

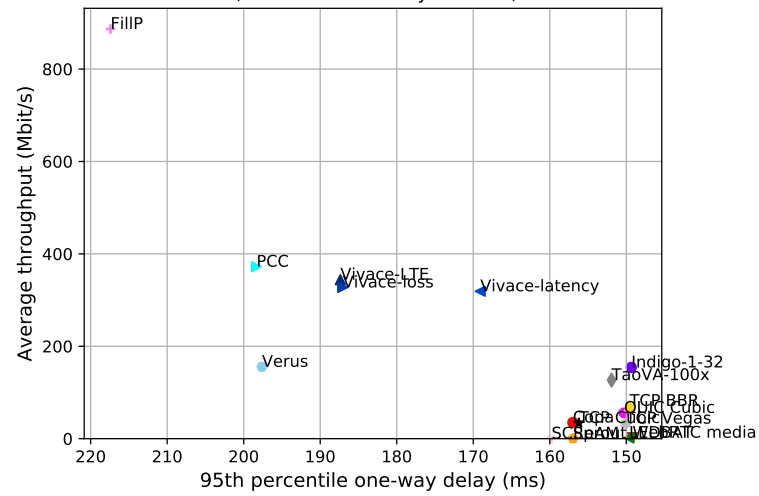
Pantheon Report

Generated at 2018-02-13 18:36:59 (UTC).
Data path: GCE Sydney Ethernet (*local*) → GCE London Ethernet (*remote*).
Repeated the test of 17 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

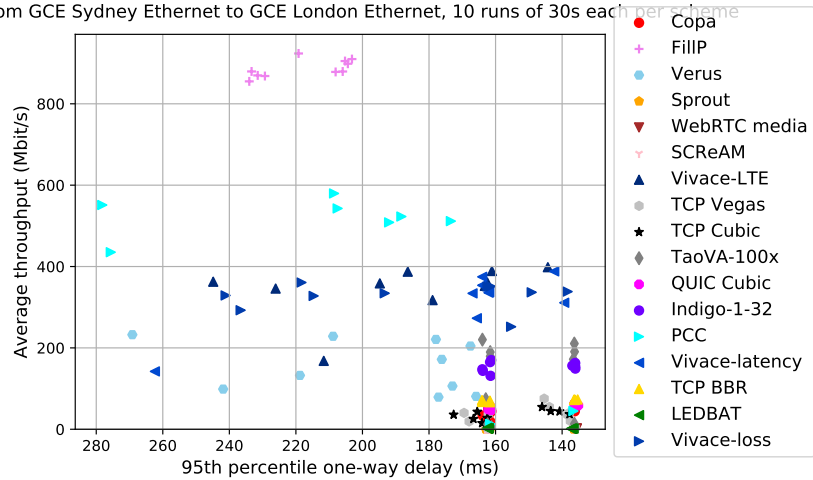
Git summary:

```
branch: master @ 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 Sydney Ethernet to GCE London Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	70.92	149.58	0.20
TCP Cubic	10	34.01	156.20	0.80
LEDBAT	10	1.78	149.64	0.36
PCC	10	372.17	198.33	1.44
QUIC Cubic	9	55.89	150.30	0.02
SCReAM	10	0.20	159.78	0.03
WebRTC media	10	2.08	149.20	0.01
Sprout	10	0.31	156.97	0.00
TaoVA-100x	10	126.75	151.93	0.05
TCP Vegas	10	32.63	150.08	0.39
Verus	10	155.53	197.62	1.18
Copa	10	35.06	156.98	0.01
FillP	10	886.77	217.41	2.63
Indigo-1-32	10	154.14	149.35	0.31
Vivace-latency	10	319.04	169.09	0.45
Vivace-loss	10	327.32	187.06	0.14
Vivace-LTE	10	344.11	187.37	0.40

Run 1: Statistics of TCP BBR

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

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

Below is generated by plot.py at 2018-02-13 17:31:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.53 Mbit/s

95th percentile per-packet one-way delay: 164.075 ms

Loss rate: 0.15%

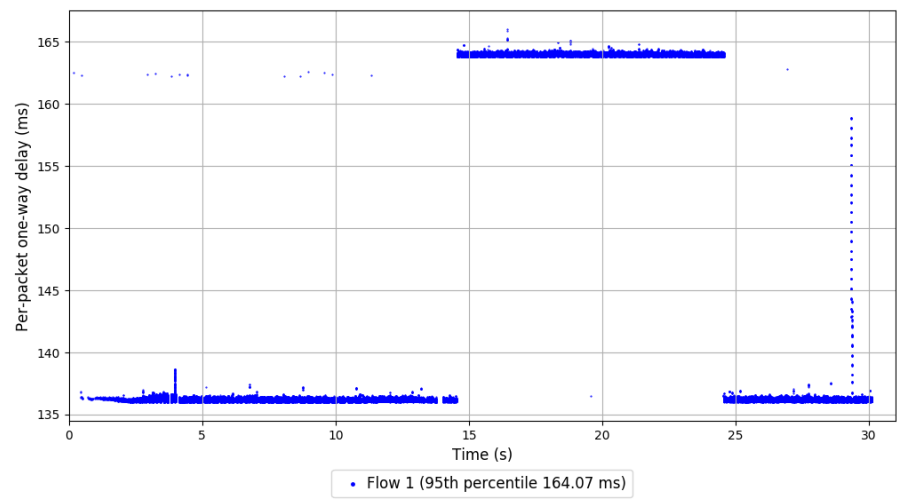
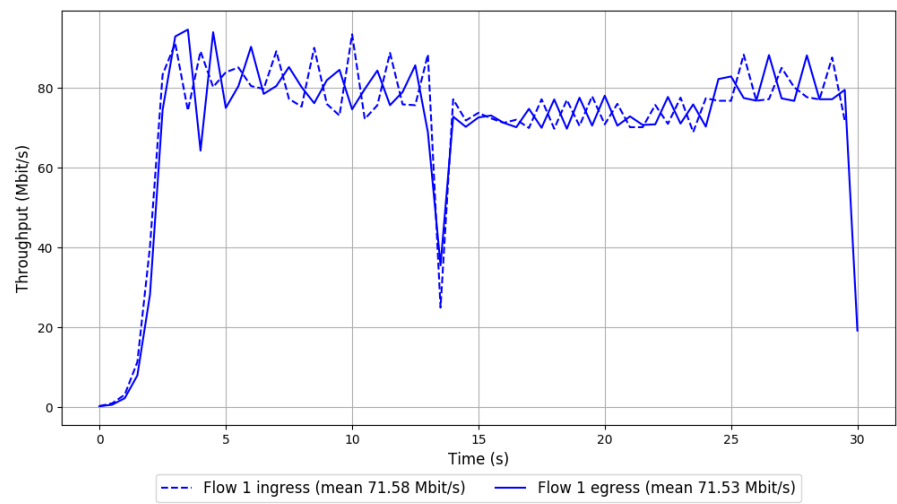
-- Flow 1:

Average throughput: 71.53 Mbit/s

95th percentile per-packet one-way delay: 164.075 ms

Loss rate: 0.15%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-13 13:59:54

End at: 2018-02-13 14:00:24

Below is generated by plot.py at 2018-02-13 17:31:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.55 Mbit/s

95th percentile per-packet one-way delay: 163.998 ms

Loss rate: 0.01%

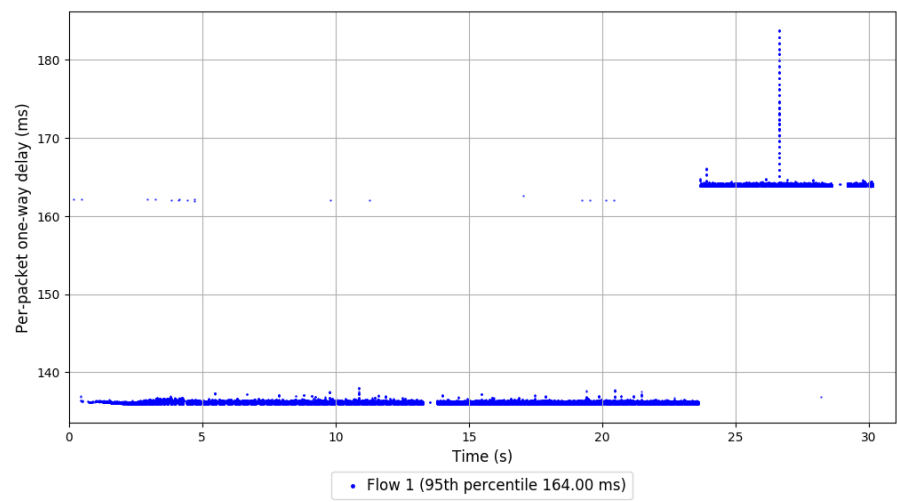
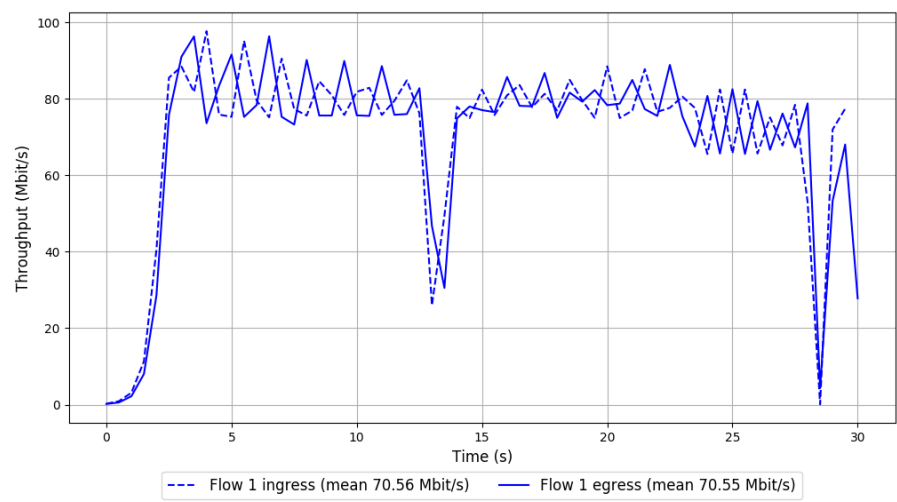
-- Flow 1:

Average throughput: 70.55 Mbit/s

95th percentile per-packet one-way delay: 163.998 ms

Loss rate: 0.01%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-13 14:15:48

End at: 2018-02-13 14:16:18

Below is generated by plot.py at 2018-02-13 17:31:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.18 Mbit/s

95th percentile per-packet one-way delay: 163.994 ms

Loss rate: 0.12%

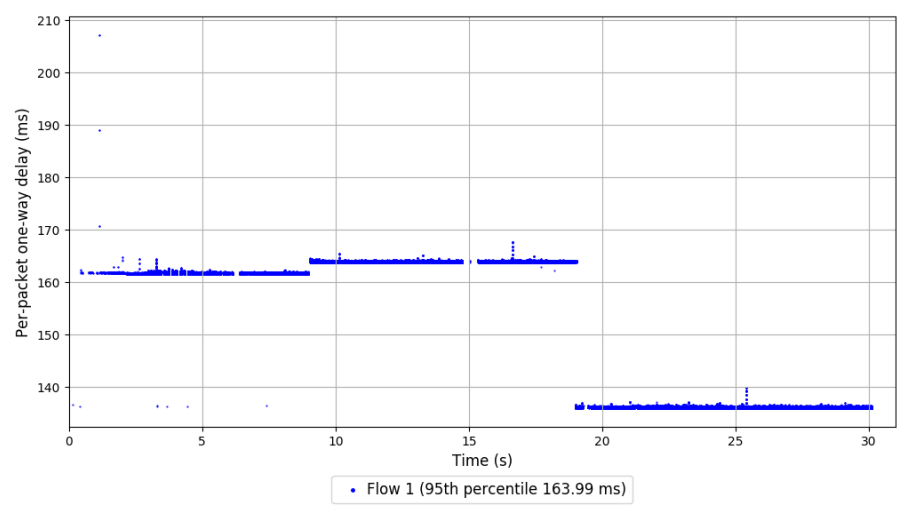
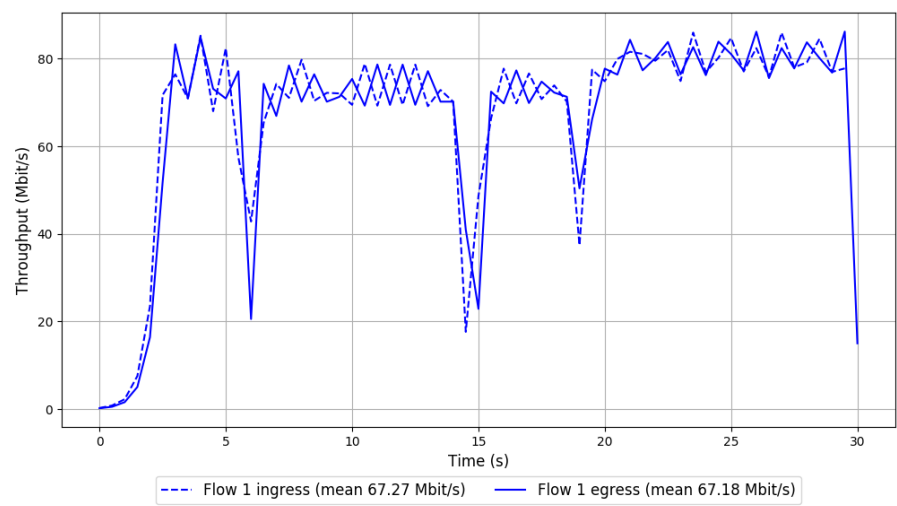
-- Flow 1:

Average throughput: 67.18 Mbit/s

95th percentile per-packet one-way delay: 163.994 ms

Loss rate: 0.12%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-13 14:31:29

End at: 2018-02-13 14:31:59

Below is generated by plot.py at 2018-02-13 17:31:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.41 Mbit/s

95th percentile per-packet one-way delay: 161.686 ms

Loss rate: 0.71%

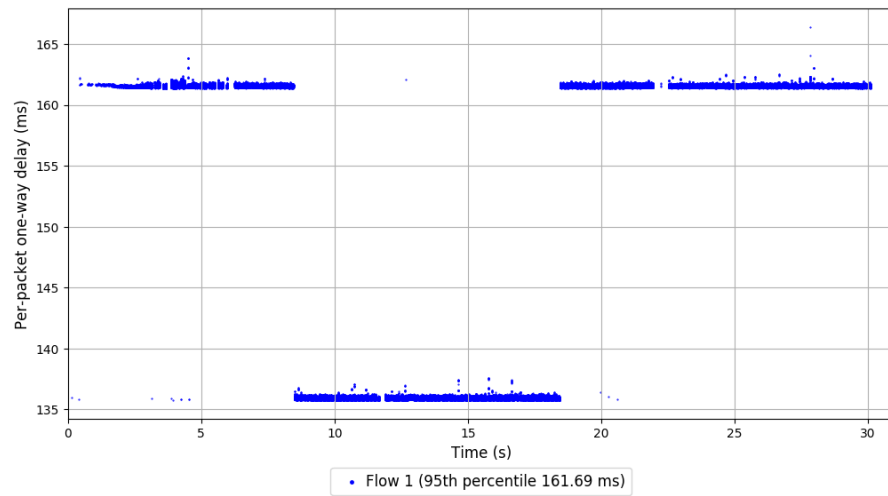
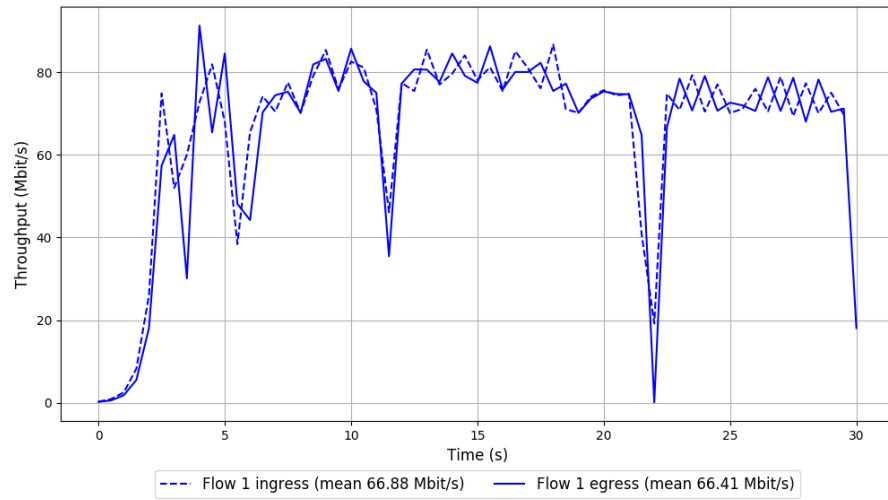
-- Flow 1:

Average throughput: 66.41 Mbit/s

95th percentile per-packet one-way delay: 161.686 ms

Loss rate: 0.71%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-13 14:47:36

End at: 2018-02-13 14:48:06

Below is generated by plot.py at 2018-02-13 17:31:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.88 Mbit/s

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

Loss rate: 0.15%

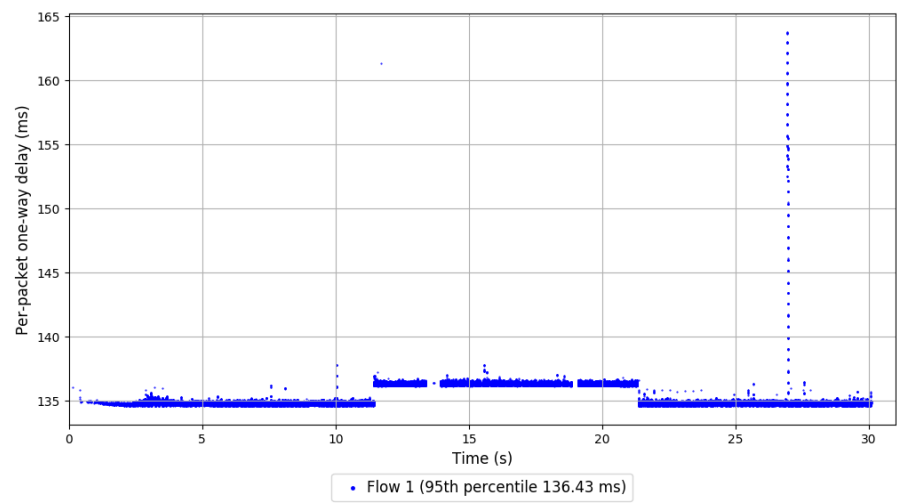
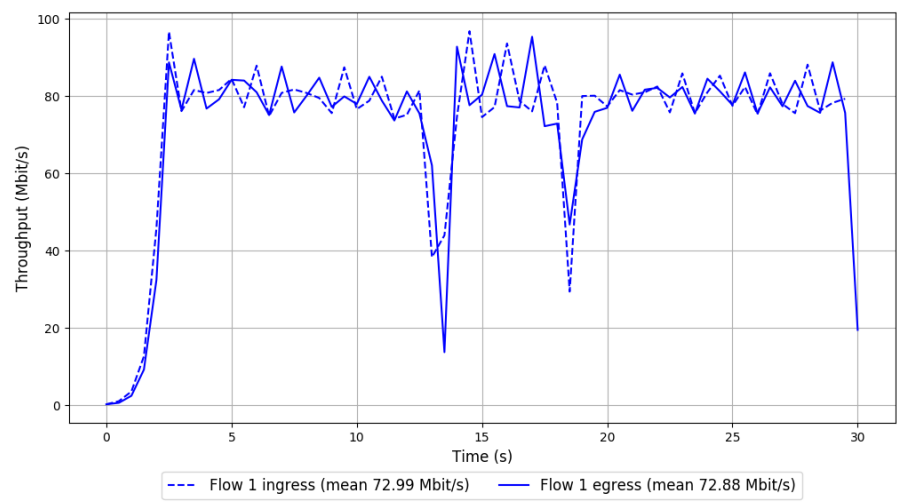
-- Flow 1:

Average throughput: 72.88 Mbit/s

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

Loss rate: 0.15%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-13 15:03:48

End at: 2018-02-13 15:04:18

Below is generated by plot.py at 2018-02-13 17:31:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.29 Mbit/s

95th percentile per-packet one-way delay: 135.334 ms

Loss rate: 0.00%

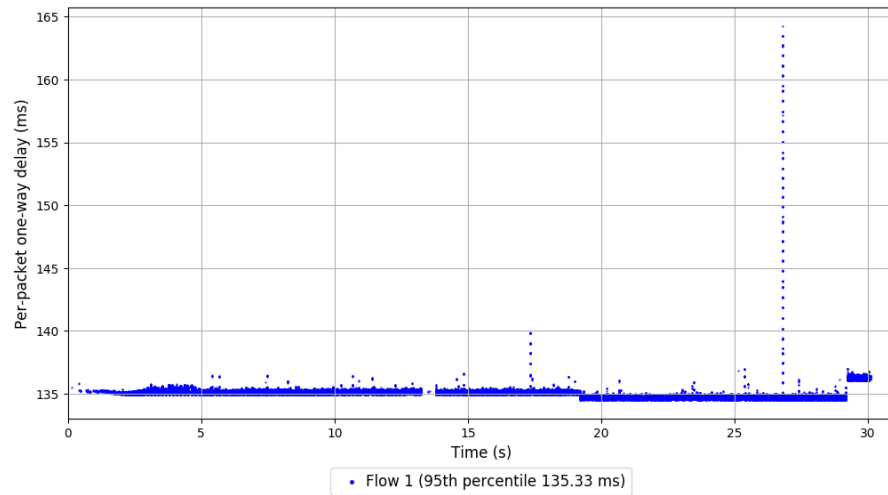
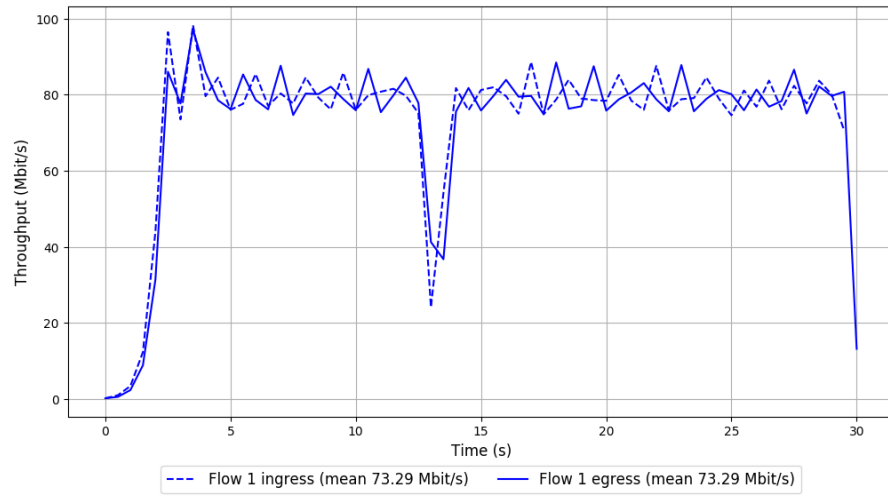
-- Flow 1:

Average throughput: 73.29 Mbit/s

95th percentile per-packet one-way delay: 135.334 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-13 15:20:16

End at: 2018-02-13 15:20:46

Below is generated by plot.py at 2018-02-13 17:31:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.39 Mbit/s

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

Loss rate: 0.29%

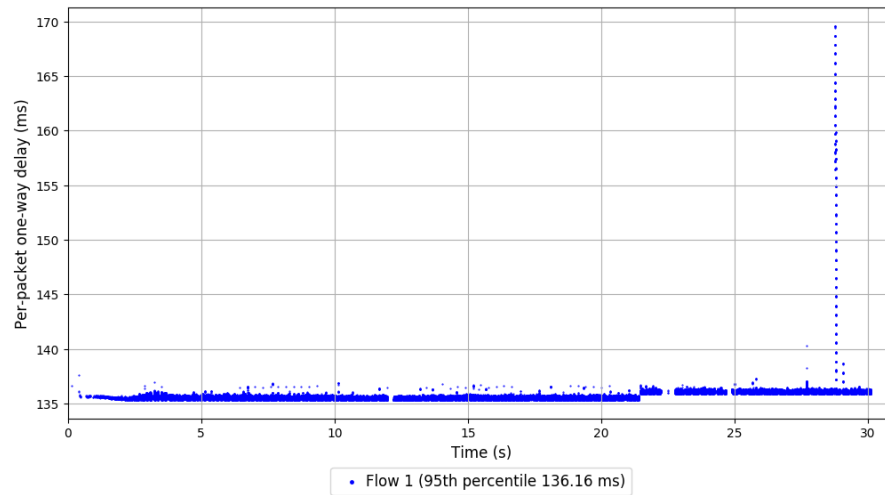
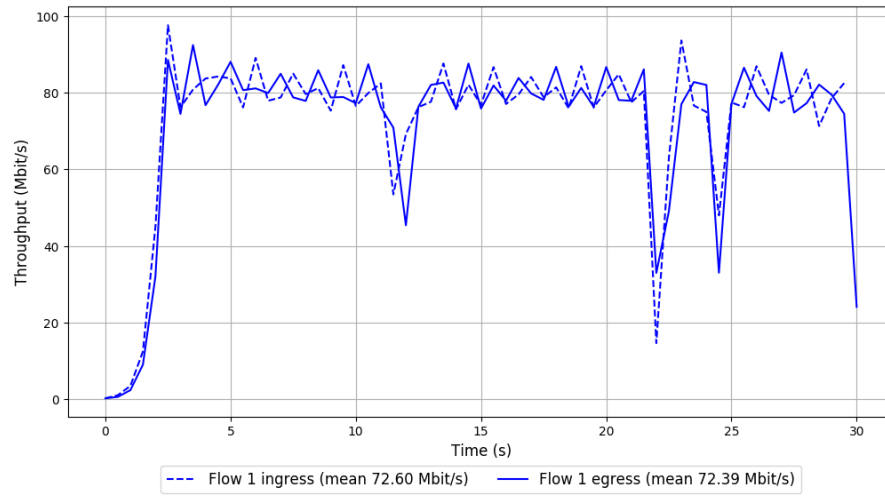
-- Flow 1:

Average throughput: 72.39 Mbit/s

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

Loss rate: 0.29%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-13 15:36:29

End at: 2018-02-13 15:36:59

Below is generated by plot.py at 2018-02-13 17:31:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.57 Mbit/s

95th percentile per-packet one-way delay: 136.189 ms

Loss rate: 0.16%

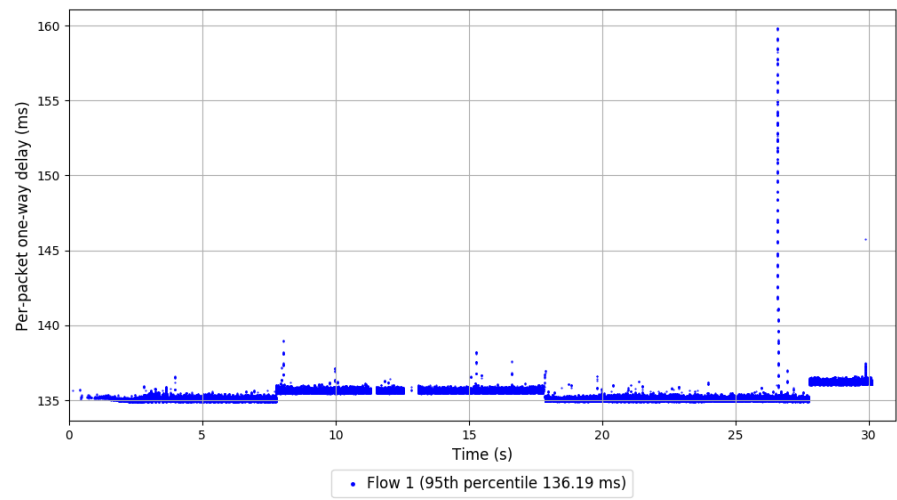
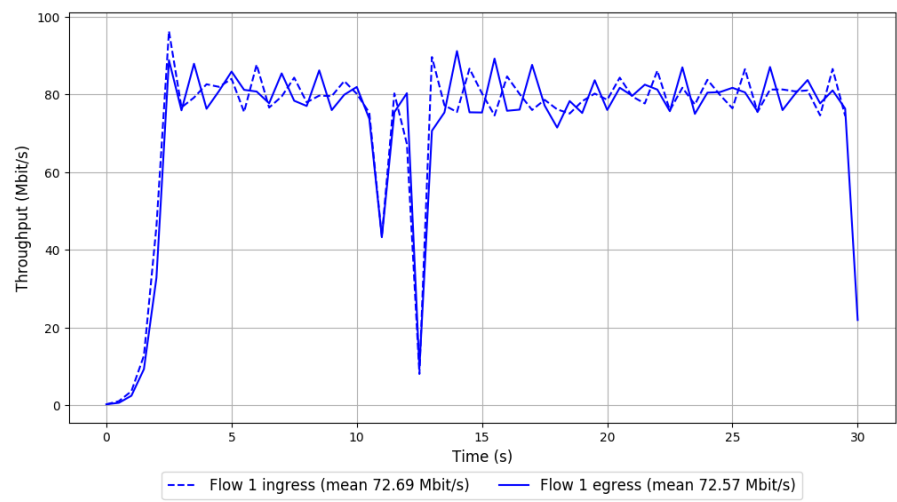
-- Flow 1:

Average throughput: 72.57 Mbit/s

95th percentile per-packet one-way delay: 136.189 ms

Loss rate: 0.16%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-13 15:52:22

End at: 2018-02-13 15:52:53

Below is generated by plot.py at 2018-02-13 17:32:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.44 Mbit/s

95th percentile per-packet one-way delay: 161.699 ms

Loss rate: 0.26%

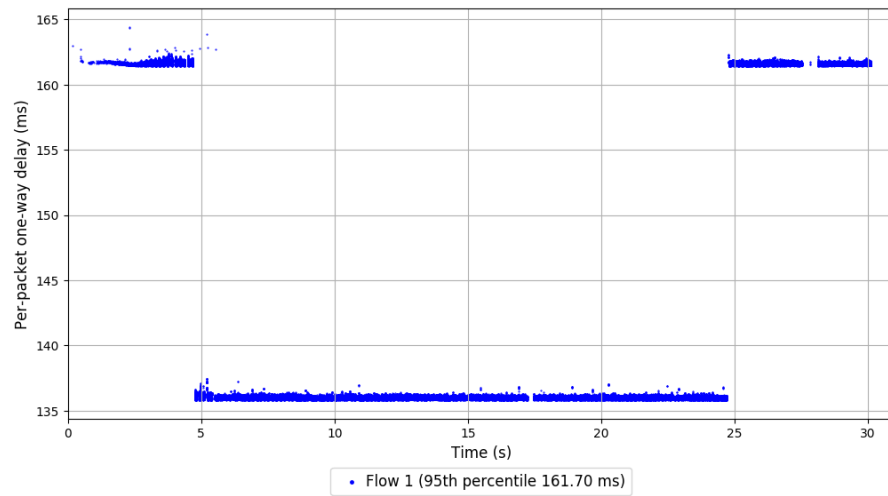
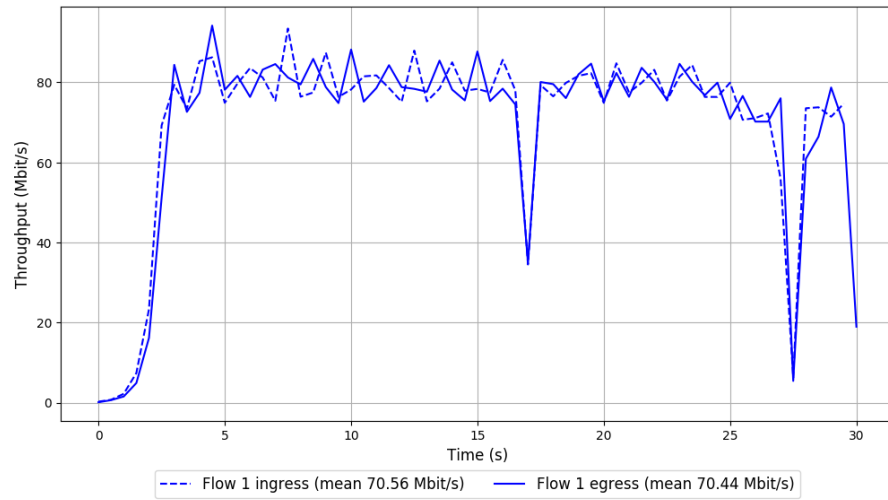
-- Flow 1:

Average throughput: 70.44 Mbit/s

95th percentile per-packet one-way delay: 161.699 ms

Loss rate: 0.26%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-13 16:08:13

End at: 2018-02-13 16:08:43

Below is generated by plot.py at 2018-02-13 17:32:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.92 Mbit/s

95th percentile per-packet one-way delay: 136.229 ms

Loss rate: 0.10%

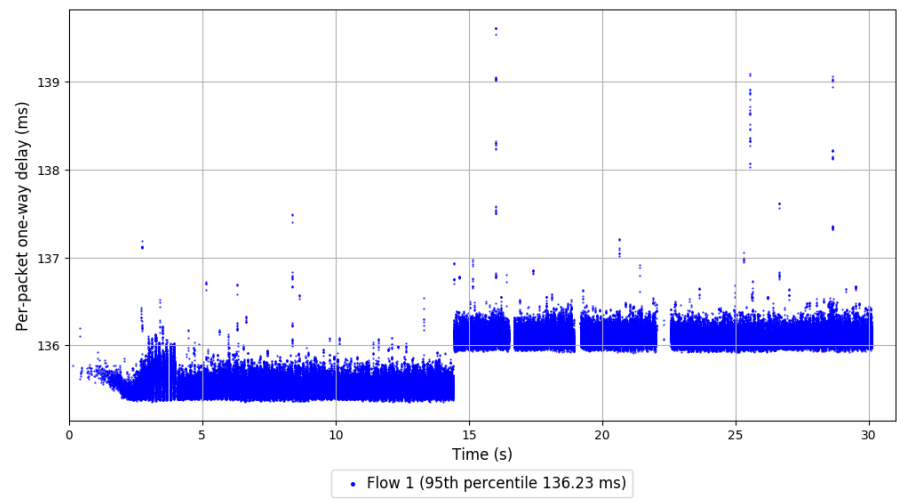
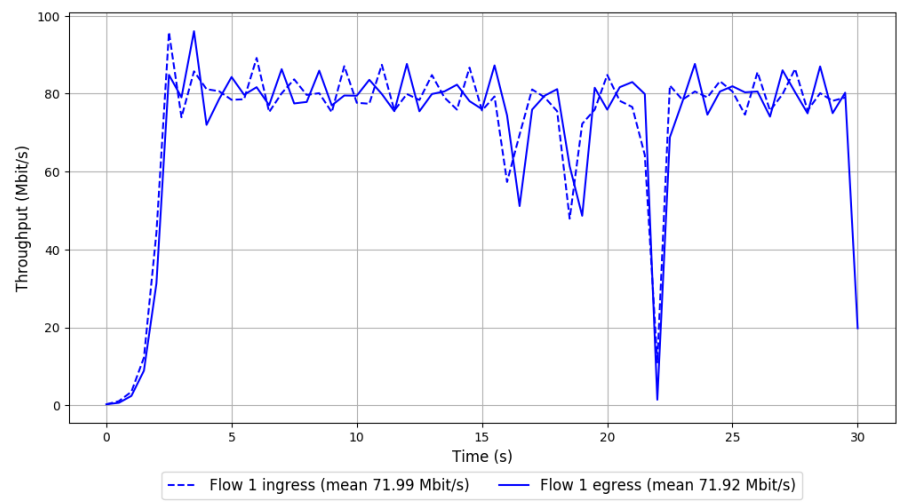
-- Flow 1:

Average throughput: 71.92 Mbit/s

95th percentile per-packet one-way delay: 136.229 ms

Loss rate: 0.10%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

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

End at: 2018-02-13 13:48:43

Below is generated by plot.py at 2018-02-13 17:32:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.86 Mbit/s

95th percentile per-packet one-way delay: 172.601 ms

Loss rate: 0.91%

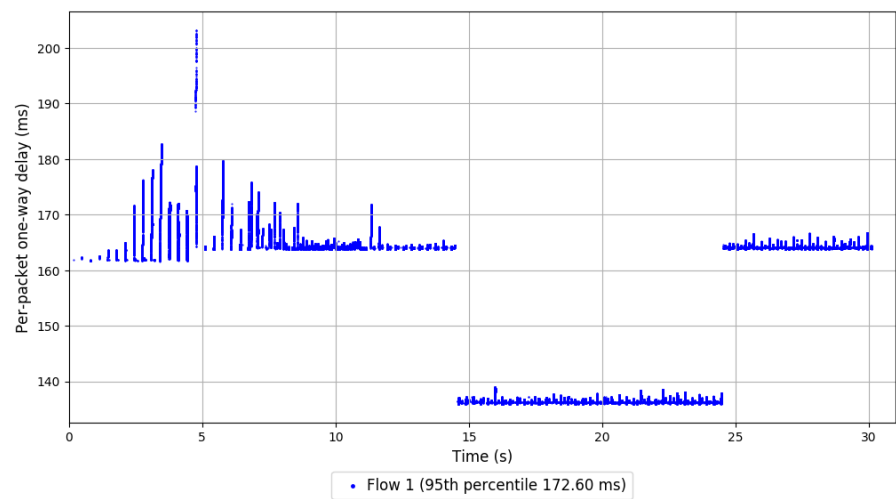
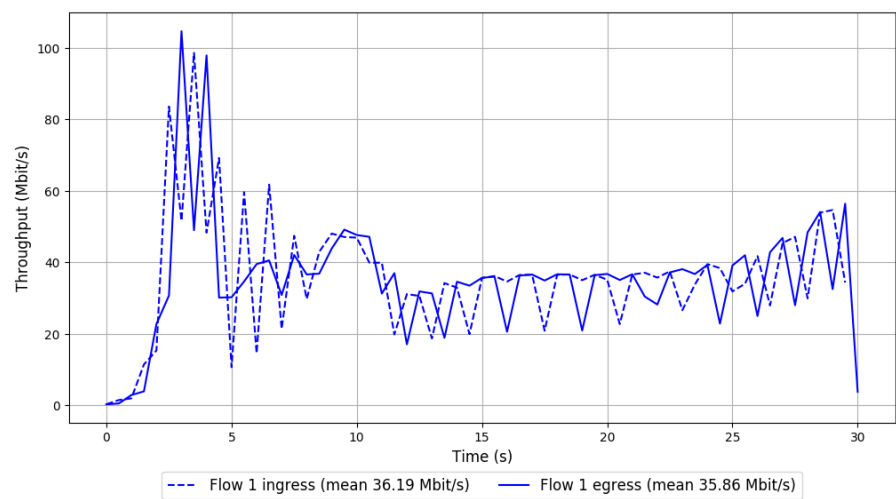
-- Flow 1:

Average throughput: 35.86 Mbit/s

95th percentile per-packet one-way delay: 172.601 ms

Loss rate: 0.91%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-13 14:04:23

End at: 2018-02-13 14:04:53

Below is generated by plot.py at 2018-02-13 17:32:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.17 Mbit/s

95th percentile per-packet one-way delay: 164.050 ms

Loss rate: 1.99%

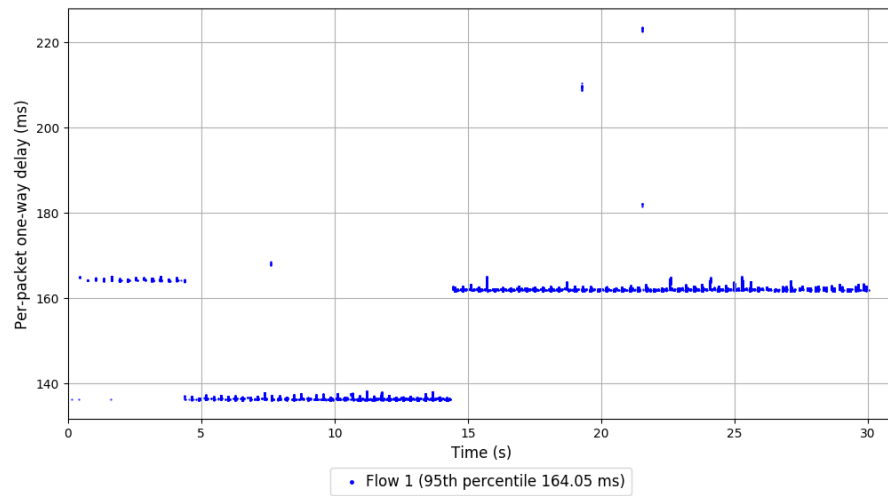
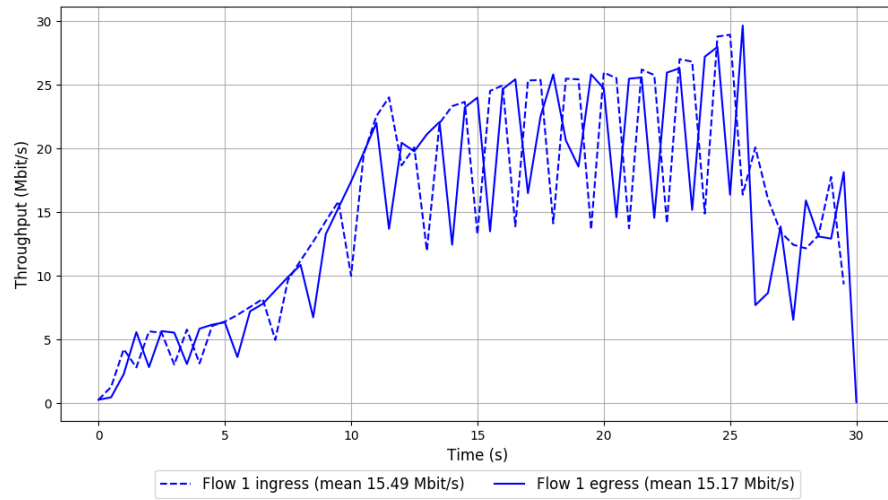
-- Flow 1:

Average throughput: 15.17 Mbit/s

95th percentile per-packet one-way delay: 164.050 ms

Loss rate: 1.99%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

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

End at: 2018-02-13 14:20:50

Below is generated by plot.py at 2018-02-13 17:32:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.90 Mbit/s

95th percentile per-packet one-way delay: 162.484 ms

Loss rate: 1.97%

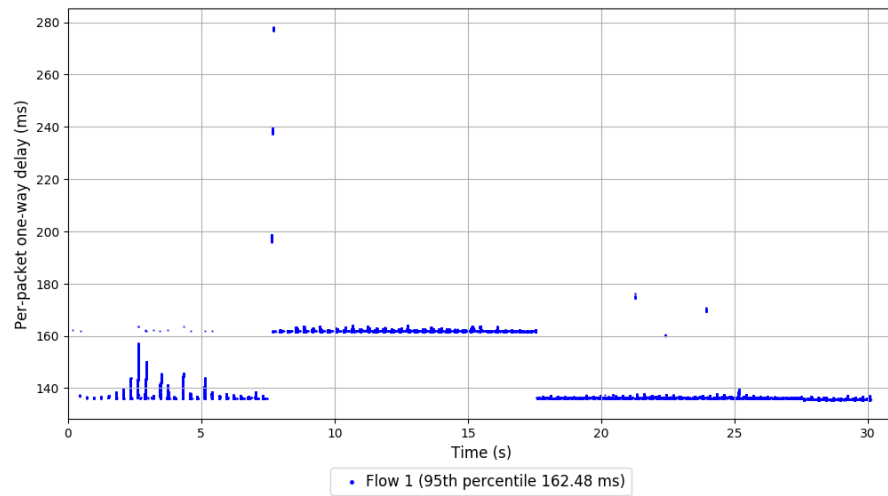
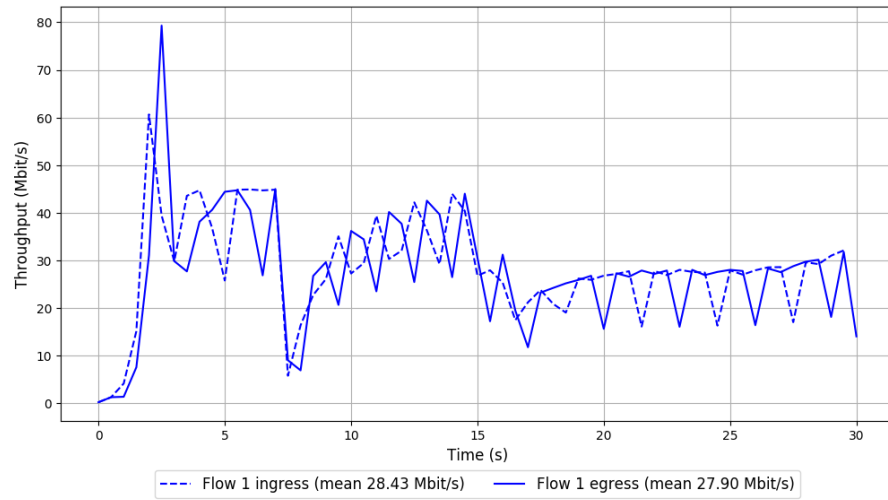
-- Flow 1:

Average throughput: 27.90 Mbit/s

95th percentile per-packet one-way delay: 162.484 ms

Loss rate: 1.97%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-13 14:35:59

End at: 2018-02-13 14:36:29

Below is generated by plot.py at 2018-02-13 17:32:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.44 Mbit/s

95th percentile per-packet one-way delay: 166.651 ms

Loss rate: 0.04%

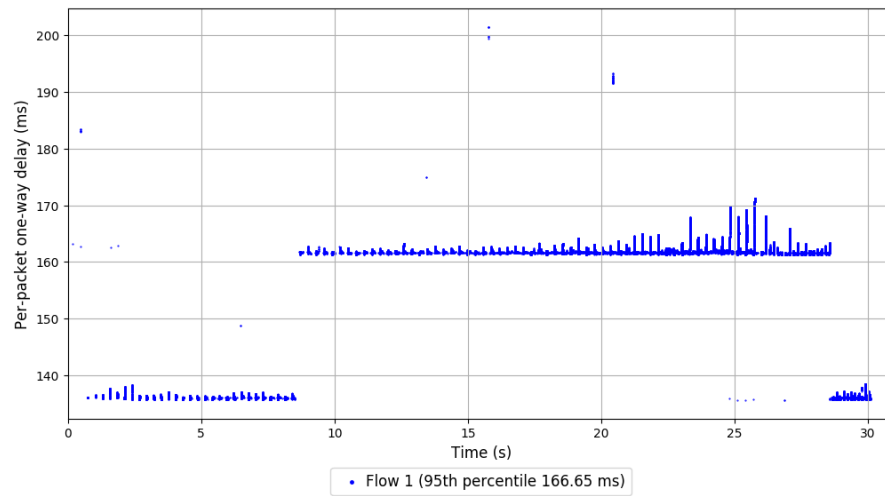
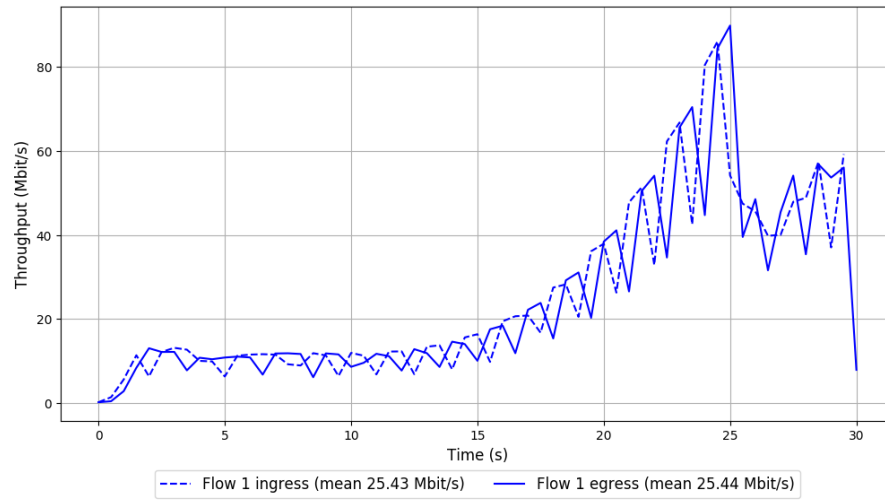
-- Flow 1:

Average throughput: 25.44 Mbit/s

95th percentile per-packet one-way delay: 166.651 ms

Loss rate: 0.04%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-13 14:52:08

End at: 2018-02-13 14:52:38

Below is generated by plot.py at 2018-02-13 17:32:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.71 Mbit/s

95th percentile per-packet one-way delay: 140.756 ms

Loss rate: 0.59%

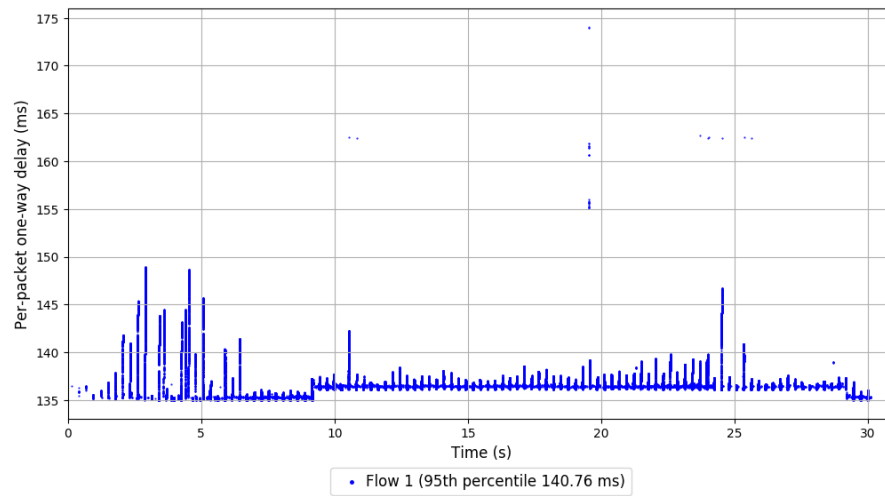
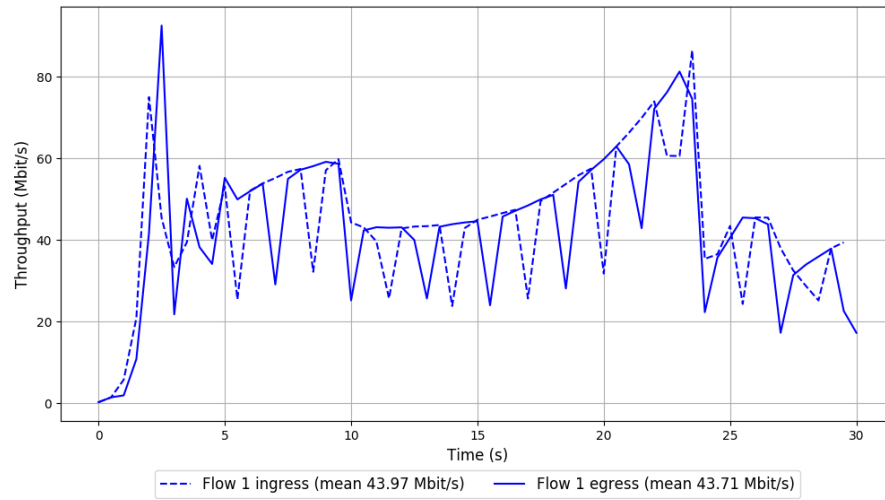
-- Flow 1:

Average throughput: 43.71 Mbit/s

95th percentile per-packet one-way delay: 140.756 ms

Loss rate: 0.59%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-13 15:08:15

End at: 2018-02-13 15:08:45

Below is generated by plot.py at 2018-02-13 17:32:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.70 Mbit/s

95th percentile per-packet one-way delay: 146.034 ms

Loss rate: 0.53%

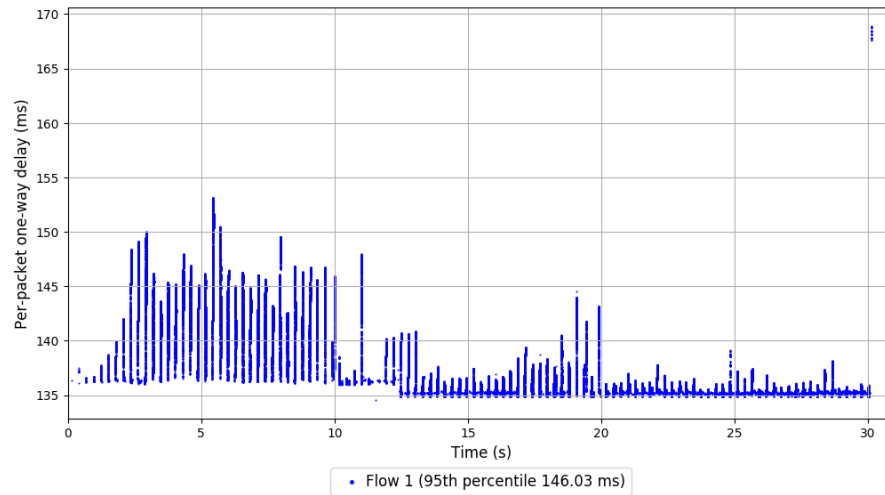
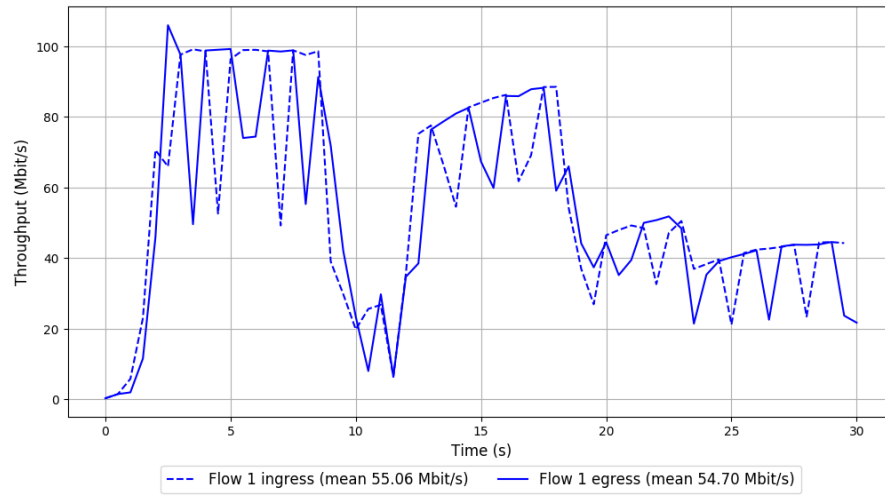
-- Flow 1:

Average throughput: 54.70 Mbit/s

95th percentile per-packet one-way delay: 146.034 ms

Loss rate: 0.53%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-13 15:24:49

End at: 2018-02-13 15:25:19

Below is generated by plot.py at 2018-02-13 17:32:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.74 Mbit/s

95th percentile per-packet one-way delay: 143.428 ms

Loss rate: 1.10%

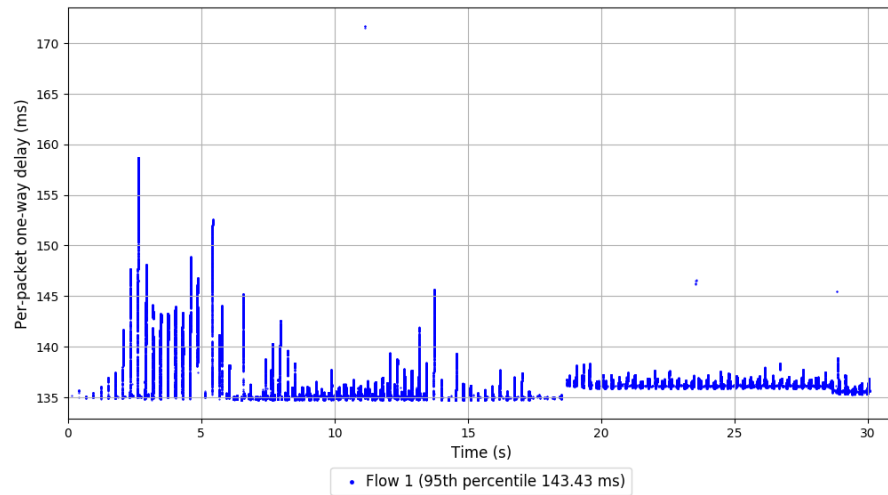
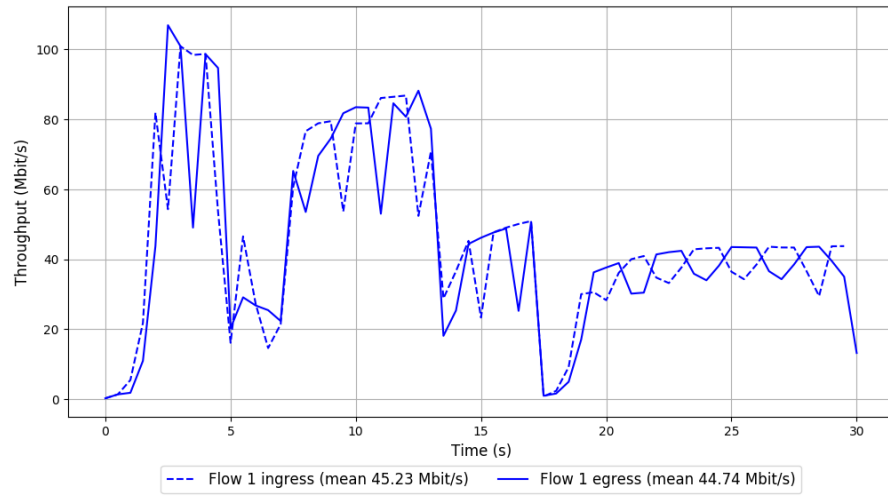
-- Flow 1:

Average throughput: 44.74 Mbit/s

95th percentile per-packet one-way delay: 143.428 ms

Loss rate: 1.10%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-13 15:40:57

End at: 2018-02-13 15:41:27

Below is generated by plot.py at 2018-02-13 17:32:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.16 Mbit/s

95th percentile per-packet one-way delay: 137.768 ms

Loss rate: 0.01%

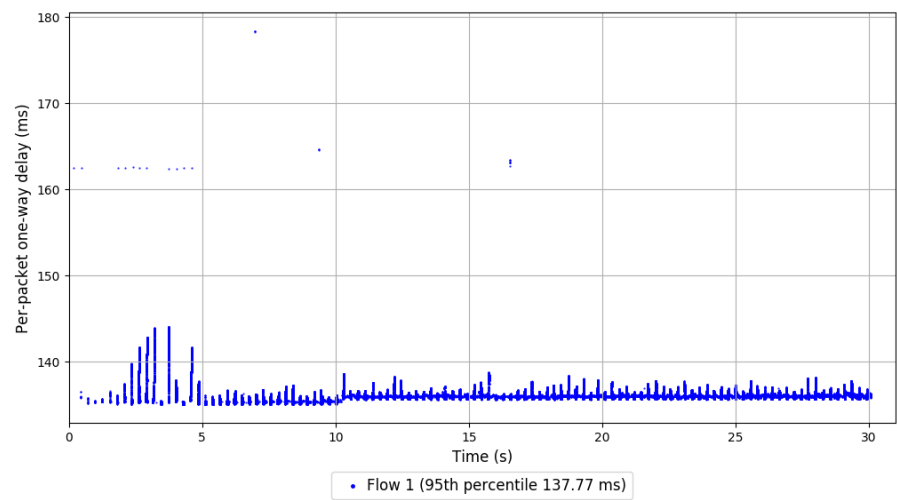
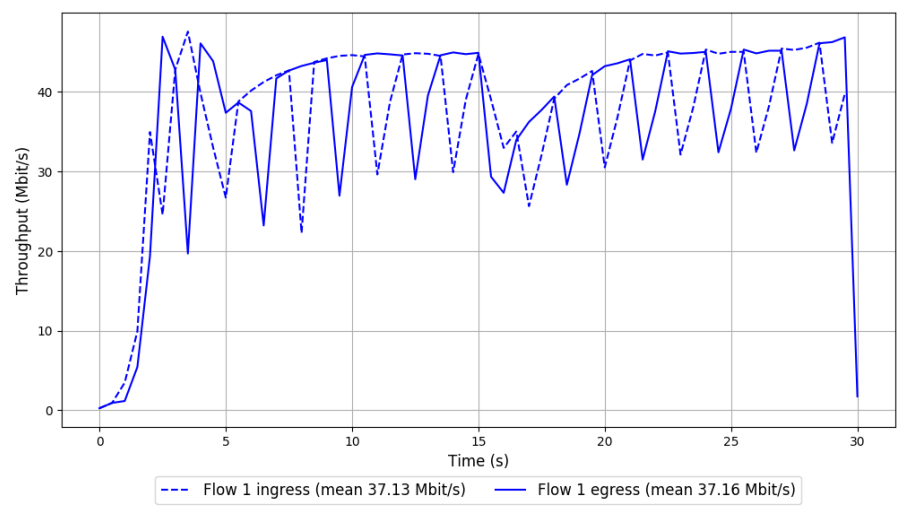
-- Flow 1:

Average throughput: 37.16 Mbit/s

95th percentile per-packet one-way delay: 137.768 ms

Loss rate: 0.01%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-13 15:56:49

End at: 2018-02-13 15:57:19

Below is generated by plot.py at 2018-02-13 17:32:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.35 Mbit/s

95th percentile per-packet one-way delay: 162.717 ms

Loss rate: 0.88%

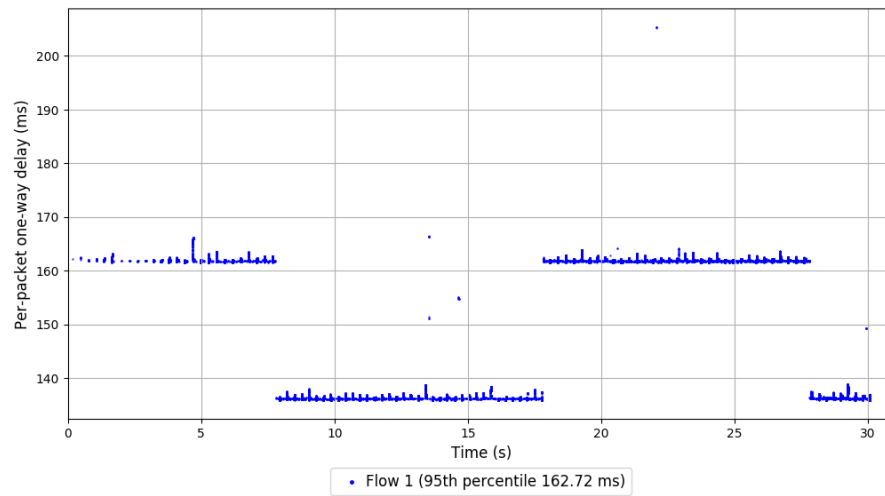
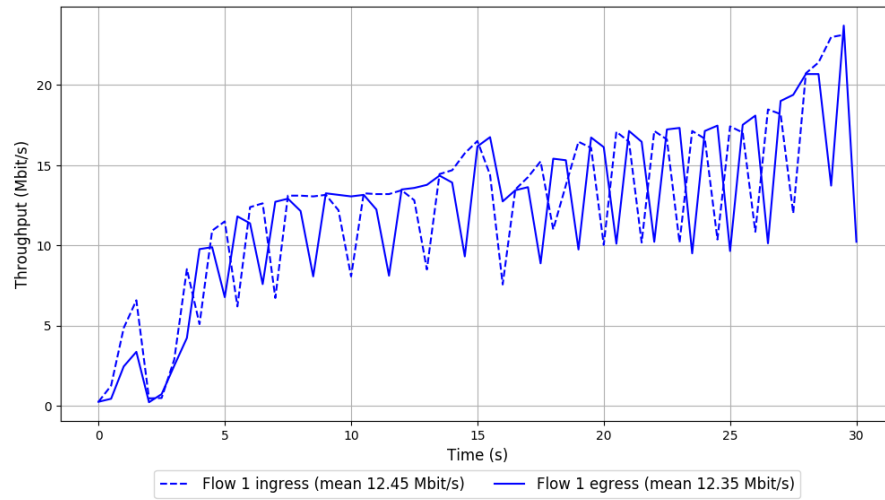
-- Flow 1:

Average throughput: 12.35 Mbit/s

95th percentile per-packet one-way delay: 162.717 ms

Loss rate: 0.88%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-13 16:12:43

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

Below is generated by plot.py at 2018-02-13 17:32:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.05 Mbit/s

95th percentile per-packet one-way delay: 165.494 ms

Loss rate: 0.01%

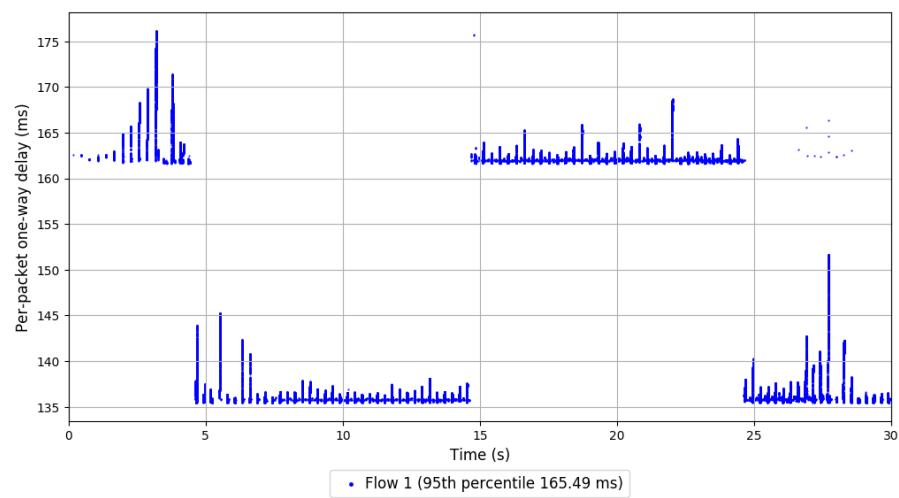
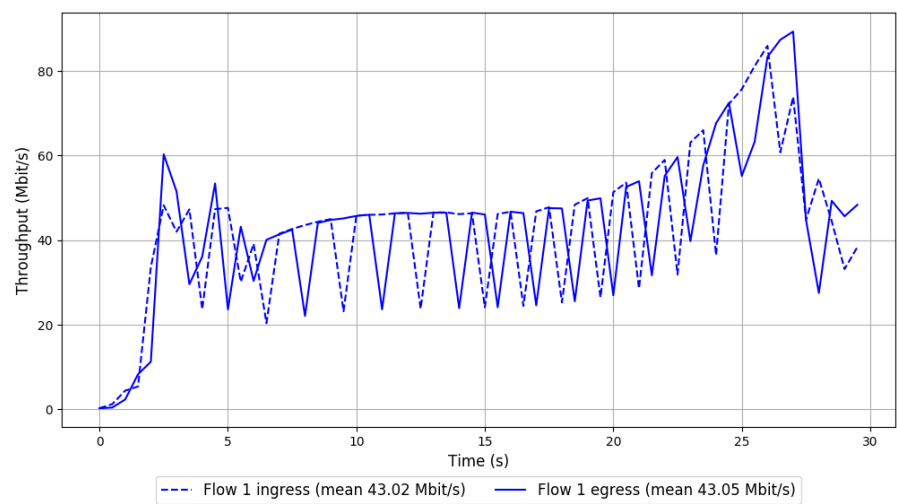
-- Flow 1:

Average throughput: 43.05 Mbit/s

95th percentile per-packet one-way delay: 165.494 ms

Loss rate: 0.01%

Run 10: Report of TCP Cubic — Data Link

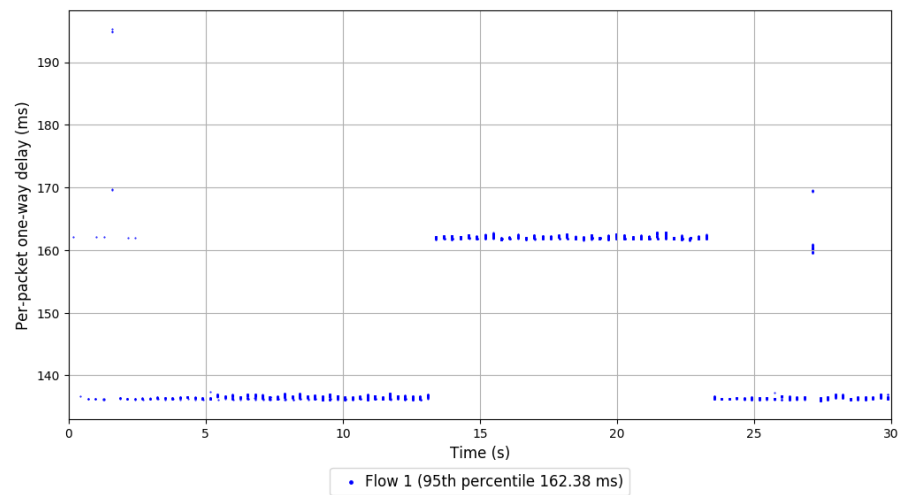
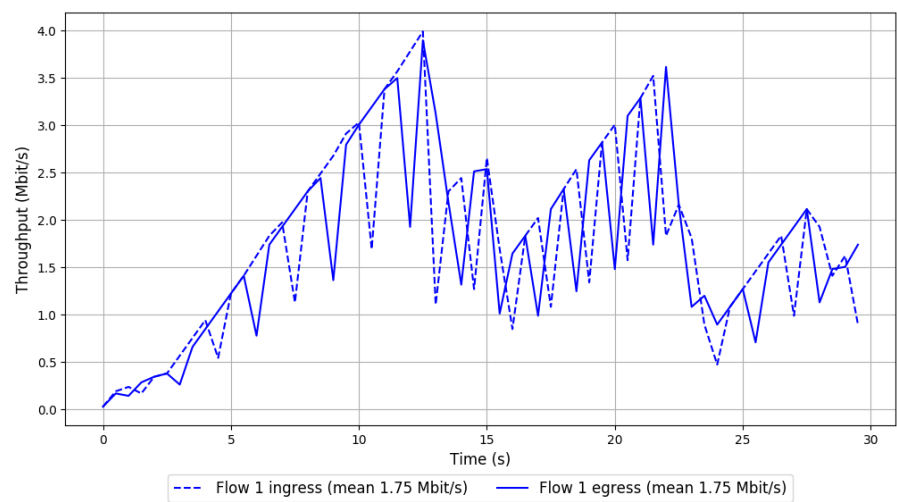


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-13 13:53:24
End at: 2018-02-13 13:53:54

# Below is generated by plot.py at 2018-02-13 17:32:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.75 Mbit/s
95th percentile per-packet one-way delay: 162.381 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.75 Mbit/s
95th percentile per-packet one-way delay: 162.381 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-02-13 14:09:13

End at: 2018-02-13 14:09:43

Below is generated by plot.py at 2018-02-13 17:32:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.47 Mbit/s

95th percentile per-packet one-way delay: 162.501 ms

Loss rate: 0.00%

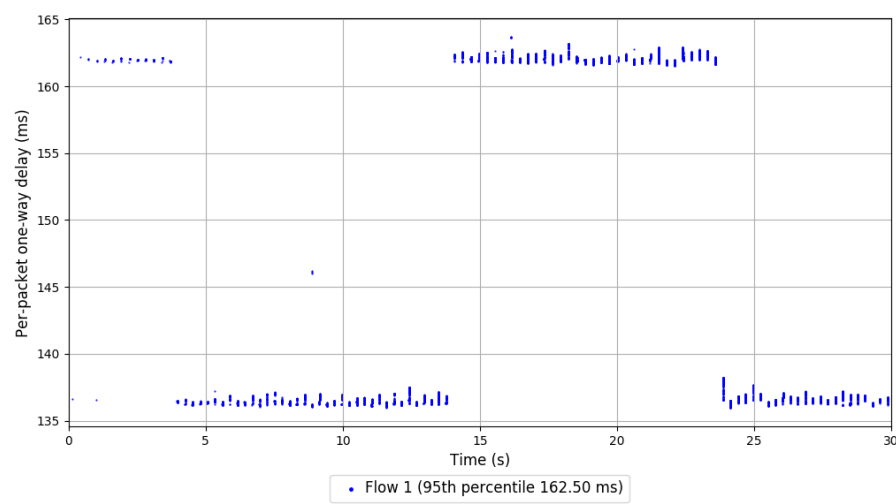
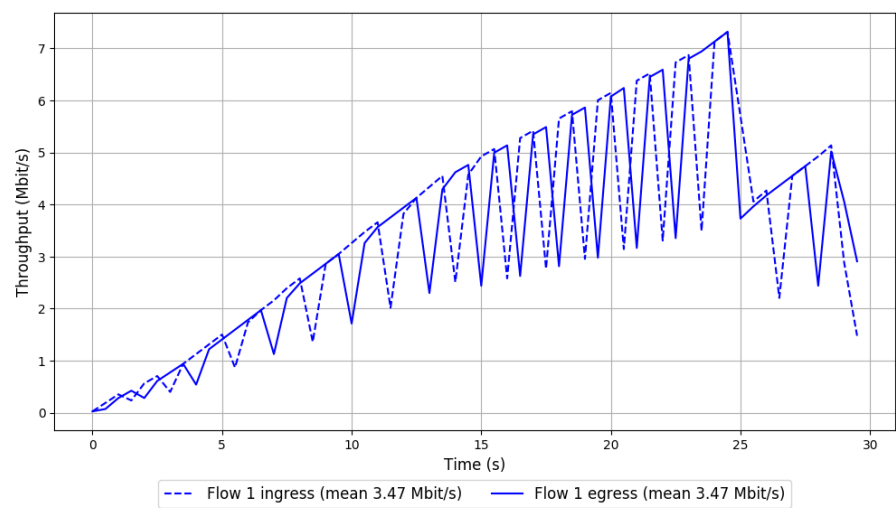
-- Flow 1:

Average throughput: 3.47 Mbit/s

95th percentile per-packet one-way delay: 162.501 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-13 14:25:29

End at: 2018-02-13 14:25:59

Below is generated by plot.py at 2018-02-13 17:32:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 162.328 ms

Loss rate: 0.15%

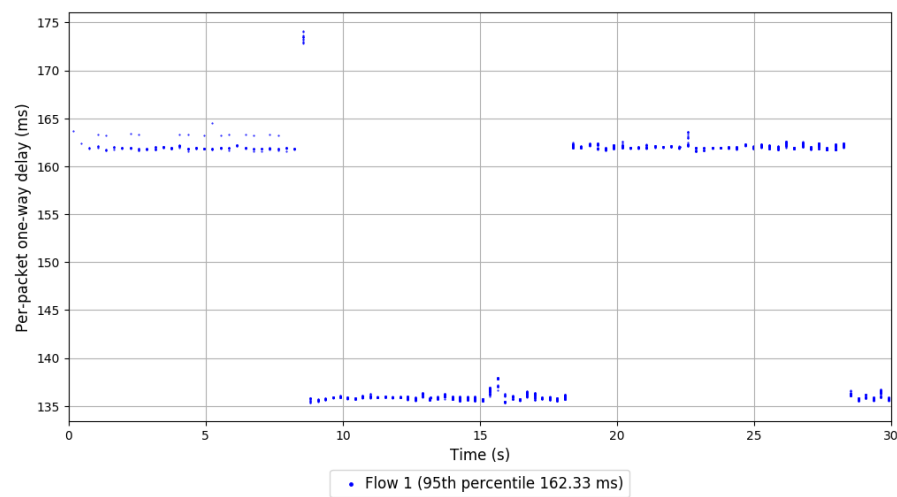
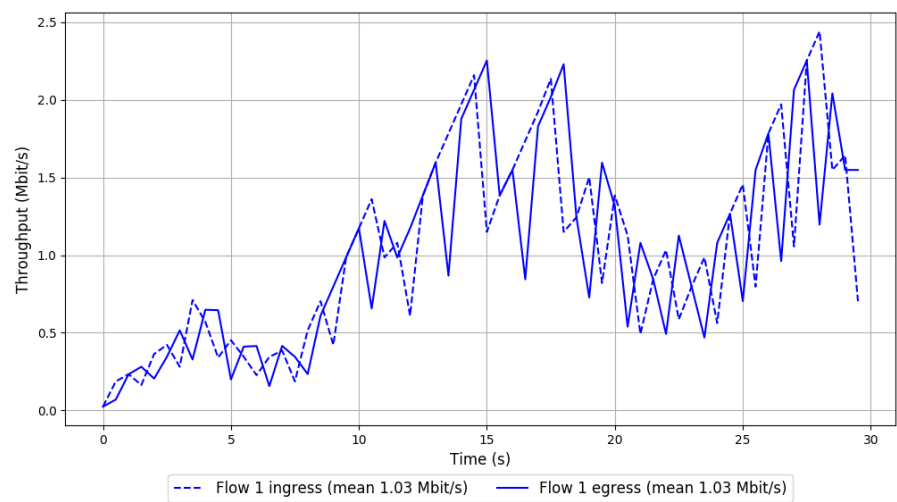
-- Flow 1:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 162.328 ms

Loss rate: 0.15%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-13 14:41:06

End at: 2018-02-13 14:41:36

Below is generated by plot.py at 2018-02-13 17:32:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 162.204 ms

Loss rate: 0.74%

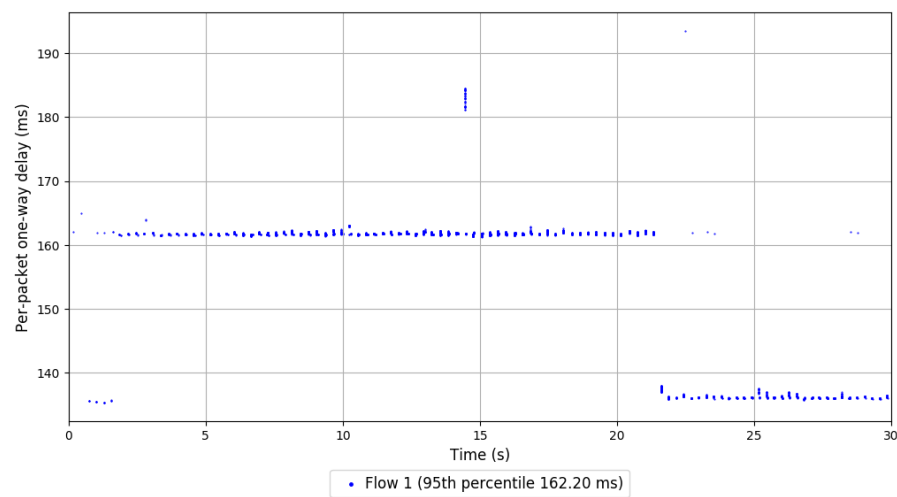
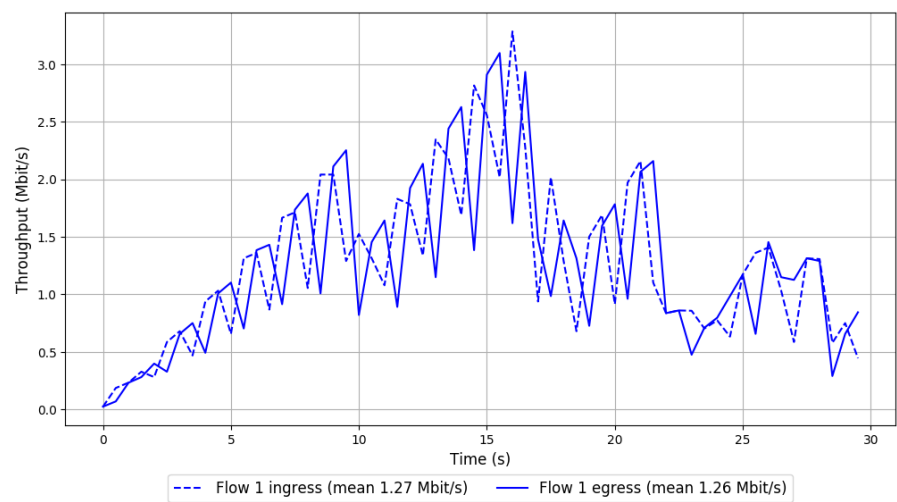
-- Flow 1:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 162.204 ms

Loss rate: 0.74%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-13 14:57:01

End at: 2018-02-13 14:57:31

Below is generated by plot.py at 2018-02-13 17:32:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 136.553 ms

Loss rate: 0.00%

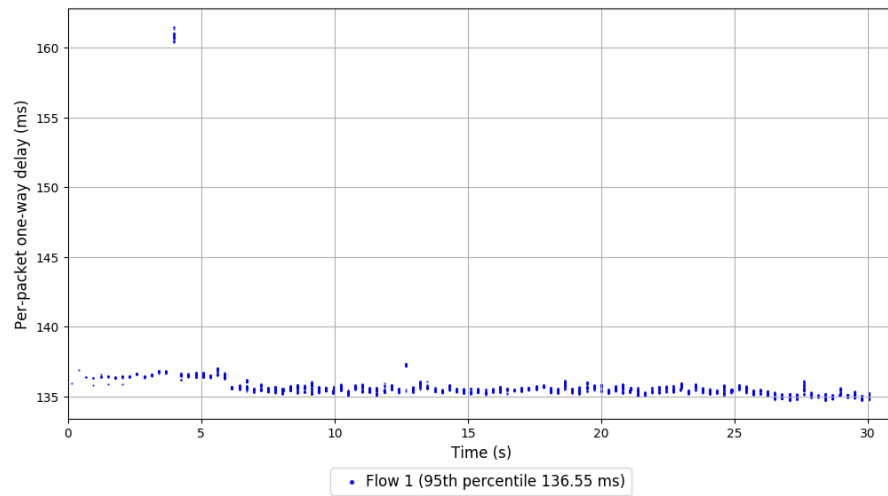
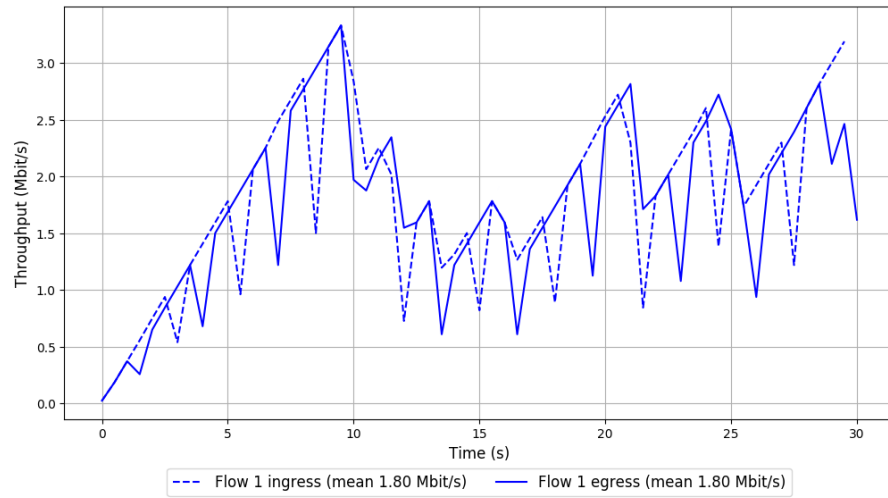
-- Flow 1:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 136.553 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-13 15:13:25

End at: 2018-02-13 15:13:55

Below is generated by plot.py at 2018-02-13 17:32:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.96 Mbit/s

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

Loss rate: 0.29%

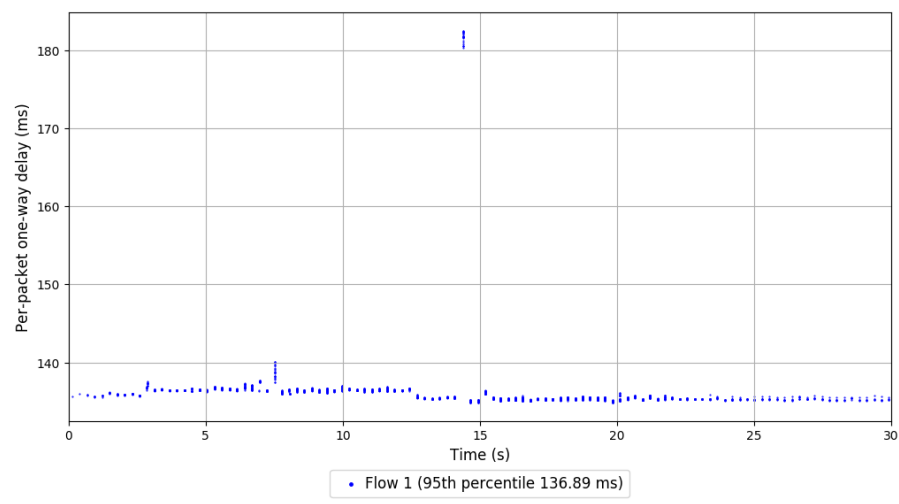
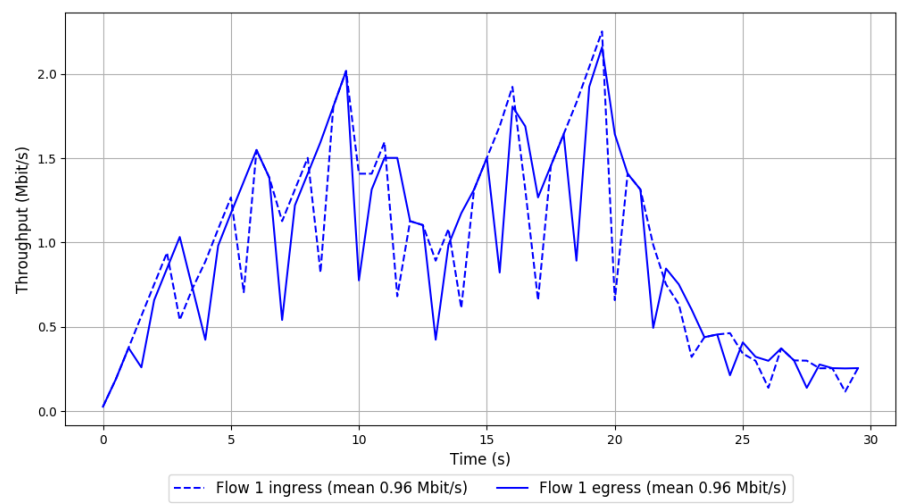
-- Flow 1:

Average throughput: 0.96 Mbit/s

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

Loss rate: 0.29%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-13 15:29:39

End at: 2018-02-13 15:30:09

Below is generated by plot.py at 2018-02-13 17:32:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 136.980 ms

Loss rate: 0.33%

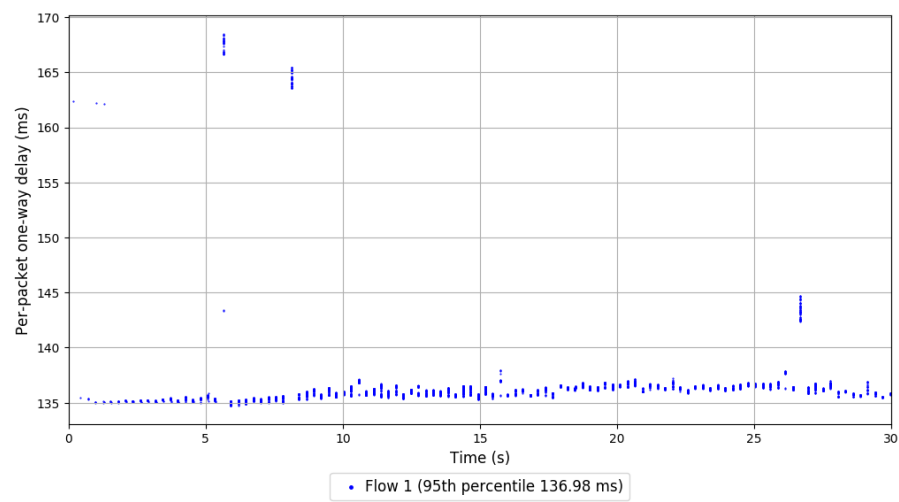
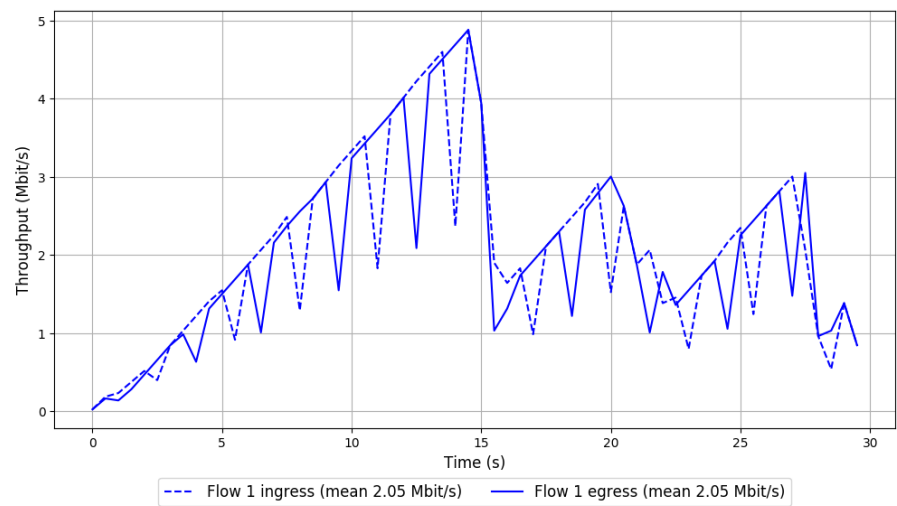
-- Flow 1:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 136.980 ms

Loss rate: 0.33%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-13 15:45:42

End at: 2018-02-13 15:46:12

Below is generated by plot.py at 2018-02-13 17:32:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 137.355 ms

Loss rate: 0.16%

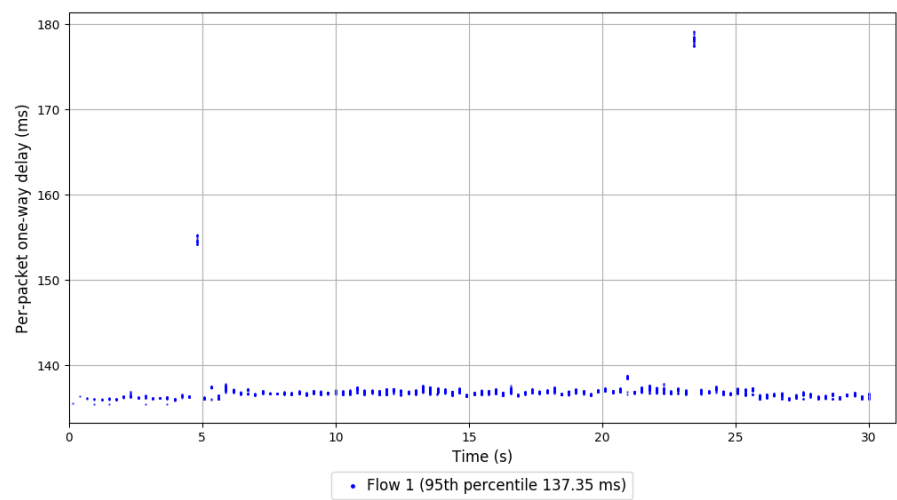
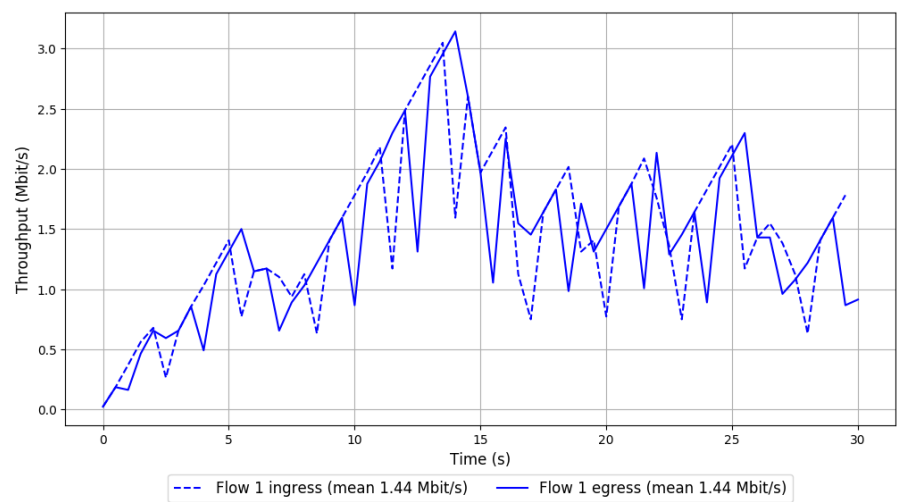
-- Flow 1:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 137.355 ms

Loss rate: 0.16%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-13 16:01:58

End at: 2018-02-13 16:02:28

Below is generated by plot.py at 2018-02-13 17:32:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.68 Mbit/s

95th percentile per-packet one-way delay: 162.013 ms

Loss rate: 0.00%

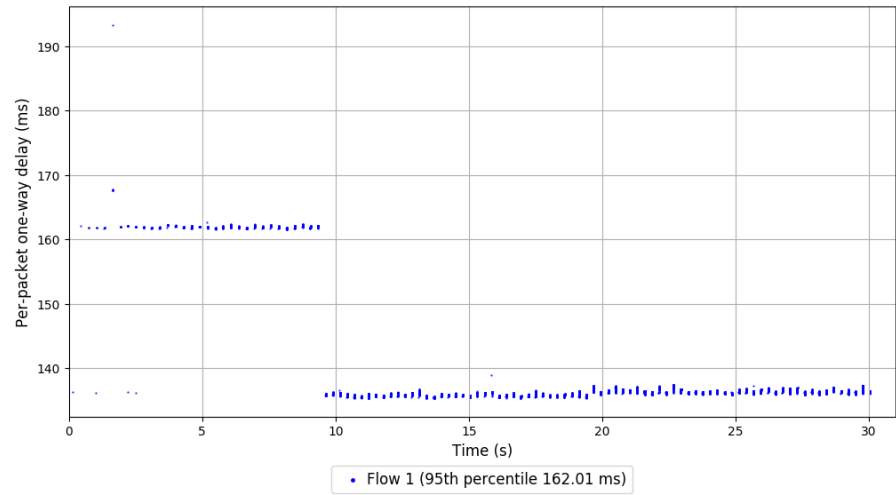
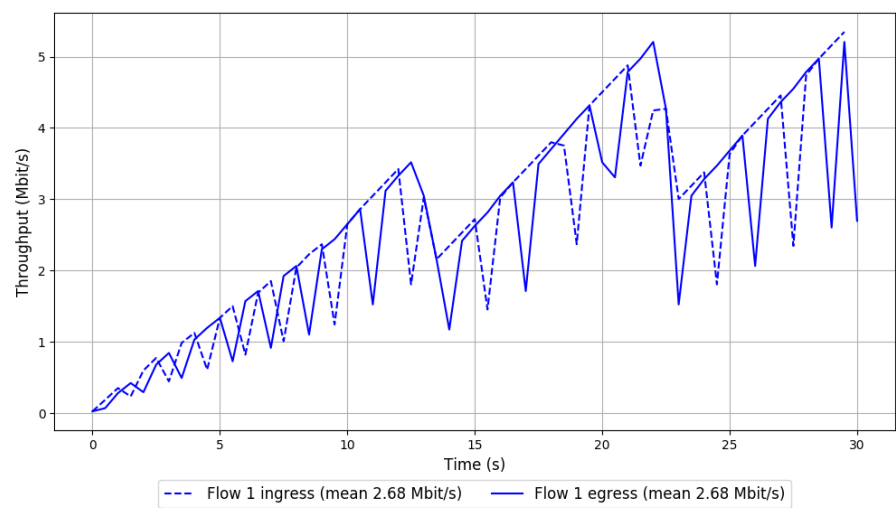
-- Flow 1:

Average throughput: 2.68 Mbit/s

95th percentile per-packet one-way delay: 162.013 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-13 16:17:31

End at: 2018-02-13 16:18:01

Below is generated by plot.py at 2018-02-13 17:32:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.36 Mbit/s

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

Loss rate: 1.90%

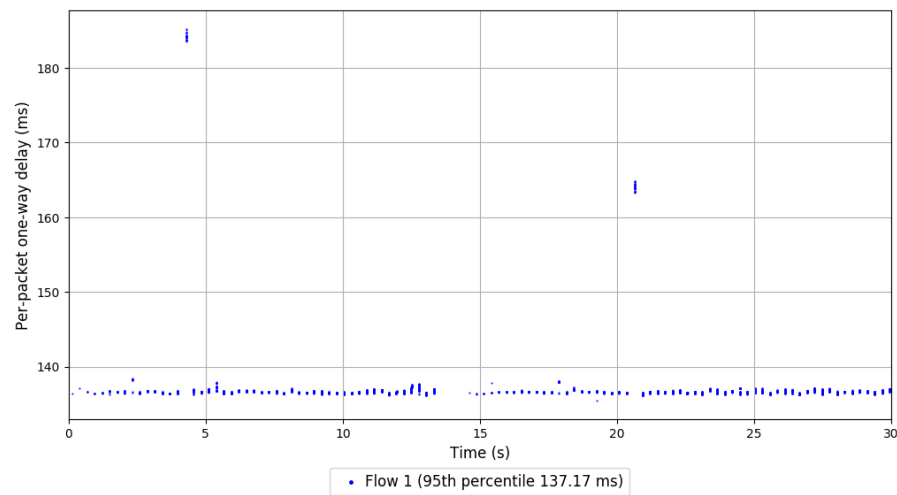
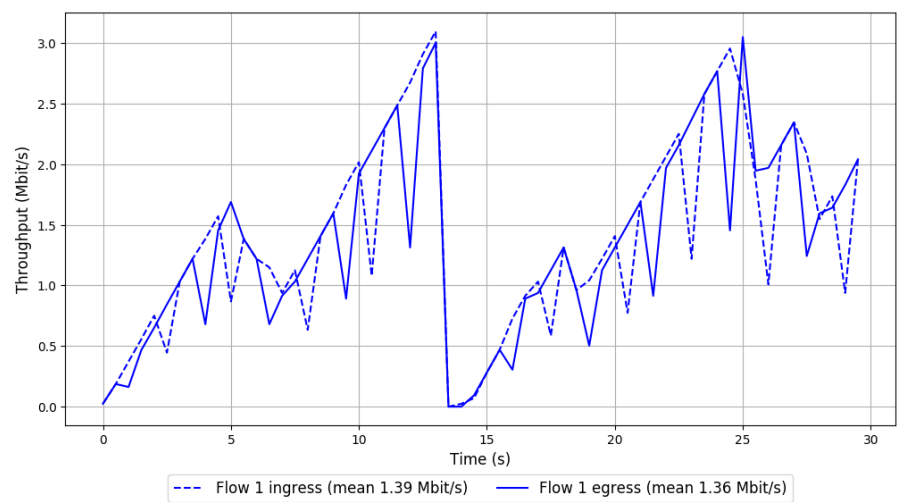
-- Flow 1:

Average throughput: 1.36 Mbit/s

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

Loss rate: 1.90%

Run 10: Report of LEDBAT — Data Link

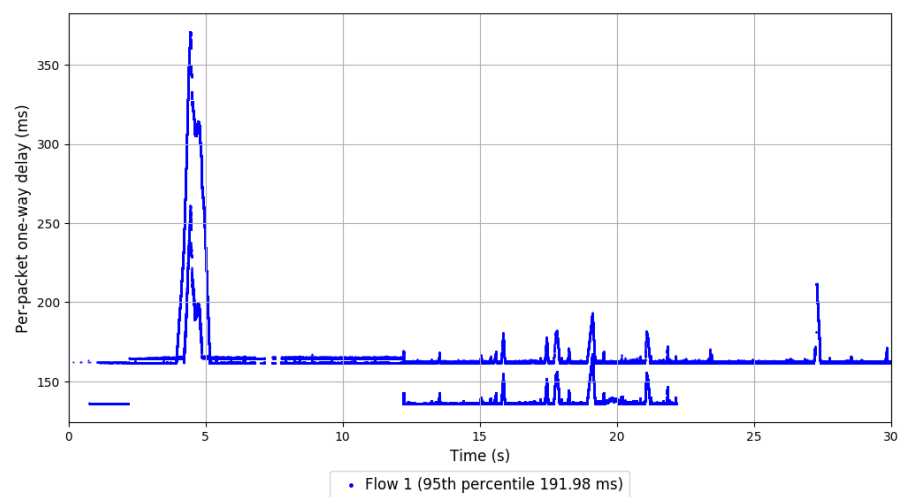
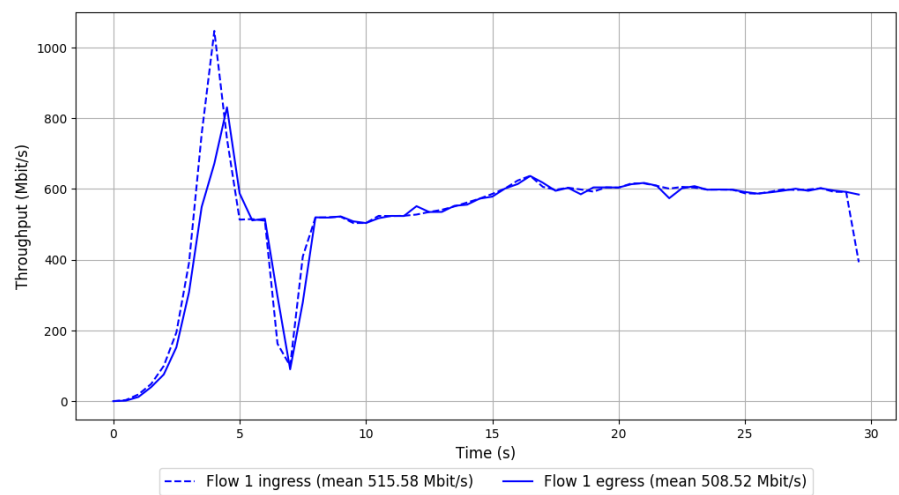


