

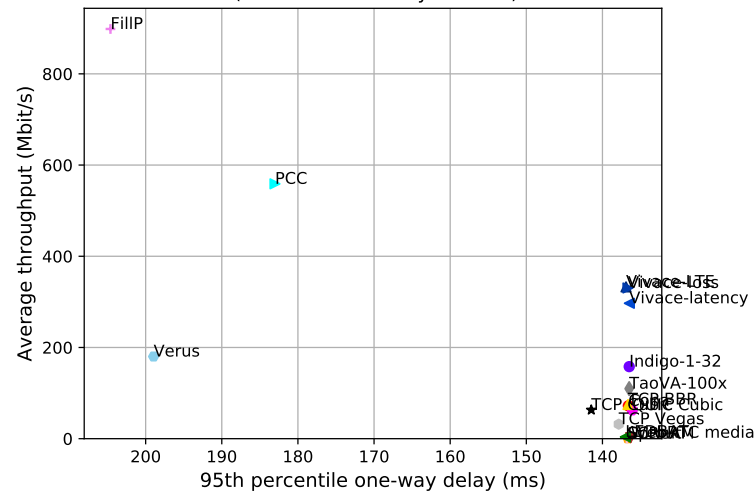
Pantheon Report

Generated at 2018-03-21 05:13:01 (UTC).
Data path: GCE Sydney Ethernet (*local*) → GCE London Ethernet (*remote*).
Repeated the test of 17 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

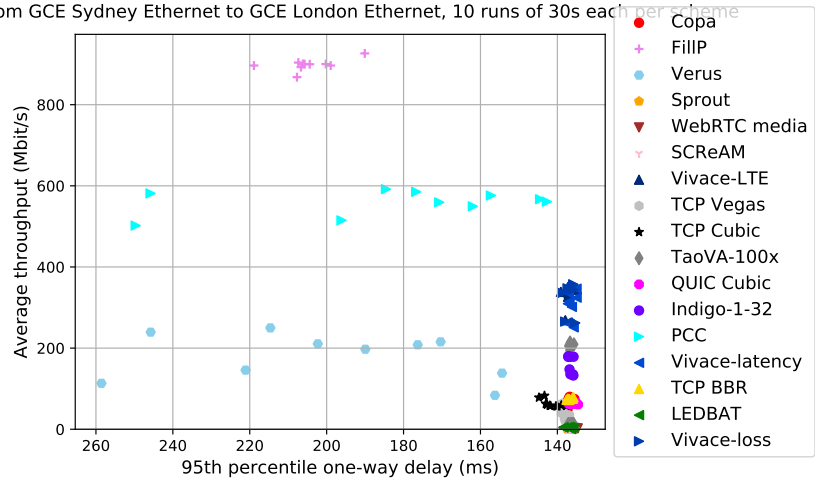
Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	74.93	136.64	0.00
TCP Cubic	10	63.03	141.47	0.00
LEDBAT	10	3.85	137.00	0.00
PCC	10	558.82	183.01	1.03
QUIC Cubic	7	62.52	136.08	0.00
SCReAM	10	0.22	136.79	0.00
WebRTC media	10	2.10	136.30	0.00
Sprout	10	0.43	136.66	0.00
TaoVA-100x	10	109.75	136.49	0.00
TCP Vegas	10	31.78	137.86	0.00
Verus	10	180.18	198.96	0.15
Copa	10	72.09	136.60	0.00
FillP	10	898.40	204.62	1.33
Indigo-1-32	10	157.99	136.49	0.00
Vivace-latency	10	296.90	136.47	0.00
Vivace-loss	10	330.50	136.64	0.00
Vivace-LTE	10	332.93	136.91	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-03-21 00:11:13

End at: 2018-03-21 00:11:43

Below is generated by plot.py at 2018-03-21 04:00:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.81 Mbit/s

95th percentile per-packet one-way delay: 137.630 ms

Loss rate: 0.00%

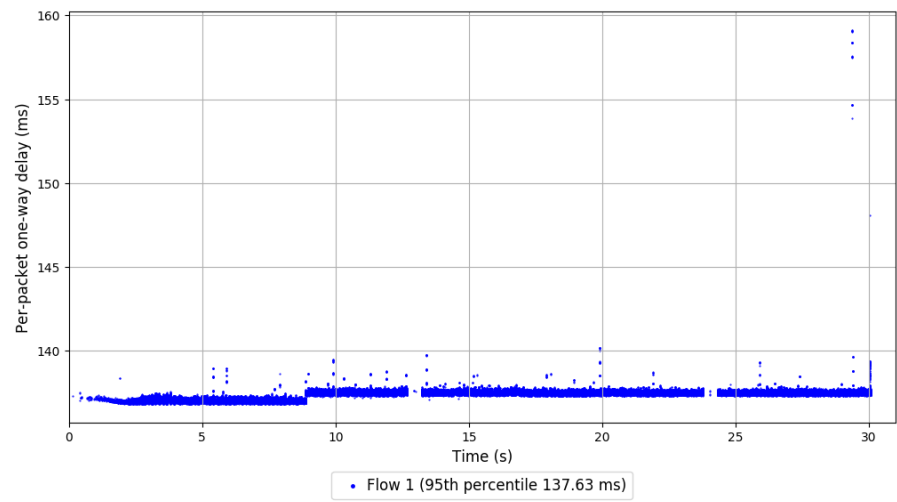
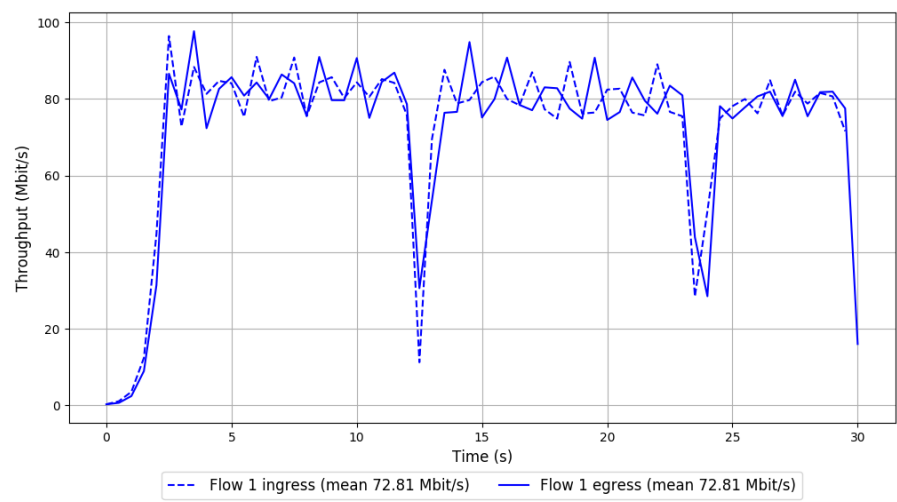
-- Flow 1:

Average throughput: 72.81 Mbit/s

95th percentile per-packet one-way delay: 137.630 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-03-21 00:27:37

End at: 2018-03-21 00:28:07

Below is generated by plot.py at 2018-03-21 04:00:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.42 Mbit/s

95th percentile per-packet one-way delay: 137.265 ms

Loss rate: 0.00%

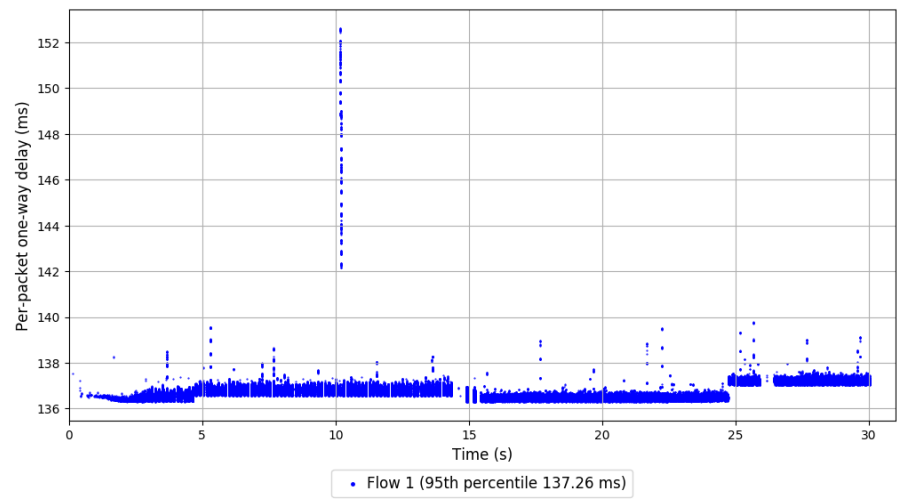
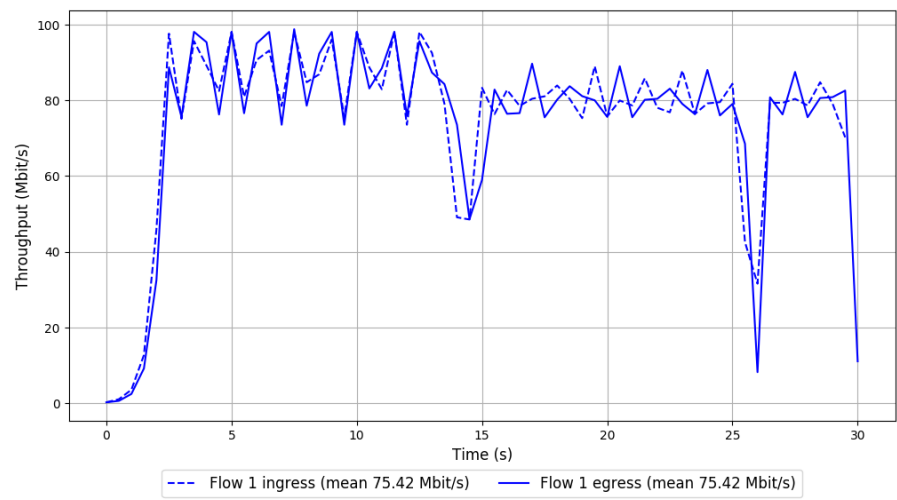
-- Flow 1:

Average throughput: 75.42 Mbit/s

95th percentile per-packet one-way delay: 137.265 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-03-21 00:43:30

End at: 2018-03-21 00:44:00

Below is generated by plot.py at 2018-03-21 04:00:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.53 Mbit/s

95th percentile per-packet one-way delay: 136.814 ms

Loss rate: 0.00%

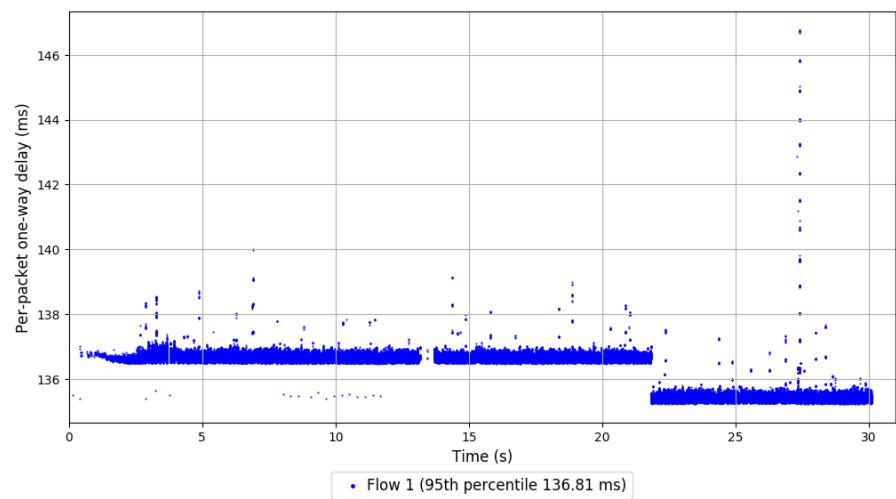
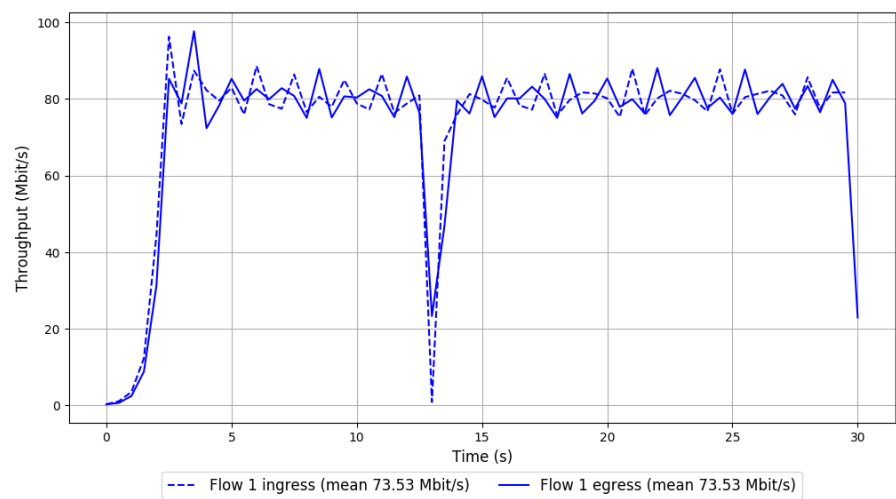
-- Flow 1:

Average throughput: 73.53 Mbit/s

95th percentile per-packet one-way delay: 136.814 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-03-21 00:59:44

End at: 2018-03-21 01:00:14

Below is generated by plot.py at 2018-03-21 04:00:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.82 Mbit/s

95th percentile per-packet one-way delay: 136.900 ms

Loss rate: 0.00%

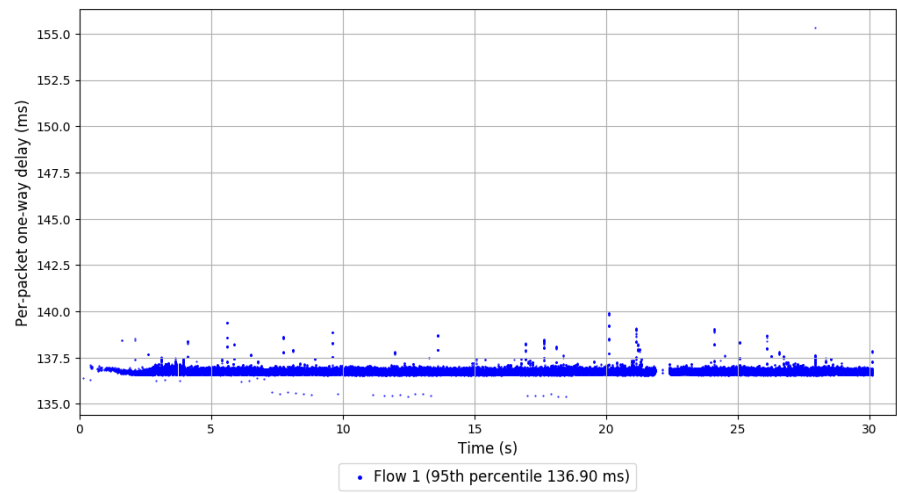
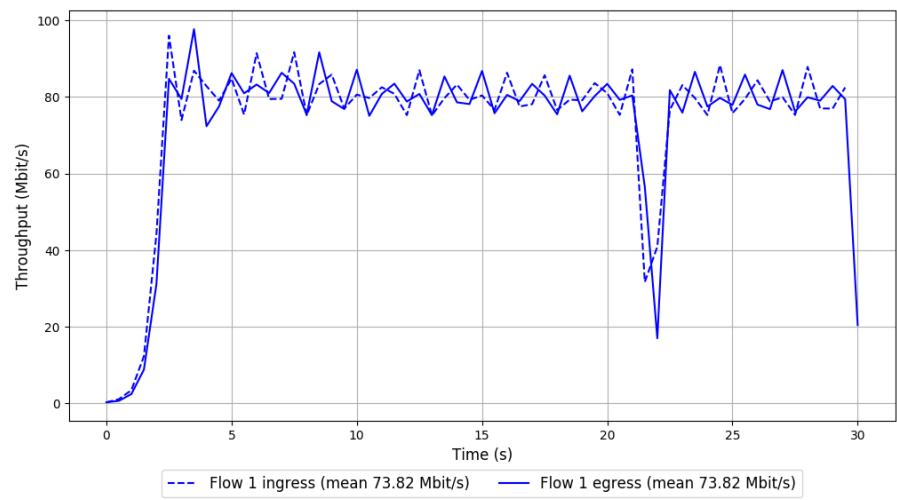
-- Flow 1:

Average throughput: 73.82 Mbit/s

95th percentile per-packet one-way delay: 136.900 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-03-21 01:15:57

End at: 2018-03-21 01:16:27

Below is generated by plot.py at 2018-03-21 04:00:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.07 Mbit/s

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

Loss rate: 0.00%

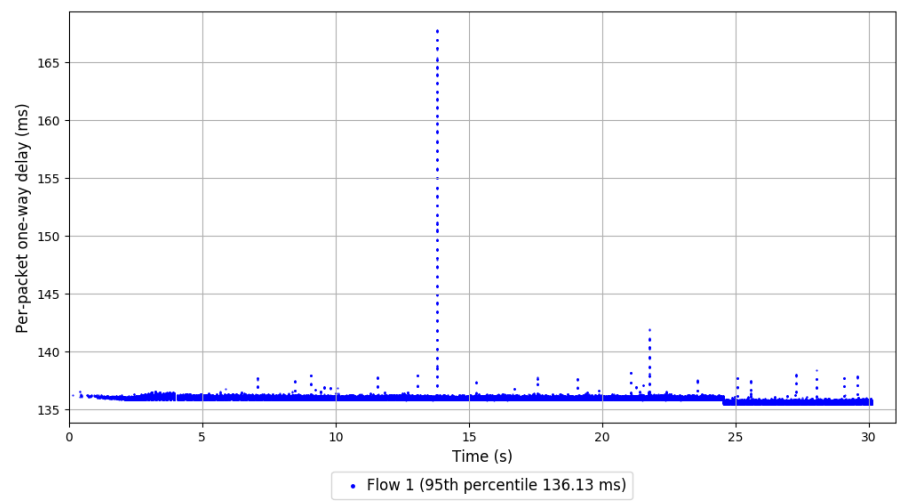
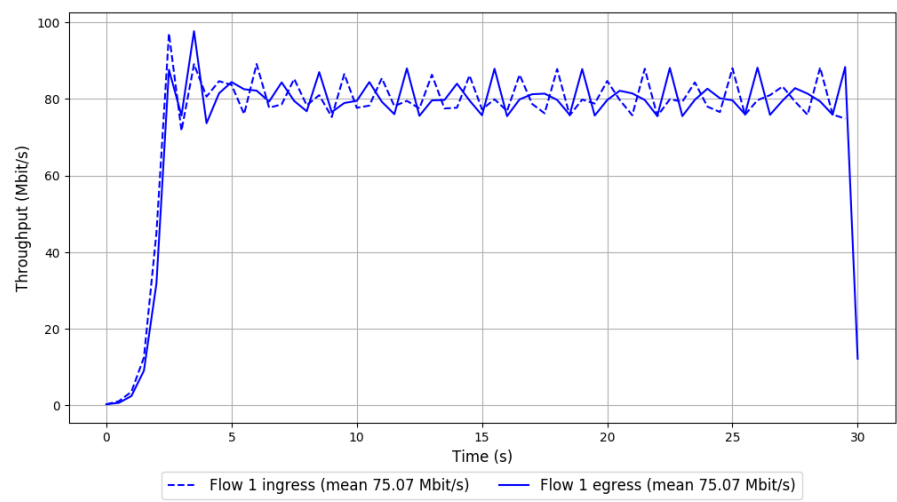
-- Flow 1:

Average throughput: 75.07 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-03-21 01:31:53

End at: 2018-03-21 01:32:23

Below is generated by plot.py at 2018-03-21 04:00:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.99 Mbit/s

95th percentile per-packet one-way delay: 135.995 ms

Loss rate: 0.00%

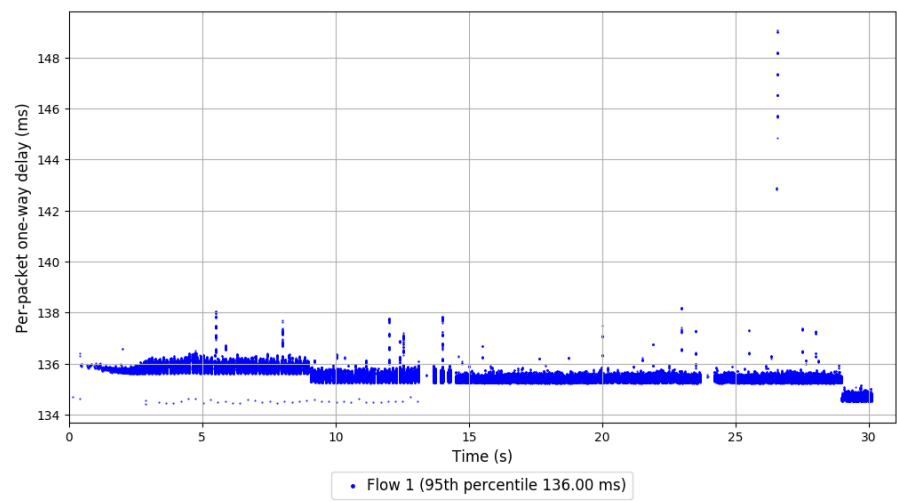
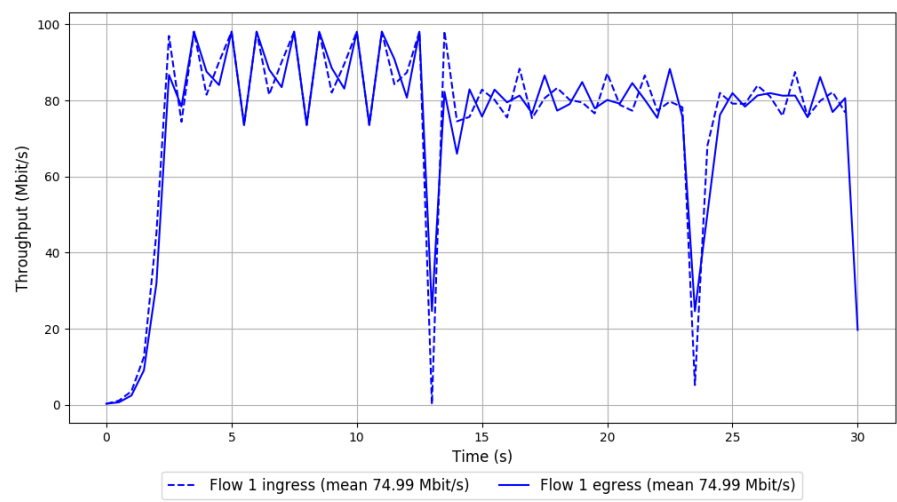
-- Flow 1:

Average throughput: 74.99 Mbit/s

95th percentile per-packet one-way delay: 135.995 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-03-21 01:48:09

End at: 2018-03-21 01:48:39

Below is generated by plot.py at 2018-03-21 04:00:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.57 Mbit/s

95th percentile per-packet one-way delay: 136.018 ms

Loss rate: 0.00%

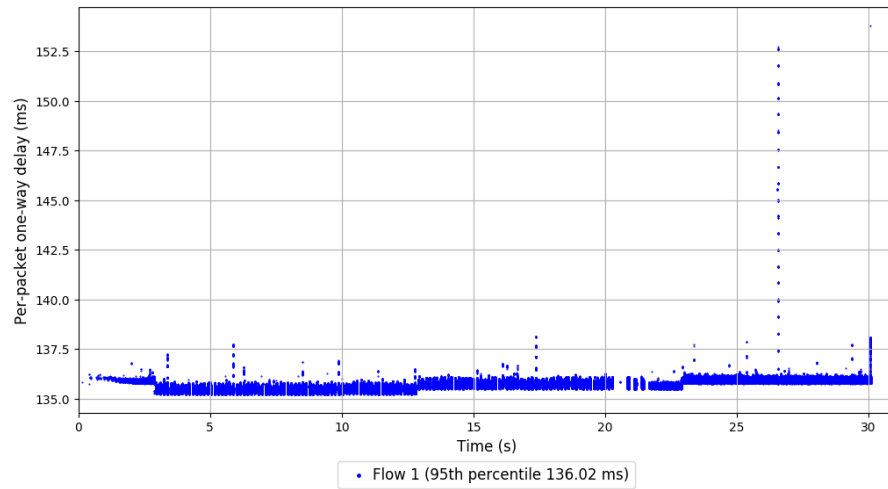
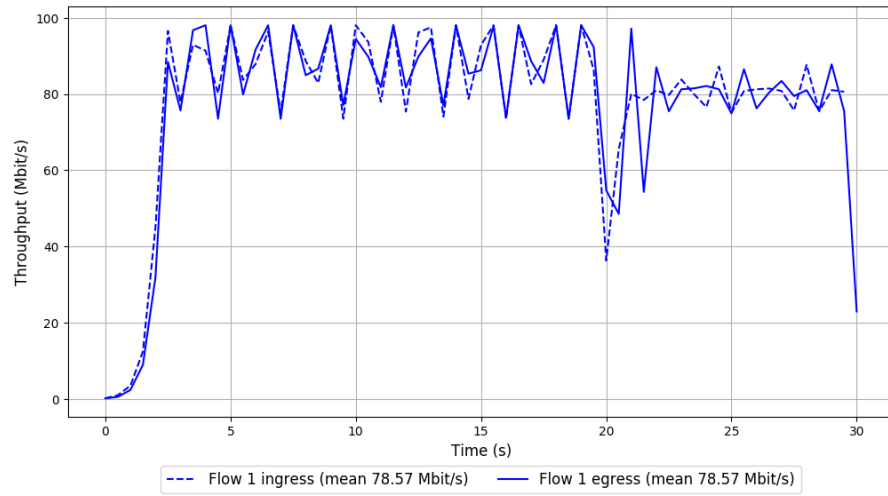
-- Flow 1:

Average throughput: 78.57 Mbit/s

95th percentile per-packet one-way delay: 136.018 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-03-21 02:04:03

End at: 2018-03-21 02:04:33

Below is generated by plot.py at 2018-03-21 04:00:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.80 Mbit/s

95th percentile per-packet one-way delay: 135.795 ms

Loss rate: 0.00%

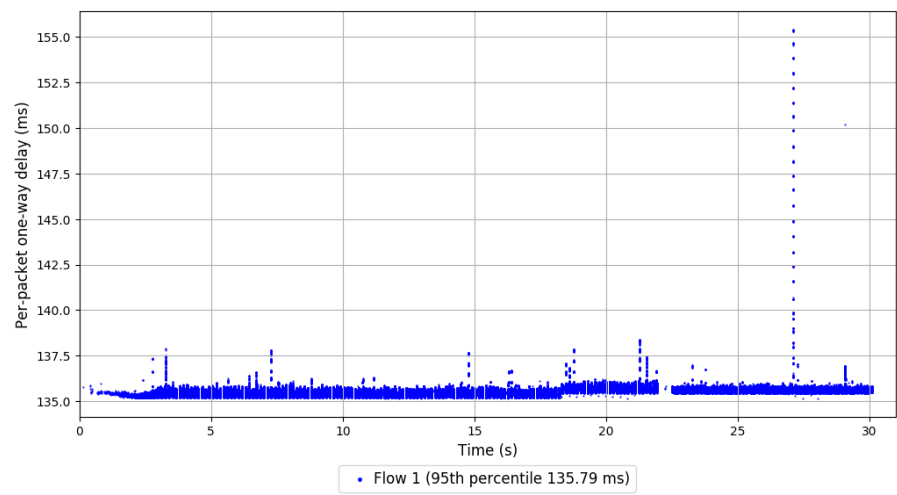
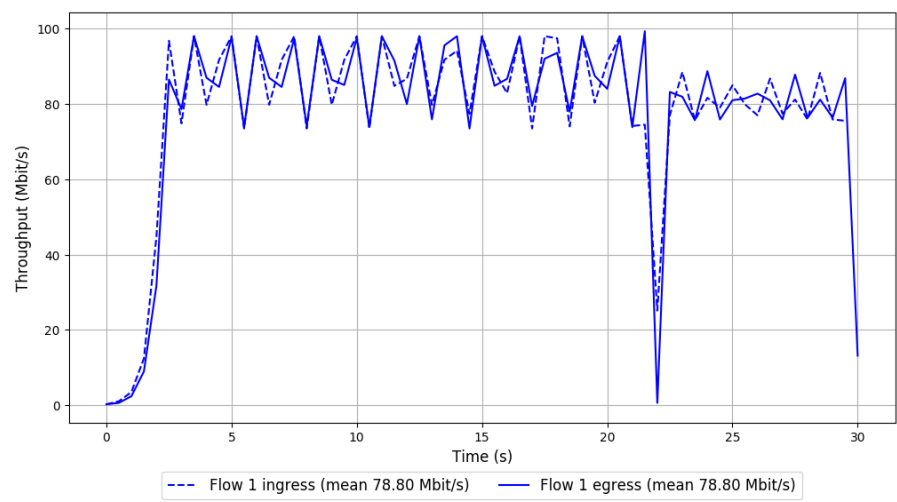
-- Flow 1:

Average throughput: 78.80 Mbit/s

95th percentile per-packet one-way delay: 135.795 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-03-21 02:19:55

End at: 2018-03-21 02:20:26

Below is generated by plot.py at 2018-03-21 04:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.25 Mbit/s

95th percentile per-packet one-way delay: 136.931 ms

Loss rate: 0.00%

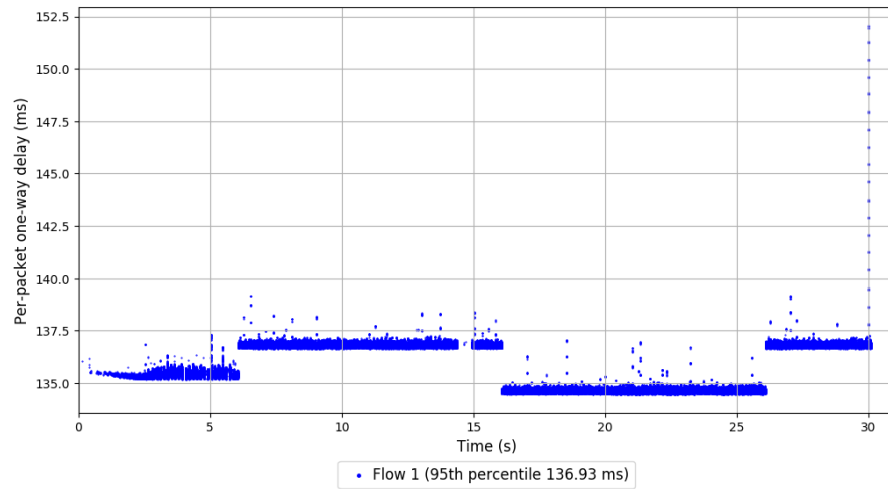
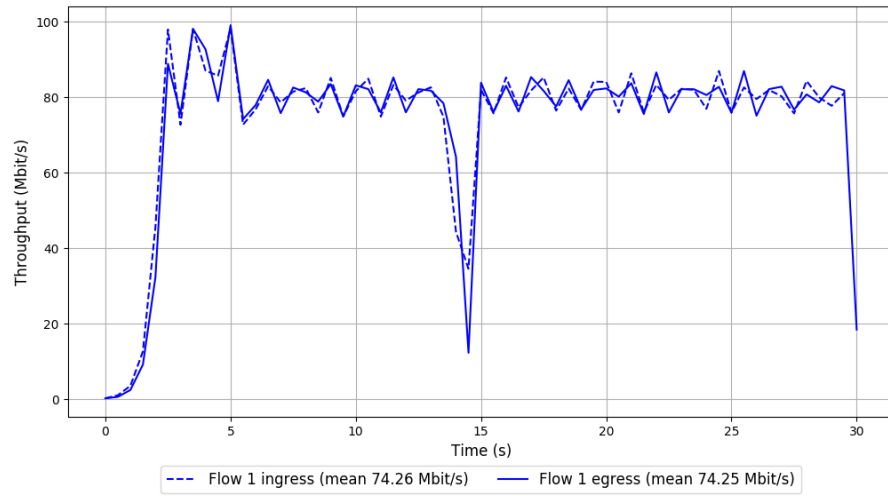
-- Flow 1:

Average throughput: 74.25 Mbit/s

95th percentile per-packet one-way delay: 136.931 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-03-21 02:36:17

End at: 2018-03-21 02:36:47

Below is generated by plot.py at 2018-03-21 04:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.04 Mbit/s

95th percentile per-packet one-way delay: 136.965 ms

Loss rate: 0.00%

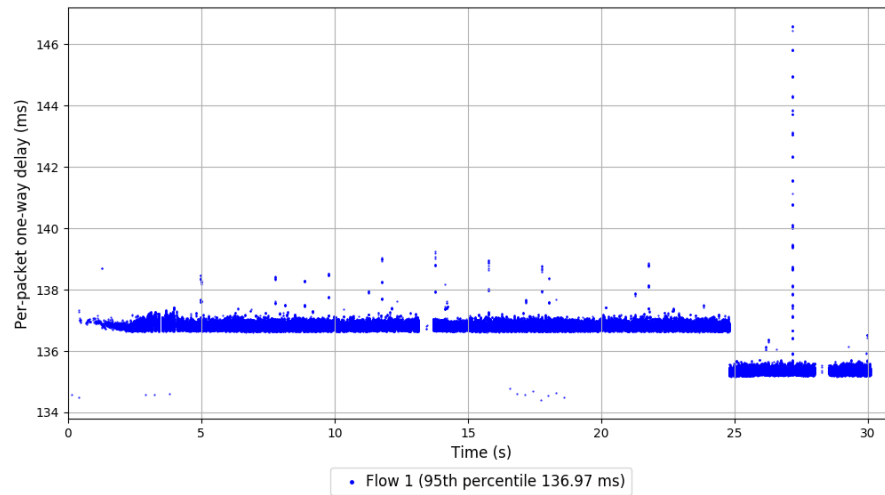
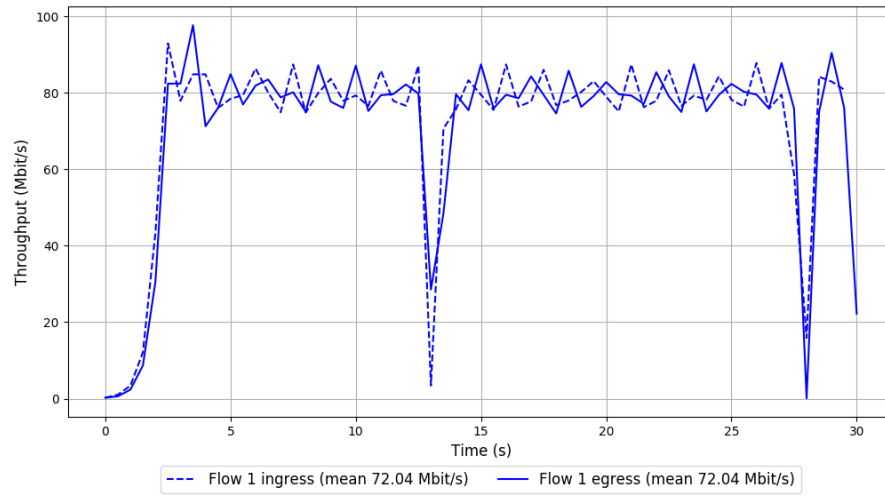
-- Flow 1:

Average throughput: 72.04 Mbit/s

95th percentile per-packet one-way delay: 136.965 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-03-21 00:14:32

End at: 2018-03-21 00:15:02

Below is generated by plot.py at 2018-03-21 04:02:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.13 Mbit/s

95th percentile per-packet one-way delay: 144.779 ms

Loss rate: 0.00%

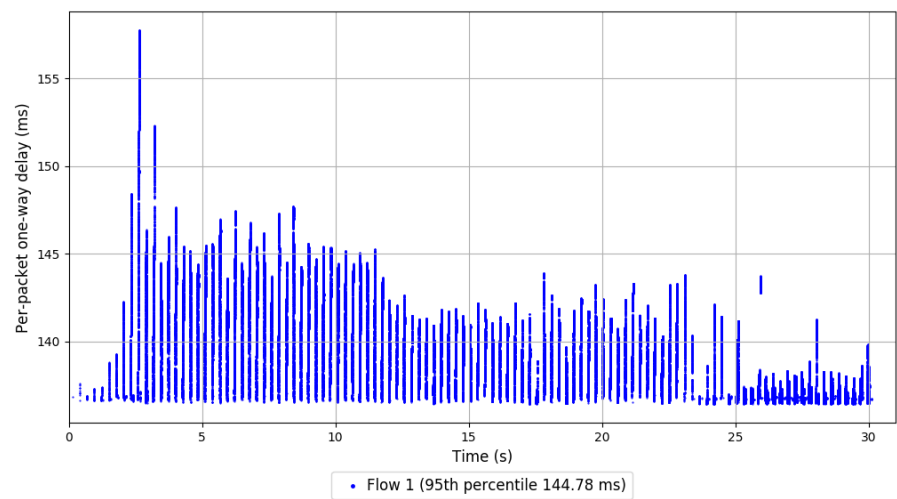
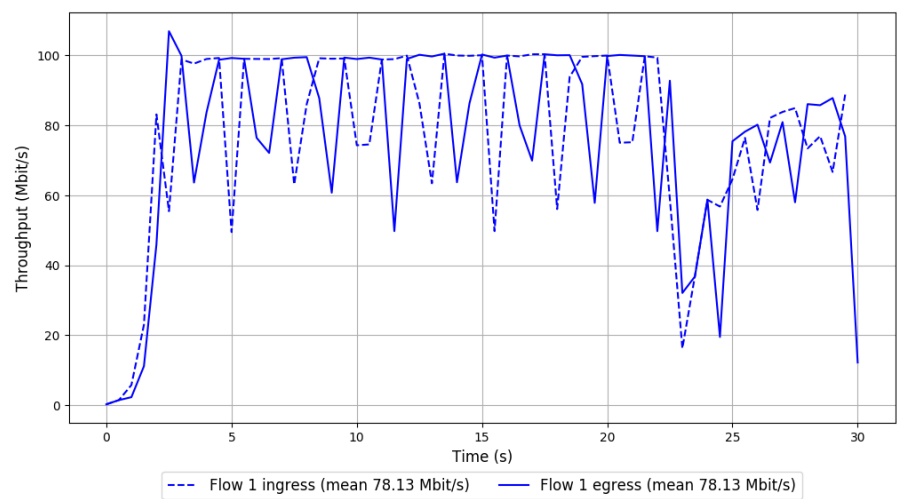
-- Flow 1:

Average throughput: 78.13 Mbit/s

95th percentile per-packet one-way delay: 144.779 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-03-21 00:30:58

End at: 2018-03-21 00:31:28

Below is generated by plot.py at 2018-03-21 04:02:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.86 Mbit/s

95th percentile per-packet one-way delay: 140.388 ms

Loss rate: 0.00%

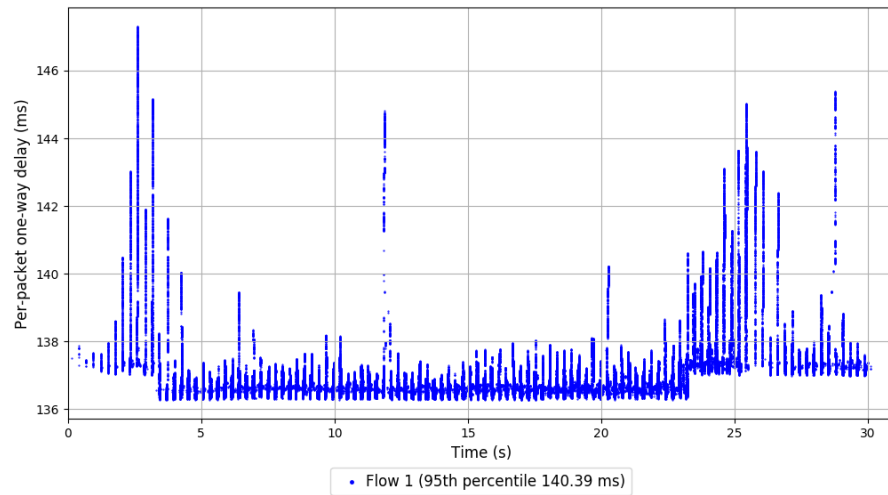
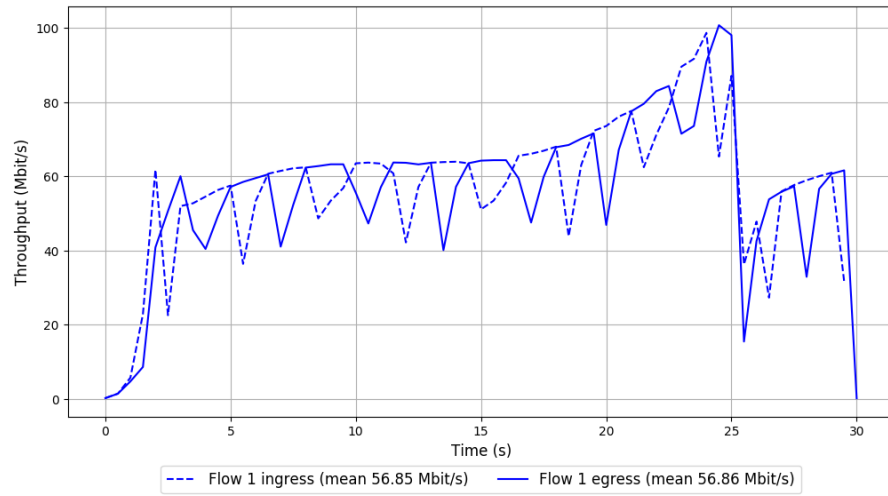
-- Flow 1:

Average throughput: 56.86 Mbit/s

95th percentile per-packet one-way delay: 140.388 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-03-21 00:46:49

End at: 2018-03-21 00:47:19

Below is generated by plot.py at 2018-03-21 04:02:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.14 Mbit/s

95th percentile per-packet one-way delay: 141.994 ms

Loss rate: 0.00%

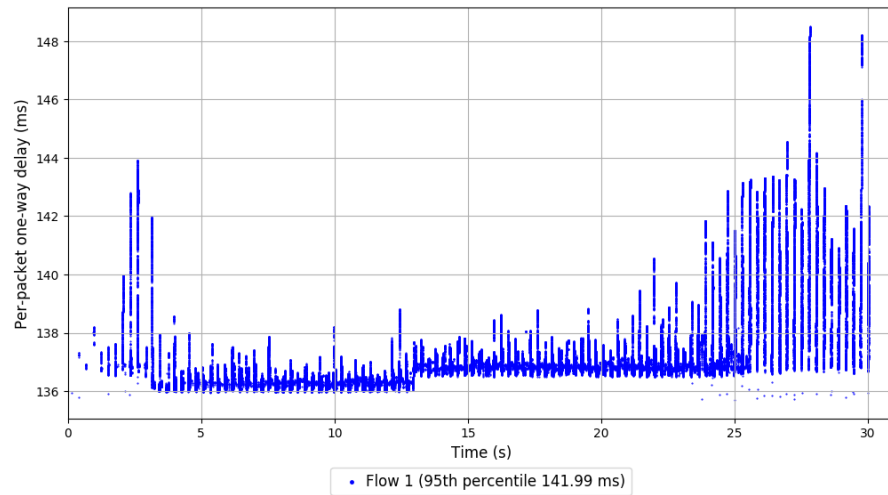
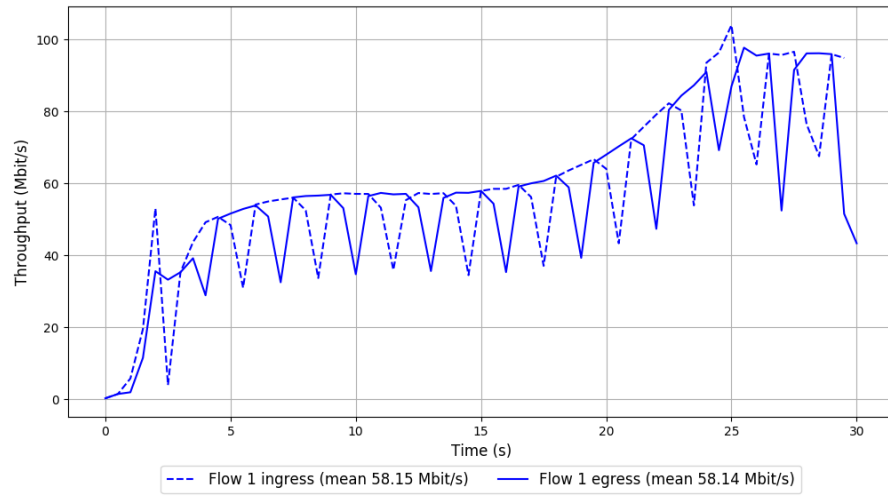
-- Flow 1:

Average throughput: 58.14 Mbit/s

95th percentile per-packet one-way delay: 141.994 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-03-21 01:03:05

End at: 2018-03-21 01:03:35

Below is generated by plot.py at 2018-03-21 04:02:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.74 Mbit/s

95th percentile per-packet one-way delay: 142.720 ms

Loss rate: 0.00%

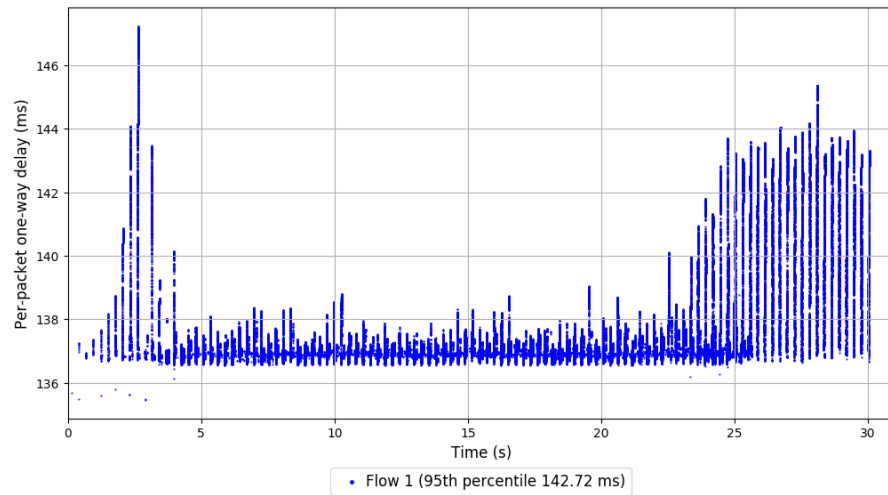
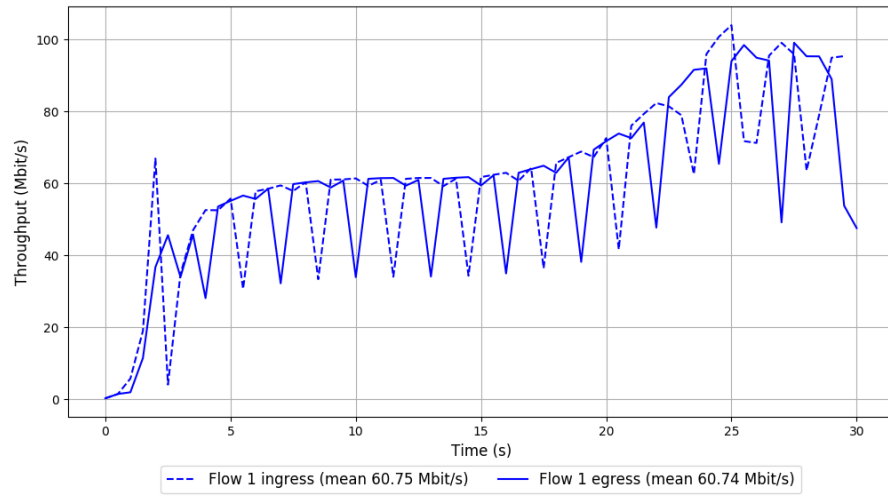
-- Flow 1:

Average throughput: 60.74 Mbit/s

95th percentile per-packet one-way delay: 142.720 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-03-21 01:19:17

End at: 2018-03-21 01:19:47

Below is generated by plot.py at 2018-03-21 04:02:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.96 Mbit/s

95th percentile per-packet one-way delay: 138.962 ms

Loss rate: 0.00%

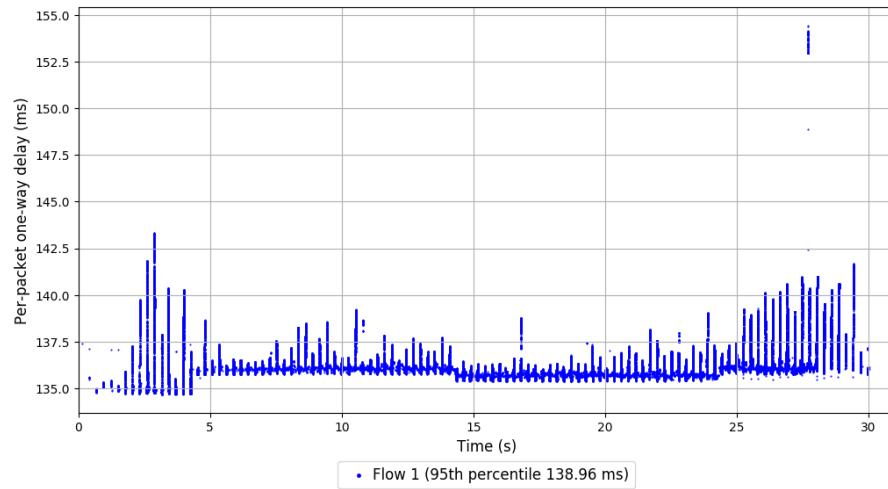
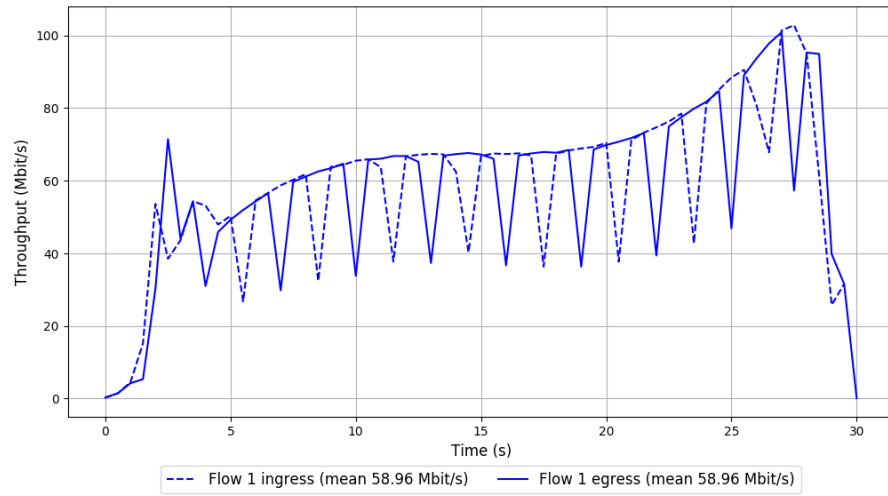
-- Flow 1:

Average throughput: 58.96 Mbit/s

95th percentile per-packet one-way delay: 138.962 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-03-21 01:35:13

End at: 2018-03-21 01:35:43

Below is generated by plot.py at 2018-03-21 04:02:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.86 Mbit/s

95th percentile per-packet one-way delay: 137.710 ms

Loss rate: 0.00%

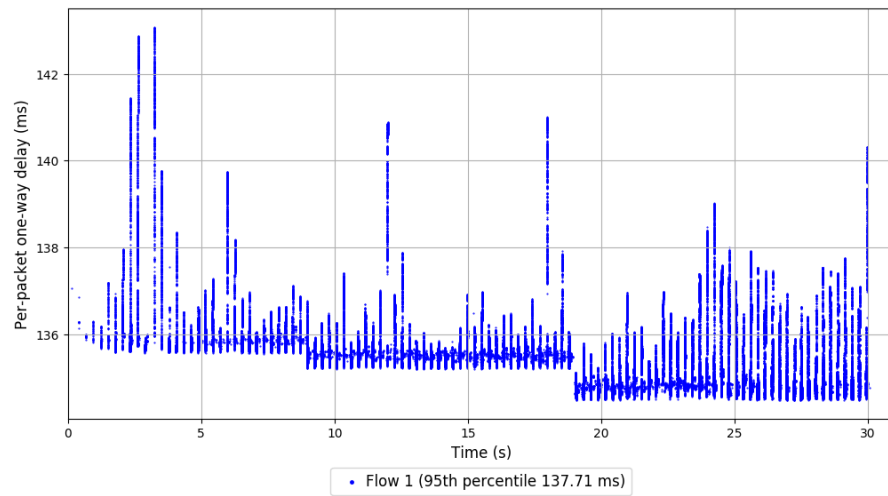
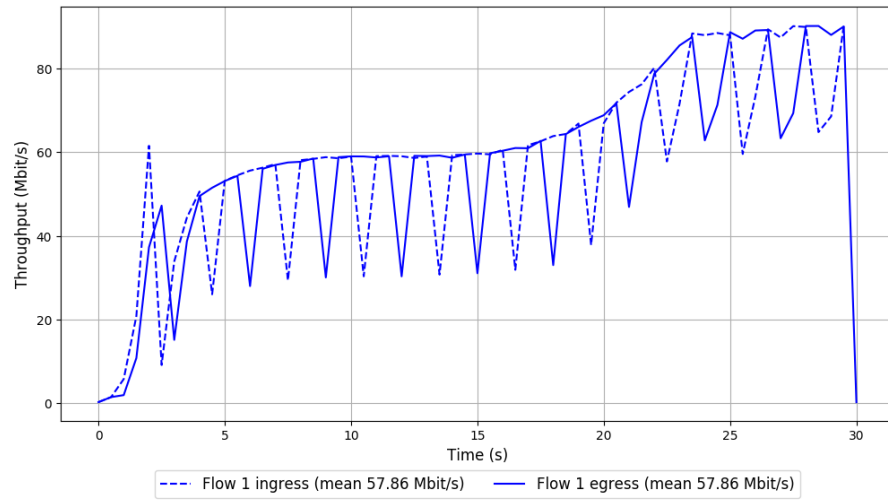
-- Flow 1:

Average throughput: 57.86 Mbit/s

95th percentile per-packet one-way delay: 137.710 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-03-21 01:51:29

End at: 2018-03-21 01:51:59

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.67 Mbit/s

95th percentile per-packet one-way delay: 143.352 ms

Loss rate: 0.00%

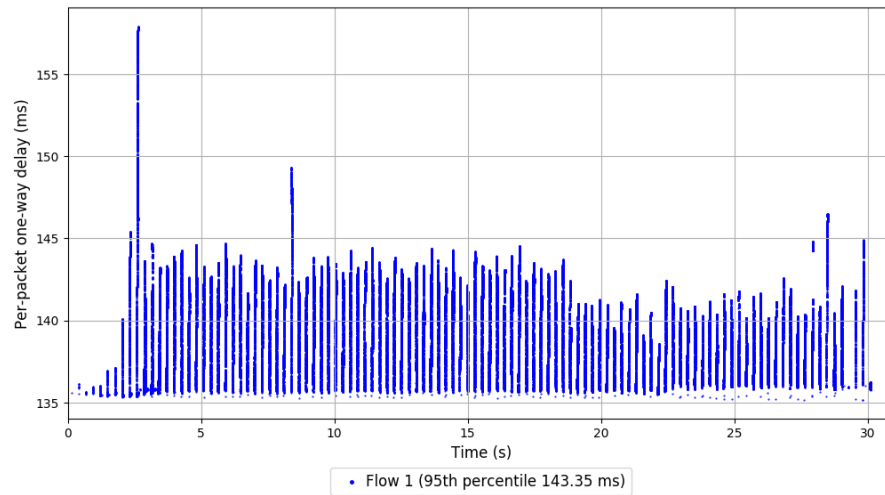
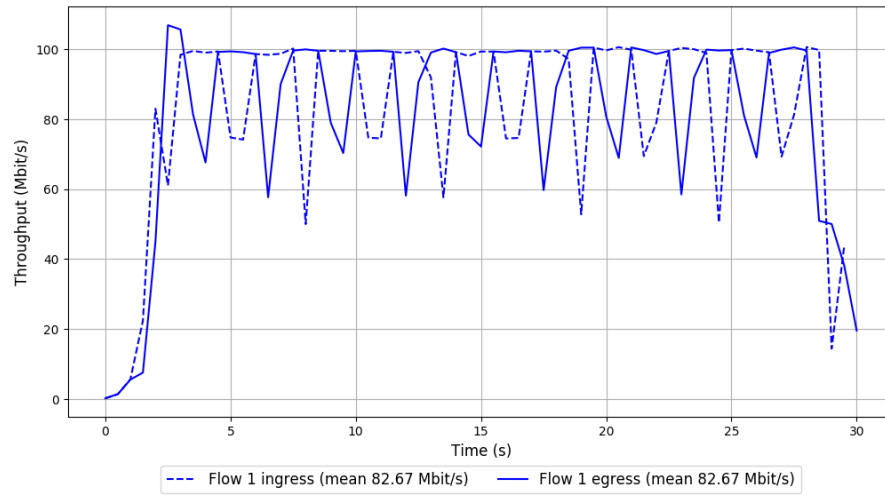
-- Flow 1:

Average throughput: 82.67 Mbit/s

95th percentile per-packet one-way delay: 143.352 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-03-21 02:07:23

End at: 2018-03-21 02:07:53

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.43 Mbit/s

95th percentile per-packet one-way delay: 140.019 ms

Loss rate: 0.00%

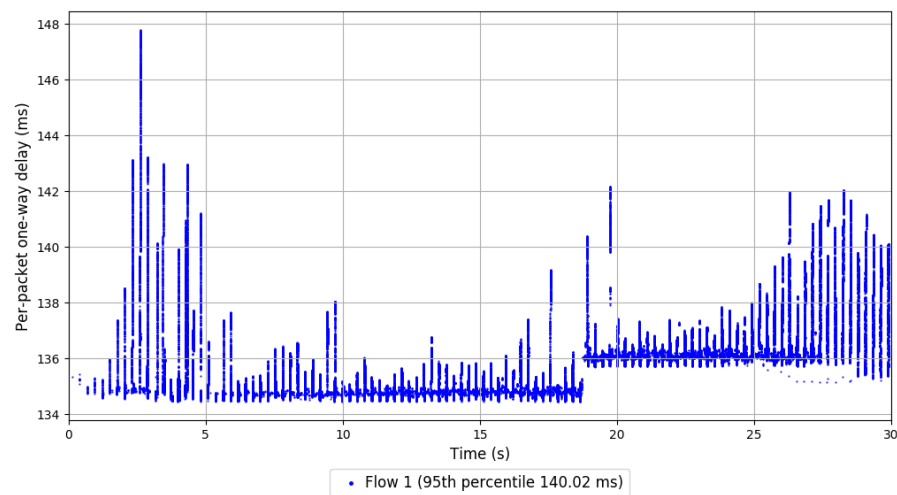
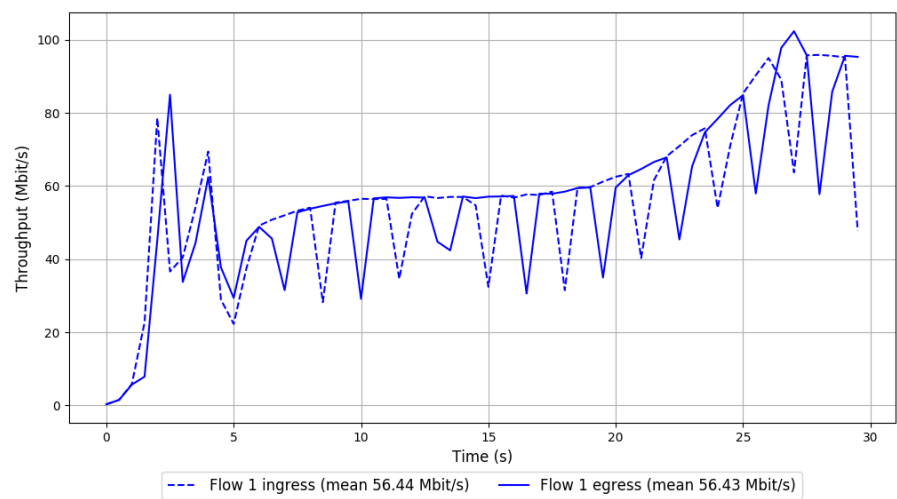
-- Flow 1:

Average throughput: 56.43 Mbit/s

95th percentile per-packet one-way delay: 140.019 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-03-21 02:23:16

End at: 2018-03-21 02:23:46

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.81 Mbit/s

95th percentile per-packet one-way delay: 142.992 ms

Loss rate: 0.00%

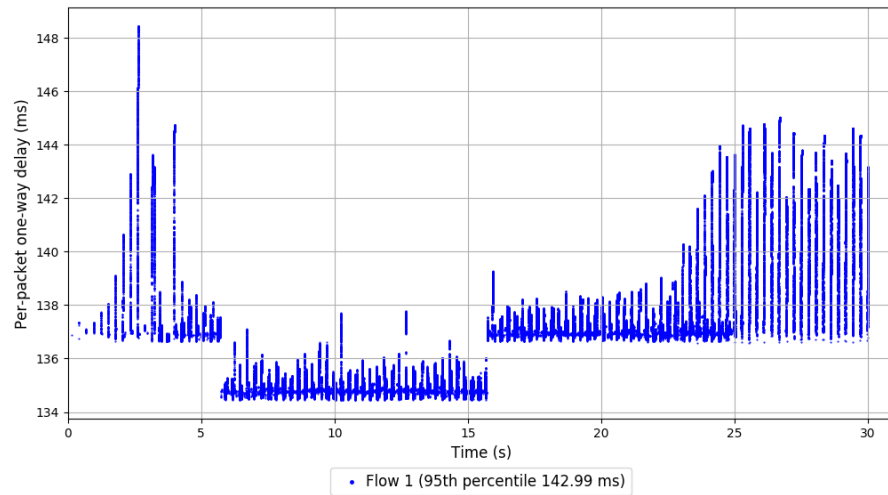
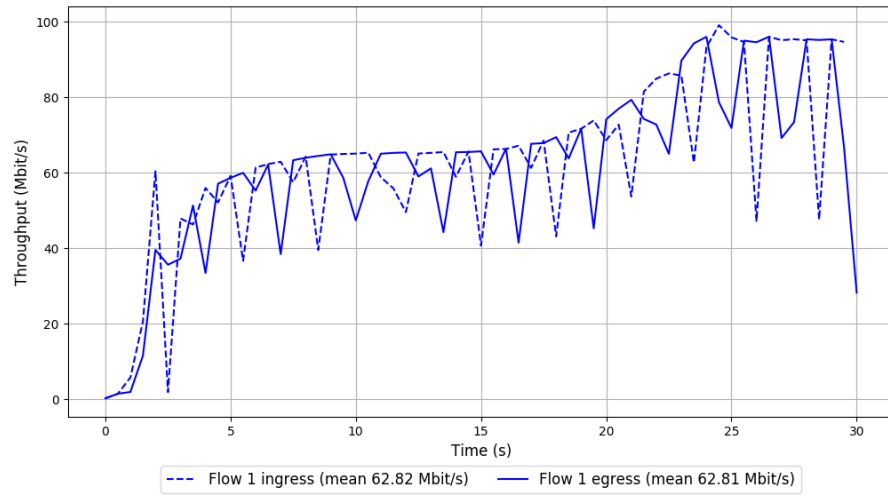
-- Flow 1:

Average throughput: 62.81 Mbit/s

95th percentile per-packet one-way delay: 142.992 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-03-21 02:39:31

End at: 2018-03-21 02:40:01

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.70 Mbit/s

95th percentile per-packet one-way delay: 141.772 ms

Loss rate: 0.00%

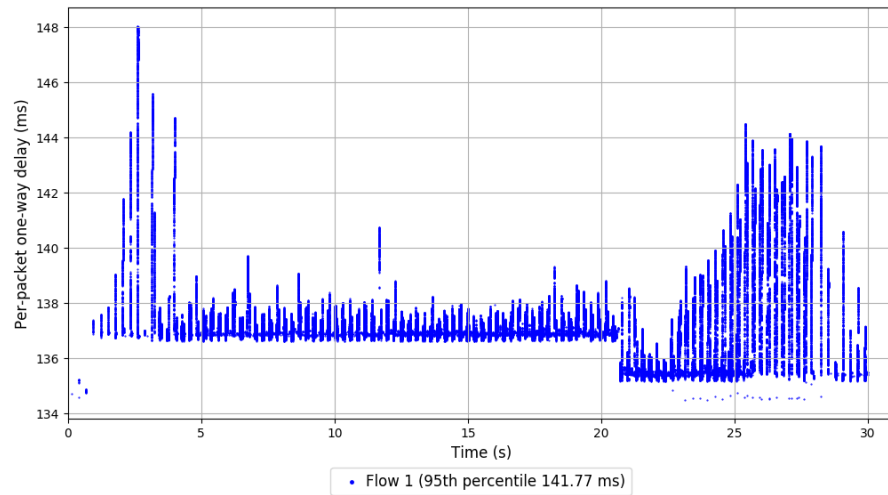
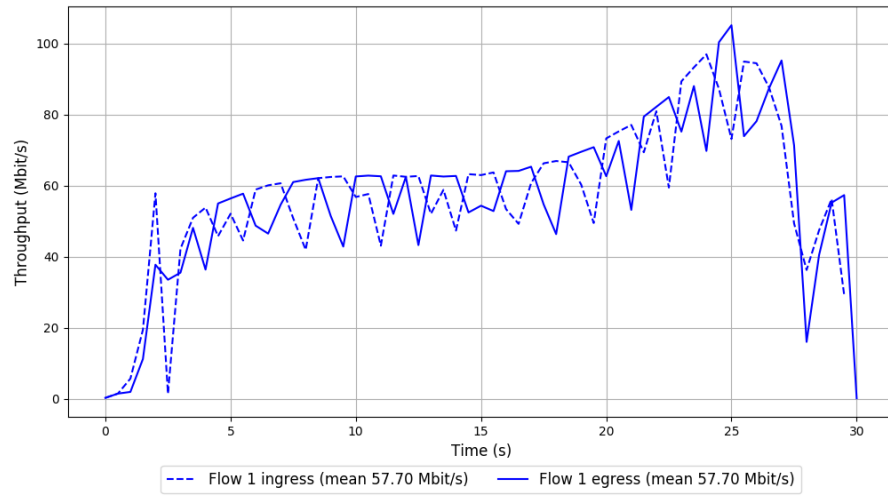
-- Flow 1:

Average throughput: 57.70 Mbit/s

95th percentile per-packet one-way delay: 141.772 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

