

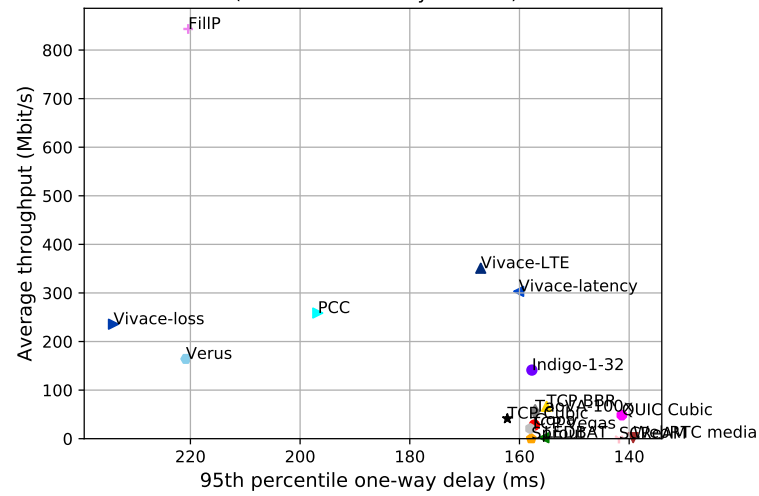
Pantheon Report

Generated at 2018-02-13 17:29:28 (UTC).
Data path: GCE London Ethernet (*remote*) → GCE Sydney Ethernet (*local*).
Repeated the test of 17 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

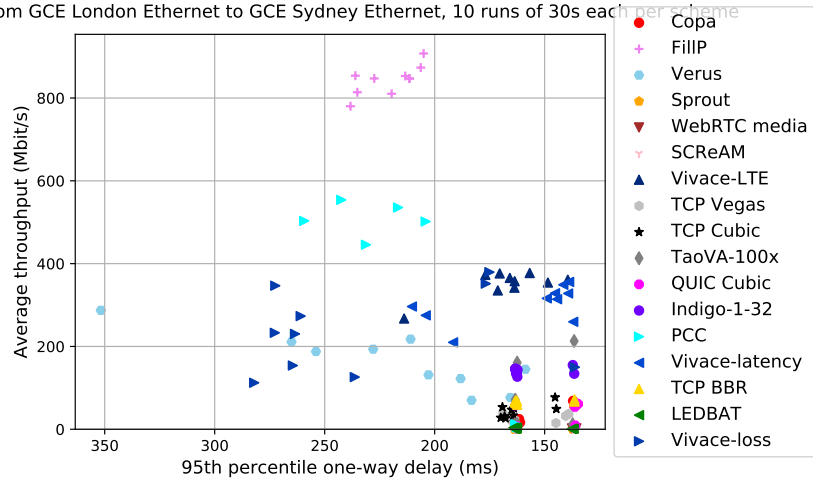
Git summary:

```
branch: master @ 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 @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	66.65	155.06	1.09
TCP Cubic	10	41.36	162.21	1.63
LEDBAT	10	1.97	155.55	1.44
PCC	10	258.65	196.77	2.06
QUIC Cubic	10	48.47	141.34	1.29
SCReAM	10	0.21	141.86	0.88
WebRTC media	10	2.07	139.26	1.07
Sprout	10	0.27	157.85	0.97
TaoVA-100x	9	55.77	157.15	0.80
TCP Vegas	10	20.75	158.03	1.05
Verus	10	164.24	220.83	3.02
Copa	10	28.12	157.28	0.85
FillP	10	843.39	220.41	5.08
Indigo-1-32	10	141.18	157.74	1.00
Vivace-latency	10	303.24	160.15	1.67
Vivace-loss	10	235.65	234.03	4.21
Vivace-LTE	10	350.98	167.06	1.62

Run 1: Statistics of TCP BBR

Start at: 2018-02-13 11:17:28

End at: 2018-02-13 11:17:58

Below is generated by plot.py at 2018-02-13 16:31:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.21 Mbit/s

95th percentile per-packet one-way delay: 136.430 ms

Loss rate: 1.20%

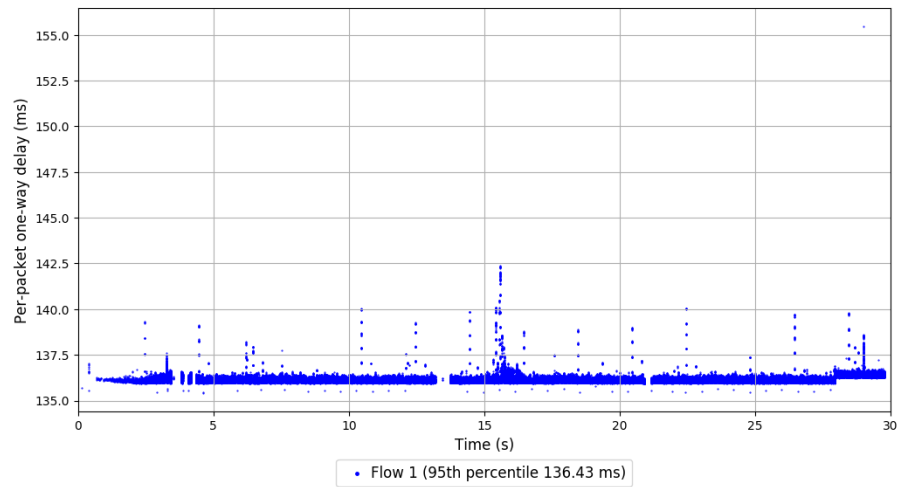
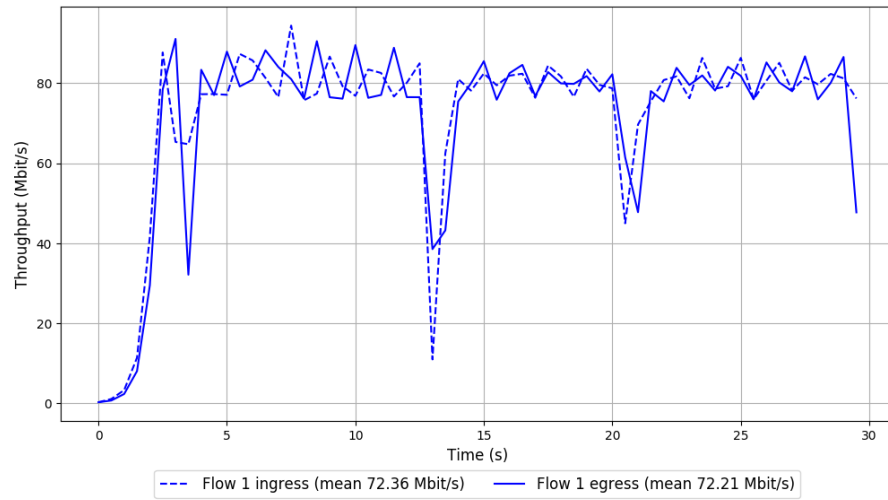
-- Flow 1:

Average throughput: 72.21 Mbit/s

95th percentile per-packet one-way delay: 136.430 ms

Loss rate: 1.20%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-13 11:33:16

End at: 2018-02-13 11:33:46

Below is generated by plot.py at 2018-02-13 16:31:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.70 Mbit/s

95th percentile per-packet one-way delay: 163.269 ms

Loss rate: 1.02%

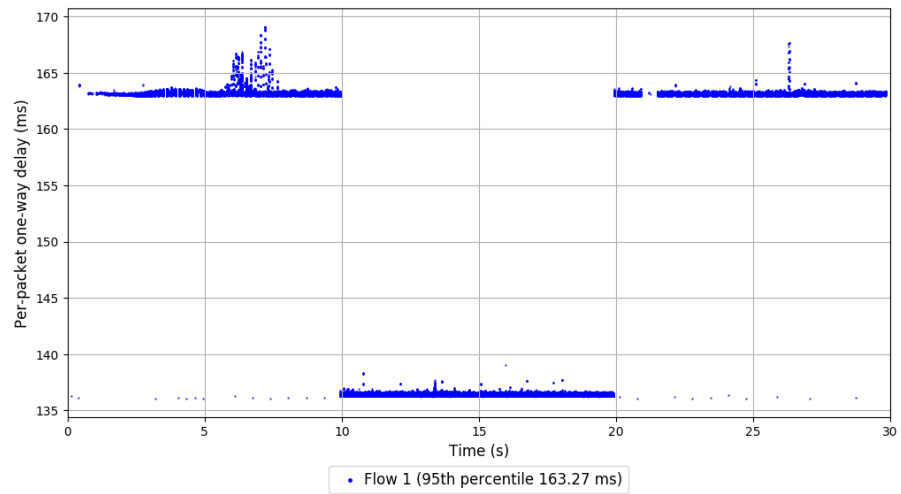
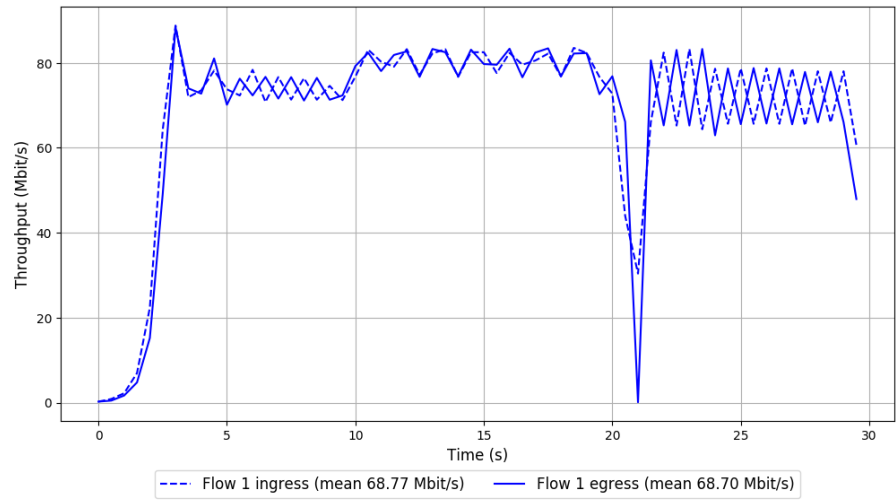
-- Flow 1:

Average throughput: 68.70 Mbit/s

95th percentile per-packet one-way delay: 163.269 ms

Loss rate: 1.02%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-13 11:48:38

End at: 2018-02-13 11:49:08

Below is generated by plot.py at 2018-02-13 16:31:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.21 Mbit/s

95th percentile per-packet one-way delay: 163.427 ms

Loss rate: 1.13%

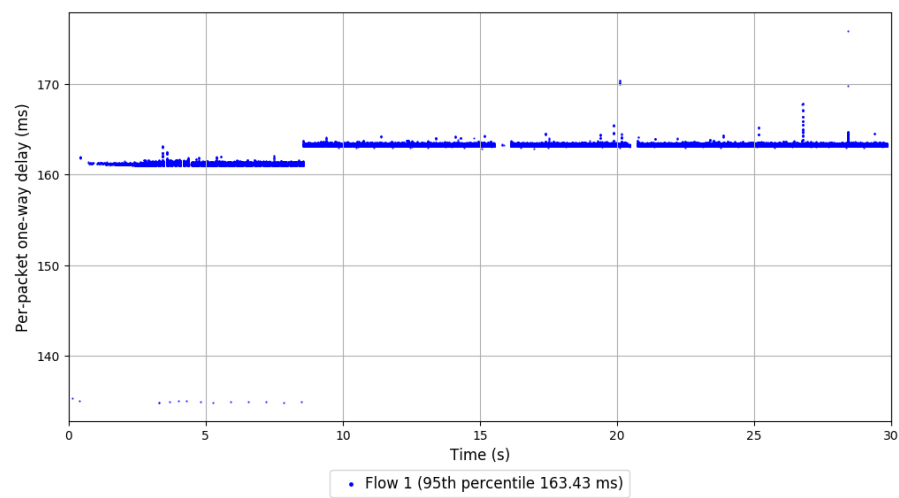
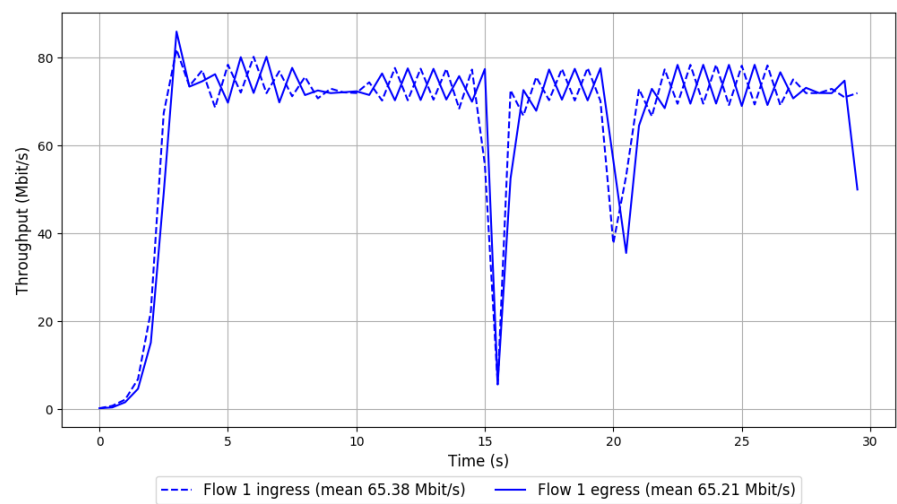
-- Flow 1:

Average throughput: 65.21 Mbit/s

95th percentile per-packet one-way delay: 163.427 ms

Loss rate: 1.13%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-13 12:04:11

End at: 2018-02-13 12:04:41

Below is generated by plot.py at 2018-02-13 16:31:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.84 Mbit/s

95th percentile per-packet one-way delay: 163.535 ms

Loss rate: 1.14%

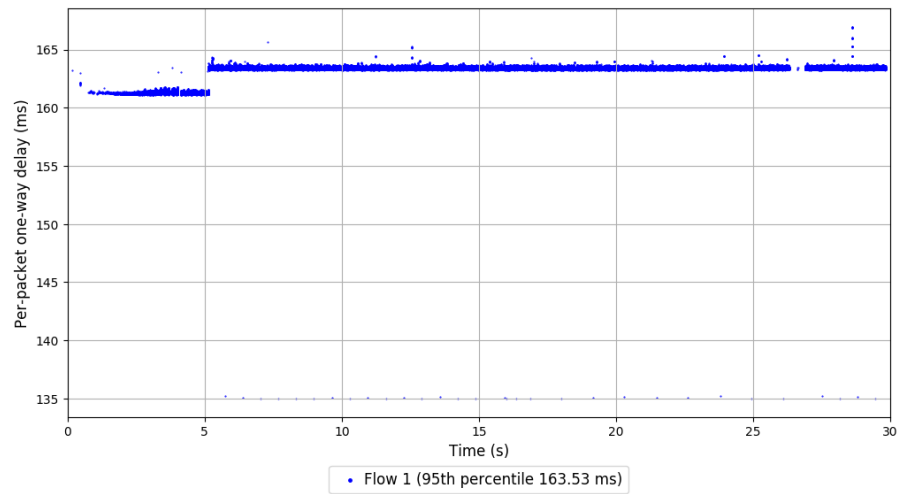
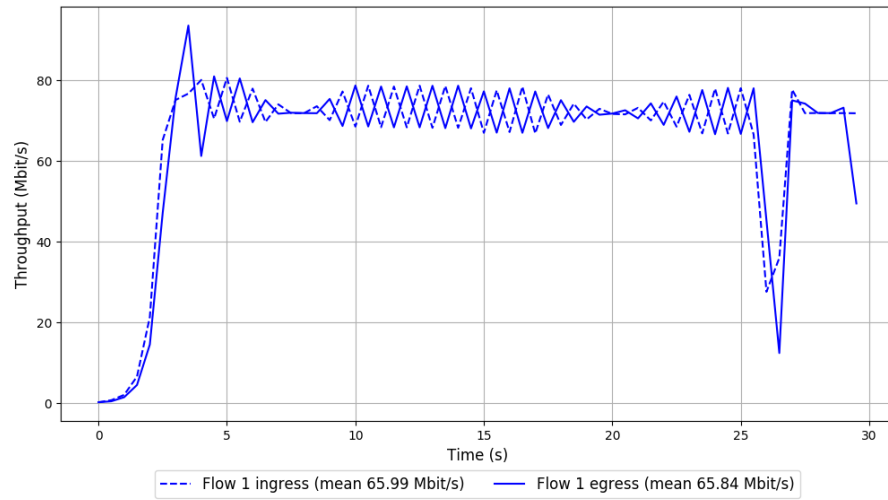
-- Flow 1:

Average throughput: 65.84 Mbit/s

95th percentile per-packet one-way delay: 163.535 ms

Loss rate: 1.14%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-13 12:19:51

End at: 2018-02-13 12:20:21

Below is generated by plot.py at 2018-02-13 16:31:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.72 Mbit/s

95th percentile per-packet one-way delay: 163.116 ms

Loss rate: 1.34%

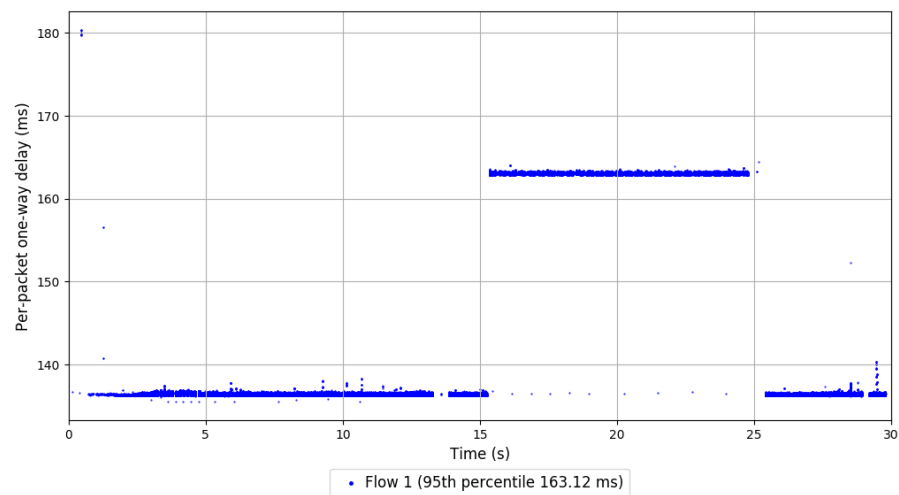
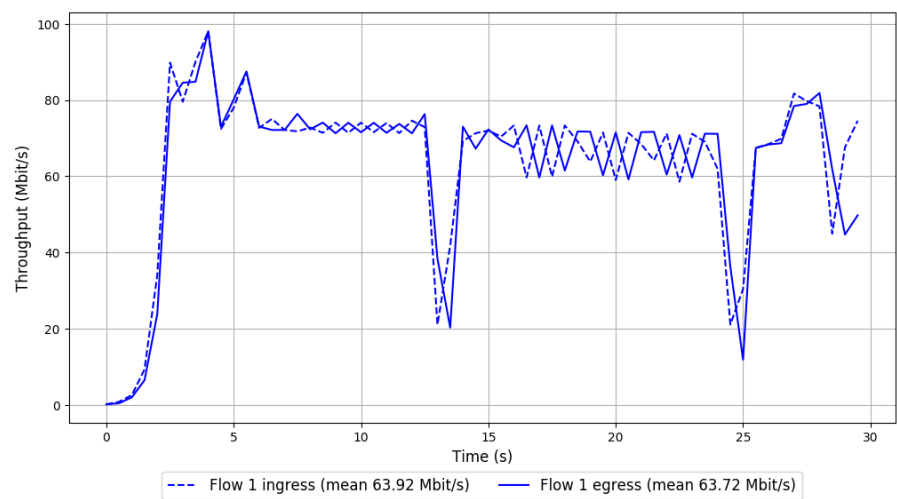
-- Flow 1:

Average throughput: 63.72 Mbit/s

95th percentile per-packet one-way delay: 163.116 ms

Loss rate: 1.34%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-13 12:35:49

End at: 2018-02-13 12:36:19

Below is generated by plot.py at 2018-02-13 16:31:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.95 Mbit/s

95th percentile per-packet one-way delay: 136.387 ms

Loss rate: 1.15%

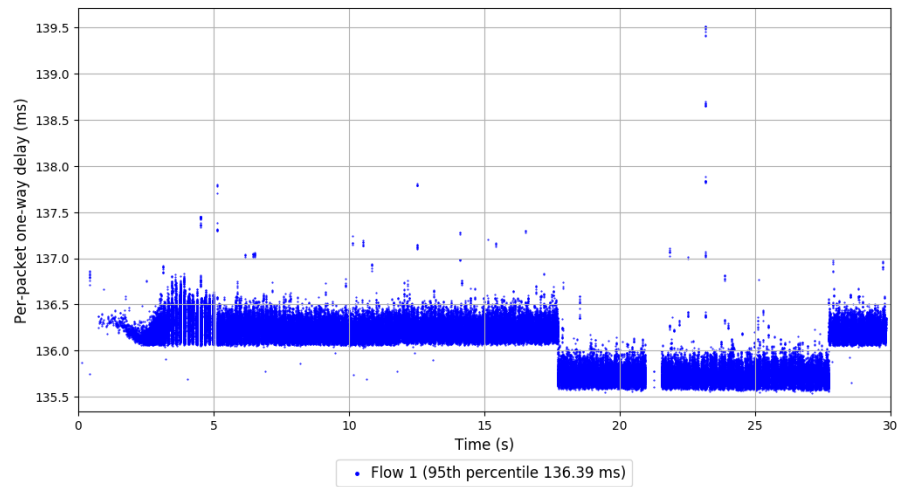
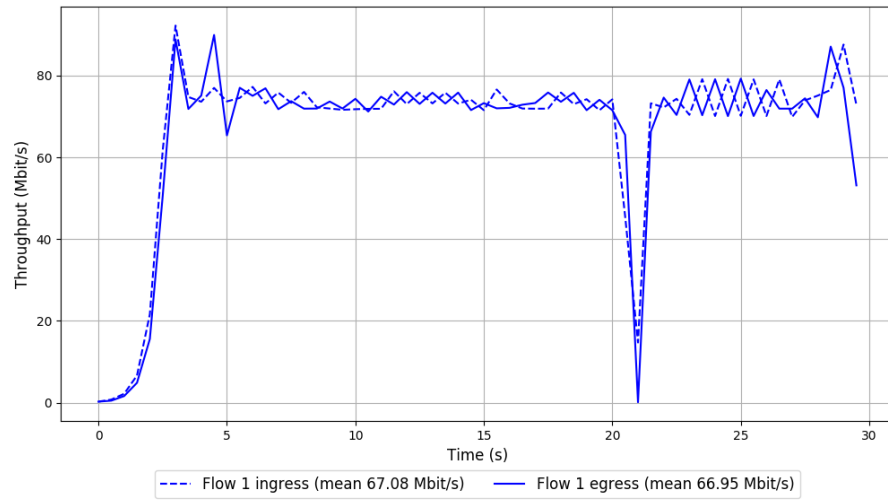
-- Flow 1:

Average throughput: 66.95 Mbit/s

95th percentile per-packet one-way delay: 136.387 ms

Loss rate: 1.15%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-13 12:51:03

End at: 2018-02-13 12:51:33

Below is generated by plot.py at 2018-02-13 16:31:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.03 Mbit/s

95th percentile per-packet one-way delay: 162.656 ms

Loss rate: 1.09%

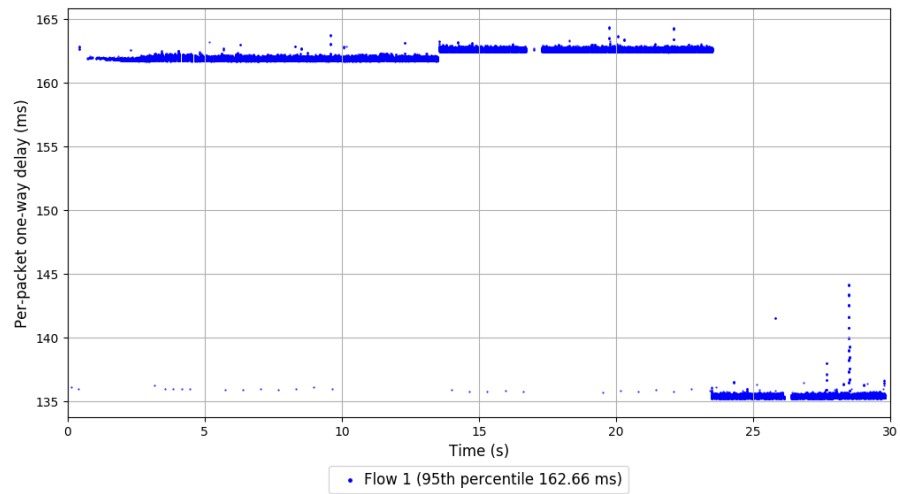
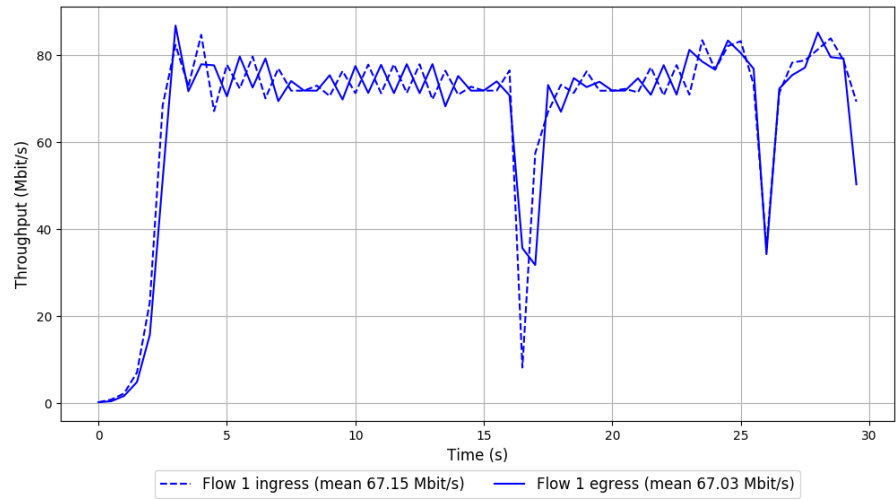
-- Flow 1:

Average throughput: 67.03 Mbit/s

95th percentile per-packet one-way delay: 162.656 ms

Loss rate: 1.09%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-13 13:06:09

End at: 2018-02-13 13:06:39

Below is generated by plot.py at 2018-02-13 16:31:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.44 Mbit/s

95th percentile per-packet one-way delay: 162.490 ms

Loss rate: 1.26%

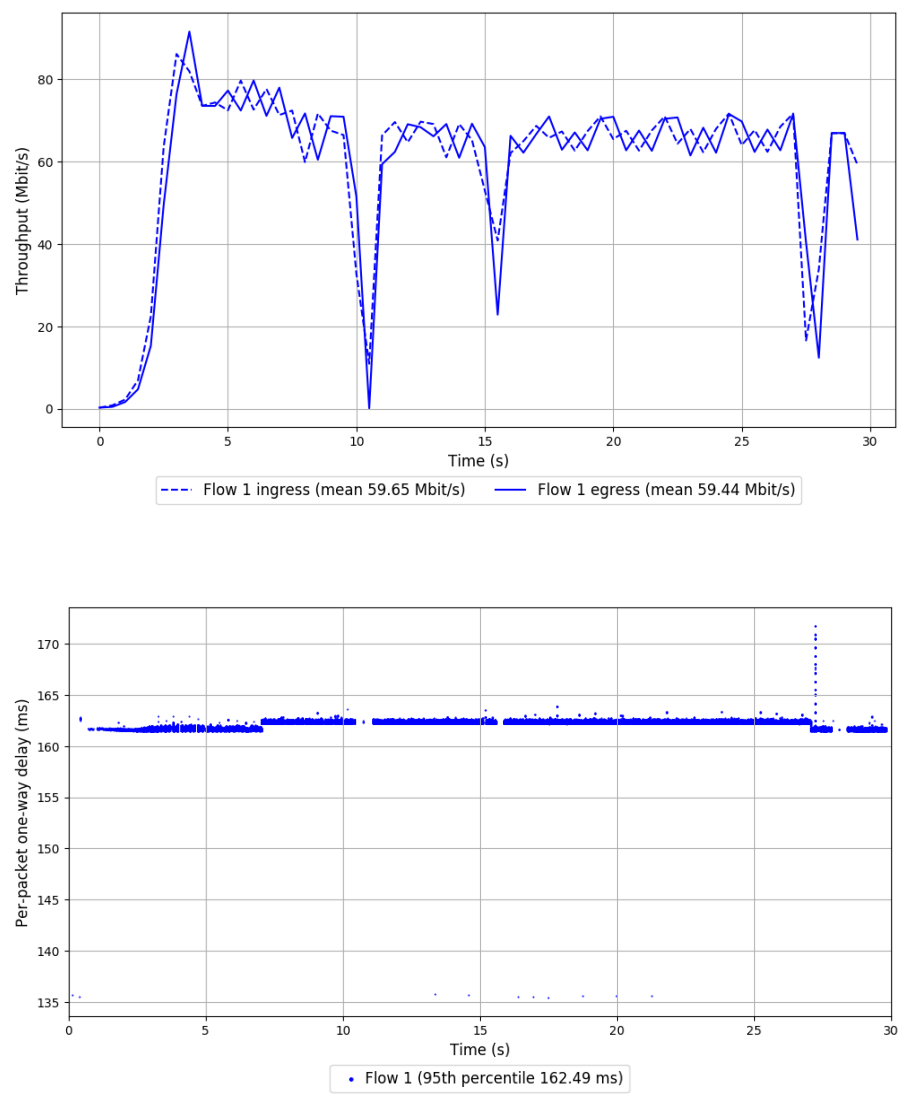
-- Flow 1:

Average throughput: 59.44 Mbit/s

95th percentile per-packet one-way delay: 162.490 ms

Loss rate: 1.26%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-13 13:21:41

End at: 2018-02-13 13:22:11

Below is generated by plot.py at 2018-02-13 16:32:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.49 Mbit/s

95th percentile per-packet one-way delay: 162.716 ms

Loss rate: 1.15%

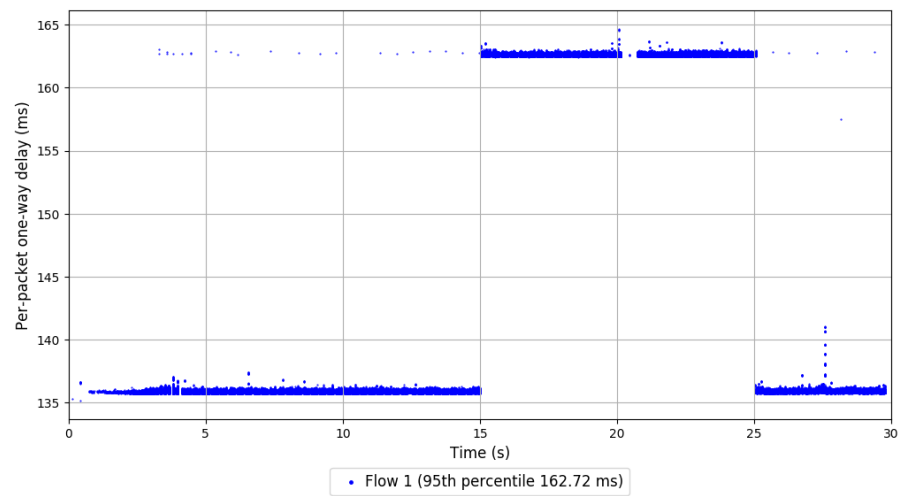
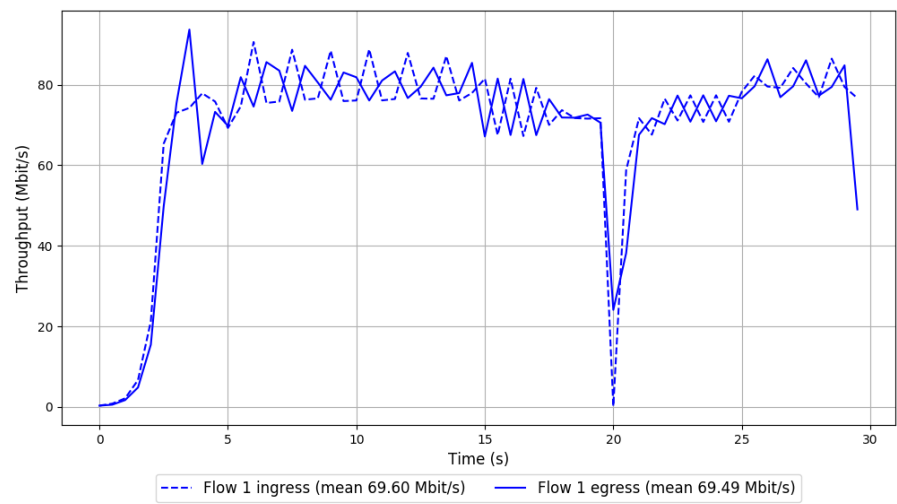
-- Flow 1:

Average throughput: 69.49 Mbit/s

95th percentile per-packet one-way delay: 162.716 ms

Loss rate: 1.15%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-13 13:37:23

End at: 2018-02-13 13:37:53

Below is generated by plot.py at 2018-02-13 16:33:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.93 Mbit/s

95th percentile per-packet one-way delay: 136.568 ms

Loss rate: 0.38%

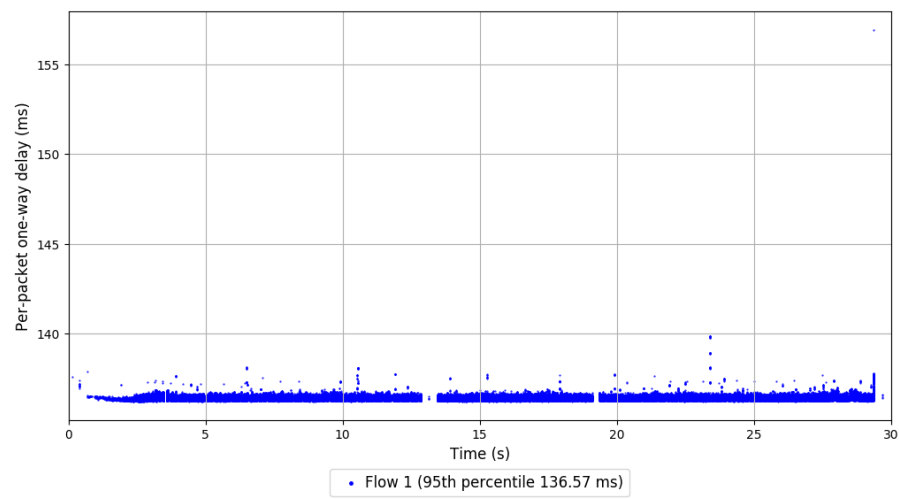
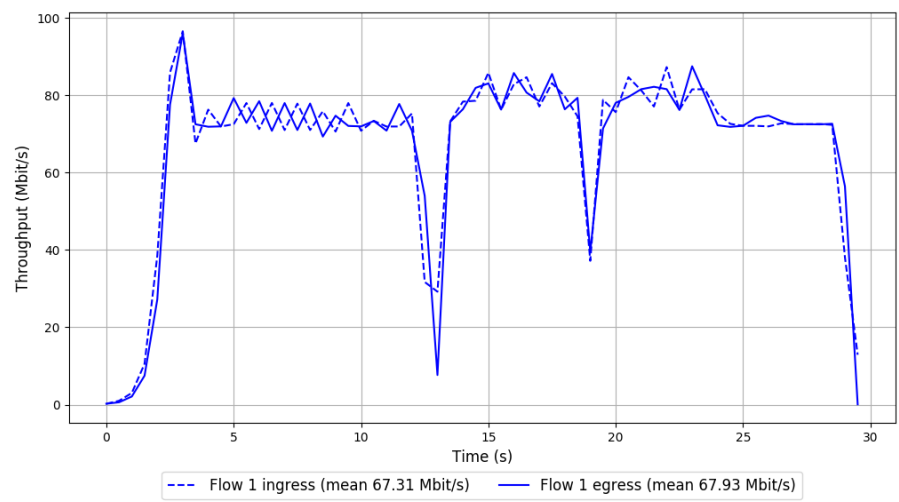
-- Flow 1:

Average throughput: 67.93 Mbit/s

95th percentile per-packet one-way delay: 136.568 ms

Loss rate: 0.38%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-13 11:23:07

End at: 2018-02-13 11:23:37

Below is generated by plot.py at 2018-02-13 16:33:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.04 Mbit/s

95th percentile per-packet one-way delay: 144.697 ms

Loss rate: 1.61%

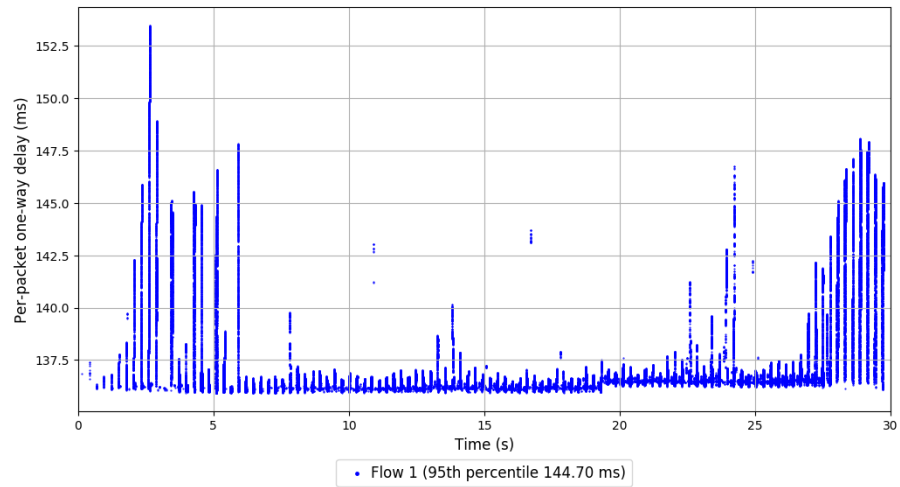
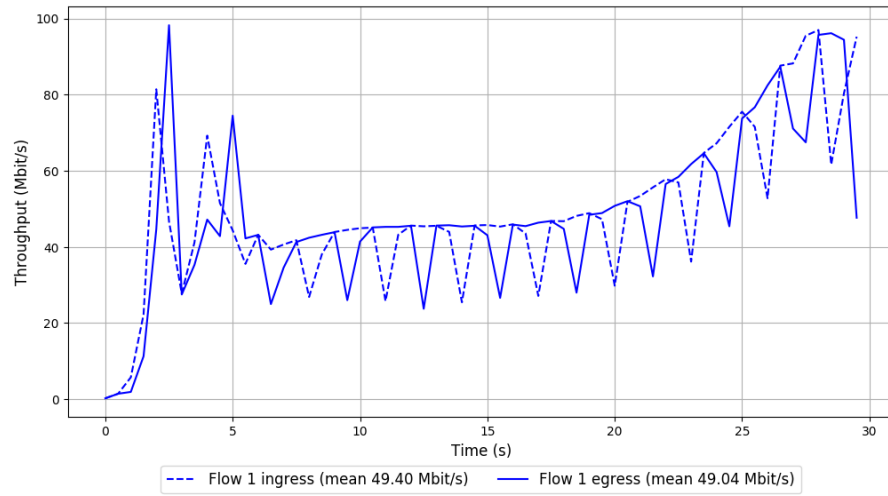
-- Flow 1:

Average throughput: 49.04 Mbit/s

95th percentile per-packet one-way delay: 144.697 ms

Loss rate: 1.61%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-13 11:38:33

End at: 2018-02-13 11:39:03

Below is generated by plot.py at 2018-02-13 16:33:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.52 Mbit/s

95th percentile per-packet one-way delay: 169.177 ms

Loss rate: 1.49%

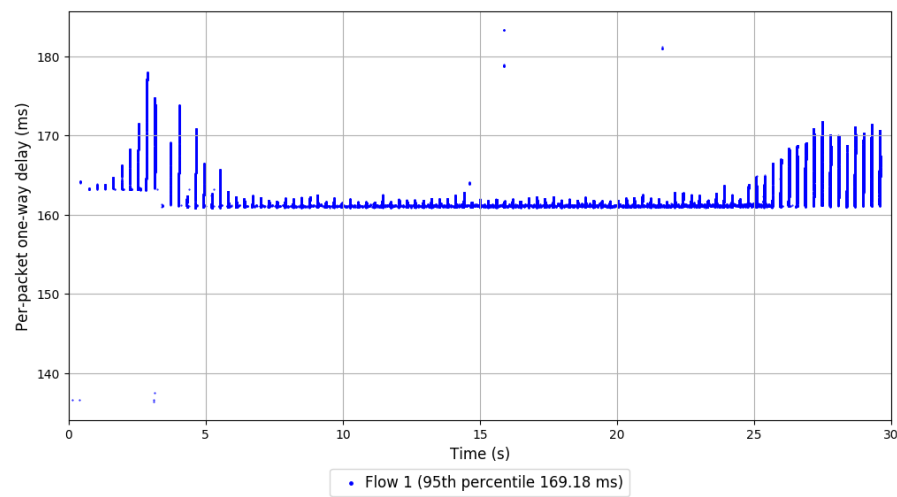
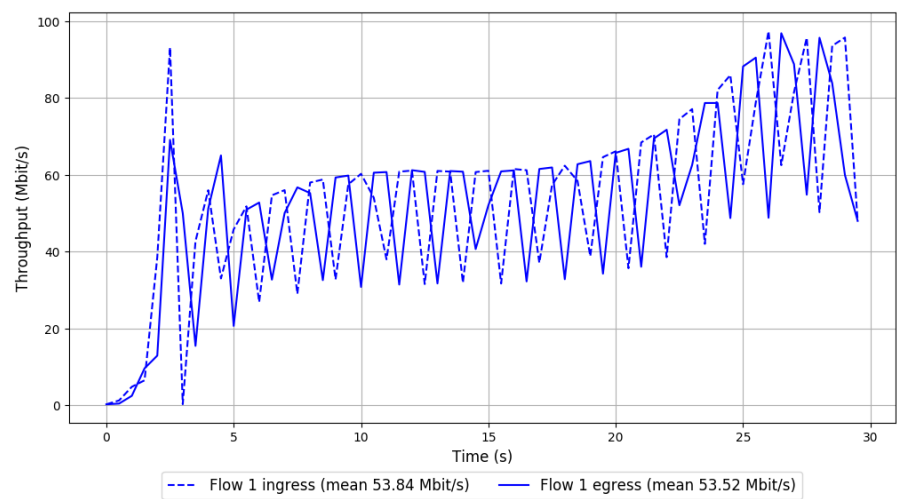
-- Flow 1:

Average throughput: 53.52 Mbit/s

95th percentile per-packet one-way delay: 169.177 ms

Loss rate: 1.49%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-13 11:54:04

End at: 2018-02-13 11:54:34

Below is generated by plot.py at 2018-02-13 16:33:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.15 Mbit/s

95th percentile per-packet one-way delay: 165.018 ms

Loss rate: 1.93%

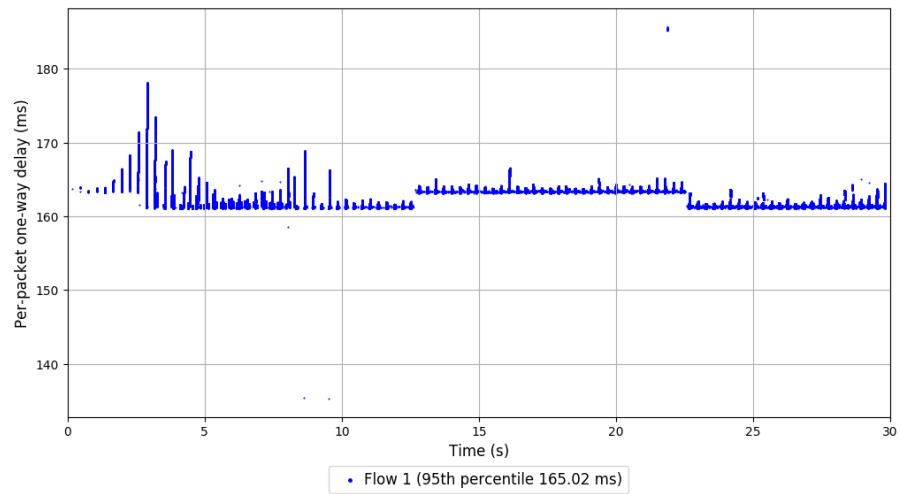
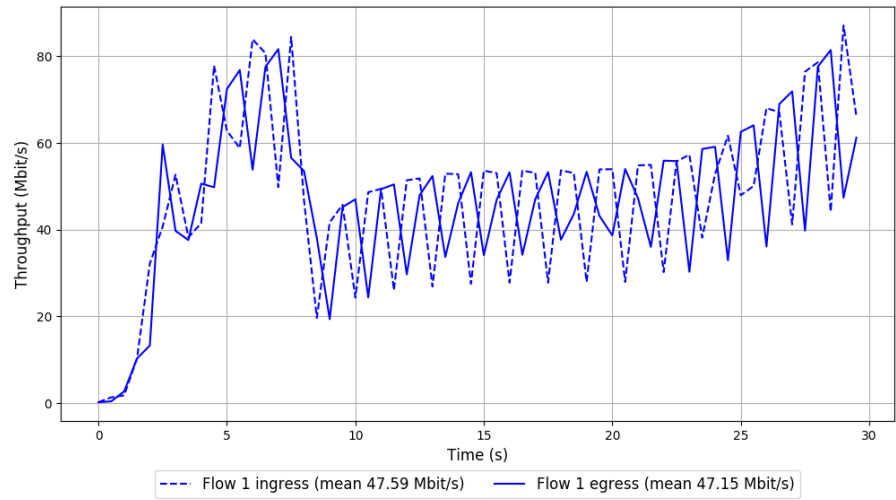
-- Flow 1:

Average throughput: 47.15 Mbit/s

95th percentile per-packet one-way delay: 165.018 ms

Loss rate: 1.93%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-13 12:09:36

End at: 2018-02-13 12:10:06

Below is generated by plot.py at 2018-02-13 16:33:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.19 Mbit/s

95th percentile per-packet one-way delay: 168.232 ms

Loss rate: 1.00%

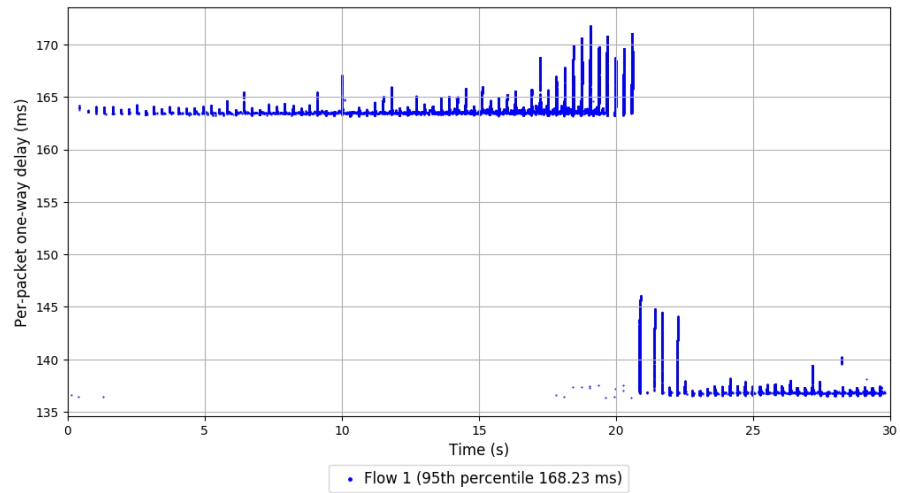
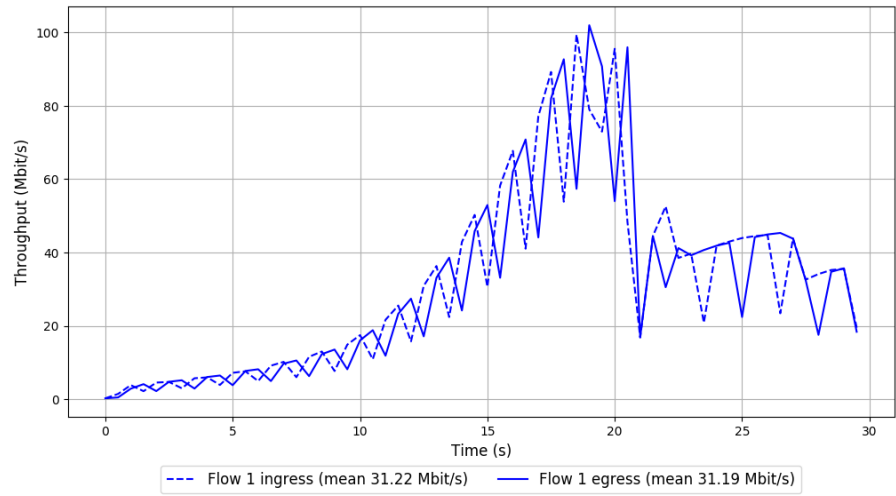
-- Flow 1:

Average throughput: 31.19 Mbit/s

95th percentile per-packet one-way delay: 168.232 ms

Loss rate: 1.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-13 12:25:15

End at: 2018-02-13 12:25:45

Below is generated by plot.py at 2018-02-13 16:33:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.16 Mbit/s

95th percentile per-packet one-way delay: 164.269 ms

Loss rate: 1.37%

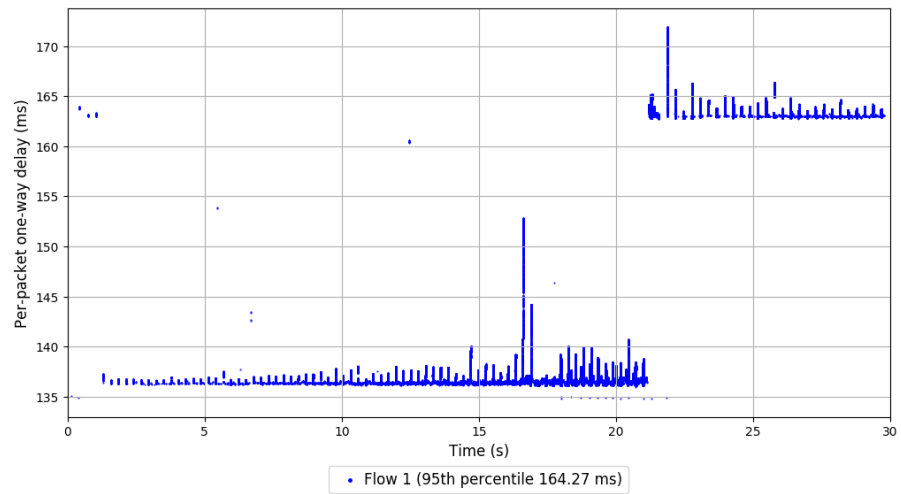
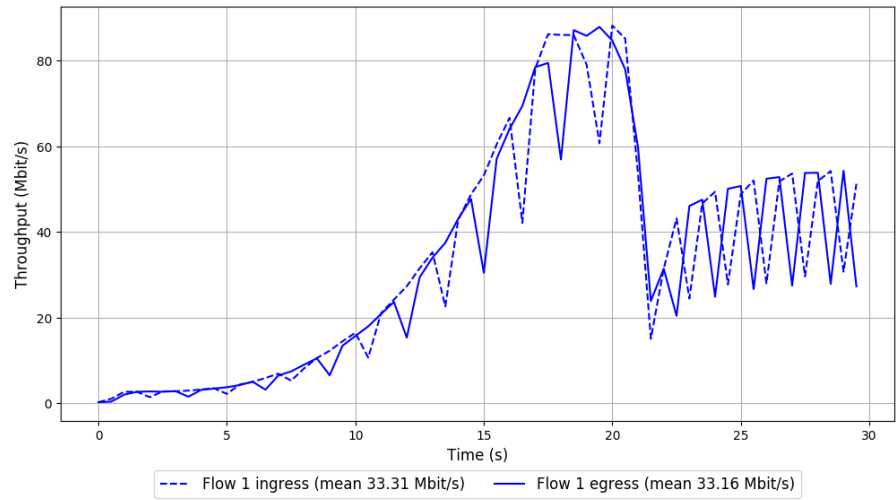
-- Flow 1:

Average throughput: 33.16 Mbit/s

95th percentile per-packet one-way delay: 164.269 ms

Loss rate: 1.37%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-13 12:41:13

End at: 2018-02-13 12:41:43

Below is generated by plot.py at 2018-02-13 16:33:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.44 Mbit/s

95th percentile per-packet one-way delay: 167.776 ms

Loss rate: 1.48%

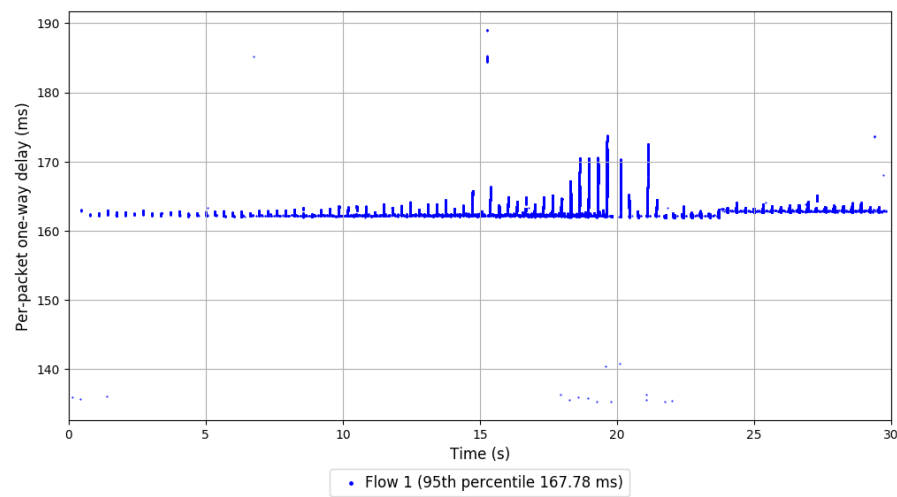
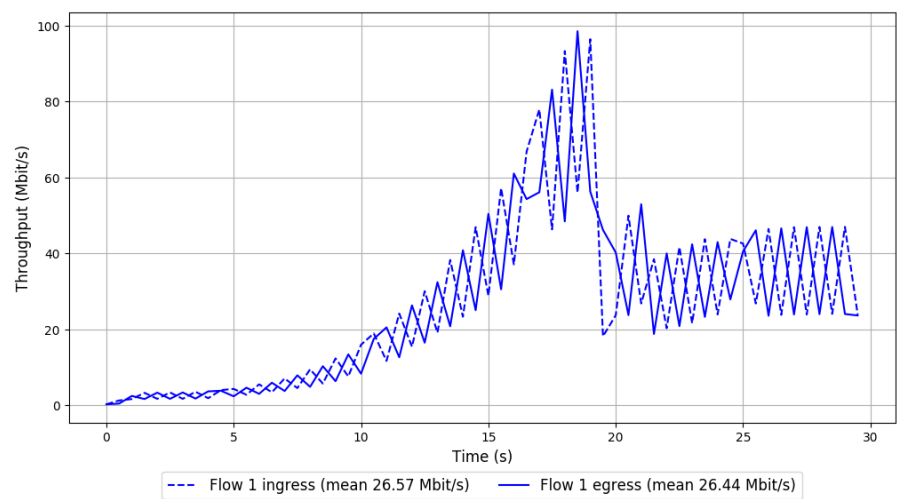
-- Flow 1:

Average throughput: 26.44 Mbit/s

95th percentile per-packet one-way delay: 167.776 ms

Loss rate: 1.48%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-13 12:56:22

End at: 2018-02-13 12:56:52

Below is generated by plot.py at 2018-02-13 16:33:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.80 Mbit/s

95th percentile per-packet one-way delay: 169.954 ms

Loss rate: 3.02%

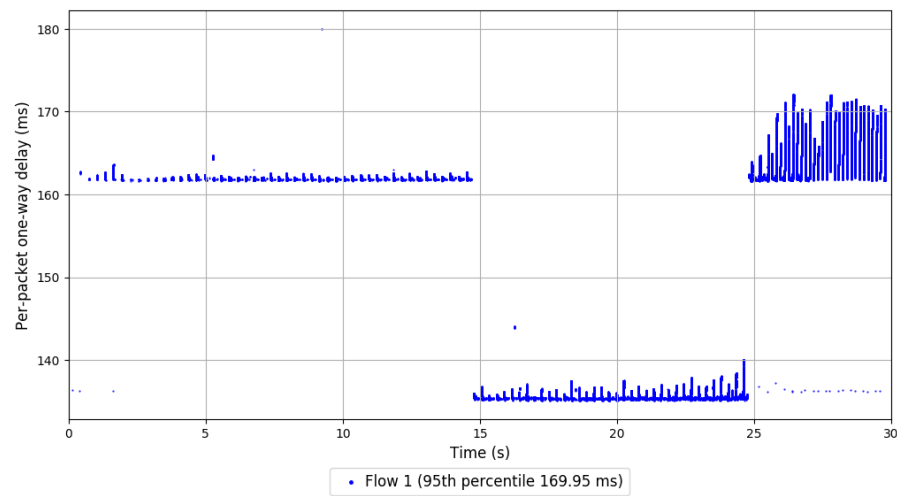
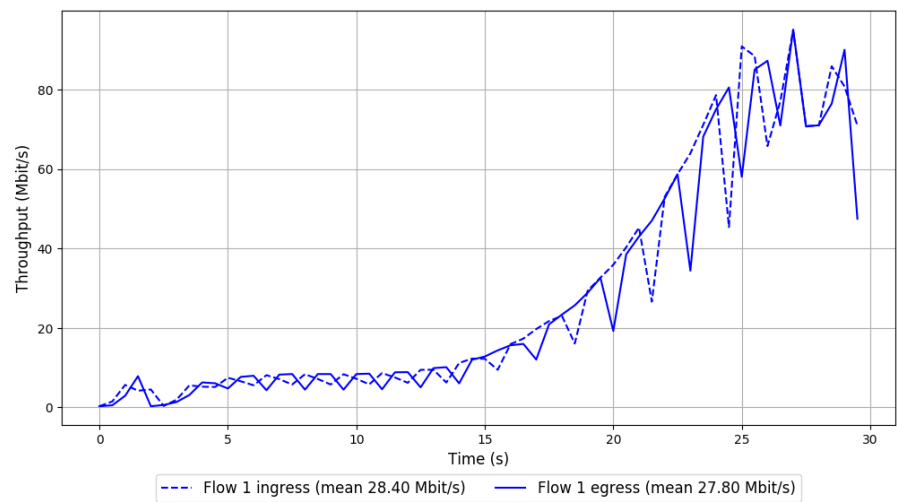
-- Flow 1:

Average throughput: 27.80 Mbit/s

95th percentile per-packet one-way delay: 169.954 ms

Loss rate: 3.02%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-13 13:11:43

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

Below is generated by plot.py at 2018-02-13 16:33:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.85 Mbit/s

95th percentile per-packet one-way delay: 163.758 ms

Loss rate: 2.17%

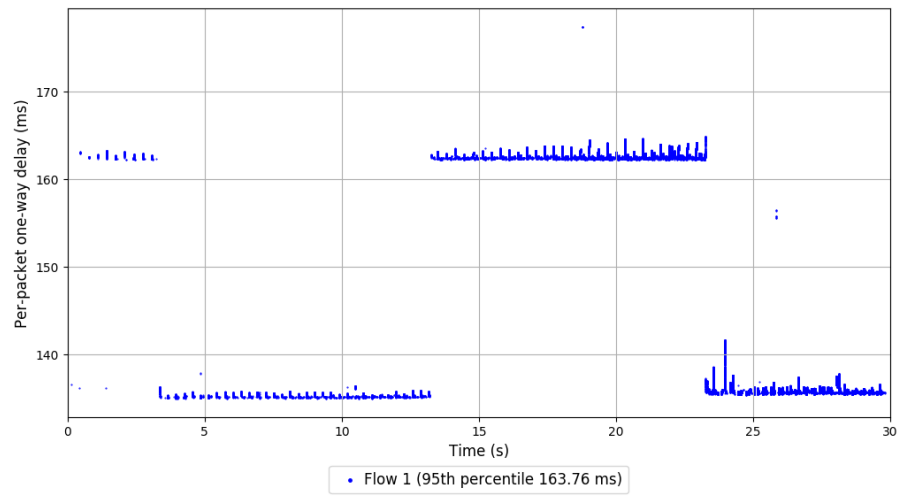
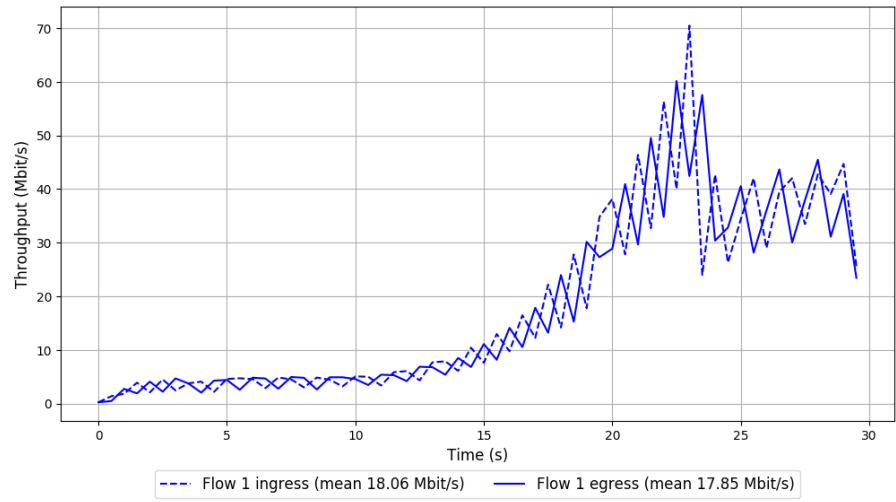
-- Flow 1:

Average throughput: 17.85 Mbit/s

95th percentile per-packet one-way delay: 163.758 ms

Loss rate: 2.17%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

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

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

Below is generated by plot.py at 2018-02-13 16:33:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.52 Mbit/s

95th percentile per-packet one-way delay: 163.967 ms

Loss rate: 1.17%

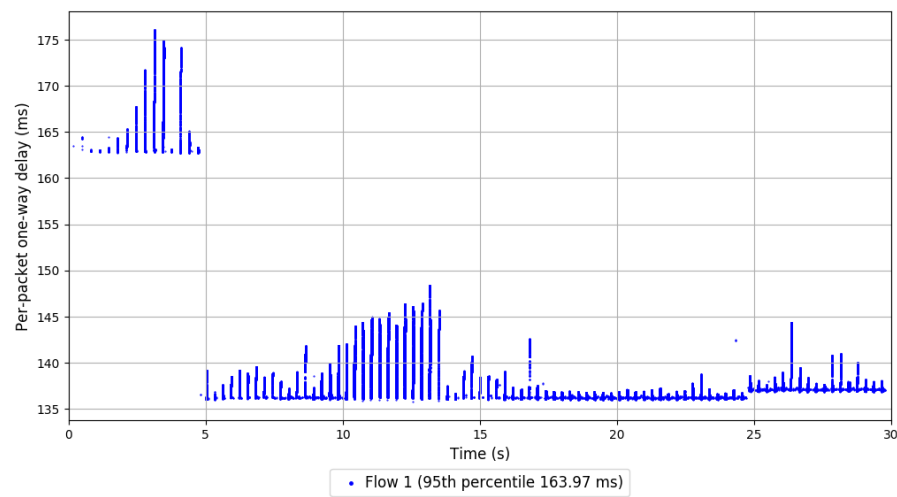
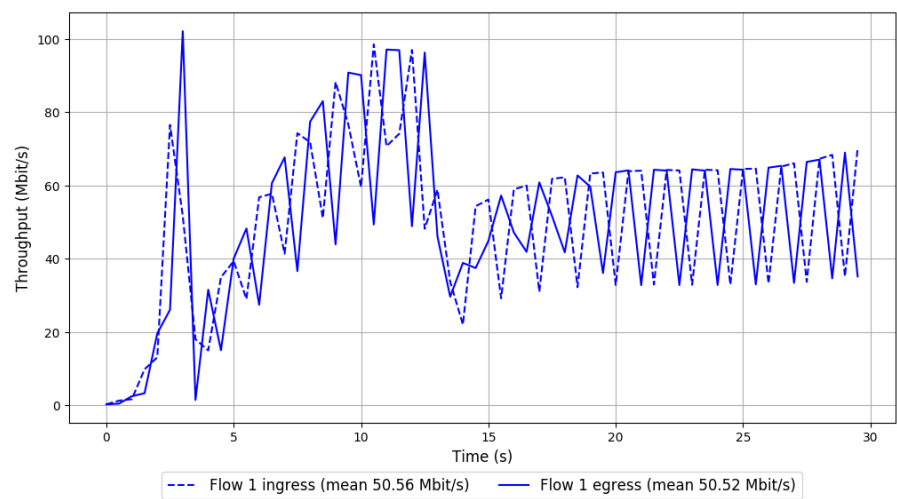
-- Flow 1:

Average throughput: 50.52 Mbit/s

95th percentile per-packet one-way delay: 163.967 ms

Loss rate: 1.17%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-13 13:42:51

End at: 2018-02-13 13:43:21

Below is generated by plot.py at 2018-02-13 16:33:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.98 Mbit/s

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

Loss rate: 1.09%

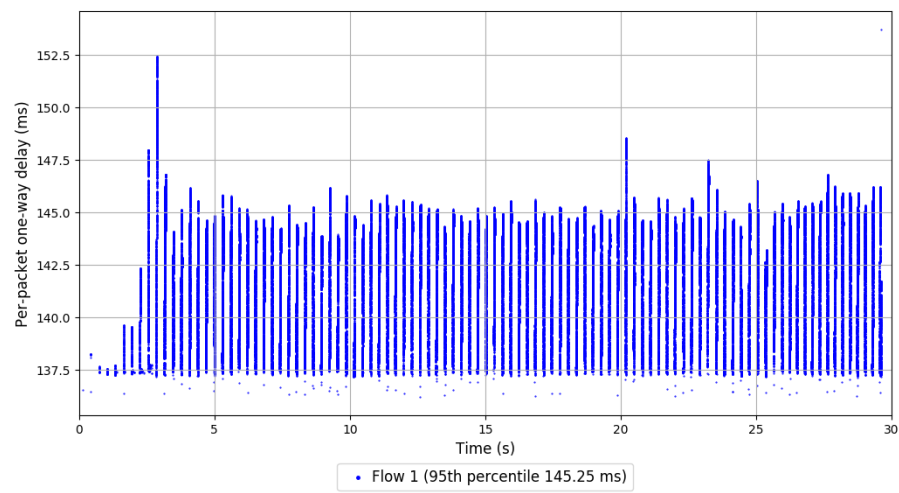
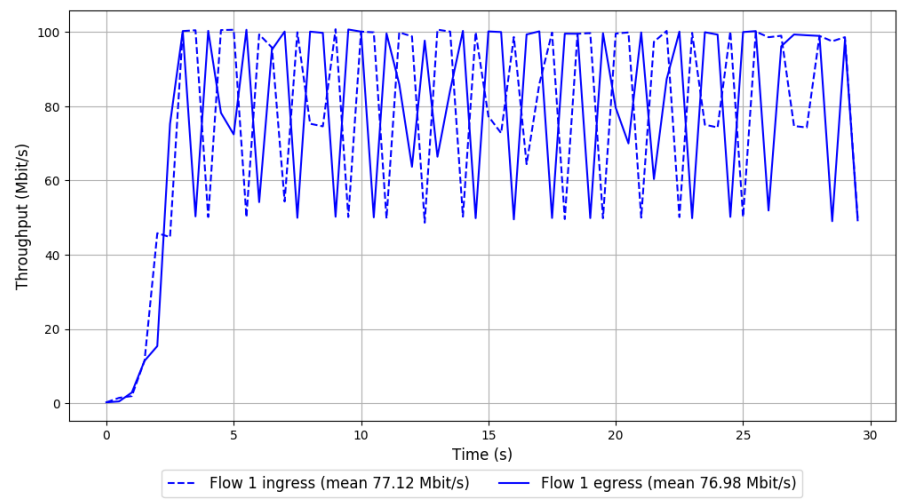
-- Flow 1:

Average throughput: 76.98 Mbit/s

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

Loss rate: 1.09%

Run 10: Report of TCP Cubic — Data Link

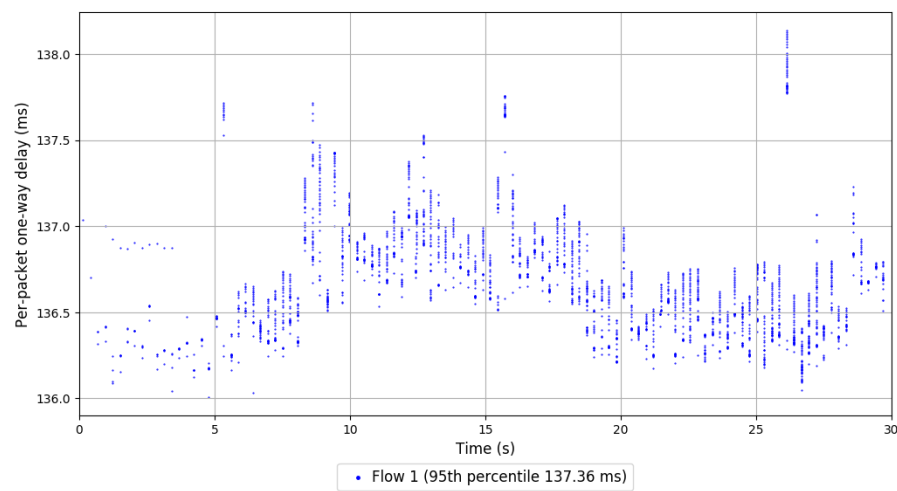
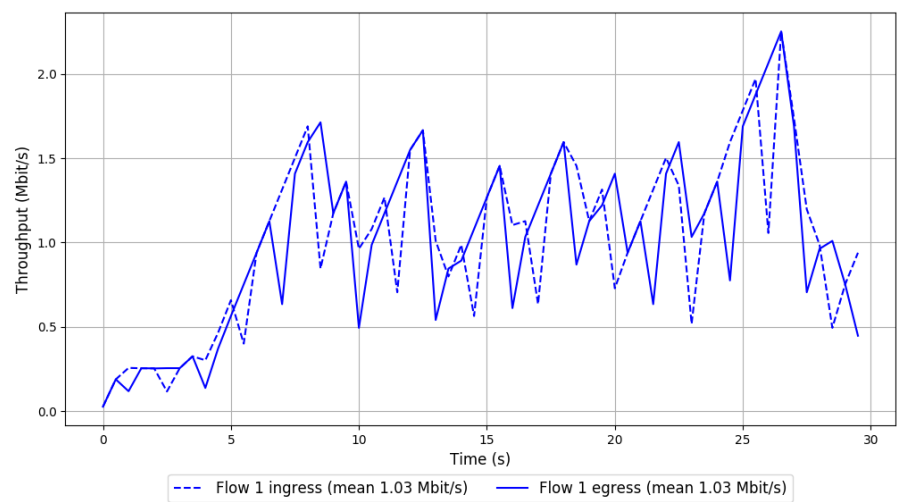


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-13 11:07:48
End at: 2018-02-13 11:08:18

# Below is generated by plot.py at 2018-02-13 16:33:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.03 Mbit/s
95th percentile per-packet one-way delay: 137.356 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 1.03 Mbit/s
95th percentile per-packet one-way delay: 137.356 ms
Loss rate: 0.88%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-02-13 11:23:53

End at: 2018-02-13 11:24:23

Below is generated by plot.py at 2018-02-13 16:33:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.67 Mbit/s

95th percentile per-packet one-way delay: 137.804 ms

Loss rate: 1.23%

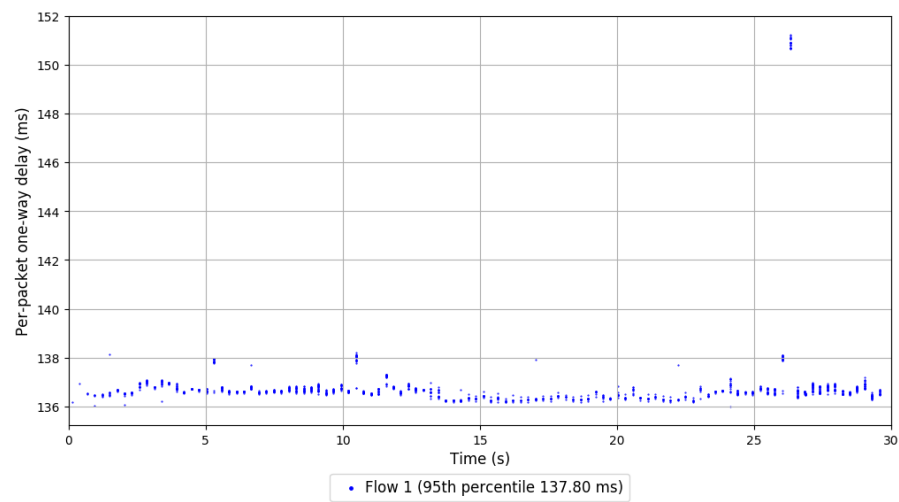
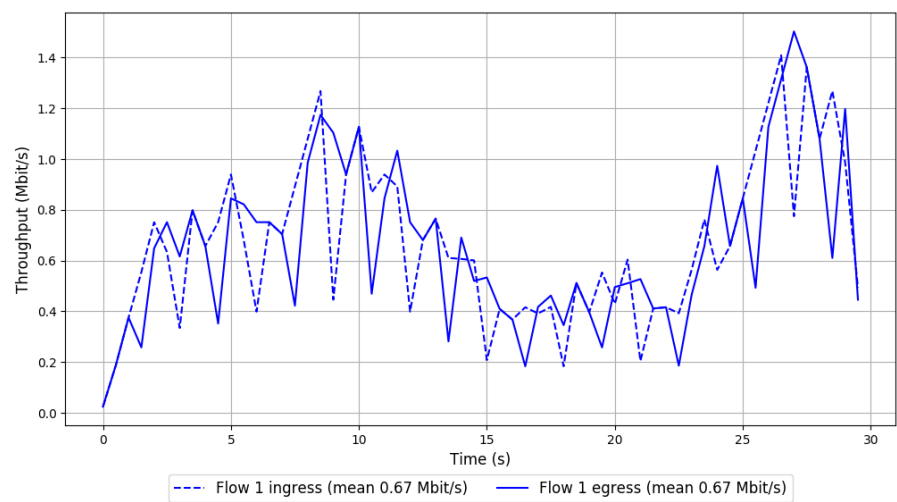
-- Flow 1:

Average throughput: 0.67 Mbit/s

95th percentile per-packet one-way delay: 137.804 ms

Loss rate: 1.23%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-13 11:39:19

End at: 2018-02-13 11:39:49

Below is generated by plot.py at 2018-02-13 16:33:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 163.698 ms

Loss rate: 0.53%

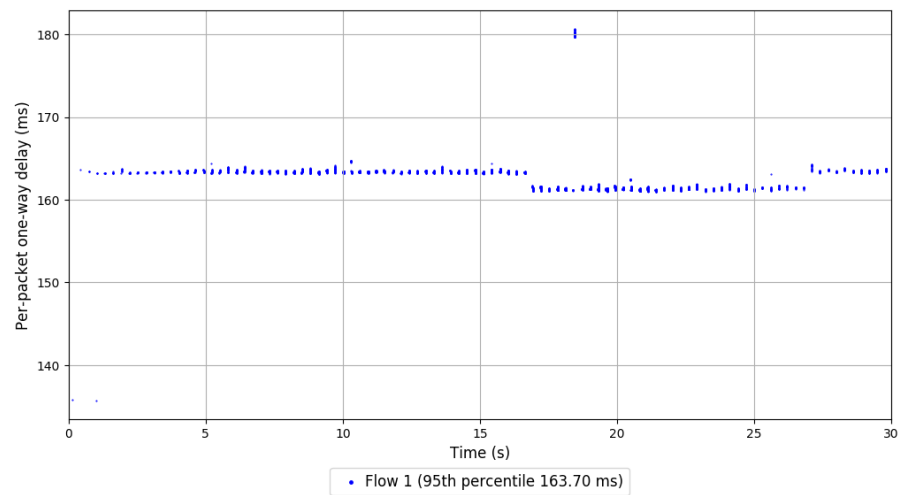
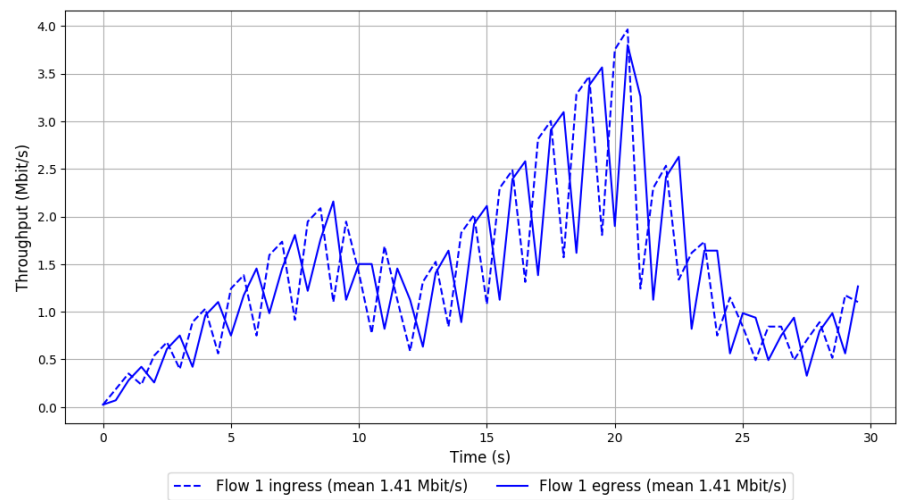
-- Flow 1:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 163.698 ms

Loss rate: 0.53%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-13 11:54:50

End at: 2018-02-13 11:55:20

Below is generated by plot.py at 2018-02-13 16:33:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 163.656 ms

Loss rate: 1.41%

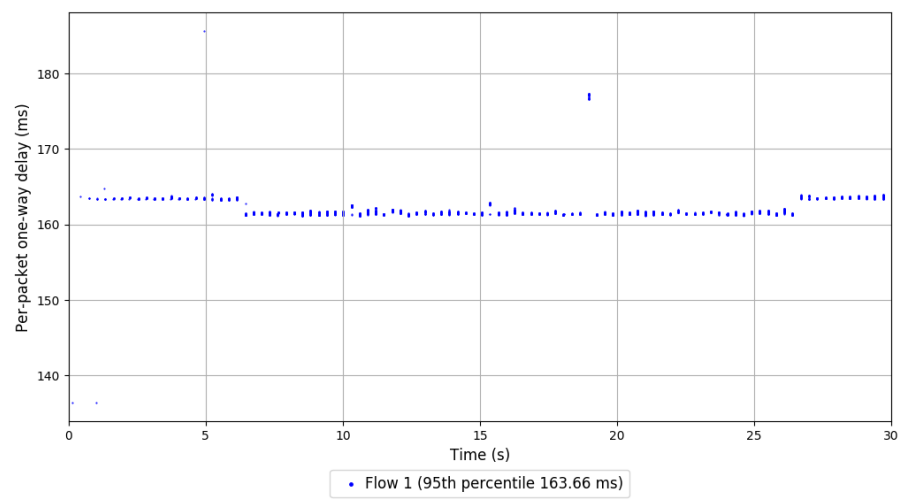
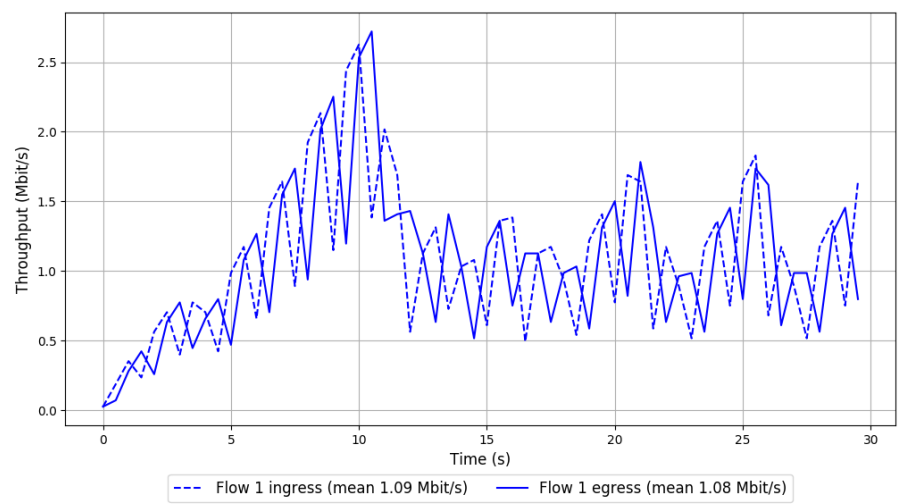
-- Flow 1:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 163.656 ms

Loss rate: 1.41%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-13 12:10:21

End at: 2018-02-13 12:10:51

Below is generated by plot.py at 2018-02-13 16:33:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.74 Mbit/s

95th percentile per-packet one-way delay: 164.256 ms

Loss rate: 1.86%

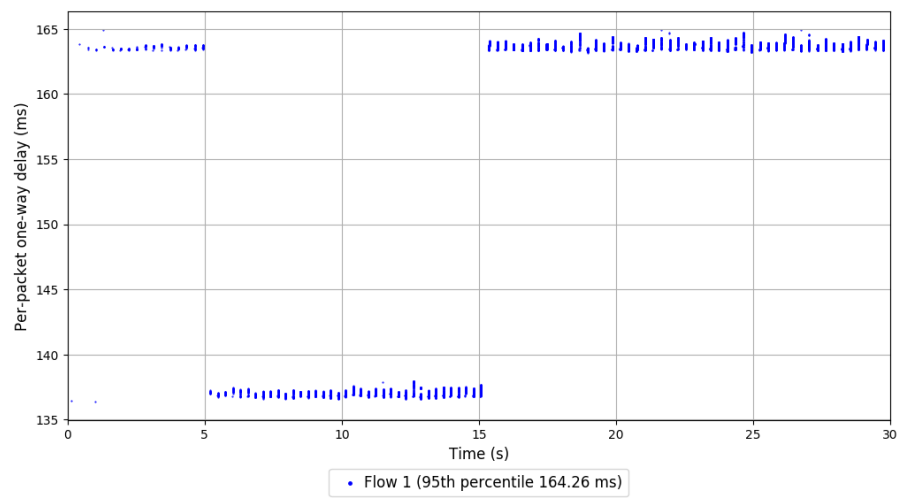
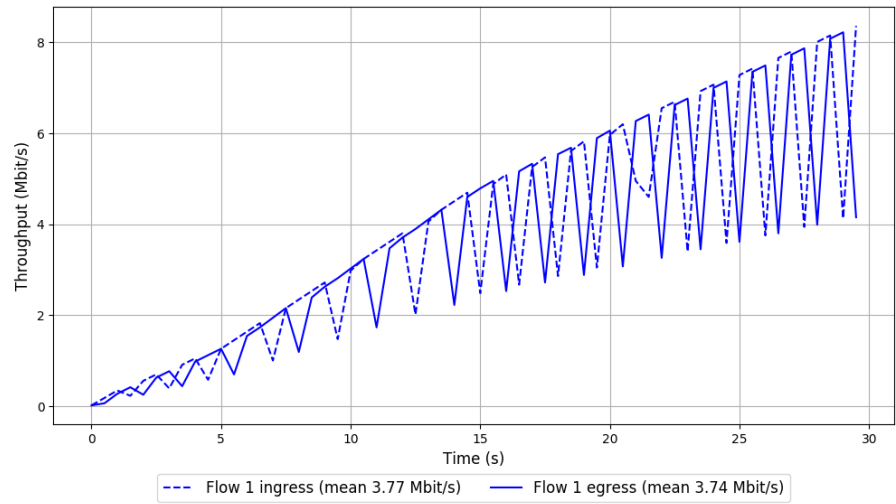
-- Flow 1:

Average throughput: 3.74 Mbit/s

95th percentile per-packet one-way delay: 164.256 ms

Loss rate: 1.86%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

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

End at: 2018-02-13 12:26:32

Below is generated by plot.py at 2018-02-13 16:33:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.13 Mbit/s

95th percentile per-packet one-way delay: 163.625 ms

Loss rate: 2.04%

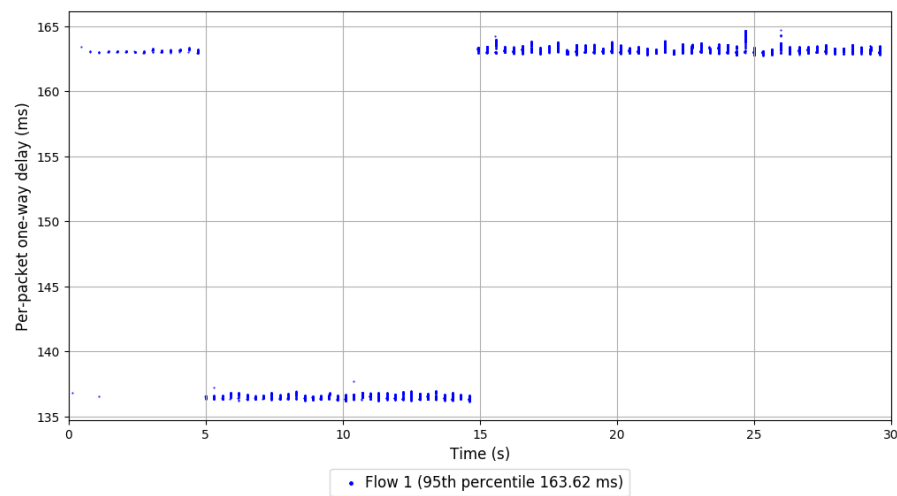
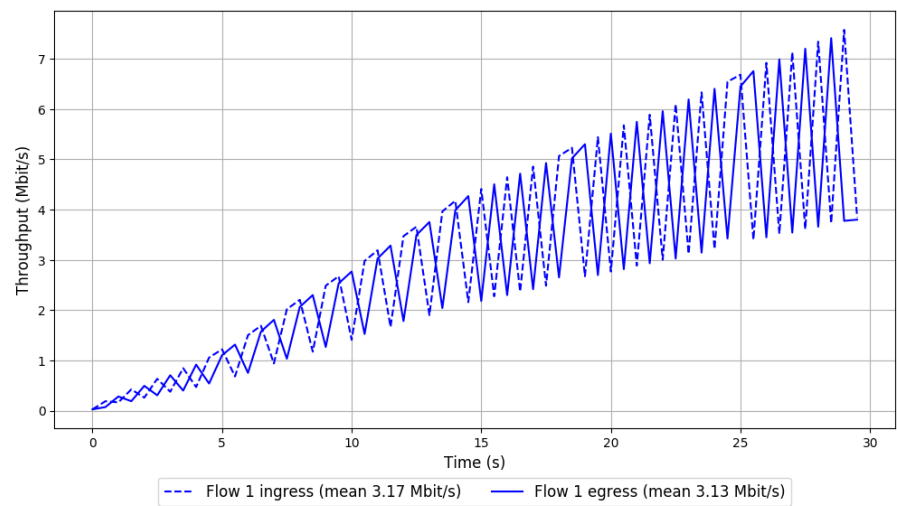
-- Flow 1:

Average throughput: 3.13 Mbit/s

95th percentile per-packet one-way delay: 163.625 ms

Loss rate: 2.04%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-13 12:41:58

End at: 2018-02-13 12:42:28

Below is generated by plot.py at 2018-02-13 16:33:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.77 Mbit/s

95th percentile per-packet one-way delay: 162.637 ms

Loss rate: 2.09%

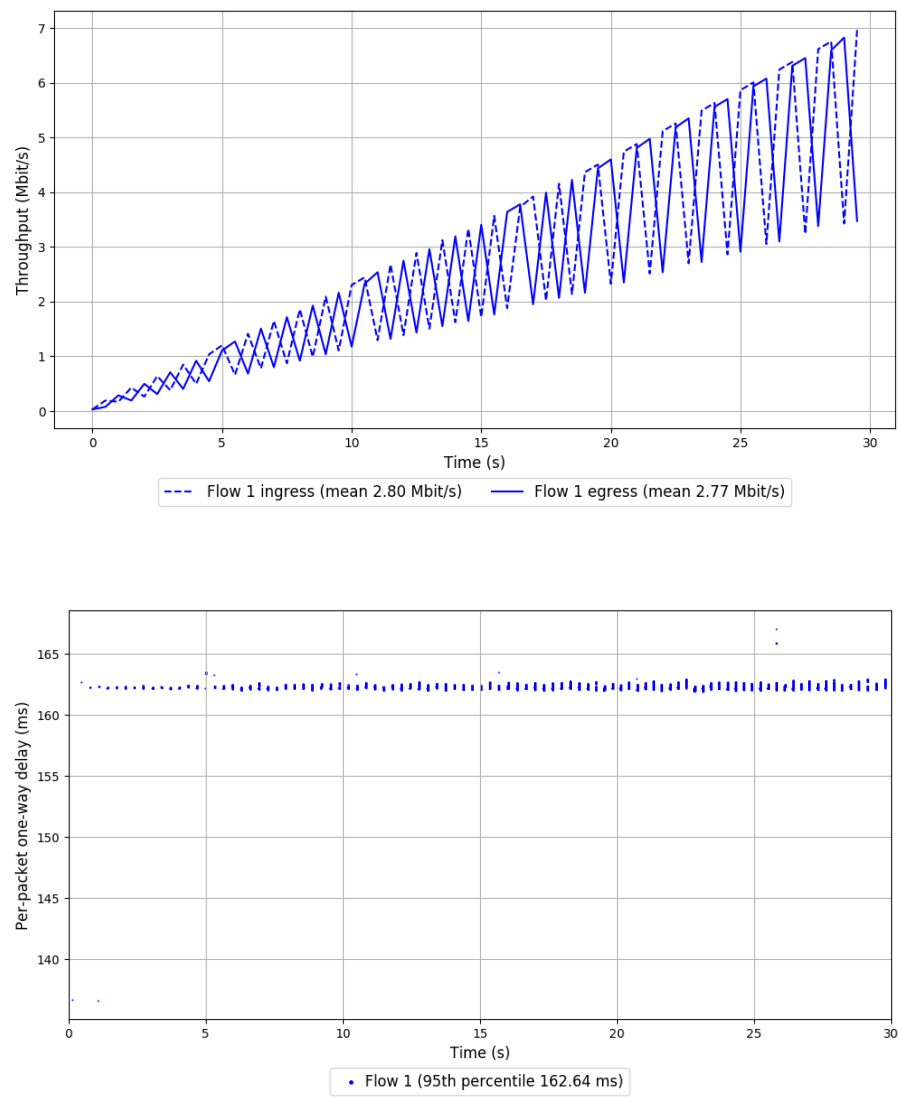
-- Flow 1:

Average throughput: 2.77 Mbit/s

95th percentile per-packet one-way delay: 162.637 ms

Loss rate: 2.09%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-13 12:57:07

End at: 2018-02-13 12:57:37

Below is generated by plot.py at 2018-02-13 16:33:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 162.950 ms

Loss rate: 1.28%

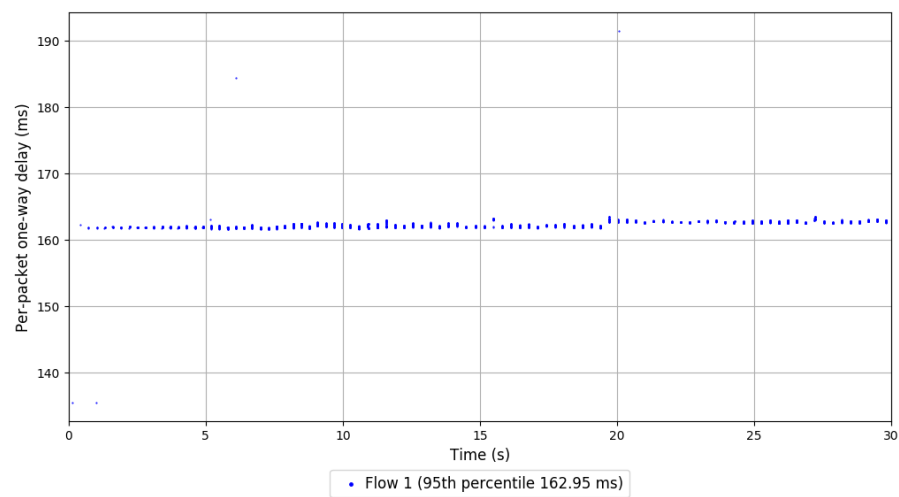
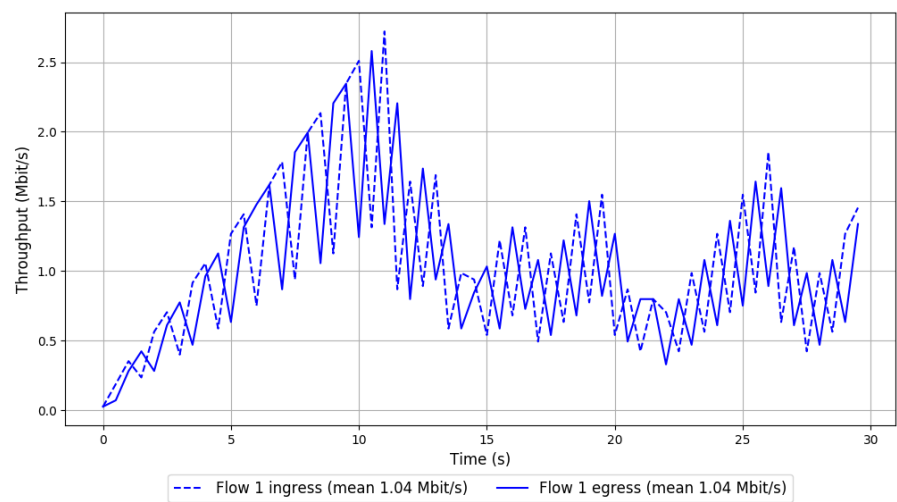
-- Flow 1:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 162.950 ms

Loss rate: 1.28%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-13 13:12:29

End at: 2018-02-13 13:12:59

Below is generated by plot.py at 2018-02-13 16:33:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.41 Mbit/s

95th percentile per-packet one-way delay: 162.700 ms

Loss rate: 2.07%

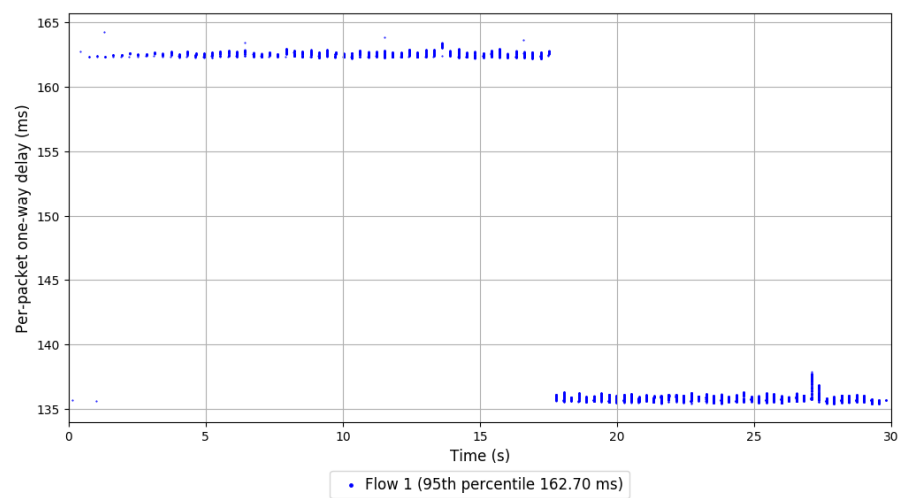
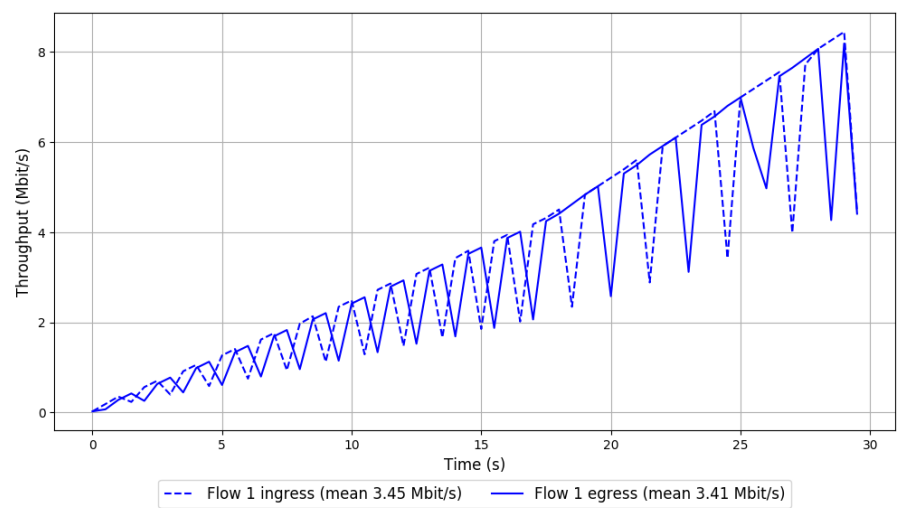
-- Flow 1:

Average throughput: 3.41 Mbit/s

95th percentile per-packet one-way delay: 162.700 ms

Loss rate: 2.07%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-13 13:27:49

End at: 2018-02-13 13:28:19

Below is generated by plot.py at 2018-02-13 16:33:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 136.813 ms

Loss rate: 1.05%

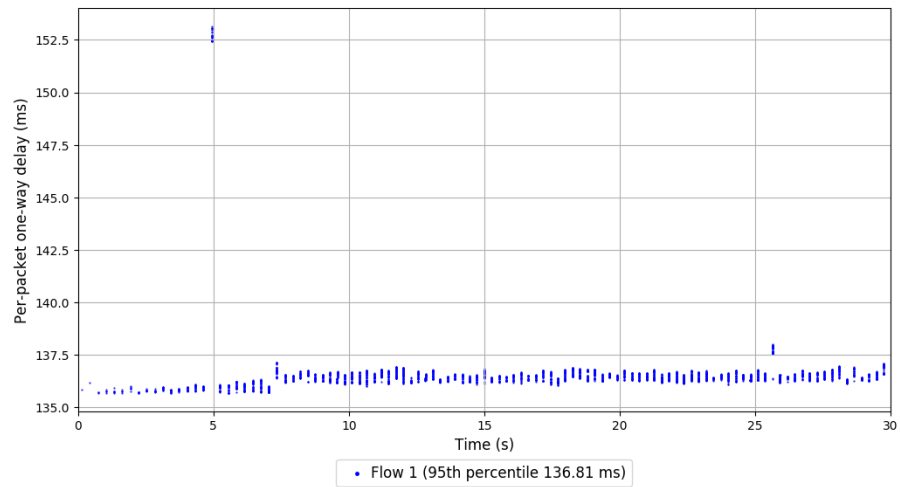
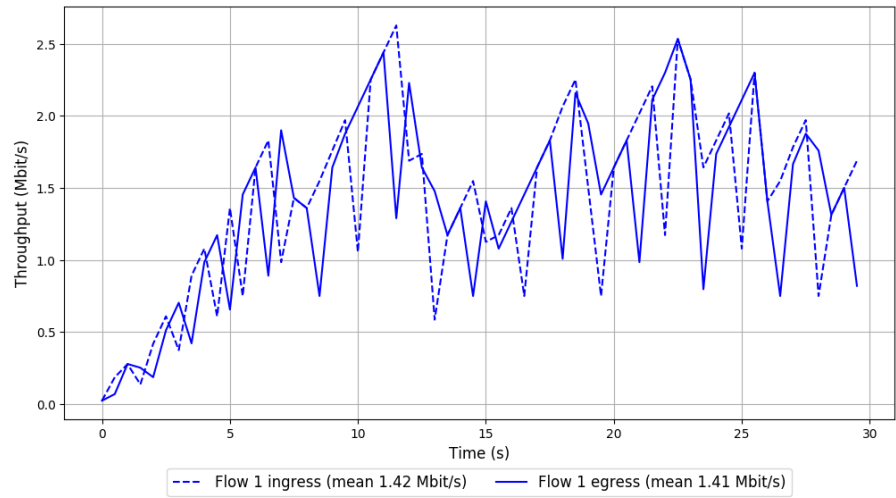
-- Flow 1:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 136.813 ms

Loss rate: 1.05%

Run 10: Report of LEDBAT — Data Link

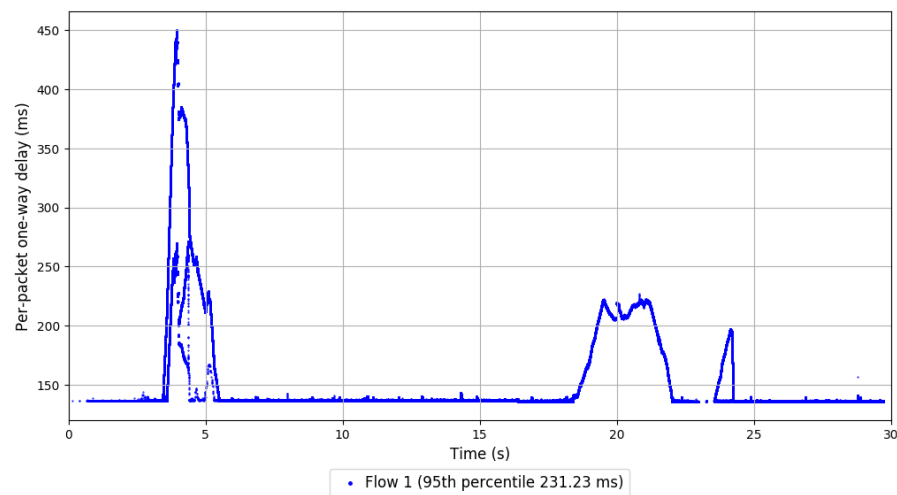
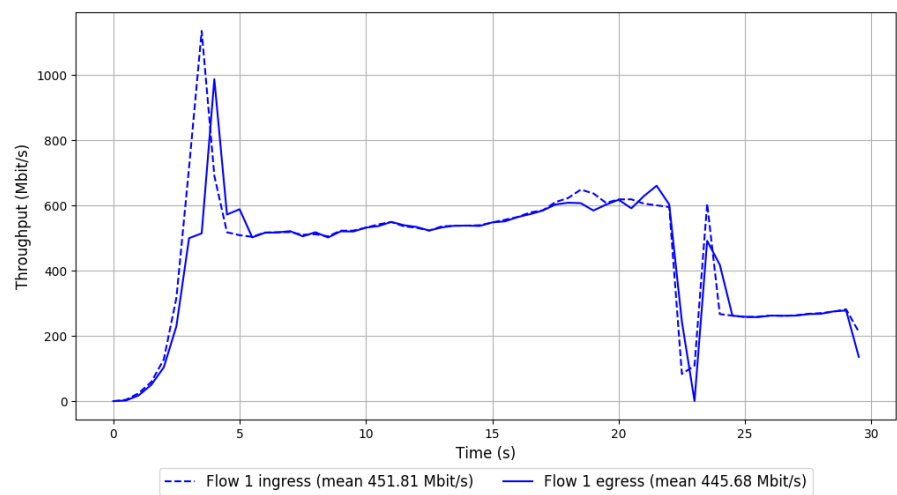