```
Run 1: Statistics of PCC

Start at: 2018-02-13 13:57:55
End at: 2018-02-13 13:58:25

# Below is generated by plot.py at 2018-02-13 17:40:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 508.52 Mbit/s
95th percentile per-packet one-way delay: 191.978 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 508.52 Mbit/s
95th percentile per-packet one-way delay: 191.978 ms
Loss rate: 1.37%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-13 14:13:49

End at: 2018-02-13 14:14:19

Below is generated by plot.py at 2018-02-13 17:41:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 522.91 Mbit/s

95th percentile per-packet one-way delay: 188.290 ms

Loss rate: 1.06%

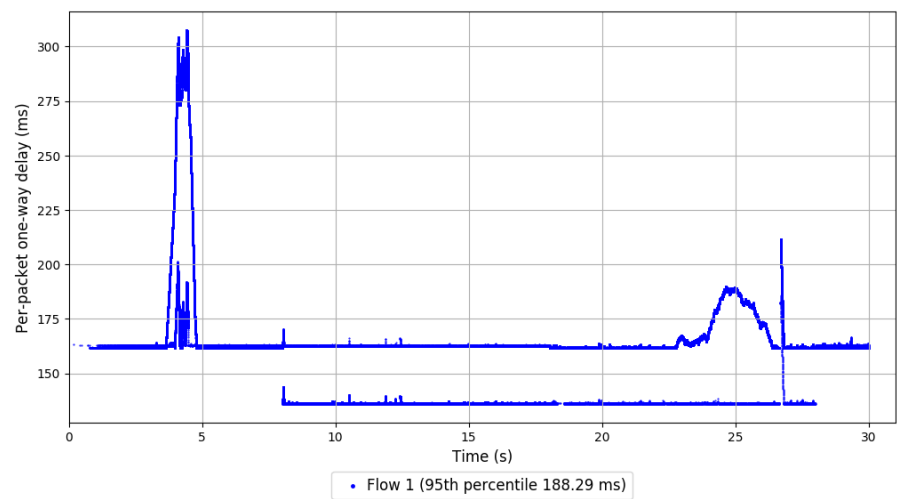
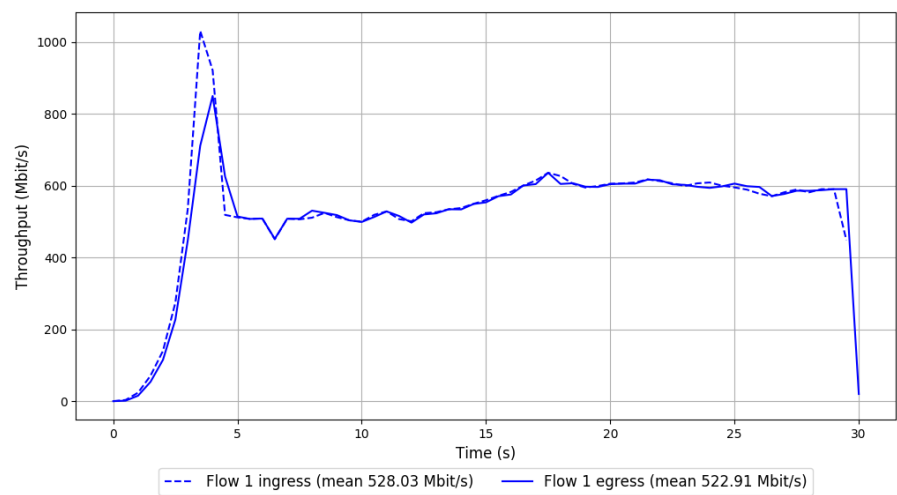
-- Flow 1:

Average throughput: 522.91 Mbit/s

95th percentile per-packet one-way delay: 188.290 ms

Loss rate: 1.06%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-13 14:29:51

End at: 2018-02-13 14:30:21

Below is generated by plot.py at 2018-02-13 17:41:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.55 Mbit/s

95th percentile per-packet one-way delay: 161.565 ms

Loss rate: 0.00%

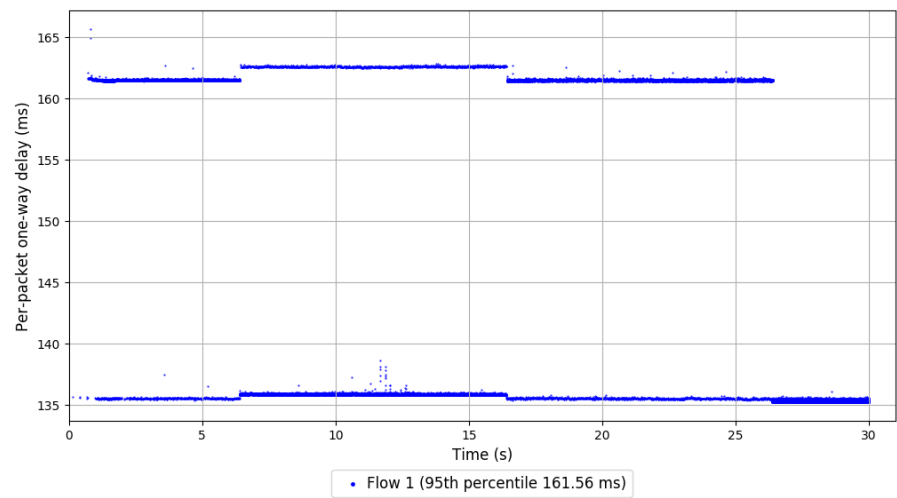
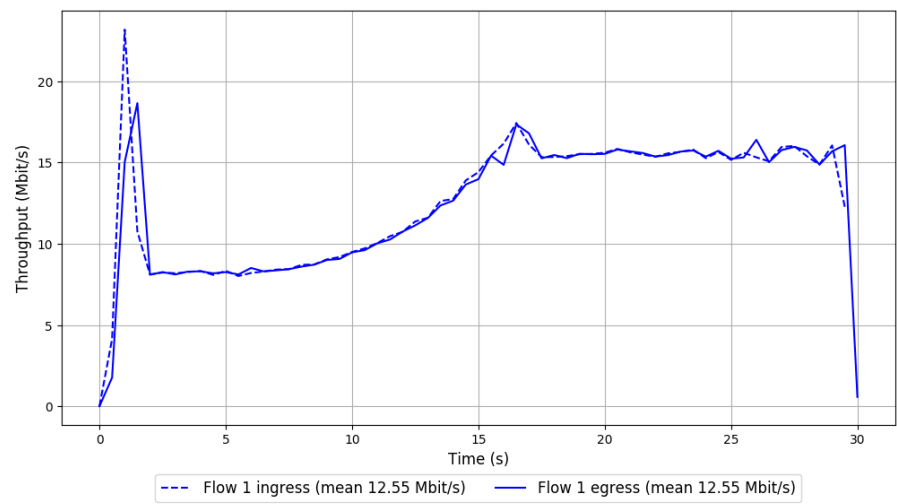
-- Flow 1:

Average throughput: 12.55 Mbit/s

95th percentile per-packet one-way delay: 161.565 ms

Loss rate: 0.00%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-13 14:45:55

End at: 2018-02-13 14:46:25

Below is generated by plot.py at 2018-02-13 17:41:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.67 Mbit/s

95th percentile per-packet one-way delay: 136.597 ms

Loss rate: 0.00%

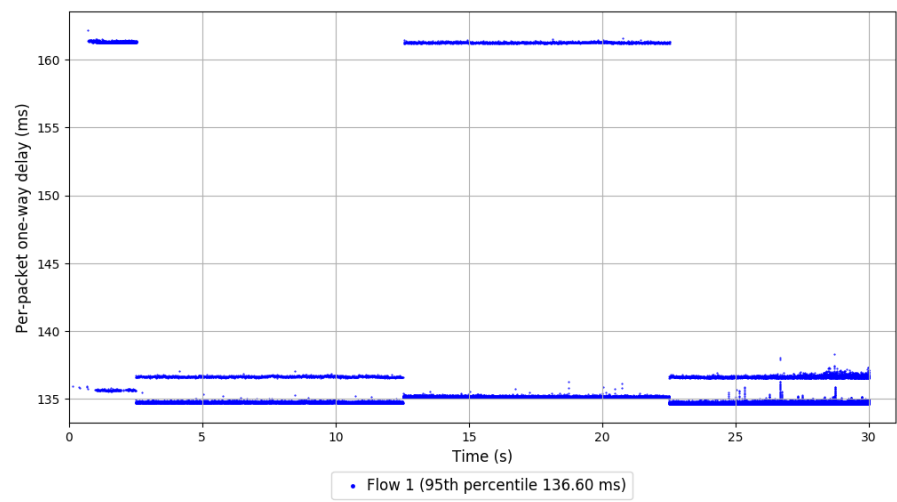
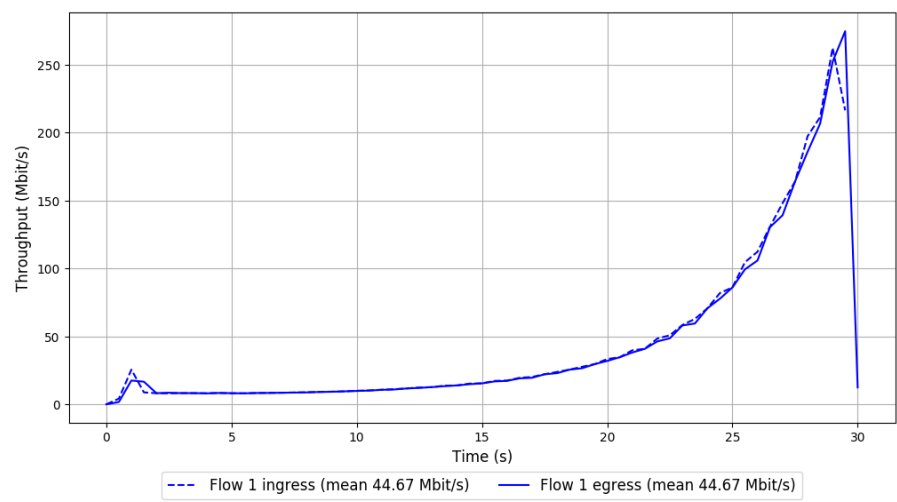
-- Flow 1:

Average throughput: 44.67 Mbit/s

95th percentile per-packet one-way delay: 136.597 ms

Loss rate: 0.00%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-13 15:01:46

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

Below is generated by plot.py at 2018-02-13 17:42:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 551.23 Mbit/s

95th percentile per-packet one-way delay: 278.172 ms

Loss rate: 3.37%

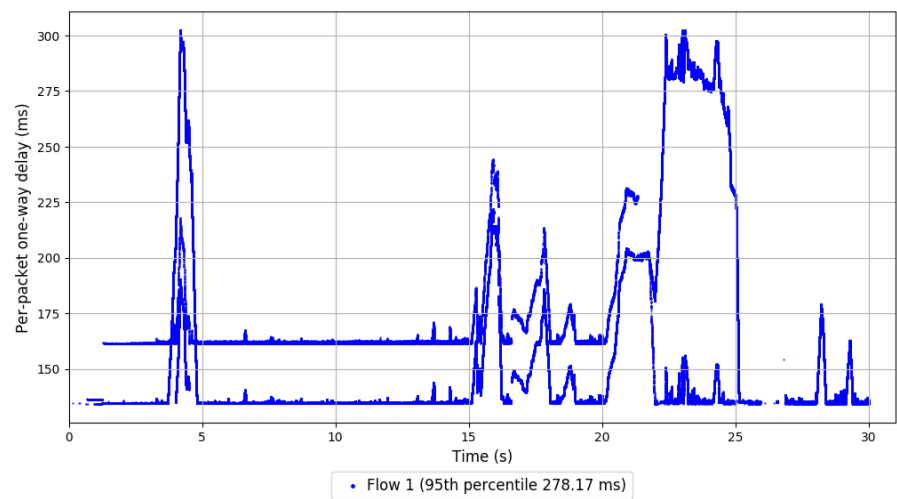
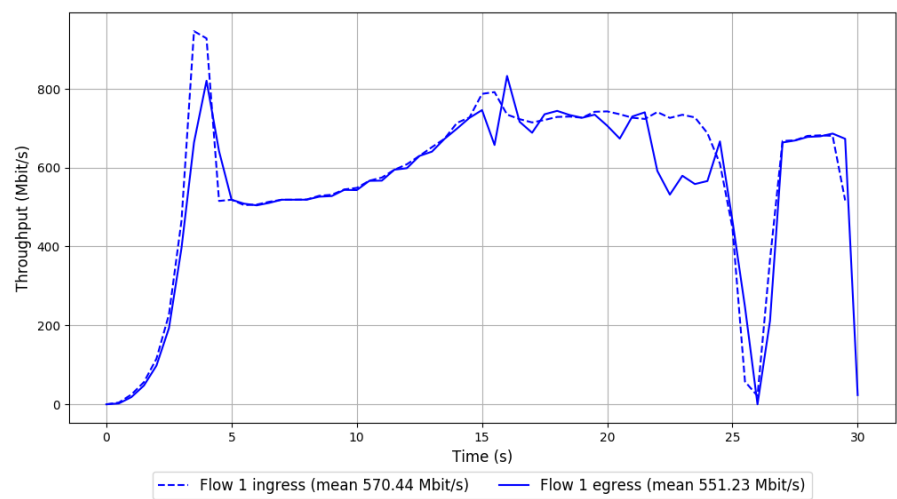
-- Flow 1:

Average throughput: 551.23 Mbit/s

95th percentile per-packet one-way delay: 278.172 ms

Loss rate: 3.37%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-13 15:18:13

End at: 2018-02-13 15:18:43

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 579.65 Mbit/s

95th percentile per-packet one-way delay: 208.526 ms

Loss rate: 1.78%

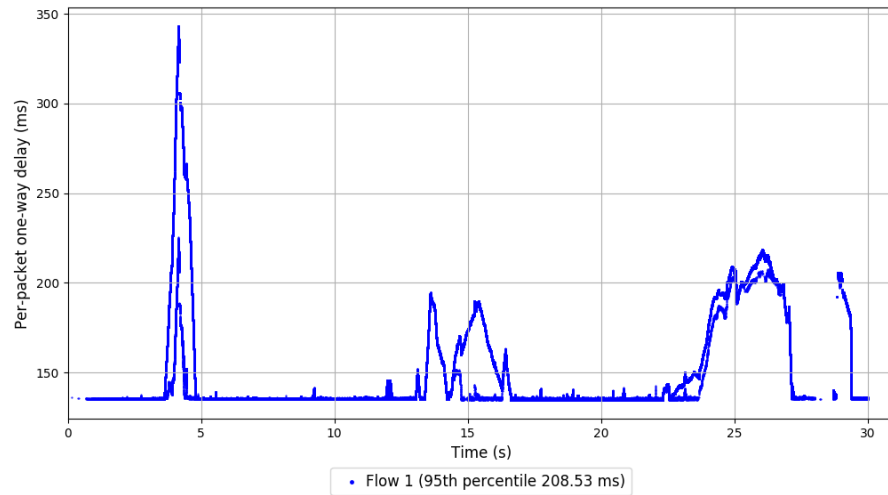
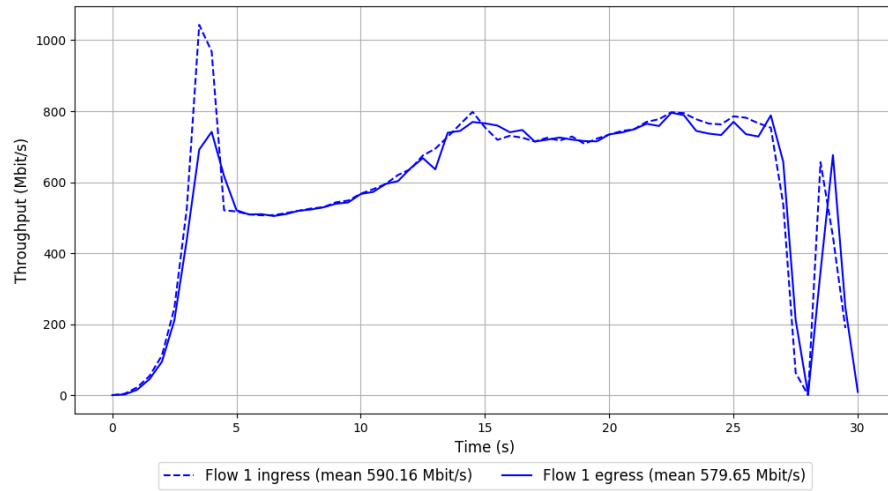
-- Flow 1:

Average throughput: 579.65 Mbit/s

95th percentile per-packet one-way delay: 208.526 ms

Loss rate: 1.78%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-13 15:34:30

End at: 2018-02-13 15:35:00

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 511.62 Mbit/s

95th percentile per-packet one-way delay: 173.424 ms

Loss rate: 1.02%

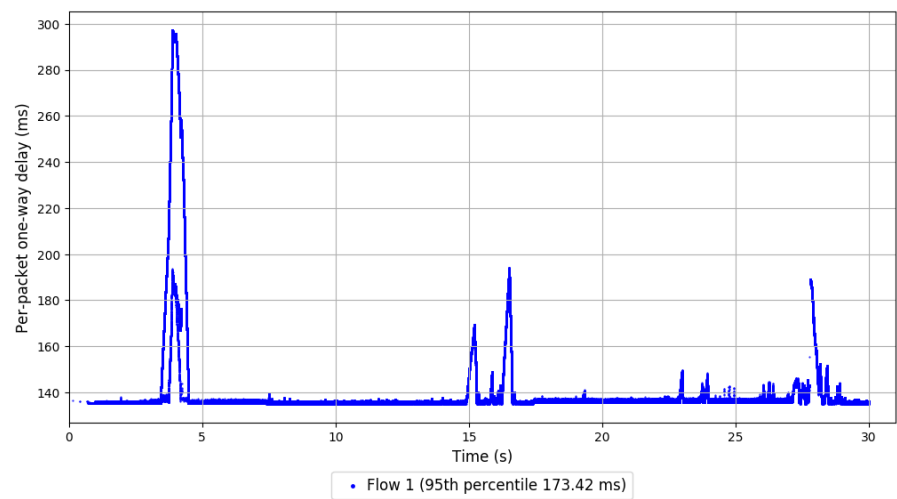
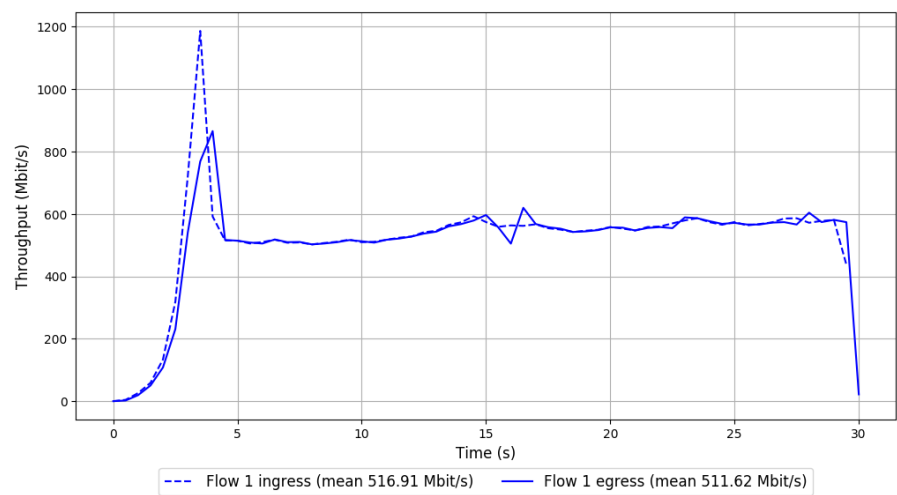
-- Flow 1:

Average throughput: 511.62 Mbit/s

95th percentile per-packet one-way delay: 173.424 ms

Loss rate: 1.02%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-13 15:50:22

End at: 2018-02-13 15:50:52

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 542.81 Mbit/s

95th percentile per-packet one-way delay: 207.448 ms

Loss rate: 1.02%

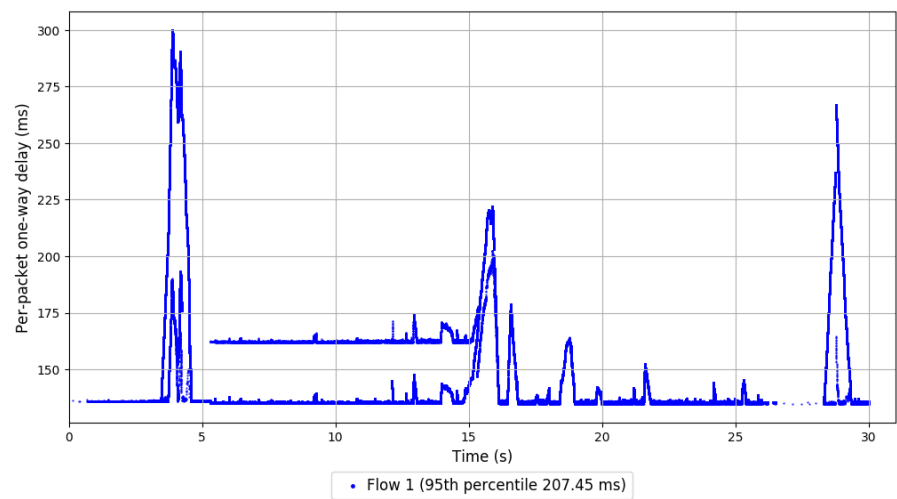
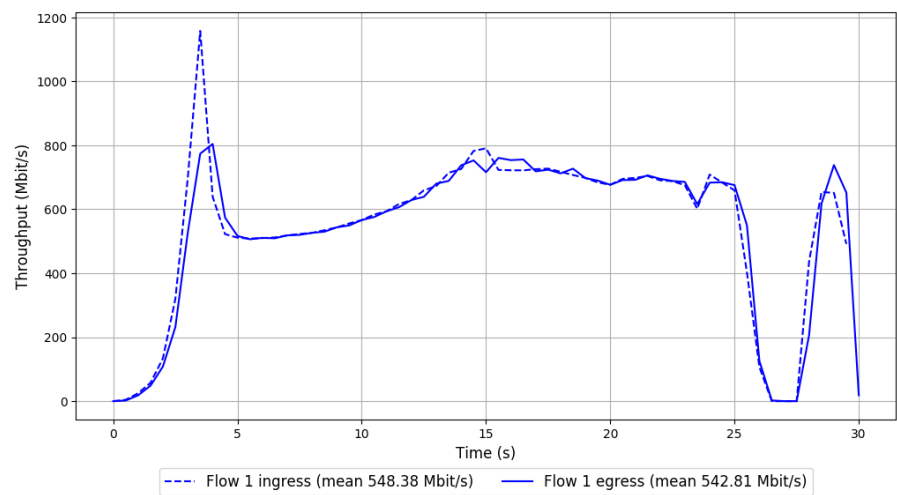
-- Flow 1:

Average throughput: 542.81 Mbit/s

95th percentile per-packet one-way delay: 207.448 ms

Loss rate: 1.02%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-13 16:06:33

End at: 2018-02-13 16:07:03

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.49 Mbit/s

95th percentile per-packet one-way delay: 161.647 ms

Loss rate: 0.00%

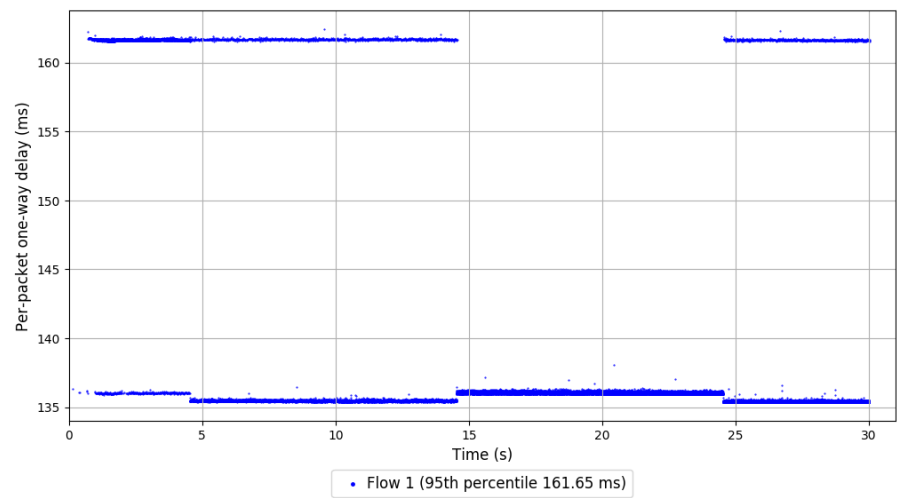
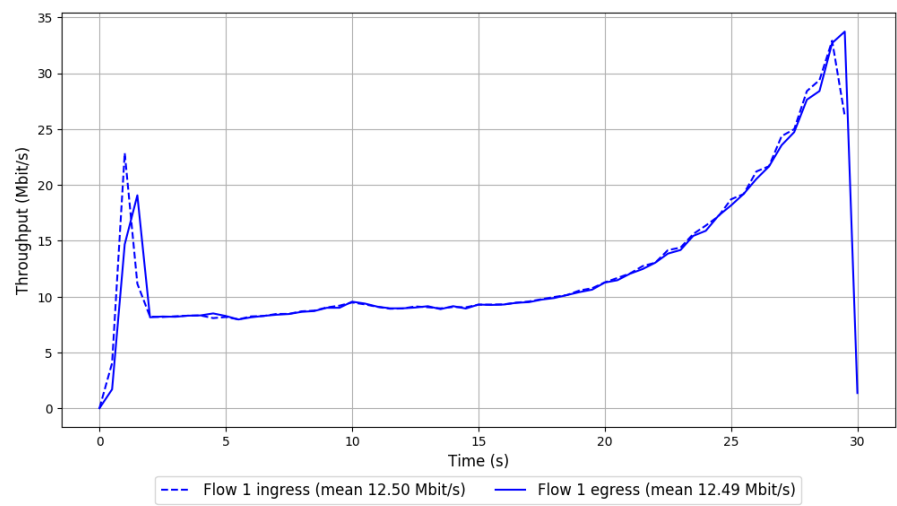
-- Flow 1:

Average throughput: 12.49 Mbit/s

95th percentile per-packet one-way delay: 161.647 ms

Loss rate: 0.00%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-13 16:22:03

End at: 2018-02-13 16:22:33

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 435.23 Mbit/s

95th percentile per-packet one-way delay: 275.620 ms

Loss rate: 4.81%

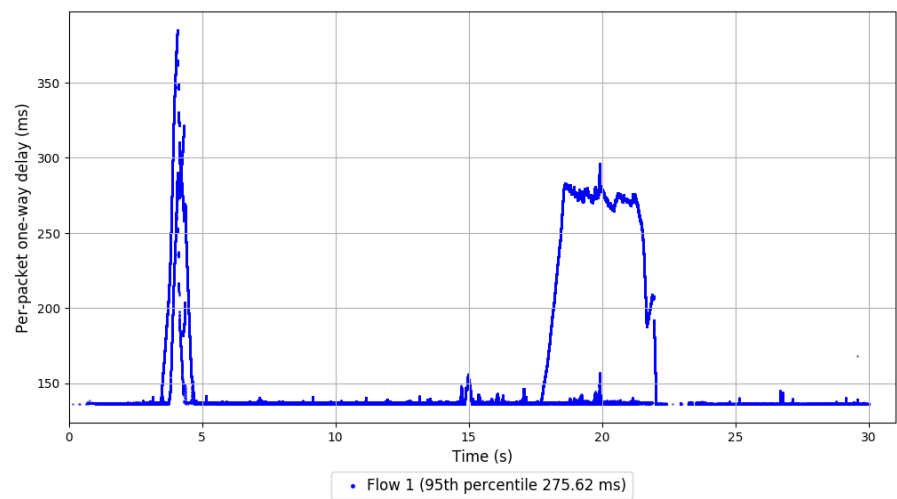
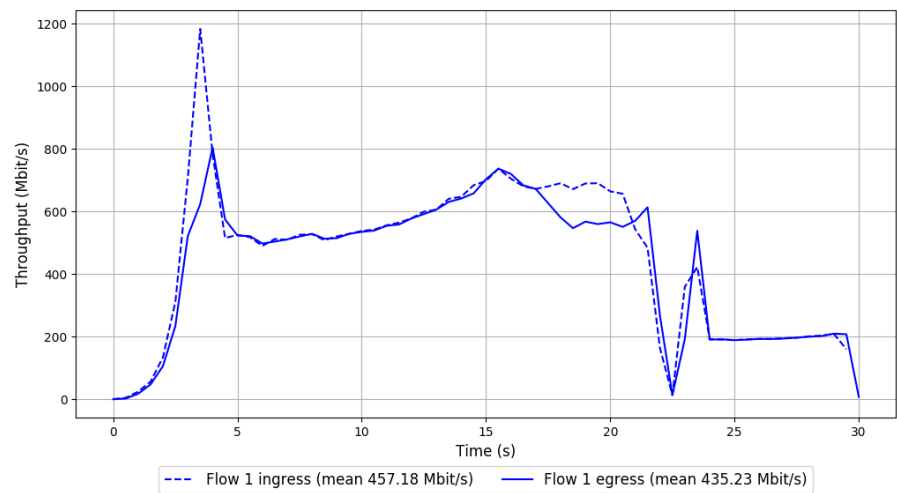
-- Flow 1:

Average throughput: 435.23 Mbit/s

95th percentile per-packet one-way delay: 275.620 ms

Loss rate: 4.81%

Run 10: Report of PCC — Data Link

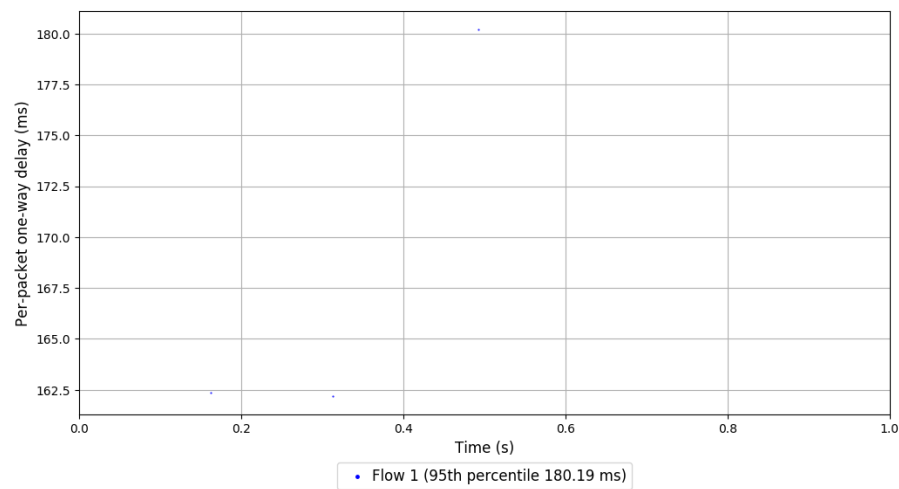
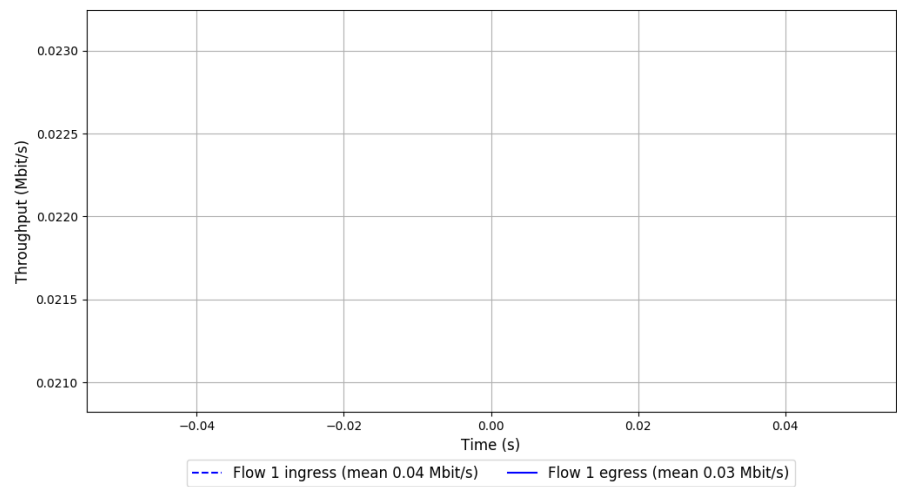