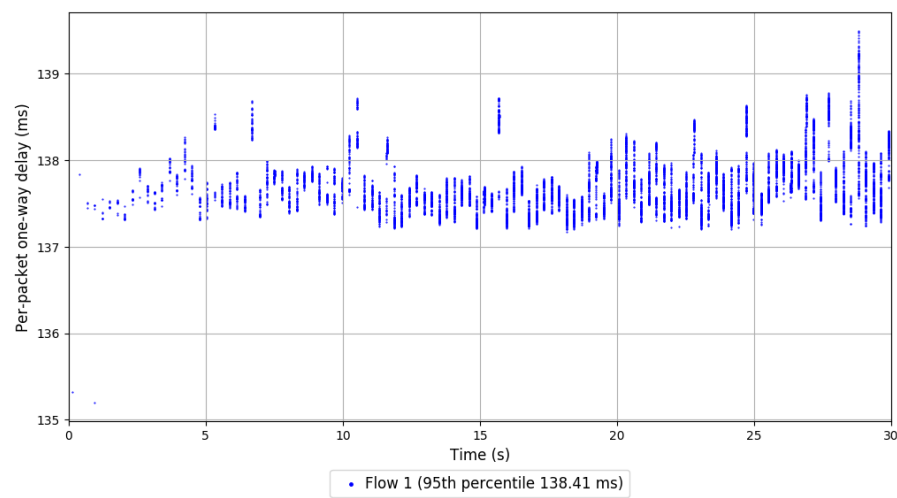
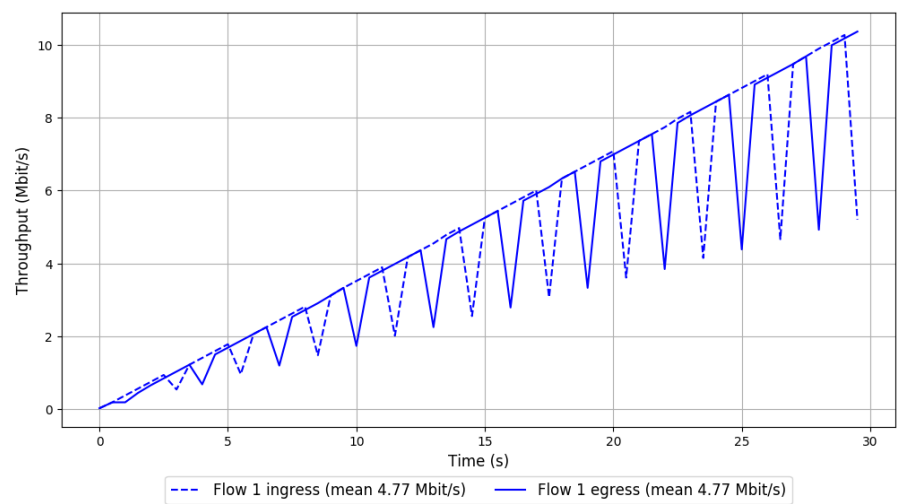


```
Run 1: Statistics of LEDBAT

Start at: 2018-03-21 00:02:09
End at: 2018-03-21 00:02:39

# Below is generated by plot.py at 2018-03-21 04:03:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.77 Mbit/s
95th percentile per-packet one-way delay: 138.415 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.77 Mbit/s
95th percentile per-packet one-way delay: 138.415 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

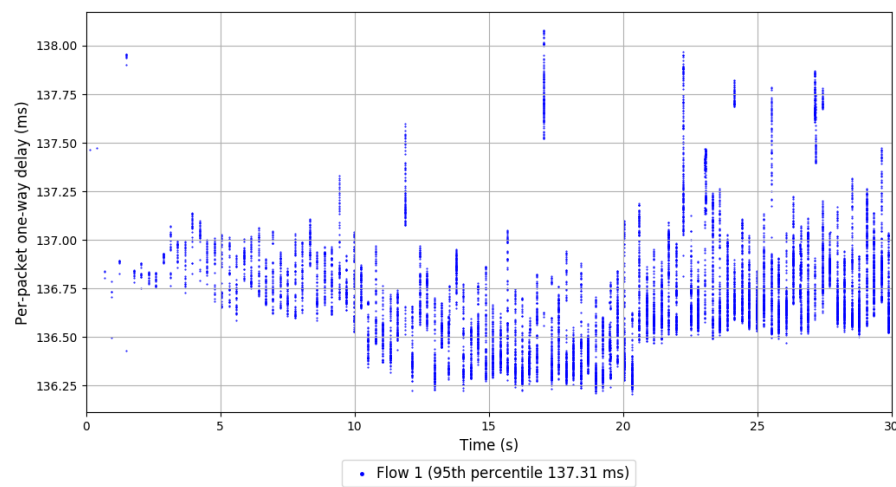
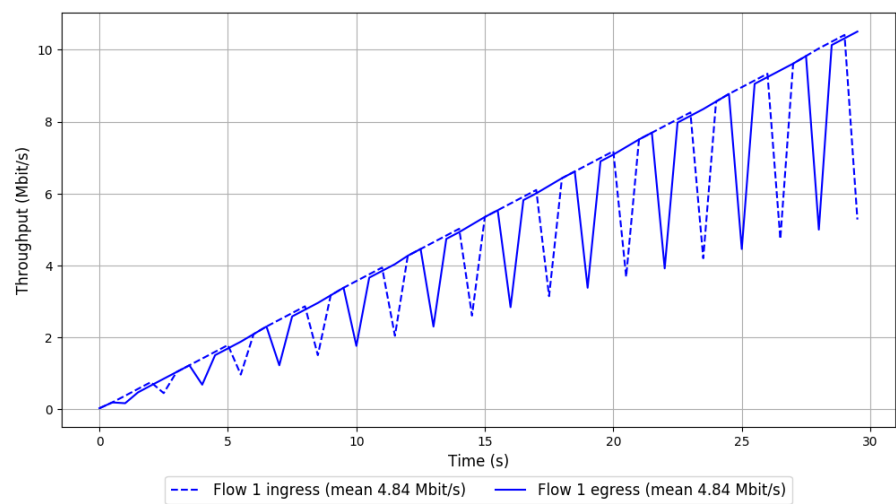


```
Run 2: Statistics of LEDBAT

Start at: 2018-03-21 00:18:11
End at: 2018-03-21 00:18:41

# Below is generated by plot.py at 2018-03-21 04:03:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.84 Mbit/s
95th percentile per-packet one-way delay: 137.308 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.84 Mbit/s
95th percentile per-packet one-way delay: 137.308 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-03-21 00:34:18

End at: 2018-03-21 00:34:48

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 138.415 ms

Loss rate: 0.00%

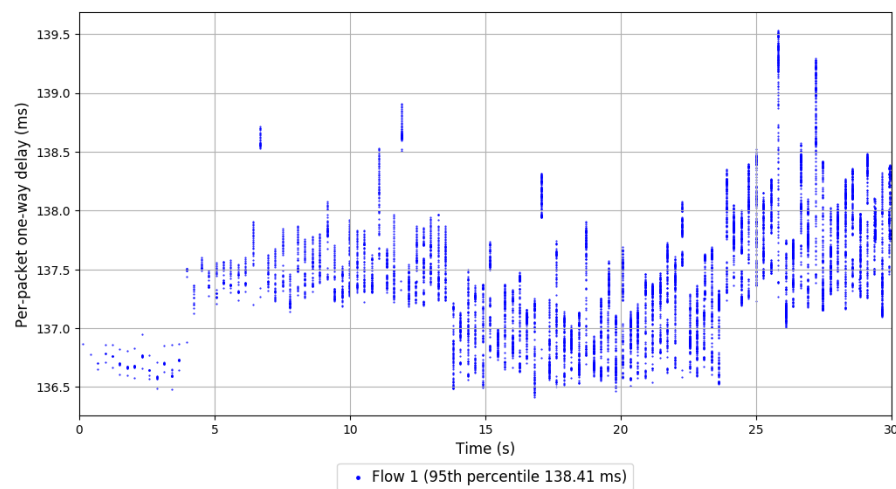
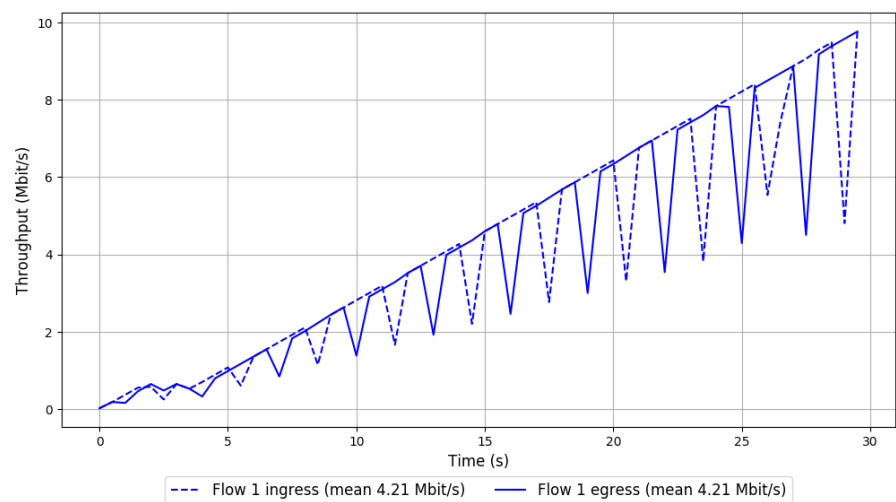
-- Flow 1:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 138.415 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-03-21 00:50:28

End at: 2018-03-21 00:50:58

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 136.376 ms

Loss rate: 0.00%

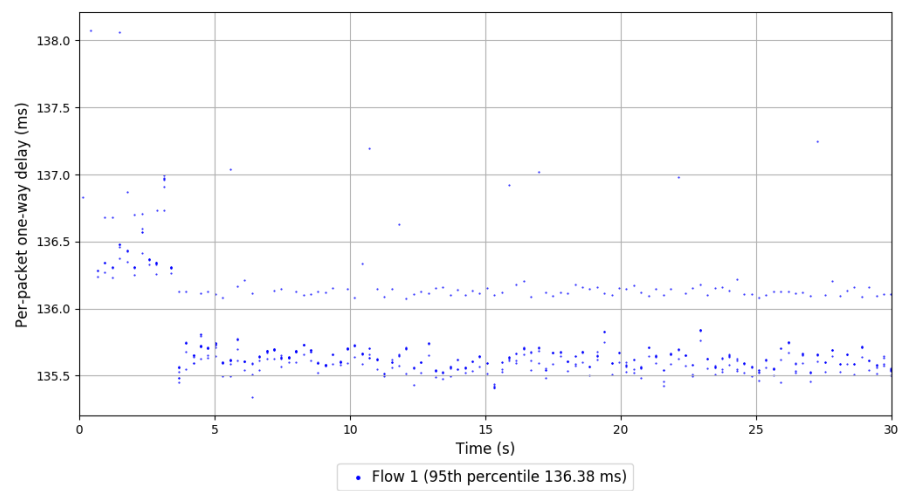
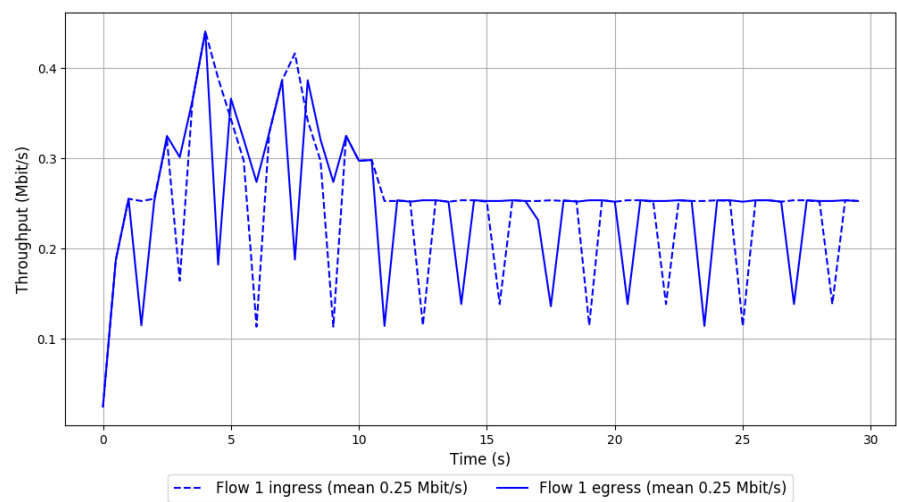
-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 136.376 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-03-21 01:06:40

End at: 2018-03-21 01:07:10

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.84 Mbit/s

95th percentile per-packet one-way delay: 137.056 ms

Loss rate: 0.00%

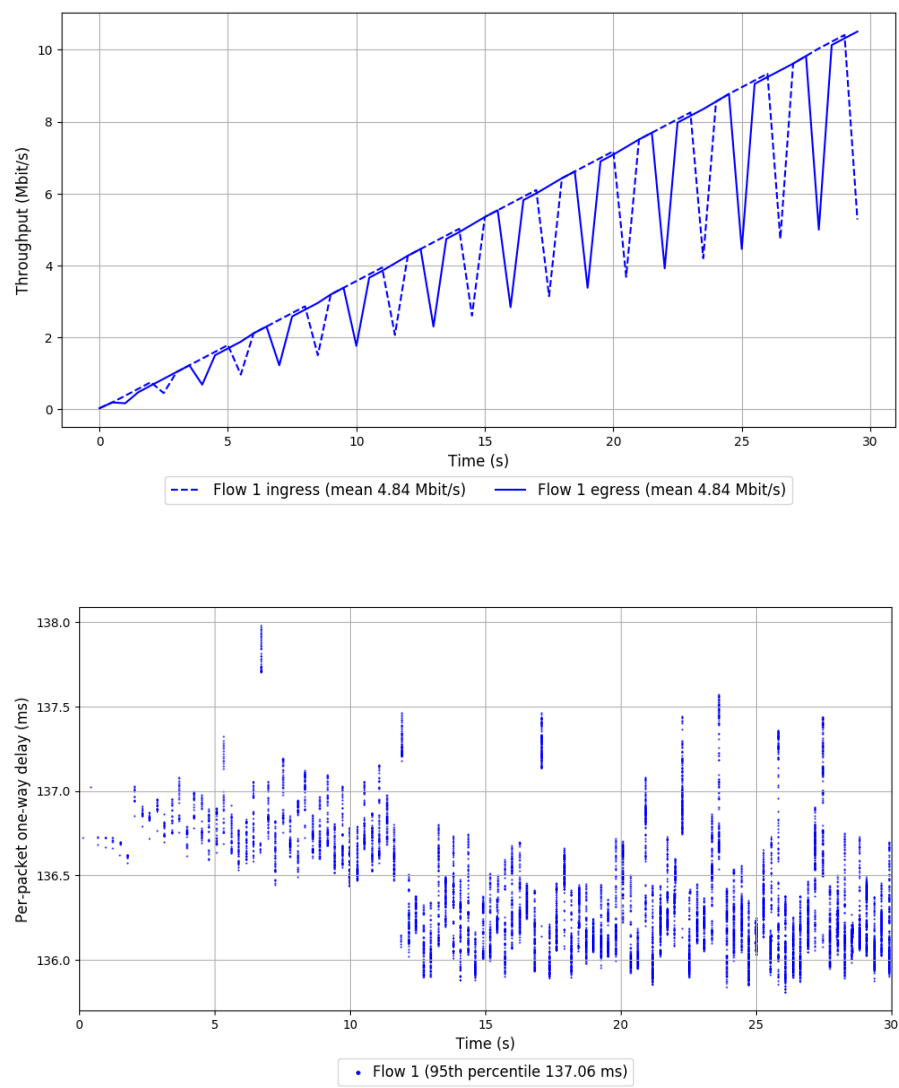
-- Flow 1:

Average throughput: 4.84 Mbit/s

95th percentile per-packet one-way delay: 137.056 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-03-21 01:22:34

End at: 2018-03-21 01:23:04

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.99 Mbit/s

95th percentile per-packet one-way delay: 136.608 ms

Loss rate: 0.00%

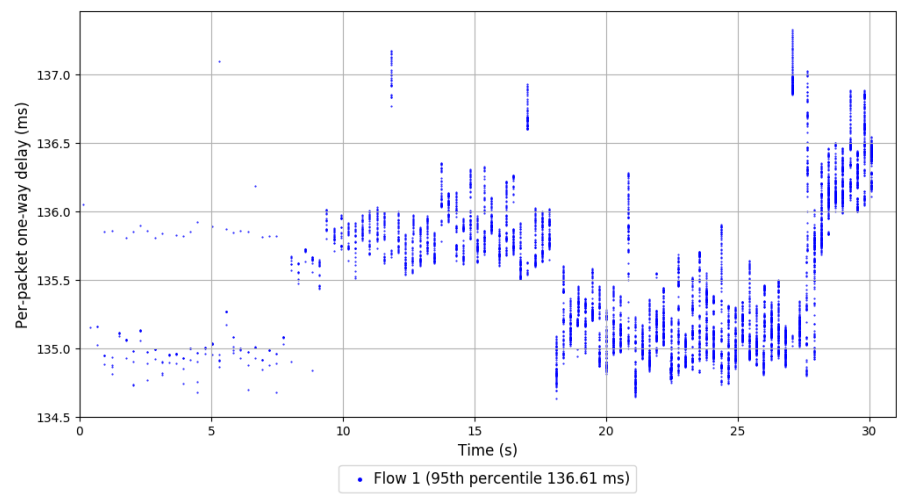
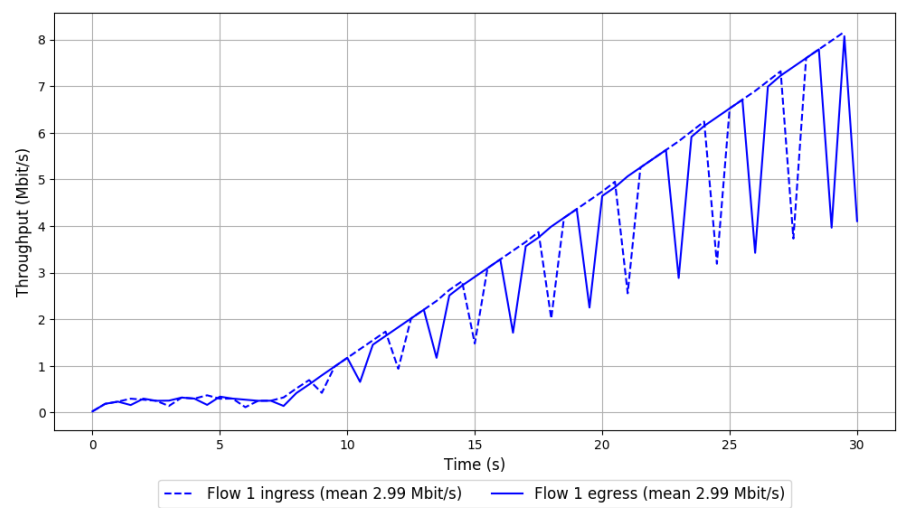
-- Flow 1:

Average throughput: 2.99 Mbit/s

95th percentile per-packet one-way delay: 136.608 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-03-21 01:38:52

End at: 2018-03-21 01:39:22

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.65 Mbit/s

95th percentile per-packet one-way delay: 136.853 ms

Loss rate: 0.00%

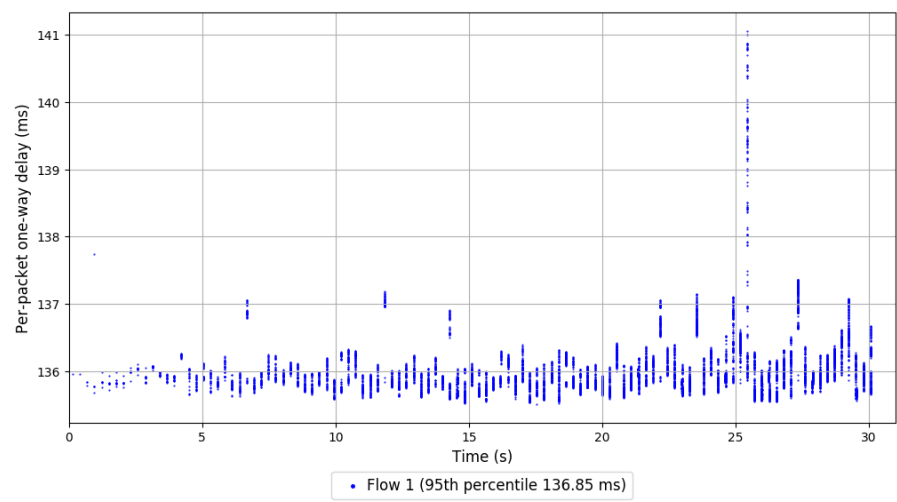
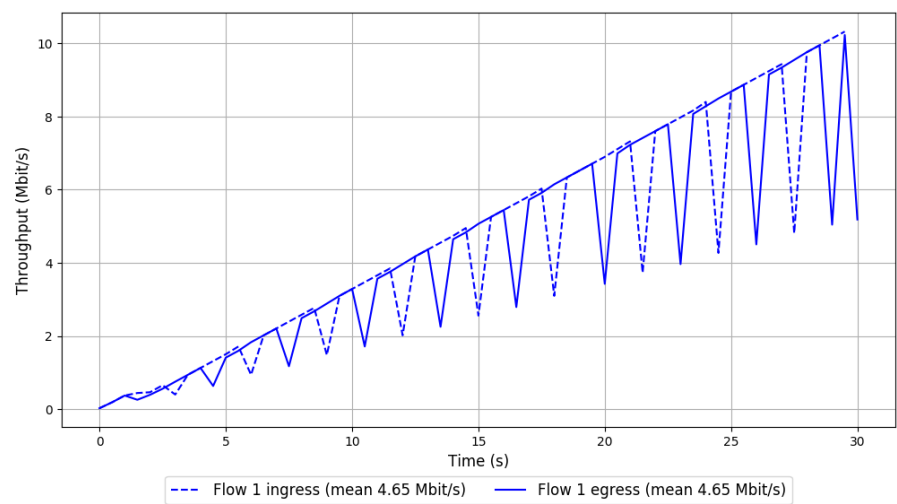
-- Flow 1:

Average throughput: 4.65 Mbit/s

95th percentile per-packet one-way delay: 136.853 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-03-21 01:54:47

End at: 2018-03-21 01:55:17

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.73 Mbit/s

95th percentile per-packet one-way delay: 136.612 ms

Loss rate: 0.00%

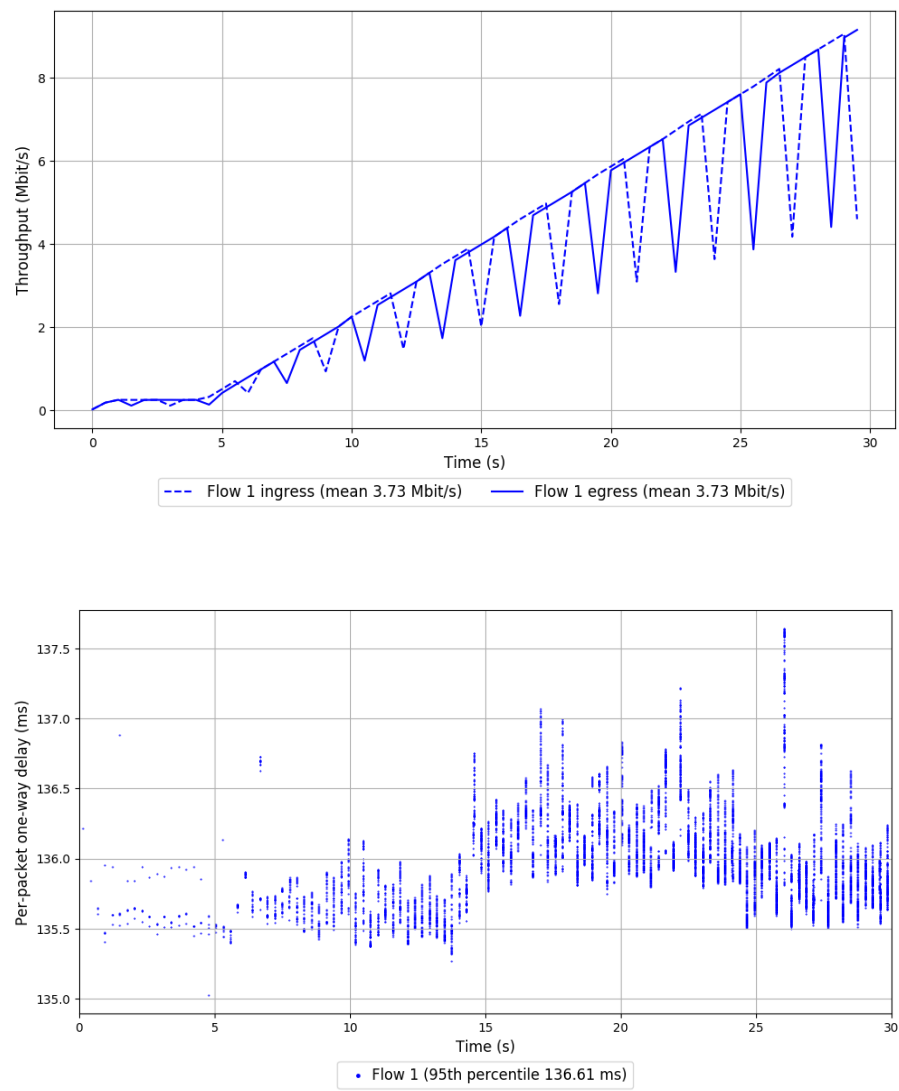
-- Flow 1:

Average throughput: 3.73 Mbit/s

95th percentile per-packet one-way delay: 136.612 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-03-21 02:10:39

End at: 2018-03-21 02:11:09

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.42 Mbit/s

95th percentile per-packet one-way delay: 136.575 ms

Loss rate: 0.00%

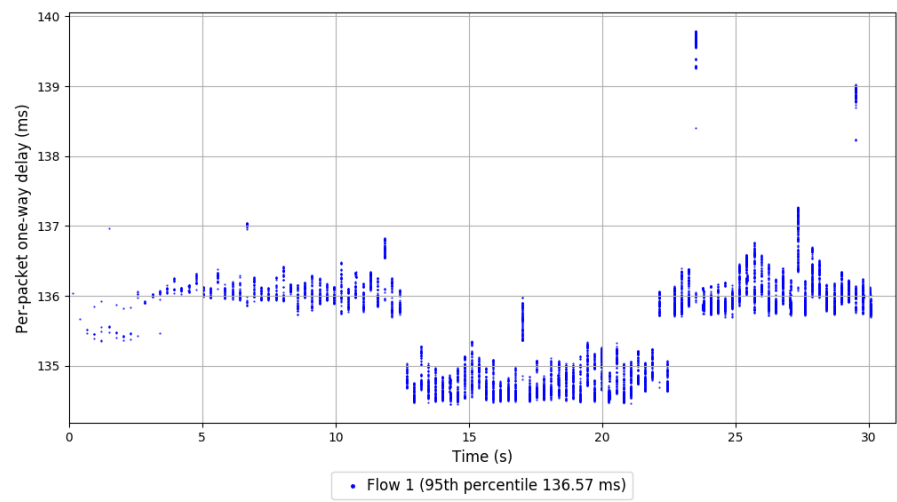
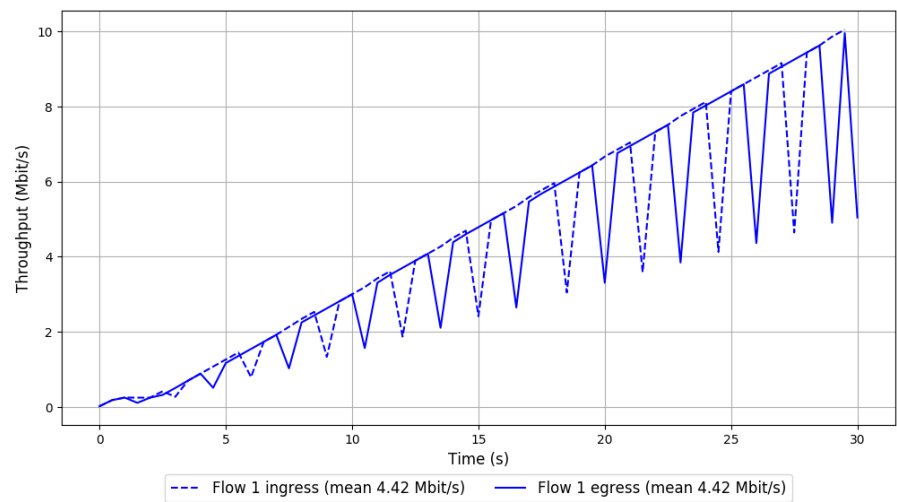
-- Flow 1:

Average throughput: 4.42 Mbit/s

95th percentile per-packet one-way delay: 136.575 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-03-21 02:26:53

End at: 2018-03-21 02:27:23

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.80 Mbit/s

95th percentile per-packet one-way delay: 135.784 ms

Loss rate: 0.00%

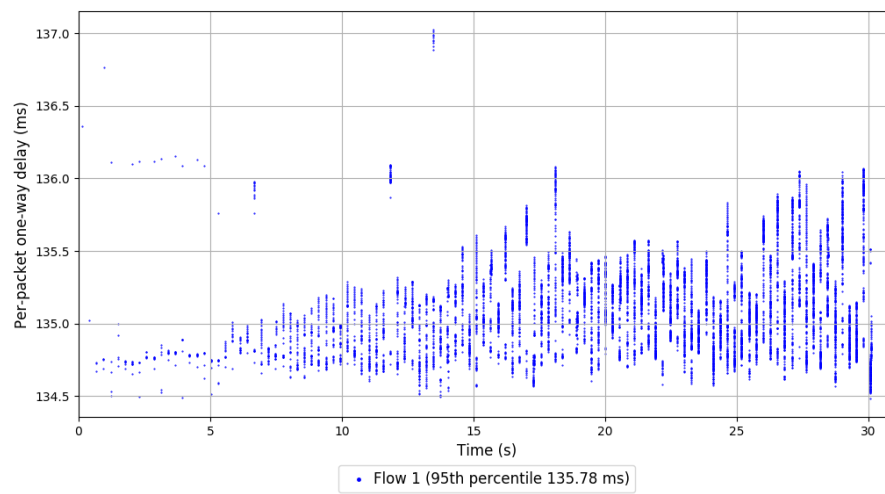
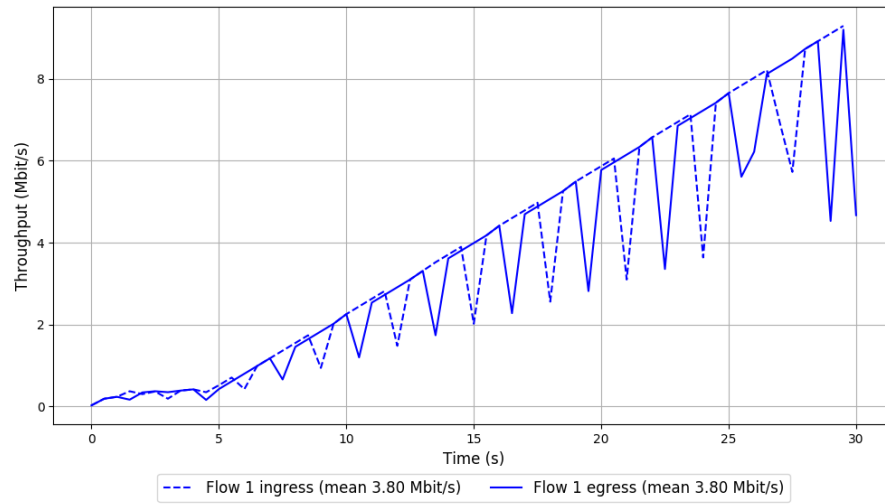
-- Flow 1:

Average throughput: 3.80 Mbit/s

95th percentile per-packet one-way delay: 135.784 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

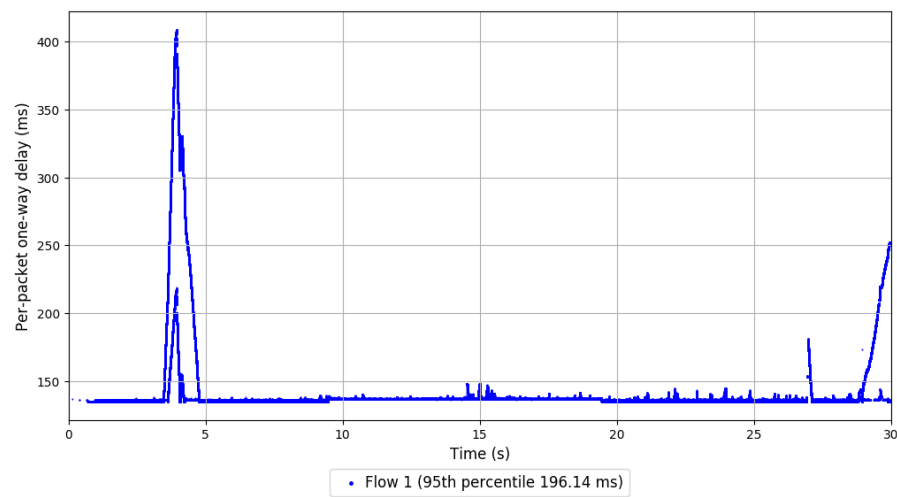
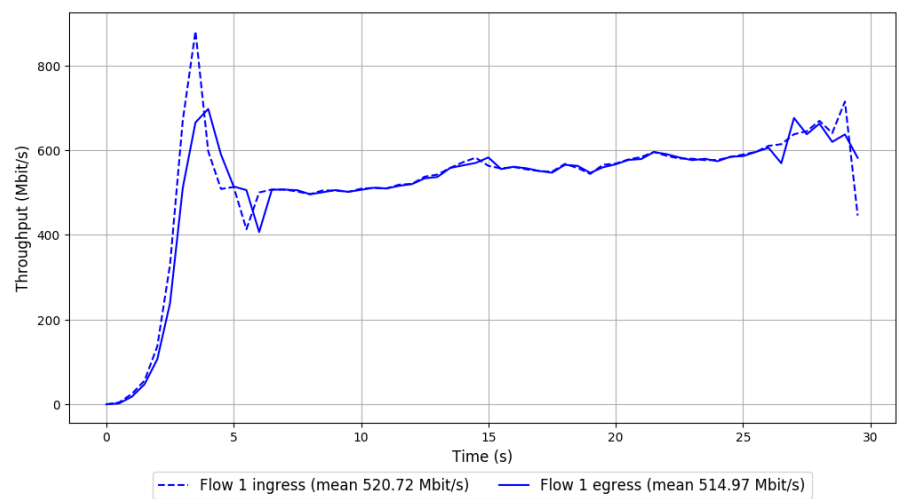


```
Run 1: Statistics of PCC

Start at: 2018-03-21 00:02:52
End at: 2018-03-21 00:03:22

# Below is generated by plot.py at 2018-03-21 04:11:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 514.97 Mbit/s
95th percentile per-packet one-way delay: 196.136 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 514.97 Mbit/s
95th percentile per-packet one-way delay: 196.136 ms
Loss rate: 1.10%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-03-21 00:18:54

End at: 2018-03-21 00:19:24

Below is generated by plot.py at 2018-03-21 04:11:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 561.01 Mbit/s

95th percentile per-packet one-way delay: 142.722 ms

Loss rate: 0.80%

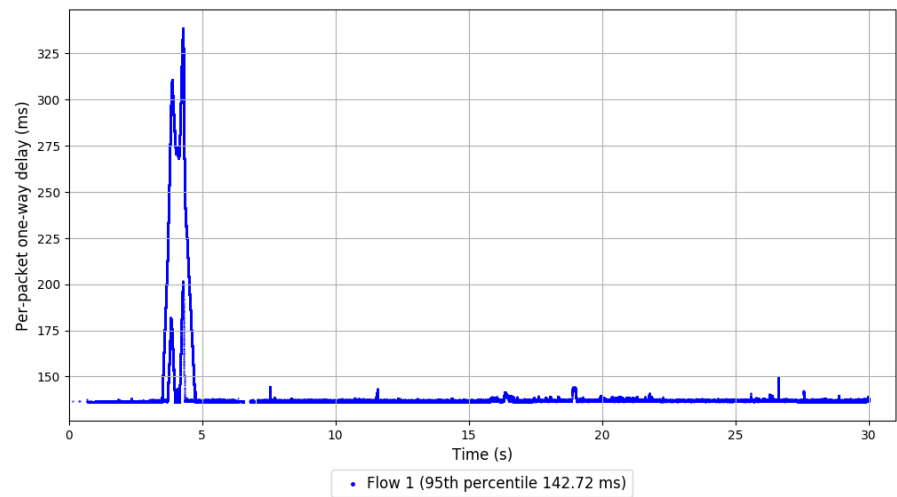
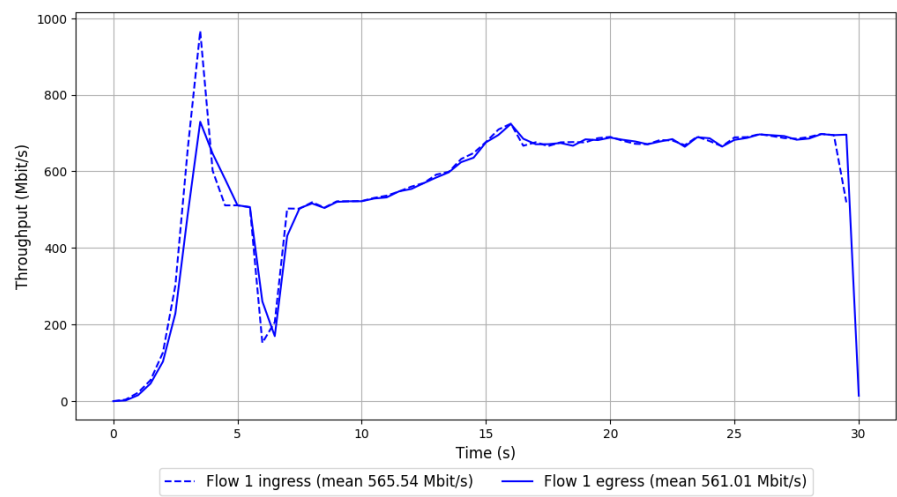
-- Flow 1:

Average throughput: 561.01 Mbit/s

95th percentile per-packet one-way delay: 142.722 ms

Loss rate: 0.80%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-03-21 00:35:01

End at: 2018-03-21 00:35:31

Below is generated by plot.py at 2018-03-21 04:11:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 549.45 Mbit/s

95th percentile per-packet one-way delay: 161.971 ms

Loss rate: 0.97%

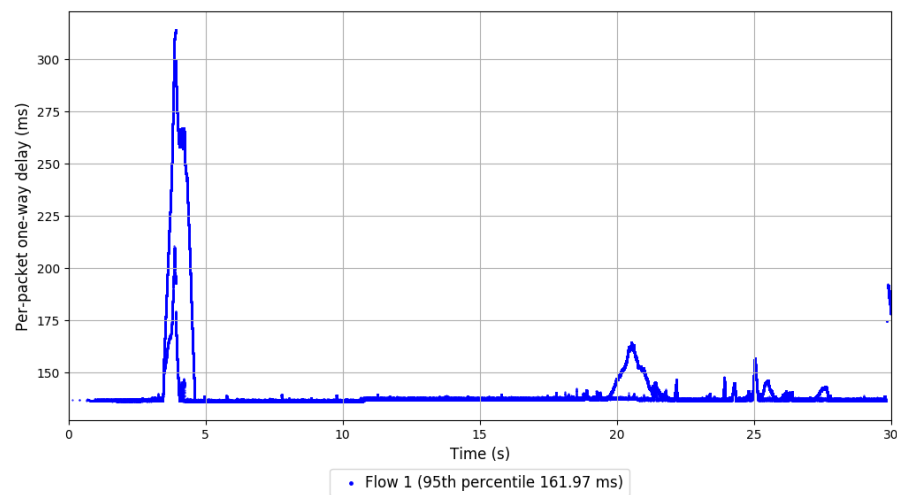
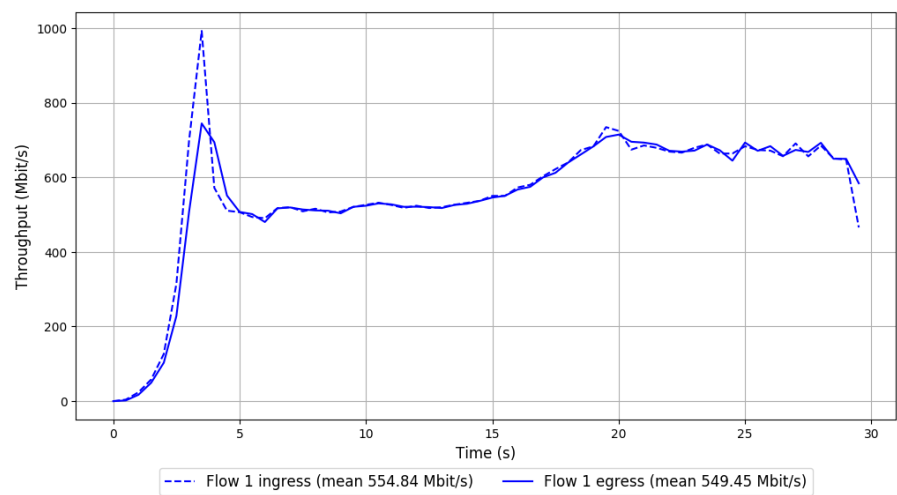
-- Flow 1:

Average throughput: 549.45 Mbit/s

95th percentile per-packet one-way delay: 161.971 ms

Loss rate: 0.97%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-03-21 00:51:10

End at: 2018-03-21 00:51:40

Below is generated by plot.py at 2018-03-21 04:12:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 591.74 Mbit/s

95th percentile per-packet one-way delay: 184.568 ms

Loss rate: 0.94%

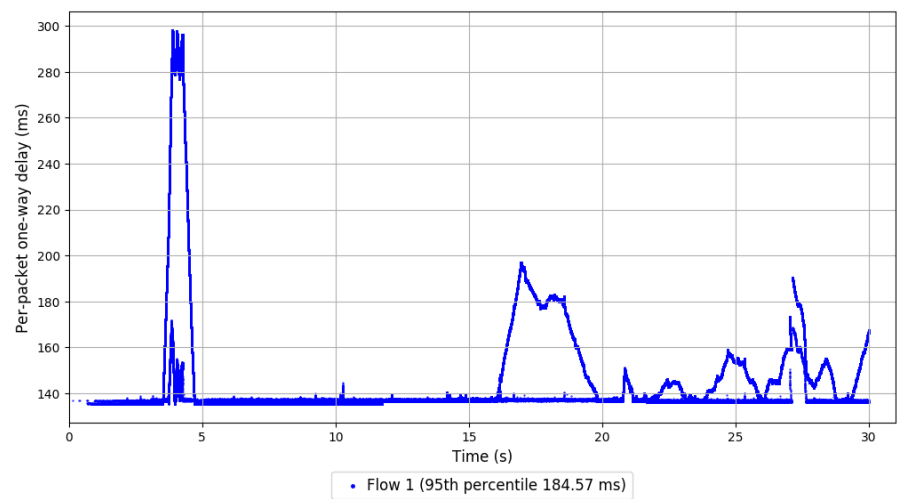
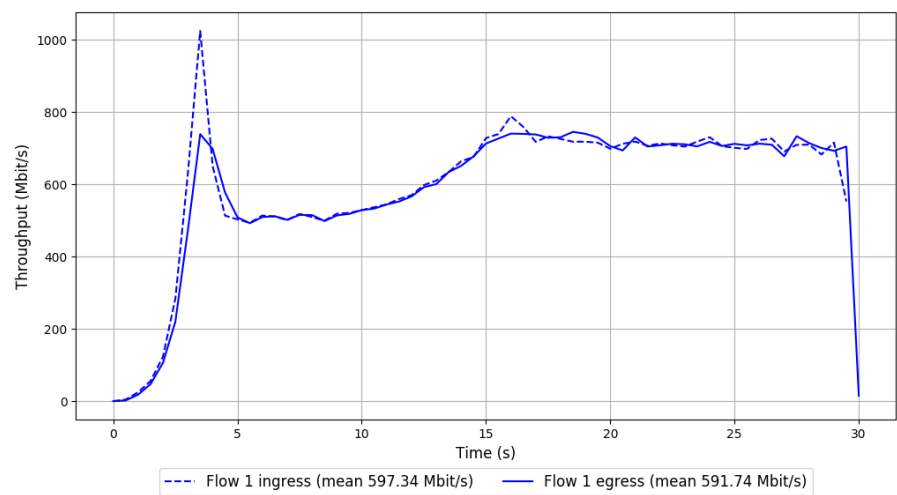
-- Flow 1:

Average throughput: 591.74 Mbit/s

95th percentile per-packet one-way delay: 184.568 ms

Loss rate: 0.94%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-03-21 01:07:23

End at: 2018-03-21 01:07:53

Below is generated by plot.py at 2018-03-21 04:12:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 581.35 Mbit/s

95th percentile per-packet one-way delay: 245.806 ms

Loss rate: 1.84%

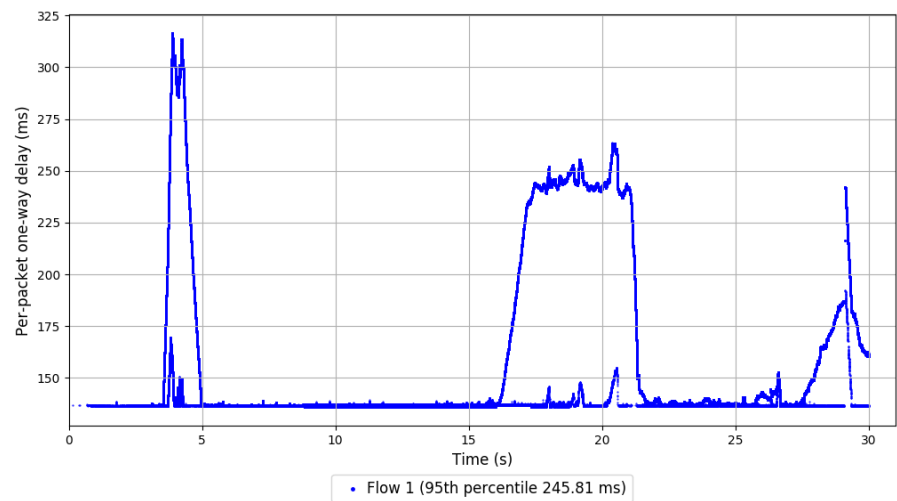
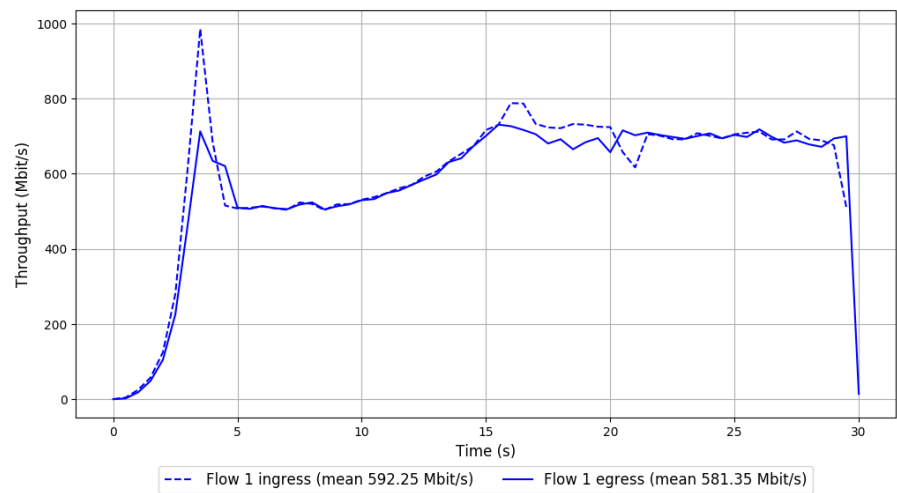
-- Flow 1:

Average throughput: 581.35 Mbit/s

95th percentile per-packet one-way delay: 245.806 ms

Loss rate: 1.84%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-03-21 01:23:16

End at: 2018-03-21 01:23:46

Below is generated by plot.py at 2018-03-21 04:12:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 559.30 Mbit/s

95th percentile per-packet one-way delay: 170.715 ms

Loss rate: 0.94%

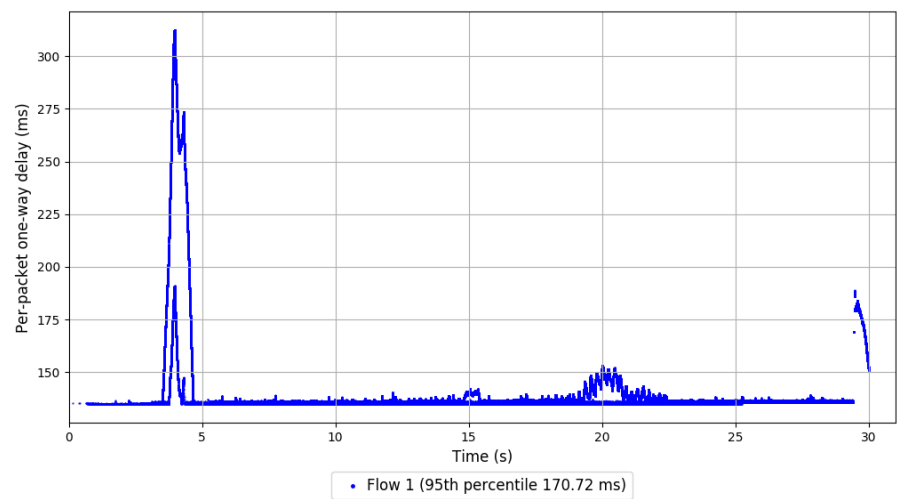
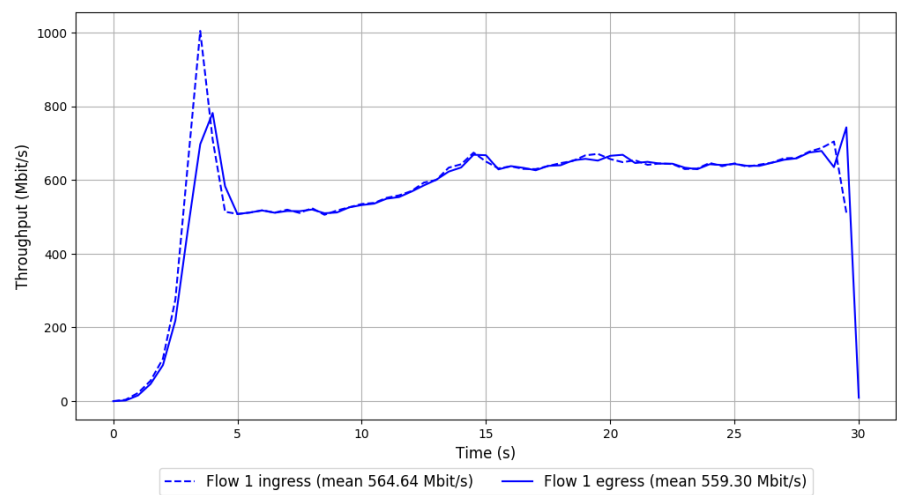
-- Flow 1:

Average throughput: 559.30 Mbit/s

95th percentile per-packet one-way delay: 170.715 ms

Loss rate: 0.94%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-03-21 01:39:35

End at: 2018-03-21 01:40:05

Below is generated by plot.py at 2018-03-21 04:12:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 501.96 Mbit/s

95th percentile per-packet one-way delay: 249.666 ms

Loss rate: 1.71%

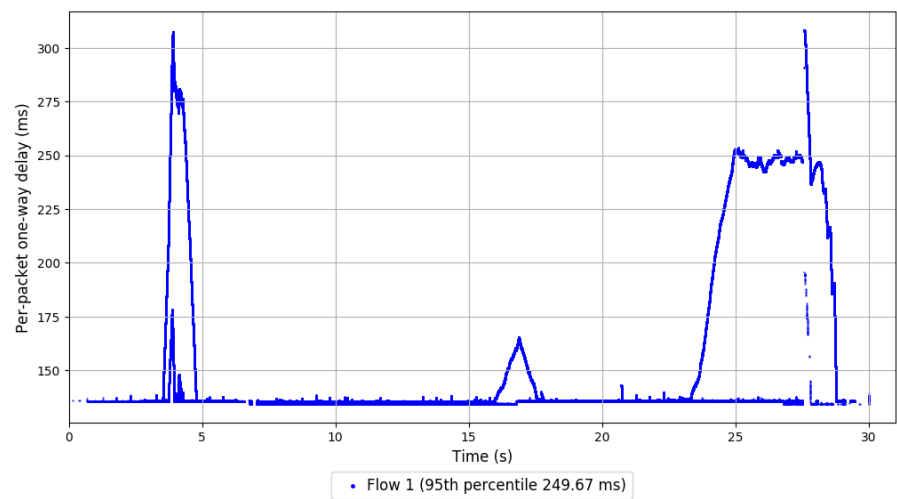
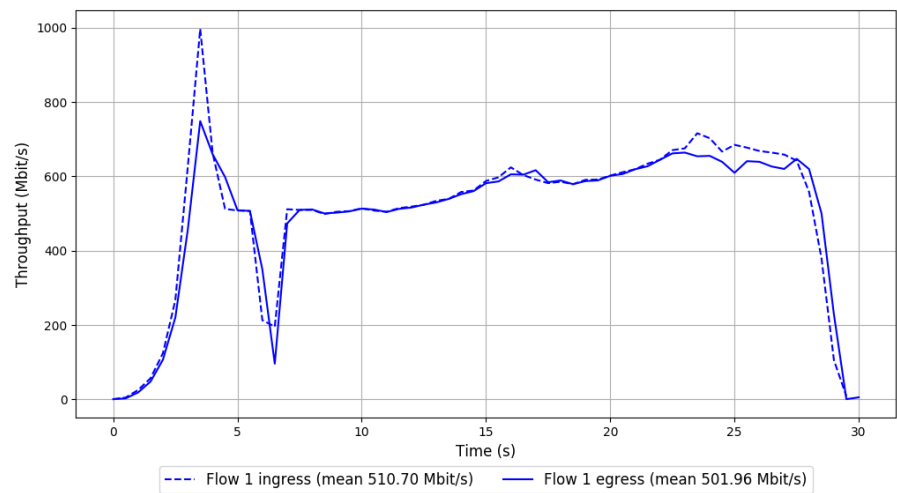
-- Flow 1:

Average throughput: 501.96 Mbit/s

95th percentile per-packet one-way delay: 249.666 ms

Loss rate: 1.71%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-03-21 01:55:30

End at: 2018-03-21 01:56:00

Below is generated by plot.py at 2018-03-21 04:12:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 567.03 Mbit/s

95th percentile per-packet one-way delay: 144.490 ms

Loss rate: 0.76%

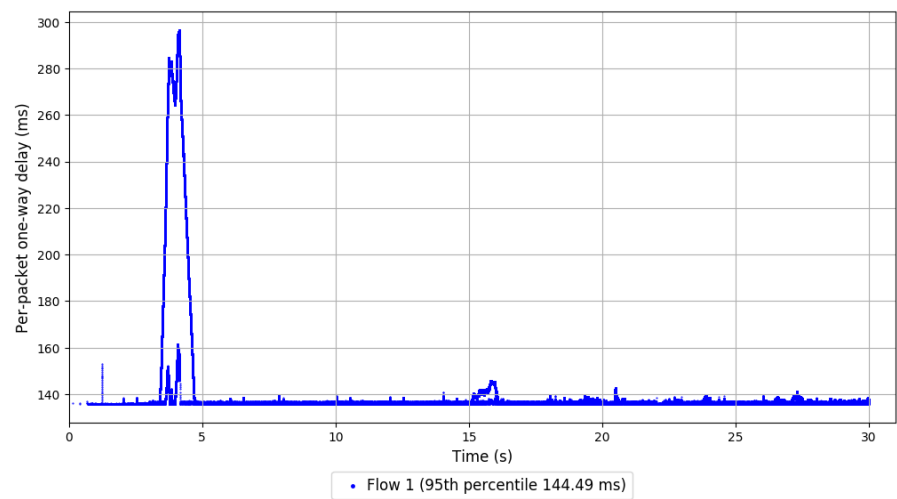
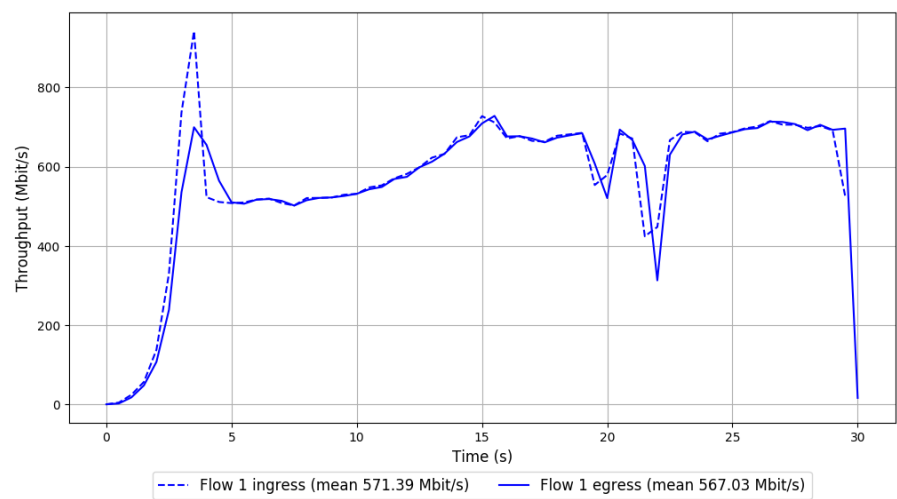
-- Flow 1:

Average throughput: 567.03 Mbit/s

95th percentile per-packet one-way delay: 144.490 ms

Loss rate: 0.76%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-03-21 02:11:22

End at: 2018-03-21 02:11:52

Below is generated by plot.py at 2018-03-21 04:21:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 576.19 Mbit/s

95th percentile per-packet one-way delay: 157.282 ms

Loss rate: 0.76%

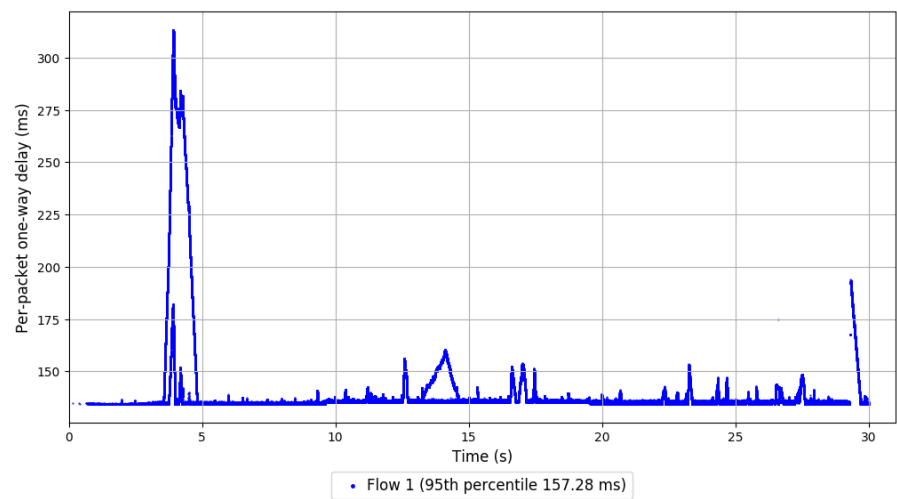
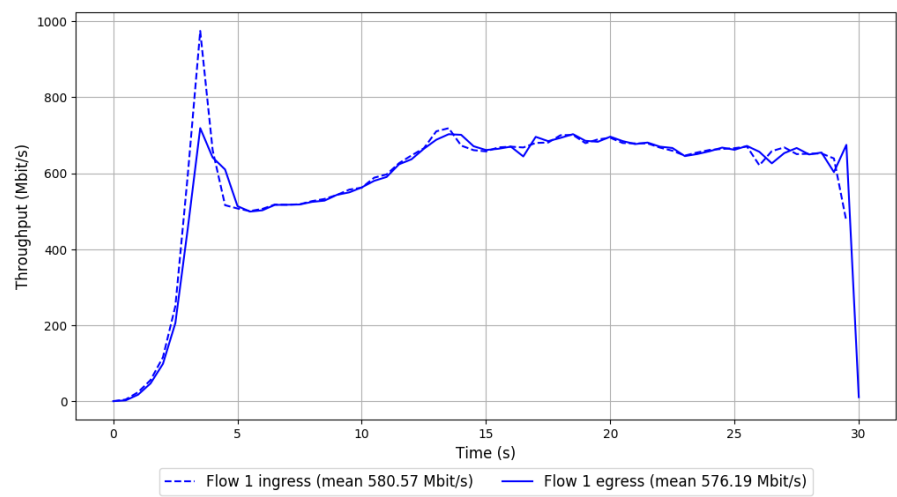
-- Flow 1:

Average throughput: 576.19 Mbit/s

95th percentile per-packet one-way delay: 157.282 ms

Loss rate: 0.76%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-03-21 02:27:36

End at: 2018-03-21 02:28:06

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 585.21 Mbit/s

95th percentile per-packet one-way delay: 176.721 ms

Loss rate: 0.46%

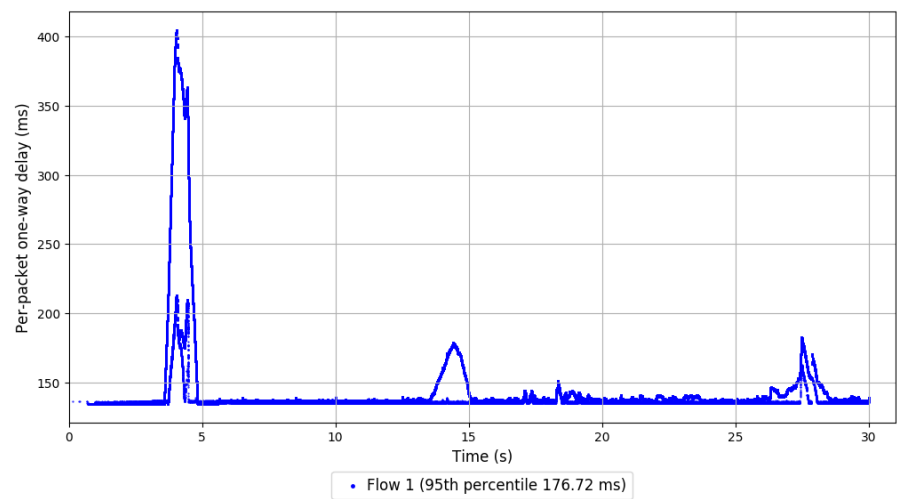
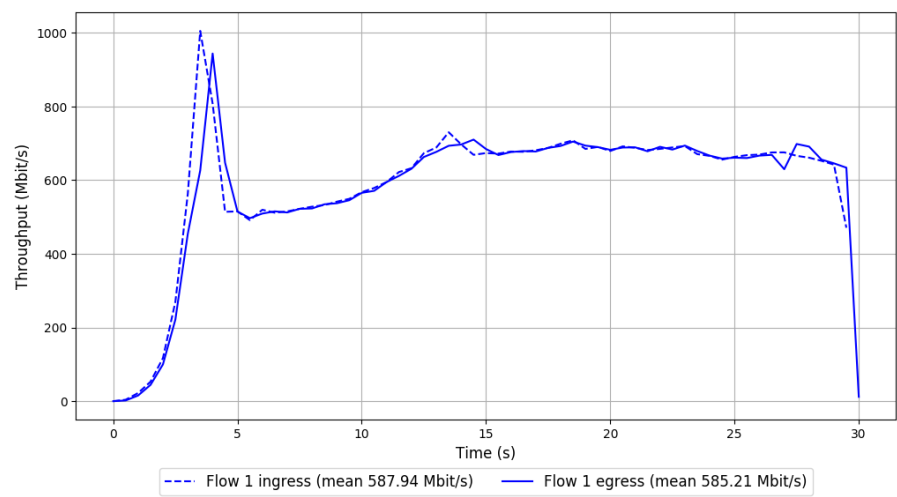
-- Flow 1:

Average throughput: 585.21 Mbit/s

95th percentile per-packet one-way delay: 176.721 ms

Loss rate: 0.46%

Run 10: Report of PCC — Data Link

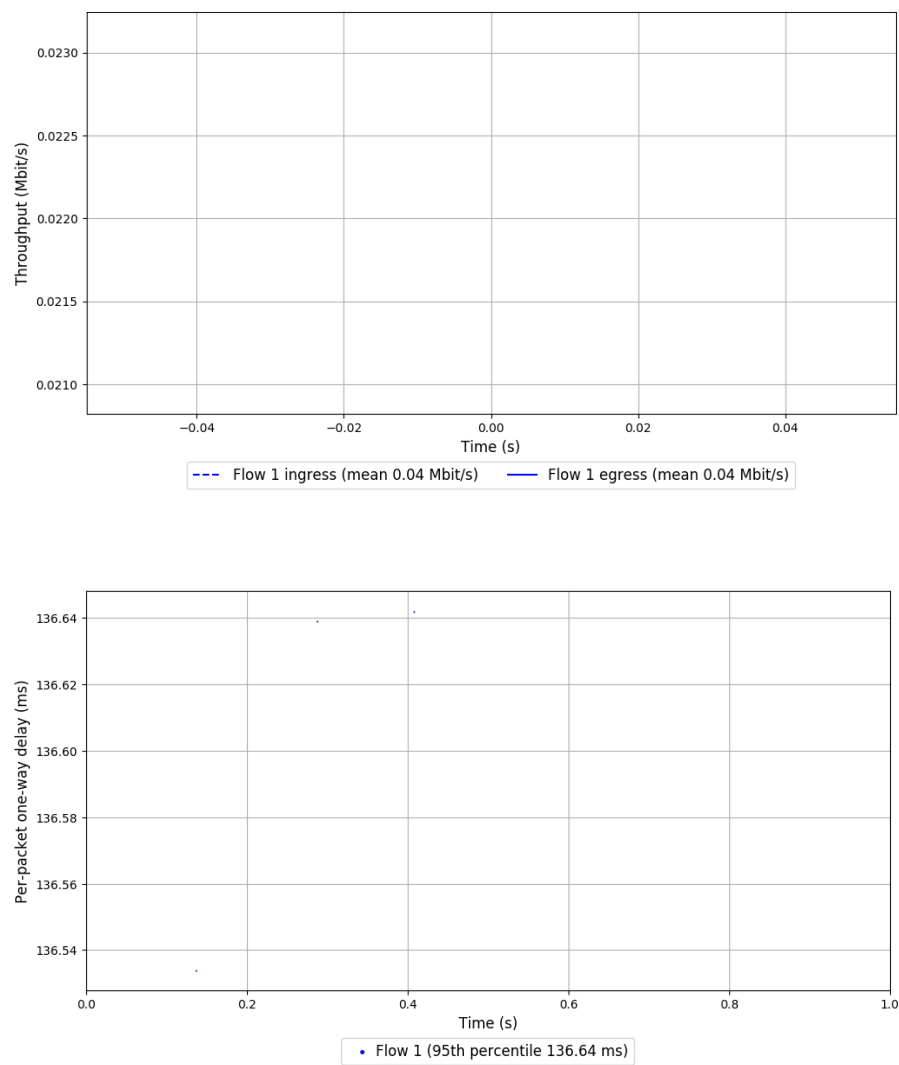


Run 1: Statistics of QUIC Cubic

Start at: 2018-03-21 00:06:34

End at: 2018-03-21 00:07:04

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-03-21 00:22:40

End at: 2018-03-21 00:23:10

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.91 Mbit/s

95th percentile per-packet one-way delay: 136.754 ms

Loss rate: 0.00%

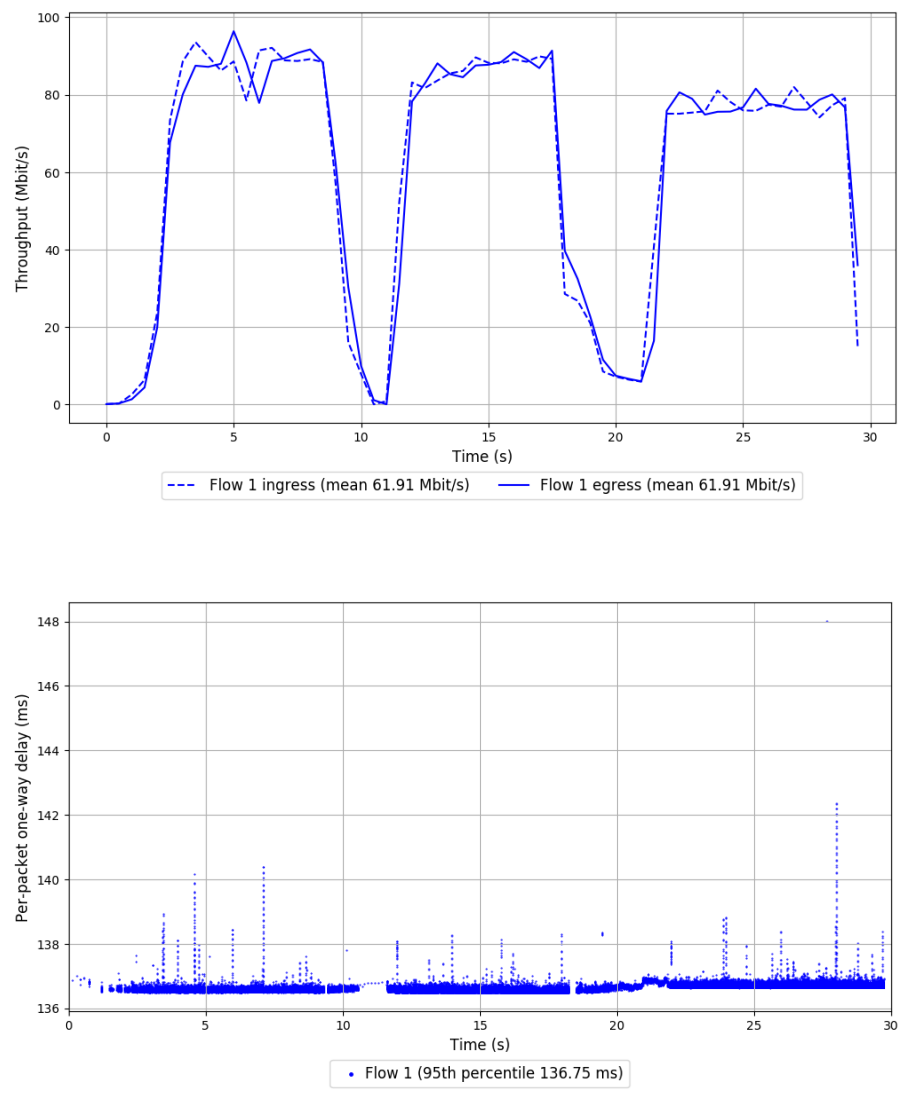
-- Flow 1:

Average throughput: 61.91 Mbit/s

95th percentile per-packet one-way delay: 136.754 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-03-21 00:38:46

End at: 2018-03-21 00:39:16

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.08 Mbit/s

95th percentile per-packet one-way delay: 137.140 ms

Loss rate: 0.00%

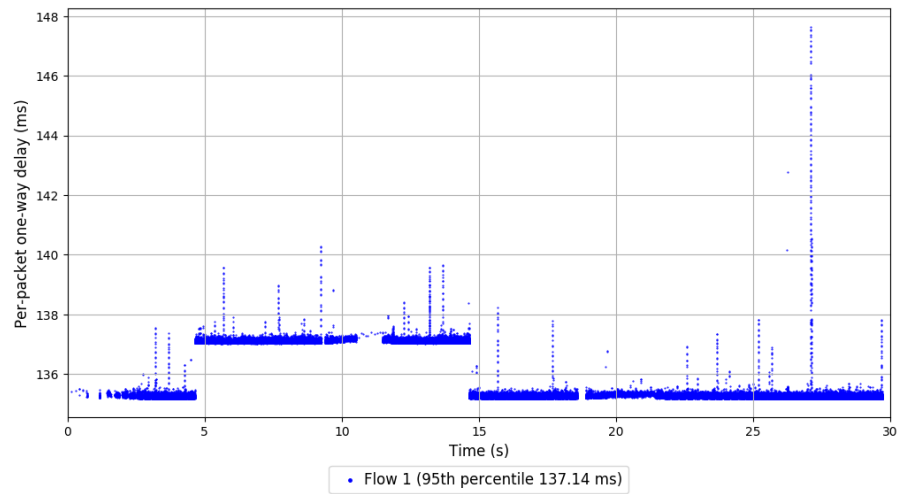
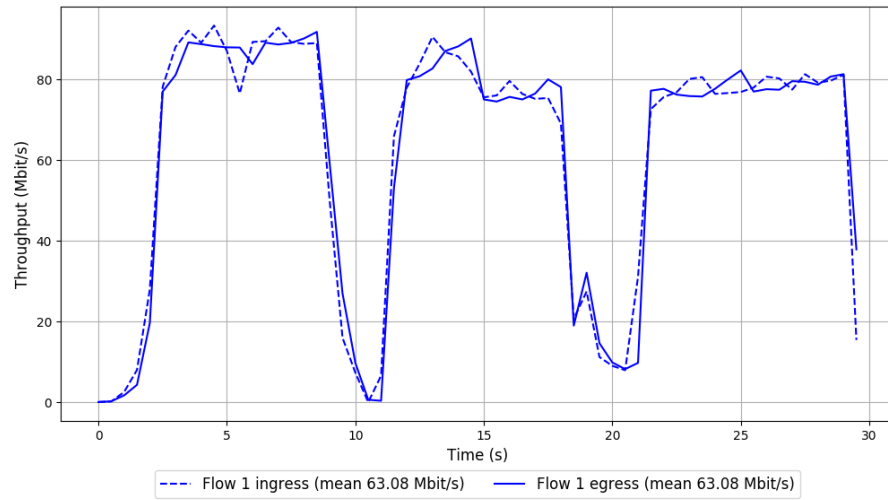
-- Flow 1:

Average throughput: 63.08 Mbit/s

95th percentile per-packet one-way delay: 137.140 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-03-21 00:54:51

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

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.11 Mbit/s

95th percentile per-packet one-way delay: 136.637 ms

Loss rate: 0.00%

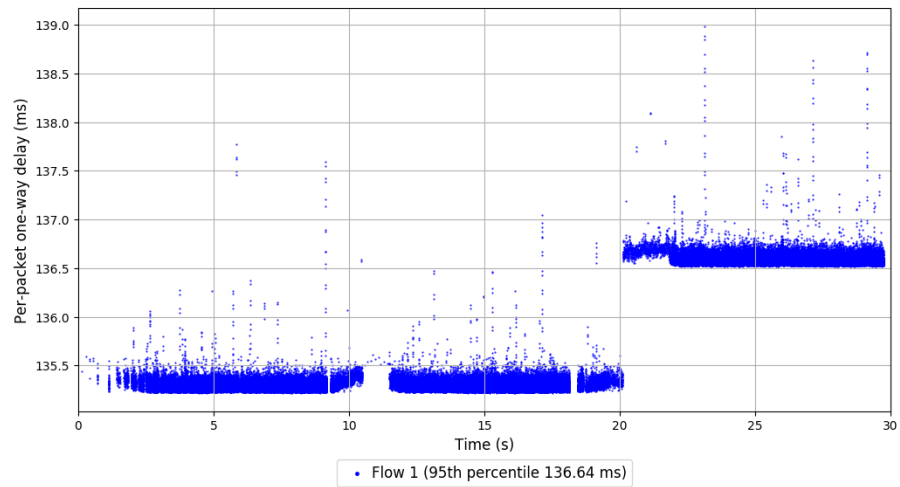
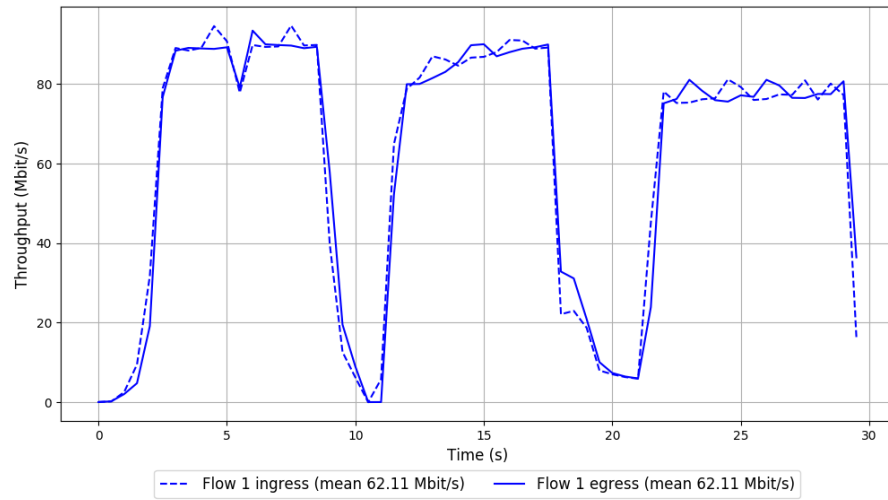
-- Flow 1:

Average throughput: 62.11 Mbit/s

95th percentile per-packet one-way delay: 136.637 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-03-21 01:11:03

End at: 2018-03-21 01:11:33

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.92 Mbit/s

95th percentile per-packet one-way delay: 135.766 ms

Loss rate: 0.00%

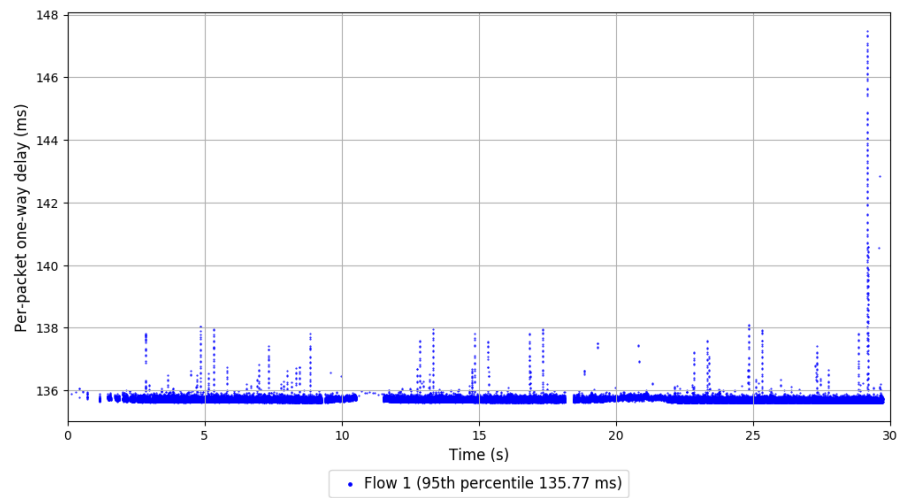
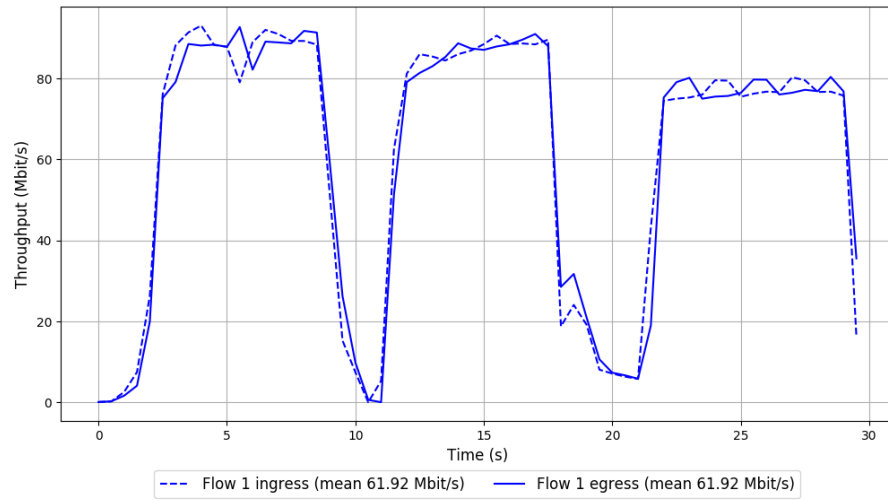
-- Flow 1:

Average throughput: 61.92 Mbit/s

95th percentile per-packet one-way delay: 135.766 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-03-21 01:27:02

End at: 2018-03-21 01:27:32

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.18 Mbit/s

95th percentile per-packet one-way delay: 135.002 ms

Loss rate: 0.00%

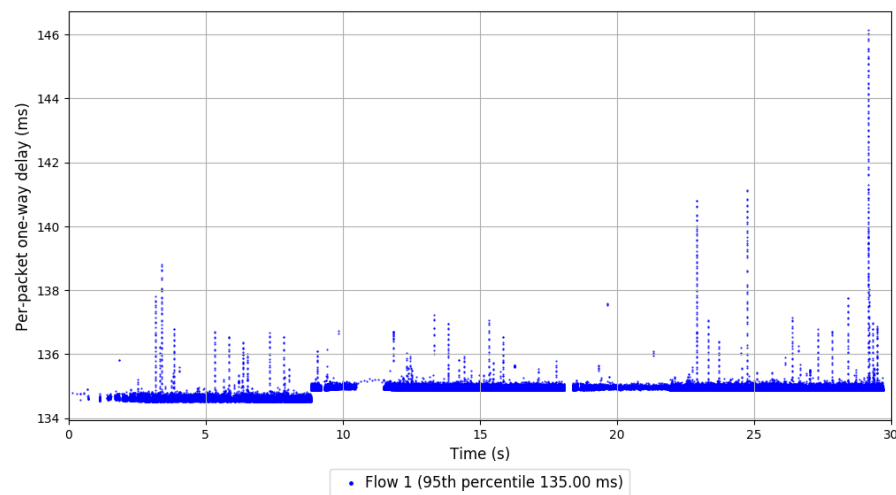
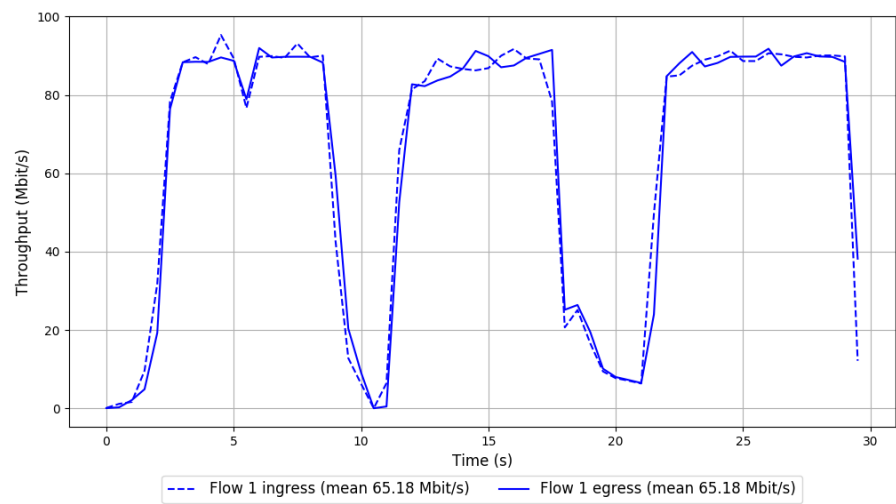
-- Flow 1:

Average throughput: 65.18 Mbit/s

95th percentile per-packet one-way delay: 135.002 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-03-21 01:43:19

End at: 2018-03-21 01:43:49

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.42 Mbit/s

95th percentile per-packet one-way delay: 136.655 ms

Loss rate: 0.00%

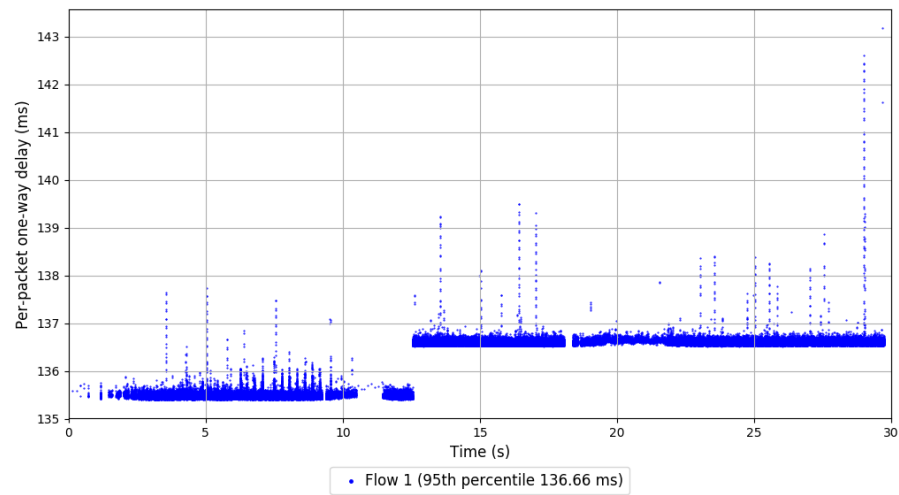
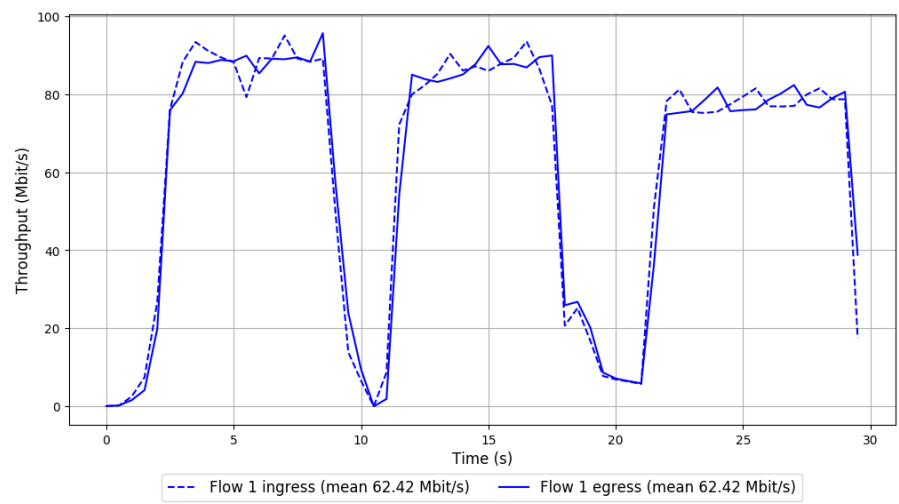
-- Flow 1:

Average throughput: 62.42 Mbit/s

95th percentile per-packet one-way delay: 136.655 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link

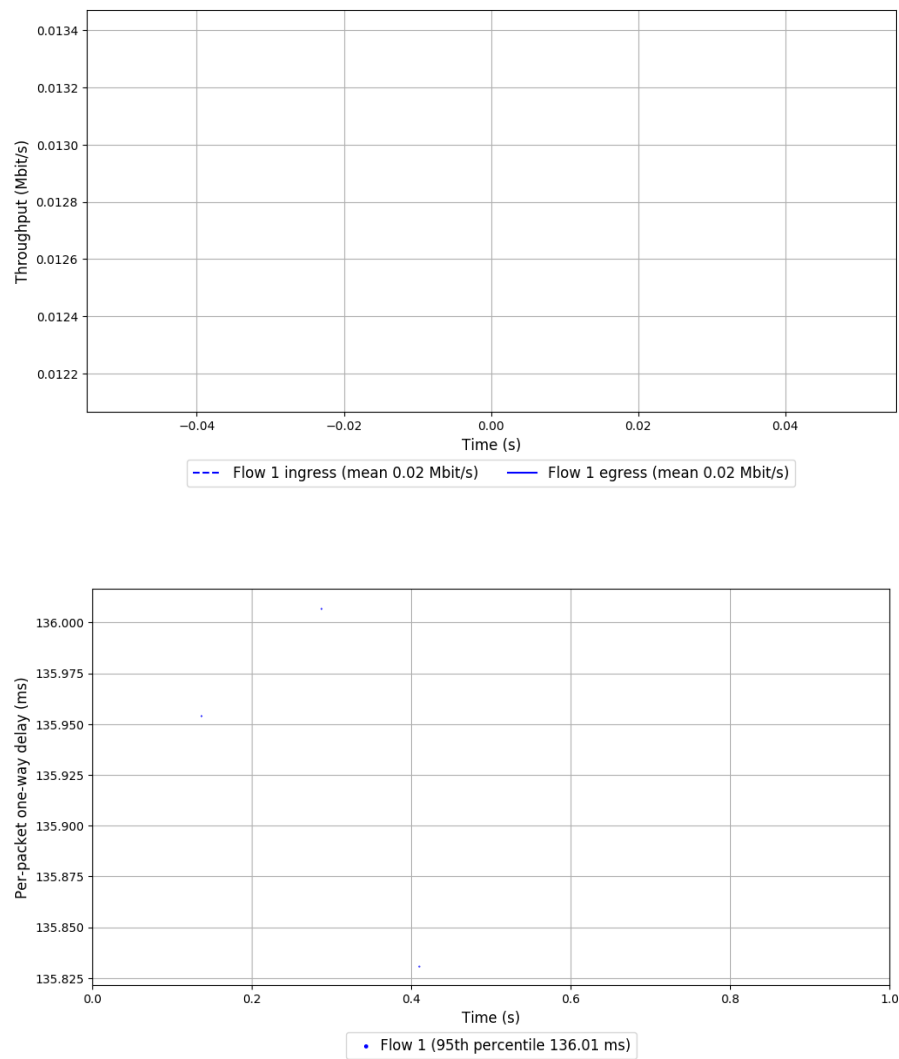


Run 8: Statistics of QUIC Cubic

Start at: 2018-03-21 01:59:16

End at: 2018-03-21 01:59:47

Run 8: Report of QUIC Cubic — Data Link

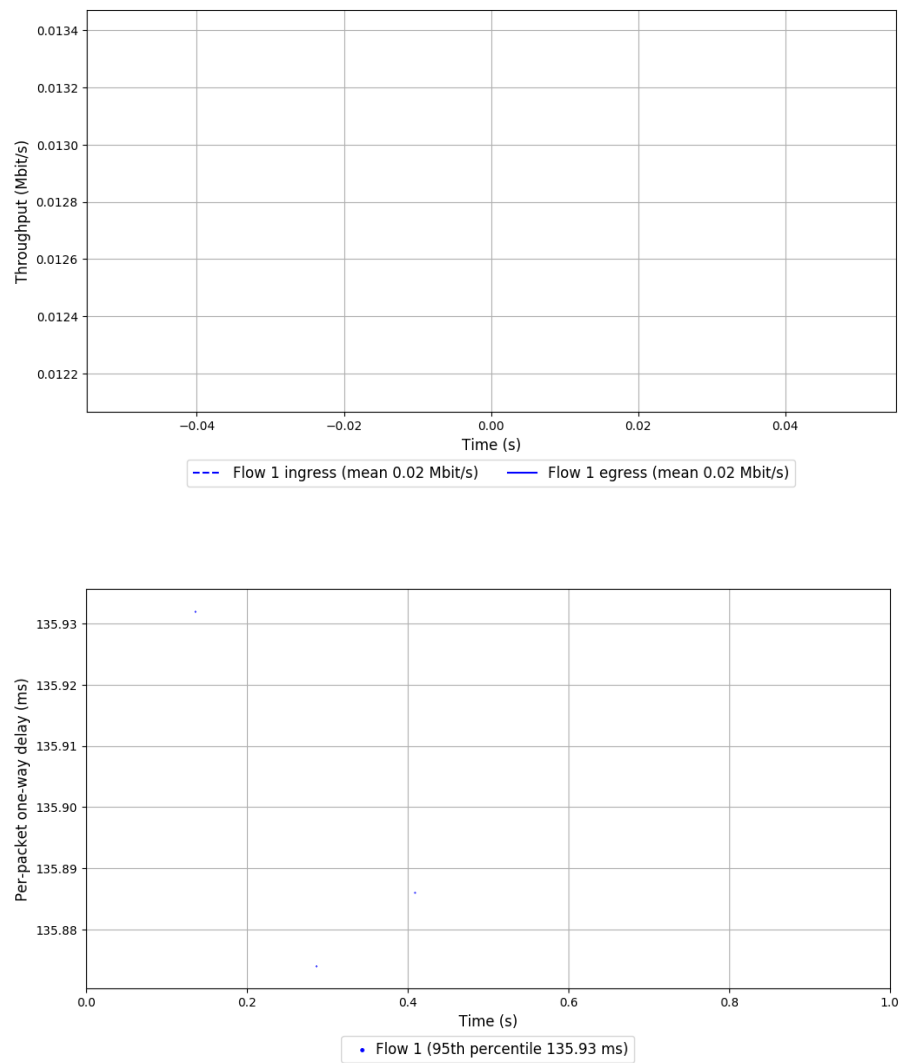


Run 9: Statistics of QUIC Cubic

Start at: 2018-03-21 02:15:09

End at: 2018-03-21 02:15:39

Run 9: Report of QUIC Cubic — Data Link

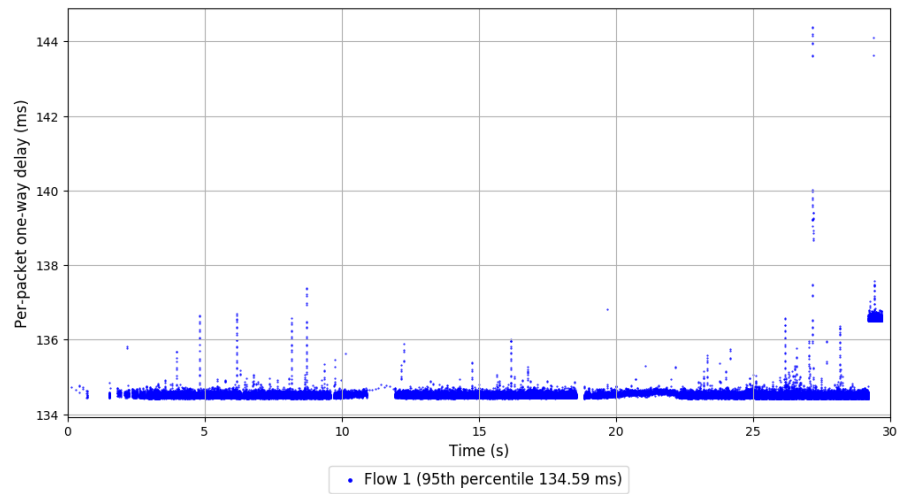
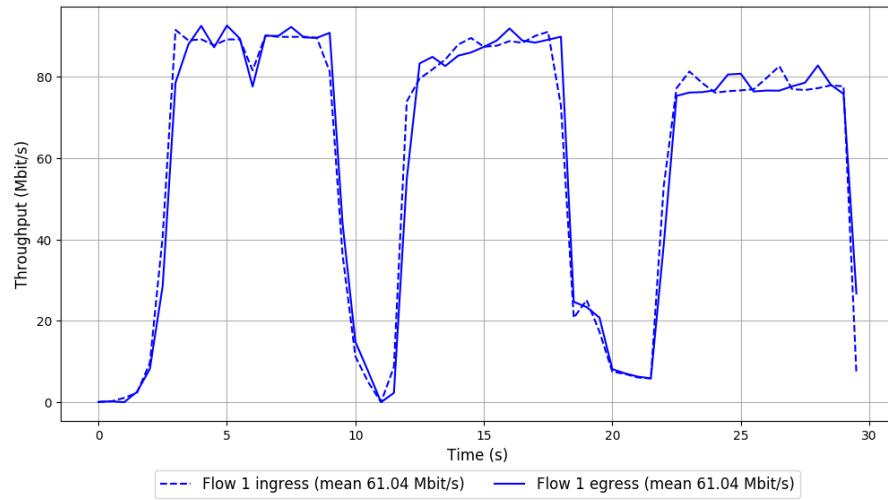


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-03-21 02:31:22
End at: 2018-03-21 02:31:52

# Below is generated by plot.py at 2018-03-21 04:21:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.04 Mbit/s
95th percentile per-packet one-way delay: 134.593 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.04 Mbit/s
95th percentile per-packet one-way delay: 134.593 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

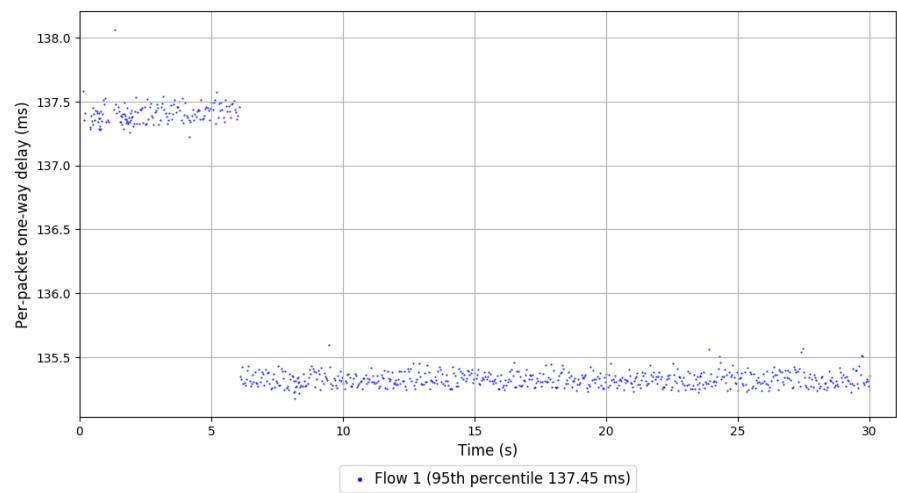
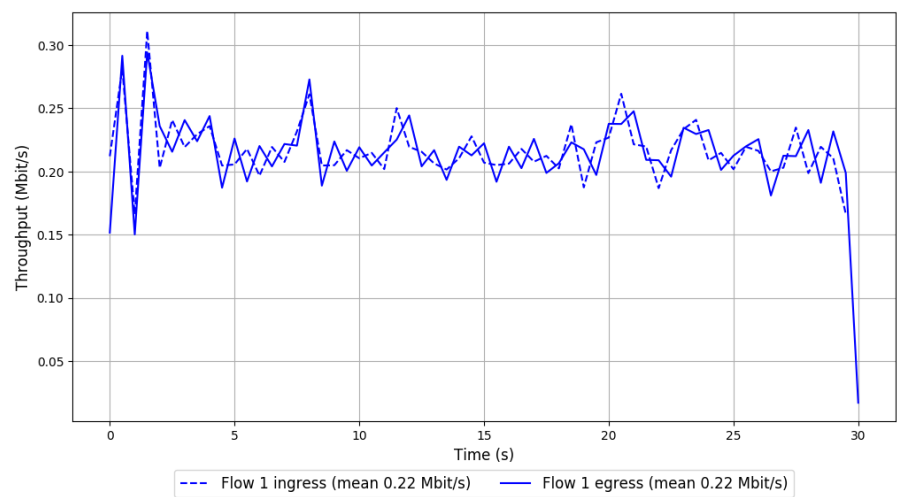


