

Pantheon Report

Generated at 2018-04-11 01:47:50 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

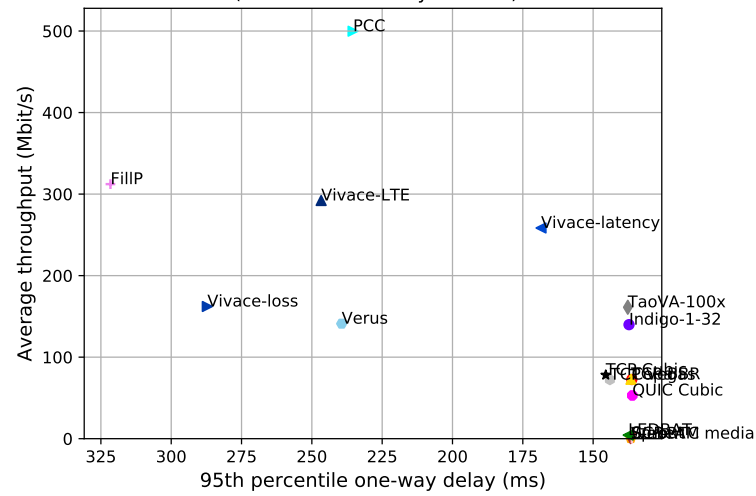
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

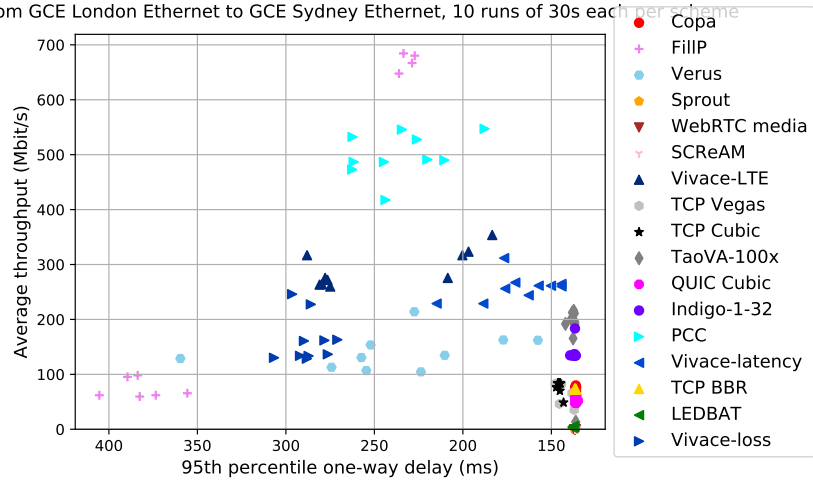
Git summary:

```
branch: master @ eb420b5be9bafccd22cf68b99ff5a2000462fc59
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
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 @ f1a14bffe749737437f61b1eaaeb30b267cde681
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 @ f271183af822eee5d0031620f4bebf38aedc5581
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	72.92	136.56	1.01
TCP Cubic	10	78.16	145.52	1.00
LEDBAT	10	4.39	137.56	1.93
PCC	10	499.79	235.34	3.08
QUIC Cubic	9	53.01	136.07	1.32
SCReAM	10	0.22	136.23	0.88
WebRTC media	10	0.06	136.69	0.00
Sprout	10	0.42	136.61	0.79
TaoVA-100x	10	161.17	137.68	0.96
TCP Vegas	10	72.40	144.05	0.96
Verus	10	141.06	239.40	2.51
Copa	10	72.59	136.25	0.90
FillP	10	312.23	321.60	12.85
Indigo-1-32	10	139.85	137.24	0.96
Vivace-latency	10	258.42	168.53	1.72
Vivace-loss	10	162.14	287.17	8.09
Vivace-LTE	10	292.17	246.69	2.17

Run 1: Statistics of TCP BBR

Start at: 2018-04-10 19:39:24

End at: 2018-04-10 19:39:54

Below is generated by plot.py at 2018-04-11 00:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.87 Mbit/s

95th percentile per-packet one-way delay: 136.798 ms

Loss rate: 1.01%

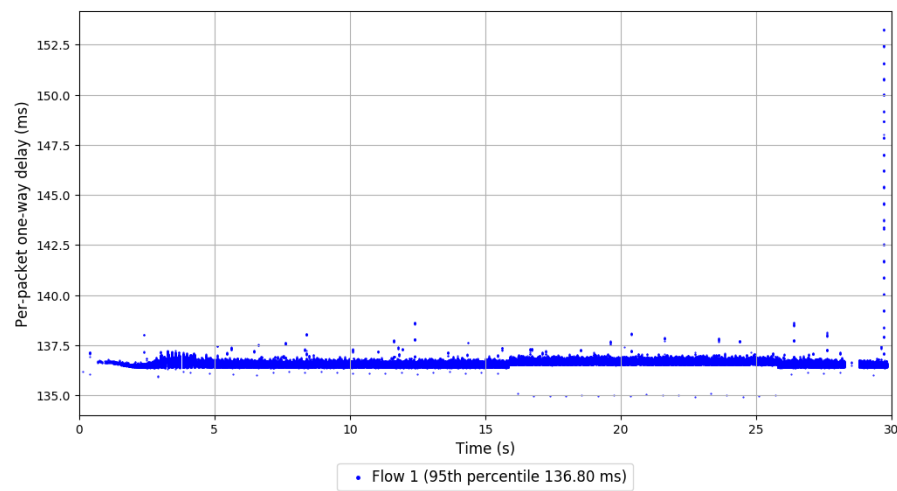
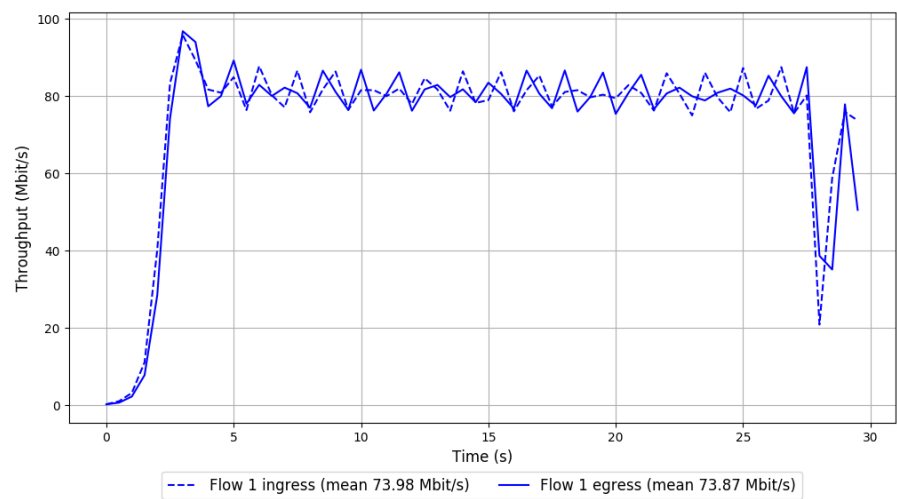
-- Flow 1:

Average throughput: 73.87 Mbit/s

95th percentile per-packet one-way delay: 136.798 ms

Loss rate: 1.01%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-10 19:54:43

End at: 2018-04-10 19:55:13

Below is generated by plot.py at 2018-04-11 00:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.22 Mbit/s

95th percentile per-packet one-way delay: 136.834 ms

Loss rate: 1.00%

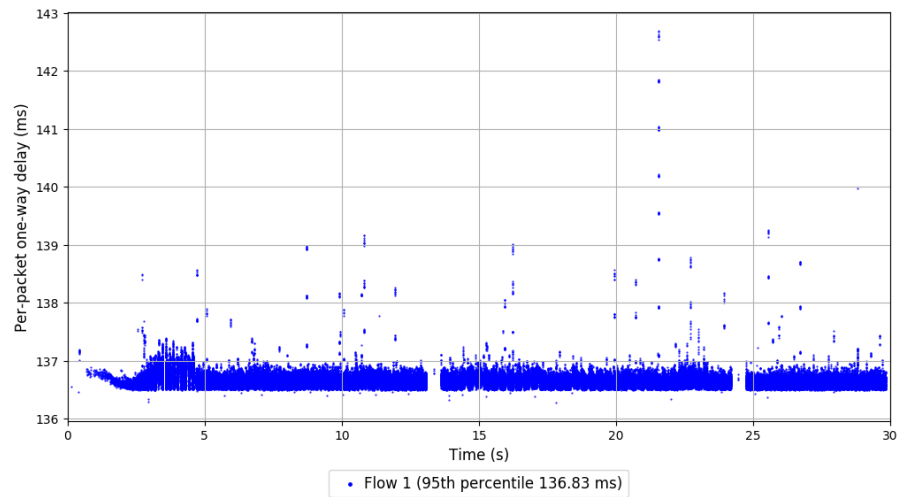
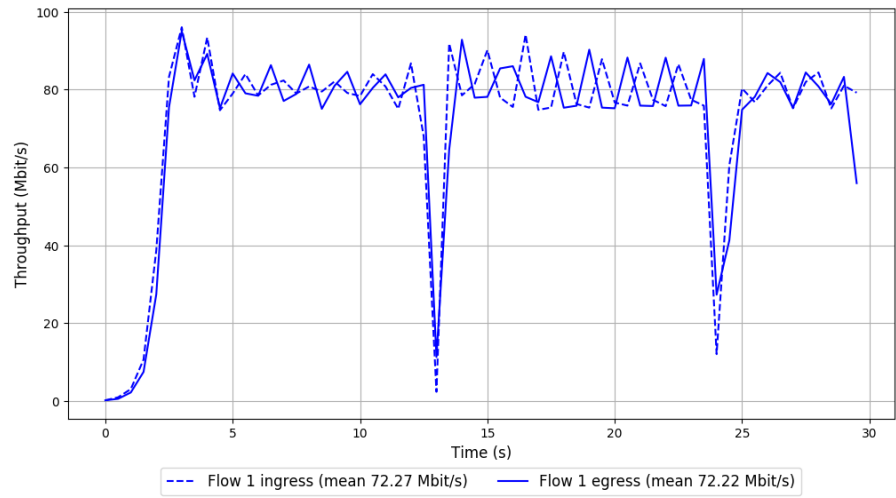
-- Flow 1:

Average throughput: 72.22 Mbit/s

95th percentile per-packet one-way delay: 136.834 ms

Loss rate: 1.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-10 20:10:08

End at: 2018-04-10 20:10:38

Below is generated by plot.py at 2018-04-11 00:52:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.12 Mbit/s

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

Loss rate: 0.96%

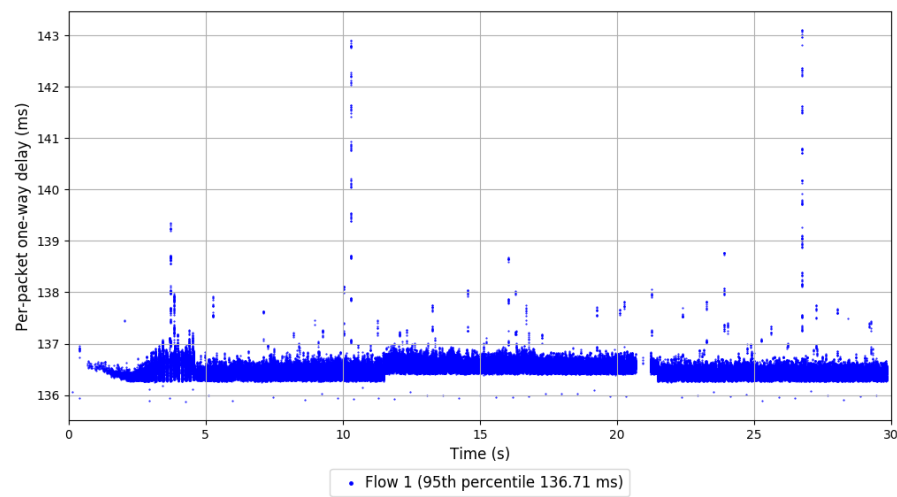
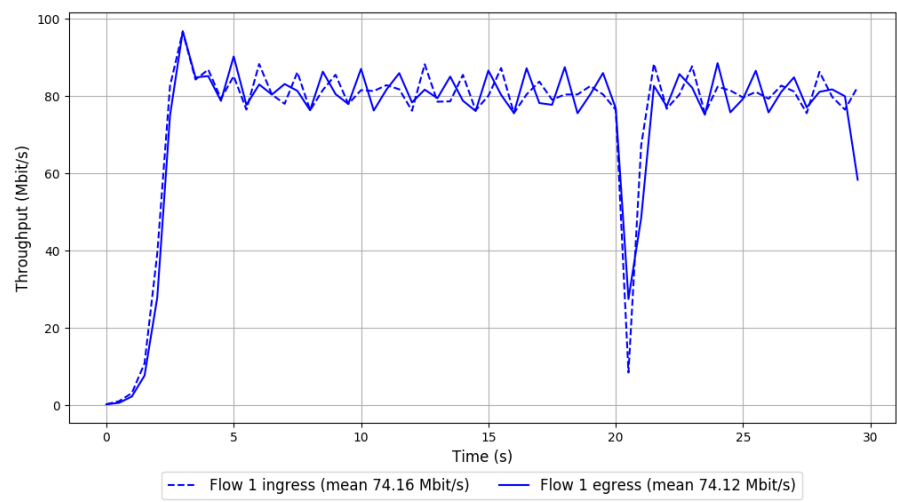
-- Flow 1:

Average throughput: 74.12 Mbit/s

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

Loss rate: 0.96%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-04-10 20:25:22

End at: 2018-04-10 20:25:52

Below is generated by plot.py at 2018-04-11 00:52:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.96 Mbit/s

95th percentile per-packet one-way delay: 136.672 ms

Loss rate: 0.98%

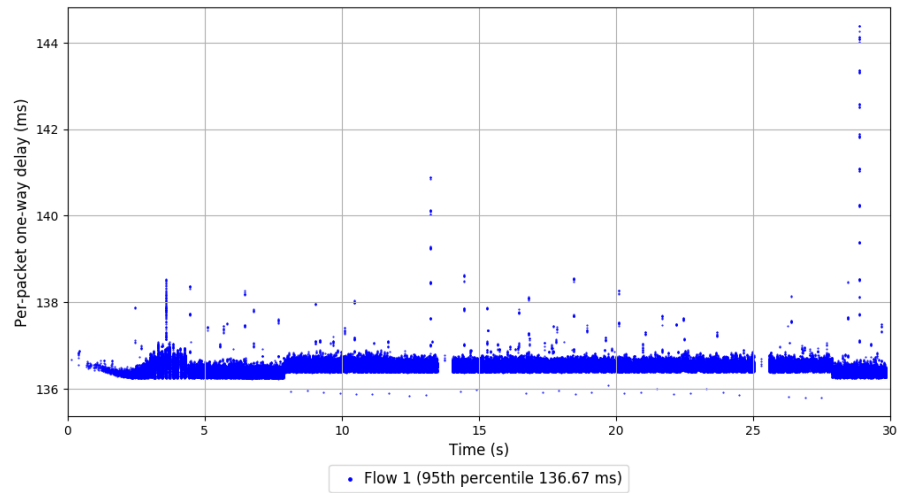
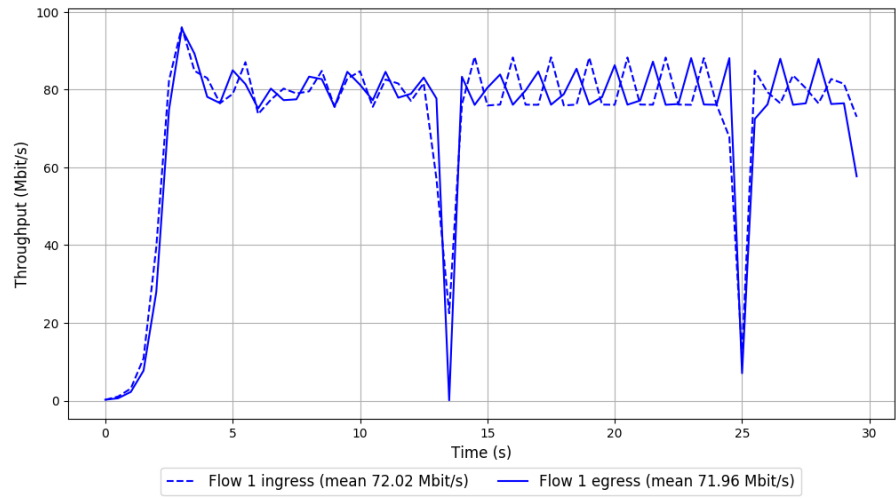
-- Flow 1:

Average throughput: 71.96 Mbit/s

95th percentile per-packet one-way delay: 136.672 ms