```
Run 1: Statistics of PCC

Start at: 2018-02-13 11:15:00
End at: 2018-02-13 11:15:30

# Below is generated by plot.py at 2018-02-13 16:41:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 445.68 Mbit/s
95th percentile per-packet one-way delay: 231.232 ms
Loss rate: 2.26%
-- Flow 1:
Average throughput: 445.68 Mbit/s
95th percentile per-packet one-way delay: 231.232 ms
Loss rate: 2.26%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-13 11:30:48

End at: 2018-02-13 11:31:18

Below is generated by plot.py at 2018-02-13 16:41:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 503.26 Mbit/s

95th percentile per-packet one-way delay: 259.320 ms

Loss rate: 2.77%

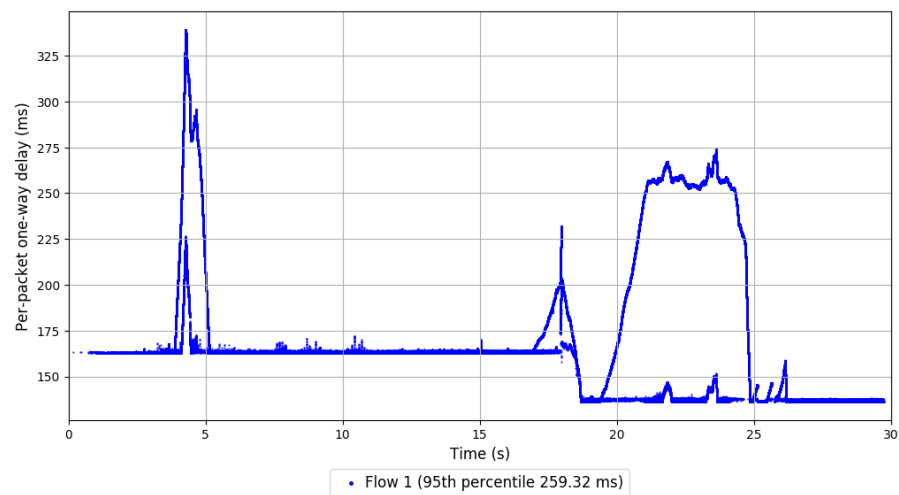
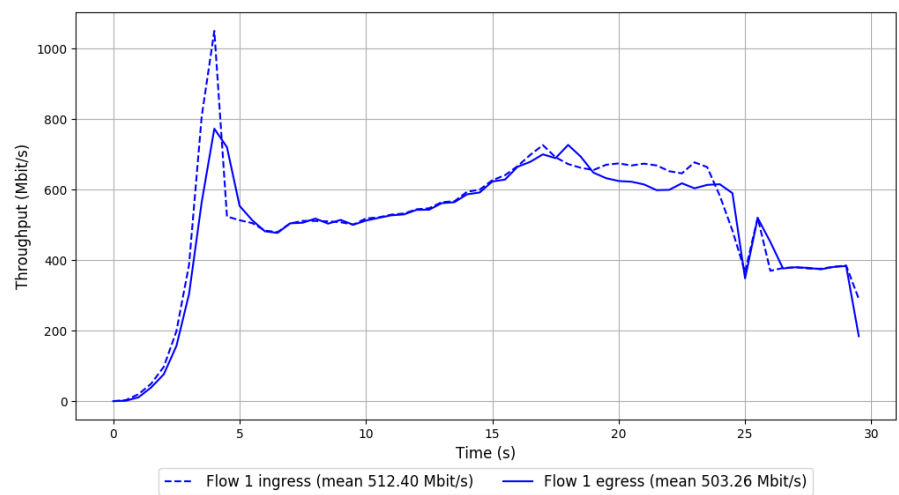
-- Flow 1:

Average throughput: 503.26 Mbit/s

95th percentile per-packet one-way delay: 259.320 ms

Loss rate: 2.77%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-13 11:46:26

End at: 2018-02-13 11:46:56

Below is generated by plot.py at 2018-02-13 16:41:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.00 Mbit/s

95th percentile per-packet one-way delay: 163.249 ms

Loss rate: 1.35%

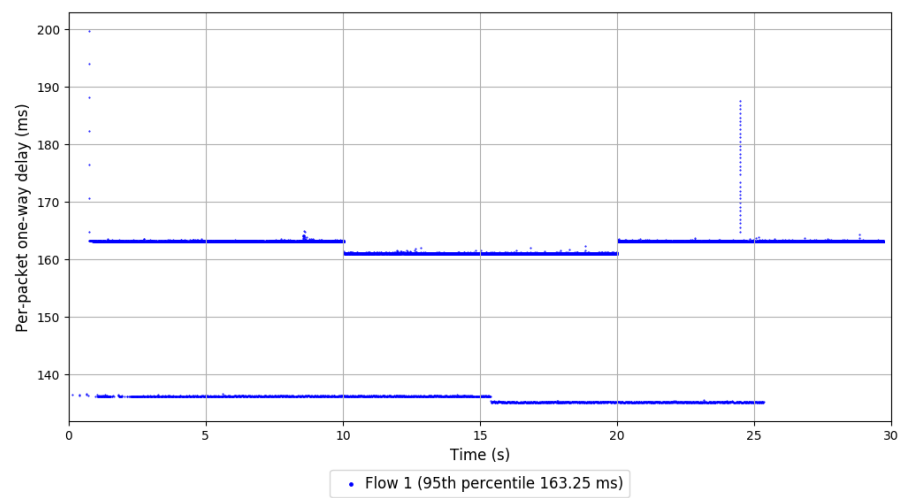
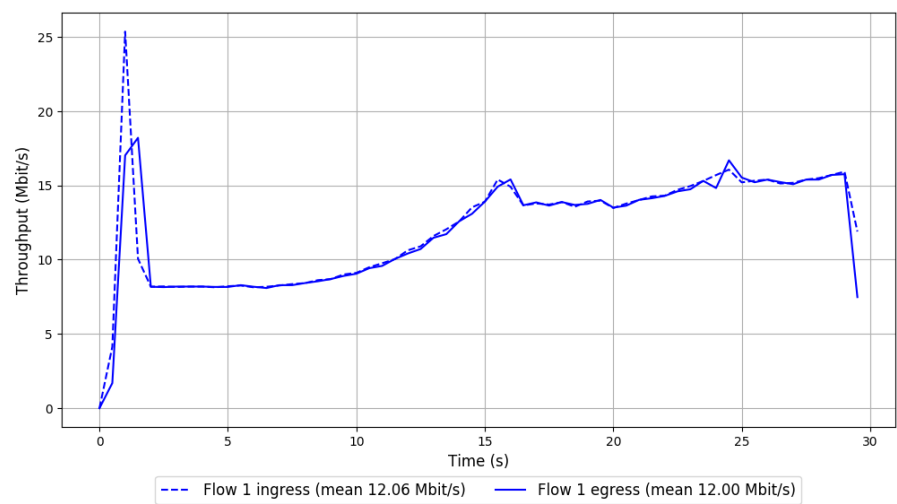
-- Flow 1:

Average throughput: 12.00 Mbit/s

95th percentile per-packet one-way delay: 163.249 ms

Loss rate: 1.35%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-13 12:02:01

End at: 2018-02-13 12:02:31

Below is generated by plot.py at 2018-02-13 16:41:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.94 Mbit/s

95th percentile per-packet one-way delay: 163.363 ms

Loss rate: 1.78%

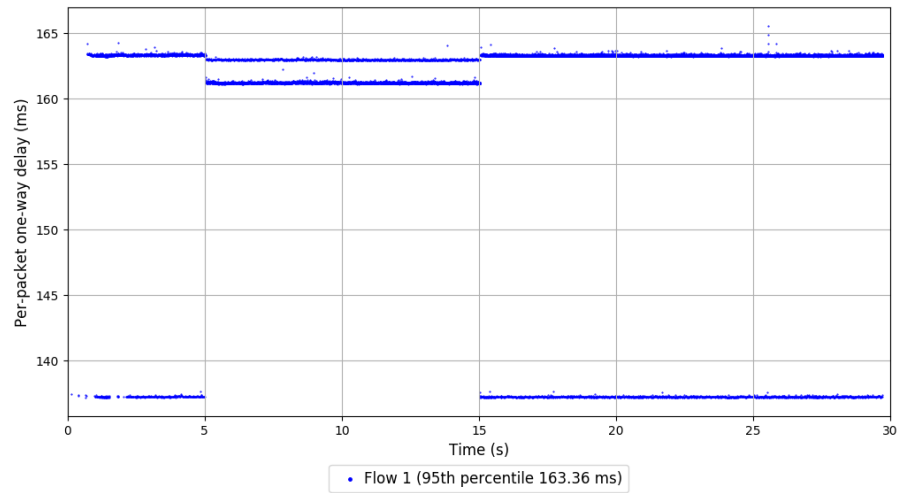
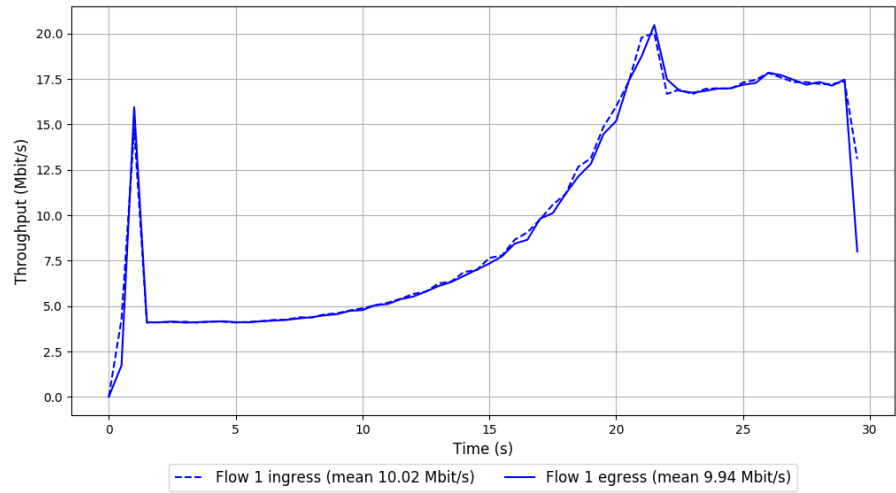
-- Flow 1:

Average throughput: 9.94 Mbit/s

95th percentile per-packet one-way delay: 163.363 ms

Loss rate: 1.78%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-13 12:17:17

End at: 2018-02-13 12:17:47

Below is generated by plot.py at 2018-02-13 16:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 535.59 Mbit/s

95th percentile per-packet one-way delay: 216.624 ms

Loss rate: 3.17%

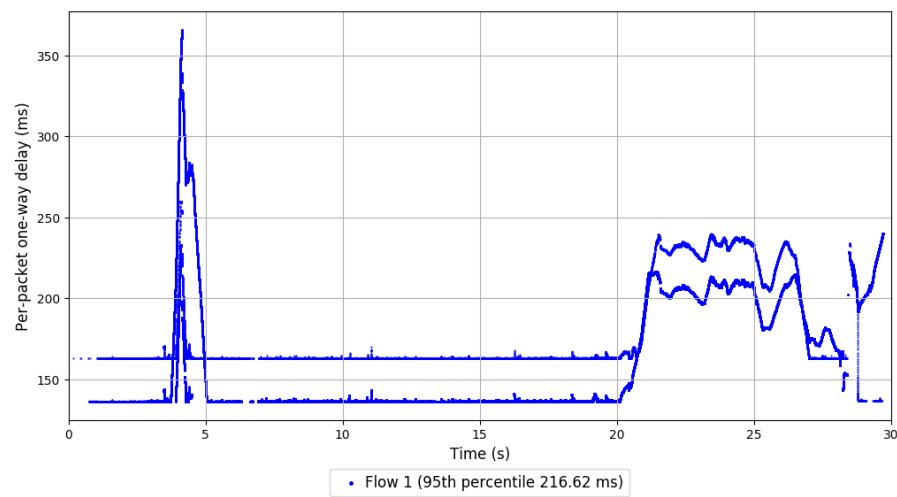
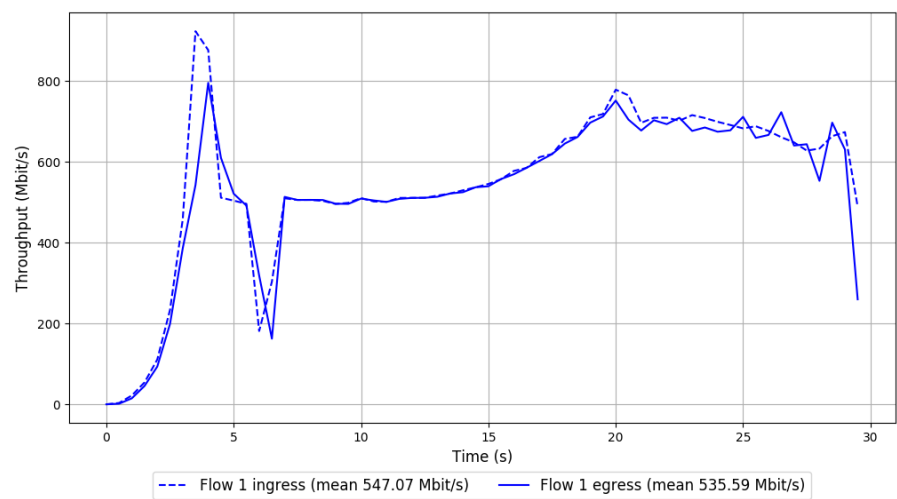
-- Flow 1:

Average throughput: 535.59 Mbit/s

95th percentile per-packet one-way delay: 216.624 ms

Loss rate: 3.17%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-13 12:33:19

End at: 2018-02-13 12:33:49

Below is generated by plot.py at 2018-02-13 16:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 501.68 Mbit/s

95th percentile per-packet one-way delay: 204.092 ms

Loss rate: 2.83%

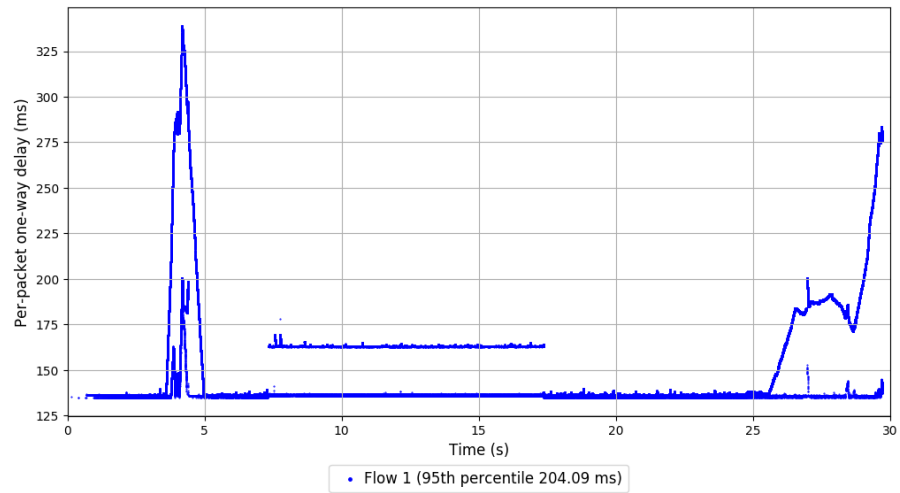
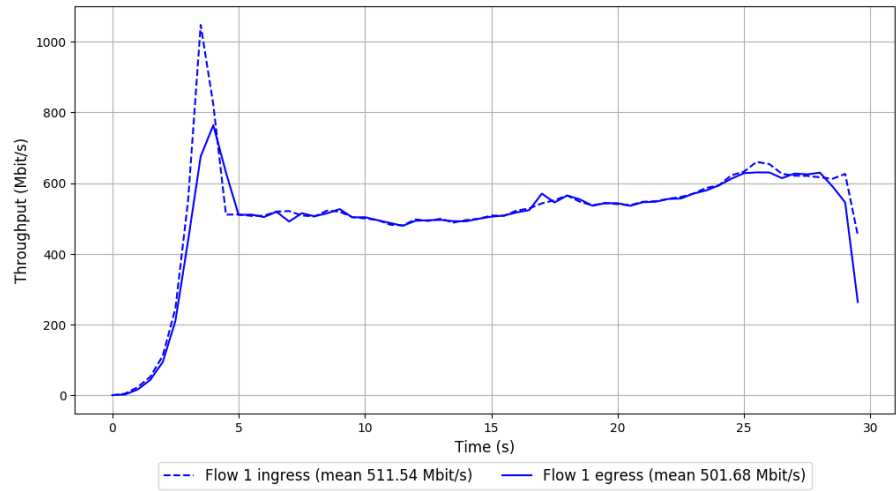
-- Flow 1:

Average throughput: 501.68 Mbit/s

95th percentile per-packet one-way delay: 204.092 ms

Loss rate: 2.83%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-13 12:48:52

End at: 2018-02-13 12:49:22

Below is generated by plot.py at 2018-02-13 16:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.59 Mbit/s

95th percentile per-packet one-way delay: 162.546 ms

Loss rate: 1.42%

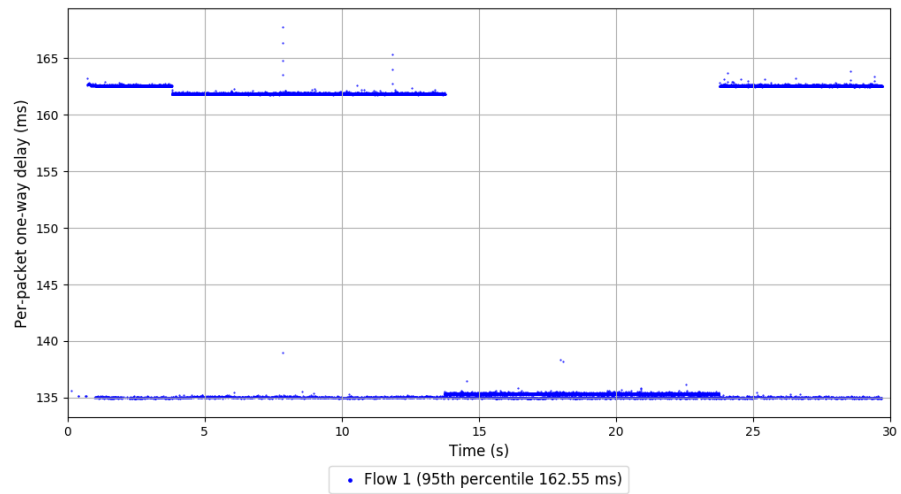
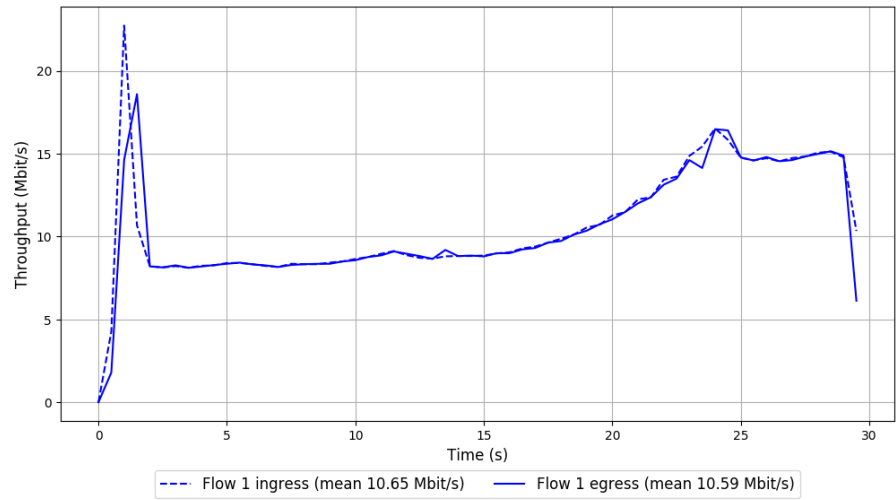
-- Flow 1:

Average throughput: 10.59 Mbit/s

95th percentile per-packet one-way delay: 162.546 ms

Loss rate: 1.42%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

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

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

Below is generated by plot.py at 2018-02-13 16:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.76 Mbit/s

95th percentile per-packet one-way delay: 162.351 ms

Loss rate: 1.05%

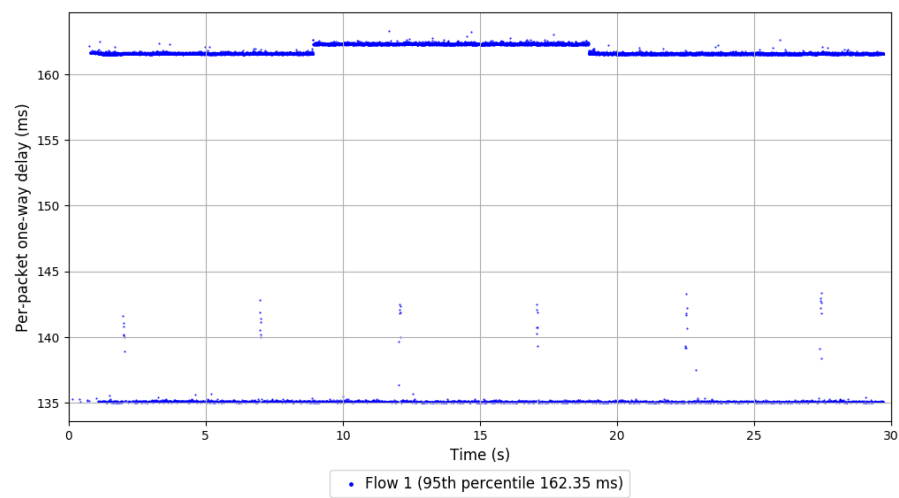
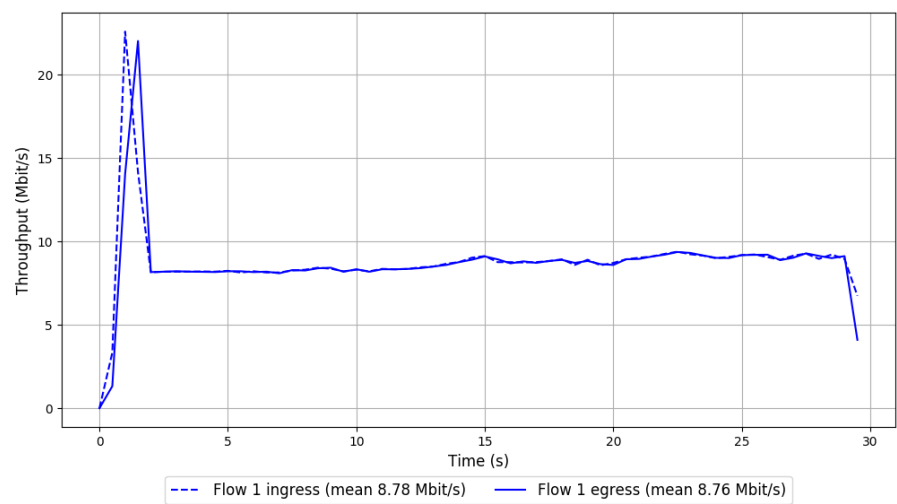
-- Flow 1:

Average throughput: 8.76 Mbit/s

95th percentile per-packet one-way delay: 162.351 ms

Loss rate: 1.05%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

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

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

Below is generated by plot.py at 2018-02-13 16:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.98 Mbit/s

95th percentile per-packet one-way delay: 162.499 ms

Loss rate: 1.10%

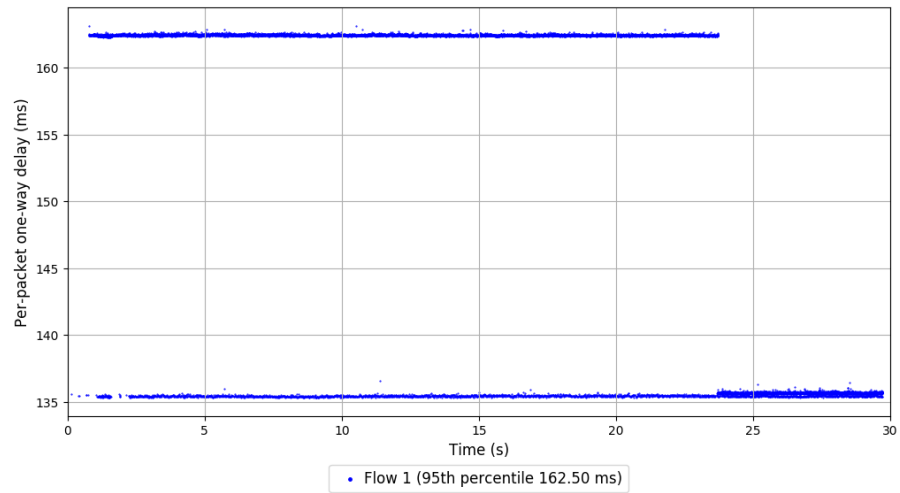
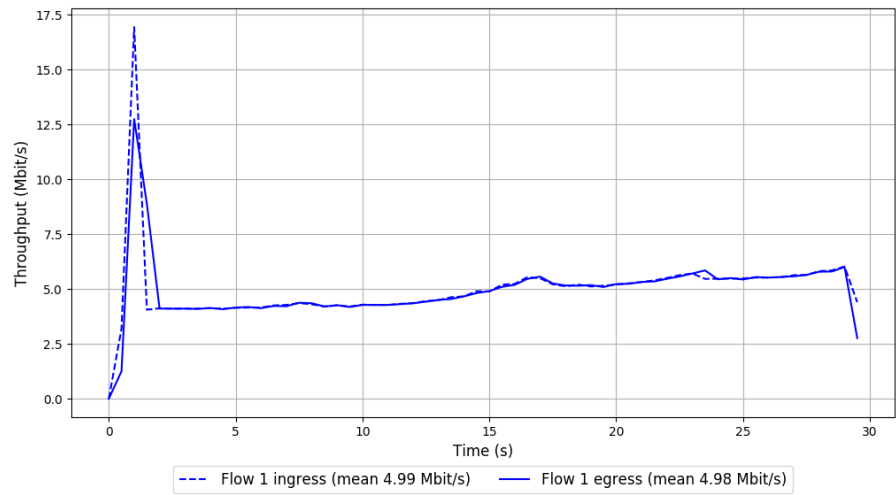
-- Flow 1:

Average throughput: 4.98 Mbit/s

95th percentile per-packet one-way delay: 162.499 ms

Loss rate: 1.10%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-13 13:34:49

End at: 2018-02-13 13:35:19

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 554.01 Mbit/s

95th percentile per-packet one-way delay: 242.444 ms

Loss rate: 2.90%

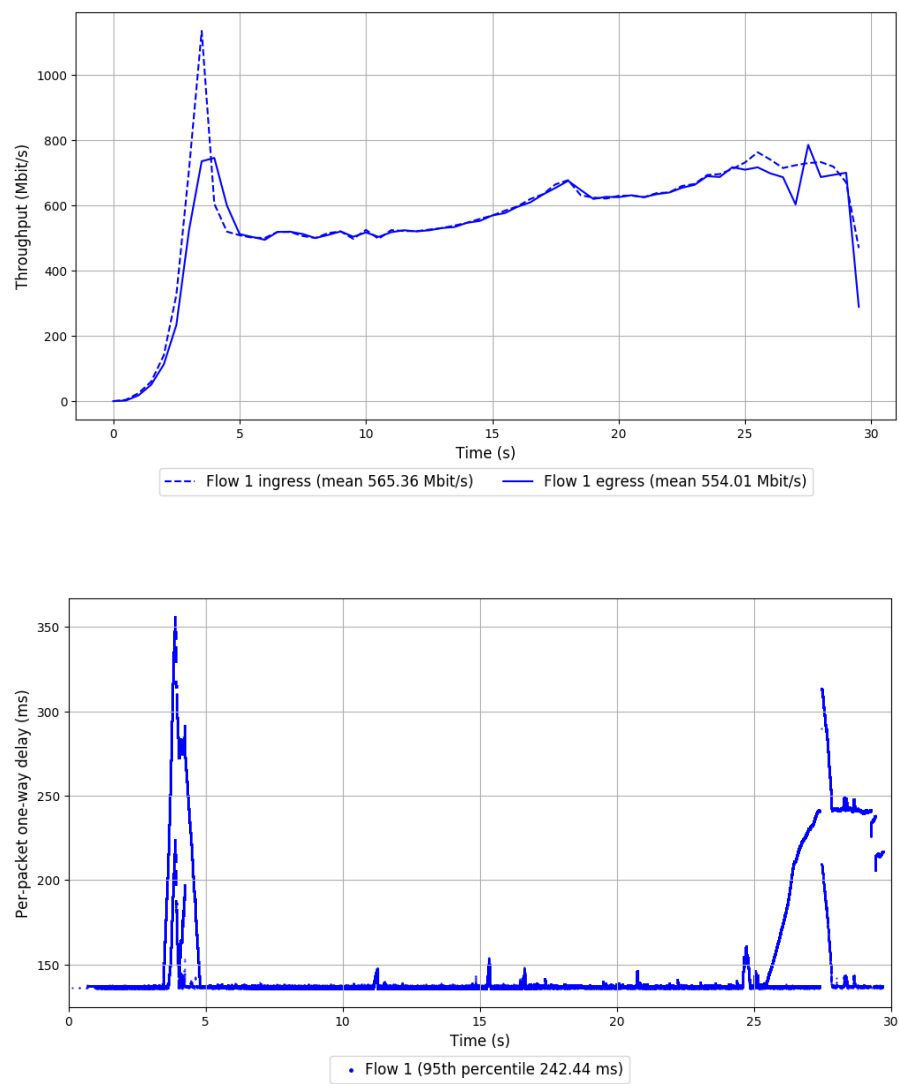
-- Flow 1:

Average throughput: 554.01 Mbit/s

95th percentile per-packet one-way delay: 242.444 ms

Loss rate: 2.90%

Run 10: Report of PCC — Data Link

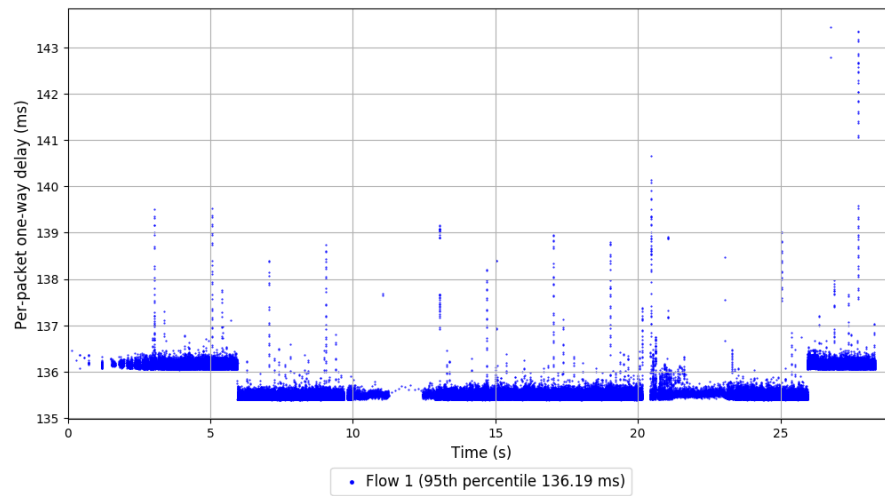
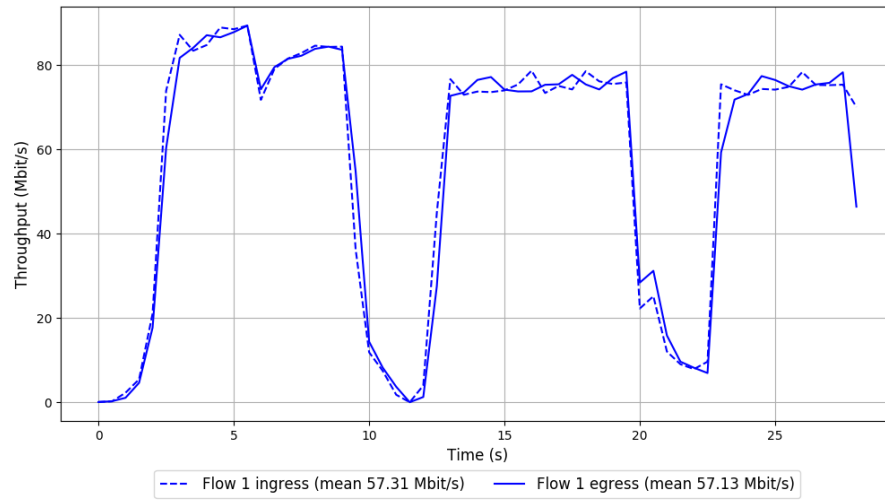


