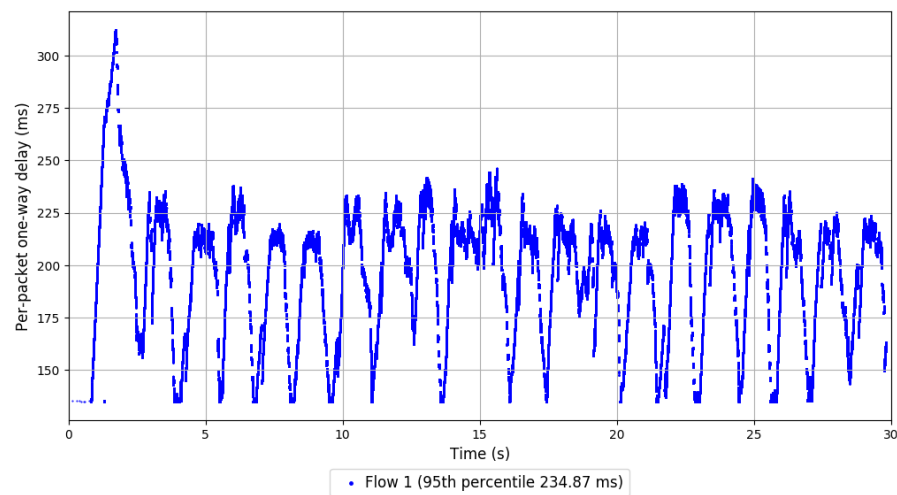
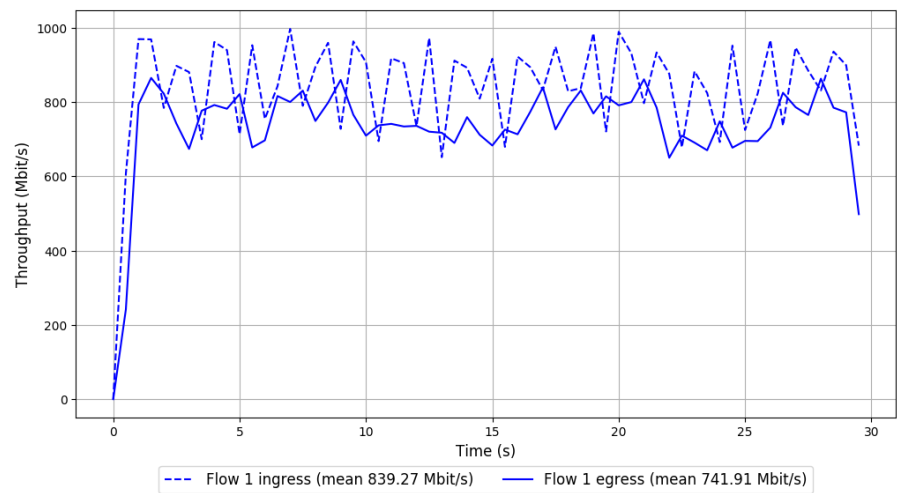
-- Flow 1:

Average throughput: 741.91 Mbit/s

95th percentile per-packet one-way delay: 234.867 ms

Loss rate: 12.40%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-03-27 13:23:10

End at: 2018-03-27 13:23:40

Below is generated by plot.py at 2018-03-27 18:23:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 730.53 Mbit/s

95th percentile per-packet one-way delay: 242.799 ms

Loss rate: 13.12%

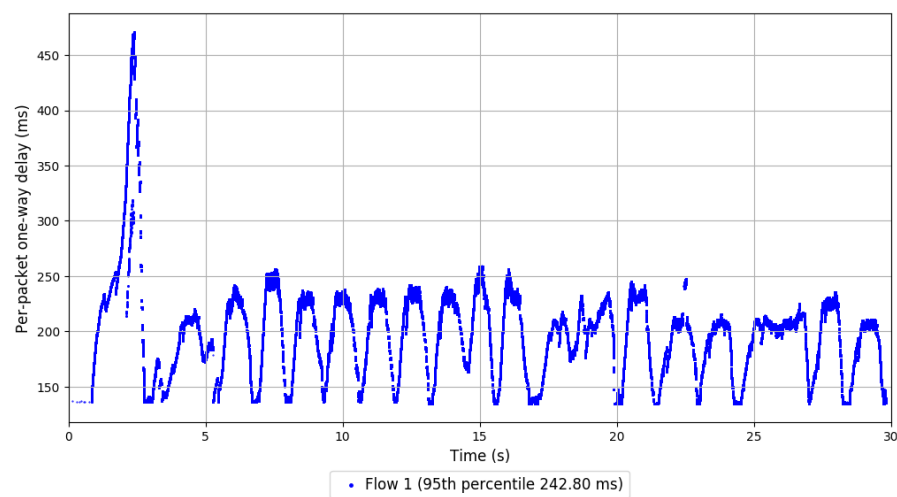
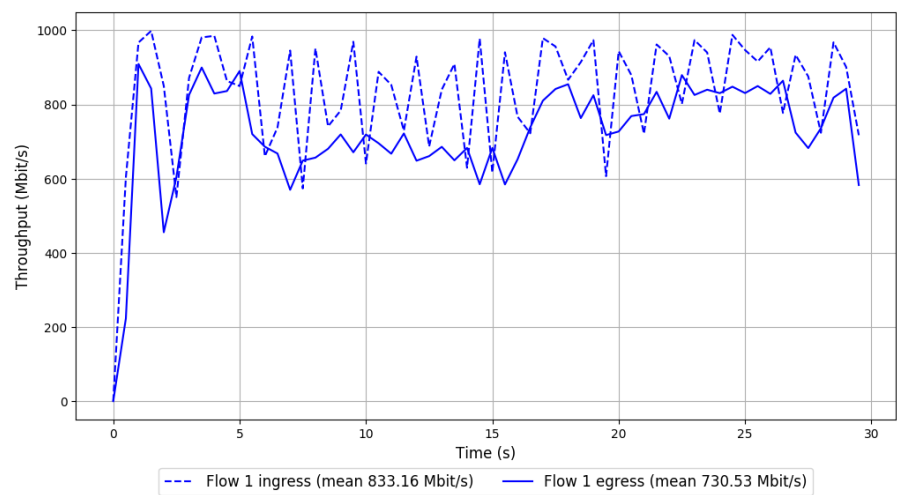
-- Flow 1:

Average throughput: 730.53 Mbit/s

95th percentile per-packet one-way delay: 242.799 ms

Loss rate: 13.12%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-03-27 13:39:10

End at: 2018-03-27 13:39:40

Below is generated by plot.py at 2018-03-27 18:23:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 744.56 Mbit/s

95th percentile per-packet one-way delay: 231.850 ms

Loss rate: 11.54%

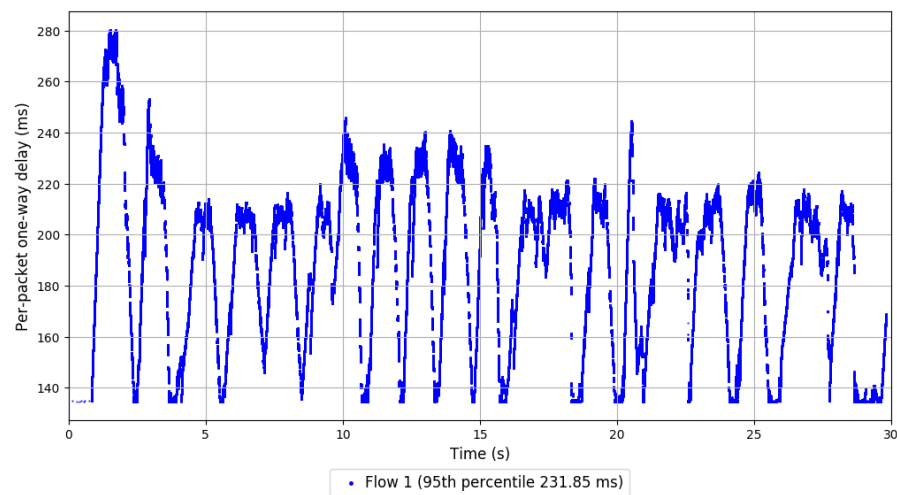
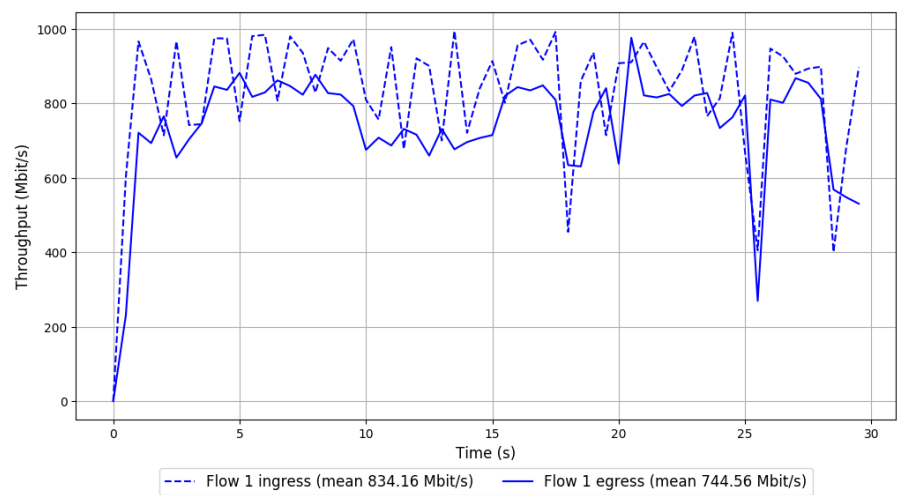
-- Flow 1:

Average throughput: 744.56 Mbit/s

95th percentile per-packet one-way delay: 231.850 ms

Loss rate: 11.54%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-03-27 13:55:07

End at: 2018-03-27 13:55:37

Below is generated by plot.py at 2018-03-27 18:24:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 788.12 Mbit/s

95th percentile per-packet one-way delay: 226.893 ms

Loss rate: 9.24%

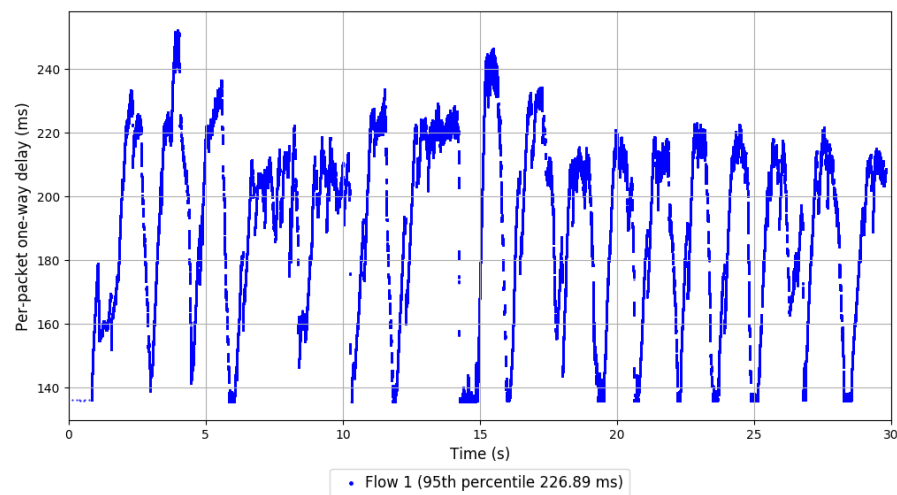
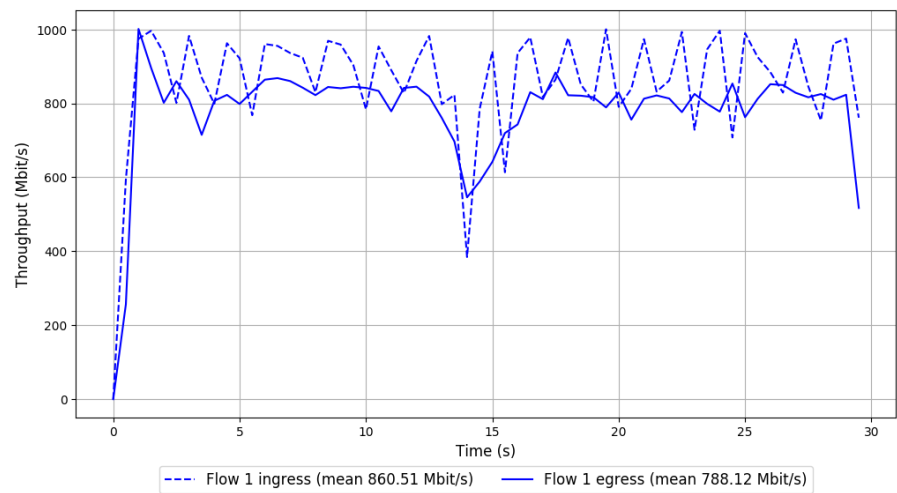
-- Flow 1:

Average throughput: 788.12 Mbit/s

95th percentile per-packet one-way delay: 226.893 ms

Loss rate: 9.24%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-03-27 14:10:42

End at: 2018-03-27 14:11:12

Below is generated by plot.py at 2018-03-27 18:24:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 755.30 Mbit/s

95th percentile per-packet one-way delay: 258.080 ms

Loss rate: 11.56%

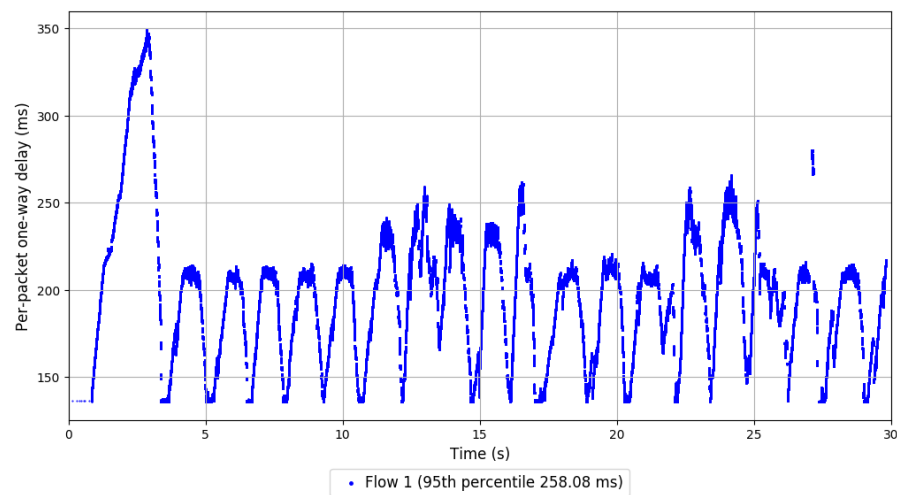
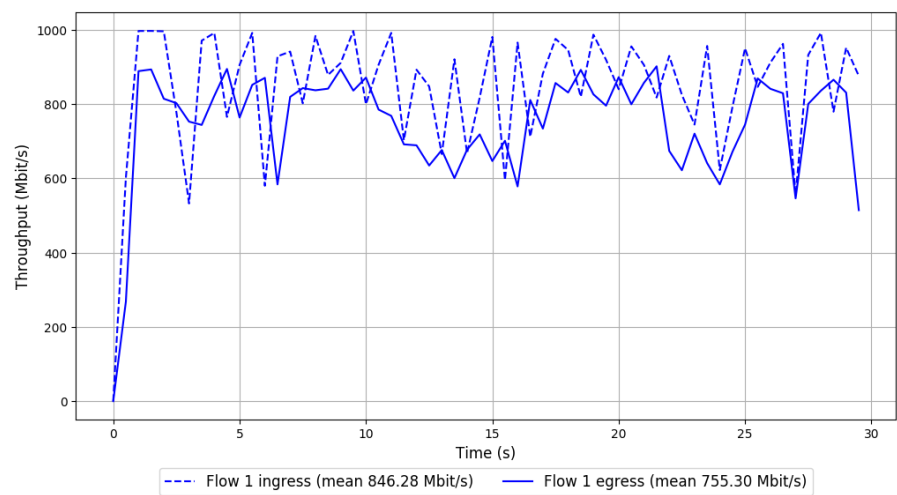
-- Flow 1:

Average throughput: 755.30 Mbit/s

95th percentile per-packet one-way delay: 258.080 ms

Loss rate: 11.56%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-03-27 14:26:40

End at: 2018-03-27 14:27:10

Below is generated by plot.py at 2018-03-27 18:39:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 743.92 Mbit/s

95th percentile per-packet one-way delay: 239.820 ms

Loss rate: 10.99%

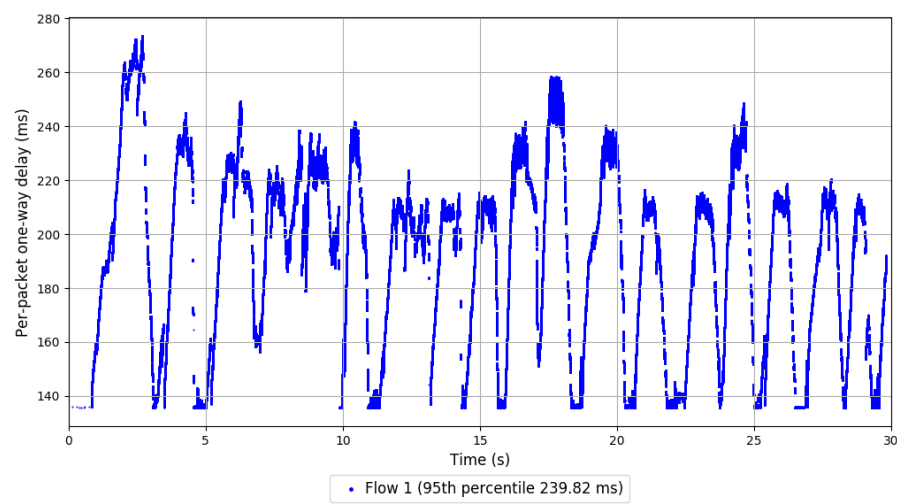
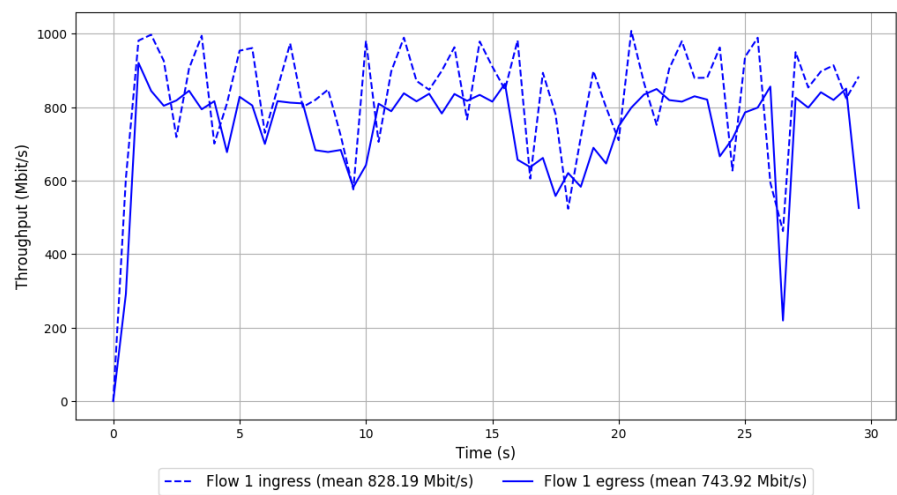
-- Flow 1:

Average throughput: 743.92 Mbit/s

95th percentile per-packet one-way delay: 239.820 ms

Loss rate: 10.99%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-03-27 14:42:27

End at: 2018-03-27 14:42:57

Below is generated by plot.py at 2018-03-27 18:40:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 763.85 Mbit/s

95th percentile per-packet one-way delay: 230.160 ms

Loss rate: 10.63%

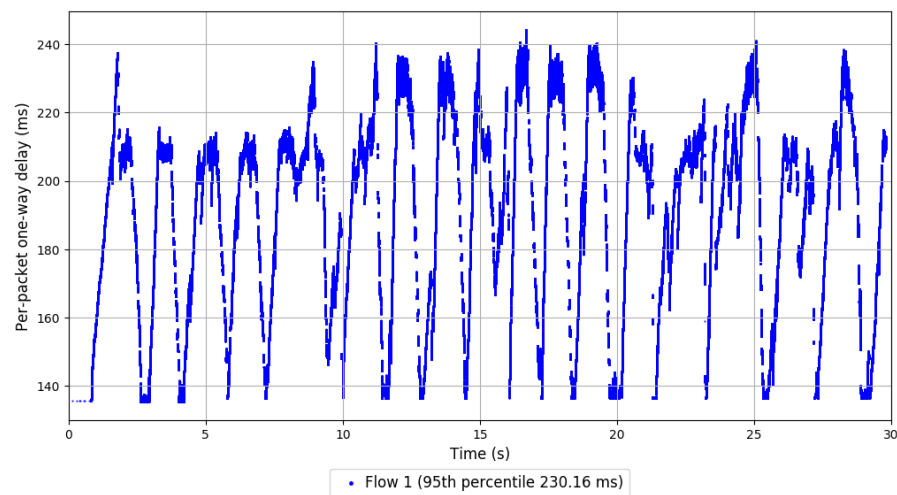
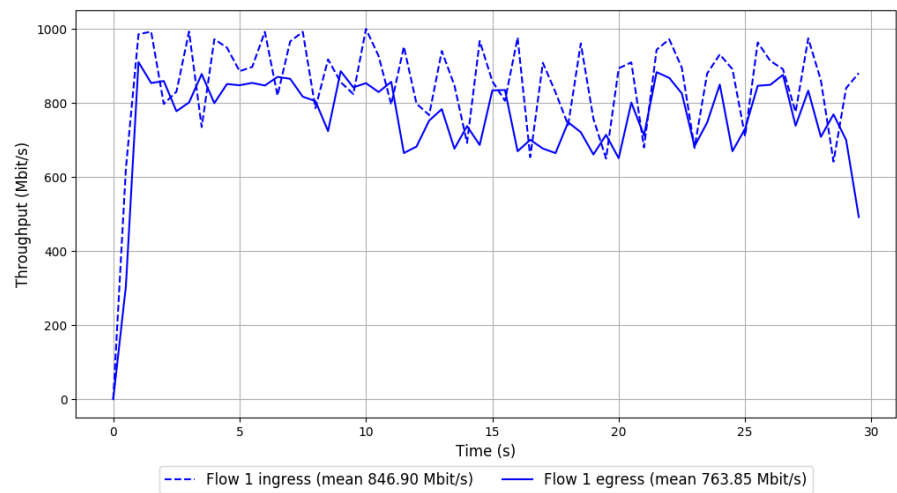
-- Flow 1:

Average throughput: 763.85 Mbit/s

95th percentile per-packet one-way delay: 230.160 ms

Loss rate: 10.63%

Run 10: Report of FillP — Data Link

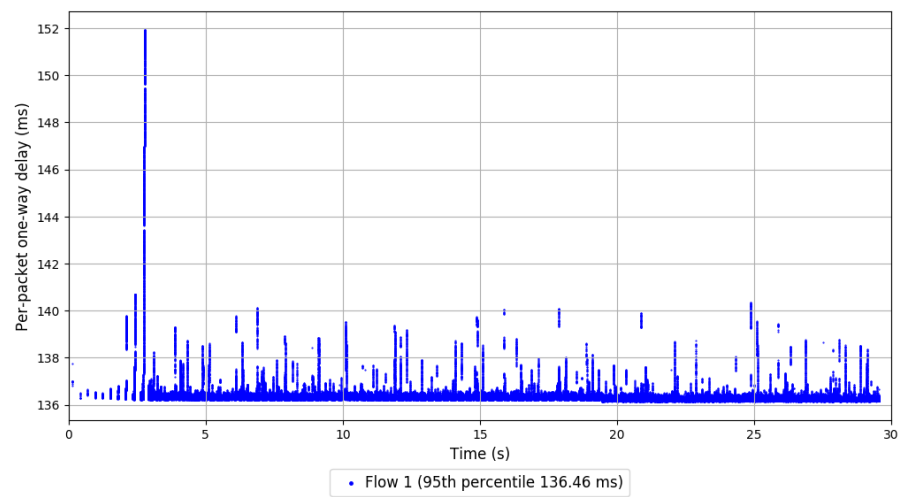
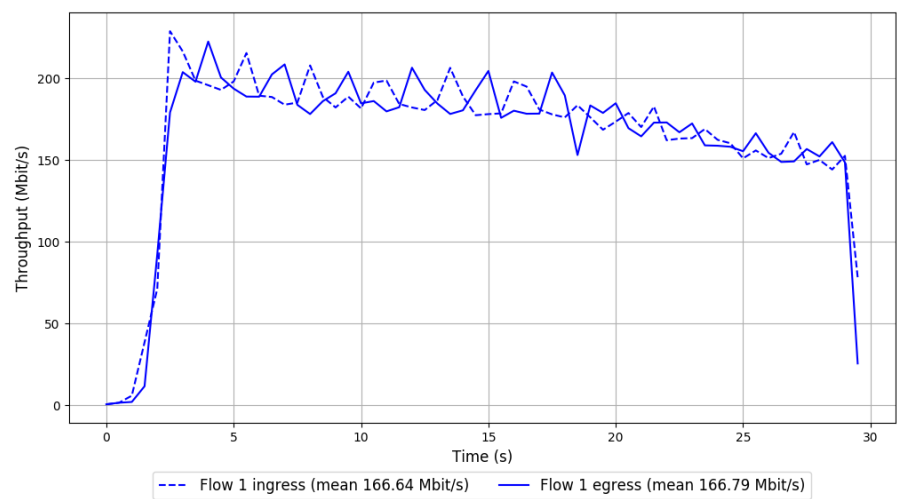


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-03-27 12:18:03
End at: 2018-03-27 12:18:33