Loss rate: 0.98%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-10 20:40:44

End at: 2018-04-10 20:41:14

Below is generated by plot.py at 2018-04-11 00:52:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.74 Mbit/s

95th percentile per-packet one-way delay: 136.222 ms

Loss rate: 0.97%

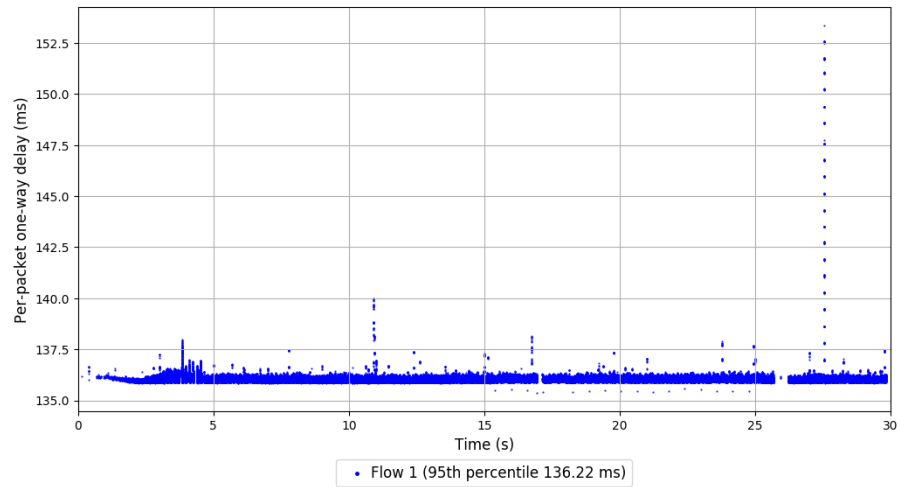
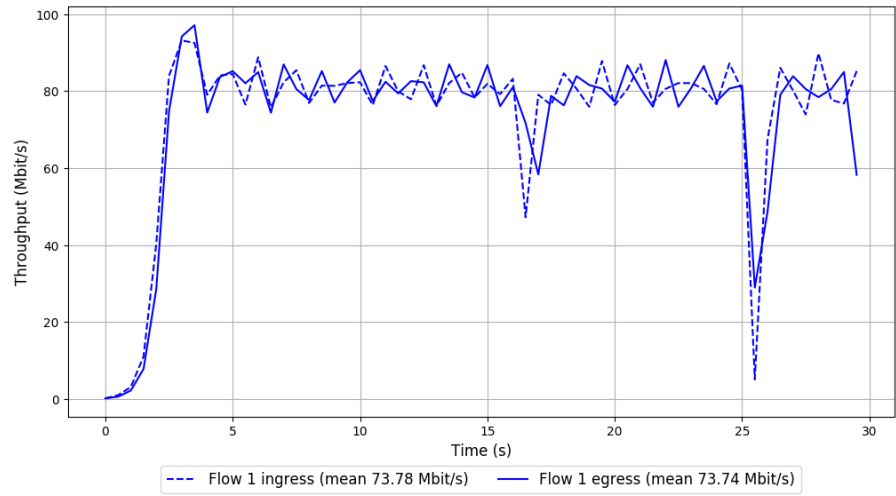
-- Flow 1:

Average throughput: 73.74 Mbit/s

95th percentile per-packet one-way delay: 136.222 ms

Loss rate: 0.97%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-10 20:56:24

End at: 2018-04-10 20:56:54

Below is generated by plot.py at 2018-04-11 00:52:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.14 Mbit/s

95th percentile per-packet one-way delay: 136.195 ms

Loss rate: 1.09%

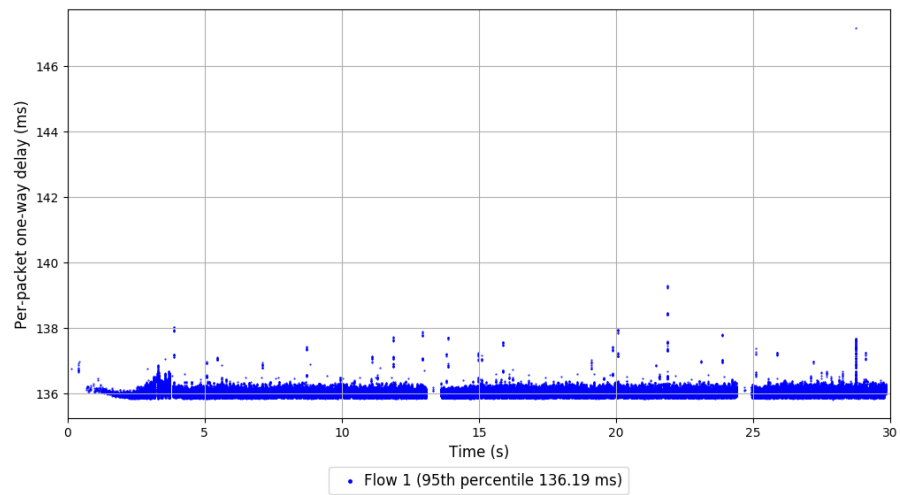
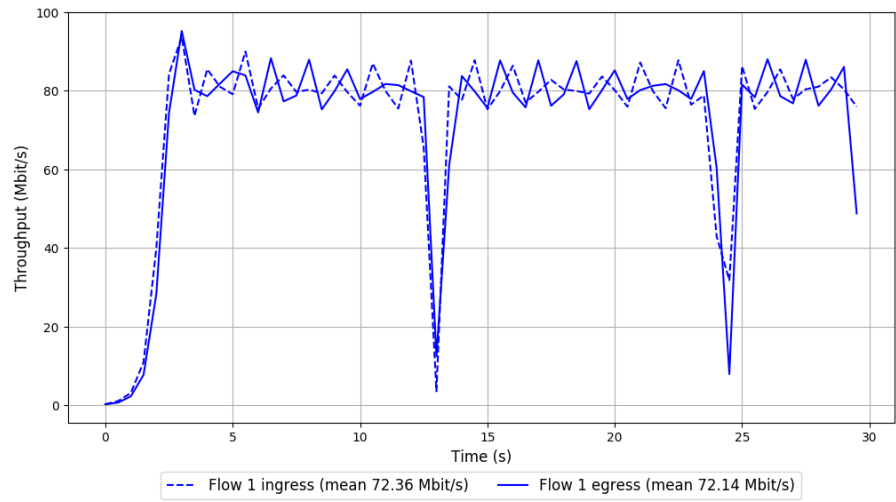
-- Flow 1:

Average throughput: 72.14 Mbit/s

95th percentile per-packet one-way delay: 136.195 ms

Loss rate: 1.09%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-04-10 21:11:48

End at: 2018-04-10 21:12:18

Below is generated by plot.py at 2018-04-11 00:52:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.22 Mbit/s

95th percentile per-packet one-way delay: 136.398 ms

Loss rate: 1.08%

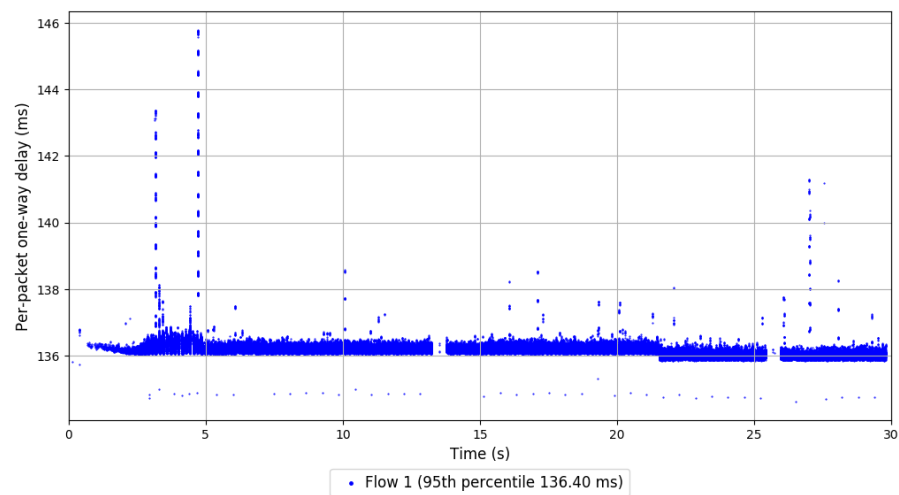
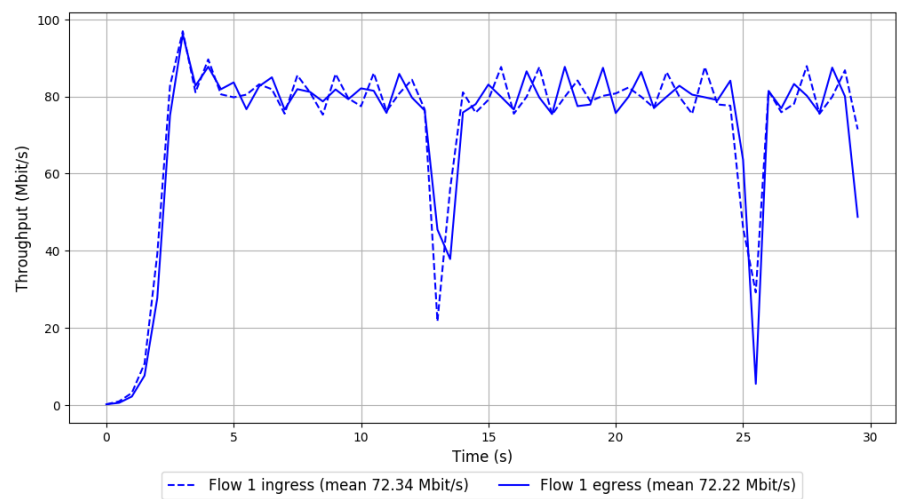
-- Flow 1:

Average throughput: 72.22 Mbit/s

95th percentile per-packet one-way delay: 136.398 ms

Loss rate: 1.08%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-10 21:27:35

End at: 2018-04-10 21:28:05

Below is generated by plot.py at 2018-04-11 00:52:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.04 Mbit/s

95th percentile per-packet one-way delay: 136.498 ms

Loss rate: 0.99%

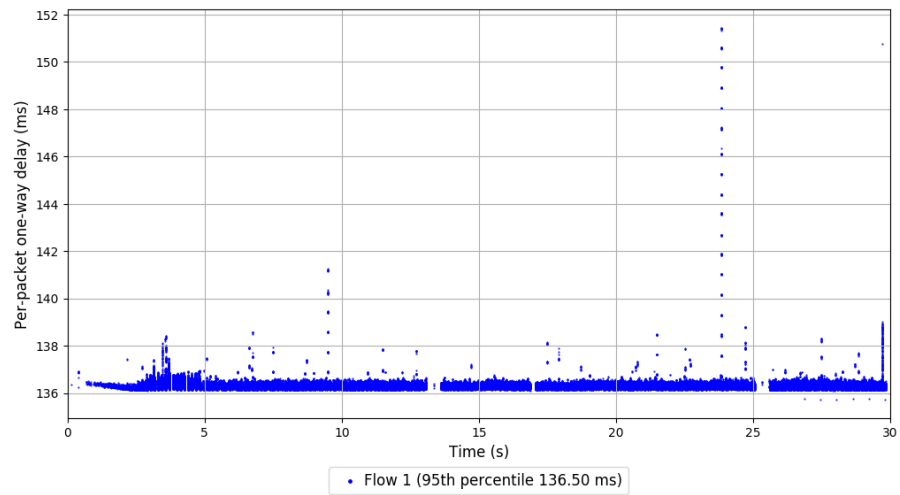
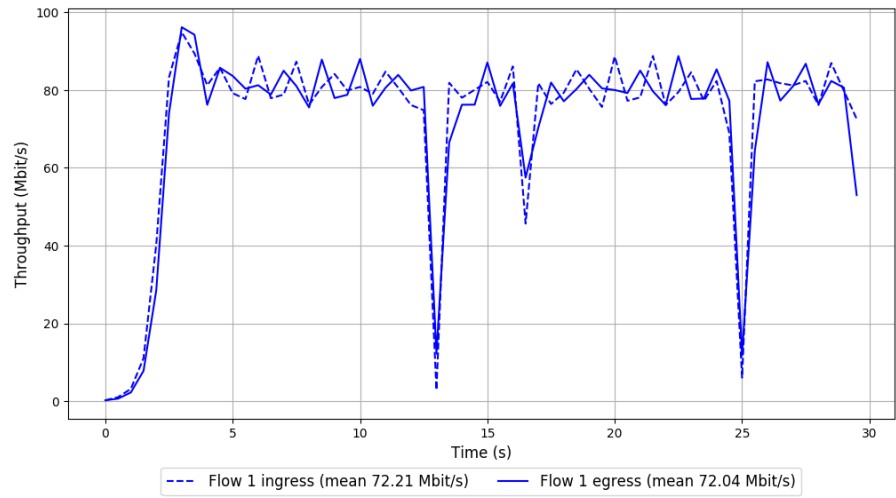
-- Flow 1:

Average throughput: 72.04 Mbit/s

95th percentile per-packet one-way delay: 136.498 ms

Loss rate: 0.99%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-10 21:43:15

End at: 2018-04-10 21:43:45

Below is generated by plot.py at 2018-04-11 00:53:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.16 Mbit/s

95th percentile per-packet one-way delay: 136.406 ms

Loss rate: 1.01%

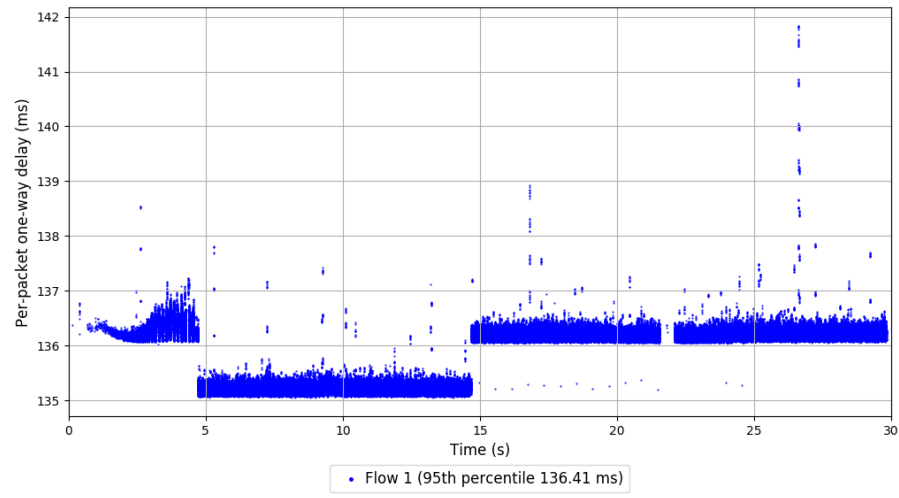
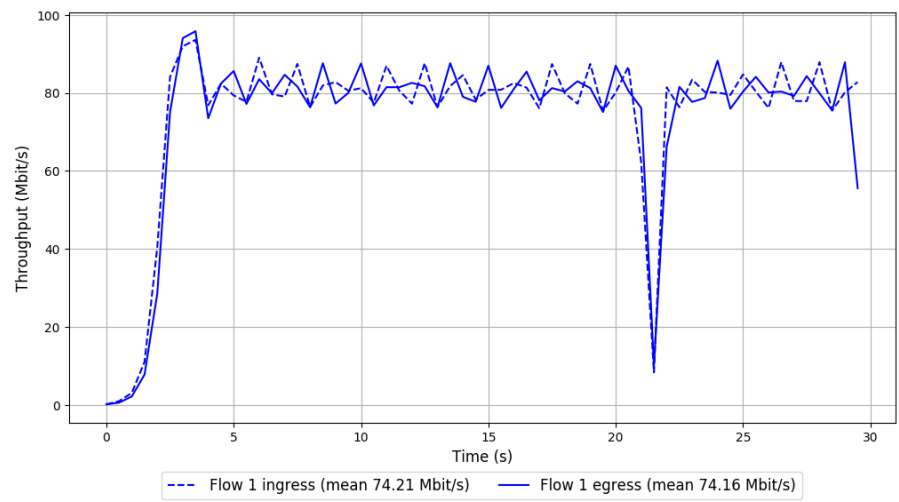
-- Flow 1:

Average throughput: 74.16 Mbit/s

95th percentile per-packet one-way delay: 136.406 ms

Loss rate: 1.01%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-04-10 21:58:45

End at: 2018-04-10 21:59:15

Below is generated by plot.py at 2018-04-11 00:53:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.69 Mbit/s

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

Loss rate: 0.97%

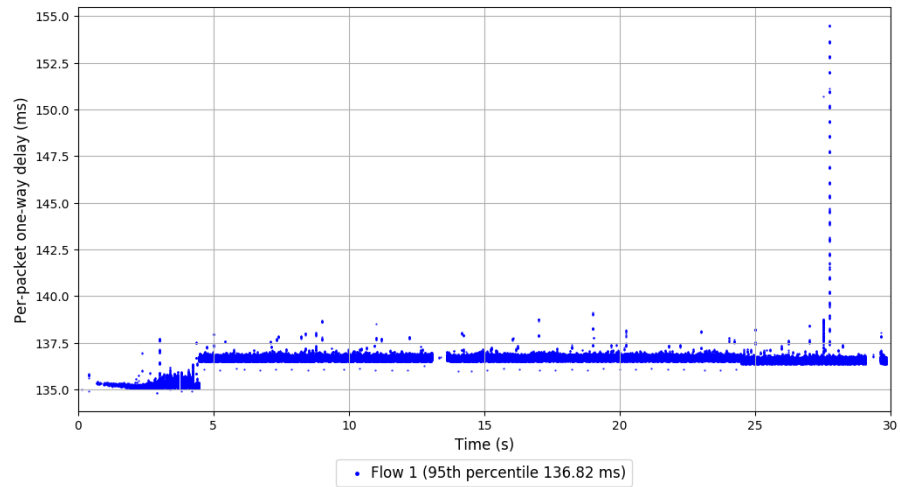
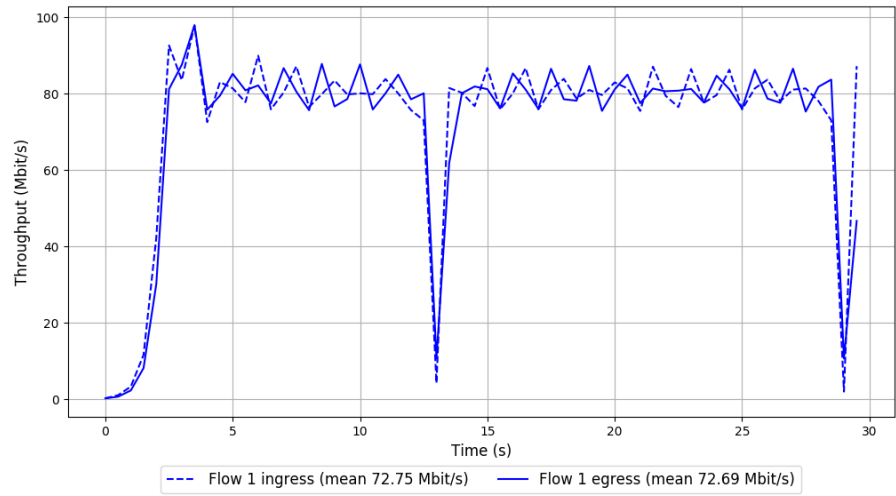
-- Flow 1:

Average throughput: 72.69 Mbit/s

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

Loss rate: 0.97%

Run 10: Report of TCP BBR — Data Link

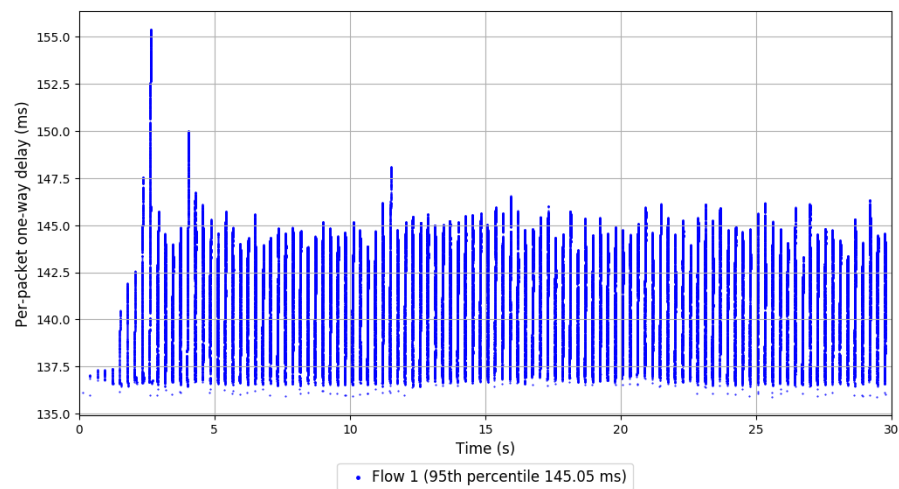
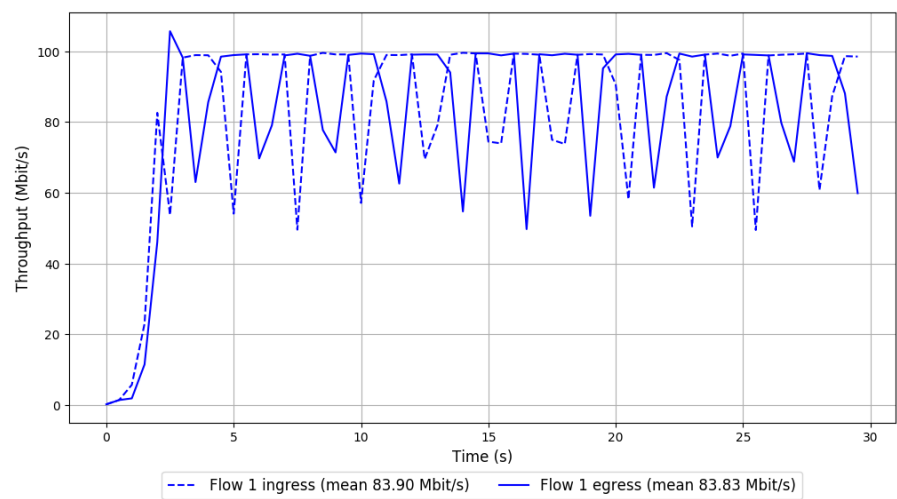