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-13 11:11:24
End at: 2018-02-13 11:11:54

# Below is generated by plot.py at 2018-02-13 16:43:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.13 Mbit/s
95th percentile per-packet one-way delay: 136.192 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 57.13 Mbit/s
95th percentile per-packet one-way delay: 136.192 ms
Loss rate: 1.28%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-13 11:27:24

End at: 2018-02-13 11:27:54

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.87 Mbit/s

95th percentile per-packet one-way delay: 136.138 ms

Loss rate: 1.13%

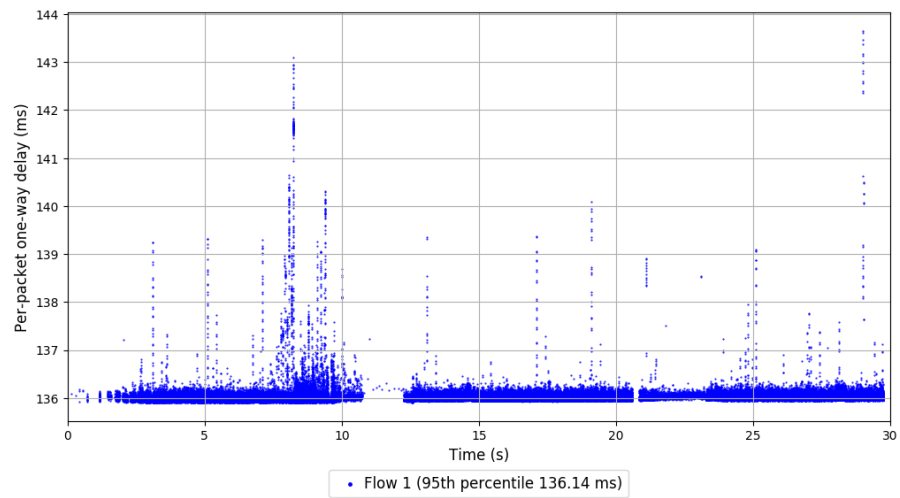
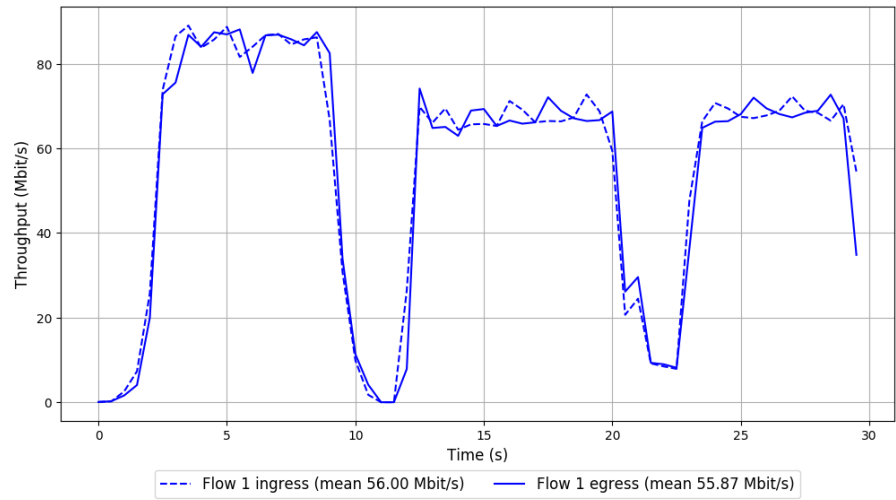
-- Flow 1:

Average throughput: 55.87 Mbit/s

95th percentile per-packet one-way delay: 136.138 ms

Loss rate: 1.13%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-13 11:42:55

End at: 2018-02-13 11:43:25

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.27 Mbit/s

95th percentile per-packet one-way delay: 162.916 ms

Loss rate: 1.74%

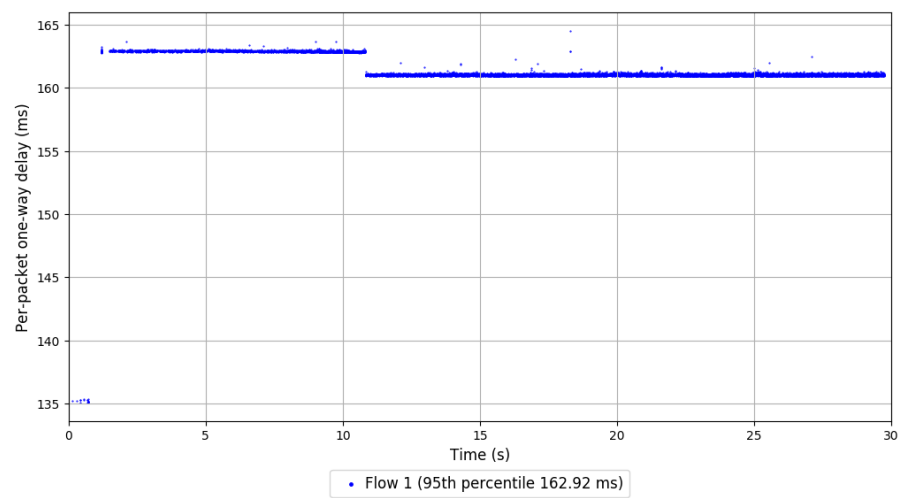
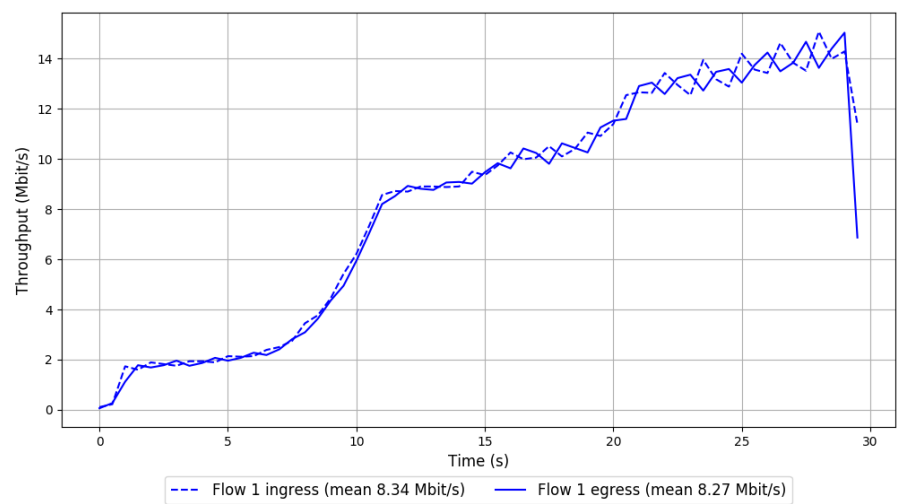
-- Flow 1:

Average throughput: 8.27 Mbit/s

95th percentile per-packet one-way delay: 162.916 ms

Loss rate: 1.74%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-13 11:58:27

End at: 2018-02-13 11:58:57

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.94 Mbit/s

95th percentile per-packet one-way delay: 136.177 ms

Loss rate: 1.25%

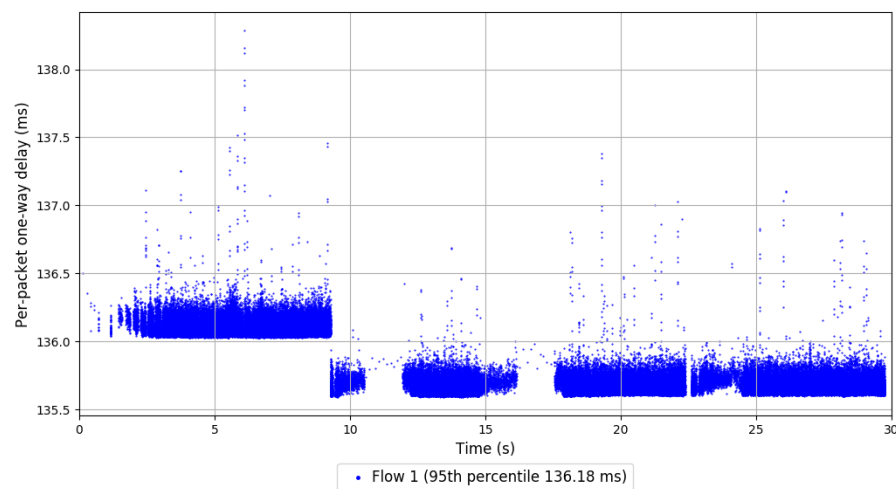
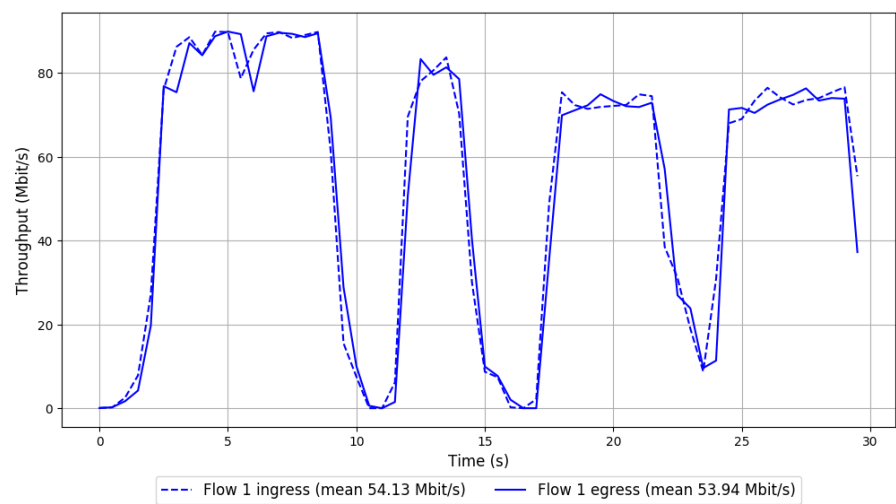
-- Flow 1:

Average throughput: 53.94 Mbit/s

95th percentile per-packet one-way delay: 136.177 ms

Loss rate: 1.25%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-13 12:14:01

End at: 2018-02-13 12:14:31

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.51 Mbit/s

95th percentile per-packet one-way delay: 163.266 ms

Loss rate: 1.11%

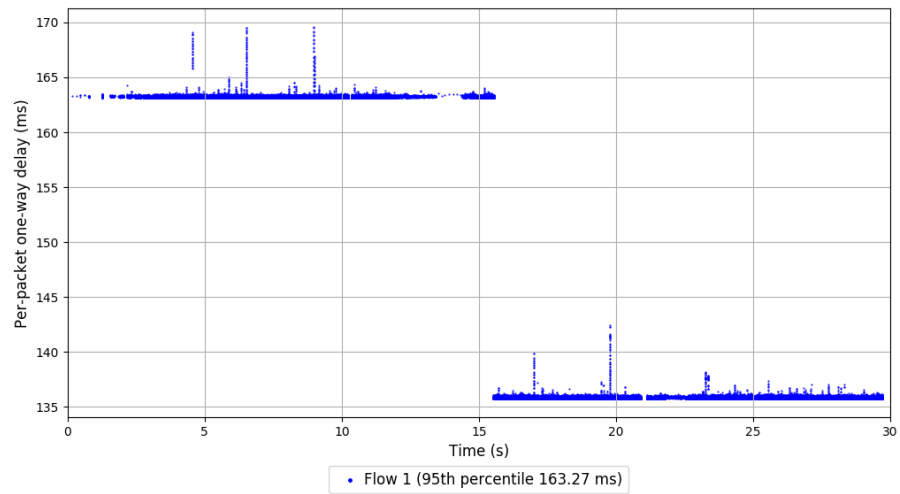
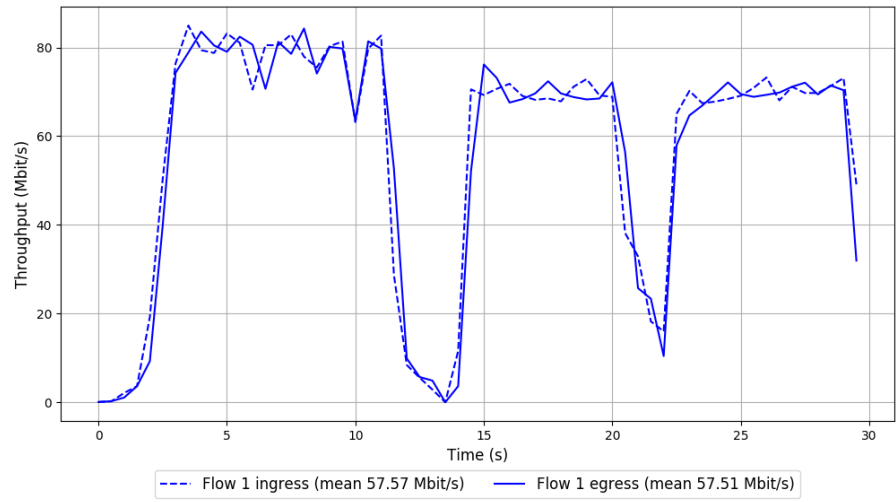
-- Flow 1:

Average throughput: 57.51 Mbit/s

95th percentile per-packet one-way delay: 163.266 ms

Loss rate: 1.11%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-13 12:29:51

End at: 2018-02-13 12:30:21

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.67 Mbit/s

95th percentile per-packet one-way delay: 135.773 ms

Loss rate: 1.15%

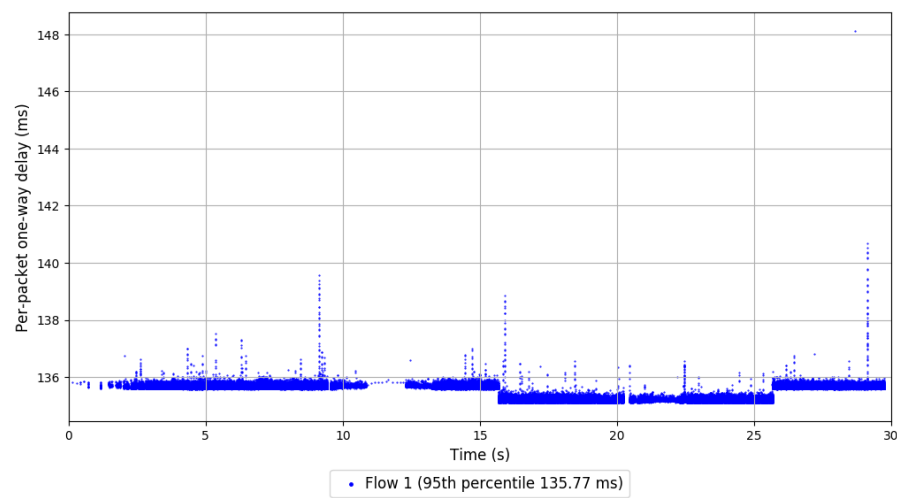
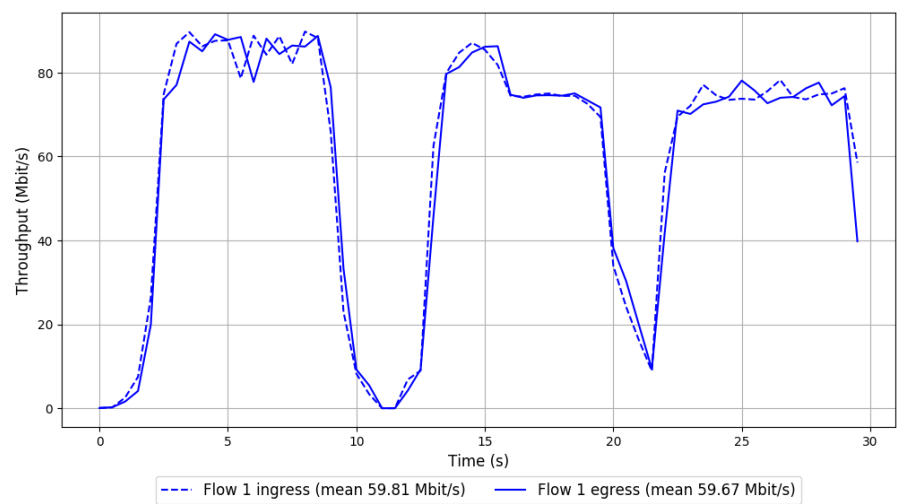
-- Flow 1:

Average throughput: 59.67 Mbit/s

95th percentile per-packet one-way delay: 135.773 ms

Loss rate: 1.15%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-13 12:45:28

End at: 2018-02-13 12:45:58

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.23 Mbit/s

95th percentile per-packet one-way delay: 134.767 ms

Loss rate: 1.20%

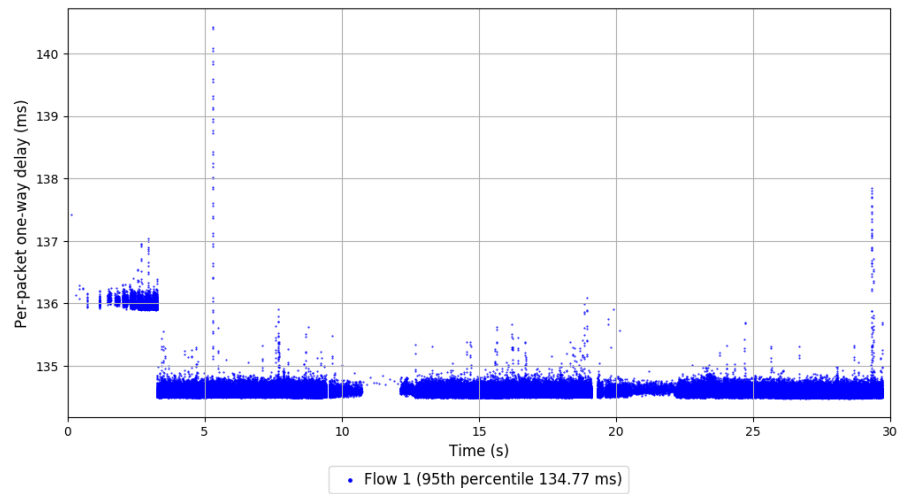
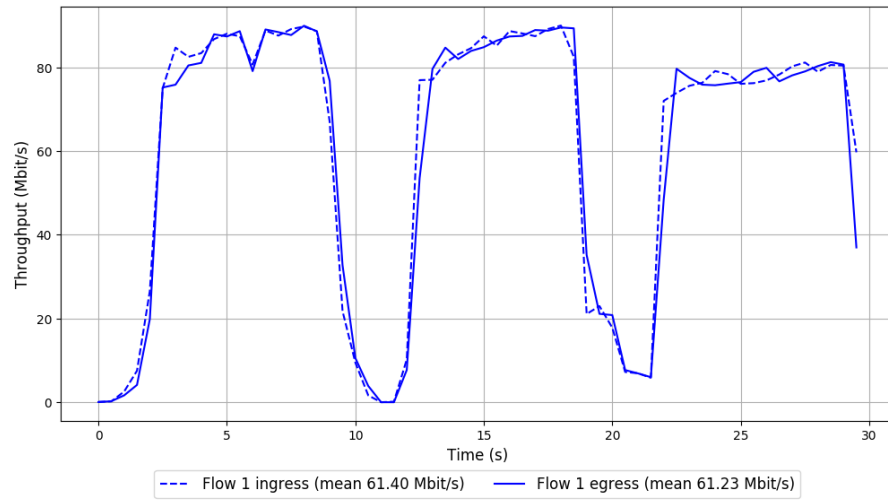
-- Flow 1:

Average throughput: 61.23 Mbit/s

95th percentile per-packet one-way delay: 134.767 ms

Loss rate: 1.20%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-13 13:00:42

End at: 2018-02-13 13:01:12

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.62 Mbit/s

95th percentile per-packet one-way delay: 136.551 ms

Loss rate: 1.18%

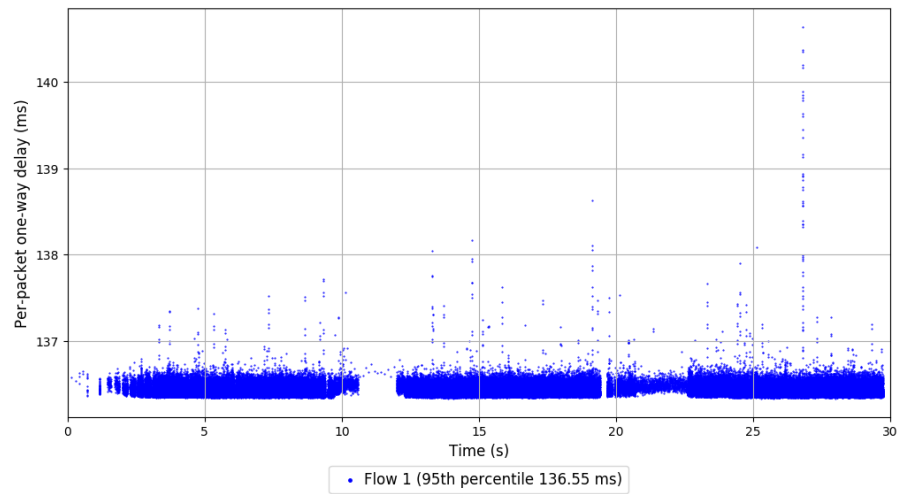
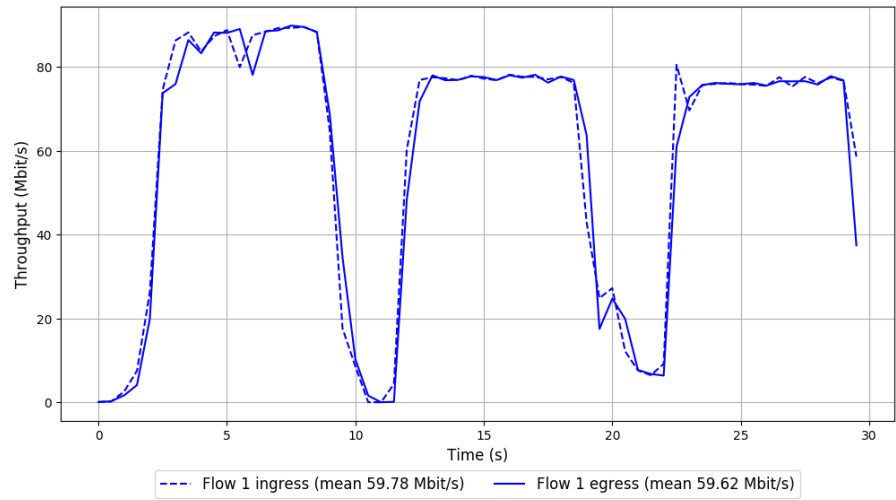
-- Flow 1:

Average throughput: 59.62 Mbit/s

95th percentile per-packet one-way delay: 136.551 ms

Loss rate: 1.18%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

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

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

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.19 Mbit/s

95th percentile per-packet one-way delay: 135.562 ms

Loss rate: 1.30%

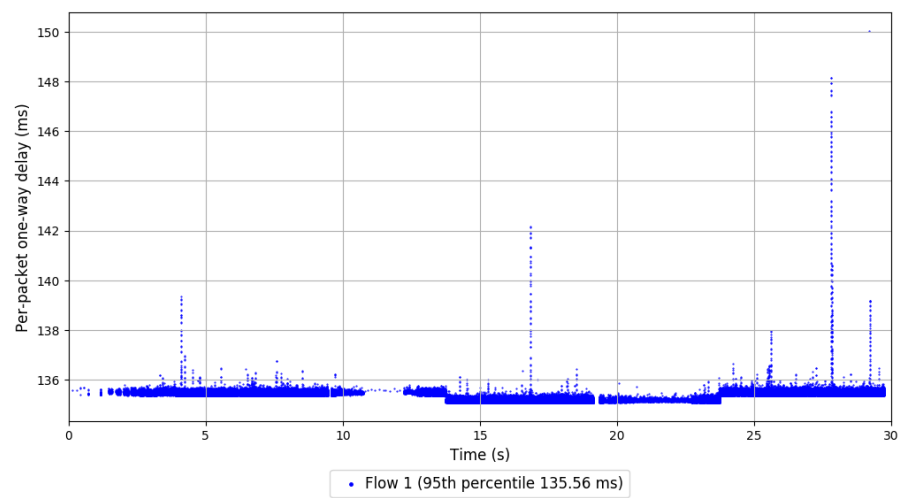
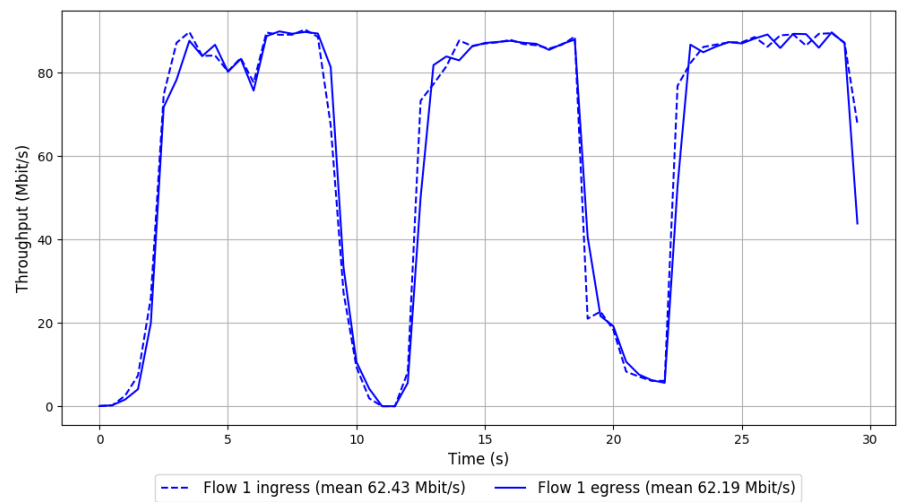
-- Flow 1:

Average throughput: 62.19 Mbit/s

95th percentile per-packet one-way delay: 135.562 ms

Loss rate: 1.30%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-13 13:31:26

End at: 2018-02-13 13:31:56

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.30 Mbit/s

95th percentile per-packet one-way delay: 136.028 ms

Loss rate: 1.52%

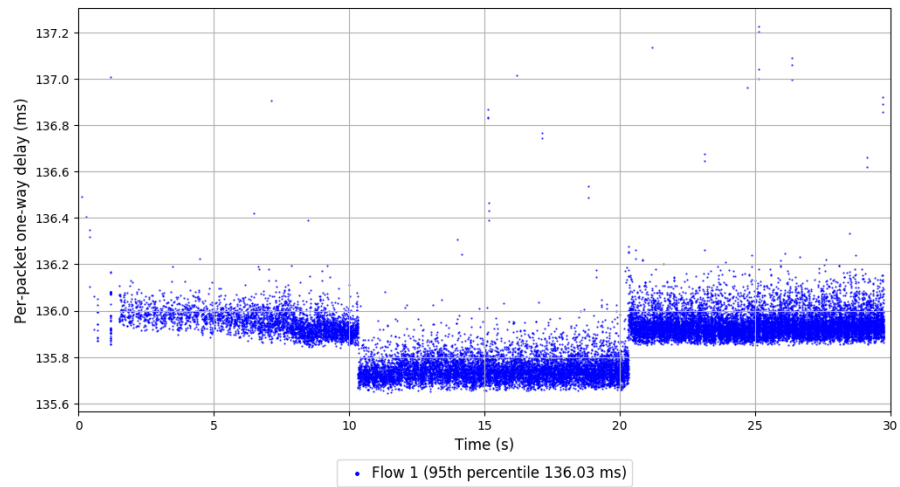
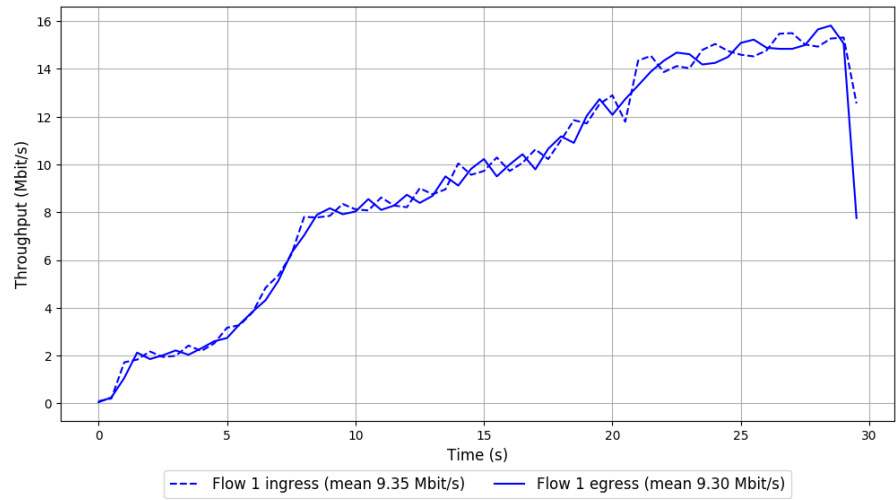
-- Flow 1:

Average throughput: 9.30 Mbit/s

95th percentile per-packet one-way delay: 136.028 ms

Loss rate: 1.52%

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2018-02-13 11:09:49

End at: 2018-02-13 11:10:19

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.77%

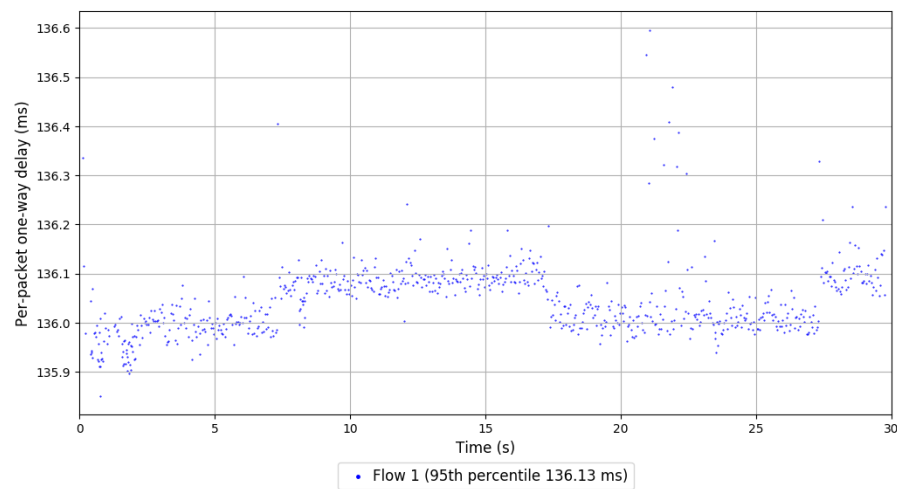
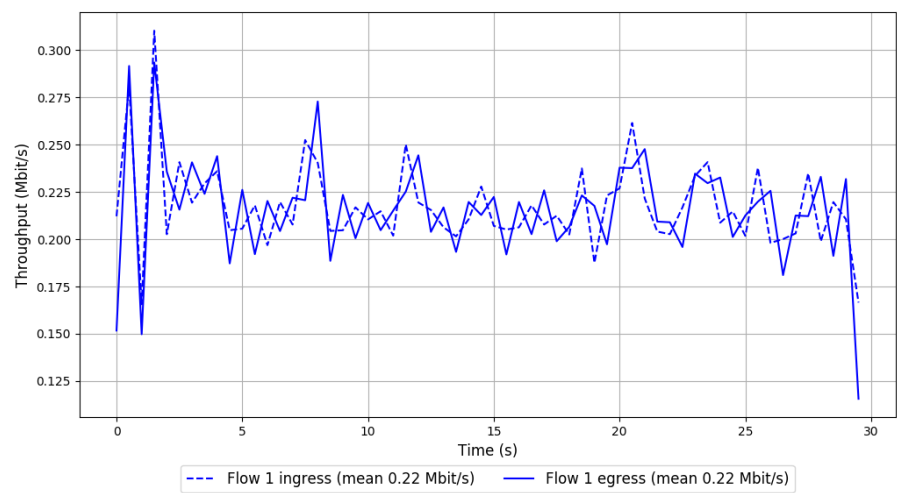
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.77%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-02-13 11:25:53

End at: 2018-02-13 11:26:23

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.709 ms

Loss rate: 0.90%

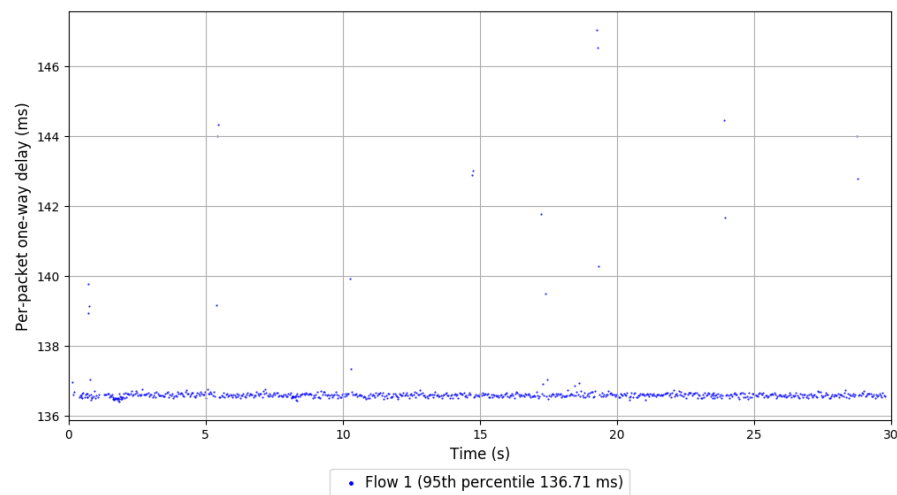
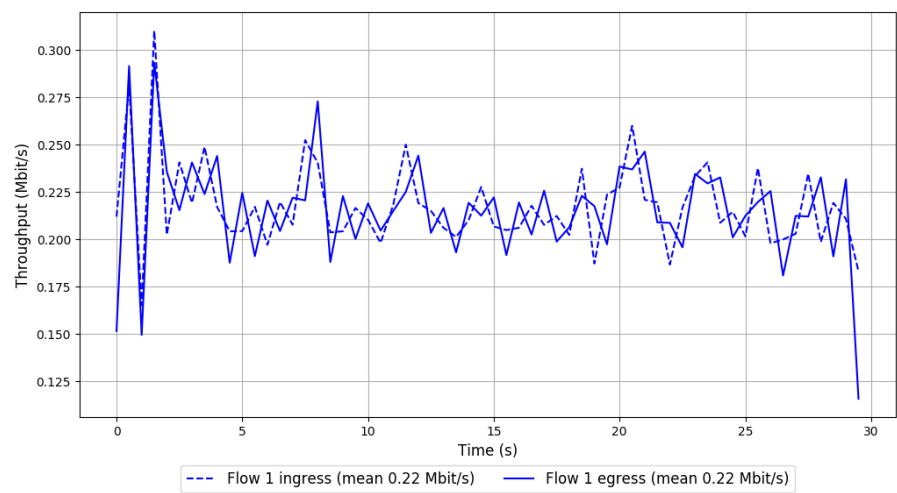
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.709 ms

Loss rate: 0.90%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-13 11:41:17

End at: 2018-02-13 11:41:47

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 163.332 ms

Loss rate: 0.66%

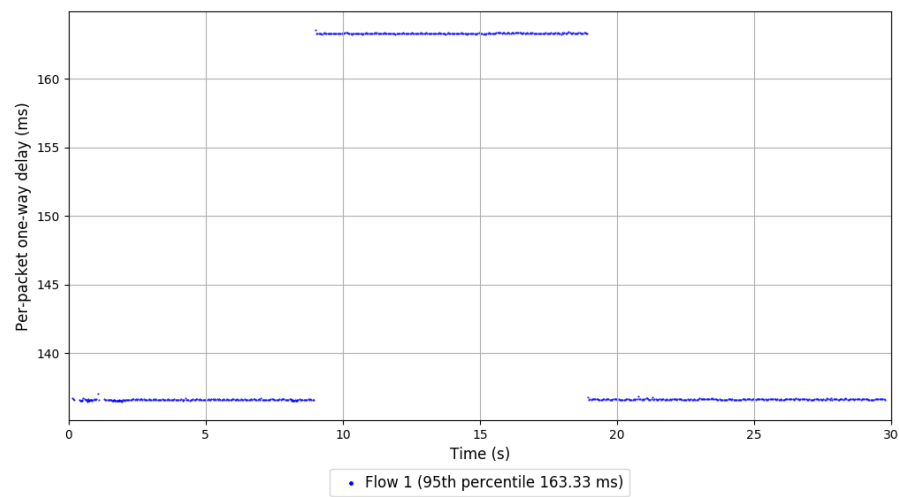
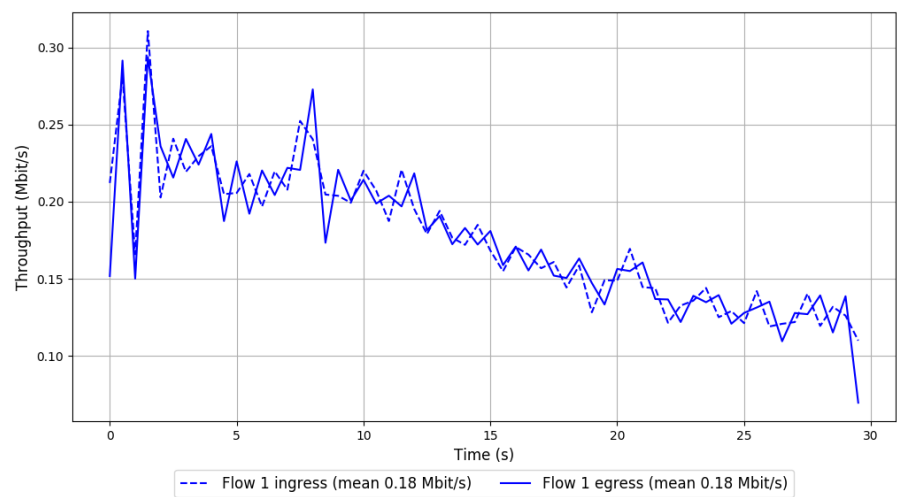
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 163.332 ms

Loss rate: 0.66%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-02-13 11:56:49

End at: 2018-02-13 11:57:19

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.268 ms

Loss rate: 0.89%

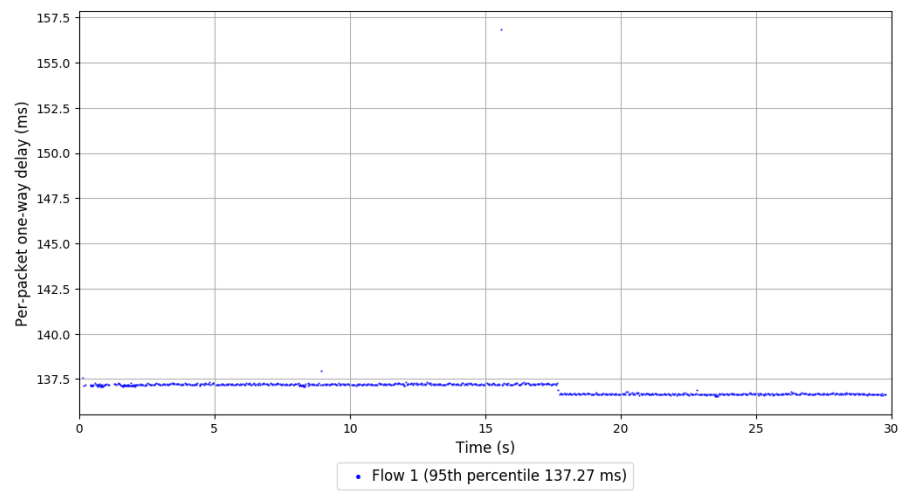
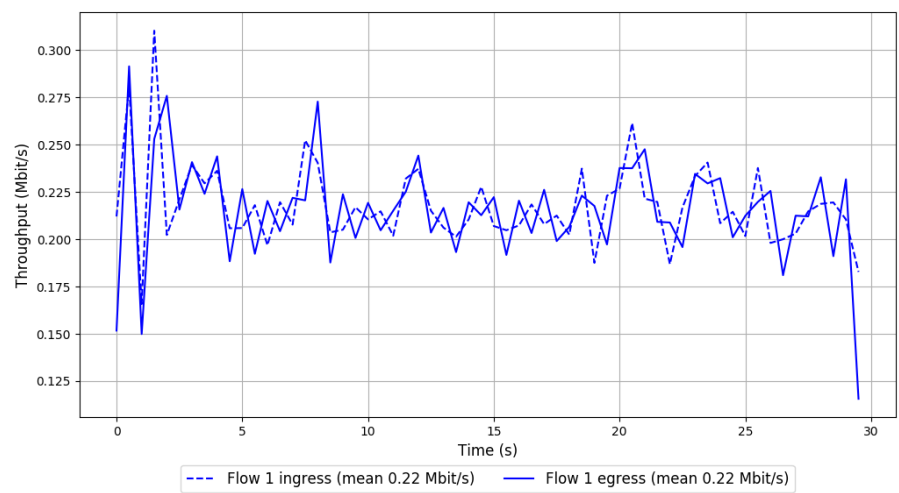
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.268 ms

Loss rate: 0.89%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-13 12:12:20

End at: 2018-02-13 12:12:50

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.878 ms

Loss rate: 0.89%

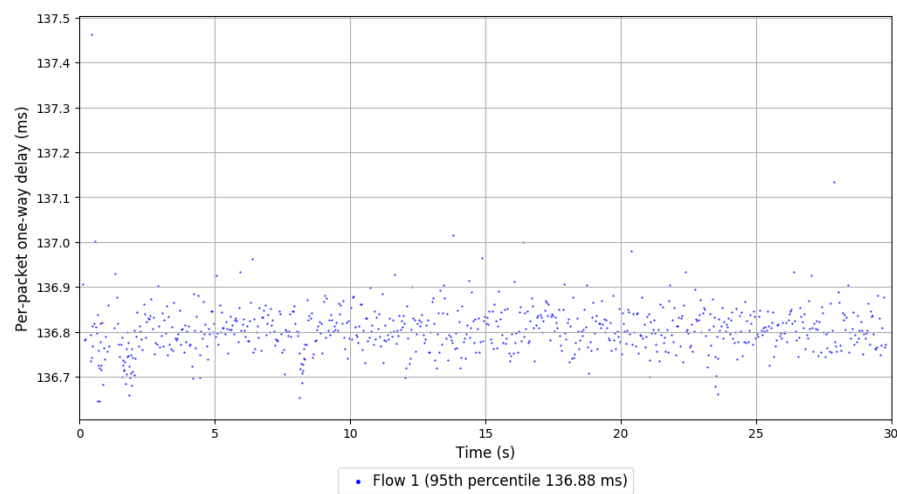
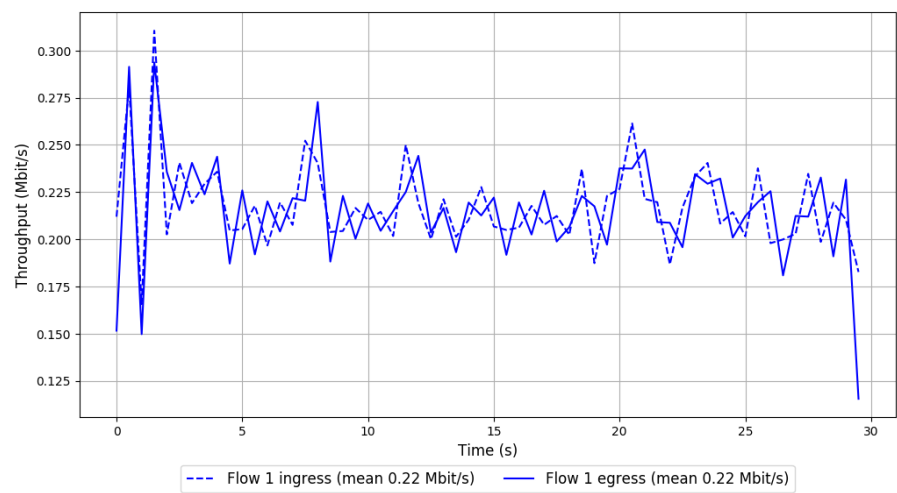
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.878 ms

Loss rate: 0.89%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-13 12:28:04

End at: 2018-02-13 12:28:34

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 137.002 ms

Loss rate: 0.90%

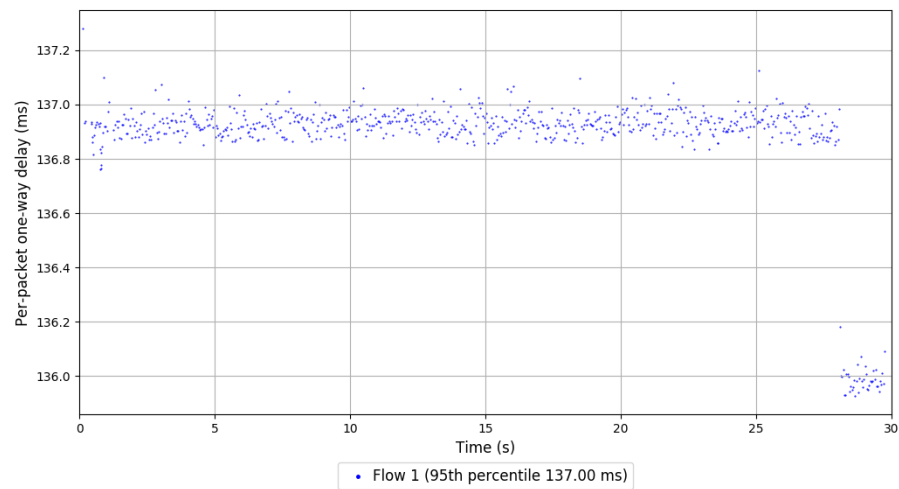
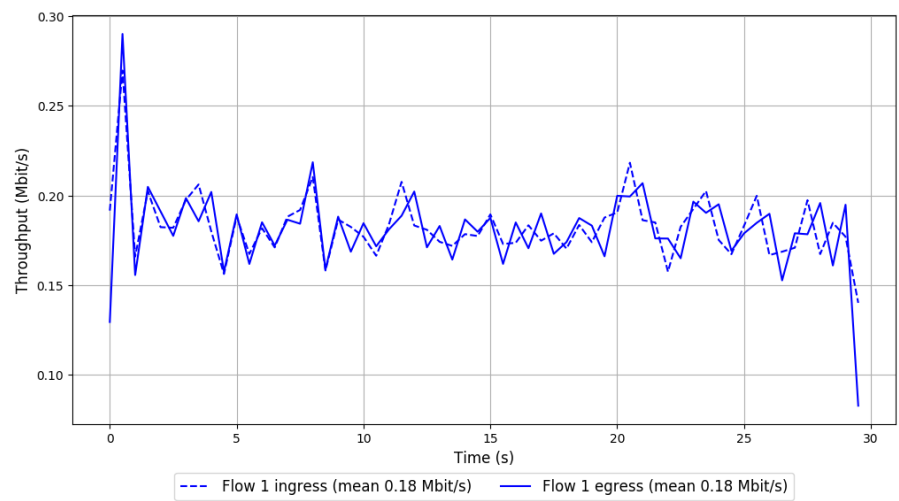
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 137.002 ms

Loss rate: 0.90%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-13 12:43:58

End at: 2018-02-13 12:44:28

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.20 Mbit/s

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

Loss rate: 0.89%

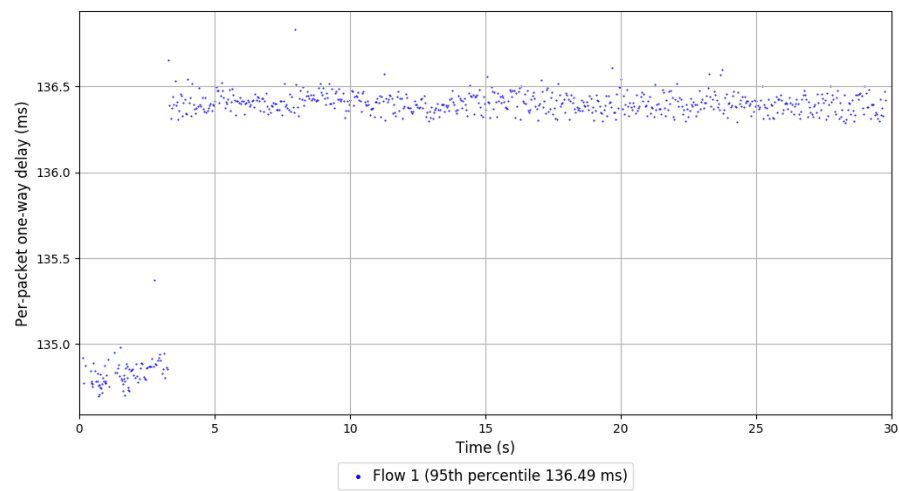
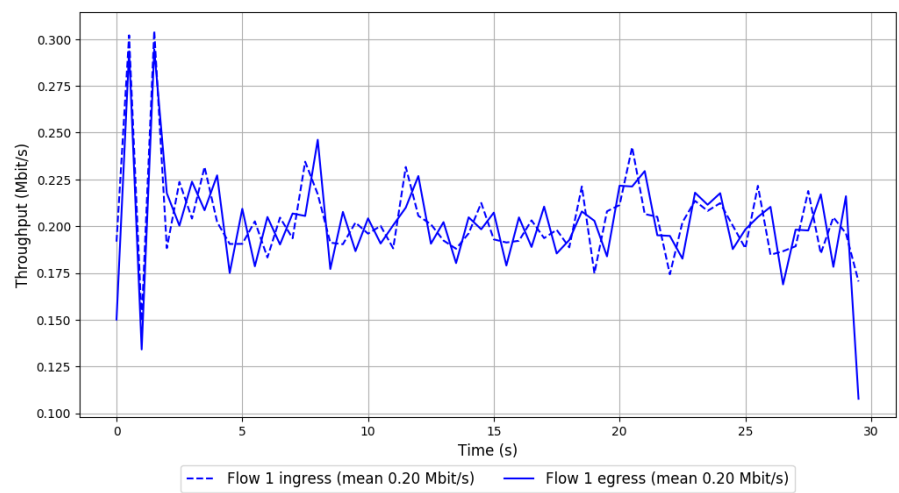
-- Flow 1:

Average throughput: 0.20 Mbit/s

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

Loss rate: 0.89%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-13 12:59:07

End at: 2018-02-13 12:59:37

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 162.688 ms

Loss rate: 0.86%

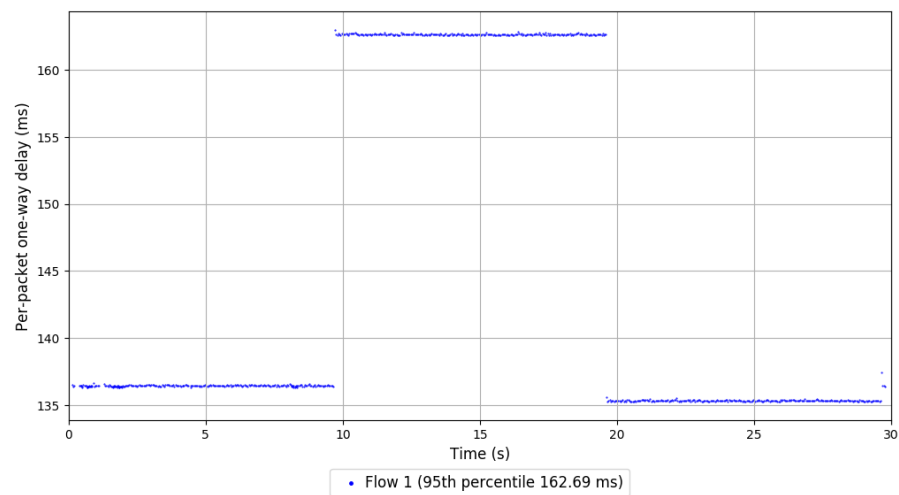
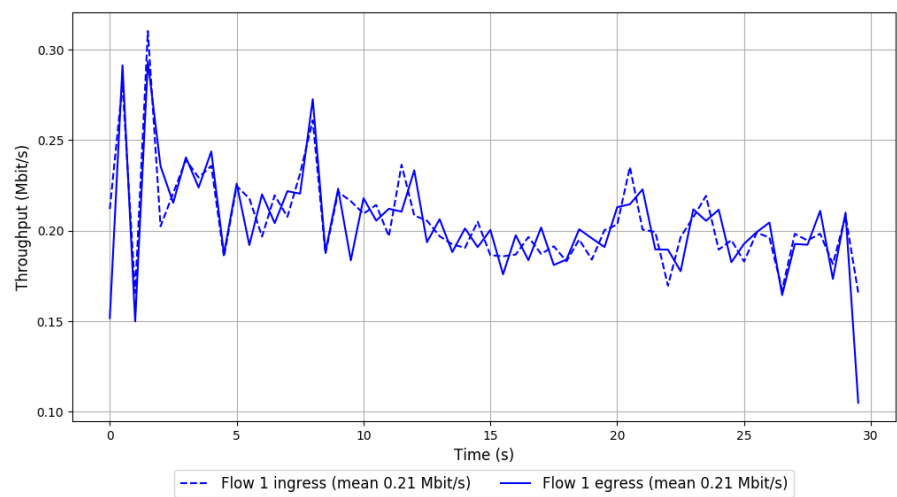
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 162.688 ms

Loss rate: 0.86%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

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

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

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.447 ms

Loss rate: 1.03%

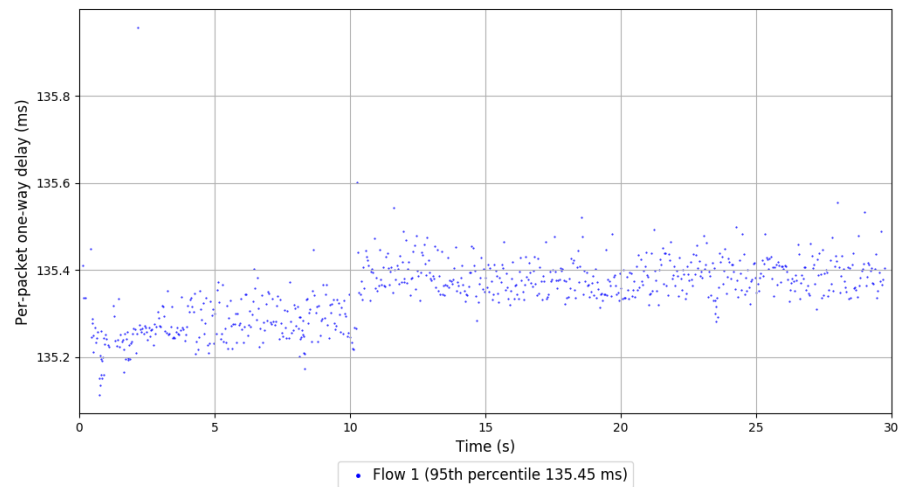
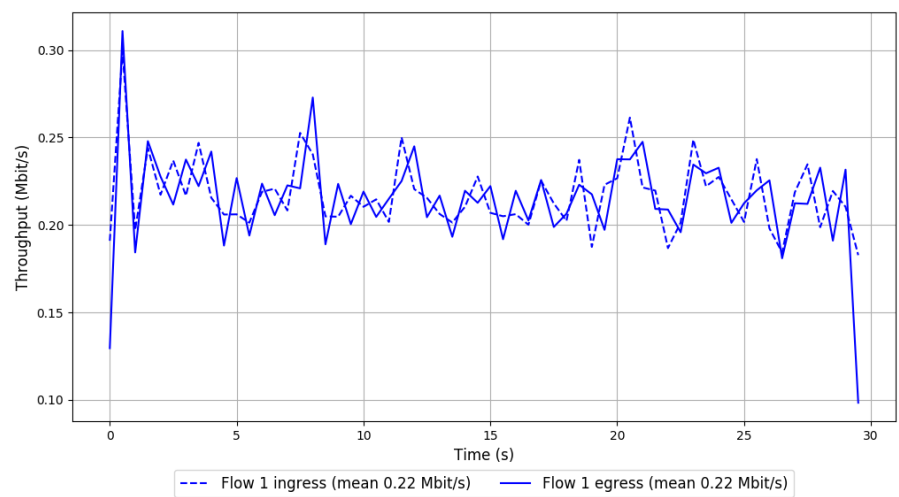
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.447 ms

Loss rate: 1.03%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-13 13:29:50

End at: 2018-02-13 13:30:20

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.666 ms

Loss rate: 1.03%

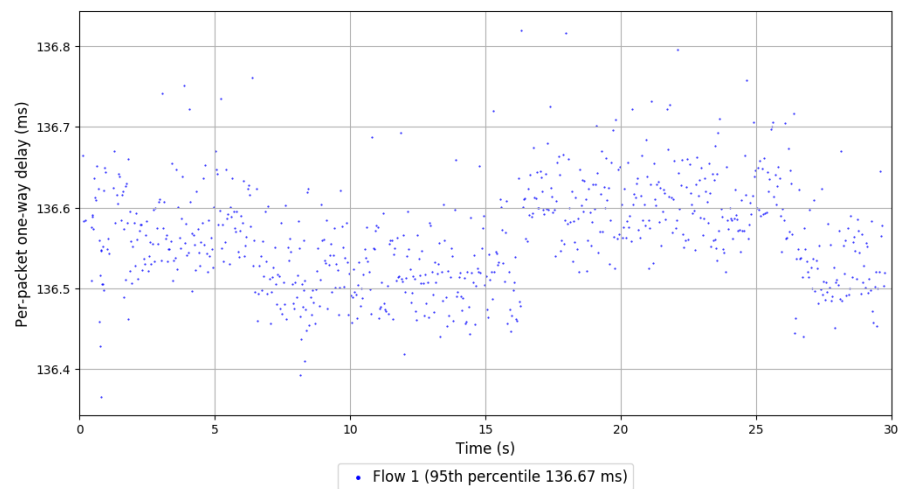
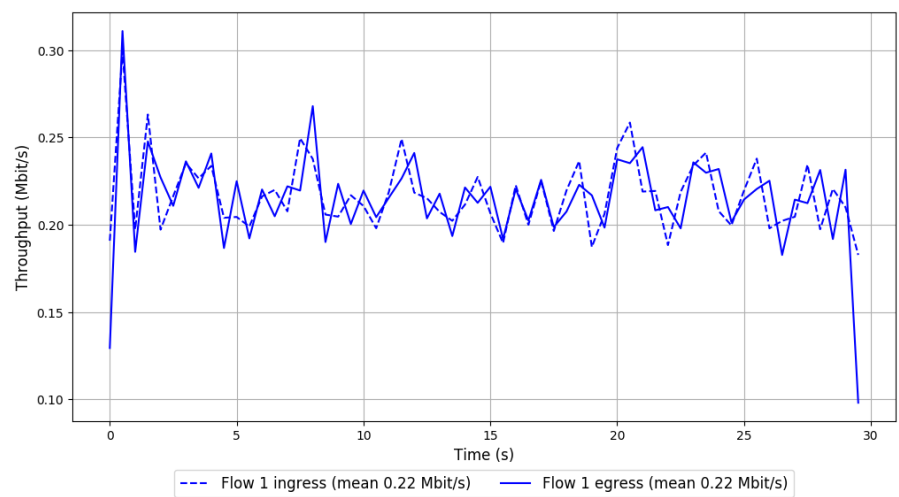
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.666 ms

Loss rate: 1.03%

Run 10: Report of SReAM — Data Link

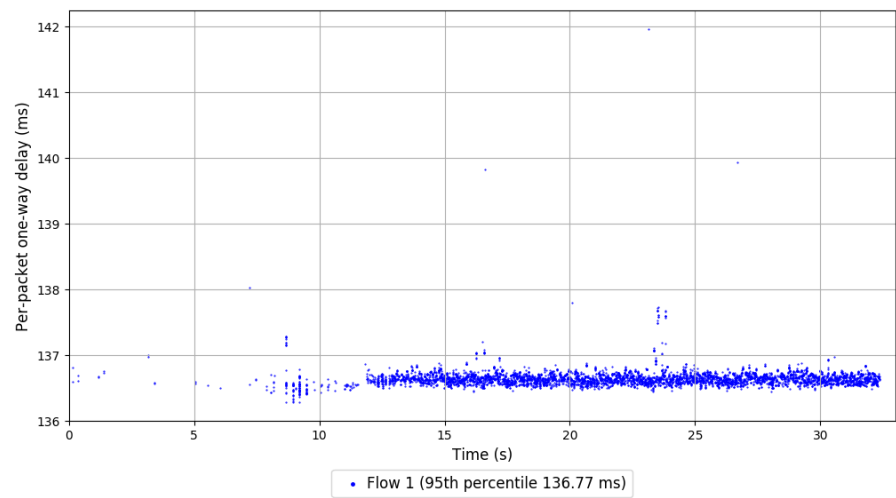
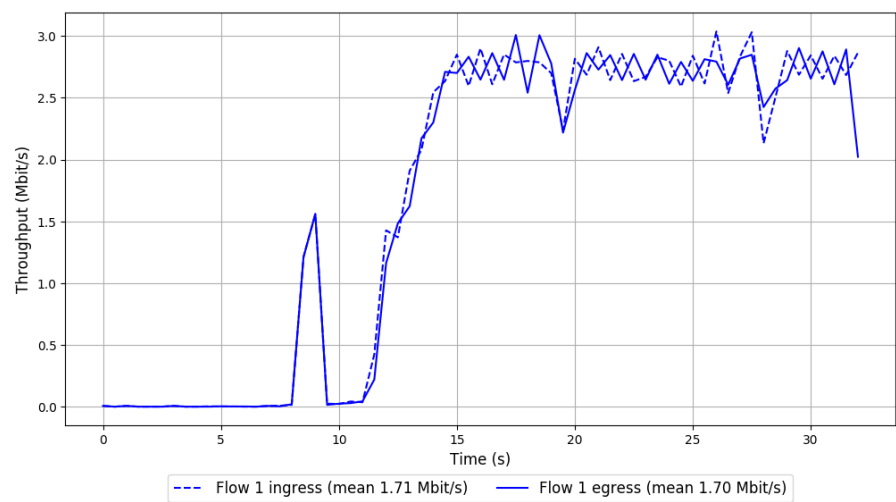


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-13 11:20:23
End at: 2018-02-13 11:20:53

# Below is generated by plot.py at 2018-02-13 16:43:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.70 Mbit/s
95th percentile per-packet one-way delay: 136.766 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 1.70 Mbit/s
95th percentile per-packet one-way delay: 136.766 ms
Loss rate: 1.37%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-13 11:35:47

End at: 2018-02-13 11:36:17

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.407 ms

Loss rate: 1.08%

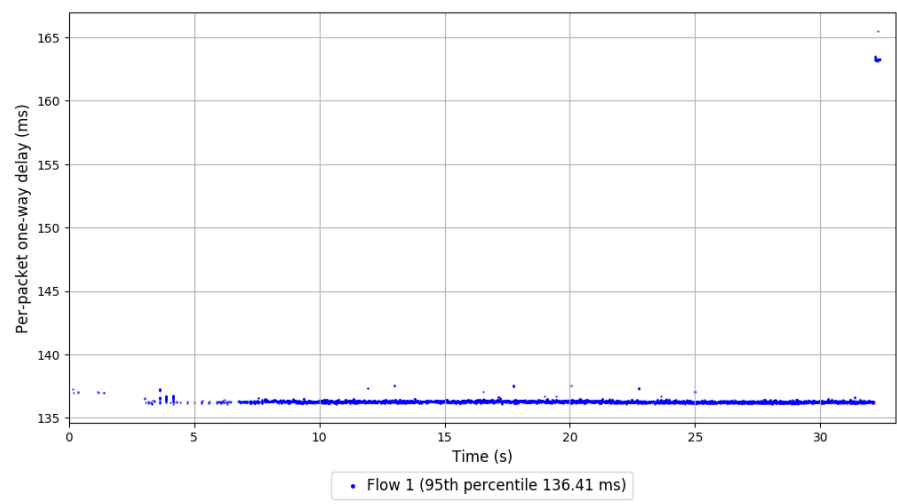
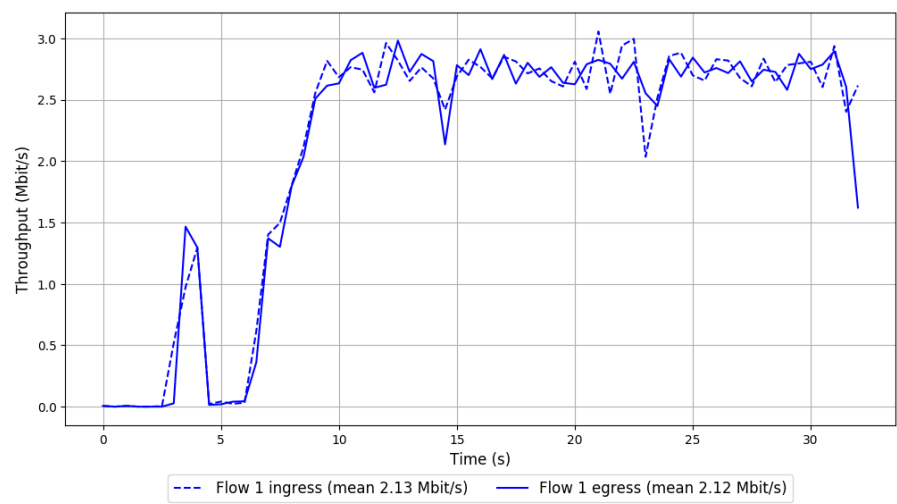
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.407 ms

Loss rate: 1.08%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-13 11:51:19

End at: 2018-02-13 11:51:49

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 163.243 ms

Loss rate: 0.99%

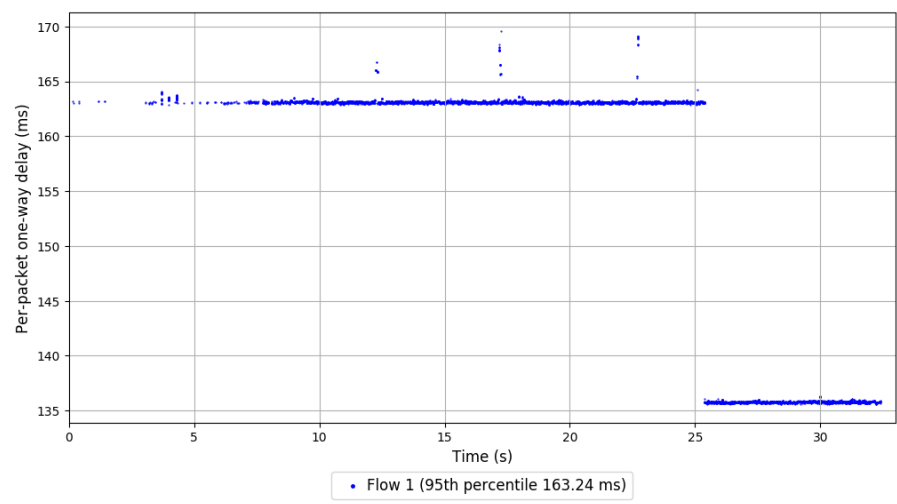
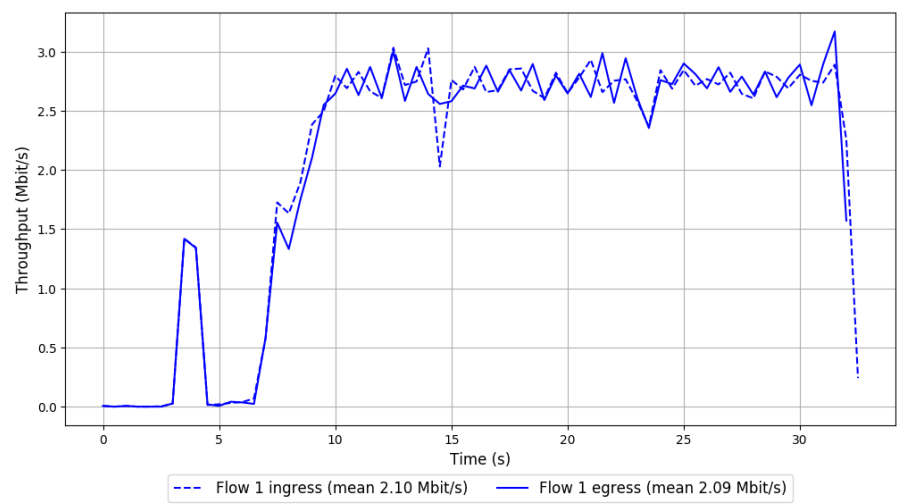
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 163.243 ms

