

Pantheon Report

Generated at 2018-03-21 03:58:45 (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.

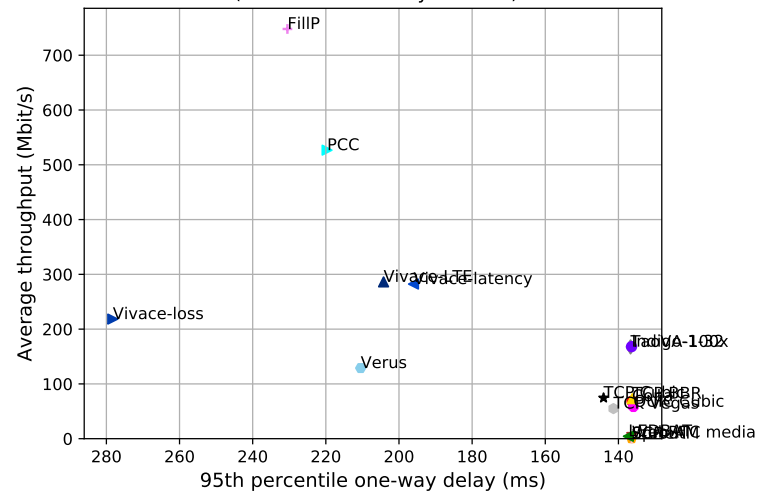
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

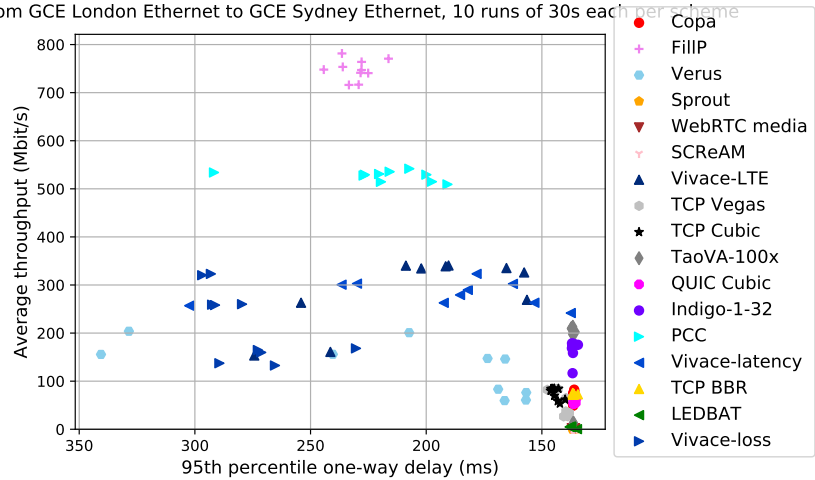
Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 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



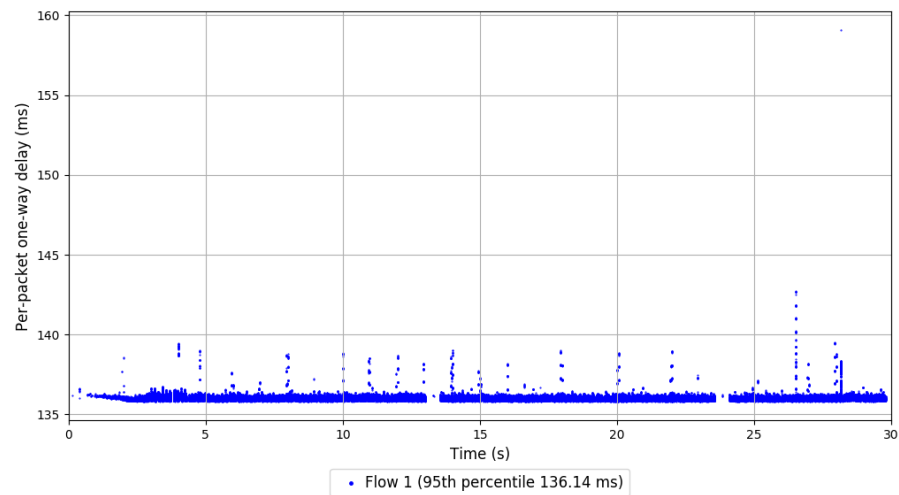
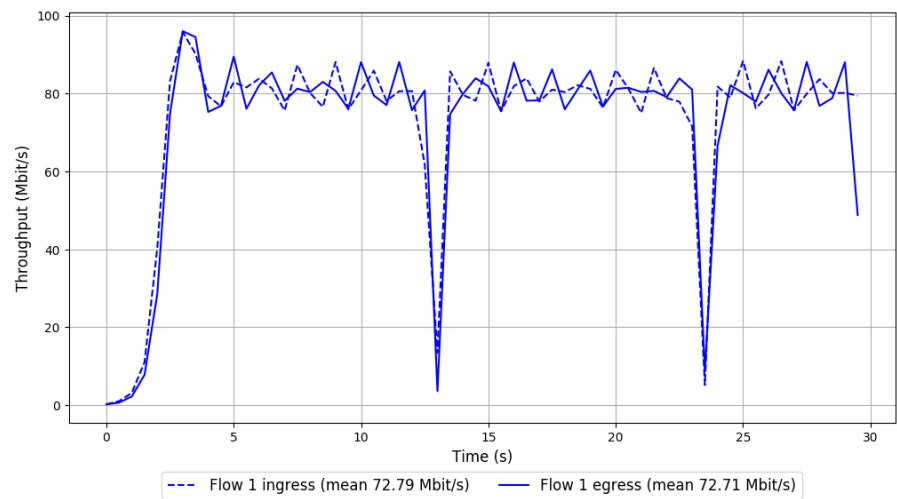
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	73.13	136.22	1.01
TCP Cubic	10	74.47	144.07	1.06
LEDBAT	10	4.36	137.30	1.73
PCC	10	526.70	219.65	2.64
QUIC Cubic	9	58.31	135.91	1.25
SCReAM	10	0.22	136.38	0.89
WebRTC media	10	2.11	136.34	1.04
Sprout	10	0.39	136.41	0.92
TaoVA-100x	10	167.55	136.69	0.96
TCP Vegas	10	54.96	141.36	0.99
Verus	10	128.94	210.48	4.01
Copa	10	68.43	136.29	0.68
FillP	10	747.93	230.51	10.34
Indigo-1-32	10	168.03	136.42	0.92
Vivace-latency	10	282.26	196.04	1.58
Vivace-loss	10	218.34	278.25	5.56
Vivace-LTE	10	286.25	204.21	1.96

```
Run 1: Statistics of TCP BBR

Start at: 2018-03-20 21:33:08
End at: 2018-03-20 21:33:38

# Below is generated by plot.py at 2018-03-21 02:52:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.71 Mbit/s
95th percentile per-packet one-way delay: 136.143 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 72.71 Mbit/s
95th percentile per-packet one-way delay: 136.143 ms
Loss rate: 1.10%
```

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-03-20 21:49:02

End at: 2018-03-20 21:49:32

Below is generated by plot.py at 2018-03-21 02:52:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.61 Mbit/s

95th percentile per-packet one-way delay: 136.474 ms

Loss rate: 0.98%

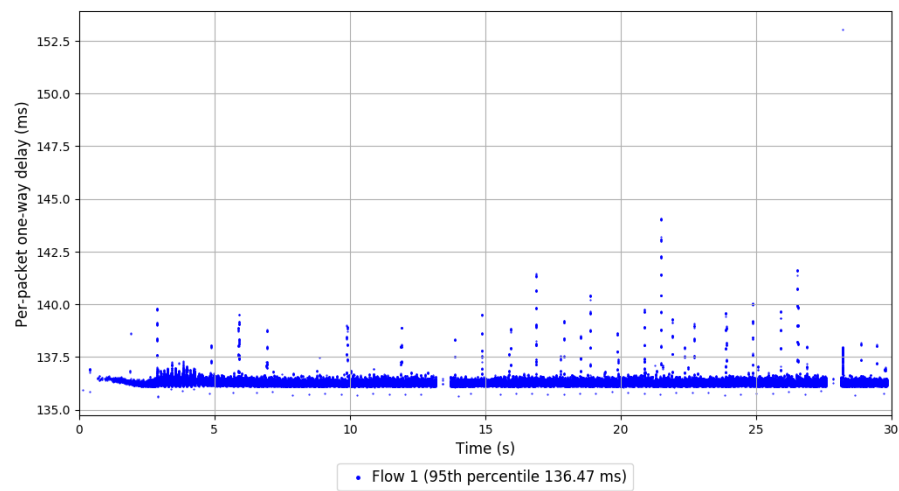
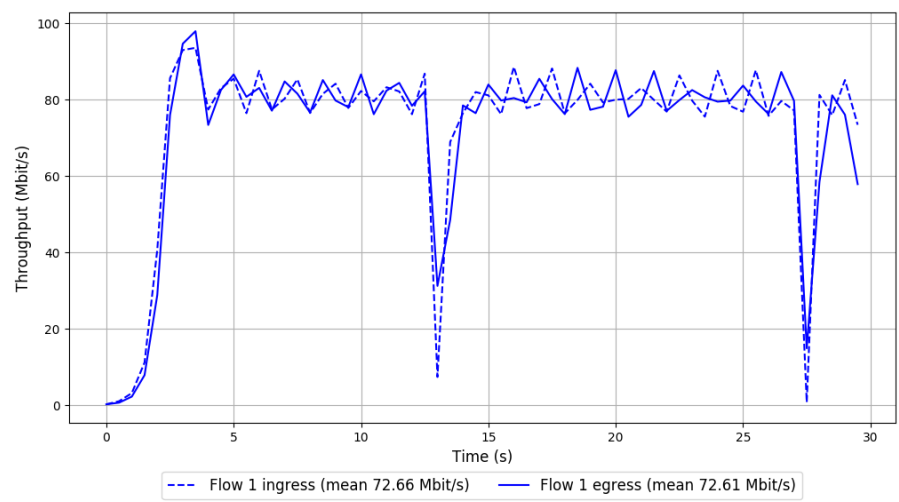
-- Flow 1:

Average throughput: 72.61 Mbit/s

95th percentile per-packet one-way delay: 136.474 ms

Loss rate: 0.98%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-03-20 22:04:36

End at: 2018-03-20 22:05:06

Below is generated by plot.py at 2018-03-21 02:52:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.76 Mbit/s

95th percentile per-packet one-way delay: 136.425 ms

Loss rate: 1.08%

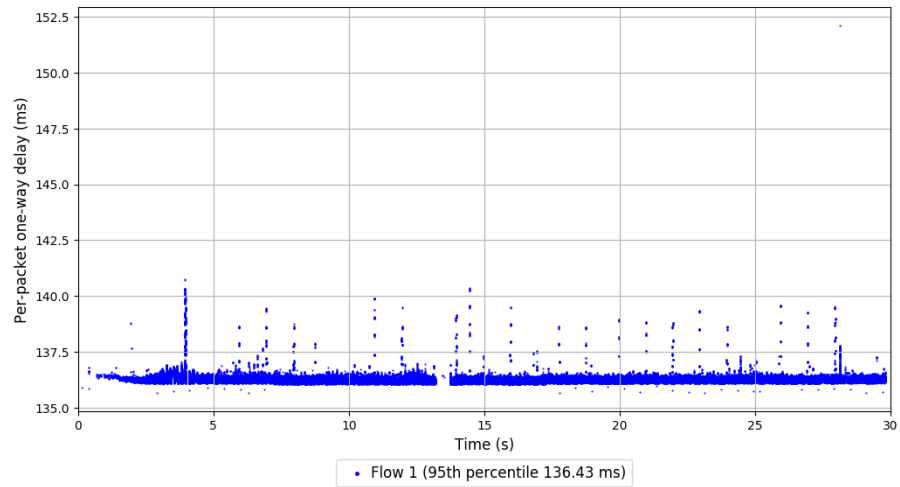
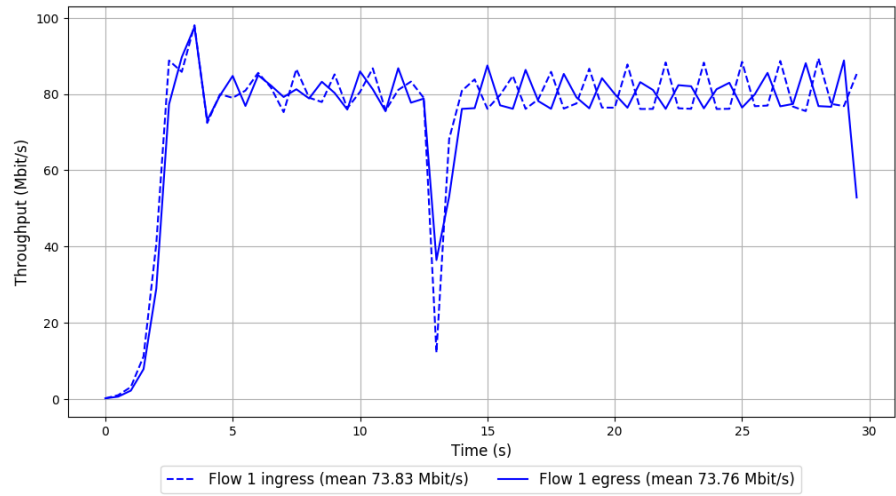
-- Flow 1:

Average throughput: 73.76 Mbit/s

95th percentile per-packet one-way delay: 136.425 ms

Loss rate: 1.08%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-03-20 22:20:50

End at: 2018-03-20 22:21:20

Below is generated by plot.py at 2018-03-21 02:52:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.09 Mbit/s

95th percentile per-packet one-way delay: 136.206 ms

Loss rate: 1.00%

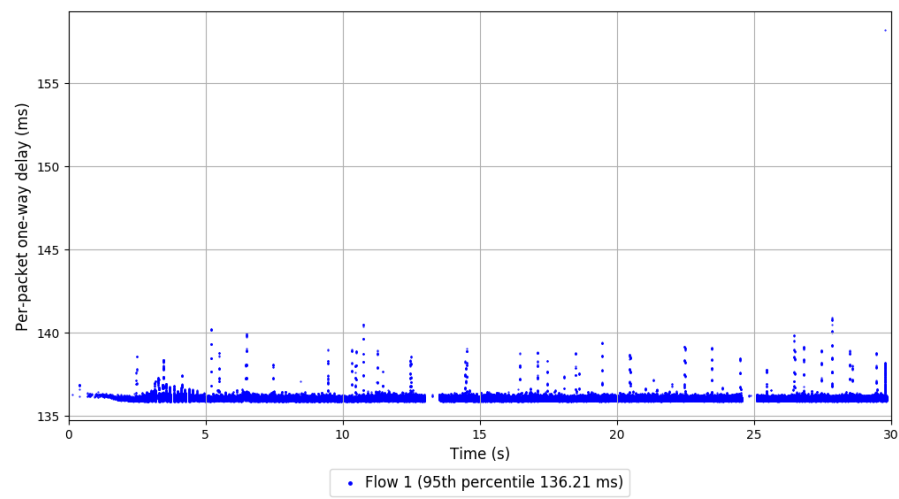
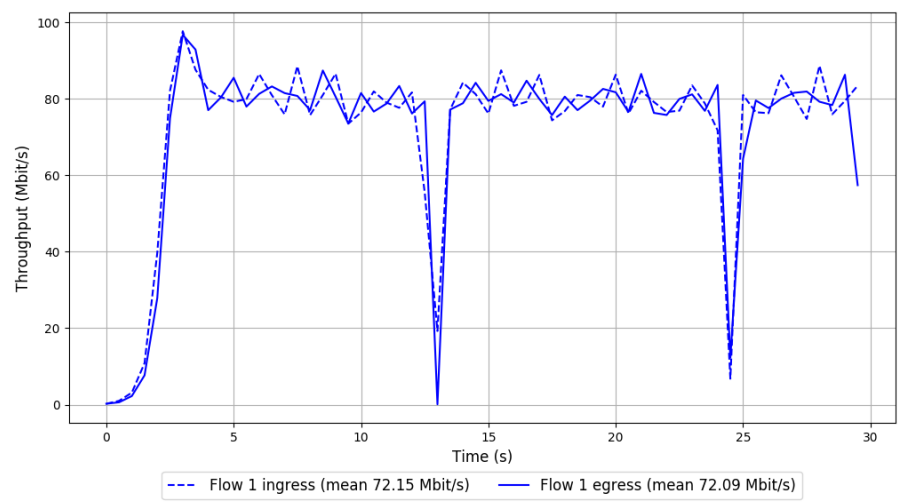
-- Flow 1:

Average throughput: 72.09 Mbit/s

95th percentile per-packet one-way delay: 136.206 ms

Loss rate: 1.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-03-20 22:36:43

End at: 2018-03-20 22:37:13

Below is generated by plot.py at 2018-03-21 02:52:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.10 Mbit/s

95th percentile per-packet one-way delay: 136.276 ms

Loss rate: 0.96%

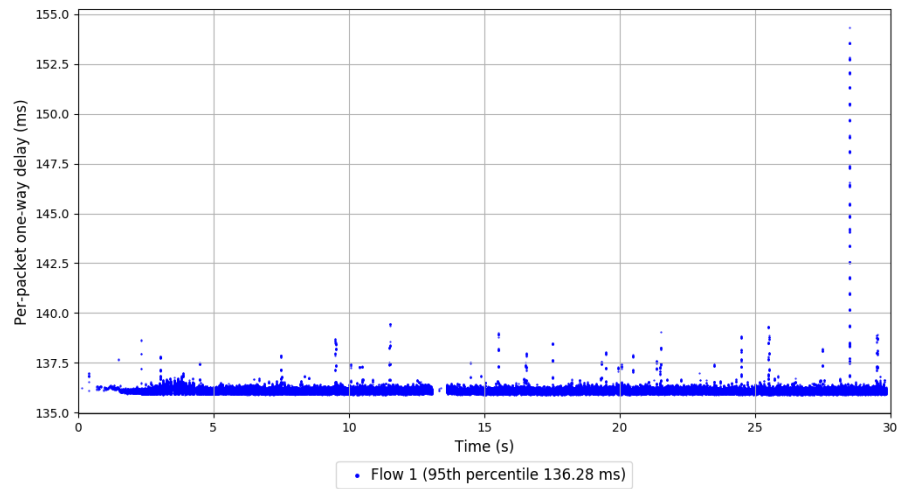
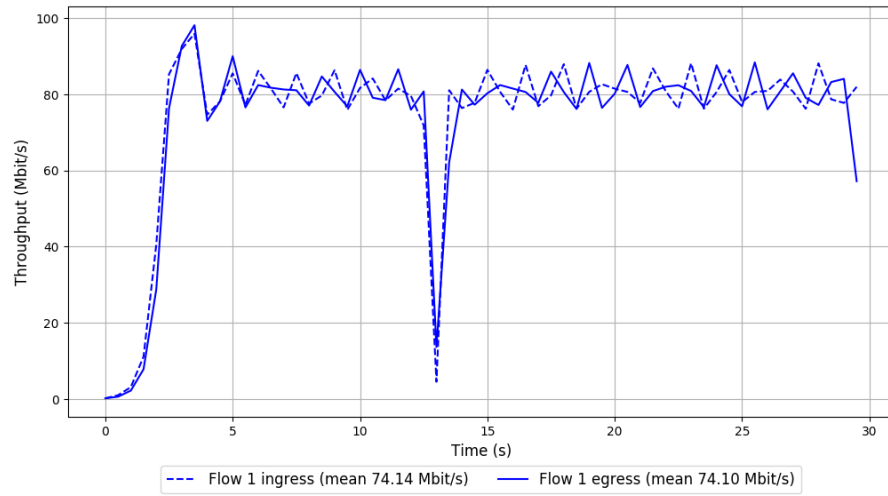
-- Flow 1:

Average throughput: 74.10 Mbit/s

95th percentile per-packet one-way delay: 136.276 ms

Loss rate: 0.96%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-03-20 22:52:44

End at: 2018-03-20 22:53:14

Below is generated by plot.py at 2018-03-21 02:52:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.00 Mbit/s

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

Loss rate: 0.99%

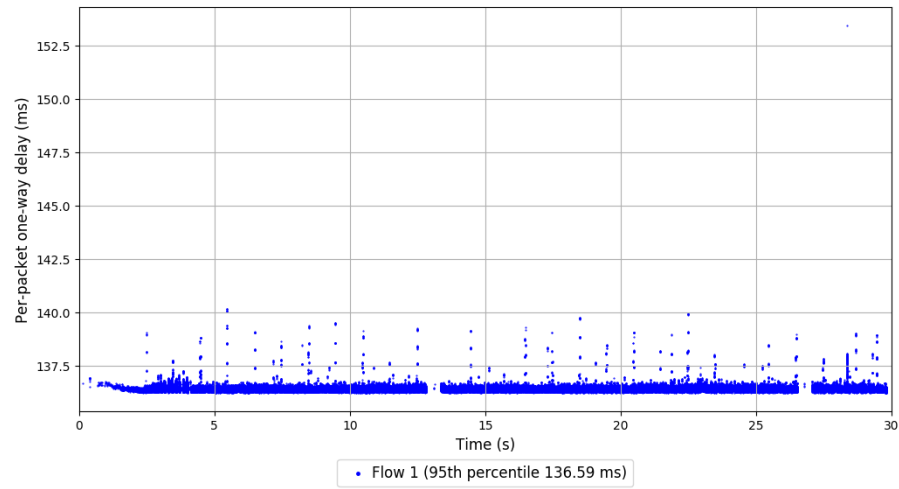
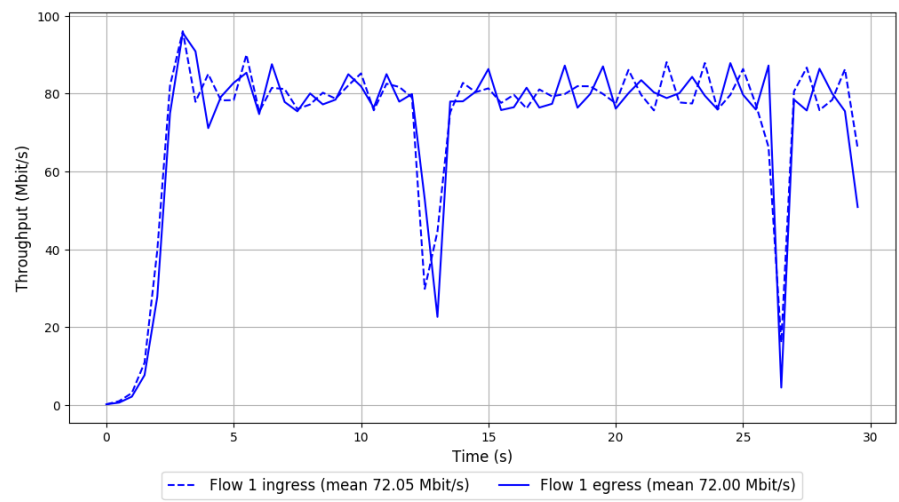
-- Flow 1:

Average throughput: 72.00 Mbit/s

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

Loss rate: 0.99%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-03-20 23:08:19

End at: 2018-03-20 23:08:49

Below is generated by plot.py at 2018-03-21 02:52:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.45 Mbit/s

95th percentile per-packet one-way delay: 136.677 ms

Loss rate: 1.02%

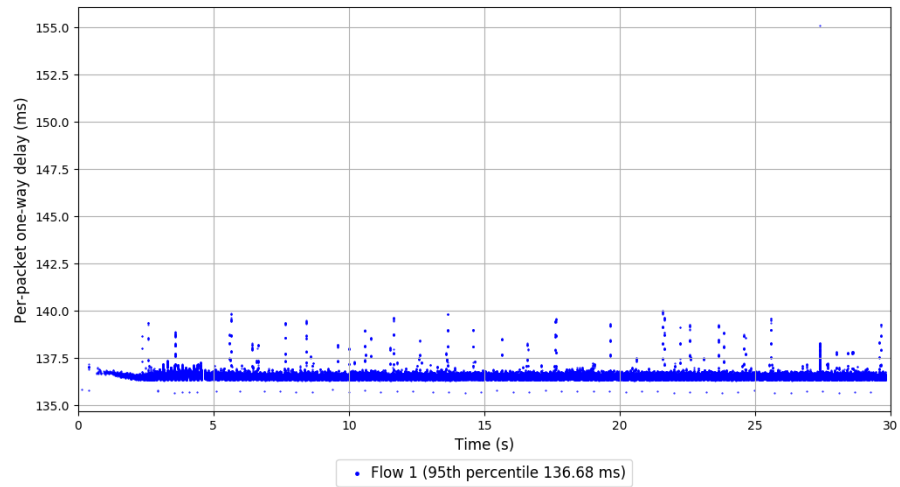
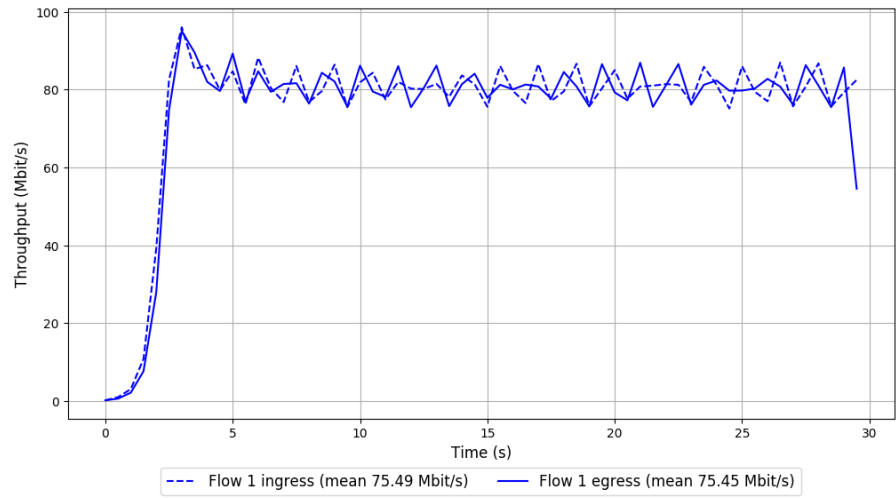
-- Flow 1:

Average throughput: 75.45 Mbit/s

95th percentile per-packet one-way delay: 136.677 ms

Loss rate: 1.02%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-03-20 23:24:10

End at: 2018-03-20 23:24:40

Below is generated by plot.py at 2018-03-21 02:52:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.19 Mbit/s

95th percentile per-packet one-way delay: 136.610 ms

Loss rate: 0.99%

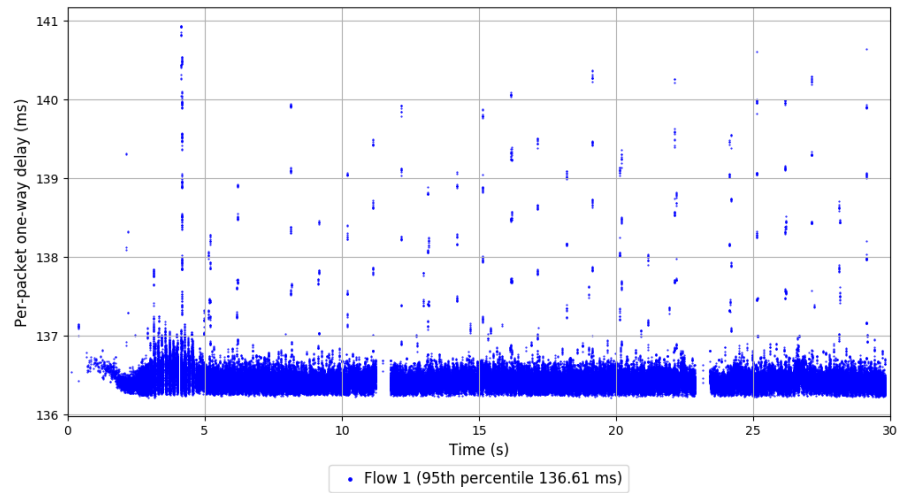
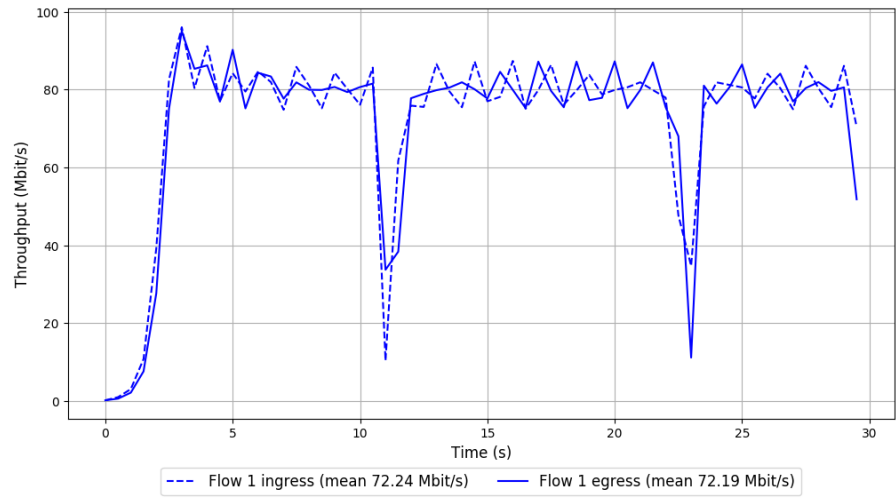
-- Flow 1:

Average throughput: 72.19 Mbit/s

95th percentile per-packet one-way delay: 136.610 ms

Loss rate: 0.99%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-03-20 23:40:04

End at: 2018-03-20 23:40:34

Below is generated by plot.py at 2018-03-21 02:53:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.69 Mbit/s

95th percentile per-packet one-way delay: 136.351 ms

Loss rate: 0.95%

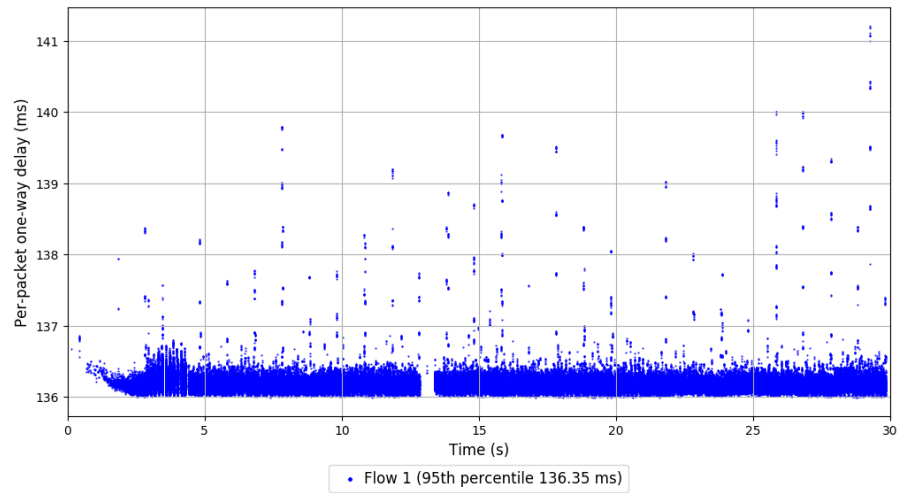
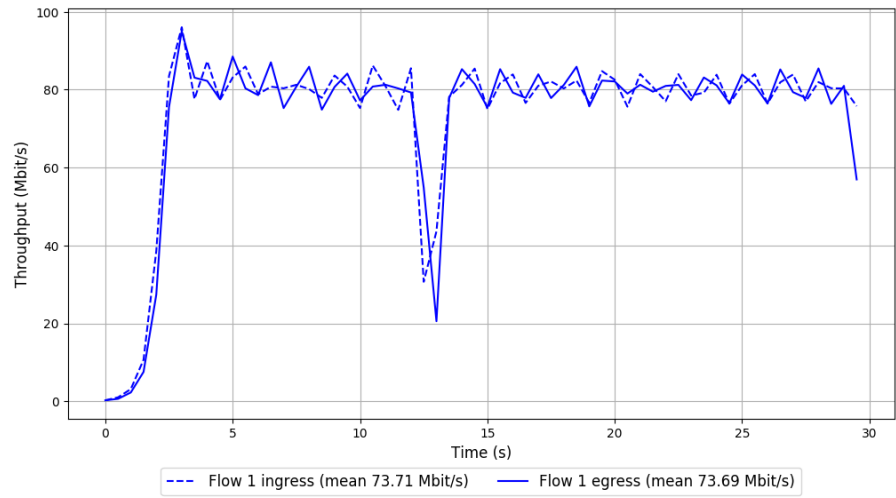
-- Flow 1:

Average throughput: 73.69 Mbit/s

95th percentile per-packet one-way delay: 136.351 ms

Loss rate: 0.95%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-03-20 23:56:02

End at: 2018-03-20 23:56:32

Below is generated by plot.py at 2018-03-21 02:53:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.71 Mbit/s

95th percentile per-packet one-way delay: 134.449 ms

Loss rate: 0.99%

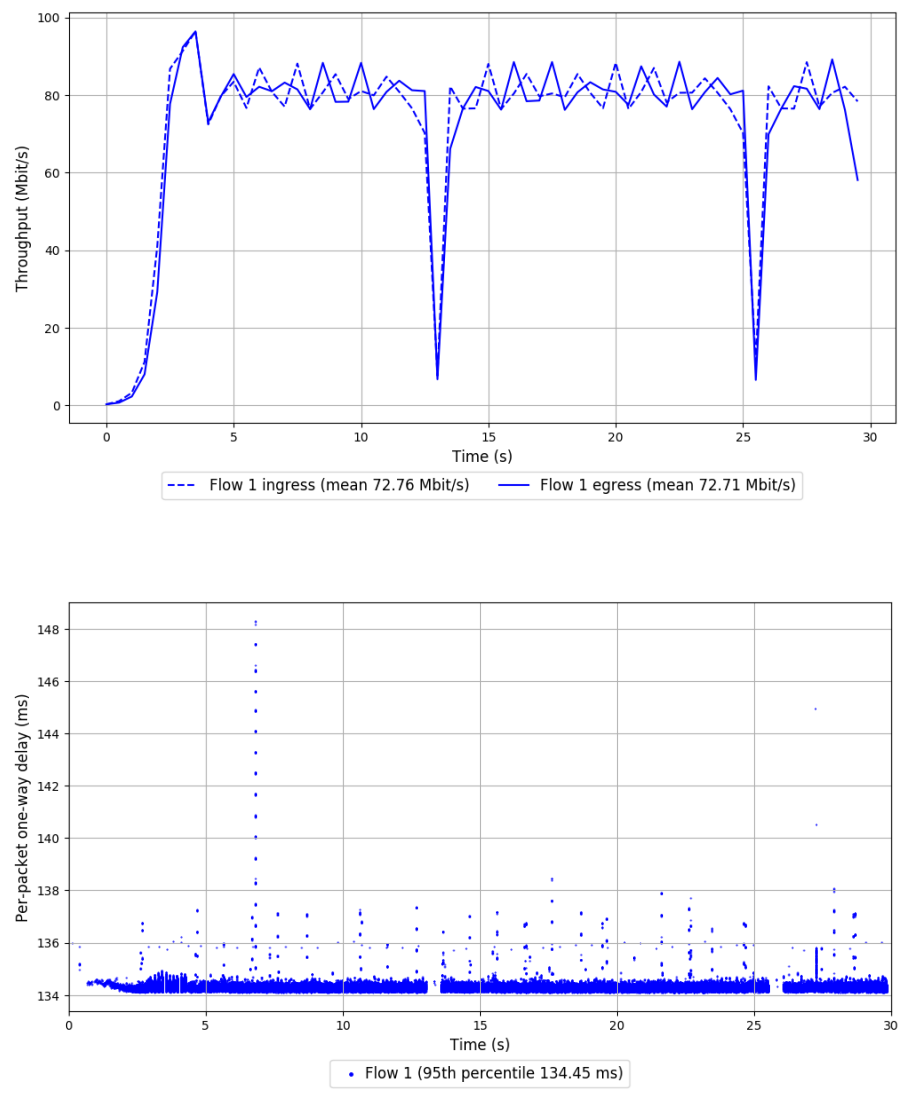
-- Flow 1:

Average throughput: 72.71 Mbit/s

95th percentile per-packet one-way delay: 134.449 ms

Loss rate: 0.99%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-03-20 21:26:34

End at: 2018-03-20 21:27:04

Below is generated by plot.py at 2018-03-21 02:53:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.04 Mbit/s

95th percentile per-packet one-way delay: 145.468 ms

Loss rate: 0.99%

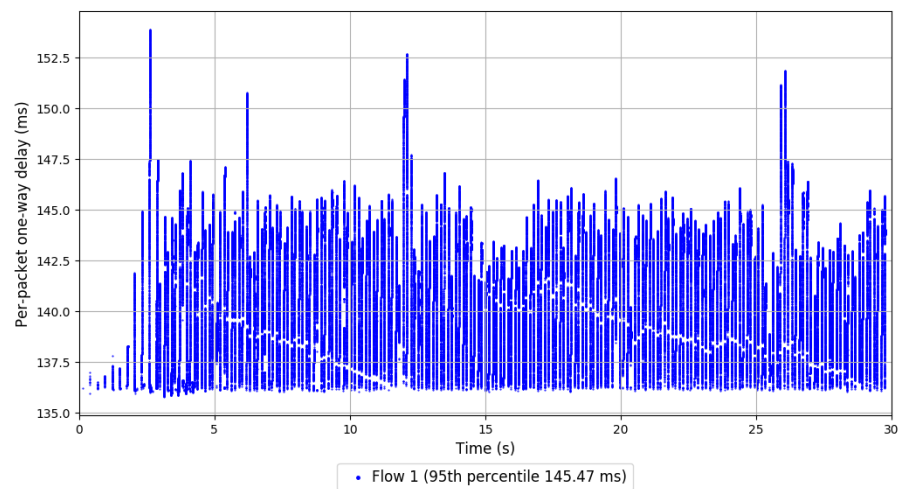
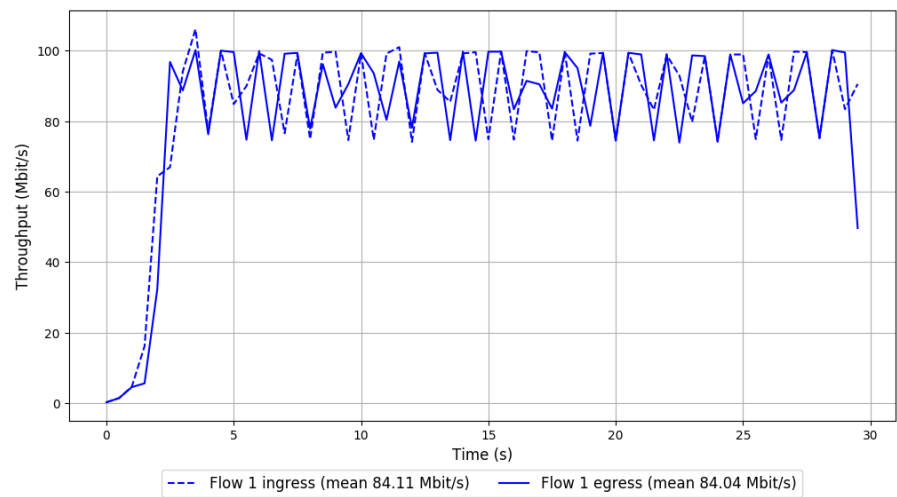
-- Flow 1:

Average throughput: 84.04 Mbit/s

95th percentile per-packet one-way delay: 145.468 ms

Loss rate: 0.99%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-03-20 21:42:31

End at: 2018-03-20 21:43:01

Below is generated by plot.py at 2018-03-21 02:53:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.55 Mbit/s

95th percentile per-packet one-way delay: 142.206 ms

Loss rate: 1.48%

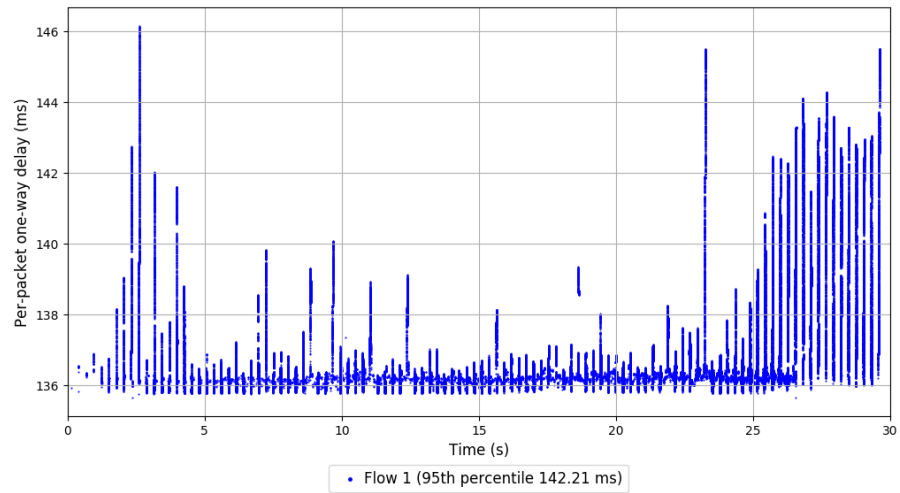
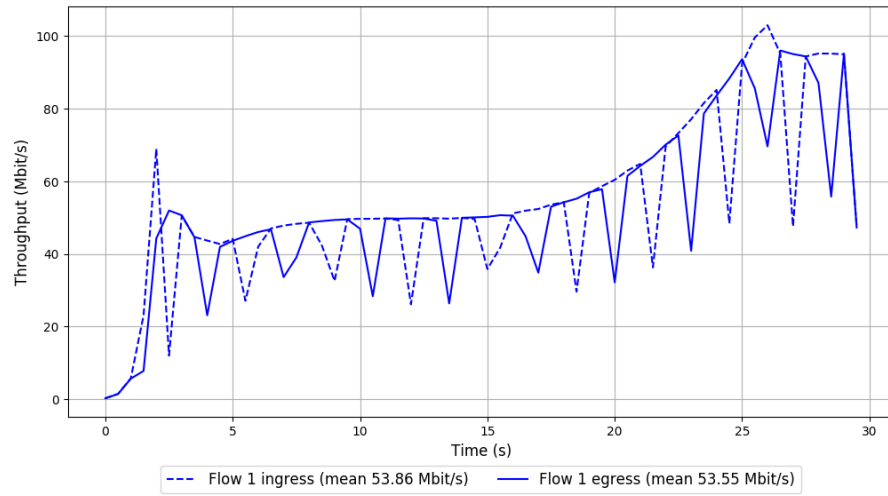
-- Flow 1:

Average throughput: 53.55 Mbit/s

95th percentile per-packet one-way delay: 142.206 ms

Loss rate: 1.48%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-03-20 21:58:03

End at: 2018-03-20 21:58:33

Below is generated by plot.py at 2018-03-21 02:53:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.71 Mbit/s

95th percentile per-packet one-way delay: 144.652 ms

Loss rate: 0.96%

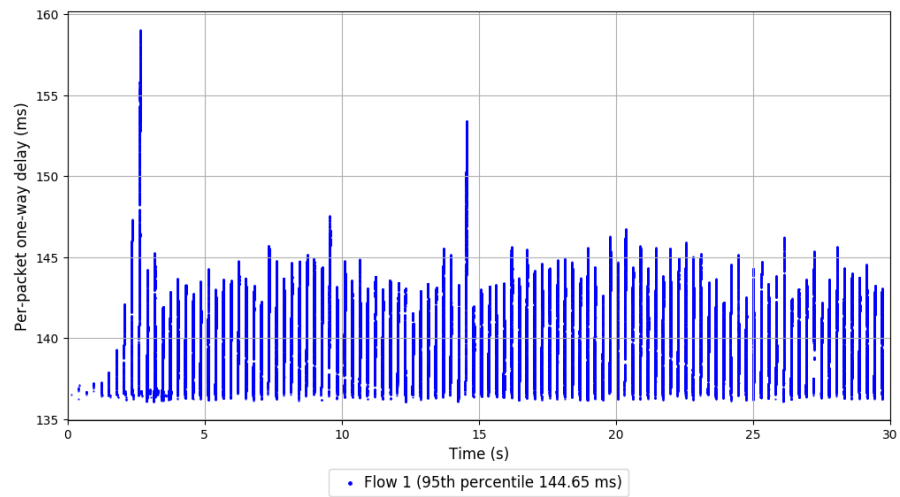
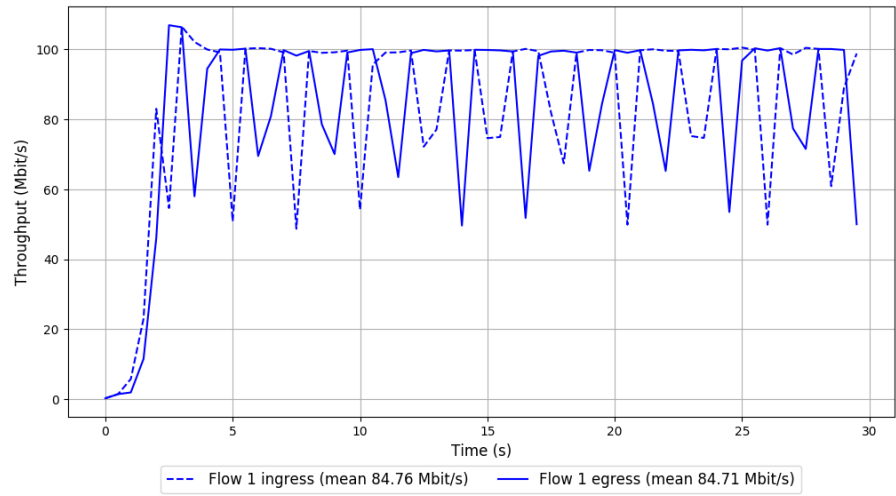
-- Flow 1:

Average throughput: 84.71 Mbit/s

95th percentile per-packet one-way delay: 144.652 ms

Loss rate: 0.96%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-03-20 22:14:17

End at: 2018-03-20 22:14:47

Below is generated by plot.py at 2018-03-21 02:53:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.18 Mbit/s

95th percentile per-packet one-way delay: 146.220 ms

Loss rate: 0.78%

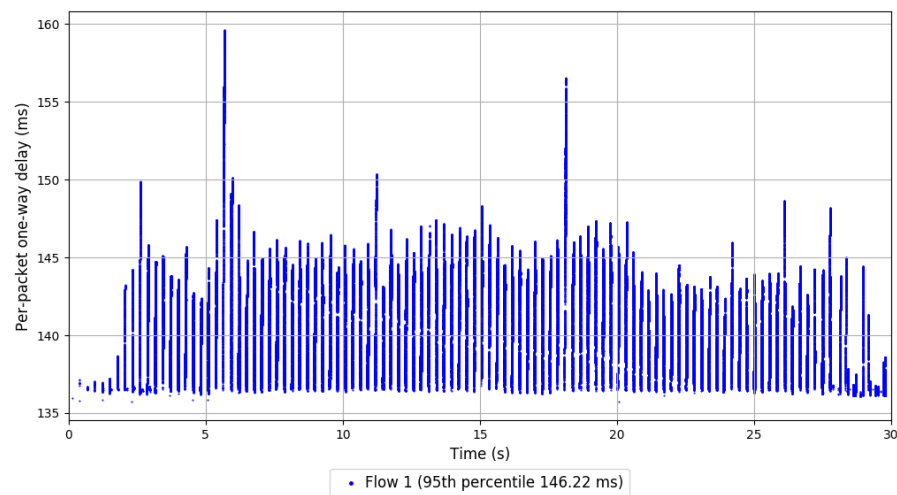
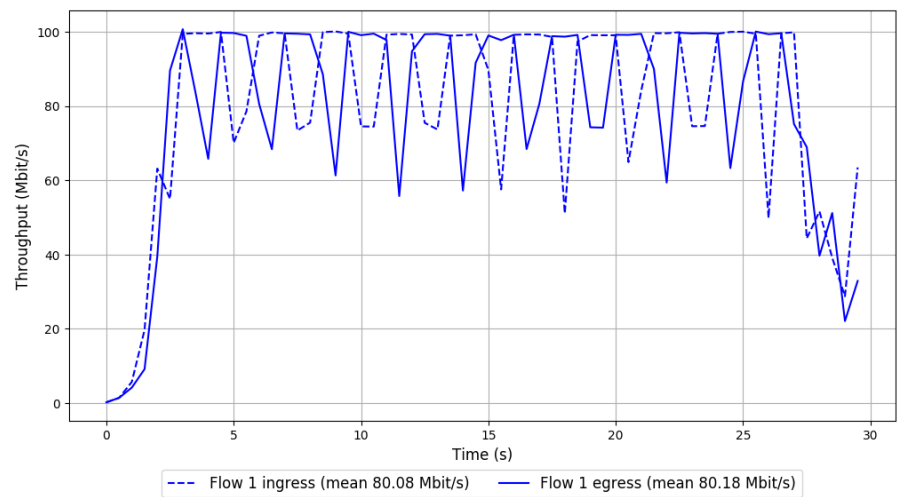
-- Flow 1:

Average throughput: 80.18 Mbit/s

95th percentile per-packet one-way delay: 146.220 ms

Loss rate: 0.78%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-03-20 22:30:16

End at: 2018-03-20 22:30:46

Below is generated by plot.py at 2018-03-21 02:53:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.04 Mbit/s

95th percentile per-packet one-way delay: 146.017 ms

Loss rate: 0.99%

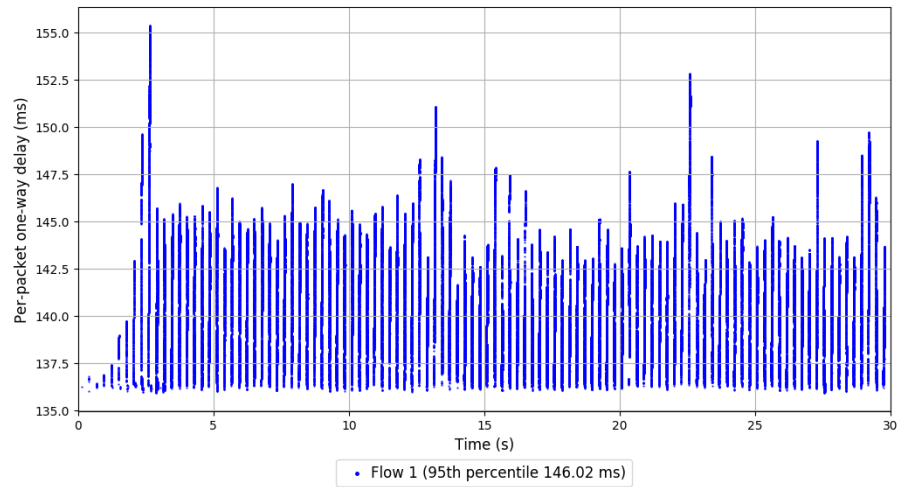
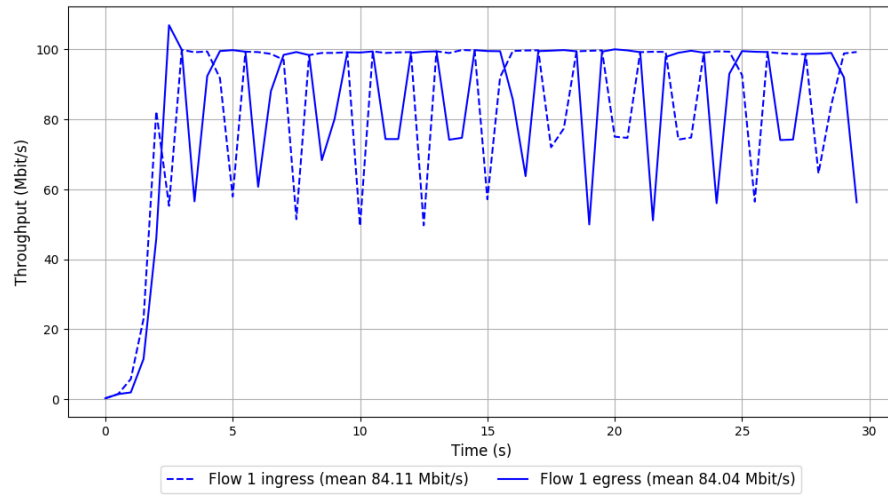
-- Flow 1:

Average throughput: 84.04 Mbit/s

95th percentile per-packet one-way delay: 146.017 ms

Loss rate: 0.99%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-03-20 22:46:10

End at: 2018-03-20 22:46:40

Below is generated by plot.py at 2018-03-21 02:53:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.57 Mbit/s

95th percentile per-packet one-way delay: 144.656 ms

Loss rate: 0.77%

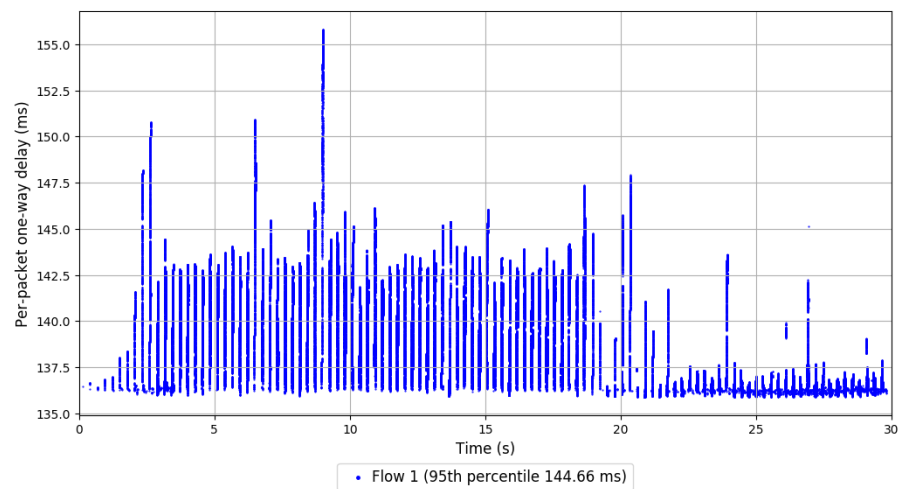
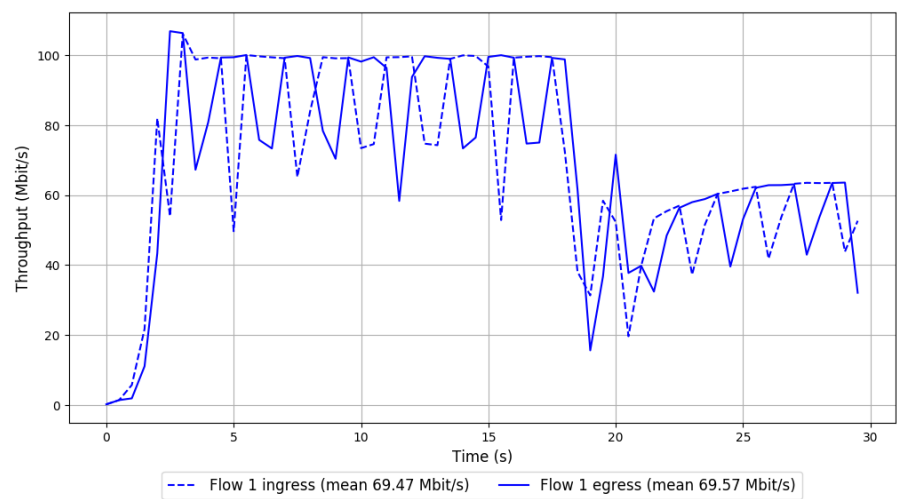
-- Flow 1:

Average throughput: 69.57 Mbit/s

95th percentile per-packet one-way delay: 144.656 ms

Loss rate: 0.77%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-03-20 23:02:00

End at: 2018-03-20 23:02:30

Below is generated by plot.py at 2018-03-21 02:54:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.52 Mbit/s

95th percentile per-packet one-way delay: 143.110 ms

Loss rate: 1.34%

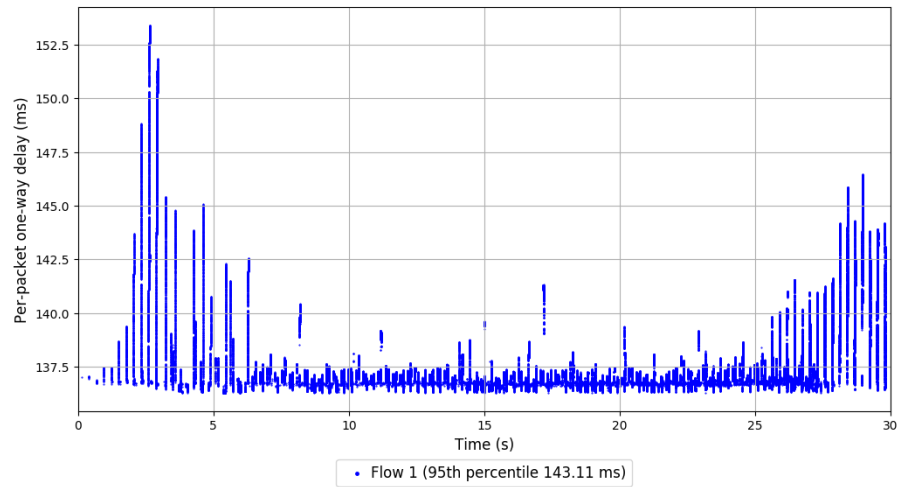
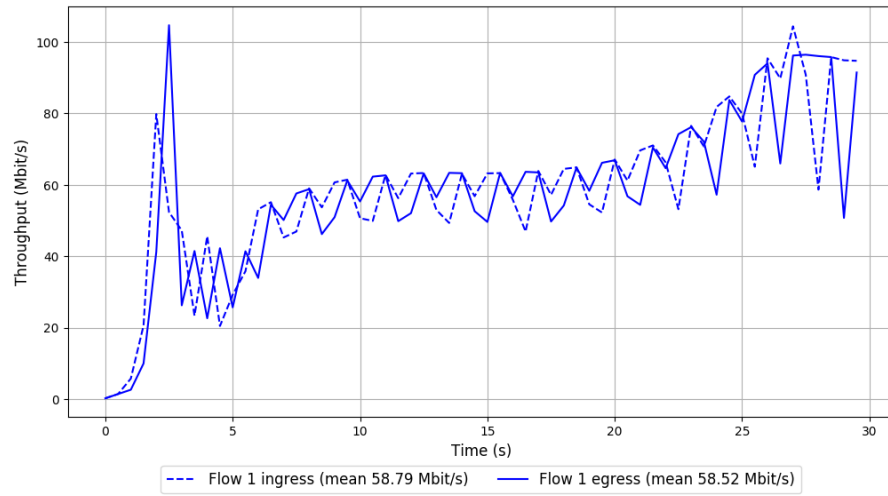
-- Flow 1:

Average throughput: 58.52 Mbit/s

95th percentile per-packet one-way delay: 143.110 ms

Loss rate: 1.34%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-03-20 23:17:51

End at: 2018-03-20 23:18:21

Below is generated by plot.py at 2018-03-21 02:54:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.74 Mbit/s

95th percentile per-packet one-way delay: 139.938 ms

Loss rate: 1.27%

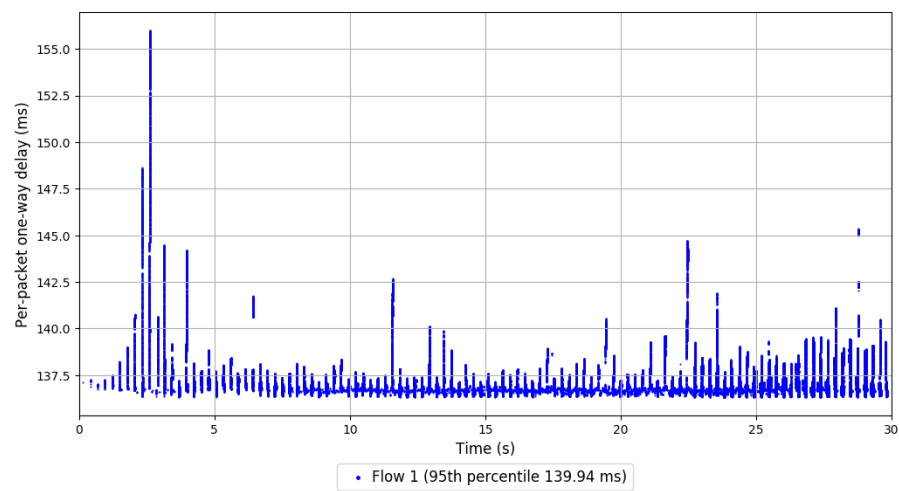
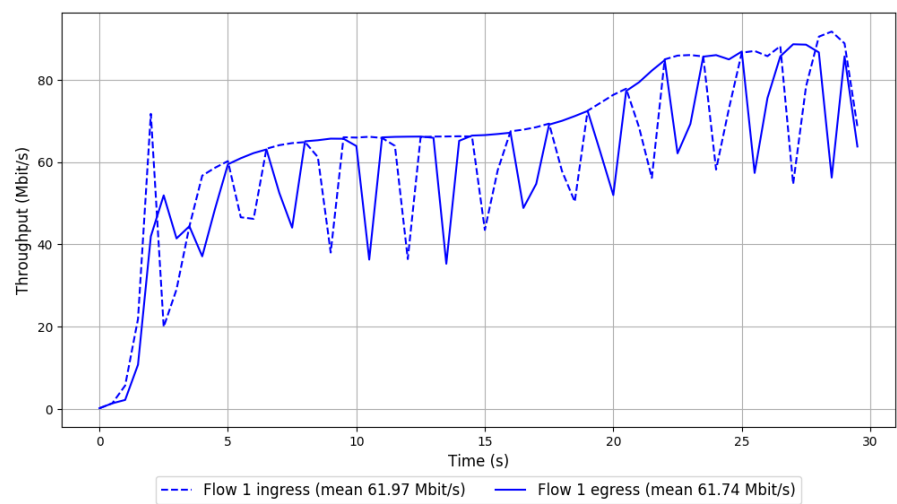
-- Flow 1:

Average throughput: 61.74 Mbit/s

95th percentile per-packet one-way delay: 139.938 ms

Loss rate: 1.27%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-03-20 23:33:36

End at: 2018-03-20 23:34:06

Below is generated by plot.py at 2018-03-21 02:54:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.02 Mbit/s

95th percentile per-packet one-way delay: 145.595 ms

Loss rate: 0.99%

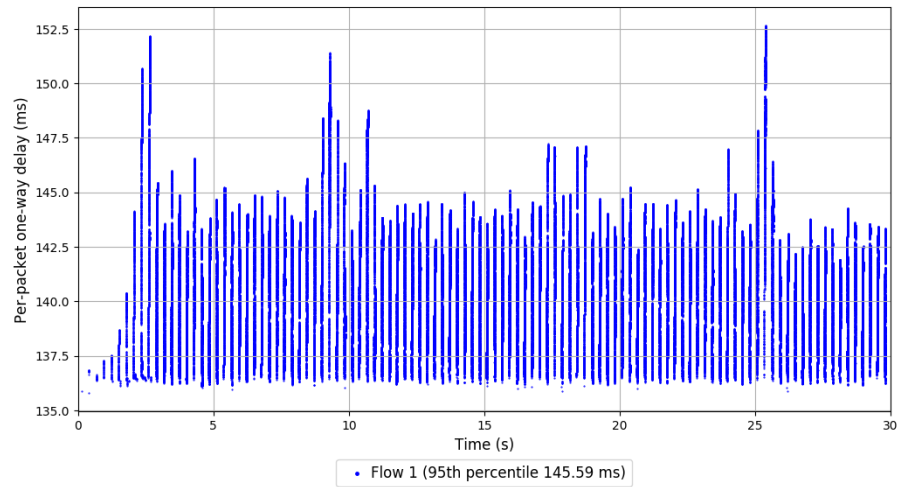
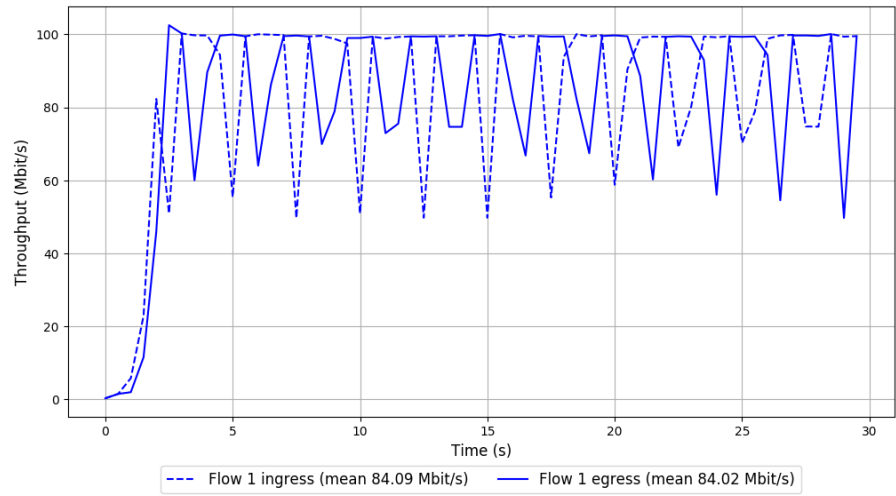
-- Flow 1:

Average throughput: 84.02 Mbit/s

95th percentile per-packet one-way delay: 145.595 ms

Loss rate: 0.99%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-03-20 23:49:28

End at: 2018-03-20 23:49:58

Below is generated by plot.py at 2018-03-21 02:54:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.32 Mbit/s

95th percentile per-packet one-way delay: 142.846 ms

Loss rate: 0.98%

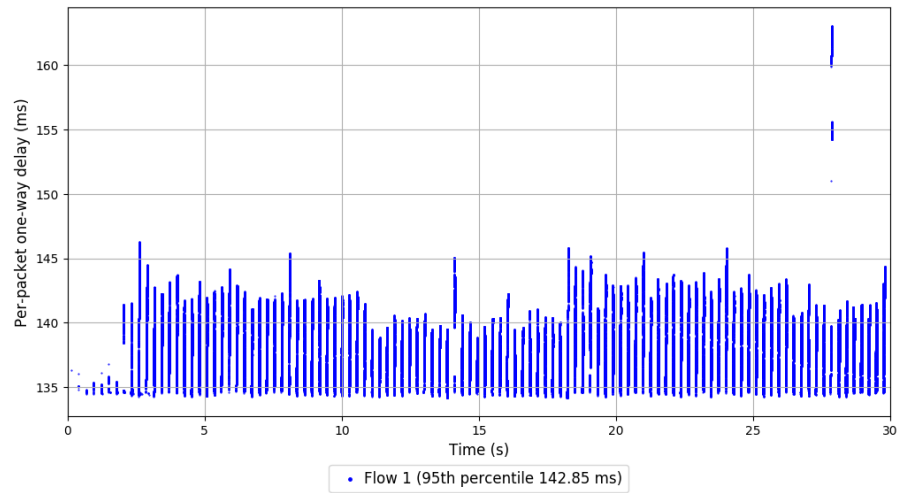
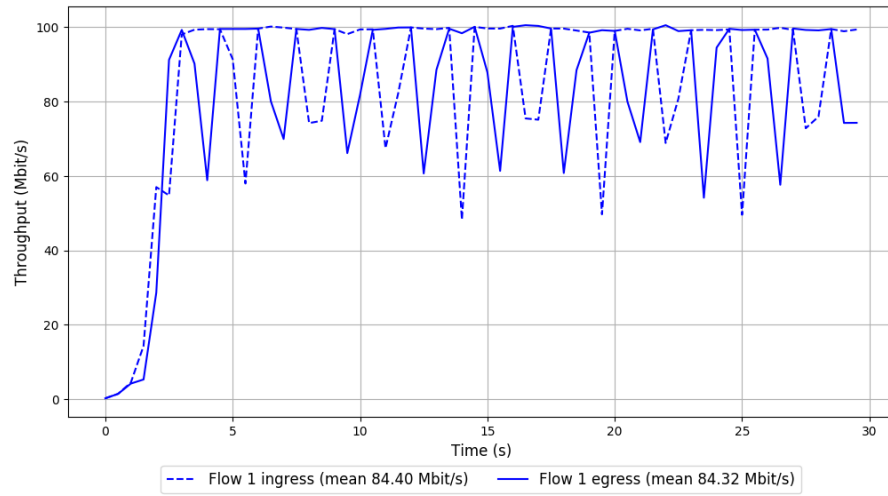
-- Flow 1:

Average throughput: 84.32 Mbit/s

95th percentile per-packet one-way delay: 142.846 ms

Loss rate: 0.98%

Run 10: Report of TCP Cubic — Data Link

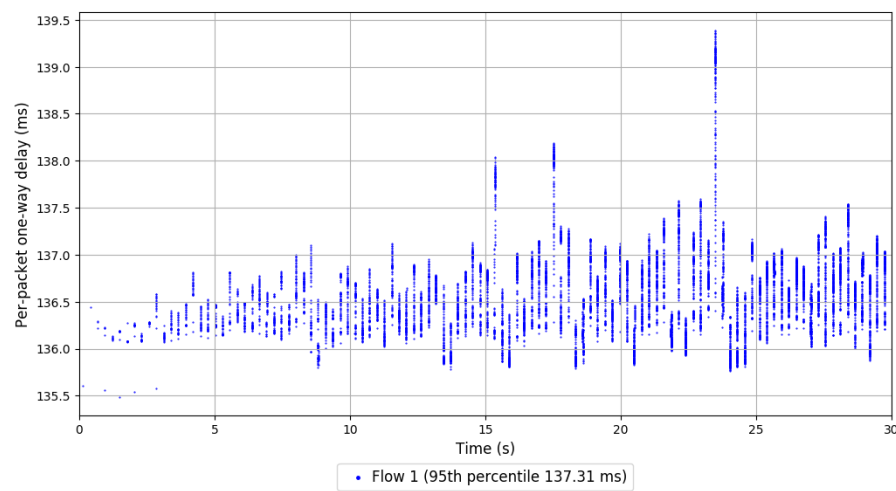
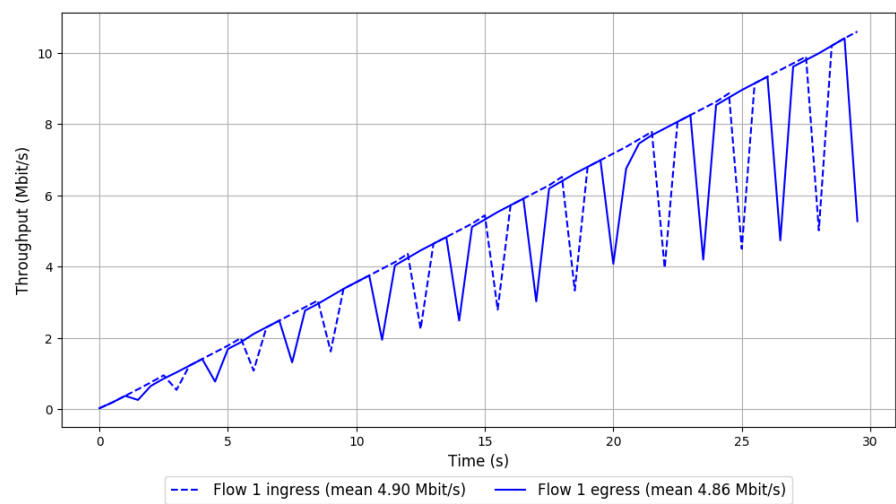


```
Run 1: Statistics of LEDBAT

Start at: 2018-03-20 21:30:06
End at: 2018-03-20 21:30:36

# Below is generated by plot.py at 2018-03-21 02:54:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.86 Mbit/s
95th percentile per-packet one-way delay: 137.309 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 4.86 Mbit/s
95th percentile per-packet one-way delay: 137.309 ms
Loss rate: 1.82%
```

Run 1: Report of LEDBAT — Data Link

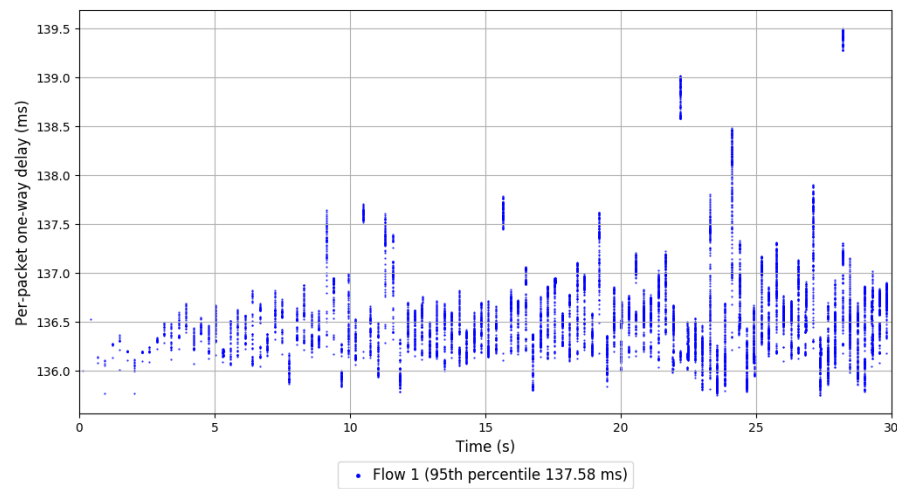
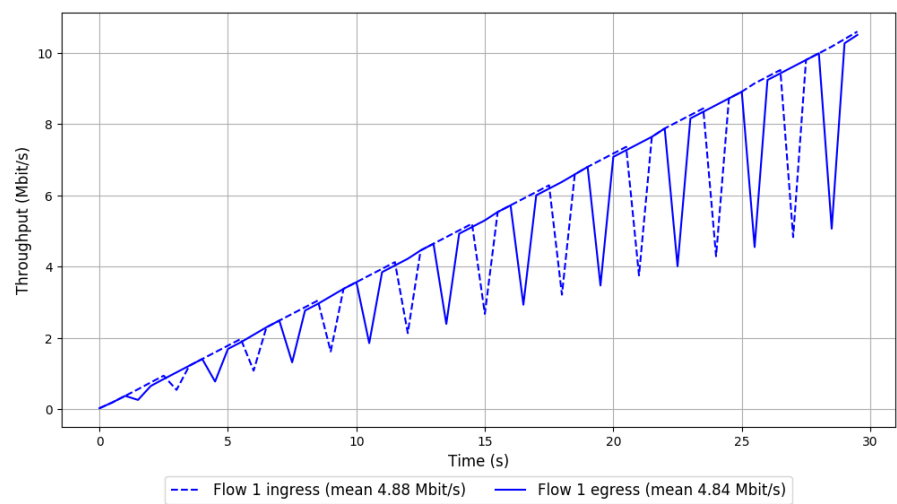


```
Run 2: Statistics of LEDBAT

Start at: 2018-03-20 21:46:00
End at: 2018-03-20 21:46:30

# Below is generated by plot.py at 2018-03-21 02:54:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.84 Mbit/s
95th percentile per-packet one-way delay: 137.577 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 4.84 Mbit/s
95th percentile per-packet one-way delay: 137.577 ms
Loss rate: 1.82%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-03-20 22:01:34

End at: 2018-03-20 22:02:04

Below is generated by plot.py at 2018-03-21 02:54:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.77 Mbit/s

95th percentile per-packet one-way delay: 137.547 ms

Loss rate: 1.83%

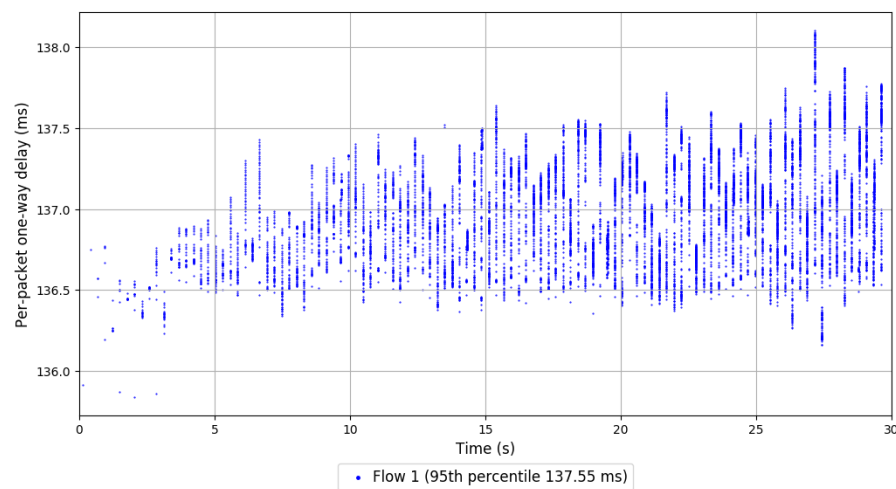
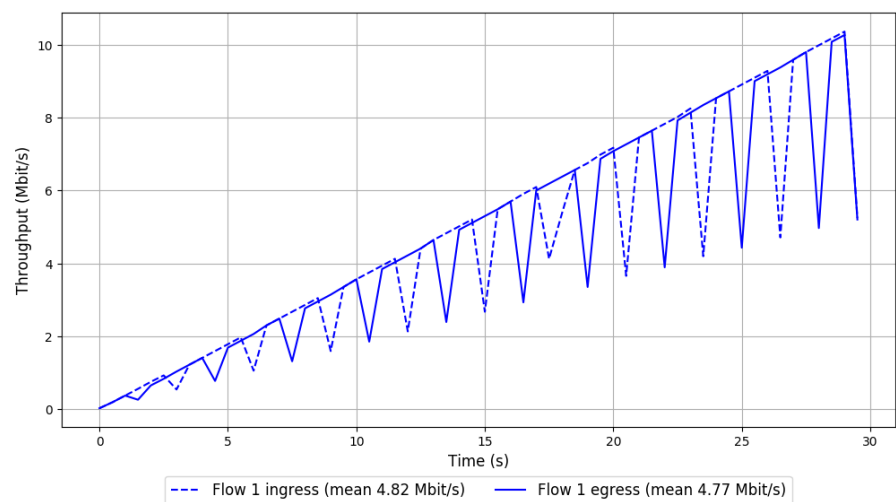
-- Flow 1:

Average throughput: 4.77 Mbit/s

95th percentile per-packet one-way delay: 137.547 ms

Loss rate: 1.83%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-03-20 22:17:49

End at: 2018-03-20 22:18:19

Below is generated by plot.py at 2018-03-21 02:54:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.80 Mbit/s

95th percentile per-packet one-way delay: 137.494 ms

Loss rate: 1.83%

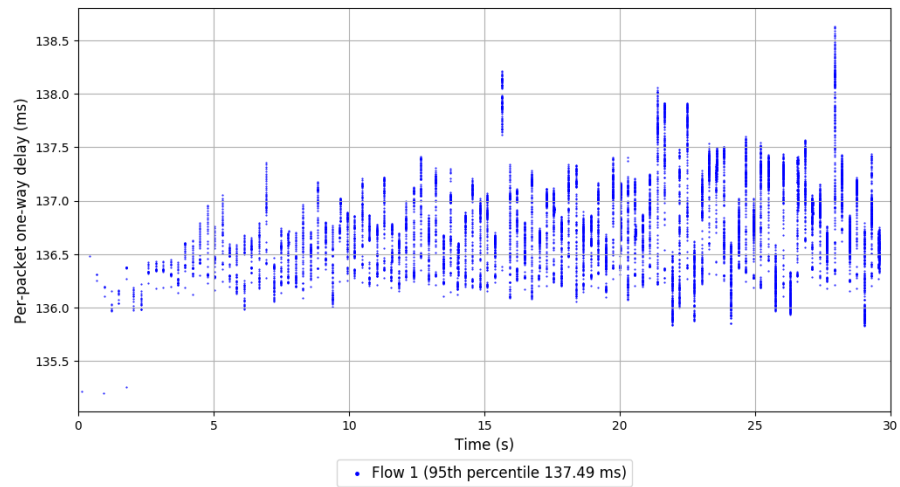
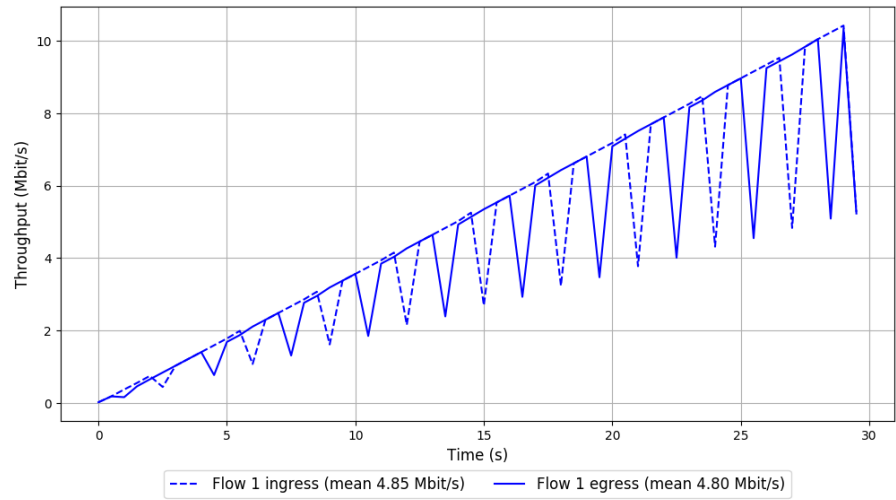
-- Flow 1:

Average throughput: 4.80 Mbit/s

95th percentile per-packet one-way delay: 137.494 ms

Loss rate: 1.83%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-03-20 22:33:42

End at: 2018-03-20 22:34:12

Below is generated by plot.py at 2018-03-21 02:54:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 137.487 ms

Loss rate: 1.83%

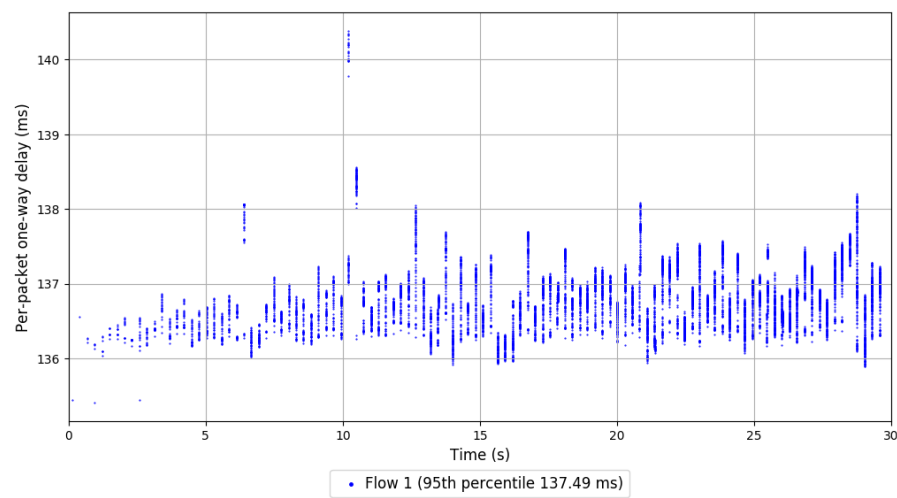
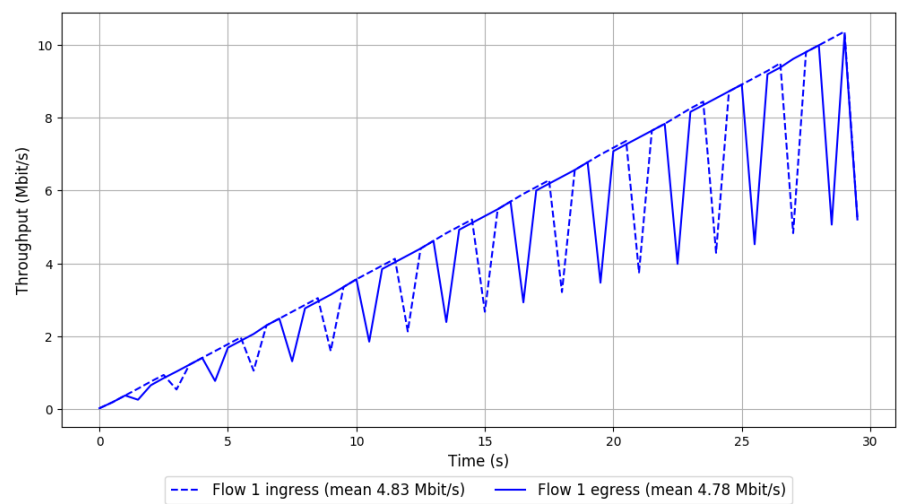
-- Flow 1:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 137.487 ms

Loss rate: 1.83%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-03-20 22:49:41

End at: 2018-03-20 22:50:11

Below is generated by plot.py at 2018-03-21 02:54:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.80 Mbit/s

95th percentile per-packet one-way delay: 137.667 ms

Loss rate: 1.83%

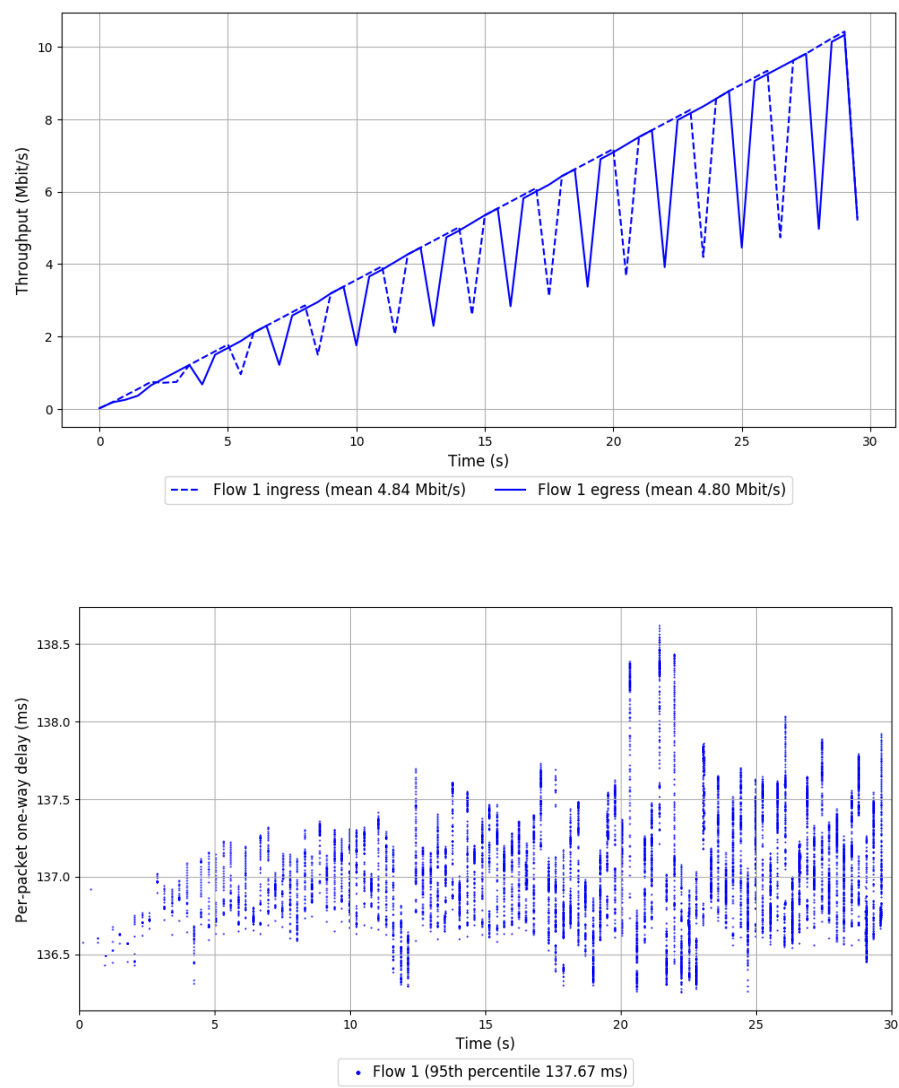
-- Flow 1:

Average throughput: 4.80 Mbit/s

95th percentile per-packet one-way delay: 137.667 ms

Loss rate: 1.83%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-03-20 23:05:17

End at: 2018-03-20 23:05:47

Below is generated by plot.py at 2018-03-21 02:54:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.79 Mbit/s

95th percentile per-packet one-way delay: 138.032 ms

Loss rate: 1.84%

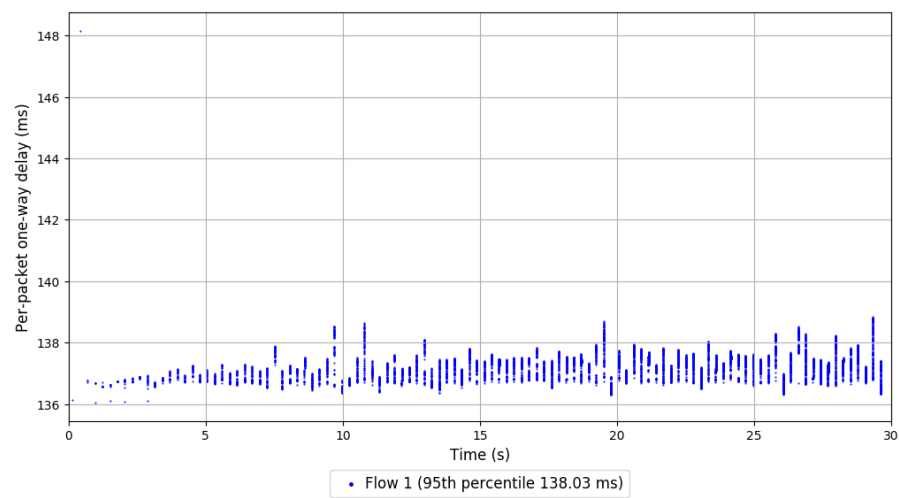
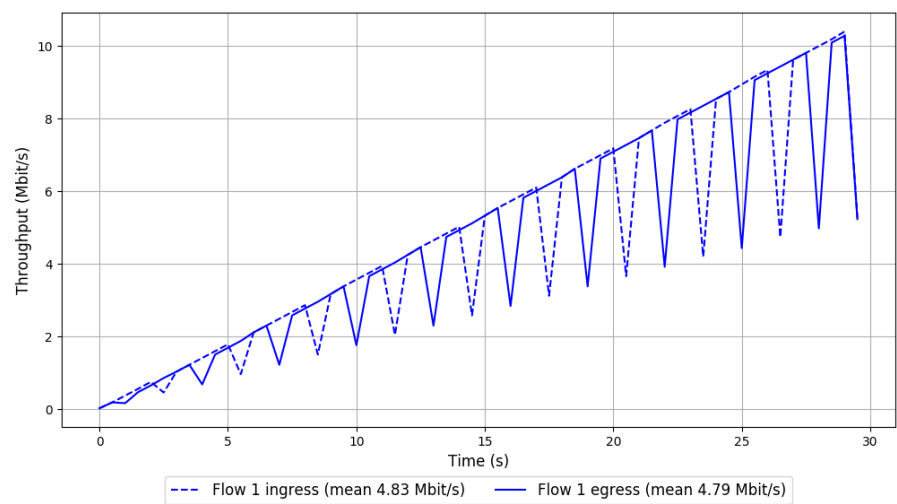
-- Flow 1:

Average throughput: 4.79 Mbit/s

95th percentile per-packet one-way delay: 138.032 ms

Loss rate: 1.84%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-03-20 23:21:08

End at: 2018-03-20 23:21:38

Below is generated by plot.py at 2018-03-21 02:54:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.81 Mbit/s

95th percentile per-packet one-way delay: 137.622 ms

Loss rate: 1.83%

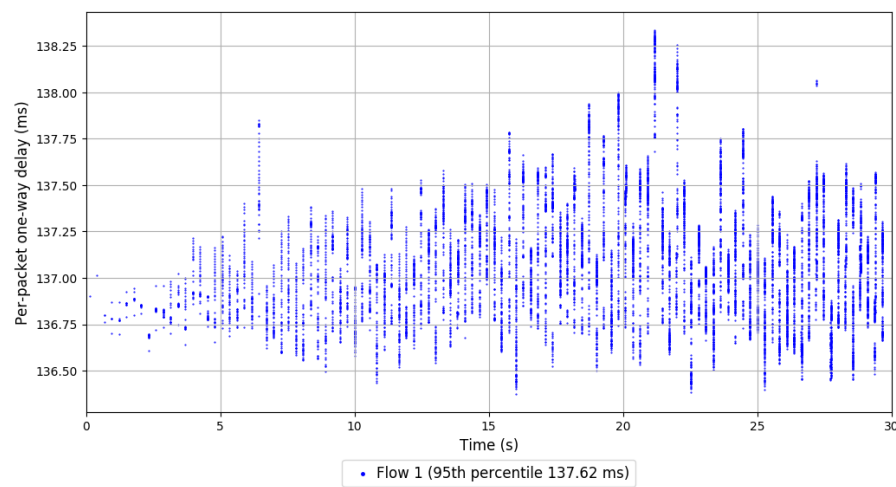
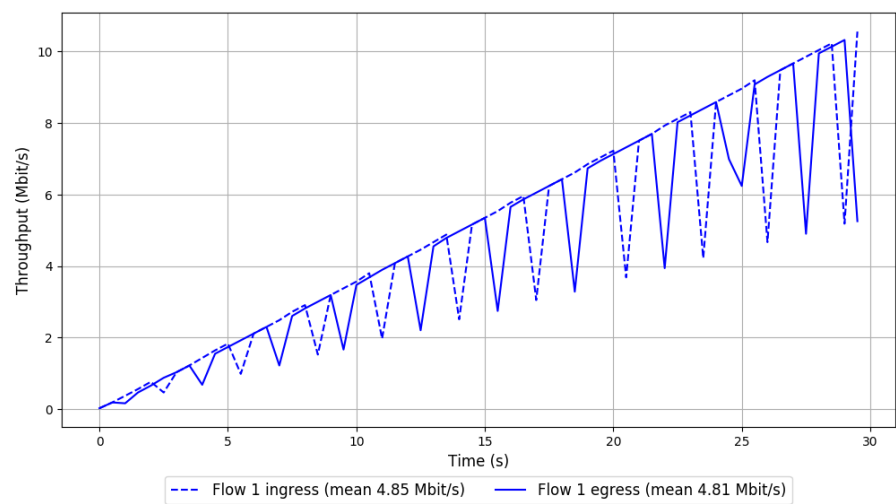
-- Flow 1:

Average throughput: 4.81 Mbit/s

95th percentile per-packet one-way delay: 137.622 ms

Loss rate: 1.83%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-03-20 23:37:02

End at: 2018-03-20 23:37:32

Below is generated by plot.py at 2018-03-21 02:54:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.85 Mbit/s

95th percentile per-packet one-way delay: 137.399 ms

Loss rate: 1.82%

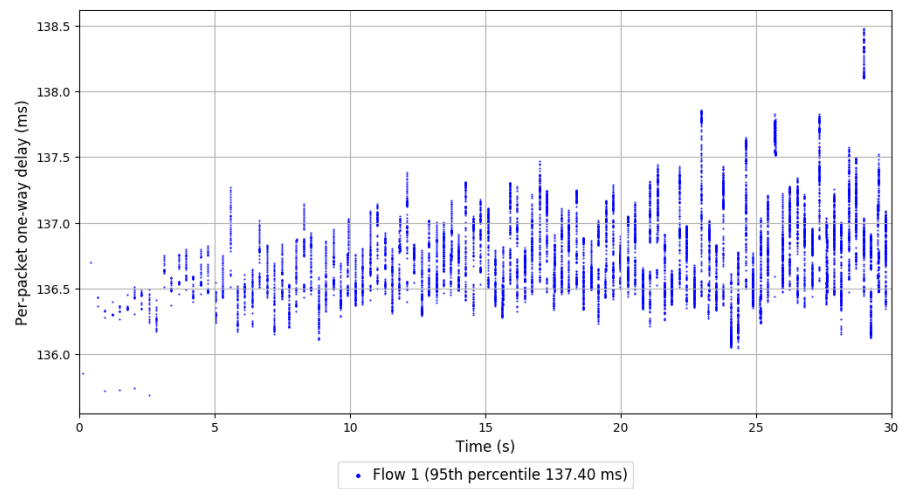
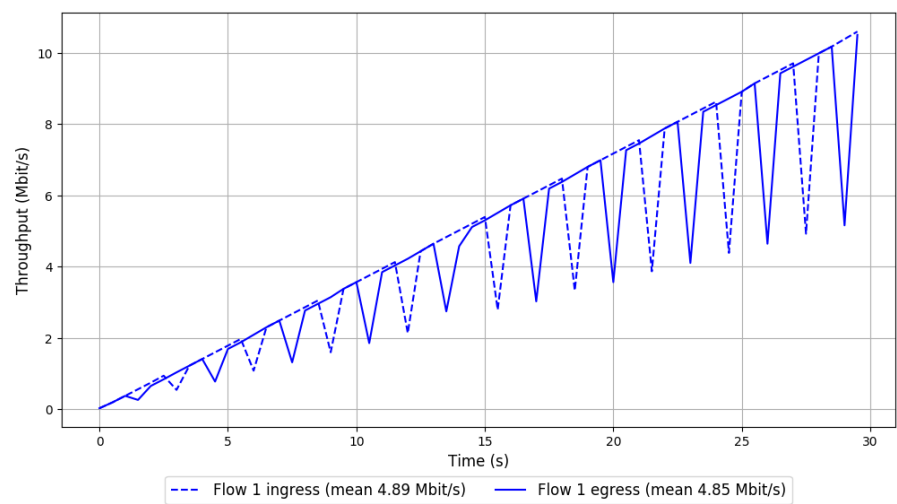
-- Flow 1:

Average throughput: 4.85 Mbit/s

95th percentile per-packet one-way delay: 137.399 ms

Loss rate: 1.82%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-03-20 23:53:00

End at: 2018-03-20 23:53:30

Below is generated by plot.py at 2018-03-21 02:54:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 134.830 ms

Loss rate: 0.90%

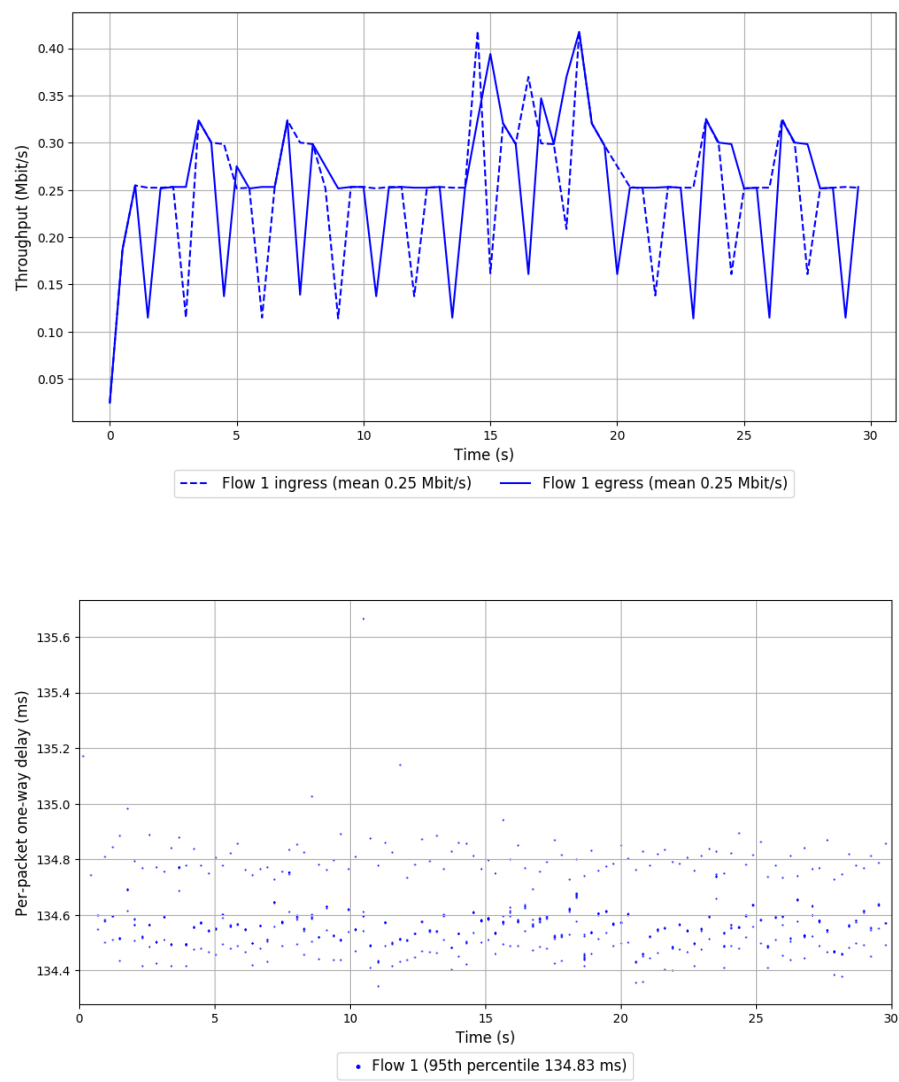
-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 134.830 ms

Loss rate: 0.90%

Run 10: Report of LEDBAT — Data Link

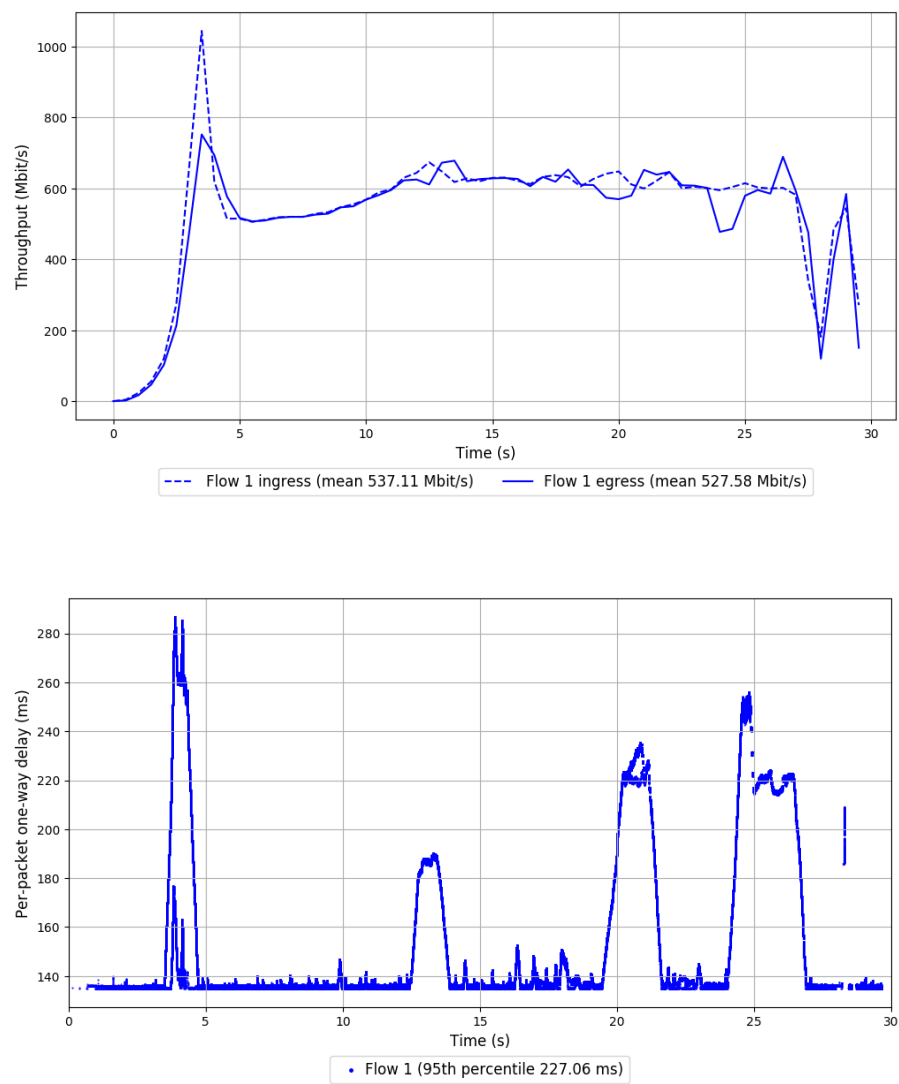


```
Run 1: Statistics of PCC

Start at: 2018-03-20 21:32:04
End at: 2018-03-20 21:32:34

# Below is generated by plot.py at 2018-03-21 03:02:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 527.58 Mbit/s
95th percentile per-packet one-way delay: 227.057 ms
Loss rate: 2.67%
-- Flow 1:
Average throughput: 527.58 Mbit/s
95th percentile per-packet one-way delay: 227.057 ms
Loss rate: 2.67%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-03-20 21:47:58

End at: 2018-03-20 21:48:28

Below is generated by plot.py at 2018-03-21 03:02:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 529.24 Mbit/s

95th percentile per-packet one-way delay: 226.515 ms

Loss rate: 2.39%

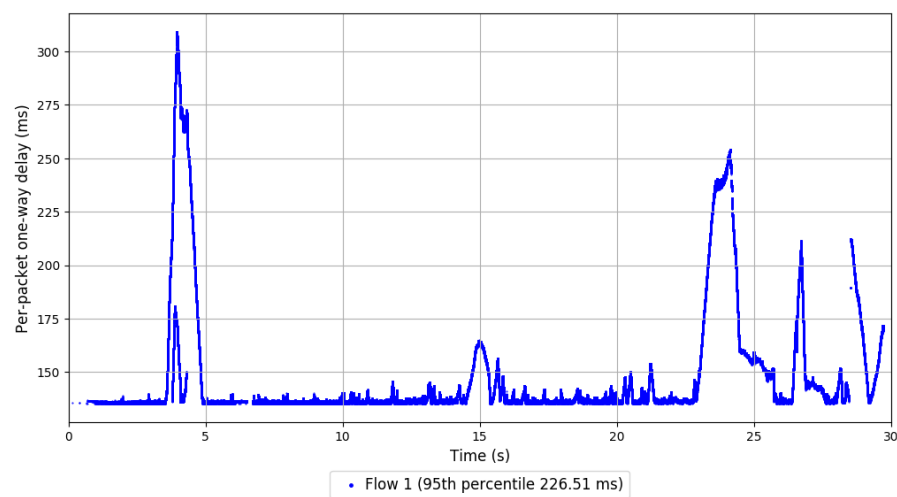
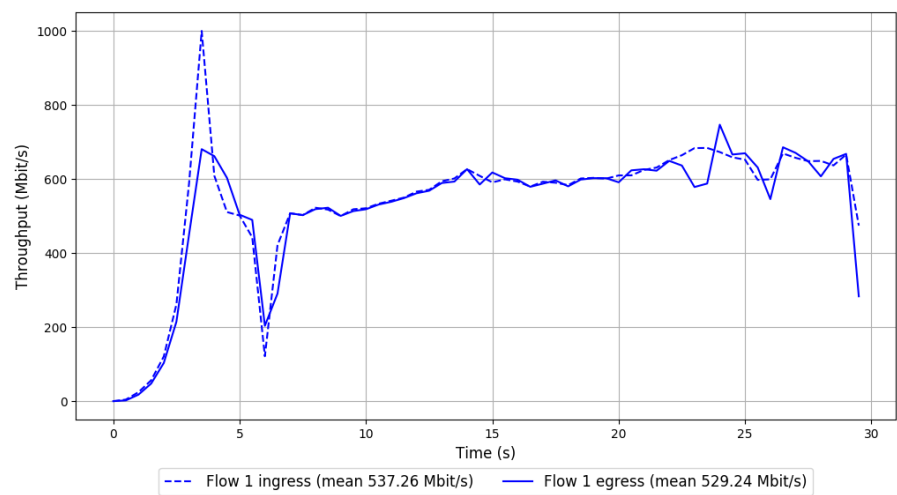
-- Flow 1:

Average throughput: 529.24 Mbit/s

95th percentile per-packet one-way delay: 226.515 ms

Loss rate: 2.39%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-03-20 22:03:31

End at: 2018-03-20 22:04:01

Below is generated by plot.py at 2018-03-21 03:02:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 533.97 Mbit/s

95th percentile per-packet one-way delay: 291.731 ms

Loss rate: 4.45%

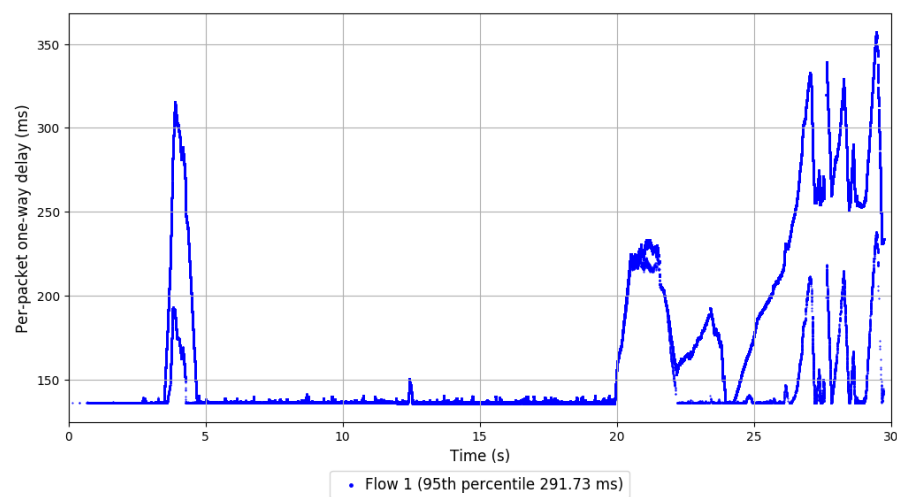
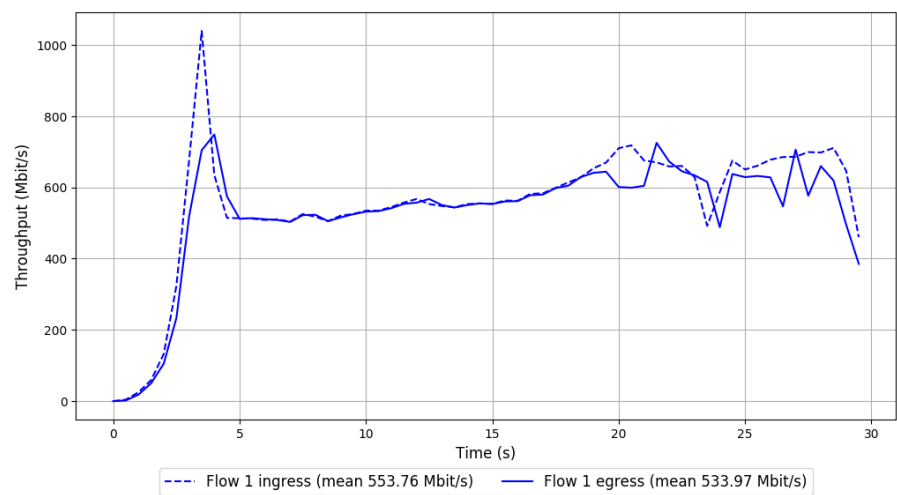
-- Flow 1:

Average throughput: 533.97 Mbit/s

95th percentile per-packet one-way delay: 291.731 ms

Loss rate: 4.45%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-03-20 22:19:45

End at: 2018-03-20 22:20:15

Below is generated by plot.py at 2018-03-21 03:02:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 529.42 Mbit/s

95th percentile per-packet one-way delay: 199.910 ms

Loss rate: 2.34%

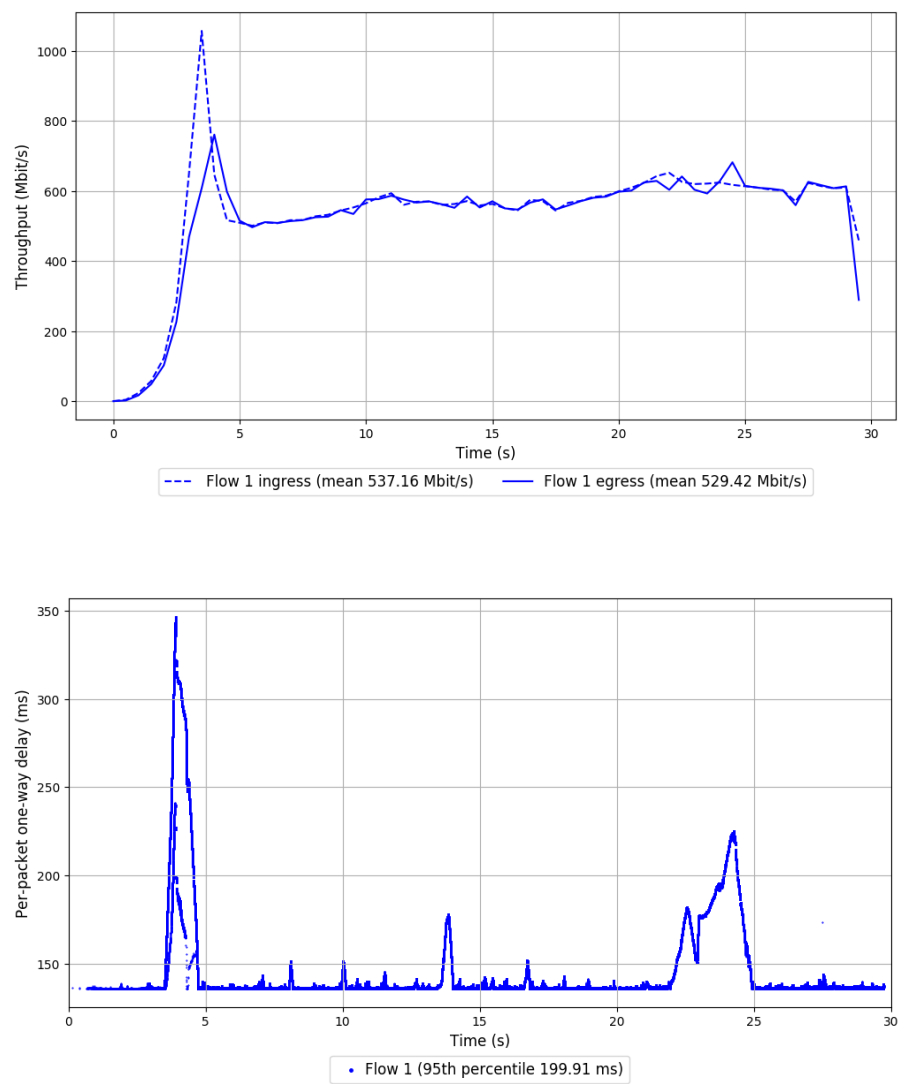
-- Flow 1:

Average throughput: 529.42 Mbit/s

95th percentile per-packet one-way delay: 199.910 ms

Loss rate: 2.34%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-03-20 22:35:39

End at: 2018-03-20 22:36:09

Below is generated by plot.py at 2018-03-21 03:03:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 514.50 Mbit/s

95th percentile per-packet one-way delay: 219.567 ms

Loss rate: 2.91%

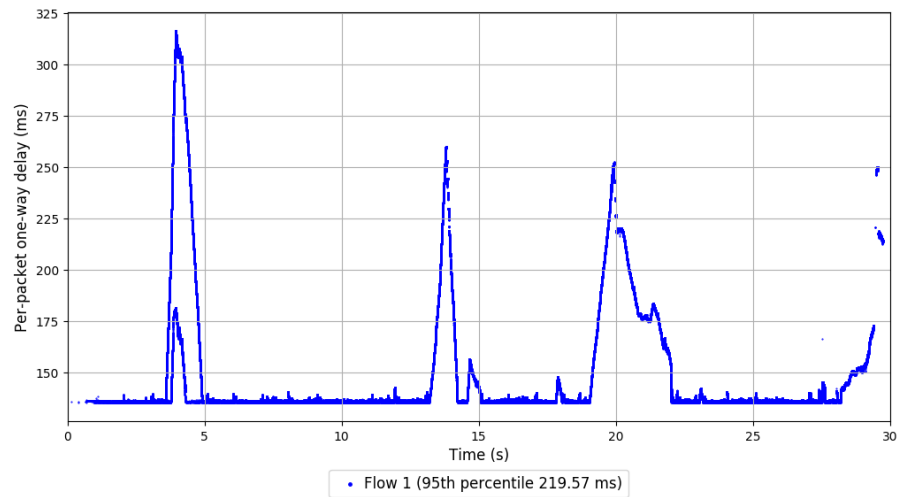
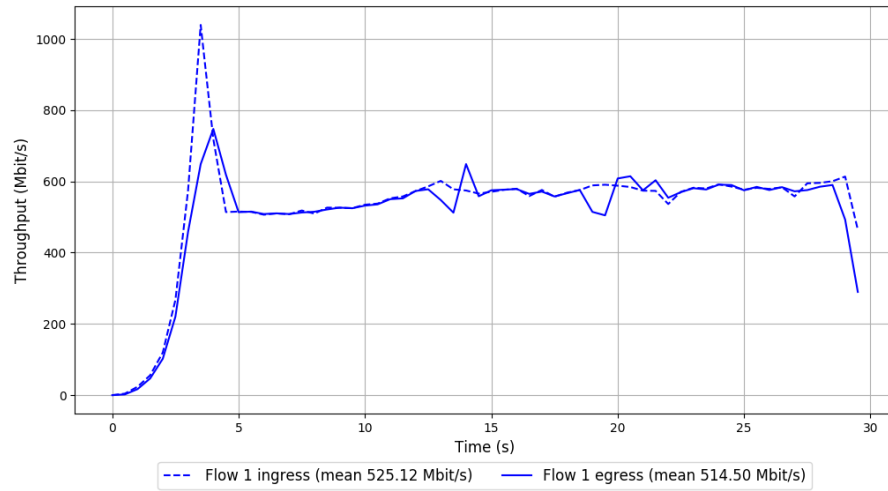
-- Flow 1:

Average throughput: 514.50 Mbit/s

95th percentile per-packet one-way delay: 219.567 ms

Loss rate: 2.91%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-03-20 22:51:40

End at: 2018-03-20 22:52:10

Below is generated by plot.py at 2018-03-21 03:03:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 509.24 Mbit/s

95th percentile per-packet one-way delay: 190.791 ms

Loss rate: 2.03%

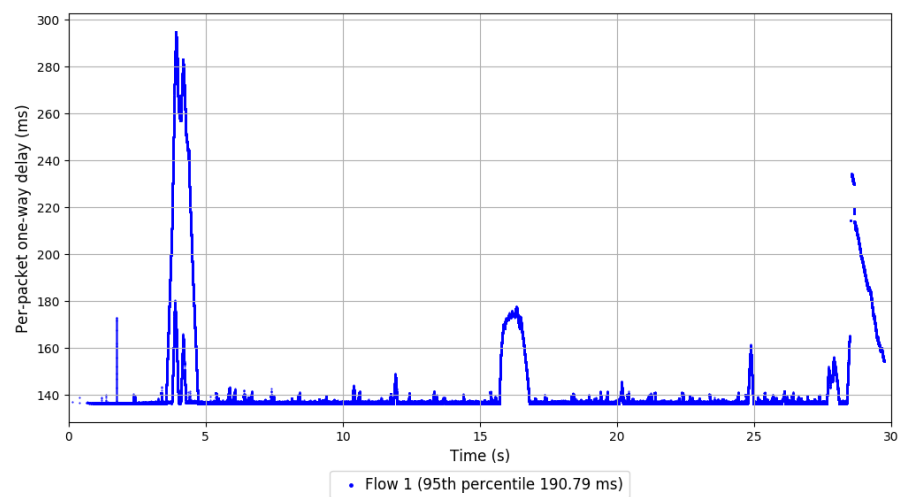
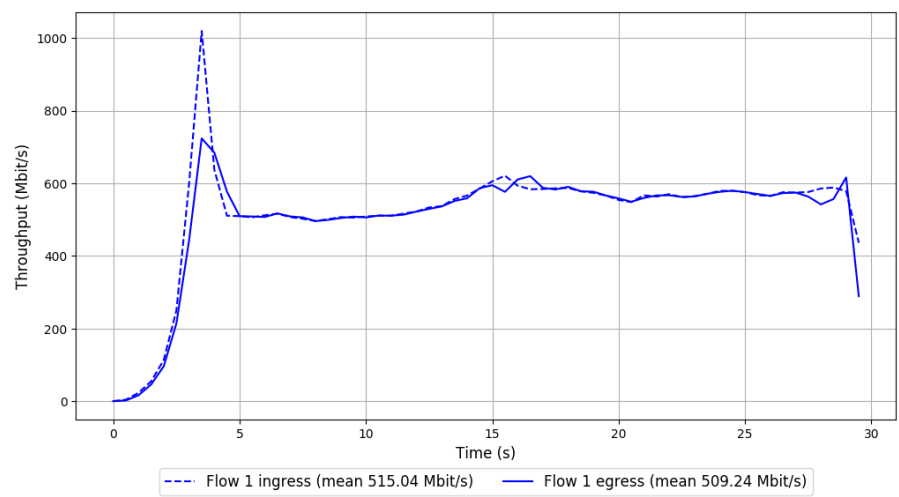
-- Flow 1:

Average throughput: 509.24 Mbit/s

95th percentile per-packet one-way delay: 190.791 ms

Loss rate: 2.03%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-03-20 23:07:14

End at: 2018-03-20 23:07:44

Below is generated by plot.py at 2018-03-21 03:04:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 535.60 Mbit/s

95th percentile per-packet one-way delay: 215.793 ms

Loss rate: 2.08%

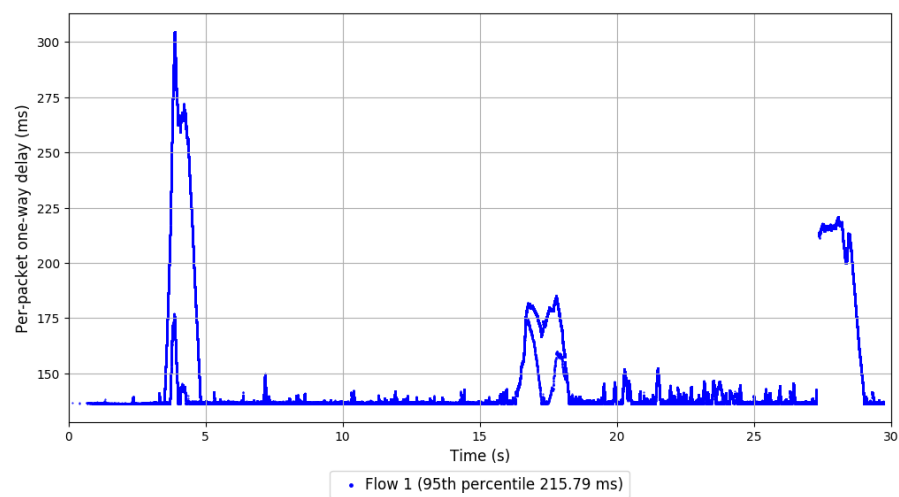
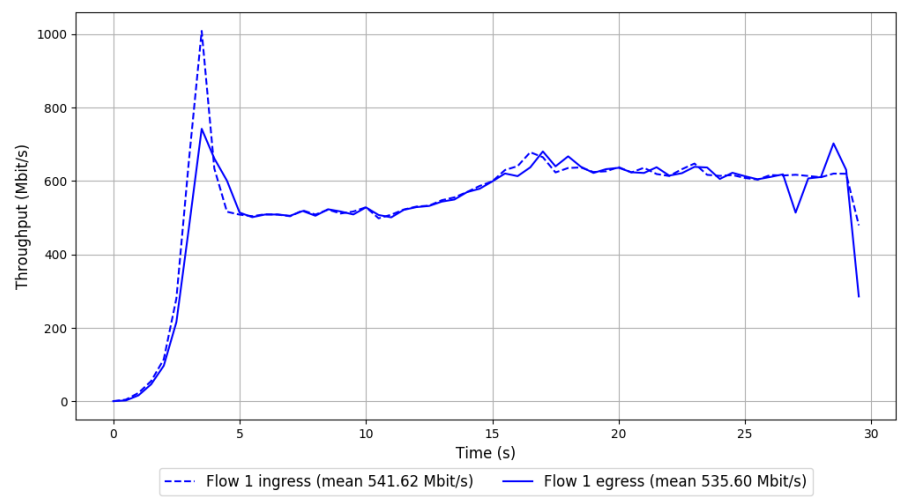
-- Flow 1:

Average throughput: 535.60 Mbit/s

95th percentile per-packet one-way delay: 215.793 ms

Loss rate: 2.08%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-03-20 23:23:06

End at: 2018-03-20 23:23:36

Below is generated by plot.py at 2018-03-21 03:04:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 514.81 Mbit/s

95th percentile per-packet one-way delay: 197.522 ms

Loss rate: 2.30%

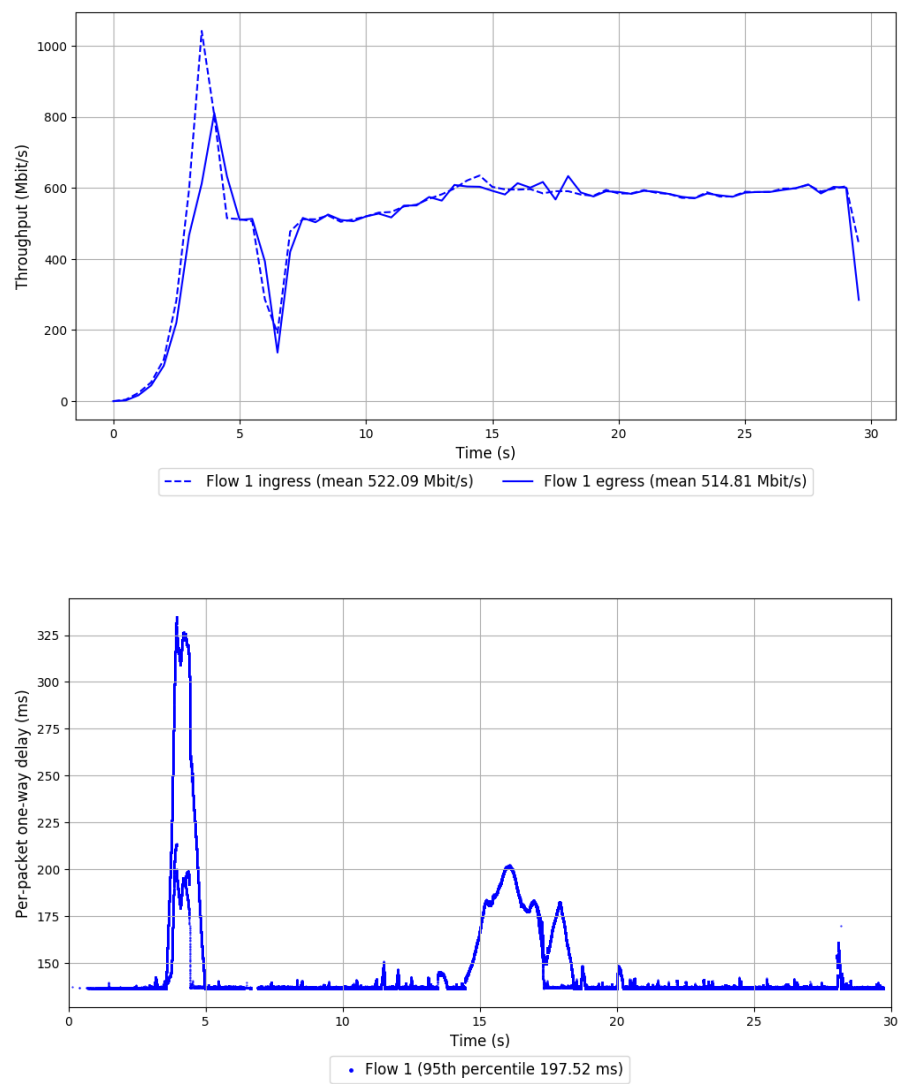
-- Flow 1:

Average throughput: 514.81 Mbit/s

95th percentile per-packet one-way delay: 197.522 ms

Loss rate: 2.30%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-03-20 23:39:00

End at: 2018-03-20 23:39:30

Below is generated by plot.py at 2018-03-21 03:12:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 530.87 Mbit/s

95th percentile per-packet one-way delay: 220.357 ms

Loss rate: 3.08%

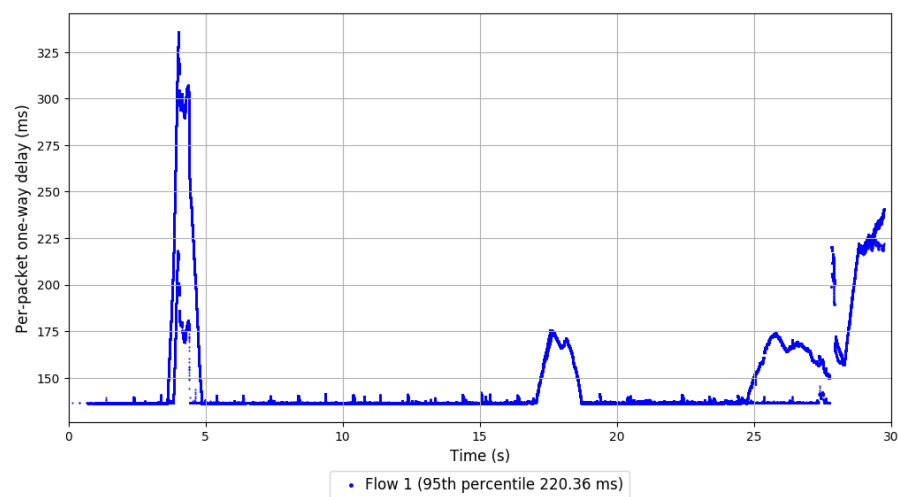
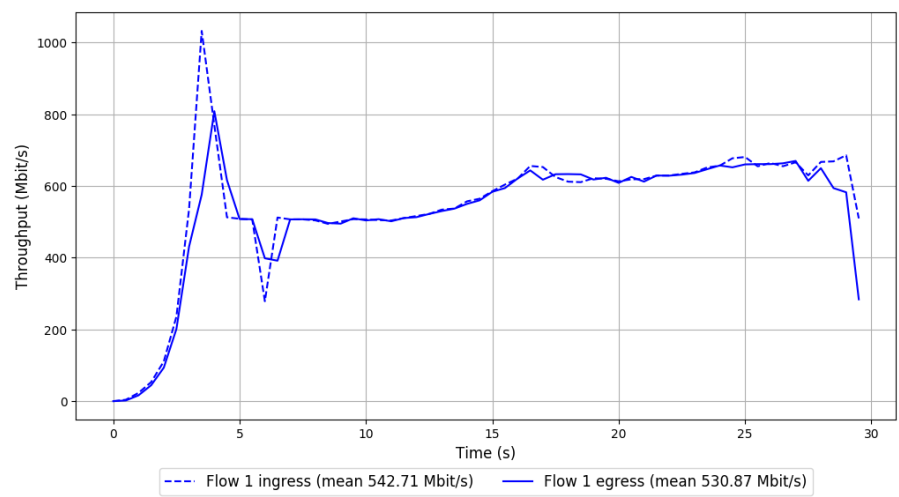
-- Flow 1:

Average throughput: 530.87 Mbit/s

95th percentile per-packet one-way delay: 220.357 ms

Loss rate: 3.08%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-03-20 23:54:57

End at: 2018-03-20 23:55:27

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 541.82 Mbit/s

95th percentile per-packet one-way delay: 207.285 ms

Loss rate: 2.15%

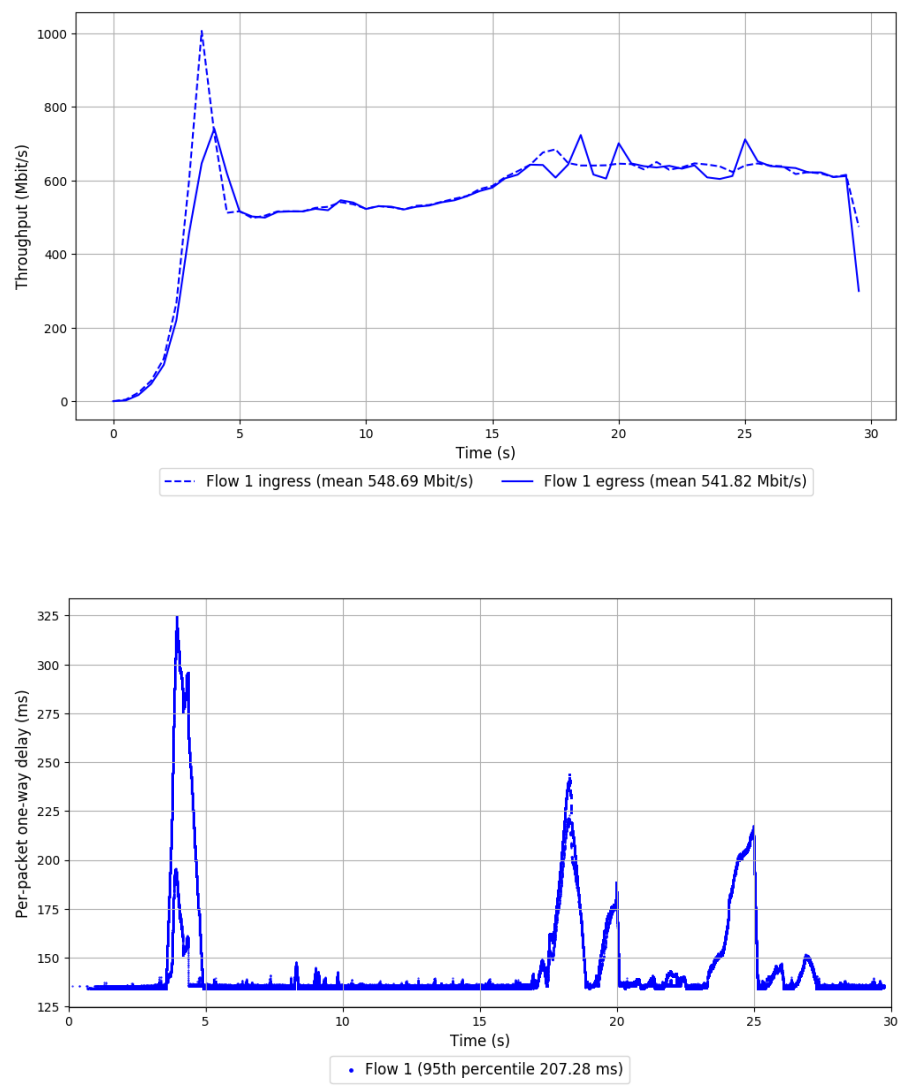
-- Flow 1:

Average throughput: 541.82 Mbit/s

95th percentile per-packet one-way delay: 207.285 ms

Loss rate: 2.15%

Run 10: Report of PCC — Data Link

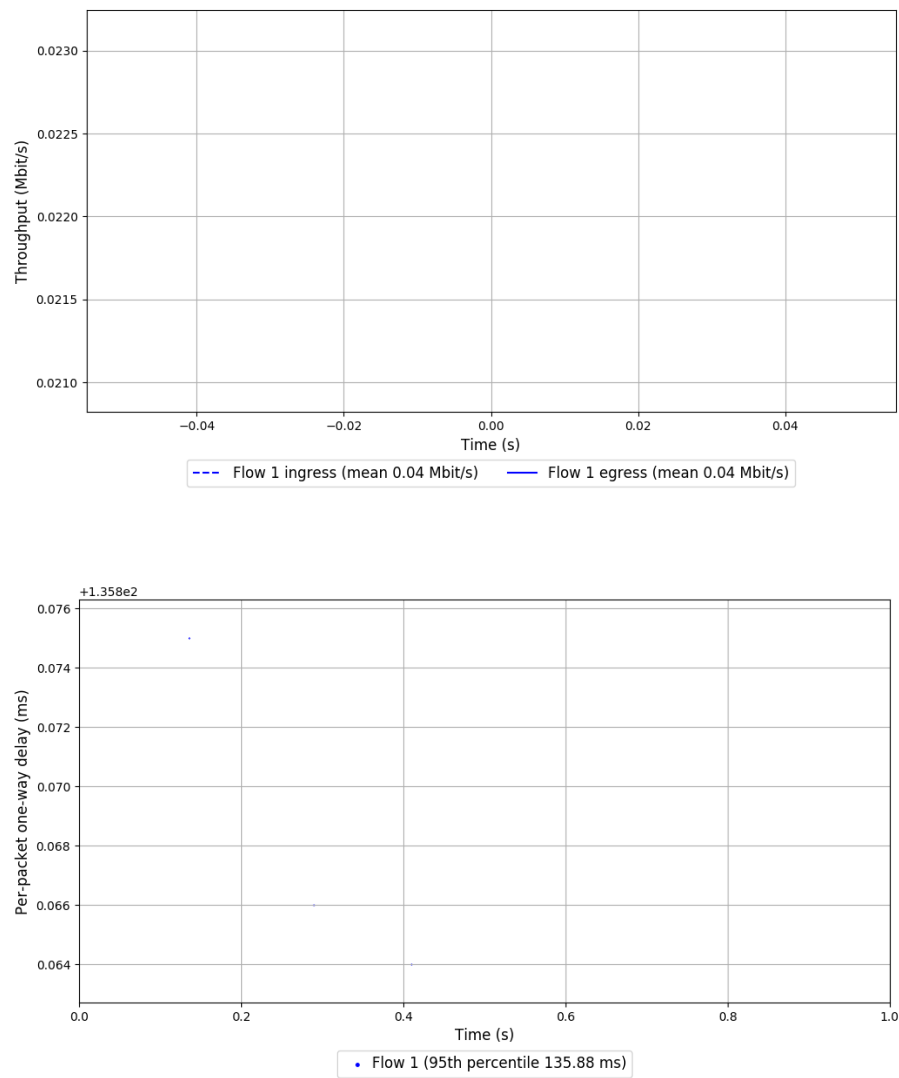


Run 1: Statistics of QUIC Cubic

Start at: 2018-03-20 21:36:41

End at: 2018-03-20 21:37:11

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-03-20 21:52:16

End at: 2018-03-20 21:52:46

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.51 Mbit/s

95th percentile per-packet one-way delay: 136.179 ms

Loss rate: 1.14%

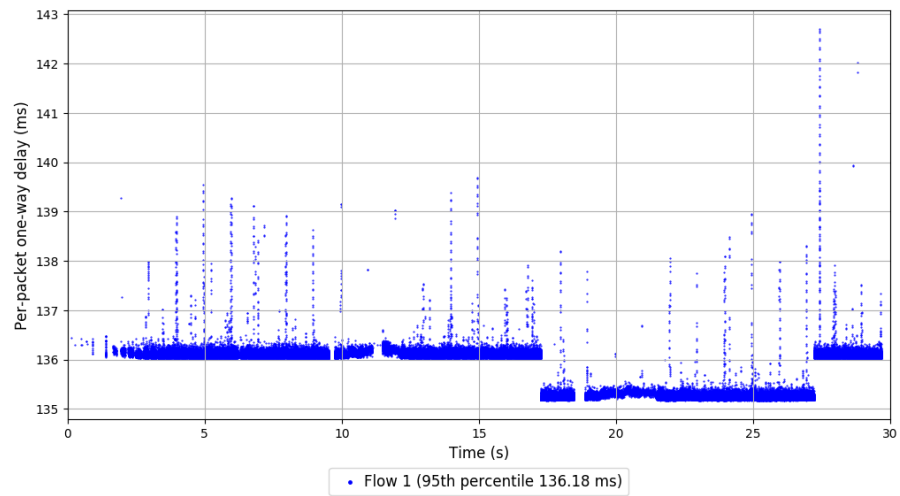
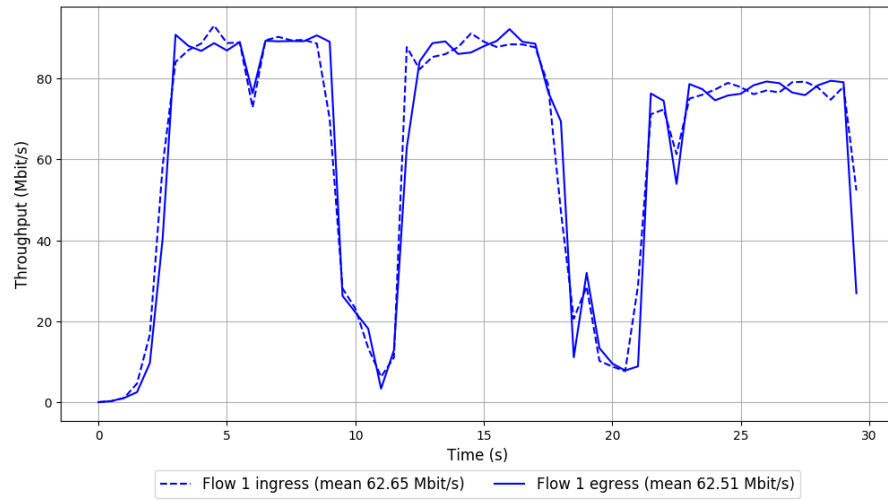
-- Flow 1:

Average throughput: 62.51 Mbit/s

95th percentile per-packet one-way delay: 136.179 ms

Loss rate: 1.14%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-03-20 22:08:21

End at: 2018-03-20 22:08:51

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.62 Mbit/s

95th percentile per-packet one-way delay: 135.719 ms

Loss rate: 1.17%

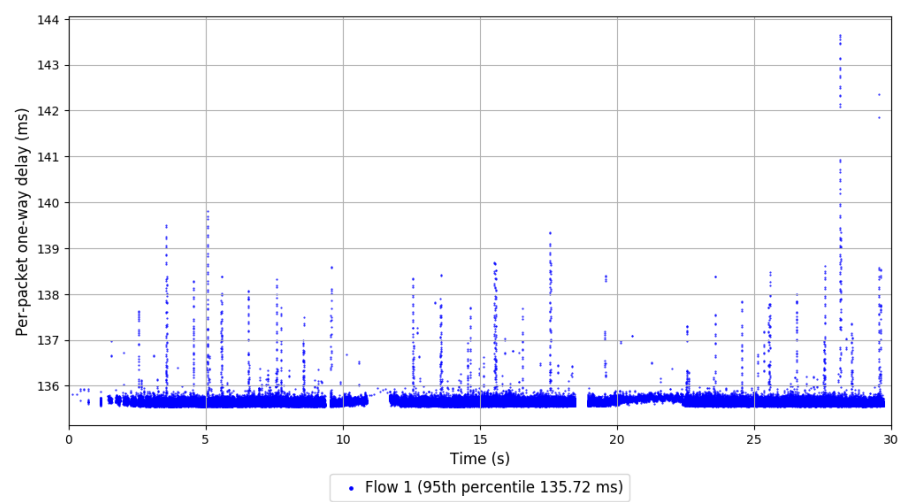
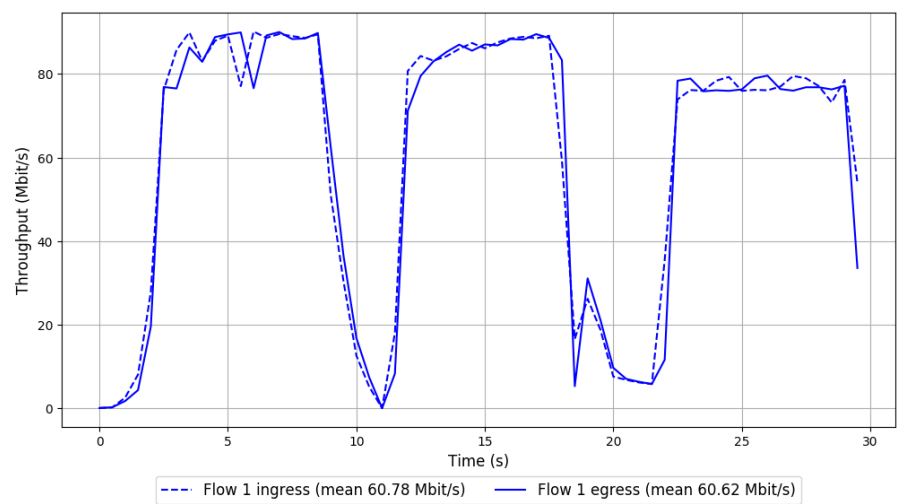
-- Flow 1:

Average throughput: 60.62 Mbit/s

95th percentile per-packet one-way delay: 135.719 ms

Loss rate: 1.17%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-03-20 22:24:27

End at: 2018-03-20 22:24:57

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.45 Mbit/s

95th percentile per-packet one-way delay: 135.730 ms

Loss rate: 1.25%

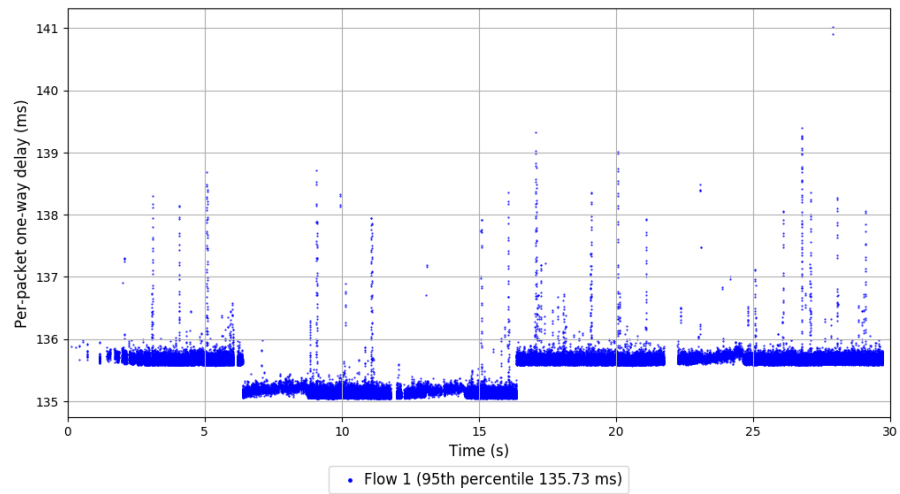
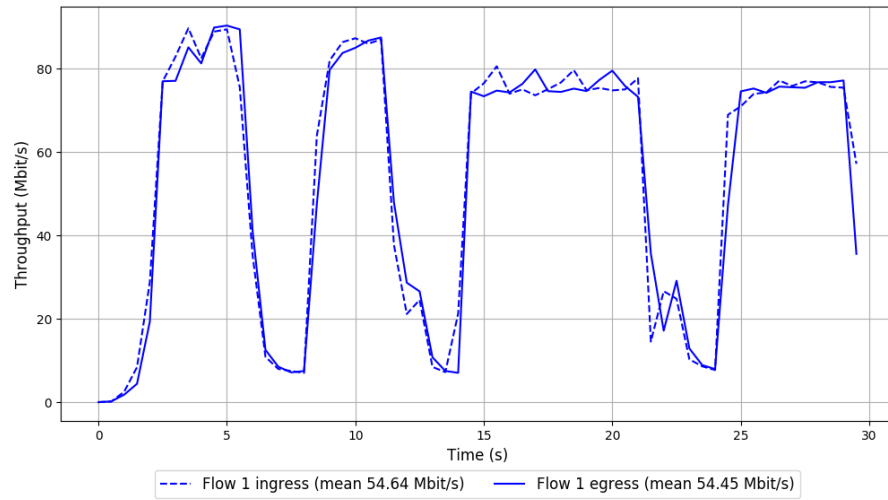
-- Flow 1:

Average throughput: 54.45 Mbit/s

95th percentile per-packet one-way delay: 135.730 ms

Loss rate: 1.25%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-03-20 22:40:13

End at: 2018-03-20 22:40:43

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.81 Mbit/s

95th percentile per-packet one-way delay: 135.065 ms

Loss rate: 1.16%

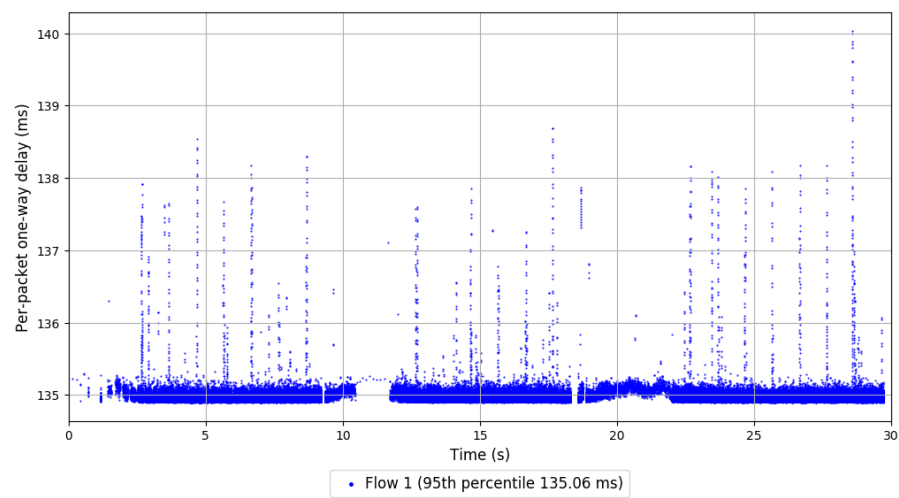
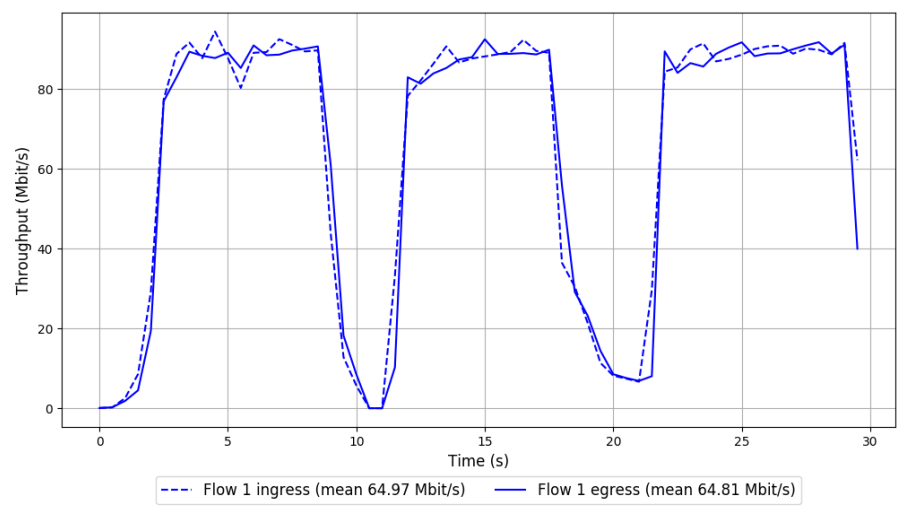
-- Flow 1:

Average throughput: 64.81 Mbit/s

95th percentile per-packet one-way delay: 135.065 ms

Loss rate: 1.16%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-03-20 22:56:07

End at: 2018-03-20 22:56:37

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.19 Mbit/s

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

Loss rate: 1.34%

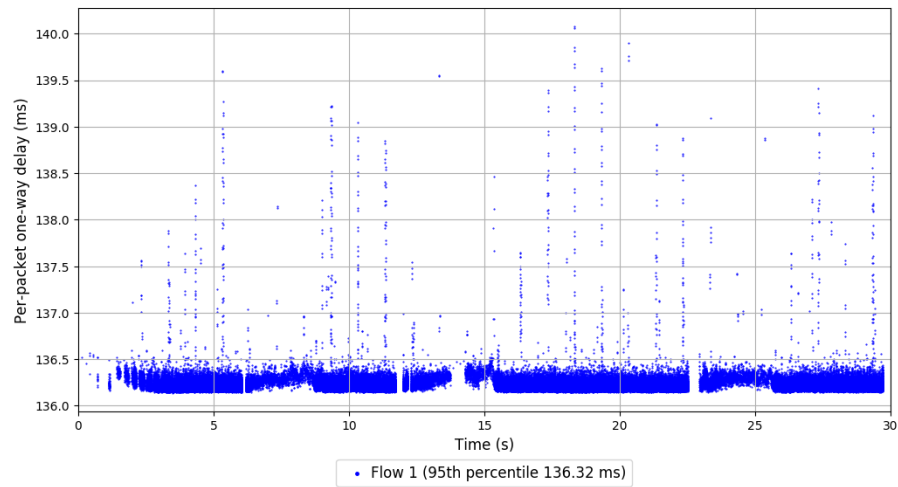
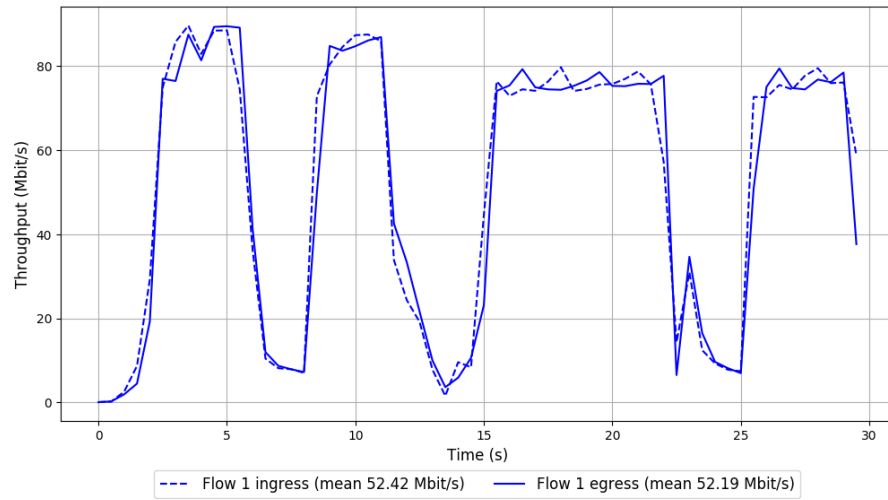
-- Flow 1:

Average throughput: 52.19 Mbit/s

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

Loss rate: 1.34%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-03-20 23:11:58

End at: 2018-03-20 23:12:28

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.91 Mbit/s

95th percentile per-packet one-way delay: 136.422 ms

Loss rate: 1.31%

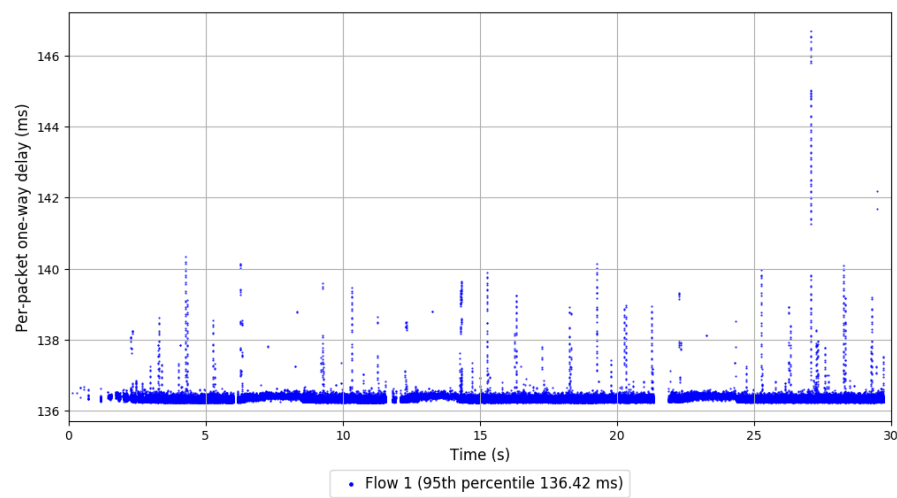
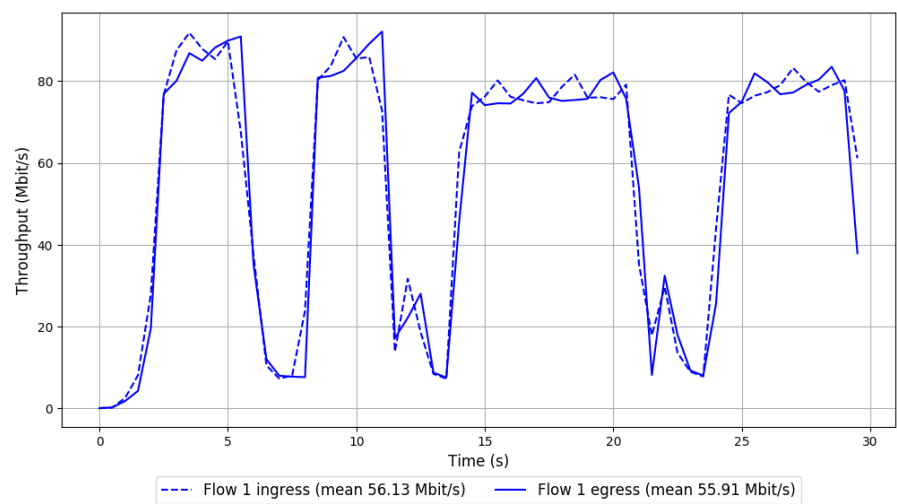
-- Flow 1:

Average throughput: 55.91 Mbit/s

95th percentile per-packet one-way delay: 136.422 ms

Loss rate: 1.31%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-03-20 23:27:38

End at: 2018-03-20 23:28:08

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.35 Mbit/s

95th percentile per-packet one-way delay: 136.328 ms

Loss rate: 1.27%

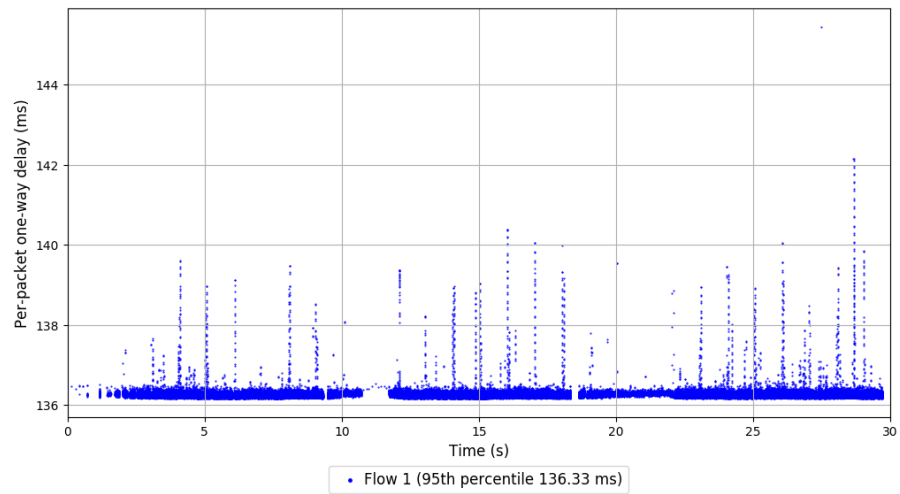
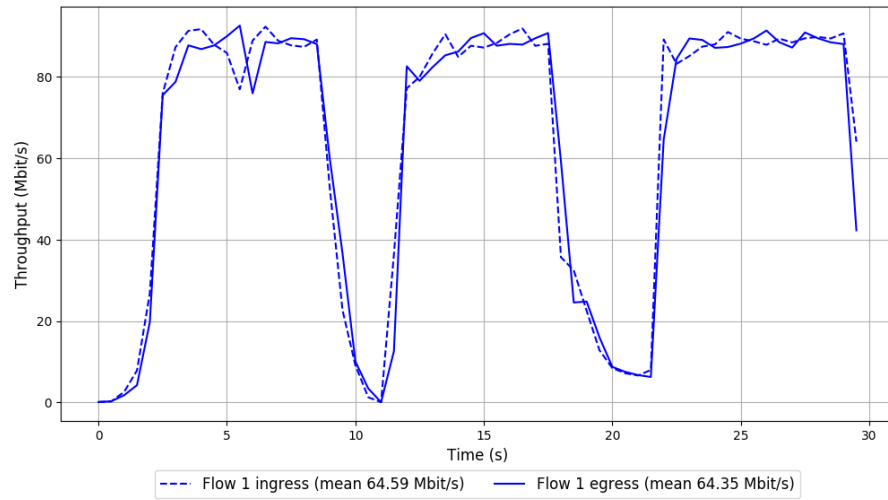
-- Flow 1:

Average throughput: 64.35 Mbit/s

95th percentile per-packet one-way delay: 136.328 ms

Loss rate: 1.27%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-03-20 23:43:42

End at: 2018-03-20 23:44:12

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.29 Mbit/s

95th percentile per-packet one-way delay: 136.058 ms

Loss rate: 1.27%

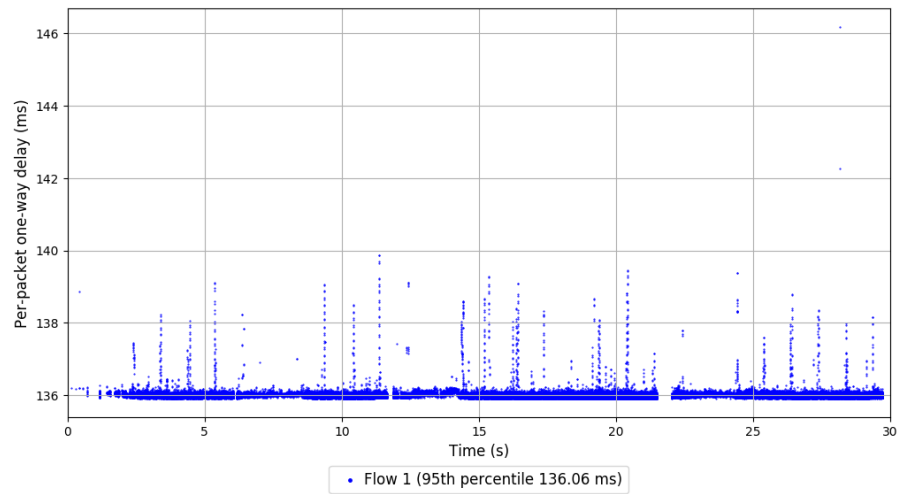
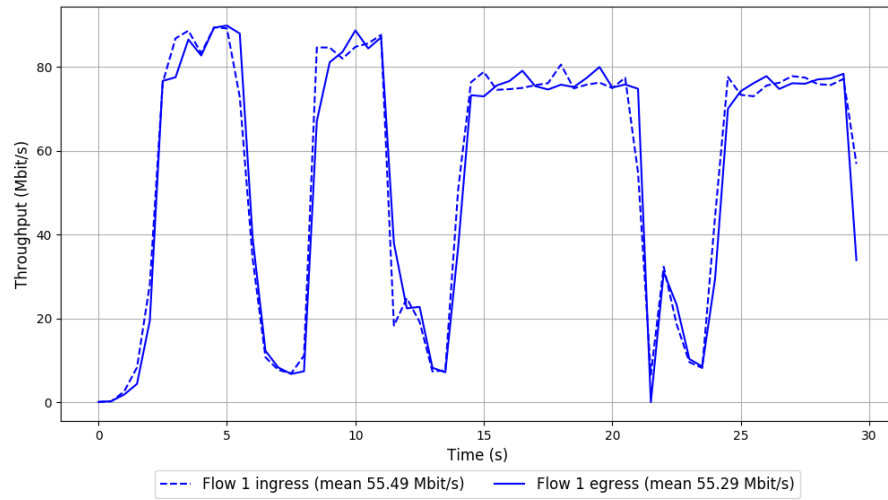
-- Flow 1:

Average throughput: 55.29 Mbit/s

95th percentile per-packet one-way delay: 136.058 ms

Loss rate: 1.27%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-03-20 23:59:34

End at: 2018-03-21 00:00:04

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.68 Mbit/s

95th percentile per-packet one-way delay: 135.349 ms

Loss rate: 1.33%

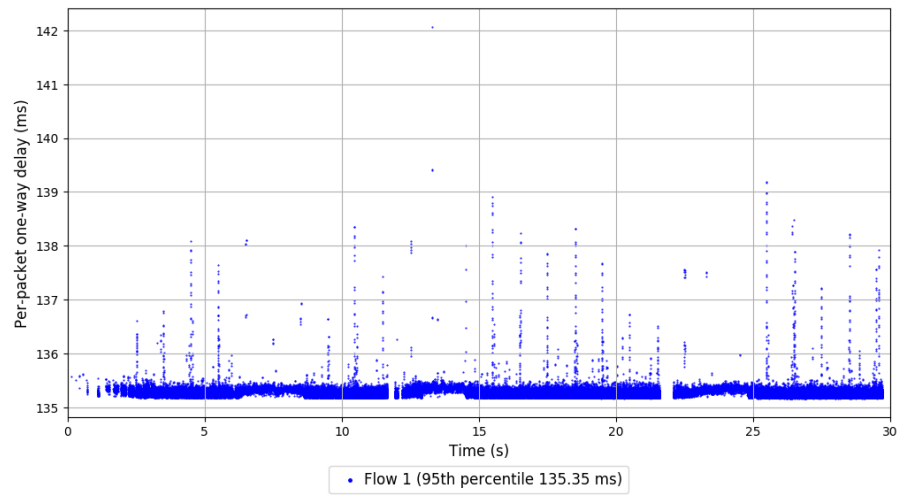
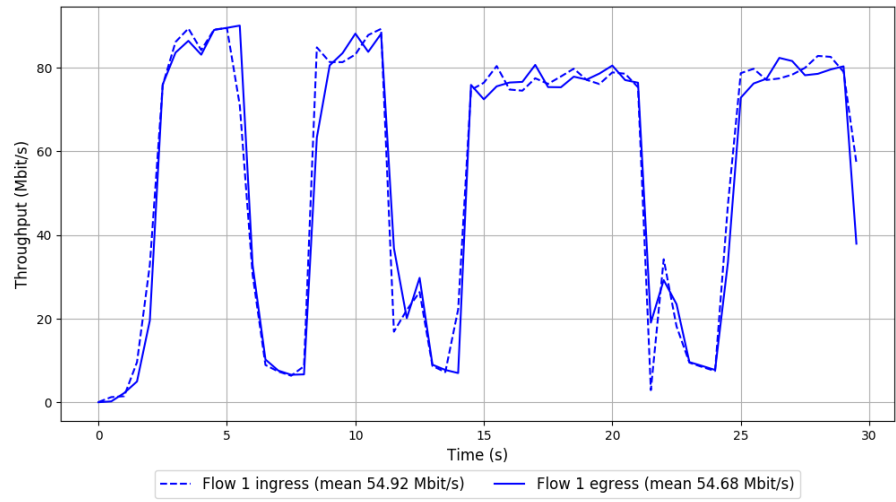
-- Flow 1:

Average throughput: 54.68 Mbit/s

95th percentile per-packet one-way delay: 135.349 ms

Loss rate: 1.33%

Run 10: Report of QUIC Cubic — Data Link

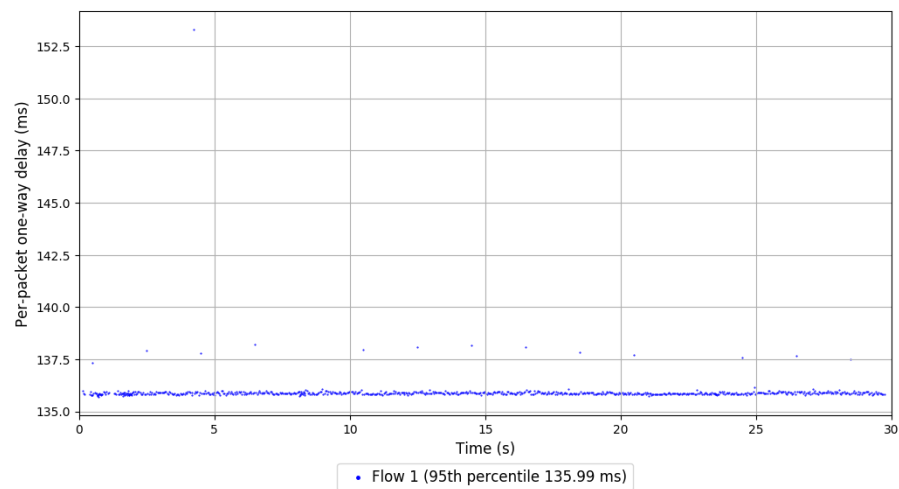
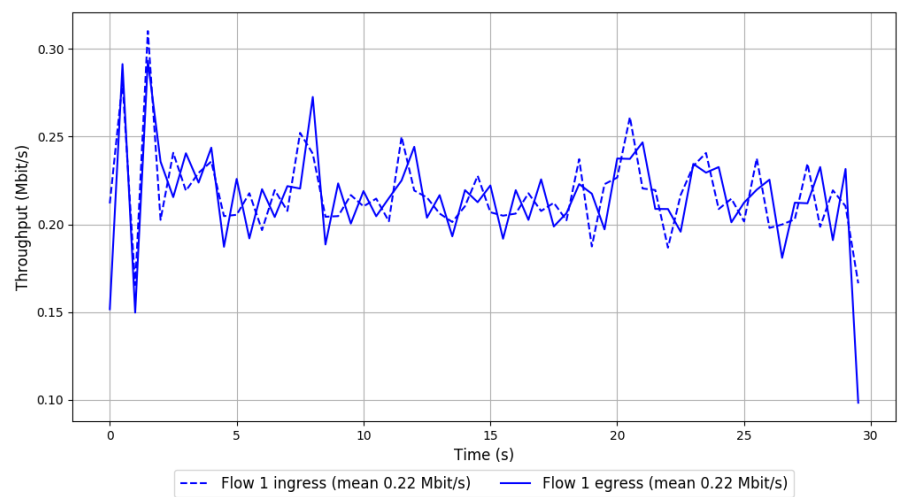


```
Run 1: Statistics of SCReAM

Start at: 2018-03-20 21:38:28
End at: 2018-03-20 21:38:58

# Below is generated by plot.py at 2018-03-21 03:12:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.987 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.987 ms
Loss rate: 0.90%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-03-20 21:54:05

End at: 2018-03-20 21:54:35

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.145 ms

Loss rate: 0.89%

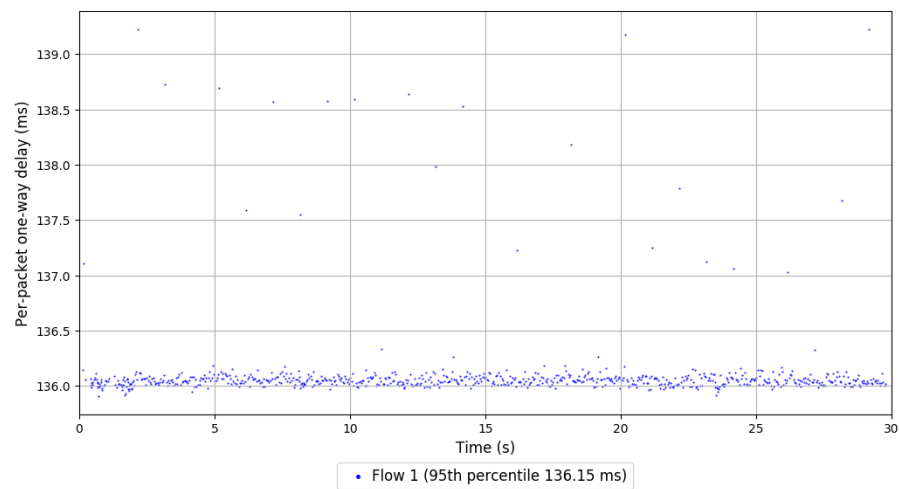
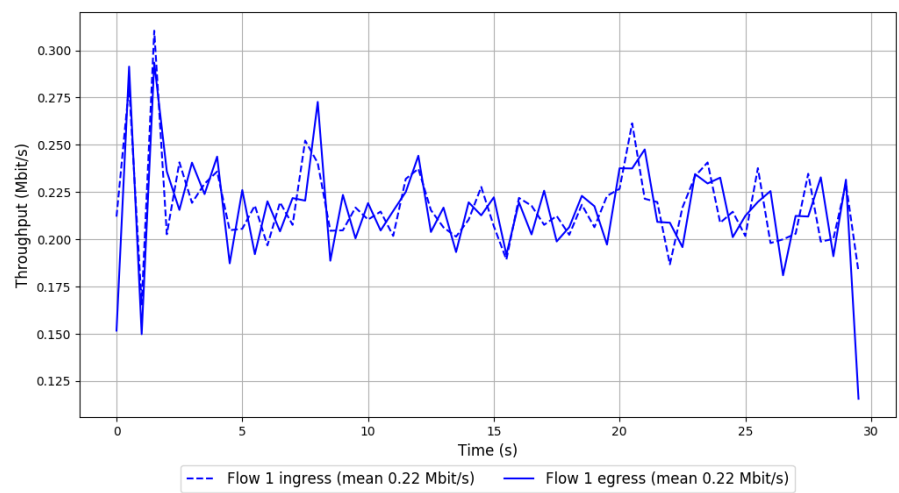
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.145 ms

Loss rate: 0.89%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-03-20 22:10:11

End at: 2018-03-20 22:10:41

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.624 ms

Loss rate: 0.89%

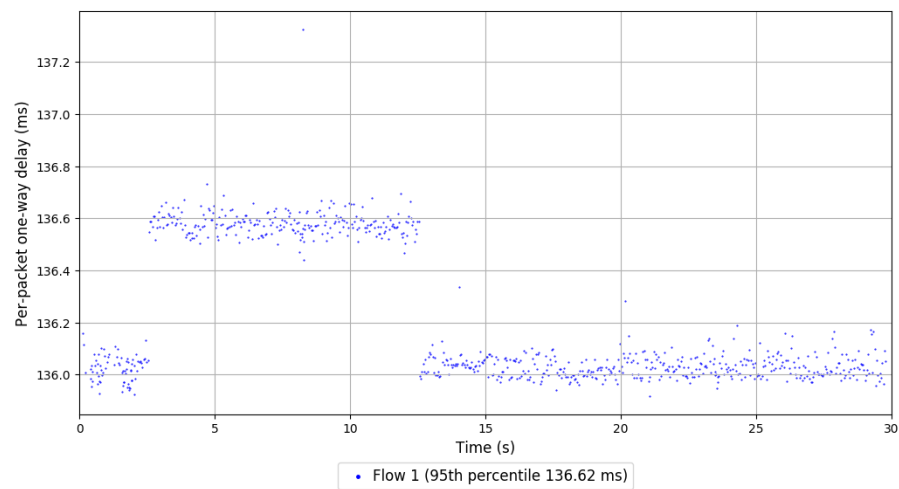
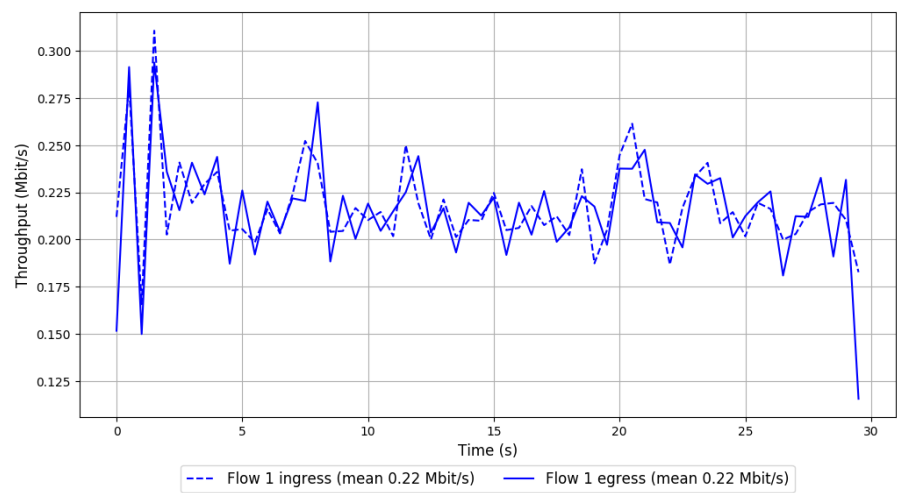
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.624 ms

Loss rate: 0.89%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-03-20 22:26:16

End at: 2018-03-20 22:26:46

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 134.943 ms

Loss rate: 0.89%

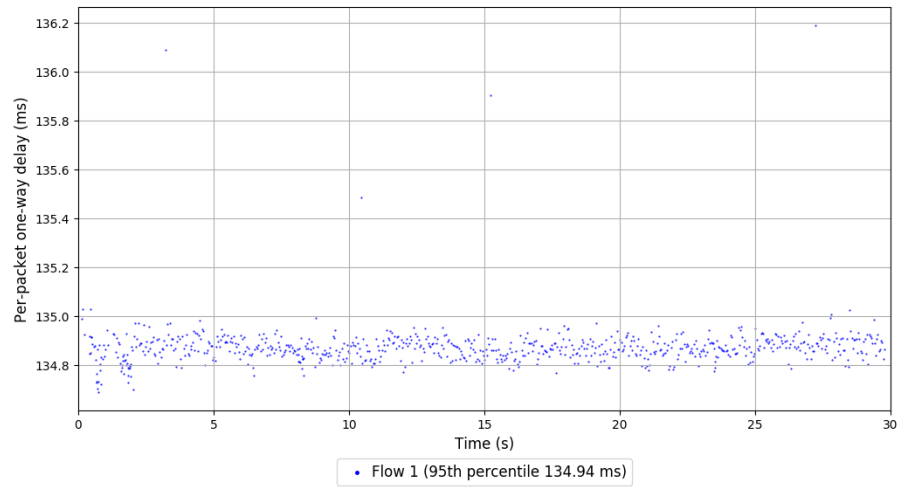
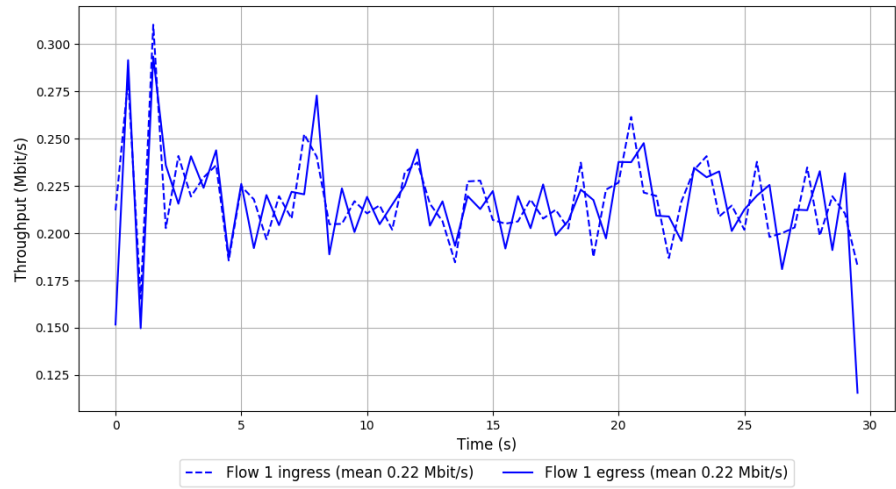
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 134.943 ms

Loss rate: 0.89%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-03-20 22:42:06

End at: 2018-03-20 22:42:36

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.134 ms

Loss rate: 0.89%

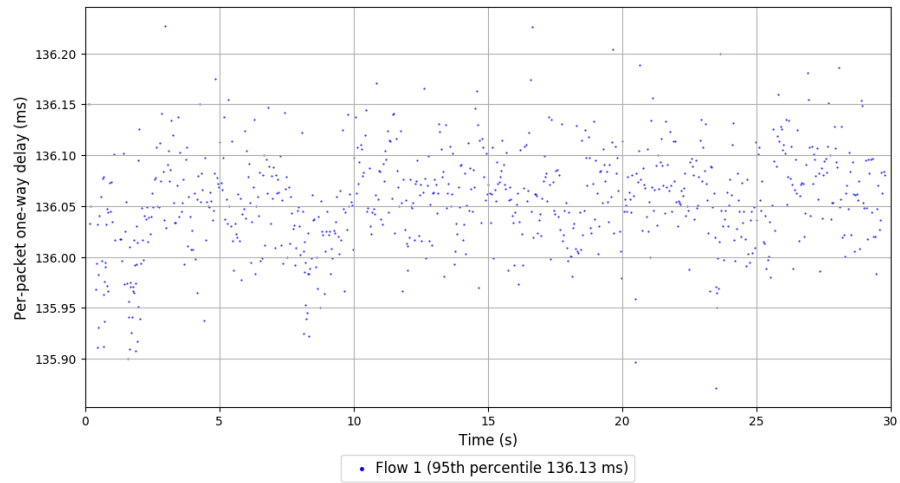
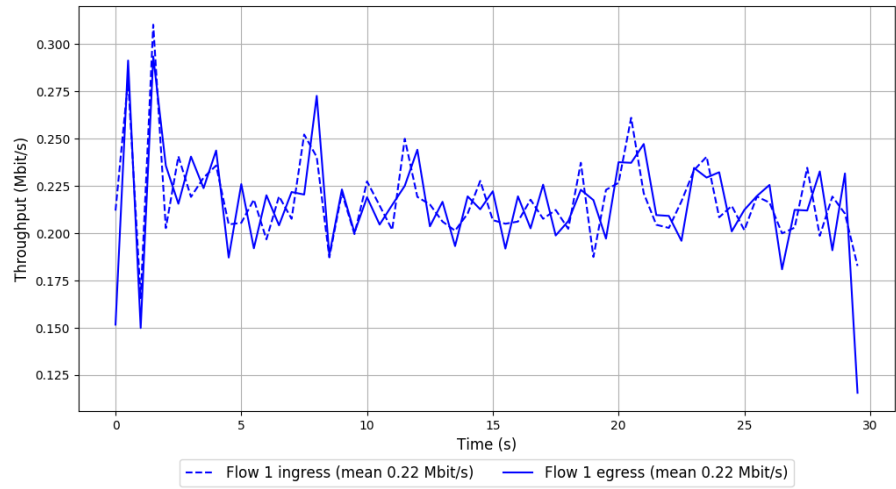
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.134 ms

Loss rate: 0.89%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-03-20 22:57:54

End at: 2018-03-20 22:58:24

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.105 ms

Loss rate: 0.89%

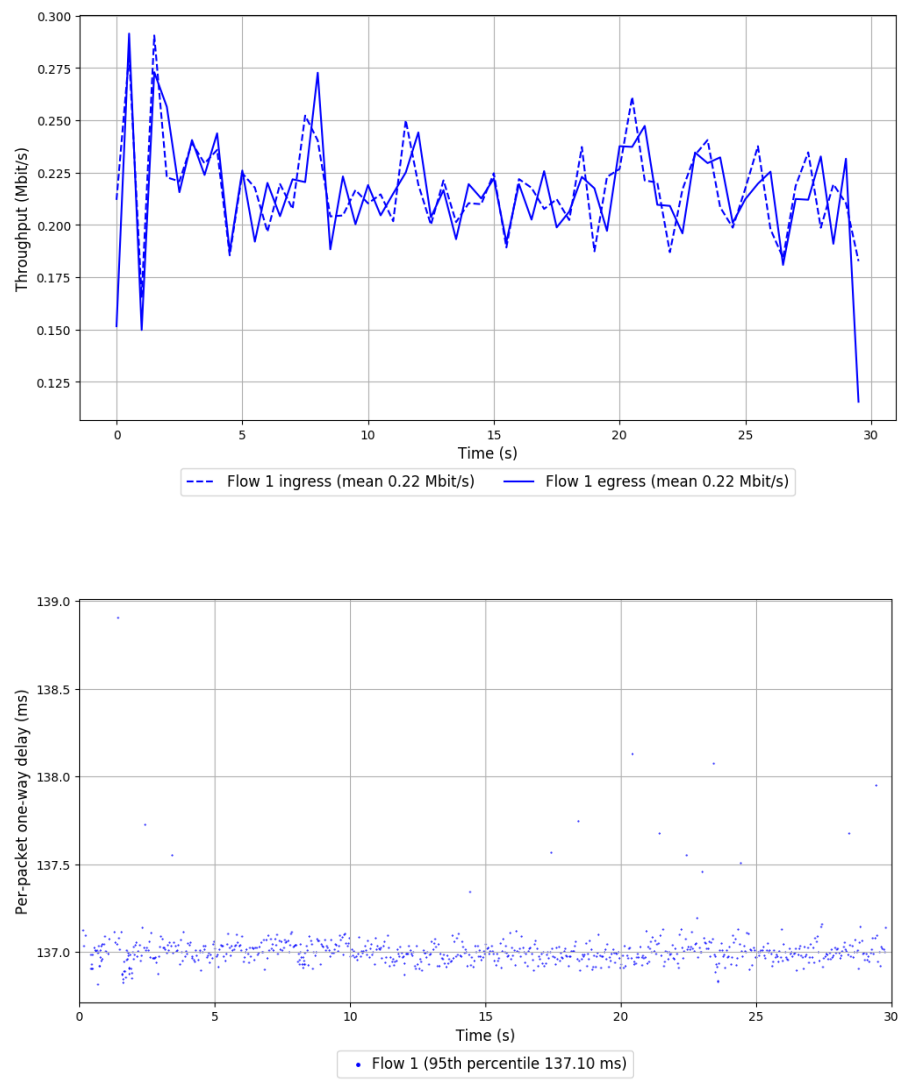
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.105 ms

Loss rate: 0.89%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-03-20 23:13:49

End at: 2018-03-20 23:14:19

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.052 ms

Loss rate: 0.89%

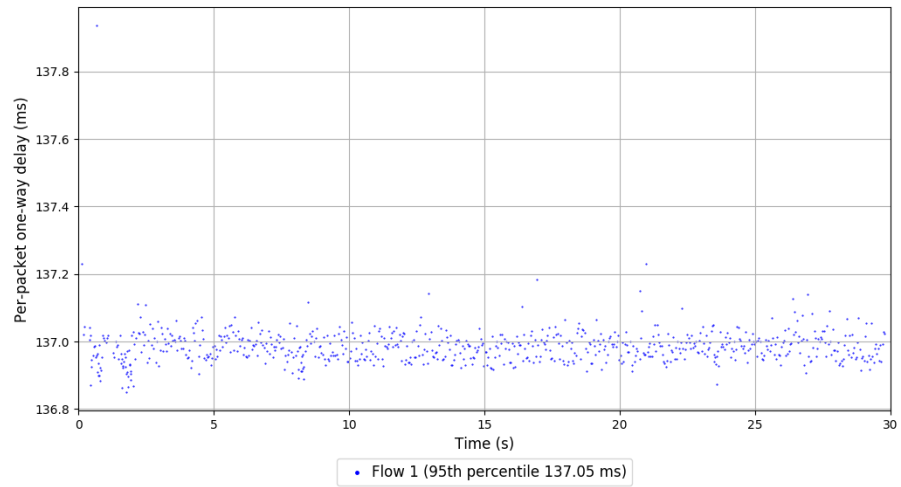
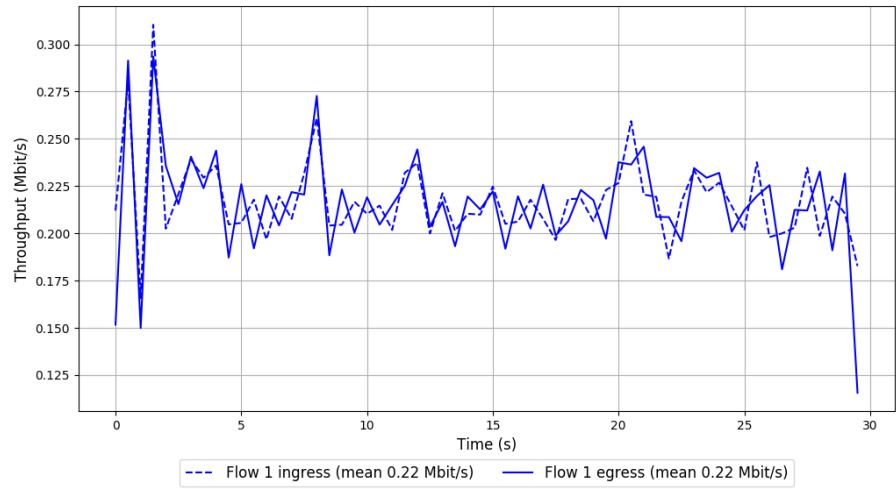
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.052 ms

Loss rate: 0.89%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-03-20 23:29:32

End at: 2018-03-20 23:30:02

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.625 ms

Loss rate: 0.89%

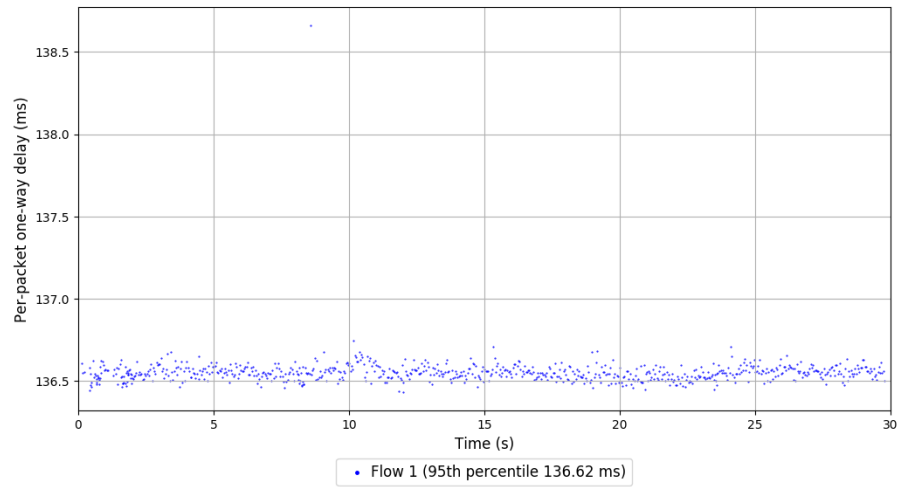
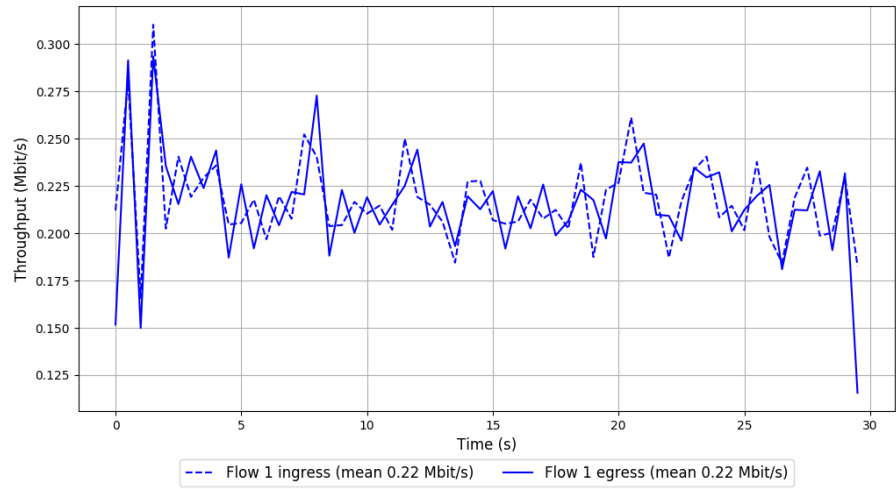
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.625 ms

Loss rate: 0.89%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-03-20 23:45:30

End at: 2018-03-20 23:46:00

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.622 ms

Loss rate: 0.89%

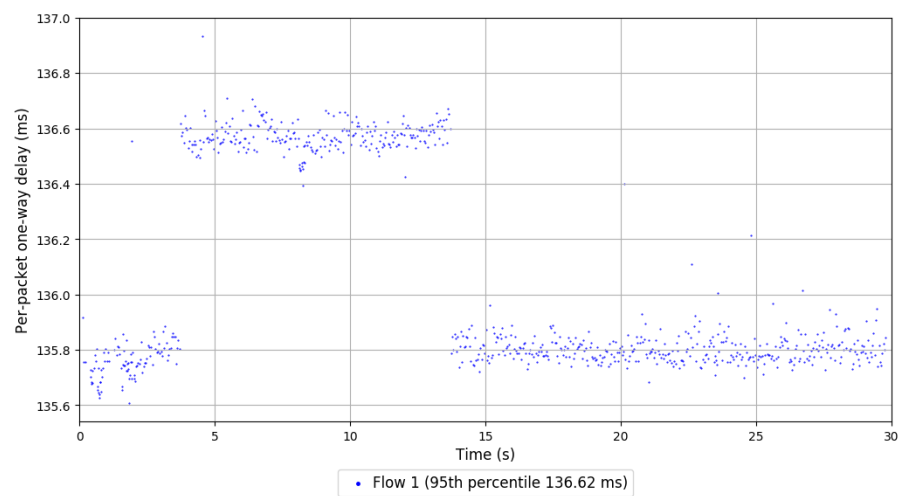
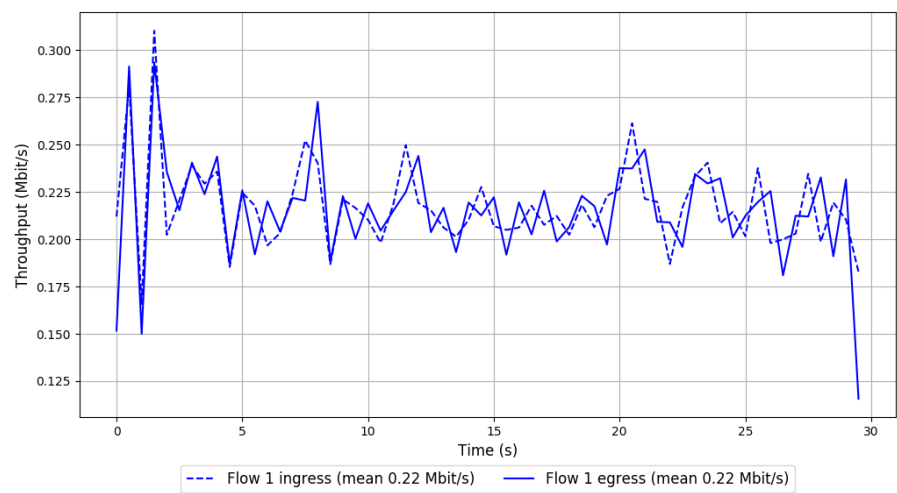
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.622 ms

Loss rate: 0.89%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-03-21 00:01:25

End at: 2018-03-21 00:01:55

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.520 ms

Loss rate: 0.89%

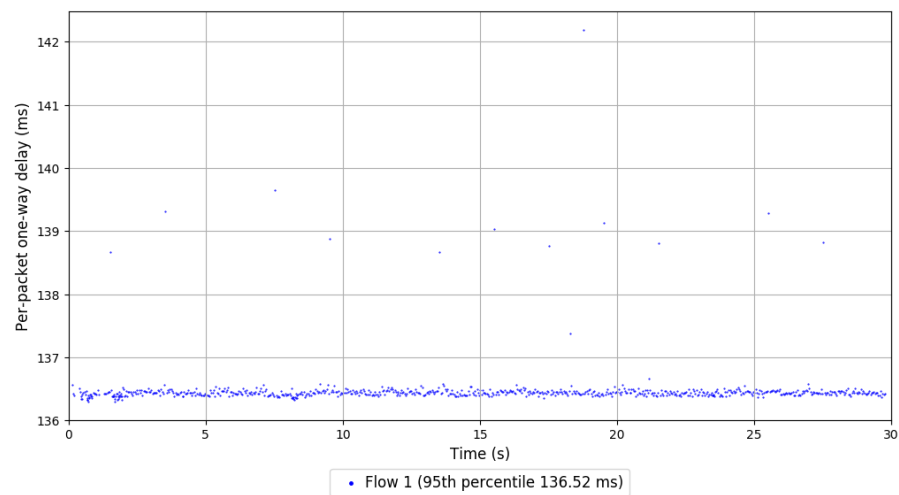
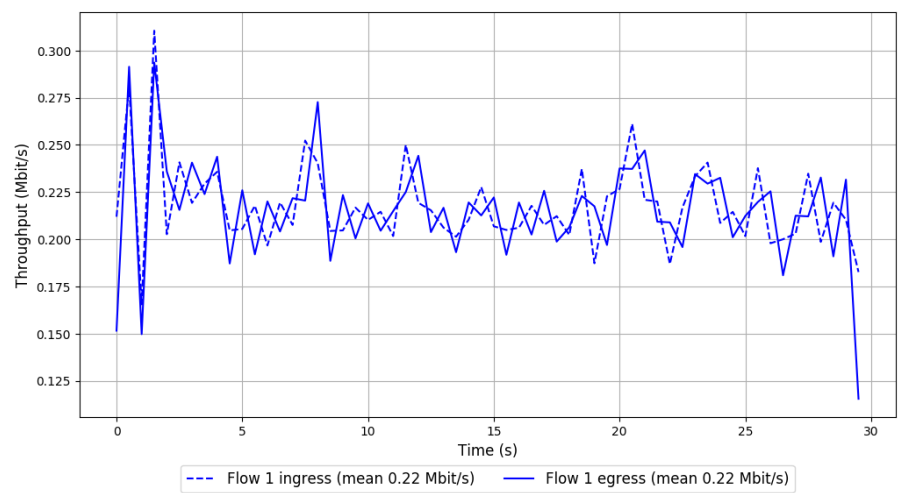
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.520 ms

Loss rate: 0.89%

Run 10: Report of SReAM — Data Link

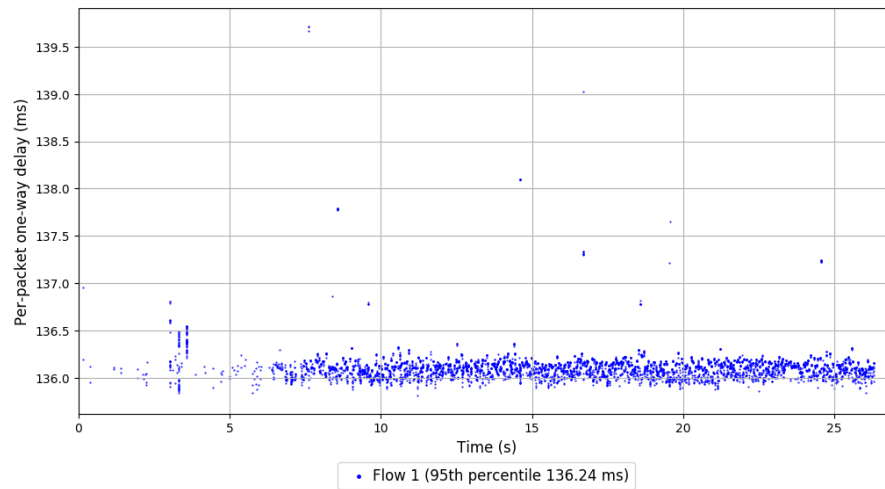
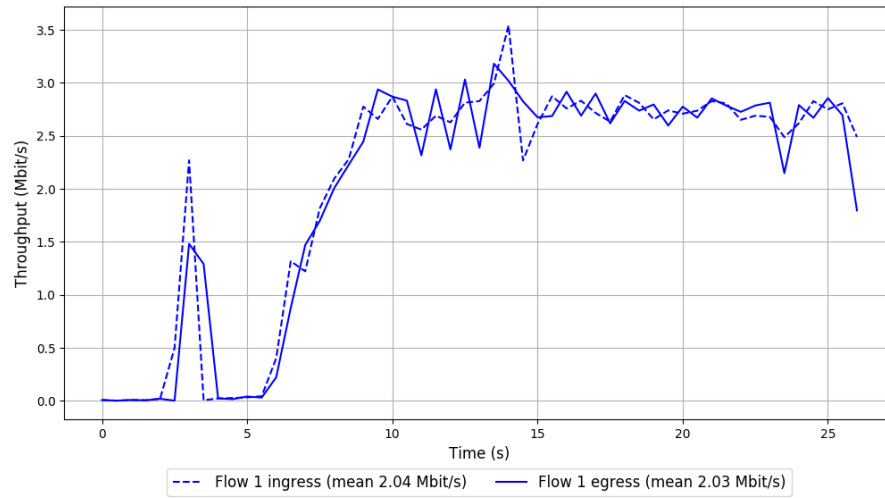


```
Run 1: Statistics of WebRTC media

Start at: 2018-03-20 21:28:30
End at: 2018-03-20 21:29:00

# Below is generated by plot.py at 2018-03-21 03:12:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 136.239 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 136.239 ms
Loss rate: 1.40%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-03-20 21:44:24

End at: 2018-03-20 21:44:54

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.016 ms

Loss rate: 1.05%

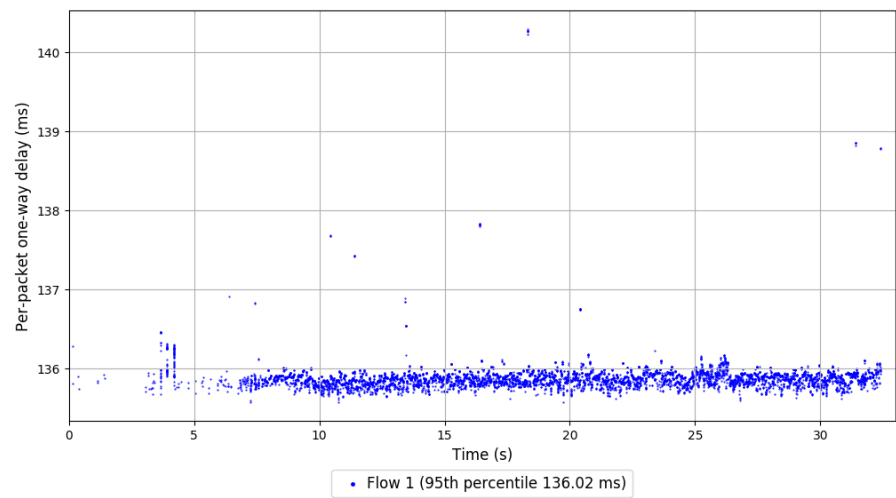
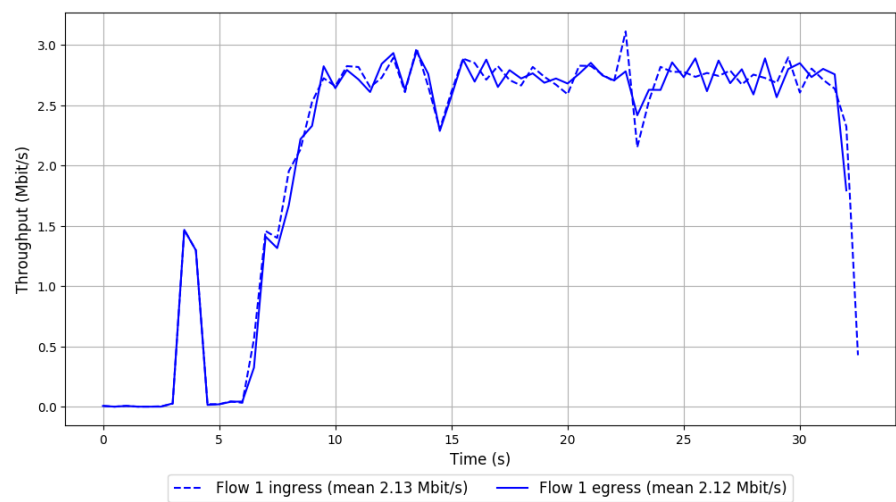
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.016 ms

Loss rate: 1.05%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-03-20 21:59:58

End at: 2018-03-20 22:00:28

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

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

Loss rate: 1.04%

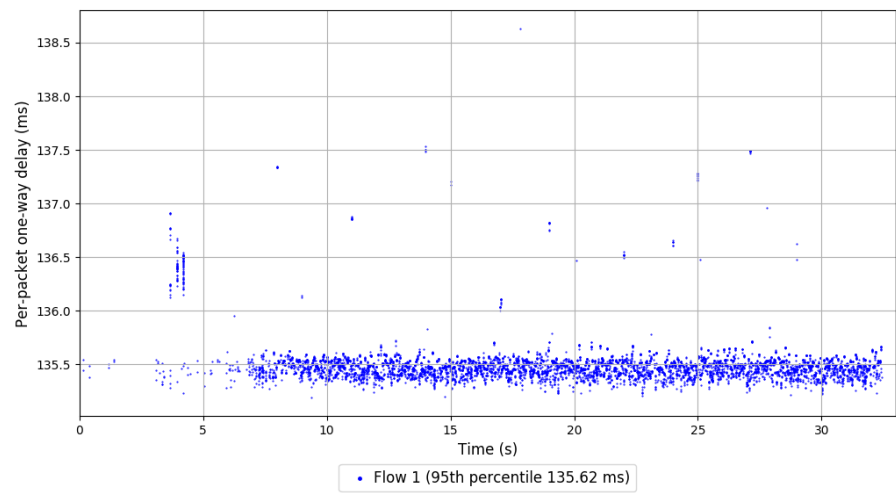
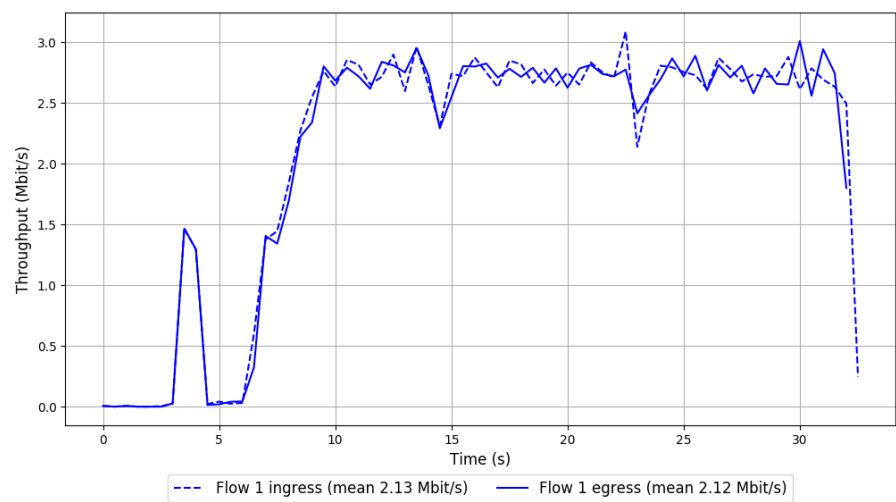
-- Flow 1:

Average throughput: 2.12 Mbit/s

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

Loss rate: 1.04%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-03-20 22:16:12

End at: 2018-03-20 22:16:42

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.162 ms

Loss rate: 0.93%

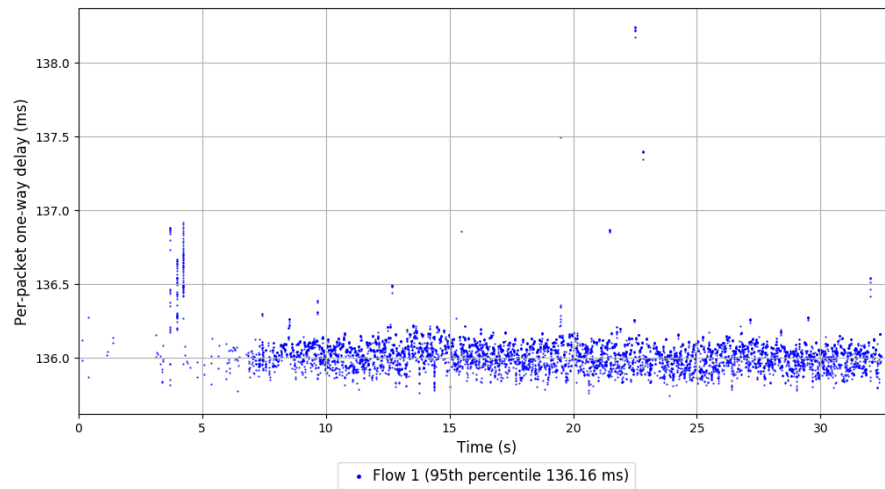
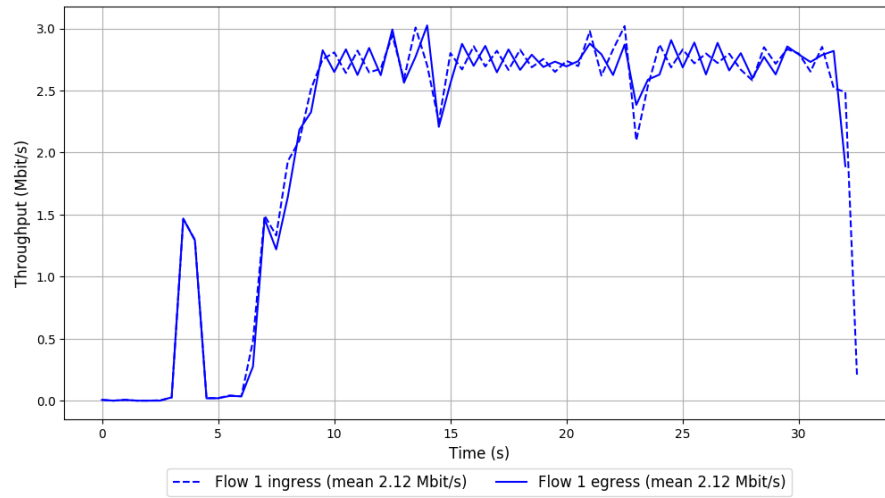
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.162 ms

Loss rate: 0.93%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-03-20 22:32:06

End at: 2018-03-20 22:32:36

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.280 ms

Loss rate: 0.89%

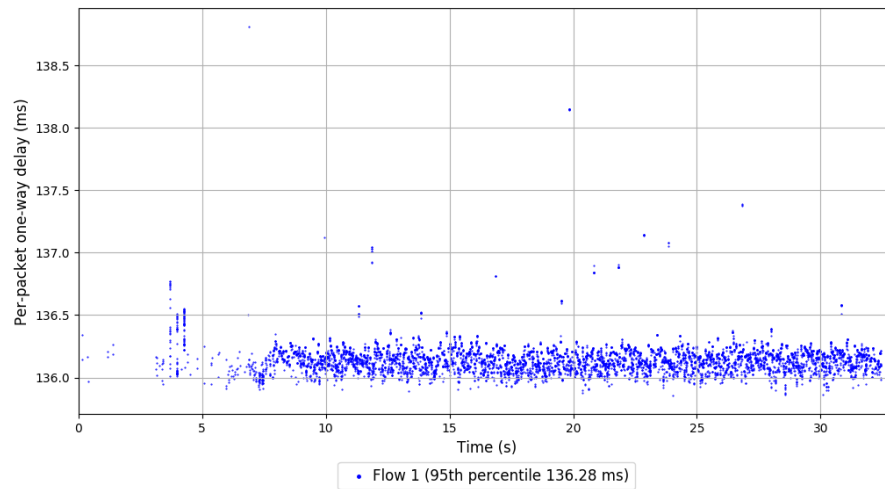
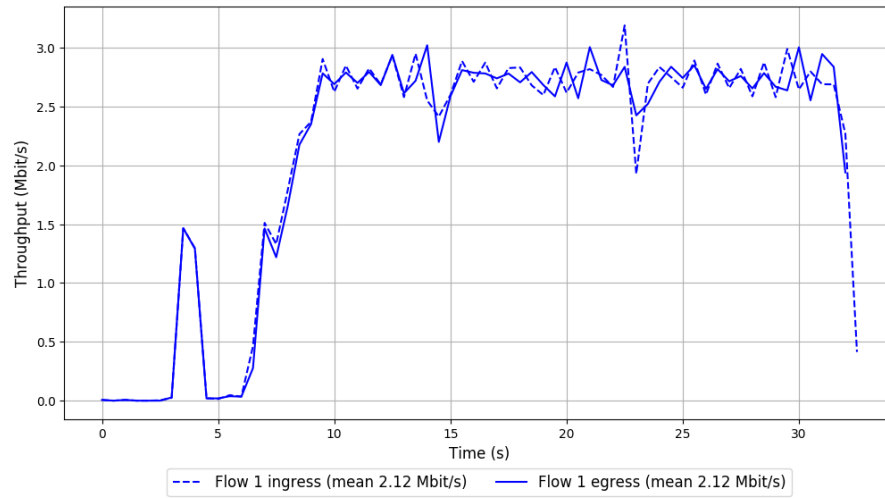
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.280 ms

Loss rate: 0.89%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-03-20 22:48:05

End at: 2018-03-20 22:48:35

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.685 ms

Loss rate: 1.01%

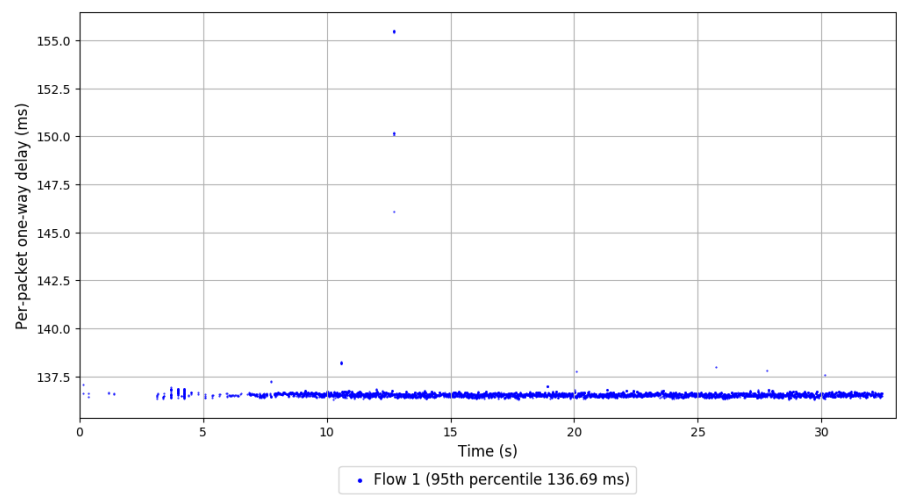
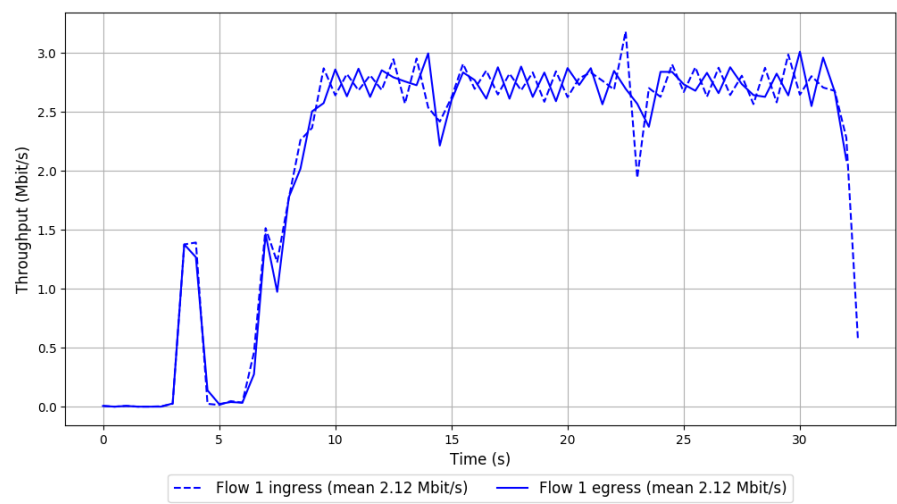
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.685 ms

Loss rate: 1.01%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-03-20 23:03:41

End at: 2018-03-20 23:04:11

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.159 ms

Loss rate: 1.05%

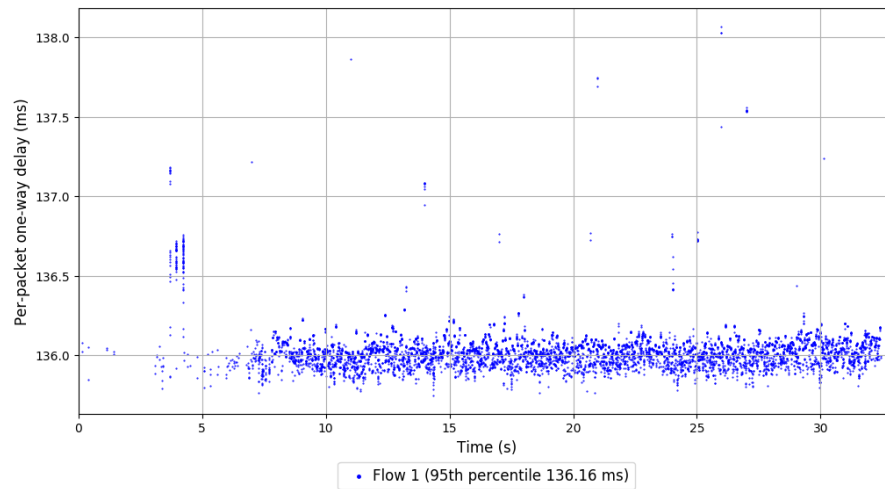
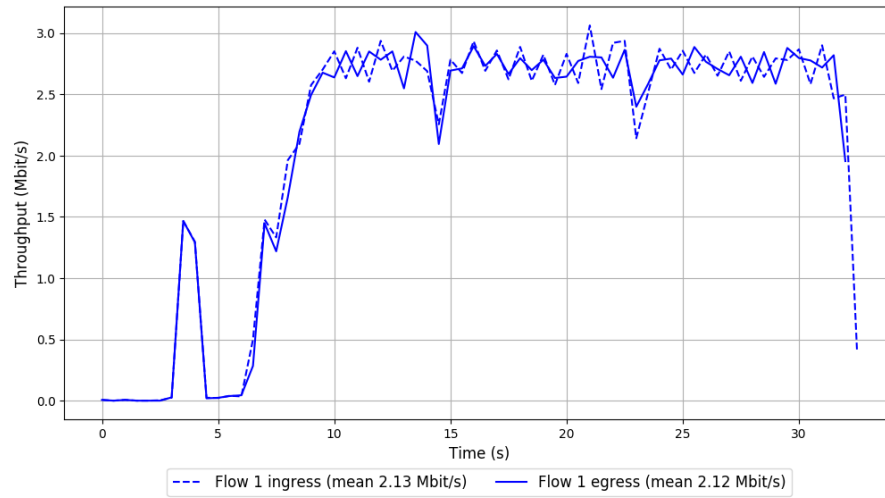
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.159 ms

Loss rate: 1.05%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-03-20 23:19:32

End at: 2018-03-20 23:20:02

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 137.096 ms

Loss rate: 1.05%

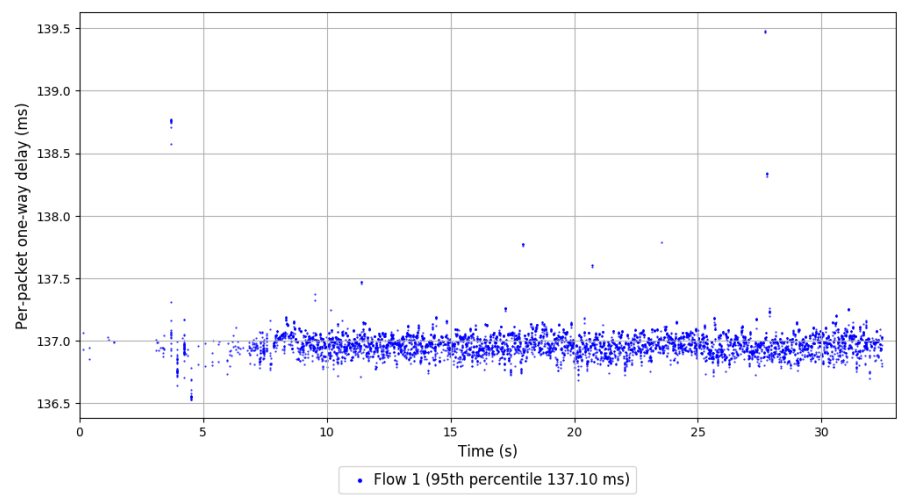
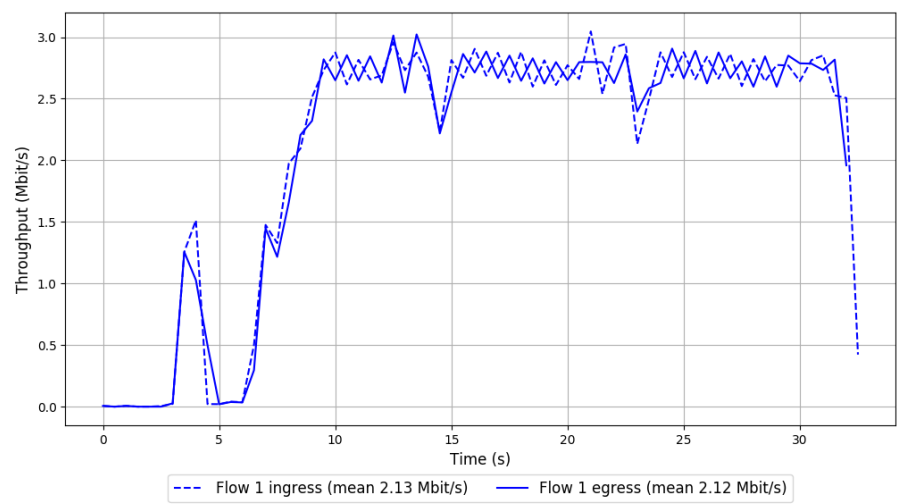
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 137.096 ms

Loss rate: 1.05%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-03-20 23:35:26

End at: 2018-03-20 23:35:56

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.614 ms

Loss rate: 0.90%

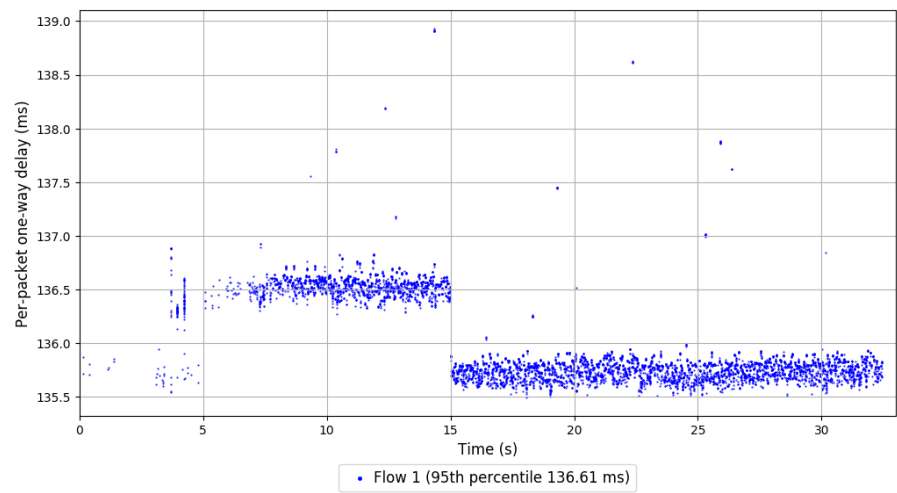
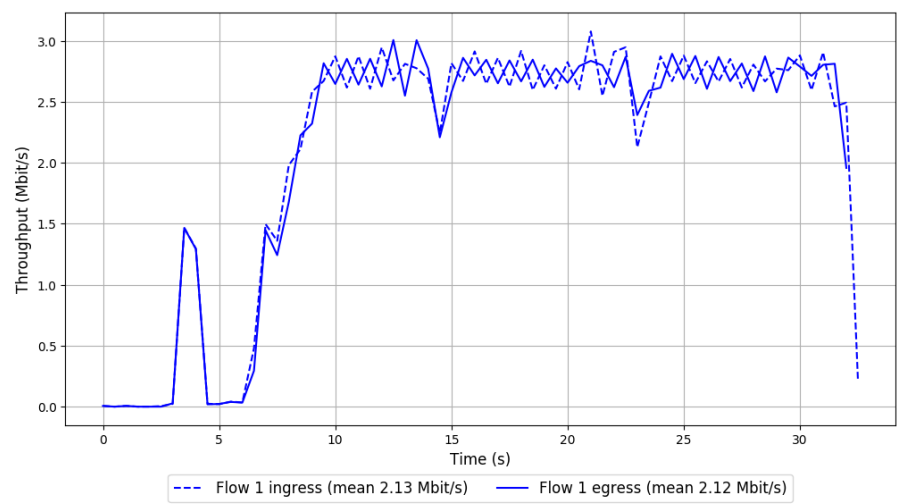
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.614 ms

Loss rate: 0.90%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-20 23:51:24

End at: 2018-03-20 23:51:55

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.541 ms

Loss rate: 1.07%

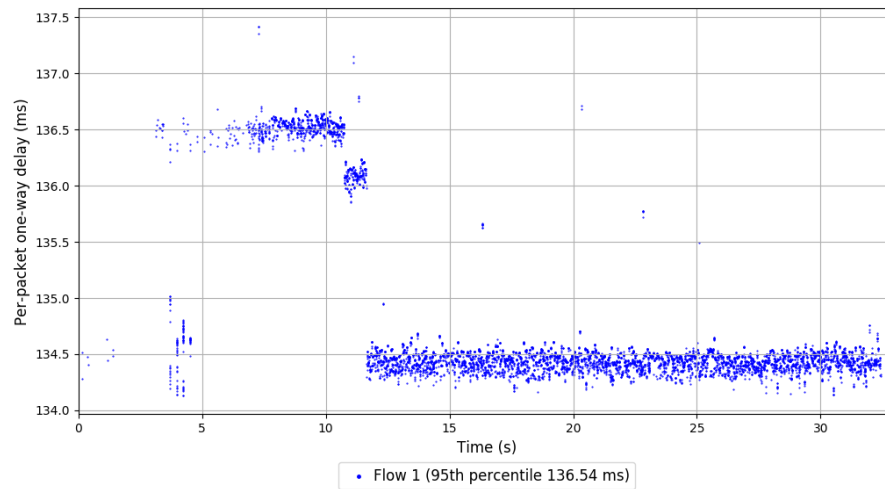
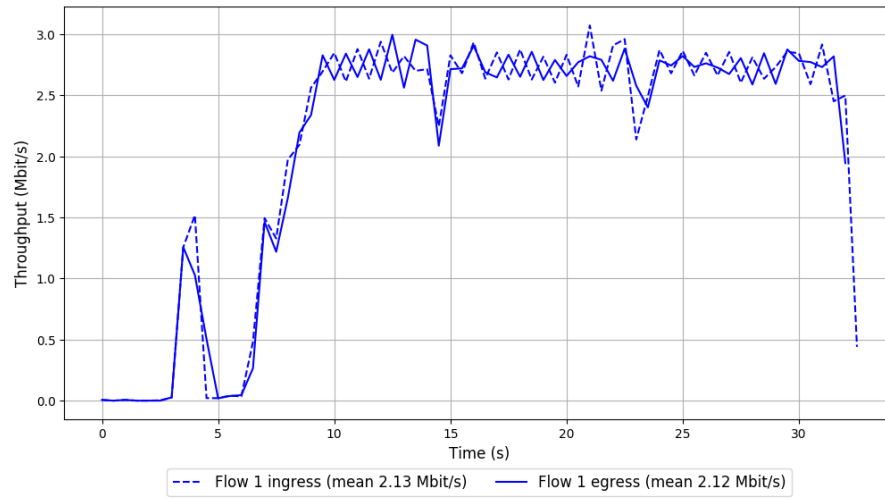
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.541 ms

Loss rate: 1.07%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-03-20 21:25:52

End at: 2018-03-20 21:26:22

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.380 ms

Loss rate: 0.91%

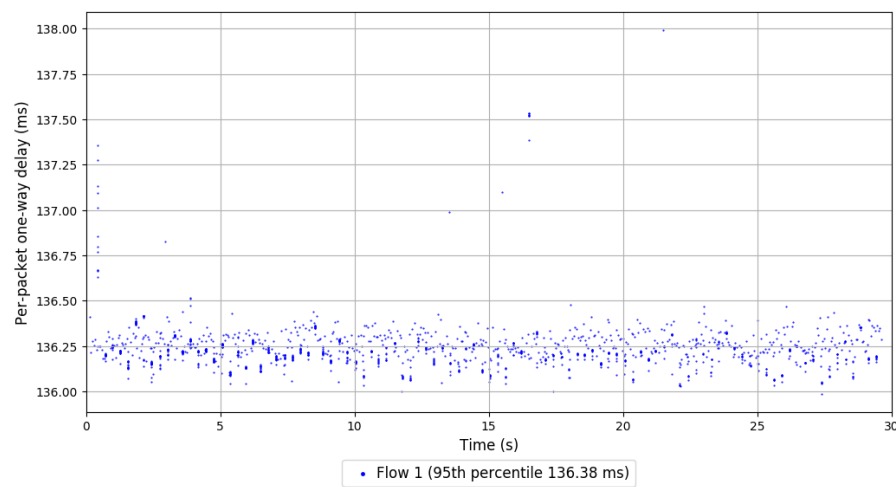
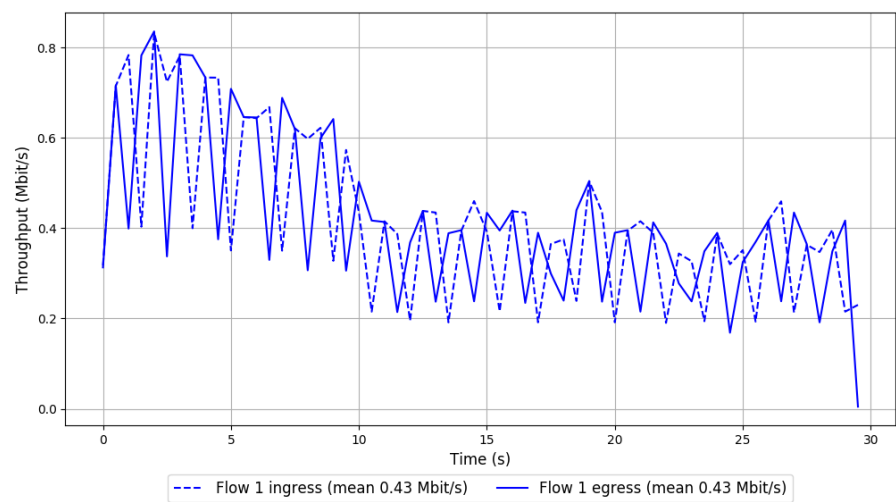
-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.380 ms

Loss rate: 0.91%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-03-20 21:41:49

End at: 2018-03-20 21:42:19

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.190 ms

Loss rate: 1.14%

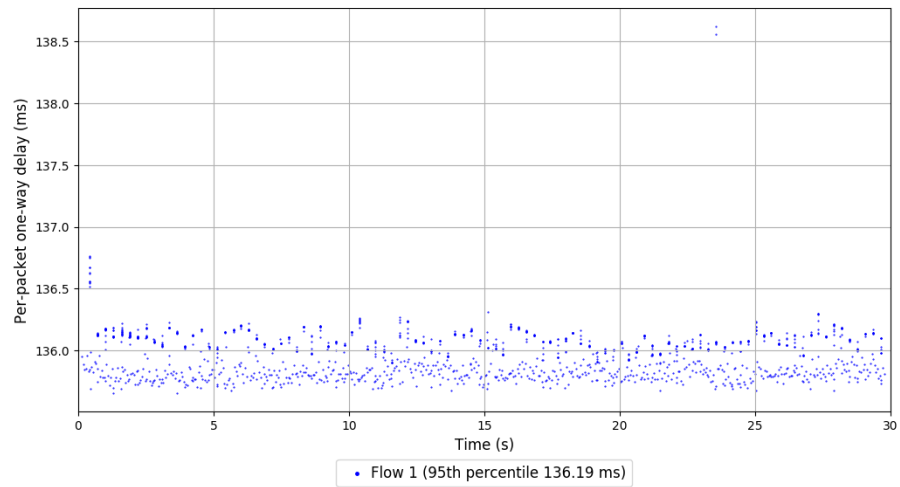
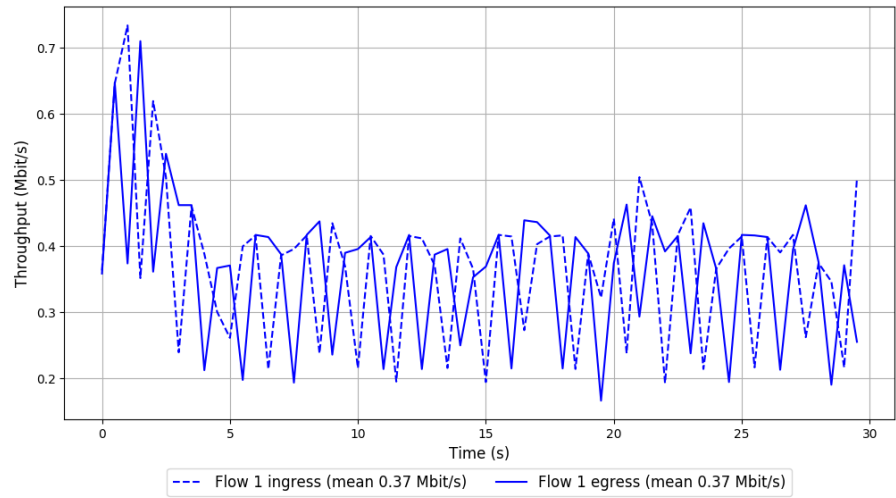
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.190 ms

Loss rate: 1.14%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-03-20 21:57:21

End at: 2018-03-20 21:57:51

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.36 Mbit/s

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

Loss rate: 0.86%

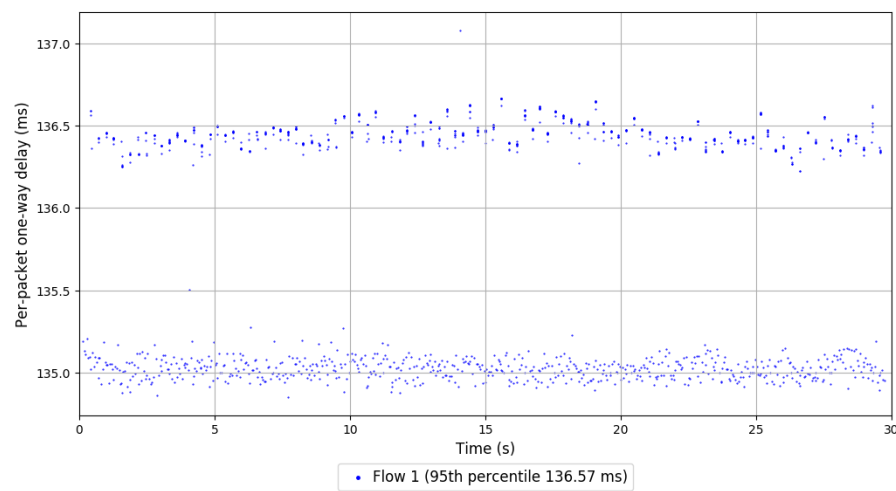
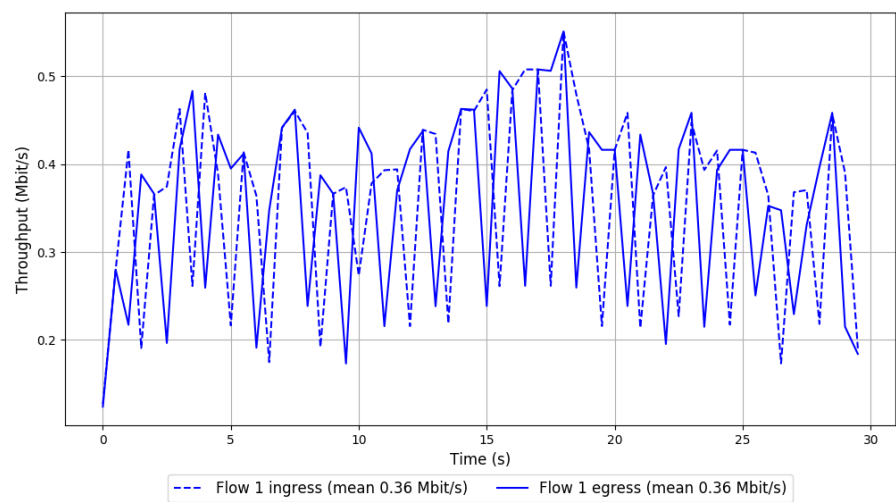
-- Flow 1:

Average throughput: 0.36 Mbit/s

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

Loss rate: 0.86%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-03-20 22:13:35

End at: 2018-03-20 22:14:05

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.521 ms

Loss rate: 0.80%

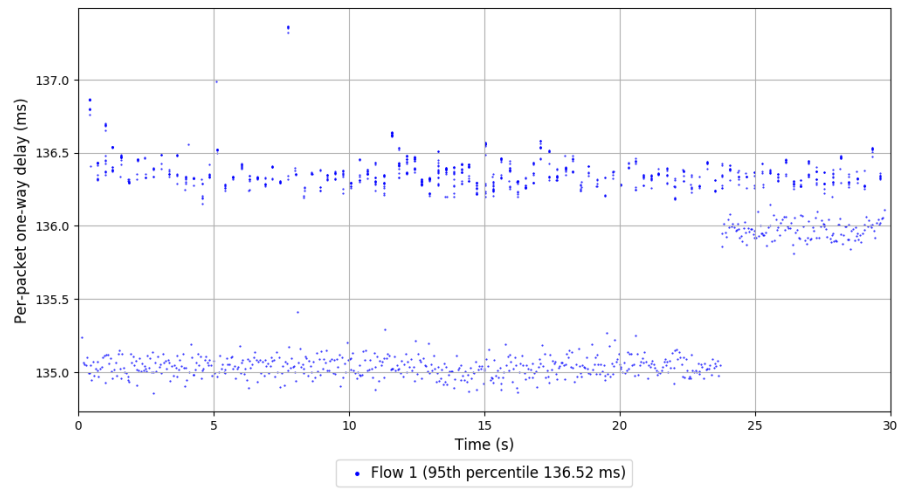
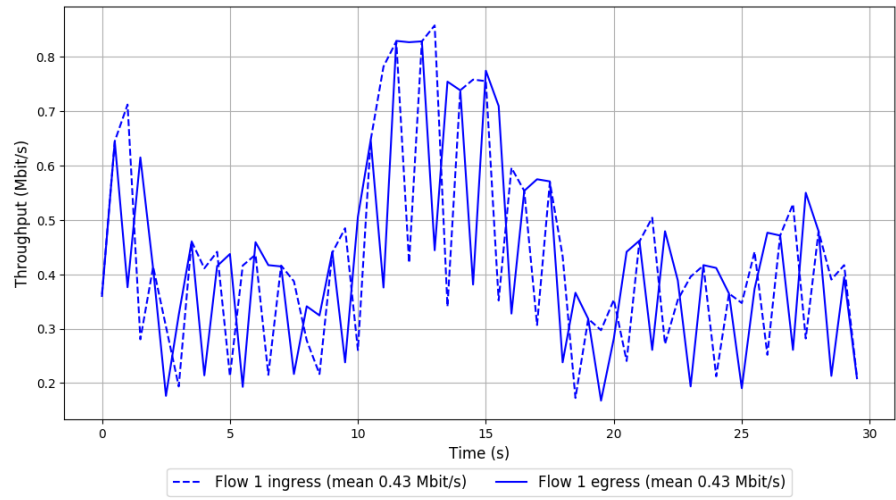
-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.521 ms

Loss rate: 0.80%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-03-20 22:29:34

End at: 2018-03-20 22:30:04

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.381 ms

Loss rate: 0.96%

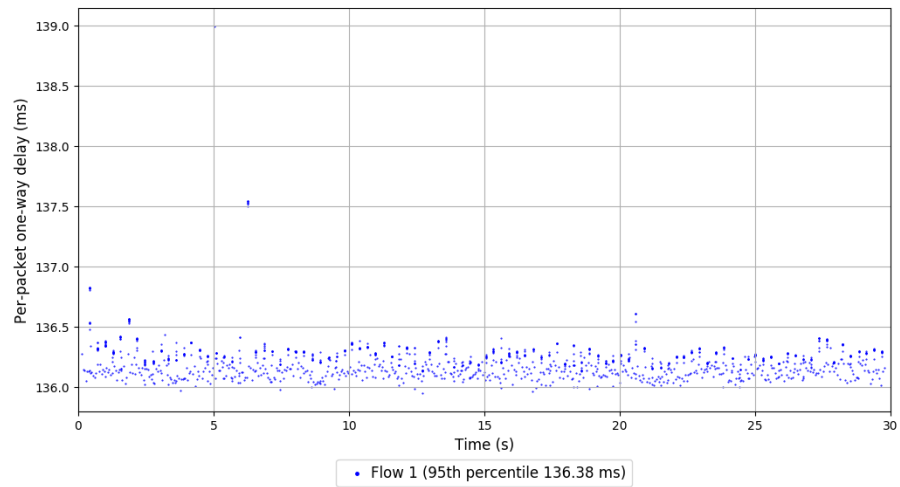
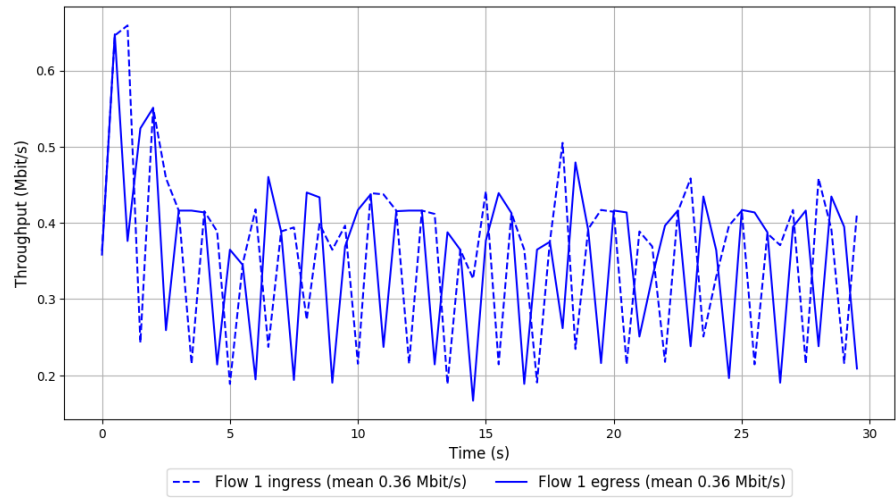
-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.381 ms

Loss rate: 0.96%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-03-20 22:45:28

End at: 2018-03-20 22:45:58

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

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

Loss rate: 0.78%

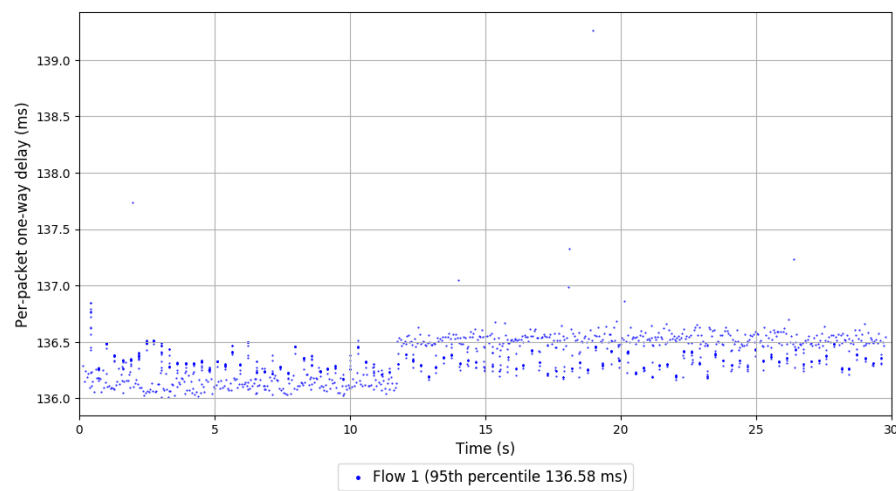
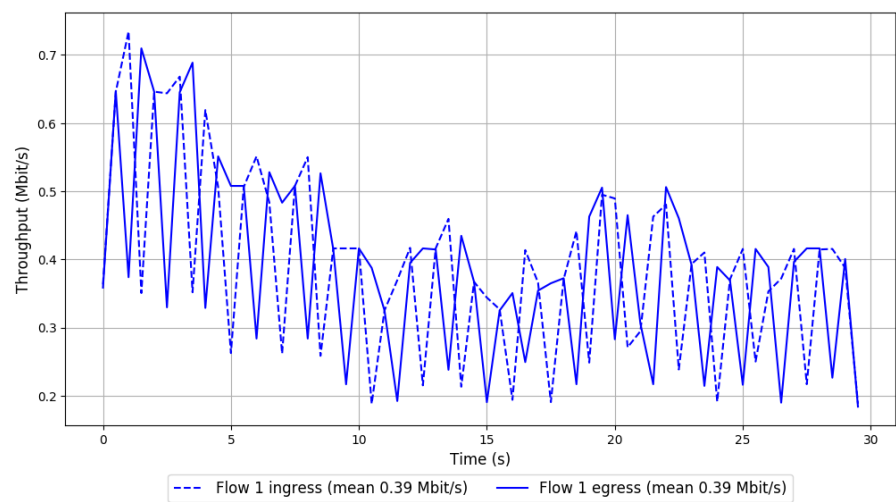
-- Flow 1:

Average throughput: 0.39 Mbit/s

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

Loss rate: 0.78%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-03-20 23:01:18

End at: 2018-03-20 23:01:48

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

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

Loss rate: 1.03%

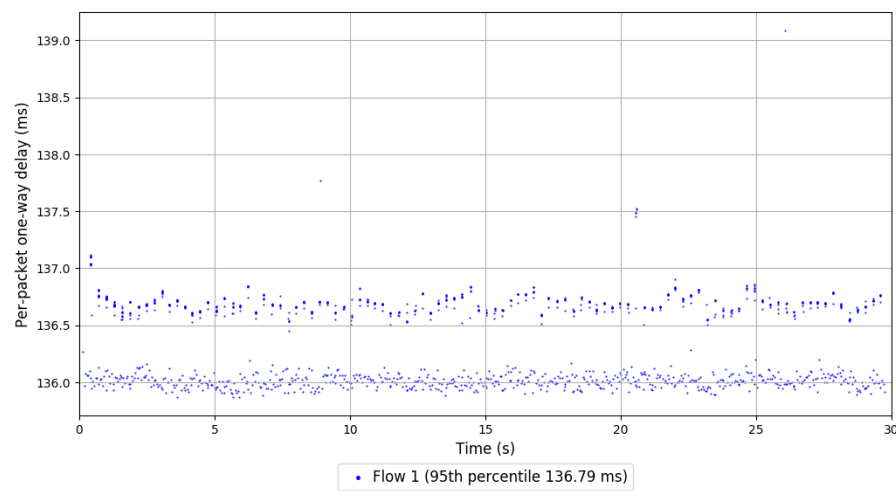
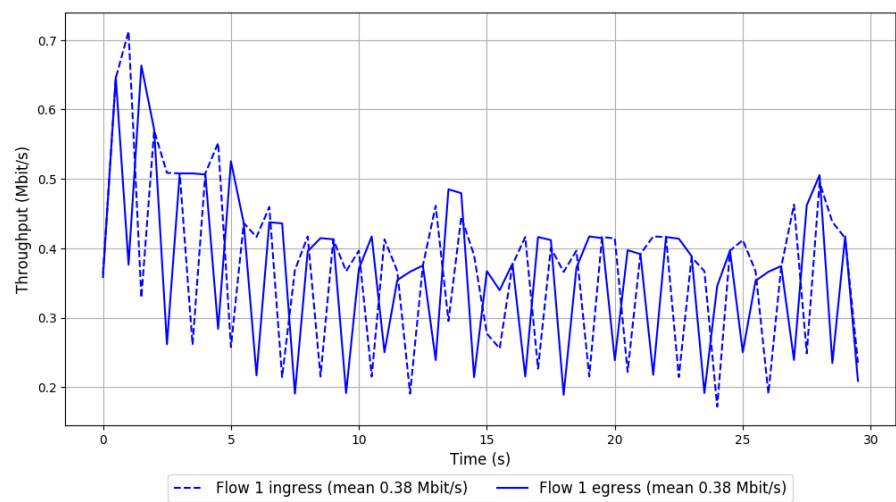
-- Flow 1:

Average throughput: 0.38 Mbit/s

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

Loss rate: 1.03%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-03-20 23:17:09

End at: 2018-03-20 23:17:39

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

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

Loss rate: 1.04%

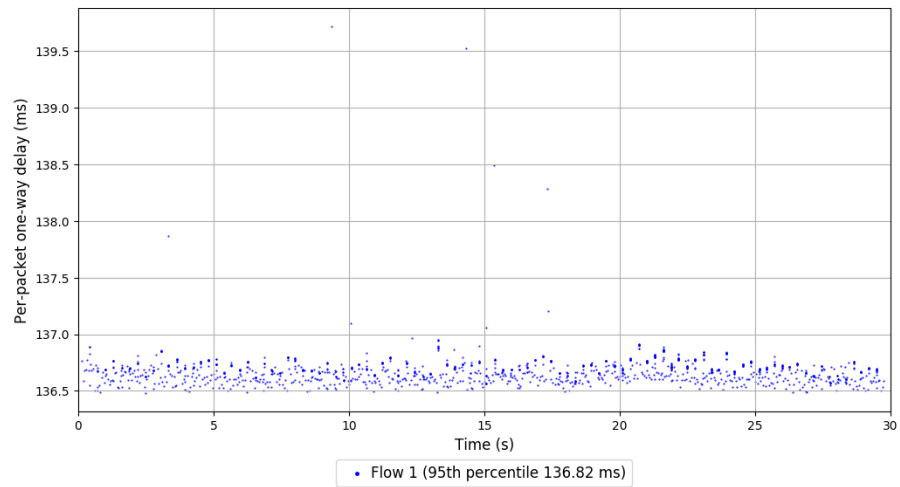
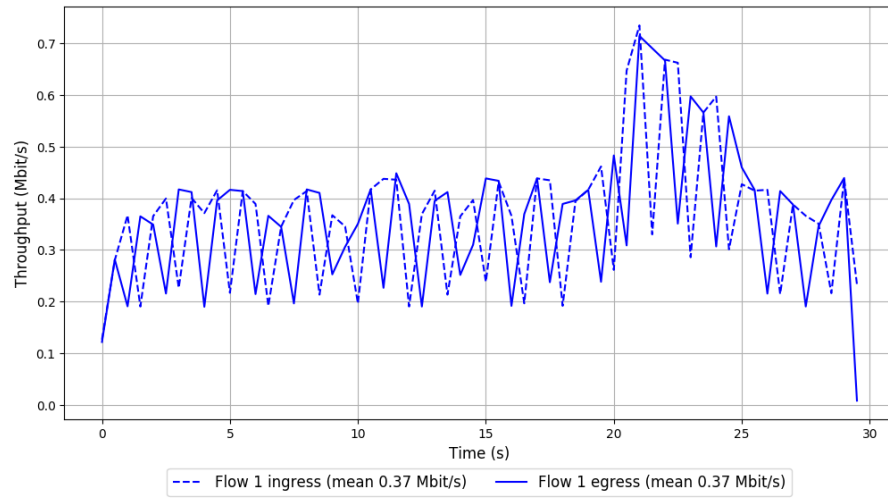
-- Flow 1:

Average throughput: 0.37 Mbit/s

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

Loss rate: 1.04%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-03-20 23:32:54

End at: 2018-03-20 23:33:24

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.627 ms

Loss rate: 0.68%

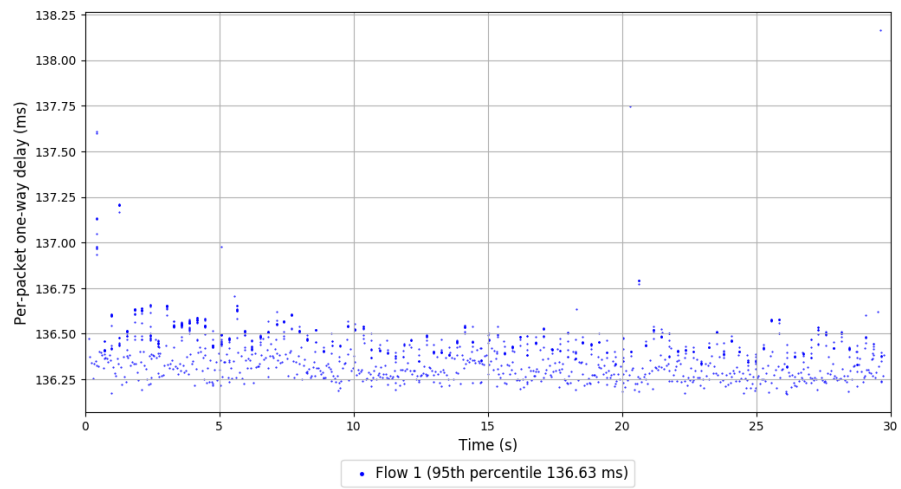
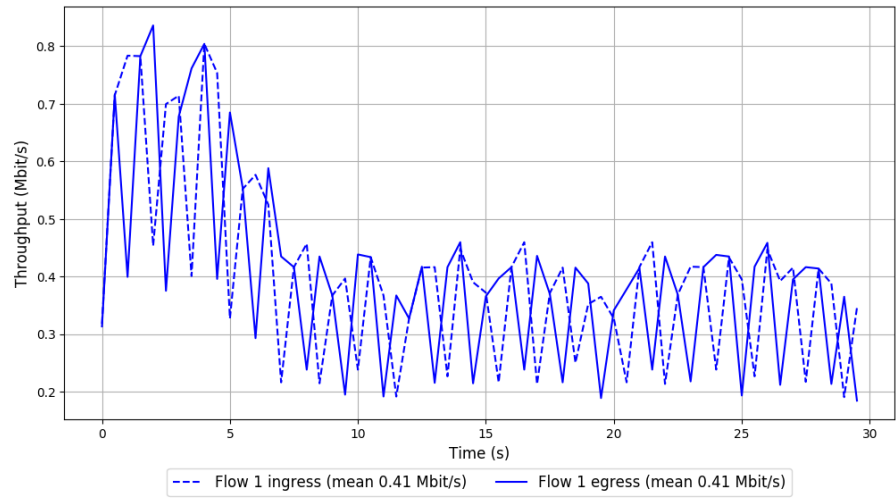
-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.627 ms

Loss rate: 0.68%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-03-20 23:48:46

End at: 2018-03-20 23:49:16

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 135.208 ms

Loss rate: 1.03%

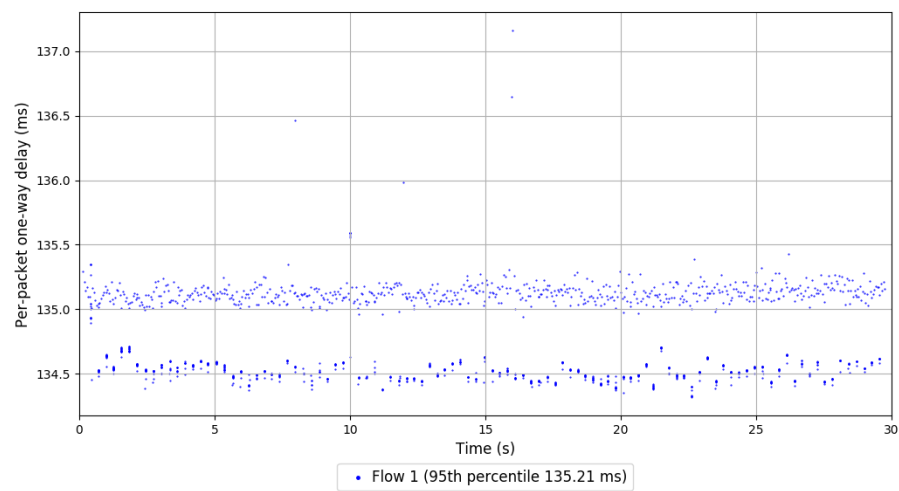
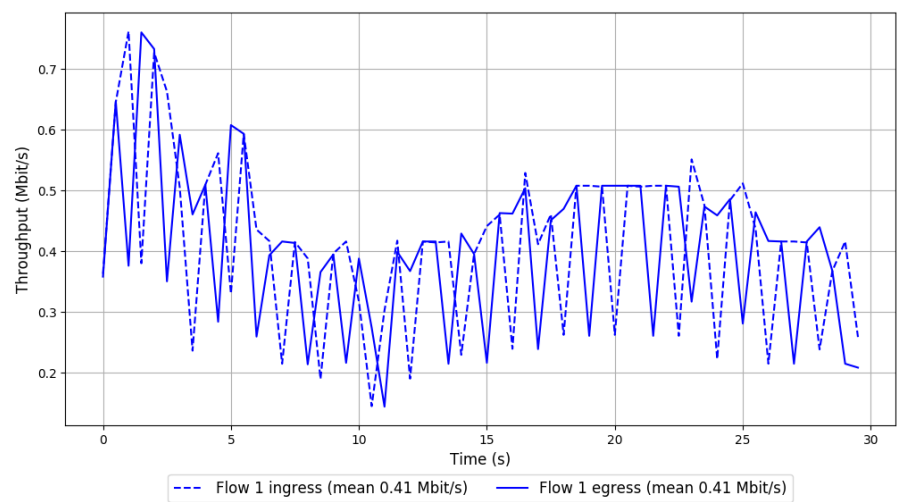
-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 135.208 ms

Loss rate: 1.03%

Run 10: Report of Sprout — Data Link

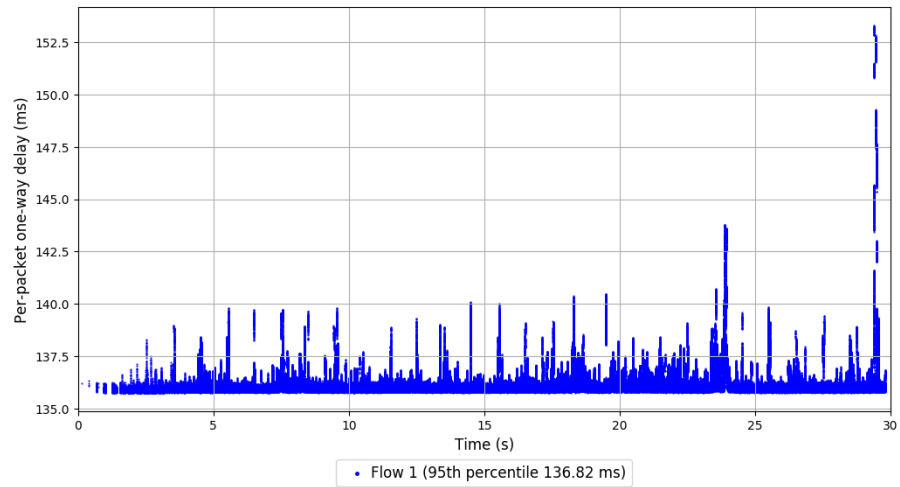
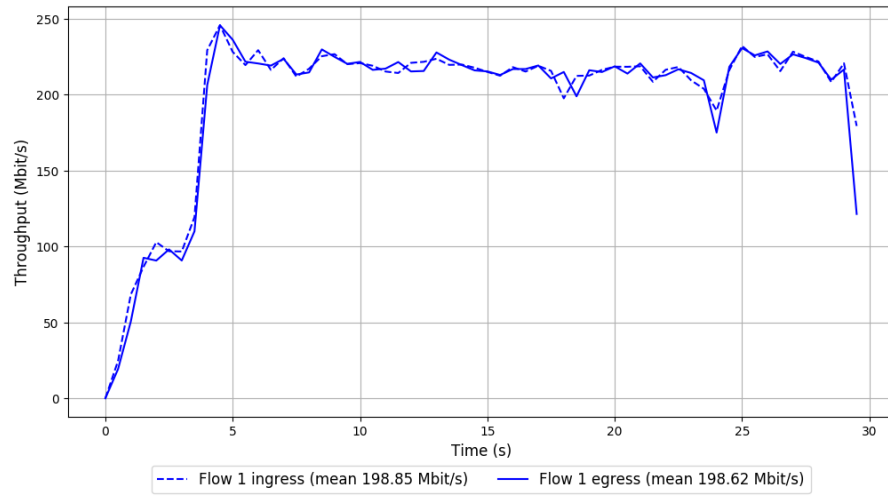


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-03-20 21:34:43
End at: 2018-03-20 21:35:13