```
Run 1: Statistics of TCP Cubic

Start at: 2018-04-10 19:45:07
End at: 2018-04-10 19:45:37

# Below is generated by plot.py at 2018-04-11 00:54:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.83 Mbit/s
95th percentile per-packet one-way delay: 145.050 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 83.83 Mbit/s
95th percentile per-packet one-way delay: 145.050 ms
Loss rate: 0.98%
```

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-04-10 20:00:30

End at: 2018-04-10 20:01:00

Below is generated by plot.py at 2018-04-11 00:54:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.12 Mbit/s

95th percentile per-packet one-way delay: 145.190 ms

Loss rate: 0.76%

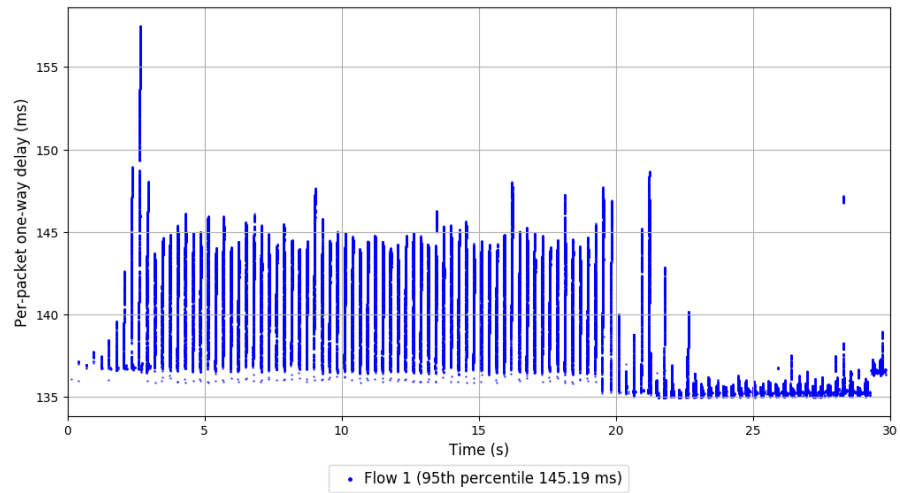
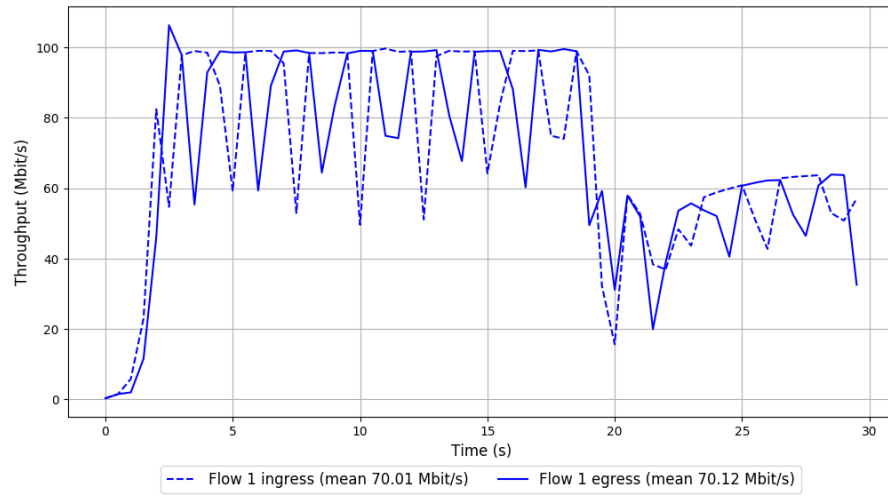
-- Flow 1:

Average throughput: 70.12 Mbit/s

95th percentile per-packet one-way delay: 145.190 ms

Loss rate: 0.76%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-04-10 20:15:50

End at: 2018-04-10 20:16:20

Below is generated by plot.py at 2018-04-11 00:54:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.68 Mbit/s

95th percentile per-packet one-way delay: 143.136 ms

Loss rate: 1.35%

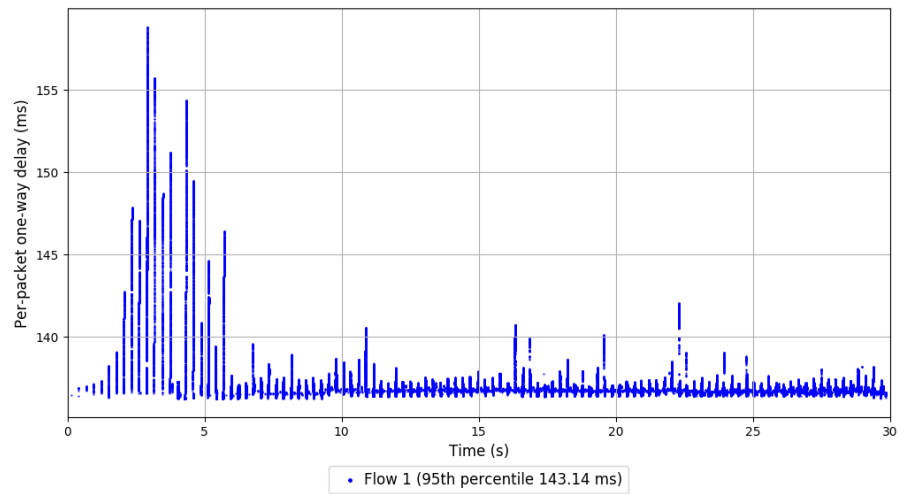
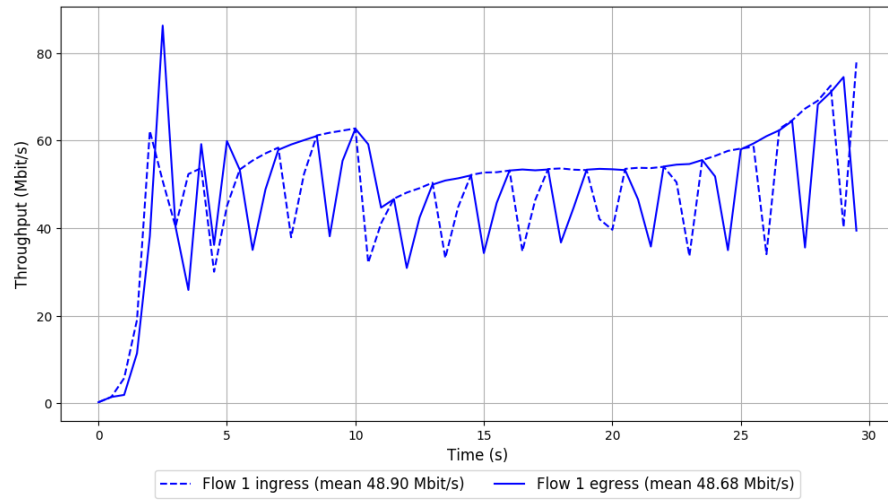
-- Flow 1:

Average throughput: 48.68 Mbit/s

95th percentile per-packet one-way delay: 143.136 ms

Loss rate: 1.35%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-04-10 20:31:06

End at: 2018-04-10 20:31:36

Below is generated by plot.py at 2018-04-11 00:54:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.85 Mbit/s

95th percentile per-packet one-way delay: 145.954 ms

Loss rate: 0.99%

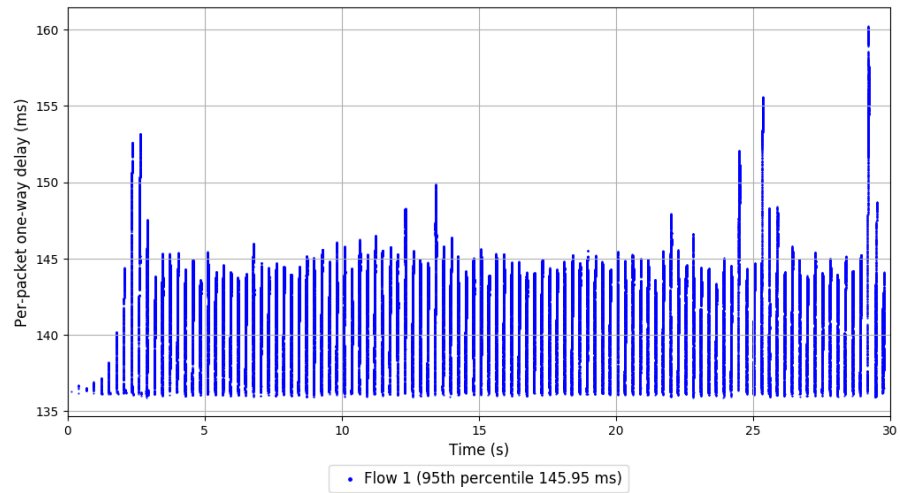
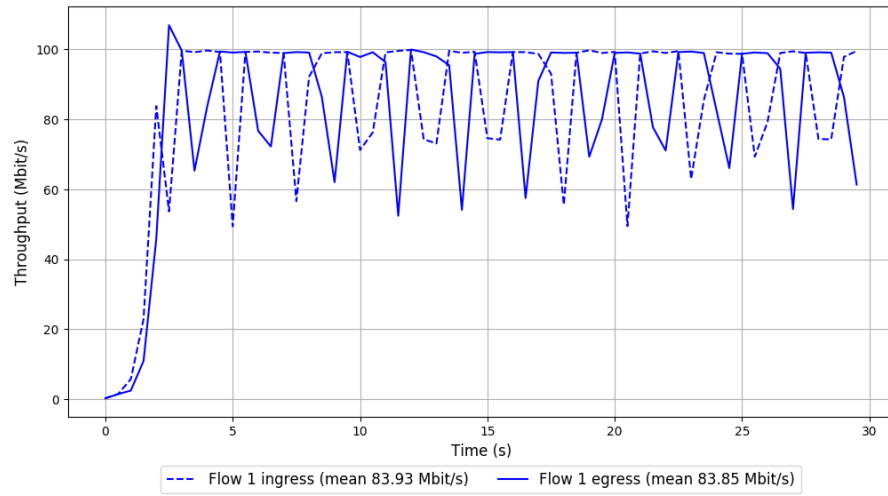
-- Flow 1:

Average throughput: 83.85 Mbit/s

95th percentile per-packet one-way delay: 145.954 ms

Loss rate: 0.99%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-10 20:46:51

End at: 2018-04-10 20:47:21

Below is generated by plot.py at 2018-04-11 00:54:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.72 Mbit/s

95th percentile per-packet one-way delay: 145.763 ms

Loss rate: 0.99%

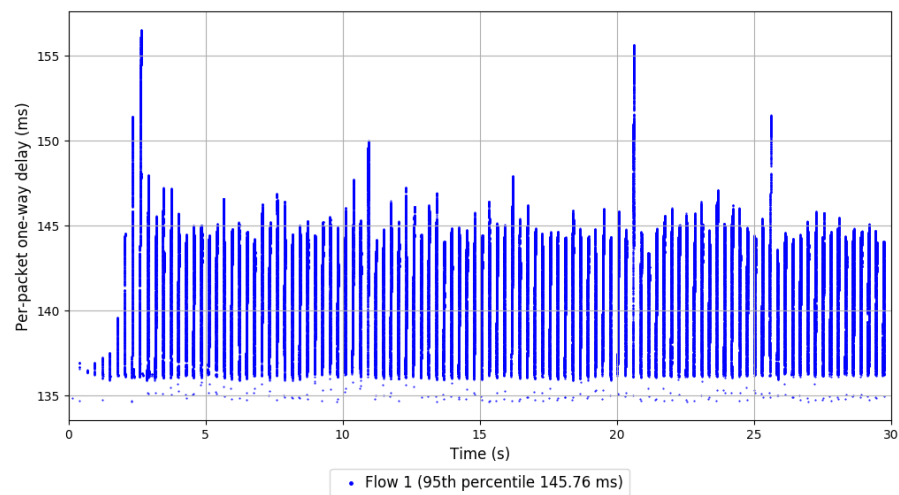
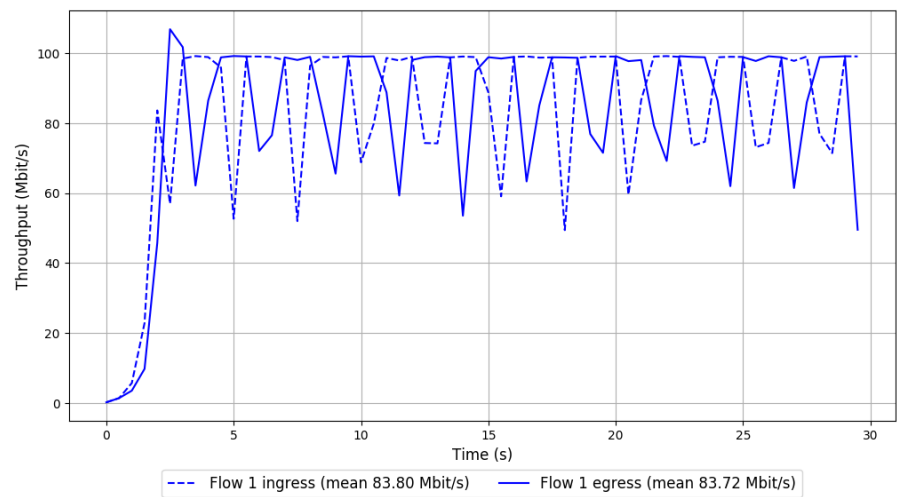
-- Flow 1:

Average throughput: 83.72 Mbit/s

95th percentile per-packet one-way delay: 145.763 ms

Loss rate: 0.99%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-04-10 21:02:10

End at: 2018-04-10 21:02:40

Below is generated by plot.py at 2018-04-11 00:54:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.92 Mbit/s

95th percentile per-packet one-way delay: 146.217 ms

Loss rate: 0.98%

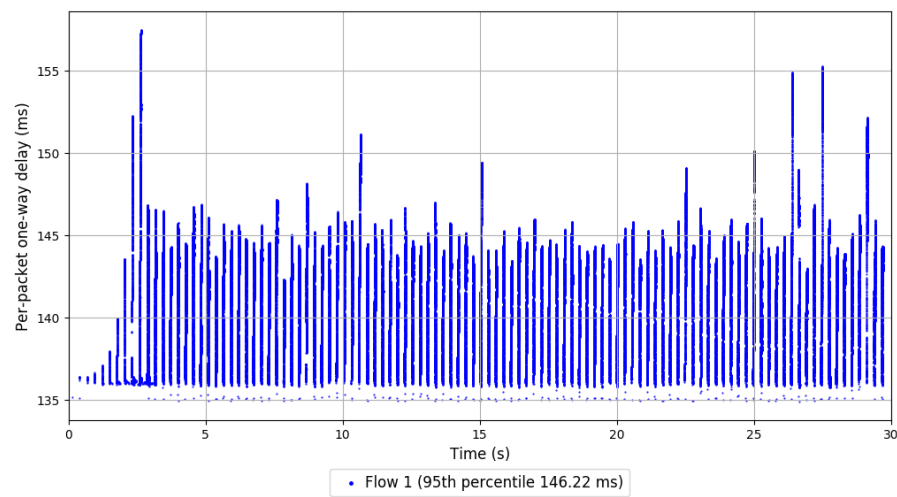
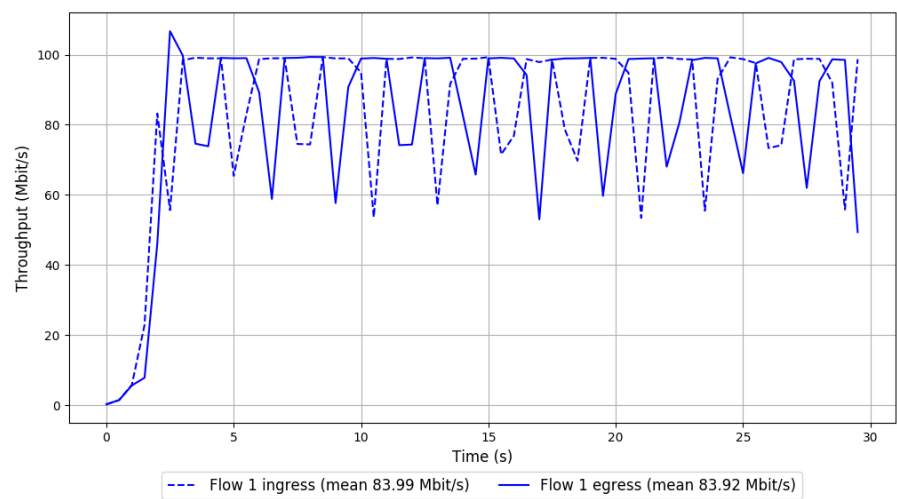
-- Flow 1:

Average throughput: 83.92 Mbit/s

95th percentile per-packet one-way delay: 146.217 ms

Loss rate: 0.98%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-10 21:17:56

End at: 2018-04-10 21:18:26

Below is generated by plot.py at 2018-04-11 00:55:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.76 Mbit/s

95th percentile per-packet one-way delay: 146.311 ms

Loss rate: 0.99%

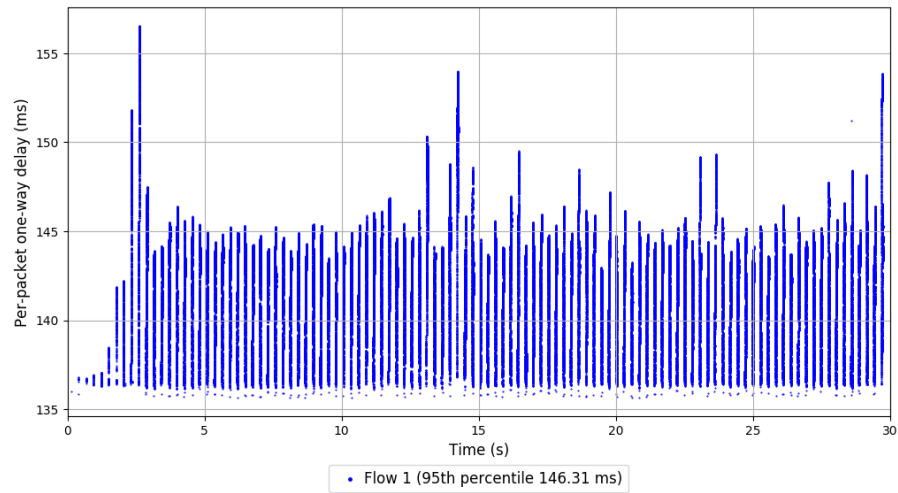
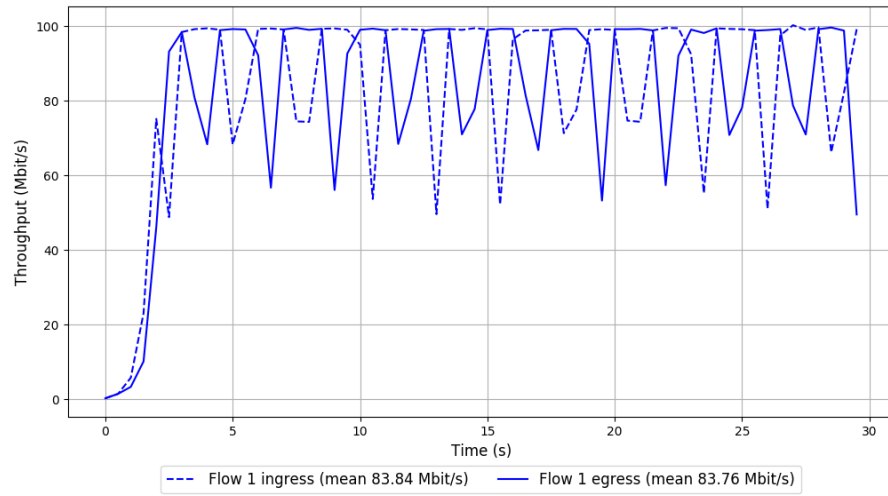
-- Flow 1:

Average throughput: 83.76 Mbit/s

95th percentile per-packet one-way delay: 146.311 ms

Loss rate: 0.99%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-04-10 21:33:24

End at: 2018-04-10 21:33:54

Below is generated by plot.py at 2018-04-11 00:55:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.33 Mbit/s

95th percentile per-packet one-way delay: 144.868 ms

Loss rate: 1.00%

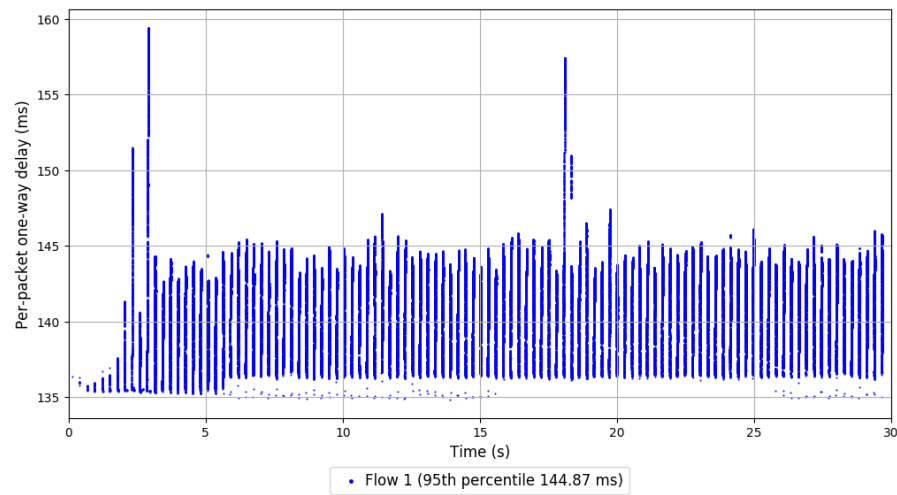
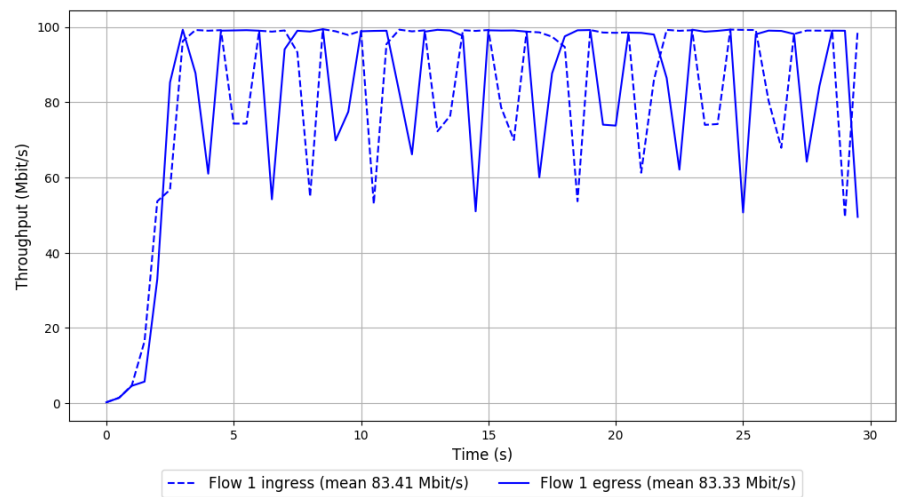
-- Flow 1:

Average throughput: 83.33 Mbit/s

95th percentile per-packet one-way delay: 144.868 ms

Loss rate: 1.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-10 21:49:05

End at: 2018-04-10 21:49:35

Below is generated by plot.py at 2018-04-11 00:55:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.85 Mbit/s

95th percentile per-packet one-way delay: 145.452 ms

Loss rate: 0.98%

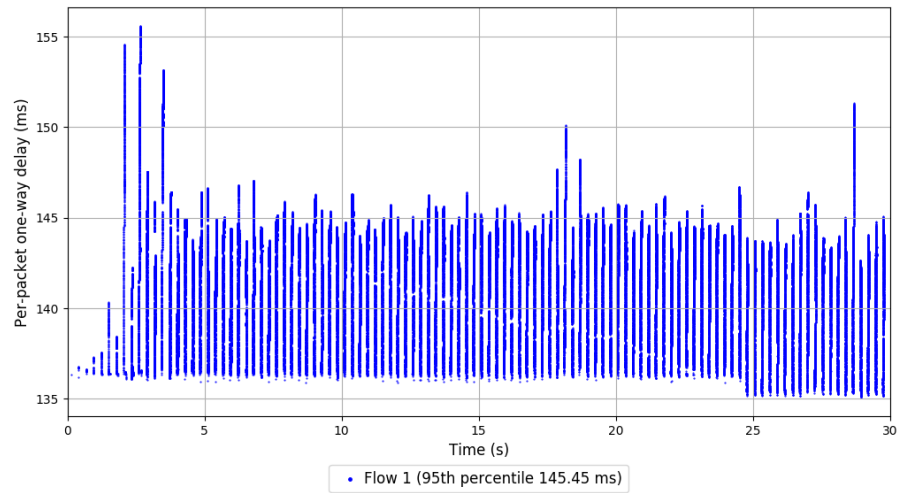
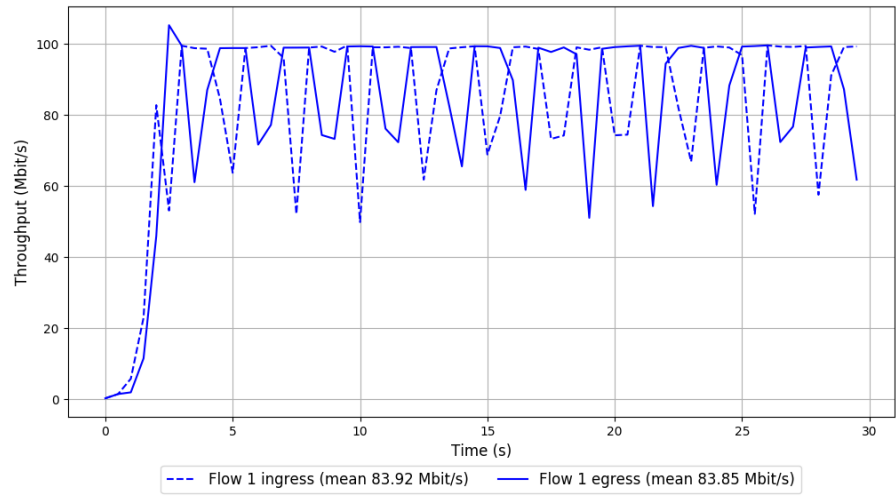
-- Flow 1:

Average throughput: 83.85 Mbit/s

95th percentile per-packet one-way delay: 145.452 ms

Loss rate: 0.98%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-10 22:04:32

End at: 2018-04-10 22:05:02

Below is generated by plot.py at 2018-04-11 00:55:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.50 Mbit/s

95th percentile per-packet one-way delay: 147.217 ms

Loss rate: 1.02%

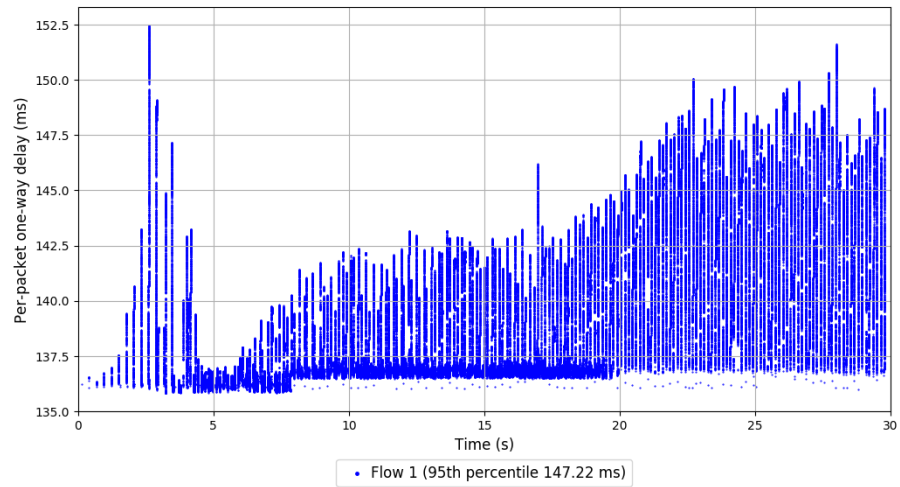
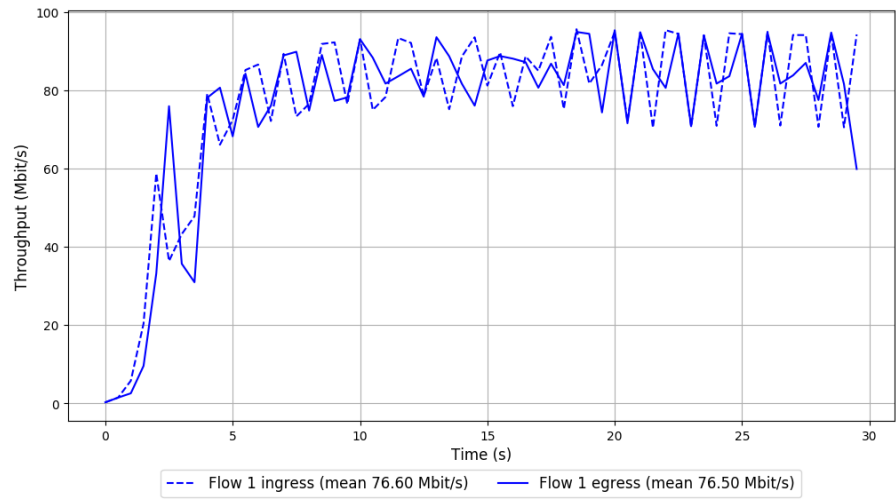
-- Flow 1:

Average throughput: 76.50 Mbit/s

95th percentile per-packet one-way delay: 147.217 ms

Loss rate: 1.02%

Run 10: Report of TCP Cubic — Data Link

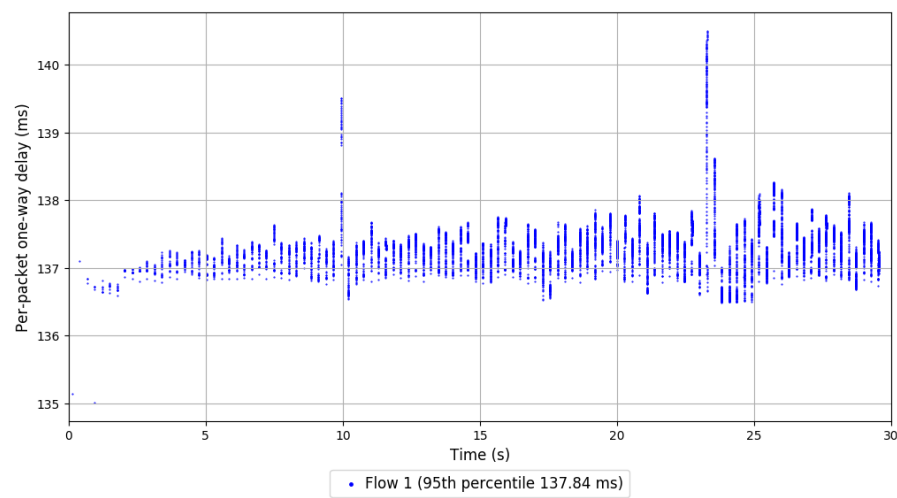
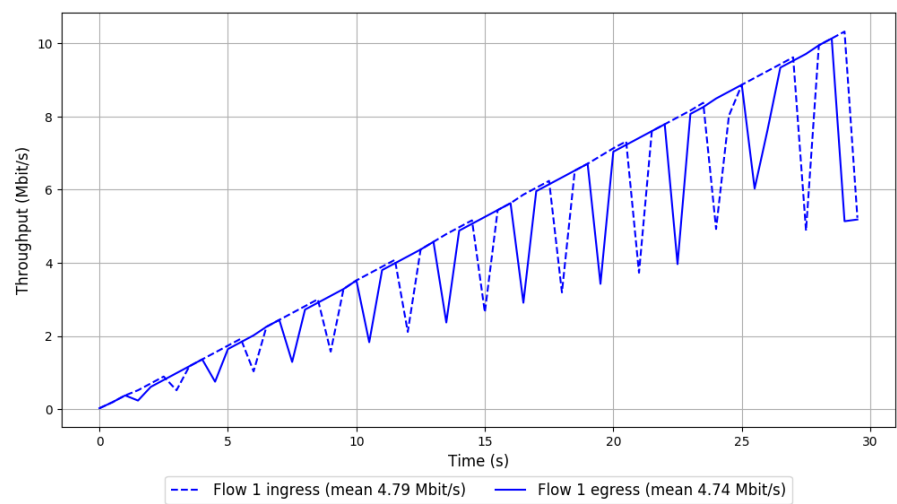


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-10 19:38:40
End at: 2018-04-10 19:39:10

# Below is generated by plot.py at 2018-04-11 00:55:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.74 Mbit/s
95th percentile per-packet one-way delay: 137.837 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 4.74 Mbit/s
95th percentile per-packet one-way delay: 137.837 ms
Loss rate: 1.84%
```