Run 1: Statistics of QUIC Cubic

Start at: 2018-02-13 13:57:12

End at: 2018-02-13 13:57:42

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

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

End at: 2018-02-13 14:13:32

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.06 Mbit/s

95th percentile per-packet one-way delay: 162.120 ms

Loss rate: 0.13%

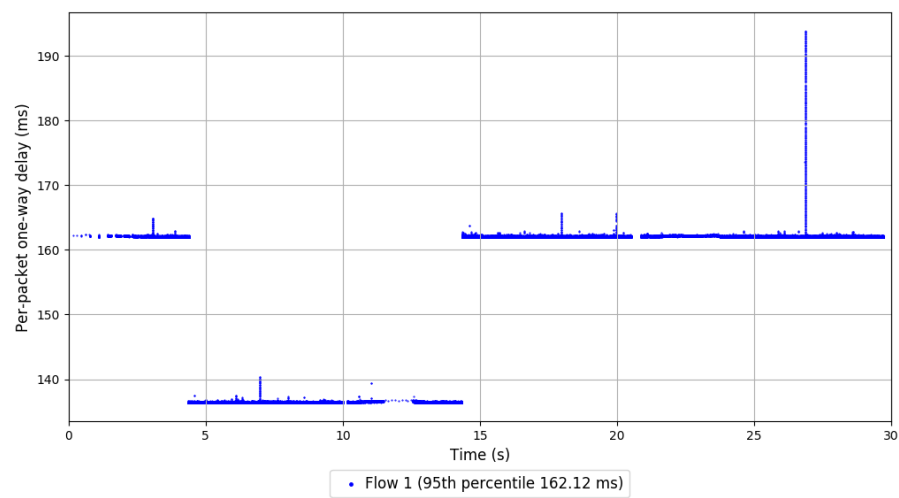
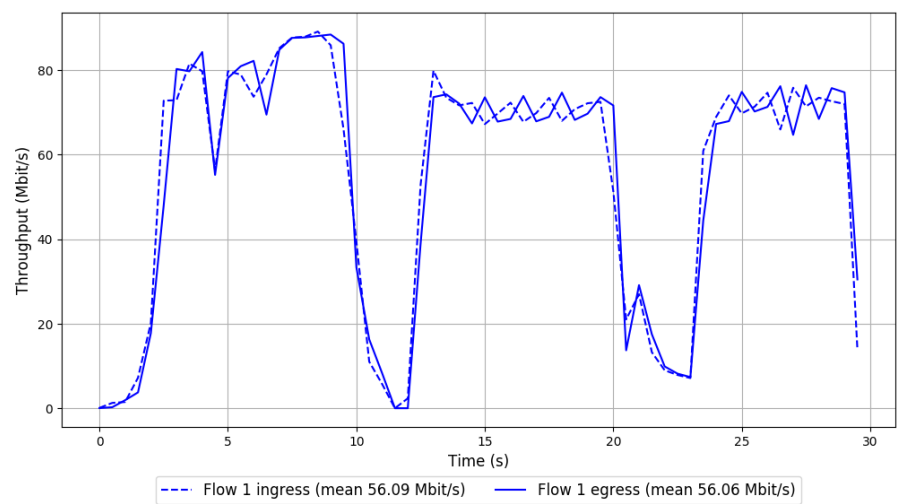
-- Flow 1:

Average throughput: 56.06 Mbit/s

95th percentile per-packet one-way delay: 162.120 ms

Loss rate: 0.13%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-13 14:29:04

End at: 2018-02-13 14:29:34

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.19 Mbit/s

95th percentile per-packet one-way delay: 161.852 ms

Loss rate: 0.00%

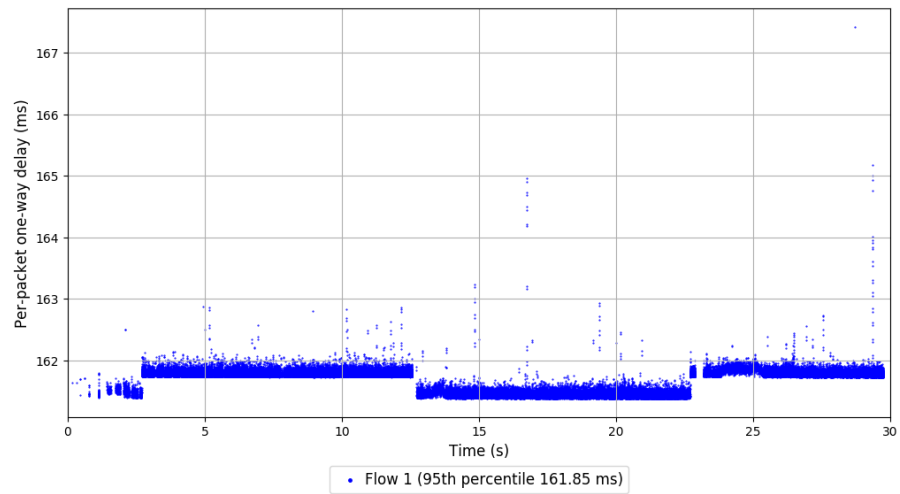
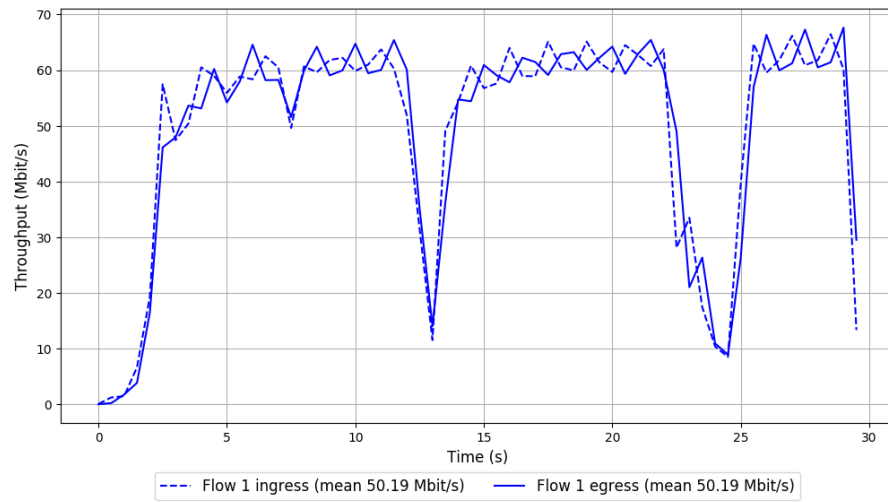
-- Flow 1:

Average throughput: 50.19 Mbit/s

95th percentile per-packet one-way delay: 161.852 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-13 14:45:08

End at: 2018-02-13 14:45:38

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.03 Mbit/s

95th percentile per-packet one-way delay: 161.707 ms

Loss rate: 0.00%

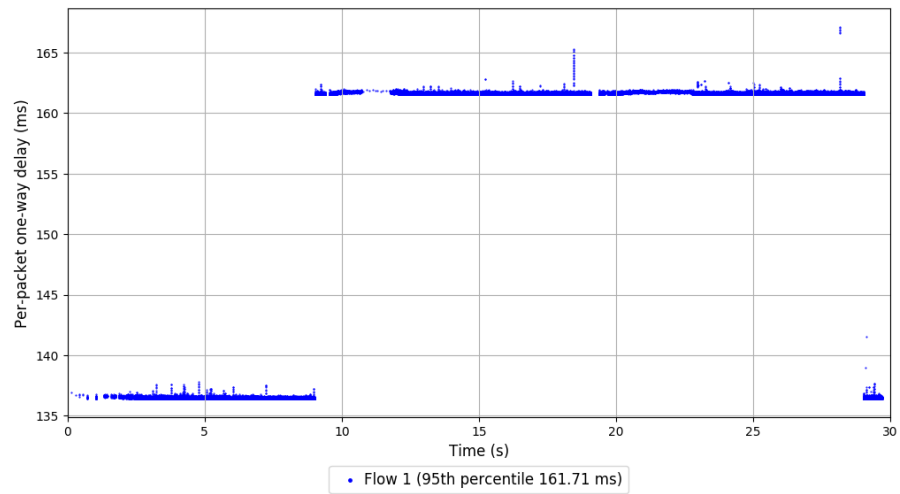
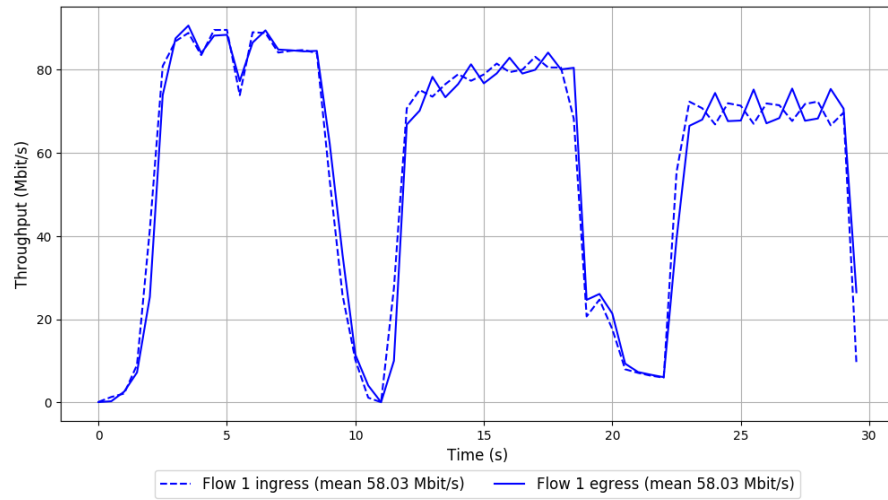
-- Flow 1:

Average throughput: 58.03 Mbit/s

95th percentile per-packet one-way delay: 161.707 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-13 15:00:59

End at: 2018-02-13 15:01:29

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.89 Mbit/s

95th percentile per-packet one-way delay: 136.174 ms

Loss rate: 0.00%

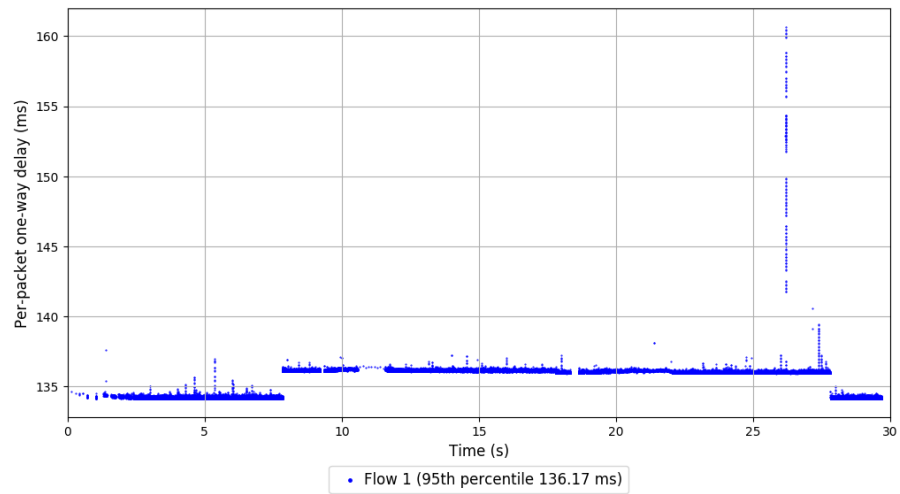
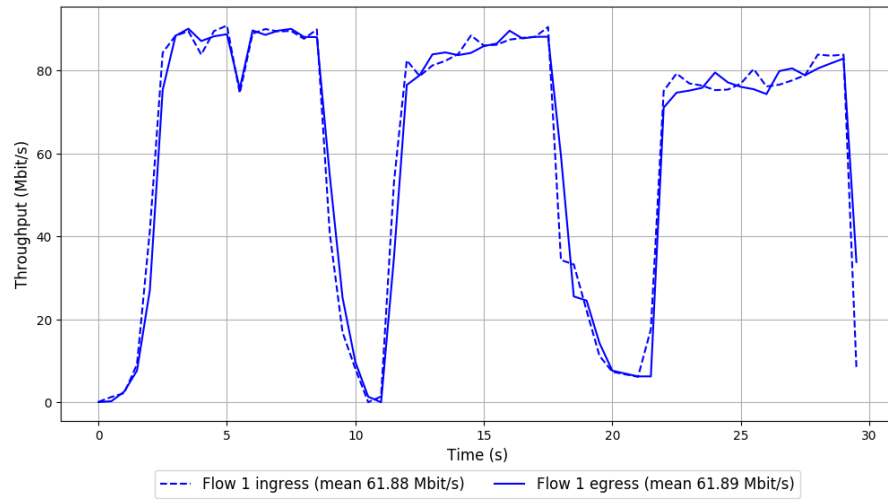
-- Flow 1:

Average throughput: 61.89 Mbit/s

95th percentile per-packet one-way delay: 136.174 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-13 15:17:26

End at: 2018-02-13 15:17:56

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.58 Mbit/s

95th percentile per-packet one-way delay: 135.956 ms

Loss rate: 0.00%

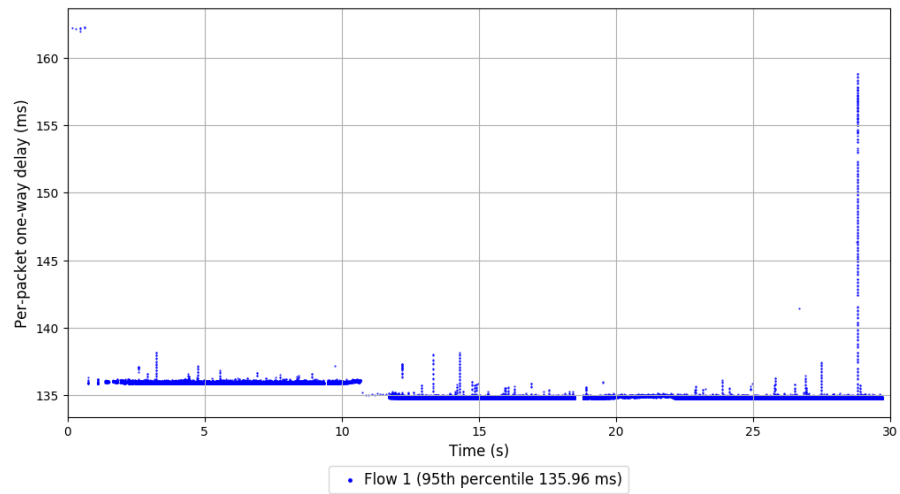
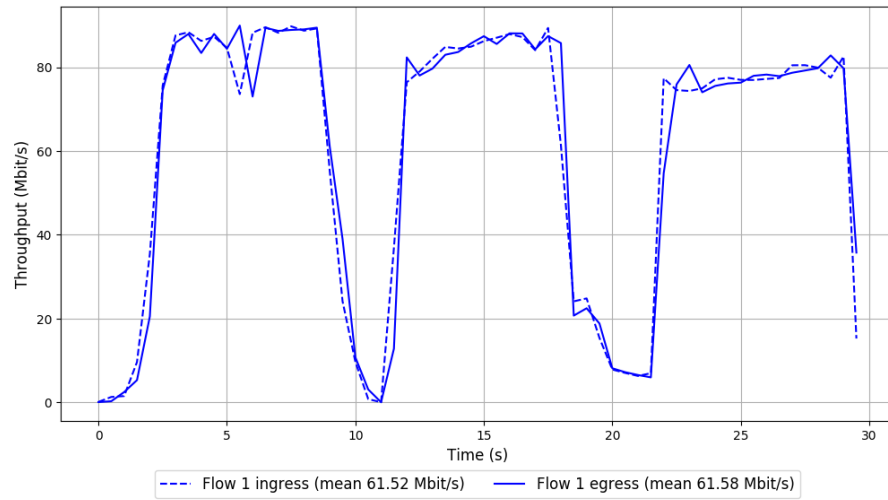
-- Flow 1:

Average throughput: 61.58 Mbit/s

95th percentile per-packet one-way delay: 135.956 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-13 15:33:44

End at: 2018-02-13 15:34:14

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.84 Mbit/s

95th percentile per-packet one-way delay: 161.237 ms

Loss rate: 0.08%

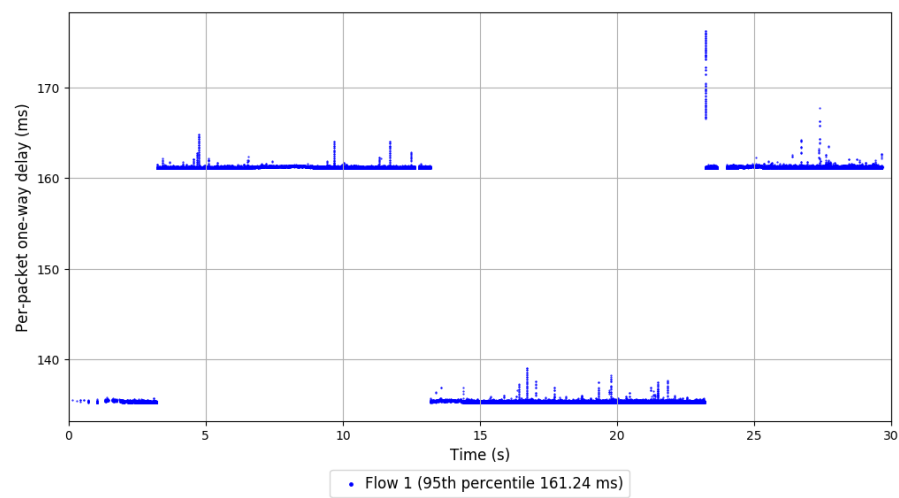
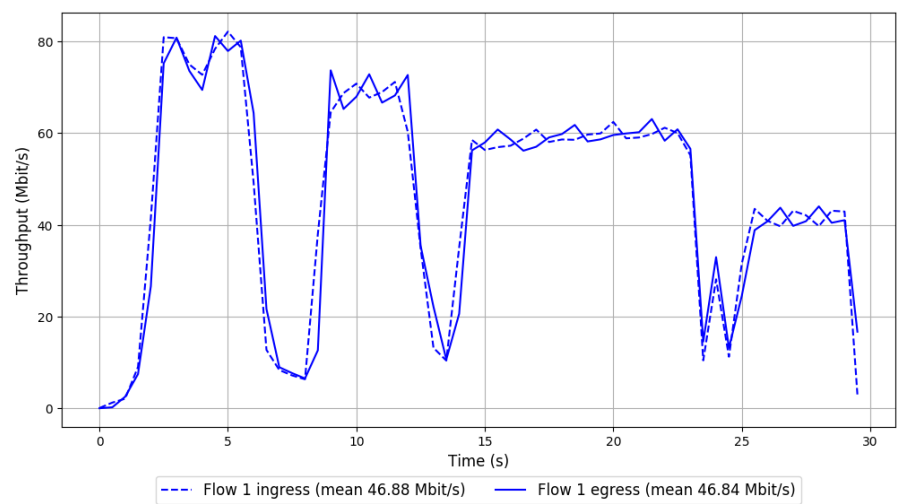
-- Flow 1:

Average throughput: 46.84 Mbit/s

95th percentile per-packet one-way delay: 161.237 ms

Loss rate: 0.08%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-13 15:49:35

End at: 2018-02-13 15:50:05

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.44 Mbit/s

95th percentile per-packet one-way delay: 135.122 ms

Loss rate: 0.00%

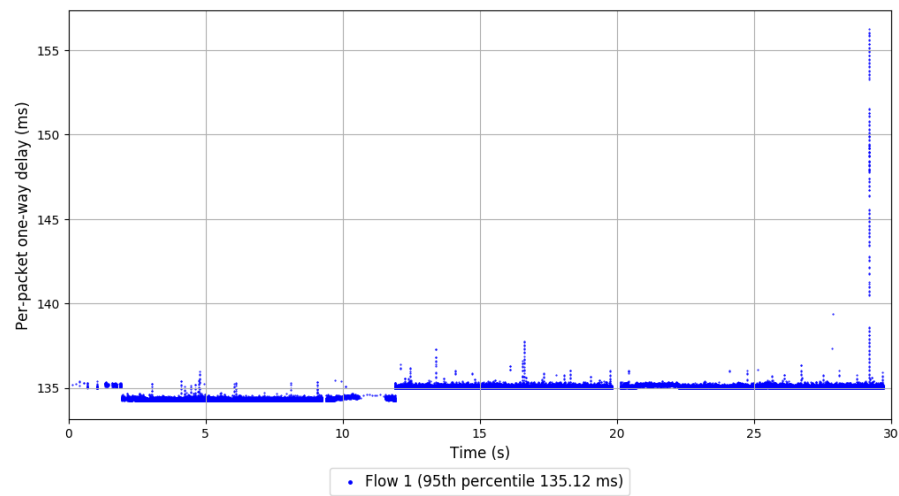
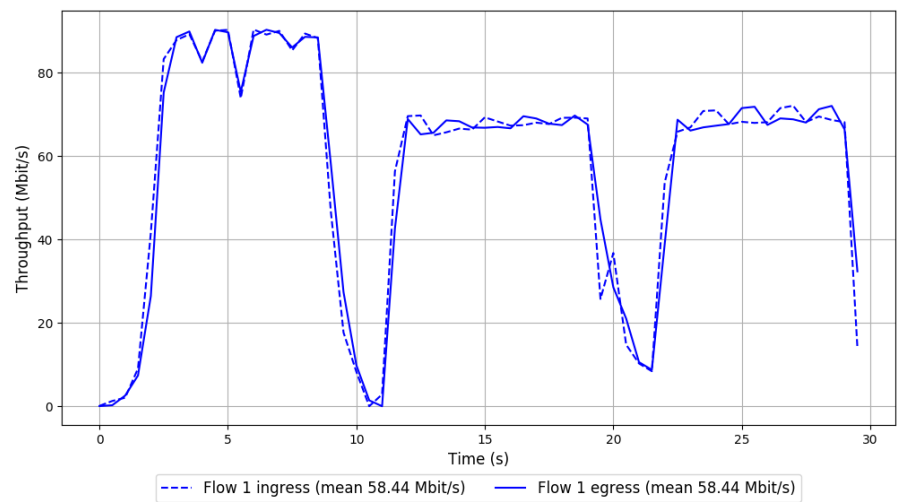
-- Flow 1:

Average throughput: 58.44 Mbit/s

95th percentile per-packet one-way delay: 135.122 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-13 16:05:47

End at: 2018-02-13 16:06:17

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.62 Mbit/s

95th percentile per-packet one-way delay: 162.199 ms

Loss rate: 0.00%

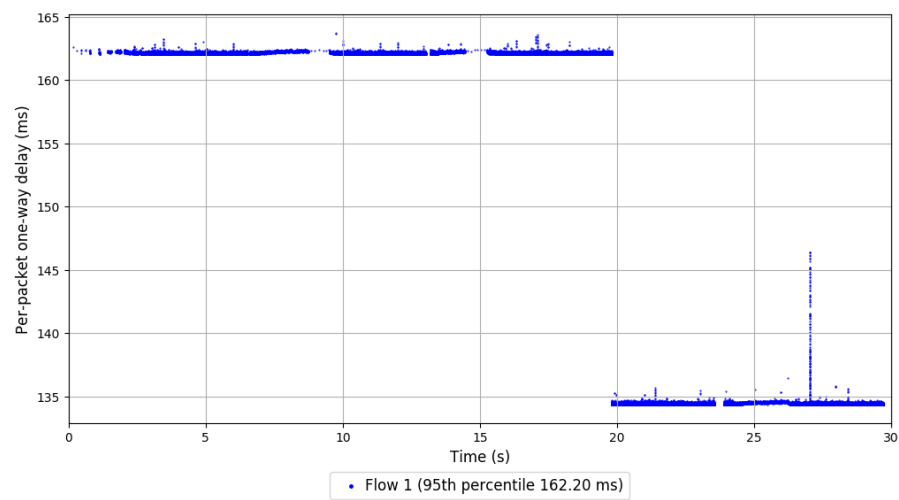
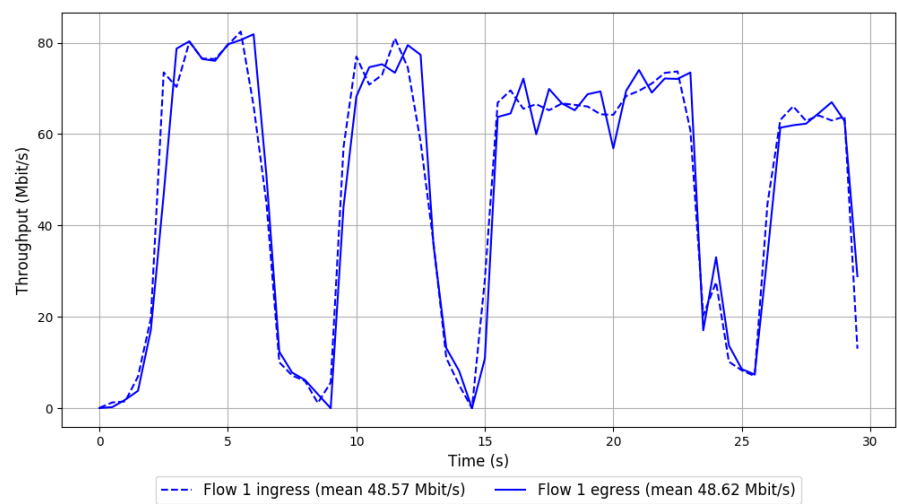
-- Flow 1:

Average throughput: 48.62 Mbit/s

95th percentile per-packet one-way delay: 162.199 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

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

End at: 2018-02-13 16:21:46

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.34 Mbit/s

95th percentile per-packet one-way delay: 136.322 ms

Loss rate: 0.00%

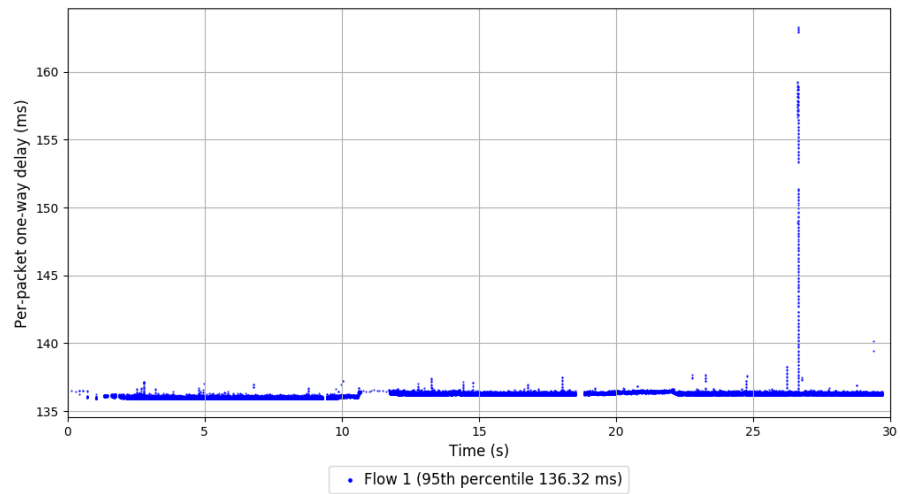
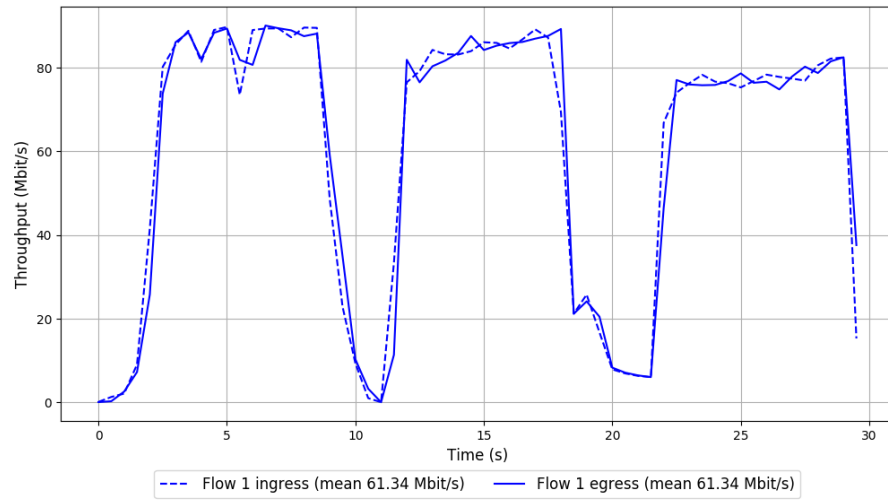
-- Flow 1:

Average throughput: 61.34 Mbit/s

95th percentile per-packet one-way delay: 136.322 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

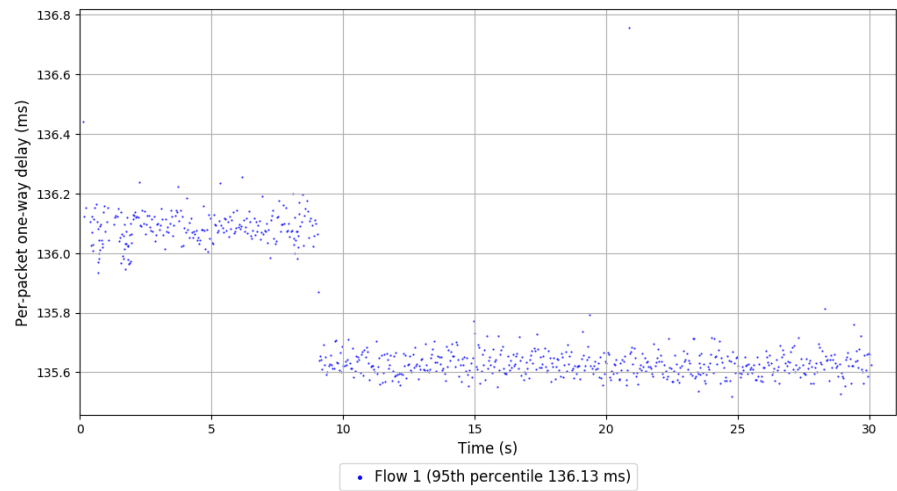
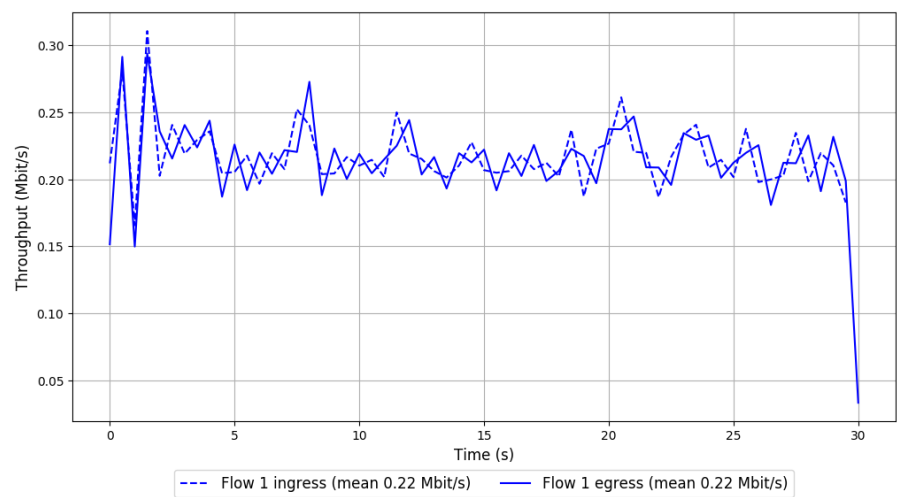


```
Run 1: Statistics of SCReAM

Start at: 2018-02-13 13:50:48
End at: 2018-02-13 13:51:18

# Below is generated by plot.py at 2018-02-13 17:42:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.130 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.130 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

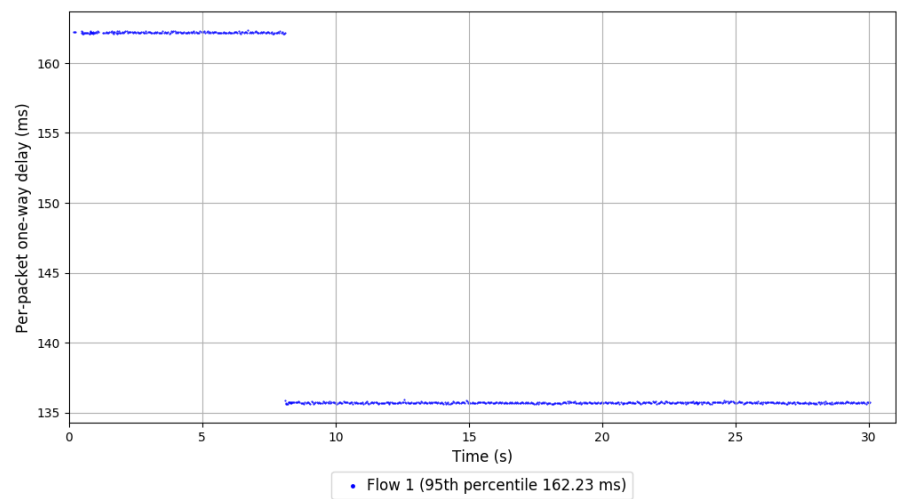
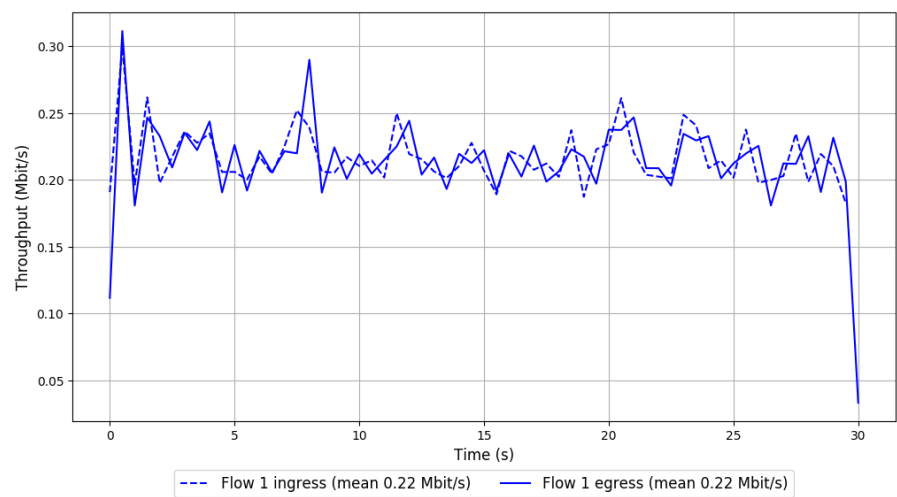


```
Run 2: Statistics of SCReAM

Start at: 2018-02-13 14:06:39
End at: 2018-02-13 14:07:09

# Below is generated by plot.py at 2018-02-13 17:42:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 162.234 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 162.234 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-13 14:22:51

End at: 2018-02-13 14:23:21

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 162.980 ms

Loss rate: 0.00%

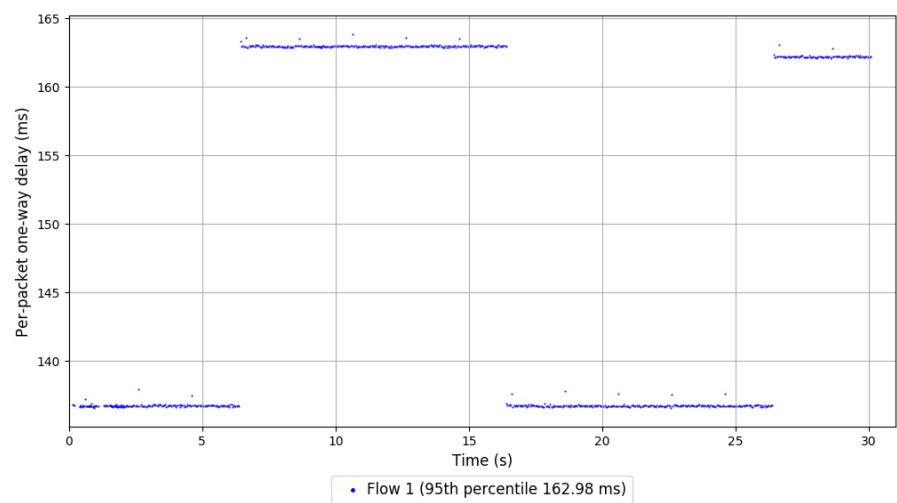
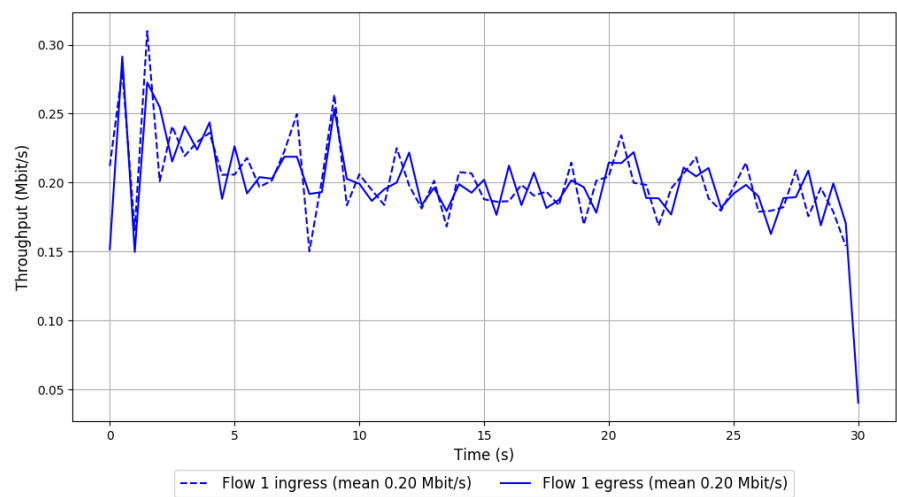
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 162.980 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-02-13 14:38:29

End at: 2018-02-13 14:38:59

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 162.577 ms

Loss rate: 0.00%

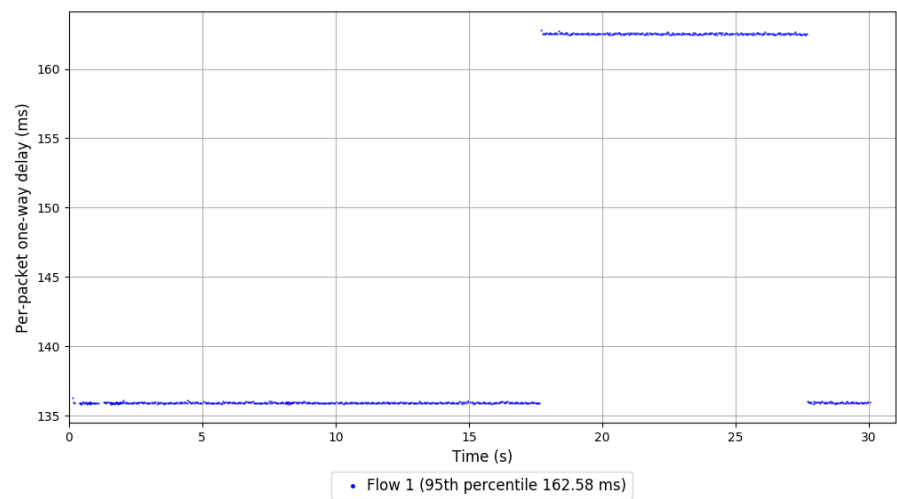
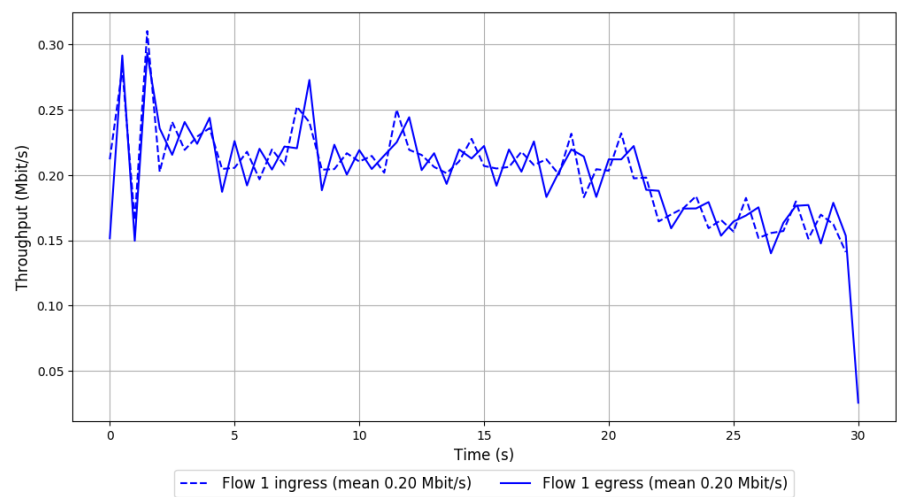
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 162.577 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-13 14:54:41

End at: 2018-02-13 14:55:11

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 161.936 ms

Loss rate: 0.13%

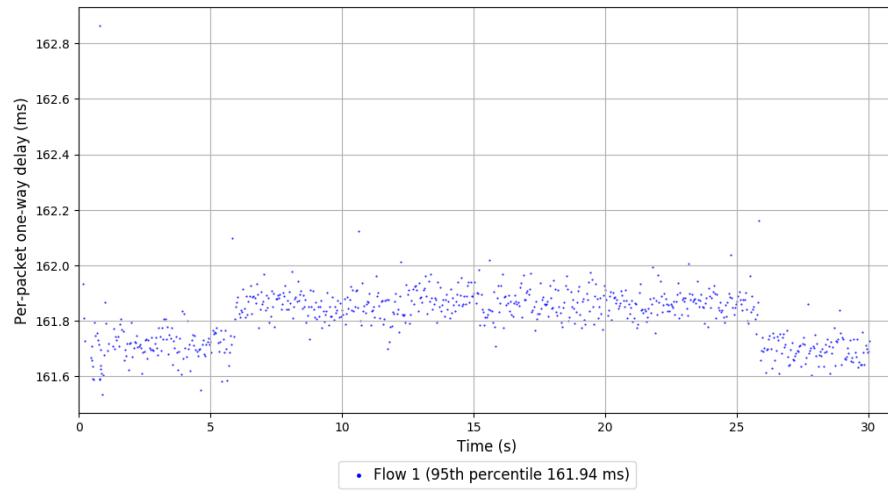
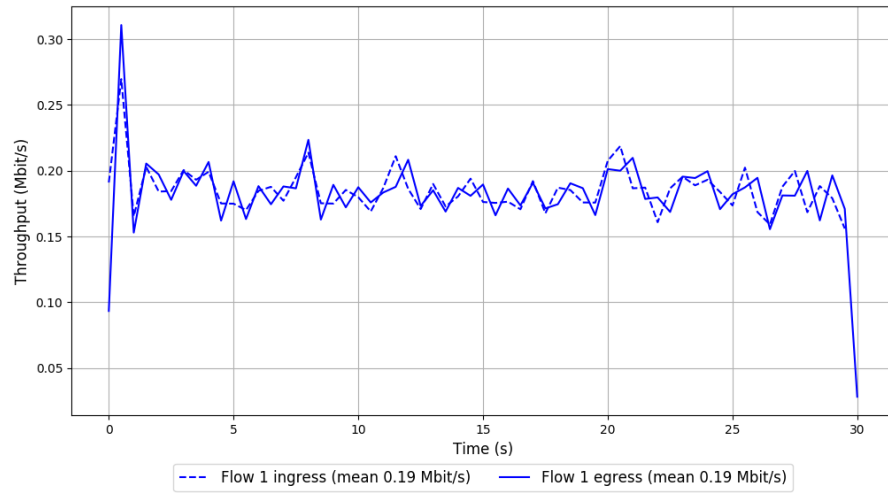
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 161.936 ms

Loss rate: 0.13%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-13 15:10:47

End at: 2018-02-13 15:11:17

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 161.838 ms

Loss rate: 0.00%

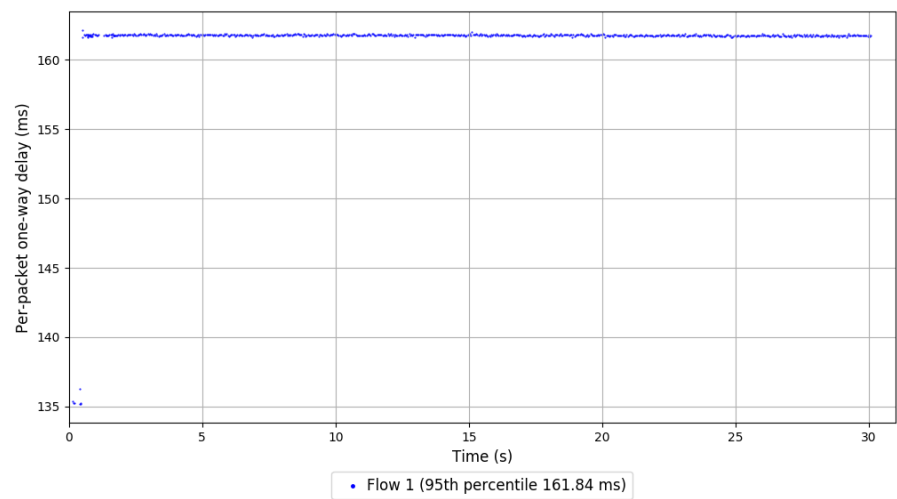
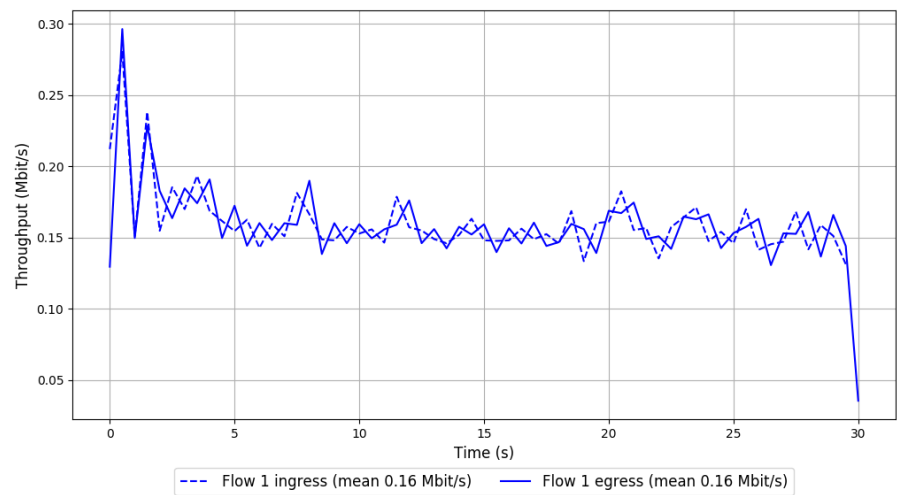
-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 161.838 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-13 15:27:05

End at: 2018-02-13 15:27:35

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 162.376 ms

Loss rate: 0.09%

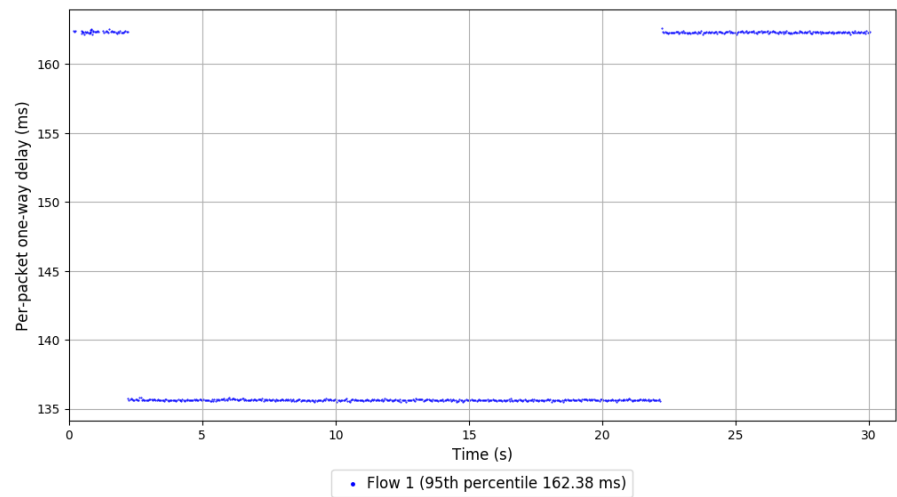
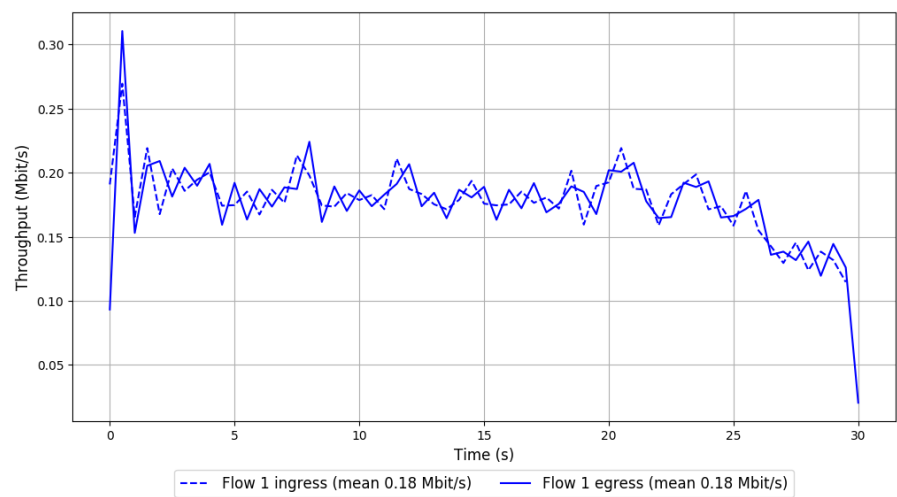
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 162.376 ms

Loss rate: 0.09%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-13 15:43:10

End at: 2018-02-13 15:43:40

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 162.738 ms

Loss rate: 0.11%

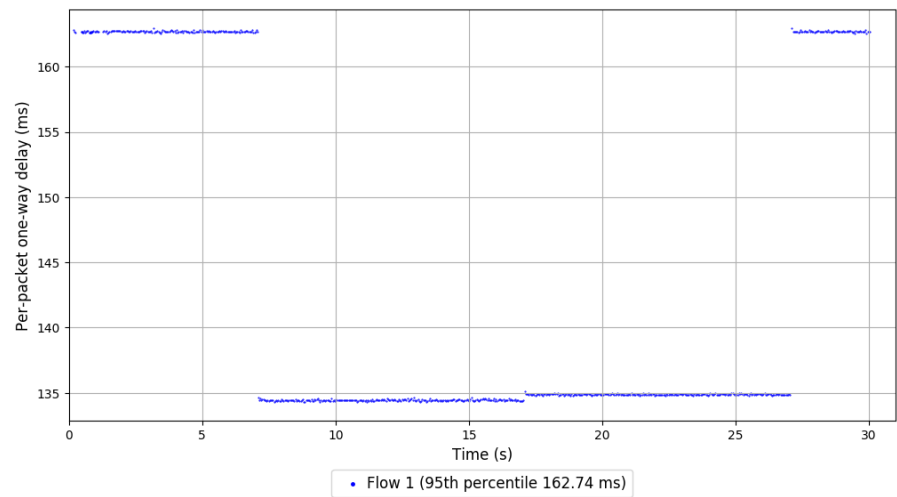
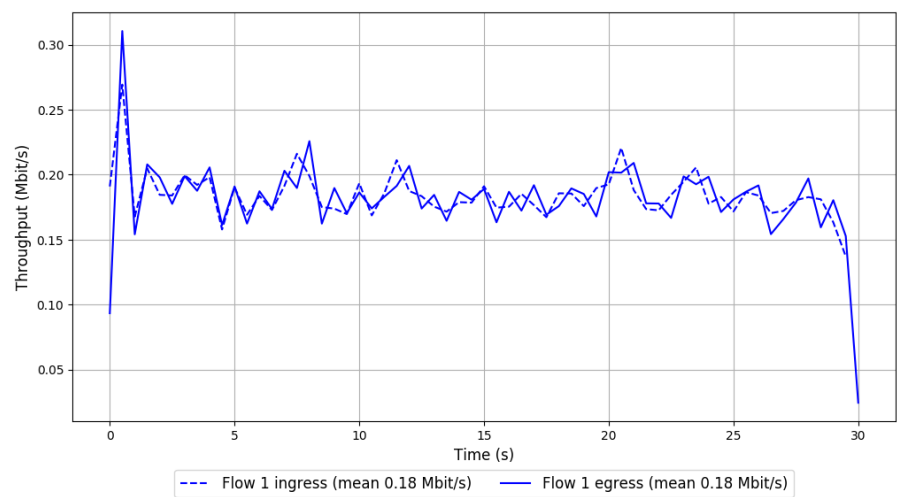
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 162.738 ms

Loss rate: 0.11%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-13 15:59:20

End at: 2018-02-13 15:59:50

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 161.831 ms

Loss rate: 0.00%

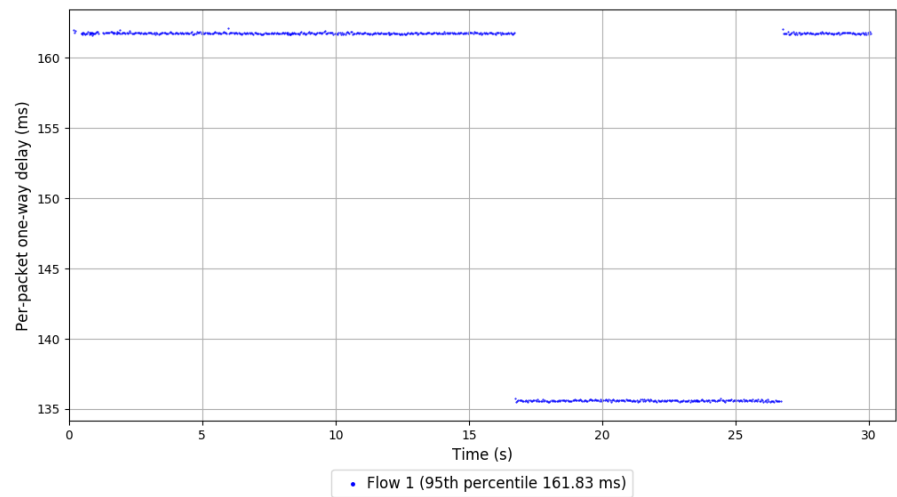
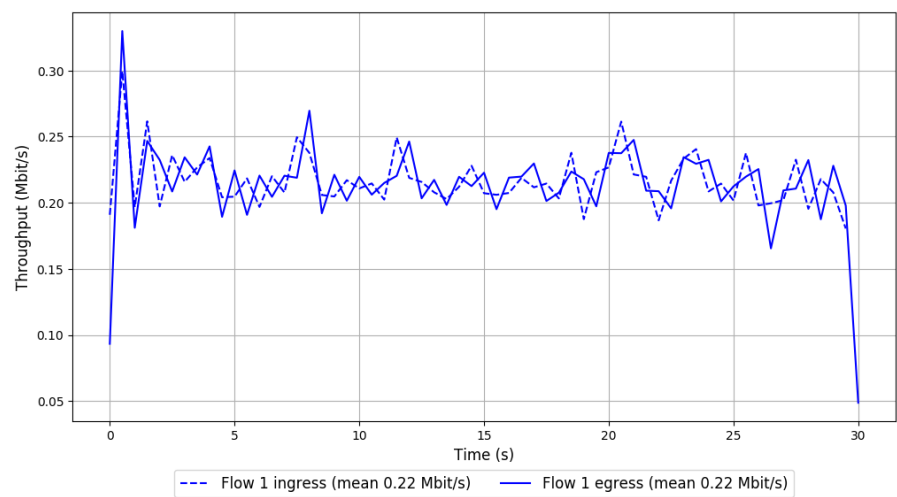
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 161.831 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-13 16:14:58

End at: 2018-02-13 16:15:28

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 163.118 ms

Loss rate: 0.00%

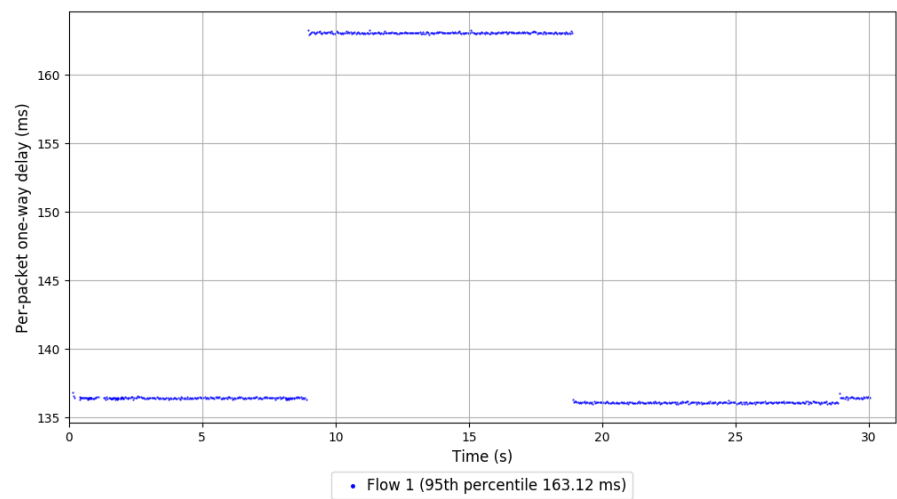
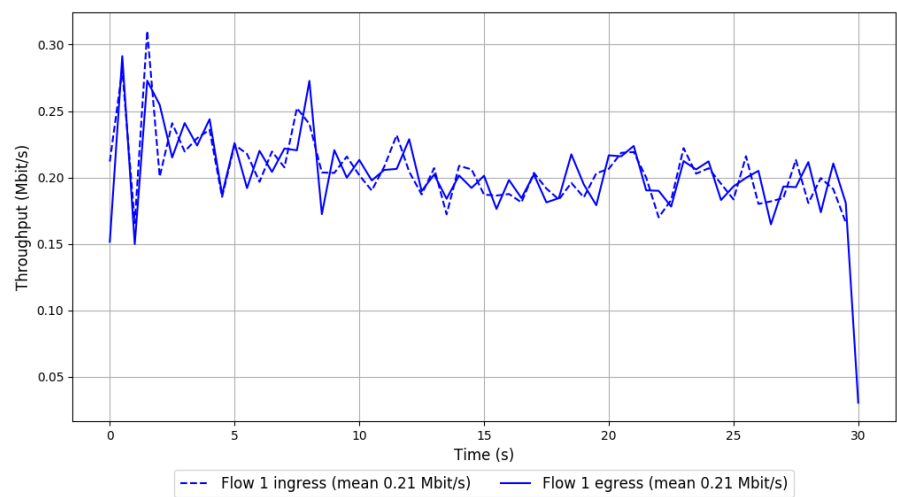
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 163.118 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

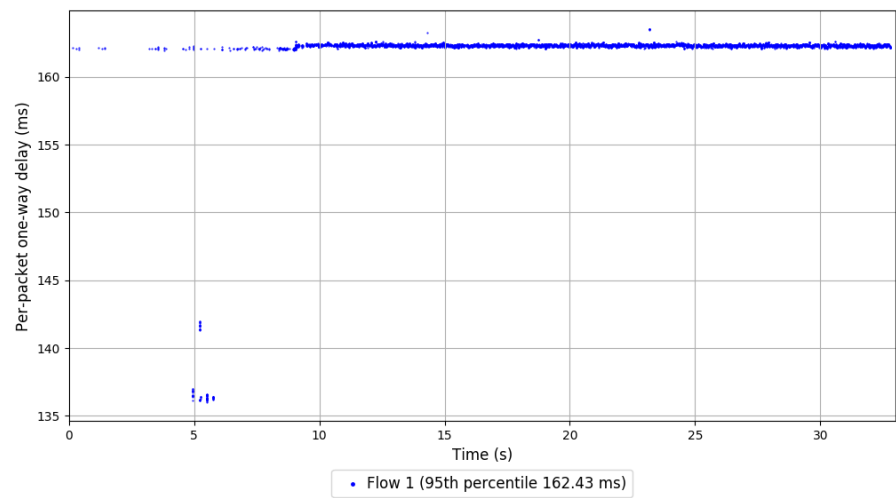
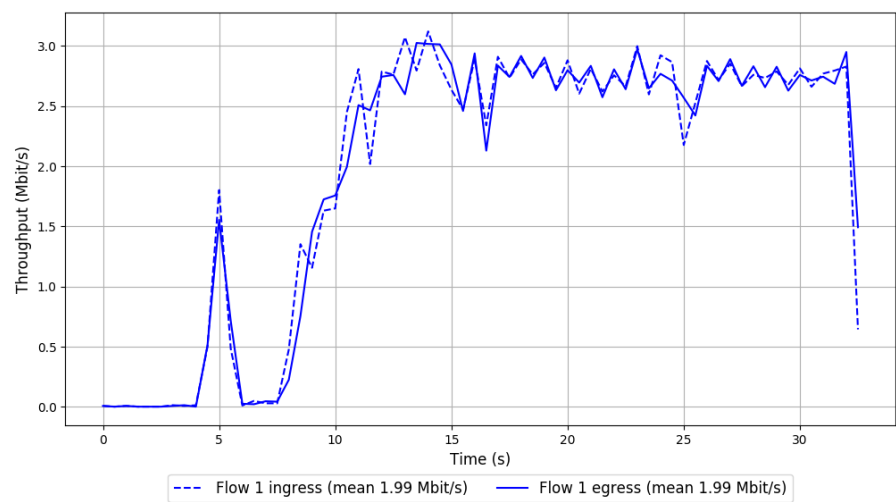


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-13 13:44:31
End at: 2018-02-13 13:45:01

# Below is generated by plot.py at 2018-02-13 17:42:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 162.431 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 162.431 ms
Loss rate: 0.05%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-13 14:00:41

End at: 2018-02-13 14:01:11

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 162.944 ms

Loss rate: 0.00%

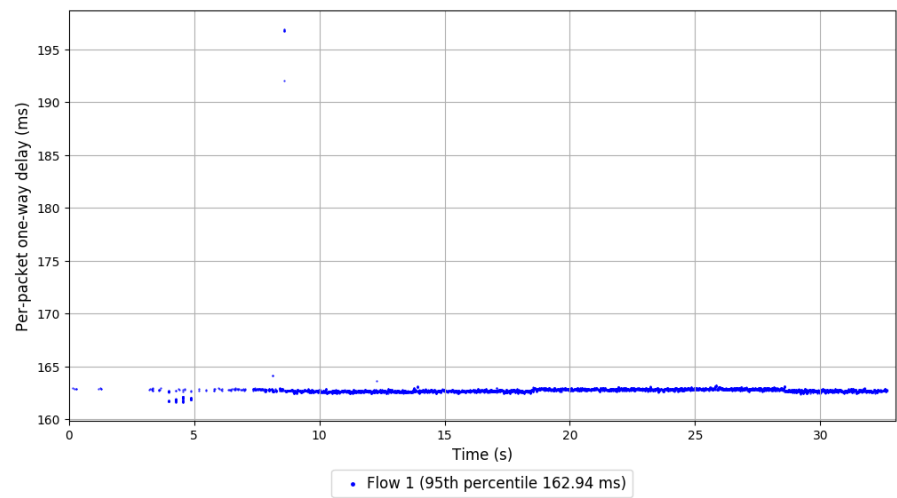
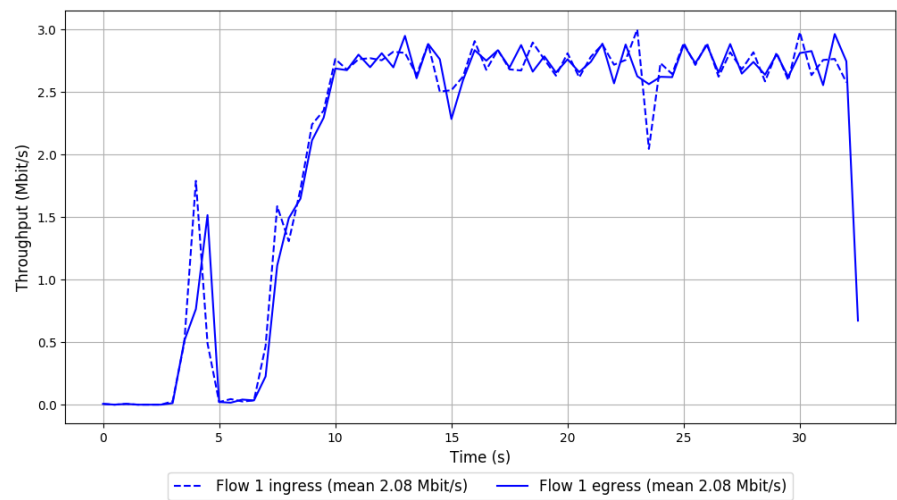
-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 162.944 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-13 14:16:36

End at: 2018-02-13 14:17:06

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 161.831 ms

Loss rate: 0.00%

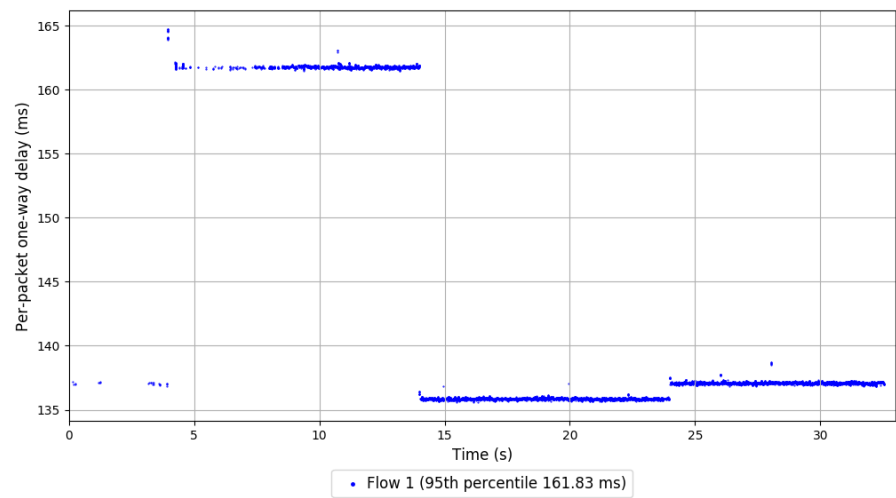
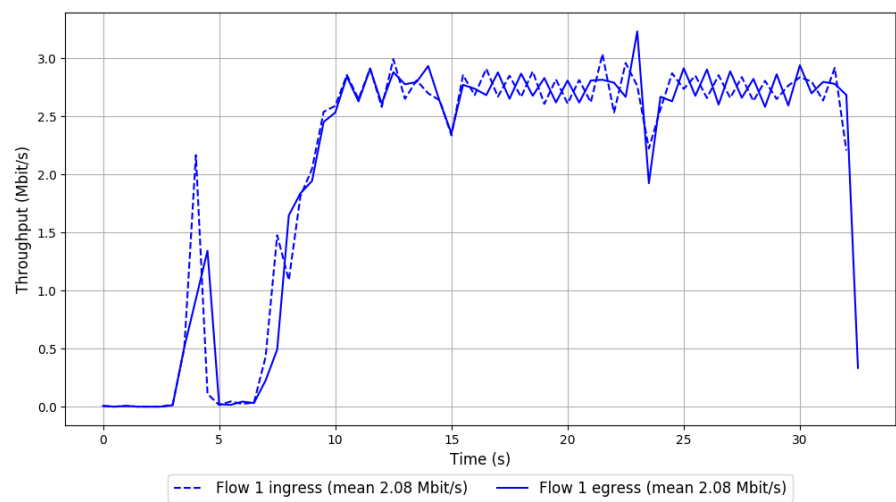
-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 161.831 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-13 14:32:15