Loss rate: 0.99%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-13 12:06:51

End at: 2018-02-13 12:07:21

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 135.581 ms

Loss rate: 0.90%

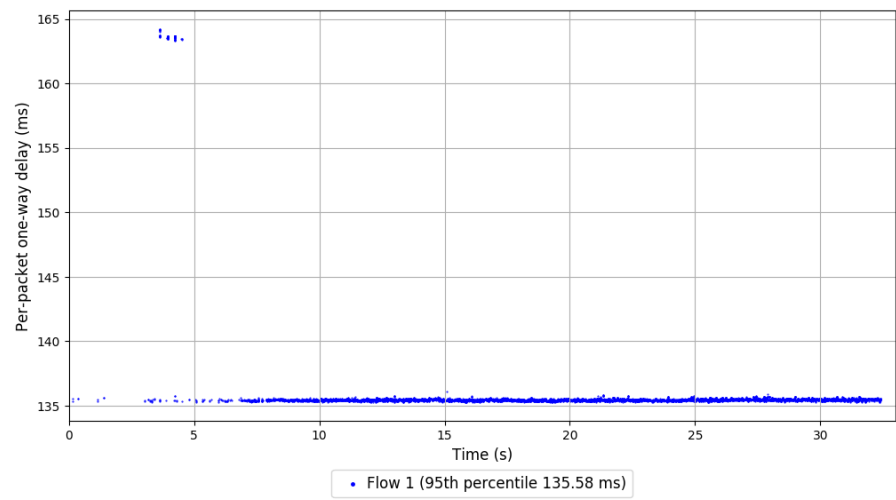
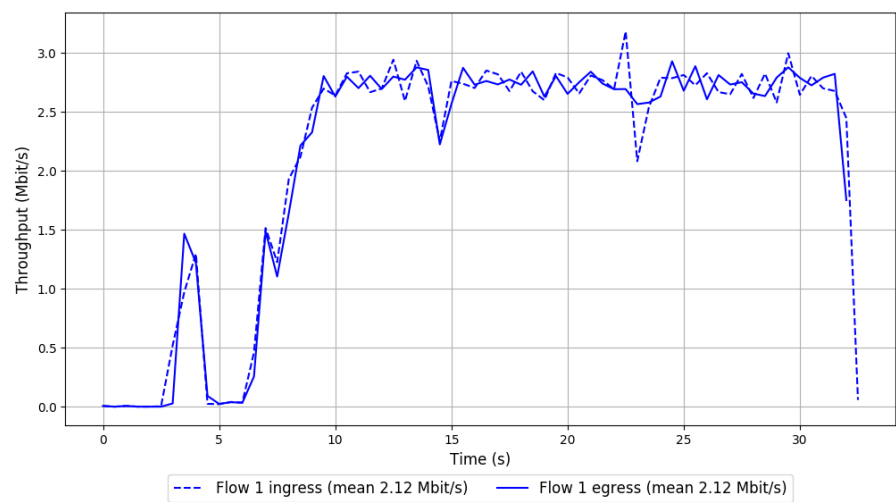
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 135.581 ms

Loss rate: 0.90%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-13 12:22:29

End at: 2018-02-13 12:22:59

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

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

Loss rate: 1.02%

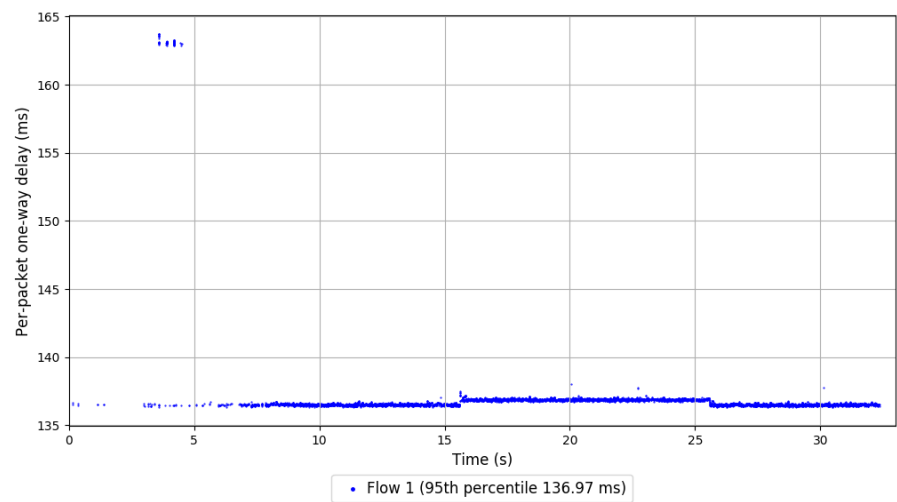
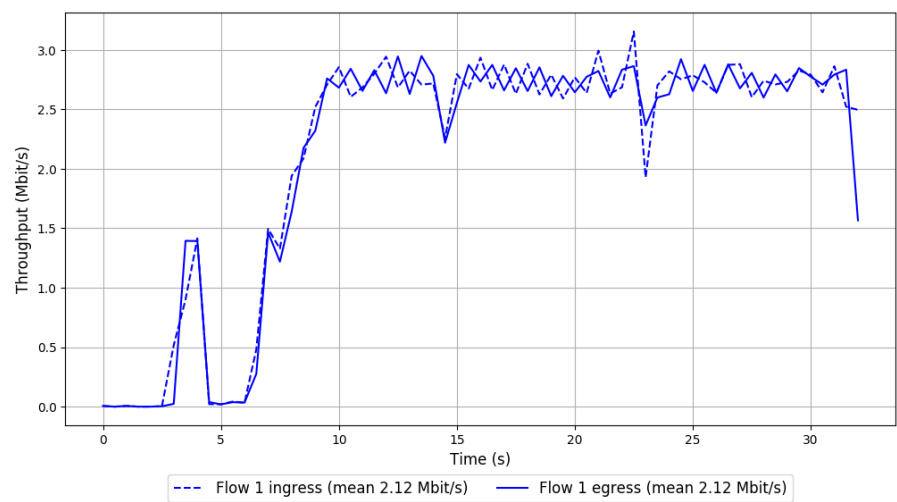
-- Flow 1:

Average throughput: 2.12 Mbit/s

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

Loss rate: 1.02%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-13 12:38:27

End at: 2018-02-13 12:38:57

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.579 ms

Loss rate: 0.98%

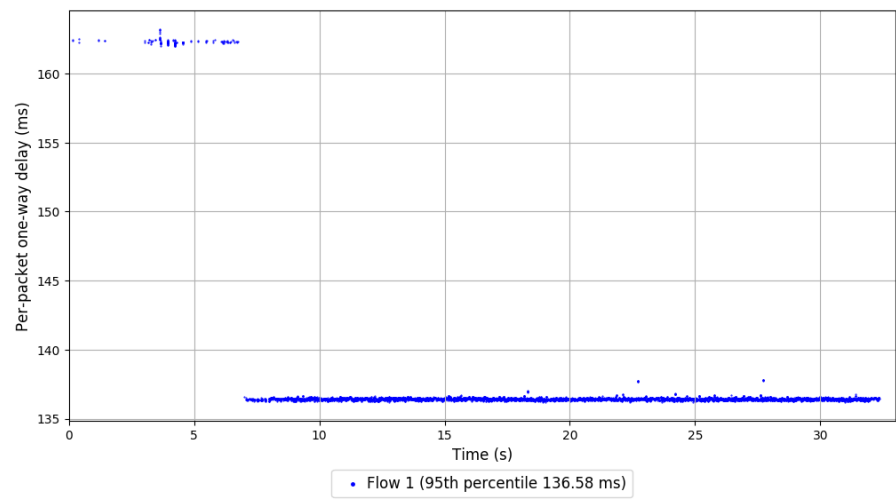
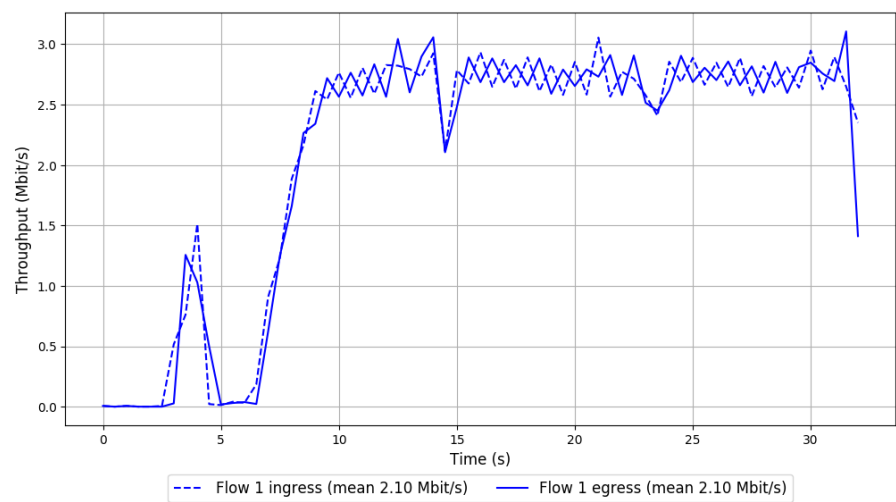
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.579 ms

Loss rate: 0.98%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-13 12:53:34

End at: 2018-02-13 12:54:04

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

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

Loss rate: 1.02%

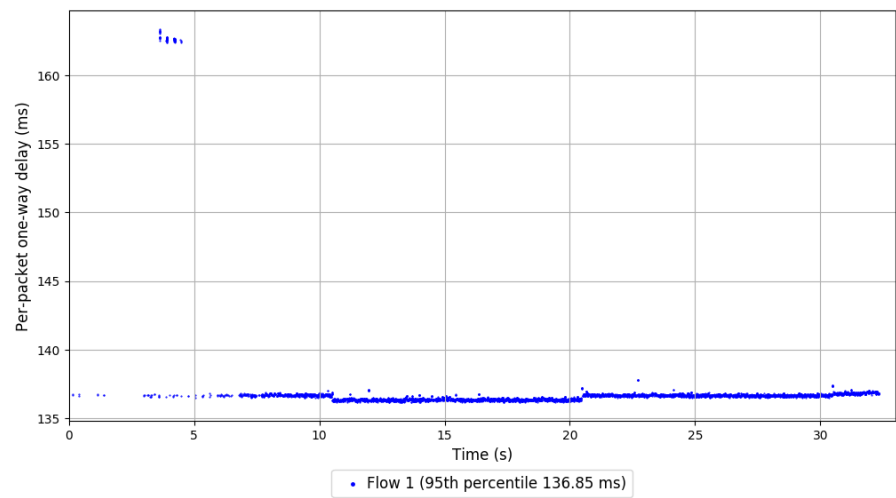
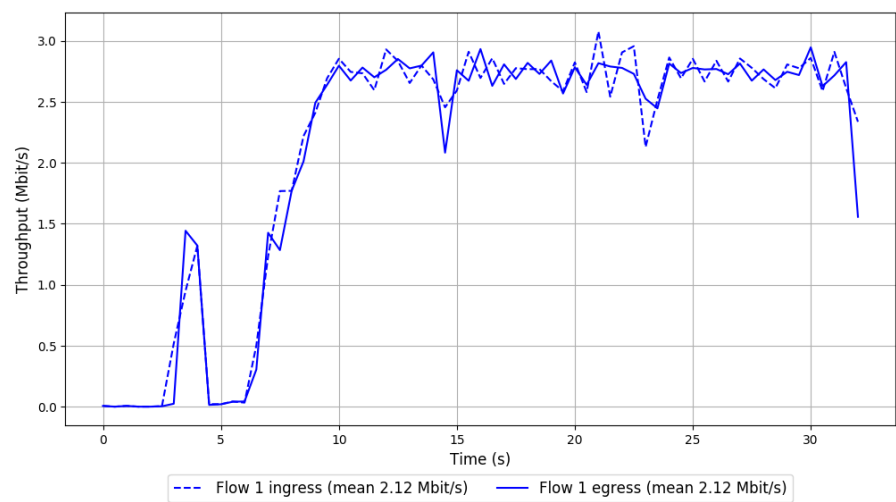
-- Flow 1:

Average throughput: 2.12 Mbit/s

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

Loss rate: 1.02%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

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

End at: 2018-02-13 13:09:32

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.340 ms

Loss rate: 1.17%

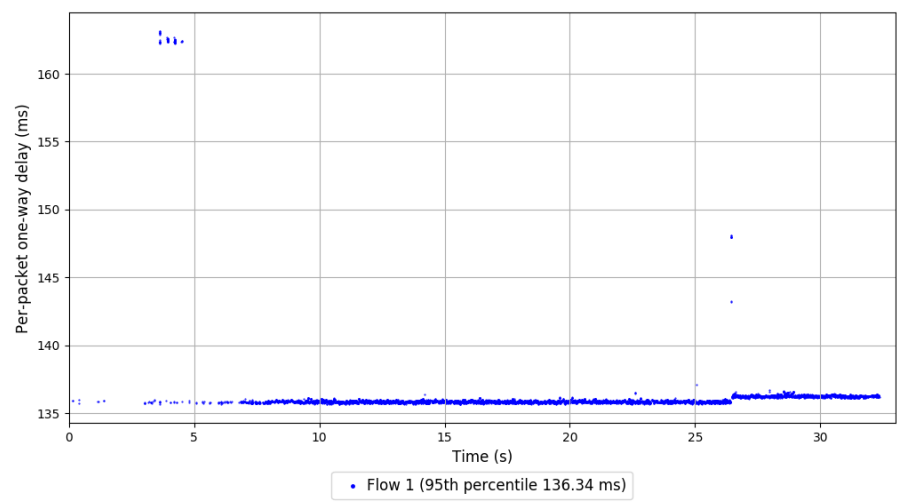
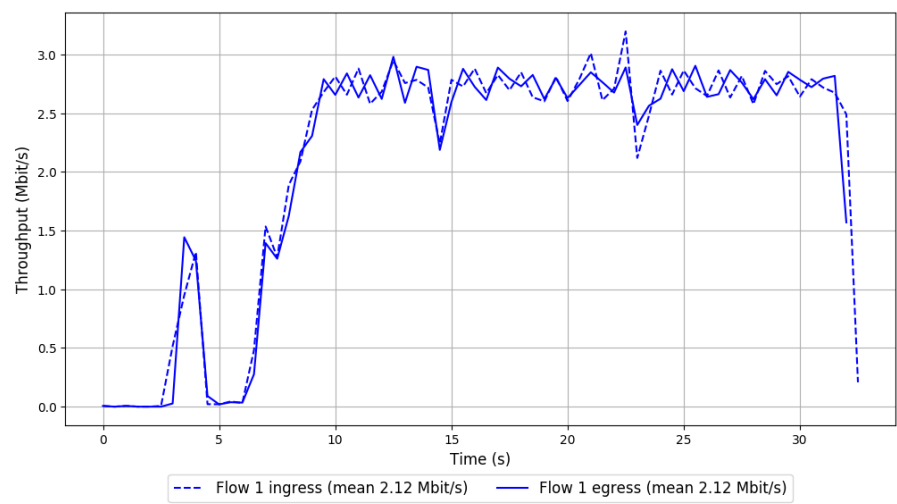
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.340 ms

Loss rate: 1.17%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-13 13:24:22

End at: 2018-02-13 13:24:52

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 136.369 ms

Loss rate: 1.06%

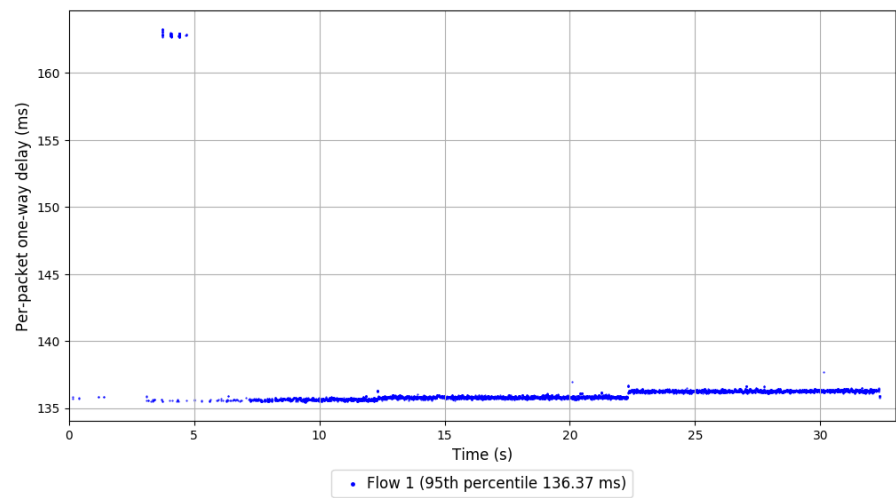
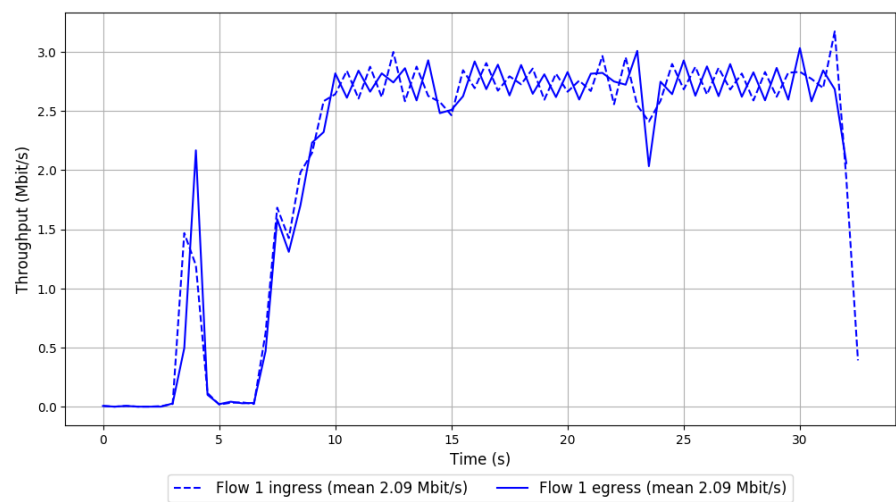
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 136.369 ms

Loss rate: 1.06%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

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

End at: 2018-02-13 13:40:33

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 137.542 ms

Loss rate: 1.10%

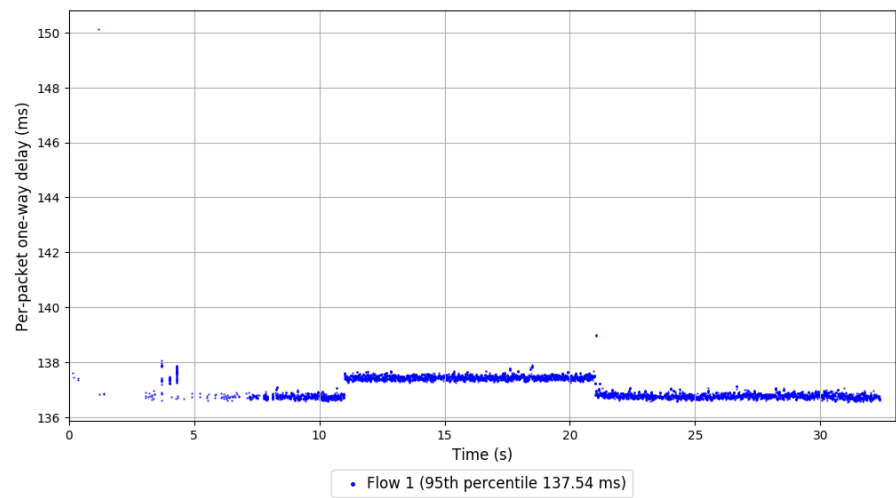
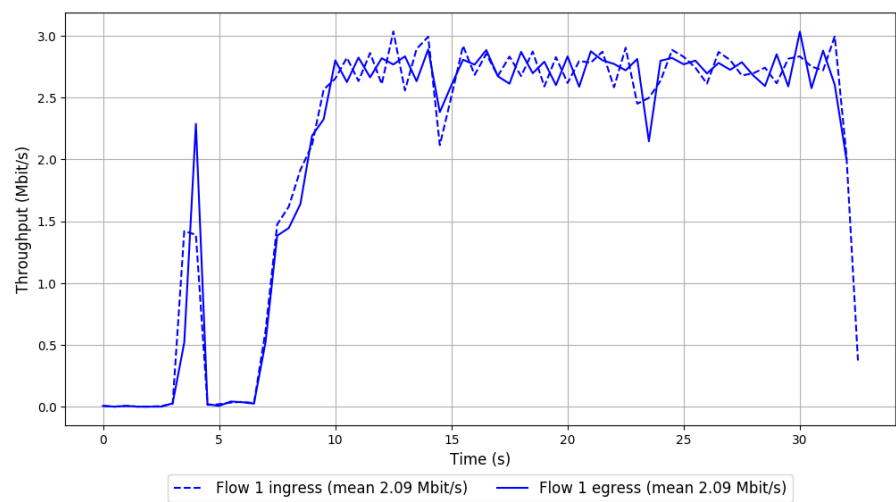
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 137.542 ms

Loss rate: 1.10%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-13 11:16:46

End at: 2018-02-13 11:17:16

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

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

Loss rate: 0.93%

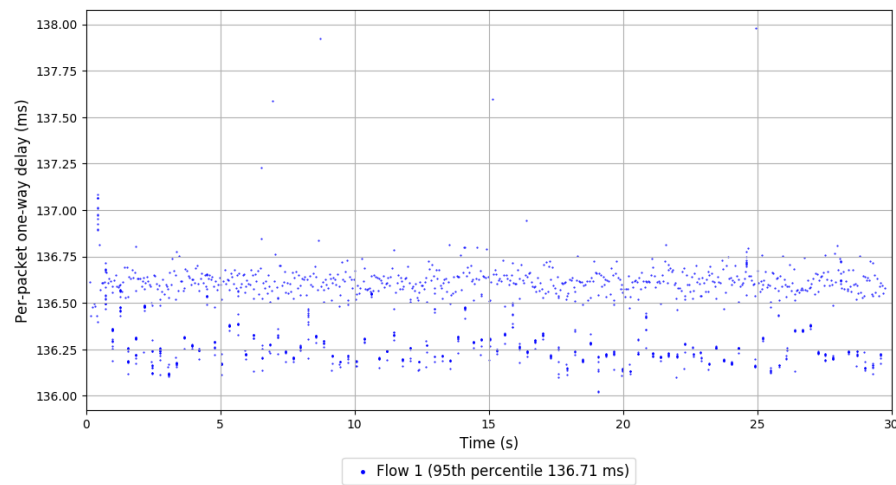
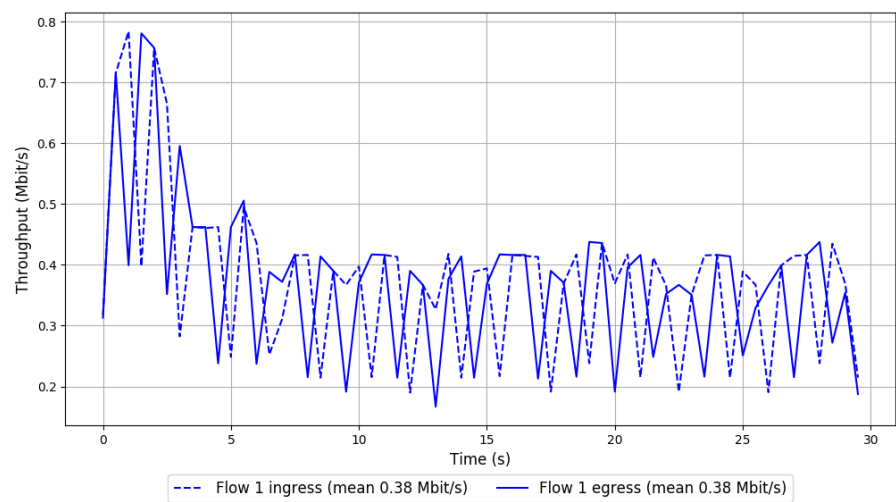
-- Flow 1:

Average throughput: 0.38 Mbit/s

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

Loss rate: 0.93%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-13 11:32:34

End at: 2018-02-13 11:33:04

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 163.279 ms

Loss rate: 1.95%

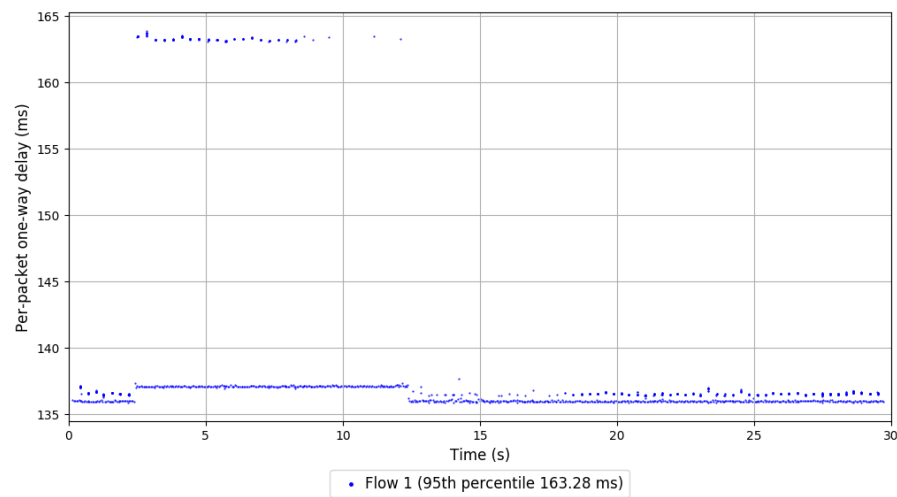
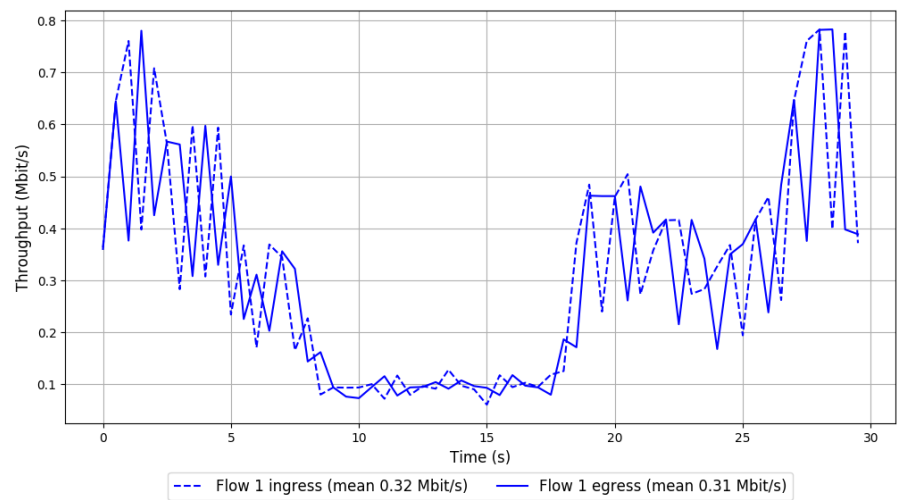
-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 163.279 ms

Loss rate: 1.95%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-13 11:47:55

End at: 2018-02-13 11:48:25

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 163.487 ms

Loss rate: 0.86%

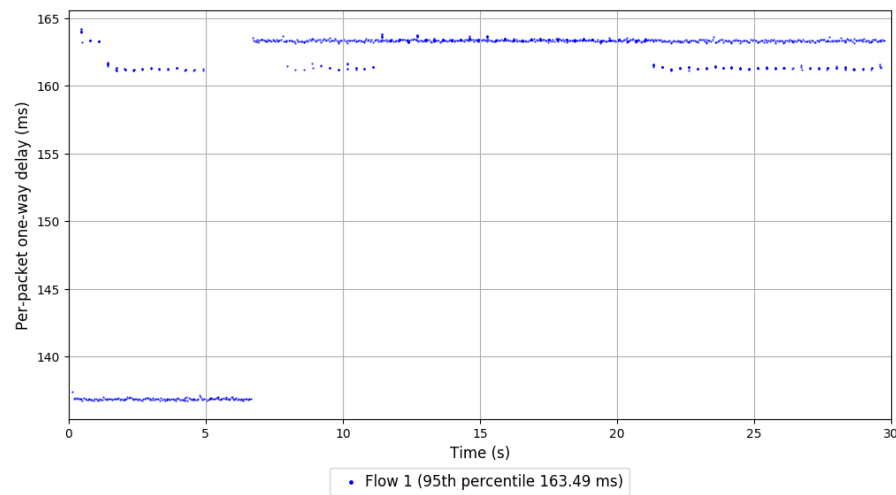
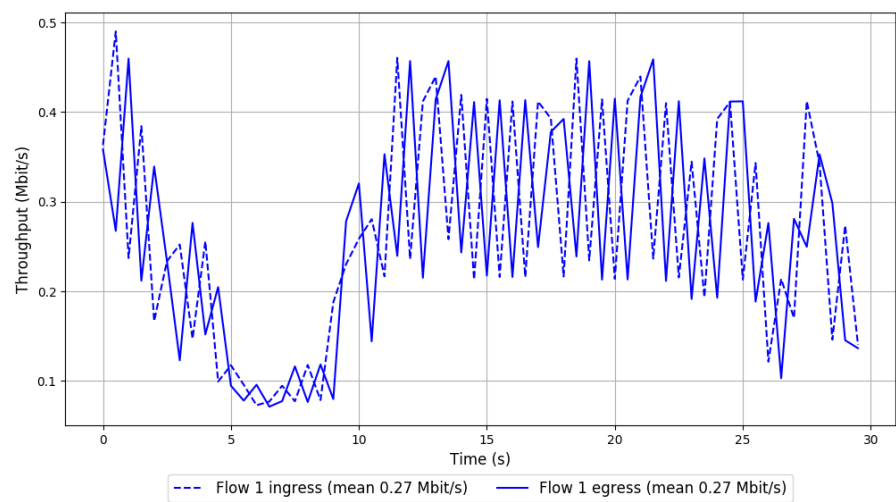
-- Flow 1:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 163.487 ms

Loss rate: 0.86%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-13 12:03:28

End at: 2018-02-13 12:03:58

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 163.681 ms

Loss rate: 0.46%

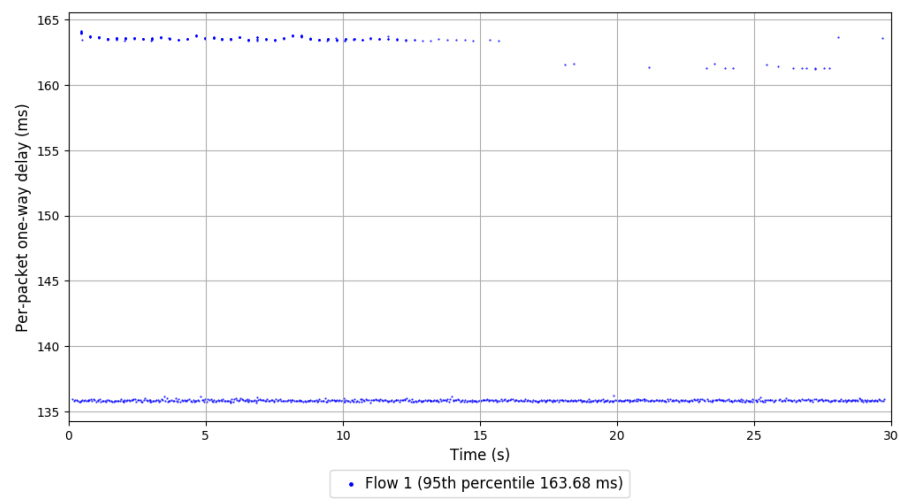
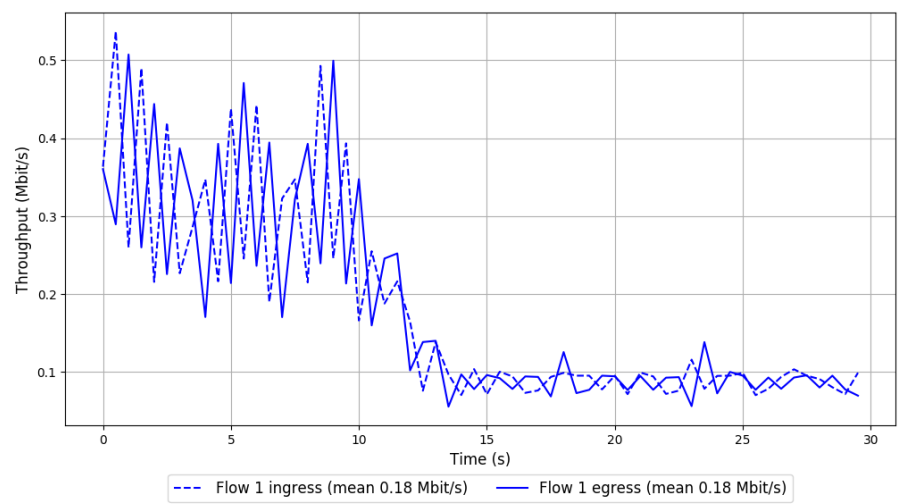
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 163.681 ms

Loss rate: 0.46%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-13 12:19:08

End at: 2018-02-13 12:19:38

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 163.264 ms

Loss rate: 0.52%

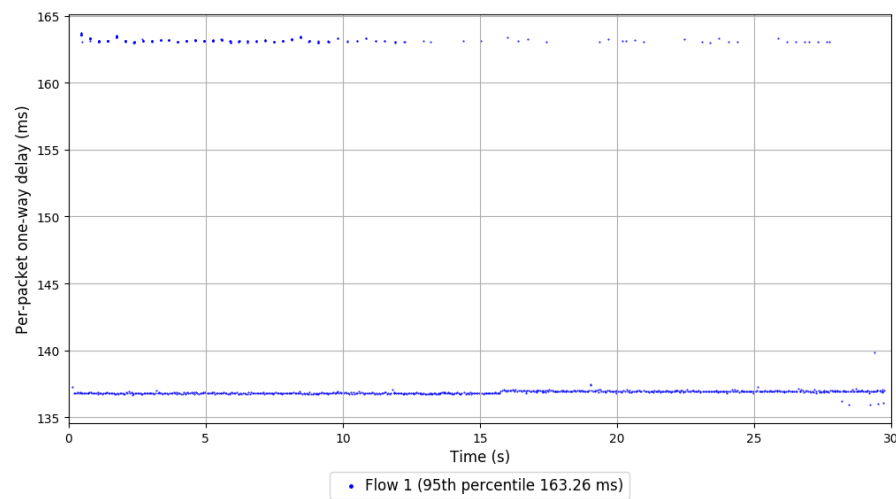
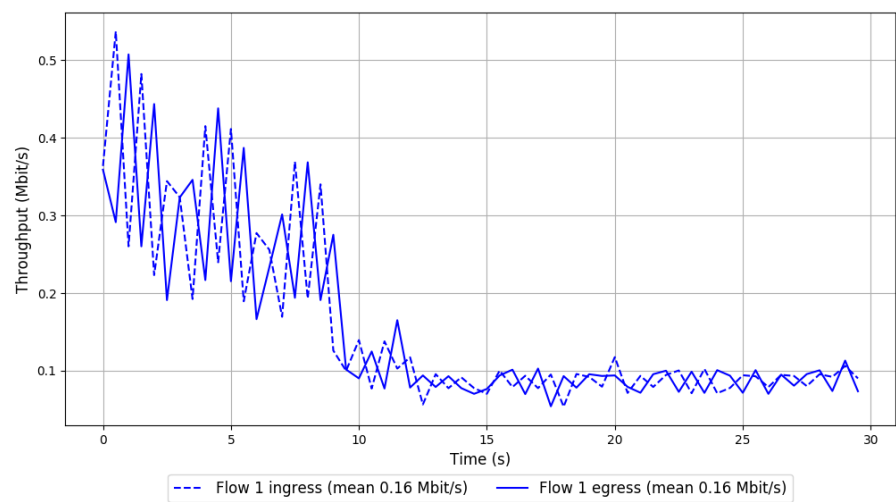
-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 163.264 ms

Loss rate: 0.52%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-13 12:35:05

End at: 2018-02-13 12:35:36

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 163.017 ms

Loss rate: 0.38%

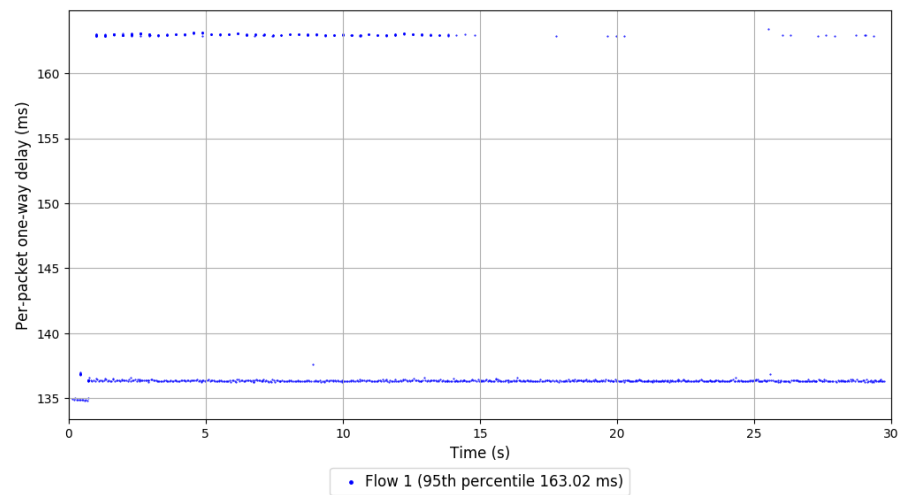
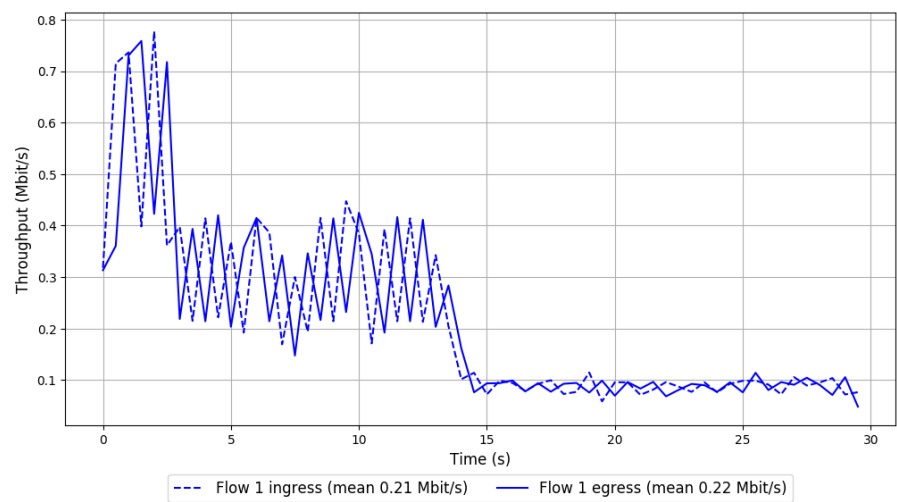
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 163.017 ms

Loss rate: 0.38%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-13 12:50:19

End at: 2018-02-13 12:50:49

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 162.264 ms

Loss rate: 0.82%

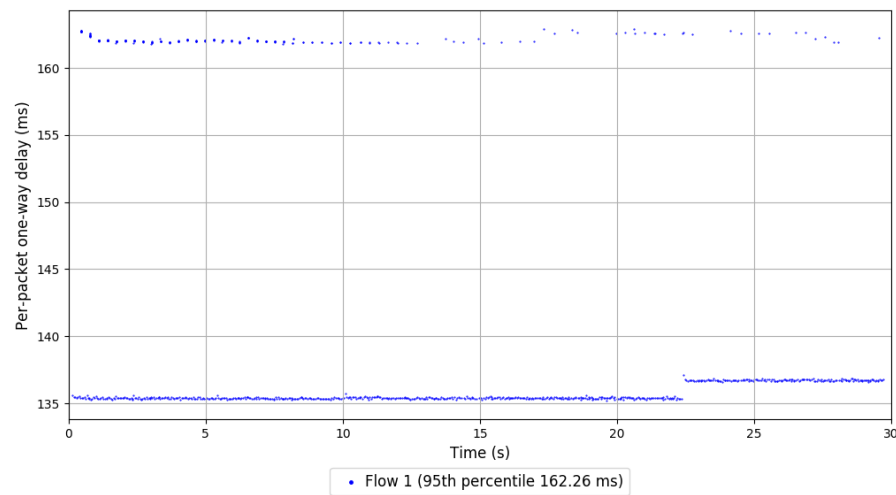
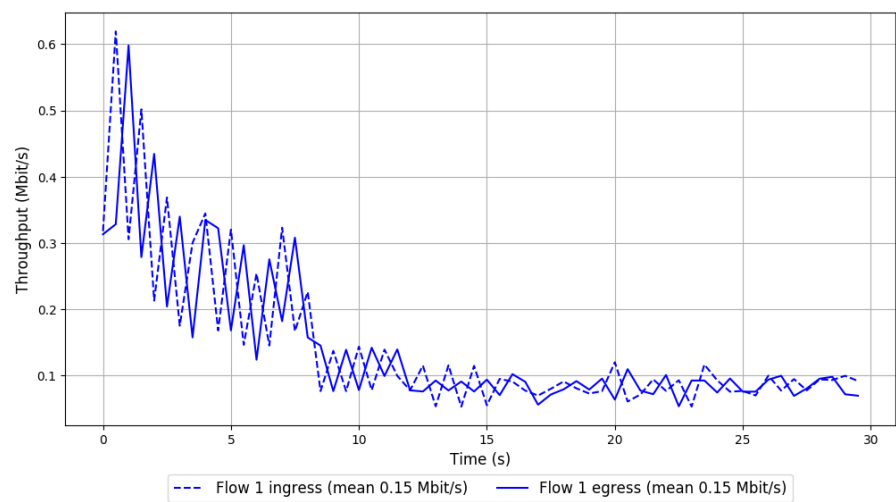
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 162.264 ms

Loss rate: 0.82%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

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

End at: 2018-02-13 13:05:56

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 162.521 ms

Loss rate: 1.54%

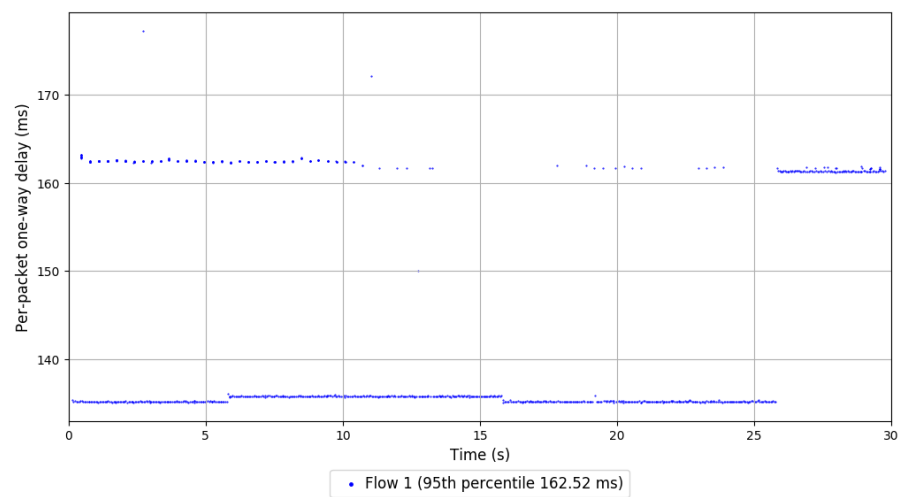
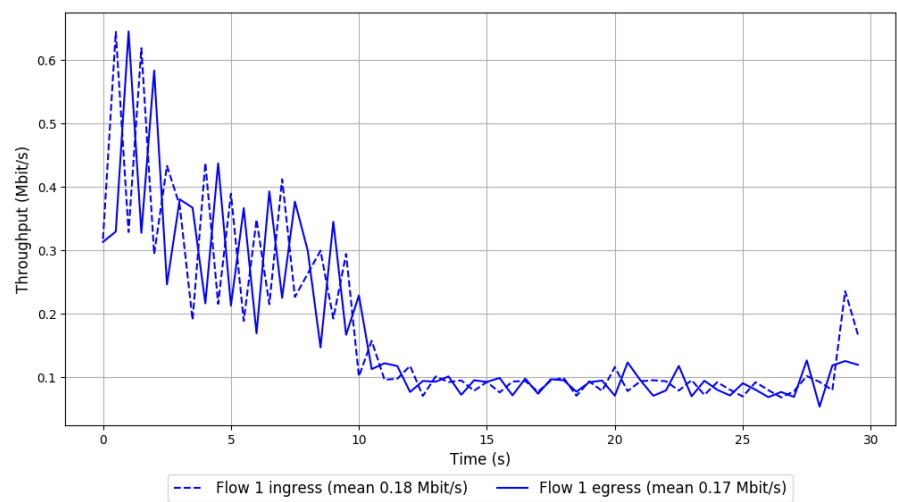
-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 162.521 ms

Loss rate: 1.54%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

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

End at: 2018-02-13 13:21:29

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 162.896 ms

Loss rate: 1.29%

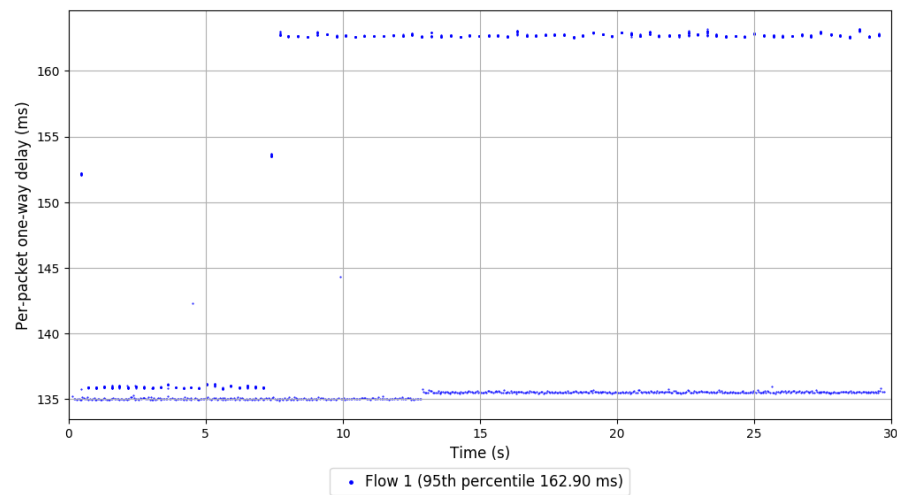
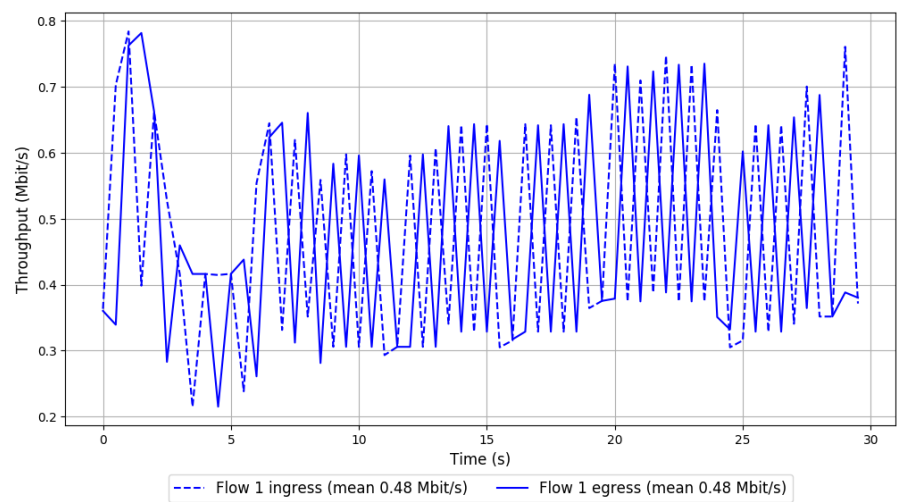
-- Flow 1:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 162.896 ms

Loss rate: 1.29%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-13 13:36:40

End at: 2018-02-13 13:37:11

Below is generated by plot.py at 2018-02-13 16:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.36 Mbit/s

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

Loss rate: 0.98%

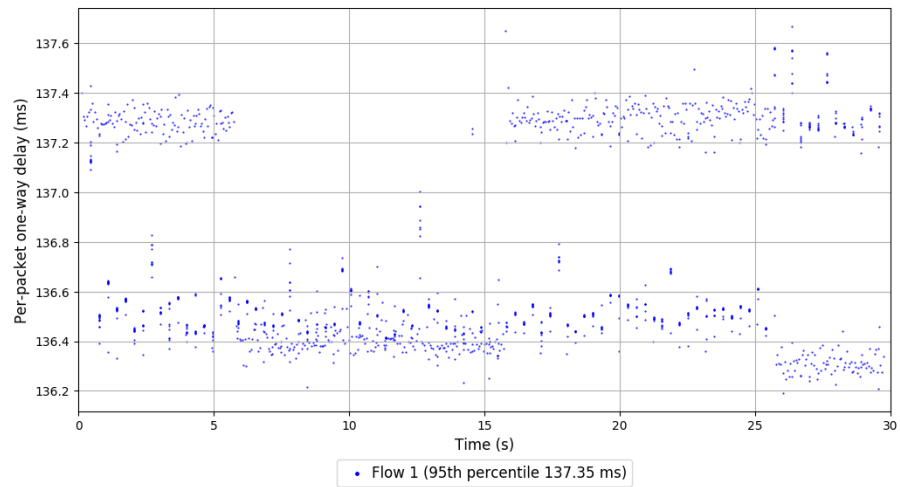
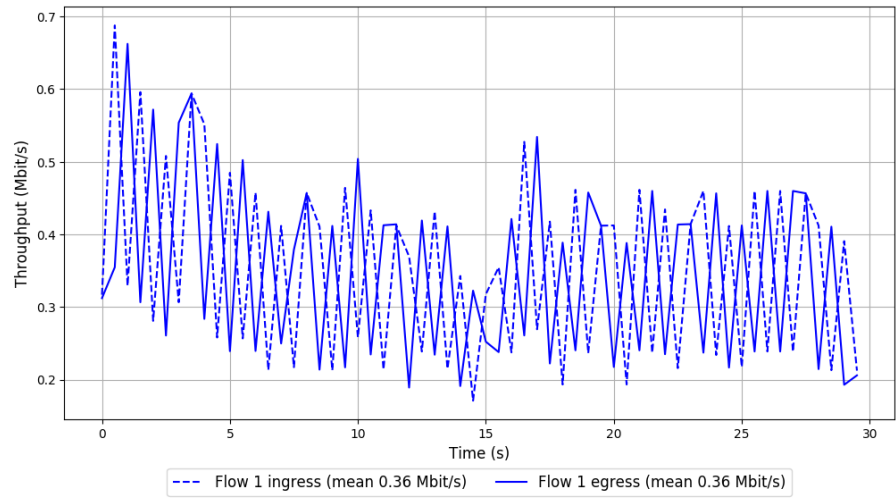
-- Flow 1:

Average throughput: 0.36 Mbit/s

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

Loss rate: 0.98%

Run 10: Report of Sprout — Data Link

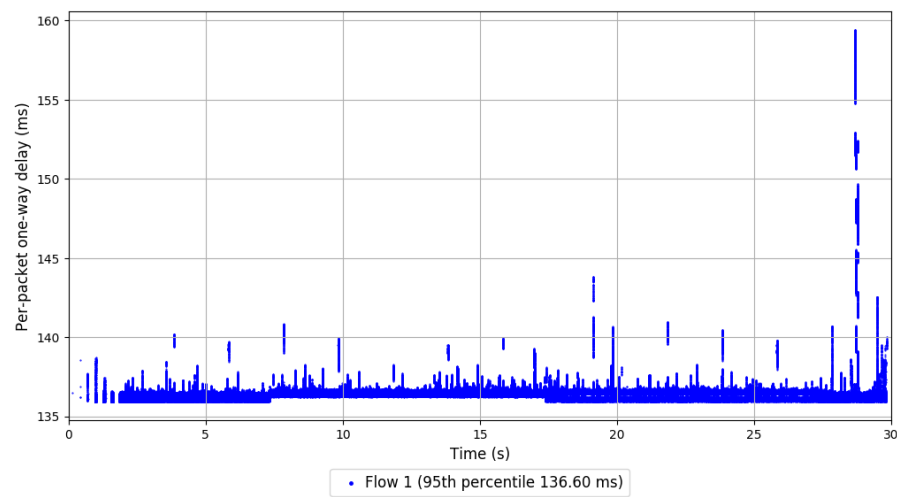
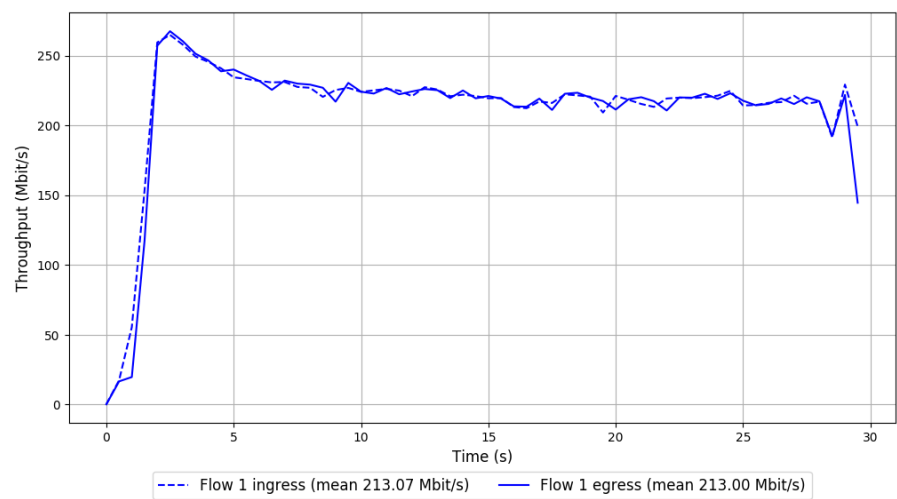


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-13 11:19:19
End at: 2018-02-13 11:19:49