# Below is generated by plot.py at 2018-03-21 03:12:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 198.62 Mbit/s
95th percentile per-packet one-way delay: 136.818 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 198.62 Mbit/s
95th percentile per-packet one-way delay: 136.818 ms
Loss rate: 1.02%
```

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

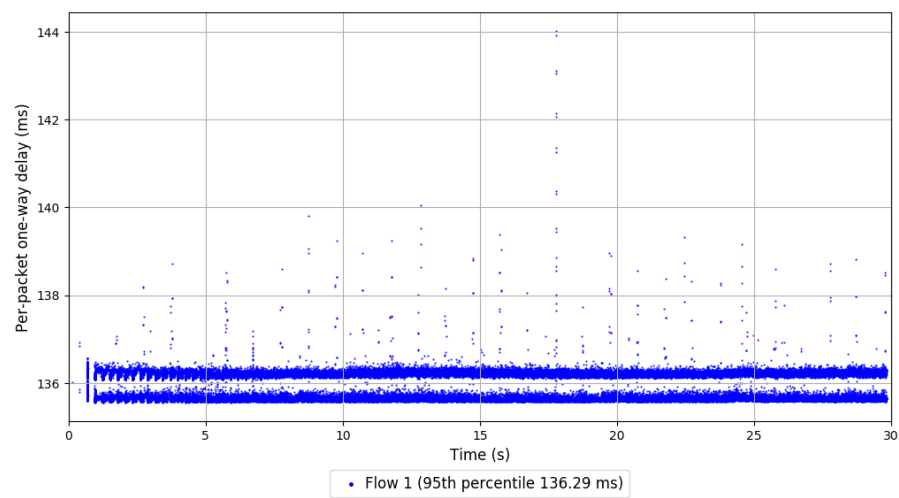
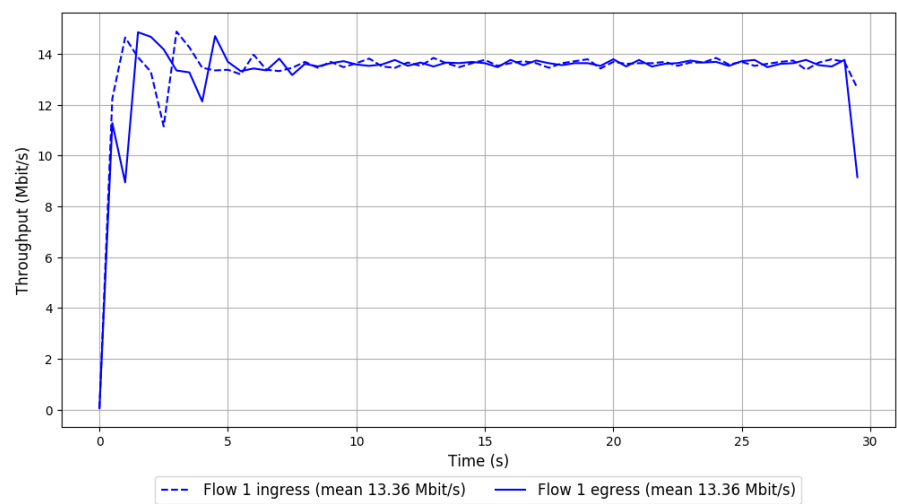


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-03-20 21:50:36
End at: 2018-03-20 21:51:06

# Below is generated by plot.py at 2018-03-21 03:12:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.36 Mbit/s
95th percentile per-packet one-way delay: 136.293 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 13.36 Mbit/s
95th percentile per-packet one-way delay: 136.293 ms
Loss rate: 0.91%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-03-20 22:06:10

End at: 2018-03-20 22:06:40

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.07 Mbit/s

95th percentile per-packet one-way delay: 137.048 ms

Loss rate: 0.98%

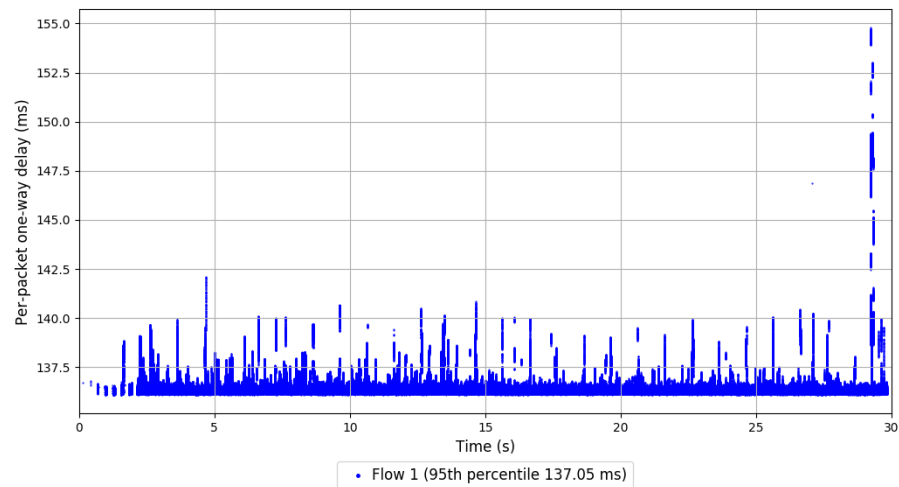
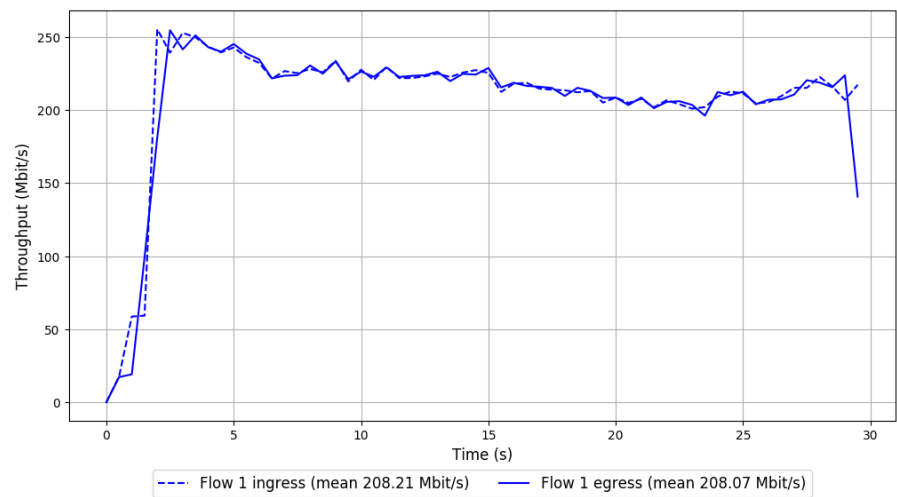
-- Flow 1:

Average throughput: 208.07 Mbit/s

95th percentile per-packet one-way delay: 137.048 ms

Loss rate: 0.98%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-03-20 22:22:21

End at: 2018-03-20 22:22:51

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.49 Mbit/s

95th percentile per-packet one-way delay: 137.006 ms

Loss rate: 0.95%

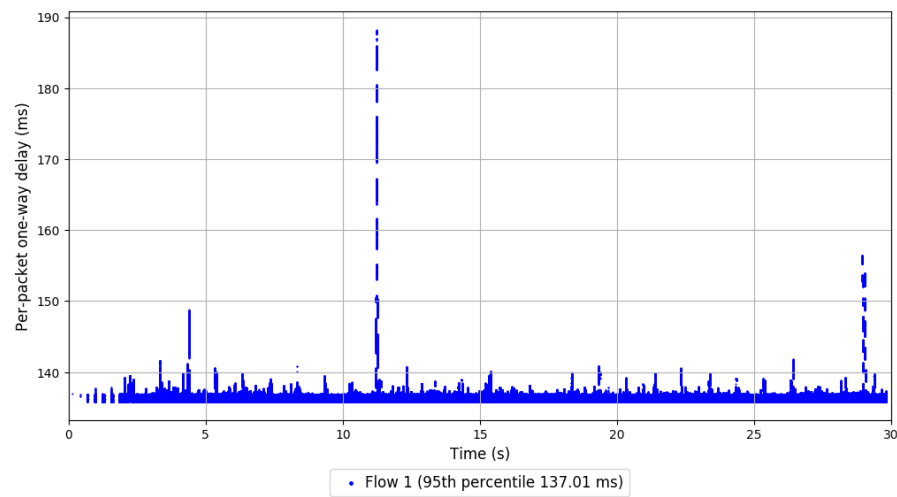
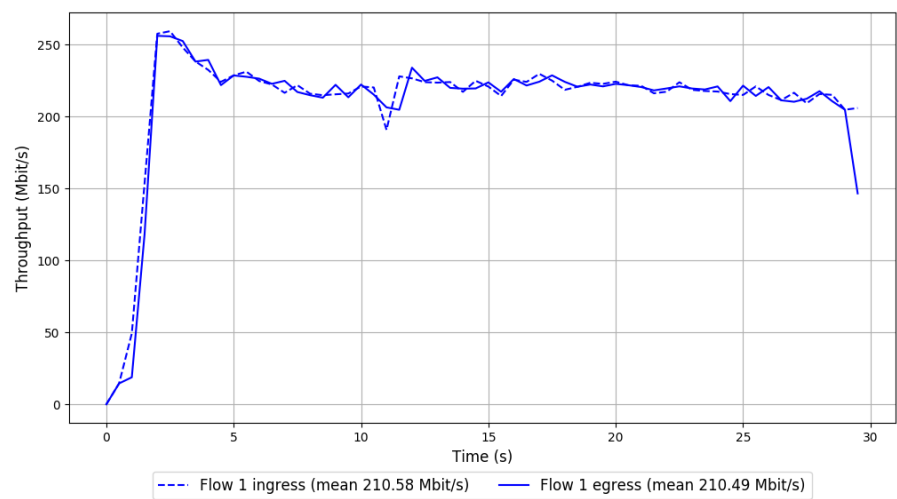
-- Flow 1:

Average throughput: 210.49 Mbit/s

95th percentile per-packet one-way delay: 137.006 ms

Loss rate: 0.95%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-03-20 22:38:17

End at: 2018-03-20 22:38:47

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.67 Mbit/s

95th percentile per-packet one-way delay: 136.640 ms

Loss rate: 0.98%

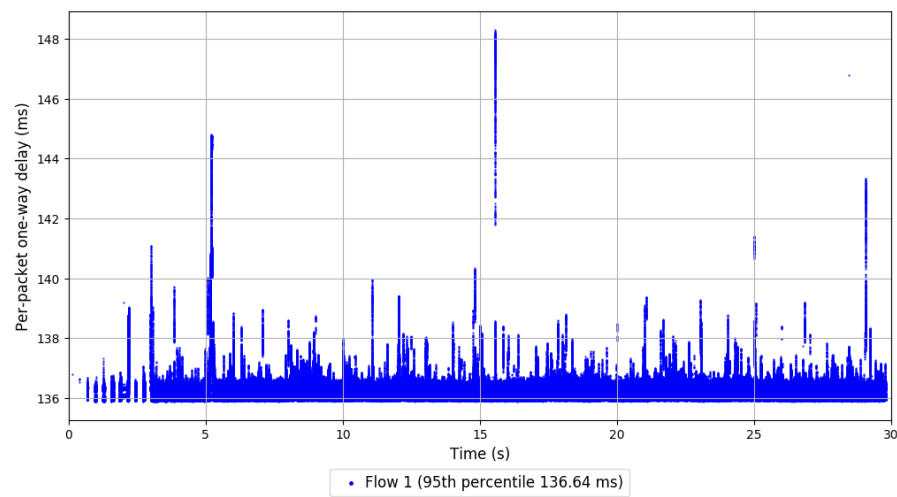
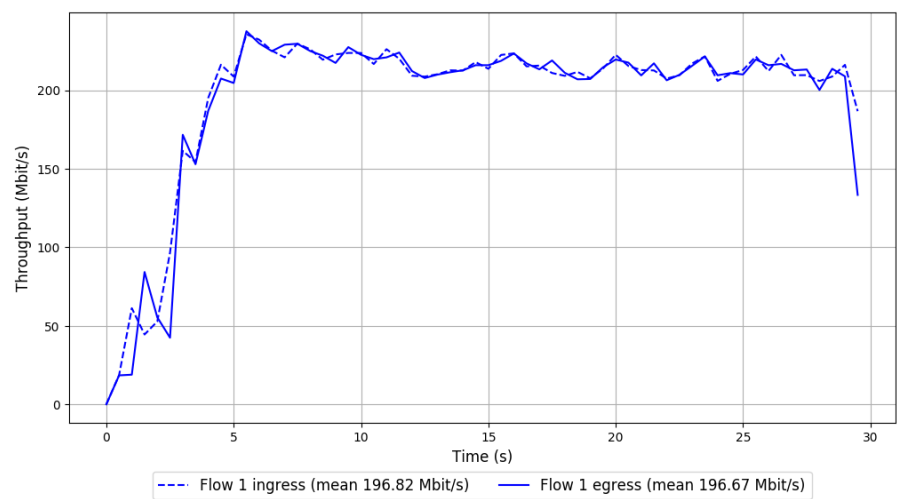
-- Flow 1:

Average throughput: 196.67 Mbit/s

95th percentile per-packet one-way delay: 136.640 ms

Loss rate: 0.98%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-03-20 22:54:16

End at: 2018-03-20 22:54:46

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.31 Mbit/s

95th percentile per-packet one-way delay: 136.462 ms

Loss rate: 0.93%

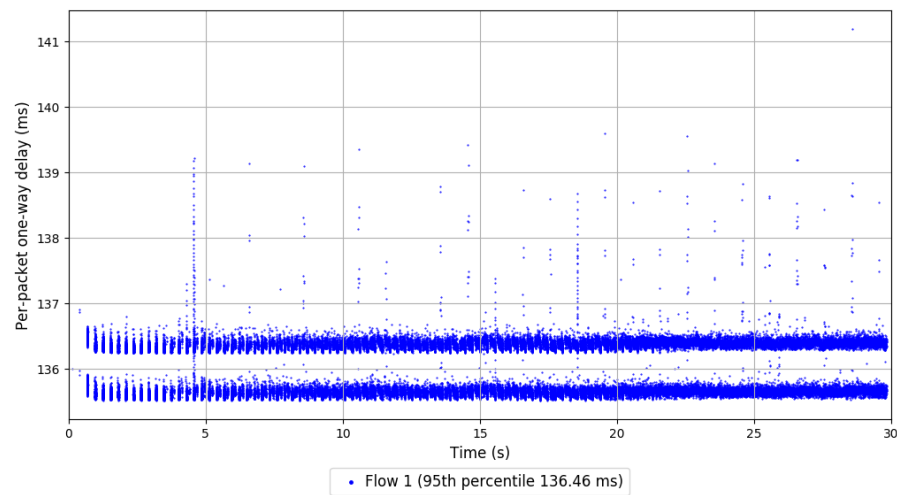
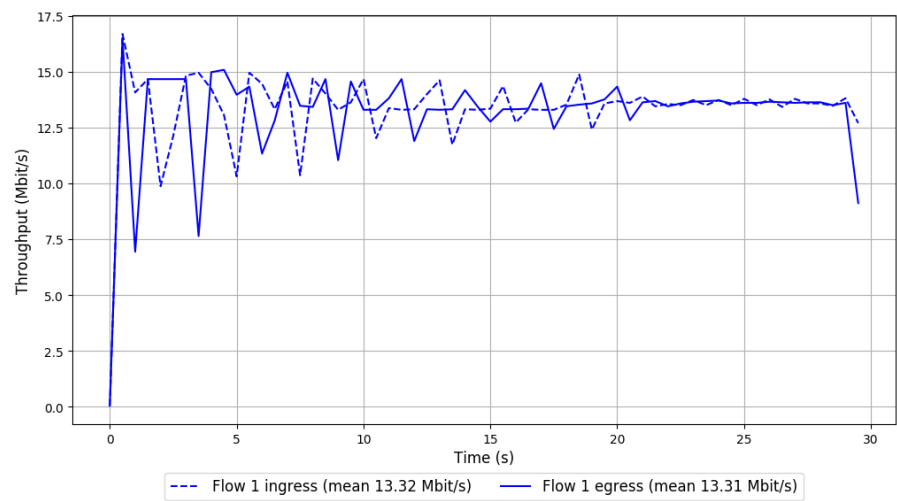
-- Flow 1:

Average throughput: 13.31 Mbit/s

95th percentile per-packet one-way delay: 136.462 ms

Loss rate: 0.93%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-03-20 23:09:51

End at: 2018-03-20 23:10:21

Below is generated by plot.py at 2018-03-21 03:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.21 Mbit/s

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

Loss rate: 0.92%

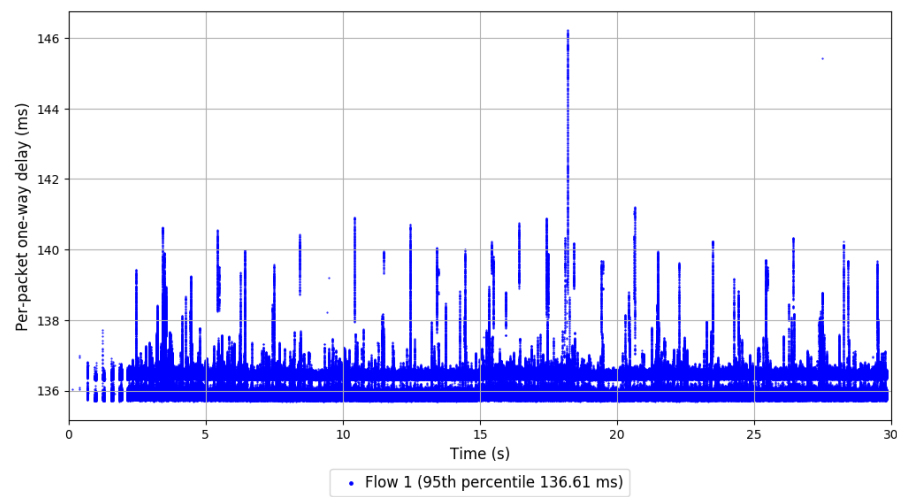
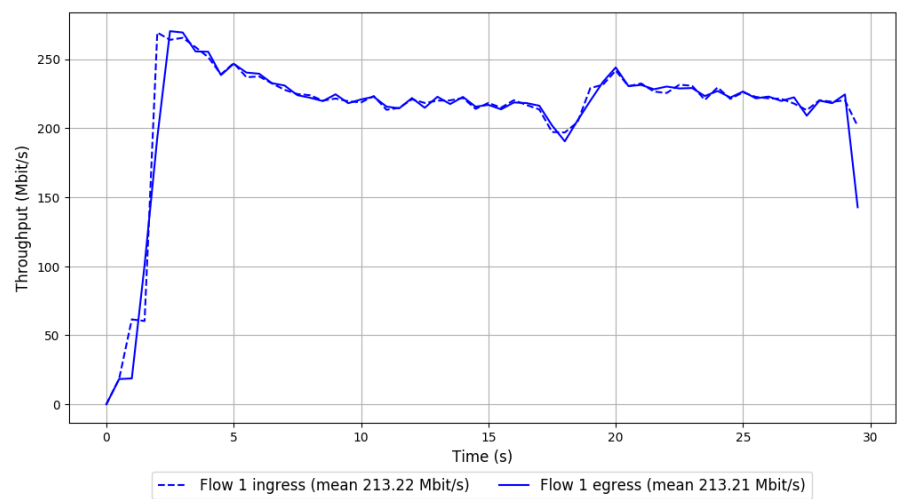
-- Flow 1:

Average throughput: 213.21 Mbit/s

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

Loss rate: 0.92%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-03-20 23:25:41

End at: 2018-03-20 23:26:11

Below is generated by plot.py at 2018-03-21 03:12:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.99 Mbit/s

95th percentile per-packet one-way delay: 137.165 ms

Loss rate: 0.98%

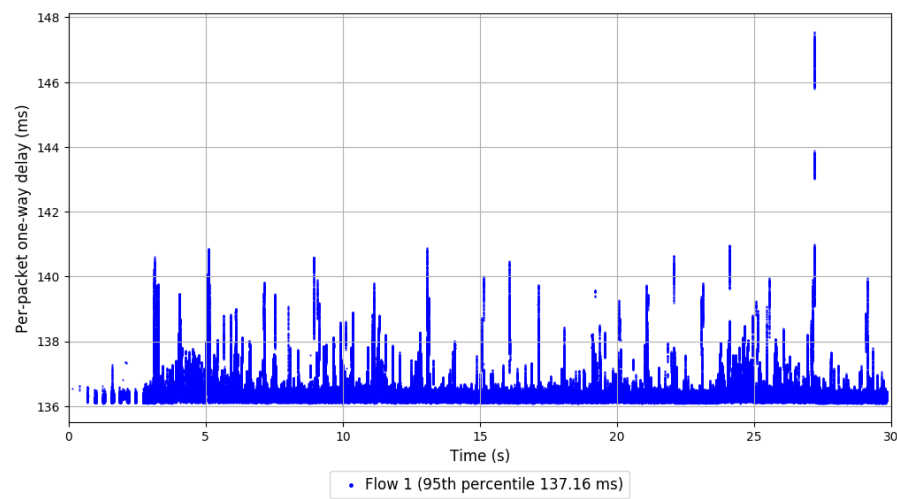
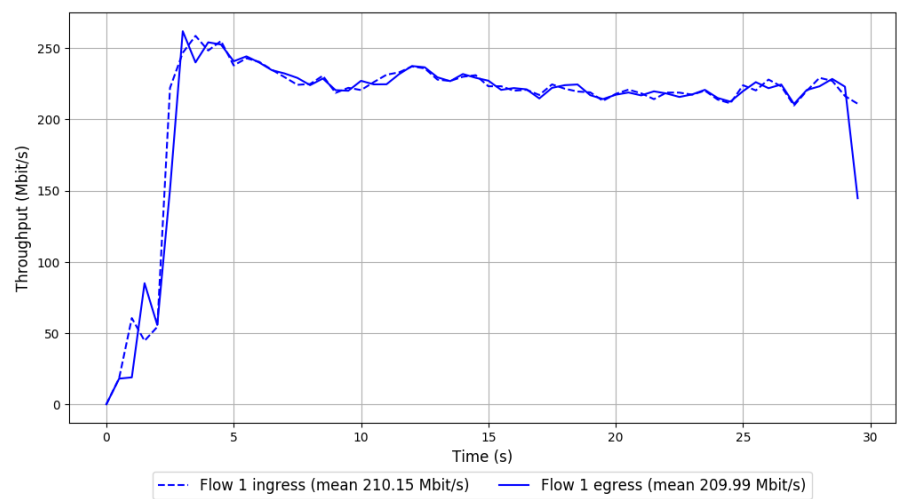
-- Flow 1:

Average throughput: 209.99 Mbit/s

95th percentile per-packet one-way delay: 137.165 ms

Loss rate: 0.98%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-03-20 23:41:36

End at: 2018-03-20 23:42:06

Below is generated by plot.py at 2018-03-21 03:17:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.55 Mbit/s

95th percentile per-packet one-way delay: 137.346 ms

Loss rate: 0.93%

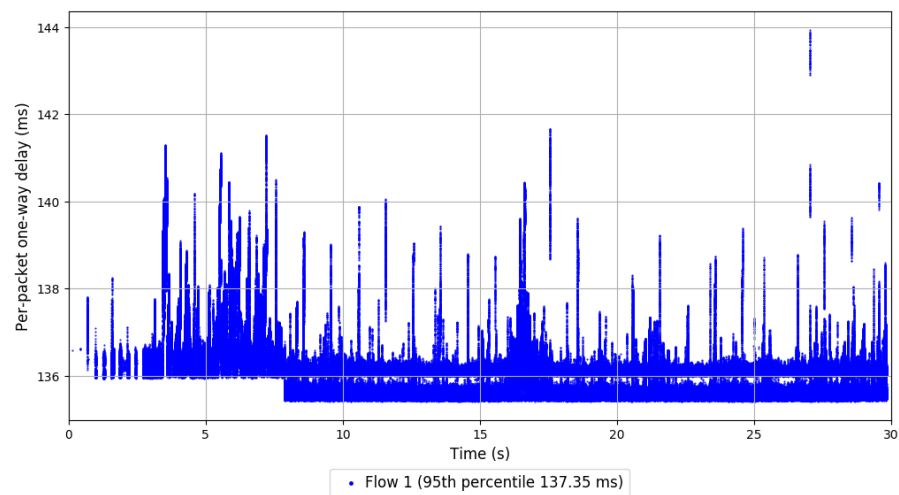
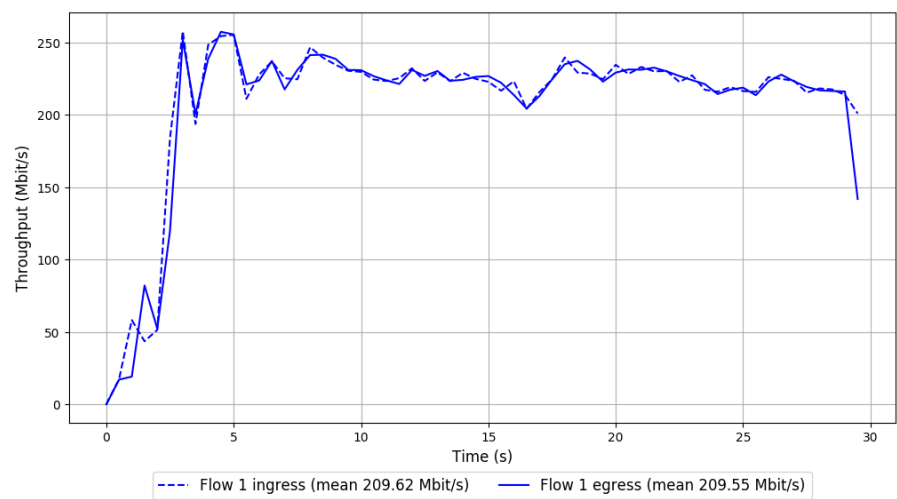
-- Flow 1:

Average throughput: 209.55 Mbit/s

95th percentile per-packet one-way delay: 137.346 ms

Loss rate: 0.93%

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

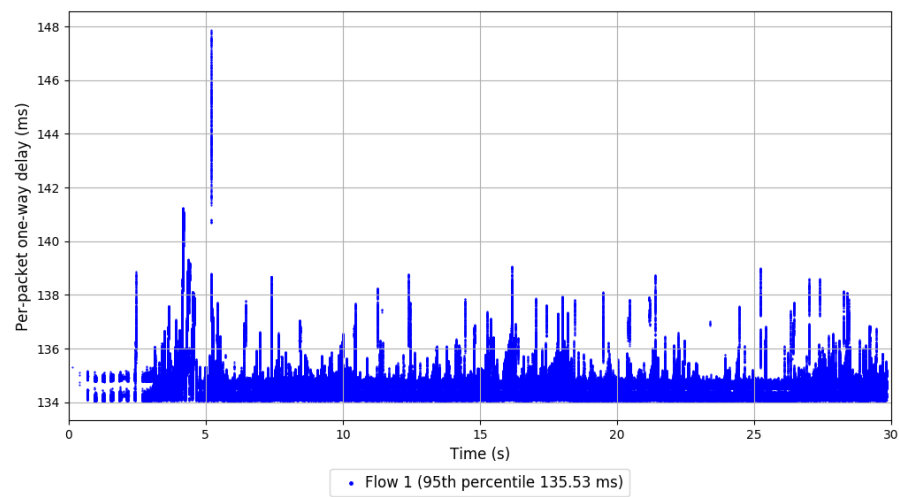
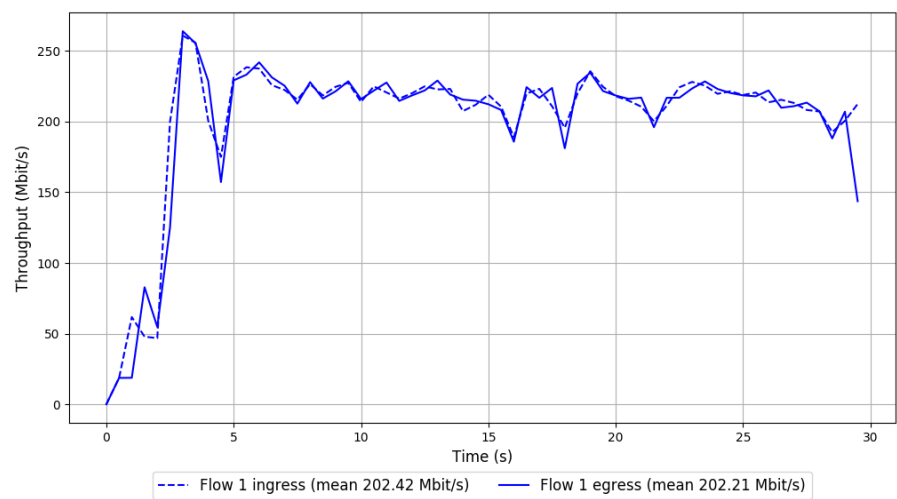


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-03-20 23:57:36
End at: 2018-03-20 23:58:06

# Below is generated by plot.py at 2018-03-21 03:17:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 202.21 Mbit/s
95th percentile per-packet one-way delay: 135.533 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 202.21 Mbit/s
95th percentile per-packet one-way delay: 135.533 ms
Loss rate: 1.01%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-03-20 21:33:55

End at: 2018-03-20 21:34:25

Below is generated by plot.py at 2018-03-21 03:17:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.43 Mbit/s

95th percentile per-packet one-way delay: 143.958 ms

Loss rate: 1.00%

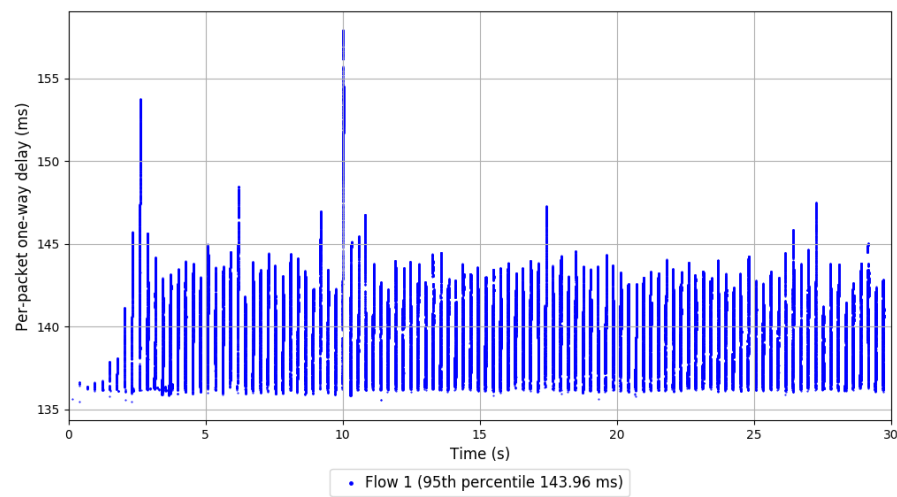
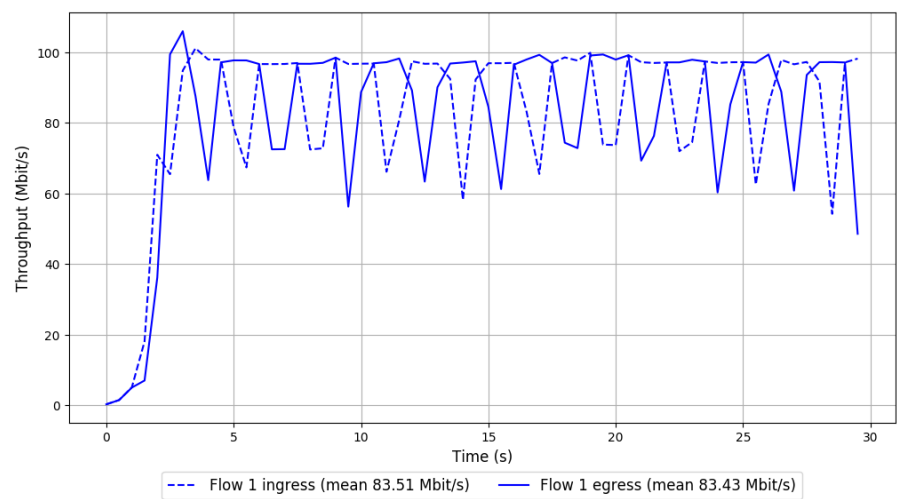
-- Flow 1:

Average throughput: 83.43 Mbit/s

95th percentile per-packet one-way delay: 143.958 ms

Loss rate: 1.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-03-20 21:49:49

End at: 2018-03-20 21:50:19

Below is generated by plot.py at 2018-03-21 03:17:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.17 Mbit/s

95th percentile per-packet one-way delay: 147.633 ms

Loss rate: 1.00%

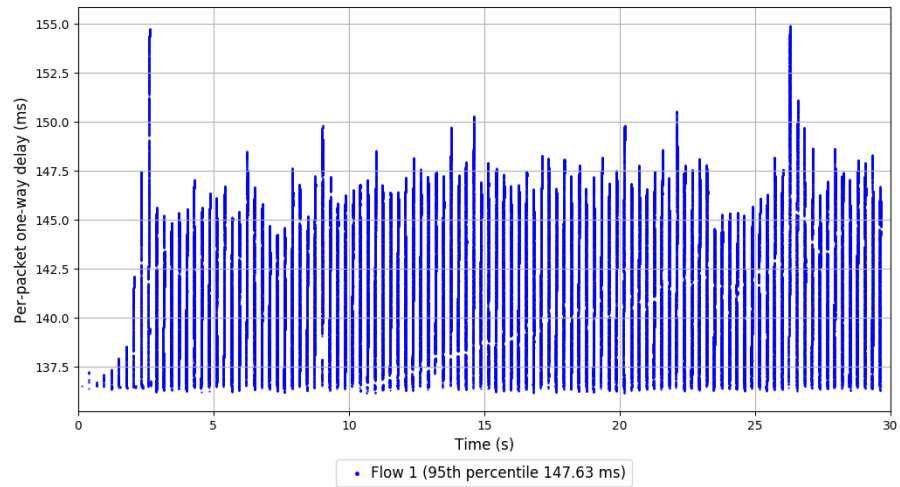
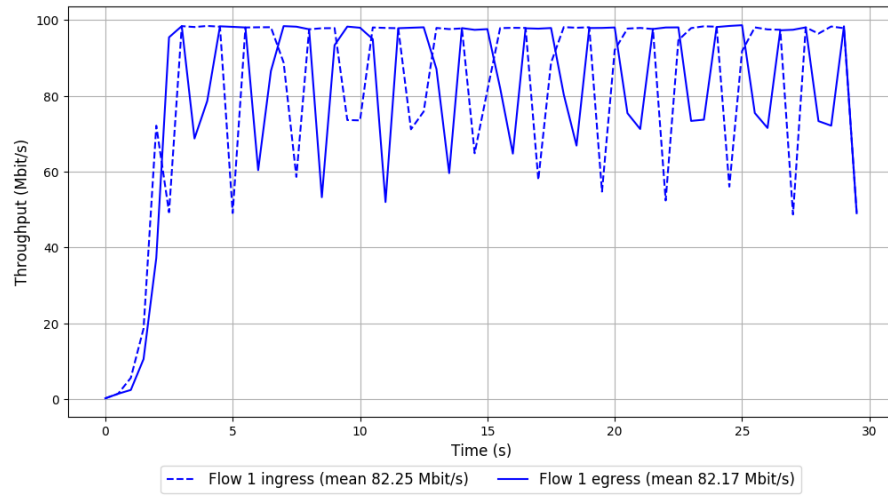
-- Flow 1:

Average throughput: 82.17 Mbit/s

95th percentile per-packet one-way delay: 147.633 ms

Loss rate: 1.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-03-20 22:05:23

End at: 2018-03-20 22:05:53

Below is generated by plot.py at 2018-03-21 03:17:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.77 Mbit/s

95th percentile per-packet one-way delay: 139.584 ms

Loss rate: 0.99%

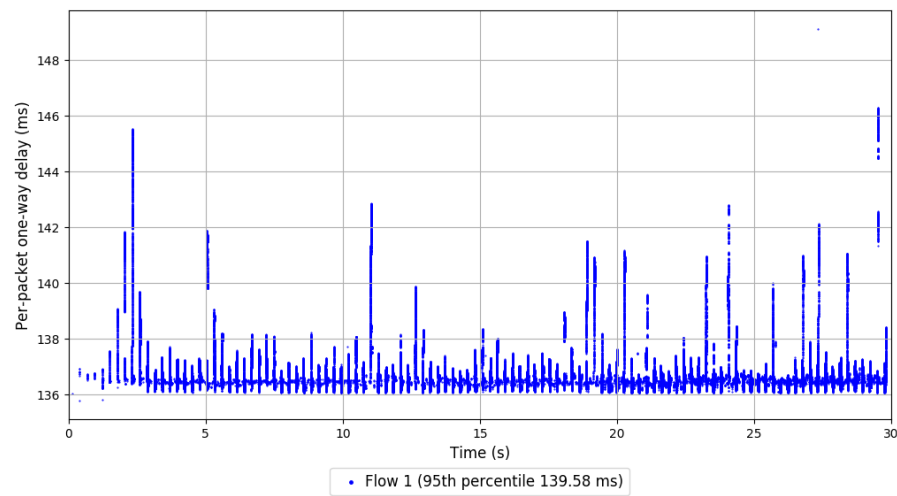
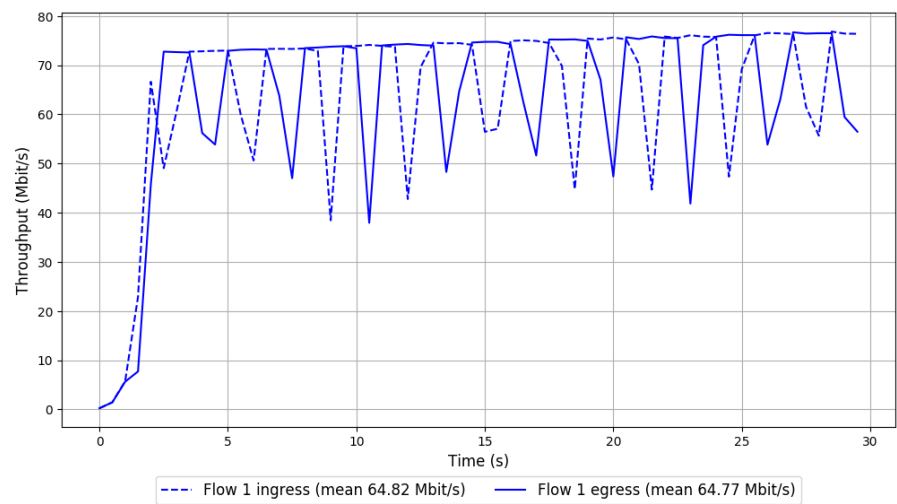
-- Flow 1:

Average throughput: 64.77 Mbit/s

95th percentile per-packet one-way delay: 139.584 ms

Loss rate: 0.99%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-03-20 22:21:36

End at: 2018-03-20 22:22:06

Below is generated by plot.py at 2018-03-21 03:17:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.73 Mbit/s

95th percentile per-packet one-way delay: 138.986 ms

Loss rate: 0.98%

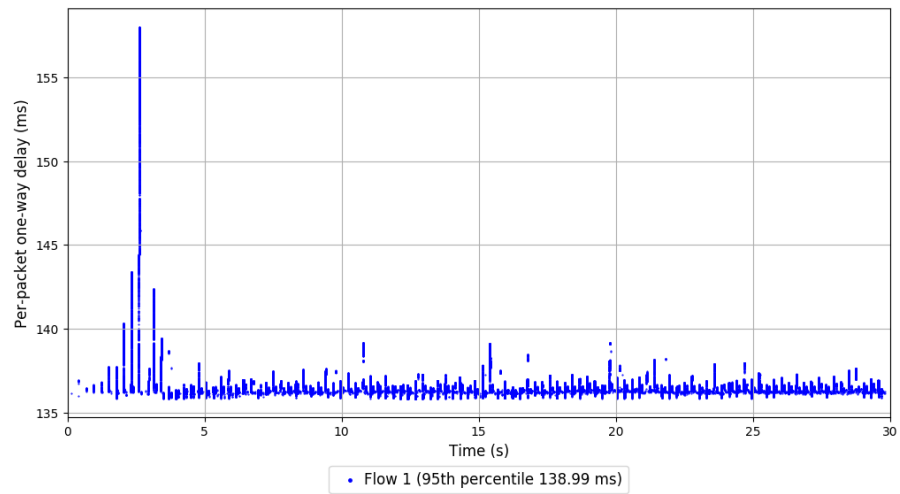
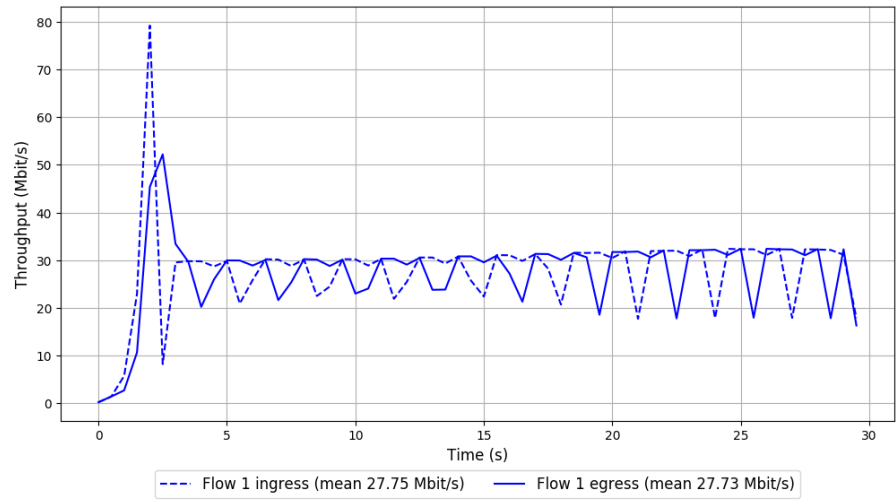
-- Flow 1:

Average throughput: 27.73 Mbit/s

95th percentile per-packet one-way delay: 138.986 ms

Loss rate: 0.98%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-03-20 22:37:30

End at: 2018-03-20 22:38:00

Below is generated by plot.py at 2018-03-21 03:17:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.30 Mbit/s

95th percentile per-packet one-way delay: 143.340 ms

Loss rate: 0.97%

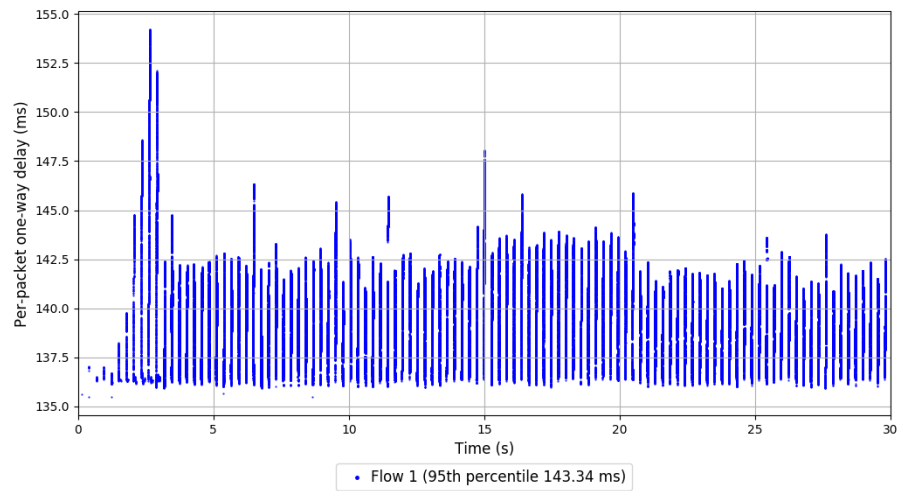
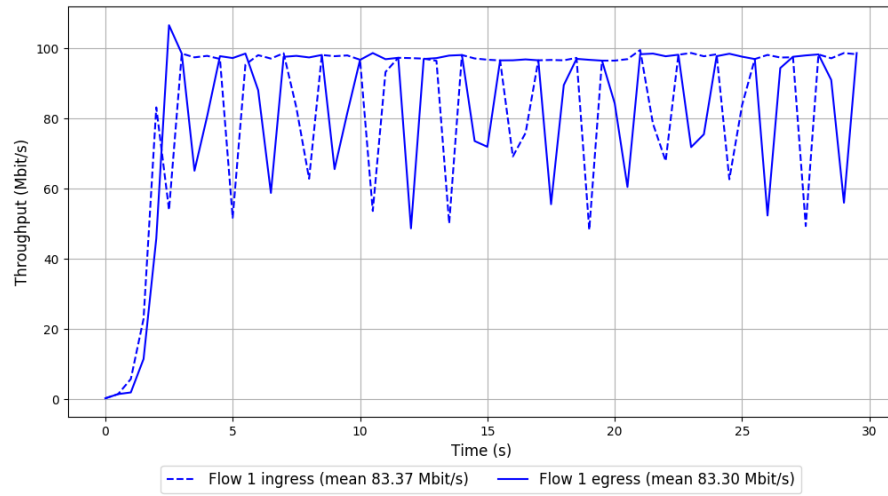
-- Flow 1:

Average throughput: 83.30 Mbit/s

95th percentile per-packet one-way delay: 143.340 ms

Loss rate: 0.97%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-03-20 22:53:31

End at: 2018-03-20 22:54:01

Below is generated by plot.py at 2018-03-21 03:17:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.12 Mbit/s

95th percentile per-packet one-way delay: 139.640 ms

Loss rate: 0.98%

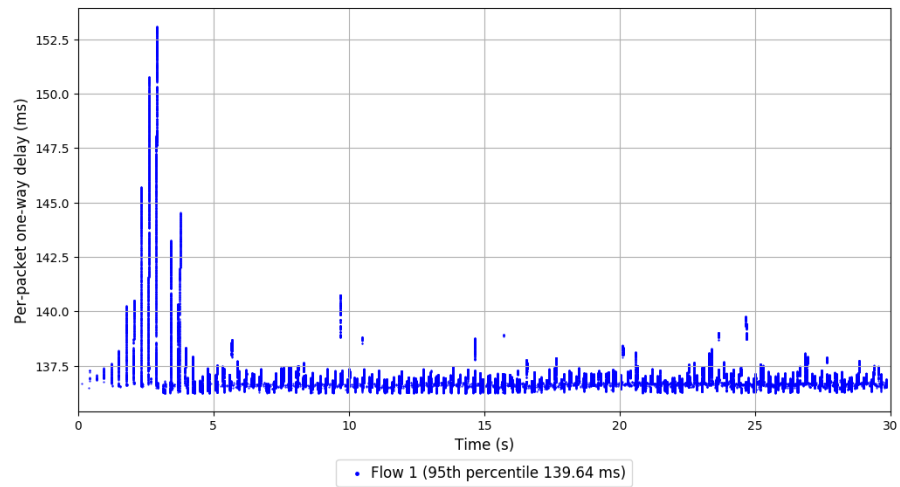
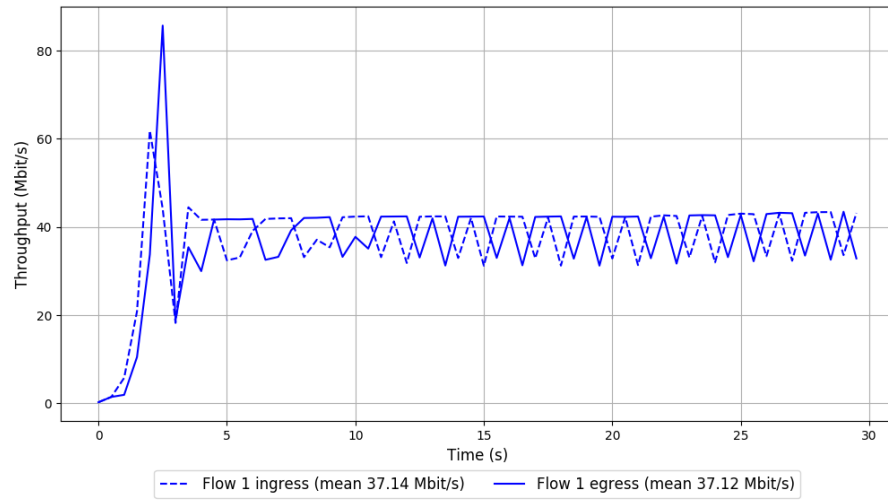
-- Flow 1:

Average throughput: 37.12 Mbit/s

95th percentile per-packet one-way delay: 139.640 ms

Loss rate: 0.98%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-03-20 23:09:06

End at: 2018-03-20 23:09:36

Below is generated by plot.py at 2018-03-21 03:17:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.98 Mbit/s

95th percentile per-packet one-way delay: 138.104 ms

Loss rate: 1.03%

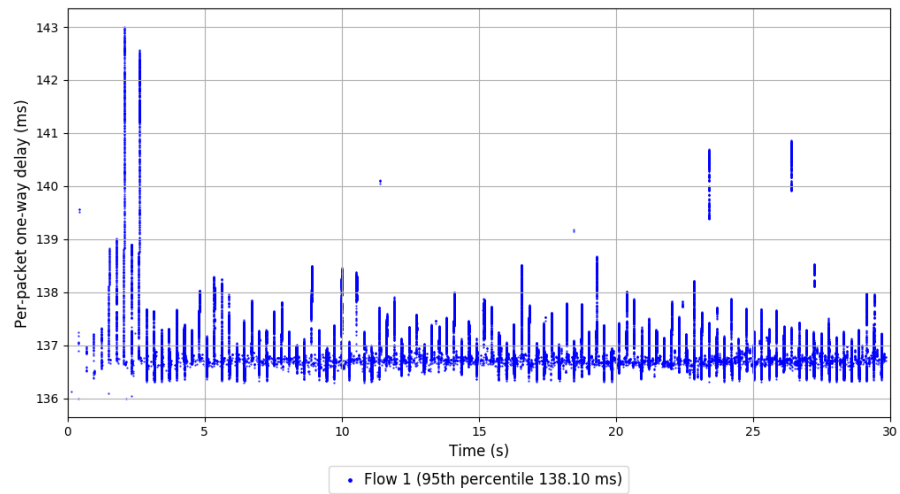
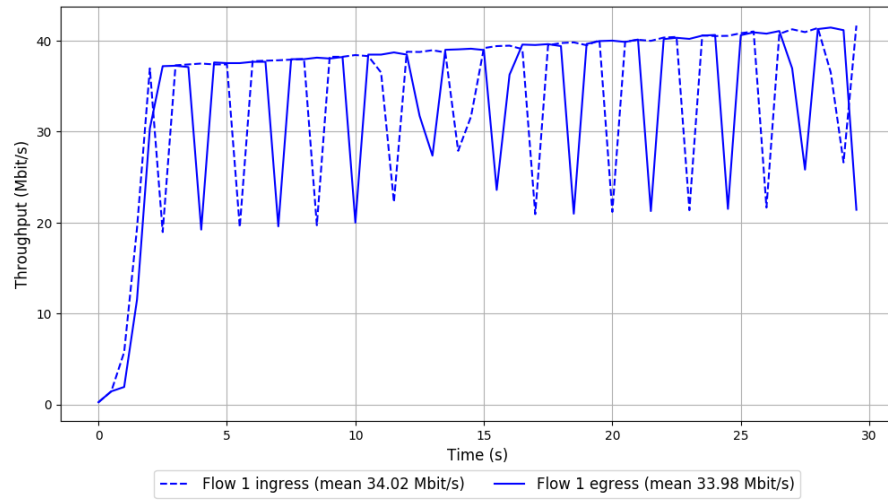
-- Flow 1:

Average throughput: 33.98 Mbit/s

95th percentile per-packet one-way delay: 138.104 ms

Loss rate: 1.03%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-03-20 23:24:57

End at: 2018-03-20 23:25:27

Below is generated by plot.py at 2018-03-21 03:17:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.67 Mbit/s

95th percentile per-packet one-way delay: 140.602 ms

Loss rate: 0.98%

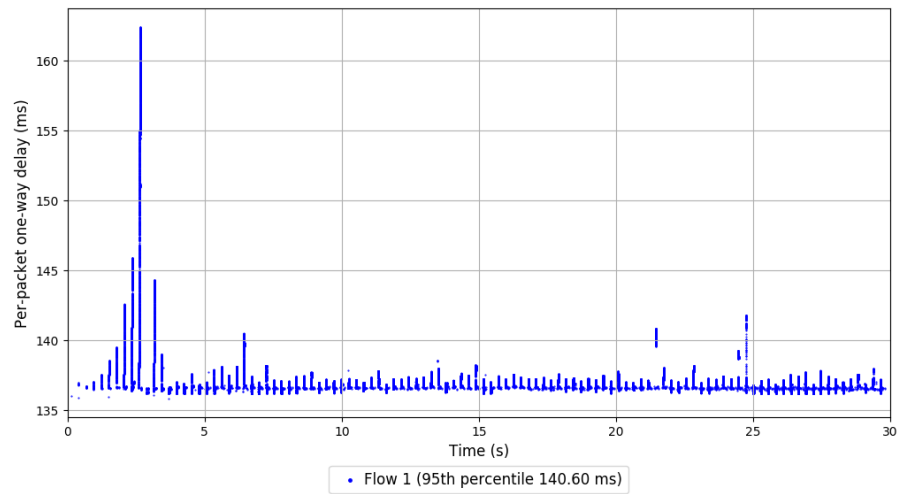
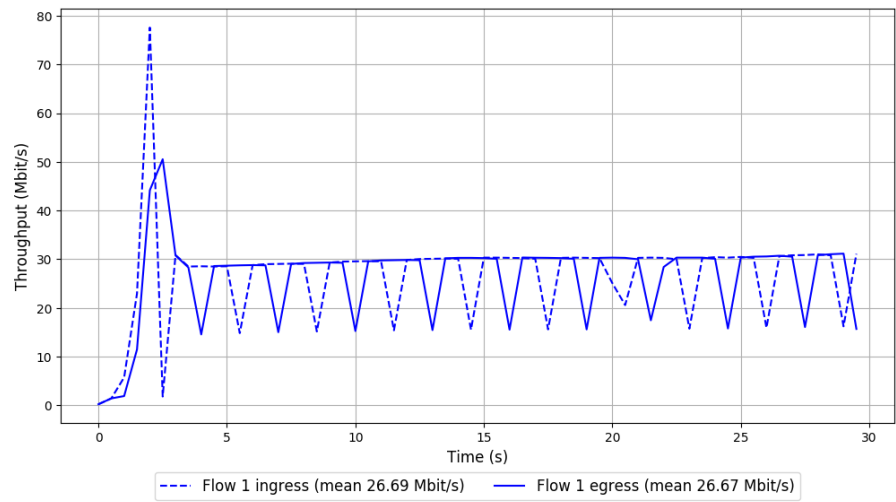
-- Flow 1:

Average throughput: 26.67 Mbit/s

95th percentile per-packet one-way delay: 140.602 ms

Loss rate: 0.98%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-03-20 23:40:51

End at: 2018-03-20 23:41:21

Below is generated by plot.py at 2018-03-21 03:17:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.97 Mbit/s

95th percentile per-packet one-way delay: 138.783 ms

Loss rate: 0.98%

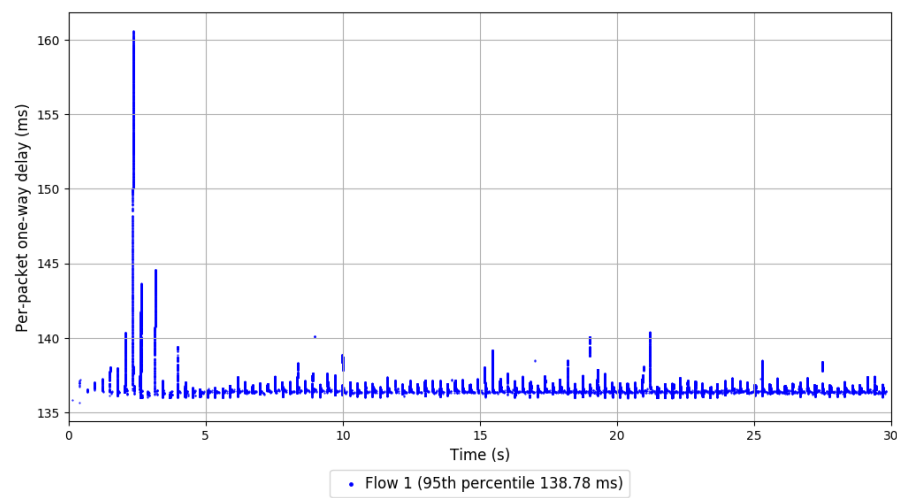
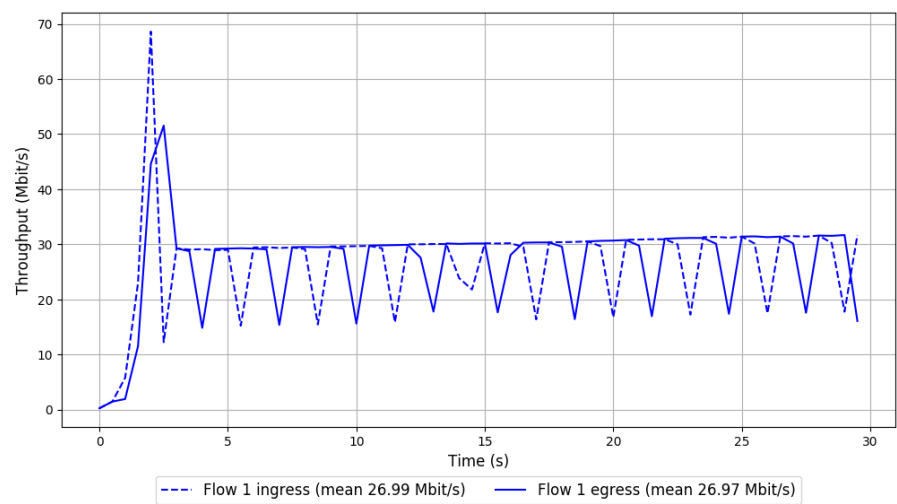
-- Flow 1:

Average throughput: 26.97 Mbit/s

95th percentile per-packet one-way delay: 138.783 ms

Loss rate: 0.98%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-03-20 23:56:48

End at: 2018-03-20 23:57:18

Below is generated by plot.py at 2018-03-21 03:17:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.42 Mbit/s

95th percentile per-packet one-way delay: 143.004 ms

Loss rate: 0.98%

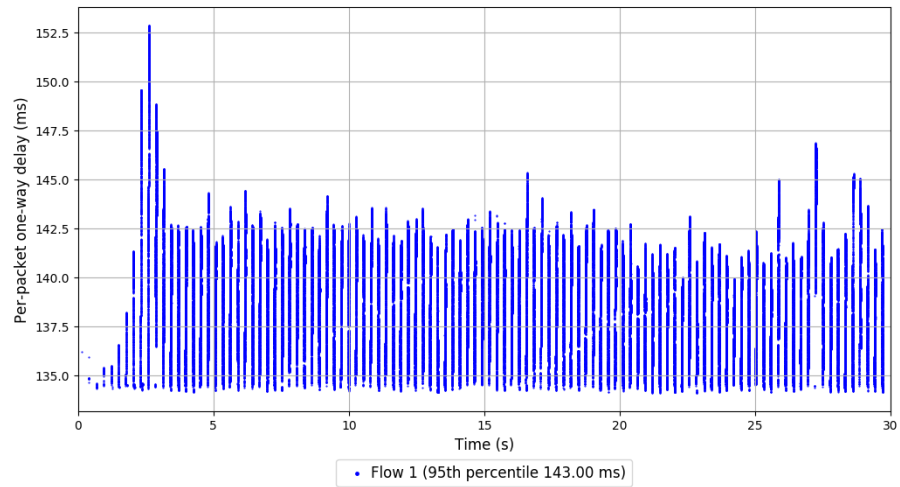
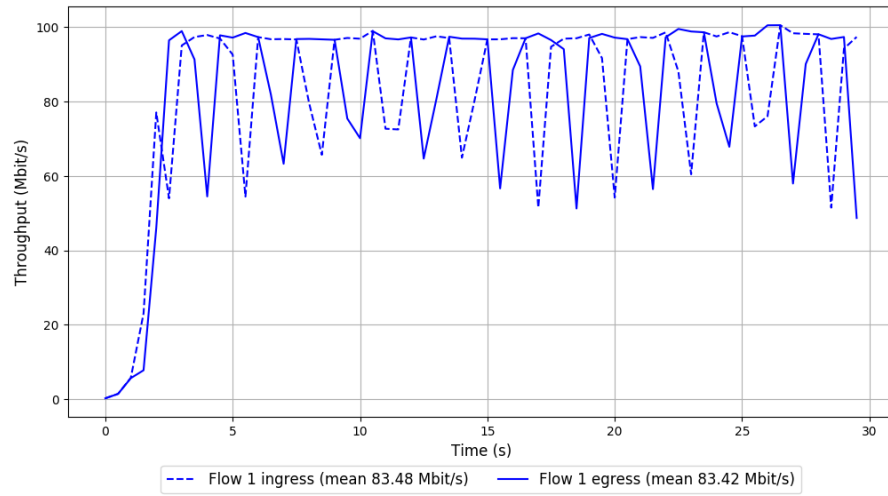
-- Flow 1:

Average throughput: 83.42 Mbit/s

95th percentile per-packet one-way delay: 143.004 ms

Loss rate: 0.98%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-03-20 21:23:23

End at: 2018-03-20 21:23:53

Below is generated by plot.py at 2018-03-21 03:17:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.75 Mbit/s

95th percentile per-packet one-way delay: 156.891 ms

Loss rate: 0.00%

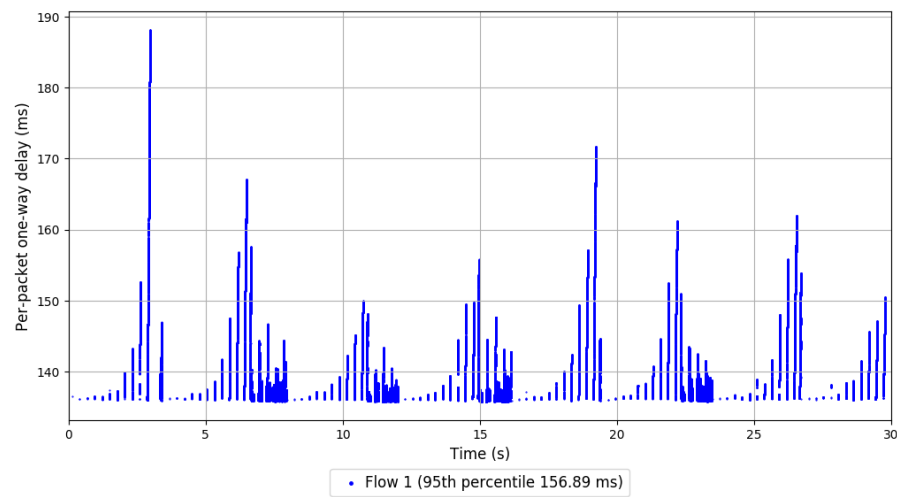
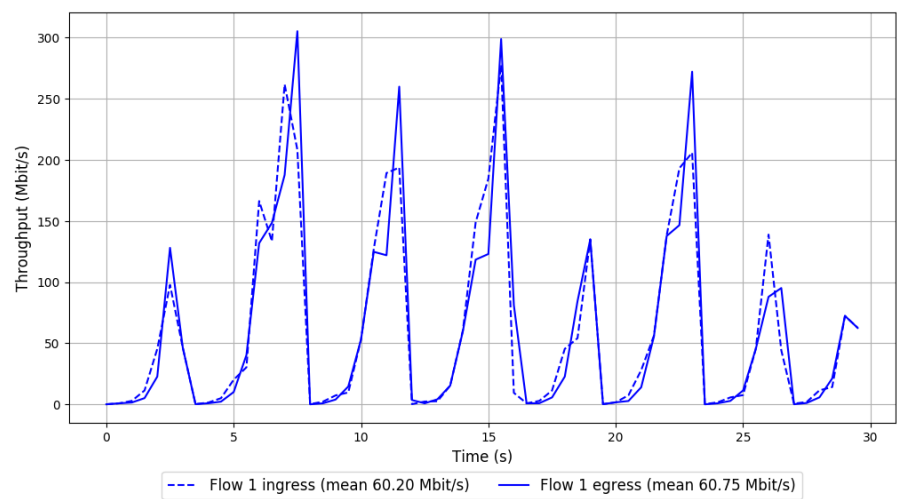
-- Flow 1:

Average throughput: 60.75 Mbit/s

95th percentile per-packet one-way delay: 156.891 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-03-20 21:39:10

End at: 2018-03-20 21:39:40

Below is generated by plot.py at 2018-03-21 03:17:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.04 Mbit/s

95th percentile per-packet one-way delay: 165.878 ms

Loss rate: 1.53%

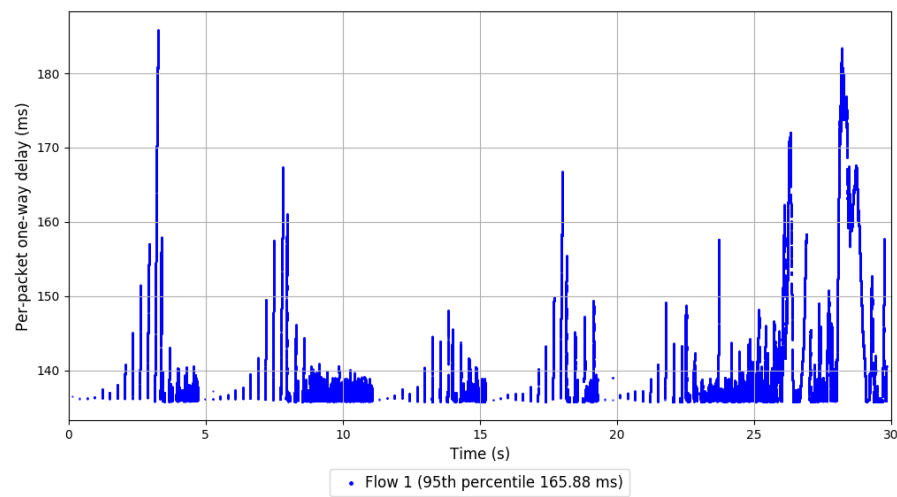
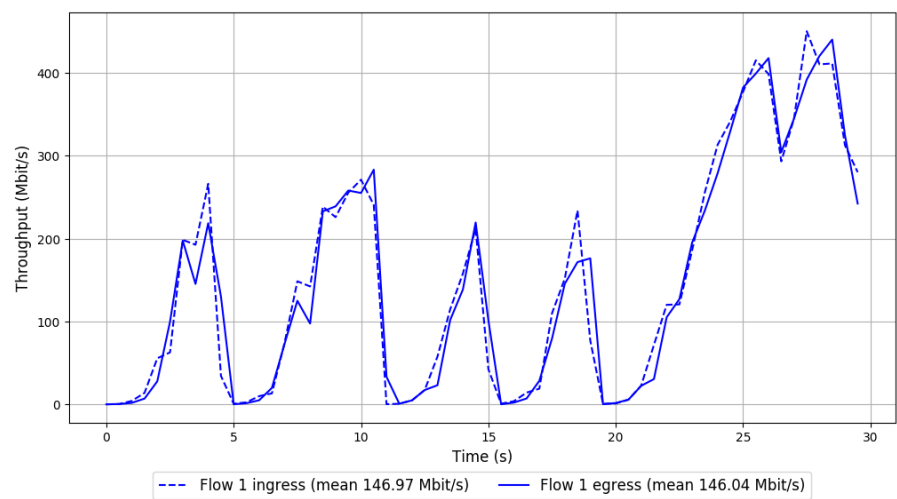
-- Flow 1:

Average throughput: 146.04 Mbit/s

95th percentile per-packet one-way delay: 165.878 ms

Loss rate: 1.53%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-03-20 21:54:48

End at: 2018-03-20 21:55:18

Below is generated by plot.py at 2018-03-21 03:17:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.32 Mbit/s

95th percentile per-packet one-way delay: 156.761 ms

Loss rate: 2.70%

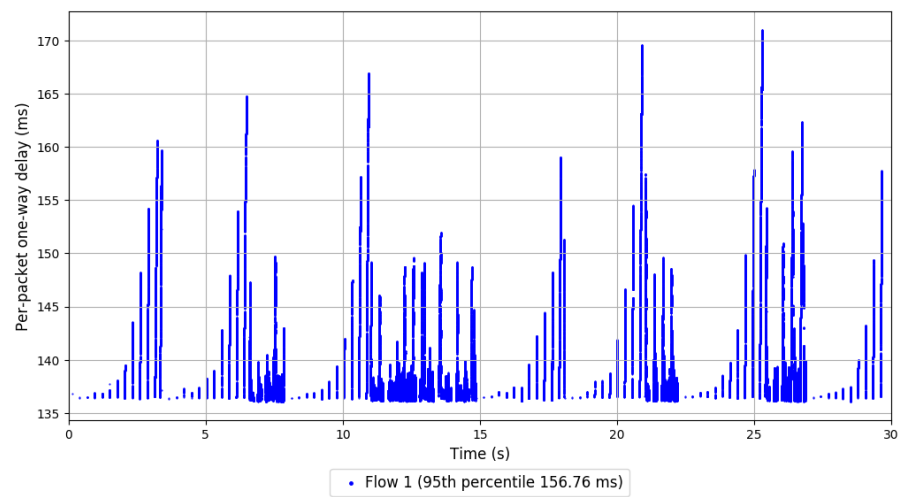
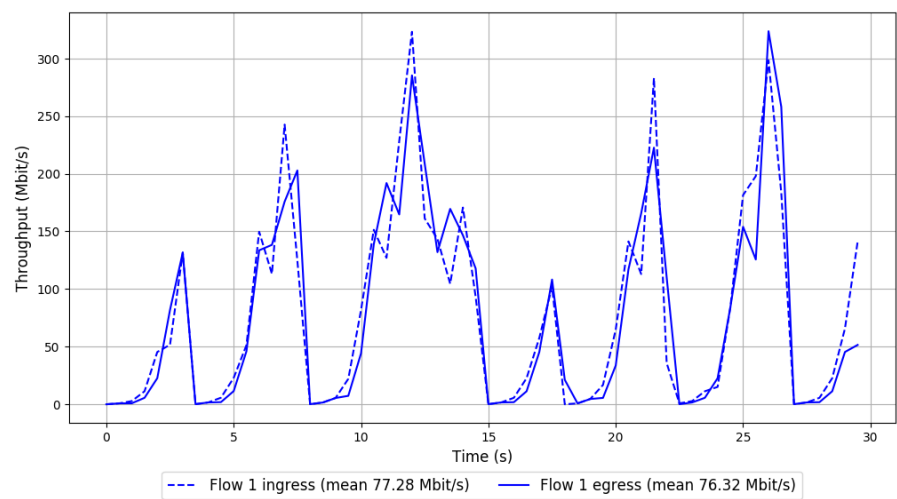
-- Flow 1:

Average throughput: 76.32 Mbit/s

95th percentile per-packet one-way delay: 156.761 ms

Loss rate: 2.70%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-03-20 22:10:54

End at: 2018-03-20 22:11:24

Below is generated by plot.py at 2018-03-21 03:17:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.85 Mbit/s

95th percentile per-packet one-way delay: 207.360 ms

Loss rate: 1.31%

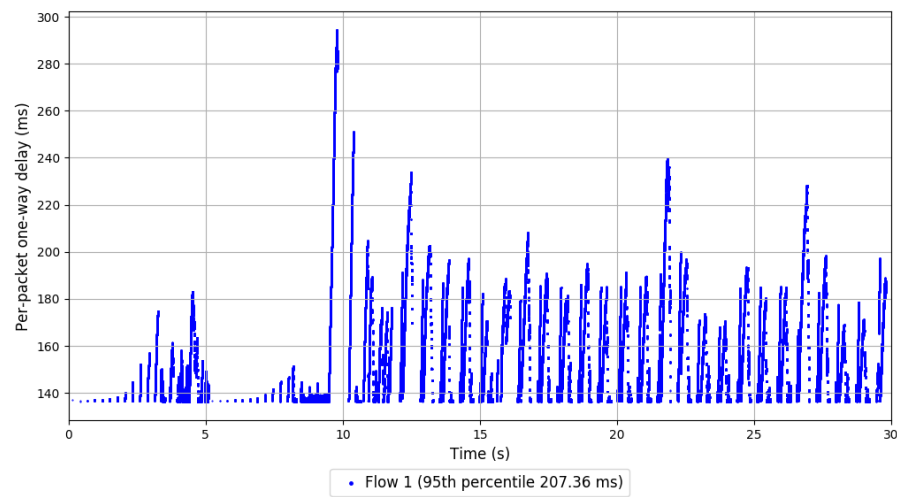
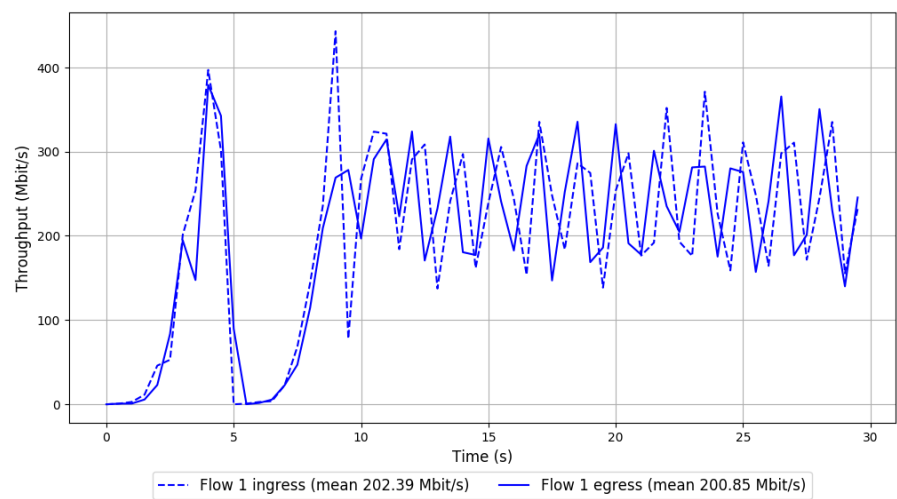
-- Flow 1:

Average throughput: 200.85 Mbit/s

95th percentile per-packet one-way delay: 207.360 ms

Loss rate: 1.31%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-03-20 22:26:59

End at: 2018-03-20 22:27:29

Below is generated by plot.py at 2018-03-21 03:17:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.25 Mbit/s

95th percentile per-packet one-way delay: 168.896 ms

Loss rate: 0.01%

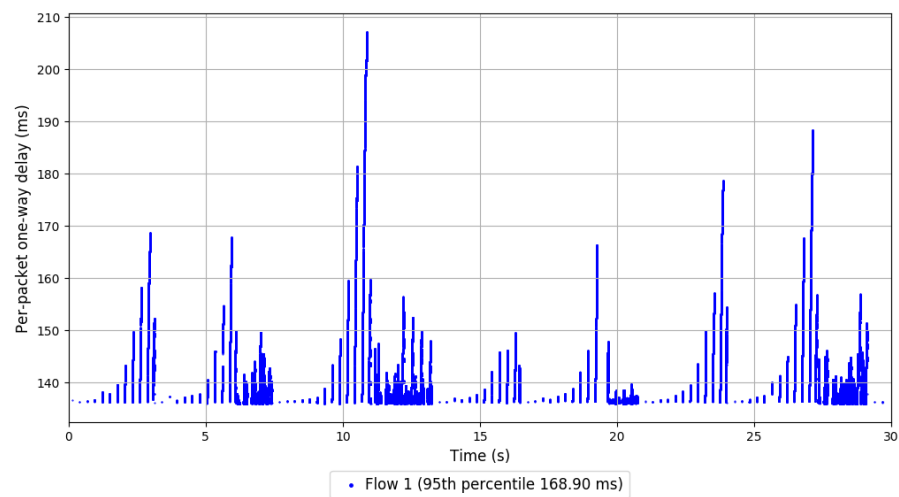
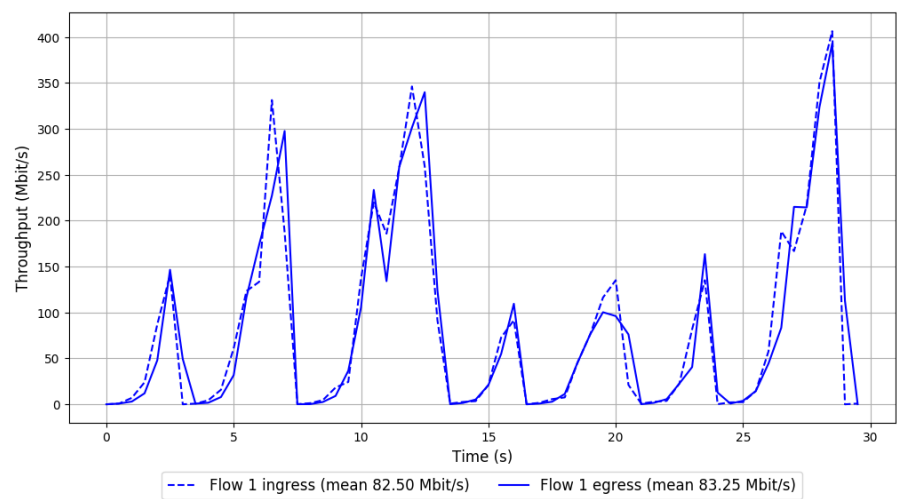
-- Flow 1:

Average throughput: 83.25 Mbit/s

95th percentile per-packet one-way delay: 168.896 ms

Loss rate: 0.01%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-03-20 22:42:49

End at: 2018-03-20 22:43:19

Below is generated by plot.py at 2018-03-21 03:17:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.64 Mbit/s

95th percentile per-packet one-way delay: 340.583 ms

Loss rate: 16.93%

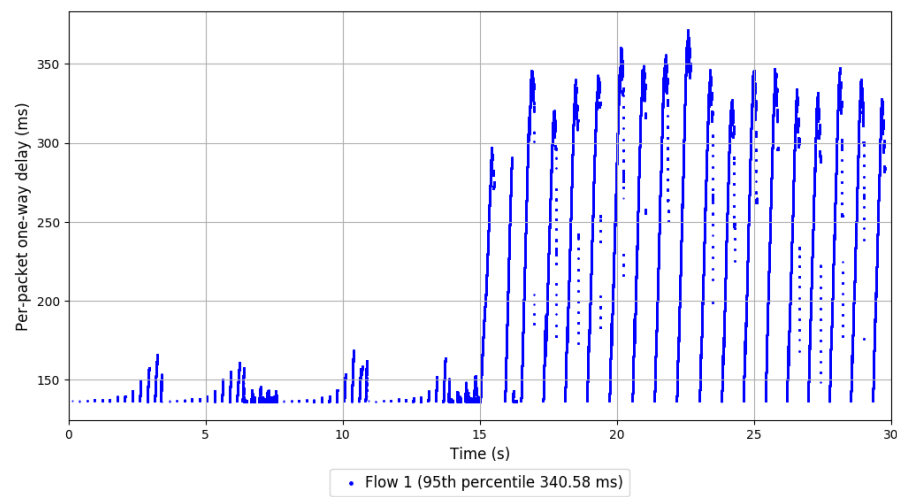
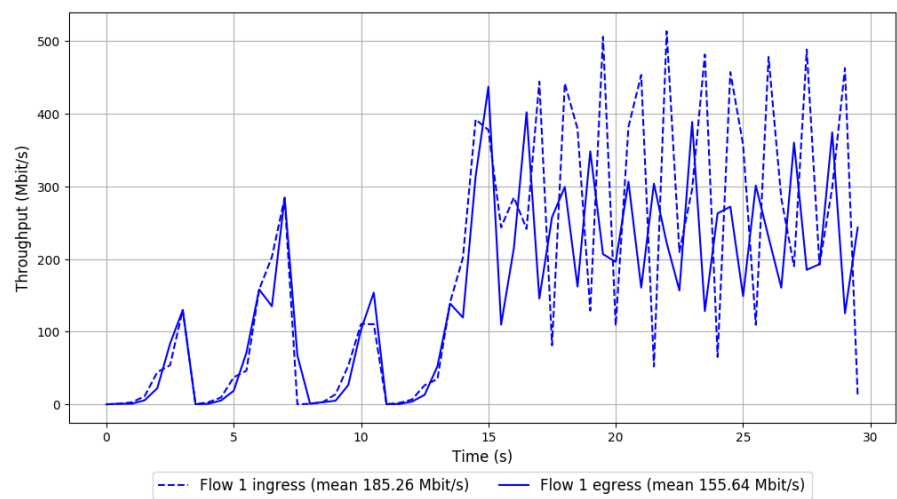
-- Flow 1:

Average throughput: 155.64 Mbit/s

95th percentile per-packet one-way delay: 340.583 ms

Loss rate: 16.93%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-03-20 22:58:36

End at: 2018-03-20 22:59:07

Below is generated by plot.py at 2018-03-21 03:18:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.83 Mbit/s

95th percentile per-packet one-way delay: 328.525 ms

Loss rate: 8.01%

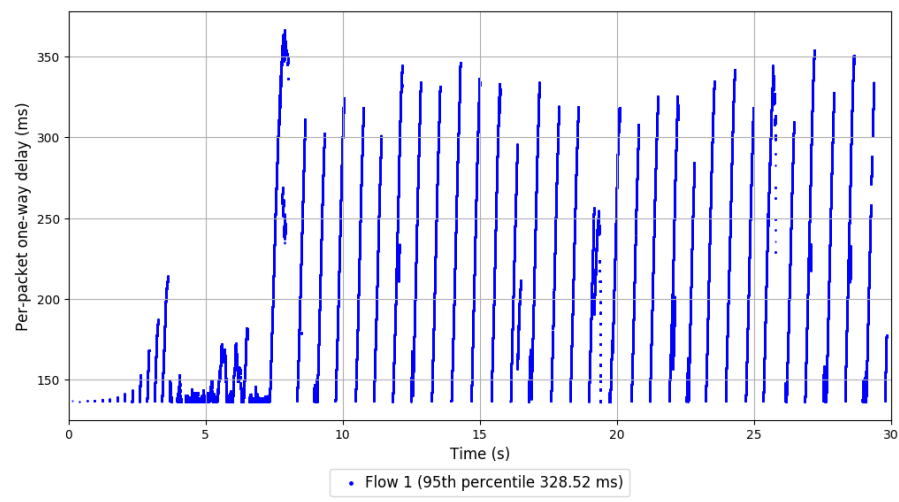
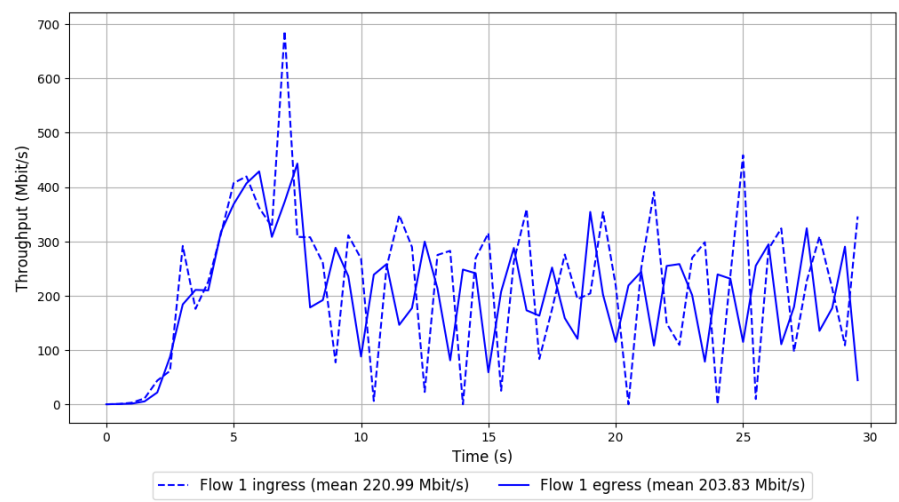
-- Flow 1:

Average throughput: 203.83 Mbit/s

95th percentile per-packet one-way delay: 328.525 ms

Loss rate: 8.01%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-03-20 23:14:32

End at: 2018-03-20 23:15:02

Below is generated by plot.py at 2018-03-21 03:18:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 147.24 Mbit/s

95th percentile per-packet one-way delay: 173.476 ms

Loss rate: 0.97%

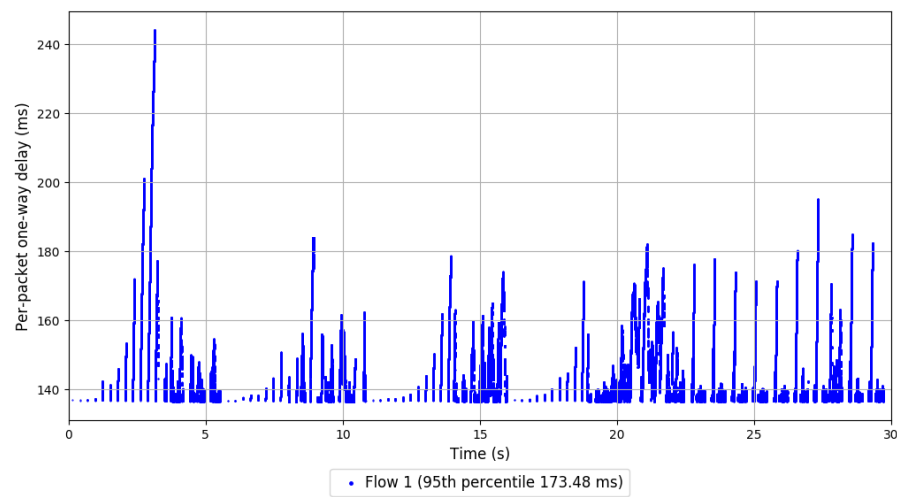
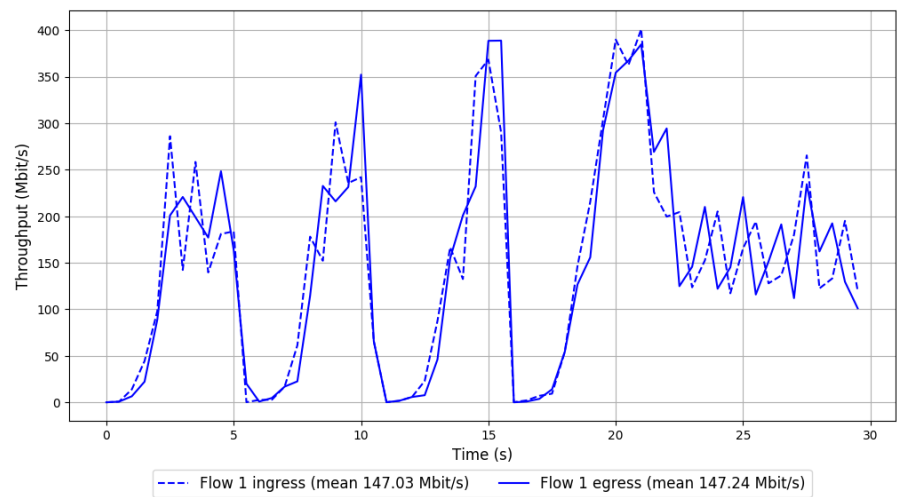
-- Flow 1:

Average throughput: 147.24 Mbit/s

95th percentile per-packet one-way delay: 173.476 ms

Loss rate: 0.97%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-03-20 23:30:14

End at: 2018-03-20 23:30:44

Below is generated by plot.py at 2018-03-21 03:18:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.89 Mbit/s

95th percentile per-packet one-way delay: 240.362 ms

Loss rate: 3.96%

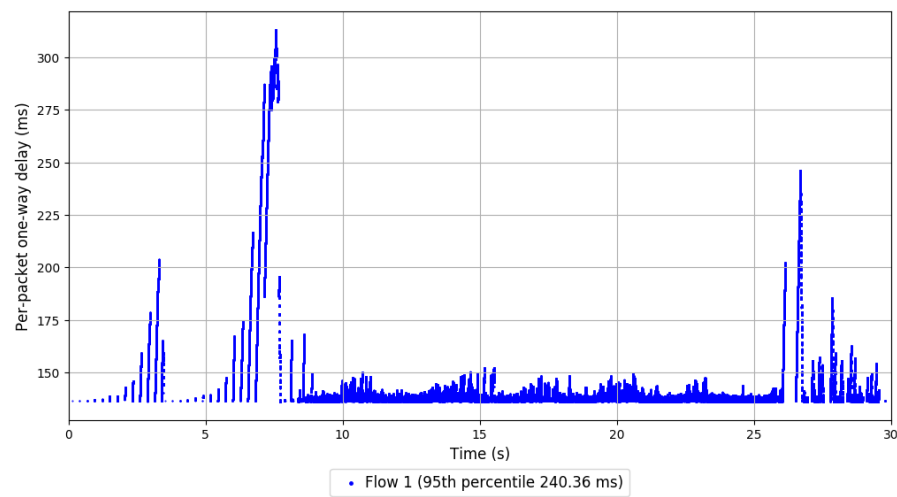
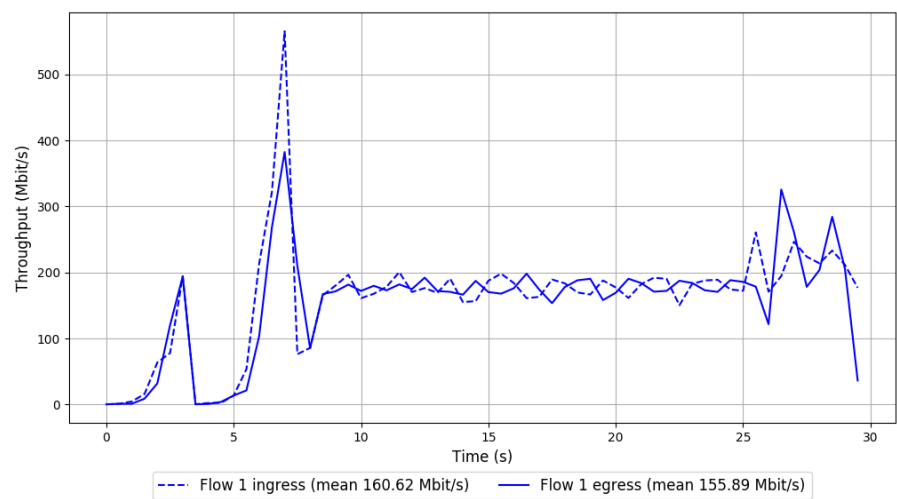
-- Flow 1:

Average throughput: 155.89 Mbit/s

95th percentile per-packet one-way delay: 240.362 ms

Loss rate: 3.96%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-03-20 23:46:13

End at: 2018-03-20 23:46:43

Below is generated by plot.py at 2018-03-21 03:18:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.60 Mbit/s

95th percentile per-packet one-way delay: 166.106 ms

Loss rate: 4.68%

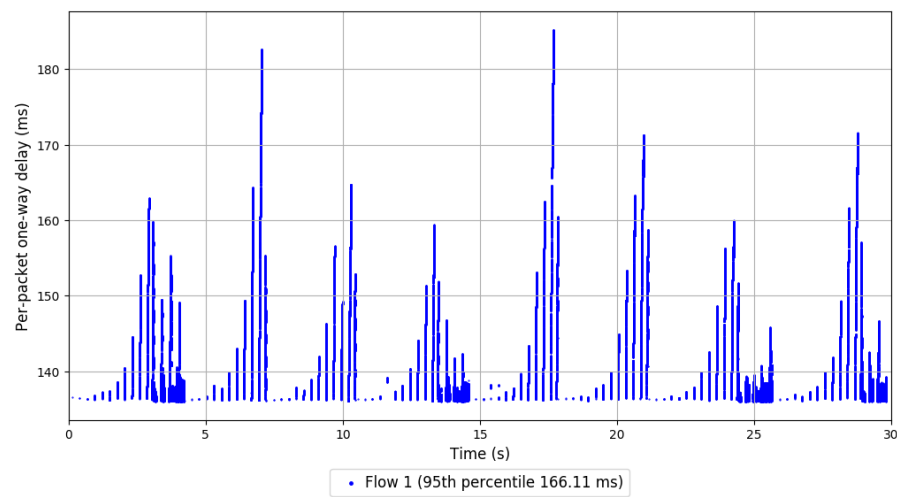
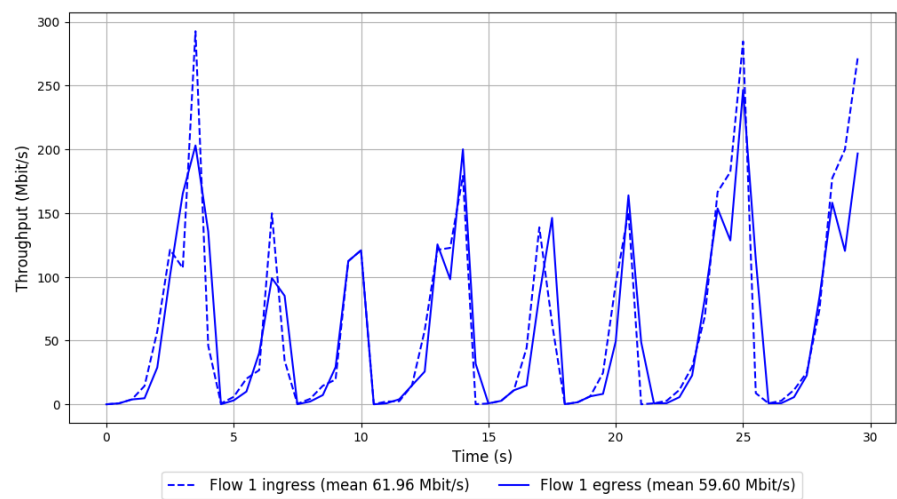
-- Flow 1:

Average throughput: 59.60 Mbit/s

95th percentile per-packet one-way delay: 166.106 ms

Loss rate: 4.68%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-03-20 21:24:11

End at: 2018-03-20 21:24:41

Below is generated by plot.py at 2018-03-21 03:19:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.55 Mbit/s

95th percentile per-packet one-way delay: 136.000 ms

Loss rate: 0.96%

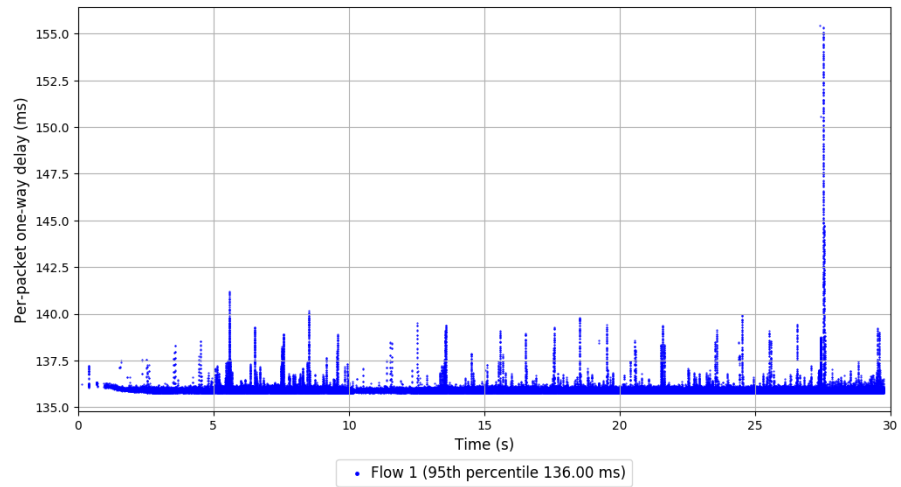
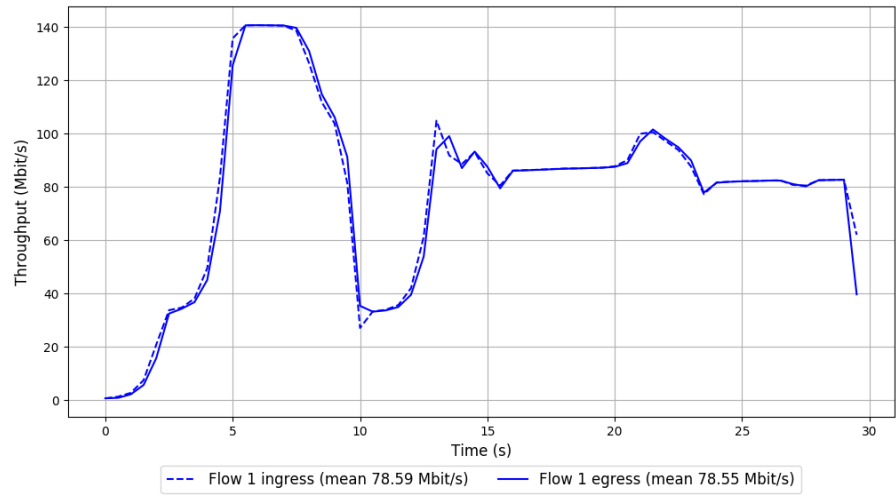
-- Flow 1:

Average throughput: 78.55 Mbit/s

95th percentile per-packet one-way delay: 136.000 ms

Loss rate: 0.96%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-03-20 21:40:04

End at: 2018-03-20 21:40:34

Below is generated by plot.py at 2018-03-21 03:19:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.91 Mbit/s

95th percentile per-packet one-way delay: 135.899 ms

Loss rate: 0.43%

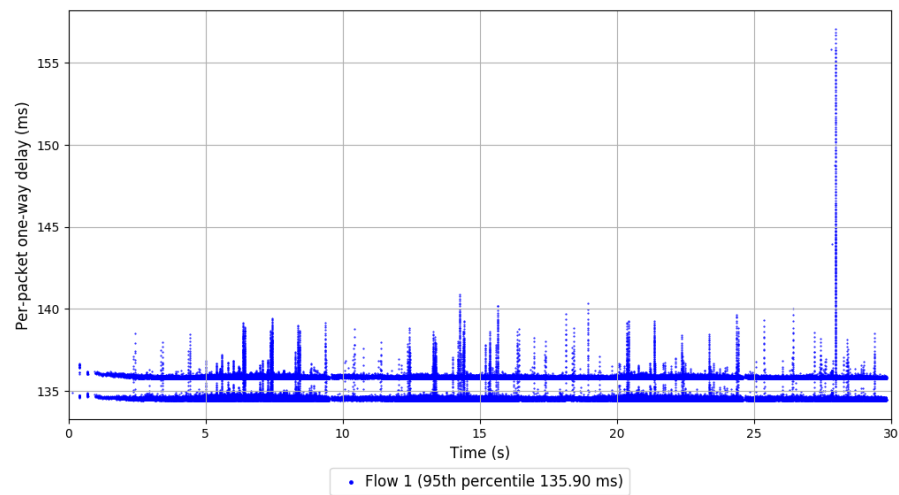
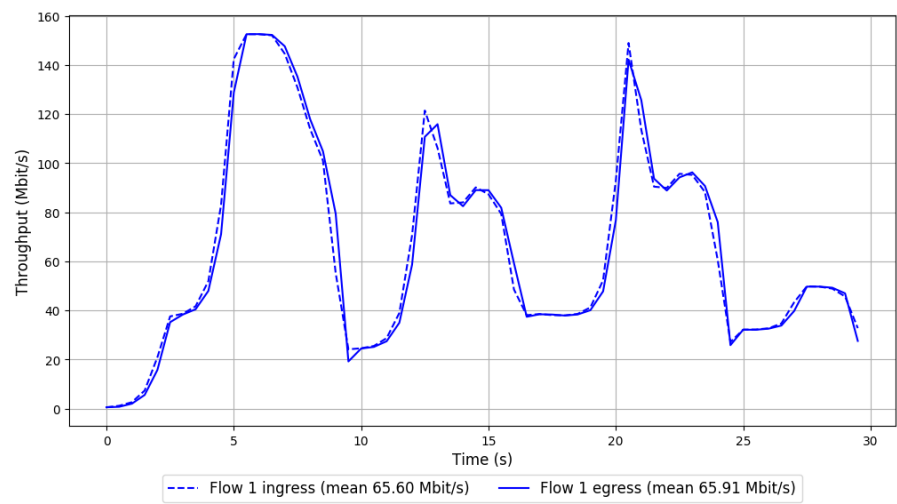
-- Flow 1:

Average throughput: 65.91 Mbit/s

95th percentile per-packet one-way delay: 135.899 ms

Loss rate: 0.43%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-03-20 21:55:36

End at: 2018-03-20 21:56:06

Below is generated by plot.py at 2018-03-21 03:19:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.16 Mbit/s

95th percentile per-packet one-way delay: 136.206 ms

Loss rate: 0.24%

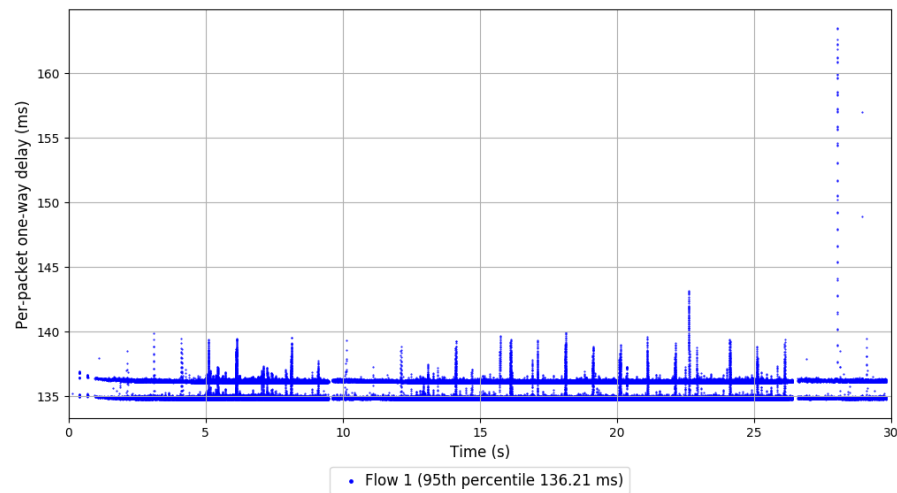
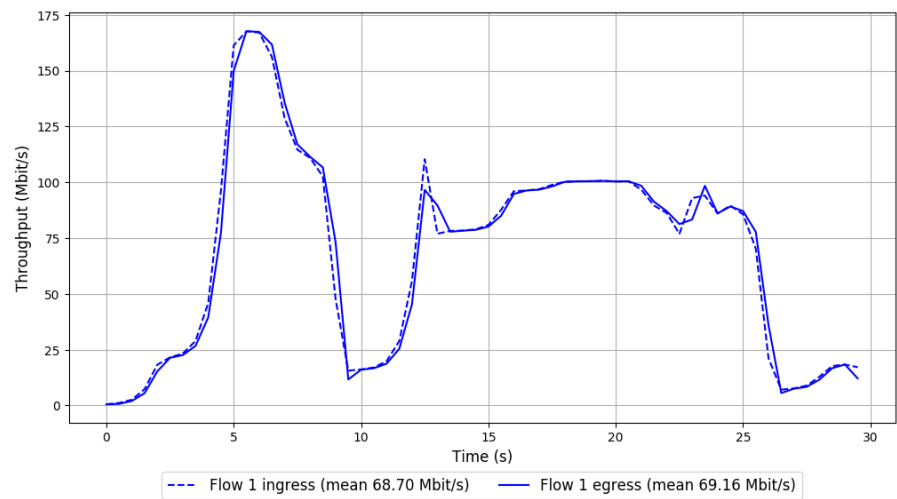
-- Flow 1:

Average throughput: 69.16 Mbit/s

95th percentile per-packet one-way delay: 136.206 ms

Loss rate: 0.24%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-03-20 22:11:51

End at: 2018-03-20 22:12:21

Below is generated by plot.py at 2018-03-21 03:19:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.56 Mbit/s

95th percentile per-packet one-way delay: 136.418 ms

Loss rate: 0.99%

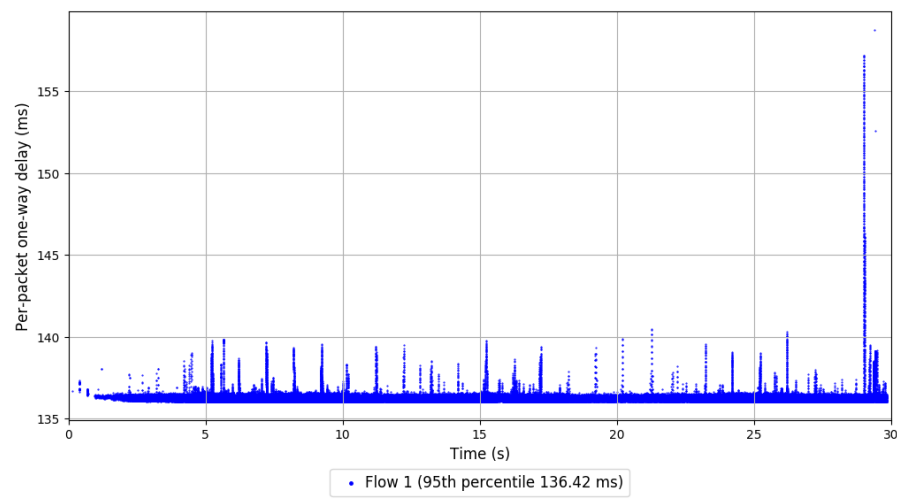
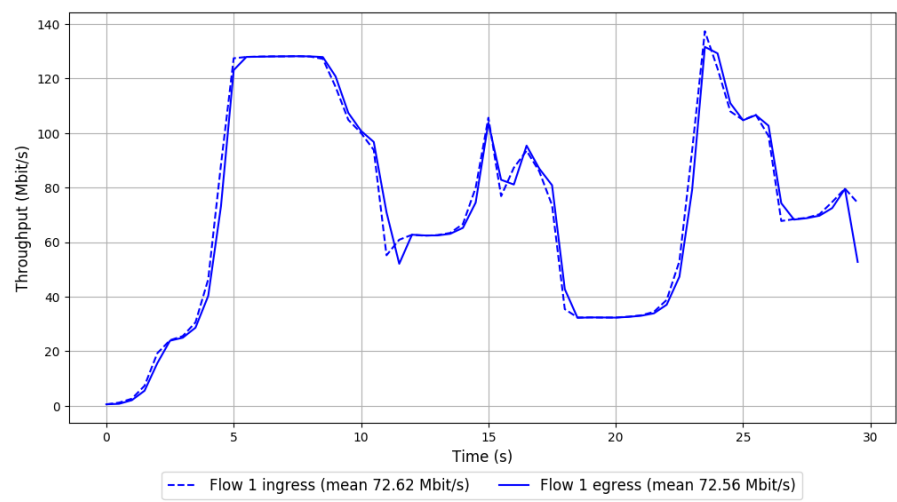
-- Flow 1:

Average throughput: 72.56 Mbit/s

95th percentile per-packet one-way delay: 136.418 ms

Loss rate: 0.99%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-03-20 22:27:47

End at: 2018-03-20 22:28:17

Below is generated by plot.py at 2018-03-21 03:20:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.28 Mbit/s

95th percentile per-packet one-way delay: 136.034 ms

Loss rate: 0.95%

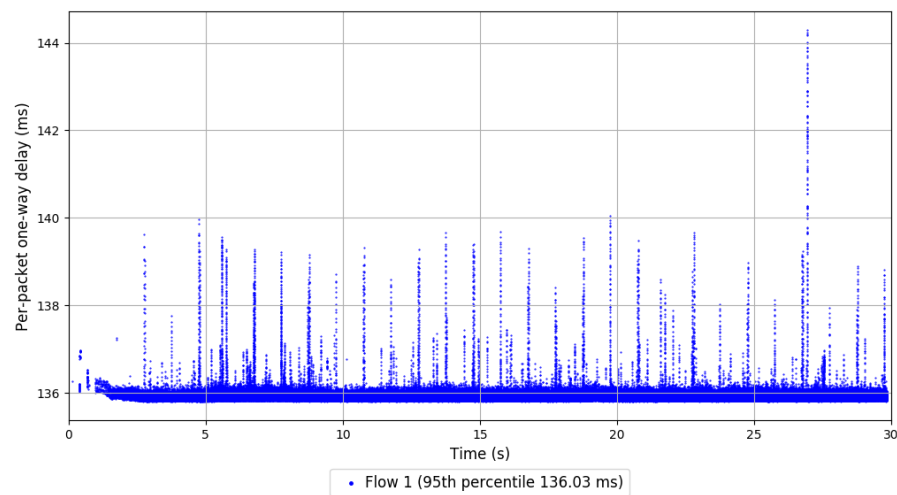
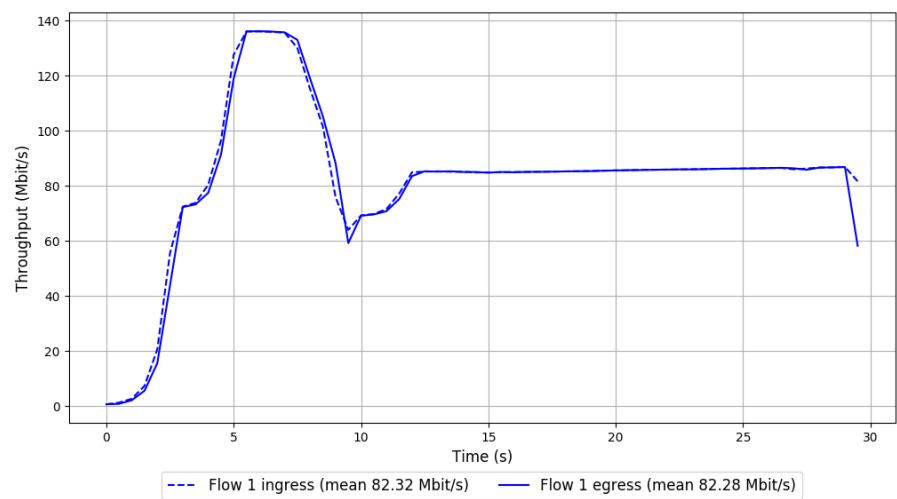
-- Flow 1:

Average throughput: 82.28 Mbit/s

95th percentile per-packet one-way delay: 136.034 ms

Loss rate: 0.95%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-03-20 22:43:44

End at: 2018-03-20 22:44:14

Below is generated by plot.py at 2018-03-21 03:20:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.19 Mbit/s

95th percentile per-packet one-way delay: 136.422 ms

Loss rate: 1.58%

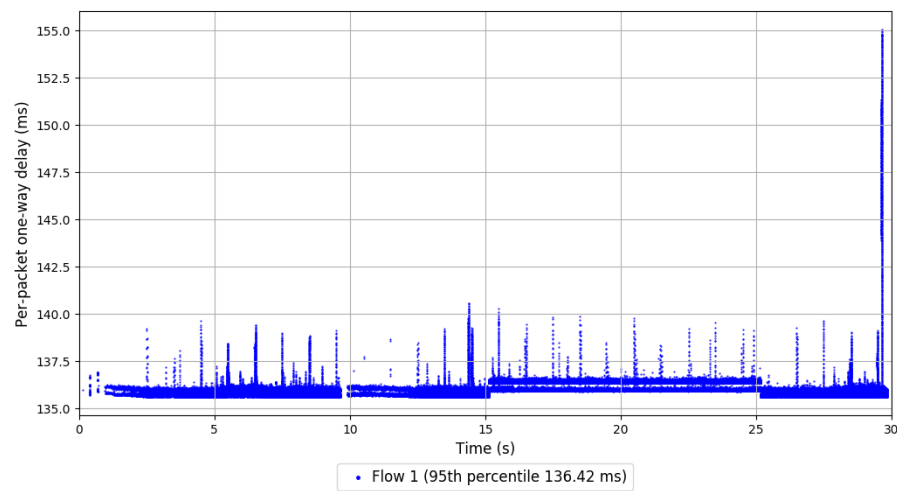
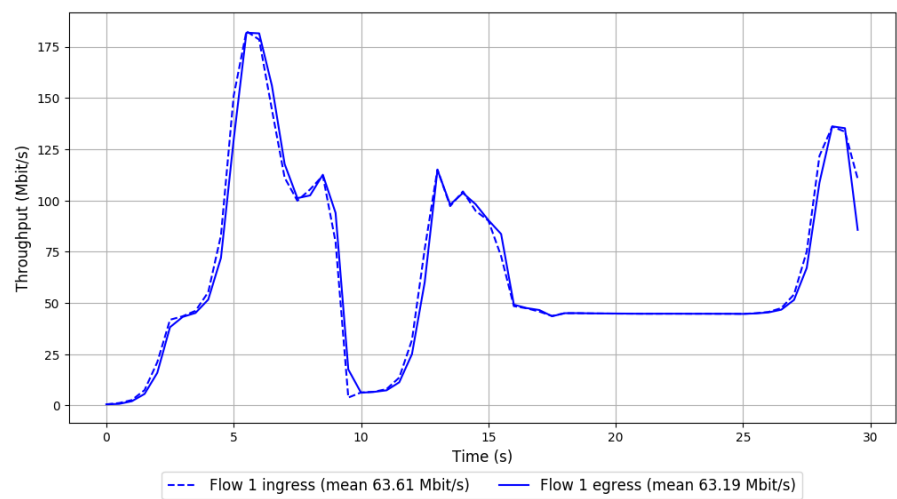
-- Flow 1:

Average throughput: 63.19 Mbit/s

95th percentile per-packet one-way delay: 136.422 ms

Loss rate: 1.58%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-03-20 22:59:35

End at: 2018-03-20 23:00:05

Below is generated by plot.py at 2018-03-21 03:20:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.12 Mbit/s

95th percentile per-packet one-way delay: 136.434 ms

Loss rate: 0.36%

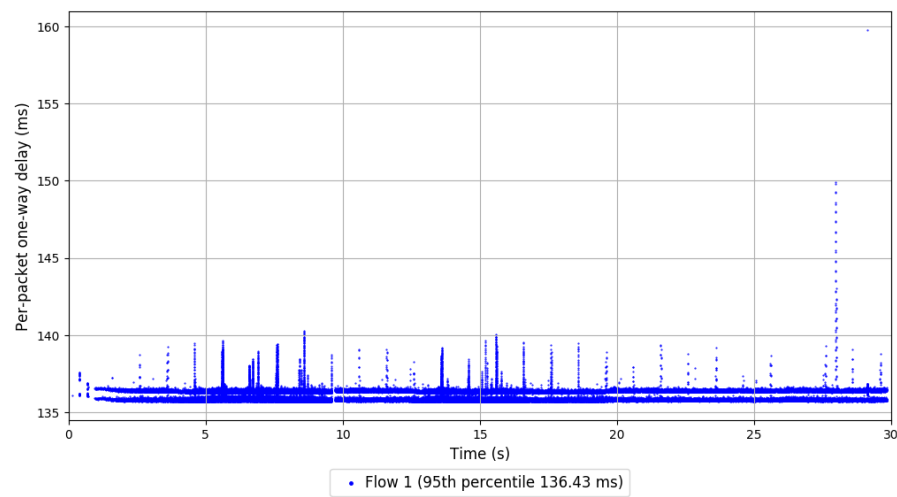
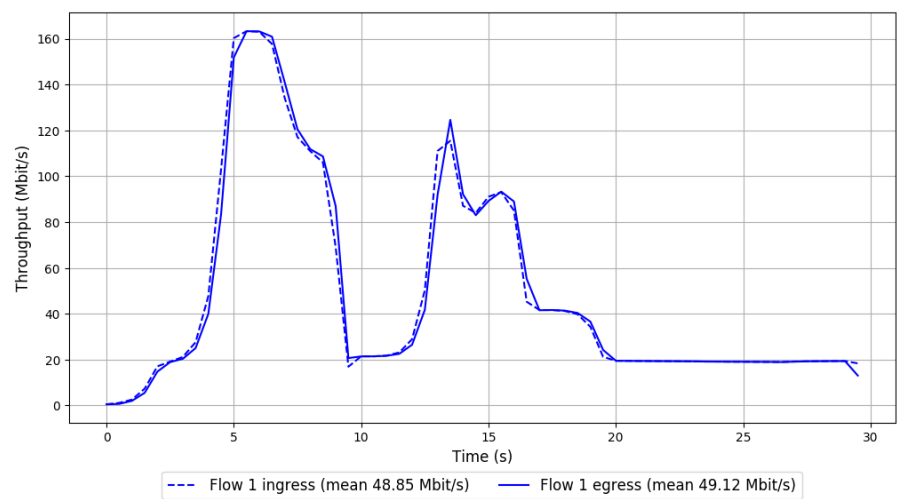
-- Flow 1:

Average throughput: 49.12 Mbit/s

95th percentile per-packet one-way delay: 136.434 ms

Loss rate: 0.36%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-03-20 23:15:26

End at: 2018-03-20 23:15:56

Below is generated by plot.py at 2018-03-21 03:20:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.33 Mbit/s

95th percentile per-packet one-way delay: 136.679 ms

Loss rate: 0.38%

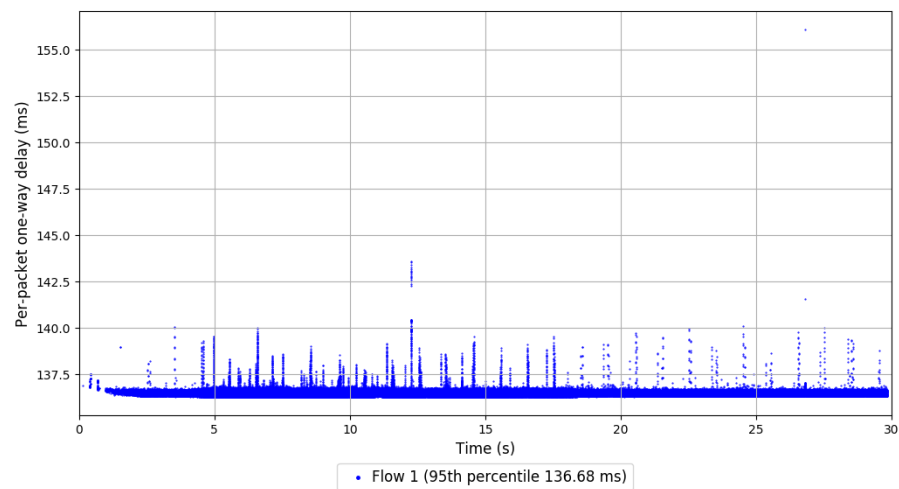
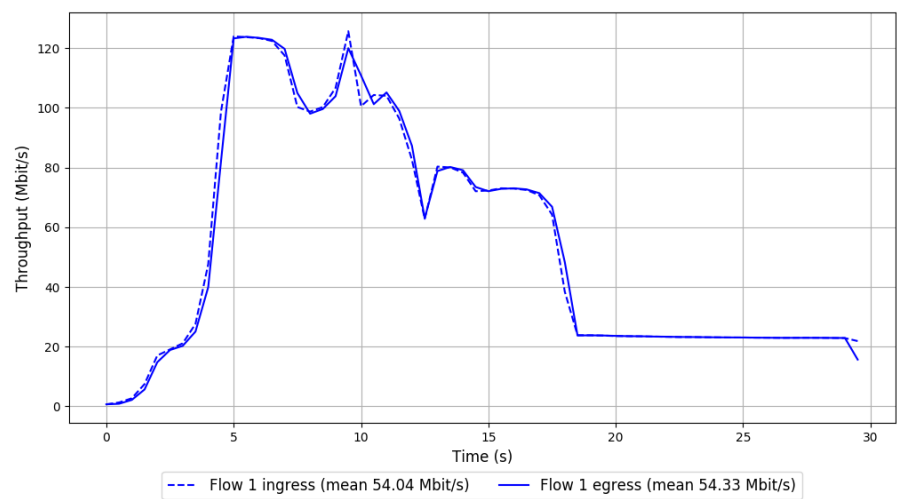
-- Flow 1:

Average throughput: 54.33 Mbit/s

95th percentile per-packet one-way delay: 136.679 ms

Loss rate: 0.38%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-03-20 23:31:08

End at: 2018-03-20 23:31:39

Below is generated by plot.py at 2018-03-21 03:21:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.86 Mbit/s

95th percentile per-packet one-way delay: 136.410 ms

Loss rate: 0.69%

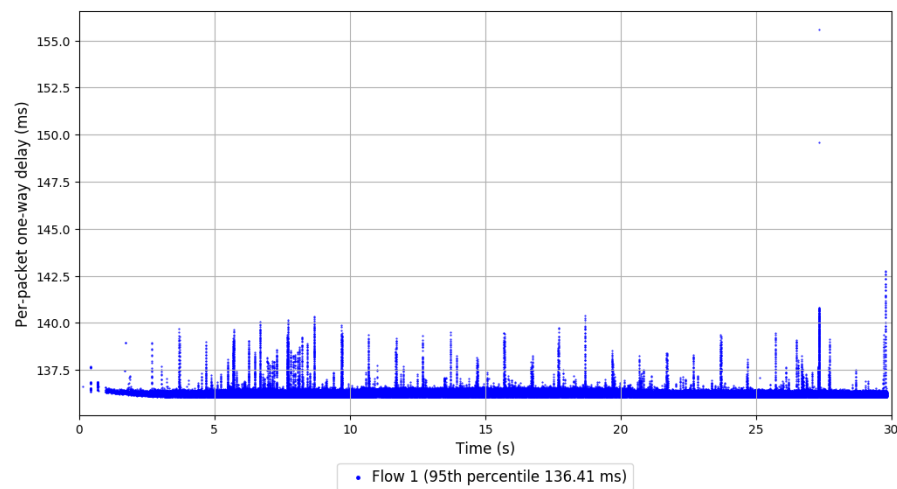
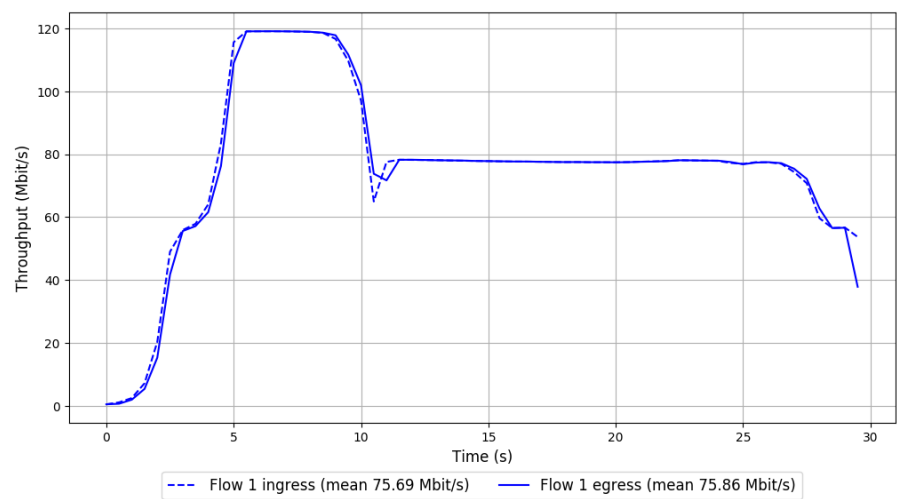
-- Flow 1:

Average throughput: 75.86 Mbit/s

95th percentile per-packet one-way delay: 136.410 ms

Loss rate: 0.69%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-03-20 23:47:00

End at: 2018-03-20 23:47:30

Below is generated by plot.py at 2018-03-21 03:21:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.36 Mbit/s

95th percentile per-packet one-way delay: 136.445 ms

Loss rate: 0.23%

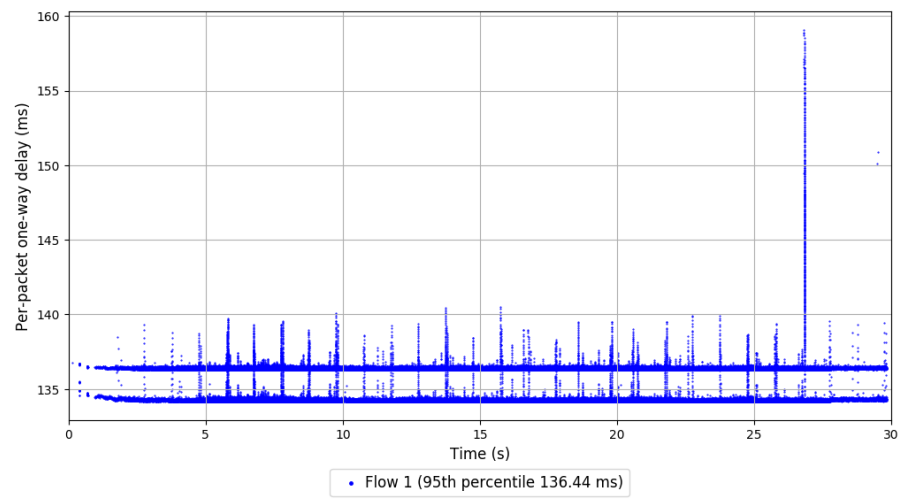
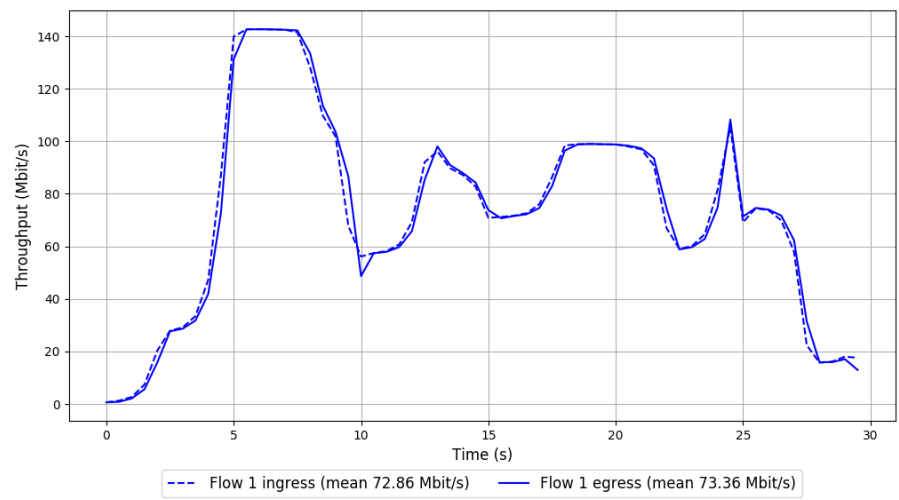
-- Flow 1:

Average throughput: 73.36 Mbit/s

95th percentile per-packet one-way delay: 136.445 ms

Loss rate: 0.23%

Run 10: Report of Copa — Data Link

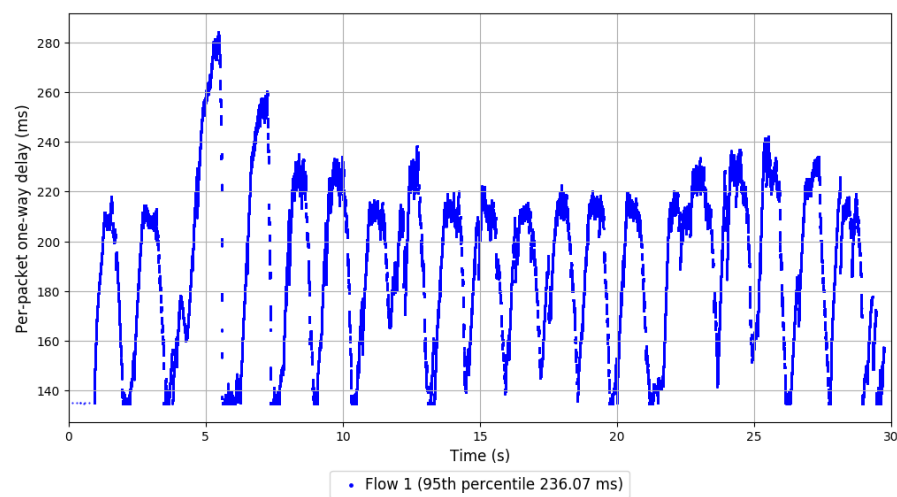
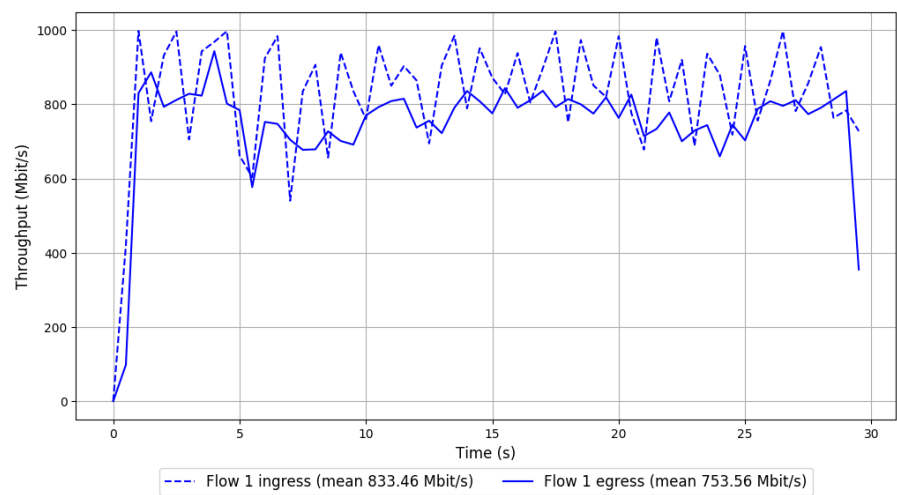


