

Pantheon Report

Generated at 2018-02-13 09:44:08 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

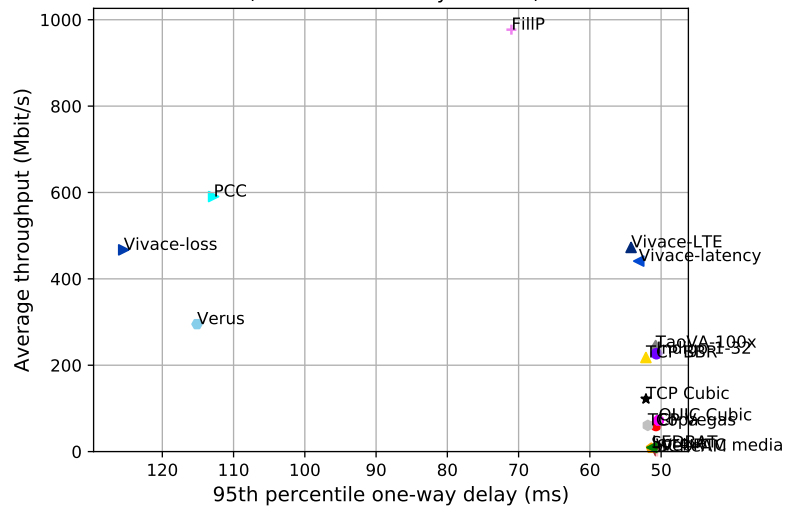
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

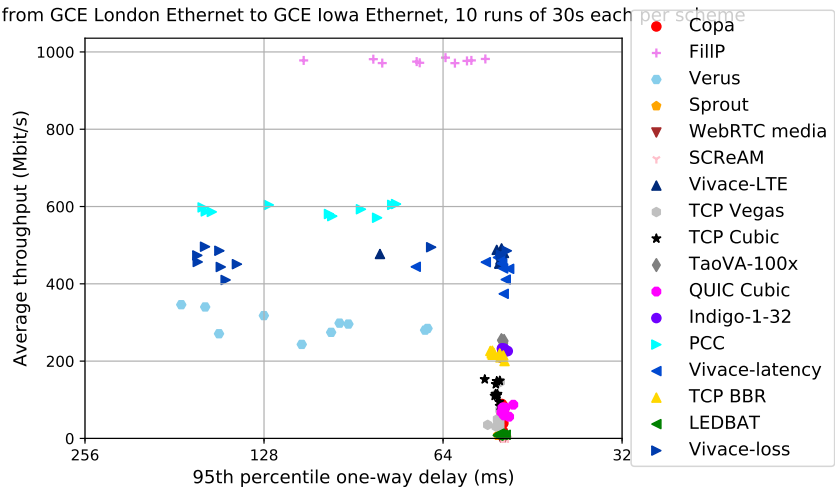
Git summary:

```
branch: master @ 2efdad57c2c56a9458b0d01ff33345e11732665
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from GCE London Ethernet to GCE Iowa Ethernet, 10 runs of 30s each



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	217.91	52.13	0.38
TCP Cubic	10	121.96	52.13	0.38
LEDBAT	10	9.46	51.30	0.46
PCC	10	590.55	112.80	0.62
QUIC Cubic	10	72.32	50.37	0.38
SCReAM	10	0.22	50.57	0.38
WebRTC media	10	2.25	50.78	0.38
Sprout	10	7.91	51.38	0.41
TaoVA-100x	10	240.74	50.76	0.34
TCP Vegas	10	60.67	51.87	0.22
Verus	10	295.13	115.13	0.69
Copa	10	60.49	50.73	0.24
FillP	10	977.03	71.01	0.42
Indigo-1-32	10	226.65	50.65	0.34
Vivace-latency	10	441.13	53.14	0.37
Vivace-loss	10	467.14	125.42	1.32
Vivace-LTE	10	472.81	54.21	0.38

Run 1: Statistics of TCP BBR

Start at: 2018-02-13 03:15:51

End at: 2018-02-13 03:16:21

Below is generated by plot.py at 2018-02-13 08:17:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.49 Mbit/s

95th percentile per-packet one-way delay: 53.290 ms

Loss rate: 0.36%

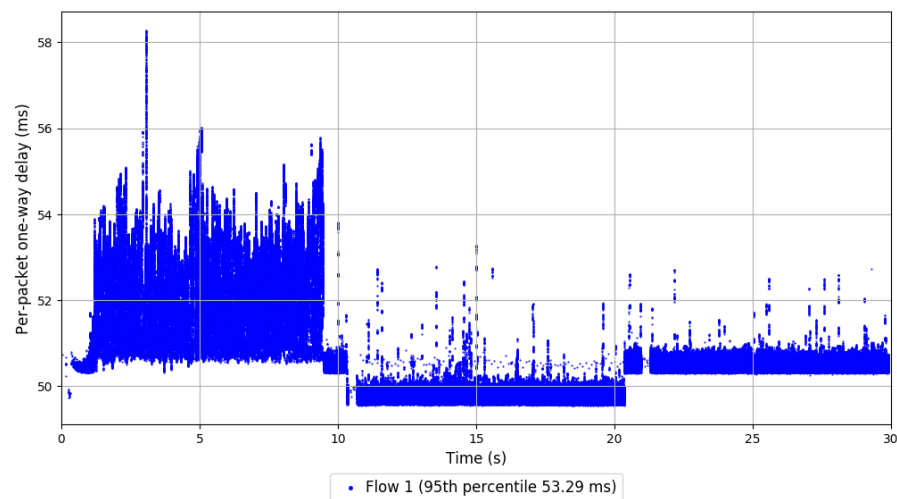
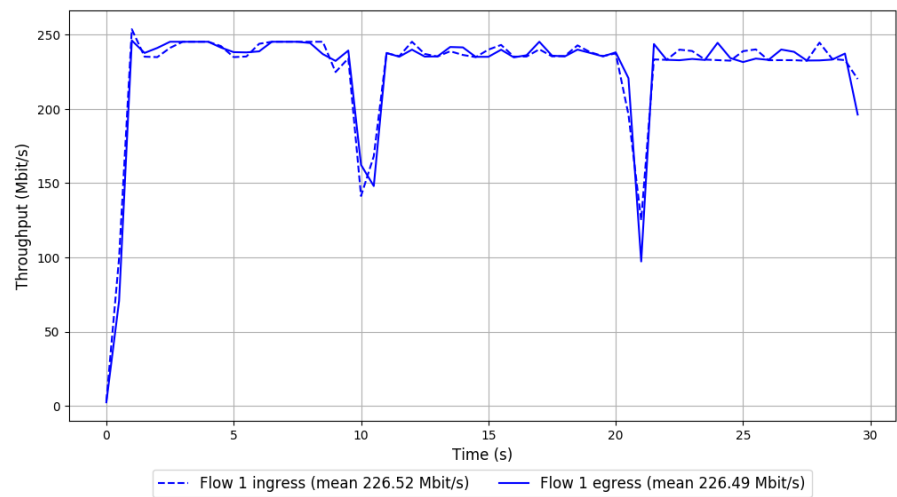
-- Flow 1:

Average throughput: 226.49 Mbit/s

95th percentile per-packet one-way delay: 53.290 ms

Loss rate: 0.36%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-13 03:30:38

End at: 2018-02-13 03:31:08

Below is generated by plot.py at 2018-02-13 08:17:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.74 Mbit/s

95th percentile per-packet one-way delay: 52.602 ms

Loss rate: 0.44%

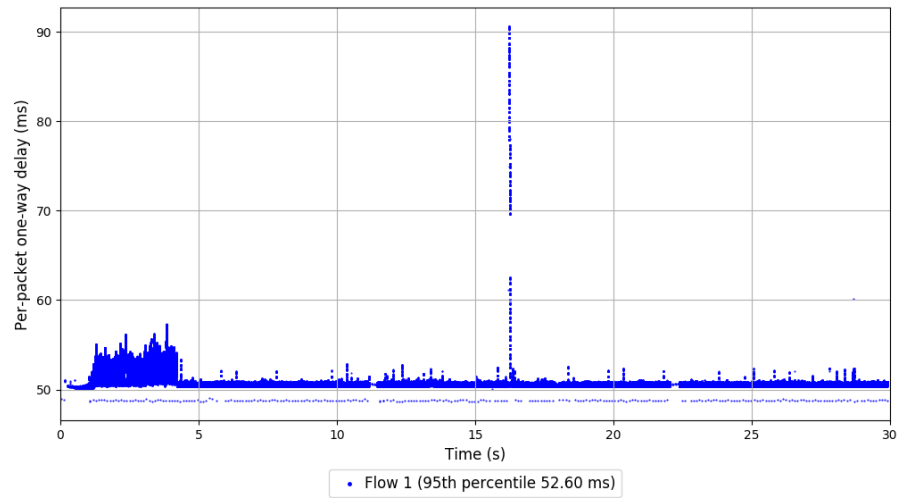
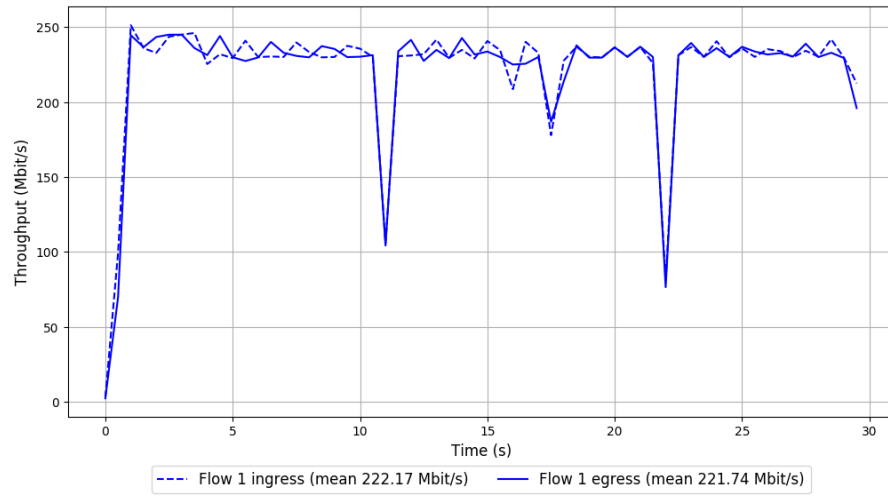
-- Flow 1:

Average throughput: 221.74 Mbit/s

95th percentile per-packet one-way delay: 52.602 ms

Loss rate: 0.44%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-13 03:45:28

End at: 2018-02-13 03:45:58

Below is generated by plot.py at 2018-02-13 08:17:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.69 Mbit/s

95th percentile per-packet one-way delay: 51.255 ms

Loss rate: 0.51%

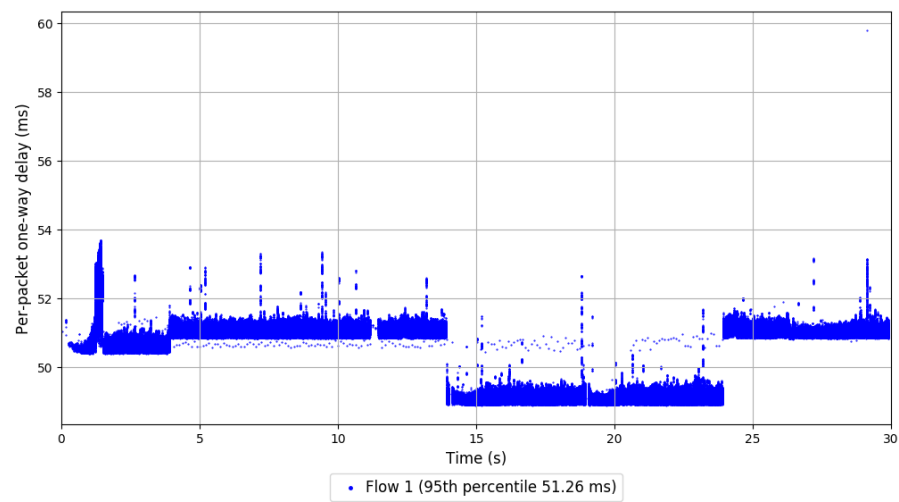
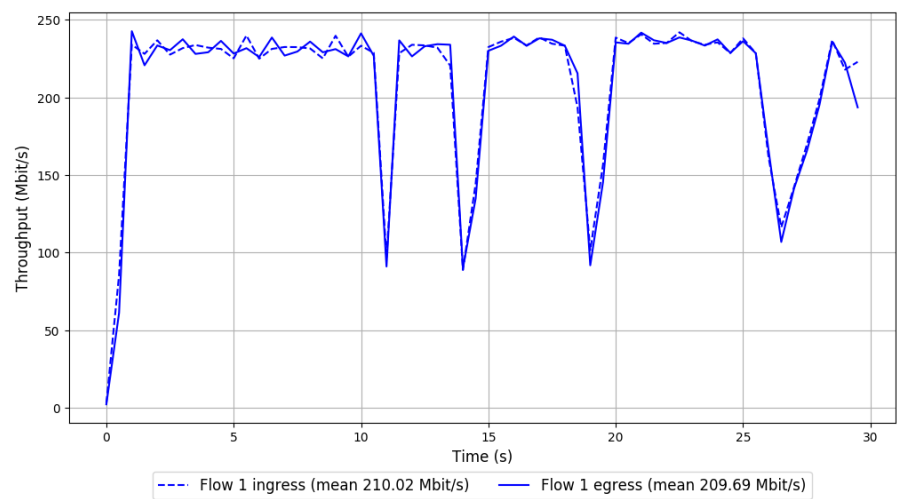
-- Flow 1:

Average throughput: 209.69 Mbit/s

95th percentile per-packet one-way delay: 51.255 ms

Loss rate: 0.51%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-13 04:00:15

End at: 2018-02-13 04:00:45

Below is generated by plot.py at 2018-02-13 08:17:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.14 Mbit/s

95th percentile per-packet one-way delay: 52.994 ms

Loss rate: 0.35%

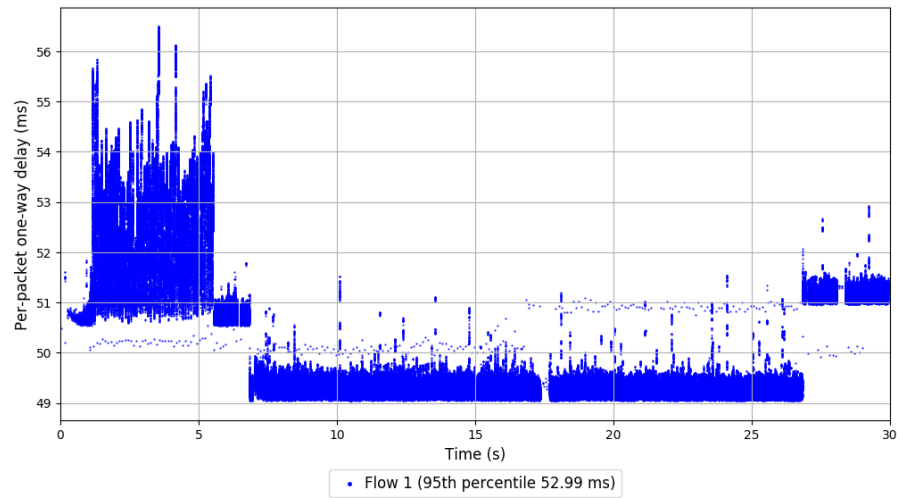
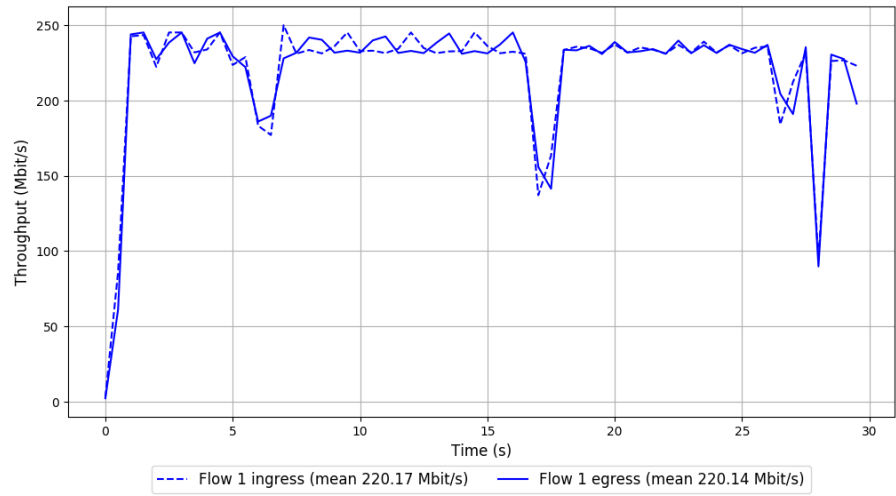
-- Flow 1:

Average throughput: 220.14 Mbit/s

95th percentile per-packet one-way delay: 52.994 ms

Loss rate: 0.35%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-13 04:14:58

End at: 2018-02-13 04:15:28

Below is generated by plot.py at 2018-02-13 08:17:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.99 Mbit/s

95th percentile per-packet one-way delay: 51.393 ms

Loss rate: 0.36%

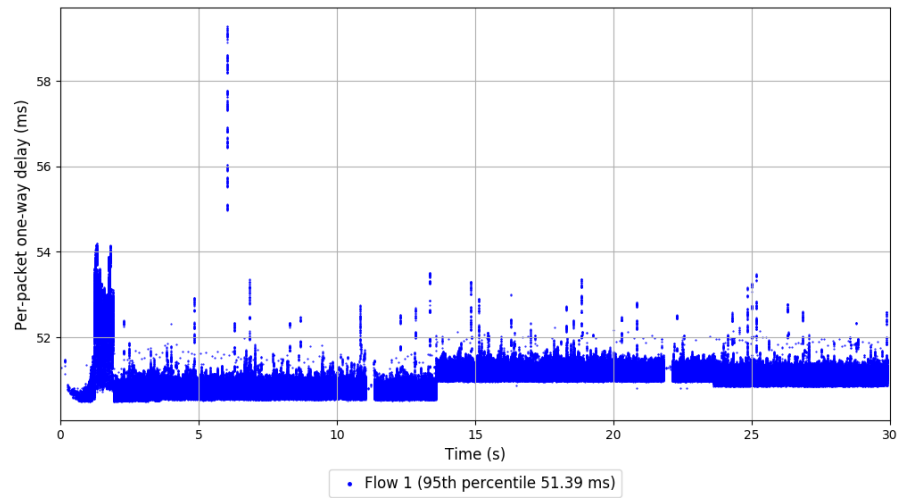
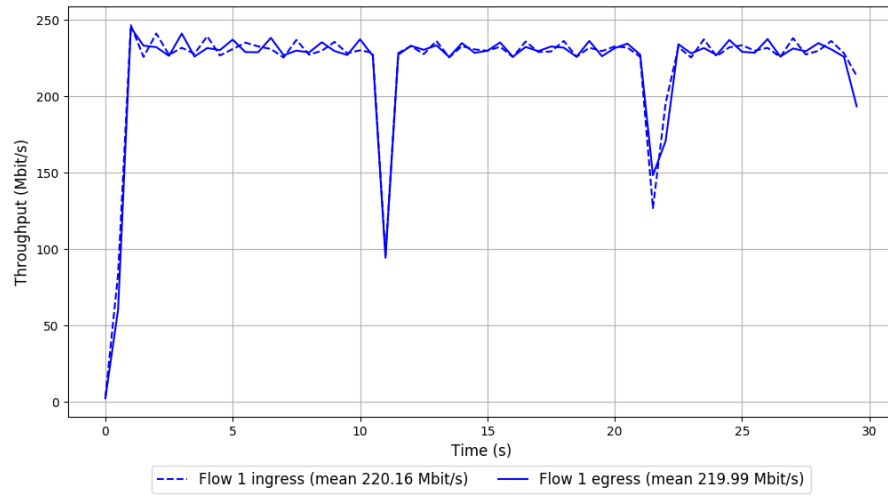
-- Flow 1:

Average throughput: 219.99 Mbit/s

95th percentile per-packet one-way delay: 51.393 ms

Loss rate: 0.36%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-13 04:29:46

End at: 2018-02-13 04:30:16

Below is generated by plot.py at 2018-02-13 08:17:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.69 Mbit/s

95th percentile per-packet one-way delay: 52.981 ms

Loss rate: 0.35%

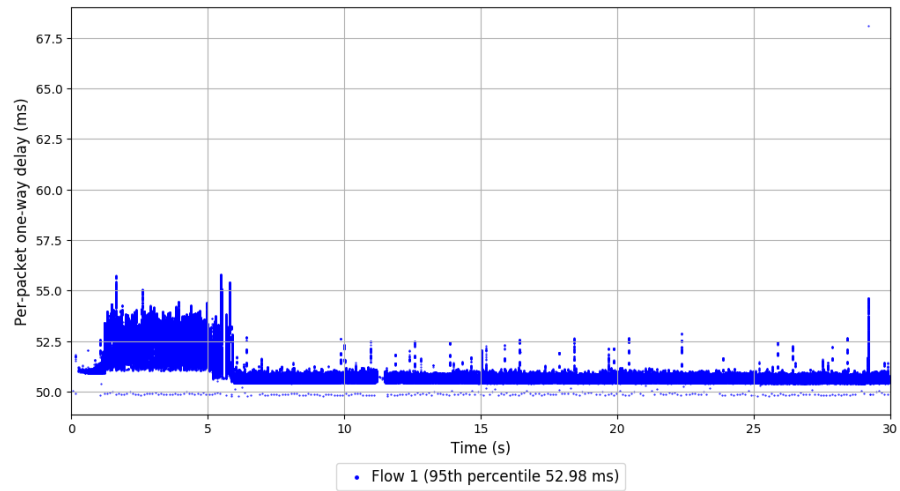
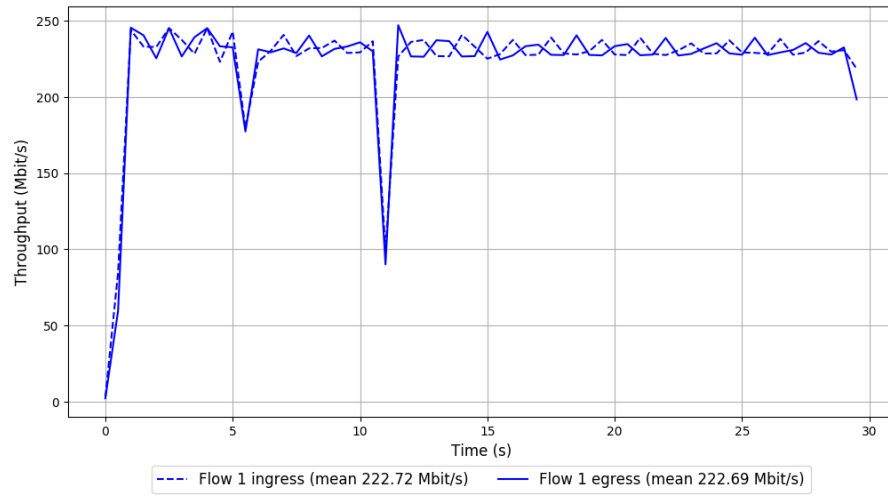
-- Flow 1:

Average throughput: 222.69 Mbit/s

95th percentile per-packet one-way delay: 52.981 ms

Loss rate: 0.35%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-13 04:44:50

End at: 2018-02-13 04:45:20

Below is generated by plot.py at 2018-02-13 08:17:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.41 Mbit/s

95th percentile per-packet one-way delay: 52.819 ms

Loss rate: 0.36%

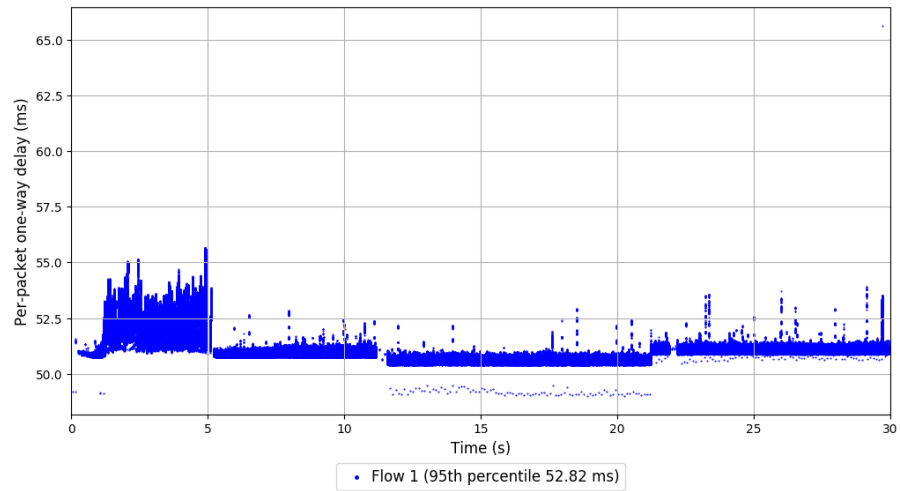
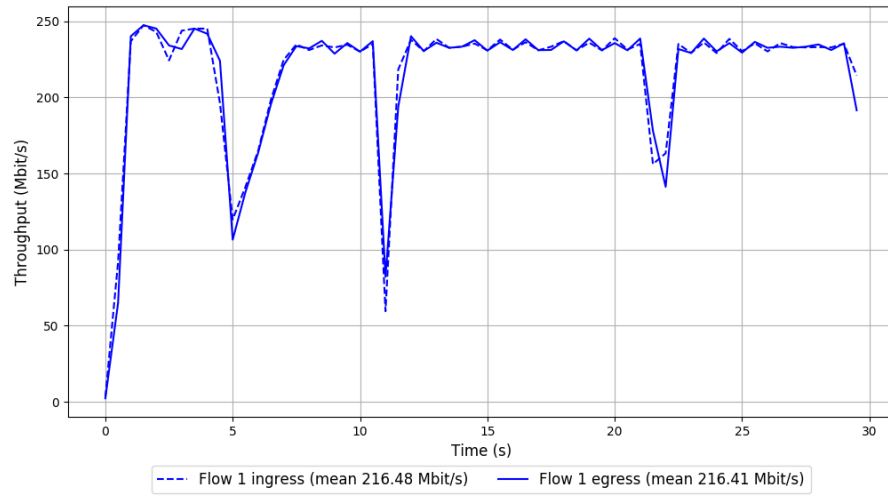
-- Flow 1:

Average throughput: 216.41 Mbit/s

95th percentile per-packet one-way delay: 52.819 ms

Loss rate: 0.36%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-13 04:59:32

End at: 2018-02-13 05:00:02

Below is generated by plot.py at 2018-02-13 08:17:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.95 Mbit/s

95th percentile per-packet one-way delay: 52.880 ms

Loss rate: 0.35%

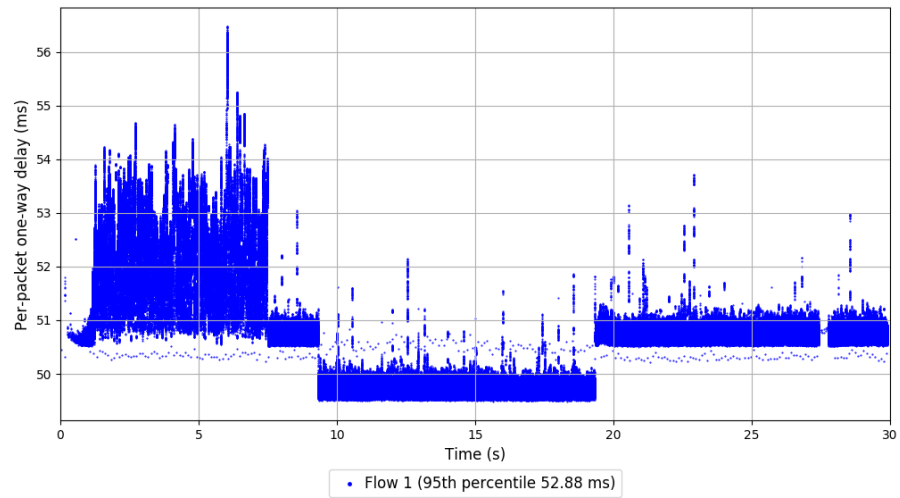
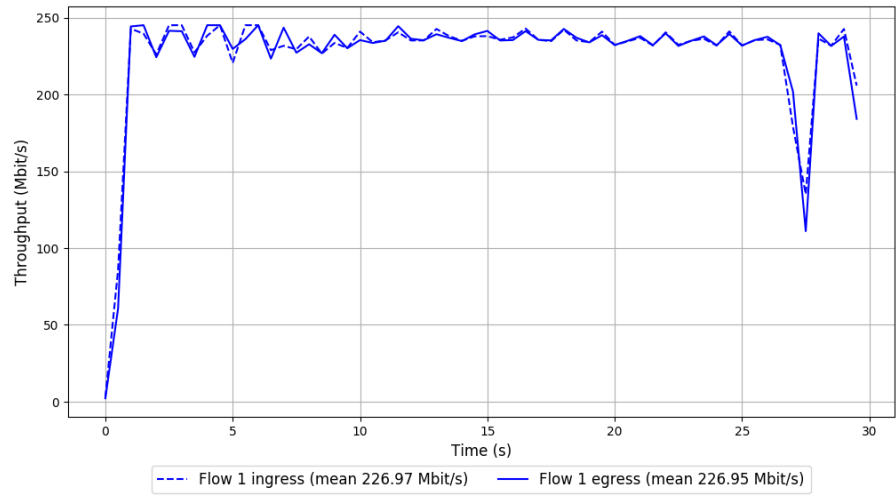
-- Flow 1:

Average throughput: 226.95 Mbit/s

95th percentile per-packet one-way delay: 52.880 ms

Loss rate: 0.35%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-13 05:14:22

End at: 2018-02-13 05:14:52

Below is generated by plot.py at 2018-02-13 08:20:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.79 Mbit/s

95th percentile per-packet one-way delay: 50.676 ms

Loss rate: 0.36%

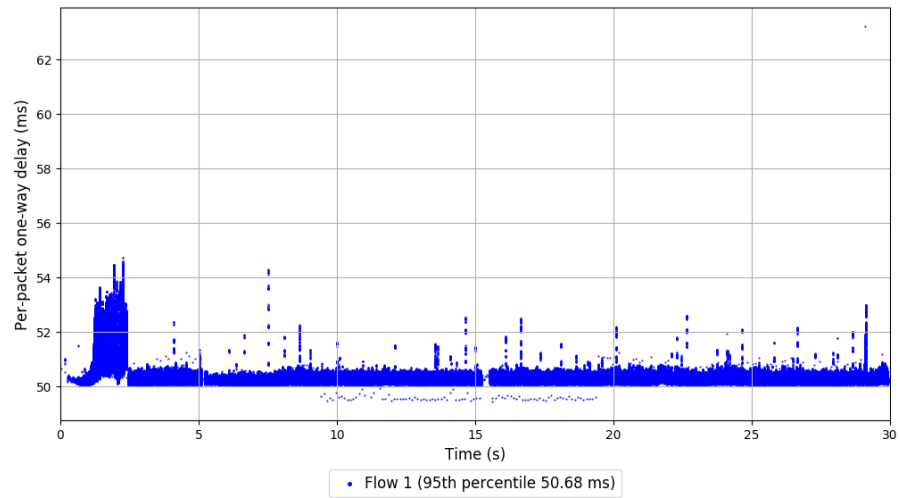
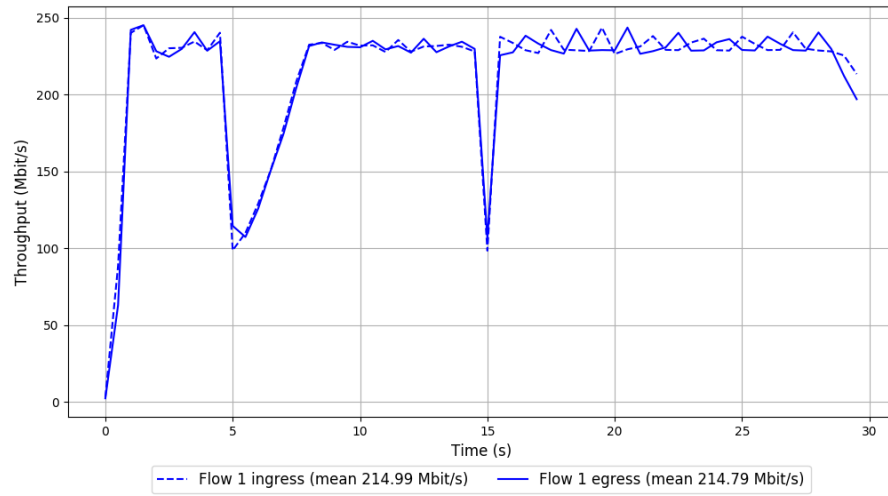
-- Flow 1:

Average throughput: 214.79 Mbit/s

95th percentile per-packet one-way delay: 50.676 ms

Loss rate: 0.36%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-13 05:29:07

End at: 2018-02-13 05:29:37

Below is generated by plot.py at 2018-02-13 08:20:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.20 Mbit/s

95th percentile per-packet one-way delay: 50.443 ms

Loss rate: 0.39%

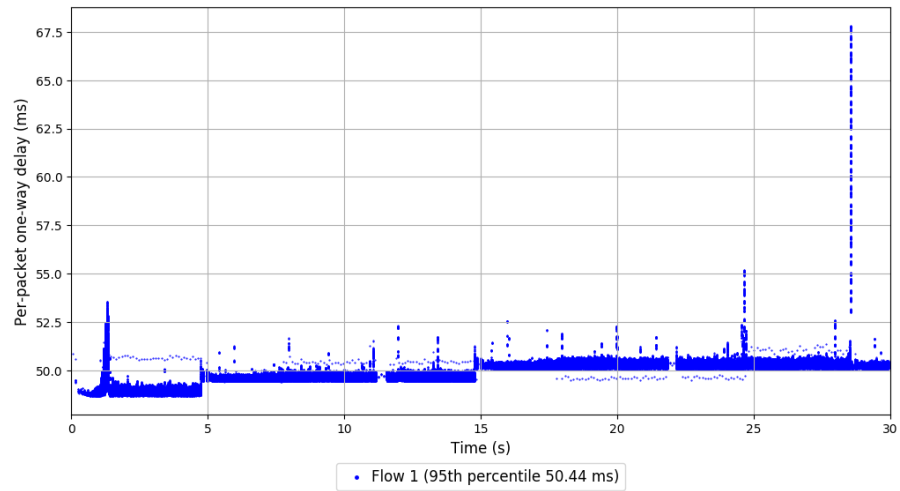
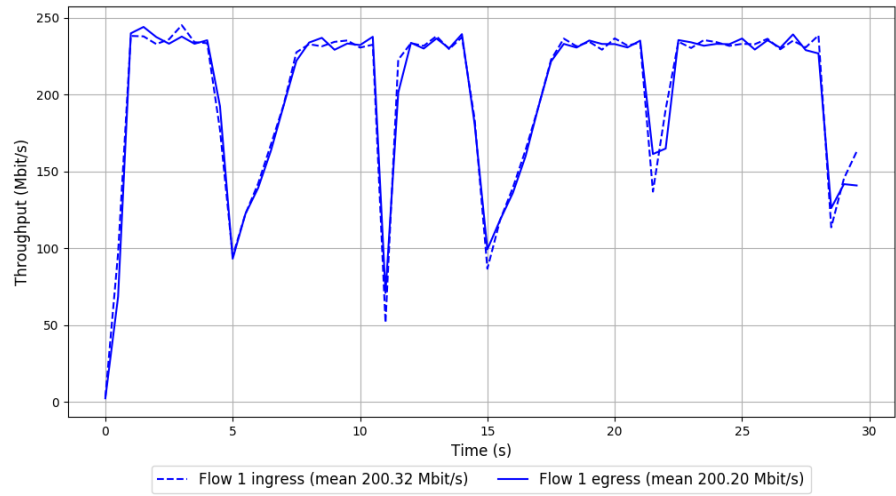
-- Flow 1:

Average throughput: 200.20 Mbit/s

95th percentile per-packet one-way delay: 50.443 ms

Loss rate: 0.39%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-13 03:13:22

End at: 2018-02-13 03:13:52

Below is generated by plot.py at 2018-02-13 08:20:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.10 Mbit/s

95th percentile per-packet one-way delay: 51.988 ms

Loss rate: 0.37%

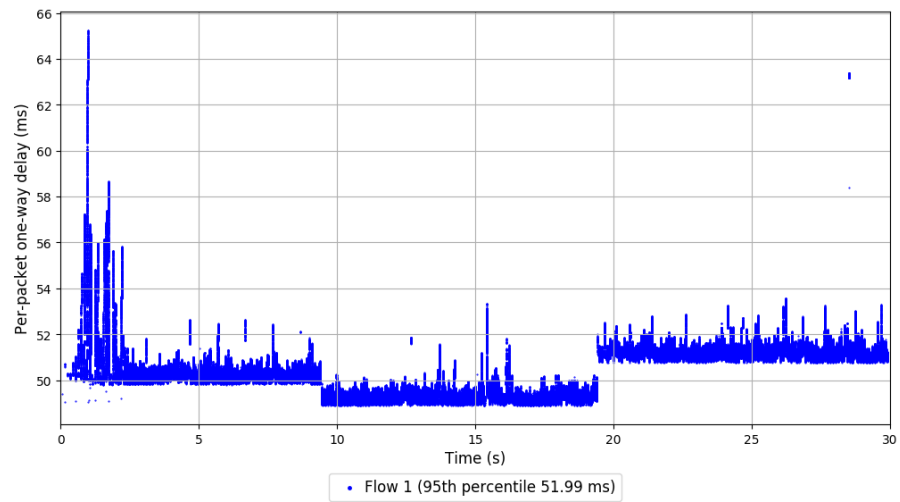
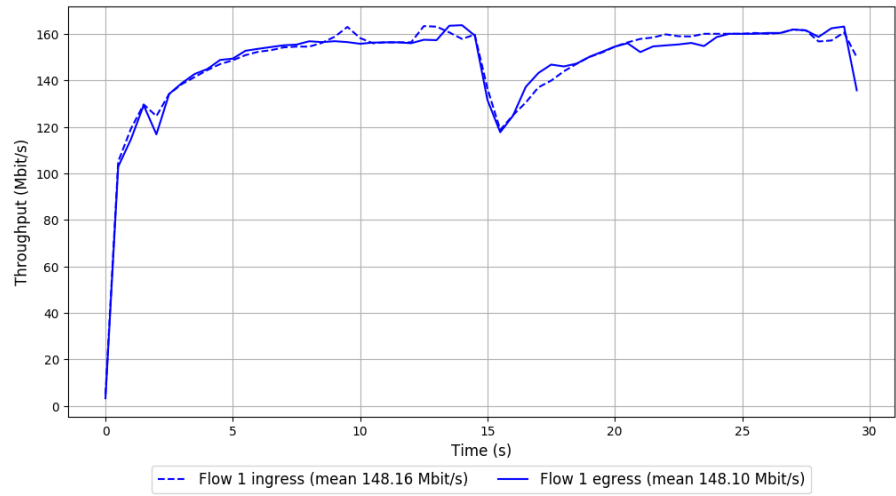
-- Flow 1:

Average throughput: 148.10 Mbit/s

95th percentile per-packet one-way delay: 51.988 ms

Loss rate: 0.37%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-13 03:28:16

End at: 2018-02-13 03:28:46

Below is generated by plot.py at 2018-02-13 08:20:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.91 Mbit/s

95th percentile per-packet one-way delay: 51.377 ms

Loss rate: 0.35%

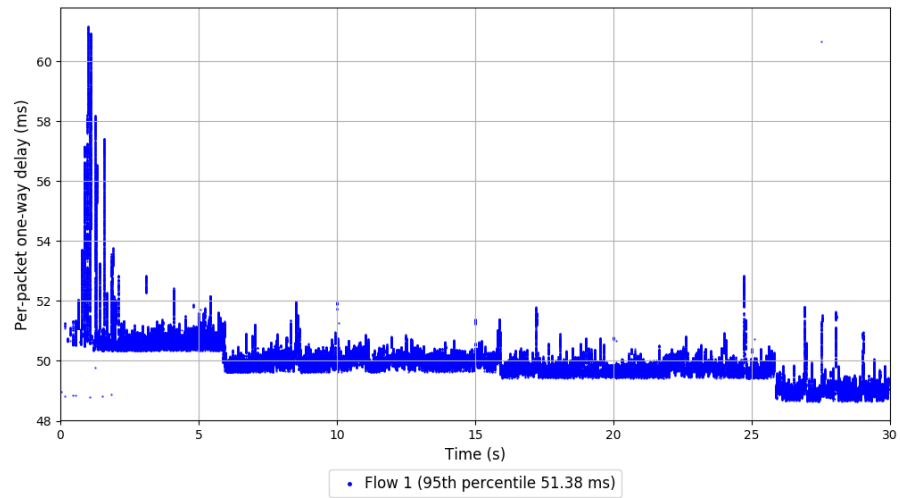
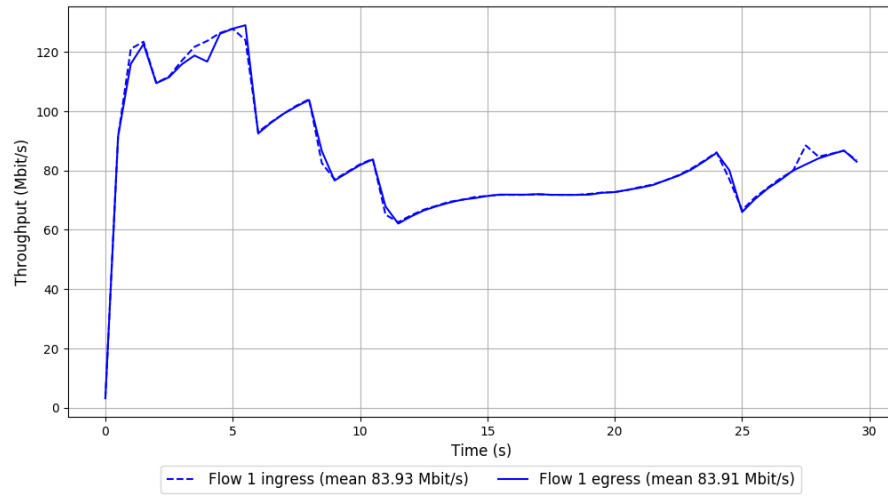
-- Flow 1:

Average throughput: 83.91 Mbit/s

95th percentile per-packet one-way delay: 51.377 ms

Loss rate: 0.35%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-13 03:43:02

End at: 2018-02-13 03:43:32

Below is generated by plot.py at 2018-02-13 08:20:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.53 Mbit/s

95th percentile per-packet one-way delay: 51.492 ms

Loss rate: 0.27%

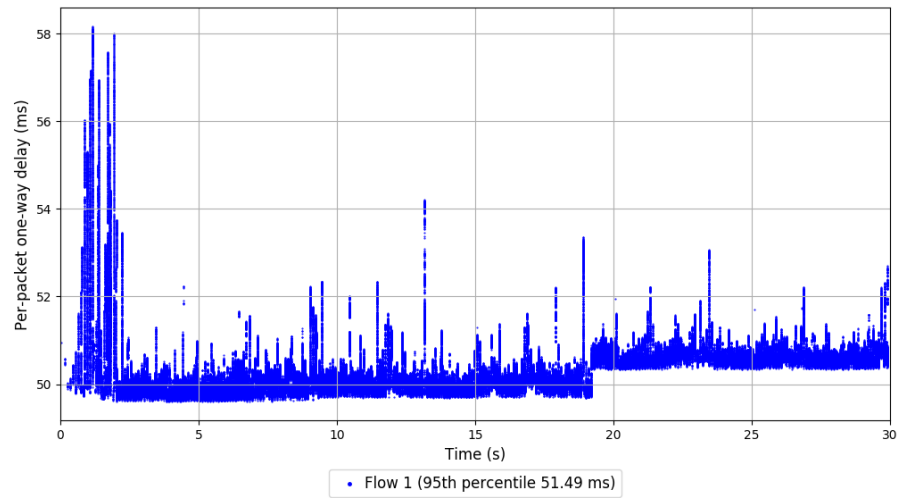
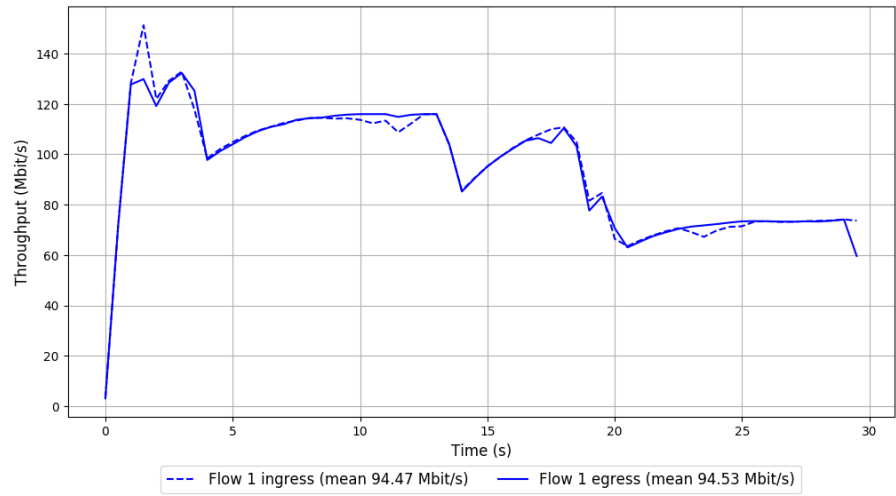
-- Flow 1:

Average throughput: 94.53 Mbit/s

95th percentile per-packet one-way delay: 51.492 ms

Loss rate: 0.27%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-13 03:57:50

End at: 2018-02-13 03:58:20

Below is generated by plot.py at 2018-02-13 08:20:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 110.77 Mbit/s

95th percentile per-packet one-way delay: 51.943 ms

Loss rate: 0.44%

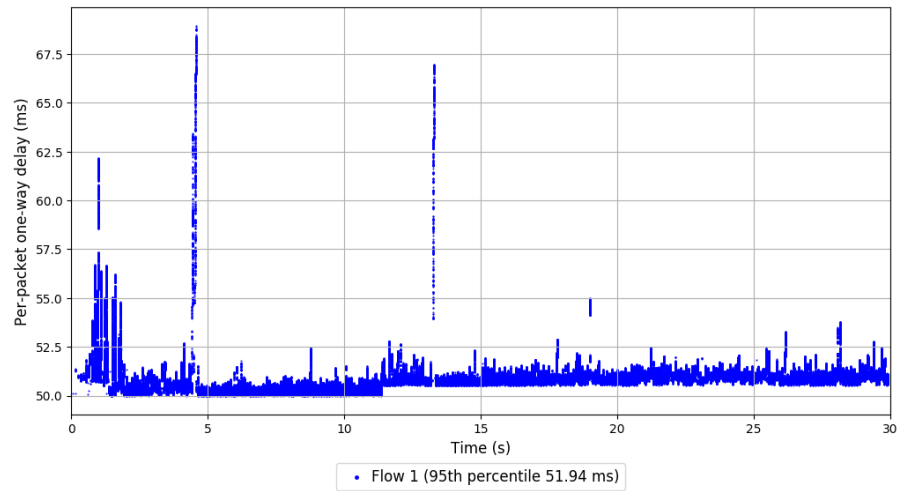
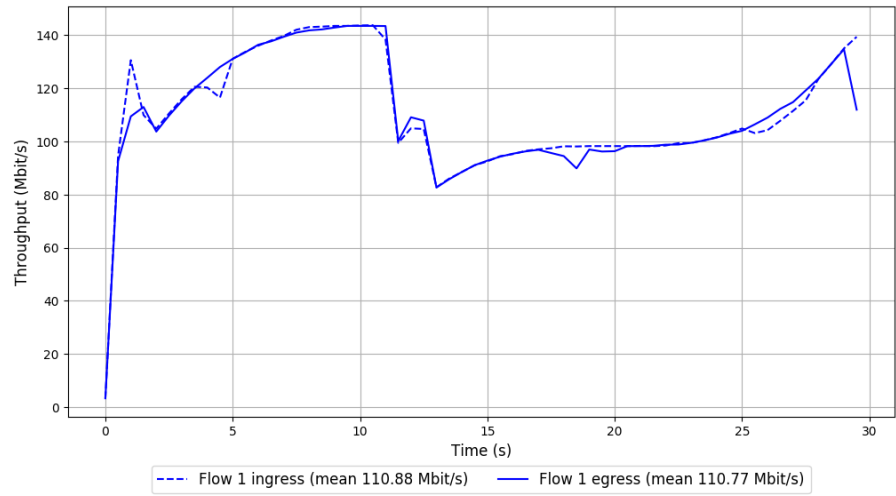
-- Flow 1:

Average throughput: 110.77 Mbit/s

95th percentile per-packet one-way delay: 51.943 ms

Loss rate: 0.44%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-13 04:12:31

End at: 2018-02-13 04:13:02

Below is generated by plot.py at 2018-02-13 08:20:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 110.05 Mbit/s

95th percentile per-packet one-way delay: 52.402 ms

Loss rate: 0.43%

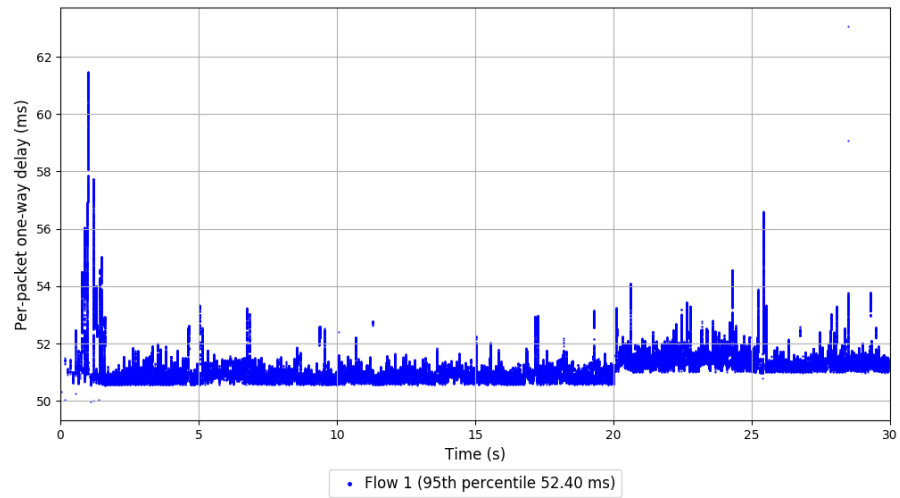
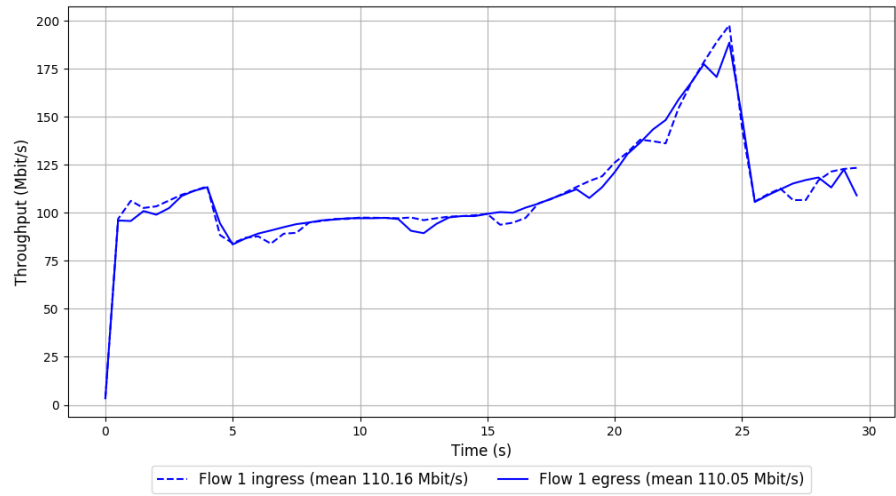
-- Flow 1:

Average throughput: 110.05 Mbit/s

95th percentile per-packet one-way delay: 52.402 ms

Loss rate: 0.43%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-13 04:27:20

End at: 2018-02-13 04:27:50

Below is generated by plot.py at 2018-02-13 08:20:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 114.95 Mbit/s

95th percentile per-packet one-way delay: 52.220 ms

Loss rate: 0.37%

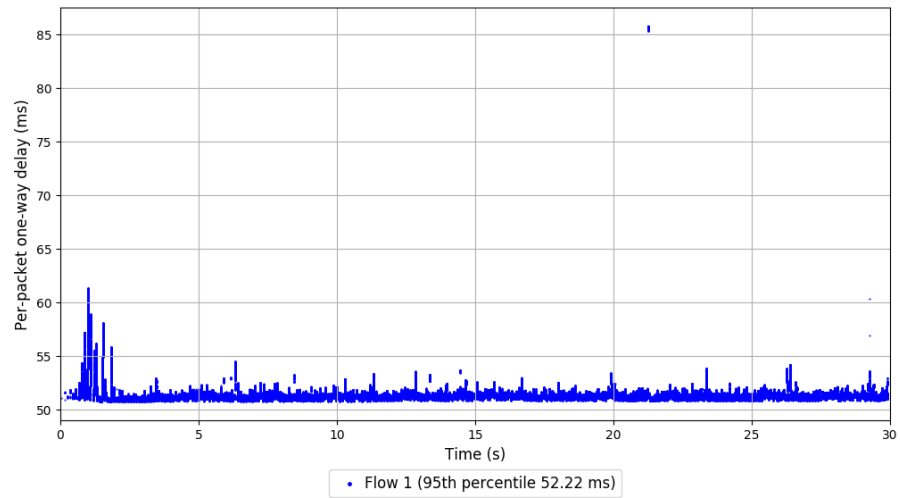
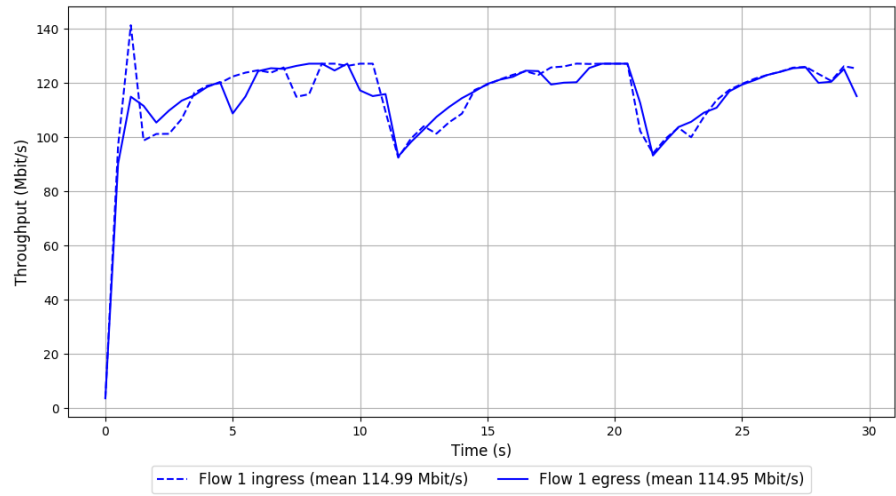
-- Flow 1:

Average throughput: 114.95 Mbit/s

95th percentile per-packet one-way delay: 52.220 ms

Loss rate: 0.37%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-13 04:42:24

End at: 2018-02-13 04:42:54

Below is generated by plot.py at 2018-02-13 08:21:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.94 Mbit/s

95th percentile per-packet one-way delay: 54.457 ms

Loss rate: 0.35%

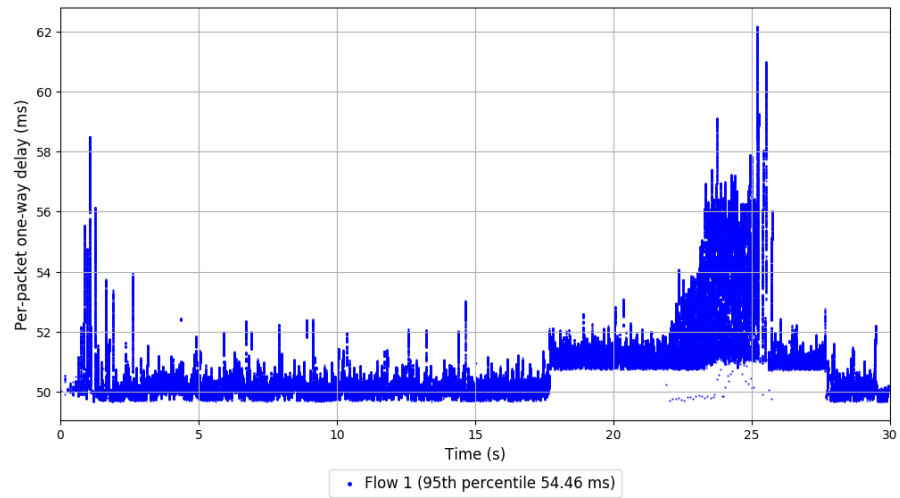
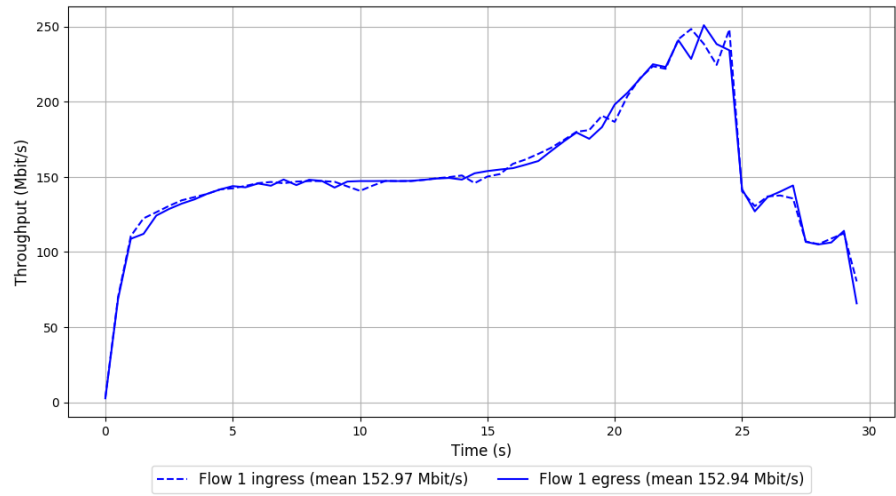
-- Flow 1:

Average throughput: 152.94 Mbit/s

95th percentile per-packet one-way delay: 54.457 ms

Loss rate: 0.35%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-13 04:57:11

End at: 2018-02-13 04:57:41

Below is generated by plot.py at 2018-02-13 08:21:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 114.94 Mbit/s

95th percentile per-packet one-way delay: 51.851 ms

Loss rate: 0.72%

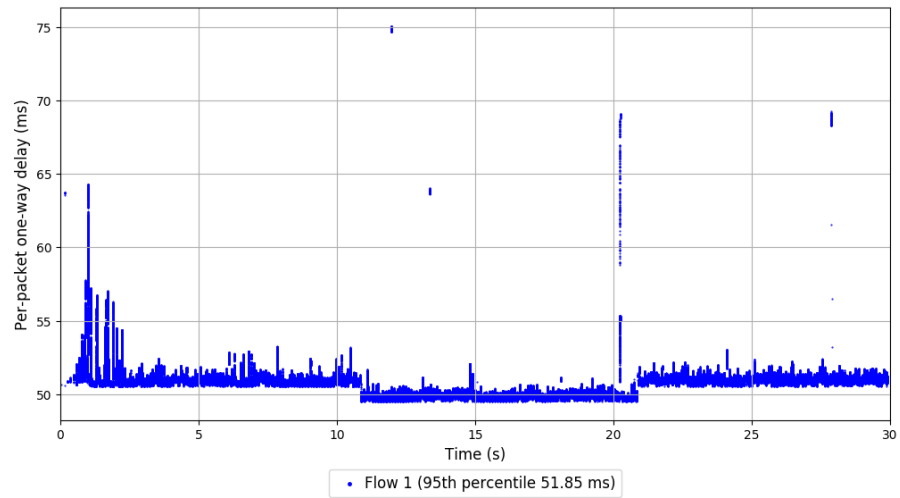
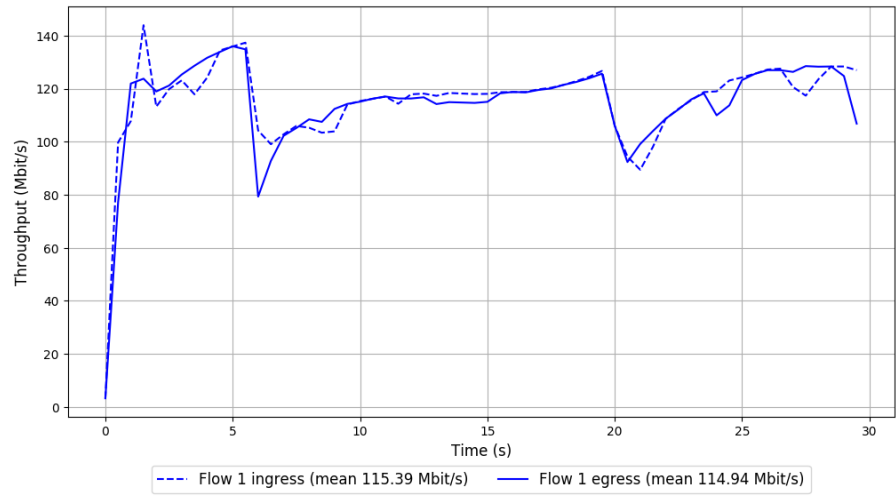
-- Flow 1:

Average throughput: 114.94 Mbit/s

95th percentile per-packet one-way delay: 51.851 ms

Loss rate: 0.72%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-13 05:11:53

End at: 2018-02-13 05:12:23

Below is generated by plot.py at 2018-02-13 08:21:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.23 Mbit/s

95th percentile per-packet one-way delay: 51.379 ms

Loss rate: 0.28%

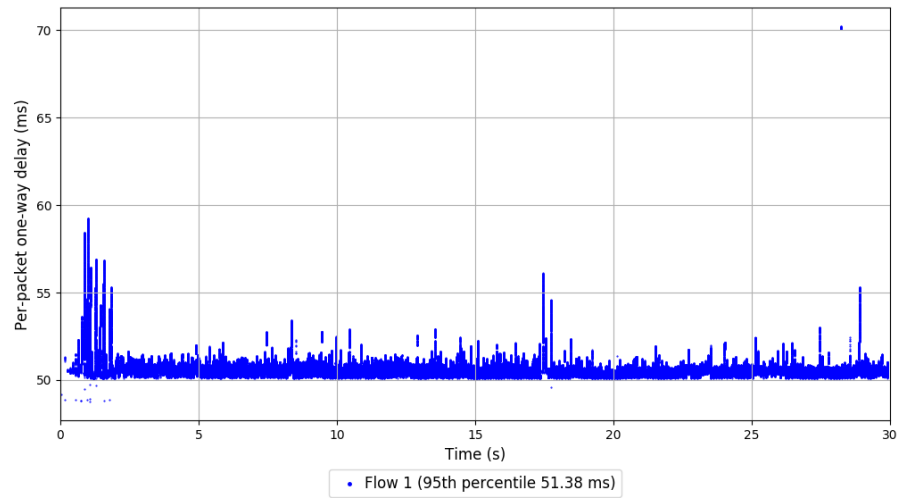
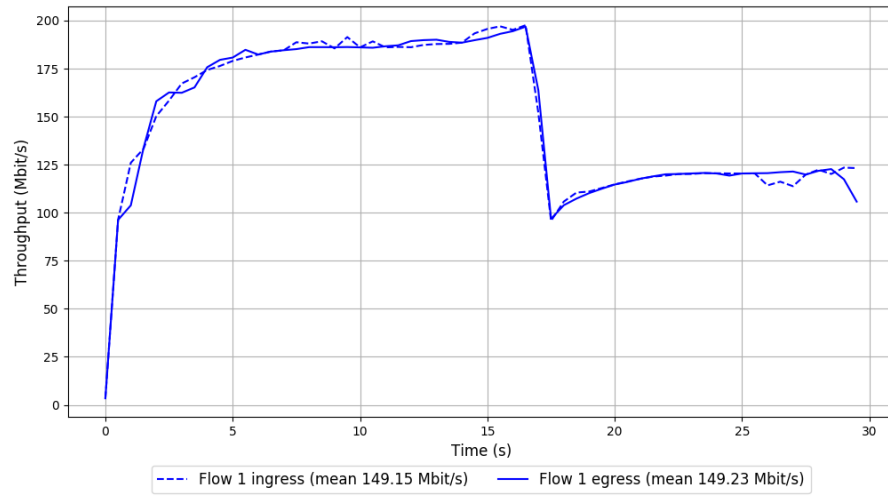
-- Flow 1:

Average throughput: 149.23 Mbit/s

95th percentile per-packet one-way delay: 51.379 ms

Loss rate: 0.28%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-13 05:26:40

End at: 2018-02-13 05:27:10

Below is generated by plot.py at 2018-02-13 08:21:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 140.19 Mbit/s

95th percentile per-packet one-way delay: 52.166 ms

Loss rate: 0.25%

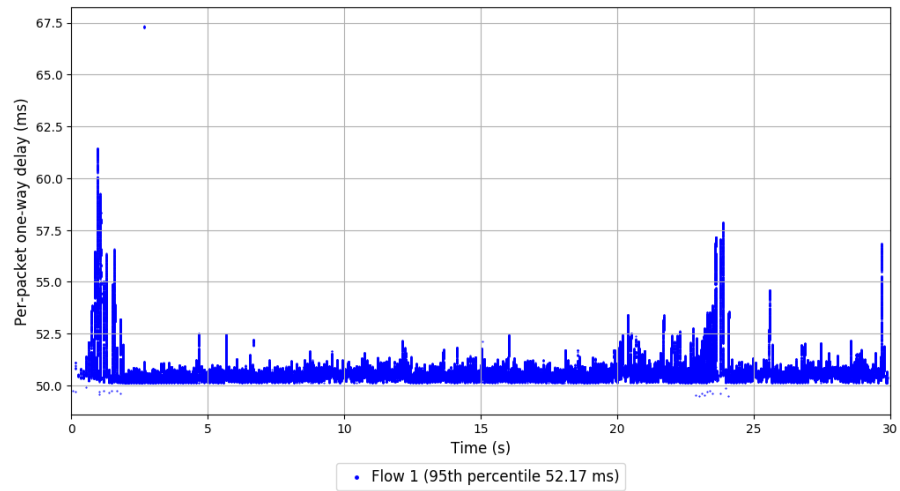
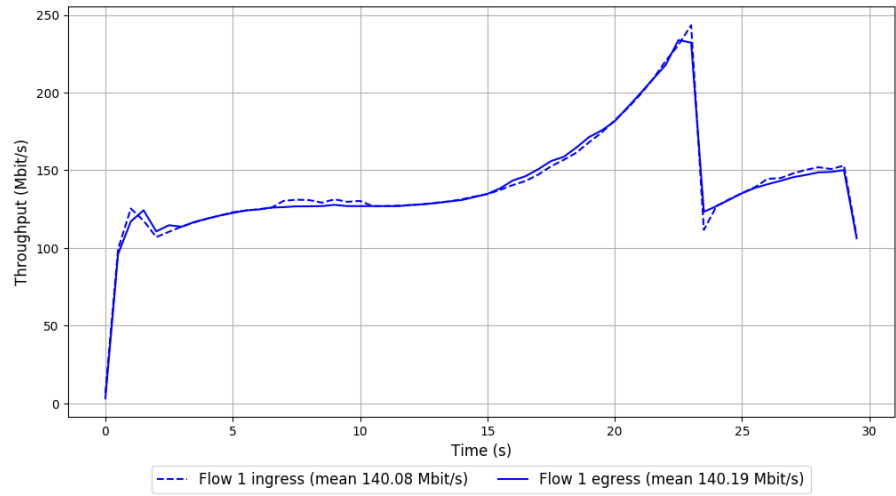
-- Flow 1:

Average throughput: 140.19 Mbit/s

95th percentile per-packet one-way delay: 52.166 ms

Loss rate: 0.25%

Run 10: Report of TCP Cubic — Data Link

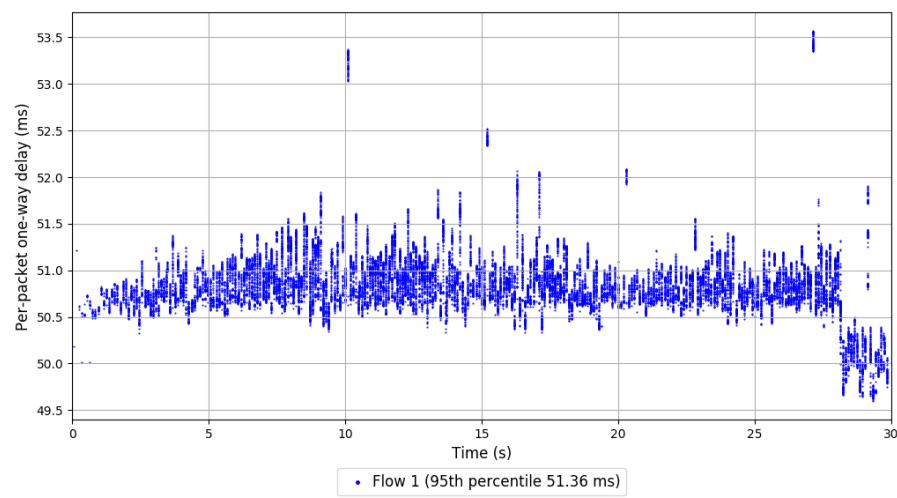
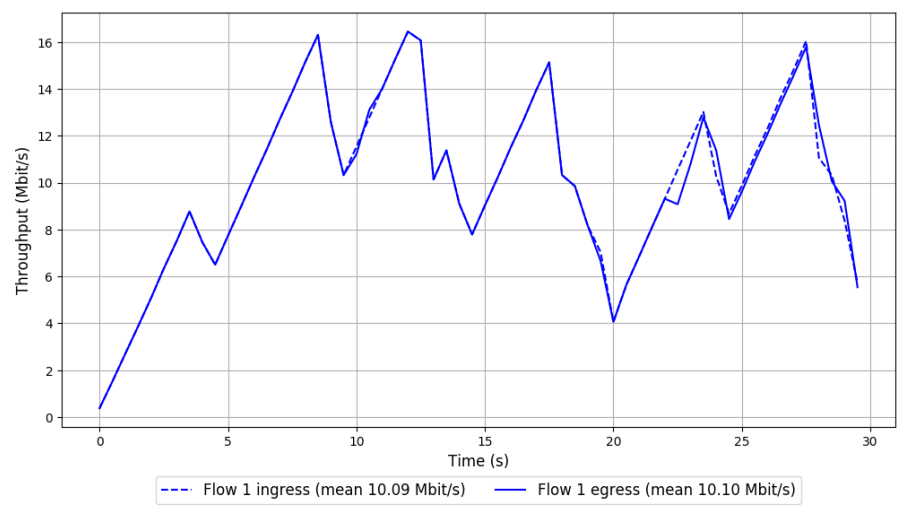


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-13 03:15:13
End at: 2018-02-13 03:15:43

# Below is generated by plot.py at 2018-02-13 08:21:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.10 Mbit/s
95th percentile per-packet one-way delay: 51.362 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 10.10 Mbit/s
95th percentile per-packet one-way delay: 51.362 ms
Loss rate: 0.31%
```