# Below is generated by plot.py at 2018-03-27 18:40:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 166.79 Mbit/s
95th percentile per-packet one-way delay: 136.460 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 166.79 Mbit/s
95th percentile per-packet one-way delay: 136.460 ms
Loss rate: 0.84%
```

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

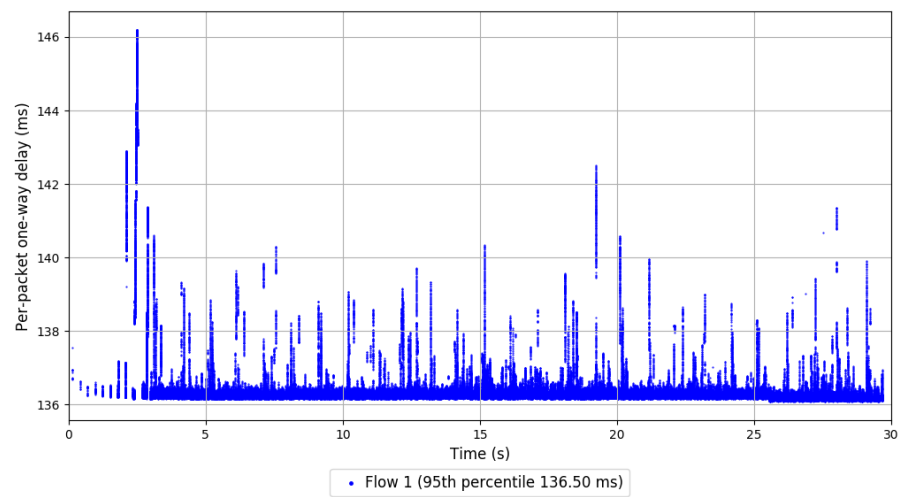
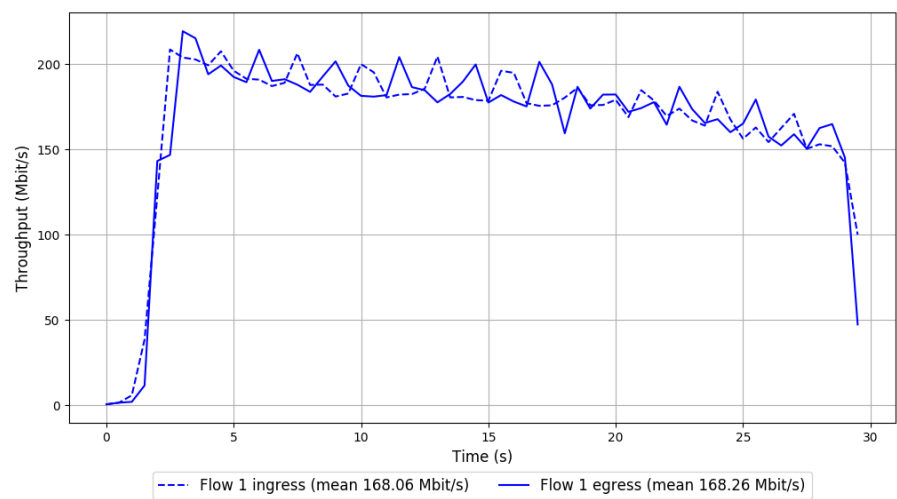


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-03-27 12:33:37
End at: 2018-03-27 12:34:07

# Below is generated by plot.py at 2018-03-27 18:40:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 168.26 Mbit/s
95th percentile per-packet one-way delay: 136.497 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 168.26 Mbit/s
95th percentile per-packet one-way delay: 136.497 ms
Loss rate: 0.80%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-03-27 12:49:18

End at: 2018-03-27 12:49:48

Below is generated by plot.py at 2018-03-27 18:40:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.89 Mbit/s

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

Loss rate: 0.88%

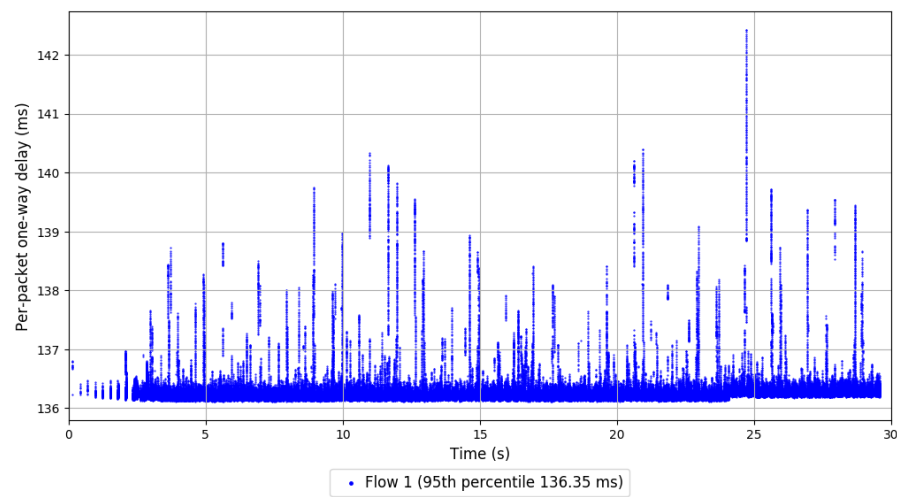
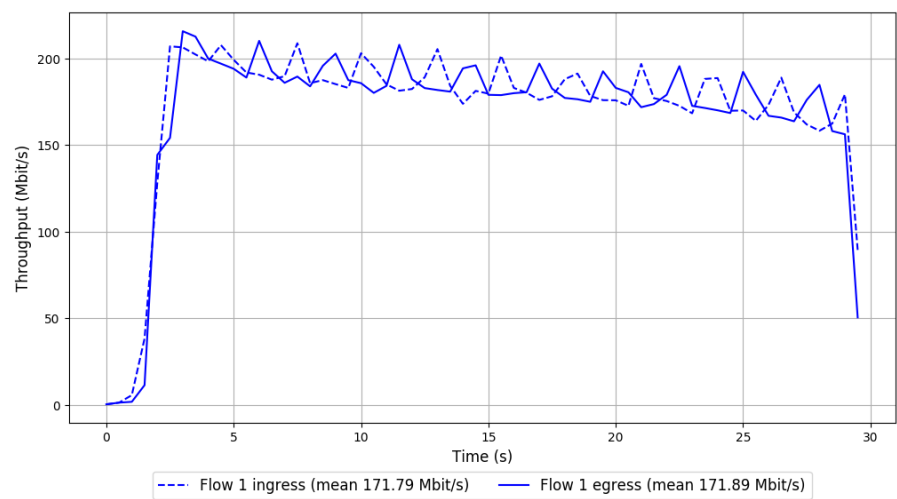
-- Flow 1:

Average throughput: 171.89 Mbit/s

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

Loss rate: 0.88%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-03-27 13:04:55

End at: 2018-03-27 13:05:25

Below is generated by plot.py at 2018-03-27 18:40:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.14 Mbit/s

95th percentile per-packet one-way delay: 136.475 ms

Loss rate: 0.87%

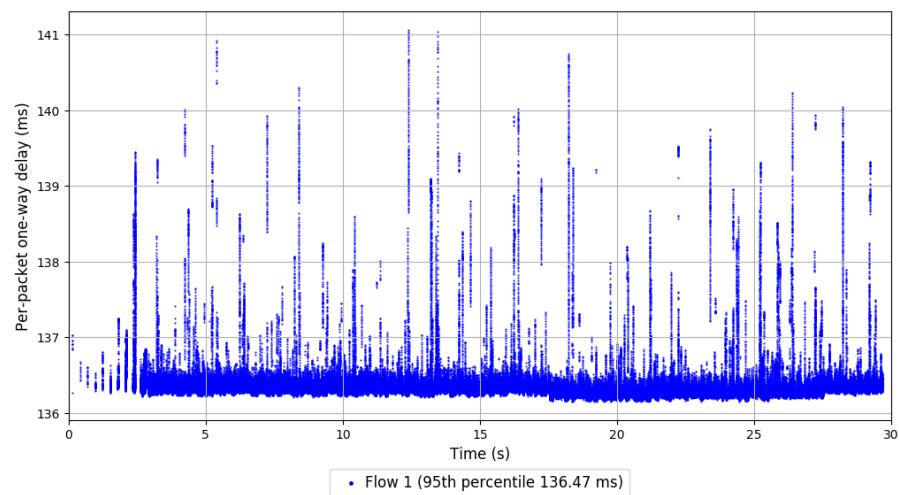
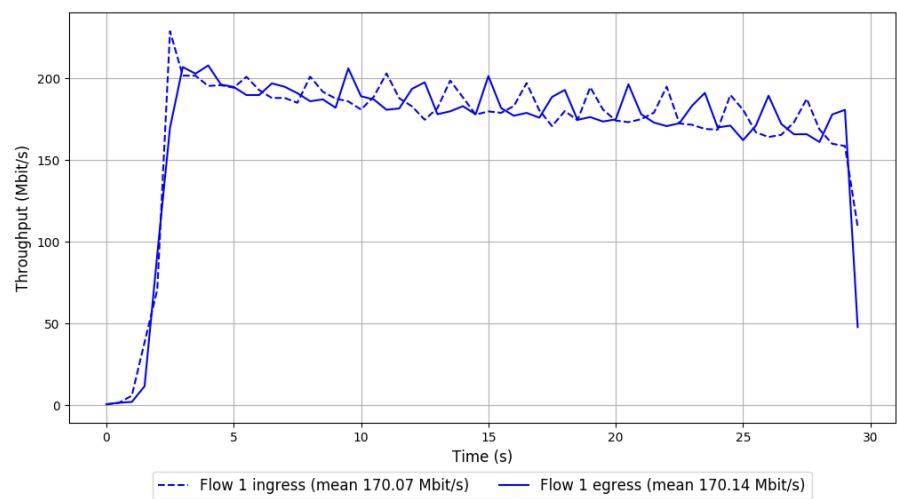
-- Flow 1:

Average throughput: 170.14 Mbit/s

95th percentile per-packet one-way delay: 136.475 ms

Loss rate: 0.87%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-03-27 13:20:32

End at: 2018-03-27 13:21:02

Below is generated by plot.py at 2018-03-27 18:40:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.61 Mbit/s

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

Loss rate: 0.84%

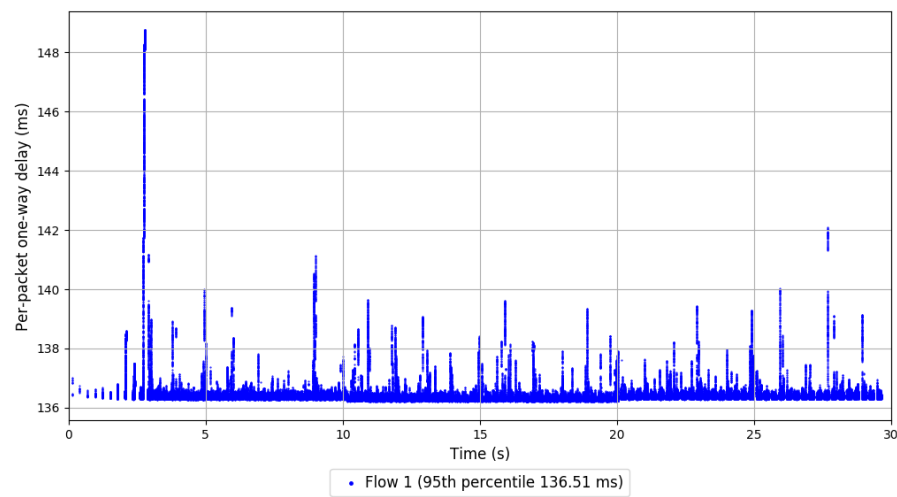
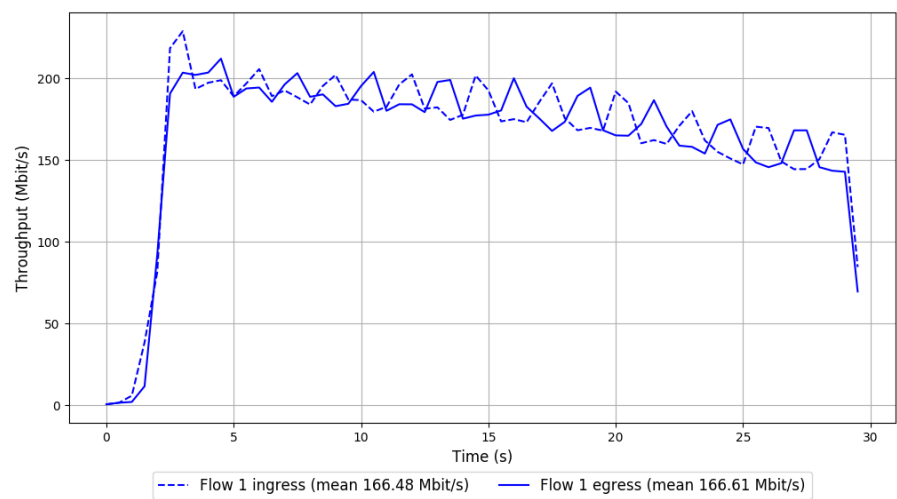
-- Flow 1:

Average throughput: 166.61 Mbit/s

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

Loss rate: 0.84%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-03-27 13:36:28

End at: 2018-03-27 13:36:58

Below is generated by plot.py at 2018-03-27 18:40:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.42 Mbit/s

95th percentile per-packet one-way delay: 134.813 ms

Loss rate: 0.91%

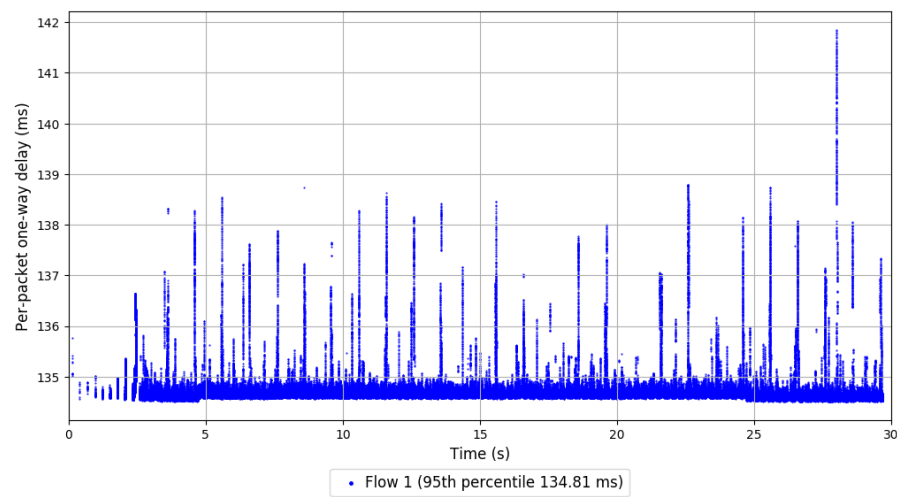
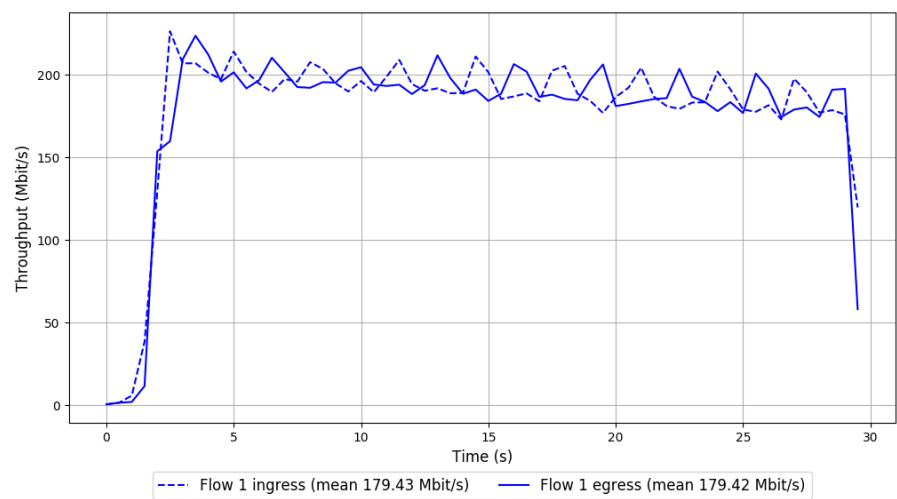
-- Flow 1:

Average throughput: 179.42 Mbit/s

95th percentile per-packet one-way delay: 134.813 ms

Loss rate: 0.91%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-03-27 13:52:29

End at: 2018-03-27 13:52:59

Below is generated by plot.py at 2018-03-27 18:40:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.47 Mbit/s

95th percentile per-packet one-way delay: 134.815 ms

Loss rate: 0.81%

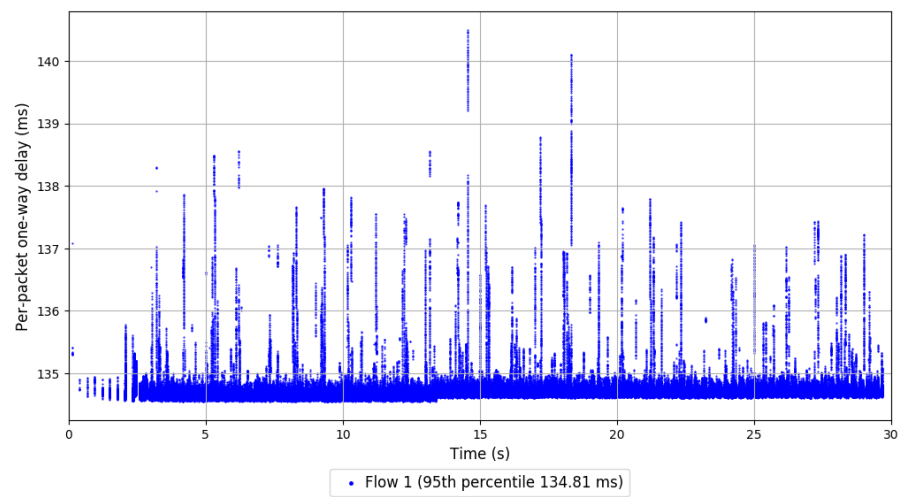
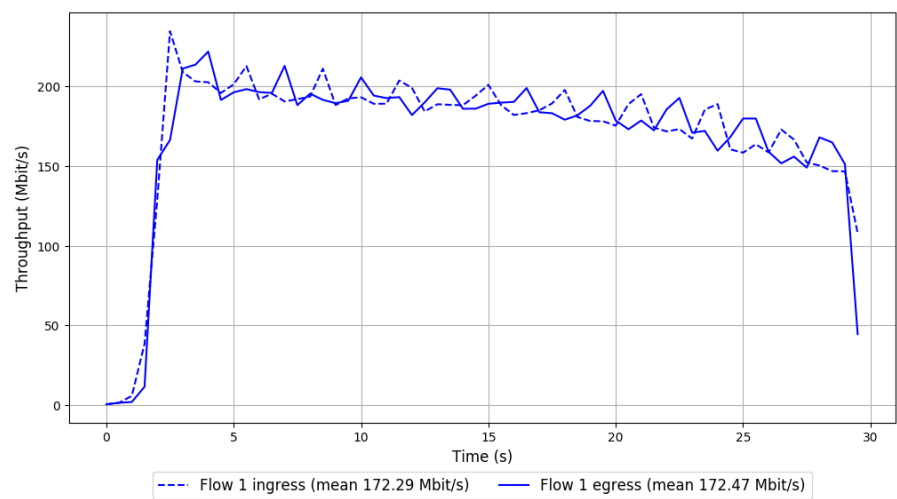
-- Flow 1:

Average throughput: 172.47 Mbit/s

95th percentile per-packet one-way delay: 134.815 ms

Loss rate: 0.81%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-03-27 14:08:00

End at: 2018-03-27 14:08:30

Below is generated by plot.py at 2018-03-27 18:40:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.60 Mbit/s

95th percentile per-packet one-way delay: 136.668 ms

Loss rate: 0.90%

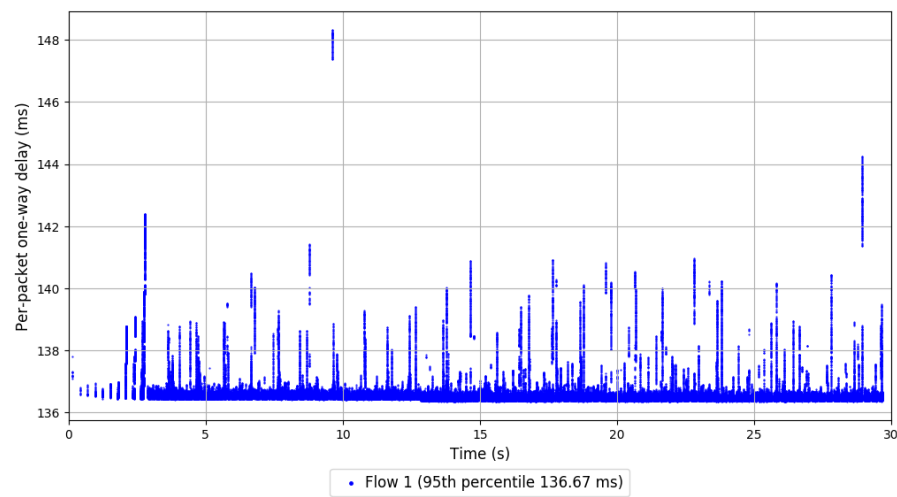
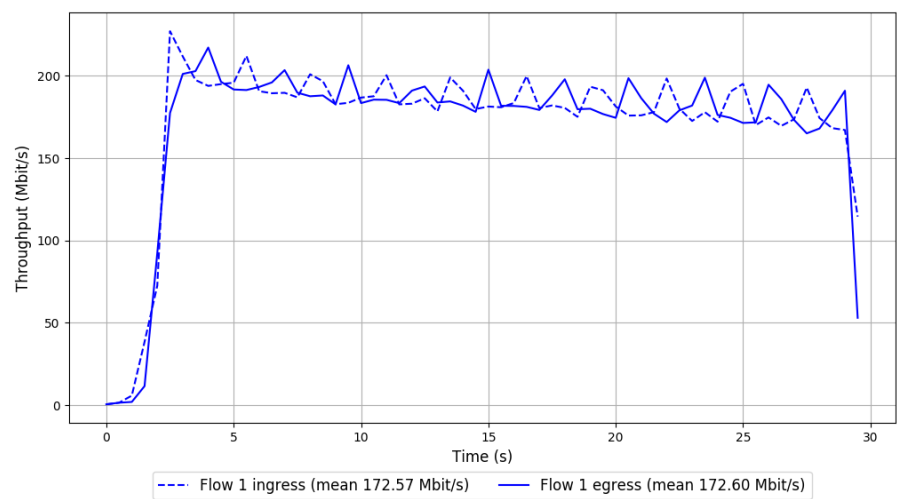
-- Flow 1:

Average throughput: 172.60 Mbit/s

95th percentile per-packet one-way delay: 136.668 ms

Loss rate: 0.90%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-03-27 14:23:57

End at: 2018-03-27 14:24:27

Below is generated by plot.py at 2018-03-27 18:40:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.03 Mbit/s

95th percentile per-packet one-way delay: 136.729 ms

Loss rate: 0.93%

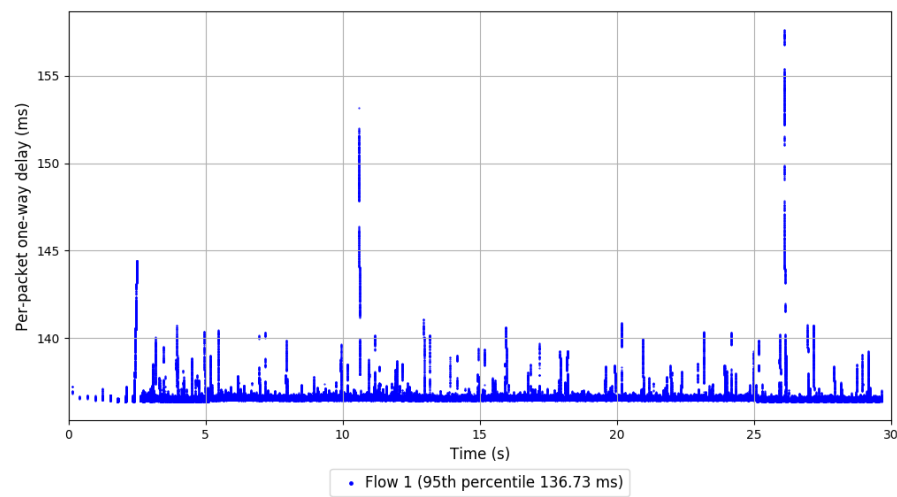
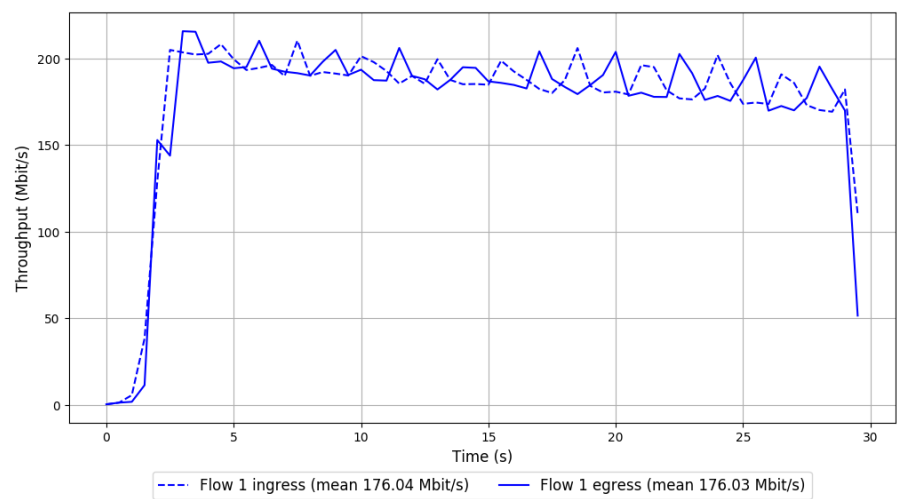
-- Flow 1:

Average throughput: 176.03 Mbit/s

95th percentile per-packet one-way delay: 136.729 ms

Loss rate: 0.93%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-03-27 14:39:45

End at: 2018-03-27 14:40:15

Below is generated by plot.py at 2018-03-27 18:40:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.45 Mbit/s

95th percentile per-packet one-way delay: 135.813 ms

Loss rate: 0.90%

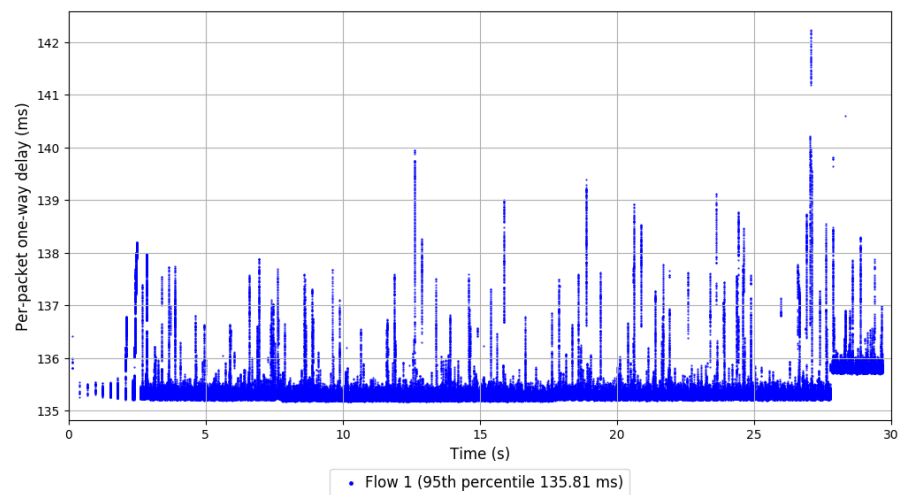
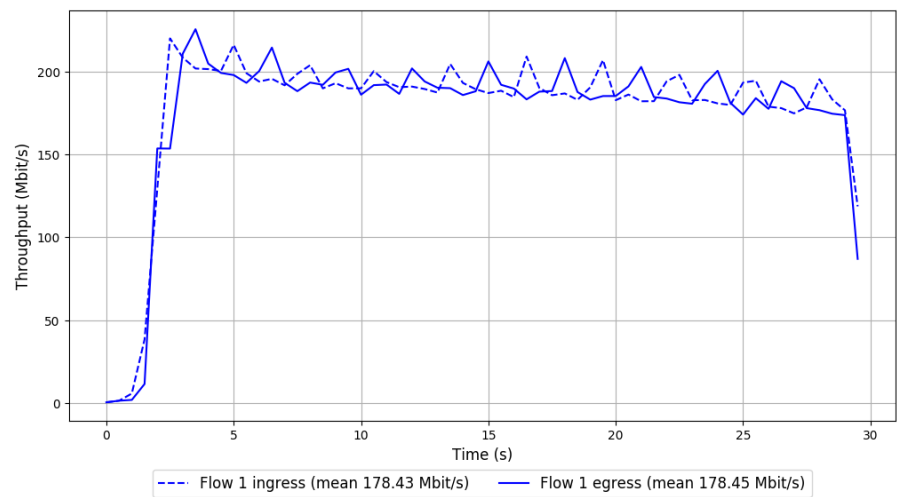
-- Flow 1:

Average throughput: 178.45 Mbit/s

95th percentile per-packet one-way delay: 135.813 ms

Loss rate: 0.90%

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

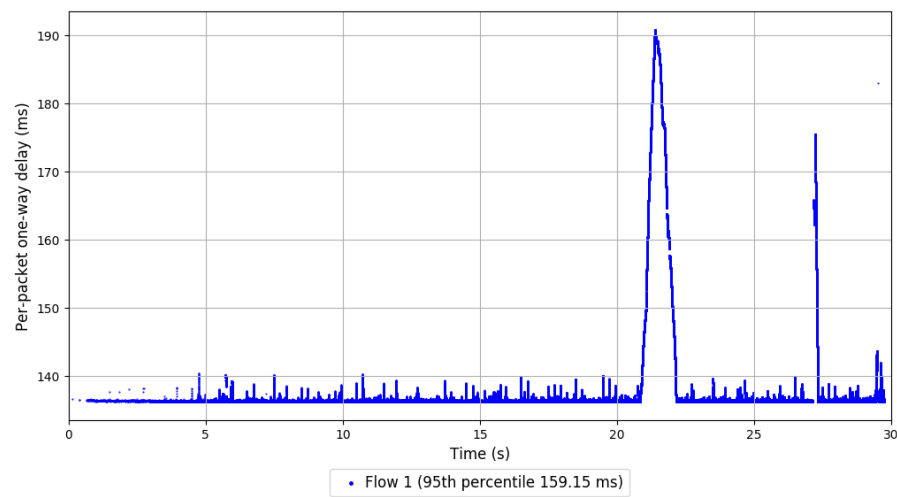
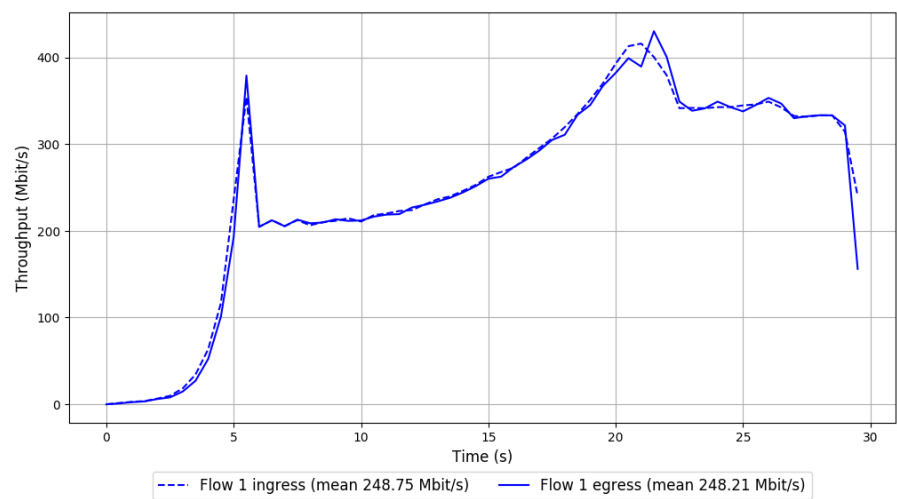