```
Run 1: Statistics of FillP

Start at: 2018-03-20 21:30:49
End at: 2018-03-20 21:31:19

# Below is generated by plot.py at 2018-03-21 03:33:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 753.56 Mbit/s
95th percentile per-packet one-way delay: 236.067 ms
Loss rate: 10.41%
-- Flow 1:
Average throughput: 753.56 Mbit/s
95th percentile per-packet one-way delay: 236.067 ms
Loss rate: 10.41%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-03-20 21:46:43

End at: 2018-03-20 21:47:13

Below is generated by plot.py at 2018-03-21 03:33:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 770.67 Mbit/s

95th percentile per-packet one-way delay: 216.301 ms

Loss rate: 8.39%

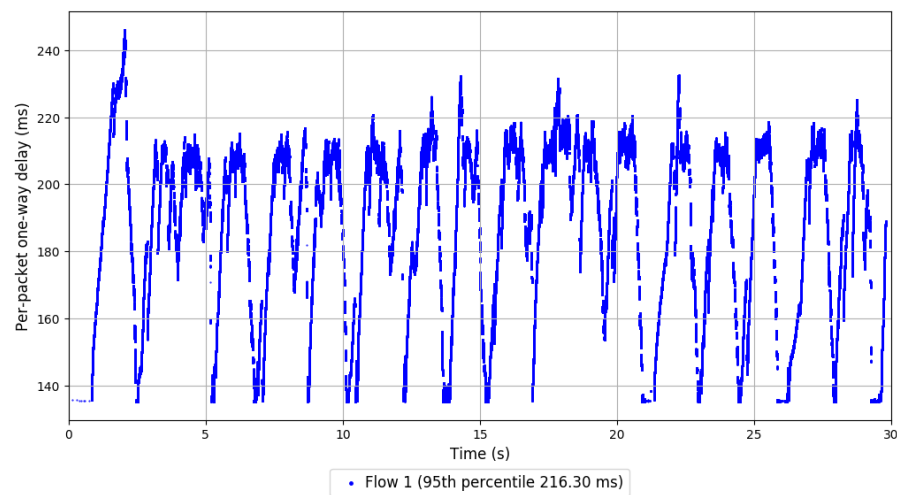
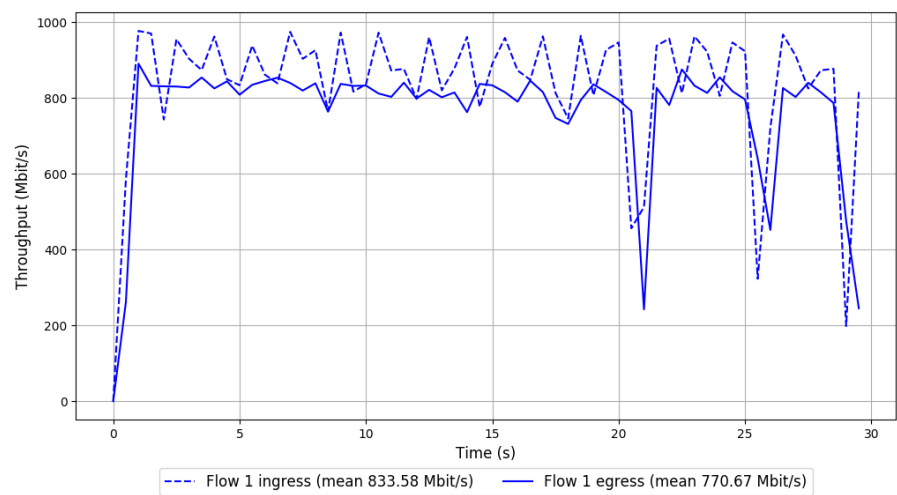
-- Flow 1:

Average throughput: 770.67 Mbit/s

95th percentile per-packet one-way delay: 216.301 ms

Loss rate: 8.39%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-03-20 22:02:17

End at: 2018-03-20 22:02:47

Below is generated by plot.py at 2018-03-21 03:33:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 747.94 Mbit/s

95th percentile per-packet one-way delay: 244.281 ms

Loss rate: 10.44%

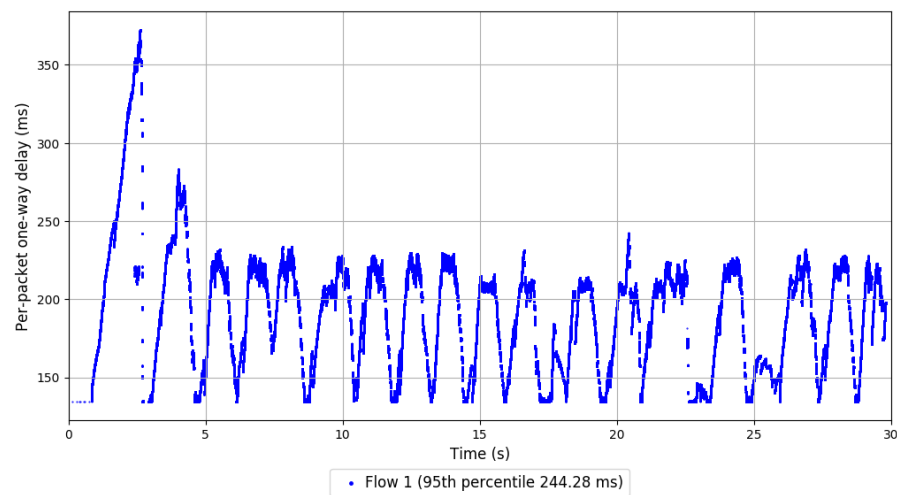
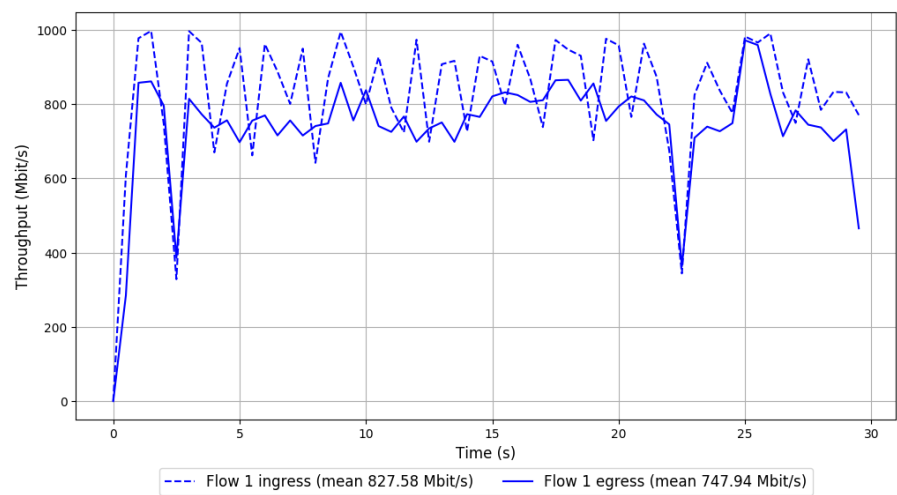
-- Flow 1:

Average throughput: 747.94 Mbit/s

95th percentile per-packet one-way delay: 244.281 ms

Loss rate: 10.44%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-03-20 22:18:32

End at: 2018-03-20 22:19:02

Below is generated by plot.py at 2018-03-21 03:33:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 716.05 Mbit/s

95th percentile per-packet one-way delay: 233.415 ms

Loss rate: 11.56%

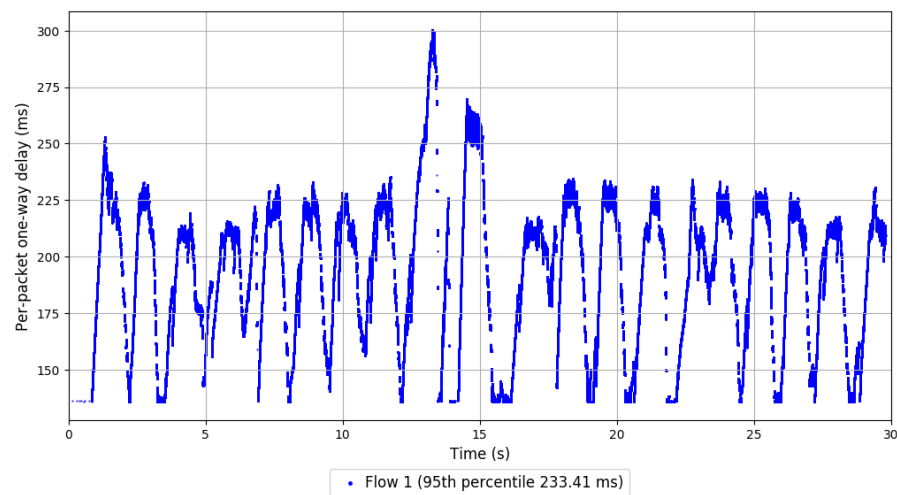
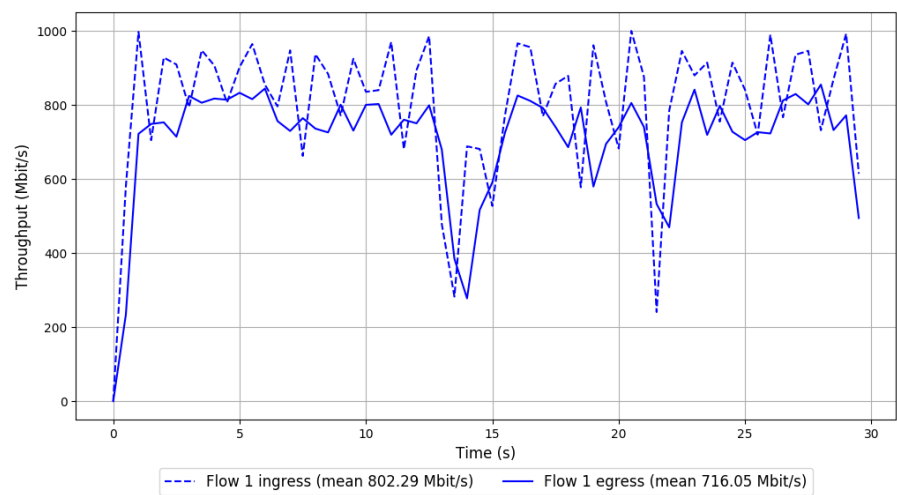
-- Flow 1:

Average throughput: 716.05 Mbit/s

95th percentile per-packet one-way delay: 233.415 ms

Loss rate: 11.56%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-03-20 22:34:25

End at: 2018-03-20 22:34:55

Below is generated by plot.py at 2018-03-21 03:34:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 740.64 Mbit/s

95th percentile per-packet one-way delay: 225.087 ms

Loss rate: 9.49%

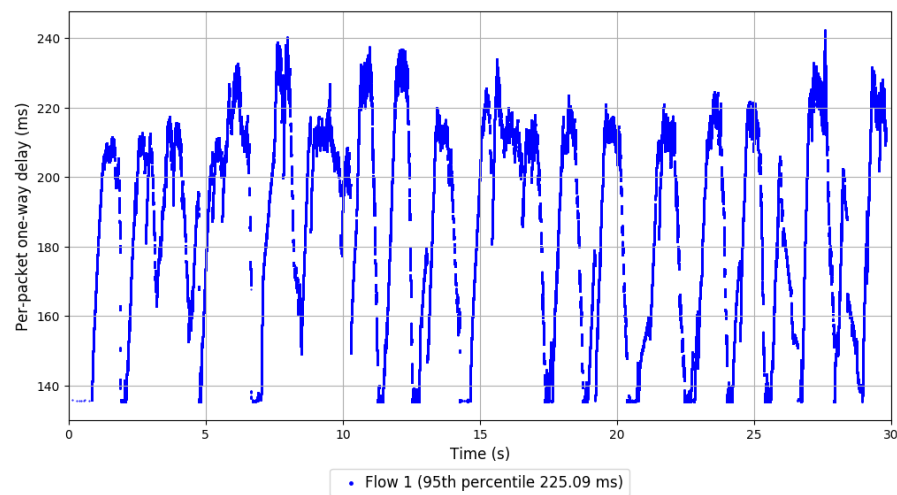
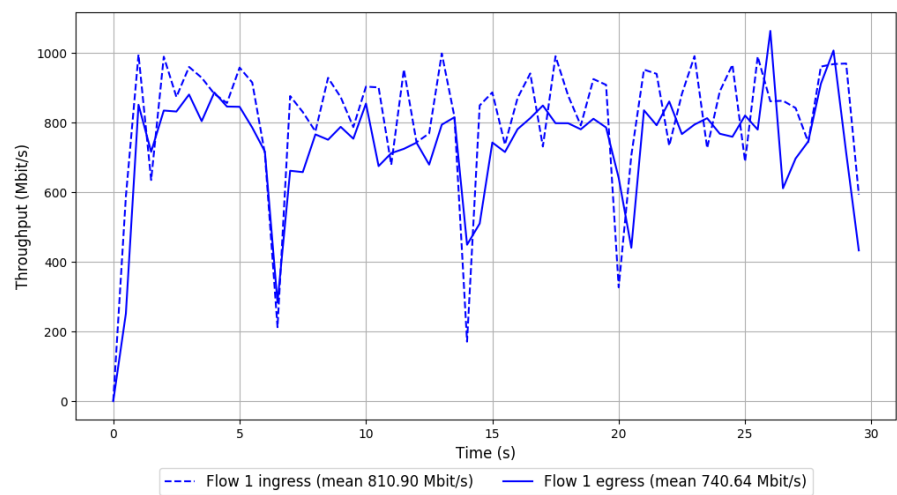
-- Flow 1:

Average throughput: 740.64 Mbit/s

95th percentile per-packet one-way delay: 225.087 ms

Loss rate: 9.49%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-03-20 22:50:24

End at: 2018-03-20 22:50:54

Below is generated by plot.py at 2018-03-21 03:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 781.52 Mbit/s

95th percentile per-packet one-way delay: 236.423 ms

Loss rate: 9.24%

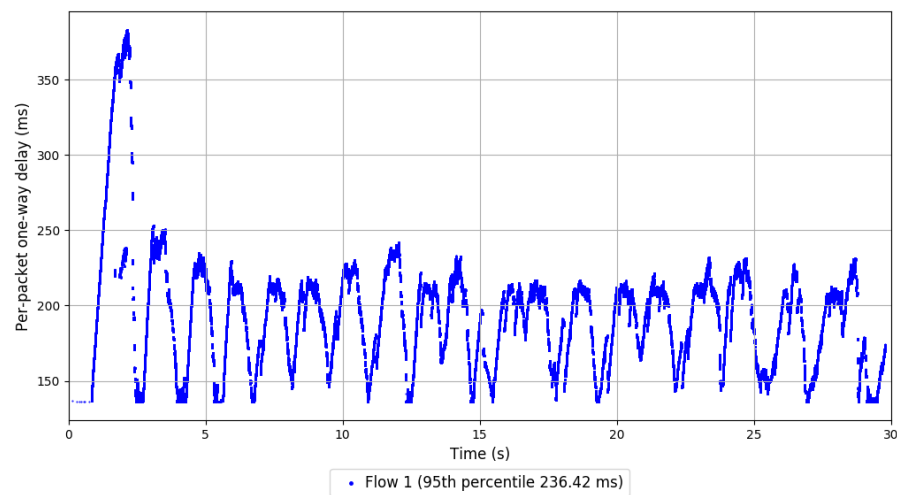
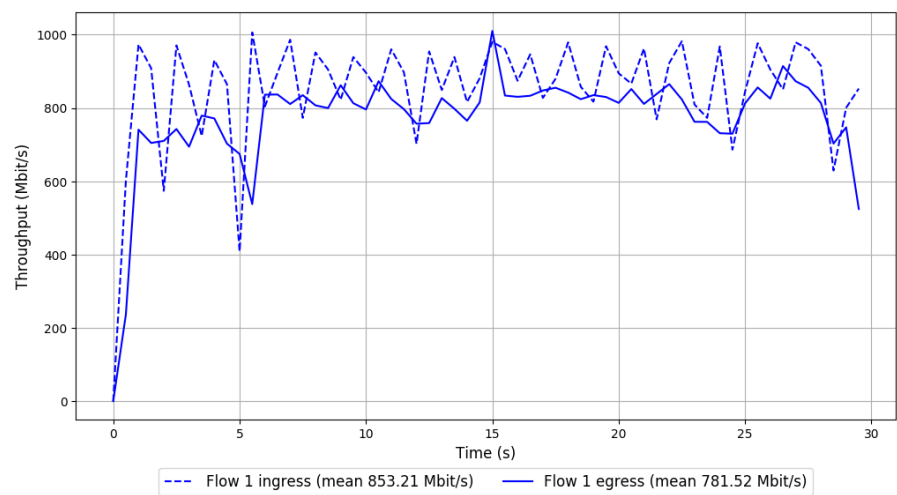
-- Flow 1:

Average throughput: 781.52 Mbit/s

95th percentile per-packet one-way delay: 236.423 ms

Loss rate: 9.24%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-03-20 23:06:00

End at: 2018-03-20 23:06:30

Below is generated by plot.py at 2018-03-21 03:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 716.61 Mbit/s

95th percentile per-packet one-way delay: 229.204 ms

Loss rate: 12.43%

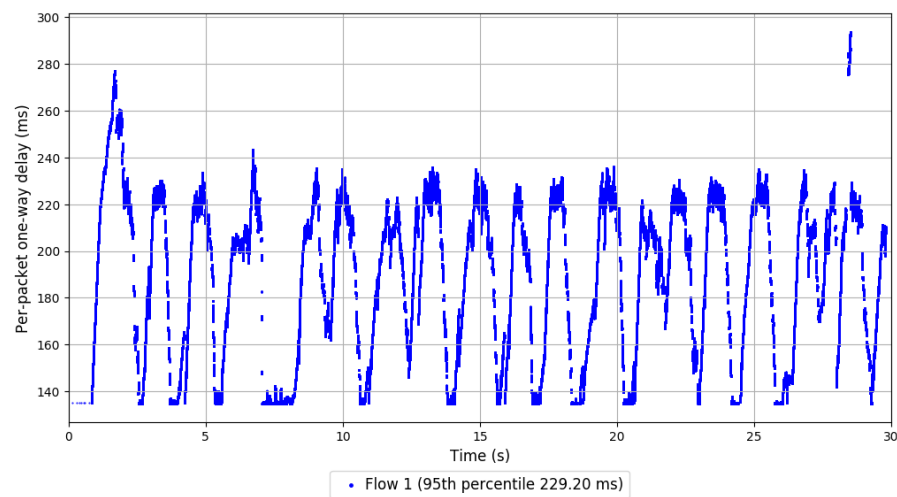
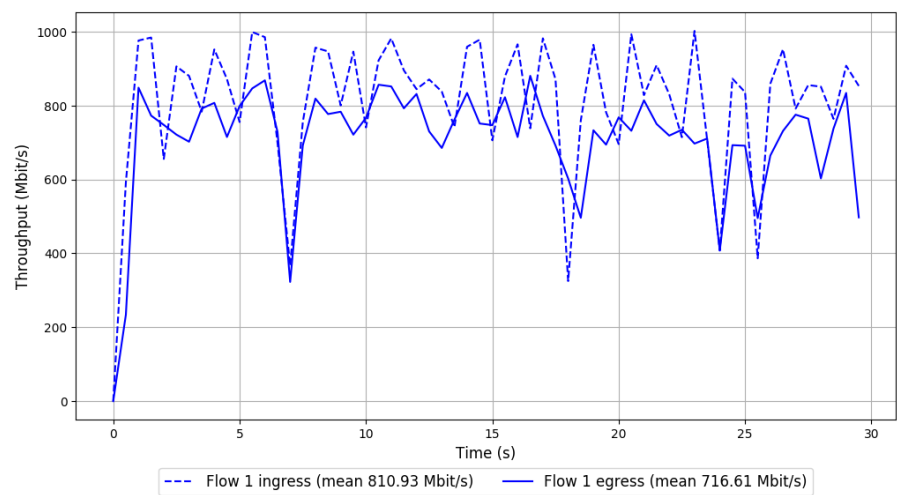
-- Flow 1:

Average throughput: 716.61 Mbit/s

95th percentile per-packet one-way delay: 229.204 ms

Loss rate: 12.43%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-03-20 23:21:51

End at: 2018-03-20 23:22:21

Below is generated by plot.py at 2018-03-21 03:35:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 763.93 Mbit/s

