

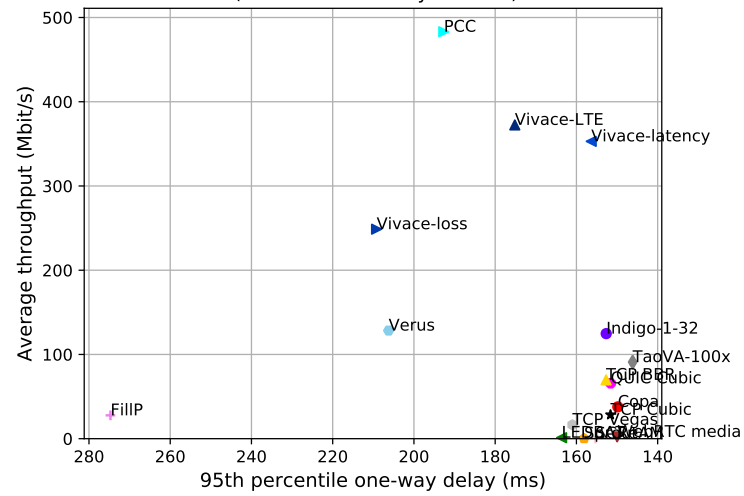
Pantheon Report

Generated at 2018-01-31 06:27:05 (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**).

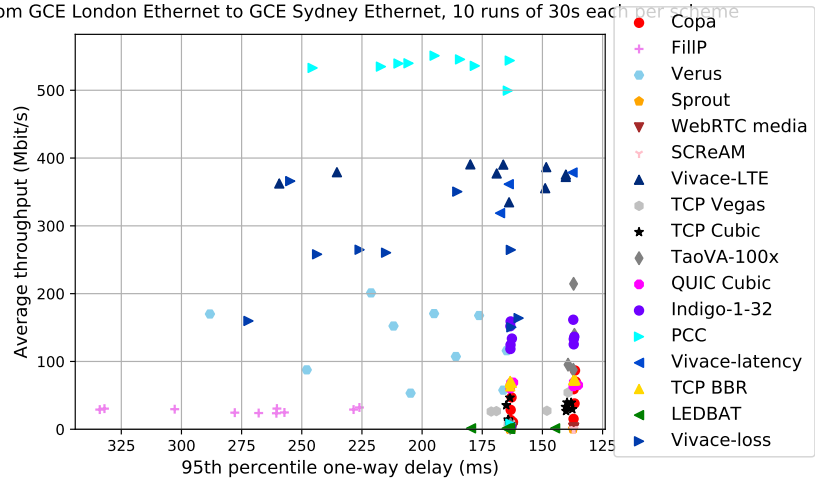
Git summary:

```
branch: master @ 70217998b3c9a7166a95460a70c0854d1326e100
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ fb9c9ab842e5614ad52911a76fb9bd1c1b0dca86
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ 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 @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



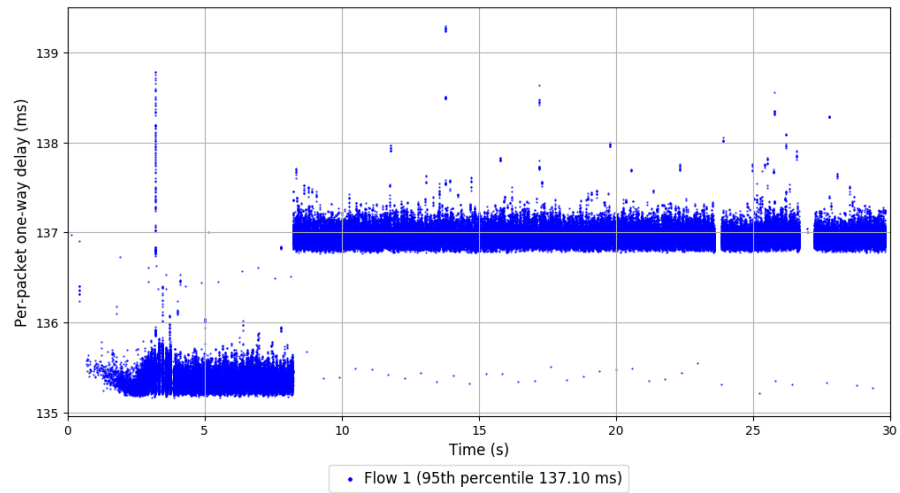
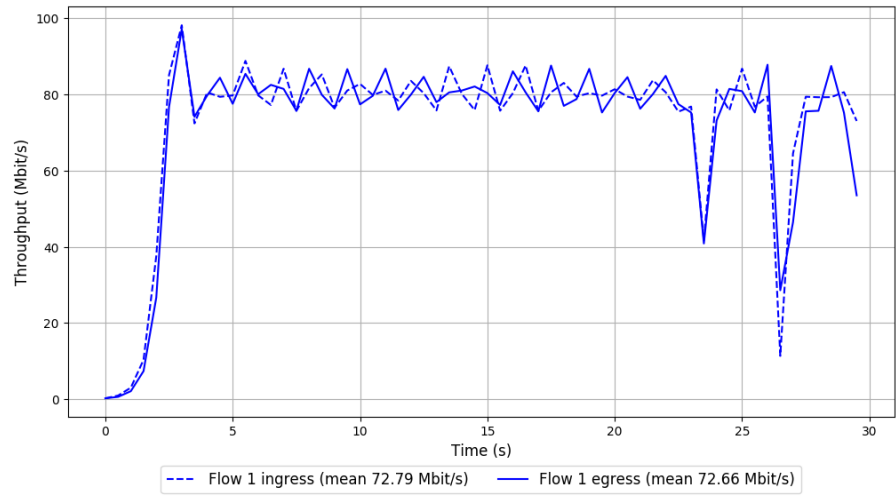
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	69.81	152.70	1.36
TCP Cubic	10	28.40	151.61	2.42
LEDBAT	10	1.16	163.66	1.36
PCC	10	483.09	192.64	2.33
QUIC Cubic	7	65.78	151.58	1.19
SCReAM	10	0.20	155.31	0.83
WebRTC media	10	2.10	149.97	0.96
Sprout	10	0.29	158.11	0.67
TaoVA-100x	6	90.93	146.16	2.04
TCP Vegas	10	16.45	160.99	1.87
Verus	10	128.34	206.24	3.09
Copa	10	37.78	149.81	1.31
FillP	10	27.74	274.71	6.10
Indigo-1-32	10	124.72	152.66	1.41
Vivace-latency	3	352.96	156.37	1.30
Vivace-loss	9	248.71	209.19	2.53
Vivace-LTE	10	372.51	175.17	1.22

```
Run 1: Statistics of TCP BBR

Start at: 2018-01-31 00:43:06
End at: 2018-01-31 00:43:36

# Below is generated by plot.py at 2018-01-31 05:49:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.66 Mbit/s
95th percentile per-packet one-way delay: 137.103 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 72.66 Mbit/s
95th percentile per-packet one-way delay: 137.103 ms
Loss rate: 1.08%
```


Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-31 00:58:02

End at: 2018-01-31 00:58:32

Below is generated by plot.py at 2018-01-31 05:49:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.52 Mbit/s

95th percentile per-packet one-way delay: 137.119 ms

Loss rate: 1.34%

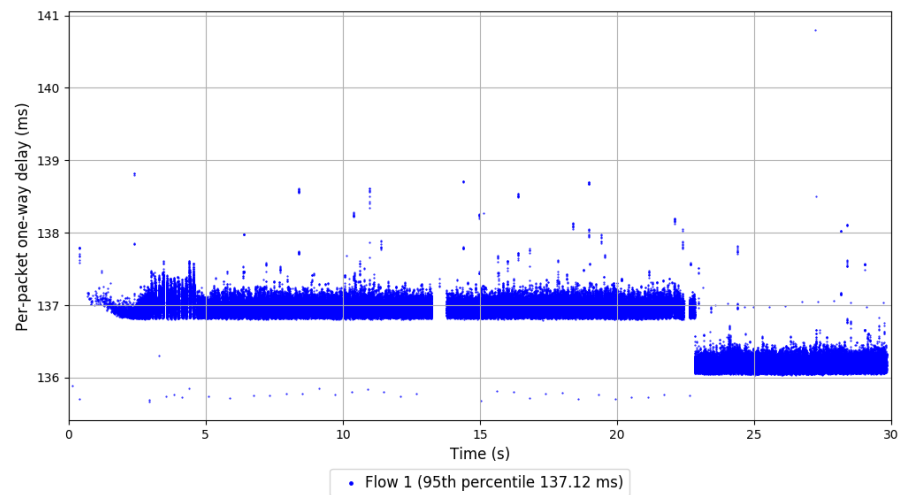
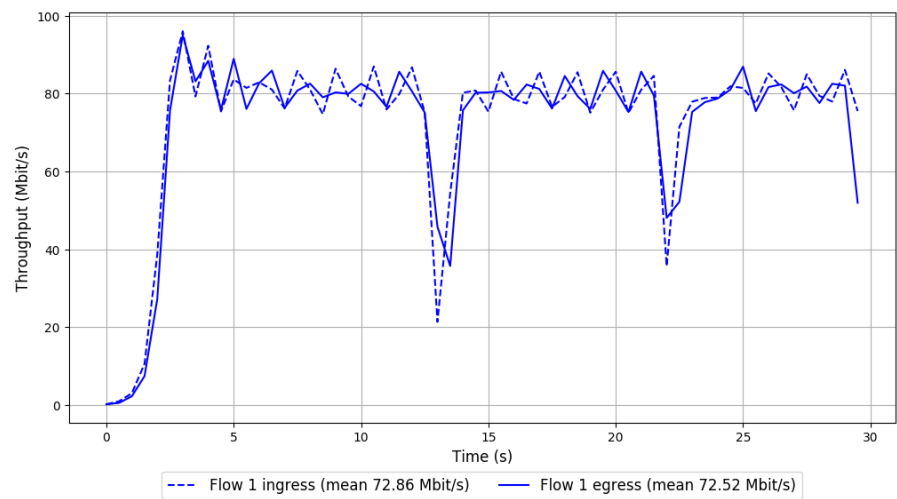
-- Flow 1:

Average throughput: 72.52 Mbit/s

95th percentile per-packet one-way delay: 137.119 ms

Loss rate: 1.34%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-31 01:13:23

End at: 2018-01-31 01:13:53

Below is generated by plot.py at 2018-01-31 05:49:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.71 Mbit/s

95th percentile per-packet one-way delay: 136.848 ms

Loss rate: 1.56%

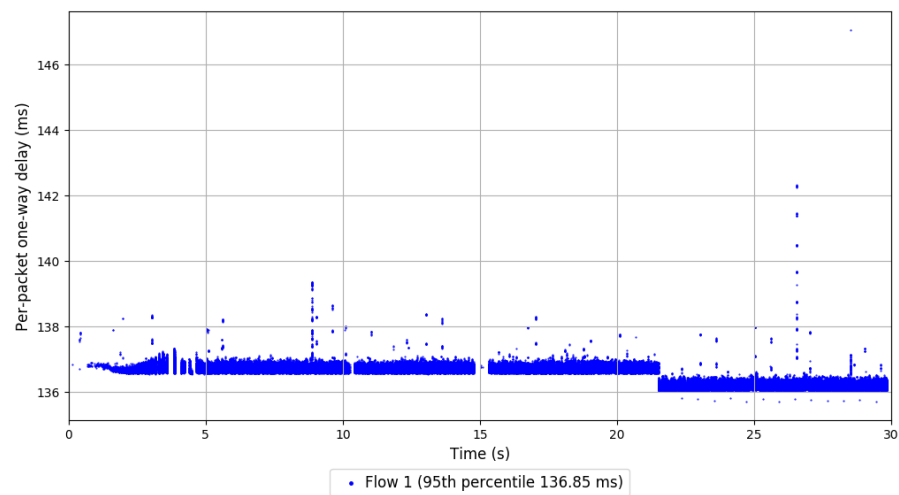
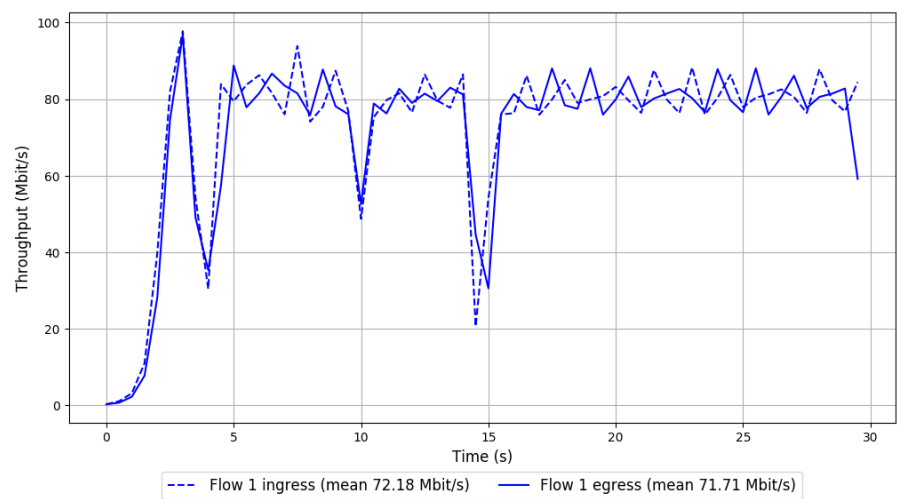
-- Flow 1:

Average throughput: 71.71 Mbit/s

95th percentile per-packet one-way delay: 136.848 ms

Loss rate: 1.56%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-31 01:28:10

End at: 2018-01-31 01:28:40

Below is generated by plot.py at 2018-01-31 05:49:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.29 Mbit/s

95th percentile per-packet one-way delay: 163.398 ms

Loss rate: 1.11%

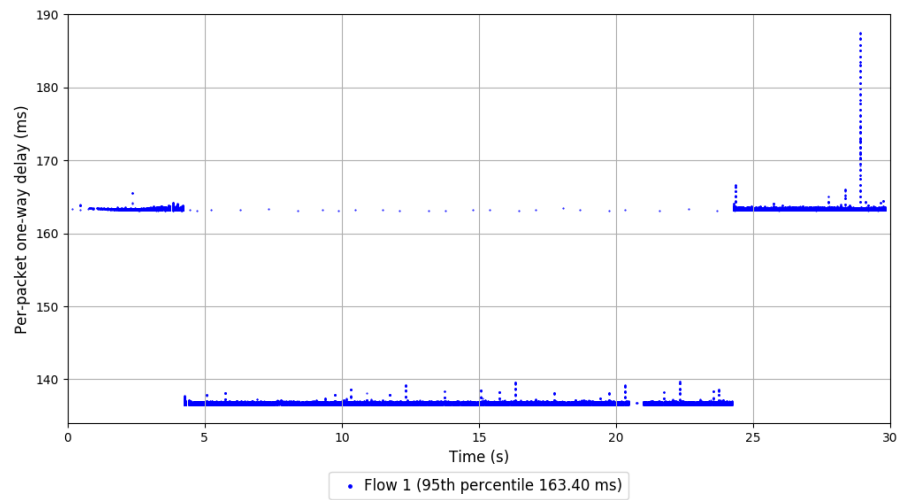
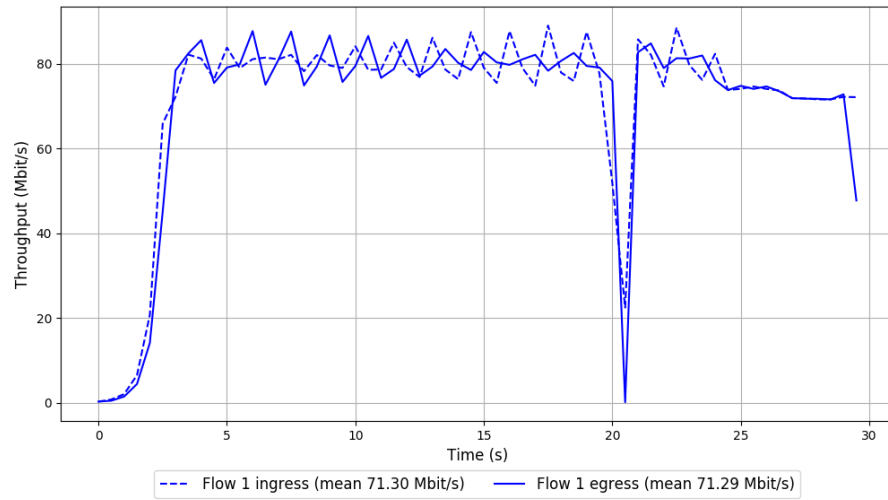
-- Flow 1:

Average throughput: 71.29 Mbit/s

95th percentile per-packet one-way delay: 163.398 ms

Loss rate: 1.11%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-31 01:42:27

End at: 2018-01-31 01:42:57

Below is generated by plot.py at 2018-01-31 05:49:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.15 Mbit/s

95th percentile per-packet one-way delay: 163.439 ms

Loss rate: 1.15%

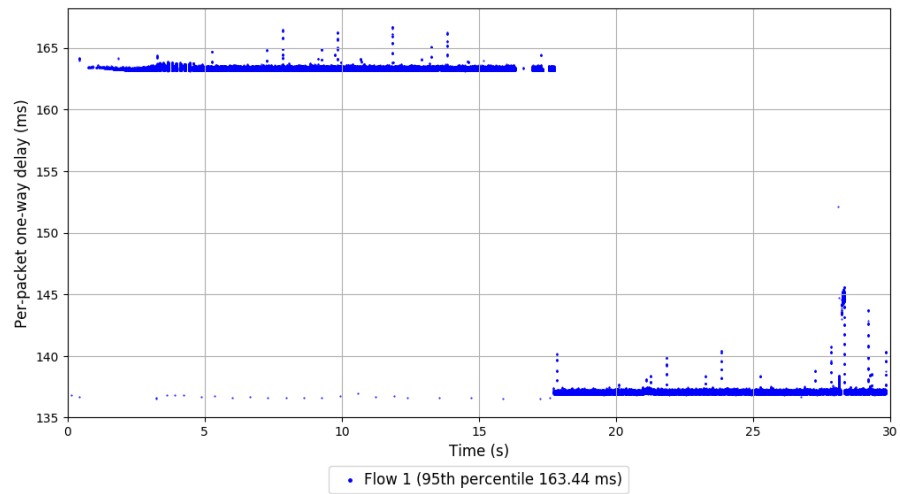
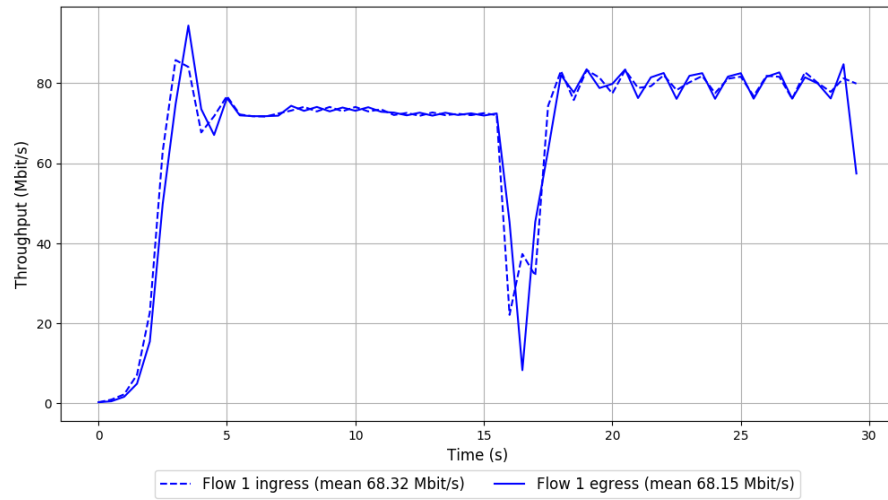
-- Flow 1:

Average throughput: 68.15 Mbit/s

95th percentile per-packet one-way delay: 163.439 ms

Loss rate: 1.15%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-31 01:57:06

End at: 2018-01-31 01:57:36

Below is generated by plot.py at 2018-01-31 05:49:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.17 Mbit/s

95th percentile per-packet one-way delay: 163.394 ms

Loss rate: 1.27%

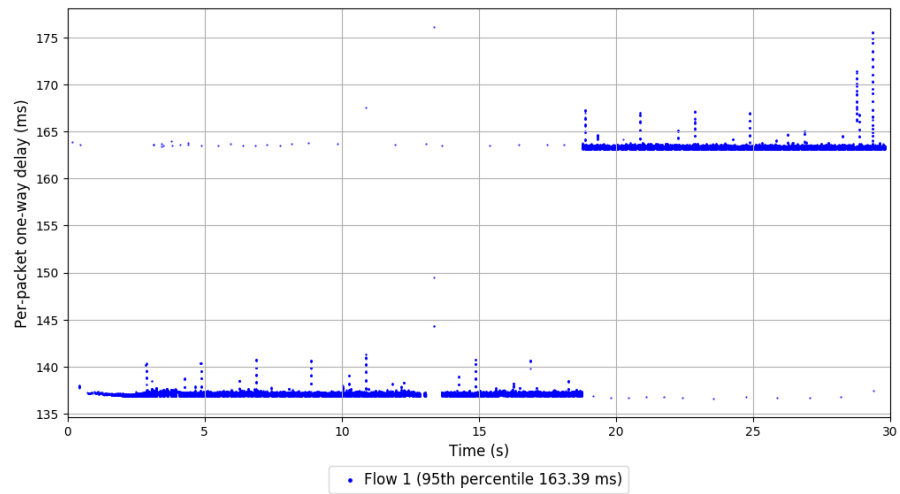
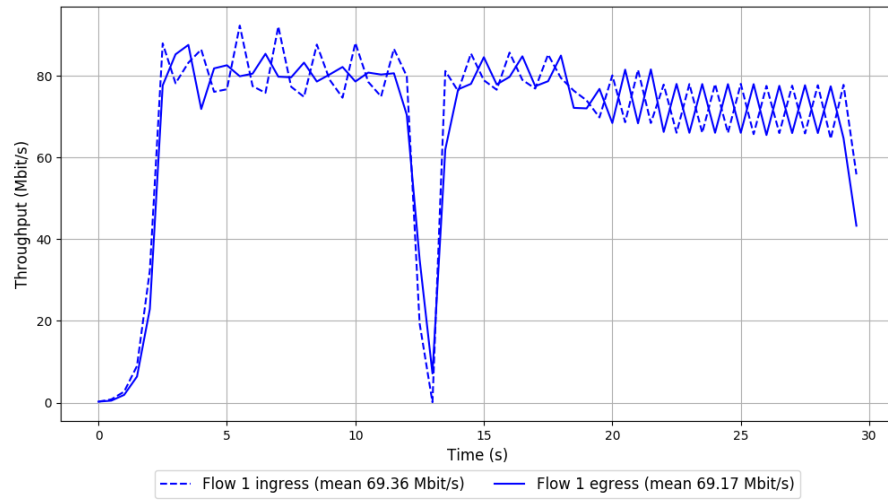
-- Flow 1:

Average throughput: 69.17 Mbit/s

95th percentile per-packet one-way delay: 163.394 ms

Loss rate: 1.27%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-31 02:12:46

End at: 2018-01-31 02:13:16

Below is generated by plot.py at 2018-01-31 05:49:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.22 Mbit/s

95th percentile per-packet one-way delay: 136.228 ms

Loss rate: 1.65%

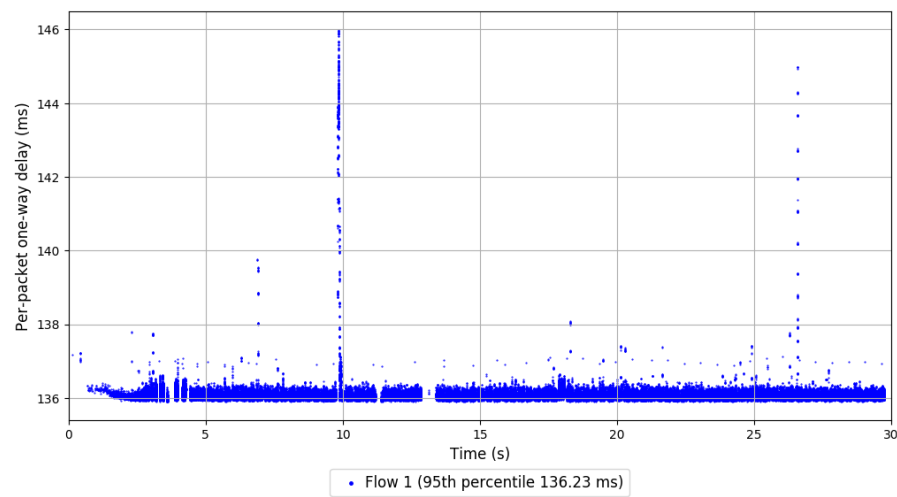
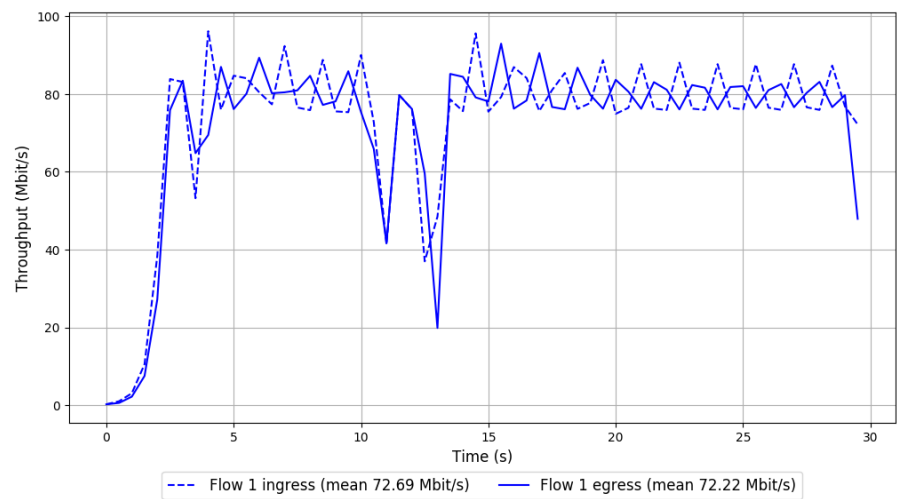
-- Flow 1:

Average throughput: 72.22 Mbit/s

95th percentile per-packet one-way delay: 136.228 ms

Loss rate: 1.65%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-31 02:28:20

End at: 2018-01-31 02:28:50

Below is generated by plot.py at 2018-01-31 05:49:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.36 Mbit/s

95th percentile per-packet one-way delay: 163.386 ms

Loss rate: 1.48%

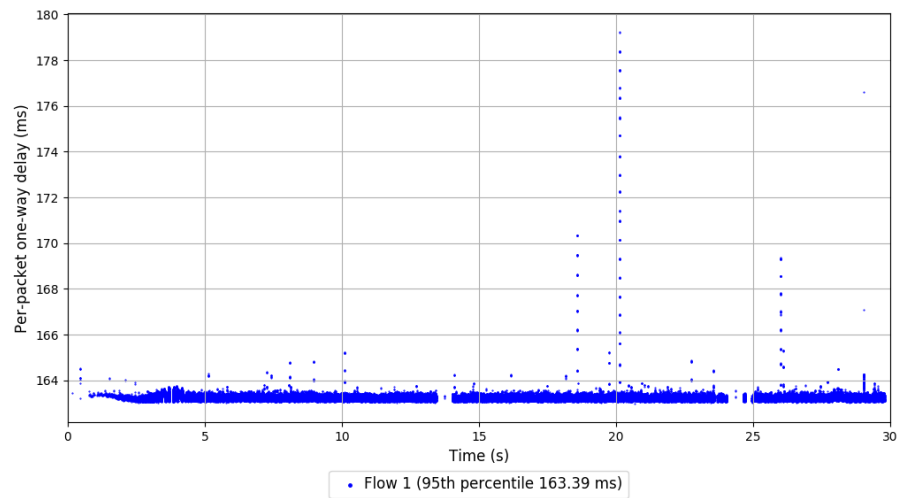
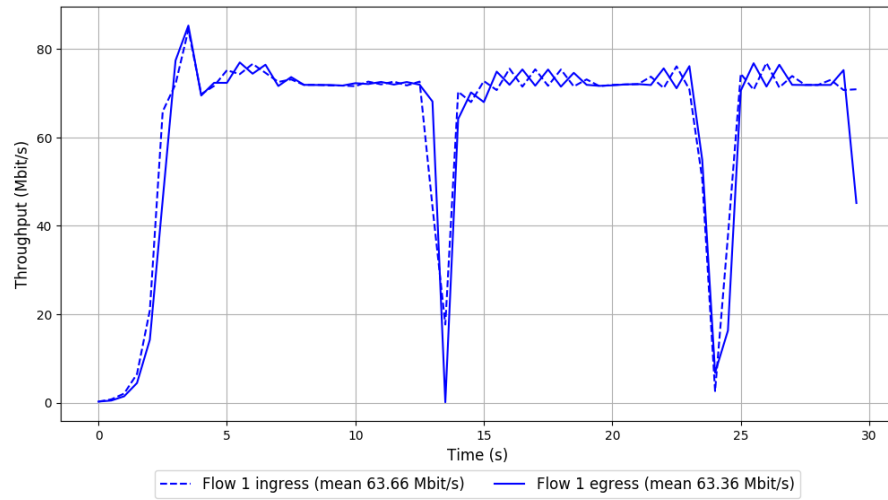
-- Flow 1:

Average throughput: 63.36 Mbit/s

95th percentile per-packet one-way delay: 163.386 ms

Loss rate: 1.48%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-31 02:43:33

End at: 2018-01-31 02:44:03

Below is generated by plot.py at 2018-01-31 05:50:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.57 Mbit/s

95th percentile per-packet one-way delay: 163.320 ms

Loss rate: 1.02%

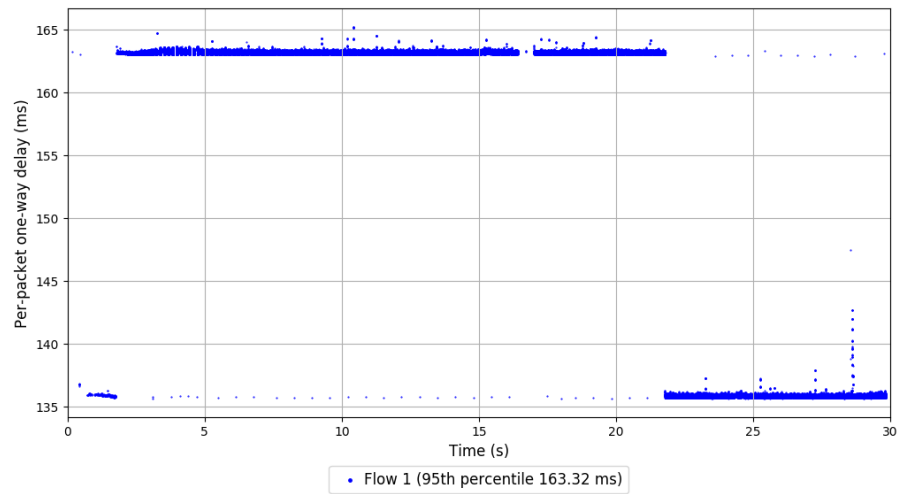
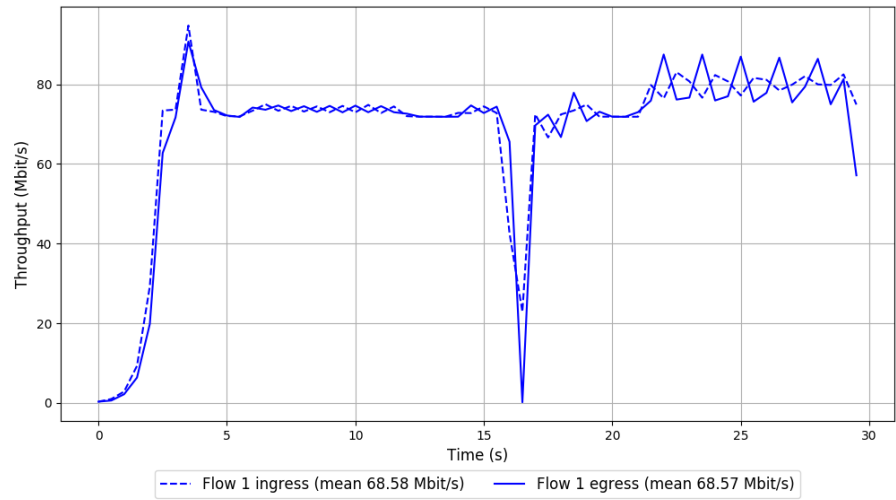
-- Flow 1:

Average throughput: 68.57 Mbit/s

95th percentile per-packet one-way delay: 163.320 ms

Loss rate: 1.02%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-31 02:58:32

End at: 2018-01-31 02:59:02

Below is generated by plot.py at 2018-01-31 05:50:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.46 Mbit/s

95th percentile per-packet one-way delay: 162.737 ms

Loss rate: 1.92%

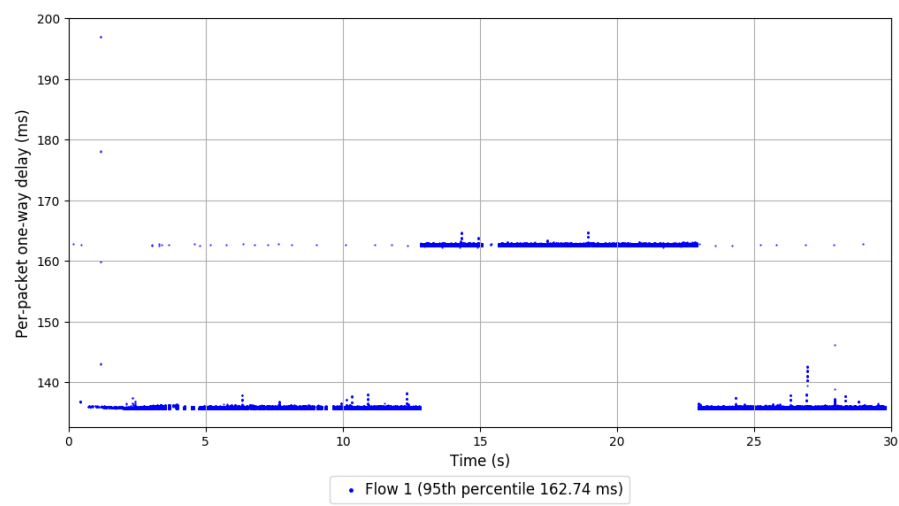
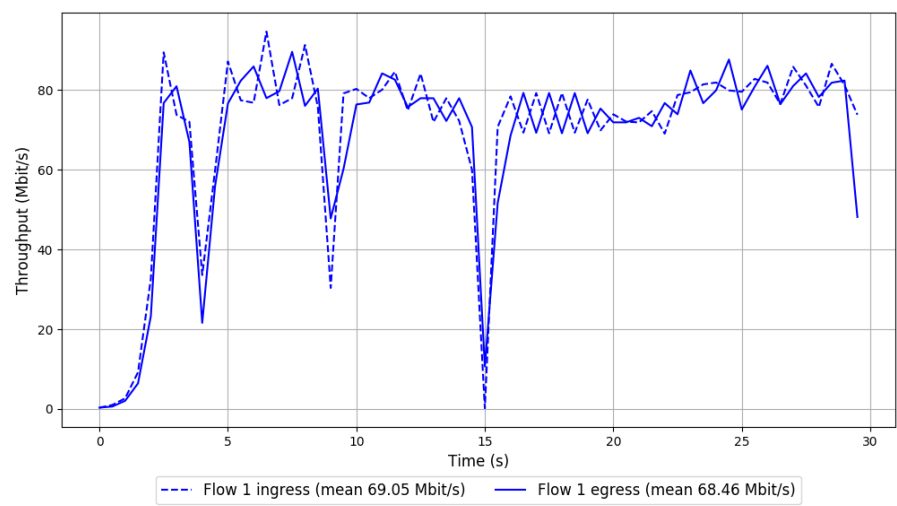
-- Flow 1:

Average throughput: 68.46 Mbit/s

95th percentile per-packet one-way delay: 162.737 ms

Loss rate: 1.92%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-31 00:50:54

End at: 2018-01-31 00:51:24

Below is generated by plot.py at 2018-01-31 05:50:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.94 Mbit/s

95th percentile per-packet one-way delay: 140.340 ms

Loss rate: 2.64%

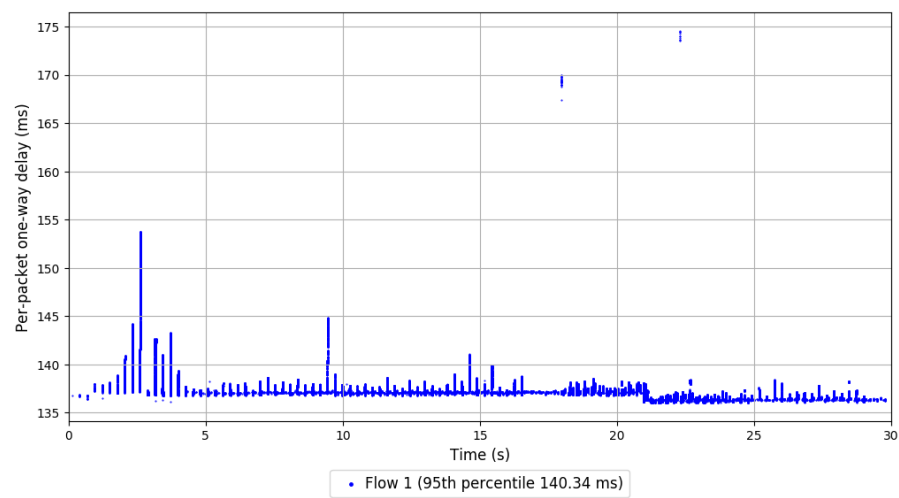
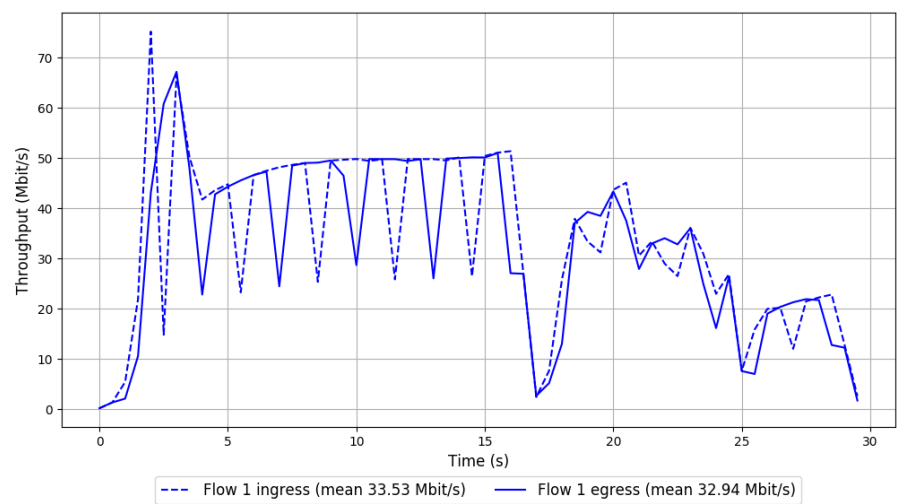
-- Flow 1:

Average throughput: 32.94 Mbit/s

95th percentile per-packet one-way delay: 140.340 ms

Loss rate: 2.64%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-31 01:06:05

End at: 2018-01-31 01:06:35

Below is generated by plot.py at 2018-01-31 05:50:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.99 Mbit/s

95th percentile per-packet one-way delay: 140.180 ms

Loss rate: 1.35%

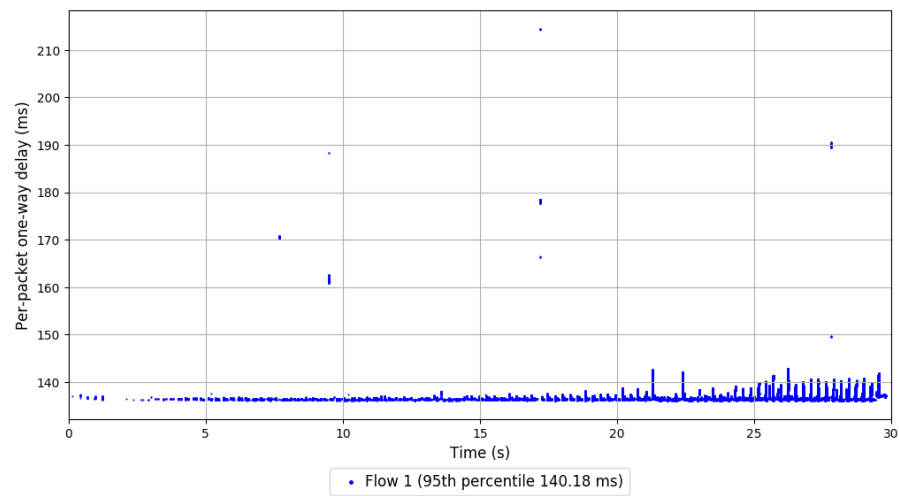
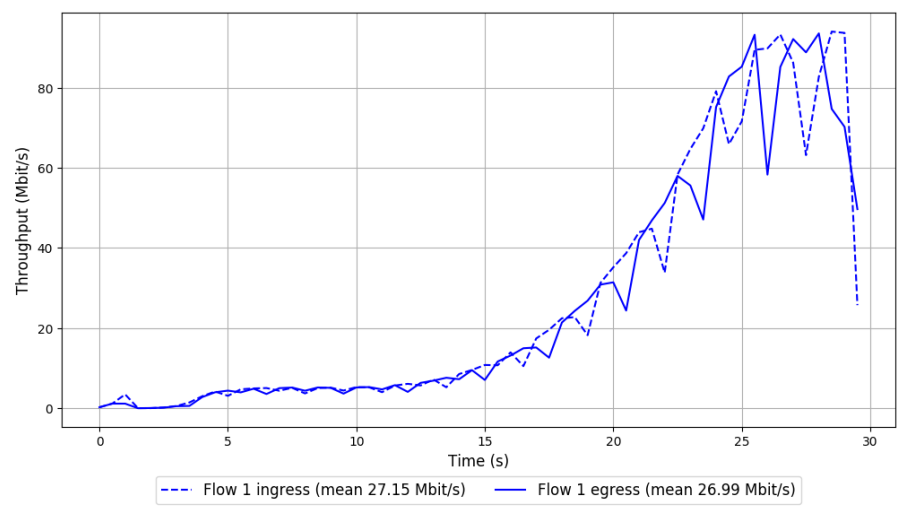
-- Flow 1:

Average throughput: 26.99 Mbit/s

95th percentile per-packet one-way delay: 140.180 ms

Loss rate: 1.35%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-31 01:21:01

End at: 2018-01-31 01:21:31

Below is generated by plot.py at 2018-01-31 05:50:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.21 Mbit/s

95th percentile per-packet one-way delay: 138.052 ms

Loss rate: 2.34%

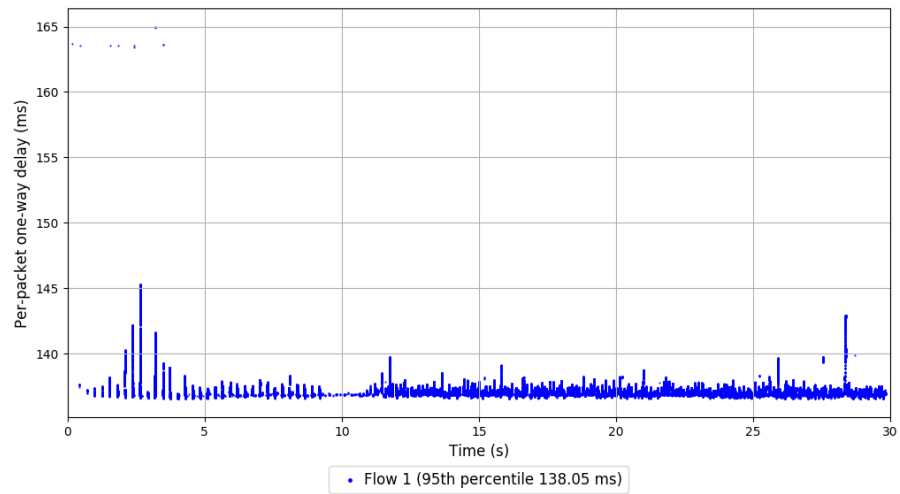
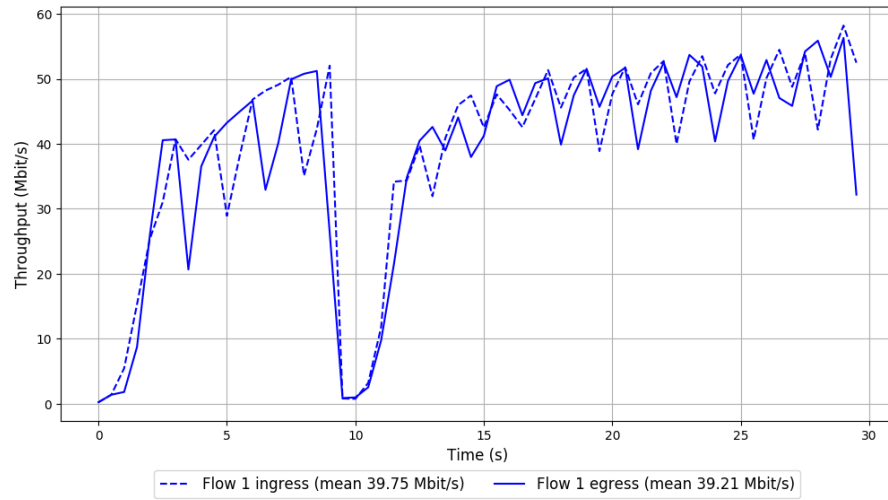
-- Flow 1:

Average throughput: 39.21 Mbit/s

95th percentile per-packet one-way delay: 138.052 ms

Loss rate: 2.34%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-31 01:35:26

End at: 2018-01-31 01:35:56

Below is generated by plot.py at 2018-01-31 05:50:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.85 Mbit/s

95th percentile per-packet one-way delay: 164.076 ms

Loss rate: 2.79%

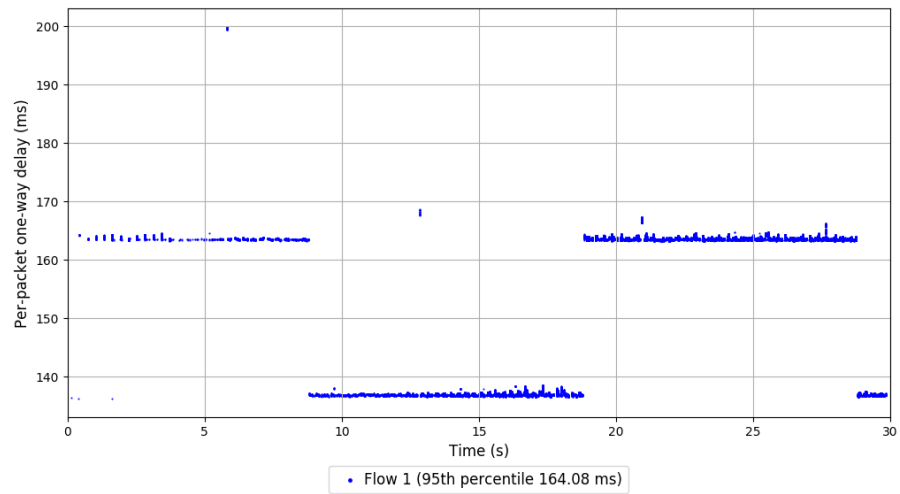
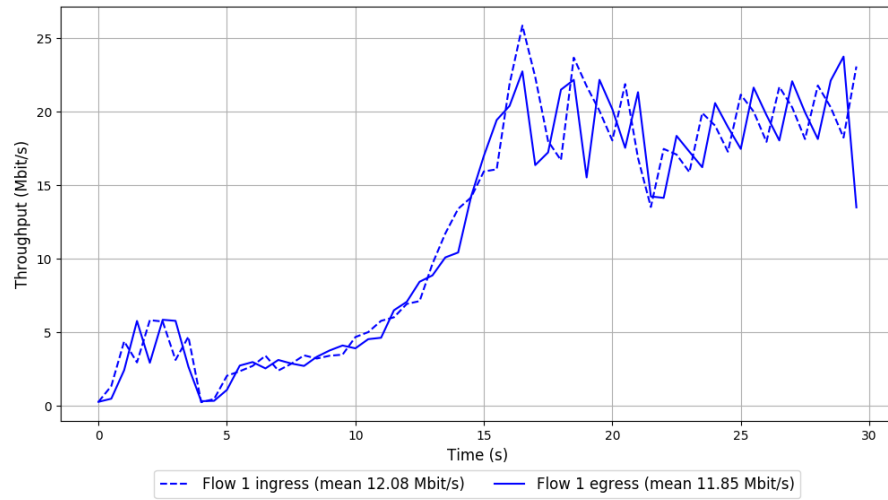
-- Flow 1:

Average throughput: 11.85 Mbit/s

95th percentile per-packet one-way delay: 164.076 ms

Loss rate: 2.79%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-31 01:50:15

End at: 2018-01-31 01:50:45

Below is generated by plot.py at 2018-01-31 05:50:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.47 Mbit/s

95th percentile per-packet one-way delay: 165.030 ms

Loss rate: 3.08%

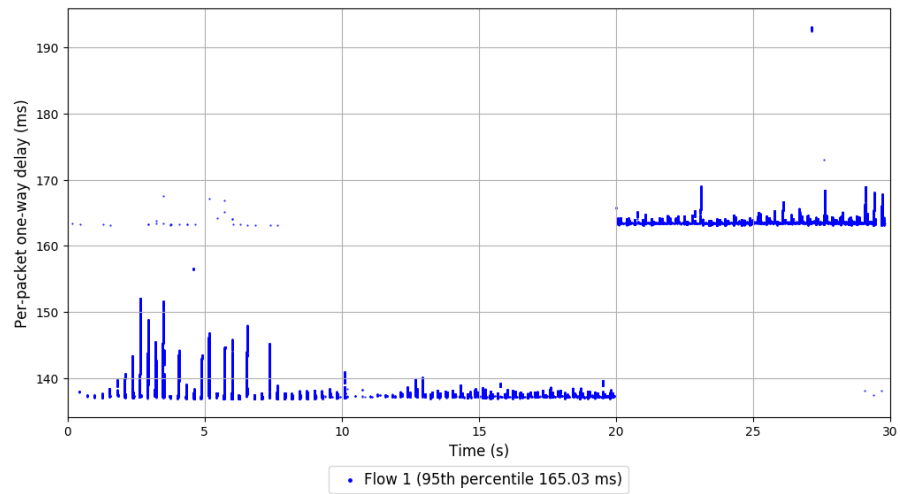
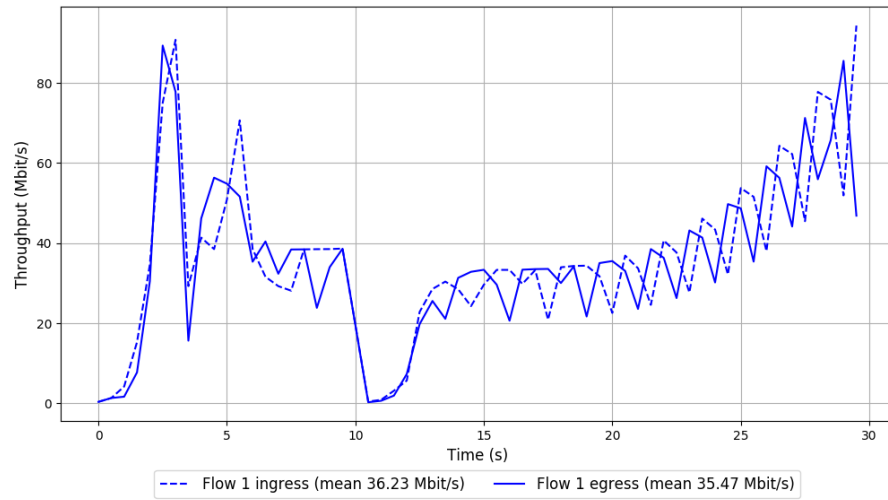
-- Flow 1:

Average throughput: 35.47 Mbit/s

95th percentile per-packet one-way delay: 165.030 ms

Loss rate: 3.08%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-31 02:05:36

End at: 2018-01-31 02:06:06

Below is generated by plot.py at 2018-01-31 05:50:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.38 Mbit/s

95th percentile per-packet one-way delay: 139.758 ms

Loss rate: 1.77%

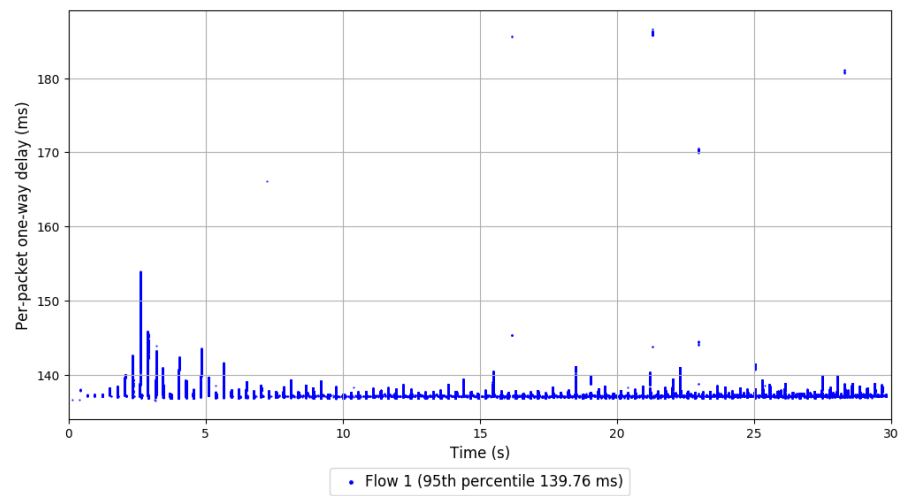
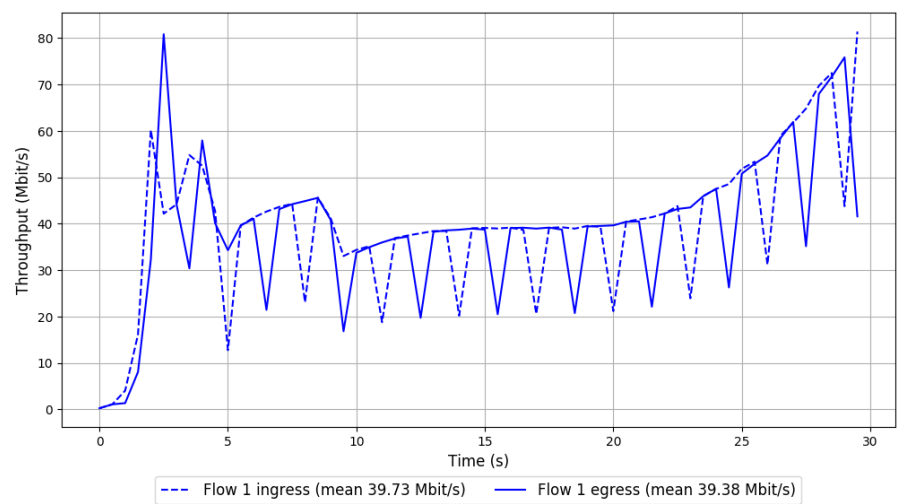
-- Flow 1:

Average throughput: 39.38 Mbit/s

95th percentile per-packet one-way delay: 139.758 ms

Loss rate: 1.77%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-31 02:21:04

End at: 2018-01-31 02:21:34

Below is generated by plot.py at 2018-01-31 05:50:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.67 Mbit/s

95th percentile per-packet one-way delay: 137.590 ms

Loss rate: 2.14%

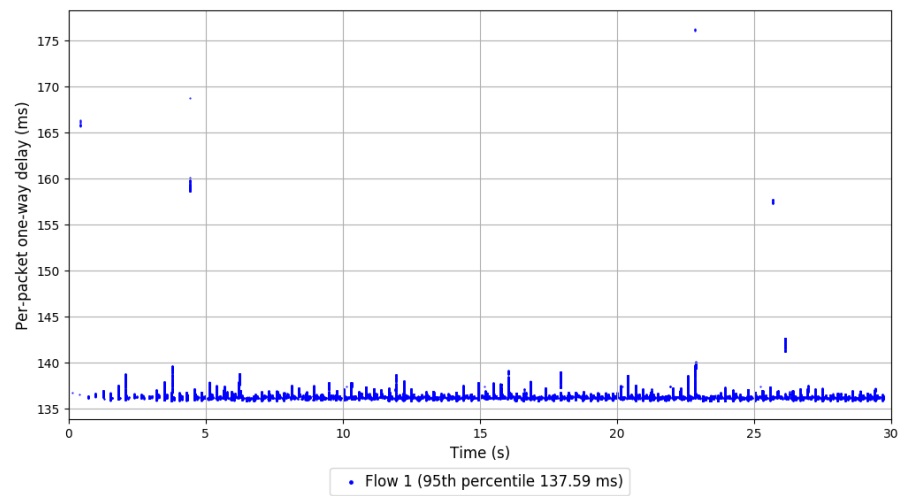
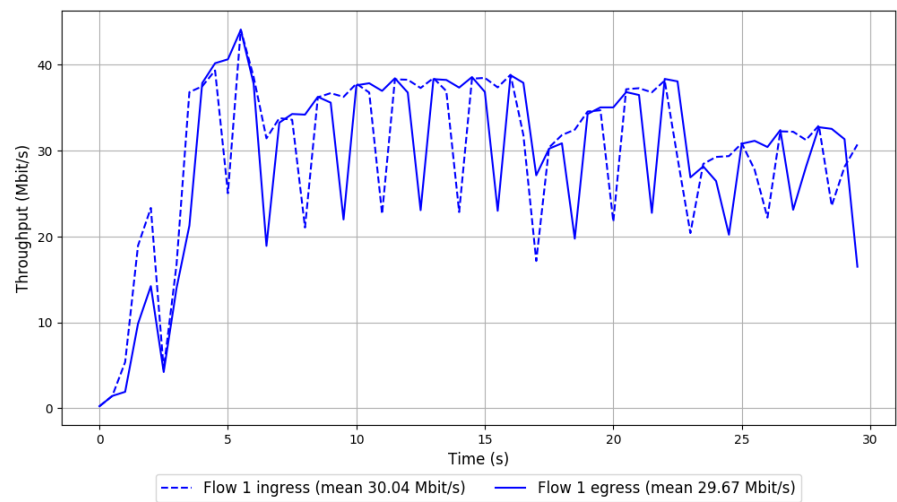
-- Flow 1:

Average throughput: 29.67 Mbit/s

95th percentile per-packet one-way delay: 137.590 ms

Loss rate: 2.14%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-31 02:36:24

End at: 2018-01-31 02:36:54

Below is generated by plot.py at 2018-01-31 05:50:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.32 Mbit/s

95th percentile per-packet one-way delay: 164.204 ms

Loss rate: 2.90%

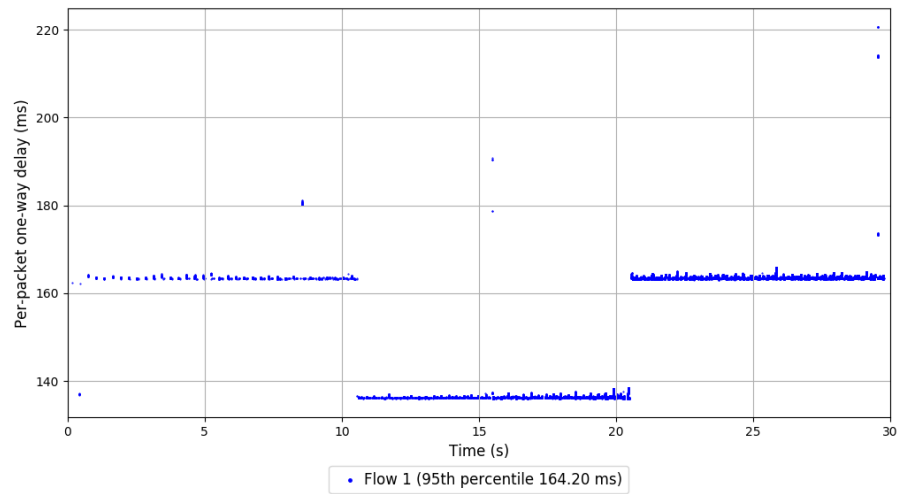
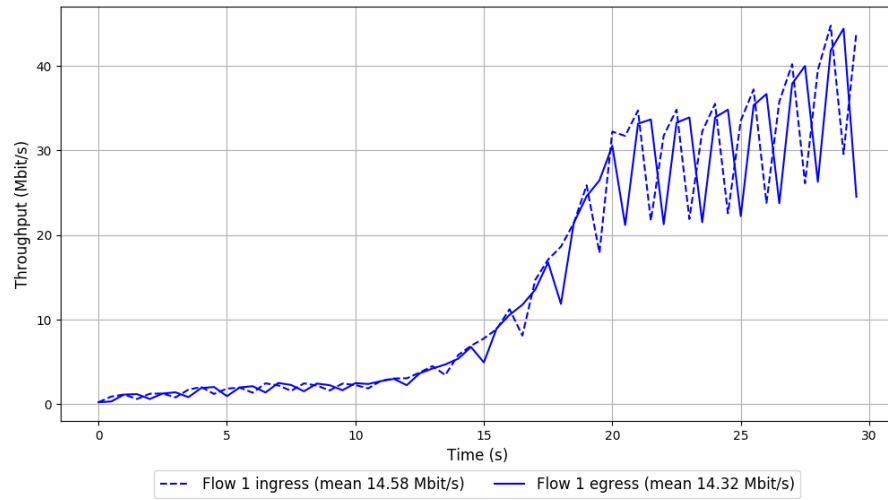
-- Flow 1:

Average throughput: 14.32 Mbit/s

95th percentile per-packet one-way delay: 164.204 ms

Loss rate: 2.90%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-31 02:51:19

End at: 2018-01-31 02:51:49

Below is generated by plot.py at 2018-01-31 05:50:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.58 Mbit/s

95th percentile per-packet one-way delay: 163.517 ms

Loss rate: 0.68%

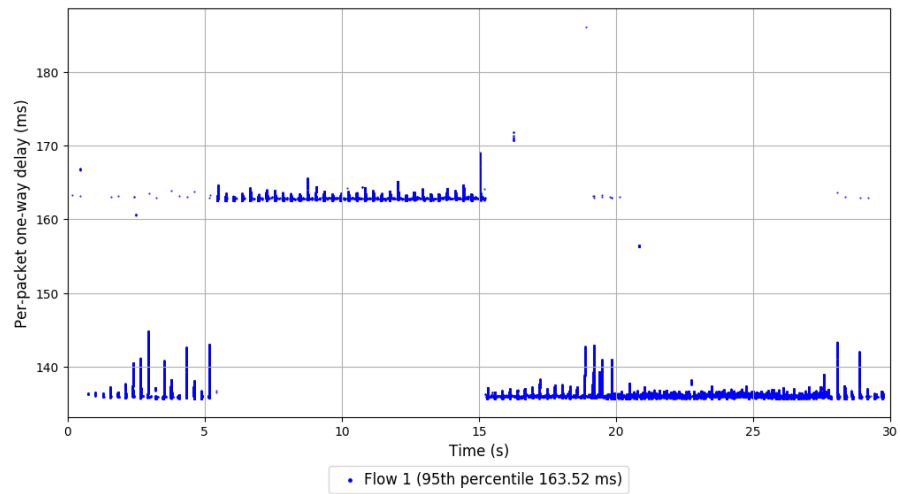
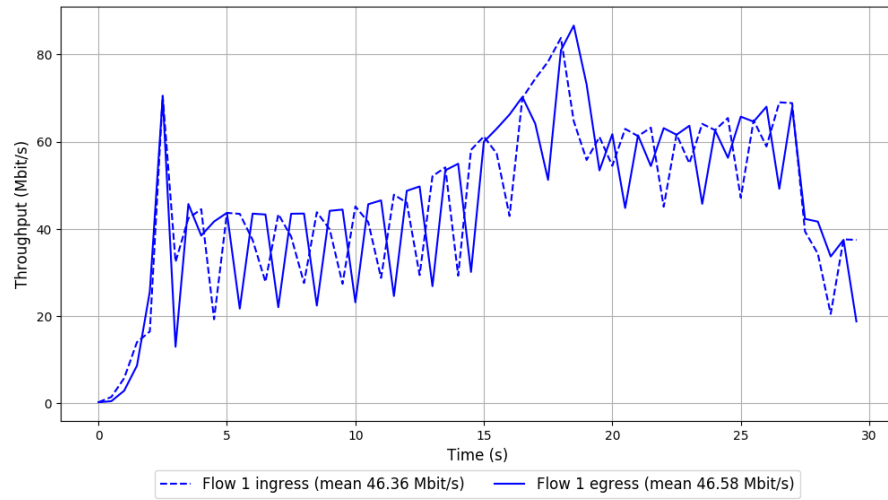
-- Flow 1:

Average throughput: 46.58 Mbit/s

95th percentile per-packet one-way delay: 163.517 ms

Loss rate: 0.68%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-31 03:06:16

End at: 2018-01-31 03:06:46

Below is generated by plot.py at 2018-01-31 05:50:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 163.369 ms

Loss rate: 4.50%

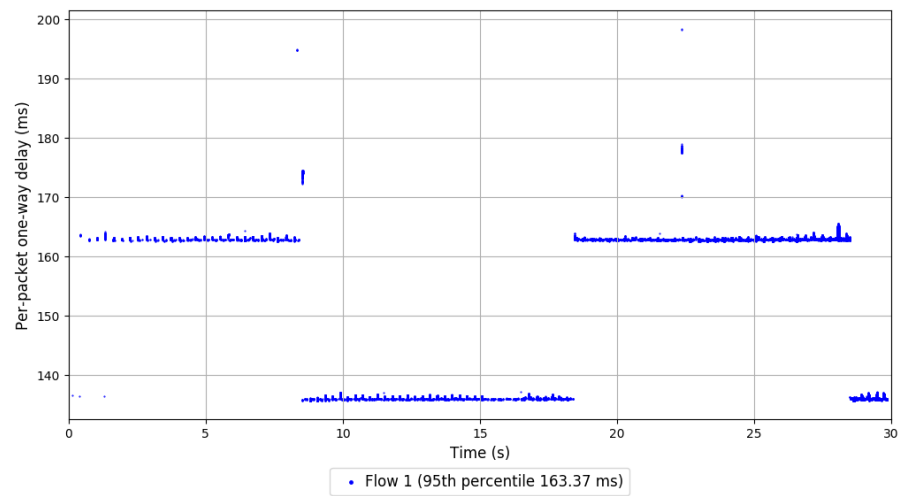
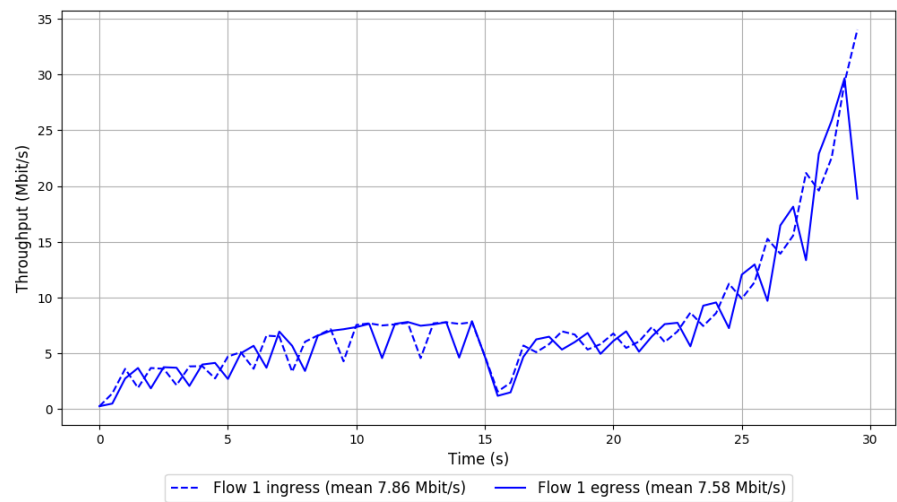
-- Flow 1:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 163.369 ms

Loss rate: 4.50%

Run 10: Report of TCP Cubic — Data Link

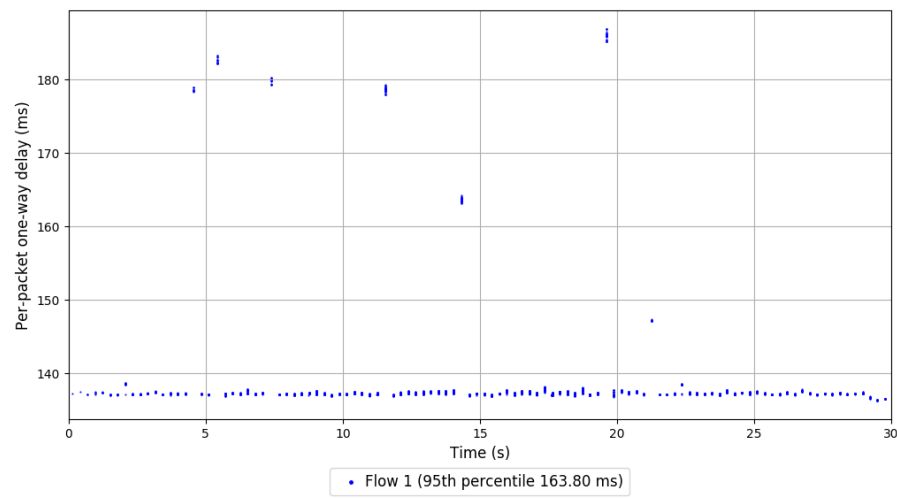
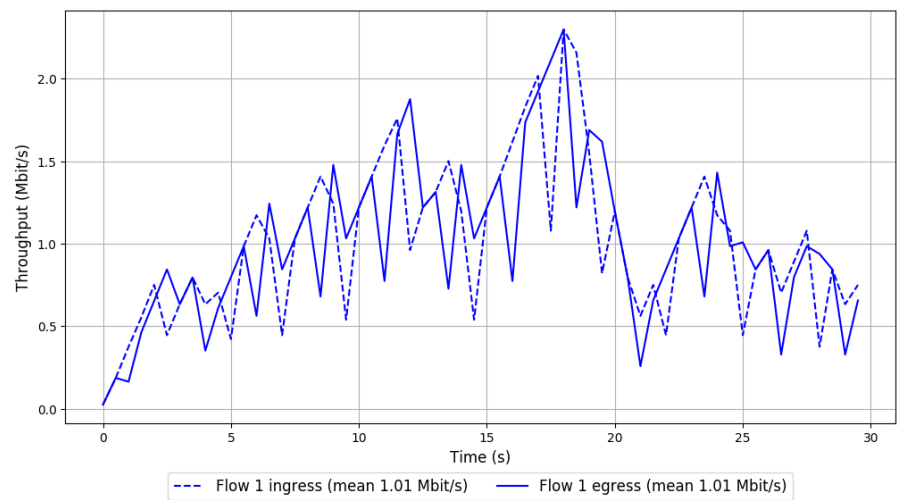


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-31 00:52:35
End at: 2018-01-31 00:53:05

# Below is generated by plot.py at 2018-01-31 05:50:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.01 Mbit/s
95th percentile per-packet one-way delay: 163.802 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 1.01 Mbit/s
95th percentile per-packet one-way delay: 163.802 ms
Loss rate: 0.66%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-01-31 01:07:43

End at: 2018-01-31 01:08:13

Below is generated by plot.py at 2018-01-31 05:50:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 144.733 ms

Loss rate: 1.49%

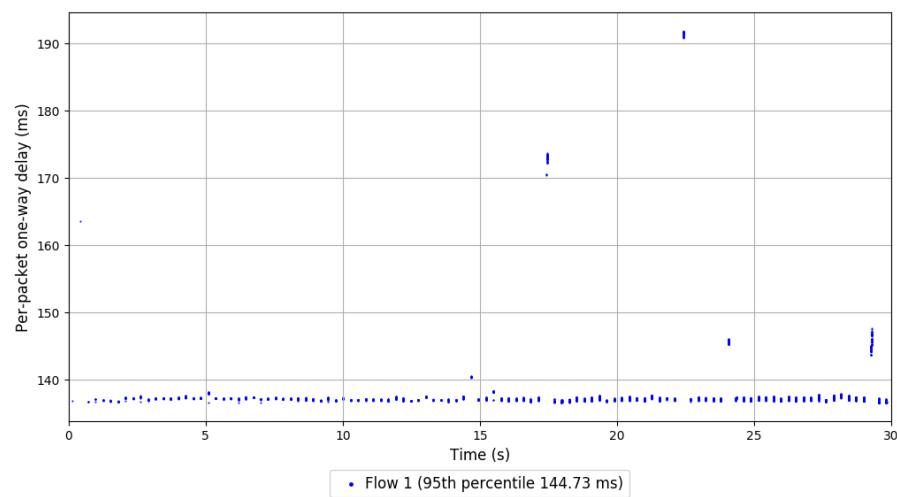
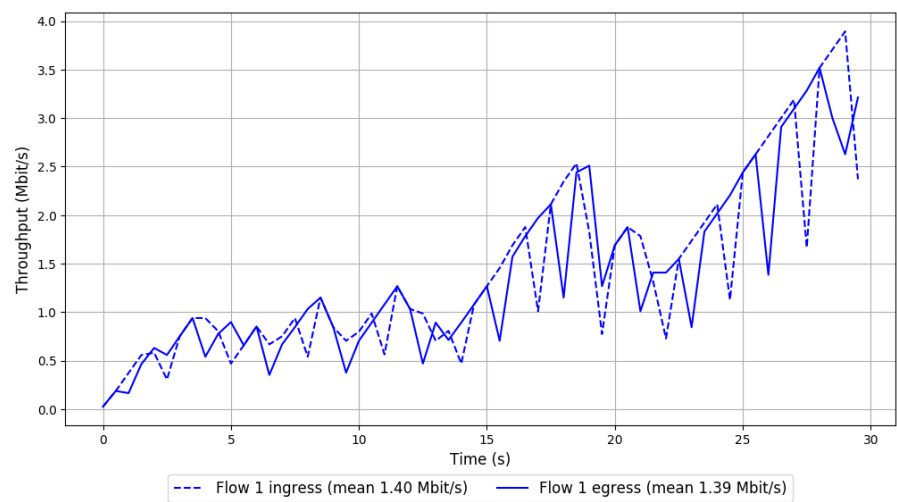
-- Flow 1:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 144.733 ms

Loss rate: 1.49%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-31 01:22:41

End at: 2018-01-31 01:23:11

Below is generated by plot.py at 2018-01-31 05:50:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.96 Mbit/s

95th percentile per-packet one-way delay: 163.775 ms

Loss rate: 0.58%

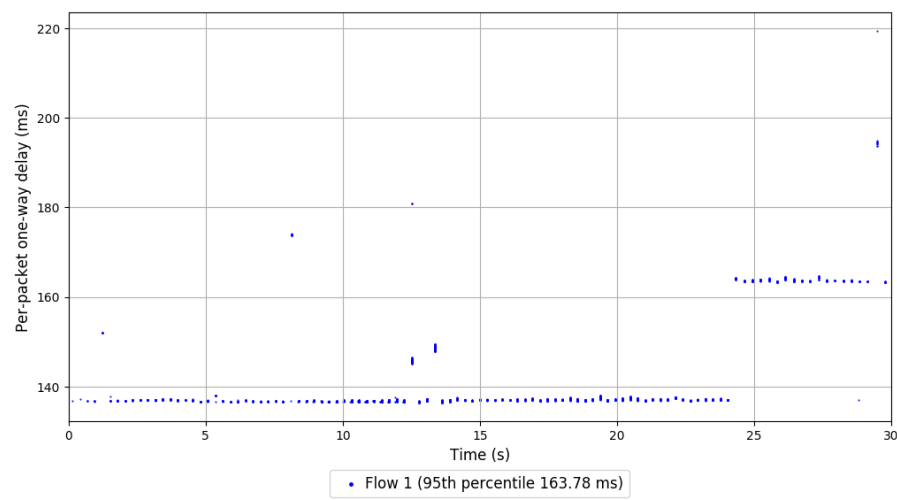
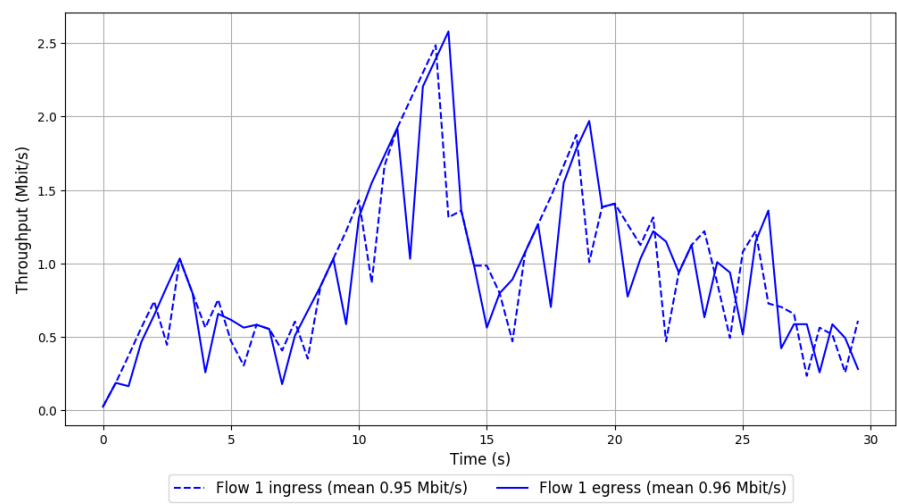
-- Flow 1:

Average throughput: 0.96 Mbit/s

95th percentile per-packet one-way delay: 163.775 ms

Loss rate: 0.58%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-31 01:37:04

End at: 2018-01-31 01:37:34

Below is generated by plot.py at 2018-01-31 05:50:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 164.889 ms

Loss rate: 0.91%

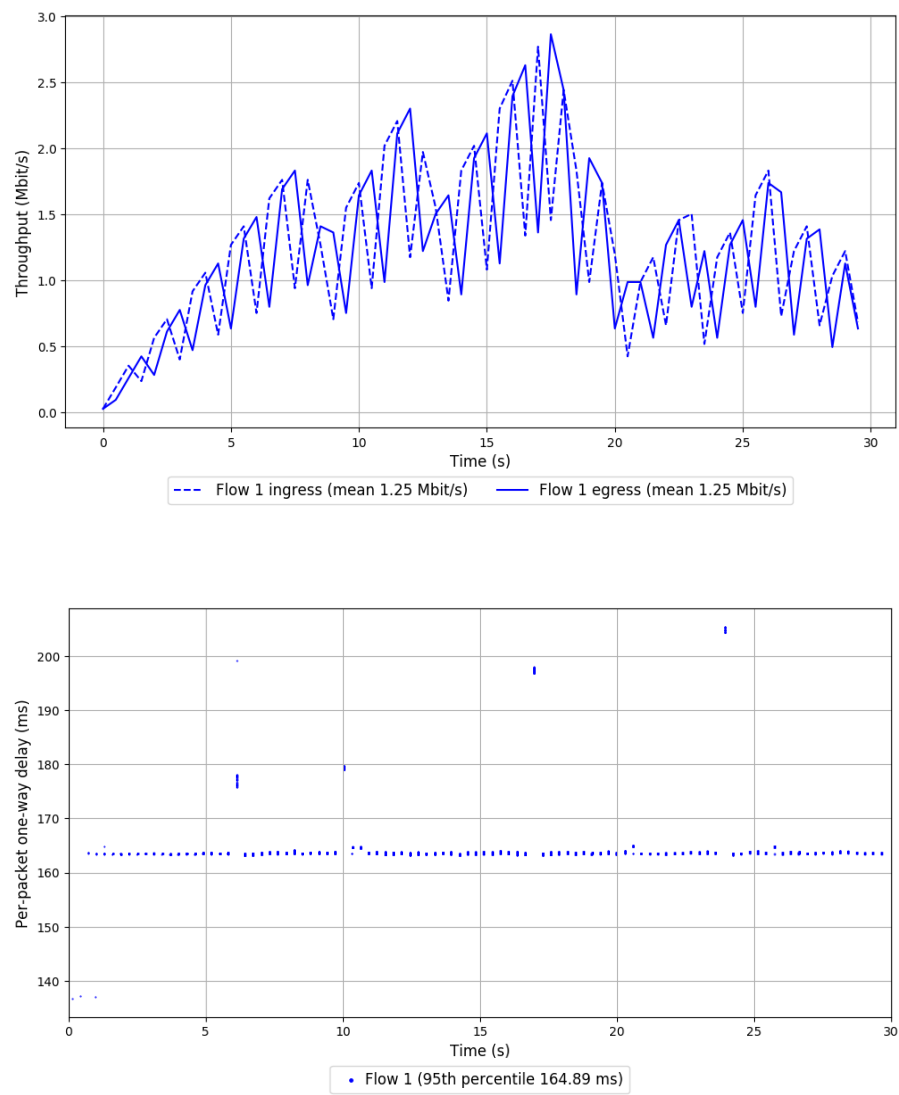
-- Flow 1:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 164.889 ms

Loss rate: 0.91%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-31 01:51:53

End at: 2018-01-31 01:52:23

Below is generated by plot.py at 2018-01-31 05:50:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.80 Mbit/s

95th percentile per-packet one-way delay: 164.233 ms

Loss rate: 1.66%

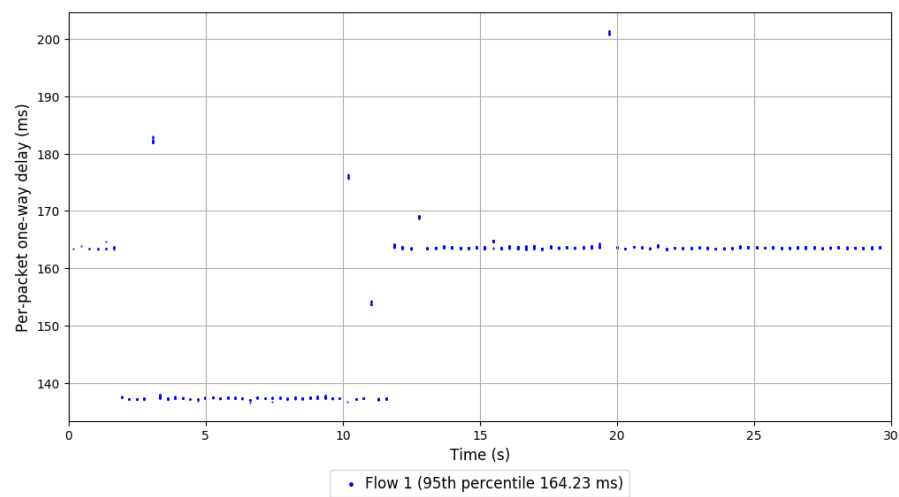
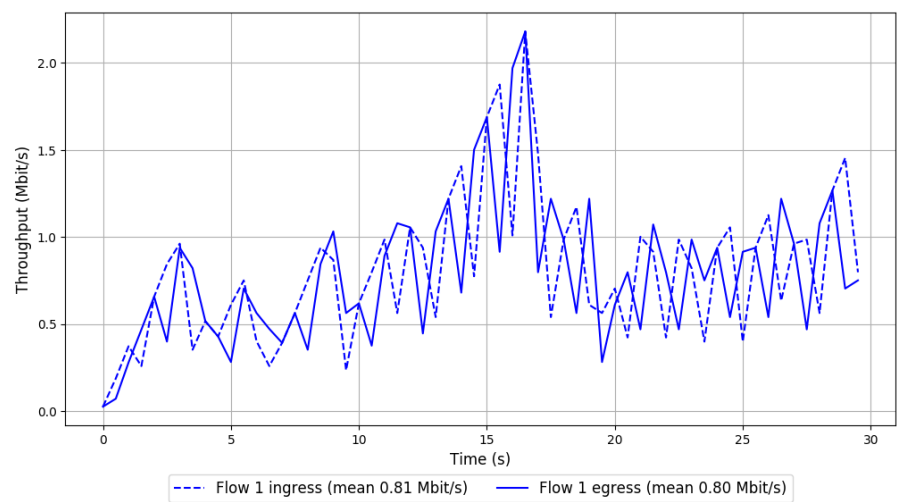
-- Flow 1:

Average throughput: 0.80 Mbit/s

95th percentile per-packet one-way delay: 164.233 ms

Loss rate: 1.66%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-31 02:07:15

End at: 2018-01-31 02:07:45

Below is generated by plot.py at 2018-01-31 05:50:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 163.636 ms

Loss rate: 2.48%

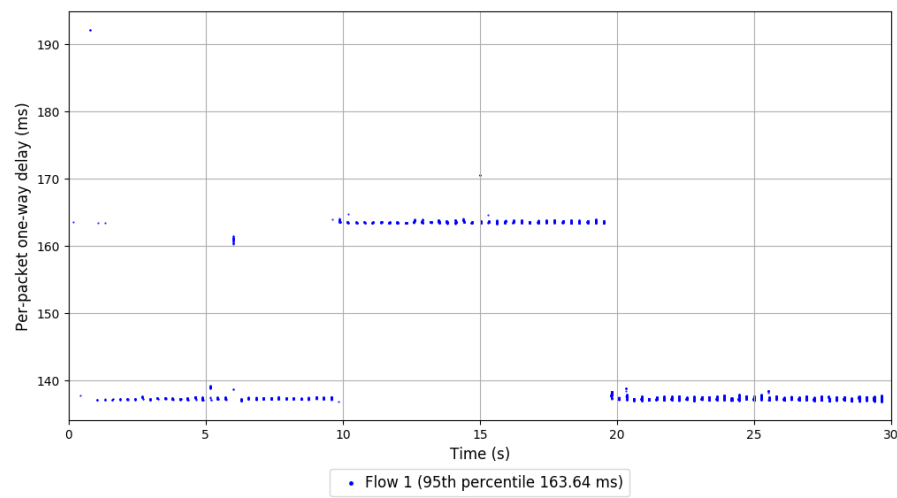
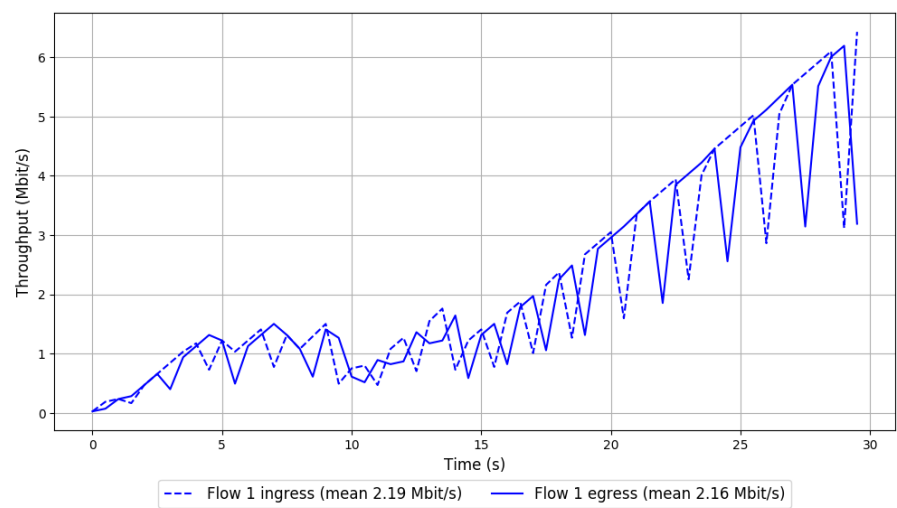
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 163.636 ms

Loss rate: 2.48%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-31 02:22:41

End at: 2018-01-31 02:23:11

Below is generated by plot.py at 2018-01-31 05:50:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 163.835 ms

Loss rate: 0.98%

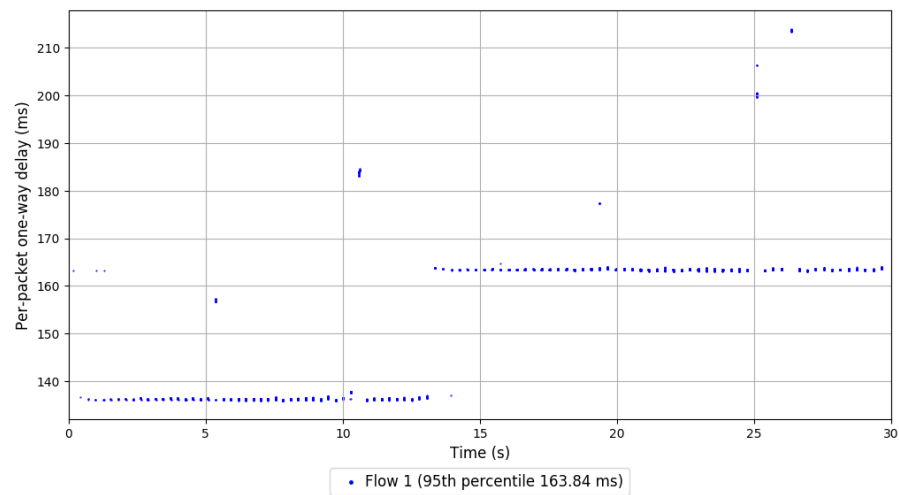
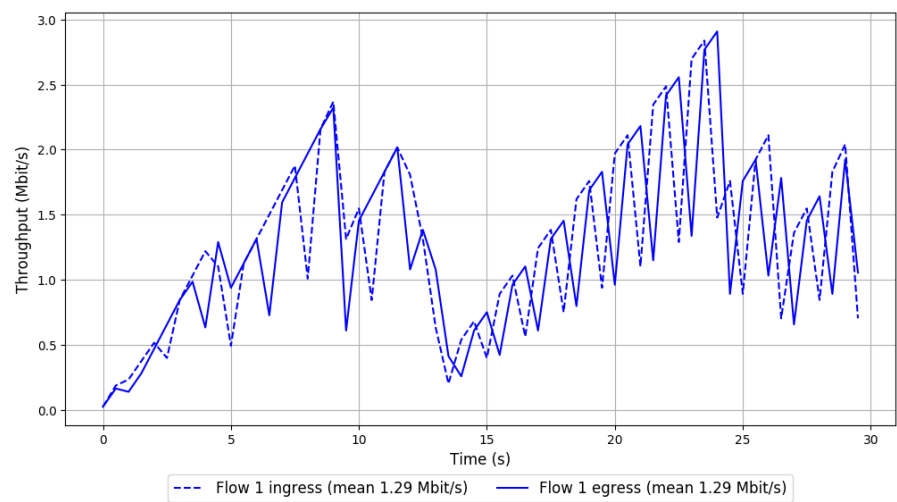
-- Flow 1:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 163.835 ms

Loss rate: 0.98%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-31 02:38:02

End at: 2018-01-31 02:38:32

Below is generated by plot.py at 2018-01-31 05:50:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.35 Mbit/s

95th percentile per-packet one-way delay: 179.668 ms

Loss rate: 2.44%

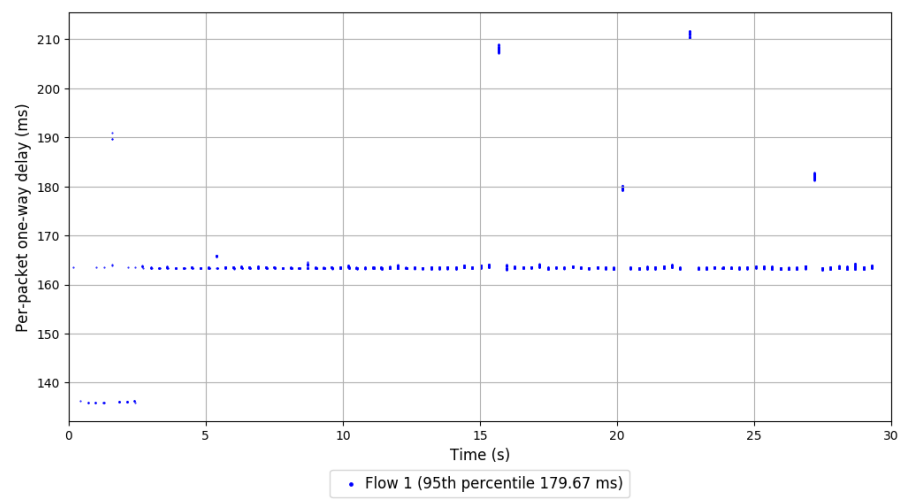
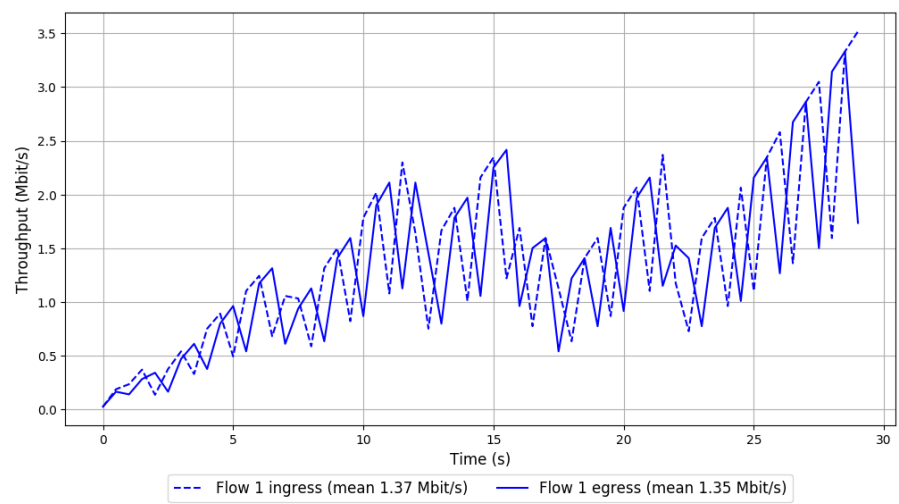
-- Flow 1:

Average throughput: 1.35 Mbit/s

95th percentile per-packet one-way delay: 179.668 ms

Loss rate: 2.44%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-31 02:52:59

End at: 2018-01-31 02:53:29

Below is generated by plot.py at 2018-01-31 05:50:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 163.375 ms

Loss rate: 1.72%

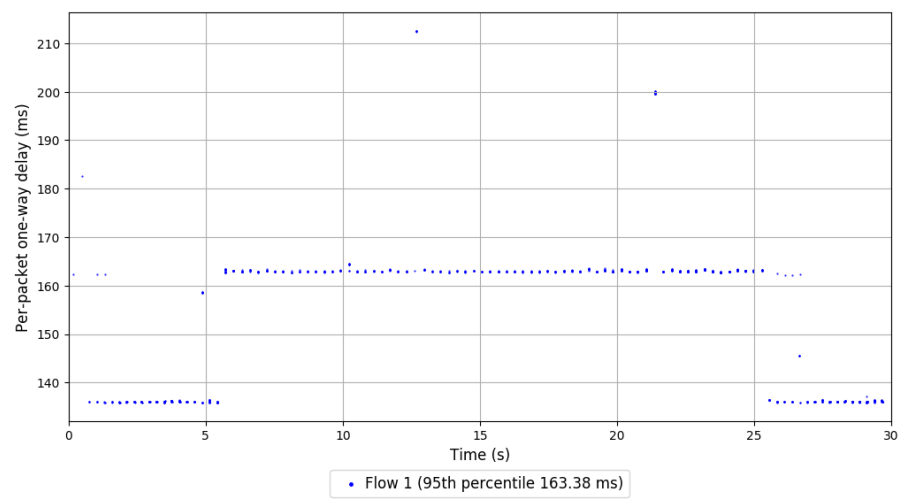
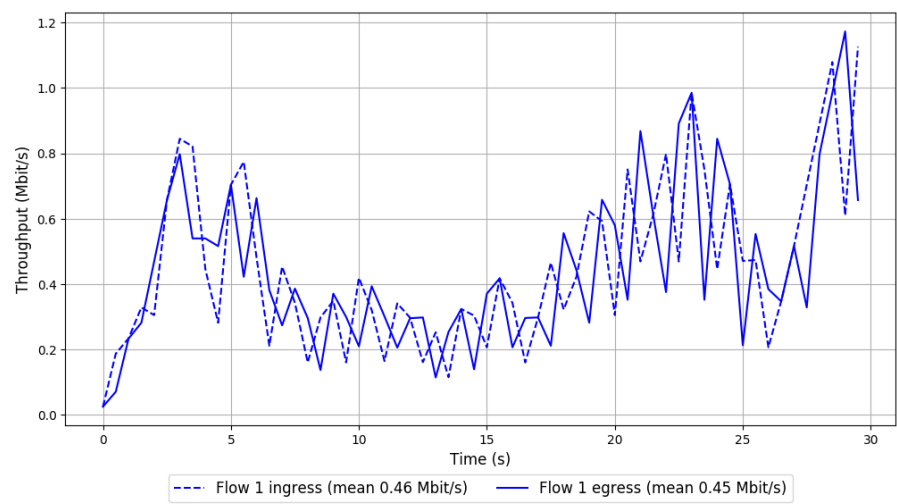
-- Flow 1:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 163.375 ms

Loss rate: 1.72%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-31 03:07:52

End at: 2018-01-31 03:08:22

Below is generated by plot.py at 2018-01-31 05:50:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.94 Mbit/s

95th percentile per-packet one-way delay: 164.633 ms

Loss rate: 0.67%

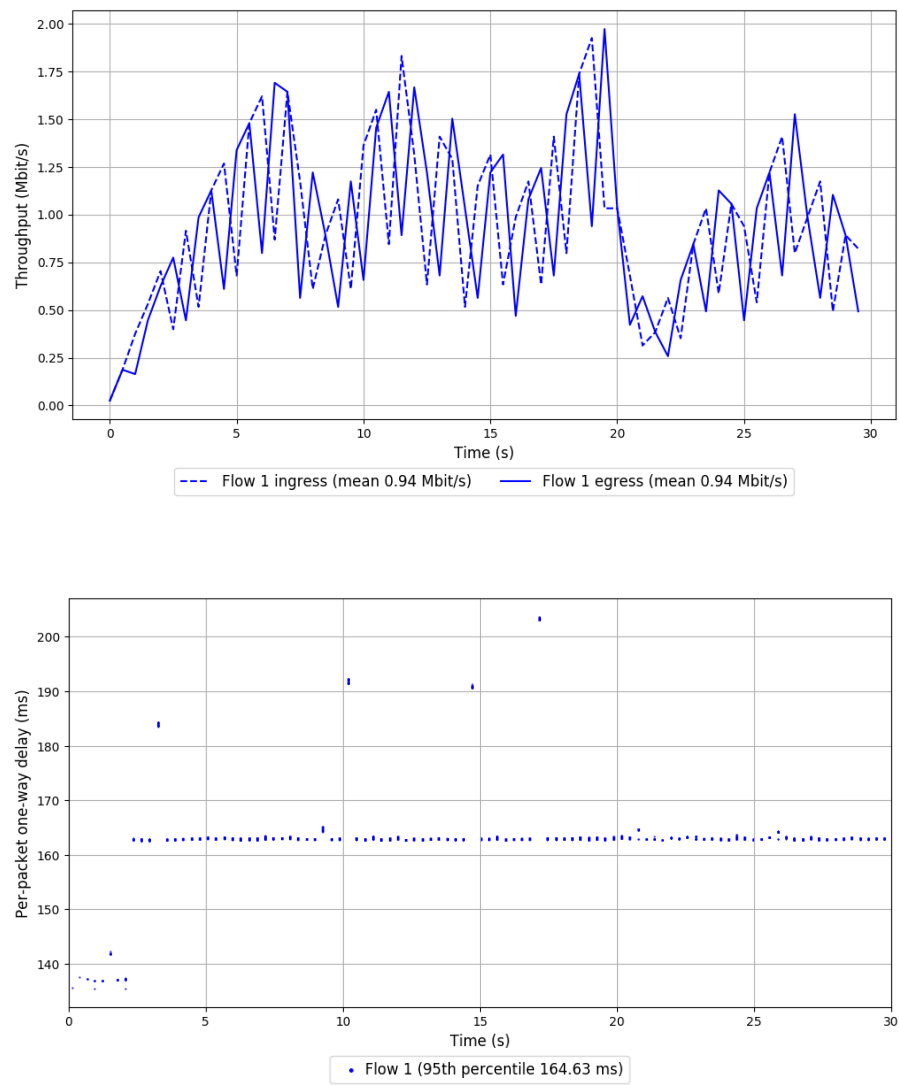
-- Flow 1:

Average throughput: 0.94 Mbit/s

95th percentile per-packet one-way delay: 164.633 ms

Loss rate: 0.67%

Run 10: Report of LEDBAT — Data Link

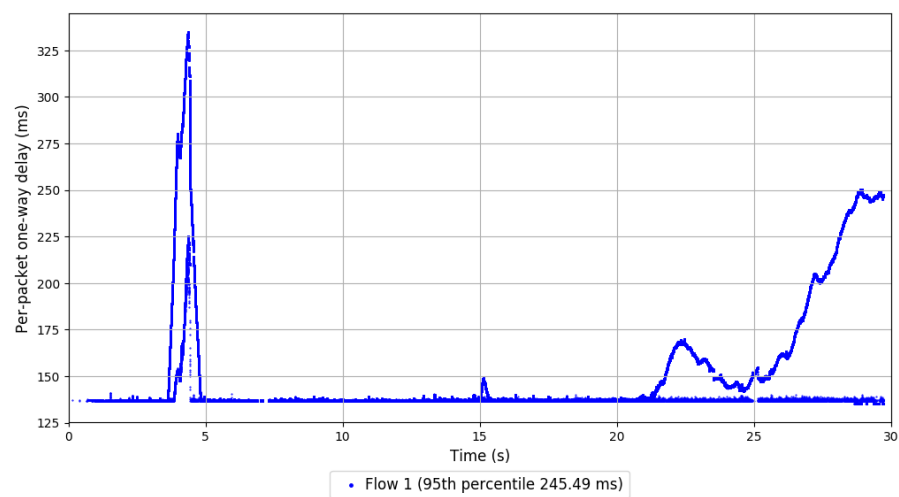
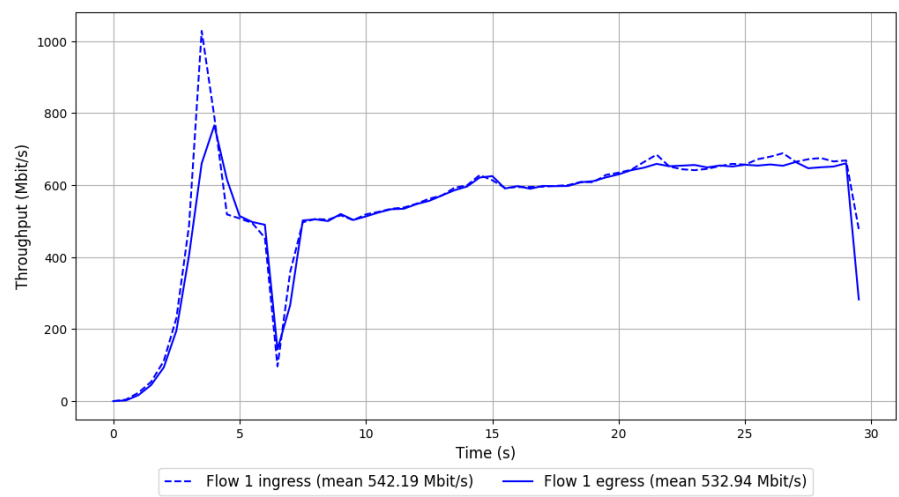