End at: 2018-02-13 14:32:45

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 135.637 ms

Loss rate: 0.00%

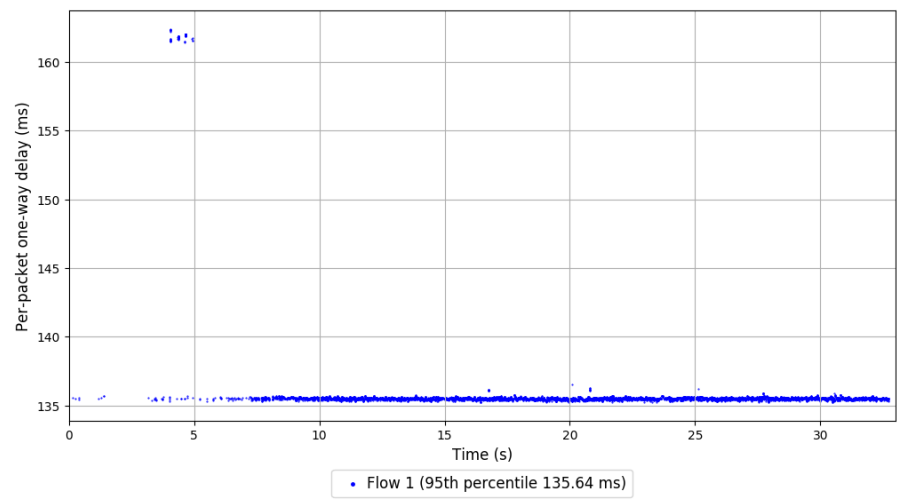
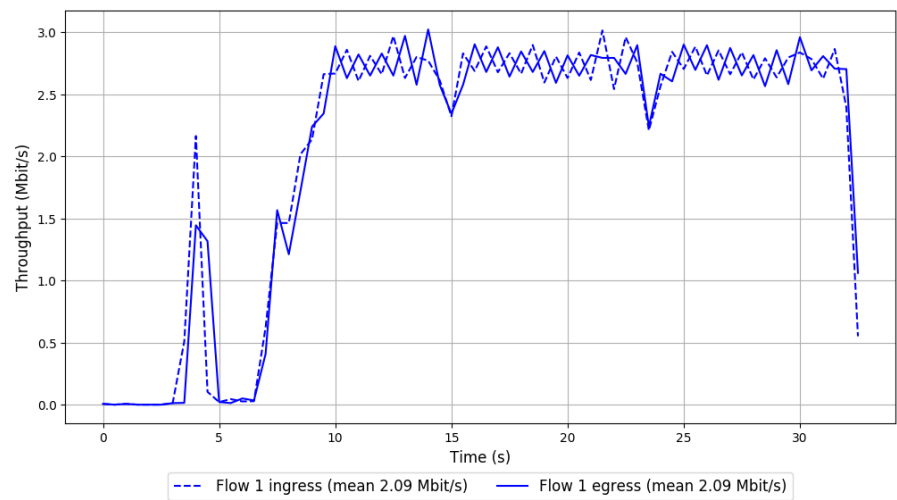
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 135.637 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-13 14:48:23

End at: 2018-02-13 14:48:53

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.372 ms

Loss rate: 0.00%

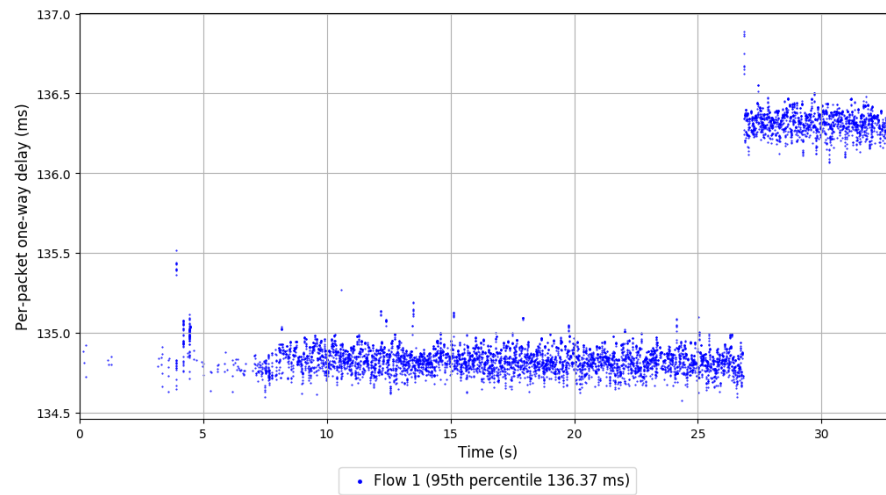
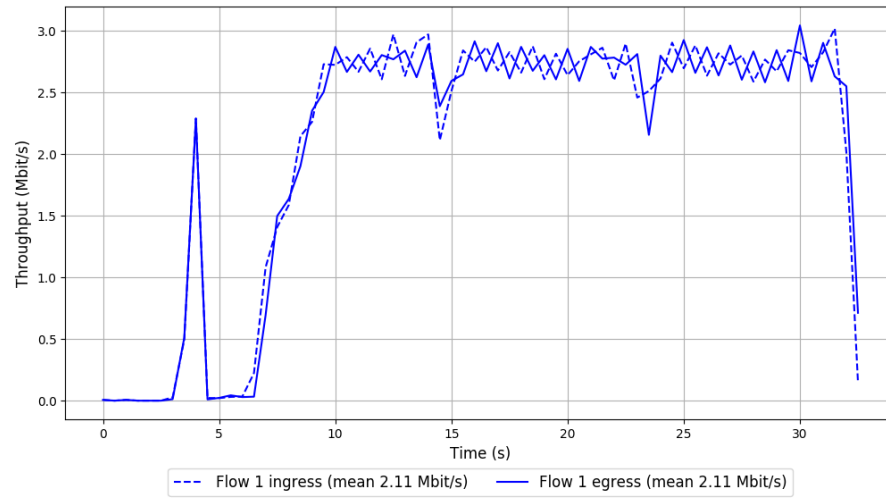
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.372 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-13 15:04:35

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

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.352 ms

Loss rate: 0.00%

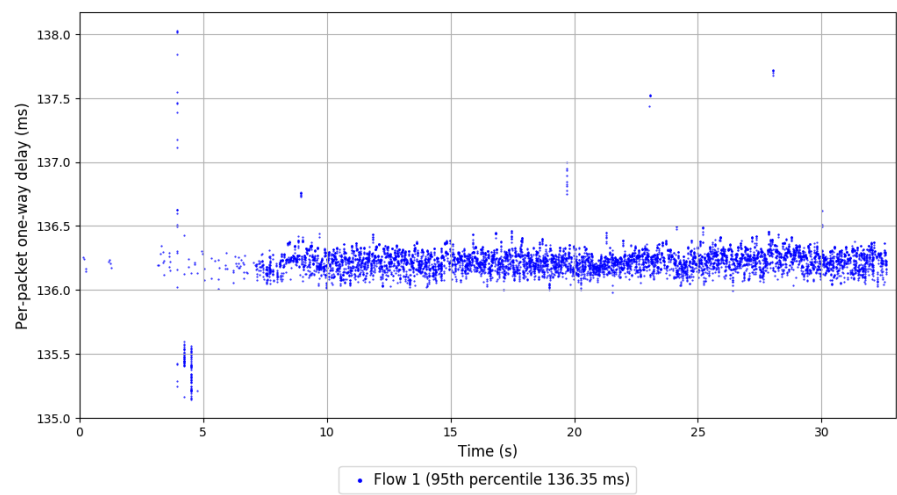
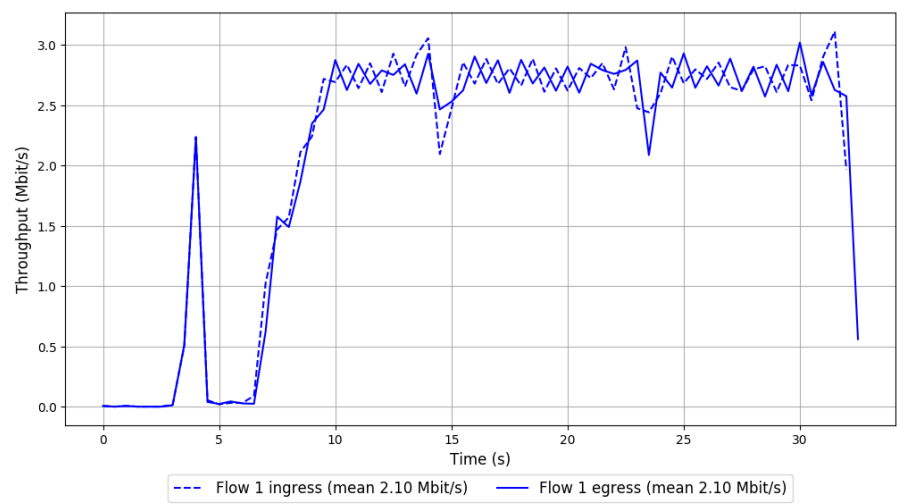
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.352 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-13 15:21:04

End at: 2018-02-13 15:21:34

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 162.425 ms

Loss rate: 0.00%

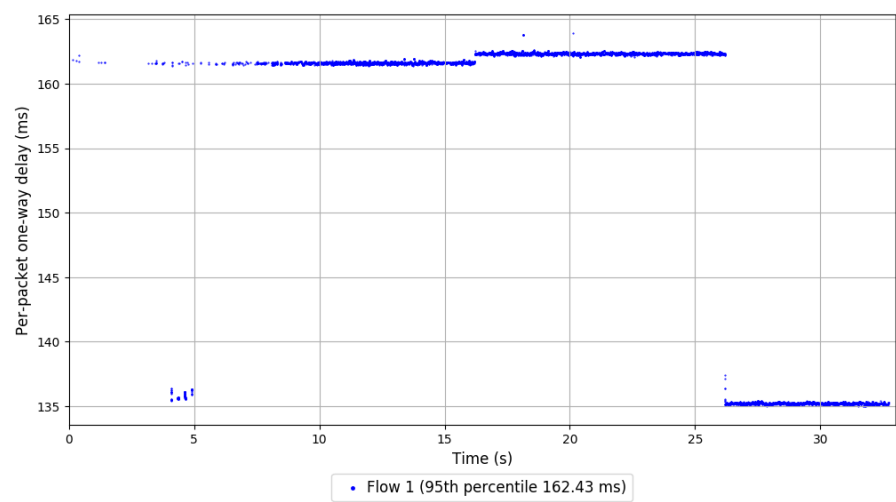
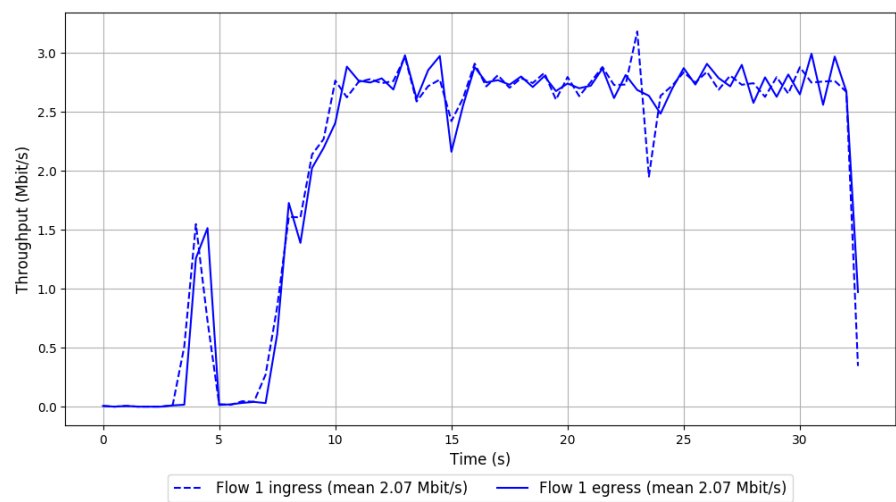
-- Flow 1:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 162.425 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-13 15:37:17

End at: 2018-02-13 15:37:47

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.309 ms

Loss rate: 0.00%

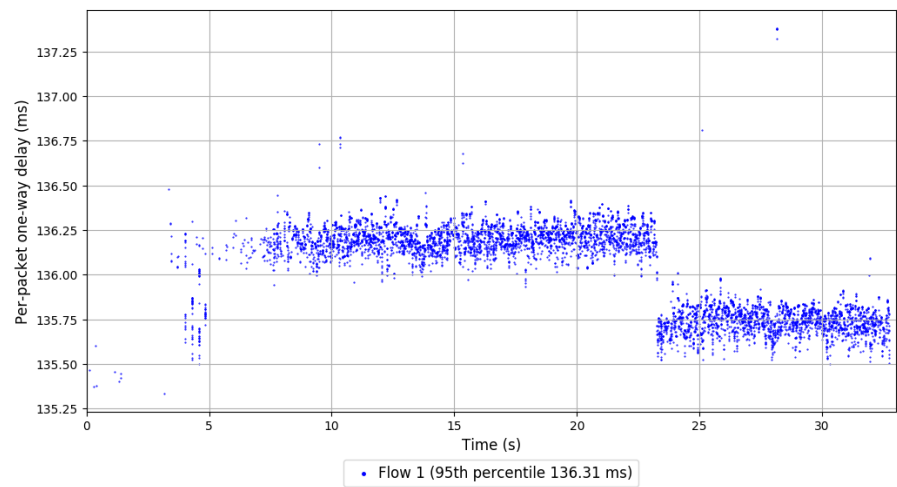
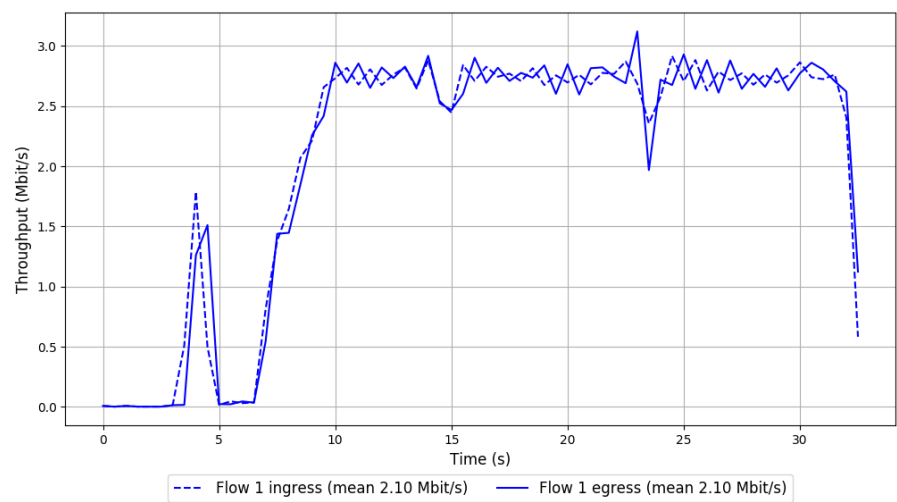
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.309 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-13 15:53:09

End at: 2018-02-13 15:53:39

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 135.560 ms

Loss rate: 0.00%

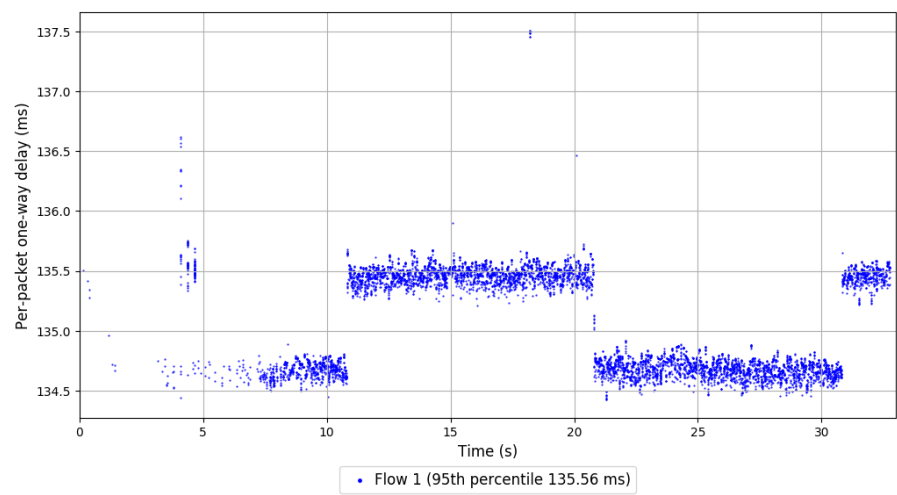
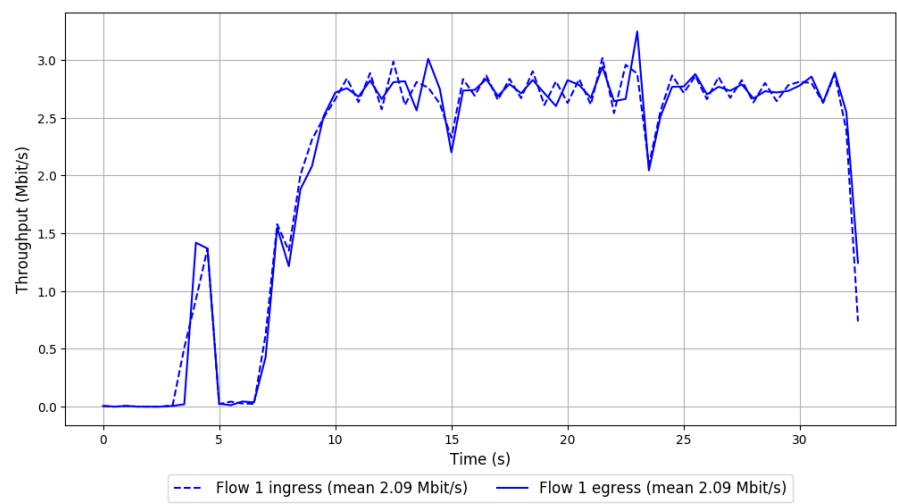
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 135.560 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-13 16:09:01

End at: 2018-02-13 16:09:31

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 162.120 ms

Loss rate: 0.00%

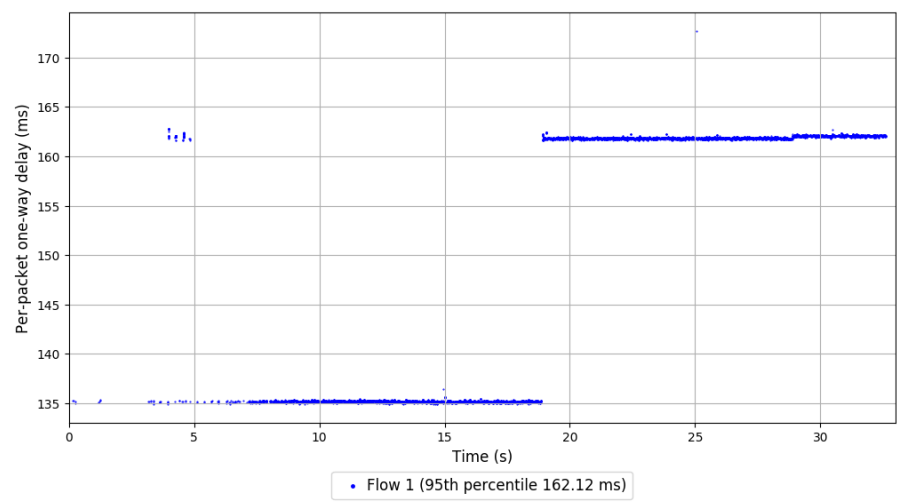
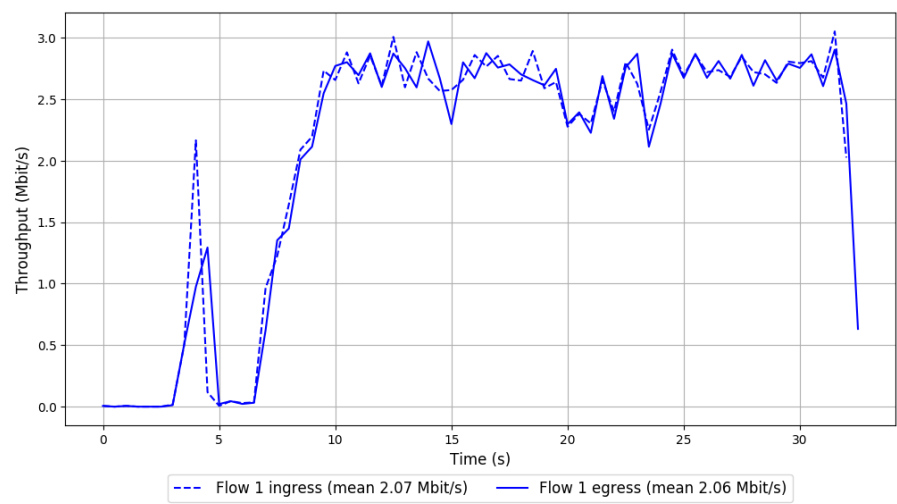
-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 162.120 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-13 13:52:42

End at: 2018-02-13 13:53:12

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 161.827 ms

Loss rate: 0.01%

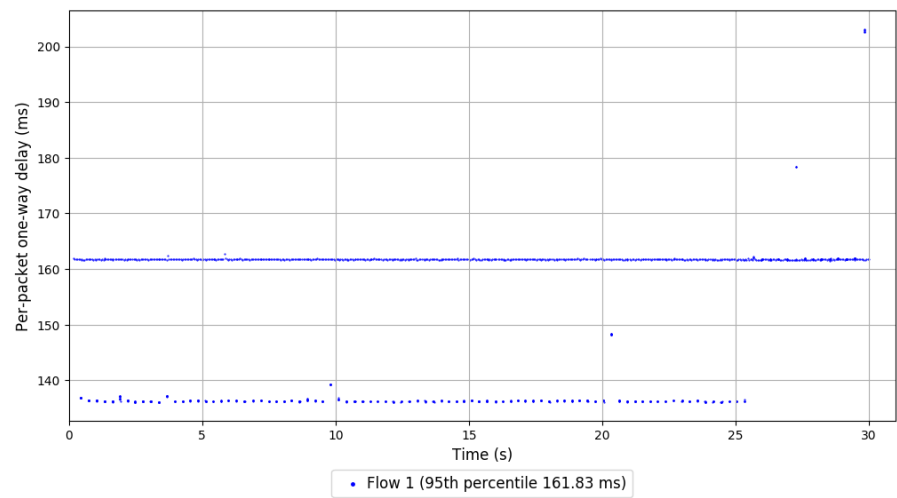
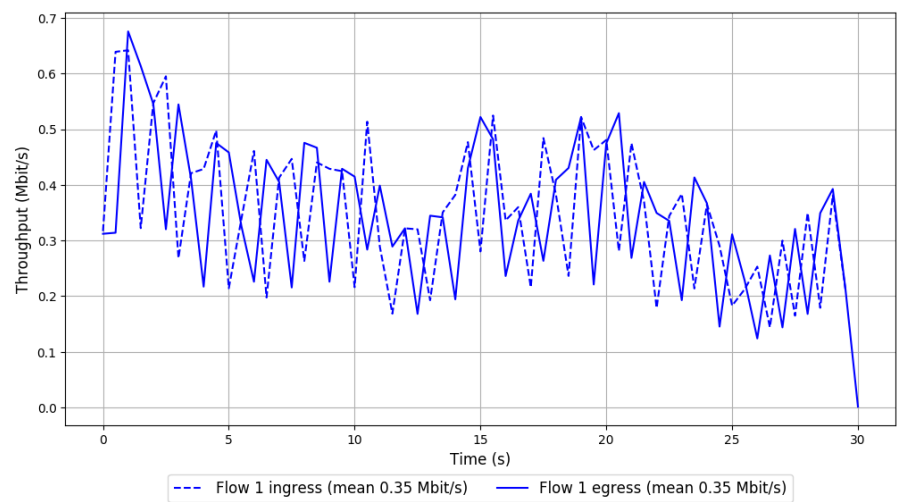
-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 161.827 ms

Loss rate: 0.01%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-13 14:08:31

End at: 2018-02-13 14:09:01

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 161.868 ms

Loss rate: 0.00%

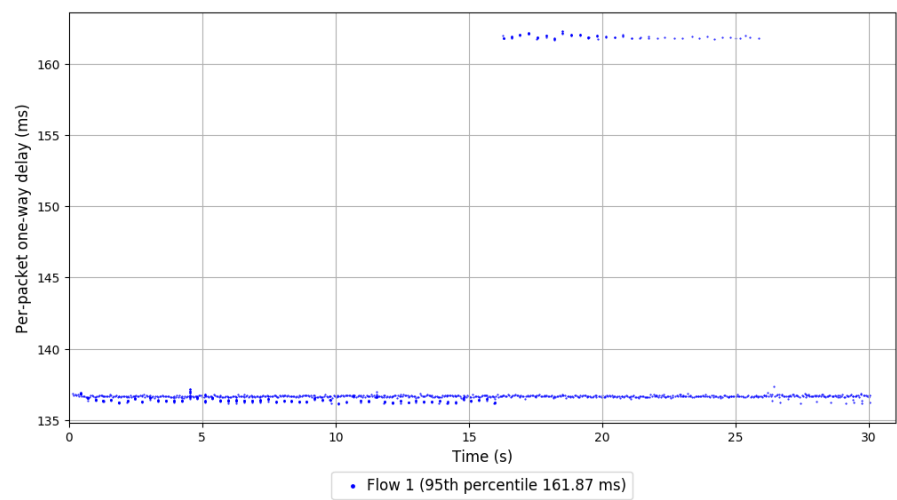
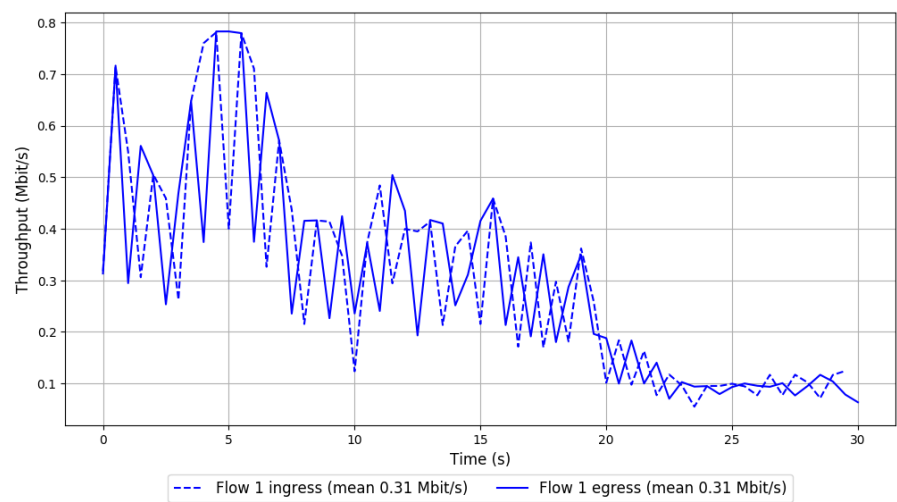
-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 161.868 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-13 14:24:47

End at: 2018-02-13 14:25:17

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 162.877 ms

Loss rate: 0.00%

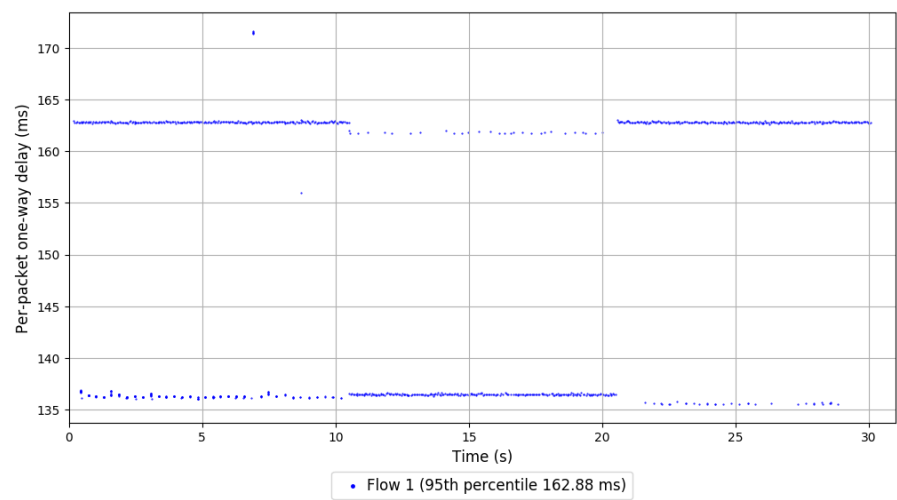
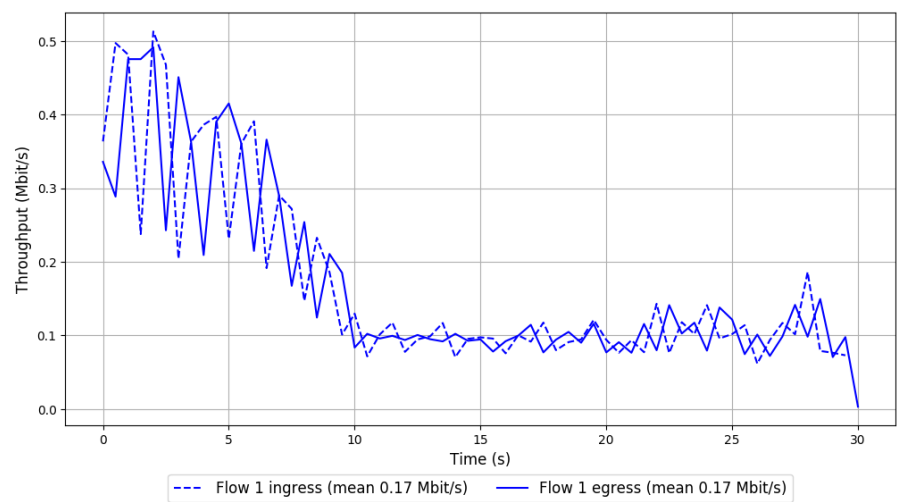
-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 162.877 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-13 14:40:23

End at: 2018-02-13 14:40:53

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 161.716 ms

Loss rate: 0.00%

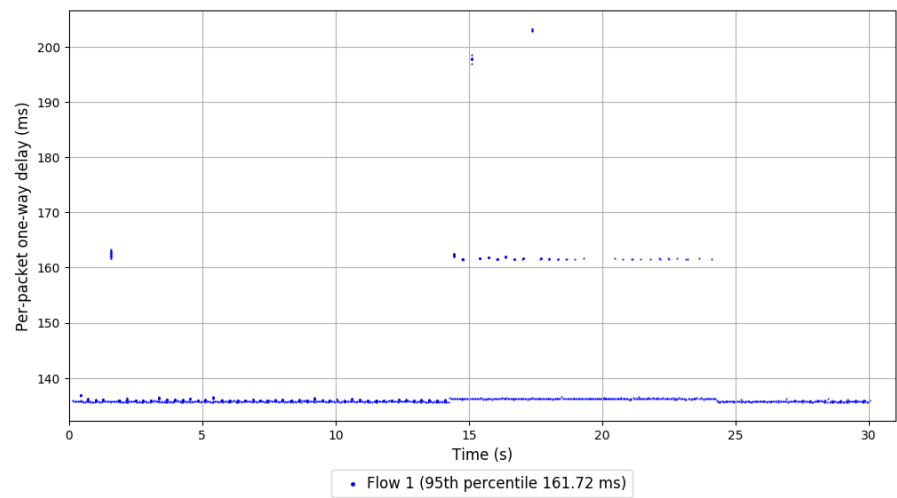
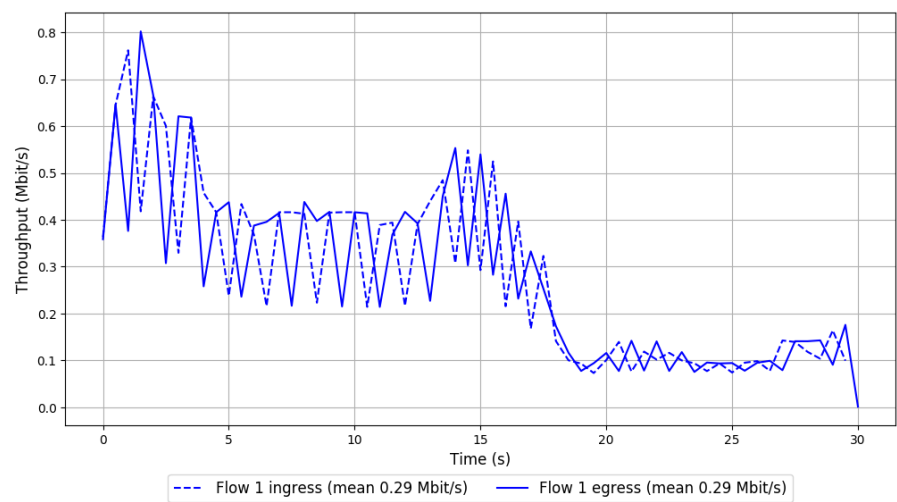
-- Flow 1:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 161.716 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-13 14:56:19

End at: 2018-02-13 14:56:49

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.454 ms

Loss rate: 0.00%

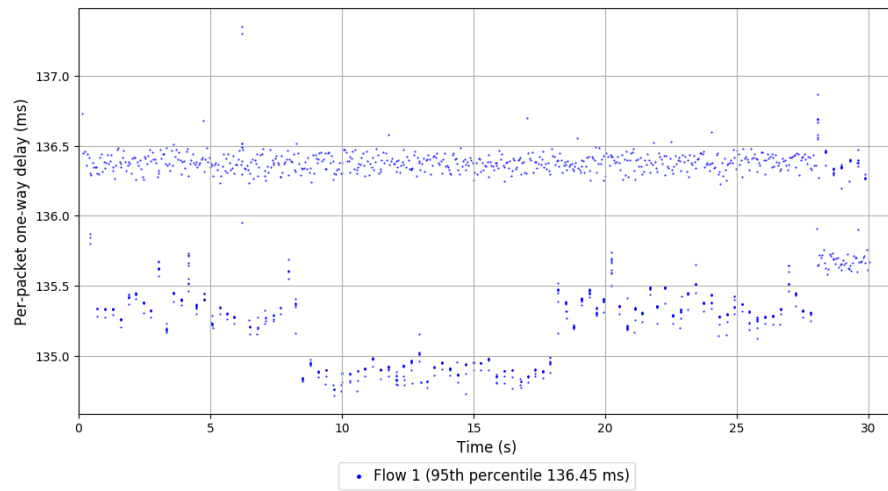
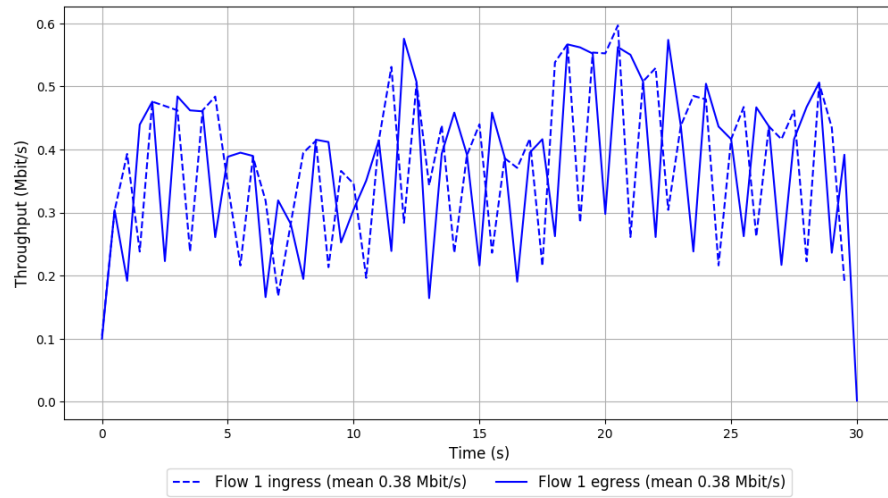
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.454 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-13 15:12:42

End at: 2018-02-13 15:13:12

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 161.547 ms

Loss rate: 0.00%

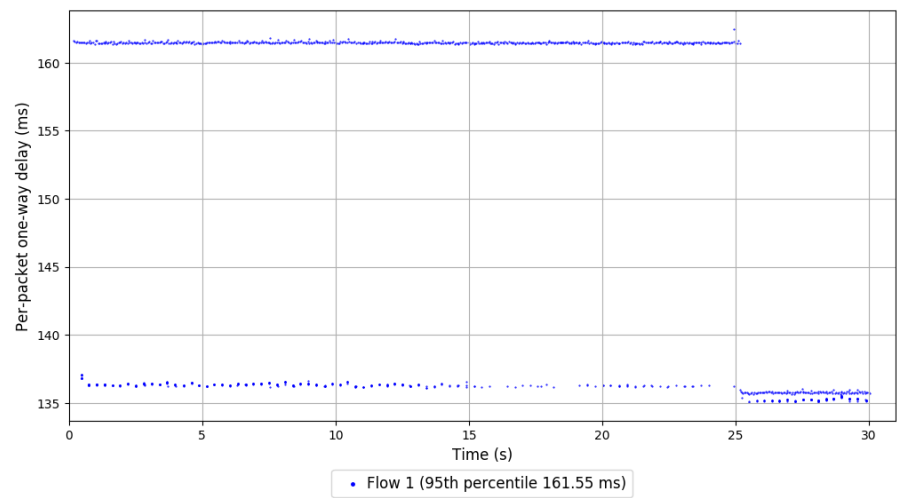
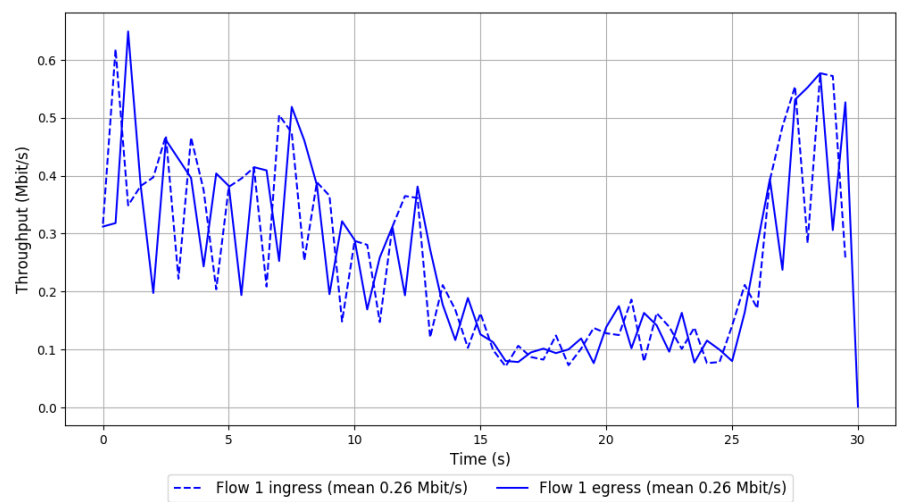
-- Flow 1:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 161.547 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-13 15:28:57

End at: 2018-02-13 15:29:27

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.48 Mbit/s

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

Loss rate: 0.00%

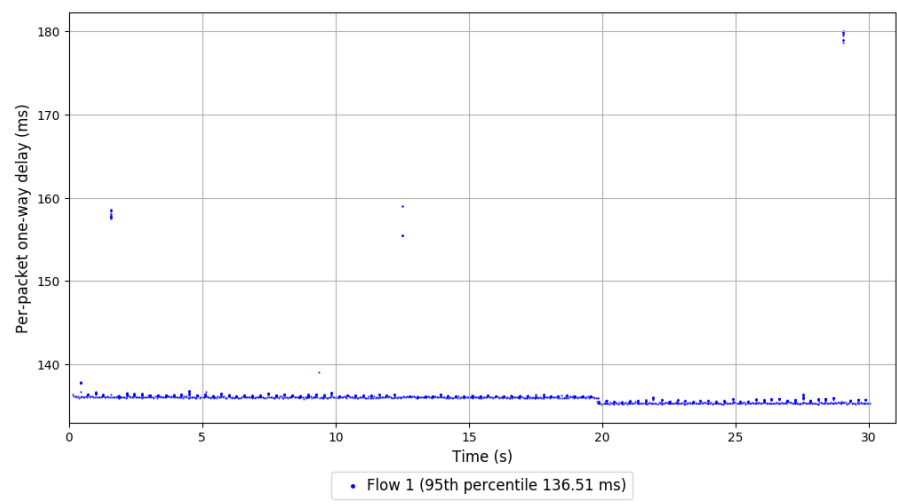
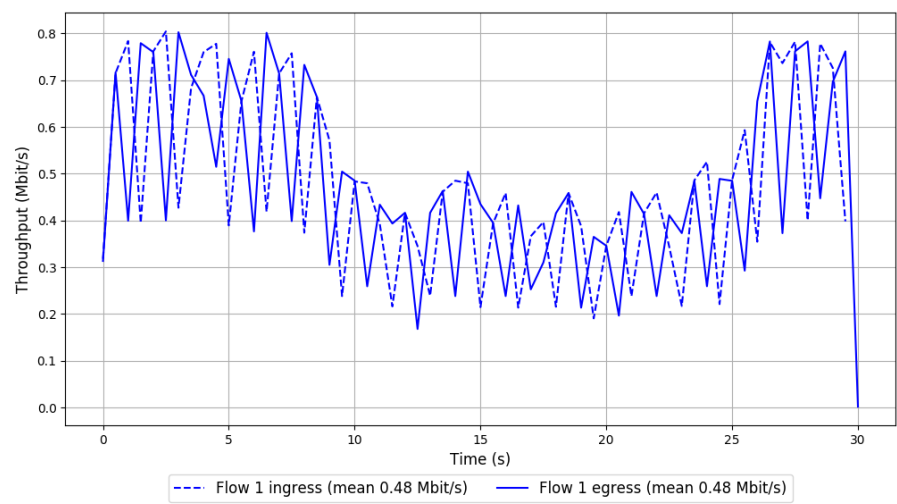
-- Flow 1:

Average throughput: 0.48 Mbit/s

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

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-13 15:44:59

End at: 2018-02-13 15:45:29

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 162.006 ms

Loss rate: 0.00%

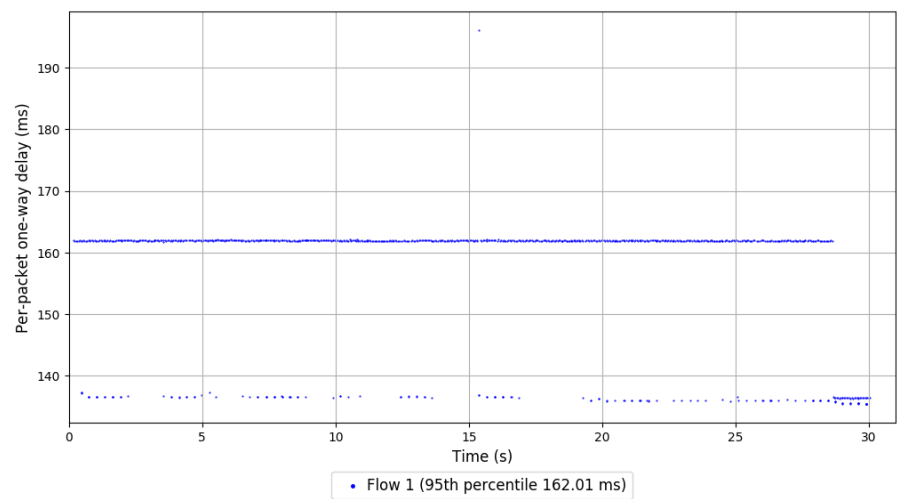
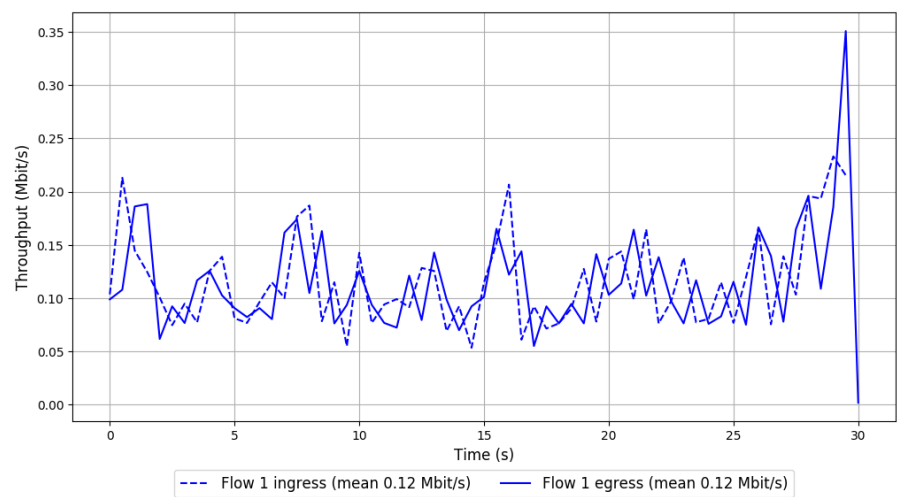
-- Flow 1:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 162.006 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-13 16:01:16

End at: 2018-02-13 16:01:46

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 161.977 ms

Loss rate: 0.01%

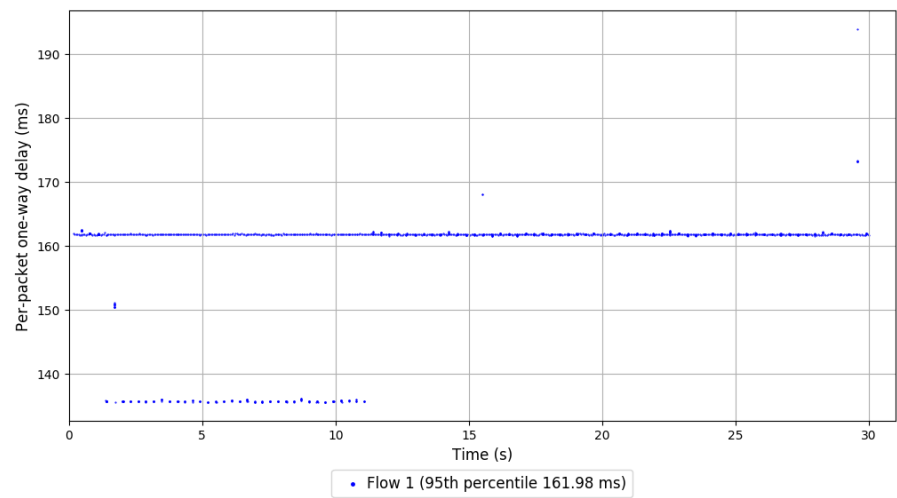
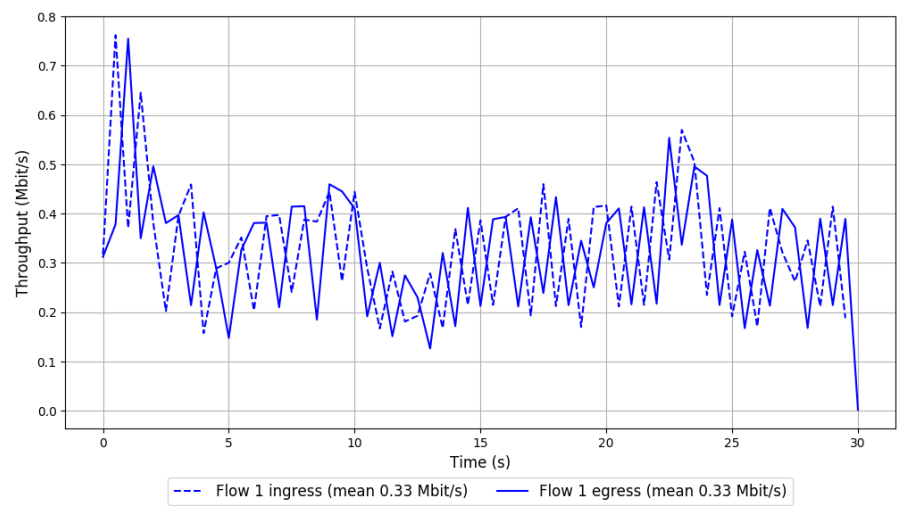
-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 161.977 ms

Loss rate: 0.01%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-13 16:16:49

End at: 2018-02-13 16:17:19

Below is generated by plot.py at 2018-02-13 17:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 162.933 ms

Loss rate: 0.00%

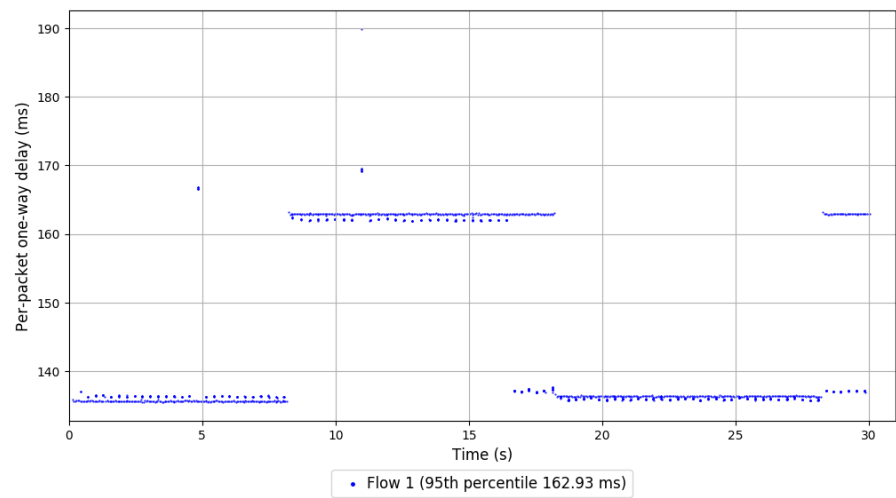
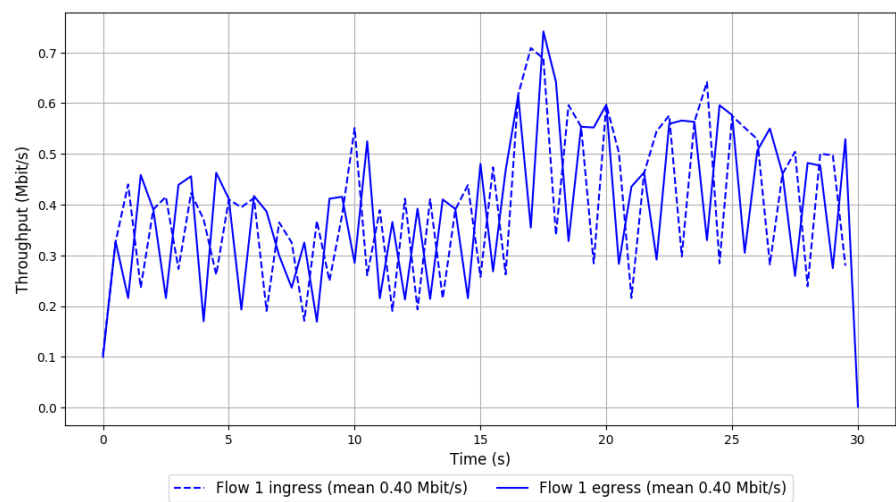
-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 162.933 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

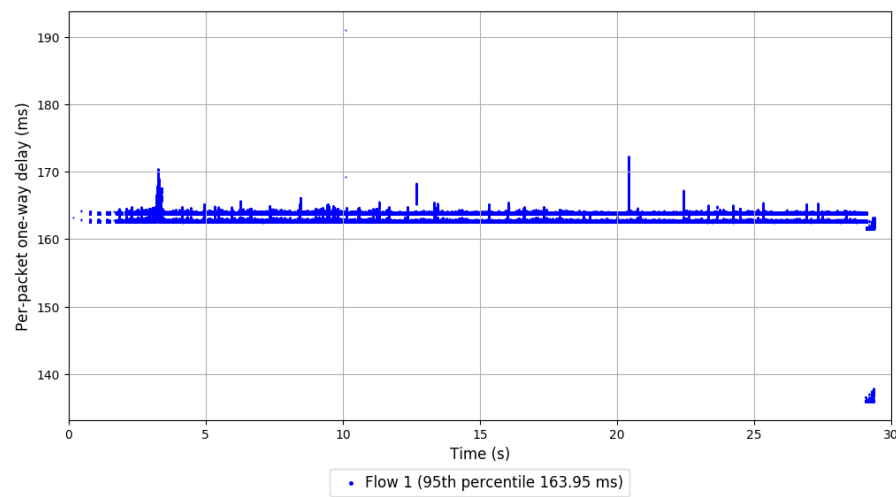
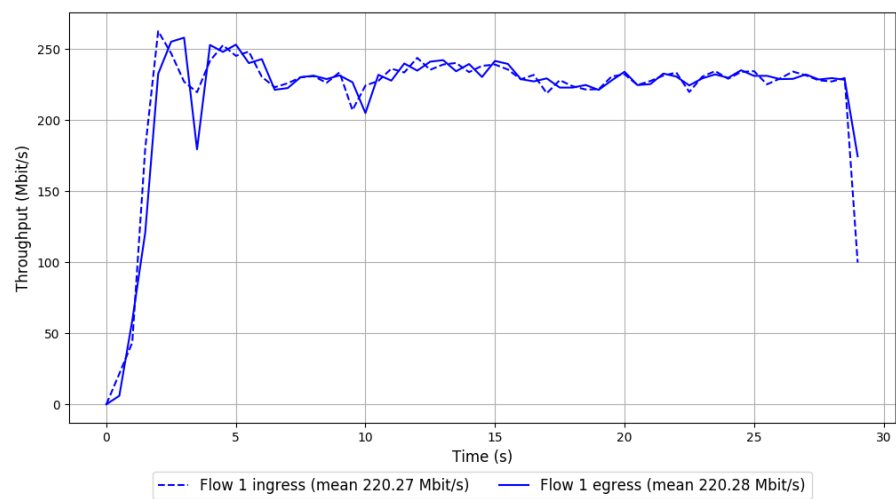


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-13 13:48:58
End at: 2018-02-13 13:49:28

# Below is generated by plot.py at 2018-02-13 17:48:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.28 Mbit/s
95th percentile per-packet one-way delay: 163.950 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 220.28 Mbit/s
95th percentile per-packet one-way delay: 163.950 ms
Loss rate: 0.00%
```


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

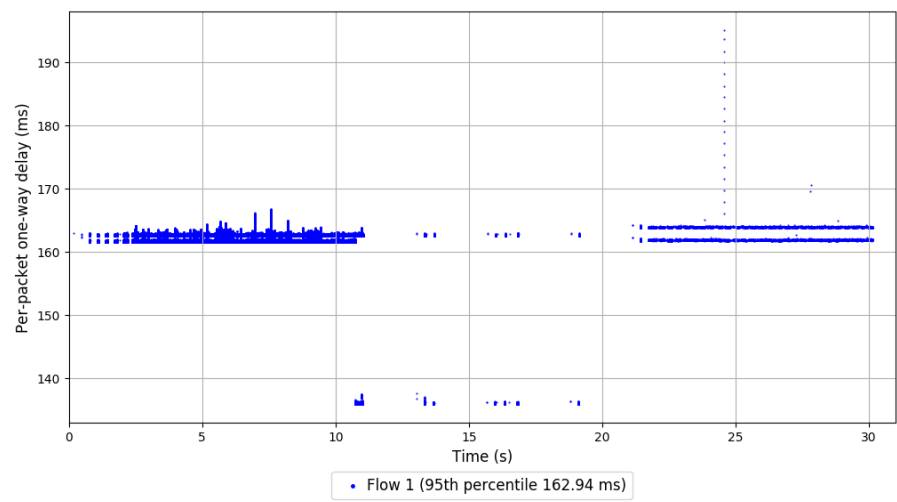
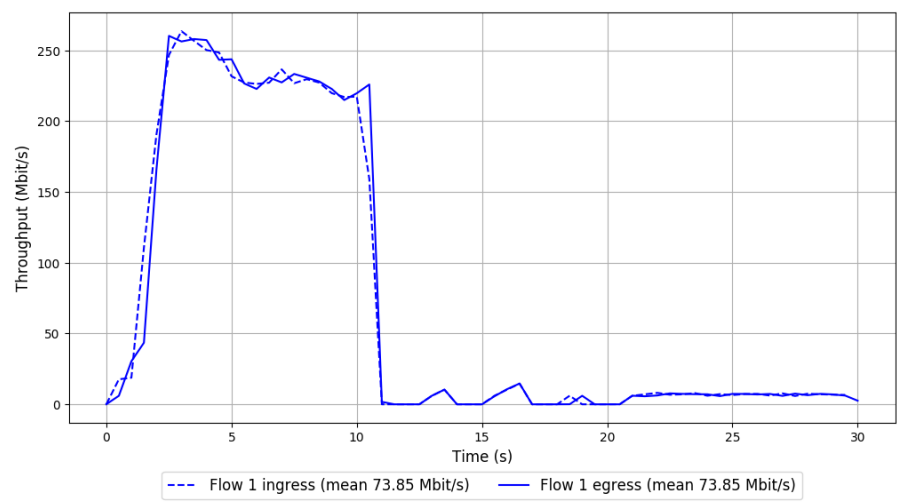


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-13 14:05:06
End at: 2018-02-13 14:05:36

# Below is generated by plot.py at 2018-02-13 17:48:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.85 Mbit/s
95th percentile per-packet one-way delay: 162.940 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 73.85 Mbit/s
95th percentile per-packet one-way delay: 162.940 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-13 14:21:05

End at: 2018-02-13 14:21:35

Below is generated by plot.py at 2018-02-13 17:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.01 Mbit/s

95th percentile per-packet one-way delay: 136.636 ms

Loss rate: 0.20%

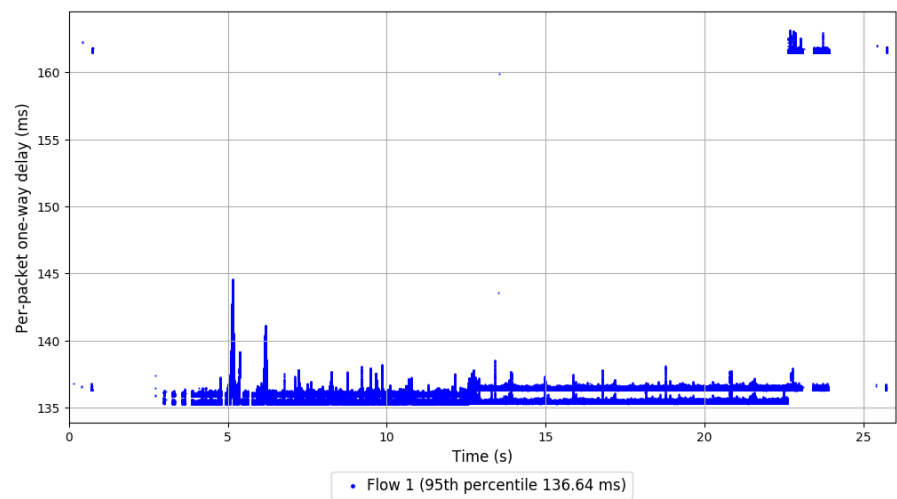
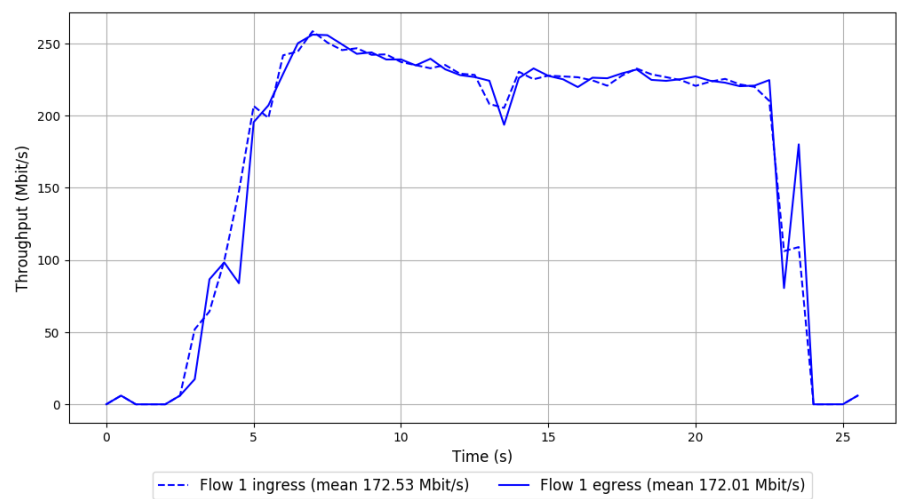
-- Flow 1:

Average throughput: 172.01 Mbit/s

95th percentile per-packet one-way delay: 136.636 ms

Loss rate: 0.20%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-13 14:36:43

End at: 2018-02-13 14:37:13

Below is generated by plot.py at 2018-02-13 17:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.33 Mbit/s

95th percentile per-packet one-way delay: 161.611 ms

Loss rate: 0.00%

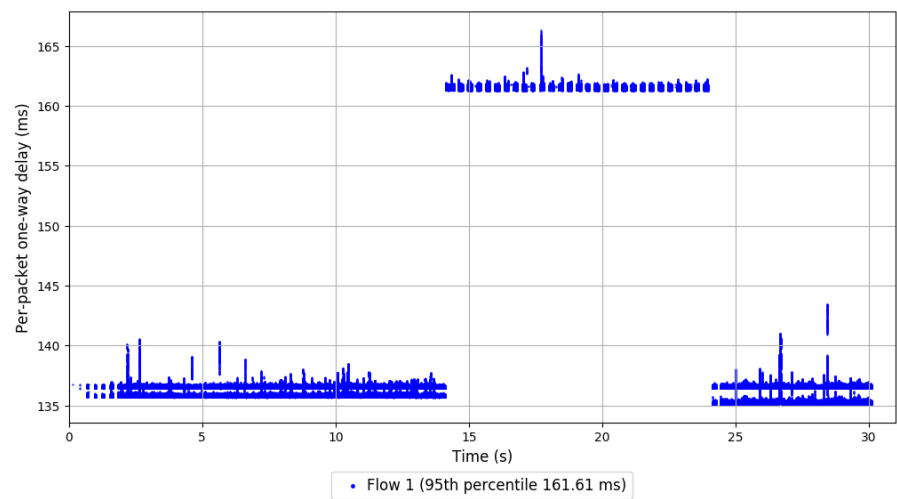
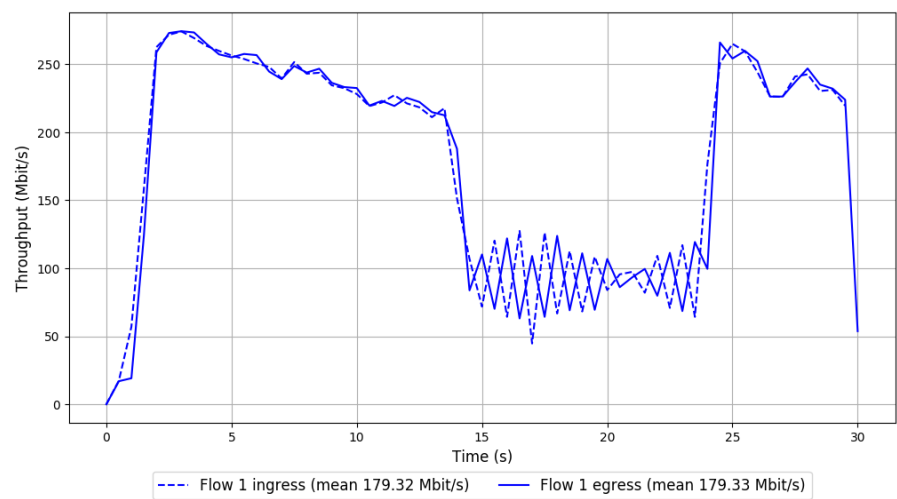
-- Flow 1:

Average throughput: 179.33 Mbit/s

95th percentile per-packet one-way delay: 161.611 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-13 14:52:54

End at: 2018-02-13 14:53:24

Below is generated by plot.py at 2018-02-13 17:48:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.68 Mbit/s

95th percentile per-packet one-way delay: 136.329 ms

Loss rate: 0.02%

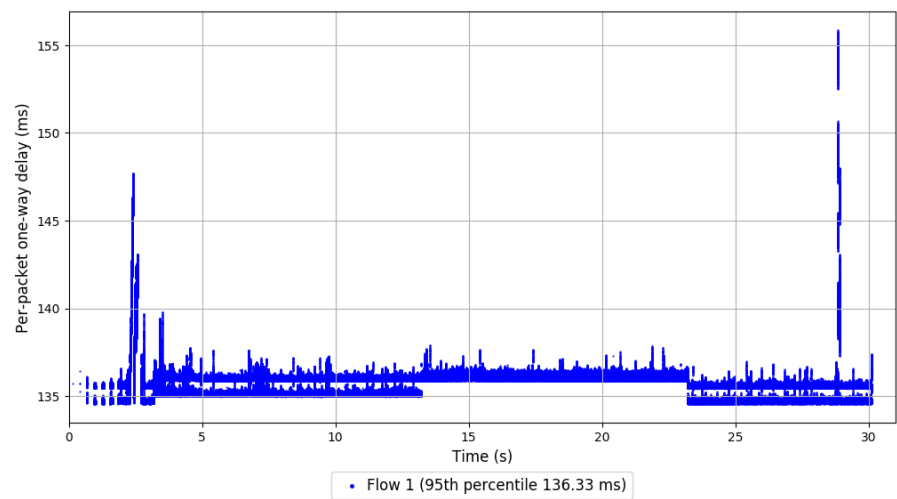
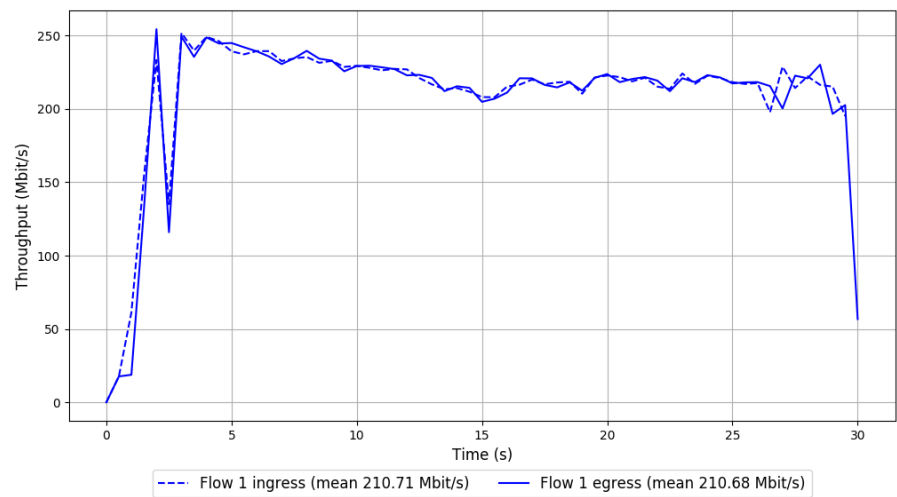
-- Flow 1:

Average throughput: 210.68 Mbit/s

95th percentile per-packet one-way delay: 136.329 ms

Loss rate: 0.02%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-13 15:09:01

End at: 2018-02-13 15:09:31

Below is generated by plot.py at 2018-02-13 17:48:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.65 Mbit/s

95th percentile per-packet one-way delay: 136.260 ms

Loss rate: 0.21%

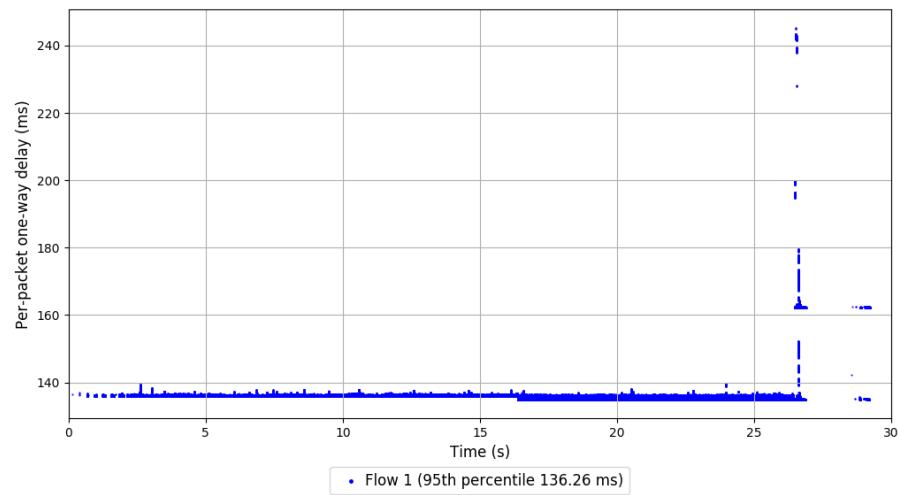
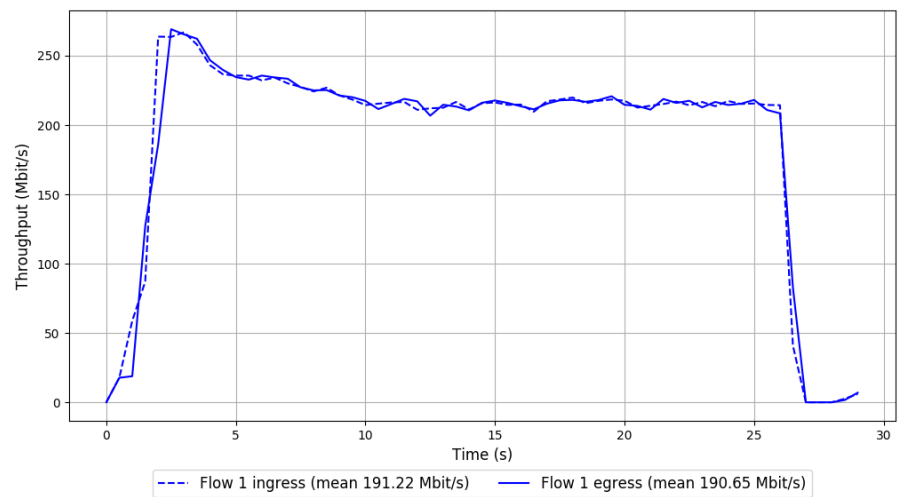
-- Flow 1:

Average throughput: 190.65 Mbit/s

95th percentile per-packet one-way delay: 136.260 ms

Loss rate: 0.21%

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

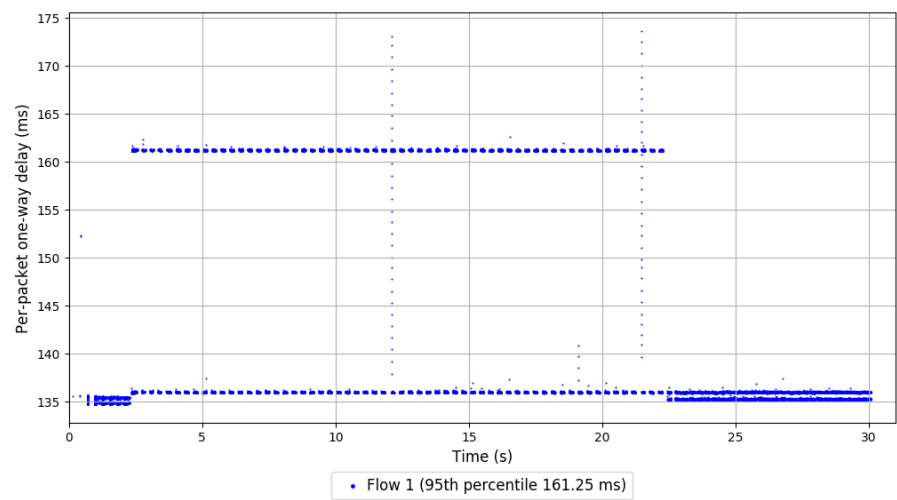
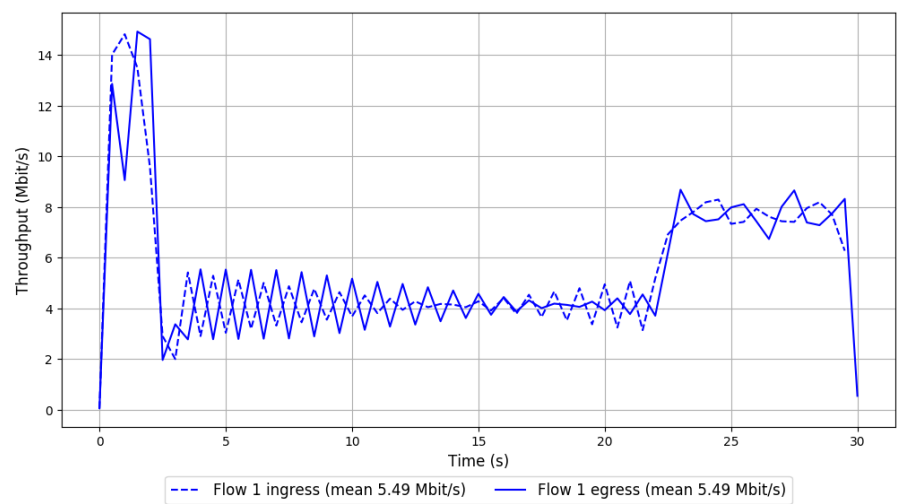


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-02-13 15:25:35
End at: 2018-02-13 15:26:05

# Below is generated by plot.py at 2018-02-13 17:48:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.49 Mbit/s
95th percentile per-packet one-way delay: 161.250 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.49 Mbit/s
95th percentile per-packet one-way delay: 161.250 ms
Loss rate: 0.00%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-13 15:41:43

End at: 2018-02-13 15:42:13

Below is generated by plot.py at 2018-02-13 17:48:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.35 Mbit/s

95th percentile per-packet one-way delay: 136.296 ms

Loss rate: 0.01%

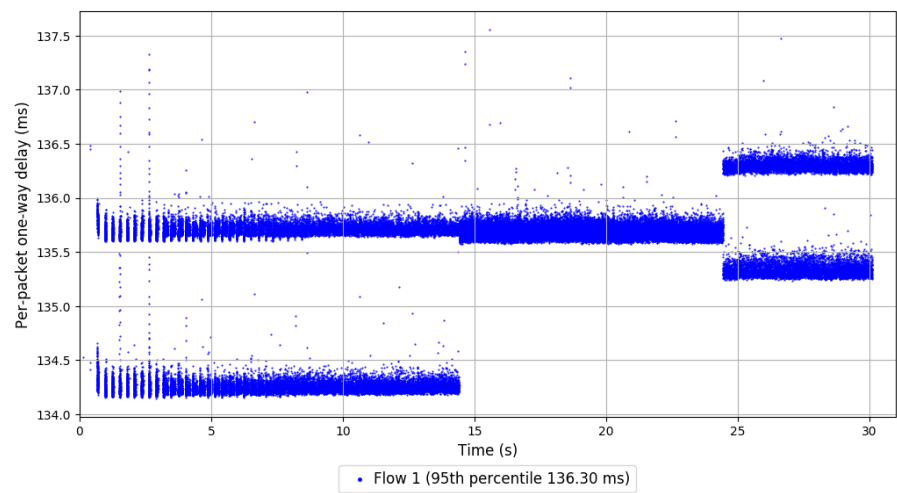
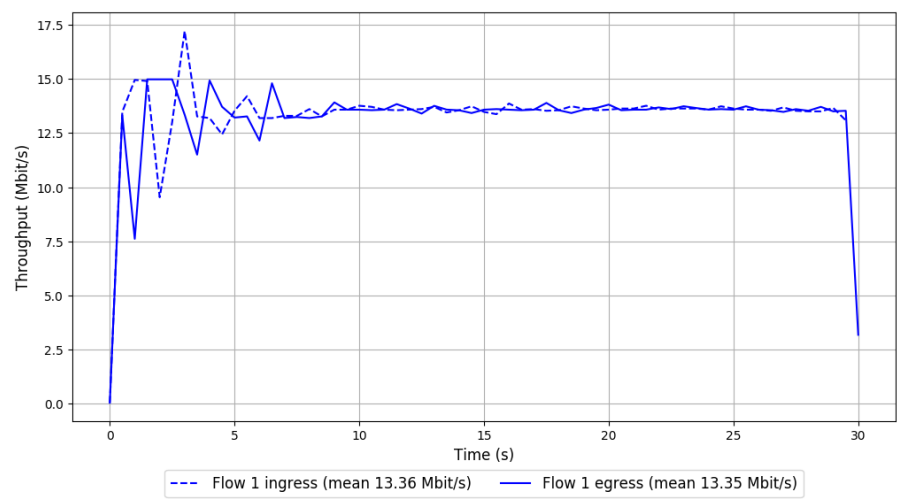
-- Flow 1:

Average throughput: 13.35 Mbit/s

95th percentile per-packet one-way delay: 136.296 ms

Loss rate: 0.01%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-13 15:57:33

End at: 2018-02-13 15:58:03

Below is generated by plot.py at 2018-02-13 17:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.62 Mbit/s

95th percentile per-packet one-way delay: 161.594 ms

Loss rate: 0.00%

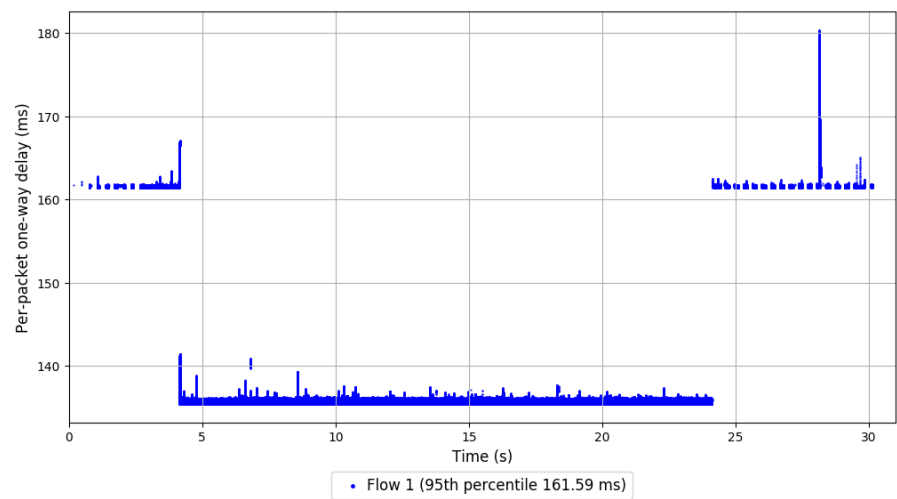
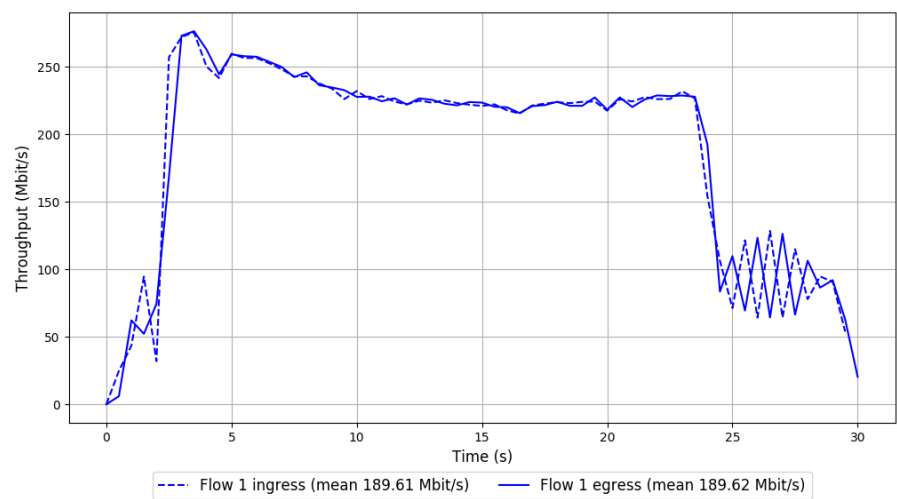
-- Flow 1:

Average throughput: 189.62 Mbit/s

95th percentile per-packet one-way delay: 161.594 ms

Loss rate: 0.00%

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

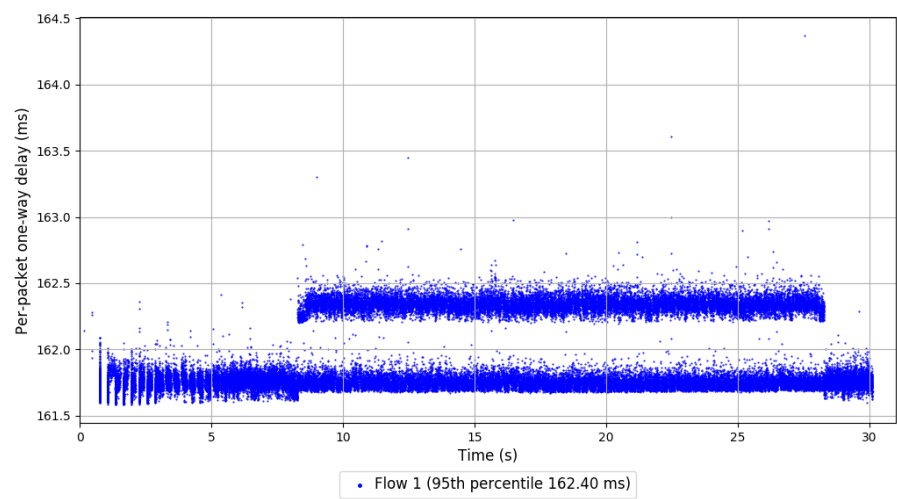
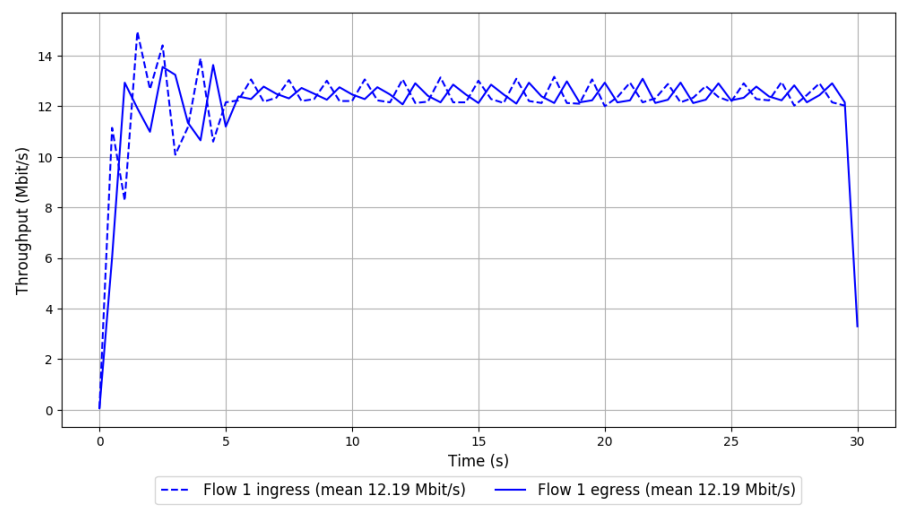


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-13 16:13:29
End at: 2018-02-13 16:13:59

# Below is generated by plot.py at 2018-02-13 17:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.19 Mbit/s
95th percentile per-packet one-way delay: 162.396 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 12.19 Mbit/s
95th percentile per-packet one-way delay: 162.396 ms
Loss rate: 0.02%
```