95th percentile per-packet one-way delay: 227.934 ms

Loss rate: 9.23%

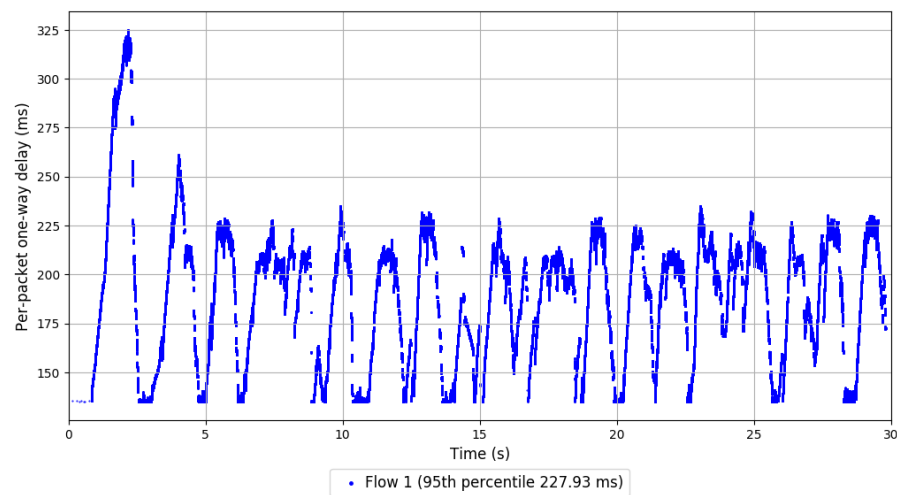
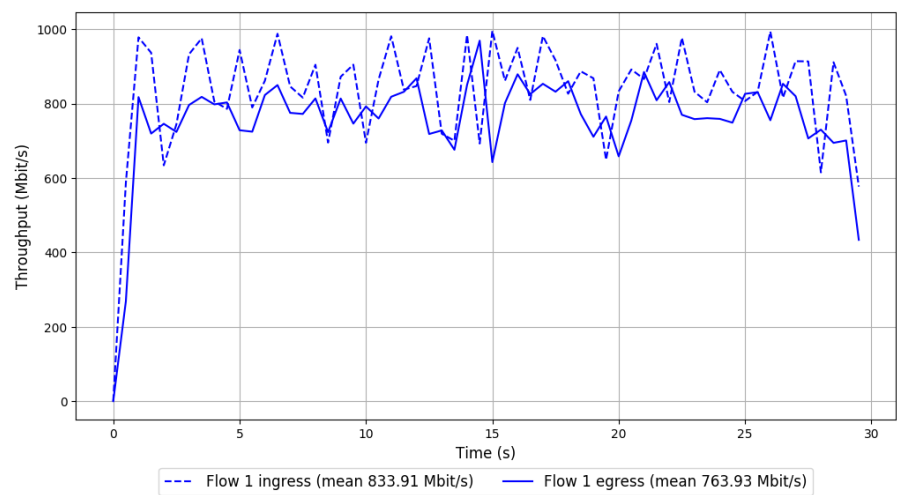
-- Flow 1:

Average throughput: 763.93 Mbit/s

95th percentile per-packet one-way delay: 227.934 ms

Loss rate: 9.23%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-03-20 23:37:45

End at: 2018-03-20 23:38:15

Below is generated by plot.py at 2018-03-21 03:47:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 741.29 Mbit/s

95th percentile per-packet one-way delay: 228.371 ms

Loss rate: 11.20%

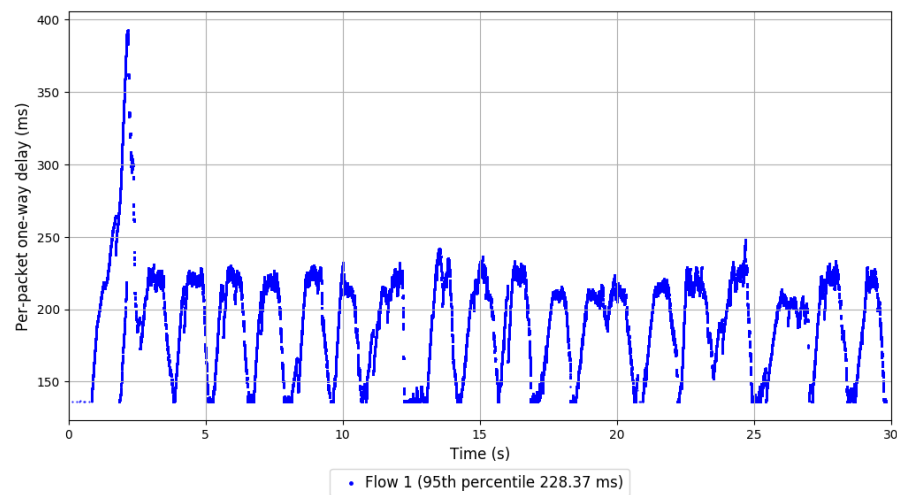
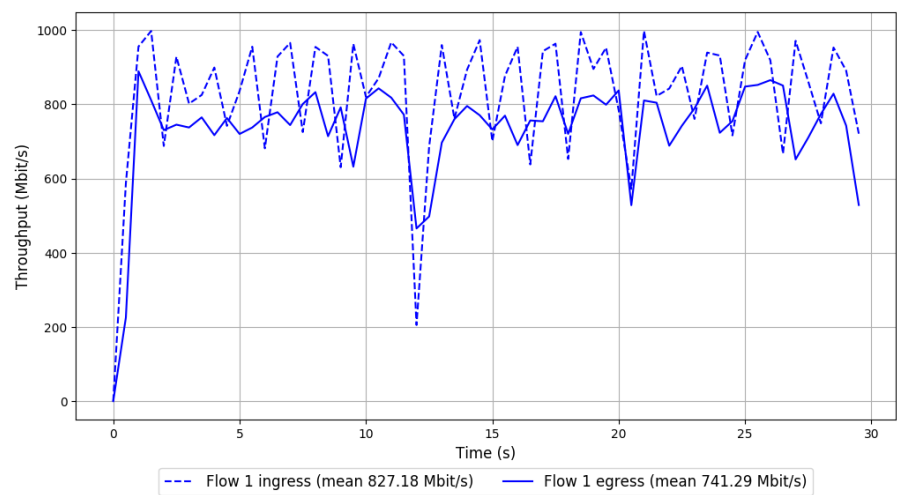
-- Flow 1:

Average throughput: 741.29 Mbit/s

95th percentile per-packet one-way delay: 228.371 ms

Loss rate: 11.20%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-03-20 23:53:42

End at: 2018-03-20 23:54:12

Below is generated by plot.py at 2018-03-21 03:47:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 747.06 Mbit/s

95th percentile per-packet one-way delay: 227.967 ms

Loss rate: 11.03%

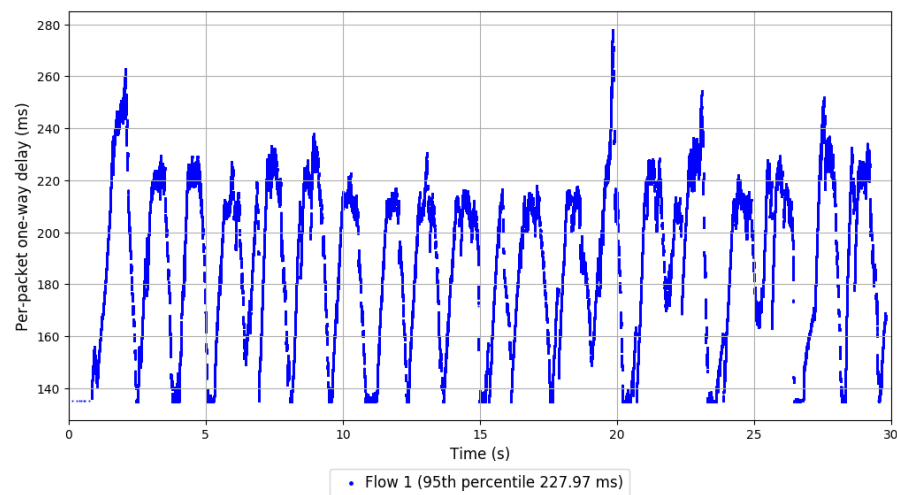
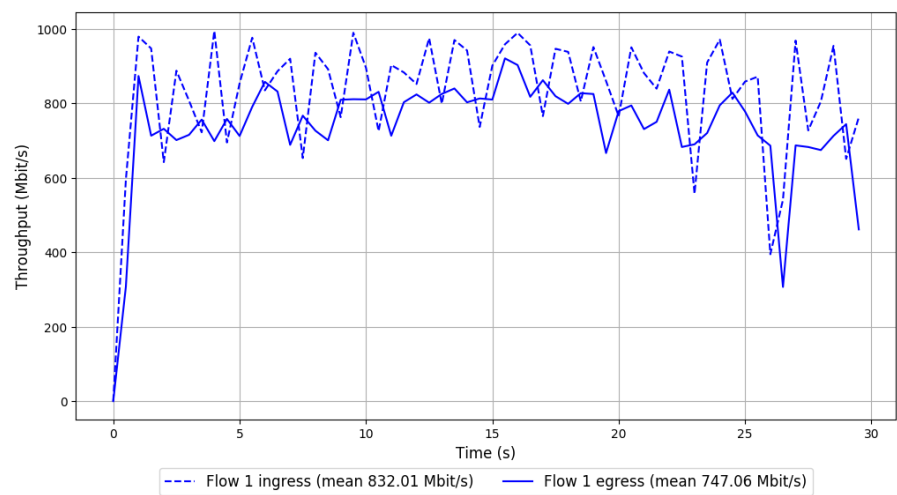
-- Flow 1:

Average throughput: 747.06 Mbit/s

95th percentile per-packet one-way delay: 227.967 ms

Loss rate: 11.03%

Run 10: Report of FillP — Data Link

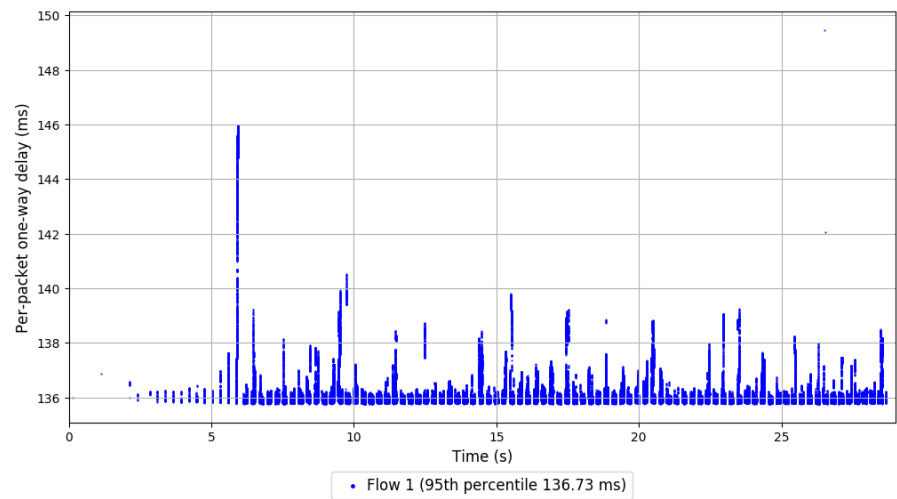
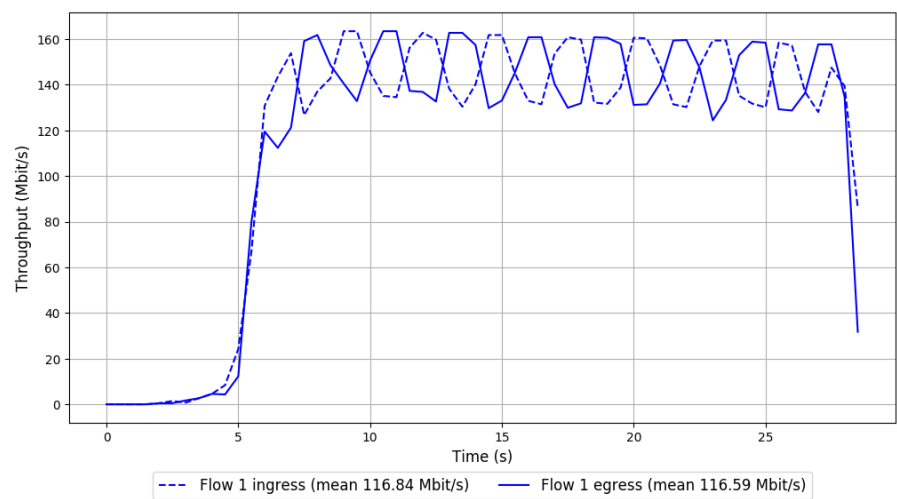


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-03-20 21:25:02
End at: 2018-03-20 21:25:32

# Below is generated by plot.py at 2018-03-21 03:47:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 116.59 Mbit/s
95th percentile per-packet one-way delay: 136.732 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 116.59 Mbit/s
95th percentile per-packet one-way delay: 136.732 ms
Loss rate: 1.15%
```

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

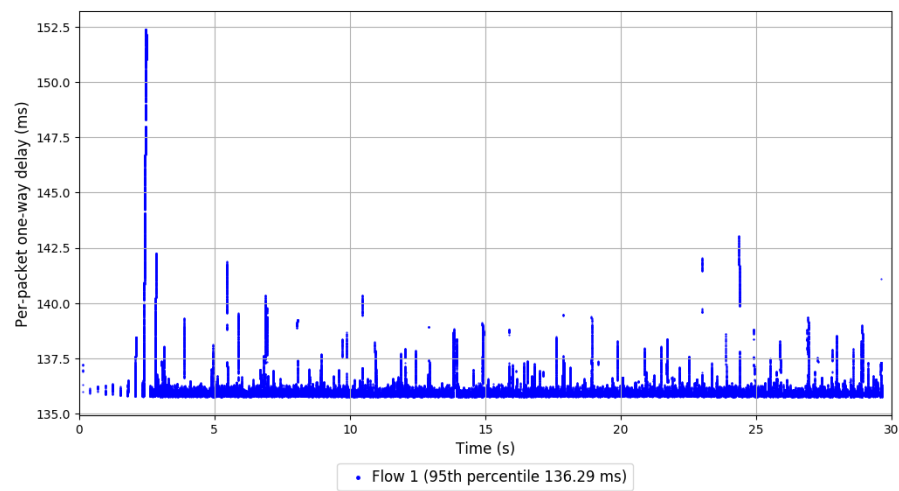
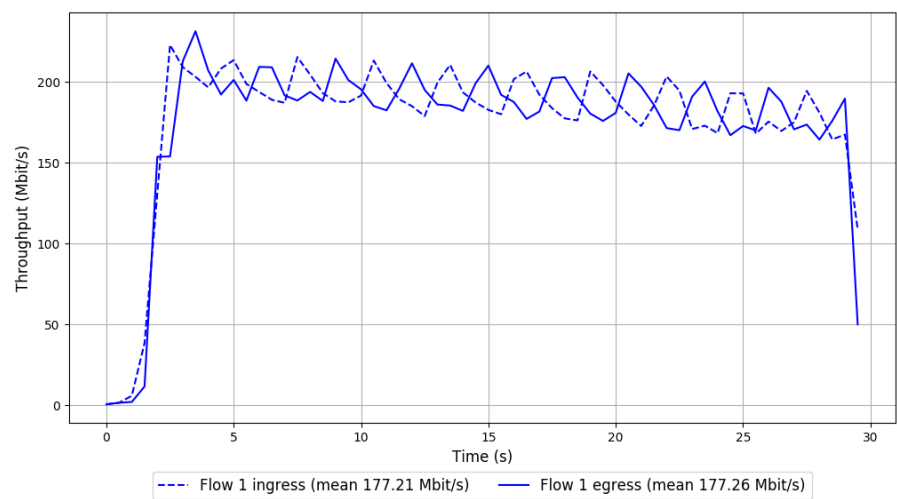


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-03-20 21:40:53
End at: 2018-03-20 21:41:23

# Below is generated by plot.py at 2018-03-21 03:47:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 177.26 Mbit/s
95th percentile per-packet one-way delay: 136.292 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 177.26 Mbit/s
95th percentile per-packet one-way delay: 136.292 ms
Loss rate: 0.89%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-03-20 21:56:26

End at: 2018-03-20 21:56:56

Below is generated by plot.py at 2018-03-21 03:47:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.02 Mbit/s

95th percentile per-packet one-way delay: 136.893 ms

Loss rate: 0.93%

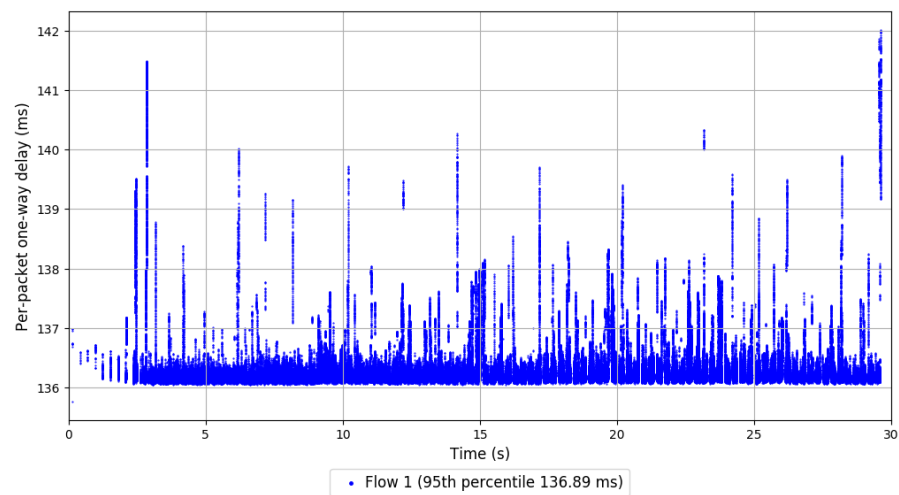
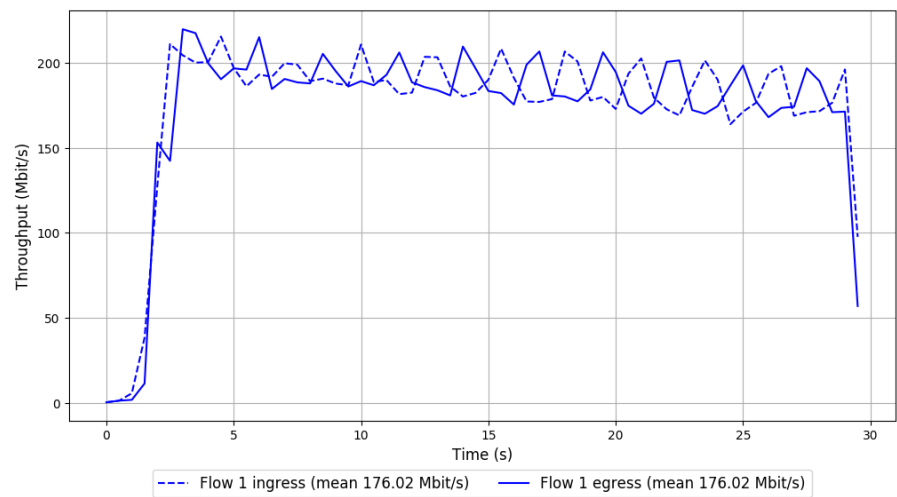
-- Flow 1:

Average throughput: 176.02 Mbit/s

95th percentile per-packet one-way delay: 136.893 ms

Loss rate: 0.93%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-03-20 22:12:41

End at: 2018-03-20 22:13:11

Below is generated by plot.py at 2018-03-21 03:47:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.65 Mbit/s

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

Loss rate: 0.85%

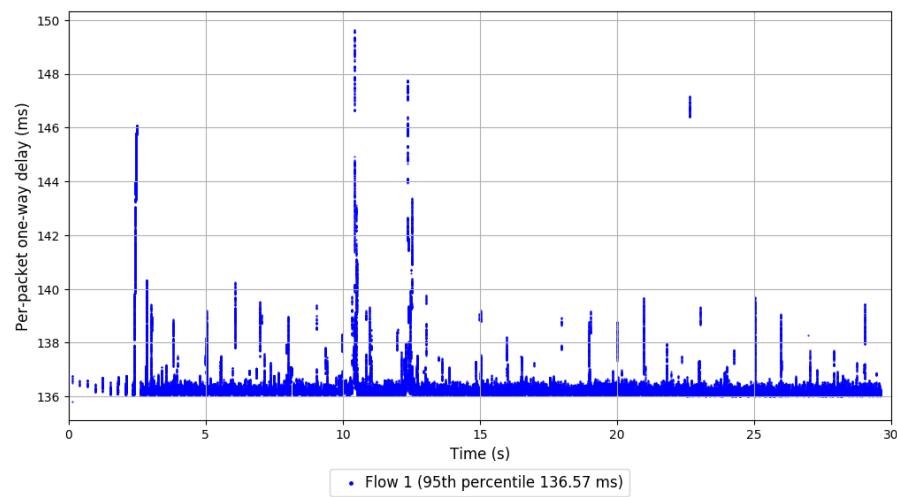
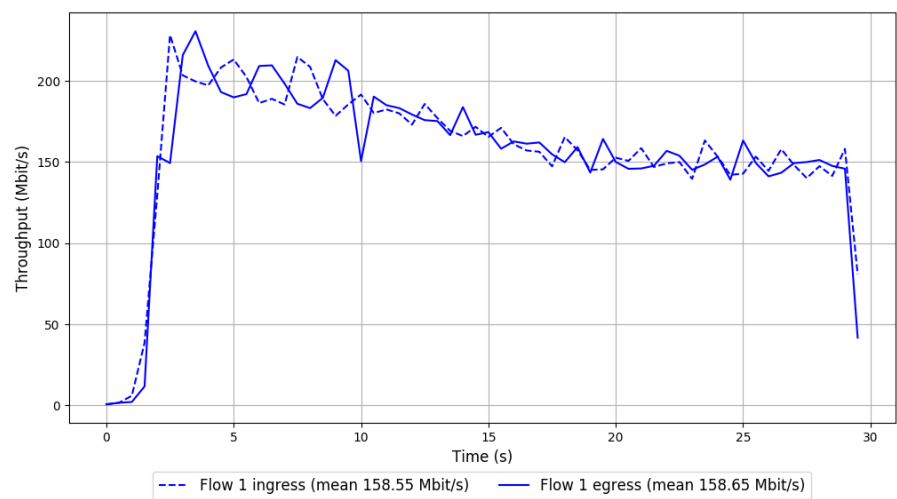
-- Flow 1:

Average throughput: 158.65 Mbit/s

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

Loss rate: 0.85%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-03-20 22:28:39

End at: 2018-03-20 22:29:09

Below is generated by plot.py at 2018-03-21 03:47:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.71 Mbit/s

95th percentile per-packet one-way delay: 136.342 ms

Loss rate: 0.90%

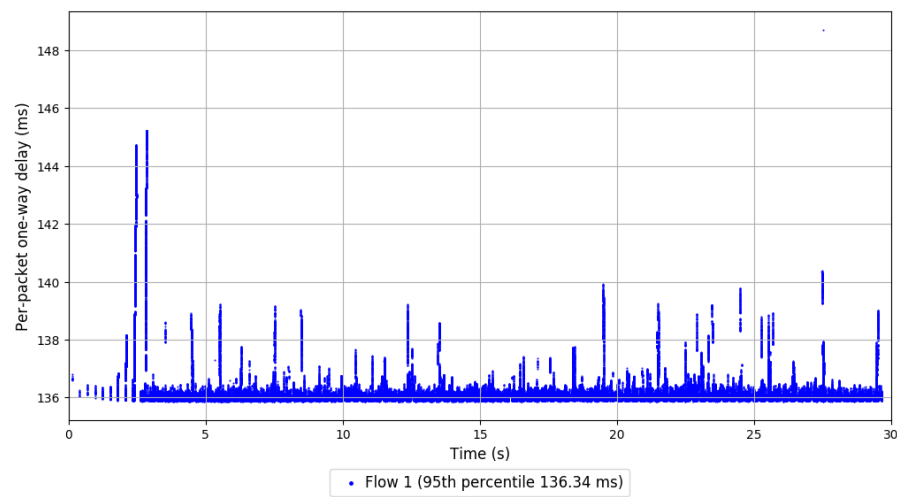
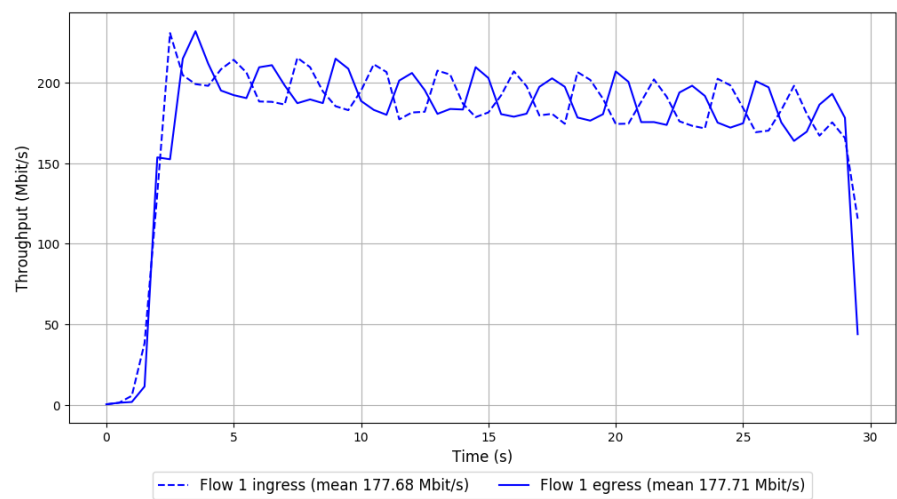
-- Flow 1:

Average throughput: 177.71 Mbit/s

95th percentile per-packet one-way delay: 136.342 ms

Loss rate: 0.90%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-03-20 22:44:33

End at: 2018-03-20 22:45:03

Below is generated by plot.py at 2018-03-21 03:47:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.87 Mbit/s

95th percentile per-packet one-way delay: 136.320 ms

Loss rate: 0.94%

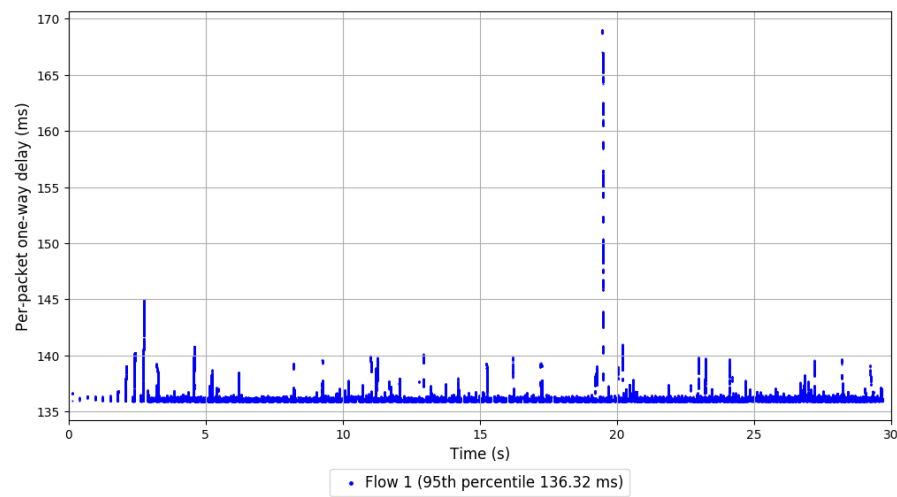
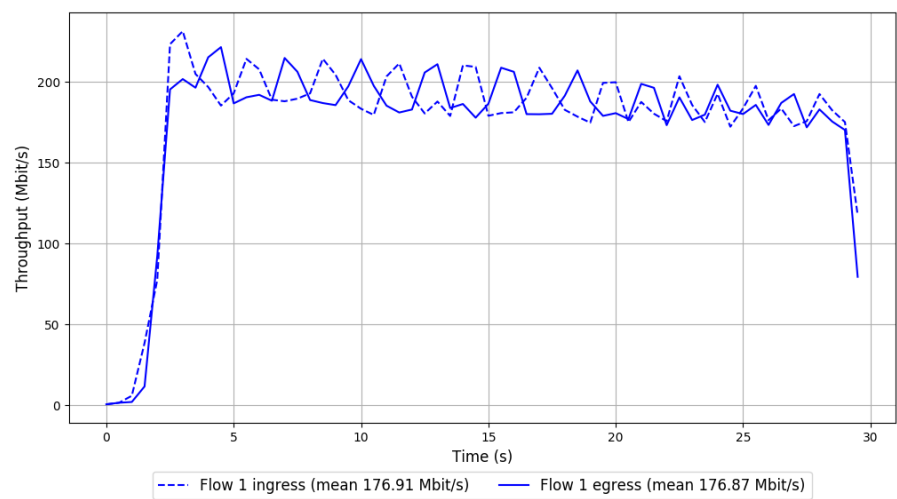
-- Flow 1:

Average throughput: 176.87 Mbit/s

95th percentile per-packet one-way delay: 136.320 ms

Loss rate: 0.94%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-03-20 23:00:22

End at: 2018-03-20 23:00:53

Below is generated by plot.py at 2018-03-21 03:47:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.68 Mbit/s

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

Loss rate: 0.93%

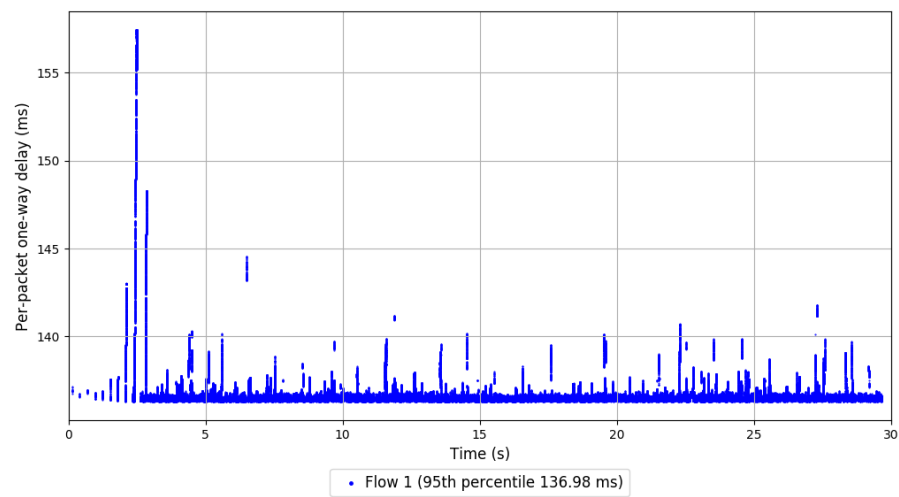
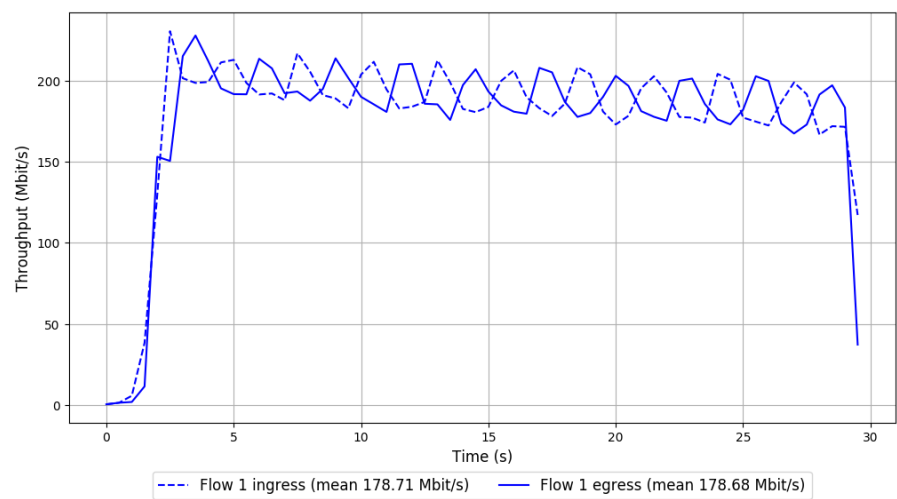
-- Flow 1:

Average throughput: 178.68 Mbit/s

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

Loss rate: 0.93%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-03-20 23:16:14

End at: 2018-03-20 23:16:44

Below is generated by plot.py at 2018-03-21 03:47:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.60 Mbit/s

95th percentile per-packet one-way delay: 137.019 ms

Loss rate: 0.84%

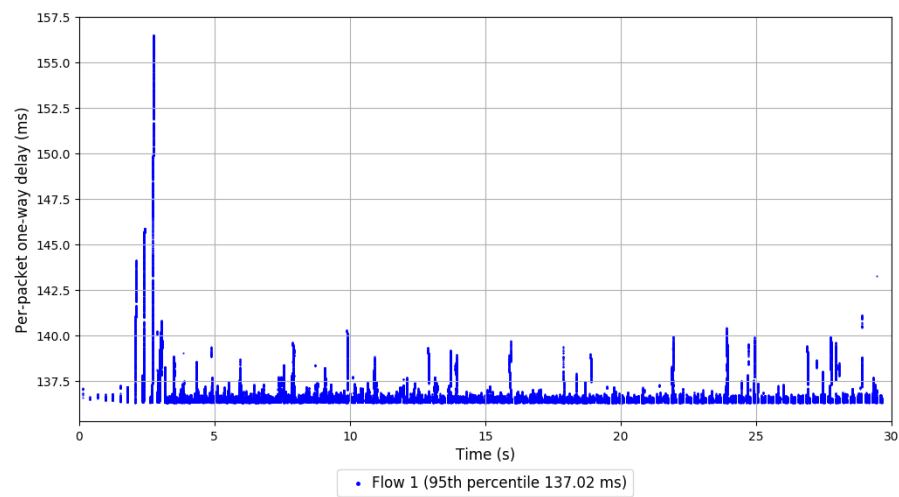
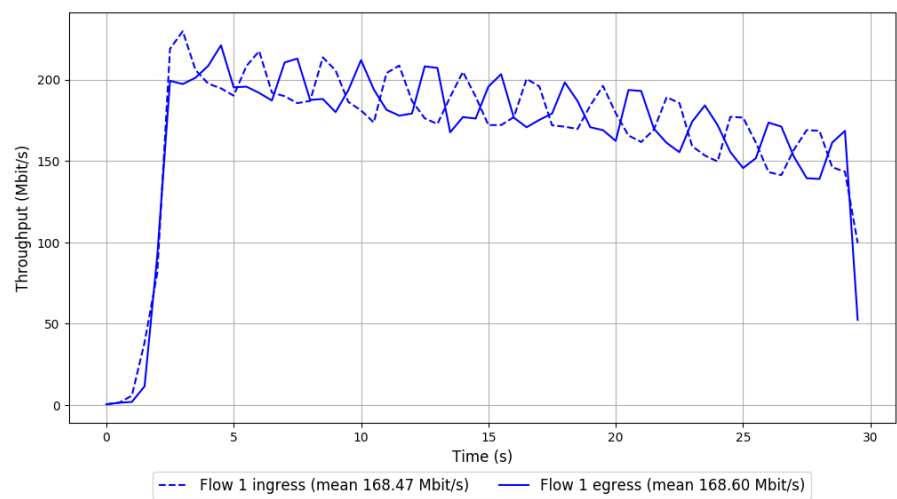
-- Flow 1:

Average throughput: 168.60 Mbit/s

95th percentile per-packet one-way delay: 137.019 ms

Loss rate: 0.84%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-03-20 23:31:59

End at: 2018-03-20 23:32:29

Below is generated by plot.py at 2018-03-21 03:47:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.25 Mbit/s

95th percentile per-packet one-way delay: 136.605 ms

Loss rate: 0.89%

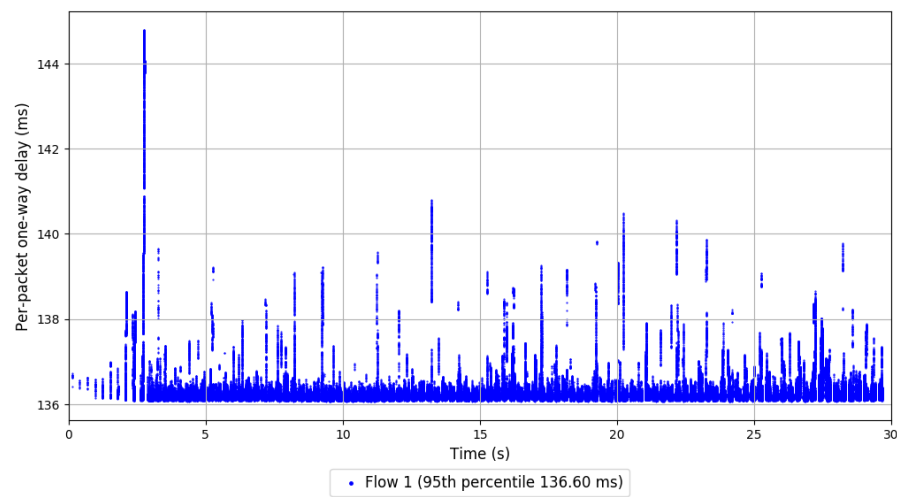
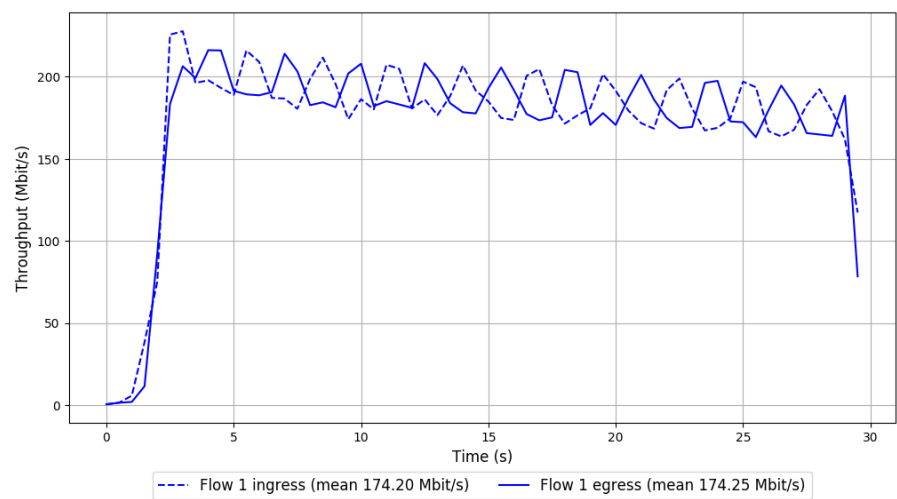
-- Flow 1:

Average throughput: 174.25 Mbit/s

95th percentile per-packet one-way delay: 136.605 ms

Loss rate: 0.89%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-03-20 23:47:51

End at: 2018-03-20 23:48:21

Below is generated by plot.py at 2018-03-21 03:47:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.63 Mbit/s

95th percentile per-packet one-way delay: 134.421 ms

Loss rate: 0.92%

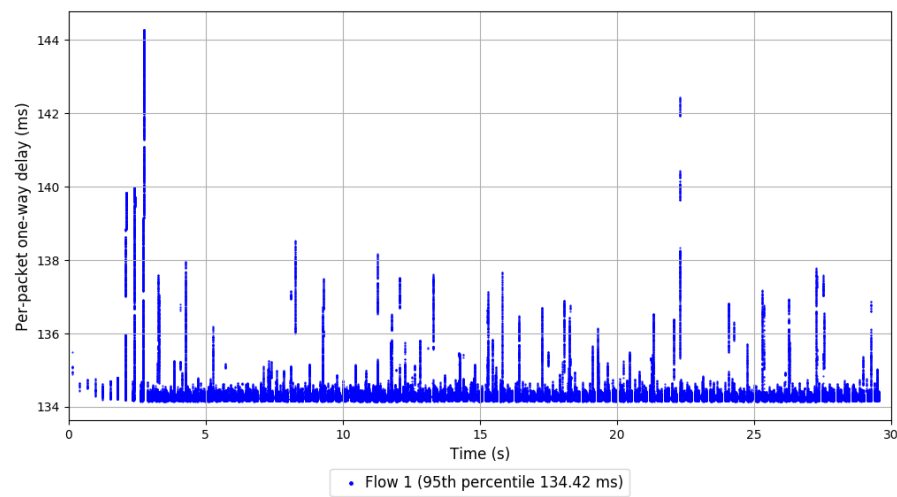
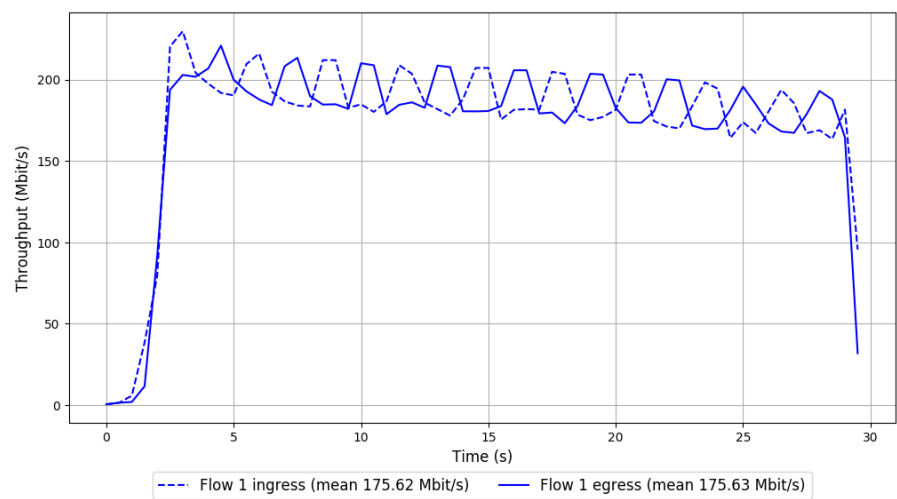
-- Flow 1:

Average throughput: 175.63 Mbit/s

95th percentile per-packet one-way delay: 134.421 ms

Loss rate: 0.92%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-03-20 21:37:22

End at: 2018-03-20 21:37:52

Below is generated by plot.py at 2018-03-21 03:47:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 300.62 Mbit/s

95th percentile per-packet one-way delay: 236.607 ms

Loss rate: 1.21%

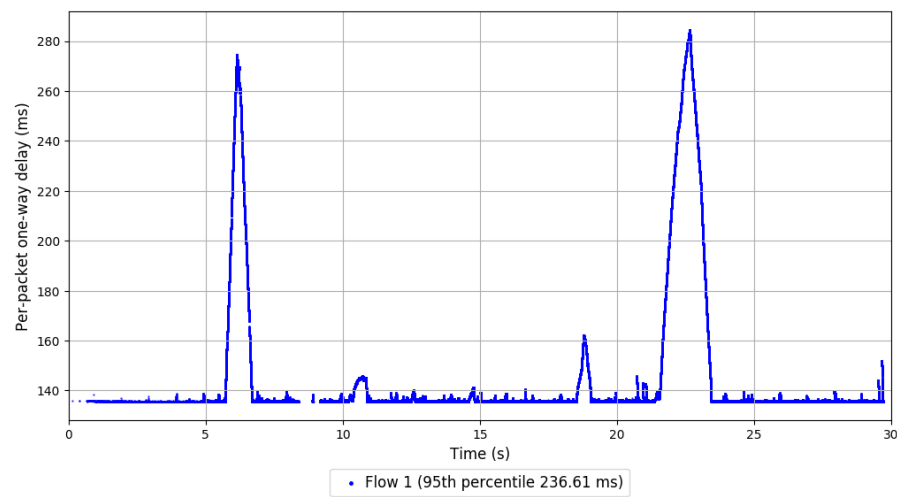
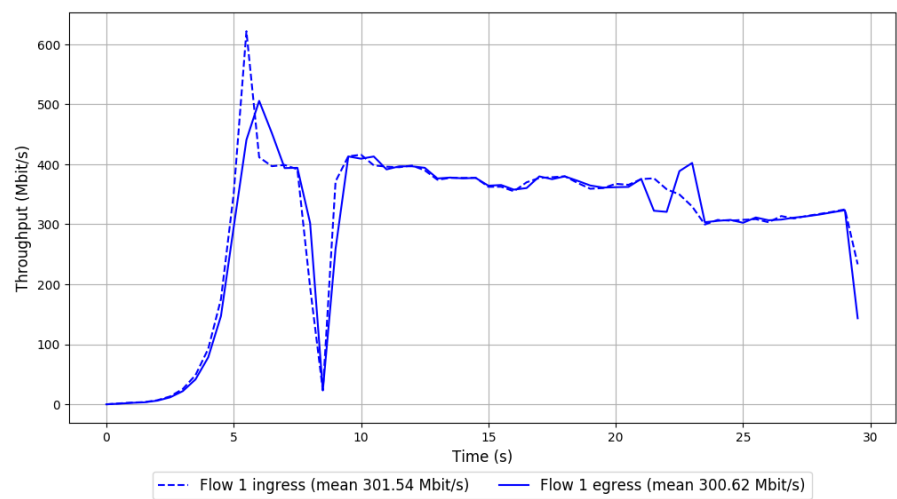
-- Flow 1:

Average throughput: 300.62 Mbit/s

95th percentile per-packet one-way delay: 236.607 ms

Loss rate: 1.21%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-03-20 21:53:02

End at: 2018-03-20 21:53:32

Below is generated by plot.py at 2018-03-21 03:47:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 262.89 Mbit/s

95th percentile per-packet one-way delay: 192.434 ms

Loss rate: 1.75%

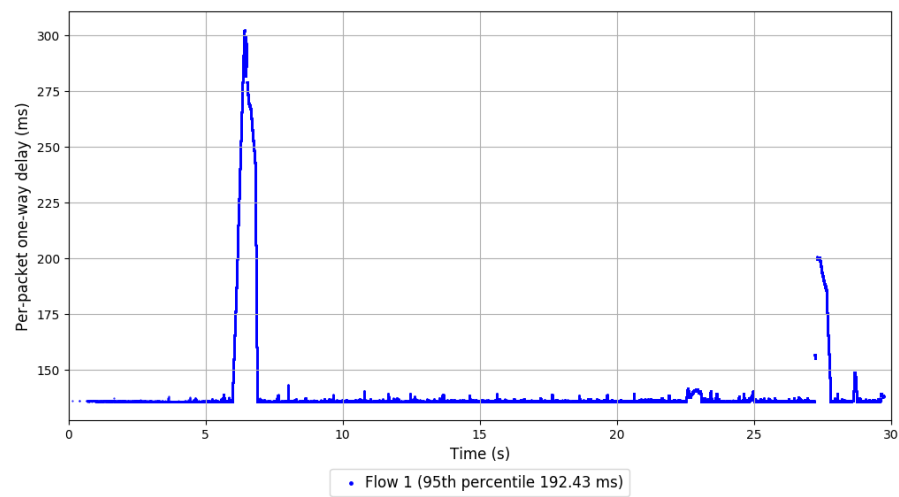
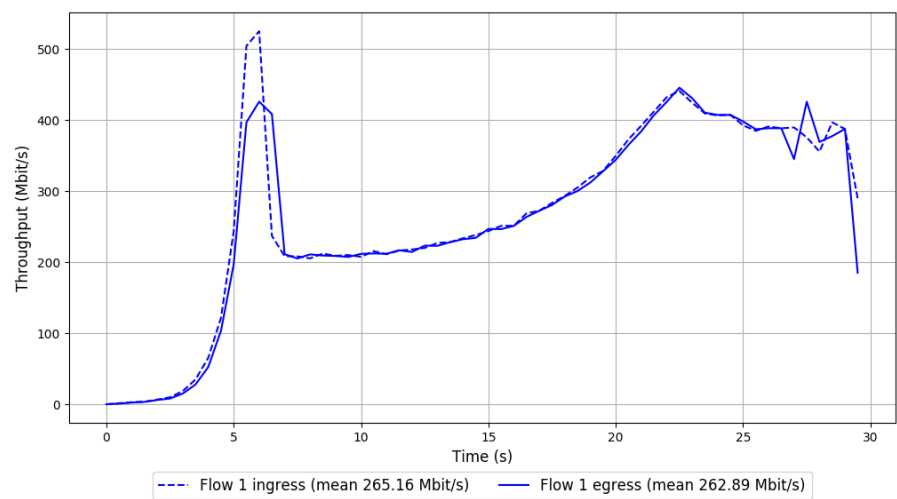
-- Flow 1:

Average throughput: 262.89 Mbit/s

95th percentile per-packet one-way delay: 192.434 ms

Loss rate: 1.75%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-03-20 22:09:07

End at: 2018-03-20 22:09:37

Below is generated by plot.py at 2018-03-21 03:47:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 279.26 Mbit/s

95th percentile per-packet one-way delay: 185.384 ms

Loss rate: 1.37%

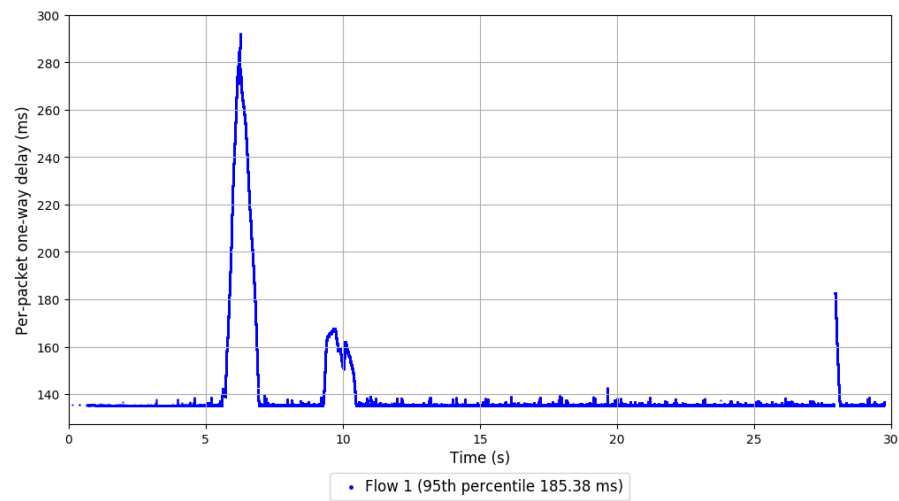
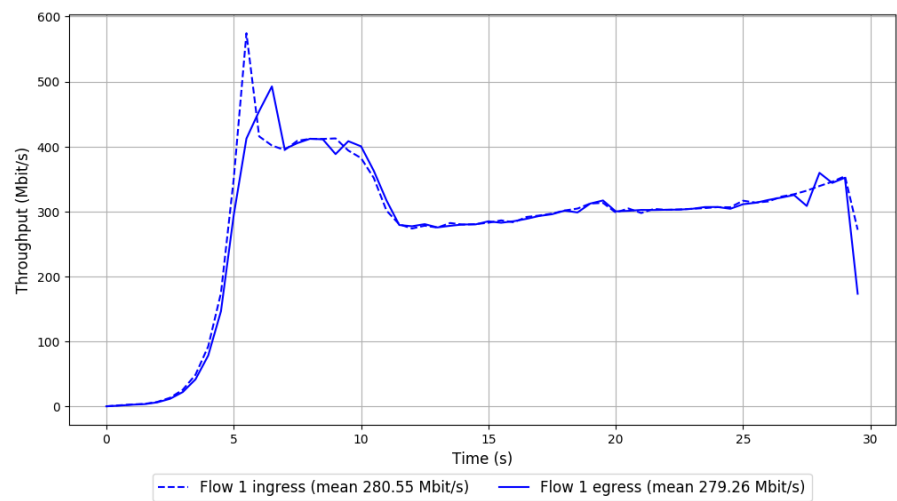
-- Flow 1:

Average throughput: 279.26 Mbit/s

95th percentile per-packet one-way delay: 185.384 ms

Loss rate: 1.37%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-03-20 22:25:13

End at: 2018-03-20 22:25:43

Below is generated by plot.py at 2018-03-21 03:47:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 263.11 Mbit/s

95th percentile per-packet one-way delay: 153.246 ms

Loss rate: 1.28%

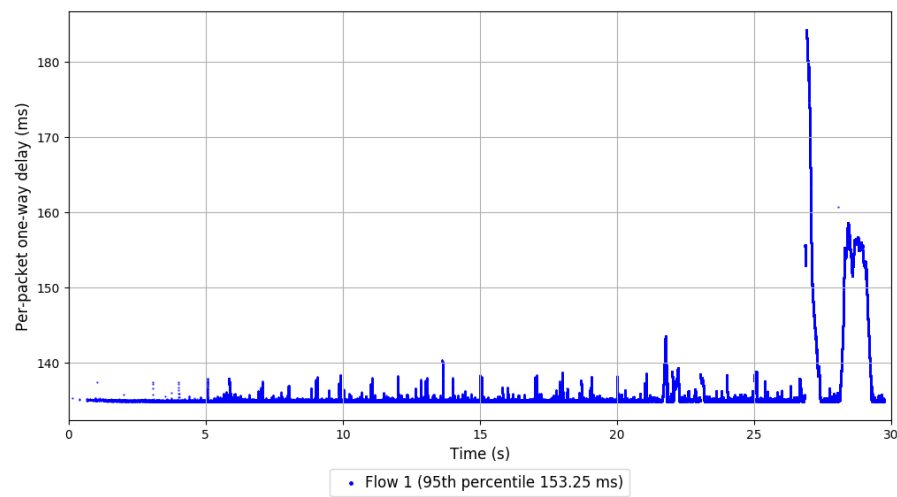
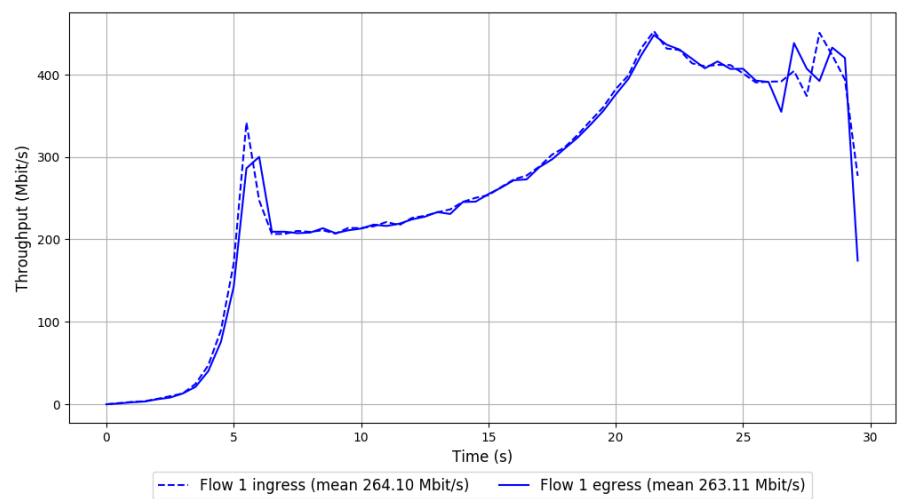
-- Flow 1:

Average throughput: 263.11 Mbit/s

95th percentile per-packet one-way delay: 153.246 ms

Loss rate: 1.28%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-03-20 22:41:00

End at: 2018-03-20 22:41:30

Below is generated by plot.py at 2018-03-21 03:47:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 302.34 Mbit/s

95th percentile per-packet one-way delay: 162.533 ms

Loss rate: 1.08%

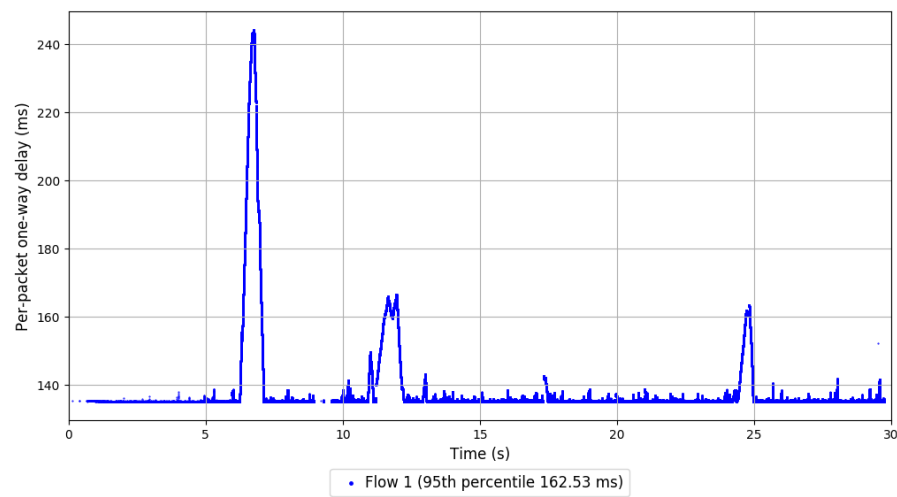
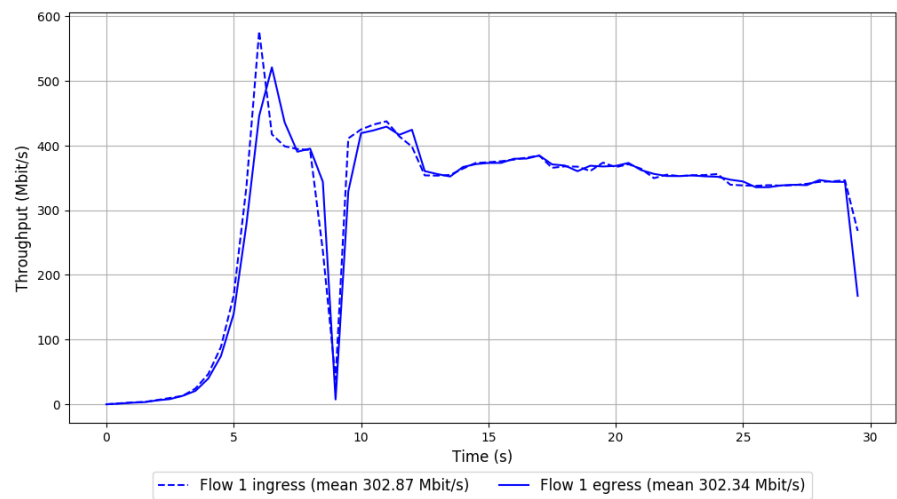
-- Flow 1:

Average throughput: 302.34 Mbit/s

95th percentile per-packet one-way delay: 162.533 ms

Loss rate: 1.08%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-03-20 22:56:53

End at: 2018-03-20 22:57:23

Below is generated by plot.py at 2018-03-21 03:47:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.68 Mbit/s

95th percentile per-packet one-way delay: 137.516 ms

Loss rate: 1.46%

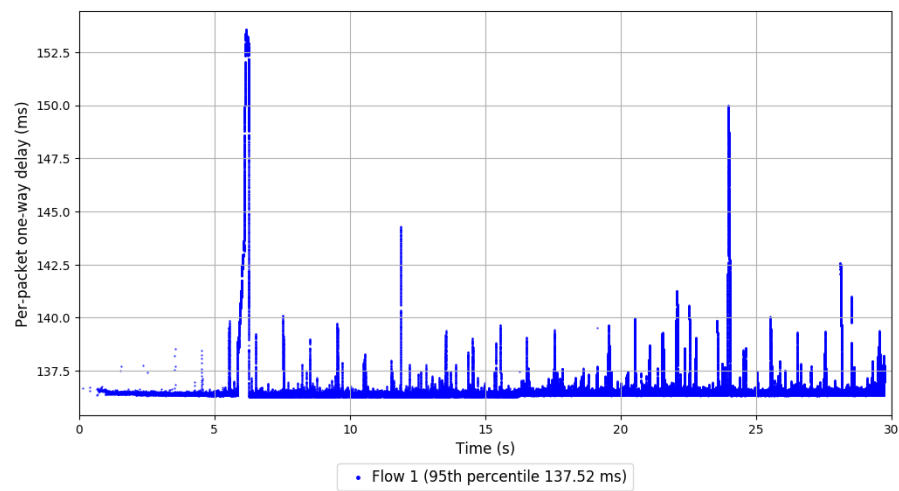
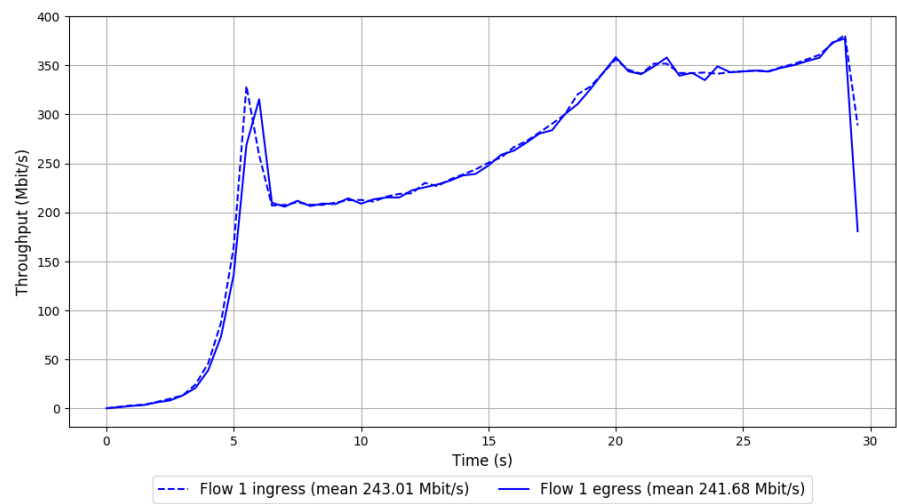
-- Flow 1:

Average throughput: 241.68 Mbit/s

95th percentile per-packet one-way delay: 137.516 ms

Loss rate: 1.46%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-03-20 23:12:44

End at: 2018-03-20 23:13:14

Below is generated by plot.py at 2018-03-21 03:48:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 302.80 Mbit/s

95th percentile per-packet one-way delay: 229.940 ms

Loss rate: 1.74%

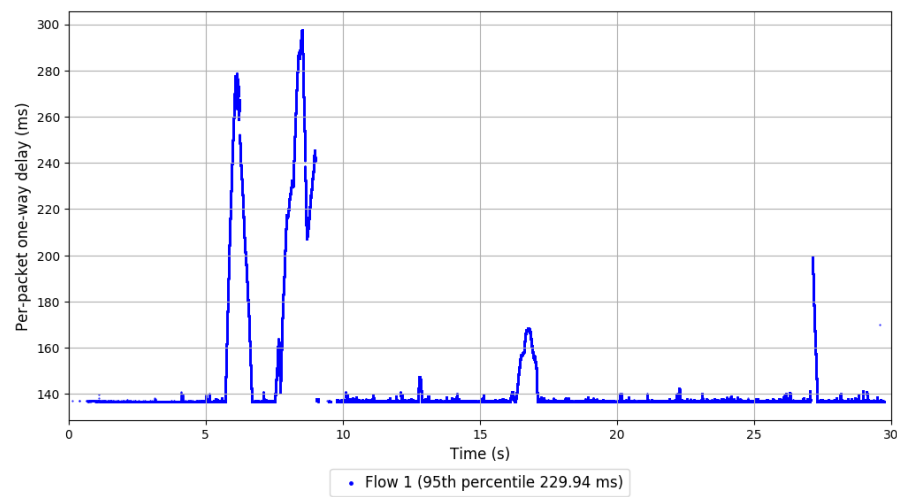
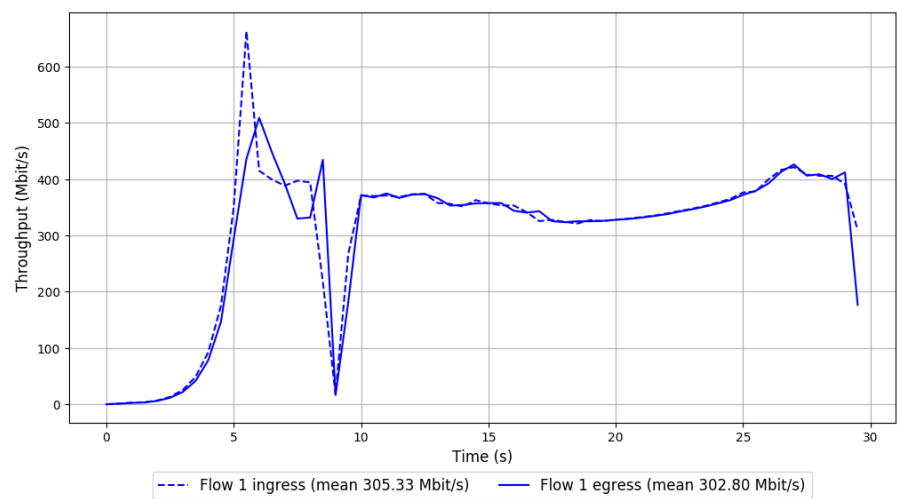
-- Flow 1:

Average throughput: 302.80 Mbit/s

95th percentile per-packet one-way delay: 229.940 ms

Loss rate: 1.74%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-03-20 23:28:25

End at: 2018-03-20 23:28:55

Below is generated by plot.py at 2018-03-21 03:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 323.16 Mbit/s

95th percentile per-packet one-way delay: 178.233 ms

Loss rate: 1.71%

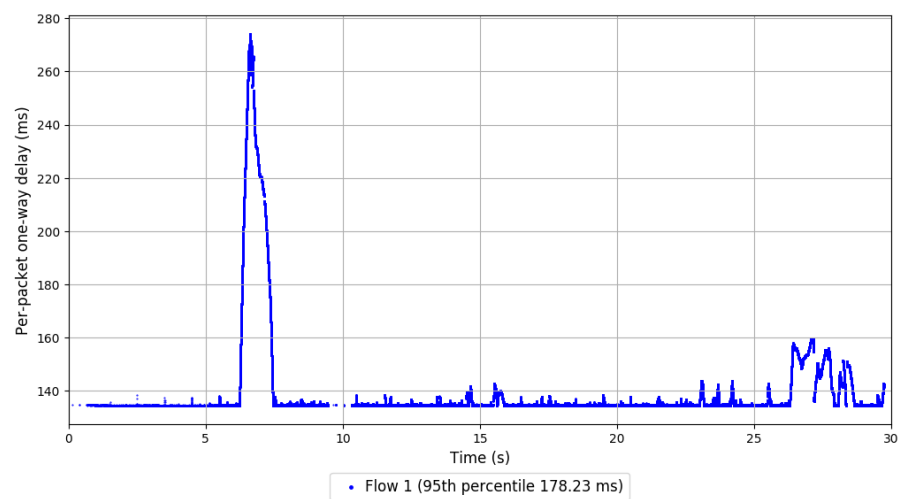
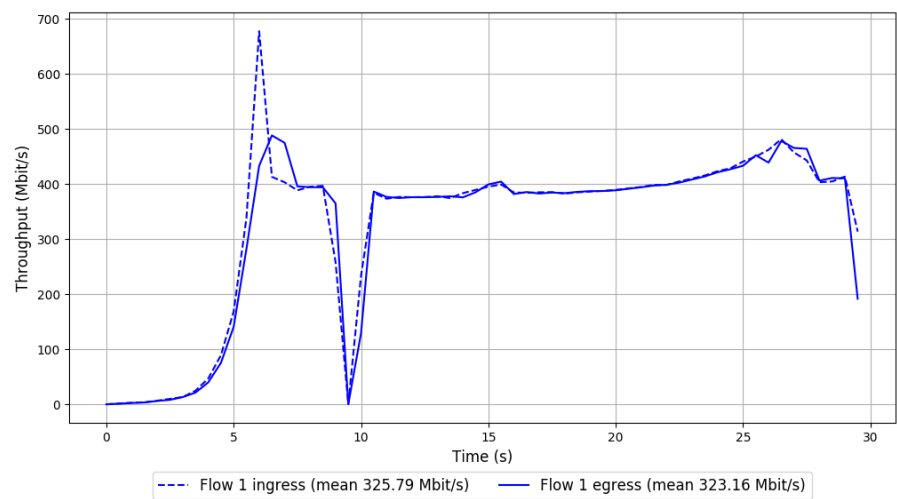
-- Flow 1:

Average throughput: 323.16 Mbit/s

95th percentile per-packet one-way delay: 178.233 ms

Loss rate: 1.71%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-03-20 23:44:28

End at: 2018-03-20 23:44:58

Below is generated by plot.py at 2018-03-21 03:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 256.97 Mbit/s

95th percentile per-packet one-way delay: 302.461 ms

Loss rate: 3.00%

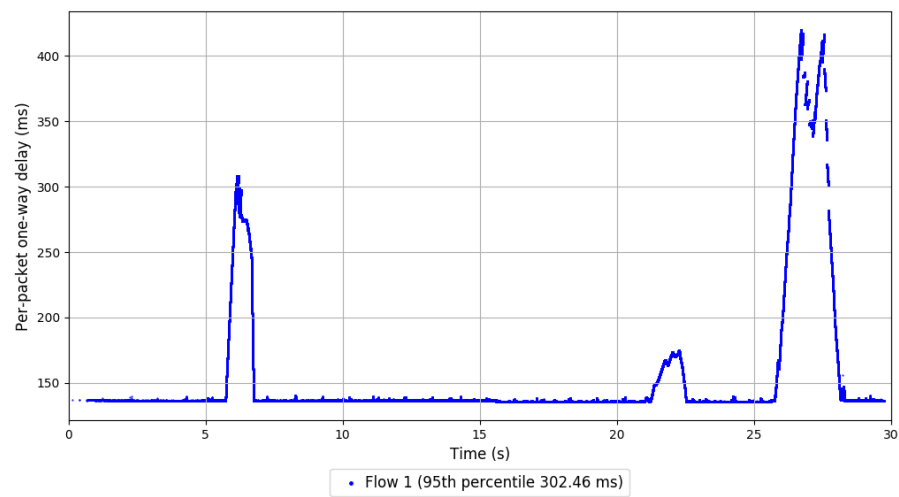
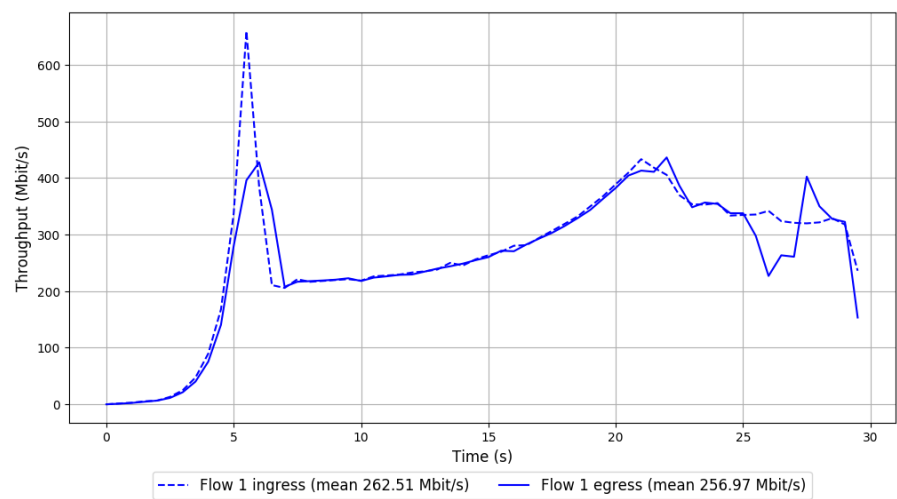
-- Flow 1:

Average throughput: 256.97 Mbit/s

95th percentile per-packet one-way delay: 302.461 ms

Loss rate: 3.00%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-03-21 00:00:20

End at: 2018-03-21 00:00:50

Below is generated by plot.py at 2018-03-21 03:49:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 289.80 Mbit/s

95th percentile per-packet one-way delay: 182.024 ms

Loss rate: 1.22%

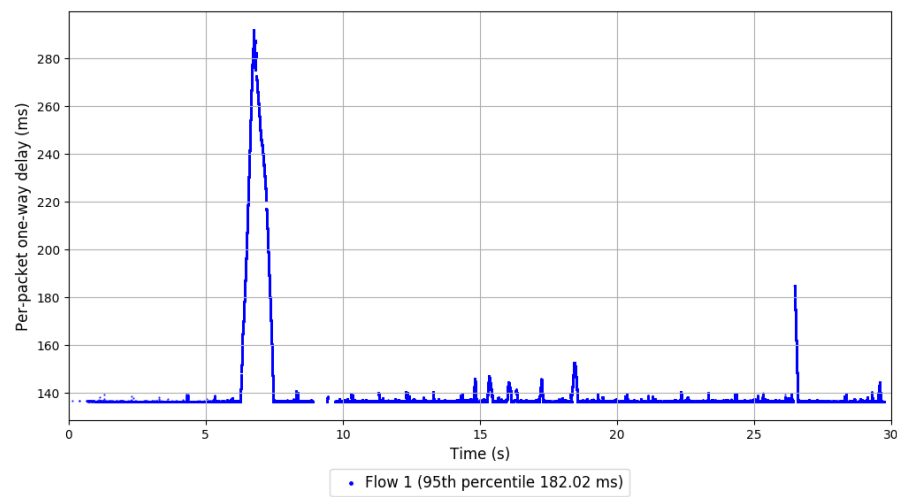
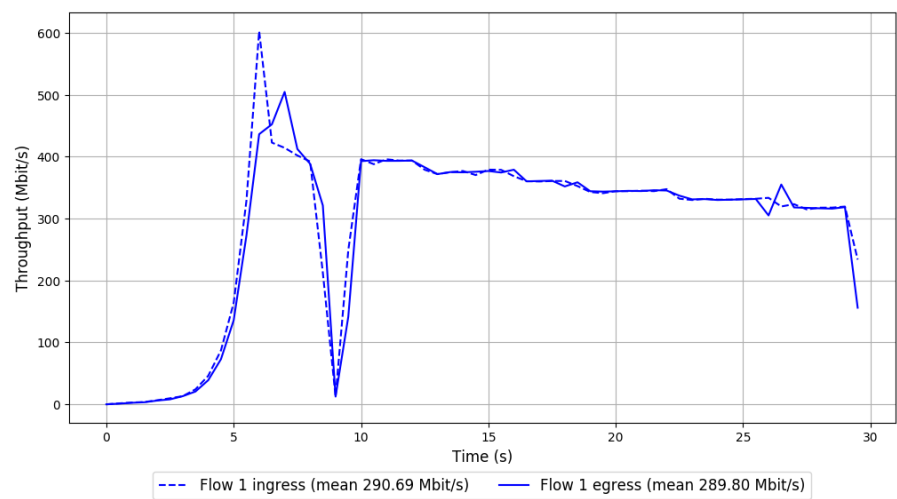
-- Flow 1:

Average throughput: 289.80 Mbit/s

95th percentile per-packet one-way delay: 182.024 ms

Loss rate: 1.22%

Run 10: Report of Vivace-latency — Data Link

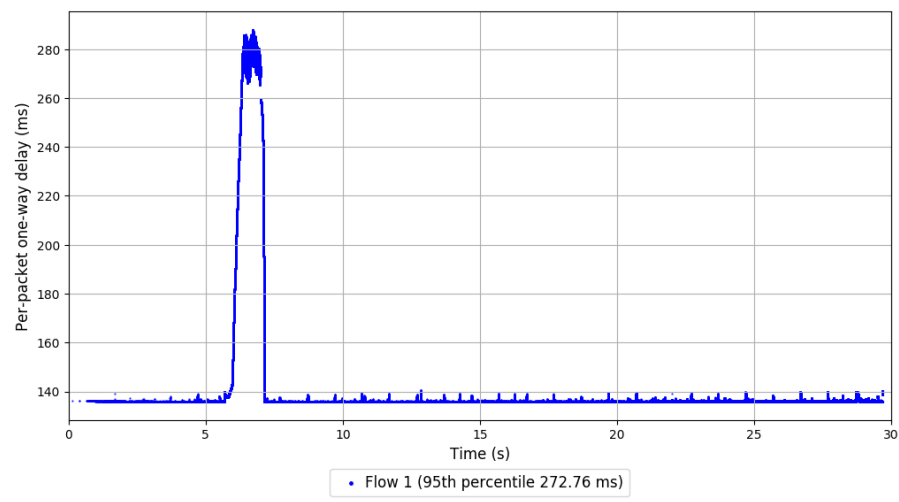
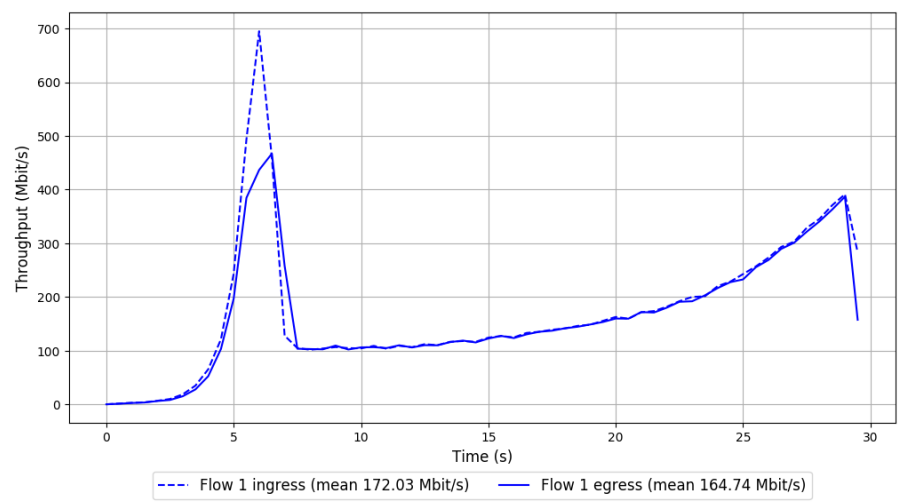