```
Run 1: Statistics of PCC

Start at: 2018-01-31 00:43:53
End at: 2018-01-31 00:44:23

# Below is generated by plot.py at 2018-01-31 05:58:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 532.94 Mbit/s
95th percentile per-packet one-way delay: 245.488 ms
Loss rate: 2.60%
-- Flow 1:
Average throughput: 532.94 Mbit/s
95th percentile per-packet one-way delay: 245.488 ms
Loss rate: 2.60%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-31 00:58:49

End at: 2018-01-31 00:59:19

Below is generated by plot.py at 2018-01-31 05:58:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 543.80 Mbit/s

95th percentile per-packet one-way delay: 163.569 ms

Loss rate: 2.01%

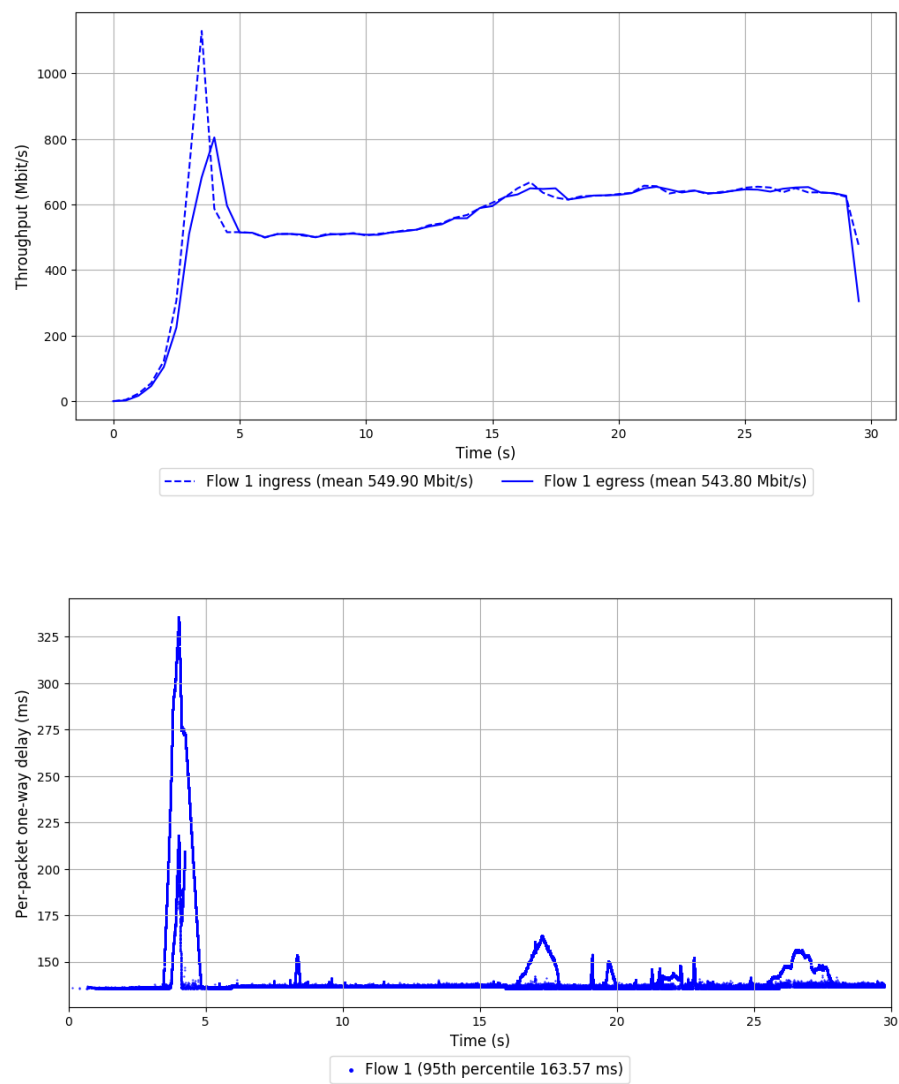
-- Flow 1:

Average throughput: 543.80 Mbit/s

95th percentile per-packet one-way delay: 163.569 ms

Loss rate: 2.01%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-31 01:14:10

End at: 2018-01-31 01:14:40

Below is generated by plot.py at 2018-01-31 05:58:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 535.98 Mbit/s

95th percentile per-packet one-way delay: 178.088 ms

Loss rate: 2.81%

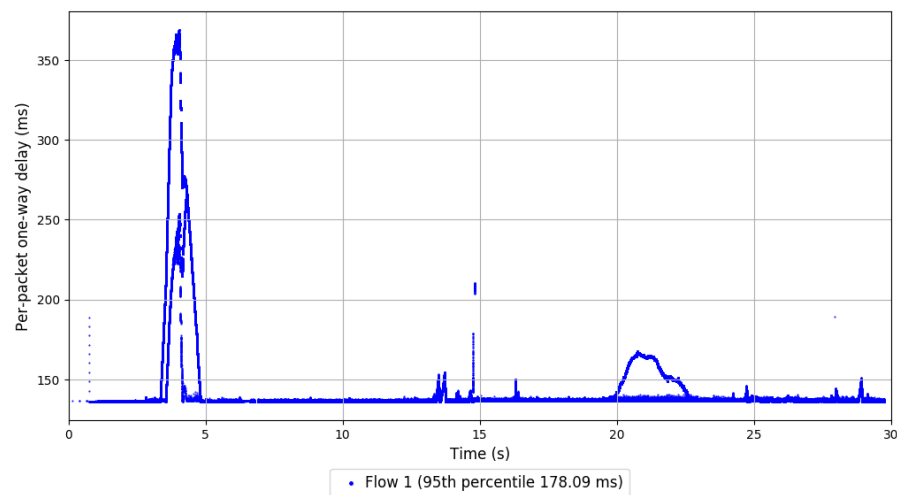
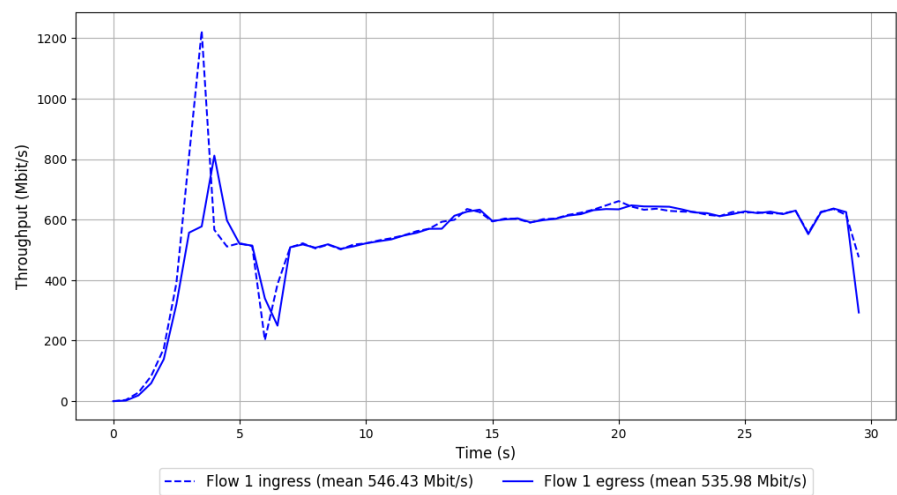
-- Flow 1:

Average throughput: 535.98 Mbit/s

95th percentile per-packet one-way delay: 178.088 ms

Loss rate: 2.81%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-31 01:28:58

End at: 2018-01-31 01:29:28

Below is generated by plot.py at 2018-01-31 05:58:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.21 Mbit/s

95th percentile per-packet one-way delay: 163.299 ms

Loss rate: 1.72%

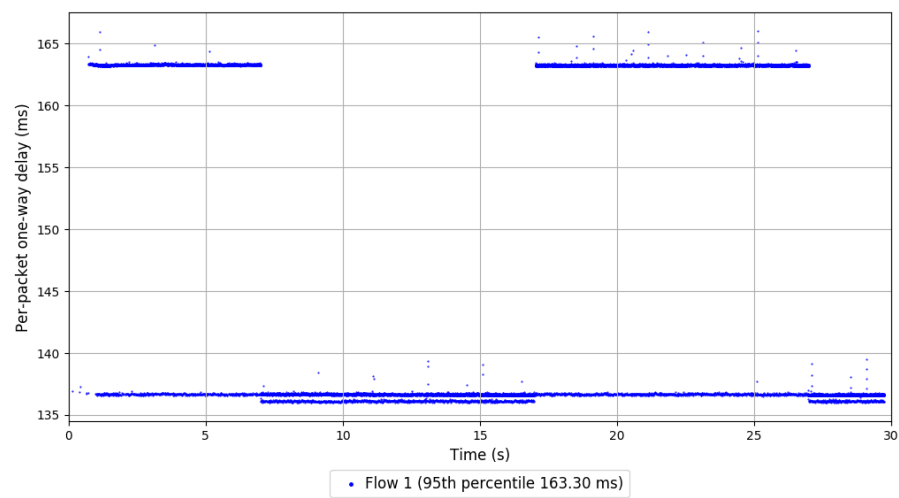
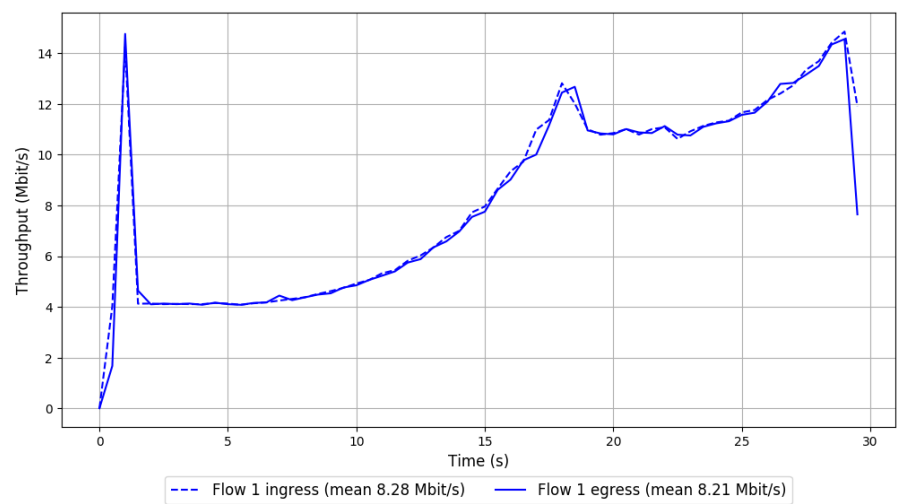
-- Flow 1:

Average throughput: 8.21 Mbit/s

95th percentile per-packet one-way delay: 163.299 ms

Loss rate: 1.72%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-31 01:43:14

End at: 2018-01-31 01:43:44

Below is generated by plot.py at 2018-01-31 05:59:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 545.51 Mbit/s

95th percentile per-packet one-way delay: 184.231 ms

Loss rate: 2.18%

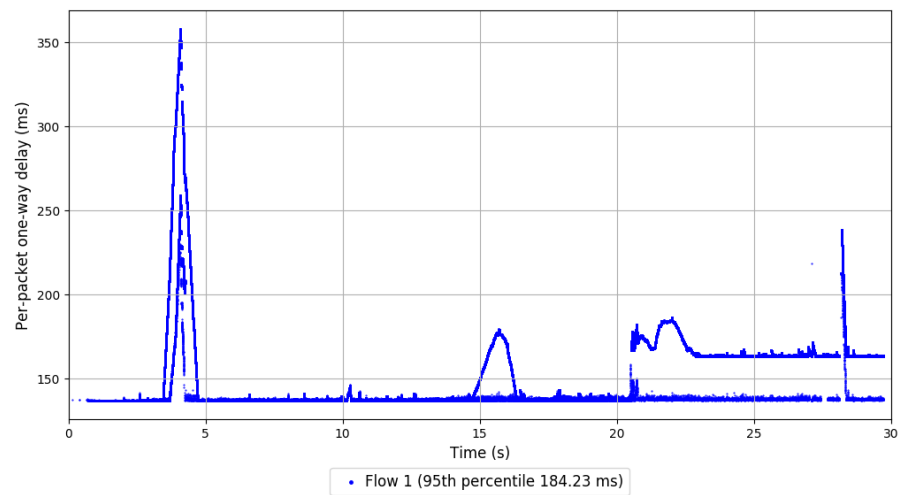
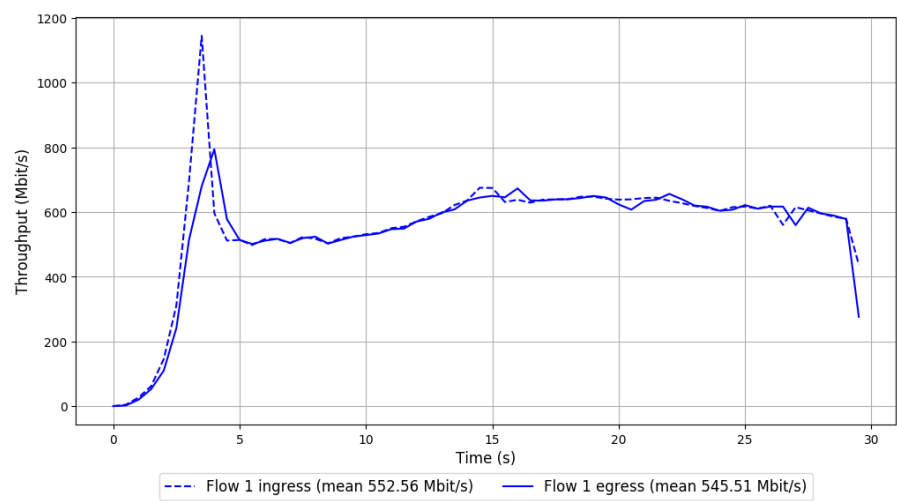
-- Flow 1:

Average throughput: 545.51 Mbit/s

95th percentile per-packet one-way delay: 184.231 ms

Loss rate: 2.18%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-31 01:57:53

End at: 2018-01-31 01:58:23

Below is generated by plot.py at 2018-01-31 05:59:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 550.98 Mbit/s

95th percentile per-packet one-way delay: 194.796 ms

Loss rate: 2.18%

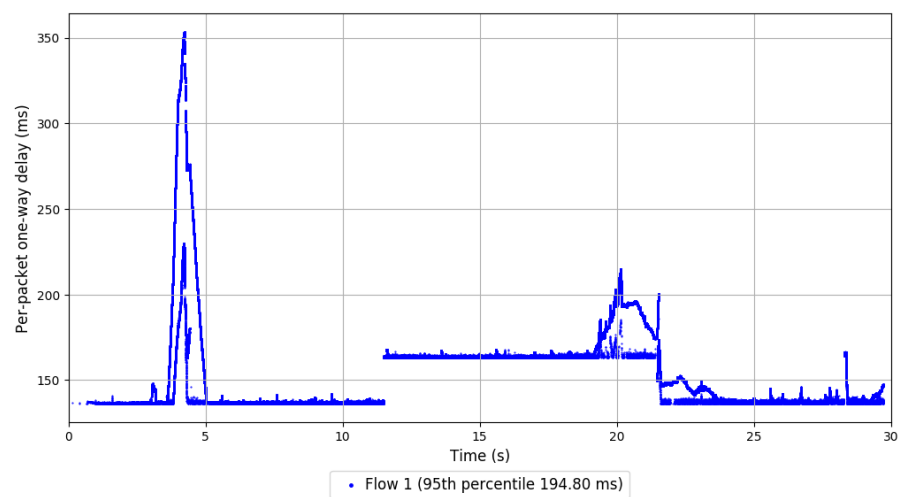
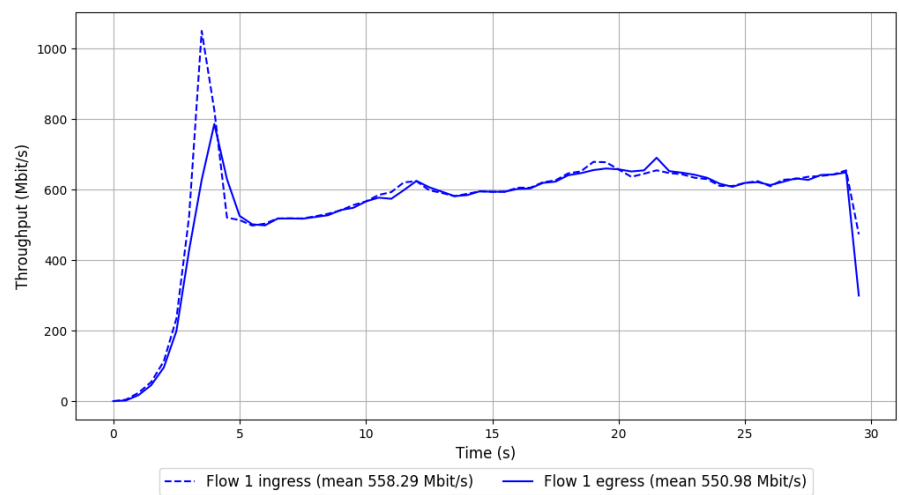
-- Flow 1:

Average throughput: 550.98 Mbit/s

95th percentile per-packet one-way delay: 194.796 ms

Loss rate: 2.18%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-31 02:13:33

End at: 2018-01-31 02:14:03

Below is generated by plot.py at 2018-01-31 05:59:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 499.45 Mbit/s

95th percentile per-packet one-way delay: 164.370 ms

Loss rate: 2.30%

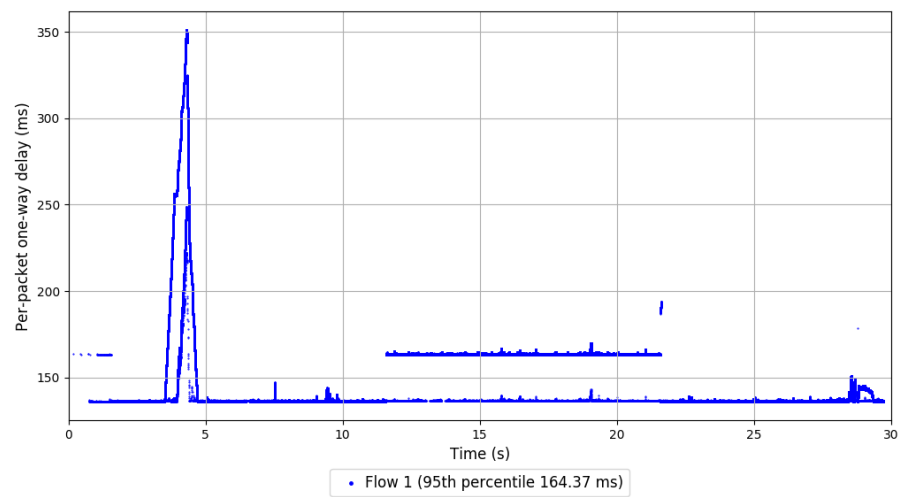
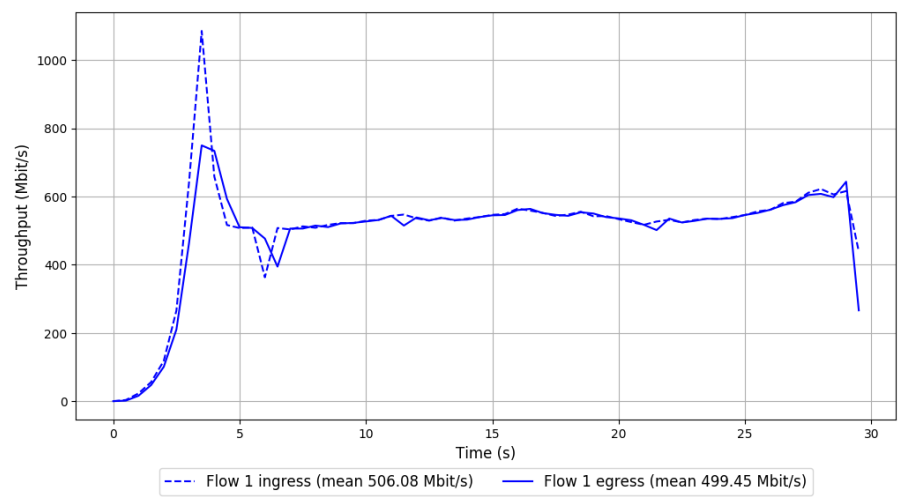
-- Flow 1:

Average throughput: 499.45 Mbit/s

95th percentile per-packet one-way delay: 164.370 ms

Loss rate: 2.30%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-31 02:29:08

End at: 2018-01-31 02:29:38

Below is generated by plot.py at 2018-01-31 05:59:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 539.76 Mbit/s

95th percentile per-packet one-way delay: 205.638 ms

Loss rate: 2.30%

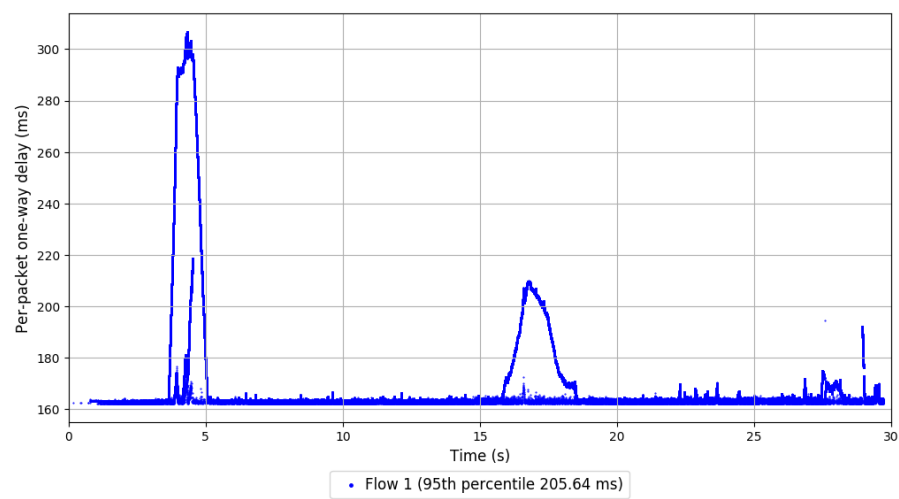
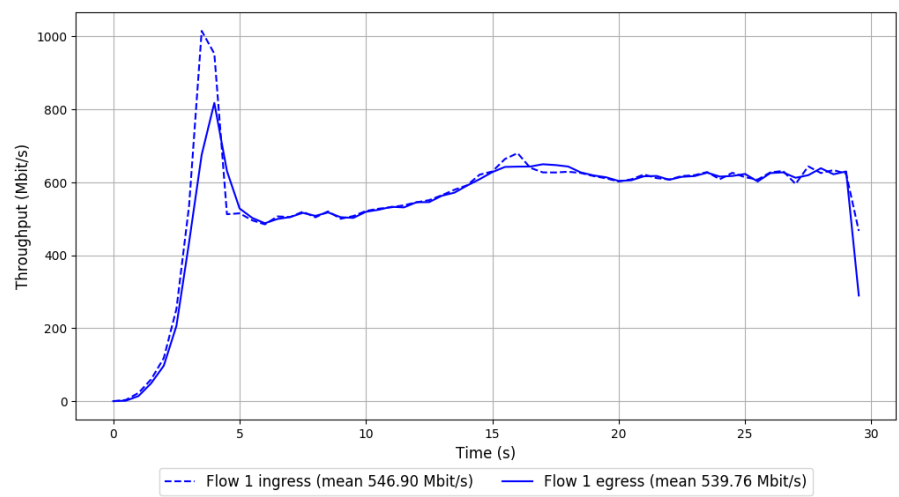
-- Flow 1:

Average throughput: 539.76 Mbit/s

95th percentile per-packet one-way delay: 205.638 ms

Loss rate: 2.30%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-31 02:44:20

End at: 2018-01-31 02:44:50

Below is generated by plot.py at 2018-01-31 05:59:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 539.43 Mbit/s

95th percentile per-packet one-way delay: 209.798 ms

Loss rate: 2.23%

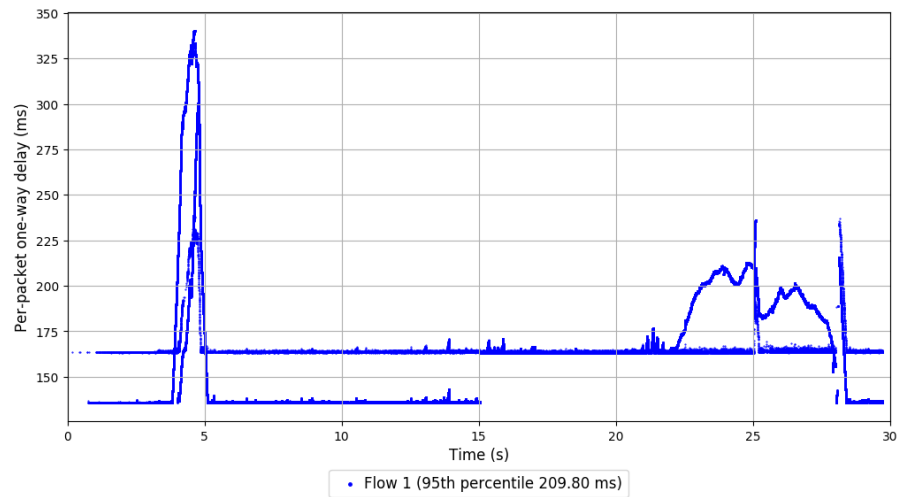
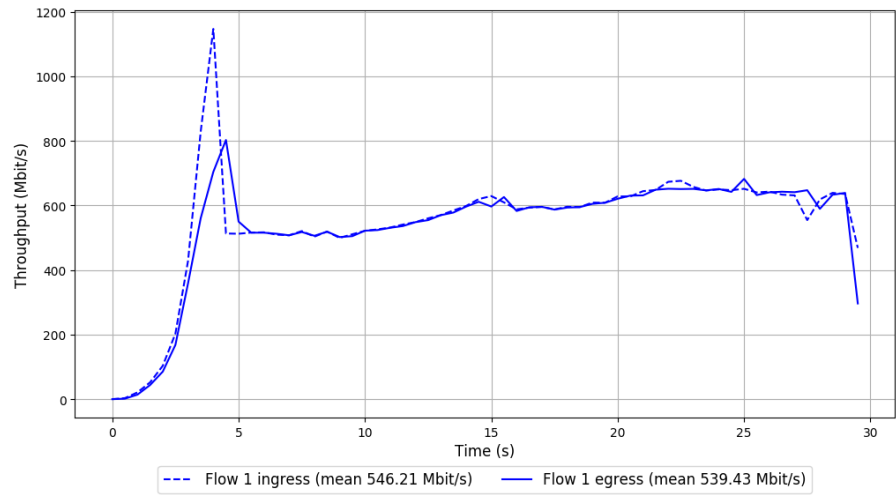
-- Flow 1:

Average throughput: 539.43 Mbit/s

95th percentile per-packet one-way delay: 209.798 ms

Loss rate: 2.23%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-31 02:59:19

End at: 2018-01-31 02:59:49

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 534.87 Mbit/s

95th percentile per-packet one-way delay: 217.111 ms

Loss rate: 2.95%

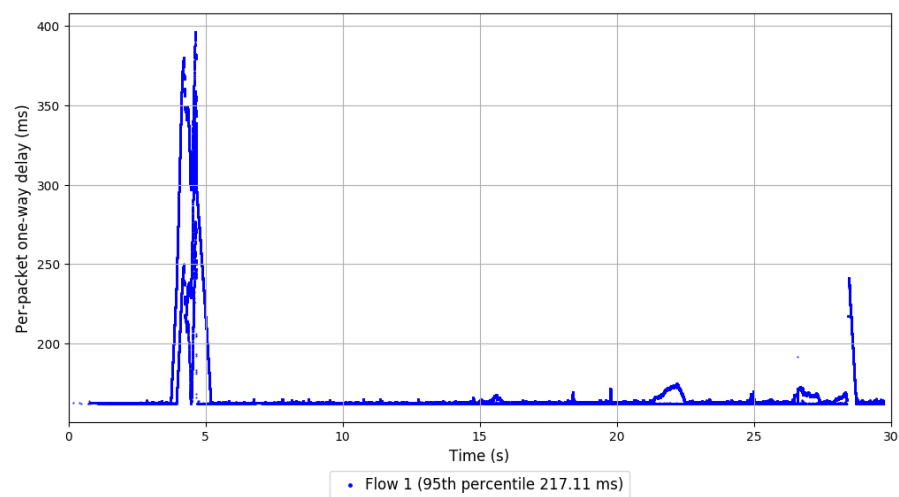
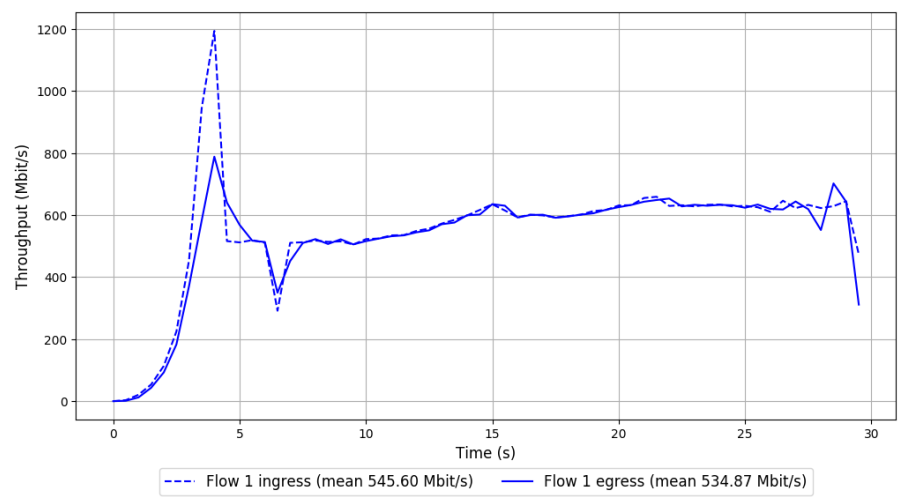
-- Flow 1:

Average throughput: 534.87 Mbit/s

95th percentile per-packet one-way delay: 217.111 ms

Loss rate: 2.95%

Run 10: Report of PCC — Data Link

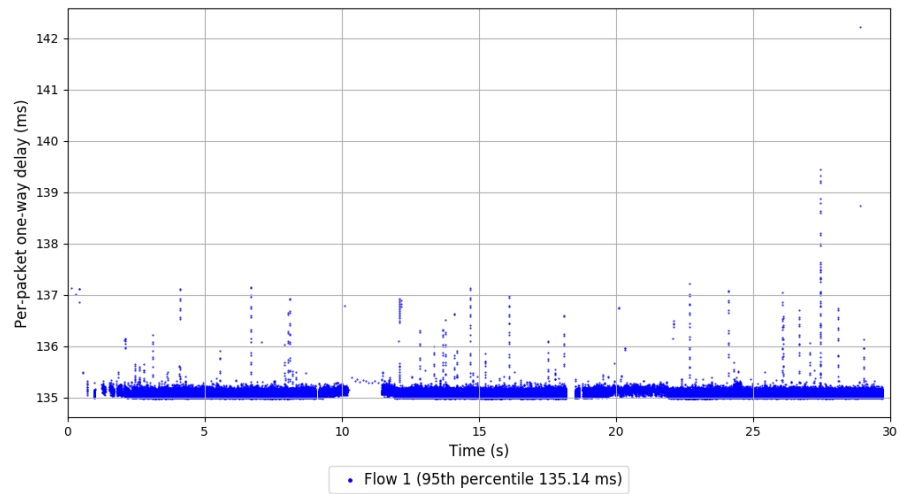
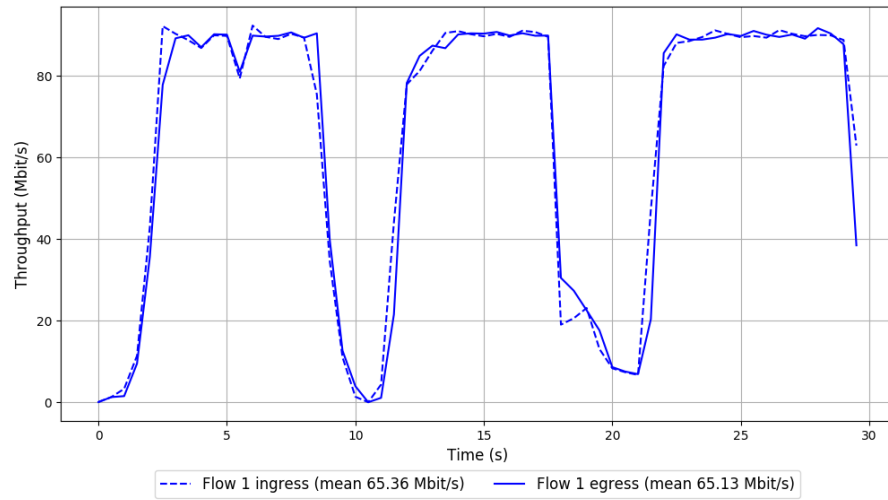