```
Run 1: Statistics of SCReAM

Start at: 2018-03-21 00:03:55
End at: 2018-03-21 00:04:25

# Below is generated by plot.py at 2018-03-21 04:21:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.454 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.454 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

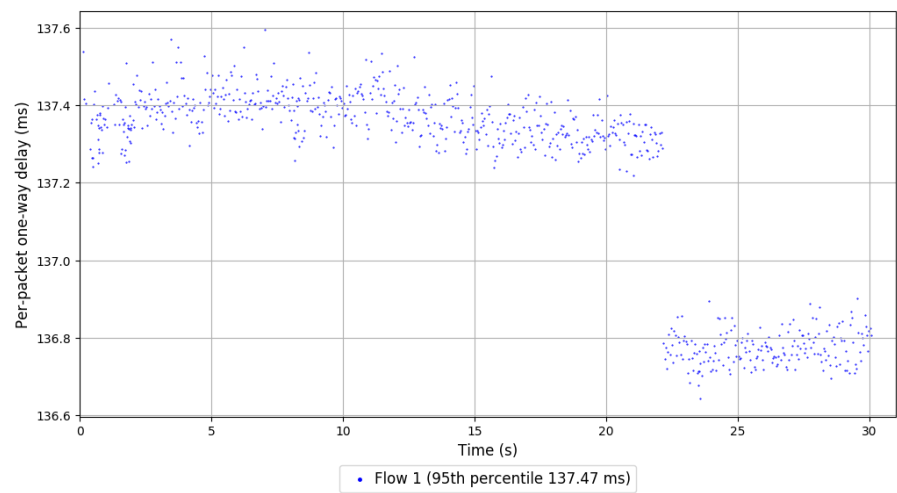
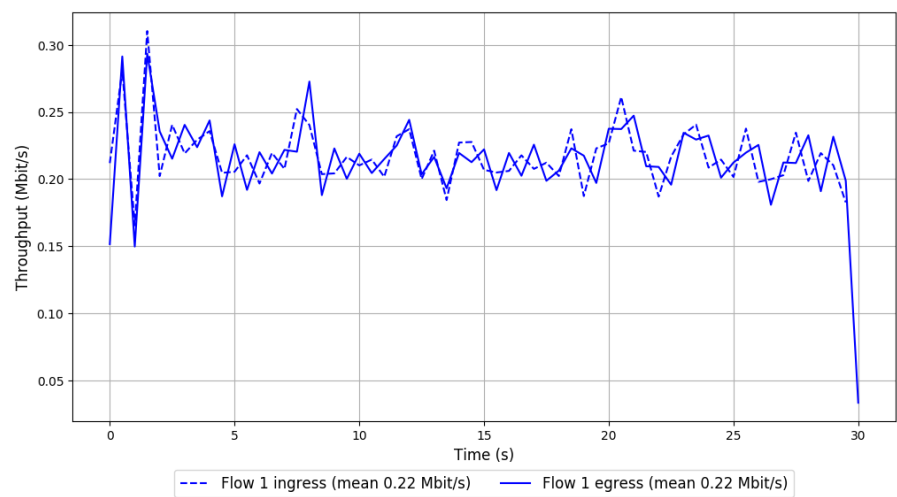


```
Run 2: Statistics of SCReAM

Start at: 2018-03-21 00:19:59
End at: 2018-03-21 00:20:29

# Below is generated by plot.py at 2018-03-21 04:21:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.465 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.465 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-03-21 00:36:05

End at: 2018-03-21 00:36:35

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.356 ms

Loss rate: 0.00%

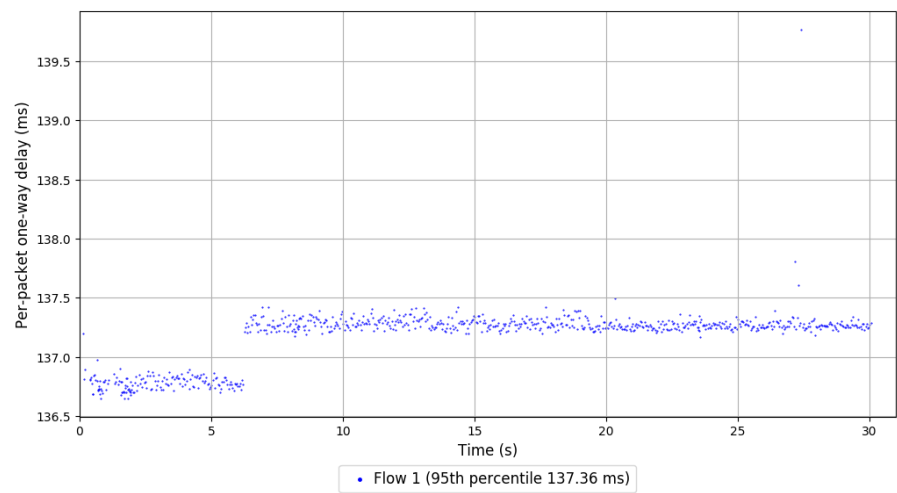
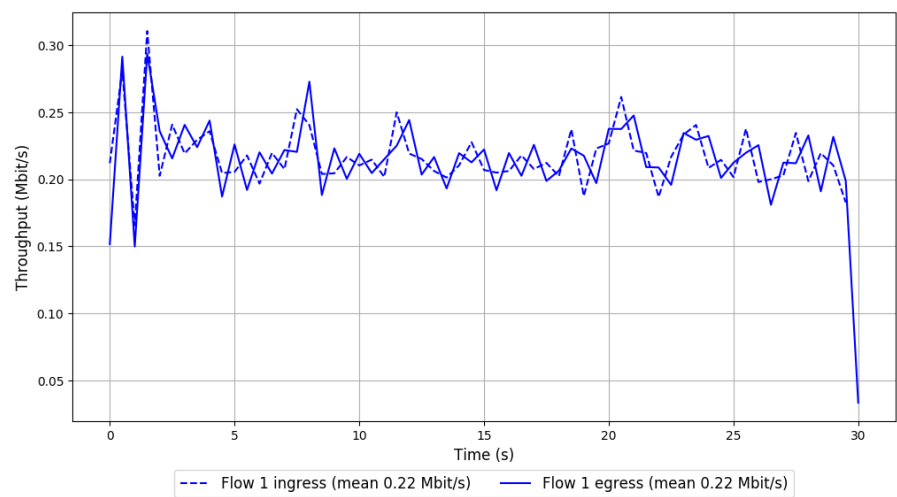
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.356 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

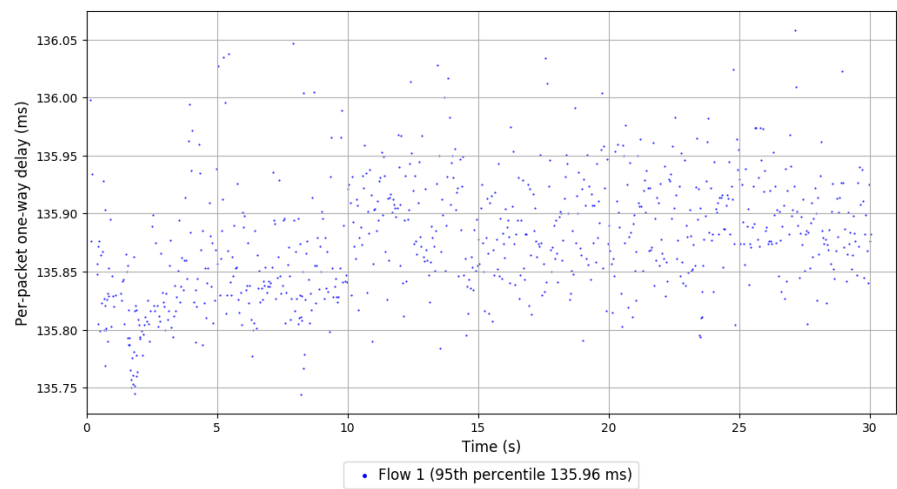
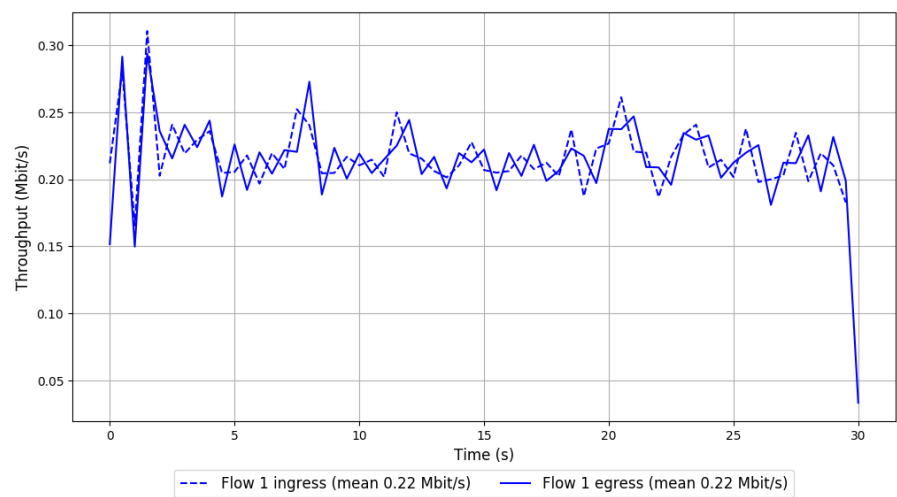


```
Run 4: Statistics of SCReAM

Start at: 2018-03-21 00:52:16
End at: 2018-03-21 00:52:46

# Below is generated by plot.py at 2018-03-21 04:21:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.964 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.964 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-03-21 01:08:29

End at: 2018-03-21 01:08:59

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.123 ms

Loss rate: 0.00%

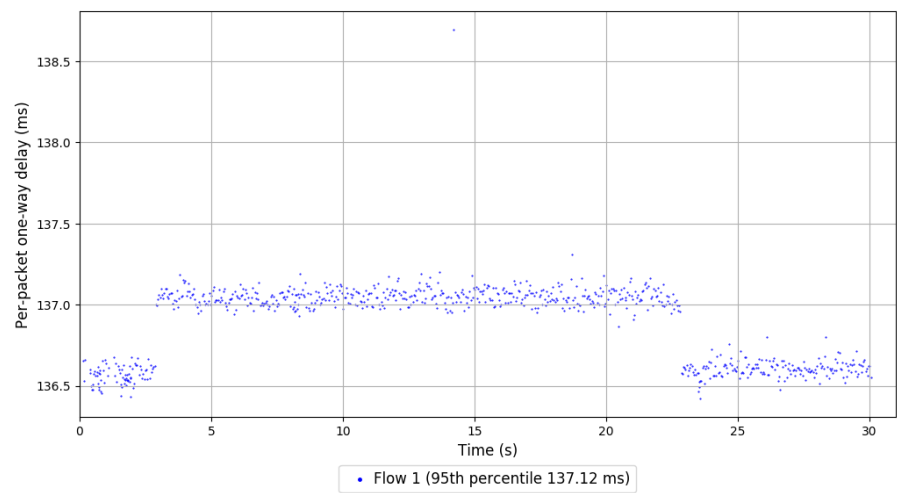
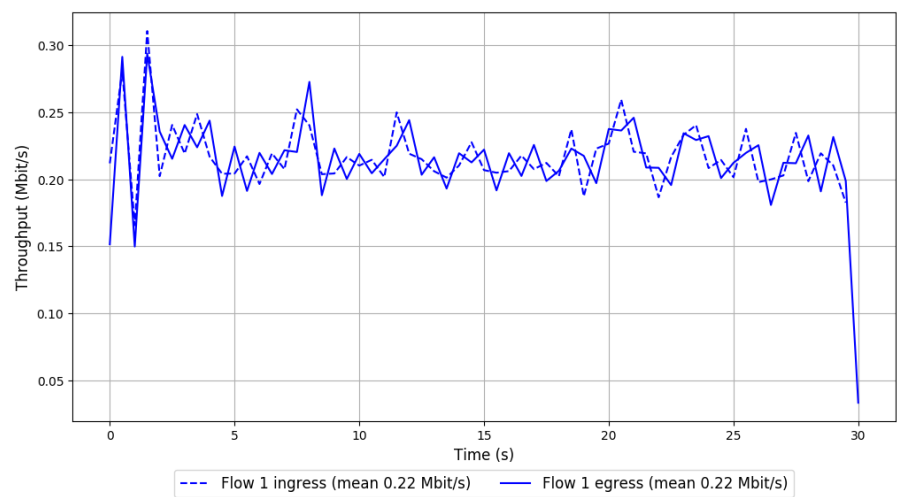
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.123 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-03-21 01:24:21

End at: 2018-03-21 01:24:51

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.285 ms

Loss rate: 0.00%

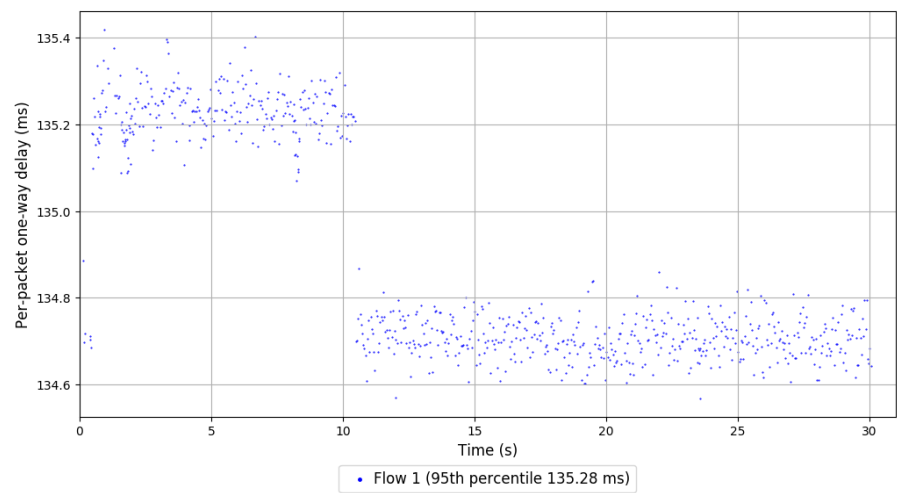
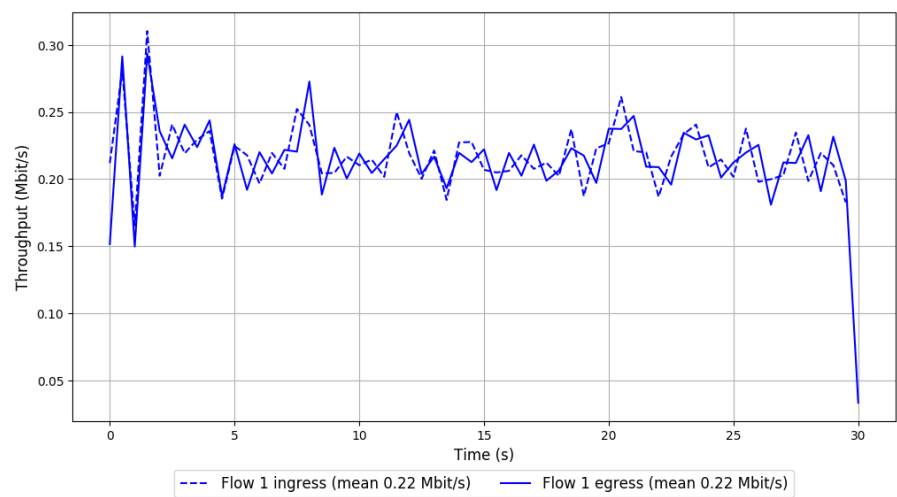
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.285 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

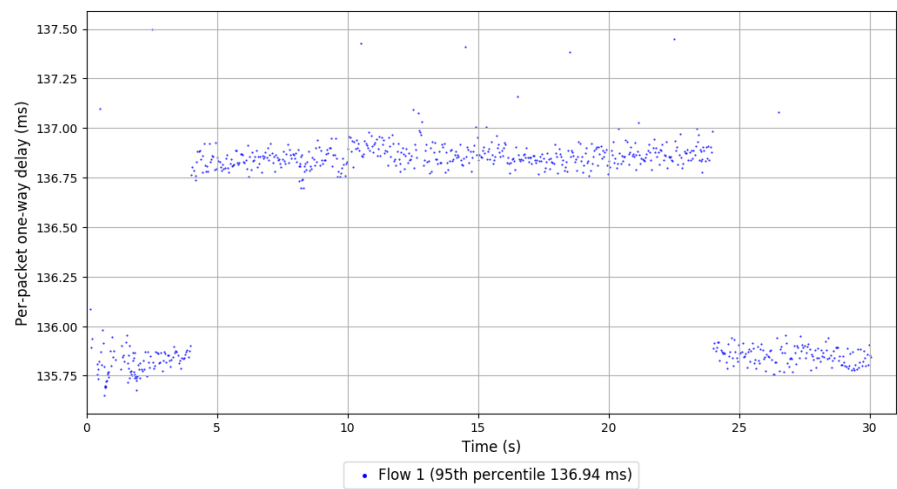
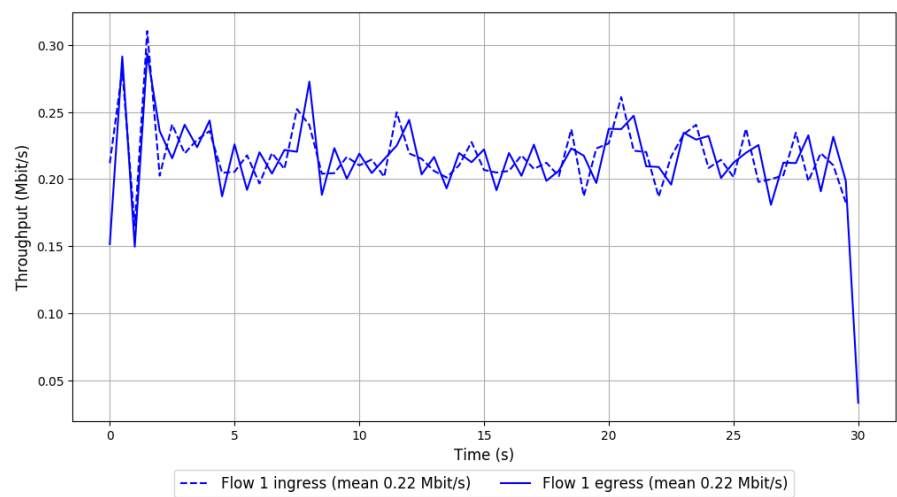


```
Run 7: Statistics of SCReAM

Start at: 2018-03-21 01:40:37
End at: 2018-03-21 01:41:07

# Below is generated by plot.py at 2018-03-21 04:21:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.938 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.938 ms
Loss rate: 0.00%
```

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-03-21 01:56:35

End at: 2018-03-21 01:57:05

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.626 ms

Loss rate: 0.00%

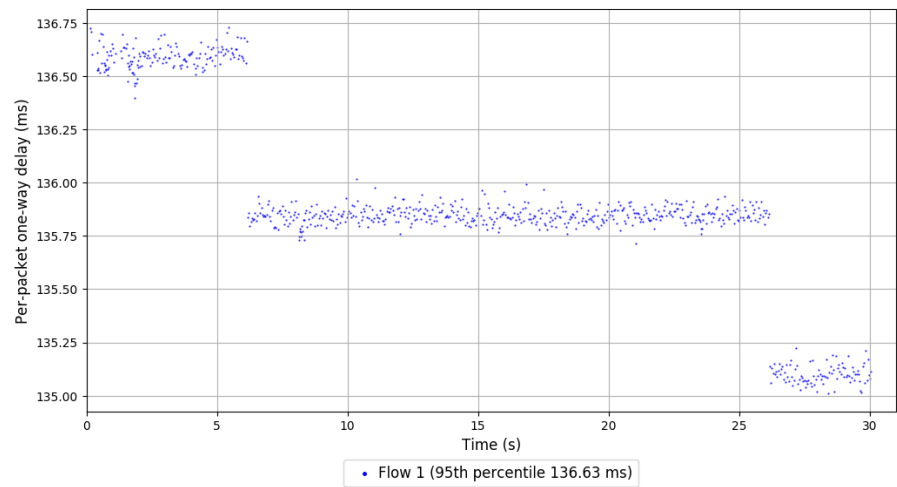
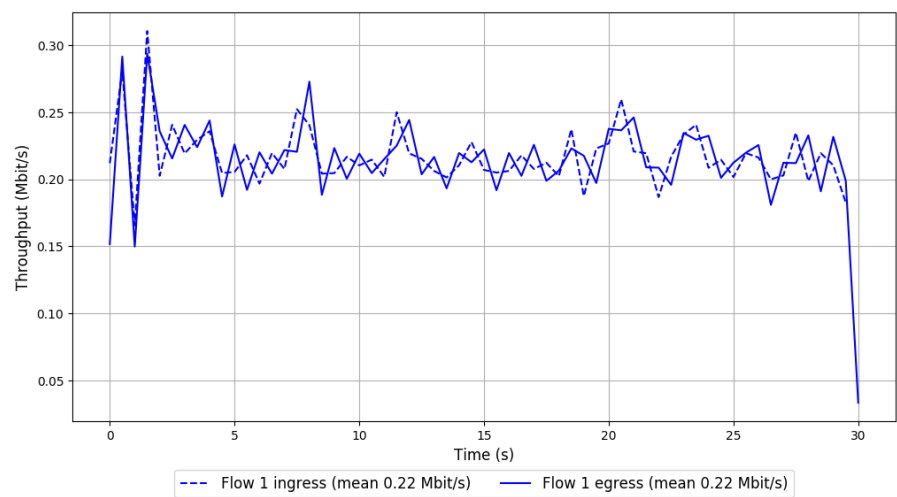
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.626 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-03-21 02:12:27

End at: 2018-03-21 02:12:57

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.851 ms

Loss rate: 0.00%

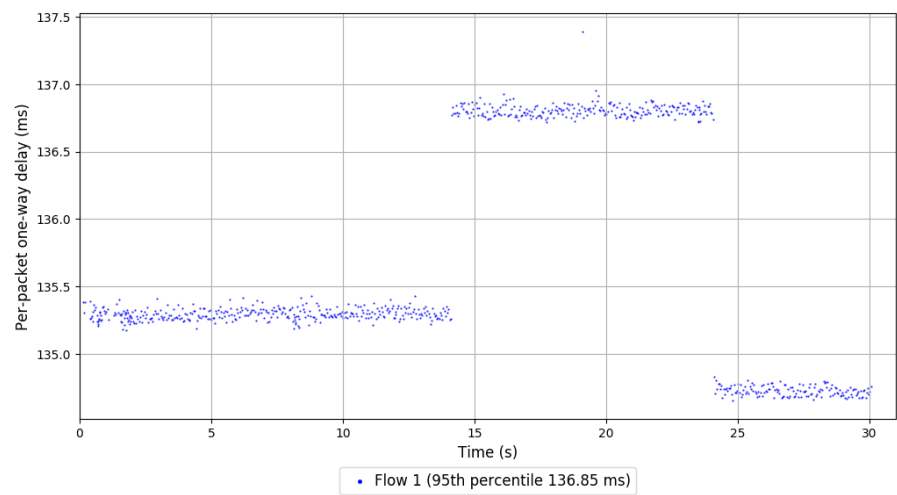
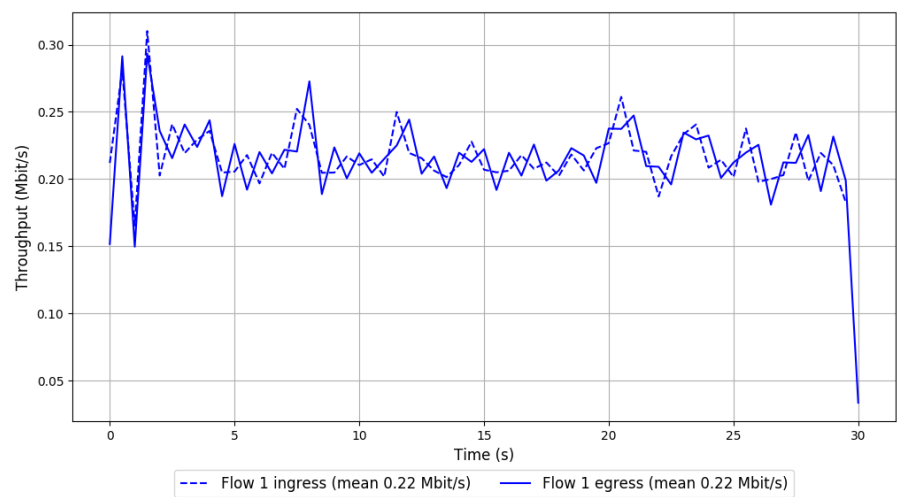
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.851 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-03-21 02:28:41

End at: 2018-03-21 02:29:11

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.887 ms

Loss rate: 0.00%

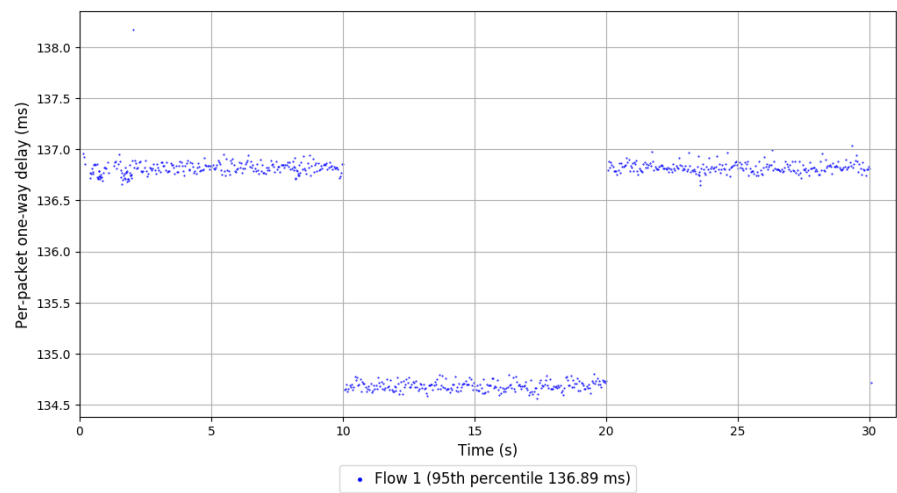
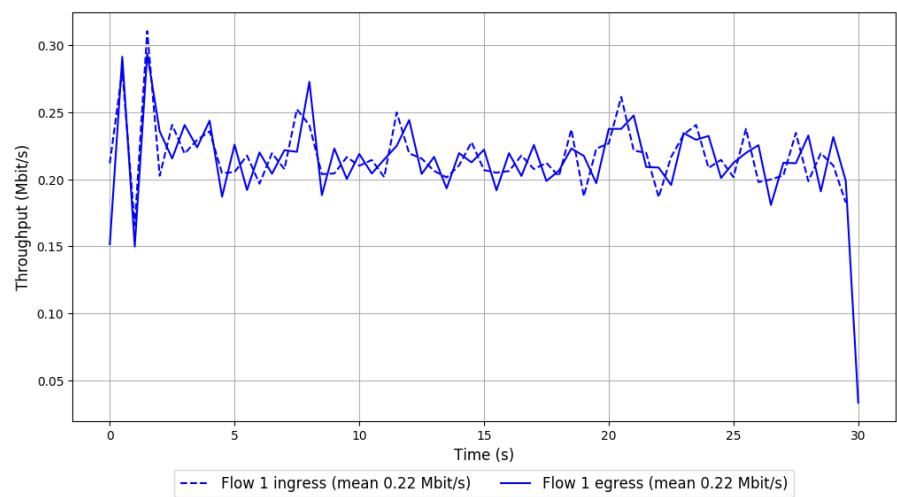
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.887 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