```
Run 1: Statistics of Vivace-latency

Start at: 2018-03-27 12:18:57
End at: 2018-03-27 12:19:27

# Below is generated by plot.py at 2018-03-27 18:40:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 248.21 Mbit/s
95th percentile per-packet one-way delay: 159.152 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 248.21 Mbit/s
95th percentile per-packet one-way delay: 159.152 ms
Loss rate: 1.13%
```

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-03-27 12:34:31

End at: 2018-03-27 12:35:01

Below is generated by plot.py at 2018-03-27 18:40:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.81 Mbit/s

95th percentile per-packet one-way delay: 138.583 ms

Loss rate: 1.25%

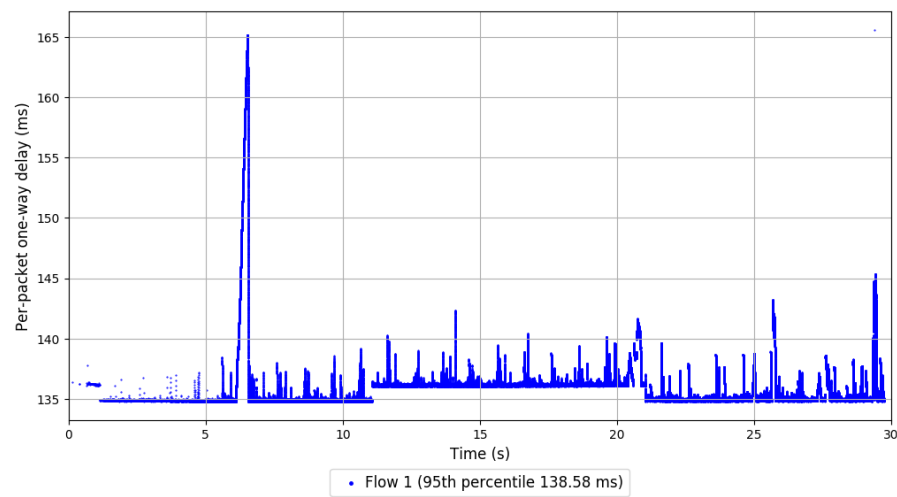
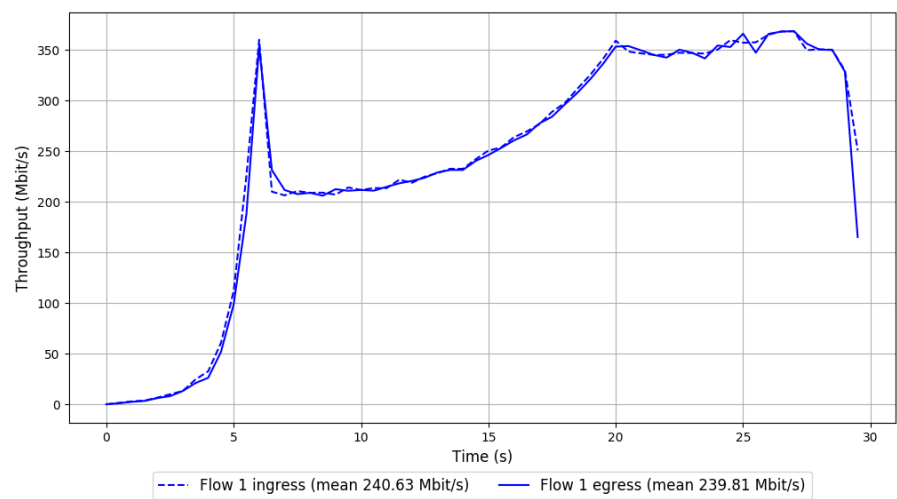
-- Flow 1:

Average throughput: 239.81 Mbit/s

95th percentile per-packet one-way delay: 138.583 ms

Loss rate: 1.25%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-03-27 12:50:13

End at: 2018-03-27 12:50:43

Below is generated by plot.py at 2018-03-27 18:40:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 255.62 Mbit/s

95th percentile per-packet one-way delay: 170.764 ms

Loss rate: 1.63%

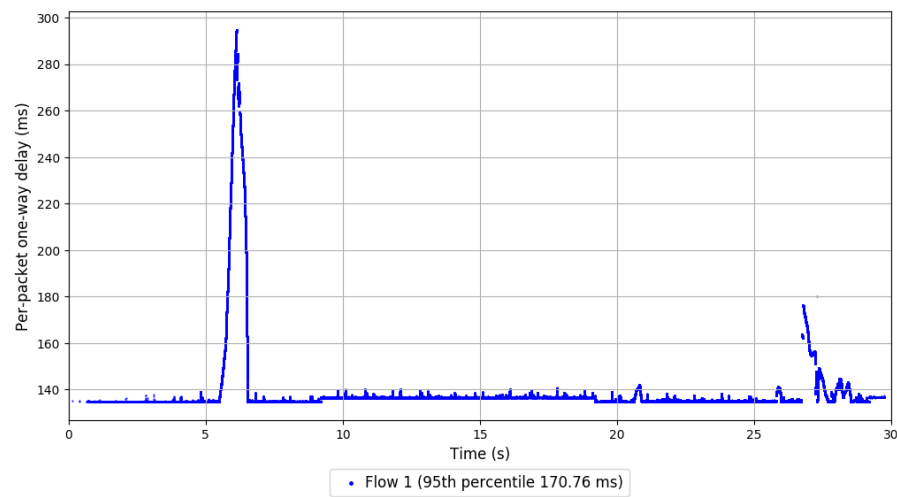
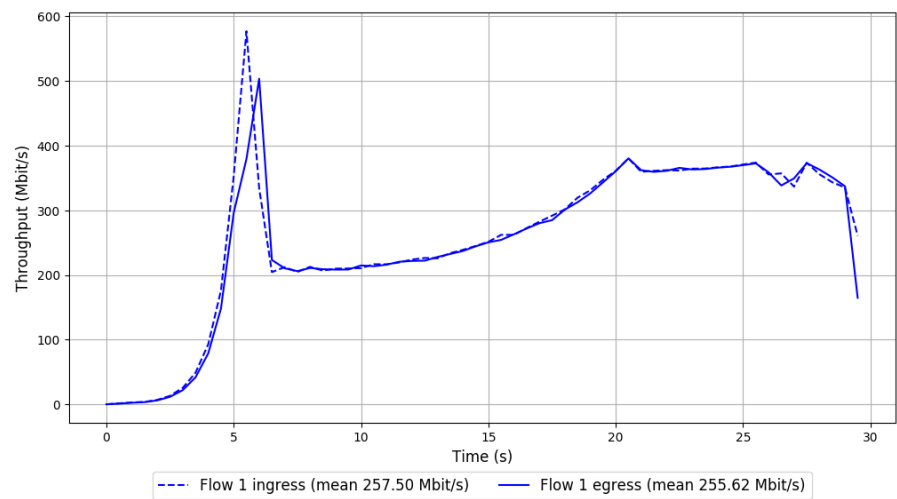
-- Flow 1:

Average throughput: 255.62 Mbit/s

95th percentile per-packet one-way delay: 170.764 ms

Loss rate: 1.63%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-03-27 13:05:49

End at: 2018-03-27 13:06:19

Below is generated by plot.py at 2018-03-27 18:40:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 305.06 Mbit/s

95th percentile per-packet one-way delay: 198.304 ms

Loss rate: 0.99%

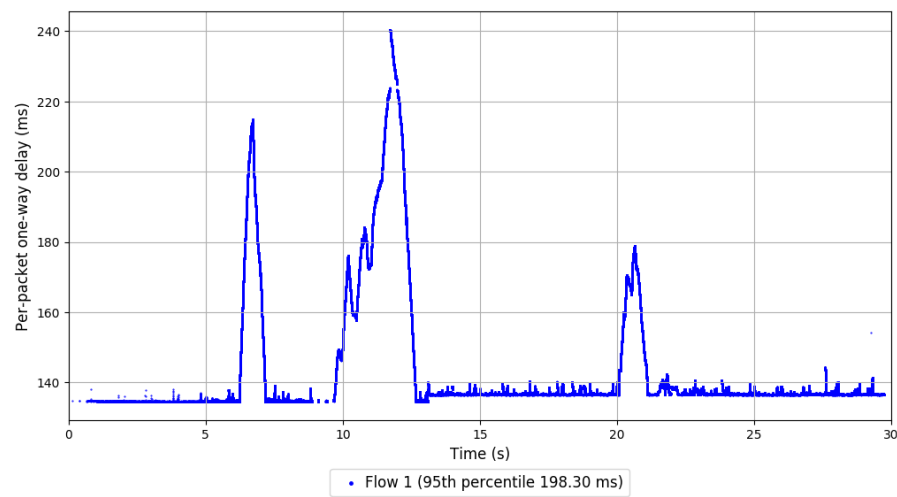
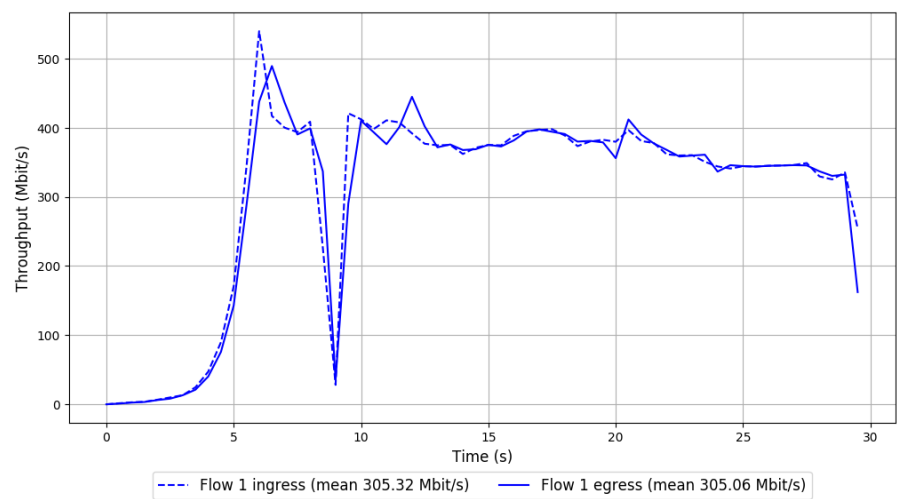
-- Flow 1:

Average throughput: 305.06 Mbit/s

95th percentile per-packet one-way delay: 198.304 ms

Loss rate: 0.99%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-03-27 13:21:27

End at: 2018-03-27 13:21:57

Below is generated by plot.py at 2018-03-27 18:40:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 250.04 Mbit/s

95th percentile per-packet one-way delay: 140.121 ms

Loss rate: 1.41%

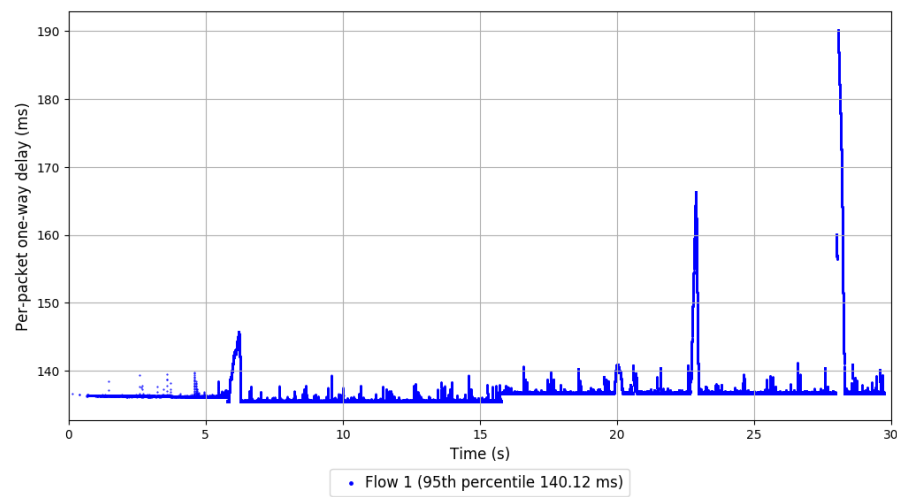
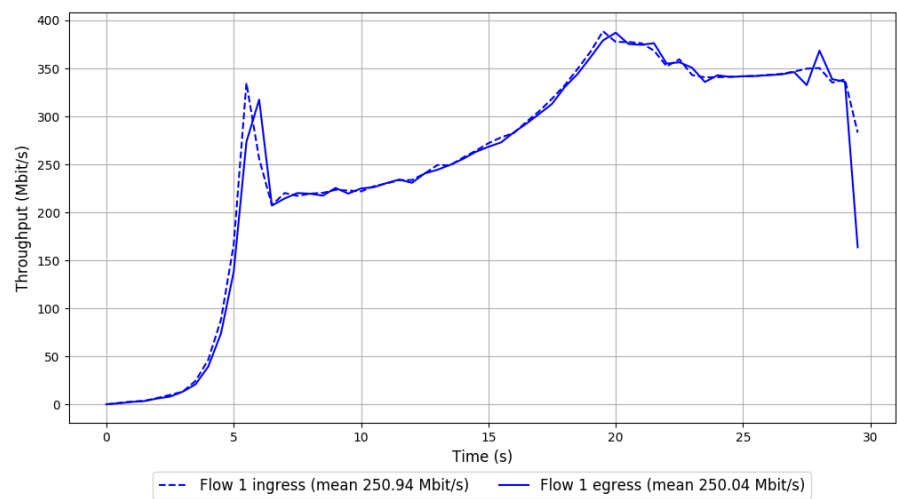
-- Flow 1:

Average throughput: 250.04 Mbit/s

95th percentile per-packet one-way delay: 140.121 ms

Loss rate: 1.41%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-03-27 13:37:23

End at: 2018-03-27 13:37:53

Below is generated by plot.py at 2018-03-27 18:40:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 295.70 Mbit/s

95th percentile per-packet one-way delay: 139.270 ms

Loss rate: 1.12%

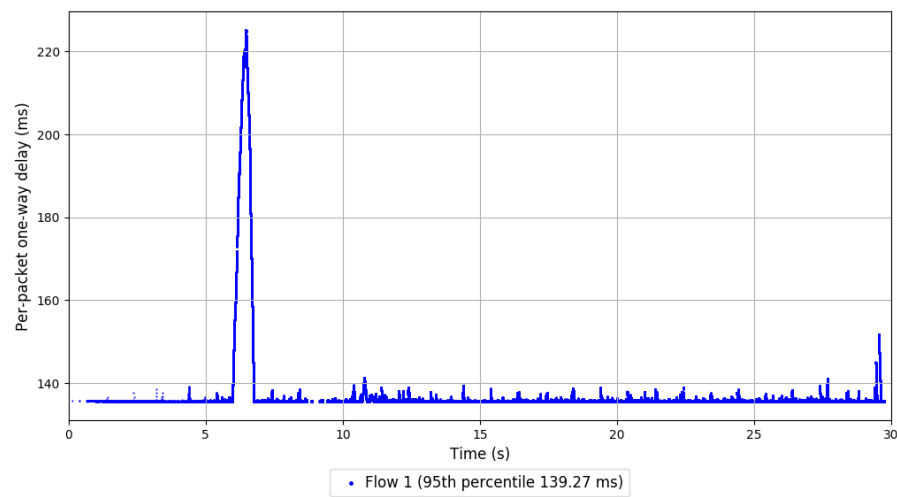
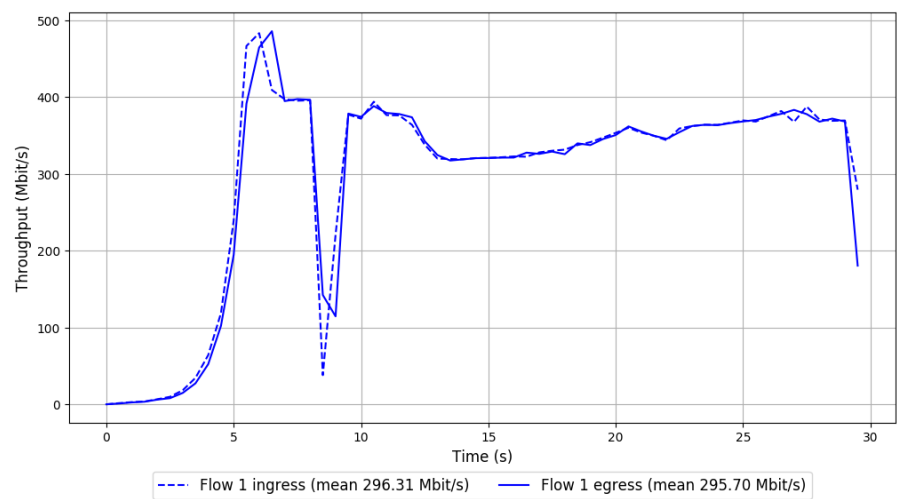
-- Flow 1:

Average throughput: 295.70 Mbit/s

95th percentile per-packet one-way delay: 139.270 ms

Loss rate: 1.12%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-03-27 13:53:24

End at: 2018-03-27 13:53:54

Below is generated by plot.py at 2018-03-27 18:40:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.18 Mbit/s

95th percentile per-packet one-way delay: 231.742 ms

Loss rate: 2.05%

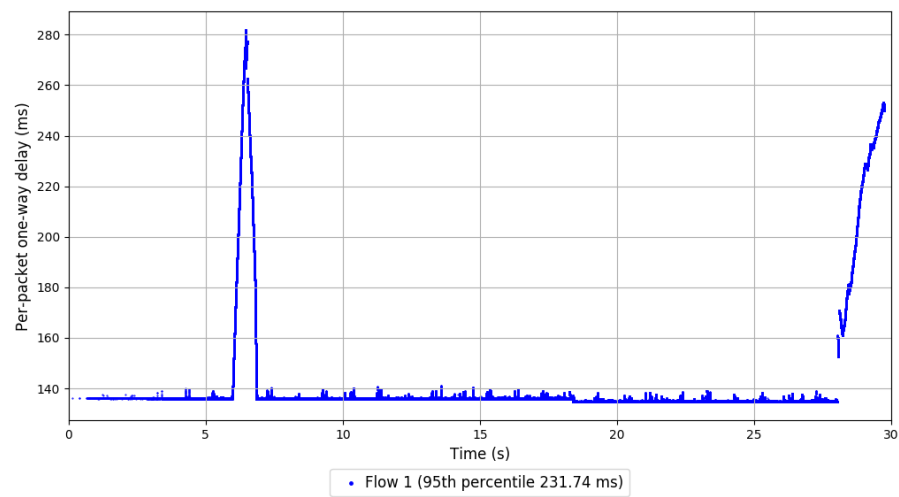
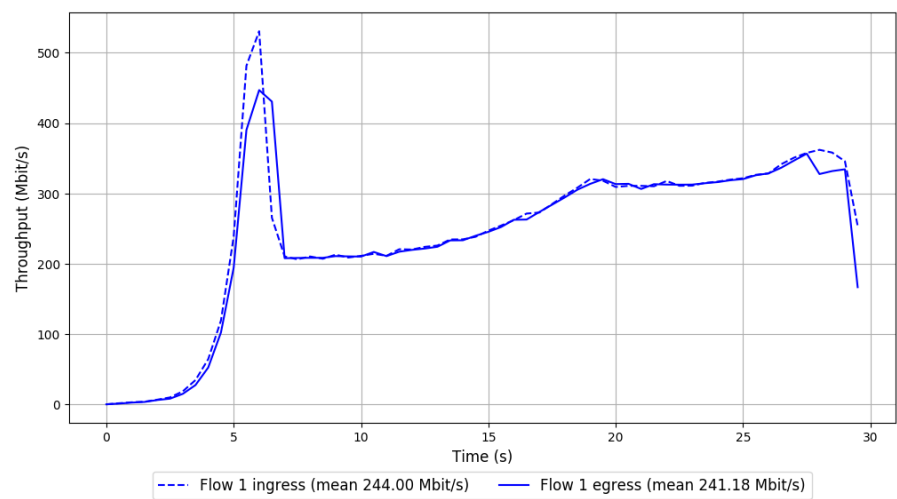
-- Flow 1:

Average throughput: 241.18 Mbit/s

95th percentile per-packet one-way delay: 231.742 ms

Loss rate: 2.05%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-03-27 14:08:55

End at: 2018-03-27 14:09:25

Below is generated by plot.py at 2018-03-27 18:40:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 299.90 Mbit/s

95th percentile per-packet one-way delay: 160.268 ms

Loss rate: 1.20%

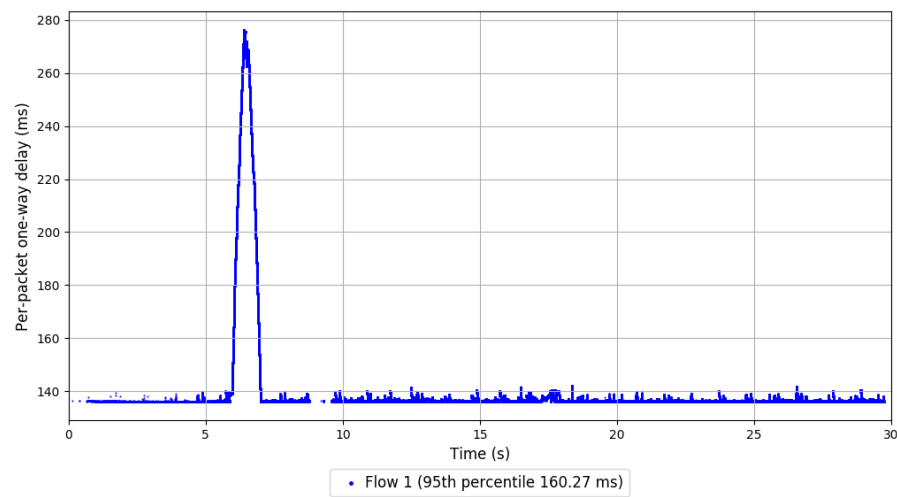
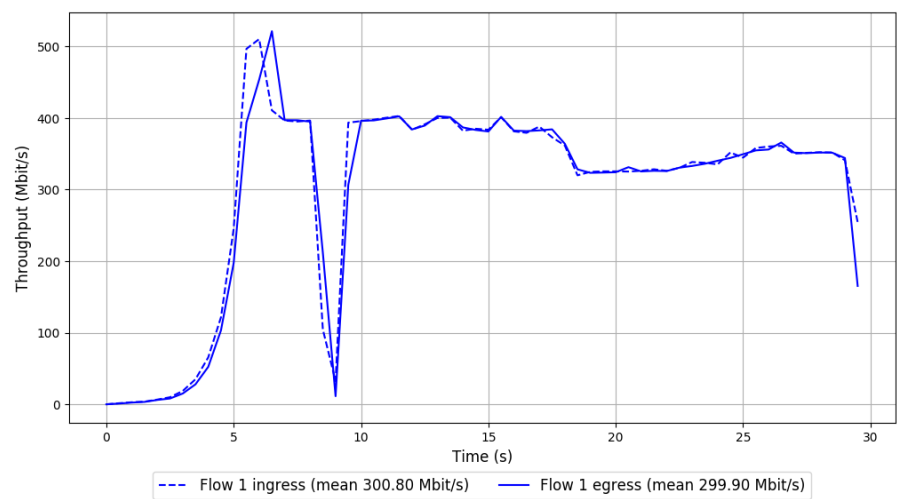
-- Flow 1:

Average throughput: 299.90 Mbit/s

95th percentile per-packet one-way delay: 160.268 ms

Loss rate: 1.20%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-03-27 14:24:53

End at: 2018-03-27 14:25:23

Below is generated by plot.py at 2018-03-27 18:42:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 303.53 Mbit/s

95th percentile per-packet one-way delay: 151.999 ms

Loss rate: 1.16%

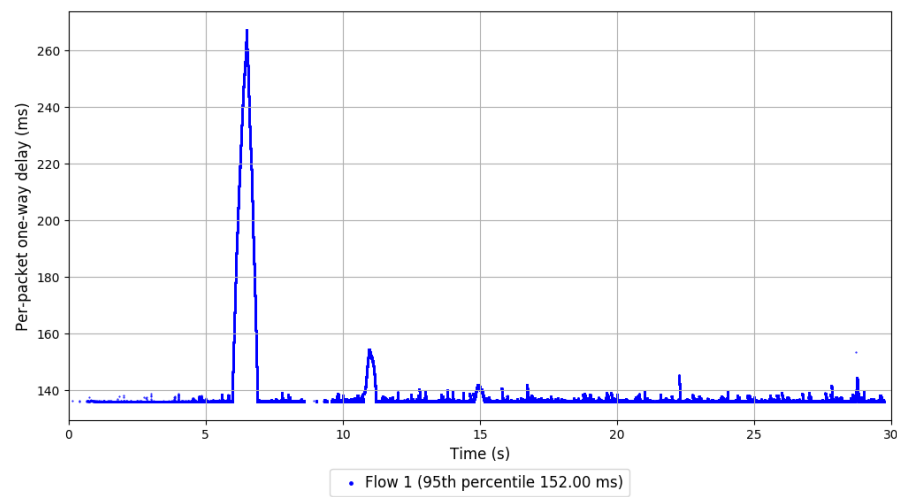
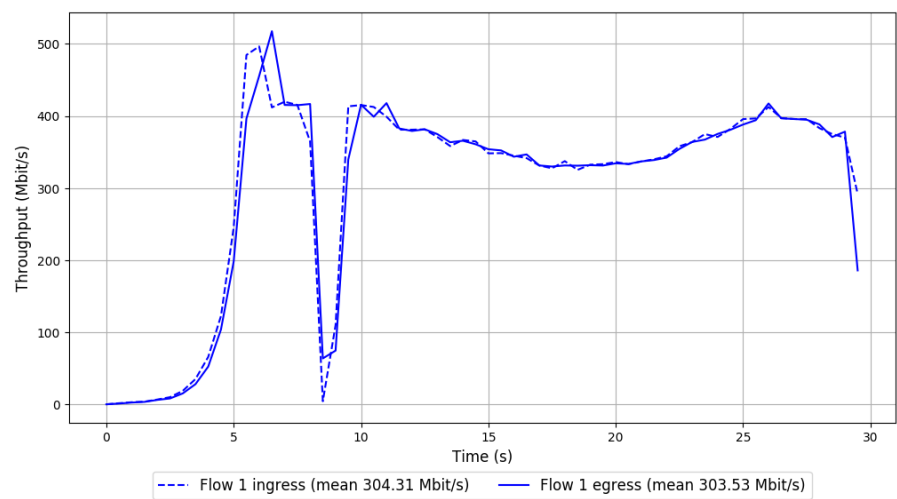
-- Flow 1:

Average throughput: 303.53 Mbit/s

95th percentile per-packet one-way delay: 151.999 ms

Loss rate: 1.16%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-03-27 14:40:40

End at: 2018-03-27 14:41:10

Below is generated by plot.py at 2018-03-27 18:42:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 304.72 Mbit/s

95th percentile per-packet one-way delay: 164.232 ms

Loss rate: 1.45%

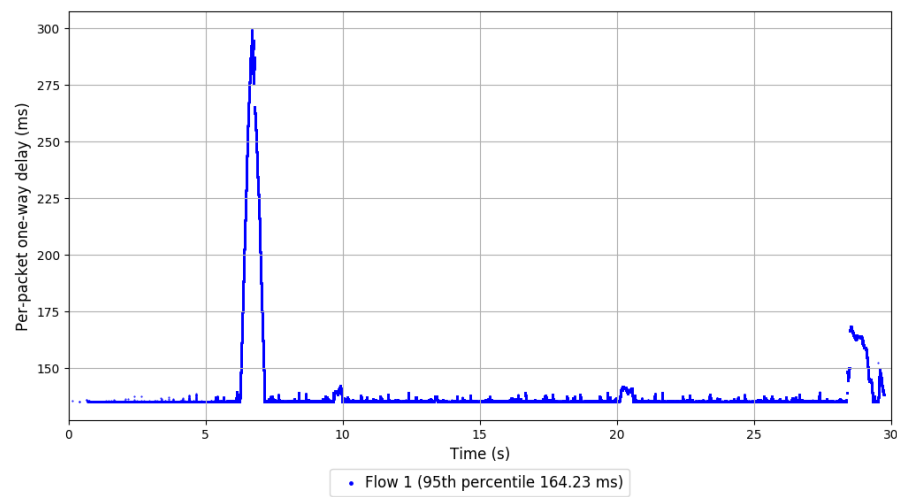
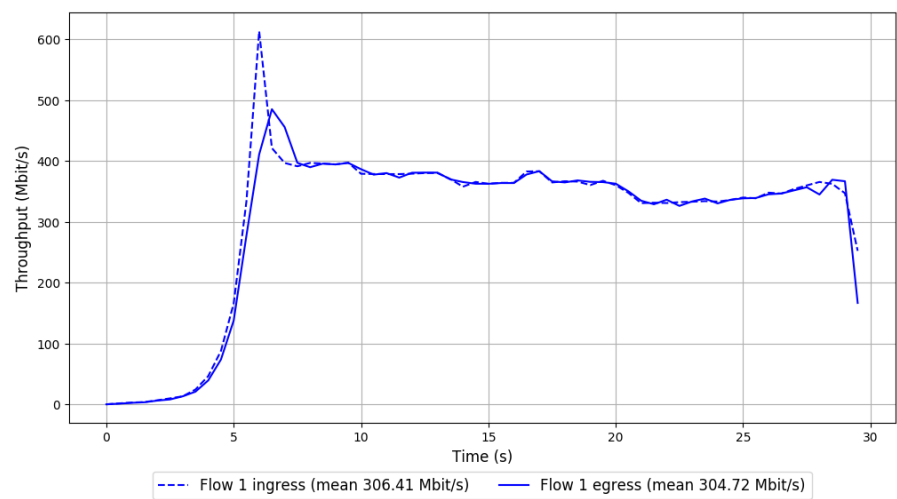
-- Flow 1:

Average throughput: 304.72 Mbit/s

95th percentile per-packet one-way delay: 164.232 ms

Loss rate: 1.45%

Run 10: Report of Vivace-latency — Data Link

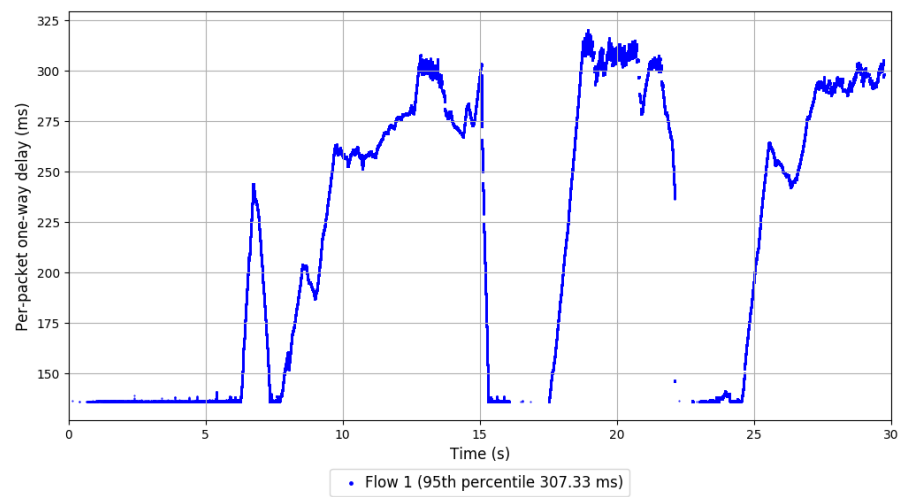
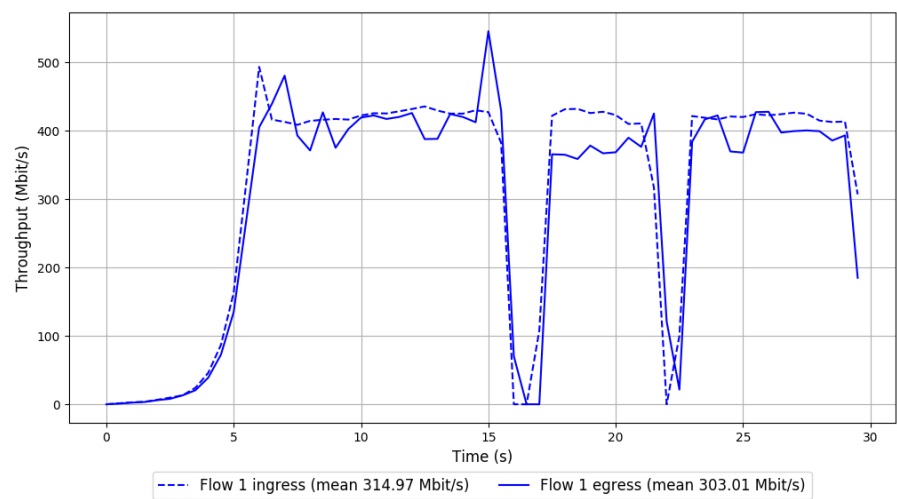