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-31 00:57:14
End at: 2018-01-31 00:57:44

# Below is generated by plot.py at 2018-01-31 06:07:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.13 Mbit/s
95th percentile per-packet one-way delay: 135.143 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 65.13 Mbit/s
95th percentile per-packet one-way delay: 135.143 ms
Loss rate: 1.25%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-31 01:12:35

End at: 2018-01-31 01:13:05

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.47 Mbit/s

95th percentile per-packet one-way delay: 136.966 ms

Loss rate: 1.16%

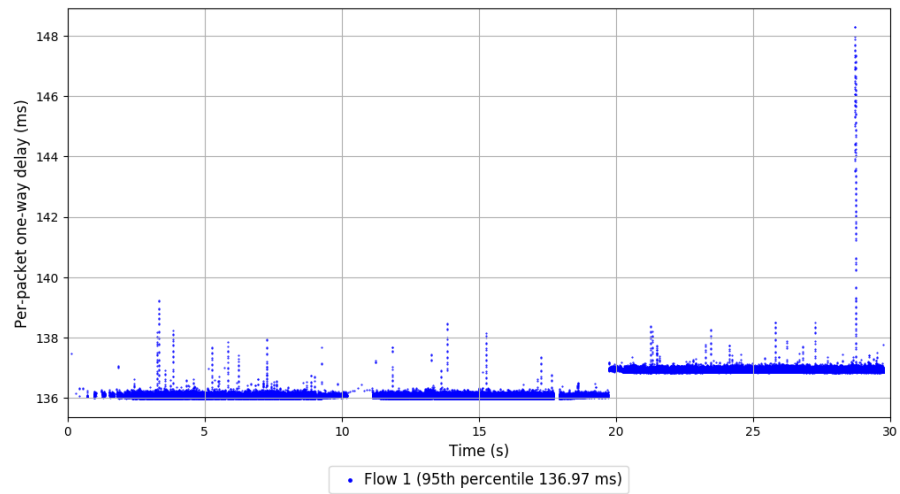
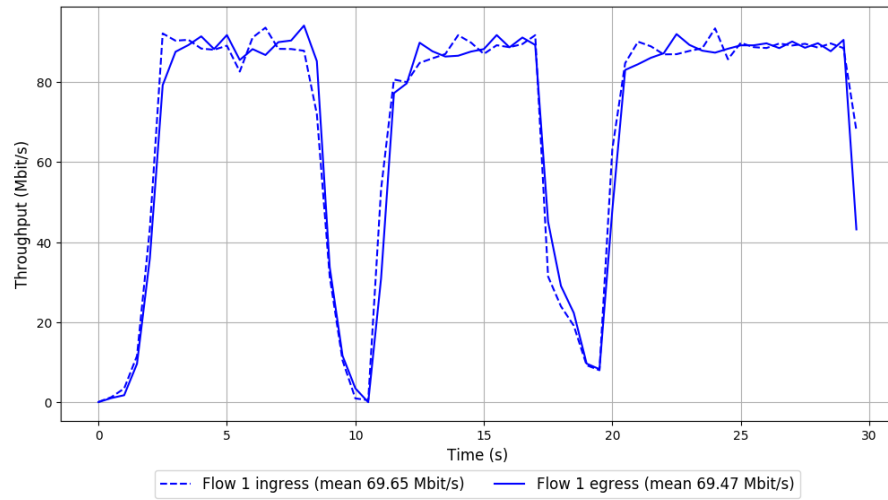
-- Flow 1:

Average throughput: 69.47 Mbit/s

95th percentile per-packet one-way delay: 136.966 ms

Loss rate: 1.16%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-31 01:27:22

End at: 2018-01-31 01:27:52

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.33 Mbit/s

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

Loss rate: 1.12%

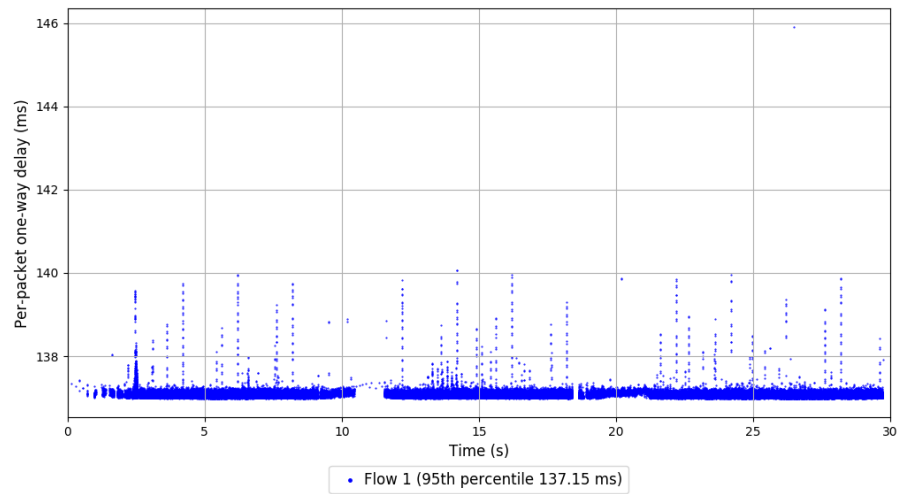
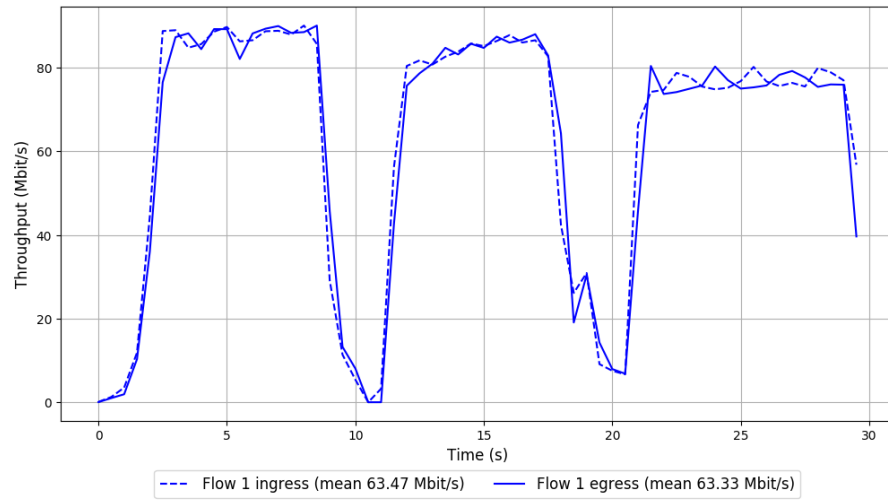
-- Flow 1:

Average throughput: 63.33 Mbit/s

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

Loss rate: 1.12%

Run 3: Report of QUIC Cubic — Data Link

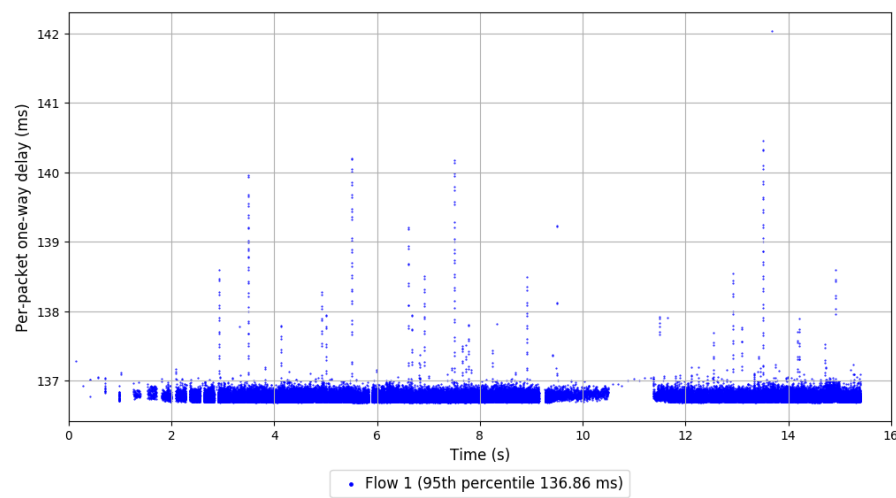
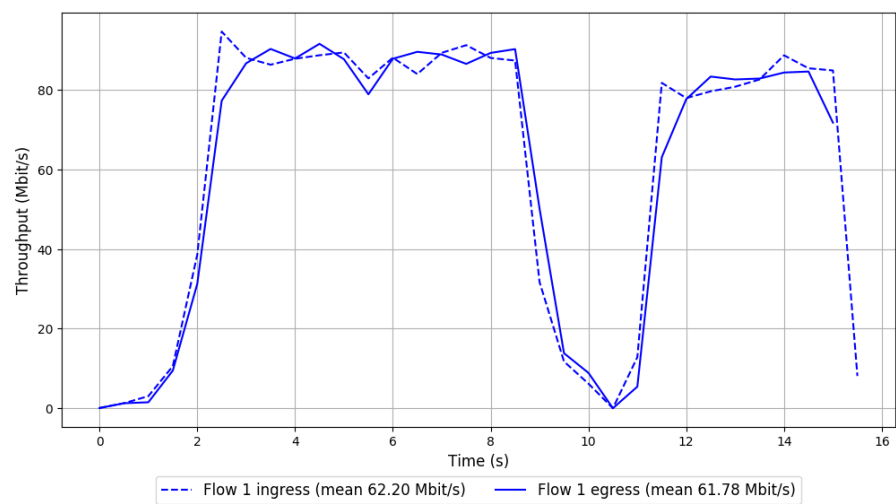


Run 4: Statistics of QUIC Cubic

Start at: 2018-01-31 01:41:41

End at: 2018-01-31 01:42:11

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-31 01:56:17

End at: 2018-01-31 01:56:47

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.71 Mbit/s

95th percentile per-packet one-way delay: 163.277 ms

Loss rate: 1.26%

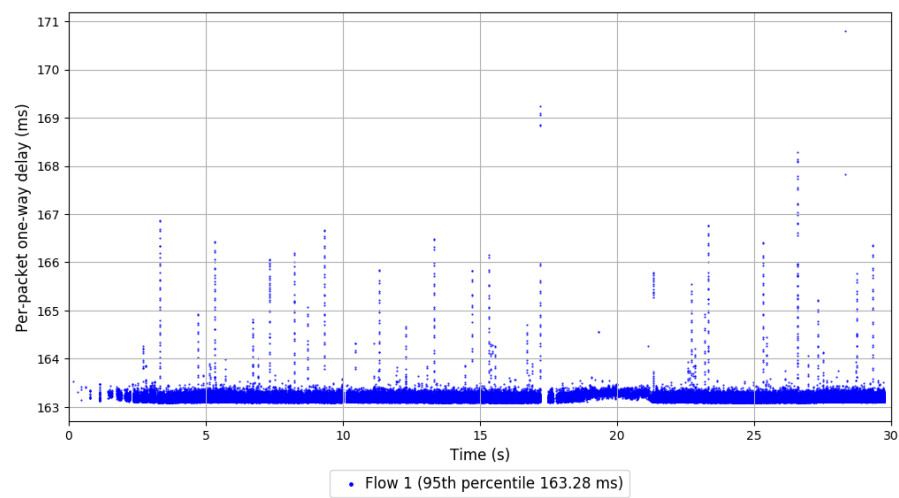
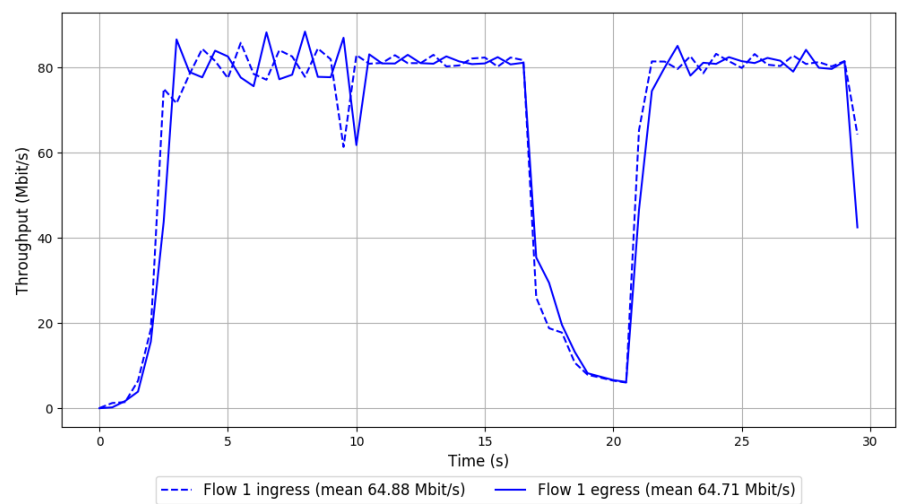
-- Flow 1:

Average throughput: 64.71 Mbit/s

95th percentile per-packet one-way delay: 163.277 ms

Loss rate: 1.26%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-31 02:11:58

End at: 2018-01-31 02:12:28

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.08 Mbit/s

95th percentile per-packet one-way delay: 163.393 ms

Loss rate: 1.19%

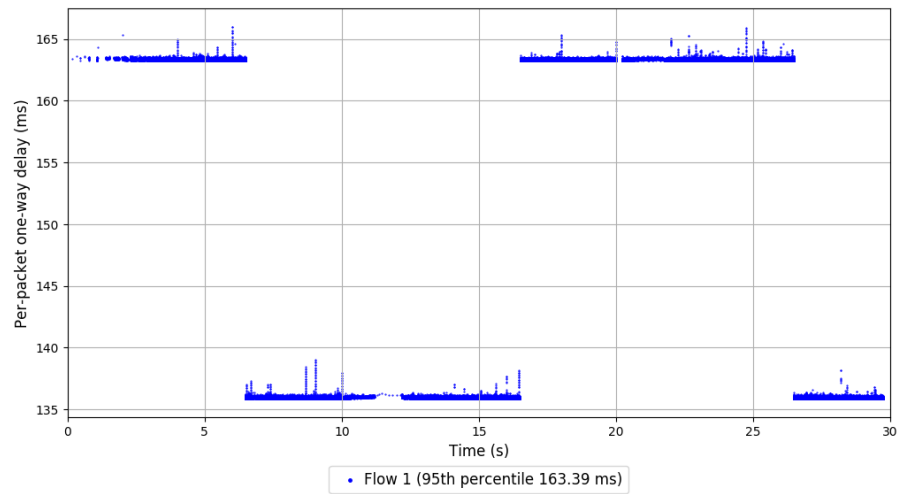
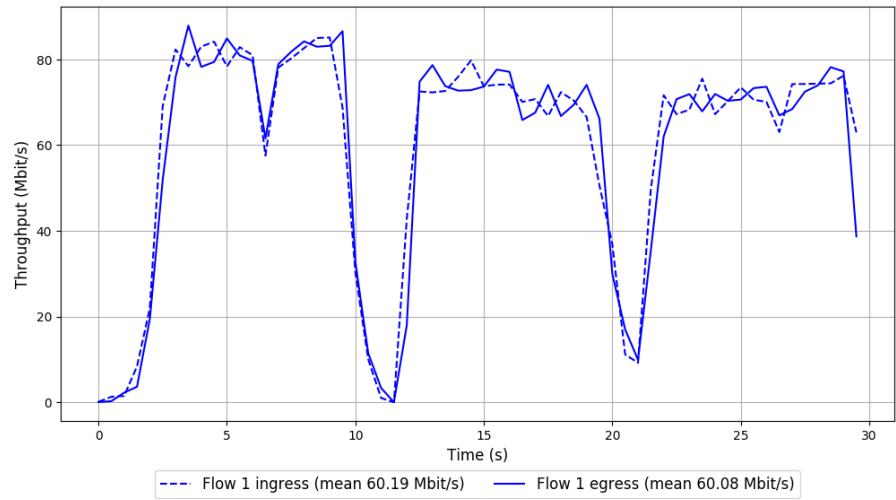
-- Flow 1:

Average throughput: 60.08 Mbit/s

95th percentile per-packet one-way delay: 163.393 ms

Loss rate: 1.19%

Run 6: Report of QUIC Cubic — Data Link

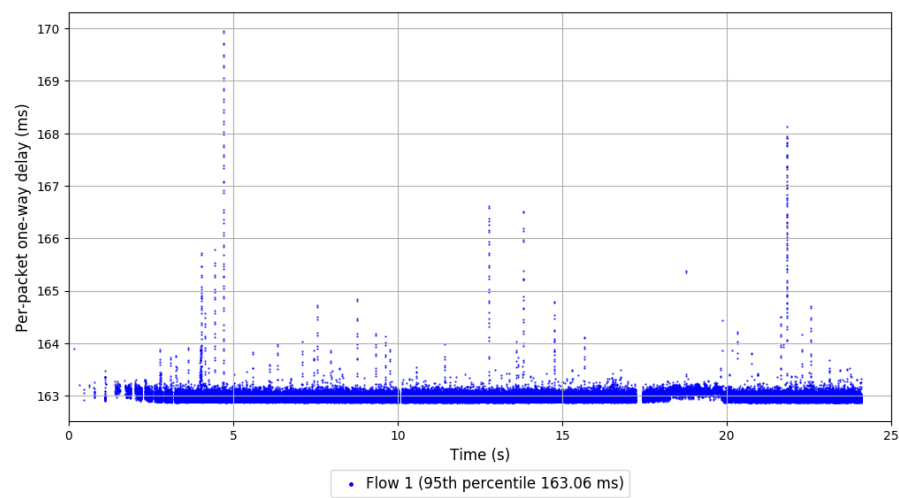
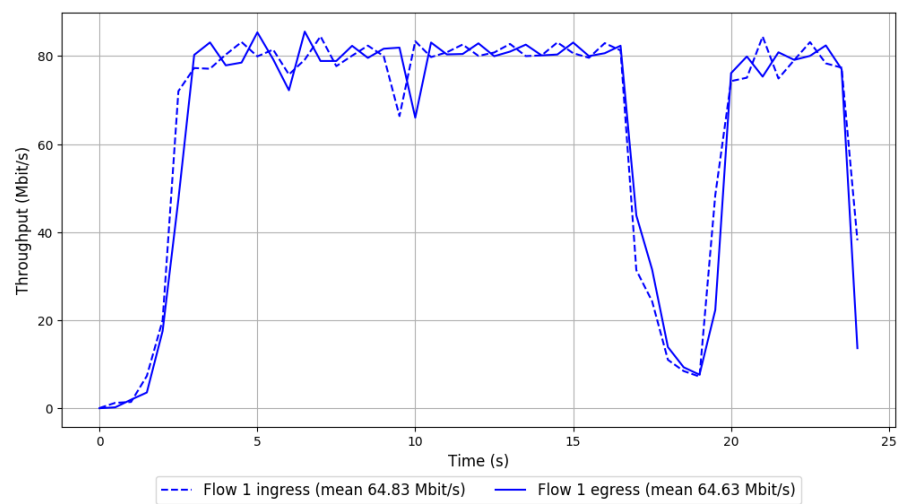


Run 7: Statistics of QUIC Cubic

Start at: 2018-01-31 02:27:32

End at: 2018-01-31 02:28:02

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-31 02:42:45

End at: 2018-01-31 02:43:15

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.67 Mbit/s

95th percentile per-packet one-way delay: 163.037 ms

Loss rate: 1.19%

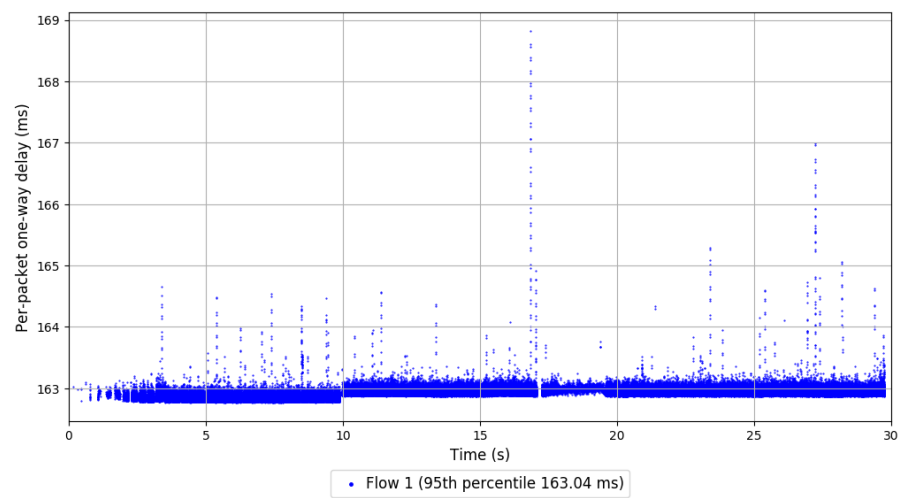
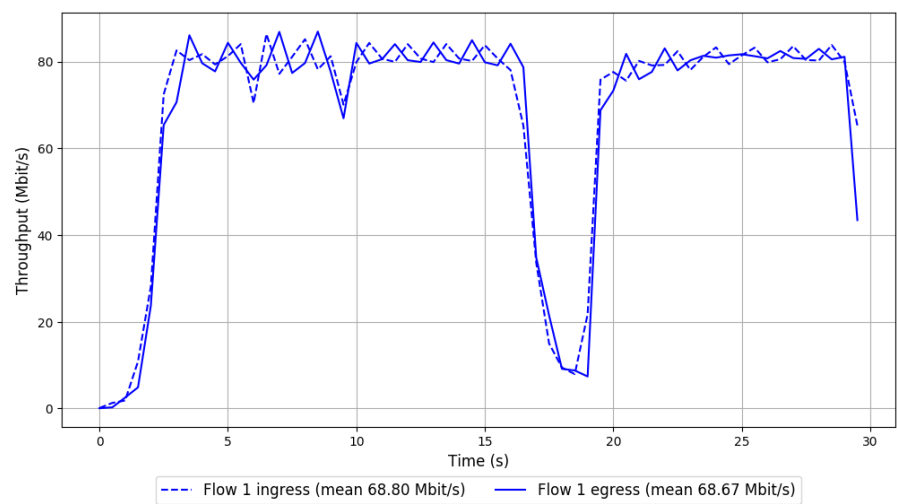
-- Flow 1:

Average throughput: 68.67 Mbit/s

95th percentile per-packet one-way delay: 163.037 ms

Loss rate: 1.19%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-31 02:57:43

End at: 2018-01-31 02:58:14

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.06 Mbit/s

95th percentile per-packet one-way delay: 162.101 ms

Loss rate: 1.18%

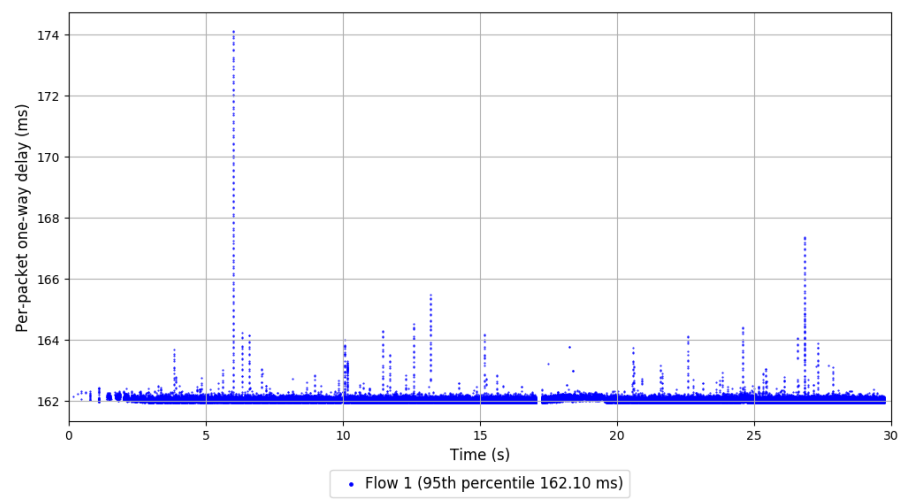
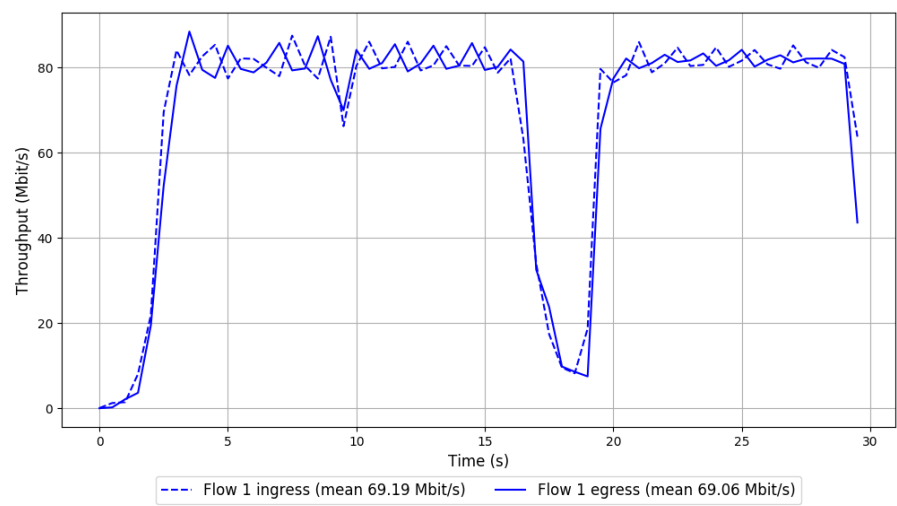
-- Flow 1:

Average throughput: 69.06 Mbit/s

95th percentile per-packet one-way delay: 162.101 ms

Loss rate: 1.18%

Run 9: Report of QUIC Cubic — Data Link

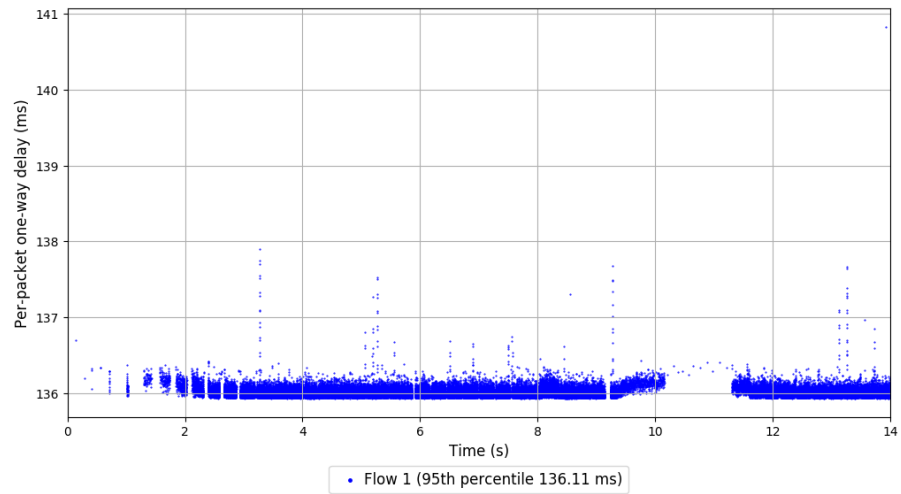
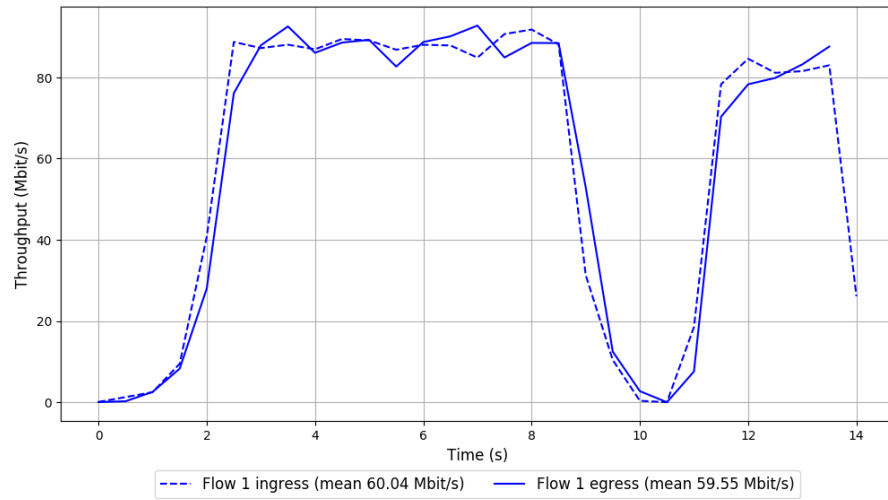


Run 10: Statistics of QUIC Cubic

Start at: 2018-01-31 03:12:25

End at: 2018-01-31 03:12:55

Run 10: Report of QUIC Cubic — Data Link

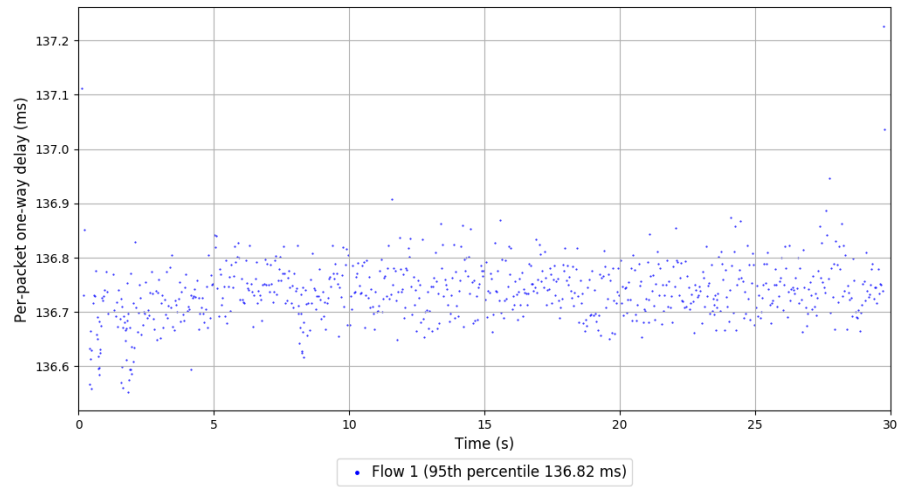
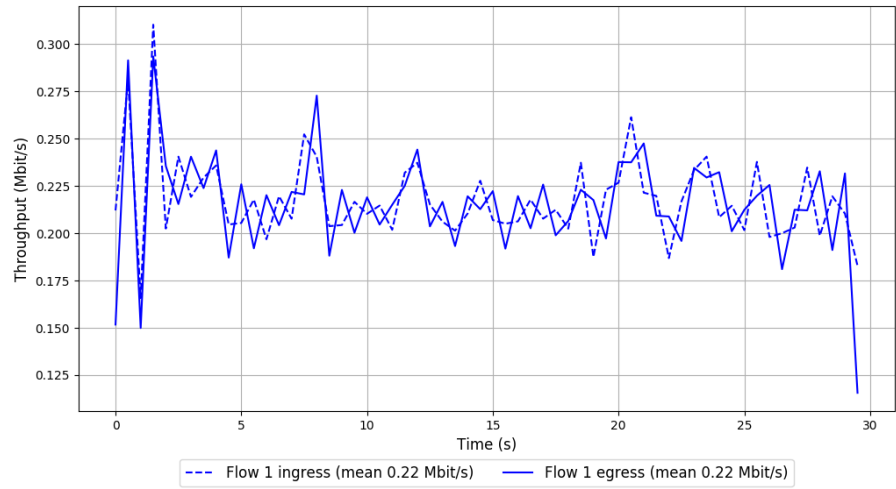


```
Run 1: Statistics of SCReAM

Start at: 2018-01-31 00:54:55
End at: 2018-01-31 00:55:25

# Below is generated by plot.py at 2018-01-31 06:07:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.822 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.822 ms
Loss rate: 0.89%
```

Run 1: Report of SReAM — Data Link

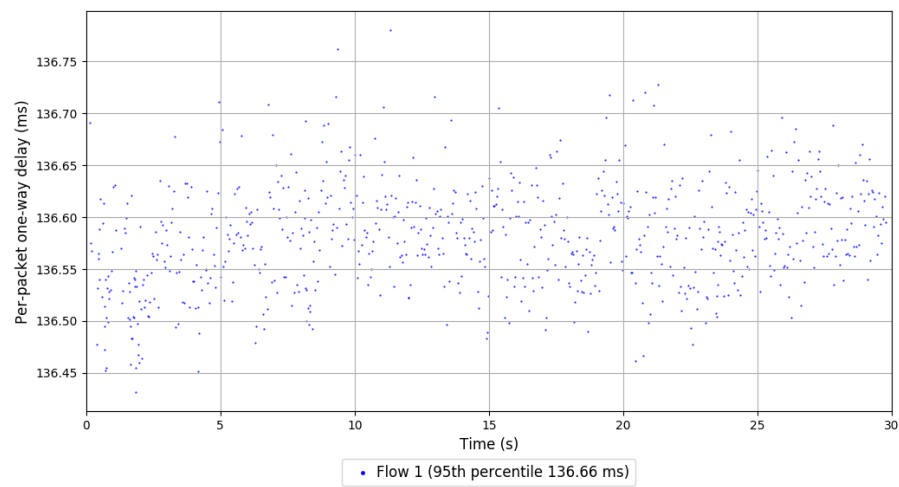
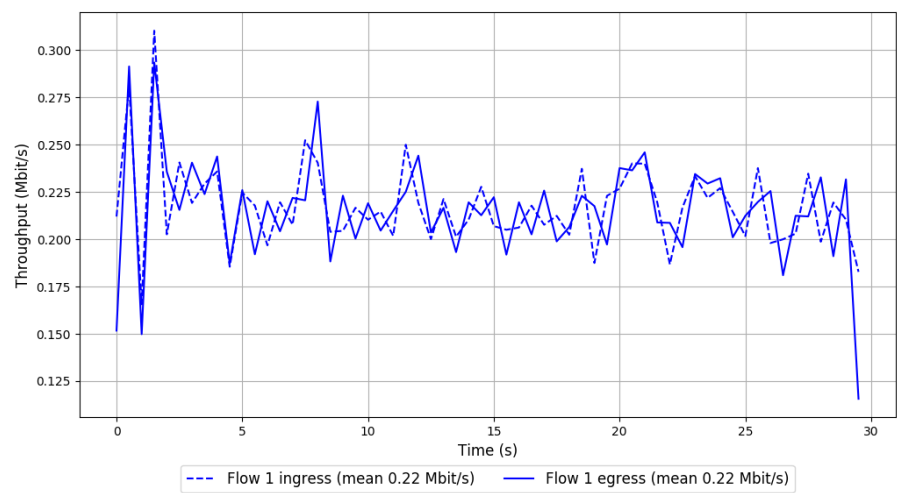


```
Run 2: Statistics of SCReAM

Start at: 2018-01-31 01:10:17
End at: 2018-01-31 01:10:47

# Below is generated by plot.py at 2018-01-31 06:07:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.664 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.664 ms
Loss rate: 0.89%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-31 01:25:09

End at: 2018-01-31 01:25:39

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.387 ms

Loss rate: 0.89%

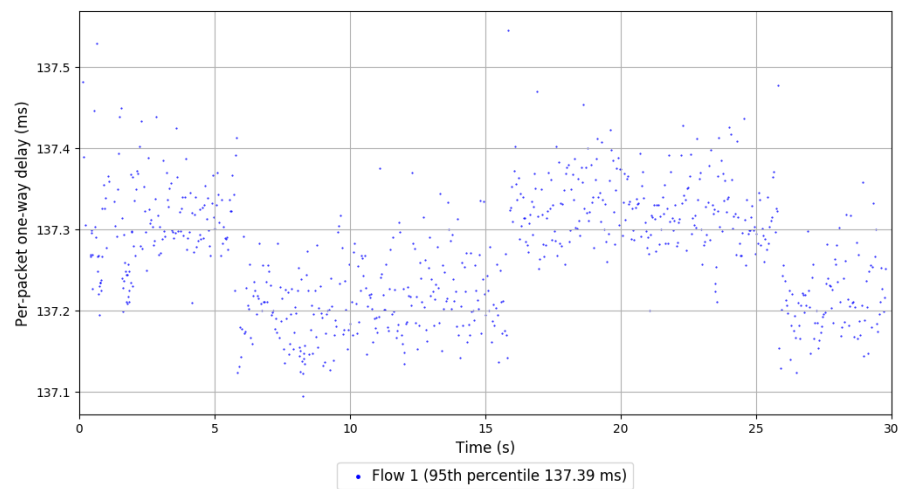
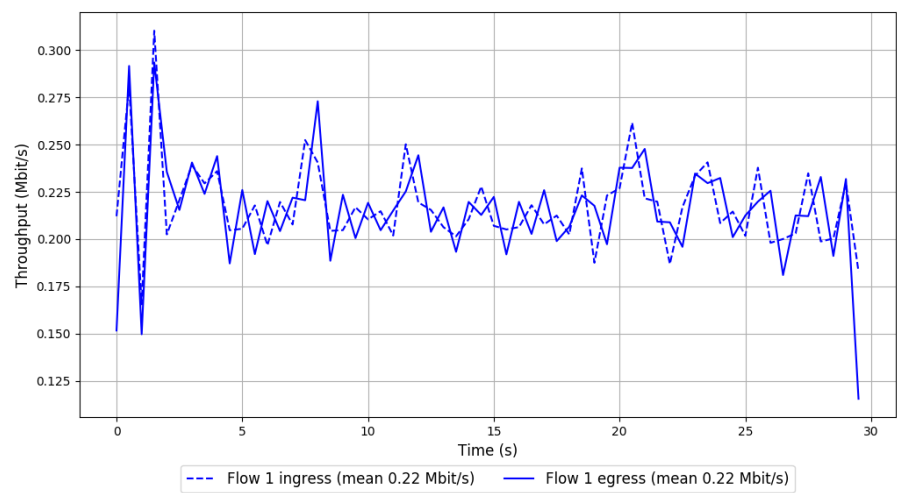
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.387 ms

Loss rate: 0.89%

Run 3: Report of SCRaM — Data Link

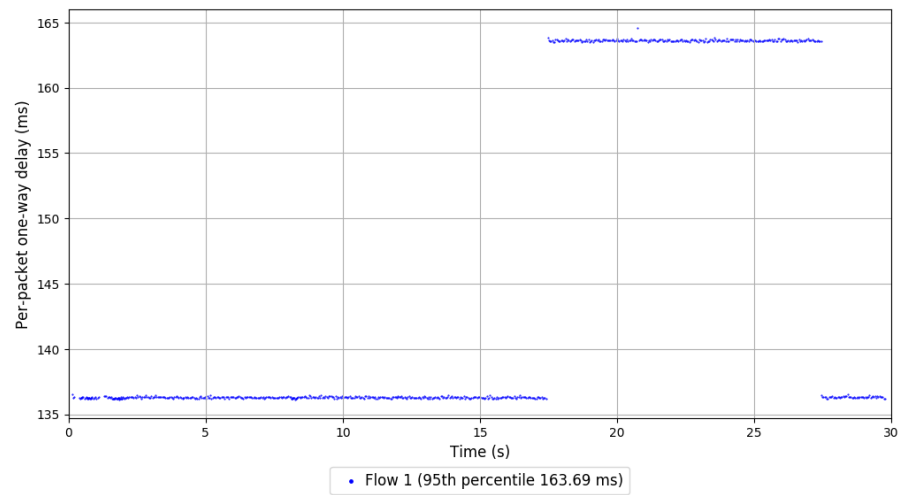
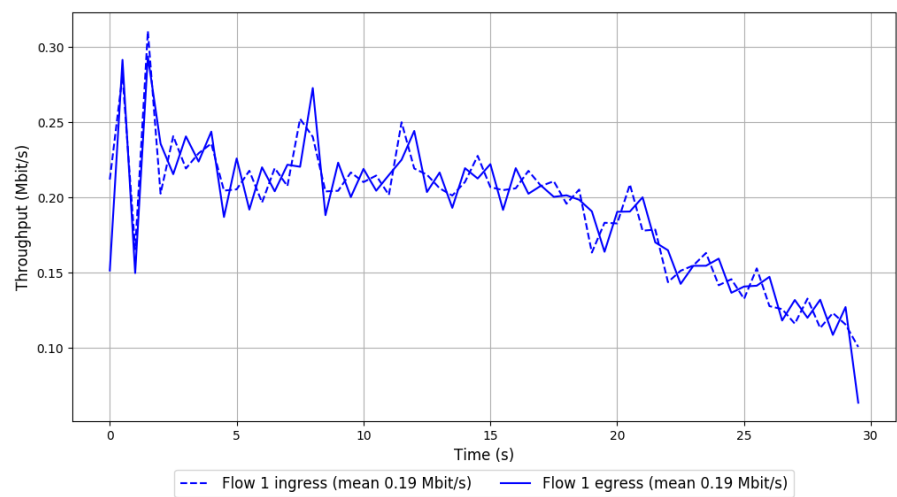


```
Run 4: Statistics of SCReAM

Start at: 2018-01-31 01:39:27
End at: 2018-01-31 01:39:57

# Below is generated by plot.py at 2018-01-31 06:07:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 163.686 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 163.686 ms
Loss rate: 0.56%
```

Run 4: Report of SReAM — Data Link

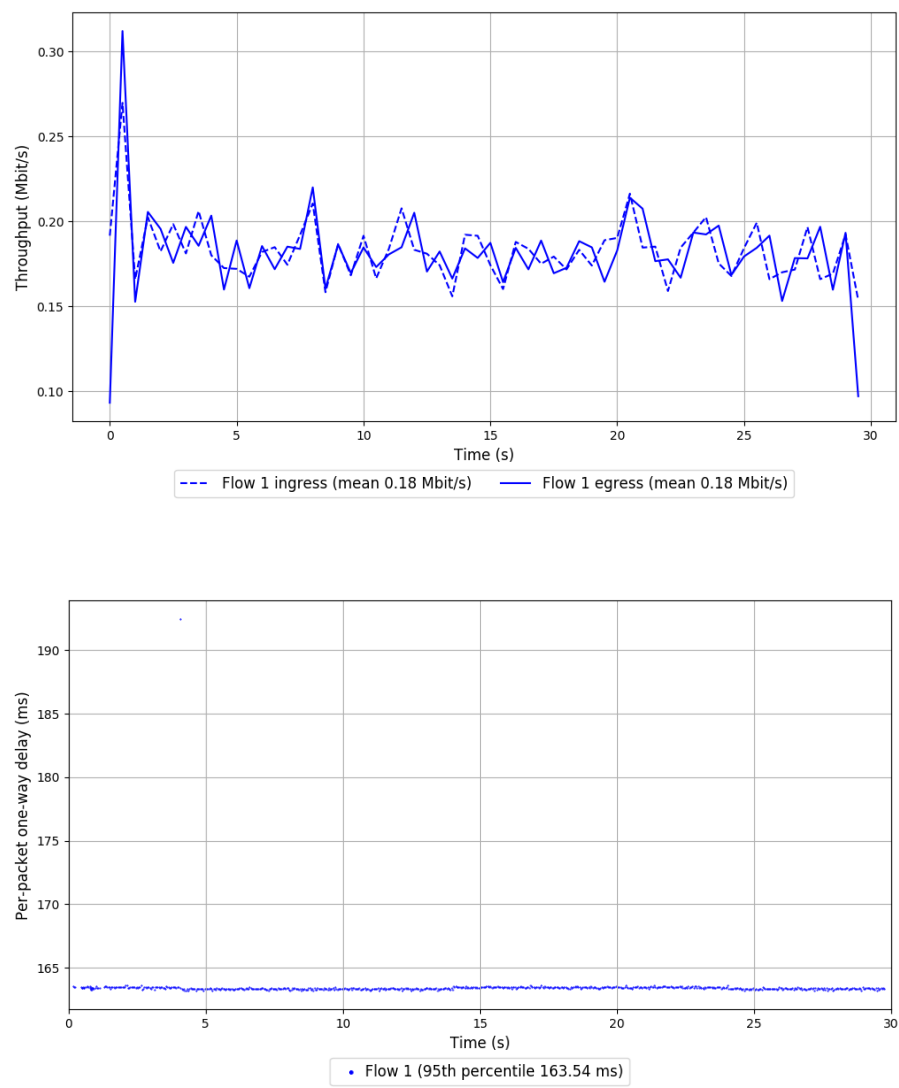


```
Run 5: Statistics of SCReAM

Start at: 2018-01-31 01:54:01
End at: 2018-01-31 01:54:31

# Below is generated by plot.py at 2018-01-31 06:07:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 163.543 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 163.543 ms
Loss rate: 1.03%
```

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-31 02:09:44

End at: 2018-01-31 02:10:14

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 163.339 ms

Loss rate: 0.78%

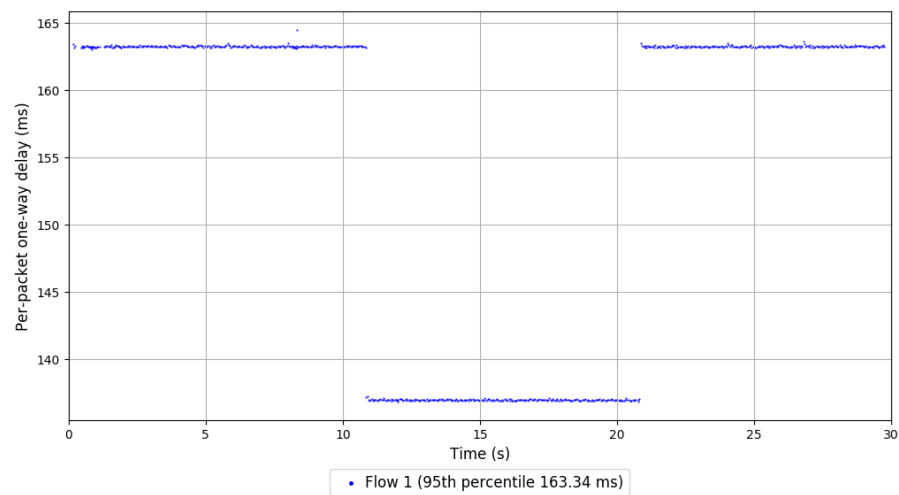
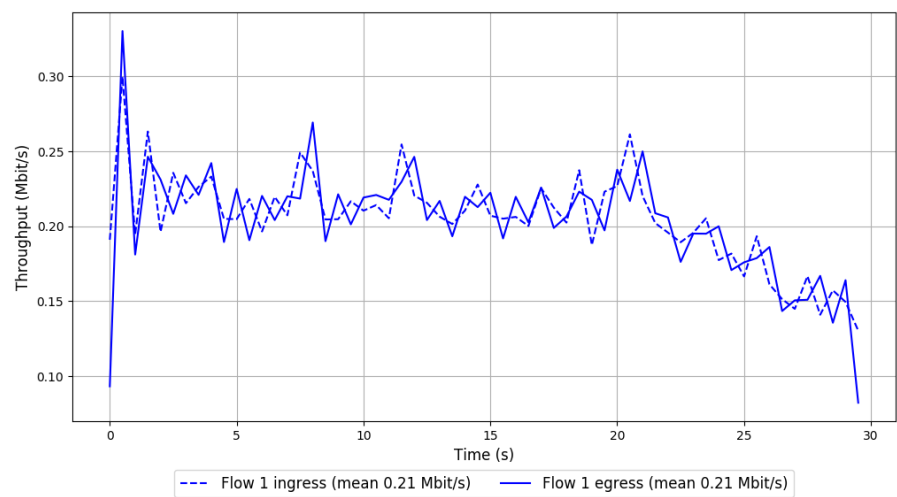
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 163.339 ms

Loss rate: 0.78%

Run 6: Report of SReAM — Data Link

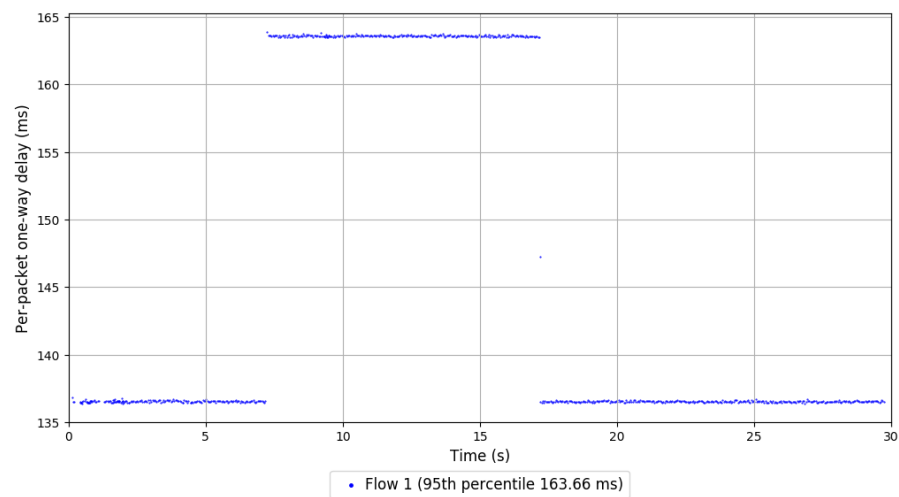
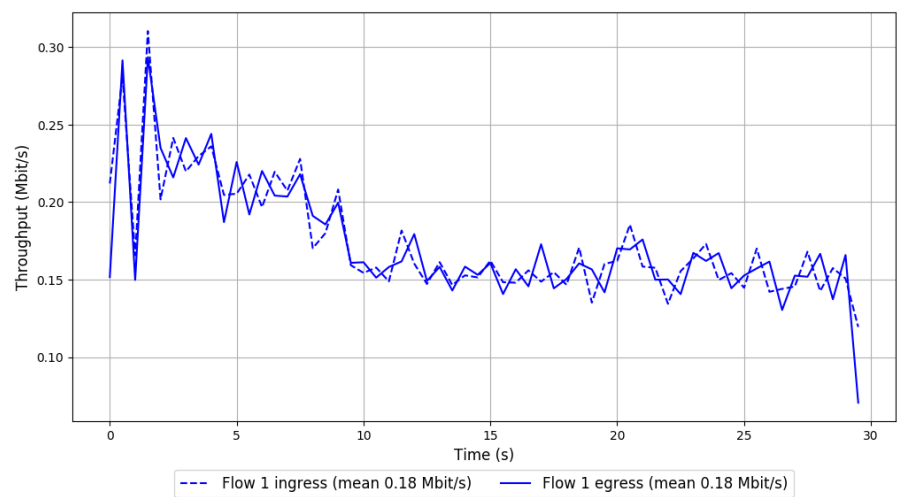


```
Run 7: Statistics of SCReAM

Start at: 2018-01-31 02:25:17
End at: 2018-01-31 02:25:47

# Below is generated by plot.py at 2018-01-31 06:07:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 163.655 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 163.655 ms
Loss rate: 0.81%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-31 02:40:32

End at: 2018-01-31 02:41:02

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 163.229 ms

Loss rate: 0.86%

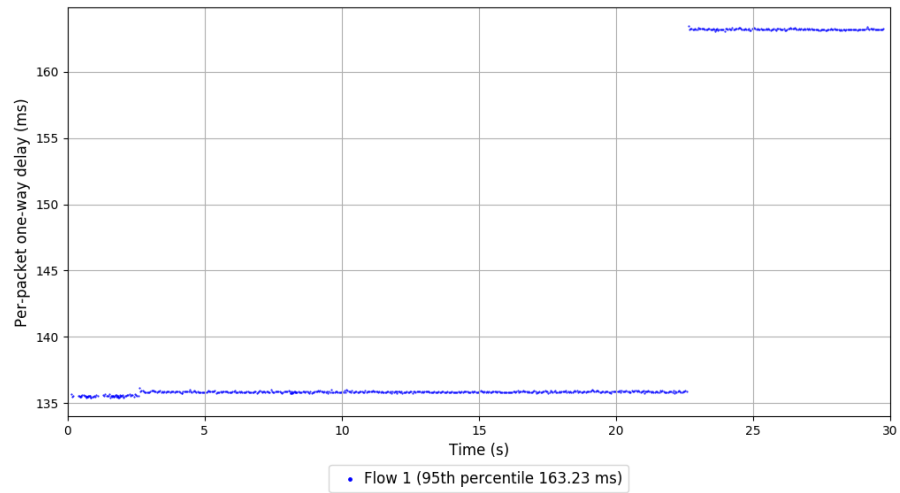
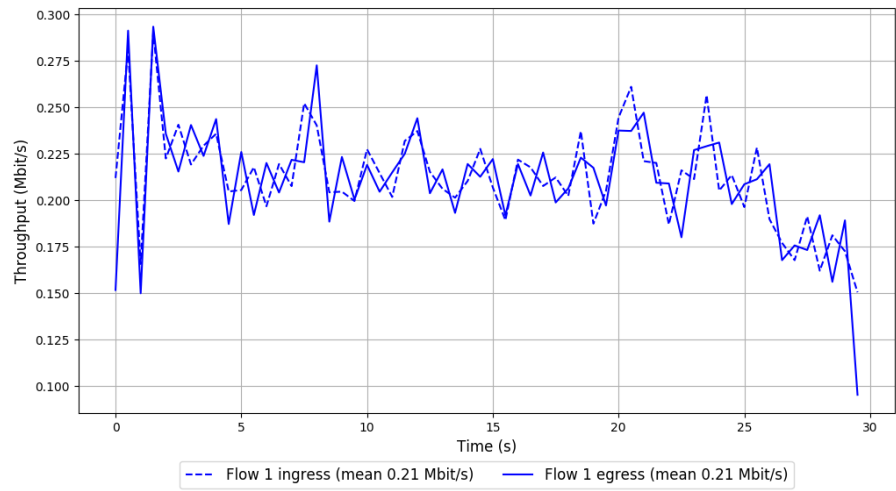
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 163.229 ms

Loss rate: 0.86%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-31 02:55:28

End at: 2018-01-31 02:55:58

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 162.380 ms

Loss rate: 0.80%

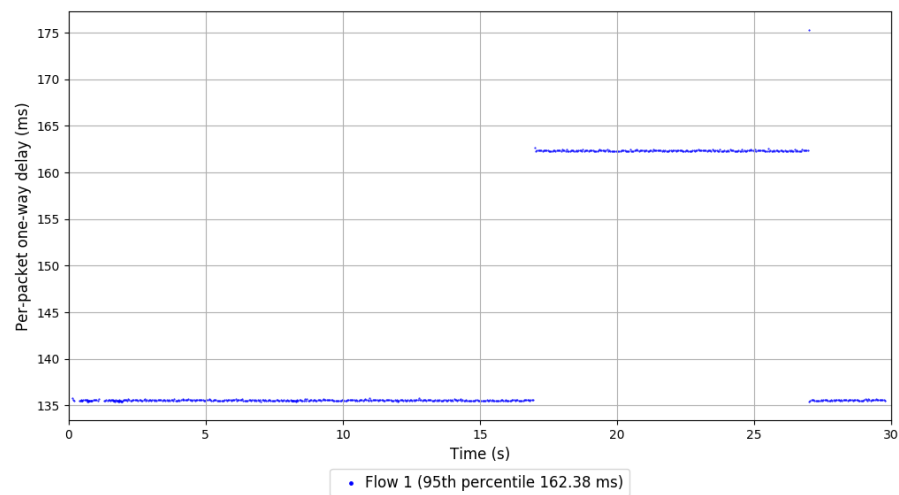
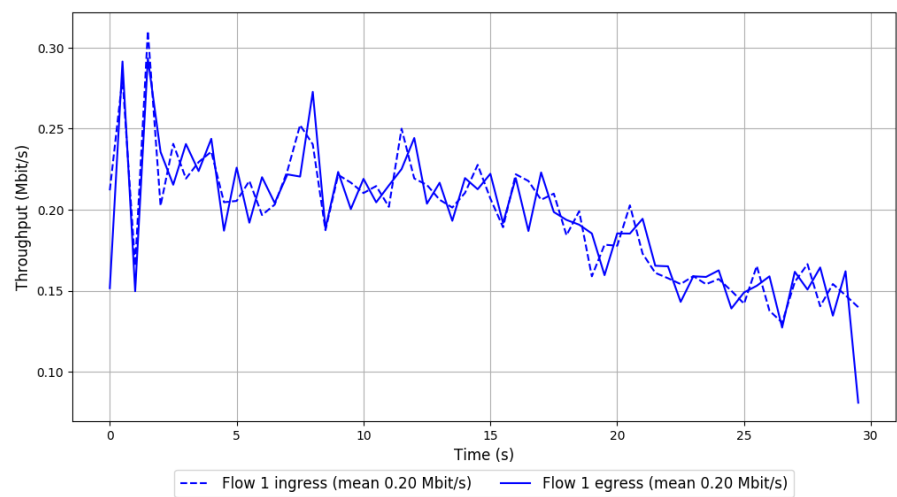
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 162.380 ms

Loss rate: 0.80%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-01-31 03:10:13

End at: 2018-01-31 03:10:43

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 162.406 ms

Loss rate: 0.82%

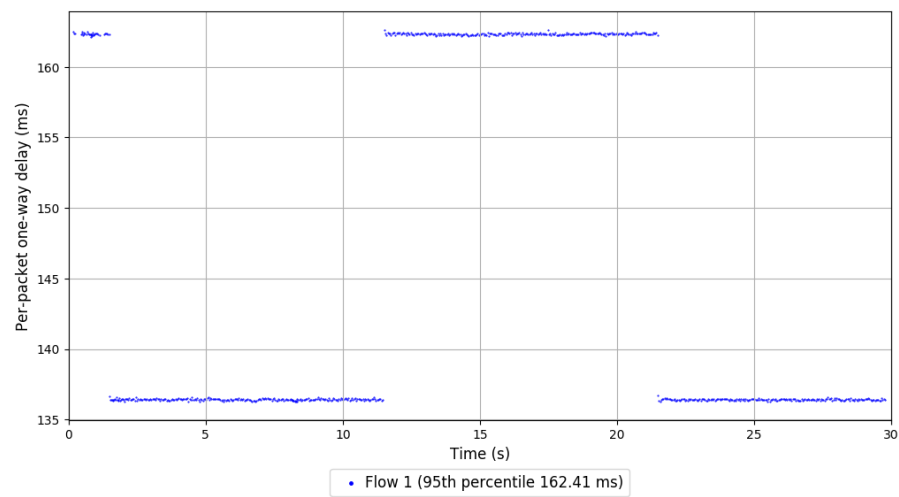
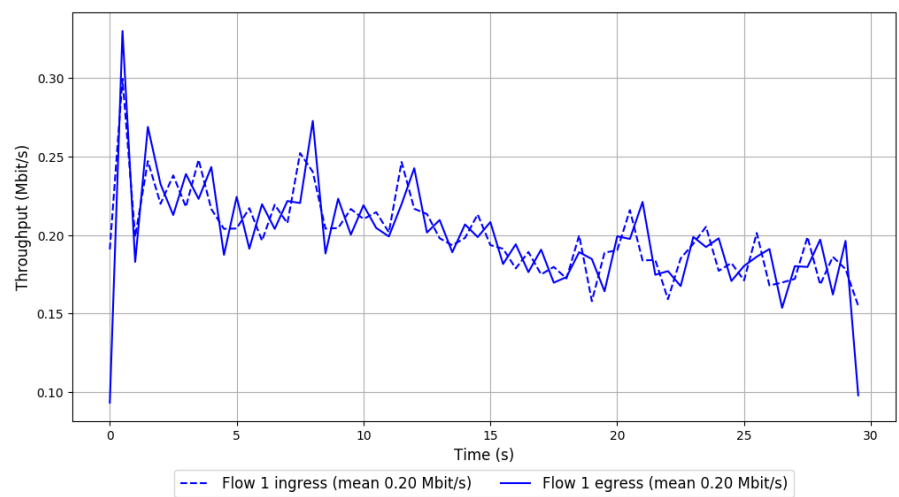
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 162.406 ms

Loss rate: 0.82%

Run 10: Report of SReAM — Data Link

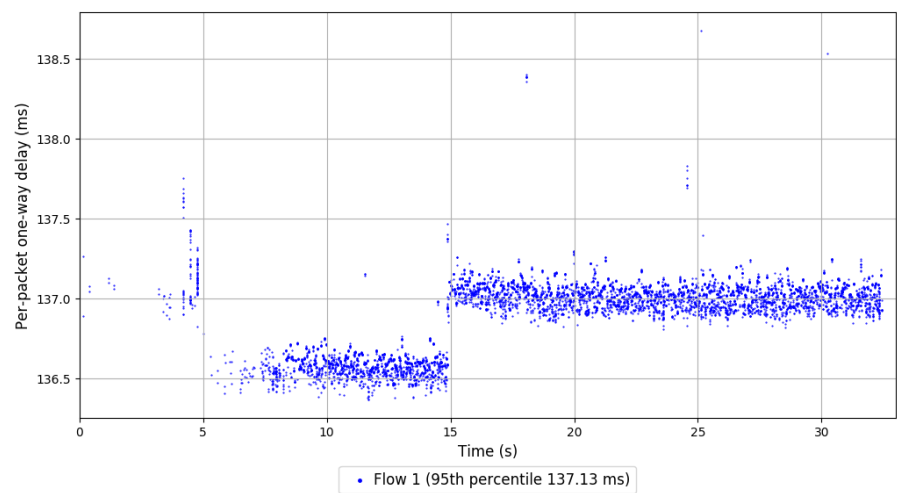
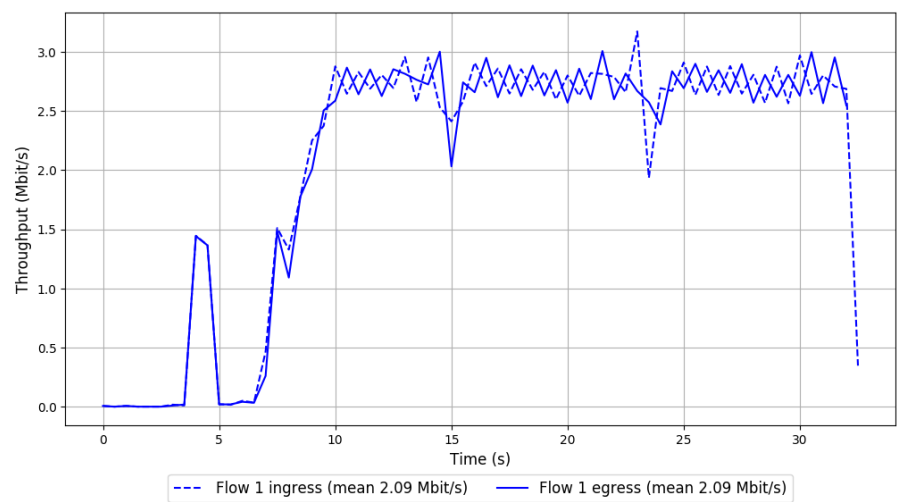


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-31 00:54:12
End at: 2018-01-31 00:54:42

# Below is generated by plot.py at 2018-01-31 06:07:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.09 Mbit/s
95th percentile per-packet one-way delay: 137.130 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 2.09 Mbit/s
95th percentile per-packet one-way delay: 137.130 ms
Loss rate: 0.82%
```


Run 1: Report of WebRTC media — Data Link

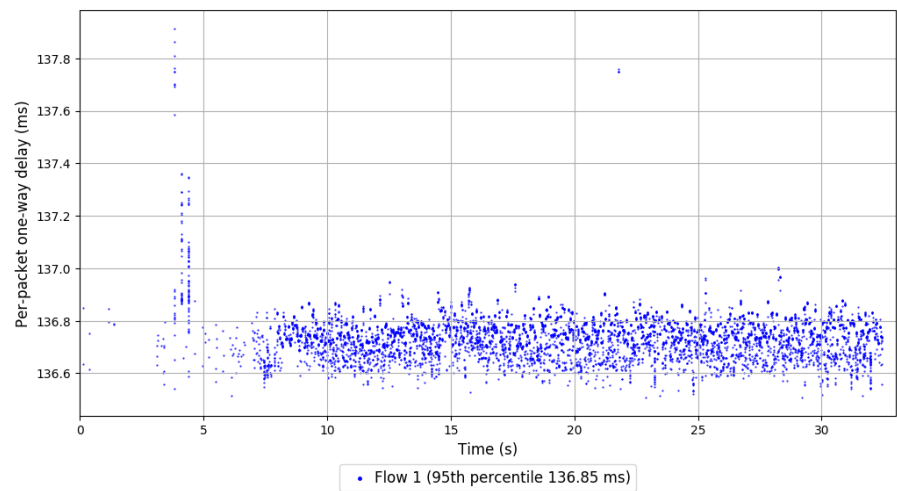
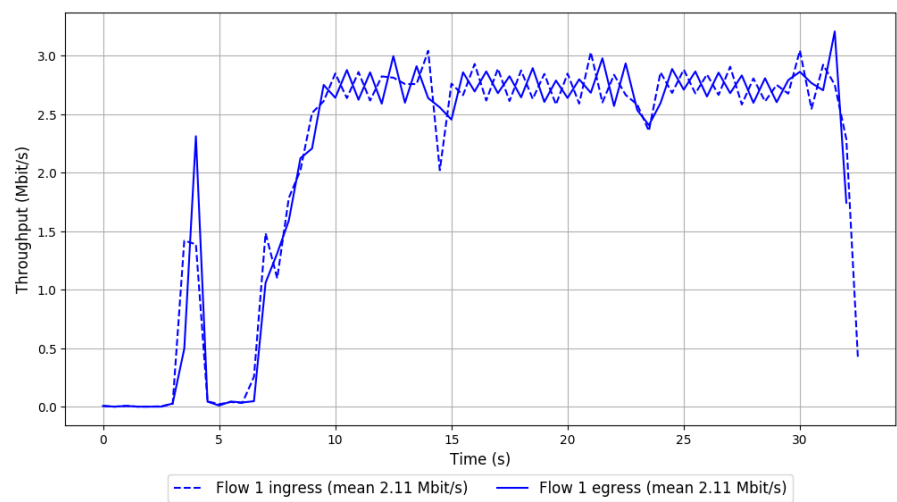


```
Run 2: Statistics of WebRTC media

Start at: 2018-01-31 01:09:35
End at: 2018-01-31 01:10:05

# Below is generated by plot.py at 2018-01-31 06:07:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 136.850 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 136.850 ms
Loss rate: 0.99%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-31 01:24:26

End at: 2018-01-31 01:24:56

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 163.483 ms

Loss rate: 0.79%

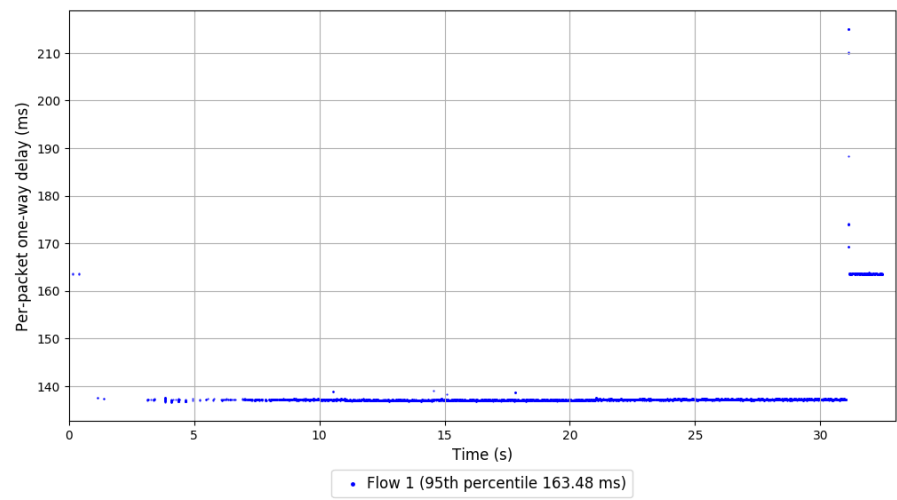
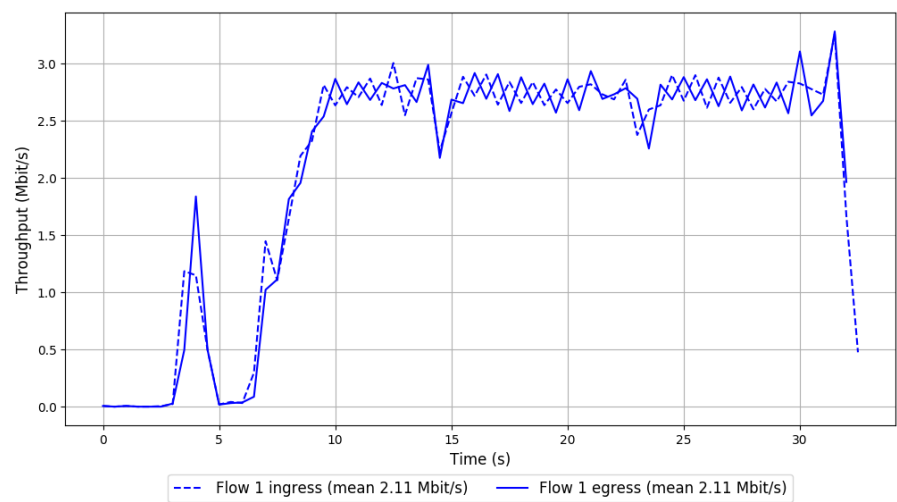
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 163.483 ms