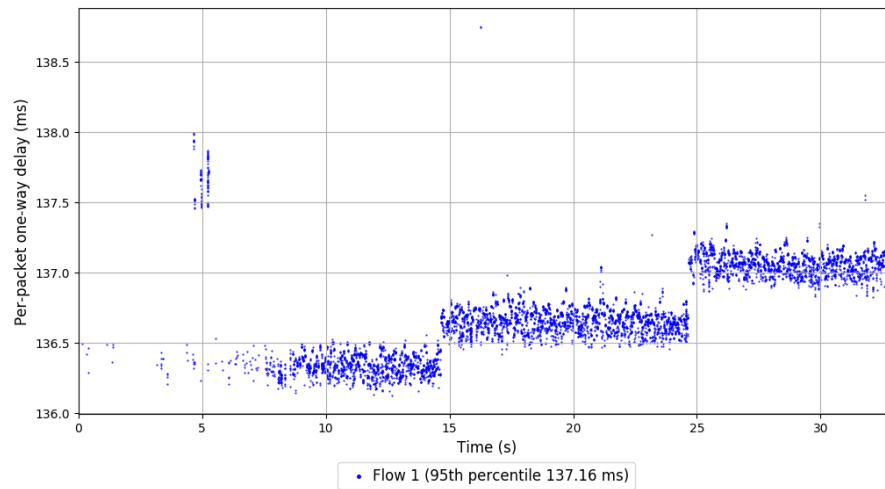
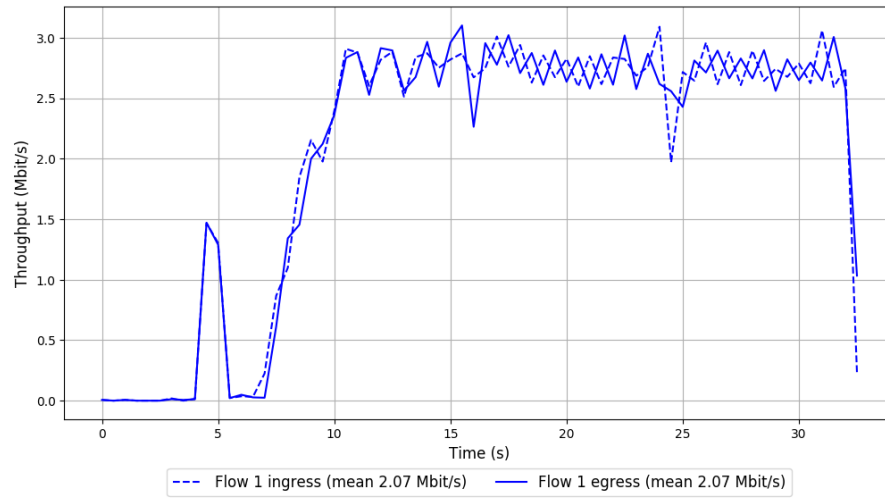


```
Run 1: Statistics of WebRTC media

Start at: 2018-03-21 00:11:59
End at: 2018-03-21 00:12:29

# Below is generated by plot.py at 2018-03-21 04:21:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 137.155 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 137.155 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-03-21 00:28:24

End at: 2018-03-21 00:28:54

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 137.028 ms

Loss rate: 0.00%

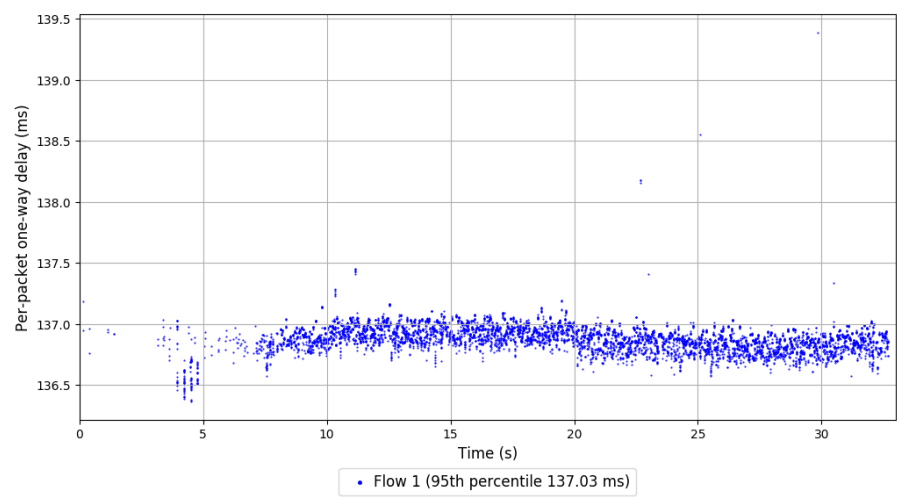
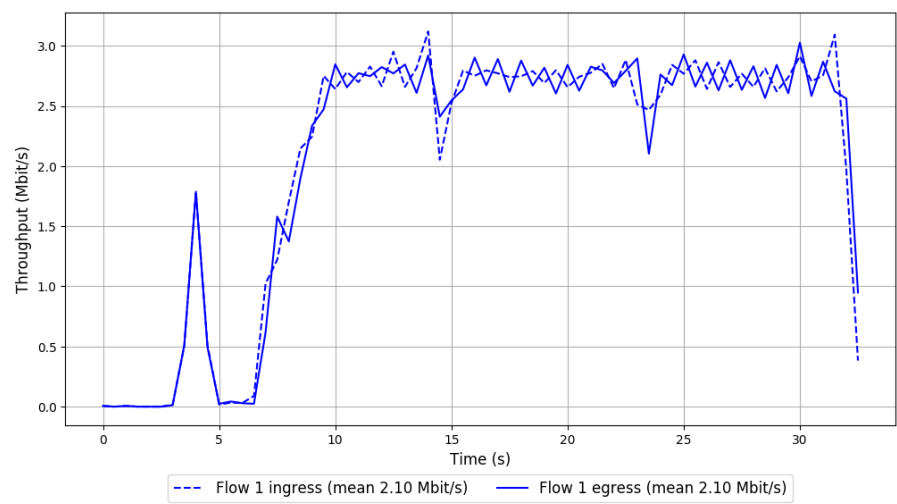
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 137.028 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-03-21 00:44:17

End at: 2018-03-21 00:44:47

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.829 ms

Loss rate: 0.00%

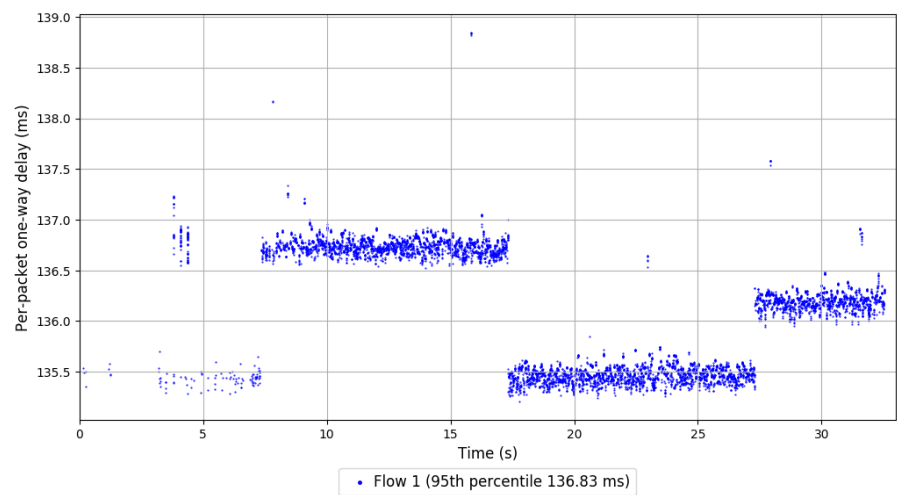
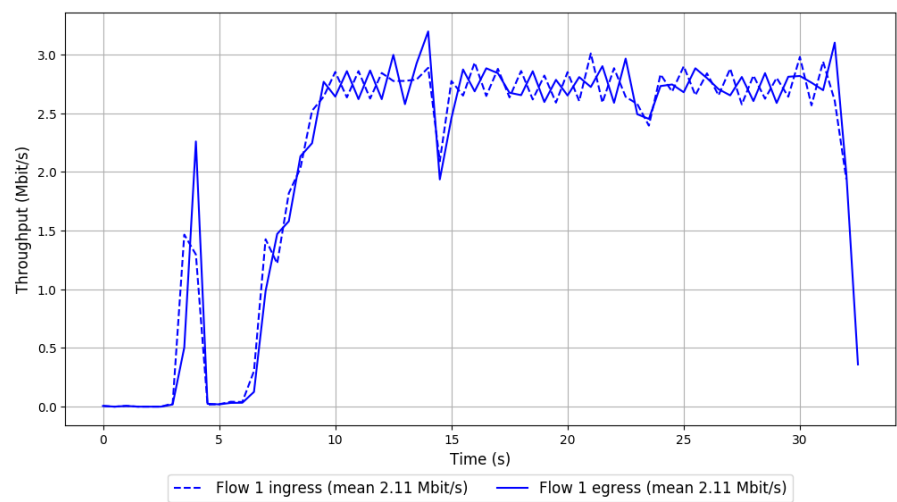
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.829 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-03-21 01:00:32

End at: 2018-03-21 01:01:02

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.923 ms

Loss rate: 0.00%

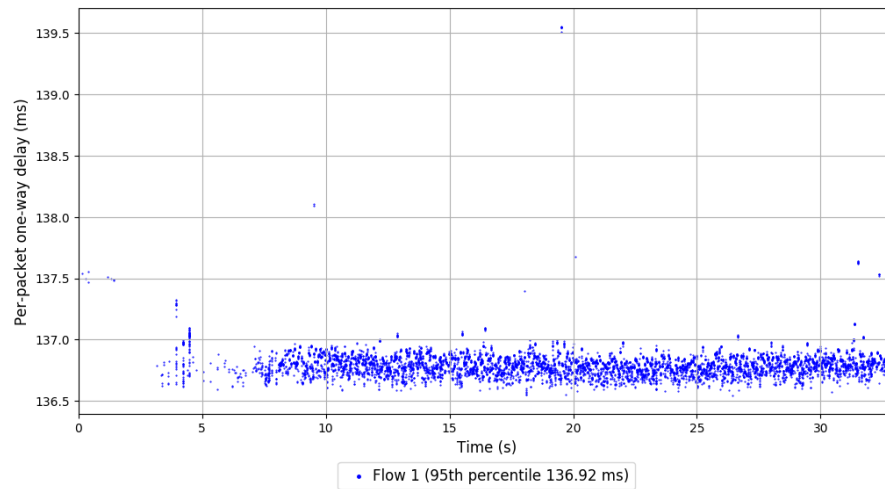
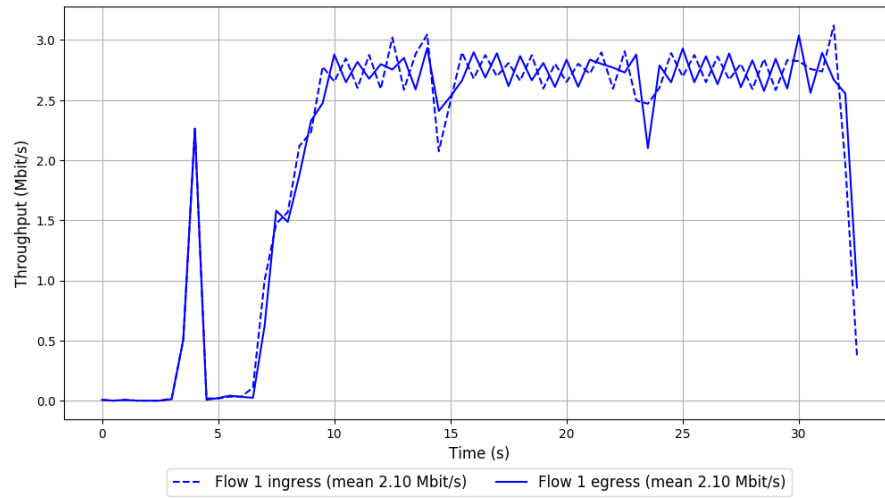
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.923 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-03-21 01:16:44

End at: 2018-03-21 01:17:14

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 135.069 ms

Loss rate: 0.00%

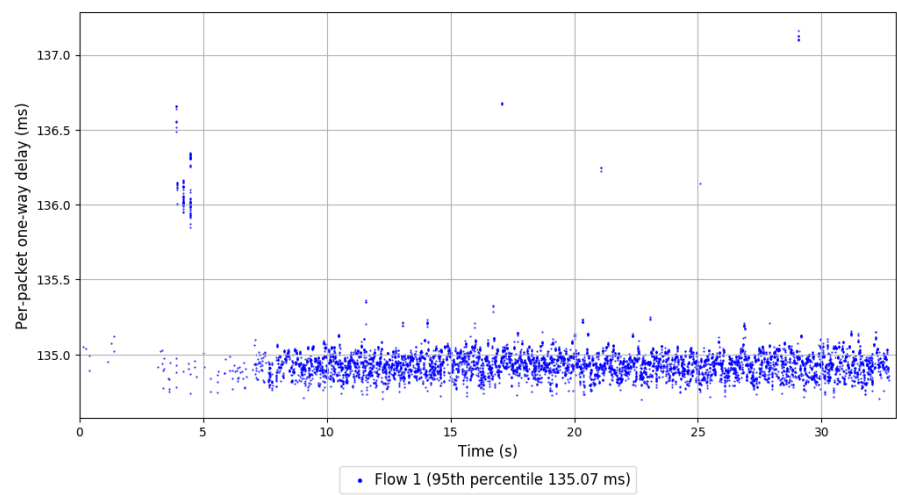
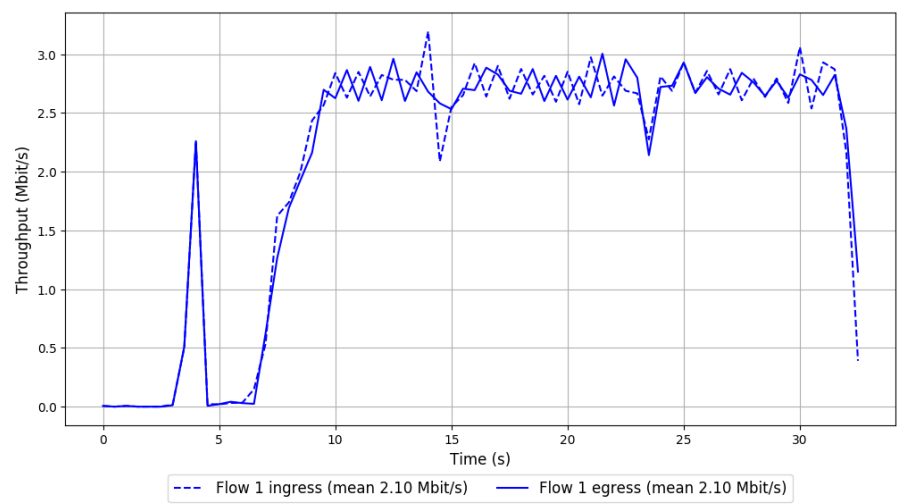
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 135.069 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-03-21 01:32:40

End at: 2018-03-21 01:33:10

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 135.970 ms

Loss rate: 0.00%

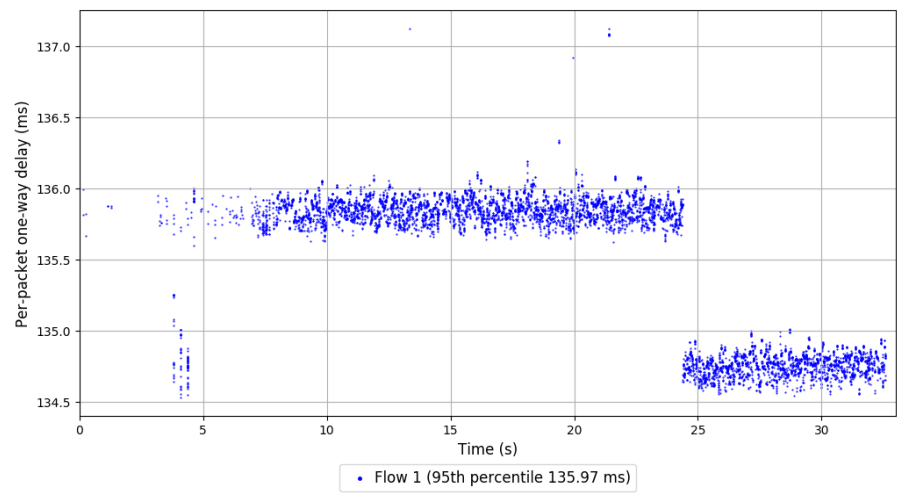
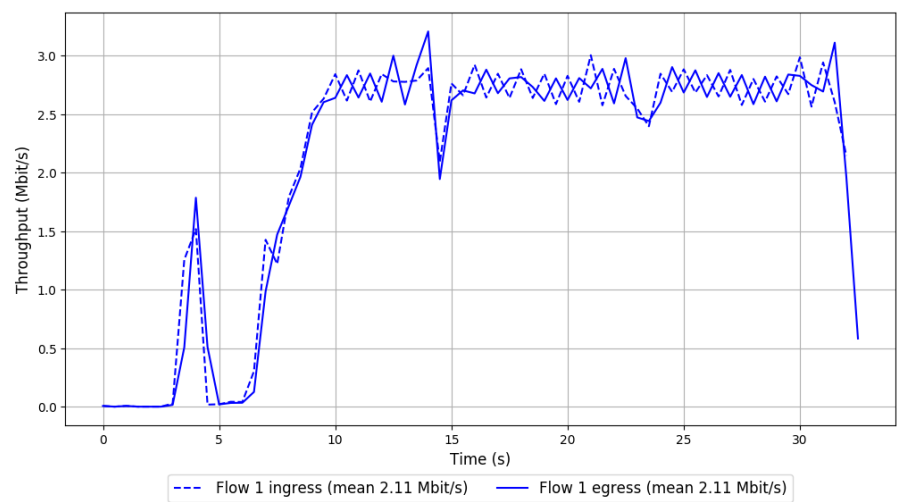
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 135.970 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-03-21 01:48:56

End at: 2018-03-21 01:49:26

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

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

Loss rate: 0.00%

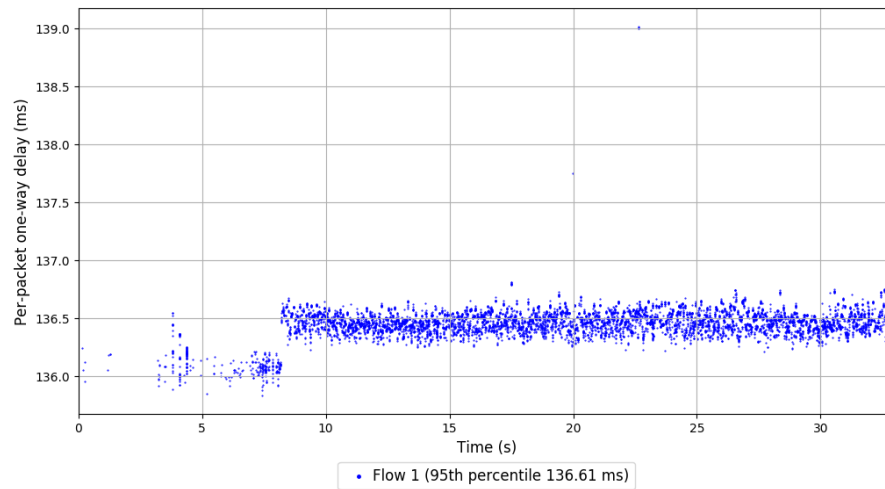
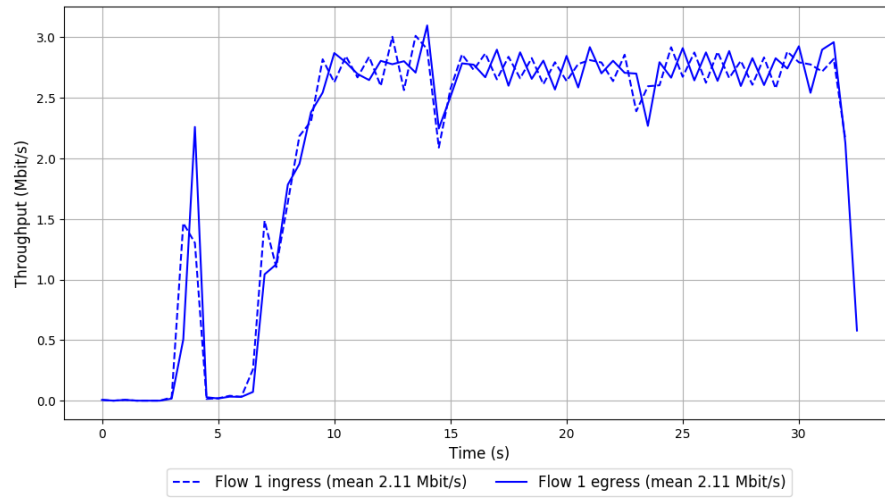
-- Flow 1:

Average throughput: 2.11 Mbit/s

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

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-03-21 02:04:50

End at: 2018-03-21 02:05:20

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 135.774 ms

Loss rate: 0.00%

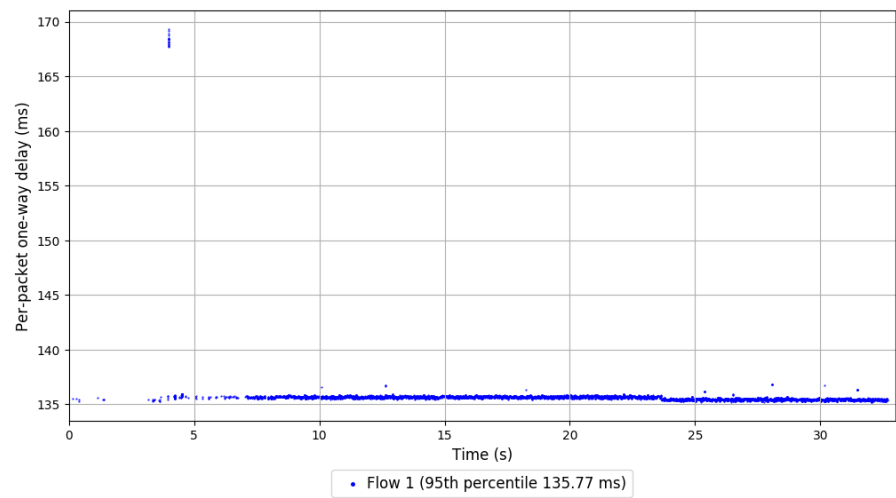
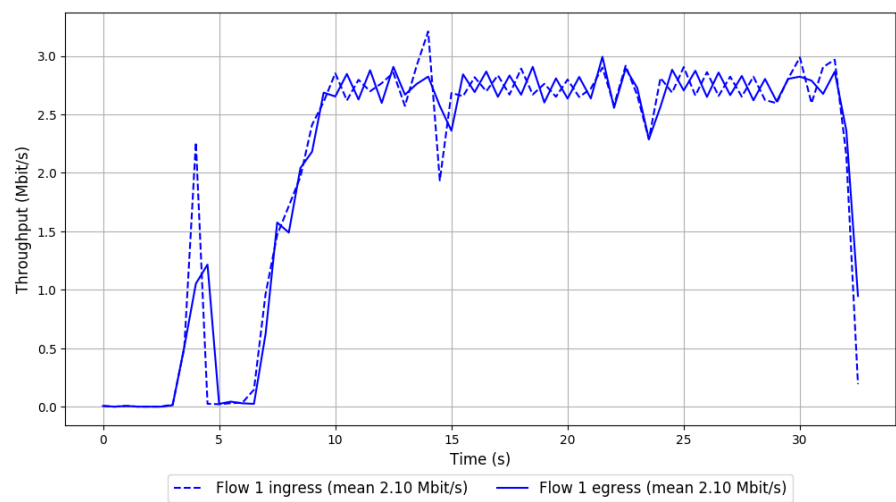
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 135.774 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-03-21 02:20:43

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

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 134.697 ms

Loss rate: 0.00%

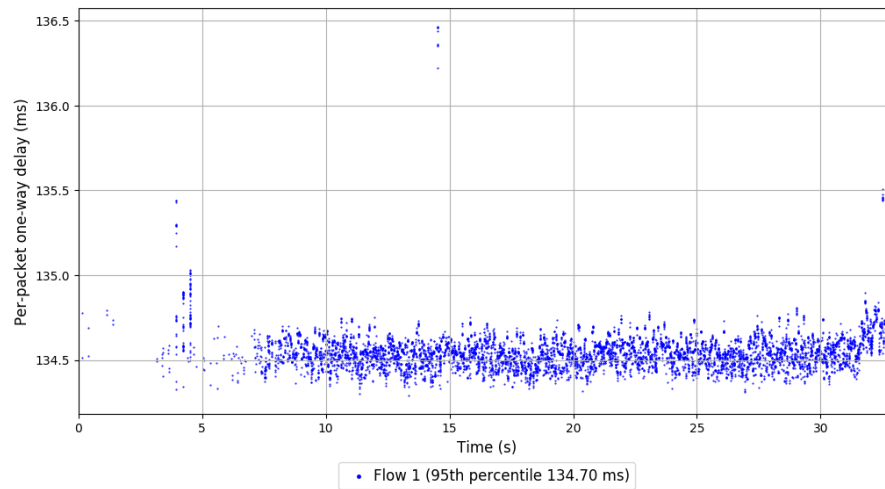
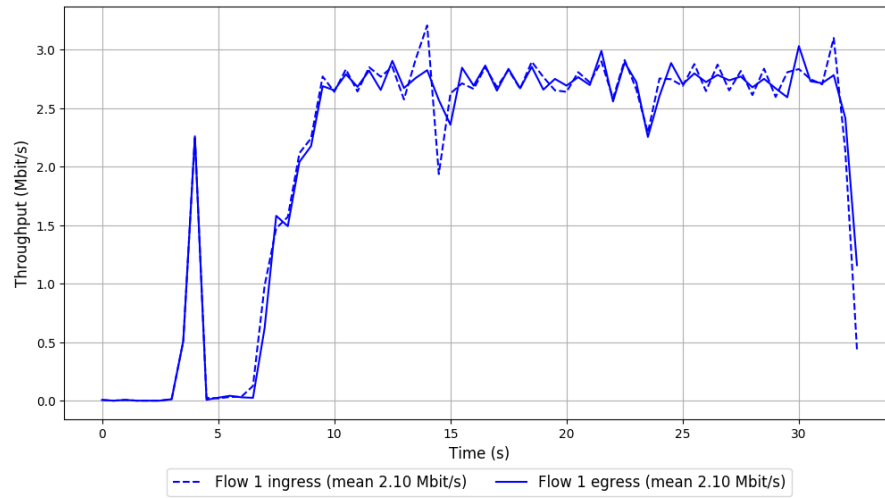
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 134.697 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-21 02:37:03

End at: 2018-03-21 02:37:33

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.924 ms

Loss rate: 0.00%

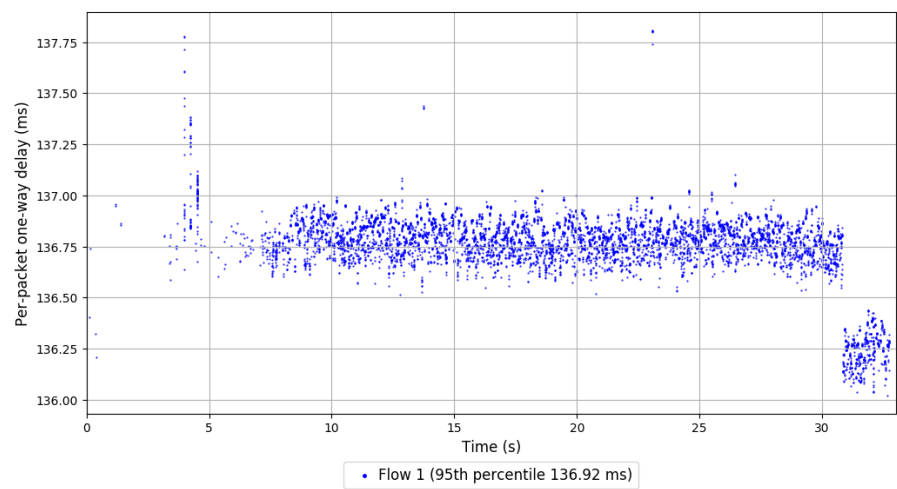
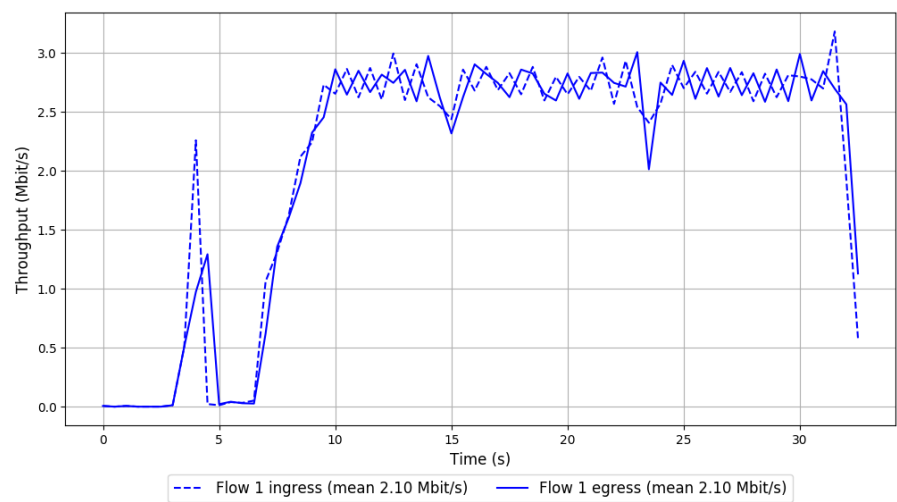
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.924 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

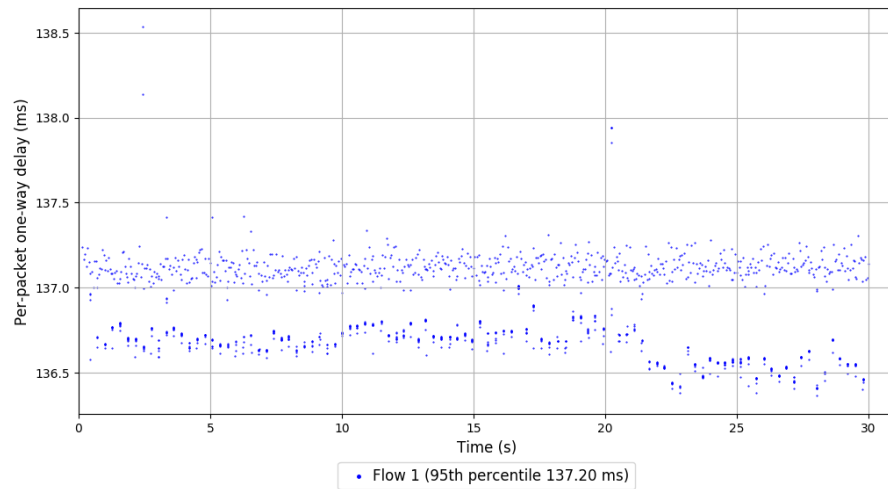
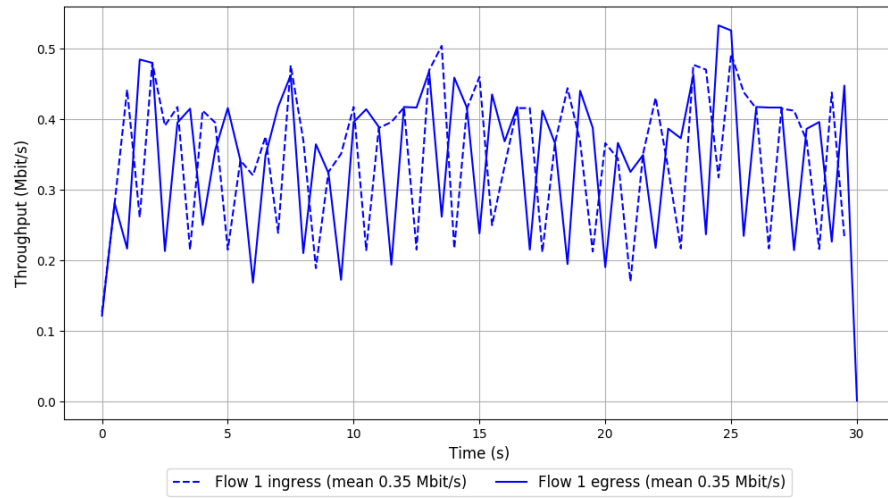


```
Run 1: Statistics of Sprout

Start at: 2018-03-21 00:13:50
End at: 2018-03-21 00:14:20

# Below is generated by plot.py at 2018-03-21 04:21:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 137.202 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 137.202 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-03-21 00:30:16

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

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.481 ms

Loss rate: 0.00%

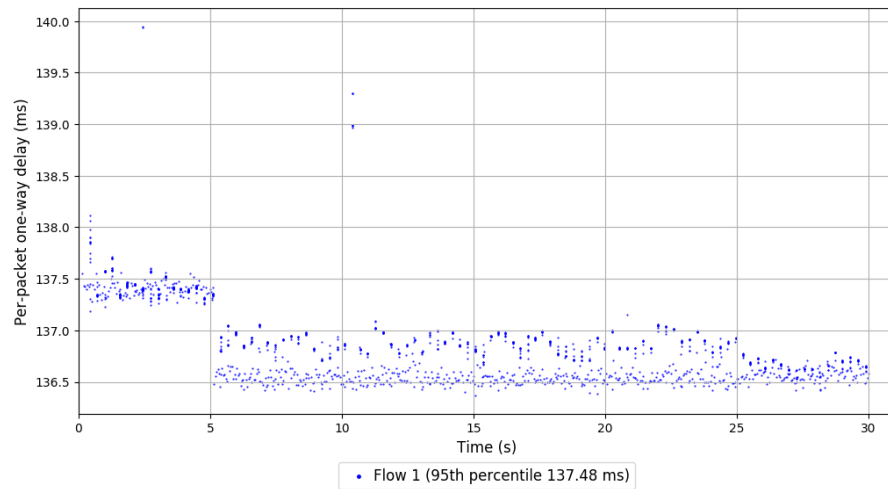
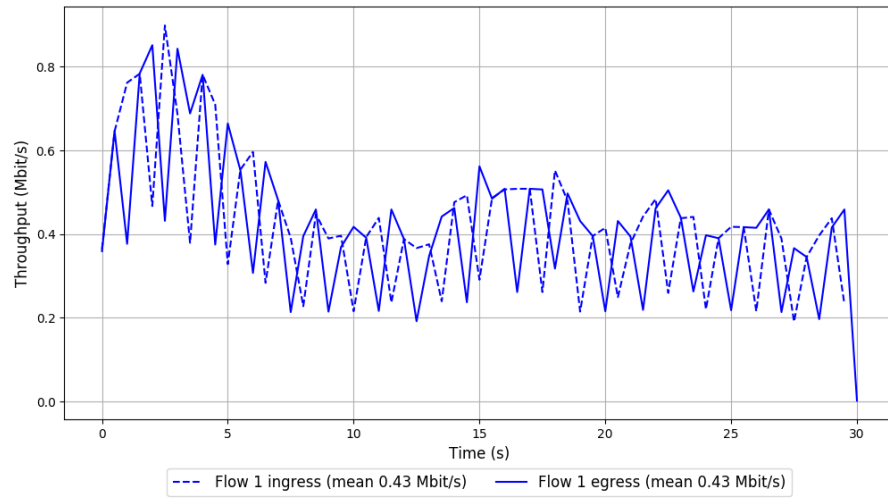
-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.481 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-03-21 00:46:07

End at: 2018-03-21 00:46:37

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.954 ms

Loss rate: 0.00%

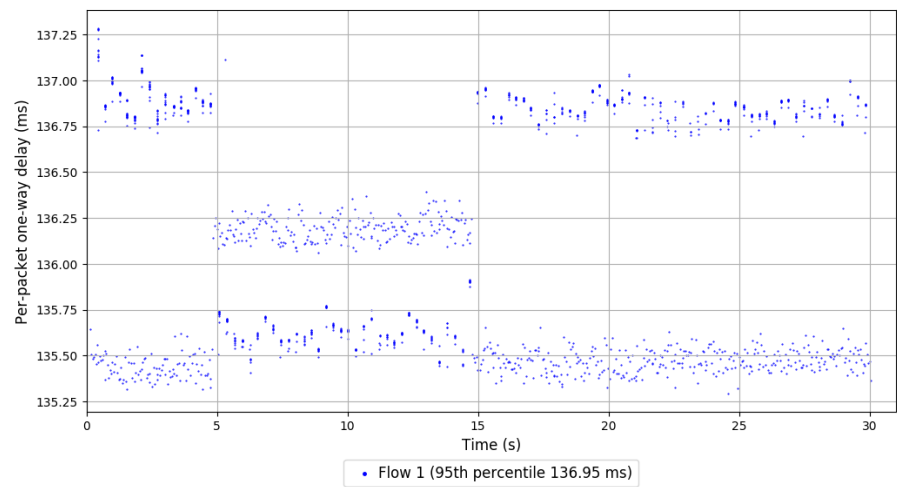
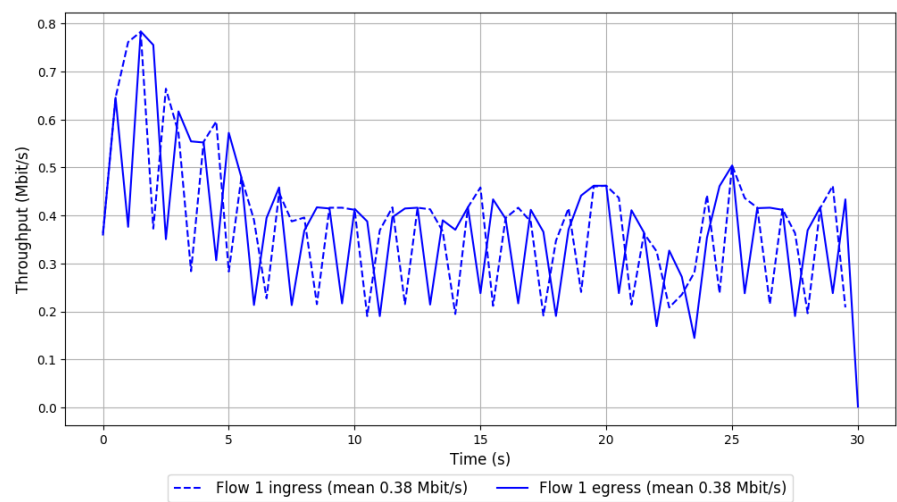
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.954 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-03-21 01:02:23

End at: 2018-03-21 01:02:53

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.457 ms

Loss rate: 0.00%

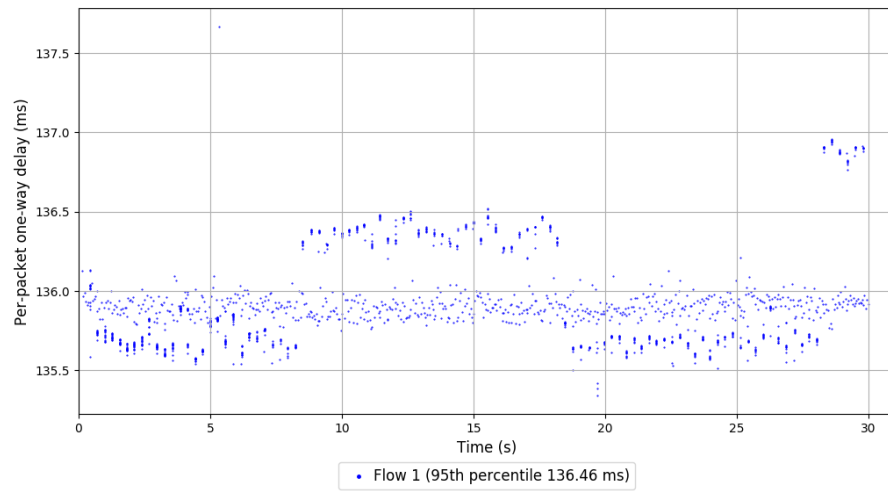
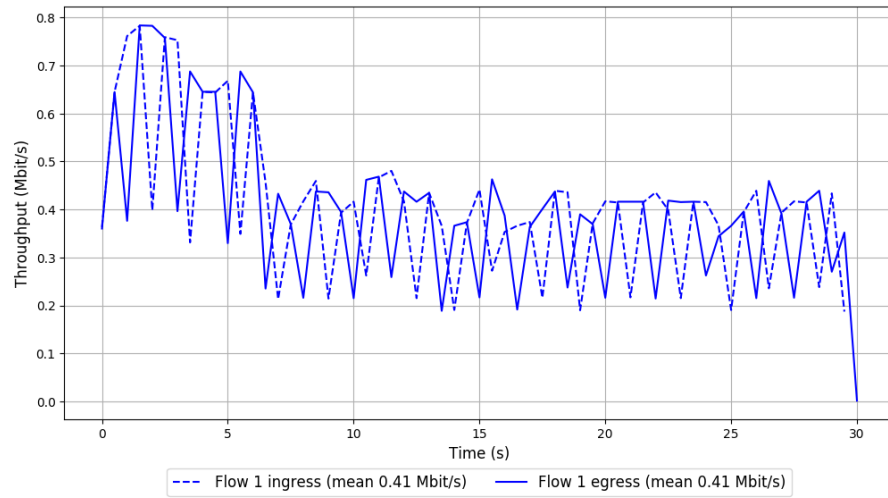
-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.457 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-03-21 01:18:35

End at: 2018-03-21 01:19:05

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 136.160 ms

Loss rate: 0.00%

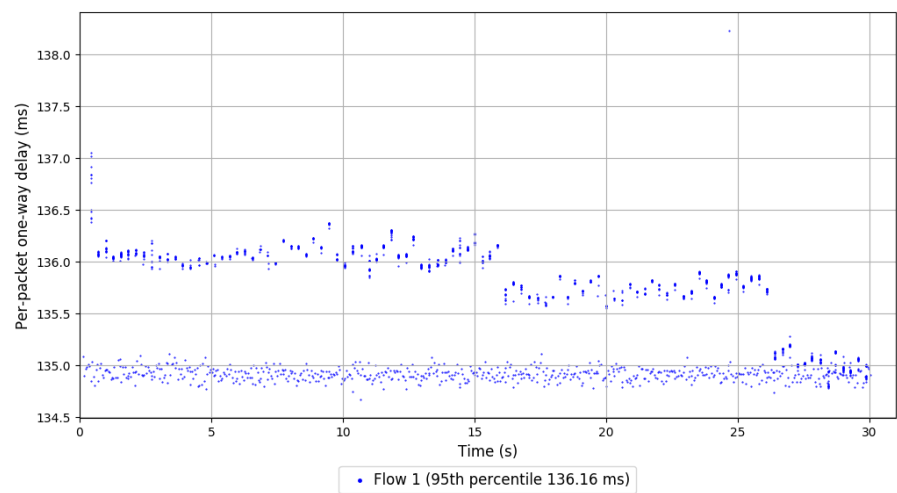
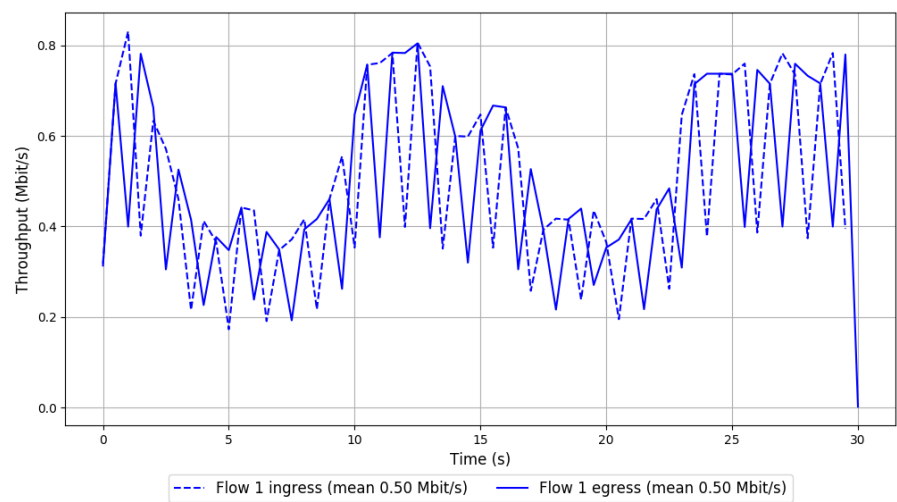
-- Flow 1:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 136.160 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-03-21 01:34:31

End at: 2018-03-21 01:35:01

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.648 ms

Loss rate: 0.00%

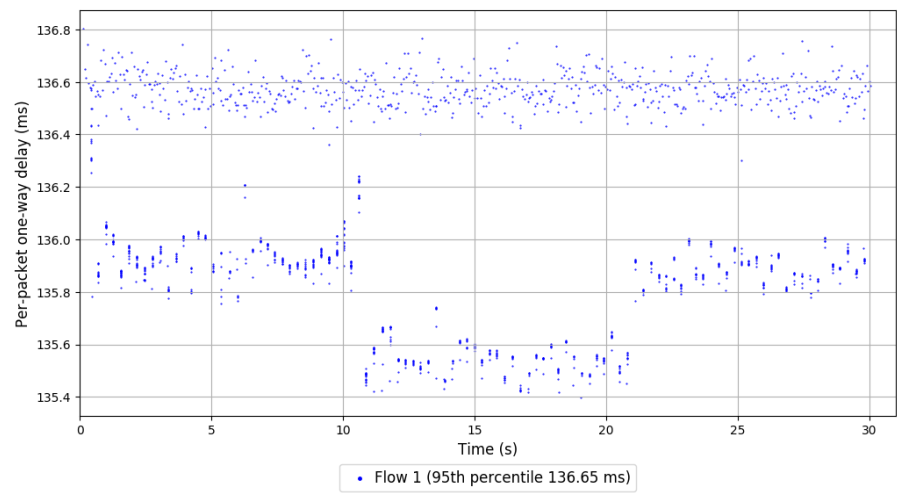
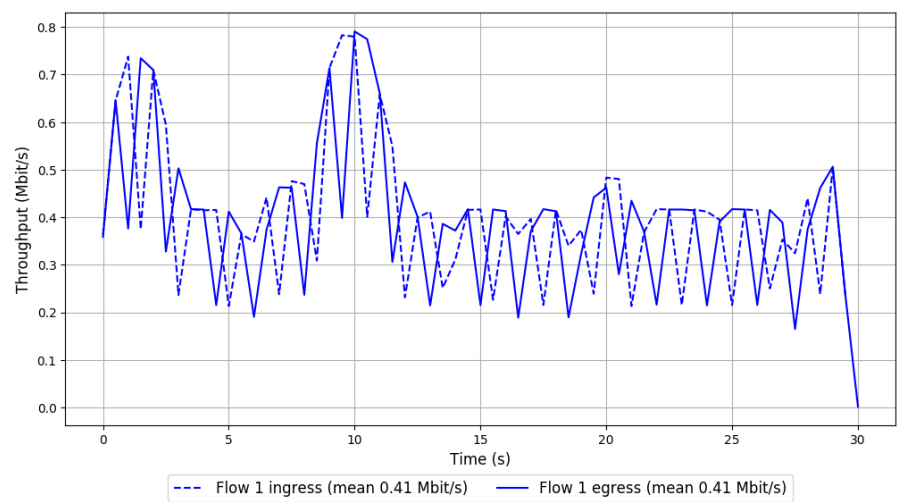
-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.648 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-03-21 01:50:47

End at: 2018-03-21 01:51:17

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

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

Loss rate: 0.00%

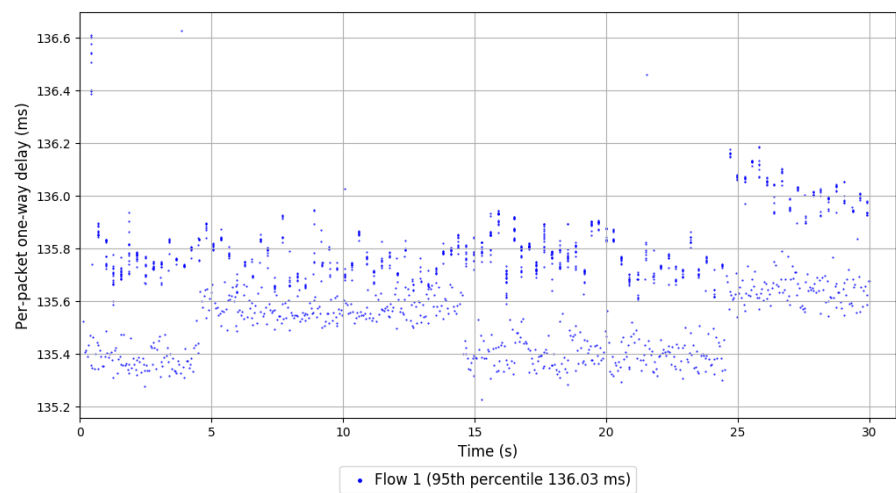
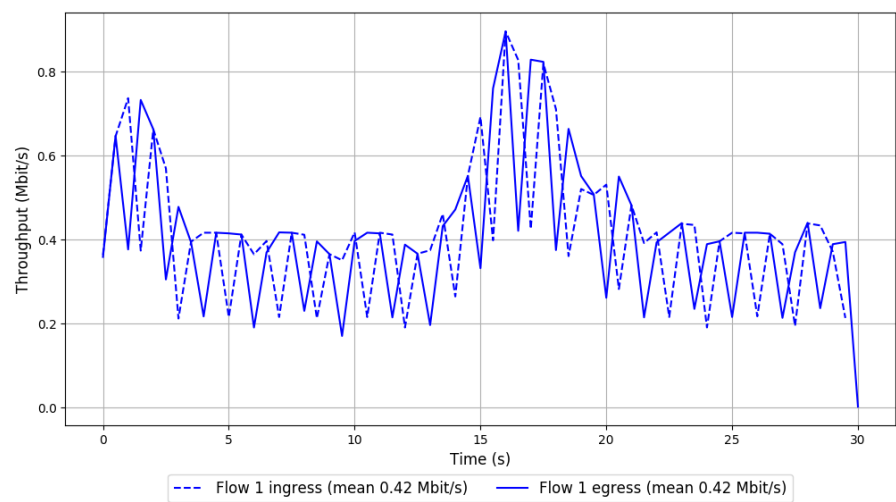
-- Flow 1:

Average throughput: 0.42 Mbit/s

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

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-03-21 02:06:41

End at: 2018-03-21 02:07:11

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 135.740 ms

Loss rate: 0.00%

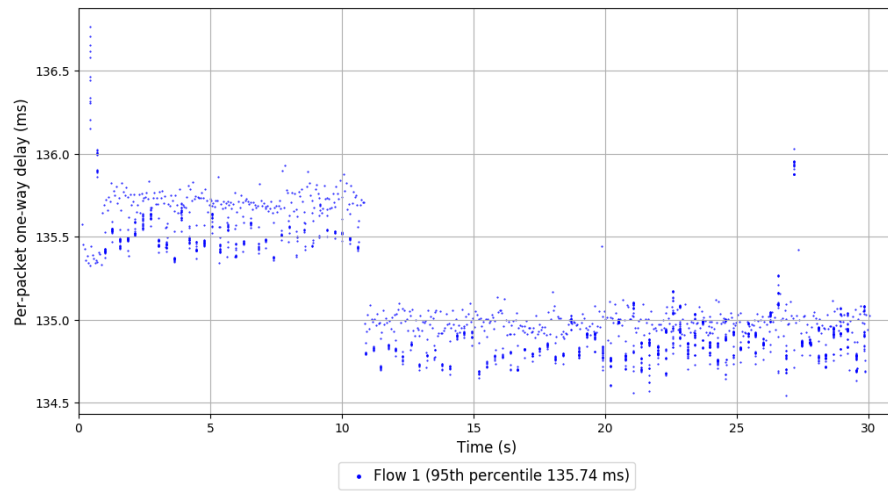
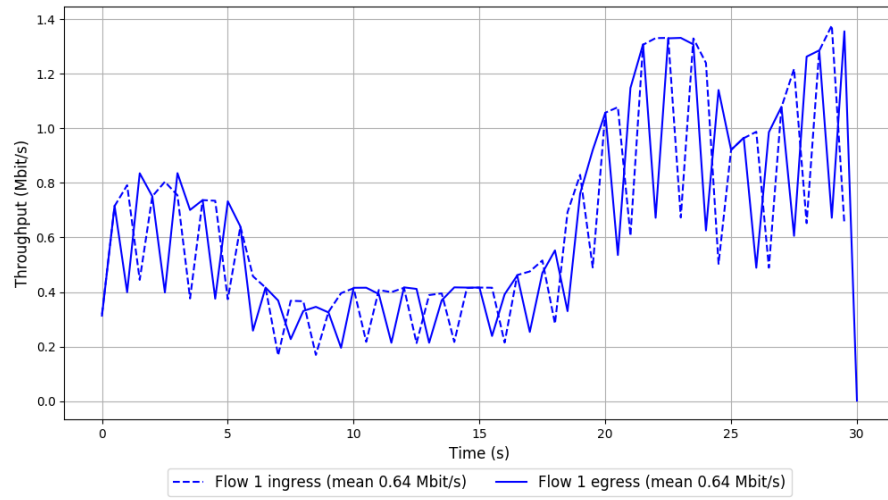
-- Flow 1:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 135.740 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-03-21 02:22:34

End at: 2018-03-21 02:23:04

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.989 ms

Loss rate: 0.00%

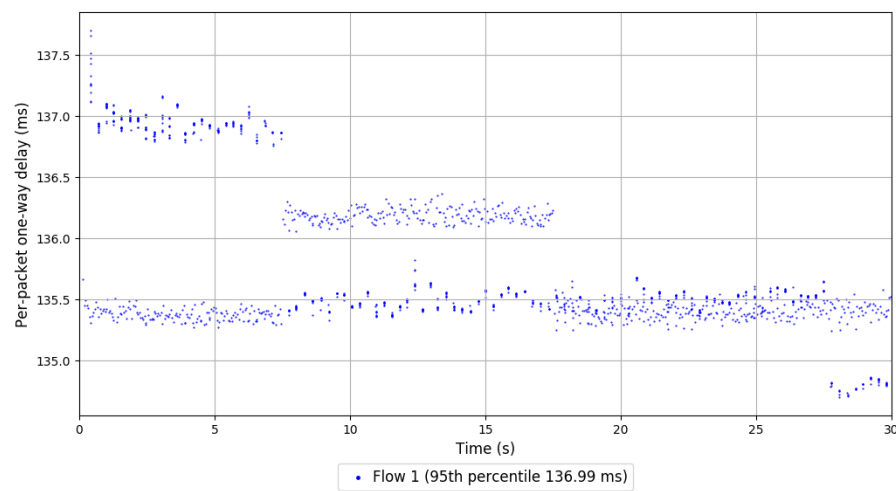
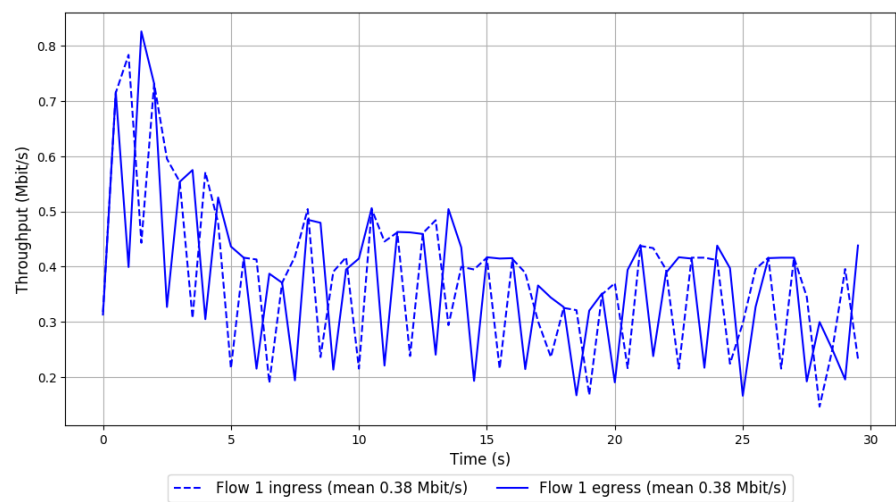
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.989 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-03-21 02:38:49

End at: 2018-03-21 02:39:19

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.934 ms

Loss rate: 0.00%

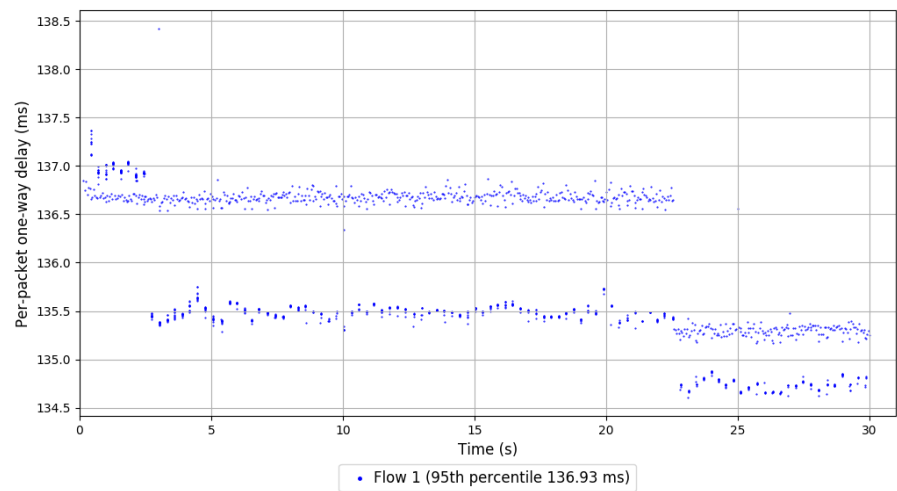
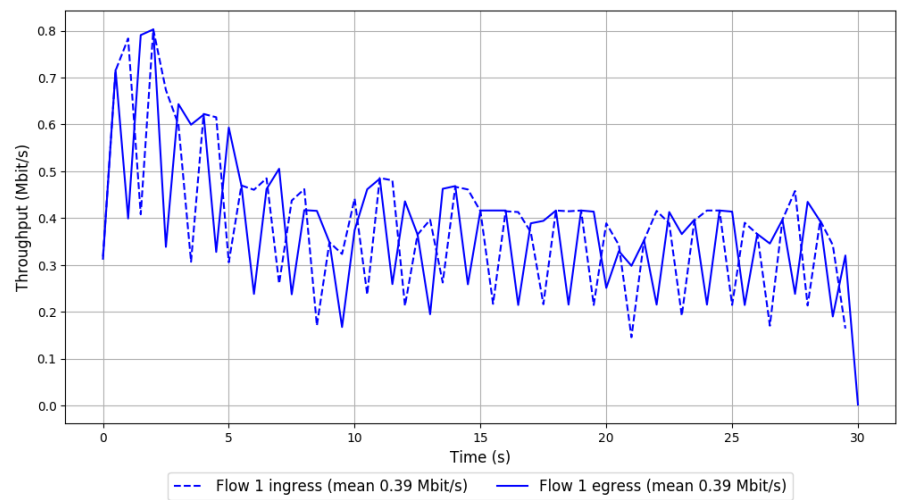
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.934 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

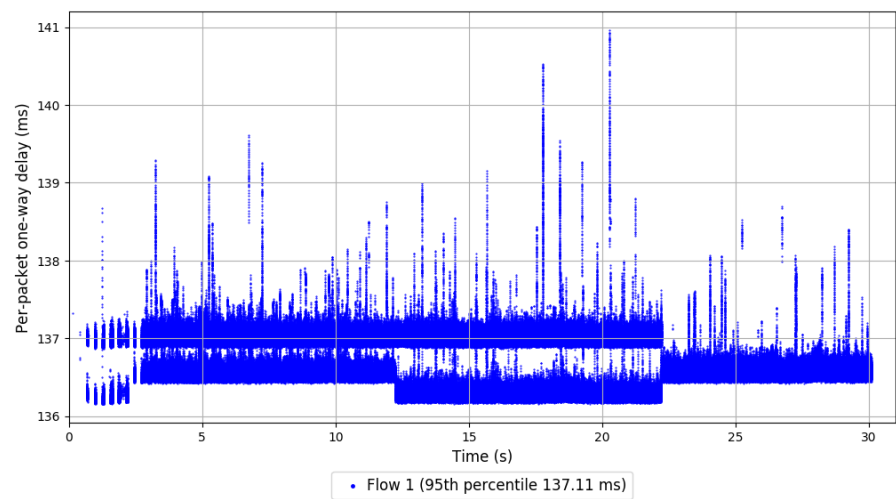
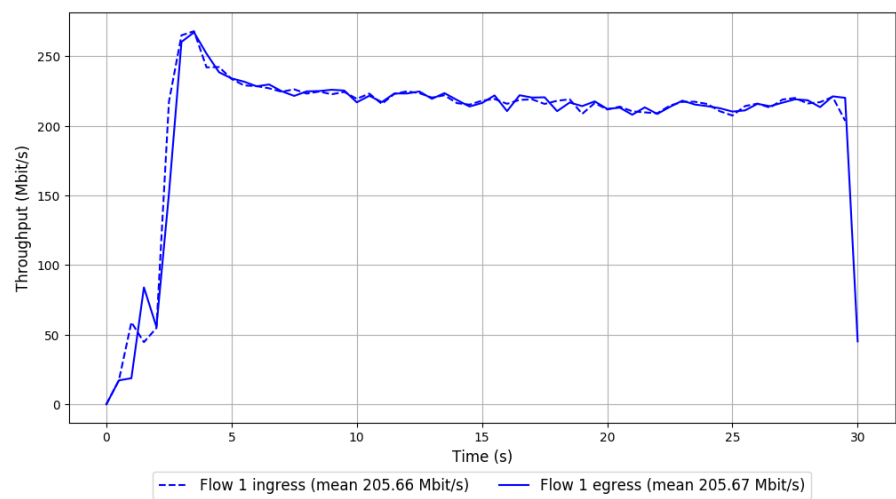


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-03-21 00:15:19
End at: 2018-03-21 00:15:49

# Below is generated by plot.py at 2018-03-21 04:21:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 205.67 Mbit/s
95th percentile per-packet one-way delay: 137.107 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 205.67 Mbit/s
95th percentile per-packet one-way delay: 137.107 ms
Loss rate: 0.00%
```

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

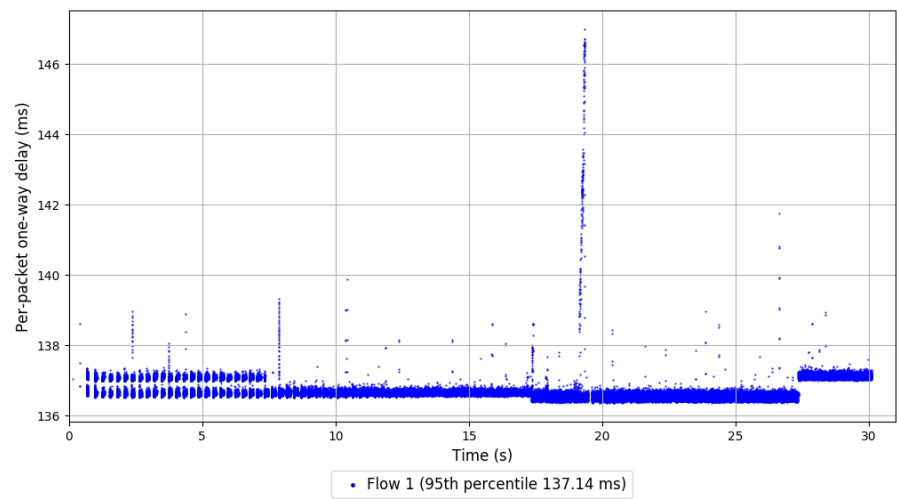
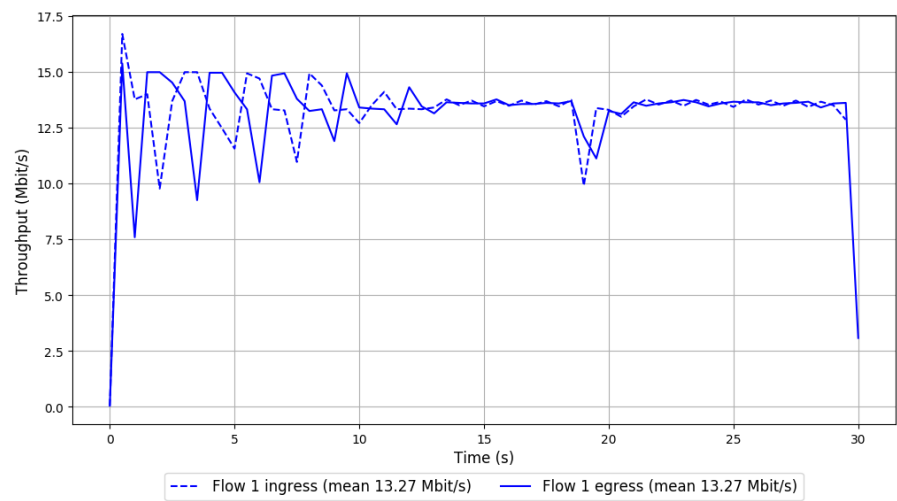


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-03-21 00:31:44
End at: 2018-03-21 00:32:14

# Below is generated by plot.py at 2018-03-21 04:21:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.27 Mbit/s
95th percentile per-packet one-way delay: 137.140 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.27 Mbit/s
95th percentile per-packet one-way delay: 137.140 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-03-21 00:47:34

End at: 2018-03-21 00:48:04

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.98 Mbit/s

95th percentile per-packet one-way delay: 136.692 ms

Loss rate: 0.00%

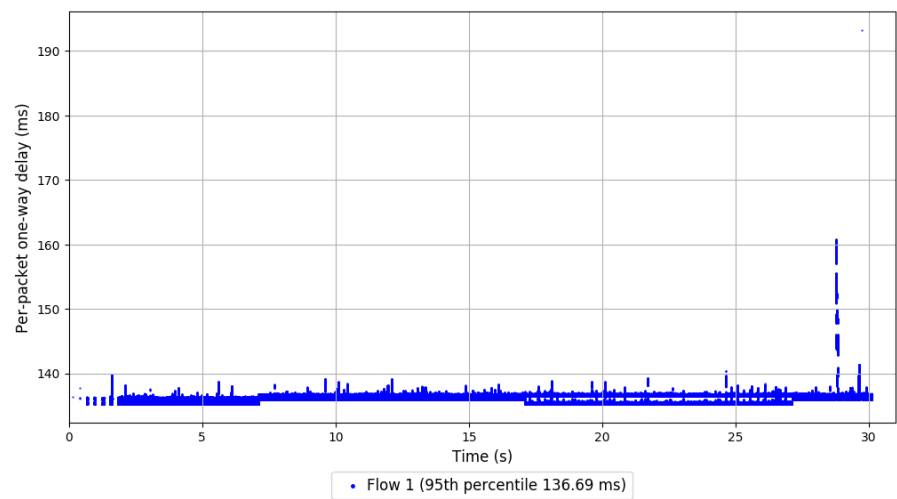
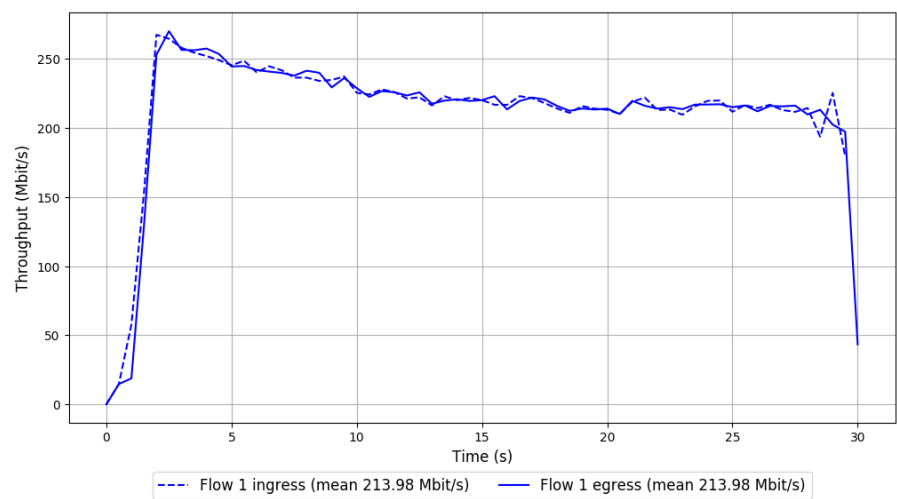
-- Flow 1:

Average throughput: 213.98 Mbit/s

95th percentile per-packet one-way delay: 136.692 ms

Loss rate: 0.00%

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

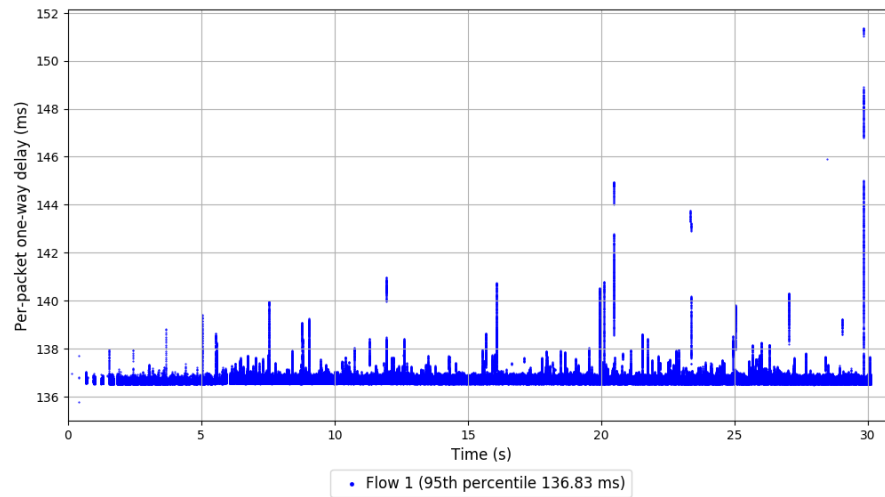
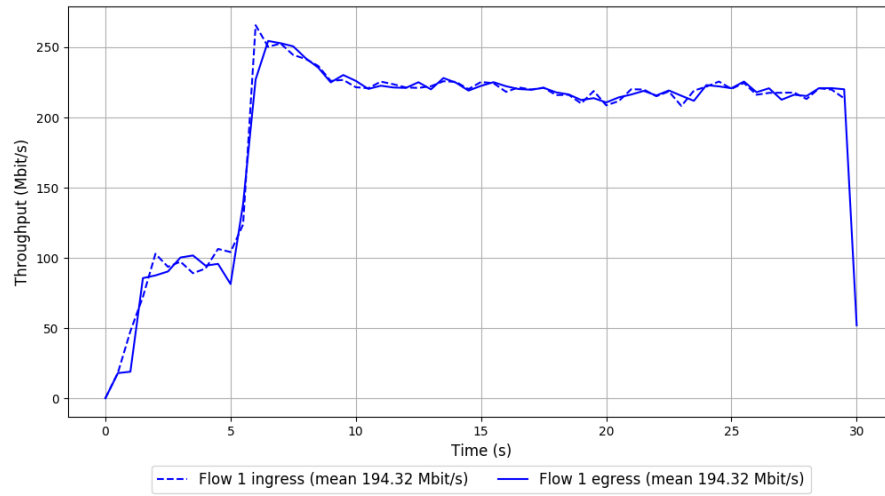


```
Run 4: Statistics of TaoVA-100x

Start at: 2018-03-21 01:03:51
End at: 2018-03-21 01:04:21

# Below is generated by plot.py at 2018-03-21 04:21:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 194.32 Mbit/s
95th percentile per-packet one-way delay: 136.829 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 194.32 Mbit/s
95th percentile per-packet one-way delay: 136.829 ms
Loss rate: 0.00%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-03-21 01:20:03

End at: 2018-03-21 01:20:33

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.42 Mbit/s

95th percentile per-packet one-way delay: 135.877 ms

Loss rate: 0.00%

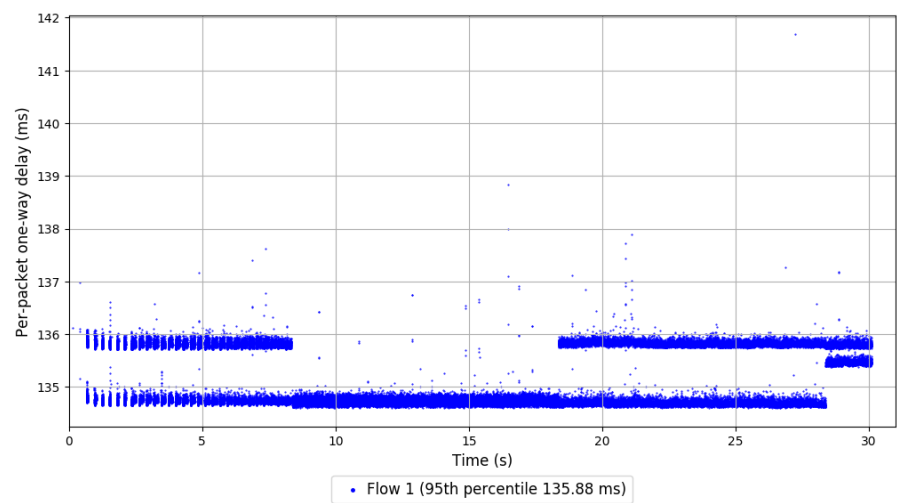
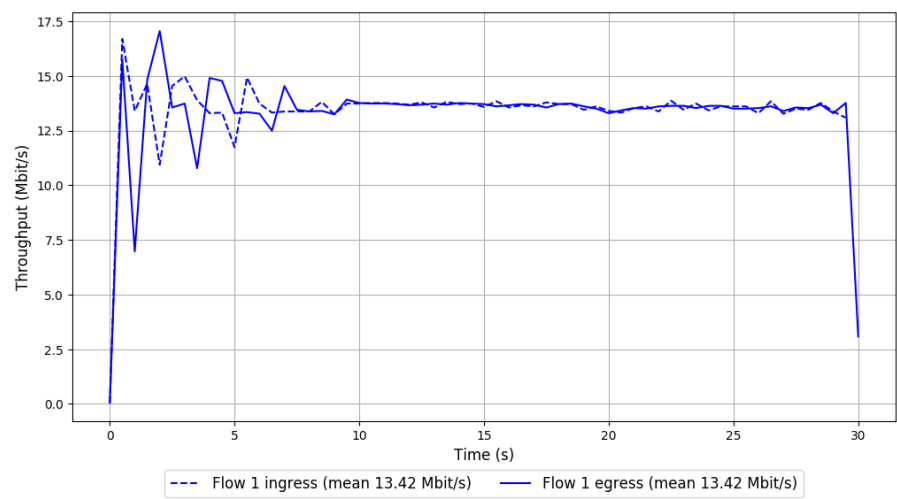
-- Flow 1:

Average throughput: 13.42 Mbit/s

95th percentile per-packet one-way delay: 135.877 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-03-21 01:35:58