# Below is generated by plot.py at 2018-02-13 16:43:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.00 Mbit/s
95th percentile per-packet one-way delay: 136.599 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 213.00 Mbit/s
95th percentile per-packet one-way delay: 136.599 ms
Loss rate: 0.93%
```


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

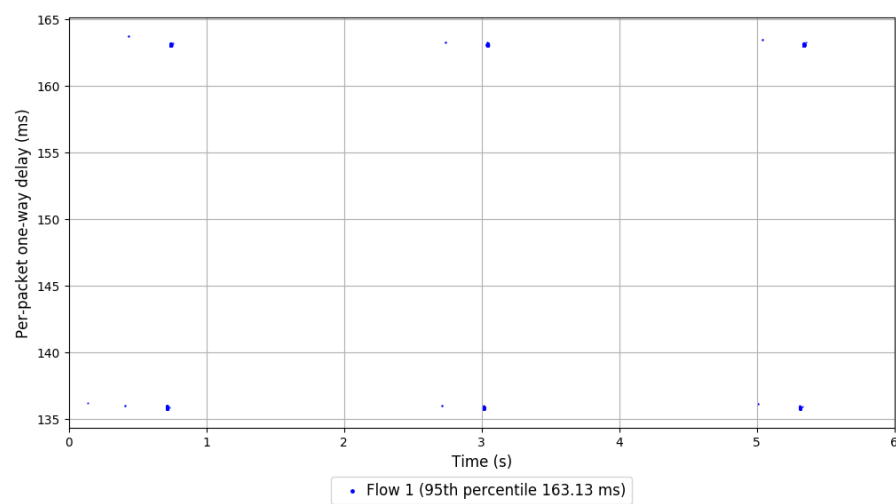
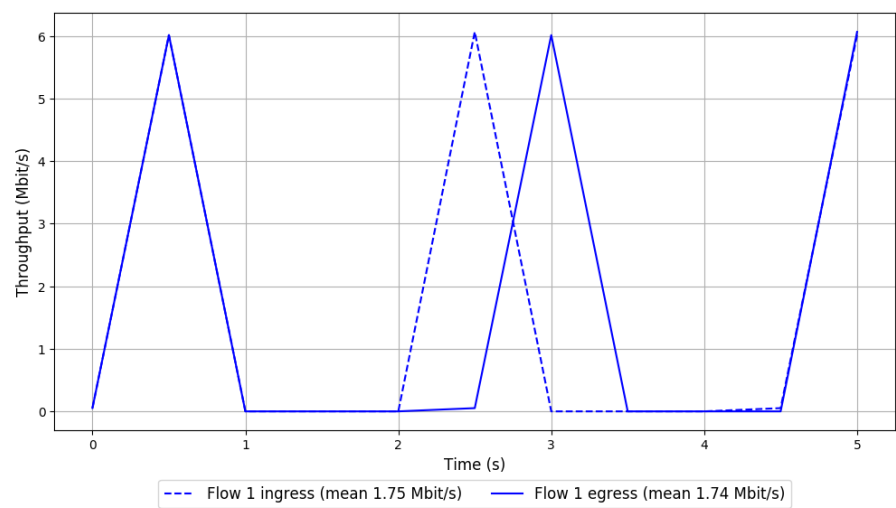


Run 2: Statistics of TaoVA-100x

Start at: 2018-02-13 11:35:05

End at: 2018-02-13 11:35:35

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-13 11:50:29

End at: 2018-02-13 11:50:59

Below is generated by plot.py at 2018-02-13 16:43:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.23 Mbit/s

95th percentile per-packet one-way delay: 163.372 ms

Loss rate: 0.06%

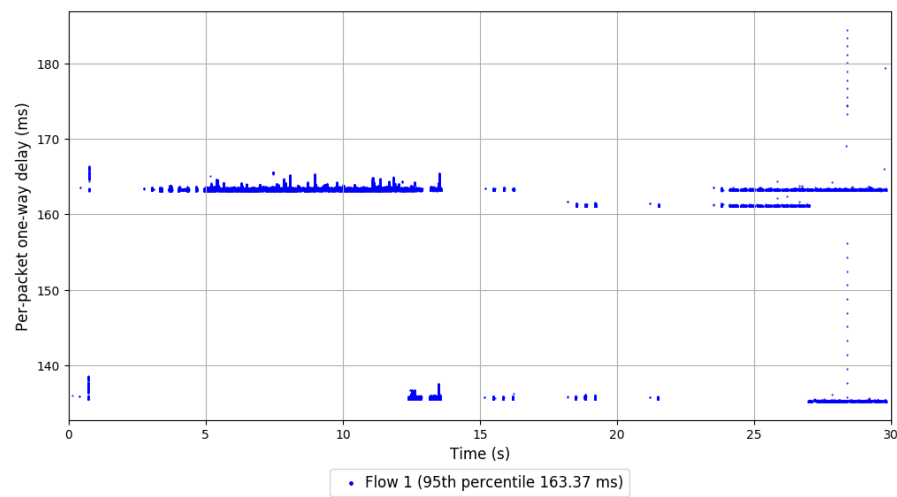
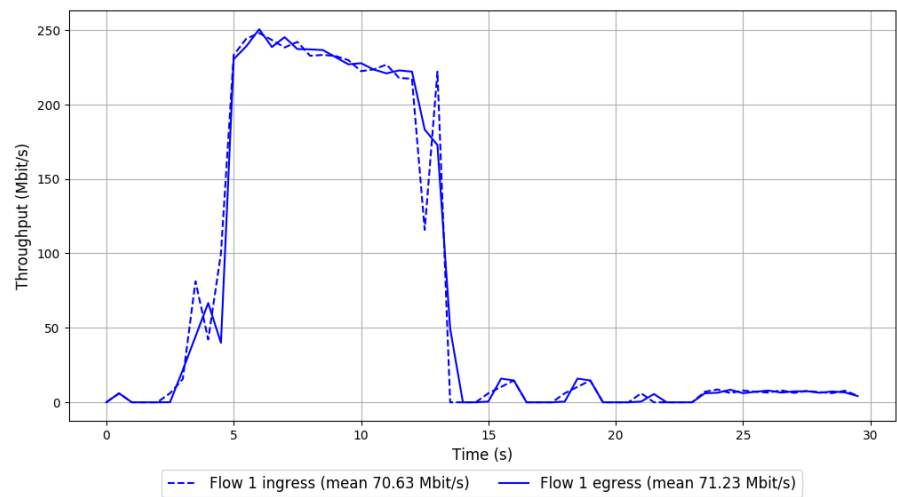
-- Flow 1:

Average throughput: 71.23 Mbit/s

95th percentile per-packet one-way delay: 163.372 ms

Loss rate: 0.06%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-13 12:06:07

End at: 2018-02-13 12:06:37

Below is generated by plot.py at 2018-02-13 16:43:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.21 Mbit/s

95th percentile per-packet one-way delay: 163.506 ms

Loss rate: 1.02%

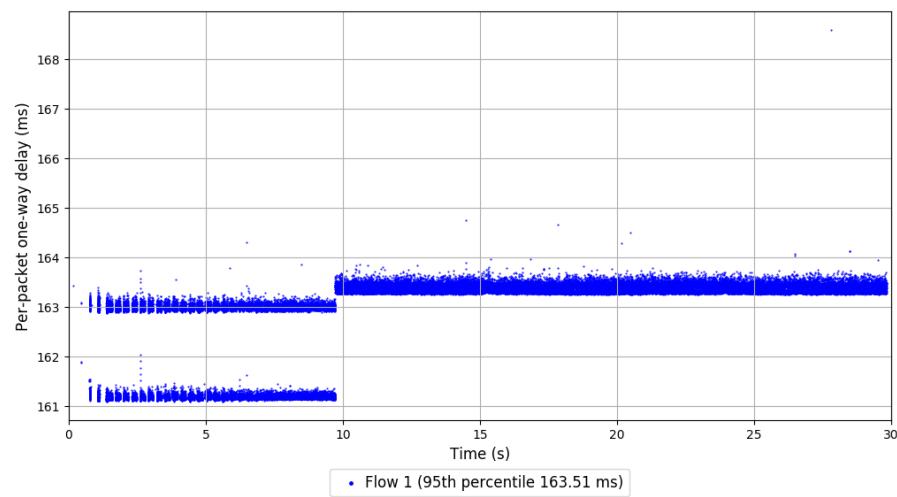
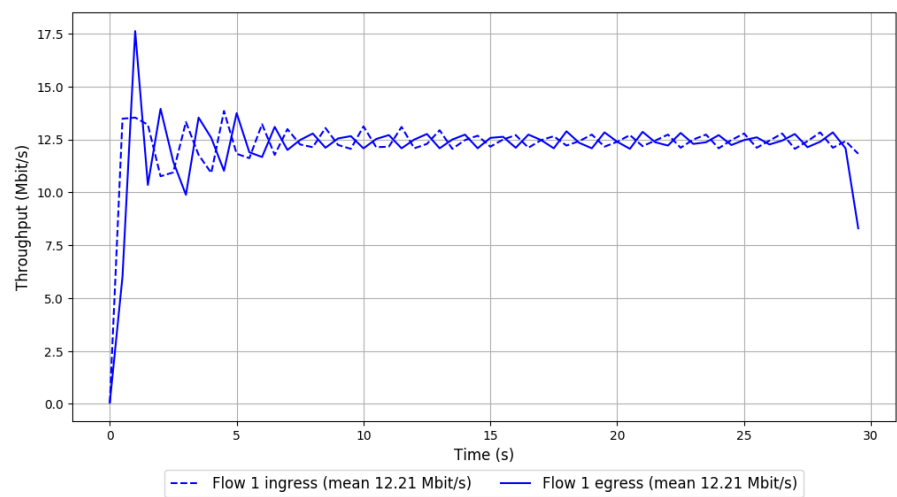
-- Flow 1:

Average throughput: 12.21 Mbit/s

95th percentile per-packet one-way delay: 163.506 ms

Loss rate: 1.02%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-13 12:21:45

End at: 2018-02-13 12:22:15

Below is generated by plot.py at 2018-02-13 16:43:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.96 Mbit/s

95th percentile per-packet one-way delay: 163.039 ms

Loss rate: 0.78%

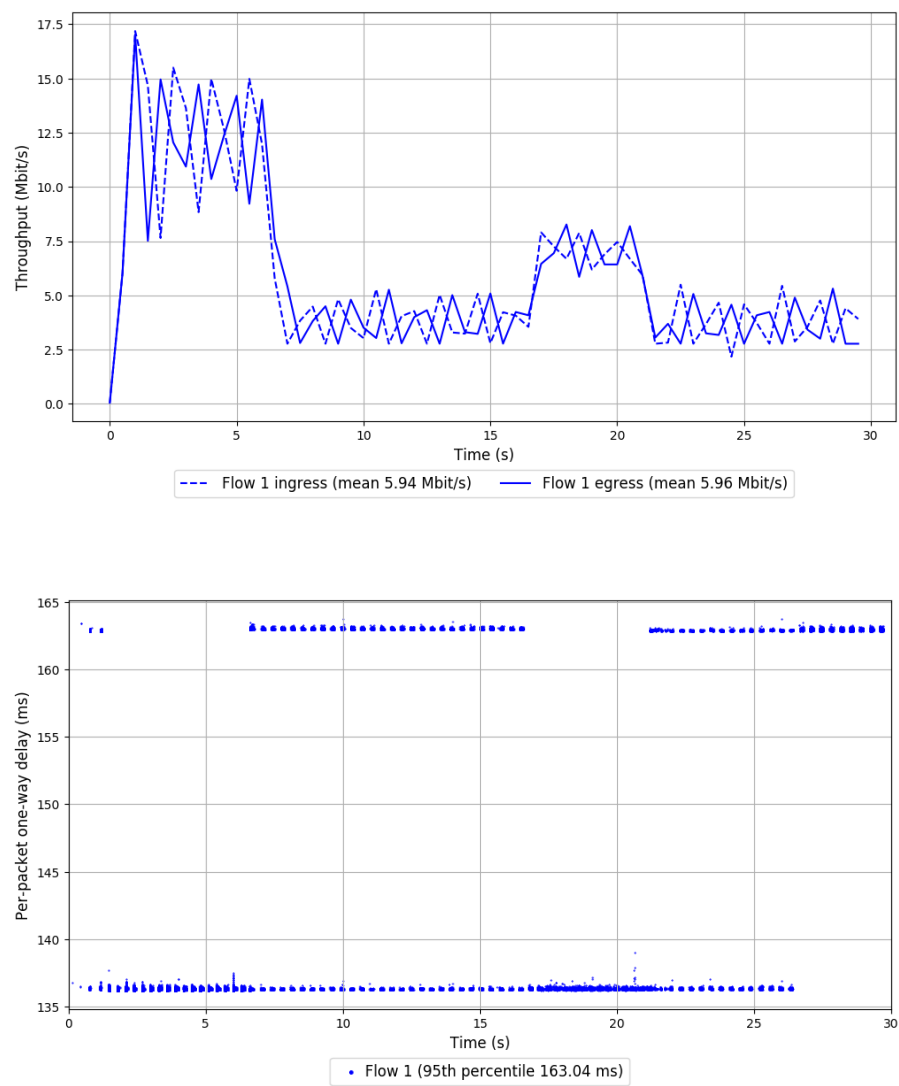
-- Flow 1:

Average throughput: 5.96 Mbit/s

95th percentile per-packet one-way delay: 163.039 ms

Loss rate: 0.78%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-13 12:37:43

End at: 2018-02-13 12:38:13

Below is generated by plot.py at 2018-02-13 16:43:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.62 Mbit/s

95th percentile per-packet one-way delay: 162.781 ms

Loss rate: 1.53%

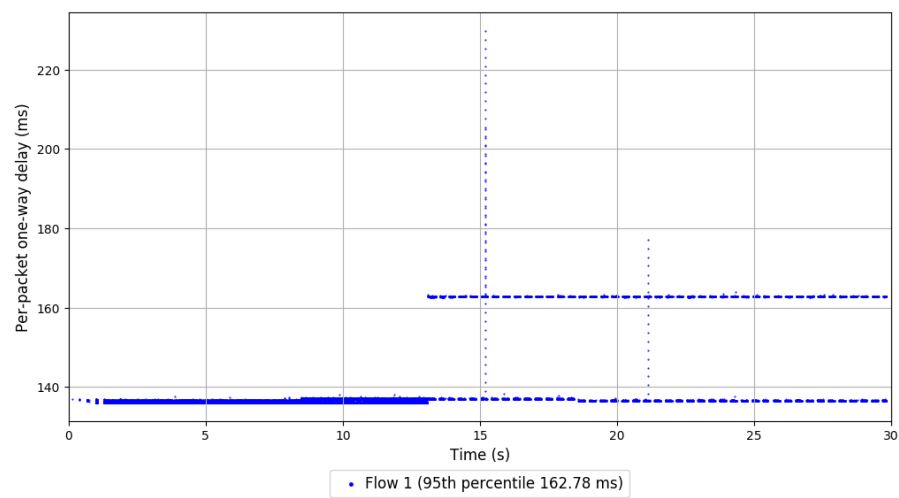
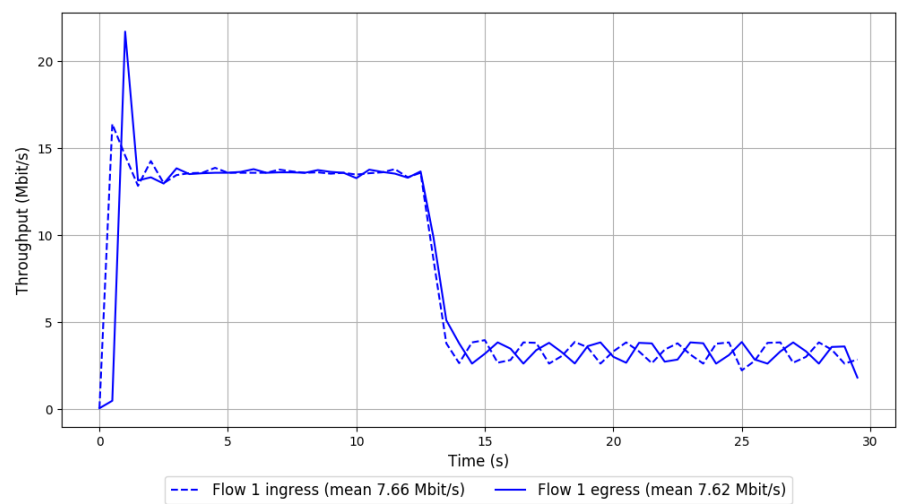
-- Flow 1:

Average throughput: 7.62 Mbit/s

95th percentile per-packet one-way delay: 162.781 ms

Loss rate: 1.53%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-13 12:52:49

End at: 2018-02-13 12:53:19

Below is generated by plot.py at 2018-02-13 16:43:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.57 Mbit/s

95th percentile per-packet one-way delay: 162.562 ms

Loss rate: 0.89%

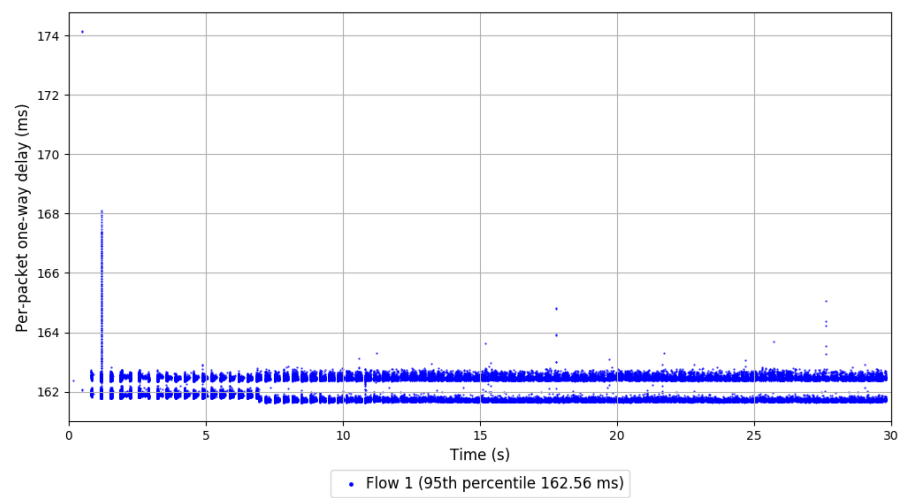
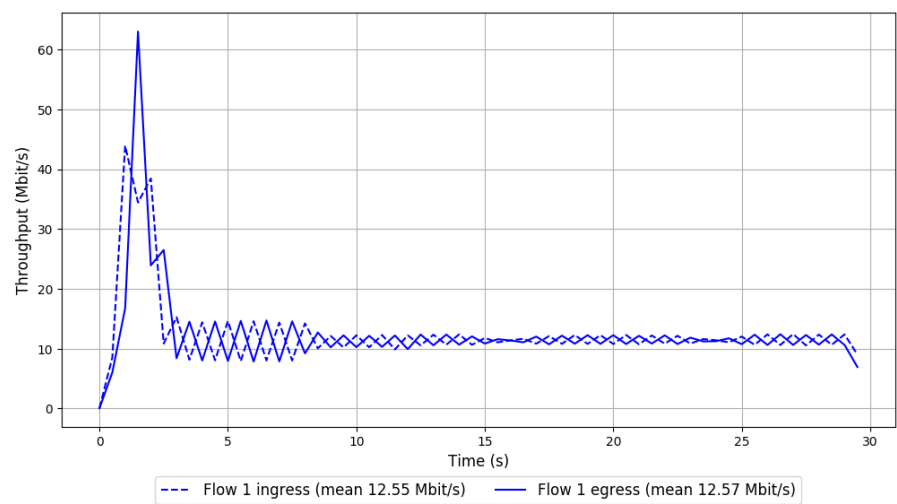
-- Flow 1:

Average throughput: 12.57 Mbit/s

95th percentile per-packet one-way delay: 162.562 ms

Loss rate: 0.89%

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



Run 8: Statistics of TaoVA-100x

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

End at: 2018-02-13 13:08:34

Below is generated by plot.py at 2018-02-13 16:43:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.84 Mbit/s

95th percentile per-packet one-way delay: 162.490 ms

Loss rate: 0.34%

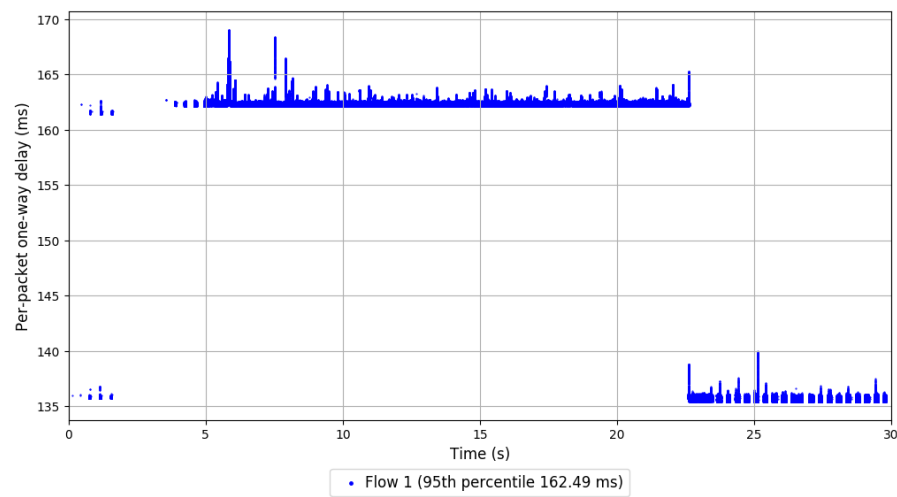
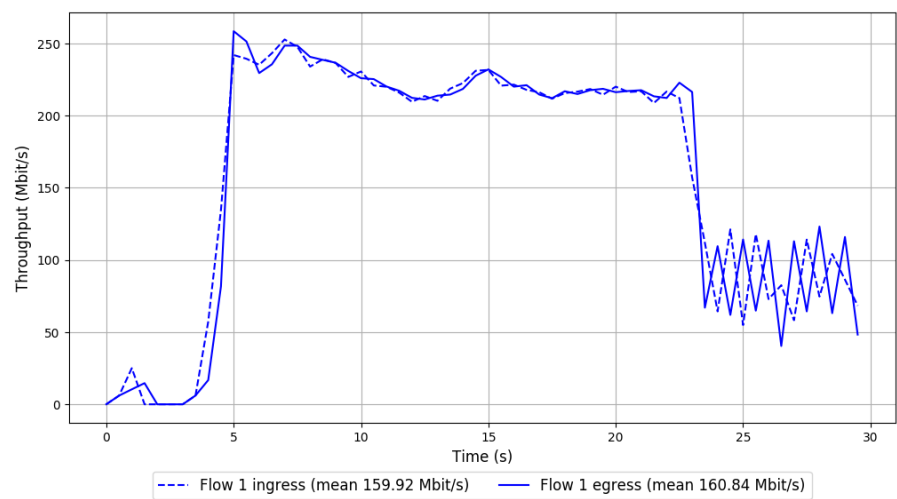
-- Flow 1:

Average throughput: 160.84 Mbit/s

95th percentile per-packet one-way delay: 162.490 ms

Loss rate: 0.34%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-13 13:23:38

End at: 2018-02-13 13:24:08

Below is generated by plot.py at 2018-02-13 16:43:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.50 Mbit/s

95th percentile per-packet one-way delay: 162.694 ms

Loss rate: 1.30%

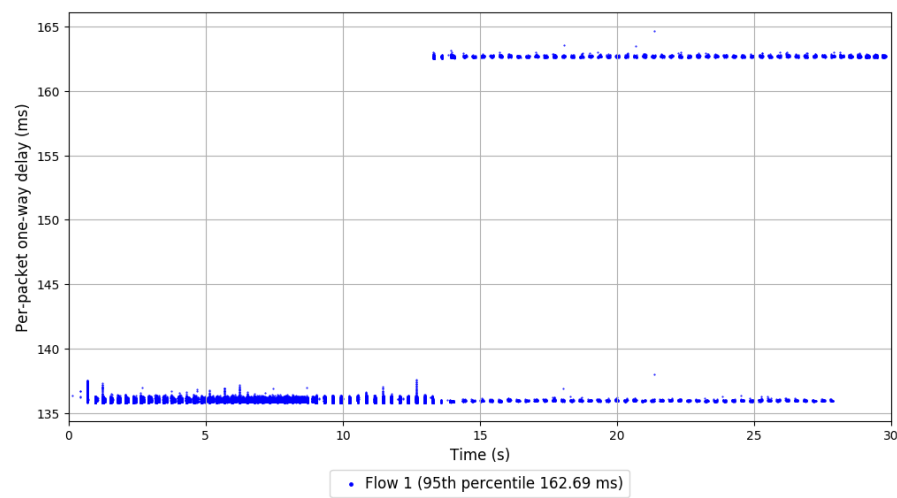
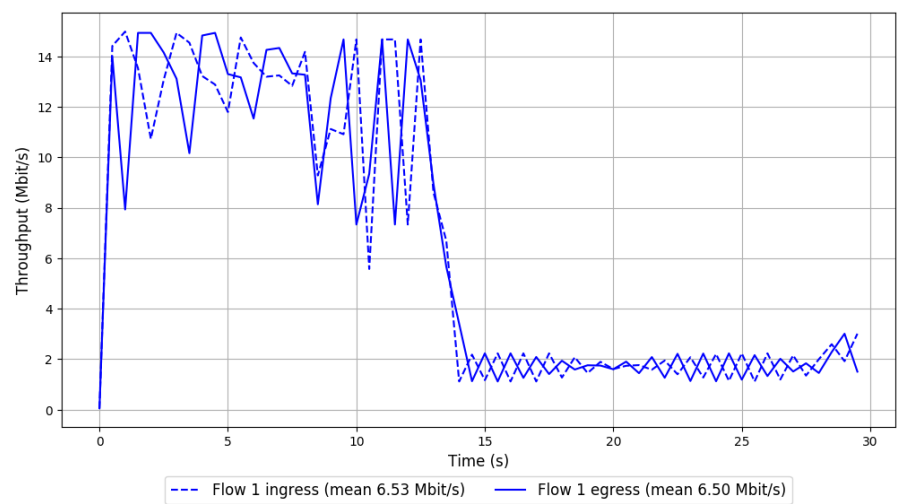
-- Flow 1:

Average throughput: 6.50 Mbit/s

95th percentile per-packet one-way delay: 162.694 ms

Loss rate: 1.30%

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

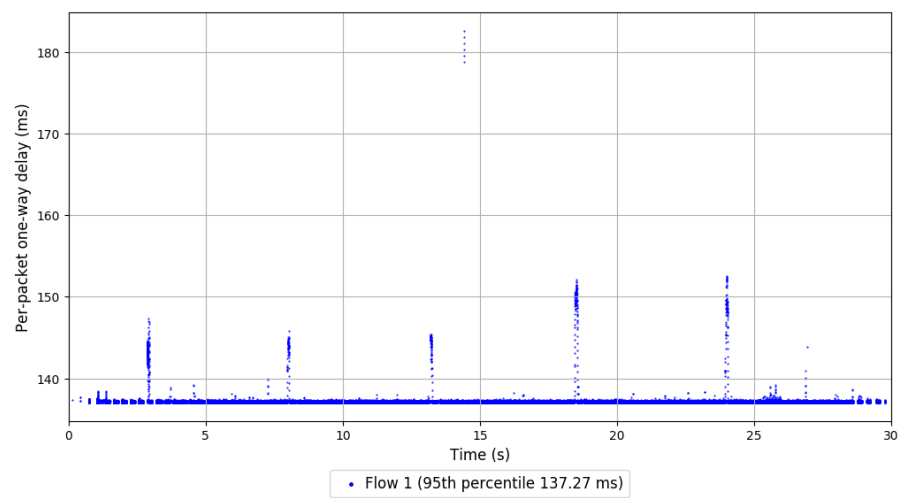
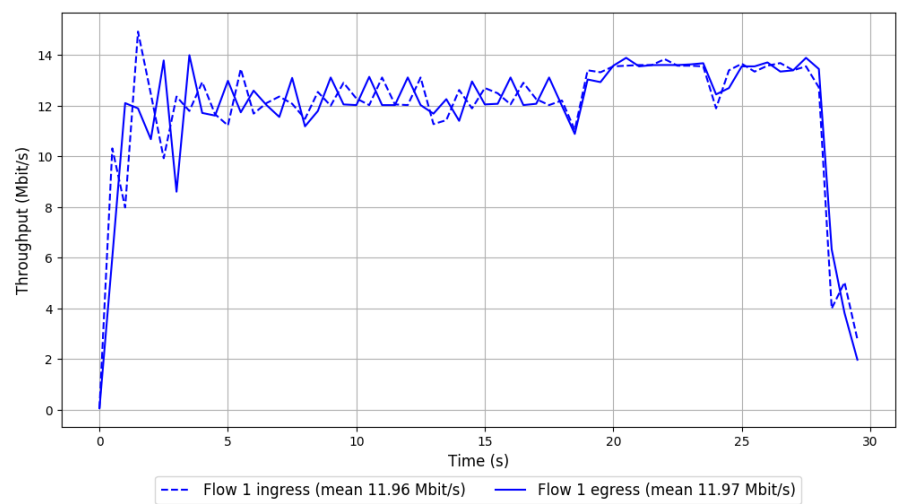


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-13 13:39:18
End at: 2018-02-13 13:39:49

# Below is generated by plot.py at 2018-02-13 16:43:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.97 Mbit/s
95th percentile per-packet one-way delay: 137.271 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 11.97 Mbit/s
95th percentile per-packet one-way delay: 137.271 ms
Loss rate: 0.36%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-13 11:16:01

End at: 2018-02-13 11:16:31

Below is generated by plot.py at 2018-02-13 16:43:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.45 Mbit/s

95th percentile per-packet one-way delay: 139.043 ms

Loss rate: 0.97%

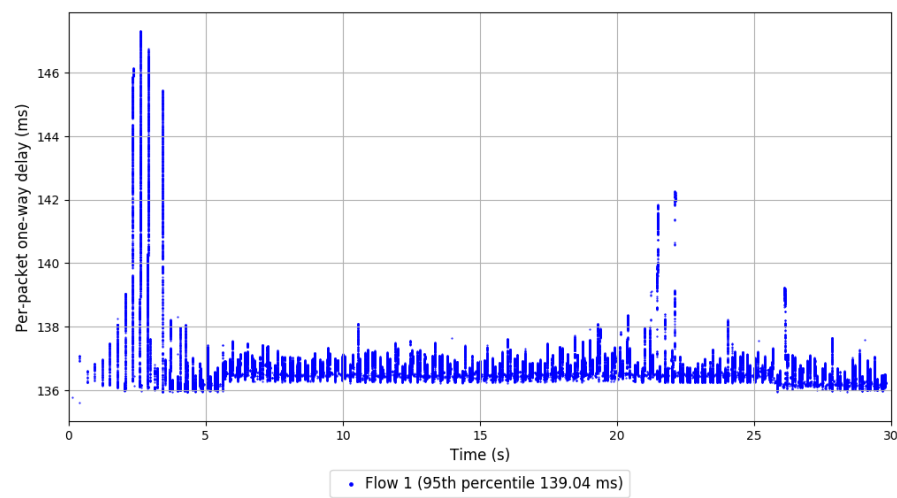
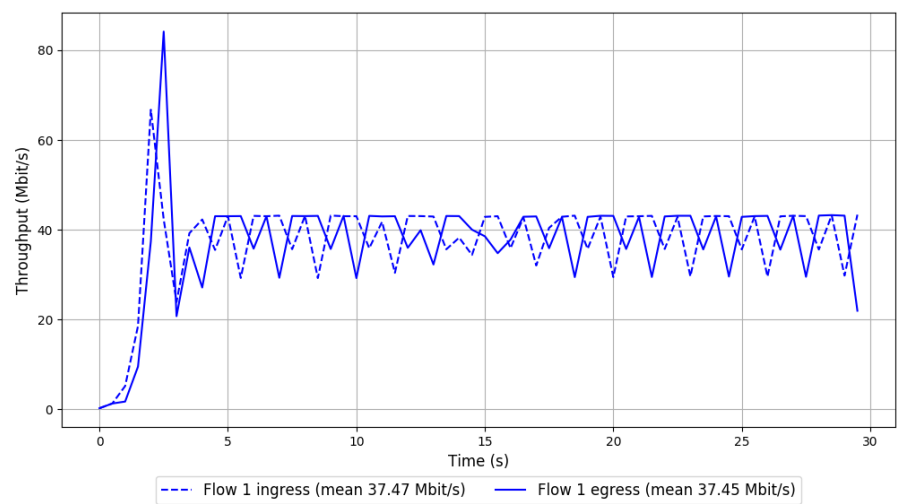
-- Flow 1:

Average throughput: 37.45 Mbit/s

95th percentile per-packet one-way delay: 139.043 ms

Loss rate: 0.97%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-13 11:31:51

End at: 2018-02-13 11:32:21

Below is generated by plot.py at 2018-02-13 16:43:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.23 Mbit/s

95th percentile per-packet one-way delay: 163.571 ms

Loss rate: 0.71%

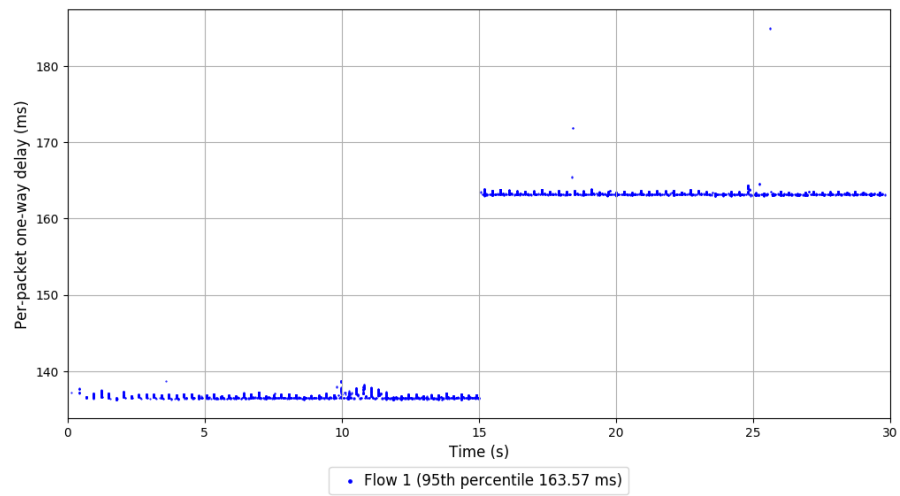
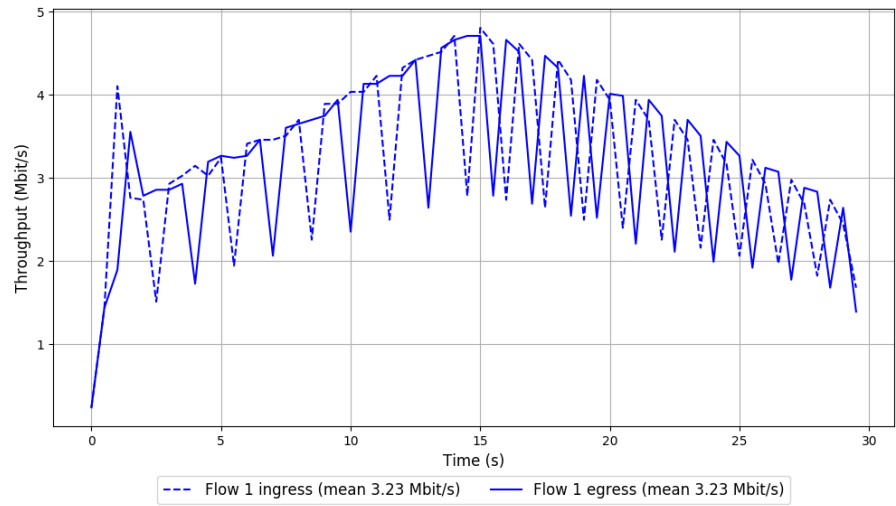
-- Flow 1:

Average throughput: 3.23 Mbit/s

95th percentile per-packet one-way delay: 163.571 ms

Loss rate: 0.71%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-13 11:47:10

End at: 2018-02-13 11:47:40

Below is generated by plot.py at 2018-02-13 16:43:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.67 Mbit/s

95th percentile per-packet one-way delay: 169.017 ms

Loss rate: 0.65%

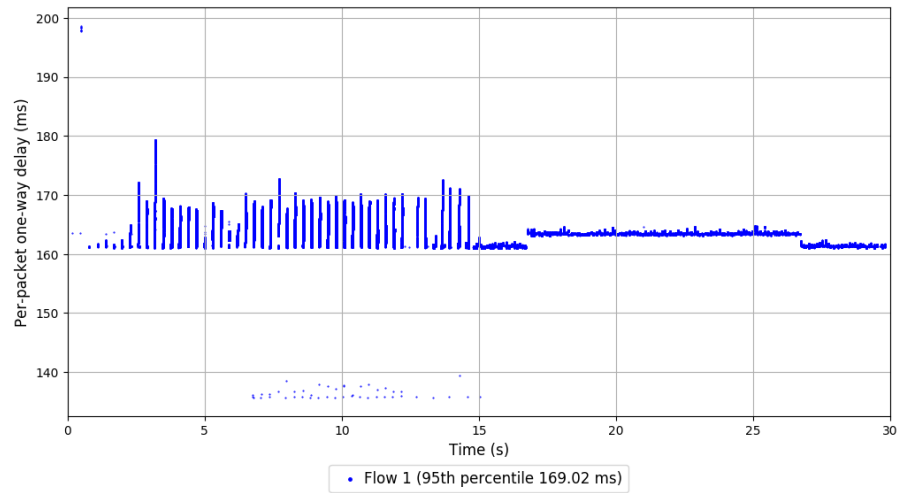
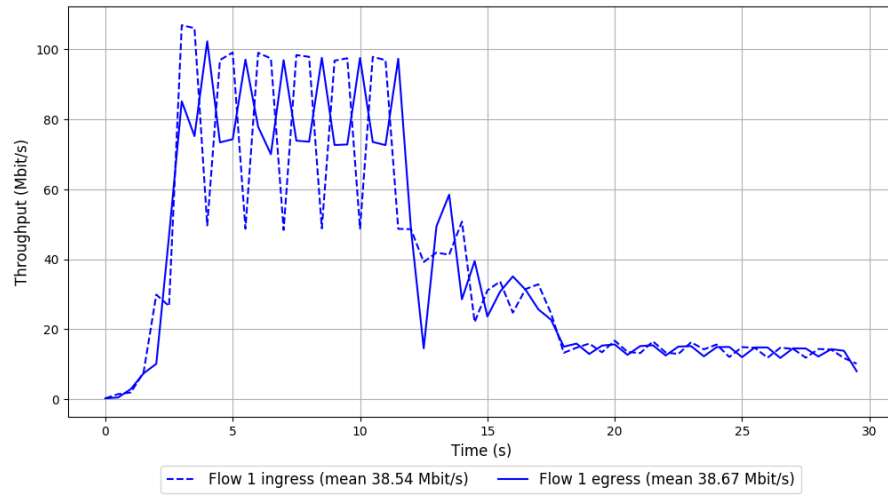
-- Flow 1:

Average throughput: 38.67 Mbit/s

95th percentile per-packet one-way delay: 169.017 ms

Loss rate: 0.65%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-13 12:02:45

End at: 2018-02-13 12:03:15

Below is generated by plot.py at 2018-02-13 16:43:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.43 Mbit/s

95th percentile per-packet one-way delay: 164.680 ms

Loss rate: 0.96%

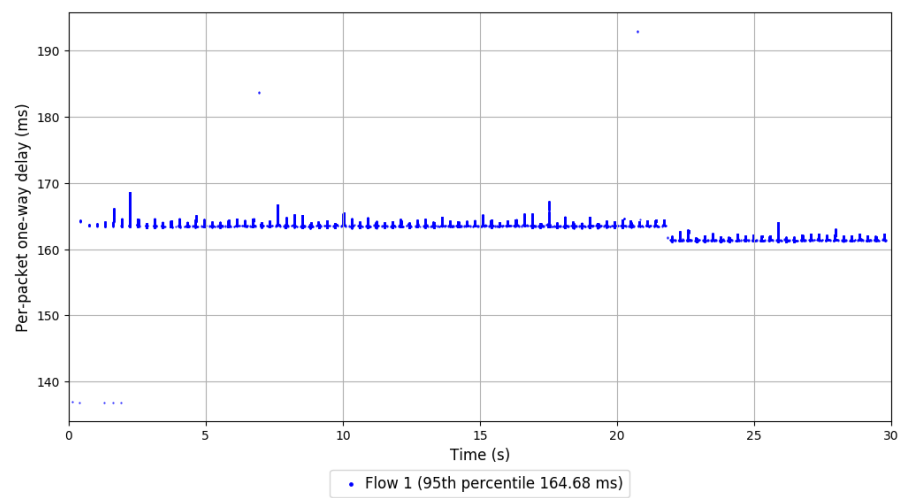
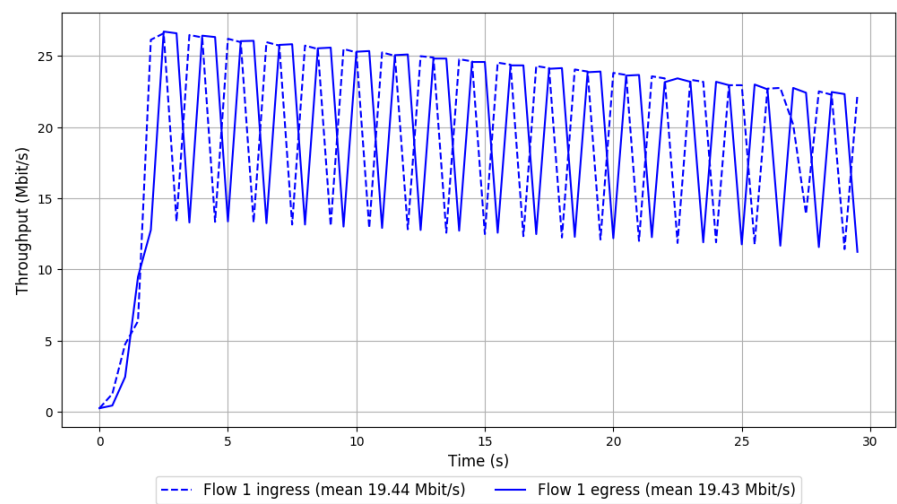
-- Flow 1:

Average throughput: 19.43 Mbit/s

95th percentile per-packet one-way delay: 164.680 ms

Loss rate: 0.96%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-13 12:18:24

End at: 2018-02-13 12:18:54

Below is generated by plot.py at 2018-02-13 16:43:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.51 Mbit/s

95th percentile per-packet one-way delay: 163.592 ms

Loss rate: 1.23%

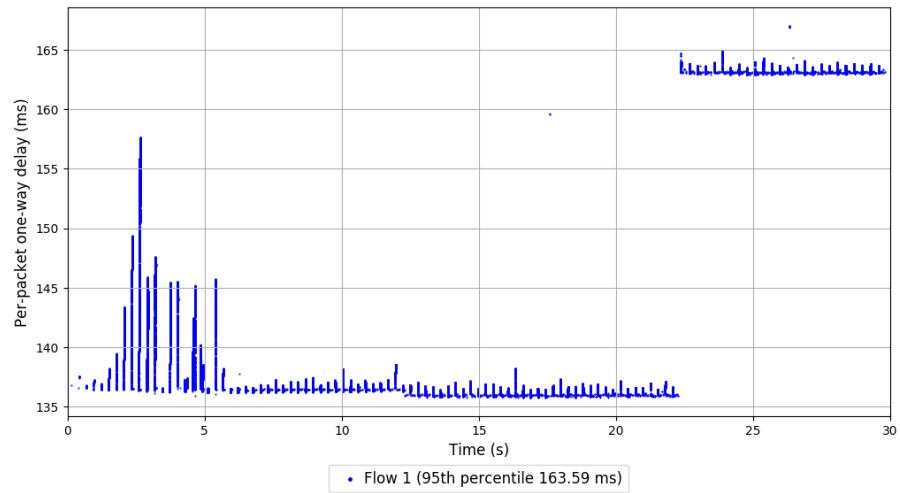
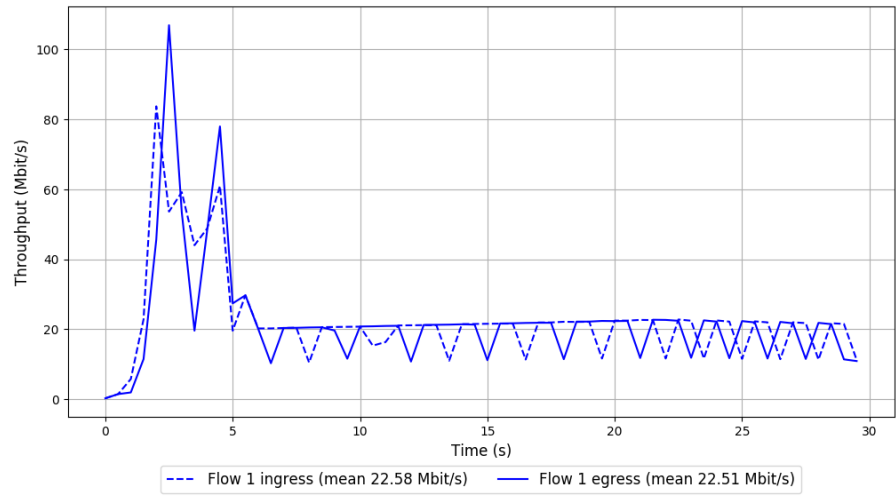
-- Flow 1:

Average throughput: 22.51 Mbit/s

95th percentile per-packet one-way delay: 163.592 ms

Loss rate: 1.23%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-13 12:34:22

End at: 2018-02-13 12:34:52

Below is generated by plot.py at 2018-02-13 16:43:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.08 Mbit/s

95th percentile per-packet one-way delay: 144.874 ms

Loss rate: 1.62%

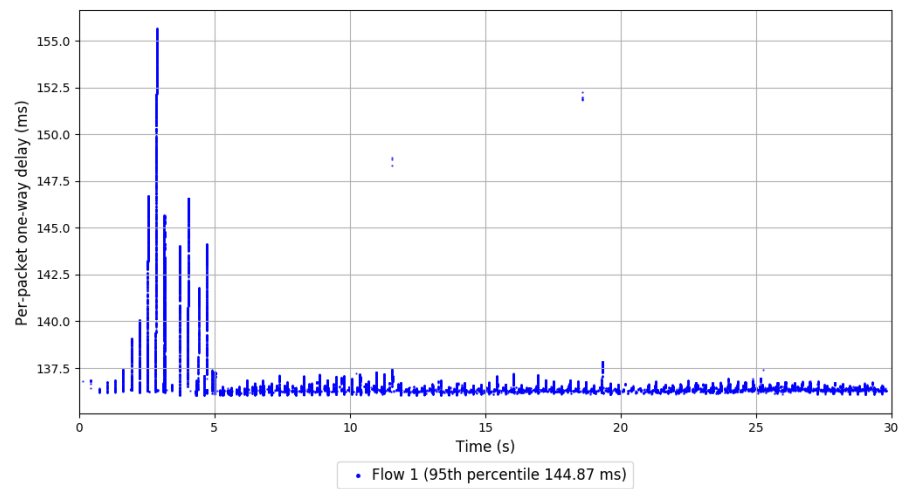
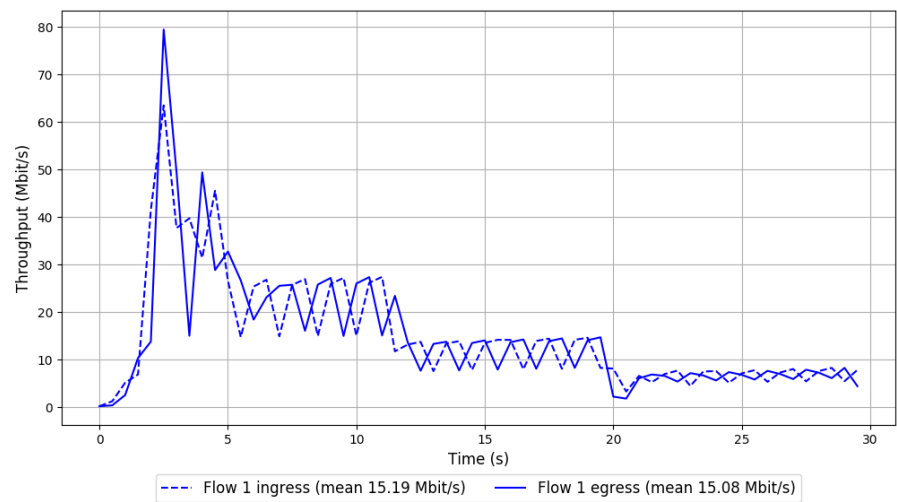
-- Flow 1:

Average throughput: 15.08 Mbit/s

95th percentile per-packet one-way delay: 144.874 ms

Loss rate: 1.62%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-13 12:49:36

End at: 2018-02-13 12:50:06

Below is generated by plot.py at 2018-02-13 16:43:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 162.953 ms

Loss rate: 1.08%

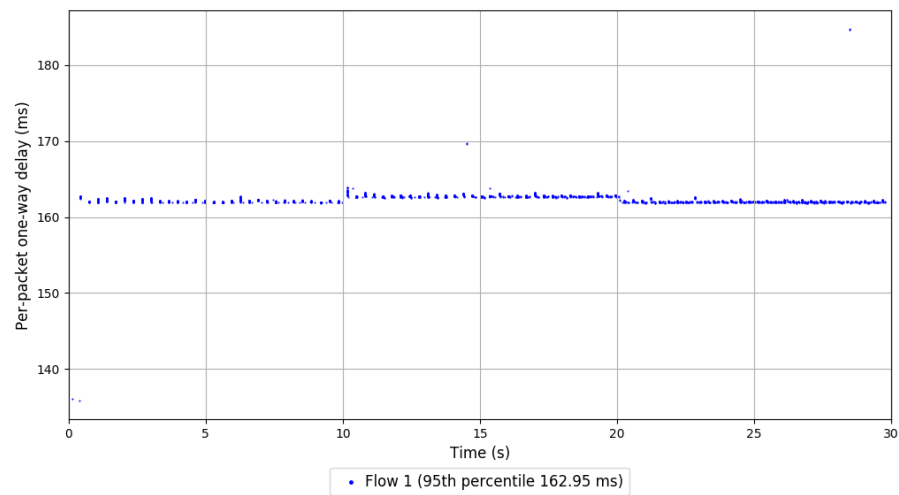
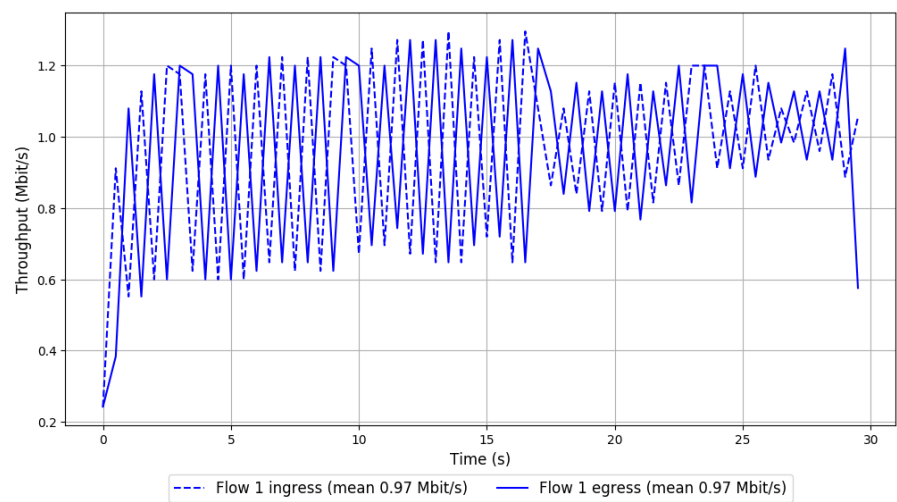
-- Flow 1:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 162.953 ms

Loss rate: 1.08%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

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

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

Below is generated by plot.py at 2018-02-13 16:43:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.24 Mbit/s

95th percentile per-packet one-way delay: 168.560 ms

Loss rate: 0.95%

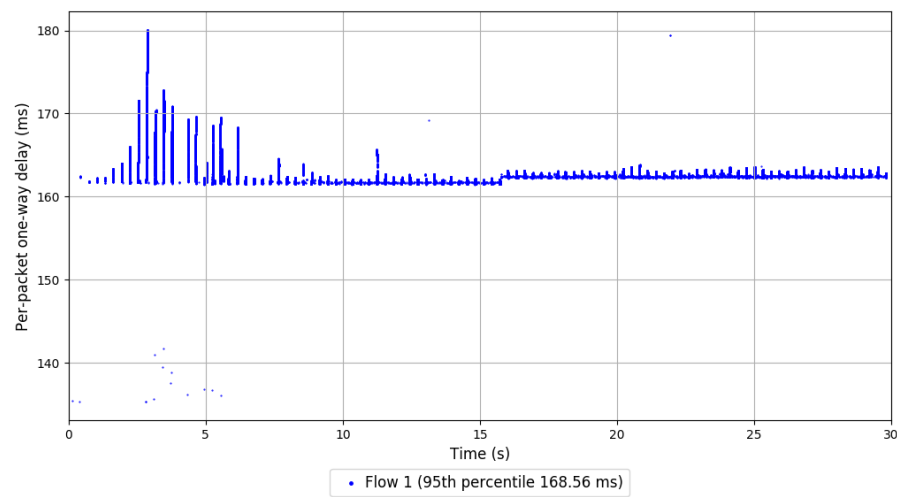
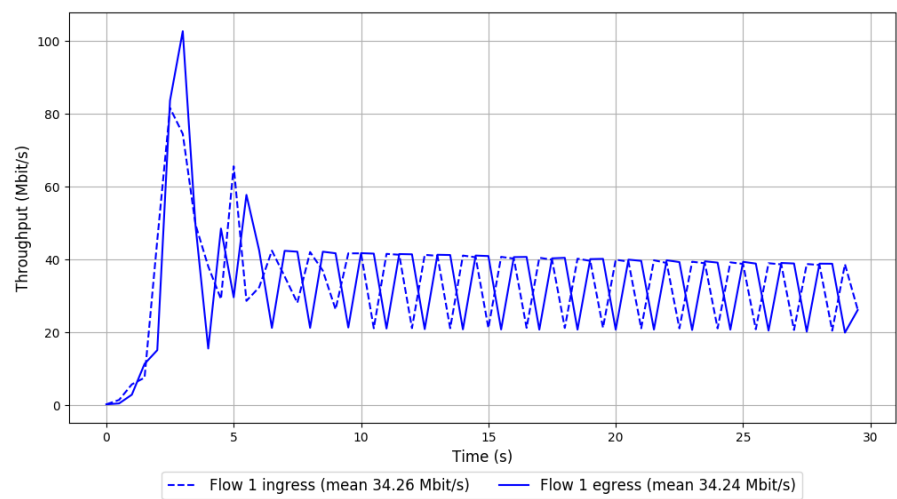
-- Flow 1:

Average throughput: 34.24 Mbit/s

95th percentile per-packet one-way delay: 168.560 ms

Loss rate: 0.95%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

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

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

Below is generated by plot.py at 2018-02-13 16:43:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.73 Mbit/s

95th percentile per-packet one-way delay: 163.559 ms

Loss rate: 1.43%

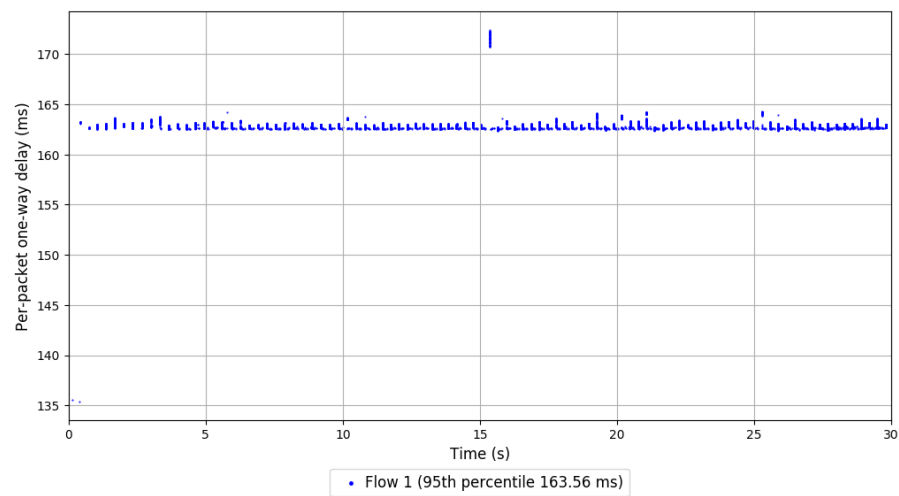
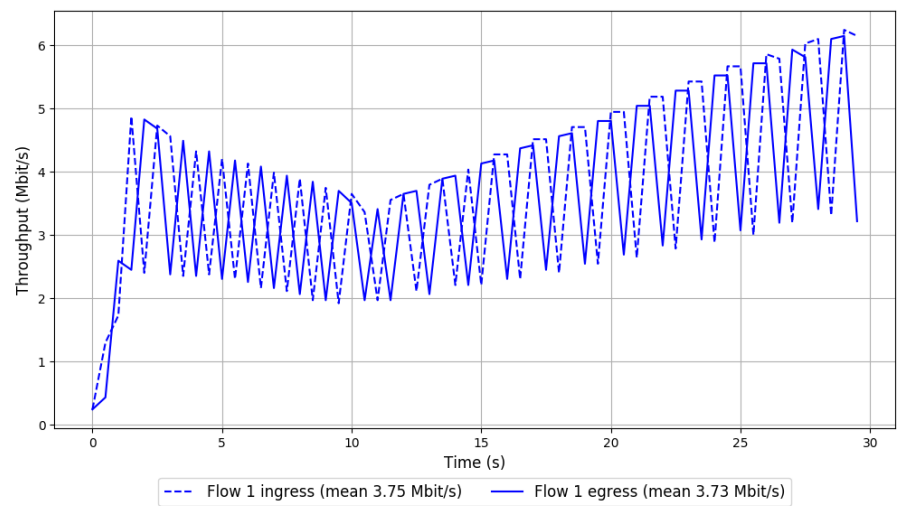
-- Flow 1:

Average throughput: 3.73 Mbit/s

95th percentile per-packet one-way delay: 163.559 ms

Loss rate: 1.43%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-13 13:35:55

End at: 2018-02-13 13:36:25

Below is generated by plot.py at 2018-02-13 16:43:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.20 Mbit/s

95th percentile per-packet one-way delay: 140.457 ms

Loss rate: 0.93%

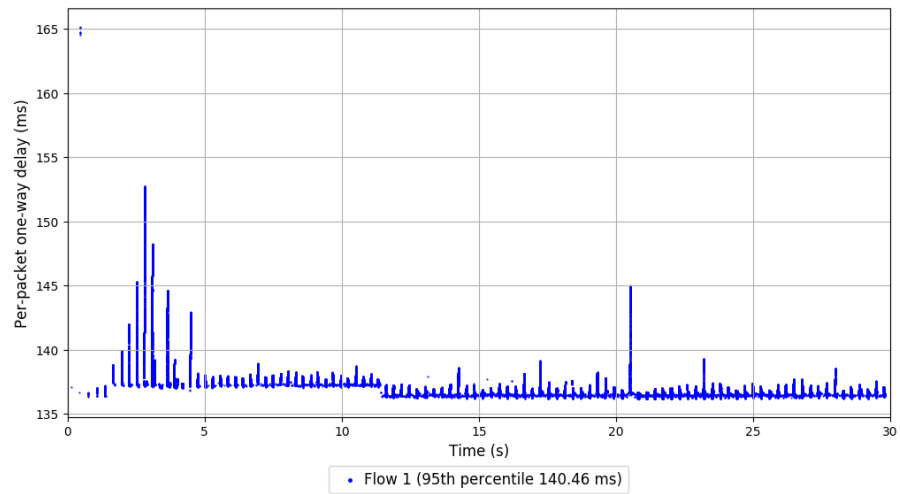
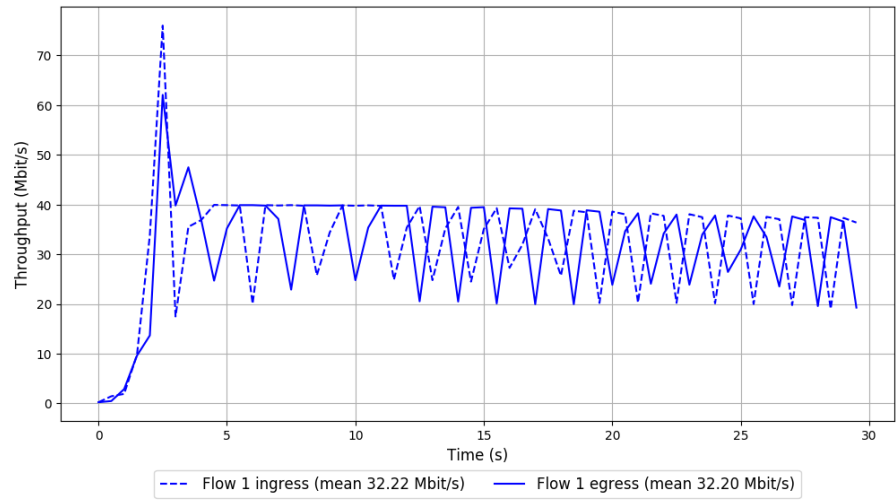
-- Flow 1:

Average throughput: 32.20 Mbit/s

95th percentile per-packet one-way delay: 140.457 ms

Loss rate: 0.93%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-13 11:10:31

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

Below is generated by plot.py at 2018-02-13 16:44:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 144.86 Mbit/s

95th percentile per-packet one-way delay: 158.761 ms

Loss rate: 2.06%

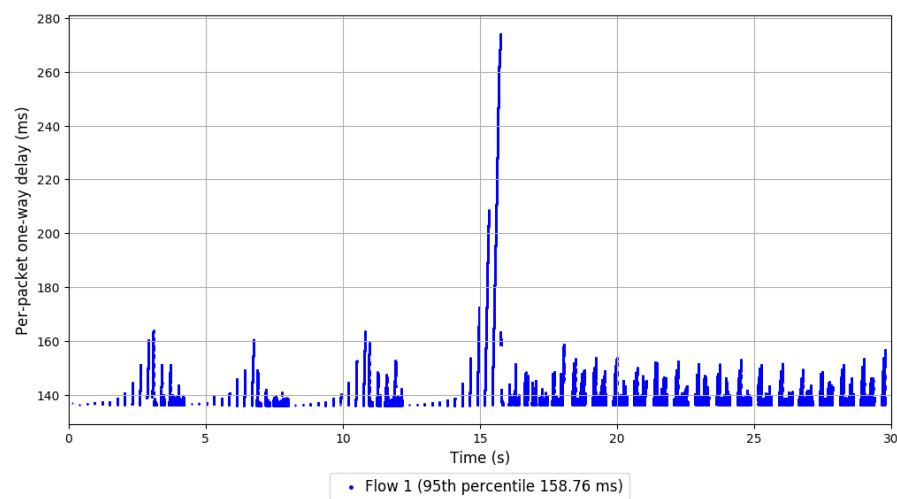
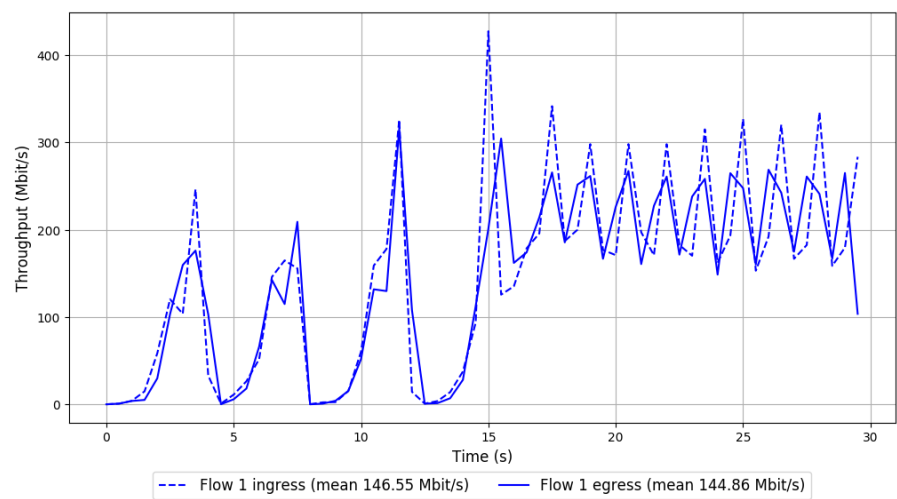
-- Flow 1:

Average throughput: 144.86 Mbit/s

95th percentile per-packet one-way delay: 158.761 ms

Loss rate: 2.06%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-13 11:26:35

End at: 2018-02-13 11:27:05

Below is generated by plot.py at 2018-02-13 16:44:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.69 Mbit/s

95th percentile per-packet one-way delay: 165.620 ms

Loss rate: 0.08%

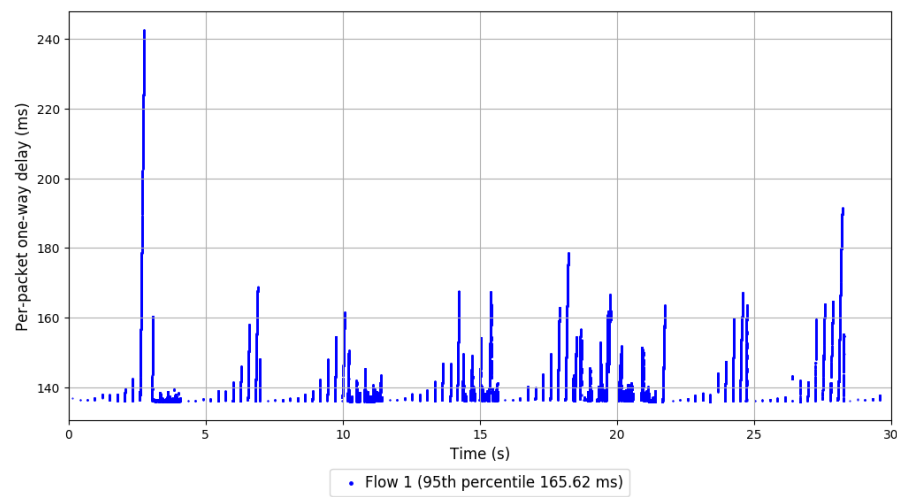
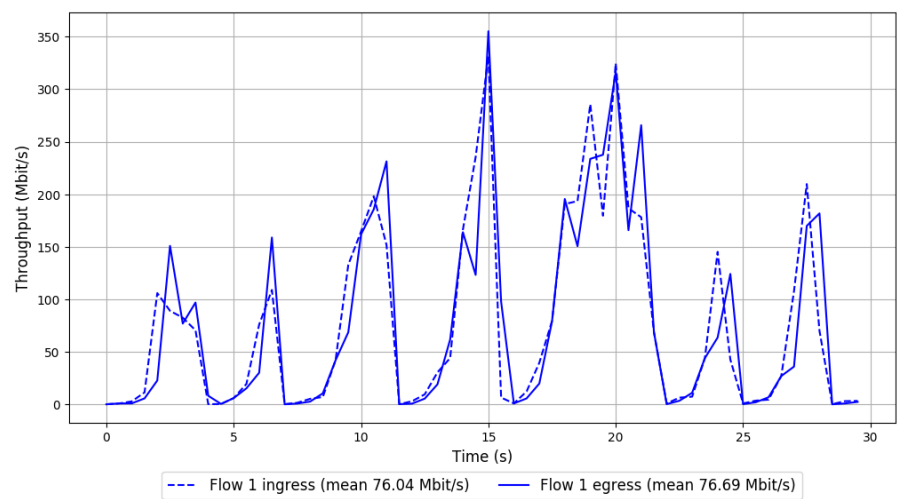
-- Flow 1:

Average throughput: 76.69 Mbit/s

95th percentile per-packet one-way delay: 165.620 ms

Loss rate: 0.08%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-13 11:41:59

End at: 2018-02-13 11:42:29

Below is generated by plot.py at 2018-02-13 16:45:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.82 Mbit/s

95th percentile per-packet one-way delay: 253.965 ms

Loss rate: 1.55%

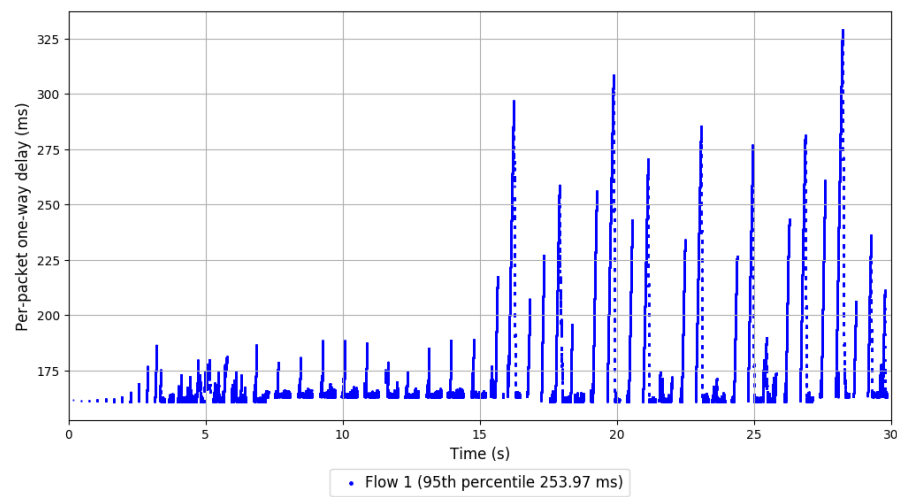
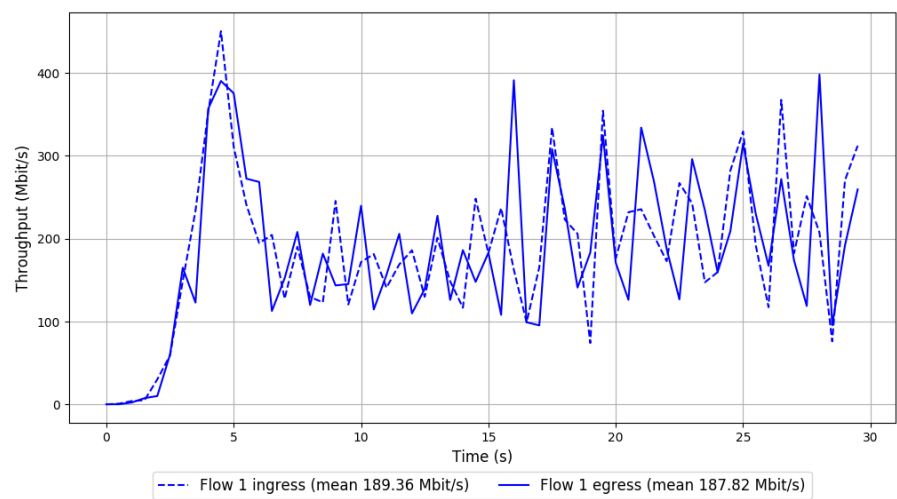
-- Flow 1:

Average throughput: 187.82 Mbit/s

95th percentile per-packet one-way delay: 253.965 ms

Loss rate: 1.55%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-13 11:57:30

End at: 2018-02-13 11:58:00

Below is generated by plot.py at 2018-02-13 16:45:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.40 Mbit/s

95th percentile per-packet one-way delay: 227.963 ms

Loss rate: 0.91%

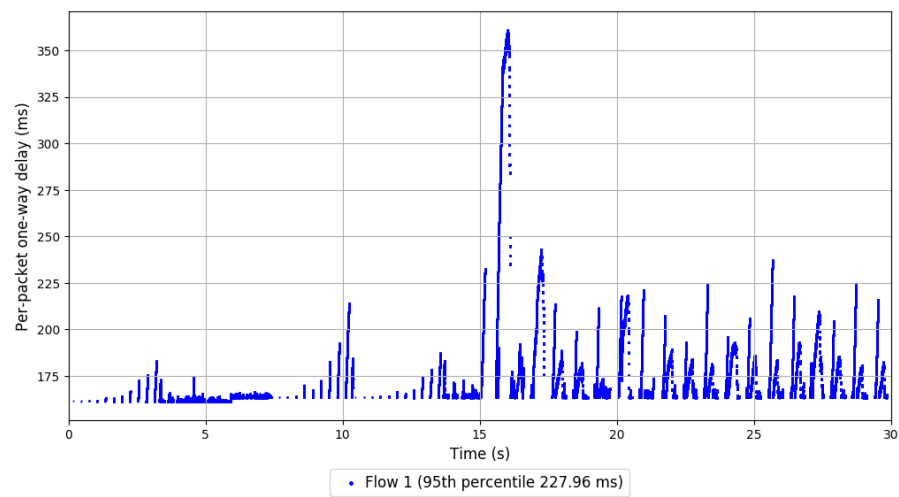
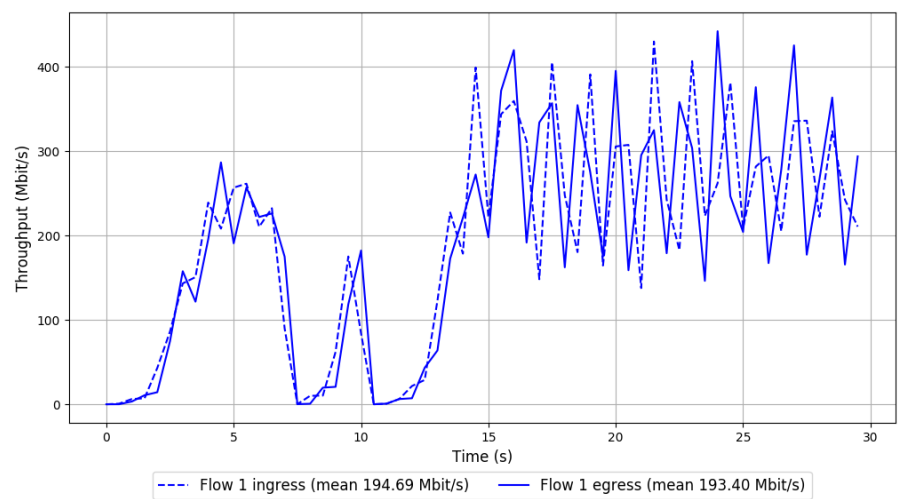
-- Flow 1:

Average throughput: 193.40 Mbit/s

95th percentile per-packet one-way delay: 227.963 ms

Loss rate: 0.91%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

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

End at: 2018-02-13 12:13:32

Below is generated by plot.py at 2018-02-13 16:46:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.63 Mbit/s

95th percentile per-packet one-way delay: 210.945 ms

Loss rate: 2.42%

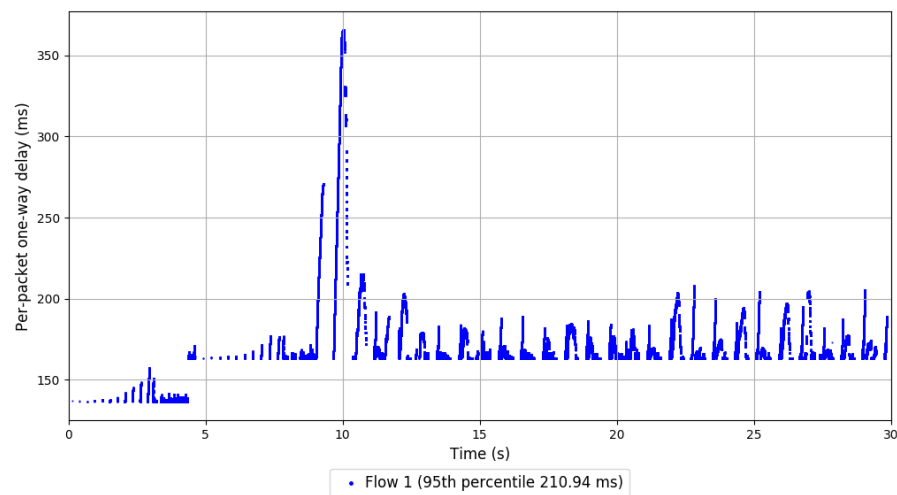
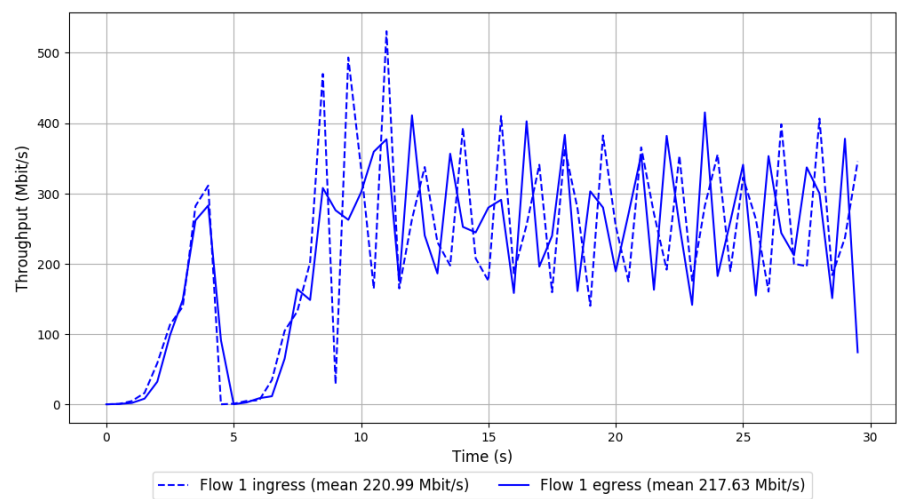
-- Flow 1:

Average throughput: 217.63 Mbit/s

95th percentile per-packet one-way delay: 210.945 ms

Loss rate: 2.42%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-13 12:28:46

End at: 2018-02-13 12:29:16

Below is generated by plot.py at 2018-02-13 16:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 287.25 Mbit/s

95th percentile per-packet one-way delay: 351.762 ms

Loss rate: 11.02%

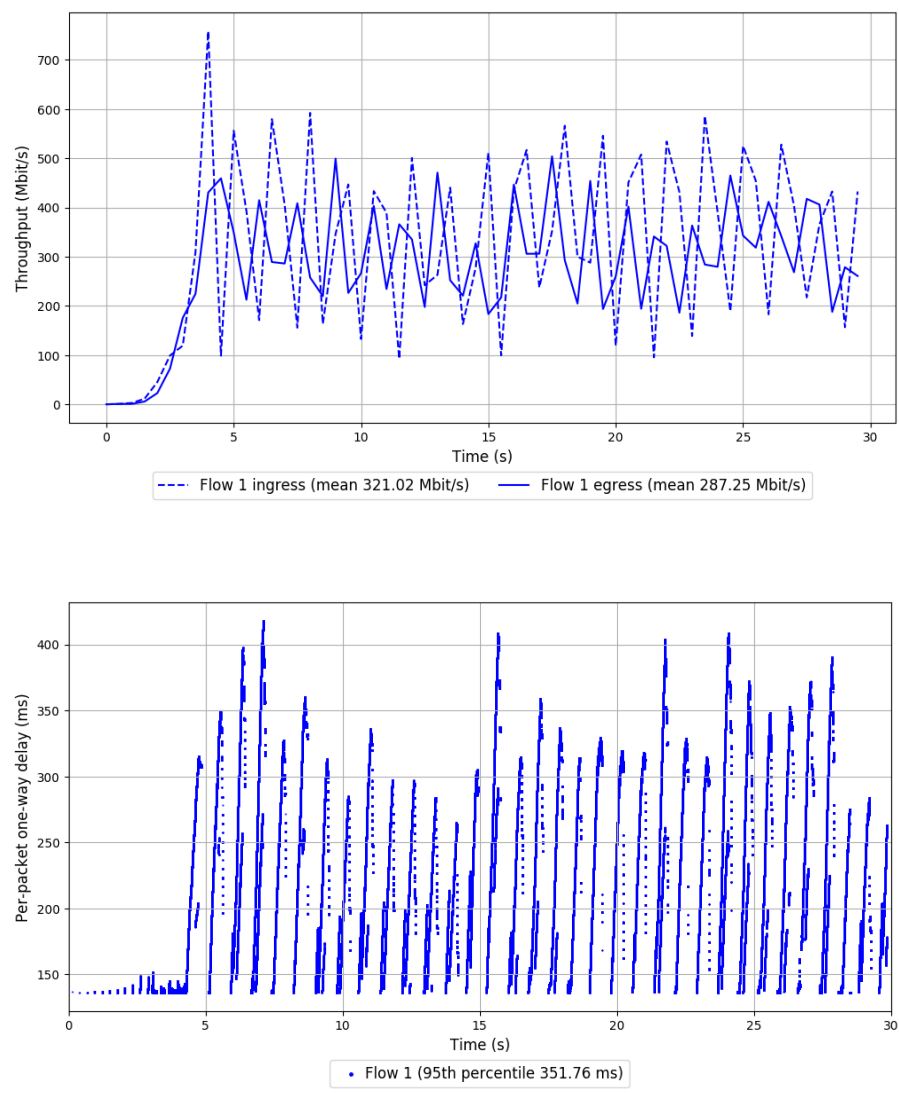
-- Flow 1:

Average throughput: 287.25 Mbit/s

95th percentile per-packet one-way delay: 351.762 ms

Loss rate: 11.02%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-13 12:44:40

End at: 2018-02-13 12:45:10

Below is generated by plot.py at 2018-02-13 16:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.97 Mbit/s

95th percentile per-packet one-way delay: 183.225 ms

Loss rate: 2.88%

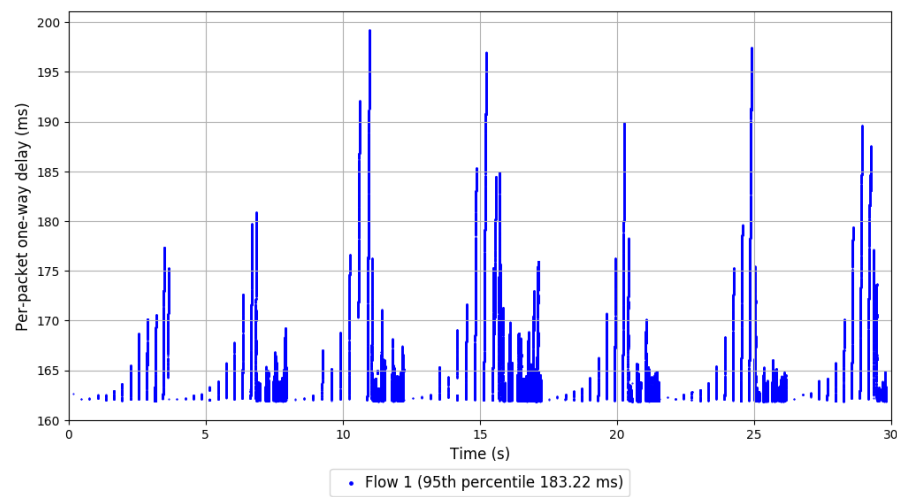
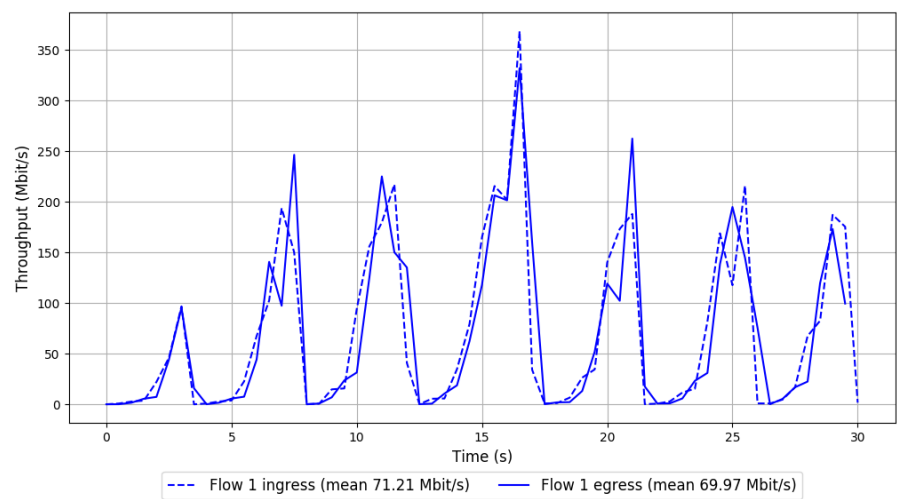
-- Flow 1:

Average throughput: 69.97 Mbit/s

95th percentile per-packet one-way delay: 183.225 ms

Loss rate: 2.88%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-13 12:59:49

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

Below is generated by plot.py at 2018-02-13 16:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.33 Mbit/s

95th percentile per-packet one-way delay: 188.196 ms

Loss rate: 3.87%

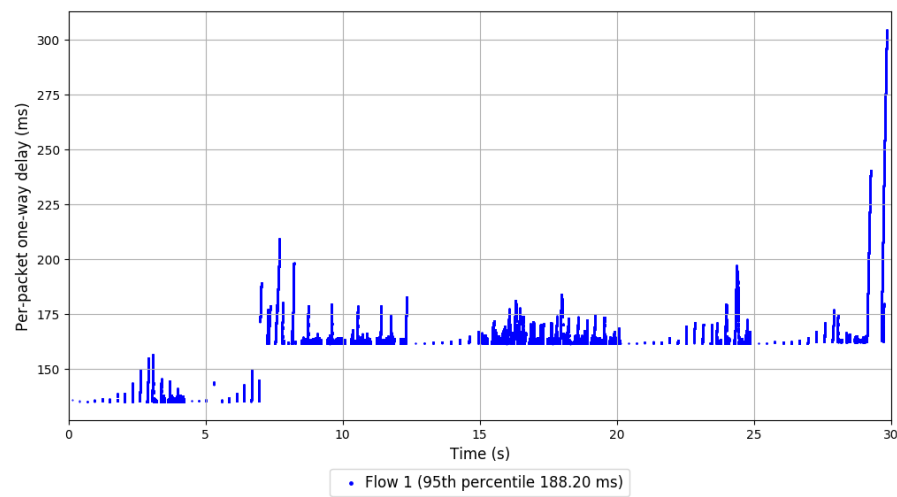
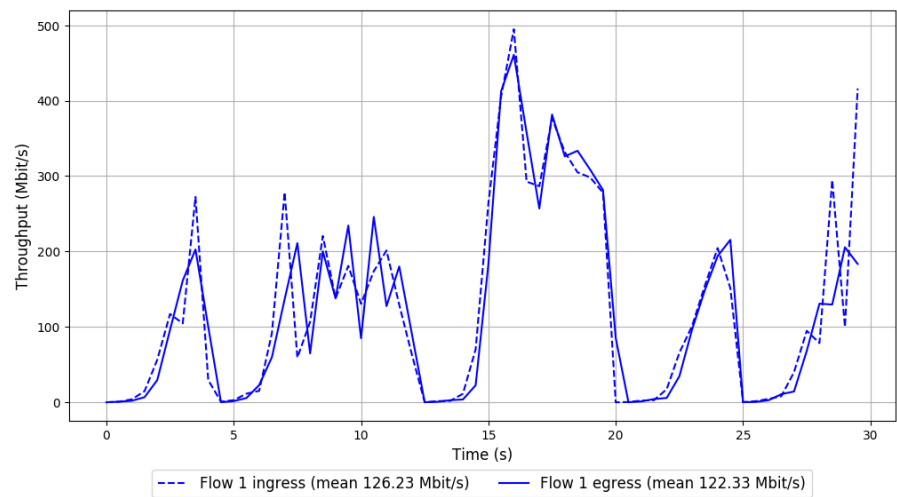
-- Flow 1:

Average throughput: 122.33 Mbit/s

95th percentile per-packet one-way delay: 188.196 ms

Loss rate: 3.87%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

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

End at: 2018-02-13 13:15:44

Below is generated by plot.py at 2018-02-13 16:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.07 Mbit/s

95th percentile per-packet one-way delay: 265.052 ms

Loss rate: 3.67%

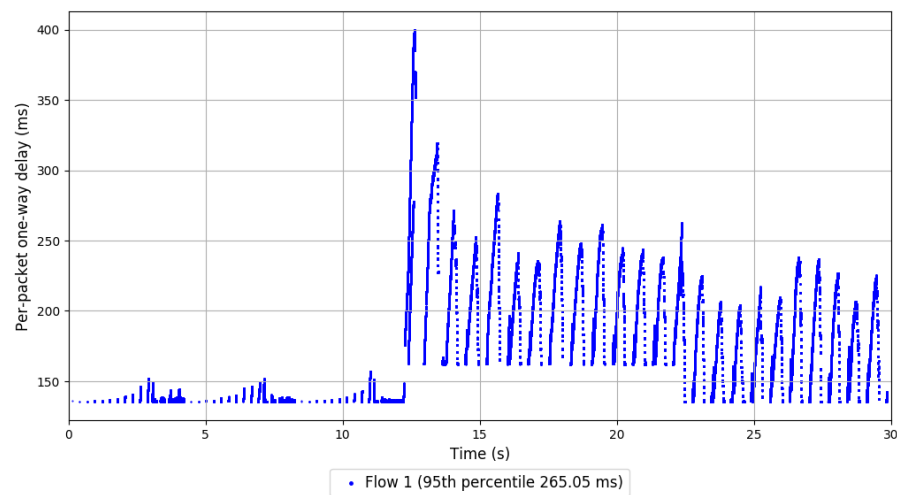
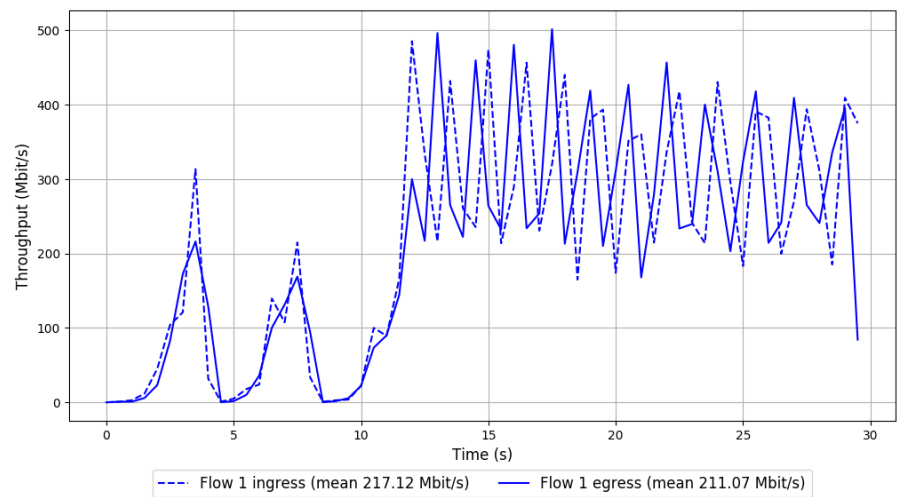
-- Flow 1:

Average throughput: 211.07 Mbit/s

95th percentile per-packet one-way delay: 265.052 ms

Loss rate: 3.67%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-13 13:30:33

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

Below is generated by plot.py at 2018-02-13 16:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.39 Mbit/s

95th percentile per-packet one-way delay: 202.814 ms

Loss rate: 1.73%

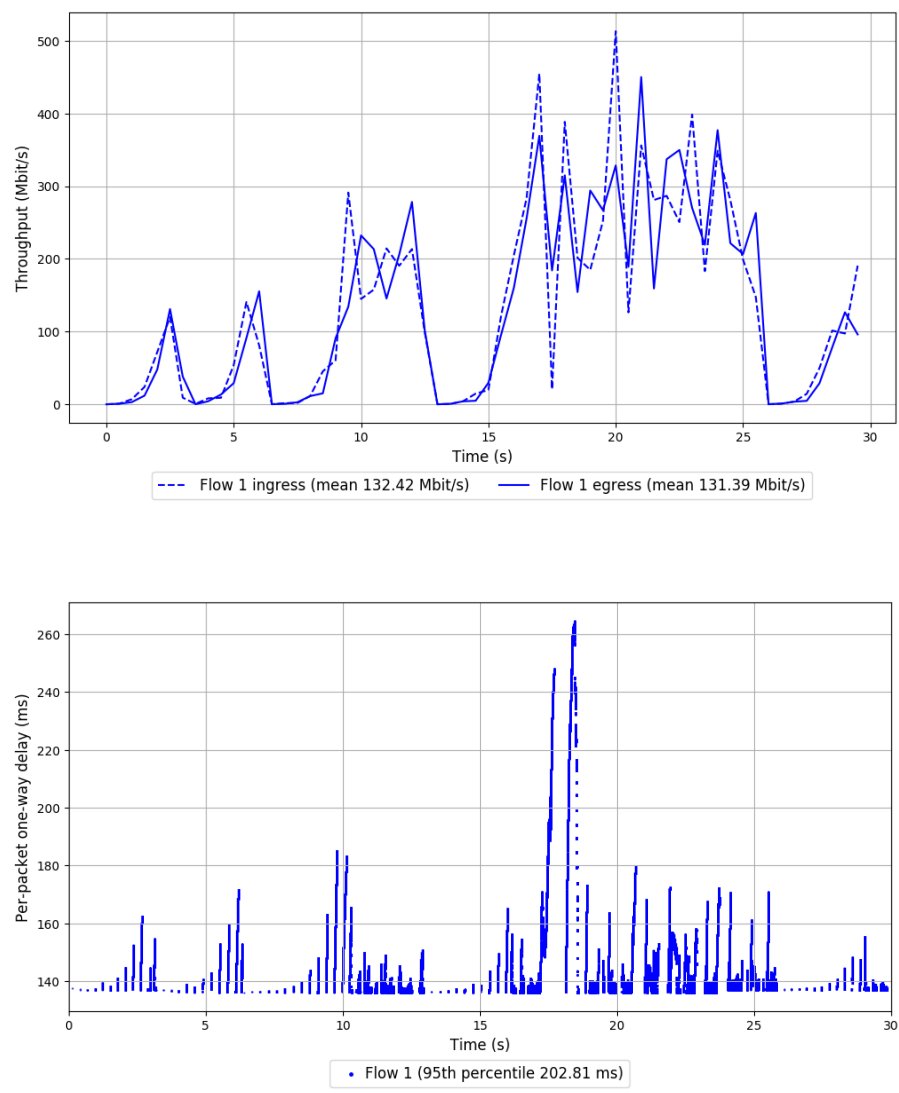
-- Flow 1:

Average throughput: 131.39 Mbit/s

95th percentile per-packet one-way delay: 202.814 ms

Loss rate: 1.73%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

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

End at: 2018-02-13 11:14:41

Below is generated by plot.py at 2018-02-13 16:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.42 Mbit/s

95th percentile per-packet one-way delay: 136.586 ms

Loss rate: 1.04%

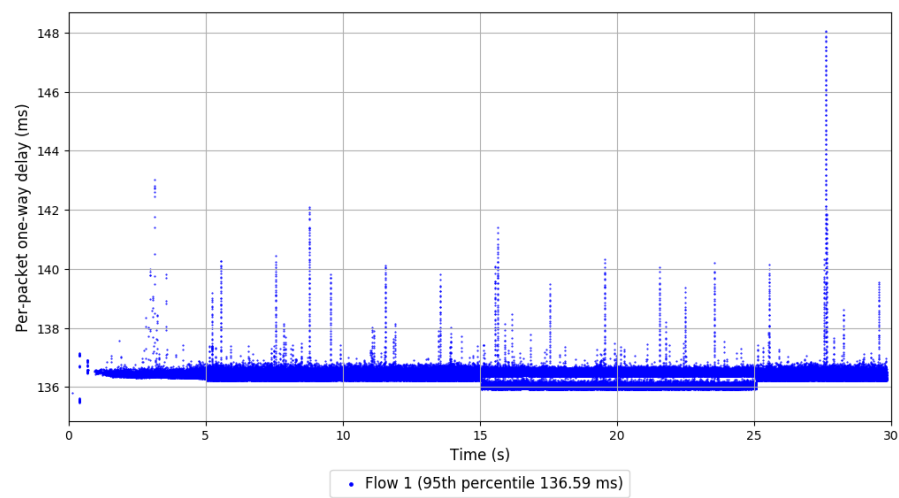
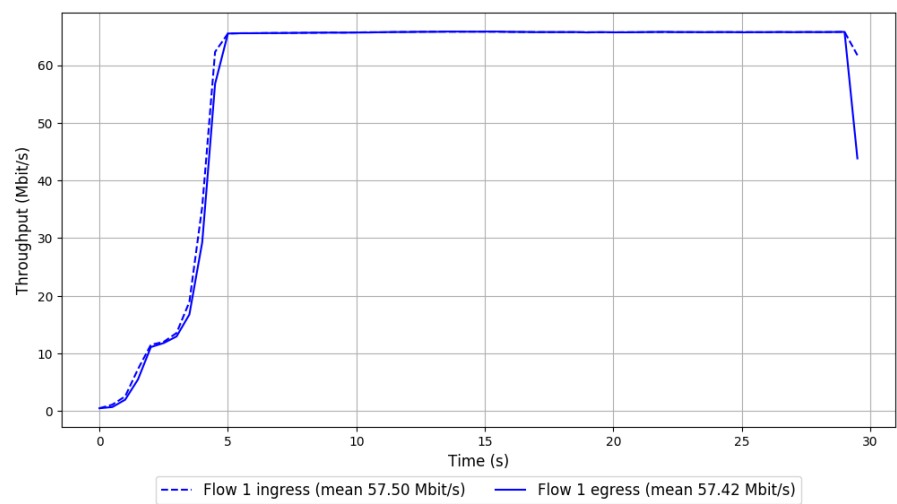
-- Flow 1:

Average throughput: 57.42 Mbit/s

95th percentile per-packet one-way delay: 136.586 ms

Loss rate: 1.04%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-13 11:30:03

End at: 2018-02-13 11:30:33

Below is generated by plot.py at 2018-02-13 16:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.21 Mbit/s

95th percentile per-packet one-way delay: 163.016 ms

Loss rate: 0.98%

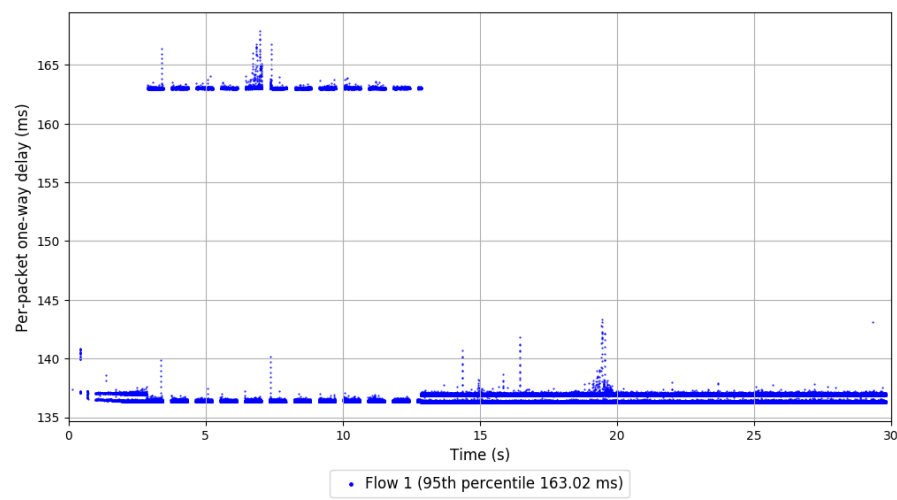
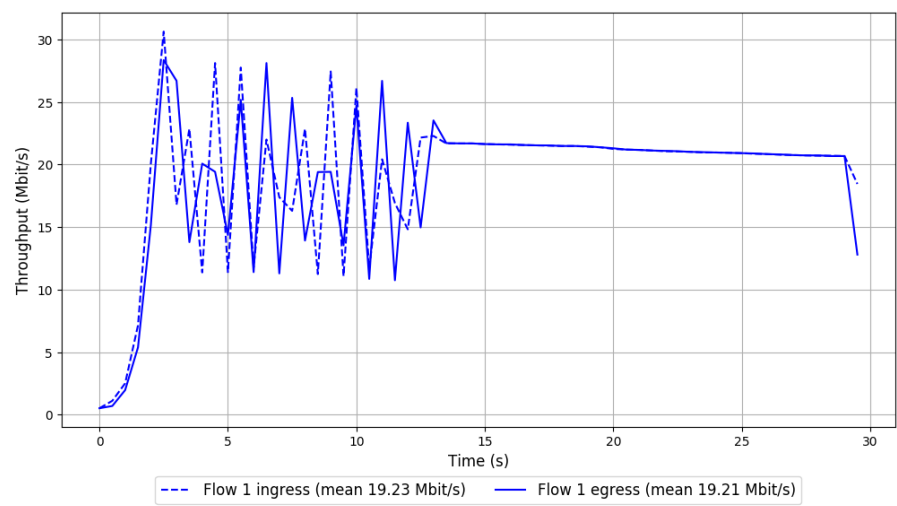
-- Flow 1:

Average throughput: 19.21 Mbit/s

95th percentile per-packet one-way delay: 163.016 ms

Loss rate: 0.98%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-13 11:45:41

End at: 2018-02-13 11:46:11

Below is generated by plot.py at 2018-02-13 16:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.62 Mbit/s

95th percentile per-packet one-way delay: 163.191 ms

Loss rate: 0.65%

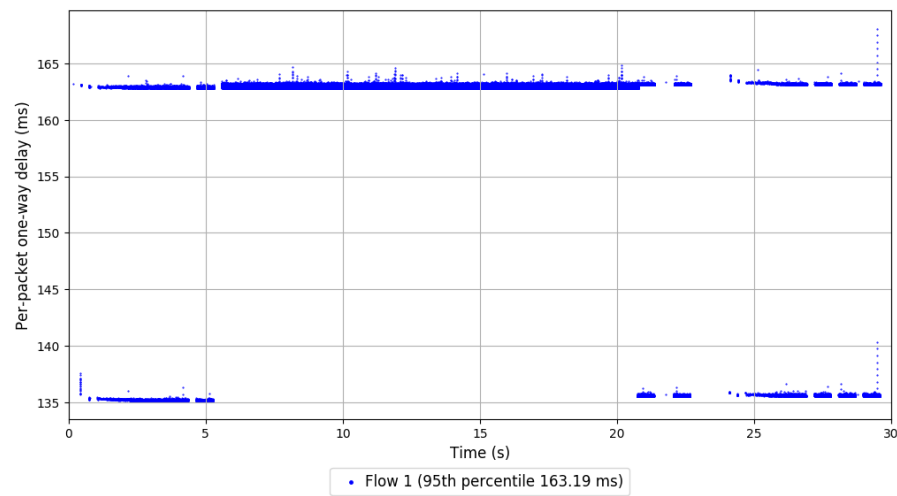
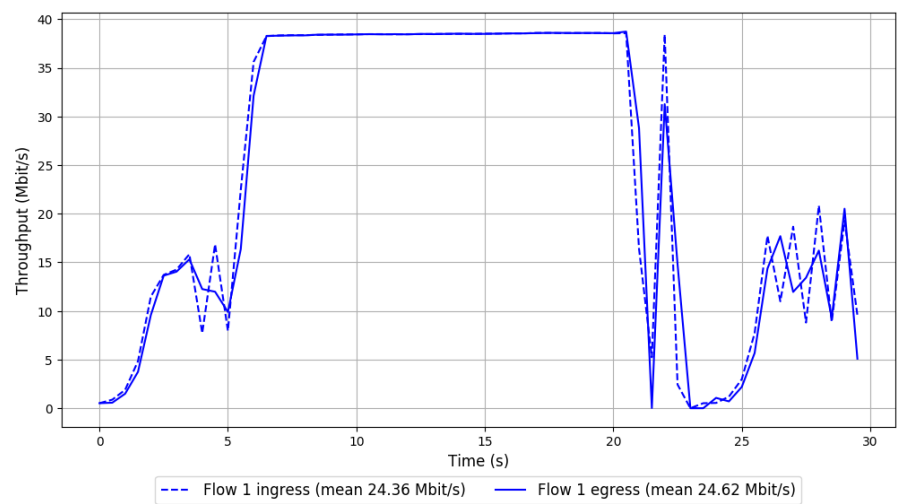
-- Flow 1:

Average throughput: 24.62 Mbit/s

95th percentile per-packet one-way delay: 163.191 ms

Loss rate: 0.65%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-13 12:01:17

End at: 2018-02-13 12:01:47

Below is generated by plot.py at 2018-02-13 16:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.30 Mbit/s

95th percentile per-packet one-way delay: 161.198 ms

Loss rate: 0.83%

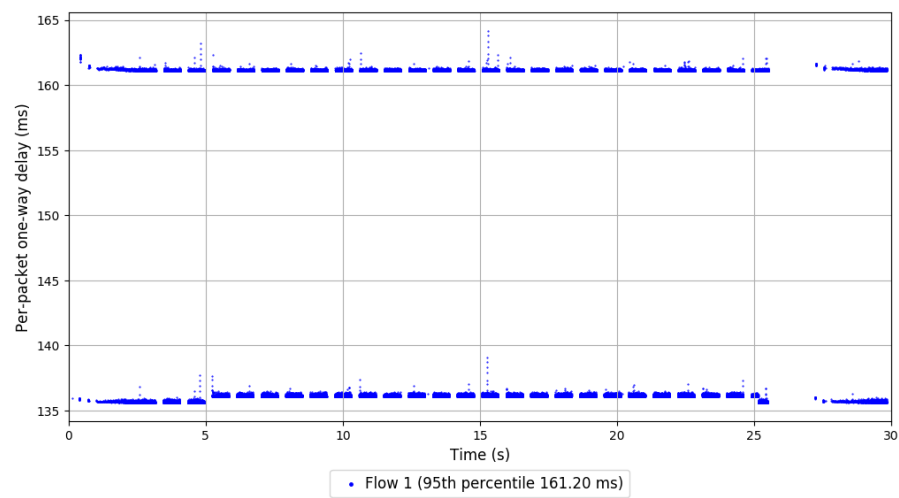
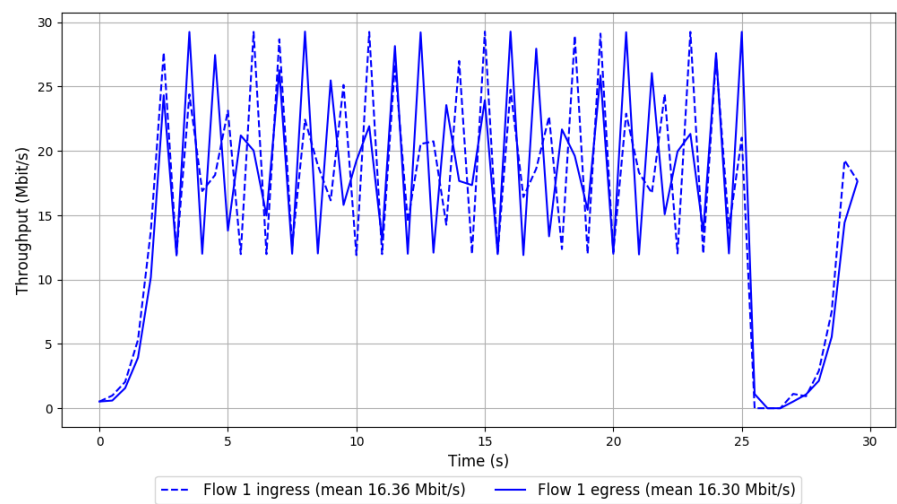
-- Flow 1:

Average throughput: 16.30 Mbit/s

95th percentile per-packet one-way delay: 161.198 ms

Loss rate: 0.83%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-13 12:16:32

End at: 2018-02-13 12:17:02

Below is generated by plot.py at 2018-02-13 16:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.57 Mbit/s

95th percentile per-packet one-way delay: 163.016 ms

Loss rate: 0.63%

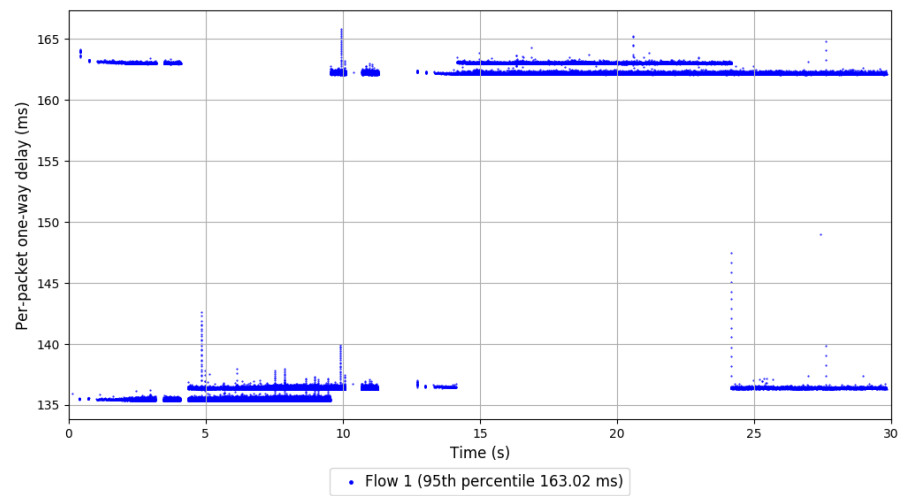
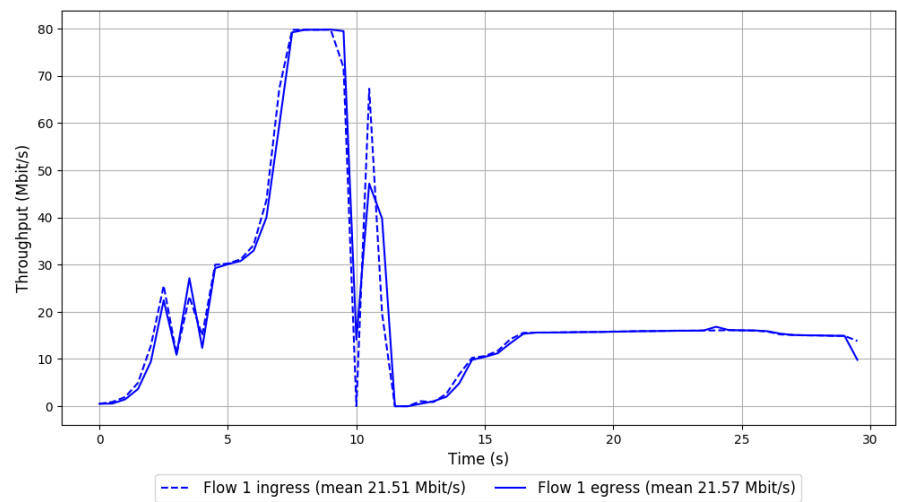
-- Flow 1:

Average throughput: 21.57 Mbit/s

95th percentile per-packet one-way delay: 163.016 ms

Loss rate: 0.63%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-13 12:32:34

End at: 2018-02-13 12:33:04

Below is generated by plot.py at 2018-02-13 16:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.60 Mbit/s

95th percentile per-packet one-way delay: 162.740 ms

Loss rate: 1.05%

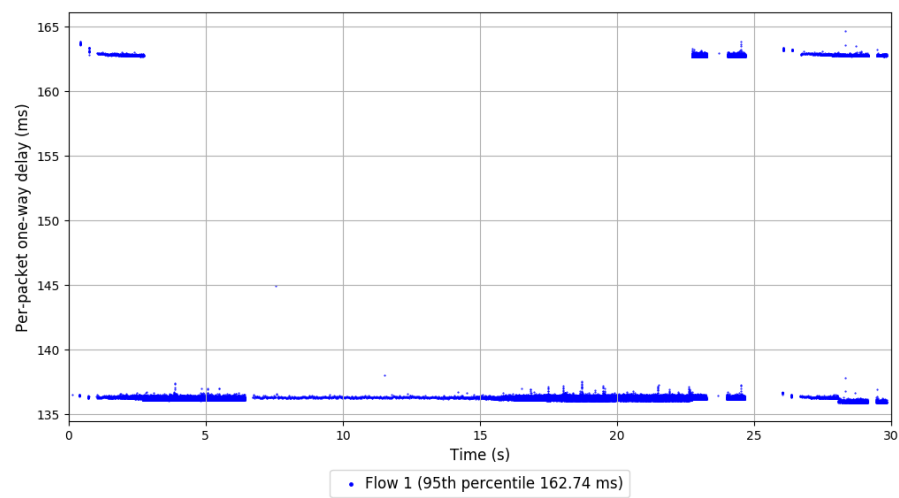
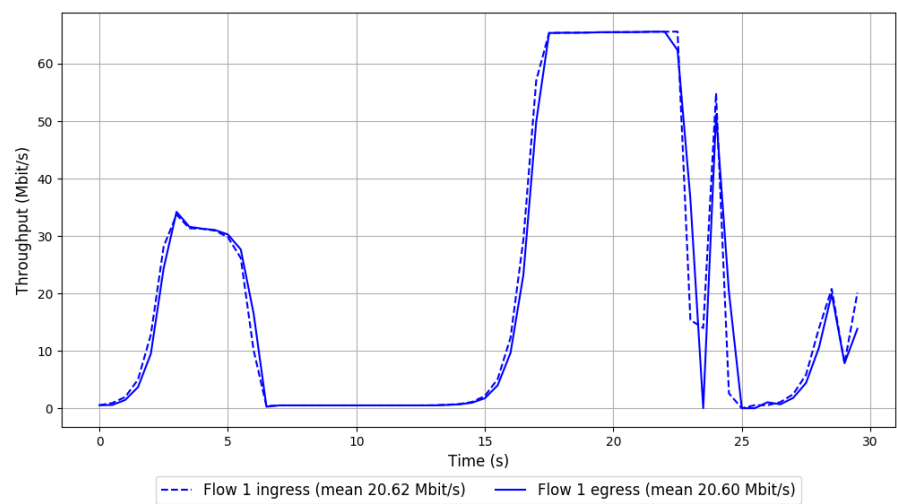
-- Flow 1:

Average throughput: 20.60 Mbit/s

95th percentile per-packet one-way delay: 162.740 ms

Loss rate: 1.05%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-13 12:48:08

End at: 2018-02-13 12:48:38

Below is generated by plot.py at 2018-02-13 16:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.75 Mbit/s

95th percentile per-packet one-way delay: 162.022 ms

Loss rate: 1.93%

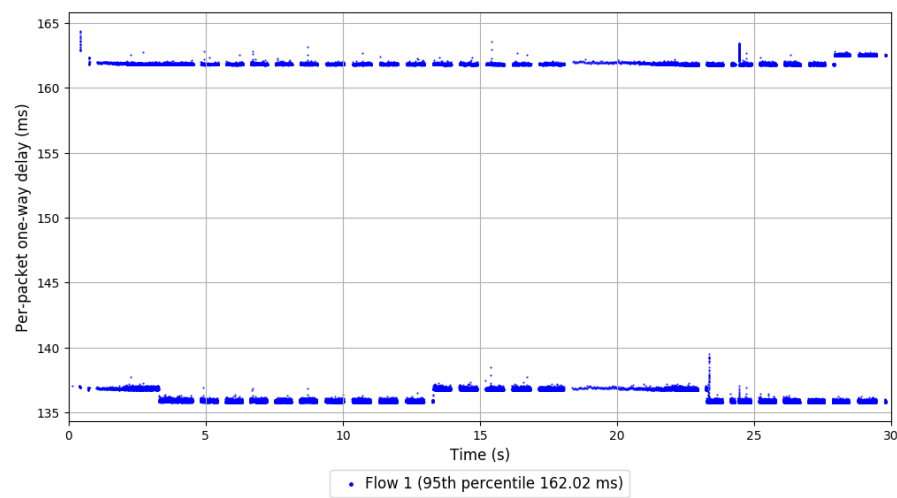
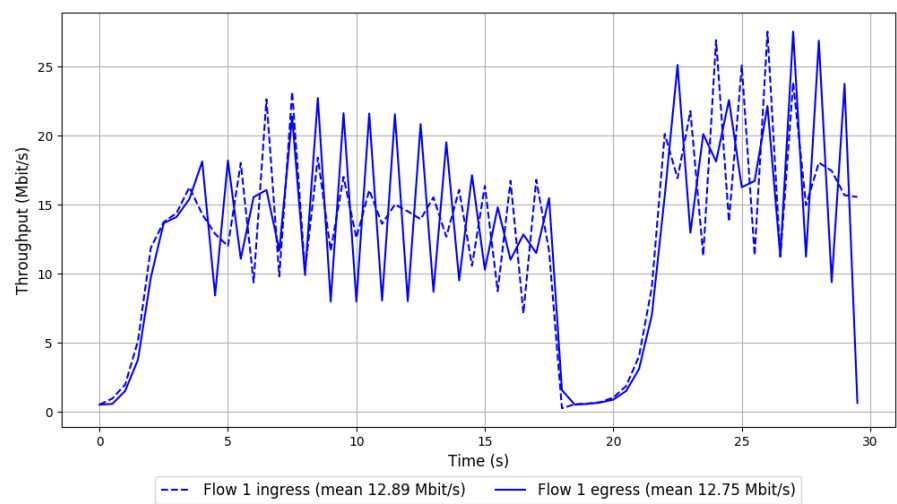
-- Flow 1:

Average throughput: 12.75 Mbit/s

95th percentile per-packet one-way delay: 162.022 ms

Loss rate: 1.93%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

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

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

Below is generated by plot.py at 2018-02-13 16:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.43 Mbit/s

95th percentile per-packet one-way delay: 161.637 ms

Loss rate: 0.99%

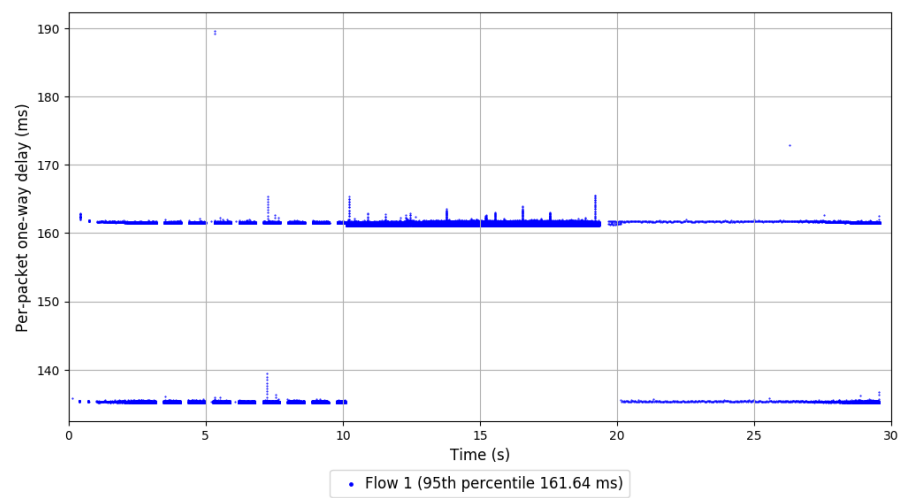
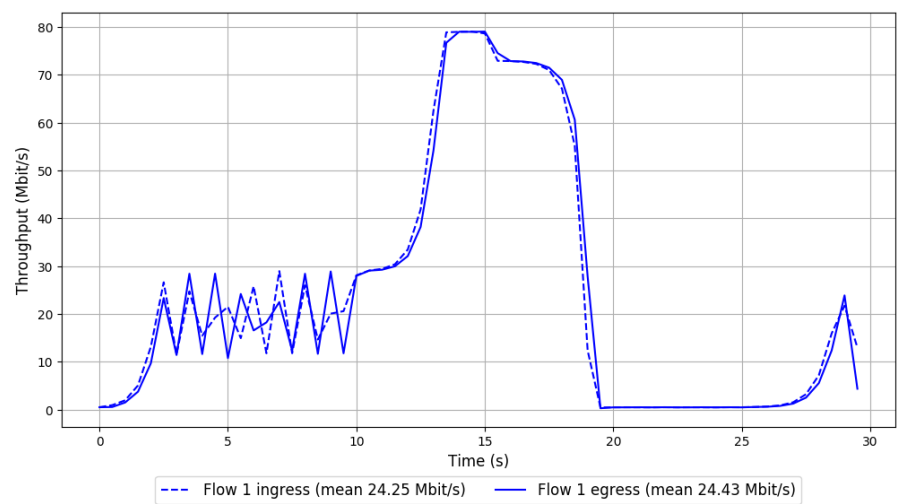
-- Flow 1:

Average throughput: 24.43 Mbit/s

95th percentile per-packet one-way delay: 161.637 ms

Loss rate: 0.99%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-13 13:18:47

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

Below is generated by plot.py at 2018-02-13 16:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.88 Mbit/s

95th percentile per-packet one-way delay: 162.292 ms

Loss rate: 0.03%

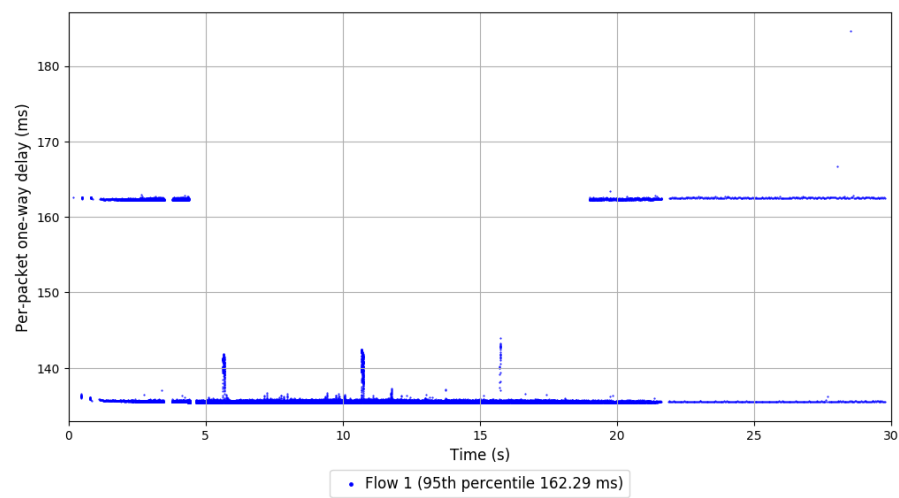
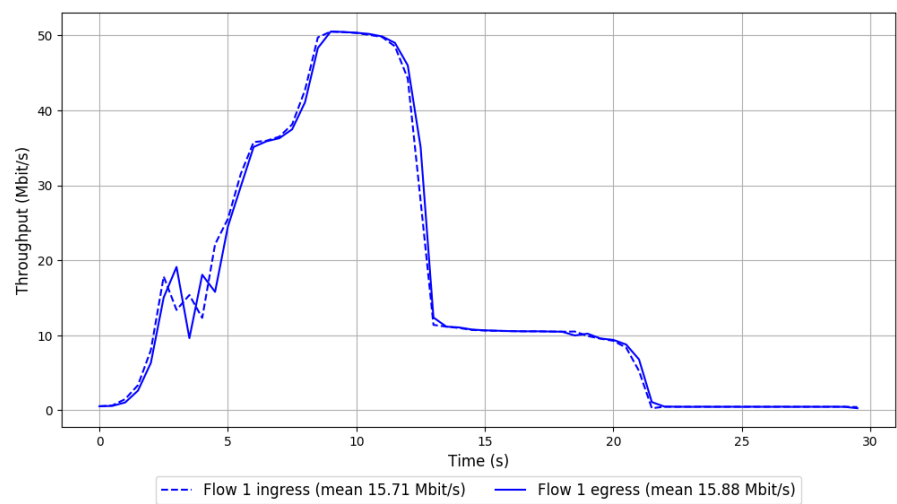
-- Flow 1:

Average throughput: 15.88 Mbit/s

95th percentile per-packet one-way delay: 162.292 ms

Loss rate: 0.03%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-13 13:34:00

End at: 2018-02-13 13:34:30

Below is generated by plot.py at 2018-02-13 16:48:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.40 Mbit/s

95th percentile per-packet one-way delay: 137.074 ms

Loss rate: 0.40%

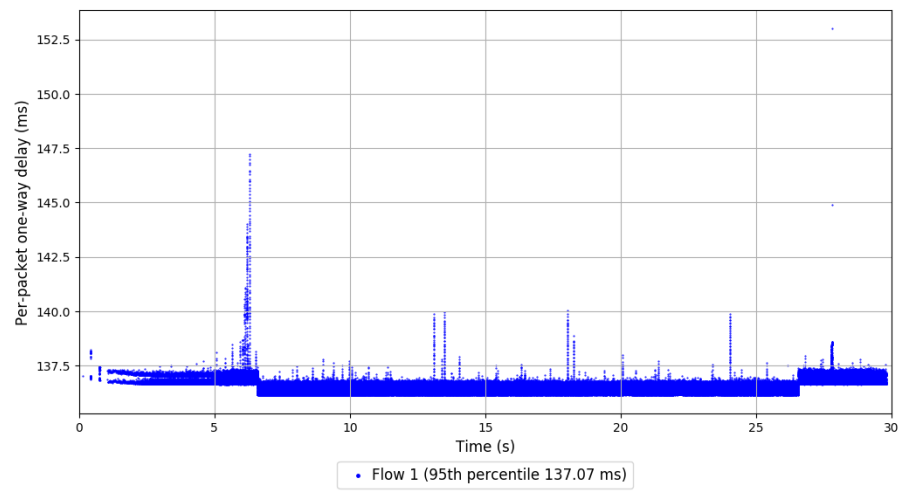
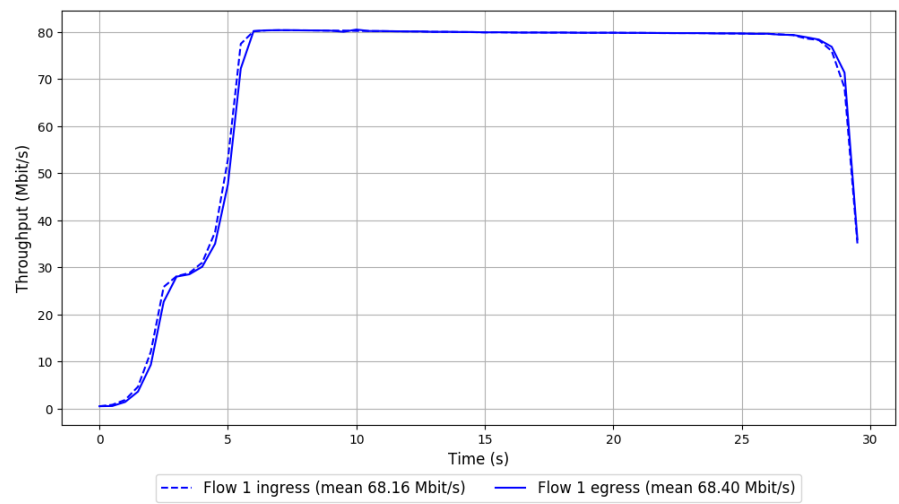
-- Flow 1:

Average throughput: 68.40 Mbit/s

95th percentile per-packet one-way delay: 137.074 ms

Loss rate: 0.40%

Run 10: Report of Copa — Data Link

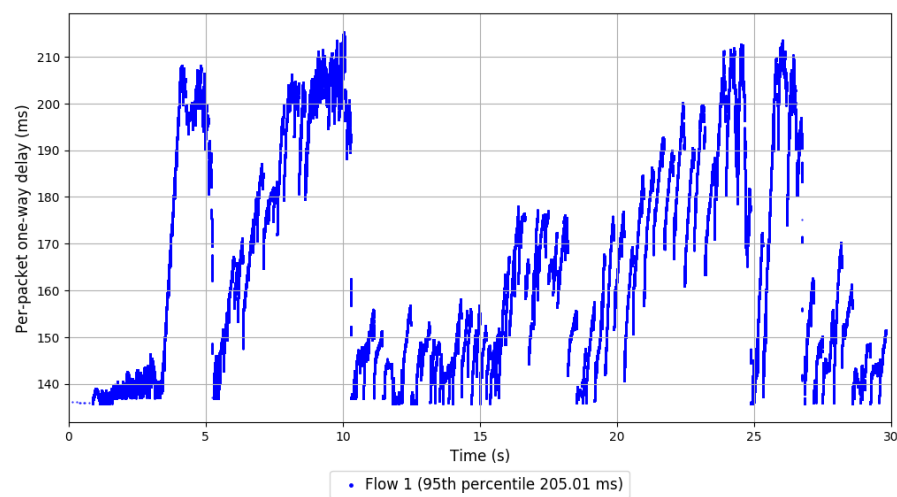
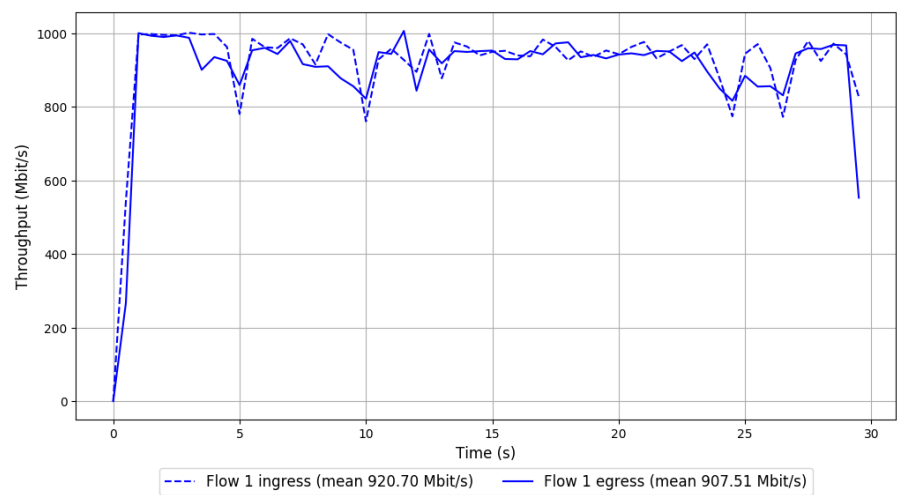