Loss rate: 0.79%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-31 01:38:44

End at: 2018-01-31 01:39:14

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 137.168 ms

Loss rate: 0.96%

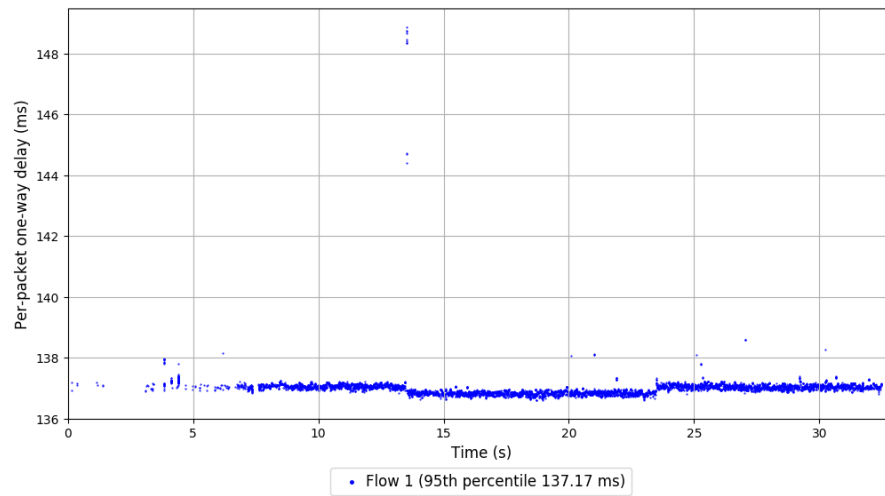
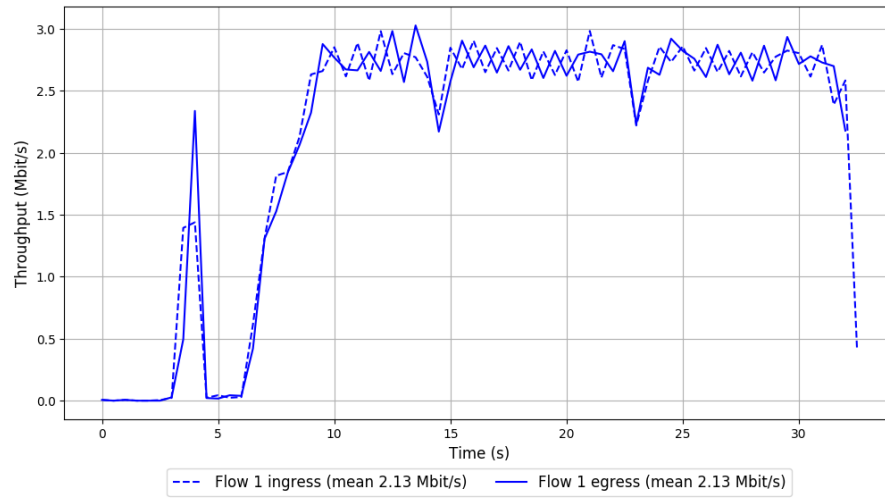
-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 137.168 ms

Loss rate: 0.96%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-31 01:53:18

End at: 2018-01-31 01:53:48

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

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

Loss rate: 1.03%

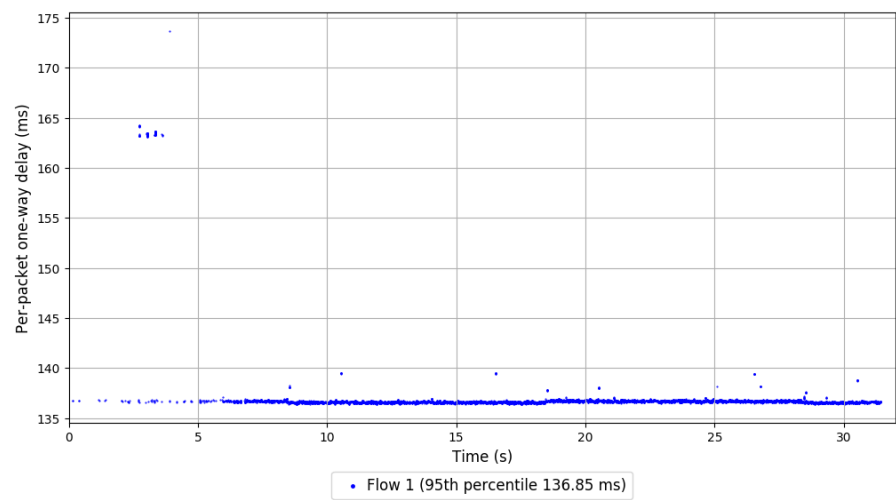
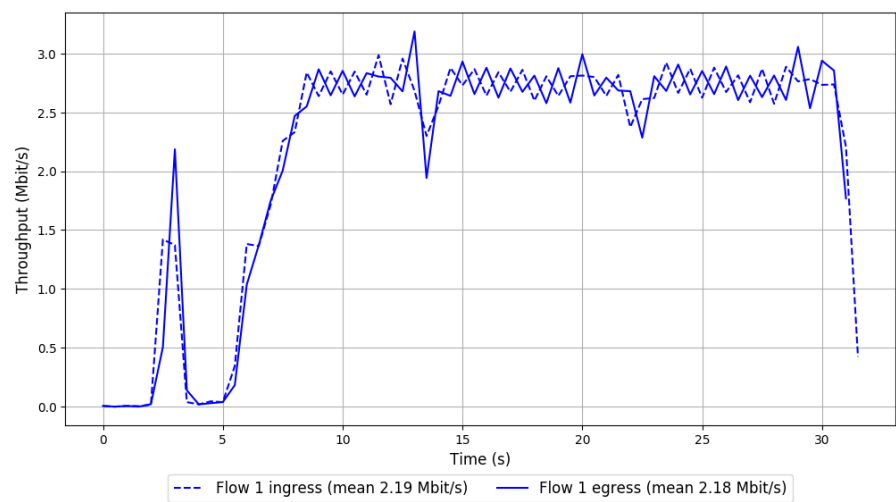
-- Flow 1:

Average throughput: 2.18 Mbit/s

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

Loss rate: 1.03%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-31 02:09:01

End at: 2018-01-31 02:09:31

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 163.382 ms

Loss rate: 0.90%

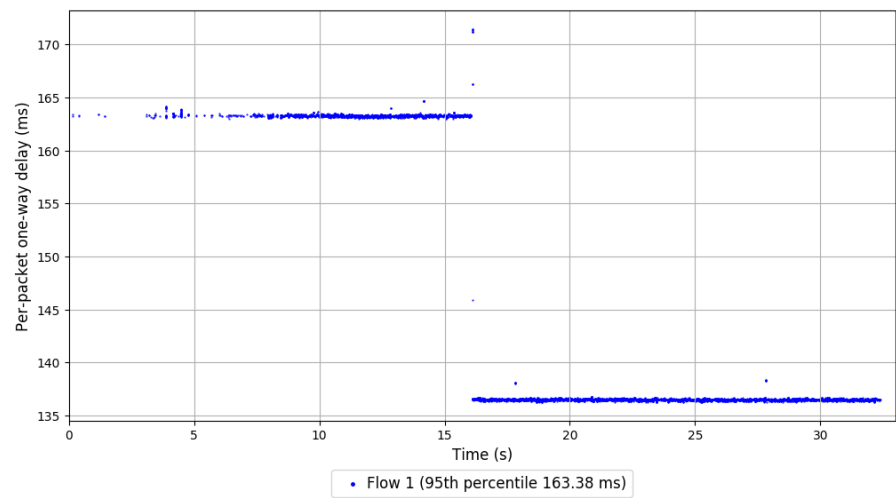
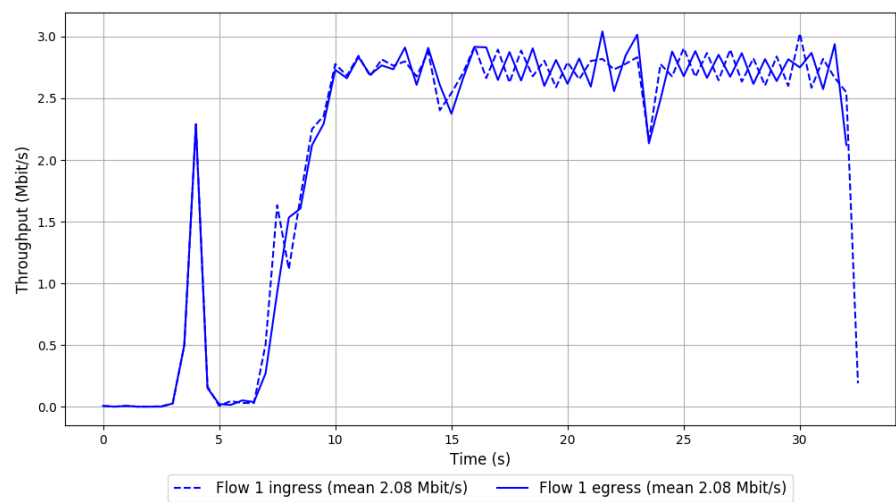
-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 163.382 ms

Loss rate: 0.90%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-31 02:24:34

End at: 2018-01-31 02:25:04

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 163.224 ms

Loss rate: 1.00%

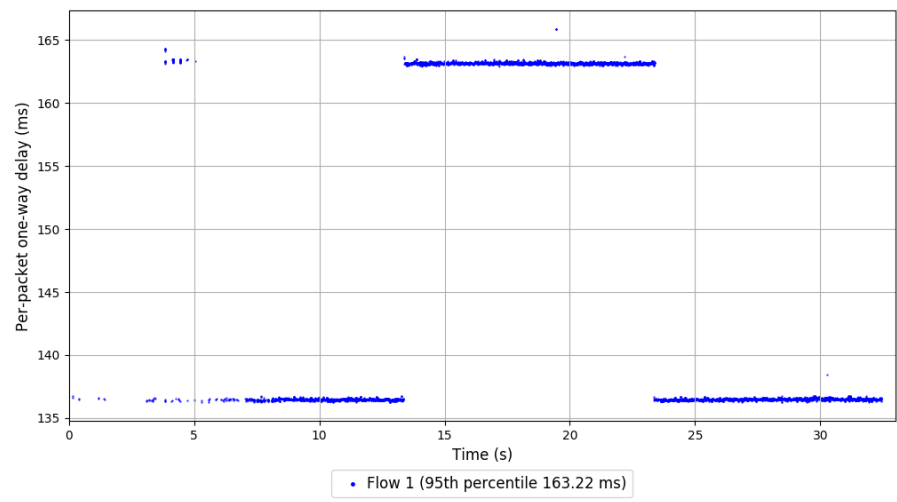
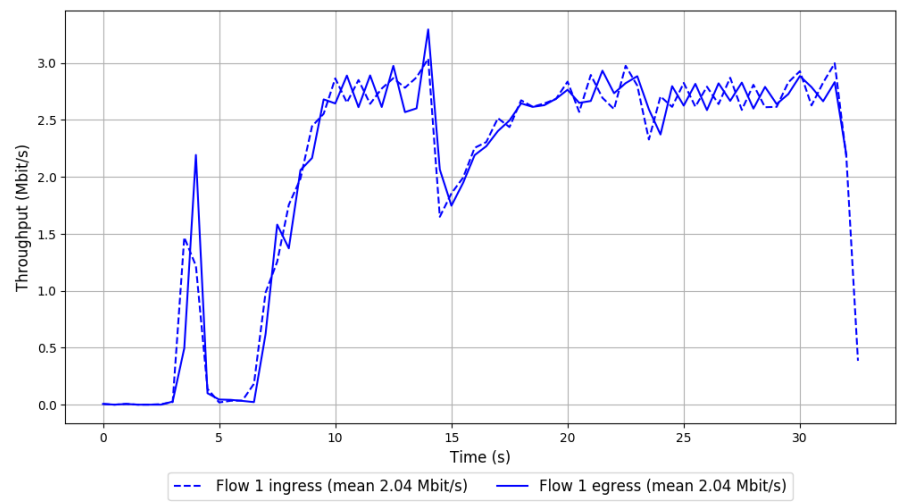
-- Flow 1:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 163.224 ms

Loss rate: 1.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-31 02:39:49

End at: 2018-01-31 02:40:19

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 162.347 ms

Loss rate: 1.07%

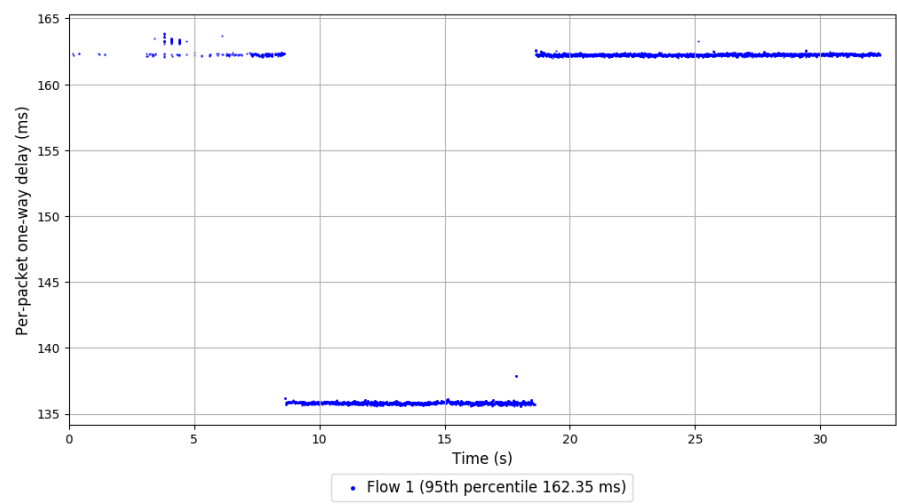
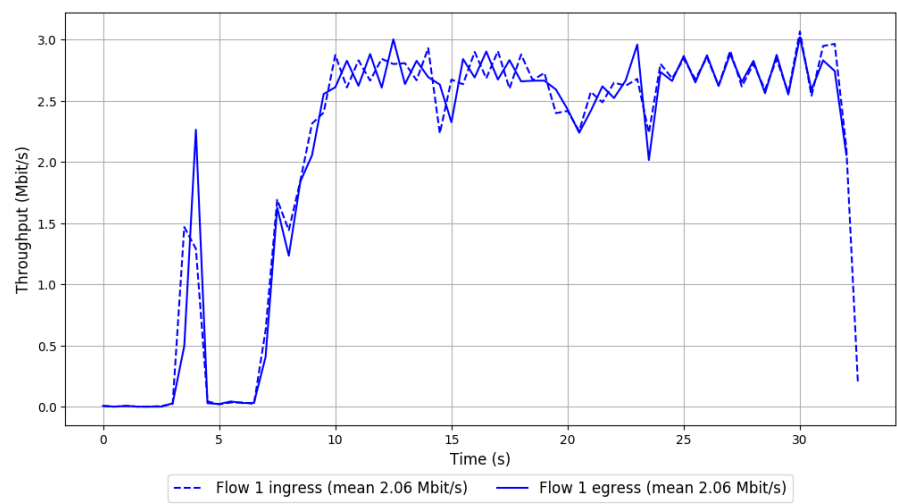
-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 162.347 ms

Loss rate: 1.07%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-31 02:54:44

End at: 2018-01-31 02:55:14

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 162.368 ms

Loss rate: 1.08%

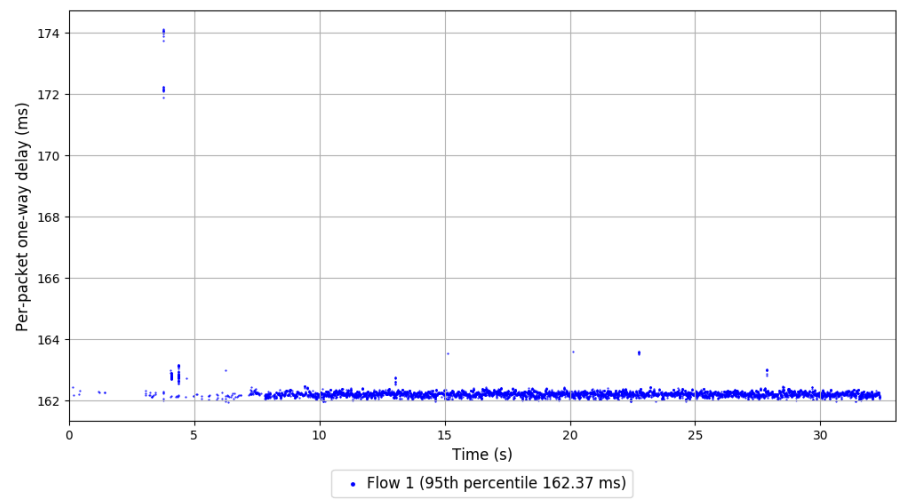
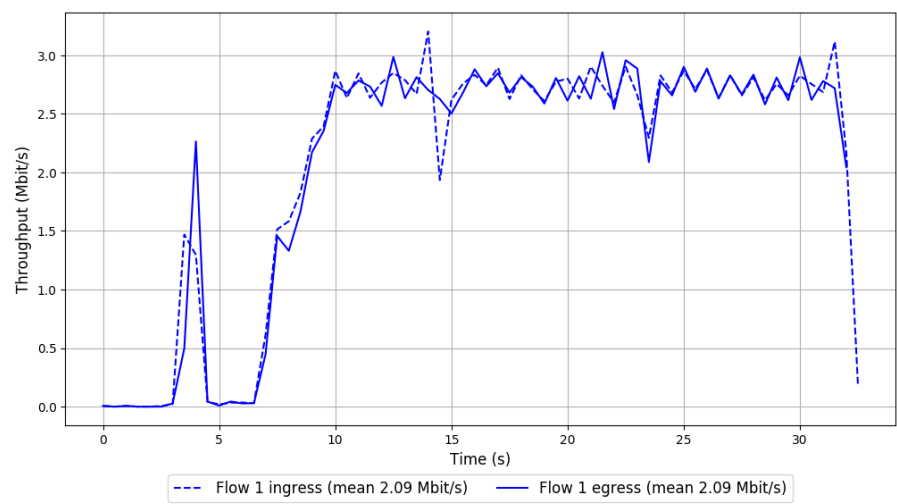
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 162.368 ms

Loss rate: 1.08%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-31 03:09:30

End at: 2018-01-31 03:10:00

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.908 ms

Loss rate: 0.96%

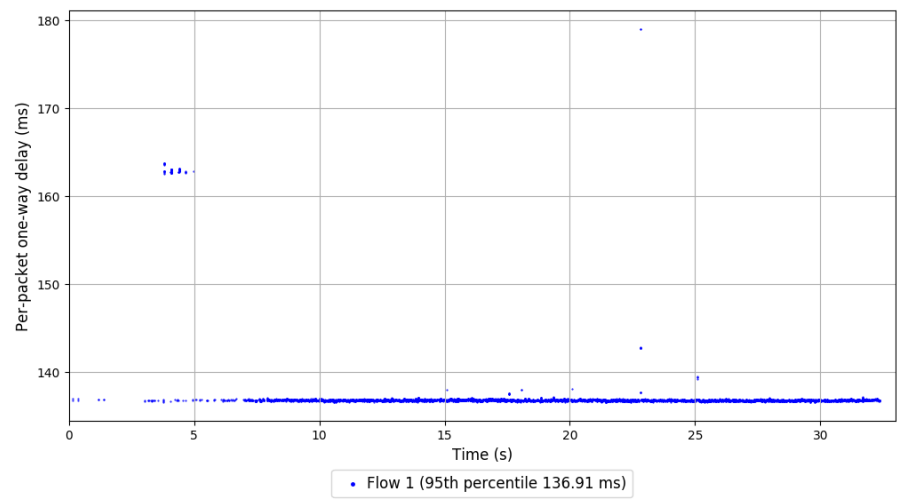
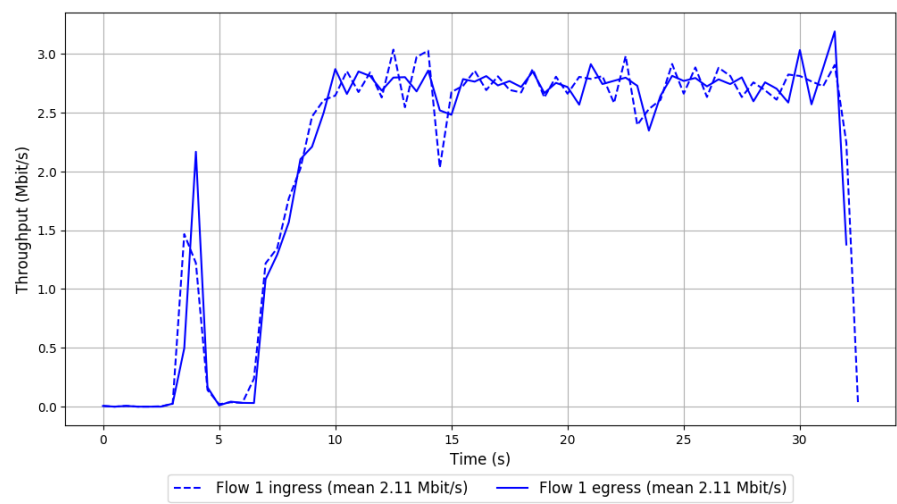
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.908 ms

Loss rate: 0.96%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-31 00:47:24

End at: 2018-01-31 00:47:54

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 137.348 ms

Loss rate: 1.64%

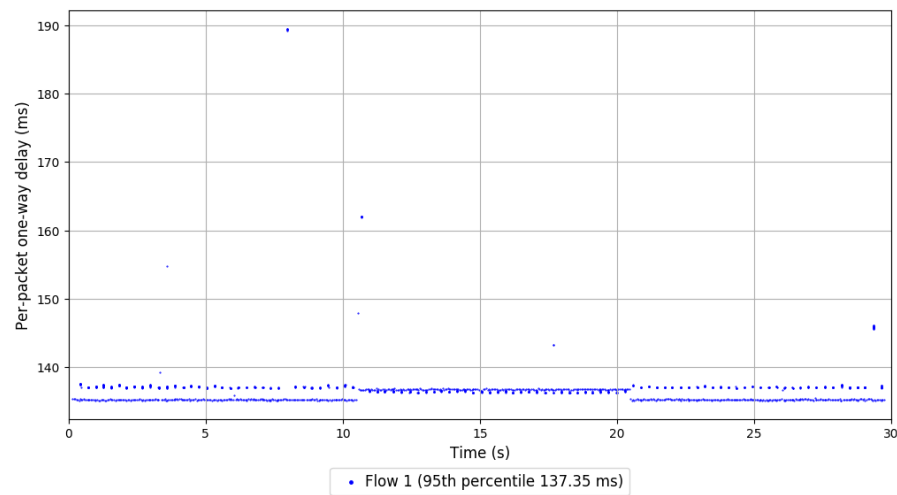
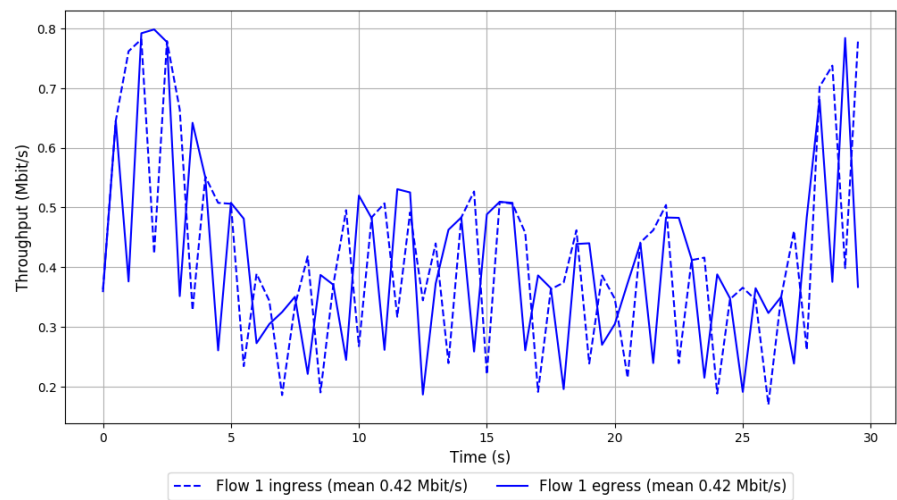
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 137.348 ms

Loss rate: 1.64%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-31 01:02:34

End at: 2018-01-31 01:03:04

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 137.212 ms

Loss rate: 0.87%

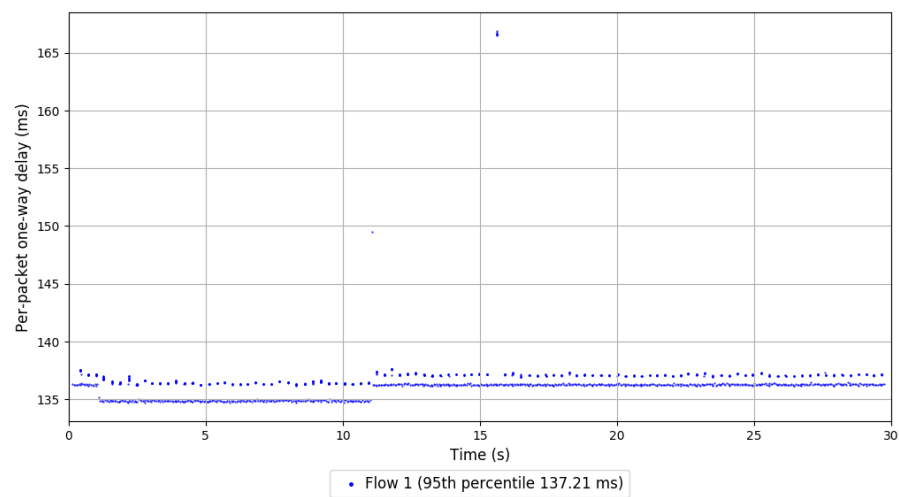
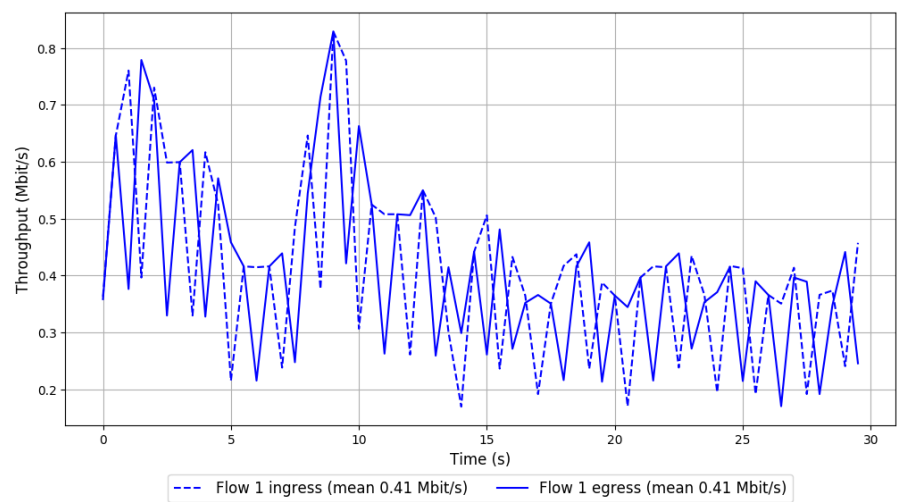
-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 137.212 ms

Loss rate: 0.87%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-31 01:17:35

End at: 2018-01-31 01:18:05

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 163.485 ms

Loss rate: 0.32%

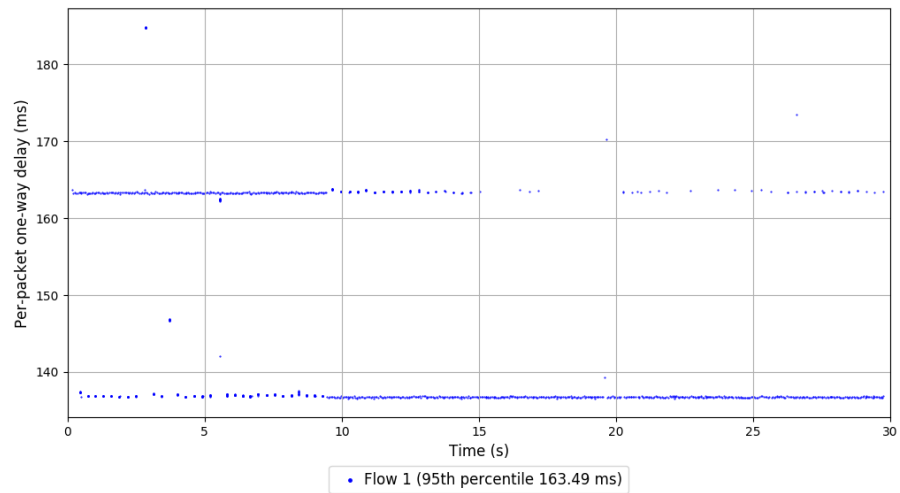
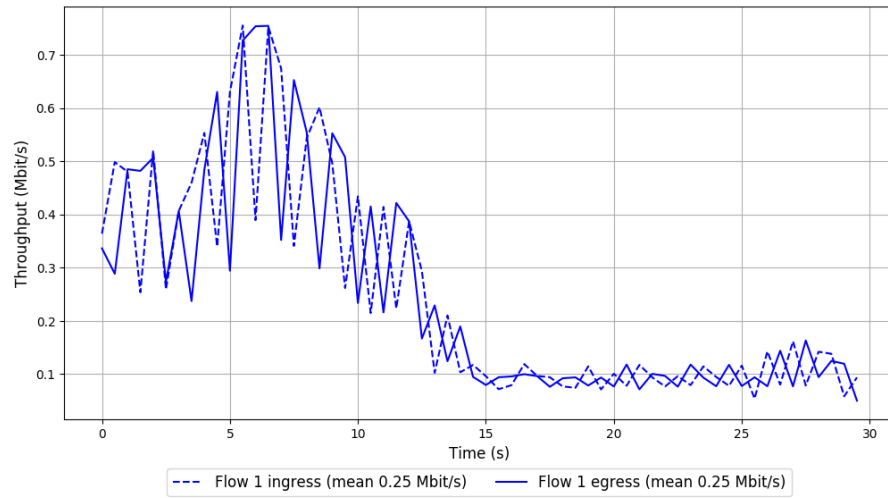
-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 163.485 ms

Loss rate: 0.32%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-31 01:32:01

End at: 2018-01-31 01:32:31

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 163.671 ms

Loss rate: 0.63%

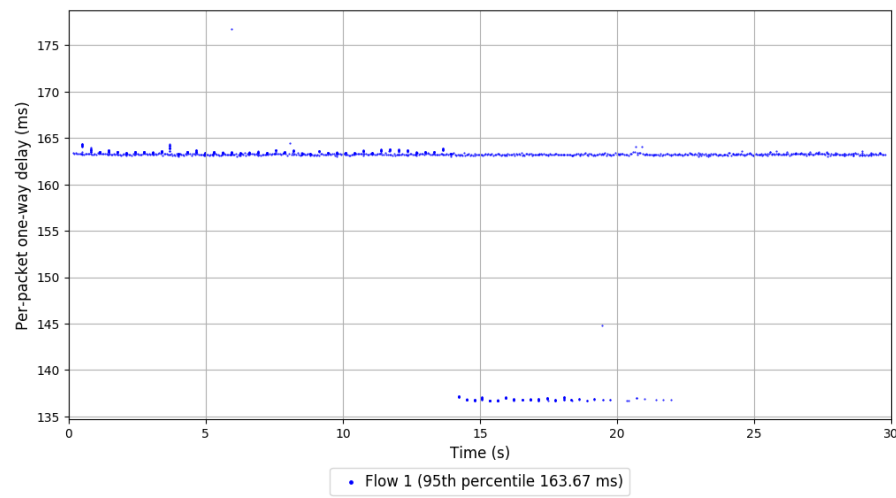
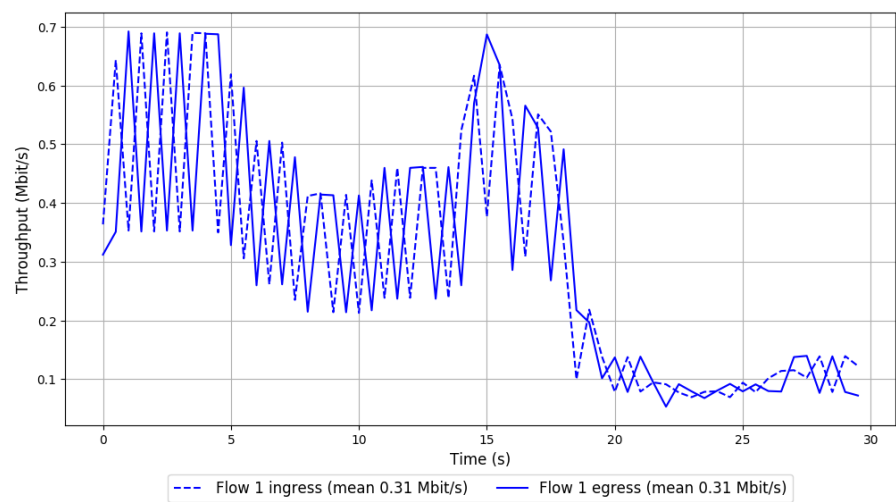
-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 163.671 ms

Loss rate: 0.63%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-31 01:46:49

End at: 2018-01-31 01:47:19

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 163.581 ms

Loss rate: 1.20%

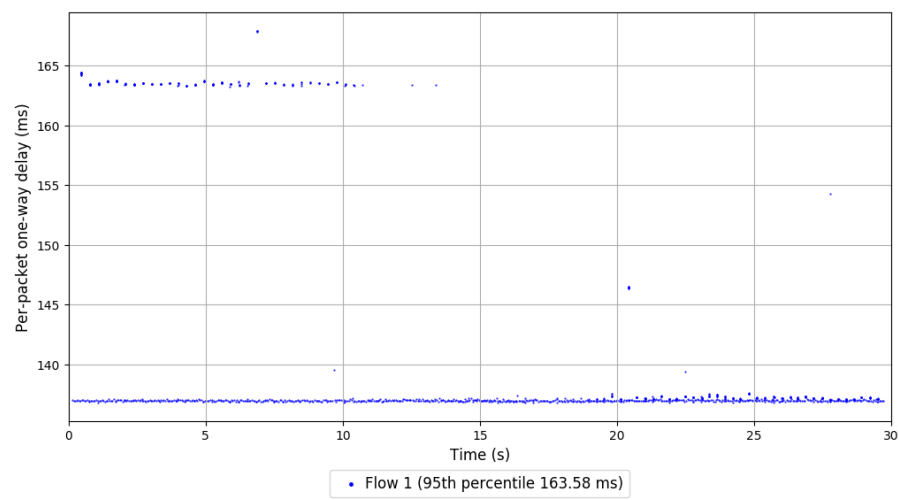
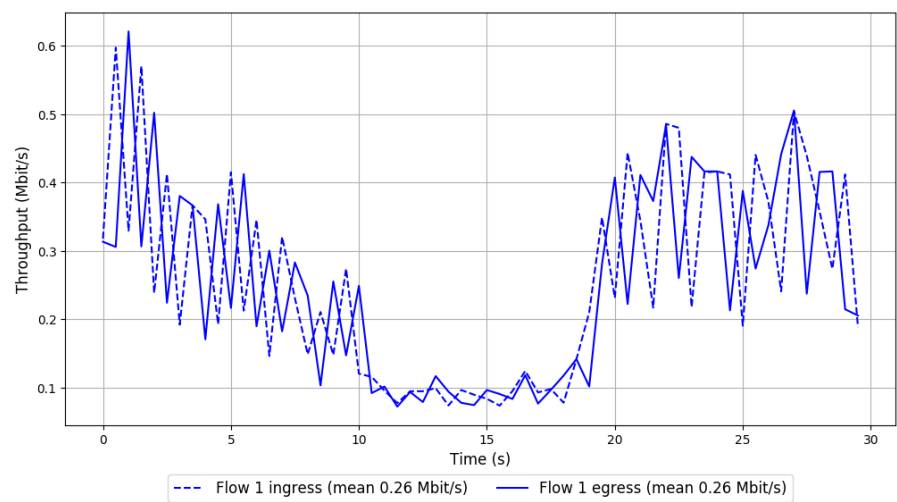
-- Flow 1:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 163.581 ms

Loss rate: 1.20%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-31 02:01:31

End at: 2018-01-31 02:02:01

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 163.504 ms

Loss rate: 0.44%

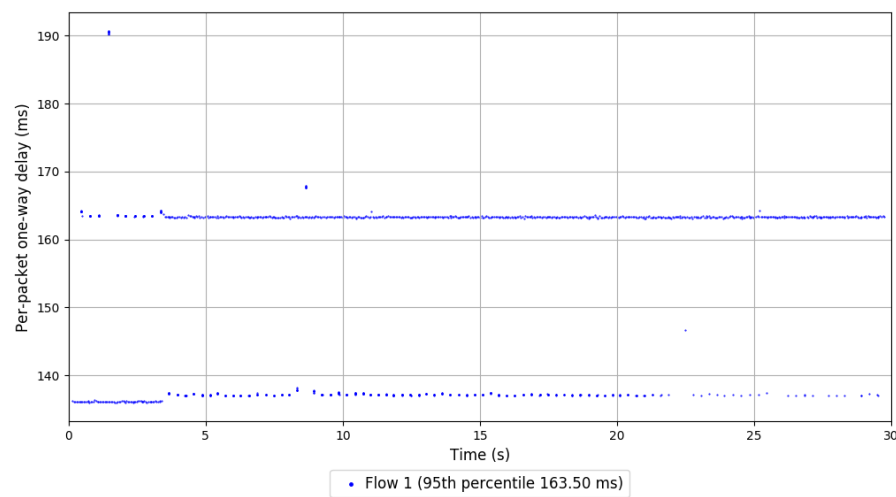
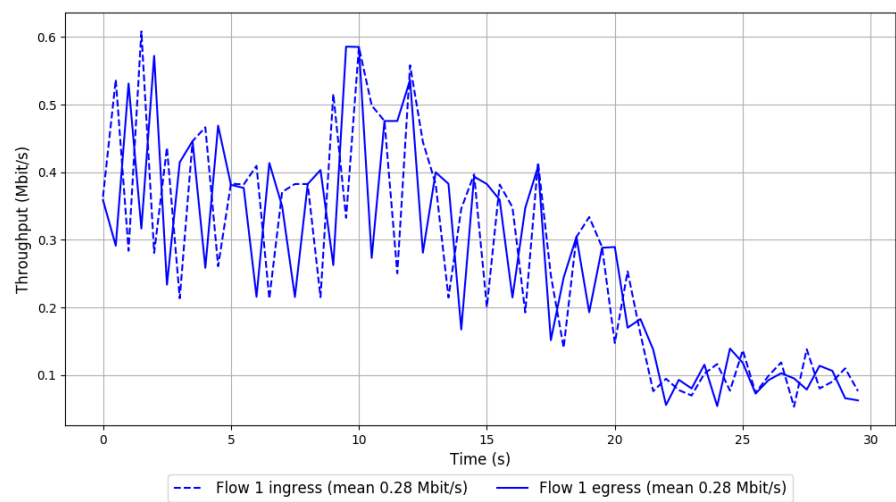
-- Flow 1:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 163.504 ms

Loss rate: 0.44%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-31 02:17:09

End at: 2018-01-31 02:17:39

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 163.280 ms

Loss rate: 0.38%

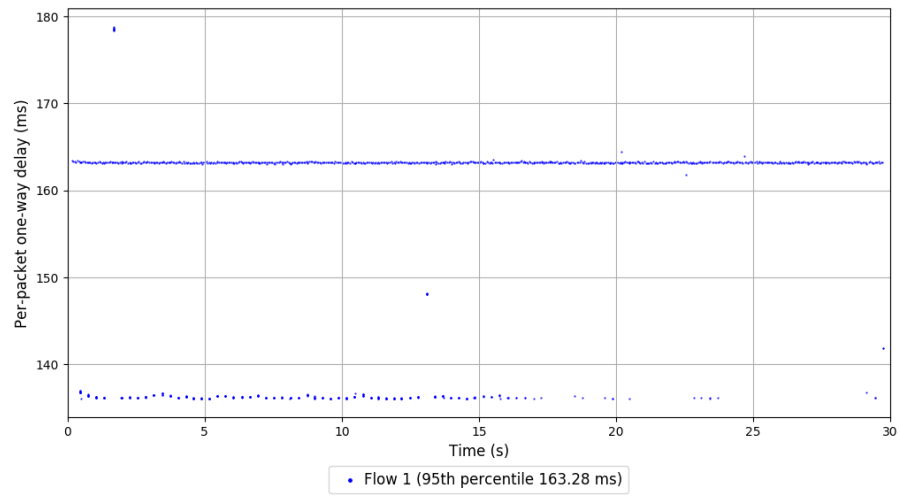
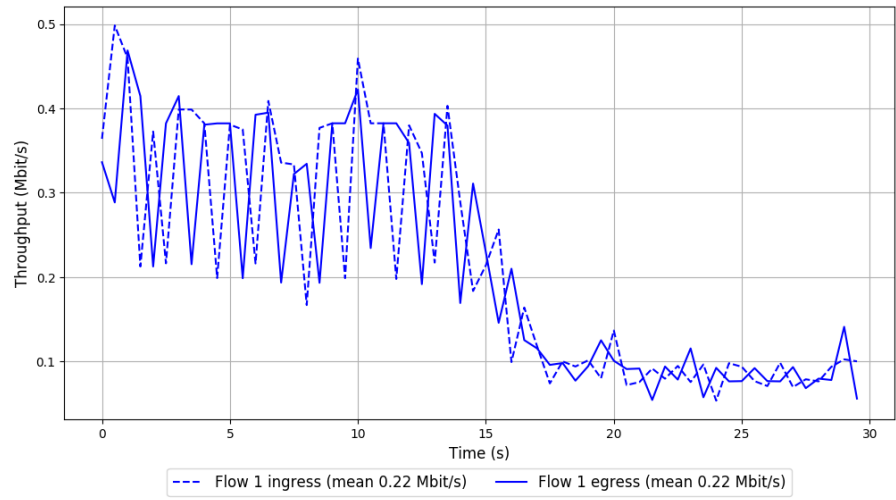
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 163.280 ms

Loss rate: 0.38%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-31 02:32:36

End at: 2018-01-31 02:33:06

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 163.432 ms

Loss rate: 0.35%

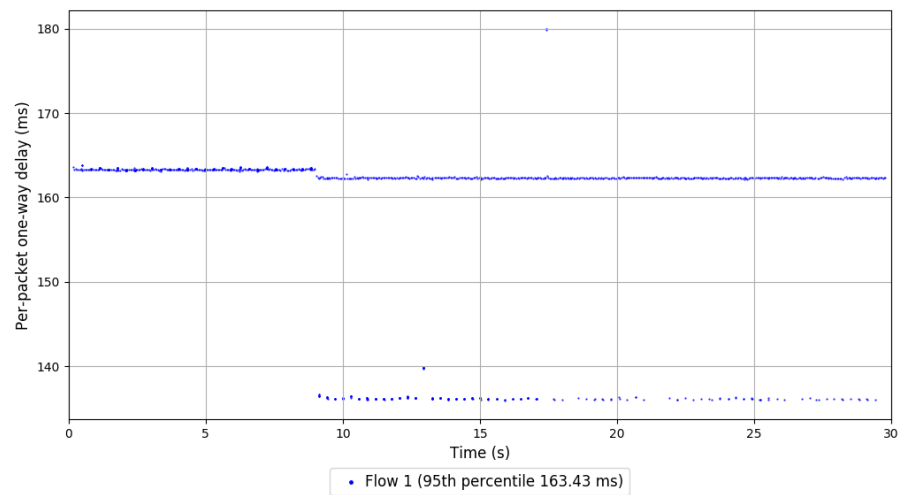
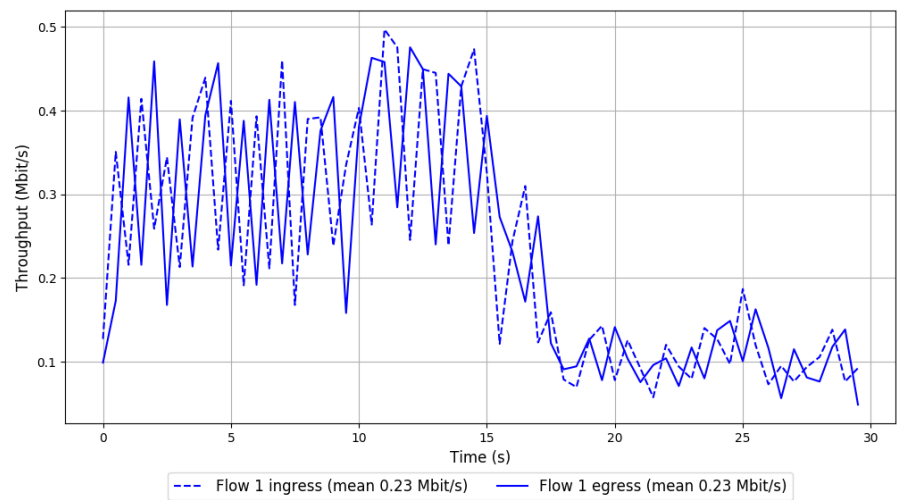
-- Flow 1:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 163.432 ms

Loss rate: 0.35%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-31 02:47:51

End at: 2018-01-31 02:48:21

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 162.816 ms

Loss rate: 0.48%

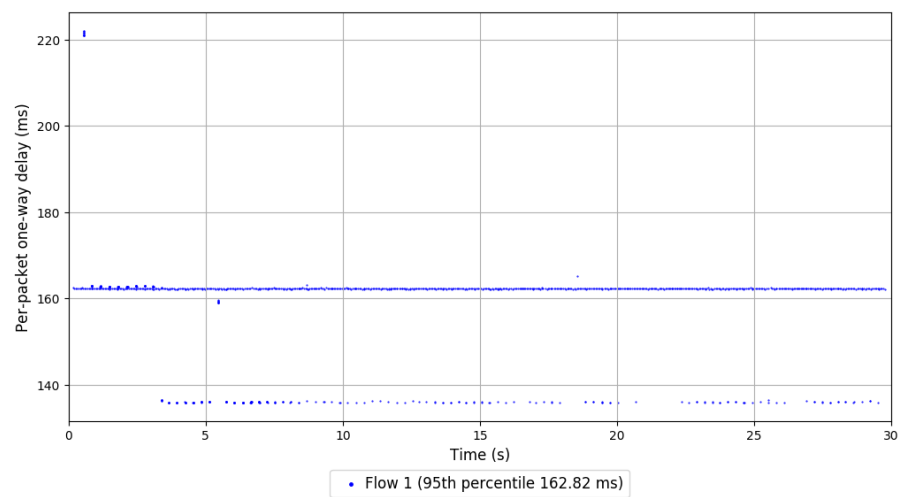
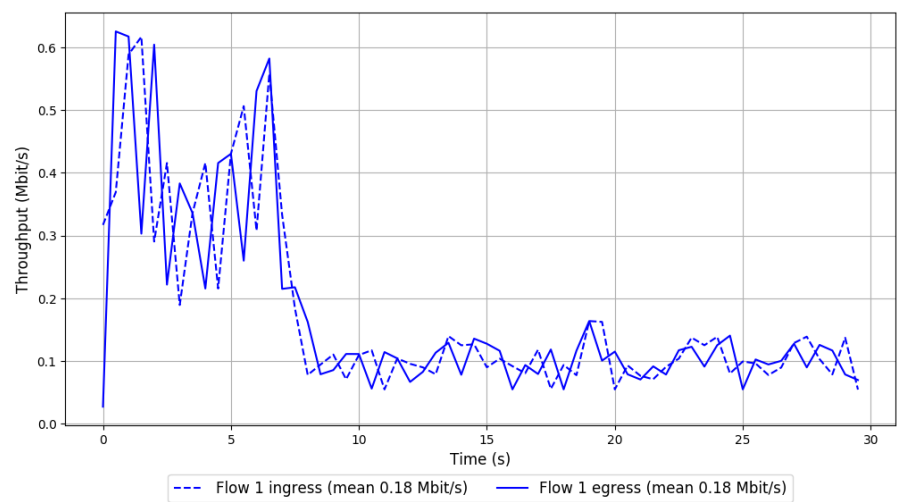
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 162.816 ms

Loss rate: 0.48%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-31 03:02:42

End at: 2018-01-31 03:03:12

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 162.789 ms

Loss rate: 0.41%

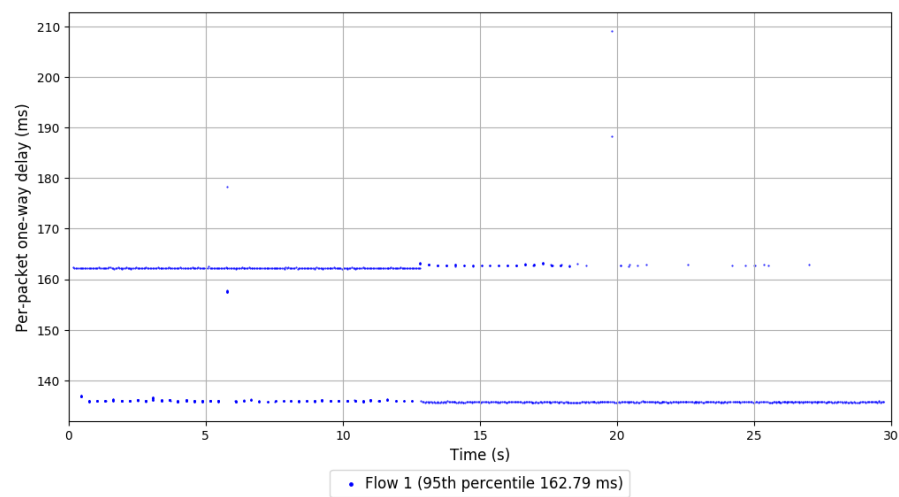
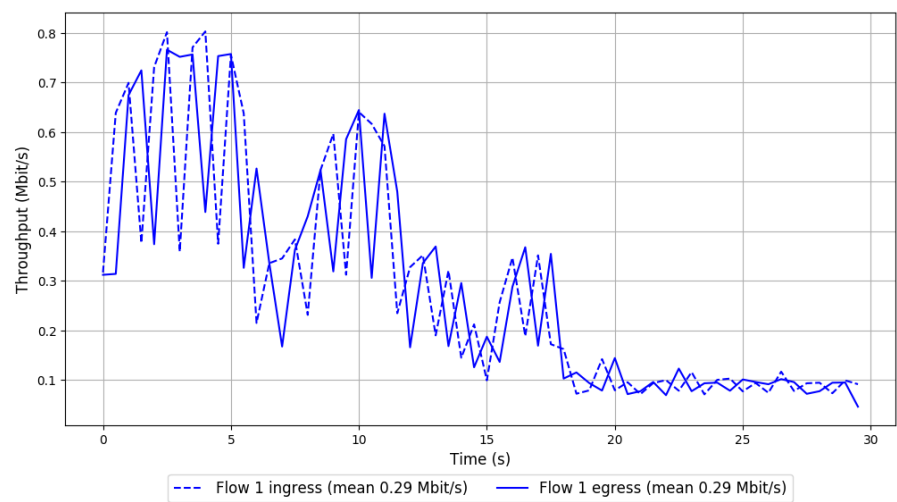
-- Flow 1:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 162.789 ms

Loss rate: 0.41%

Run 10: Report of Sprout — Data Link

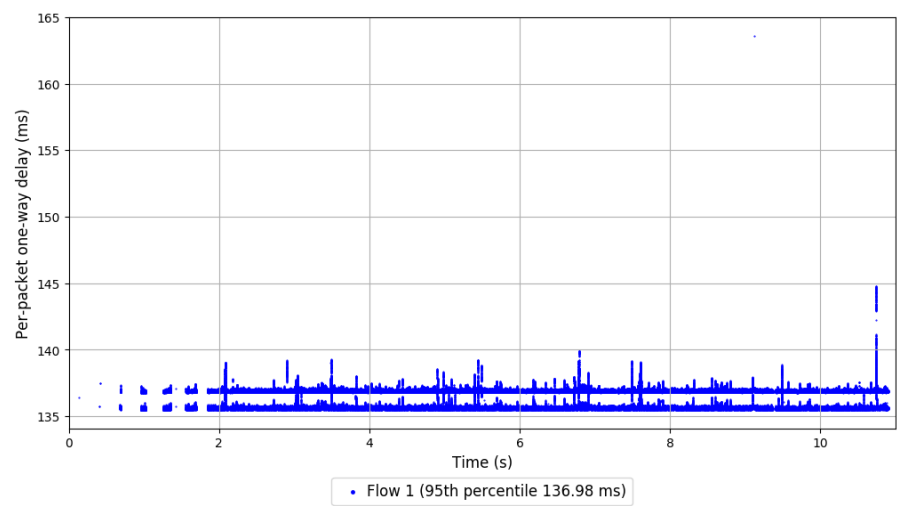
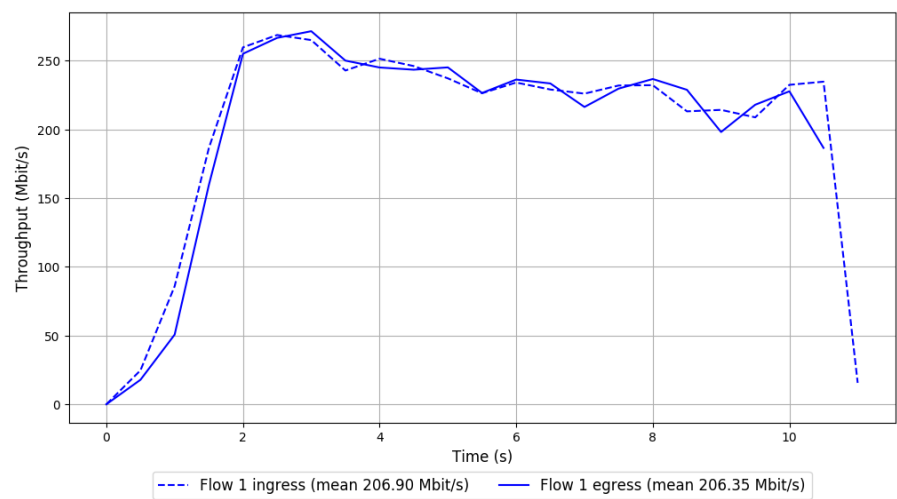


Run 1: Statistics of TaoVA-100x

Start at: 2018-01-31 00:45:48

End at: 2018-01-31 00:46:18

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

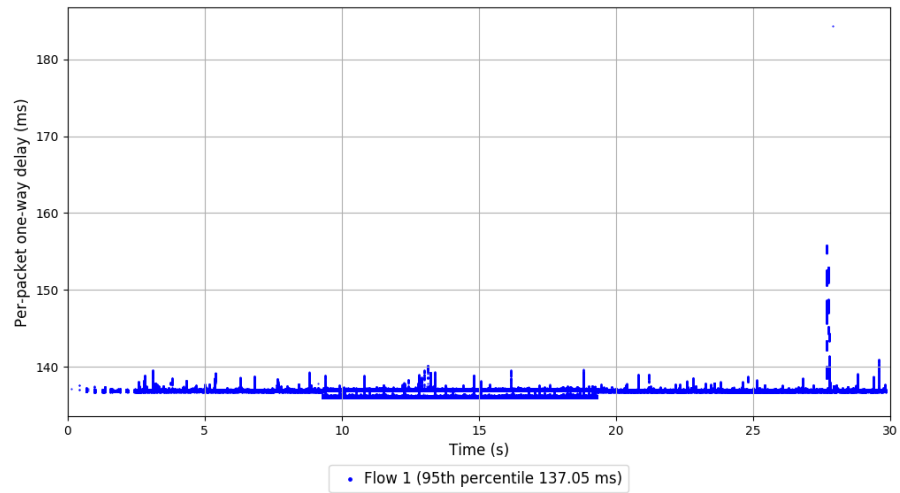
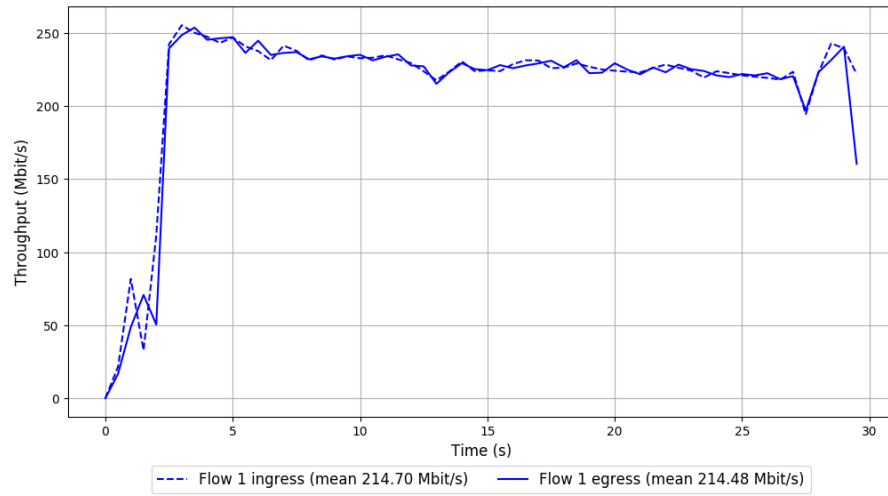


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-31 01:00:45
End at: 2018-01-31 01:01:15

# Below is generated by plot.py at 2018-01-31 06:07:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 214.48 Mbit/s
95th percentile per-packet one-way delay: 137.047 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 214.48 Mbit/s
95th percentile per-packet one-way delay: 137.047 ms
Loss rate: 1.01%
```

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

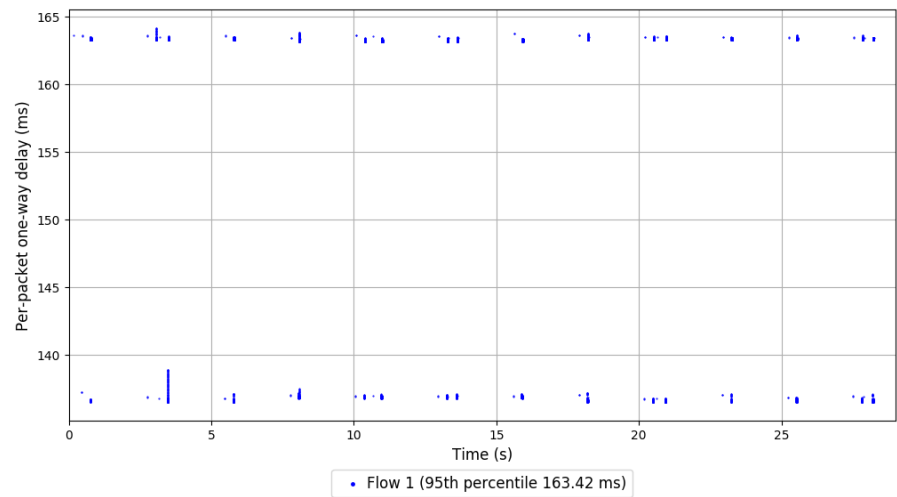
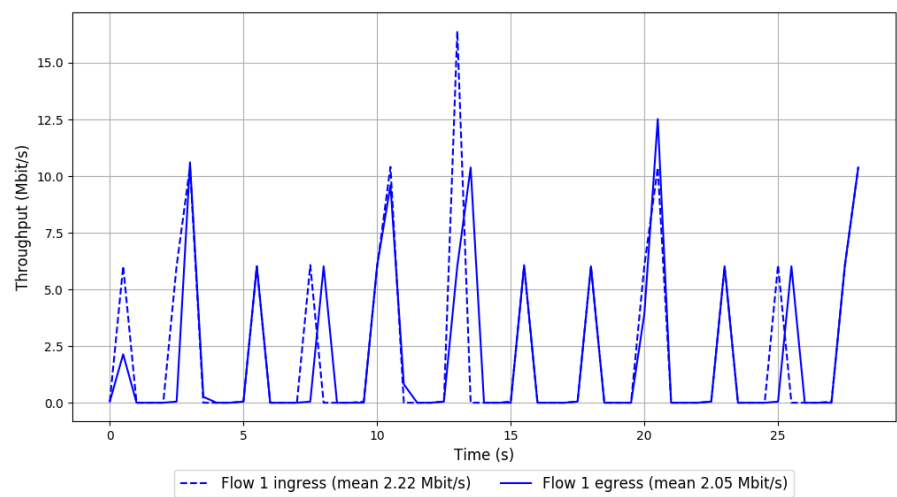


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-31 01:16:07
End at: 2018-01-31 01:16:37

# Below is generated by plot.py at 2018-01-31 06:07:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 163.418 ms
Loss rate: 7.55%
-- Flow 1:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 163.418 ms
Loss rate: 7.55%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-31 01:30:34

End at: 2018-01-31 01:31:04

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.86 Mbit/s

95th percentile per-packet one-way delay: 163.271 ms

Loss rate: 0.68%

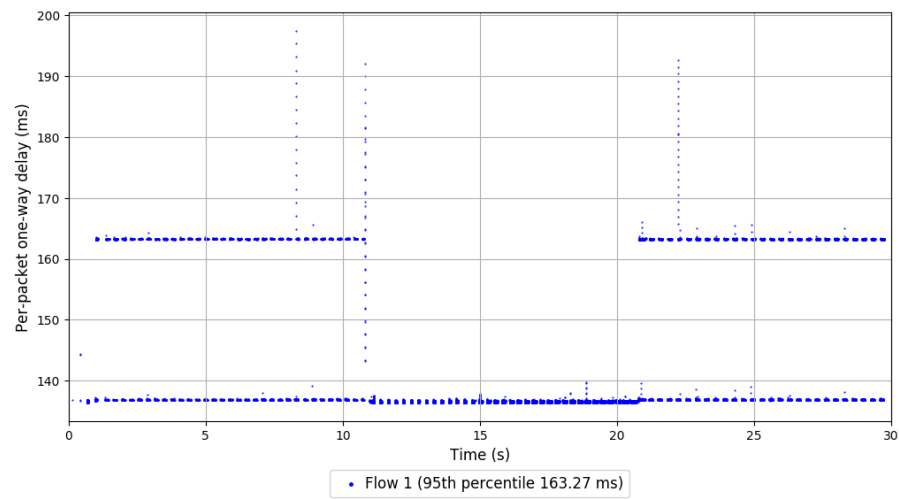
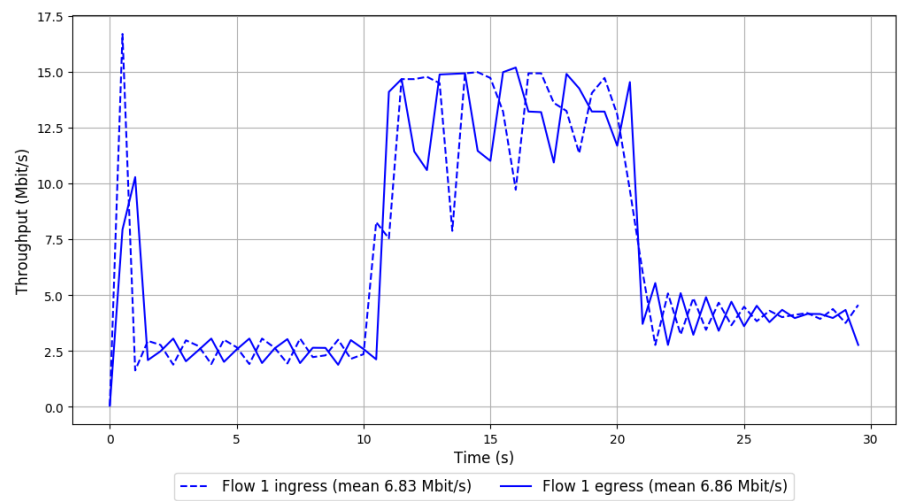
-- Flow 1:

Average throughput: 6.86 Mbit/s

95th percentile per-packet one-way delay: 163.271 ms

Loss rate: 0.68%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-31 01:45:13

End at: 2018-01-31 01:45:43

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.74 Mbit/s

95th percentile per-packet one-way delay: 137.152 ms

Loss rate: 0.29%

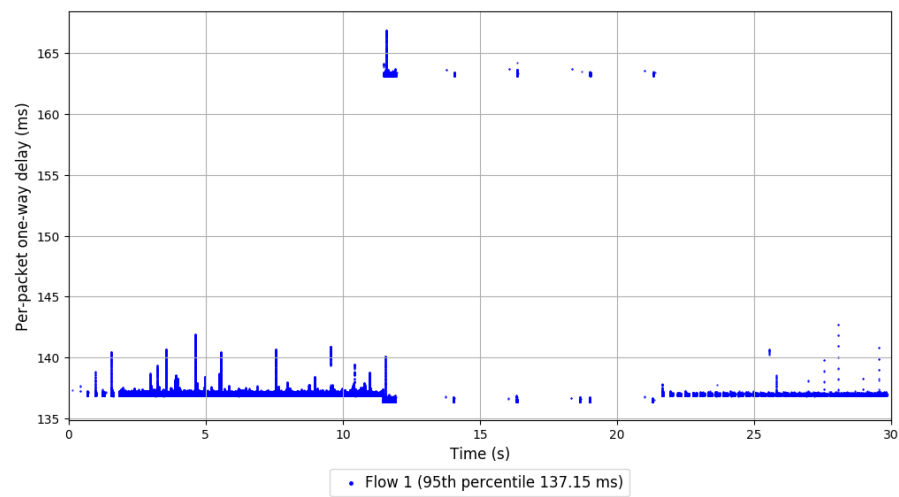
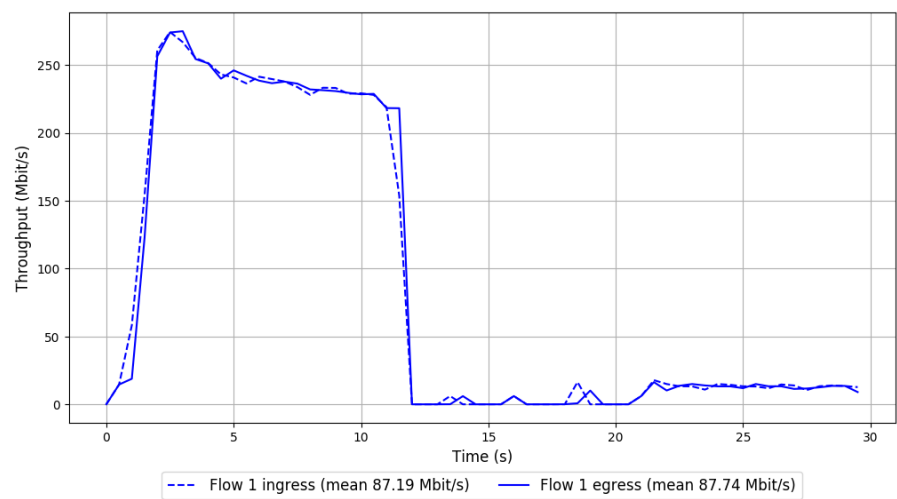
-- Flow 1:

Average throughput: 87.74 Mbit/s

95th percentile per-packet one-way delay: 137.152 ms

Loss rate: 0.29%

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

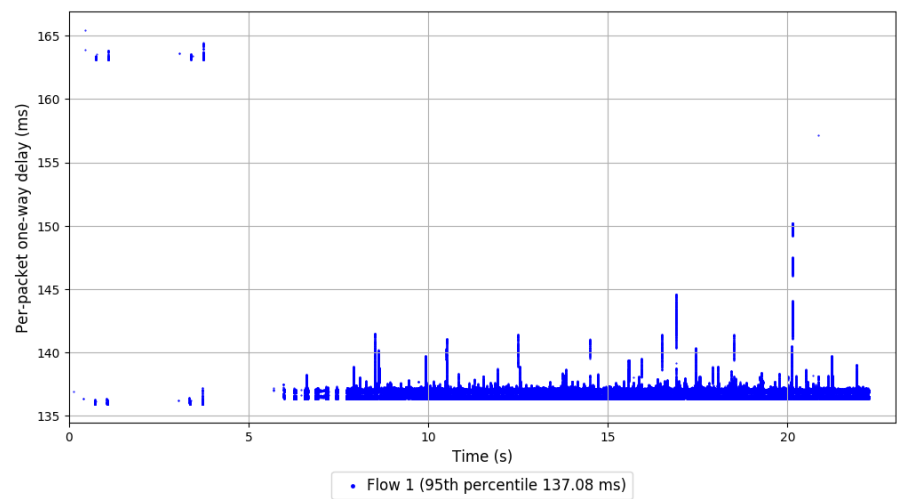
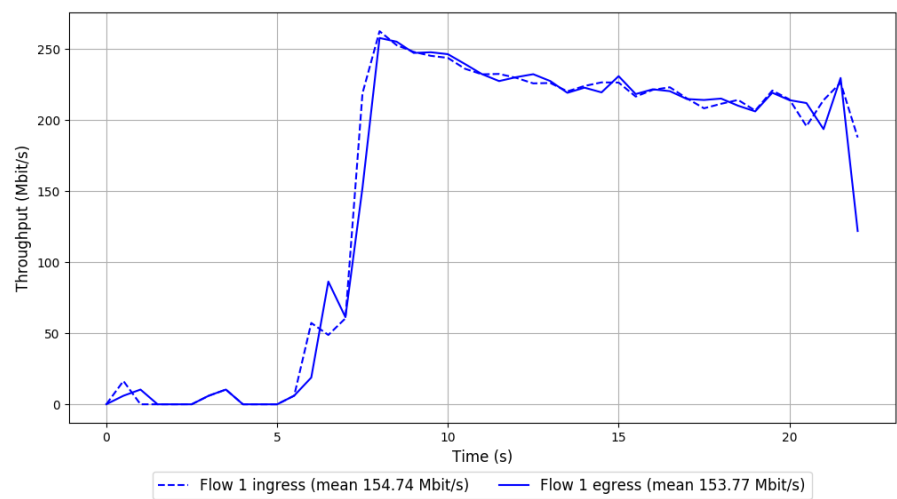


Run 6: Statistics of TaoVA-100x

Start at: 2018-01-31 01:59:53

End at: 2018-01-31 02:00:23

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

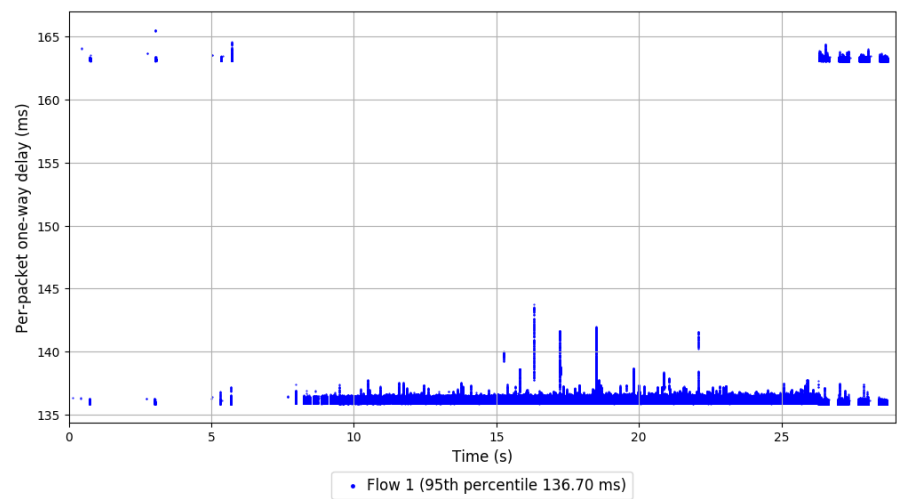
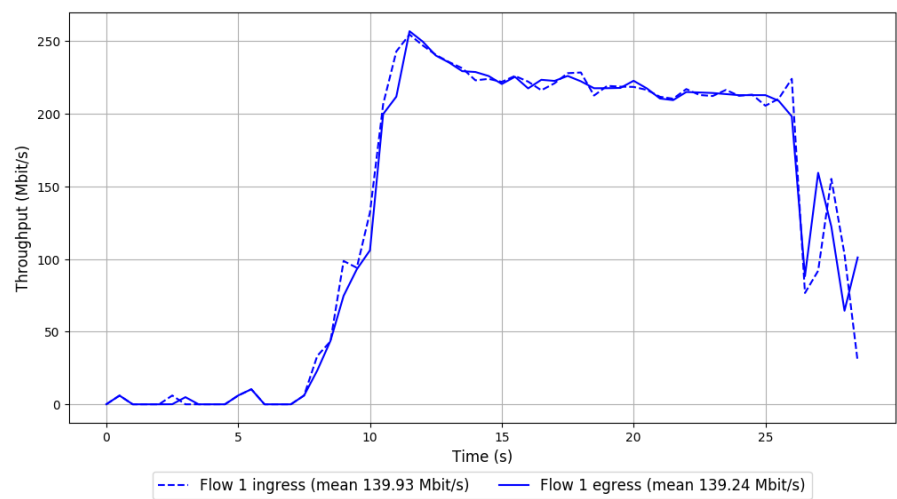


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-01-31 02:15:28
End at: 2018-01-31 02:15:58

# Below is generated by plot.py at 2018-01-31 06:07:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 139.24 Mbit/s
95th percentile per-packet one-way delay: 136.703 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 139.24 Mbit/s
95th percentile per-packet one-way delay: 136.703 ms
Loss rate: 0.40%
```