Run 1: Report of LEDBAT — Data Link

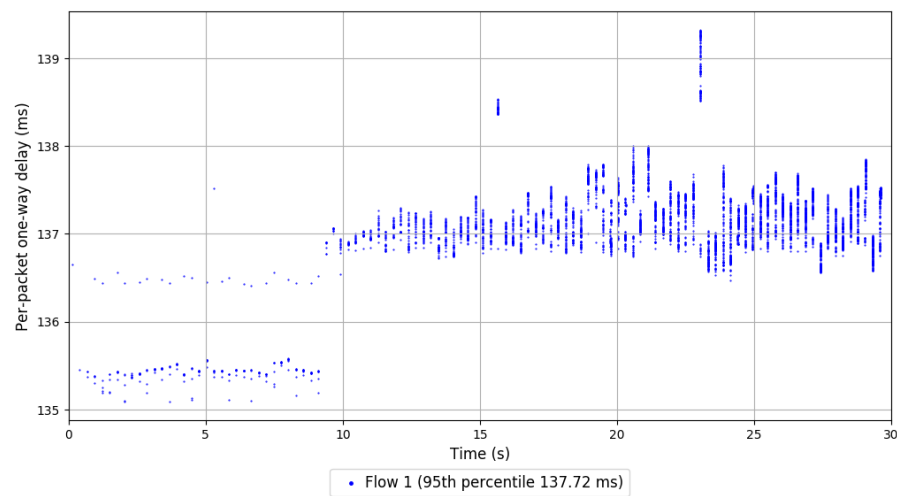
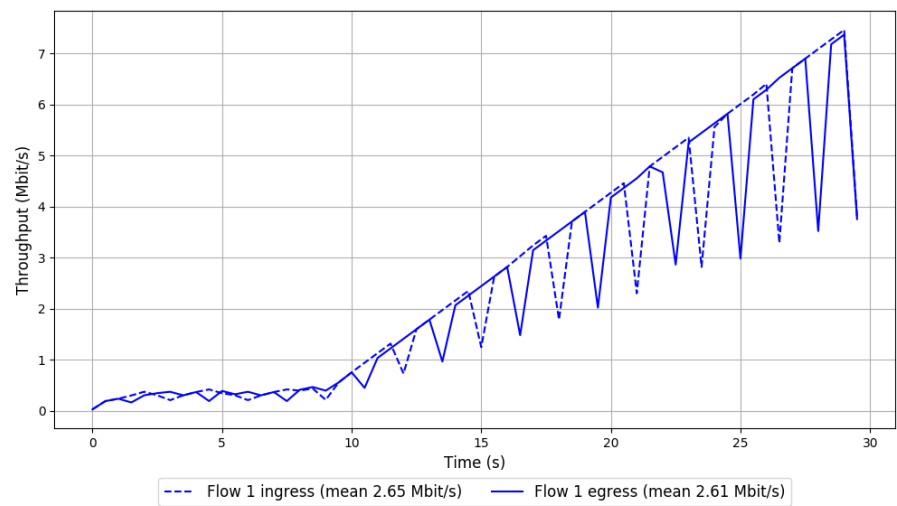


```
Run 2: Statistics of LEDBAT

Start at: 2018-04-10 19:54:00
End at: 2018-04-10 19:54:30

# Below is generated by plot.py at 2018-04-11 00:55:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.61 Mbit/s
95th percentile per-packet one-way delay: 137.722 ms
Loss rate: 2.42%
-- Flow 1:
Average throughput: 2.61 Mbit/s
95th percentile per-packet one-way delay: 137.722 ms
Loss rate: 2.42%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-10 20:09:25

End at: 2018-04-10 20:09:55

Below is generated by plot.py at 2018-04-11 00:55:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.74 Mbit/s

95th percentile per-packet one-way delay: 137.665 ms

Loss rate: 1.84%

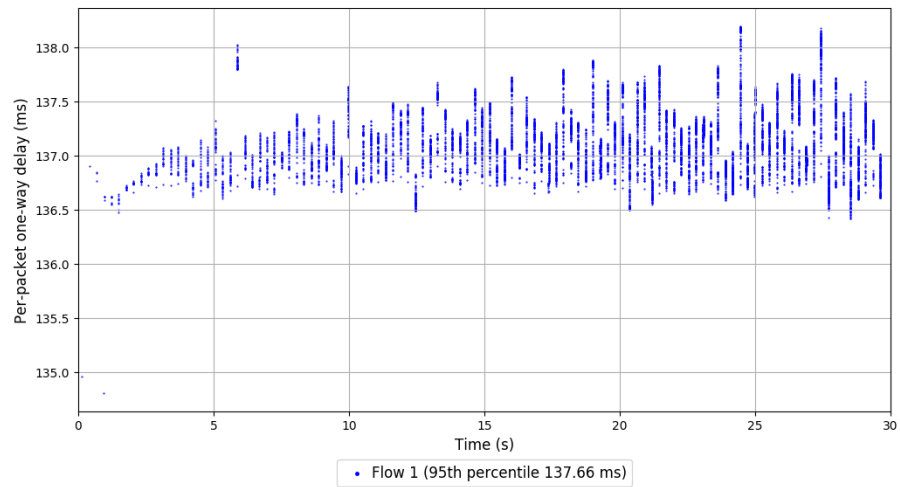
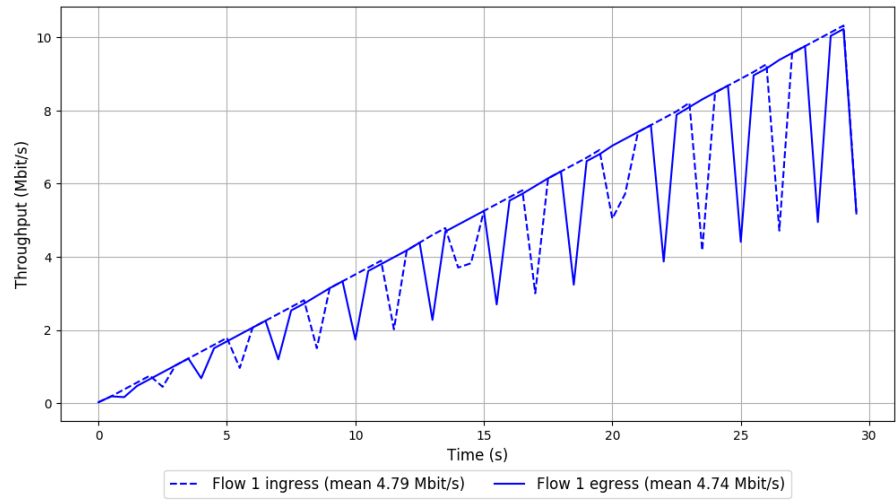
-- Flow 1:

Average throughput: 4.74 Mbit/s

95th percentile per-packet one-way delay: 137.665 ms

Loss rate: 1.84%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-04-10 20:24:38

End at: 2018-04-10 20:25:08

Below is generated by plot.py at 2018-04-11 00:55:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.79 Mbit/s

95th percentile per-packet one-way delay: 137.944 ms

Loss rate: 1.80%

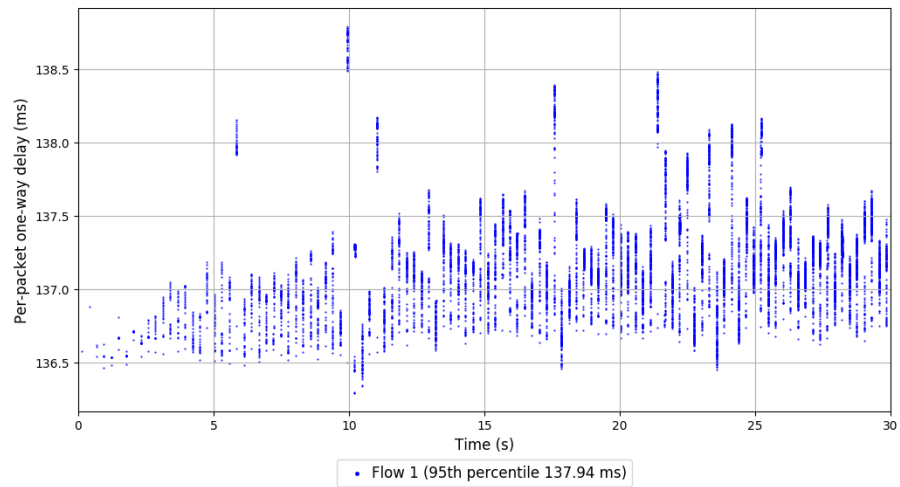
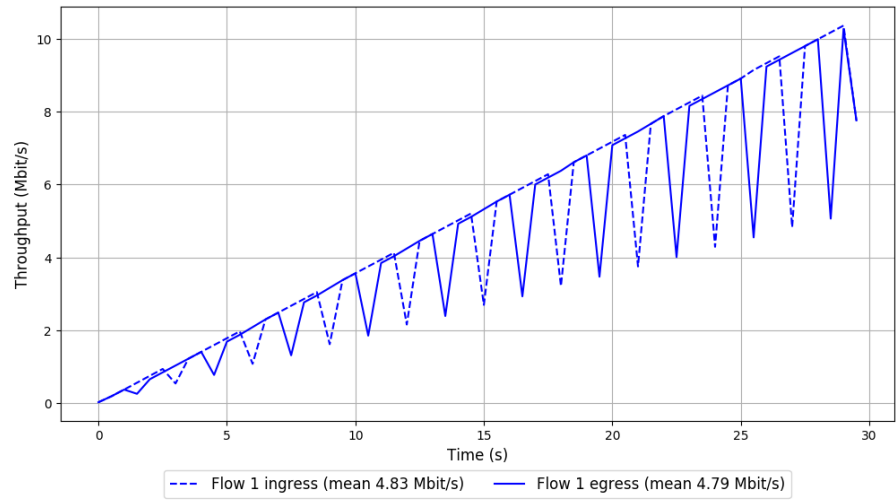
-- Flow 1:

Average throughput: 4.79 Mbit/s

95th percentile per-packet one-way delay: 137.944 ms

Loss rate: 1.80%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-10 20:40:01

End at: 2018-04-10 20:40:31

Below is generated by plot.py at 2018-04-11 00:55:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.74 Mbit/s

95th percentile per-packet one-way delay: 137.155 ms

Loss rate: 1.83%

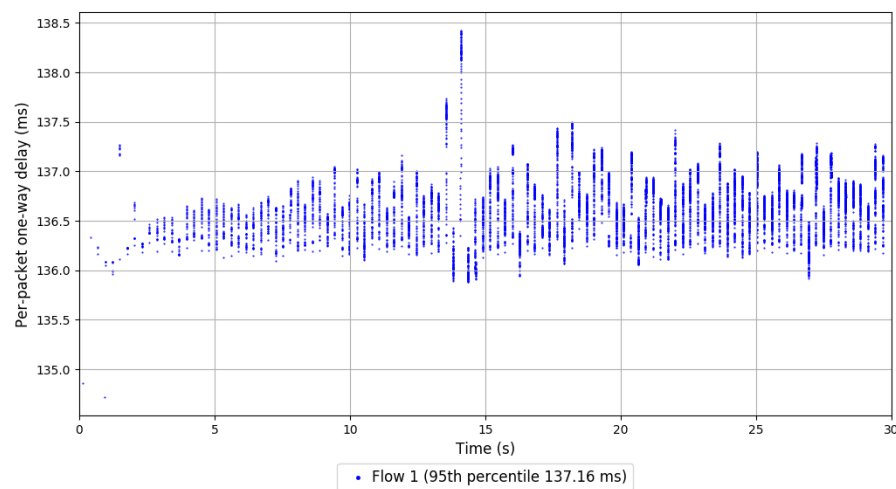
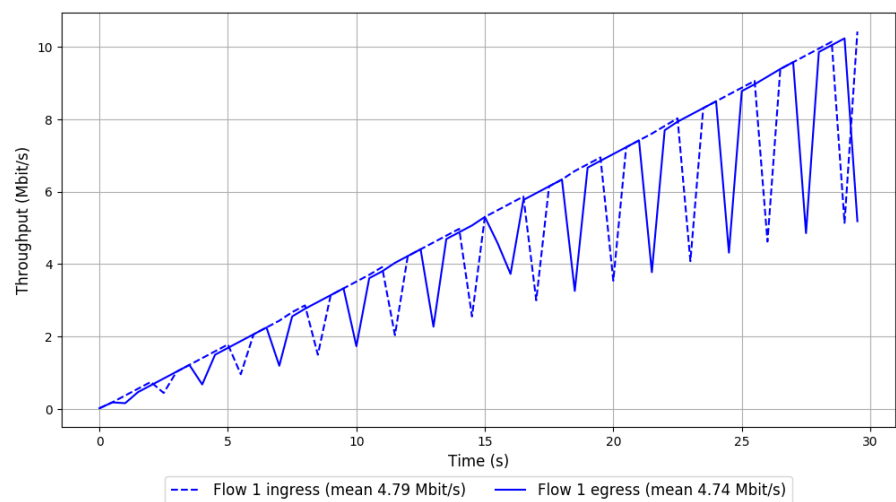
-- Flow 1:

Average throughput: 4.74 Mbit/s

95th percentile per-packet one-way delay: 137.155 ms

Loss rate: 1.83%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-04-10 20:55:41

End at: 2018-04-10 20:56:11

Below is generated by plot.py at 2018-04-11 00:55:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 137.218 ms

Loss rate: 1.84%

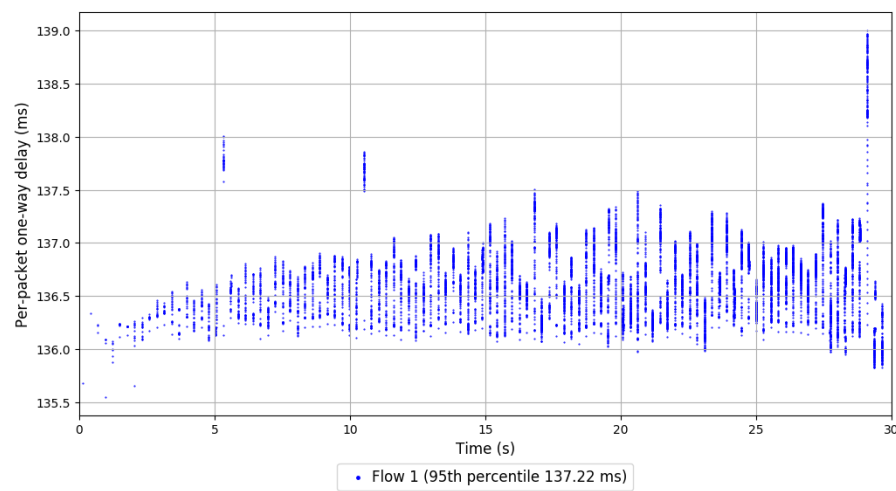
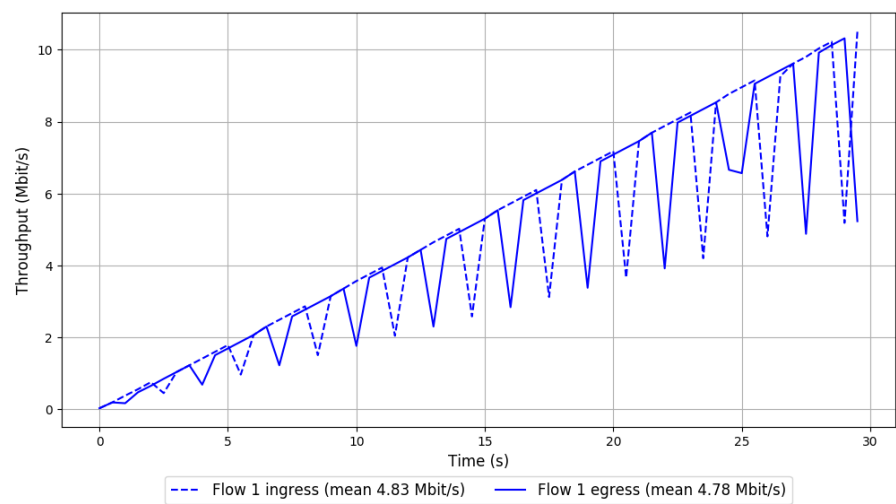
-- Flow 1:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 137.218 ms

Loss rate: 1.84%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-04-10 21:11:05

End at: 2018-04-10 21:11:35

Below is generated by plot.py at 2018-04-11 00:55:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 137.201 ms

Loss rate: 1.84%

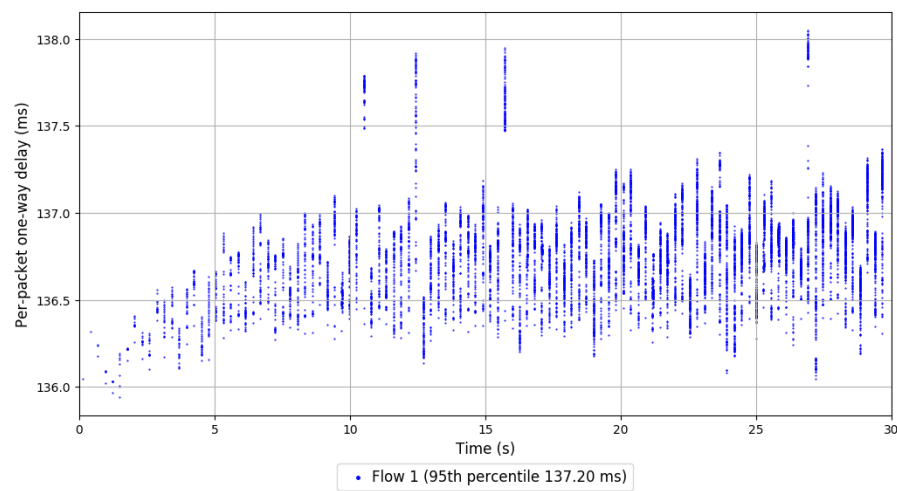
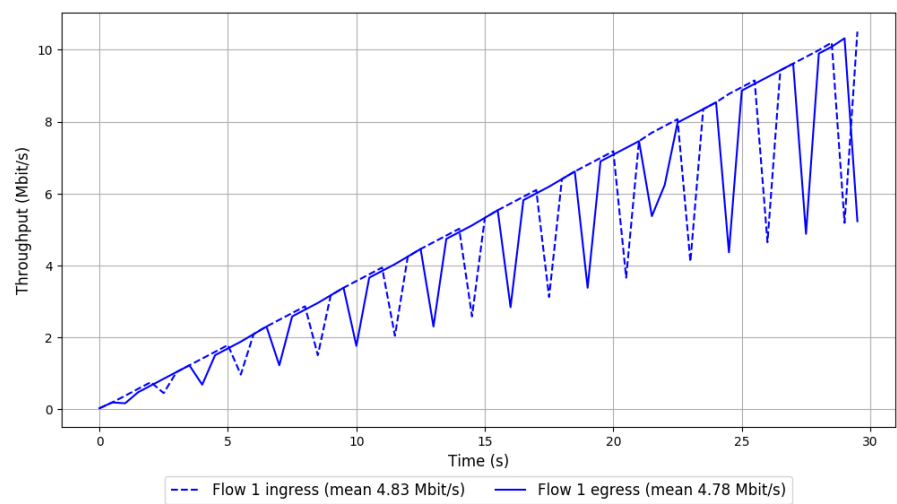
-- Flow 1:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 137.201 ms

Loss rate: 1.84%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-10 21:26:51

End at: 2018-04-10 21:27:21

Below is generated by plot.py at 2018-04-11 00:55:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.85 Mbit/s

95th percentile per-packet one-way delay: 137.409 ms

Loss rate: 1.82%

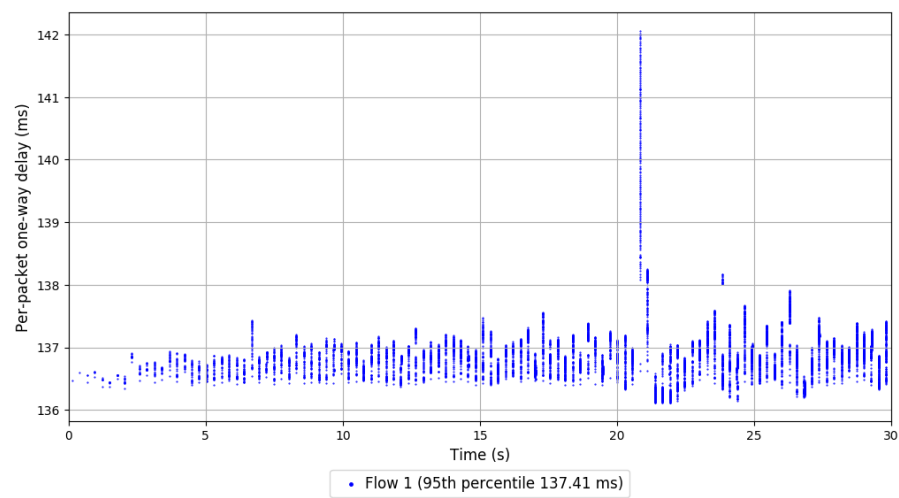
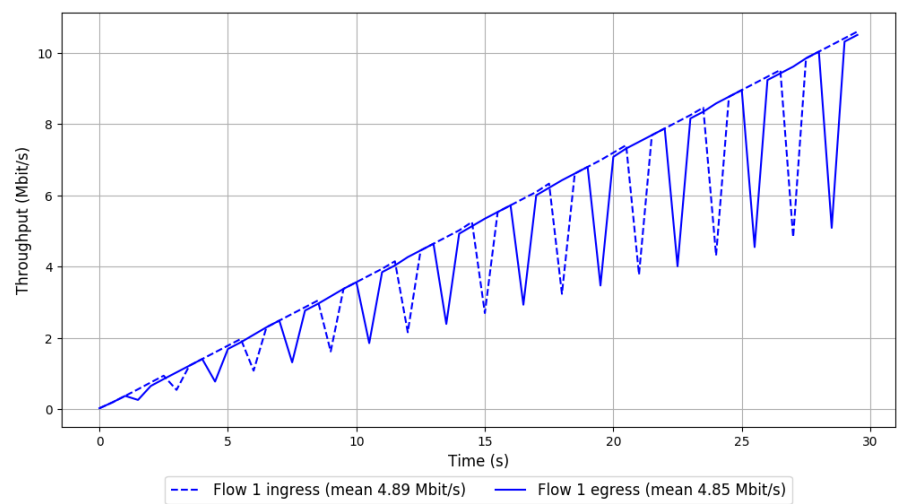
-- Flow 1:

Average throughput: 4.85 Mbit/s

95th percentile per-packet one-way delay: 137.409 ms

Loss rate: 1.82%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-04-10 21:42:31

End at: 2018-04-10 21:43:01

Below is generated by plot.py at 2018-04-11 00:55:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.84 Mbit/s

95th percentile per-packet one-way delay: 137.430 ms

Loss rate: 1.82%

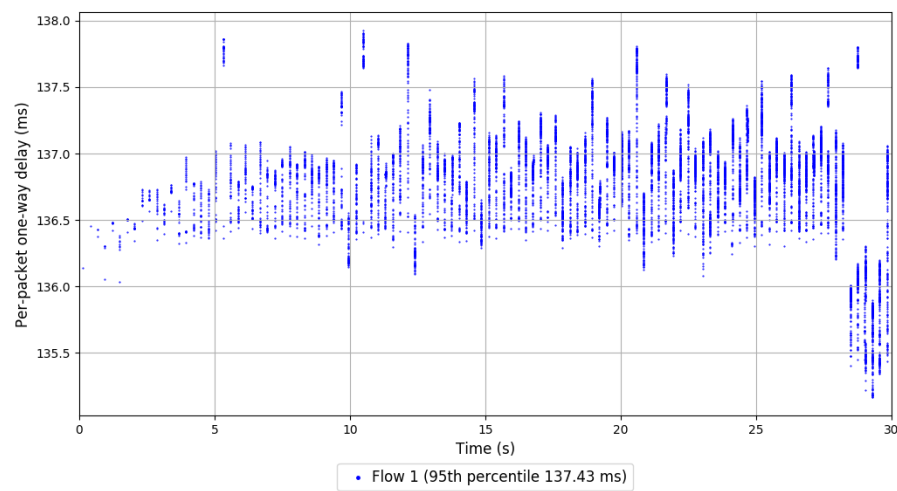
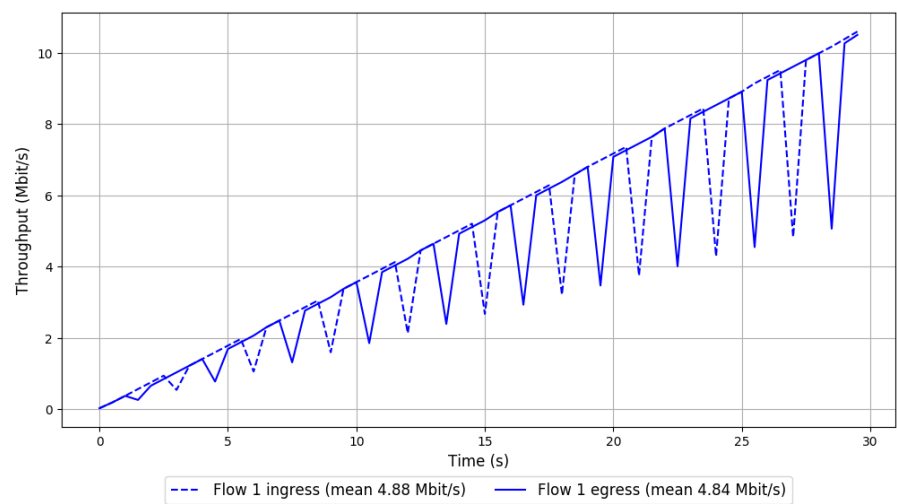
-- Flow 1:

Average throughput: 4.84 Mbit/s

95th percentile per-packet one-way delay: 137.430 ms

Loss rate: 1.82%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-10 21:58:02

End at: 2018-04-10 21:58:32

Below is generated by plot.py at 2018-04-11 00:55:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.04 Mbit/s

95th percentile per-packet one-way delay: 137.996 ms

Loss rate: 2.25%

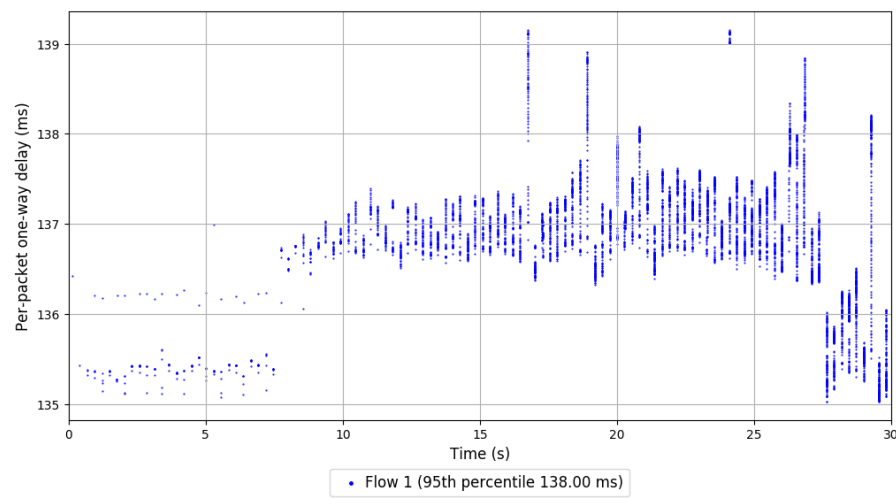
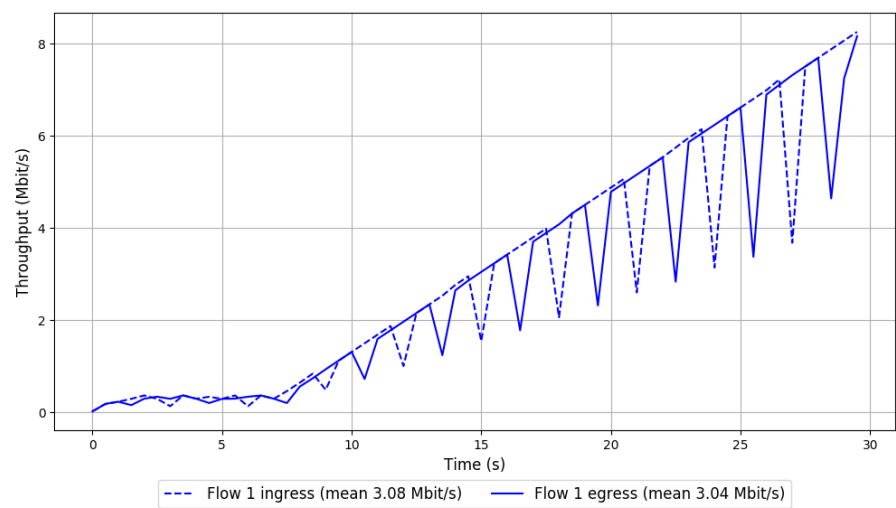
-- Flow 1:

Average throughput: 3.04 Mbit/s

95th percentile per-packet one-way delay: 137.996 ms

Loss rate: 2.25%

Run 10: Report of LEDBAT — Data Link

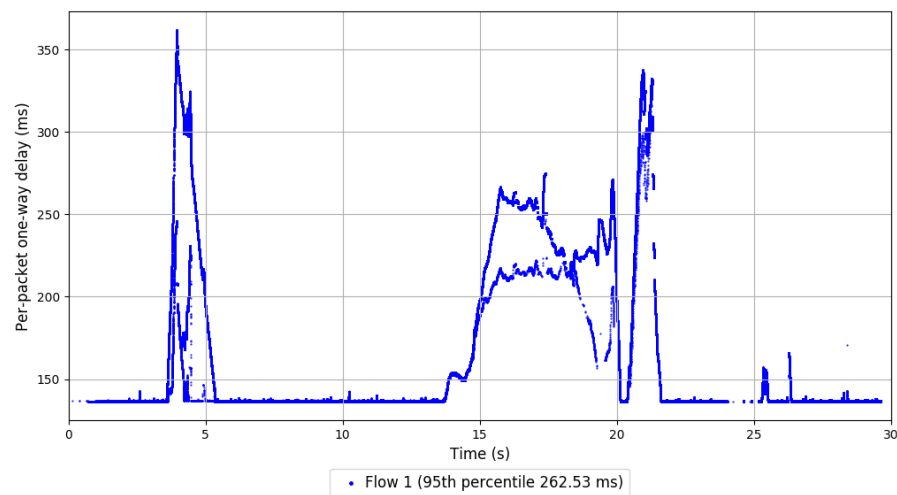
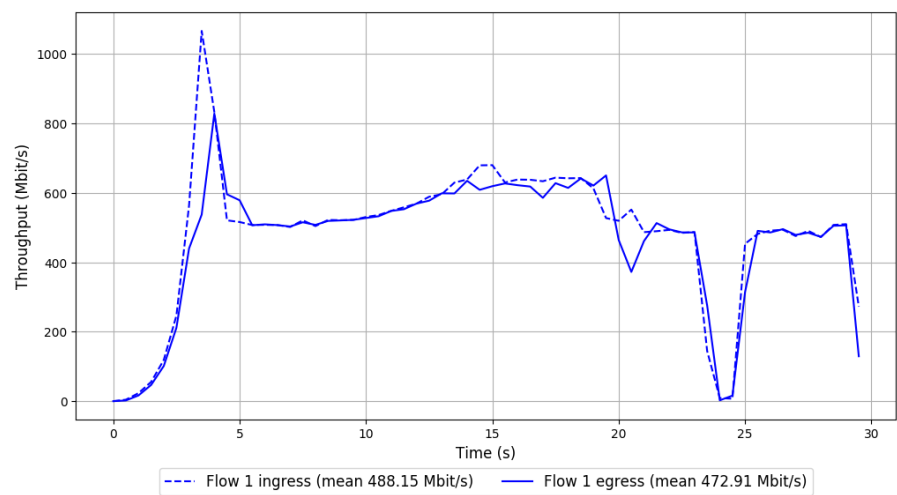