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



Run 1: Statistics of TCP Vegas

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

End at: 2018-02-13 13:50:33

Below is generated by plot.py at 2018-02-13 17:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.20 Mbit/s

95th percentile per-packet one-way delay: 169.469 ms

Loss rate: 1.25%

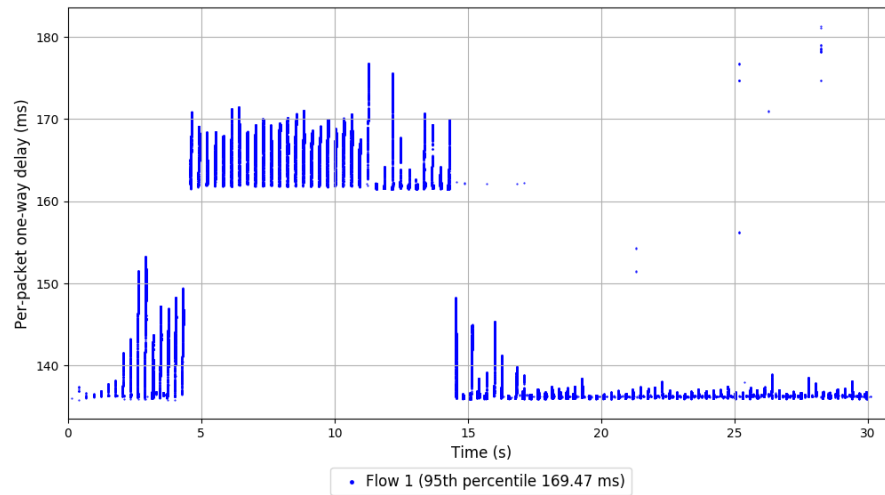
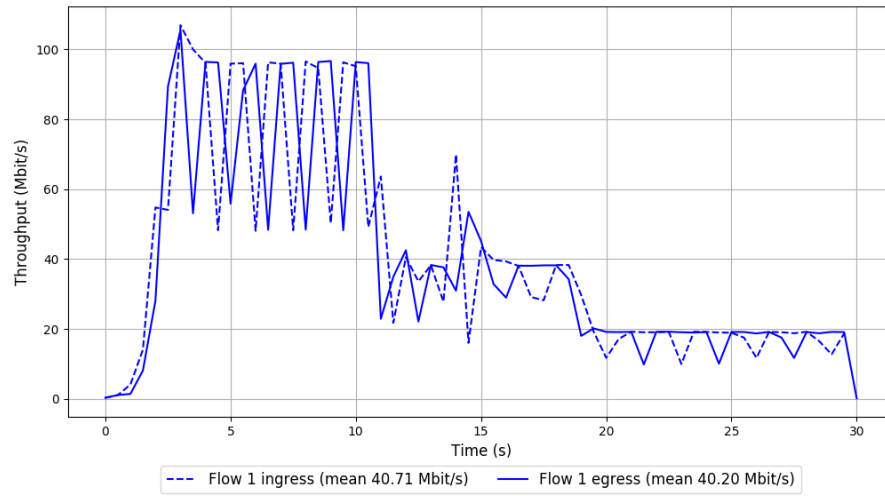
-- Flow 1:

Average throughput: 40.20 Mbit/s

95th percentile per-packet one-way delay: 169.469 ms

Loss rate: 1.25%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-13 14:05:56

End at: 2018-02-13 14:06:26

Below is generated by plot.py at 2018-02-13 17:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 162.255 ms

Loss rate: 0.04%

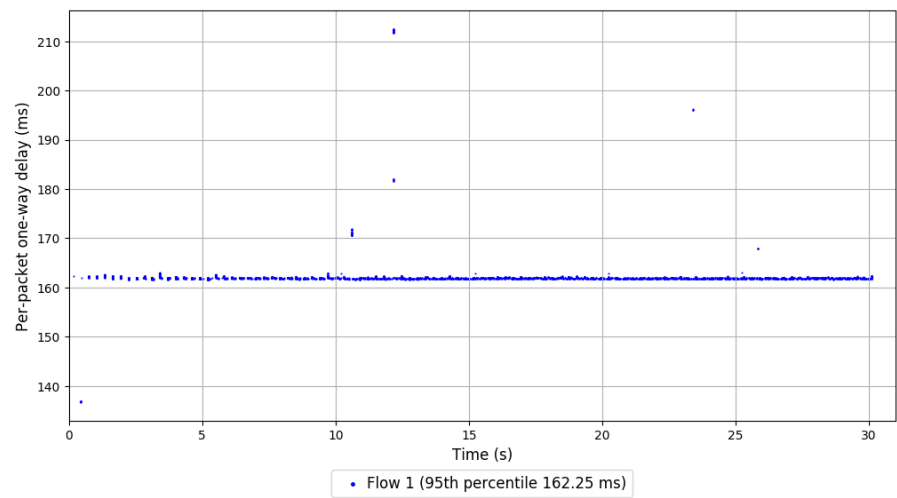
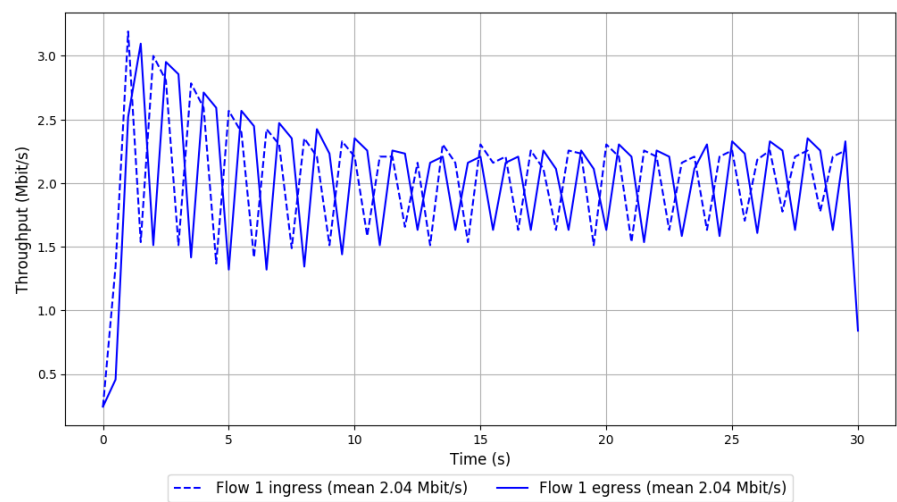
-- Flow 1:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 162.255 ms

Loss rate: 0.04%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-13 14:22:03

End at: 2018-02-13 14:22:33

Below is generated by plot.py at 2018-02-13 17:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.28 Mbit/s

95th percentile per-packet one-way delay: 145.390 ms

Loss rate: 0.00%

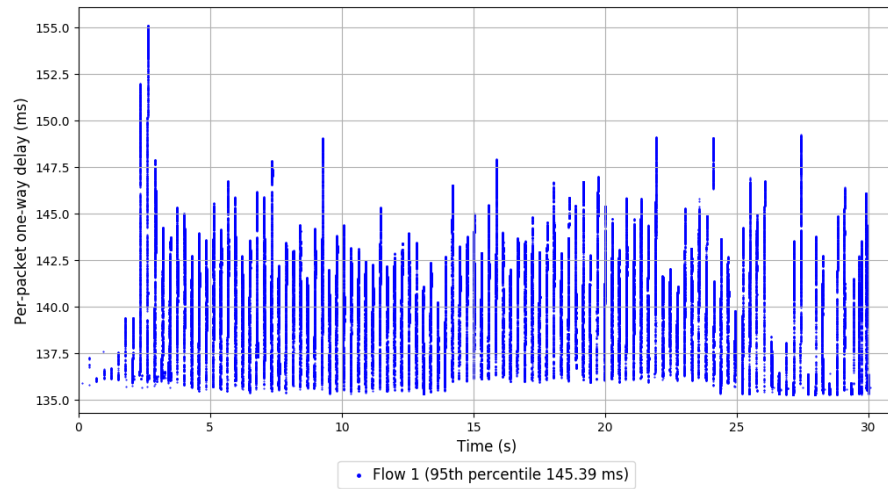
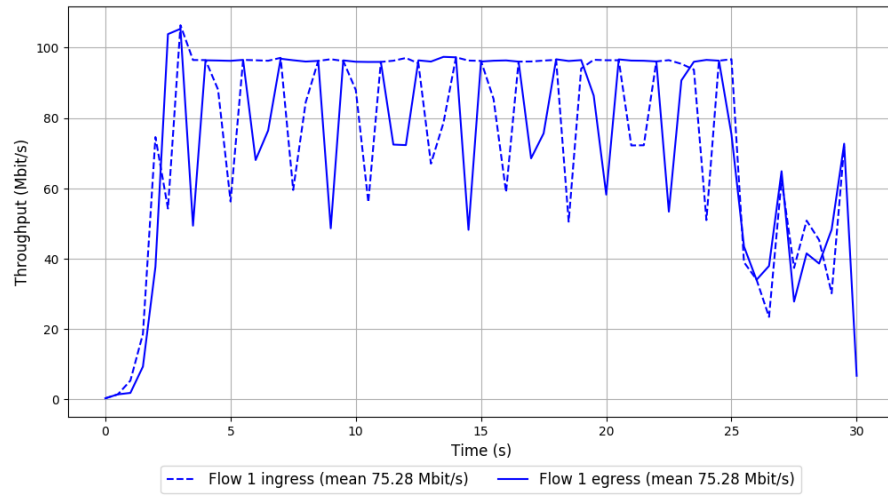
-- Flow 1:

Average throughput: 75.28 Mbit/s

95th percentile per-packet one-way delay: 145.390 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-13 14:37:44

End at: 2018-02-13 14:38:14

Below is generated by plot.py at 2018-02-13 17:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.01 Mbit/s

95th percentile per-packet one-way delay: 138.293 ms

Loss rate: 0.00%

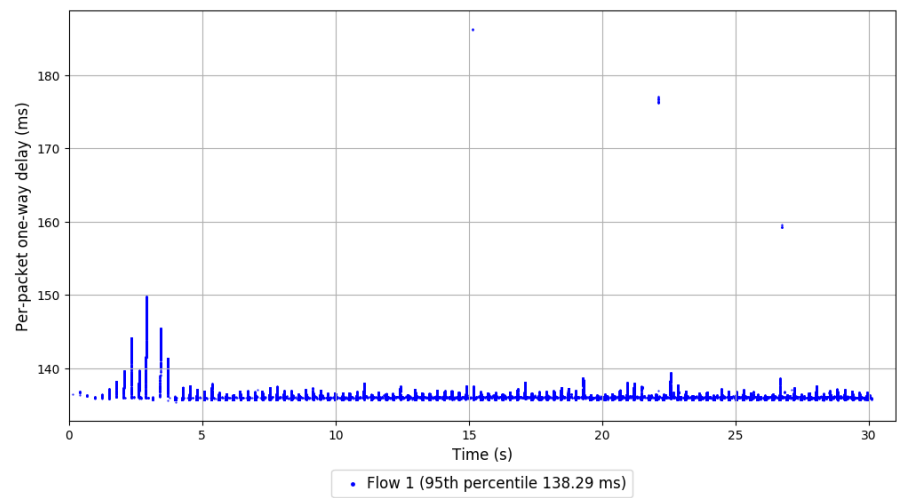
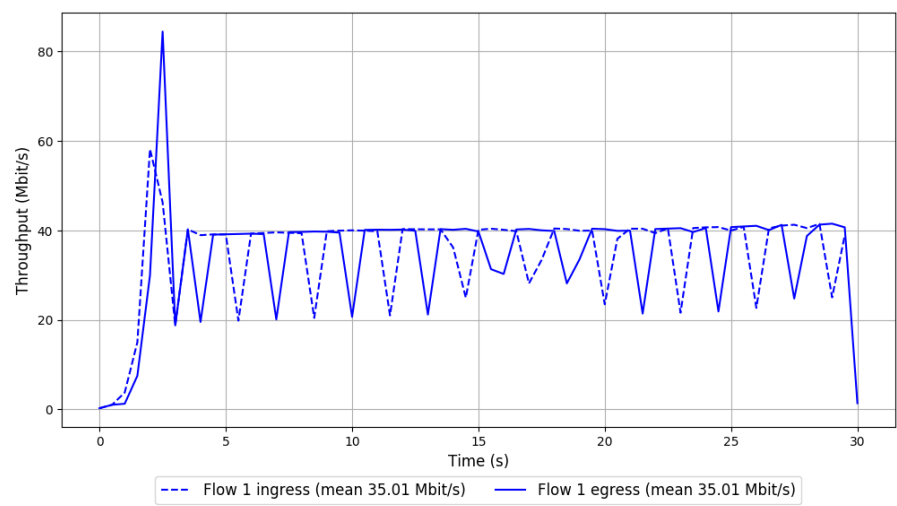
-- Flow 1:

Average throughput: 35.01 Mbit/s

95th percentile per-packet one-way delay: 138.293 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-13 14:53:57

End at: 2018-02-13 14:54:27

Below is generated by plot.py at 2018-02-13 17:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.31 Mbit/s

95th percentile per-packet one-way delay: 137.523 ms

Loss rate: 1.66%

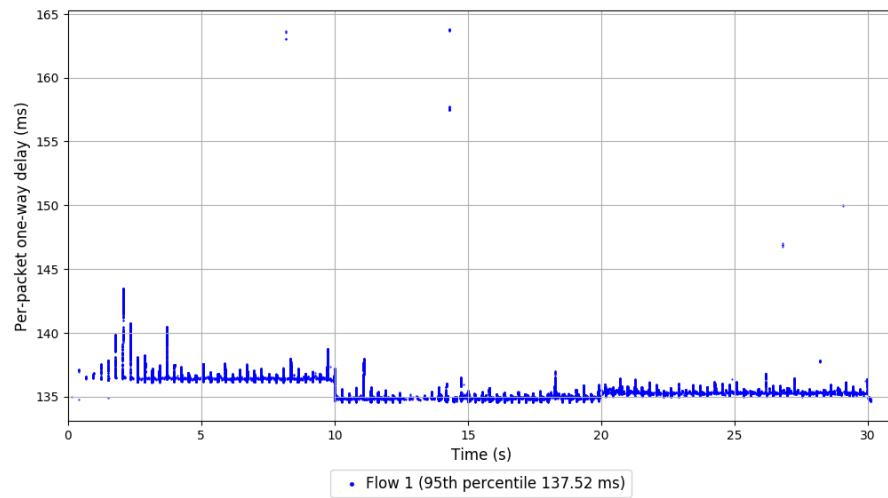
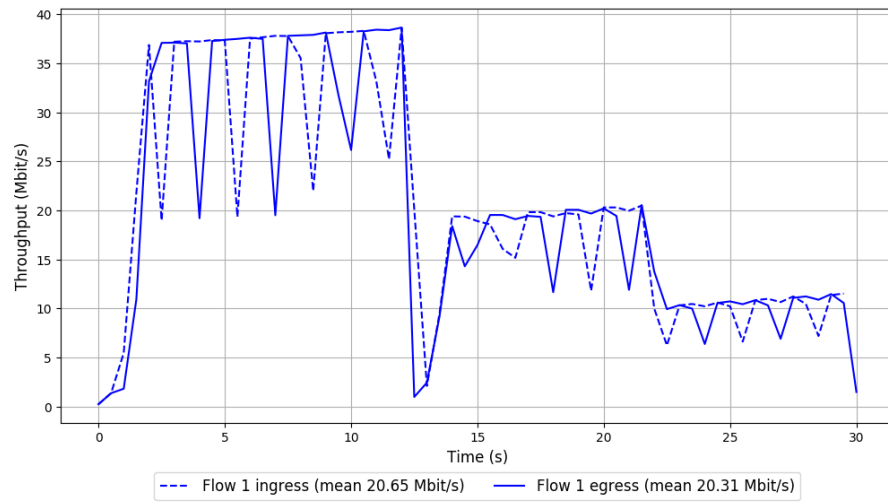
-- Flow 1:

Average throughput: 20.31 Mbit/s

95th percentile per-packet one-way delay: 137.523 ms

Loss rate: 1.66%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-13 15:10:01

End at: 2018-02-13 15:10:32

Below is generated by plot.py at 2018-02-13 17:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.14 Mbit/s

95th percentile per-packet one-way delay: 137.860 ms

Loss rate: 0.00%

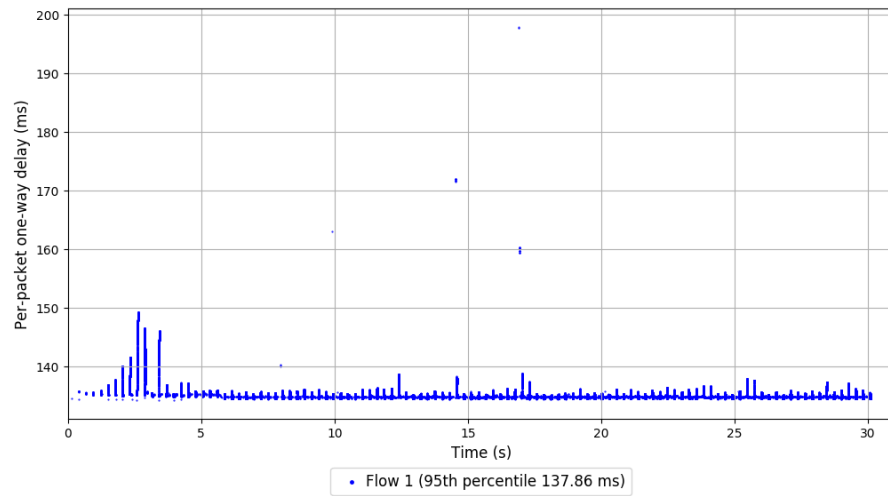
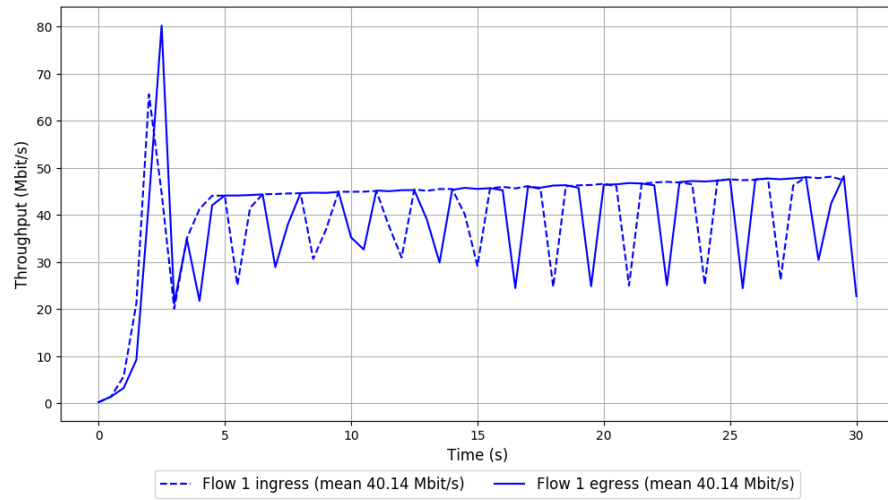
-- Flow 1:

Average throughput: 40.14 Mbit/s

95th percentile per-packet one-way delay: 137.860 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-13 15:26:19

End at: 2018-02-13 15:26:49

Below is generated by plot.py at 2018-02-13 17:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.68 Mbit/s

95th percentile per-packet one-way delay: 143.822 ms

Loss rate: 0.01%

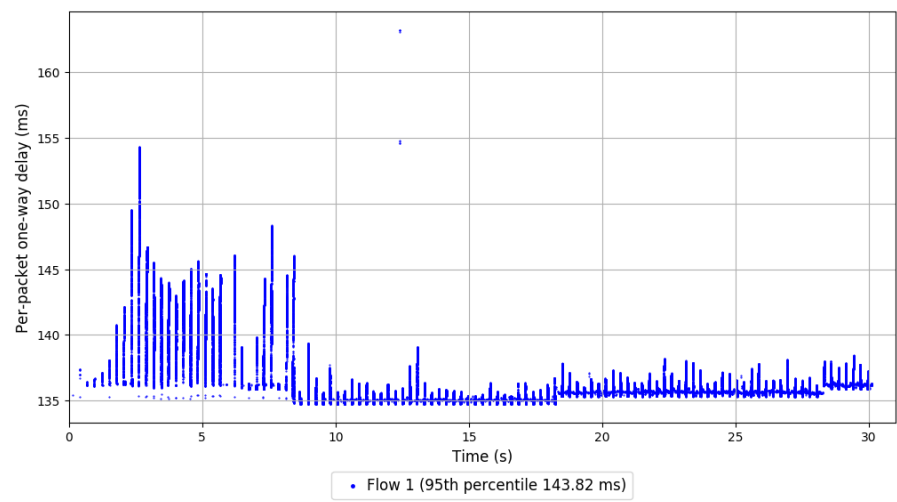
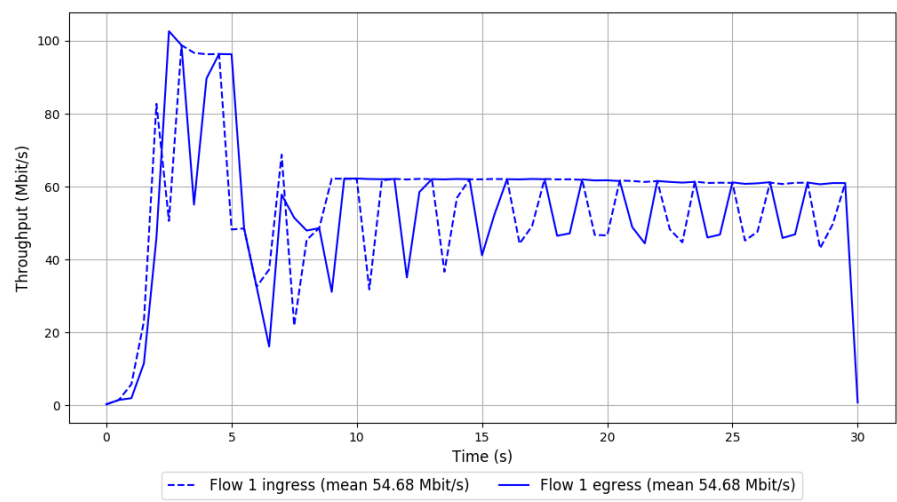
-- Flow 1:

Average throughput: 54.68 Mbit/s

95th percentile per-packet one-way delay: 143.822 ms

Loss rate: 0.01%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-13 15:42:28

End at: 2018-02-13 15:42:58

Below is generated by plot.py at 2018-02-13 17:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.51 Mbit/s

95th percentile per-packet one-way delay: 136.037 ms

Loss rate: 0.87%

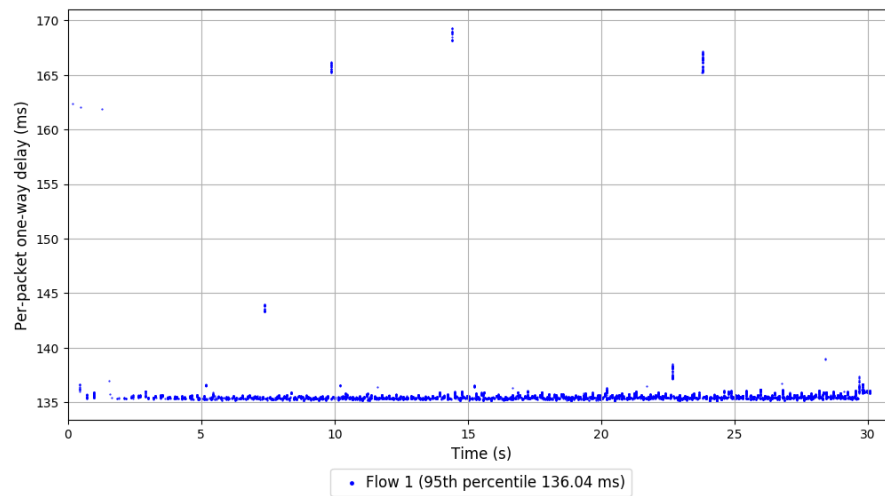
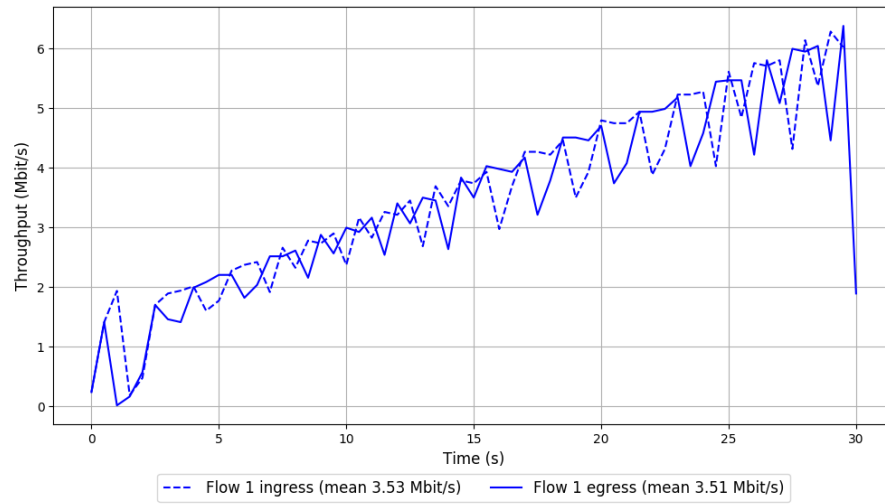
-- Flow 1:

Average throughput: 3.51 Mbit/s

95th percentile per-packet one-way delay: 136.037 ms

Loss rate: 0.87%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-13 15:58:35

End at: 2018-02-13 15:59:05

Below is generated by plot.py at 2018-02-13 17:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.23 Mbit/s

95th percentile per-packet one-way delay: 167.952 ms

Loss rate: 0.07%

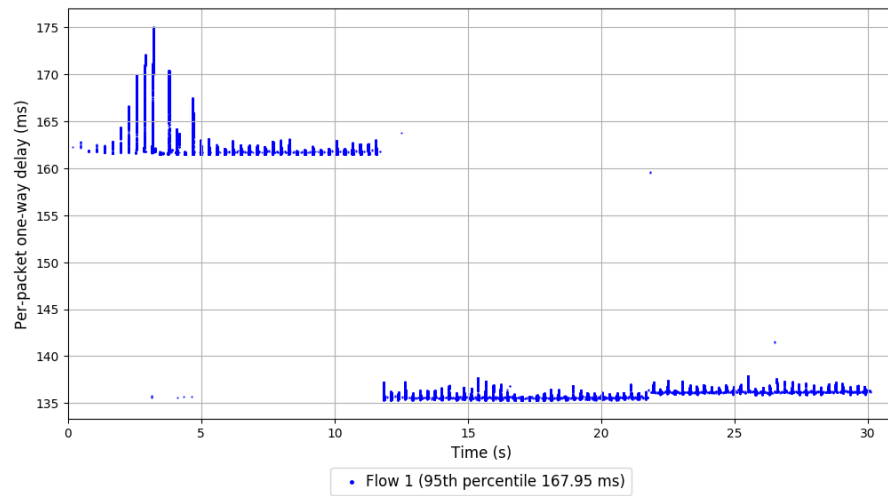
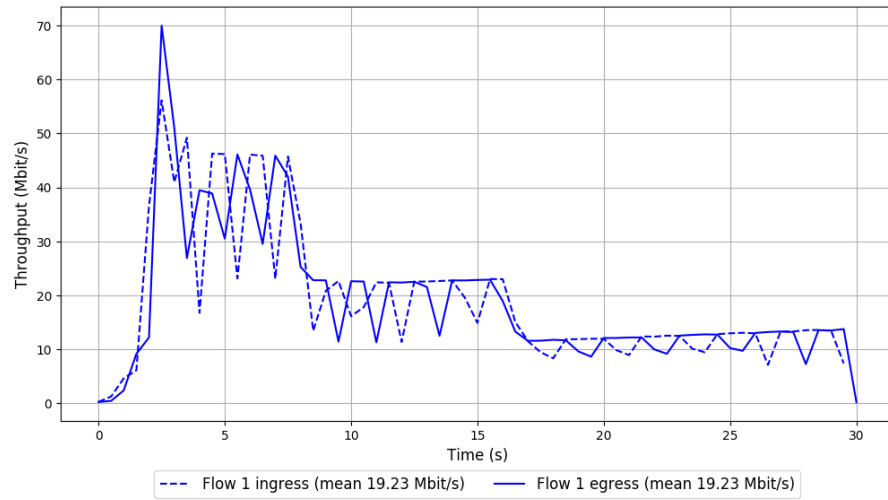
-- Flow 1:

Average throughput: 19.23 Mbit/s

95th percentile per-packet one-way delay: 167.952 ms

Loss rate: 0.07%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-13 16:14:13

End at: 2018-02-13 16:14:43

Below is generated by plot.py at 2018-02-13 17:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.90 Mbit/s

95th percentile per-packet one-way delay: 162.207 ms

Loss rate: 0.00%

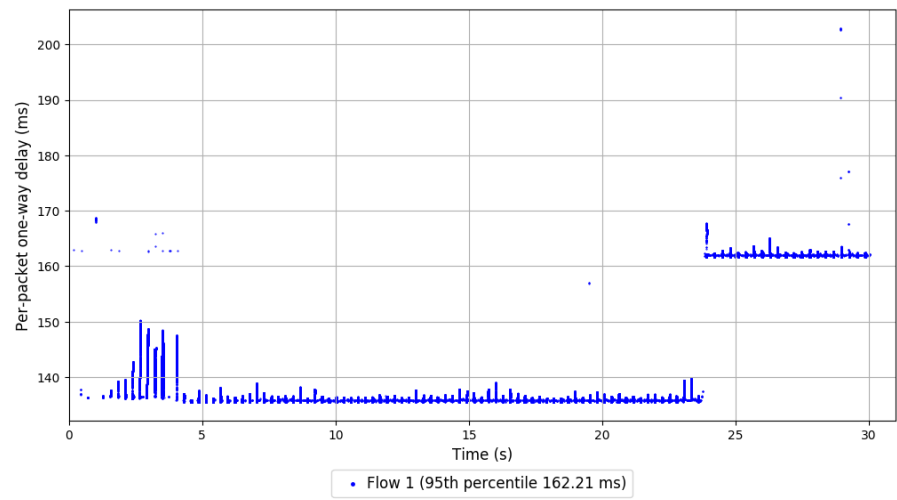
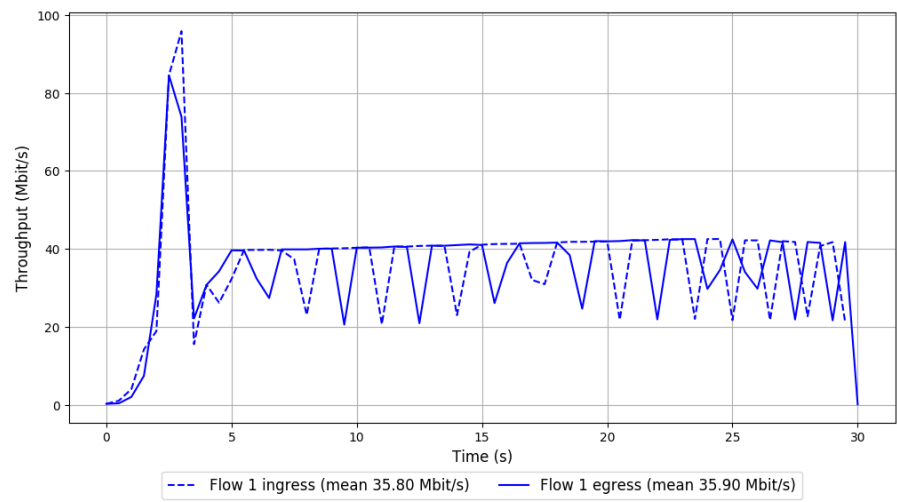
-- Flow 1:

Average throughput: 35.90 Mbit/s

95th percentile per-packet one-way delay: 162.207 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

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

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

Below is generated by plot.py at 2018-02-13 17:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.19 Mbit/s

95th percentile per-packet one-way delay: 172.957 ms

Loss rate: 0.34%

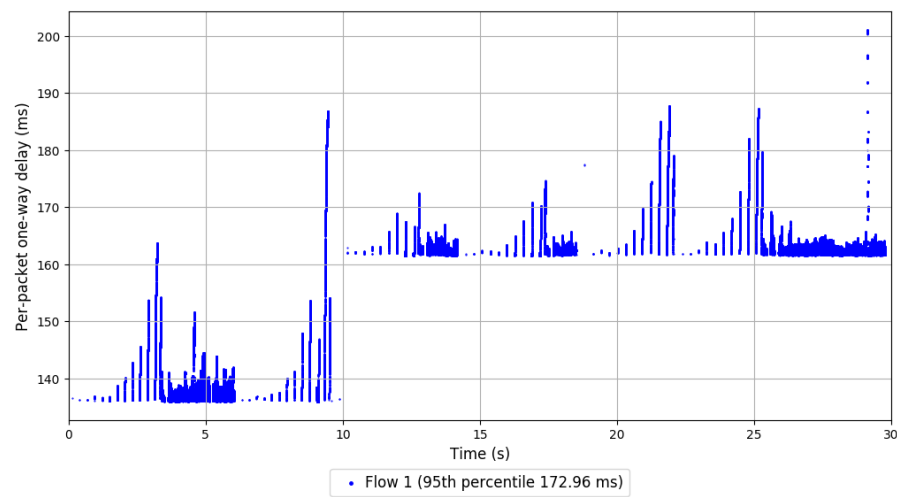
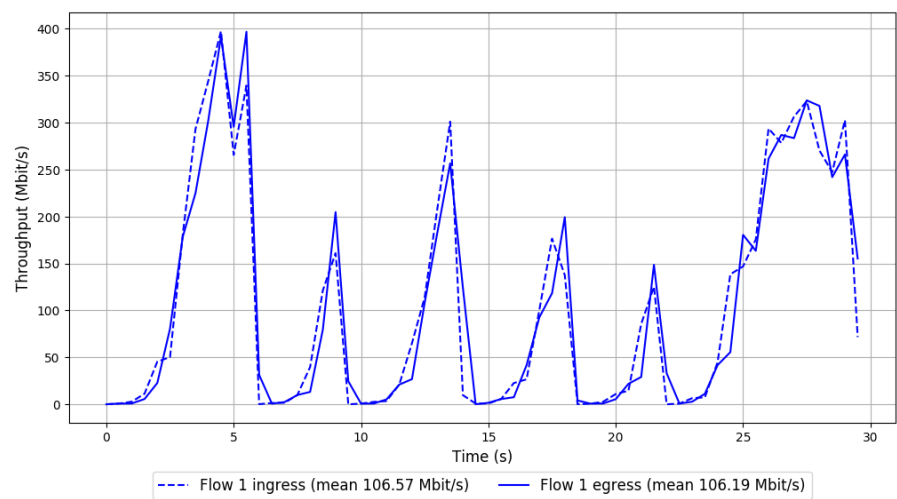
-- Flow 1:

Average throughput: 106.19 Mbit/s

95th percentile per-packet one-way delay: 172.957 ms

Loss rate: 0.34%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-13 14:09:56

End at: 2018-02-13 14:10:26

Below is generated by plot.py at 2018-02-13 17:48:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.43 Mbit/s

95th percentile per-packet one-way delay: 218.780 ms

Loss rate: 0.18%

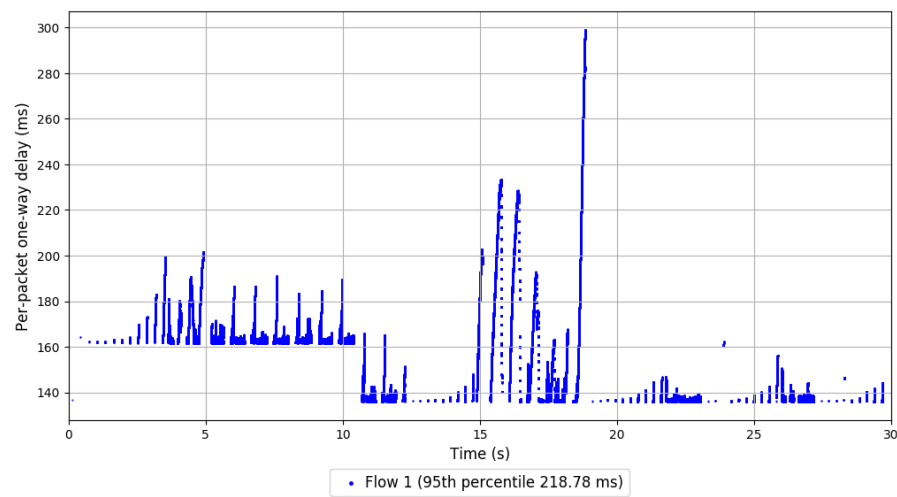
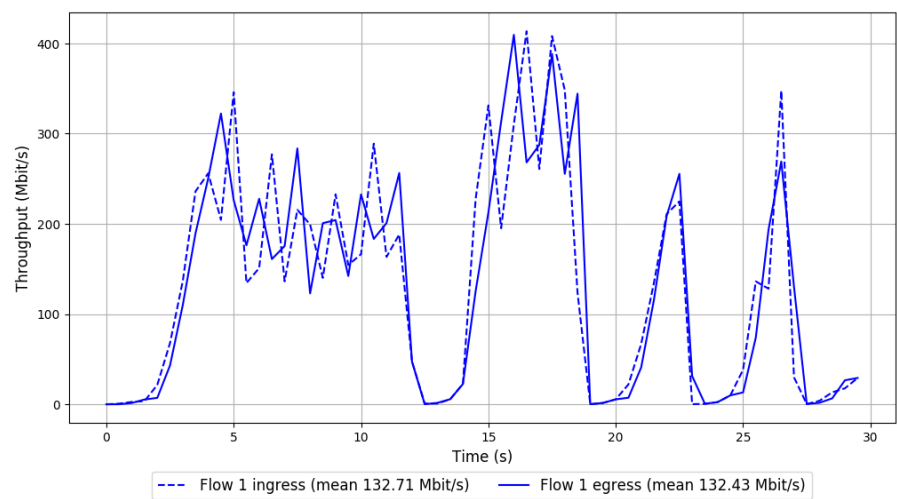
-- Flow 1:

Average throughput: 132.43 Mbit/s

95th percentile per-packet one-way delay: 218.780 ms

Loss rate: 0.18%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-13 14:26:12

End at: 2018-02-13 14:26:42

Below is generated by plot.py at 2018-02-13 17:48:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.95 Mbit/s

95th percentile per-packet one-way delay: 177.145 ms

Loss rate: 1.29%

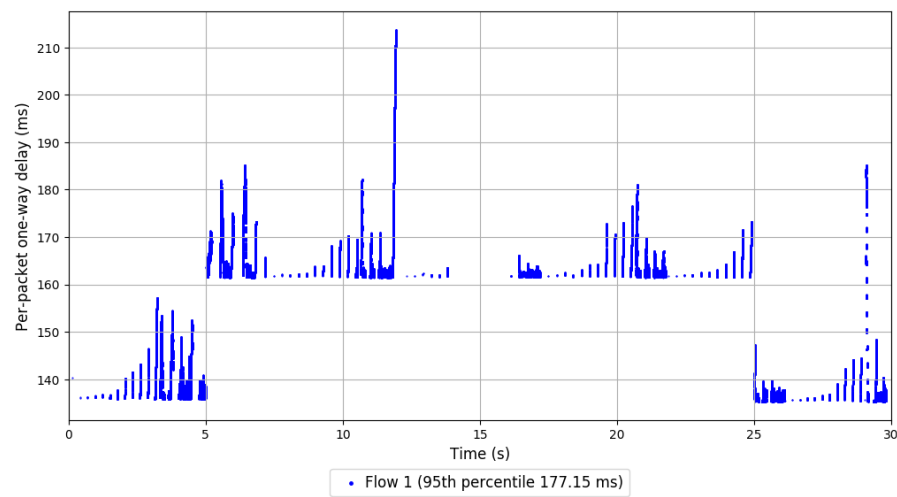
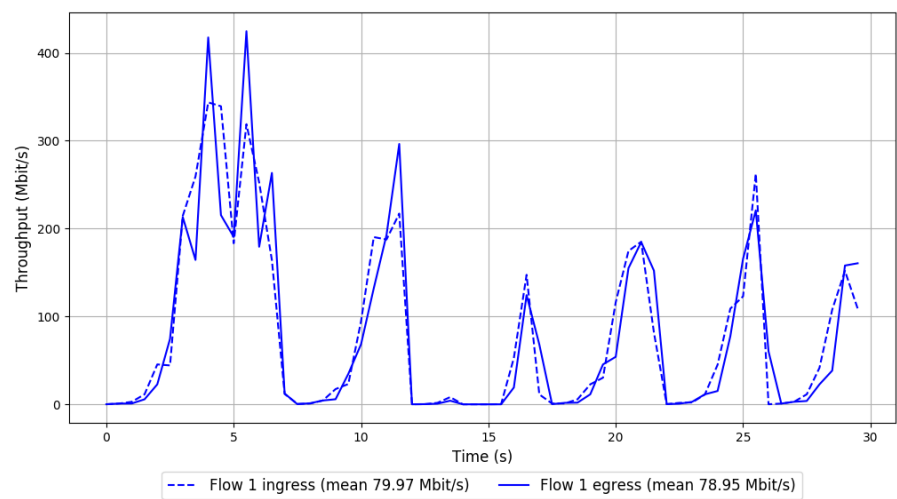
-- Flow 1:

Average throughput: 78.95 Mbit/s

95th percentile per-packet one-way delay: 177.145 ms

Loss rate: 1.29%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-13 14:41:48

End at: 2018-02-13 14:42:18

Below is generated by plot.py at 2018-02-13 17:51:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.46 Mbit/s

95th percentile per-packet one-way delay: 269.146 ms

Loss rate: 6.86%

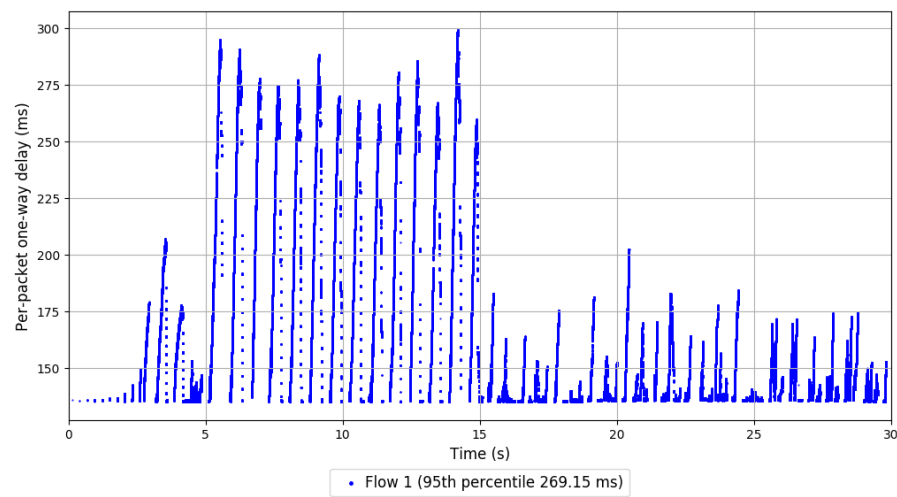
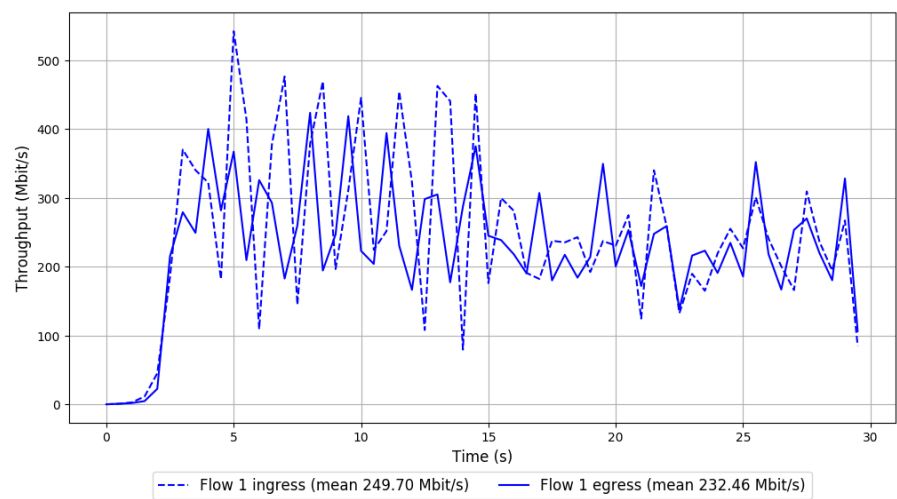
-- Flow 1:

Average throughput: 232.46 Mbit/s

95th percentile per-packet one-way delay: 269.146 ms

Loss rate: 6.86%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-13 14:57:44

End at: 2018-02-13 14:58:14

Below is generated by plot.py at 2018-02-13 17:51:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.77 Mbit/s

95th percentile per-packet one-way delay: 176.153 ms

Loss rate: 0.01%

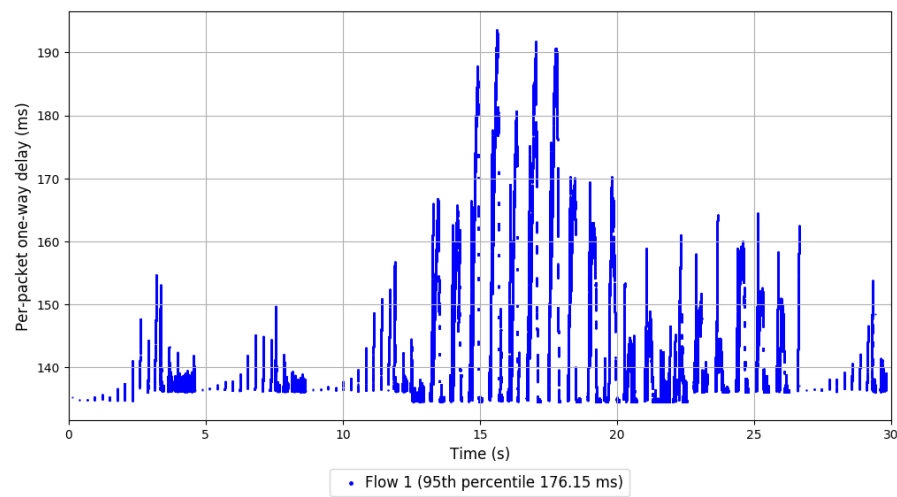
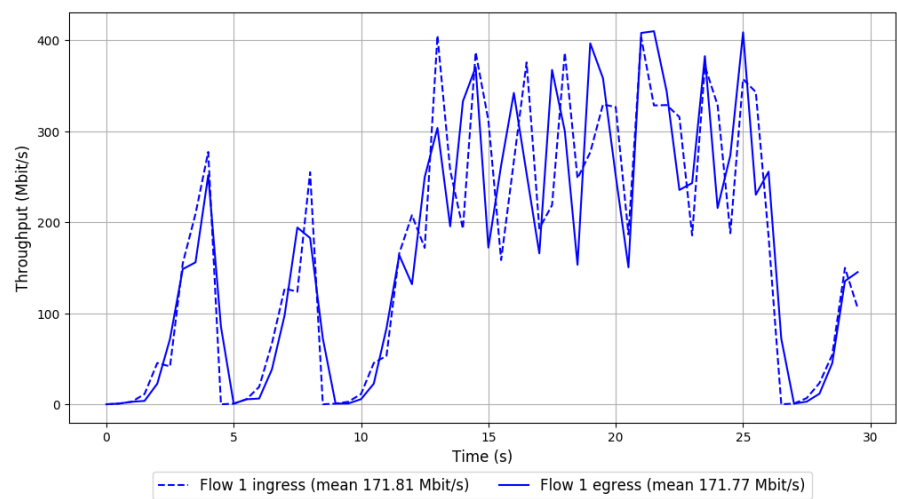
-- Flow 1:

Average throughput: 171.77 Mbit/s

95th percentile per-packet one-way delay: 176.153 ms

Loss rate: 0.01%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-13 15:14:07

End at: 2018-02-13 15:14:37

Below is generated by plot.py at 2018-02-13 17:52:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.56 Mbit/s

95th percentile per-packet one-way delay: 208.826 ms

Loss rate: 0.50%

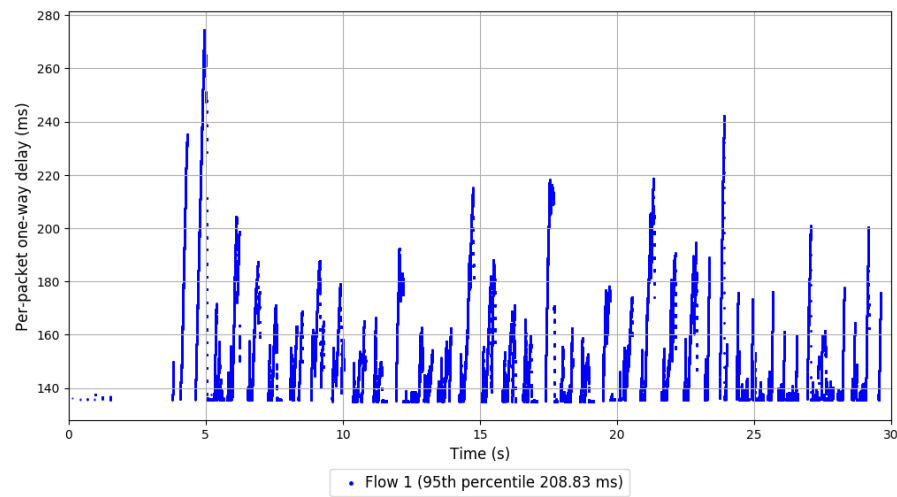
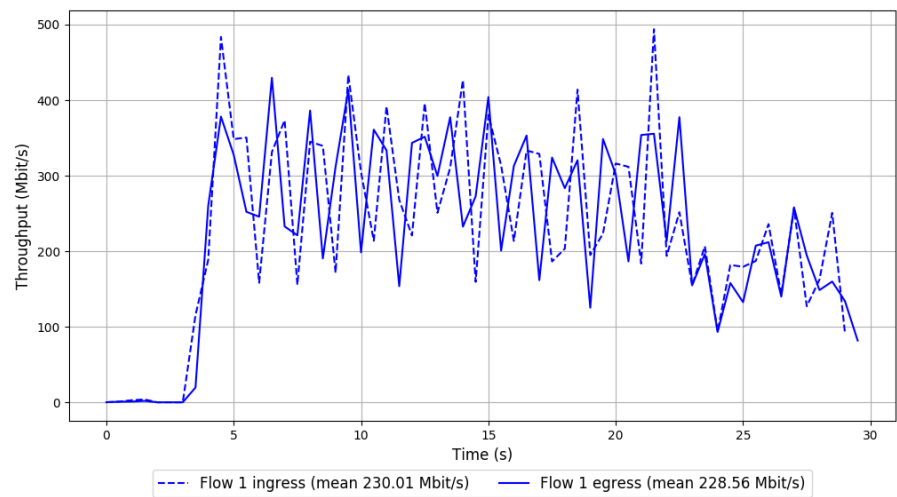
-- Flow 1:

Average throughput: 228.56 Mbit/s

95th percentile per-packet one-way delay: 208.826 ms

Loss rate: 0.50%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-13 15:30:22

End at: 2018-02-13 15:30:52

Below is generated by plot.py at 2018-02-13 17:52:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.84 Mbit/s

95th percentile per-packet one-way delay: 177.915 ms

Loss rate: 0.01%

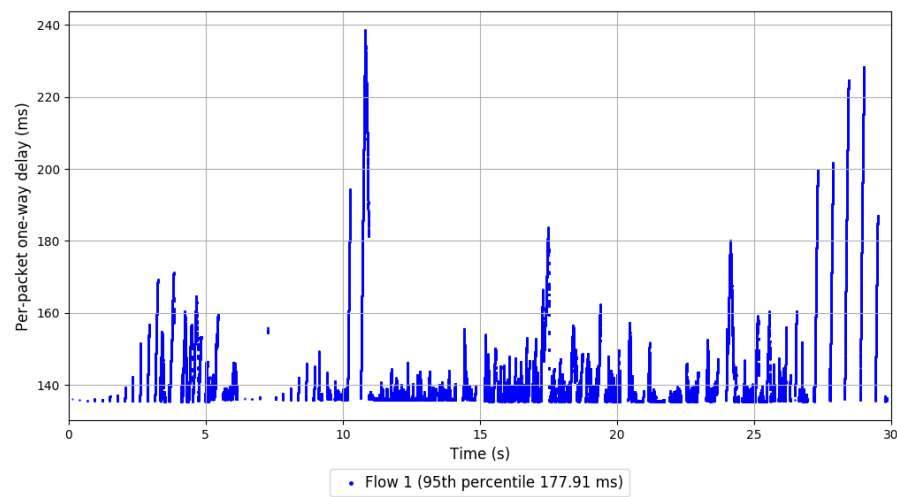
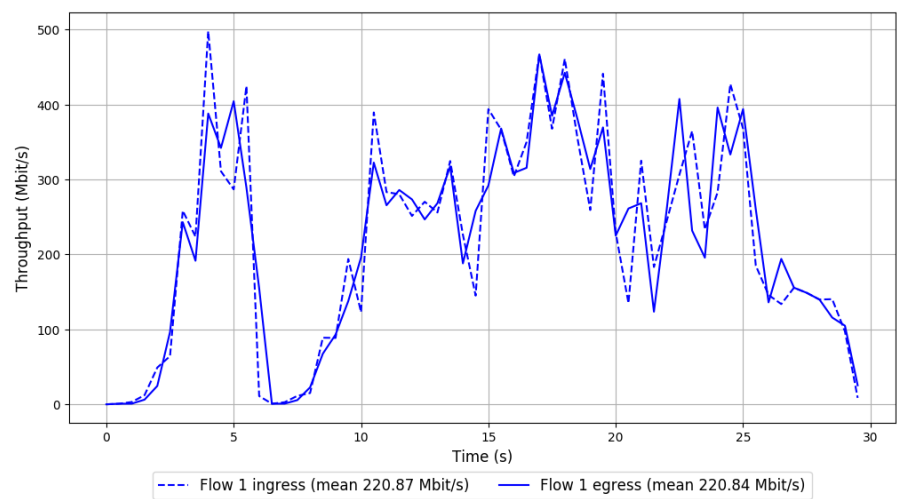
-- Flow 1:

Average throughput: 220.84 Mbit/s

95th percentile per-packet one-way delay: 177.915 ms

Loss rate: 0.01%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-13 15:46:24

End at: 2018-02-13 15:46:54

Below is generated by plot.py at 2018-02-13 17:52:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.58 Mbit/s

95th percentile per-packet one-way delay: 167.542 ms

Loss rate: 0.28%

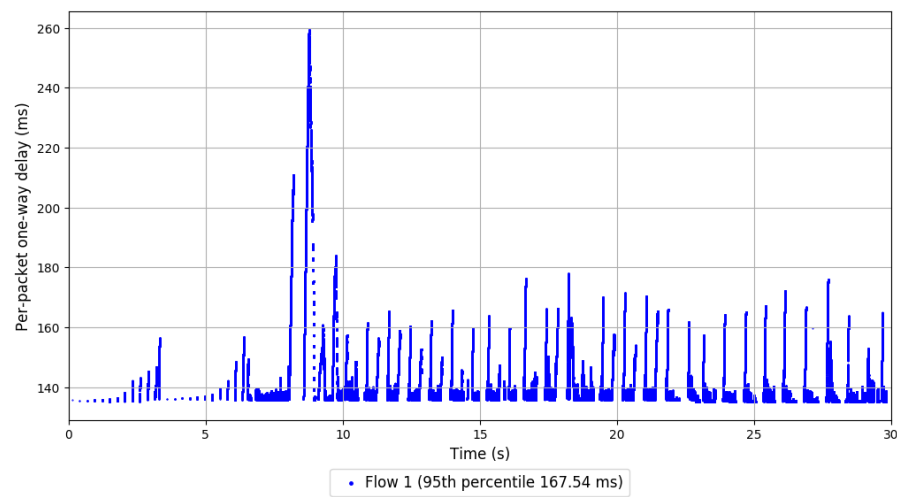
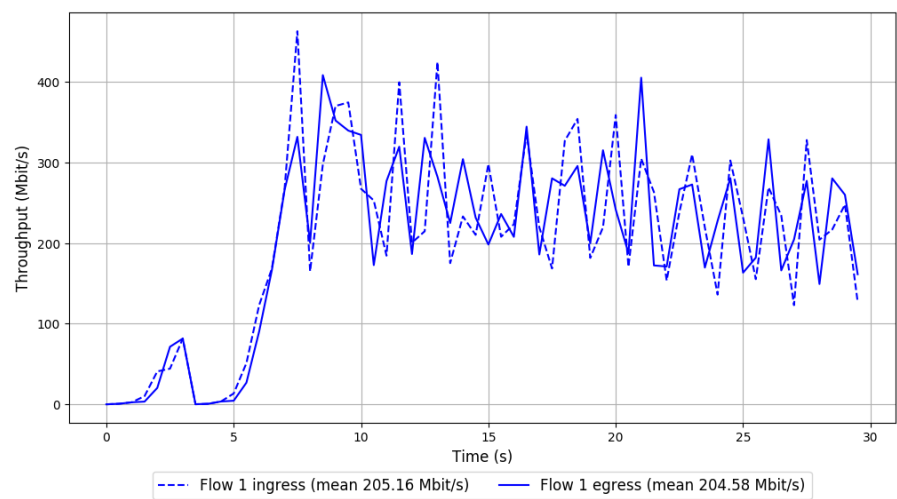
-- Flow 1:

Average throughput: 204.58 Mbit/s

95th percentile per-packet one-way delay: 167.542 ms

Loss rate: 0.28%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-13 16:02:40

End at: 2018-02-13 16:03:10

Below is generated by plot.py at 2018-02-13 17:52:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.72 Mbit/s

95th percentile per-packet one-way delay: 241.853 ms

Loss rate: 2.04%

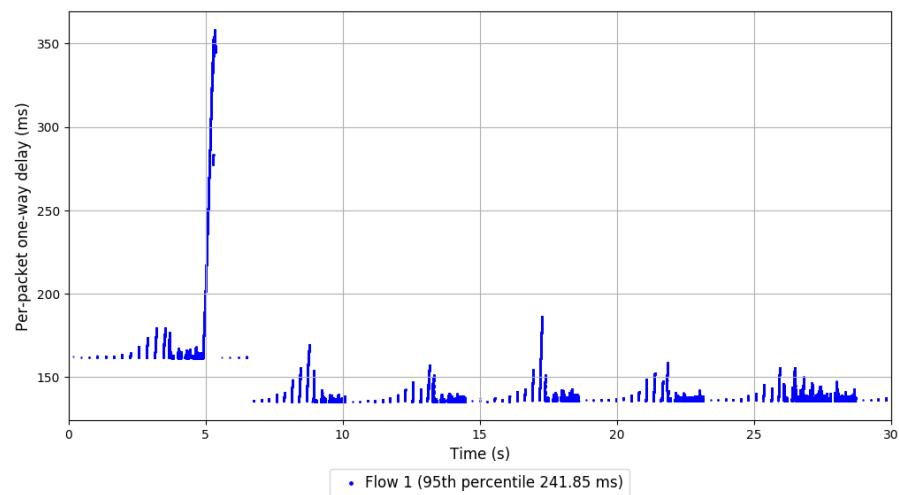
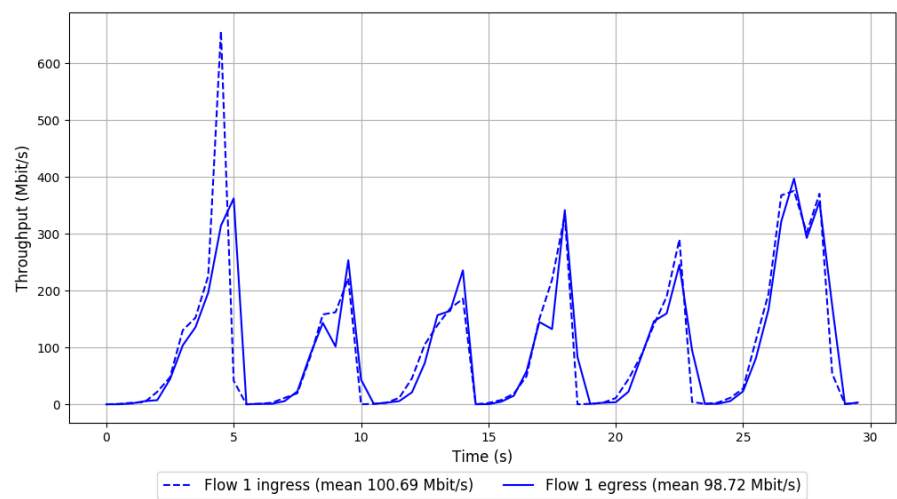
-- Flow 1:

Average throughput: 98.72 Mbit/s

95th percentile per-packet one-way delay: 241.853 ms

Loss rate: 2.04%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-13 16:18:13

End at: 2018-02-13 16:18:43

Below is generated by plot.py at 2018-02-13 17:52:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.82 Mbit/s

95th percentile per-packet one-way delay: 165.840 ms

Loss rate: 0.31%

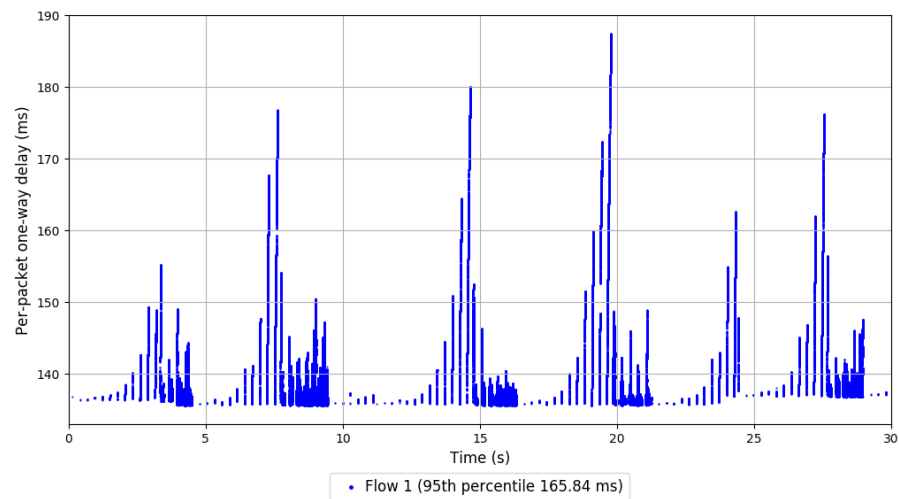
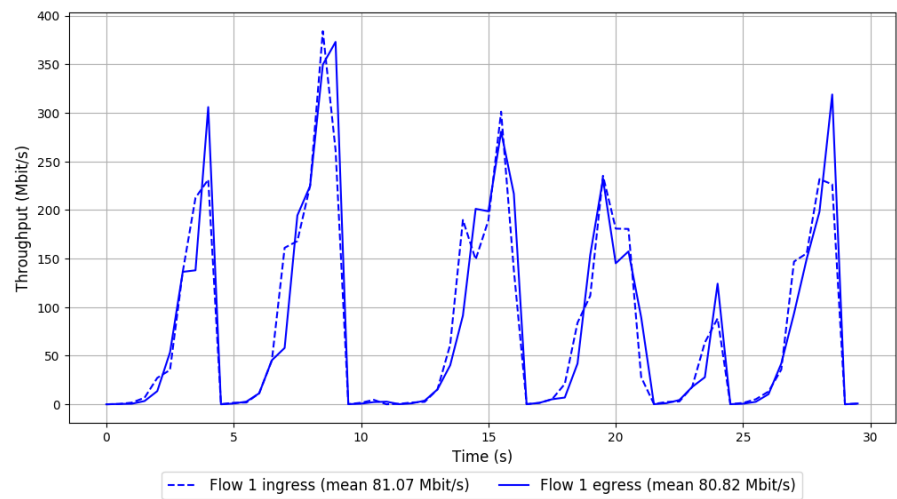
-- Flow 1:

Average throughput: 80.82 Mbit/s

95th percentile per-packet one-way delay: 165.840 ms

Loss rate: 0.31%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-13 13:47:24

End at: 2018-02-13 13:47:54

Below is generated by plot.py at 2018-02-13 17:52:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.51 Mbit/s

95th percentile per-packet one-way delay: 162.209 ms

Loss rate: 0.00%

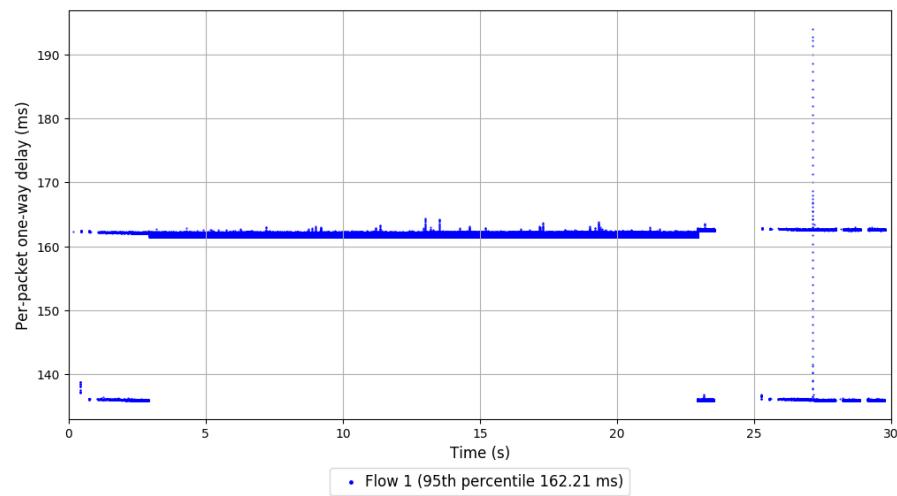
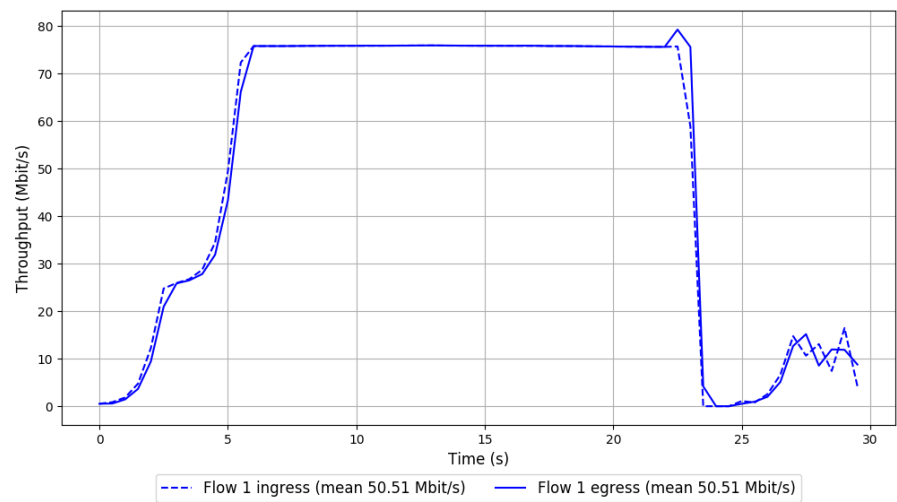
-- Flow 1:

Average throughput: 50.51 Mbit/s

95th percentile per-packet one-way delay: 162.209 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

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

End at: 2018-02-13 14:04:06

Below is generated by plot.py at 2018-02-13 17:52:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.65 Mbit/s

95th percentile per-packet one-way delay: 163.855 ms

Loss rate: 0.00%

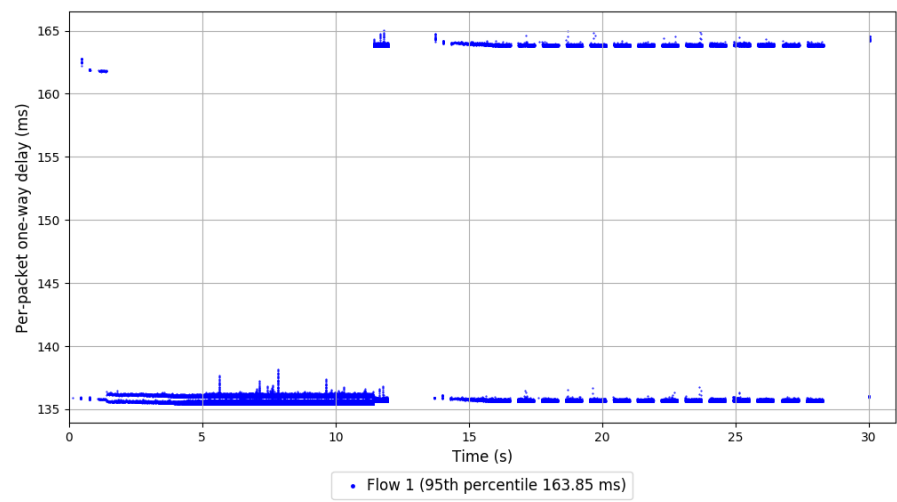
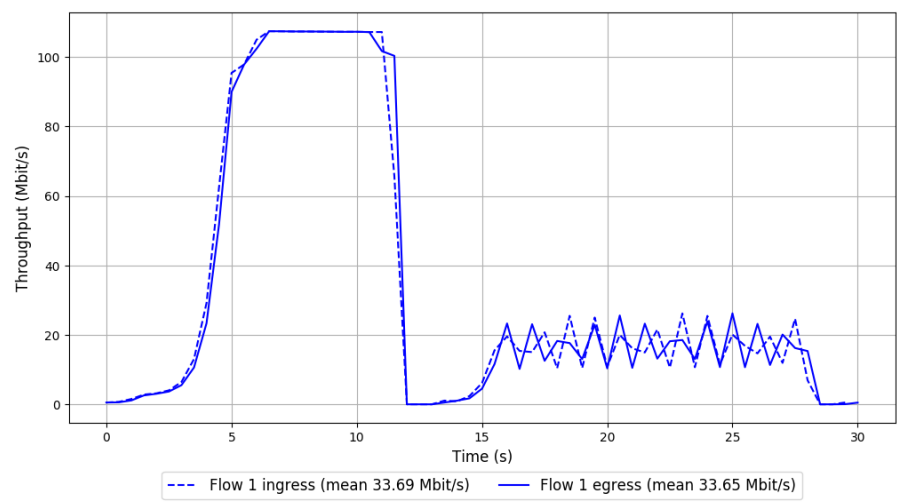
-- Flow 1:

Average throughput: 33.65 Mbit/s

95th percentile per-packet one-way delay: 163.855 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-13 14:19:32

End at: 2018-02-13 14:20:02

Below is generated by plot.py at 2018-02-13 17:52:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.78 Mbit/s

95th percentile per-packet one-way delay: 161.897 ms

Loss rate: 0.00%

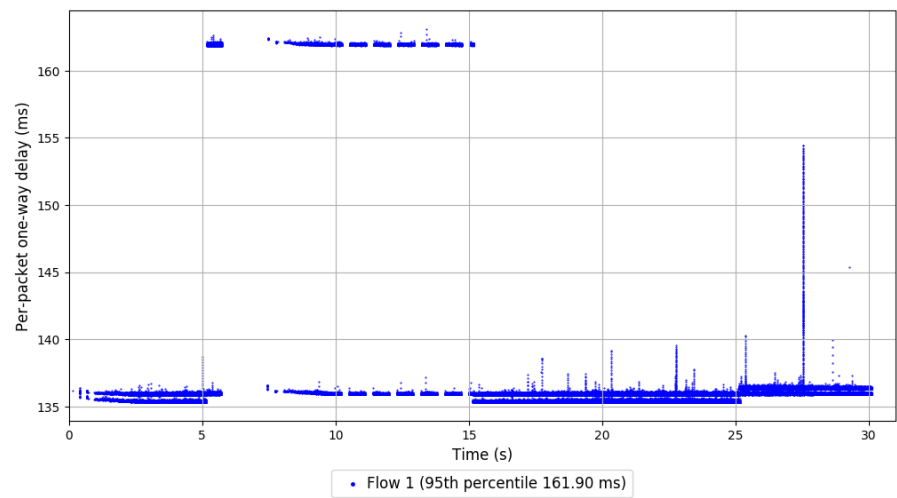
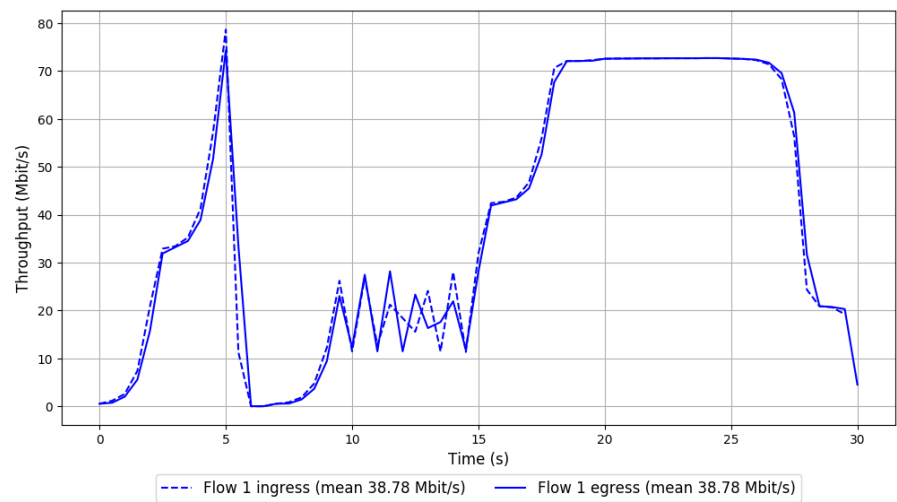
-- Flow 1:

Average throughput: 38.78 Mbit/s

95th percentile per-packet one-way delay: 161.897 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-13 14:35:11

End at: 2018-02-13 14:35:41

Below is generated by plot.py at 2018-02-13 17:52:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.90 Mbit/s

95th percentile per-packet one-way delay: 161.276 ms

Loss rate: 0.00%

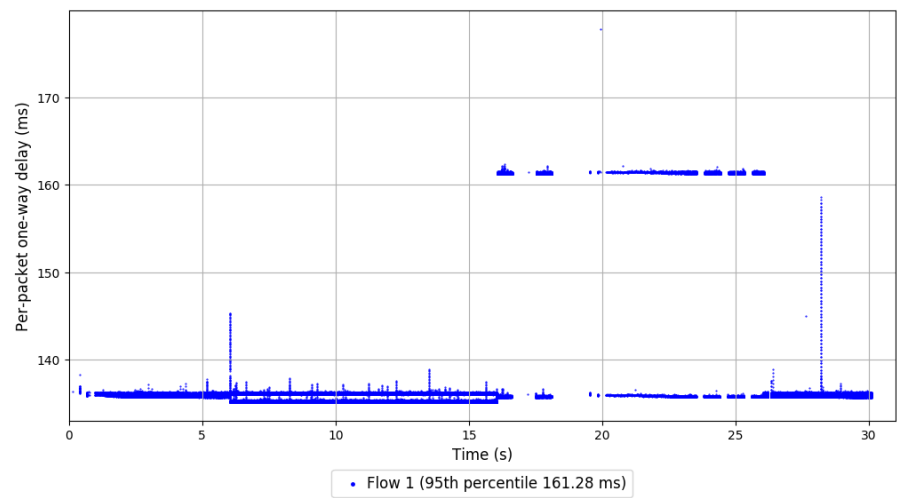
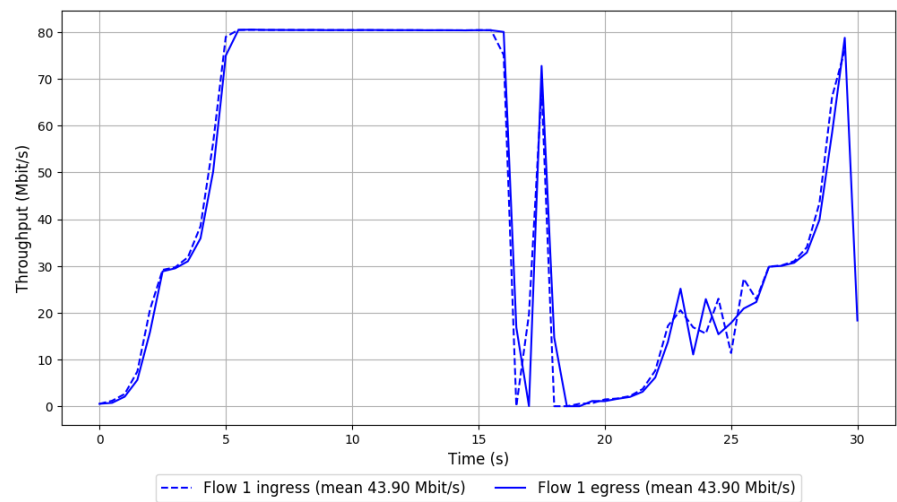
-- Flow 1:

Average throughput: 43.90 Mbit/s

95th percentile per-packet one-way delay: 161.276 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-13 14:51:18

End at: 2018-02-13 14:51:48

Below is generated by plot.py at 2018-02-13 17:52:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.86 Mbit/s

95th percentile per-packet one-way delay: 136.244 ms

Loss rate: 0.05%

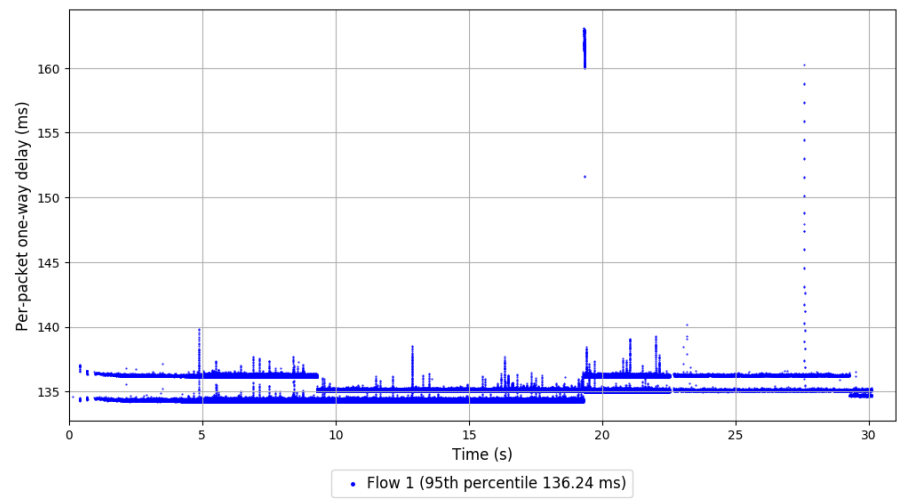
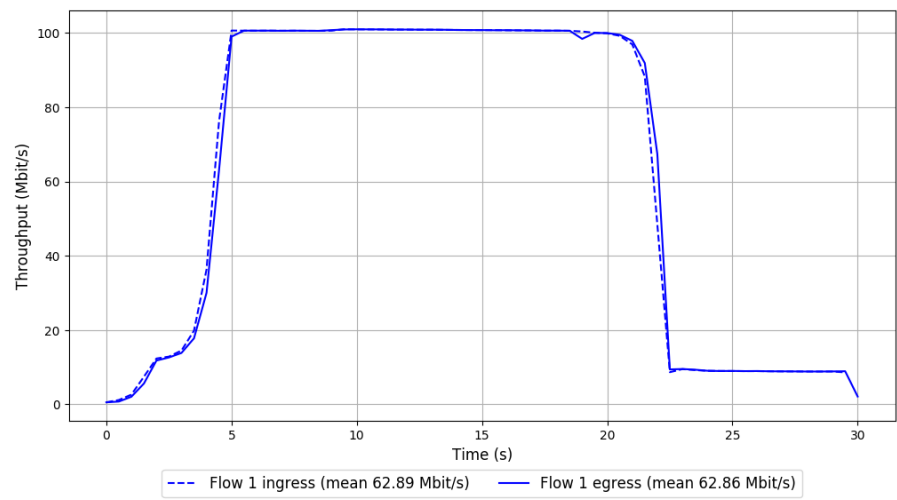
-- Flow 1:

Average throughput: 62.86 Mbit/s

95th percentile per-packet one-way delay: 136.244 ms

Loss rate: 0.05%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-13 15:07:30

End at: 2018-02-13 15:08:00

Below is generated by plot.py at 2018-02-13 17:52:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.37 Mbit/s

95th percentile per-packet one-way delay: 161.633 ms

Loss rate: 0.00%

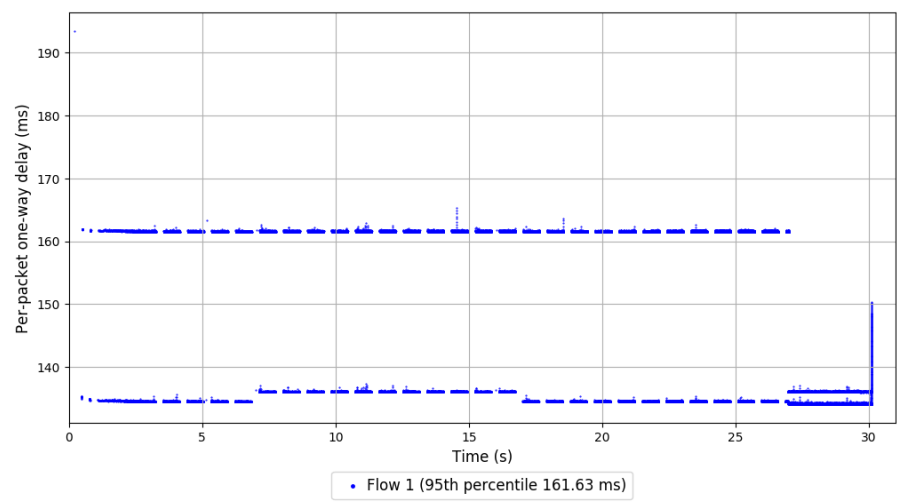
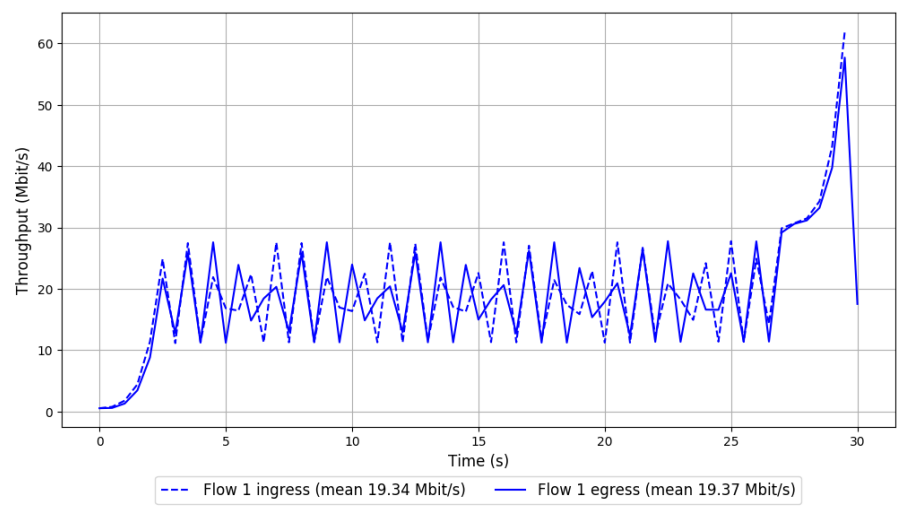
-- Flow 1:

Average throughput: 19.37 Mbit/s

95th percentile per-packet one-way delay: 161.633 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-13 15:24:00

End at: 2018-02-13 15:24:30

Below is generated by plot.py at 2018-02-13 17:52:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.34 Mbit/s

95th percentile per-packet one-way delay: 136.196 ms

Loss rate: 0.00%

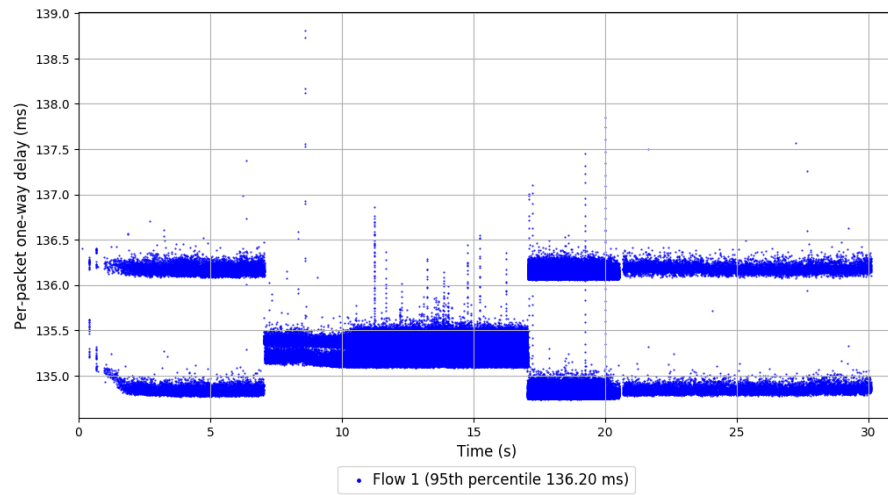
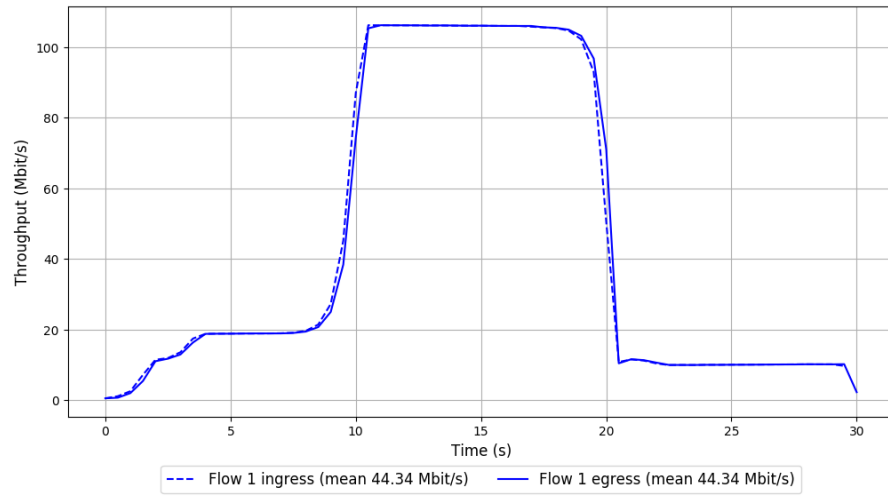
-- Flow 1:

Average throughput: 44.34 Mbit/s

95th percentile per-packet one-way delay: 136.196 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-13 15:40:12

End at: 2018-02-13 15:40:42

Below is generated by plot.py at 2018-02-13 17:52:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.92 Mbit/s

95th percentile per-packet one-way delay: 162.401 ms

Loss rate: 0.01%

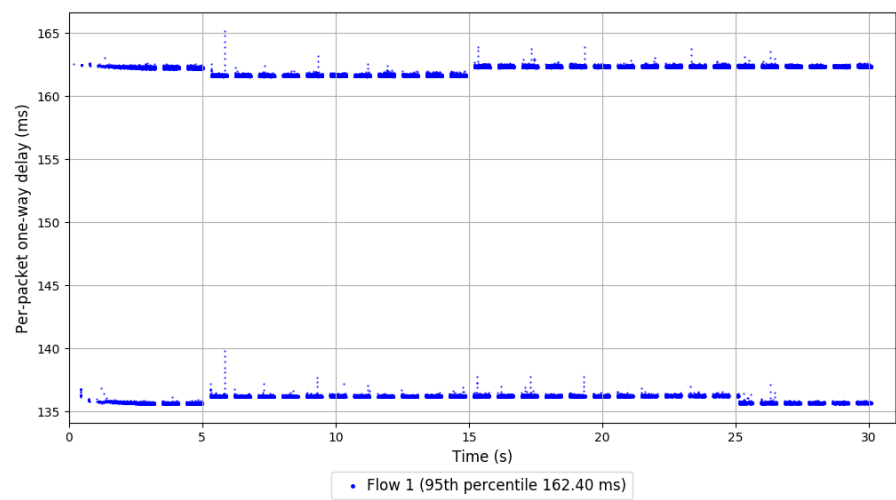
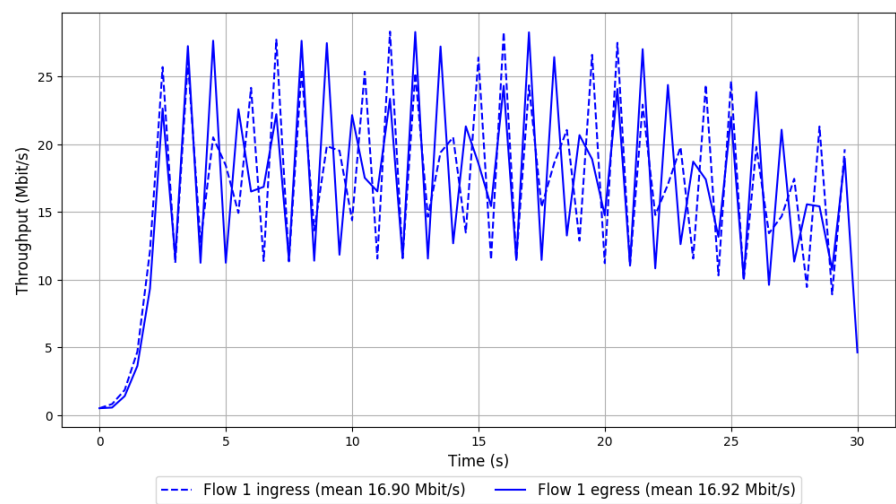
-- Flow 1:

Average throughput: 16.92 Mbit/s

95th percentile per-packet one-way delay: 162.401 ms

Loss rate: 0.01%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-13 15:56:04

End at: 2018-02-13 15:56:34

Below is generated by plot.py at 2018-02-13 17:52:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.14 Mbit/s

95th percentile per-packet one-way delay: 161.568 ms

Loss rate: 0.00%

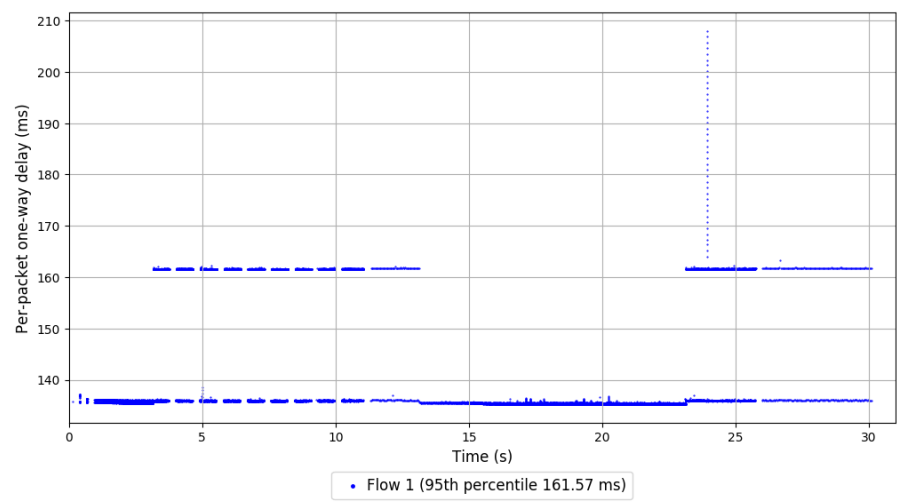
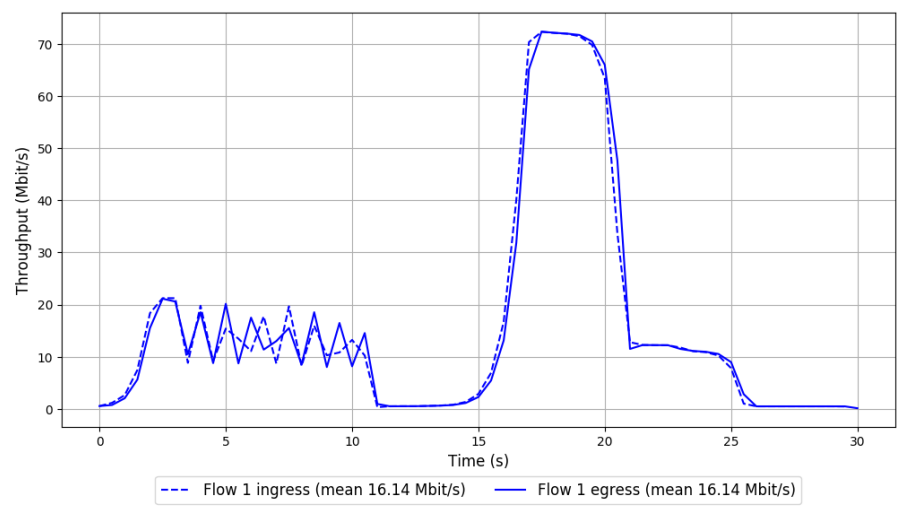
-- Flow 1:

Average throughput: 16.14 Mbit/s

95th percentile per-packet one-way delay: 161.568 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-13 16:11:57

End at: 2018-02-13 16:12:27

Below is generated by plot.py at 2018-02-13 17:52:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.13 Mbit/s

95th percentile per-packet one-way delay: 162.564 ms

Loss rate: 0.00%

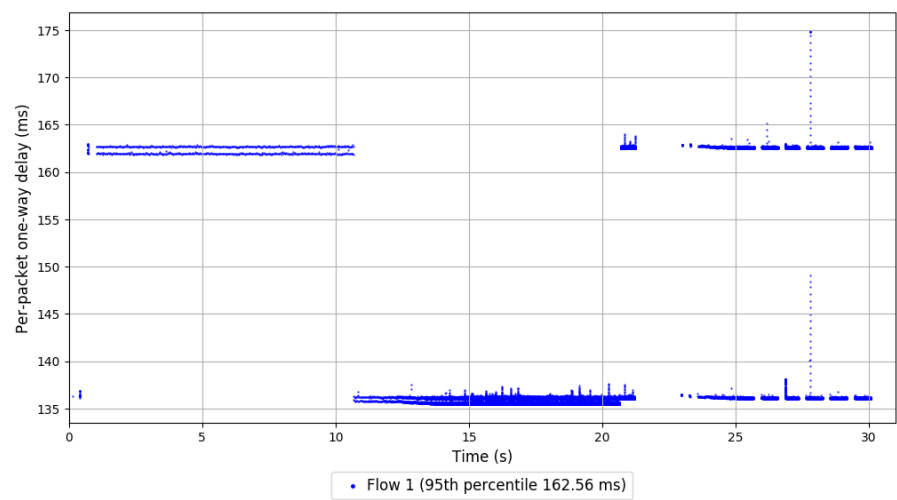
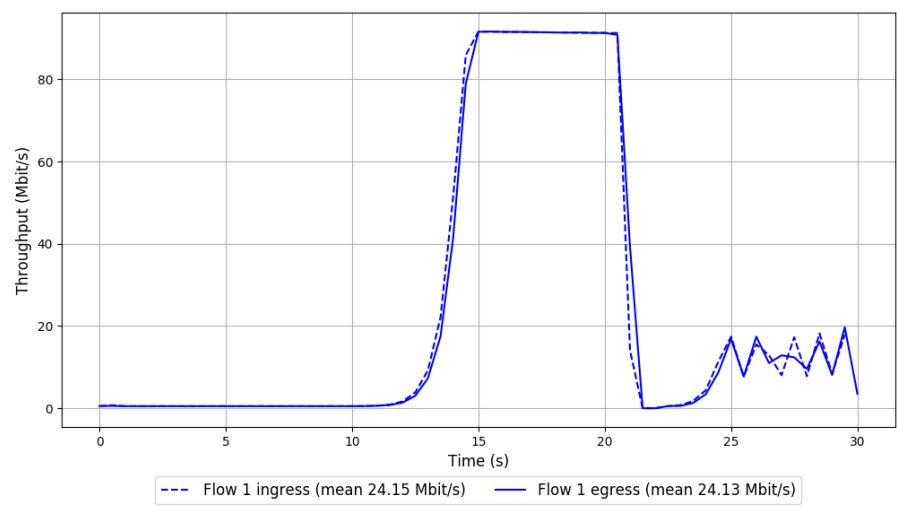
-- Flow 1:

Average throughput: 24.13 Mbit/s

95th percentile per-packet one-way delay: 162.564 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

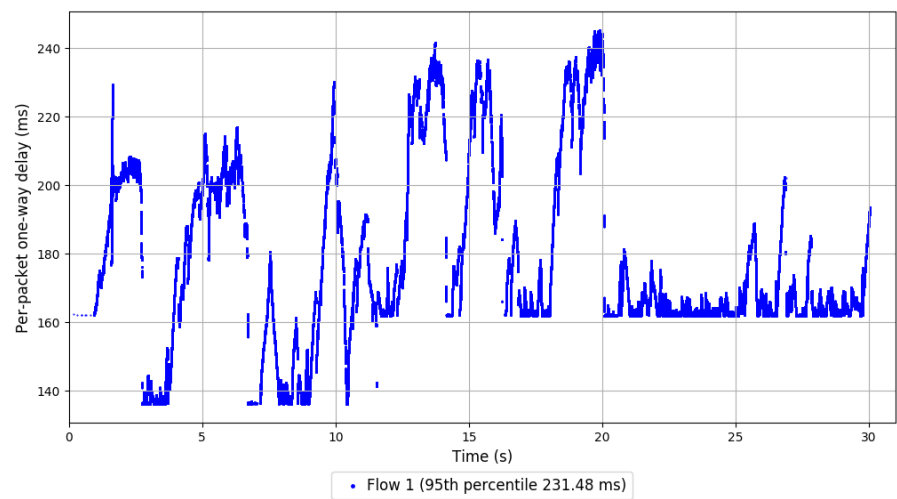
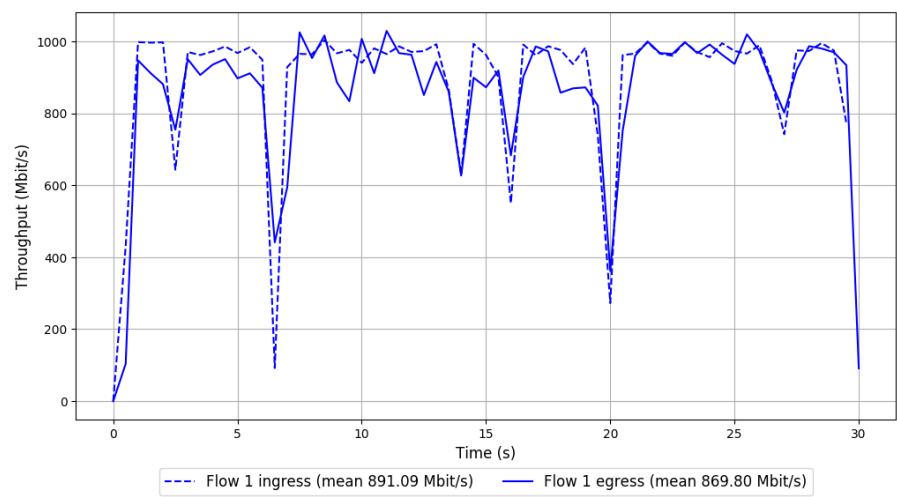


```
Run 1: Statistics of FillP

Start at: 2018-02-13 13:46:06
End at: 2018-02-13 13:46:36

# Below is generated by plot.py at 2018-02-13 18:07:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 869.80 Mbit/s
95th percentile per-packet one-way delay: 231.479 ms
Loss rate: 2.47%
-- Flow 1:
Average throughput: 869.80 Mbit/s
95th percentile per-packet one-way delay: 231.479 ms
Loss rate: 2.47%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-13 14:02:17

End at: 2018-02-13 14:02:47

Below is generated by plot.py at 2018-02-13 18:07:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 855.16 Mbit/s

95th percentile per-packet one-way delay: 234.013 ms

Loss rate: 4.28%

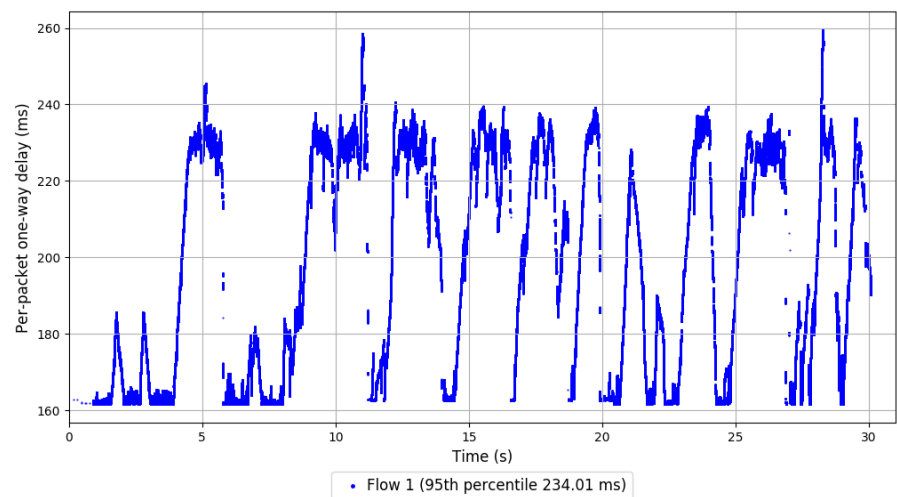
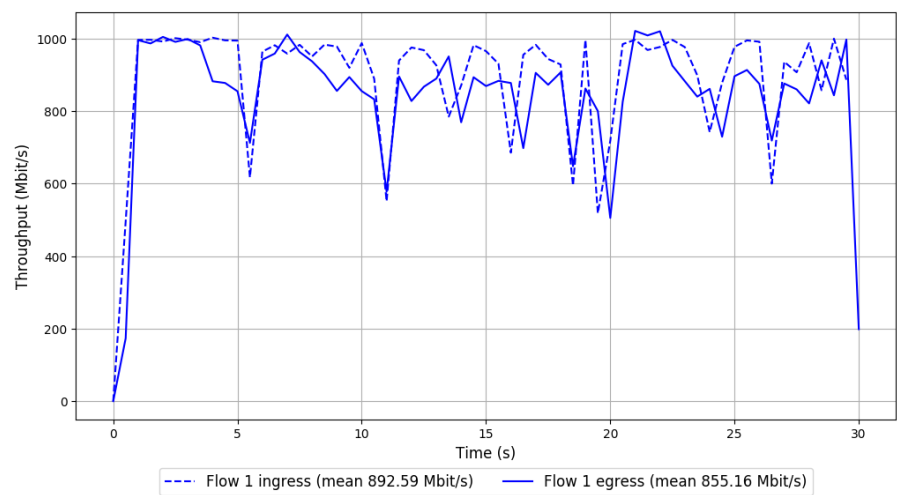
-- Flow 1:

Average throughput: 855.16 Mbit/s

95th percentile per-packet one-way delay: 234.013 ms

Loss rate: 4.28%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-13 14:18:12

End at: 2018-02-13 14:18:42

Below is generated by plot.py at 2018-02-13 18:08:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 923.71 Mbit/s

95th percentile per-packet one-way delay: 219.201 ms

Loss rate: 1.52%

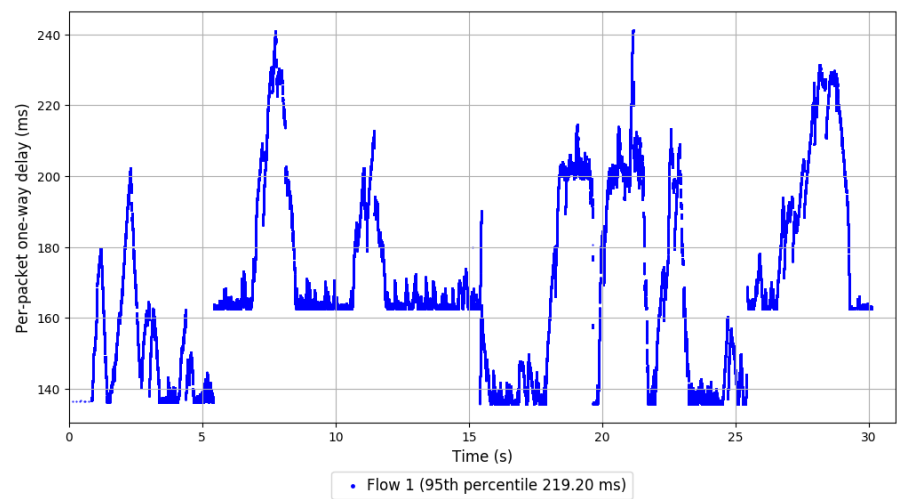
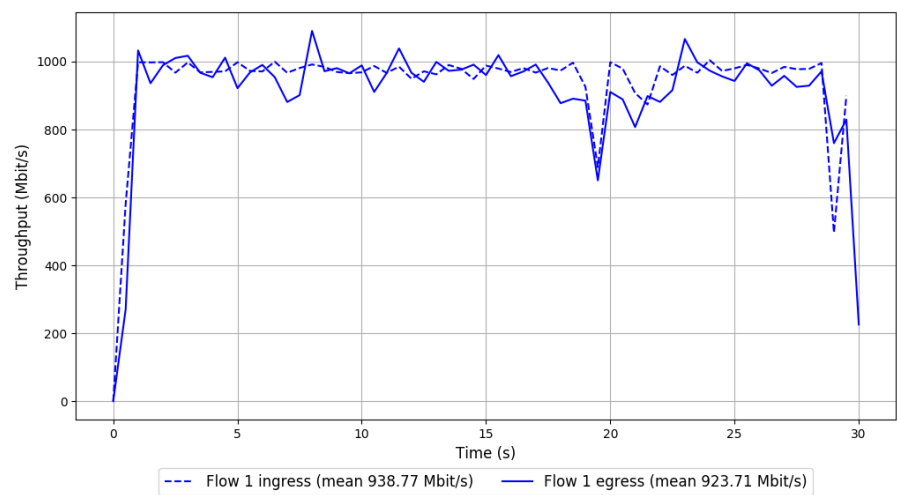
-- Flow 1:

Average throughput: 923.71 Mbit/s

95th percentile per-packet one-way delay: 219.201 ms

Loss rate: 1.52%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-13 14:33:52

End at: 2018-02-13 14:34:22

Below is generated by plot.py at 2018-02-13 18:08:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 868.27 Mbit/s

95th percentile per-packet one-way delay: 229.309 ms

Loss rate: 3.15%

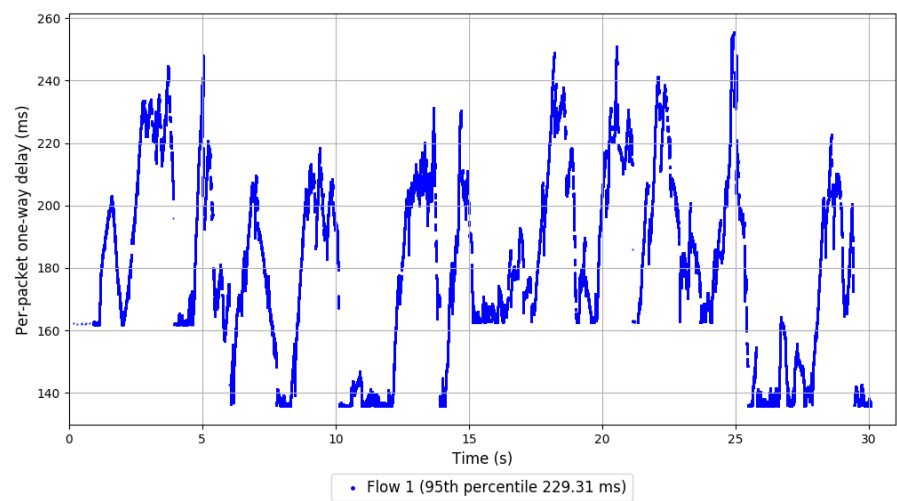
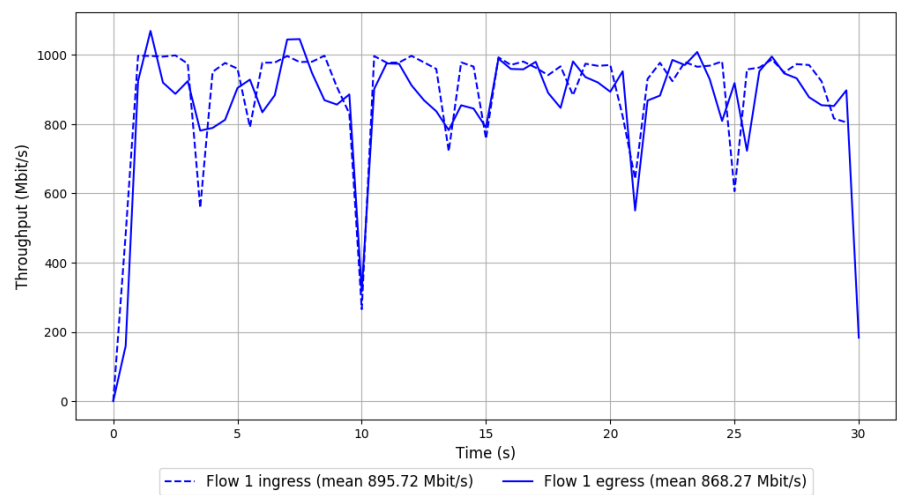
-- Flow 1:

Average throughput: 868.27 Mbit/s

95th percentile per-packet one-way delay: 229.309 ms

Loss rate: 3.15%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-13 14:49:59

End at: 2018-02-13 14:50:29

Below is generated by plot.py at 2018-02-13 18:08:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 878.35 Mbit/s

95th percentile per-packet one-way delay: 208.064 ms

Loss rate: 3.48%

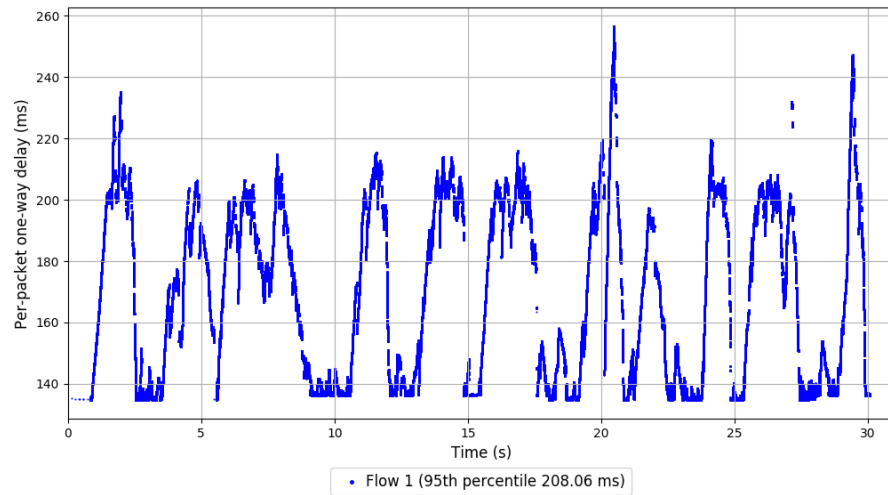
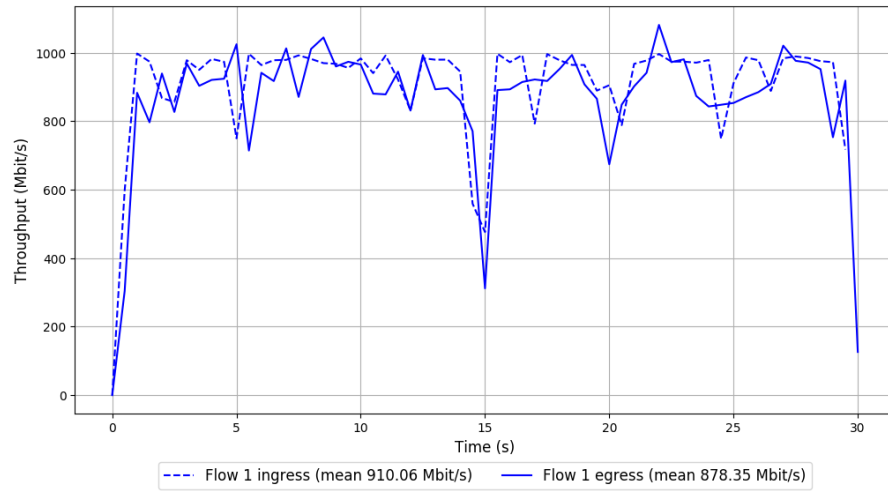
-- Flow 1:

Average throughput: 878.35 Mbit/s

95th percentile per-packet one-way delay: 208.064 ms

Loss rate: 3.48%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-13 15:06:12

End at: 2018-02-13 15:06:42

Below is generated by plot.py at 2018-02-13 18:08:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 905.08 Mbit/s

95th percentile per-packet one-way delay: 205.238 ms

Loss rate: 1.91%

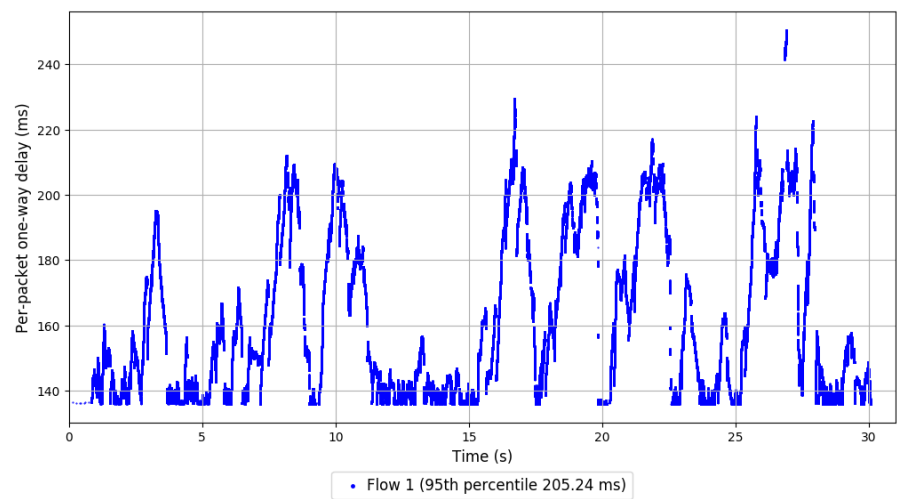
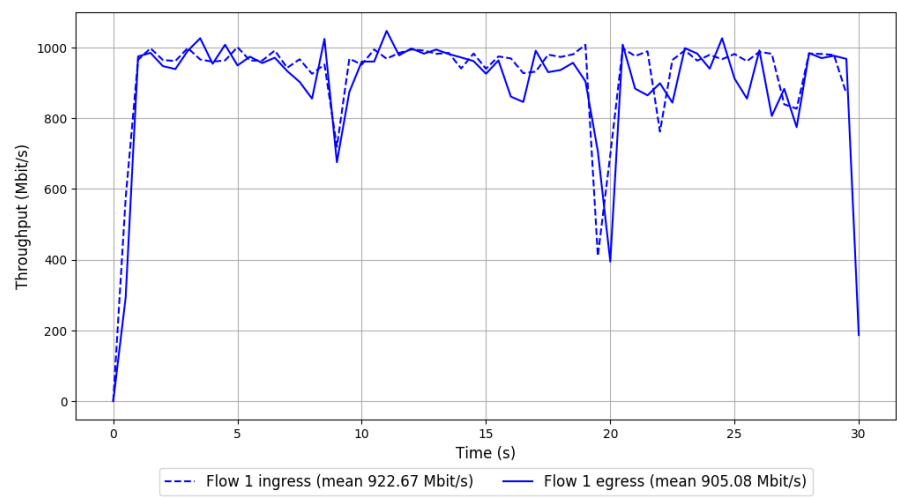
-- Flow 1:

Average throughput: 905.08 Mbit/s

95th percentile per-packet one-way delay: 205.238 ms

Loss rate: 1.91%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-13 15:22:40

End at: 2018-02-13 15:23:10

Below is generated by plot.py at 2018-02-13 18:08:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 898.50 Mbit/s

95th percentile per-packet one-way delay: 204.394 ms

Loss rate: 1.63%

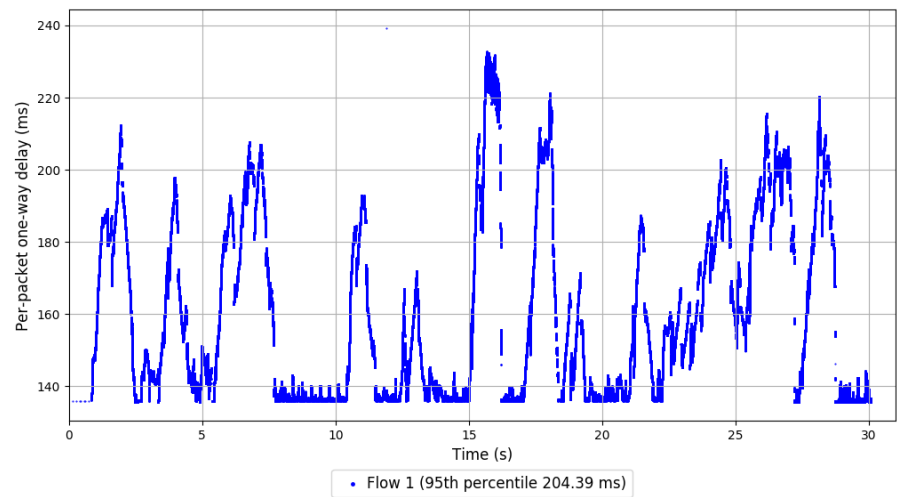
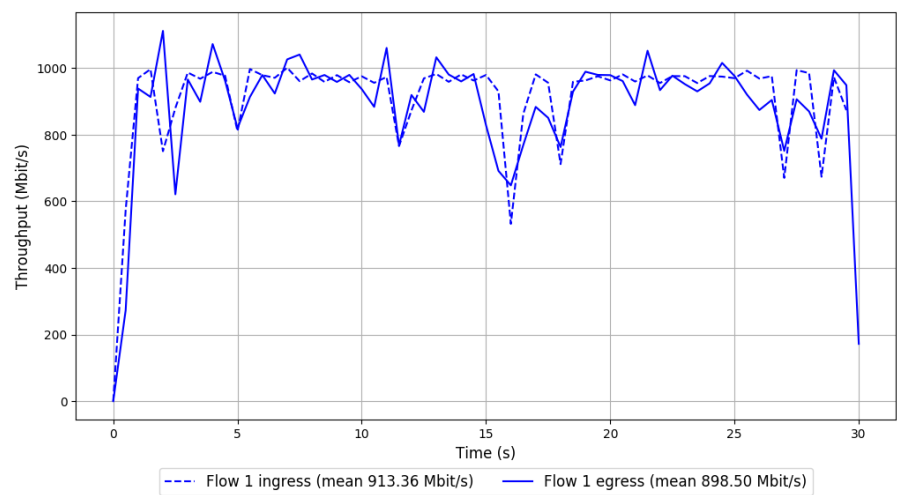
-- Flow 1:

Average throughput: 898.50 Mbit/s

95th percentile per-packet one-way delay: 204.394 ms

Loss rate: 1.63%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-13 15:38:53

End at: 2018-02-13 15:39:23

Below is generated by plot.py at 2018-02-13 18:08:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 879.52 Mbit/s

95th percentile per-packet one-way delay: 233.322 ms

Loss rate: 3.77%

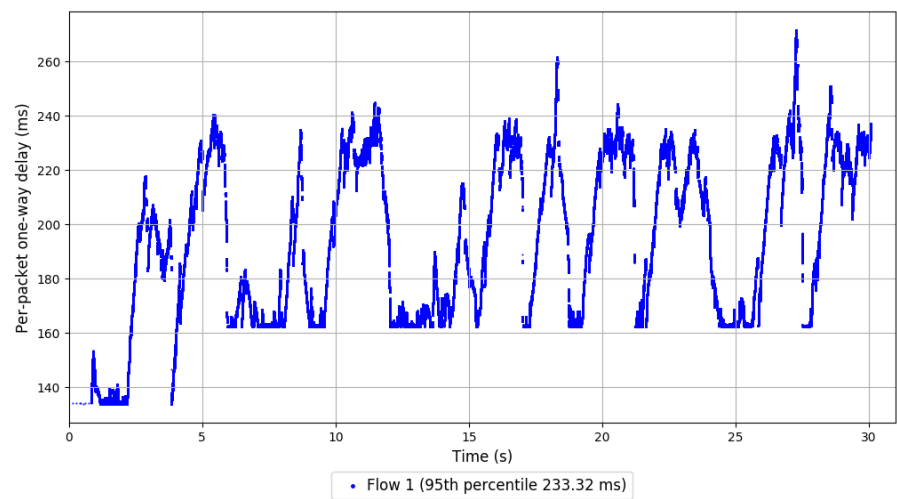
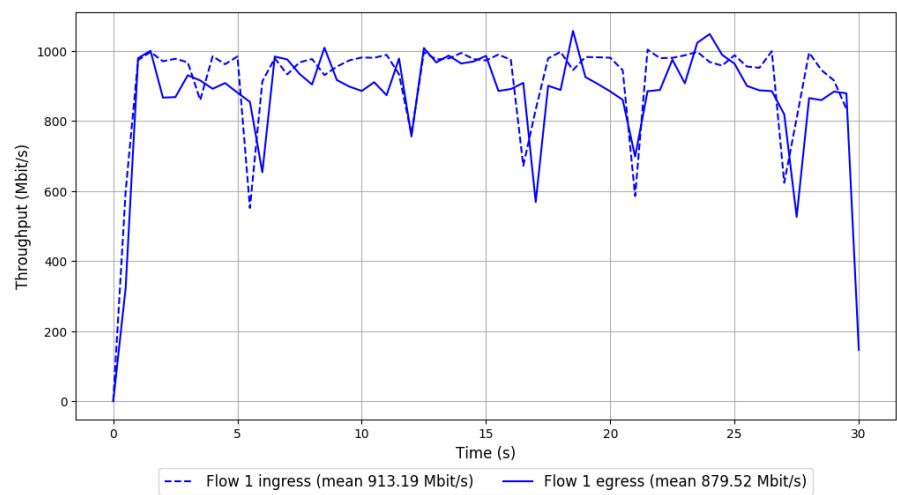
-- Flow 1:

Average throughput: 879.52 Mbit/s

95th percentile per-packet one-way delay: 233.322 ms

Loss rate: 3.77%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-13 15:54:45

End at: 2018-02-13 15:55:15

Below is generated by plot.py at 2018-02-13 18:24:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 909.94 Mbit/s

95th percentile per-packet one-way delay: 203.152 ms

Loss rate: 1.90%

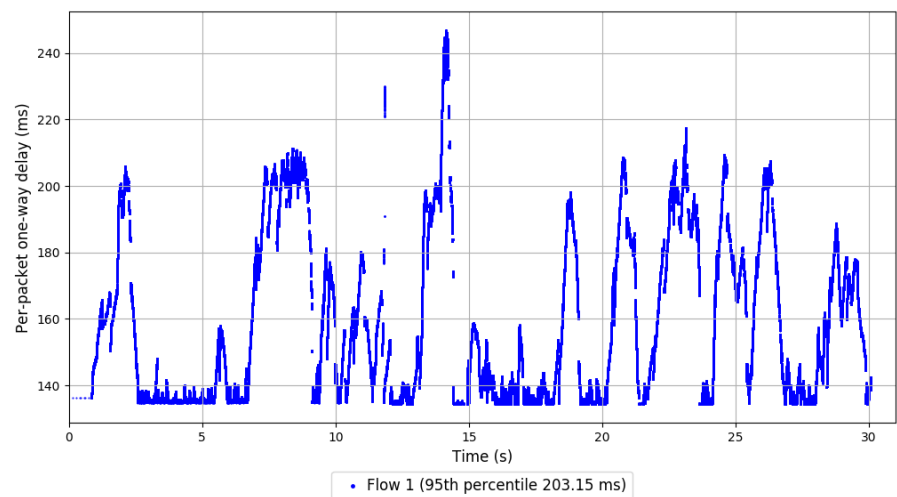
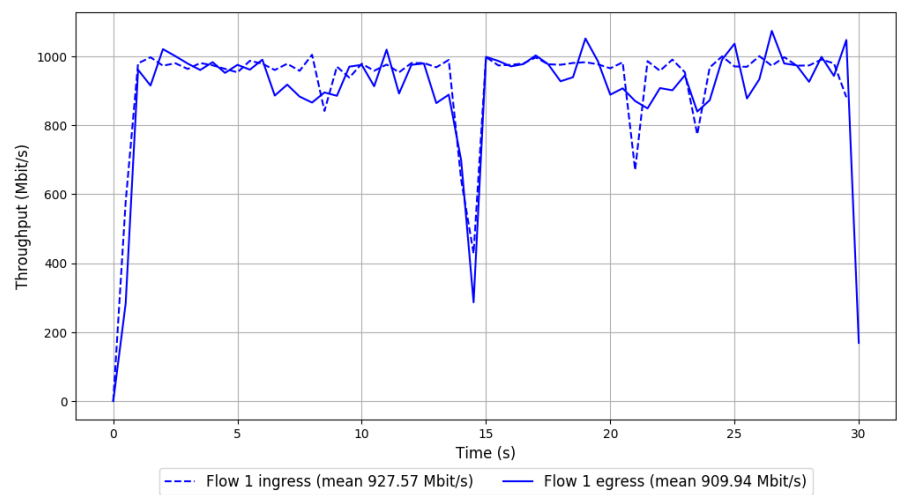
-- Flow 1:

Average throughput: 909.94 Mbit/s

95th percentile per-packet one-way delay: 203.152 ms

Loss rate: 1.90%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-13 16:10:37

End at: 2018-02-13 16:11:07

Below is generated by plot.py at 2018-02-13 18:24:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 879.39 Mbit/s

95th percentile per-packet one-way delay: 205.936 ms

Loss rate: 2.18%

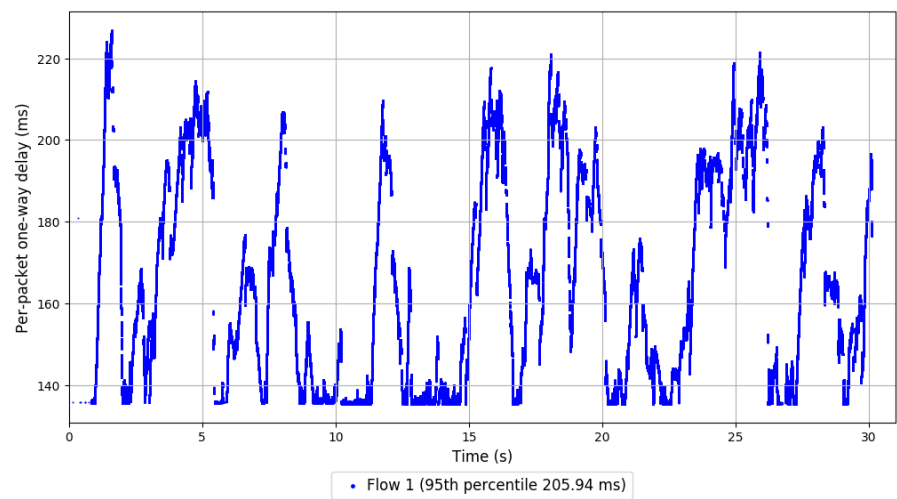
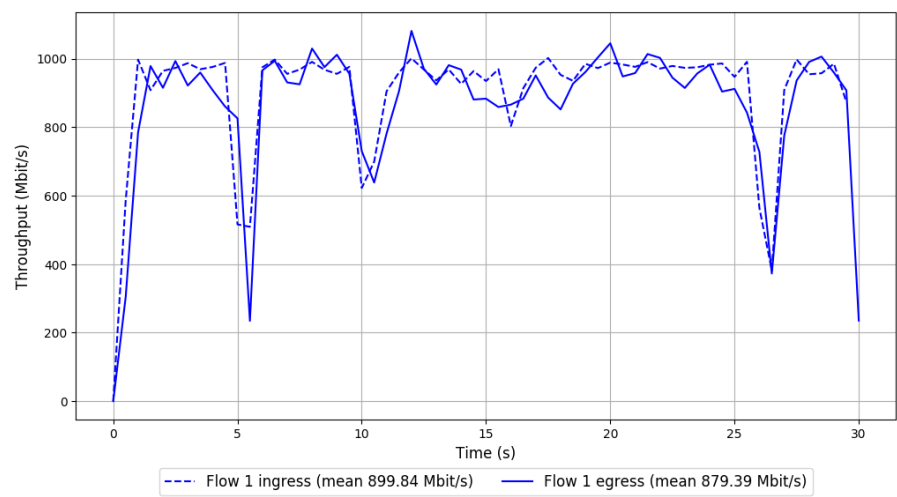
-- Flow 1:

Average throughput: 879.39 Mbit/s

95th percentile per-packet one-way delay: 205.936 ms

Loss rate: 2.18%

Run 10: Report of FillP — Data Link

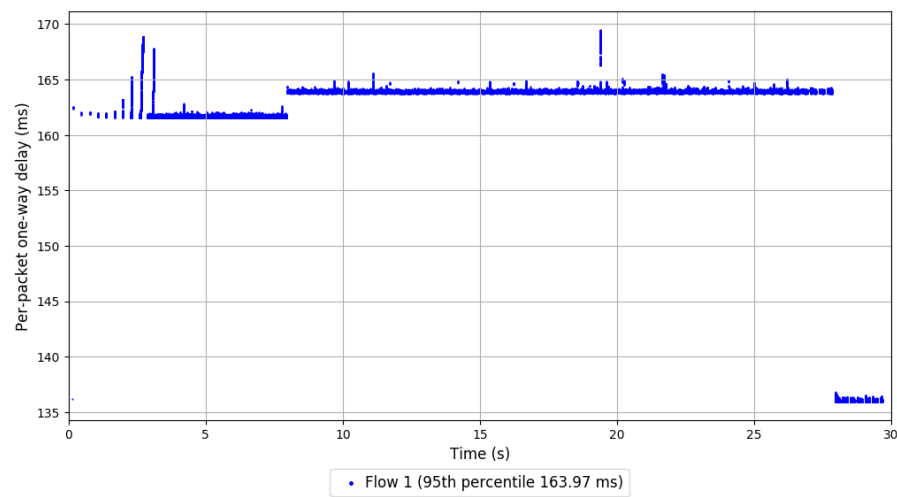
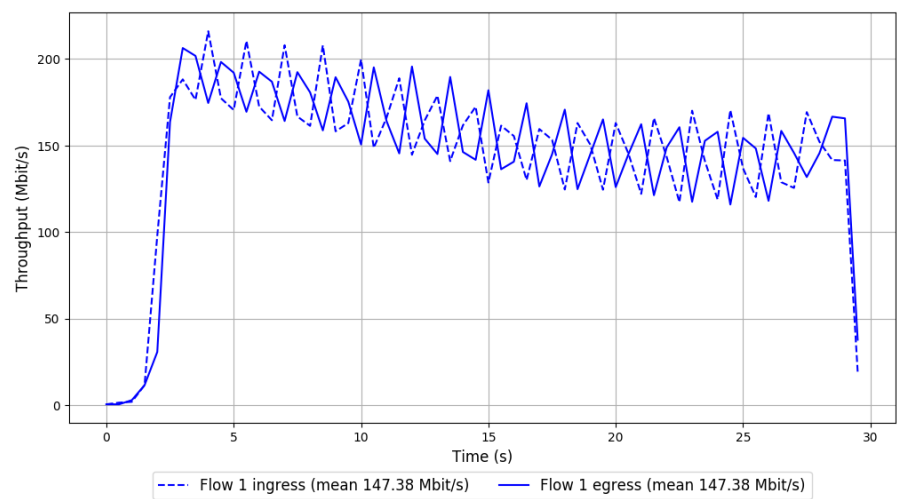


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-13 13:58:59
End at: 2018-02-13 13:59:29

# Below is generated by plot.py at 2018-02-13 18:24:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 147.38 Mbit/s
95th percentile per-packet one-way delay: 163.971 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 147.38 Mbit/s
95th percentile per-packet one-way delay: 163.971 ms
Loss rate: 0.00%
```