```
Run 1: Statistics of FillP

Start at: 2018-02-13 11:08:30
End at: 2018-02-13 11:09:00

# Below is generated by plot.py at 2018-02-13 17:03:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 907.51 Mbit/s
95th percentile per-packet one-way delay: 205.012 ms
Loss rate: 2.33%
-- Flow 1:
Average throughput: 907.51 Mbit/s
95th percentile per-packet one-way delay: 205.012 ms
Loss rate: 2.33%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-13 11:24:35

End at: 2018-02-13 11:25:05

Below is generated by plot.py at 2018-02-13 17:03:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 847.00 Mbit/s

95th percentile per-packet one-way delay: 211.403 ms

Loss rate: 4.98%

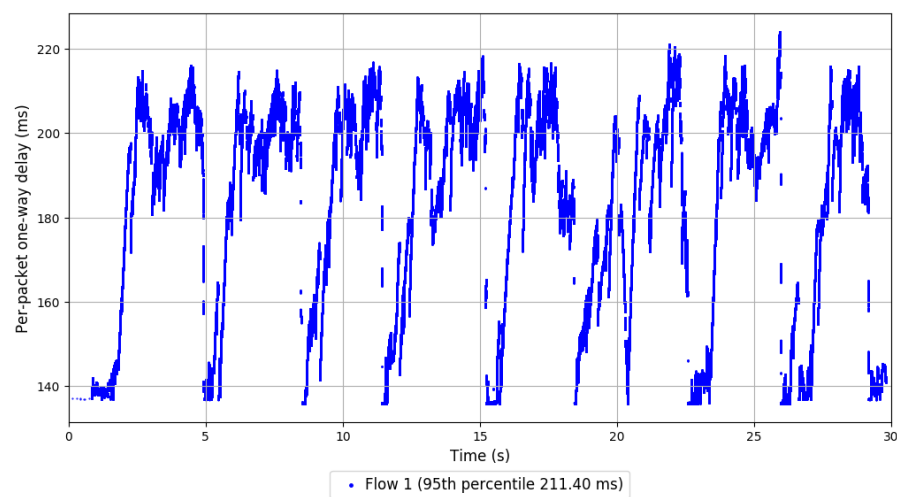
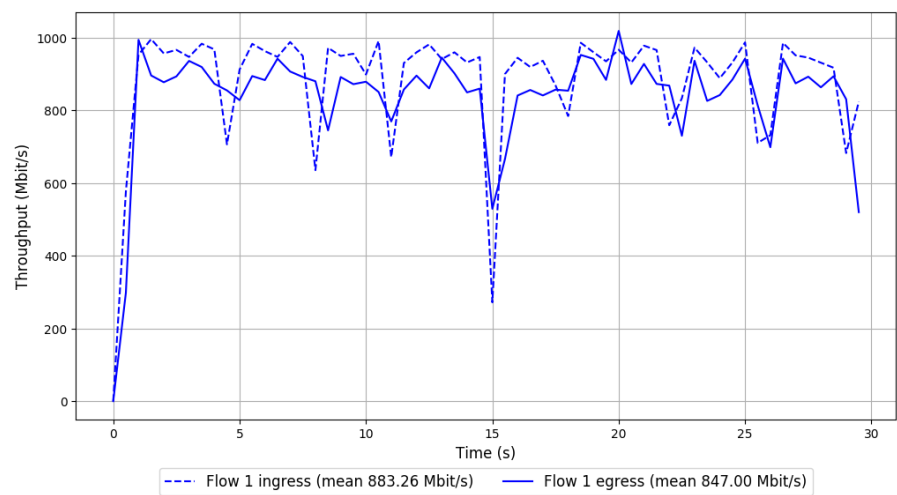
-- Flow 1:

Average throughput: 847.00 Mbit/s

95th percentile per-packet one-way delay: 211.403 ms

Loss rate: 4.98%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-13 11:40:02

End at: 2018-02-13 11:40:32

Below is generated by plot.py at 2018-02-13 17:03:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 780.22 Mbit/s

95th percentile per-packet one-way delay: 238.273 ms

Loss rate: 8.79%

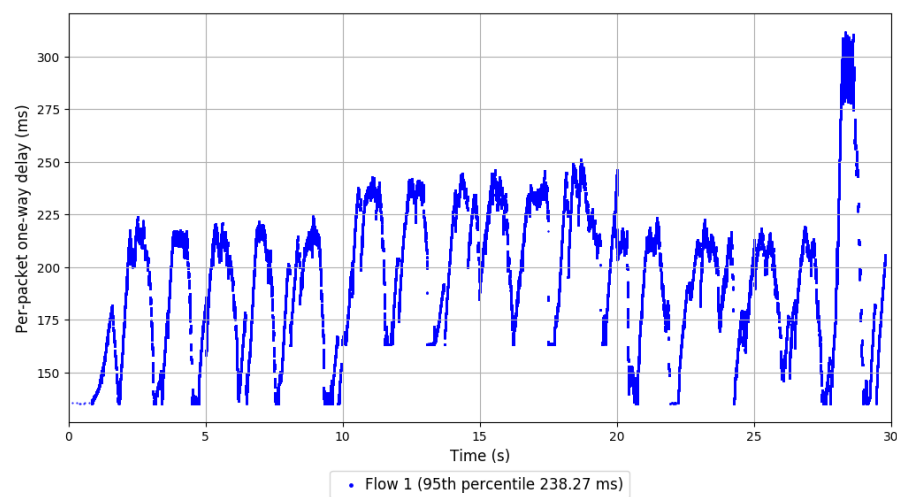
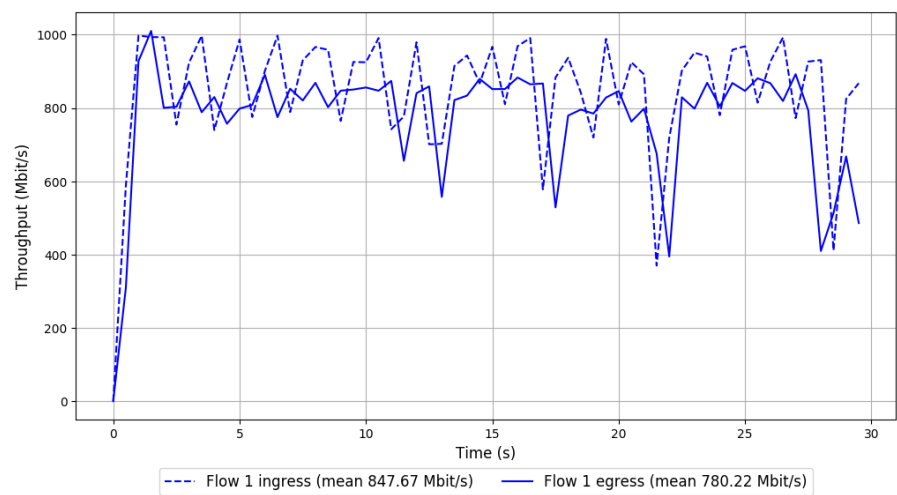
-- Flow 1:

Average throughput: 780.22 Mbit/s

95th percentile per-packet one-way delay: 238.273 ms

Loss rate: 8.79%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-13 11:55:32

End at: 2018-02-13 11:56:02

Below is generated by plot.py at 2018-02-13 17:03:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 810.27 Mbit/s

95th percentile per-packet one-way delay: 219.551 ms

Loss rate: 7.01%

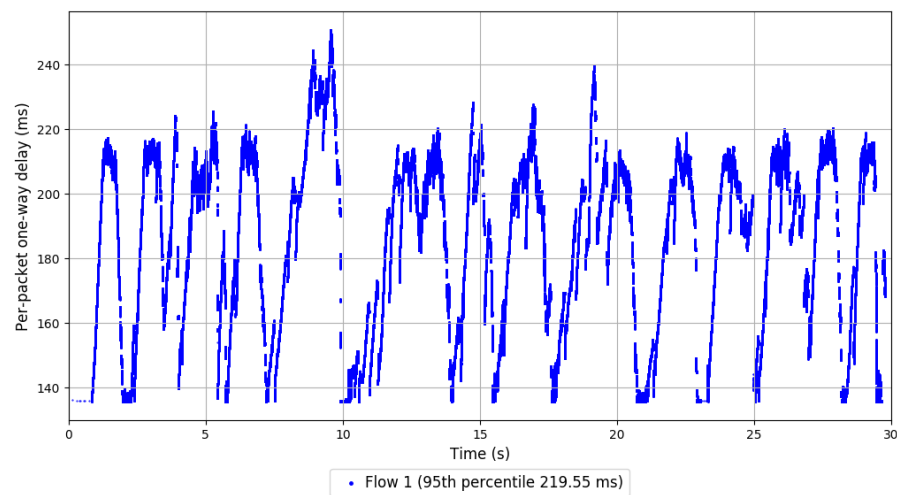
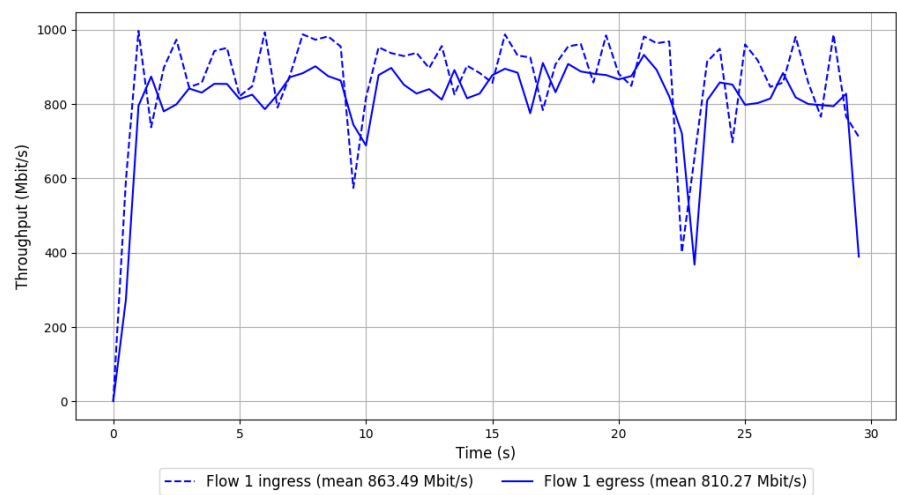
-- Flow 1:

Average throughput: 810.27 Mbit/s

95th percentile per-packet one-way delay: 219.551 ms

Loss rate: 7.01%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-13 12:11:04

End at: 2018-02-13 12:11:34

Below is generated by plot.py at 2018-02-13 17:03:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 813.93 Mbit/s

95th percentile per-packet one-way delay: 235.150 ms

Loss rate: 5.80%

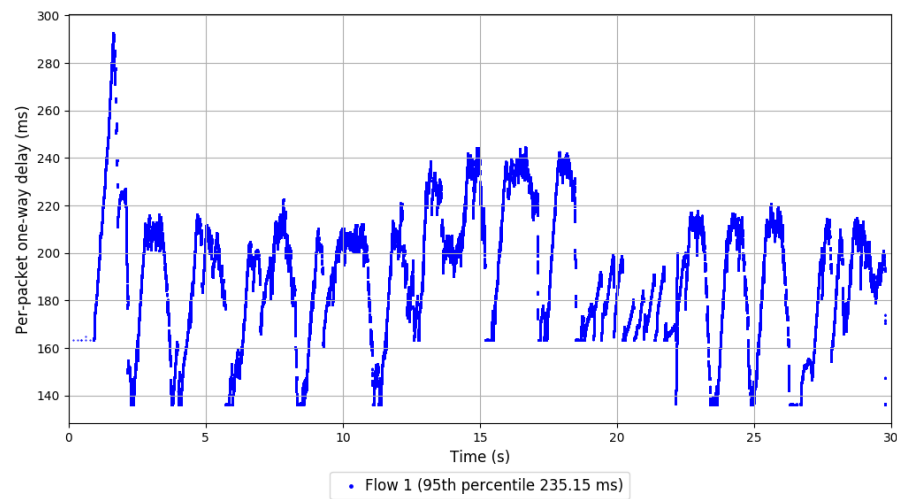
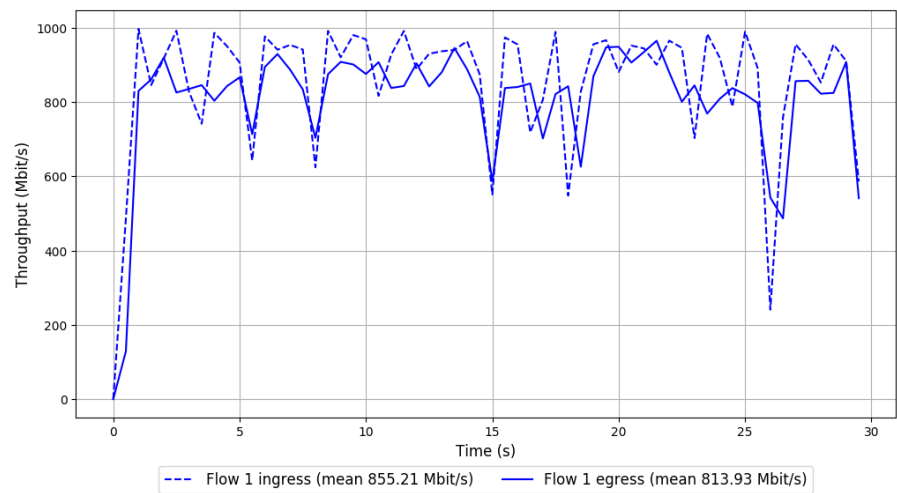
-- Flow 1:

Average throughput: 813.93 Mbit/s

95th percentile per-packet one-way delay: 235.150 ms

Loss rate: 5.80%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-13 12:26:45

End at: 2018-02-13 12:27:15

Below is generated by plot.py at 2018-02-13 17:03:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 873.51 Mbit/s

95th percentile per-packet one-way delay: 206.313 ms

Loss rate: 3.73%

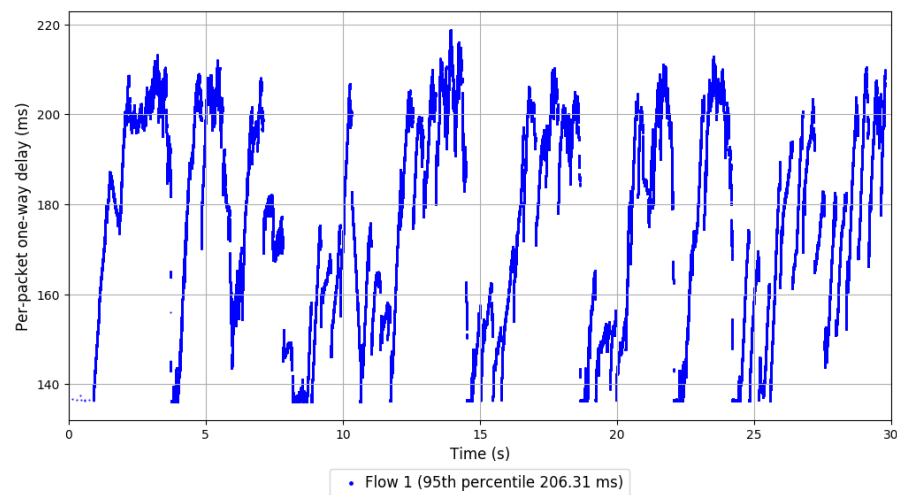
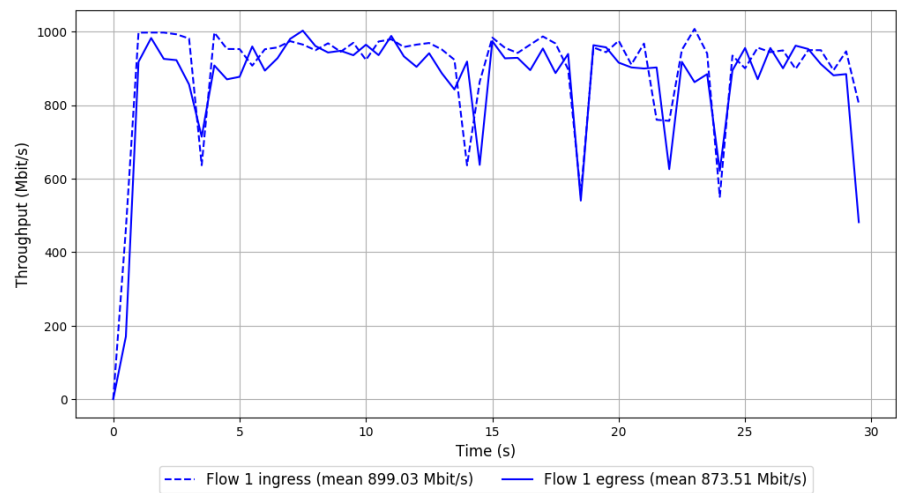
-- Flow 1:

Average throughput: 873.51 Mbit/s

95th percentile per-packet one-way delay: 206.313 ms

Loss rate: 3.73%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-13 12:42:41

End at: 2018-02-13 12:43:11

Below is generated by plot.py at 2018-02-13 17:04:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 853.95 Mbit/s

95th percentile per-packet one-way delay: 236.051 ms

Loss rate: 4.15%

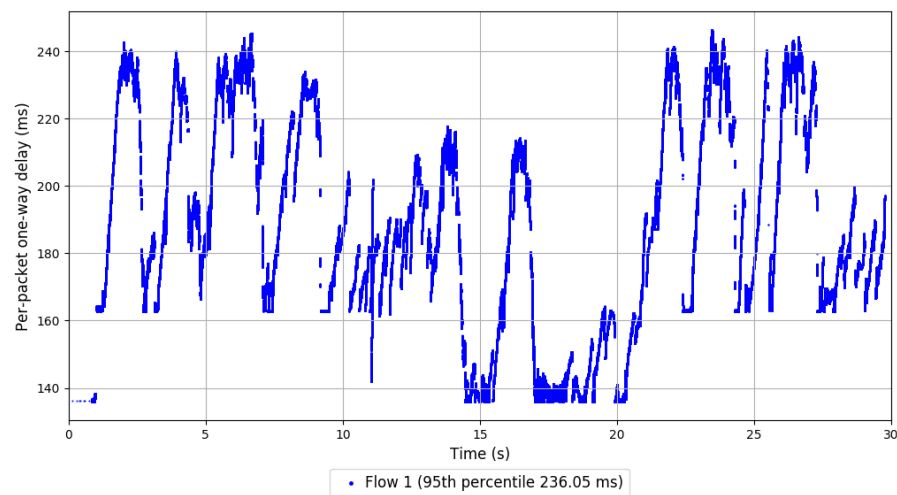
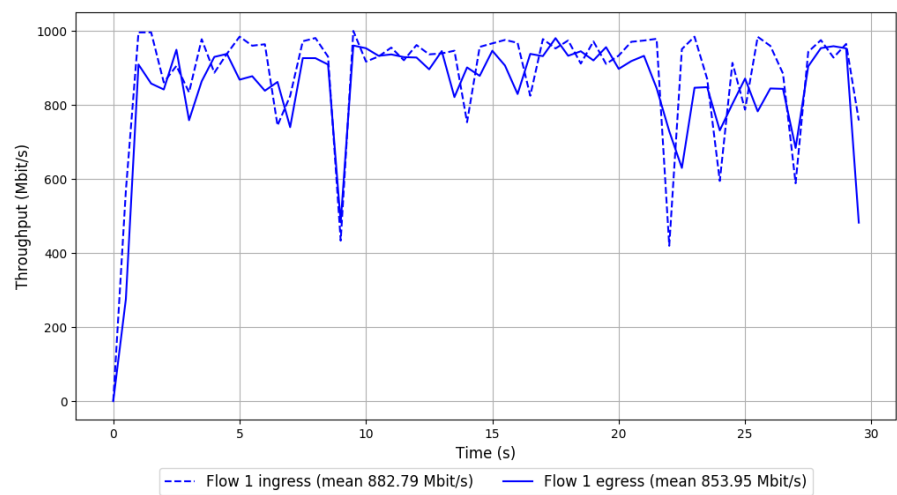
-- Flow 1:

Average throughput: 853.95 Mbit/s

95th percentile per-packet one-way delay: 236.051 ms

Loss rate: 4.15%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-13 12:57:49

End at: 2018-02-13 12:58:19

Below is generated by plot.py at 2018-02-13 17:04:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 853.13 Mbit/s

95th percentile per-packet one-way delay: 213.358 ms

Loss rate: 4.44%

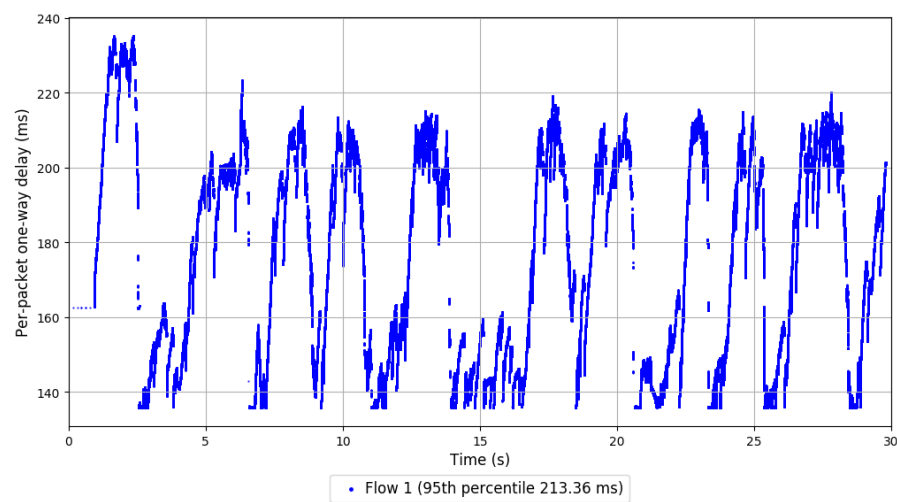
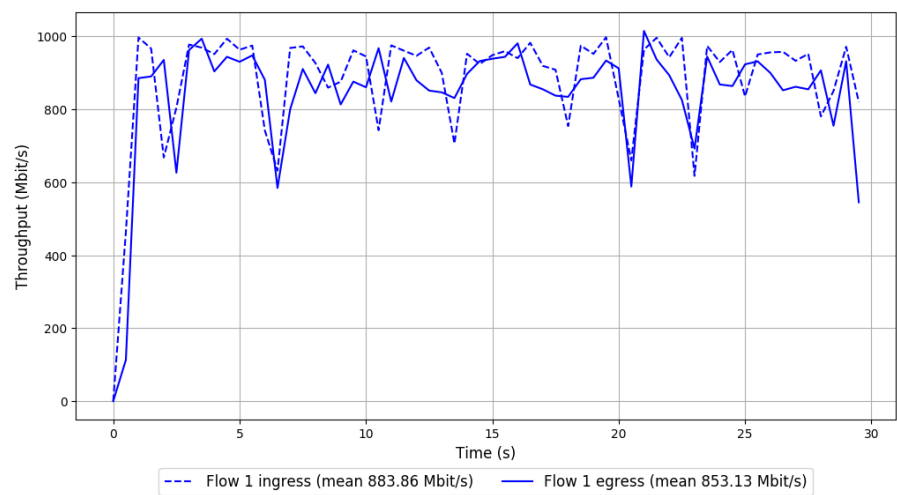
-- Flow 1:

Average throughput: 853.13 Mbit/s

95th percentile per-packet one-way delay: 213.358 ms

Loss rate: 4.44%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

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

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

Below is generated by plot.py at 2018-02-13 17:17:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 847.26 Mbit/s

95th percentile per-packet one-way delay: 227.464 ms

Loss rate: 4.38%

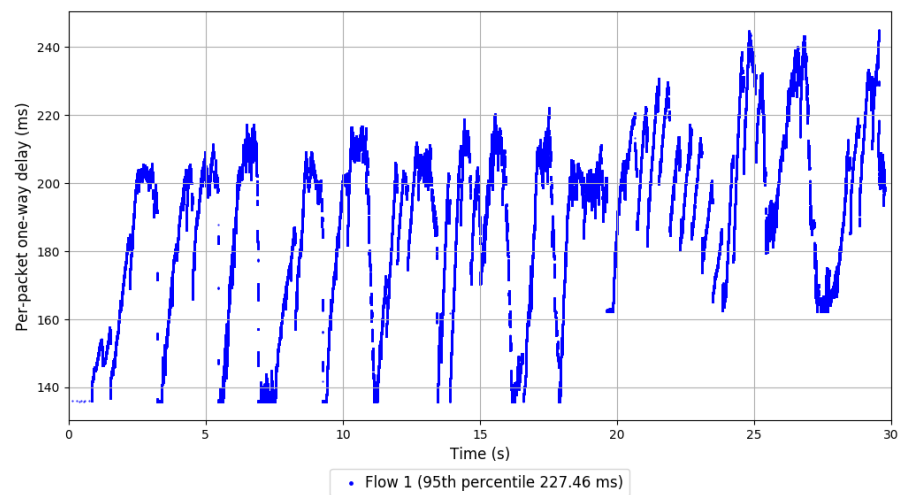
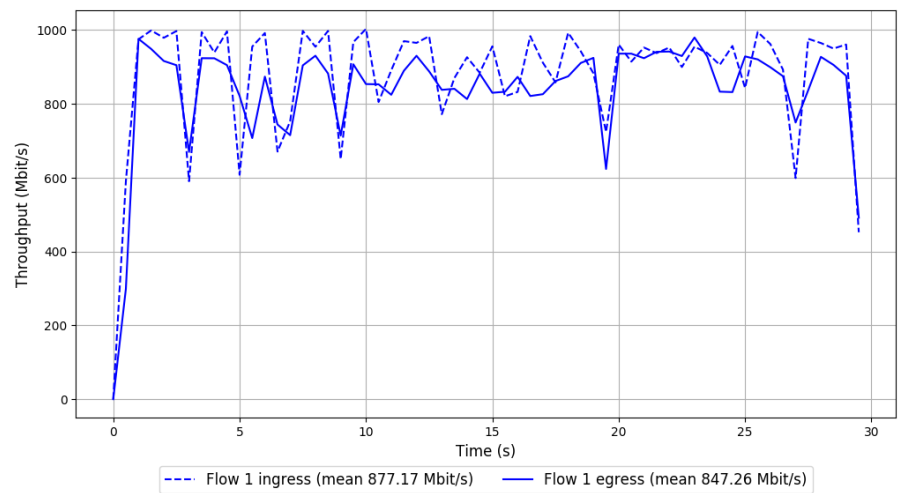
-- Flow 1:

Average throughput: 847.26 Mbit/s

95th percentile per-packet one-way delay: 227.464 ms

Loss rate: 4.38%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-13 13:28:32

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

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 847.14 Mbit/s

95th percentile per-packet one-way delay: 211.489 ms

Loss rate: 5.17%

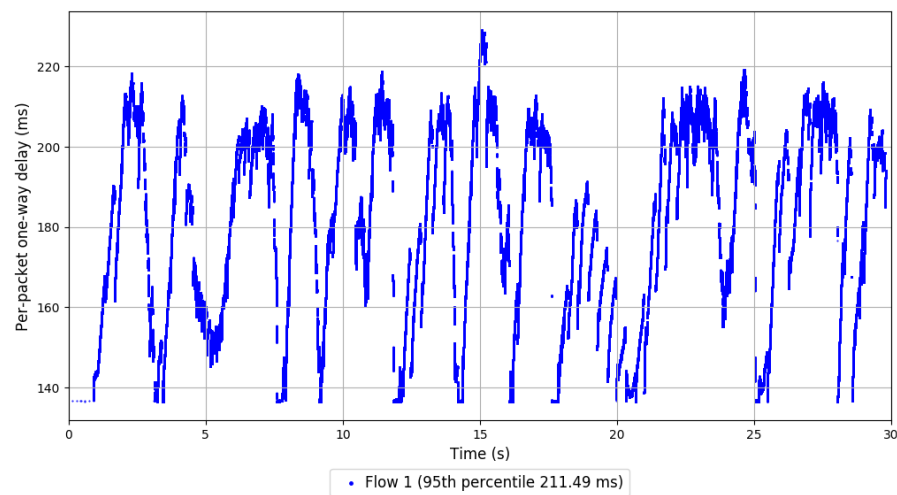
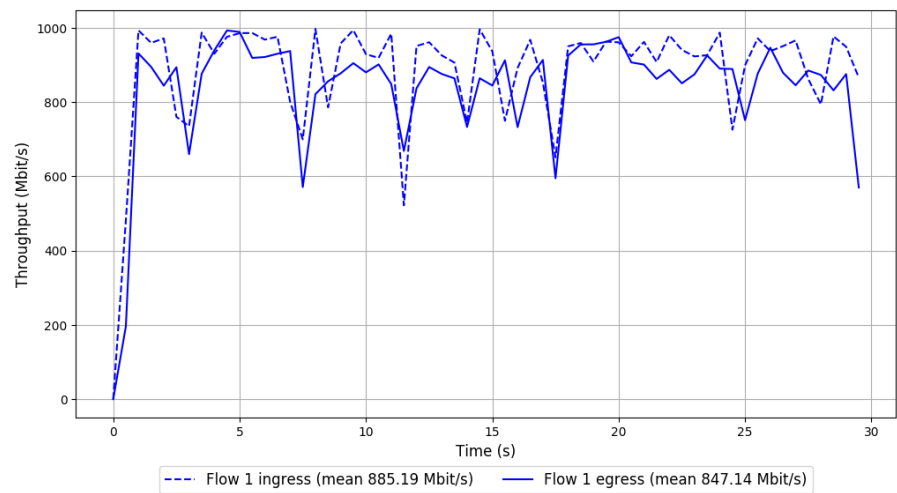
-- Flow 1:

Average throughput: 847.14 Mbit/s

95th percentile per-packet one-way delay: 211.489 ms

Loss rate: 5.17%

Run 10: Report of FillP — Data Link

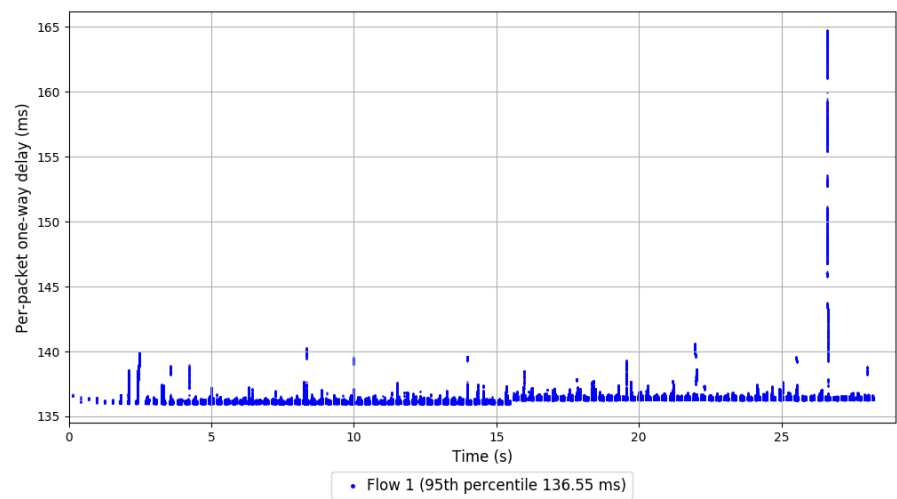
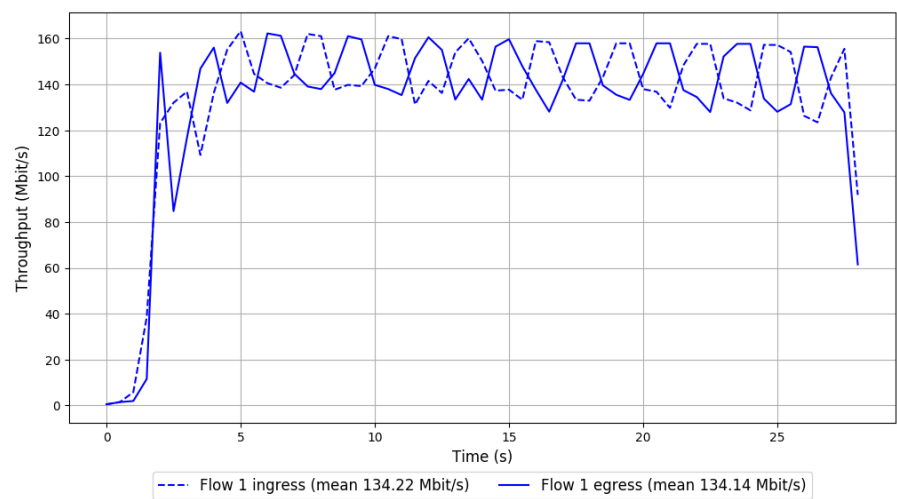


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-13 11:13:19
End at: 2018-02-13 11:13:49

# Below is generated by plot.py at 2018-02-13 17:17:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 134.14 Mbit/s
95th percentile per-packet one-way delay: 136.552 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 134.14 Mbit/s
95th percentile per-packet one-way delay: 136.552 ms
Loss rate: 1.02%
```

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

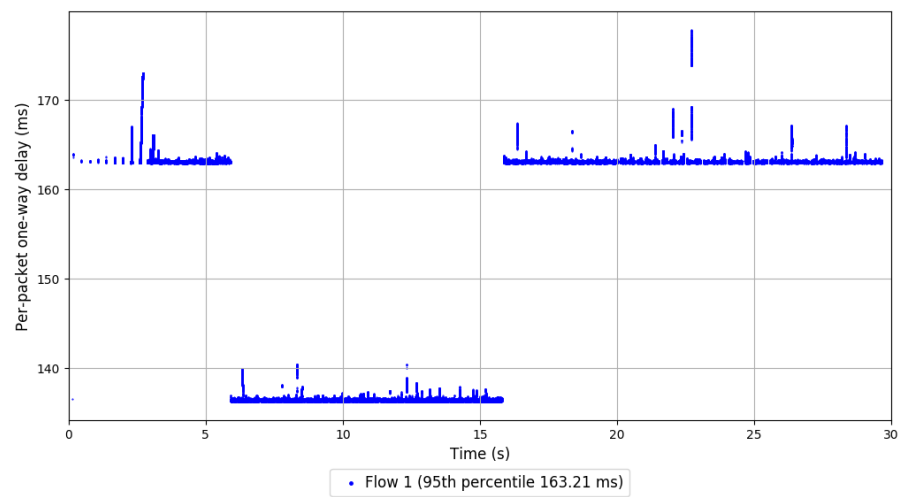
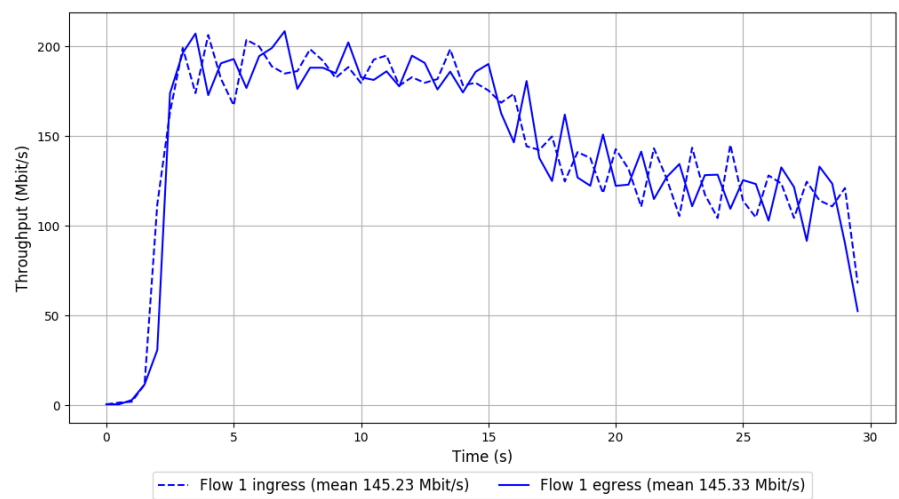


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-02-13 11:29:10
End at: 2018-02-13 11:29:40

# Below is generated by plot.py at 2018-02-13 17:17:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 145.33 Mbit/s
95th percentile per-packet one-way delay: 163.210 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 145.33 Mbit/s
95th percentile per-packet one-way delay: 163.210 ms
Loss rate: 0.85%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-13 11:44:48

End at: 2018-02-13 11:45:18

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 145.64 Mbit/s

95th percentile per-packet one-way delay: 163.413 ms

Loss rate: 1.13%

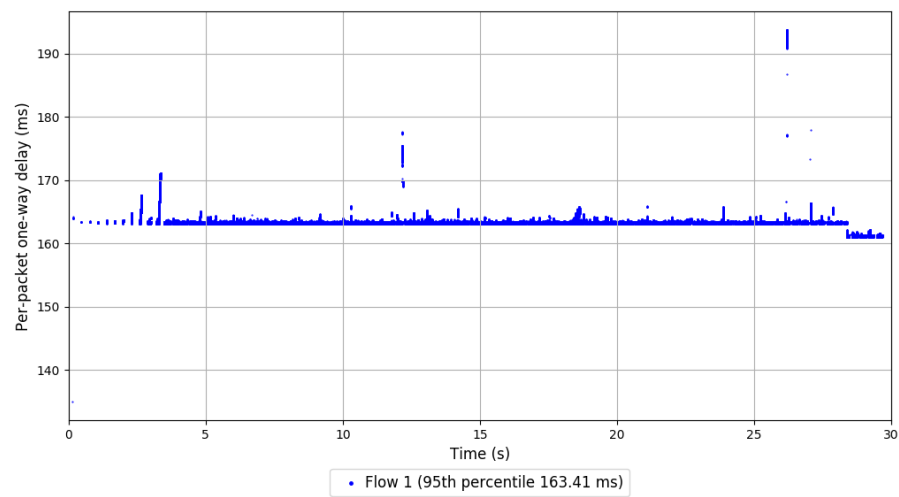
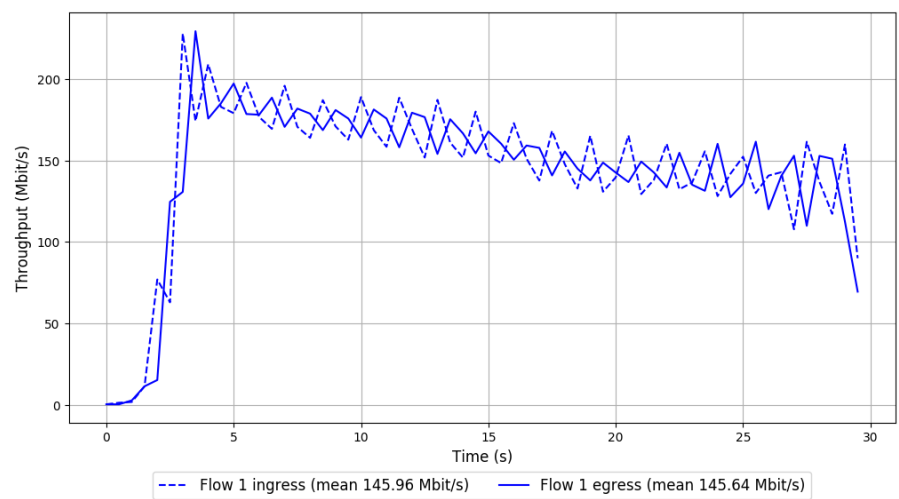
-- Flow 1:

Average throughput: 145.64 Mbit/s

95th percentile per-packet one-way delay: 163.413 ms

Loss rate: 1.13%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-13 12:00:24

End at: 2018-02-13 12:00:54

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 145.46 Mbit/s

95th percentile per-packet one-way delay: 163.412 ms

Loss rate: 1.11%

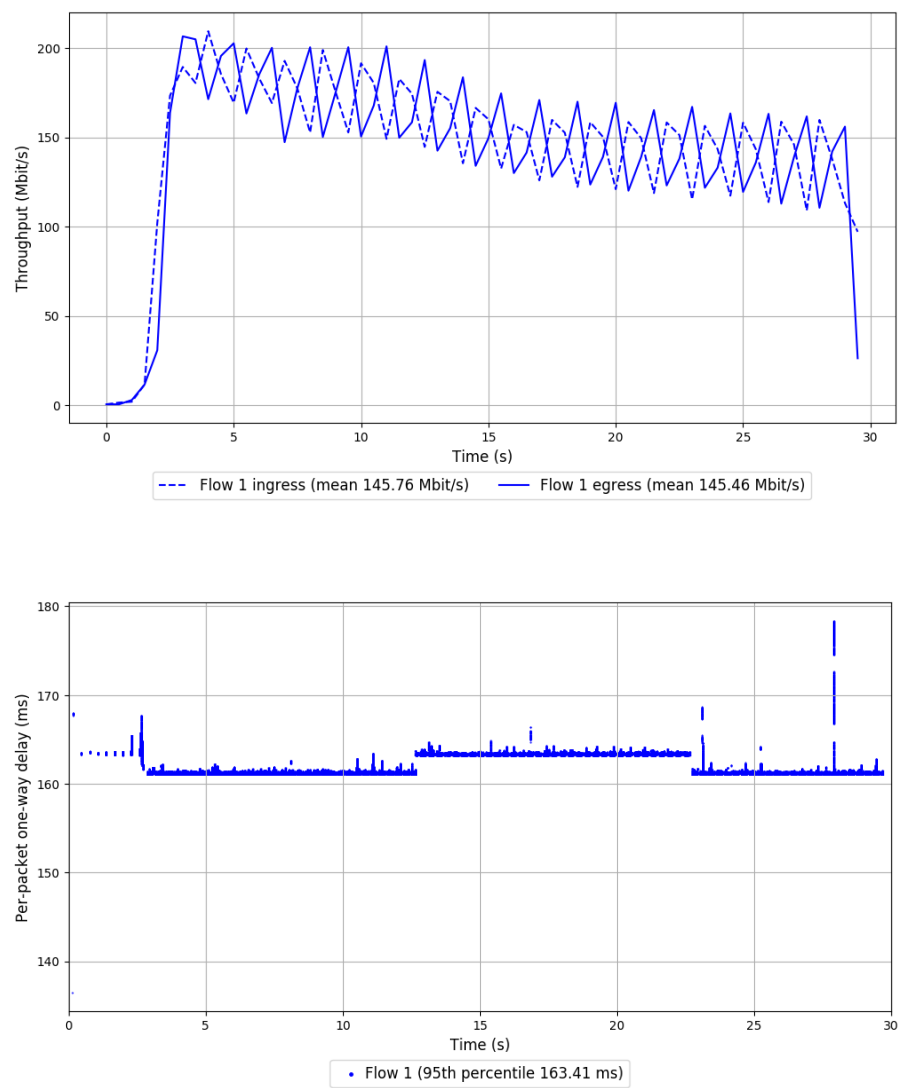
-- Flow 1:

Average throughput: 145.46 Mbit/s

95th percentile per-packet one-way delay: 163.412 ms

Loss rate: 1.11%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-13 12:15:39

End at: 2018-02-13 12:16:09

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.33 Mbit/s

95th percentile per-packet one-way delay: 163.177 ms

Loss rate: 0.96%

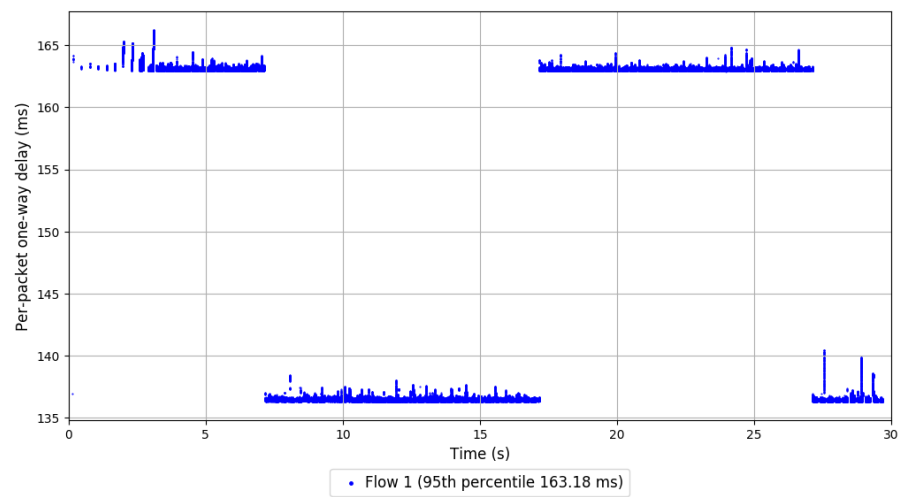
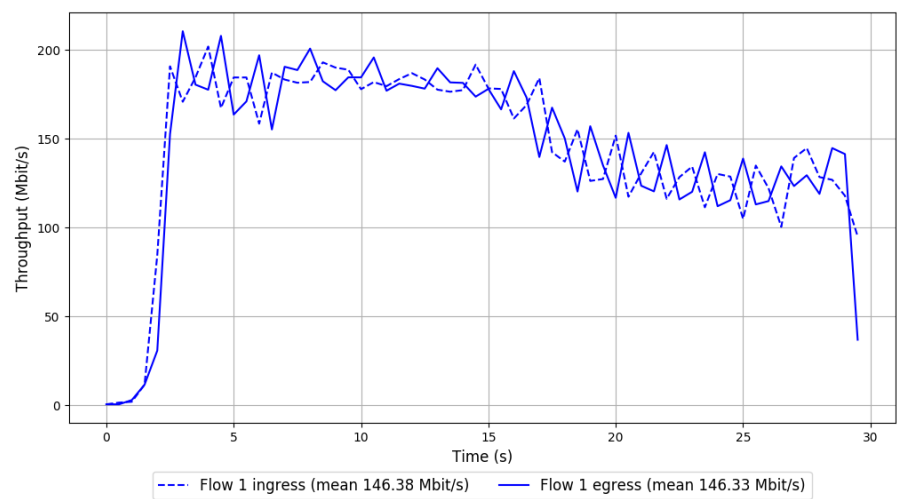
-- Flow 1:

Average throughput: 146.33 Mbit/s

95th percentile per-packet one-way delay: 163.177 ms

Loss rate: 0.96%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-13 12:31:41

End at: 2018-02-13 12:32:11

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.27 Mbit/s

95th percentile per-packet one-way delay: 162.957 ms

Loss rate: 1.00%

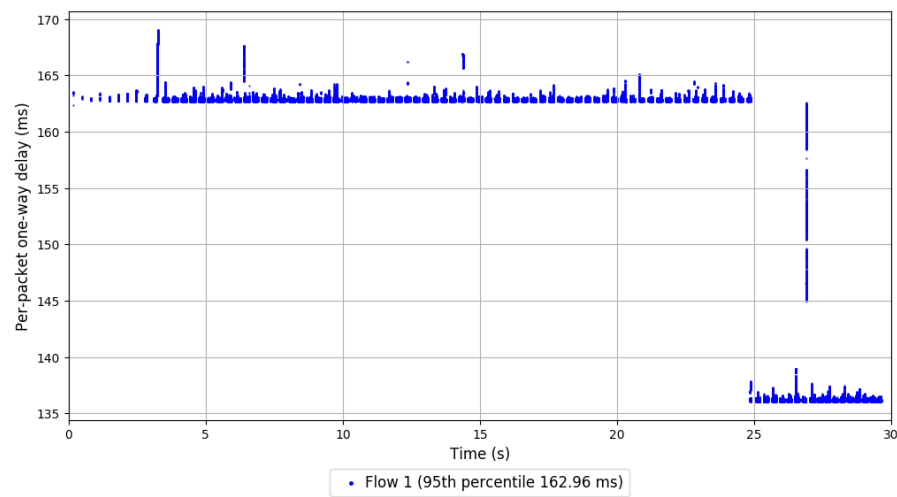
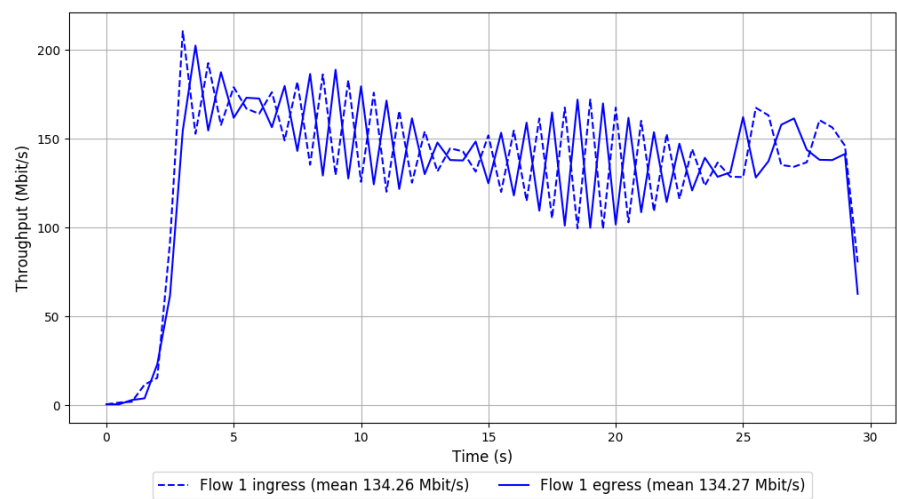
-- Flow 1:

Average throughput: 134.27 Mbit/s

95th percentile per-packet one-way delay: 162.957 ms

Loss rate: 1.00%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-13 12:47:16

End at: 2018-02-13 12:47:46

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 135.02 Mbit/s

95th percentile per-packet one-way delay: 162.699 ms

Loss rate: 0.86%

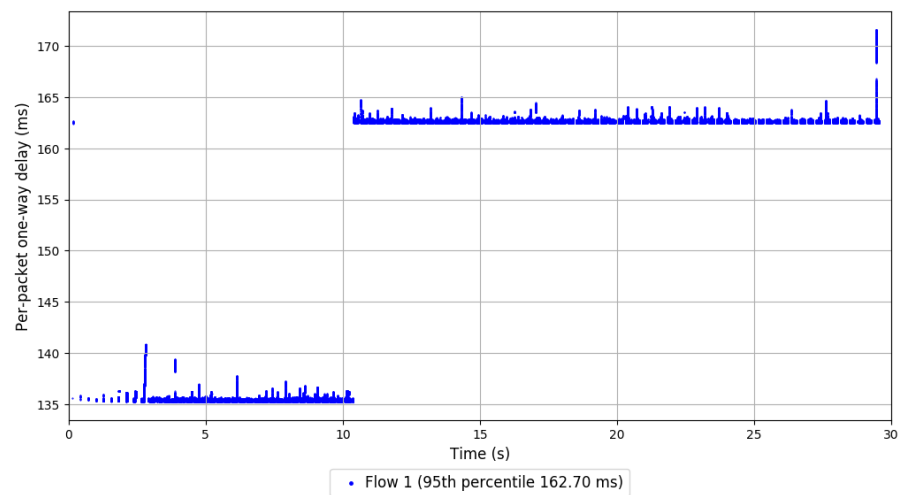
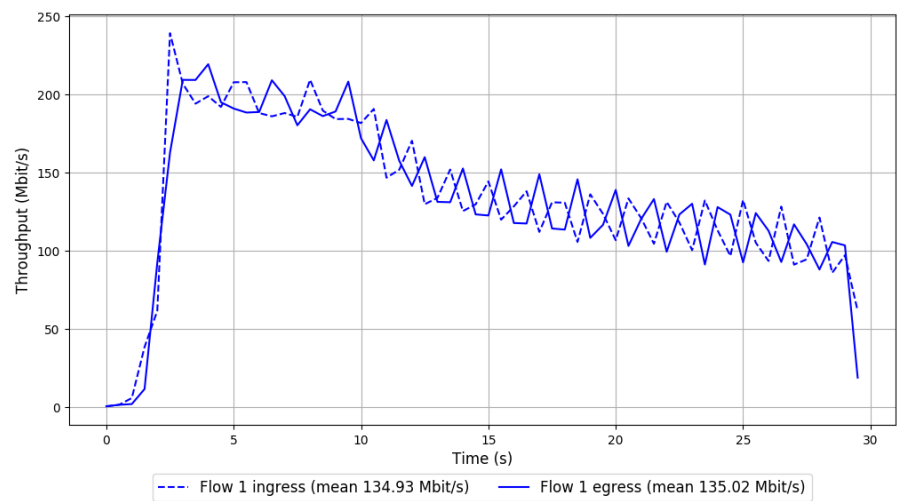
-- Flow 1:

Average throughput: 135.02 Mbit/s

95th percentile per-packet one-way delay: 162.699 ms

Loss rate: 0.86%

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



Run 8: Statistics of Indigo-1-32

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

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

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.94 Mbit/s

95th percentile per-packet one-way delay: 162.426 ms

Loss rate: 1.06%

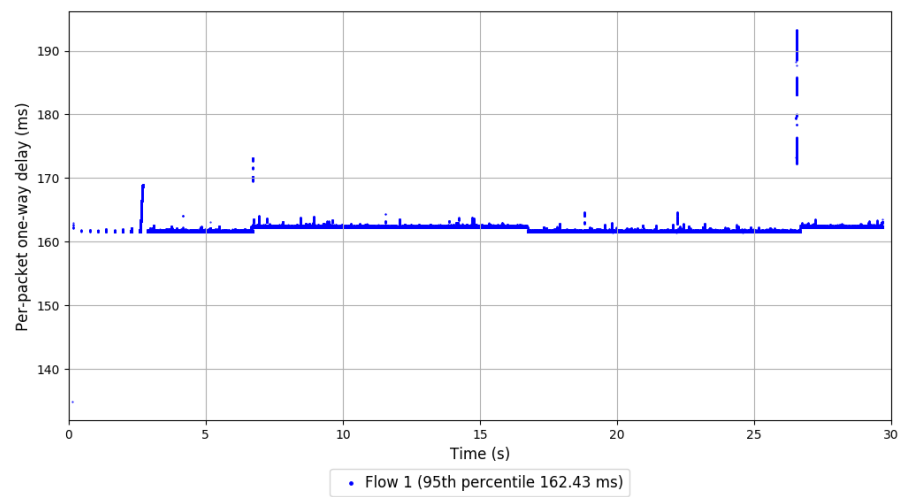
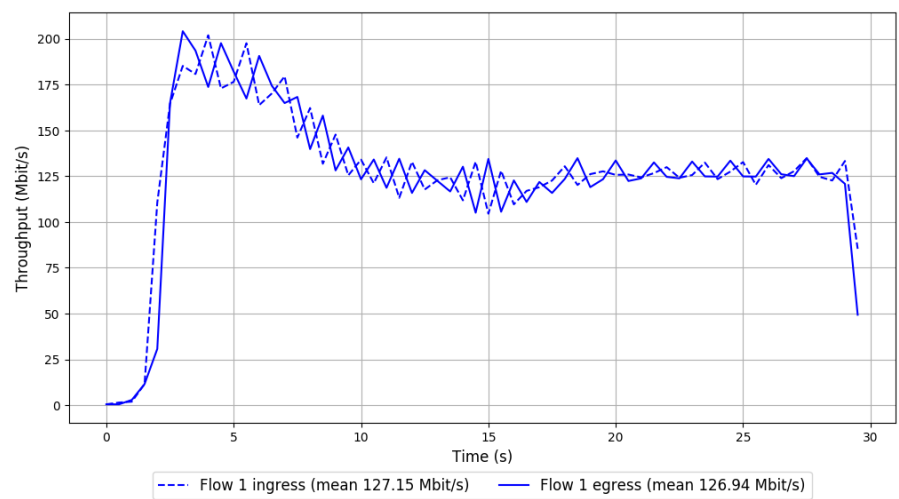
-- Flow 1:

Average throughput: 126.94 Mbit/s

95th percentile per-packet one-way delay: 162.426 ms

Loss rate: 1.06%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-13 13:17:54

End at: 2018-02-13 13:18:24

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 143.73 Mbit/s

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

Loss rate: 1.06%

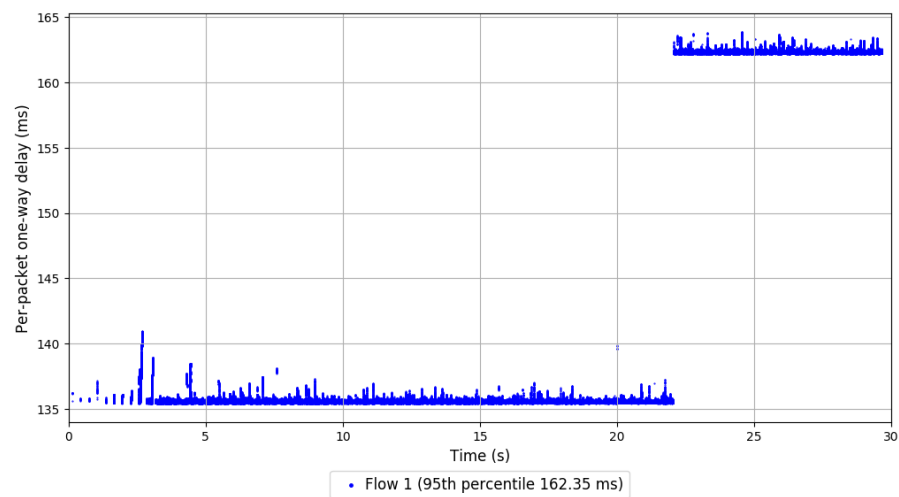
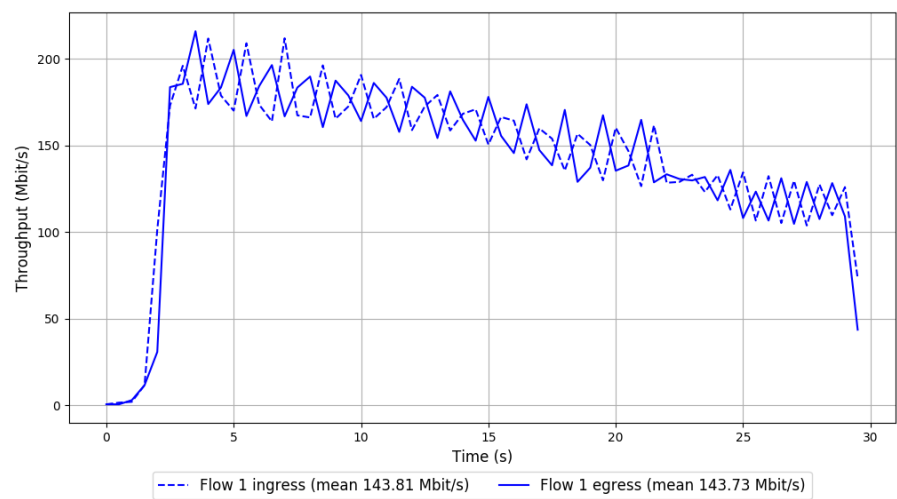
-- Flow 1:

Average throughput: 143.73 Mbit/s

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

Loss rate: 1.06%

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



Run 10: Statistics of Indigo-1-32

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

End at: 2018-02-13 13:33:35

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.97 Mbit/s

95th percentile per-packet one-way delay: 137.192 ms

Loss rate: 0.93%

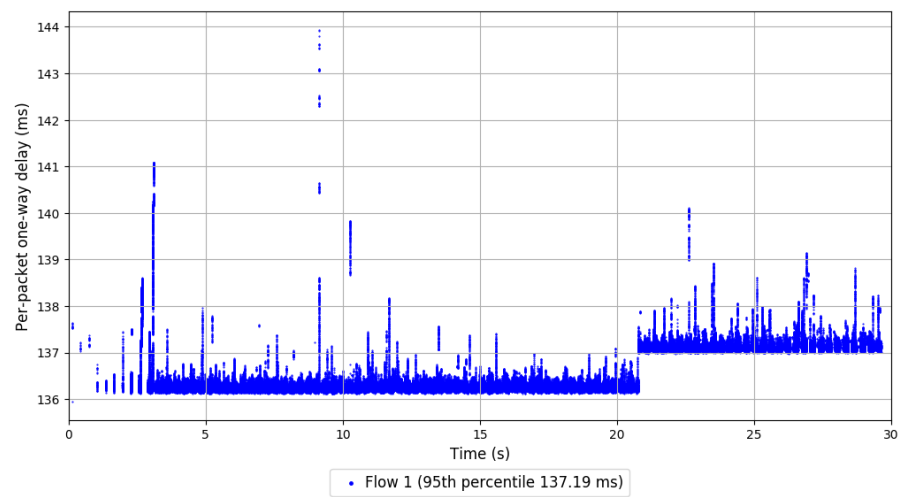
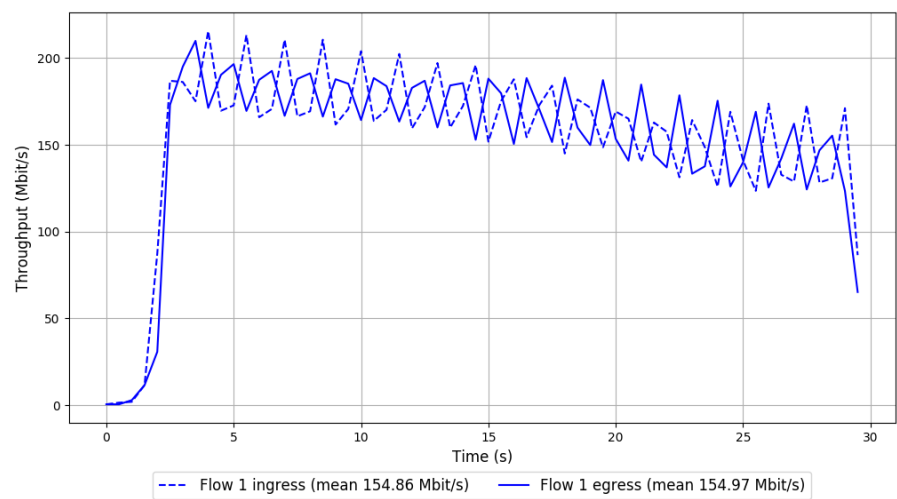
-- Flow 1:

Average throughput: 154.97 Mbit/s

95th percentile per-packet one-way delay: 137.192 ms

Loss rate: 0.93%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-02-13 11:18:15

End at: 2018-02-13 11:18:45

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 275.12 Mbit/s

95th percentile per-packet one-way delay: 204.064 ms

Loss rate: 1.95%

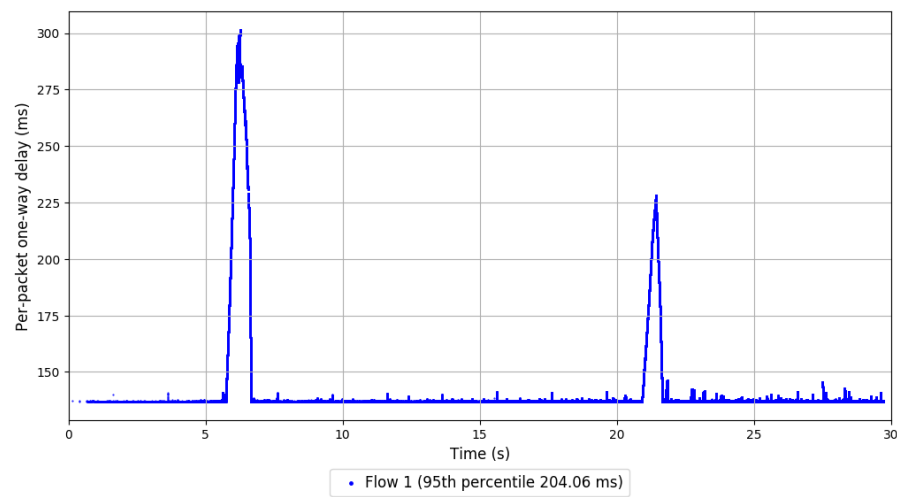
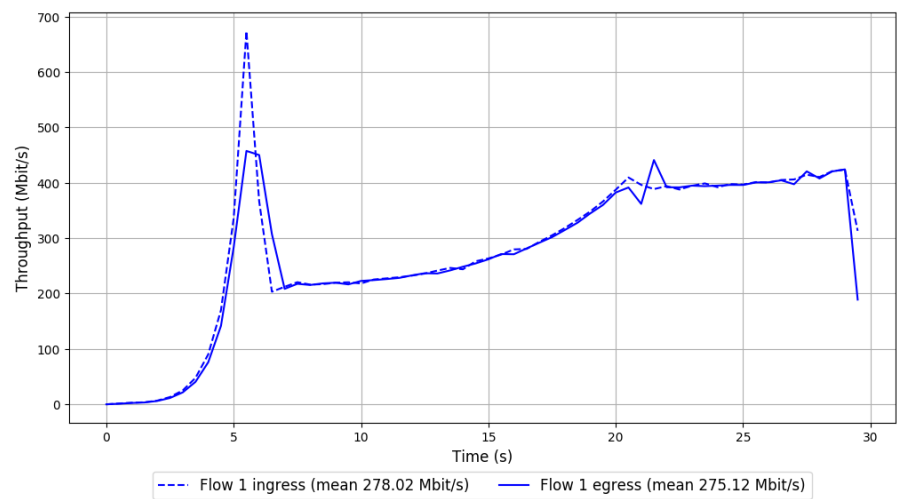
-- Flow 1:

Average throughput: 275.12 Mbit/s

95th percentile per-packet one-way delay: 204.064 ms

Loss rate: 1.95%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-13 11:34:03

End at: 2018-02-13 11:34:33

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 259.53 Mbit/s

95th percentile per-packet one-way delay: 137.016 ms

Loss rate: 1.55%

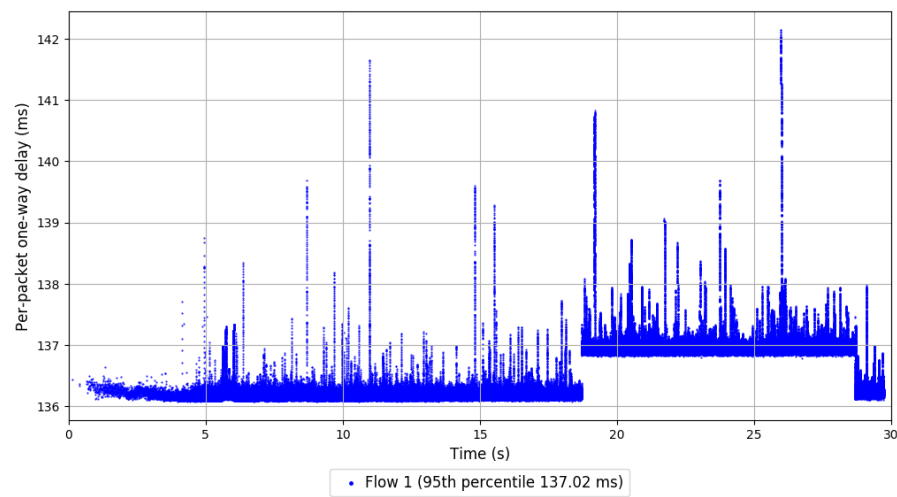
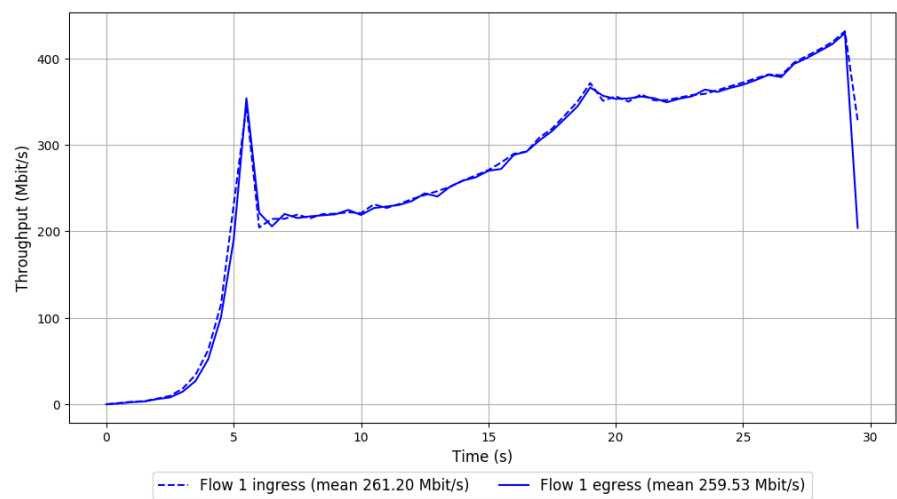
-- Flow 1:

Average throughput: 259.53 Mbit/s

95th percentile per-packet one-way delay: 137.016 ms

Loss rate: 1.55%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-13 11:49:24

End at: 2018-02-13 11:49:54

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 296.42 Mbit/s

95th percentile per-packet one-way delay: 210.343 ms

Loss rate: 1.98%

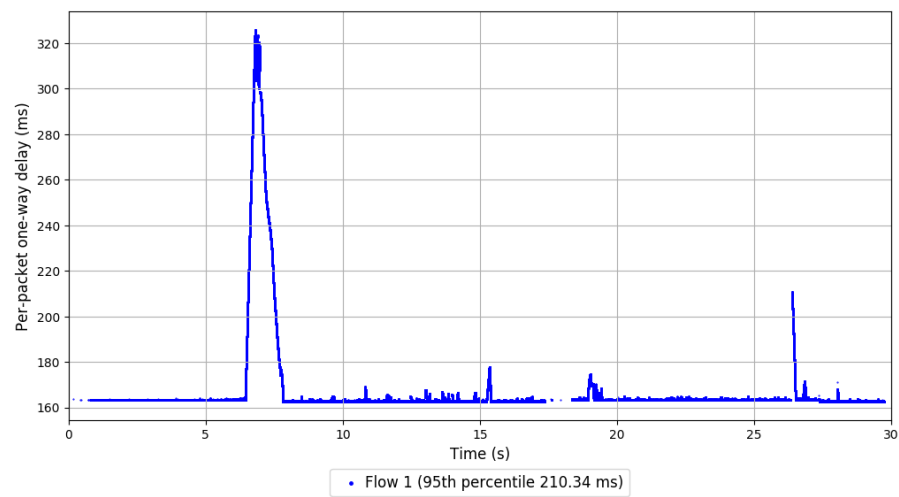
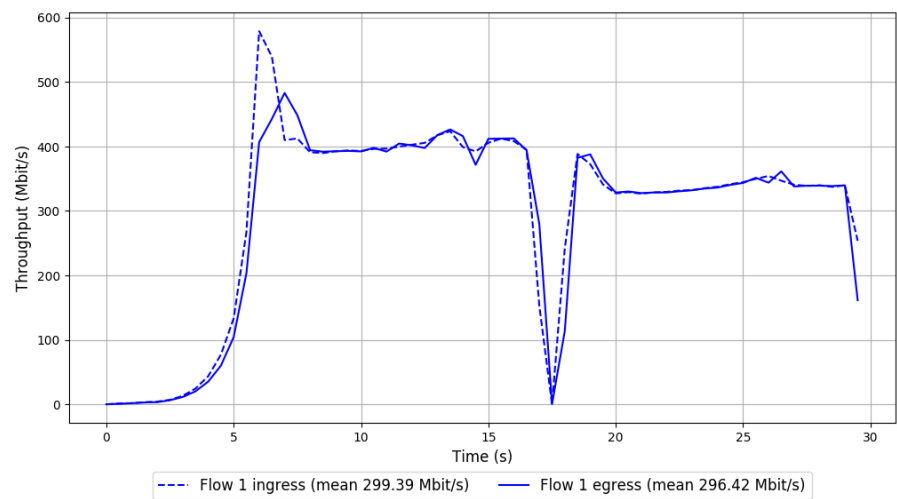
-- Flow 1:

Average throughput: 296.42 Mbit/s

95th percentile per-packet one-way delay: 210.343 ms

Loss rate: 1.98%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-13 12:04:58

End at: 2018-02-13 12:05:28

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 349.02 Mbit/s

95th percentile per-packet one-way delay: 141.532 ms

Loss rate: 1.23%

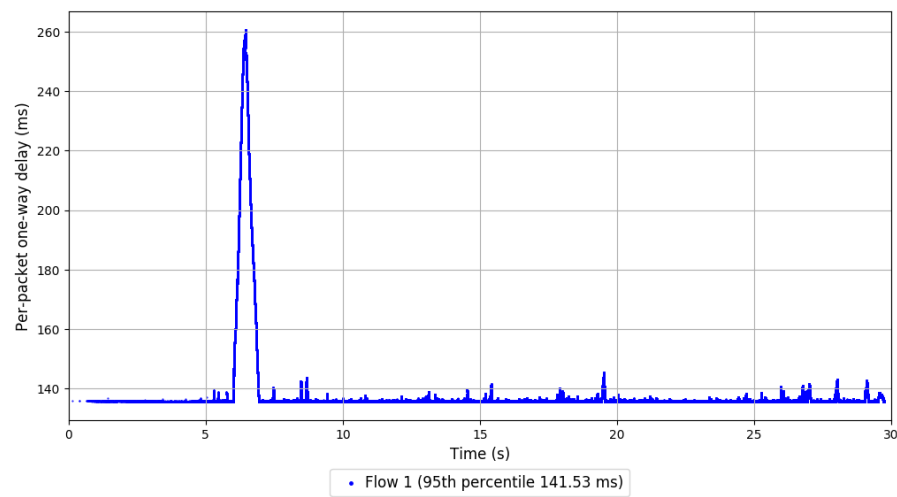
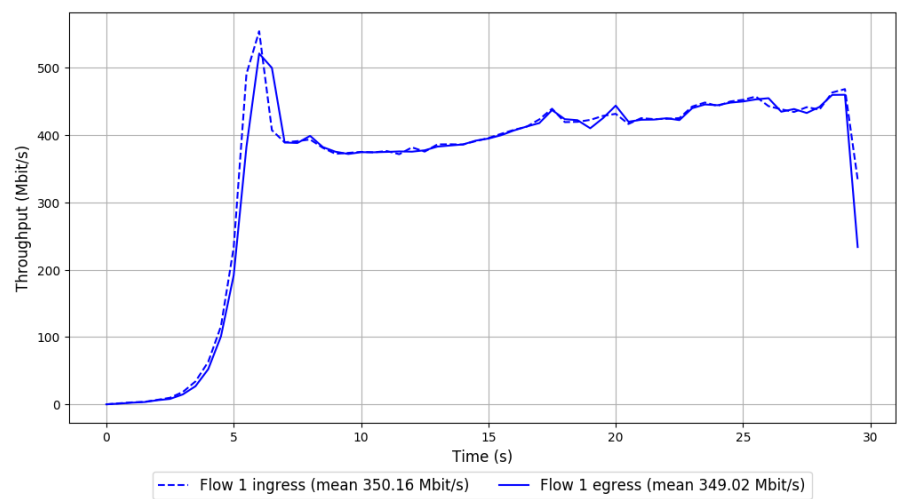
-- Flow 1:

Average throughput: 349.02 Mbit/s

95th percentile per-packet one-way delay: 141.532 ms

Loss rate: 1.23%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-13 12:20:38

End at: 2018-02-13 12:21:08

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 316.12 Mbit/s

95th percentile per-packet one-way delay: 149.036 ms

Loss rate: 1.18%

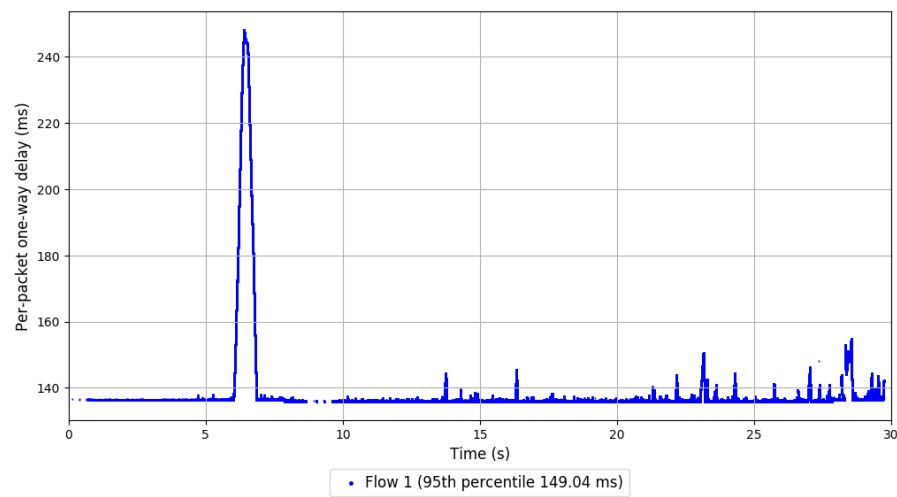
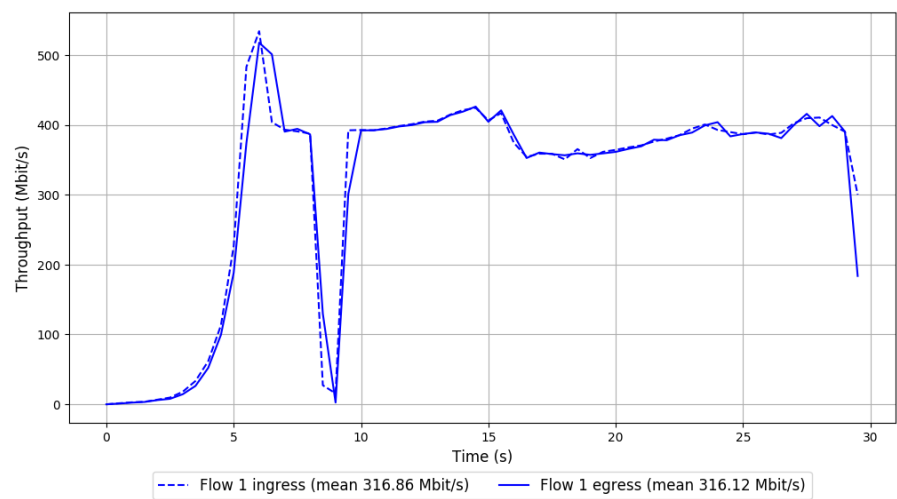
-- Flow 1:

Average throughput: 316.12 Mbit/s

95th percentile per-packet one-way delay: 149.036 ms

Loss rate: 1.18%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-13 12:36:36

End at: 2018-02-13 12:37:06

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 314.01 Mbit/s

95th percentile per-packet one-way delay: 144.352 ms

Loss rate: 1.46%

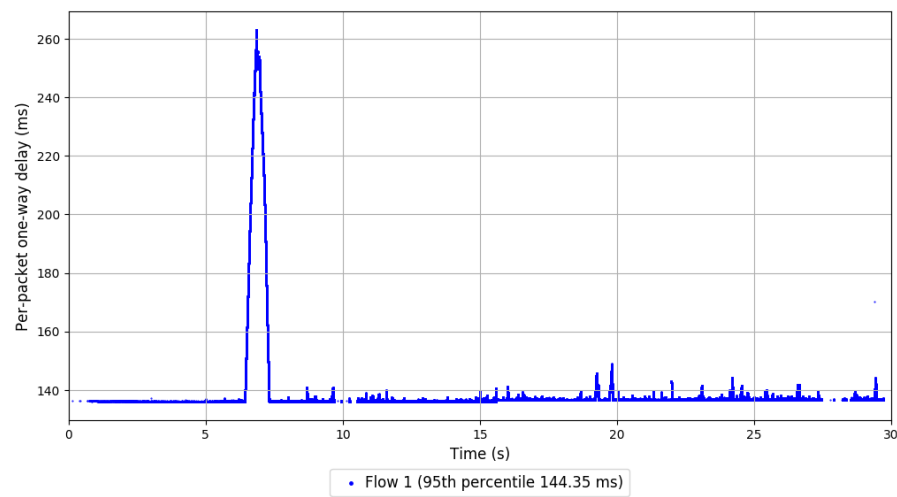
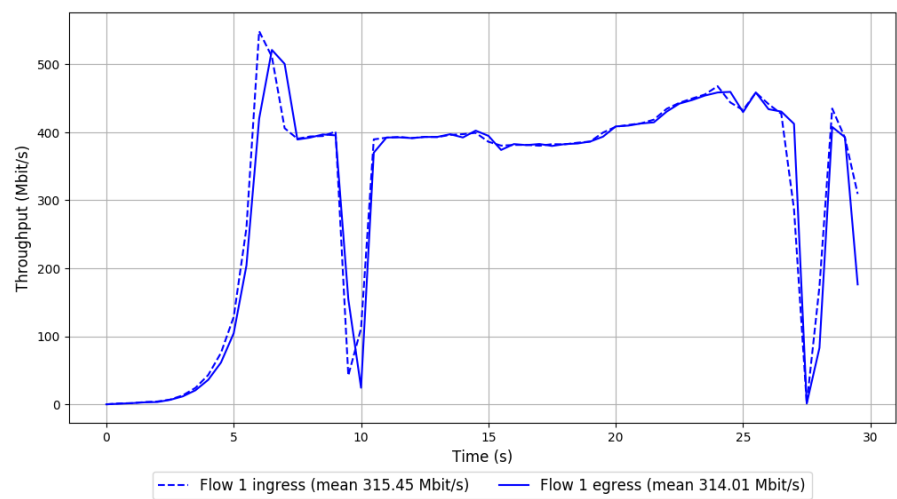
-- Flow 1:

Average throughput: 314.01 Mbit/s

95th percentile per-packet one-way delay: 144.352 ms

Loss rate: 1.46%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-13 12:51:49

End at: 2018-02-13 12:52:19

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.88 Mbit/s

95th percentile per-packet one-way delay: 191.628 ms

Loss rate: 2.71%

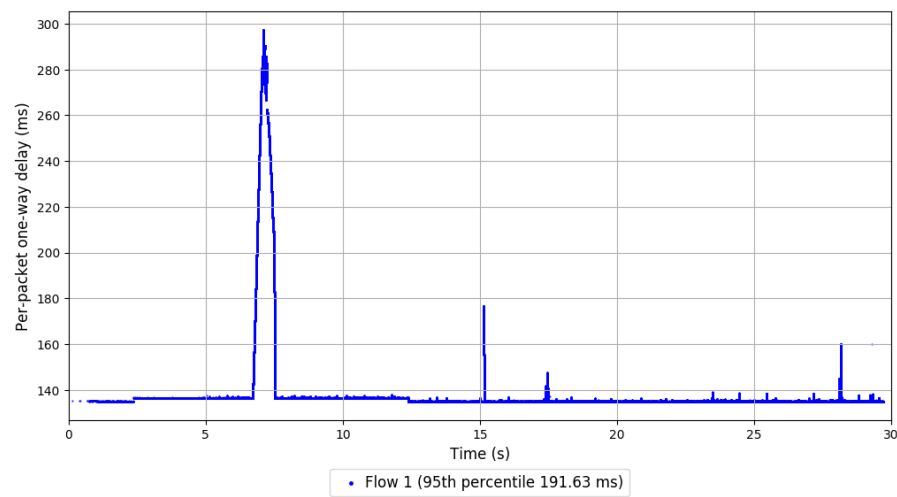
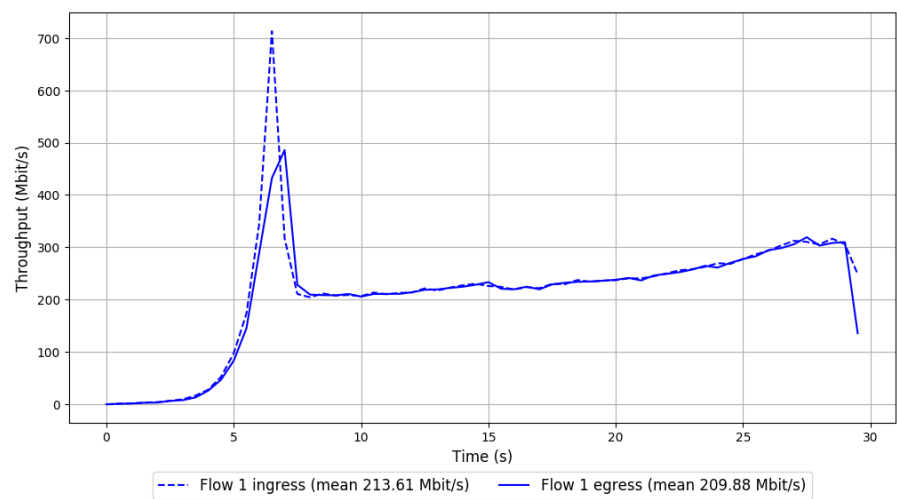
-- Flow 1:

Average throughput: 209.88 Mbit/s

95th percentile per-packet one-way delay: 191.628 ms

Loss rate: 2.71%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

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

End at: 2018-02-13 13:07:26

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 327.99 Mbit/s

95th percentile per-packet one-way delay: 139.337 ms

Loss rate: 1.42%

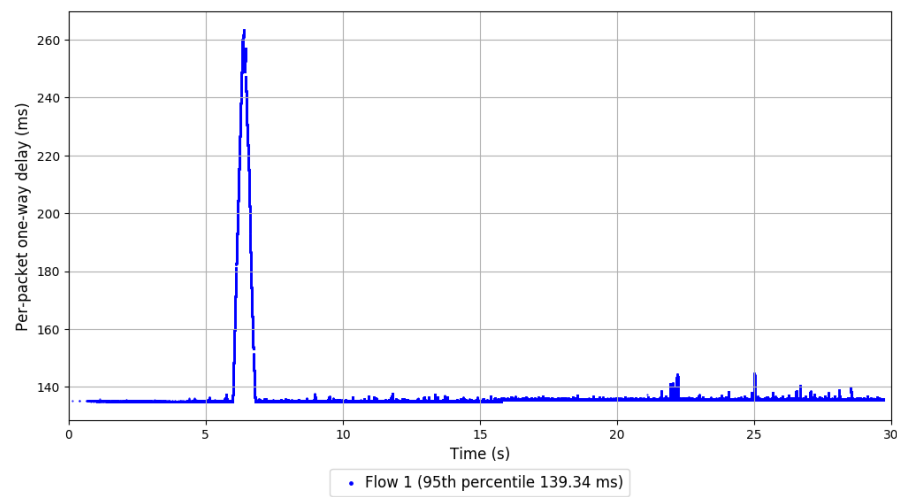
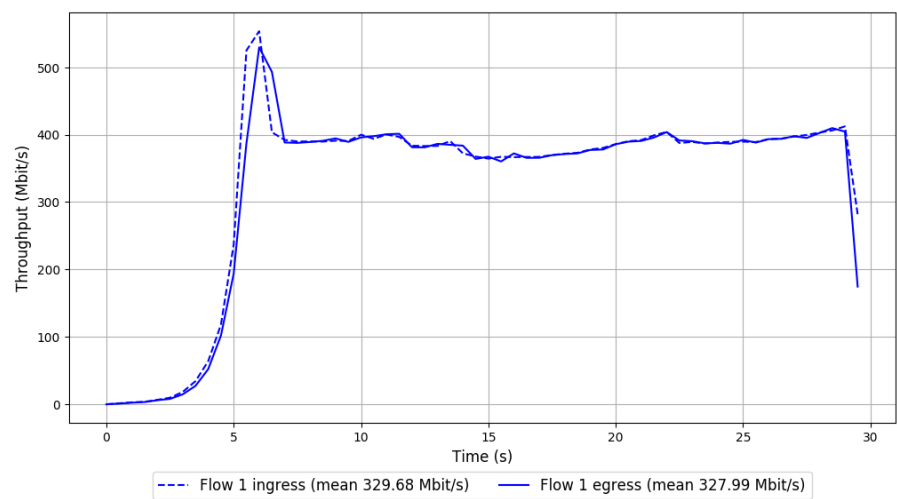
-- Flow 1:

Average throughput: 327.99 Mbit/s

95th percentile per-packet one-way delay: 139.337 ms

Loss rate: 1.42%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-13 13:22:28

End at: 2018-02-13 13:22:58

Below is generated by plot.py at 2018-02-13 17:18:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 355.88 Mbit/s

95th percentile per-packet one-way delay: 138.885 ms

Loss rate: 1.57%

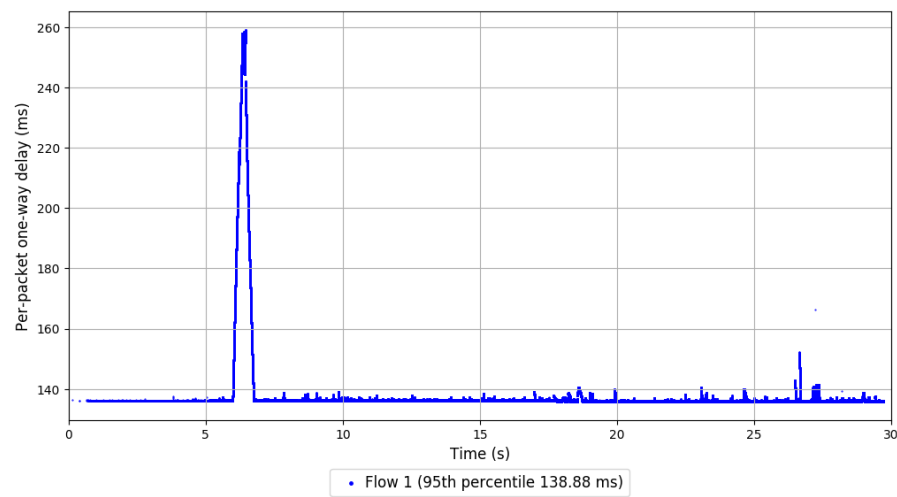
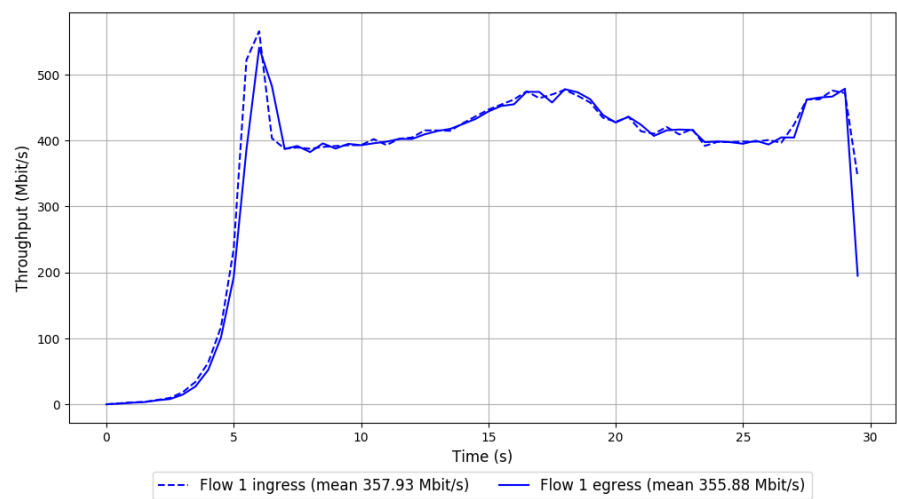
-- Flow 1:

Average throughput: 355.88 Mbit/s

95th percentile per-packet one-way delay: 138.885 ms

Loss rate: 1.57%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-13 13:38:10

End at: 2018-02-13 13:38:40

Below is generated by plot.py at 2018-02-13 17:18:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 328.44 Mbit/s

95th percentile per-packet one-way delay: 145.301 ms

Loss rate: 1.67%

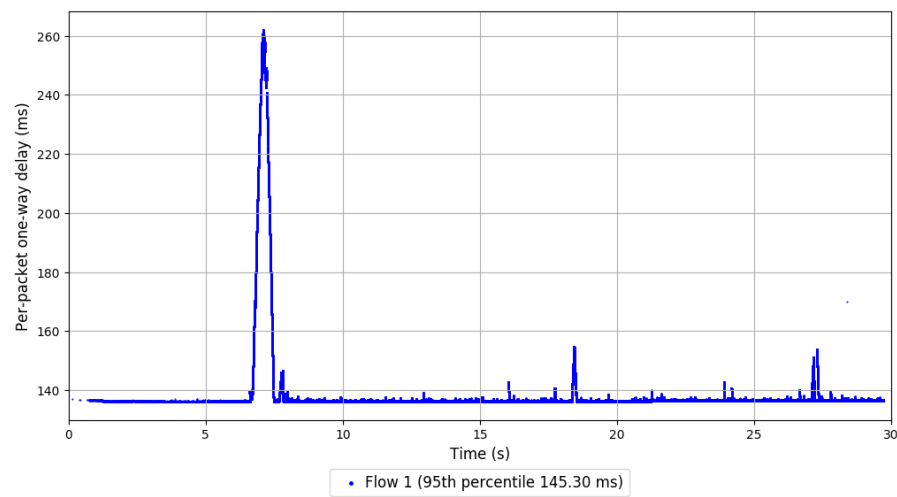
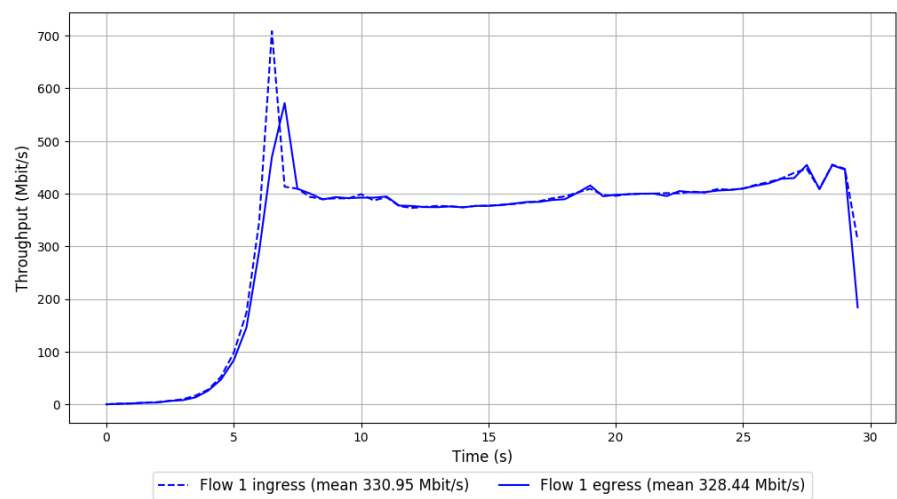
-- Flow 1:

Average throughput: 328.44 Mbit/s

95th percentile per-packet one-way delay: 145.301 ms

Loss rate: 1.67%

Run 10: Report of Vivace-latency — Data Link

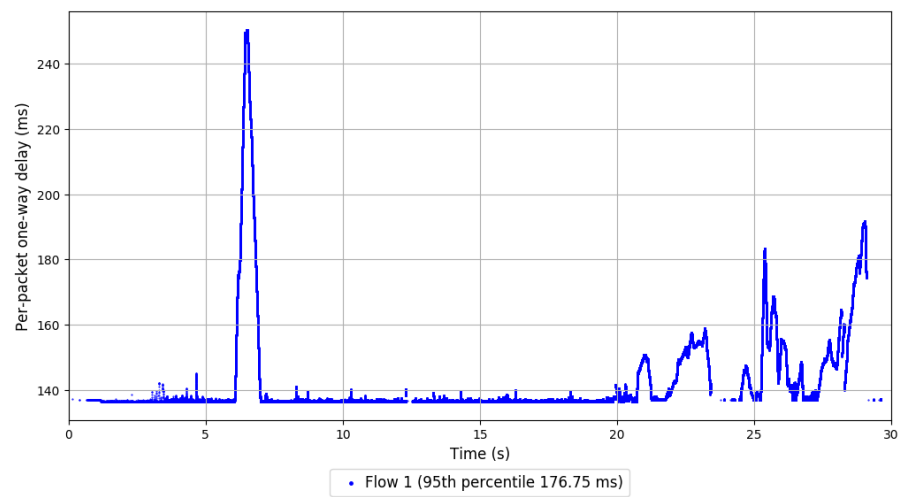
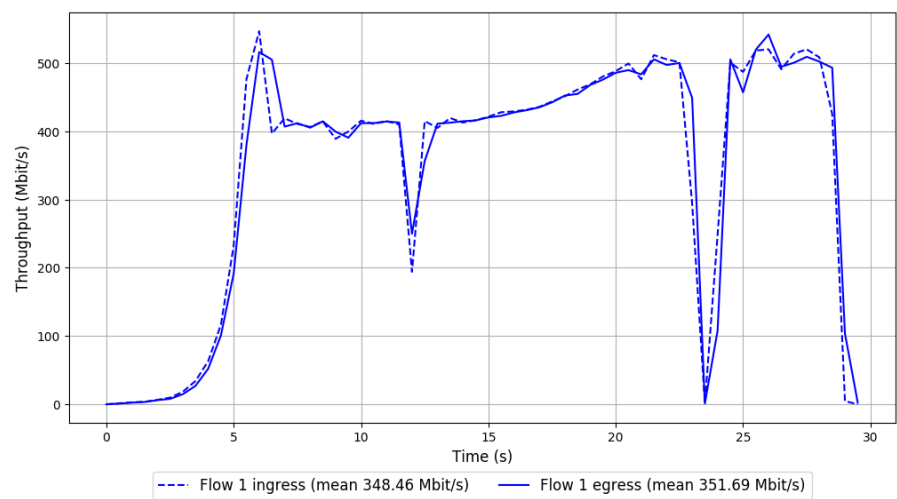


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-13 11:12:10
End at: 2018-02-13 11:12:40

# Below is generated by plot.py at 2018-02-13 17:20:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 351.69 Mbit/s
95th percentile per-packet one-way delay: 176.747 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 351.69 Mbit/s
95th percentile per-packet one-way delay: 176.747 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-loss — Data Link

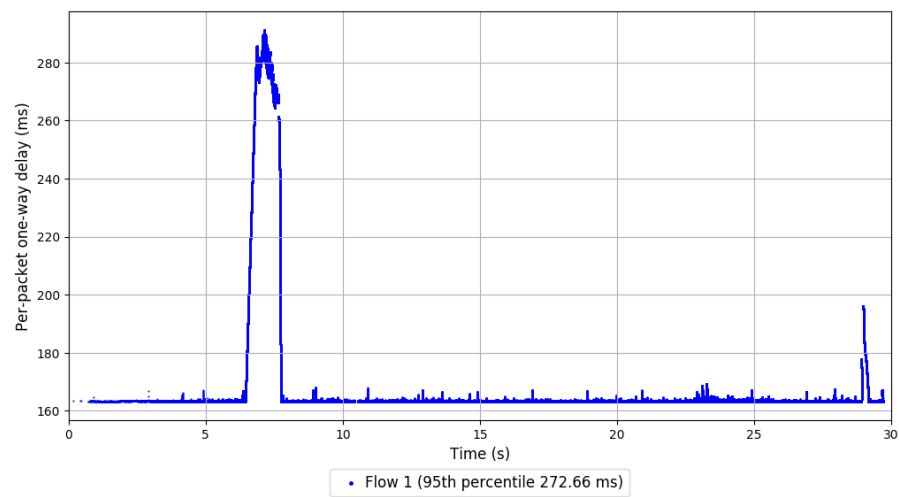
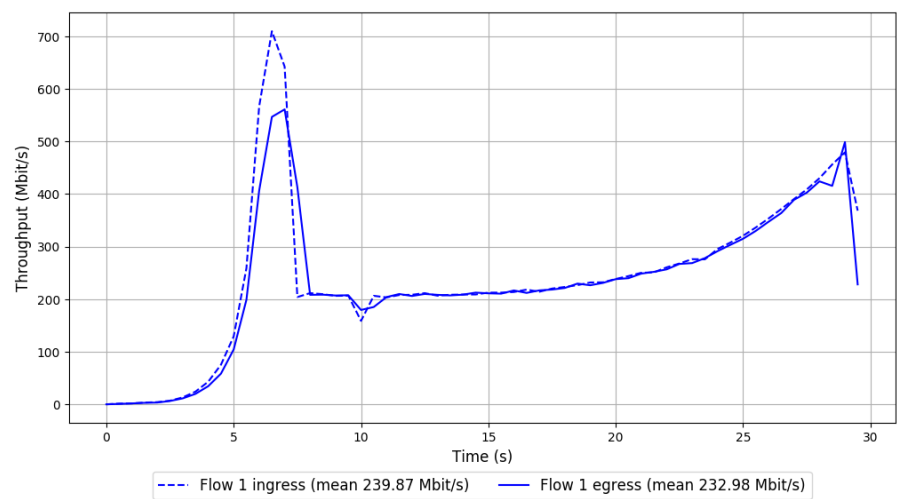