End at: 2018-03-21 01:36:28

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.37 Mbit/s

95th percentile per-packet one-way delay: 135.678 ms

Loss rate: 0.00%

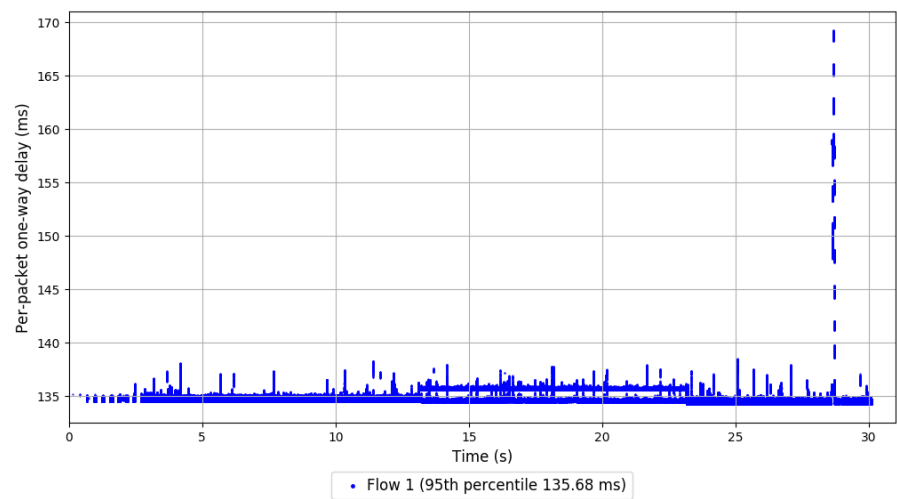
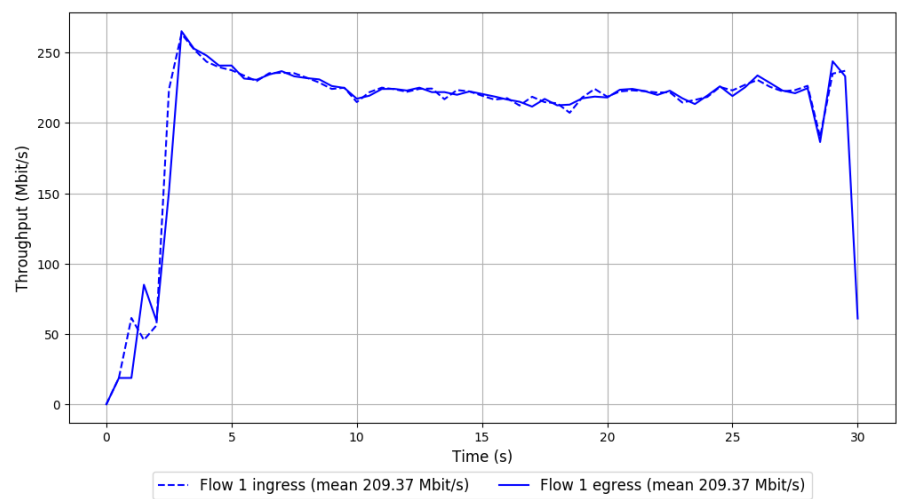
-- Flow 1:

Average throughput: 209.37 Mbit/s

95th percentile per-packet one-way delay: 135.678 ms

Loss rate: 0.00%

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

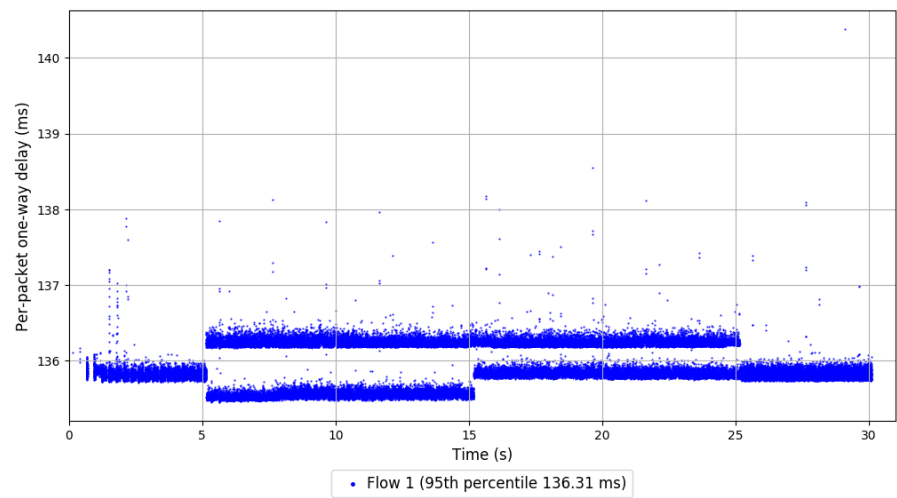
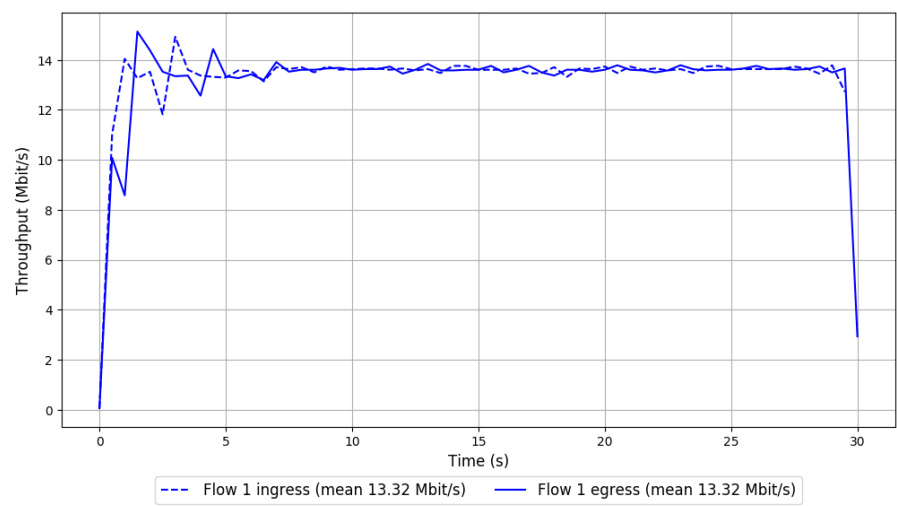


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-03-21 01:52:16
End at: 2018-03-21 01:52:46

# Below is generated by plot.py at 2018-03-21 04:21:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.32 Mbit/s
95th percentile per-packet one-way delay: 136.305 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.32 Mbit/s
95th percentile per-packet one-way delay: 136.305 ms
Loss rate: 0.00%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-03-21 02:08:09

End at: 2018-03-21 02:08:39

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.38 Mbit/s

95th percentile per-packet one-way delay: 135.782 ms

Loss rate: 0.00%

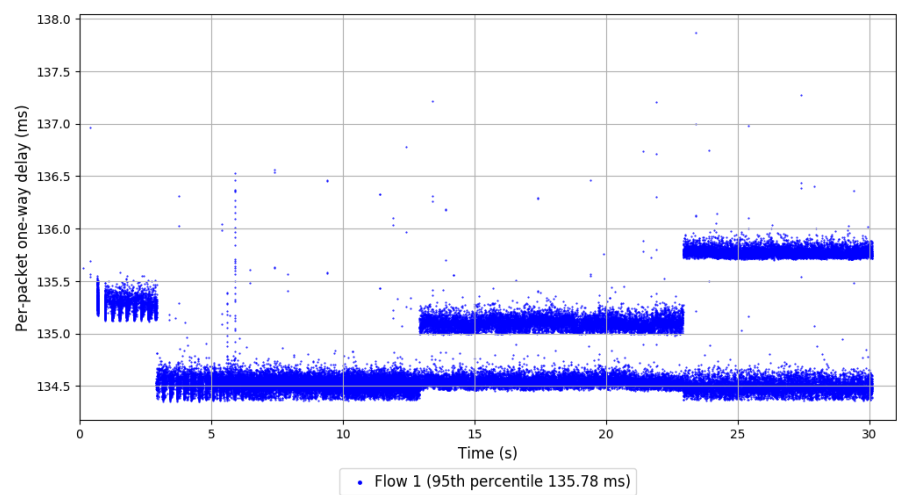
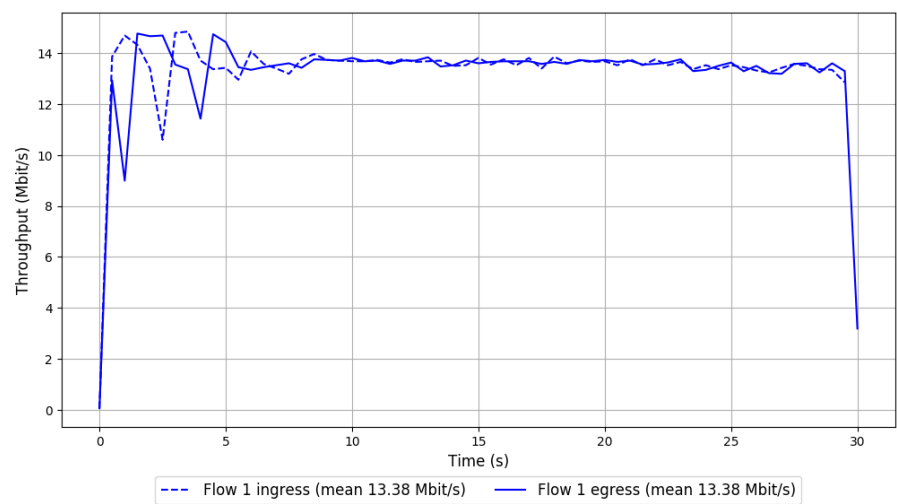
-- Flow 1:

Average throughput: 13.38 Mbit/s

95th percentile per-packet one-way delay: 135.782 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-03-21 02:24:02

End at: 2018-03-21 02:24:32

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.78 Mbit/s

95th percentile per-packet one-way delay: 136.815 ms

Loss rate: 0.00%

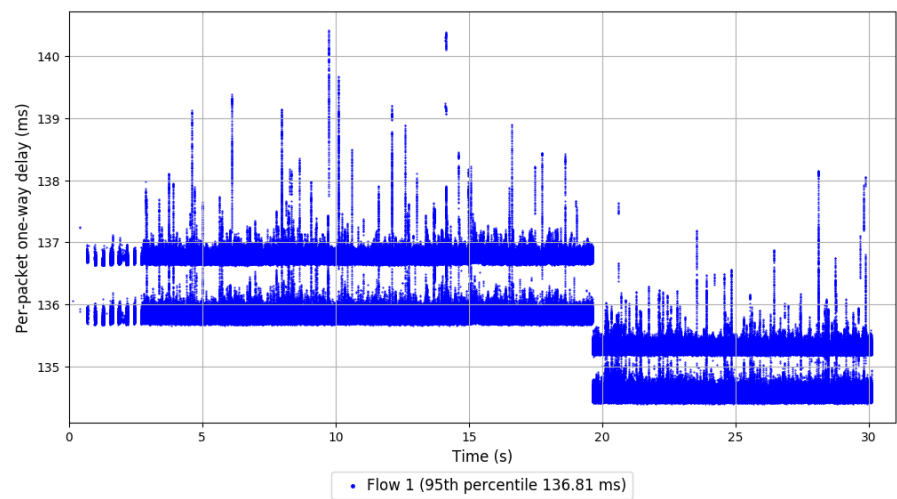
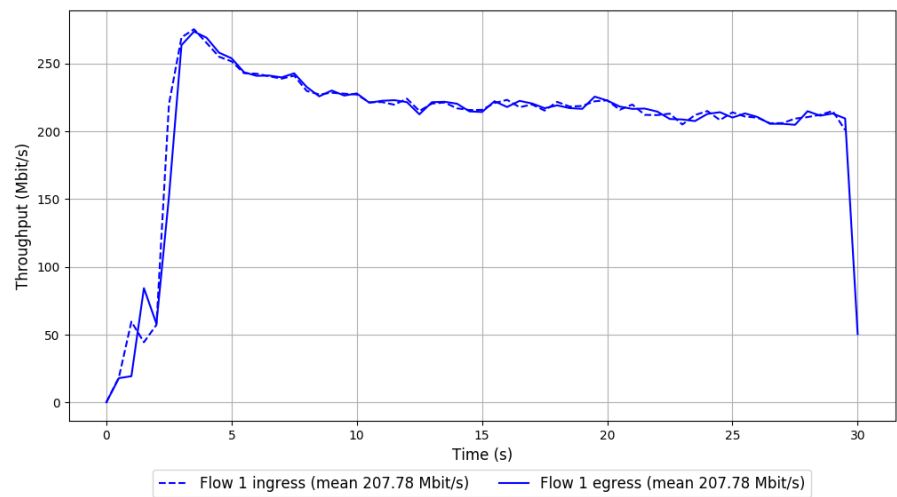
-- Flow 1:

Average throughput: 207.78 Mbit/s

95th percentile per-packet one-way delay: 136.815 ms

Loss rate: 0.00%

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

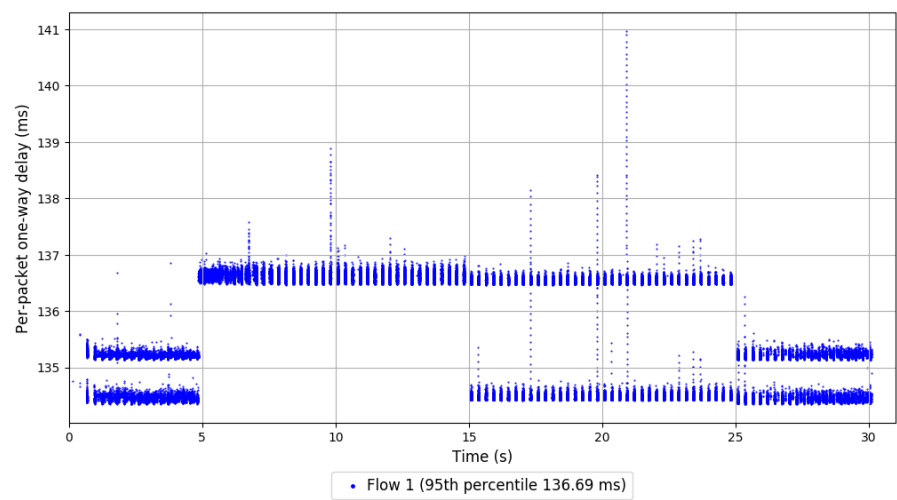
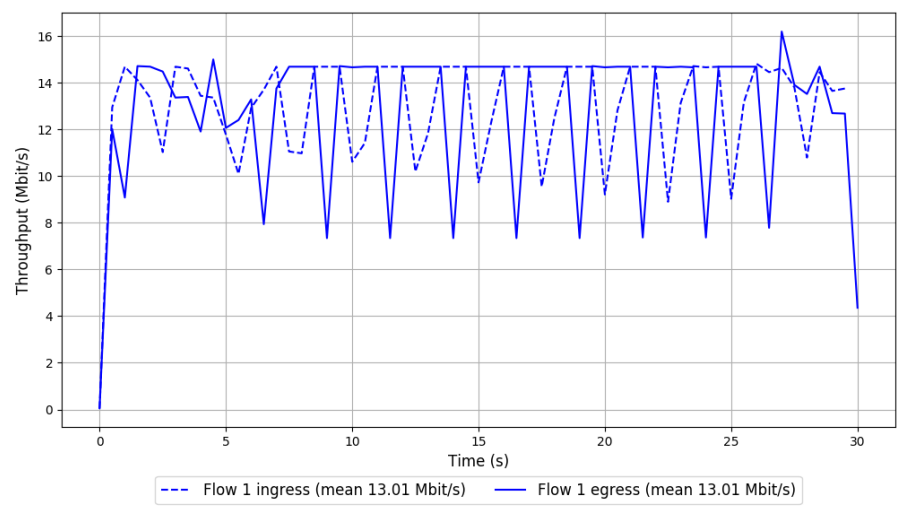


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-03-21 02:40:17
End at: 2018-03-21 02:40:47

# Below is generated by plot.py at 2018-03-21 04:21:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.01 Mbit/s
95th percentile per-packet one-way delay: 136.692 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.01 Mbit/s
95th percentile per-packet one-way delay: 136.692 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-03-21 00:08:18

End at: 2018-03-21 00:08:48

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.59 Mbit/s

95th percentile per-packet one-way delay: 138.746 ms

Loss rate: 0.00%

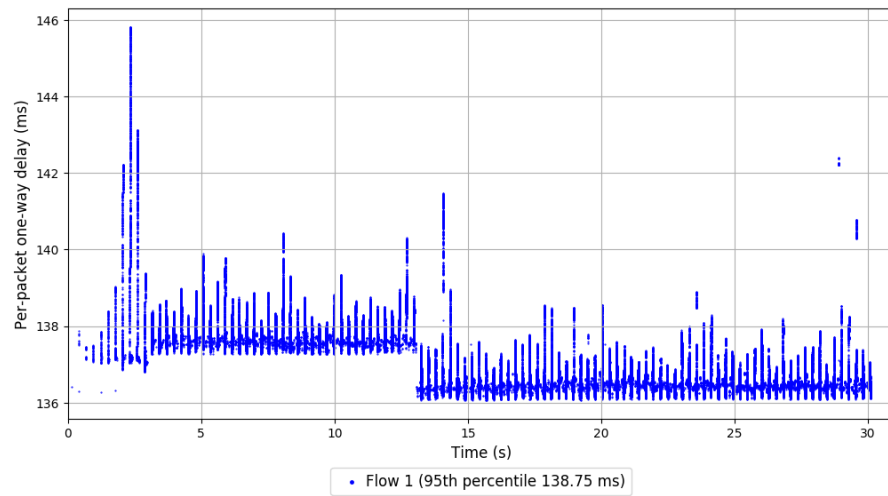
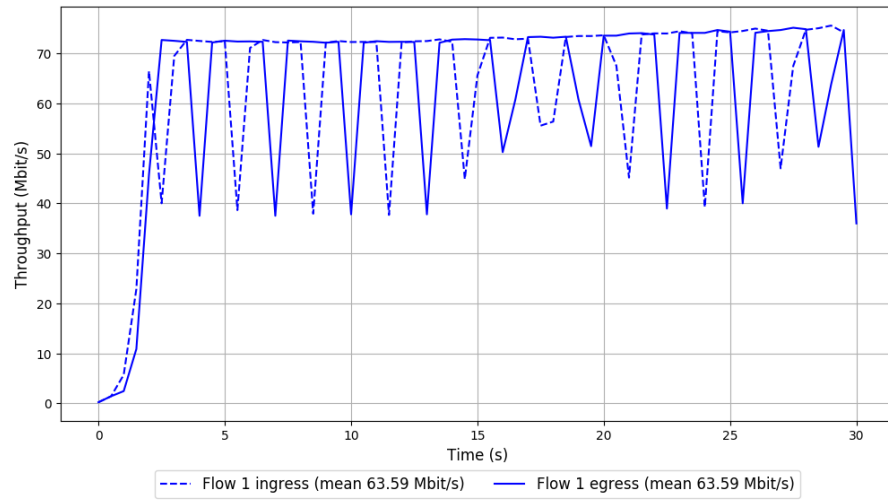
-- Flow 1:

Average throughput: 63.59 Mbit/s

95th percentile per-packet one-way delay: 138.746 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-03-21 00:24:33

End at: 2018-03-21 00:25:03

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.83 Mbit/s

95th percentile per-packet one-way delay: 138.979 ms

Loss rate: 0.00%

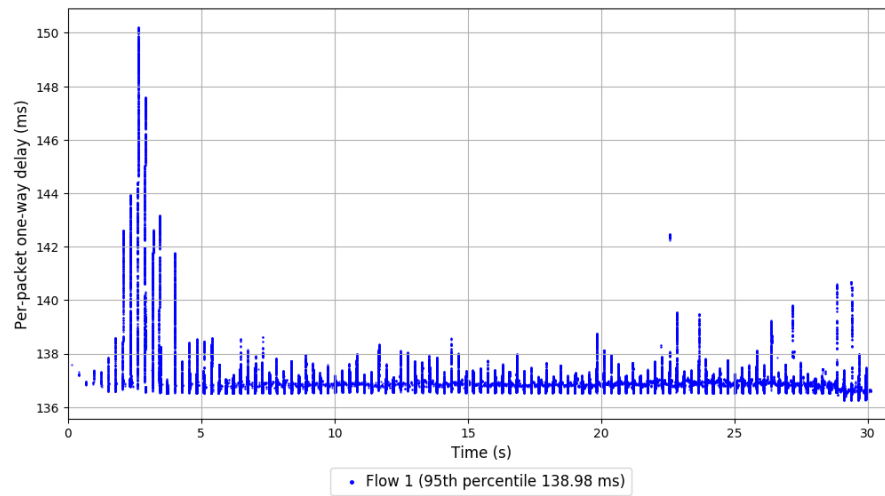
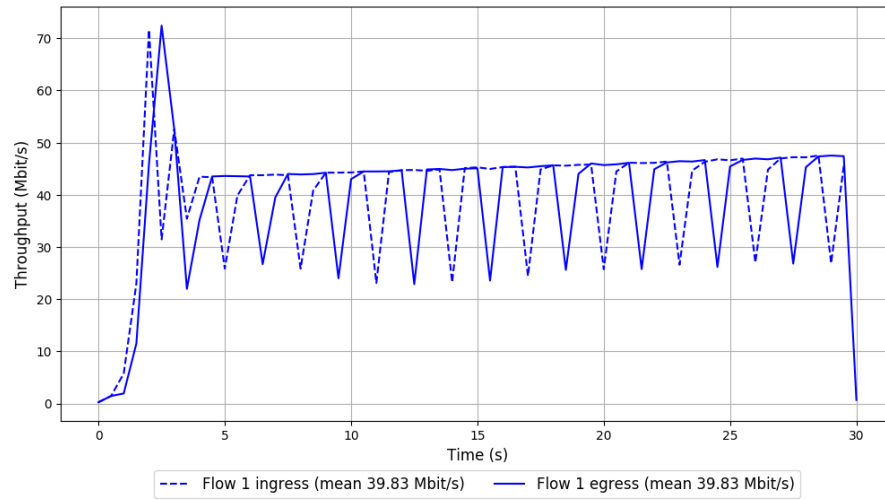
-- Flow 1:

Average throughput: 39.83 Mbit/s

95th percentile per-packet one-way delay: 138.979 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-03-21 00:40:35

End at: 2018-03-21 00:41:05

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.49 Mbit/s

95th percentile per-packet one-way delay: 137.901 ms

Loss rate: 0.00%

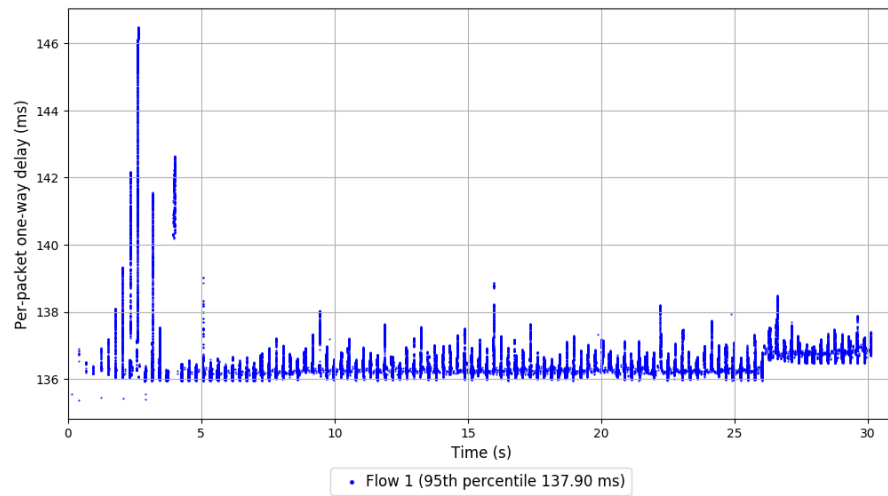
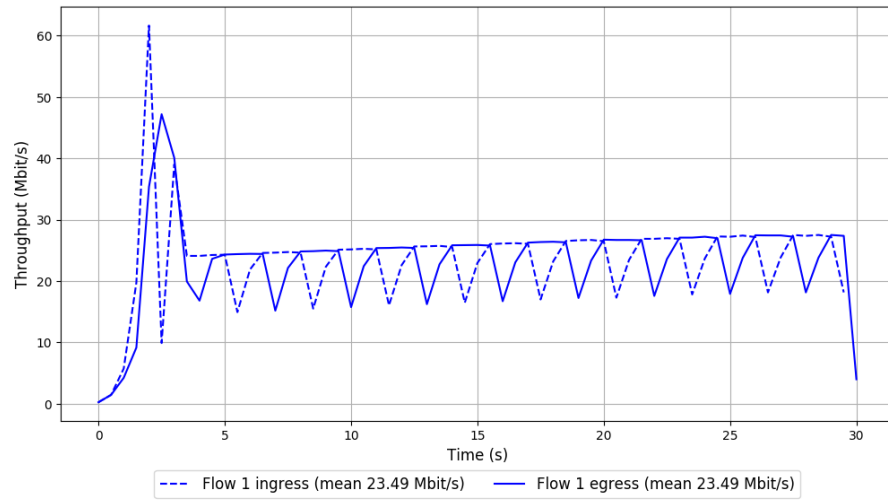
-- Flow 1:

Average throughput: 23.49 Mbit/s

95th percentile per-packet one-way delay: 137.901 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-03-21 00:56:43

End at: 2018-03-21 00:57:13

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.48 Mbit/s

95th percentile per-packet one-way delay: 137.211 ms

Loss rate: 0.00%

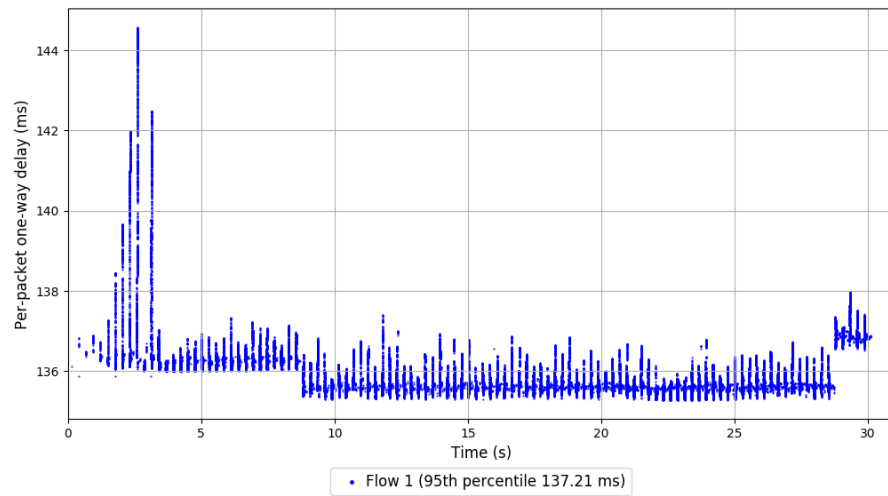
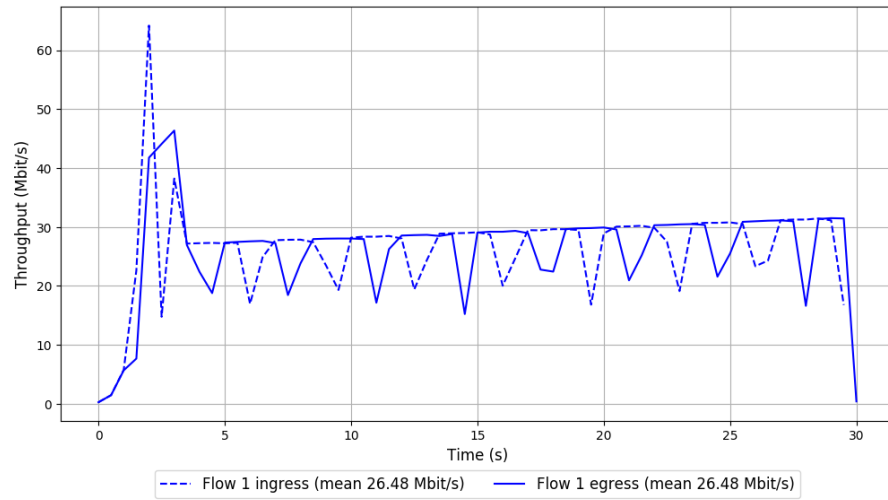
-- Flow 1:

Average throughput: 26.48 Mbit/s

95th percentile per-packet one-way delay: 137.211 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-03-21 01:12:56

End at: 2018-03-21 01:13:26

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.14 Mbit/s

95th percentile per-packet one-way delay: 138.214 ms

Loss rate: 0.00%

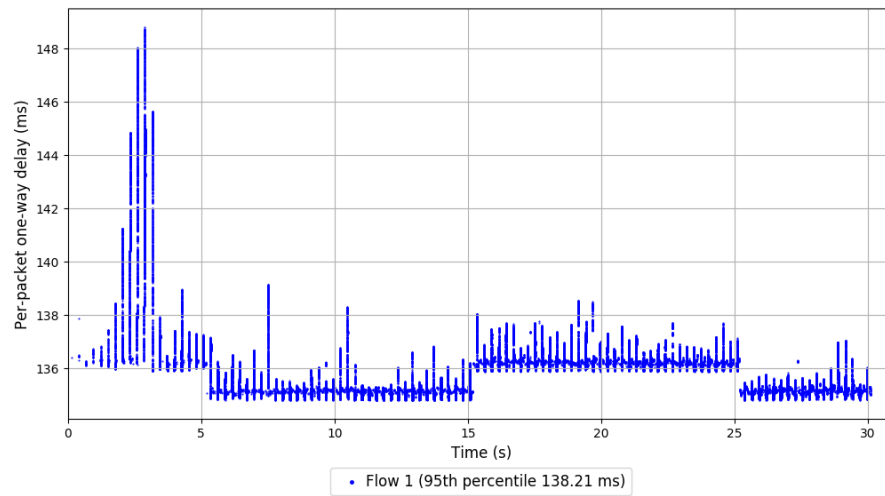
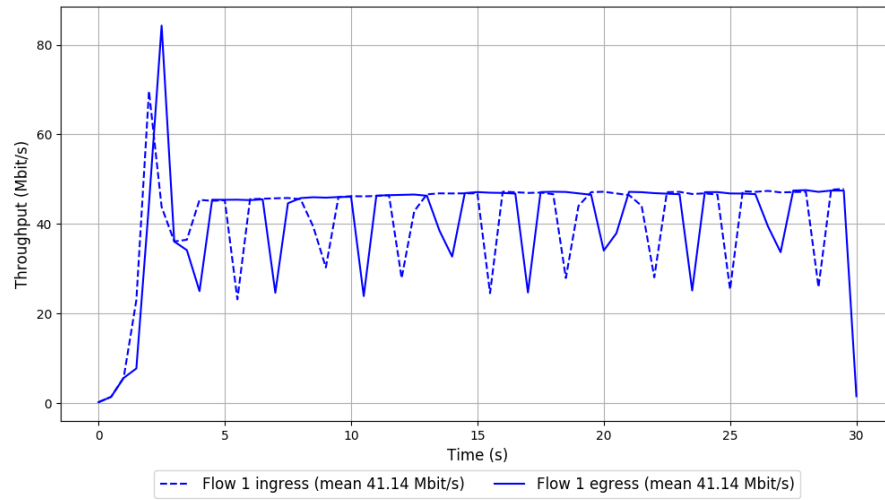
-- Flow 1:

Average throughput: 41.14 Mbit/s

95th percentile per-packet one-way delay: 138.214 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-03-21 01:28:51

End at: 2018-03-21 01:29:21

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.20 Mbit/s

95th percentile per-packet one-way delay: 136.830 ms

Loss rate: 0.00%

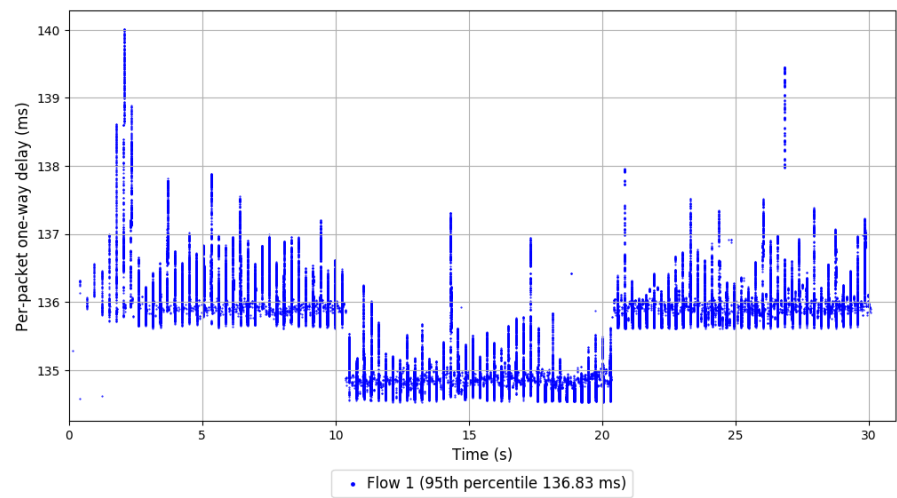
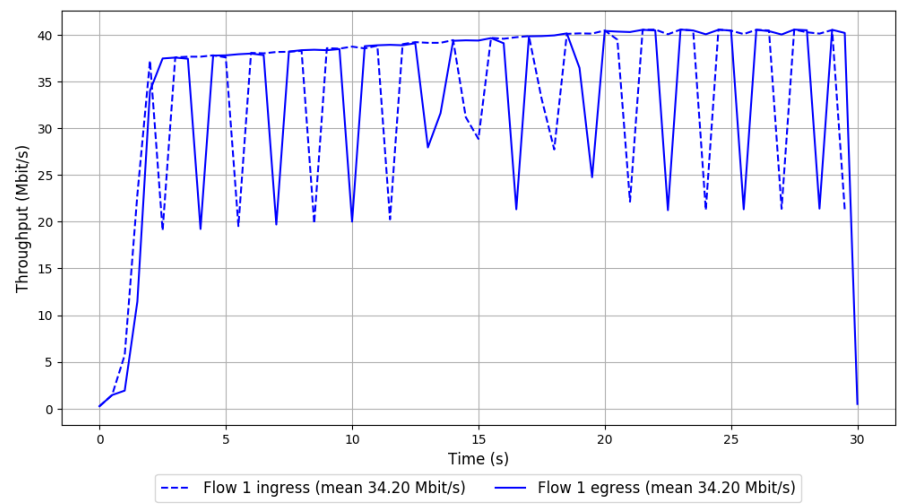
-- Flow 1:

Average throughput: 34.20 Mbit/s

95th percentile per-packet one-way delay: 136.830 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-03-21 01:45:11

End at: 2018-03-21 01:45:41

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.10 Mbit/s

95th percentile per-packet one-way delay: 138.200 ms

Loss rate: 0.00%

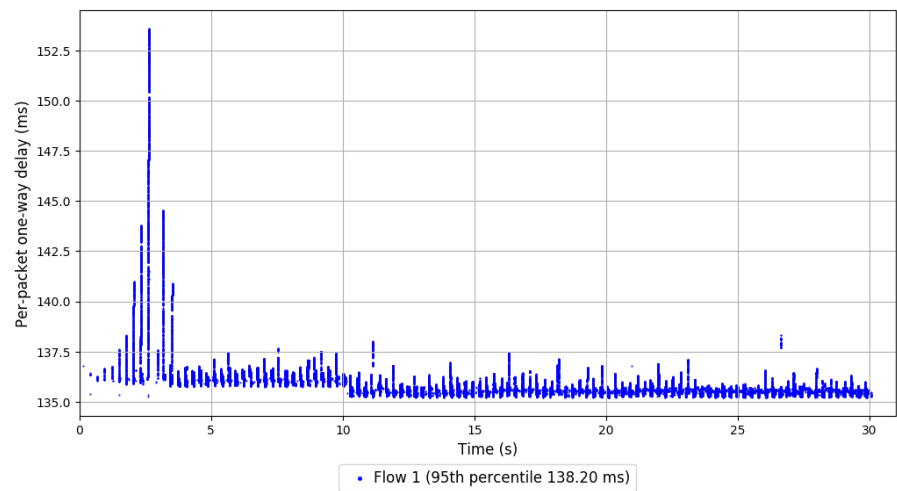
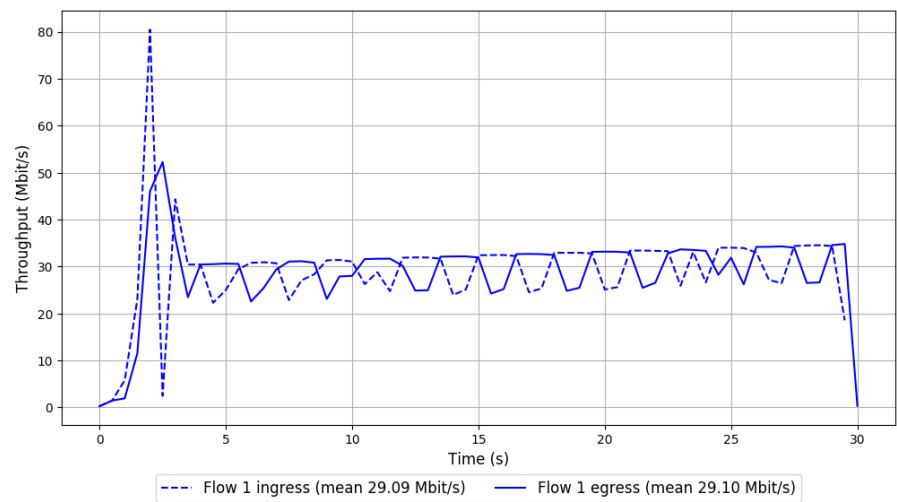
-- Flow 1:

Average throughput: 29.10 Mbit/s

95th percentile per-packet one-way delay: 138.200 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-03-21 02:01:00

End at: 2018-03-21 02:01:30

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.01 Mbit/s

95th percentile per-packet one-way delay: 137.990 ms

Loss rate: 0.00%

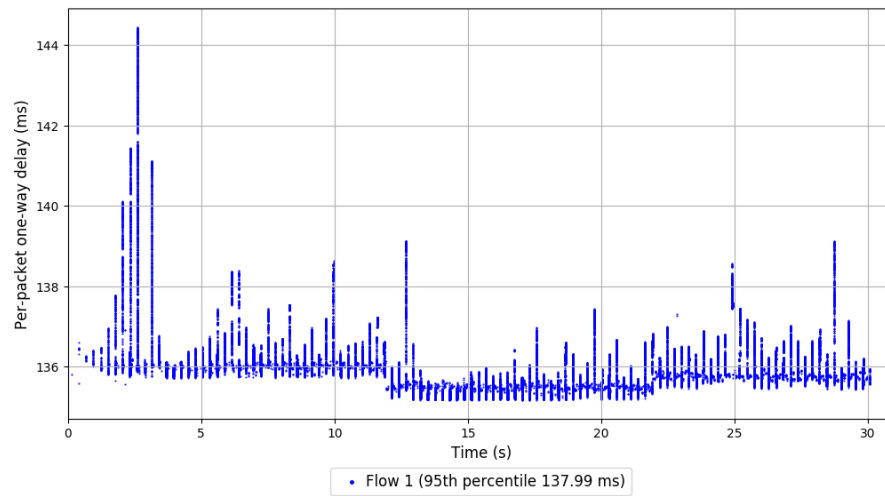
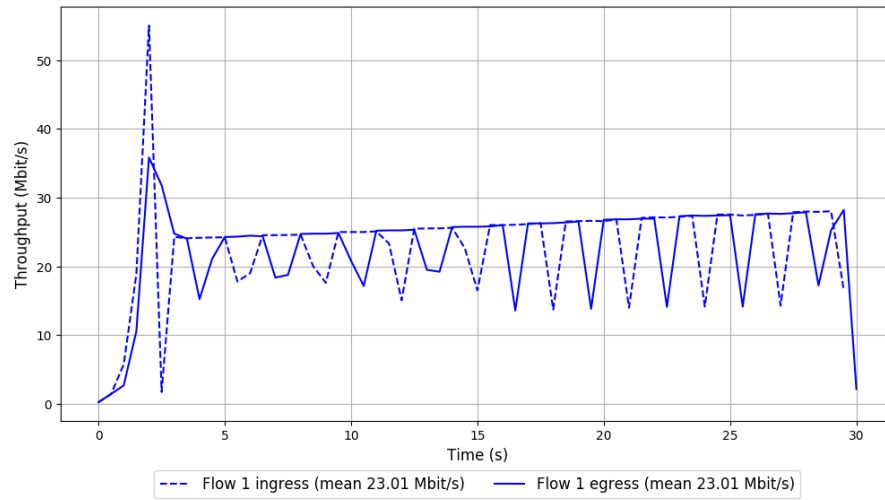
-- Flow 1:

Average throughput: 23.01 Mbit/s

95th percentile per-packet one-way delay: 137.990 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-03-21 02:16:59

End at: 2018-03-21 02:17:29

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.60 Mbit/s

95th percentile per-packet one-way delay: 137.805 ms

Loss rate: 0.00%

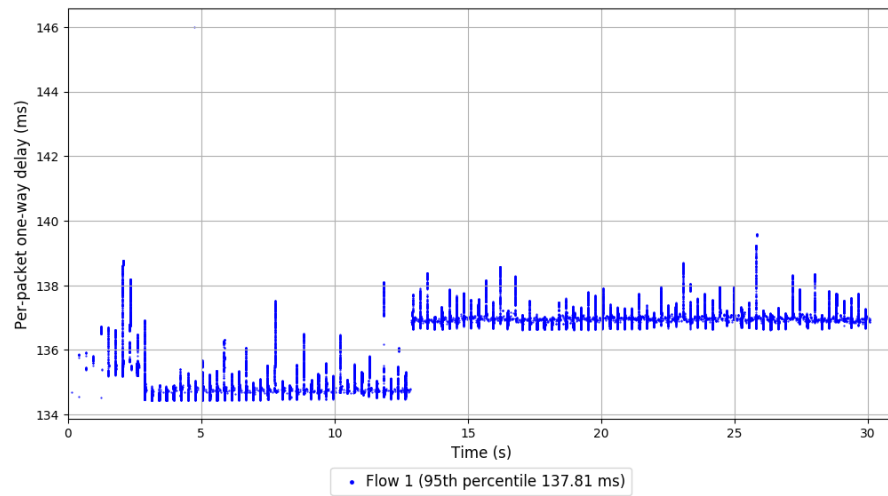
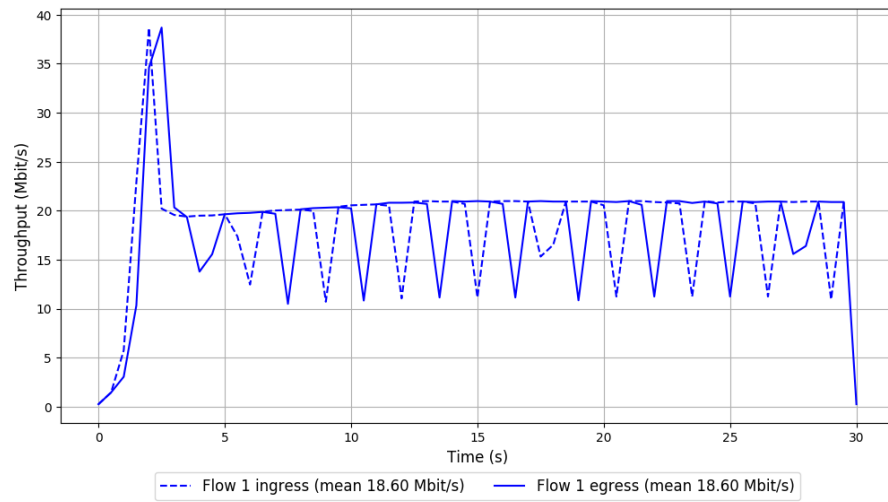
-- Flow 1:

Average throughput: 18.60 Mbit/s

95th percentile per-packet one-way delay: 137.805 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-03-21 02:33:17

End at: 2018-03-21 02:33:47

Below is generated by plot.py at 2018-03-21 04:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.37 Mbit/s

95th percentile per-packet one-way delay: 136.767 ms

Loss rate: 0.00%

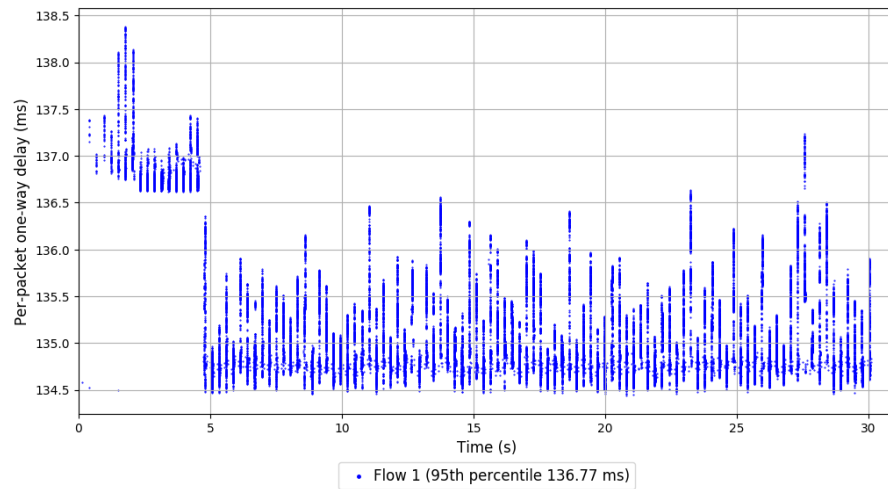
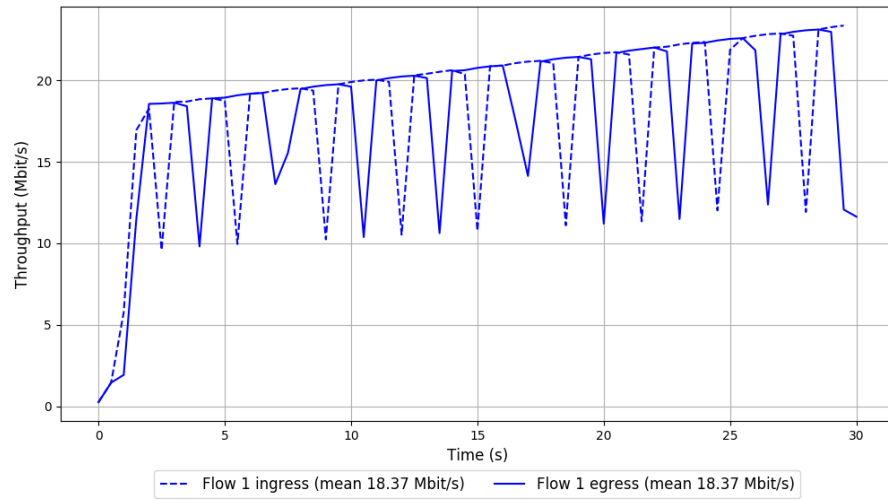
-- Flow 1:

Average throughput: 18.37 Mbit/s

95th percentile per-packet one-way delay: 136.767 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

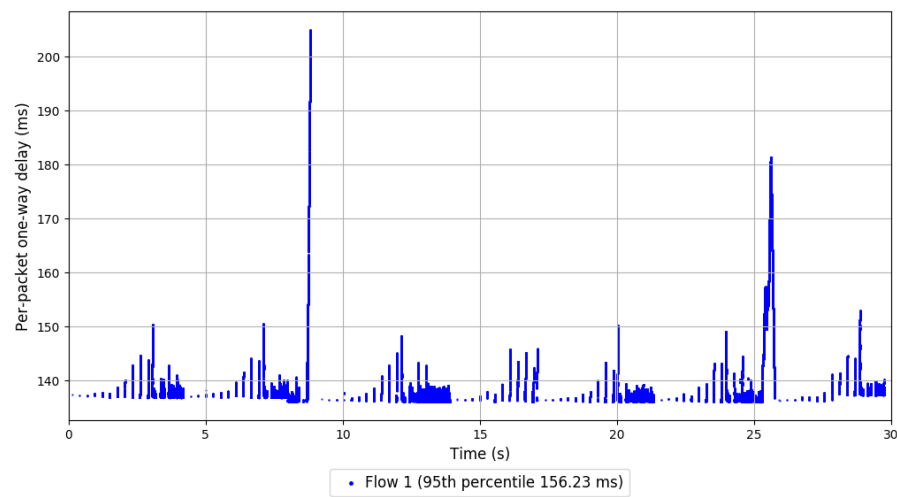
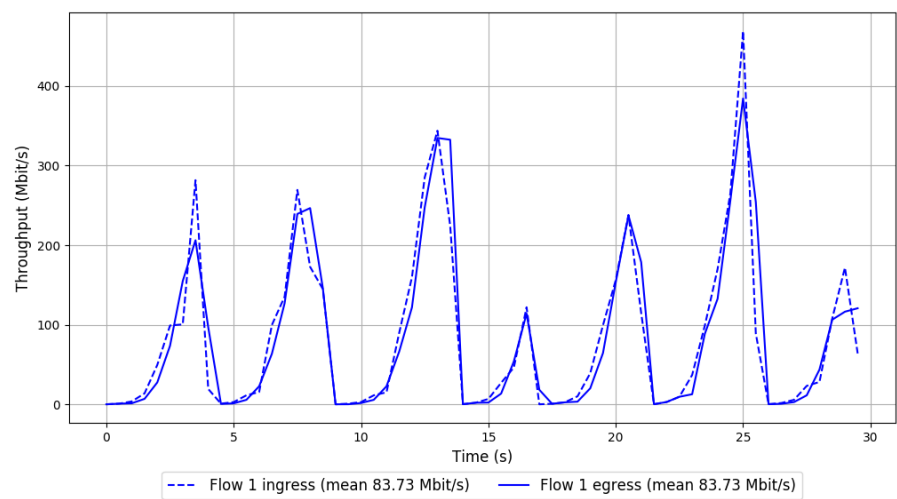


```
Run 1: Statistics of Verus

Start at: 2018-03-21 00:10:23
End at: 2018-03-21 00:10:53

# Below is generated by plot.py at 2018-03-21 04:21:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.73 Mbit/s
95th percentile per-packet one-way delay: 156.233 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 83.73 Mbit/s
95th percentile per-packet one-way delay: 156.233 ms
Loss rate: 0.00%
```

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-03-21 00:26:37

End at: 2018-03-21 00:27:07

Below is generated by plot.py at 2018-03-21 04:24:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.34 Mbit/s

95th percentile per-packet one-way delay: 245.760 ms

Loss rate: 0.66%

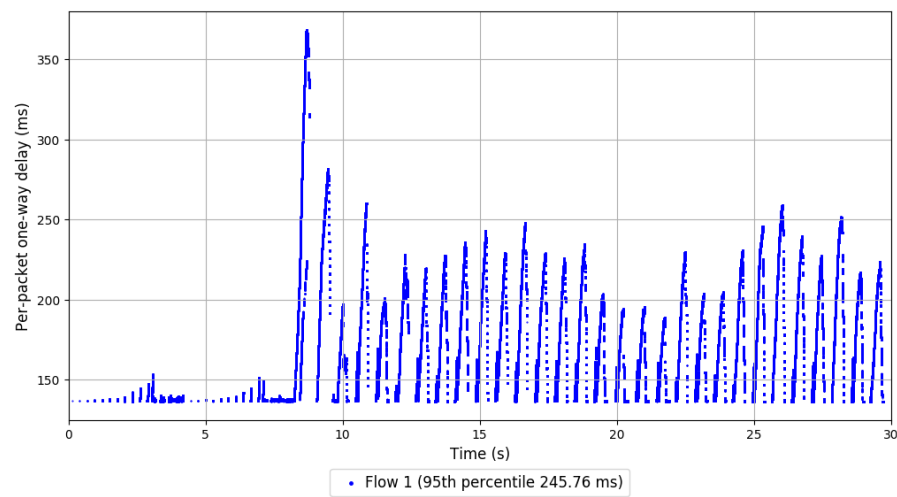
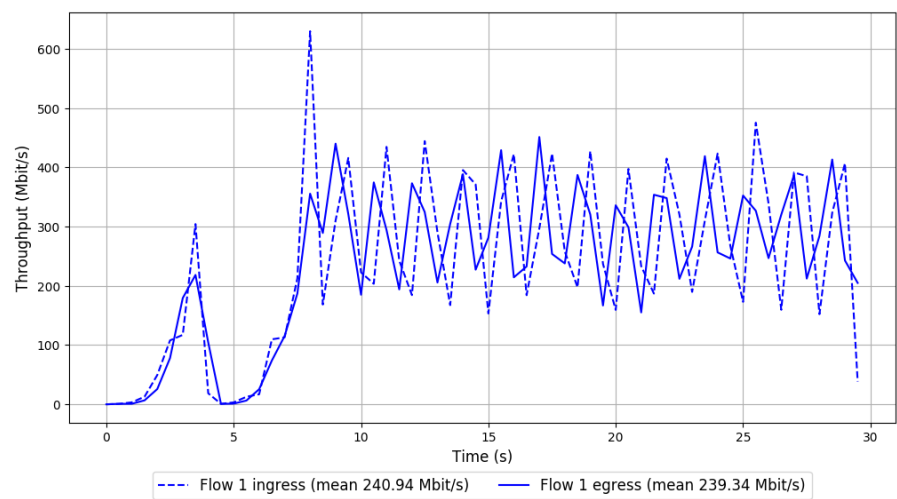
-- Flow 1:

Average throughput: 239.34 Mbit/s

95th percentile per-packet one-way delay: 245.760 ms

Loss rate: 0.66%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-03-21 00:42:38

End at: 2018-03-21 00:43:08

Below is generated by plot.py at 2018-03-21 04:24:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 113.30 Mbit/s

95th percentile per-packet one-way delay: 258.567 ms

Loss rate: 0.00%

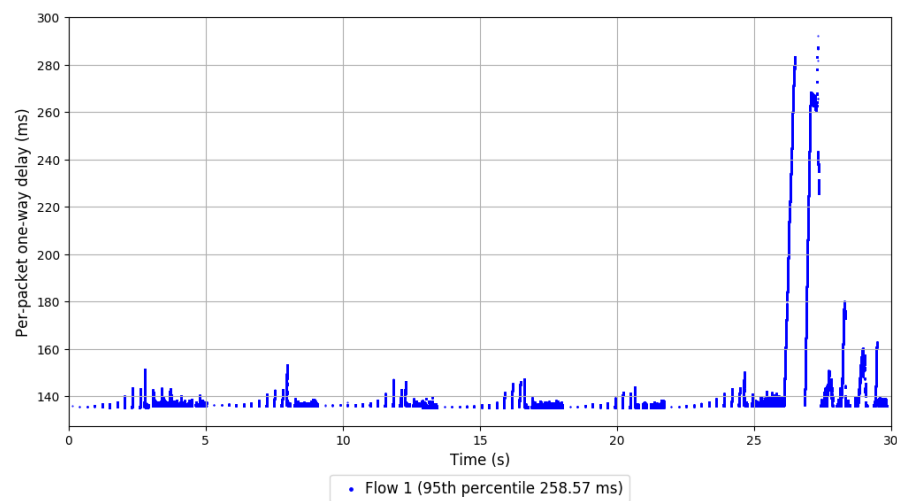
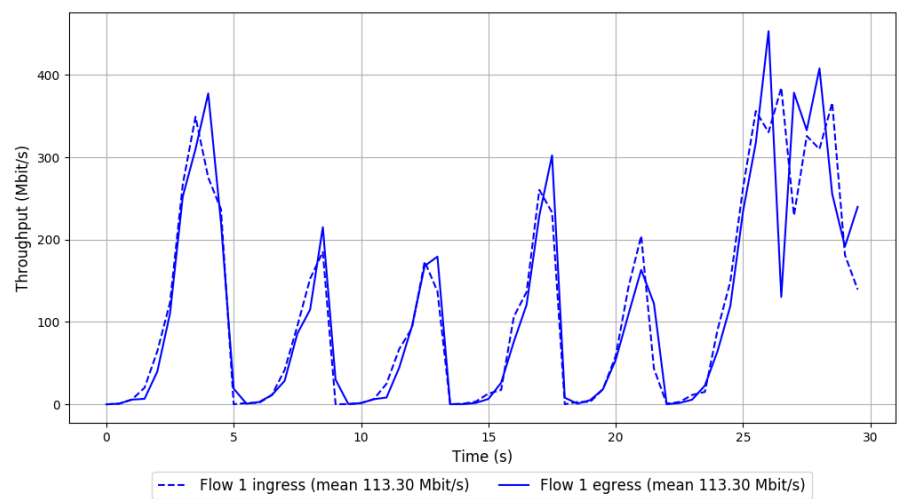
-- Flow 1:

Average throughput: 113.30 Mbit/s

95th percentile per-packet one-way delay: 258.567 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-03-21 00:58:46

End at: 2018-03-21 00:59:16

Below is generated by plot.py at 2018-03-21 04:24:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.50 Mbit/s

95th percentile per-packet one-way delay: 170.360 ms

Loss rate: 0.00%

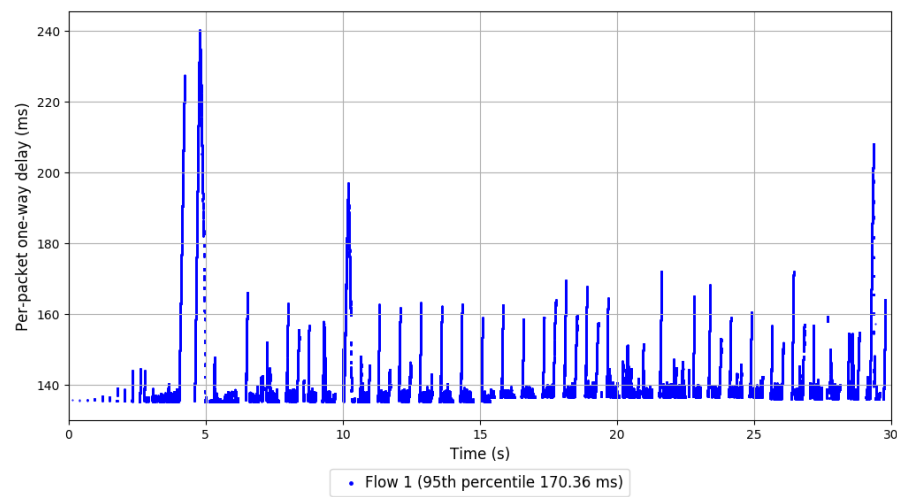
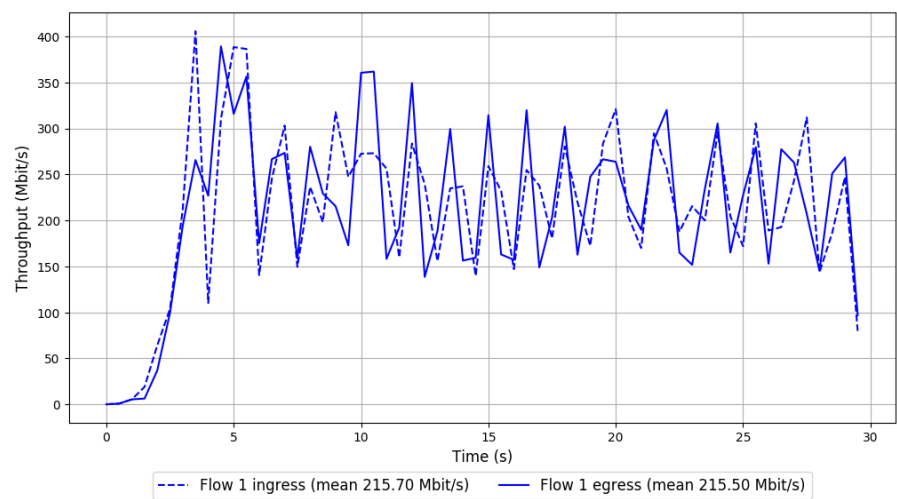
-- Flow 1:

Average throughput: 215.50 Mbit/s

95th percentile per-packet one-way delay: 170.360 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-03-21 01:14:59

End at: 2018-03-21 01:15:29

Below is generated by plot.py at 2018-03-21 04:24:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.18 Mbit/s

95th percentile per-packet one-way delay: 176.315 ms

Loss rate: 0.00%

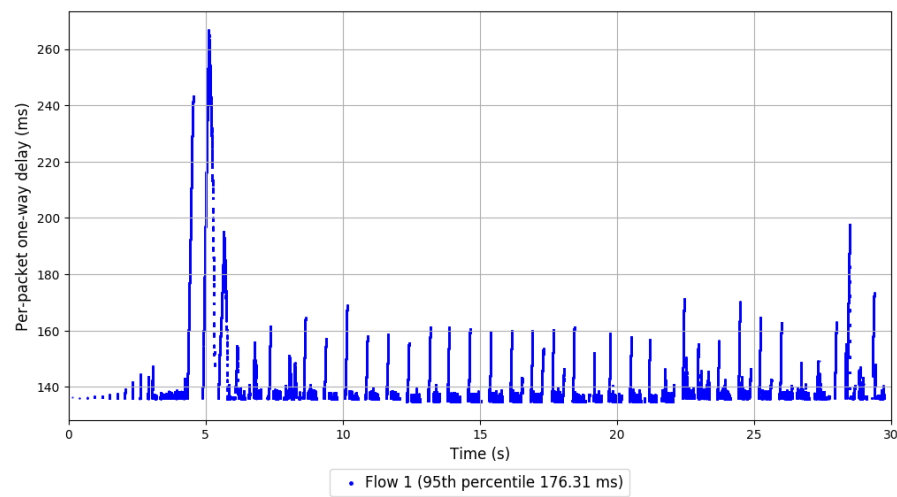
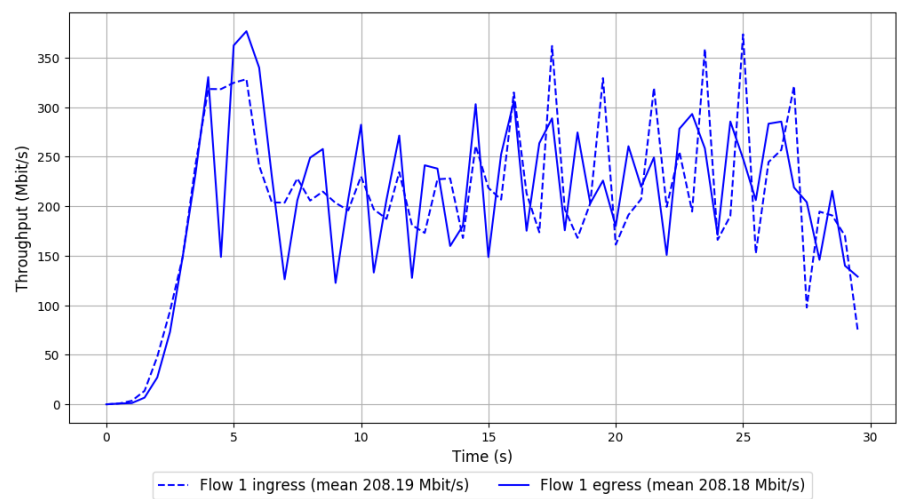
-- Flow 1:

Average throughput: 208.18 Mbit/s

95th percentile per-packet one-way delay: 176.315 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-03-21 01:30:54

End at: 2018-03-21 01:31:24

Below is generated by plot.py at 2018-03-21 04:25:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.57 Mbit/s

95th percentile per-packet one-way delay: 202.300 ms

Loss rate: 0.22%

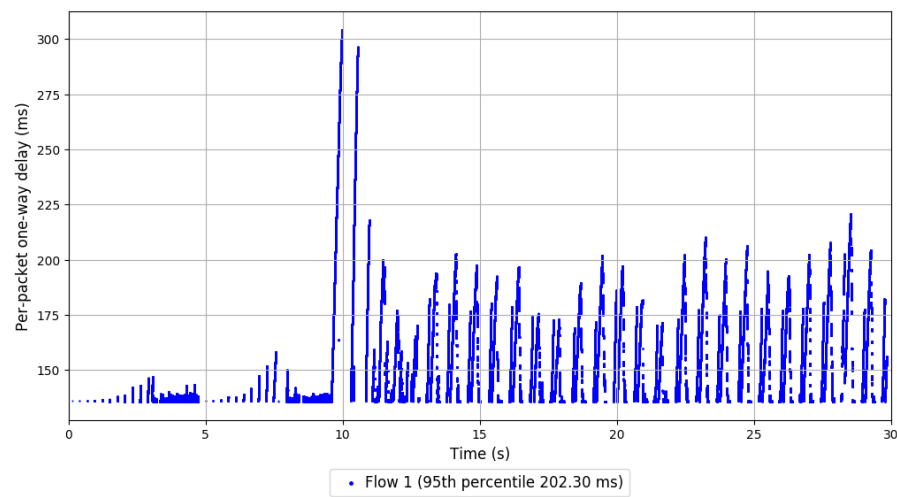
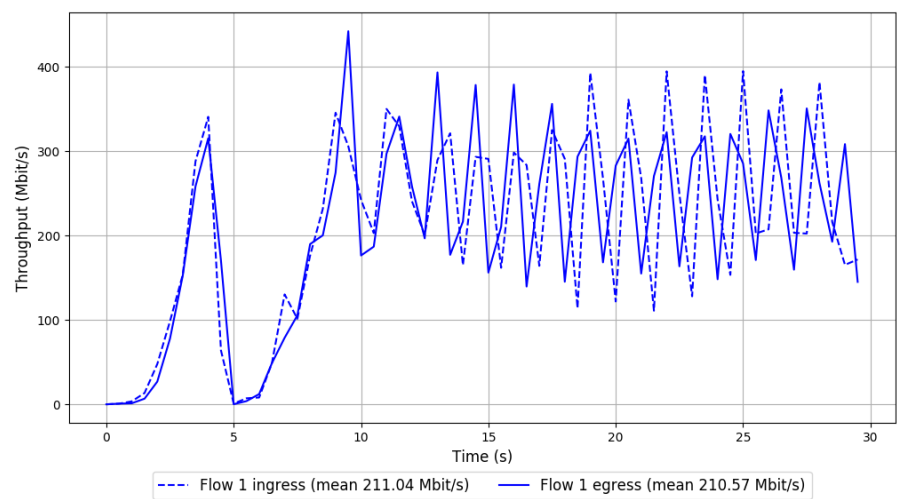
-- Flow 1:

Average throughput: 210.57 Mbit/s

95th percentile per-packet one-way delay: 202.300 ms

Loss rate: 0.22%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-03-21 01:47:15

End at: 2018-03-21 01:47:45

Below is generated by plot.py at 2018-03-21 04:25:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 138.34 Mbit/s

95th percentile per-packet one-way delay: 154.385 ms

Loss rate: 0.00%

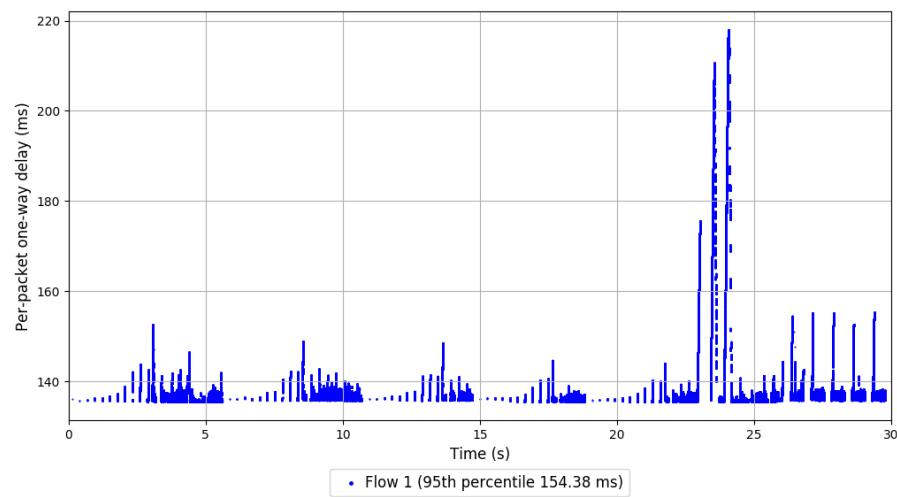
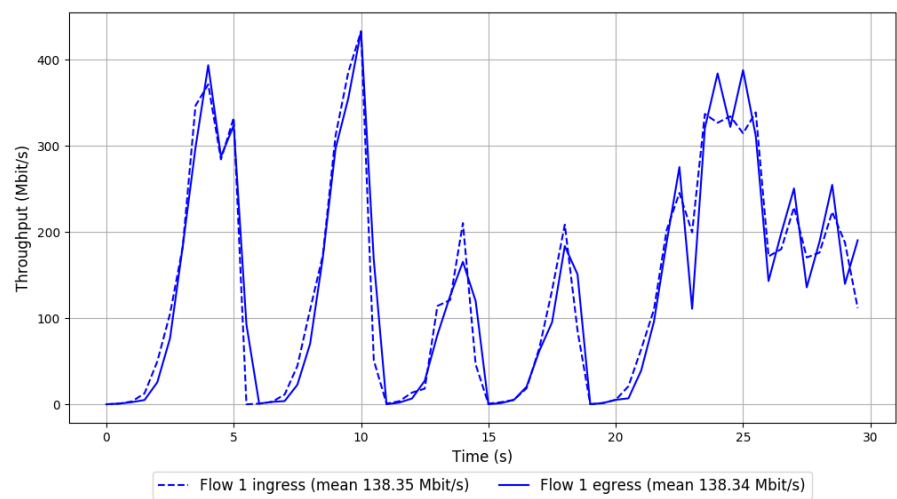
-- Flow 1:

Average throughput: 138.34 Mbit/s

95th percentile per-packet one-way delay: 154.385 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

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

End at: 2018-03-21 02:03:32

Below is generated by plot.py at 2018-03-21 04:26:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 249.84 Mbit/s

95th percentile per-packet one-way delay: 214.636 ms

Loss rate: 0.03%

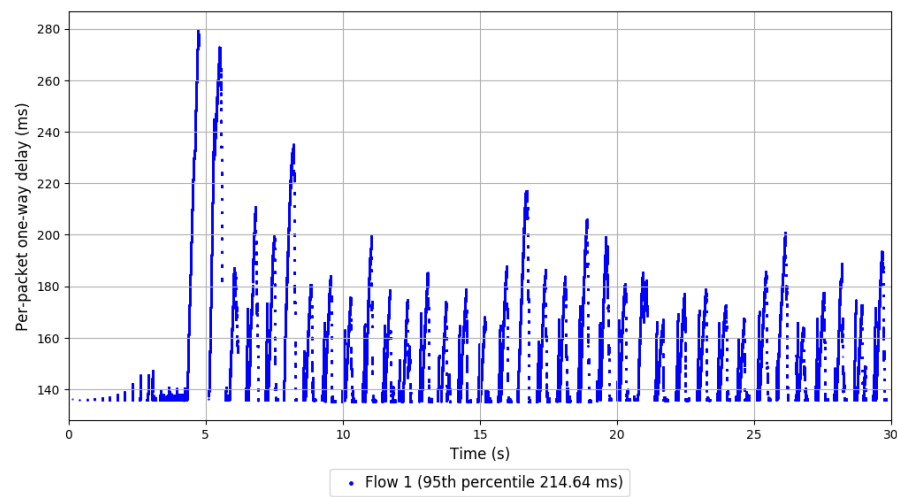
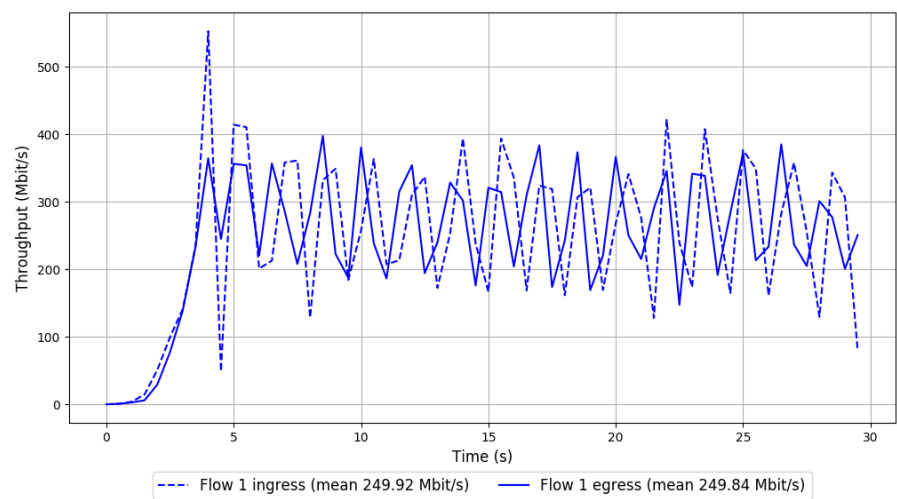
-- Flow 1:

Average throughput: 249.84 Mbit/s

95th percentile per-packet one-way delay: 214.636 ms

Loss rate: 0.03%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-03-21 02:19:02

End at: 2018-03-21 02:19:32

Below is generated by plot.py at 2018-03-21 04:26:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 145.75 Mbit/s

95th percentile per-packet one-way delay: 221.090 ms

Loss rate: 0.26%

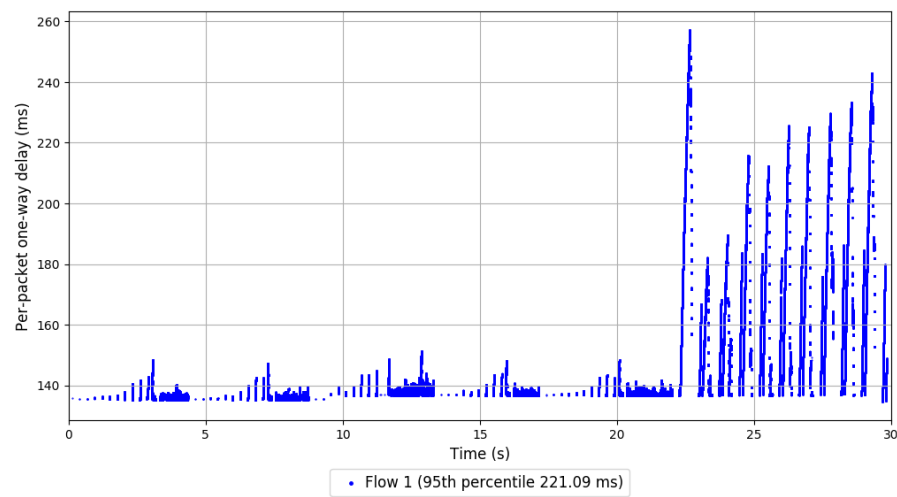
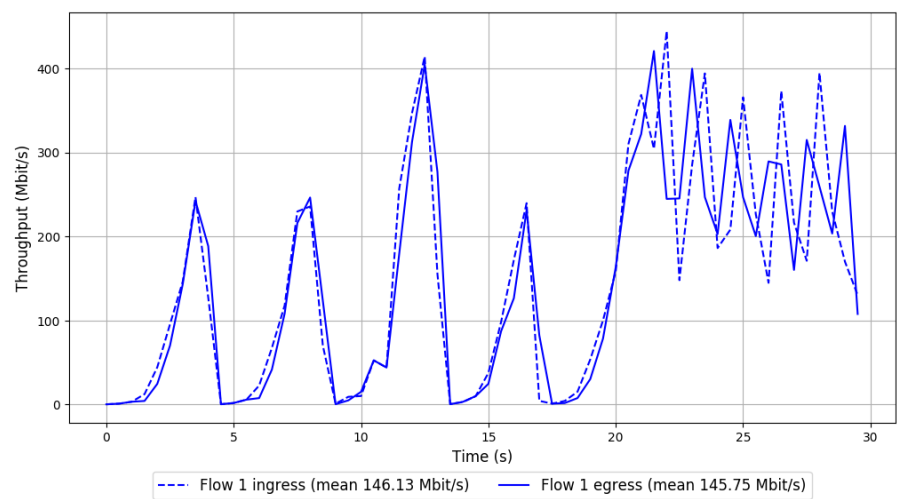
-- Flow 1:

Average throughput: 145.75 Mbit/s

95th percentile per-packet one-way delay: 221.090 ms

Loss rate: 0.26%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-03-21 02:35:19

End at: 2018-03-21 02:35:49

Below is generated by plot.py at 2018-03-21 04:26:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.27 Mbit/s

95th percentile per-packet one-way delay: 189.939 ms

Loss rate: 0.38%

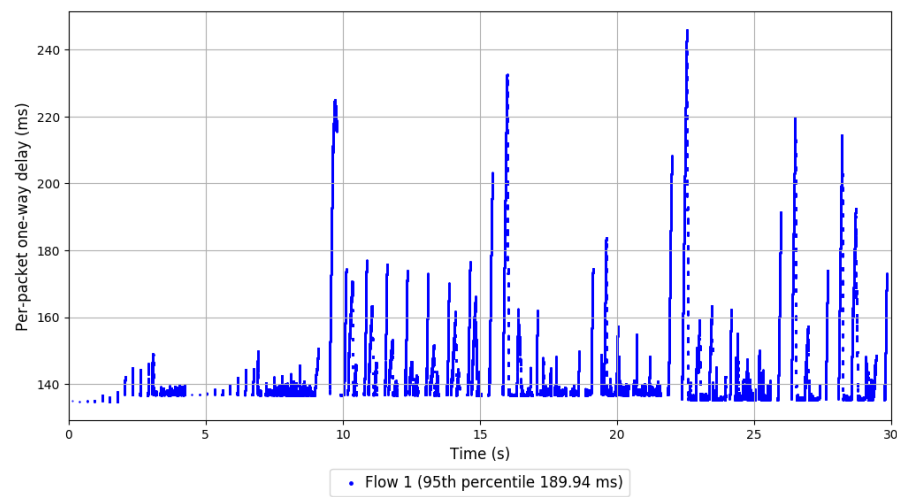
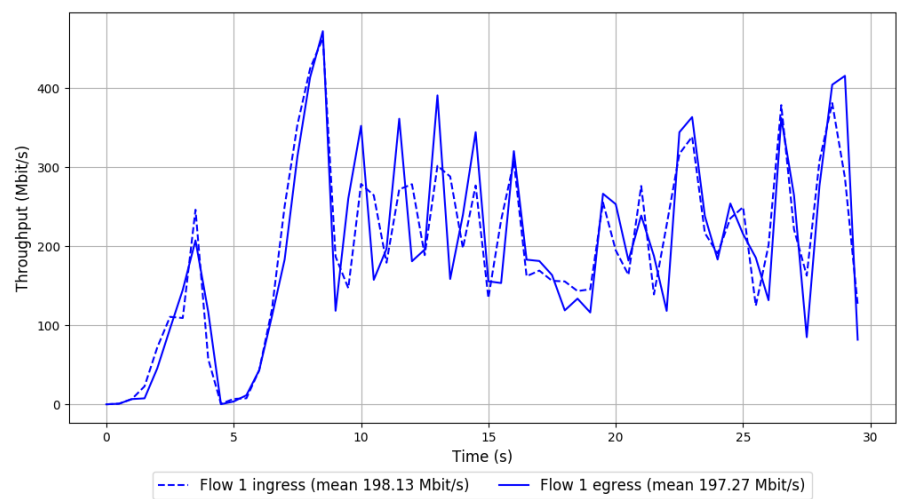
-- Flow 1:

Average throughput: 197.27 Mbit/s

95th percentile per-packet one-way delay: 189.939 ms

Loss rate: 0.38%

Run 10: Report of Verus — Data Link

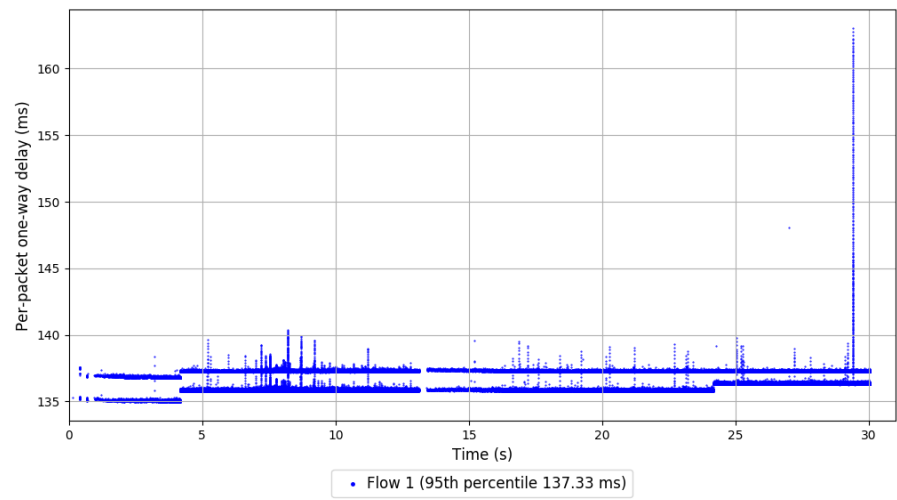
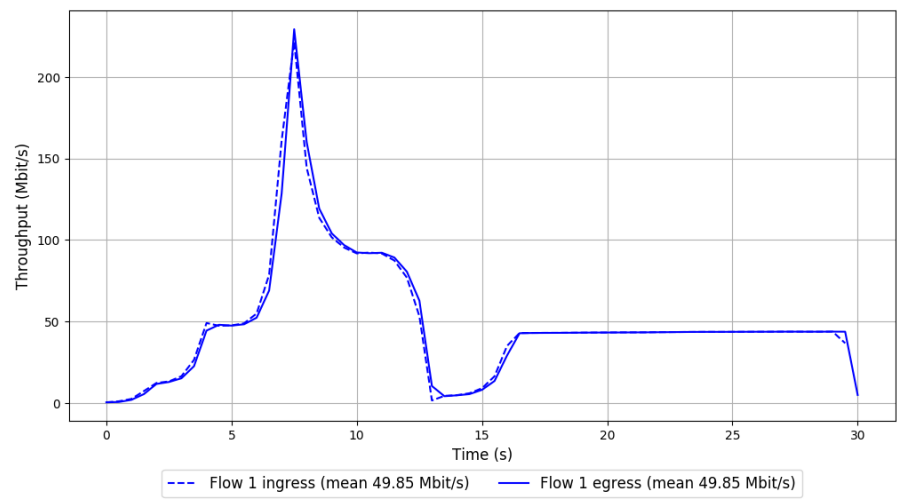


```
Run 1: Statistics of Copa

Start at: 2018-03-21 00:04:37
End at: 2018-03-21 00:05:07

# Below is generated by plot.py at 2018-03-21 04:26:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.85 Mbit/s
95th percentile per-packet one-way delay: 137.329 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.85 Mbit/s
95th percentile per-packet one-way delay: 137.329 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-03-21 00:20:41

End at: 2018-03-21 00:21:11

Below is generated by plot.py at 2018-03-21 04:26:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.51 Mbit/s

95th percentile per-packet one-way delay: 136.664 ms

Loss rate: 0.00%

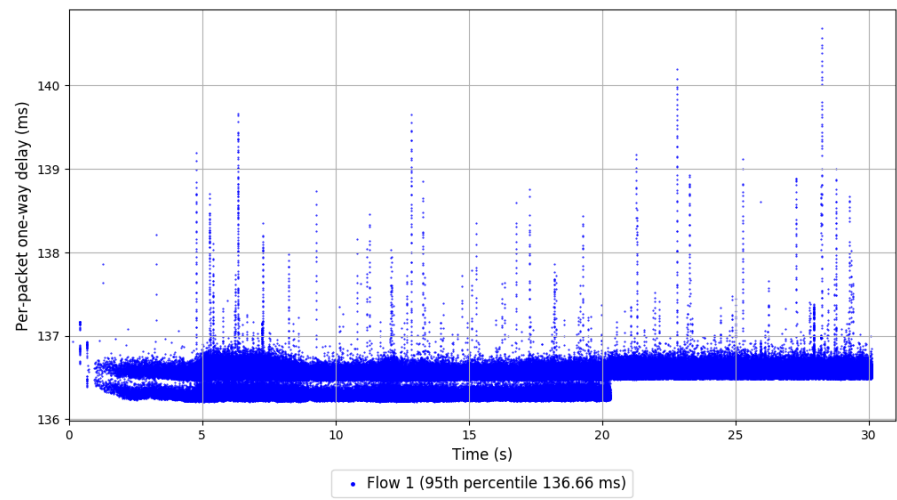
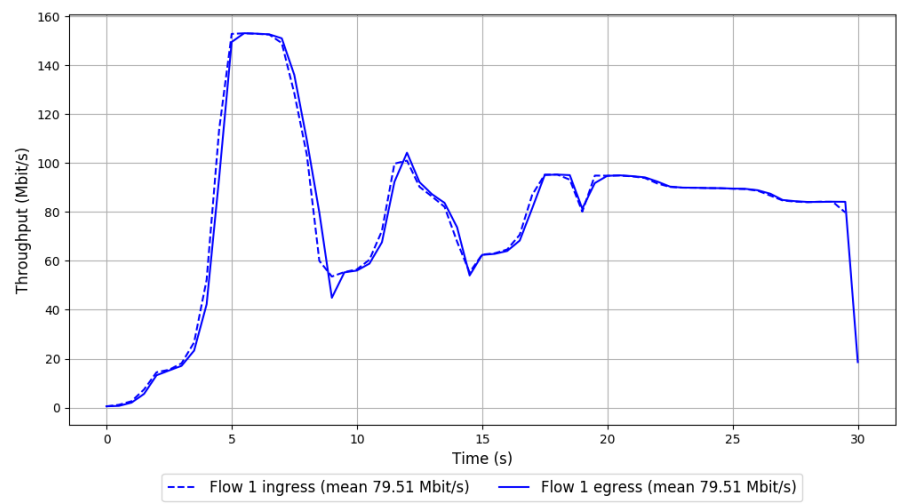
-- Flow 1:

Average throughput: 79.51 Mbit/s

95th percentile per-packet one-way delay: 136.664 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-03-21 00:36:47

End at: 2018-03-21 00:37:17

Below is generated by plot.py at 2018-03-21 04:26:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.46 Mbit/s

95th percentile per-packet one-way delay: 136.602 ms

Loss rate: 0.00%

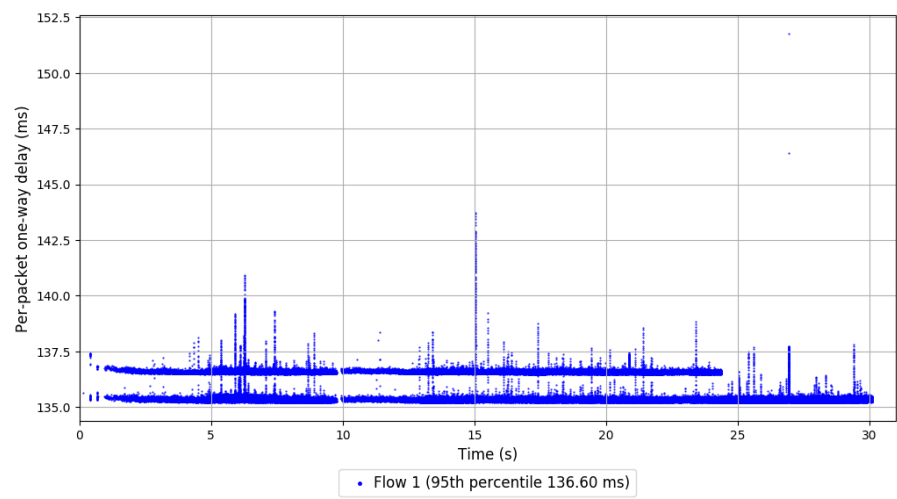
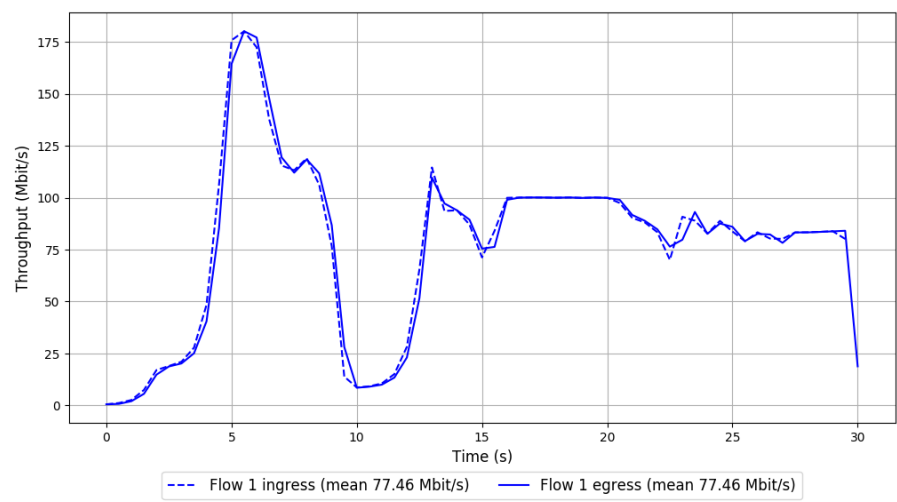
-- Flow 1:

Average throughput: 77.46 Mbit/s

95th percentile per-packet one-way delay: 136.602 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-03-21 00:52:58

End at: 2018-03-21 00:53:28

Below is generated by plot.py at 2018-03-21 04:26:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.84 Mbit/s

95th percentile per-packet one-way delay: 137.118 ms

Loss rate: 0.00%

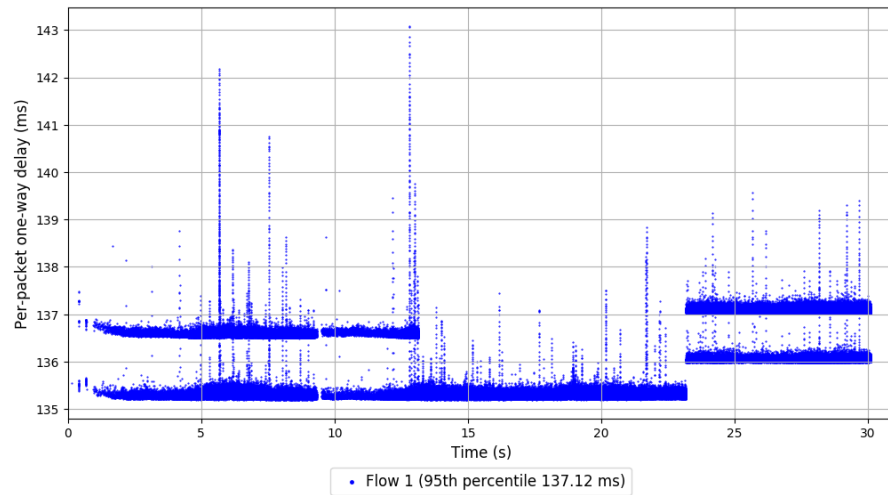
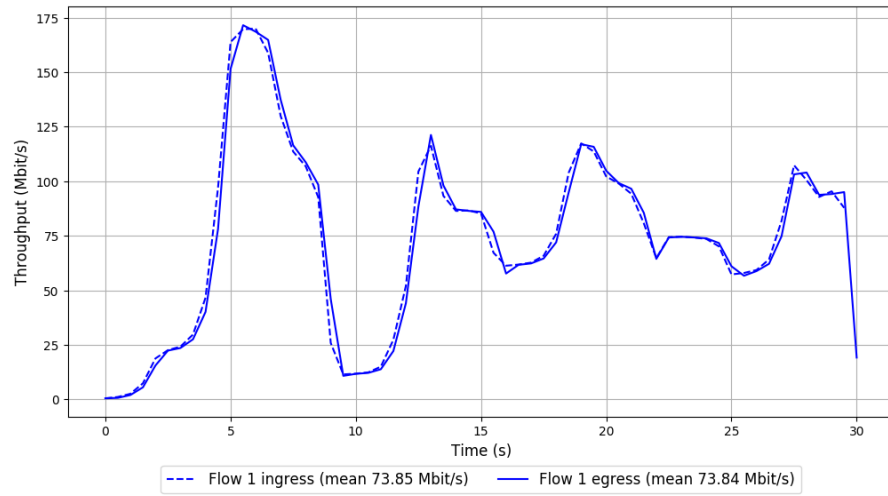
-- Flow 1:

Average throughput: 73.84 Mbit/s

95th percentile per-packet one-way delay: 137.118 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-03-21 01:09:11

End at: 2018-03-21 01:09:41

Below is generated by plot.py at 2018-03-21 04:26:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.11 Mbit/s

95th percentile per-packet one-way delay: 136.959 ms

Loss rate: 0.00%

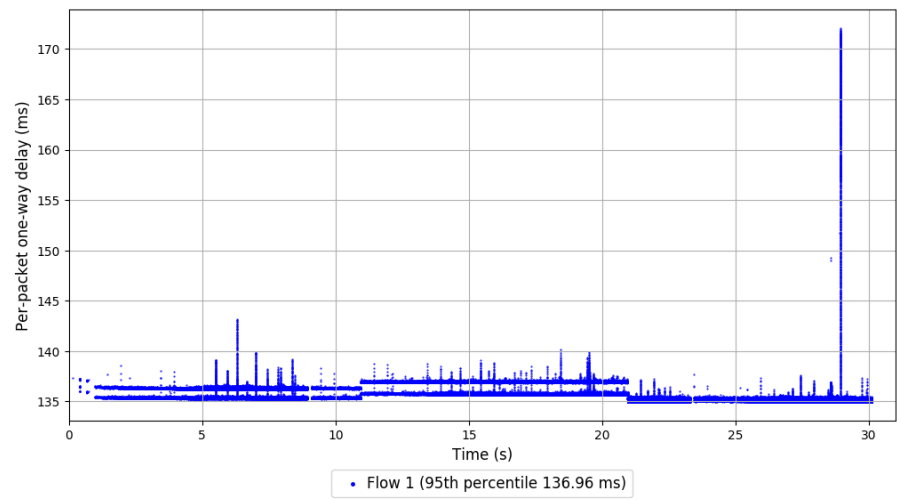
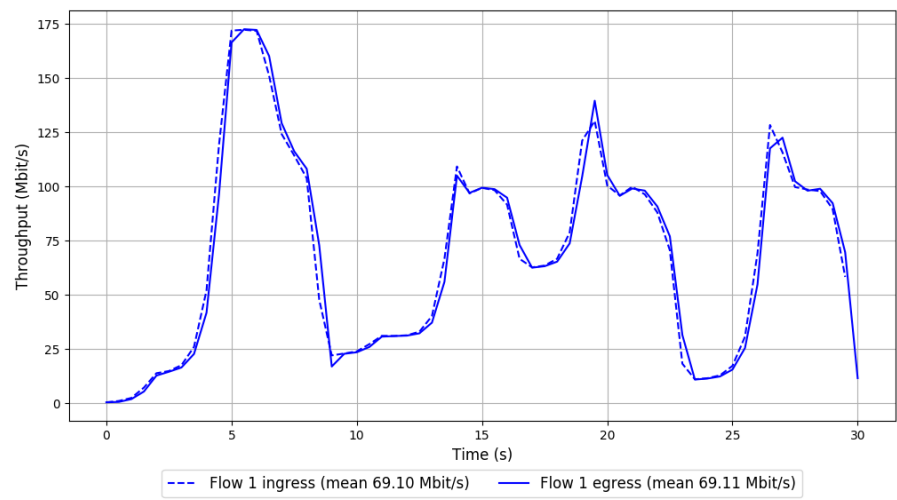
-- Flow 1:

Average throughput: 69.11 Mbit/s

95th percentile per-packet one-way delay: 136.959 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

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

End at: 2018-03-21 01:25:33

Below is generated by plot.py at 2018-03-21 04:27:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.74 Mbit/s

95th percentile per-packet one-way delay: 136.846 ms

Loss rate: 0.00%

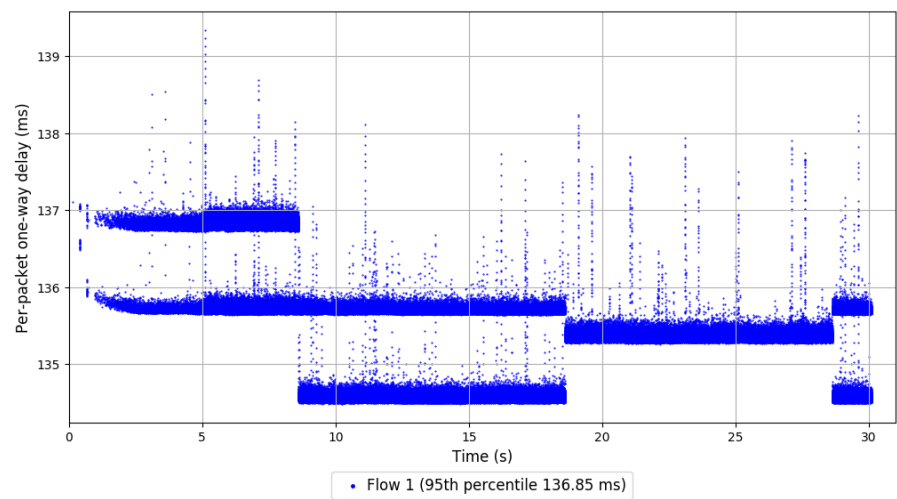
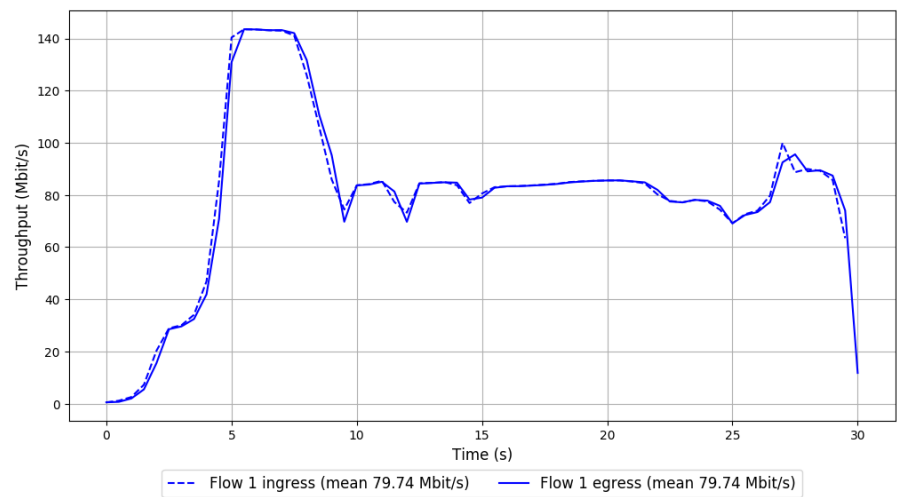
-- Flow 1:

Average throughput: 79.74 Mbit/s

95th percentile per-packet one-way delay: 136.846 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-03-21 01:41:19

End at: 2018-03-21 01:41:49

Below is generated by plot.py at 2018-03-21 04:27:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.62 Mbit/s

95th percentile per-packet one-way delay: 135.565 ms

Loss rate: 0.00%

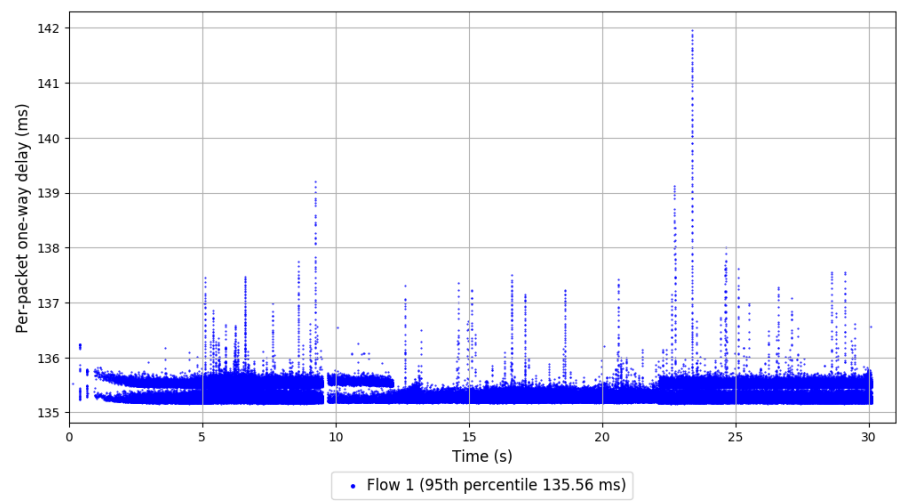
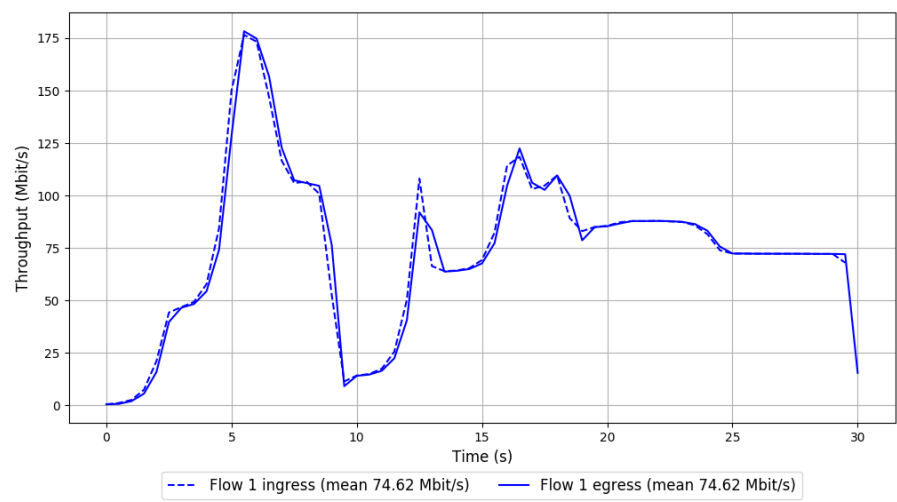
-- Flow 1:

Average throughput: 74.62 Mbit/s

95th percentile per-packet one-way delay: 135.565 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-03-21 01:57:17

End at: 2018-03-21 01:57:47

Below is generated by plot.py at 2018-03-21 04:28:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.80 Mbit/s

95th percentile per-packet one-way delay: 136.400 ms

Loss rate: 0.00%

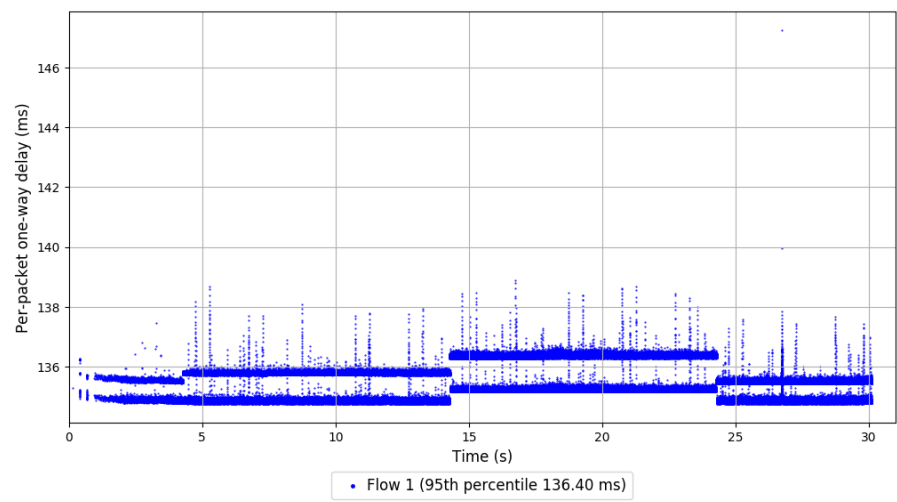
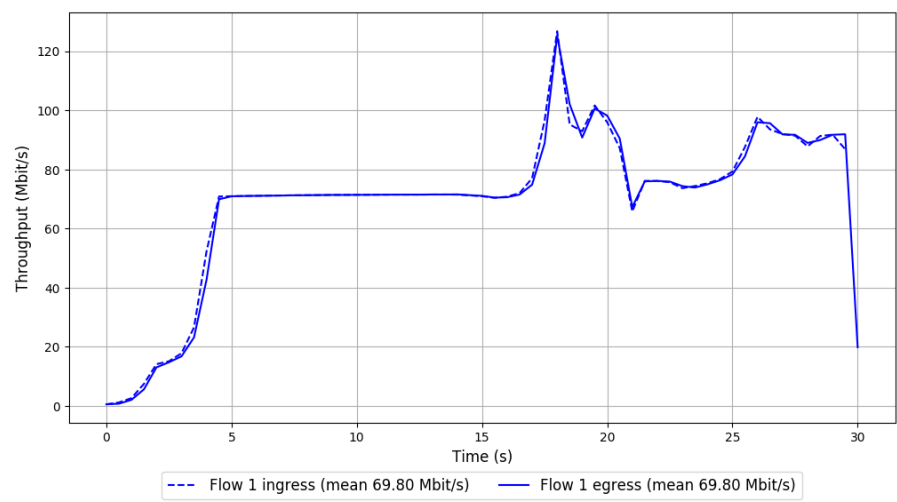
-- Flow 1:

Average throughput: 69.80 Mbit/s

95th percentile per-packet one-way delay: 136.400 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-03-21 02:13:09

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

Below is generated by plot.py at 2018-03-21 04:28:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.20 Mbit/s

95th percentile per-packet one-way delay: 135.764 ms

Loss rate: 0.00%

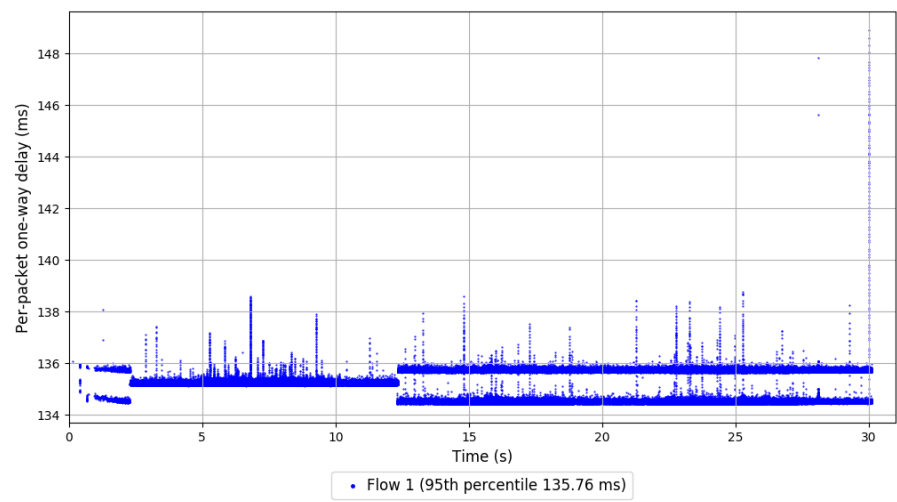
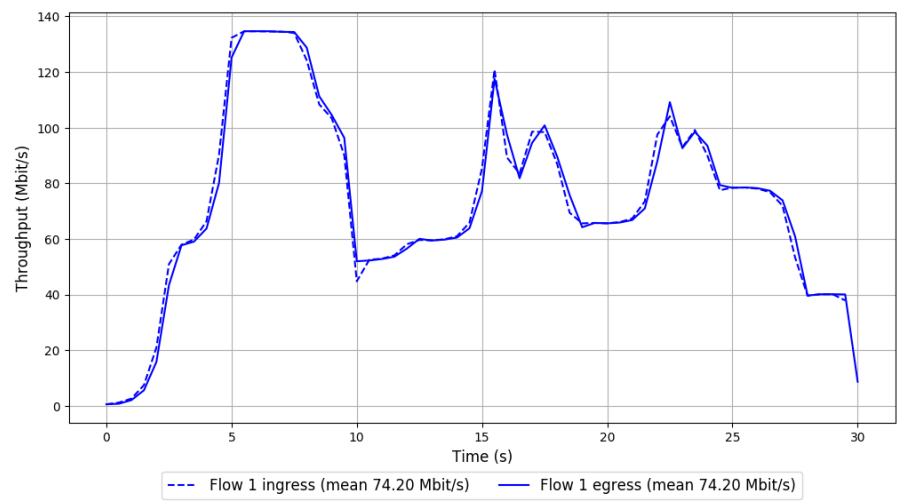
-- Flow 1:

Average throughput: 74.20 Mbit/s

95th percentile per-packet one-way delay: 135.764 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-03-21 02:29:23

End at: 2018-03-21 02:29:53

Below is generated by plot.py at 2018-03-21 04:28:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.74 Mbit/s

95th percentile per-packet one-way delay: 136.730 ms

Loss rate: 0.00%

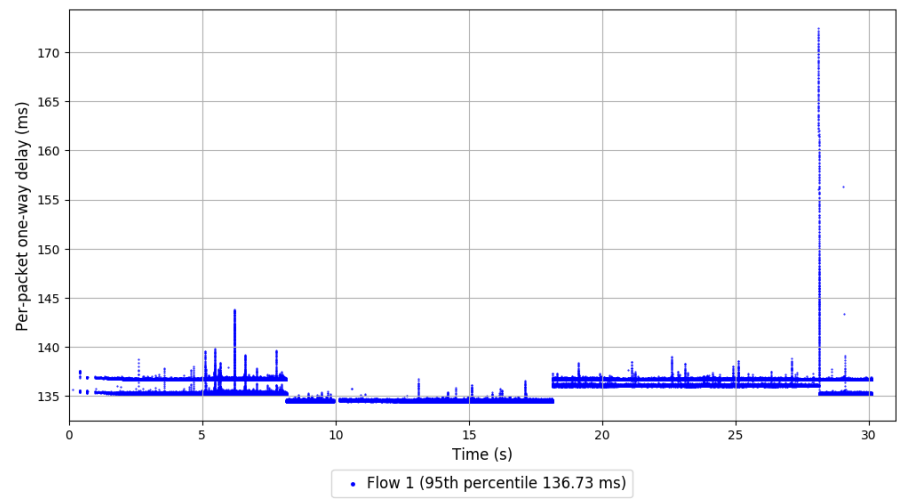
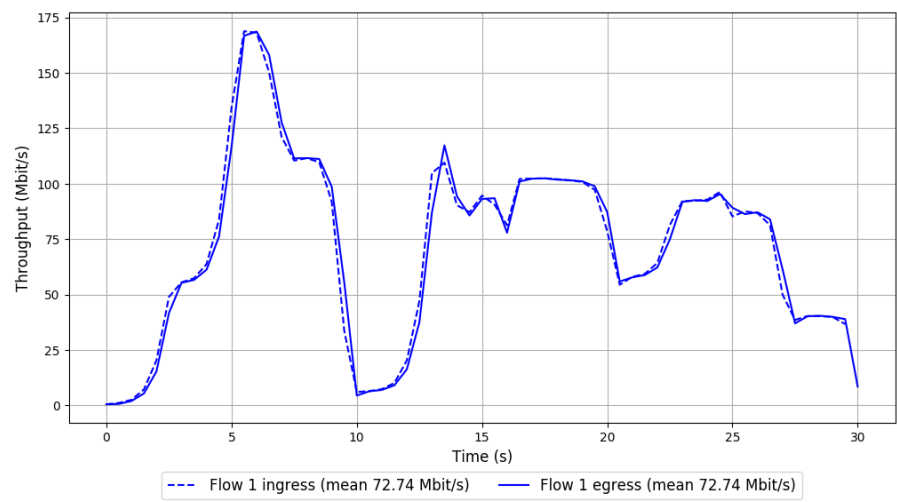
-- Flow 1:

Average throughput: 72.74 Mbit/s

95th percentile per-packet one-way delay: 136.730 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

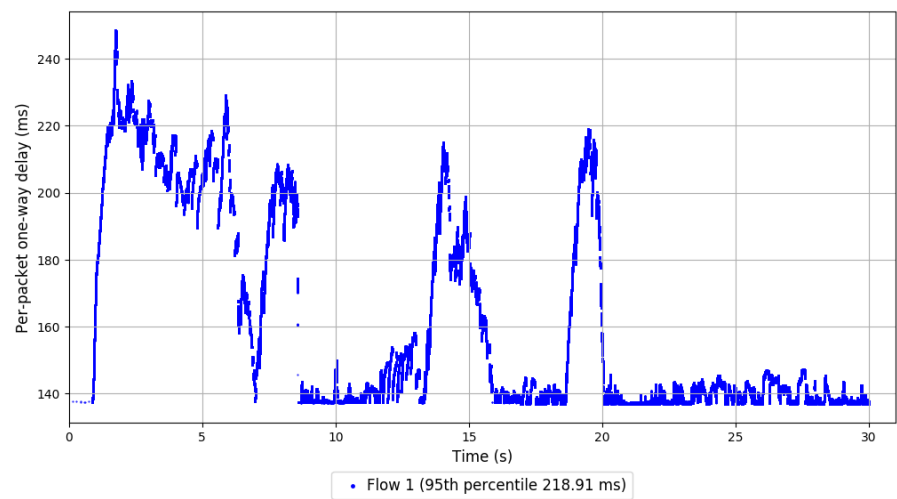
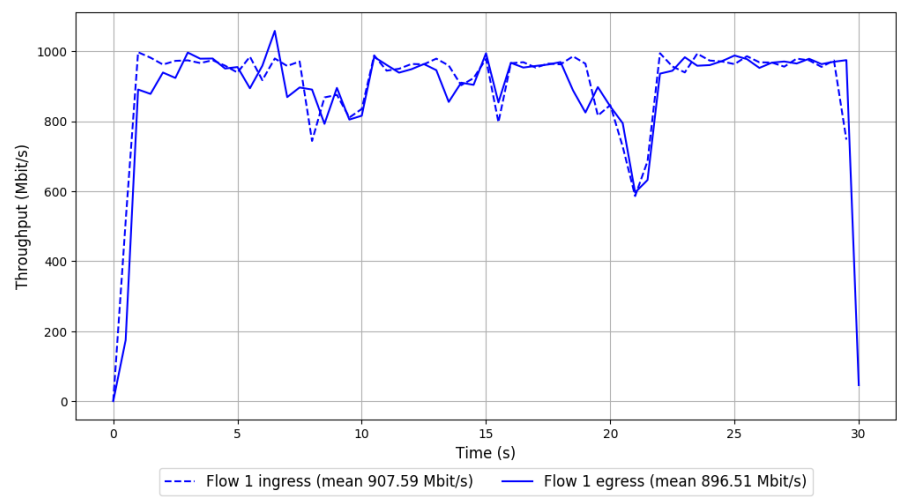


```
Run 1: Statistics of FillP

Start at: 2018-03-21 00:09:05
End at: 2018-03-21 00:09:35

# Below is generated by plot.py at 2018-03-21 04:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 896.51 Mbit/s
95th percentile per-packet one-way delay: 218.910 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 896.51 Mbit/s
95th percentile per-packet one-way delay: 218.910 ms
Loss rate: 1.22%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-03-21 00:25:18

End at: 2018-03-21 00:25:48

Below is generated by plot.py at 2018-03-21 04:43:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 900.19 Mbit/s

95th percentile per-packet one-way delay: 200.221 ms

Loss rate: 0.77%

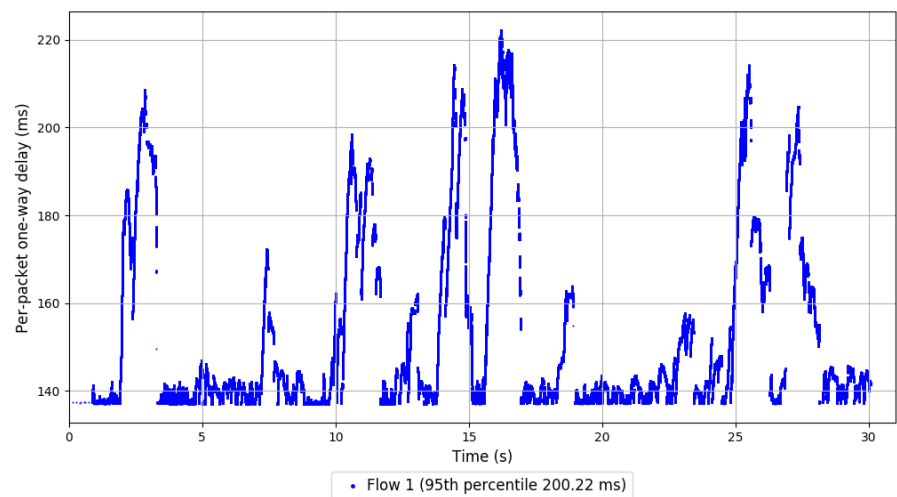
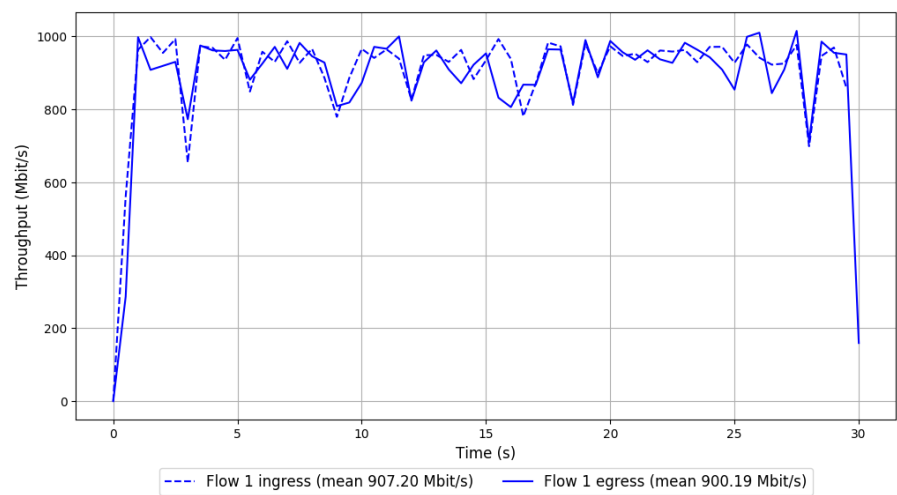
-- Flow 1:

Average throughput: 900.19 Mbit/s

95th percentile per-packet one-way delay: 200.221 ms

Loss rate: 0.77%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-03-21 00:41:20

End at: 2018-03-21 00:41:50

Below is generated by plot.py at 2018-03-21 04:43:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 900.47 Mbit/s

95th percentile per-packet one-way delay: 206.174 ms

Loss rate: 1.30%

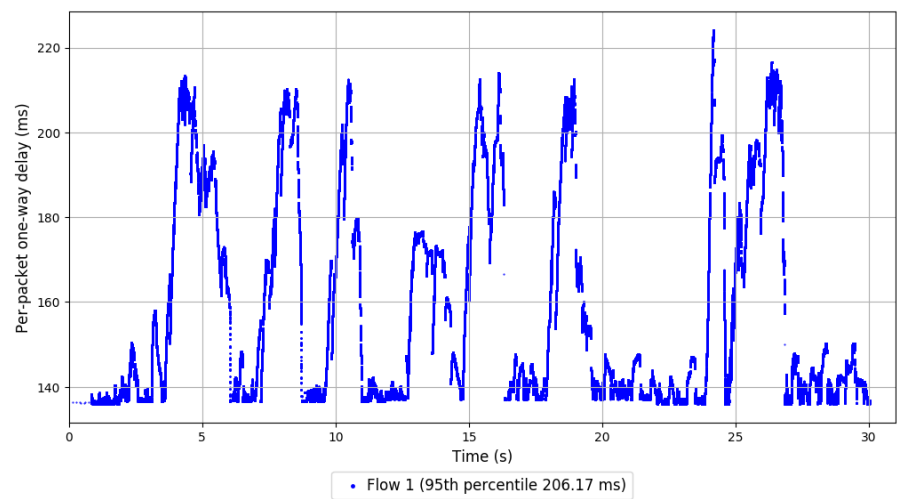
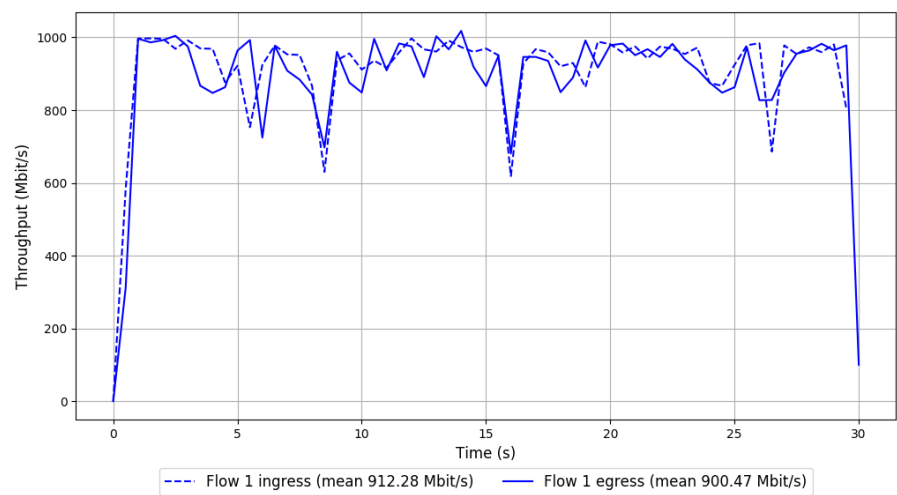
-- Flow 1:

Average throughput: 900.47 Mbit/s

95th percentile per-packet one-way delay: 206.174 ms

Loss rate: 1.30%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-03-21 00:57:27

End at: 2018-03-21 00:57:57

Below is generated by plot.py at 2018-03-21 04:43:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 899.73 Mbit/s

95th percentile per-packet one-way delay: 204.400 ms

Loss rate: 1.33%

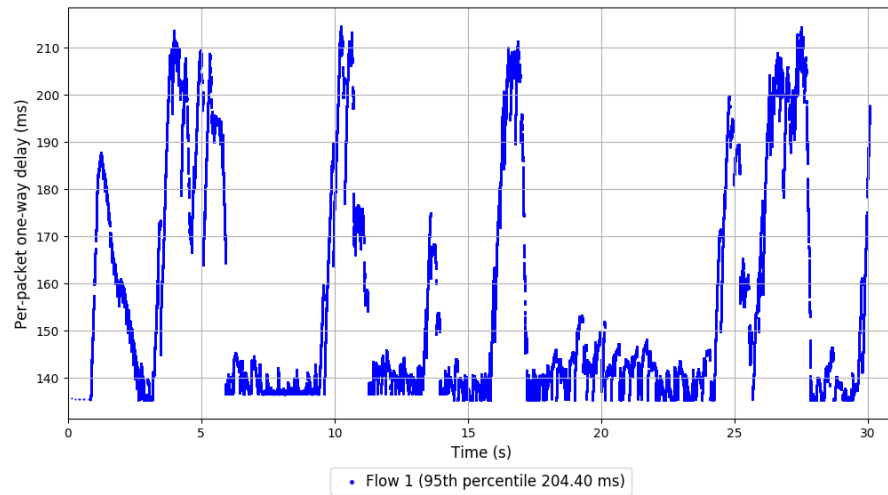
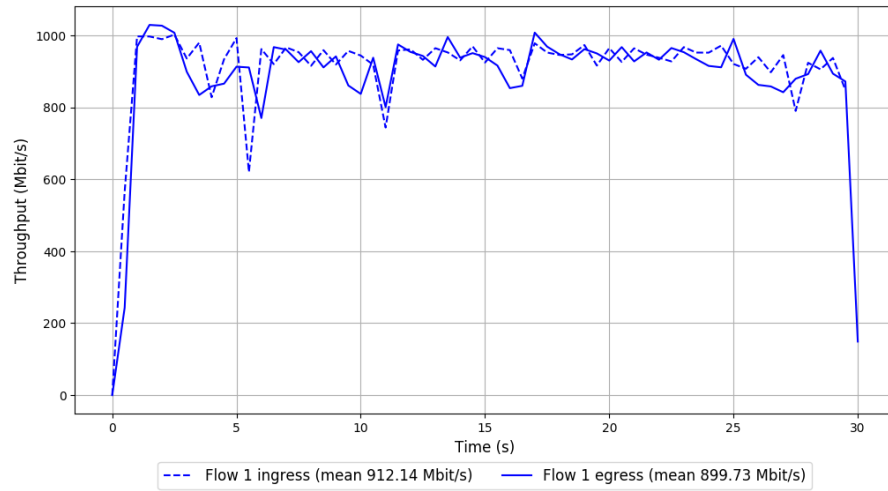
-- Flow 1:

Average throughput: 899.73 Mbit/s

95th percentile per-packet one-way delay: 204.400 ms

Loss rate: 1.33%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-03-21 01:13:41

End at: 2018-03-21 01:14:12

Below is generated by plot.py at 2018-03-21 04:43:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 867.81 Mbit/s

95th percentile per-packet one-way delay: 207.713 ms

Loss rate: 3.17%

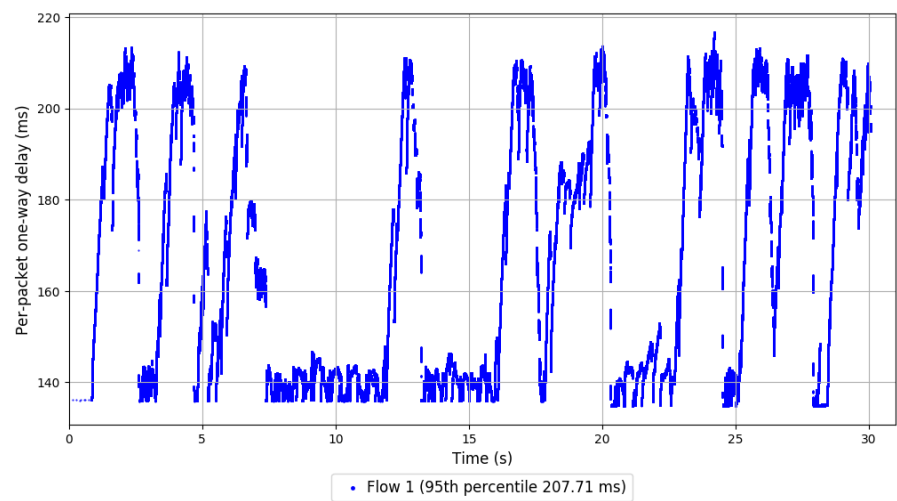
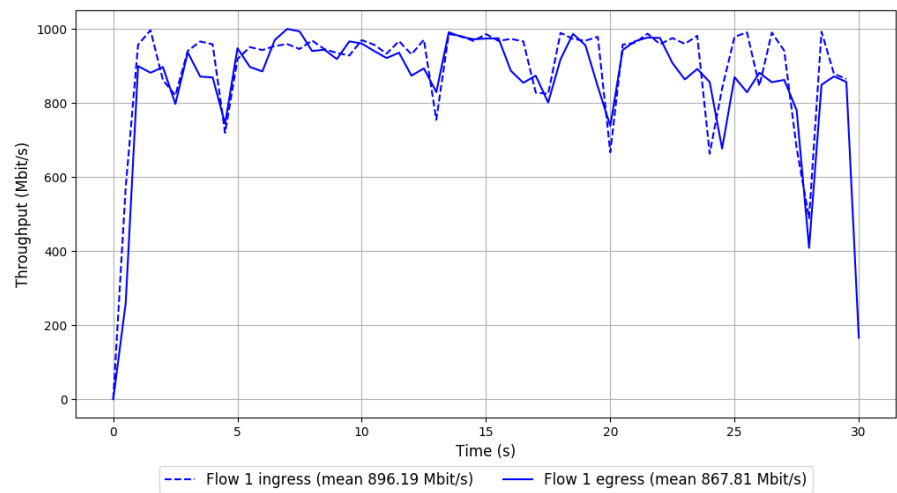
-- Flow 1:

Average throughput: 867.81 Mbit/s

95th percentile per-packet one-way delay: 207.713 ms

Loss rate: 3.17%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-03-21 01:29:36

End at: 2018-03-21 01:30:06

Below is generated by plot.py at 2018-03-21 04:44:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 892.63 Mbit/s

95th percentile per-packet one-way delay: 206.671 ms

Loss rate: 1.30%

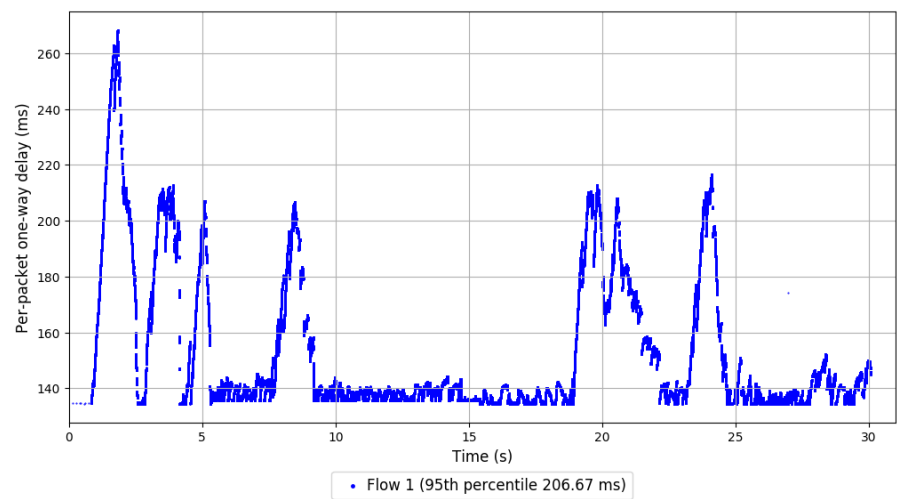
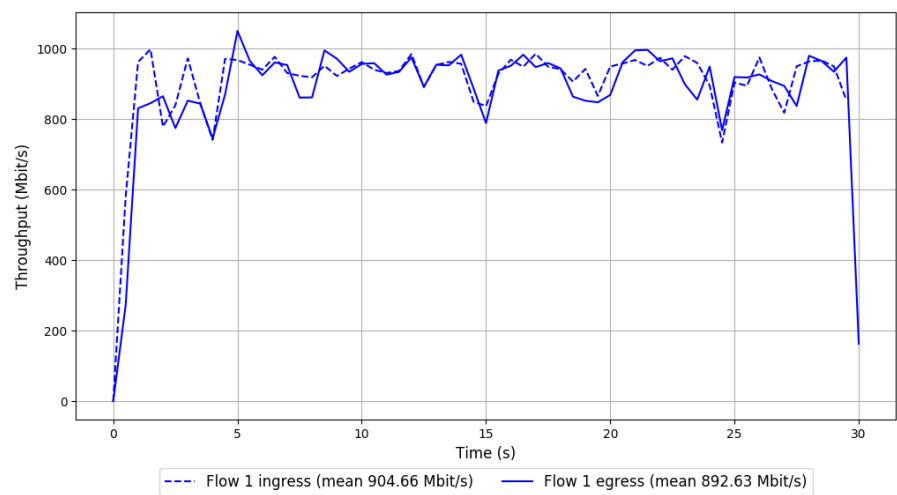
-- Flow 1:

Average throughput: 892.63 Mbit/s

95th percentile per-packet one-way delay: 206.671 ms

Loss rate: 1.30%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-03-21 01:45:56

End at: 2018-03-21 01:46:26

Below is generated by plot.py at 2018-03-21 04:45:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 926.38 Mbit/s

95th percentile per-packet one-way delay: 190.083 ms

Loss rate: 0.41%

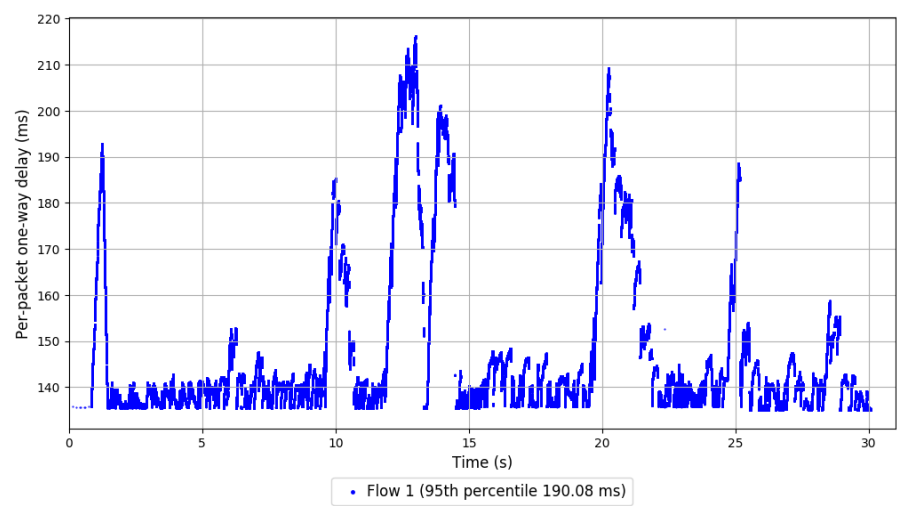
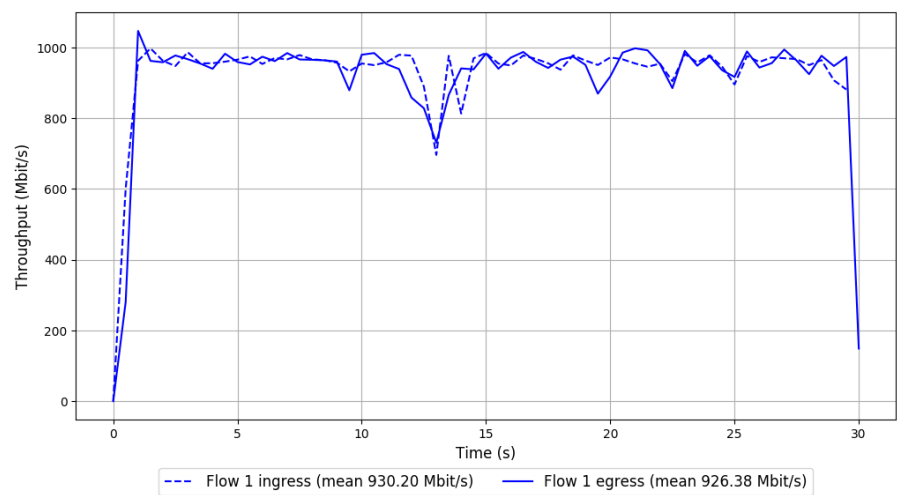
-- Flow 1:

Average throughput: 926.38 Mbit/s

95th percentile per-packet one-way delay: 190.083 ms

Loss rate: 0.41%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-03-21 02:01:44

End at: 2018-03-21 02:02:14

Below is generated by plot.py at 2018-03-21 04:45:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 896.47 Mbit/s

95th percentile per-packet one-way delay: 198.947 ms

Loss rate: 0.63%

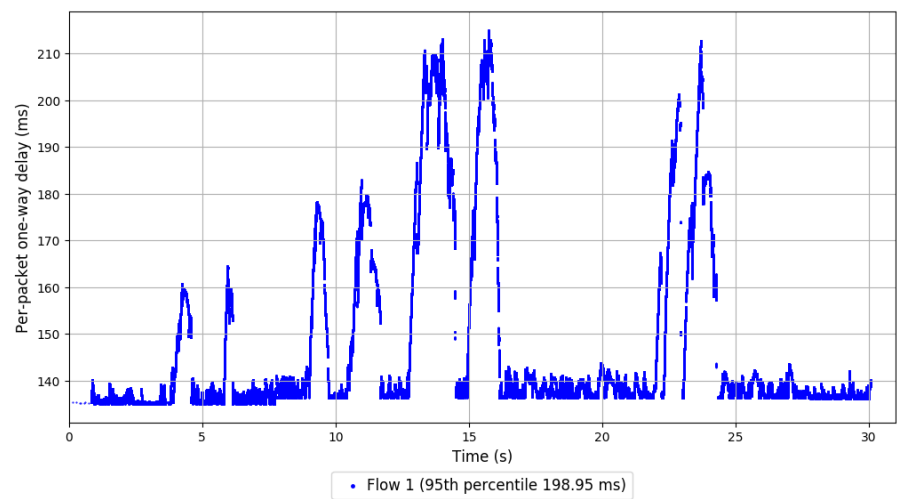
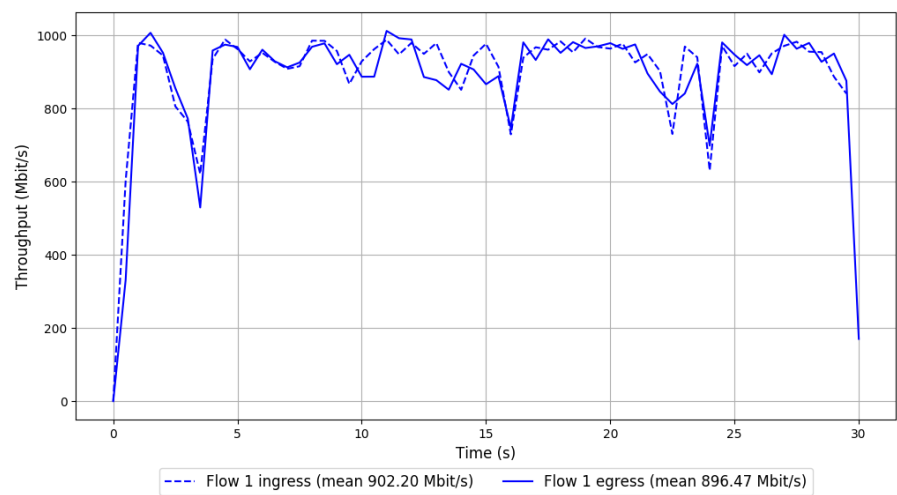
-- Flow 1:

Average throughput: 896.47 Mbit/s

95th percentile per-packet one-way delay: 198.947 ms

Loss rate: 0.63%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-03-21 02:17:43

End at: 2018-03-21 02:18:13

Below is generated by plot.py at 2018-03-21 04:59:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 903.76 Mbit/s

95th percentile per-packet one-way delay: 207.368 ms

Loss rate: 1.59%

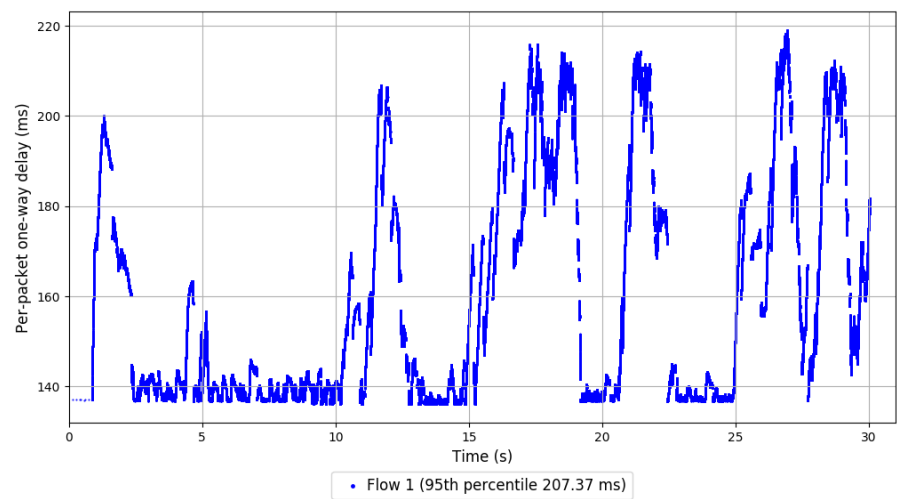
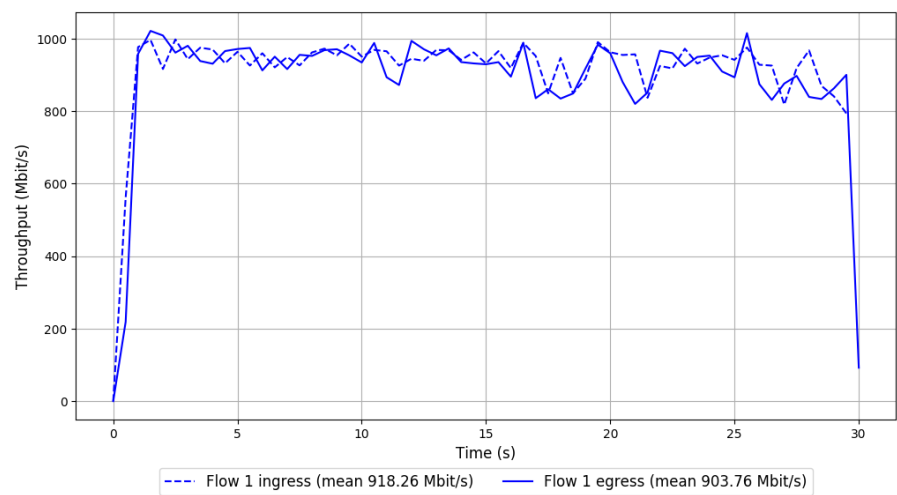
-- Flow 1:

Average throughput: 903.76 Mbit/s

95th percentile per-packet one-way delay: 207.368 ms

Loss rate: 1.59%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-03-21 02:34:01

End at: 2018-03-21 02:34:31

Below is generated by plot.py at 2018-03-21 05:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 900.05 Mbit/s

95th percentile per-packet one-way delay: 205.738 ms

Loss rate: 1.61%

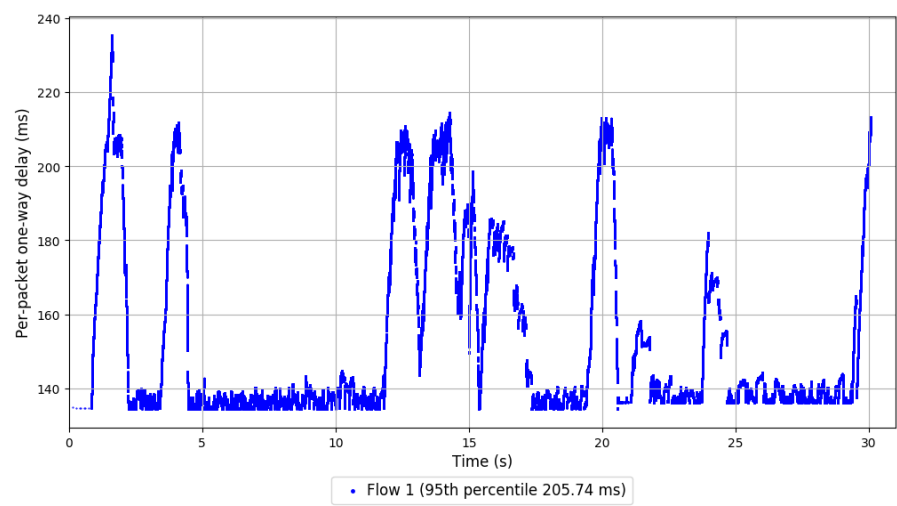
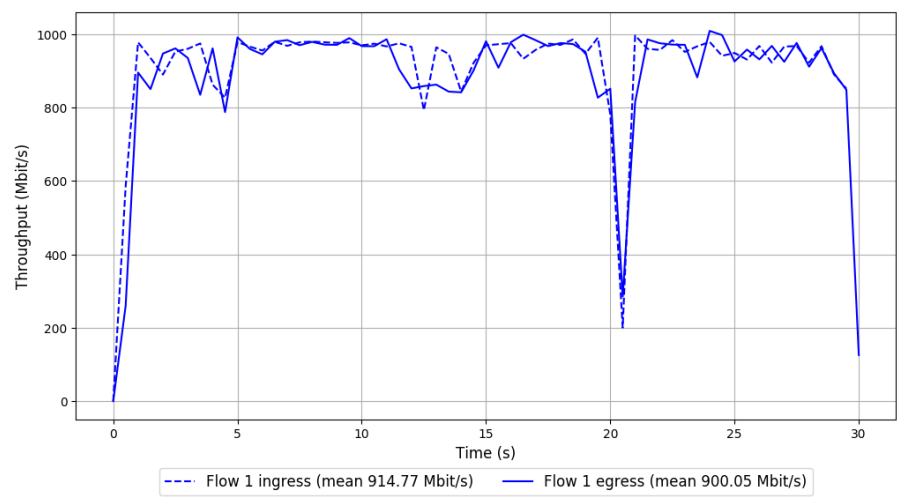
-- Flow 1:

Average throughput: 900.05 Mbit/s

95th percentile per-packet one-way delay: 205.738 ms

Loss rate: 1.61%

Run 10: Report of FillP — Data Link

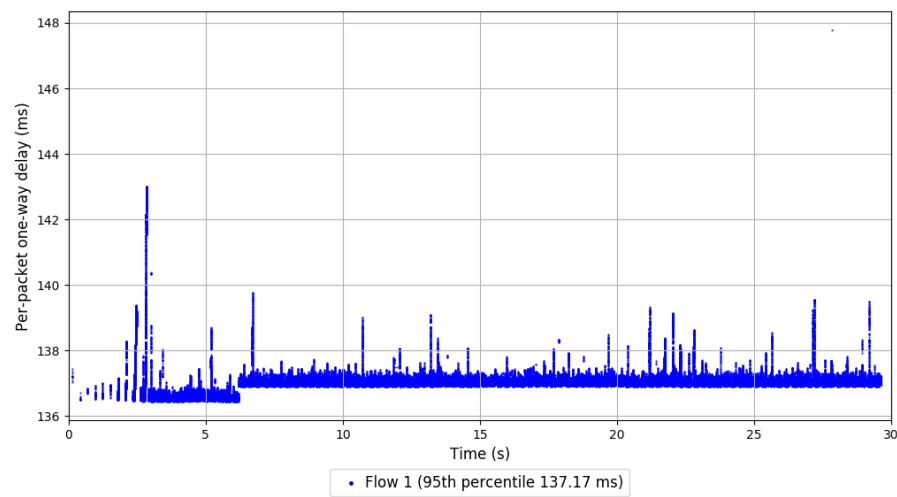
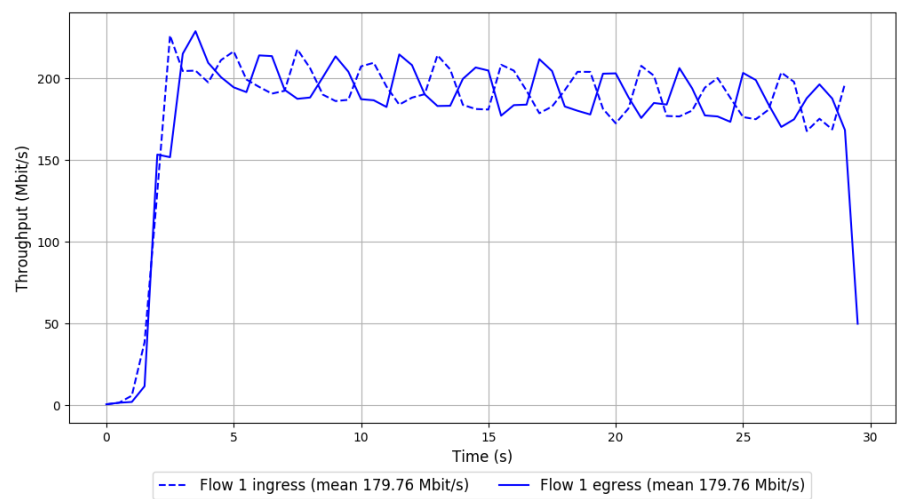


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-03-21 00:17:15
End at: 2018-03-21 00:17:45

# Below is generated by plot.py at 2018-03-21 05:00:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 179.76 Mbit/s
95th percentile per-packet one-way delay: 137.174 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 179.76 Mbit/s
95th percentile per-packet one-way delay: 137.174 ms
Loss rate: 0.00%
```

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

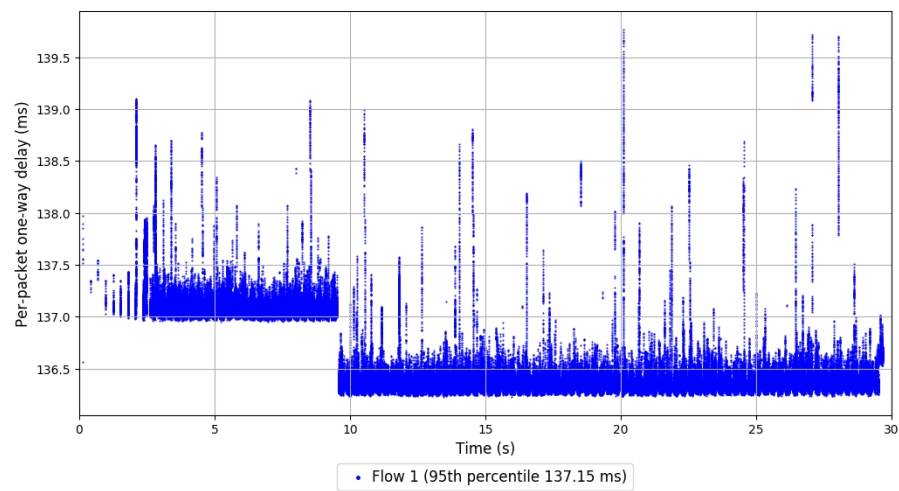
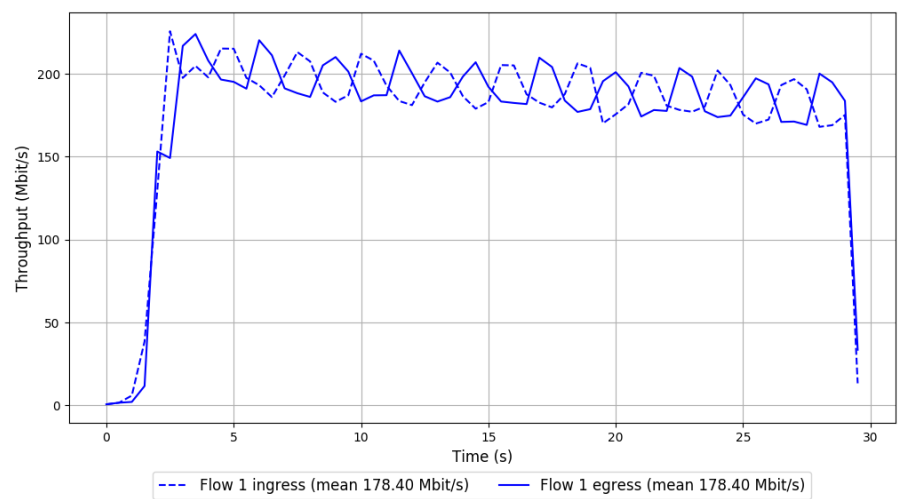


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-03-21 00:33:22
End at: 2018-03-21 00:33:52

# Below is generated by plot.py at 2018-03-21 05:00:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 178.40 Mbit/s
95th percentile per-packet one-way delay: 137.146 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 178.40 Mbit/s
95th percentile per-packet one-way delay: 137.146 ms
Loss rate: 0.00%
```

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

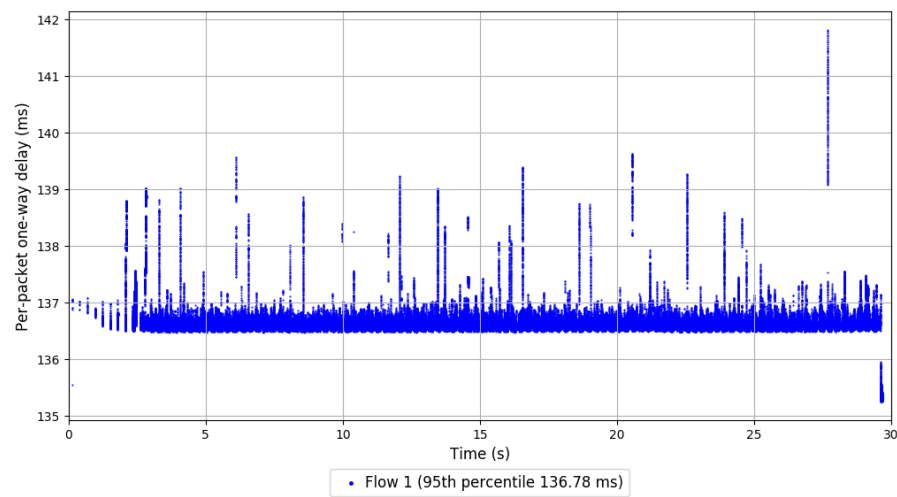
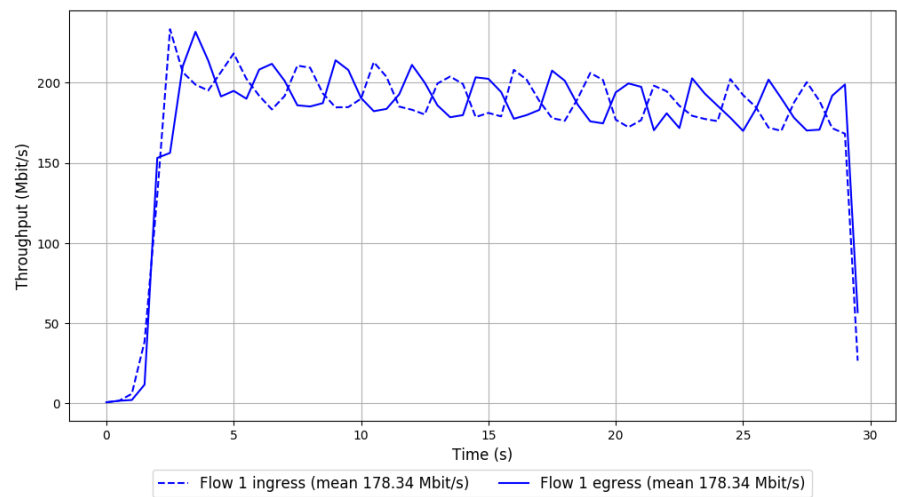


```
Run 3: Statistics of Indigo-1-32

Start at: 2018-03-21 00:49:32
End at: 2018-03-21 00:50:02

# Below is generated by plot.py at 2018-03-21 05:00:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 178.34 Mbit/s
95th percentile per-packet one-way delay: 136.779 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 178.34 Mbit/s
95th percentile per-packet one-way delay: 136.779 ms
Loss rate: 0.00%
```

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-03-21 01:05:47

End at: 2018-03-21 01:06:17

Below is generated by plot.py at 2018-03-21 05:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 135.54 Mbit/s

95th percentile per-packet one-way delay: 136.612 ms

Loss rate: 0.00%

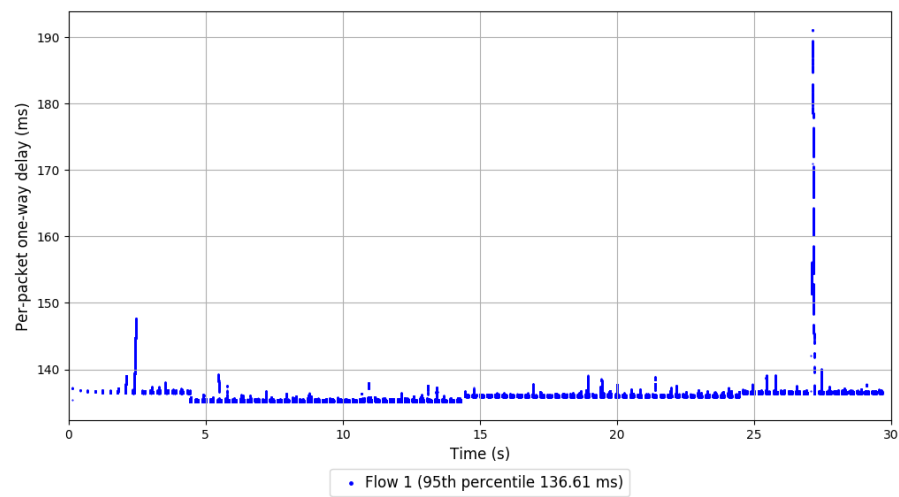
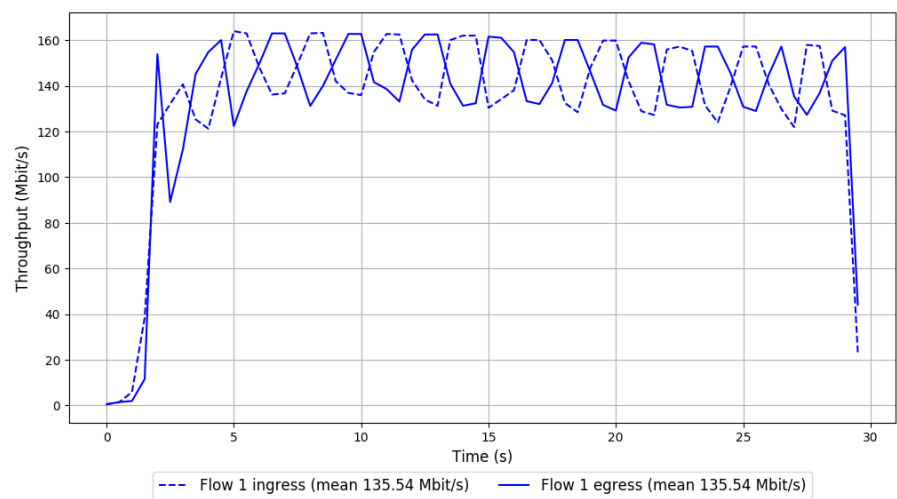
-- Flow 1:

Average throughput: 135.54 Mbit/s

95th percentile per-packet one-way delay: 136.612 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-03-21 01:21:41

End at: 2018-03-21 01:22:11

Below is generated by plot.py at 2018-03-21 05:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.81 Mbit/s

95th percentile per-packet one-way delay: 135.960 ms

Loss rate: 0.00%

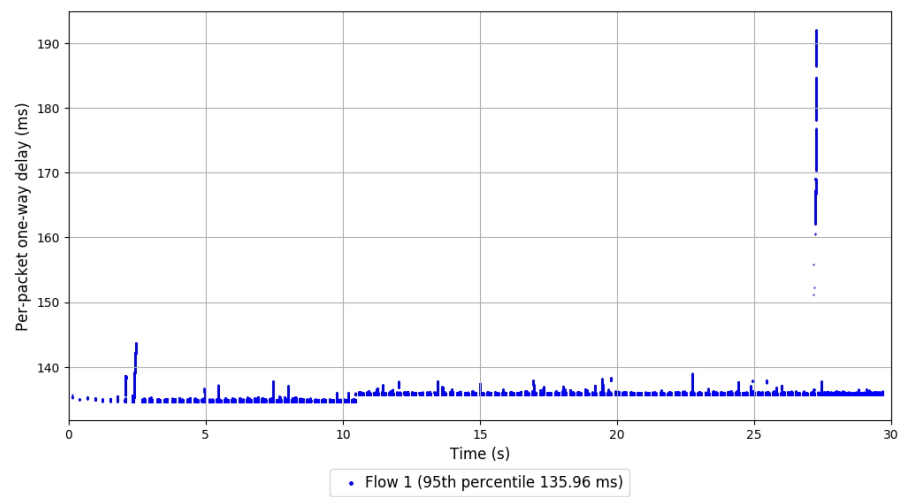
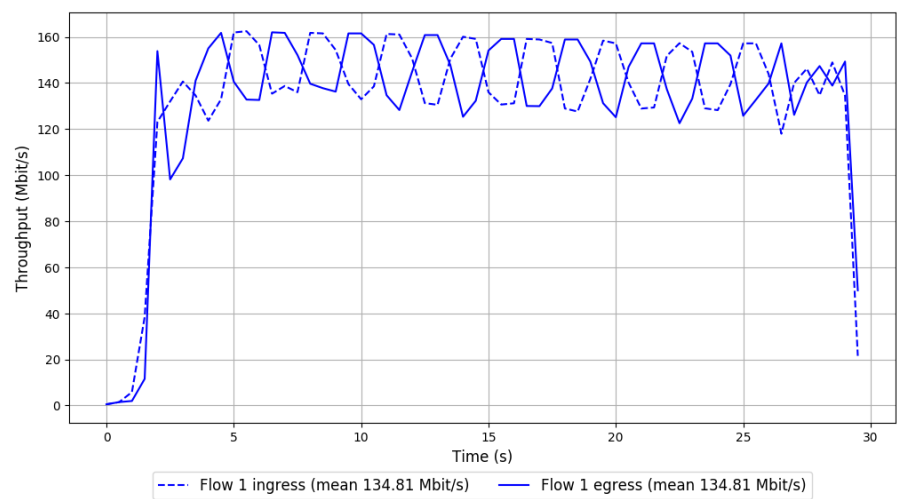
-- Flow 1:

Average throughput: 134.81 Mbit/s

95th percentile per-packet one-way delay: 135.960 ms

Loss rate: 0.00%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-03-21 01:37:55

End at: 2018-03-21 01:38:25

Below is generated by plot.py at 2018-03-21 05:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.75 Mbit/s

95th percentile per-packet one-way delay: 135.788 ms

Loss rate: 0.00%

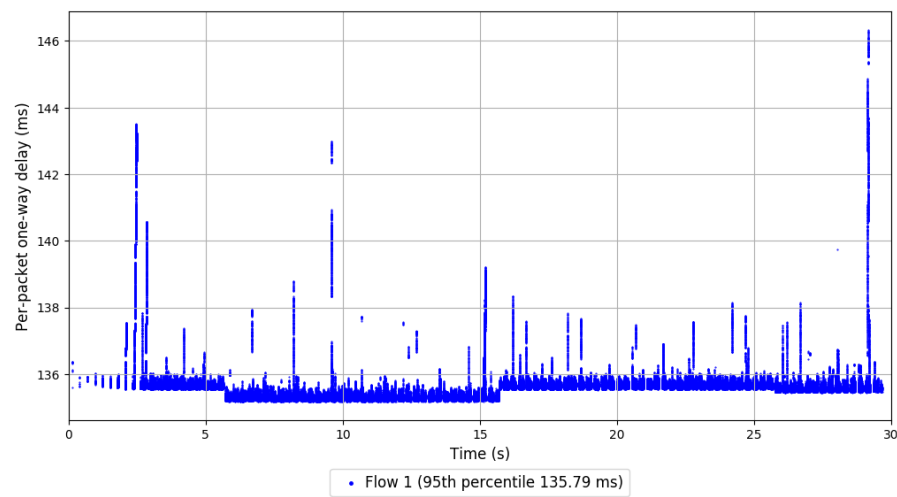
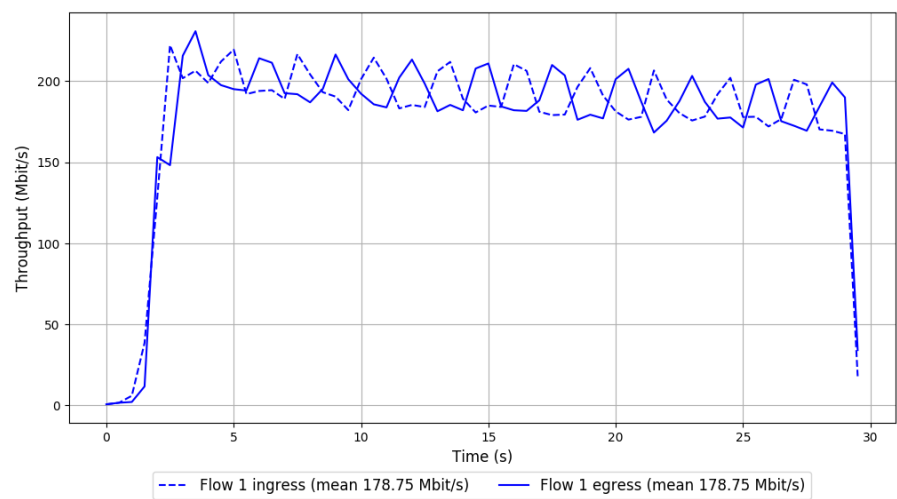
-- Flow 1:

Average throughput: 178.75 Mbit/s

95th percentile per-packet one-way delay: 135.788 ms

Loss rate: 0.00%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-03-21 01:53:54

End at: 2018-03-21 01:54:24

Below is generated by plot.py at 2018-03-21 05:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 135.19 Mbit/s

95th percentile per-packet one-way delay: 135.948 ms

Loss rate: 0.00%

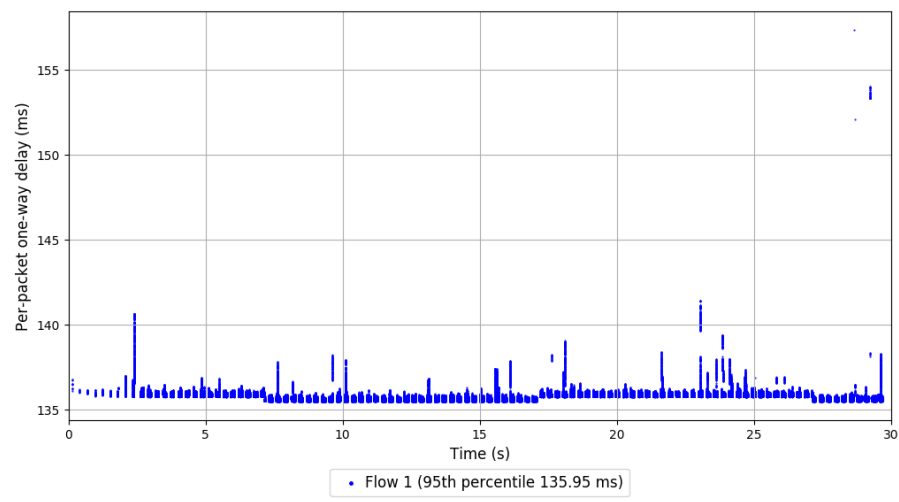
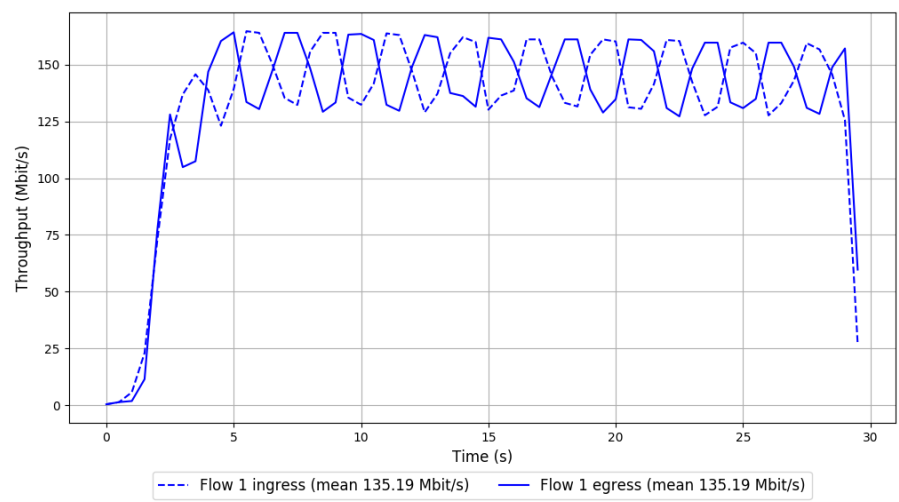
-- Flow 1:

Average throughput: 135.19 Mbit/s

95th percentile per-packet one-way delay: 135.948 ms

Loss rate: 0.00%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-03-21 02:09:46

End at: 2018-03-21 02:10:16

Below is generated by plot.py at 2018-03-21 05:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.47 Mbit/s

95th percentile per-packet one-way delay: 135.847 ms

Loss rate: 0.00%

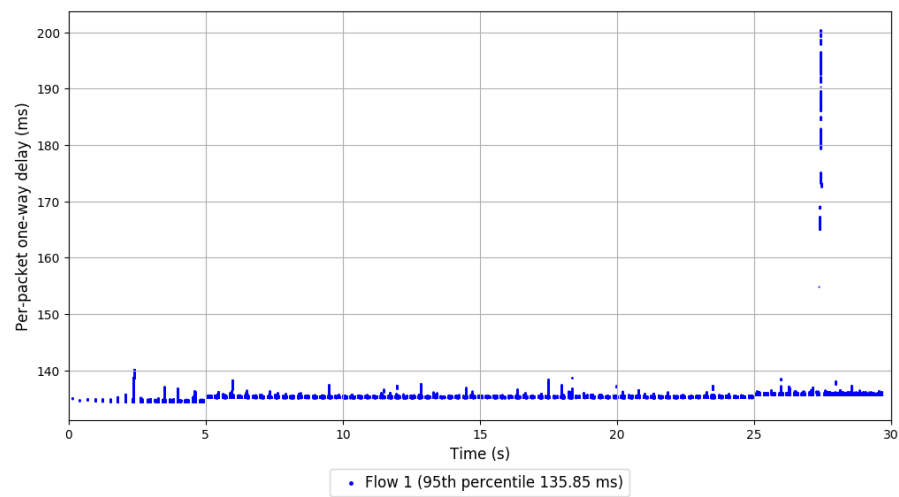
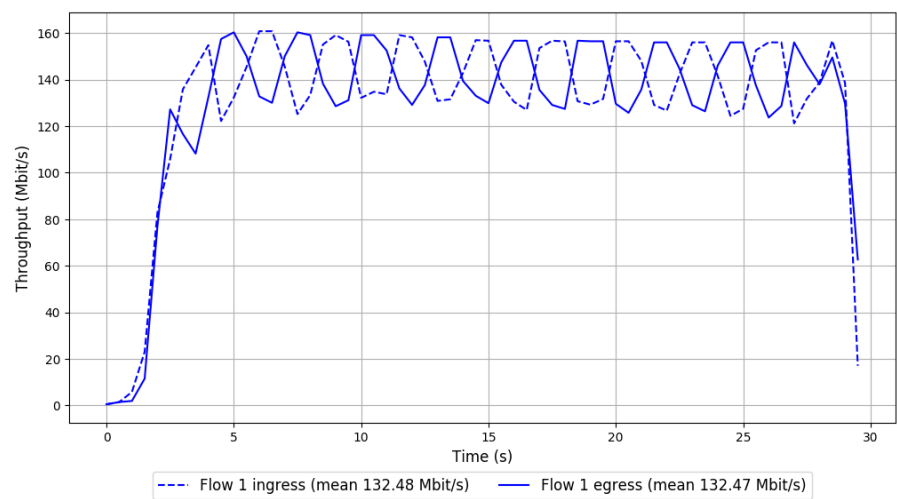
-- Flow 1:

Average throughput: 132.47 Mbit/s

95th percentile per-packet one-way delay: 135.847 ms

Loss rate: 0.00%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-03-21 02:25:59

End at: 2018-03-21 02:26:29

Below is generated by plot.py at 2018-03-21 05:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 147.49 Mbit/s

95th percentile per-packet one-way delay: 136.840 ms

Loss rate: 0.00%

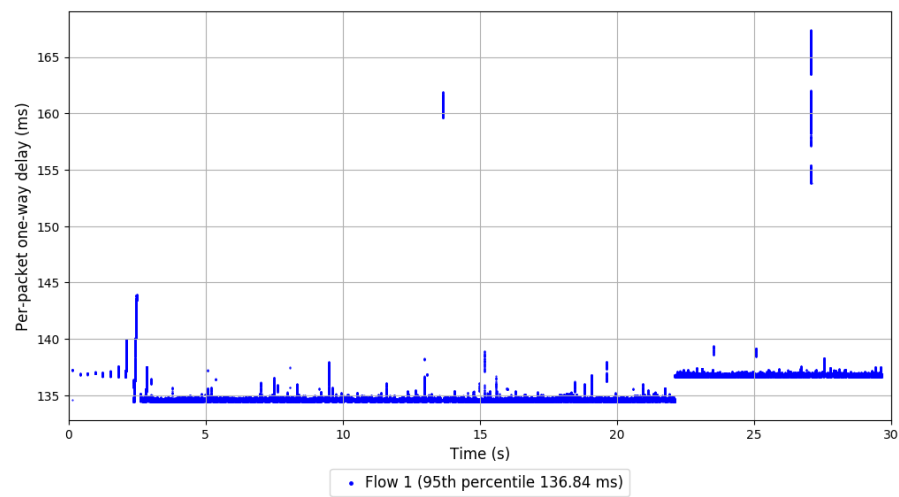
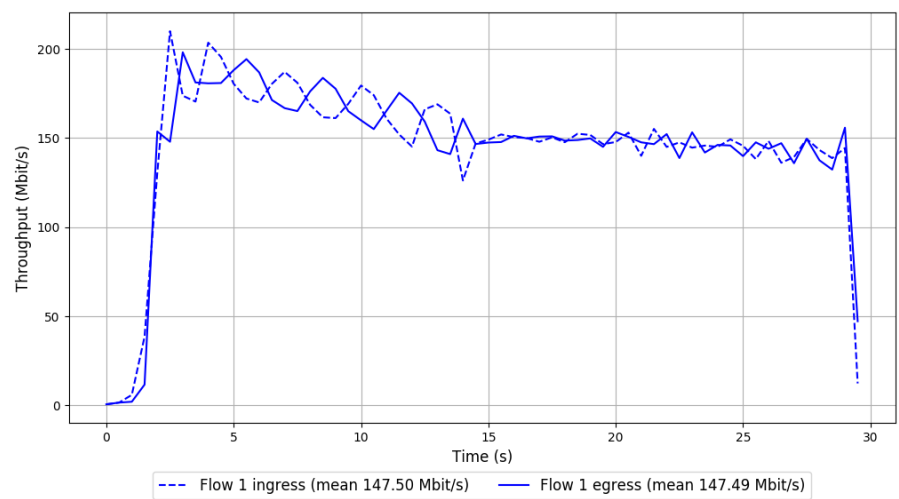
-- Flow 1:

Average throughput: 147.49 Mbit/s

95th percentile per-packet one-way delay: 136.840 ms

Loss rate: 0.00%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-03-21 02:41:54

End at: 2018-03-21 02:42:24

Below is generated by plot.py at 2018-03-21 05:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.17 Mbit/s

95th percentile per-packet one-way delay: 136.761 ms

Loss rate: 0.00%

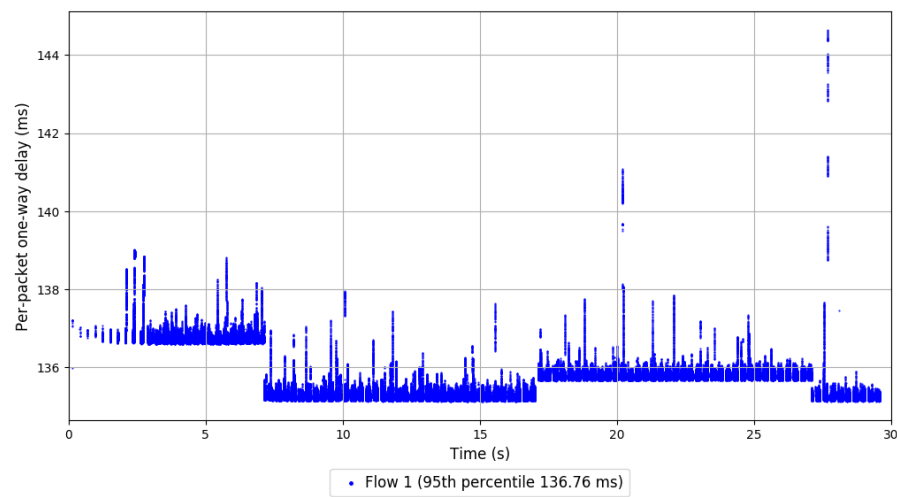
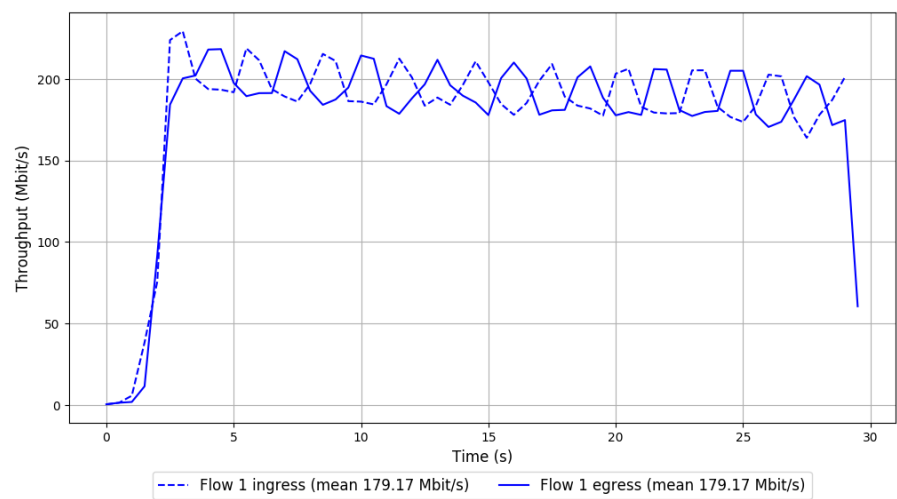
-- Flow 1:

Average throughput: 179.17 Mbit/s

95th percentile per-packet one-way delay: 136.761 ms

Loss rate: 0.00%

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

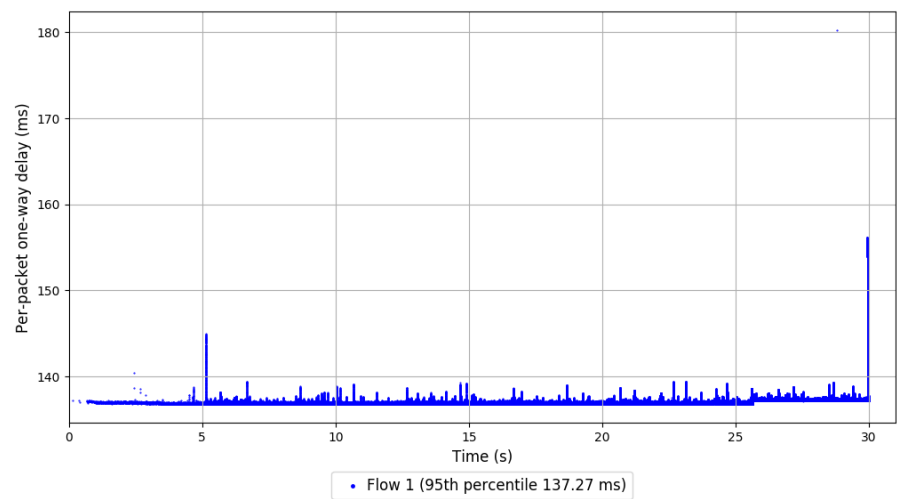
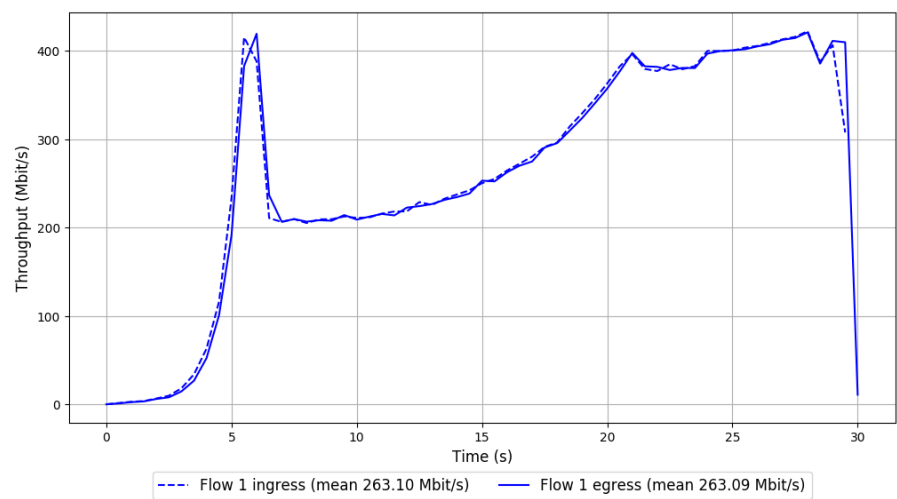


```
Run 1: Statistics of Vivace-latency

Start at: 2018-03-21 00:07:16
End at: 2018-03-21 00:07:46

# Below is generated by plot.py at 2018-03-21 05:00:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 263.09 Mbit/s
95th percentile per-packet one-way delay: 137.269 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 263.09 Mbit/s
95th percentile per-packet one-way delay: 137.269 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-03-21 00:23:27

End at: 2018-03-21 00:23:57

Below is generated by plot.py at 2018-03-21 05:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 309.58 Mbit/s

95th percentile per-packet one-way delay: 137.258 ms

Loss rate: 0.00%

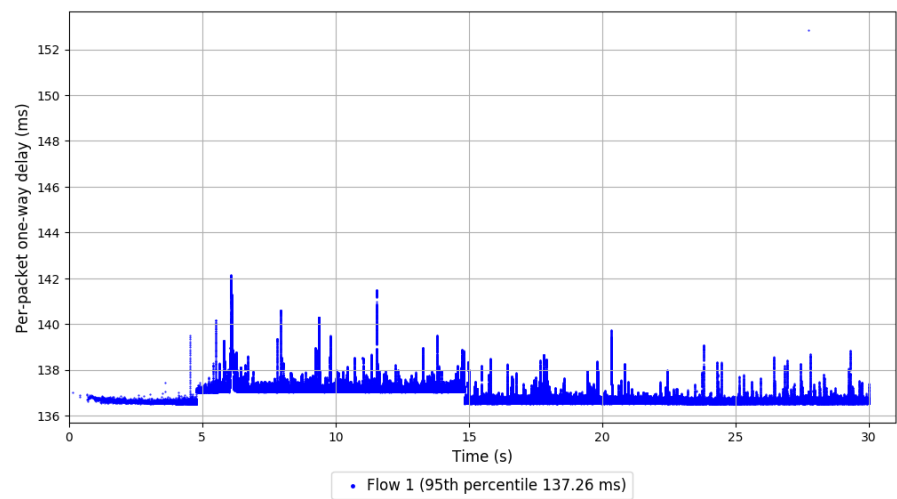
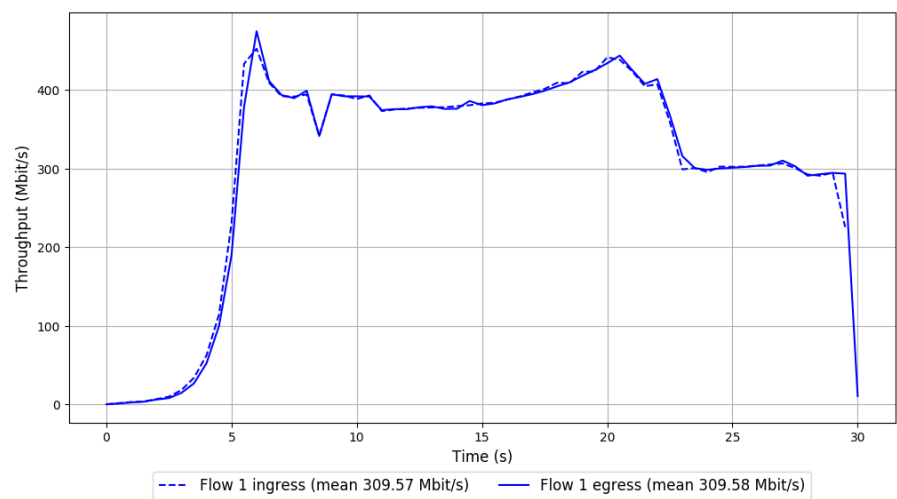
-- Flow 1:

Average throughput: 309.58 Mbit/s

95th percentile per-packet one-way delay: 137.258 ms

Loss rate: 0.00%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-03-21 00:39:33

End at: 2018-03-21 00:40:03

Below is generated by plot.py at 2018-03-21 05:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 262.63 Mbit/s

95th percentile per-packet one-way delay: 137.491 ms

Loss rate: 0.01%

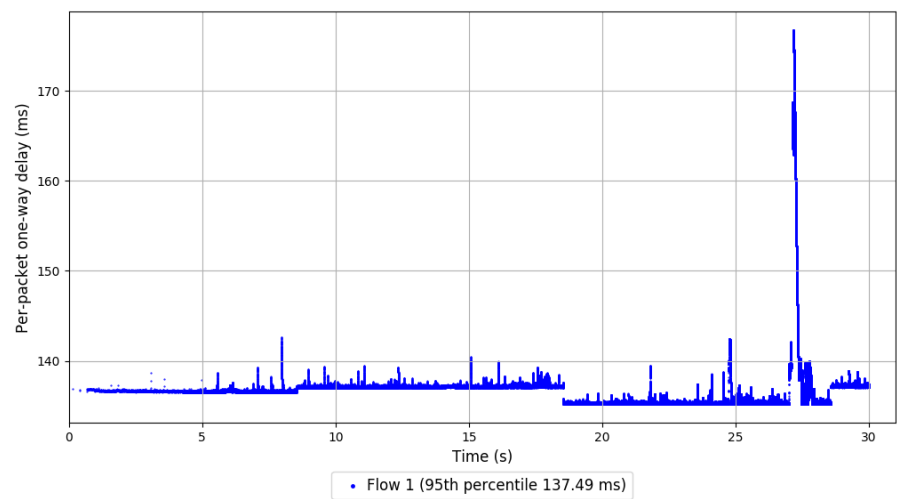
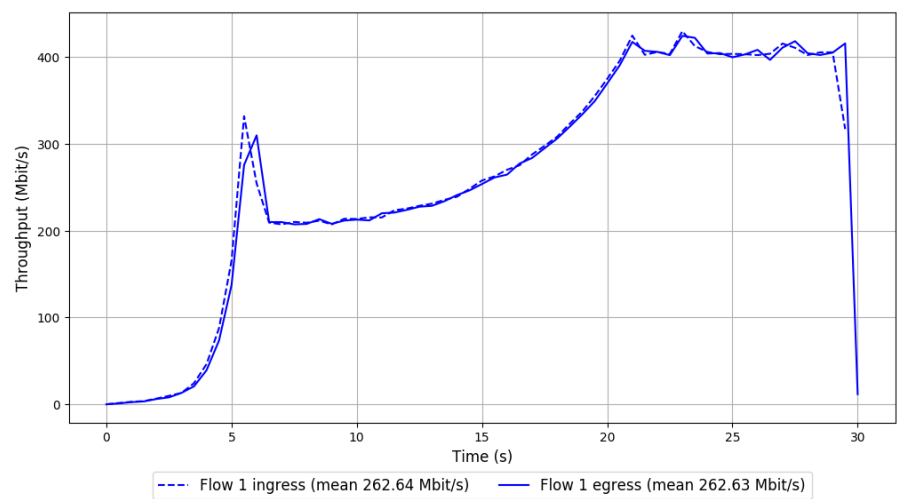
-- Flow 1:

Average throughput: 262.63 Mbit/s

95th percentile per-packet one-way delay: 137.491 ms

Loss rate: 0.01%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-03-21 00:55:37

End at: 2018-03-21 00:56:07

Below is generated by plot.py at 2018-03-21 05:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 301.59 Mbit/s

95th percentile per-packet one-way delay: 136.221 ms

Loss rate: 0.00%

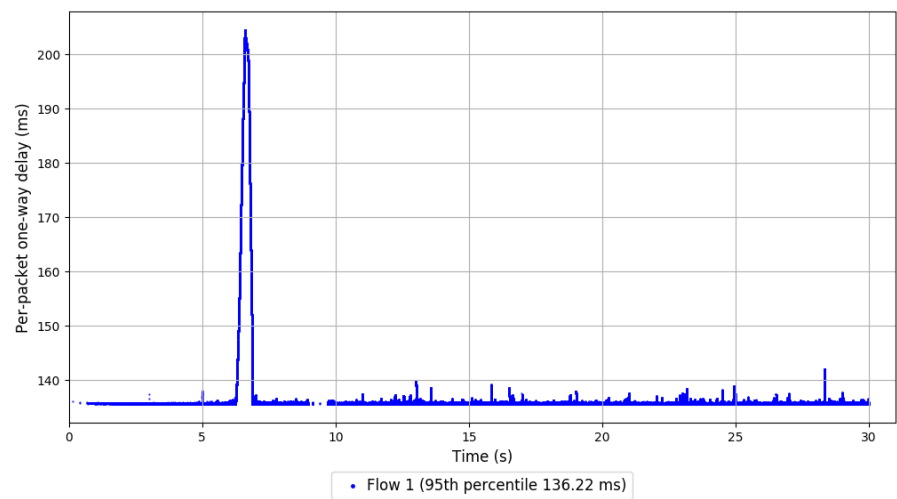
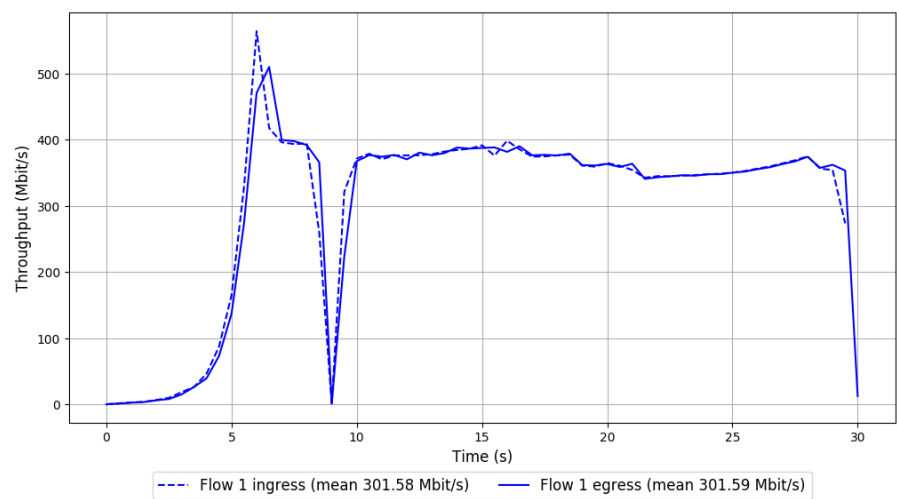
-- Flow 1:

Average throughput: 301.59 Mbit/s

95th percentile per-packet one-way delay: 136.221 ms

Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-03-21 01:11:49

End at: 2018-03-21 01:12:19

Below is generated by plot.py at 2018-03-21 05:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 324.34 Mbit/s

95th percentile per-packet one-way delay: 134.996 ms

Loss rate: 0.00%

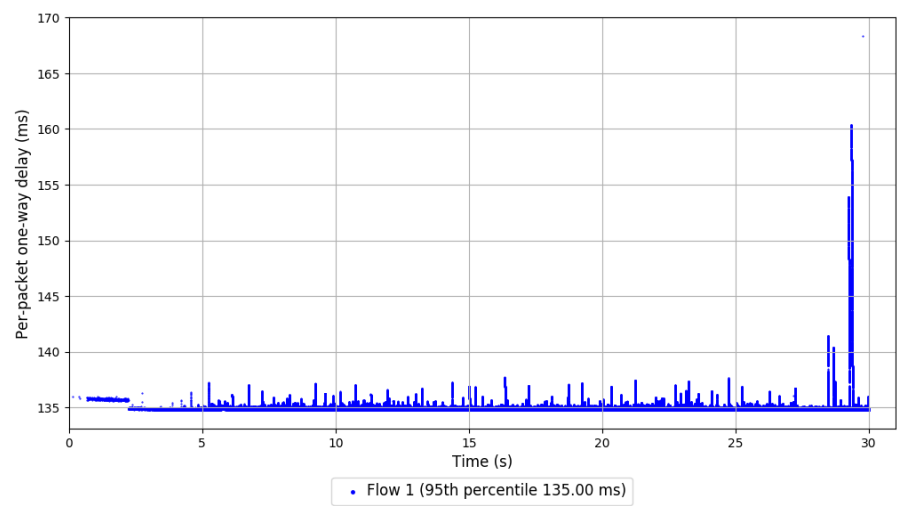
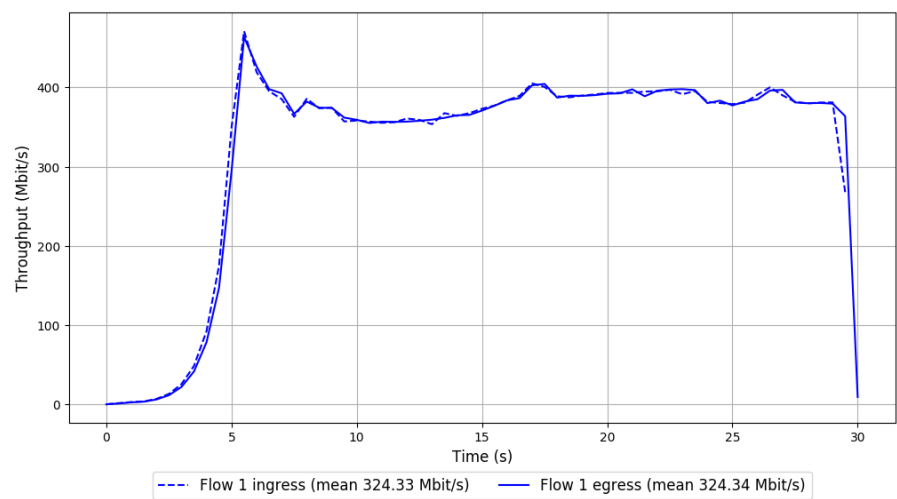
-- Flow 1:

Average throughput: 324.34 Mbit/s

95th percentile per-packet one-way delay: 134.996 ms

Loss rate: 0.00%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-03-21 01:27:49

End at: 2018-03-21 01:28:19

Below is generated by plot.py at 2018-03-21 05:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 259.84 Mbit/s

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

Loss rate: 0.00%

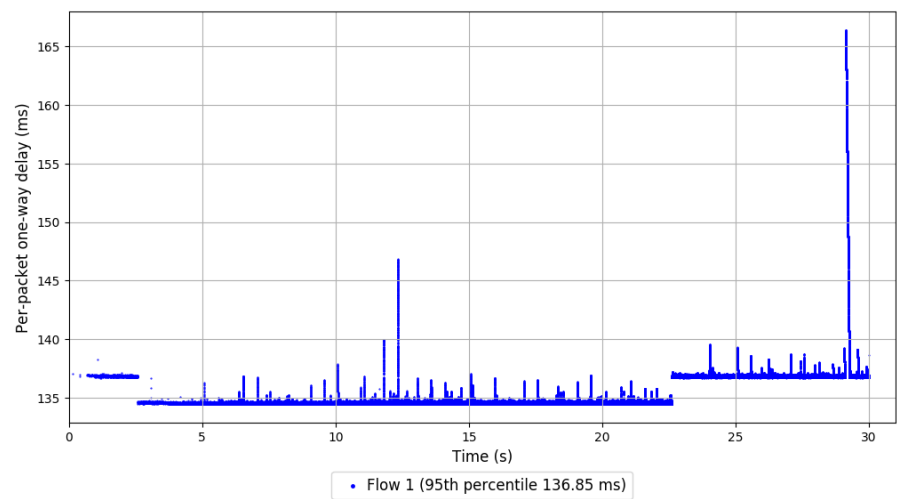
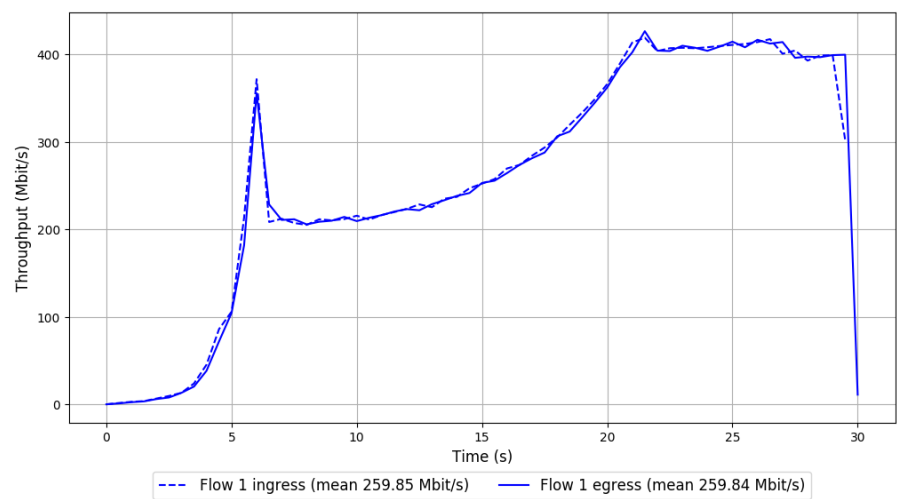
-- Flow 1:

Average throughput: 259.84 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-03-21 01:44:05

End at: 2018-03-21 01:44:35

Below is generated by plot.py at 2018-03-21 05:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 315.08 Mbit/s

95th percentile per-packet one-way delay: 136.832 ms

Loss rate: 0.00%

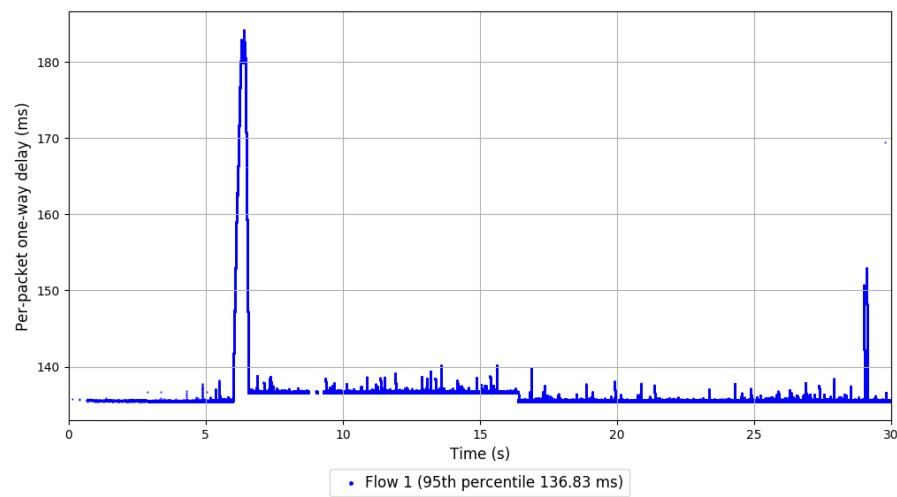
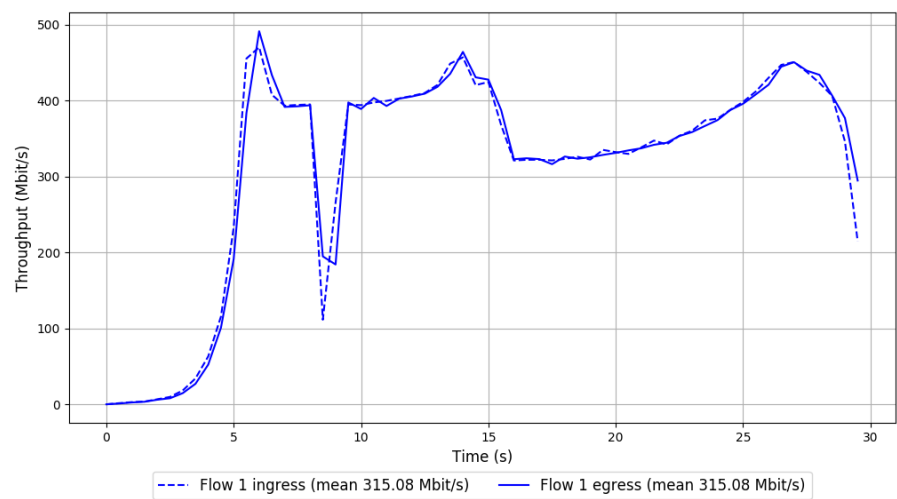
-- Flow 1:

Average throughput: 315.08 Mbit/s

95th percentile per-packet one-way delay: 136.832 ms

Loss rate: 0.00%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-03-21 01:59:58

End at: 2018-03-21 02:00:28

Below is generated by plot.py at 2018-03-21 05:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 251.09 Mbit/s

95th percentile per-packet one-way delay: 135.754 ms

Loss rate: 0.00%

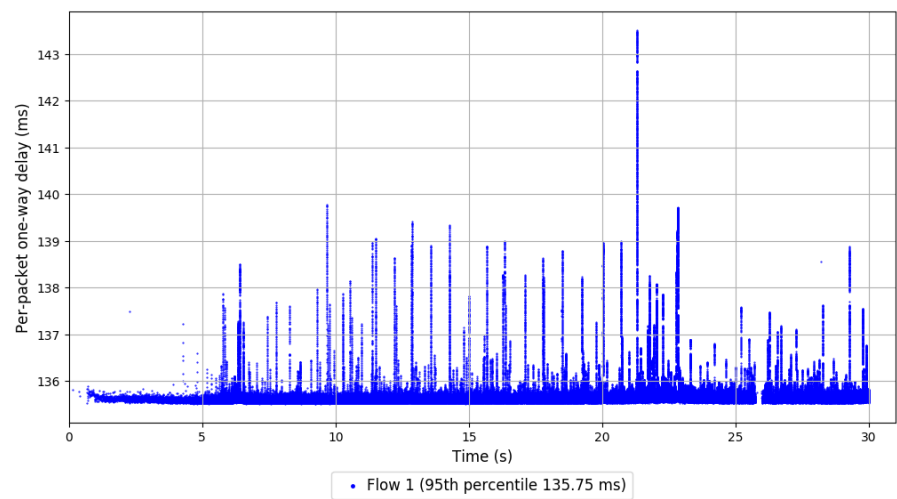
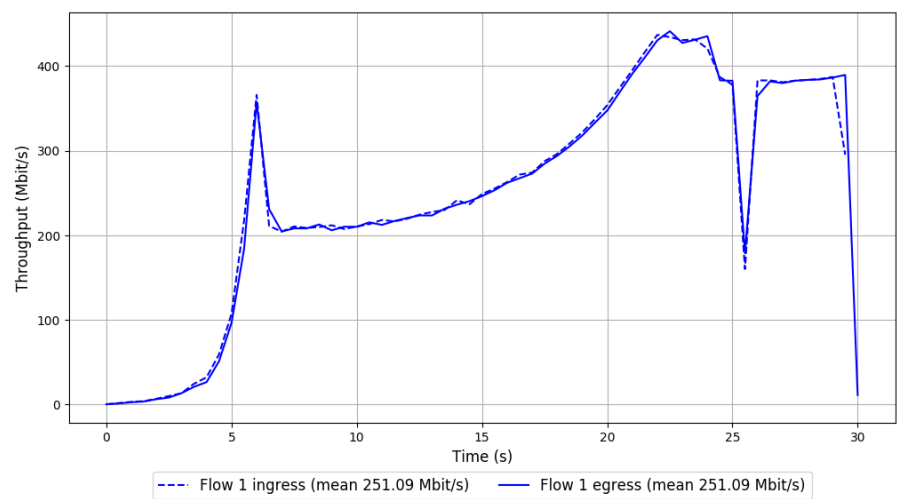
-- Flow 1:

Average throughput: 251.09 Mbit/s

95th percentile per-packet one-way delay: 135.754 ms

Loss rate: 0.00%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-03-21 02:15:50

End at: 2018-03-21 02:16:20

Below is generated by plot.py at 2018-03-21 05:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 346.54 Mbit/s

95th percentile per-packet one-way delay: 135.013 ms

Loss rate: 0.00%

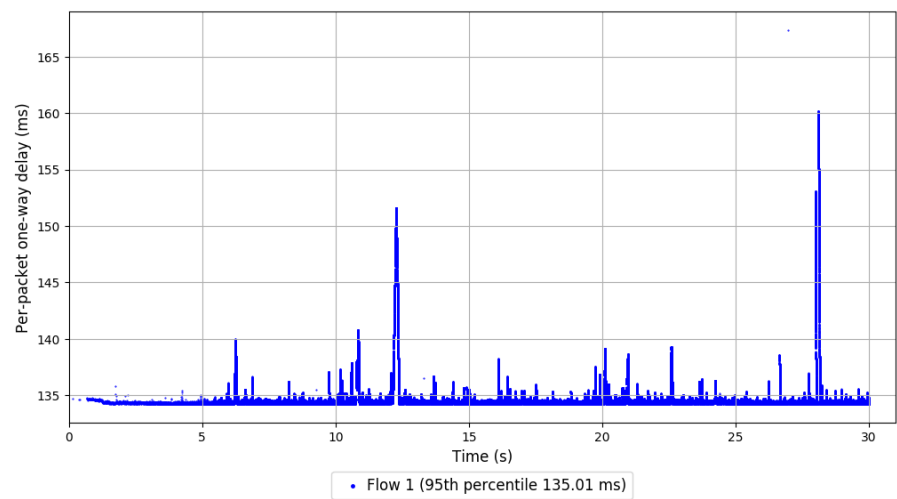
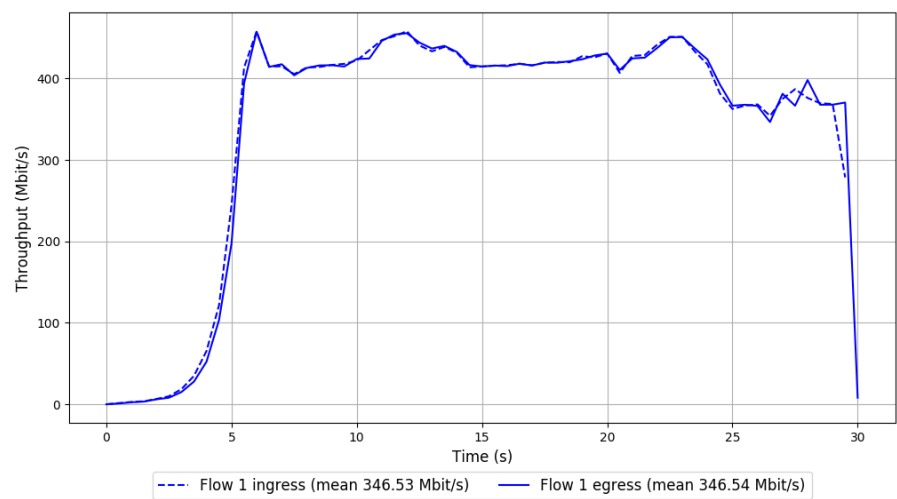
-- Flow 1:

Average throughput: 346.54 Mbit/s

95th percentile per-packet one-way delay: 135.013 ms

Loss rate: 0.00%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-03-21 02:32:09

End at: 2018-03-21 02:32:39

Below is generated by plot.py at 2018-03-21 05:00:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 335.26 Mbit/s

95th percentile per-packet one-way delay: 137.030 ms

Loss rate: 0.00%

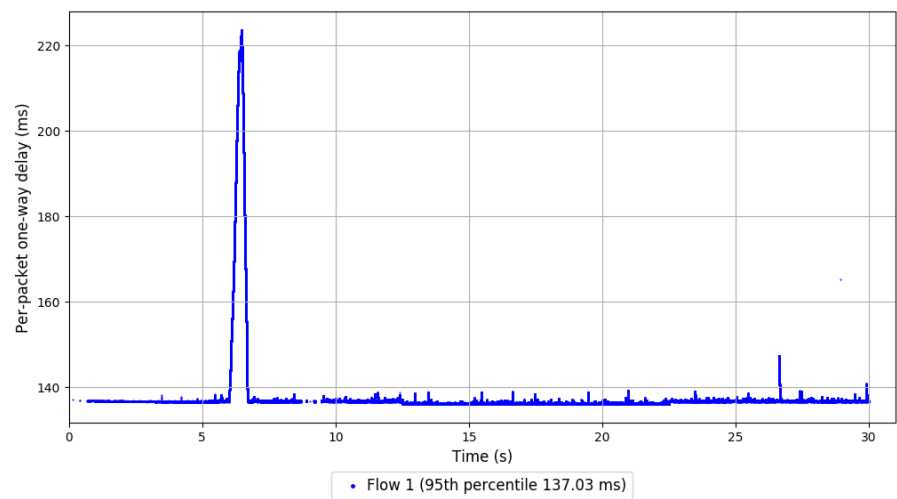
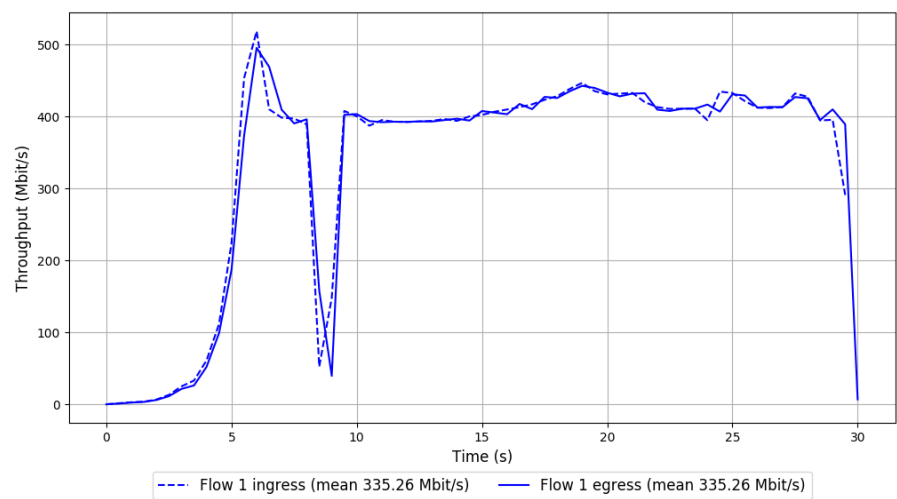
-- Flow 1:

Average throughput: 335.26 Mbit/s

95th percentile per-packet one-way delay: 137.030 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

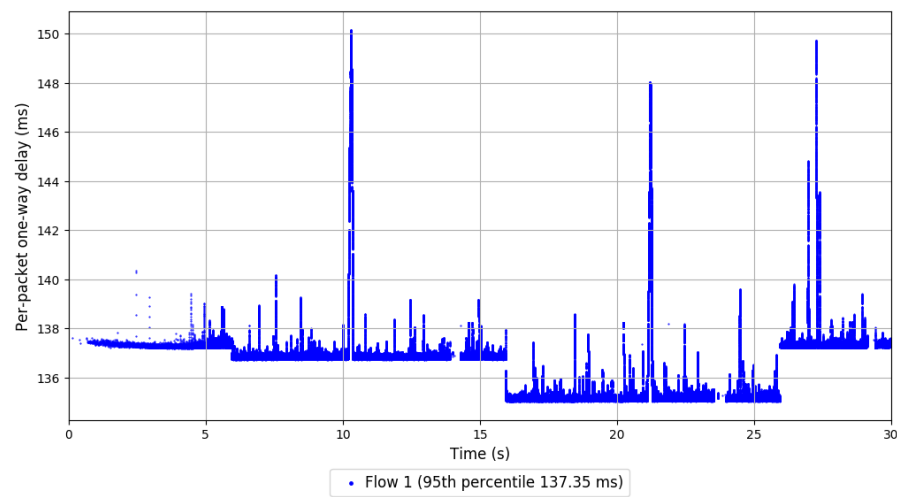
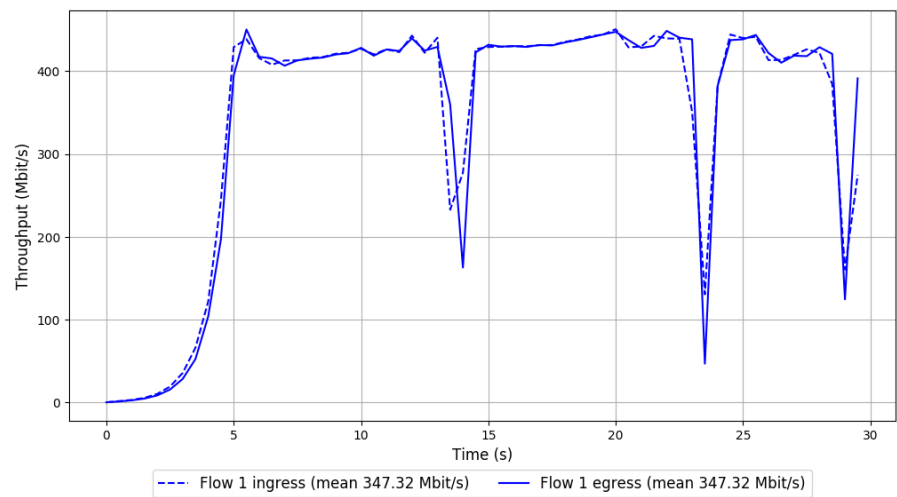