```
Run 1: Statistics of Vivace-loss

Start at: 2018-03-27 12:16:11
End at: 2018-03-27 12:16:41

# Below is generated by plot.py at 2018-03-27 18:43:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 303.01 Mbit/s
95th percentile per-packet one-way delay: 307.332 ms
Loss rate: 4.68%
-- Flow 1:
Average throughput: 303.01 Mbit/s
95th percentile per-packet one-way delay: 307.332 ms
Loss rate: 4.68%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-03-27 12:31:46

End at: 2018-03-27 12:32:16

Below is generated by plot.py at 2018-03-27 18:44:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 293.22 Mbit/s

95th percentile per-packet one-way delay: 307.104 ms

Loss rate: 4.72%

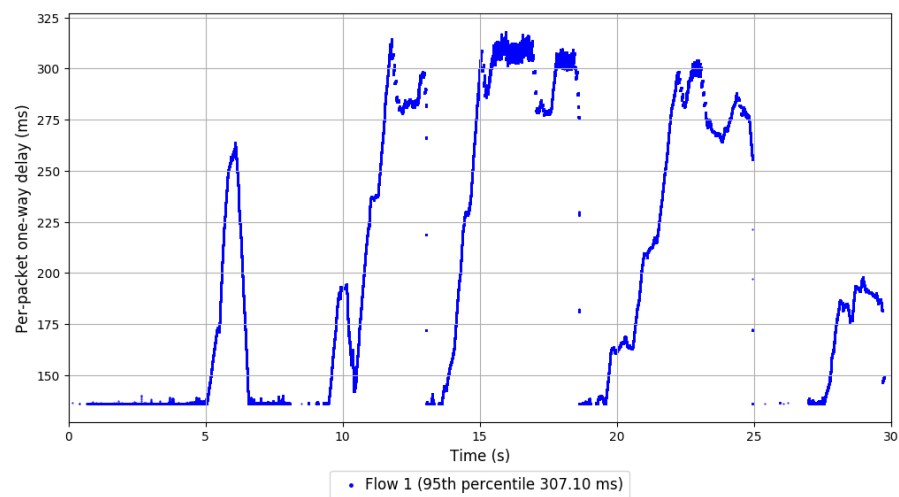
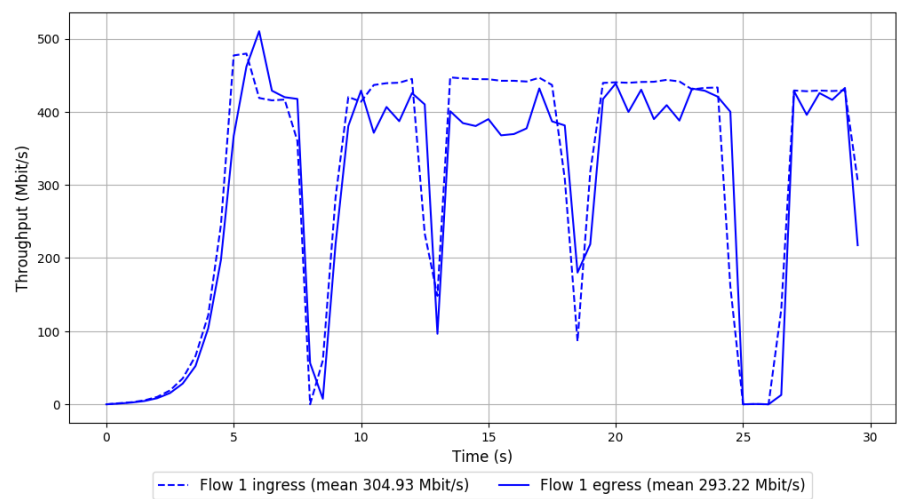
-- Flow 1:

Average throughput: 293.22 Mbit/s

95th percentile per-packet one-way delay: 307.104 ms

Loss rate: 4.72%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-03-27 12:47:30

End at: 2018-03-27 12:48:01

Below is generated by plot.py at 2018-03-27 18:44:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 250.44 Mbit/s

95th percentile per-packet one-way delay: 307.300 ms

Loss rate: 6.54%

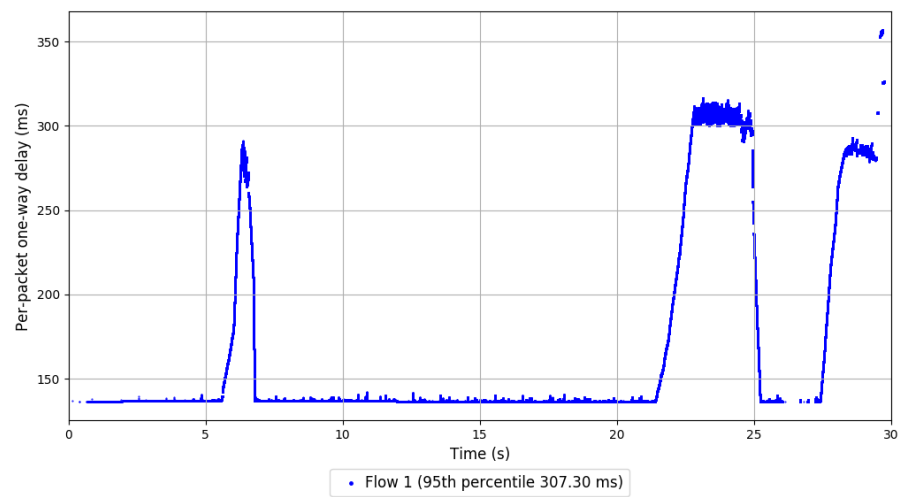
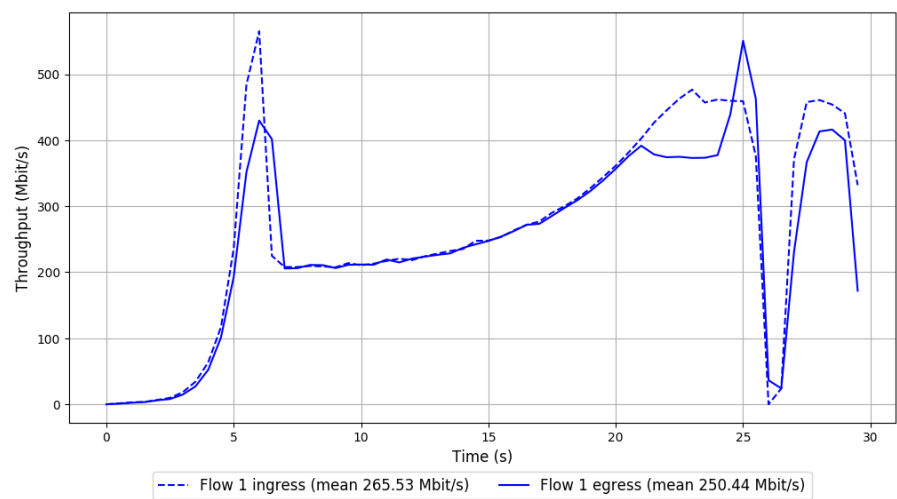
-- Flow 1:

Average throughput: 250.44 Mbit/s

95th percentile per-packet one-way delay: 307.300 ms

Loss rate: 6.54%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-03-27 13:03:07

End at: 2018-03-27 13:03:37

Below is generated by plot.py at 2018-03-27 18:45:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 247.12 Mbit/s

95th percentile per-packet one-way delay: 291.217 ms

Loss rate: 3.46%

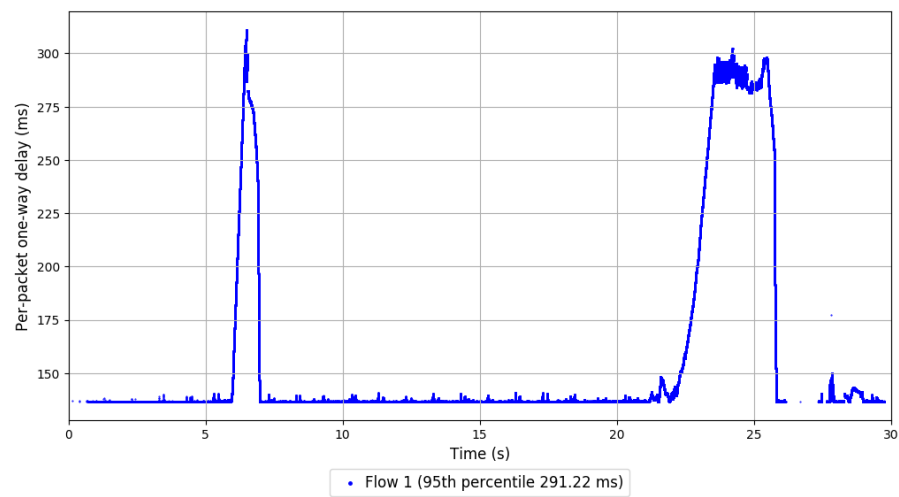
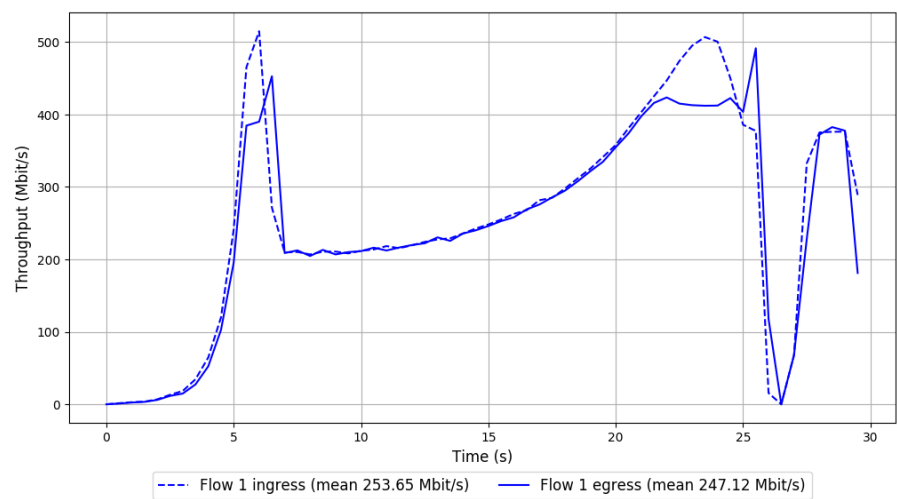
-- Flow 1:

Average throughput: 247.12 Mbit/s

95th percentile per-packet one-way delay: 291.217 ms

Loss rate: 3.46%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-03-27 13:18:40

End at: 2018-03-27 13:19:11

Below is generated by plot.py at 2018-03-27 18:47:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 309.63 Mbit/s

95th percentile per-packet one-way delay: 295.872 ms

Loss rate: 2.55%

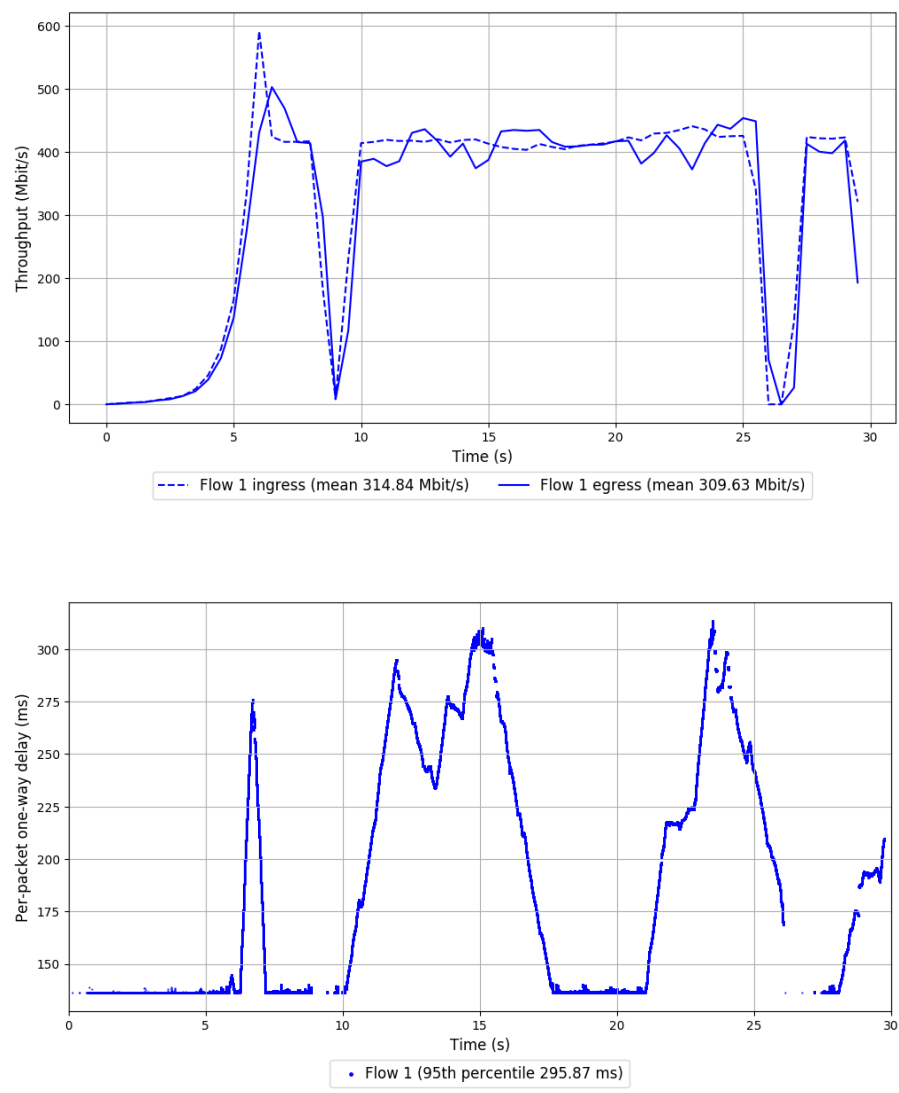
-- Flow 1:

Average throughput: 309.63 Mbit/s

95th percentile per-packet one-way delay: 295.872 ms

Loss rate: 2.55%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-03-27 13:34:37

End at: 2018-03-27 13:35:07

Below is generated by plot.py at 2018-03-27 18:47:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 296.61 Mbit/s

95th percentile per-packet one-way delay: 292.293 ms

Loss rate: 2.99%

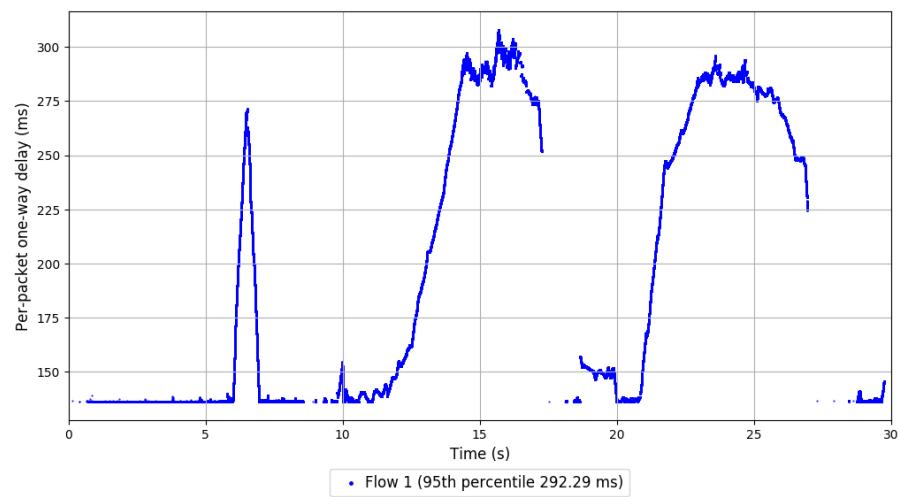
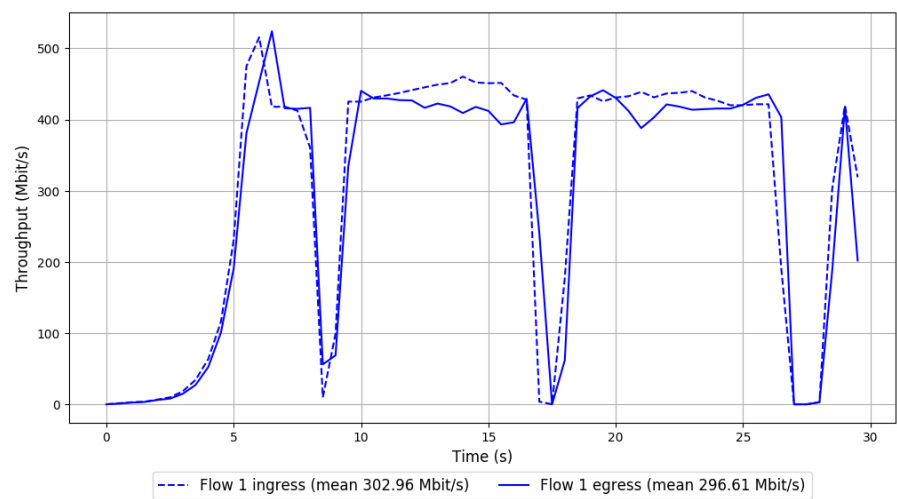
-- Flow 1:

Average throughput: 296.61 Mbit/s

95th percentile per-packet one-way delay: 292.293 ms

Loss rate: 2.99%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-03-27 13:50:48

End at: 2018-03-27 13:51:18

Below is generated by plot.py at 2018-03-27 18:47:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 162.61 Mbit/s

95th percentile per-packet one-way delay: 247.457 ms

Loss rate: 3.90%

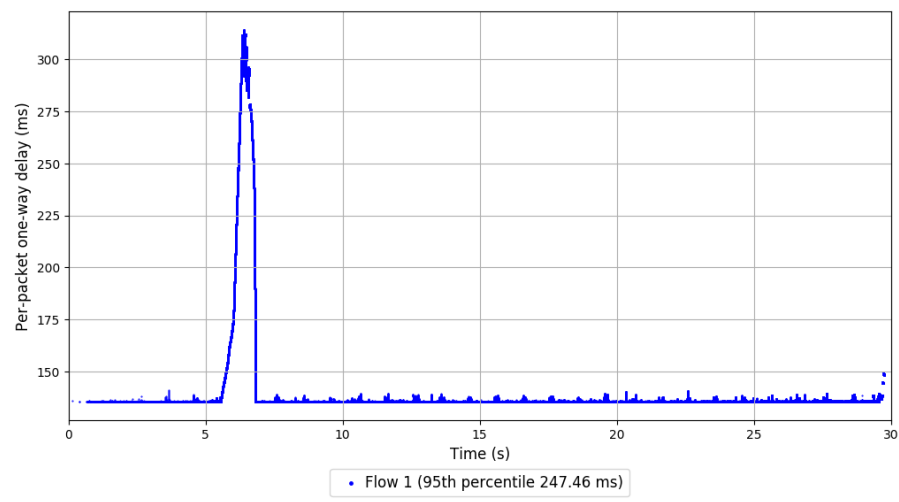
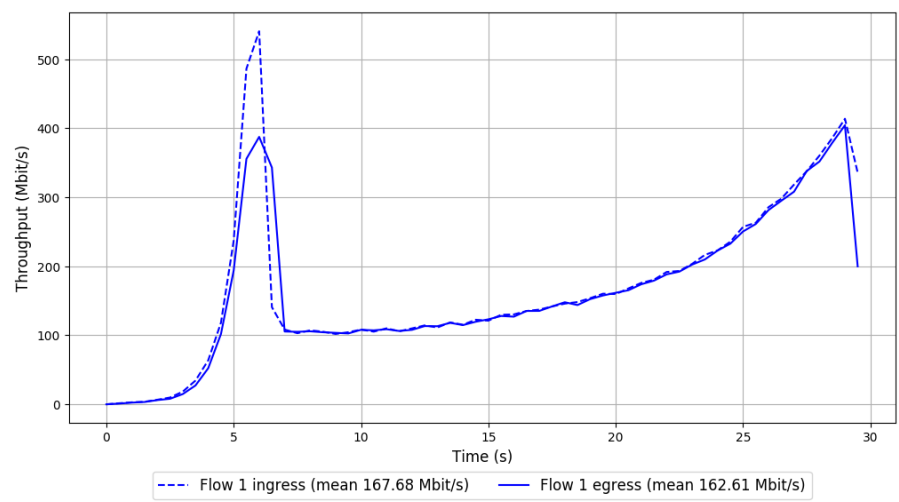
-- Flow 1:

Average throughput: 162.61 Mbit/s

95th percentile per-packet one-way delay: 247.457 ms

Loss rate: 3.90%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-03-27 14:06:07

End at: 2018-03-27 14:06:37

Below is generated by plot.py at 2018-03-27 18:50:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 313.40 Mbit/s

95th percentile per-packet one-way delay: 293.208 ms

Loss rate: 4.09%

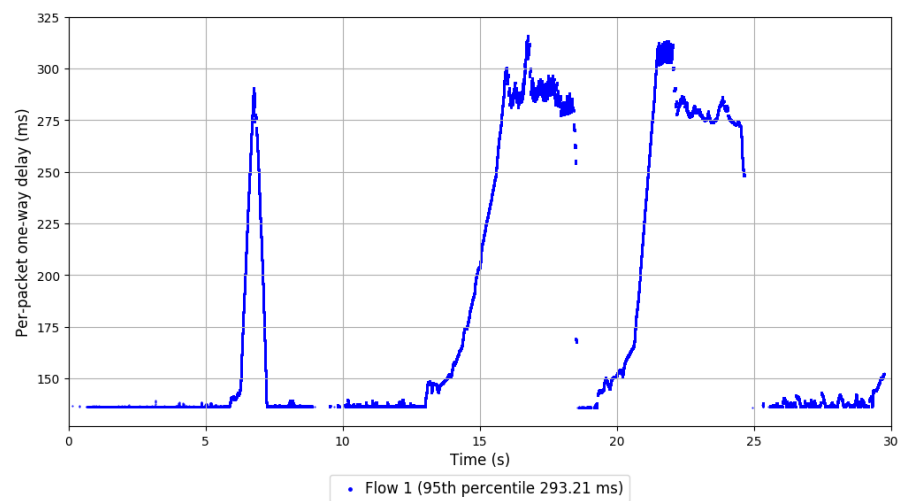
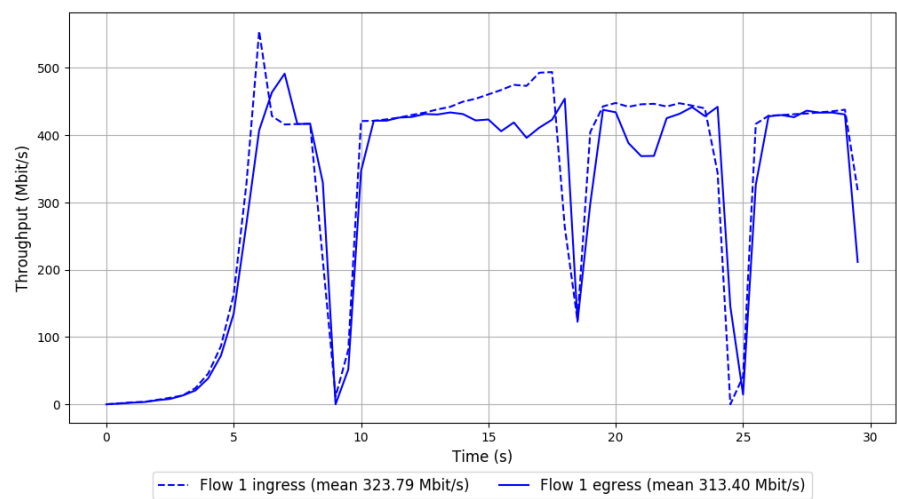
-- Flow 1:

Average throughput: 313.40 Mbit/s

95th percentile per-packet one-way delay: 293.208 ms

Loss rate: 4.09%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-03-27 14:22:04

End at: 2018-03-27 14:22:34

Below is generated by plot.py at 2018-03-27 18:51:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 328.83 Mbit/s

95th percentile per-packet one-way delay: 303.626 ms

Loss rate: 2.83%

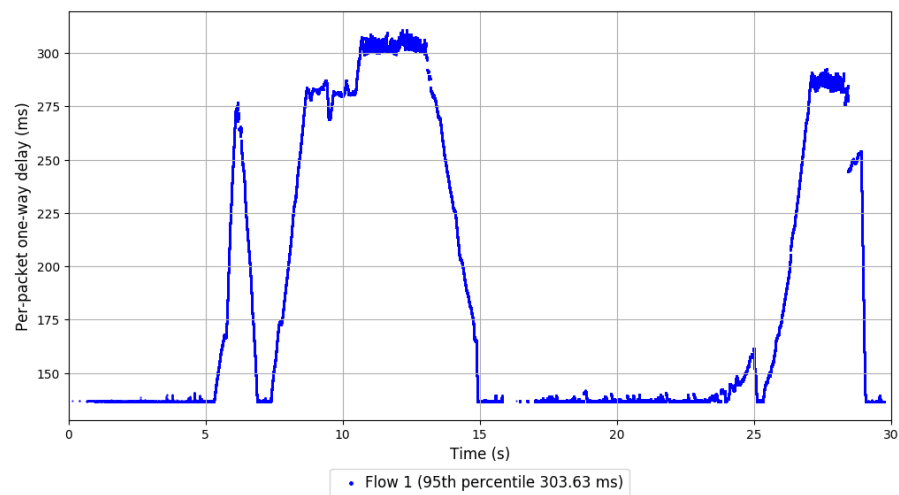
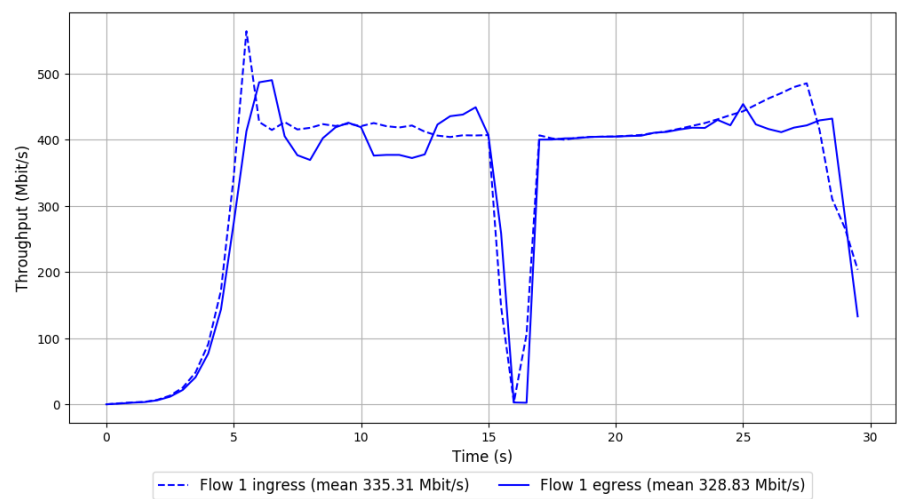
-- Flow 1:

Average throughput: 328.83 Mbit/s

95th percentile per-packet one-way delay: 303.626 ms

Loss rate: 2.83%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-03-27 14:37:57

End at: 2018-03-27 14:38:27

Below is generated by plot.py at 2018-03-27 18:51:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 251.76 Mbit/s

95th percentile per-packet one-way delay: 308.181 ms

Loss rate: 8.49%

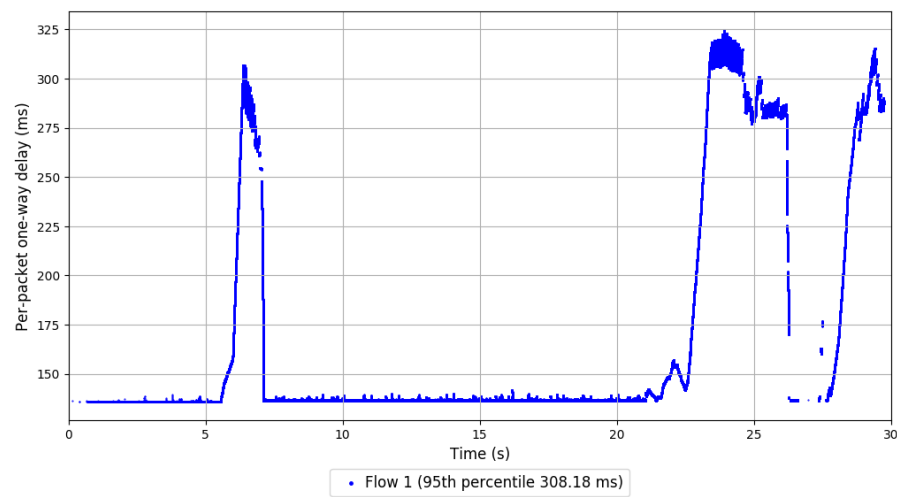
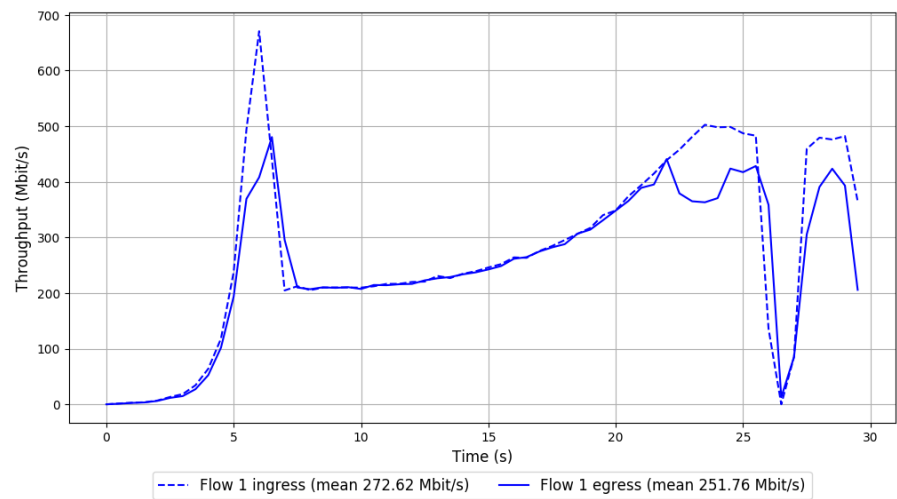
-- Flow 1:

Average throughput: 251.76 Mbit/s

95th percentile per-packet one-way delay: 308.181 ms

Loss rate: 8.49%

Run 10: Report of Vivace-loss — Data Link

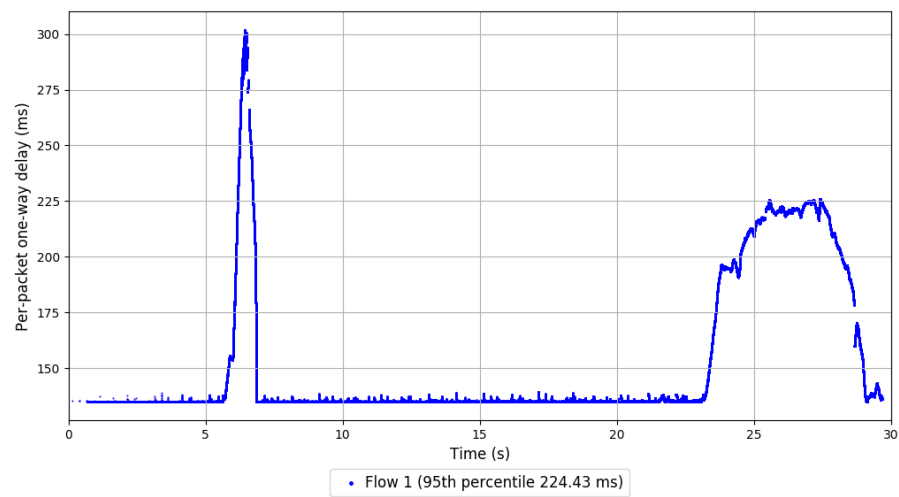
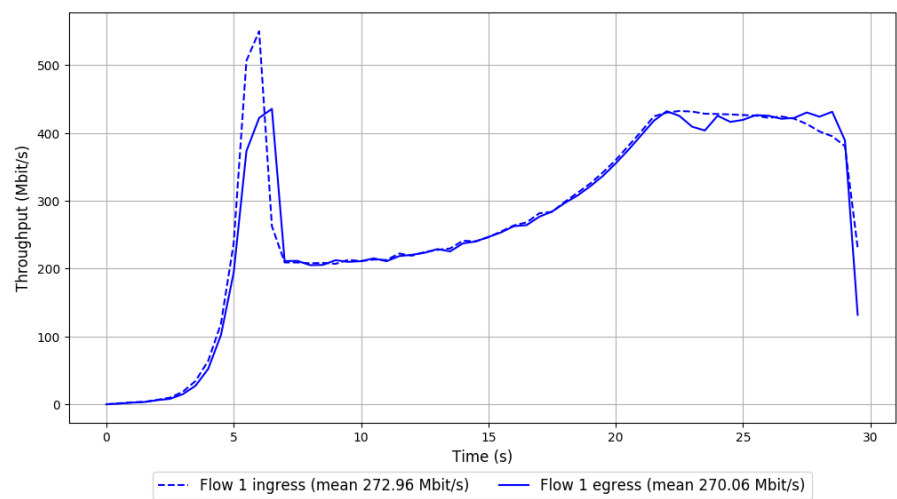


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-03-27 12:11:52
End at: 2018-03-27 12:12:22

# Below is generated by plot.py at 2018-03-27 18:51:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 270.06 Mbit/s
95th percentile per-packet one-way delay: 224.428 ms
Loss rate: 1.96%
-- Flow 1:
Average throughput: 270.06 Mbit/s
95th percentile per-packet one-way delay: 224.428 ms
Loss rate: 1.96%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-03-27 12:27:28

End at: 2018-03-27 12:27:58

Below is generated by plot.py at 2018-03-27 18:51:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.81 Mbit/s

95th percentile per-packet one-way delay: 164.801 ms

Loss rate: 1.52%

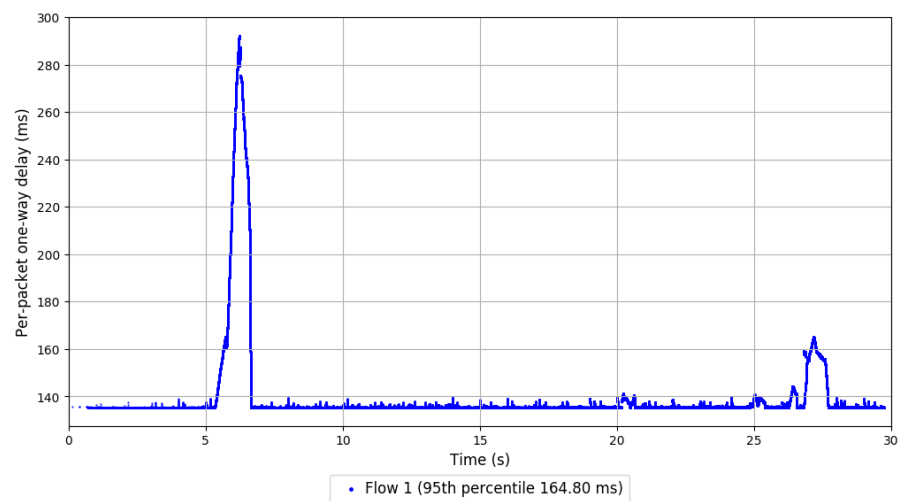
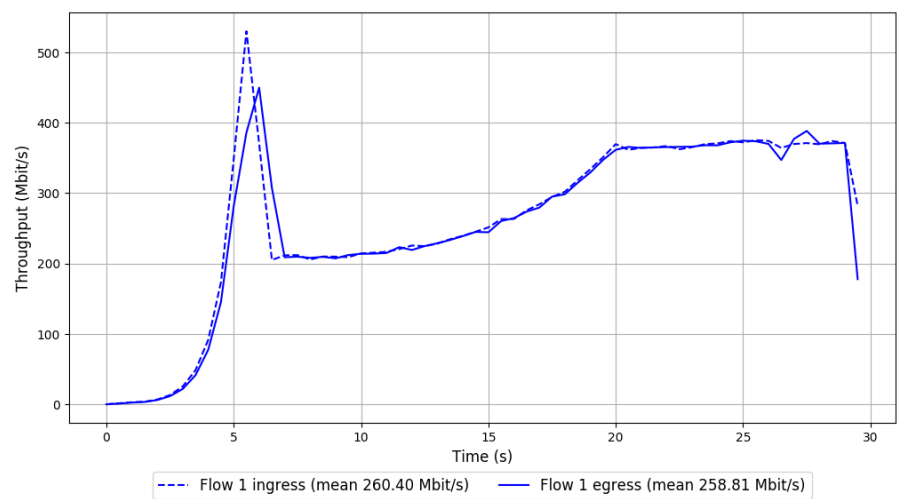
-- Flow 1:

Average throughput: 258.81 Mbit/s

95th percentile per-packet one-way delay: 164.801 ms

Loss rate: 1.52%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-03-27 12:43:04

End at: 2018-03-27 12:43:34

Below is generated by plot.py at 2018-03-27 18:53:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 336.05 Mbit/s

95th percentile per-packet one-way delay: 210.538 ms

Loss rate: 1.31%

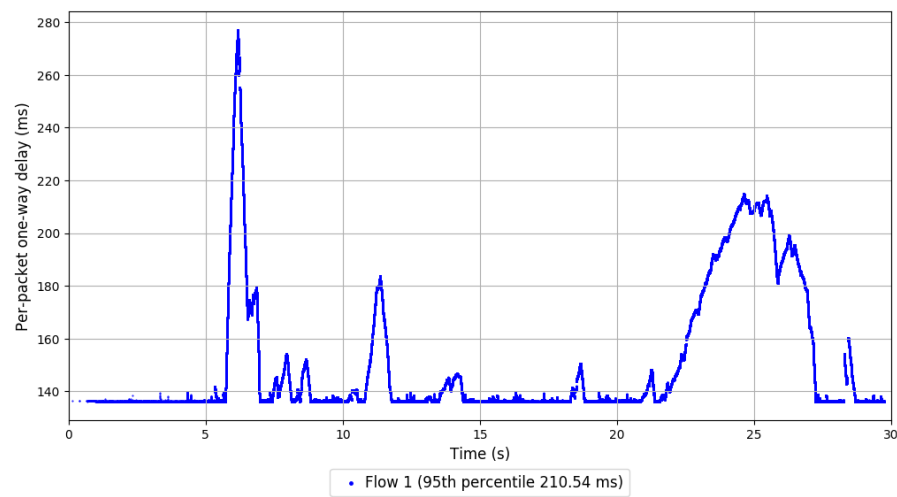
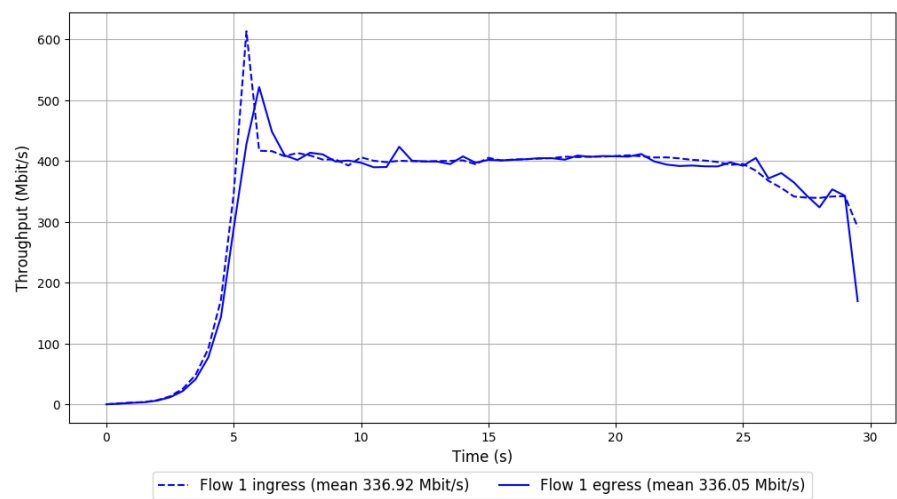
-- Flow 1:

Average throughput: 336.05 Mbit/s

95th percentile per-packet one-way delay: 210.538 ms

Loss rate: 1.31%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-03-27 12:58:46

End at: 2018-03-27 12:59:16

Below is generated by plot.py at 2018-03-27 18:53:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 254.82 Mbit/s