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

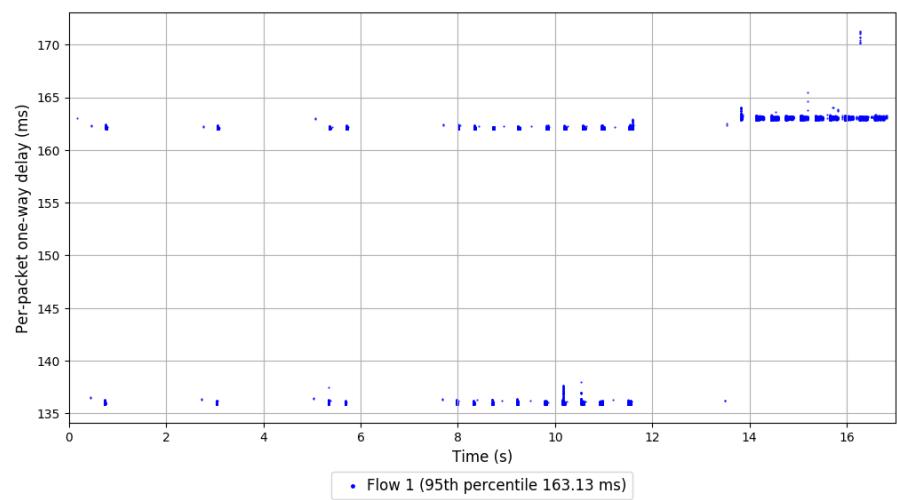
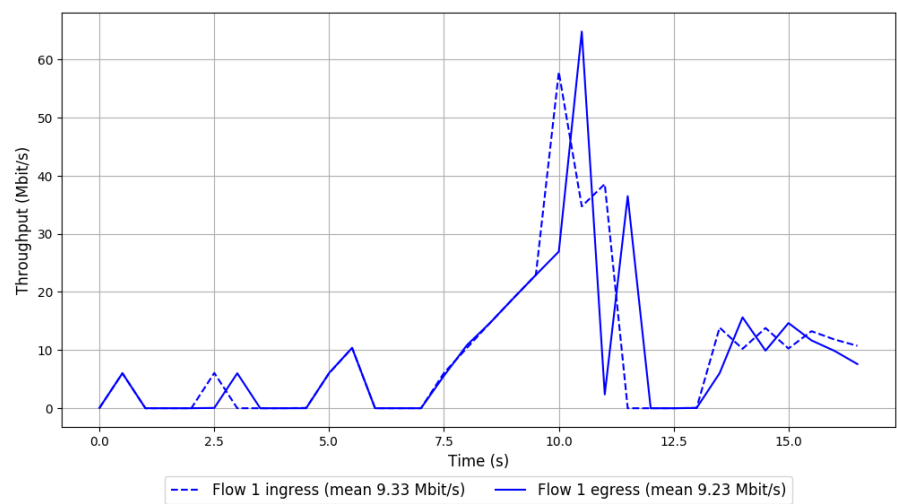


Run 8: Statistics of TaoVA-100x

Start at: 2018-01-31 02:31:08

End at: 2018-01-31 02:31:38

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

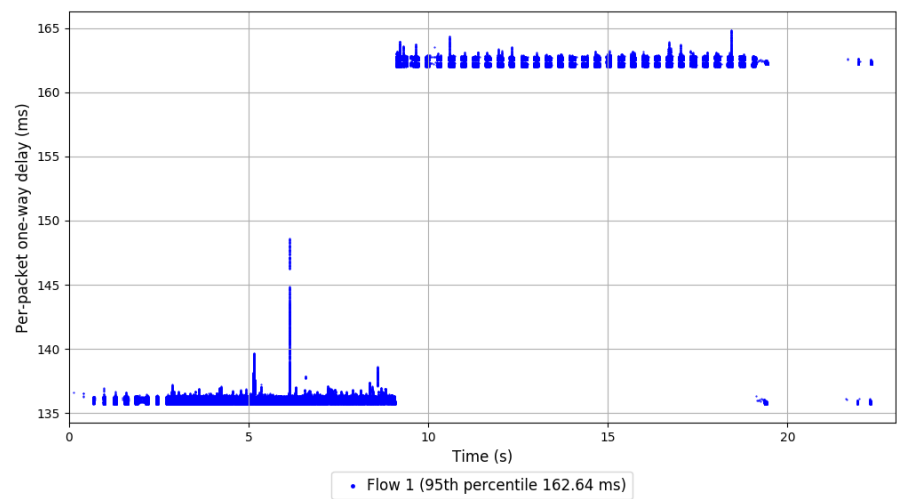
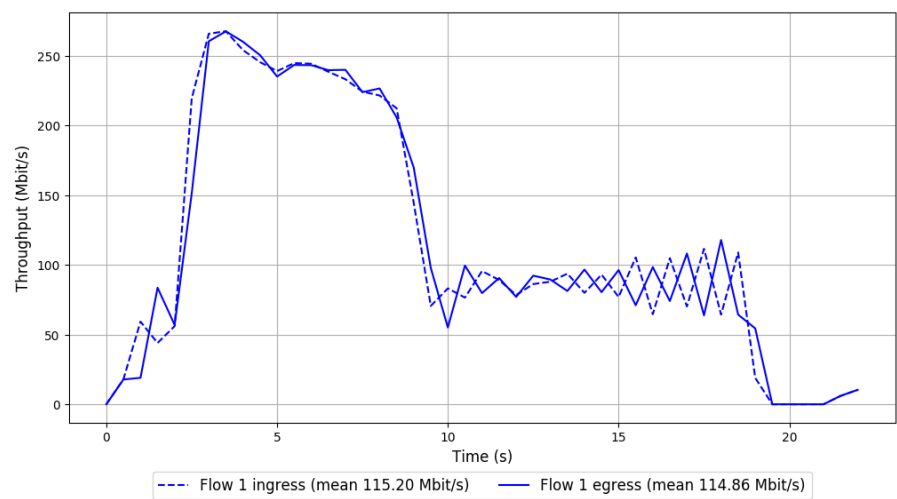


Run 9: Statistics of TaoVA-100x

Start at: 2018-01-31 02:46:16

End at: 2018-01-31 02:46:46

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

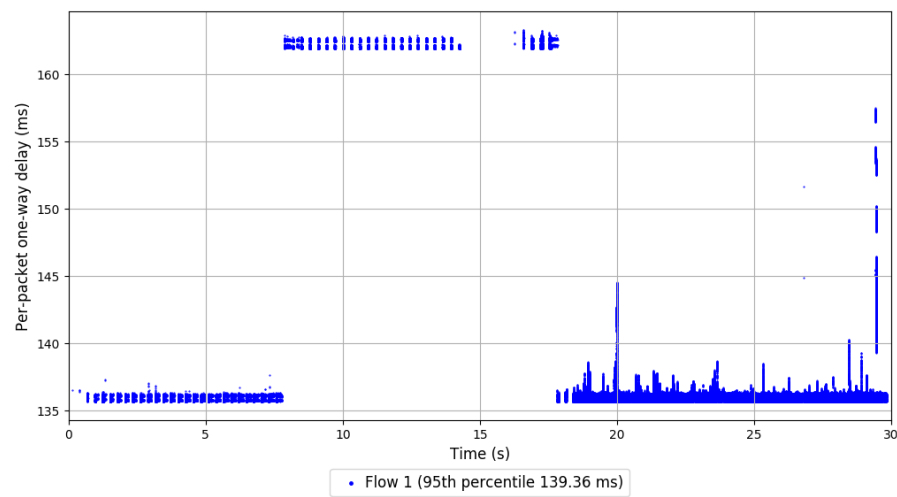
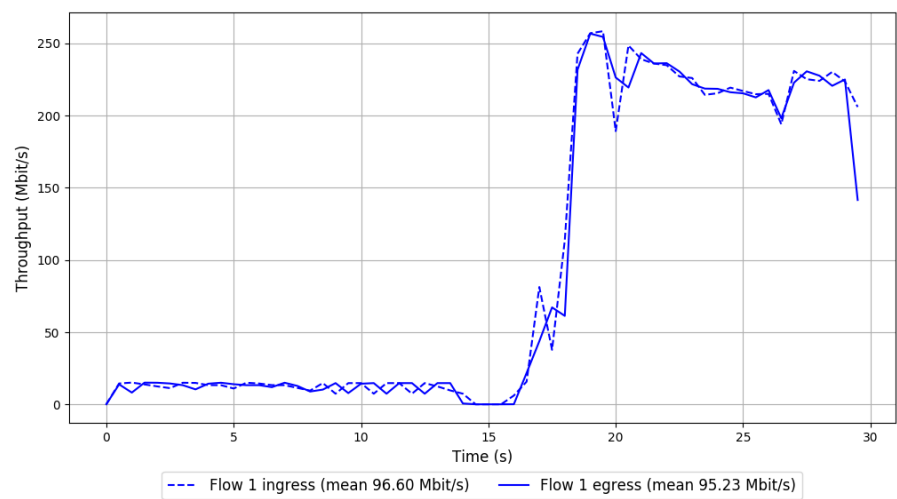


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-31 03:01:07
End at: 2018-01-31 03:01:37

# Below is generated by plot.py at 2018-01-31 06:07:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.23 Mbit/s
95th percentile per-packet one-way delay: 139.356 ms
Loss rate: 2.32%
-- Flow 1:
Average throughput: 95.23 Mbit/s
95th percentile per-packet one-way delay: 139.356 ms
Loss rate: 2.32%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-31 00:46:38

End at: 2018-01-31 00:47:08

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.17 Mbit/s

95th percentile per-packet one-way delay: 139.324 ms

Loss rate: 1.86%

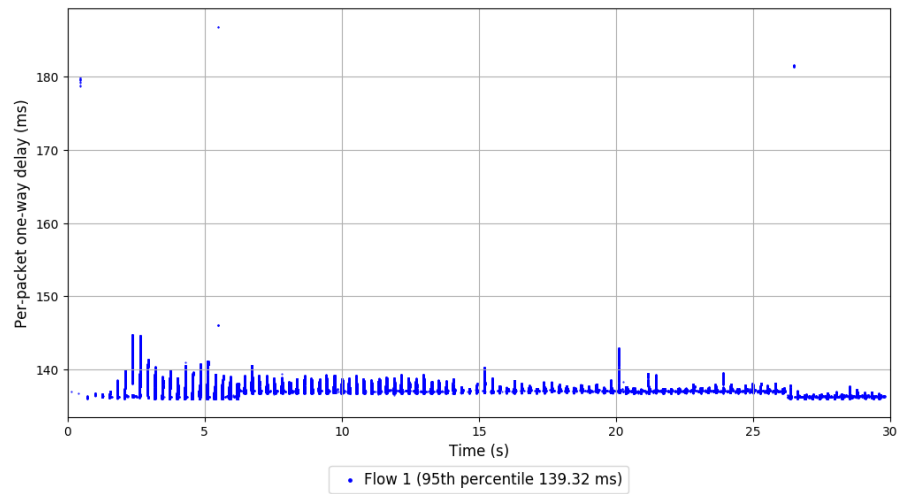
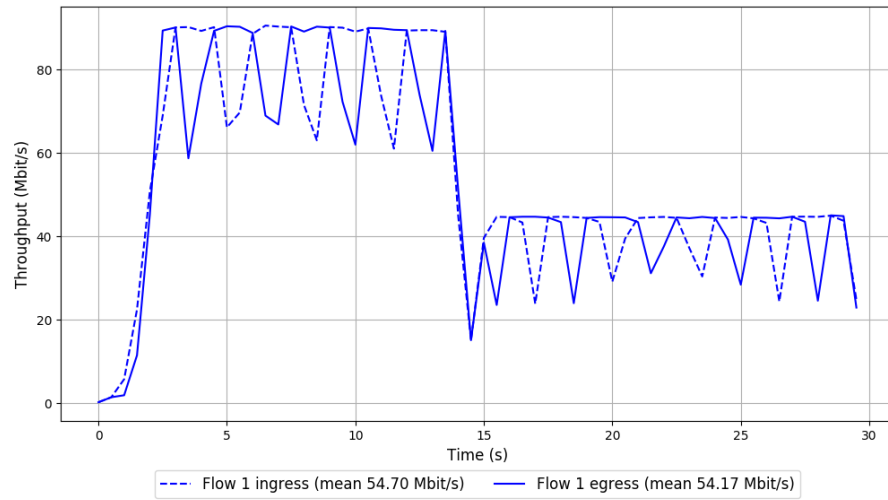
-- Flow 1:

Average throughput: 54.17 Mbit/s

95th percentile per-packet one-way delay: 139.324 ms

Loss rate: 1.86%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-31 01:01:49

End at: 2018-01-31 01:02:19

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.27 Mbit/s

95th percentile per-packet one-way delay: 148.141 ms

Loss rate: 2.89%

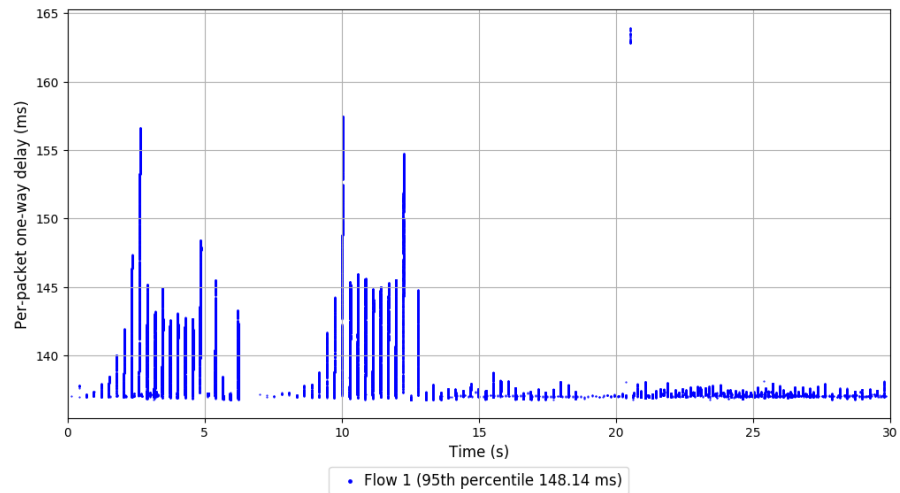
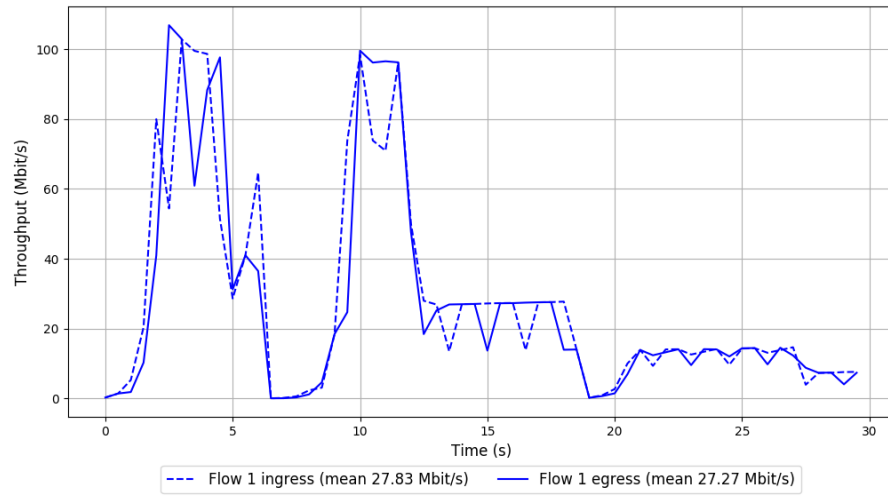
-- Flow 1:

Average throughput: 27.27 Mbit/s

95th percentile per-packet one-way delay: 148.141 ms

Loss rate: 2.89%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-31 01:16:50

End at: 2018-01-31 01:17:20

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.75 Mbit/s

95th percentile per-packet one-way delay: 169.126 ms

Loss rate: 1.63%

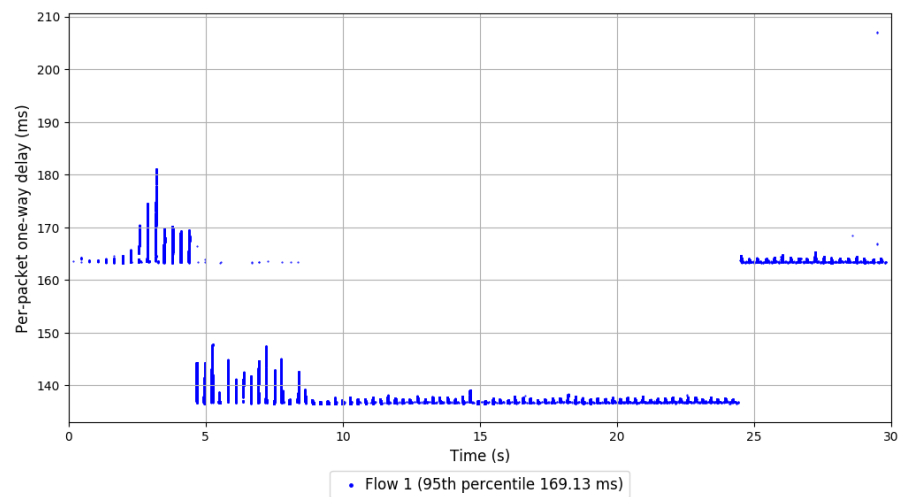
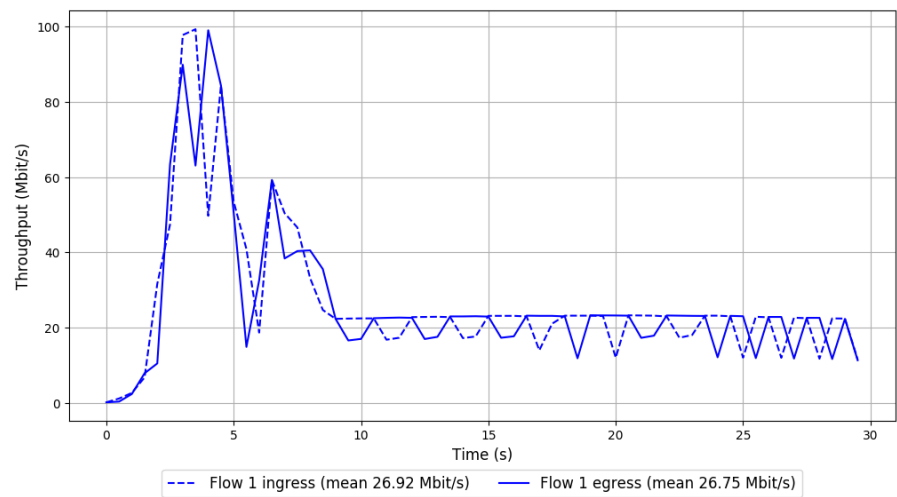
-- Flow 1:

Average throughput: 26.75 Mbit/s

95th percentile per-packet one-way delay: 169.126 ms

Loss rate: 1.63%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-31 01:31:17

End at: 2018-01-31 01:31:47

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.10 Mbit/s

95th percentile per-packet one-way delay: 164.244 ms

Loss rate: 0.88%

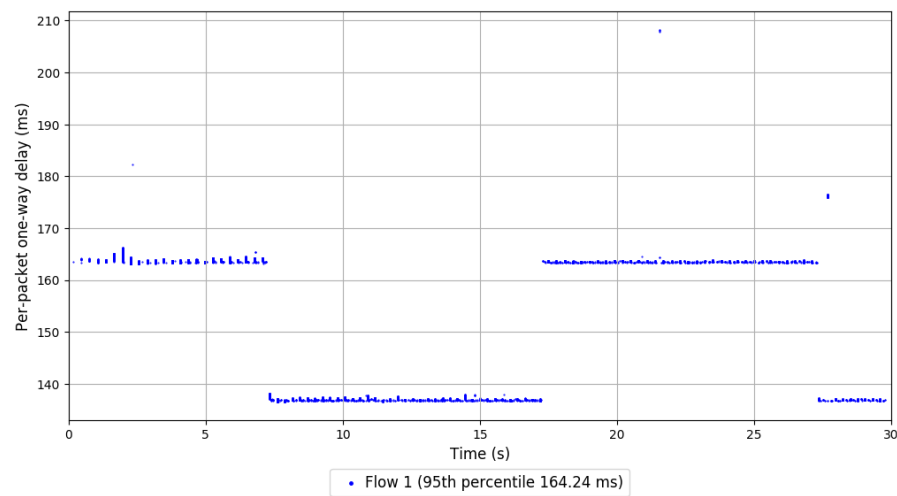
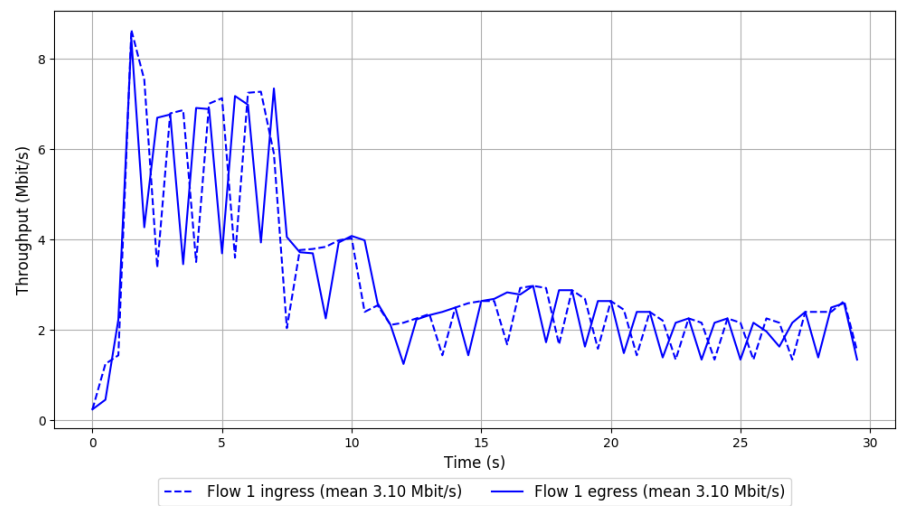
-- Flow 1:

Average throughput: 3.10 Mbit/s

95th percentile per-packet one-way delay: 164.244 ms

Loss rate: 0.88%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-31 01:46:05

End at: 2018-01-31 01:46:35

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.17 Mbit/s

95th percentile per-packet one-way delay: 171.275 ms

Loss rate: 1.99%

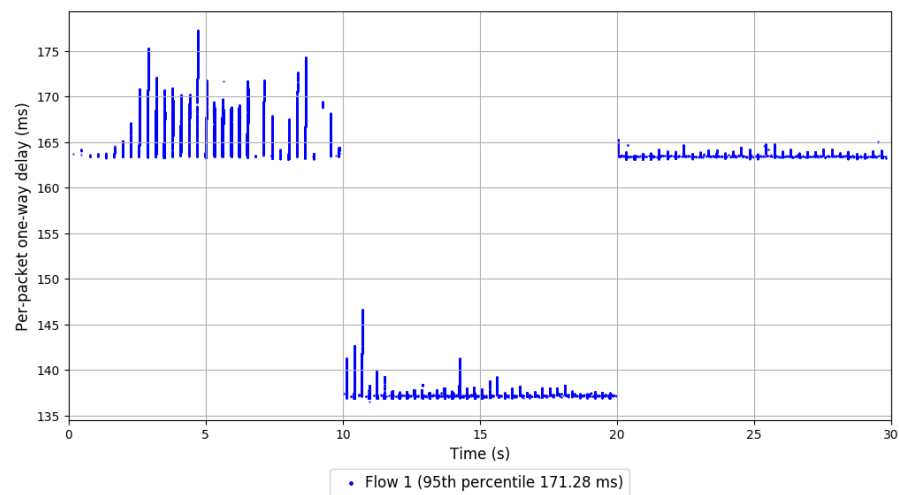
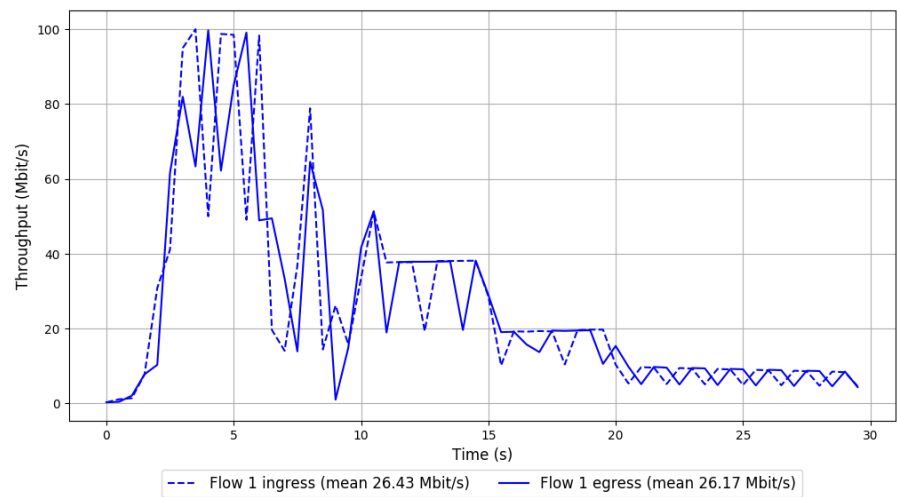
-- Flow 1:

Average throughput: 26.17 Mbit/s

95th percentile per-packet one-way delay: 171.275 ms

Loss rate: 1.99%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-31 02:00:47

End at: 2018-01-31 02:01:17

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.55 Mbit/s

95th percentile per-packet one-way delay: 163.932 ms

Loss rate: 0.82%

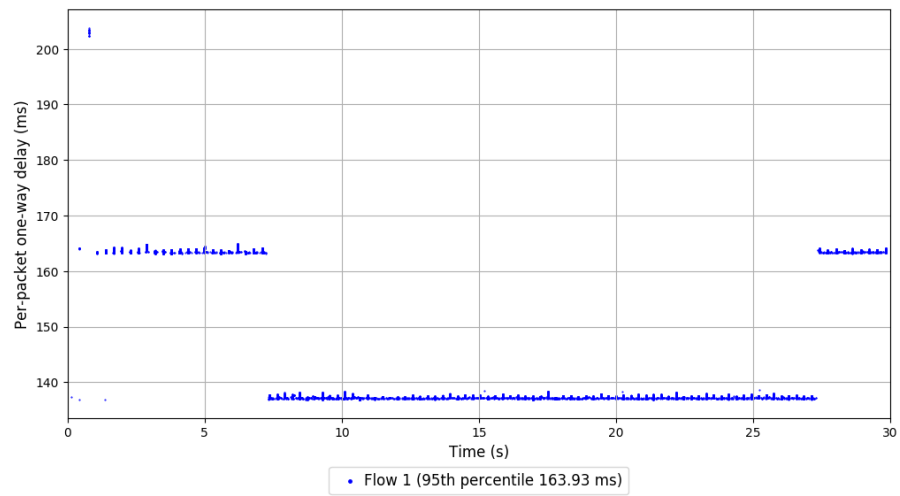
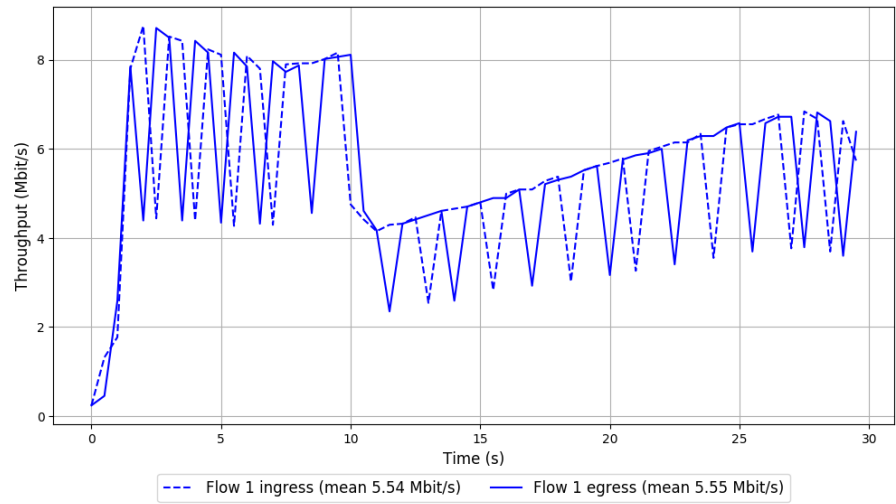
-- Flow 1:

Average throughput: 5.55 Mbit/s

95th percentile per-packet one-way delay: 163.932 ms

Loss rate: 0.82%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-31 02:16:26

End at: 2018-01-31 02:16:56

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 163.452 ms

Loss rate: 2.77%

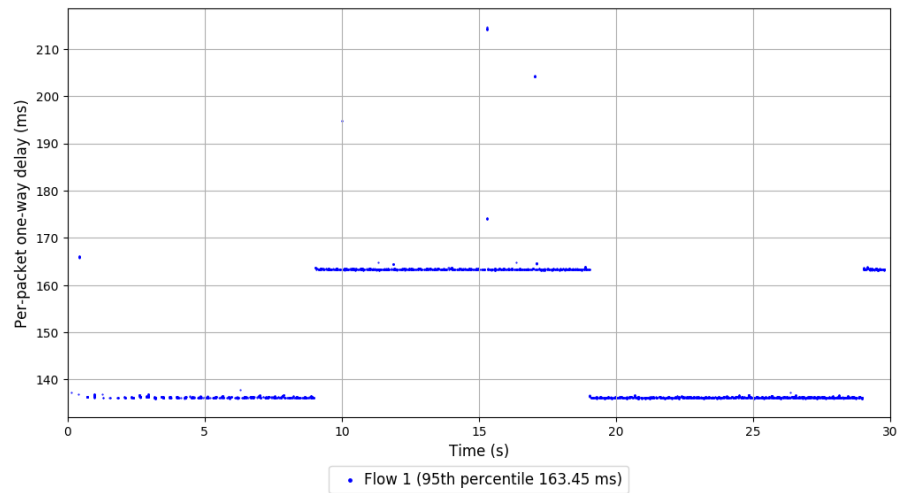
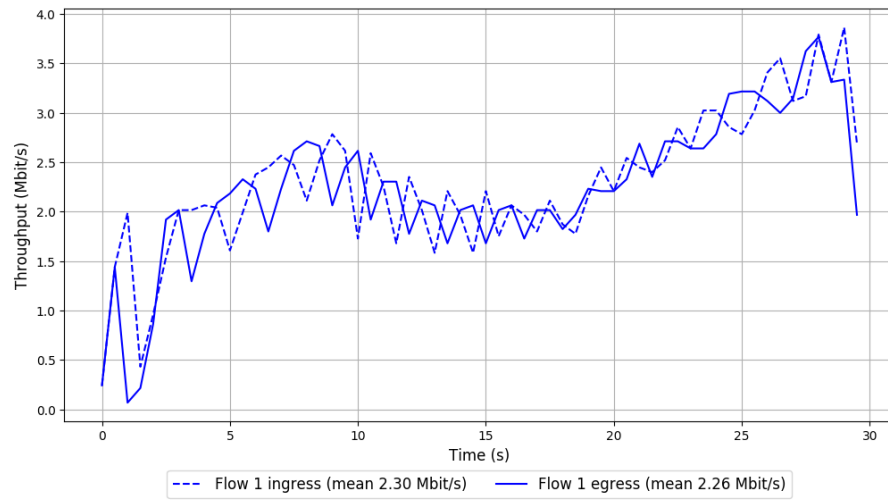
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 163.452 ms

Loss rate: 2.77%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-31 02:31:52

End at: 2018-01-31 02:32:22

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 164.164 ms

Loss rate: 2.07%

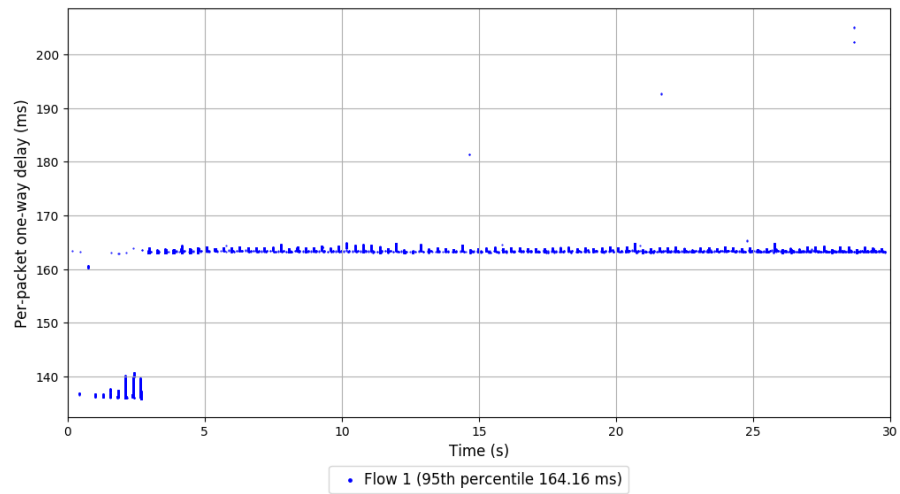
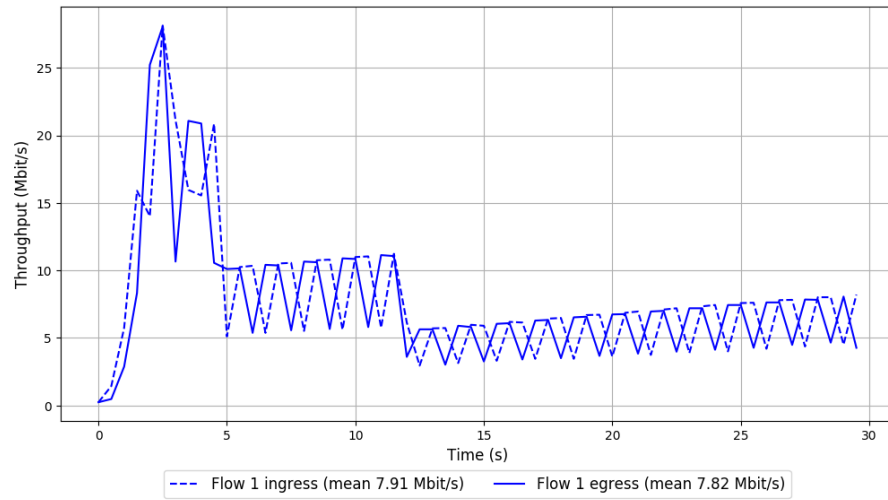
-- Flow 1:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 164.164 ms

Loss rate: 2.07%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-31 02:47:07

End at: 2018-01-31 02:47:37

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.10 Mbit/s

95th percentile per-packet one-way delay: 163.220 ms

Loss rate: 2.61%

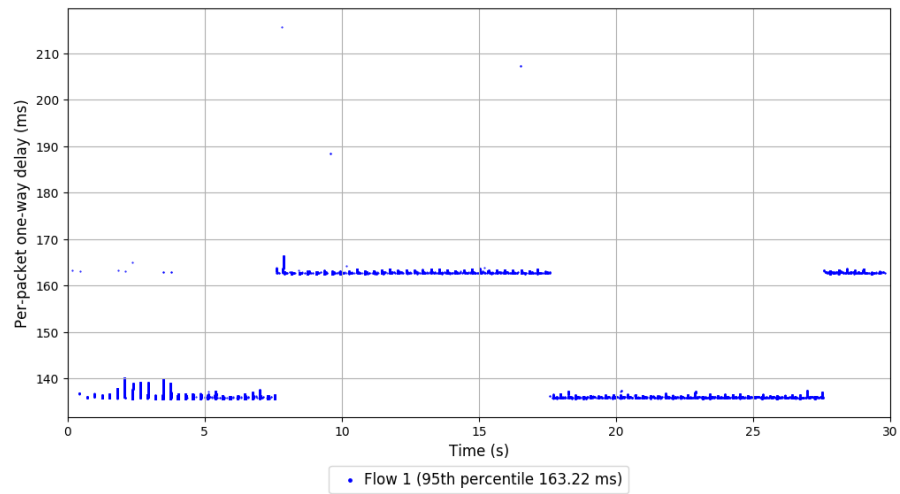
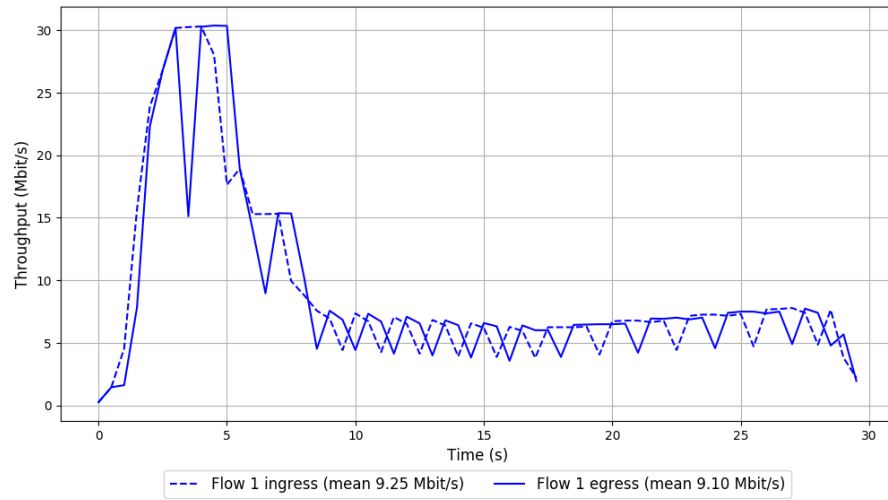
-- Flow 1:

Average throughput: 9.10 Mbit/s

95th percentile per-packet one-way delay: 163.220 ms

Loss rate: 2.61%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-31 03:01:59

End at: 2018-01-31 03:02:29

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 163.013 ms

Loss rate: 1.14%

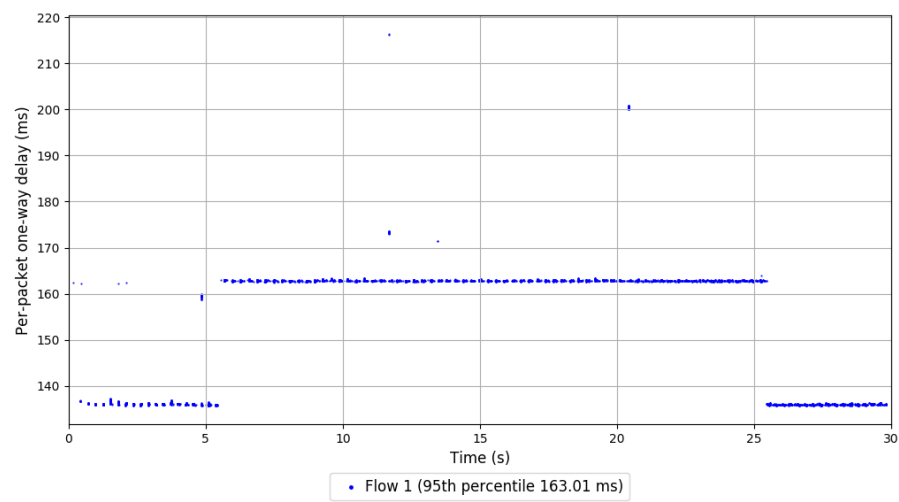
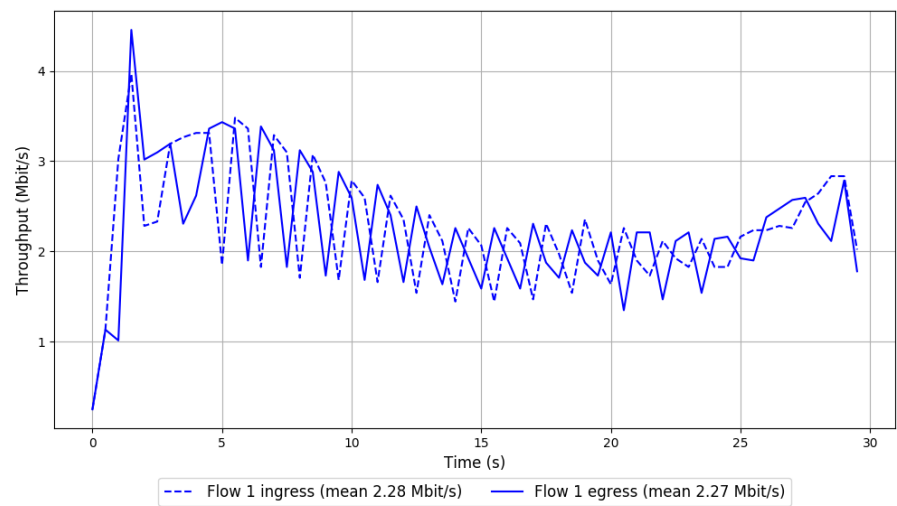
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 163.013 ms

Loss rate: 1.14%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-31 00:49:59

End at: 2018-01-31 00:50:29

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.75 Mbit/s

95th percentile per-packet one-way delay: 176.317 ms

Loss rate: 1.81%

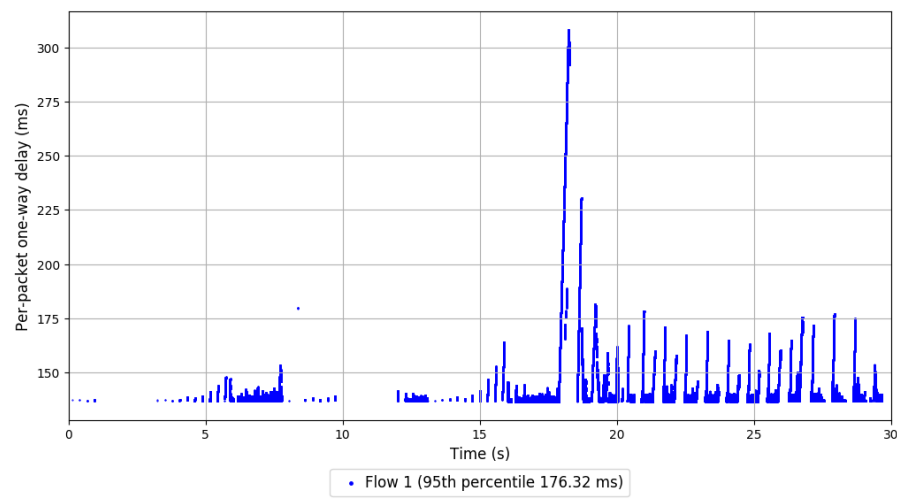
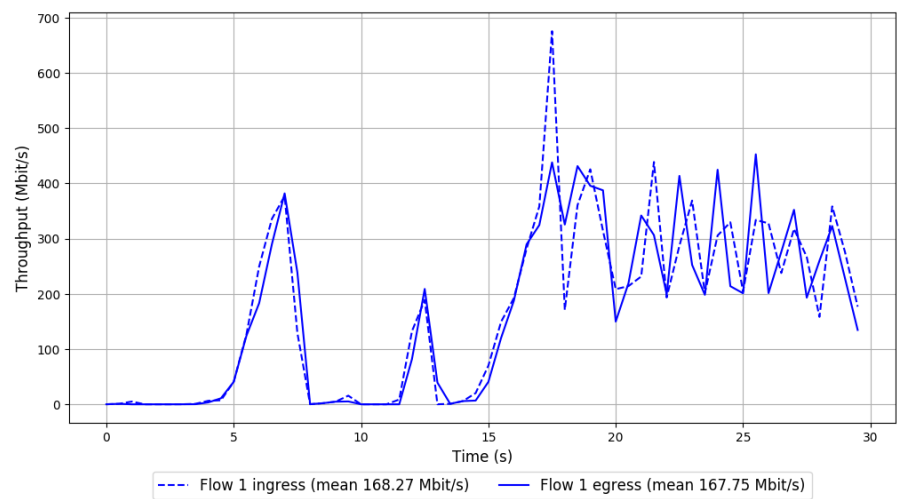
-- Flow 1:

Average throughput: 167.75 Mbit/s

95th percentile per-packet one-way delay: 176.317 ms

Loss rate: 1.81%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-31 01:05:10

End at: 2018-01-31 01:05:40

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.98 Mbit/s

95th percentile per-packet one-way delay: 288.164 ms

Loss rate: 5.47%

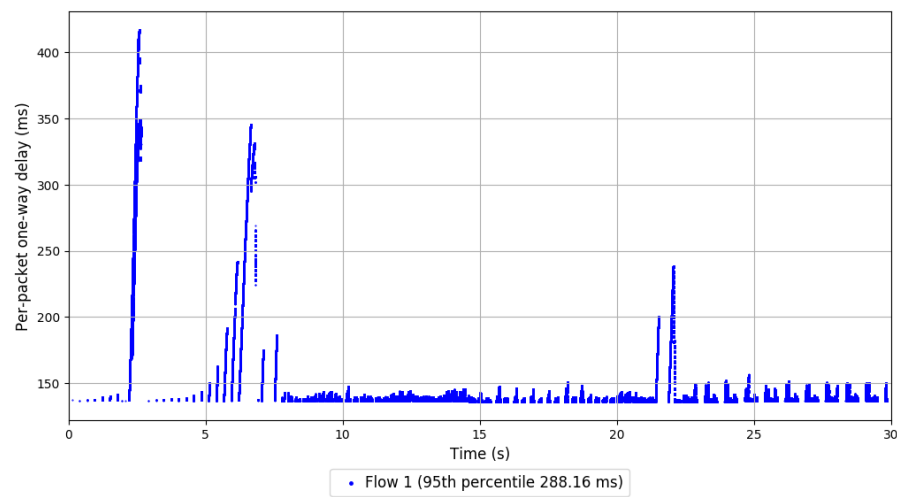
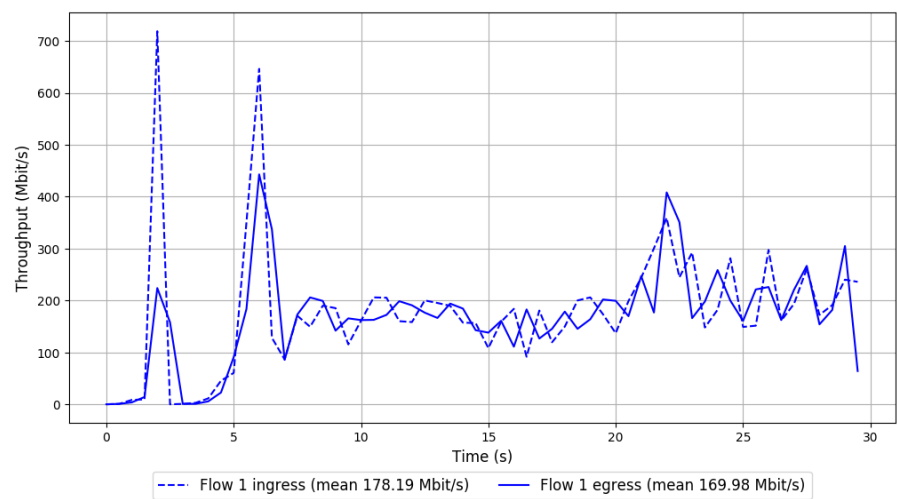
-- Flow 1:

Average throughput: 169.98 Mbit/s

95th percentile per-packet one-way delay: 288.164 ms

Loss rate: 5.47%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-31 01:20:10

End at: 2018-01-31 01:20:40

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 115.87 Mbit/s

95th percentile per-packet one-way delay: 164.836 ms

Loss rate: 0.96%

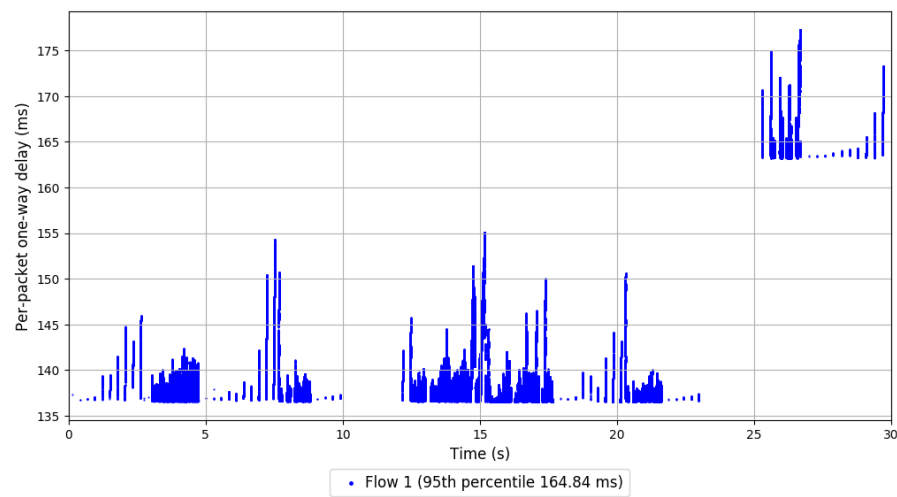
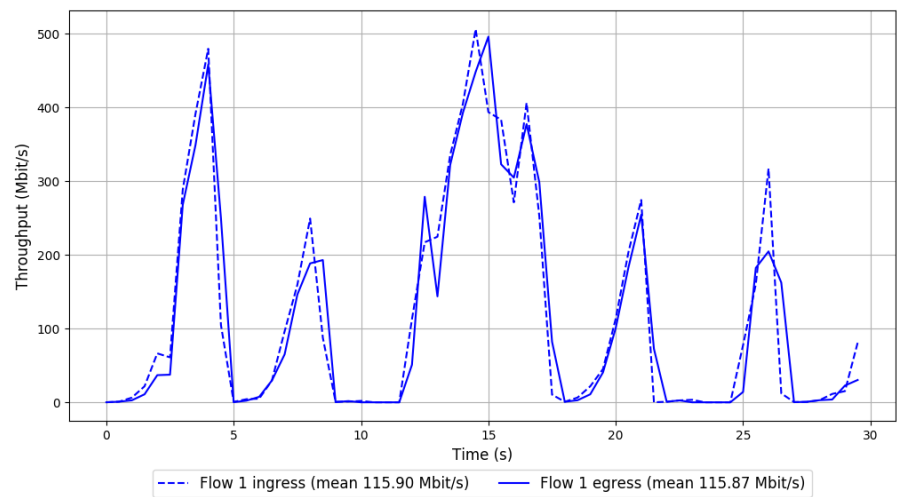
-- Flow 1:

Average throughput: 115.87 Mbit/s

95th percentile per-packet one-way delay: 164.836 ms

Loss rate: 0.96%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-31 01:34:39

End at: 2018-01-31 01:35:09

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.25 Mbit/s

95th percentile per-packet one-way delay: 204.786 ms

Loss rate: 2.26%

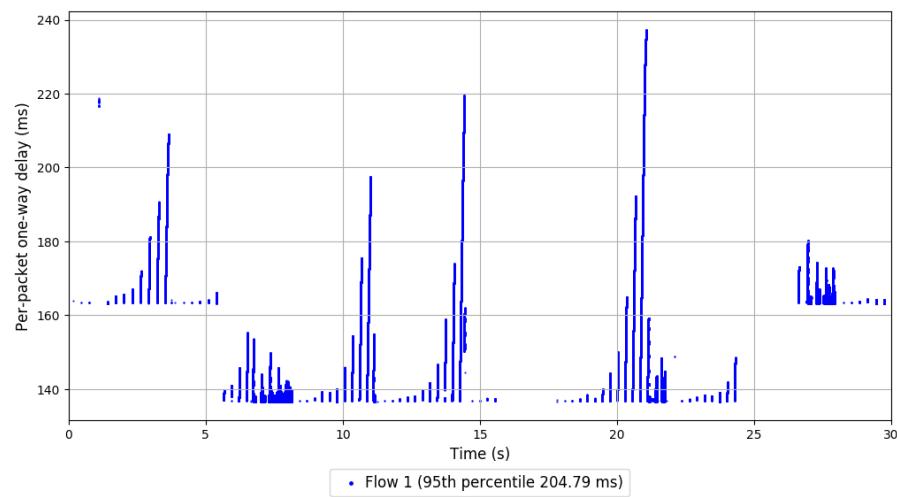
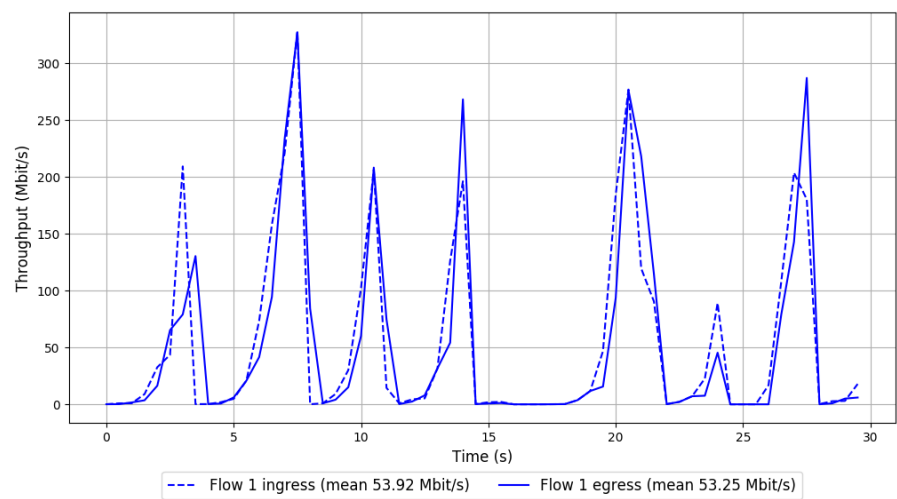
-- Flow 1:

Average throughput: 53.25 Mbit/s

95th percentile per-packet one-way delay: 204.786 ms

Loss rate: 2.26%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-31 01:49:25

End at: 2018-01-31 01:49:55

Below is generated by plot.py at 2018-01-31 06:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.62 Mbit/s

95th percentile per-packet one-way delay: 247.927 ms

Loss rate: 6.03%

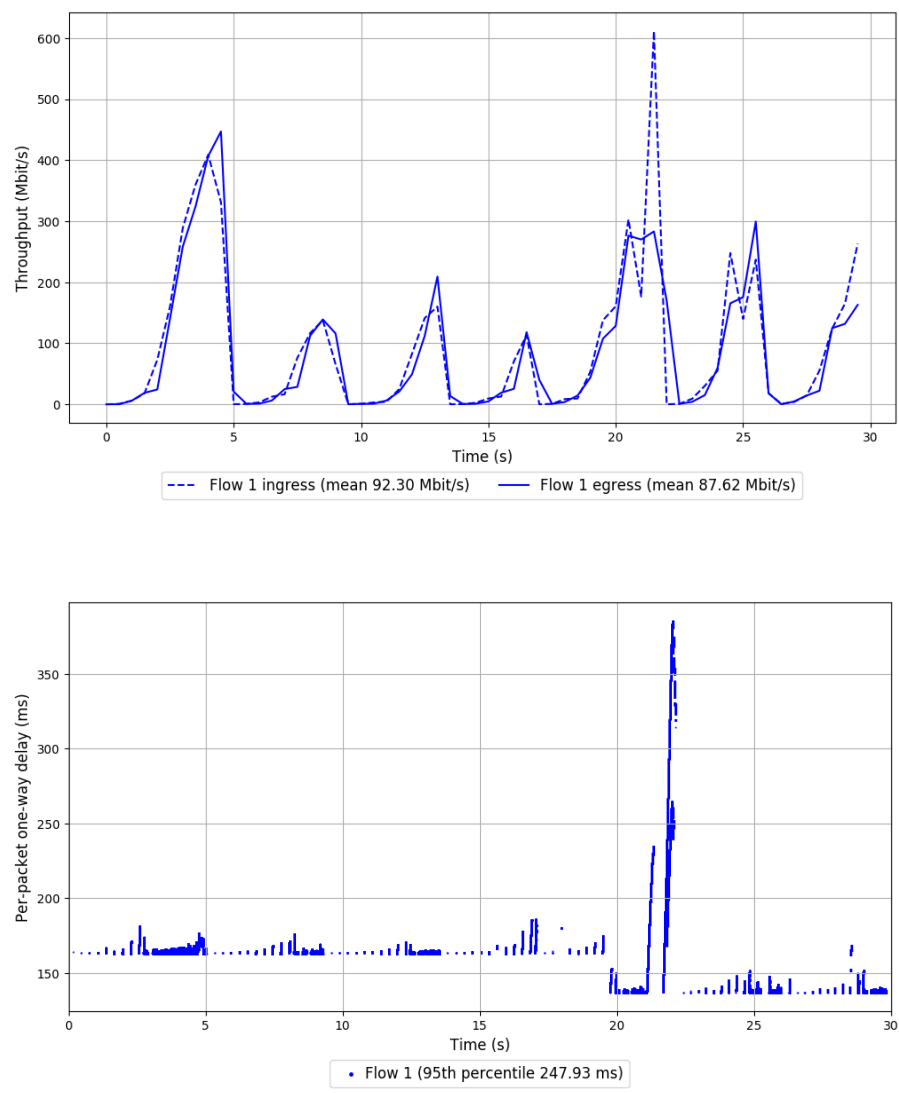
-- Flow 1:

Average throughput: 87.62 Mbit/s

95th percentile per-packet one-way delay: 247.927 ms

Loss rate: 6.03%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-31 02:04:38

End at: 2018-01-31 02:05:08

Below is generated by plot.py at 2018-01-31 06:08:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.13 Mbit/s

95th percentile per-packet one-way delay: 221.211 ms

Loss rate: 3.70%

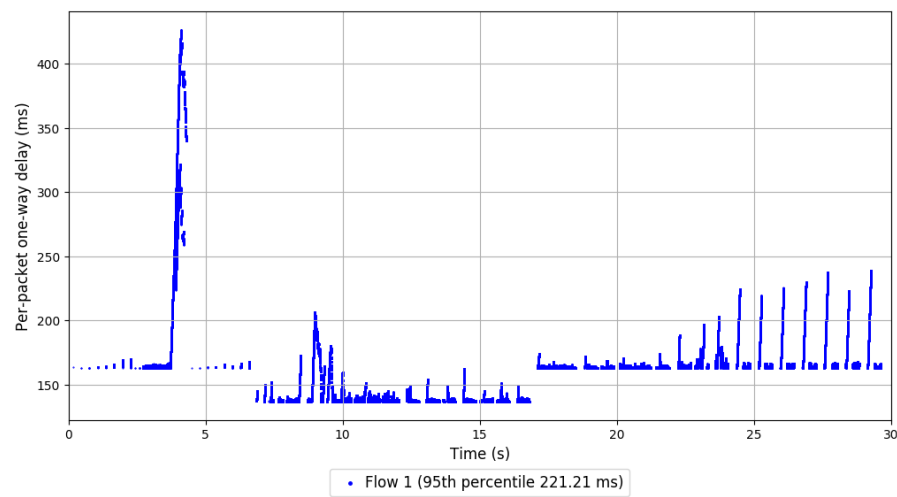
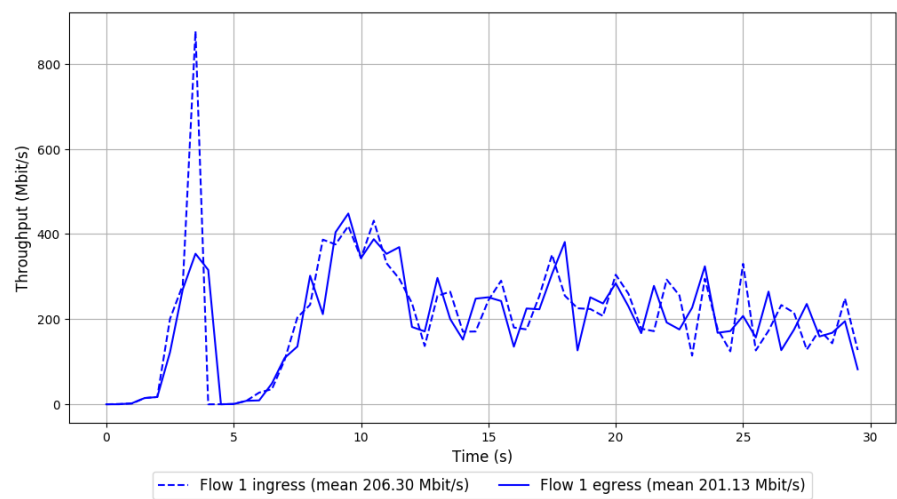
-- Flow 1:

Average throughput: 201.13 Mbit/s

95th percentile per-packet one-way delay: 221.211 ms

Loss rate: 3.70%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-31 02:20:10

End at: 2018-01-31 02:20:40

Below is generated by plot.py at 2018-01-31 06:08:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.27 Mbit/s