Run 1: Report of LEDBAT — Data Link

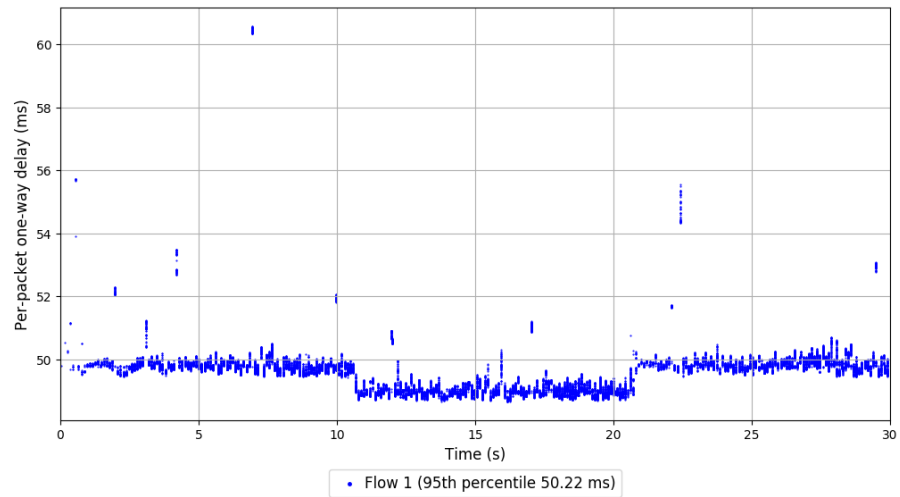
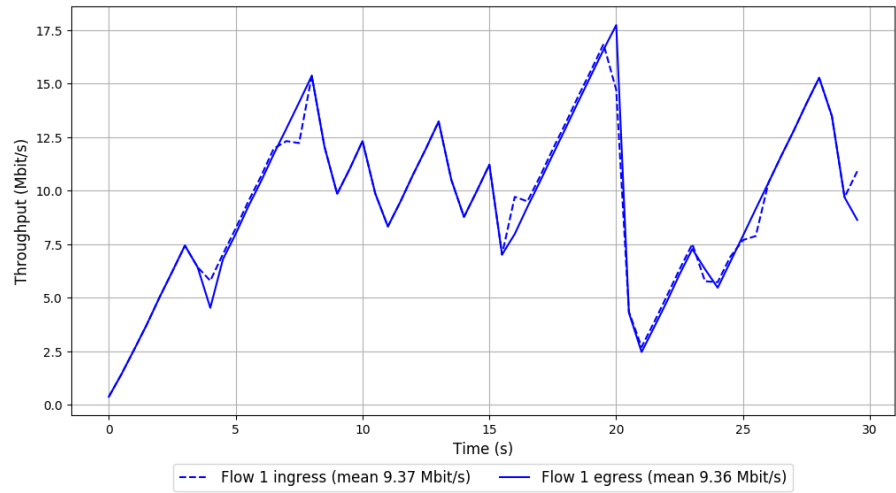


```
Run 2: Statistics of LEDBAT

Start at: 2018-02-13 03:30:01
End at: 2018-02-13 03:30:31

# Below is generated by plot.py at 2018-02-13 08:21:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.36 Mbit/s
95th percentile per-packet one-way delay: 50.221 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 9.36 Mbit/s
95th percentile per-packet one-way delay: 50.221 ms
Loss rate: 0.43%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-13 03:44:50

End at: 2018-02-13 03:45:20

Below is generated by plot.py at 2018-02-13 08:21:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.51 Mbit/s

95th percentile per-packet one-way delay: 51.524 ms

Loss rate: 0.40%

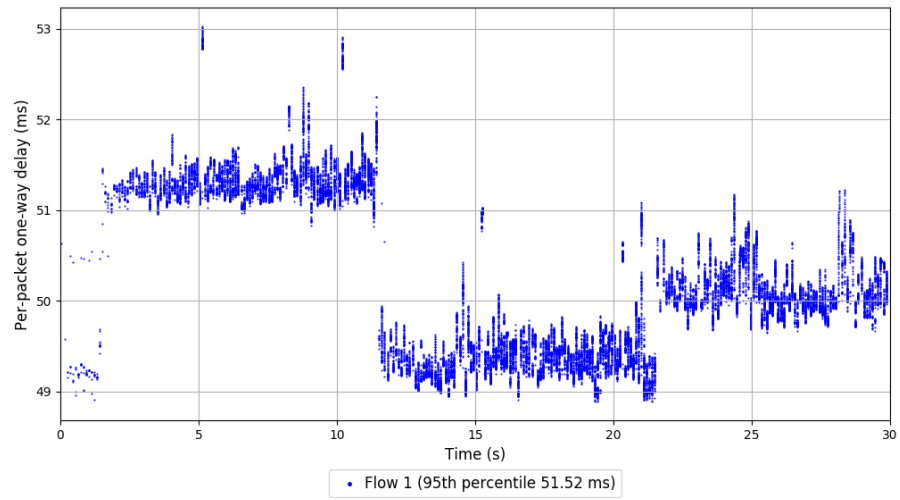
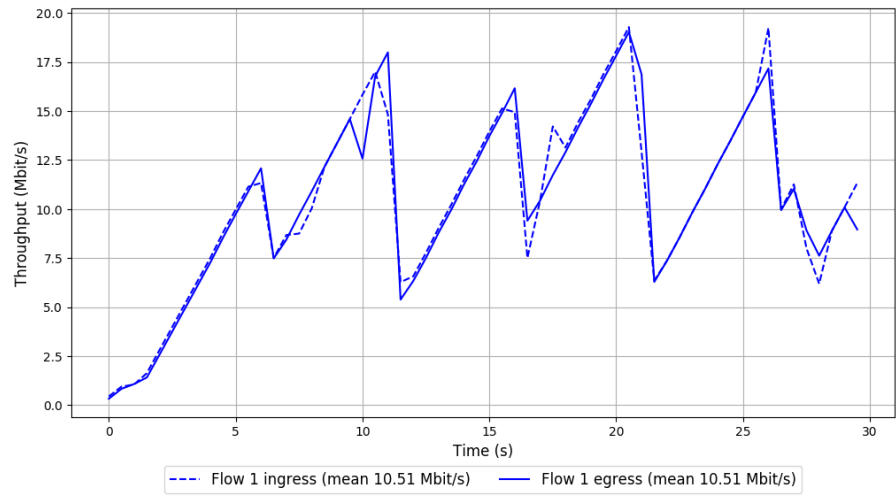
-- Flow 1:

Average throughput: 10.51 Mbit/s

95th percentile per-packet one-way delay: 51.524 ms

Loss rate: 0.40%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-13 03:59:37

End at: 2018-02-13 04:00:07

Below is generated by plot.py at 2018-02-13 08:21:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.35 Mbit/s

95th percentile per-packet one-way delay: 51.563 ms

Loss rate: 0.54%

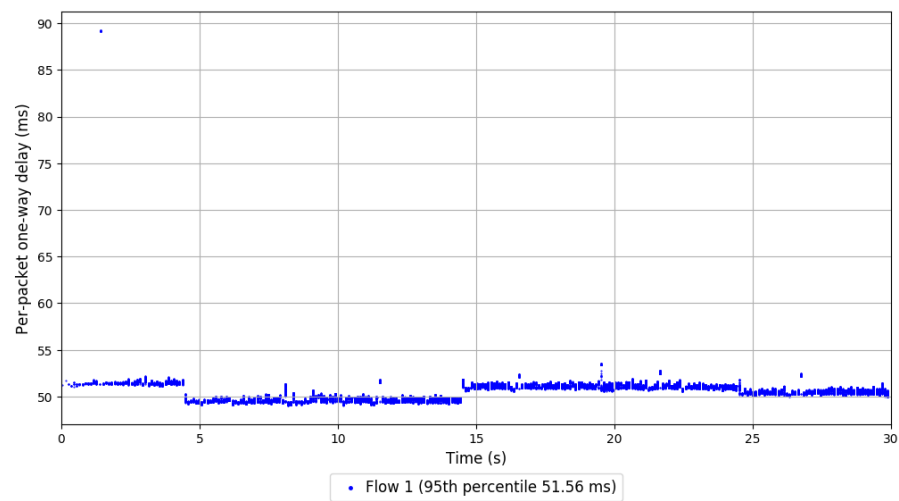
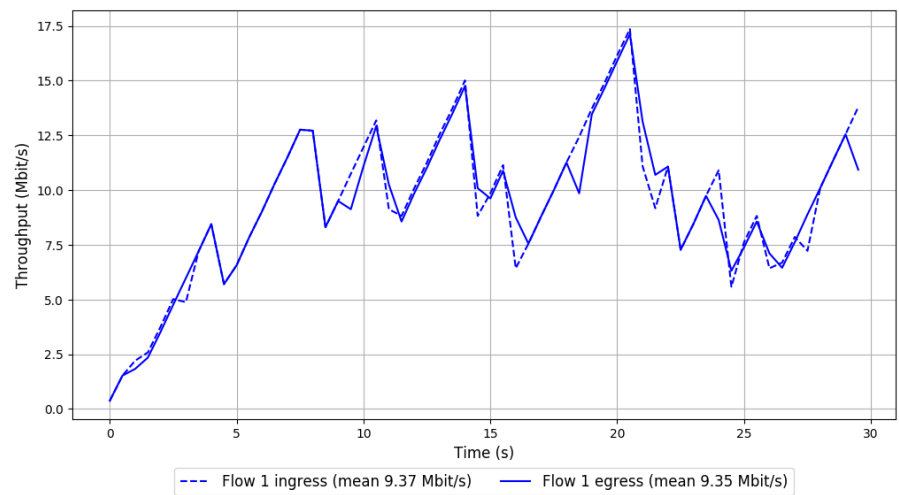
-- Flow 1:

Average throughput: 9.35 Mbit/s

95th percentile per-packet one-way delay: 51.563 ms

Loss rate: 0.54%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-13 04:14:20

End at: 2018-02-13 04:14:50

Below is generated by plot.py at 2018-02-13 08:21:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.13 Mbit/s

95th percentile per-packet one-way delay: 51.614 ms

Loss rate: 0.69%

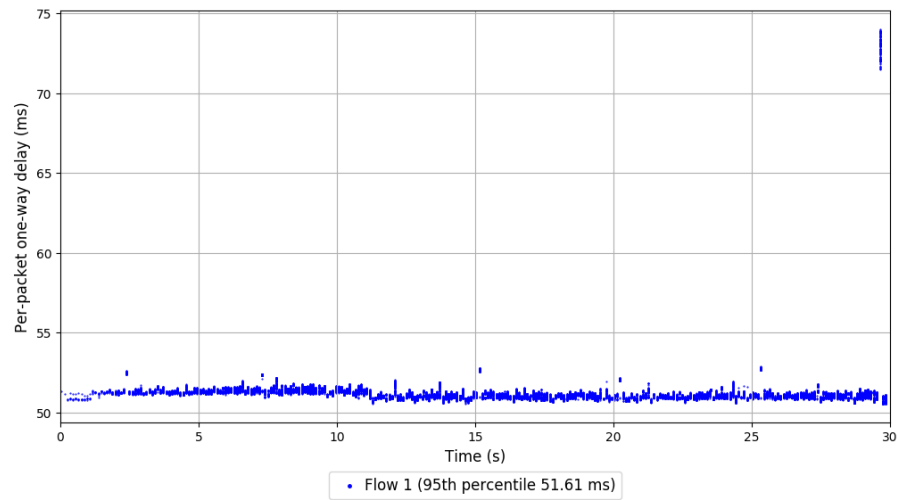
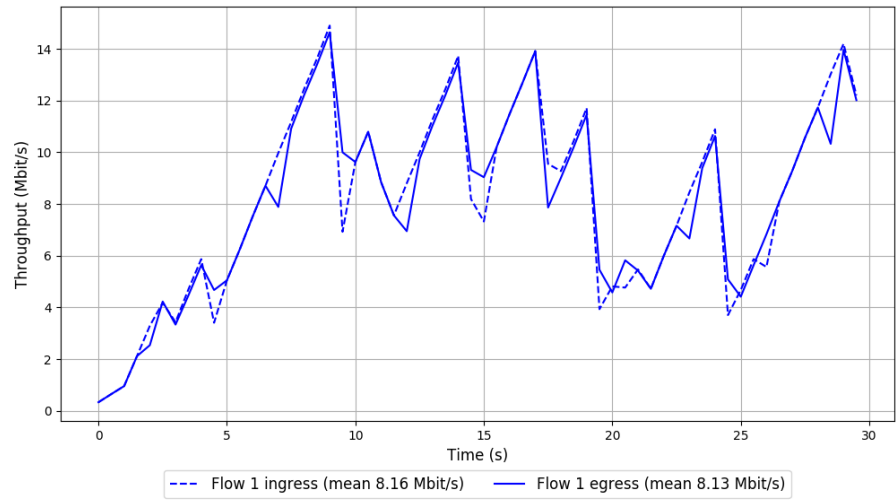
-- Flow 1:

Average throughput: 8.13 Mbit/s

95th percentile per-packet one-way delay: 51.614 ms

Loss rate: 0.69%

Run 5: Report of LEDBAT — Data Link

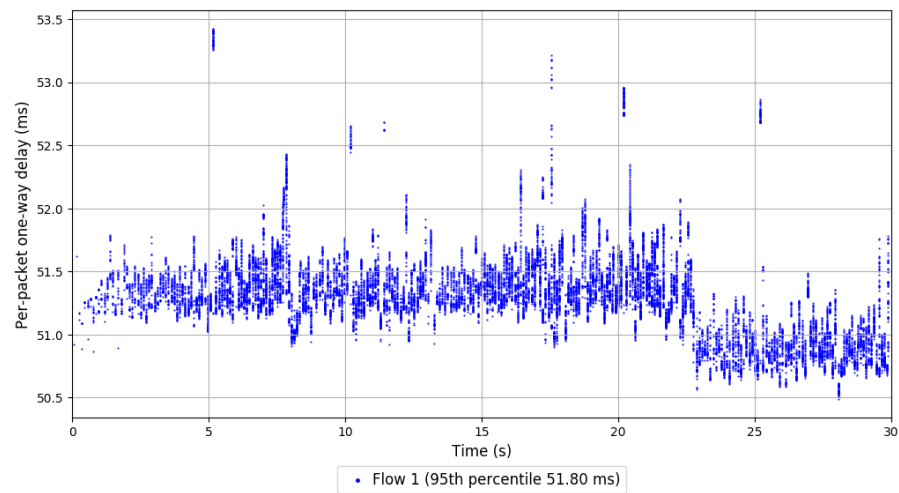
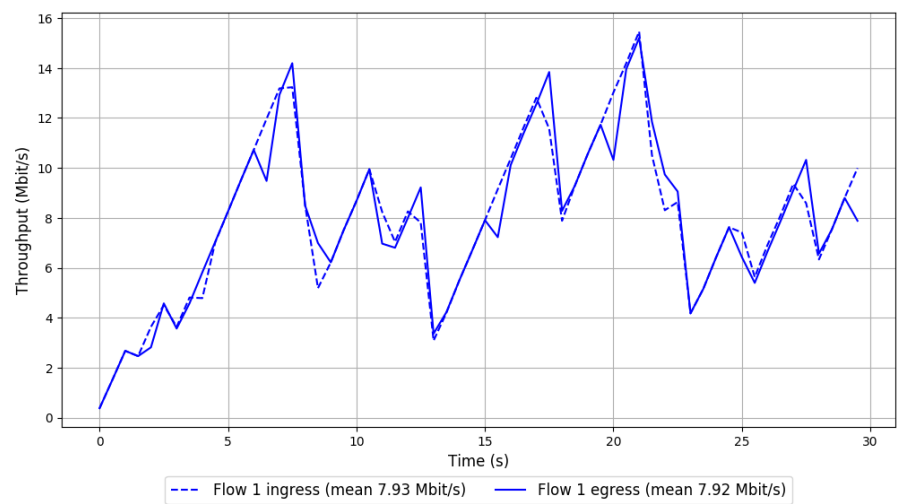


```
Run 6: Statistics of LEDBAT

Start at: 2018-02-13 04:29:09
End at: 2018-02-13 04:29:39

# Below is generated by plot.py at 2018-02-13 08:21:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.92 Mbit/s
95th percentile per-packet one-way delay: 51.802 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 7.92 Mbit/s
95th percentile per-packet one-way delay: 51.802 ms
Loss rate: 0.46%
```

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-13 04:44:13

End at: 2018-02-13 04:44:43

Below is generated by plot.py at 2018-02-13 08:21:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.35 Mbit/s

95th percentile per-packet one-way delay: 51.677 ms

Loss rate: 0.41%

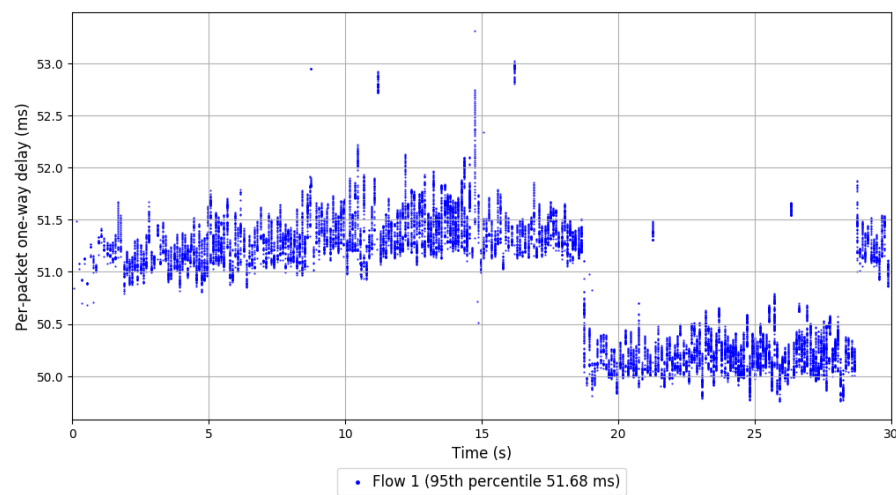
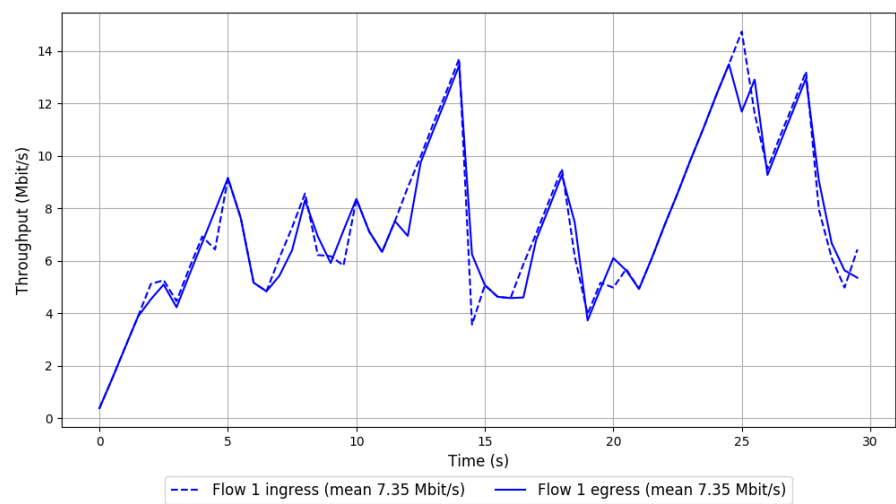
-- Flow 1:

Average throughput: 7.35 Mbit/s

95th percentile per-packet one-way delay: 51.677 ms

Loss rate: 0.41%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-13 04:58:54

End at: 2018-02-13 04:59:25

Below is generated by plot.py at 2018-02-13 08:21:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.60 Mbit/s

95th percentile per-packet one-way delay: 51.411 ms

Loss rate: 0.57%

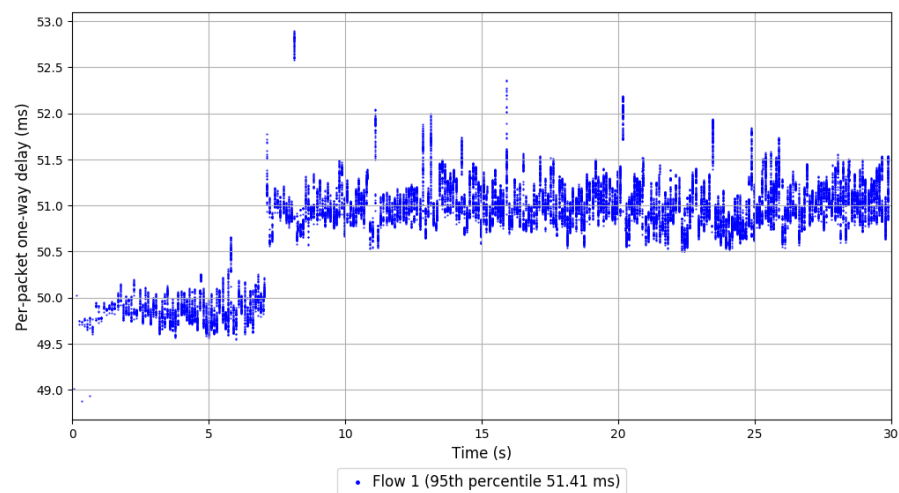
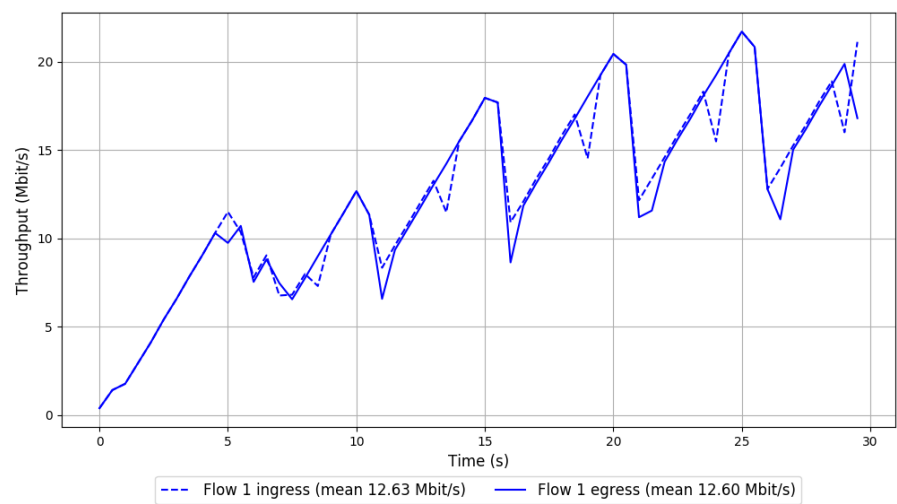
-- Flow 1:

Average throughput: 12.60 Mbit/s

95th percentile per-packet one-way delay: 51.411 ms

Loss rate: 0.57%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-13 05:13:44

End at: 2018-02-13 05:14:15

Below is generated by plot.py at 2018-02-13 08:21:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.00 Mbit/s

95th percentile per-packet one-way delay: 51.022 ms

Loss rate: 0.38%

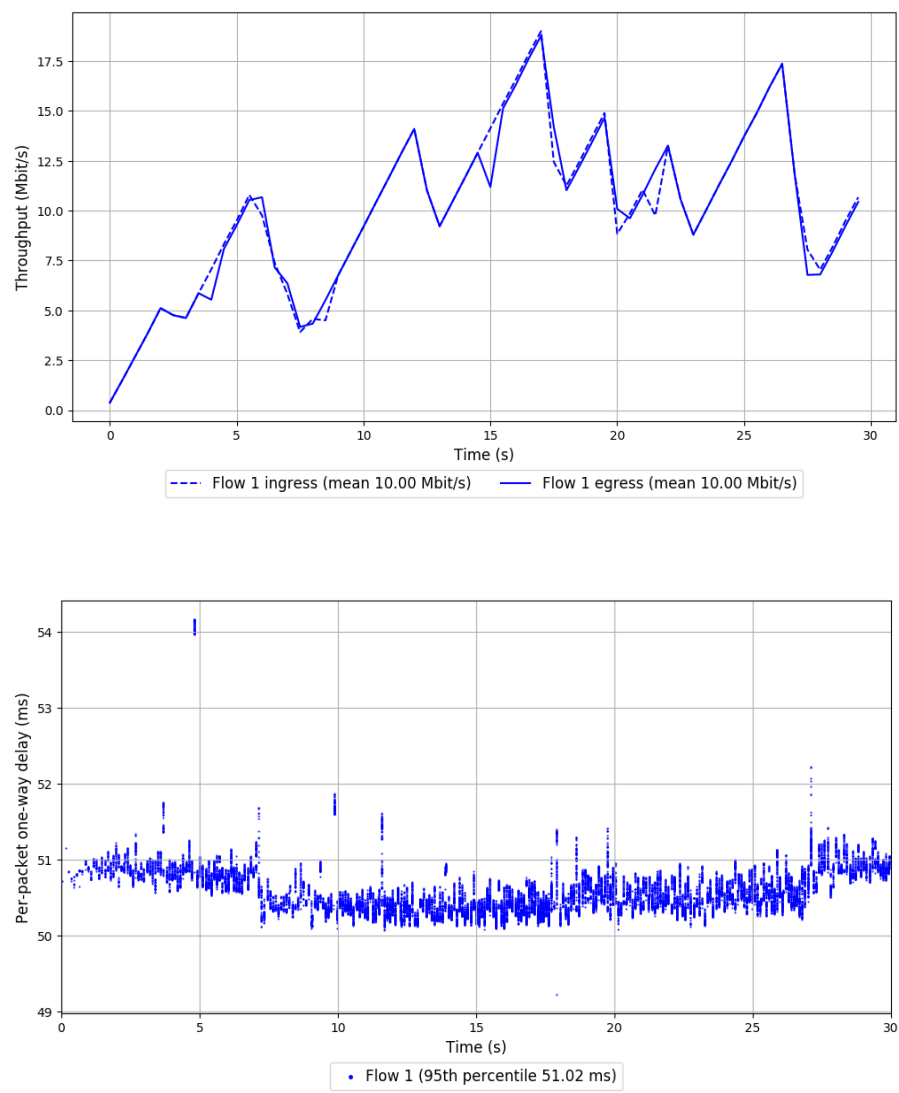
-- Flow 1:

Average throughput: 10.00 Mbit/s

95th percentile per-packet one-way delay: 51.022 ms

Loss rate: 0.38%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-13 05:28:29

End at: 2018-02-13 05:28:59

Below is generated by plot.py at 2018-02-13 08:21:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.23 Mbit/s

95th percentile per-packet one-way delay: 50.804 ms

Loss rate: 0.38%

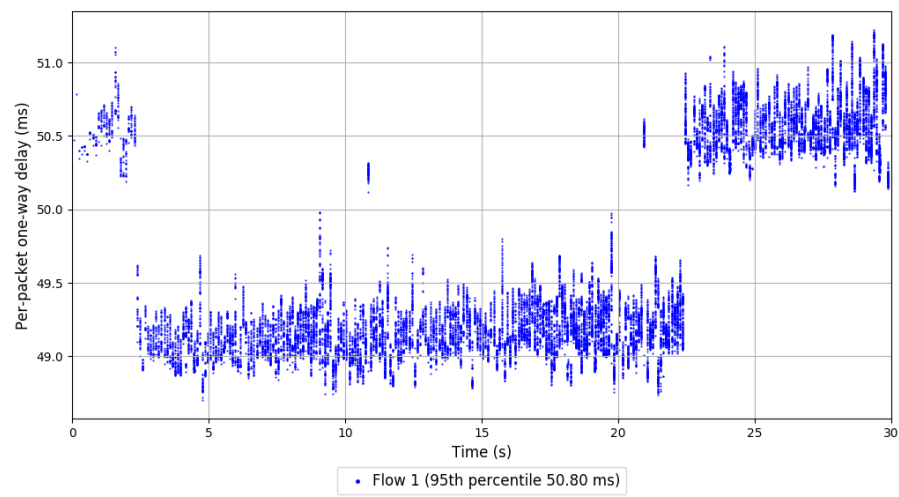
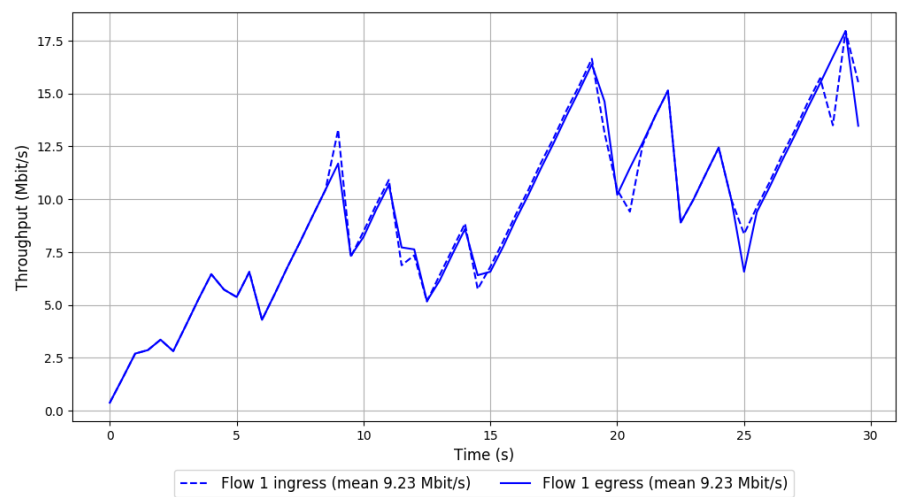
-- Flow 1:

Average throughput: 9.23 Mbit/s

95th percentile per-packet one-way delay: 50.804 ms

Loss rate: 0.38%

Run 10: Report of LEDBAT — Data Link

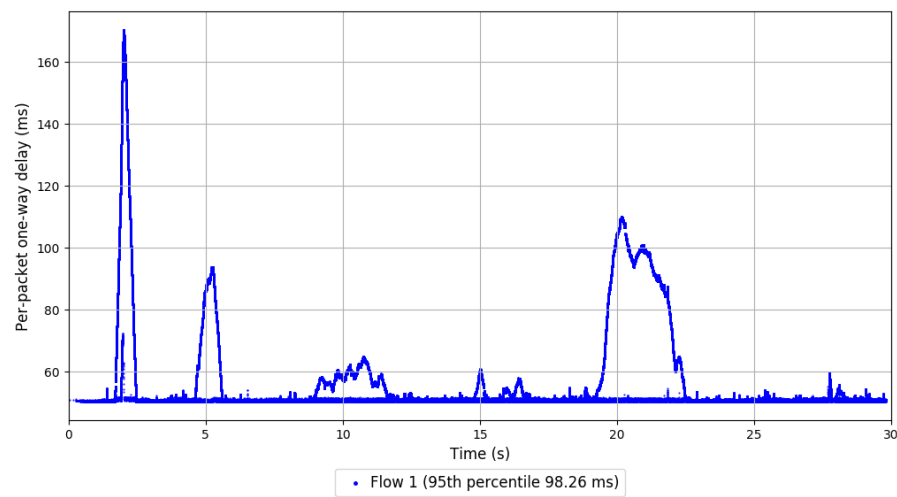
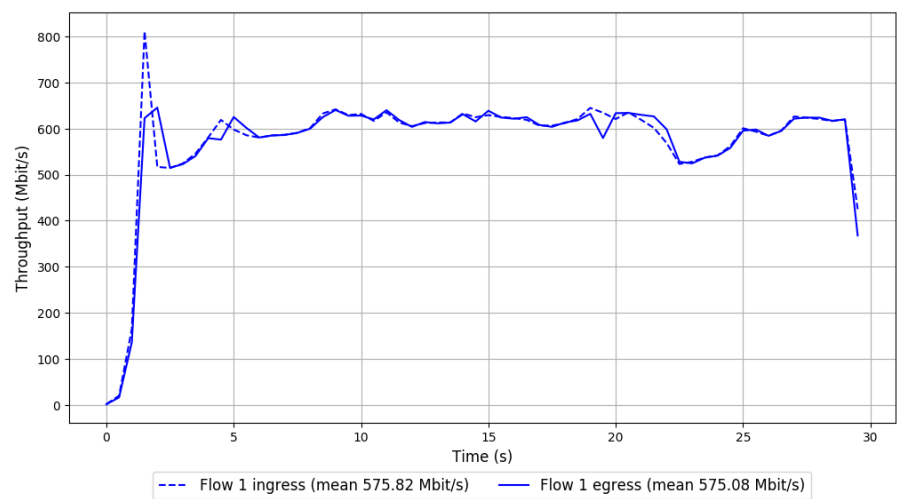


```
Run 1: Statistics of PCC

Start at: 2018-02-13 03:09:38
End at: 2018-02-13 03:10:08

# Below is generated by plot.py at 2018-02-13 08:29:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 575.08 Mbit/s
95th percentile per-packet one-way delay: 98.263 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 575.08 Mbit/s
95th percentile per-packet one-way delay: 98.263 ms
Loss rate: 0.46%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-13 03:24:36

End at: 2018-02-13 03:25:06

Below is generated by plot.py at 2018-02-13 08:29:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 580.68 Mbit/s

95th percentile per-packet one-way delay: 99.533 ms

Loss rate: 0.59%

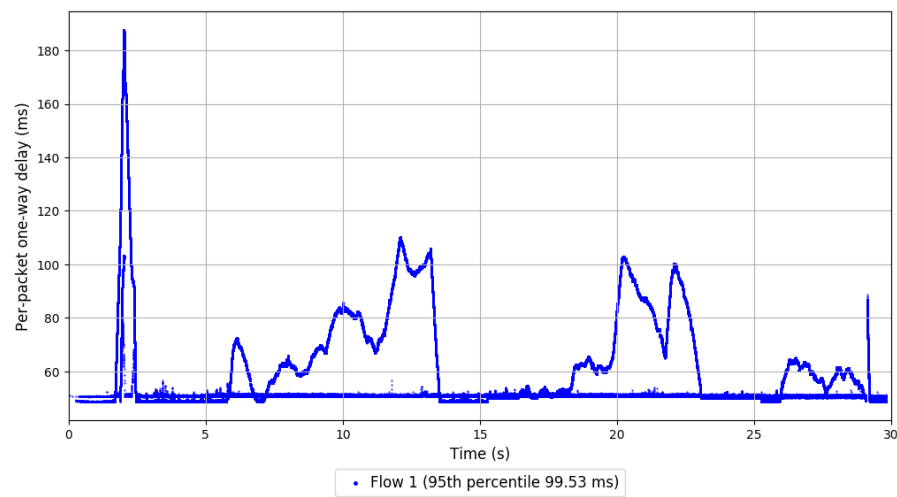
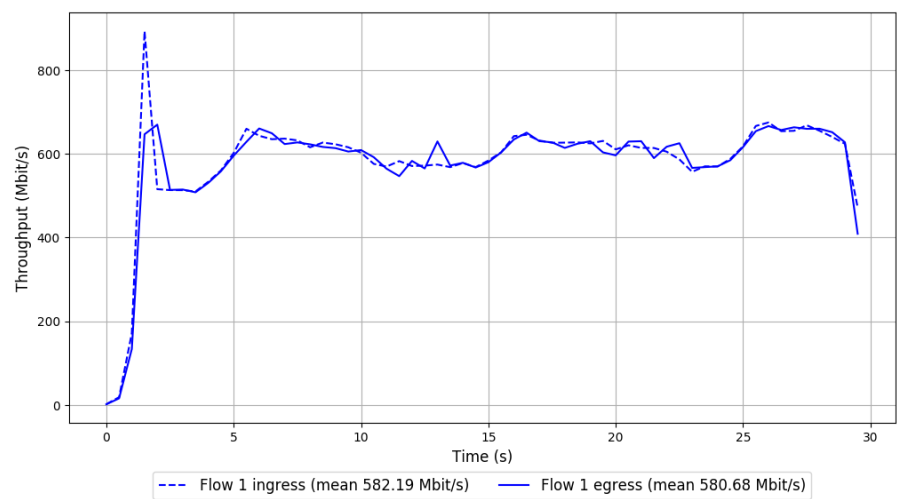
-- Flow 1:

Average throughput: 580.68 Mbit/s

95th percentile per-packet one-way delay: 99.533 ms

Loss rate: 0.59%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-13 03:39:21

End at: 2018-02-13 03:39:51

Below is generated by plot.py at 2018-02-13 08:29:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 604.30 Mbit/s

95th percentile per-packet one-way delay: 77.916 ms

Loss rate: 0.57%

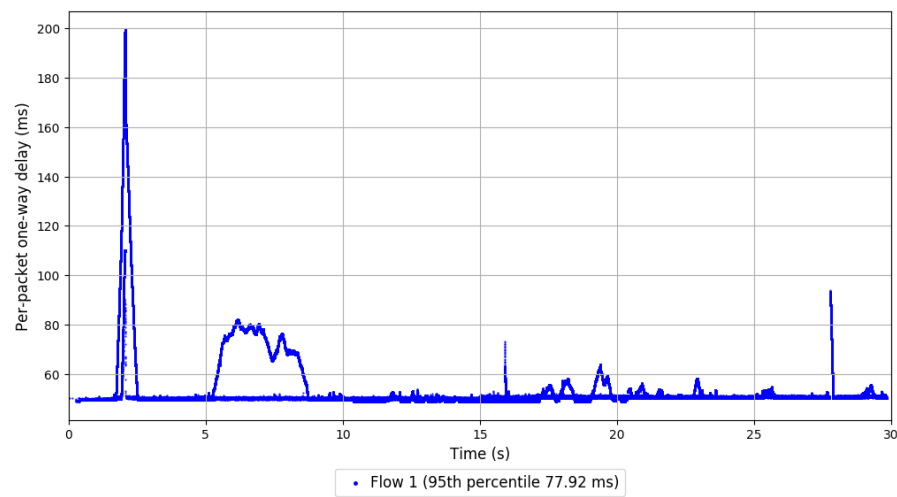
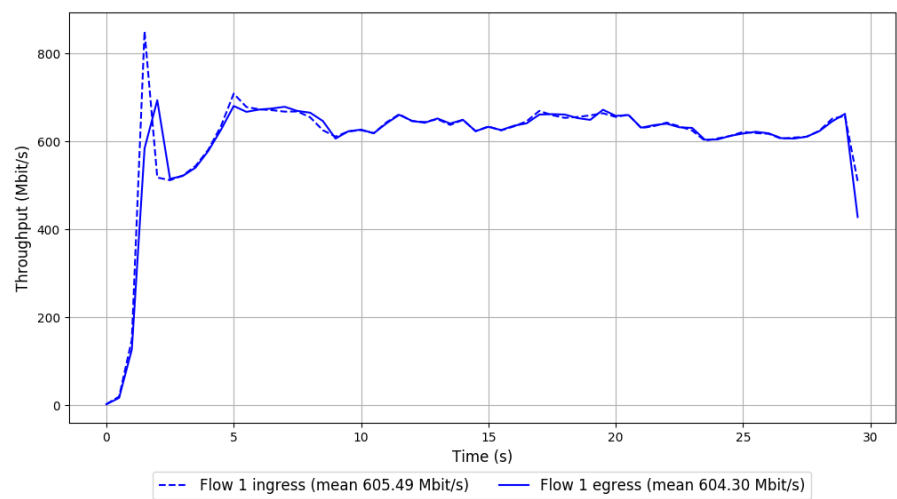
-- Flow 1:

Average throughput: 604.30 Mbit/s

95th percentile per-packet one-way delay: 77.916 ms

Loss rate: 0.57%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-13 03:54:07

End at: 2018-02-13 03:54:37

Below is generated by plot.py at 2018-02-13 08:29:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 606.45 Mbit/s

95th percentile per-packet one-way delay: 76.774 ms

Loss rate: 0.54%

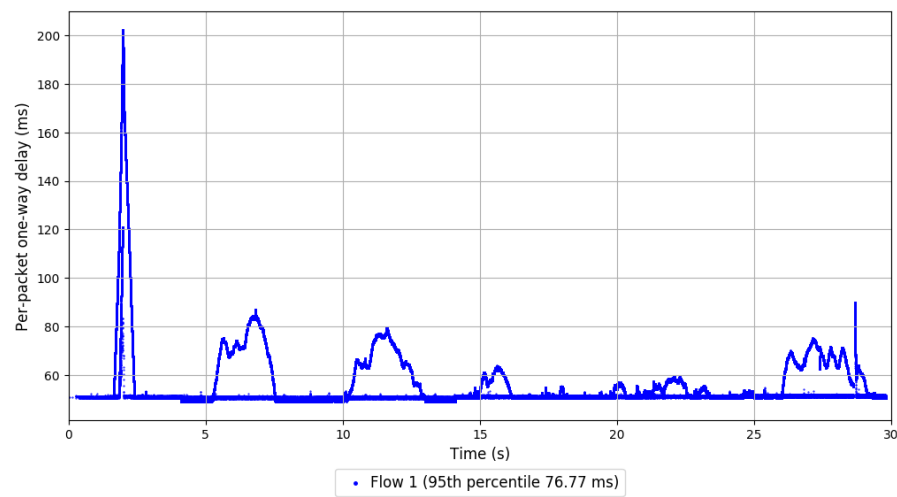
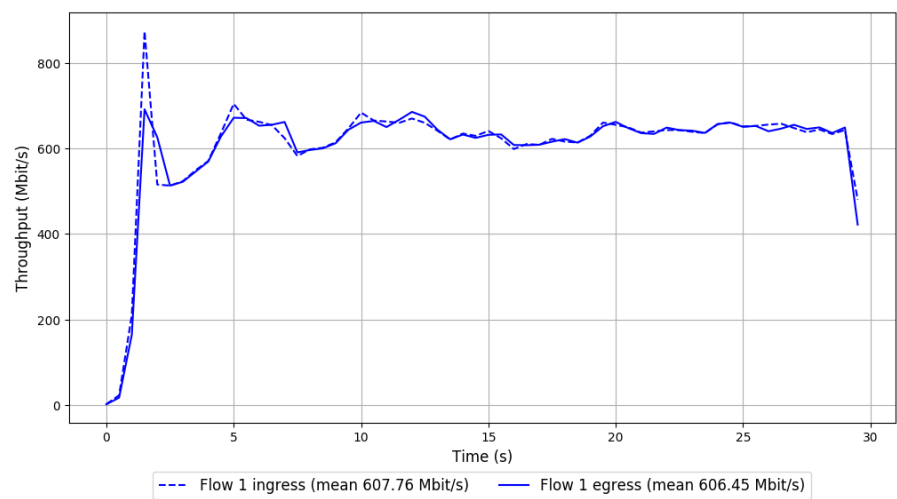
-- Flow 1:

Average throughput: 606.45 Mbit/s

95th percentile per-packet one-way delay: 76.774 ms

Loss rate: 0.54%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-13 04:08:51

End at: 2018-02-13 04:09:21

Below is generated by plot.py at 2018-02-13 08:29:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 587.34 Mbit/s

95th percentile per-packet one-way delay: 160.354 ms

Loss rate: 0.64%

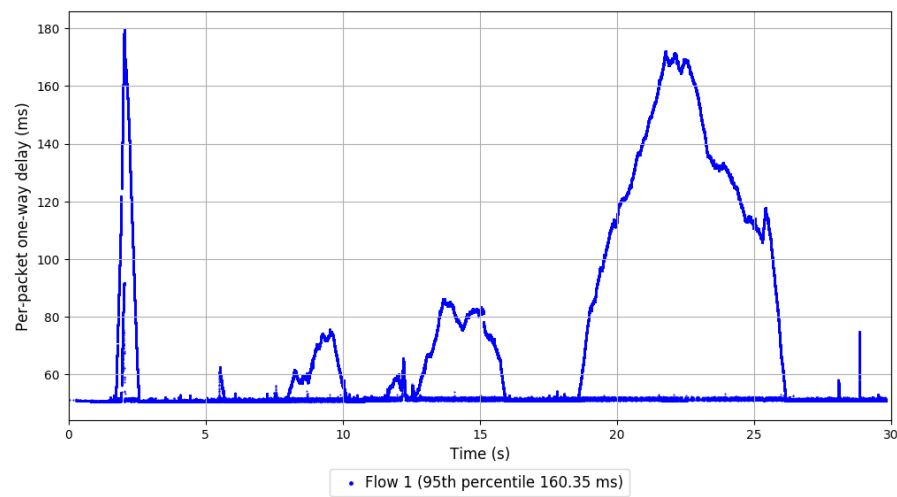
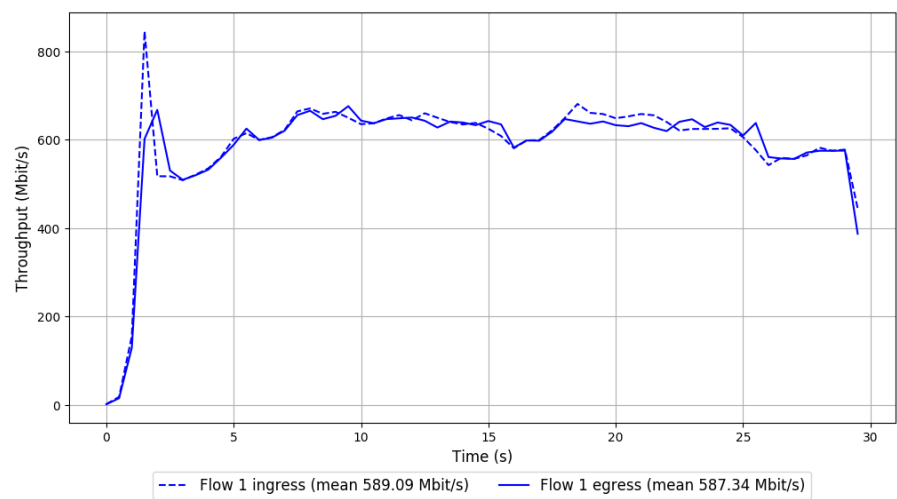
-- Flow 1:

Average throughput: 587.34 Mbit/s

95th percentile per-packet one-way delay: 160.354 ms

Loss rate: 0.64%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-13 04:23:39

End at: 2018-02-13 04:24:09

Below is generated by plot.py at 2018-02-13 08:30:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 604.00 Mbit/s

95th percentile per-packet one-way delay: 125.621 ms

Loss rate: 0.46%

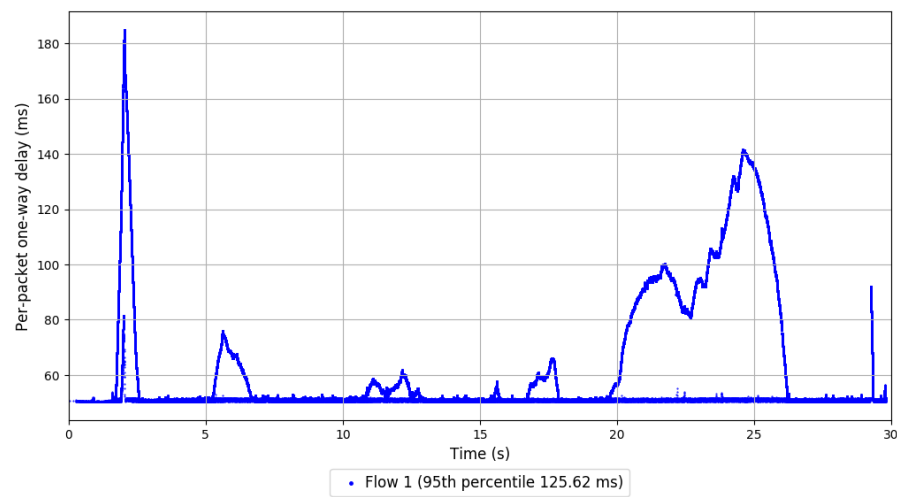
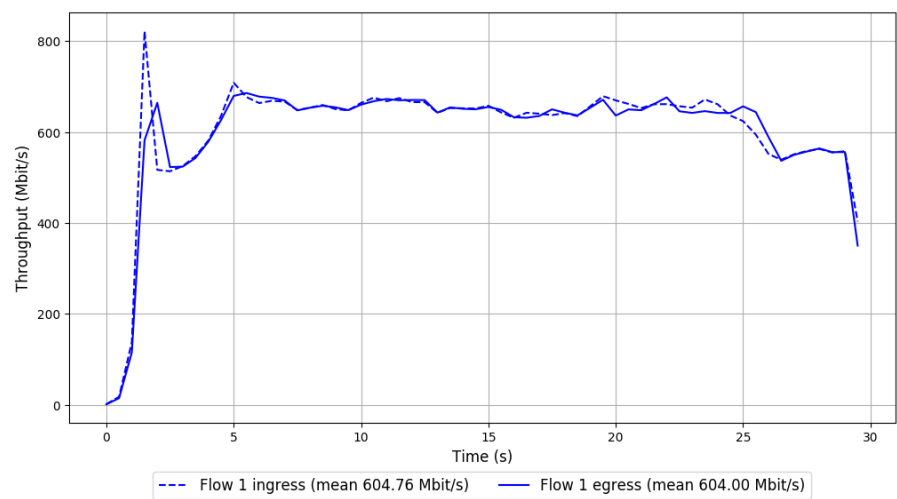
-- Flow 1:

Average throughput: 604.00 Mbit/s

95th percentile per-packet one-way delay: 125.621 ms

Loss rate: 0.46%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-13 04:38:44

End at: 2018-02-13 04:39:14

Below is generated by plot.py at 2018-02-13 08:30:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 586.05 Mbit/s

95th percentile per-packet one-way delay: 156.663 ms

Loss rate: 0.63%

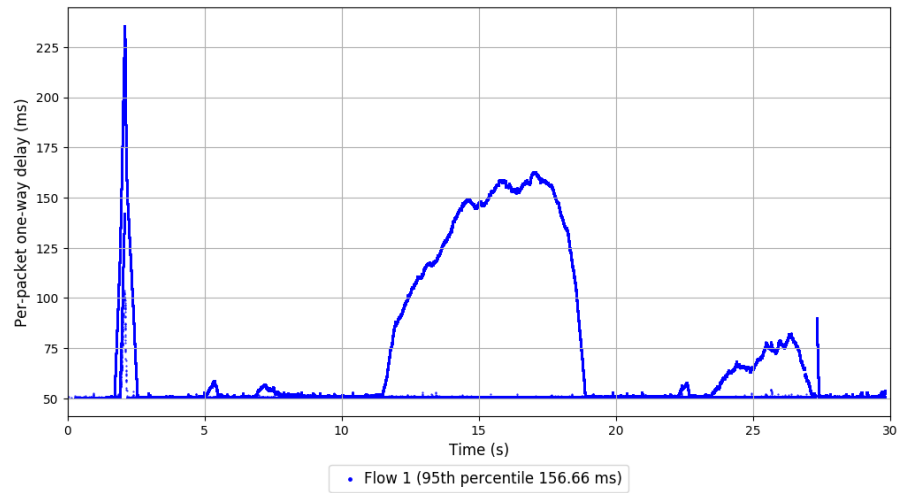
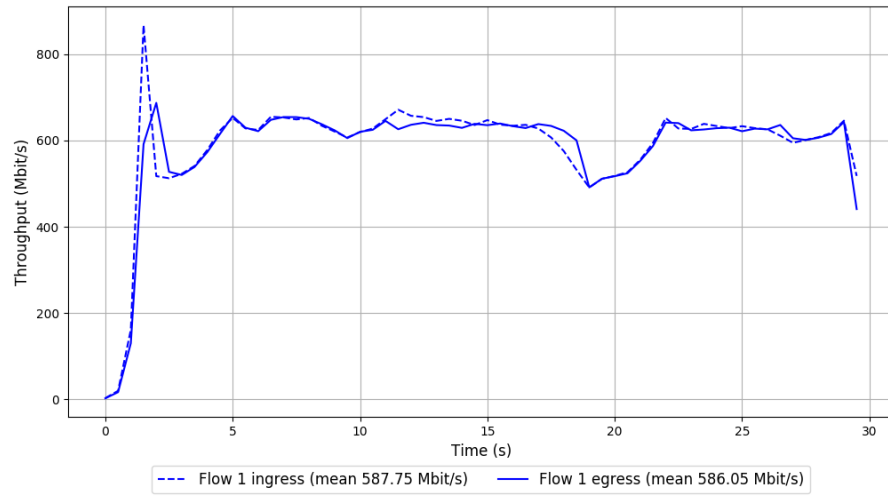
-- Flow 1:

Average throughput: 586.05 Mbit/s

95th percentile per-packet one-way delay: 156.663 ms

Loss rate: 0.63%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-13 04:53:31

End at: 2018-02-13 04:54:01

Below is generated by plot.py at 2018-02-13 08:30:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 592.96 Mbit/s

95th percentile per-packet one-way delay: 87.941 ms

Loss rate: 0.74%

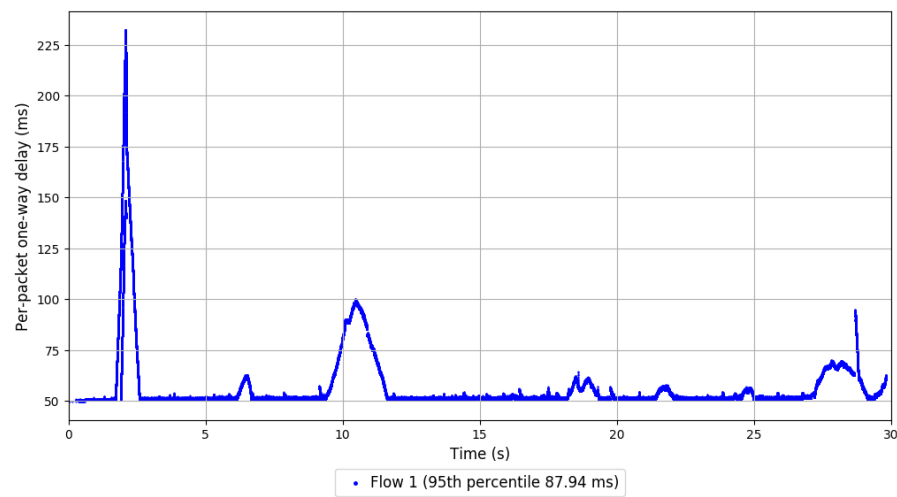
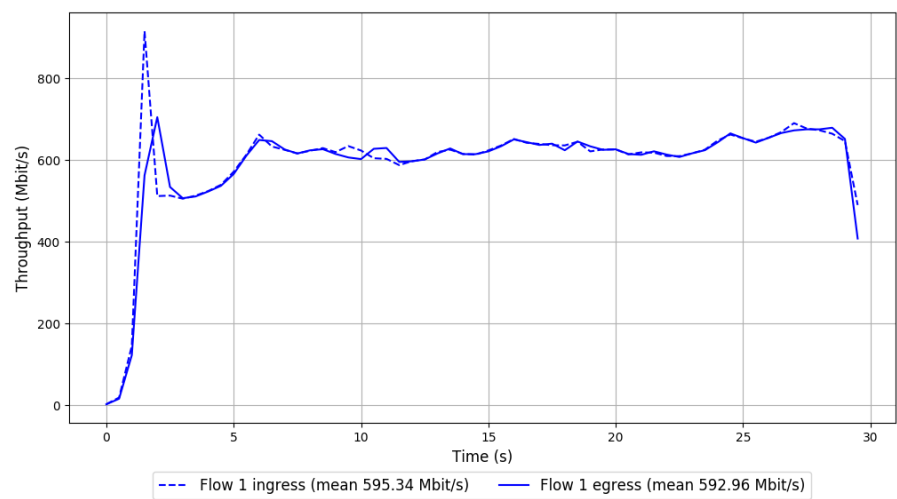
-- Flow 1:

Average throughput: 592.96 Mbit/s

95th percentile per-packet one-way delay: 87.941 ms

Loss rate: 0.74%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-13 05:08:14

End at: 2018-02-13 05:08:44

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 597.68 Mbit/s

95th percentile per-packet one-way delay: 162.326 ms

Loss rate: 0.96%

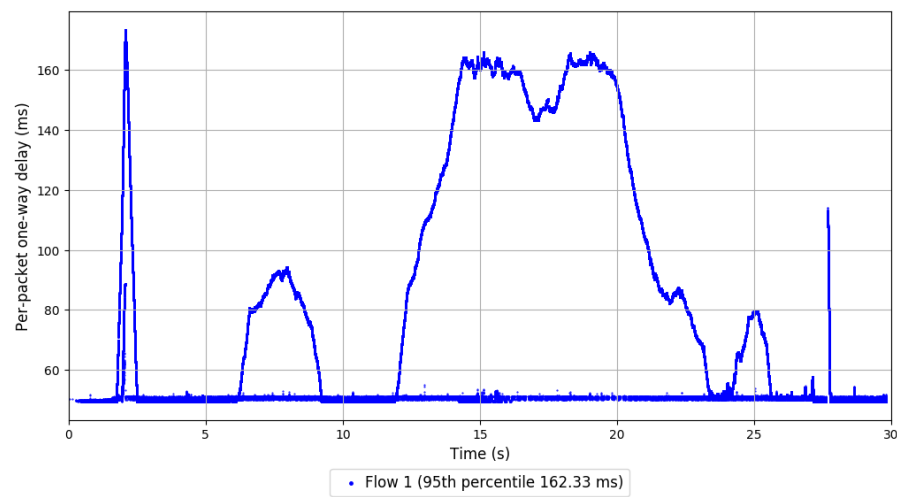
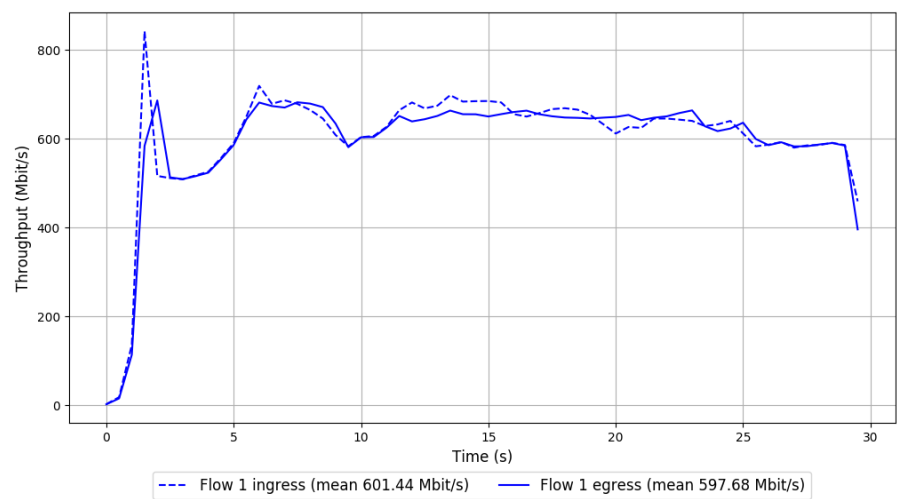
-- Flow 1:

Average throughput: 597.68 Mbit/s

95th percentile per-packet one-way delay: 162.326 ms

Loss rate: 0.96%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-13 05:23:05

End at: 2018-02-13 05:23:35

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 570.95 Mbit/s

95th percentile per-packet one-way delay: 82.608 ms

Loss rate: 0.58%

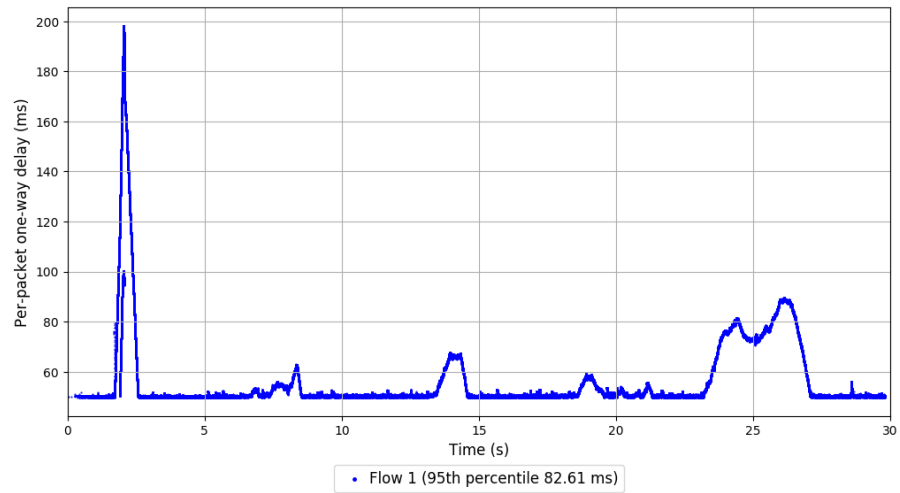
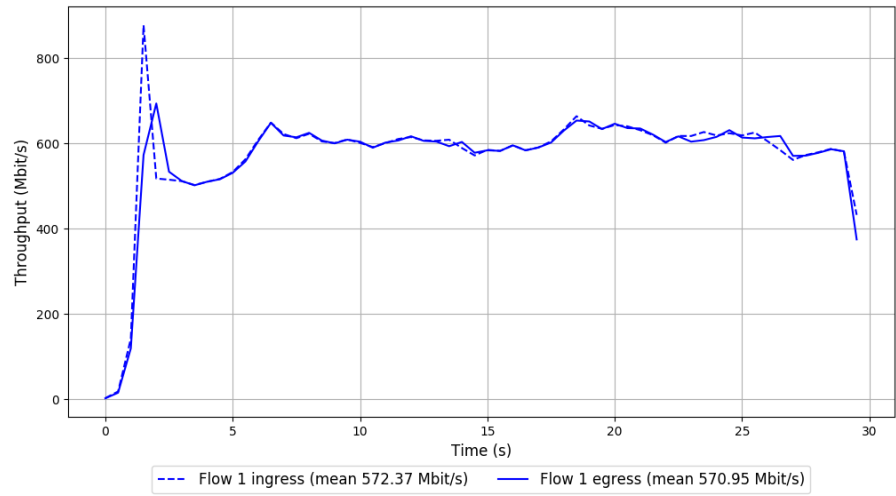
-- Flow 1:

Average throughput: 570.95 Mbit/s

95th percentile per-packet one-way delay: 82.608 ms

Loss rate: 0.58%

Run 10: Report of PCC — Data Link

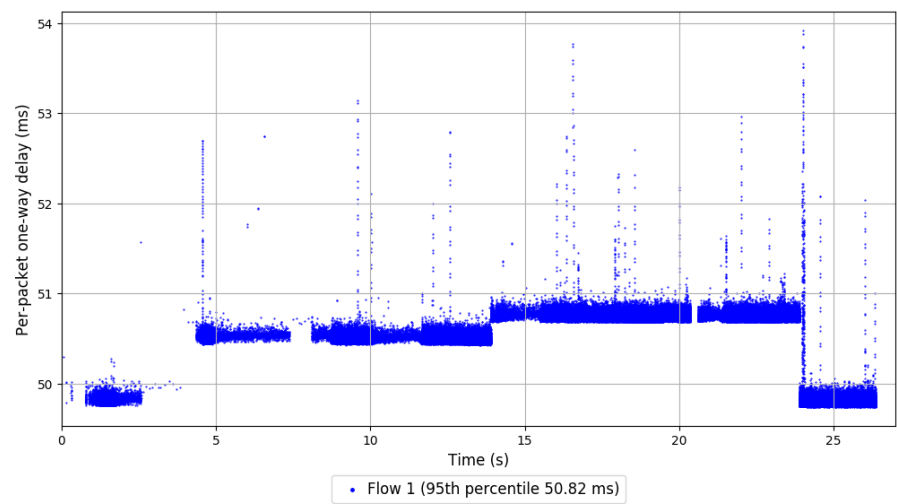
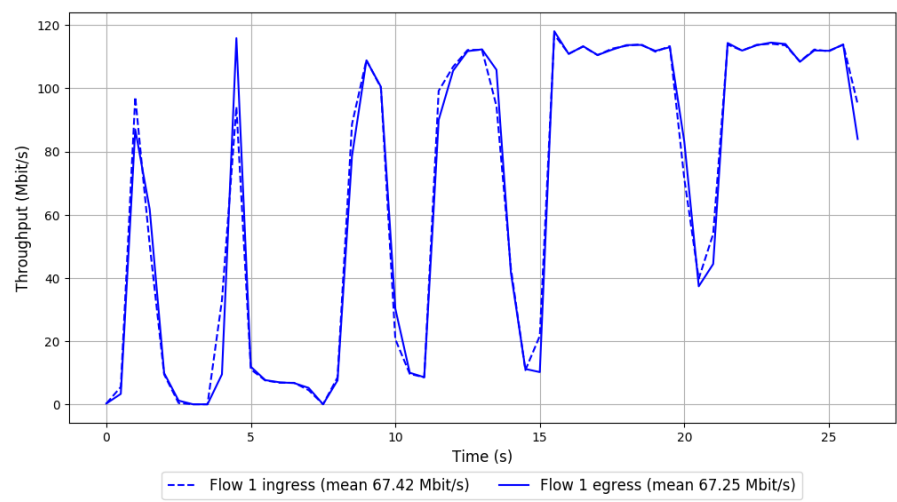


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-13 03:08:59
End at: 2018-02-13 03:09:29

# Below is generated by plot.py at 2018-02-13 08:38:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.25 Mbit/s
95th percentile per-packet one-way delay: 50.819 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 67.25 Mbit/s
95th percentile per-packet one-way delay: 50.819 ms
Loss rate: 0.62%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-13 03:23:56