95th percentile per-packet one-way delay: 180.873 ms

Loss rate: 1.52%

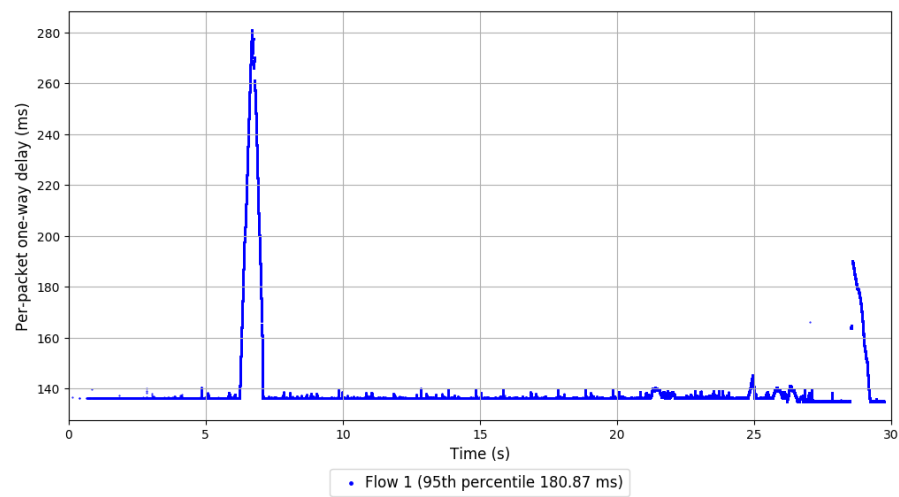
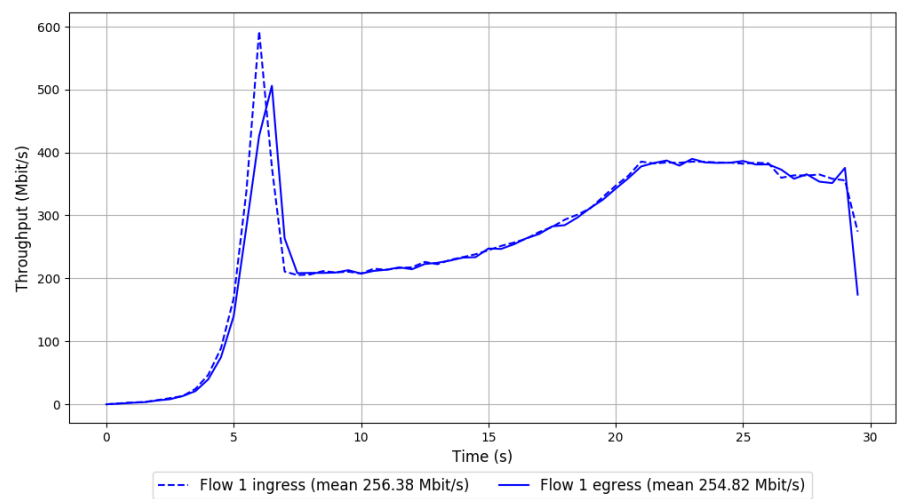
-- Flow 1:

Average throughput: 254.82 Mbit/s

95th percentile per-packet one-way delay: 180.873 ms

Loss rate: 1.52%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-03-27 13:14:23

End at: 2018-03-27 13:14:53

Below is generated by plot.py at 2018-03-27 18:53:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 251.95 Mbit/s

95th percentile per-packet one-way delay: 186.228 ms

Loss rate: 1.69%

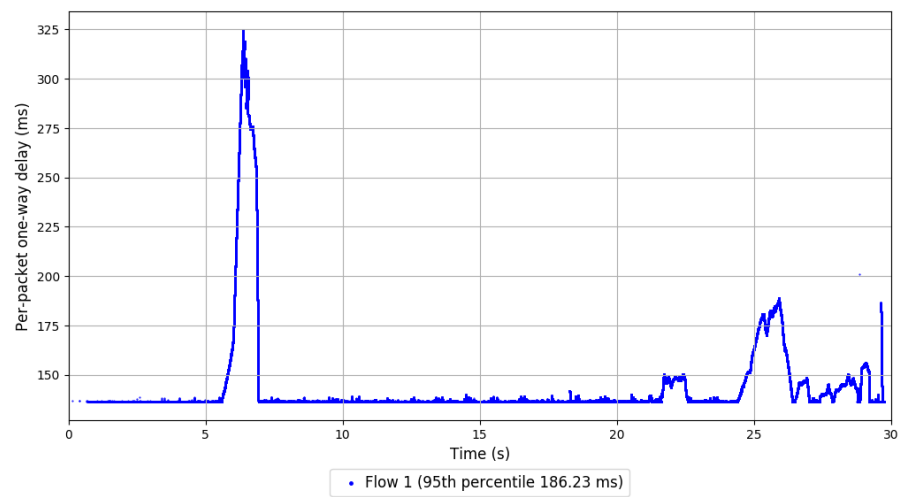
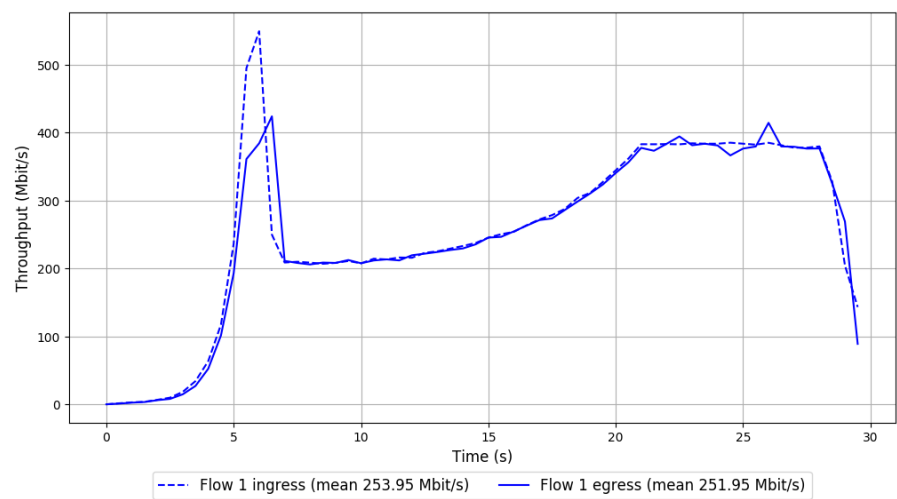
-- Flow 1:

Average throughput: 251.95 Mbit/s

95th percentile per-packet one-way delay: 186.228 ms

Loss rate: 1.69%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-03-27 13:30:26

End at: 2018-03-27 13:30:56

Below is generated by plot.py at 2018-03-27 18:53:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.53 Mbit/s

95th percentile per-packet one-way delay: 236.756 ms

Loss rate: 3.33%

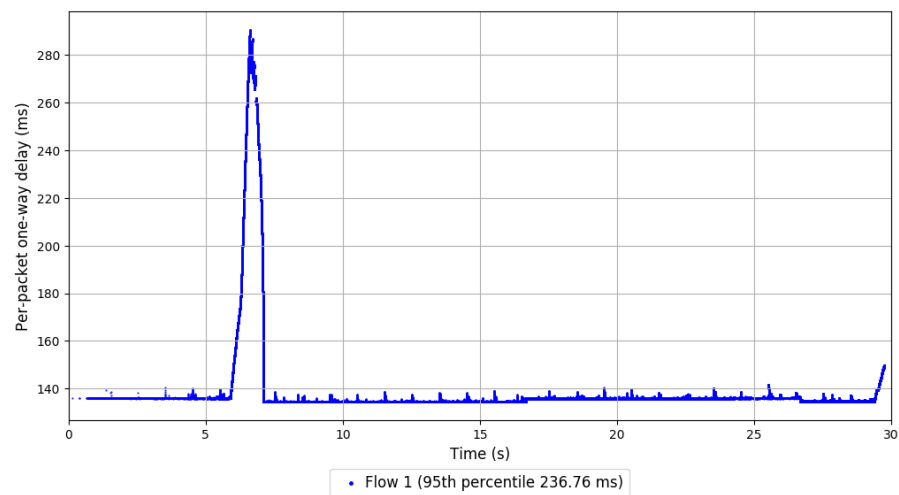
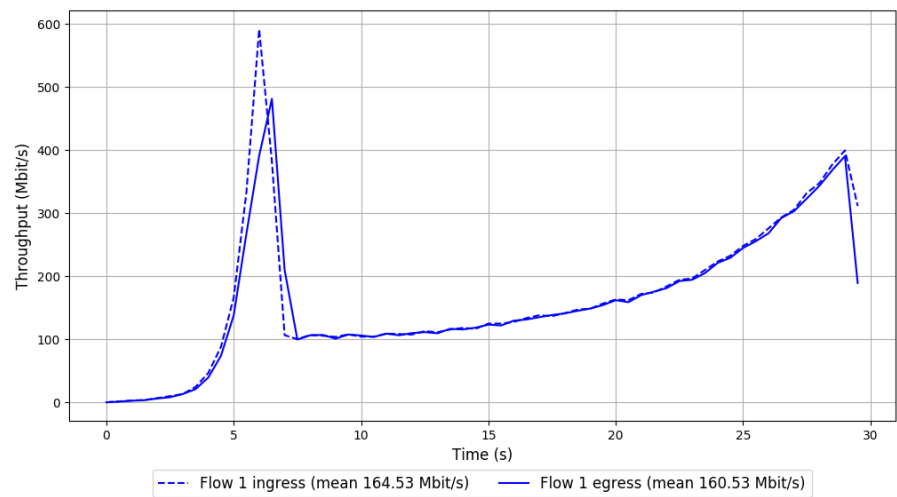
-- Flow 1:

Average throughput: 160.53 Mbit/s

95th percentile per-packet one-way delay: 236.756 ms

Loss rate: 3.33%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-03-27 13:46:21

End at: 2018-03-27 13:46:51

Below is generated by plot.py at 2018-03-27 18:54:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 355.39 Mbit/s

95th percentile per-packet one-way delay: 158.631 ms

Loss rate: 1.19%

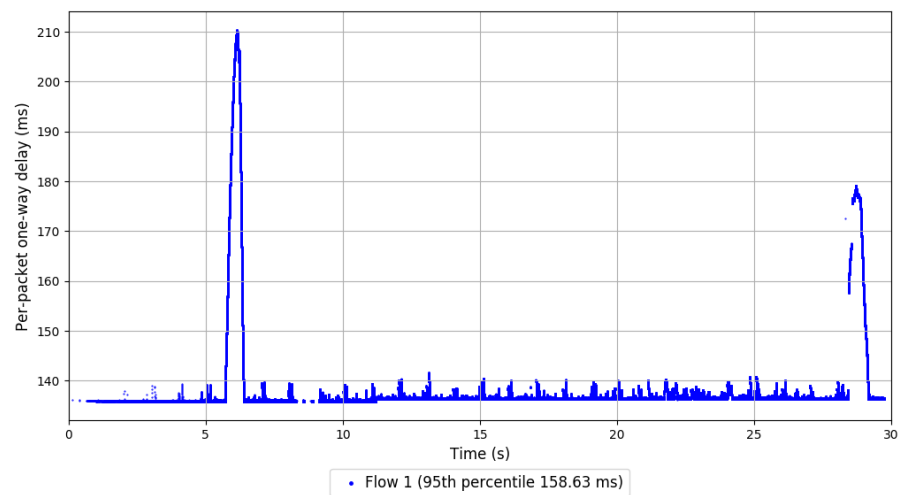
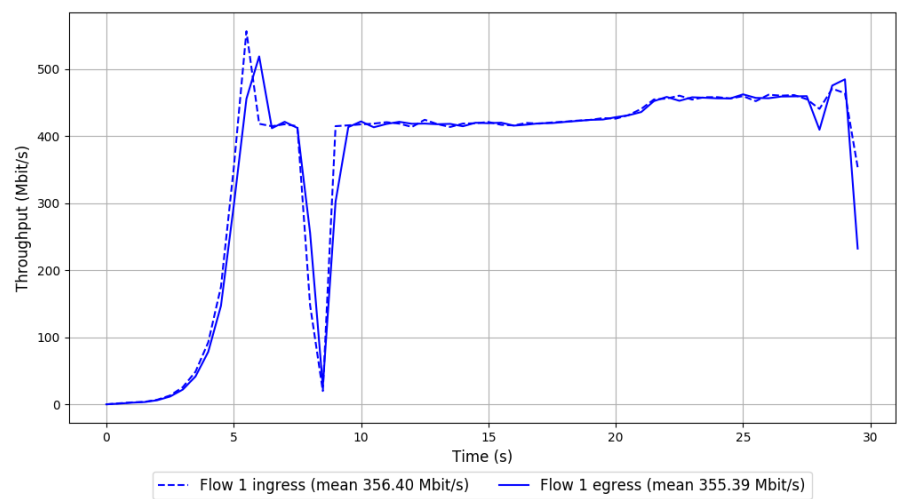
-- Flow 1:

Average throughput: 355.39 Mbit/s

95th percentile per-packet one-way delay: 158.631 ms

Loss rate: 1.19%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-03-27 14:01:55

End at: 2018-03-27 14:02:25

Below is generated by plot.py at 2018-03-27 18:54:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 159.08 Mbit/s

95th percentile per-packet one-way delay: 221.852 ms

Loss rate: 2.64%

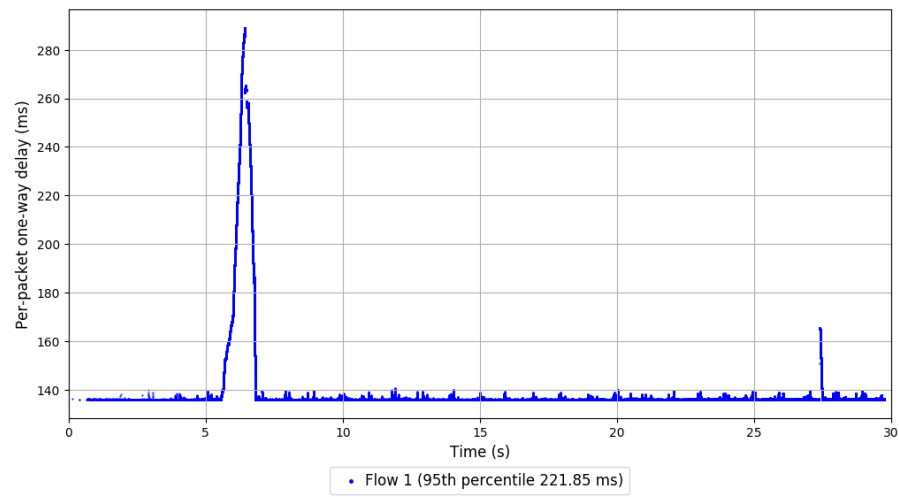
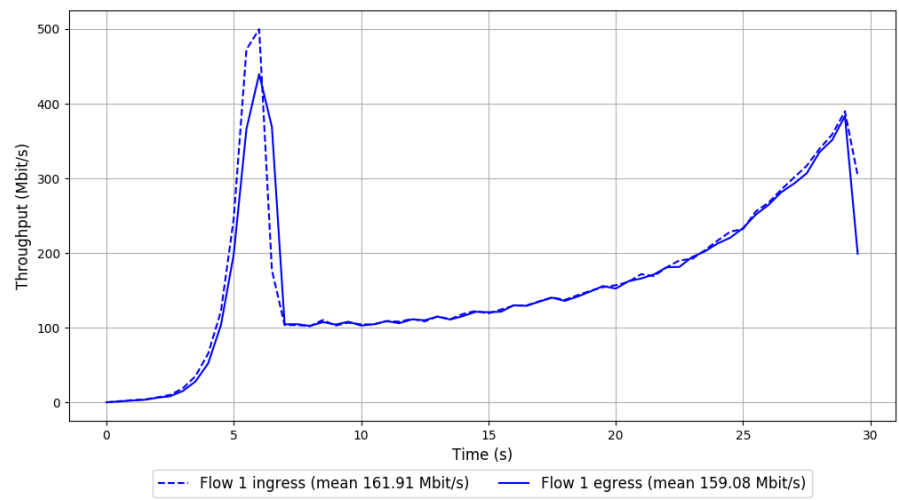
-- Flow 1:

Average throughput: 159.08 Mbit/s

95th percentile per-packet one-way delay: 221.852 ms

Loss rate: 2.64%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-03-27 14:17:48

End at: 2018-03-27 14:18:18

Below is generated by plot.py at 2018-03-27 18:54:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 249.88 Mbit/s

95th percentile per-packet one-way delay: 148.385 ms

Loss rate: 0.73%

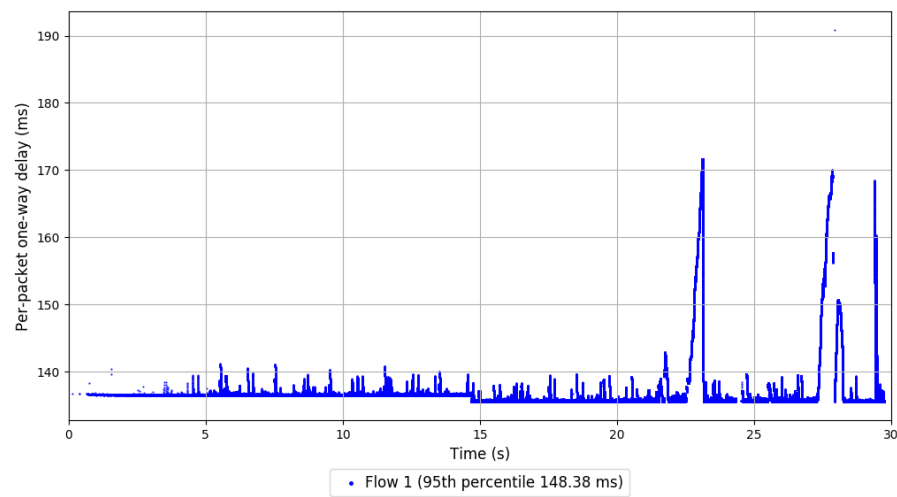
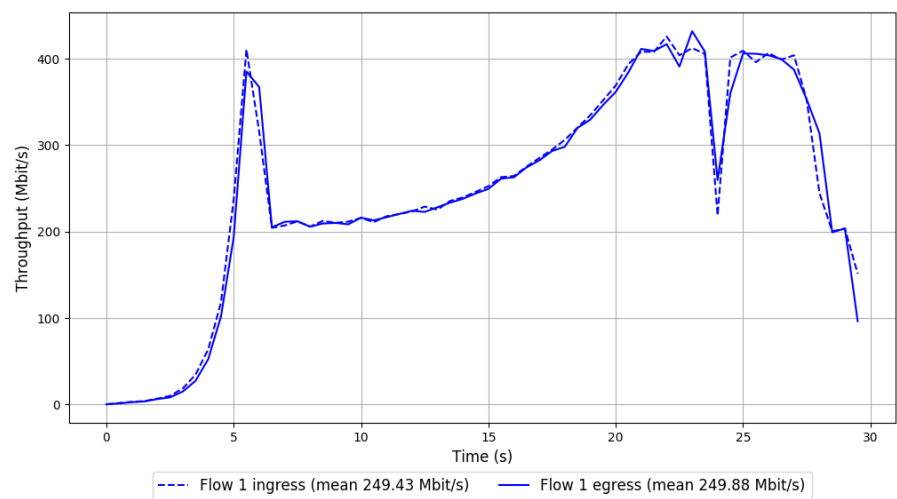
-- Flow 1:

Average throughput: 249.88 Mbit/s

95th percentile per-packet one-way delay: 148.385 ms

Loss rate: 0.73%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-03-27 14:33:47

End at: 2018-03-27 14:34:17

Below is generated by plot.py at 2018-03-27 18:54:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.75 Mbit/s

95th percentile per-packet one-way delay: 259.046 ms

Loss rate: 3.84%

-- Flow 1:

Average throughput: 158.75 Mbit/s

95th percentile per-packet one-way delay: 259.046 ms

Loss rate: 3.84%

Run 10: Report of Vivace-LTE — Data Link