95th percentile per-packet one-way delay: 211.878 ms

Loss rate: 0.83%

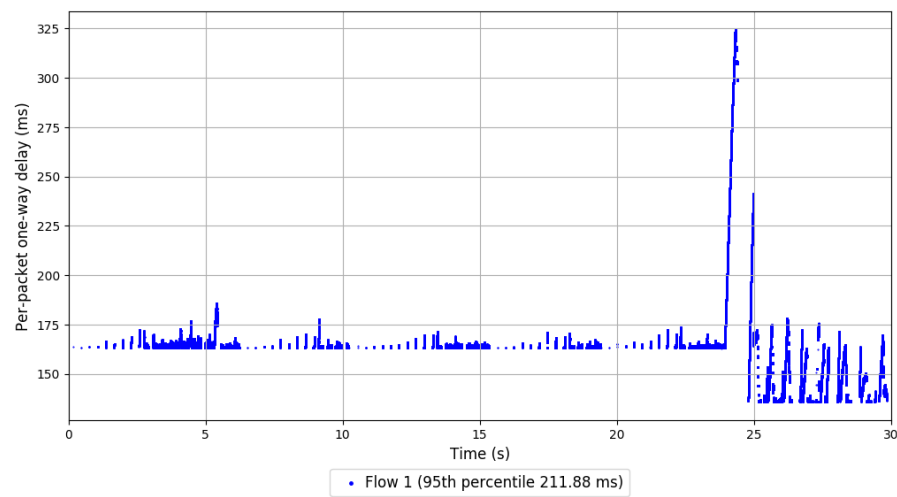
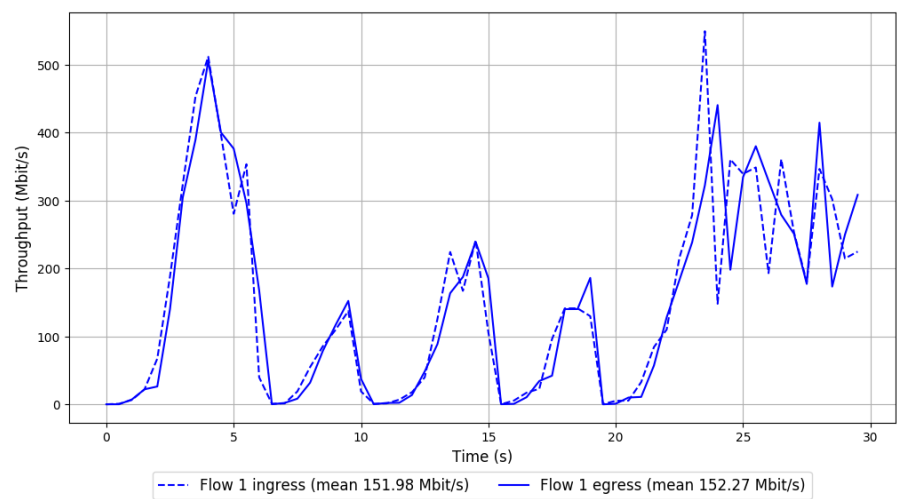
-- Flow 1:

Average throughput: 152.27 Mbit/s

95th percentile per-packet one-way delay: 211.878 ms

Loss rate: 0.83%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-31 02:35:37

End at: 2018-01-31 02:36:07

Below is generated by plot.py at 2018-01-31 06:08:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.67 Mbit/s

95th percentile per-packet one-way delay: 166.260 ms

Loss rate: 3.69%

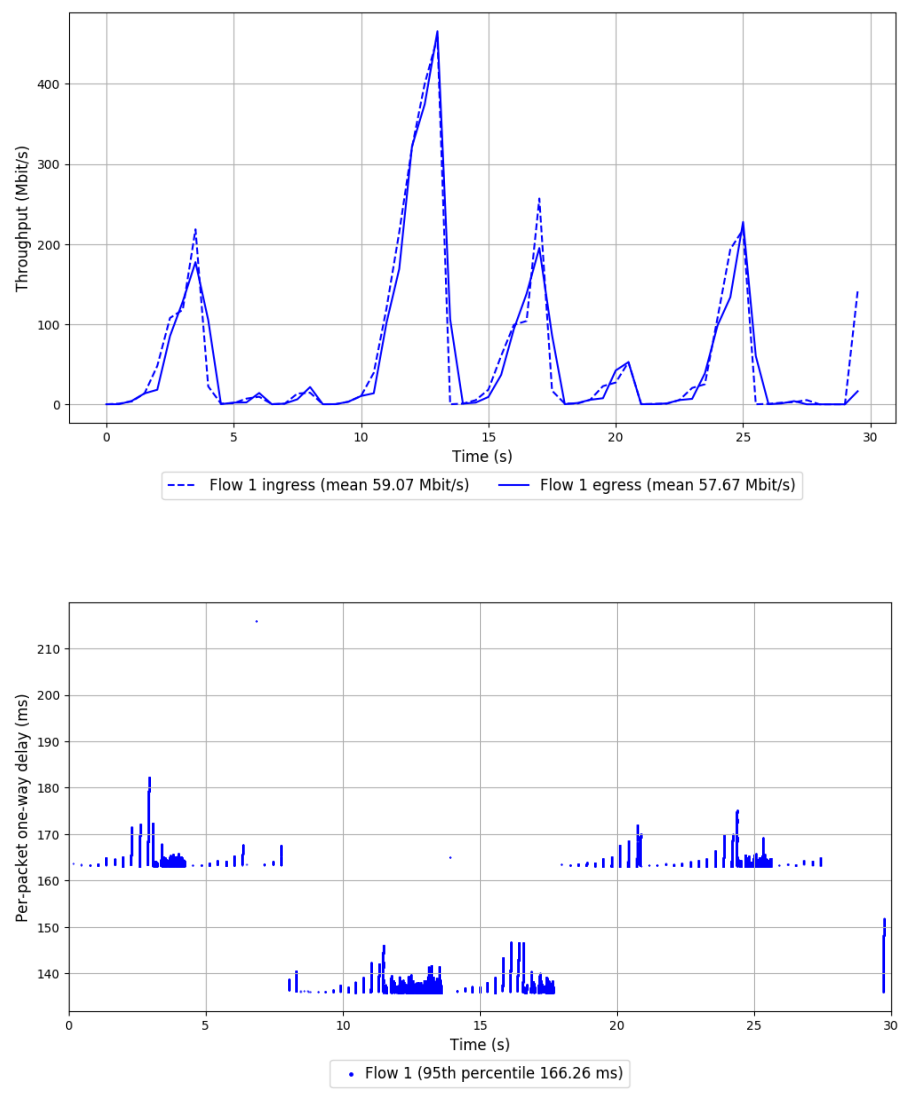
-- Flow 1:

Average throughput: 57.67 Mbit/s

95th percentile per-packet one-way delay: 166.260 ms

Loss rate: 3.69%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-31 02:50:29

End at: 2018-01-31 02:50:59

Below is generated by plot.py at 2018-01-31 06:08:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.28 Mbit/s

95th percentile per-packet one-way delay: 185.960 ms

Loss rate: 3.63%

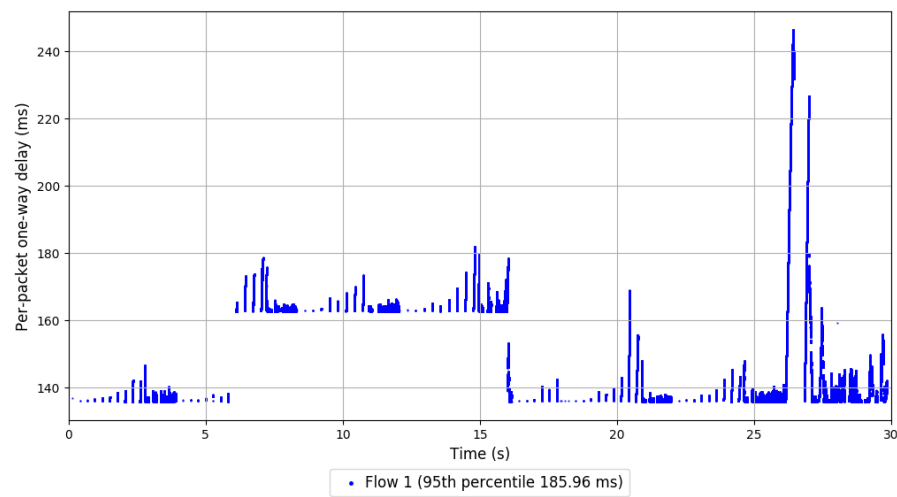
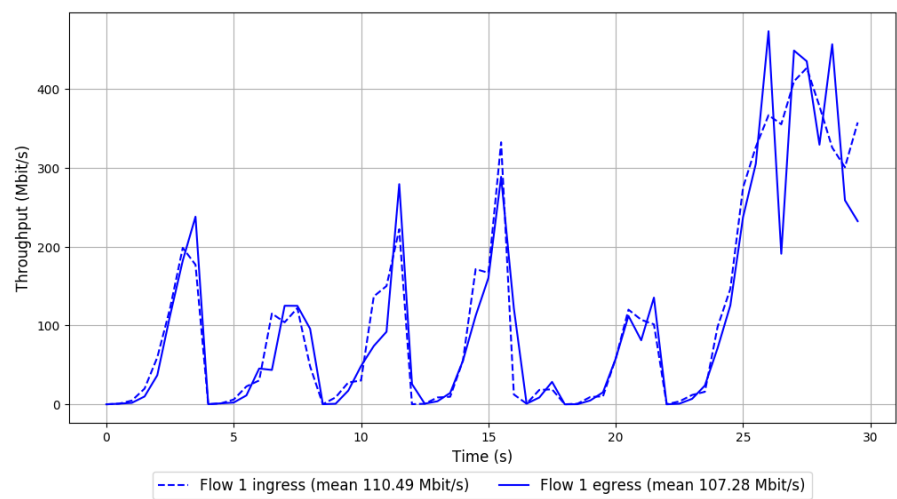
-- Flow 1:

Average throughput: 107.28 Mbit/s

95th percentile per-packet one-way delay: 185.960 ms

Loss rate: 3.63%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-31 03:05:20

End at: 2018-01-31 03:05:50

Below is generated by plot.py at 2018-01-31 06:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.58 Mbit/s

95th percentile per-packet one-way delay: 195.016 ms

Loss rate: 2.49%

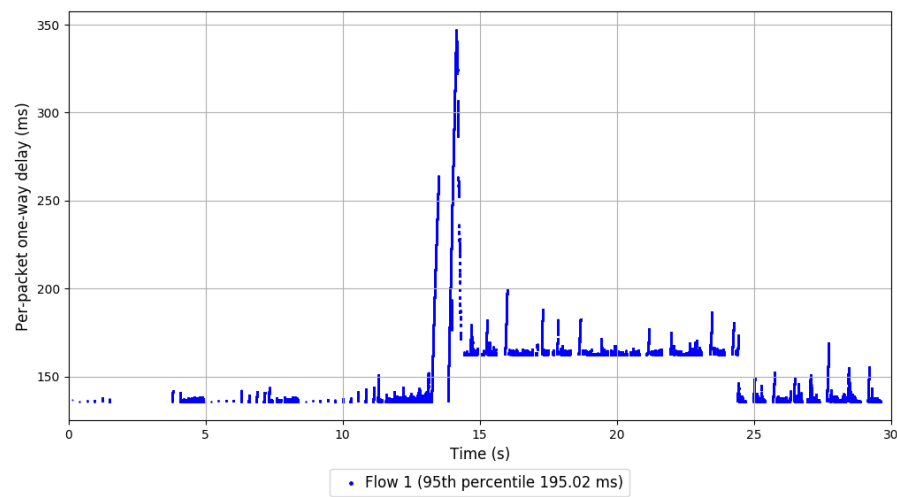
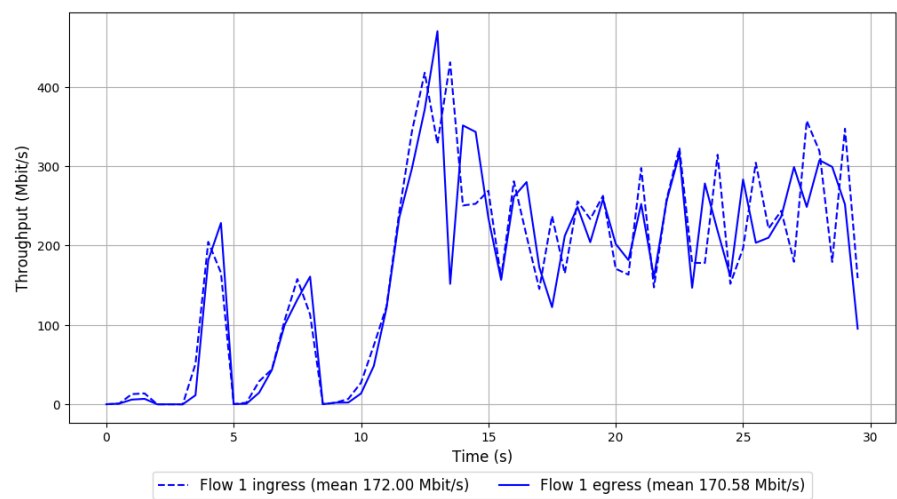
-- Flow 1:

Average throughput: 170.58 Mbit/s

95th percentile per-packet one-way delay: 195.016 ms

Loss rate: 2.49%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-31 00:55:37

End at: 2018-01-31 00:56:07

Below is generated by plot.py at 2018-01-31 06:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.71 Mbit/s

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

Loss rate: 1.22%

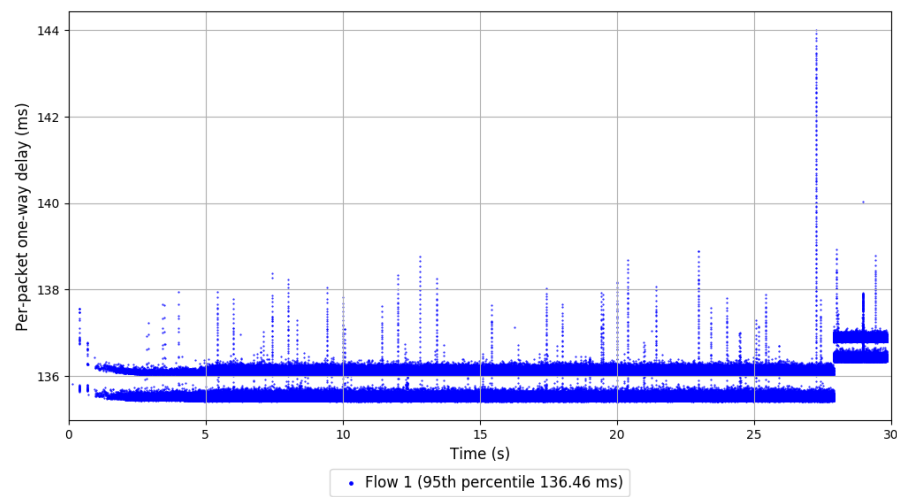
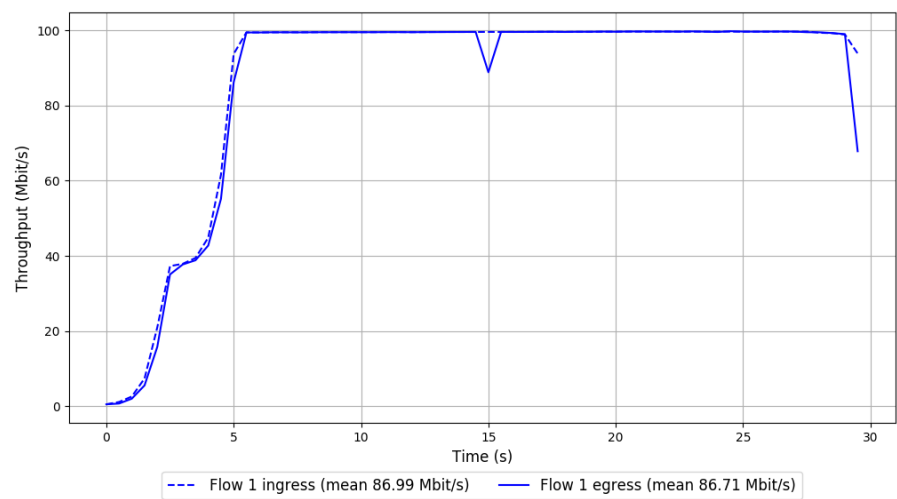
-- Flow 1:

Average throughput: 86.71 Mbit/s

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

Loss rate: 1.22%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-31 01:10:59

End at: 2018-01-31 01:11:29

Below is generated by plot.py at 2018-01-31 06:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.15 Mbit/s

95th percentile per-packet one-way delay: 136.165 ms

Loss rate: 0.69%

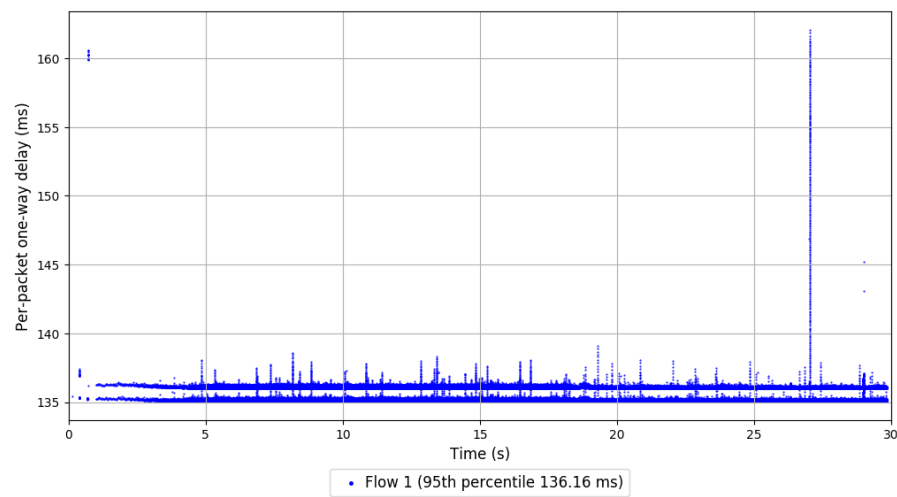
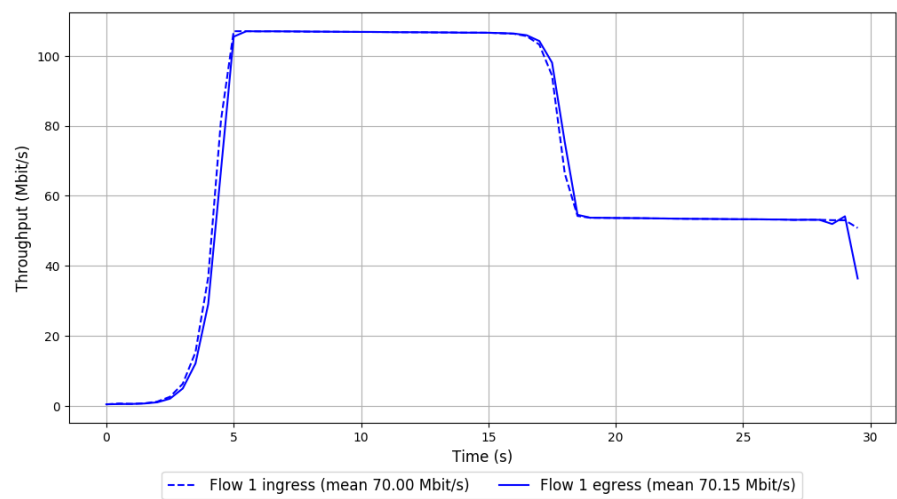
-- Flow 1:

Average throughput: 70.15 Mbit/s

95th percentile per-packet one-way delay: 136.165 ms

Loss rate: 0.69%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-31 01:25:52

End at: 2018-01-31 01:26:22

Below is generated by plot.py at 2018-01-31 06:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.90 Mbit/s

95th percentile per-packet one-way delay: 163.252 ms

Loss rate: 0.05%

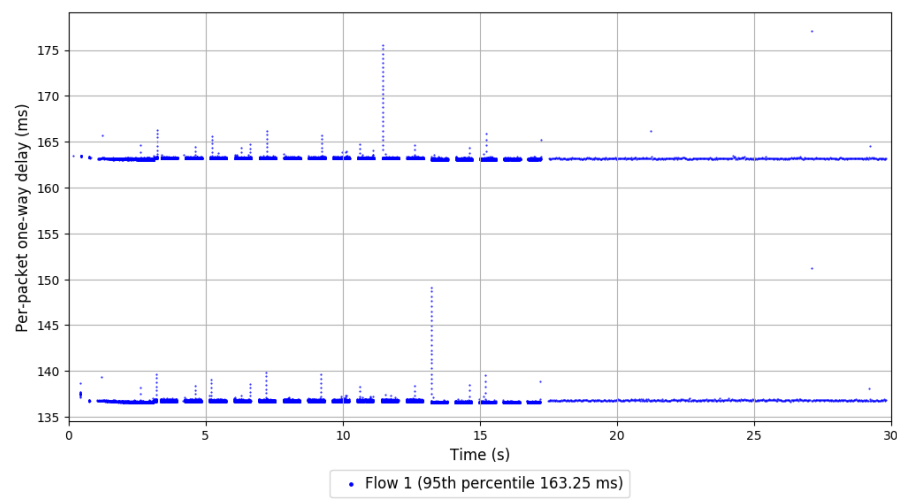
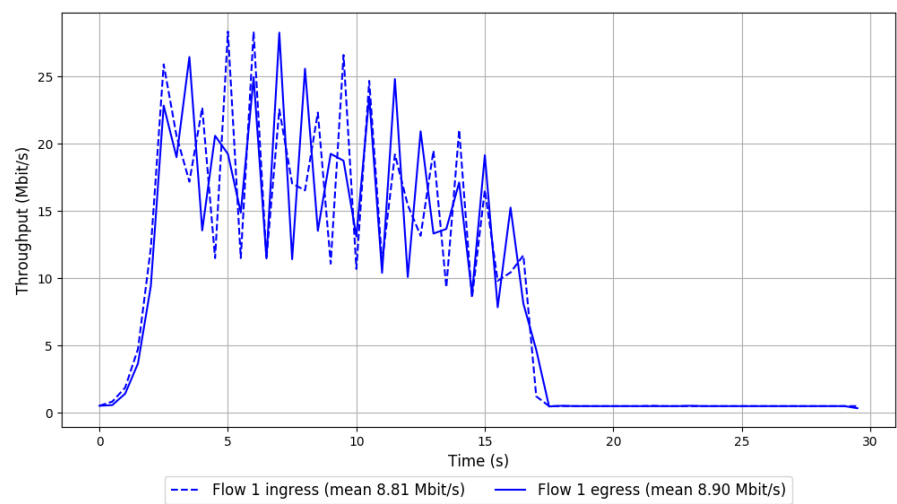
-- Flow 1:

Average throughput: 8.90 Mbit/s

95th percentile per-packet one-way delay: 163.252 ms

Loss rate: 0.05%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-31 01:40:10

End at: 2018-01-31 01:40:40

Below is generated by plot.py at 2018-01-31 06:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.32 Mbit/s

95th percentile per-packet one-way delay: 137.062 ms

Loss rate: 5.16%

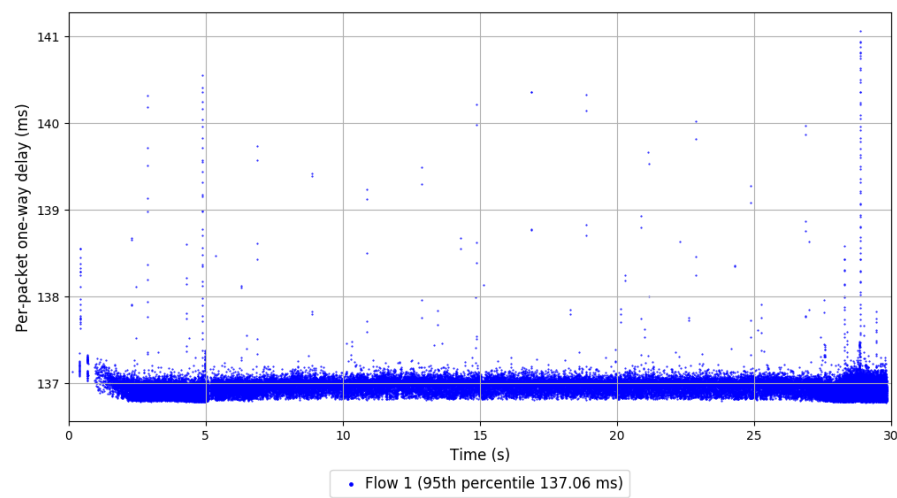
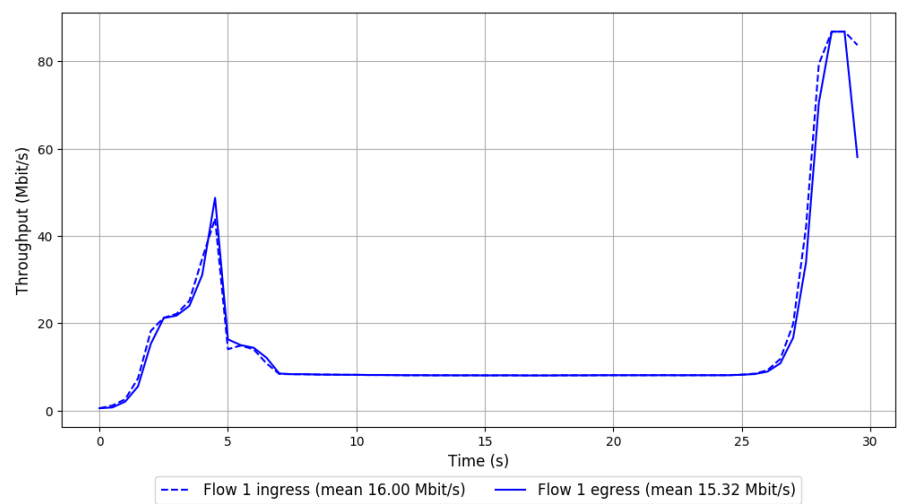
-- Flow 1:

Average throughput: 15.32 Mbit/s

95th percentile per-packet one-way delay: 137.062 ms

Loss rate: 5.16%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-31 01:54:43

End at: 2018-01-31 01:55:13

Below is generated by plot.py at 2018-01-31 06:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.07 Mbit/s

95th percentile per-packet one-way delay: 137.018 ms

Loss rate: 0.38%

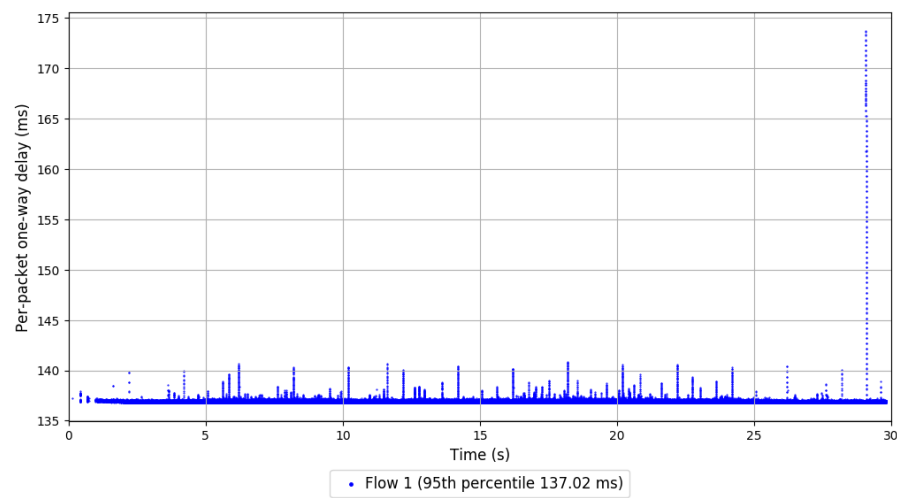
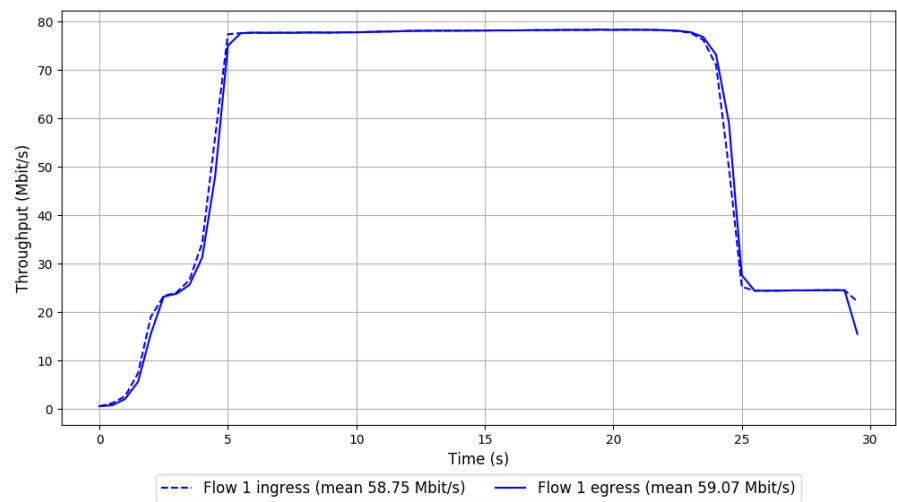
-- Flow 1:

Average throughput: 59.07 Mbit/s

95th percentile per-packet one-way delay: 137.018 ms

Loss rate: 0.38%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-31 02:10:26

End at: 2018-01-31 02:10:57

Below is generated by plot.py at 2018-01-31 06:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.56 Mbit/s

95th percentile per-packet one-way delay: 163.197 ms

Loss rate: 1.66%

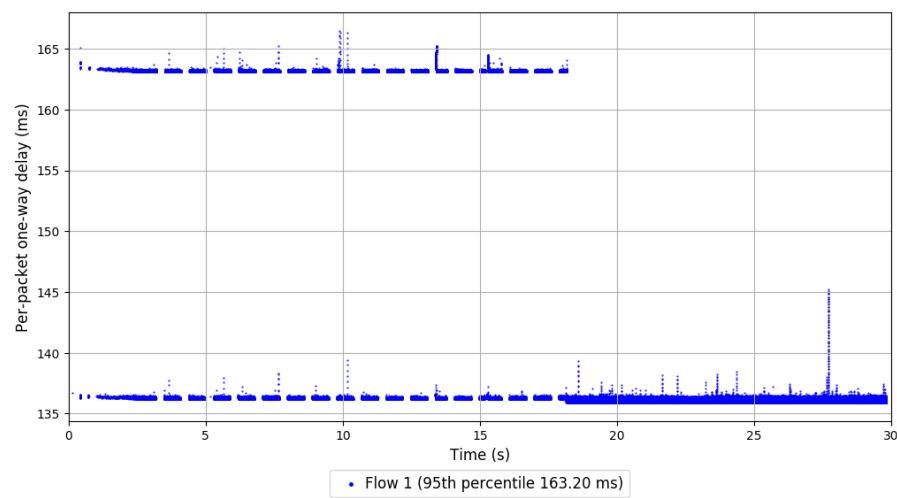
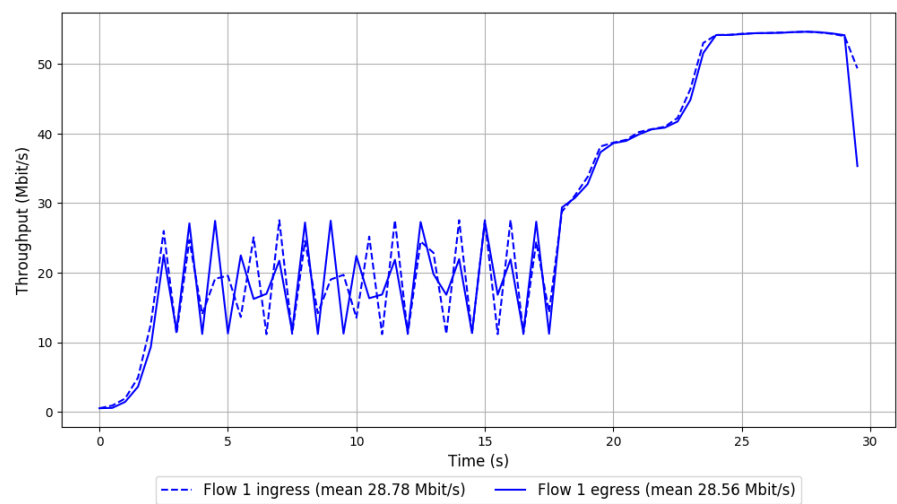
-- Flow 1:

Average throughput: 28.56 Mbit/s

95th percentile per-packet one-way delay: 163.197 ms

Loss rate: 1.66%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-31 02:25:59

End at: 2018-01-31 02:26:29

Below is generated by plot.py at 2018-01-31 06:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.03 Mbit/s

95th percentile per-packet one-way delay: 136.653 ms

Loss rate: 0.03%

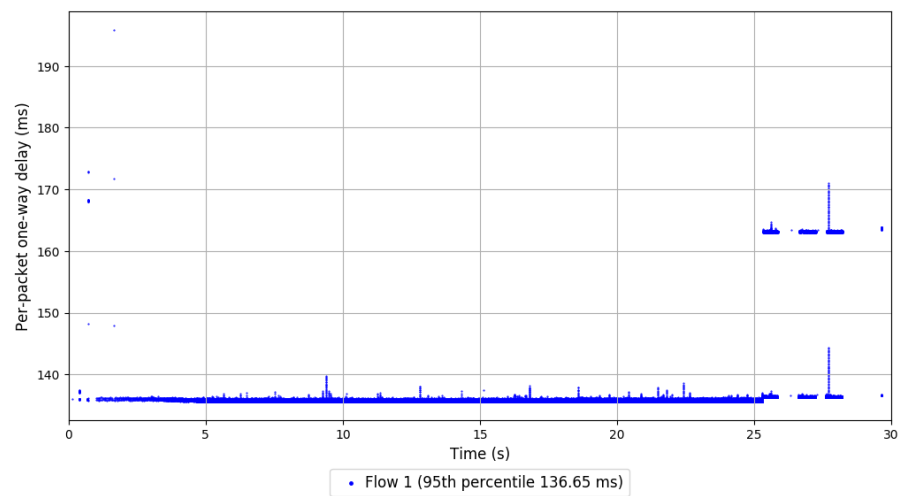
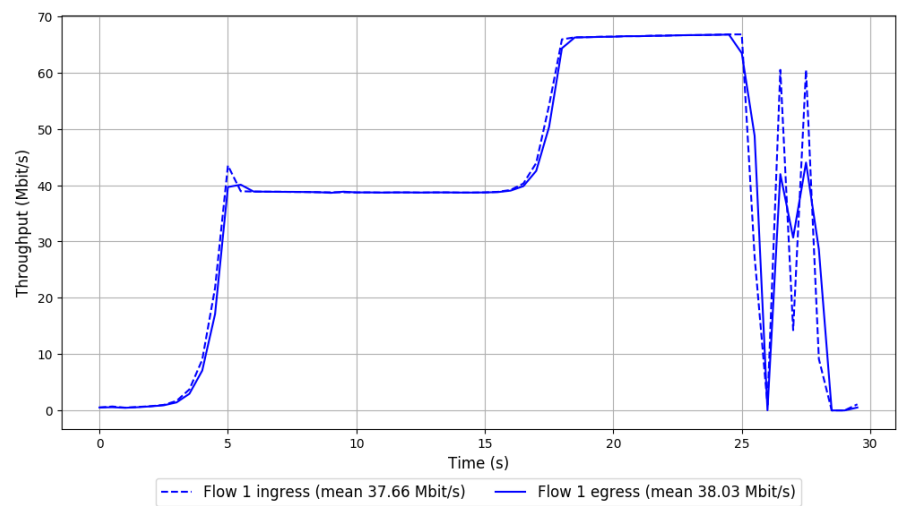
-- Flow 1:

Average throughput: 38.03 Mbit/s

95th percentile per-packet one-way delay: 136.653 ms

Loss rate: 0.03%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-31 02:41:14

End at: 2018-01-31 02:41:44

Below is generated by plot.py at 2018-01-31 06:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.55 Mbit/s

95th percentile per-packet one-way delay: 163.162 ms

Loss rate: 0.92%

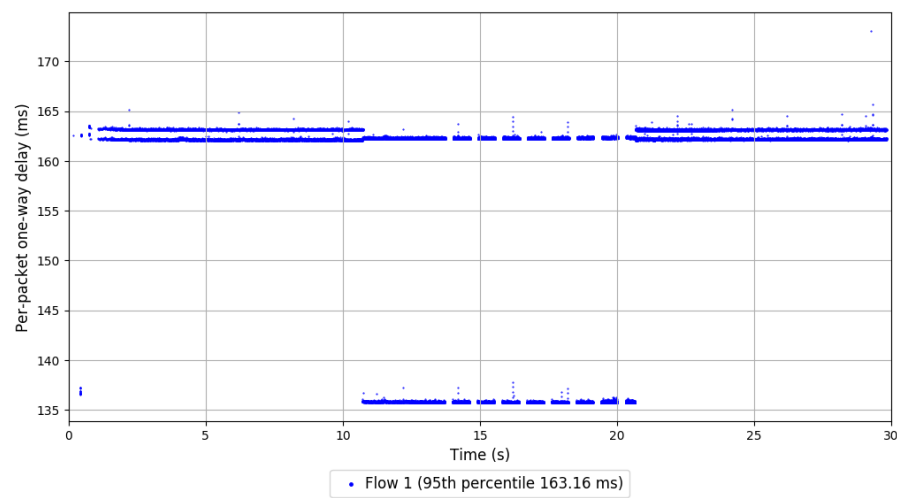
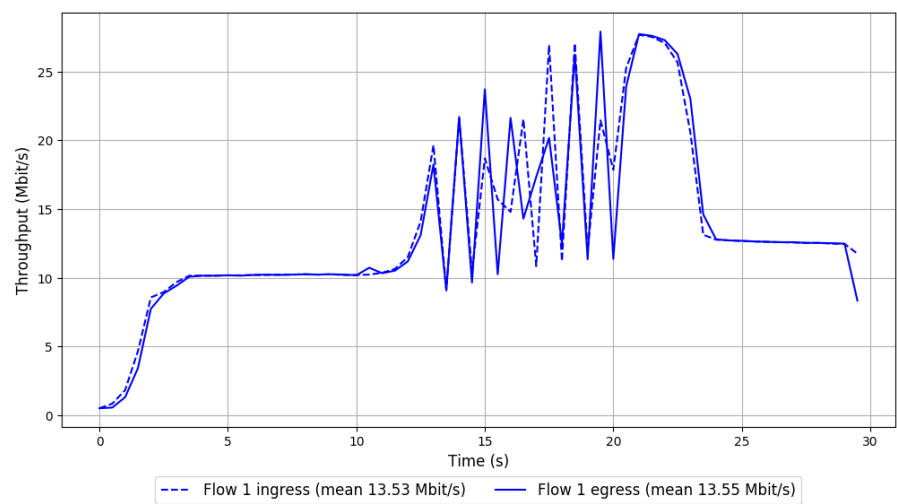
-- Flow 1:

Average throughput: 13.55 Mbit/s

95th percentile per-packet one-way delay: 163.162 ms

Loss rate: 0.92%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-31 02:56:10

End at: 2018-01-31 02:56:40

Below is generated by plot.py at 2018-01-31 06:09:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.94 Mbit/s

95th percentile per-packet one-way delay: 162.847 ms

Loss rate: 2.31%

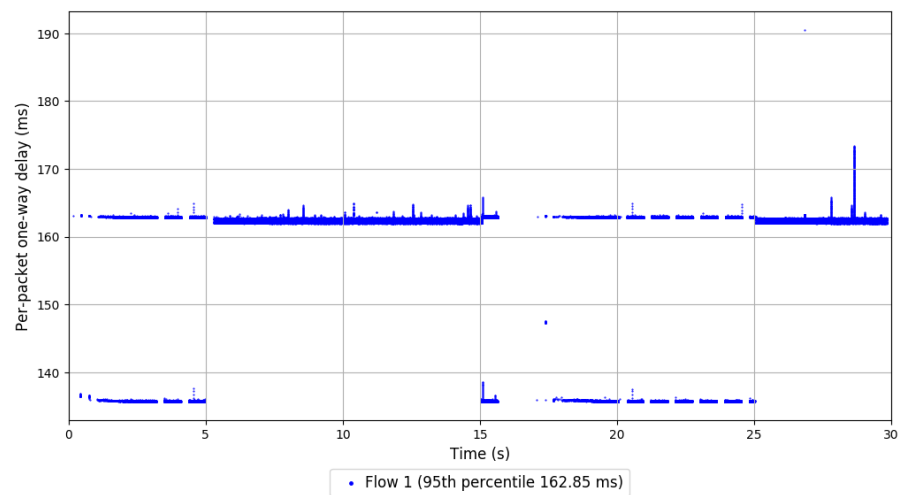
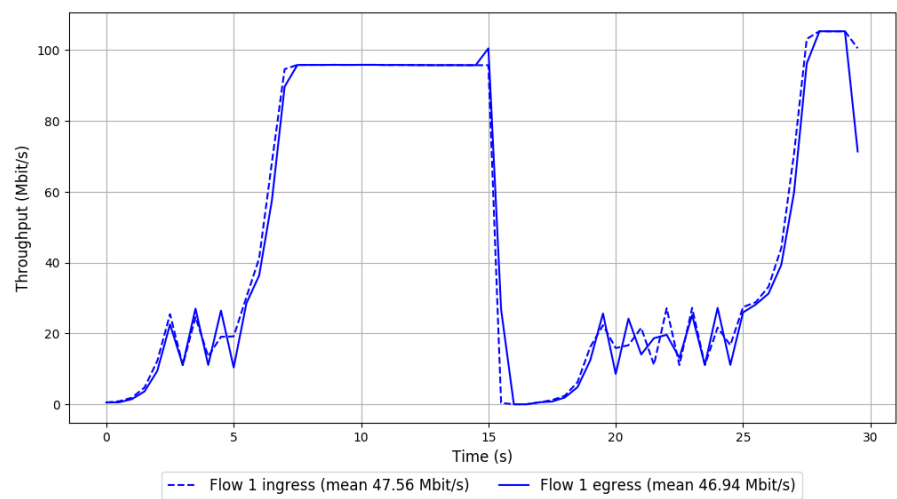
-- Flow 1:

Average throughput: 46.94 Mbit/s

95th percentile per-packet one-way delay: 162.847 ms

Loss rate: 2.31%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-31 03:10:55

End at: 2018-01-31 03:11:25

Below is generated by plot.py at 2018-01-31 06:09:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.55 Mbit/s

95th percentile per-packet one-way delay: 162.237 ms

Loss rate: 0.68%

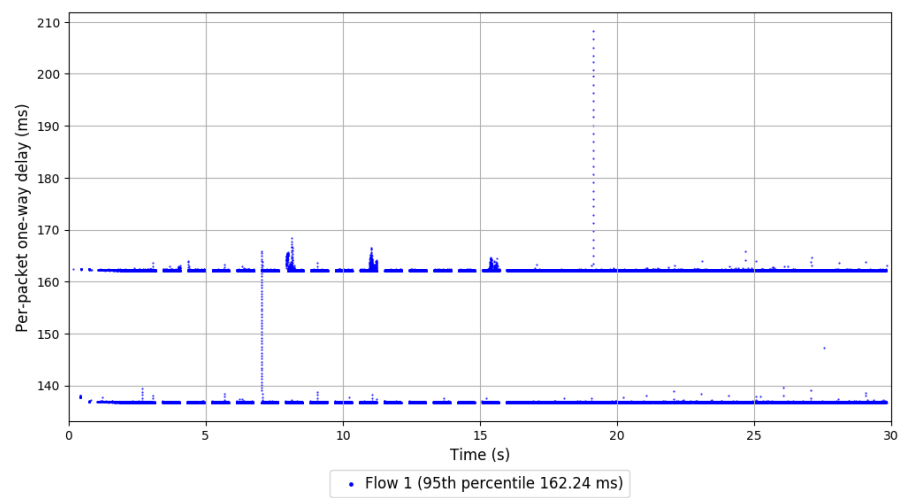
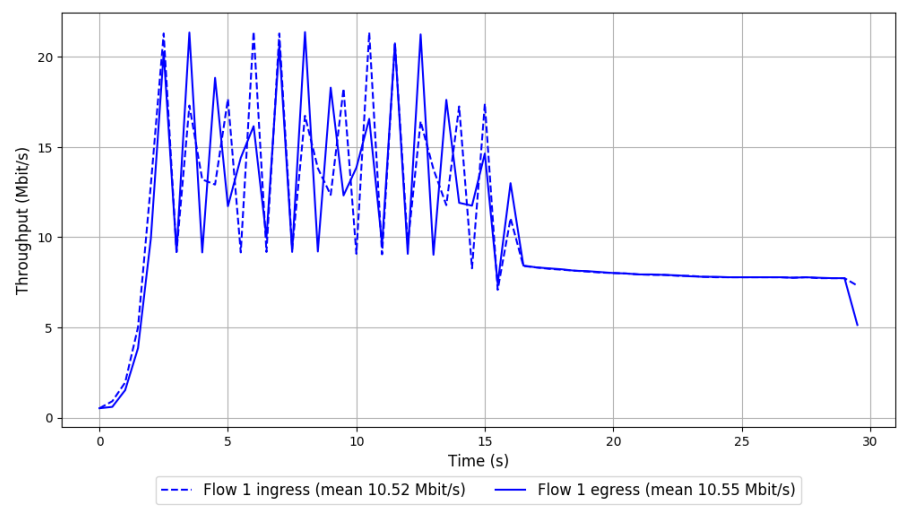
-- Flow 1:

Average throughput: 10.55 Mbit/s

95th percentile per-packet one-way delay: 162.237 ms

Loss rate: 0.68%

Run 10: Report of Copa — Data Link

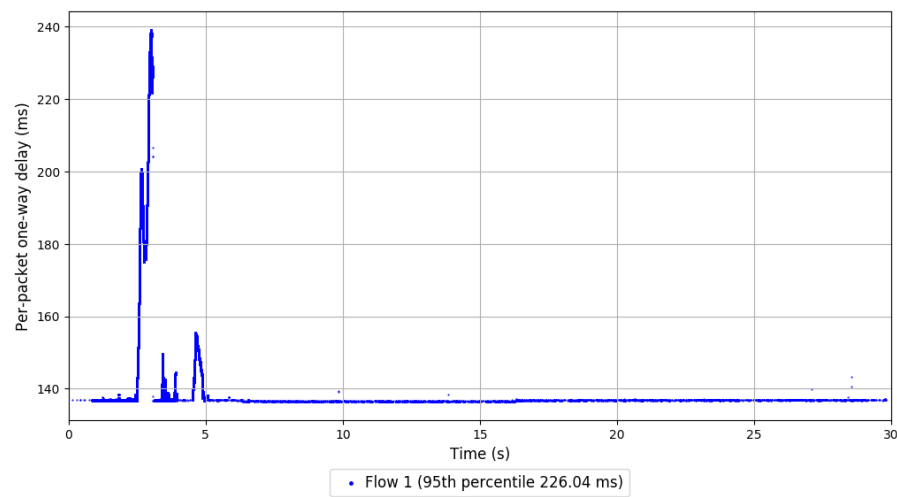
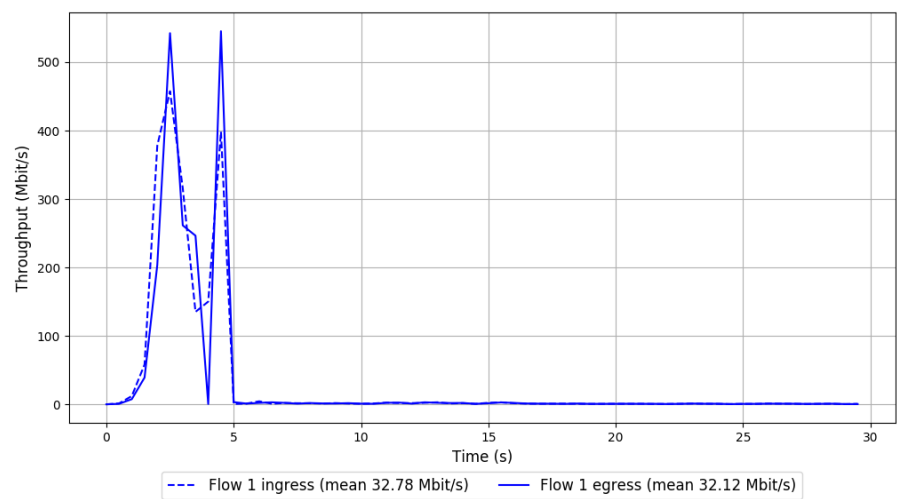


```
Run 1: Statistics of FillP

Start at: 2018-01-31 00:56:28
End at: 2018-01-31 00:56:58

# Below is generated by plot.py at 2018-01-31 06:09:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.12 Mbit/s
95th percentile per-packet one-way delay: 226.045 ms
Loss rate: 2.91%
-- Flow 1:
Average throughput: 32.12 Mbit/s
95th percentile per-packet one-way delay: 226.045 ms
Loss rate: 2.91%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-01-31 01:11:49

End at: 2018-01-31 01:12:19

Below is generated by plot.py at 2018-01-31 06:09:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.51 Mbit/s

95th percentile per-packet one-way delay: 260.333 ms

Loss rate: 7.34%

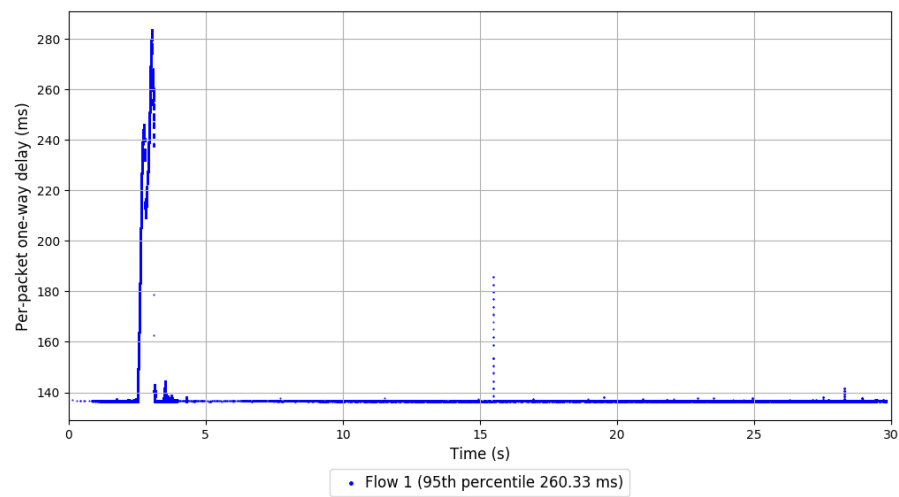
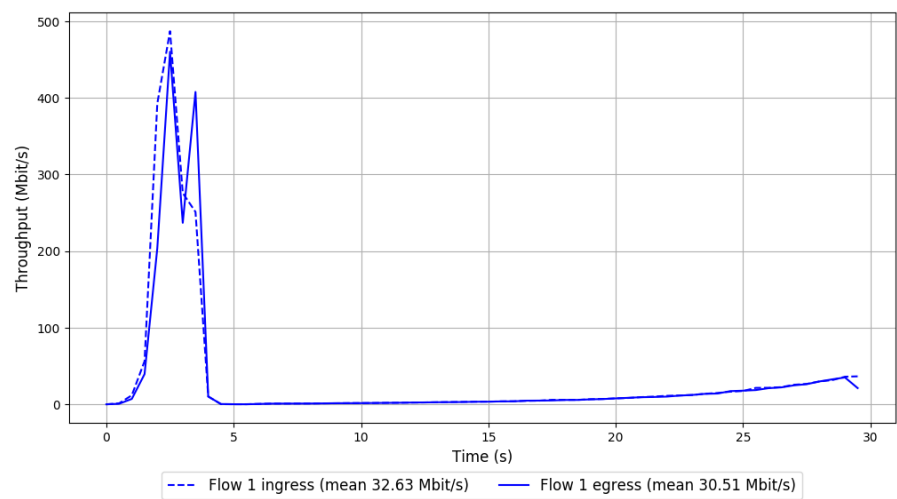
-- Flow 1:

Average throughput: 30.51 Mbit/s

95th percentile per-packet one-way delay: 260.333 ms

Loss rate: 7.34%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-31 01:26:36

End at: 2018-01-31 01:27:06

Below is generated by plot.py at 2018-01-31 06:10:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.00 Mbit/s

95th percentile per-packet one-way delay: 333.948 ms

Loss rate: 6.94%

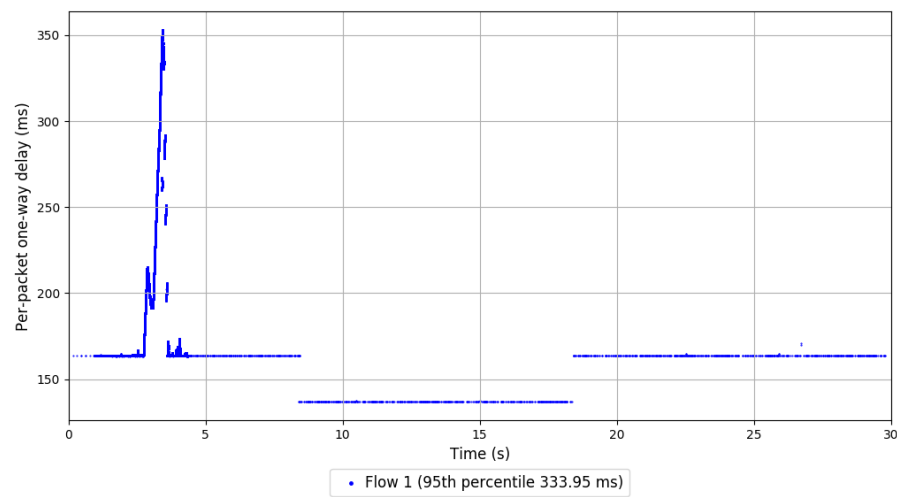
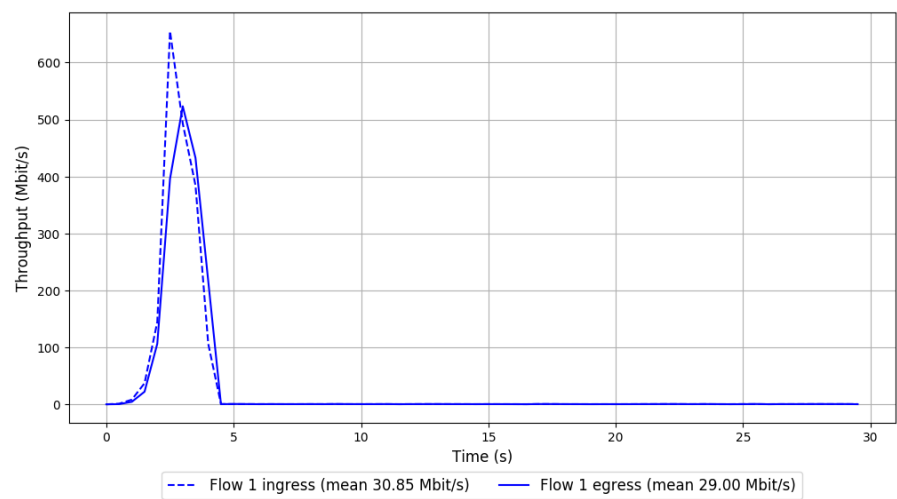
-- Flow 1:

Average throughput: 29.00 Mbit/s

95th percentile per-packet one-way delay: 333.948 ms

Loss rate: 6.94%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-31 01:40:55

End at: 2018-01-31 01:41:26

Below is generated by plot.py at 2018-01-31 06:10:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.60 Mbit/s

95th percentile per-packet one-way delay: 302.805 ms

Loss rate: 5.72%

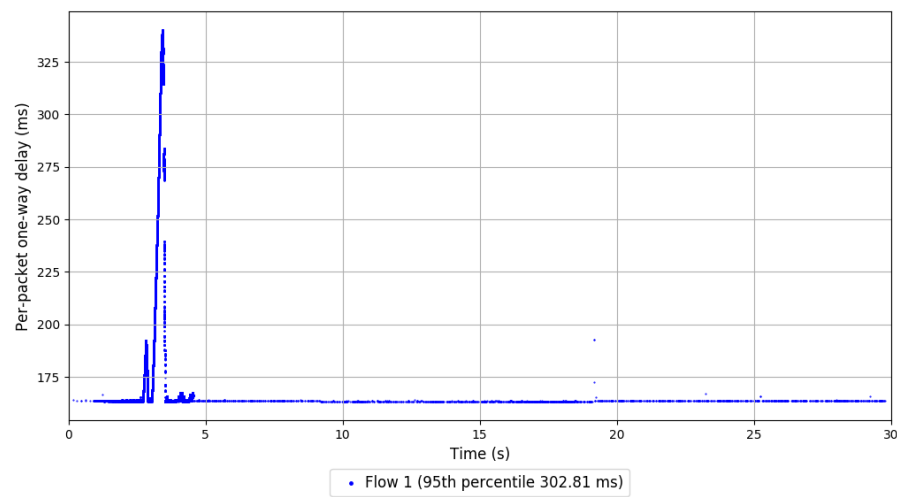
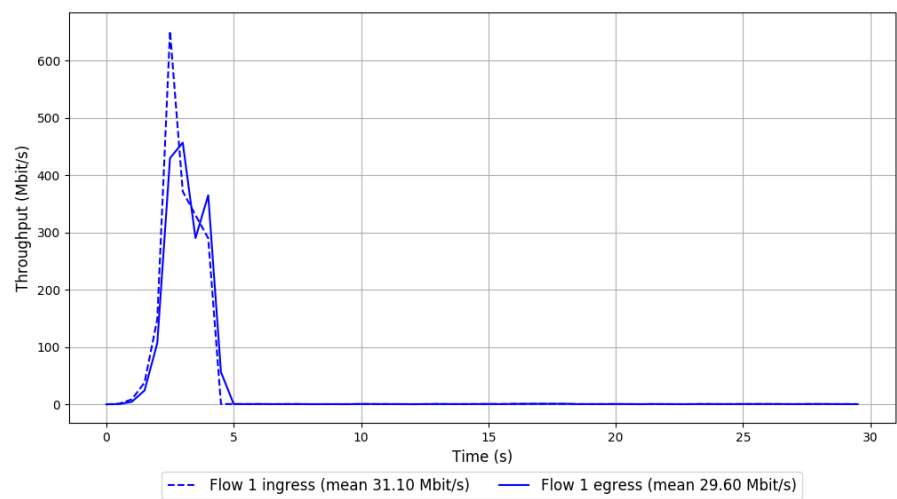
-- Flow 1:

Average throughput: 29.60 Mbit/s

95th percentile per-packet one-way delay: 302.805 ms

Loss rate: 5.72%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-31 01:55:31

End at: 2018-01-31 01:56:01

Below is generated by plot.py at 2018-01-31 06:10:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.47 Mbit/s

95th percentile per-packet one-way delay: 277.837 ms

Loss rate: 8.80%

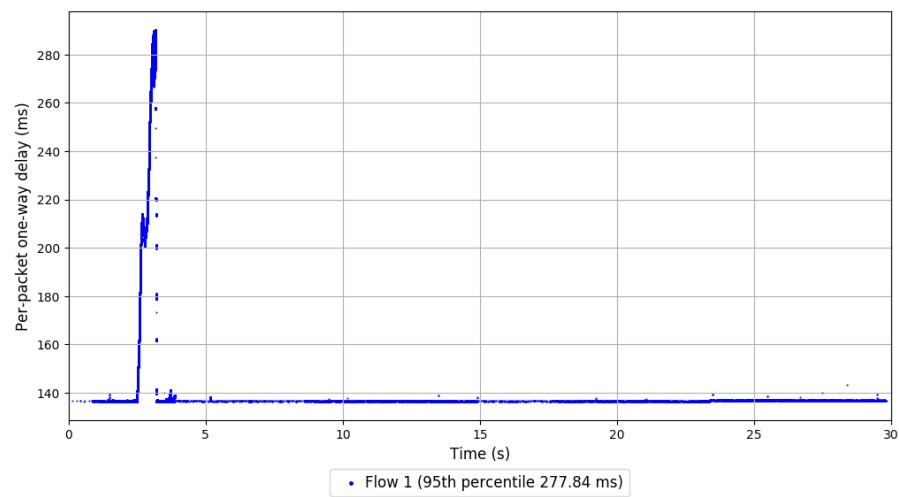
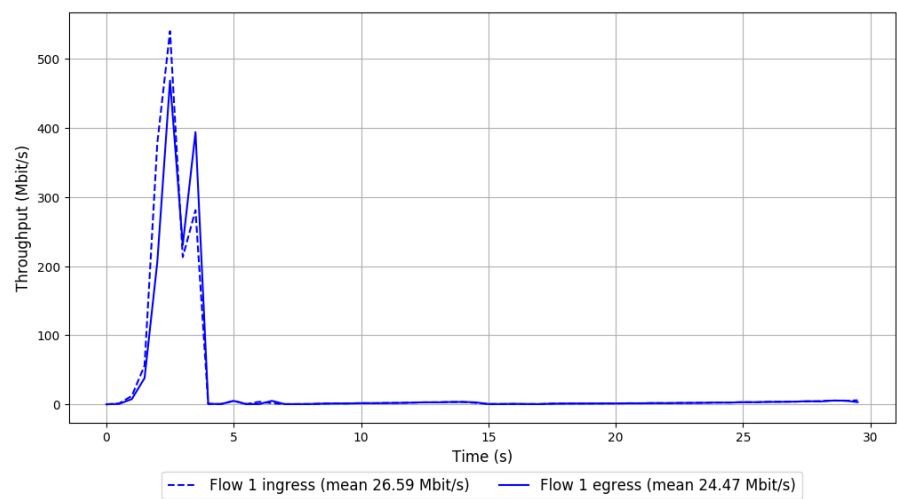
-- Flow 1:

Average throughput: 24.47 Mbit/s

95th percentile per-packet one-way delay: 277.837 ms

Loss rate: 8.80%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-31 02:11:12

End at: 2018-01-31 02:11:42

Below is generated by plot.py at 2018-01-31 06:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.04 Mbit/s

95th percentile per-packet one-way delay: 228.475 ms

Loss rate: 2.80%

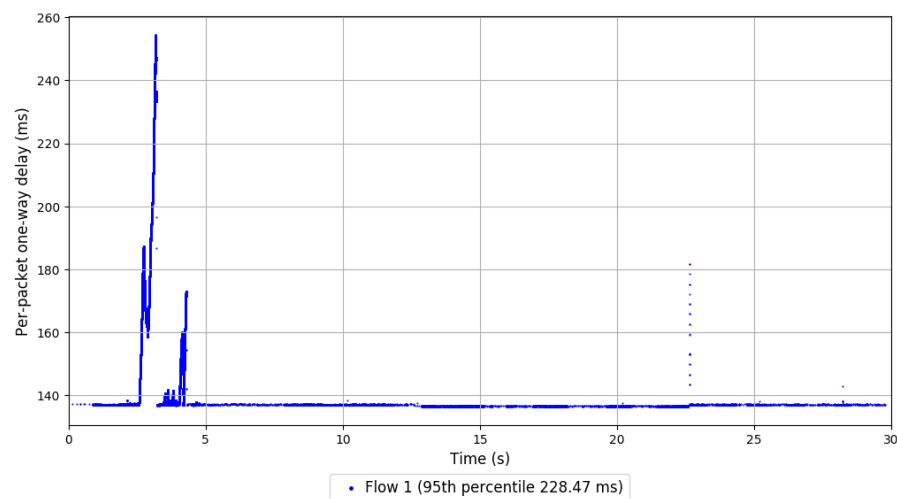
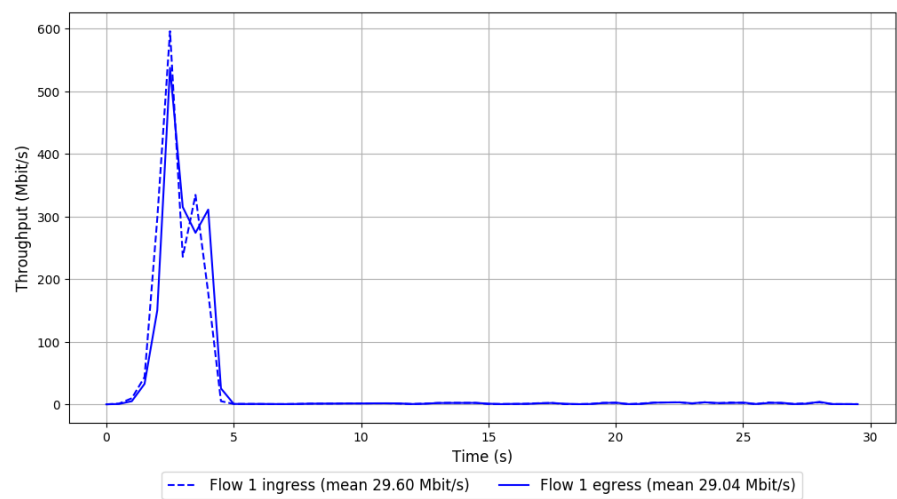
-- Flow 1:

Average throughput: 29.04 Mbit/s

95th percentile per-packet one-way delay: 228.475 ms

Loss rate: 2.80%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-31 02:26:46

End at: 2018-01-31 02:27:17

Below is generated by plot.py at 2018-01-31 06:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.91 Mbit/s

95th percentile per-packet one-way delay: 267.913 ms

Loss rate: 5.64%

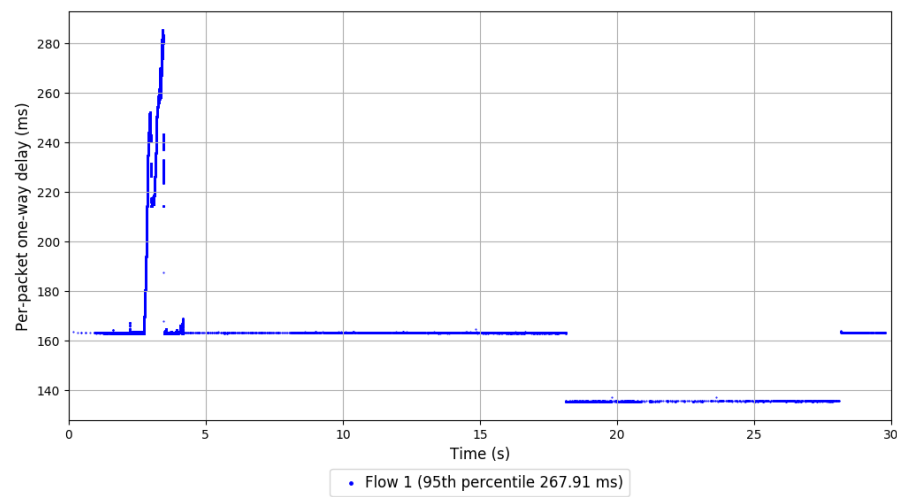
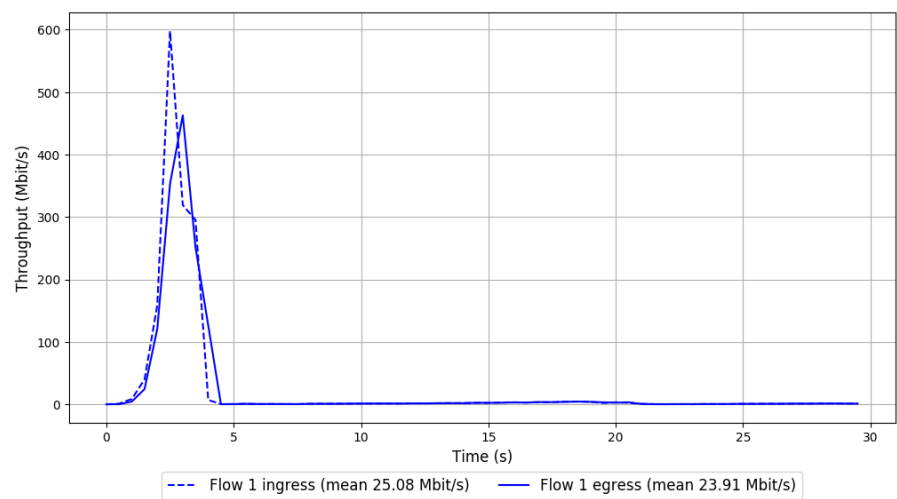
-- Flow 1:

Average throughput: 23.91 Mbit/s

95th percentile per-packet one-way delay: 267.913 ms

Loss rate: 5.64%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-31 02:41:59

End at: 2018-01-31 02:42:29

Below is generated by plot.py at 2018-01-31 06:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.76 Mbit/s

95th percentile per-packet one-way delay: 257.208 ms

Loss rate: 4.35%

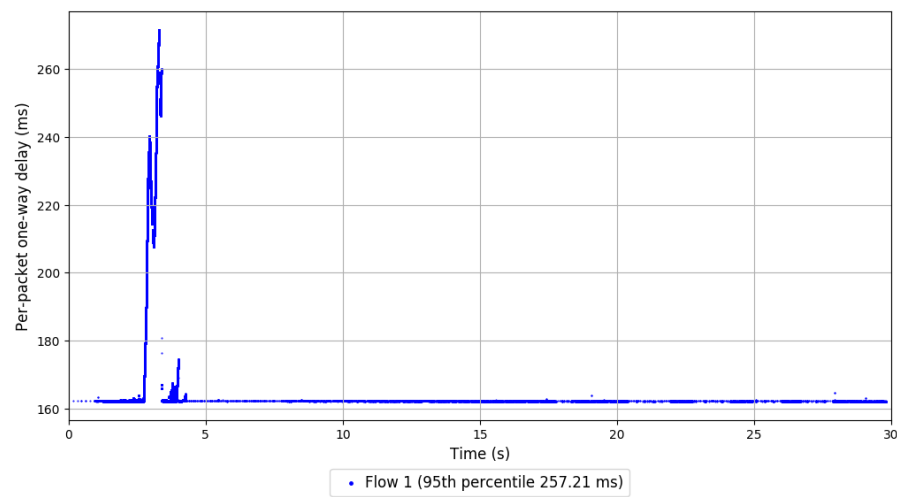
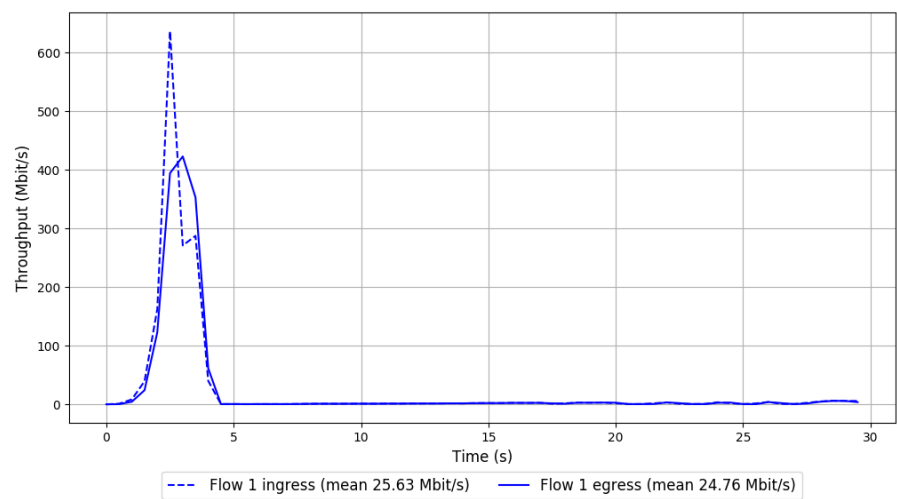
-- Flow 1:

Average throughput: 24.76 Mbit/s

95th percentile per-packet one-way delay: 257.208 ms

Loss rate: 4.35%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-31 02:56:58

End at: 2018-01-31 02:57:28

Below is generated by plot.py at 2018-01-31 06:10:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.40 Mbit/s

95th percentile per-packet one-way delay: 331.992 ms

Loss rate: 6.85%

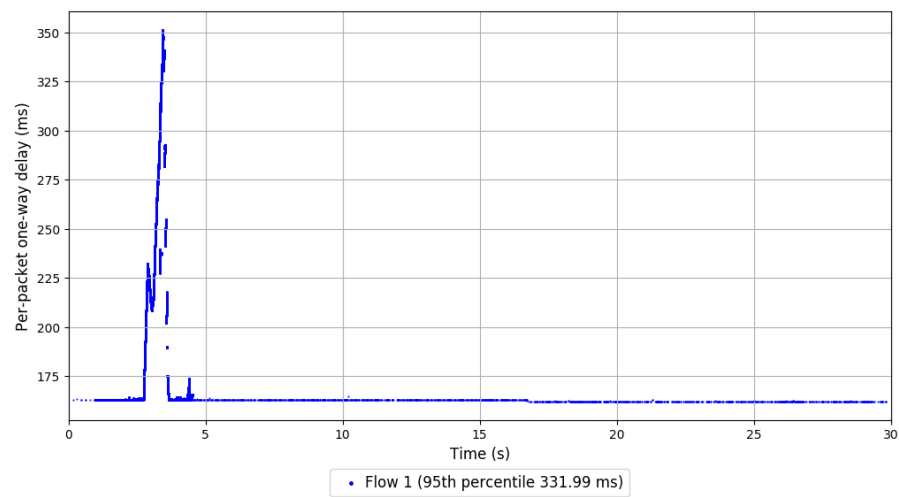
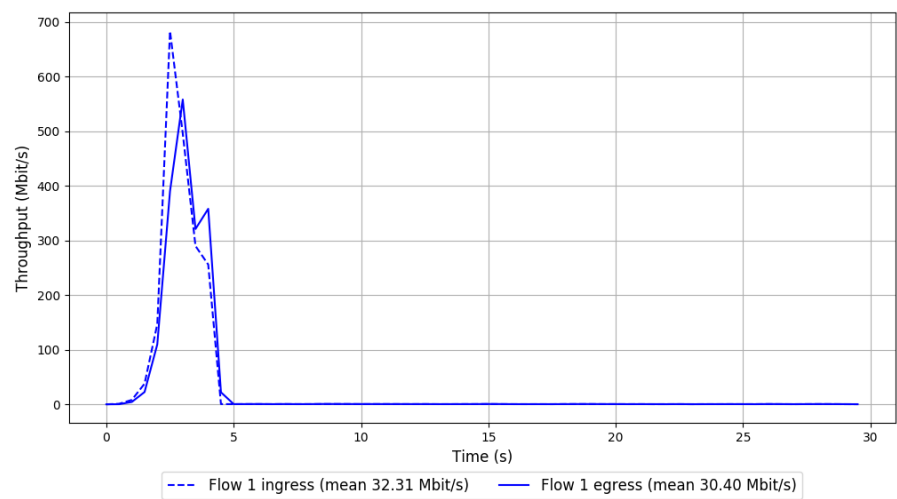
-- Flow 1:

Average throughput: 30.40 Mbit/s

95th percentile per-packet one-way delay: 331.992 ms

Loss rate: 6.85%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-31 03:11:39

End at: 2018-01-31 03:12:09

Below is generated by plot.py at 2018-01-31 06:10:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.59 Mbit/s

95th percentile per-packet one-way delay: 260.545 ms

Loss rate: 9.69%

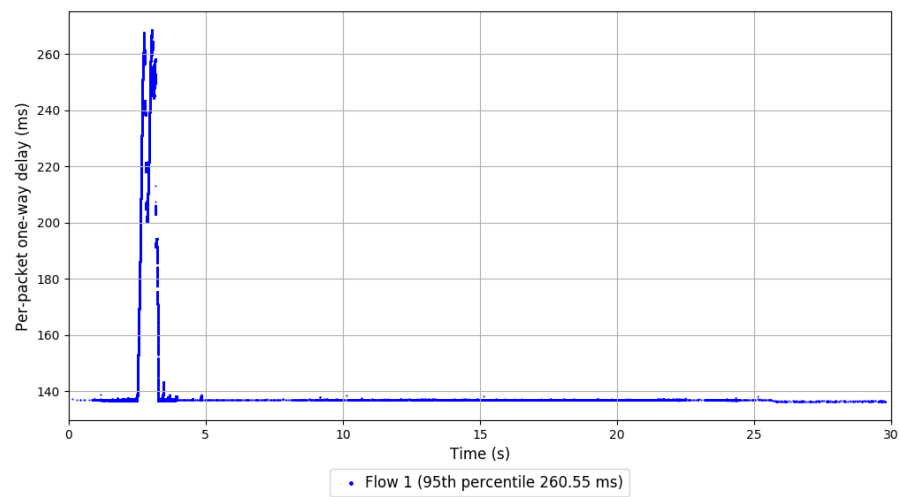
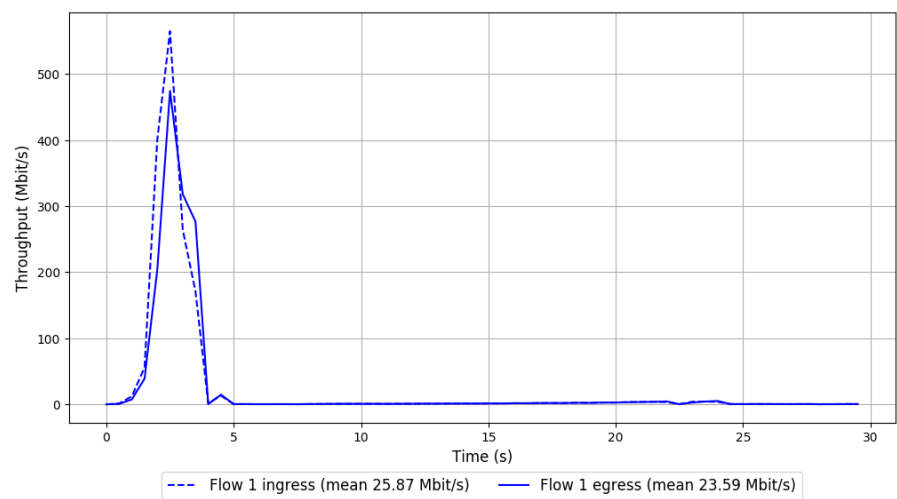
-- Flow 1:

Average throughput: 23.59 Mbit/s

95th percentile per-packet one-way delay: 260.545 ms

Loss rate: 9.69%

Run 10: Report of FillP — Data Link

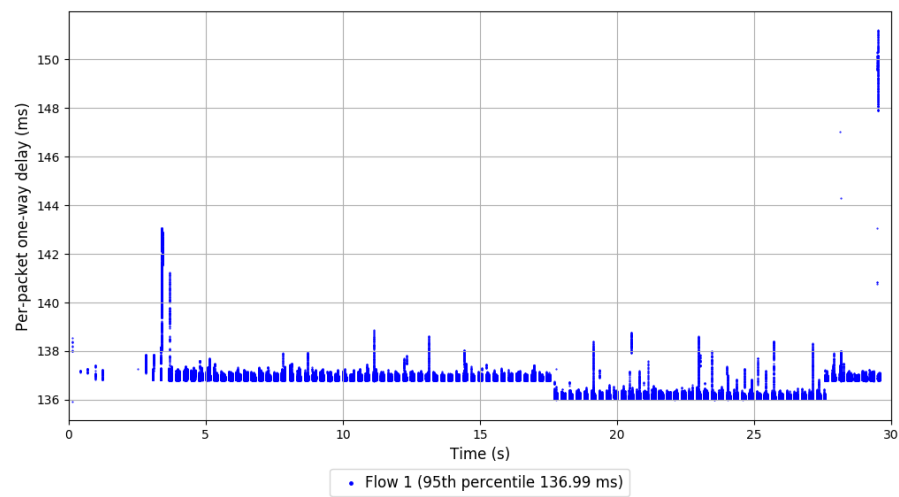
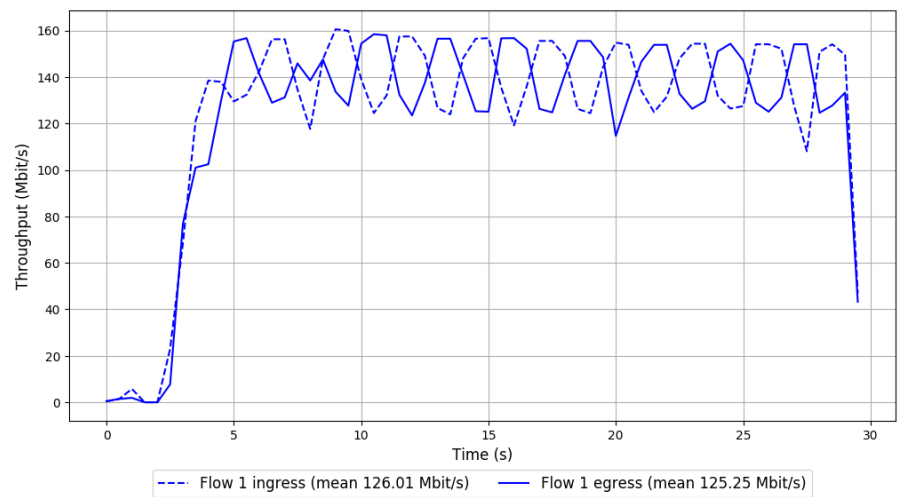


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-01-31 00:44:57
End at: 2018-01-31 00:45:27

# Below is generated by plot.py at 2018-01-31 06:11:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 125.25 Mbit/s
95th percentile per-packet one-way delay: 136.991 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 125.25 Mbit/s
95th percentile per-packet one-way delay: 136.991 ms
Loss rate: 1.51%
```