End at: 2018-02-13 03:24:26

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.34 Mbit/s

95th percentile per-packet one-way delay: 50.296 ms

Loss rate: 0.05%

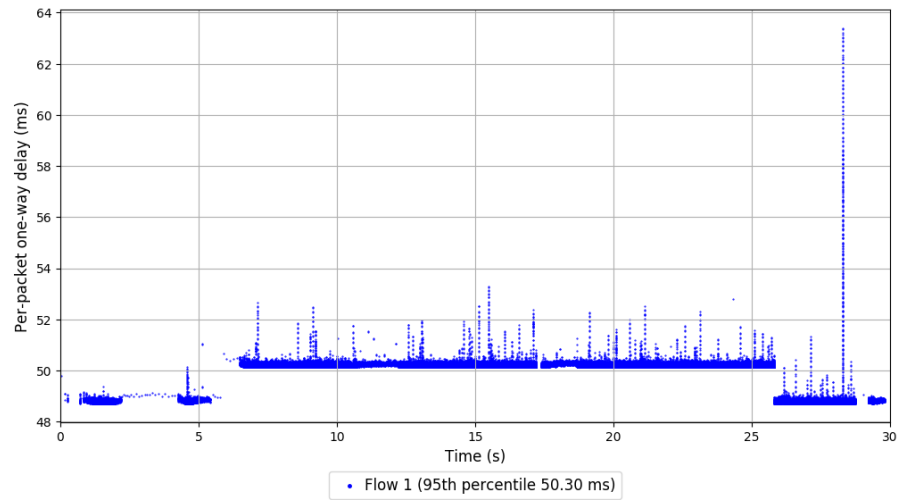
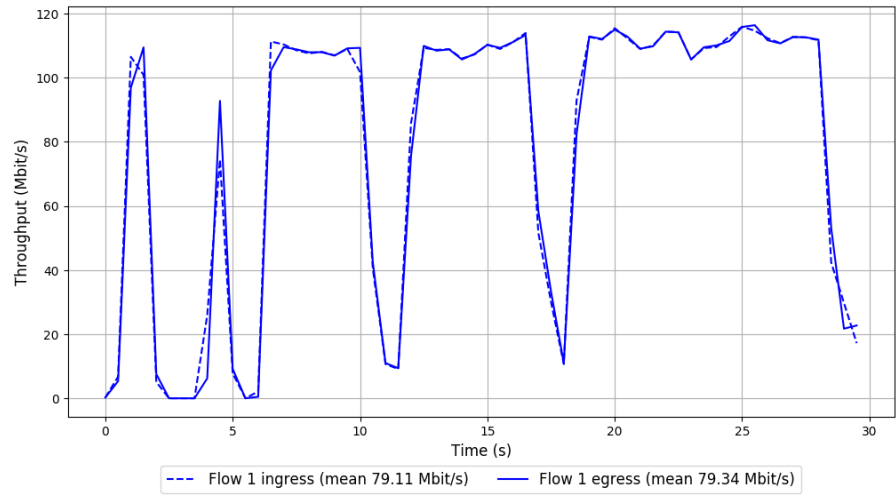
-- Flow 1:

Average throughput: 79.34 Mbit/s

95th percentile per-packet one-way delay: 50.296 ms

Loss rate: 0.05%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-13 03:38:40

End at: 2018-02-13 03:39:10

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.81 Mbit/s

95th percentile per-packet one-way delay: 50.576 ms

Loss rate: 0.19%

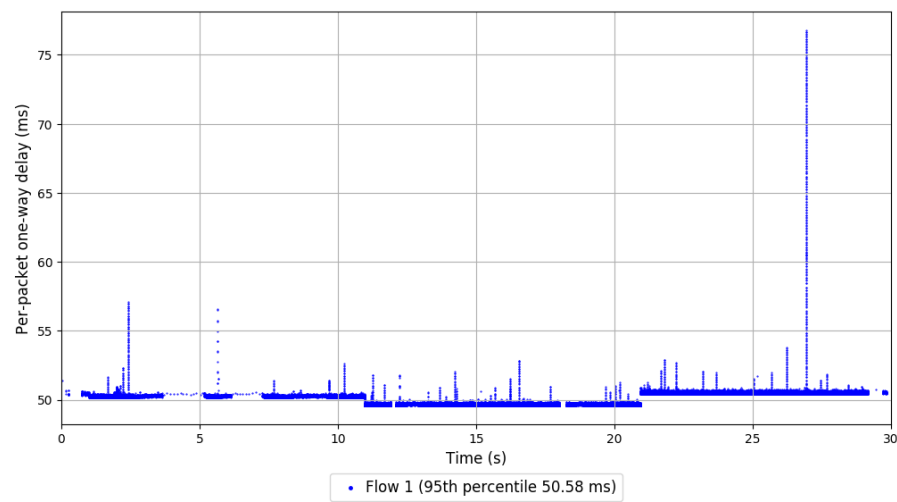
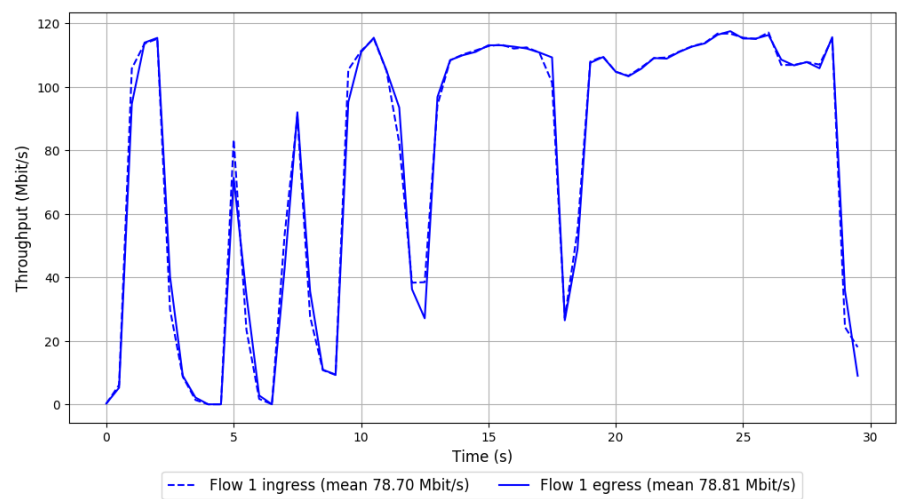
-- Flow 1:

Average throughput: 78.81 Mbit/s

95th percentile per-packet one-way delay: 50.576 ms

Loss rate: 0.19%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-13 03:53:27

End at: 2018-02-13 03:53:57

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.33 Mbit/s

95th percentile per-packet one-way delay: 50.871 ms

Loss rate: 0.28%

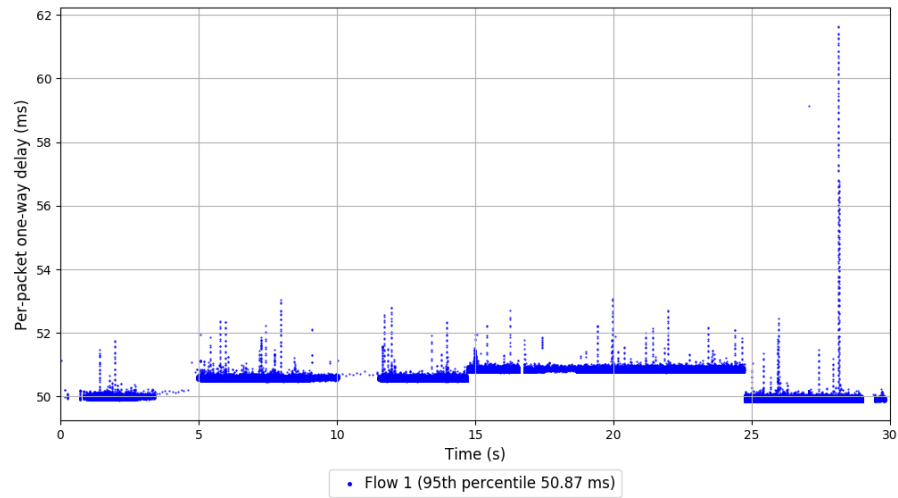
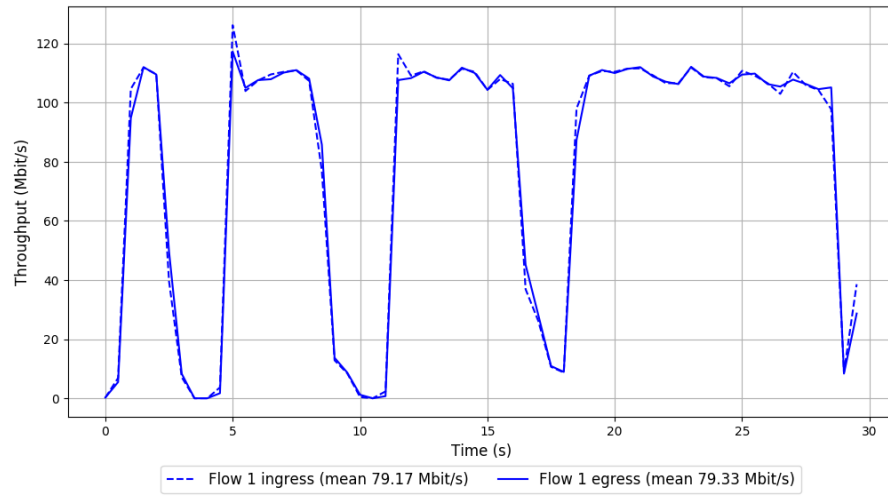
-- Flow 1:

Average throughput: 79.33 Mbit/s

95th percentile per-packet one-way delay: 50.871 ms

Loss rate: 0.28%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-13 04:08:10

End at: 2018-02-13 04:08:40

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.39 Mbit/s

95th percentile per-packet one-way delay: 51.038 ms

Loss rate: 0.52%

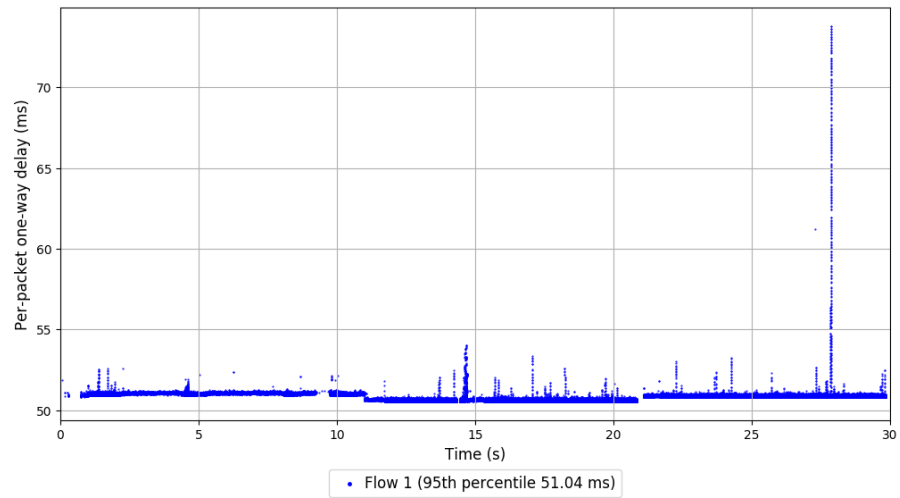
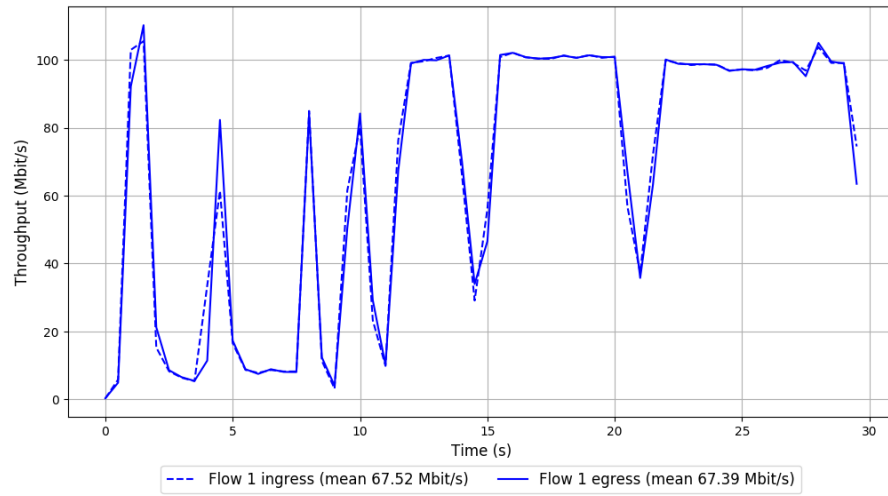
-- Flow 1:

Average throughput: 67.39 Mbit/s

95th percentile per-packet one-way delay: 51.038 ms

Loss rate: 0.52%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-13 04:22:58

End at: 2018-02-13 04:23:28

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.88 Mbit/s

95th percentile per-packet one-way delay: 50.562 ms

Loss rate: 0.49%

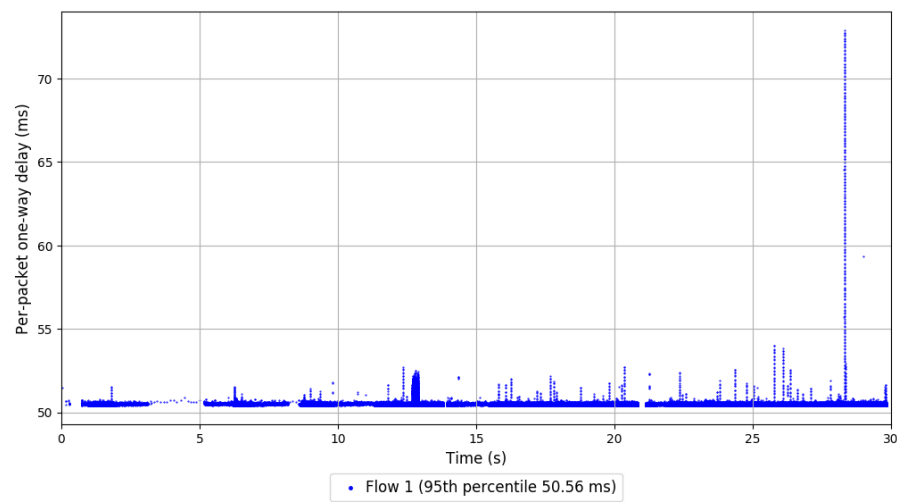
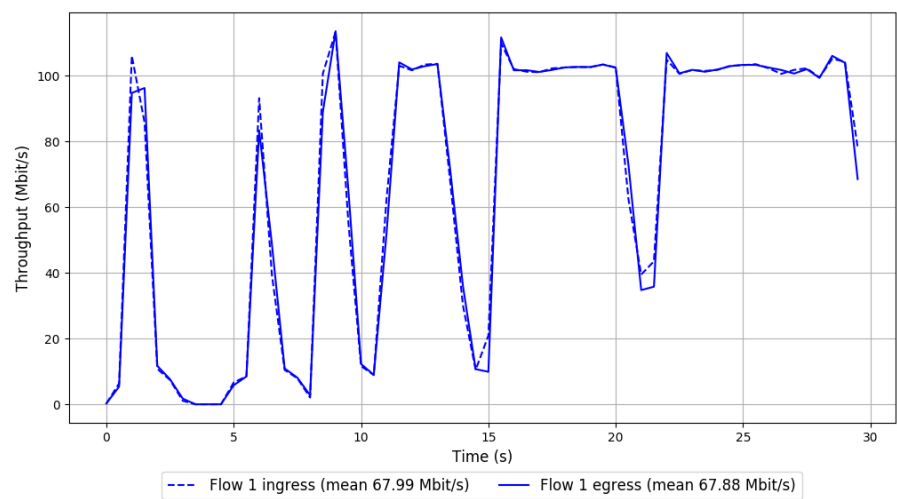
-- Flow 1:

Average throughput: 67.88 Mbit/s

95th percentile per-packet one-way delay: 50.562 ms

Loss rate: 0.49%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-13 04:38:04

End at: 2018-02-13 04:38:34

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.47 Mbit/s

95th percentile per-packet one-way delay: 50.535 ms

Loss rate: 0.57%

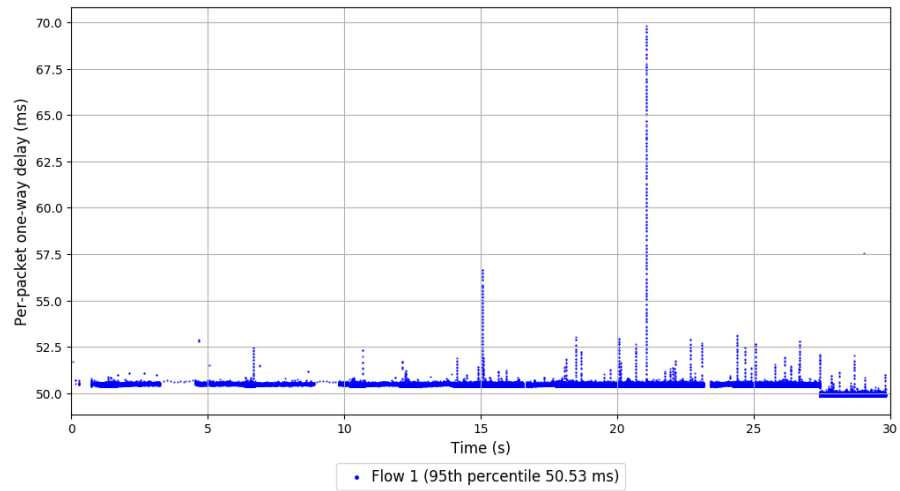
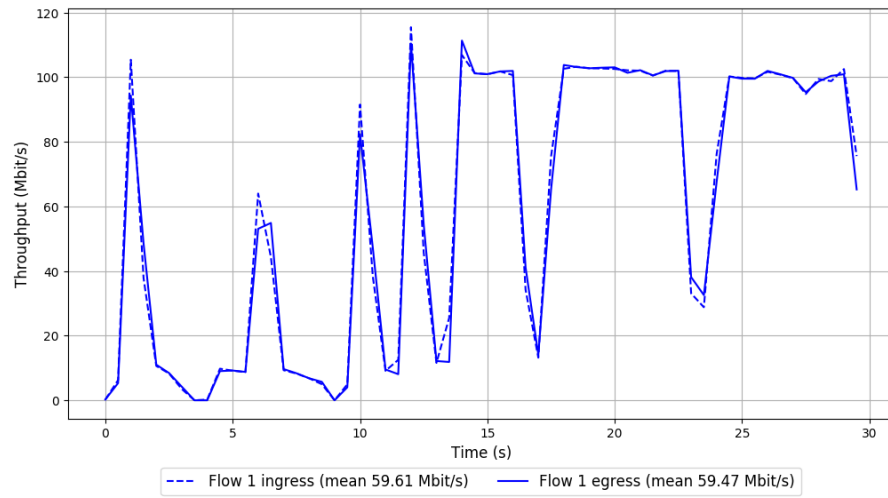
-- Flow 1:

Average throughput: 59.47 Mbit/s

95th percentile per-packet one-way delay: 50.535 ms

Loss rate: 0.57%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-13 04:52:50

End at: 2018-02-13 04:53:20

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.31 Mbit/s

95th percentile per-packet one-way delay: 50.646 ms

Loss rate: 0.03%

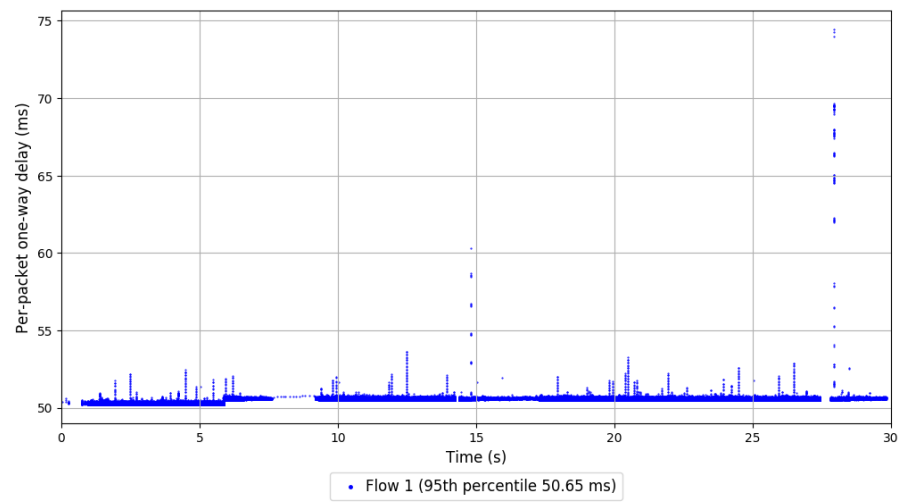
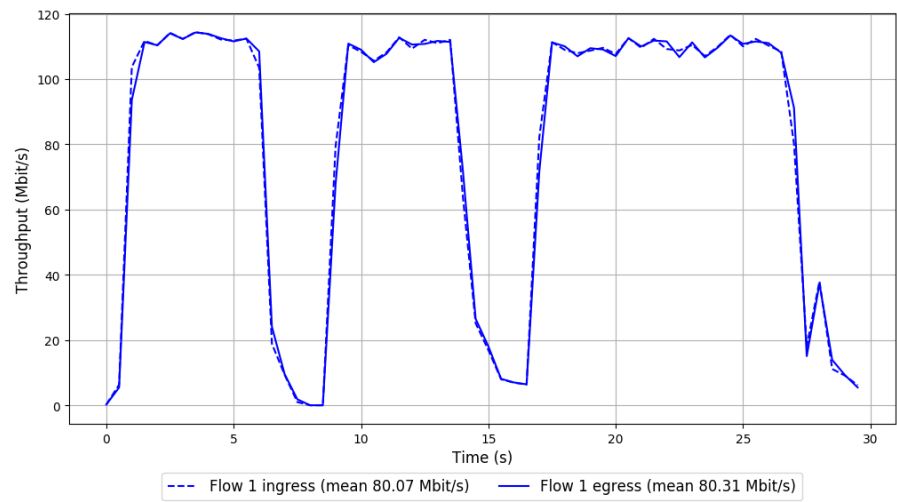
-- Flow 1:

Average throughput: 80.31 Mbit/s

95th percentile per-packet one-way delay: 50.646 ms

Loss rate: 0.03%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-13 05:07:35

End at: 2018-02-13 05:08:05

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.16 Mbit/s

95th percentile per-packet one-way delay: 49.556 ms

Loss rate: 0.60%

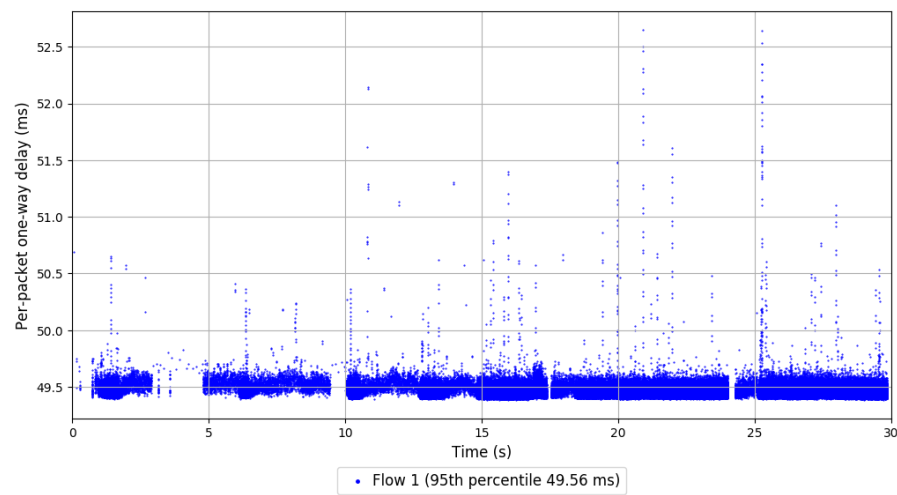
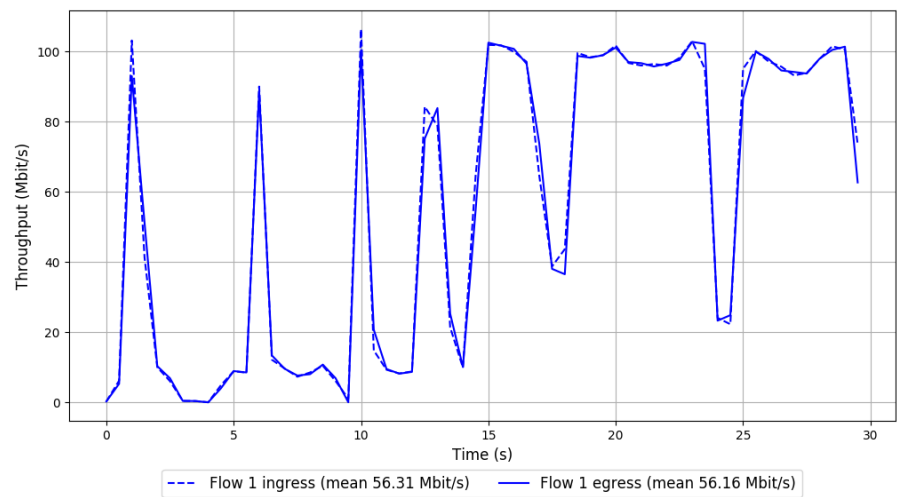
-- Flow 1:

Average throughput: 56.16 Mbit/s

95th percentile per-packet one-way delay: 49.556 ms

Loss rate: 0.60%

Run 9: Report of QUIC Cubic — Data Link

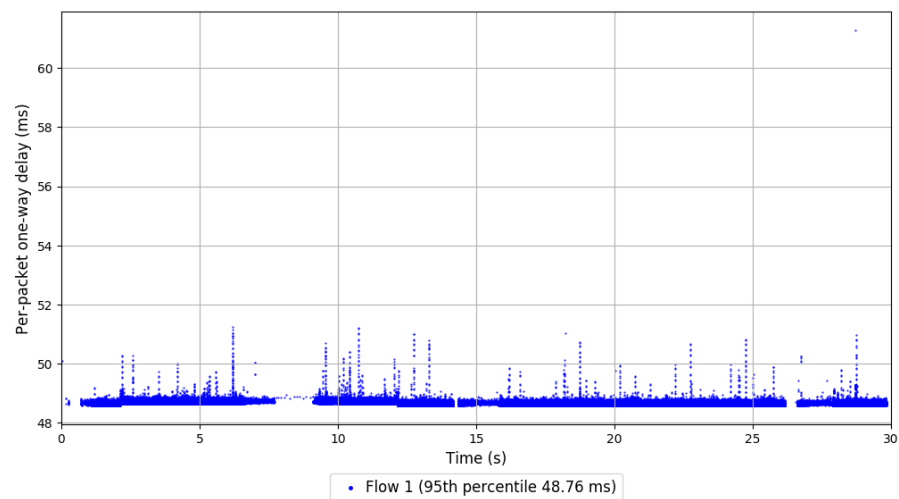
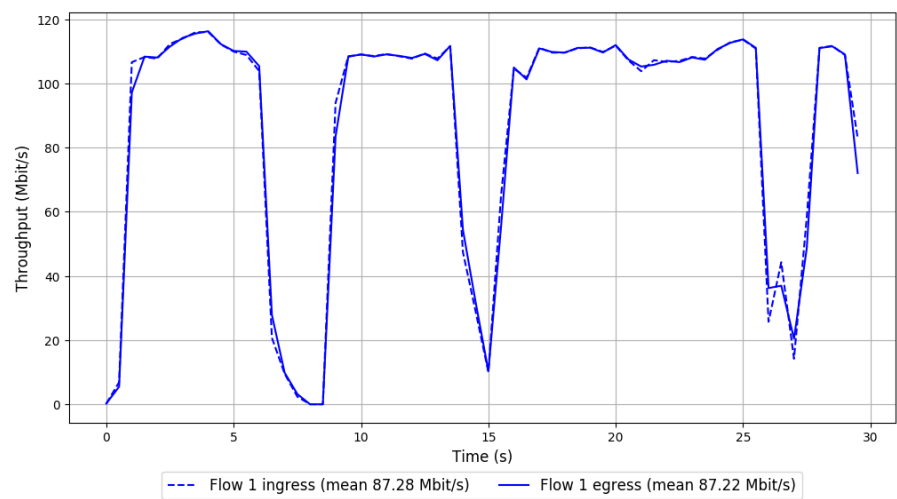


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-02-13 05:22:24
End at: 2018-02-13 05:22:54

# Below is generated by plot.py at 2018-02-13 08:38:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.22 Mbit/s
95th percentile per-packet one-way delay: 48.762 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 87.22 Mbit/s
95th percentile per-packet one-way delay: 48.762 ms
Loss rate: 0.41%
```

Run 10: Report of QUIC Cubic — Data Link

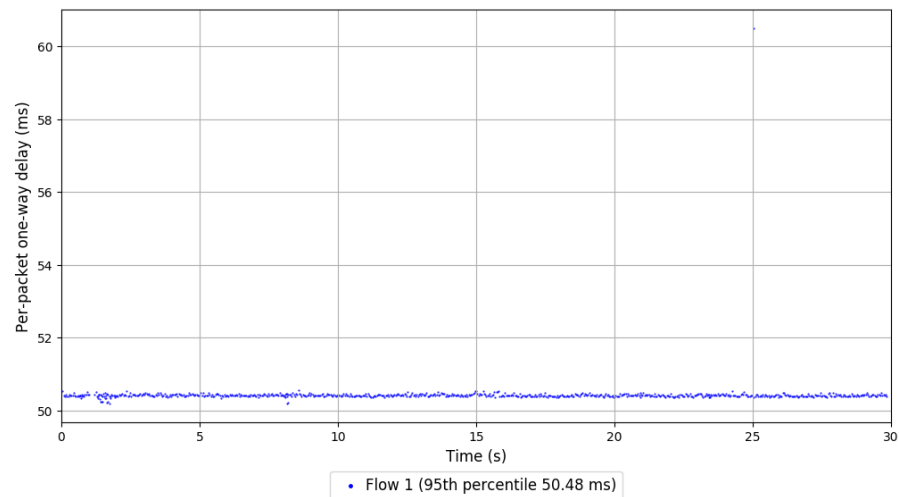
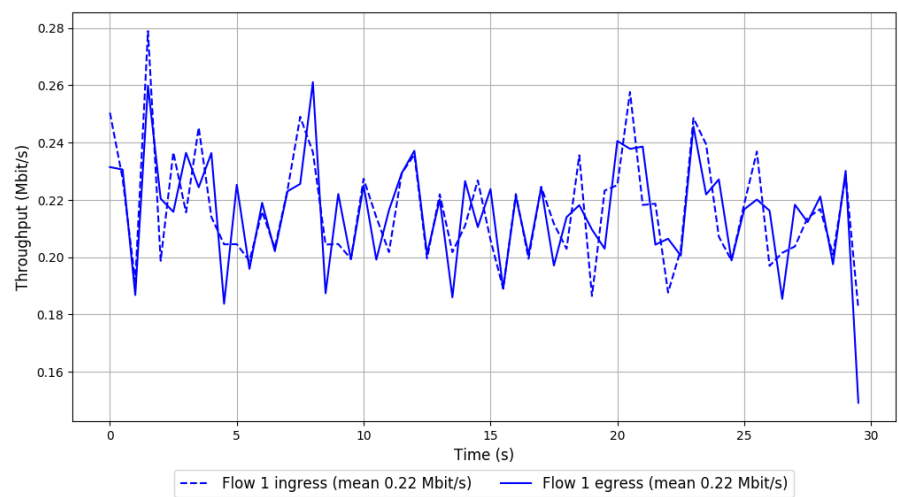


```
Run 1: Statistics of SCReAM

Start at: 2018-02-13 03:16:38
End at: 2018-02-13 03:17:08

# Below is generated by plot.py at 2018-02-13 08:38:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.482 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.482 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link

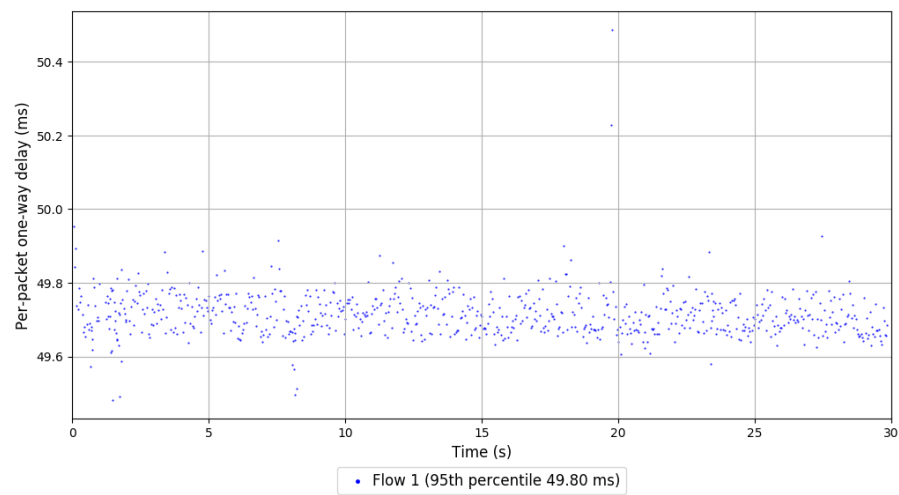
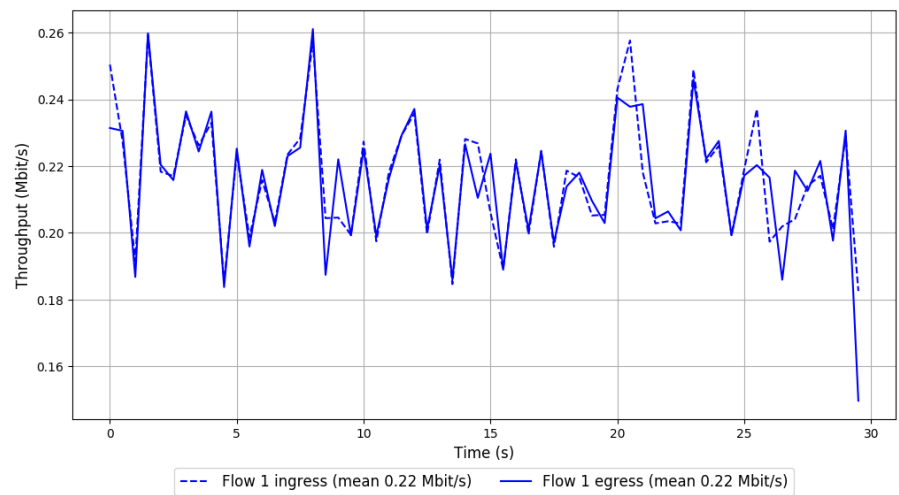


```
Run 2: Statistics of SCReAM

Start at: 2018-02-13 03:31:25
End at: 2018-02-13 03:31:55

# Below is generated by plot.py at 2018-02-13 08:38:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.804 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.804 ms
Loss rate: 0.38%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-13 03:46:14

End at: 2018-02-13 03:46:44

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.855 ms

Loss rate: 0.38%

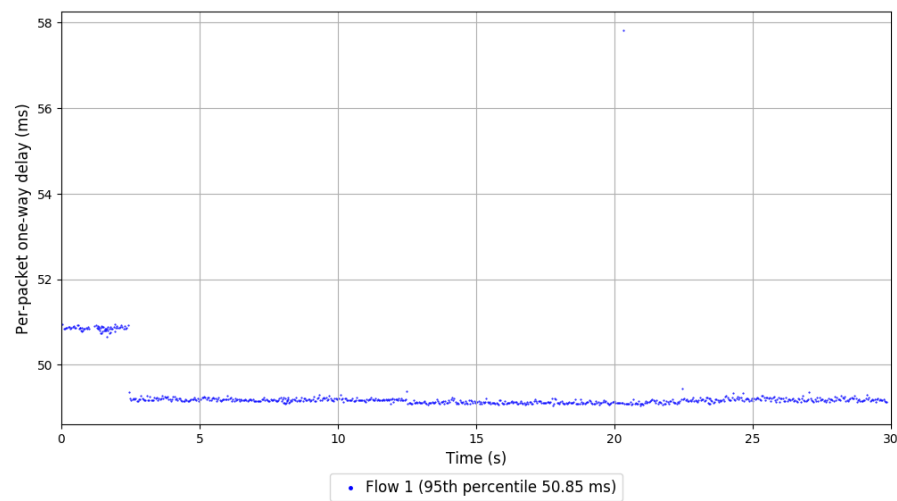
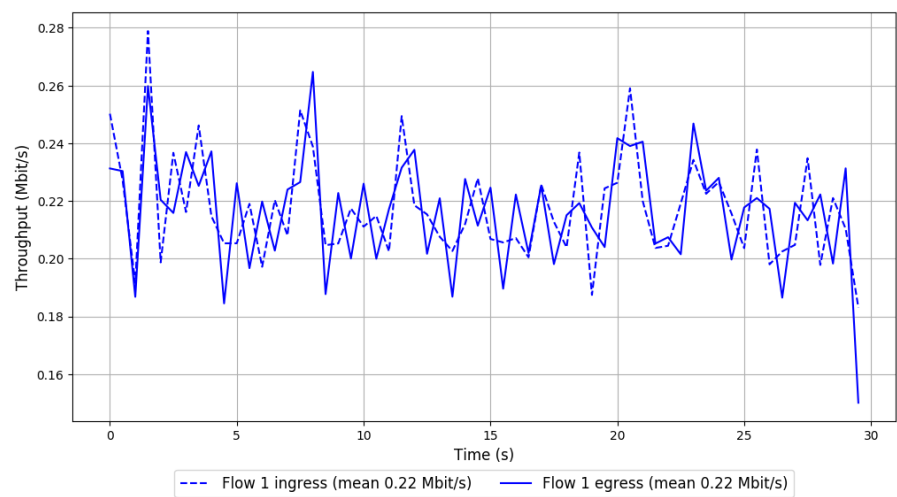
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.855 ms

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link

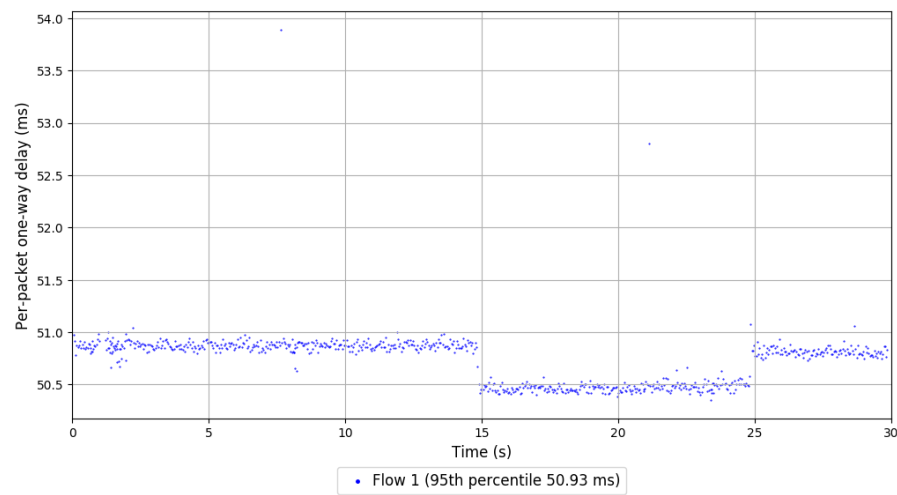
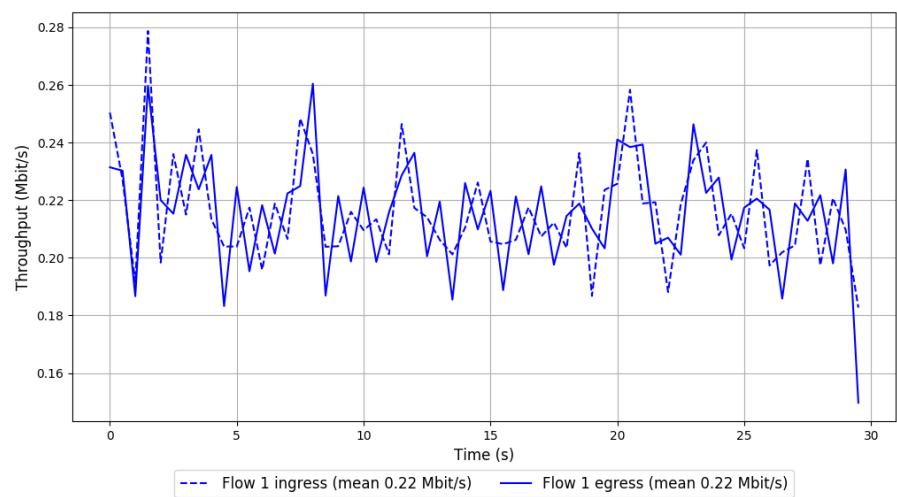


```
Run 4: Statistics of SCReAM

Start at: 2018-02-13 04:01:01
End at: 2018-02-13 04:01:31

# Below is generated by plot.py at 2018-02-13 08:38:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.928 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.928 ms
Loss rate: 0.38%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-13 04:15:45

End at: 2018-02-13 04:16:15

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.806 ms

Loss rate: 0.38%

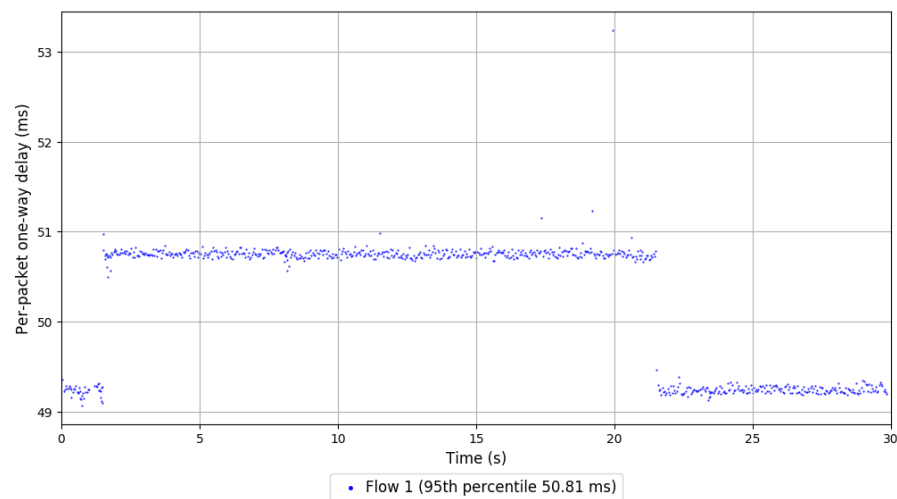
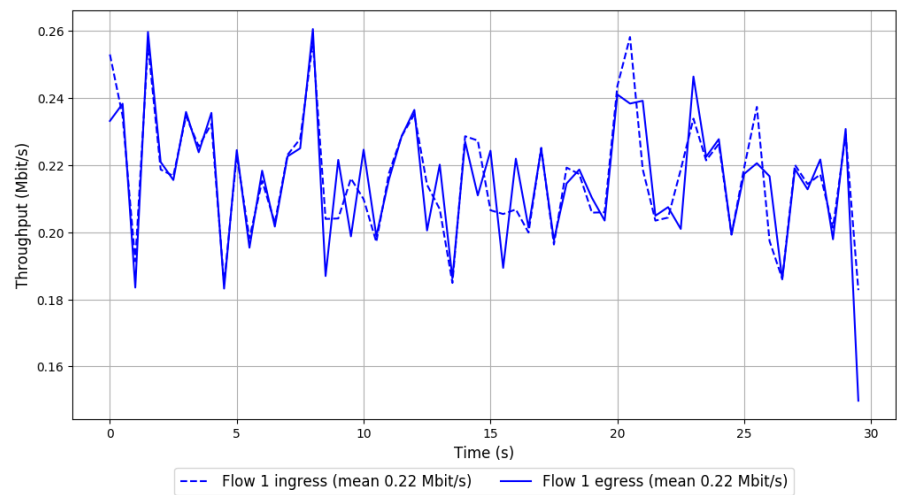
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.806 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-13 04:30:43

End at: 2018-02-13 04:31:13

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.050 ms

Loss rate: 0.38%

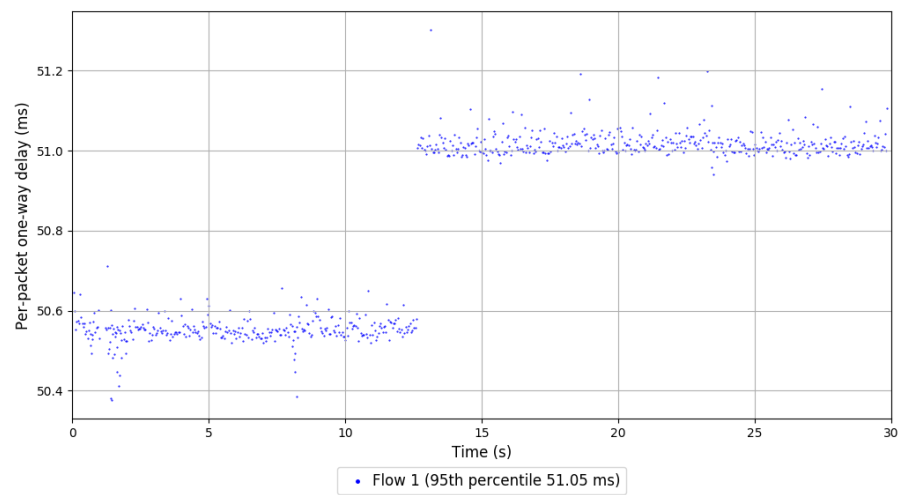
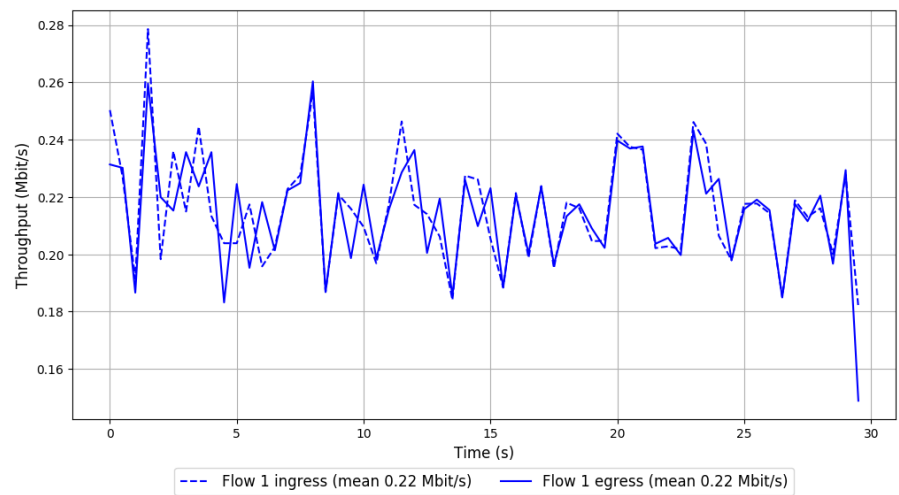
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.050 ms

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-13 04:45:36

End at: 2018-02-13 04:46:07

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.659 ms

Loss rate: 0.38%

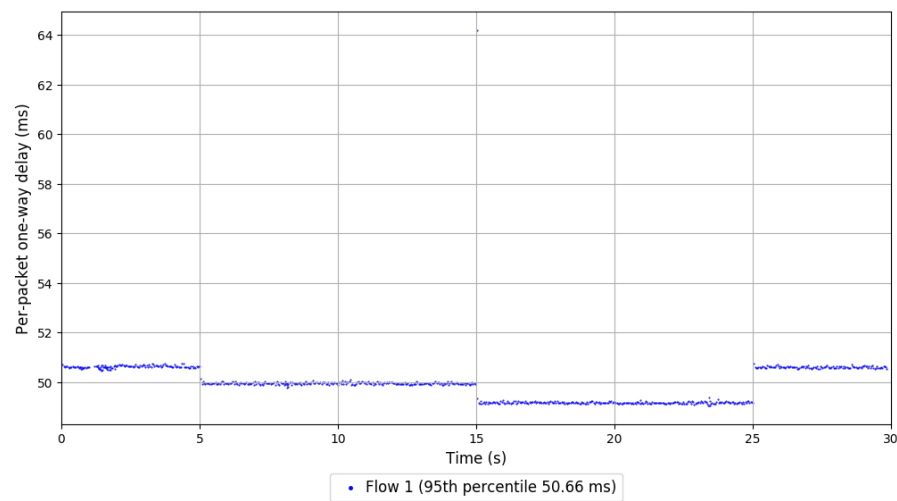
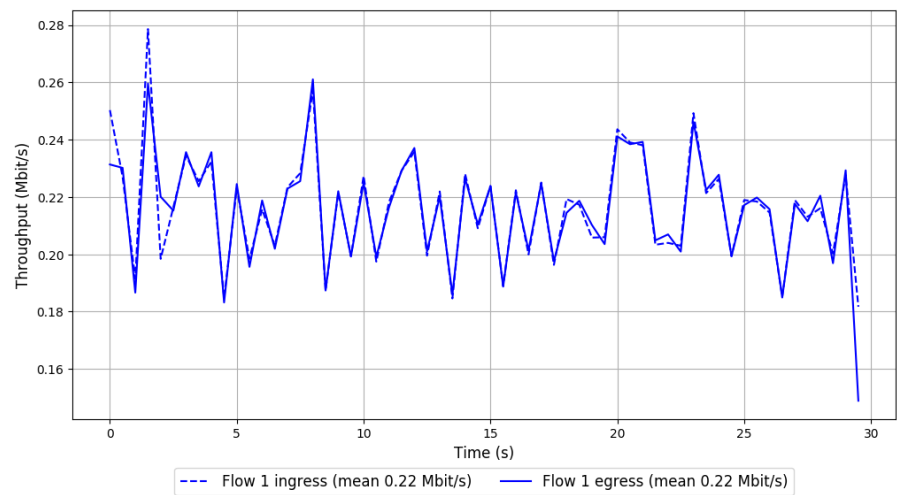
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.659 ms

Loss rate: 0.38%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-13 05:00:19

End at: 2018-02-13 05:00:49

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.783 ms

Loss rate: 0.38%

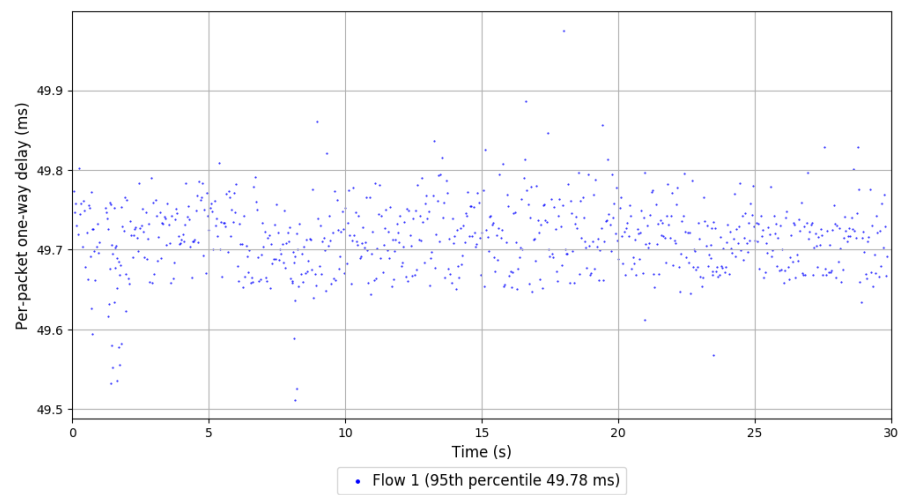
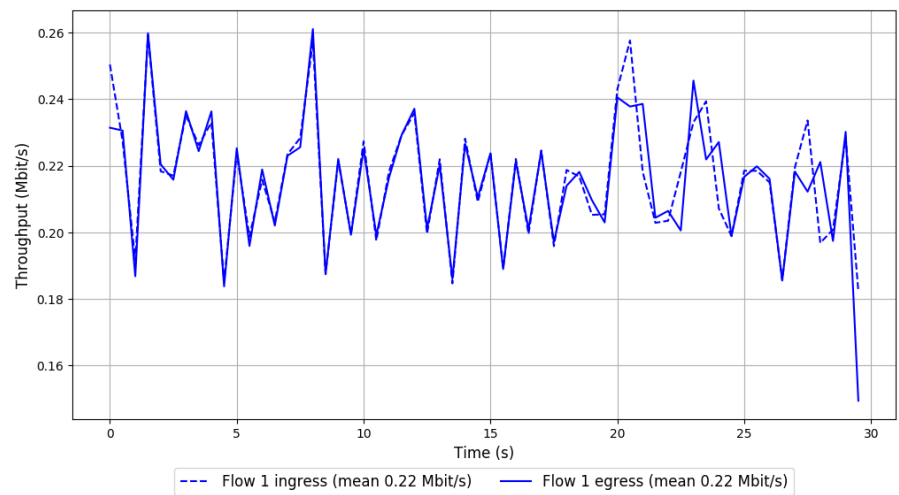
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.783 ms

Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-13 05:15:09

End at: 2018-02-13 05:15:39

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.805 ms

Loss rate: 0.38%

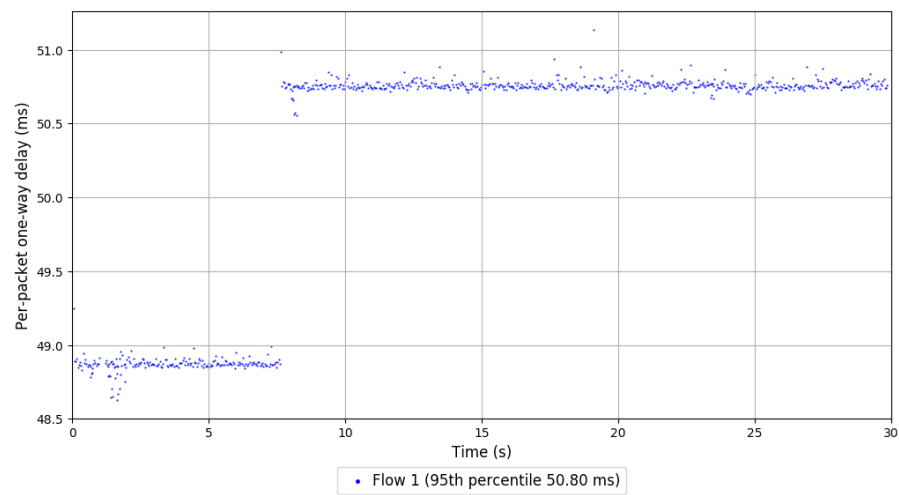
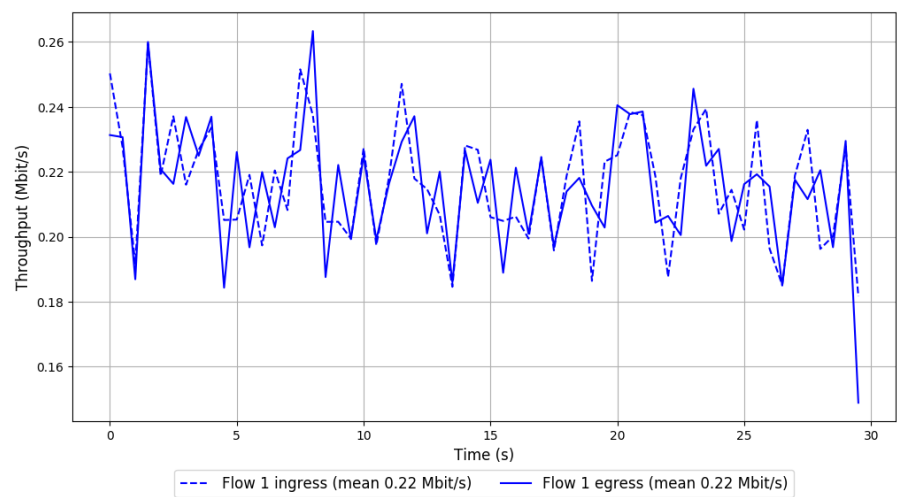
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.805 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link

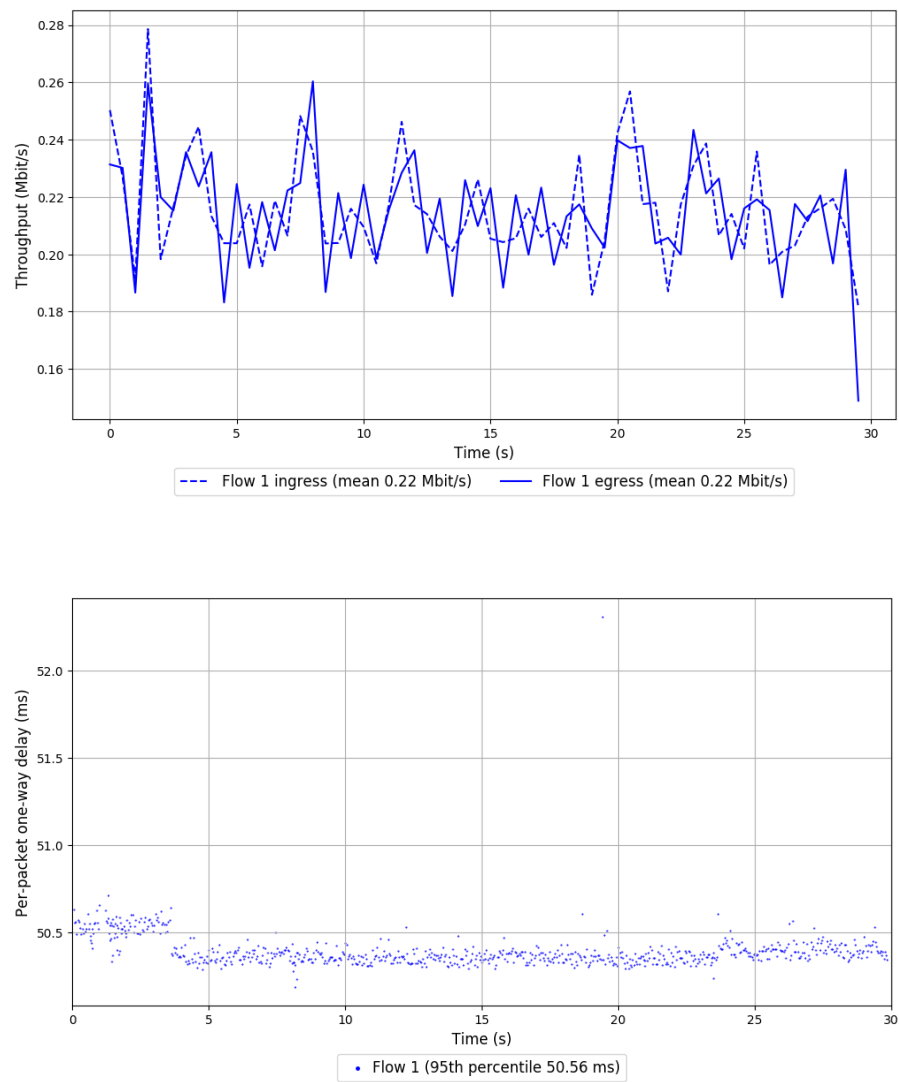


```
Run 10: Statistics of SReAM

Start at: 2018-02-13 05:29:53
End at: 2018-02-13 05:30:23

# Below is generated by plot.py at 2018-02-13 08:38:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.556 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.556 ms
Loss rate: 0.38%
```

Run 10: Report of SReAM — Data Link

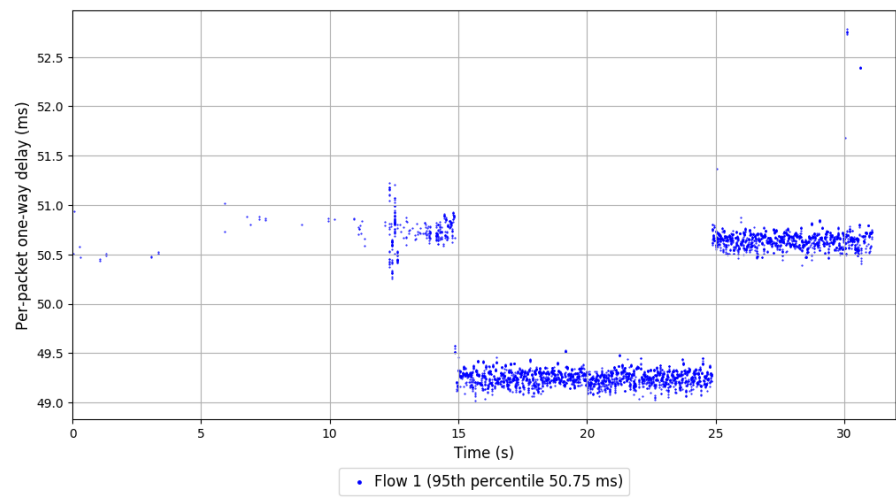
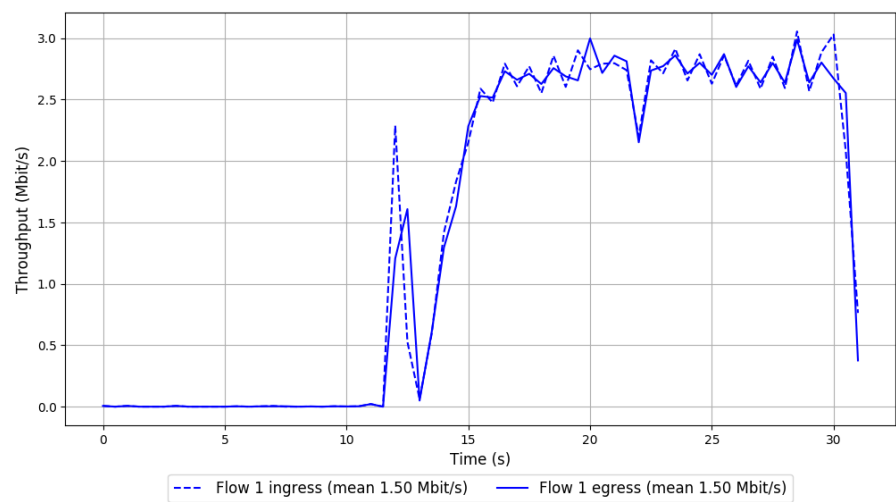


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-13 03:20:48
End at: 2018-02-13 03:21:18

# Below is generated by plot.py at 2018-02-13 08:38:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: 50.754 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: 50.754 ms
Loss rate: 0.61%
```


Run 1: Report of WebRTC media — Data Link

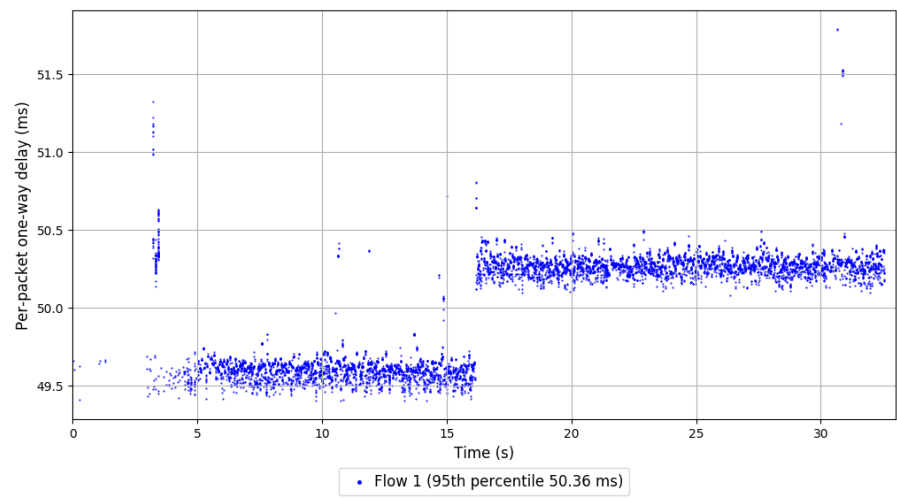
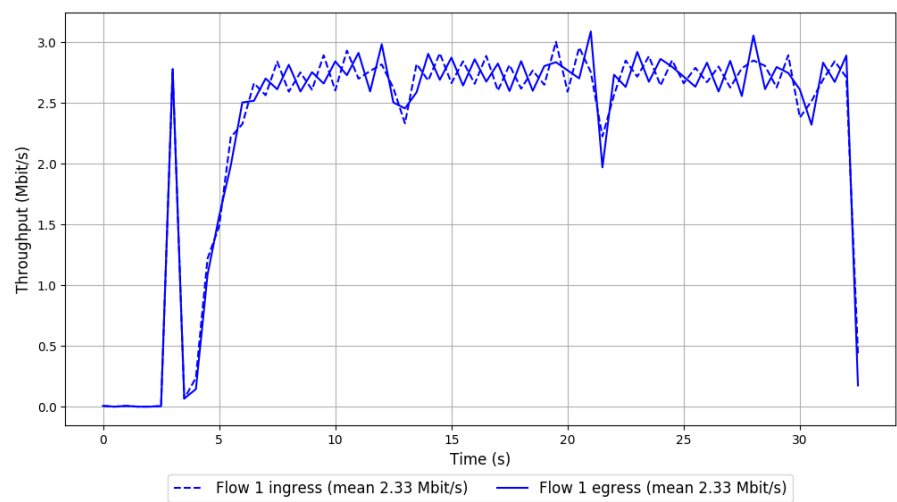


```
Run 2: Statistics of WebRTC media

Start at: 2018-02-13 03:35:38
End at: 2018-02-13 03:36:08

# Below is generated by plot.py at 2018-02-13 08:38:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 50.358 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 50.358 ms
Loss rate: 0.31%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-13 03:50:23

End at: 2018-02-13 03:50:53

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 51.063 ms

Loss rate: 0.43%

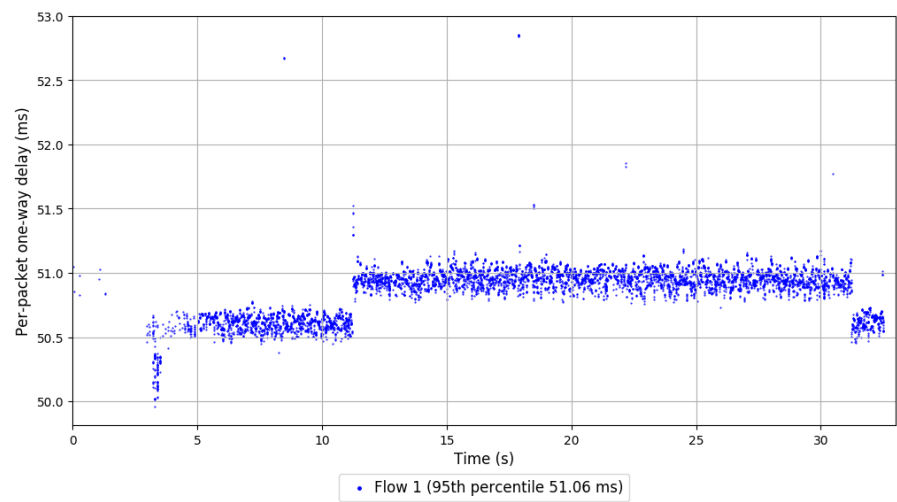
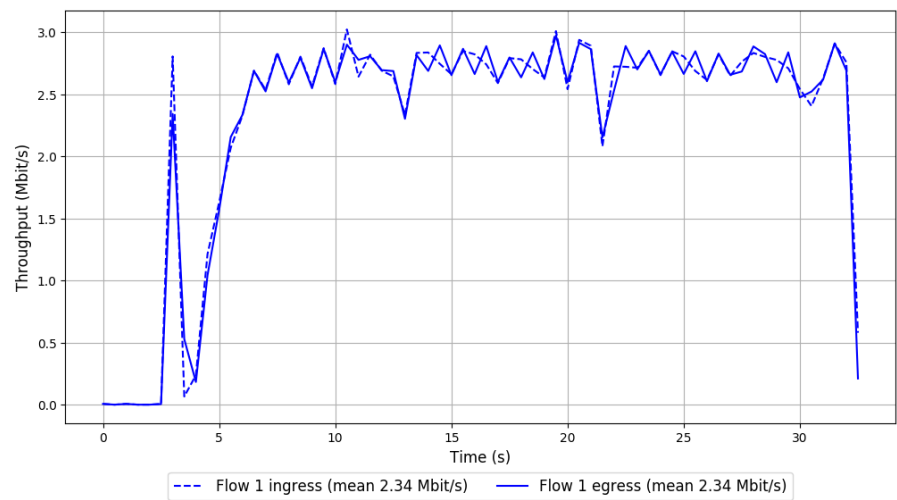
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 51.063 ms

Loss rate: 0.43%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-13 04:05:08