```
Run 1: Statistics of Vivace-loss

Start at: 2018-03-21 00:05:25
End at: 2018-03-21 00:05:55

# Below is generated by plot.py at 2018-03-21 05:00:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 347.32 Mbit/s
95th percentile per-packet one-way delay: 137.348 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 347.32 Mbit/s
95th percentile per-packet one-way delay: 137.348 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-loss — Data Link

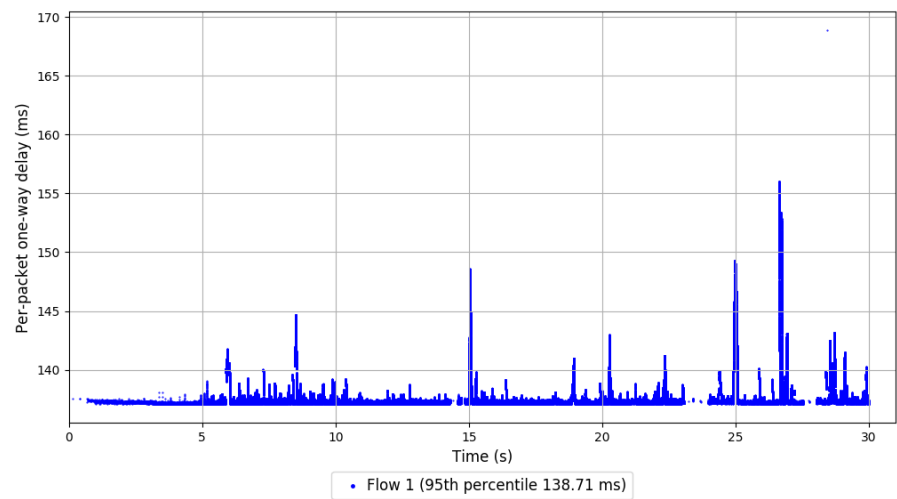
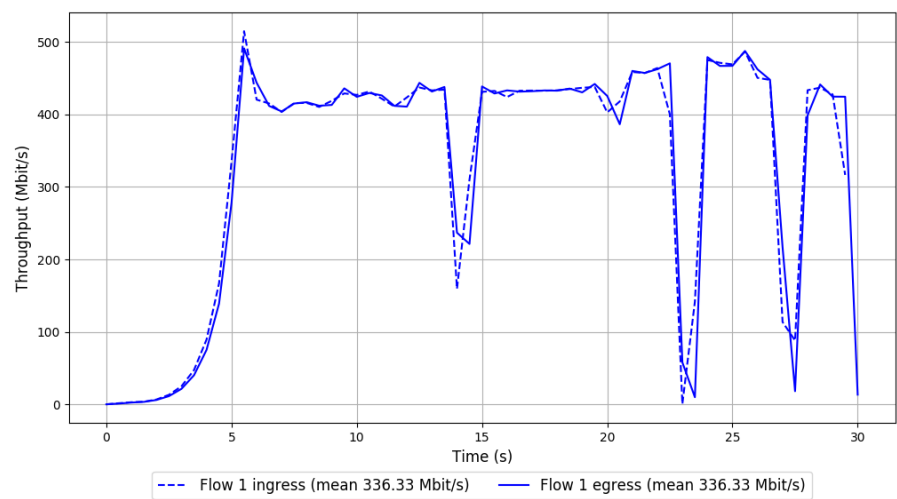


```
Run 2: Statistics of Vivace-loss

Start at: 2018-03-21 00:21:32
End at: 2018-03-21 00:22:02

# Below is generated by plot.py at 2018-03-21 05:01:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 336.33 Mbit/s
95th percentile per-packet one-way delay: 138.705 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 336.33 Mbit/s
95th percentile per-packet one-way delay: 138.705 ms
Loss rate: 0.00%
```

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-03-21 00:37:38

End at: 2018-03-21 00:38:08

Below is generated by plot.py at 2018-03-21 05:03:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 344.99 Mbit/s

95th percentile per-packet one-way delay: 136.293 ms

Loss rate: 0.00%

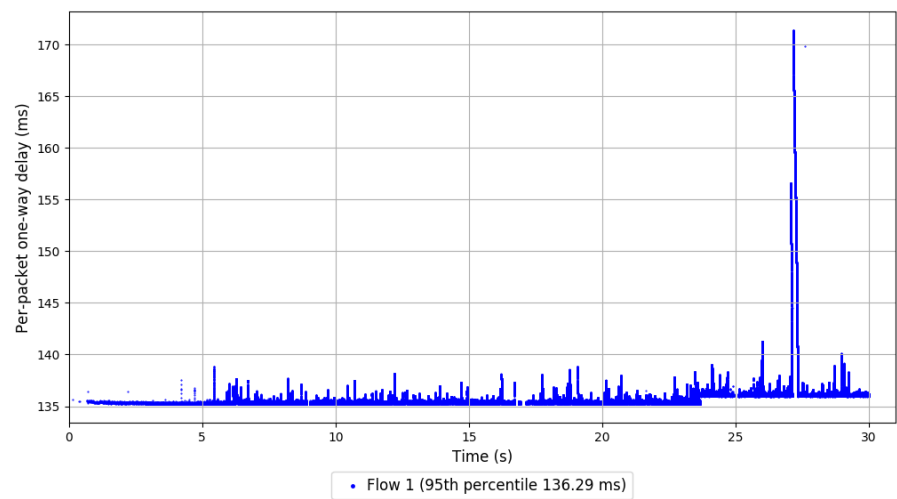
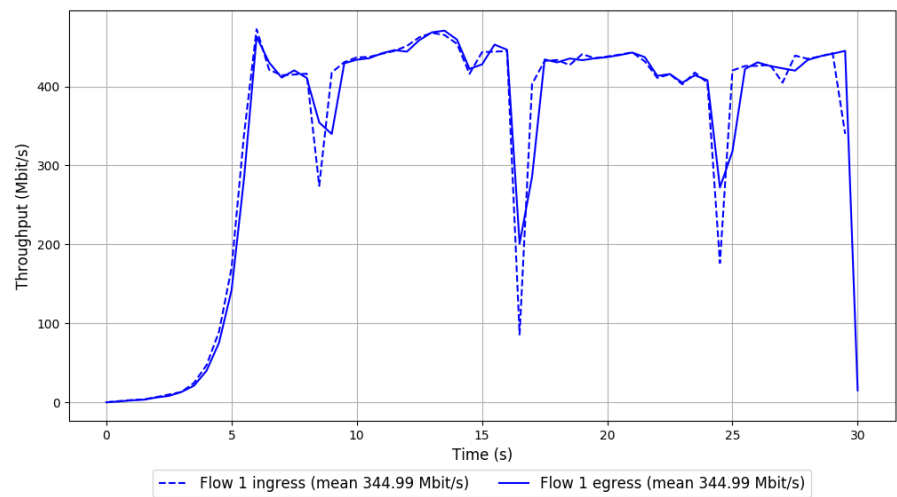
-- Flow 1:

Average throughput: 344.99 Mbit/s

95th percentile per-packet one-way delay: 136.293 ms

Loss rate: 0.00%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-03-21 00:53:48

End at: 2018-03-21 00:54:18

Below is generated by plot.py at 2018-03-21 05:03:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.42 Mbit/s

95th percentile per-packet one-way delay: 137.968 ms

Loss rate: 0.00%

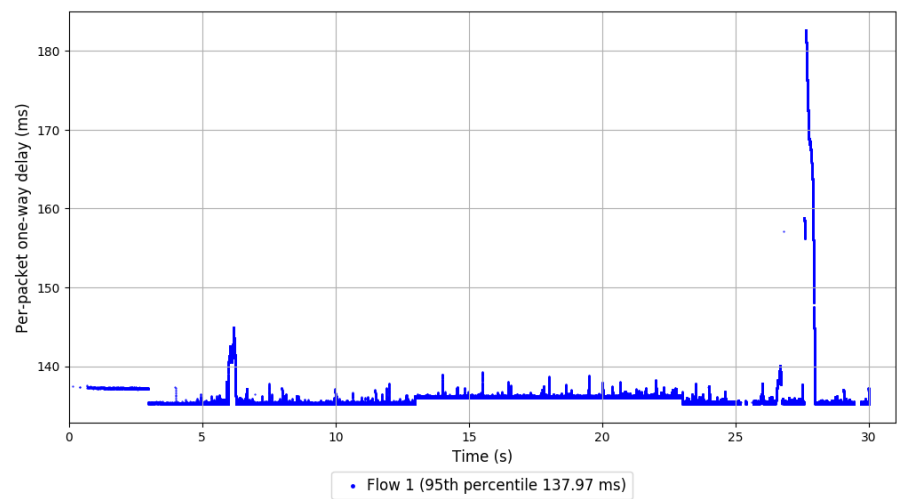
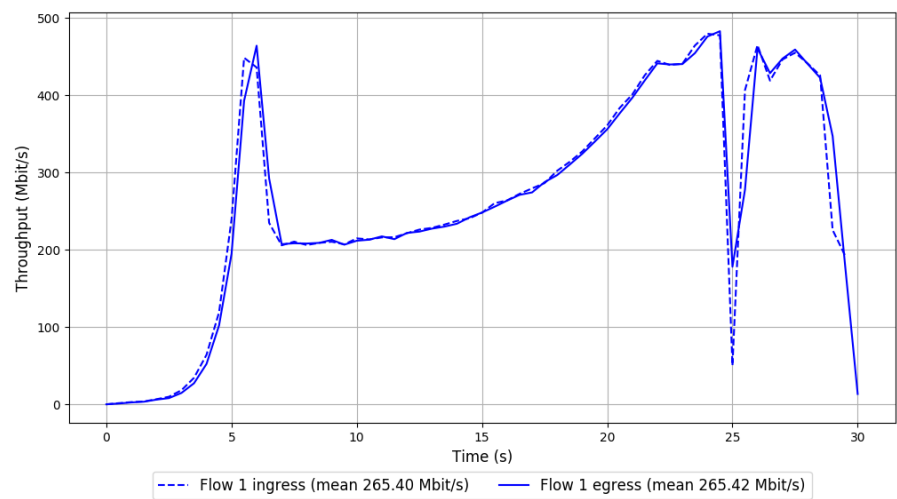
-- Flow 1:

Average throughput: 265.42 Mbit/s

95th percentile per-packet one-way delay: 137.968 ms

Loss rate: 0.00%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-03-21 01:10:00

End at: 2018-03-21 01:10:30

Below is generated by plot.py at 2018-03-21 05:04:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 262.03 Mbit/s

95th percentile per-packet one-way delay: 135.351 ms

Loss rate: 0.00%

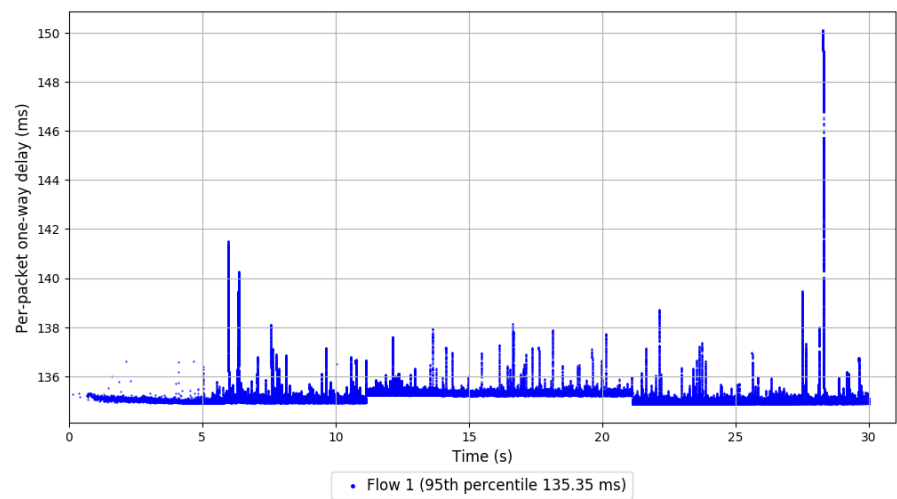
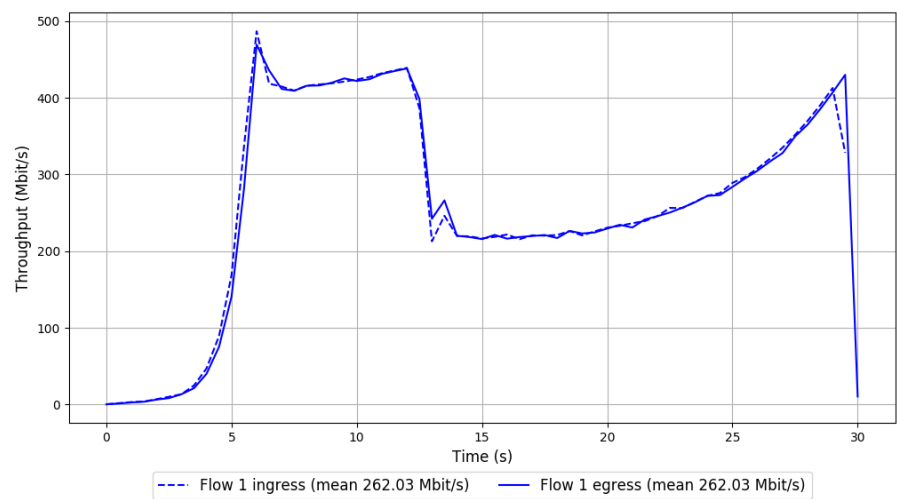
-- Flow 1:

Average throughput: 262.03 Mbit/s

95th percentile per-packet one-way delay: 135.351 ms

Loss rate: 0.00%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-03-21 01:25:54

End at: 2018-03-21 01:26:24

Below is generated by plot.py at 2018-03-21 05:06:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 344.33 Mbit/s

95th percentile per-packet one-way delay: 135.882 ms

Loss rate: 0.00%

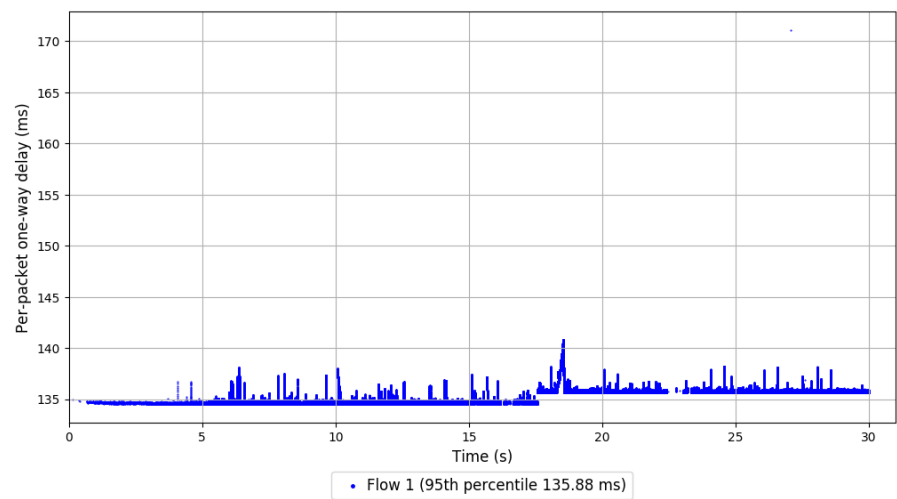
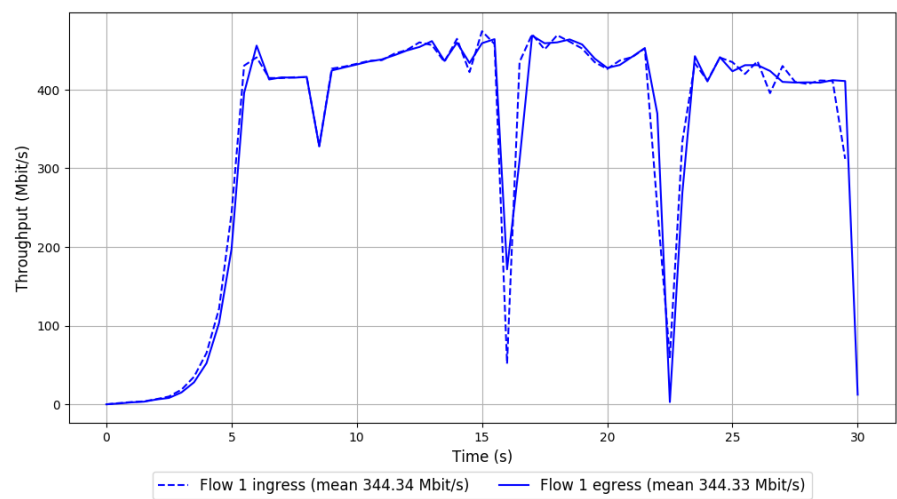
-- Flow 1:

Average throughput: 344.33 Mbit/s

95th percentile per-packet one-way delay: 135.882 ms

Loss rate: 0.00%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-03-21 01:42:10

End at: 2018-03-21 01:42:40

Below is generated by plot.py at 2018-03-21 05:06:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 343.84 Mbit/s

95th percentile per-packet one-way delay: 136.859 ms

Loss rate: 0.00%

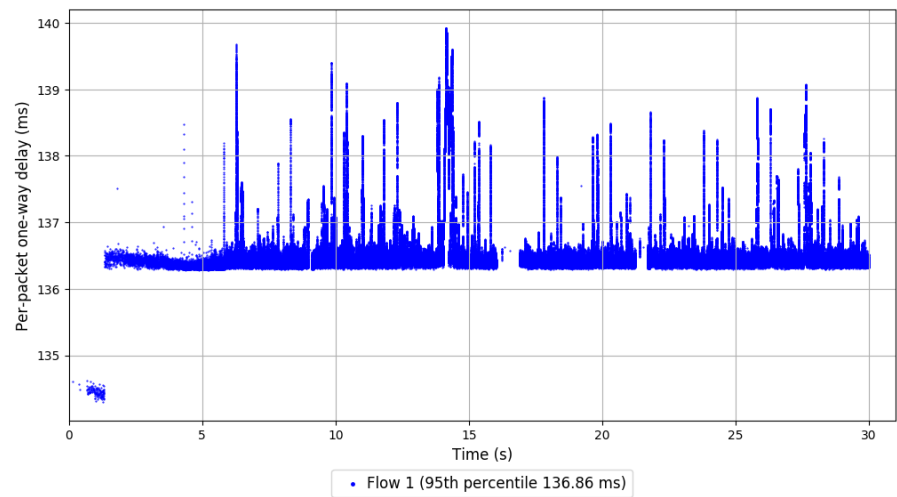
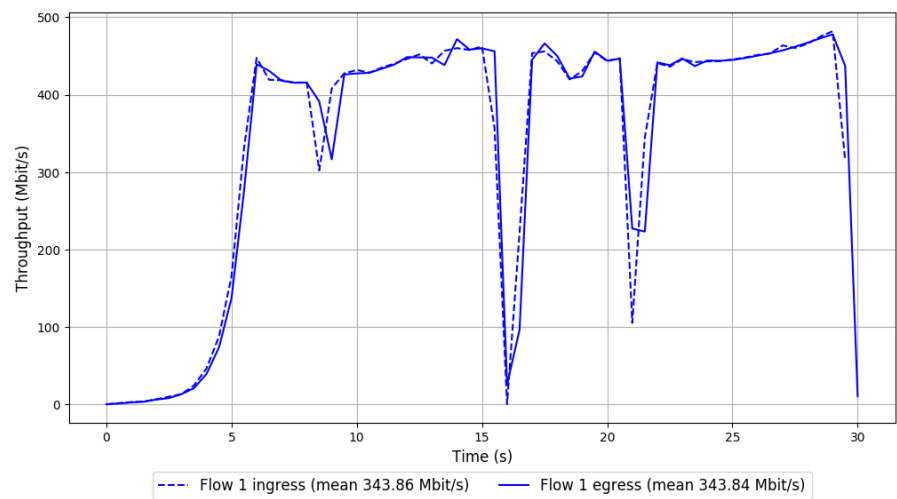
-- Flow 1:

Average throughput: 343.84 Mbit/s

95th percentile per-packet one-way delay: 136.859 ms

Loss rate: 0.00%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-03-21 01:58:07

End at: 2018-03-21 01:58:37

Below is generated by plot.py at 2018-03-21 05:06:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 357.18 Mbit/s

95th percentile per-packet one-way delay: 135.865 ms

Loss rate: 0.00%

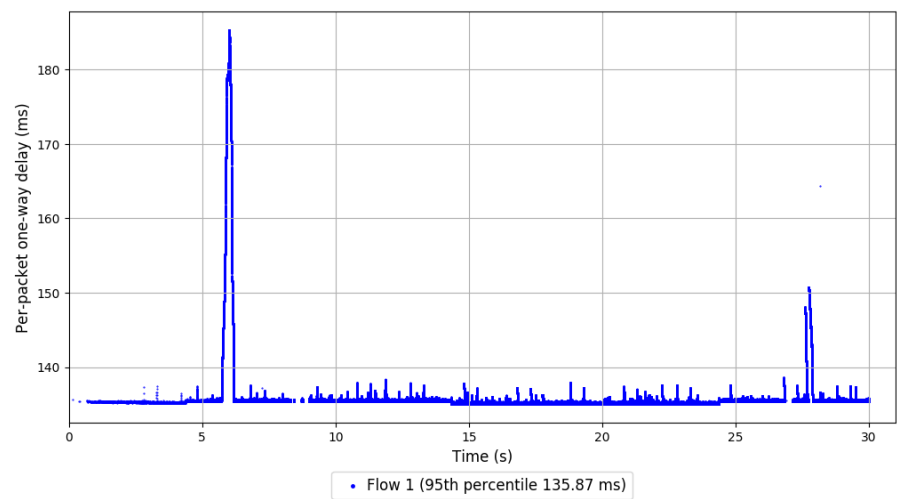
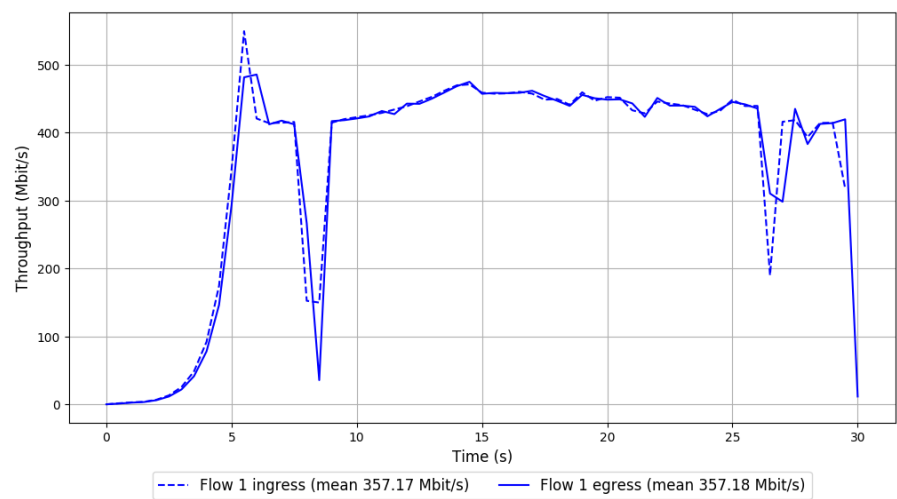
-- Flow 1:

Average throughput: 357.18 Mbit/s

95th percentile per-packet one-way delay: 135.865 ms

Loss rate: 0.00%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-03-21 02:13:59

End at: 2018-03-21 02:14:29

Below is generated by plot.py at 2018-03-21 05:06:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.24 Mbit/s

95th percentile per-packet one-way delay: 135.874 ms

Loss rate: 0.00%

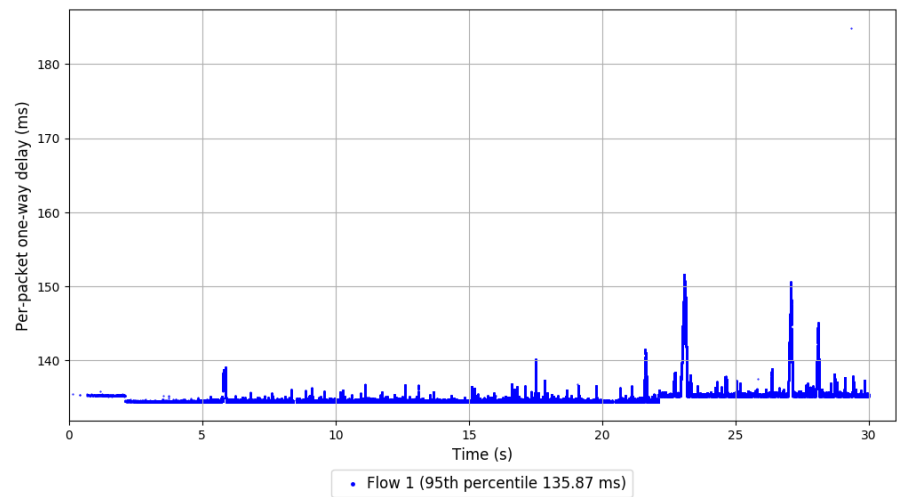
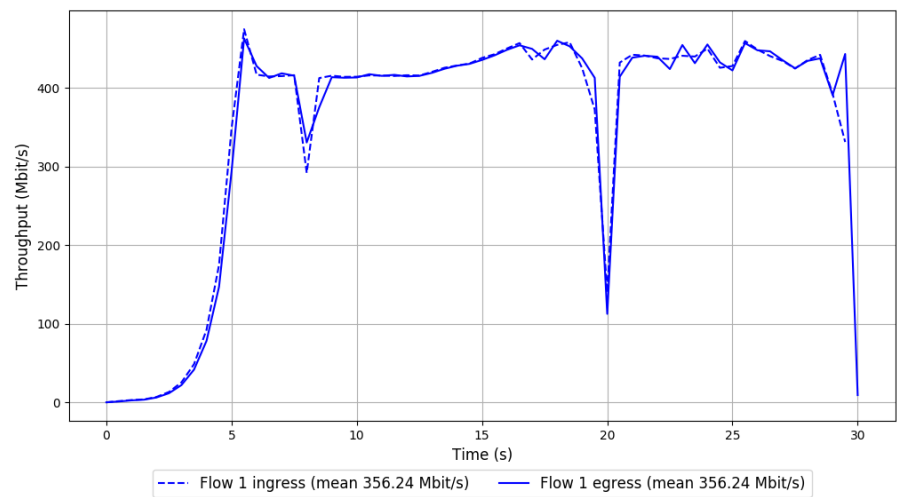
-- Flow 1:

Average throughput: 356.24 Mbit/s

95th percentile per-packet one-way delay: 135.874 ms

Loss rate: 0.00%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-03-21 02:30:13

End at: 2018-03-21 02:30:43

Below is generated by plot.py at 2018-03-21 05:07:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 347.37 Mbit/s

95th percentile per-packet one-way delay: 136.294 ms

Loss rate: 0.00%

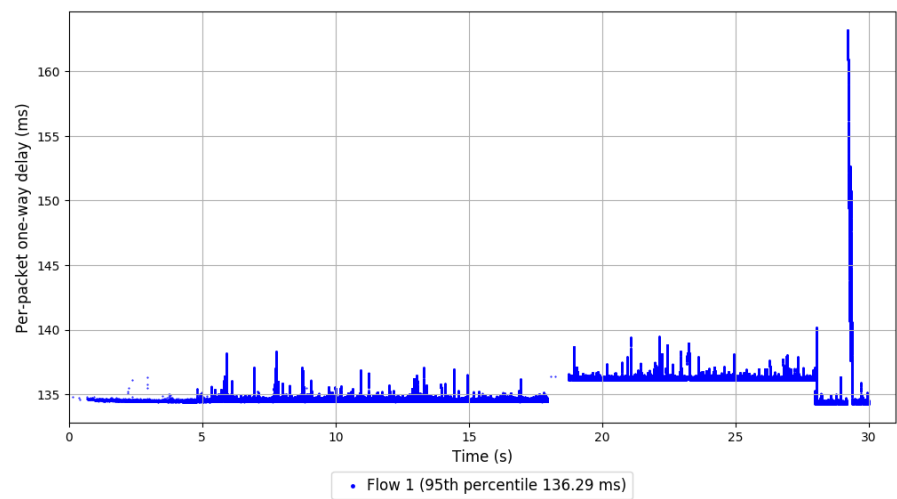
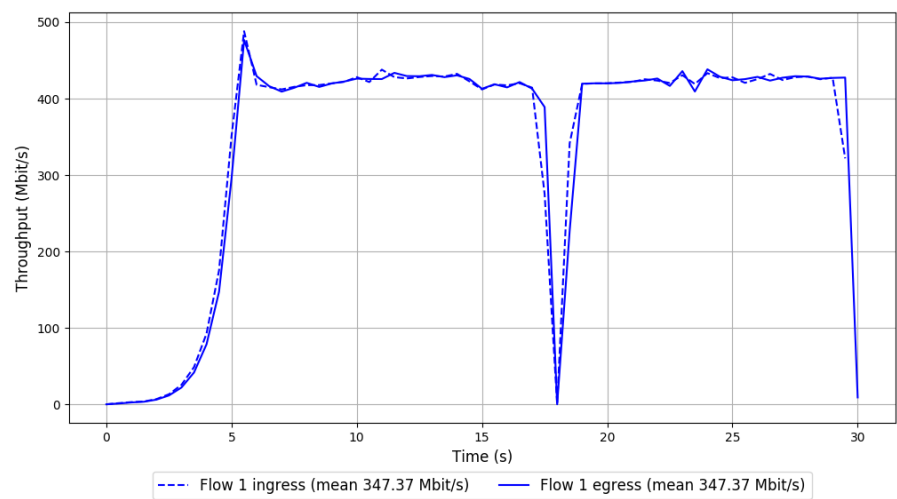
-- Flow 1:

Average throughput: 347.37 Mbit/s

95th percentile per-packet one-way delay: 136.294 ms

Loss rate: 0.00%

Run 10: Report of Vivace-loss — Data Link

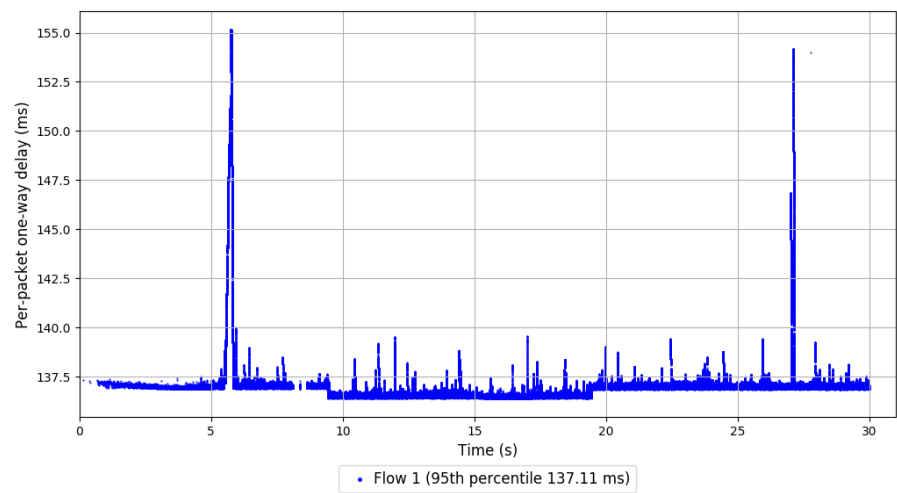
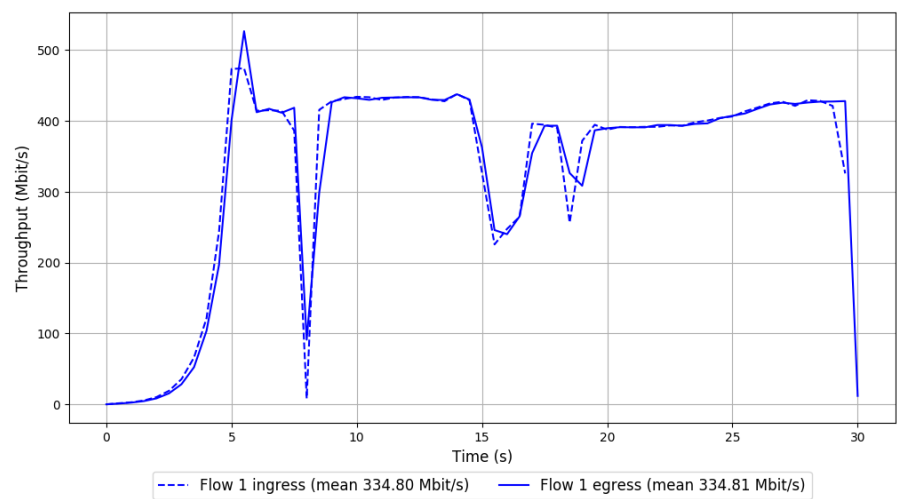


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-03-21 00:12:42
End at: 2018-03-21 00:13:12

# Below is generated by plot.py at 2018-03-21 05:09:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 334.81 Mbit/s
95th percentile per-packet one-way delay: 137.106 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 334.81 Mbit/s
95th percentile per-packet one-way delay: 137.106 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-03-21 00:29:07

End at: 2018-03-21 00:29:37

Below is generated by plot.py at 2018-03-21 05:09:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 351.35 Mbit/s

95th percentile per-packet one-way delay: 137.166 ms

Loss rate: 0.00%

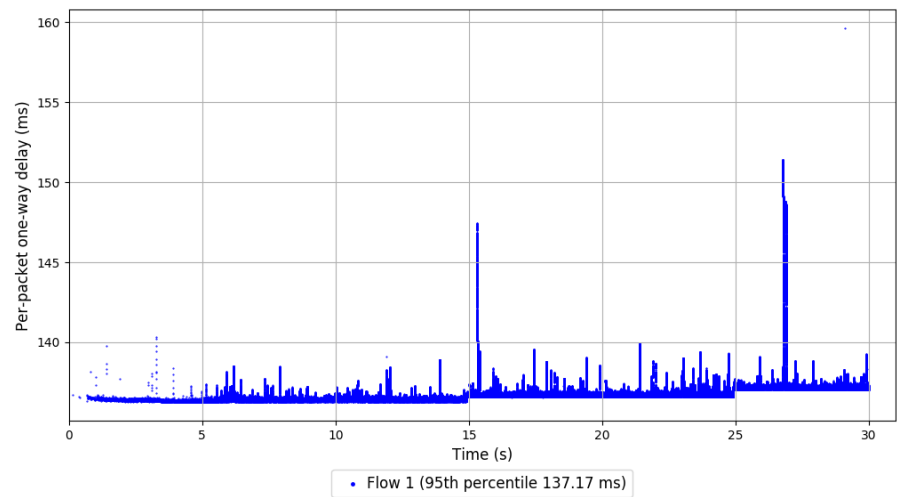
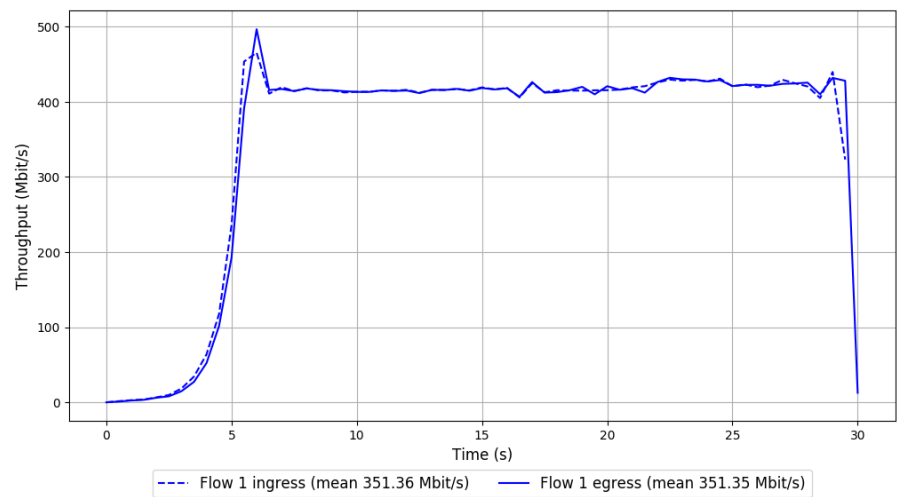
-- Flow 1:

Average throughput: 351.35 Mbit/s

95th percentile per-packet one-way delay: 137.166 ms

Loss rate: 0.00%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-03-21 00:44:59

End at: 2018-03-21 00:45:29

Below is generated by plot.py at 2018-03-21 05:10:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 331.62 Mbit/s

95th percentile per-packet one-way delay: 136.943 ms

Loss rate: 0.00%

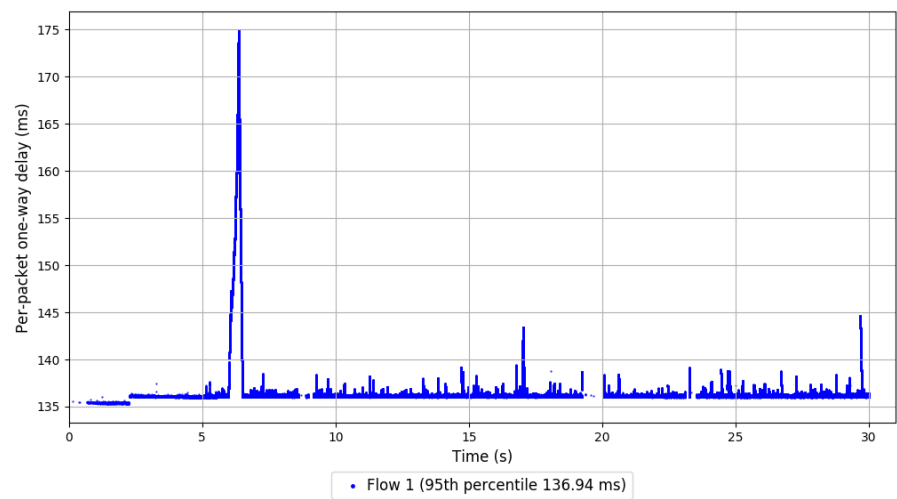
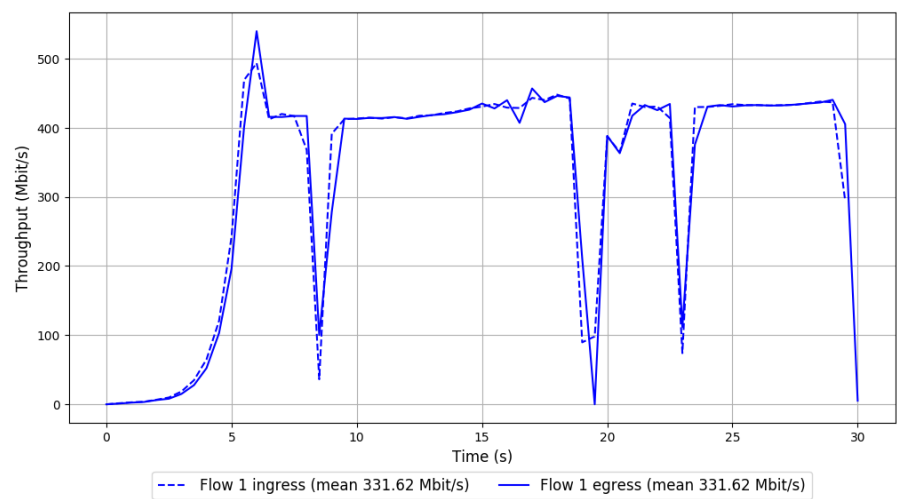
-- Flow 1:

Average throughput: 331.62 Mbit/s

95th percentile per-packet one-way delay: 136.943 ms

Loss rate: 0.00%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-03-21 01:01:14

End at: 2018-03-21 01:01:44

Below is generated by plot.py at 2018-03-21 05:12:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 342.42 Mbit/s

95th percentile per-packet one-way delay: 136.947 ms

Loss rate: 0.00%

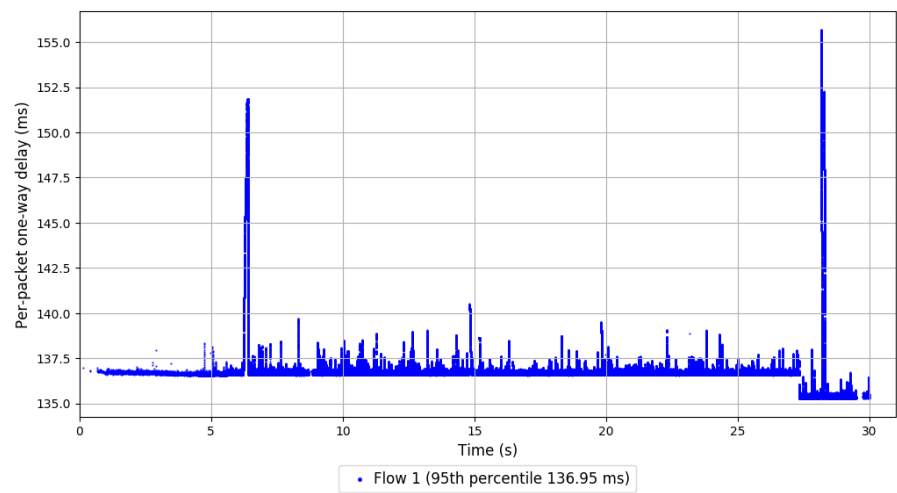
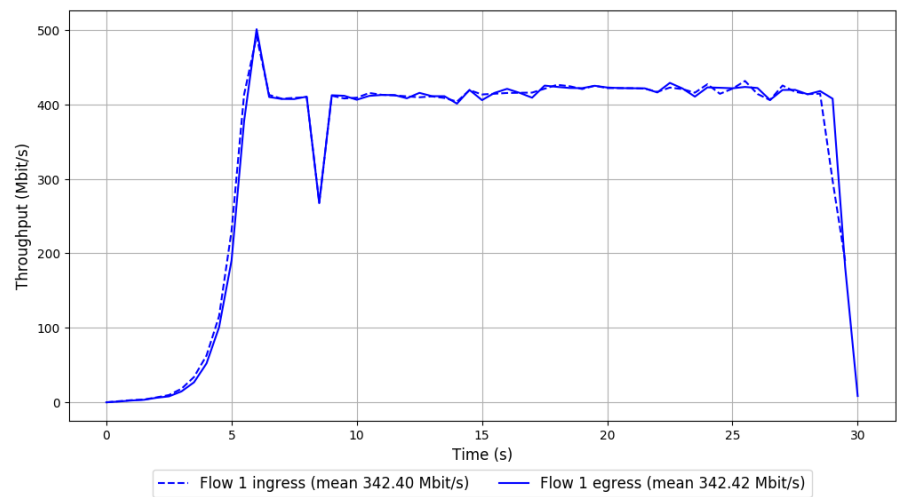
-- Flow 1:

Average throughput: 342.42 Mbit/s

95th percentile per-packet one-way delay: 136.947 ms

Loss rate: 0.00%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-03-21 01:17:27

End at: 2018-03-21 01:17:57

Below is generated by plot.py at 2018-03-21 05:12:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 343.95 Mbit/s

95th percentile per-packet one-way delay: 135.812 ms

Loss rate: 0.00%

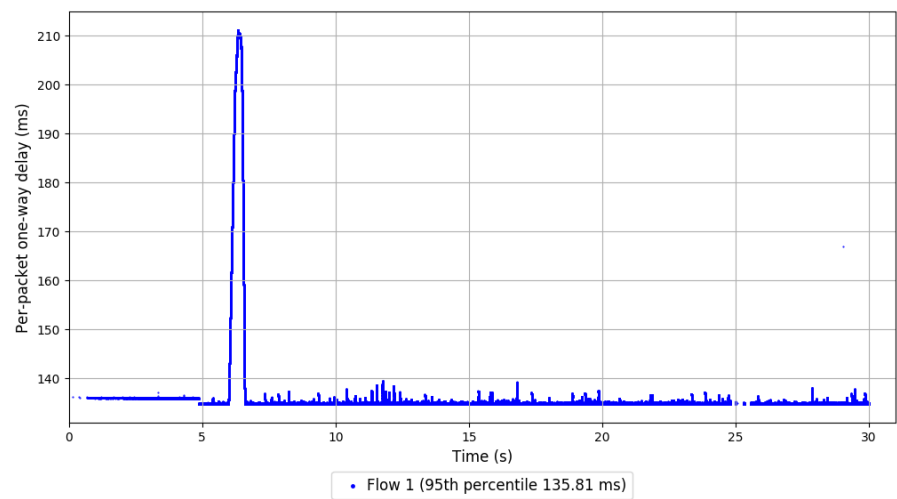
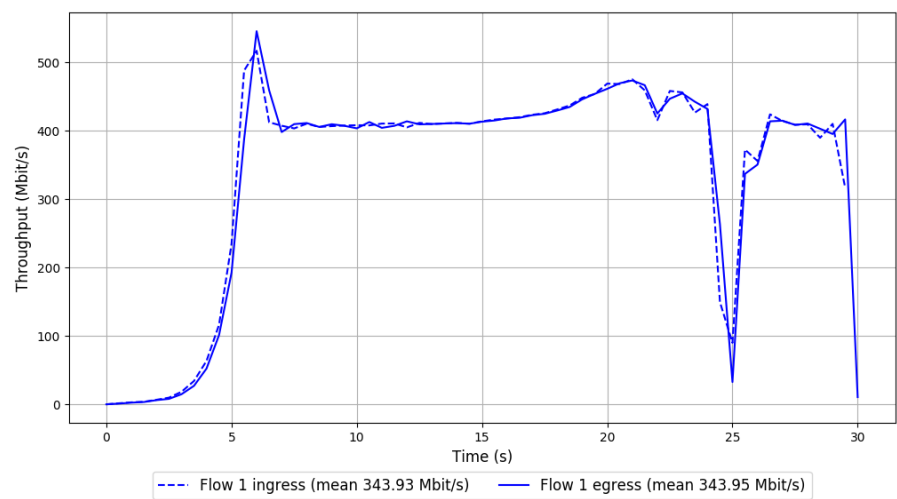
-- Flow 1:

Average throughput: 343.95 Mbit/s

95th percentile per-packet one-way delay: 135.812 ms

Loss rate: 0.00%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-03-21 01:33:22

End at: 2018-03-21 01:33:52

Below is generated by plot.py at 2018-03-21 05:12:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.37 Mbit/s

95th percentile per-packet one-way delay: 134.952 ms

Loss rate: 0.00%

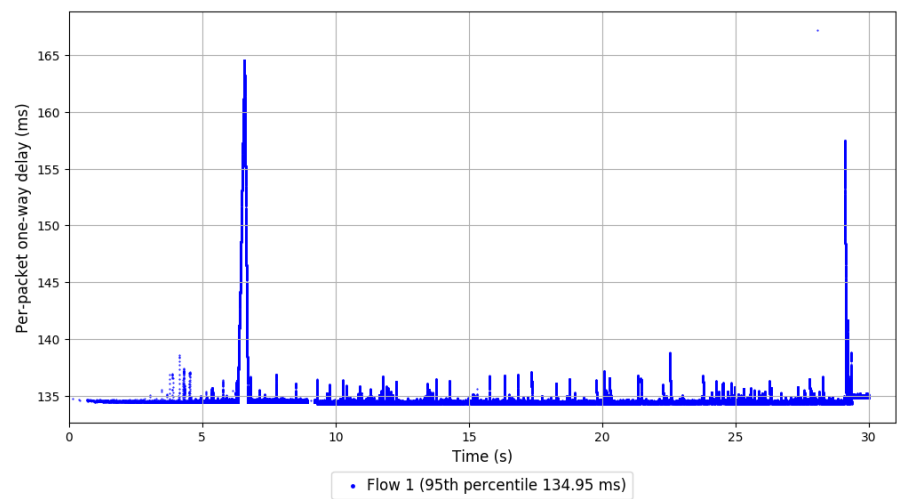
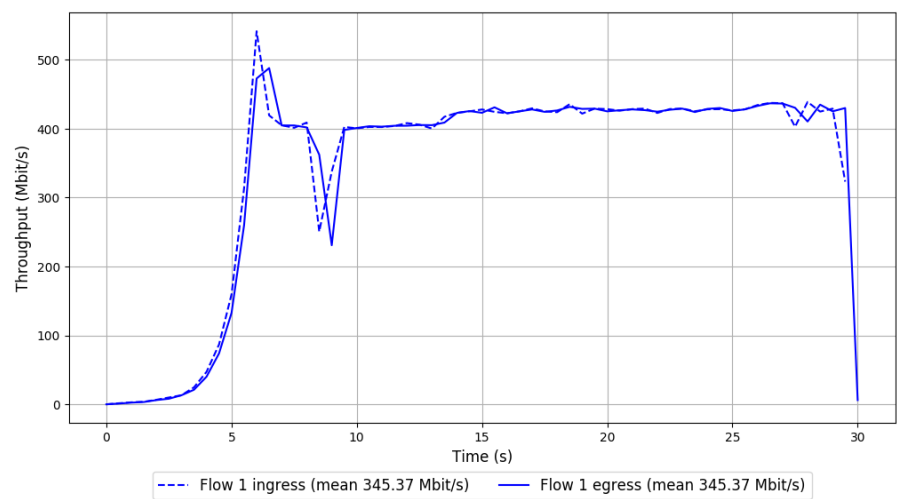
-- Flow 1:

Average throughput: 345.37 Mbit/s

95th percentile per-packet one-way delay: 134.952 ms

Loss rate: 0.00%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-03-21 01:49:38

End at: 2018-03-21 01:50:08

Below is generated by plot.py at 2018-03-21 05:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 338.54 Mbit/s

95th percentile per-packet one-way delay: 139.083 ms

Loss rate: 0.00%

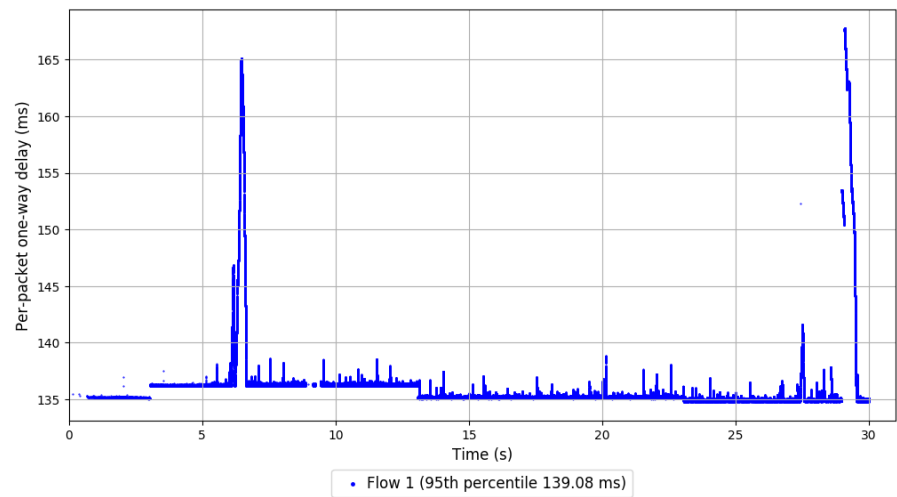
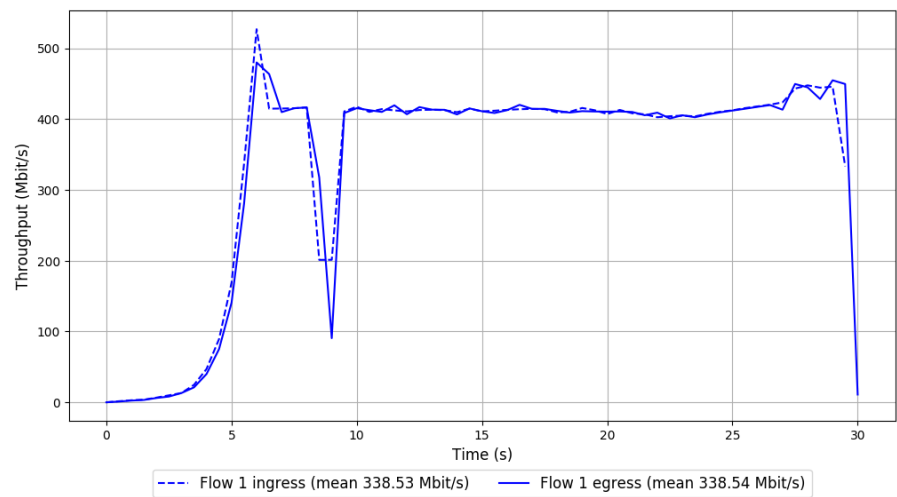
-- Flow 1:

Average throughput: 338.54 Mbit/s

95th percentile per-packet one-way delay: 139.083 ms

Loss rate: 0.00%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-03-21 02:05:33

End at: 2018-03-21 02:06:03

Below is generated by plot.py at 2018-03-21 05:12:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 326.45 Mbit/s

95th percentile per-packet one-way delay: 137.216 ms

Loss rate: 0.00%

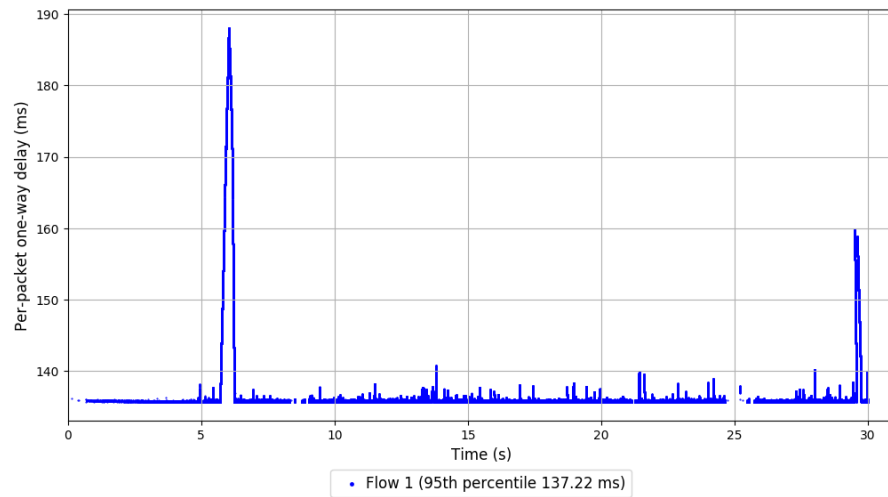
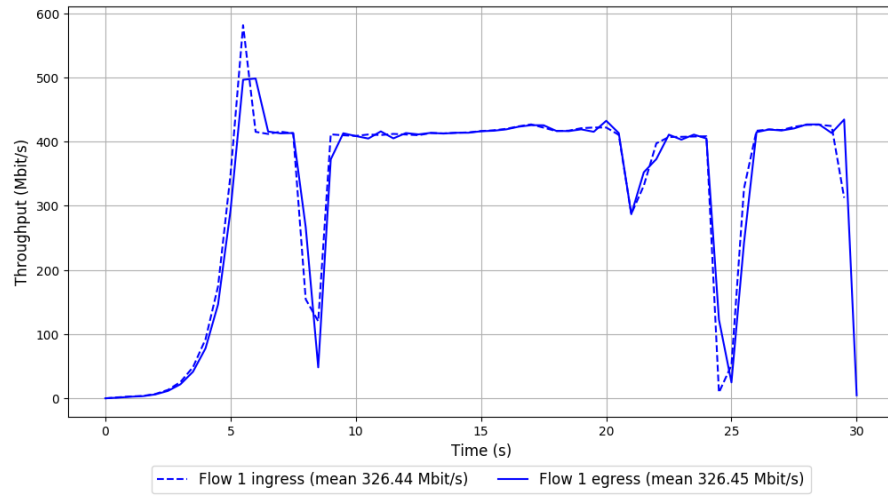
-- Flow 1:

Average throughput: 326.45 Mbit/s

95th percentile per-packet one-way delay: 137.216 ms

Loss rate: 0.00%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-03-21 02:21:25

End at: 2018-03-21 02:21:55

Below is generated by plot.py at 2018-03-21 05:12:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 346.06 Mbit/s

95th percentile per-packet one-way delay: 135.916 ms

Loss rate: 0.00%

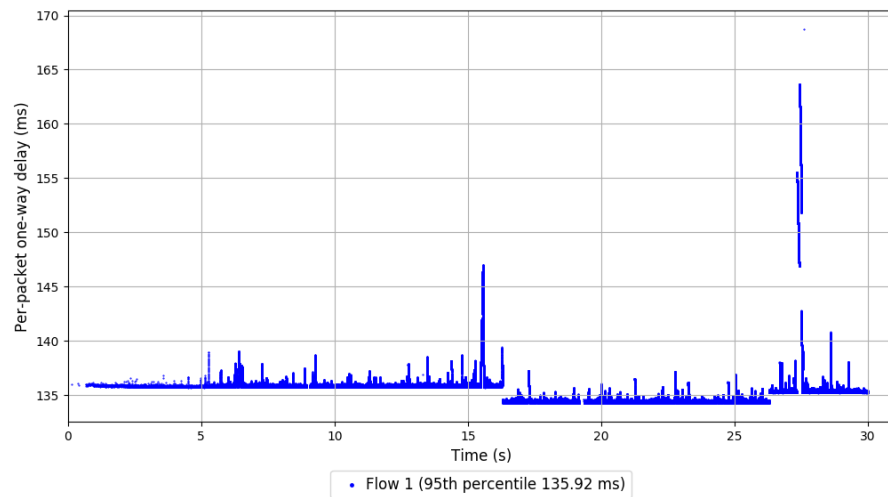
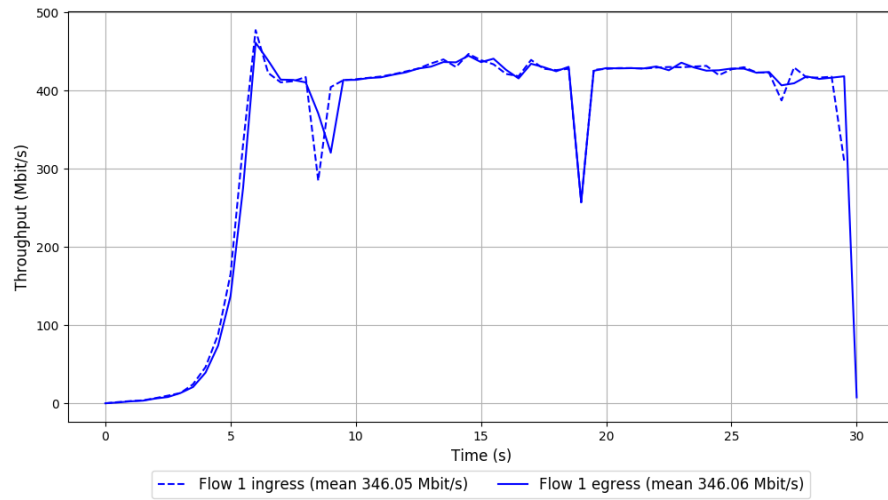
-- Flow 1:

Average throughput: 346.06 Mbit/s

95th percentile per-packet one-way delay: 135.916 ms

Loss rate: 0.00%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-03-21 02:37:46

End at: 2018-03-21 02:38:16

Below is generated by plot.py at 2018-03-21 05:12:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 268.76 Mbit/s

95th percentile per-packet one-way delay: 137.933 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 268.76 Mbit/s

95th percentile per-packet one-way delay: 137.933 ms

Loss rate: 0.00%

Run 10: Report of Vivace-LTE — Data Link