```
Run 2: Statistics of Vivace-loss

Start at: 2018-02-13 11:28:10
End at: 2018-02-13 11:28:40

# Below is generated by plot.py at 2018-02-13 17:20:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 232.98 Mbit/s
95th percentile per-packet one-way delay: 272.660 ms
Loss rate: 3.85%
-- Flow 1:
Average throughput: 232.98 Mbit/s
95th percentile per-packet one-way delay: 272.660 ms
Loss rate: 3.85%
```

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-13 11:43:39

End at: 2018-02-13 11:44:09

Below is generated by plot.py at 2018-02-13 17:21:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 346.68 Mbit/s

95th percentile per-packet one-way delay: 272.433 ms

Loss rate: 10.04%

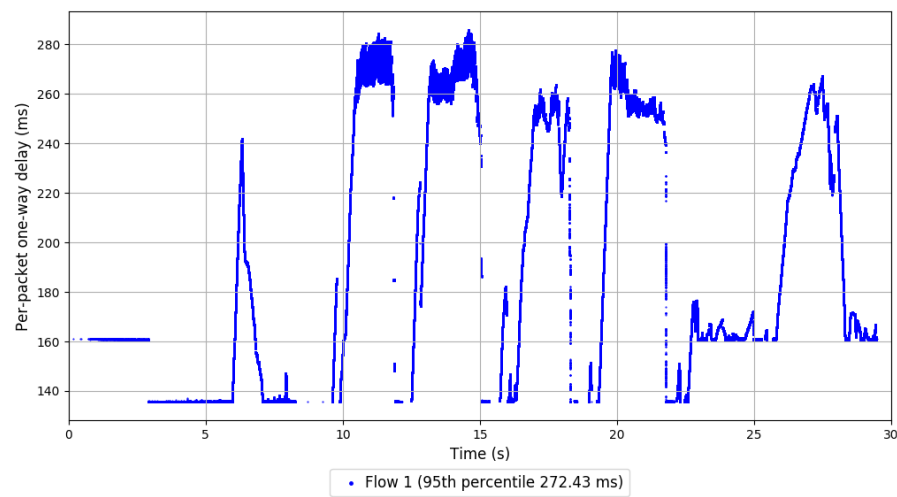
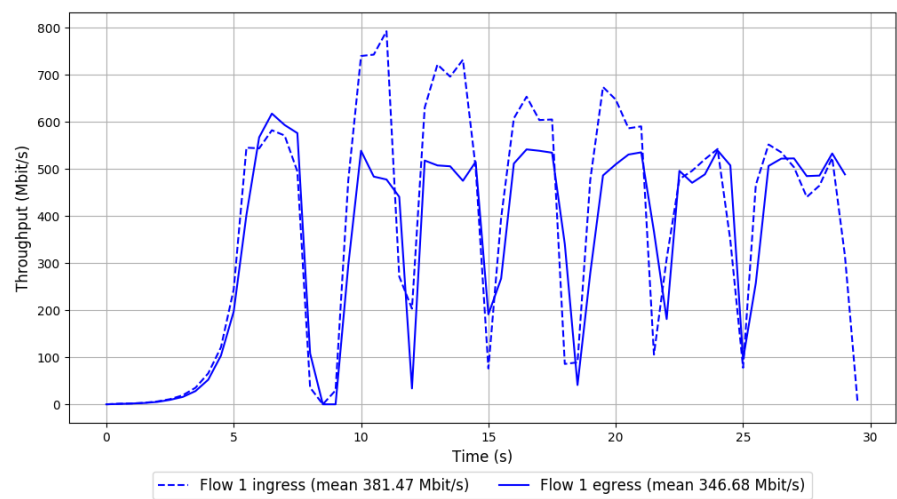
-- Flow 1:

Average throughput: 346.68 Mbit/s

95th percentile per-packet one-way delay: 272.433 ms

Loss rate: 10.04%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-13 11:59:13

End at: 2018-02-13 11:59:43

Below is generated by plot.py at 2018-02-13 17:23:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 379.46 Mbit/s

95th percentile per-packet one-way delay: 175.099 ms

Loss rate: 1.22%

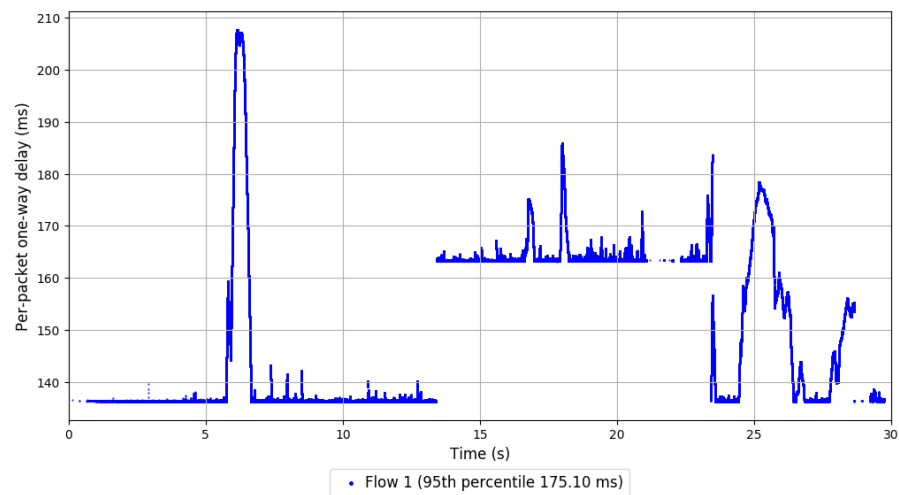
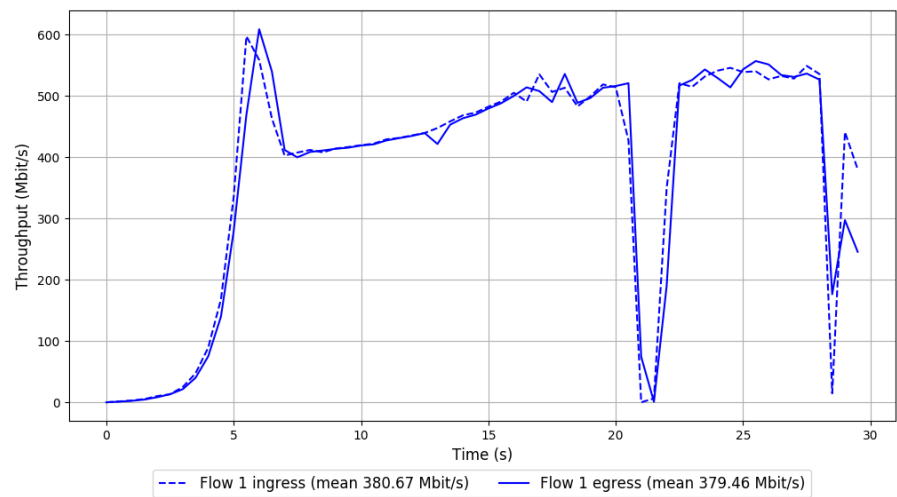
-- Flow 1:

Average throughput: 379.46 Mbit/s

95th percentile per-packet one-way delay: 175.099 ms

Loss rate: 1.22%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-13 12:14:47

End at: 2018-02-13 12:15:17

Below is generated by plot.py at 2018-02-13 17:23:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 125.99 Mbit/s

95th percentile per-packet one-way delay: 236.296 ms

Loss rate: 3.24%

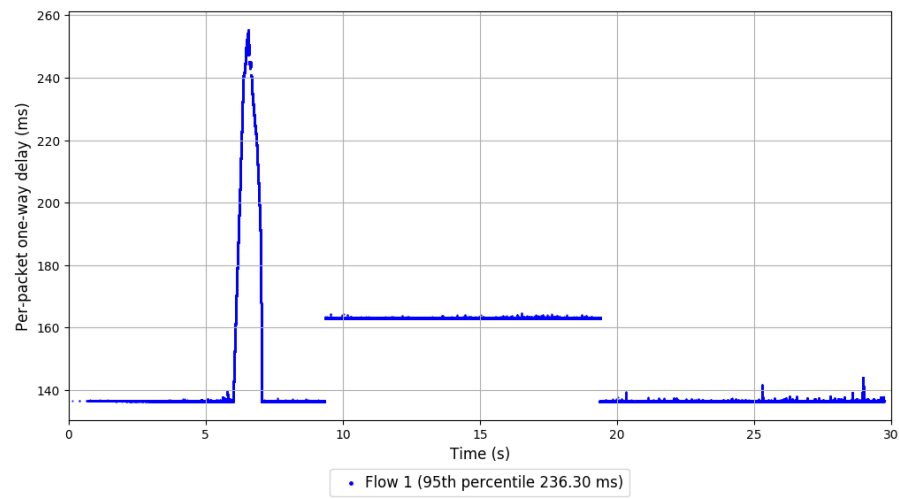
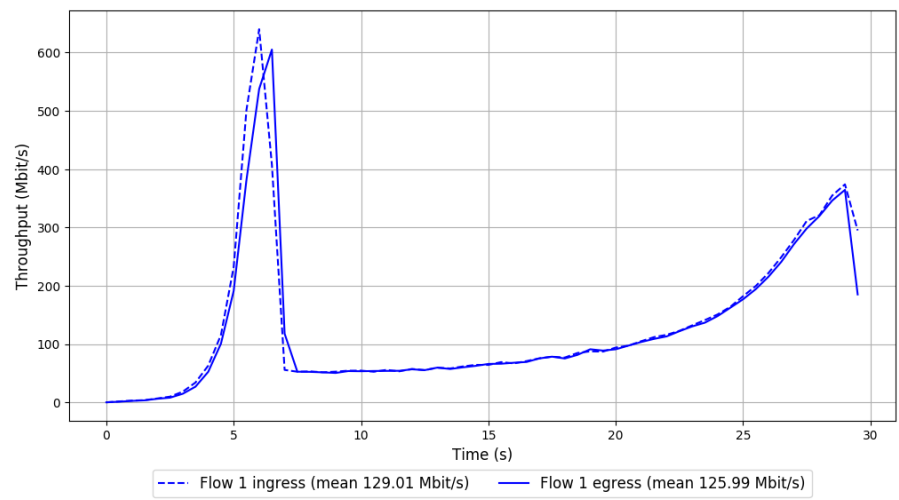
-- Flow 1:

Average throughput: 125.99 Mbit/s

95th percentile per-packet one-way delay: 236.296 ms

Loss rate: 3.24%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-13 12:30:37

End at: 2018-02-13 12:31:07

Below is generated by plot.py at 2018-02-13 17:23:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 273.31 Mbit/s

95th percentile per-packet one-way delay: 260.902 ms

Loss rate: 3.77%

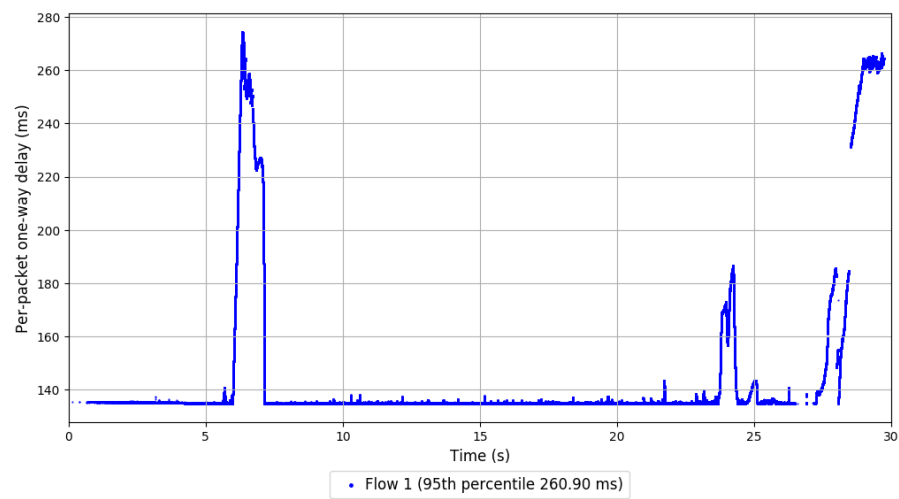
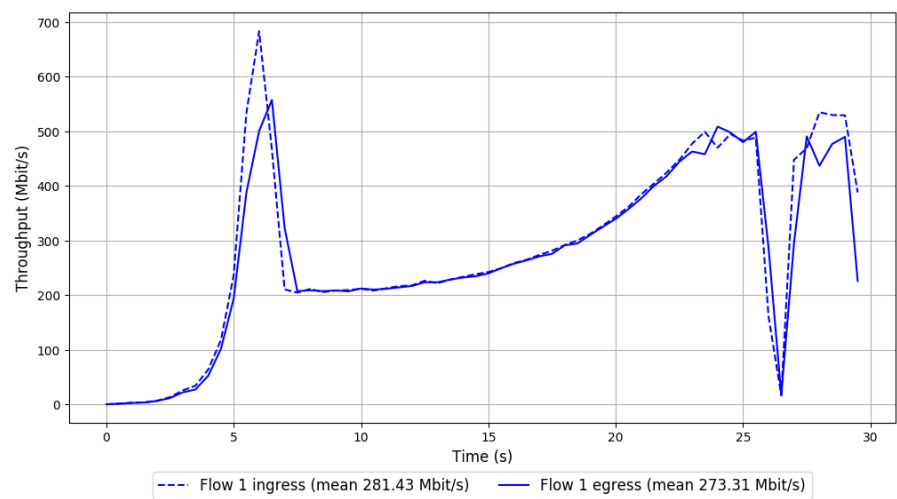
-- Flow 1:

Average throughput: 273.31 Mbit/s

95th percentile per-packet one-way delay: 260.902 ms

Loss rate: 3.77%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-13 12:46:16

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

Below is generated by plot.py at 2018-02-13 17:23:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.27 Mbit/s

95th percentile per-packet one-way delay: 263.480 ms

Loss rate: 4.66%

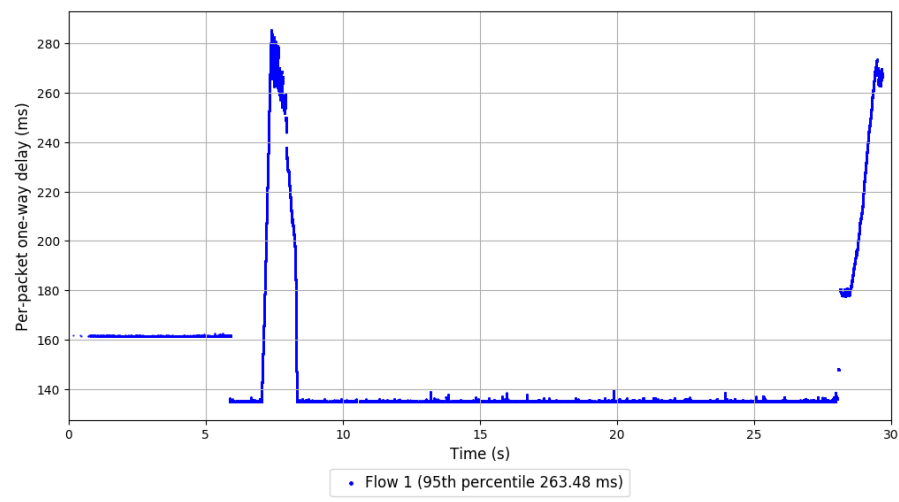
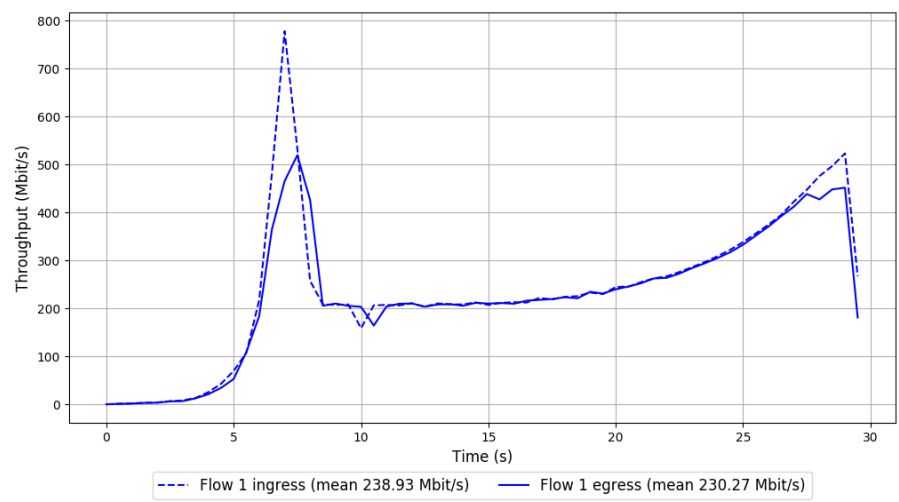
-- Flow 1:

Average throughput: 230.27 Mbit/s

95th percentile per-packet one-way delay: 263.480 ms

Loss rate: 4.66%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-13 13:01:28

End at: 2018-02-13 13:01:58

Below is generated by plot.py at 2018-02-13 17:23:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.33 Mbit/s

95th percentile per-packet one-way delay: 282.029 ms

Loss rate: 6.41%

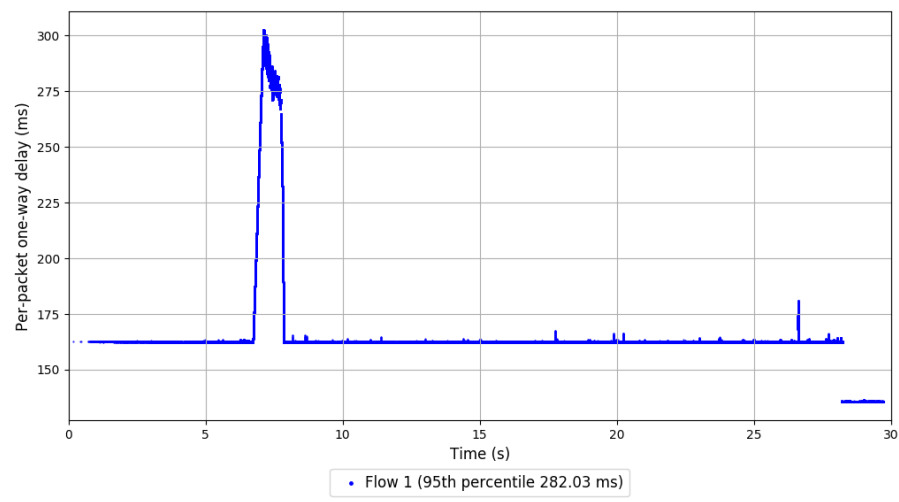
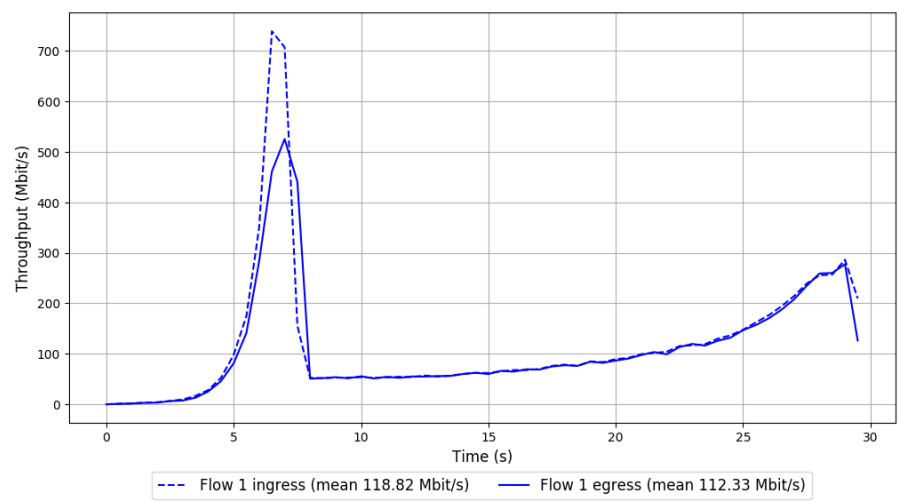
-- Flow 1:

Average throughput: 112.33 Mbit/s

95th percentile per-packet one-way delay: 282.029 ms

Loss rate: 6.41%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

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

End at: 2018-02-13 13:17:29

Below is generated by plot.py at 2018-02-13 17:23:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.92 Mbit/s

95th percentile per-packet one-way delay: 136.231 ms

Loss rate: 2.54%

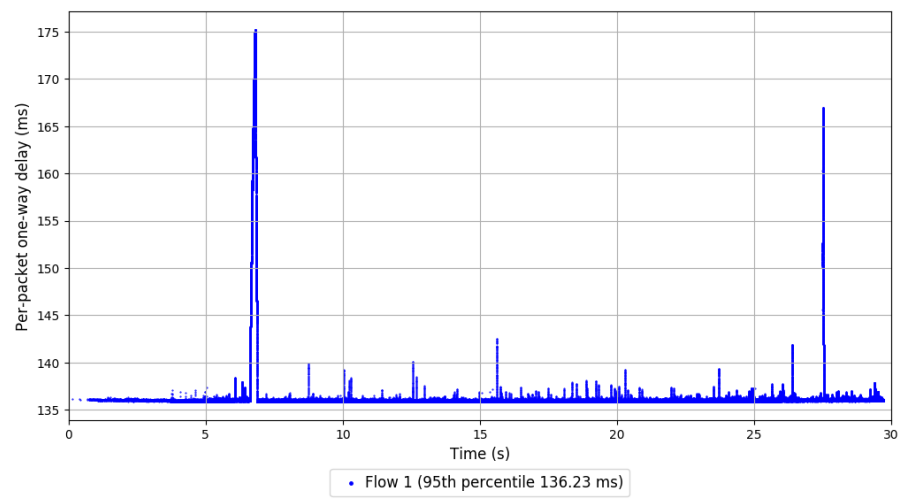
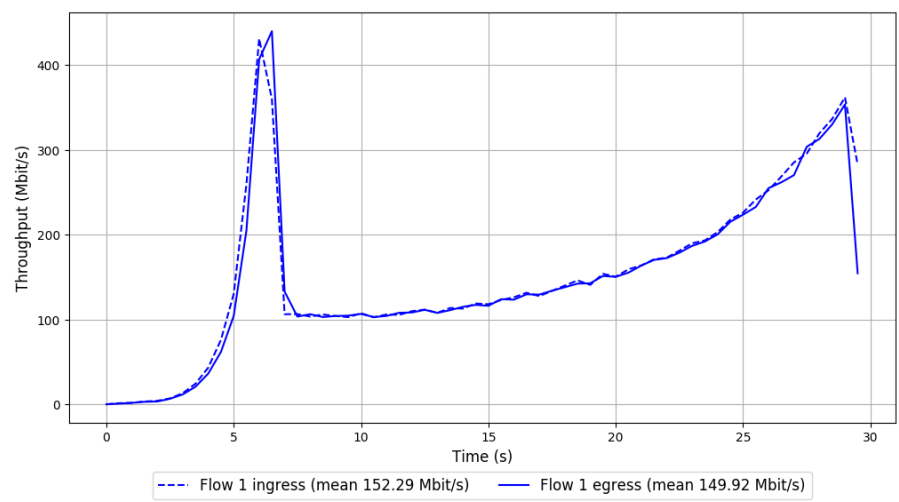
-- Flow 1:

Average throughput: 149.92 Mbit/s

95th percentile per-packet one-way delay: 136.231 ms

Loss rate: 2.54%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

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

End at: 2018-02-13 13:32:40

Below is generated by plot.py at 2018-02-13 17:23:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.91 Mbit/s

95th percentile per-packet one-way delay: 264.446 ms

Loss rate: 6.37%

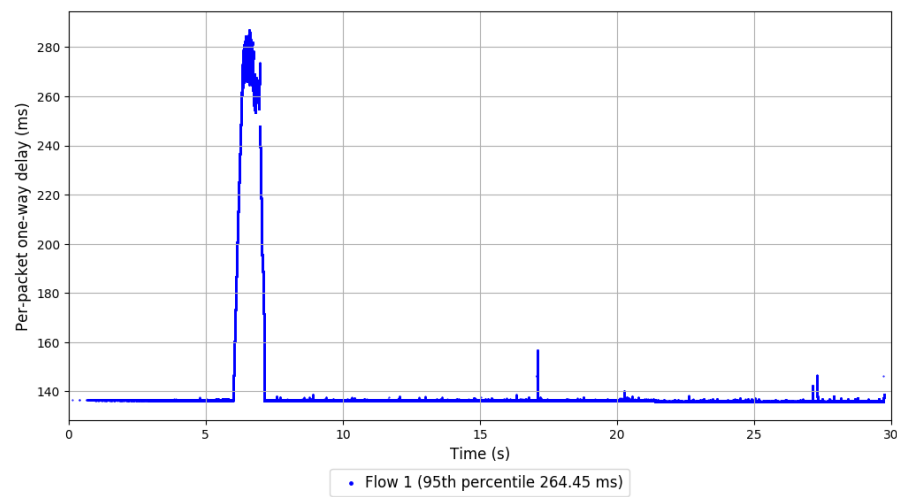
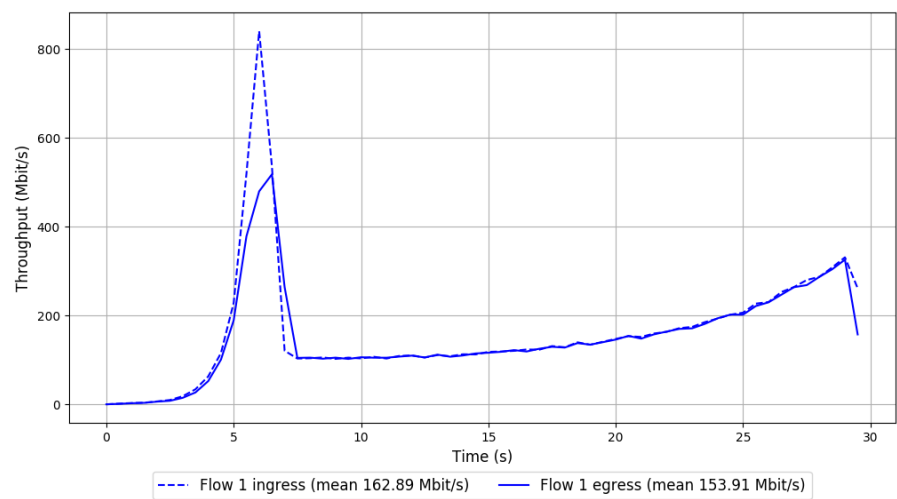
-- Flow 1:

Average throughput: 153.91 Mbit/s

95th percentile per-packet one-way delay: 264.446 ms

Loss rate: 6.37%

Run 10: Report of Vivace-loss — Data Link

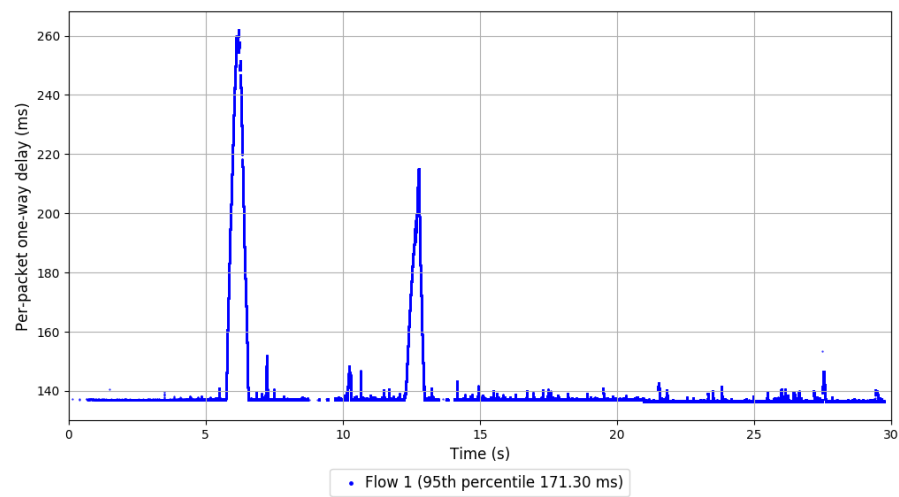
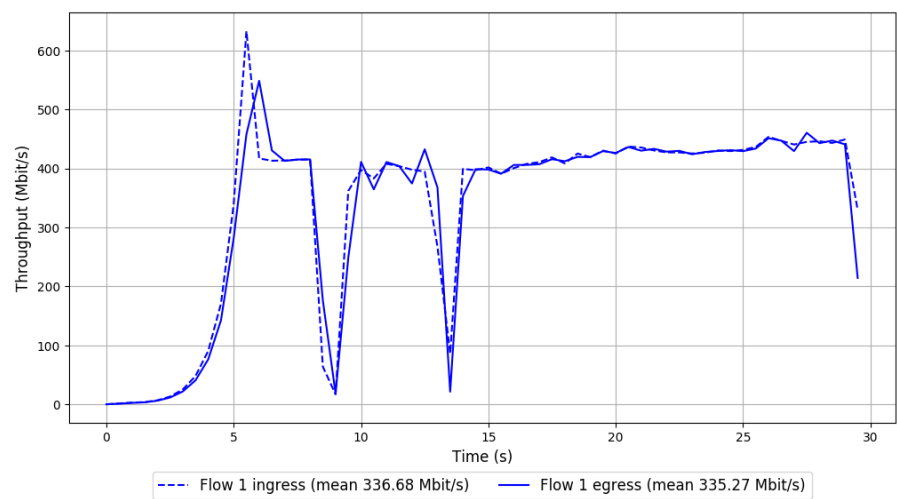


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-13 11:21:05
End at: 2018-02-13 11:21:35

# Below is generated by plot.py at 2018-02-13 17:26:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 335.27 Mbit/s
95th percentile per-packet one-way delay: 171.303 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 335.27 Mbit/s
95th percentile per-packet one-way delay: 171.303 ms
Loss rate: 1.33%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-13 11:36:29

End at: 2018-02-13 11:36:59

Below is generated by plot.py at 2018-02-13 17:27:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 377.37 Mbit/s

95th percentile per-packet one-way delay: 156.799 ms

Loss rate: 1.45%

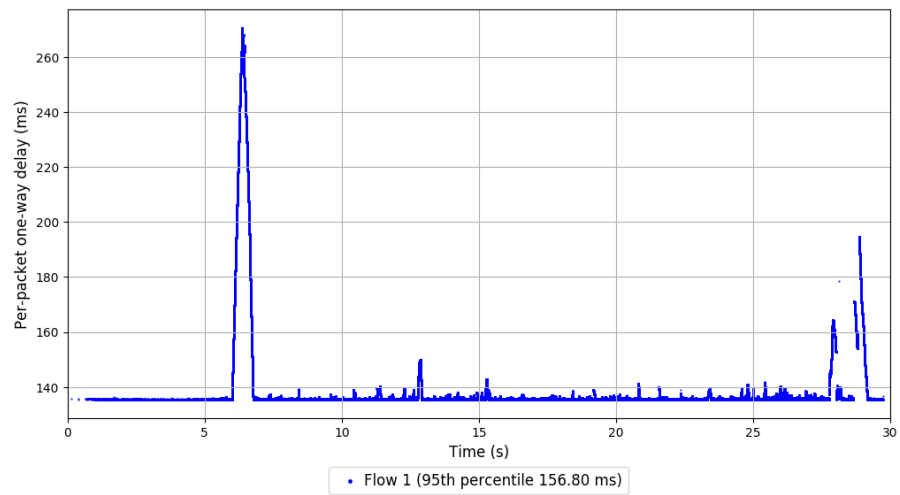
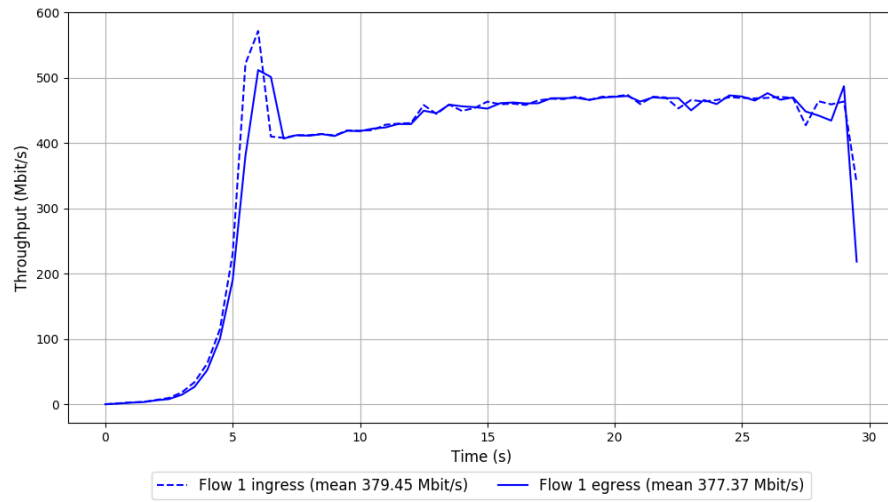
-- Flow 1:

Average throughput: 377.37 Mbit/s

95th percentile per-packet one-way delay: 156.799 ms

Loss rate: 1.45%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-13 11:52:01

End at: 2018-02-13 11:52:31

Below is generated by plot.py at 2018-02-13 17:27:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 365.51 Mbit/s

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

Loss rate: 1.02%

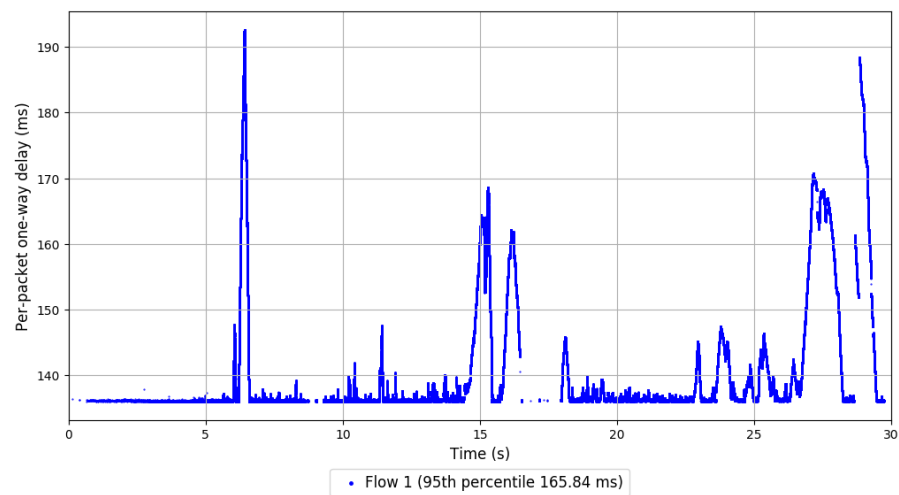
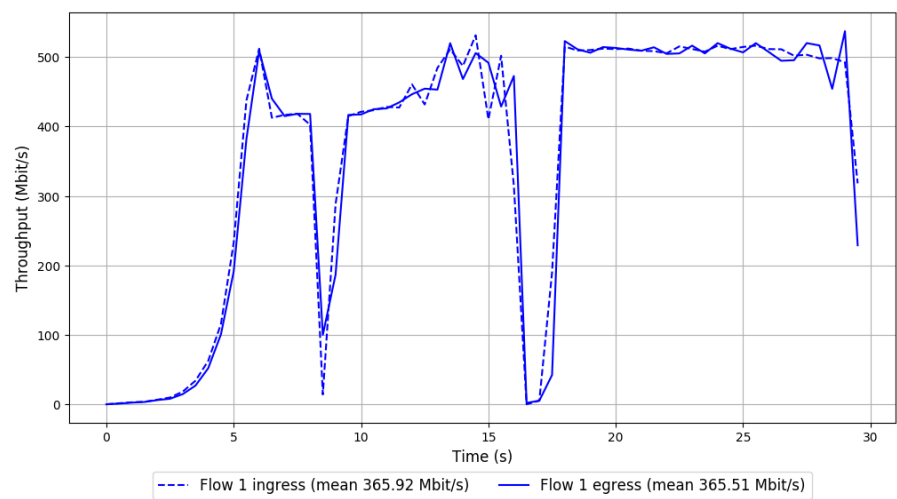
-- Flow 1:

Average throughput: 365.51 Mbit/s

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

Loss rate: 1.02%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-13 12:07:33

End at: 2018-02-13 12:08:03

Below is generated by plot.py at 2018-02-13 17:28:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 357.62 Mbit/s

95th percentile per-packet one-way delay: 163.642 ms

Loss rate: 1.69%

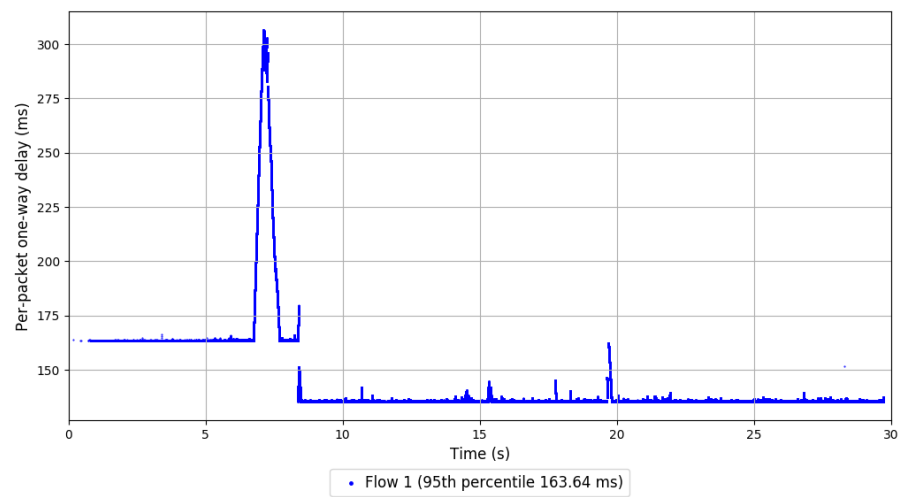
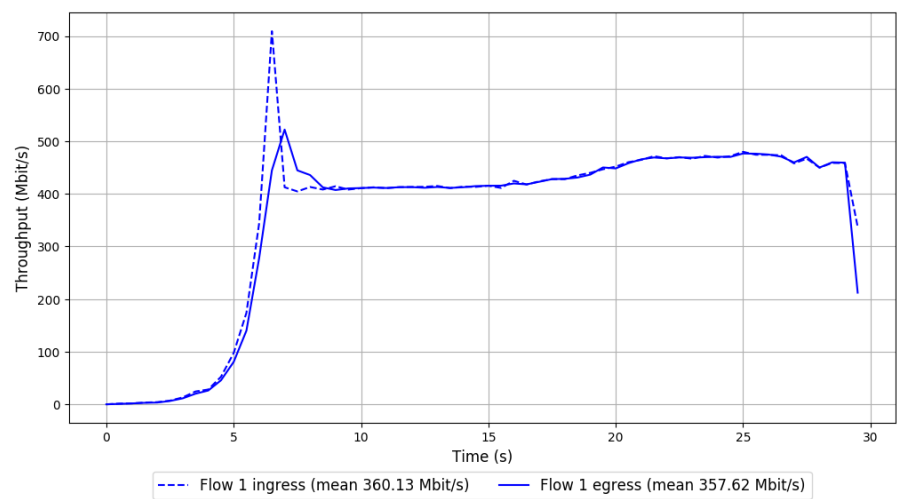
-- Flow 1:

Average throughput: 357.62 Mbit/s

95th percentile per-packet one-way delay: 163.642 ms

Loss rate: 1.69%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-13 12:23:12

End at: 2018-02-13 12:23:42

Below is generated by plot.py at 2018-02-13 17:28:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 376.31 Mbit/s

95th percentile per-packet one-way delay: 170.432 ms

Loss rate: 1.90%

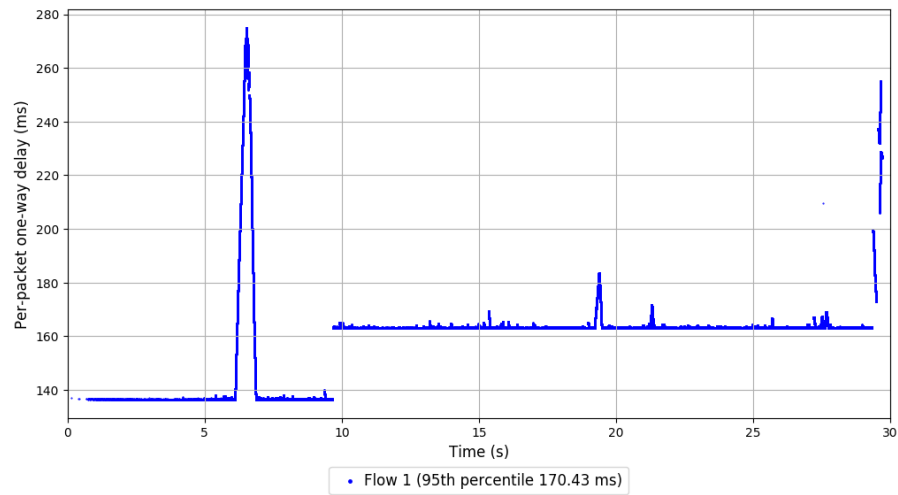
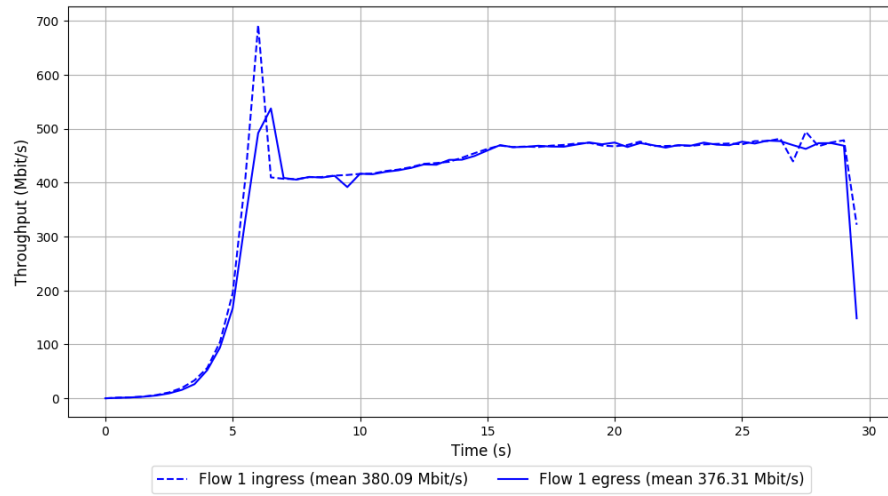
-- Flow 1:

Average throughput: 376.31 Mbit/s

95th percentile per-packet one-way delay: 170.432 ms

Loss rate: 1.90%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-13 12:39:11

End at: 2018-02-13 12:39:41

Below is generated by plot.py at 2018-02-13 17:28:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 341.94 Mbit/s

95th percentile per-packet one-way delay: 163.750 ms

Loss rate: 1.37%

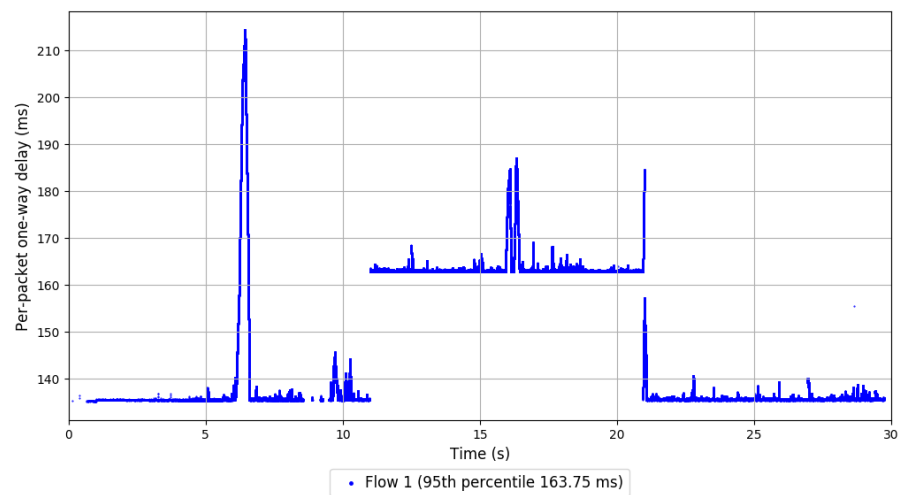
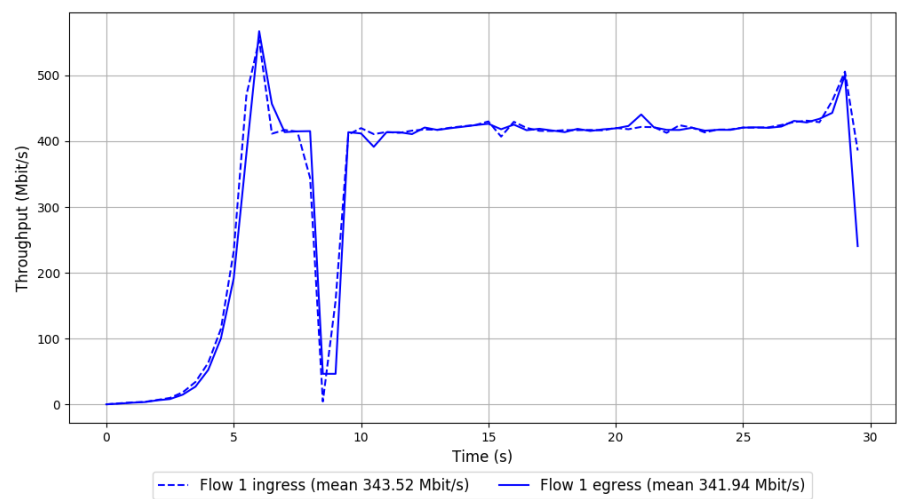
-- Flow 1:

Average throughput: 341.94 Mbit/s

95th percentile per-packet one-way delay: 163.750 ms

Loss rate: 1.37%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-13 12:54:17

End at: 2018-02-13 12:54:47

Below is generated by plot.py at 2018-02-13 17:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 372.79 Mbit/s

95th percentile per-packet one-way delay: 176.964 ms

Loss rate: 2.09%

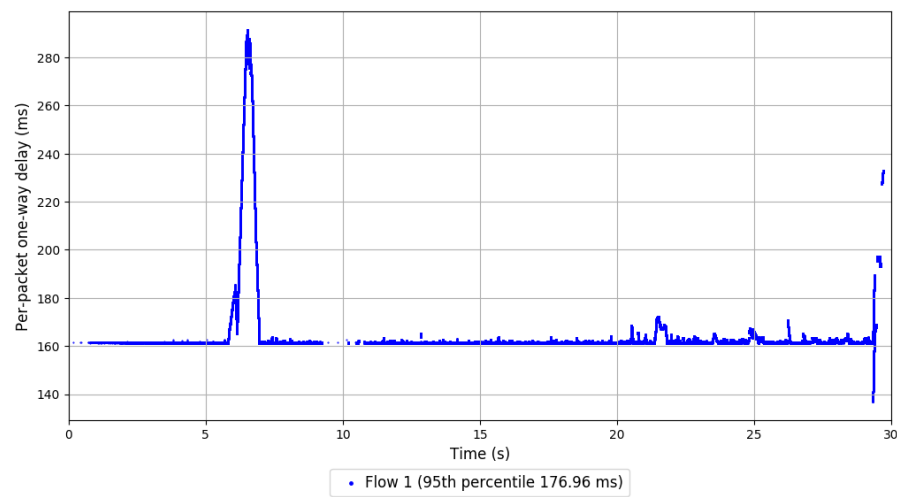
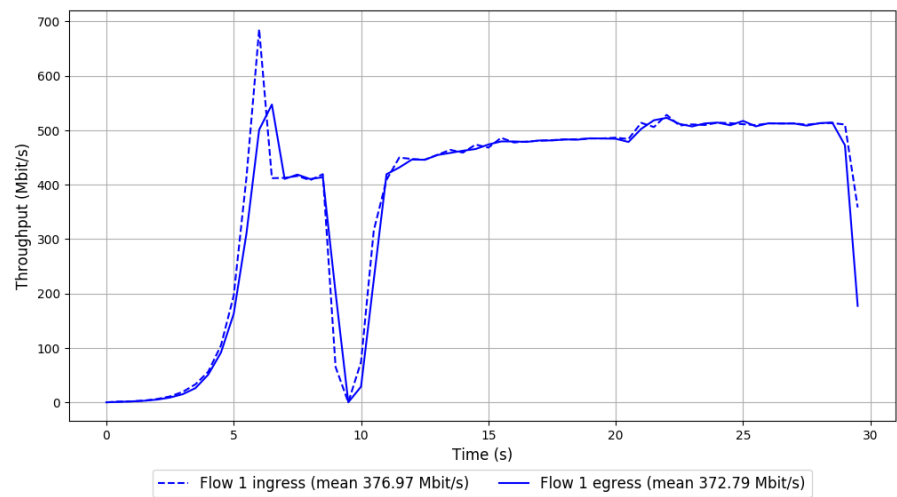
-- Flow 1:

Average throughput: 372.79 Mbit/s

95th percentile per-packet one-way delay: 176.964 ms

Loss rate: 2.09%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-13 13:09:46

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

Below is generated by plot.py at 2018-02-13 17:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 361.14 Mbit/s

95th percentile per-packet one-way delay: 139.480 ms

Loss rate: 1.30%

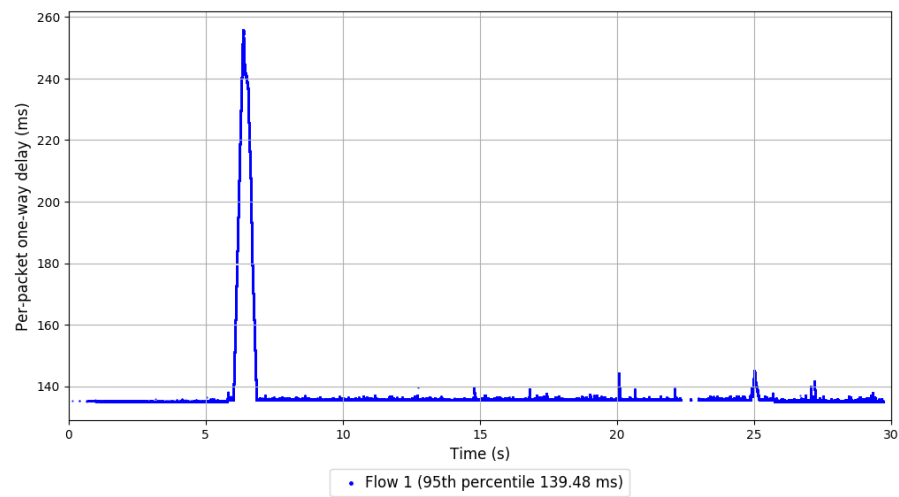
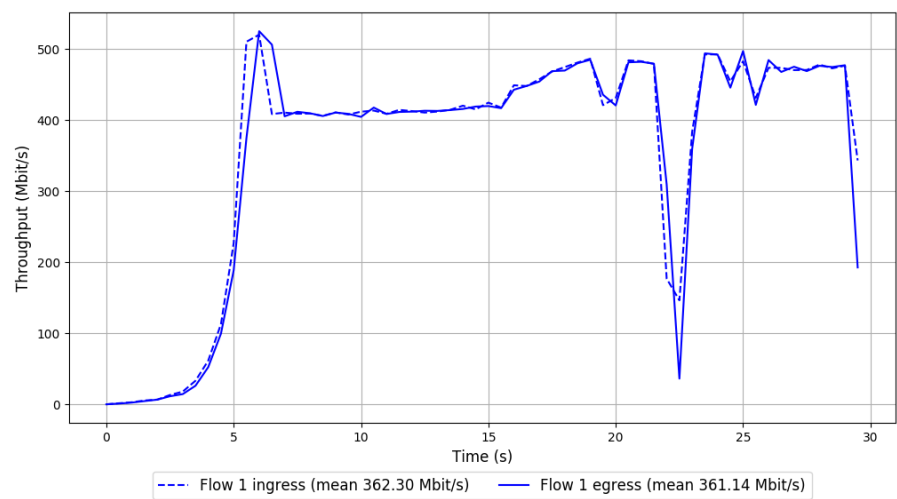
-- Flow 1:

Average throughput: 361.14 Mbit/s

95th percentile per-packet one-way delay: 139.480 ms

Loss rate: 1.30%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

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

End at: 2018-02-13 13:25:35

Below is generated by plot.py at 2018-02-13 17:29:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 267.46 Mbit/s

95th percentile per-packet one-way delay: 213.880 ms

Loss rate: 2.39%

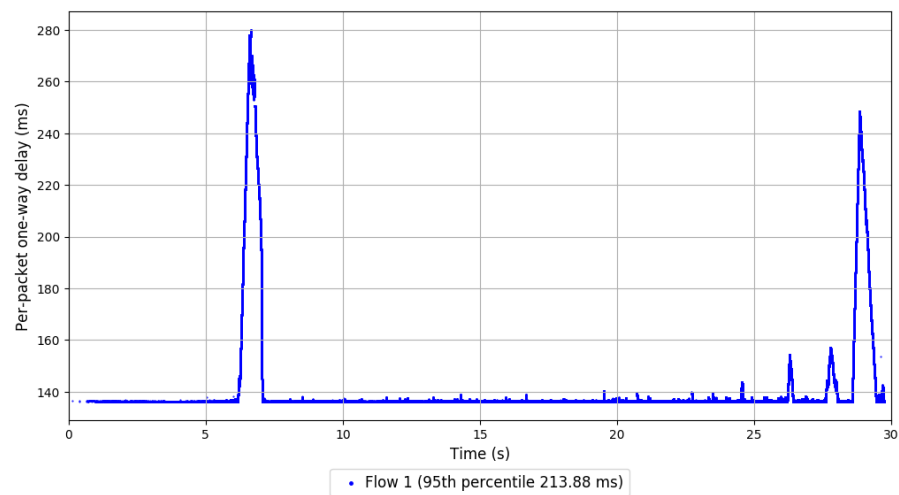
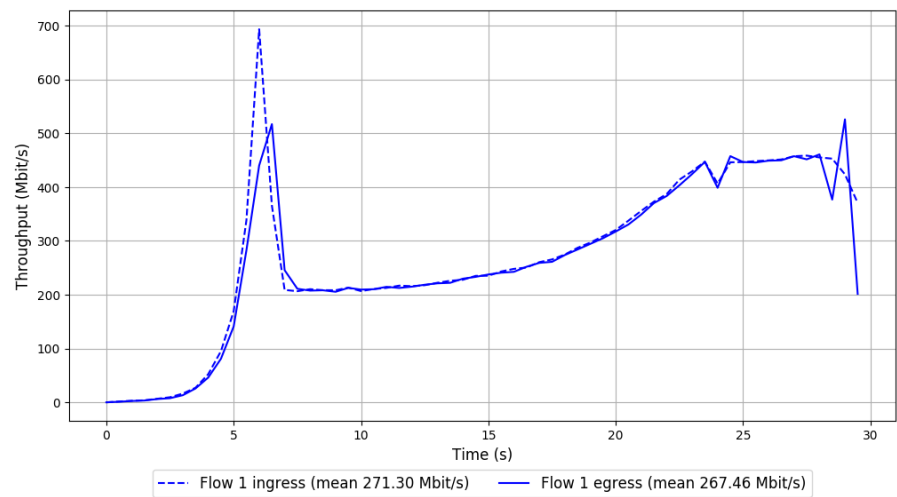
-- Flow 1:

Average throughput: 267.46 Mbit/s

95th percentile per-packet one-way delay: 213.880 ms

Loss rate: 2.39%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-13 13:40:47

End at: 2018-02-13 13:41:17

Below is generated by plot.py at 2018-02-13 17:29:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 354.36 Mbit/s

95th percentile per-packet one-way delay: 148.531 ms

Loss rate: 1.67%

-- Flow 1:

Average throughput: 354.36 Mbit/s

95th percentile per-packet one-way delay: 148.531 ms

Loss rate: 1.67%

Run 10: Report of Vivace-LTE — Data Link