End at: 2018-02-13 04:05:38

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 51.203 ms

Loss rate: 0.33%

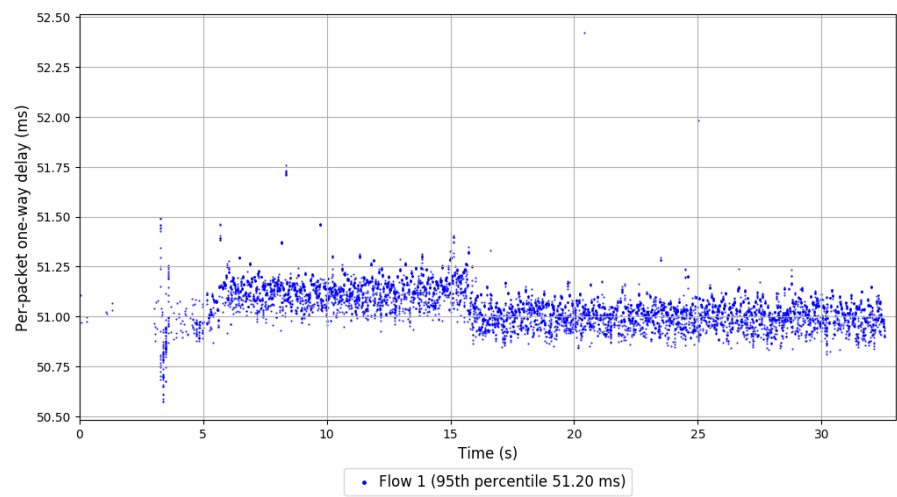
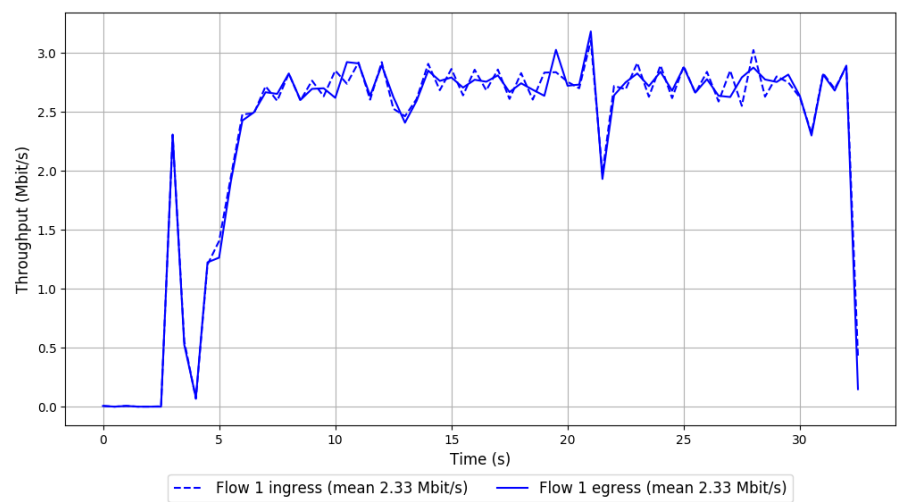
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 51.203 ms

Loss rate: 0.33%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-13 04:19:56

End at: 2018-02-13 04:20:26

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 50.722 ms

Loss rate: 0.28%

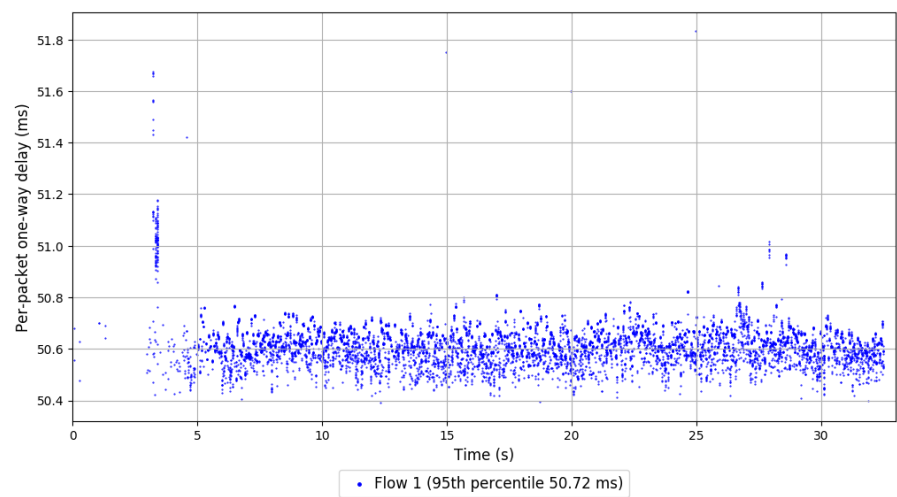
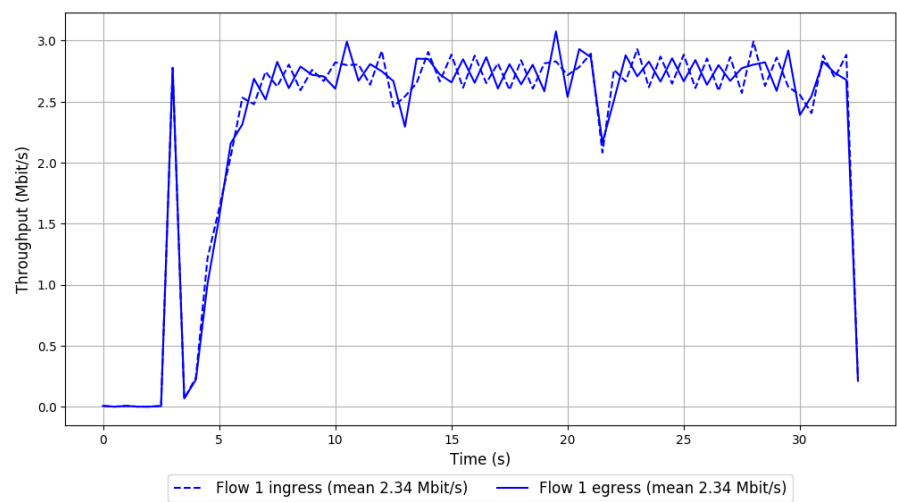
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 50.722 ms

Loss rate: 0.28%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-13 04:35:00

End at: 2018-02-13 04:35:30

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 50.652 ms

Loss rate: 0.30%

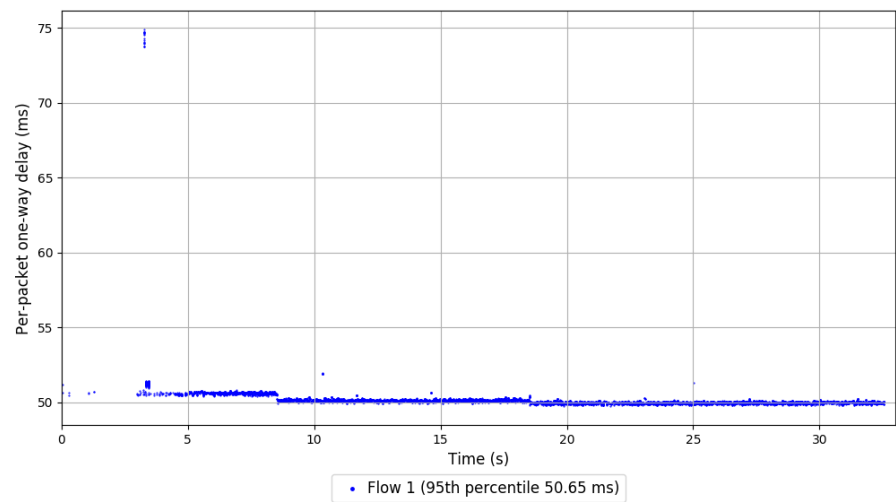
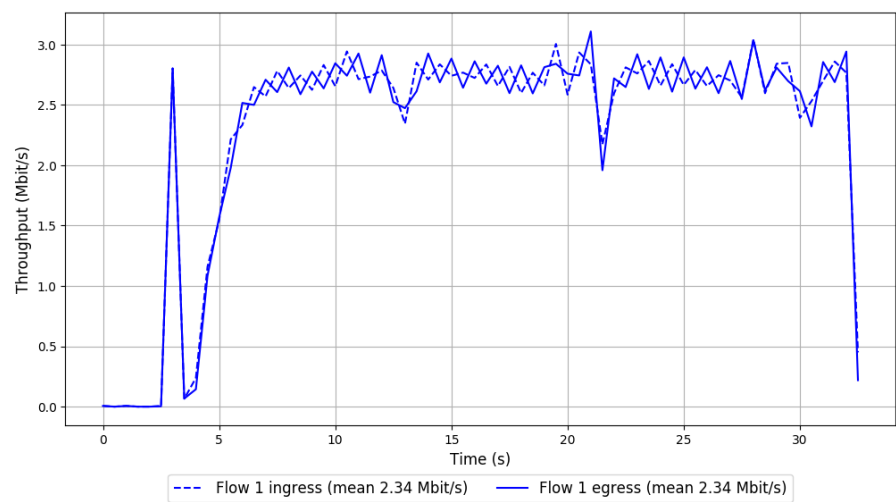
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 50.652 ms

Loss rate: 0.30%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-13 04:49:47

End at: 2018-02-13 04:50:17

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.712 ms

Loss rate: 0.40%

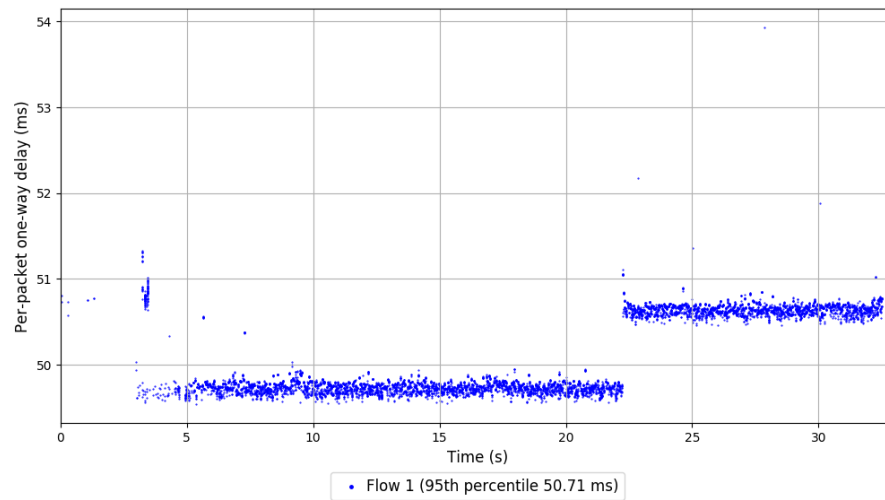
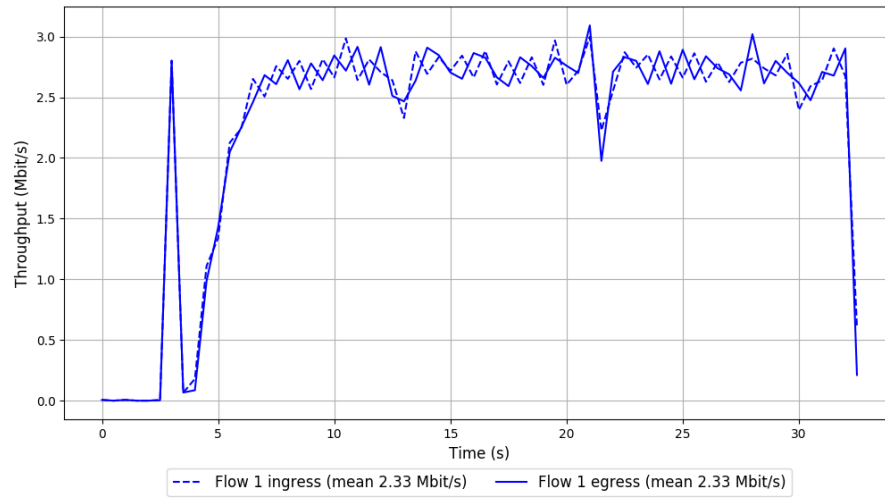
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.712 ms

Loss rate: 0.40%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-13 05:04:33

End at: 2018-02-13 05:05:03

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.578 ms

Loss rate: 0.29%

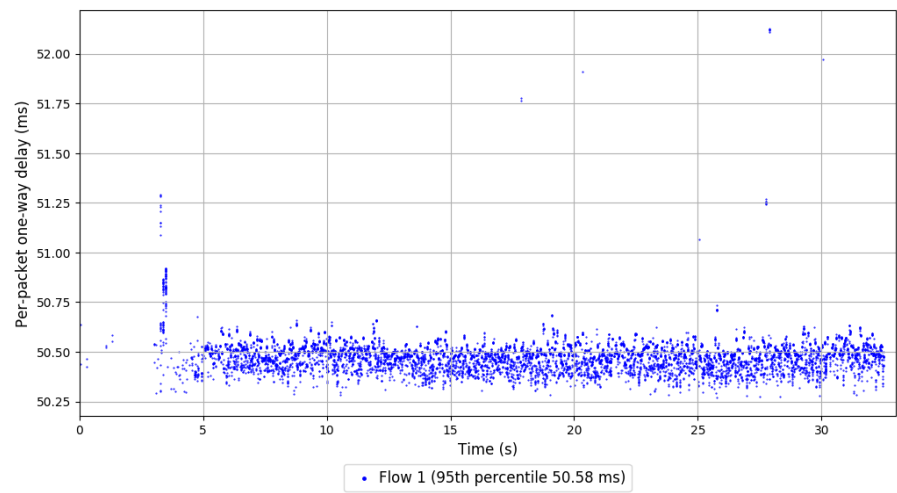
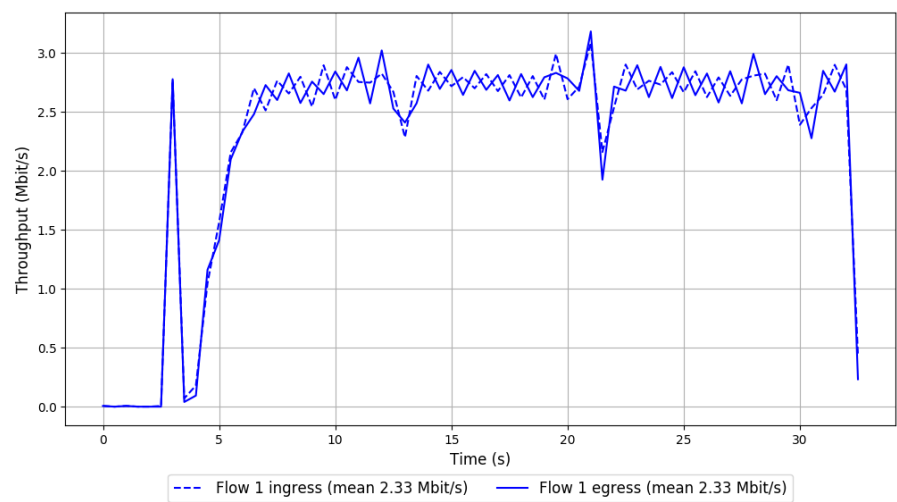
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.578 ms

Loss rate: 0.29%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-13 05:19:19

End at: 2018-02-13 05:19:49

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.638 ms

Loss rate: 0.44%

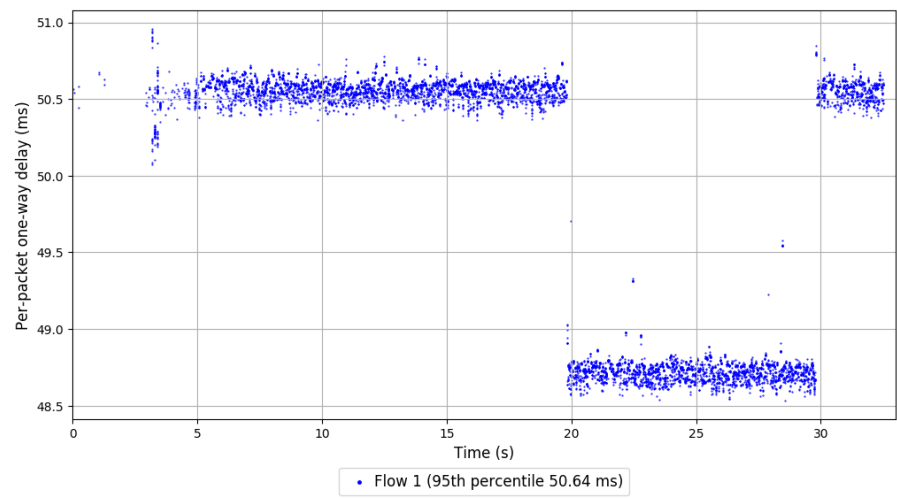
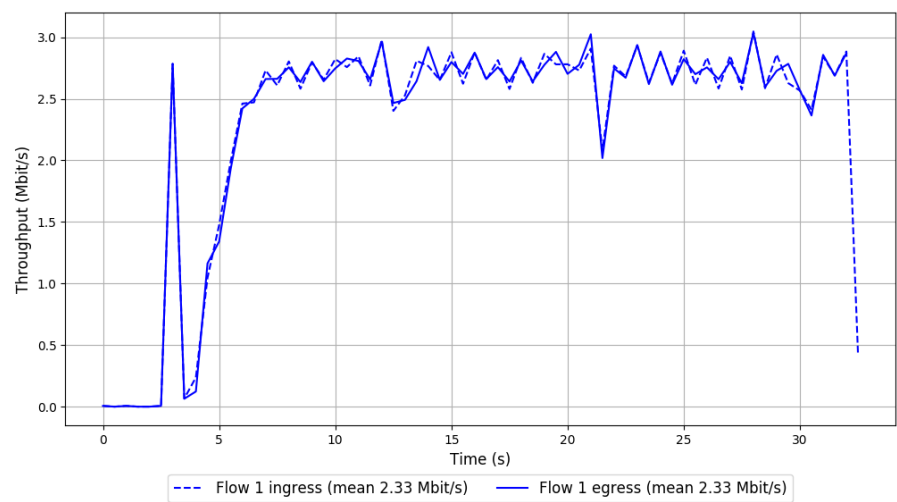
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.638 ms

Loss rate: 0.44%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-13 05:34:05

End at: 2018-02-13 05:34:35

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 51.104 ms

Loss rate: 0.43%

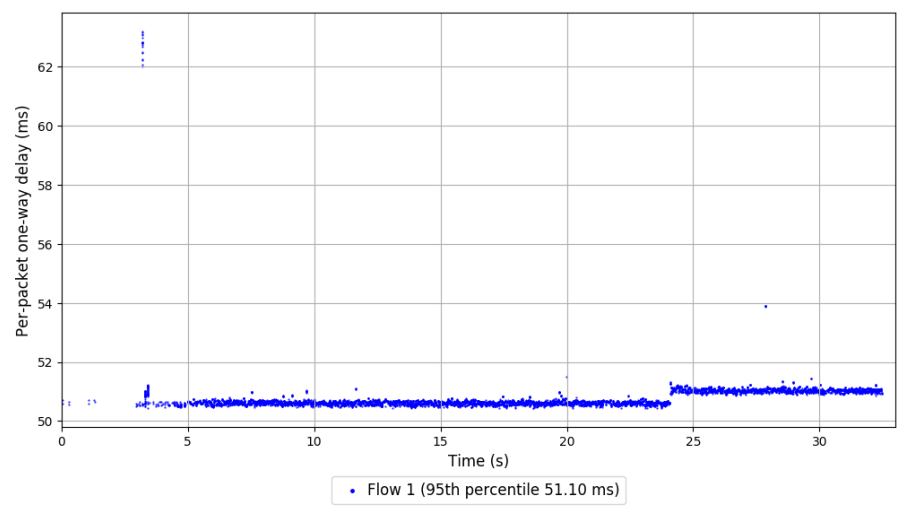
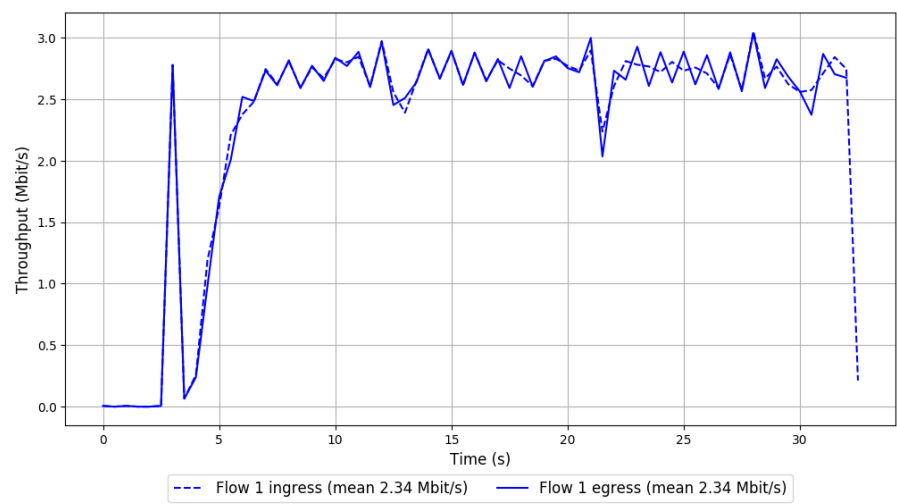
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 51.104 ms

Loss rate: 0.43%

Run 10: Report of WebRTC media — Data Link

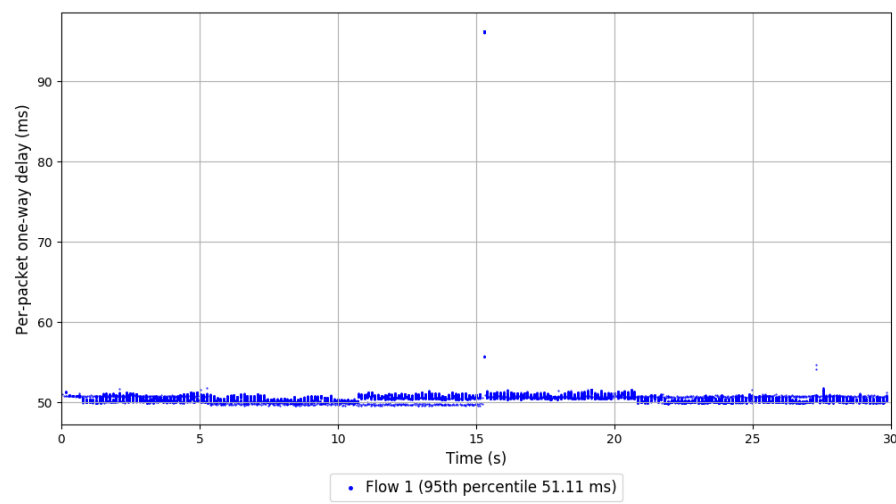
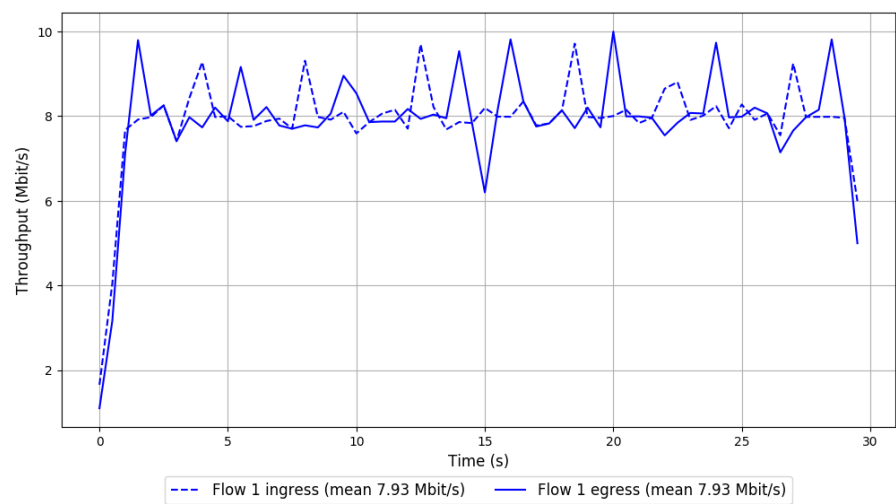


```
Run 1: Statistics of Sprout

Start at: 2018-02-13 03:20:11
End at: 2018-02-13 03:20:41

# Below is generated by plot.py at 2018-02-13 08:38:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.93 Mbit/s
95th percentile per-packet one-way delay: 51.111 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 7.93 Mbit/s
95th percentile per-packet one-way delay: 51.111 ms
Loss rate: 0.25%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-13 03:35:01

End at: 2018-02-13 03:35:31

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 50.535 ms

Loss rate: 0.92%

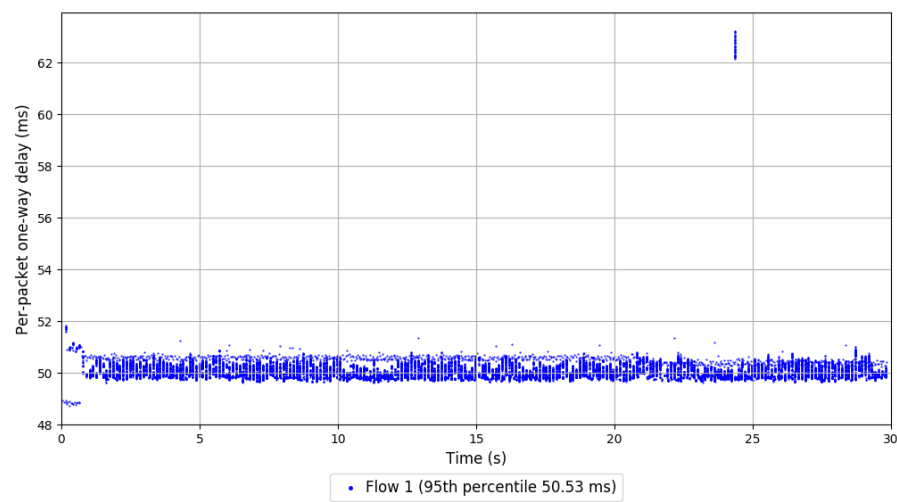
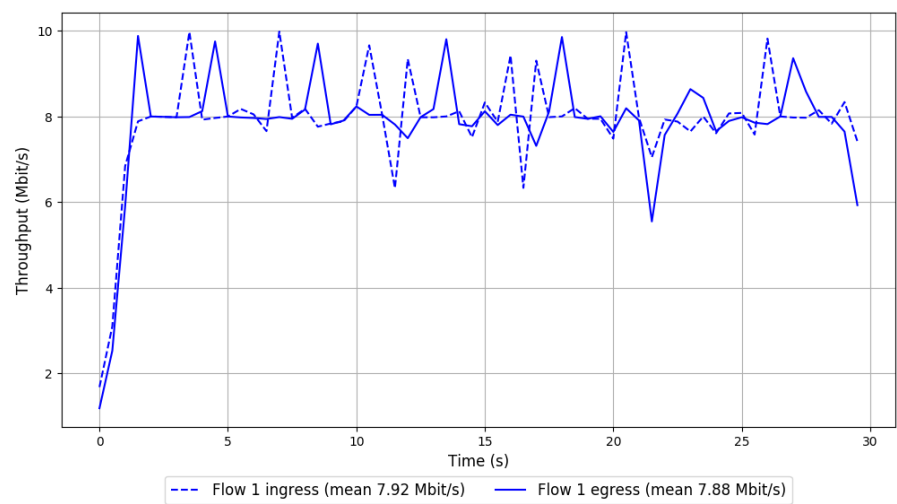
-- Flow 1:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 50.535 ms

Loss rate: 0.92%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-13 03:49:46

End at: 2018-02-13 03:50:16

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 51.748 ms

Loss rate: 0.44%

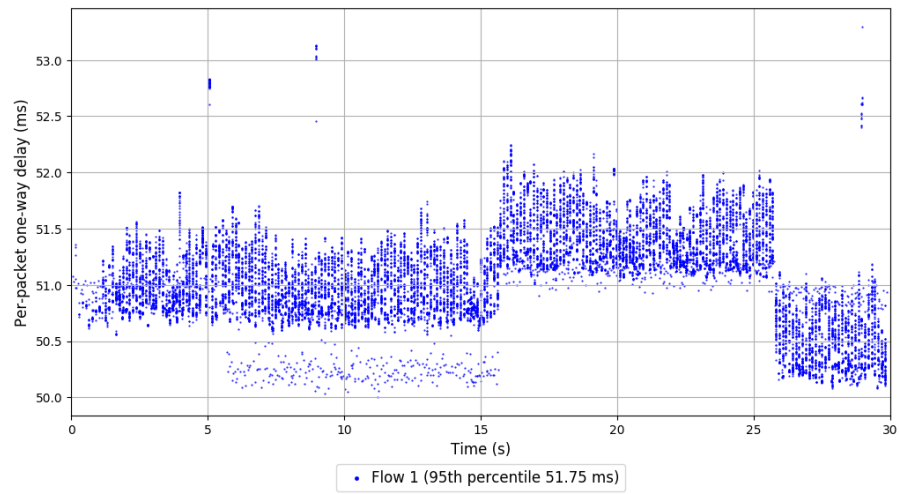
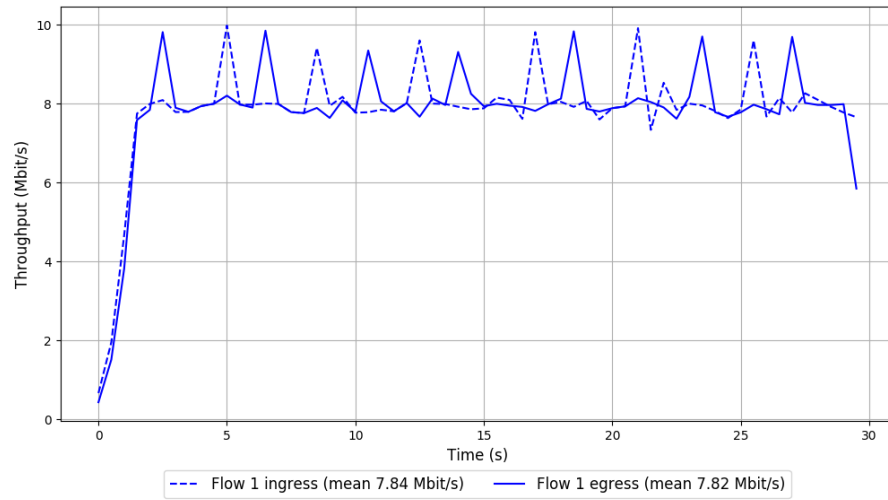
-- Flow 1:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 51.748 ms

Loss rate: 0.44%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-13 04:04:31

End at: 2018-02-13 04:05:01

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.477 ms

Loss rate: 0.42%

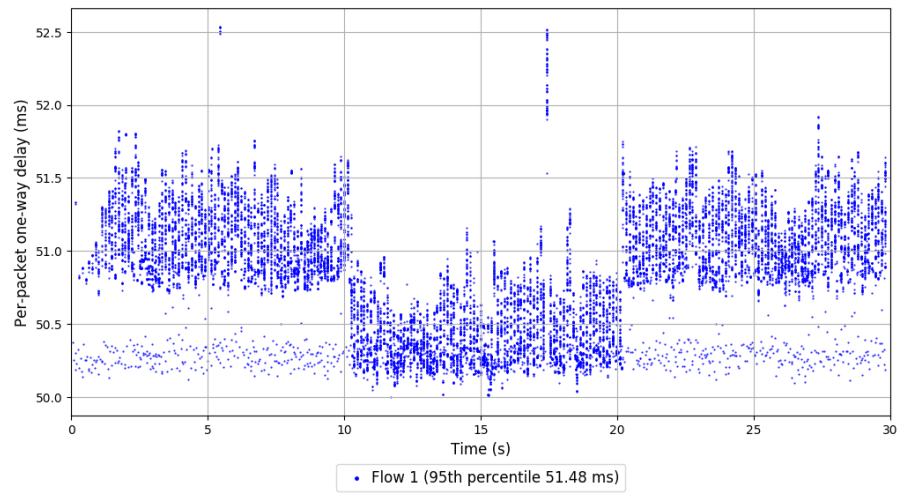
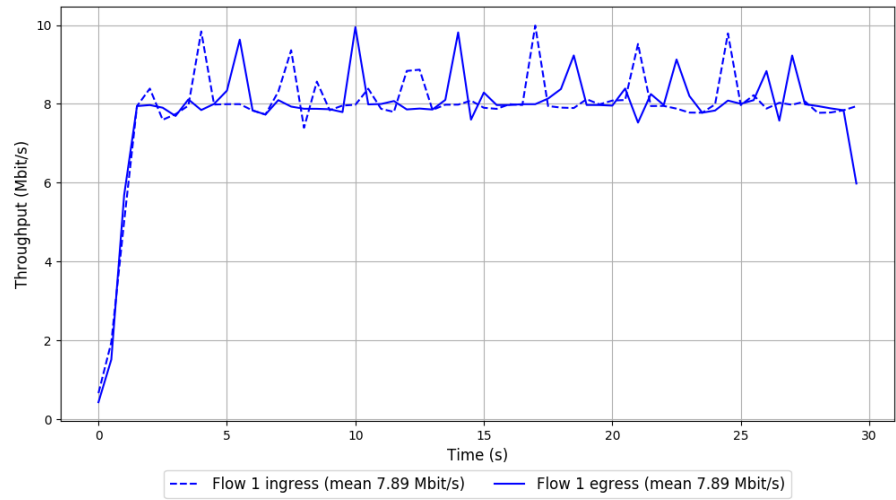
-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.477 ms

Loss rate: 0.42%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-13 04:19:19

End at: 2018-02-13 04:19:49

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 51.596 ms

Loss rate: 0.15%

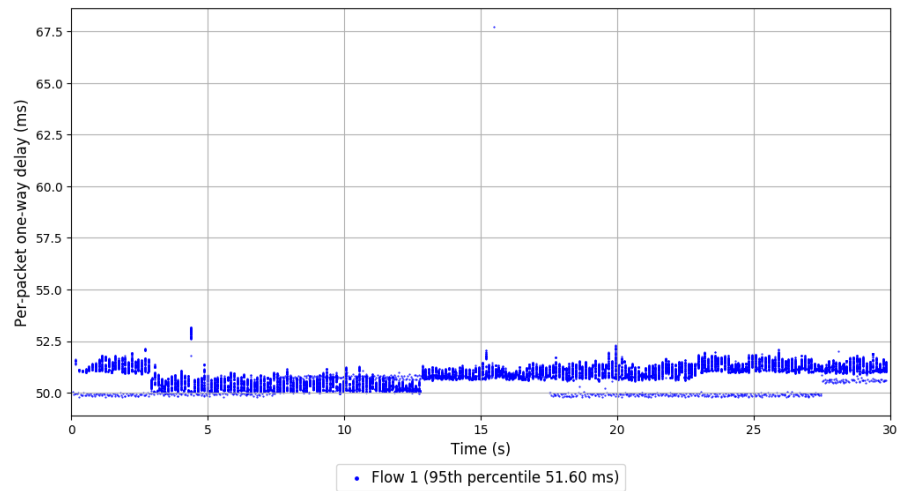
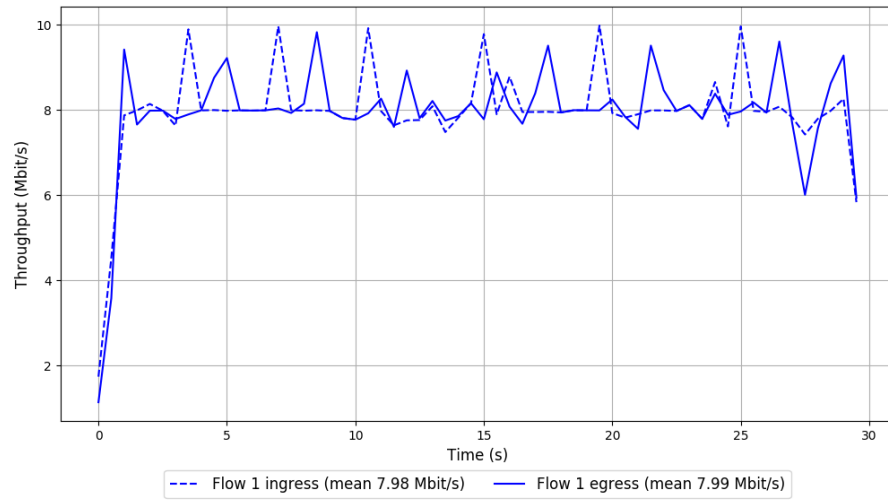
-- Flow 1:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 51.596 ms

Loss rate: 0.15%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-13 04:34:23

End at: 2018-02-13 04:34:53

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 51.615 ms

Loss rate: 0.27%

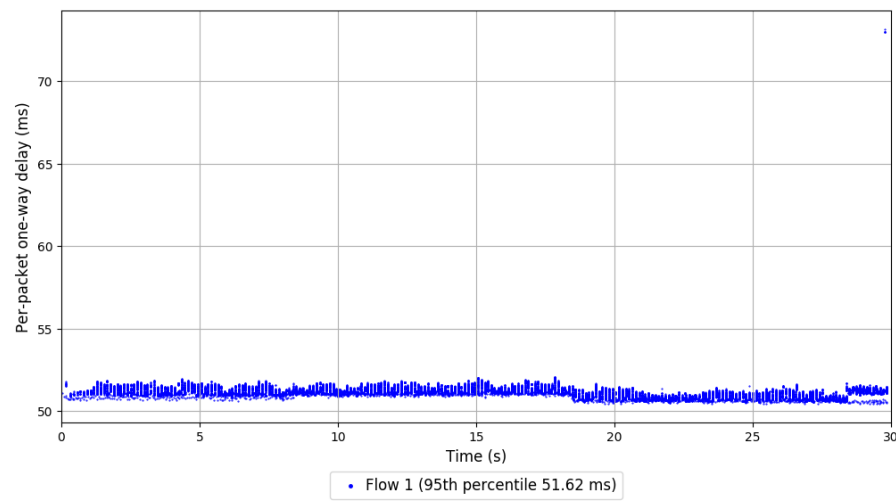
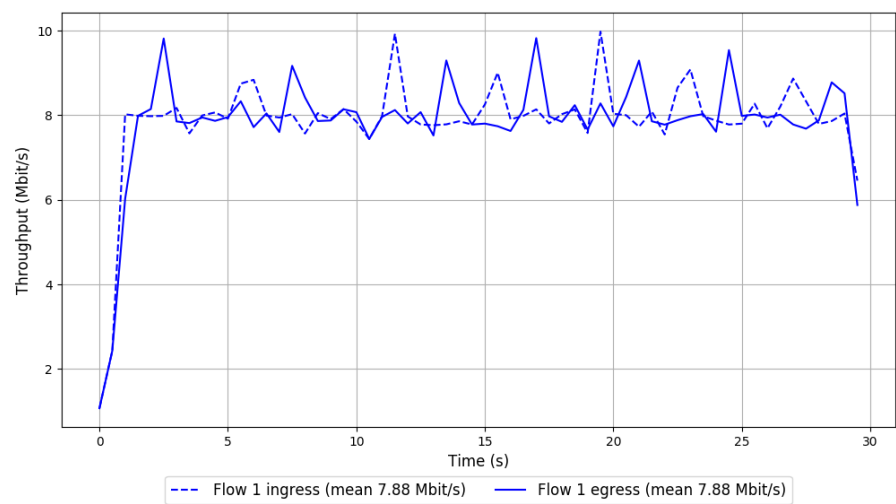
-- Flow 1:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 51.615 ms

Loss rate: 0.27%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-13 04:49:09

End at: 2018-02-13 04:49:39

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 51.598 ms

Loss rate: 0.64%

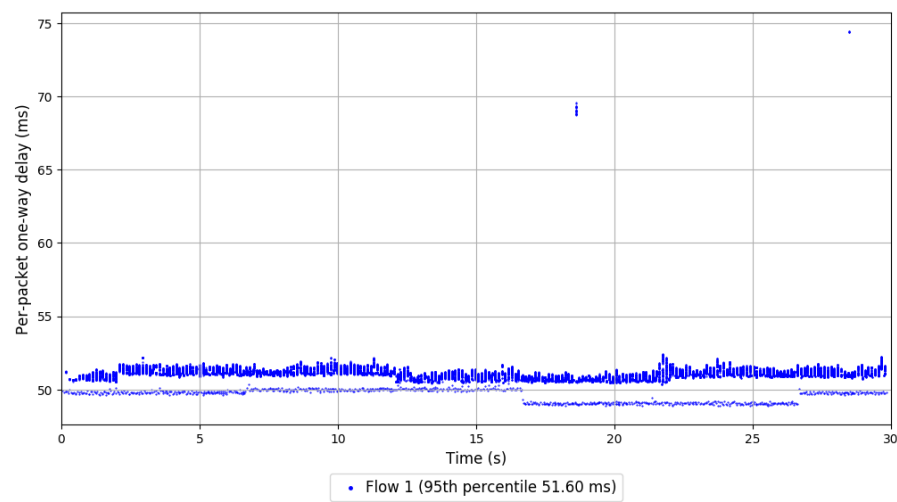
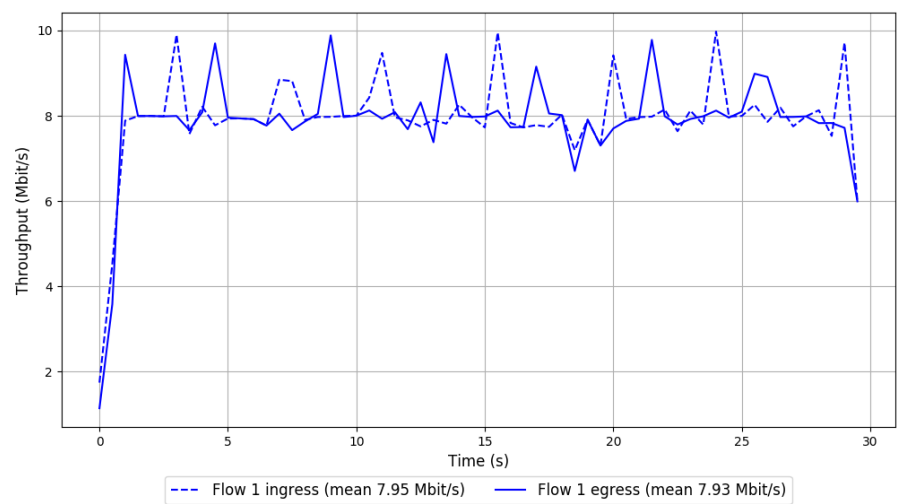
-- Flow 1:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 51.598 ms

Loss rate: 0.64%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-13 05:03:55

End at: 2018-02-13 05:04:25

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 51.394 ms

Loss rate: 0.02%

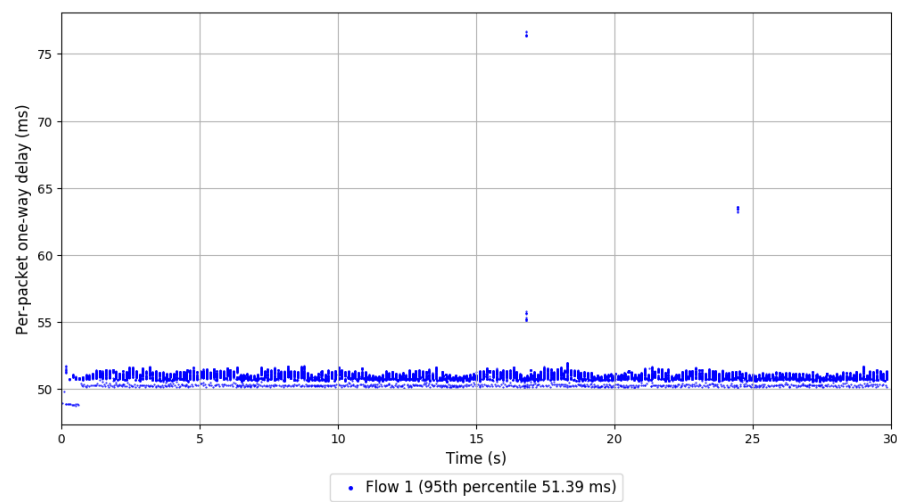
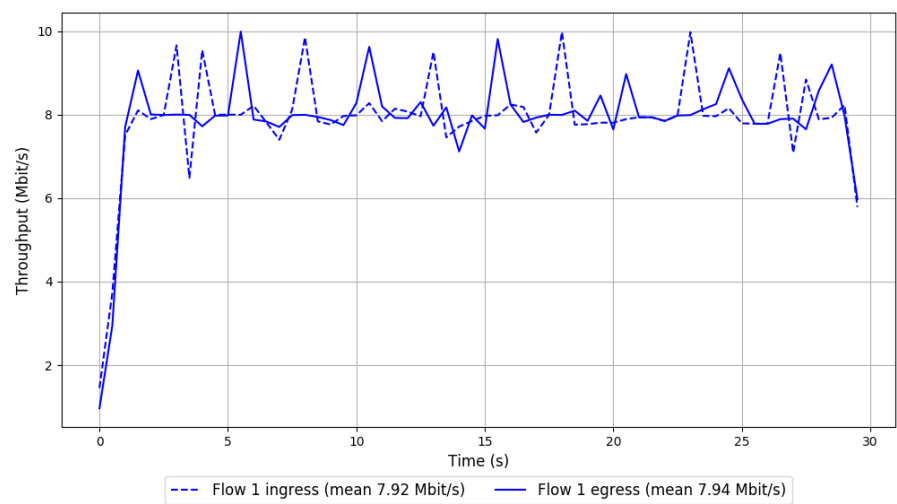
-- Flow 1:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 51.394 ms

Loss rate: 0.02%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-13 05:18:42

End at: 2018-02-13 05:19:12

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 51.286 ms

Loss rate: 0.47%

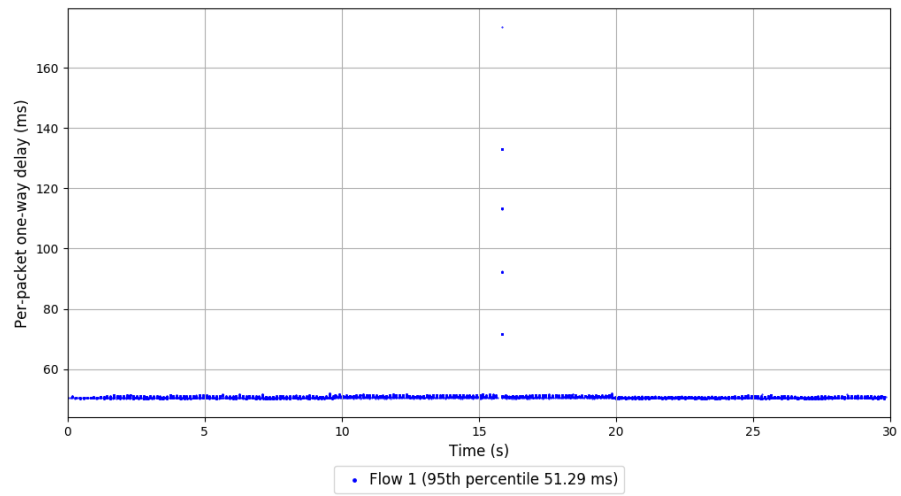
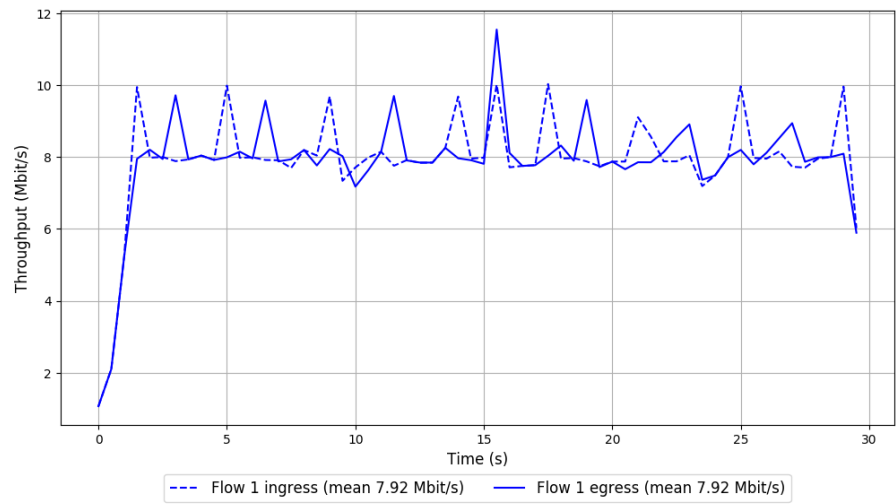
-- Flow 1:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 51.286 ms

Loss rate: 0.47%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-13 05:33:27

End at: 2018-02-13 05:33:58

Below is generated by plot.py at 2018-02-13 08:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 51.435 ms

Loss rate: 0.53%

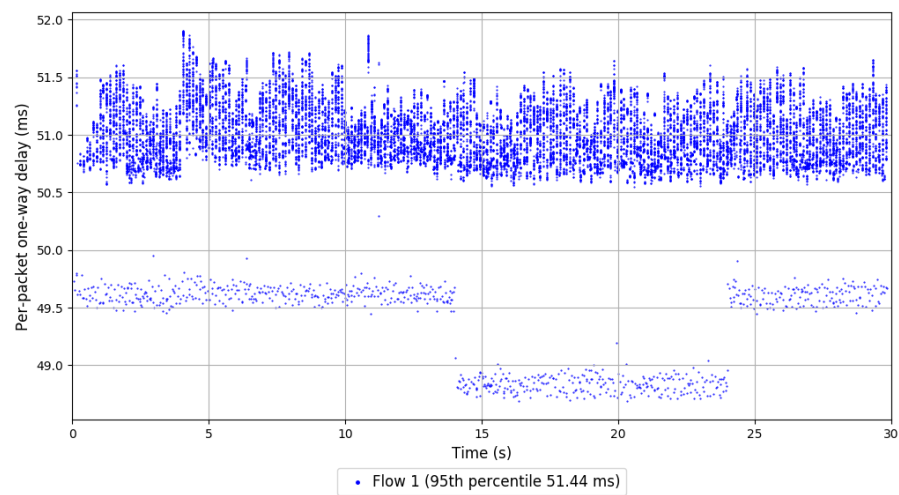
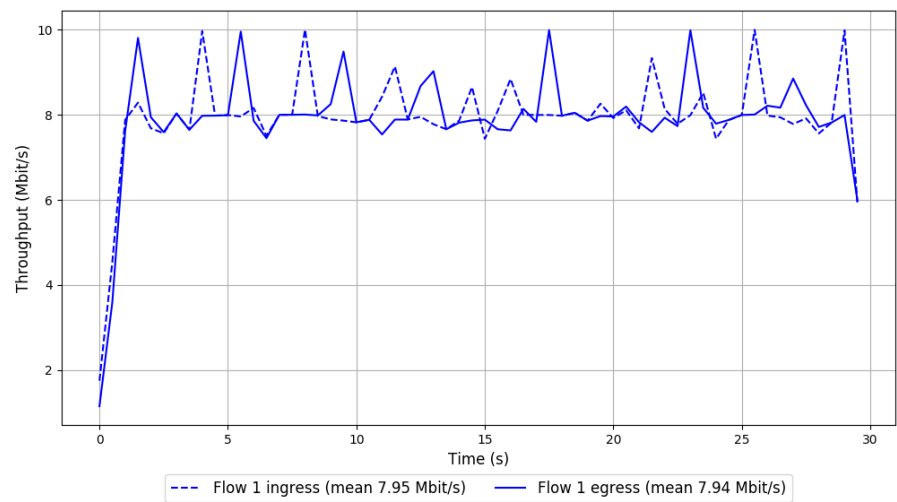
-- Flow 1:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 51.435 ms

Loss rate: 0.53%

Run 10: Report of Sprout — Data Link

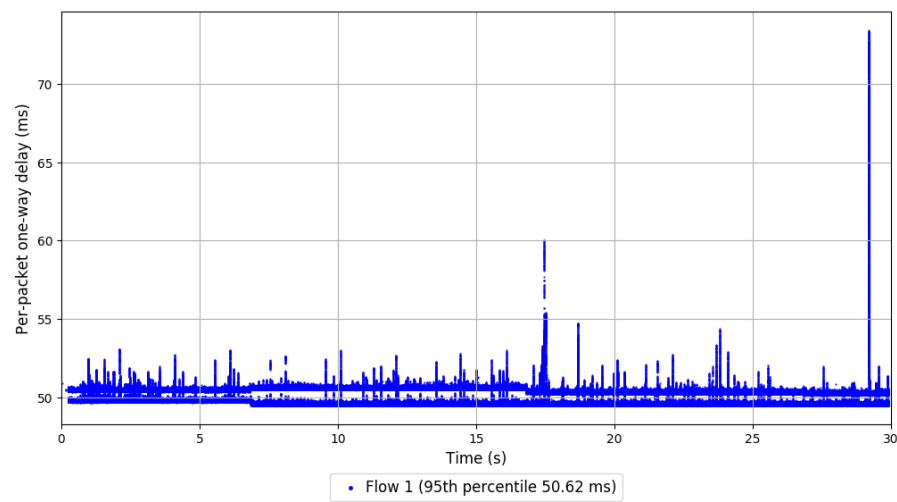
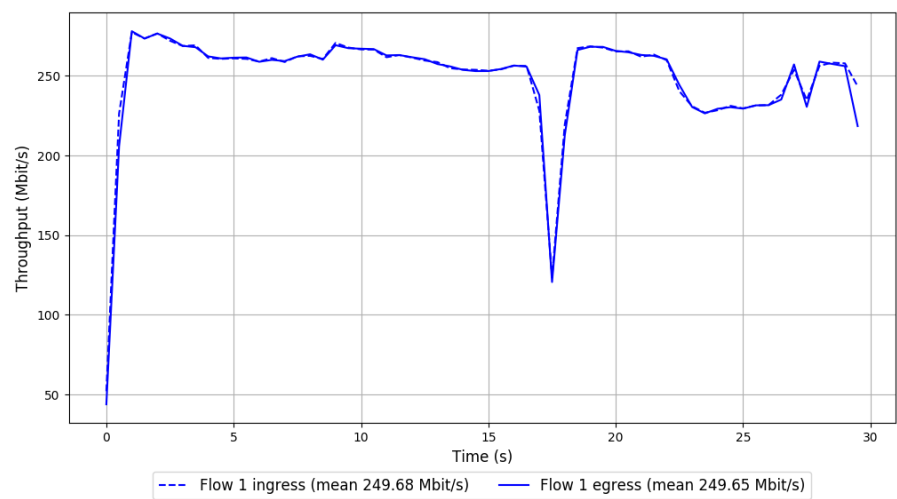


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-13 03:21:25
End at: 2018-02-13 03:21:55

# Below is generated by plot.py at 2018-02-13 08:39:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 249.65 Mbit/s
95th percentile per-packet one-way delay: 50.622 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 249.65 Mbit/s
95th percentile per-packet one-way delay: 50.622 ms
Loss rate: 0.35%
```


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

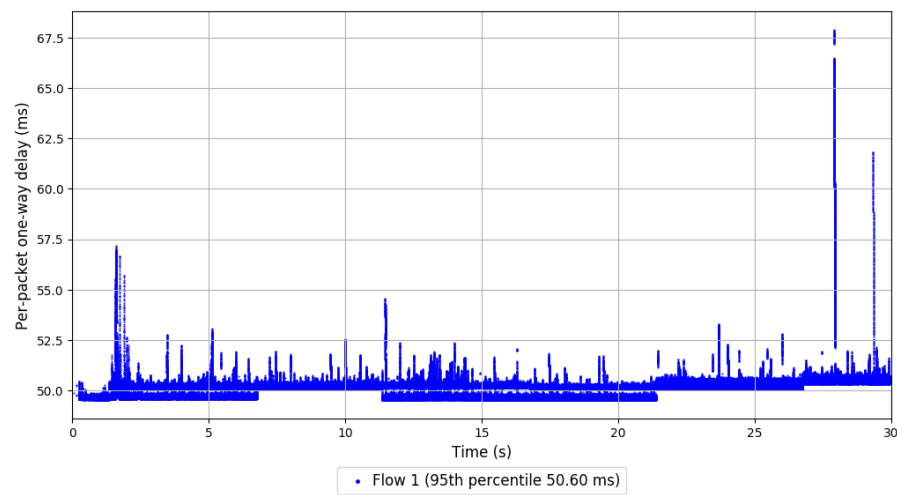
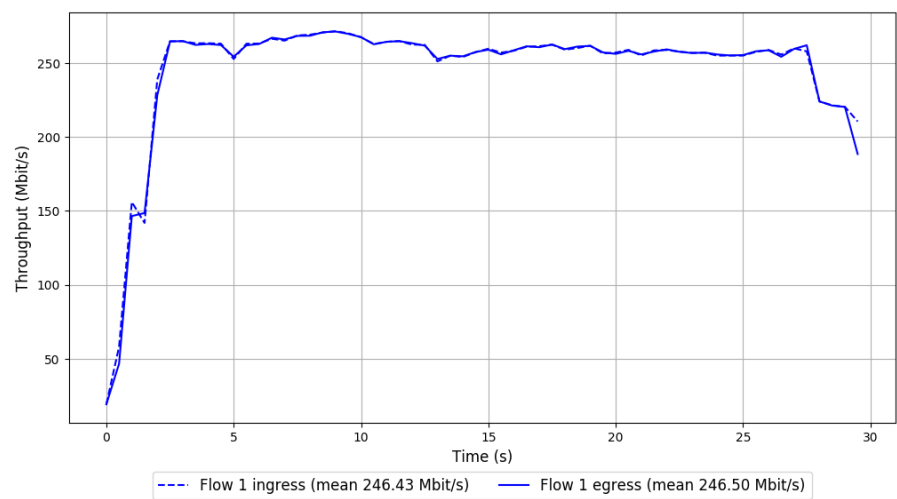


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-13 03:36:15
End at: 2018-02-13 03:36:45