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

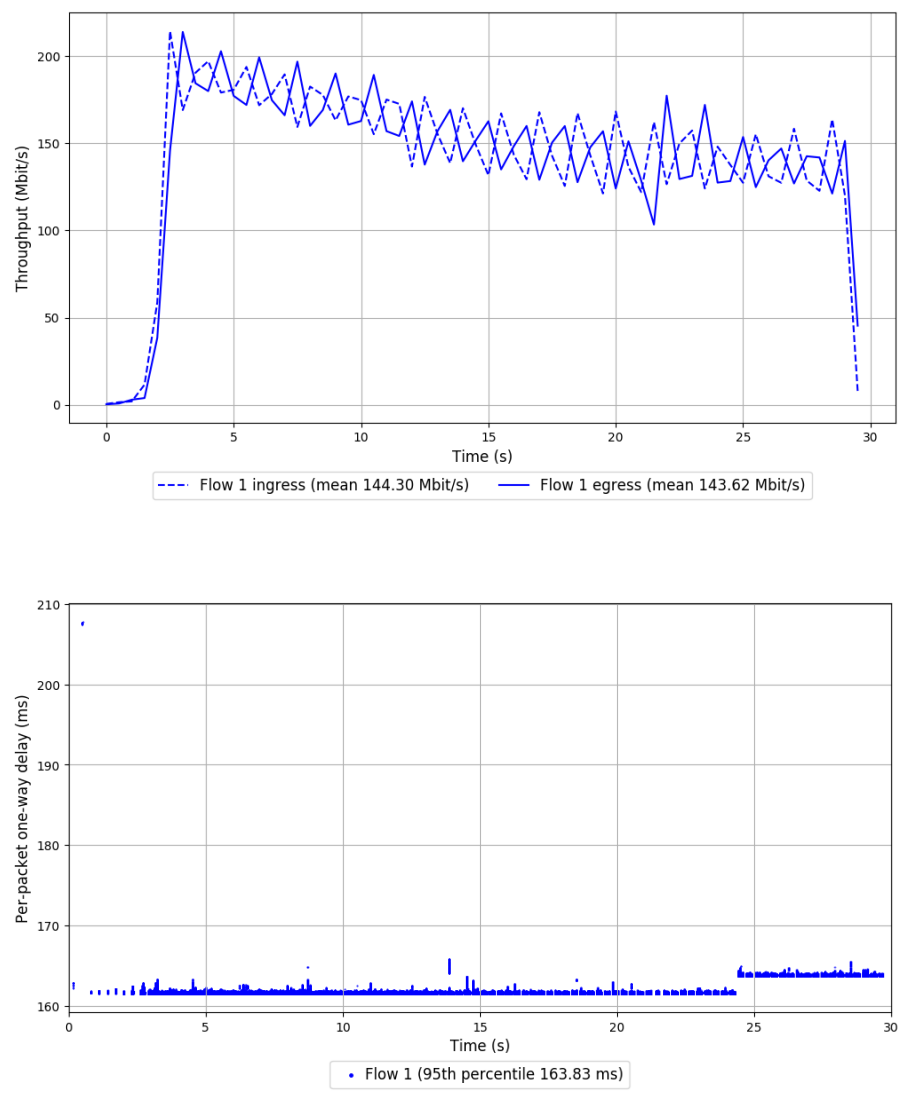


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-02-13 14:14:52
End at: 2018-02-13 14:15:22

# Below is generated by plot.py at 2018-02-13 18:24:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 143.62 Mbit/s
95th percentile per-packet one-way delay: 163.831 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 143.62 Mbit/s
95th percentile per-packet one-way delay: 163.831 ms
Loss rate: 0.47%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-13 14:30:35

End at: 2018-02-13 14:31:05

Below is generated by plot.py at 2018-02-13 18:24:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.32 Mbit/s

95th percentile per-packet one-way delay: 161.501 ms

Loss rate: 0.24%

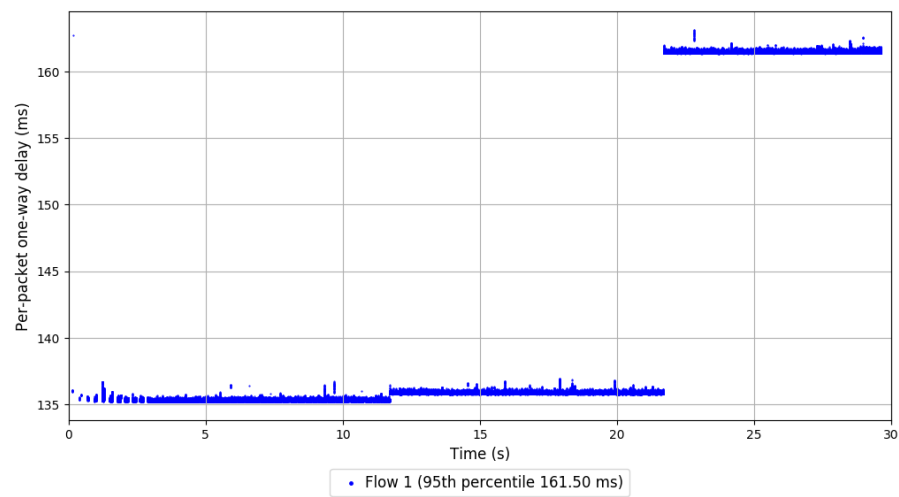
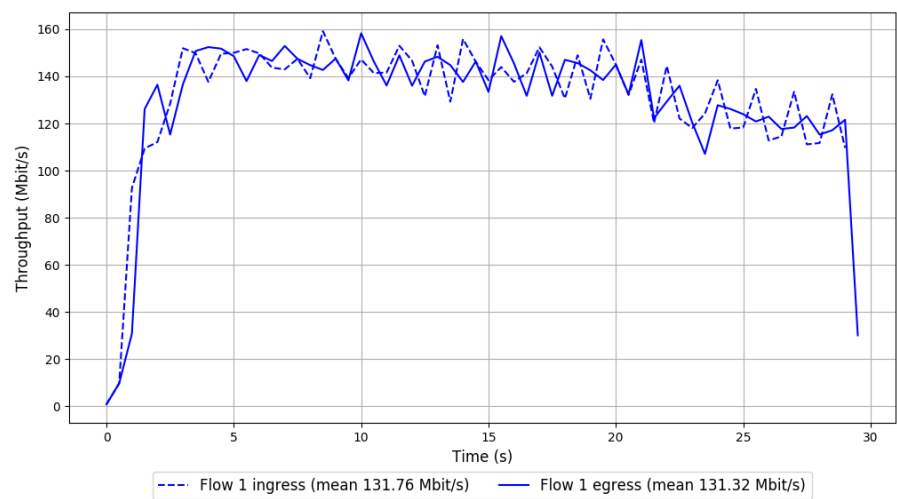
-- Flow 1:

Average throughput: 131.32 Mbit/s

95th percentile per-packet one-way delay: 161.501 ms

Loss rate: 0.24%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-13 14:46:40

End at: 2018-02-13 14:47:10

Below is generated by plot.py at 2018-02-13 18:24:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.07 Mbit/s

95th percentile per-packet one-way delay: 161.322 ms

Loss rate: 0.47%

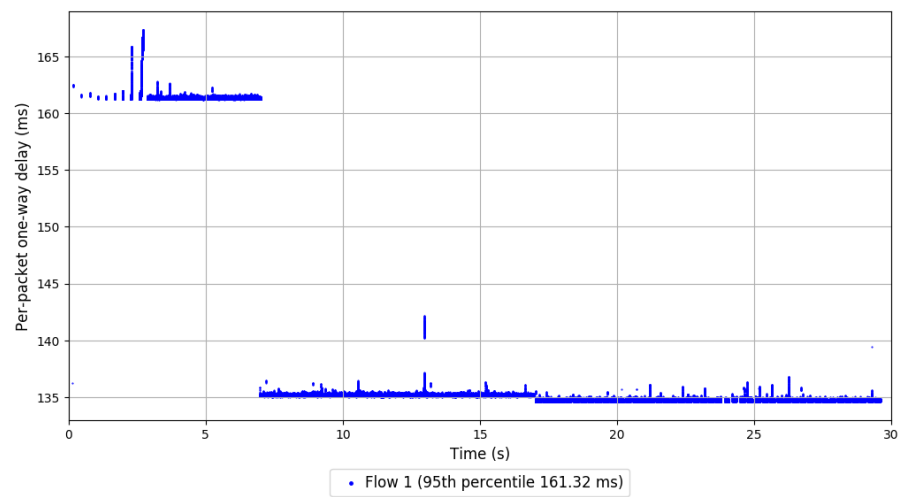
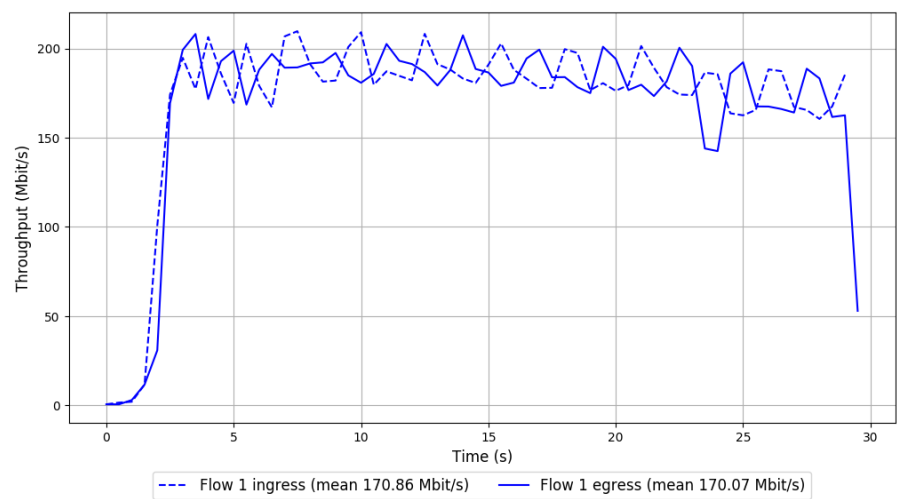
-- Flow 1:

Average throughput: 170.07 Mbit/s

95th percentile per-packet one-way delay: 161.322 ms

Loss rate: 0.47%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-13 15:02:52

End at: 2018-02-13 15:03:22

Below is generated by plot.py at 2018-02-13 18:24:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.29 Mbit/s

95th percentile per-packet one-way delay: 136.164 ms

Loss rate: 0.45%

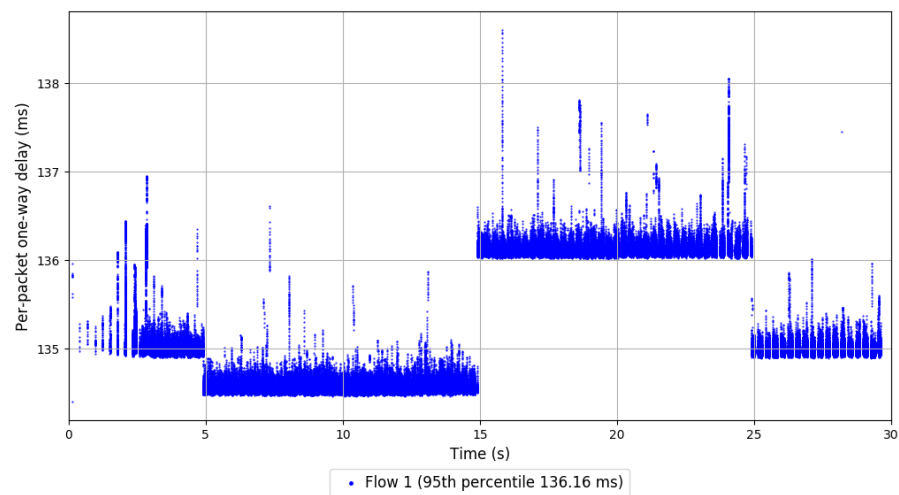
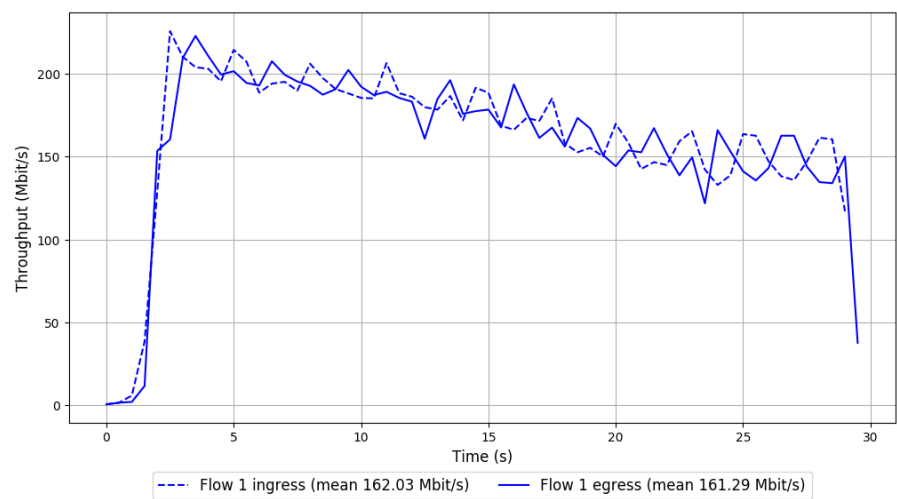
-- Flow 1:

Average throughput: 161.29 Mbit/s

95th percentile per-packet one-way delay: 136.164 ms

Loss rate: 0.45%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-13 15:19:19

End at: 2018-02-13 15:19:49

Below is generated by plot.py at 2018-02-13 18:24:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 162.84 Mbit/s

95th percentile per-packet one-way delay: 136.077 ms

Loss rate: 0.21%

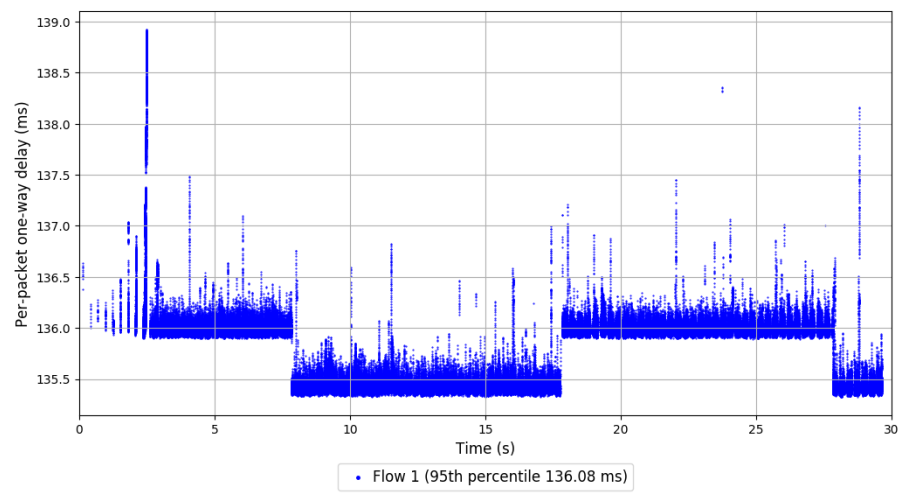
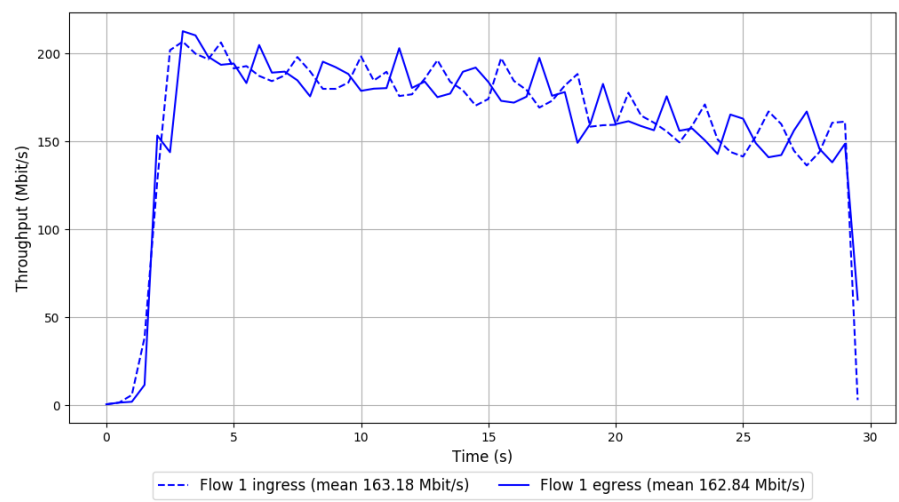
-- Flow 1:

Average throughput: 162.84 Mbit/s

95th percentile per-packet one-way delay: 136.077 ms

Loss rate: 0.21%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-13 15:35:34

End at: 2018-02-13 15:36:04

Below is generated by plot.py at 2018-02-13 18:24:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.40 Mbit/s

95th percentile per-packet one-way delay: 136.071 ms

Loss rate: 0.10%

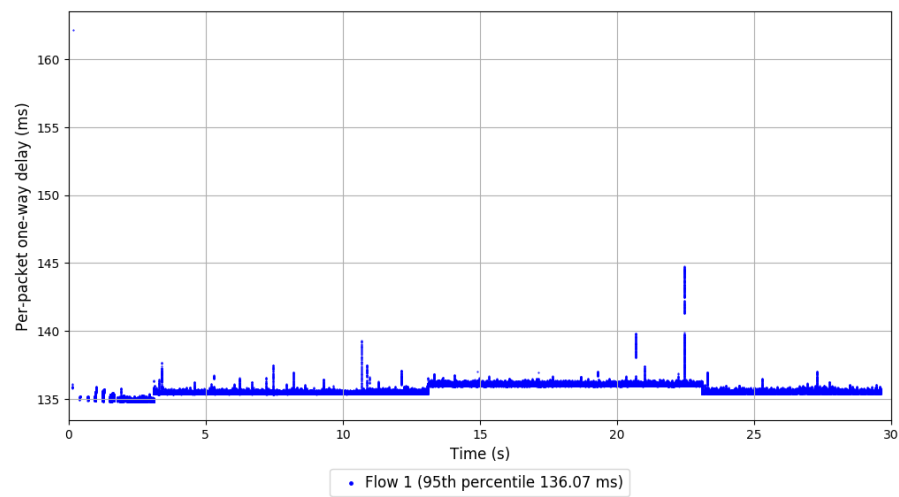
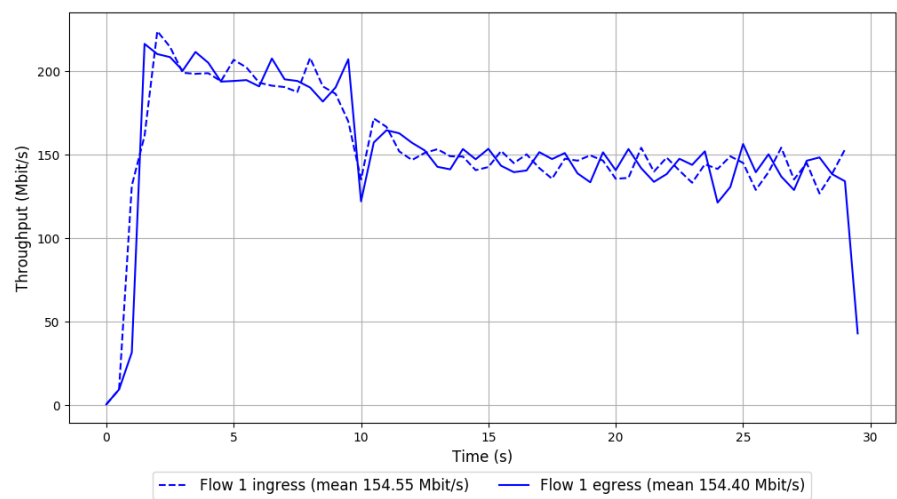
-- Flow 1:

Average throughput: 154.40 Mbit/s

95th percentile per-packet one-way delay: 136.071 ms

Loss rate: 0.10%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-13 15:51:27

End at: 2018-02-13 15:51:57

Below is generated by plot.py at 2018-02-13 18:24:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.12 Mbit/s

95th percentile per-packet one-way delay: 136.022 ms

Loss rate: 0.33%

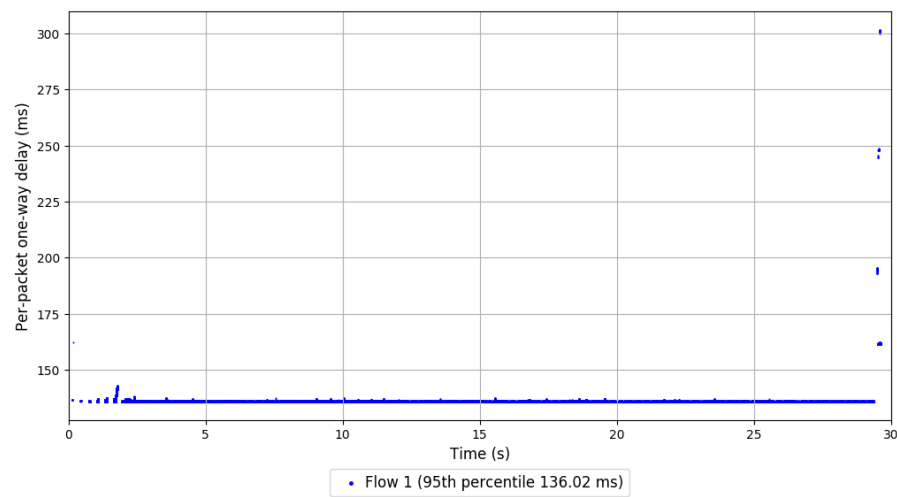
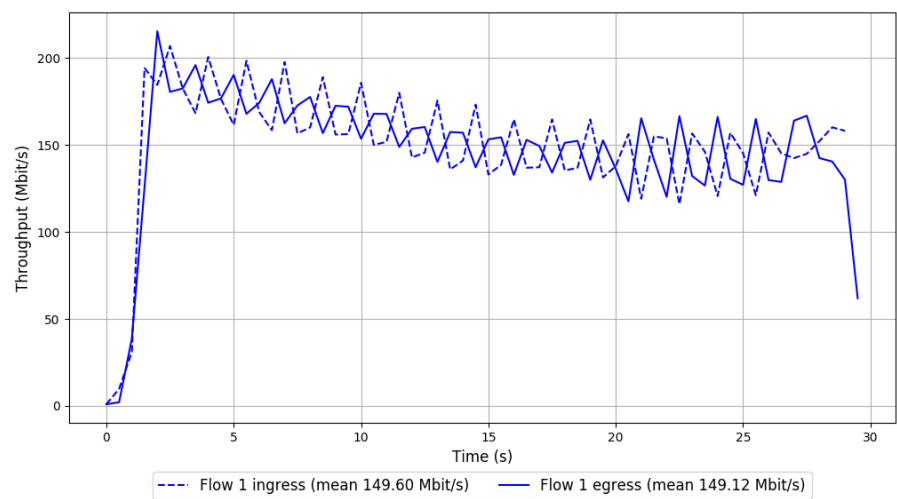
-- Flow 1:

Average throughput: 149.12 Mbit/s

95th percentile per-packet one-way delay: 136.022 ms

Loss rate: 0.33%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-13 16:07:16

End at: 2018-02-13 16:07:46

Below is generated by plot.py at 2018-02-13 18:24:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.07 Mbit/s

95th percentile per-packet one-way delay: 161.648 ms

Loss rate: 0.40%

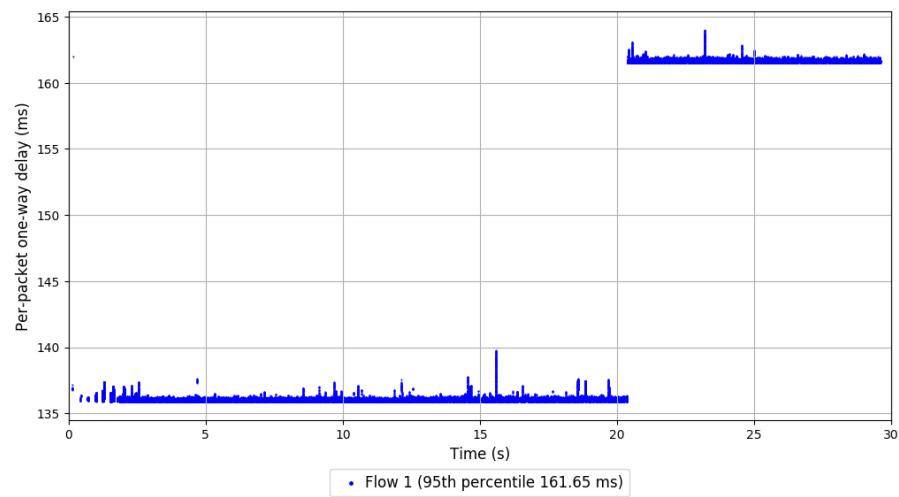
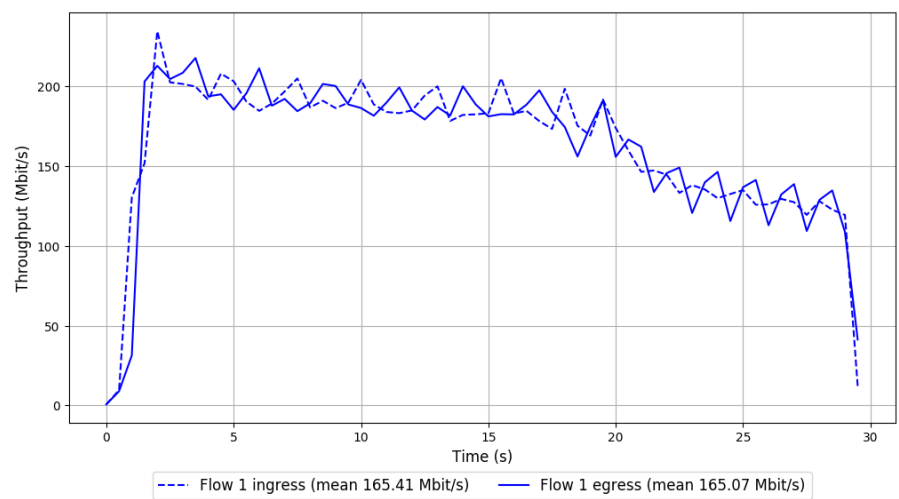
-- Flow 1:

Average throughput: 165.07 Mbit/s

95th percentile per-packet one-way delay: 161.648 ms

Loss rate: 0.40%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-13 16:23:03

End at: 2018-02-13 16:23:33

Below is generated by plot.py at 2018-02-13 18:24:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 156.26 Mbit/s

95th percentile per-packet one-way delay: 136.926 ms

Loss rate: 0.43%

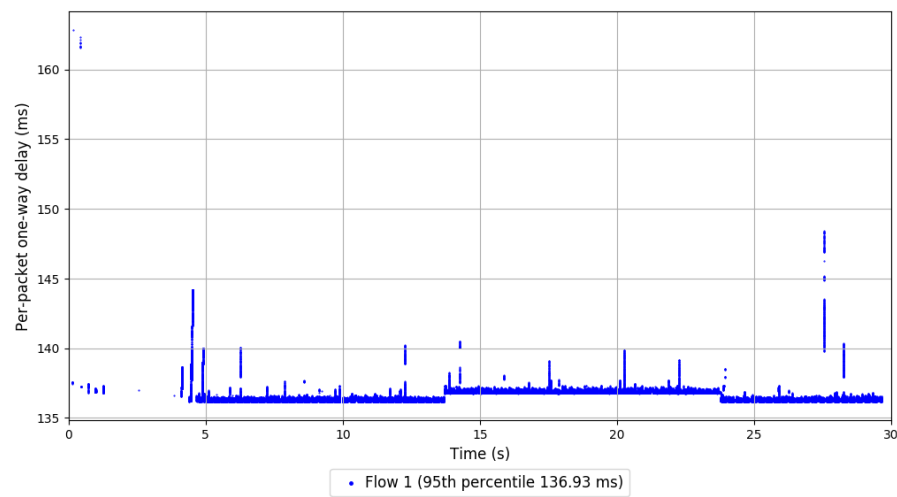
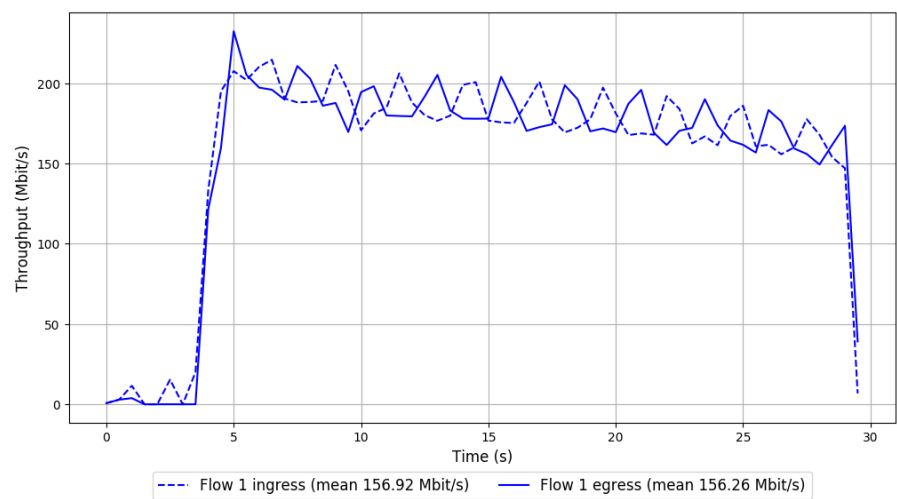
-- Flow 1:

Average throughput: 156.26 Mbit/s

95th percentile per-packet one-way delay: 136.926 ms

Loss rate: 0.43%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-02-13 13:54:57

End at: 2018-02-13 13:55:27

Below is generated by plot.py at 2018-02-13 18:24:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 341.11 Mbit/s

95th percentile per-packet one-way delay: 162.064 ms

Loss rate: 0.06%

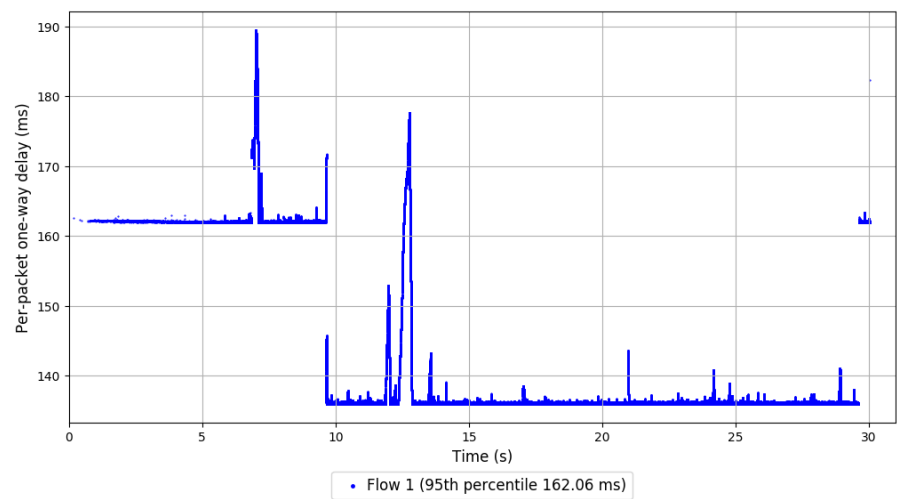
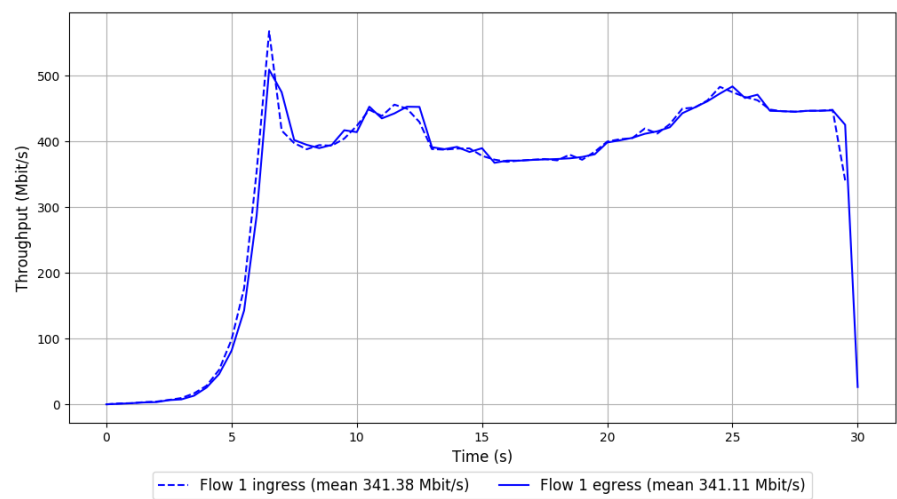
-- Flow 1:

Average throughput: 341.11 Mbit/s

95th percentile per-packet one-way delay: 162.064 ms

Loss rate: 0.06%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-13 14:10:50

End at: 2018-02-13 14:11:20

Below is generated by plot.py at 2018-02-13 18:24:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 272.88 Mbit/s

95th percentile per-packet one-way delay: 165.635 ms

Loss rate: 0.05%

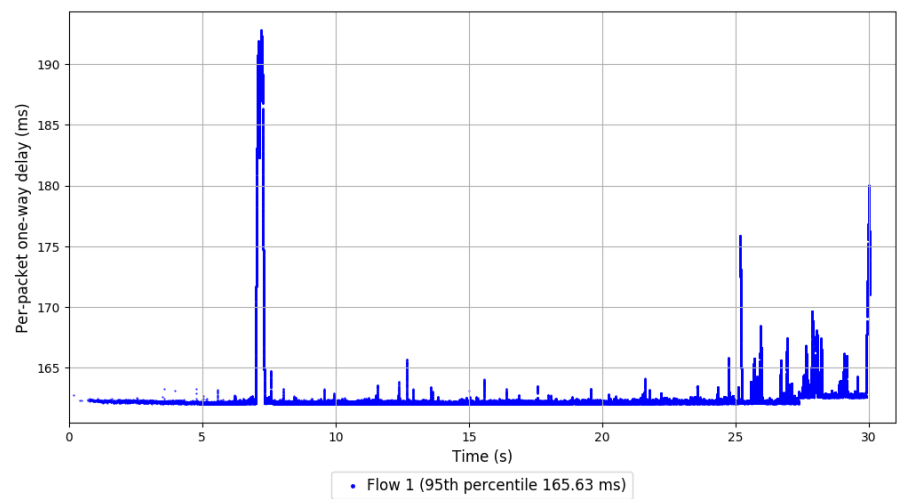
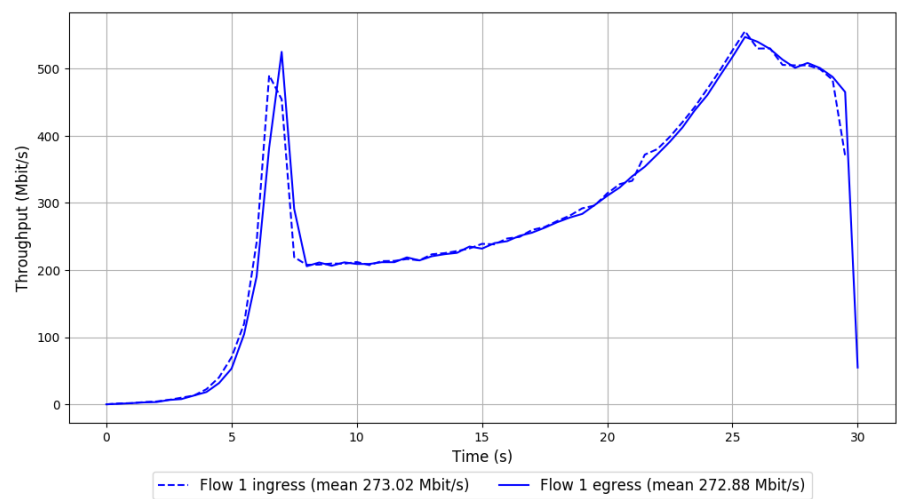
-- Flow 1:

Average throughput: 272.88 Mbit/s

95th percentile per-packet one-way delay: 165.635 ms

Loss rate: 0.05%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-13 14:27:02

End at: 2018-02-13 14:27:32

Below is generated by plot.py at 2018-02-13 18:24:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 142.20 Mbit/s

95th percentile per-packet one-way delay: 262.385 ms

Loss rate: 2.58%

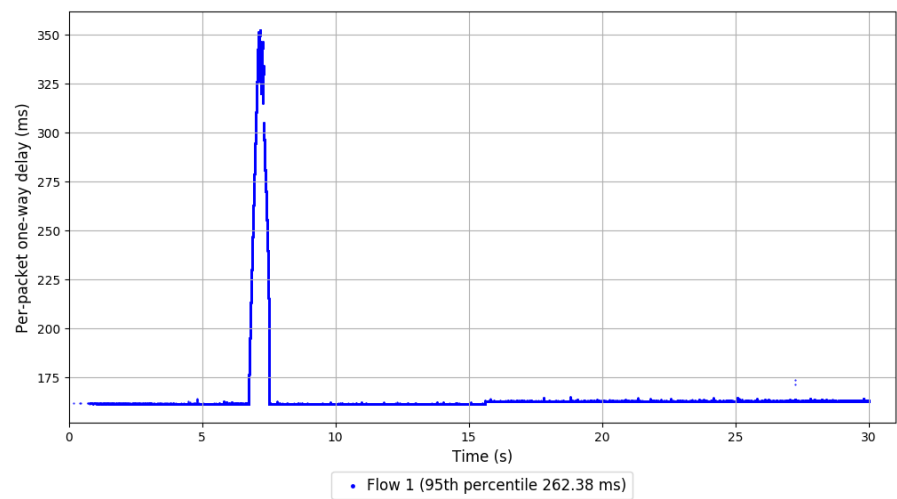
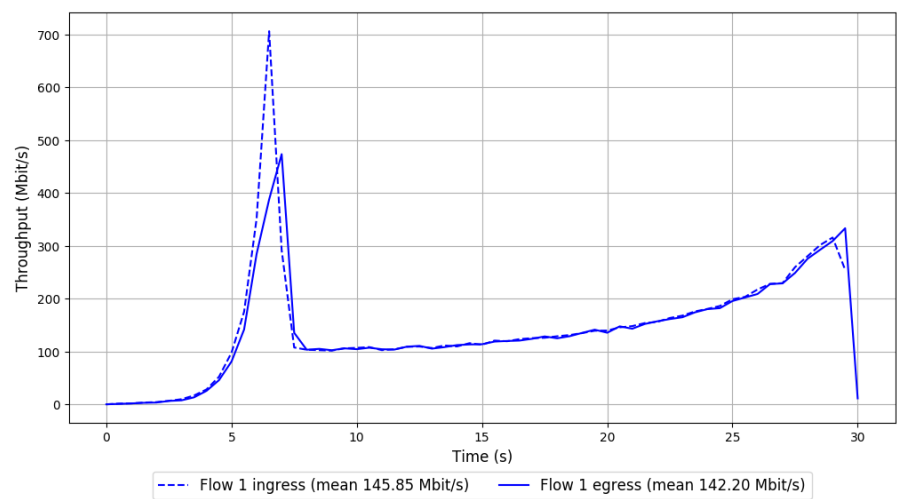
-- Flow 1:

Average throughput: 142.20 Mbit/s

95th percentile per-packet one-way delay: 262.385 ms

Loss rate: 2.58%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-13 14:42:48

End at: 2018-02-13 14:43:18

Below is generated by plot.py at 2018-02-13 18:24:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.65 Mbit/s

95th percentile per-packet one-way delay: 164.018 ms

Loss rate: 0.00%

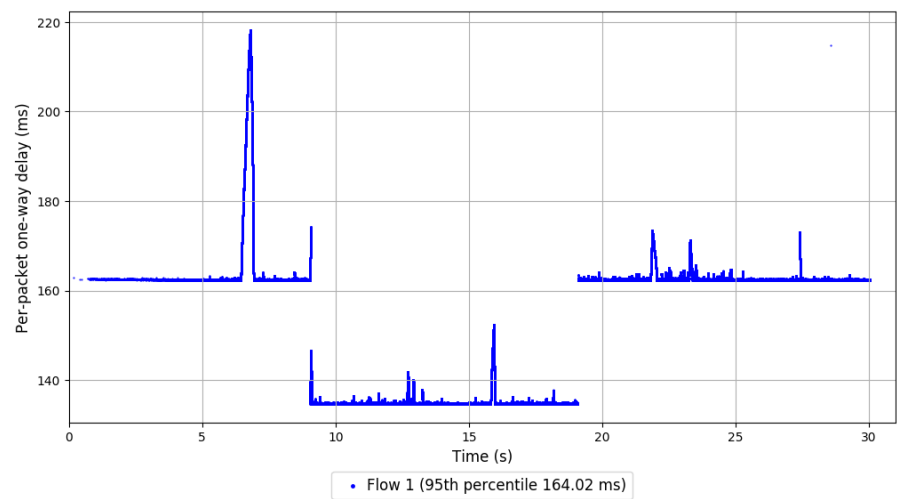
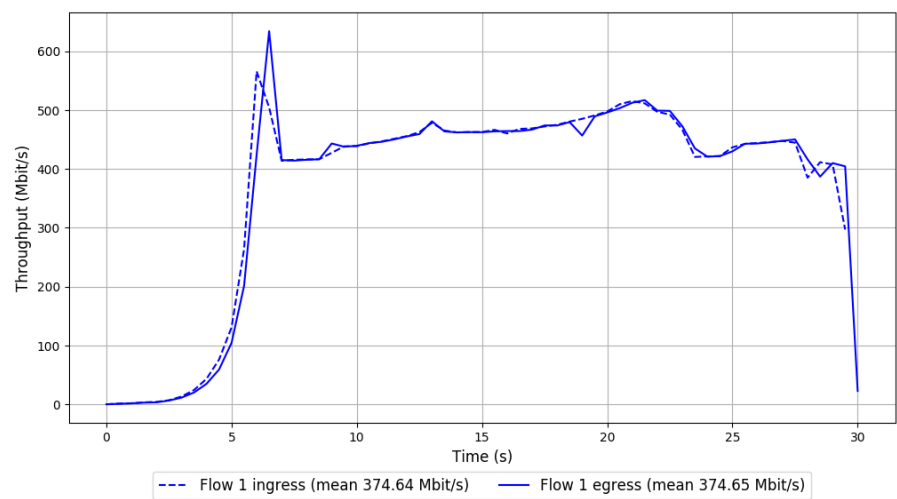
-- Flow 1:

Average throughput: 374.65 Mbit/s

95th percentile per-packet one-way delay: 164.018 ms

Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-13 14:58:40

End at: 2018-02-13 14:59:10

Below is generated by plot.py at 2018-02-13 18:24:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 335.70 Mbit/s

95th percentile per-packet one-way delay: 162.146 ms

Loss rate: 0.17%

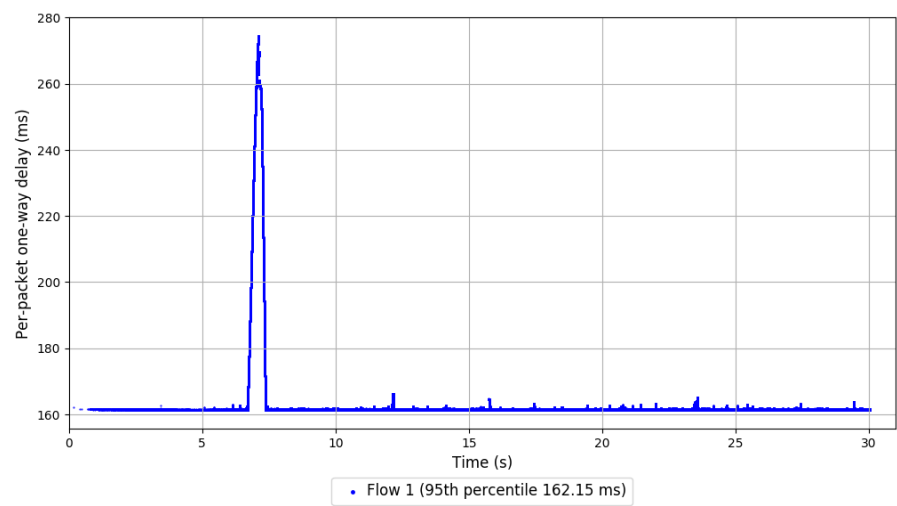
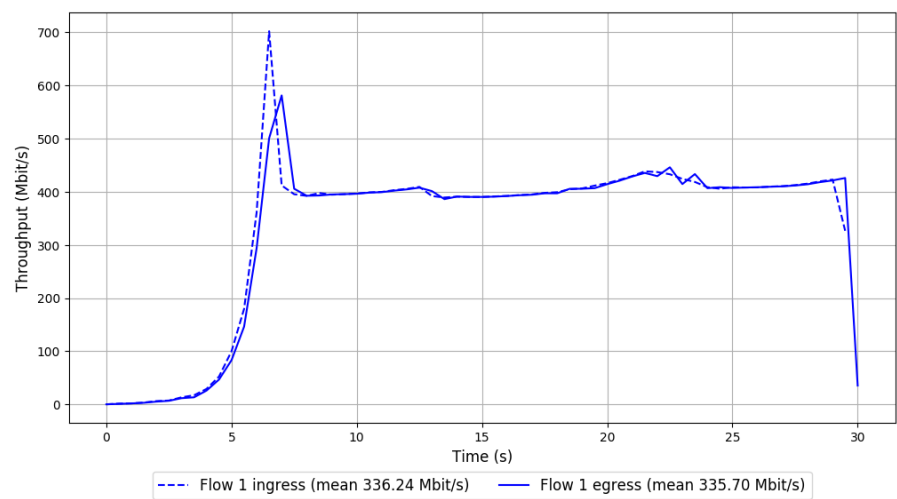
-- Flow 1:

Average throughput: 335.70 Mbit/s

95th percentile per-packet one-way delay: 162.146 ms

Loss rate: 0.17%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-13 15:15:07

End at: 2018-02-13 15:15:37

Below is generated by plot.py at 2018-02-13 18:24:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 334.03 Mbit/s

95th percentile per-packet one-way delay: 166.935 ms

Loss rate: 0.41%

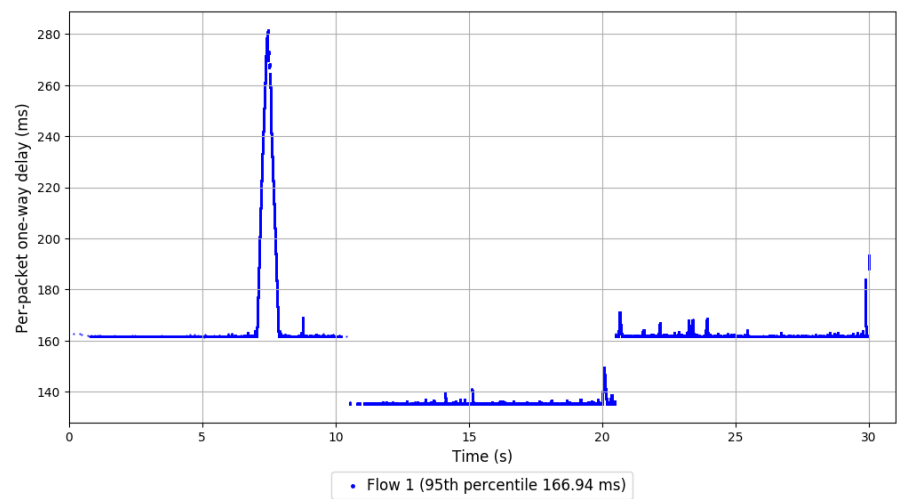
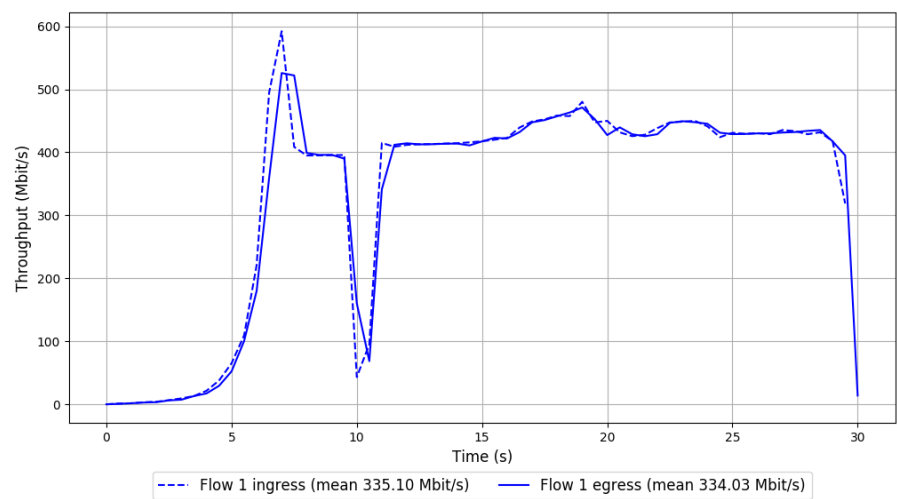
-- Flow 1:

Average throughput: 334.03 Mbit/s

95th percentile per-packet one-way delay: 166.935 ms

Loss rate: 0.41%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-13 15:31:21

End at: 2018-02-13 15:31:51

Below is generated by plot.py at 2018-02-13 18:24:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 388.10 Mbit/s

95th percentile per-packet one-way delay: 142.382 ms

Loss rate: 0.00%

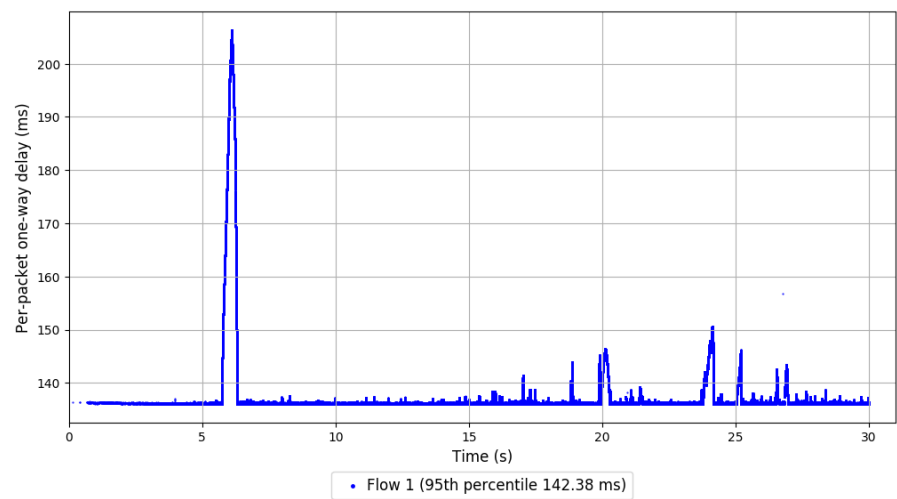
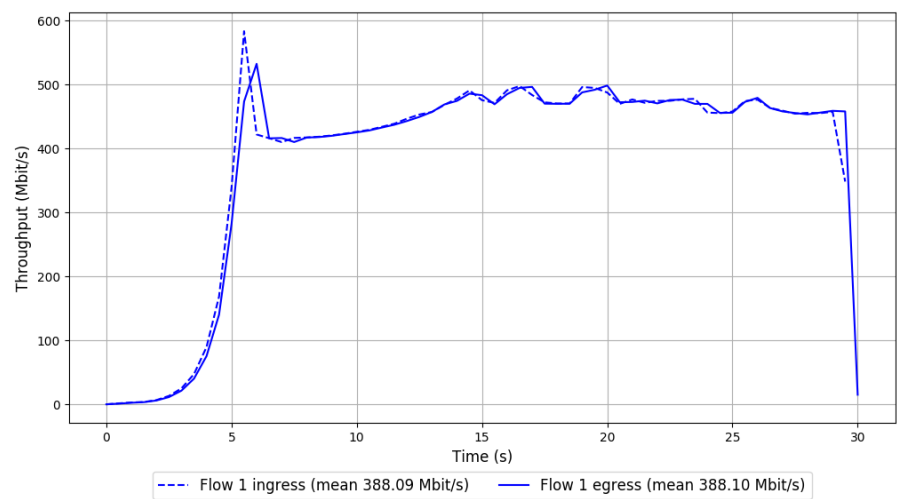
-- Flow 1:

Average throughput: 388.10 Mbit/s

95th percentile per-packet one-way delay: 142.382 ms

Loss rate: 0.00%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-13 15:47:22

End at: 2018-02-13 15:47:52

Below is generated by plot.py at 2018-02-13 18:24:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 353.80 Mbit/s

95th percentile per-packet one-way delay: 164.026 ms

Loss rate: 0.33%

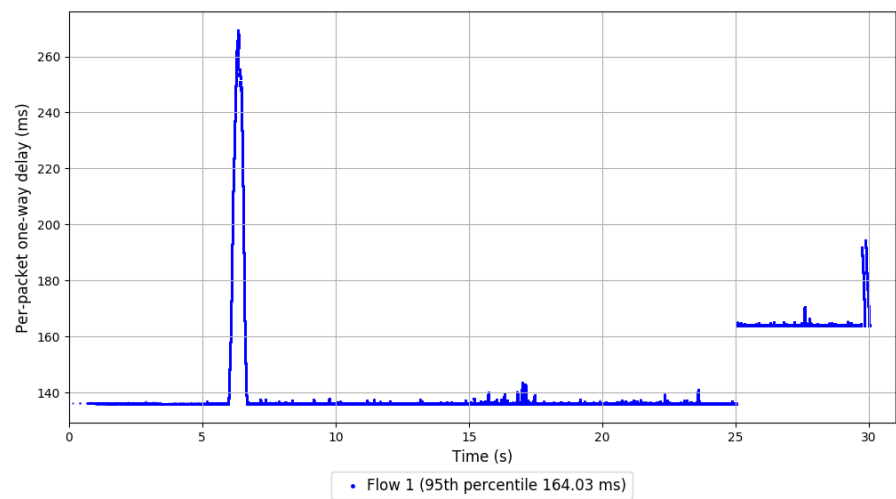
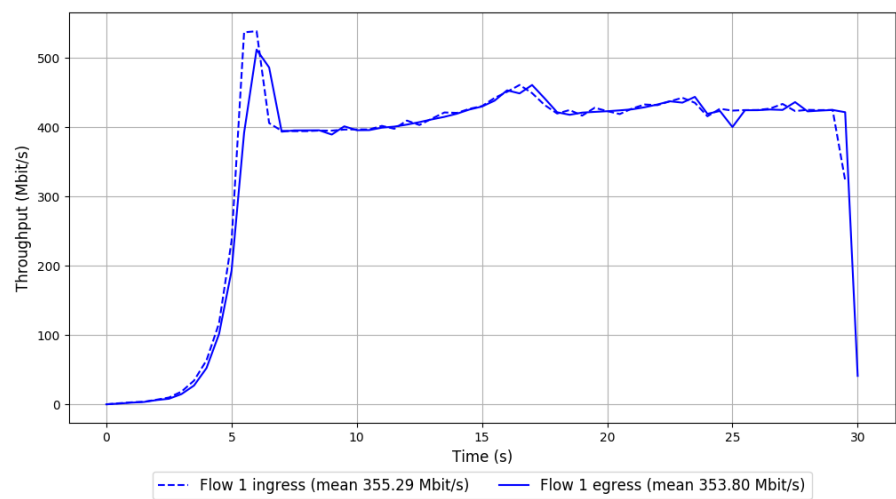
-- Flow 1:

Average throughput: 353.80 Mbit/s

95th percentile per-packet one-way delay: 164.026 ms

Loss rate: 0.33%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-13 16:03:31

End at: 2018-02-13 16:04:01

Below is generated by plot.py at 2018-02-13 18:24:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 336.91 Mbit/s