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

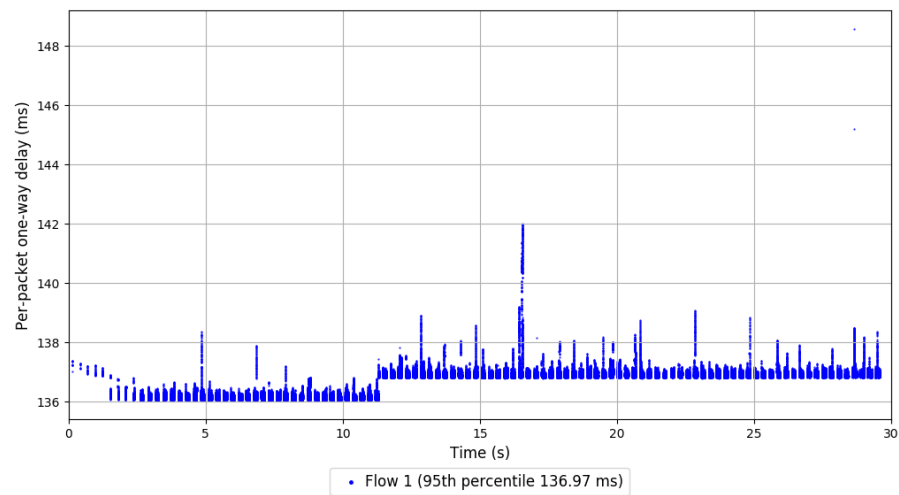
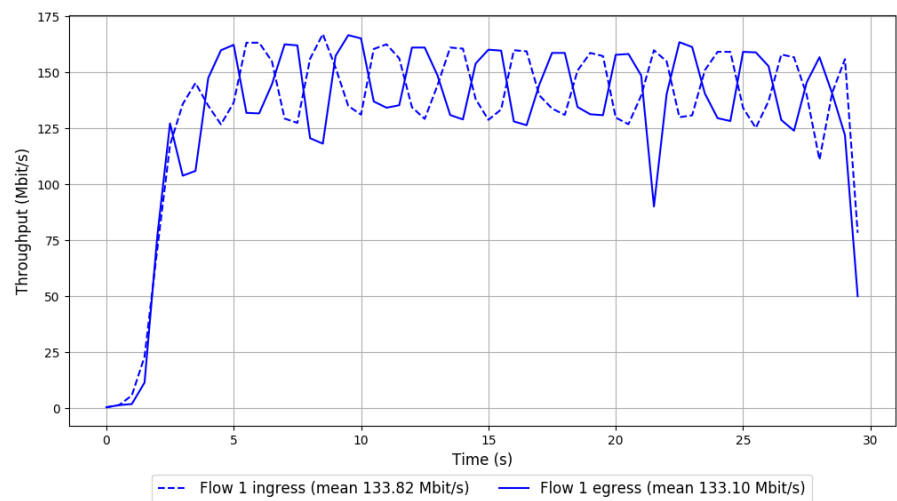


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-01-31 00:59:53
End at: 2018-01-31 01:00:23

# Below is generated by plot.py at 2018-01-31 06:12:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 133.10 Mbit/s
95th percentile per-packet one-way delay: 136.975 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 133.10 Mbit/s
95th percentile per-packet one-way delay: 136.975 ms
Loss rate: 1.46%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-01-31 01:15:14

End at: 2018-01-31 01:15:44

Below is generated by plot.py at 2018-01-31 06:12:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 136.39 Mbit/s

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

Loss rate: 1.26%

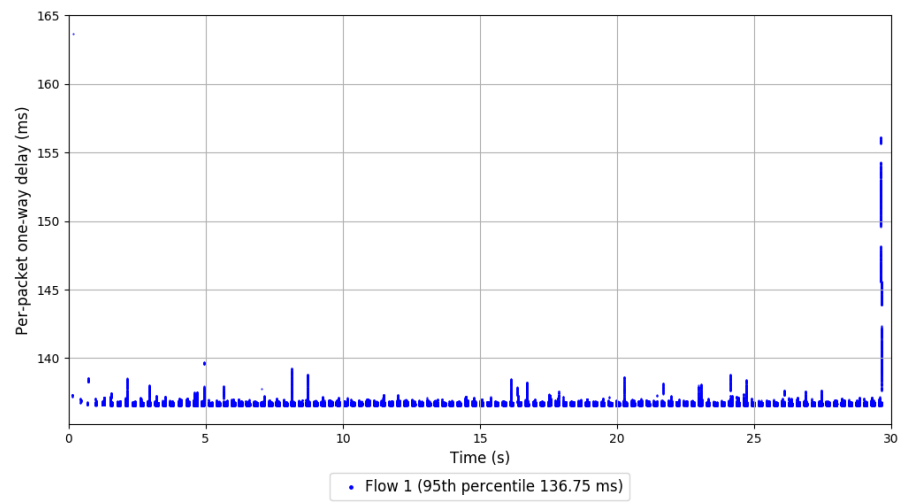
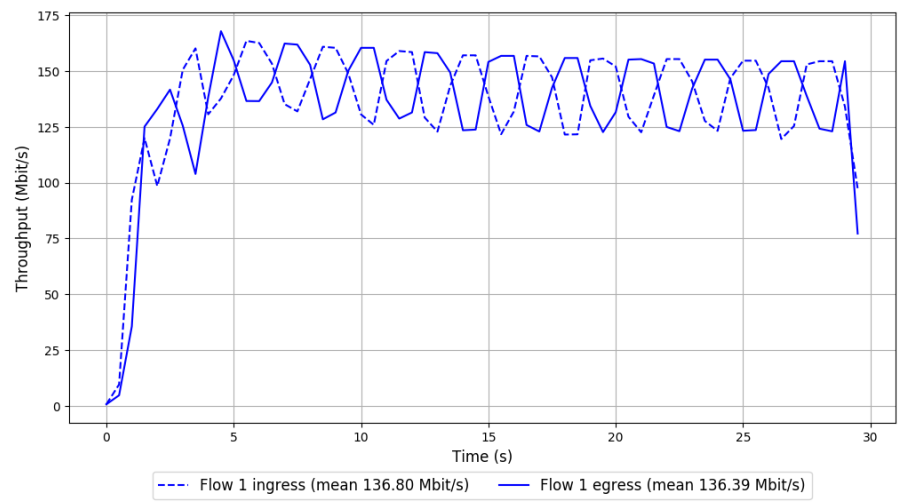
-- Flow 1:

Average throughput: 136.39 Mbit/s

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

Loss rate: 1.26%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-01-31 01:29:42

End at: 2018-01-31 01:30:12

Below is generated by plot.py at 2018-01-31 06:12:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.38 Mbit/s

95th percentile per-packet one-way delay: 163.302 ms

Loss rate: 1.64%

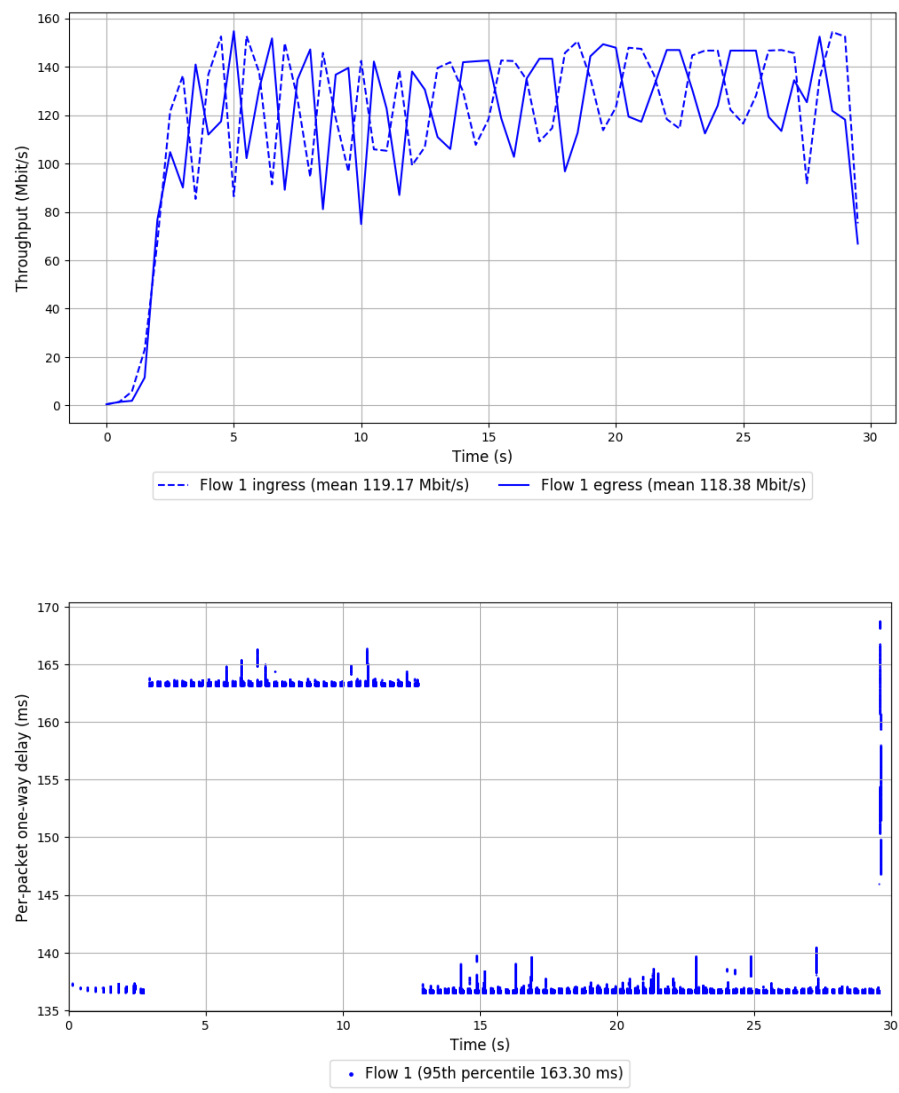
-- Flow 1:

Average throughput: 118.38 Mbit/s

95th percentile per-packet one-way delay: 163.302 ms

Loss rate: 1.64%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-01-31 01:44:19

End at: 2018-01-31 01:44:49

Below is generated by plot.py at 2018-01-31 06:13:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.02 Mbit/s

95th percentile per-packet one-way delay: 163.313 ms

Loss rate: 1.30%

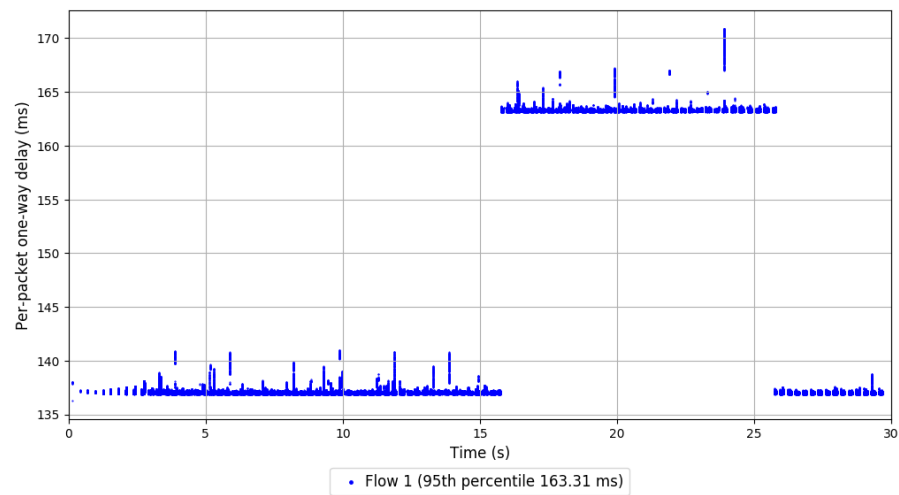
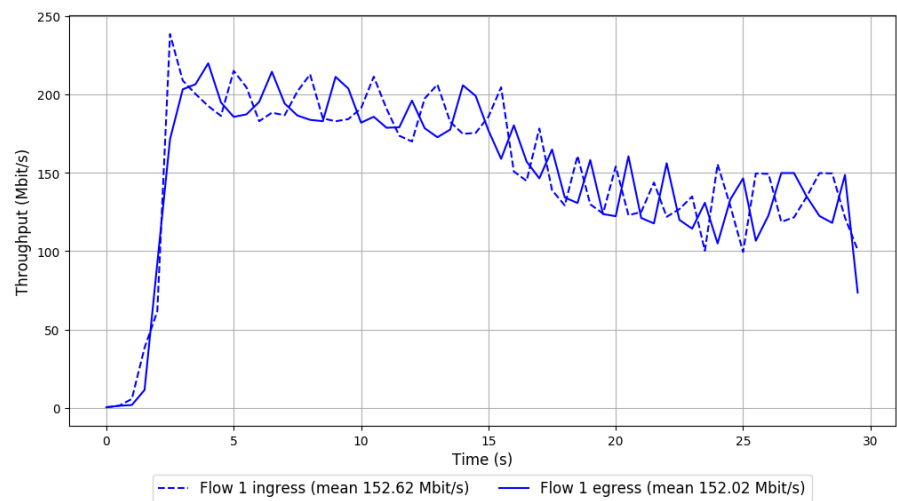
-- Flow 1:

Average throughput: 152.02 Mbit/s

95th percentile per-packet one-way delay: 163.313 ms

Loss rate: 1.30%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-01-31 01:58:58

End at: 2018-01-31 01:59:28

Below is generated by plot.py at 2018-01-31 06:13:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.53 Mbit/s

95th percentile per-packet one-way delay: 137.177 ms

Loss rate: 0.86%

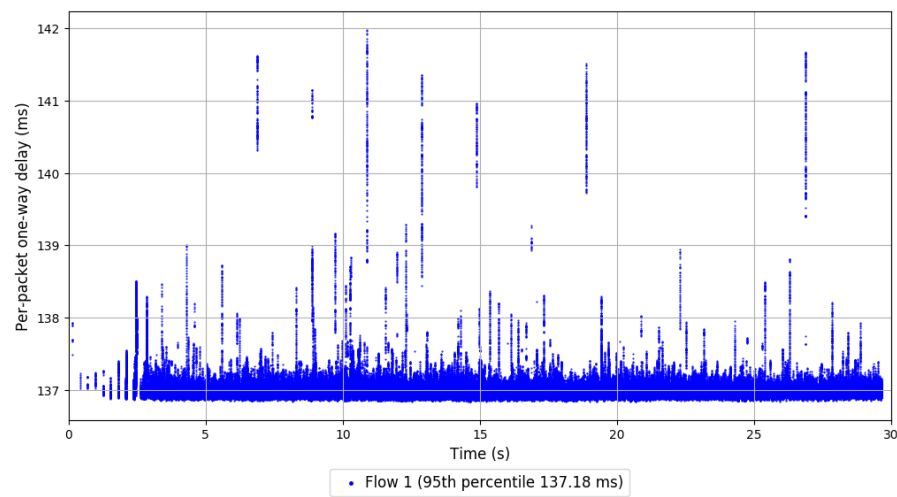
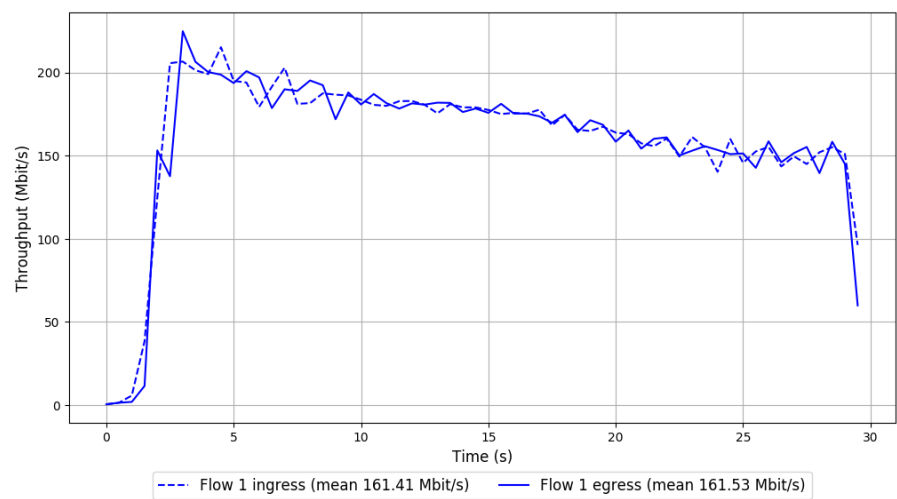
-- Flow 1:

Average throughput: 161.53 Mbit/s

95th percentile per-packet one-way delay: 137.177 ms

Loss rate: 0.86%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-01-31 02:14:36

End at: 2018-01-31 02:15:06

Below is generated by plot.py at 2018-01-31 06:13:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 124.45 Mbit/s

95th percentile per-packet one-way delay: 163.252 ms

Loss rate: 1.22%

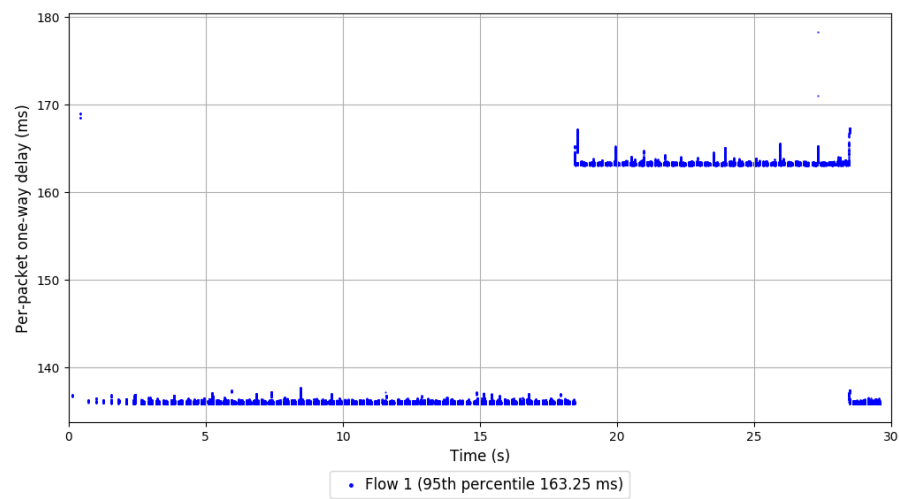
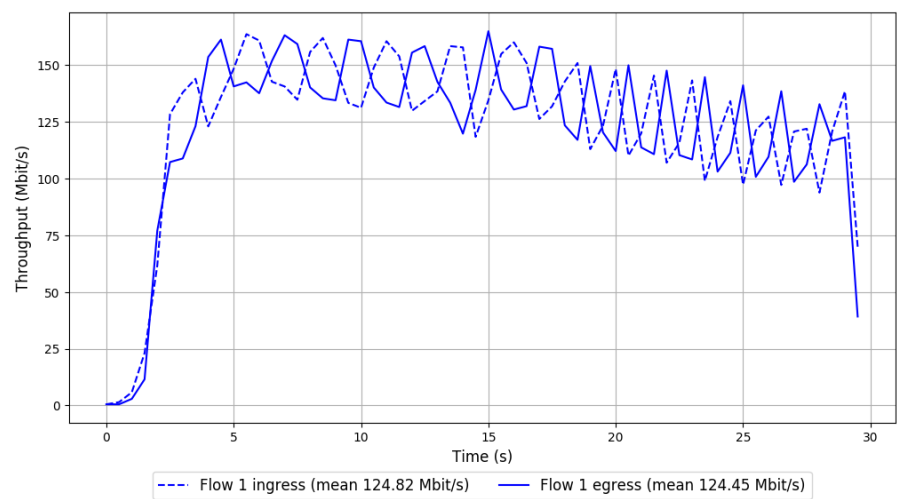
-- Flow 1:

Average throughput: 124.45 Mbit/s

95th percentile per-packet one-way delay: 163.252 ms

Loss rate: 1.22%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-01-31 02:30:13

End at: 2018-01-31 02:30:43

Below is generated by plot.py at 2018-01-31 06:13:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 159.03 Mbit/s

95th percentile per-packet one-way delay: 163.209 ms

Loss rate: 1.27%

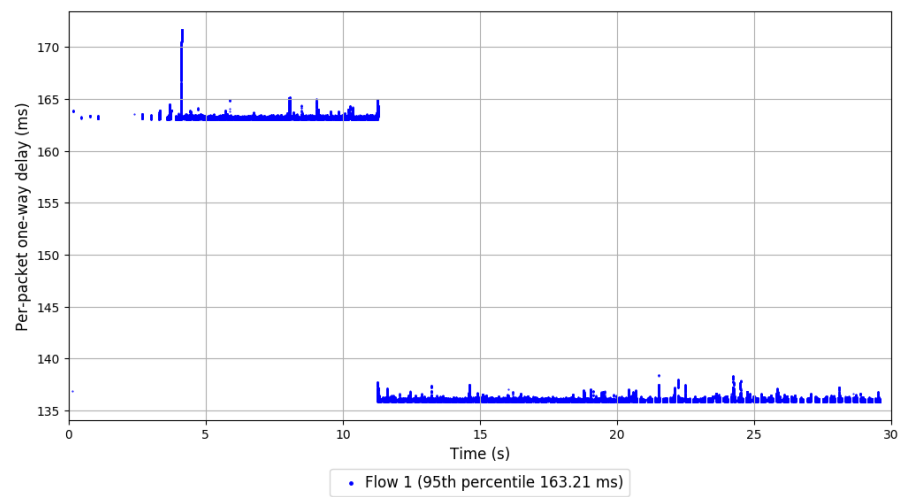
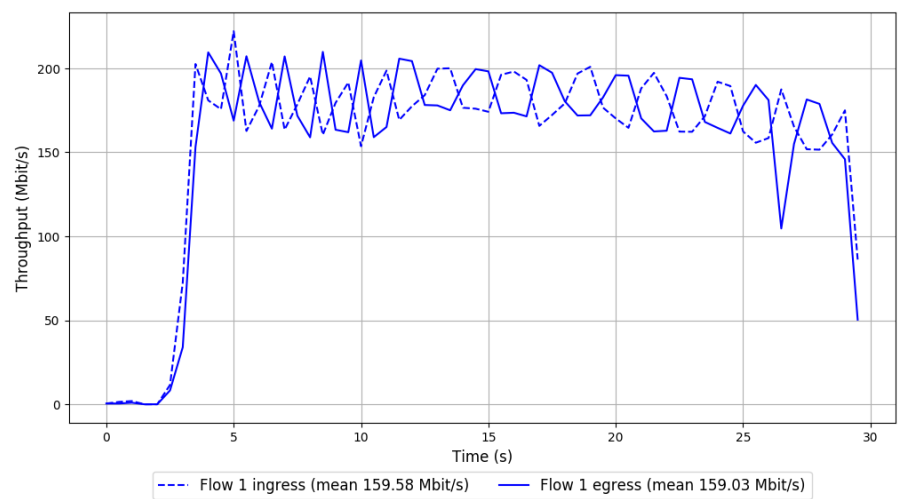
-- Flow 1:

Average throughput: 159.03 Mbit/s

95th percentile per-packet one-way delay: 163.209 ms

Loss rate: 1.27%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-01-31 02:45:23

End at: 2018-01-31 02:45:53

Below is generated by plot.py at 2018-01-31 06:14:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 133.74 Mbit/s

95th percentile per-packet one-way delay: 162.681 ms

Loss rate: 0.99%

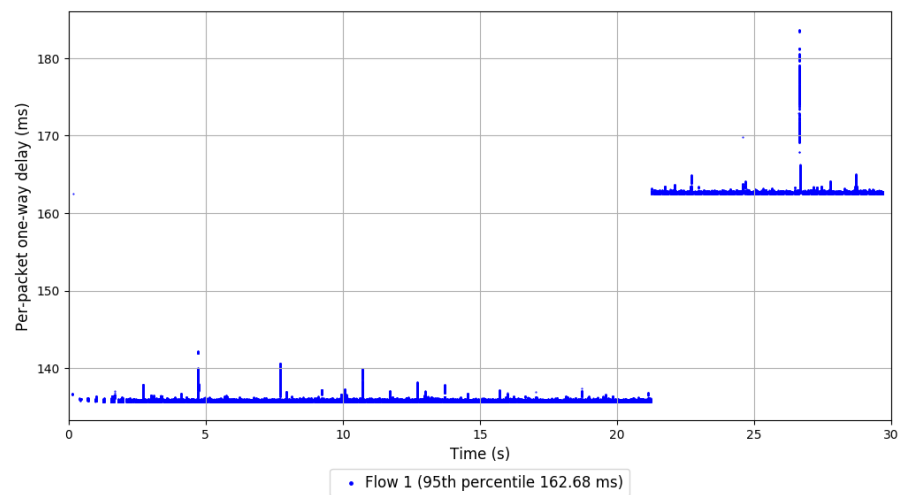
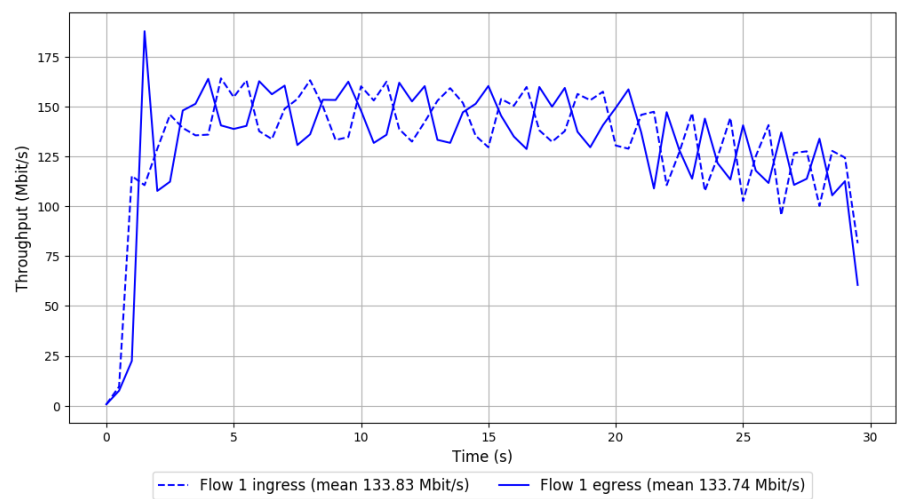
-- Flow 1:

Average throughput: 133.74 Mbit/s

95th percentile per-packet one-way delay: 162.681 ms

Loss rate: 0.99%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-01-31 03:00:24

End at: 2018-01-31 03:00:54

Below is generated by plot.py at 2018-01-31 06:14:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.29 Mbit/s

95th percentile per-packet one-way delay: 162.988 ms

Loss rate: 2.59%

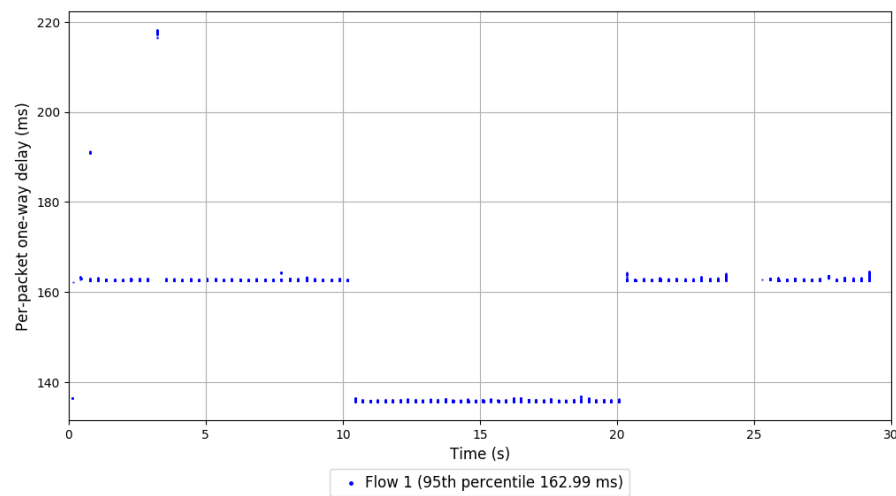
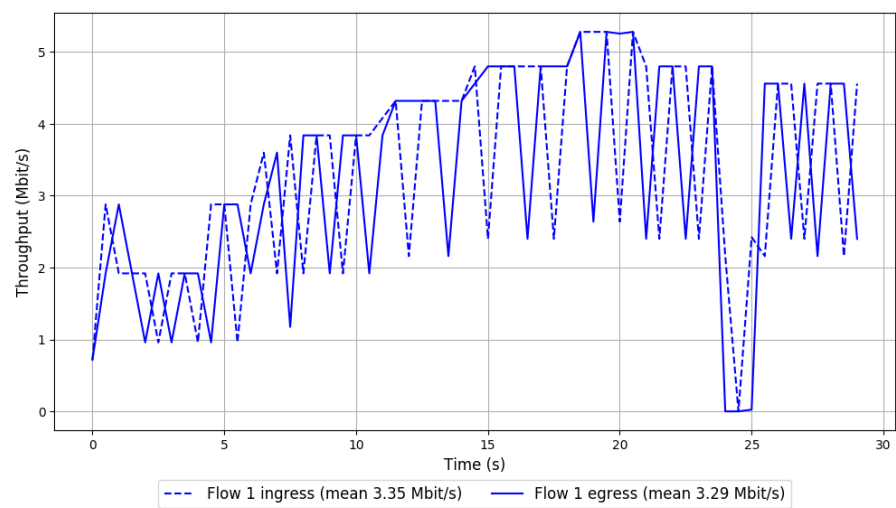
-- Flow 1:

Average throughput: 3.29 Mbit/s

95th percentile per-packet one-way delay: 162.988 ms

Loss rate: 2.59%

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

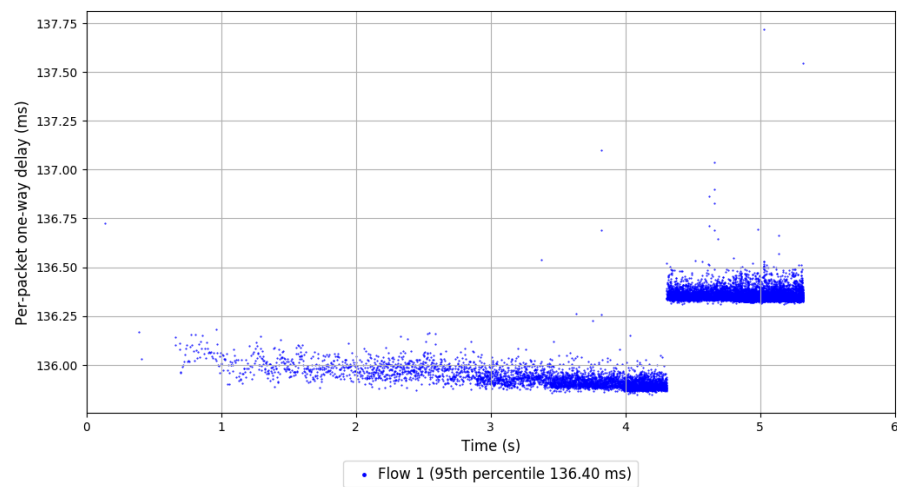
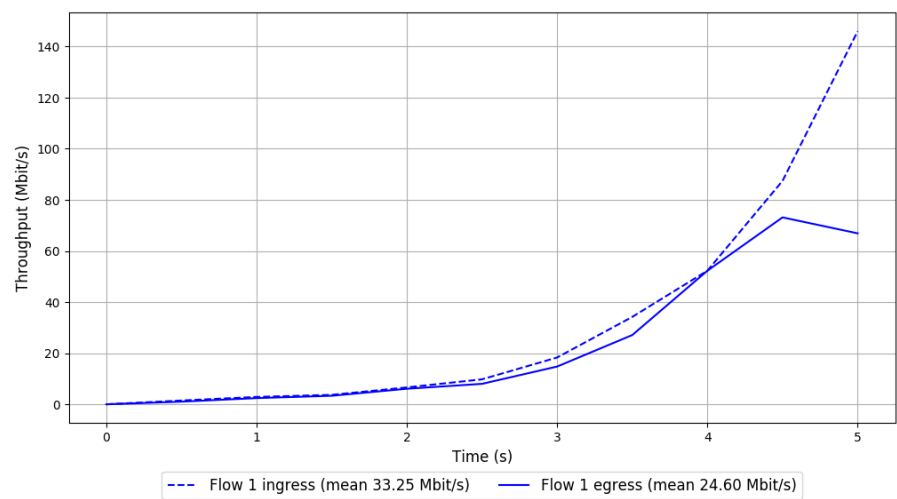


Run 1: Statistics of Vivace-latency

Start at: 2018-01-31 00:49:16

End at: 2018-01-31 00:49:46

Run 1: Report of Vivace-latency — Data Link

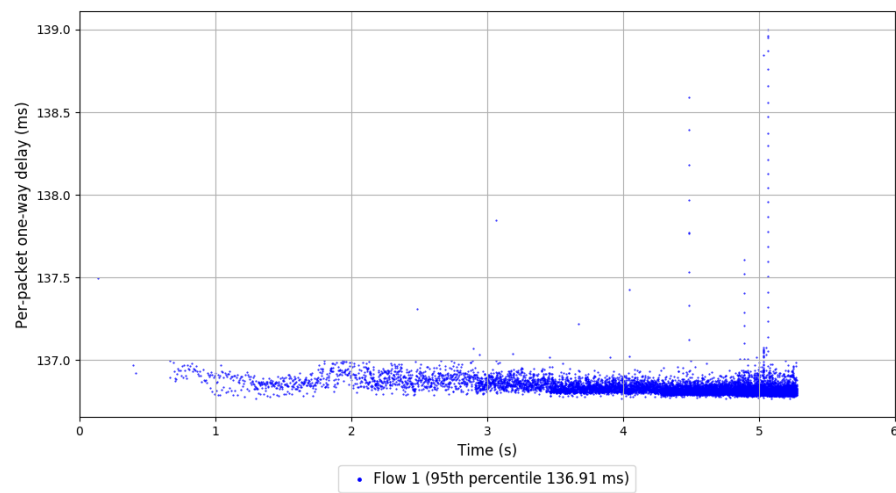
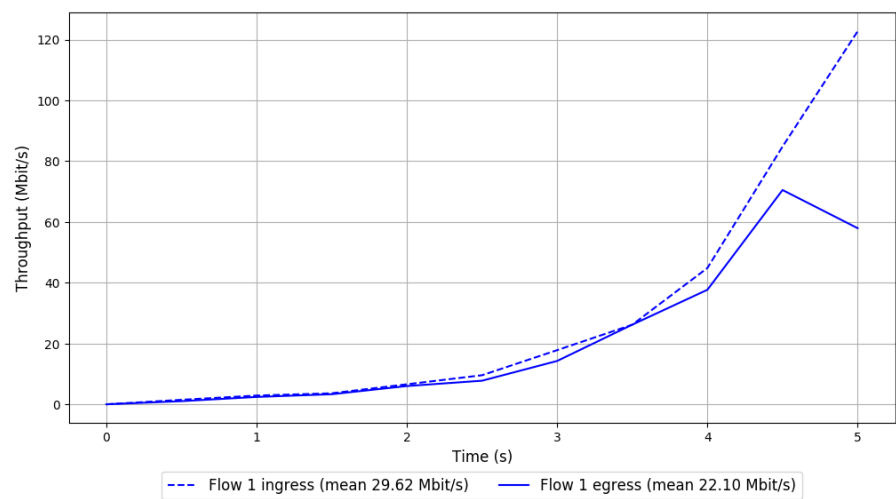


Run 2: Statistics of Vivace-latency

Start at: 2018-01-31 01:04:27

End at: 2018-01-31 01:04:57

Run 2: Report of Vivace-latency — Data Link

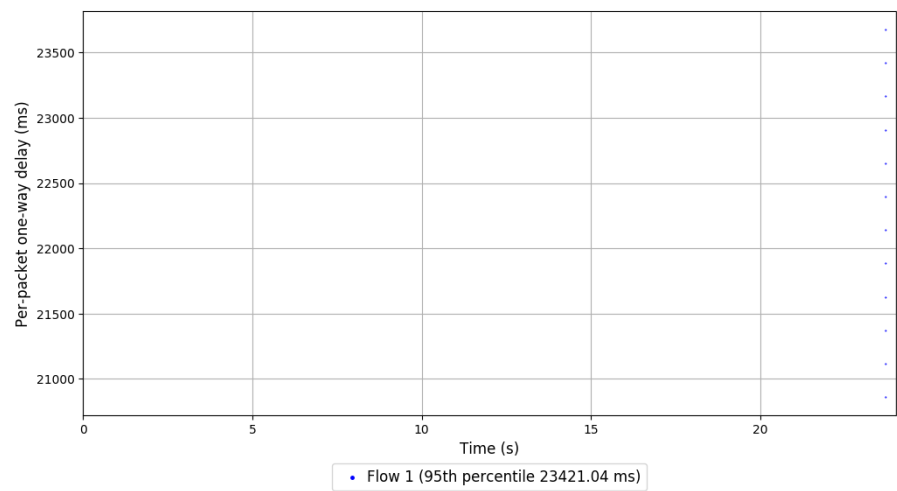
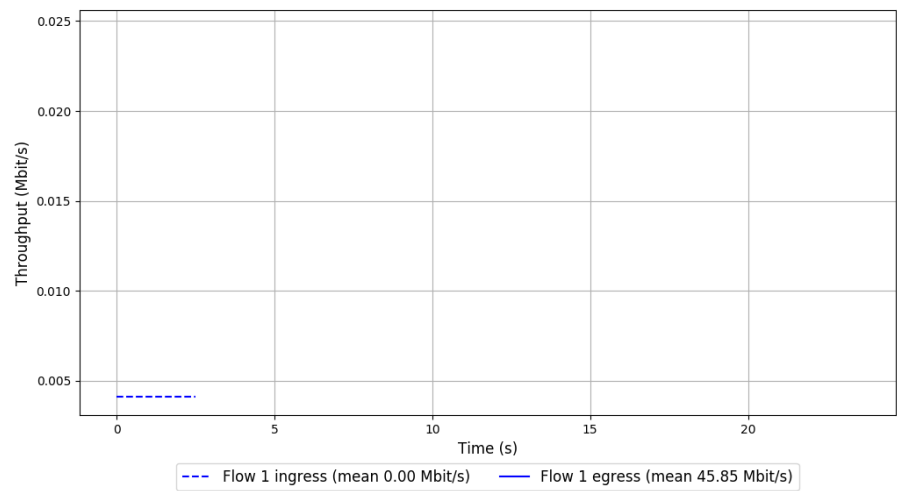


Run 3: Statistics of Vivace-latency

Start at: 2018-01-31 01:19:28

End at: 2018-01-31 01:19:58

Run 3: Report of Vivace-latency — Data Link

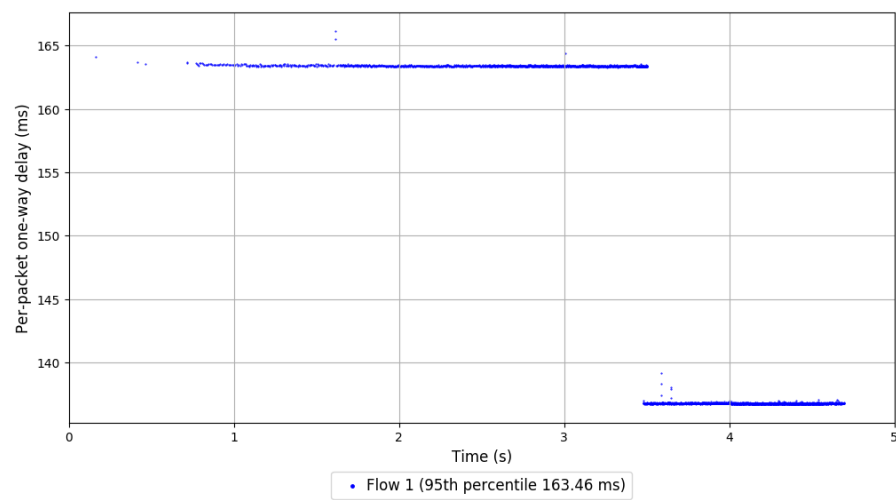
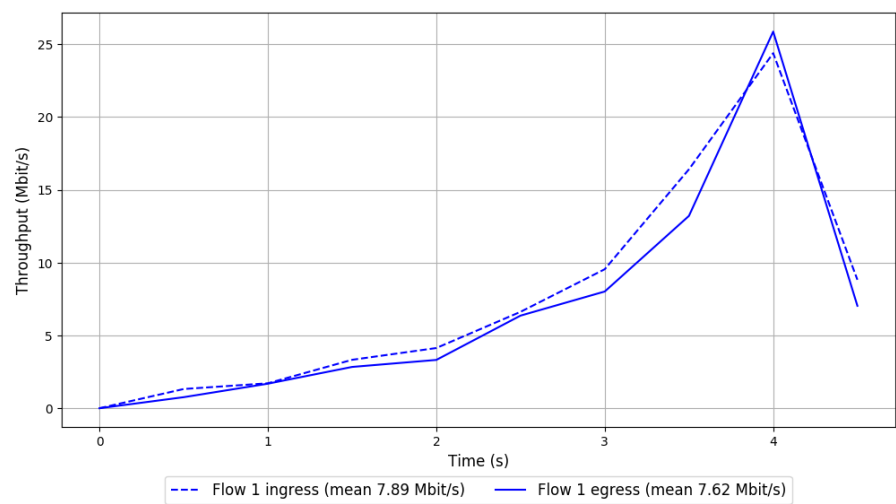


Run 4: Statistics of Vivace-latency

Start at: 2018-01-31 01:33:56

End at: 2018-01-31 01:34:26

Run 4: Report of Vivace-latency — Data Link

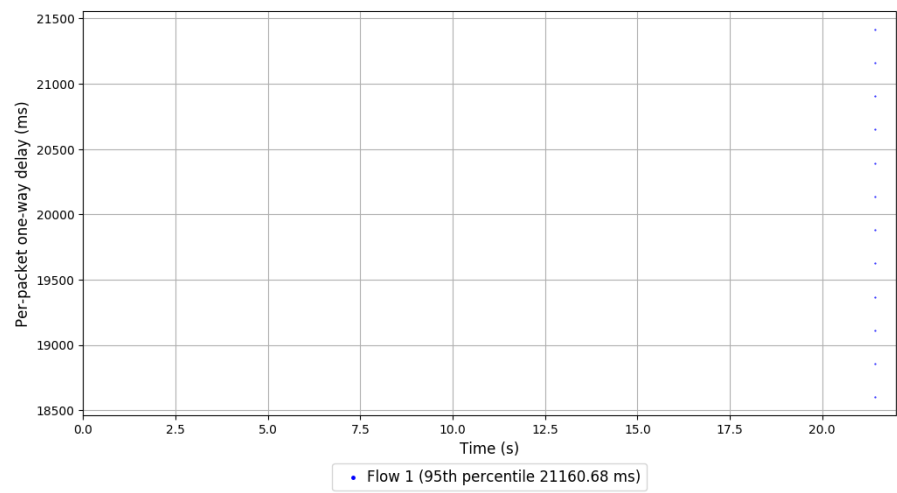
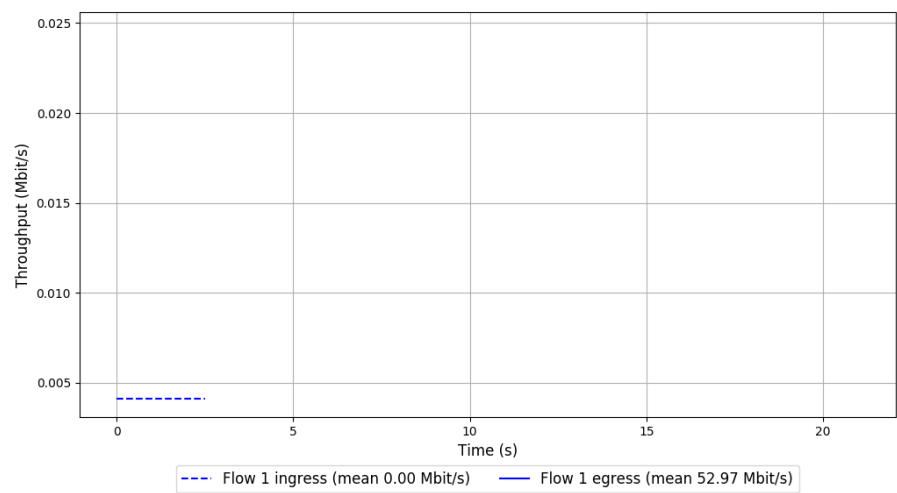


Run 5: Statistics of Vivace-latency

Start at: 2018-01-31 01:48:43

End at: 2018-01-31 01:49:13

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-01-31 02:03:26

End at: 2018-01-31 02:03:56

Below is generated by plot.py at 2018-01-31 06:18:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.66 Mbit/s

95th percentile per-packet one-way delay: 137.492 ms

Loss rate: 1.22%

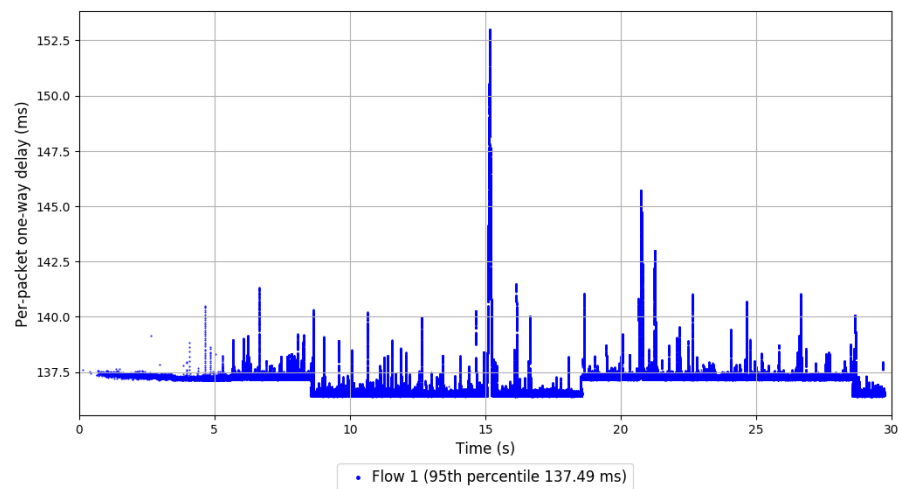
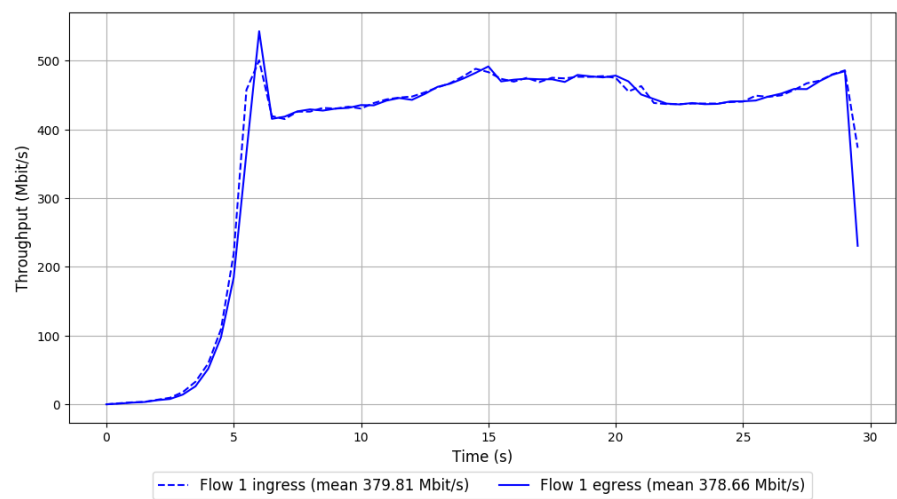
-- Flow 1:

Average throughput: 378.66 Mbit/s

95th percentile per-packet one-way delay: 137.492 ms

Loss rate: 1.22%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-01-31 02:18:59

End at: 2018-01-31 02:19:29

Below is generated by plot.py at 2018-01-31 06:18:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 361.46 Mbit/s

95th percentile per-packet one-way delay: 163.996 ms

Loss rate: 1.25%

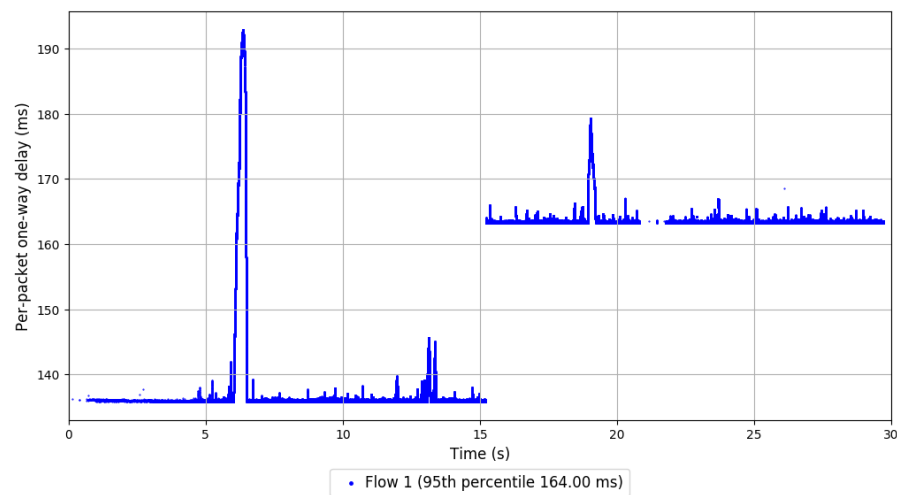
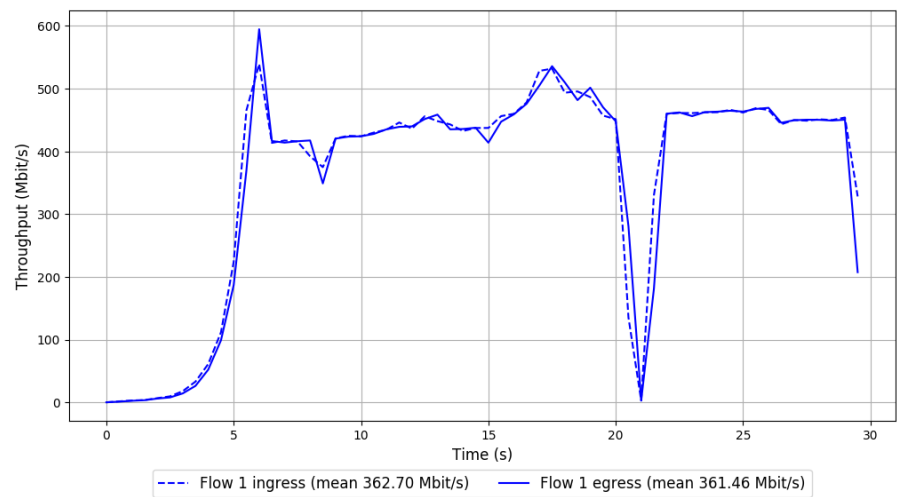
-- Flow 1:

Average throughput: 361.46 Mbit/s

95th percentile per-packet one-way delay: 163.996 ms

Loss rate: 1.25%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-01-31 02:34:29

End at: 2018-01-31 02:34:59

Below is generated by plot.py at 2018-01-31 06:18:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 318.76 Mbit/s

95th percentile per-packet one-way delay: 167.607 ms

Loss rate: 1.44%

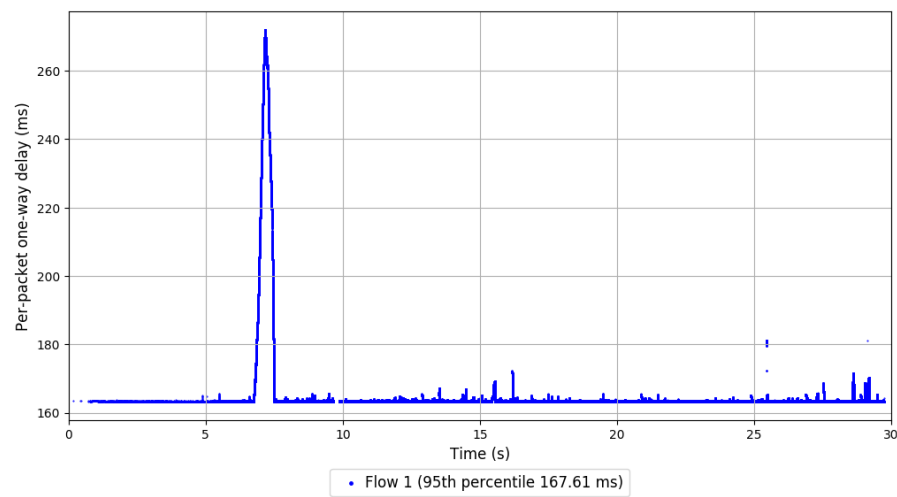
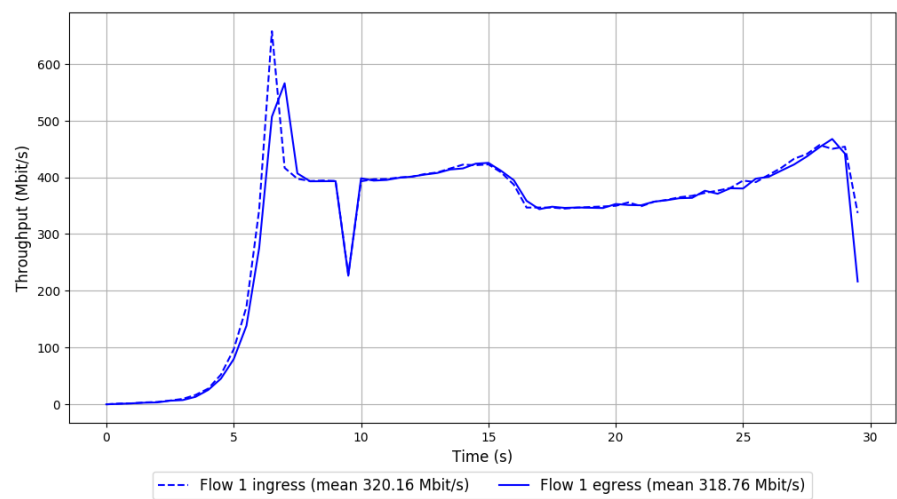
-- Flow 1:

Average throughput: 318.76 Mbit/s

95th percentile per-packet one-way delay: 167.607 ms

Loss rate: 1.44%

Run 8: Report of Vivace-latency — Data Link

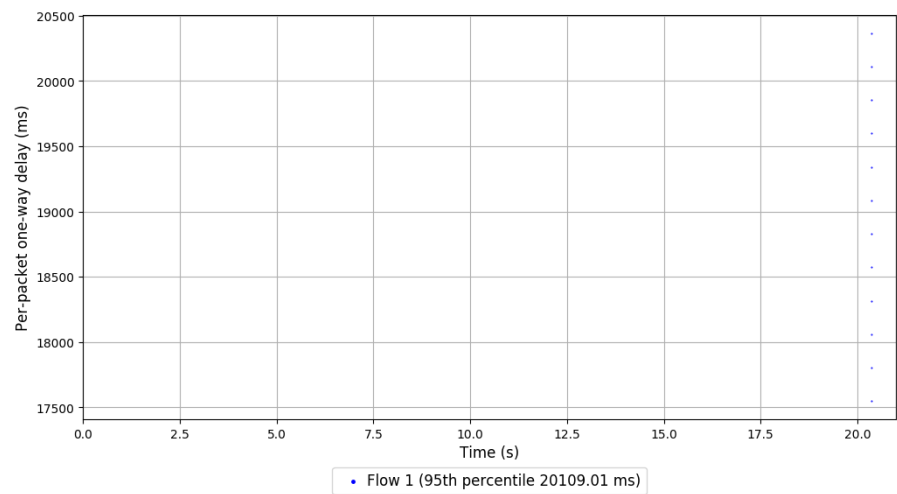
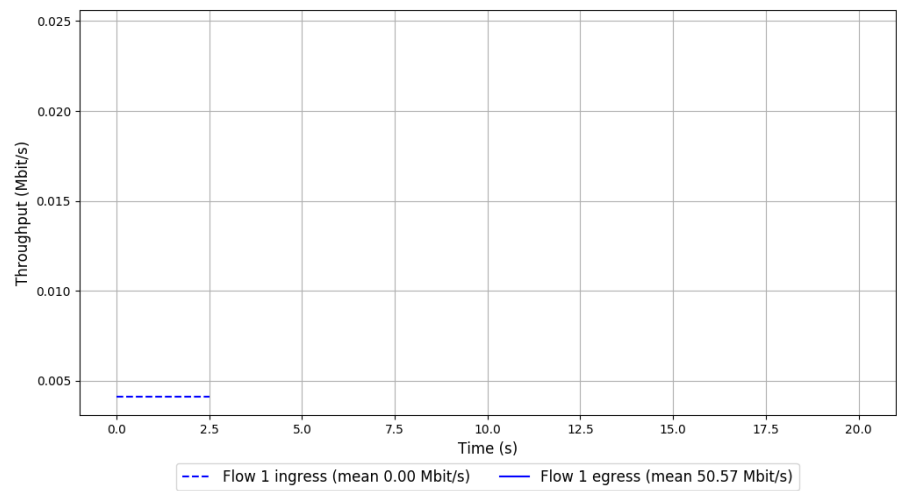


Run 9: Statistics of Vivace-latency

Start at: 2018-01-31 02:49:46

End at: 2018-01-31 02:50:16

Run 9: Report of Vivace-latency — Data Link

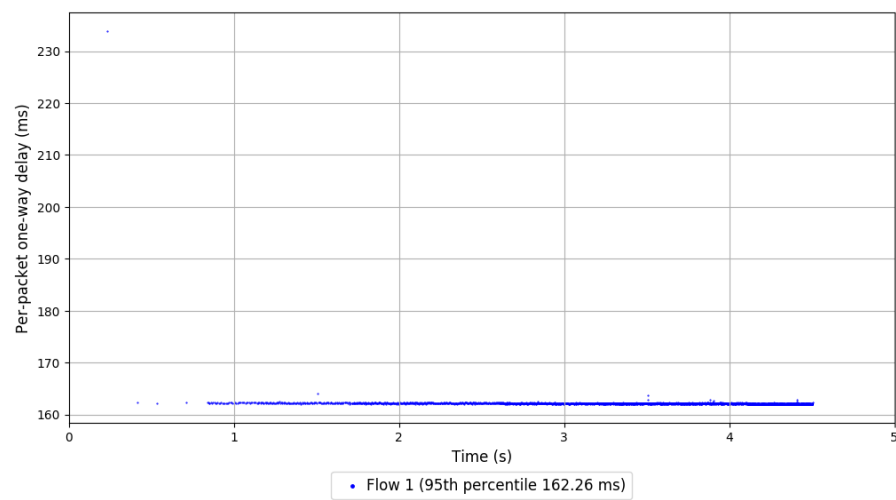
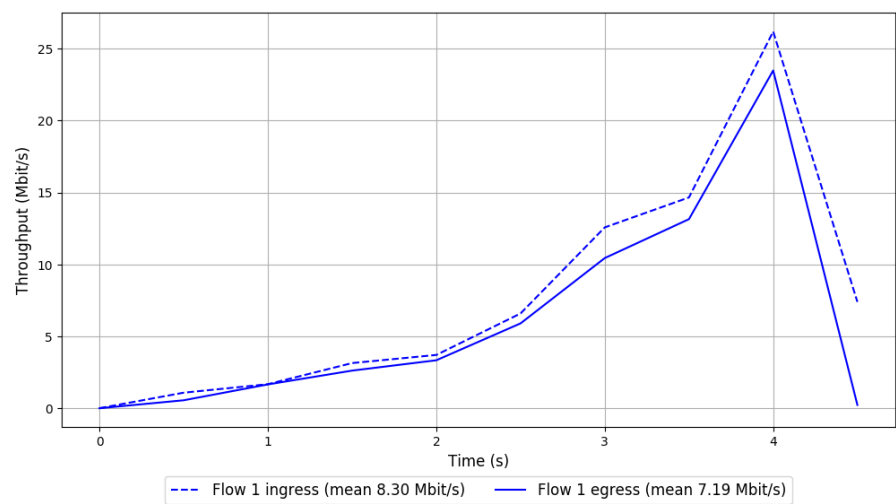


Run 10: Statistics of Vivace-latency

Start at: 2018-01-31 03:04:37

End at: 2018-01-31 03:05:07

Run 10: Report of Vivace-latency — Data Link

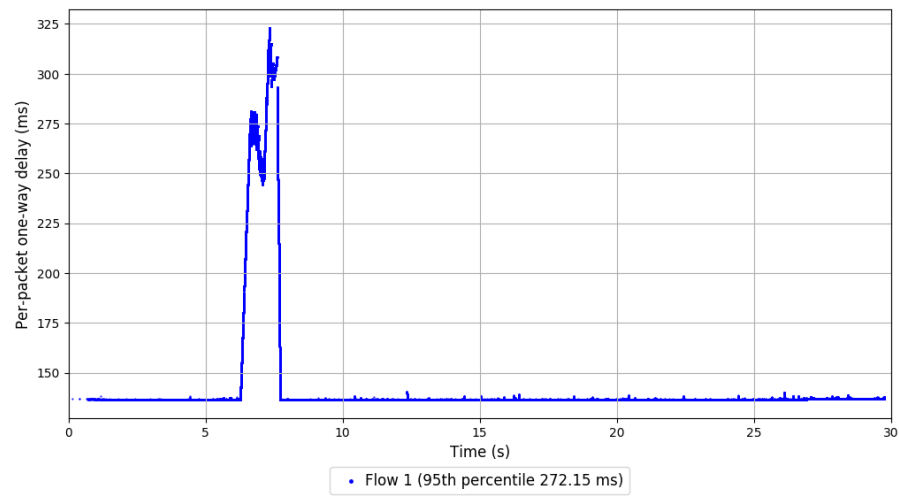
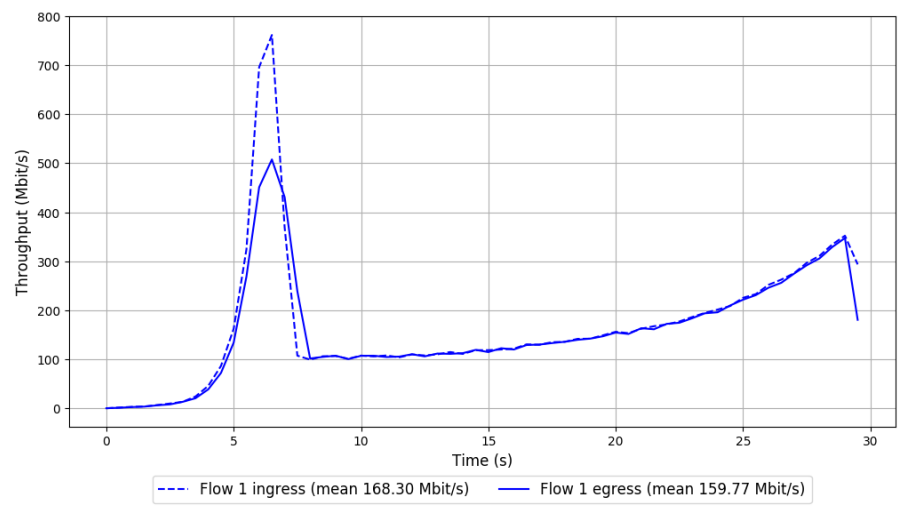


```
Run 1: Statistics of Vivace-loss

Start at: 2018-01-31 00:53:18
End at: 2018-01-31 00:53:48

# Below is generated by plot.py at 2018-01-31 06:18:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 159.77 Mbit/s
95th percentile per-packet one-way delay: 272.146 ms
Loss rate: 5.96%
-- Flow 1:
Average throughput: 159.77 Mbit/s
95th percentile per-packet one-way delay: 272.146 ms
Loss rate: 5.96%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-01-31 01:08:25

End at: 2018-01-31 01:08:55

Below is generated by plot.py at 2018-01-31 06:18:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 365.98 Mbit/s

95th percentile per-packet one-way delay: 254.789 ms

Loss rate: 3.09%

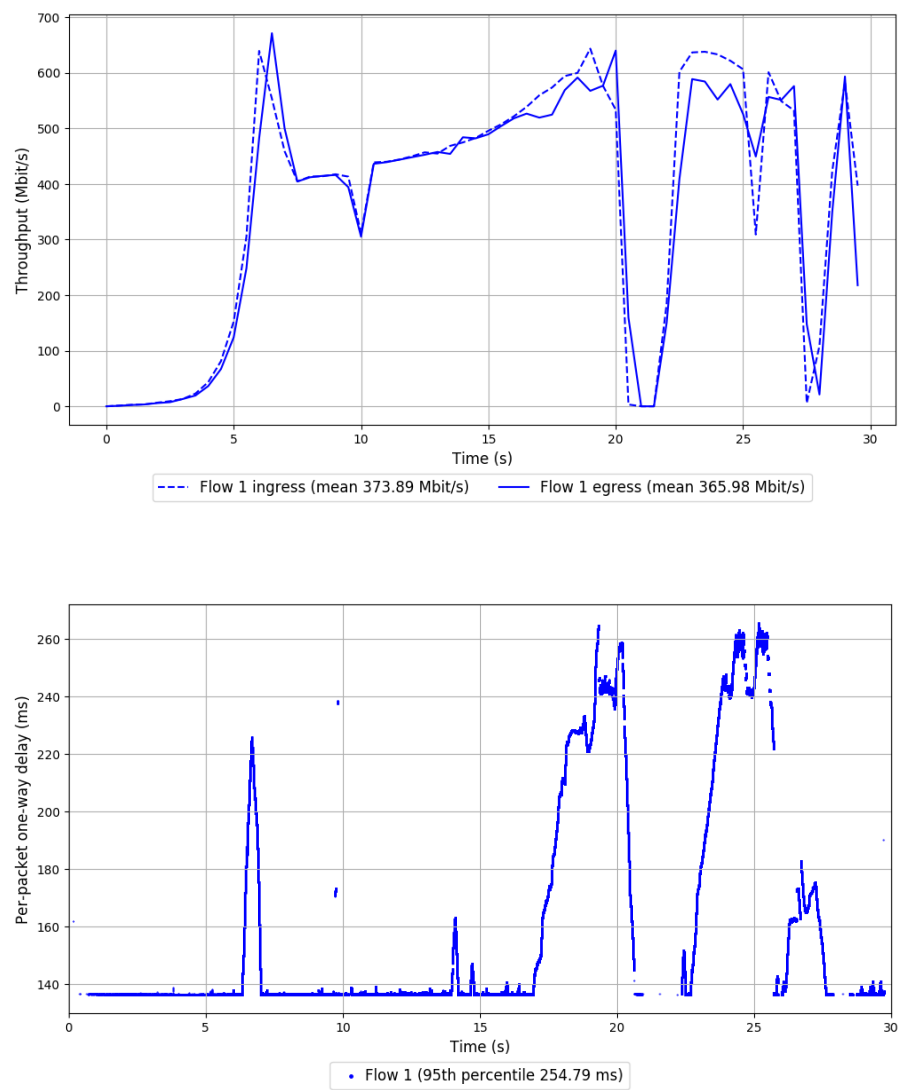
-- Flow 1:

Average throughput: 365.98 Mbit/s

95th percentile per-packet one-way delay: 254.789 ms

Loss rate: 3.09%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-01-31 01:23:23

End at: 2018-01-31 01:23:53

Below is generated by plot.py at 2018-01-31 06:18:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 260.41 Mbit/s

95th percentile per-packet one-way delay: 214.964 ms

Loss rate: 2.33%

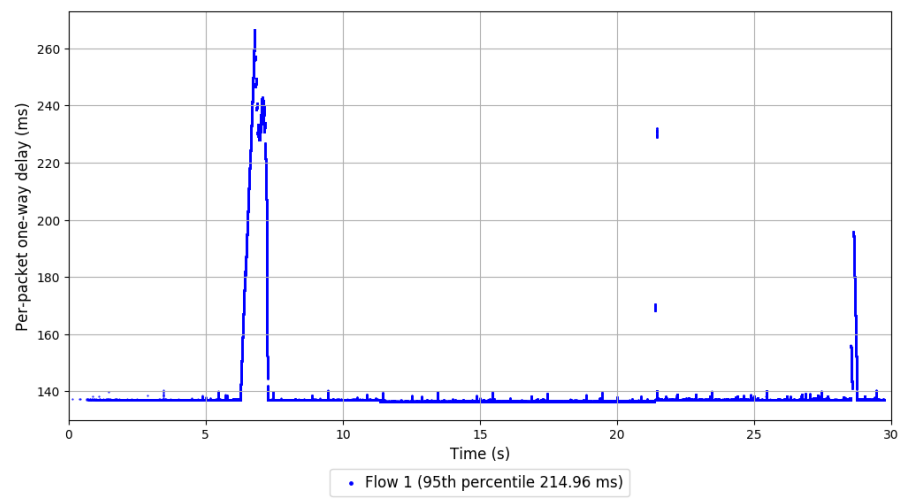
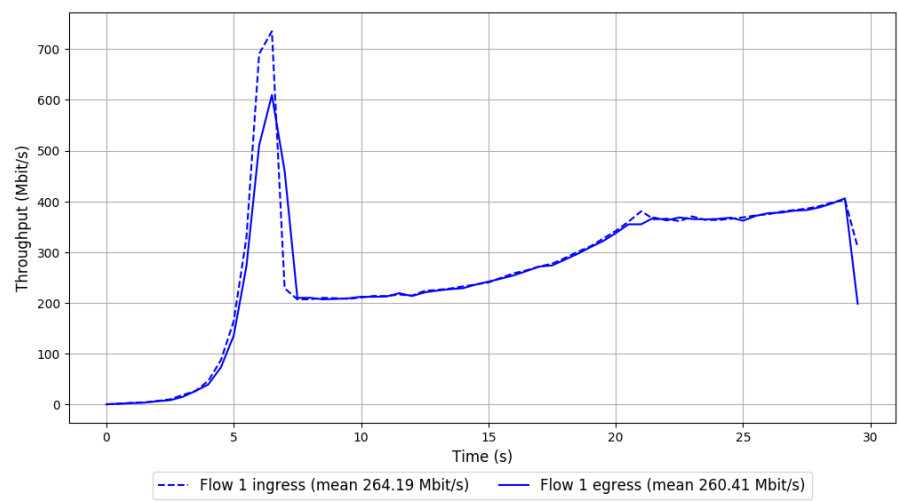
-- Flow 1:

Average throughput: 260.41 Mbit/s

95th percentile per-packet one-way delay: 214.964 ms

Loss rate: 2.33%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-01-31 01:37:47

End at: 2018-01-31 01:38:17

Below is generated by plot.py at 2018-01-31 06:18:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 163.92 Mbit/s

95th percentile per-packet one-way delay: 159.880 ms

Loss rate: 2.13%

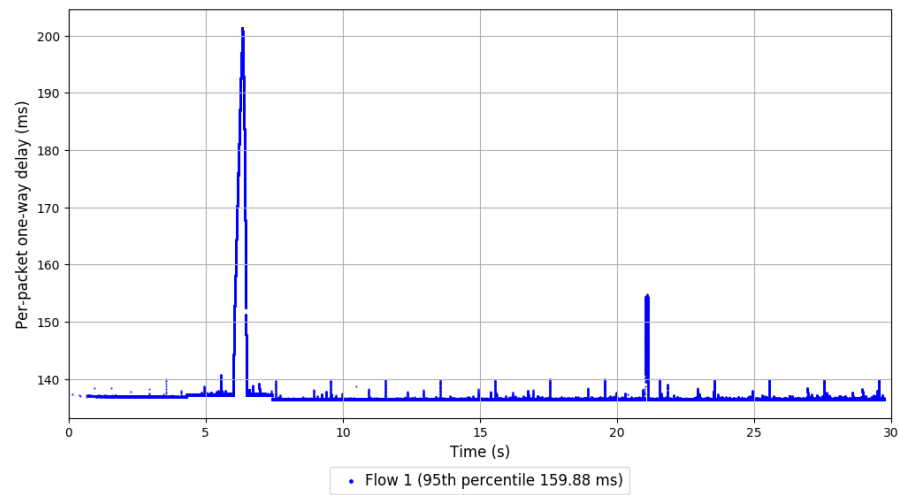
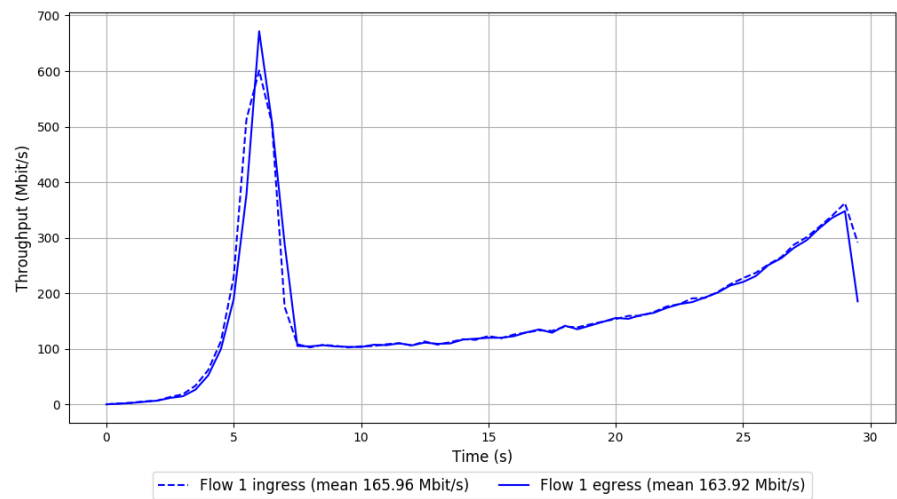
-- Flow 1:

Average throughput: 163.92 Mbit/s

95th percentile per-packet one-way delay: 159.880 ms

Loss rate: 2.13%

Run 4: Report of Vivace-loss — Data Link

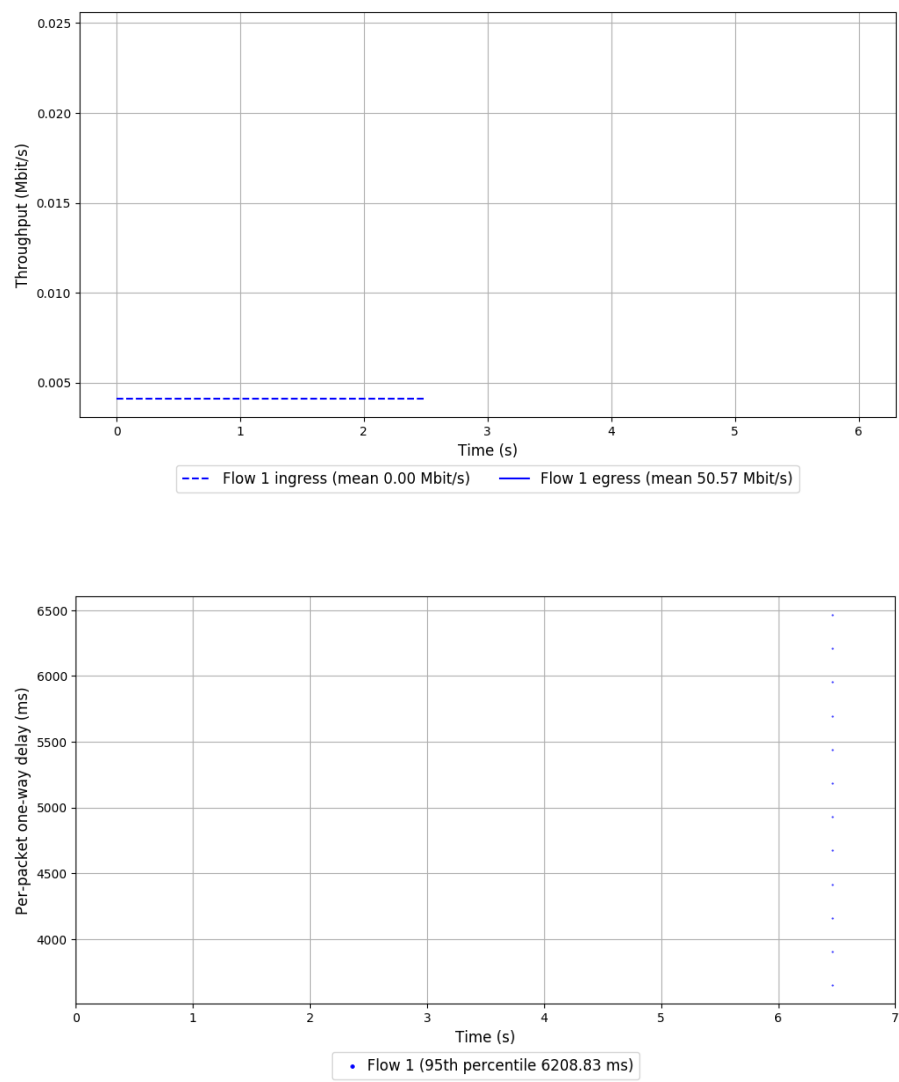


Run 5: Statistics of Vivace-loss

Start at: 2018-01-31 01:52:35

End at: 2018-01-31 01:53:05

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-01-31 02:07:57

End at: 2018-01-31 02:08:27

Below is generated by plot.py at 2018-01-31 06:18:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.56 Mbit/s

95th percentile per-packet one-way delay: 163.114 ms

Loss rate: 1.87%

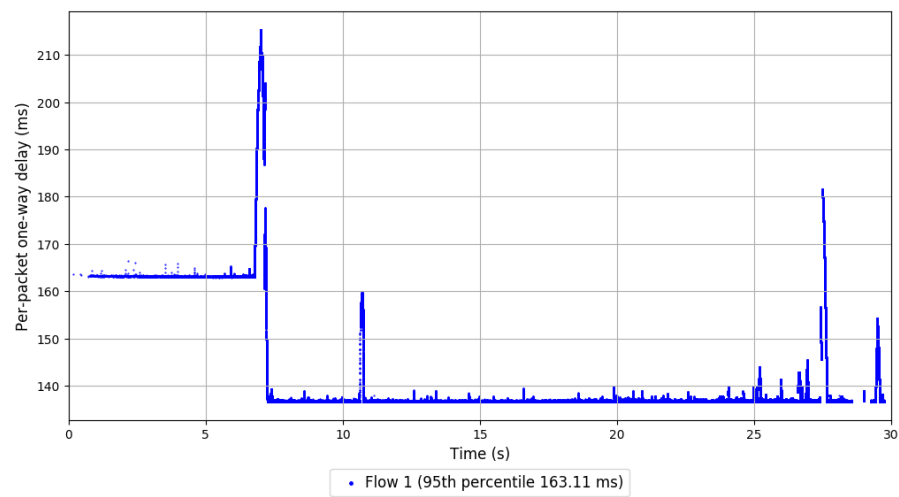
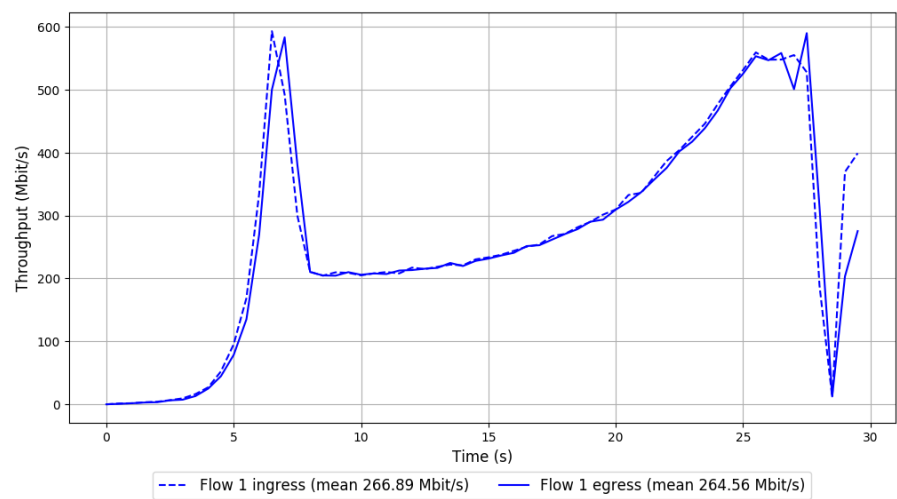
-- Flow 1:

Average throughput: 264.56 Mbit/s

95th percentile per-packet one-way delay: 163.114 ms

Loss rate: 1.87%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-01-31 02:23:24

End at: 2018-01-31 02:23:54

Below is generated by plot.py at 2018-01-31 06:21:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 350.47 Mbit/s

95th percentile per-packet one-way delay: 185.364 ms

Loss rate: 1.43%

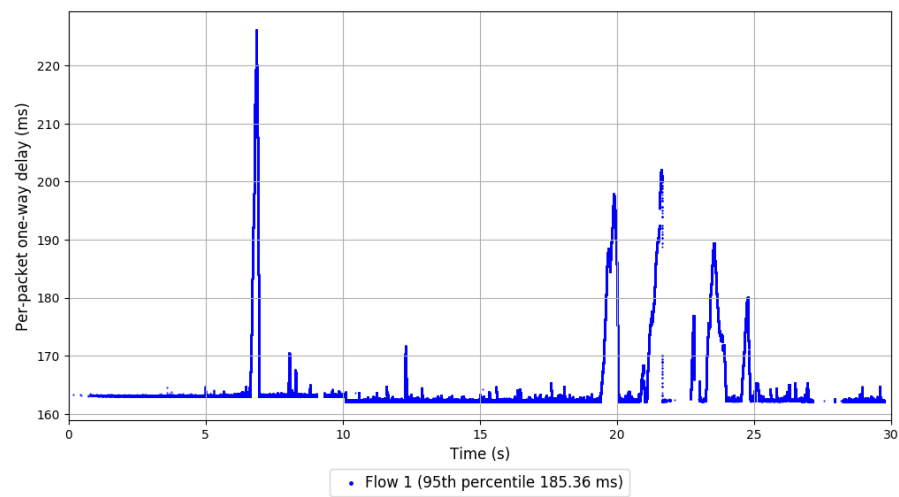
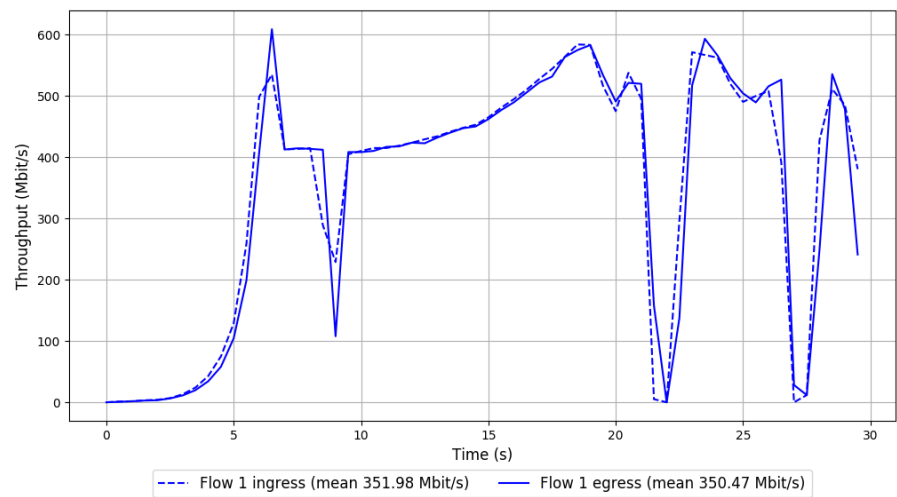
-- Flow 1:

Average throughput: 350.47 Mbit/s

95th percentile per-packet one-way delay: 185.364 ms

Loss rate: 1.43%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-01-31 02:38:45

End at: 2018-01-31 02:39:15

Below is generated by plot.py at 2018-01-31 06:21:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.81 Mbit/s

95th percentile per-packet one-way delay: 225.965 ms

Loss rate: 0.42%

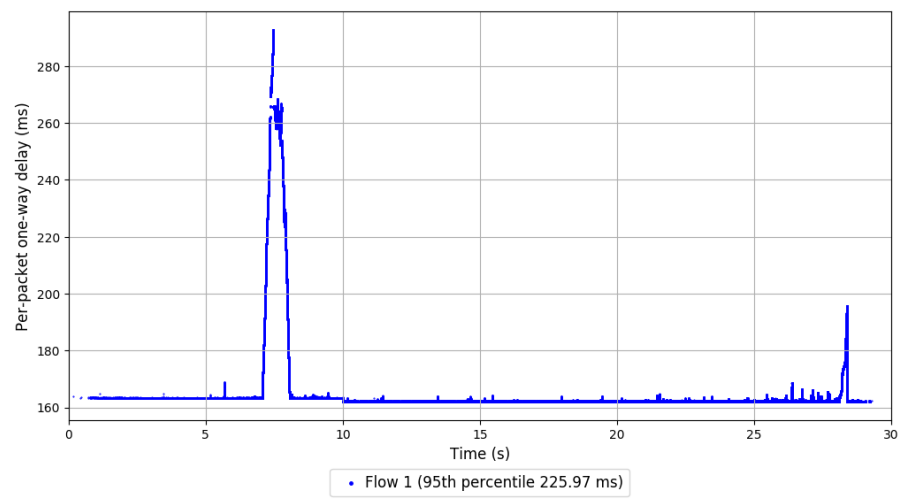
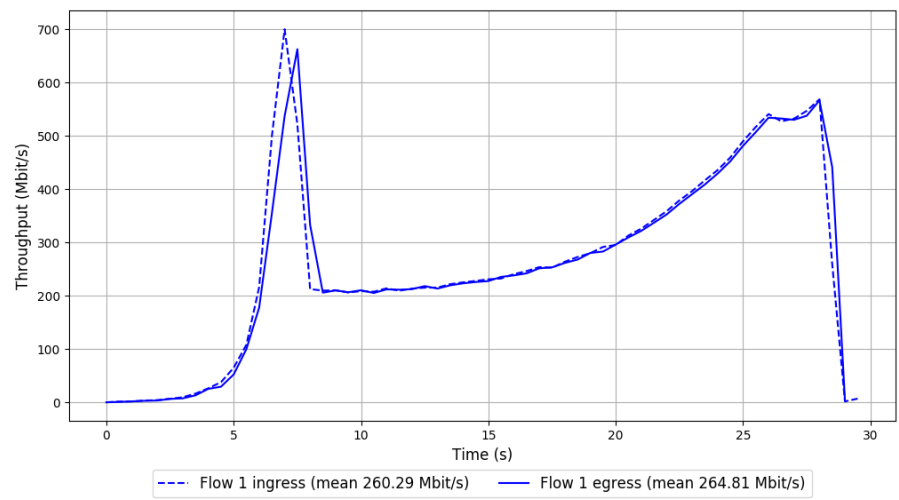
-- Flow 1:

Average throughput: 264.81 Mbit/s

95th percentile per-packet one-way delay: 225.965 ms

Loss rate: 0.42%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-01-31 02:53:41

End at: 2018-01-31 02:54:11

Below is generated by plot.py at 2018-01-31 06:21:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.05 Mbit/s

95th percentile per-packet one-way delay: 243.624 ms

Loss rate: 3.36%

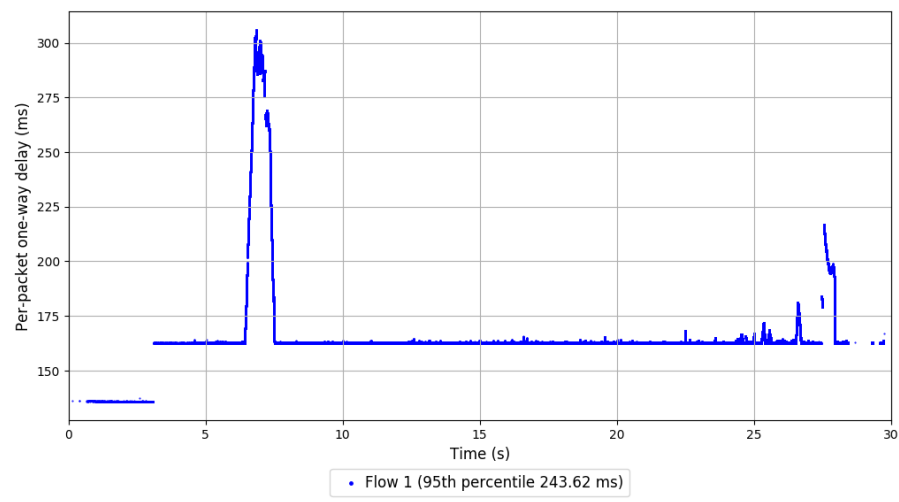
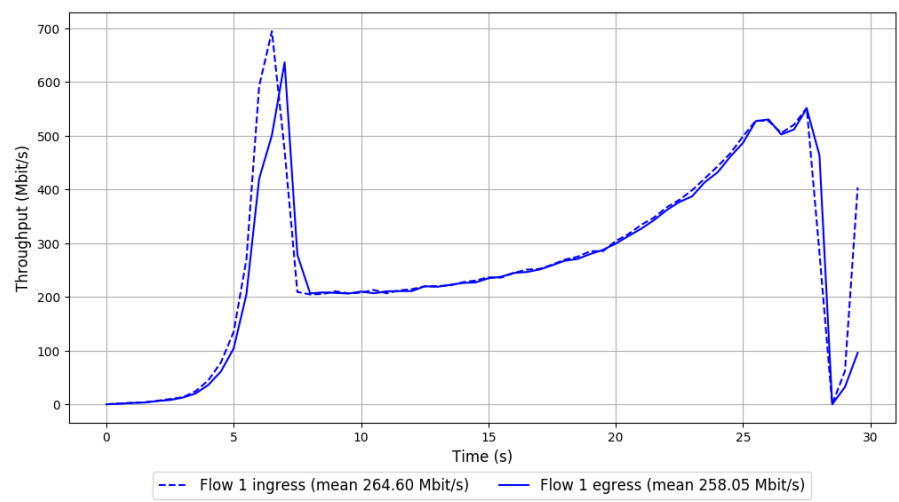
-- Flow 1:

Average throughput: 258.05 Mbit/s

95th percentile per-packet one-way delay: 243.624 ms

Loss rate: 3.36%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-01-31 03:08:35

End at: 2018-01-31 03:09:05

Below is generated by plot.py at 2018-01-31 06:21:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.39 Mbit/s

95th percentile per-packet one-way delay: 162.894 ms

Loss rate: 2.16%

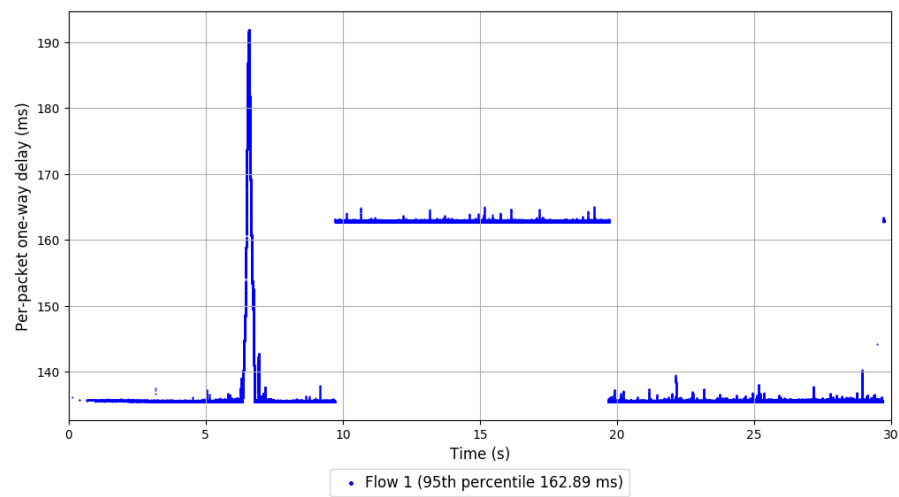
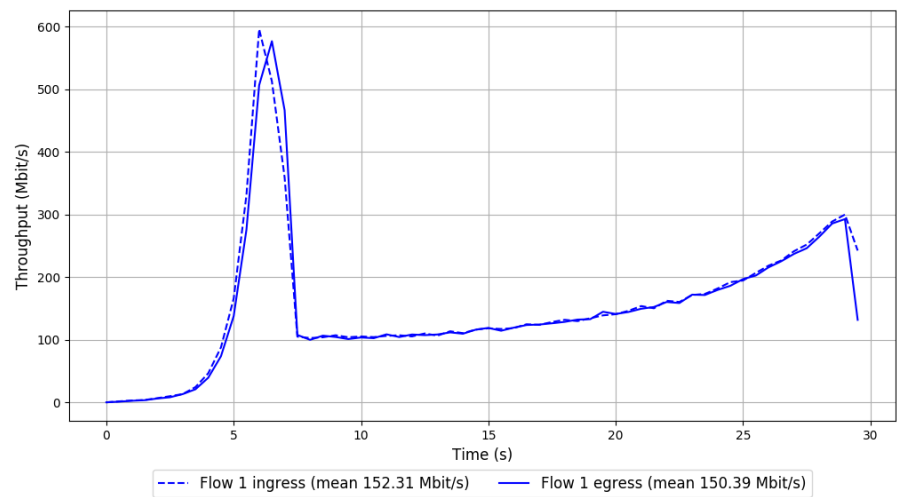
-- Flow 1:

Average throughput: 150.39 Mbit/s

95th percentile per-packet one-way delay: 162.894 ms

Loss rate: 2.16%

Run 10: Report of Vivace-loss — Data Link

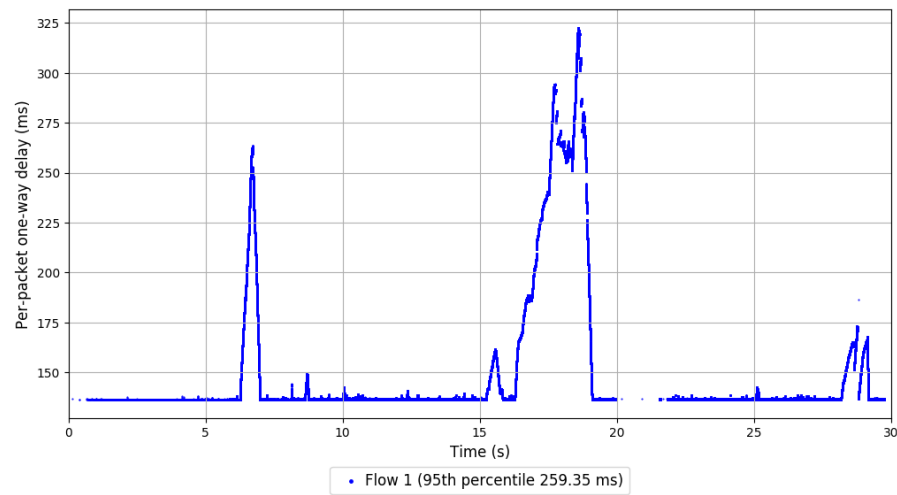
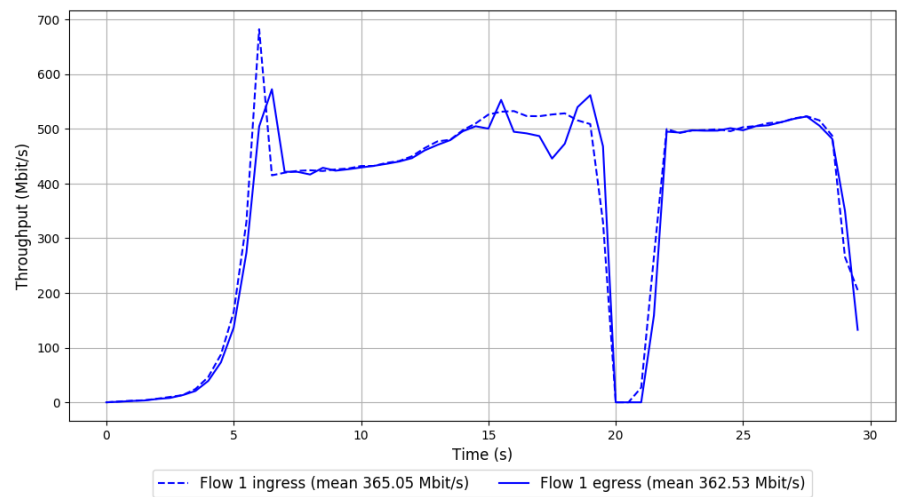


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-01-31 00:48:06
End at: 2018-01-31 00:48:36

# Below is generated by plot.py at 2018-01-31 06:23:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 362.53 Mbit/s
95th percentile per-packet one-way delay: 259.349 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 362.53 Mbit/s
95th percentile per-packet one-way delay: 259.349 ms
Loss rate: 1.59%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-01-31 01:03:15

End at: 2018-01-31 01:03:45

Below is generated by plot.py at 2018-01-31 06:24:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 386.65 Mbit/s

95th percentile per-packet one-way delay: 148.418 ms

Loss rate: 1.32%

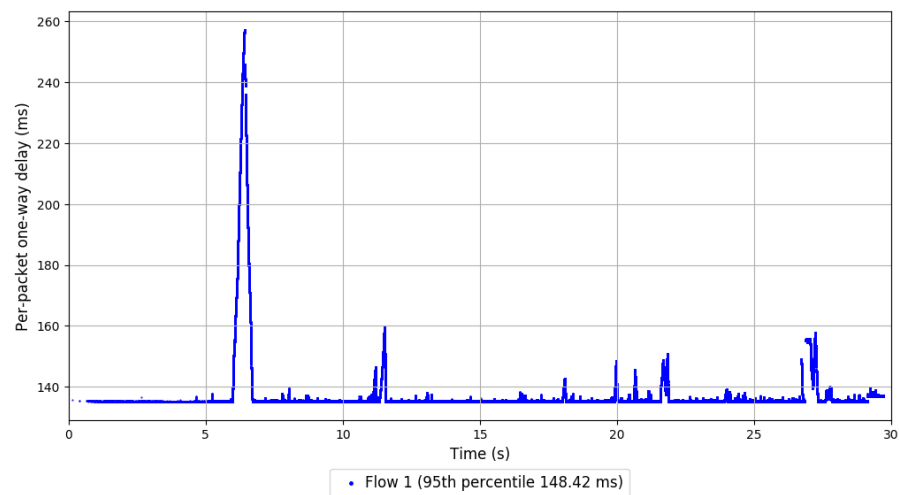
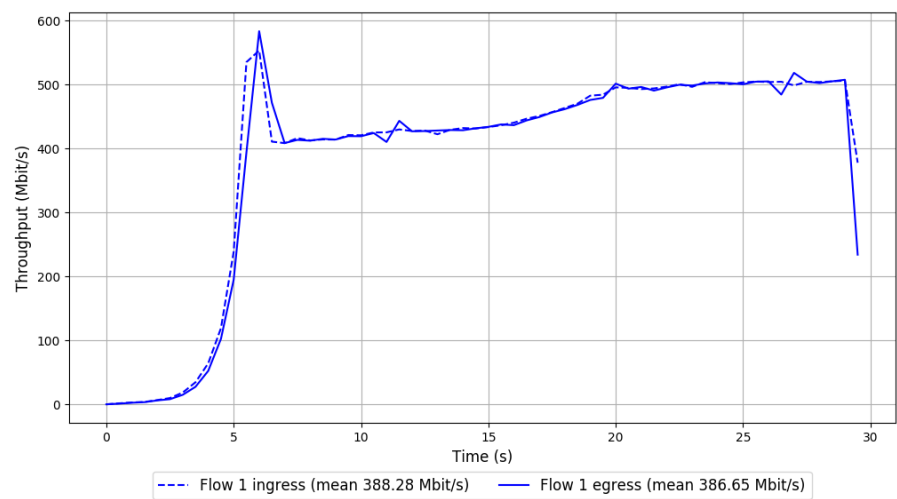
-- Flow 1:

Average throughput: 386.65 Mbit/s

95th percentile per-packet one-way delay: 148.418 ms

Loss rate: 1.32%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-01-31 01:18:17

End at: 2018-01-31 01:18:47

Below is generated by plot.py at 2018-01-31 06:24:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 355.60 Mbit/s

95th percentile per-packet one-way delay: 148.853 ms

Loss rate: 0.75%

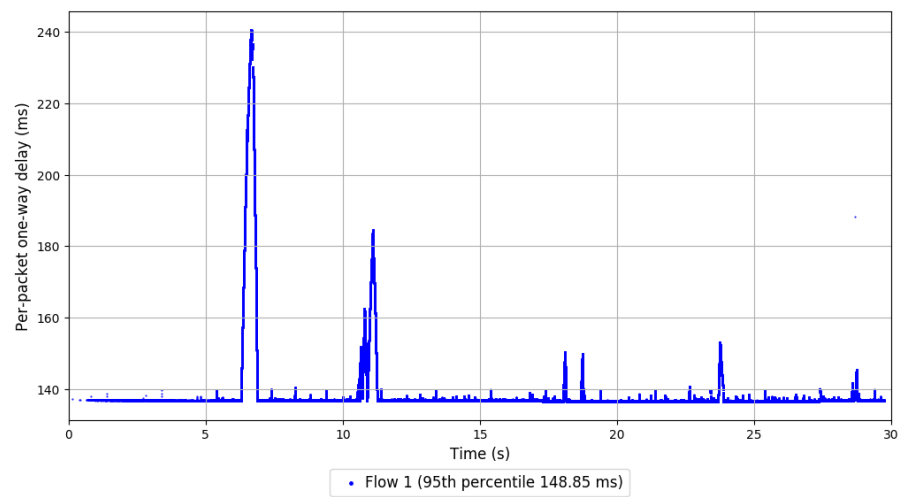
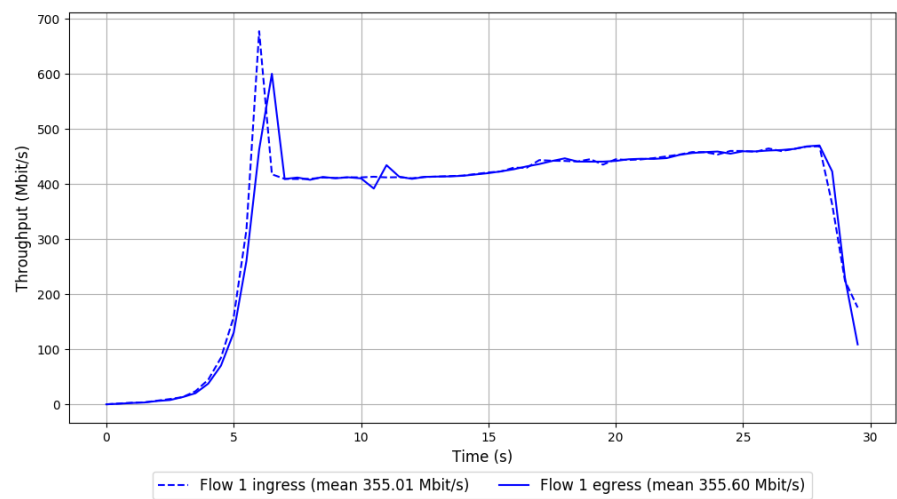
-- Flow 1:

Average throughput: 355.60 Mbit/s

95th percentile per-packet one-way delay: 148.853 ms

Loss rate: 0.75%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-01-31 01:32:42

End at: 2018-01-31 01:33:12

Below is generated by plot.py at 2018-01-31 06:25:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 390.73 Mbit/s

95th percentile per-packet one-way delay: 179.953 ms

Loss rate: 1.42%

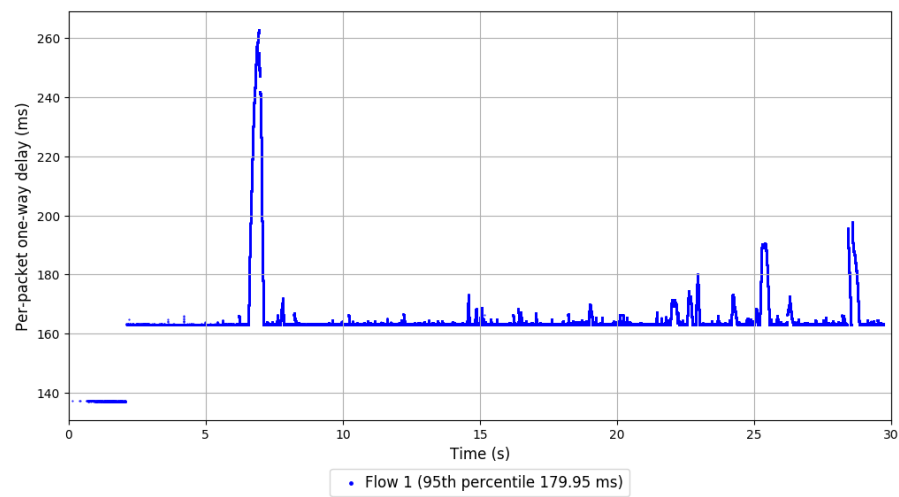
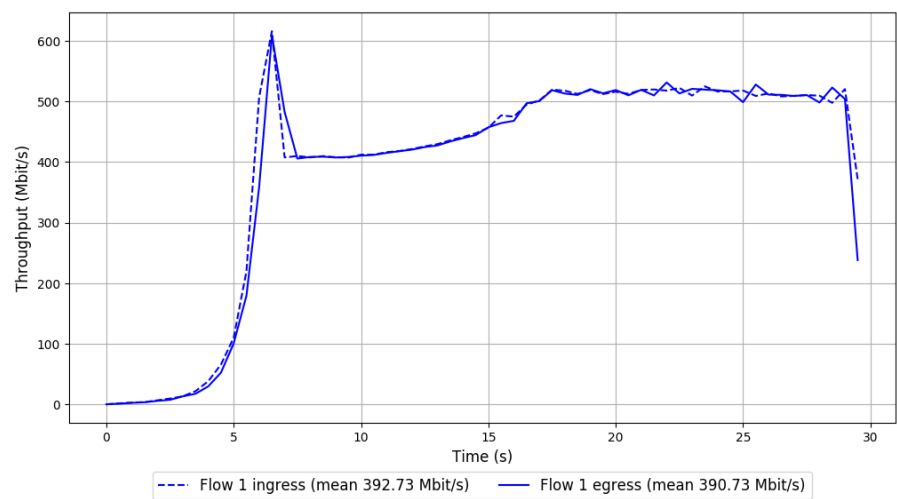
-- Flow 1:

Average throughput: 390.73 Mbit/s

95th percentile per-packet one-way delay: 179.953 ms

Loss rate: 1.42%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-01-31 01:47:31

End at: 2018-01-31 01:48:01

Below is generated by plot.py at 2018-01-31 06:26:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 379.15 Mbit/s

95th percentile per-packet one-way delay: 235.397 ms

Loss rate: 1.82%

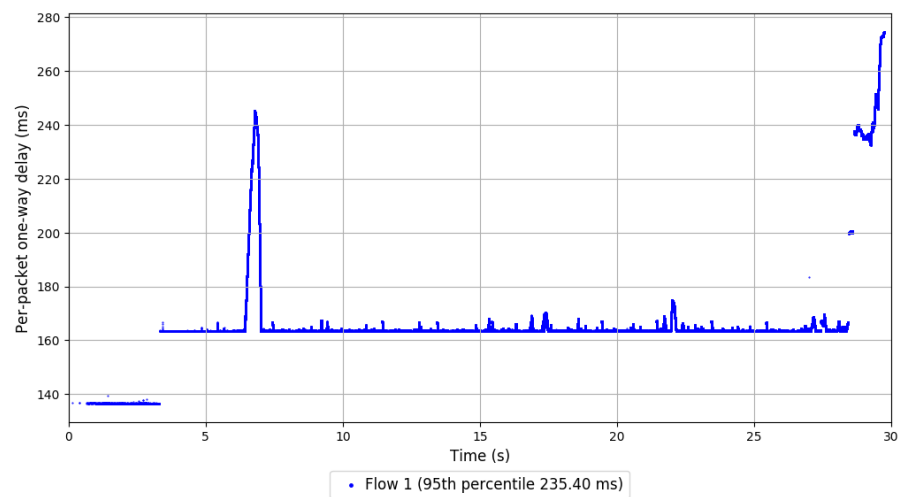
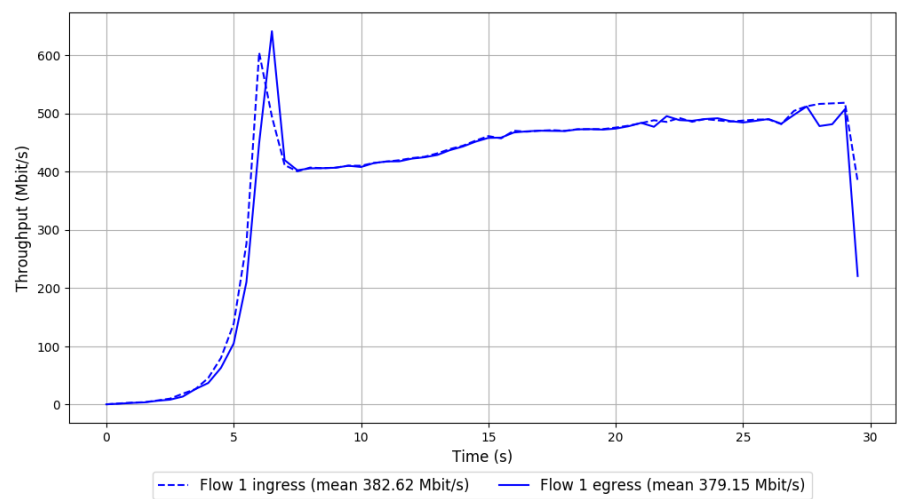
-- Flow 1:

Average throughput: 379.15 Mbit/s

95th percentile per-packet one-way delay: 235.397 ms

Loss rate: 1.82%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-01-31 02:02:14

End at: 2018-01-31 02:02:44

Below is generated by plot.py at 2018-01-31 06:26:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 375.66 Mbit/s

95th percentile per-packet one-way delay: 140.270 ms

Loss rate: 1.52%

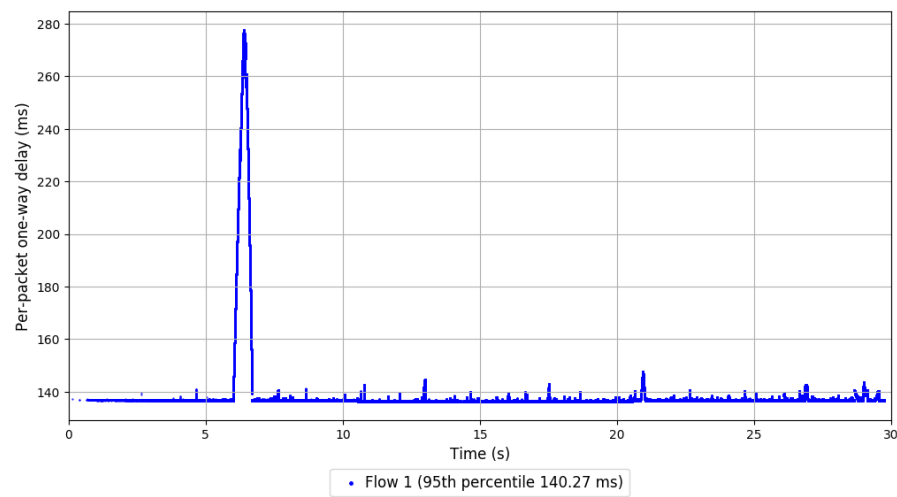
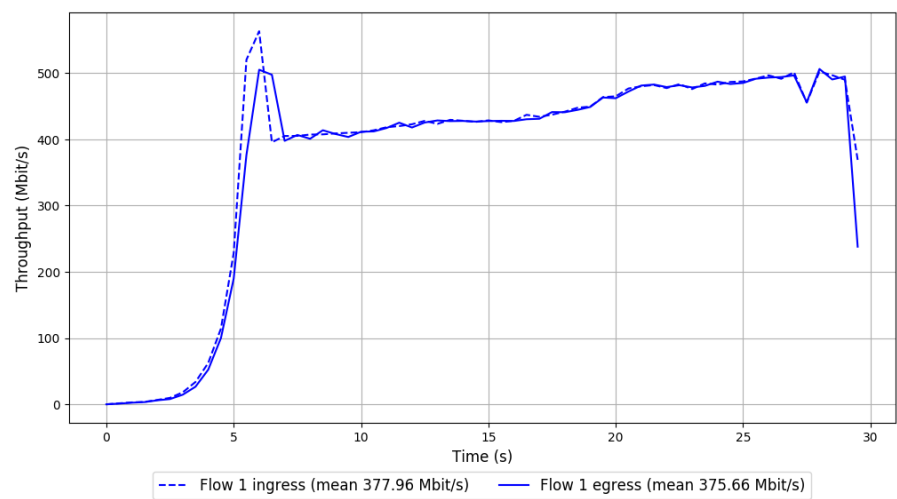
-- Flow 1:

Average throughput: 375.66 Mbit/s

95th percentile per-packet one-way delay: 140.270 ms

Loss rate: 1.52%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-01-31 02:17:51

End at: 2018-01-31 02:18:21

Below is generated by plot.py at 2018-01-31 06:26:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 334.82 Mbit/s

95th percentile per-packet one-way delay: 163.864 ms

Loss rate: 1.31%

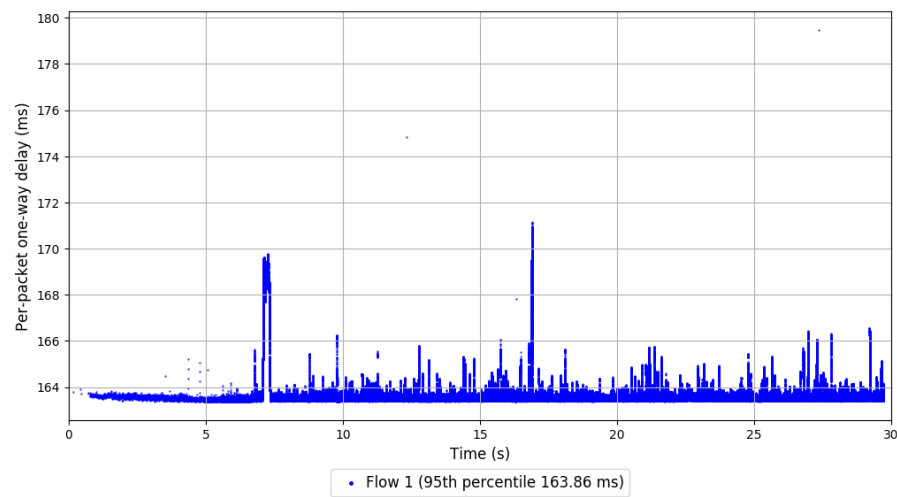
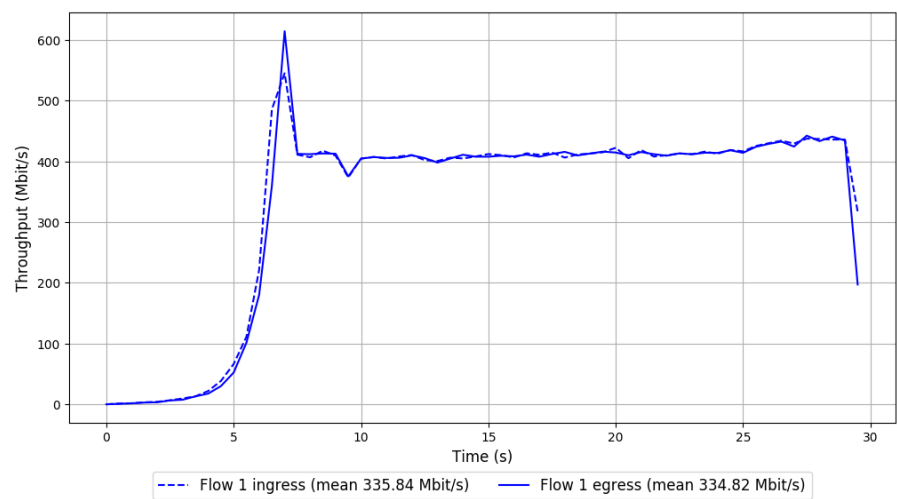
-- Flow 1:

Average throughput: 334.82 Mbit/s

95th percentile per-packet one-way delay: 163.864 ms

Loss rate: 1.31%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-01-31 02:33:18

End at: 2018-01-31 02:33:48

Below is generated by plot.py at 2018-01-31 06:26:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 377.33 Mbit/s

95th percentile per-packet one-way delay: 169.010 ms

Loss rate: 0.85%

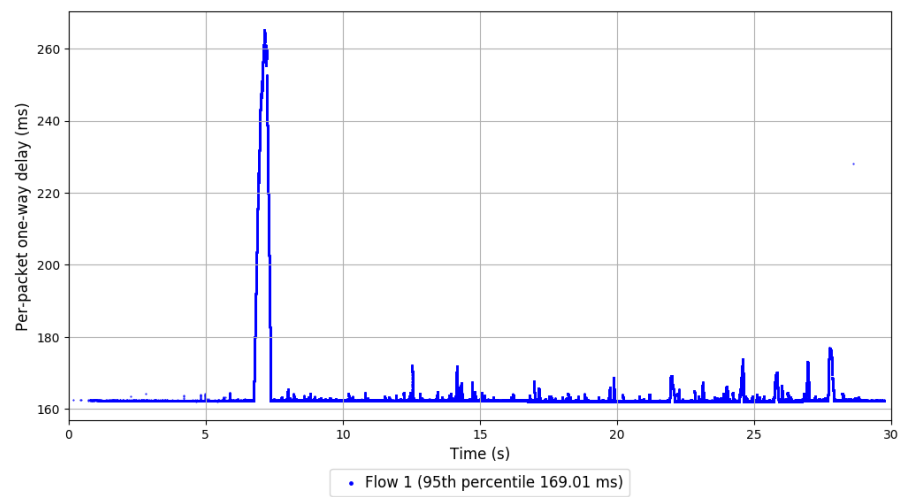
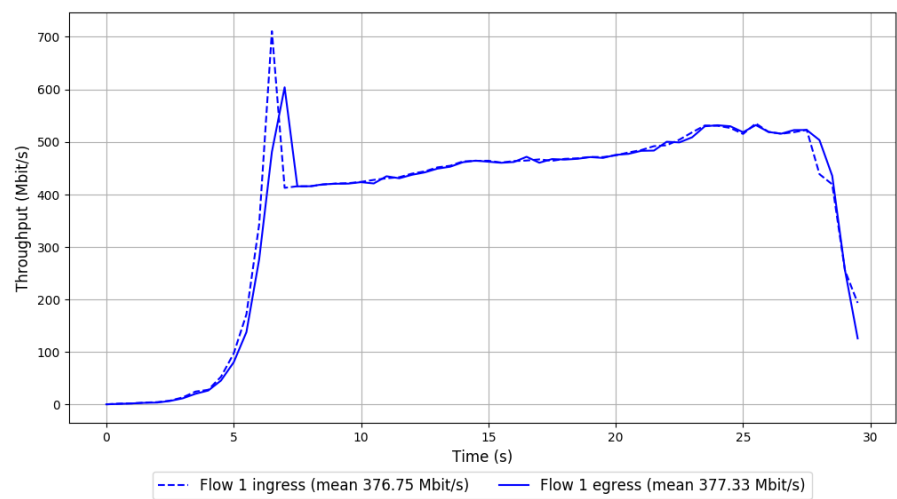
-- Flow 1:

Average throughput: 377.33 Mbit/s

95th percentile per-packet one-way delay: 169.010 ms

Loss rate: 0.85%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-01-31 02:48:34

End at: 2018-01-31 02:49:04

Below is generated by plot.py at 2018-01-31 06:27:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 372.20 Mbit/s

95th percentile per-packet one-way delay: 140.291 ms

Loss rate: 0.90%

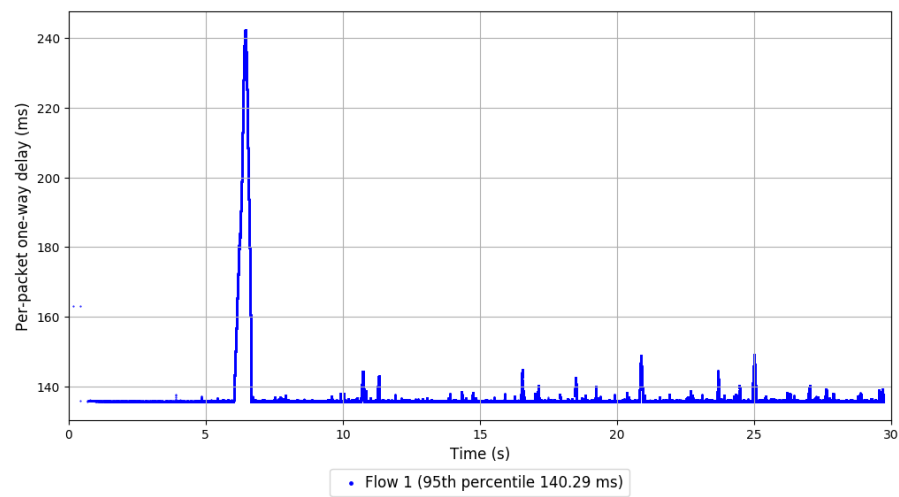
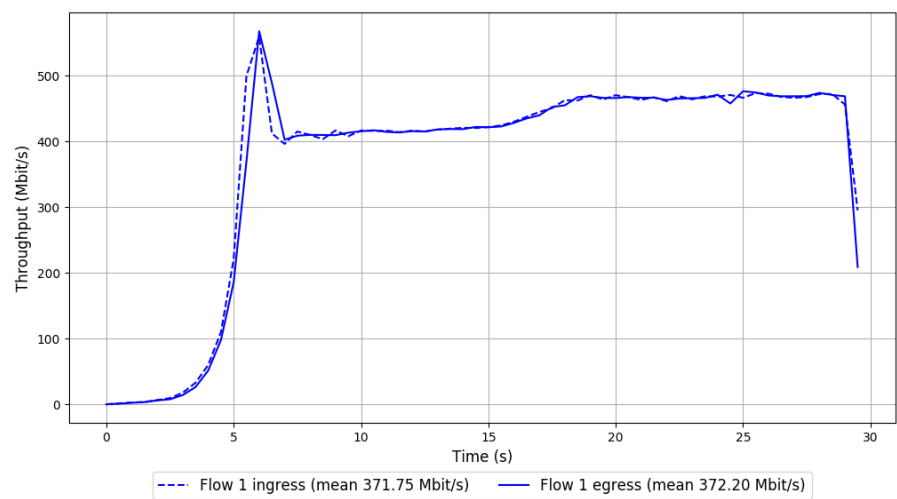
-- Flow 1:

Average throughput: 372.20 Mbit/s

95th percentile per-packet one-way delay: 140.291 ms

Loss rate: 0.90%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-01-31 03:03:24
End at: 2018-01-31 03:03:54

# Below is generated by plot.py at 2018-01-31 06:27:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 390.40 Mbit/s
95th percentile per-packet one-way delay: 166.261 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 390.40 Mbit/s
95th percentile per-packet one-way delay: 166.261 ms
Loss rate: 0.68%
```

Run 10: Report of Vivace-LTE — Data Link