# Below is generated by plot.py at 2018-02-13 08:39:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 246.50 Mbit/s
95th percentile per-packet one-way delay: 50.600 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 246.50 Mbit/s
95th percentile per-packet one-way delay: 50.600 ms
Loss rate: 0.30%
```

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

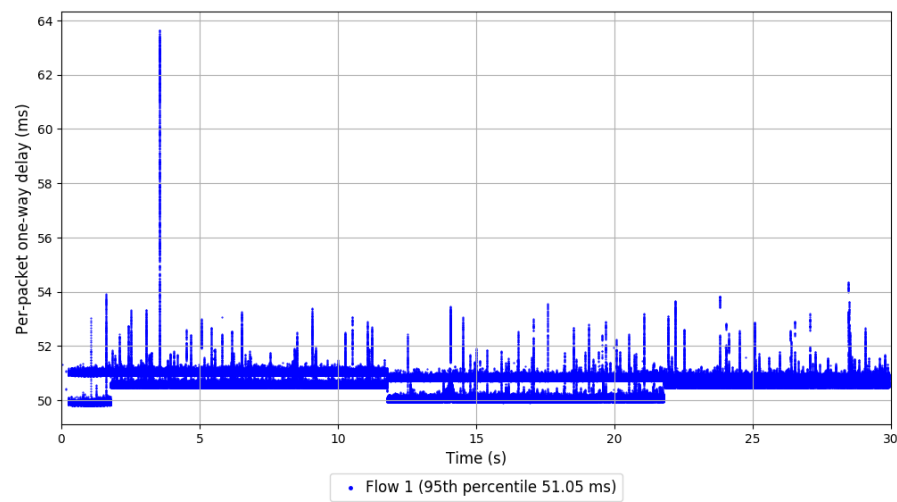
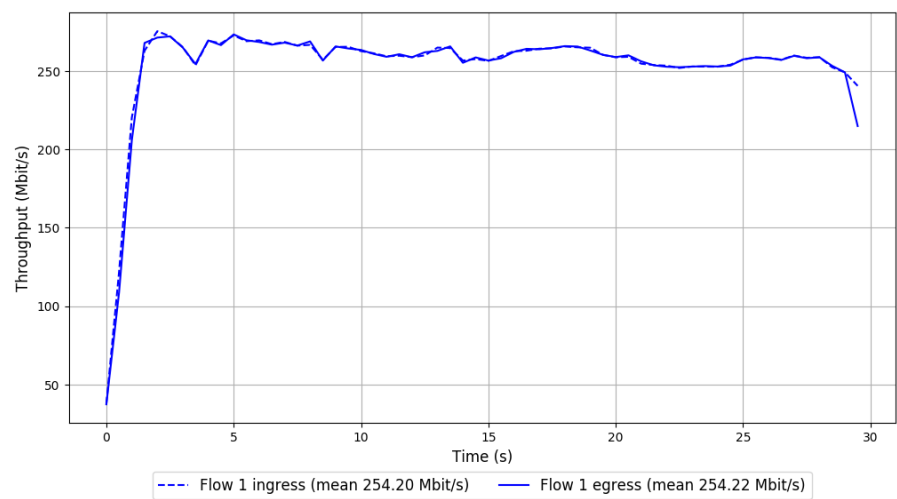


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-02-13 03:51:00
End at: 2018-02-13 03:51:30

# Below is generated by plot.py at 2018-02-13 08:39:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 254.22 Mbit/s
95th percentile per-packet one-way delay: 51.051 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 254.22 Mbit/s
95th percentile per-packet one-way delay: 51.051 ms
Loss rate: 0.33%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-13 04:05:45

End at: 2018-02-13 04:06:15

Below is generated by plot.py at 2018-02-13 08:39:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.24 Mbit/s

95th percentile per-packet one-way delay: 50.943 ms

Loss rate: 0.33%

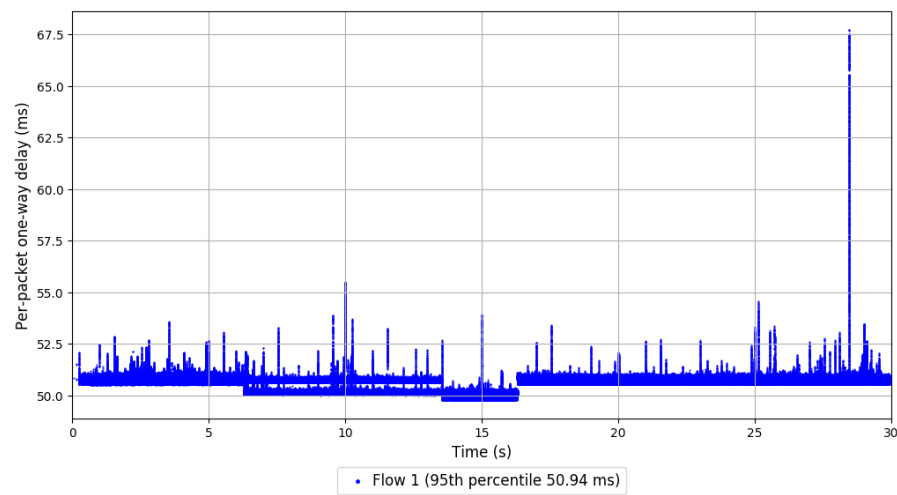
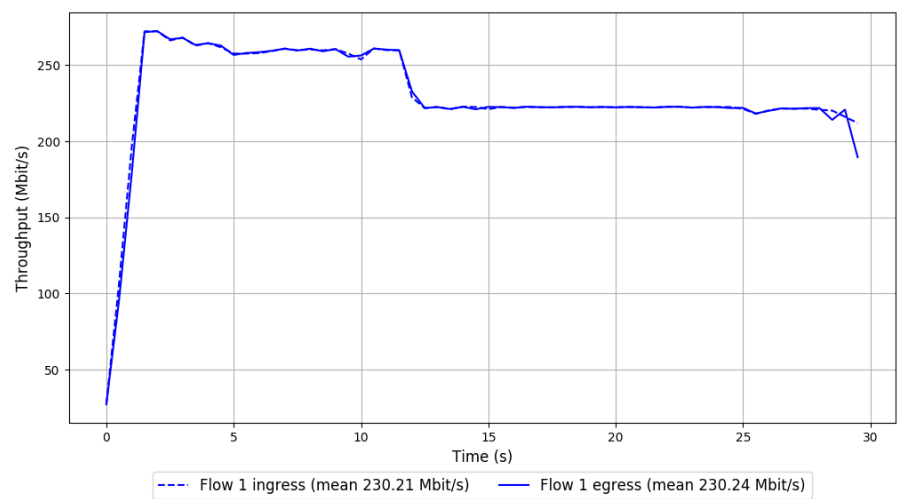
-- Flow 1:

Average throughput: 230.24 Mbit/s

95th percentile per-packet one-way delay: 50.943 ms

Loss rate: 0.33%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-13 04:20:33

End at: 2018-02-13 04:21:03

Below is generated by plot.py at 2018-02-13 08:39:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 236.16 Mbit/s

95th percentile per-packet one-way delay: 50.937 ms

Loss rate: 0.32%

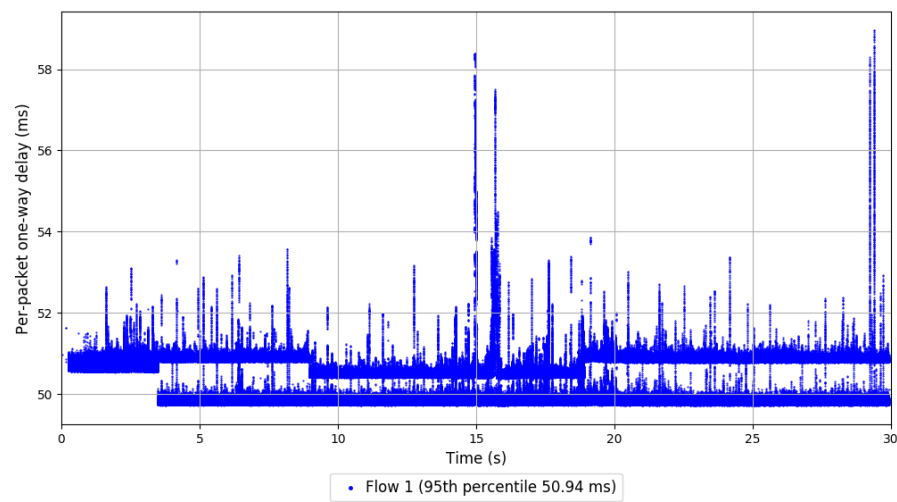
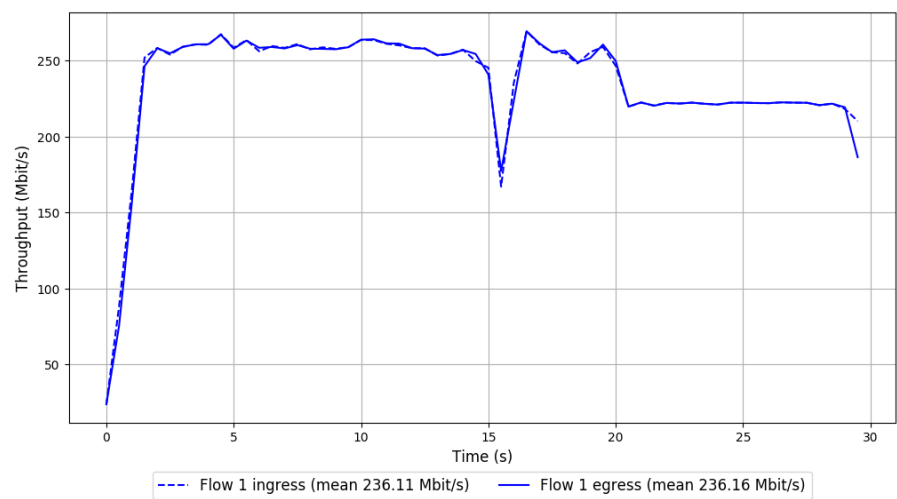
-- Flow 1:

Average throughput: 236.16 Mbit/s

95th percentile per-packet one-way delay: 50.937 ms

Loss rate: 0.32%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-13 04:35:37

End at: 2018-02-13 04:36:07

Below is generated by plot.py at 2018-02-13 08:39:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.16 Mbit/s

95th percentile per-packet one-way delay: 50.844 ms

Loss rate: 0.34%

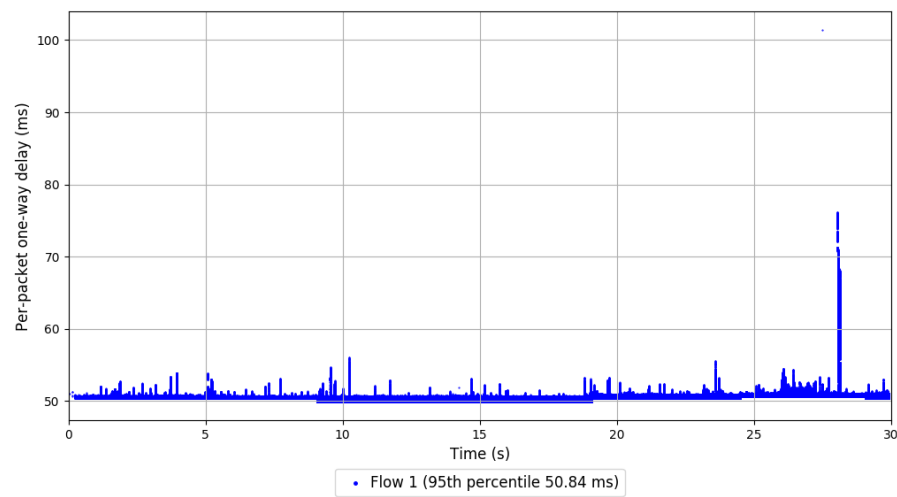
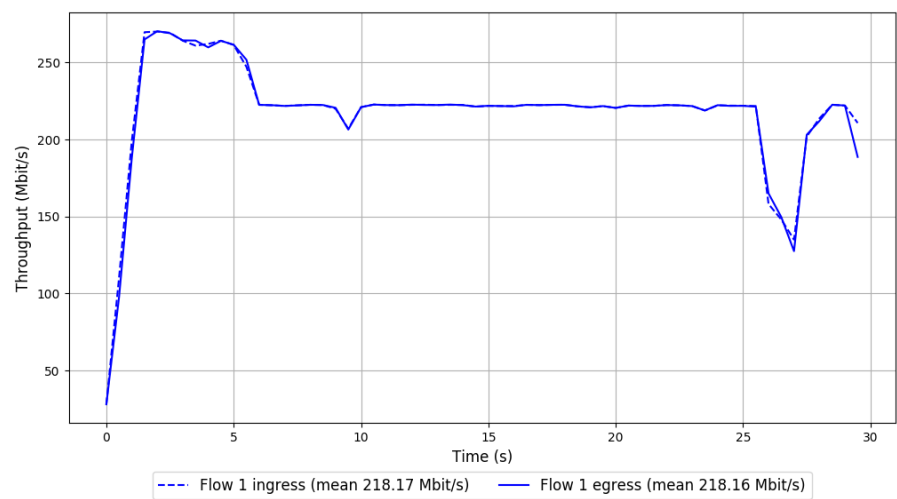
-- Flow 1:

Average throughput: 218.16 Mbit/s

95th percentile per-packet one-way delay: 50.844 ms

Loss rate: 0.34%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-13 04:50:23

End at: 2018-02-13 04:50:53

Below is generated by plot.py at 2018-02-13 08:45:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 251.29 Mbit/s

95th percentile per-packet one-way delay: 50.897 ms

Loss rate: 0.35%

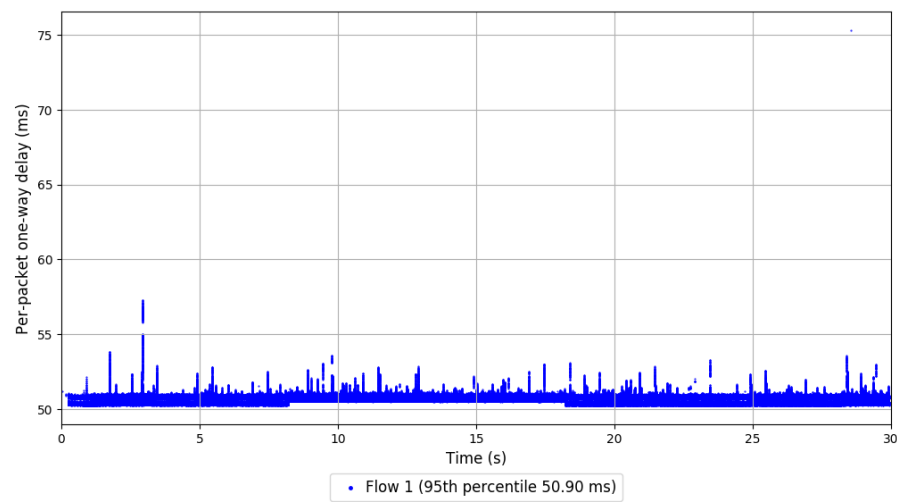
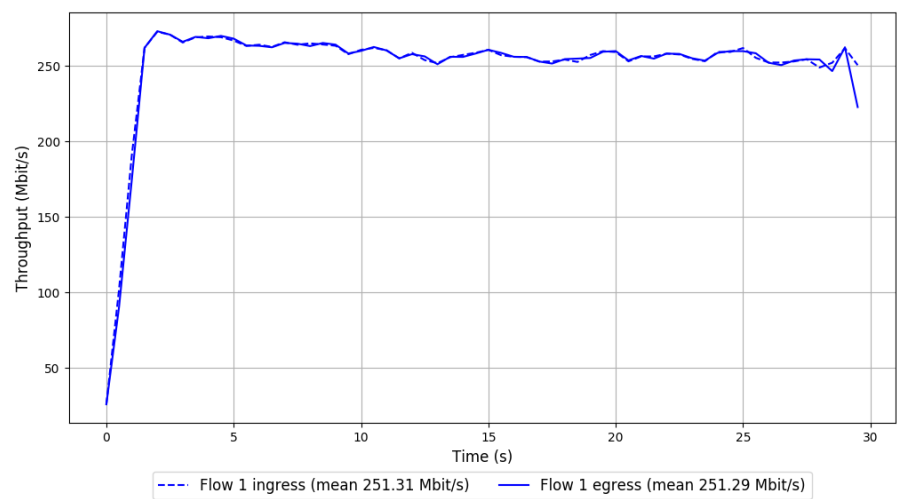
-- Flow 1:

Average throughput: 251.29 Mbit/s

95th percentile per-packet one-way delay: 50.897 ms

Loss rate: 0.35%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-13 05:05:09

End at: 2018-02-13 05:05:39

Below is generated by plot.py at 2018-02-13 08:45:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 242.13 Mbit/s

95th percentile per-packet one-way delay: 50.711 ms

Loss rate: 0.36%

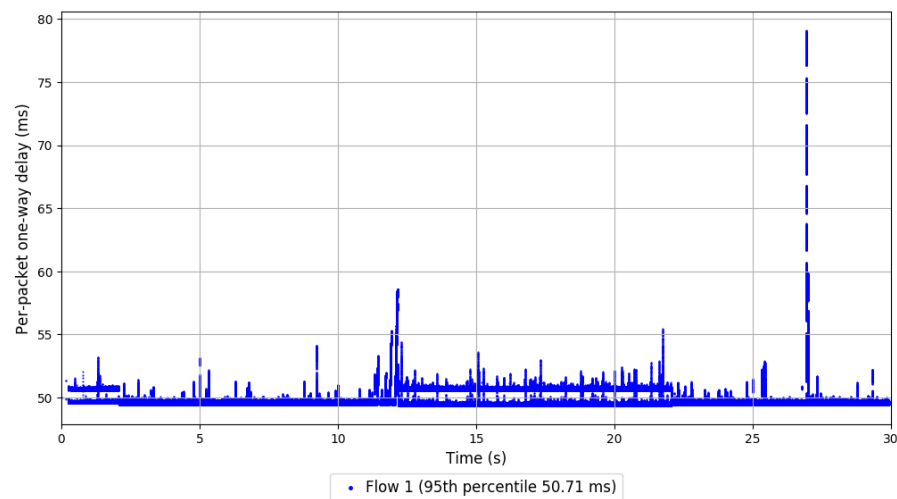
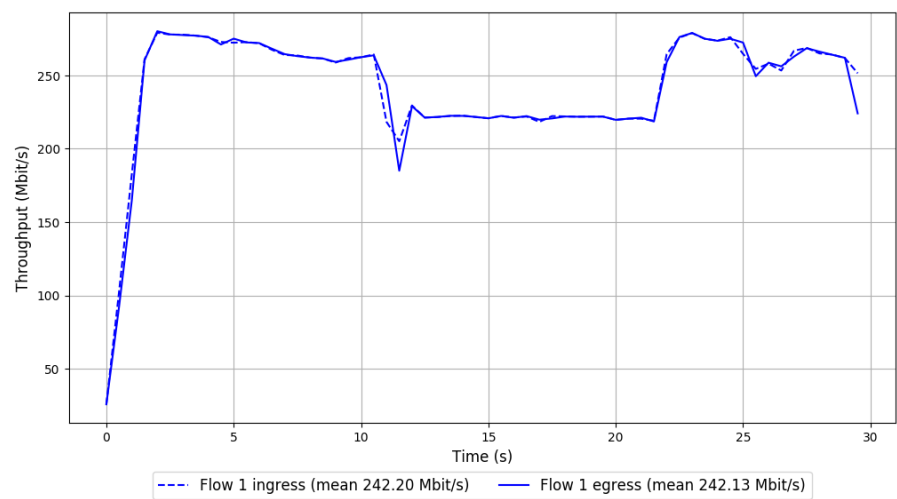
-- Flow 1:

Average throughput: 242.13 Mbit/s

95th percentile per-packet one-way delay: 50.711 ms

Loss rate: 0.36%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-13 05:19:56

End at: 2018-02-13 05:20:26

Below is generated by plot.py at 2018-02-13 08:46:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 252.22 Mbit/s

95th percentile per-packet one-way delay: 50.531 ms

Loss rate: 0.36%

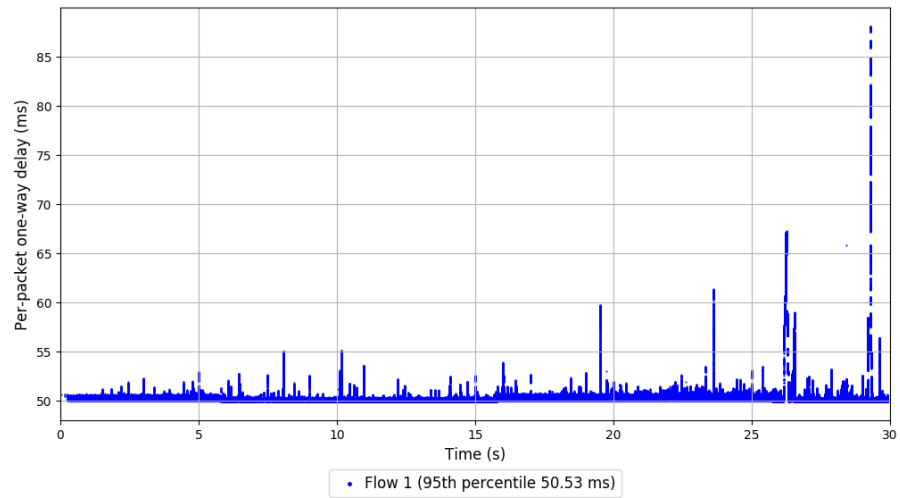
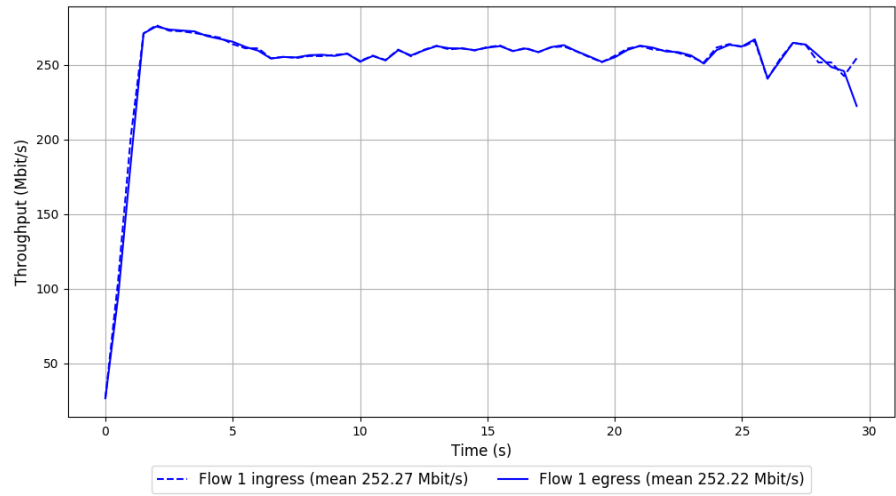
-- Flow 1:

Average throughput: 252.22 Mbit/s

95th percentile per-packet one-way delay: 50.531 ms

Loss rate: 0.36%

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

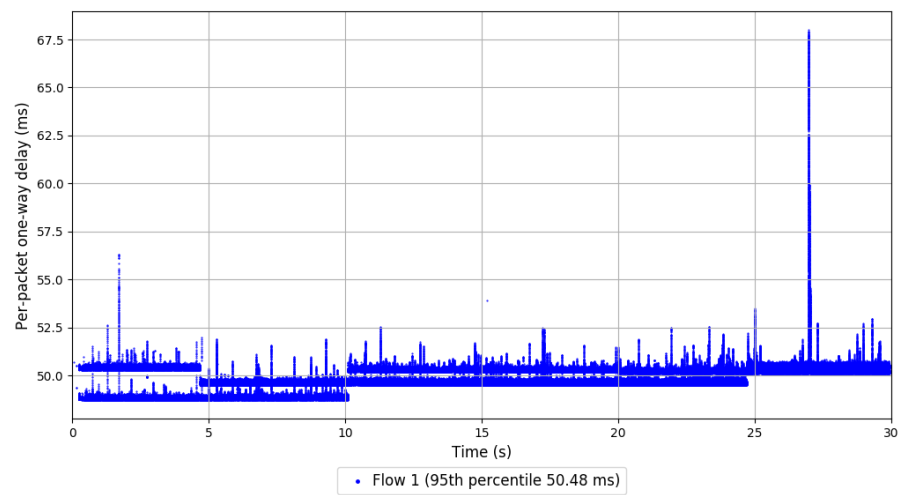
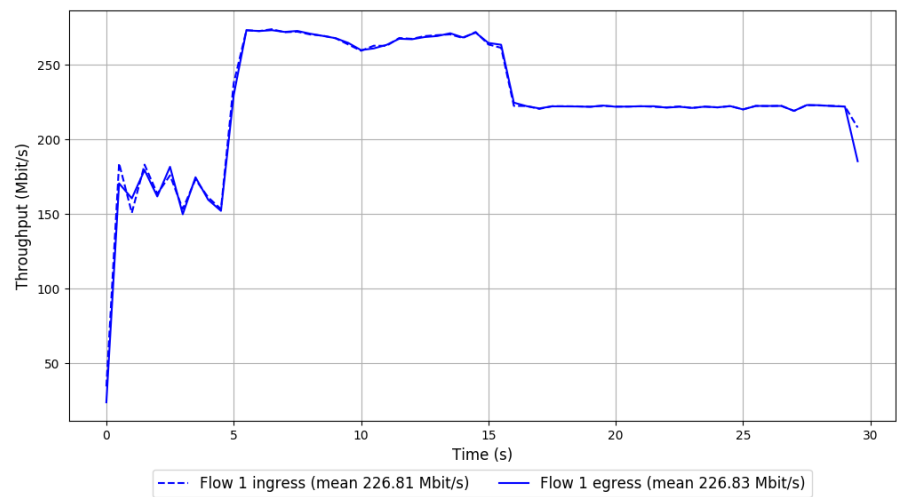


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-13 05:34:41
End at: 2018-02-13 05:35:12

# Below is generated by plot.py at 2018-02-13 08:46:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.83 Mbit/s
95th percentile per-packet one-way delay: 50.480 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 226.83 Mbit/s
95th percentile per-packet one-way delay: 50.480 ms
Loss rate: 0.33%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-13 03:07:32

End at: 2018-02-13 03:08:02

Below is generated by plot.py at 2018-02-13 08:46:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.04 Mbit/s

95th percentile per-packet one-way delay: 53.843 ms

Loss rate: 0.15%

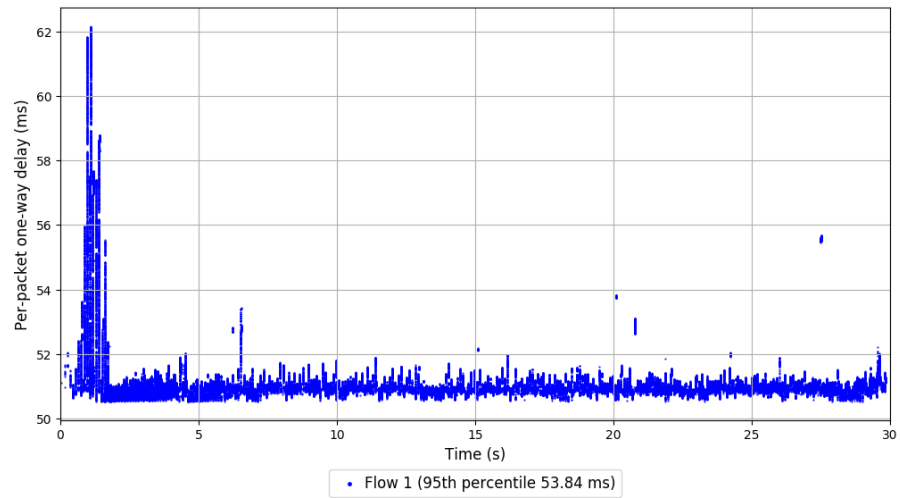
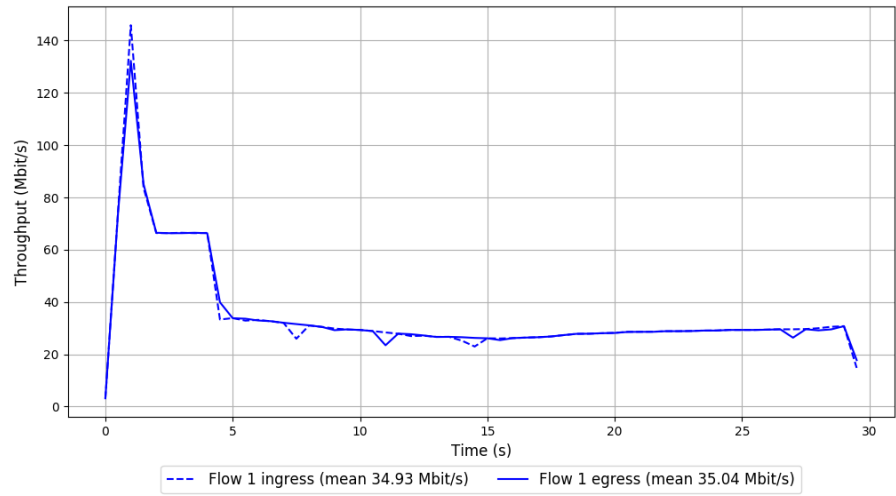
-- Flow 1:

Average throughput: 35.04 Mbit/s

95th percentile per-packet one-way delay: 53.843 ms

Loss rate: 0.15%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-13 03:22:22

End at: 2018-02-13 03:22:52

Below is generated by plot.py at 2018-02-13 08:46:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.07 Mbit/s

95th percentile per-packet one-way delay: 51.282 ms

Loss rate: 0.09%

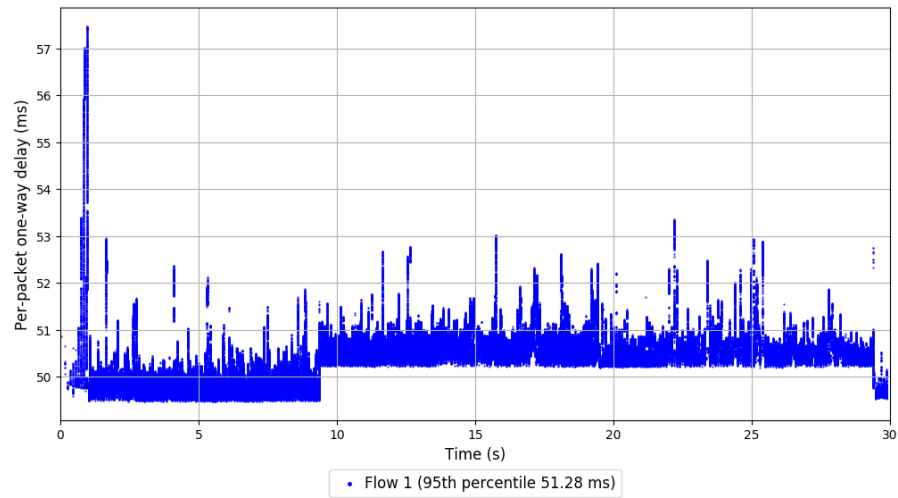
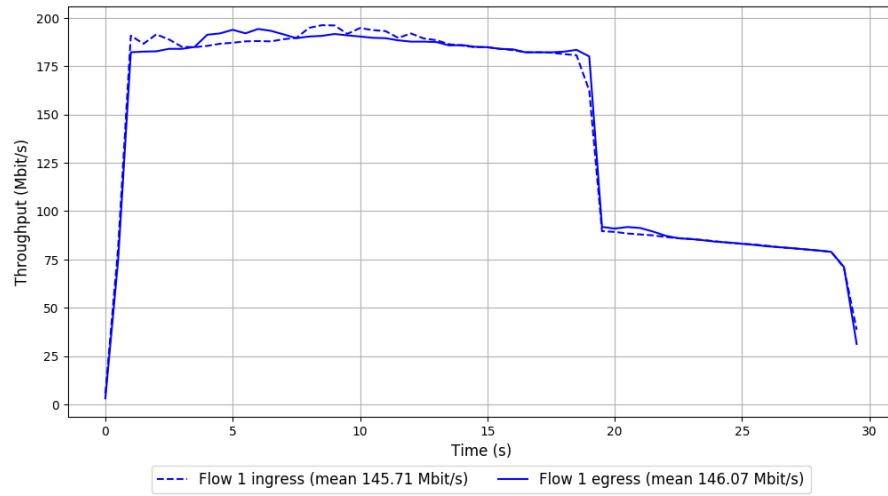
-- Flow 1:

Average throughput: 146.07 Mbit/s

95th percentile per-packet one-way delay: 51.282 ms

Loss rate: 0.09%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-13 03:37:12

End at: 2018-02-13 03:37:42

Below is generated by plot.py at 2018-02-13 08:46:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.49 Mbit/s

95th percentile per-packet one-way delay: 52.116 ms

Loss rate: 0.32%

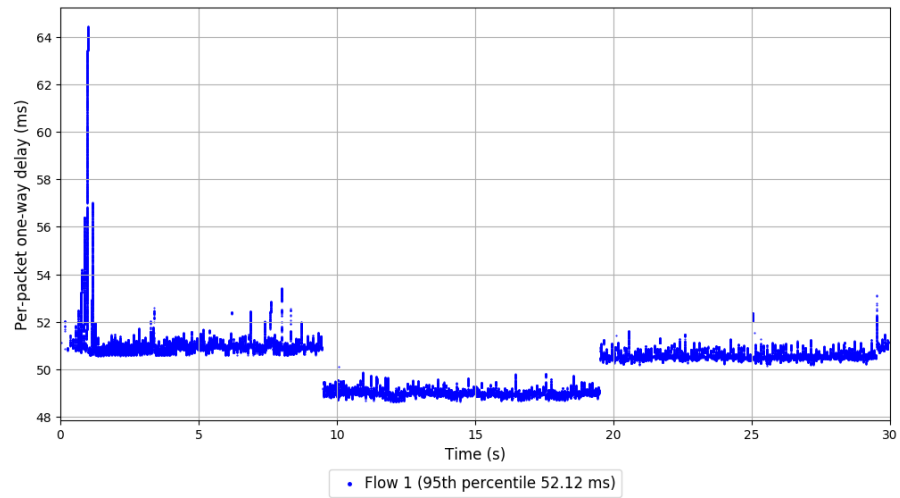
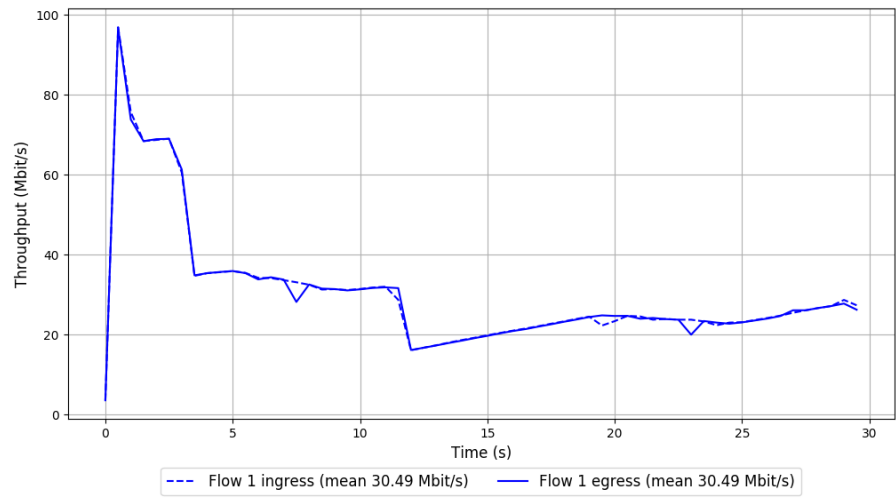
-- Flow 1:

Average throughput: 30.49 Mbit/s

95th percentile per-packet one-way delay: 52.116 ms

Loss rate: 0.32%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-13 03:51:58

End at: 2018-02-13 03:52:28

Below is generated by plot.py at 2018-02-13 08:46:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.18 Mbit/s

95th percentile per-packet one-way delay: 51.375 ms

Loss rate: 0.12%

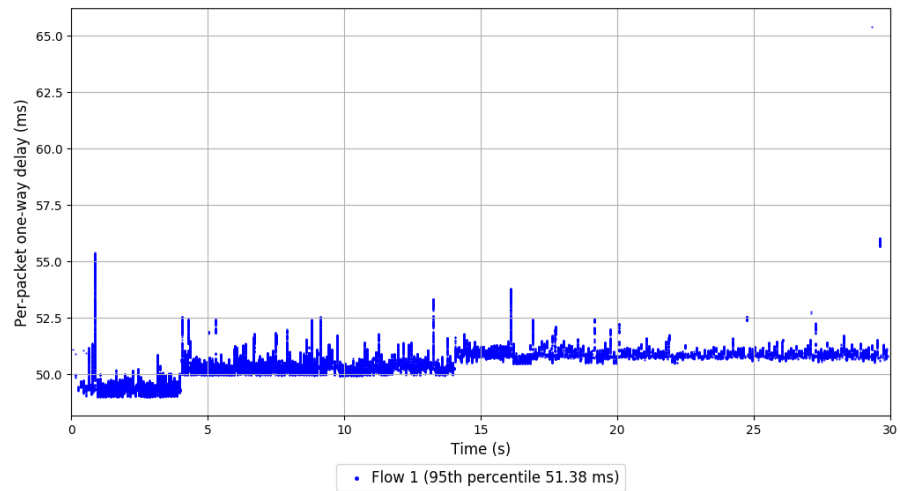
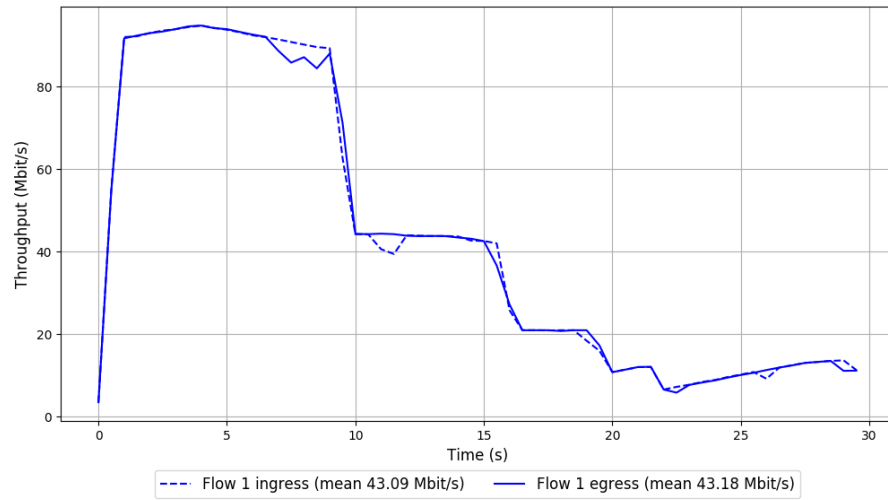
-- Flow 1:

Average throughput: 43.18 Mbit/s

95th percentile per-packet one-way delay: 51.375 ms

Loss rate: 0.12%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-13 04:06:41

End at: 2018-02-13 04:07:11

Below is generated by plot.py at 2018-02-13 08:46:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.36 Mbit/s

95th percentile per-packet one-way delay: 51.501 ms

Loss rate: 0.12%

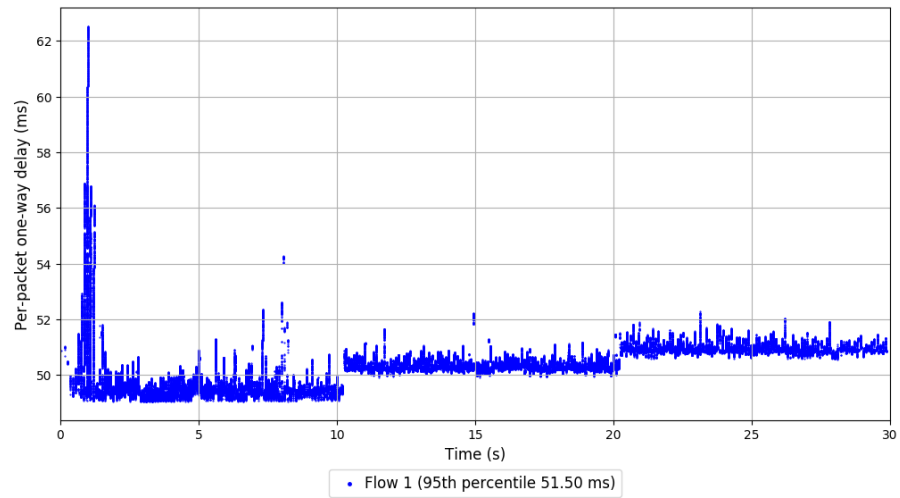
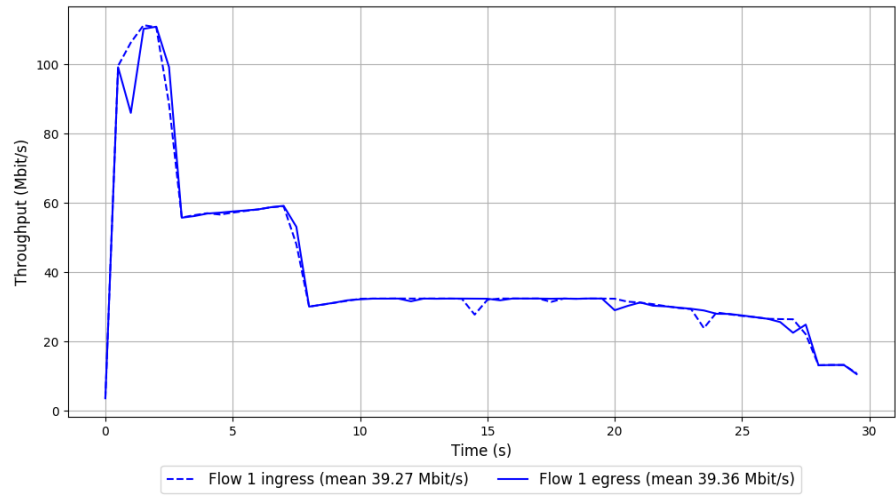
-- Flow 1:

Average throughput: 39.36 Mbit/s

95th percentile per-packet one-way delay: 51.501 ms

Loss rate: 0.12%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-13 04:21:29

End at: 2018-02-13 04:21:59

Below is generated by plot.py at 2018-02-13 08:46:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.76 Mbit/s

95th percentile per-packet one-way delay: 51.844 ms

Loss rate: 0.22%

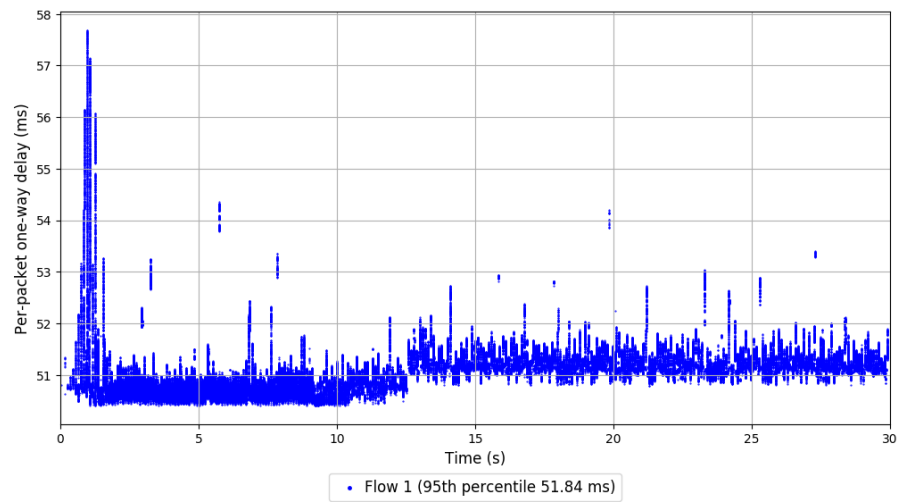
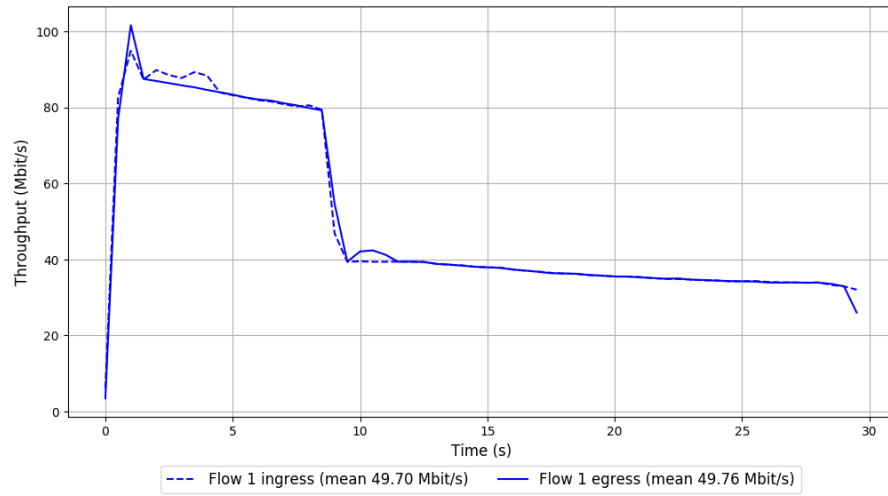
-- Flow 1:

Average throughput: 49.76 Mbit/s

95th percentile per-packet one-way delay: 51.844 ms

Loss rate: 0.22%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-13 04:36:32

End at: 2018-02-13 04:37:02

Below is generated by plot.py at 2018-02-13 08:46:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.97 Mbit/s

95th percentile per-packet one-way delay: 52.247 ms

Loss rate: 0.38%

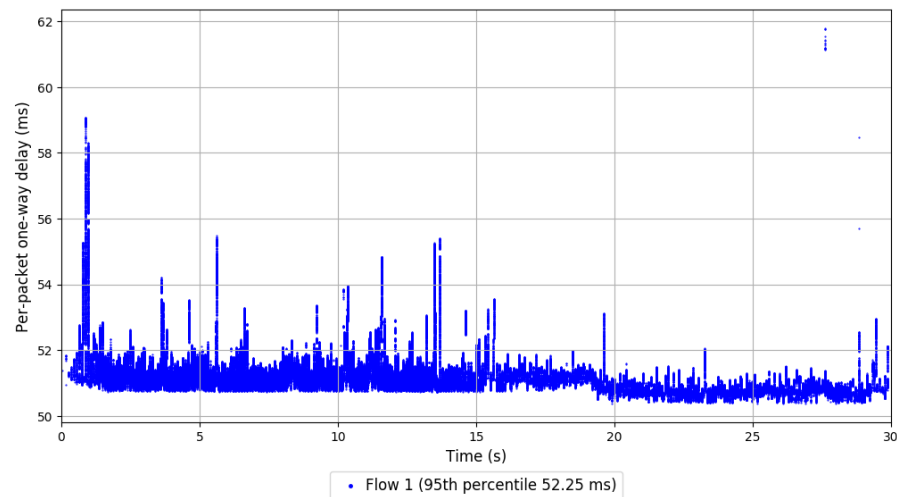
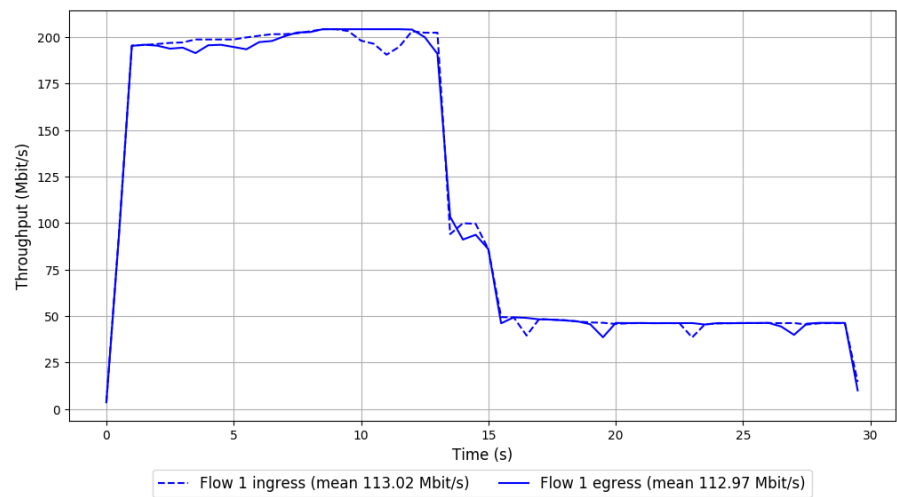
-- Flow 1:

Average throughput: 112.97 Mbit/s

95th percentile per-packet one-way delay: 52.247 ms

Loss rate: 0.38%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-13 04:51:21

End at: 2018-02-13 04:51:51

Below is generated by plot.py at 2018-02-13 08:46:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.51 Mbit/s

95th percentile per-packet one-way delay: 51.771 ms

Loss rate: 0.36%

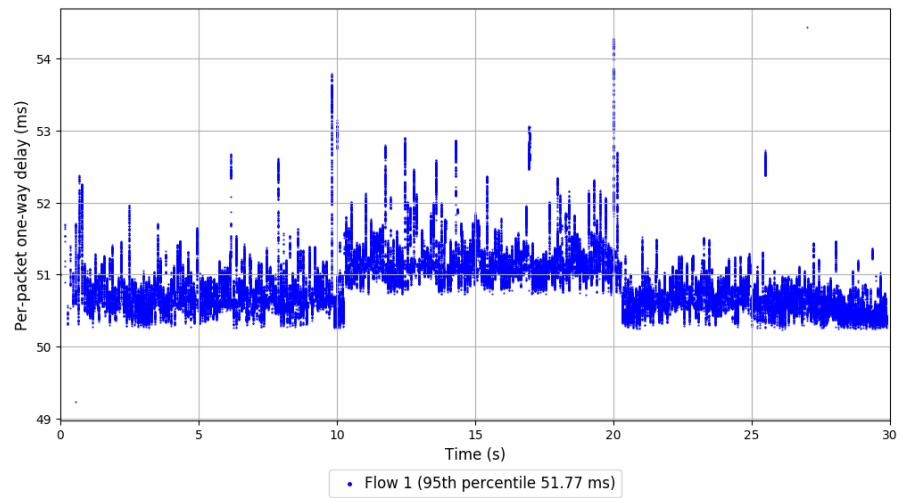
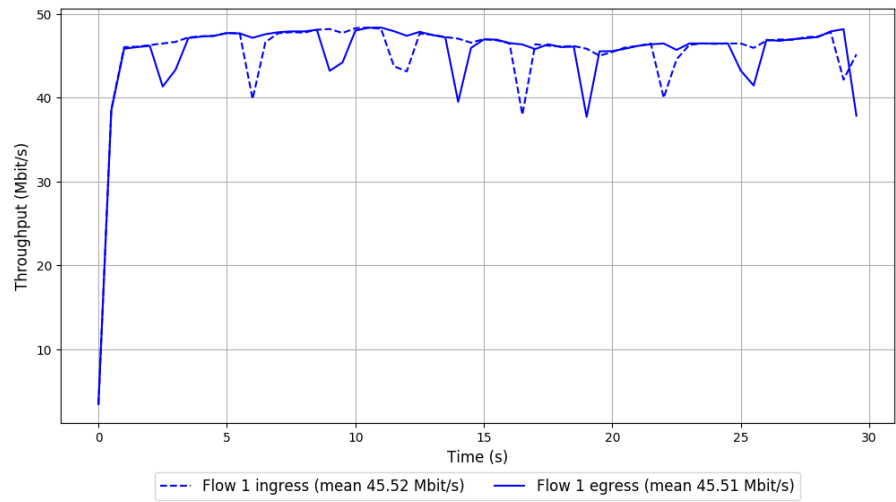
-- Flow 1:

Average throughput: 45.51 Mbit/s

95th percentile per-packet one-way delay: 51.771 ms

Loss rate: 0.36%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-13 05:06:06

End at: 2018-02-13 05:06:37

Below is generated by plot.py at 2018-02-13 08:46:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.44 Mbit/s

95th percentile per-packet one-way delay: 51.372 ms

Loss rate: 0.34%

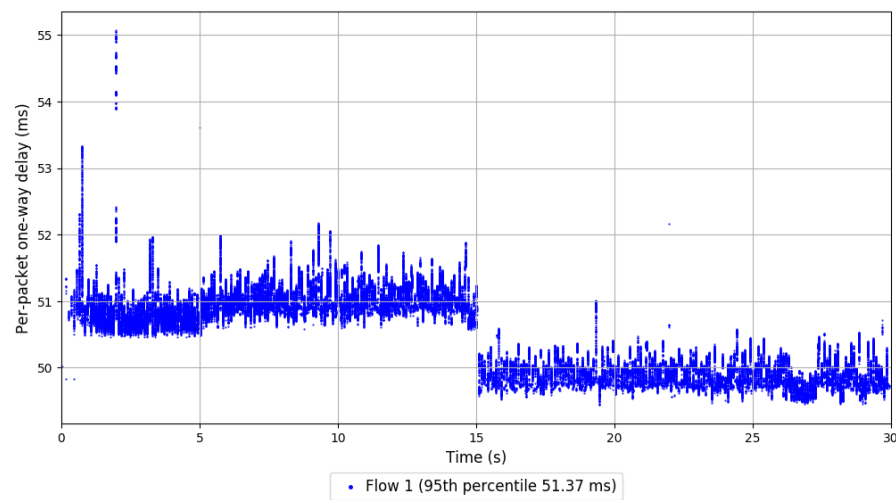
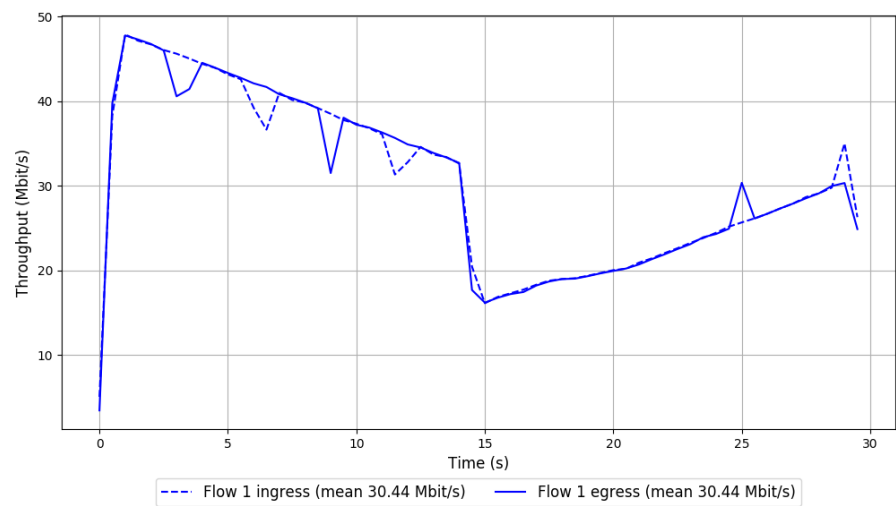
-- Flow 1:

Average throughput: 30.44 Mbit/s

95th percentile per-packet one-way delay: 51.372 ms

Loss rate: 0.34%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-13 05:20:54

End at: 2018-02-13 05:21:24

Below is generated by plot.py at 2018-02-13 08:46:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.93 Mbit/s

95th percentile per-packet one-way delay: 51.352 ms

Loss rate: 0.12%

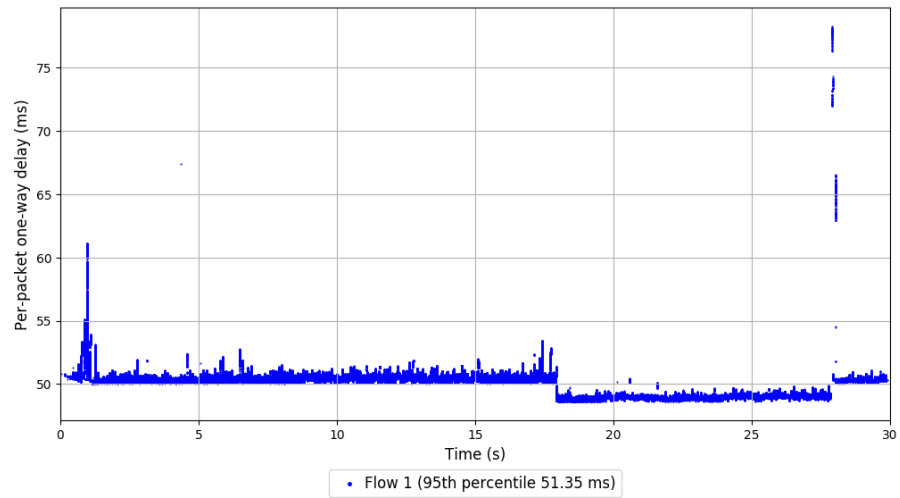
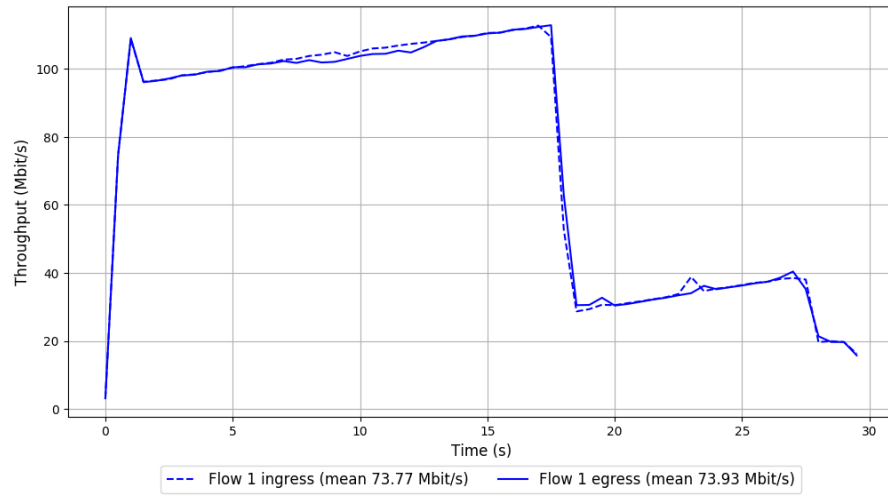
-- Flow 1:

Average throughput: 73.93 Mbit/s

95th percentile per-packet one-way delay: 51.352 ms

Loss rate: 0.12%

Run 10: Report of TCP Vegas — Data Link

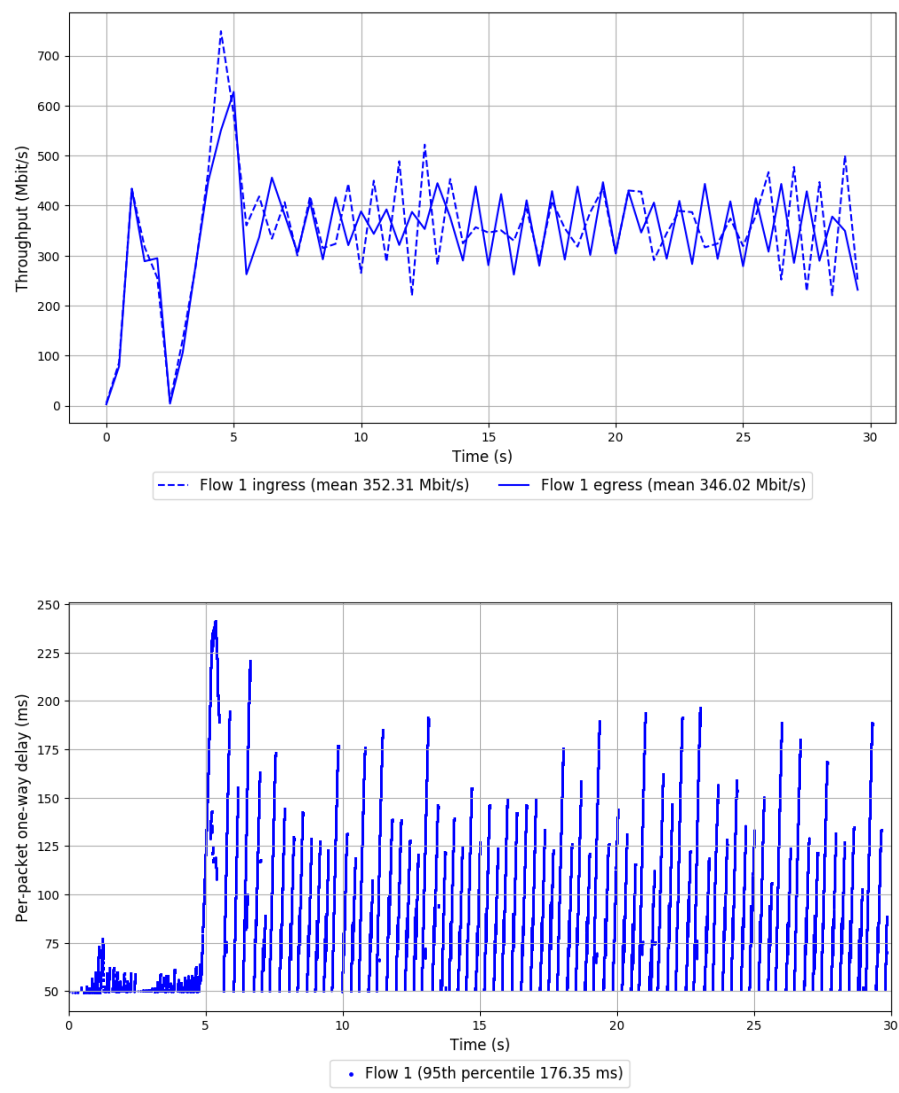


```
Run 1: Statistics of Verus

Start at: 2018-02-13 03:11:20
End at: 2018-02-13 03:11:50

# Below is generated by plot.py at 2018-02-13 08:46:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 346.02 Mbit/s
95th percentile per-packet one-way delay: 176.354 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 346.02 Mbit/s
95th percentile per-packet one-way delay: 176.354 ms
Loss rate: 1.95%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-13 03:26:18

End at: 2018-02-13 03:26:48

Below is generated by plot.py at 2018-02-13 08:46:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 295.87 Mbit/s

95th percentile per-packet one-way delay: 92.328 ms

Loss rate: 0.54%

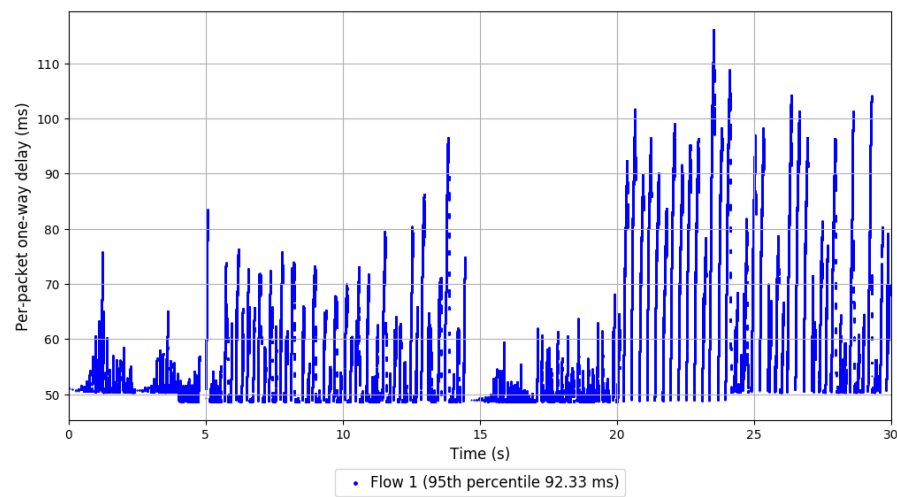
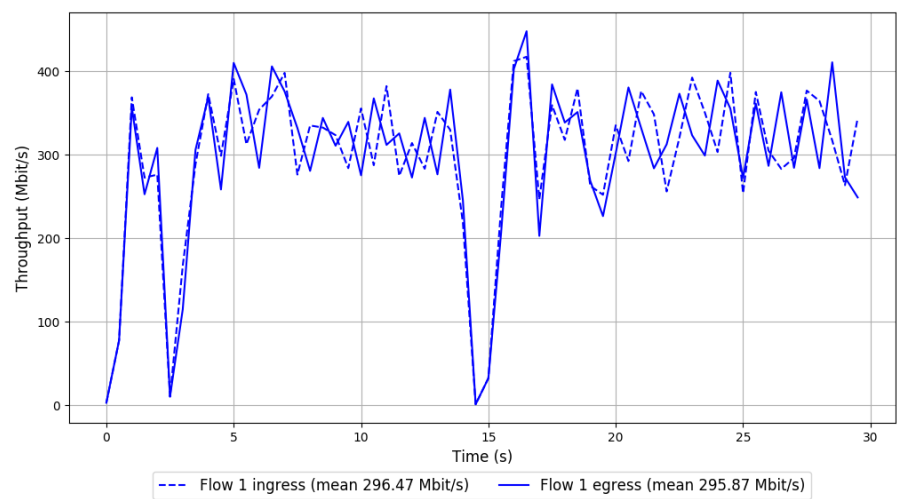
-- Flow 1:

Average throughput: 295.87 Mbit/s

95th percentile per-packet one-way delay: 92.328 ms

Loss rate: 0.54%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-13 03:41:04

End at: 2018-02-13 03:41:34

Below is generated by plot.py at 2018-02-13 08:46:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.47 Mbit/s

95th percentile per-packet one-way delay: 98.707 ms

Loss rate: 0.89%

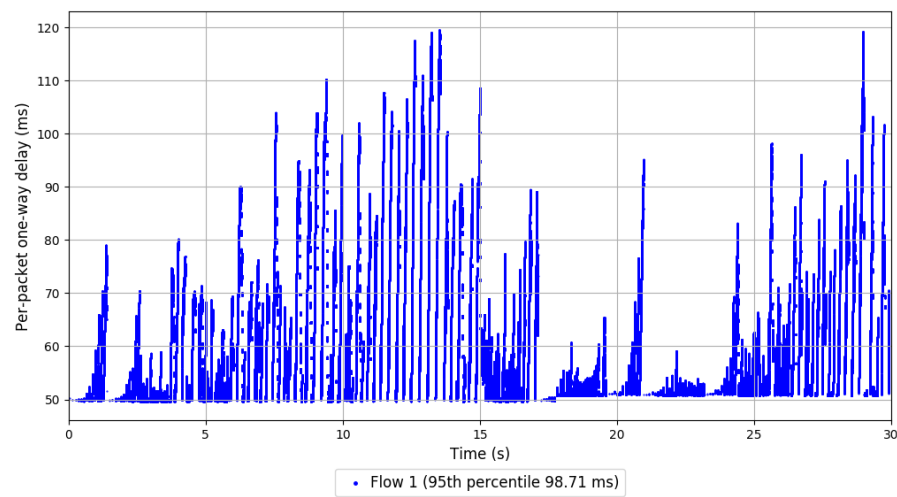
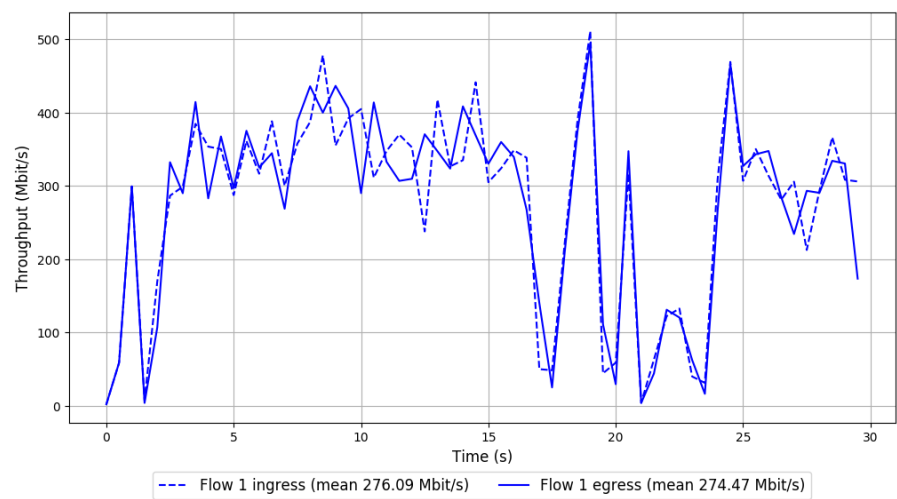
-- Flow 1:

Average throughput: 274.47 Mbit/s

95th percentile per-packet one-way delay: 98.707 ms

Loss rate: 0.89%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-13 03:55:50

End at: 2018-02-13 03:56:20

Below is generated by plot.py at 2018-02-13 08:47:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 317.75 Mbit/s

95th percentile per-packet one-way delay: 128.075 ms

Loss rate: 0.25%

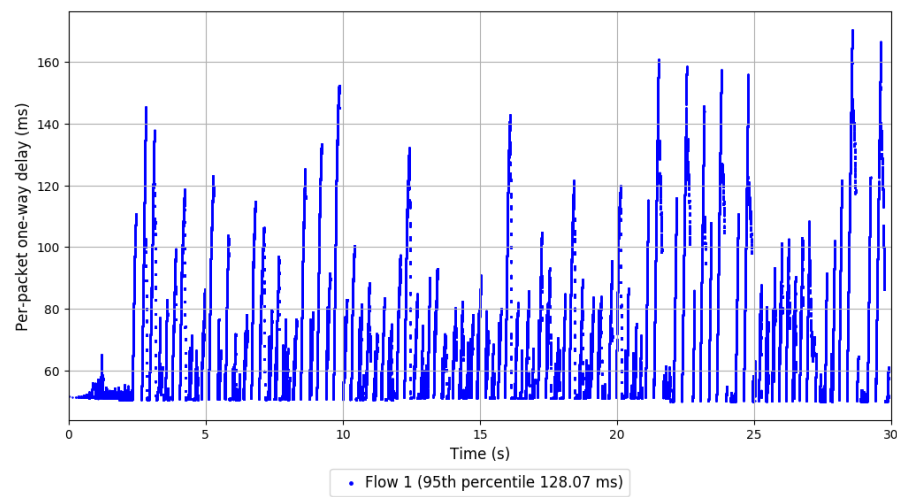
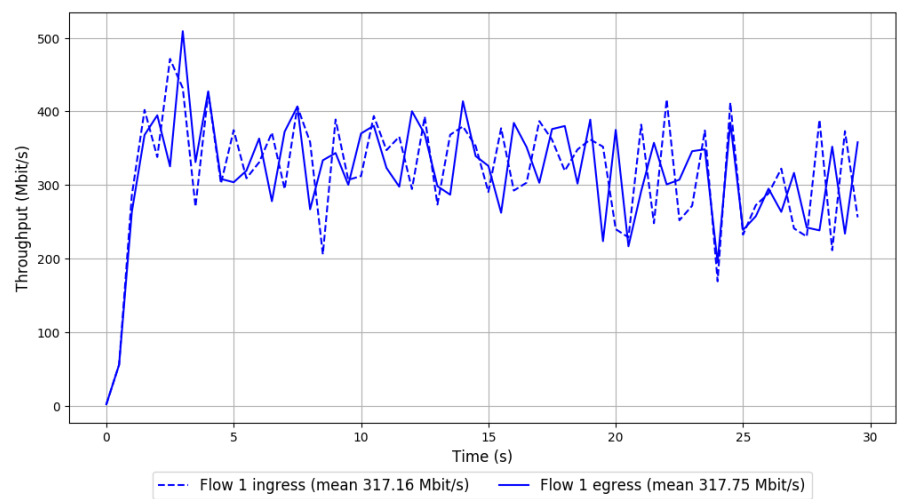
-- Flow 1:

Average throughput: 317.75 Mbit/s

95th percentile per-packet one-way delay: 128.075 ms

Loss rate: 0.25%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-13 04:10:32

End at: 2018-02-13 04:11:02

Below is generated by plot.py at 2018-02-13 08:50:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 340.14 Mbit/s

95th percentile per-packet one-way delay: 160.746 ms

Loss rate: 0.25%

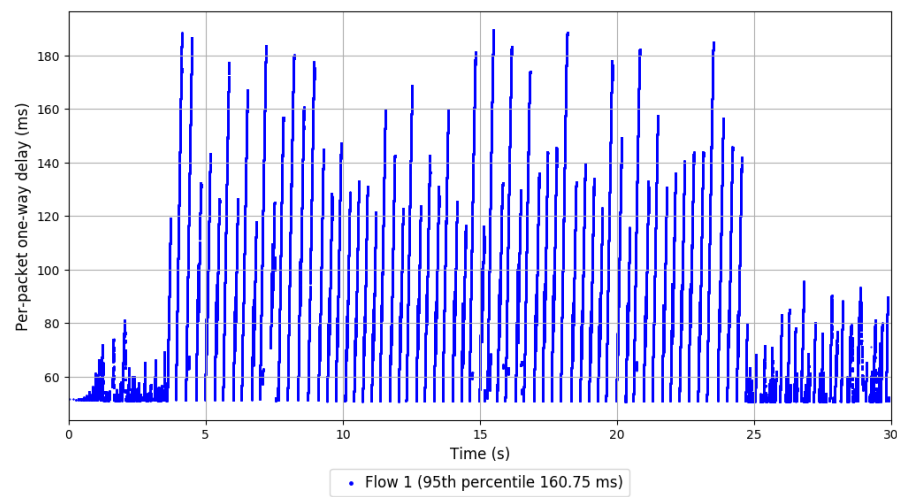
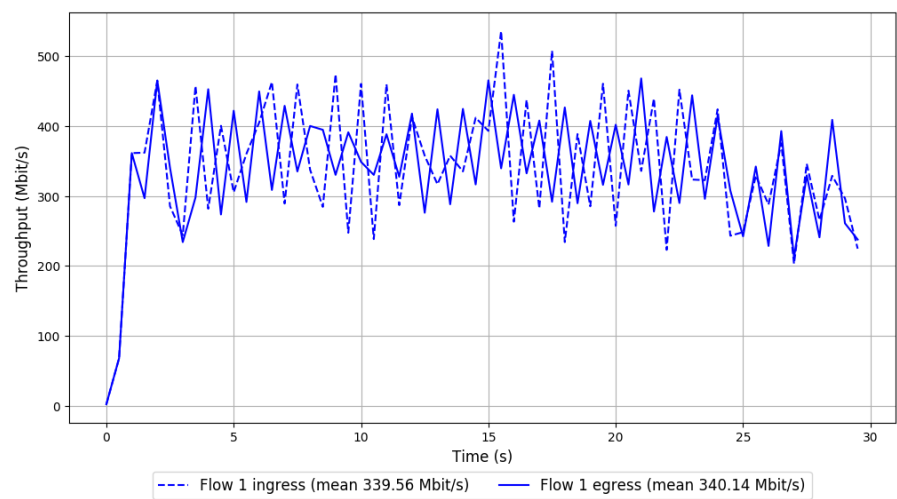
-- Flow 1:

Average throughput: 340.14 Mbit/s

95th percentile per-packet one-way delay: 160.746 ms

Loss rate: 0.25%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-13 04:25:21

End at: 2018-02-13 04:25:51

Below is generated by plot.py at 2018-02-13 08:50:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 298.26 Mbit/s

95th percentile per-packet one-way delay: 95.546 ms

Loss rate: 0.70%

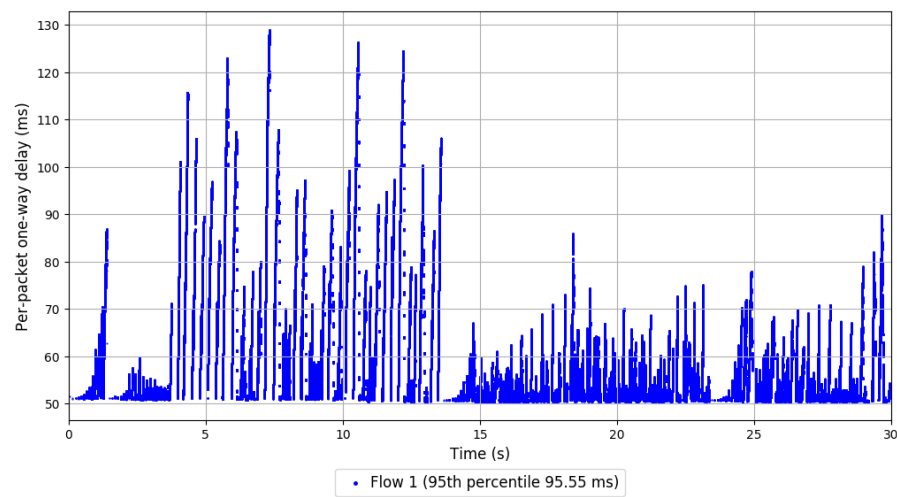
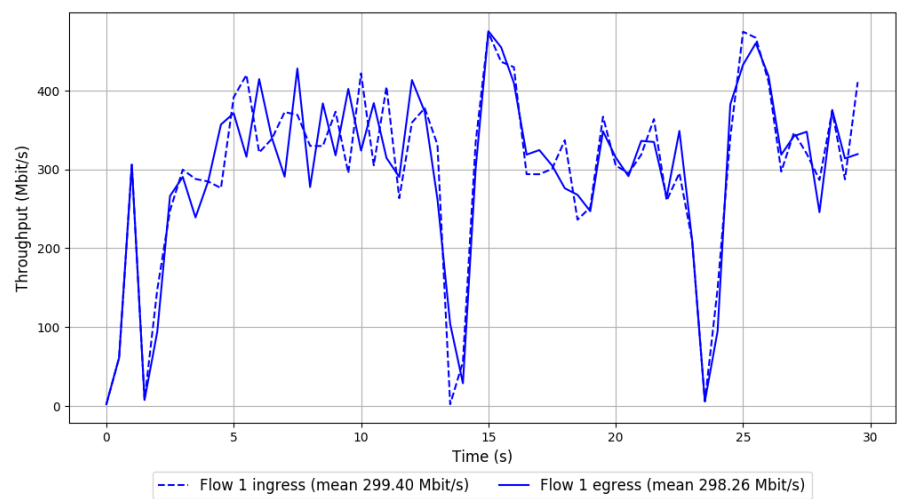
-- Flow 1:

Average throughput: 298.26 Mbit/s

95th percentile per-packet one-way delay: 95.546 ms

Loss rate: 0.70%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-13 04:40:25

End at: 2018-02-13 04:40:55

Below is generated by plot.py at 2018-02-13 08:50:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 284.53 Mbit/s