```
Run 1: Statistics of Vivace-loss

Start at: 2018-03-20 21:35:45
End at: 2018-03-20 21:36:15

# Below is generated by plot.py at 2018-03-21 03:49:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 164.74 Mbit/s
95th percentile per-packet one-way delay: 272.765 ms
Loss rate: 5.11%
-- Flow 1:
Average throughput: 164.74 Mbit/s
95th percentile per-packet one-way delay: 272.765 ms
Loss rate: 5.11%
```

Run 1: Report of Vivace-loss — Data Link

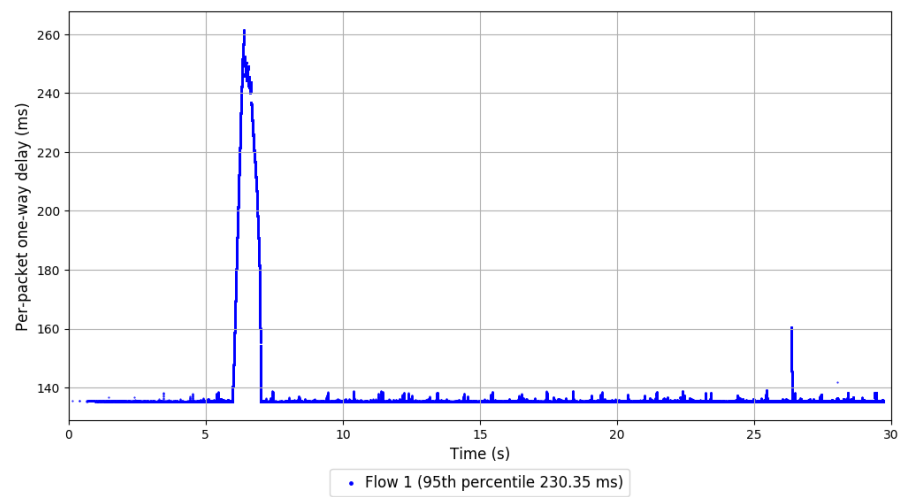
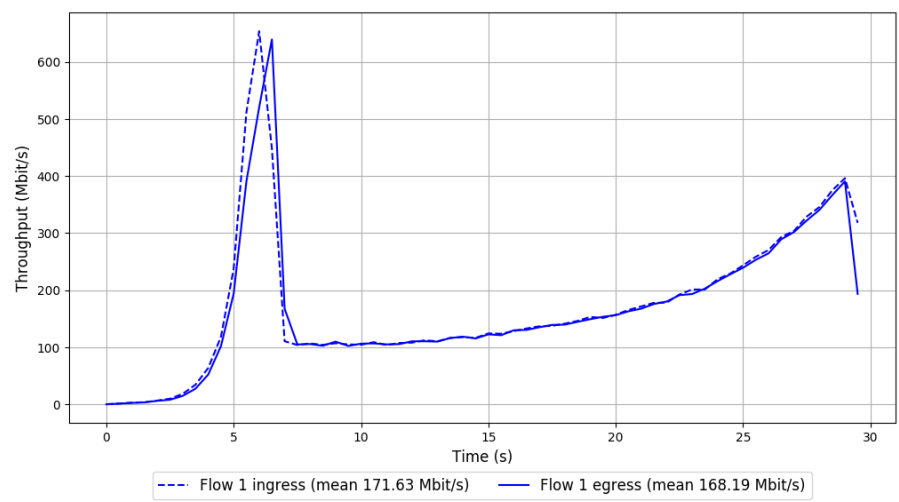


```
Run 2: Statistics of Vivace-loss

Start at: 2018-03-20 21:51:21
End at: 2018-03-20 21:51:51

# Below is generated by plot.py at 2018-03-21 03:49:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 168.19 Mbit/s
95th percentile per-packet one-way delay: 230.353 ms
Loss rate: 2.90%
-- Flow 1:
Average throughput: 168.19 Mbit/s
95th percentile per-packet one-way delay: 230.353 ms
Loss rate: 2.90%
```

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-03-20 22:07:14

End at: 2018-03-20 22:07:44

Below is generated by plot.py at 2018-03-21 03:53:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 320.31 Mbit/s

95th percentile per-packet one-way delay: 296.824 ms

Loss rate: 2.12%

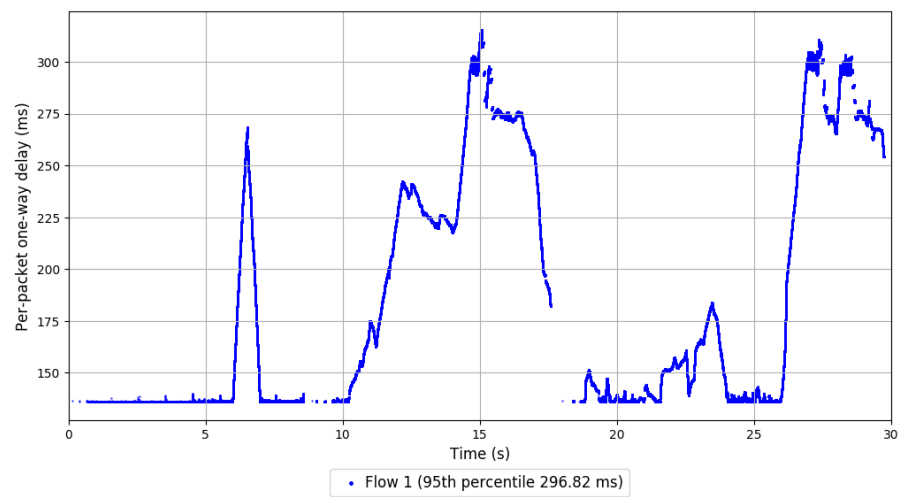
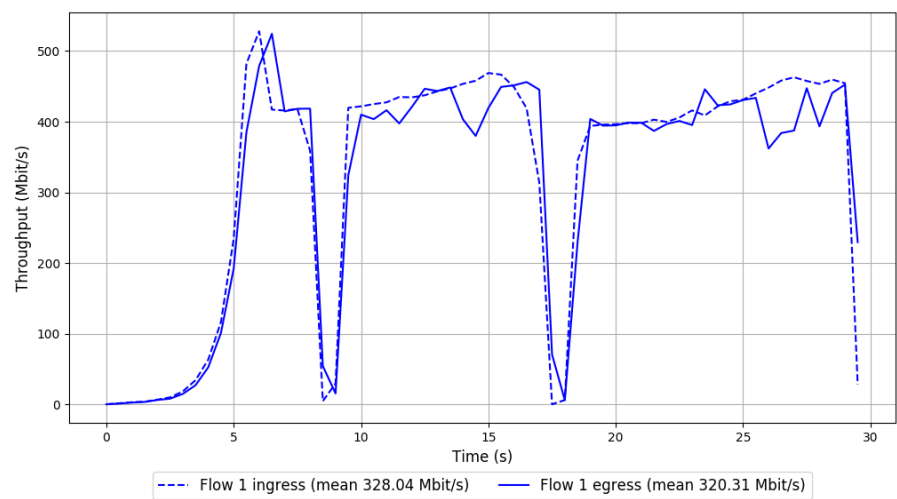
-- Flow 1:

Average throughput: 320.31 Mbit/s

95th percentile per-packet one-way delay: 296.824 ms

Loss rate: 2.12%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-03-20 22:23:24

End at: 2018-03-20 22:23:54

Below is generated by plot.py at 2018-03-21 03:53:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 260.12 Mbit/s

95th percentile per-packet one-way delay: 279.602 ms

Loss rate: 4.59%

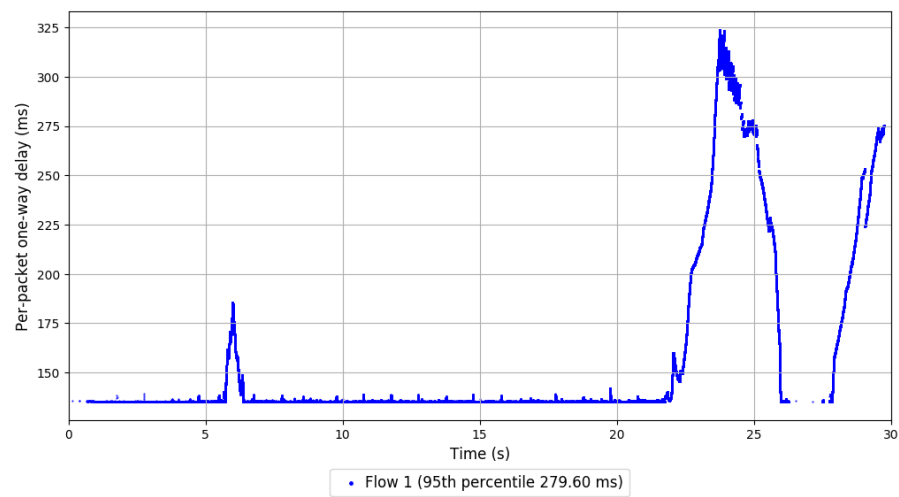
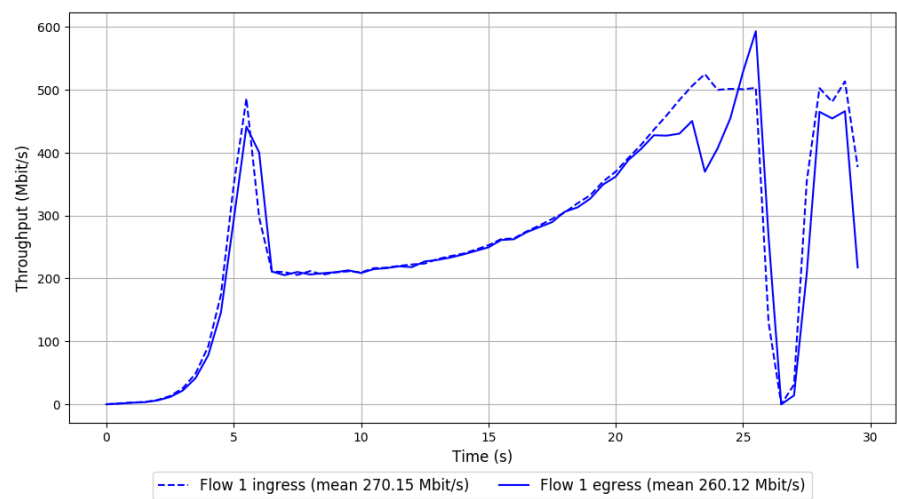
-- Flow 1:

Average throughput: 260.12 Mbit/s

95th percentile per-packet one-way delay: 279.602 ms

Loss rate: 4.59%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-03-20 22:39:20

End at: 2018-03-20 22:39:50

Below is generated by plot.py at 2018-03-21 03:53:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 137.30 Mbit/s

95th percentile per-packet one-way delay: 289.390 ms

Loss rate: 8.51%

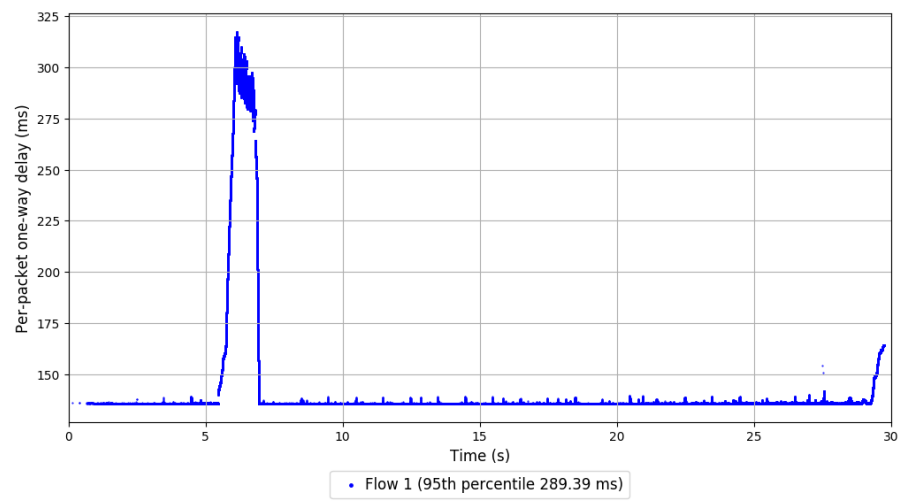
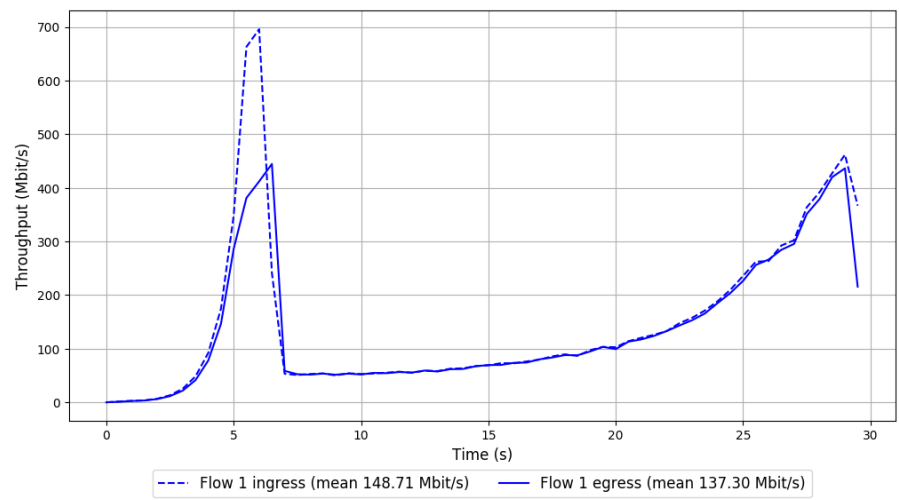
-- Flow 1:

Average throughput: 137.30 Mbit/s

95th percentile per-packet one-way delay: 289.390 ms

Loss rate: 8.51%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-03-20 22:55:00

End at: 2018-03-20 22:55:30

Below is generated by plot.py at 2018-03-21 03:53:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 323.06 Mbit/s

95th percentile per-packet one-way delay: 293.075 ms

Loss rate: 2.21%

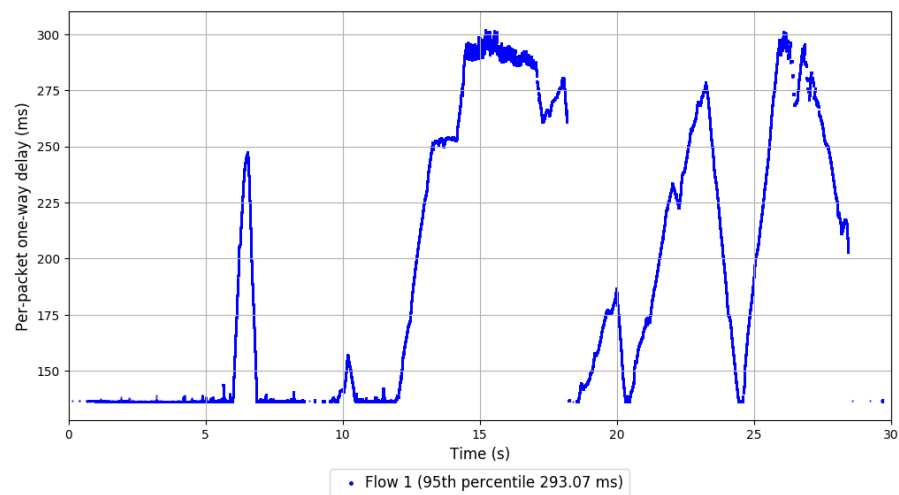
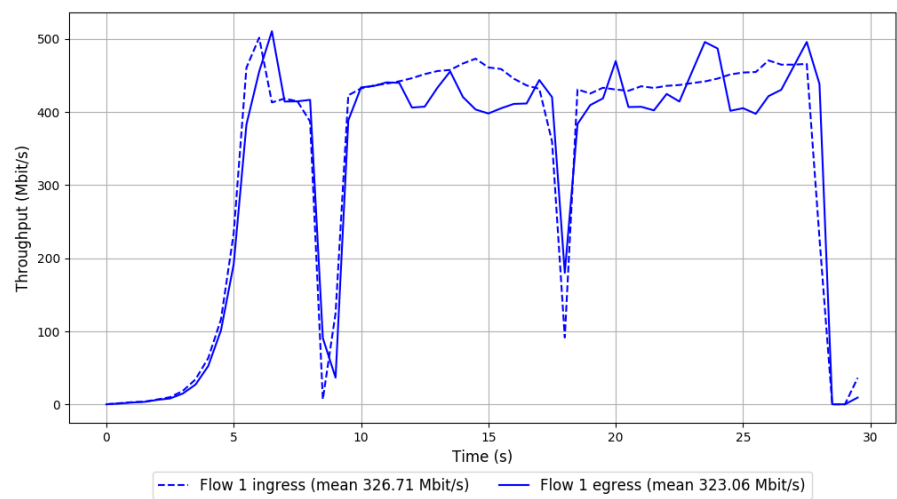
-- Flow 1:

Average throughput: 323.06 Mbit/s

95th percentile per-packet one-way delay: 293.075 ms

Loss rate: 2.21%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-03-20 23:10:55

End at: 2018-03-20 23:11:25

Below is generated by plot.py at 2018-03-21 03:53:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 259.08 Mbit/s

95th percentile per-packet one-way delay: 292.538 ms

Loss rate: 8.53%

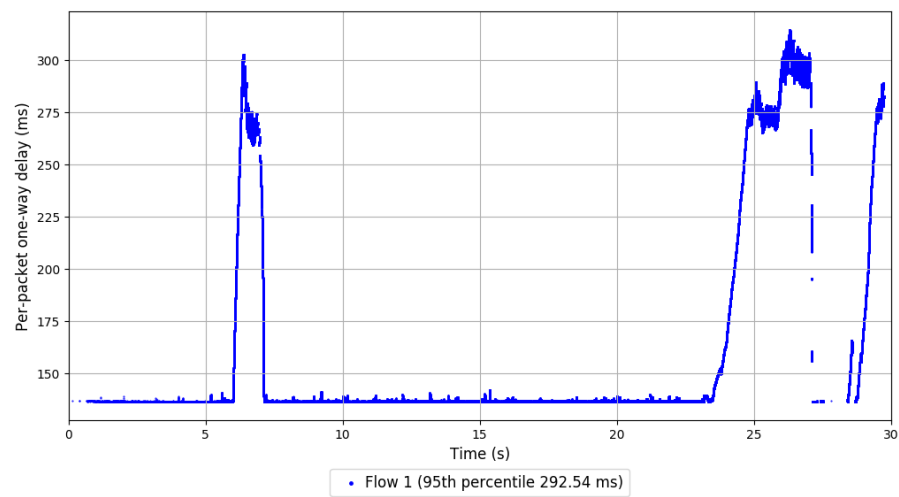
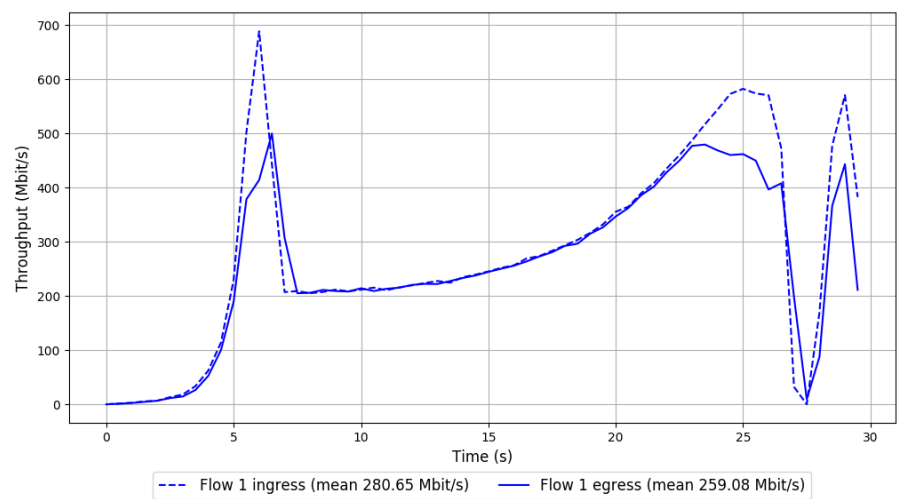
-- Flow 1:

Average throughput: 259.08 Mbit/s

95th percentile per-packet one-way delay: 292.538 ms

Loss rate: 8.53%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-03-20 23:26:45

End at: 2018-03-20 23:27:15

Below is generated by plot.py at 2018-03-21 03:53:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.60 Mbit/s

95th percentile per-packet one-way delay: 265.375 ms

Loss rate: 6.80%

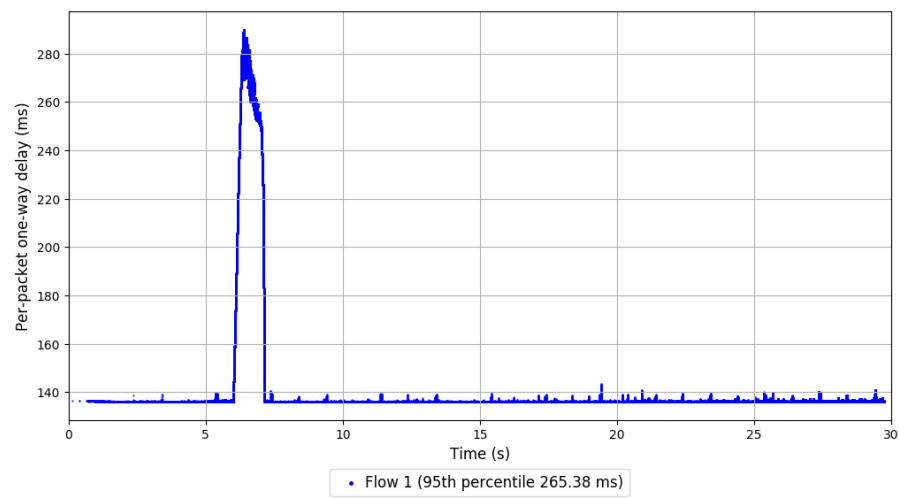
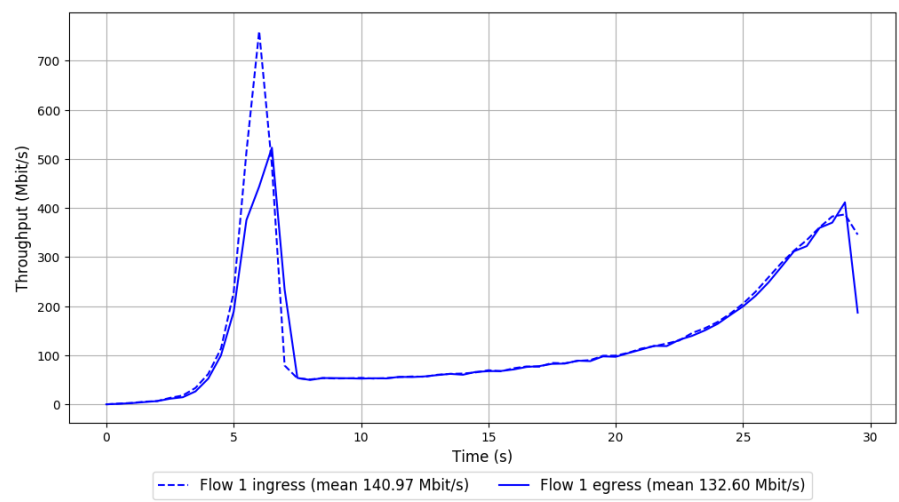
-- Flow 1:

Average throughput: 132.60 Mbit/s

95th percentile per-packet one-way delay: 265.375 ms

Loss rate: 6.80%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-03-20 23:42:39

End at: 2018-03-20 23:43:09

Below is generated by plot.py at 2018-03-21 03:53:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.23 Mbit/s

95th percentile per-packet one-way delay: 291.292 ms

Loss rate: 8.02%

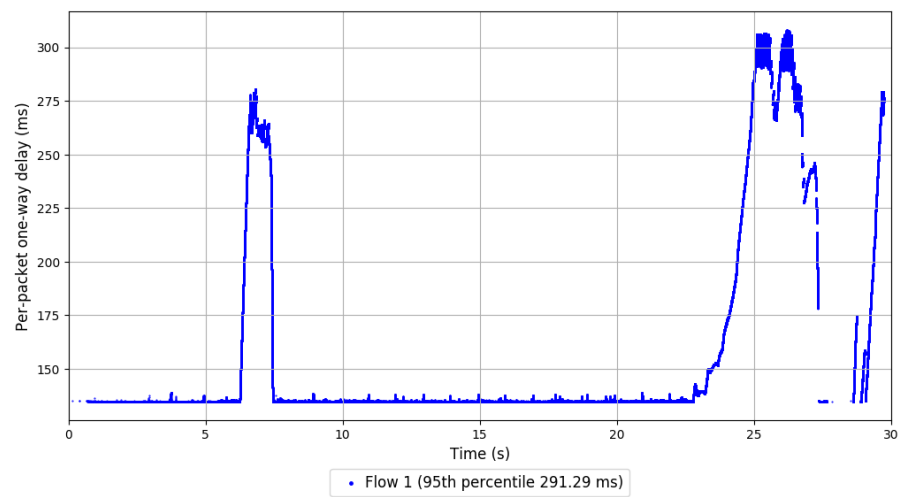
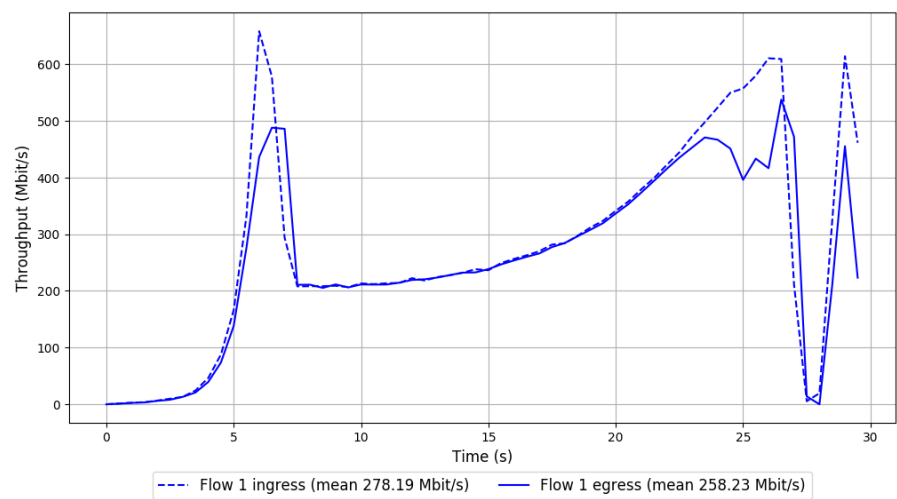
-- Flow 1:

Average throughput: 258.23 Mbit/s

95th percentile per-packet one-way delay: 291.292 ms

Loss rate: 8.02%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-03-20 23:58:39

End at: 2018-03-20 23:59:09

Below is generated by plot.py at 2018-03-21 03:53:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 159.75 Mbit/s

95th percentile per-packet one-way delay: 271.306 ms

Loss rate: 6.81%

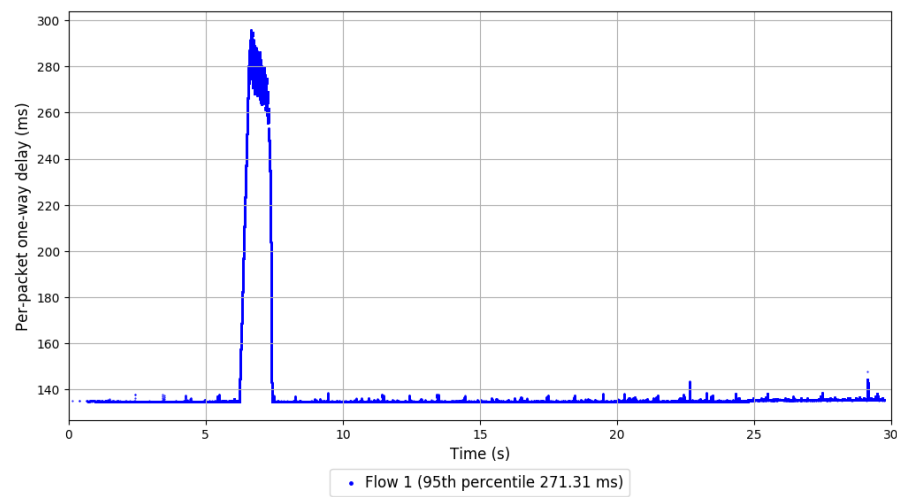
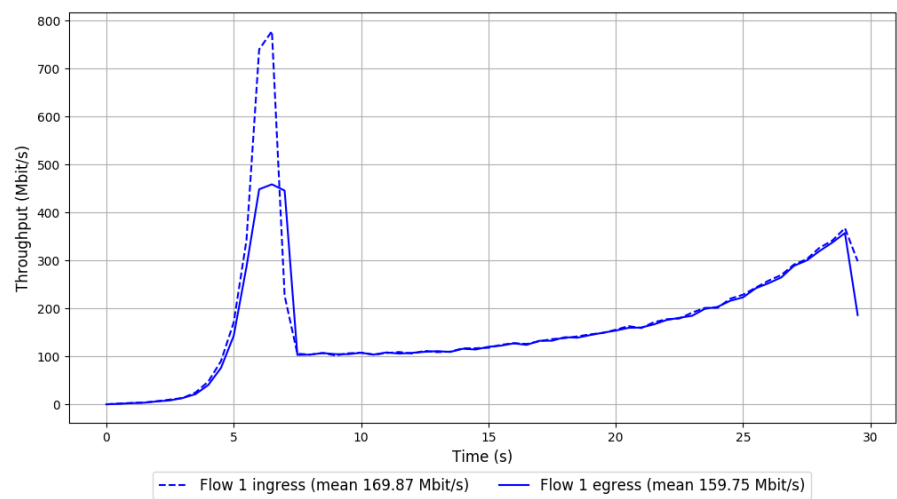
-- Flow 1:

Average throughput: 159.75 Mbit/s

95th percentile per-packet one-way delay: 271.306 ms

Loss rate: 6.81%

Run 10: Report of Vivace-loss — Data Link

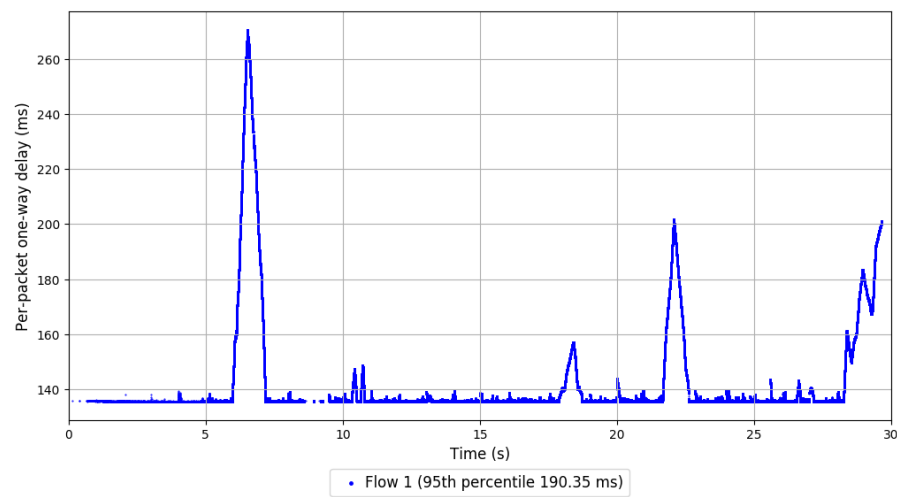
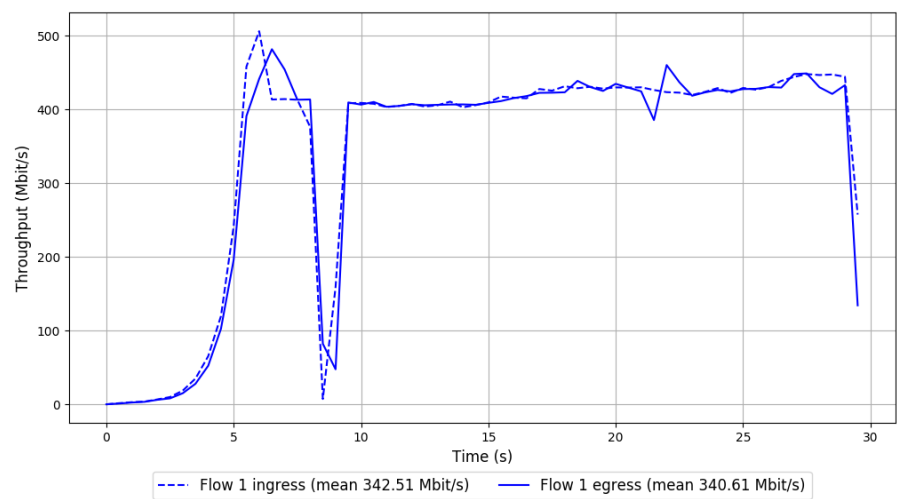


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-03-20 21:27:22
End at: 2018-03-20 21:27:52

# Below is generated by plot.py at 2018-03-21 03:56:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 340.61 Mbit/s
95th percentile per-packet one-way delay: 190.348 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 340.61 Mbit/s
95th percentile per-packet one-way delay: 190.348 ms
Loss rate: 1.46%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-03-20 21:43:16

End at: 2018-03-20 21:43:46

Below is generated by plot.py at 2018-03-21 03:57:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 334.49 Mbit/s

95th percentile per-packet one-way delay: 202.137 ms

Loss rate: 1.36%

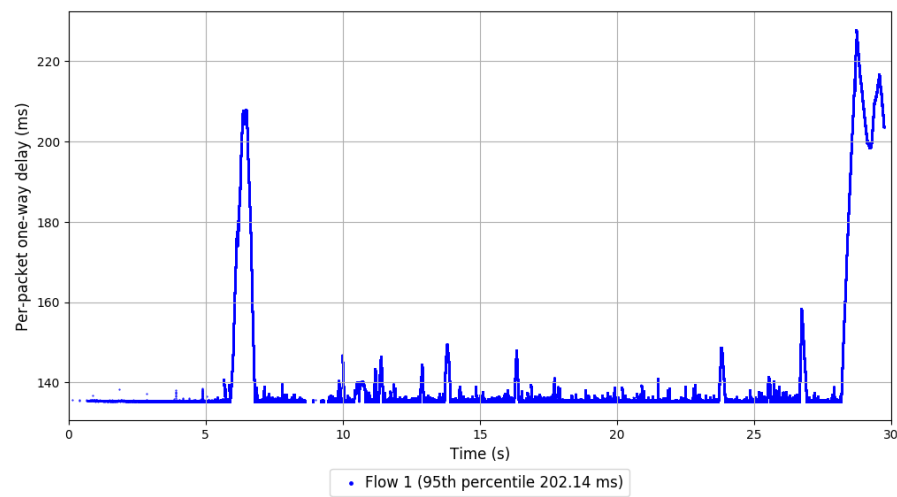
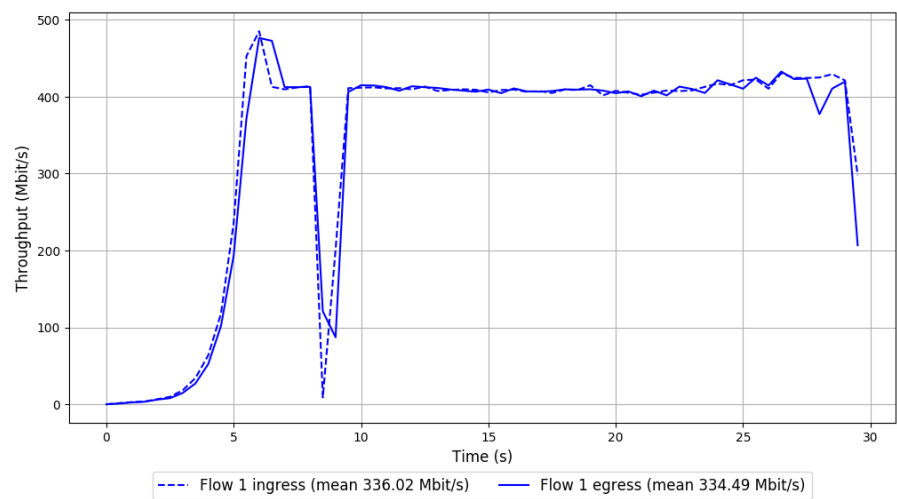
-- Flow 1:

Average throughput: 334.49 Mbit/s

95th percentile per-packet one-way delay: 202.137 ms

Loss rate: 1.36%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-03-20 21:58:51

End at: 2018-03-20 21:59:21

Below is generated by plot.py at 2018-03-21 03:57:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 326.13 Mbit/s

95th percentile per-packet one-way delay: 157.657 ms

Loss rate: 1.06%

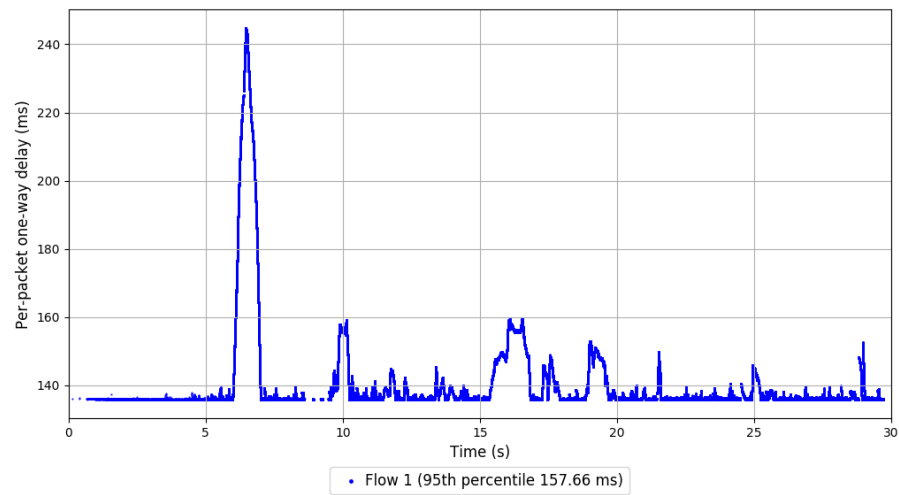
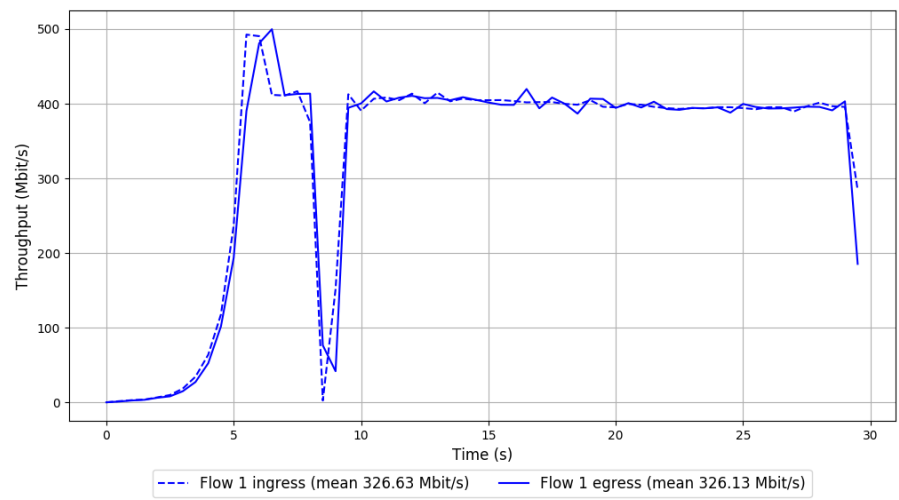
-- Flow 1:

Average throughput: 326.13 Mbit/s

95th percentile per-packet one-way delay: 157.657 ms

Loss rate: 1.06%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-03-20 22:15:04

End at: 2018-03-20 22:15:34

Below is generated by plot.py at 2018-03-21 03:58:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 338.95 Mbit/s

95th percentile per-packet one-way delay: 191.592 ms

Loss rate: 1.18%

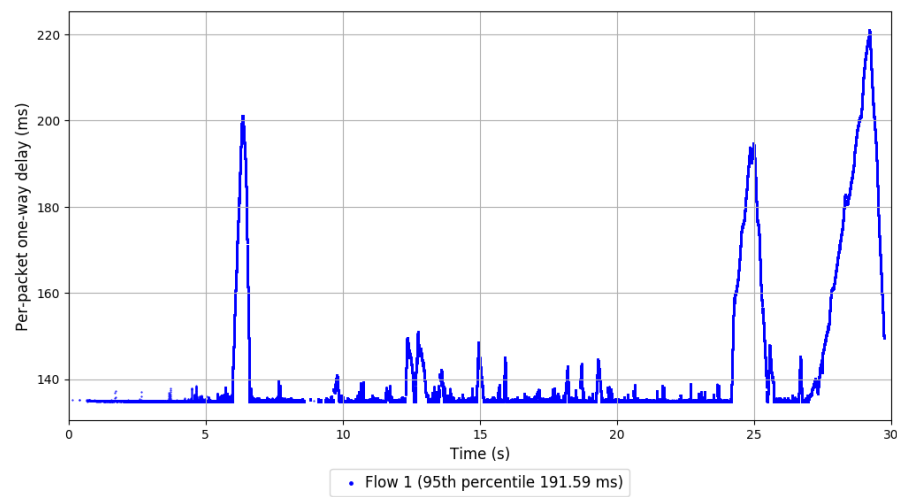
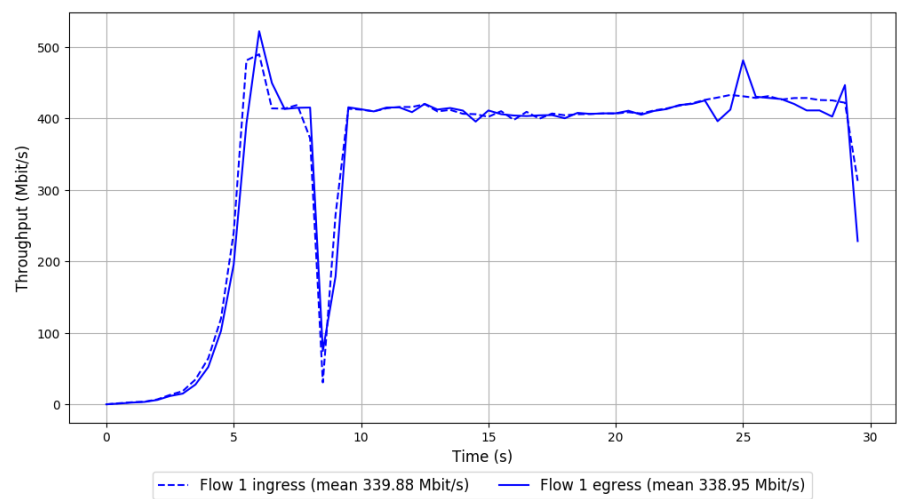
-- Flow 1:

Average throughput: 338.95 Mbit/s

95th percentile per-packet one-way delay: 191.592 ms

Loss rate: 1.18%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-03-20 22:31:03

End at: 2018-03-20 22:31:33

Below is generated by plot.py at 2018-03-21 03:58:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 263.17 Mbit/s

95th percentile per-packet one-way delay: 254.102 ms

Loss rate: 2.85%

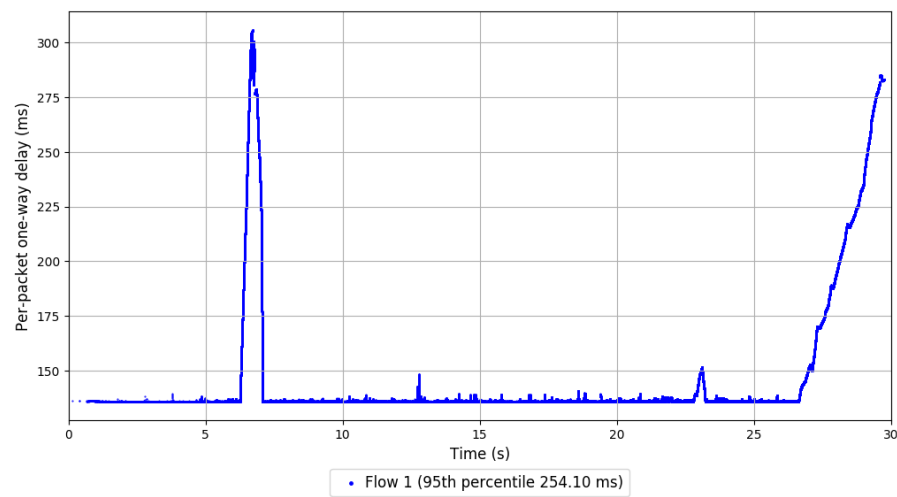
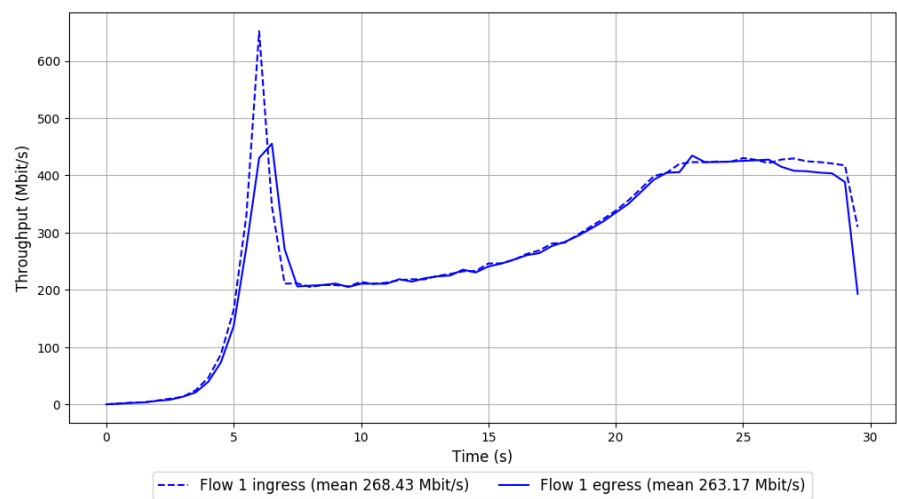
-- Flow 1:

Average throughput: 263.17 Mbit/s

95th percentile per-packet one-way delay: 254.102 ms

Loss rate: 2.85%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-03-20 22:46:57

End at: 2018-03-20 22:47:27

Below is generated by plot.py at 2018-03-21 03:58:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 335.25 Mbit/s

95th percentile per-packet one-way delay: 165.316 ms

Loss rate: 1.11%

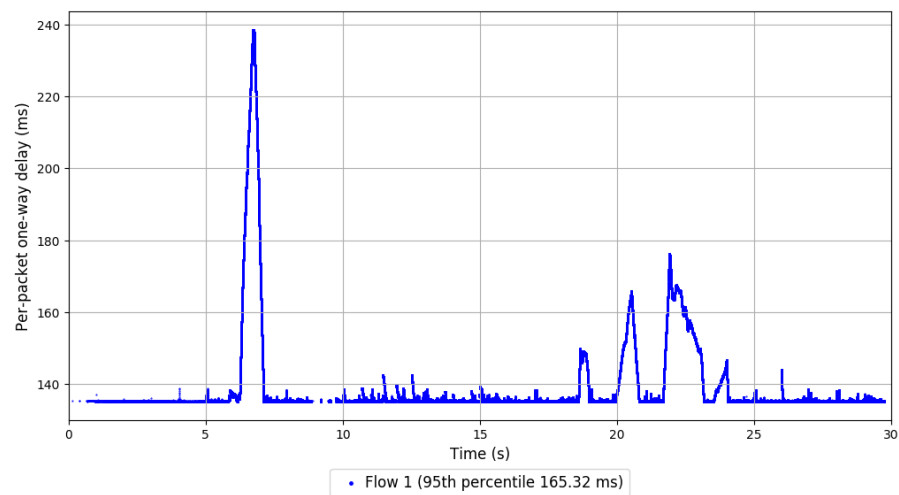
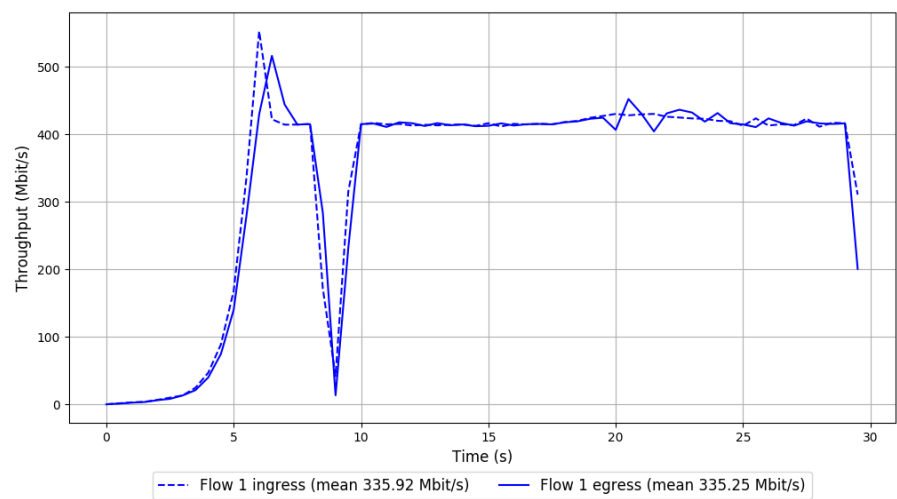
-- Flow 1:

Average throughput: 335.25 Mbit/s

95th percentile per-packet one-way delay: 165.316 ms

Loss rate: 1.11%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-03-20 23:02:46

End at: 2018-03-20 23:03:16

Below is generated by plot.py at 2018-03-21 03:58:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.44 Mbit/s

95th percentile per-packet one-way delay: 274.332 ms

Loss rate: 3.76%

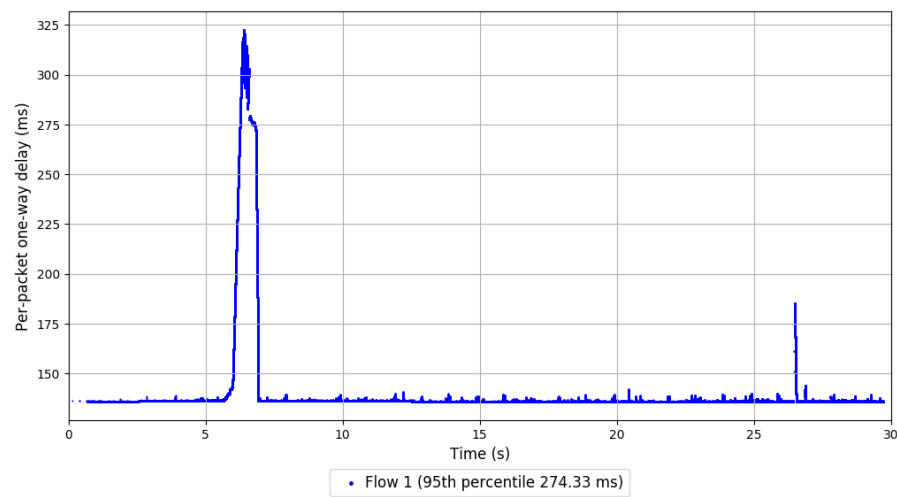
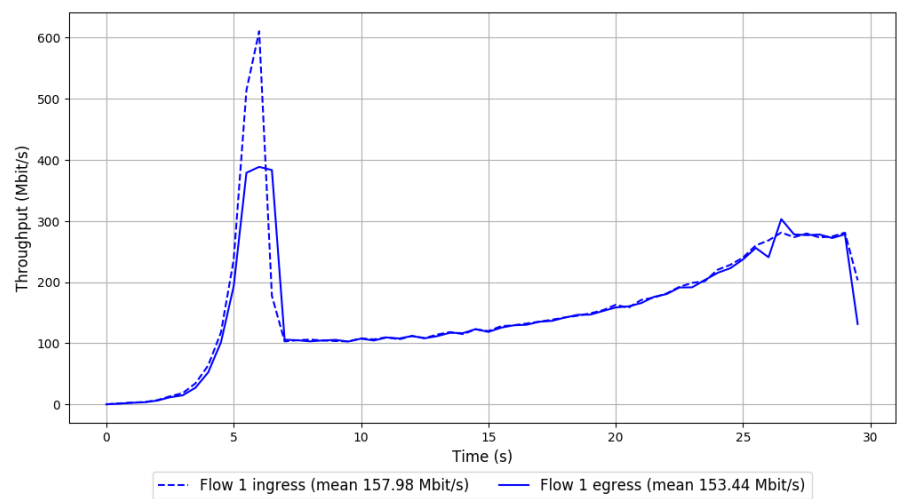
-- Flow 1:

Average throughput: 153.44 Mbit/s

95th percentile per-packet one-way delay: 274.332 ms

Loss rate: 3.76%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-03-20 23:18:37

End at: 2018-03-20 23:19:07

Below is generated by plot.py at 2018-03-21 03:58:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.89 Mbit/s

95th percentile per-packet one-way delay: 241.421 ms

Loss rate: 4.07%

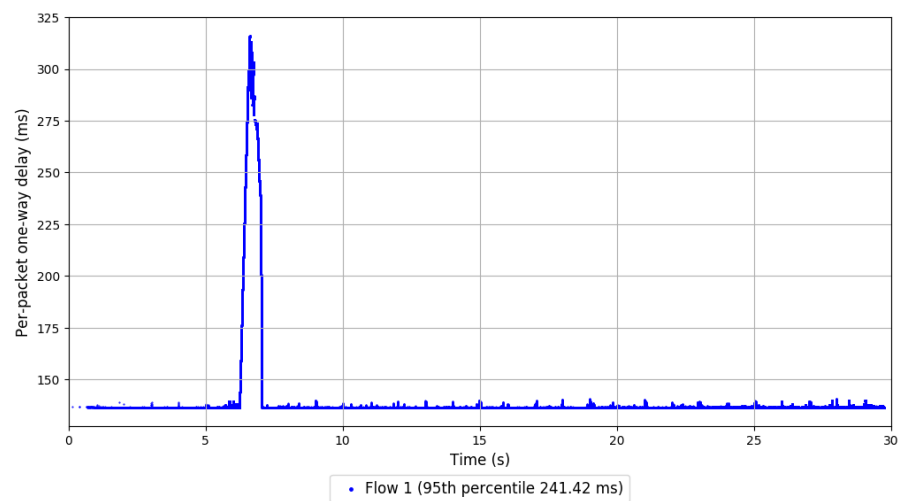
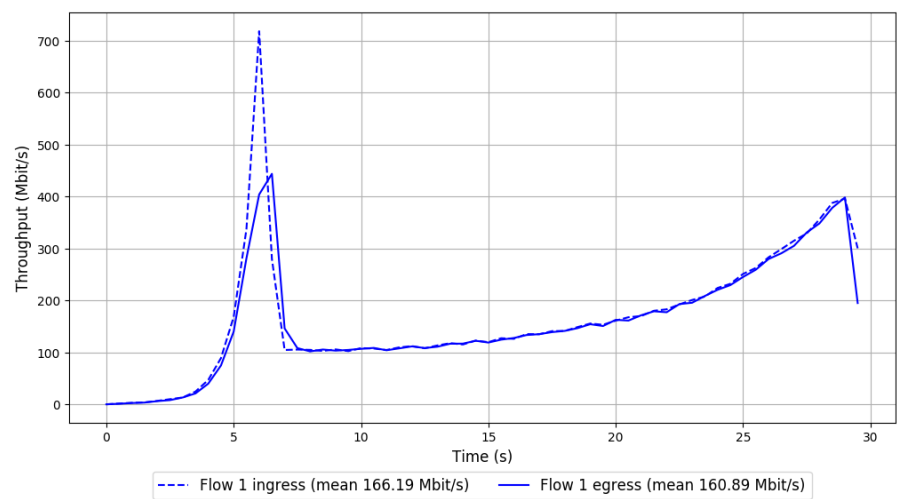
-- Flow 1:

Average throughput: 160.89 Mbit/s

95th percentile per-packet one-way delay: 241.421 ms

Loss rate: 4.07%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-03-20 23:34:23

End at: 2018-03-20 23:34:53

Below is generated by plot.py at 2018-03-21 03:58:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 269.23 Mbit/s

95th percentile per-packet one-way delay: 156.452 ms

Loss rate: 1.50%

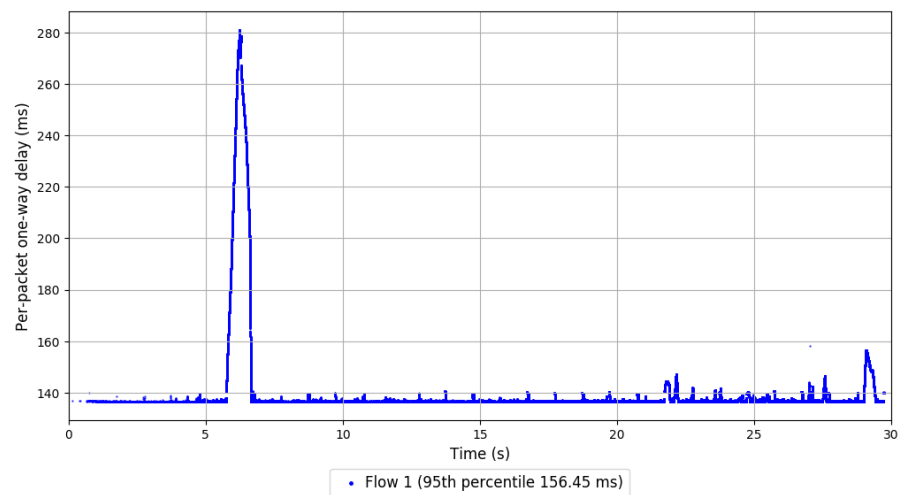
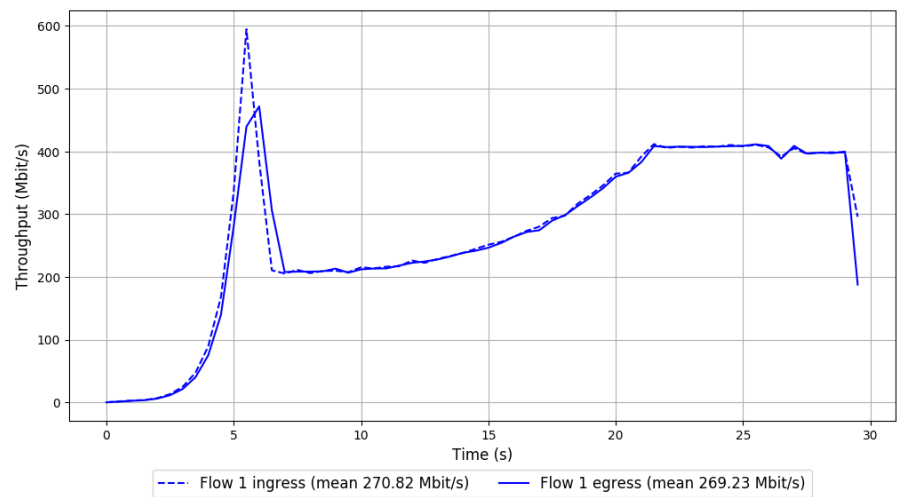
-- Flow 1:

Average throughput: 269.23 Mbit/s

95th percentile per-packet one-way delay: 156.452 ms

Loss rate: 1.50%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-03-20 23:50:16
End at: 2018-03-20 23:50:46

# Below is generated by plot.py at 2018-03-21 03:58:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 340.30 Mbit/s
95th percentile per-packet one-way delay: 208.792 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 340.30 Mbit/s
95th percentile per-packet one-way delay: 208.792 ms
Loss rate: 1.24%
```

Run 10: Report of Vivace-LTE — Data Link