95th percentile per-packet one-way delay: 161.911 ms

Loss rate: 0.62%

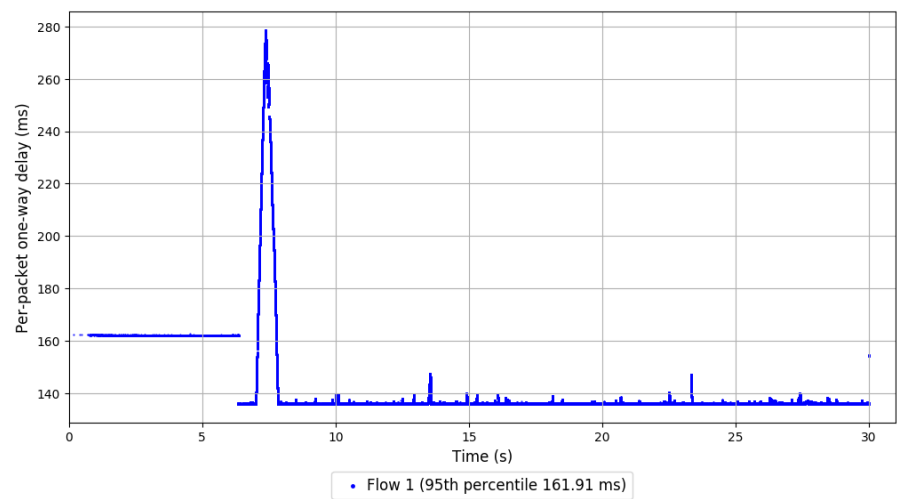
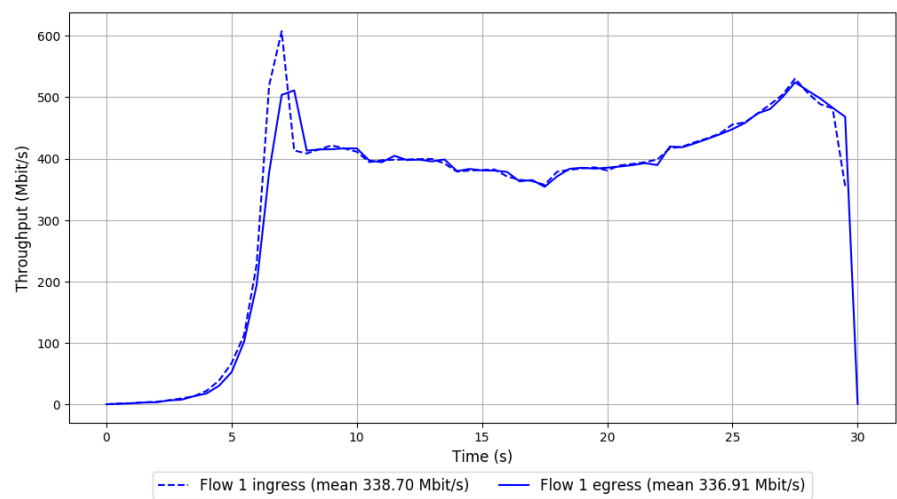
-- Flow 1:

Average throughput: 336.91 Mbit/s

95th percentile per-packet one-way delay: 161.911 ms

Loss rate: 0.62%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-13 16:19:02

End at: 2018-02-13 16:19:32

Below is generated by plot.py at 2018-02-13 18:24:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 311.00 Mbit/s

95th percentile per-packet one-way delay: 139.373 ms

Loss rate: 0.27%

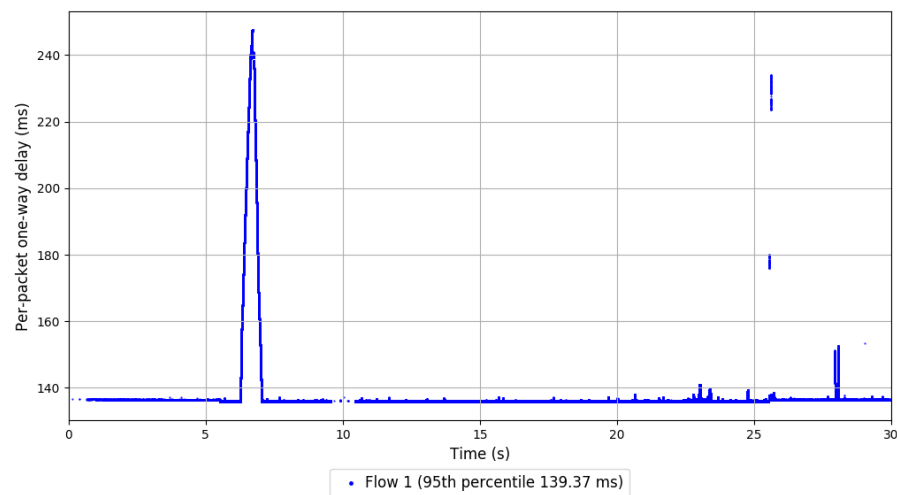
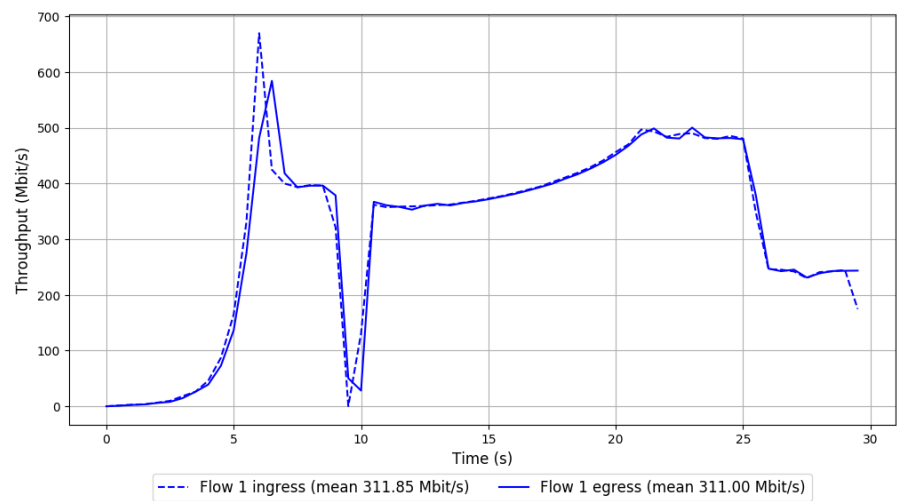
-- Flow 1:

Average throughput: 311.00 Mbit/s

95th percentile per-packet one-way delay: 139.373 ms

Loss rate: 0.27%

Run 10: Report of Vivace-latency — Data Link

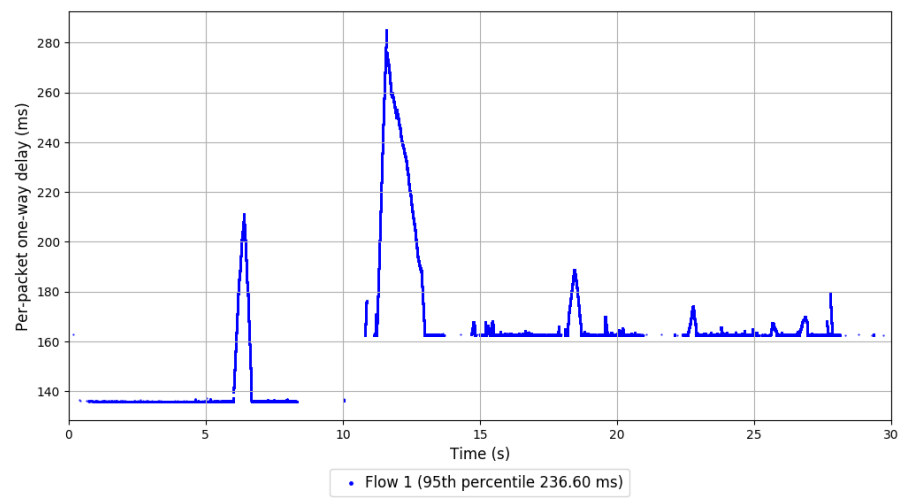
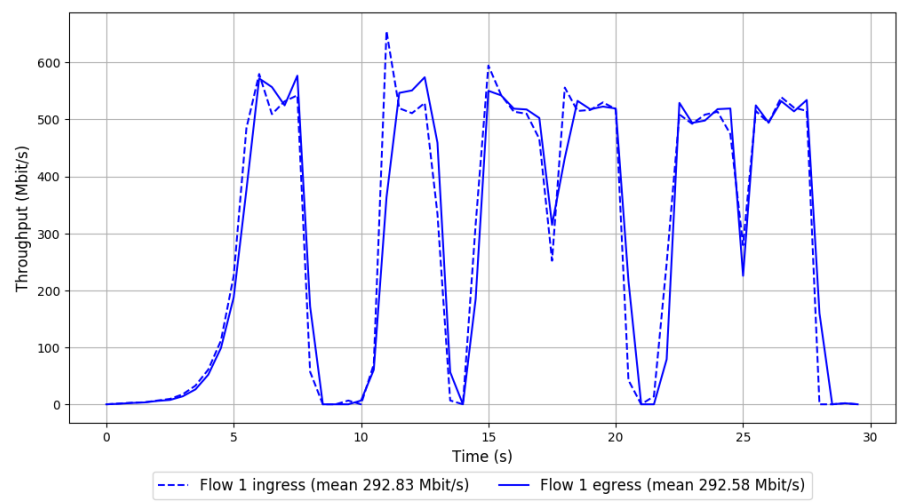


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-13 13:56:07
End at: 2018-02-13 13:56:37

# Below is generated by plot.py at 2018-02-13 18:24:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 292.58 Mbit/s
95th percentile per-packet one-way delay: 236.598 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 292.58 Mbit/s
95th percentile per-packet one-way delay: 236.598 ms
Loss rate: 0.08%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-13 14:11:55

End at: 2018-02-13 14:12:25

Below is generated by plot.py at 2018-02-13 18:25:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 328.94 Mbit/s

95th percentile per-packet one-way delay: 241.114 ms

Loss rate: 0.19%

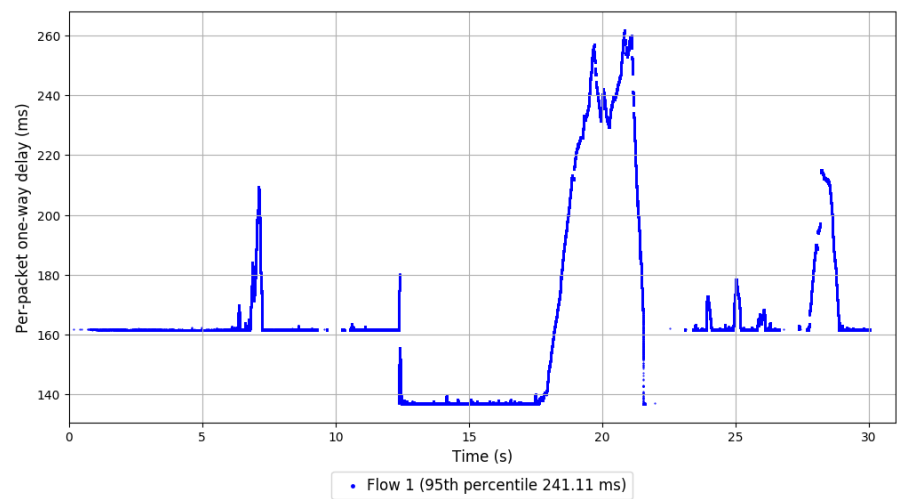
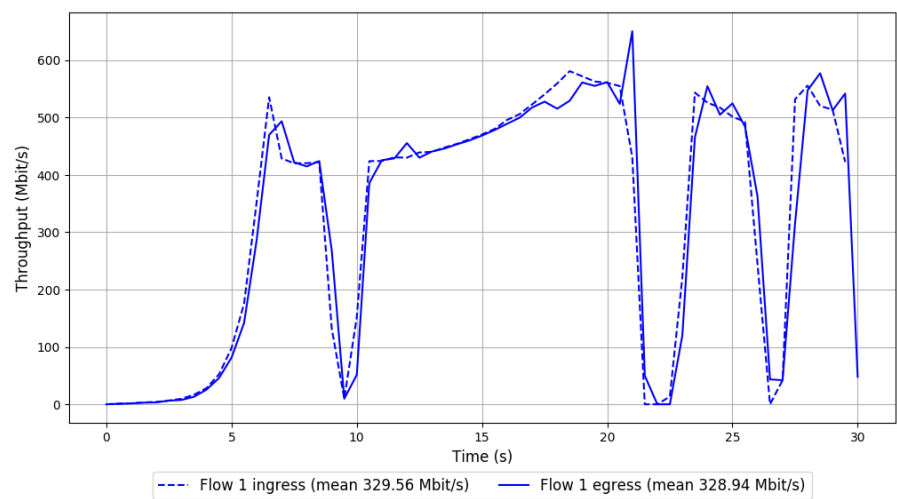
-- Flow 1:

Average throughput: 328.94 Mbit/s

95th percentile per-packet one-way delay: 241.114 ms

Loss rate: 0.19%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-13 14:27:56

End at: 2018-02-13 14:28:26

Below is generated by plot.py at 2018-02-13 18:28:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 338.39 Mbit/s

95th percentile per-packet one-way delay: 138.332 ms

Loss rate: 0.00%

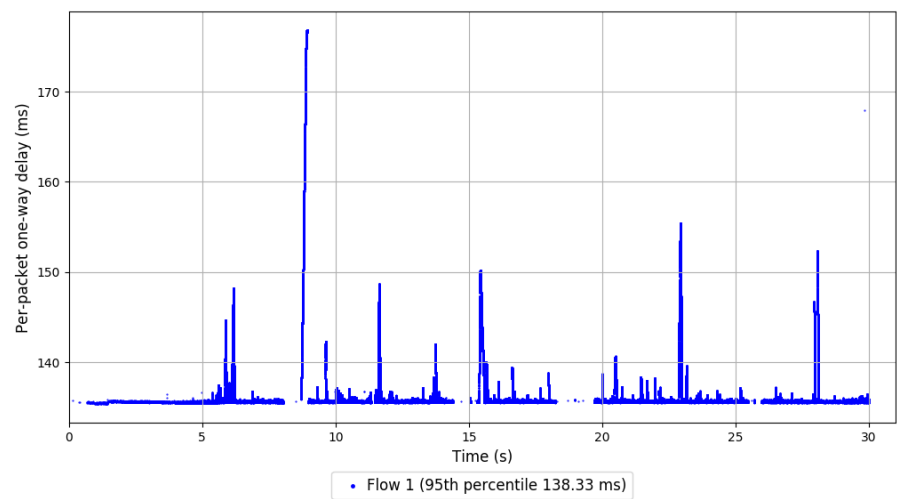
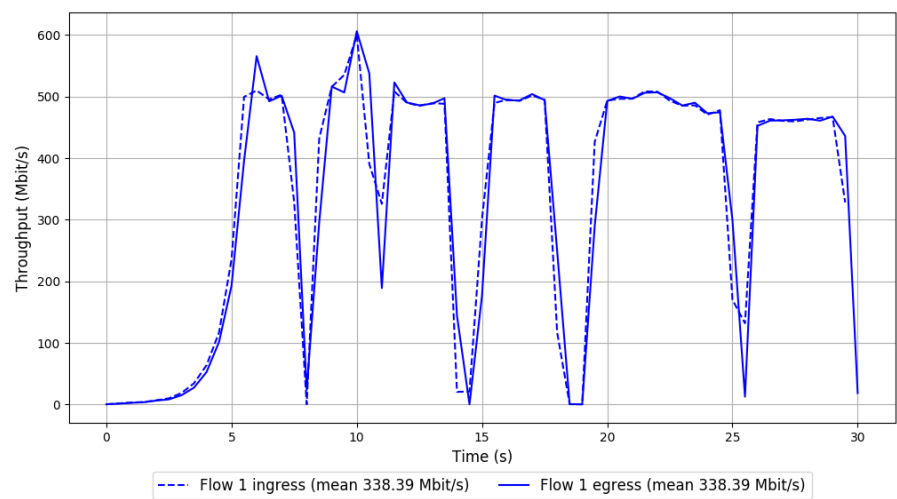
-- Flow 1:

Average throughput: 338.39 Mbit/s

95th percentile per-packet one-way delay: 138.332 ms

Loss rate: 0.00%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-13 14:44:00

End at: 2018-02-13 14:44:30

Below is generated by plot.py at 2018-02-13 18:28:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 327.72 Mbit/s

95th percentile per-packet one-way delay: 214.656 ms

Loss rate: 0.33%

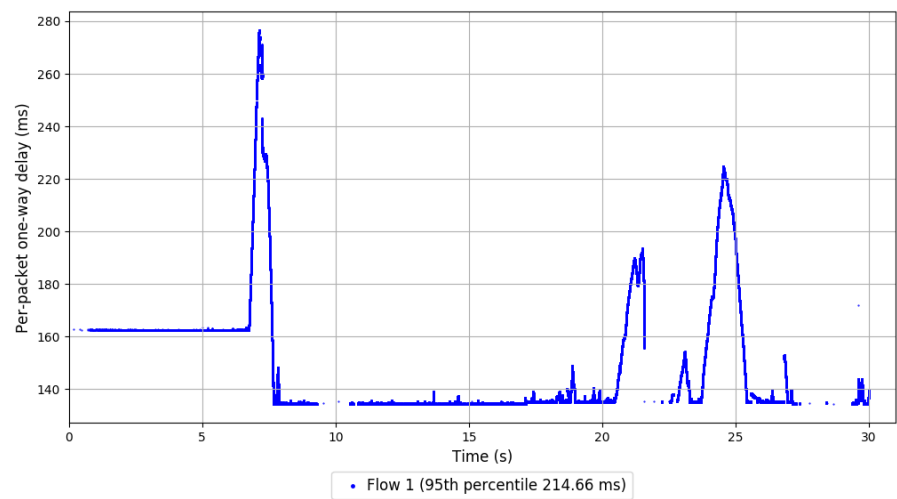
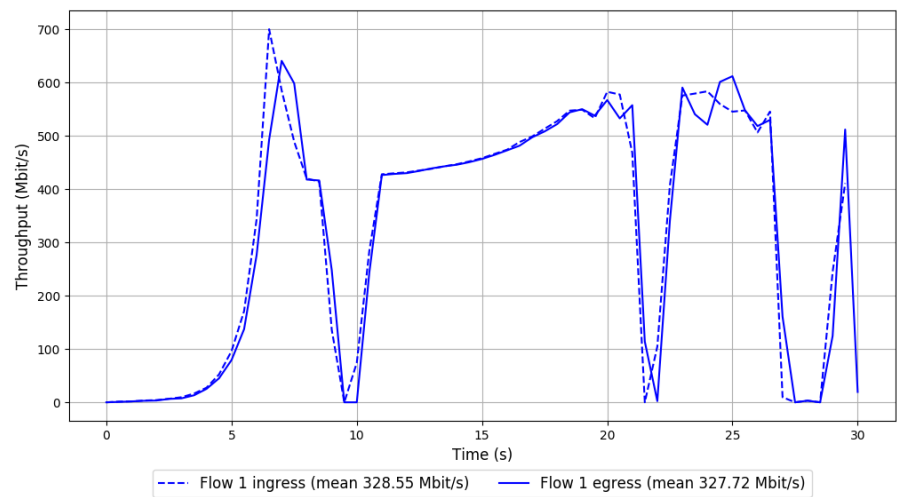
-- Flow 1:

Average throughput: 327.72 Mbit/s

95th percentile per-packet one-way delay: 214.656 ms

Loss rate: 0.33%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-13 14:59:49

End at: 2018-02-13 15:00:19

Below is generated by plot.py at 2018-02-13 18:29:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 336.62 Mbit/s

95th percentile per-packet one-way delay: 149.127 ms

Loss rate: 0.00%

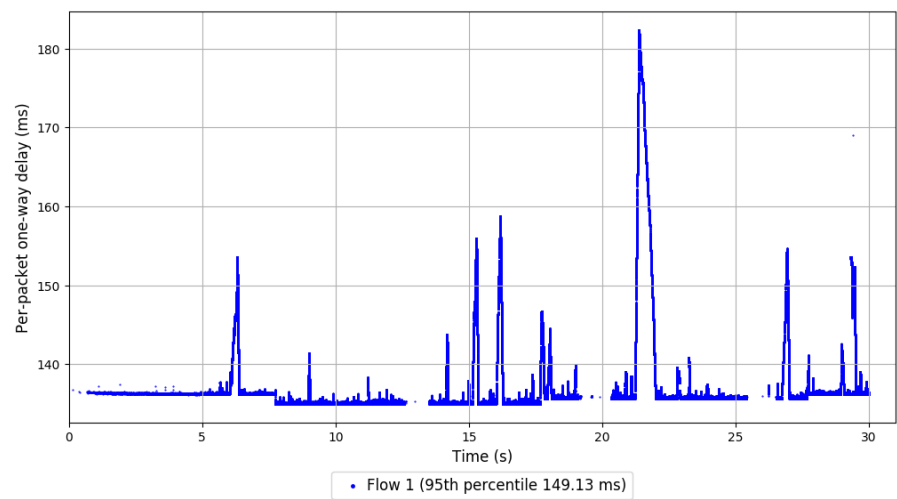
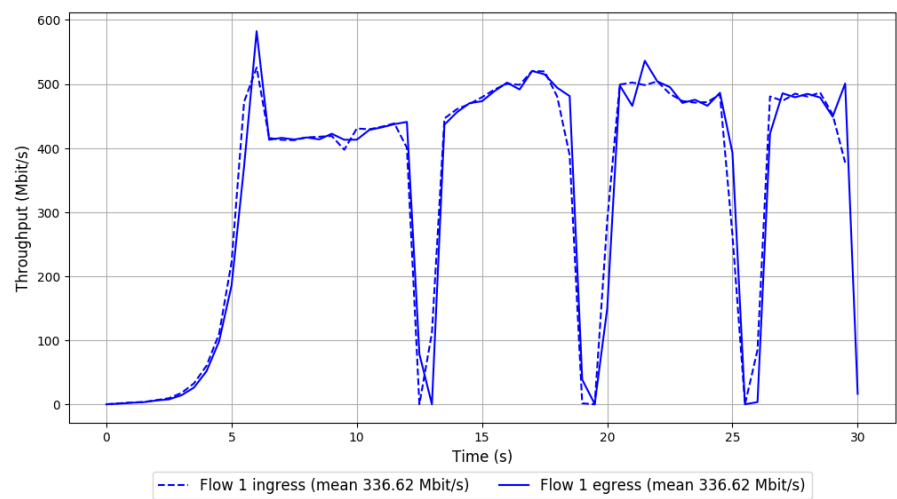
-- Flow 1:

Average throughput: 336.62 Mbit/s

95th percentile per-packet one-way delay: 149.127 ms

Loss rate: 0.00%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-13 15:16:15

End at: 2018-02-13 15:16:45

Below is generated by plot.py at 2018-02-13 18:29:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 360.77 Mbit/s

95th percentile per-packet one-way delay: 218.322 ms

Loss rate: 0.47%

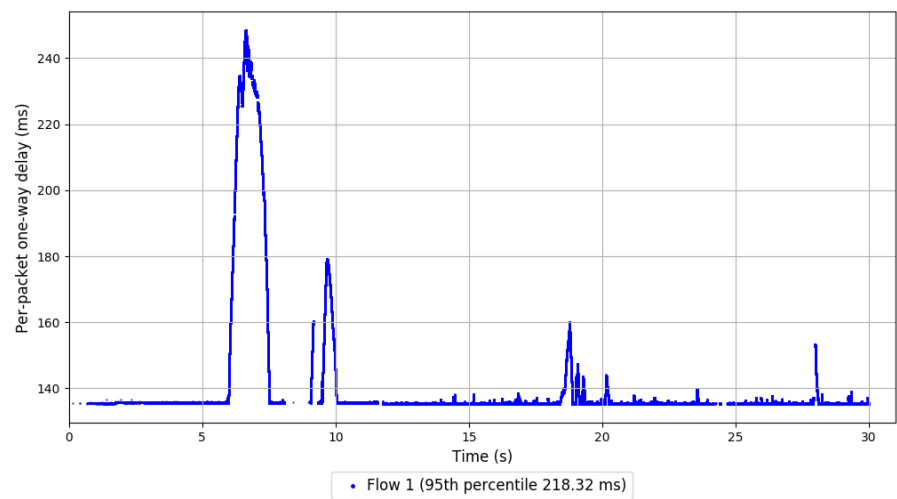
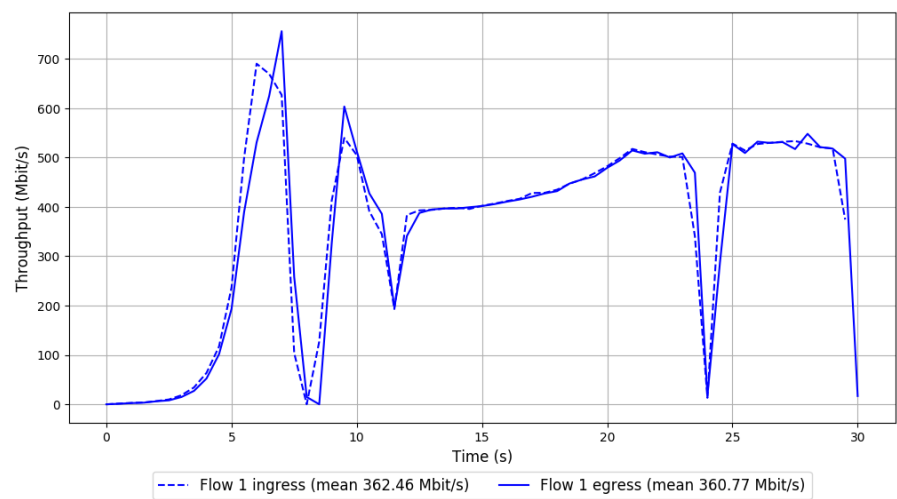
-- Flow 1:

Average throughput: 360.77 Mbit/s

95th percentile per-packet one-way delay: 218.322 ms

Loss rate: 0.47%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-13 15:32:34

End at: 2018-02-13 15:33:04

Below is generated by plot.py at 2018-02-13 18:30:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 351.15 Mbit/s

95th percentile per-packet one-way delay: 161.404 ms

Loss rate: 0.00%

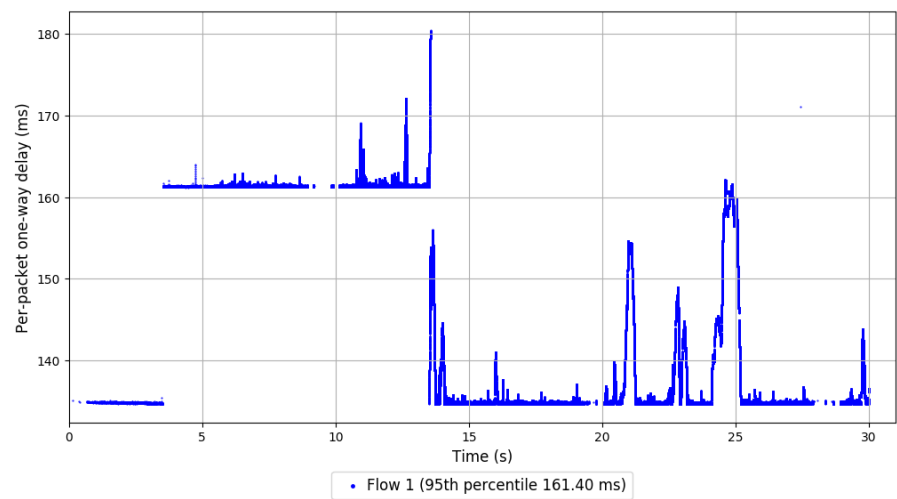
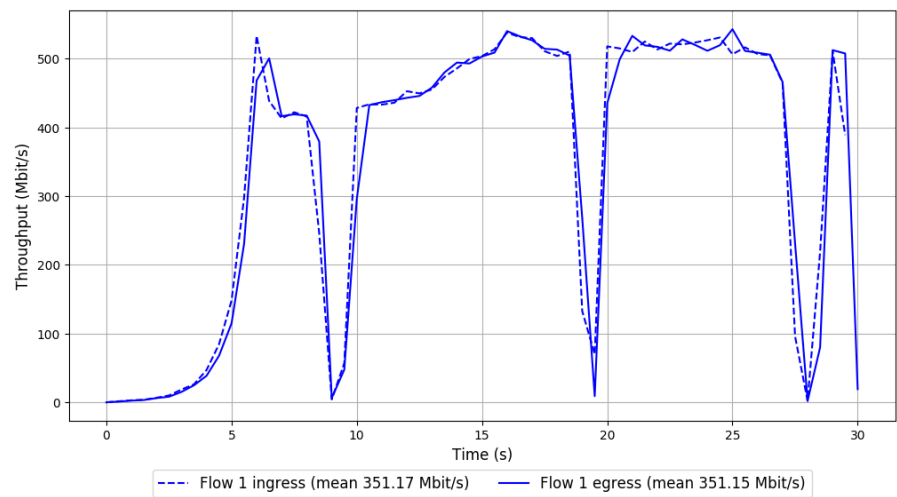
-- Flow 1:

Average throughput: 351.15 Mbit/s

95th percentile per-packet one-way delay: 161.404 ms

Loss rate: 0.00%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-13 15:48:32

End at: 2018-02-13 15:49:02

Below is generated by plot.py at 2018-02-13 18:30:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 252.00 Mbit/s

95th percentile per-packet one-way delay: 155.312 ms

Loss rate: 0.00%

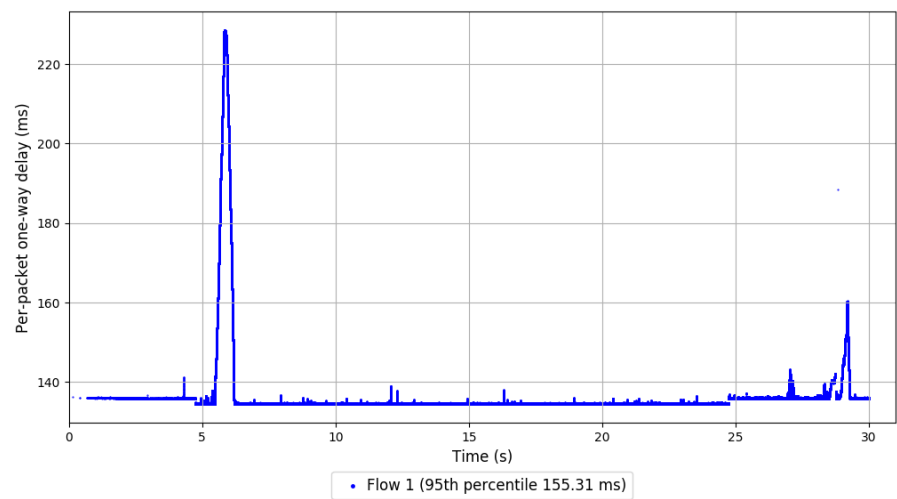
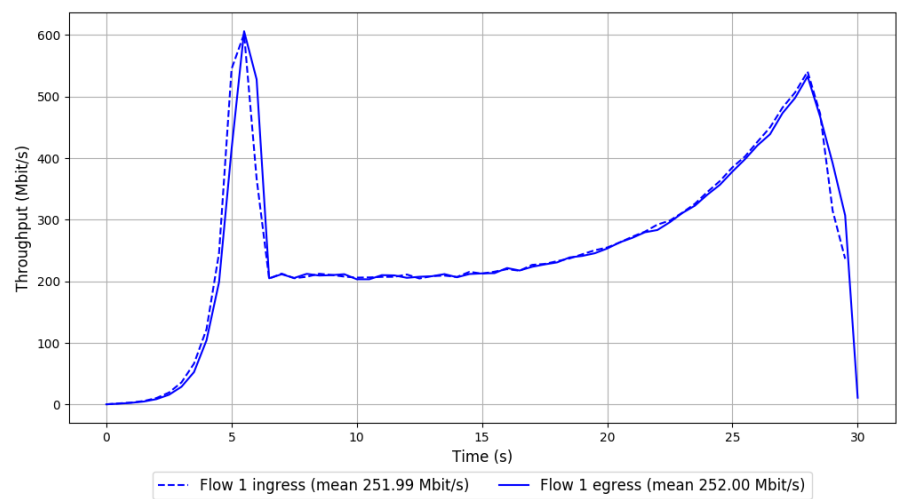
-- Flow 1:

Average throughput: 252.00 Mbit/s

95th percentile per-packet one-way delay: 155.312 ms

Loss rate: 0.00%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-13 16:04:39

End at: 2018-02-13 16:05:09

Below is generated by plot.py at 2018-02-13 18:30:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 334.27 Mbit/s

95th percentile per-packet one-way delay: 193.304 ms

Loss rate: 0.19%

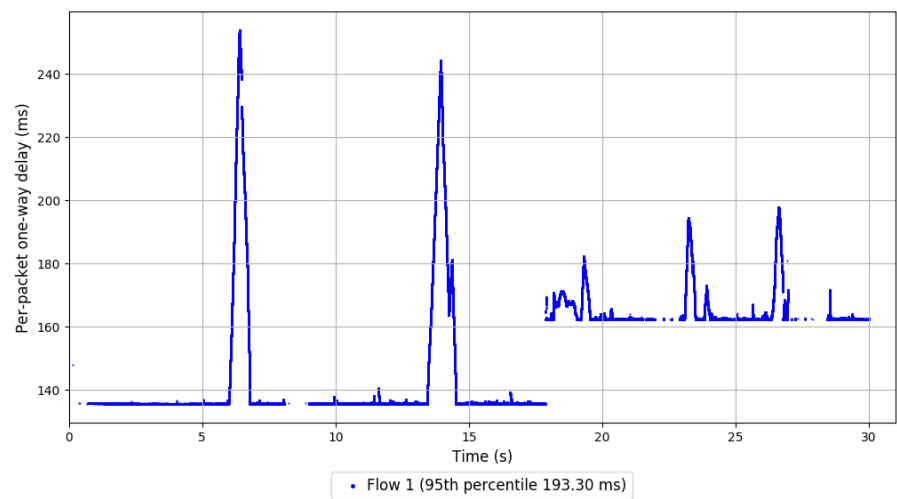
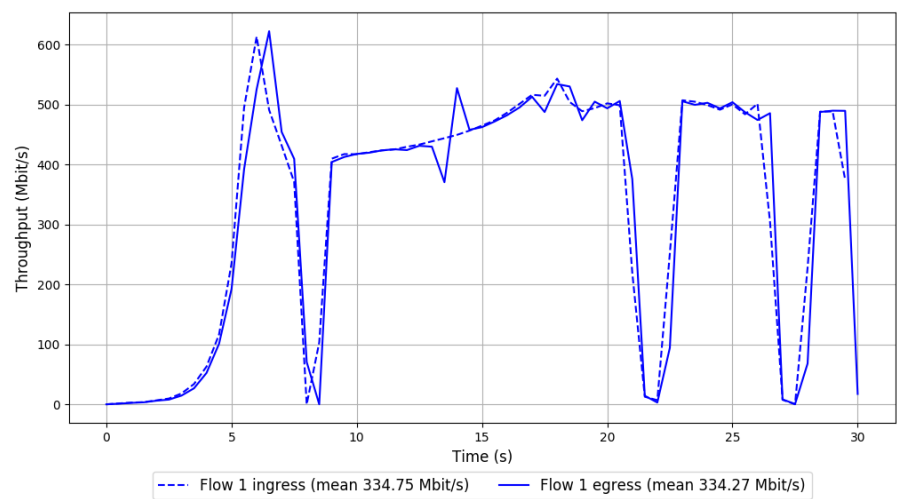
-- Flow 1:

Average throughput: 334.27 Mbit/s

95th percentile per-packet one-way delay: 193.304 ms

Loss rate: 0.19%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-13 16:20:07

End at: 2018-02-13 16:20:38

Below is generated by plot.py at 2018-02-13 18:32:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 350.81 Mbit/s

95th percentile per-packet one-way delay: 162.409 ms

Loss rate: 0.12%

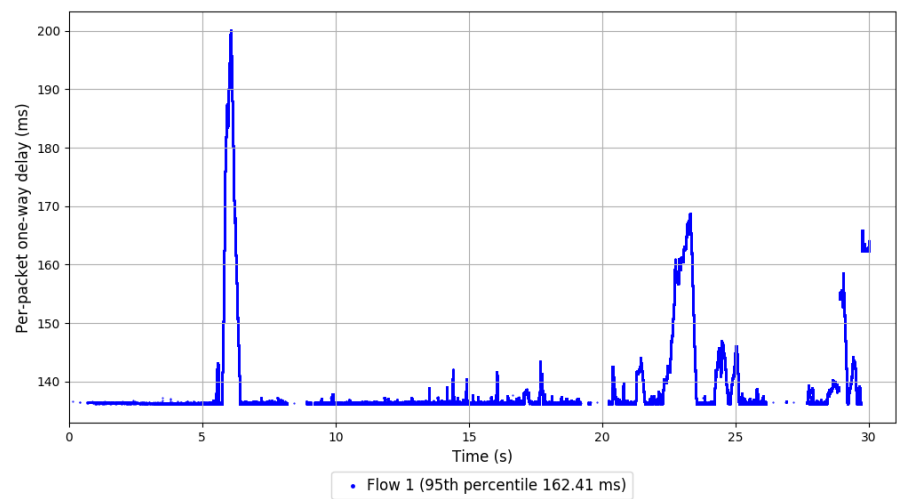
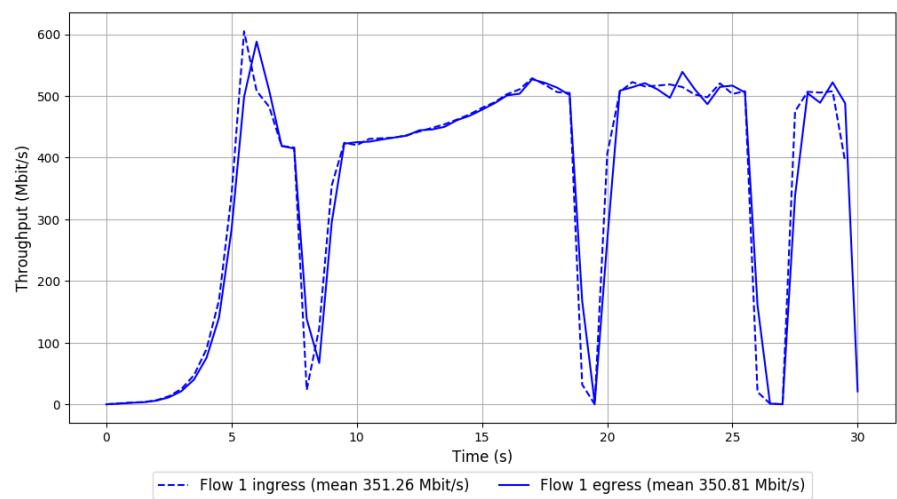
-- Flow 1:

Average throughput: 350.81 Mbit/s

95th percentile per-packet one-way delay: 162.409 ms

Loss rate: 0.12%

Run 10: Report of Vivace-loss — Data Link

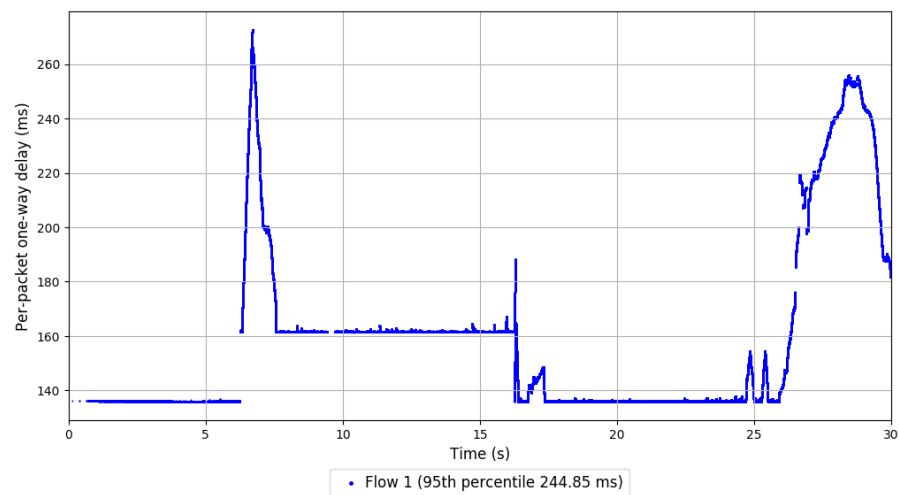
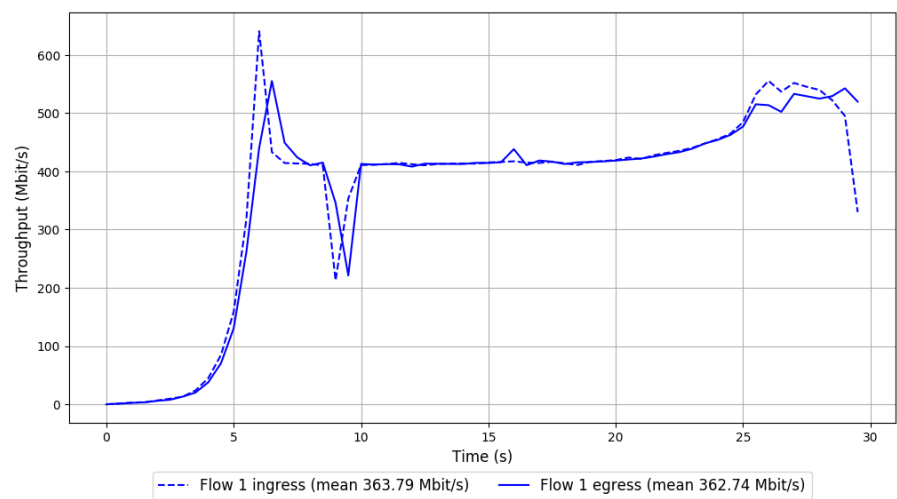


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-13 13:51:31
End at: 2018-02-13 13:52:01

# Below is generated by plot.py at 2018-02-13 18:34:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 362.74 Mbit/s
95th percentile per-packet one-way delay: 244.848 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 362.74 Mbit/s
95th percentile per-packet one-way delay: 244.848 ms
Loss rate: 0.20%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-13 14:07:22

End at: 2018-02-13 14:07:52

Below is generated by plot.py at 2018-02-13 18:34:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.85 Mbit/s

95th percentile per-packet one-way delay: 226.092 ms

Loss rate: 0.14%

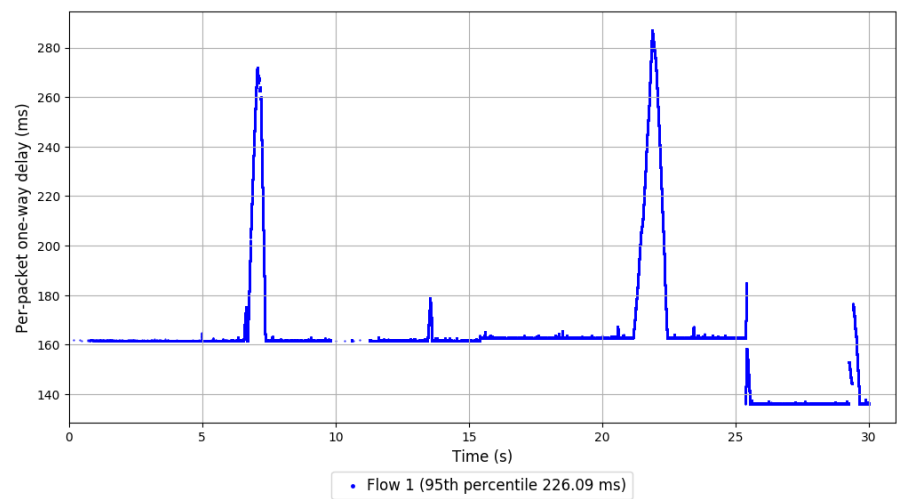
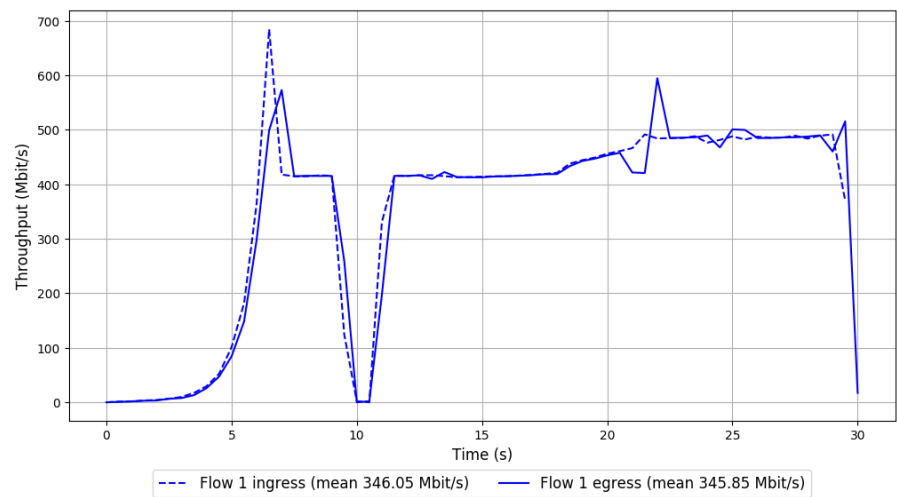
-- Flow 1:

Average throughput: 345.85 Mbit/s

95th percentile per-packet one-way delay: 226.092 ms

Loss rate: 0.14%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-13 14:23:33

End at: 2018-02-13 14:24:03

Below is generated by plot.py at 2018-02-13 18:35:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 387.41 Mbit/s

95th percentile per-packet one-way delay: 186.384 ms

Loss rate: 0.00%

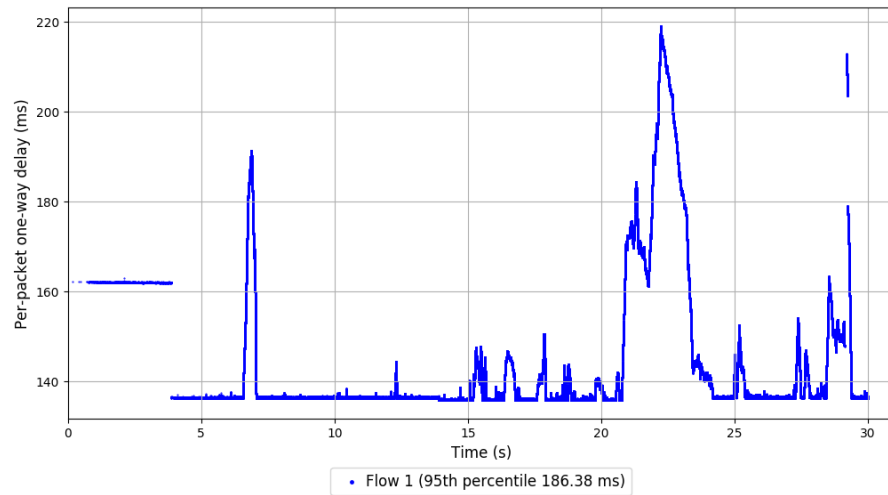
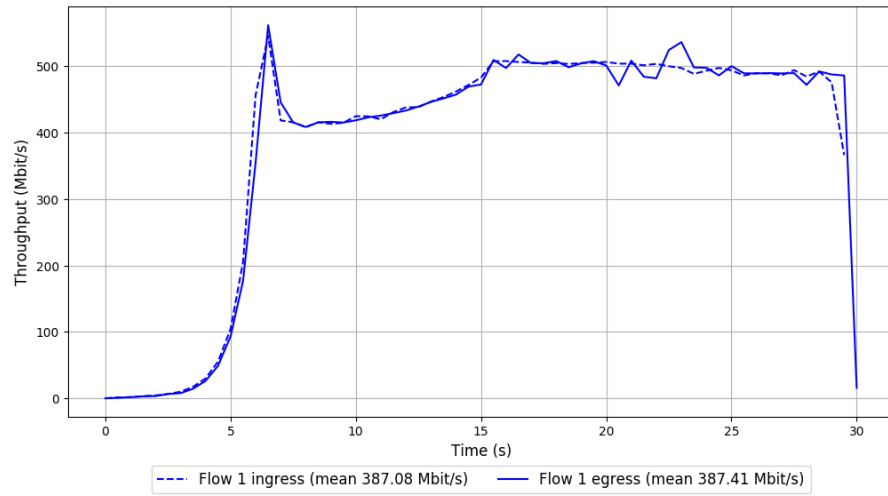
-- Flow 1:

Average throughput: 387.41 Mbit/s

95th percentile per-packet one-way delay: 186.384 ms

Loss rate: 0.00%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-13 14:39:12

End at: 2018-02-13 14:39:42

Below is generated by plot.py at 2018-02-13 18:35:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 360.76 Mbit/s

95th percentile per-packet one-way delay: 162.450 ms

Loss rate: 0.00%

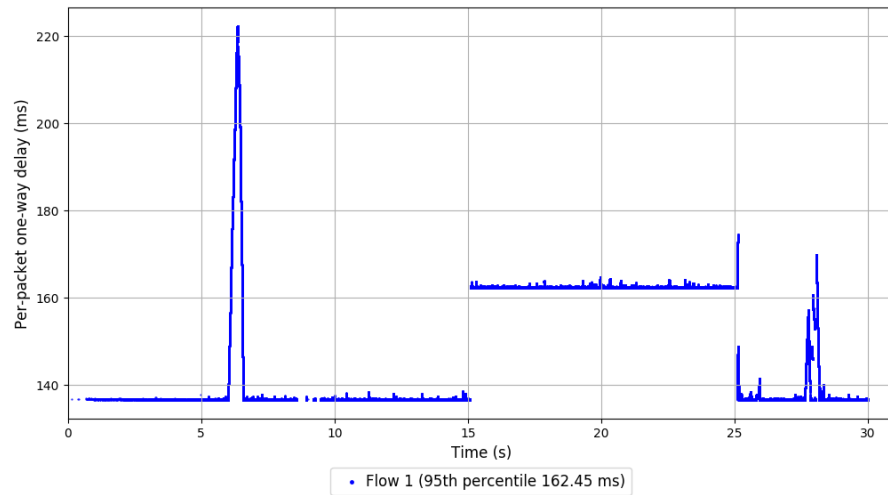
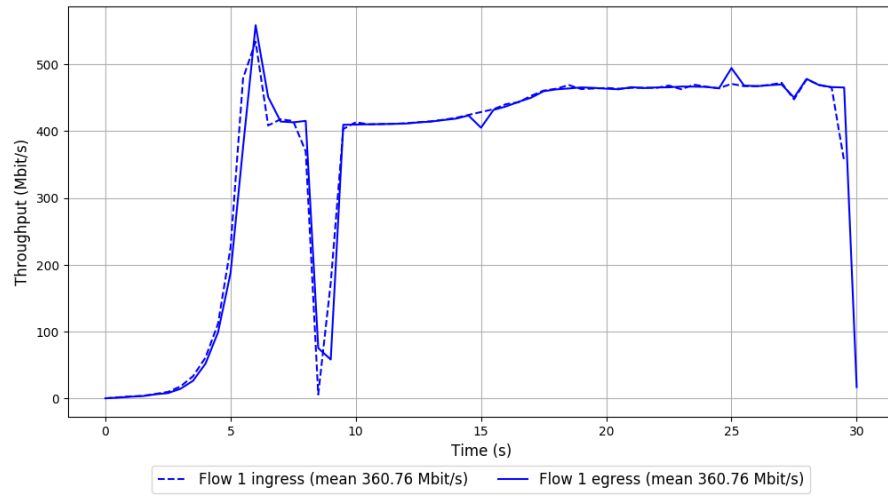
-- Flow 1:

Average throughput: 360.76 Mbit/s

95th percentile per-packet one-way delay: 162.450 ms

Loss rate: 0.00%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-13 14:55:23

End at: 2018-02-13 14:55:53

Below is generated by plot.py at 2018-02-13 18:35:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.16 Mbit/s

95th percentile per-packet one-way delay: 211.637 ms

Loss rate: 3.28%

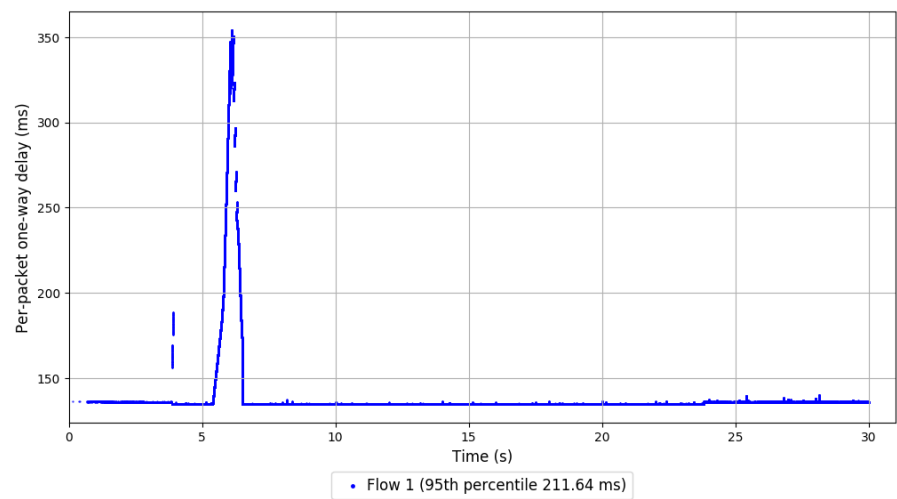
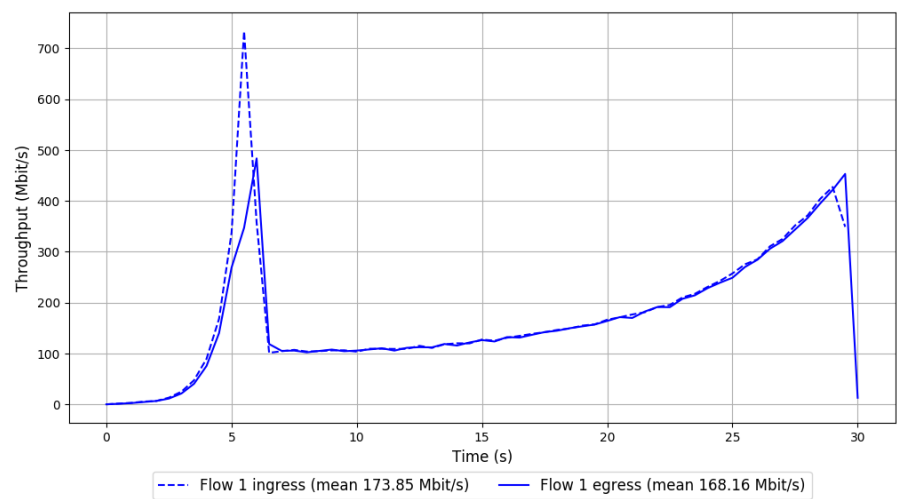
-- Flow 1:

Average throughput: 168.16 Mbit/s

95th percentile per-packet one-way delay: 211.637 ms

Loss rate: 3.28%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-13 15:11:29

End at: 2018-02-13 15:11:59

Below is generated by plot.py at 2018-02-13 18:36:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 398.43 Mbit/s

95th percentile per-packet one-way delay: 144.286 ms

Loss rate: 0.00%

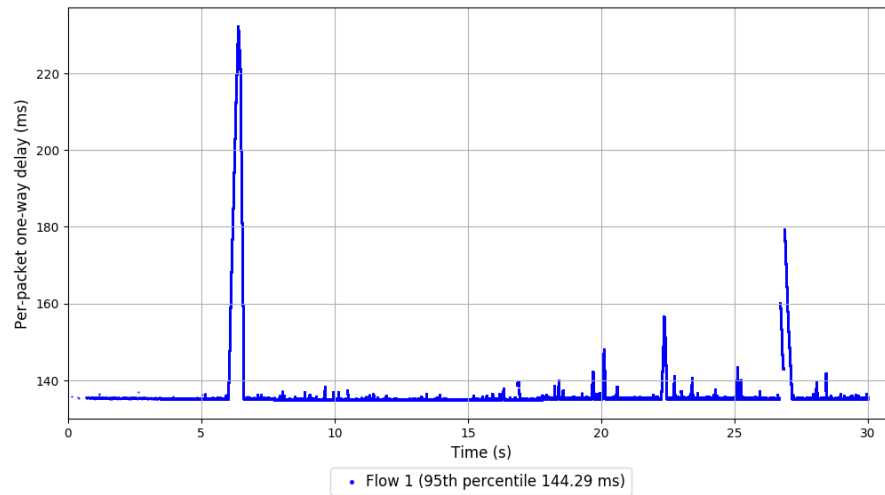
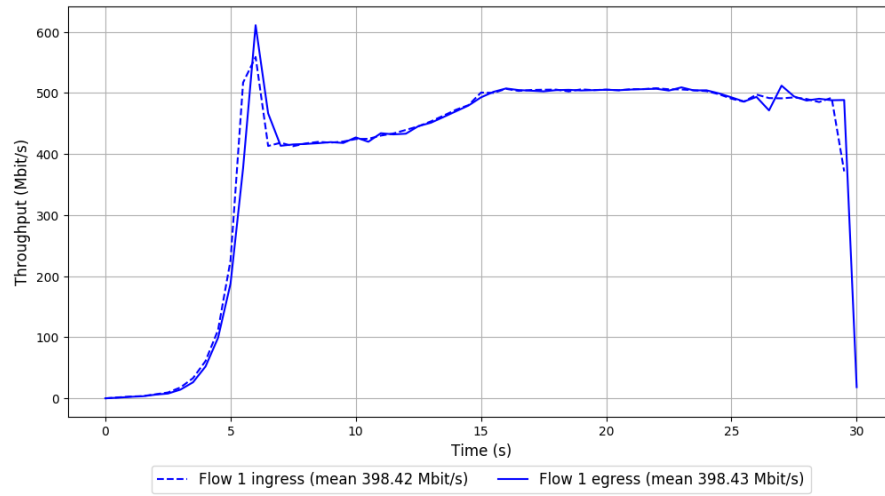
-- Flow 1:

Average throughput: 398.43 Mbit/s

95th percentile per-packet one-way delay: 144.286 ms

Loss rate: 0.00%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-13 15:27:47

End at: 2018-02-13 15:28:17

Below is generated by plot.py at 2018-02-13 18:36:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 358.66 Mbit/s

95th percentile per-packet one-way delay: 194.783 ms

Loss rate: 0.28%

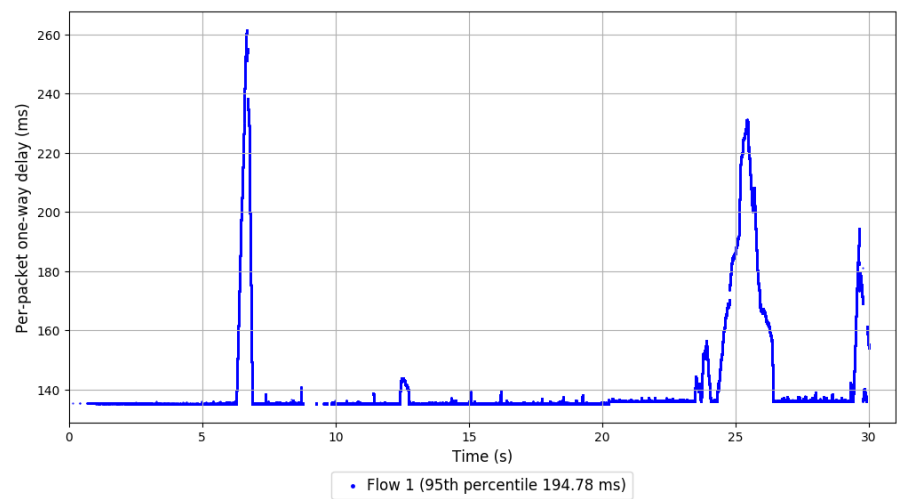
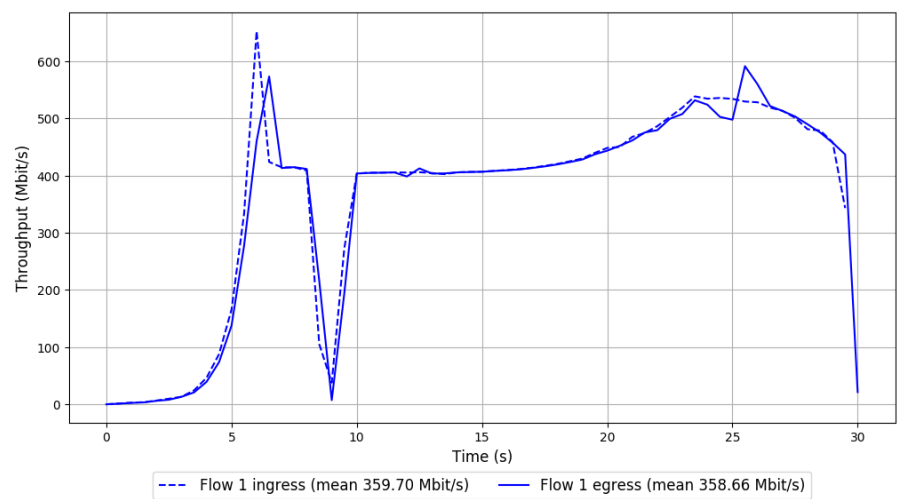
-- Flow 1:

Average throughput: 358.66 Mbit/s

95th percentile per-packet one-way delay: 194.783 ms

Loss rate: 0.28%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-13 15:43:52

End at: 2018-02-13 15:44:22

Below is generated by plot.py at 2018-02-13 18:36:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 317.49 Mbit/s

95th percentile per-packet one-way delay: 178.929 ms

Loss rate: 0.10%

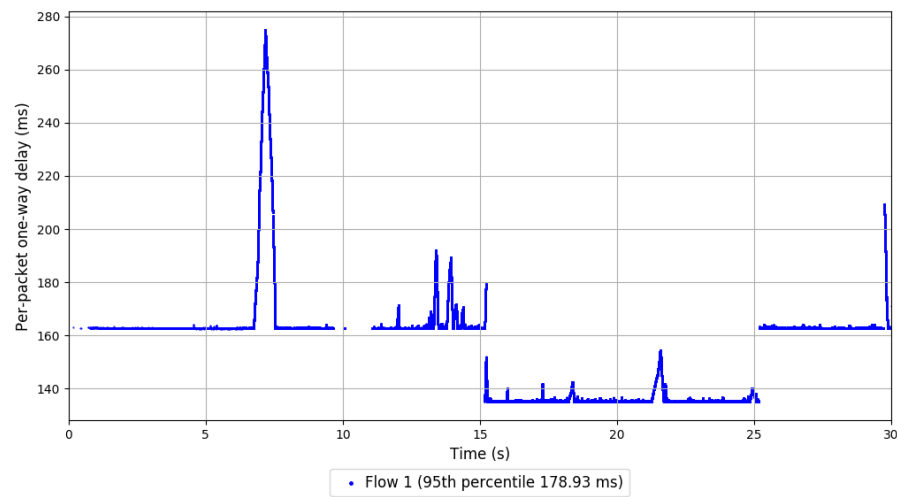
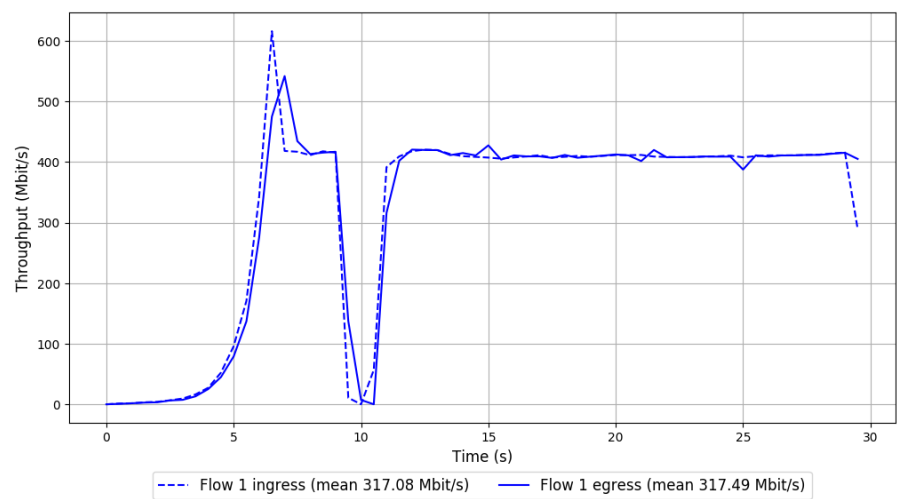
-- Flow 1:

Average throughput: 317.49 Mbit/s

95th percentile per-packet one-way delay: 178.929 ms

Loss rate: 0.10%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-13 16:00:03

End at: 2018-02-13 16:00:33

Below is generated by plot.py at 2018-02-13 18:36:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 389.09 Mbit/s

95th percentile per-packet one-way delay: 161.094 ms

Loss rate: 0.00%

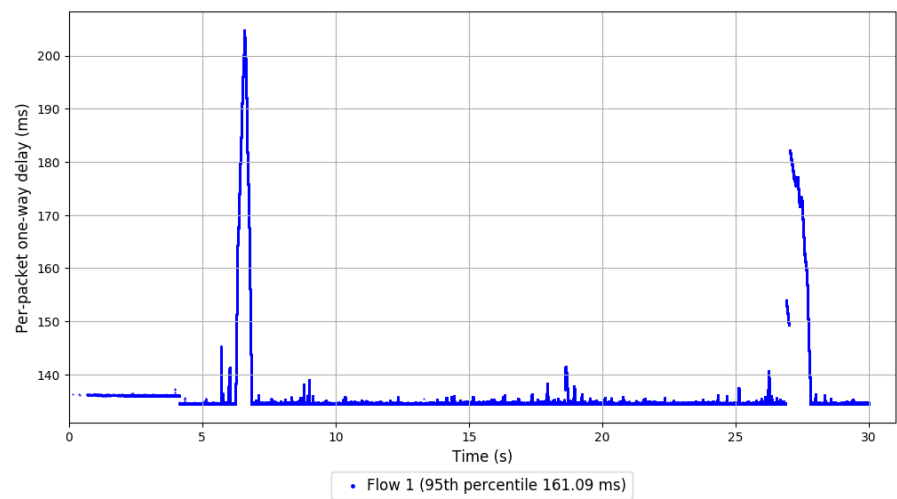
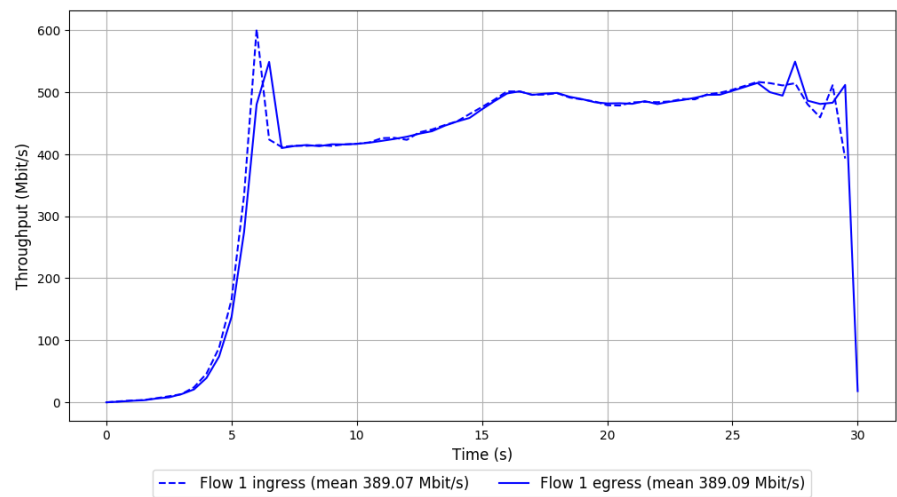
-- Flow 1:

Average throughput: 389.09 Mbit/s

95th percentile per-packet one-way delay: 161.094 ms

Loss rate: 0.00%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-13 16:15:40

End at: 2018-02-13 16:16:10

Below is generated by plot.py at 2018-02-13 18:36:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 352.52 Mbit/s

95th percentile per-packet one-way delay: 163.215 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 352.52 Mbit/s

95th percentile per-packet one-way delay: 163.215 ms

Loss rate: 0.00%

Run 10: Report of Vivace-LTE — Data Link