95th percentile per-packet one-way delay: 67.965 ms

Loss rate: 0.50%

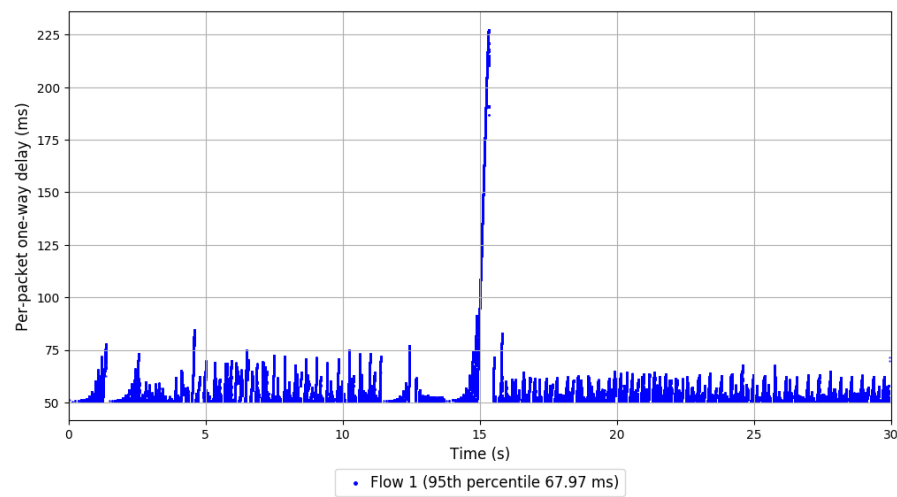
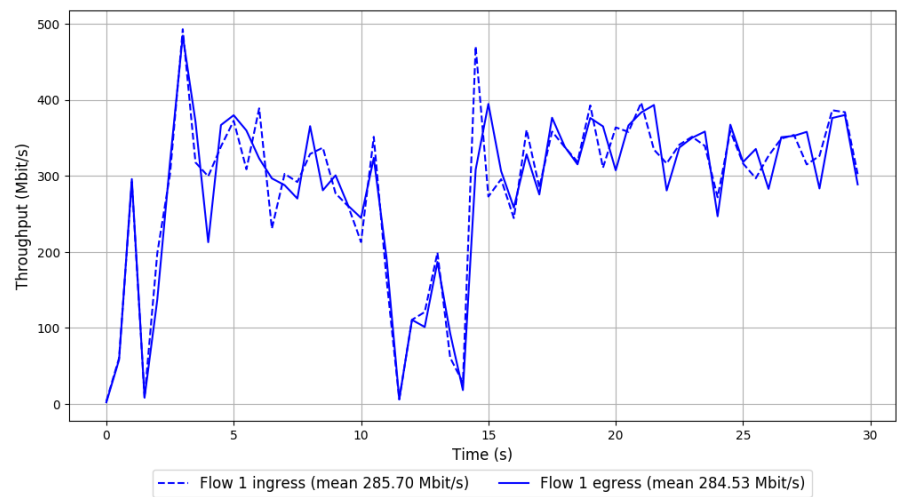
-- Flow 1:

Average throughput: 284.53 Mbit/s

95th percentile per-packet one-way delay: 67.965 ms

Loss rate: 0.50%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-13 04:55:13

End at: 2018-02-13 04:55:43

Below is generated by plot.py at 2018-02-13 08:50:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 270.87 Mbit/s

95th percentile per-packet one-way delay: 152.365 ms

Loss rate: 0.77%

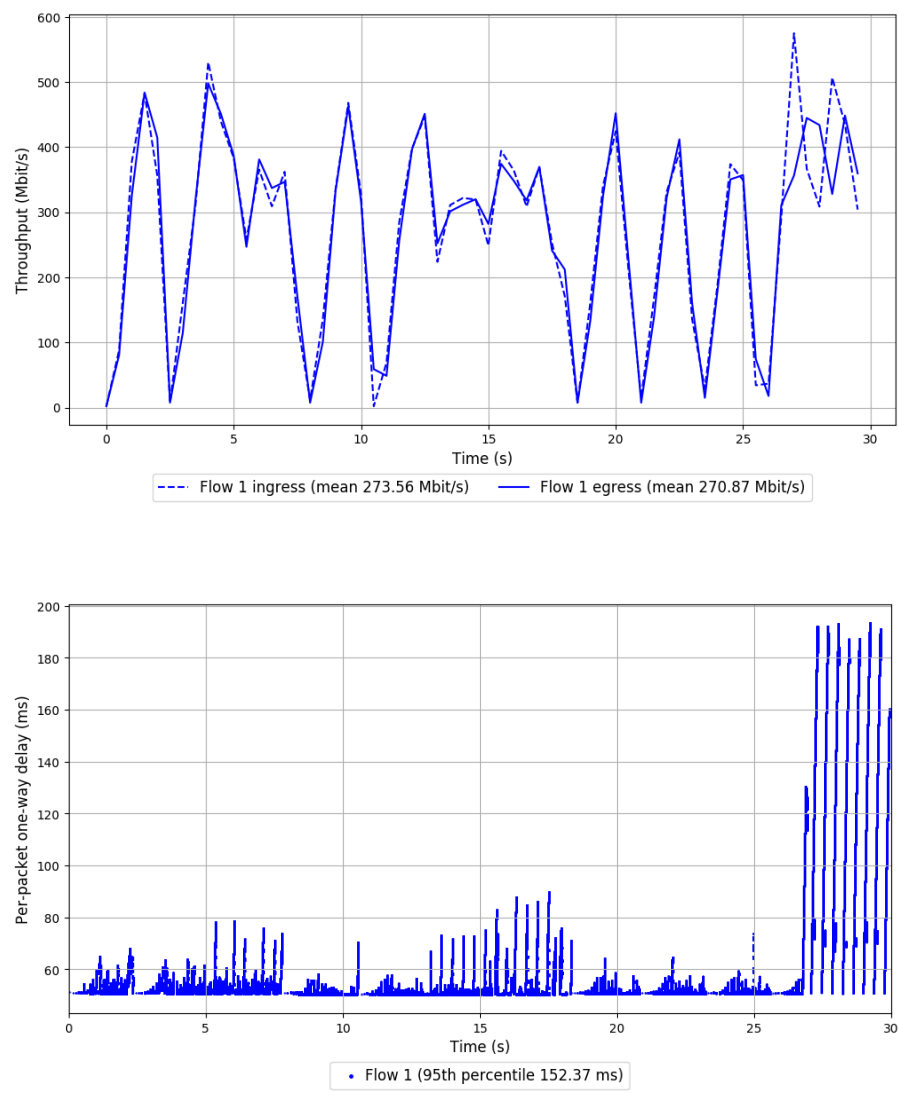
-- Flow 1:

Average throughput: 270.87 Mbit/s

95th percentile per-packet one-way delay: 152.365 ms

Loss rate: 0.77%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-13 05:09:56

End at: 2018-02-13 05:10:26

Below is generated by plot.py at 2018-02-13 08:50:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 243.24 Mbit/s

95th percentile per-packet one-way delay: 110.604 ms

Loss rate: 0.38%

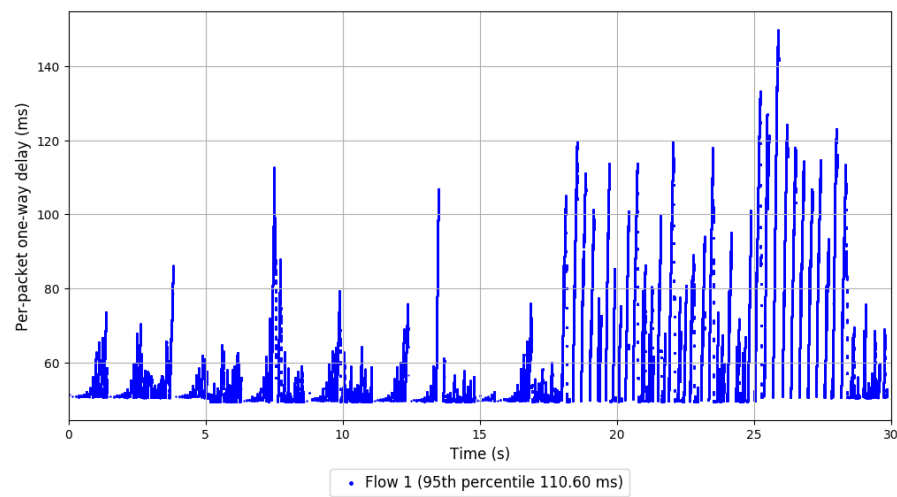
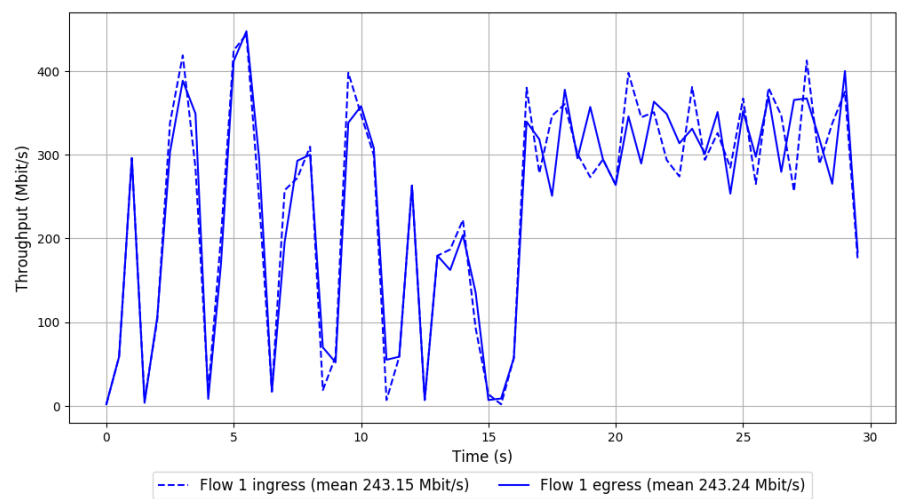
-- Flow 1:

Average throughput: 243.24 Mbit/s

95th percentile per-packet one-way delay: 110.604 ms

Loss rate: 0.38%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-13 05:24:46

End at: 2018-02-13 05:25:16

Below is generated by plot.py at 2018-02-13 08:50:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 280.18 Mbit/s

95th percentile per-packet one-way delay: 68.610 ms

Loss rate: 0.65%

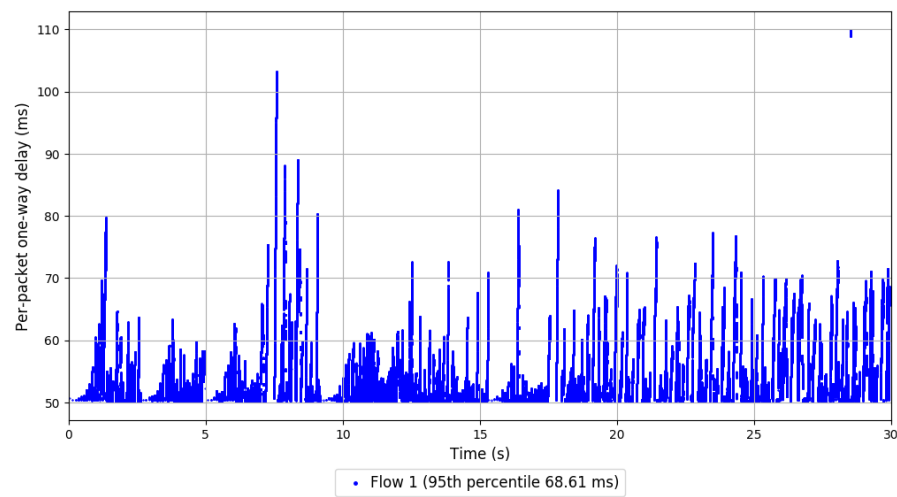
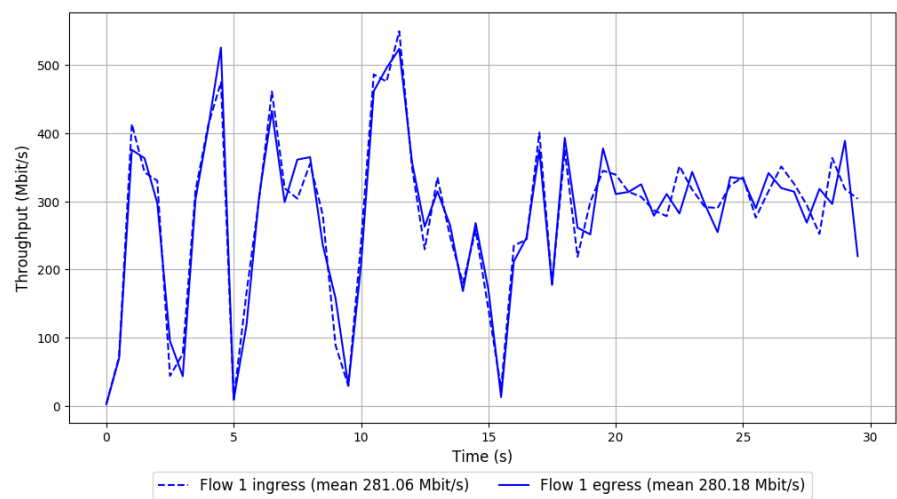
-- Flow 1:

Average throughput: 280.18 Mbit/s

95th percentile per-packet one-way delay: 68.610 ms

Loss rate: 0.65%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-13 03:17:15

End at: 2018-02-13 03:17:45

Below is generated by plot.py at 2018-02-13 08:50:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.29 Mbit/s

95th percentile per-packet one-way delay: 50.464 ms

Loss rate: 0.23%

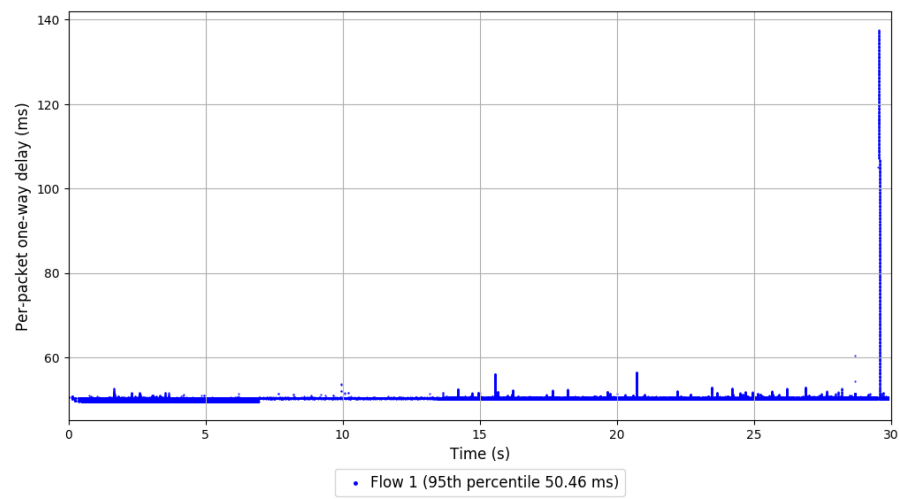
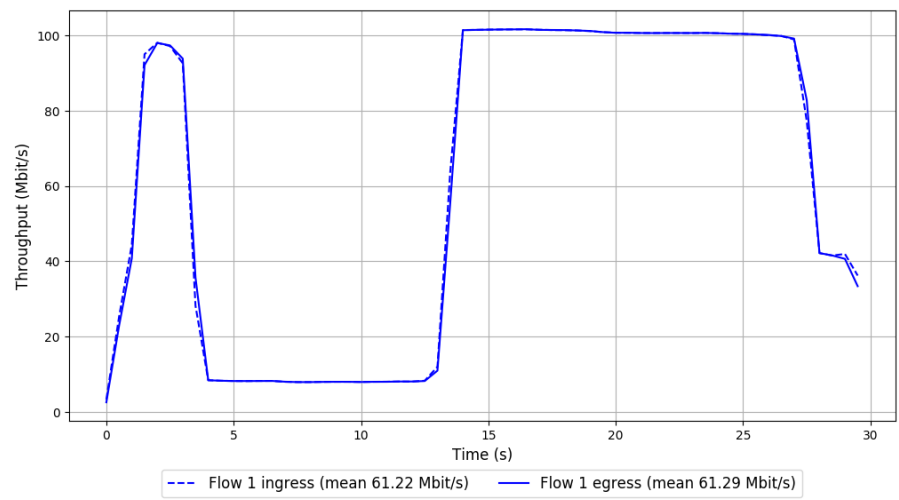
-- Flow 1:

Average throughput: 61.29 Mbit/s

95th percentile per-packet one-way delay: 50.464 ms

Loss rate: 0.23%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-13 03:32:02

End at: 2018-02-13 03:32:32

Below is generated by plot.py at 2018-02-13 08:50:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.40 Mbit/s

95th percentile per-packet one-way delay: 50.537 ms

Loss rate: 0.32%

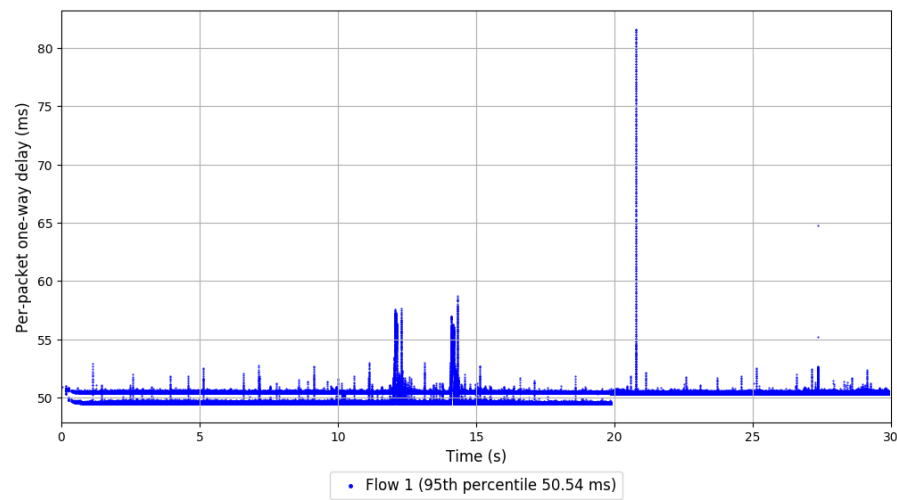
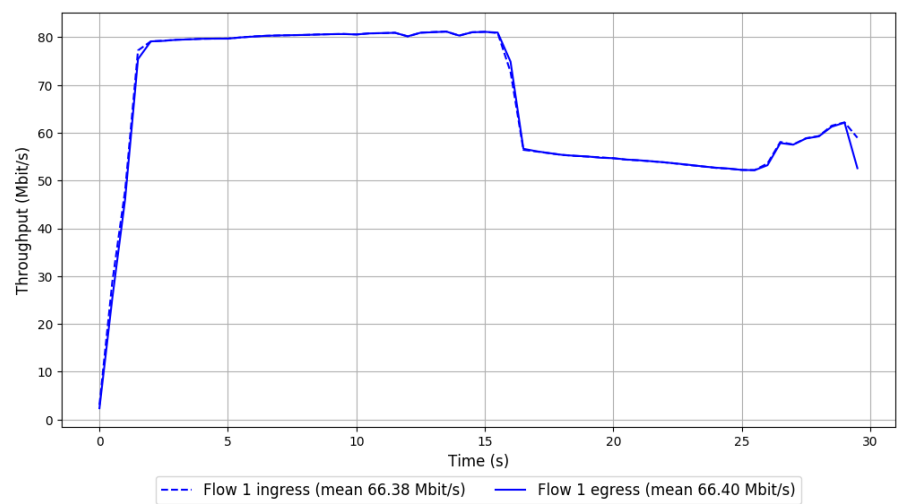
-- Flow 1:

Average throughput: 66.40 Mbit/s

95th percentile per-packet one-way delay: 50.537 ms

Loss rate: 0.32%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-13 03:46:50

End at: 2018-02-13 03:47:20

Below is generated by plot.py at 2018-02-13 08:50:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.07 Mbit/s

95th percentile per-packet one-way delay: 50.902 ms

Loss rate: 0.13%

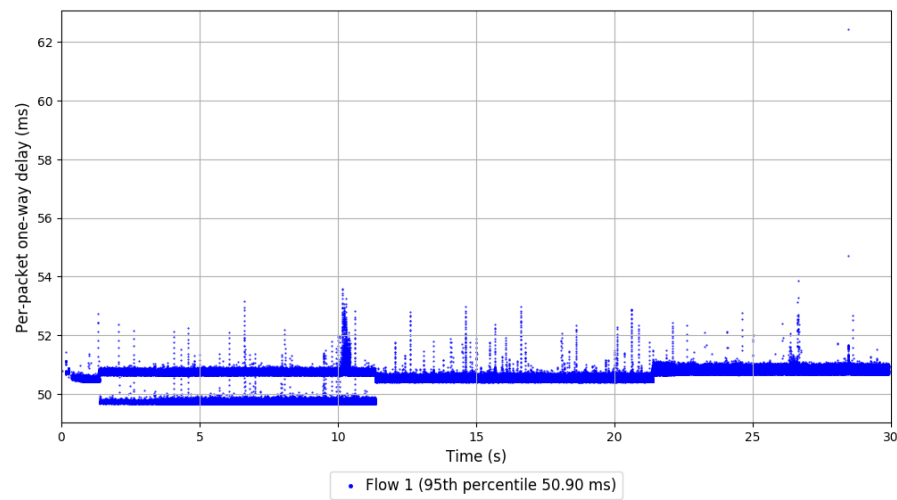
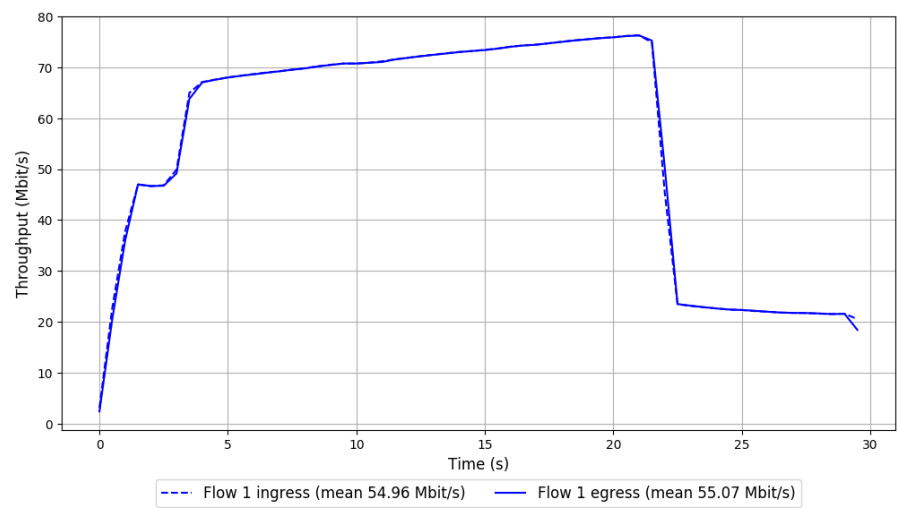
-- Flow 1:

Average throughput: 55.07 Mbit/s

95th percentile per-packet one-way delay: 50.902 ms

Loss rate: 0.13%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-13 04:01:38

End at: 2018-02-13 04:02:08

Below is generated by plot.py at 2018-02-13 08:50:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.66 Mbit/s

95th percentile per-packet one-way delay: 50.748 ms

Loss rate: 0.10%

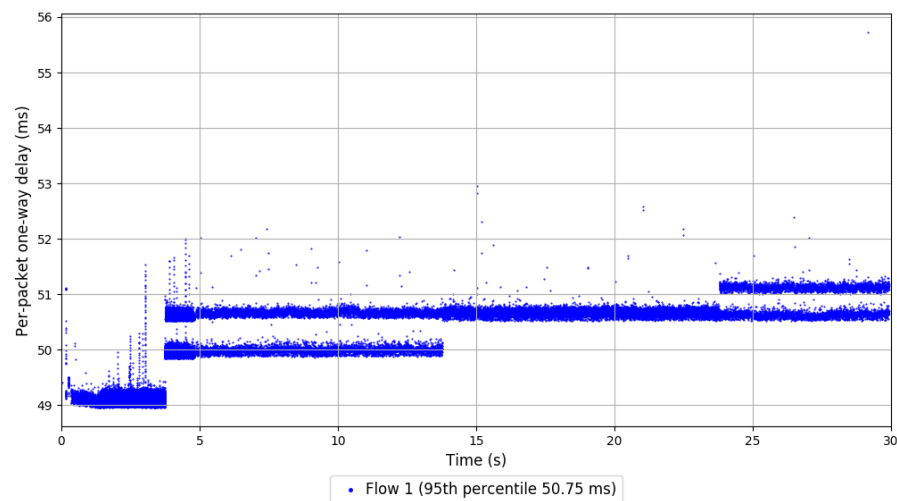
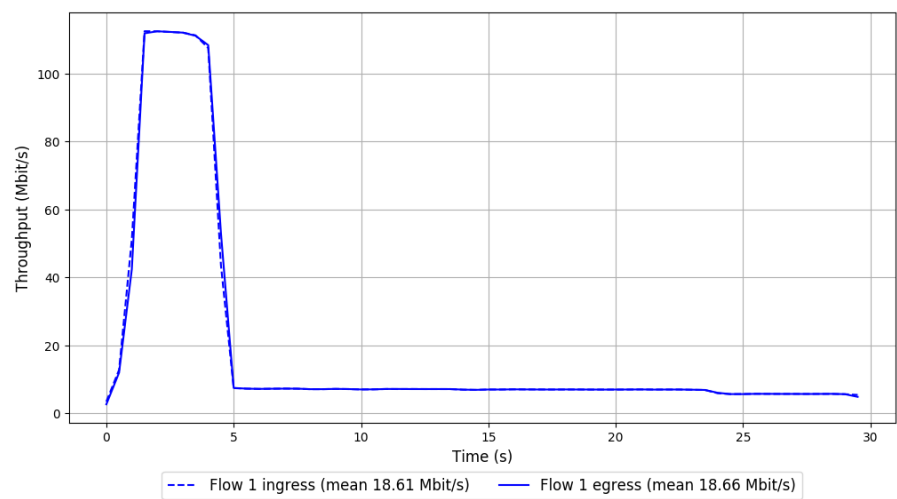
-- Flow 1:

Average throughput: 18.66 Mbit/s

95th percentile per-packet one-way delay: 50.748 ms

Loss rate: 0.10%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-13 04:16:21

End at: 2018-02-13 04:16:51

Below is generated by plot.py at 2018-02-13 08:51:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.53 Mbit/s

95th percentile per-packet one-way delay: 50.983 ms

Loss rate: 0.19%

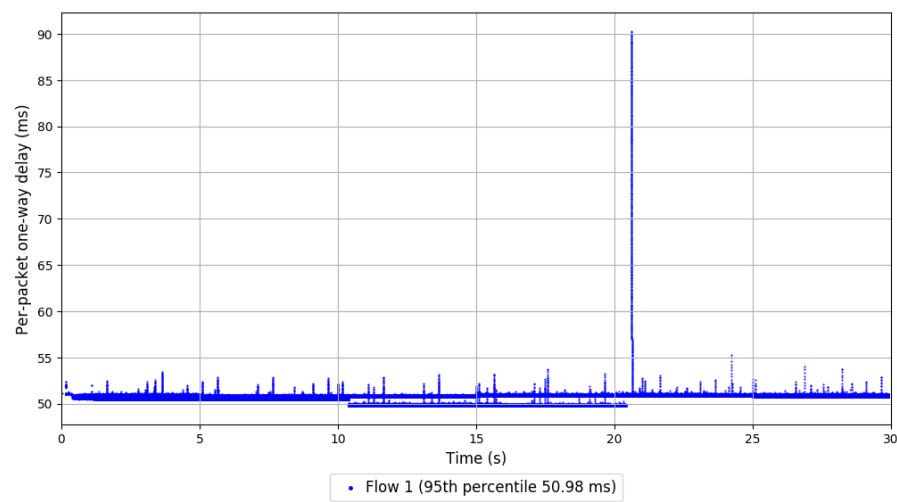
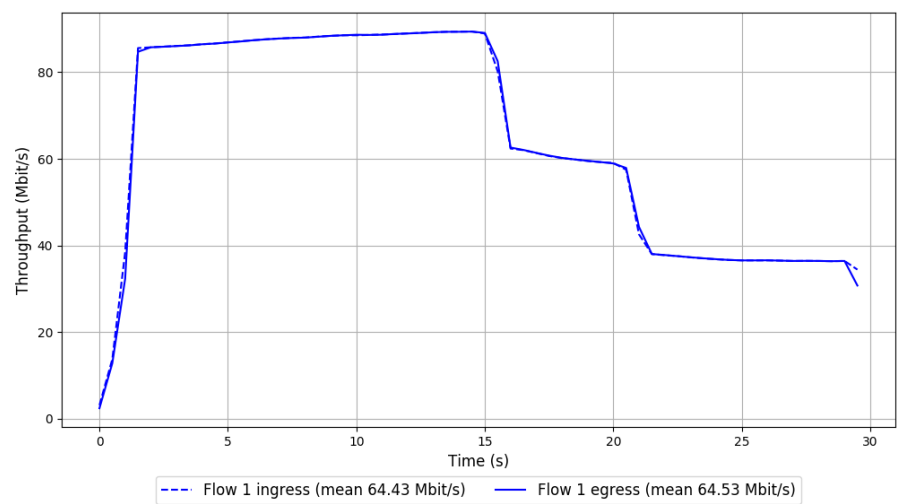
-- Flow 1:

Average throughput: 64.53 Mbit/s

95th percentile per-packet one-way delay: 50.983 ms

Loss rate: 0.19%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-13 04:31:19

End at: 2018-02-13 04:31:49

Below is generated by plot.py at 2018-02-13 08:52:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.02 Mbit/s

95th percentile per-packet one-way delay: 50.951 ms

Loss rate: 0.23%

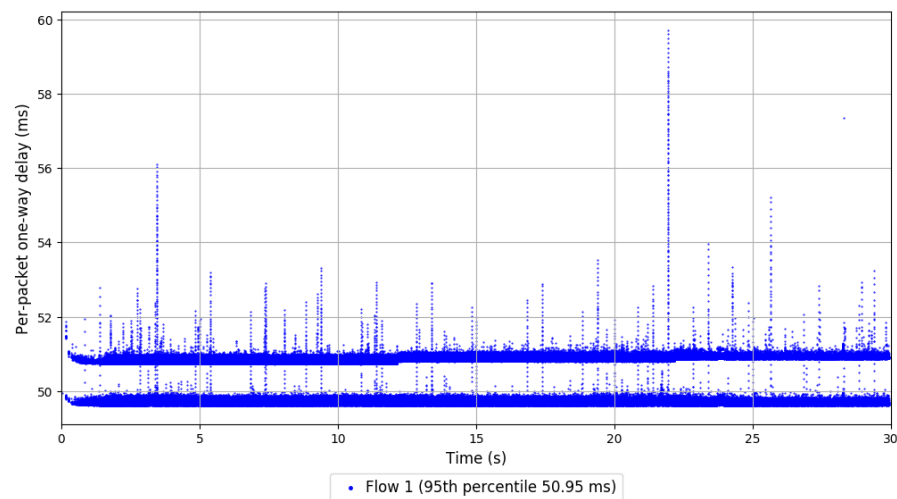
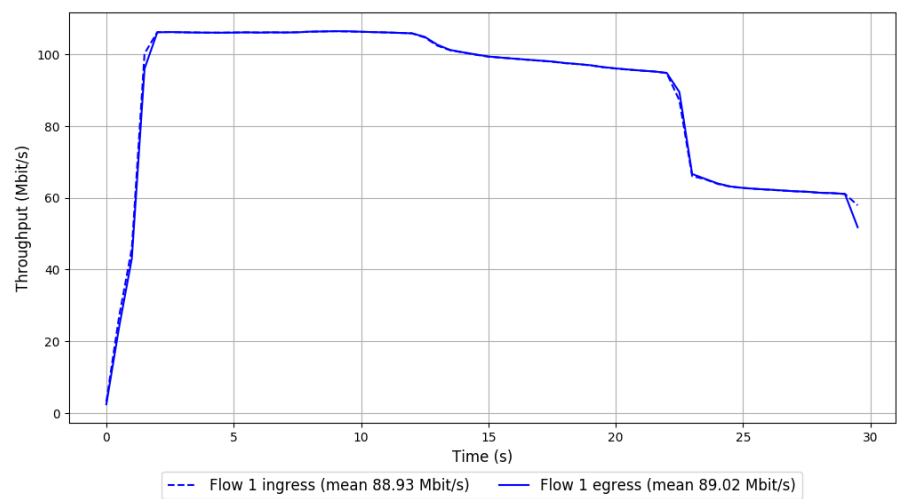
-- Flow 1:

Average throughput: 89.02 Mbit/s

95th percentile per-packet one-way delay: 50.951 ms

Loss rate: 0.23%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-13 04:46:13

End at: 2018-02-13 04:46:43

Below is generated by plot.py at 2018-02-13 08:52:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.41 Mbit/s

95th percentile per-packet one-way delay: 50.904 ms

Loss rate: 0.73%

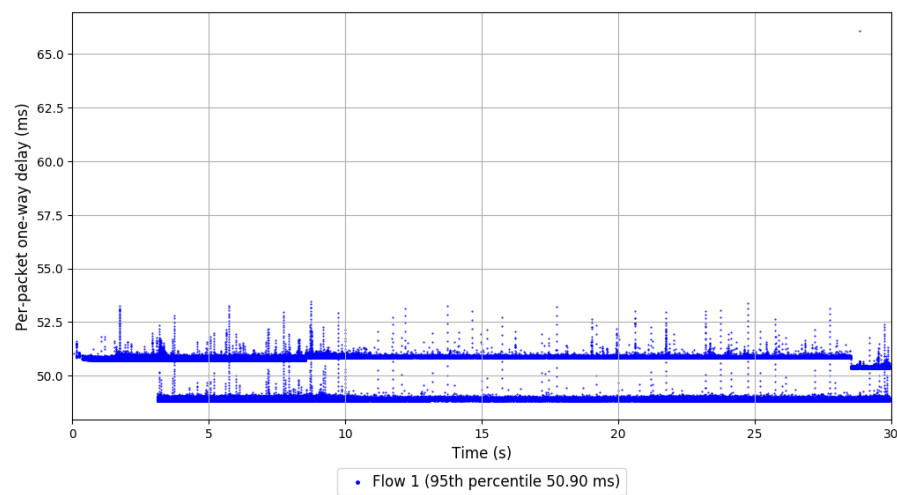
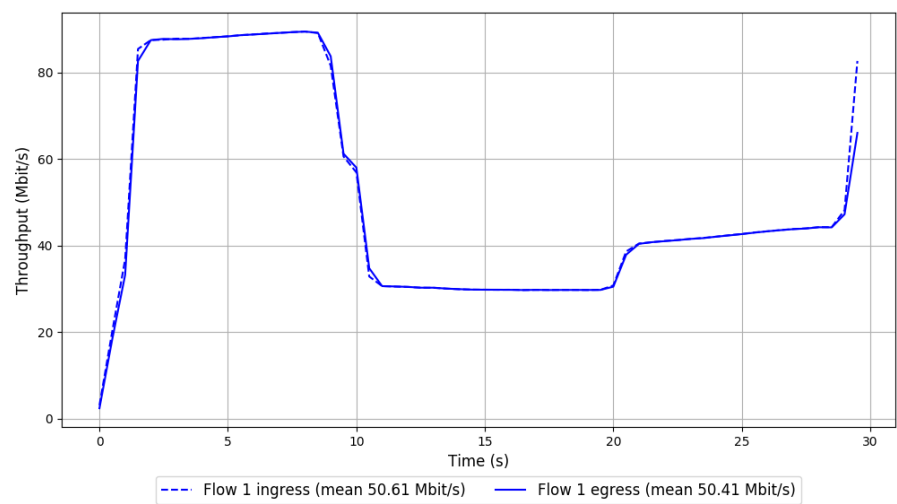
-- Flow 1:

Average throughput: 50.41 Mbit/s

95th percentile per-packet one-way delay: 50.904 ms

Loss rate: 0.73%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-13 05:00:56

End at: 2018-02-13 05:01:26

Below is generated by plot.py at 2018-02-13 08:52:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.10 Mbit/s

95th percentile per-packet one-way delay: 50.555 ms

Loss rate: 0.03%

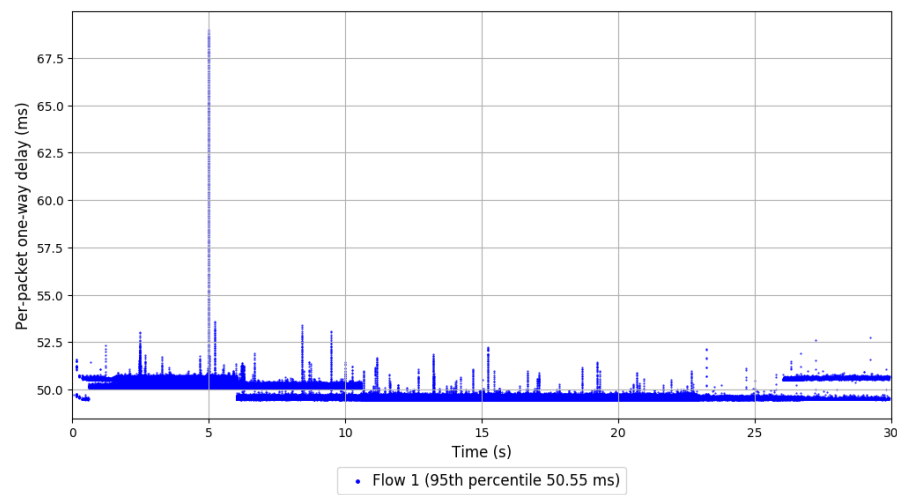
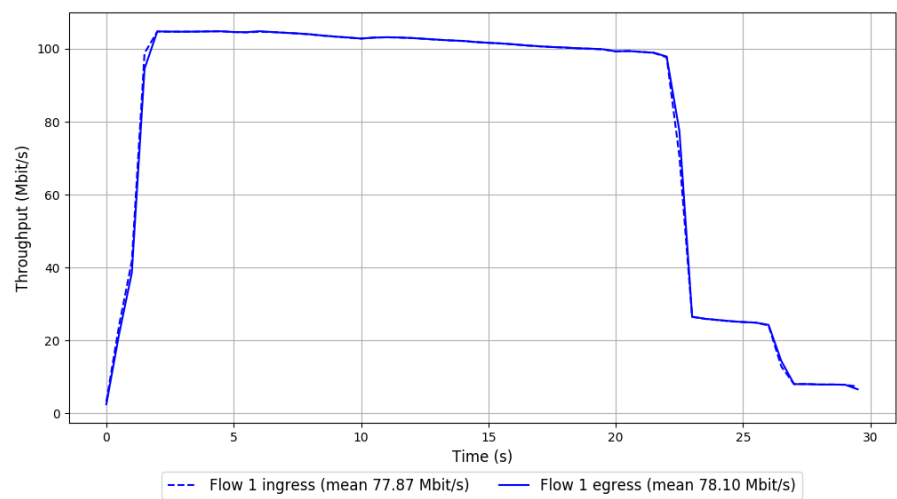
-- Flow 1:

Average throughput: 78.10 Mbit/s

95th percentile per-packet one-way delay: 50.555 ms

Loss rate: 0.03%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-13 05:15:45

End at: 2018-02-13 05:16:15

Below is generated by plot.py at 2018-02-13 08:52:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.25 Mbit/s

95th percentile per-packet one-way delay: 50.667 ms

Loss rate: 0.05%

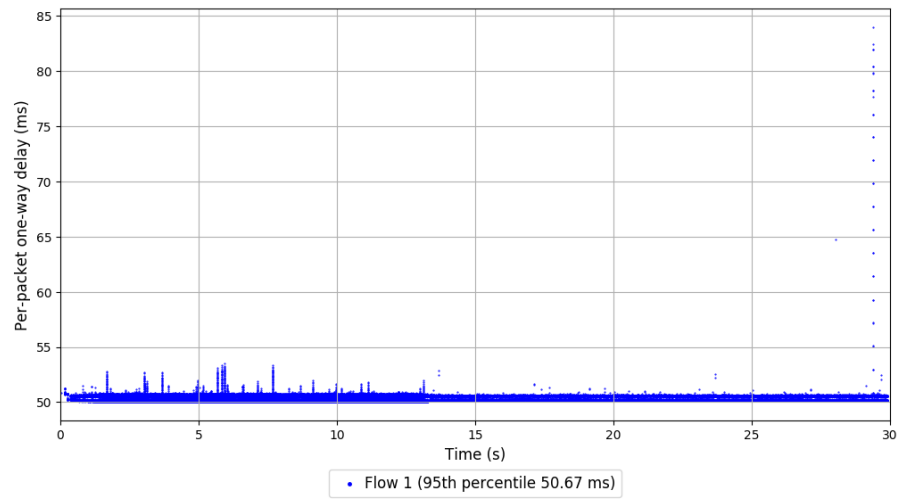
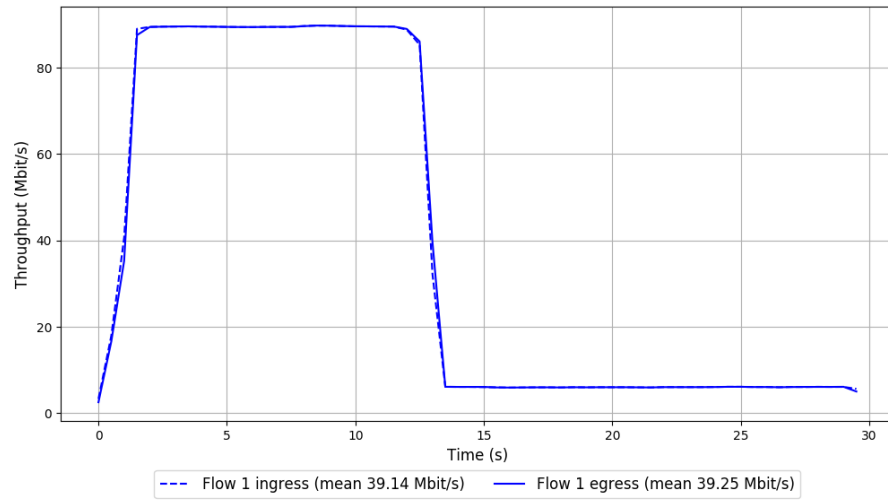
-- Flow 1:

Average throughput: 39.25 Mbit/s

95th percentile per-packet one-way delay: 50.667 ms

Loss rate: 0.05%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-13 05:30:29

End at: 2018-02-13 05:30:59

Below is generated by plot.py at 2018-02-13 08:52:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.18 Mbit/s

95th percentile per-packet one-way delay: 50.547 ms

Loss rate: 0.40%

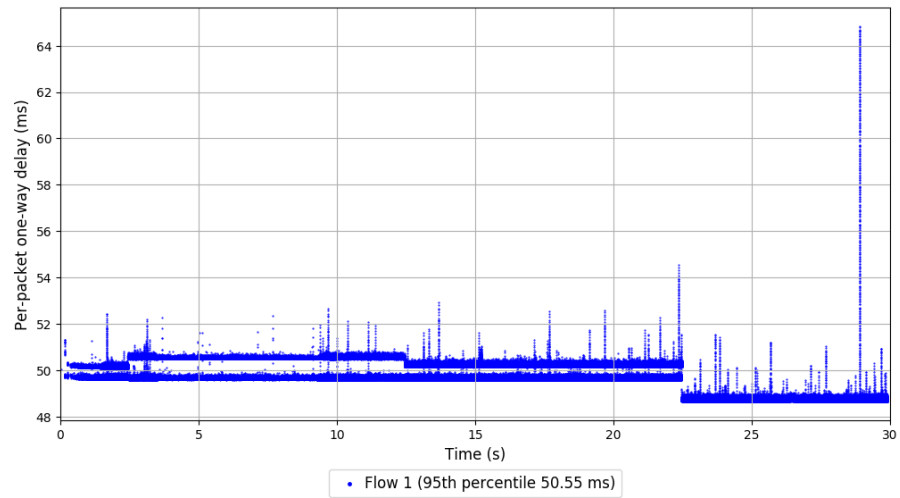
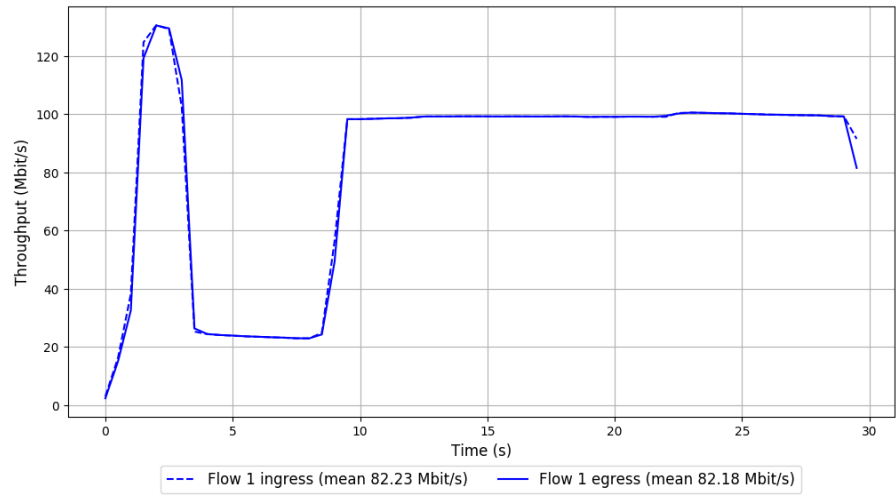
-- Flow 1:

Average throughput: 82.18 Mbit/s

95th percentile per-packet one-way delay: 50.547 ms

Loss rate: 0.40%

Run 10: Report of Copa — Data Link

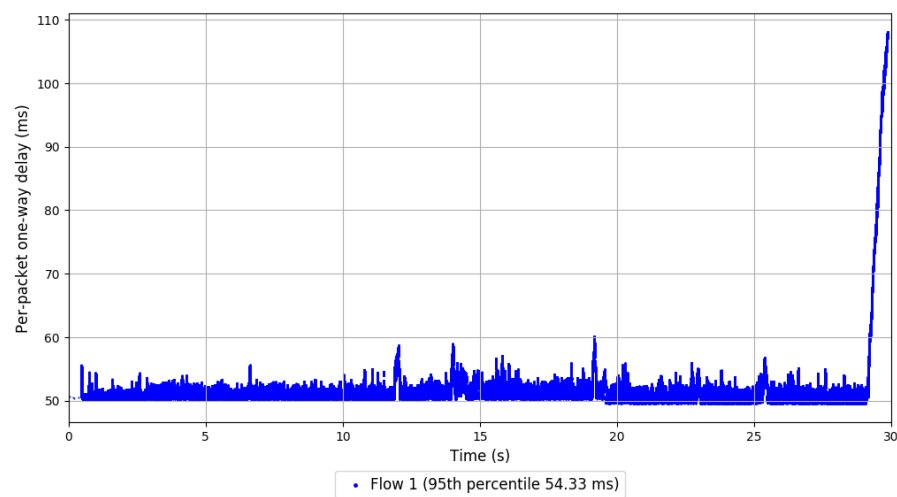
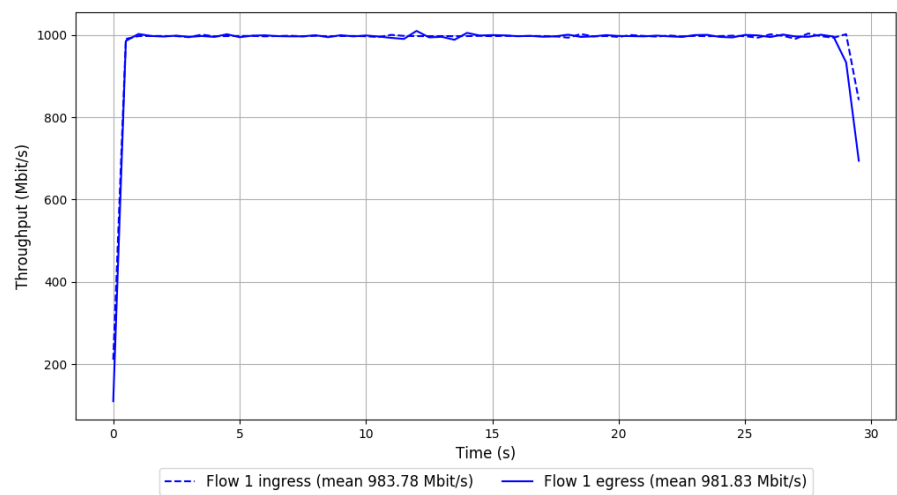


```
Run 1: Statistics of FillP

Start at: 2018-02-13 03:19:02
End at: 2018-02-13 03:19:32

# Below is generated by plot.py at 2018-02-13 09:07:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 981.83 Mbit/s
95th percentile per-packet one-way delay: 54.331 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 981.83 Mbit/s
95th percentile per-packet one-way delay: 54.331 ms
Loss rate: 0.53%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-13 03:33:49

End at: 2018-02-13 03:34:19

Below is generated by plot.py at 2018-02-13 09:07:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 971.89 Mbit/s

95th percentile per-packet one-way delay: 70.056 ms

Loss rate: 0.39%

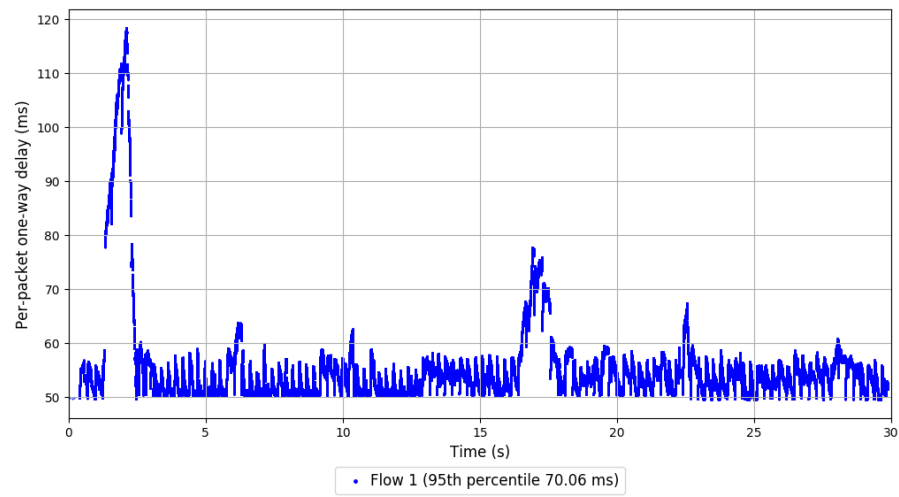
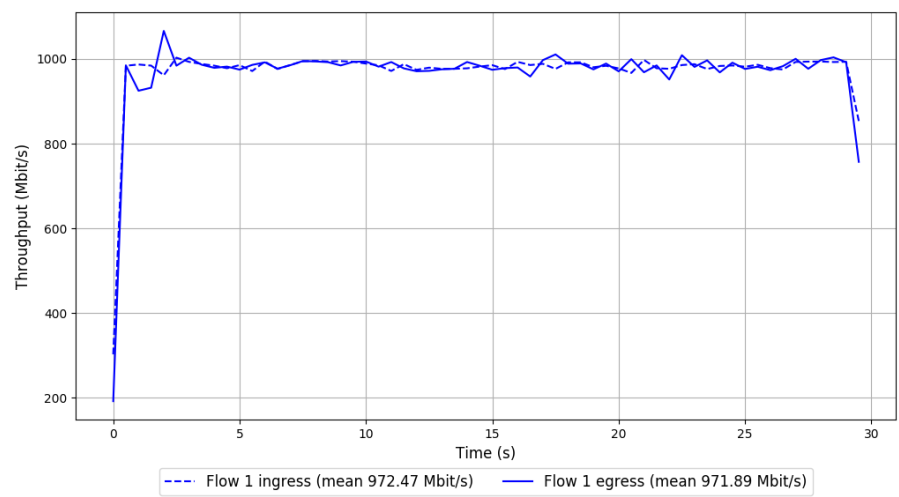
-- Flow 1:

Average throughput: 971.89 Mbit/s

95th percentile per-packet one-way delay: 70.056 ms

Loss rate: 0.39%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-13 03:48:37

End at: 2018-02-13 03:49:07

Below is generated by plot.py at 2018-02-13 09:07:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 981.28 Mbit/s

95th percentile per-packet one-way delay: 83.835 ms

Loss rate: 0.27%

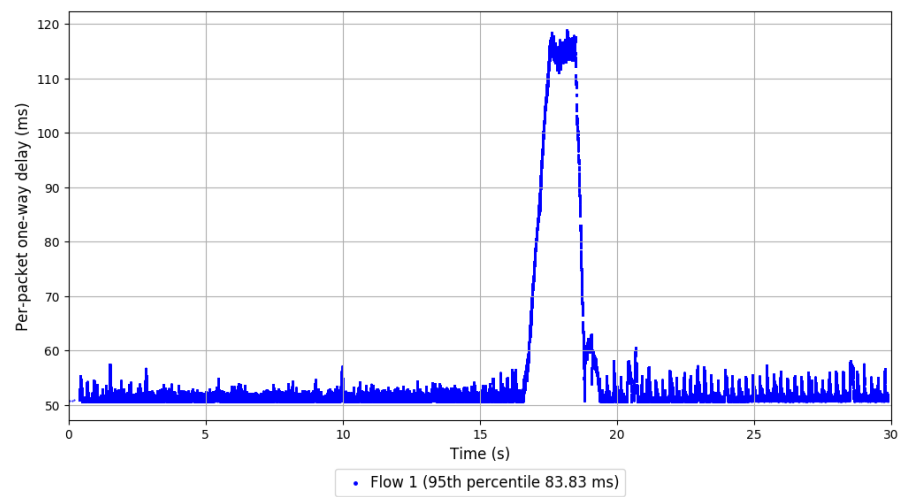
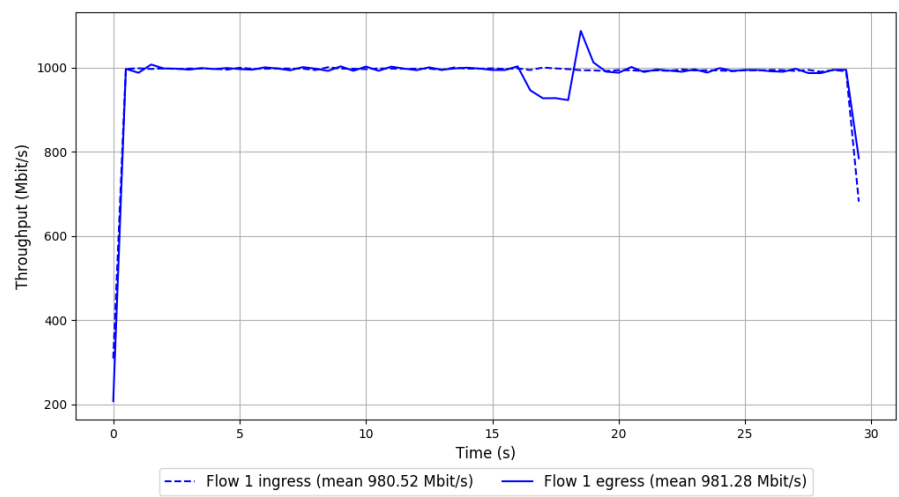
-- Flow 1:

Average throughput: 981.28 Mbit/s

95th percentile per-packet one-way delay: 83.835 ms

Loss rate: 0.27%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-13 04:03:23

End at: 2018-02-13 04:03:53

Below is generated by plot.py at 2018-02-13 09:07:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 976.77 Mbit/s

95th percentile per-packet one-way delay: 58.337 ms

Loss rate: 0.37%

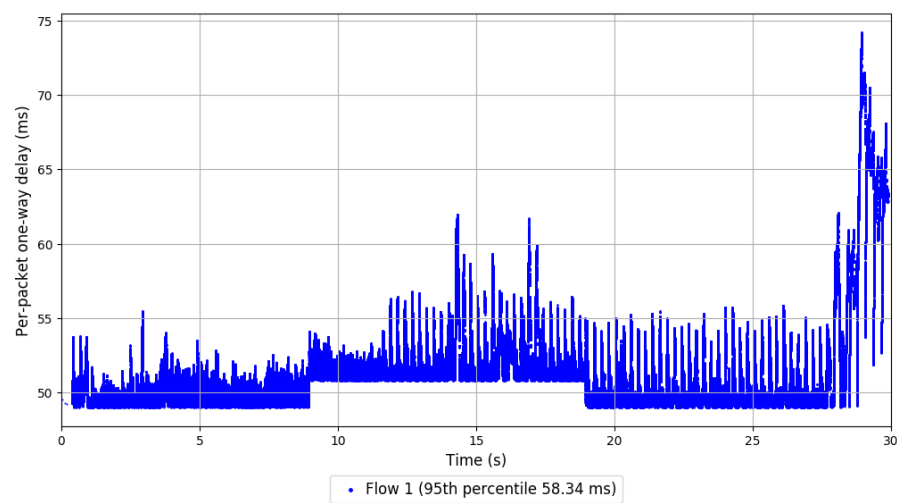
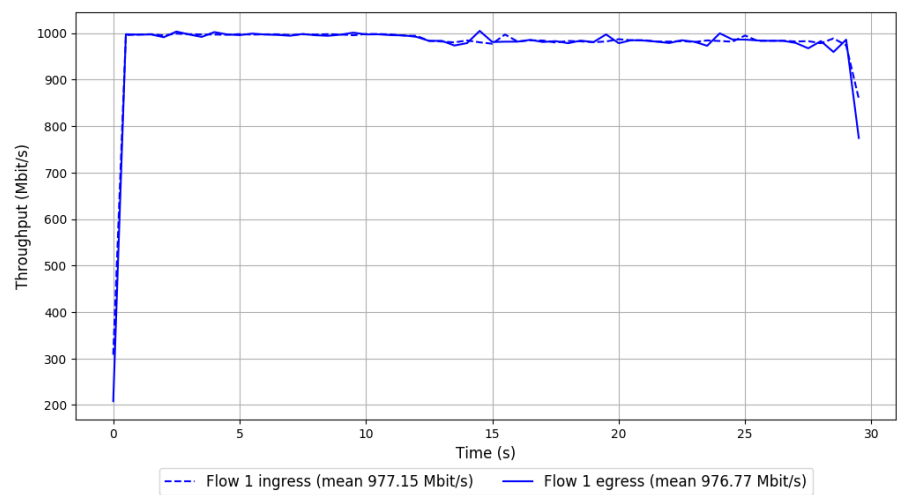
-- Flow 1:

Average throughput: 976.77 Mbit/s

95th percentile per-packet one-way delay: 58.337 ms

Loss rate: 0.37%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-13 04:18:10

End at: 2018-02-13 04:18:40

Below is generated by plot.py at 2018-02-13 09:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 985.21 Mbit/s

95th percentile per-packet one-way delay: 63.395 ms

Loss rate: 0.34%

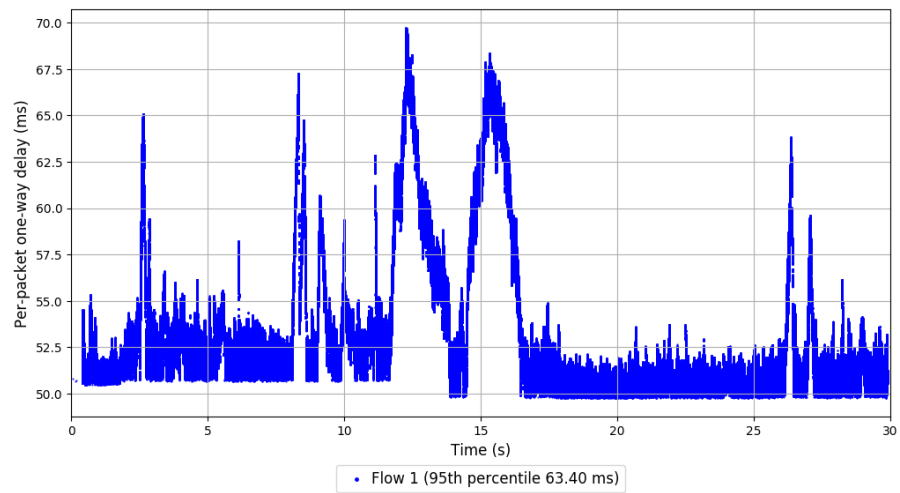
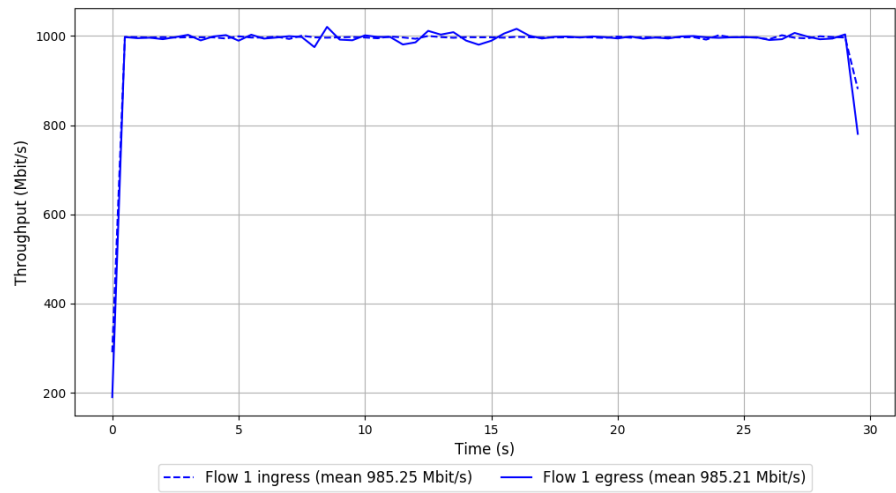
-- Flow 1:

Average throughput: 985.21 Mbit/s

95th percentile per-packet one-way delay: 63.395 ms

Loss rate: 0.34%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-13 04:33:14

End at: 2018-02-13 04:33:44

Below is generated by plot.py at 2018-02-13 09:08:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 974.99 Mbit/s

95th percentile per-packet one-way delay: 70.879 ms

Loss rate: 0.35%

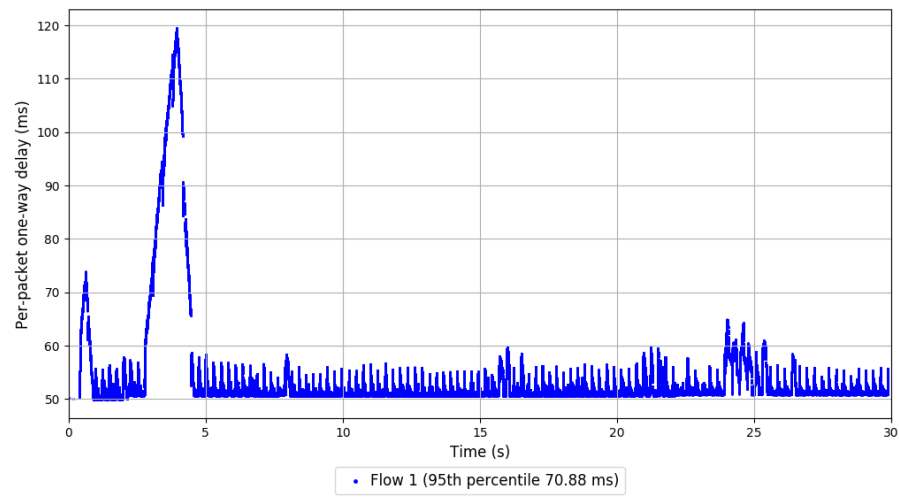
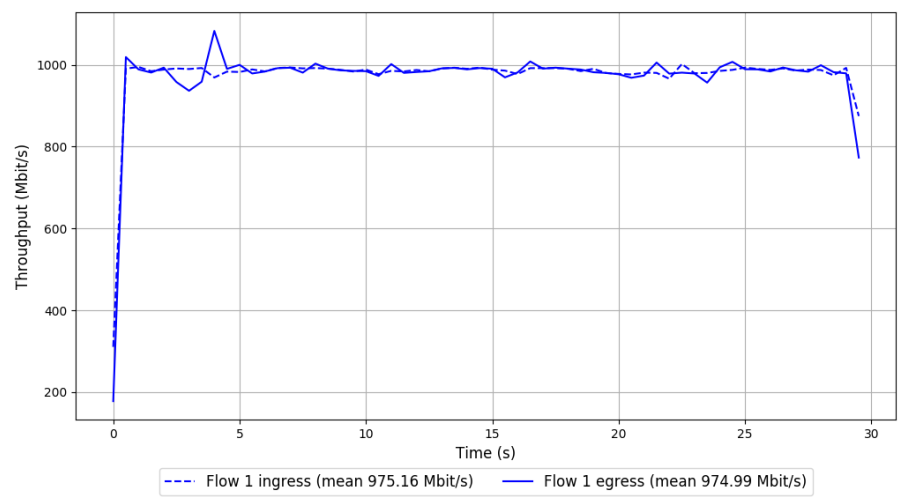
-- Flow 1:

Average throughput: 974.99 Mbit/s

95th percentile per-packet one-way delay: 70.879 ms

Loss rate: 0.35%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-13 04:48:00

End at: 2018-02-13 04:48:30

Below is generated by plot.py at 2018-02-13 09:08:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 971.16 Mbit/s

95th percentile per-packet one-way delay: 80.989 ms

Loss rate: 0.39%

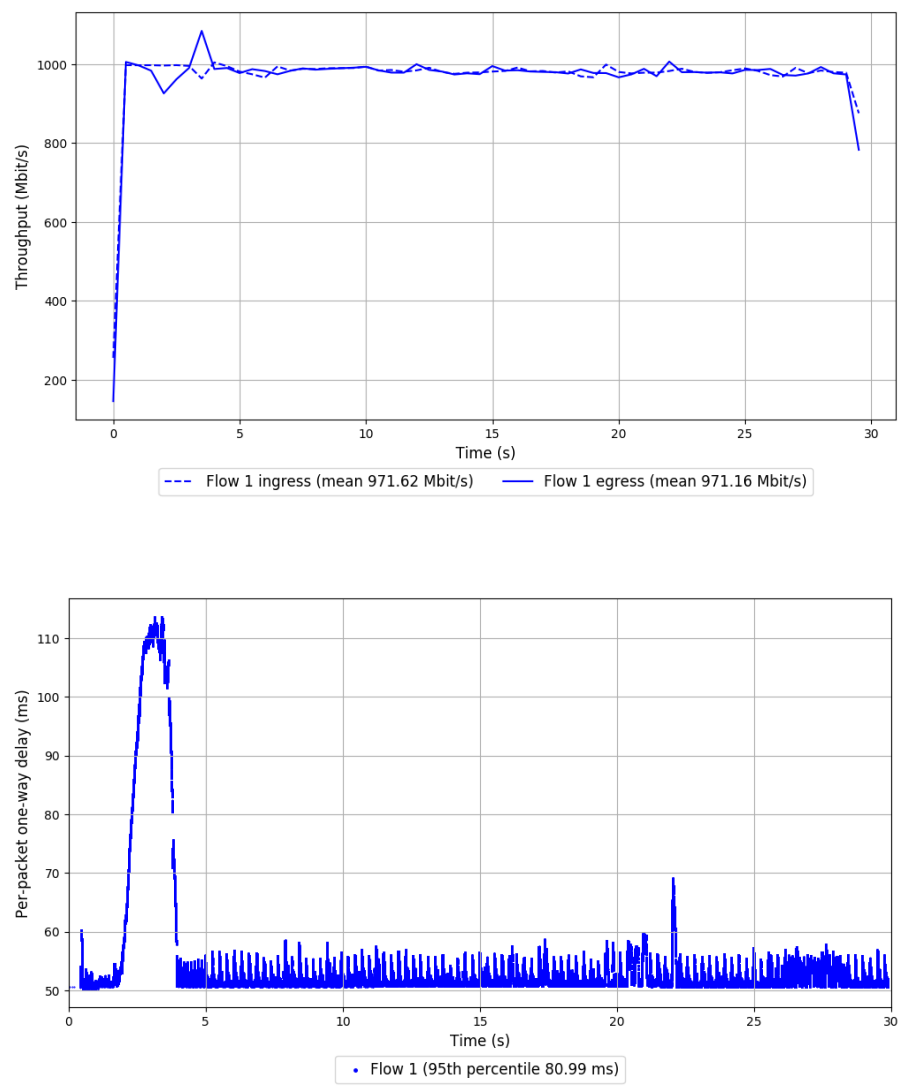
-- Flow 1:

Average throughput: 971.16 Mbit/s

95th percentile per-packet one-way delay: 80.989 ms

Loss rate: 0.39%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-13 05:02:46

End at: 2018-02-13 05:03:16

Below is generated by plot.py at 2018-02-13 09:08:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 978.10 Mbit/s

95th percentile per-packet one-way delay: 57.354 ms

Loss rate: 0.57%

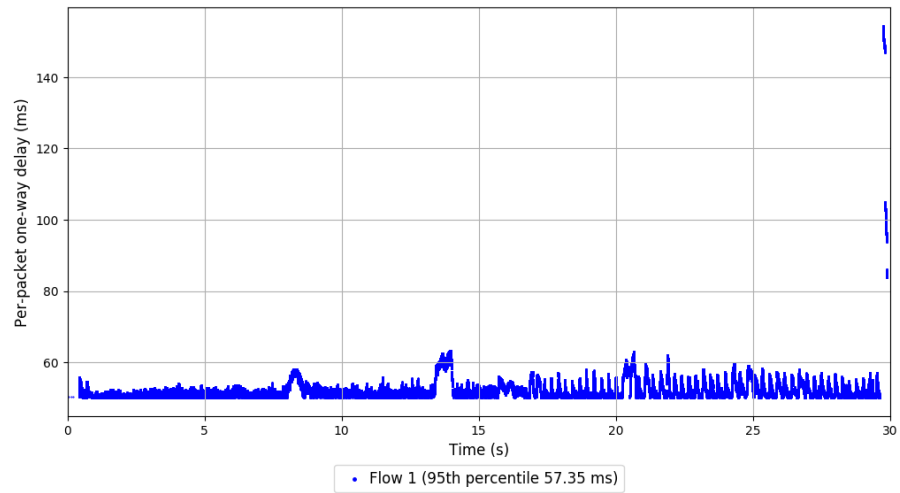
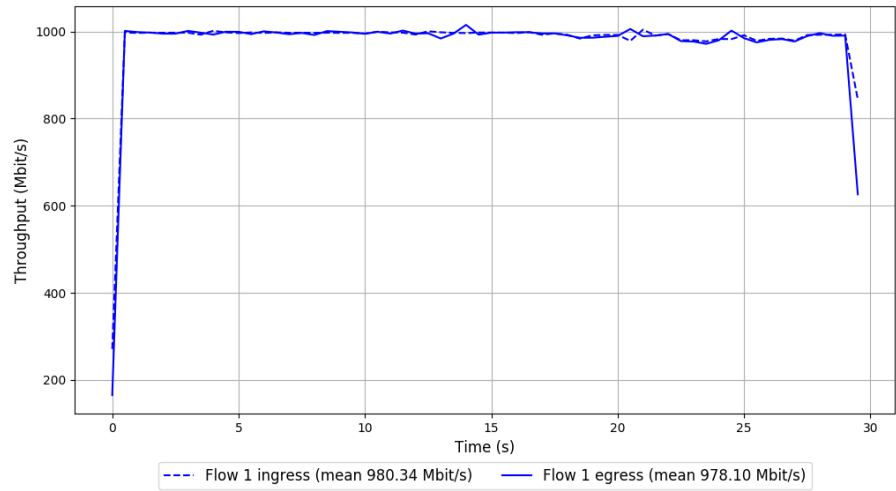
-- Flow 1:

Average throughput: 978.10 Mbit/s

95th percentile per-packet one-way delay: 57.354 ms

Loss rate: 0.57%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-13 05:17:33

End at: 2018-02-13 05:18:03

Below is generated by plot.py at 2018-02-13 09:22:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 978.05 Mbit/s

95th percentile per-packet one-way delay: 109.781 ms

Loss rate: 0.79%

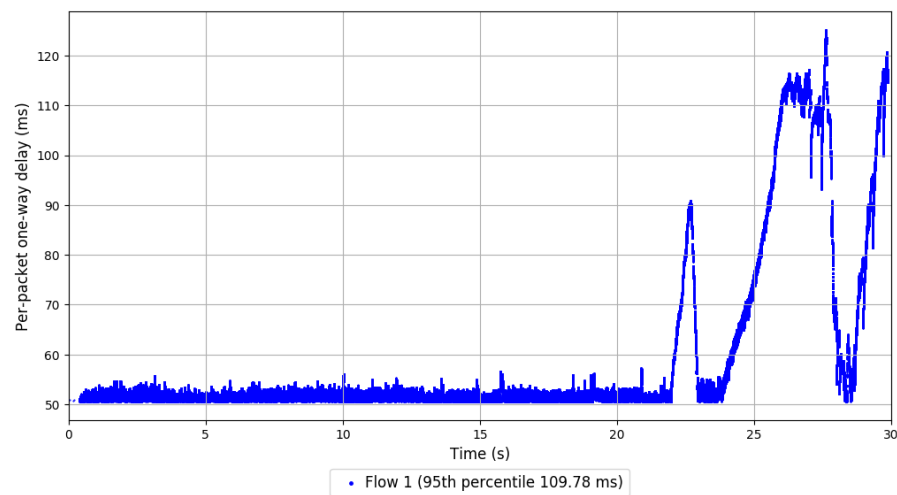
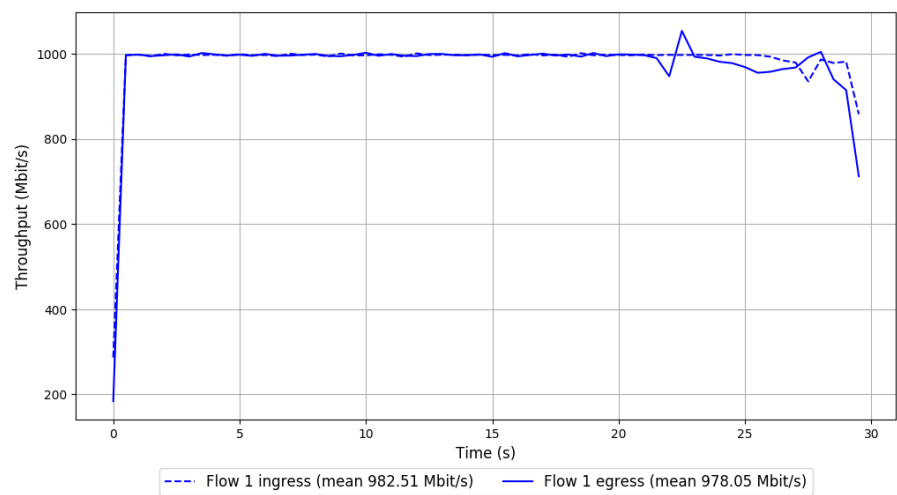
-- Flow 1:

Average throughput: 978.05 Mbit/s

95th percentile per-packet one-way delay: 109.781 ms

Loss rate: 0.79%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-13 05:32:19

End at: 2018-02-13 05:32:49

Below is generated by plot.py at 2018-02-13 09:22:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 971.01 Mbit/s

95th percentile per-packet one-way delay: 61.127 ms

Loss rate: 0.17%

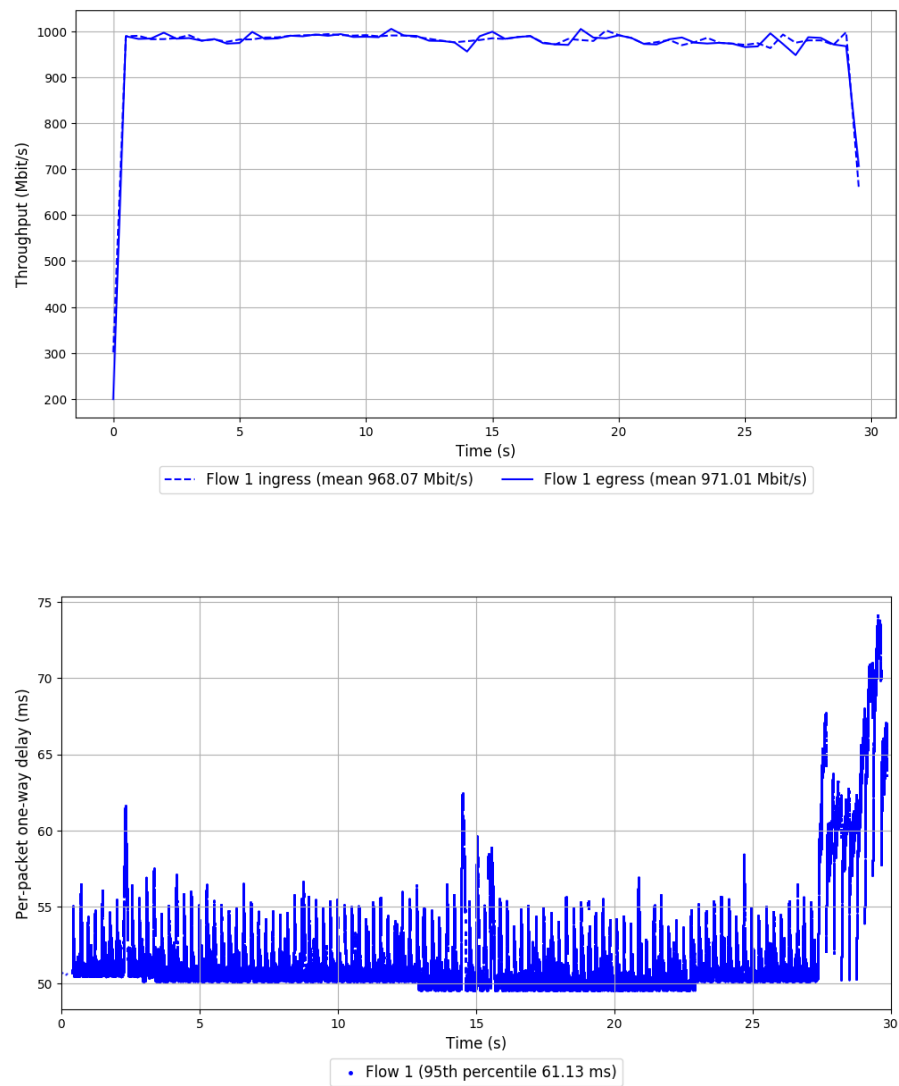
-- Flow 1:

Average throughput: 971.01 Mbit/s

95th percentile per-packet one-way delay: 61.127 ms

Loss rate: 0.17%

Run 10: Report of FillP — Data Link

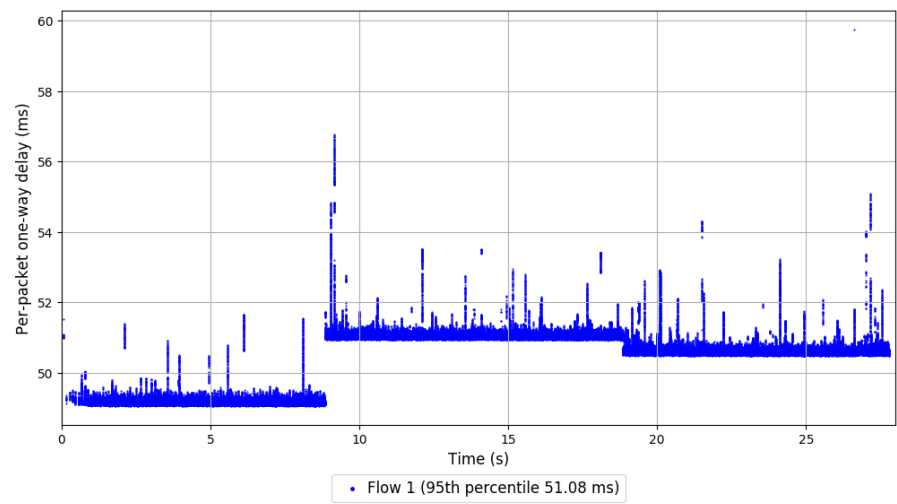
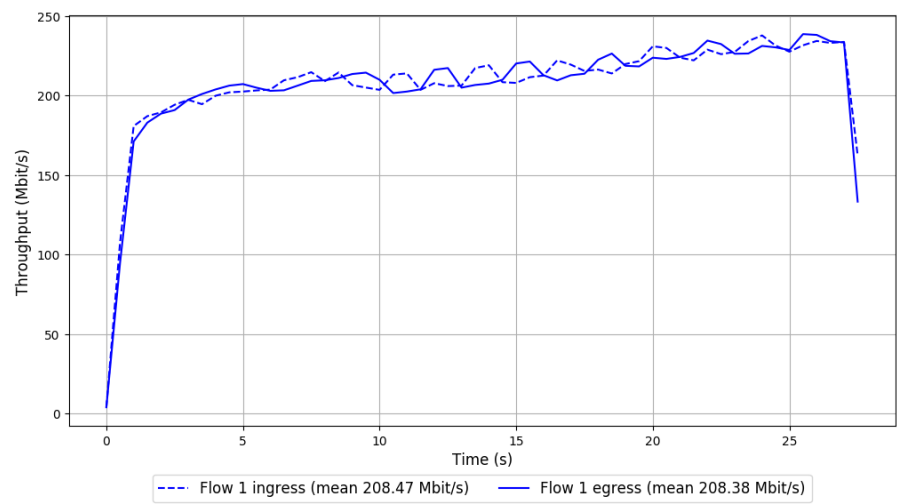


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-13 03:08:11
End at: 2018-02-13 03:08:41

# Below is generated by plot.py at 2018-02-13 09:22:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 208.38 Mbit/s
95th percentile per-packet one-way delay: 51.077 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 208.38 Mbit/s
95th percentile per-packet one-way delay: 51.077 ms
Loss rate: 0.40%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-02-13 03:23:05

End at: 2018-02-13 03:23:35

Below is generated by plot.py at 2018-02-13 09:22:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.48 Mbit/s

95th percentile per-packet one-way delay: 50.483 ms

Loss rate: 0.33%

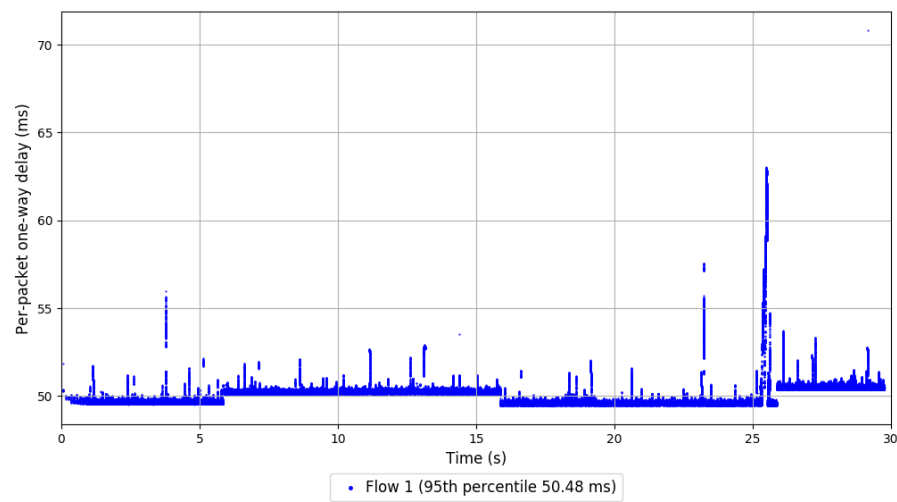
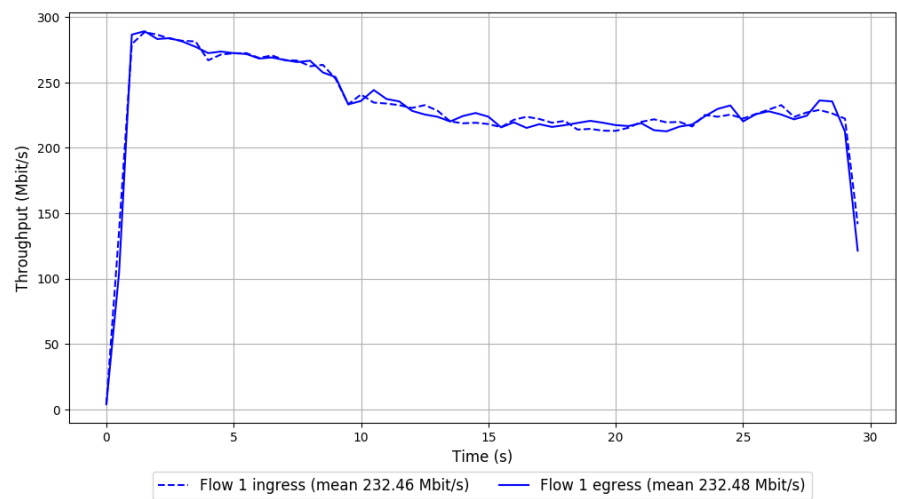
-- Flow 1:

Average throughput: 232.48 Mbit/s

95th percentile per-packet one-way delay: 50.483 ms

Loss rate: 0.33%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-13 03:37:50

End at: 2018-02-13 03:38:20

Below is generated by plot.py at 2018-02-13 09:22:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.00 Mbit/s

95th percentile per-packet one-way delay: 49.814 ms

Loss rate: 0.31%

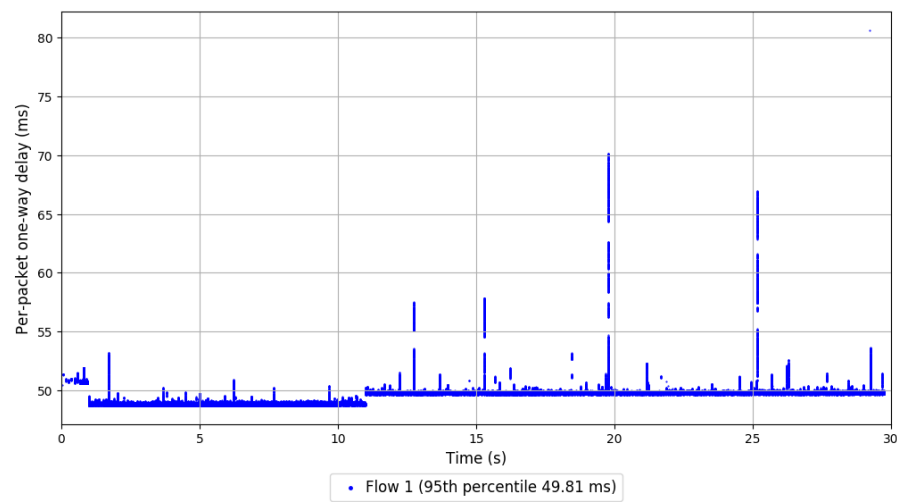
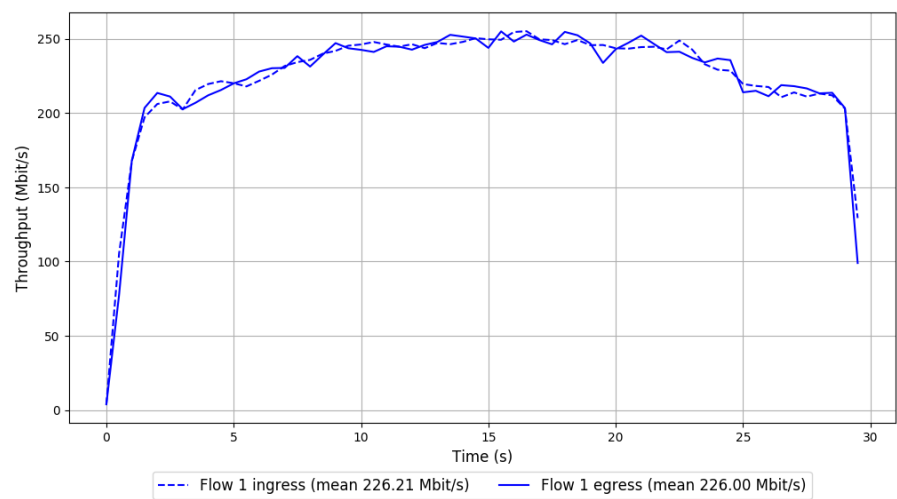
-- Flow 1:

Average throughput: 226.00 Mbit/s

95th percentile per-packet one-way delay: 49.814 ms

Loss rate: 0.31%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-13 03:52:36

End at: 2018-02-13 03:53:06

Below is generated by plot.py at 2018-02-13 09:22:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 231.96 Mbit/s

95th percentile per-packet one-way delay: 50.841 ms

Loss rate: 0.33%

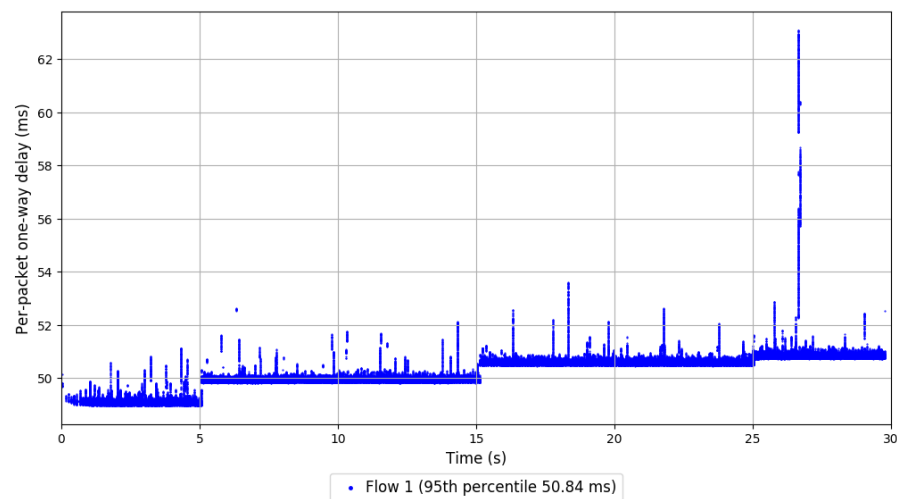
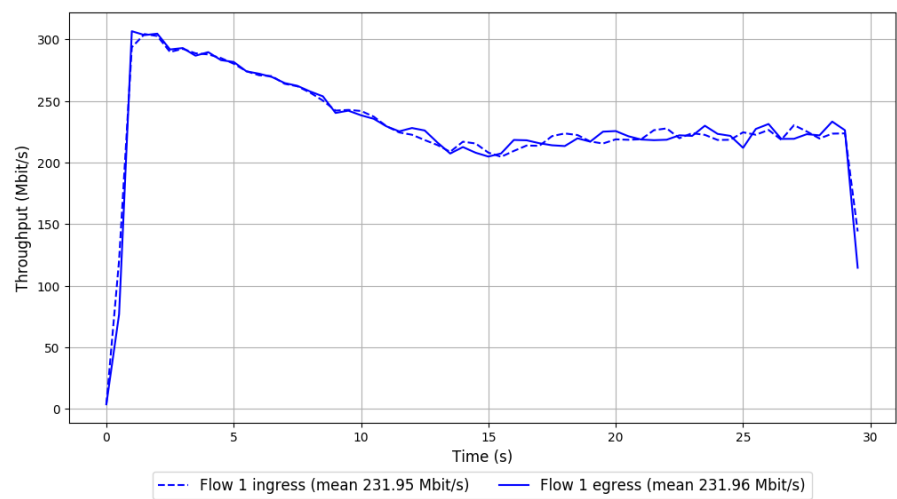
-- Flow 1:

Average throughput: 231.96 Mbit/s

95th percentile per-packet one-way delay: 50.841 ms

Loss rate: 0.33%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-13 04:07:20

End at: 2018-02-13 04:07:50

Below is generated by plot.py at 2018-02-13 09:22:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.05 Mbit/s

95th percentile per-packet one-way delay: 50.950 ms

Loss rate: 0.32%

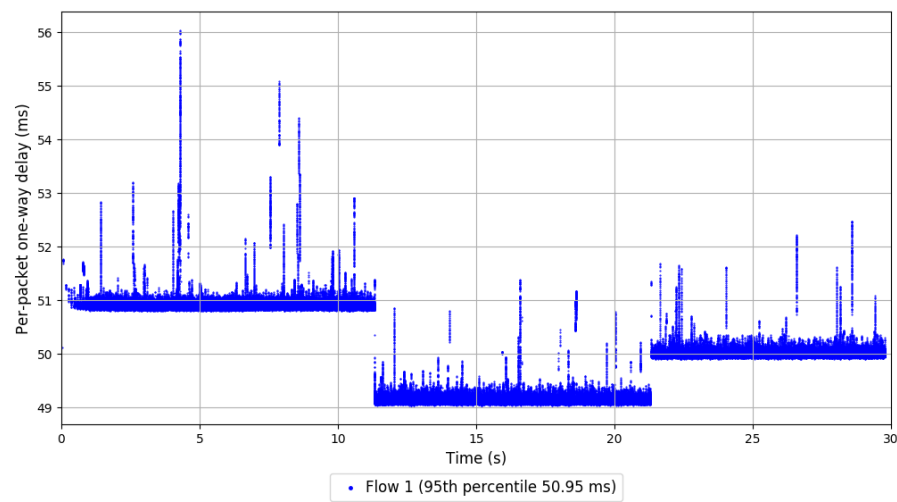
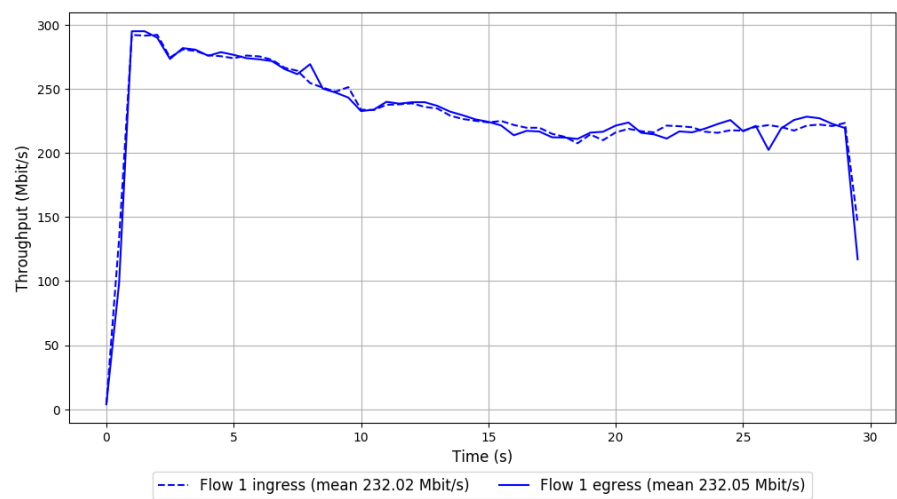
-- Flow 1:

Average throughput: 232.05 Mbit/s

95th percentile per-packet one-way delay: 50.950 ms

Loss rate: 0.32%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-13 04:22:08

End at: 2018-02-13 04:22:38

Below is generated by plot.py at 2018-02-13 09:22:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.09 Mbit/s

95th percentile per-packet one-way delay: 50.920 ms

Loss rate: 0.33%

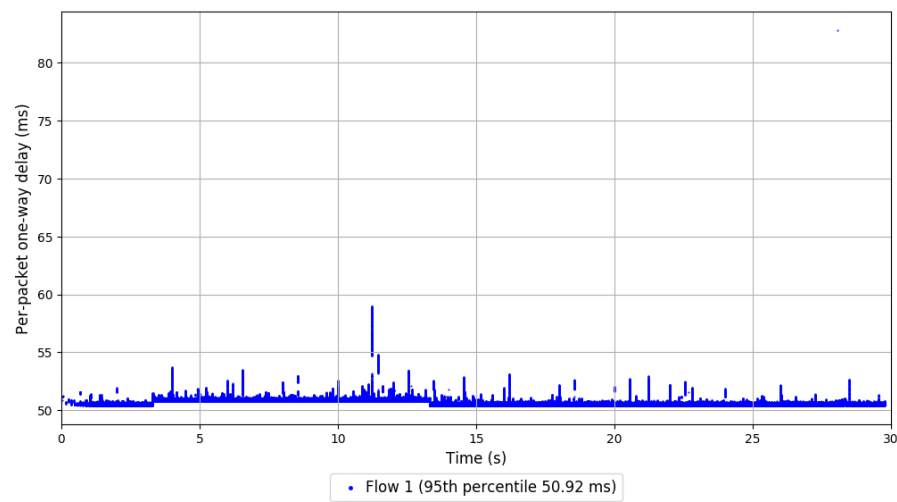
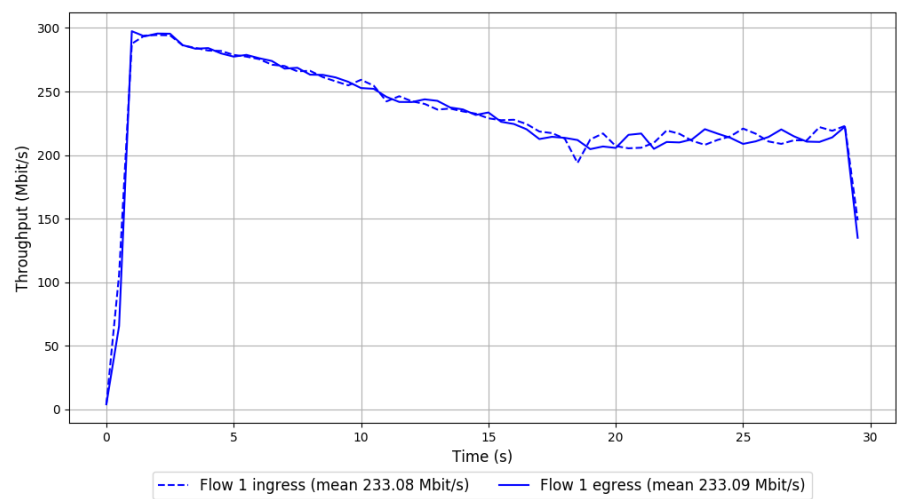
-- Flow 1:

Average throughput: 233.09 Mbit/s

95th percentile per-packet one-way delay: 50.920 ms

Loss rate: 0.33%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-13 04:37:14

End at: 2018-02-13 04:37:44

Below is generated by plot.py at 2018-02-13 09:22:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.75 Mbit/s

95th percentile per-packet one-way delay: 50.875 ms

Loss rate: 0.36%

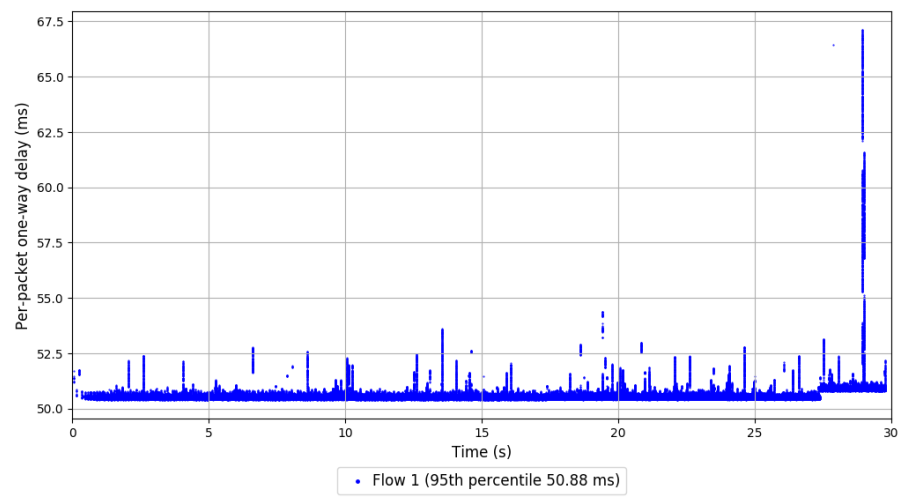
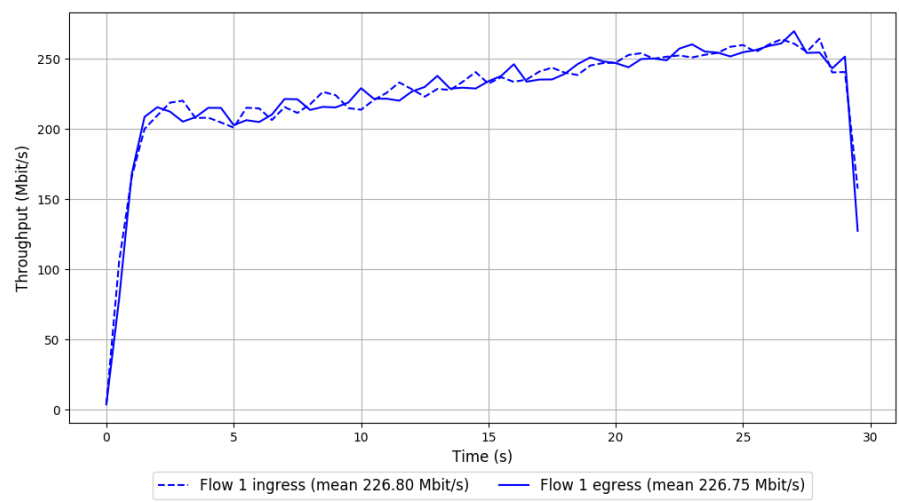
-- Flow 1:

Average throughput: 226.75 Mbit/s

95th percentile per-packet one-way delay: 50.875 ms

Loss rate: 0.36%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-13 04:52:00

End at: 2018-02-13 04:52:30

Below is generated by plot.py at 2018-02-13 09:22:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.75 Mbit/s

95th percentile per-packet one-way delay: 50.721 ms

Loss rate: 0.35%

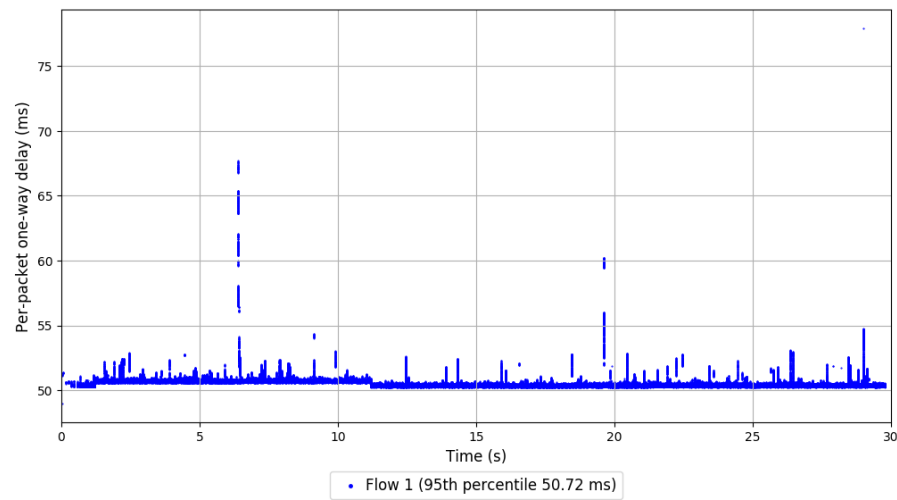
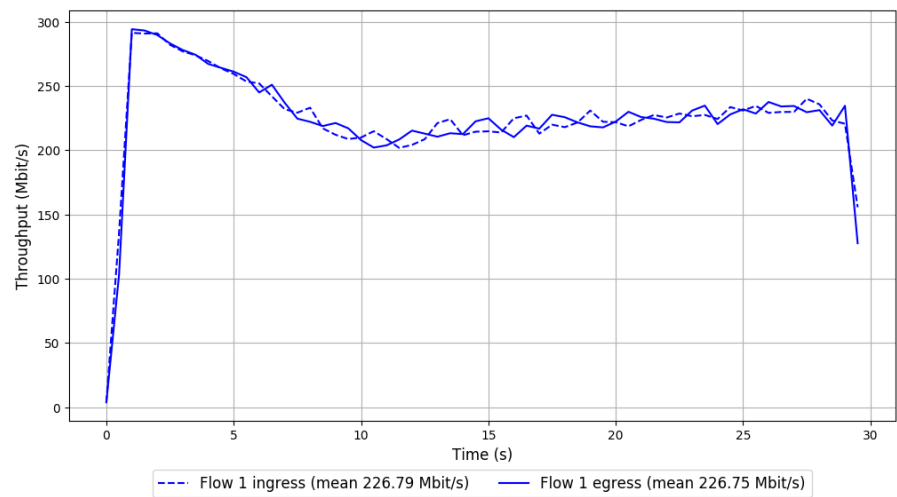
-- Flow 1:

Average throughput: 226.75 Mbit/s

95th percentile per-packet one-way delay: 50.721 ms

Loss rate: 0.35%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-13 05:06:45

End at: 2018-02-13 05:07:15

Below is generated by plot.py at 2018-02-13 09:22:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.44 Mbit/s

95th percentile per-packet one-way delay: 50.613 ms

Loss rate: 0.38%

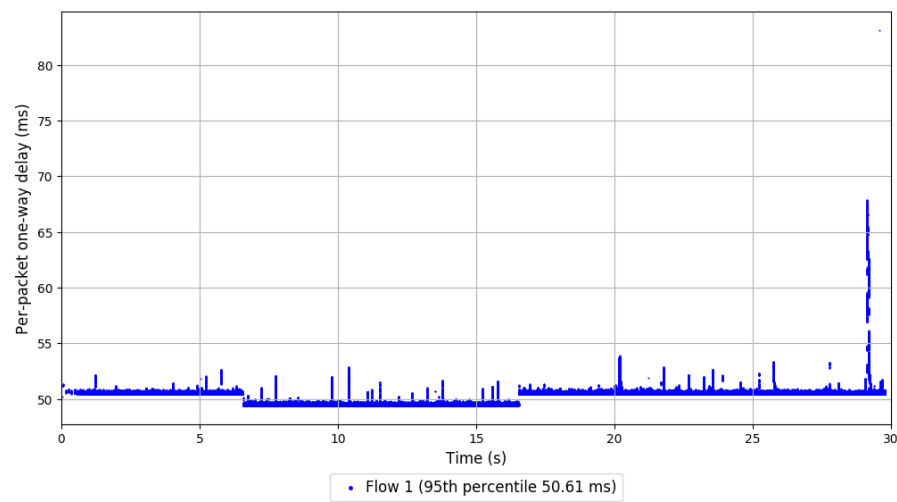
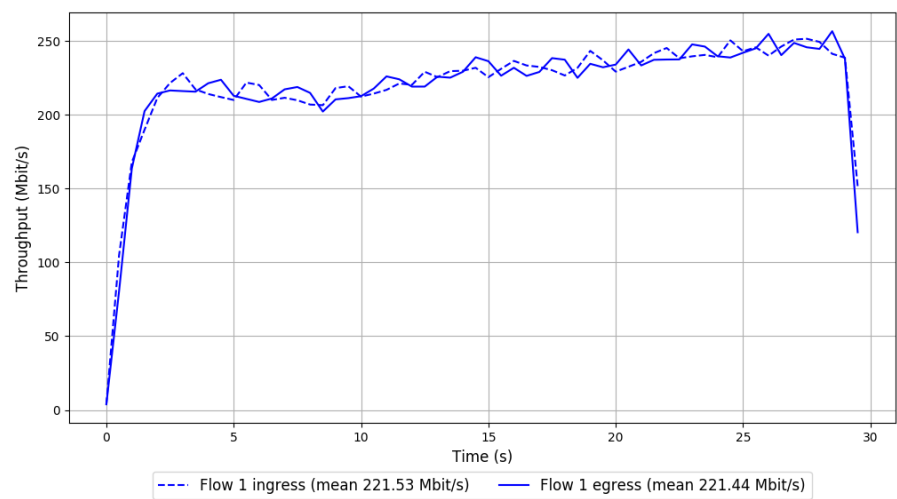
-- Flow 1:

Average throughput: 221.44 Mbit/s

95th percentile per-packet one-way delay: 50.613 ms

Loss rate: 0.38%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-13 05:21:34

End at: 2018-02-13 05:22:04

Below is generated by plot.py at 2018-02-13 09:22:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.59 Mbit/s

95th percentile per-packet one-way delay: 50.249 ms

Loss rate: 0.33%

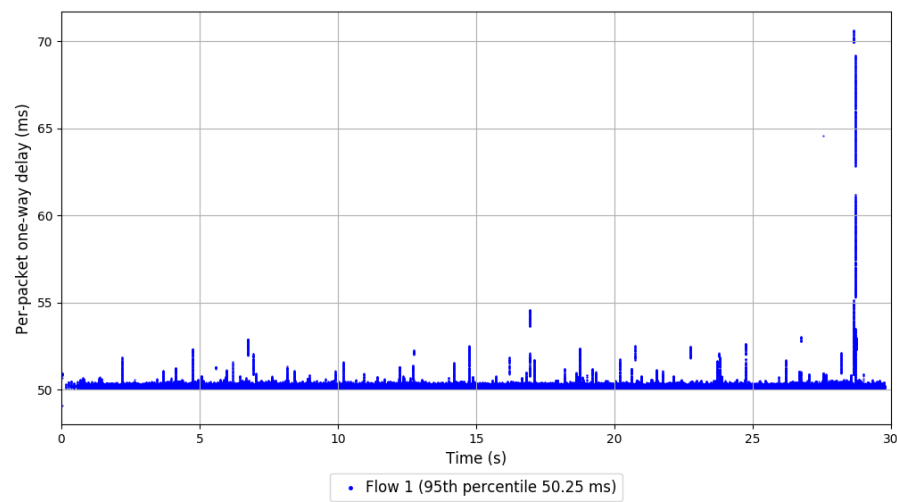
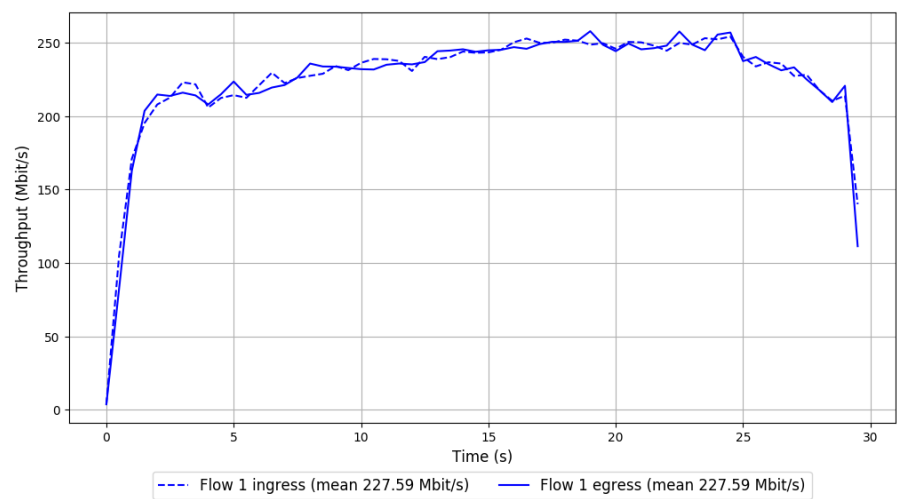
-- Flow 1:

Average throughput: 227.59 Mbit/s

95th percentile per-packet one-way delay: 50.249 ms

Loss rate: 0.33%

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

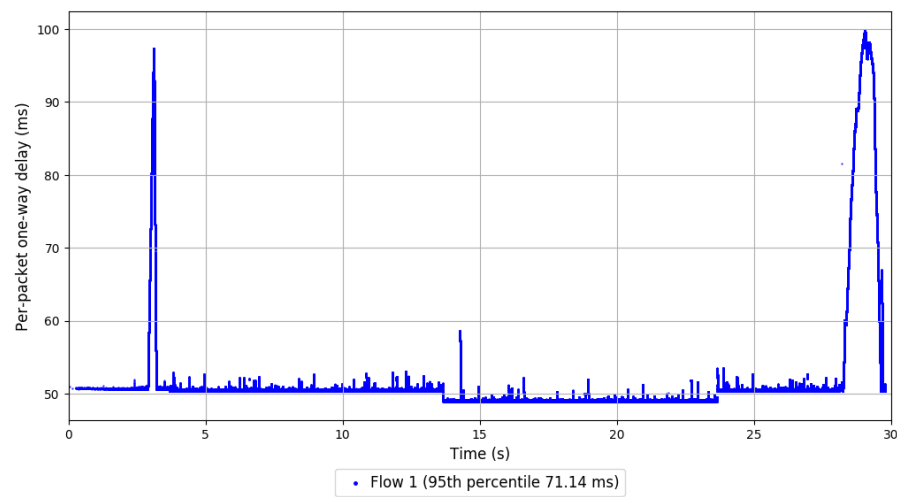
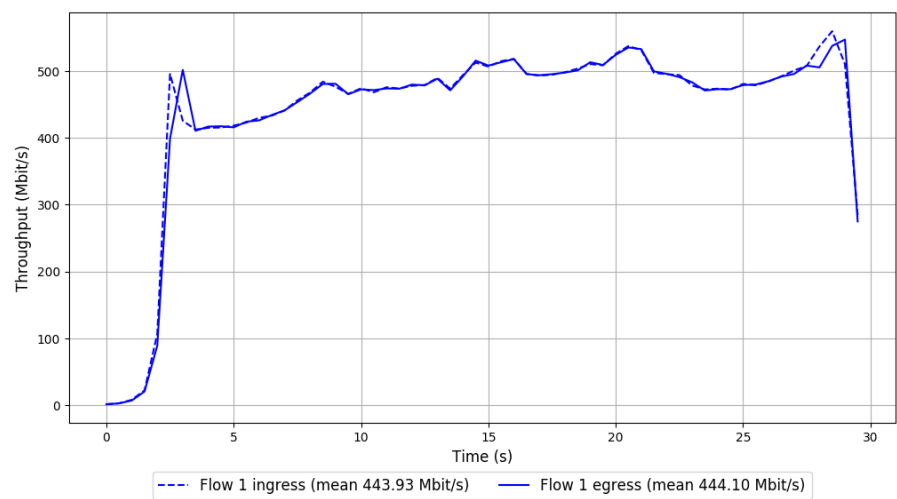


```
Run 1: Statistics of Vivace-latency

Start at: 2018-02-13 03:12:18
End at: 2018-02-13 03:12:48

# Below is generated by plot.py at 2018-02-13 09:22:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 444.10 Mbit/s
95th percentile per-packet one-way delay: 71.136 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 444.10 Mbit/s
95th percentile per-packet one-way delay: 71.136 ms
Loss rate: 0.30%
```


Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-13 03:27:12

End at: 2018-02-13 03:27:42

Below is generated by plot.py at 2018-02-13 09:22:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 439.75 Mbit/s

95th percentile per-packet one-way delay: 50.721 ms

Loss rate: 0.35%

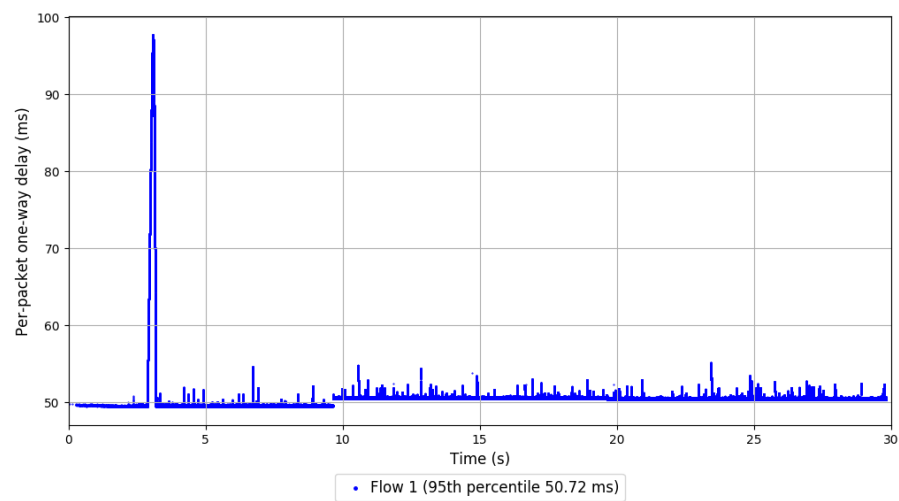
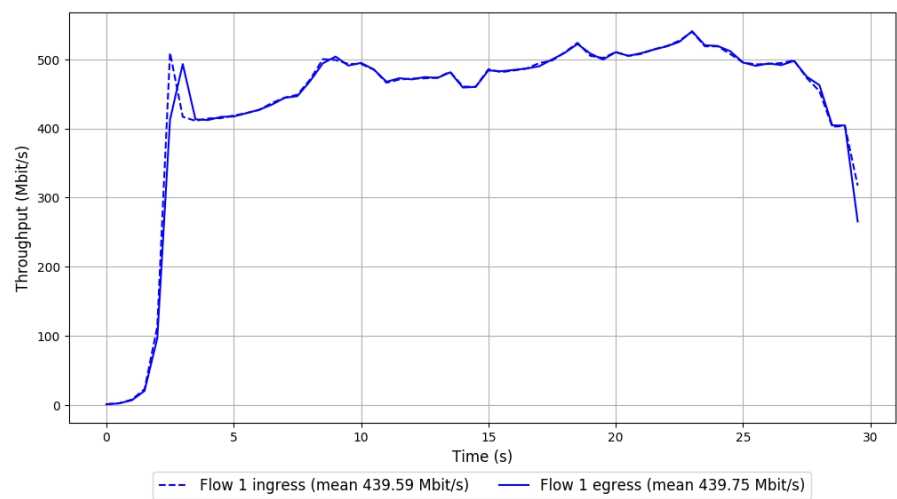
-- Flow 1:

Average throughput: 439.75 Mbit/s

95th percentile per-packet one-way delay: 50.721 ms

Loss rate: 0.35%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-13 03:41:57

End at: 2018-02-13 03:42:27

Below is generated by plot.py at 2018-02-13 09:22:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 468.10 Mbit/s

95th percentile per-packet one-way delay: 51.754 ms

Loss rate: 0.37%

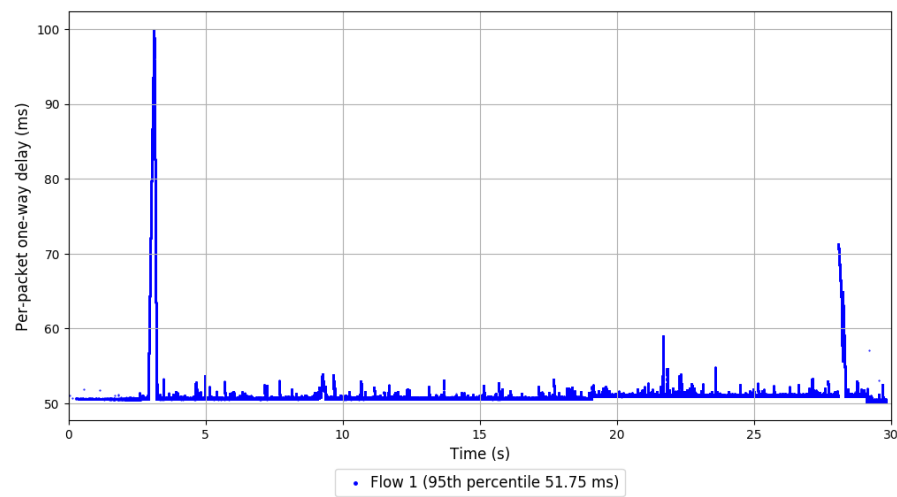
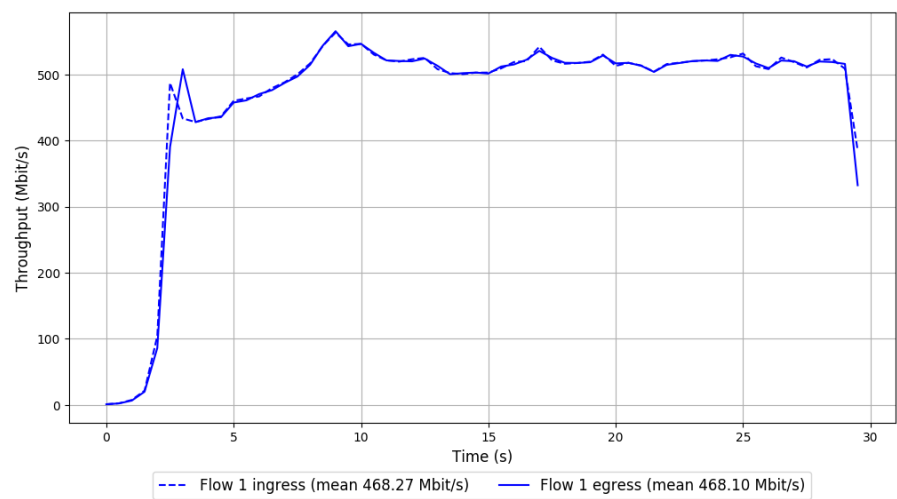
-- Flow 1:

Average throughput: 468.10 Mbit/s

95th percentile per-packet one-way delay: 51.754 ms

Loss rate: 0.37%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-13 03:56:45

End at: 2018-02-13 03:57:15

Below is generated by plot.py at 2018-02-13 09:22:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 452.56 Mbit/s

95th percentile per-packet one-way delay: 50.935 ms

Loss rate: 0.34%

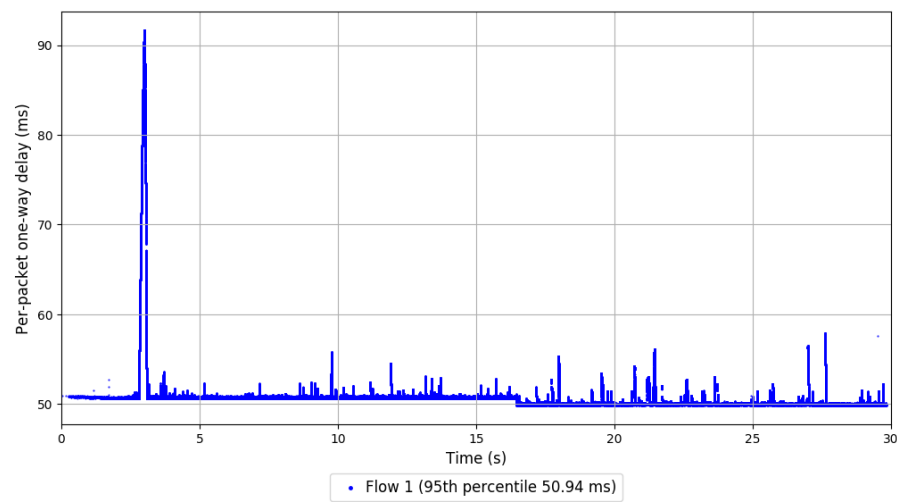
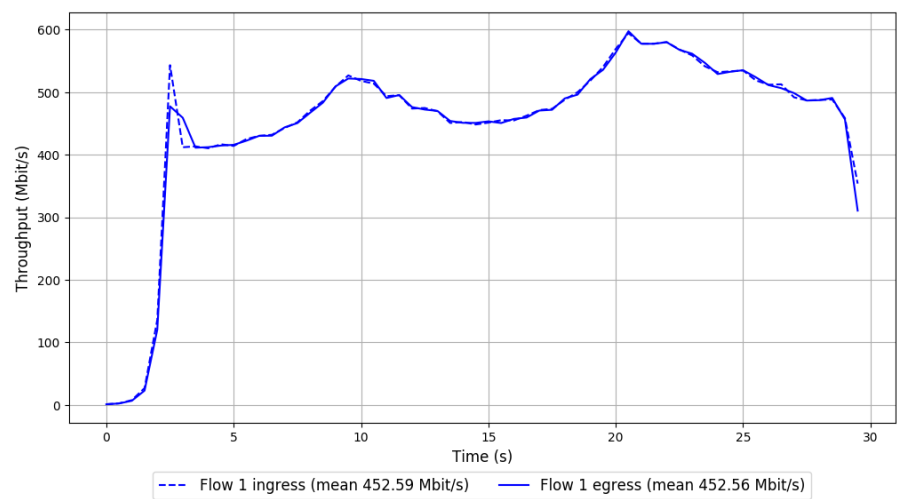
-- Flow 1:

Average throughput: 452.56 Mbit/s

95th percentile per-packet one-way delay: 50.935 ms

Loss rate: 0.34%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-13 04:11:29

End at: 2018-02-13 04:11:59

Below is generated by plot.py at 2018-02-13 09:22:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 411.03 Mbit/s

95th percentile per-packet one-way delay: 50.210 ms

Loss rate: 0.34%

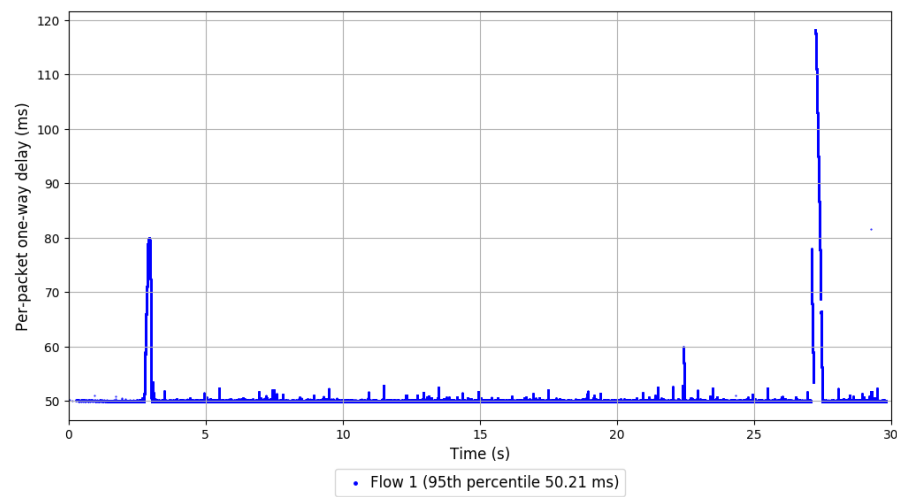
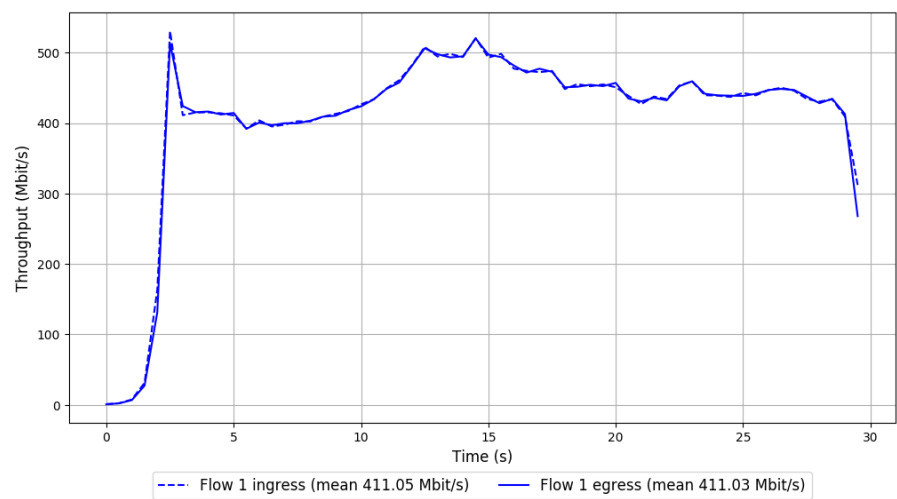
-- Flow 1:

Average throughput: 411.03 Mbit/s

95th percentile per-packet one-way delay: 50.210 ms

Loss rate: 0.34%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-13 04:26:15

End at: 2018-02-13 04:26:45

Below is generated by plot.py at 2018-02-13 09:22:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 455.98 Mbit/s

95th percentile per-packet one-way delay: 54.238 ms

Loss rate: 0.33%

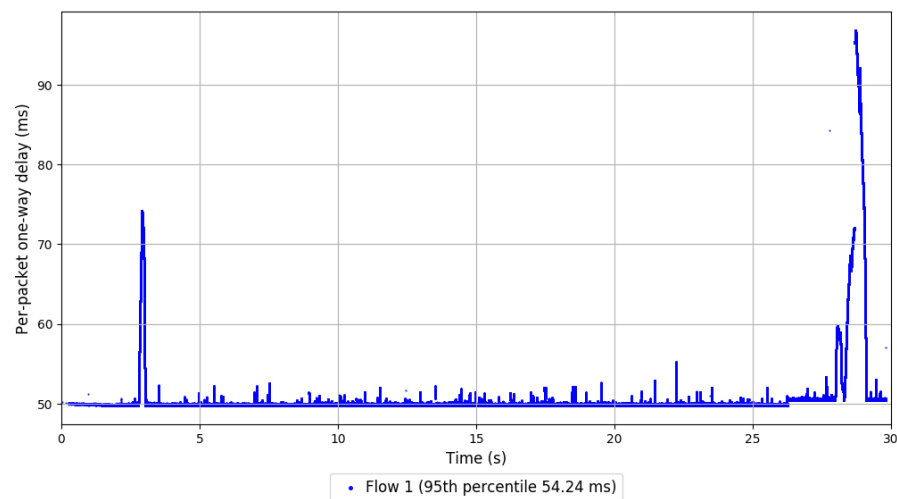
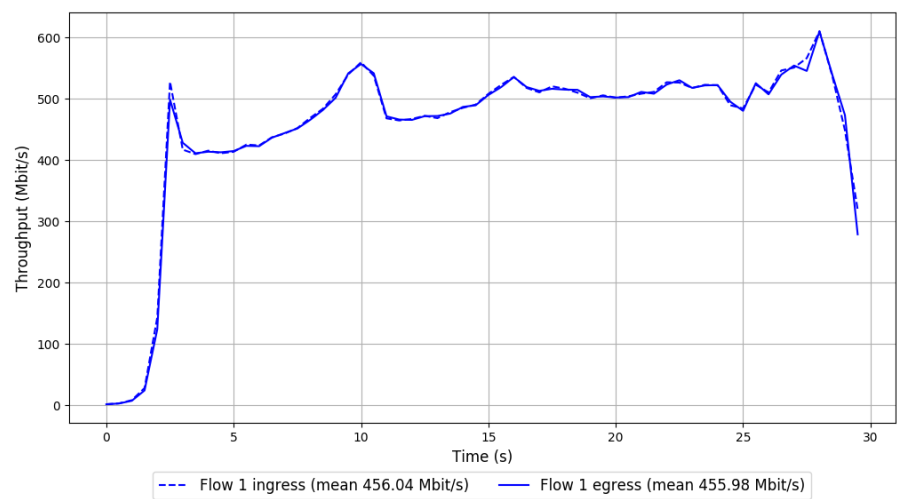
-- Flow 1:

Average throughput: 455.98 Mbit/s

95th percentile per-packet one-way delay: 54.238 ms

Loss rate: 0.33%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-13 04:41:19

End at: 2018-02-13 04:41:49

Below is generated by plot.py at 2018-02-13 09:26:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 452.88 Mbit/s

95th percentile per-packet one-way delay: 50.945 ms

Loss rate: 0.48%

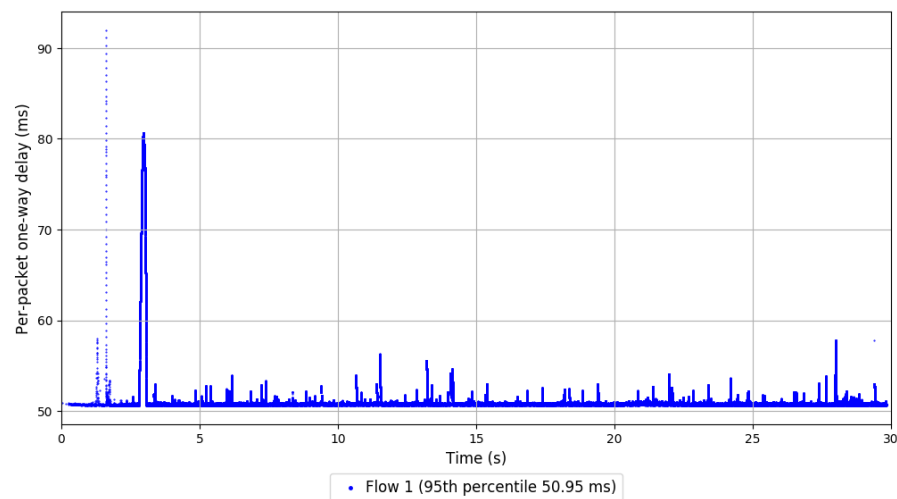
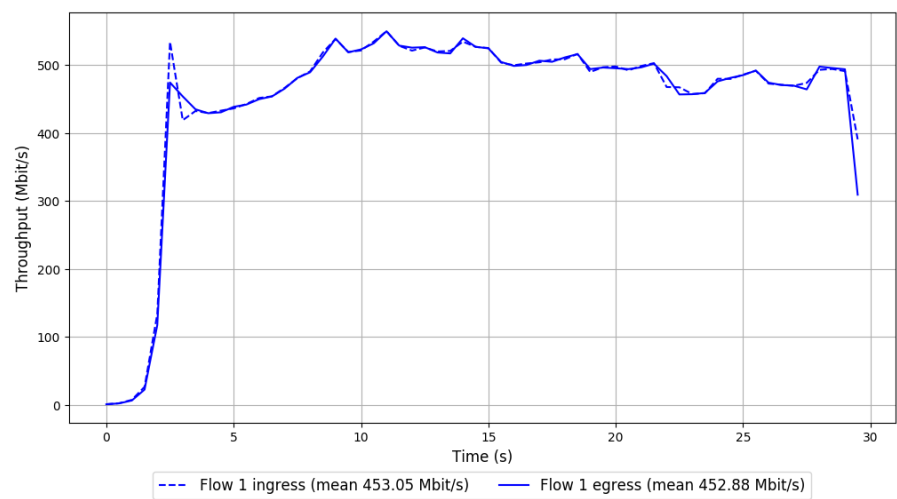
-- Flow 1:

Average throughput: 452.88 Mbit/s

95th percentile per-packet one-way delay: 50.945 ms

Loss rate: 0.48%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-13 04:56:06

End at: 2018-02-13 04:56:36

Below is generated by plot.py at 2018-02-13 09:26:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 438.79 Mbit/s

95th percentile per-packet one-way delay: 49.551 ms

Loss rate: 0.39%

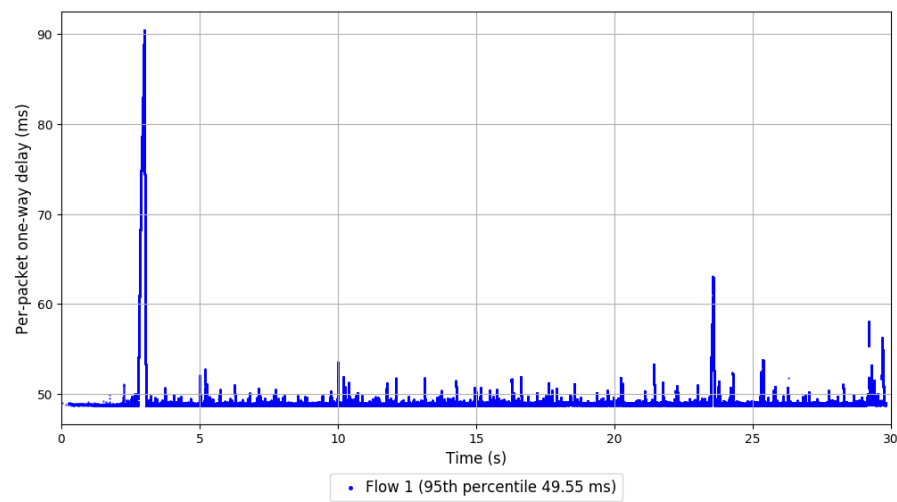
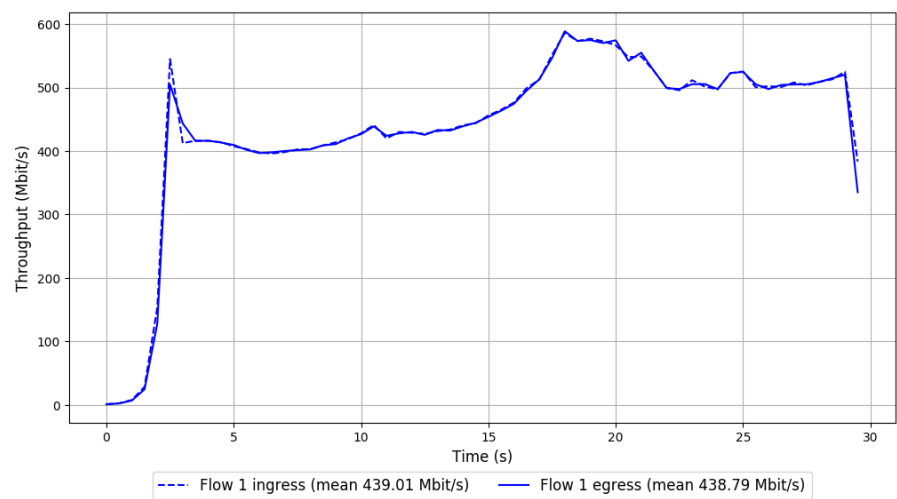
-- Flow 1:

Average throughput: 438.79 Mbit/s

95th percentile per-packet one-way delay: 49.551 ms

Loss rate: 0.39%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-13 05:10:47

End at: 2018-02-13 05:11:17

Below is generated by plot.py at 2018-02-13 09:29:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 473.96 Mbit/s

95th percentile per-packet one-way delay: 51.317 ms

Loss rate: 0.41%

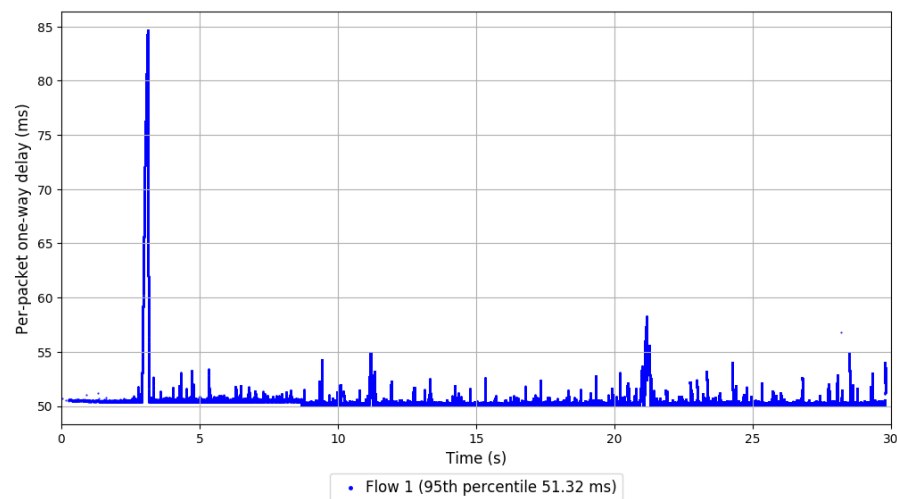
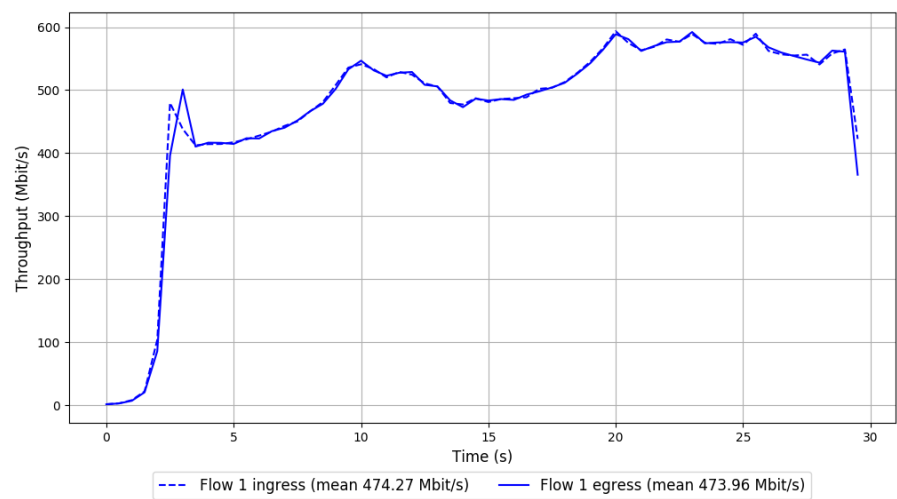
-- Flow 1:

Average throughput: 473.96 Mbit/s

95th percentile per-packet one-way delay: 51.317 ms

Loss rate: 0.41%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-13 05:25:40

End at: 2018-02-13 05:26:10

Below is generated by plot.py at 2018-02-13 09:29:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.17 Mbit/s

95th percentile per-packet one-way delay: 50.611 ms

Loss rate: 0.35%

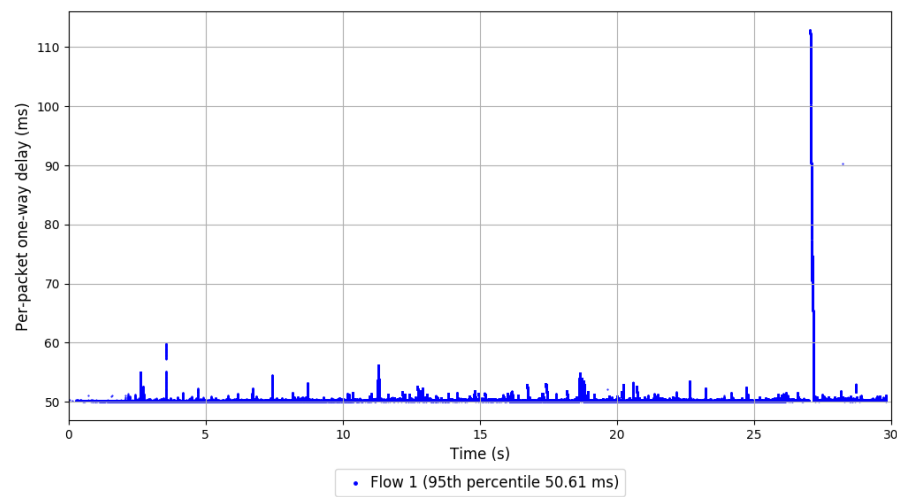
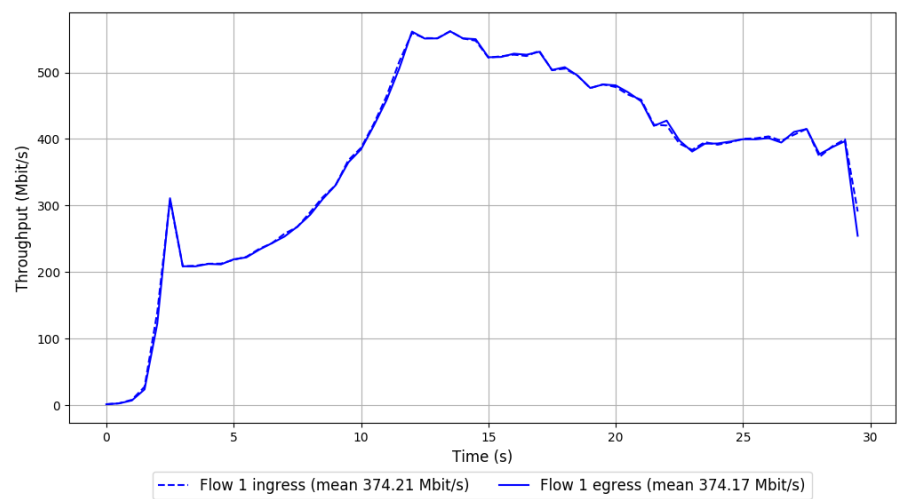
-- Flow 1:

Average throughput: 374.17 Mbit/s

95th percentile per-packet one-way delay: 50.611 ms

Loss rate: 0.35%

Run 10: Report of Vivace-latency — Data Link

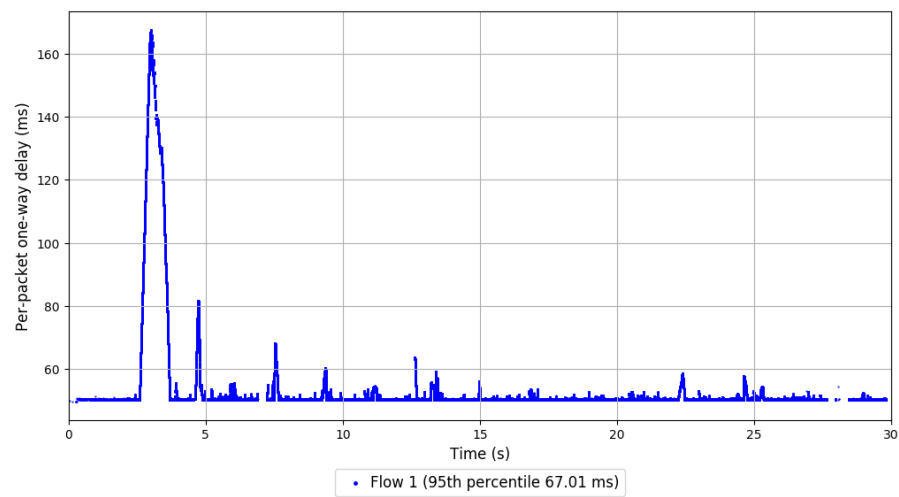
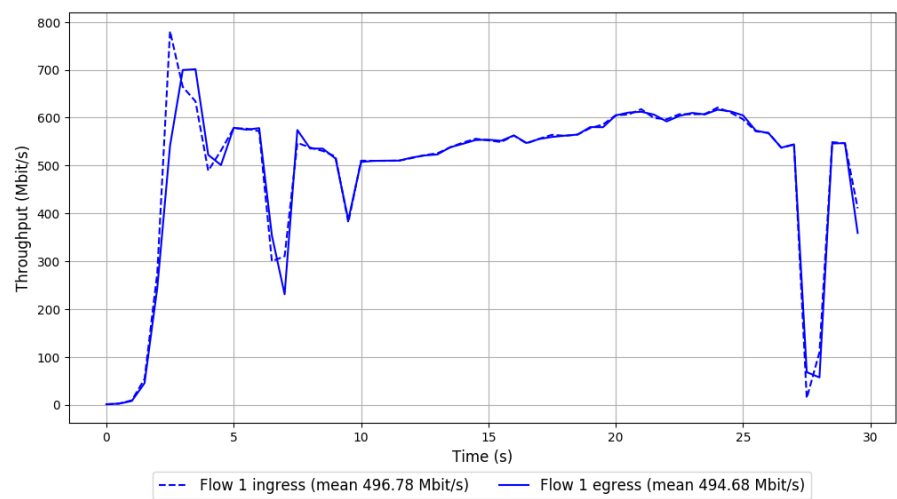


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-13 03:14:06
End at: 2018-02-13 03:14:36

# Below is generated by plot.py at 2018-02-13 09:29:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 494.68 Mbit/s
95th percentile per-packet one-way delay: 67.010 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 494.68 Mbit/s
95th percentile per-packet one-way delay: 67.010 ms
Loss rate: 0.75%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-13 03:28:56

End at: 2018-02-13 03:29:26

Below is generated by plot.py at 2018-02-13 09:29:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 443.57 Mbit/s

95th percentile per-packet one-way delay: 151.308 ms

Loss rate: 0.81%

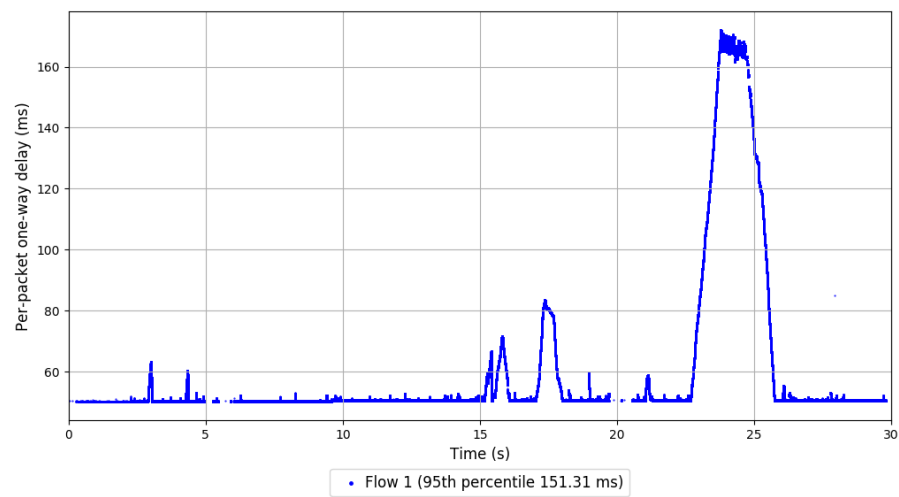
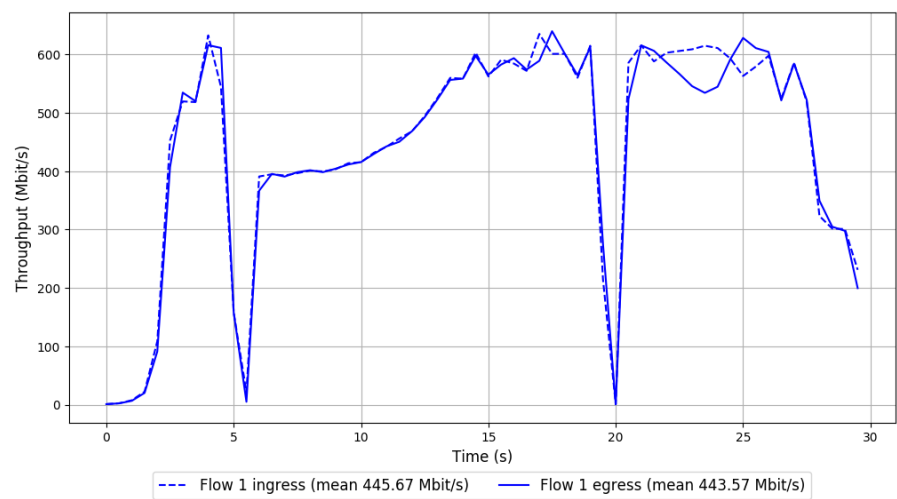
-- Flow 1:

Average throughput: 443.57 Mbit/s

95th percentile per-packet one-way delay: 151.308 ms

Loss rate: 0.81%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-13 03:43:43

End at: 2018-02-13 03:44:13

Below is generated by plot.py at 2018-02-13 09:30:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 485.59 Mbit/s

95th percentile per-packet one-way delay: 152.134 ms

Loss rate: 1.05%

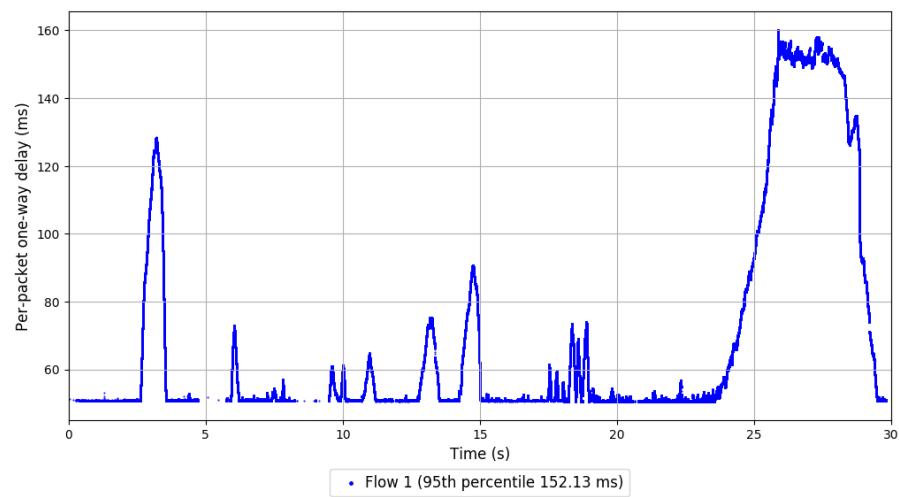
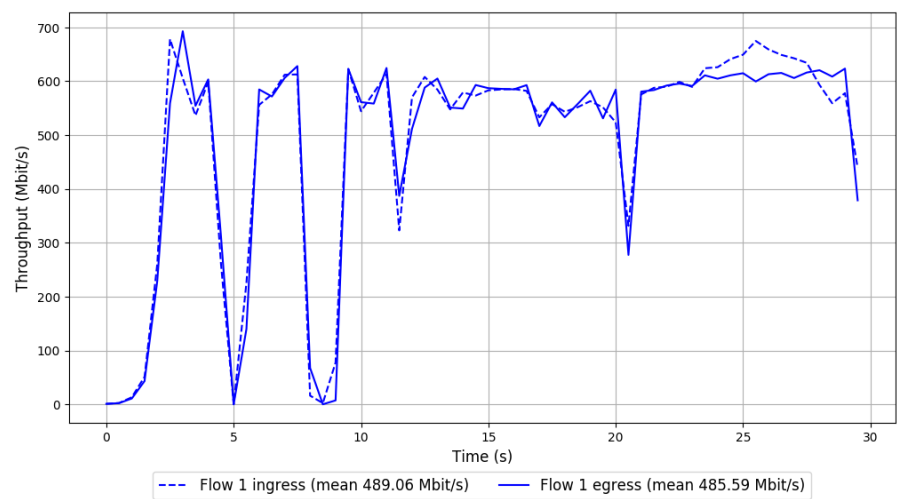
-- Flow 1:

Average throughput: 485.59 Mbit/s

95th percentile per-packet one-way delay: 152.134 ms

Loss rate: 1.05%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-13 03:58:32

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

Below is generated by plot.py at 2018-02-13 09:30:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 456.56 Mbit/s

95th percentile per-packet one-way delay: 165.423 ms

Loss rate: 2.31%

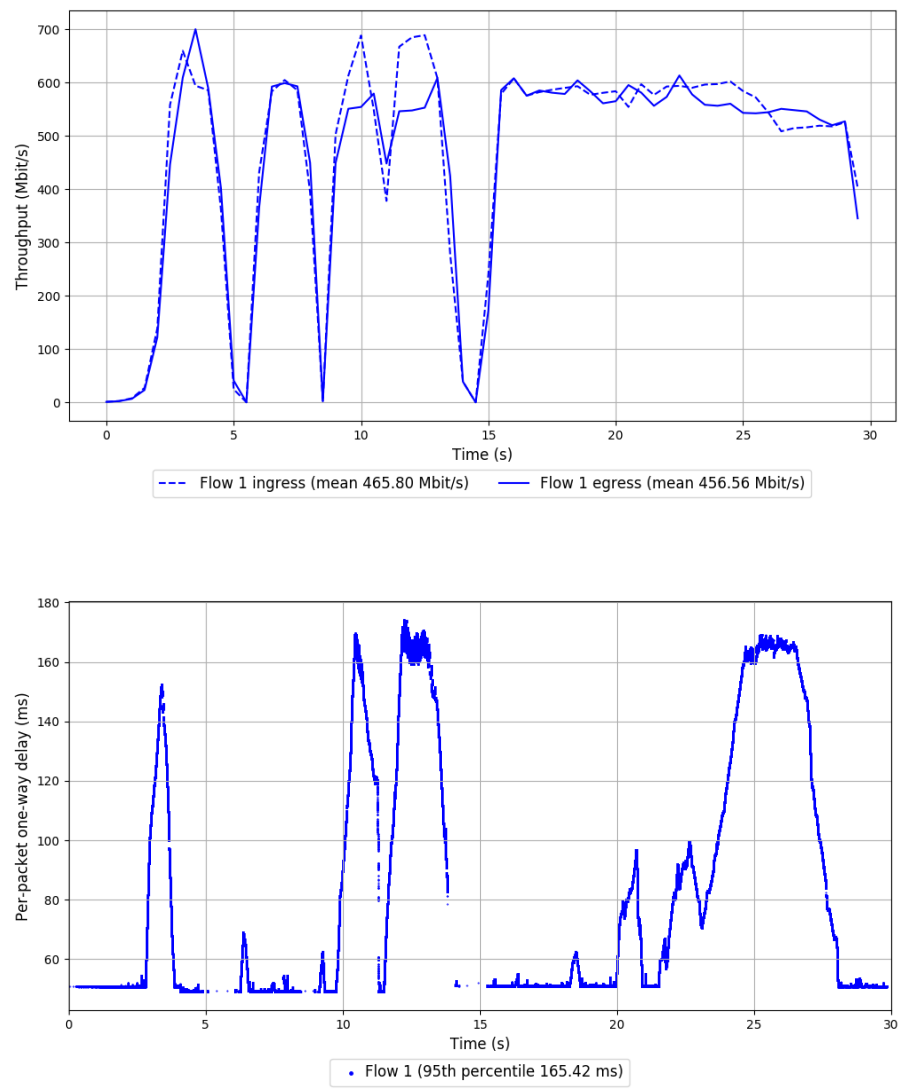
-- Flow 1:

Average throughput: 456.56 Mbit/s

95th percentile per-packet one-way delay: 165.423 ms

Loss rate: 2.31%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-13 04:13:13

End at: 2018-02-13 04:13:43

Below is generated by plot.py at 2018-02-13 09:34:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 485.38 Mbit/s

95th percentile per-packet one-way delay: 49.992 ms

Loss rate: 0.19%

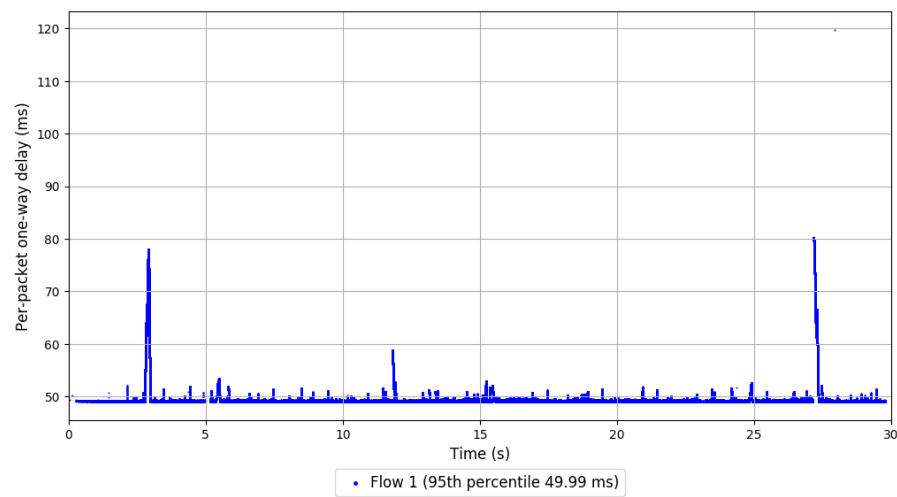
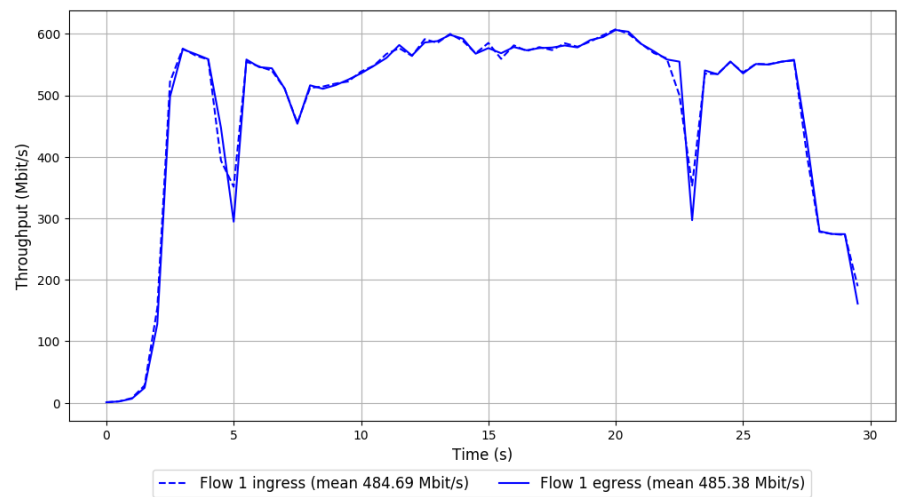
-- Flow 1:

Average throughput: 485.38 Mbit/s

95th percentile per-packet one-way delay: 49.992 ms

Loss rate: 0.19%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-13 04:28:02

End at: 2018-02-13 04:28:32

Below is generated by plot.py at 2018-02-13 09:34:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 475.15 Mbit/s

95th percentile per-packet one-way delay: 51.134 ms

Loss rate: 0.41%

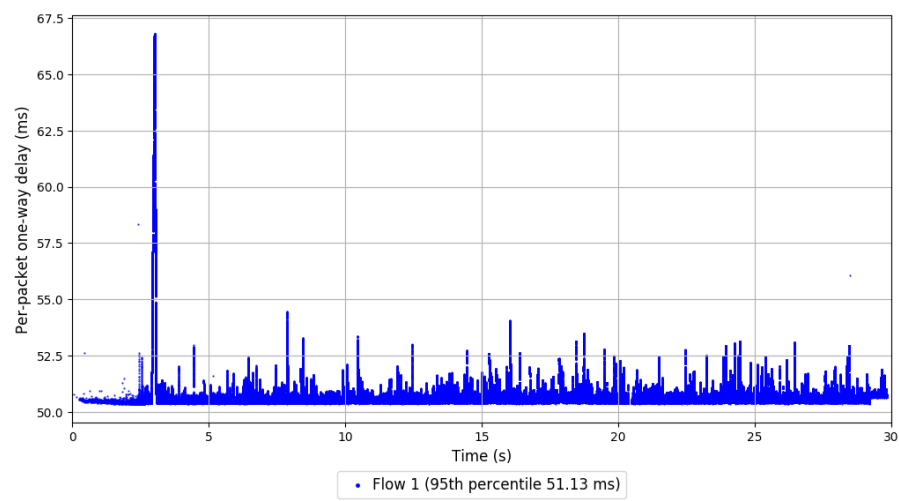
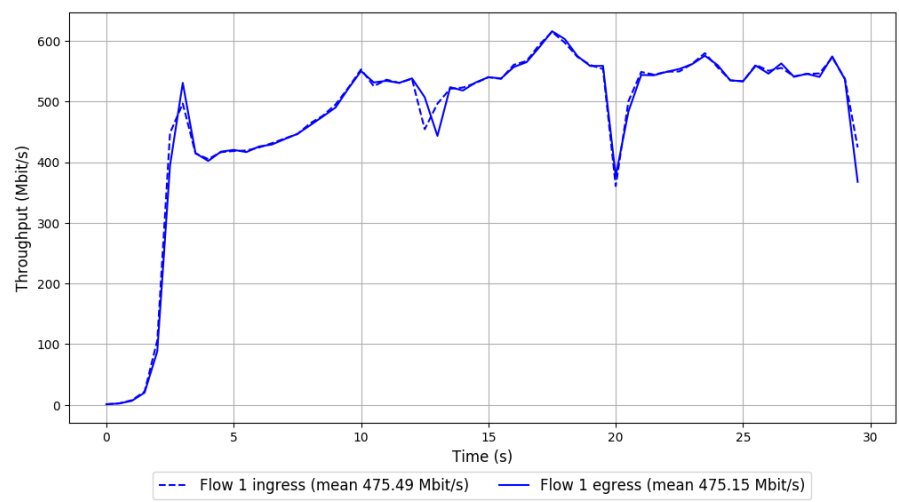
-- Flow 1:

Average throughput: 475.15 Mbit/s

95th percentile per-packet one-way delay: 51.134 ms

Loss rate: 0.41%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-13 04:43:08

End at: 2018-02-13 04:43:38

Below is generated by plot.py at 2018-02-13 09:34:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 450.87 Mbit/s

95th percentile per-packet one-way delay: 142.147 ms

Loss rate: 1.24%

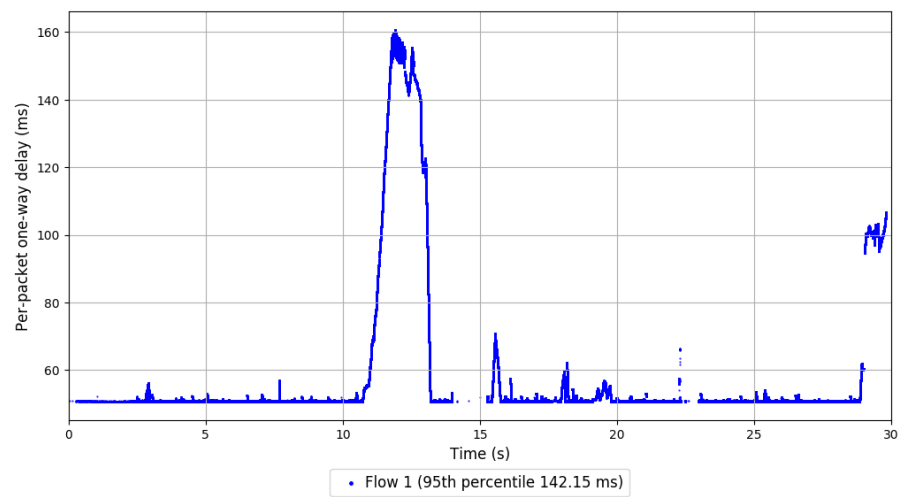
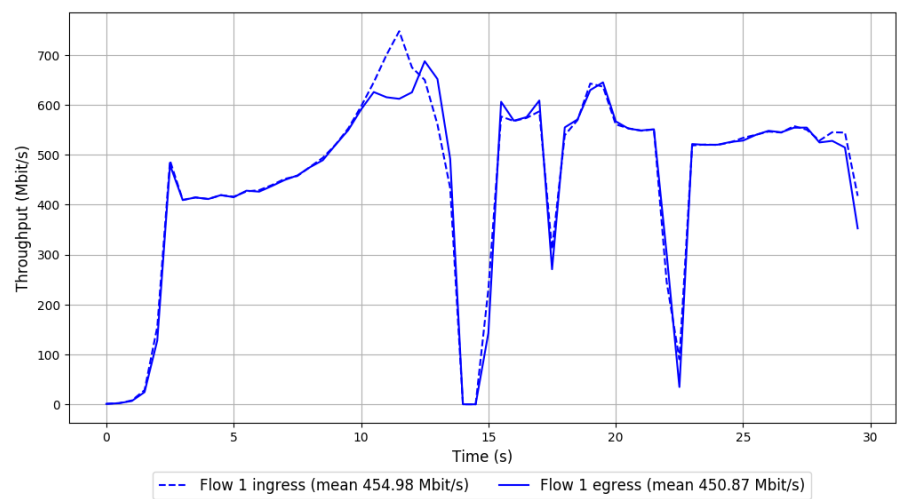
-- Flow 1:

Average throughput: 450.87 Mbit/s

95th percentile per-packet one-way delay: 142.147 ms

Loss rate: 1.24%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-13 04:57:53

End at: 2018-02-13 04:58:23

Below is generated by plot.py at 2018-02-13 09:35:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 409.97 Mbit/s

95th percentile per-packet one-way delay: 148.493 ms

Loss rate: 2.34%

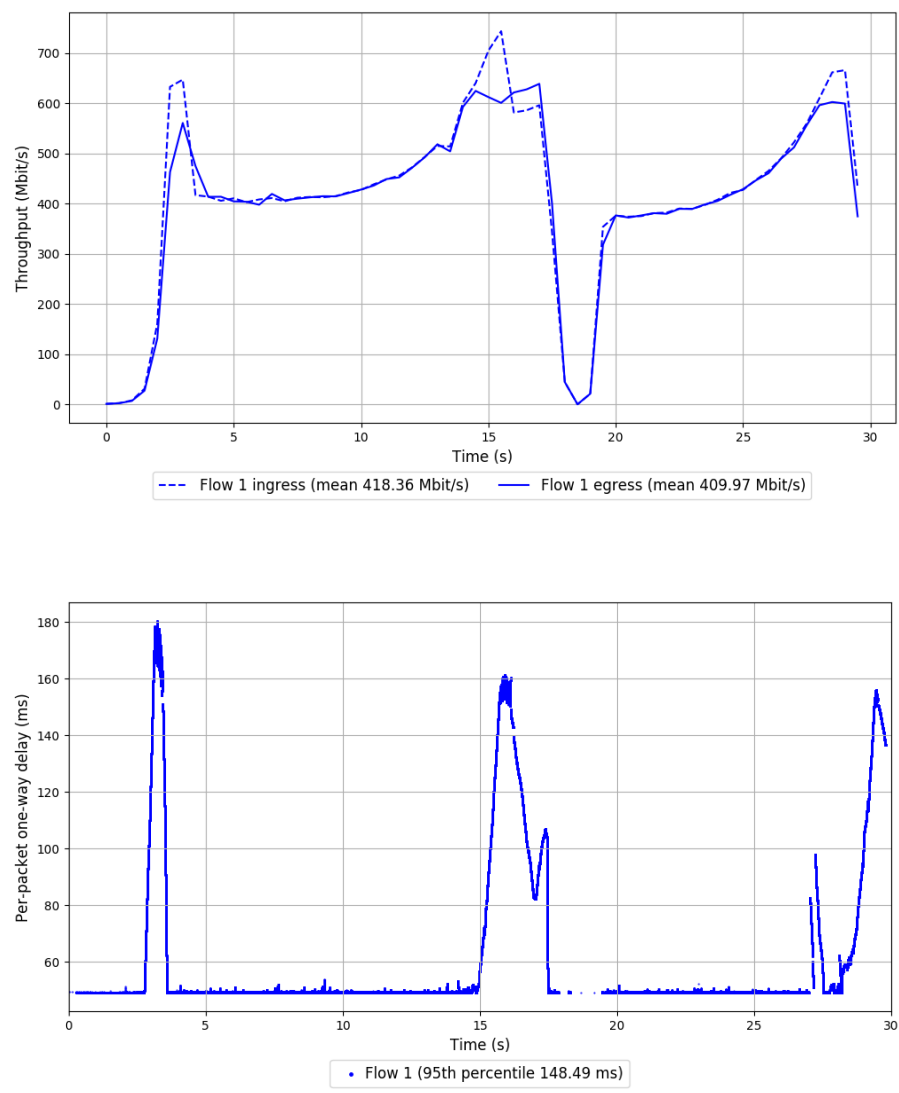
-- Flow 1:

Average throughput: 409.97 Mbit/s

95th percentile per-packet one-way delay: 148.493 ms

Loss rate: 2.34%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-13 05:12:37

End at: 2018-02-13 05:13:07

Below is generated by plot.py at 2018-02-13 09:37:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 496.06 Mbit/s

95th percentile per-packet one-way delay: 160.828 ms

Loss rate: 1.86%

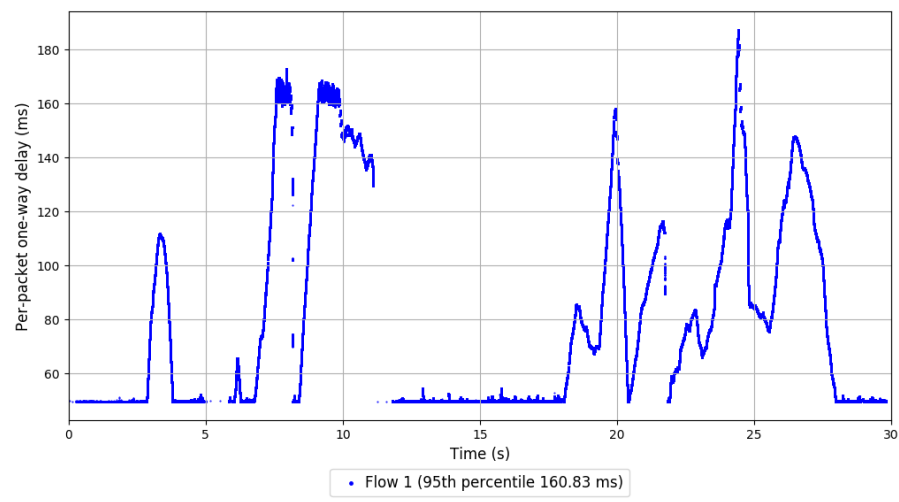
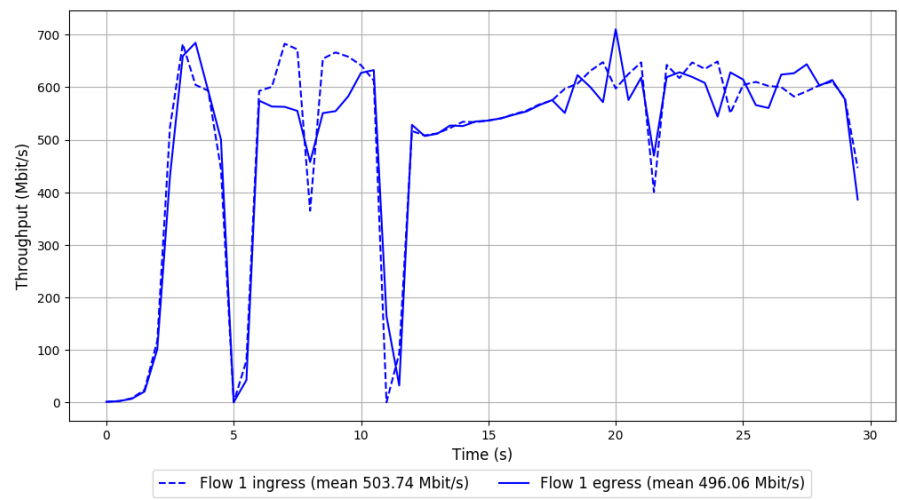
-- Flow 1:

Average throughput: 496.06 Mbit/s

95th percentile per-packet one-way delay: 160.828 ms

Loss rate: 1.86%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-13 05:27:23

End at: 2018-02-13 05:27:53

Below is generated by plot.py at 2018-02-13 09:37:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 473.54 Mbit/s

95th percentile per-packet one-way delay: 165.684 ms

Loss rate: 2.27%

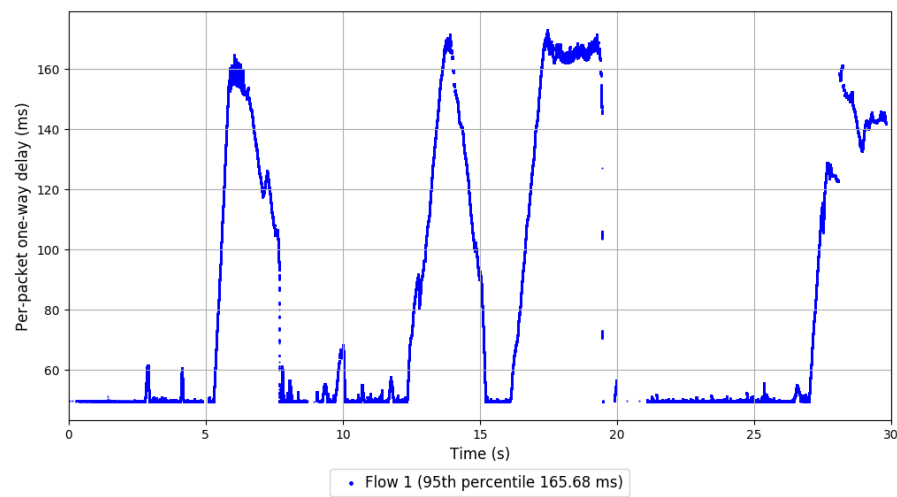
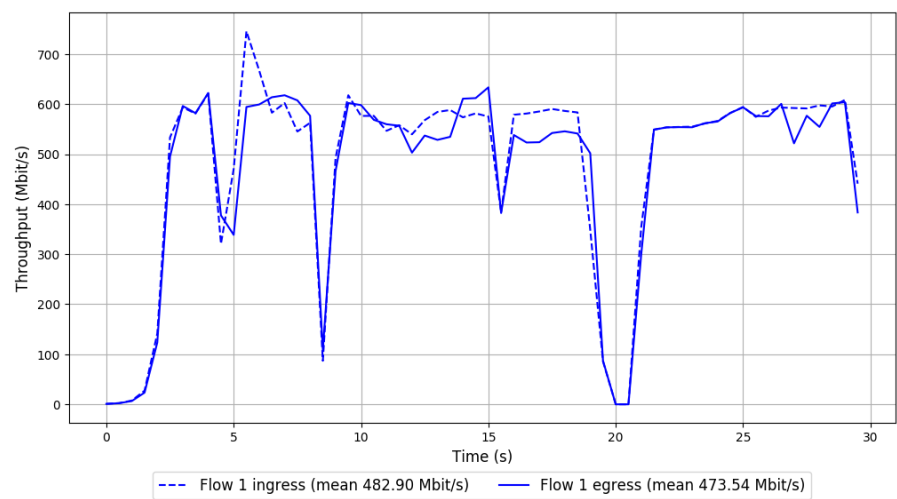
-- Flow 1:

Average throughput: 473.54 Mbit/s

95th percentile per-packet one-way delay: 165.684 ms

Loss rate: 2.27%

Run 10: Report of Vivace-loss — Data Link

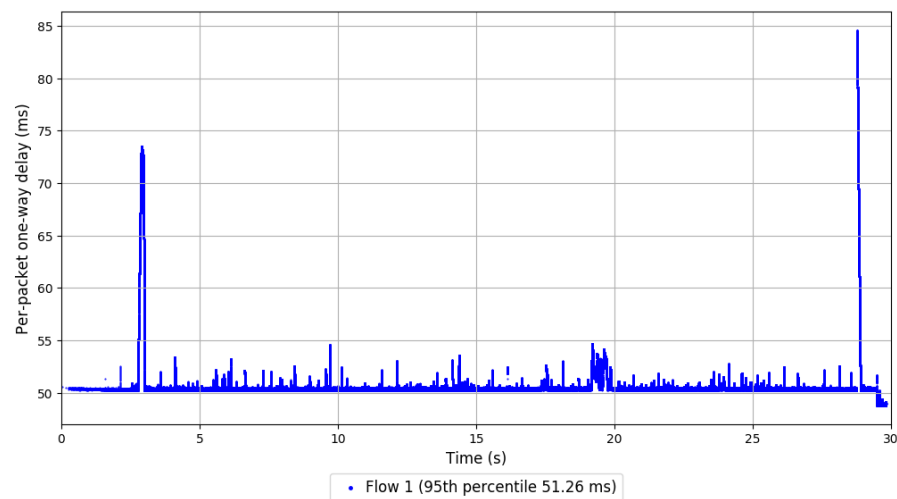
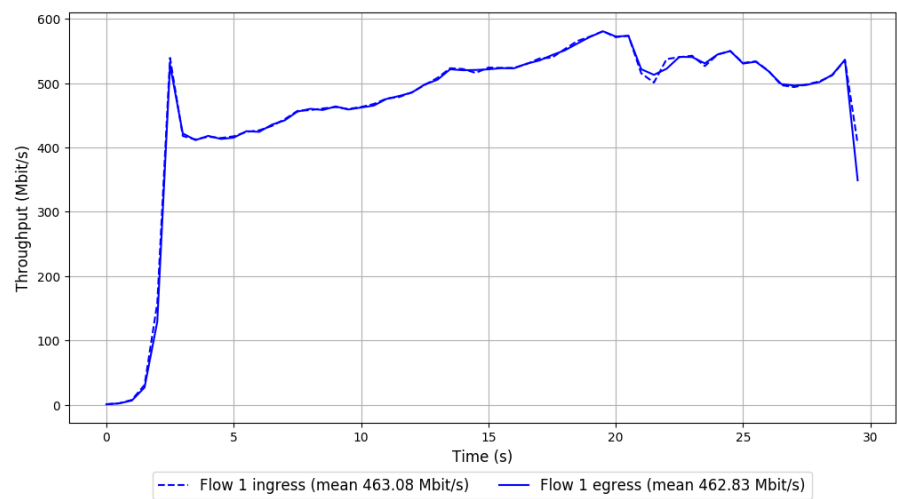


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-13 03:17:57
End at: 2018-02-13 03:18:27

# Below is generated by plot.py at 2018-02-13 09:37:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 462.83 Mbit/s
95th percentile per-packet one-way delay: 51.262 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 462.83 Mbit/s
95th percentile per-packet one-way delay: 51.262 ms
Loss rate: 0.39%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-13 03:32:44

End at: 2018-02-13 03:33:14

Below is generated by plot.py at 2018-02-13 09:38:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 452.27 Mbit/s

95th percentile per-packet one-way delay: 51.488 ms

Loss rate: 0.41%

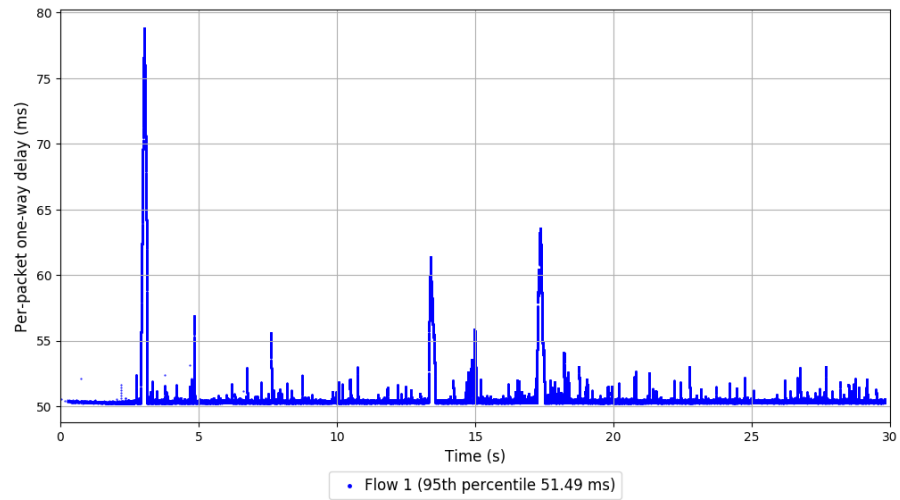
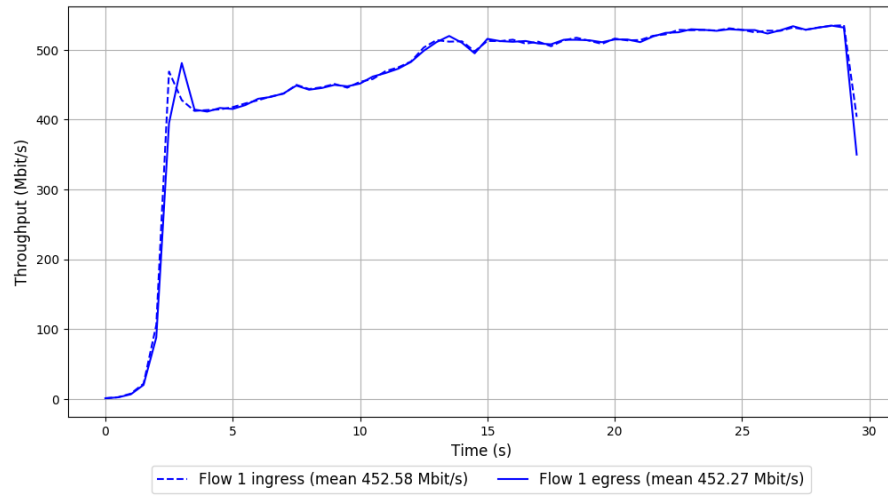
-- Flow 1:

Average throughput: 452.27 Mbit/s

95th percentile per-packet one-way delay: 51.488 ms

Loss rate: 0.41%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-13 03:47:32

End at: 2018-02-13 03:48:02

Below is generated by plot.py at 2018-02-13 09:41:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 454.37 Mbit/s

95th percentile per-packet one-way delay: 50.891 ms

Loss rate: 0.42%

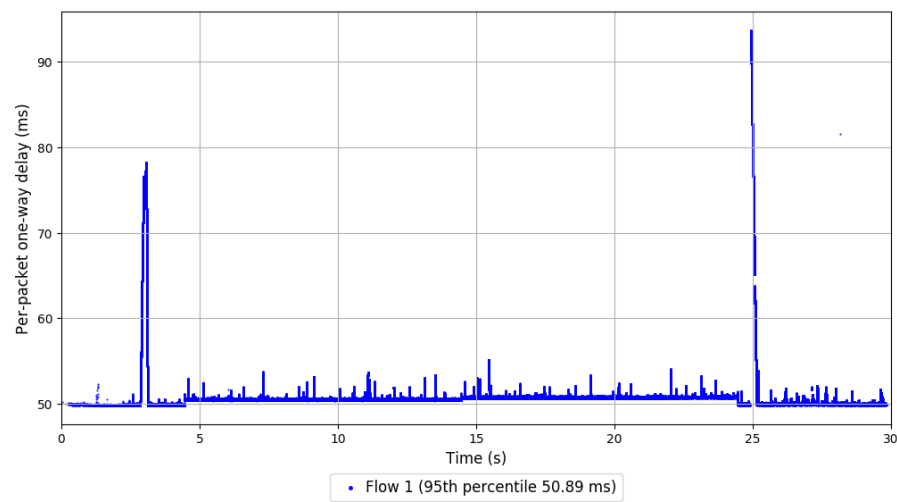
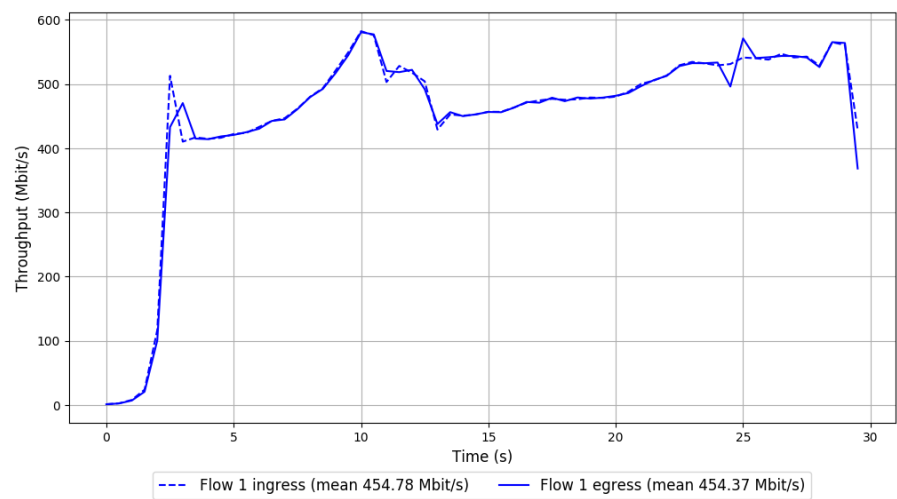
-- Flow 1:

Average throughput: 454.37 Mbit/s

95th percentile per-packet one-way delay: 50.891 ms

Loss rate: 0.42%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-13 04:02:16

End at: 2018-02-13 04:02:46

Below is generated by plot.py at 2018-02-13 09:41:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 477.25 Mbit/s

95th percentile per-packet one-way delay: 81.711 ms

Loss rate: 0.47%

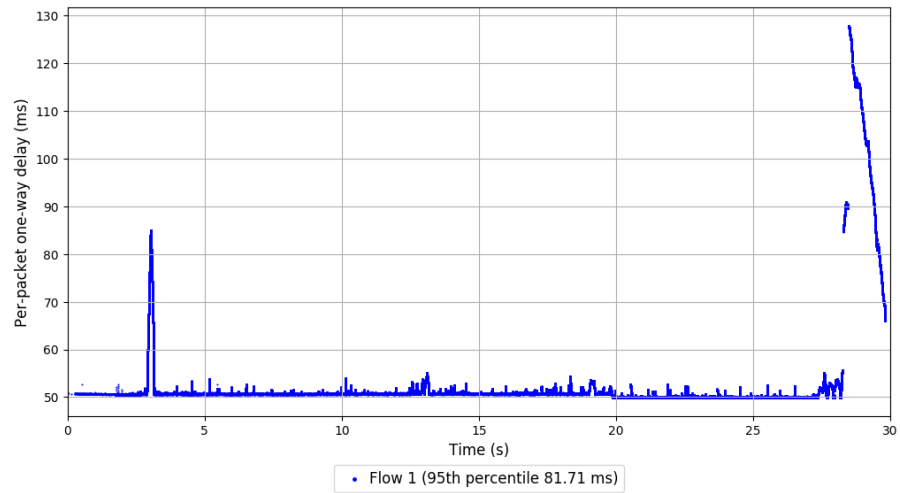
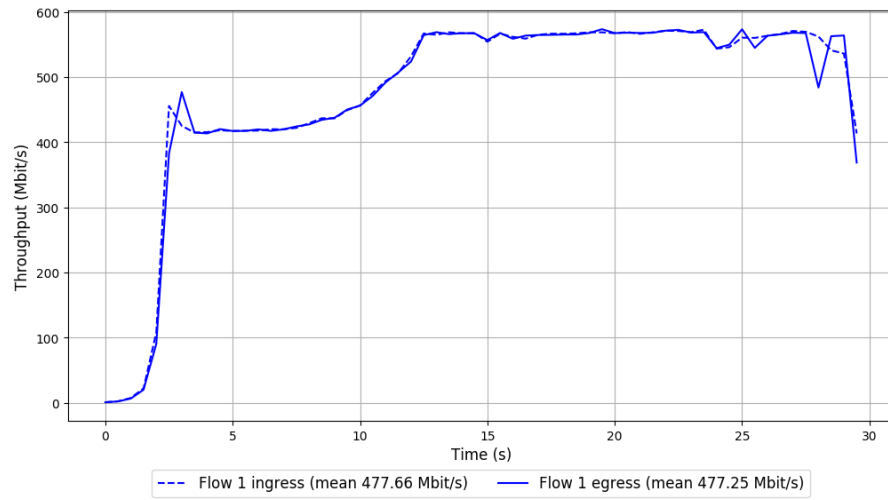
-- Flow 1:

Average throughput: 477.25 Mbit/s

95th percentile per-packet one-way delay: 81.711 ms

Loss rate: 0.47%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-13 04:17:03

End at: 2018-02-13 04:17:33

Below is generated by plot.py at 2018-02-13 09:41:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 476.81 Mbit/s

95th percentile per-packet one-way delay: 51.030 ms

Loss rate: 0.45%

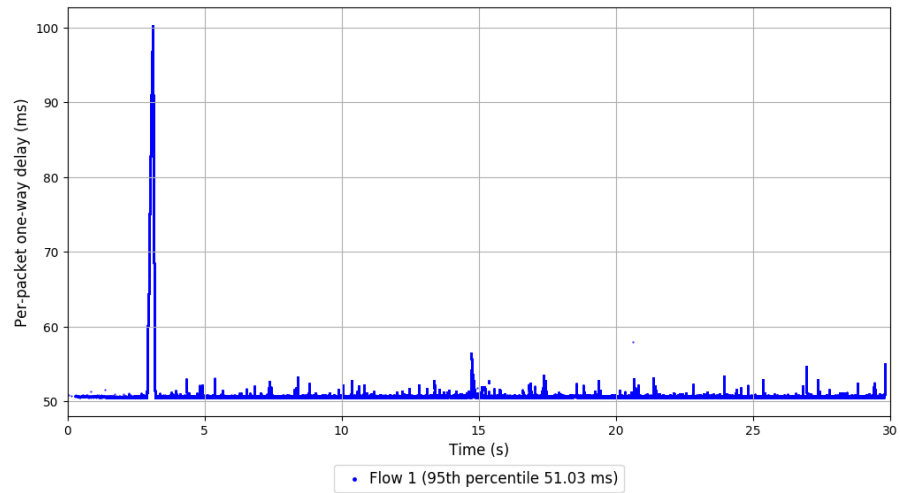
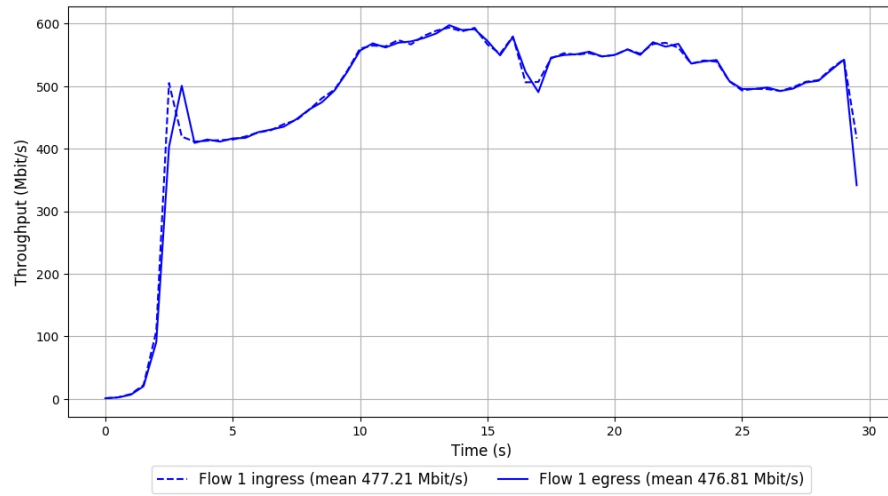
-- Flow 1:

Average throughput: 476.81 Mbit/s

95th percentile per-packet one-way delay: 51.030 ms

Loss rate: 0.45%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-13 04:32:06

End at: 2018-02-13 04:32:36

Below is generated by plot.py at 2018-02-13 09:42:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 479.77 Mbit/s

95th percentile per-packet one-way delay: 50.553 ms

Loss rate: 0.38%

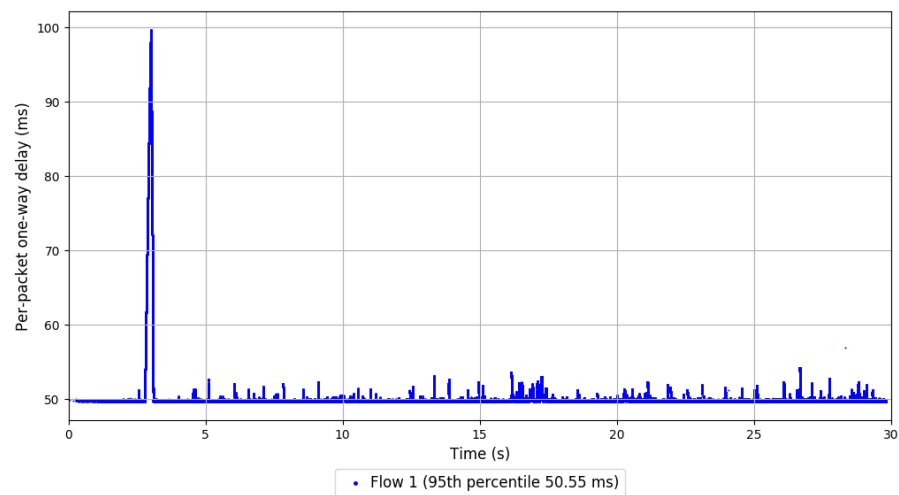
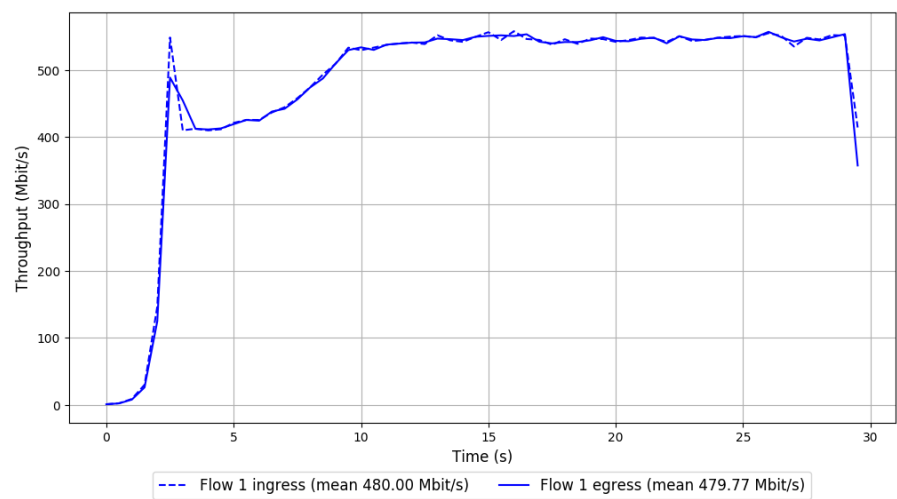
-- Flow 1:

Average throughput: 479.77 Mbit/s

95th percentile per-packet one-way delay: 50.553 ms

Loss rate: 0.38%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-13 04:46:54

End at: 2018-02-13 04:47:24

Below is generated by plot.py at 2018-02-13 09:43:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 473.98 Mbit/s

95th percentile per-packet one-way delay: 51.156 ms

Loss rate: 0.39%

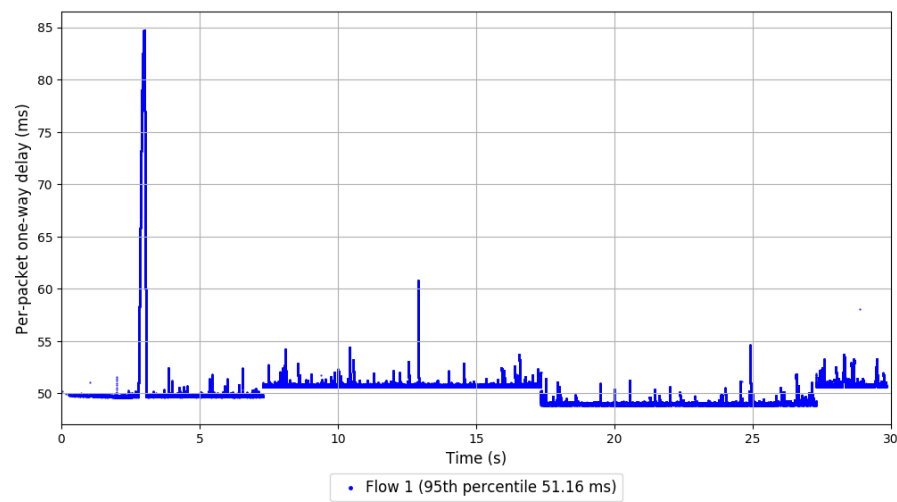
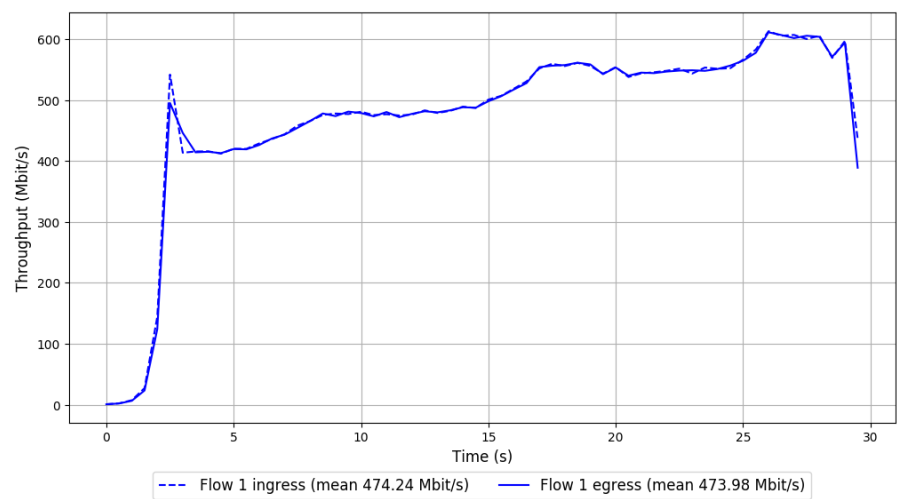
-- Flow 1:

Average throughput: 473.98 Mbit/s

95th percentile per-packet one-way delay: 51.156 ms

Loss rate: 0.39%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-13 05:01:39

End at: 2018-02-13 05:02:09

Below is generated by plot.py at 2018-02-13 09:44:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 491.88 Mbit/s

95th percentile per-packet one-way delay: 51.029 ms

Loss rate: 0.31%

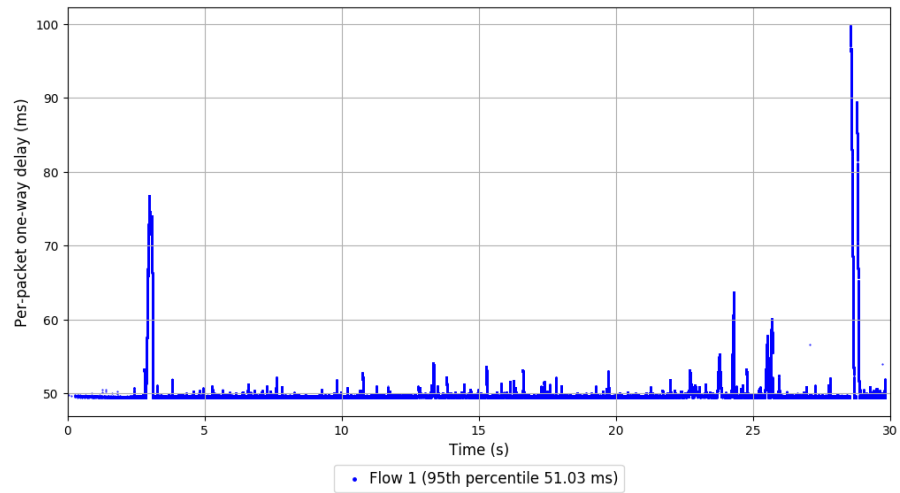
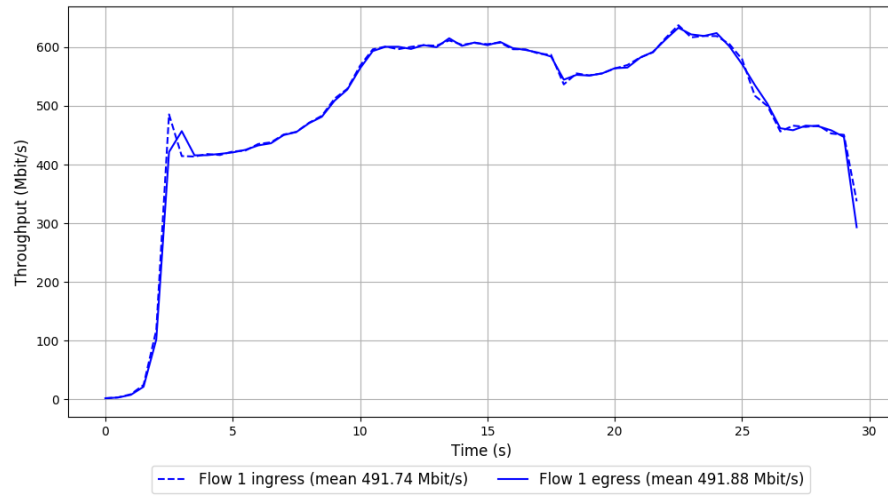
-- Flow 1:

Average throughput: 491.88 Mbit/s

95th percentile per-packet one-way delay: 51.029 ms

Loss rate: 0.31%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-13 05:16:25

End at: 2018-02-13 05:16:55

Below is generated by plot.py at 2018-02-13 09:44:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 487.95 Mbit/s

95th percentile per-packet one-way delay: 51.994 ms

Loss rate: 0.19%

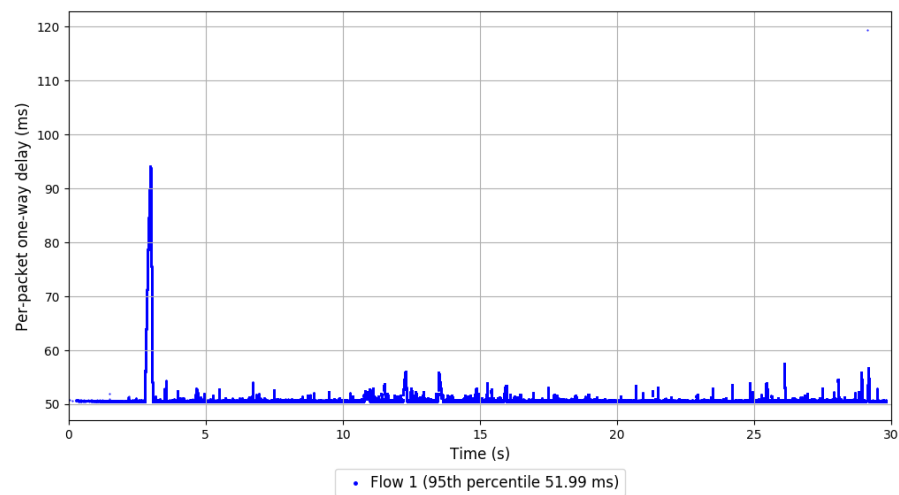
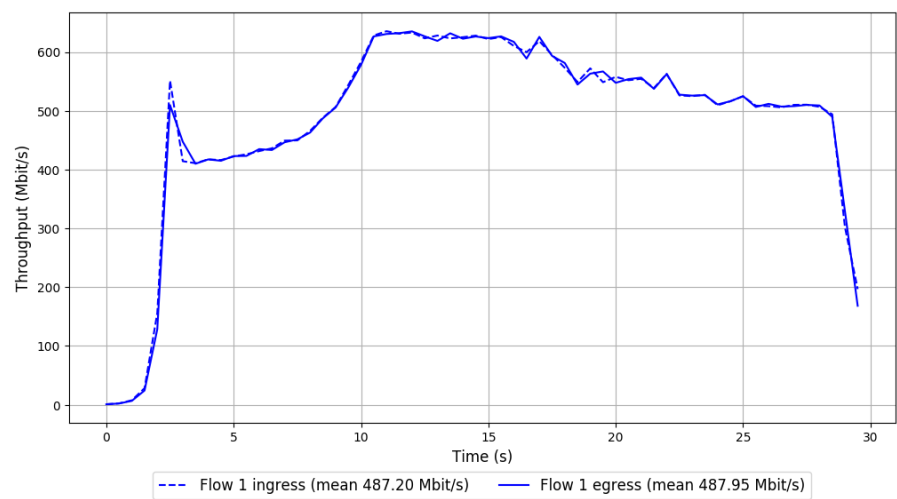
-- Flow 1:

Average throughput: 487.95 Mbit/s

95th percentile per-packet one-way delay: 51.994 ms

Loss rate: 0.19%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-02-13 05:31:13
End at: 2018-02-13 05:31:43

# Below is generated by plot.py at 2018-02-13 09:44:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 471.02 Mbit/s
95th percentile per-packet one-way delay: 51.027 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 471.02 Mbit/s
95th percentile per-packet one-way delay: 51.027 ms
Loss rate: 0.37%
```

Run 10: Report of Vivace-LTE — Data Link