```
Run 1: Statistics of PCC

Start at: 2018-04-10 19:30:42
End at: 2018-04-10 19:31:12

# Below is generated by plot.py at 2018-04-11 01:02:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 472.91 Mbit/s
95th percentile per-packet one-way delay: 262.526 ms
Loss rate: 4.01%
-- Flow 1:
Average throughput: 472.91 Mbit/s
95th percentile per-packet one-way delay: 262.526 ms
Loss rate: 4.01%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-04-10 19:45:55

End at: 2018-04-10 19:46:25

Below is generated by plot.py at 2018-04-11 01:03:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 489.92 Mbit/s

95th percentile per-packet one-way delay: 210.439 ms

Loss rate: 2.31%

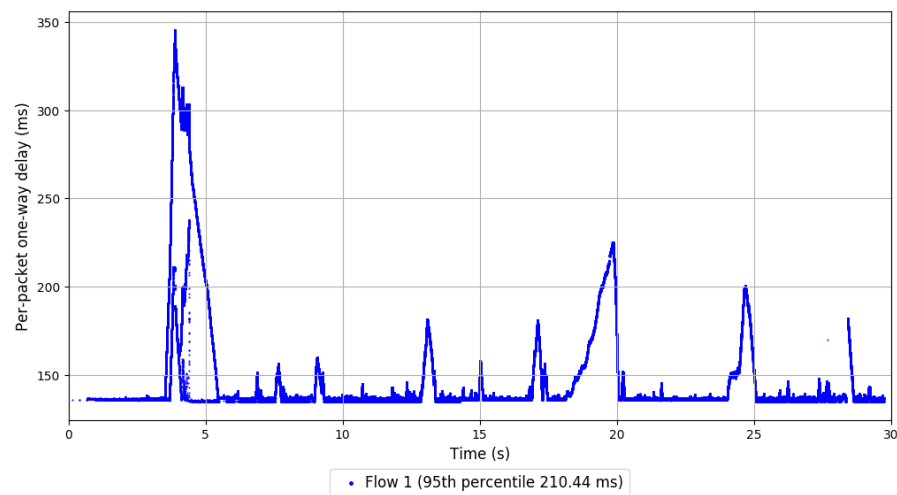
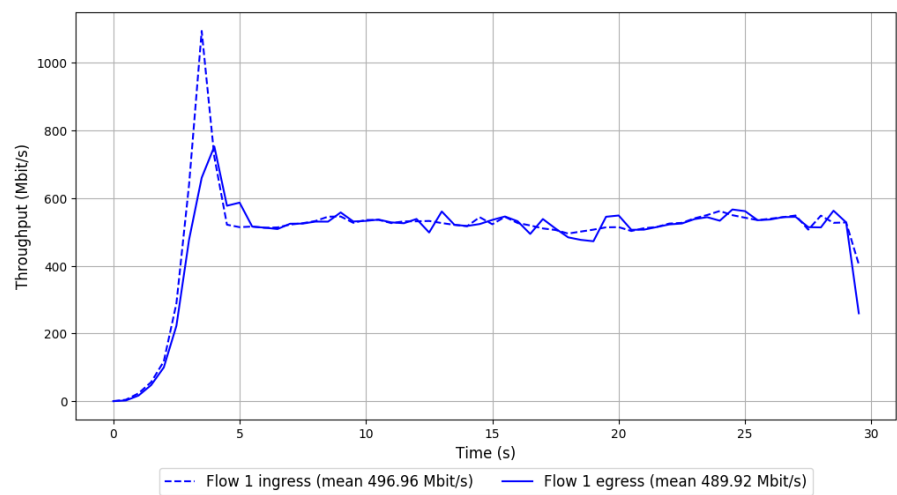
-- Flow 1:

Average throughput: 489.92 Mbit/s

95th percentile per-packet one-way delay: 210.439 ms

Loss rate: 2.31%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-04-10 20:01:18

End at: 2018-04-10 20:01:48

Below is generated by plot.py at 2018-04-11 01:03:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 547.08 Mbit/s

95th percentile per-packet one-way delay: 187.703 ms

Loss rate: 2.08%

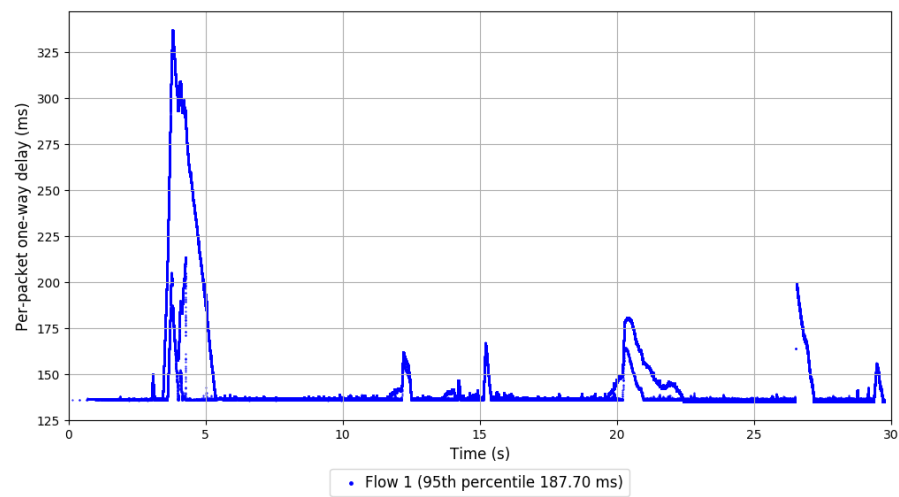
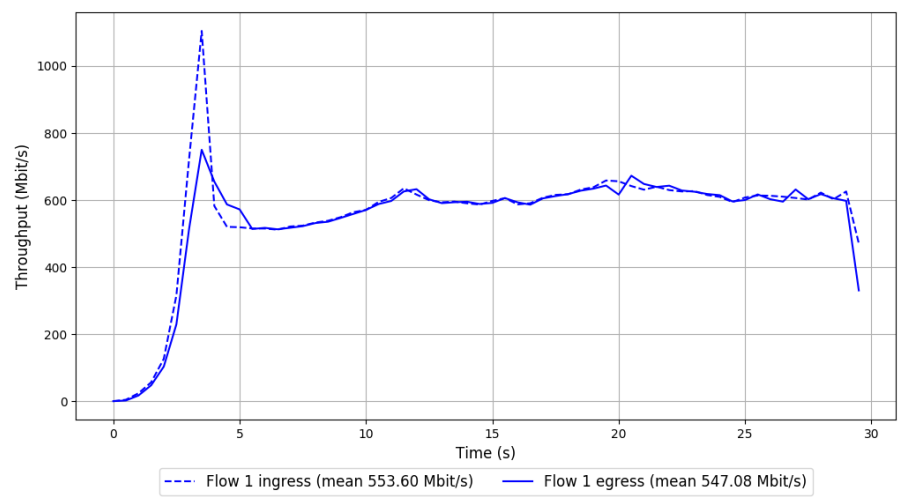
-- Flow 1:

Average throughput: 547.08 Mbit/s

95th percentile per-packet one-way delay: 187.703 ms

Loss rate: 2.08%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-04-10 20:16:36

End at: 2018-04-10 20:17:06

Below is generated by plot.py at 2018-04-11 01:03:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 545.75 Mbit/s

95th percentile per-packet one-way delay: 234.429 ms

Loss rate: 2.66%

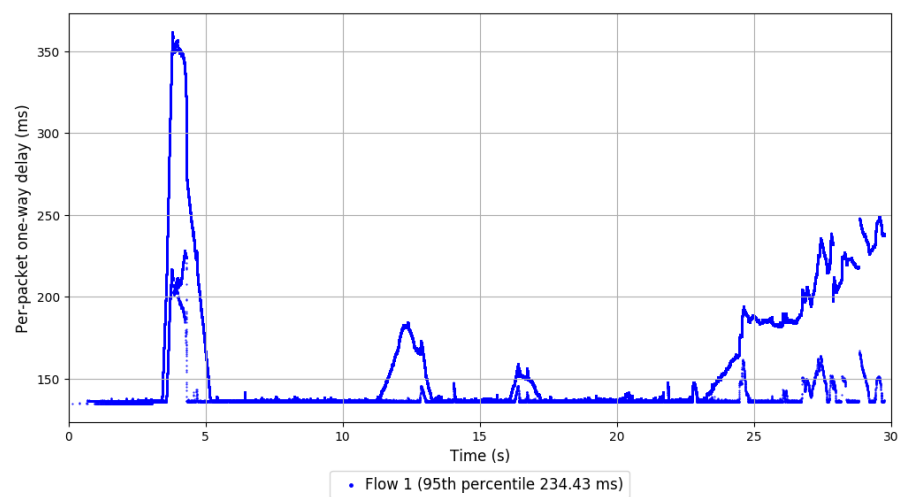
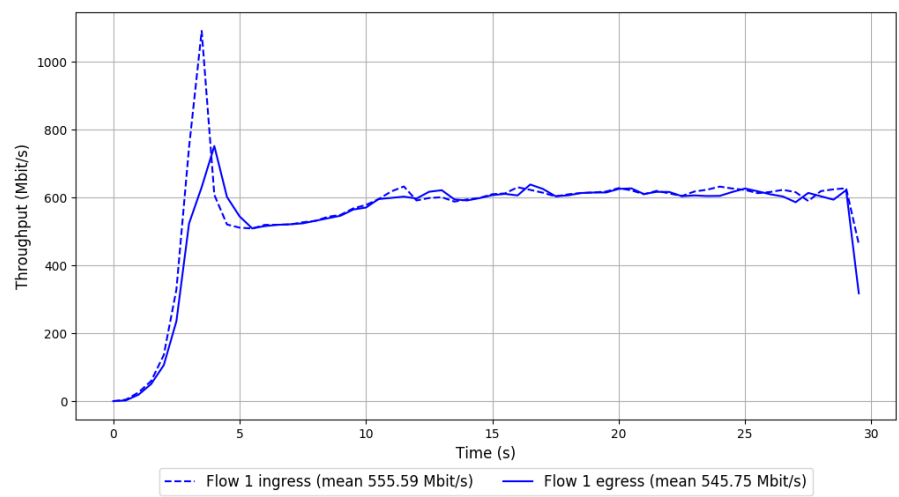
-- Flow 1:

Average throughput: 545.75 Mbit/s

95th percentile per-packet one-way delay: 234.429 ms

Loss rate: 2.66%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-04-10 20:31:55

End at: 2018-04-10 20:32:25

Below is generated by plot.py at 2018-04-11 01:03:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 491.08 Mbit/s

95th percentile per-packet one-way delay: 220.049 ms

Loss rate: 3.58%

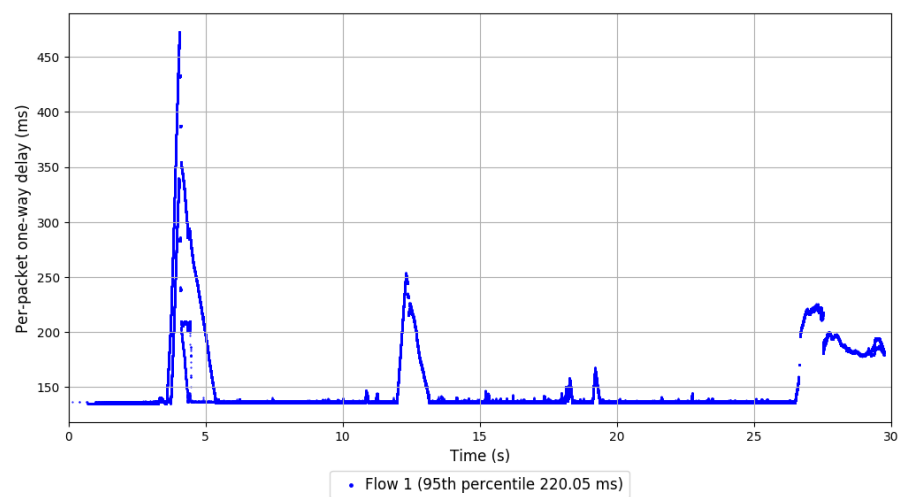
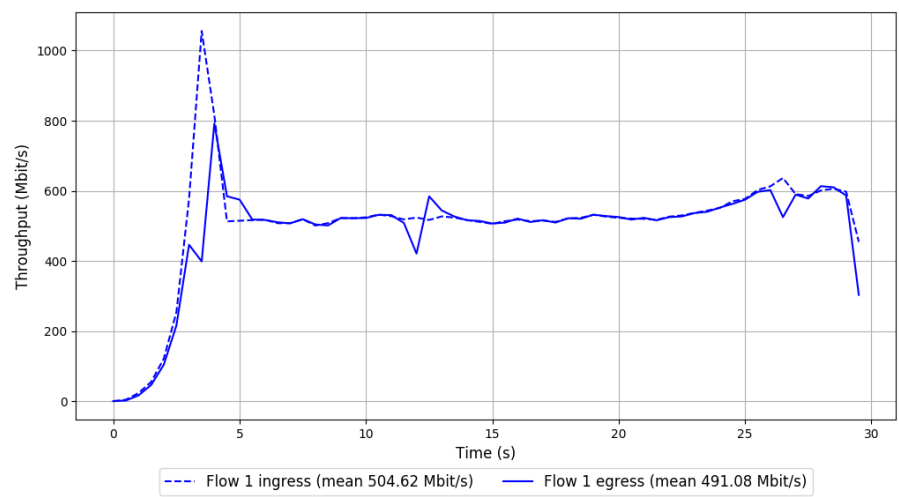
-- Flow 1:

Average throughput: 491.08 Mbit/s

95th percentile per-packet one-way delay: 220.049 ms

Loss rate: 3.58%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-04-10 20:47:40

End at: 2018-04-10 20:48:10

Below is generated by plot.py at 2018-04-11 01:03:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 486.87 Mbit/s

95th percentile per-packet one-way delay: 261.704 ms

Loss rate: 3.22%

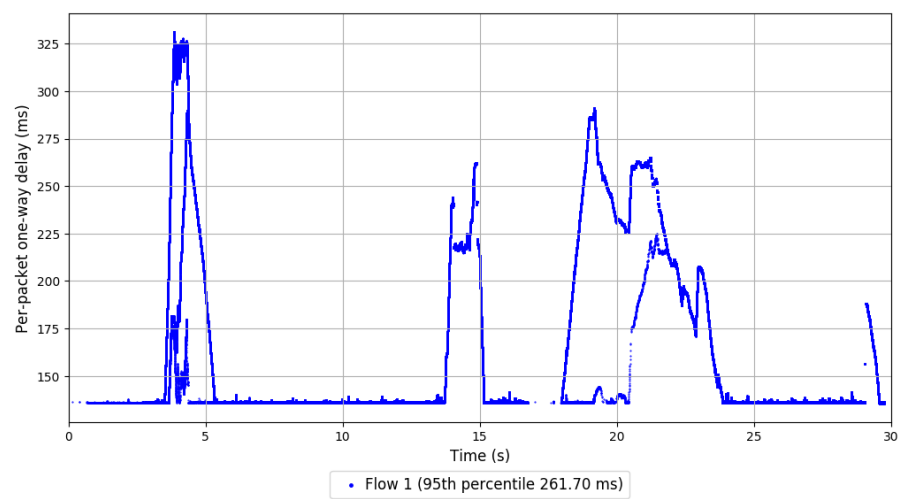
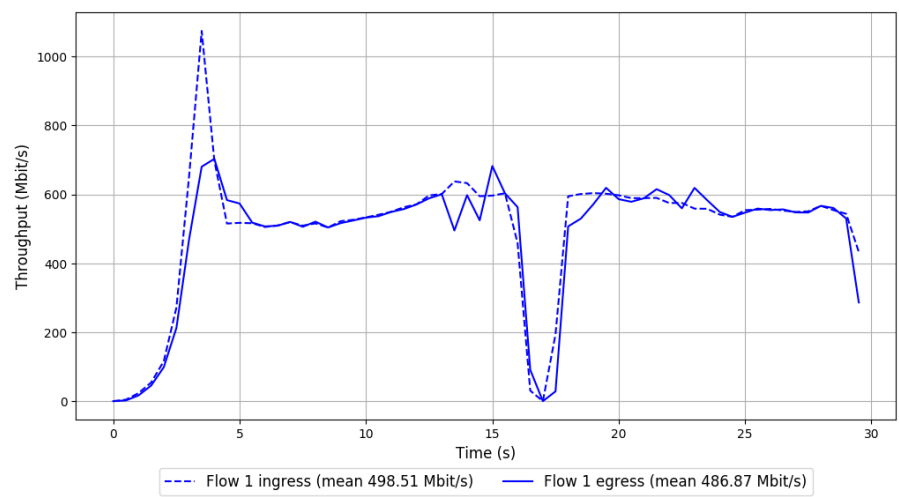
-- Flow 1:

Average throughput: 486.87 Mbit/s

95th percentile per-packet one-way delay: 261.704 ms

Loss rate: 3.22%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-04-10 21:02:58

End at: 2018-04-10 21:03:28

Below is generated by plot.py at 2018-04-11 01:03:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 486.80 Mbit/s

95th percentile per-packet one-way delay: 244.605 ms

Loss rate: 4.02%

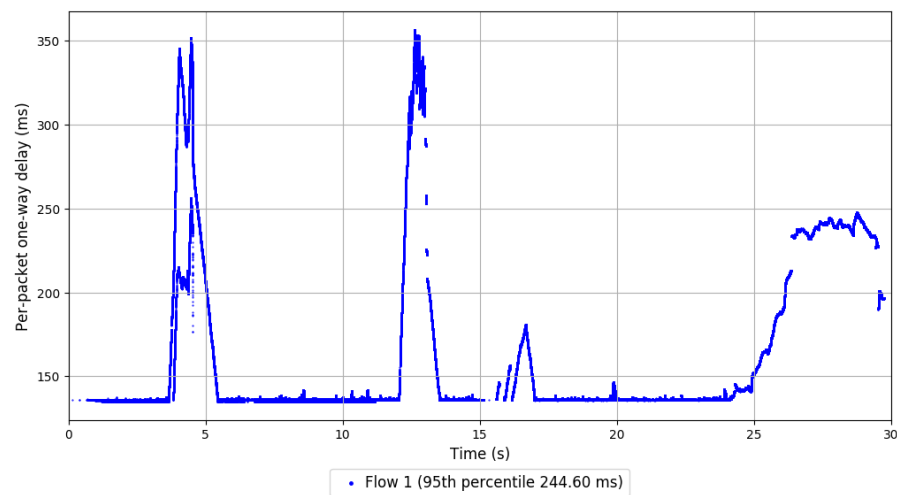
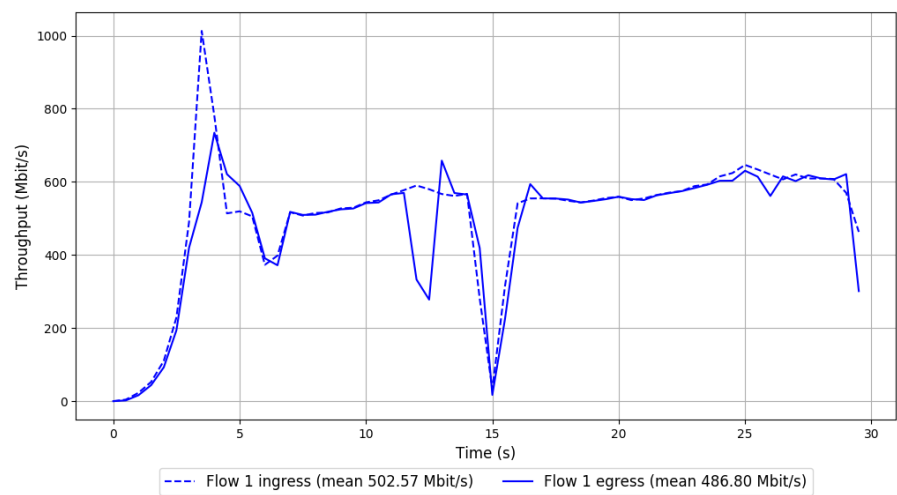
-- Flow 1:

Average throughput: 486.80 Mbit/s

95th percentile per-packet one-way delay: 244.605 ms

Loss rate: 4.02%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-04-10 21:18:44

End at: 2018-04-10 21:19:14

Below is generated by plot.py at 2018-04-11 01:04:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 527.65 Mbit/s

95th percentile per-packet one-way delay: 225.958 ms

Loss rate: 2.89%

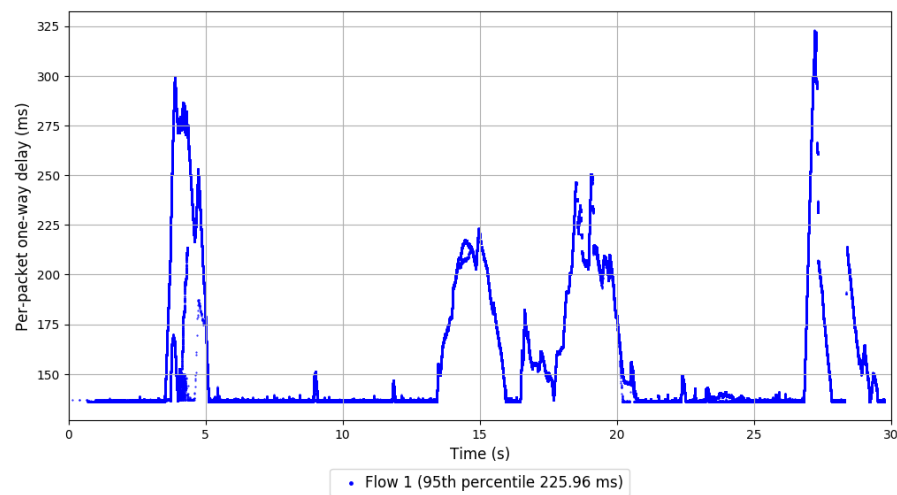
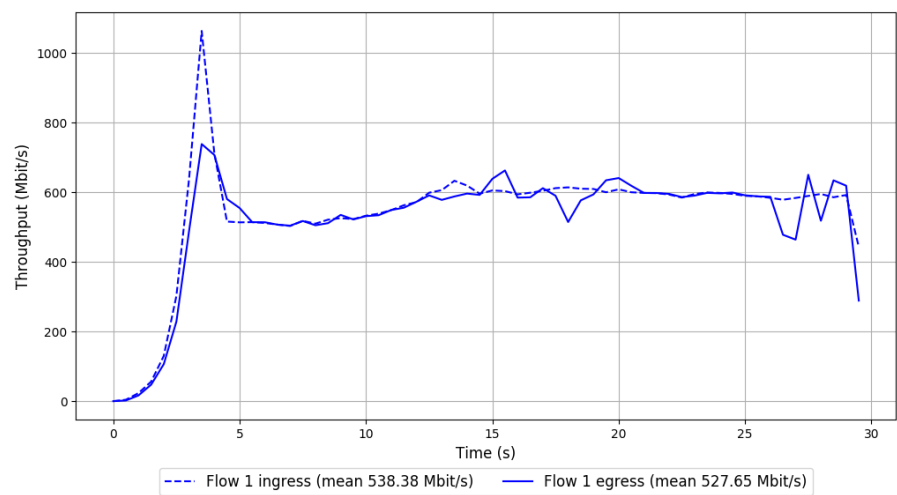
-- Flow 1:

Average throughput: 527.65 Mbit/s

95th percentile per-packet one-way delay: 225.958 ms

Loss rate: 2.89%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-04-10 21:34:12

End at: 2018-04-10 21:34:42

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 532.30 Mbit/s

95th percentile per-packet one-way delay: 262.329 ms

Loss rate: 3.03%

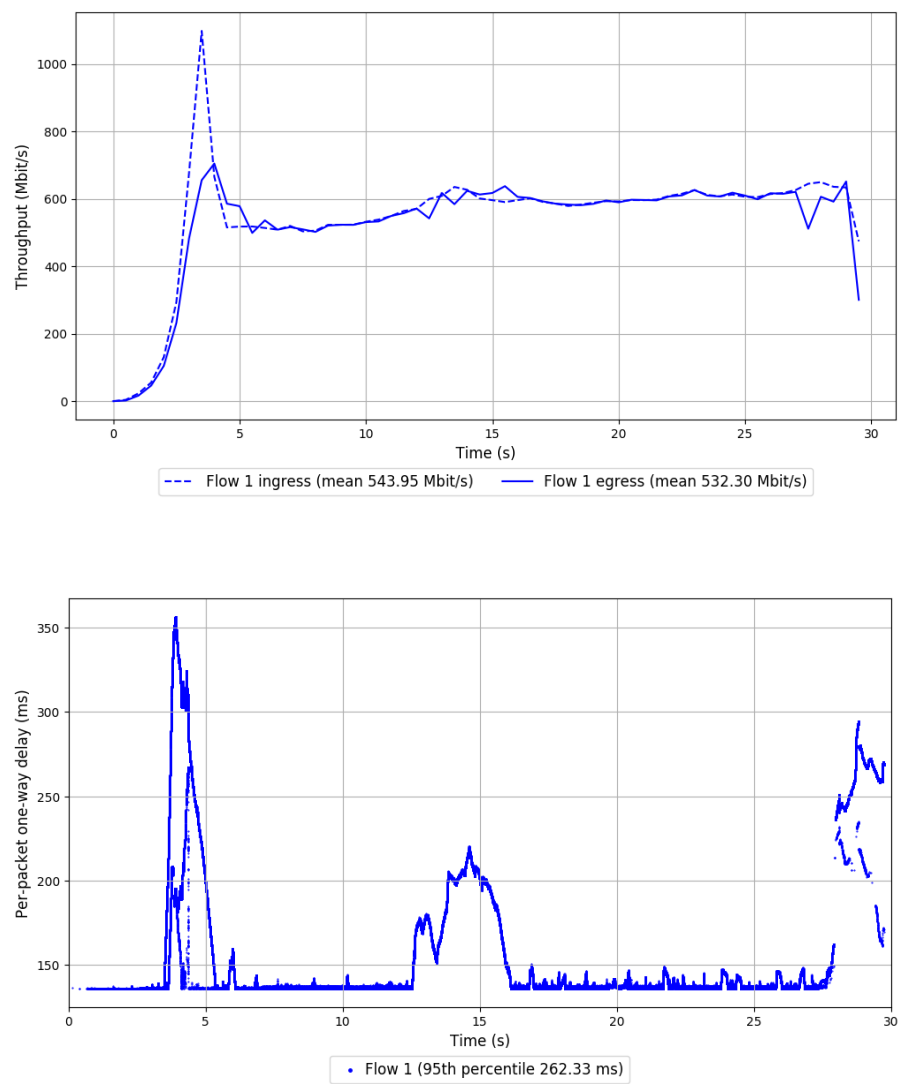
-- Flow 1:

Average throughput: 532.30 Mbit/s

95th percentile per-packet one-way delay: 262.329 ms

Loss rate: 3.03%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-04-10 21:49:53

End at: 2018-04-10 21:50:23

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 417.57 Mbit/s

95th percentile per-packet one-way delay: 243.701 ms

Loss rate: 2.96%

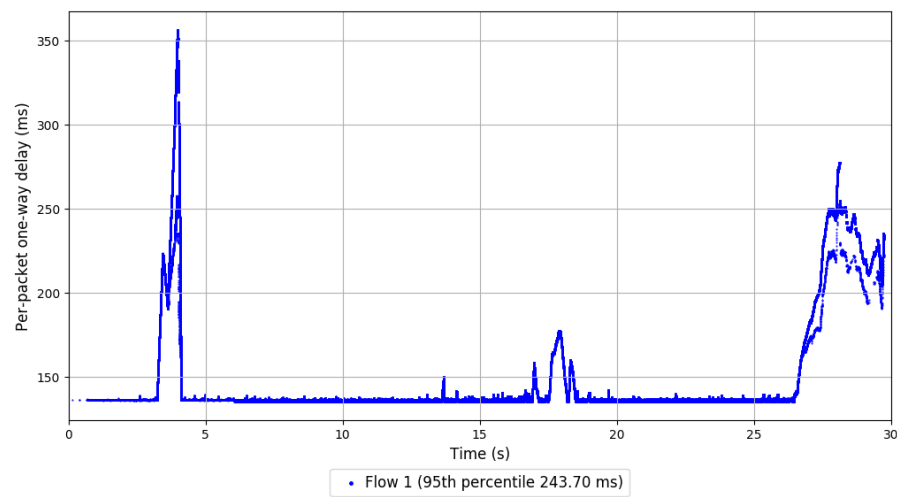
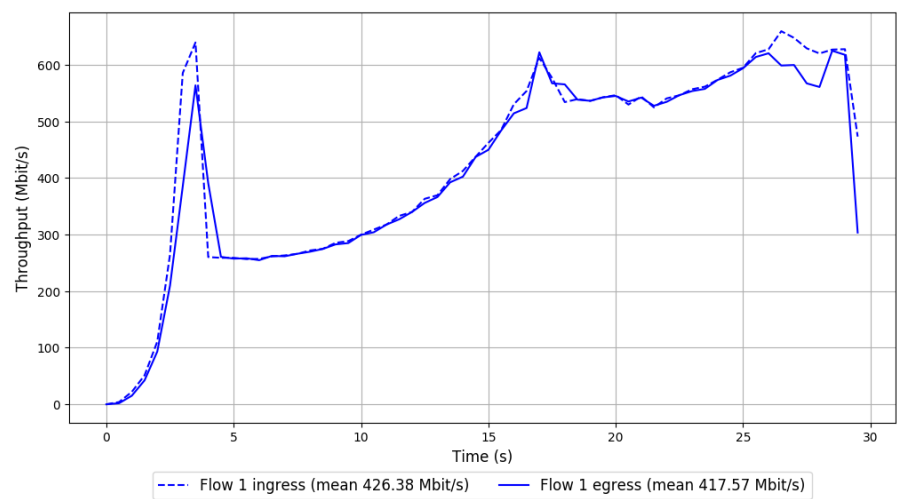
-- Flow 1:

Average throughput: 417.57 Mbit/s

95th percentile per-packet one-way delay: 243.701 ms

Loss rate: 2.96%

Run 10: Report of PCC — Data Link

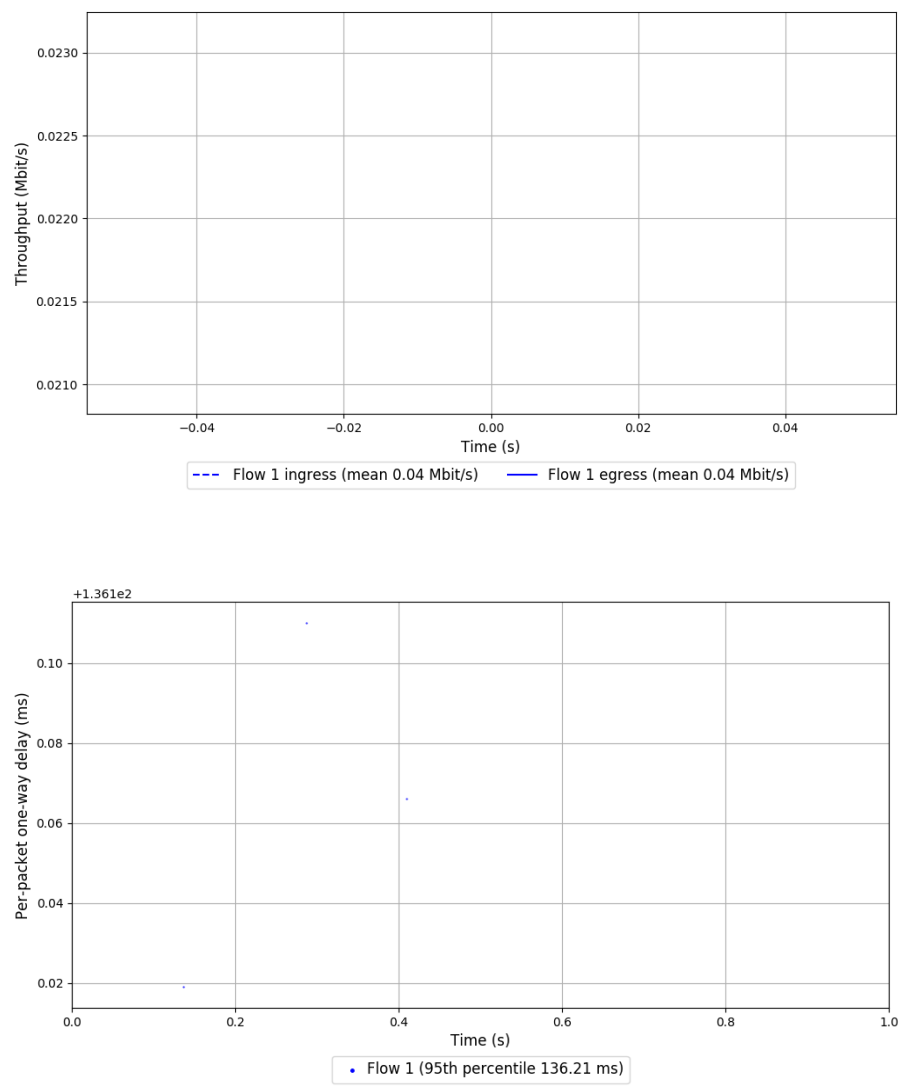


Run 1: Statistics of QUIC Cubic

Start at: 2018-04-10 19:37:58

End at: 2018-04-10 19:38:29

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-10 19:53:15

End at: 2018-04-10 19:53:45

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.79 Mbit/s

95th percentile per-packet one-way delay: 136.784 ms

Loss rate: 1.36%

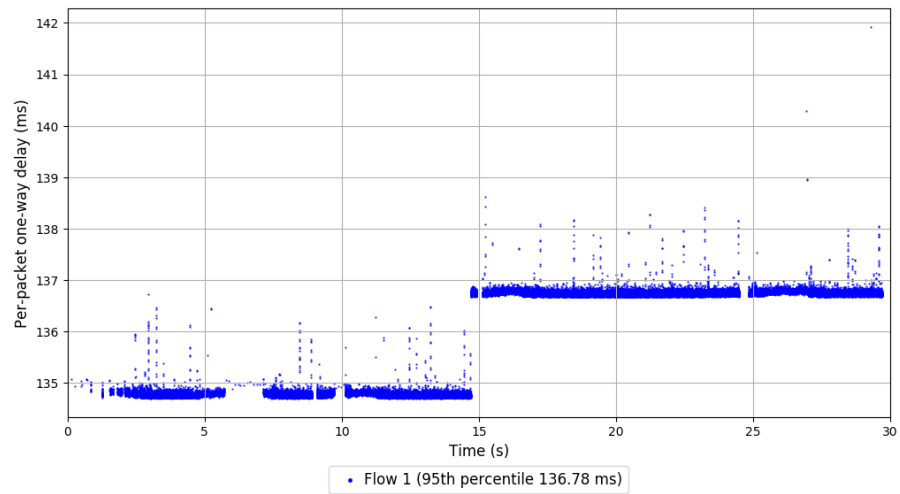
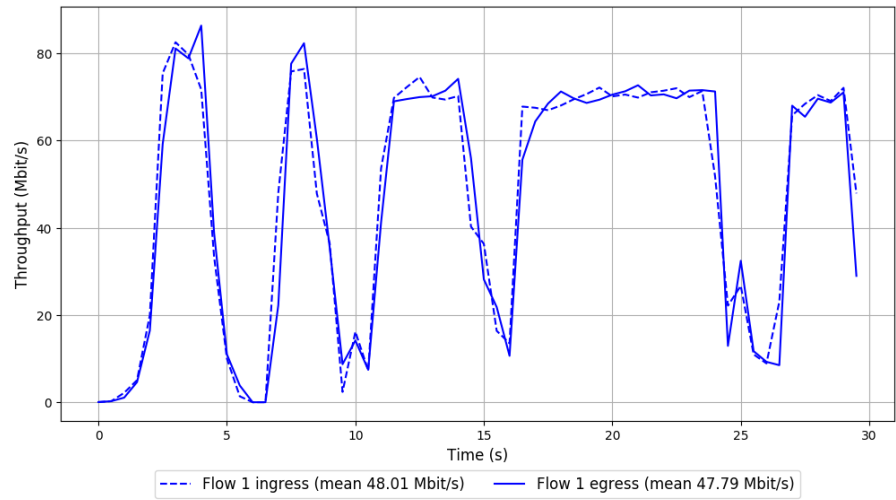
-- Flow 1:

Average throughput: 47.79 Mbit/s

95th percentile per-packet one-way delay: 136.784 ms

Loss rate: 1.36%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-10 20:08:38

End at: 2018-04-10 20:09:08

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.41 Mbit/s

95th percentile per-packet one-way delay: 135.816 ms

Loss rate: 1.21%

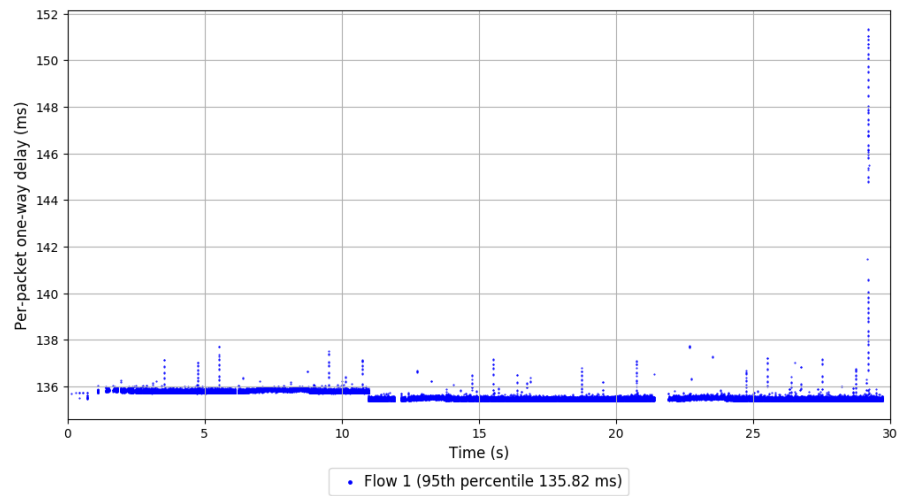
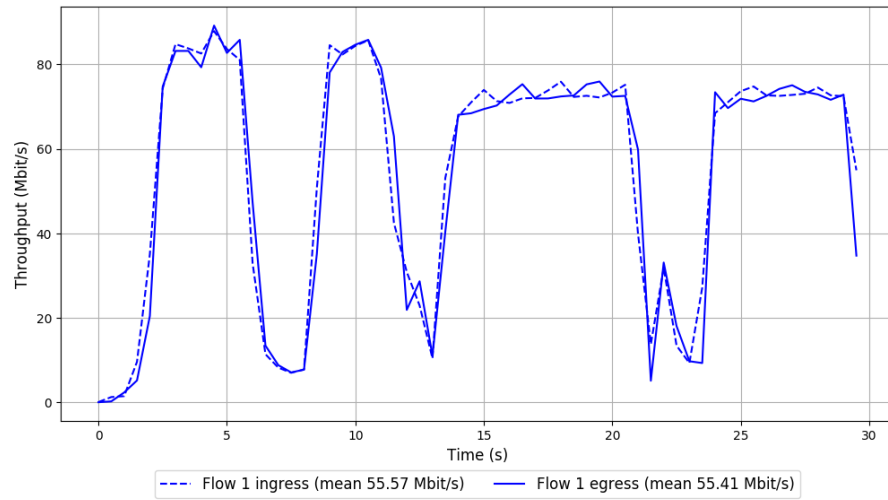
-- Flow 1:

Average throughput: 55.41 Mbit/s

95th percentile per-packet one-way delay: 135.816 ms

Loss rate: 1.21%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-10 20:23:53

End at: 2018-04-10 20:24:23

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.30 Mbit/s

95th percentile per-packet one-way delay: 135.799 ms

Loss rate: 1.42%

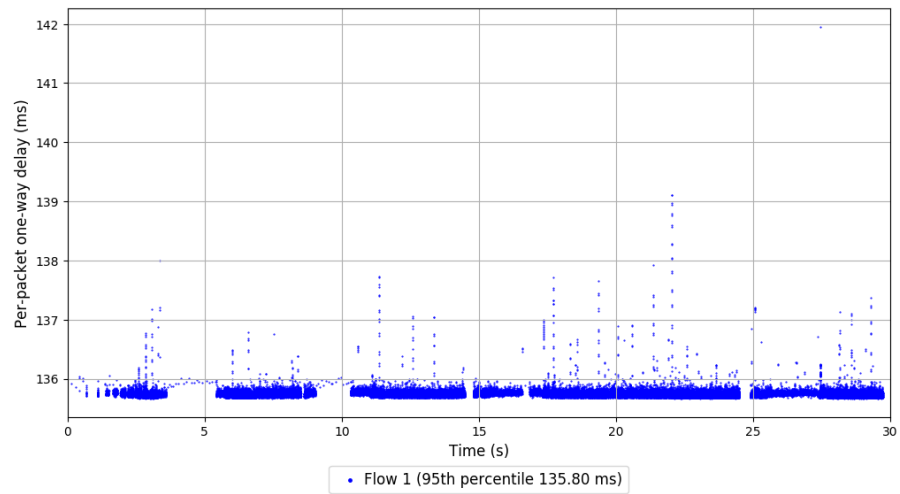
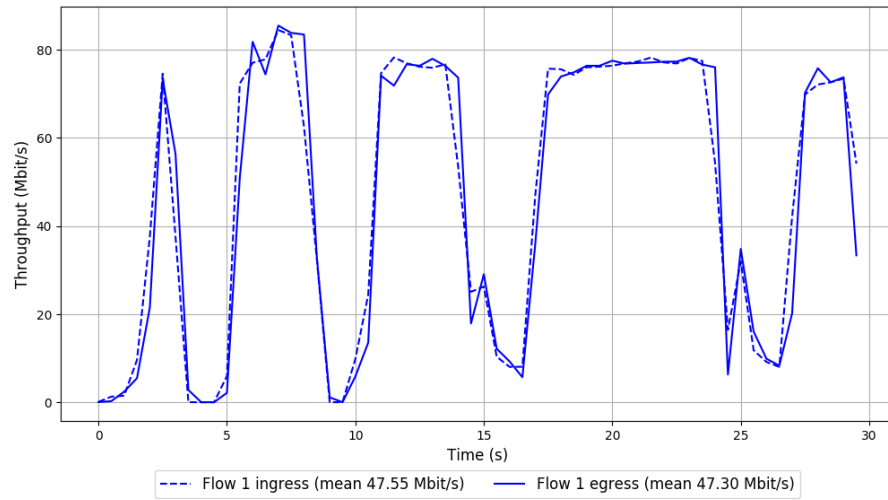
-- Flow 1:

Average throughput: 47.30 Mbit/s

95th percentile per-packet one-way delay: 135.799 ms

Loss rate: 1.42%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-10 20:39:15

End at: 2018-04-10 20:39:45

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.83 Mbit/s

95th percentile per-packet one-way delay: 135.866 ms

Loss rate: 1.32%

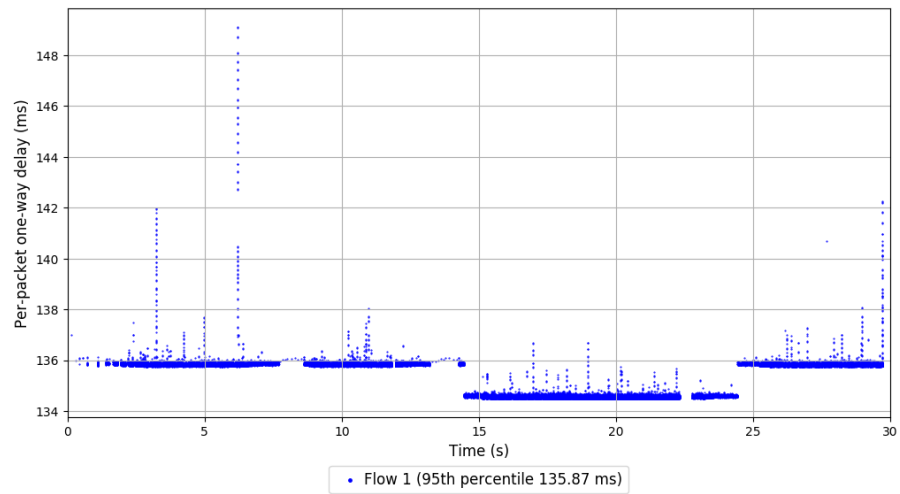
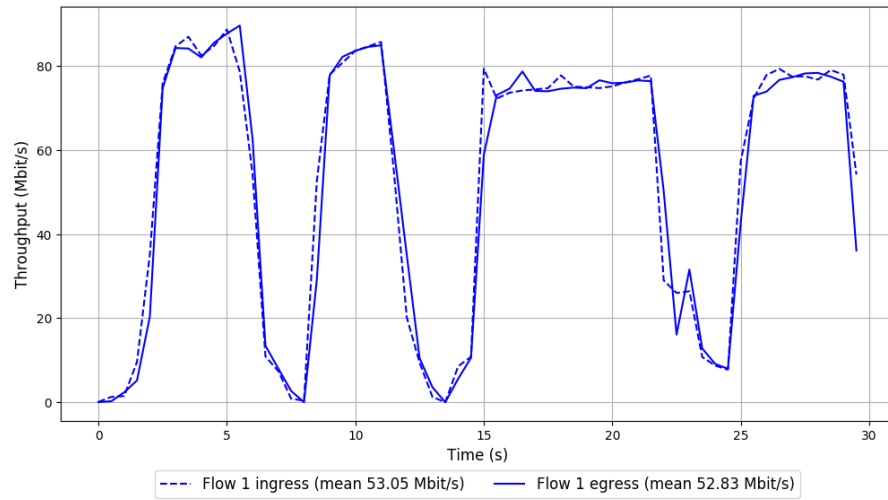
-- Flow 1:

Average throughput: 52.83 Mbit/s

95th percentile per-packet one-way delay: 135.866 ms

Loss rate: 1.32%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-10 20:54:54

End at: 2018-04-10 20:55:24

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.06 Mbit/s

95th percentile per-packet one-way delay: 136.465 ms

Loss rate: 1.27%

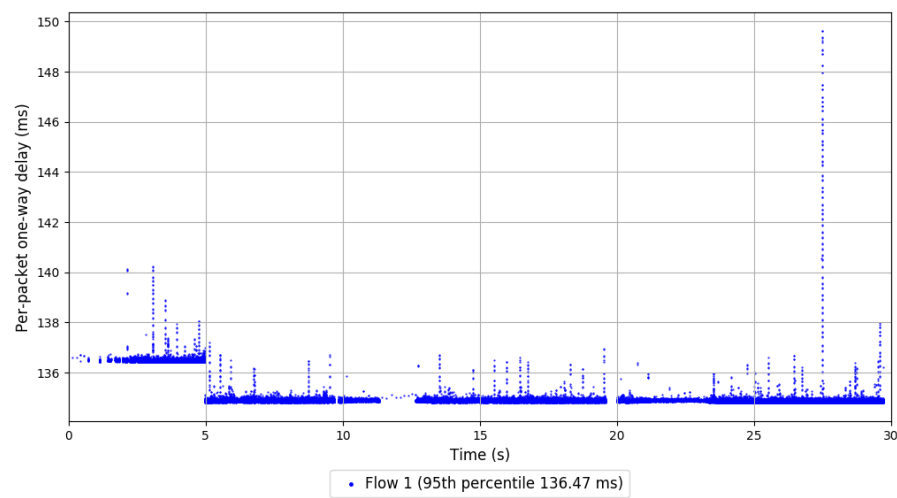
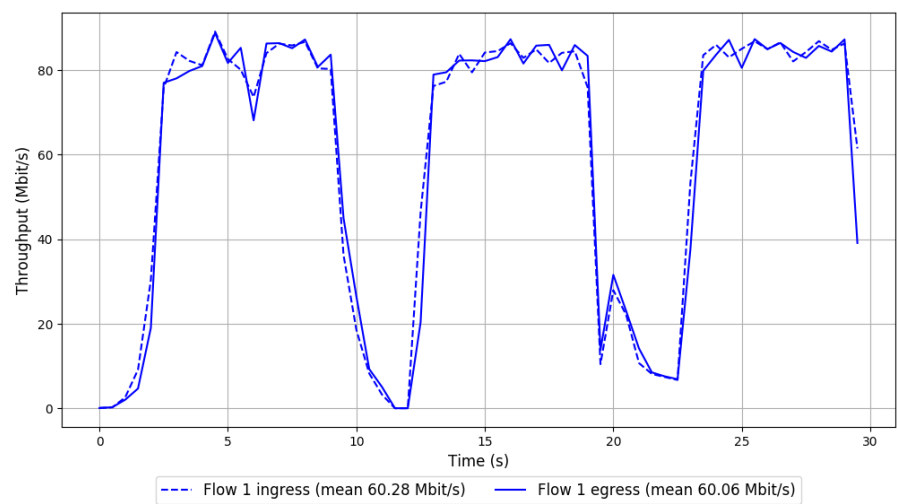
-- Flow 1:

Average throughput: 60.06 Mbit/s

95th percentile per-packet one-way delay: 136.465 ms

Loss rate: 1.27%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-10 21:10:18

End at: 2018-04-10 21:10:48

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.27 Mbit/s

95th percentile per-packet one-way delay: 136.806 ms

Loss rate: 1.22%

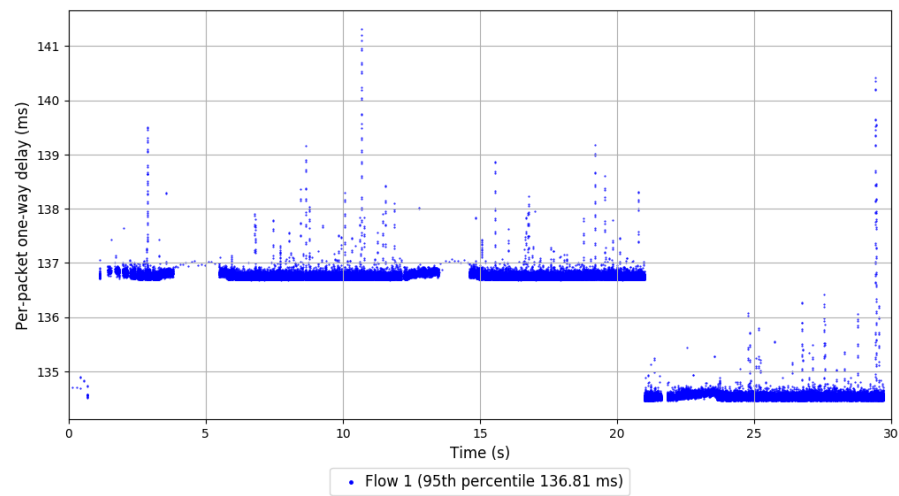
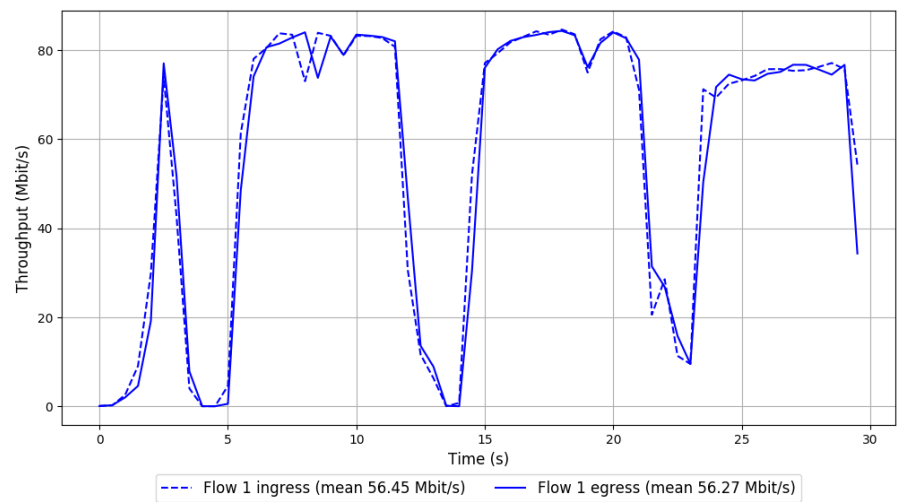
-- Flow 1:

Average throughput: 56.27 Mbit/s

95th percentile per-packet one-way delay: 136.806 ms

Loss rate: 1.22%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-10 21:26:05

End at: 2018-04-10 21:26:35

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.92 Mbit/s

95th percentile per-packet one-way delay: 135.958 ms

Loss rate: 1.21%

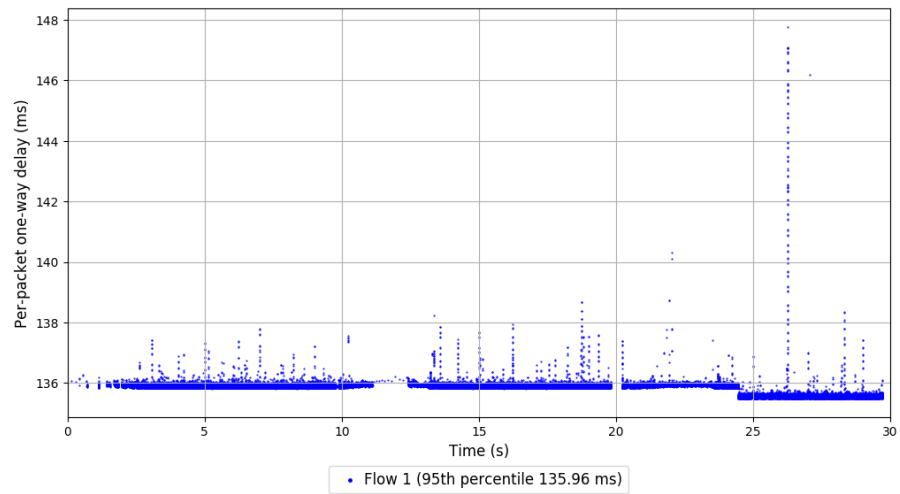
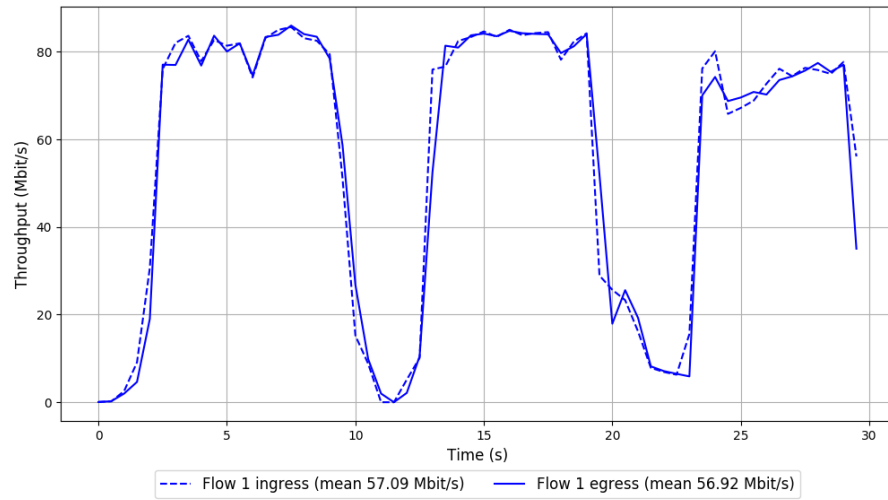
-- Flow 1:

Average throughput: 56.92 Mbit/s

95th percentile per-packet one-way delay: 135.958 ms

Loss rate: 1.21%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-10 21:41:46

End at: 2018-04-10 21:42:16

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.95 Mbit/s

95th percentile per-packet one-way delay: 134.867 ms

Loss rate: 1.45%

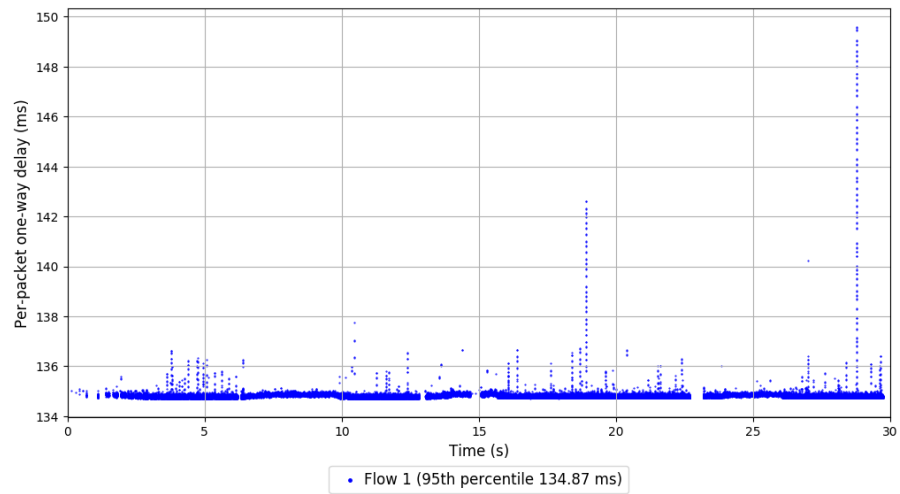
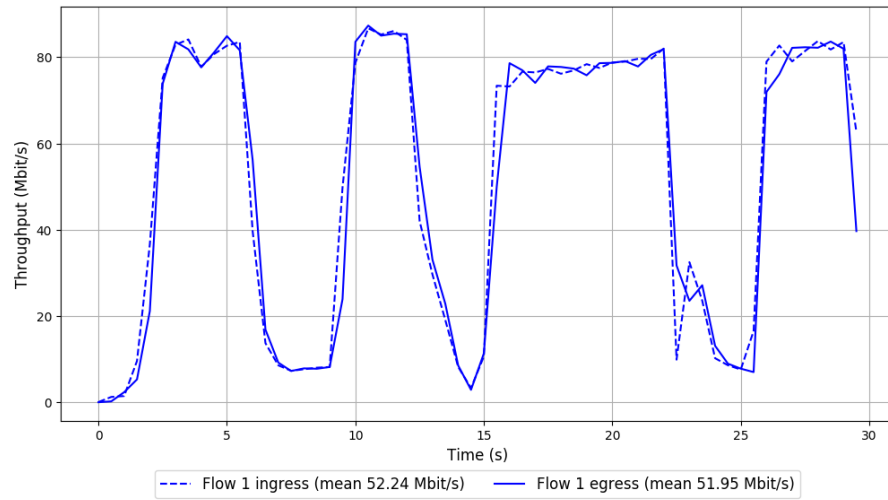
-- Flow 1:

Average throughput: 51.95 Mbit/s

95th percentile per-packet one-way delay: 134.867 ms

Loss rate: 1.45%

Run 9: Report of QUIC Cubic — Data Link

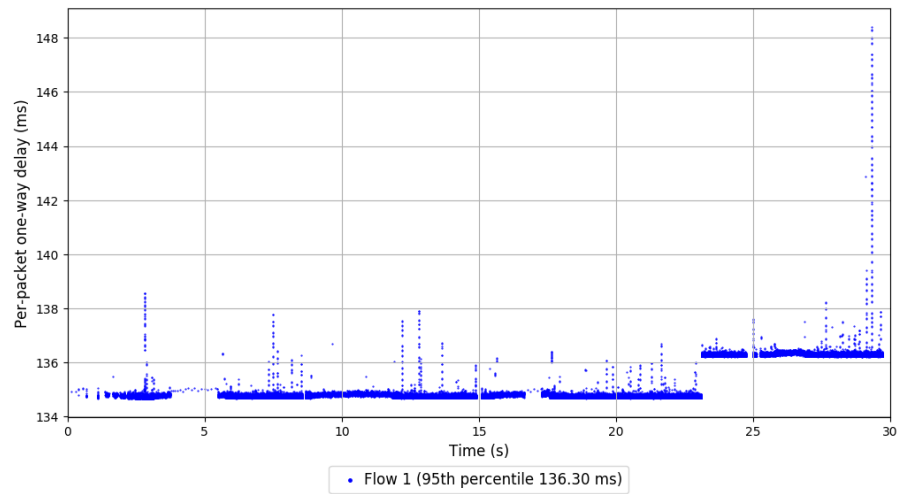
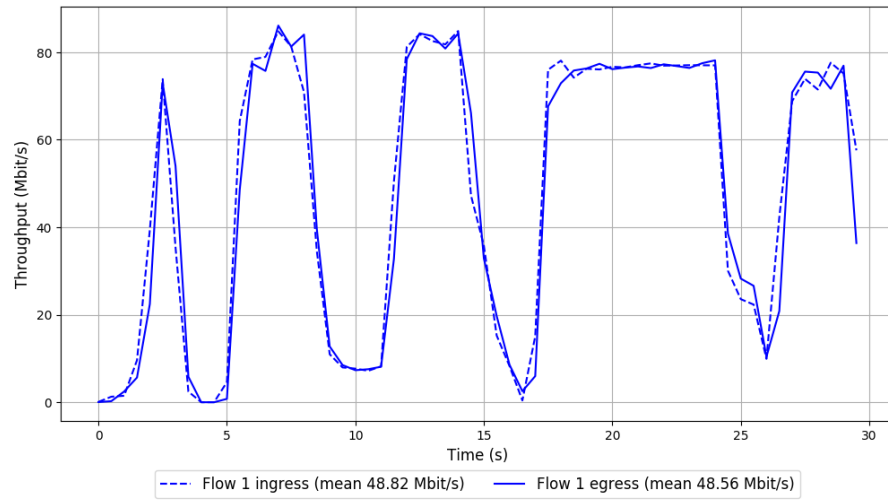


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-04-10 21:57:16
End at: 2018-04-10 21:57:46

# Below is generated by plot.py at 2018-04-11 01:12:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.56 Mbit/s
95th percentile per-packet one-way delay: 136.300 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 48.56 Mbit/s
95th percentile per-packet one-way delay: 136.300 ms
Loss rate: 1.43%
```

Run 10: Report of QUIC Cubic — Data Link

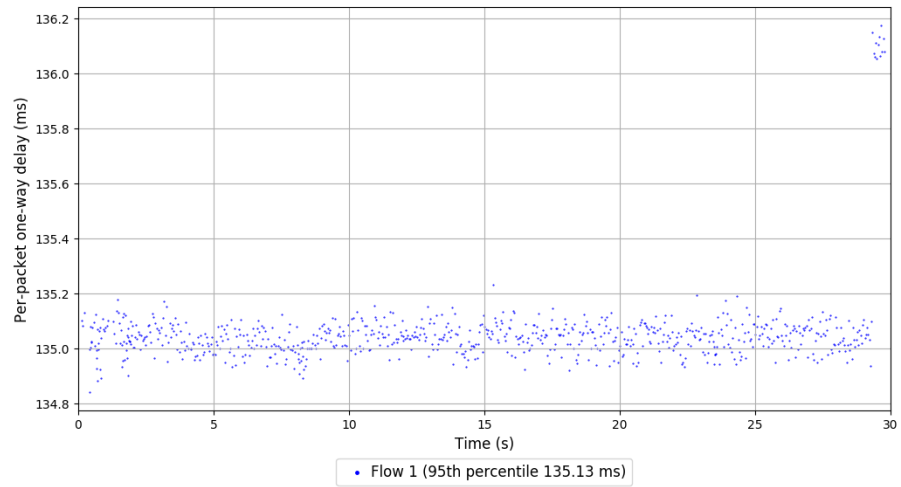
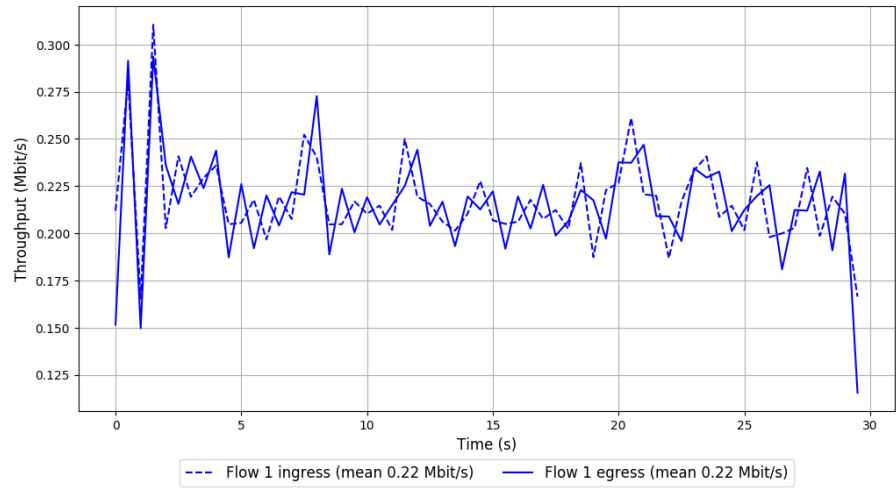


```
Run 1: Statistics of SCReAM

Start at: 2018-04-10 19:42:20
End at: 2018-04-10 19:42:50

# Below is generated by plot.py at 2018-04-11 01:12:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.128 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.128 ms
Loss rate: 0.77%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-04-10 19:57:42

End at: 2018-04-10 19:58:12

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.519 ms

Loss rate: 0.89%

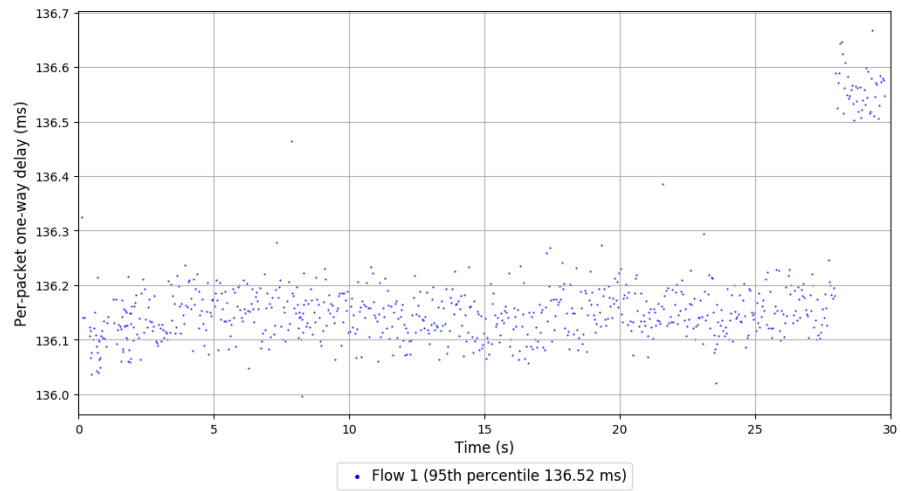
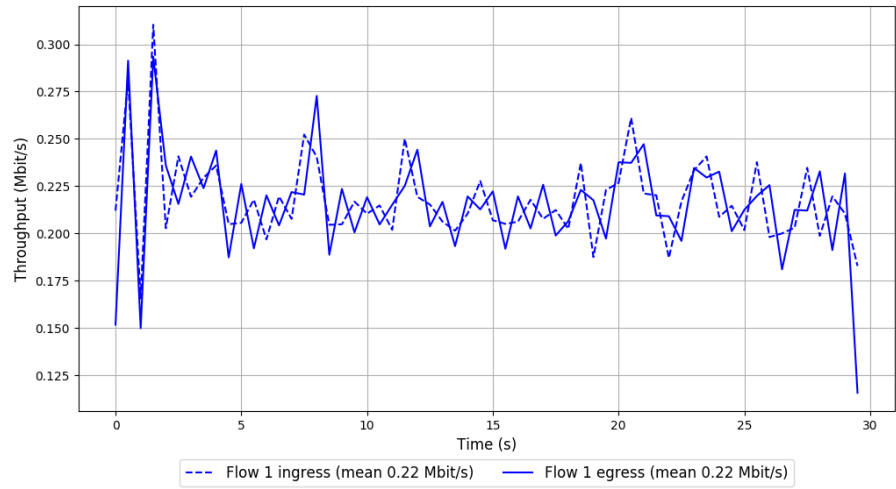
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.519 ms

Loss rate: 0.89%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-04-10 20:13:05

End at: 2018-04-10 20:13:35

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.89%

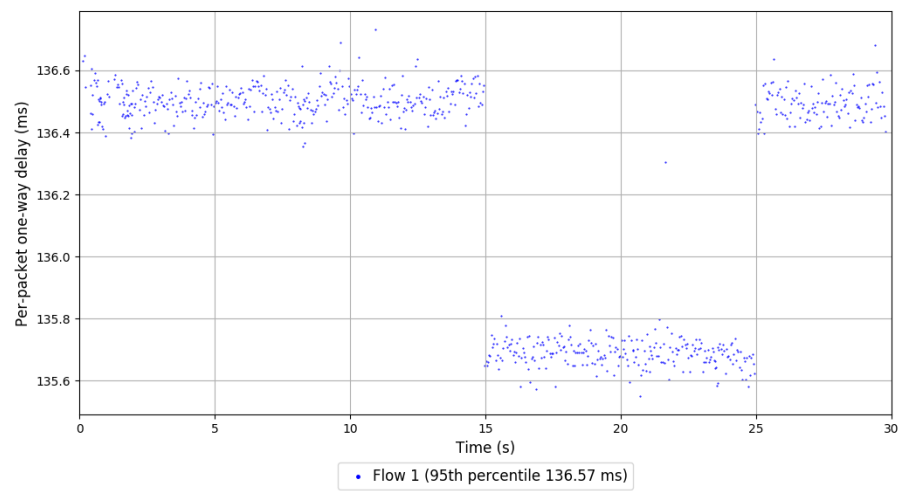
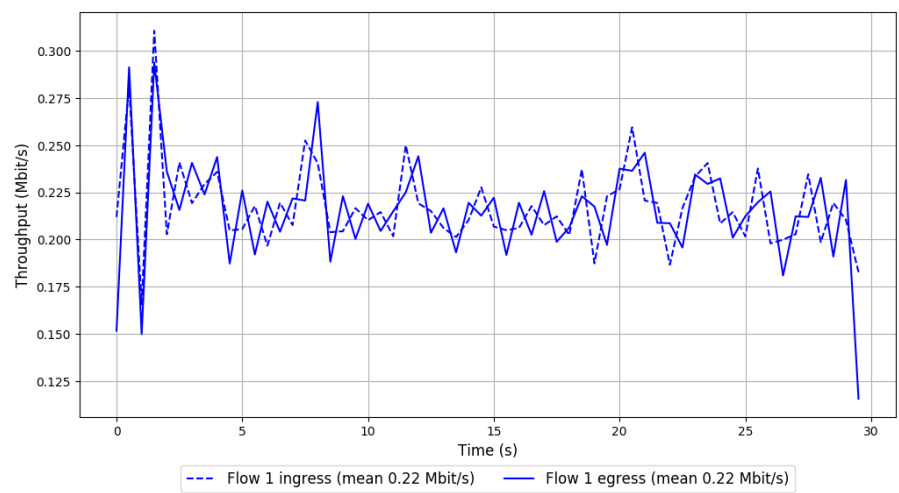
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.89%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-04-10 20:28:18

End at: 2018-04-10 20:28:48

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.321 ms

Loss rate: 0.89%

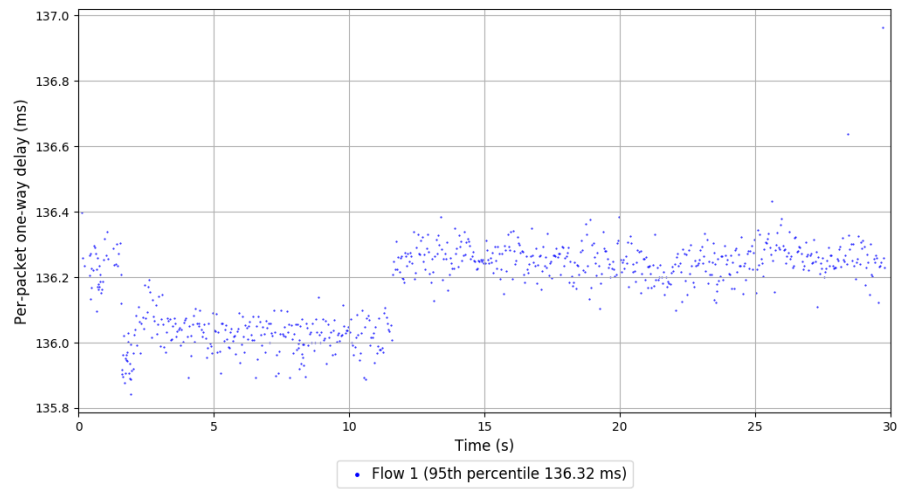
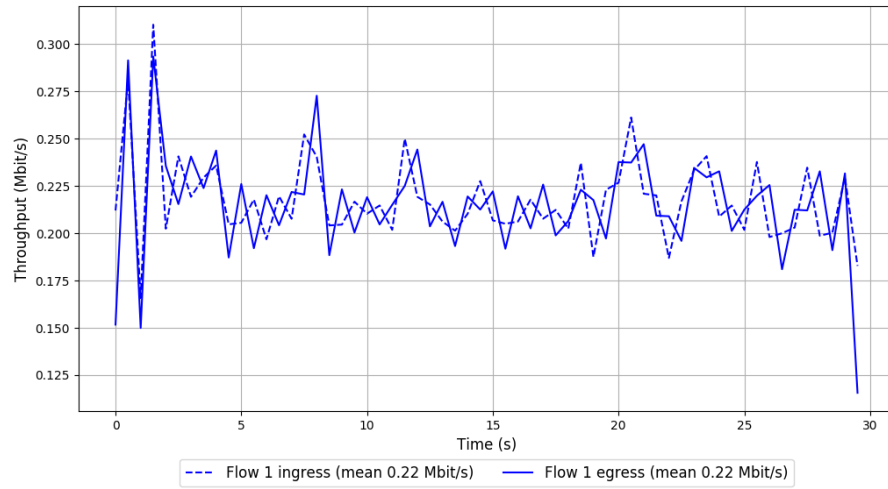
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.321 ms

Loss rate: 0.89%

Run 4: Report of SCRaM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-04-10 20:44:06

End at: 2018-04-10 20:44:37

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.186 ms

Loss rate: 0.89%

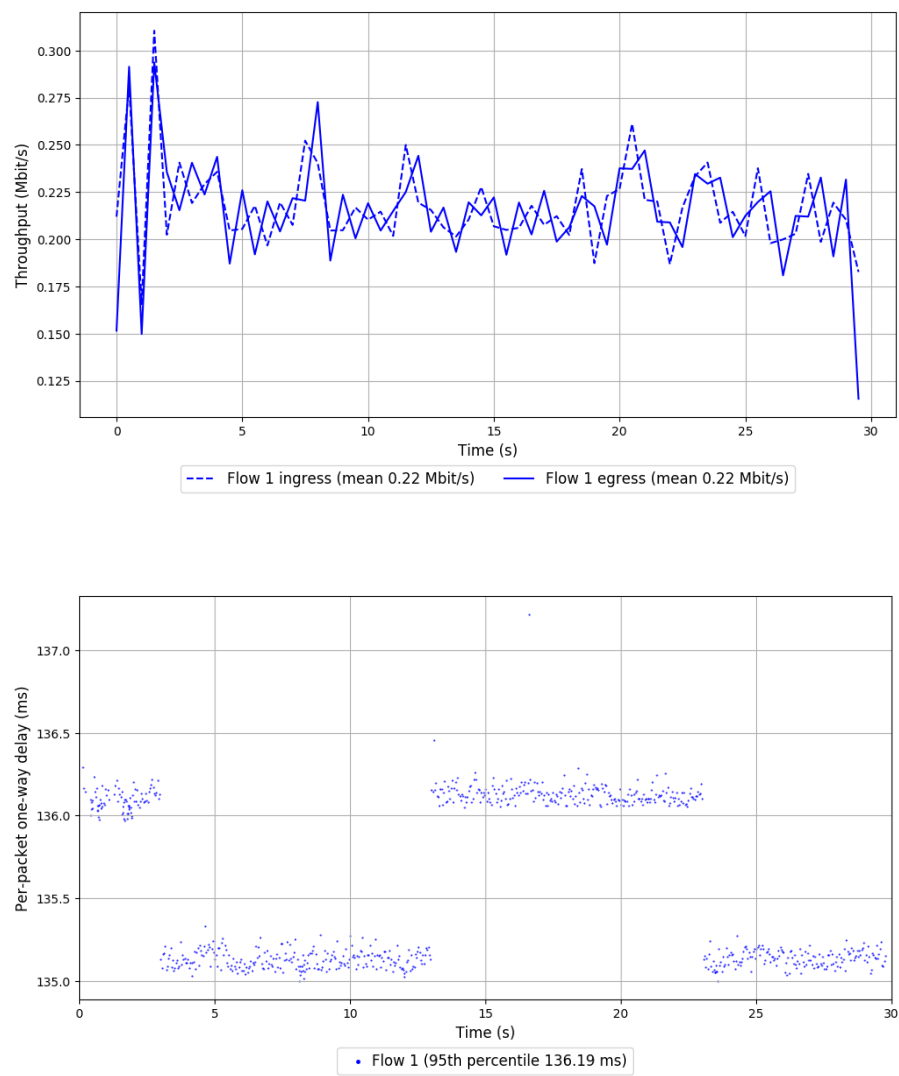
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.186 ms

Loss rate: 0.89%

Run 5: Report of SCRaM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-04-10 20:59:22

End at: 2018-04-10 20:59:52

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.136 ms

Loss rate: 0.89%

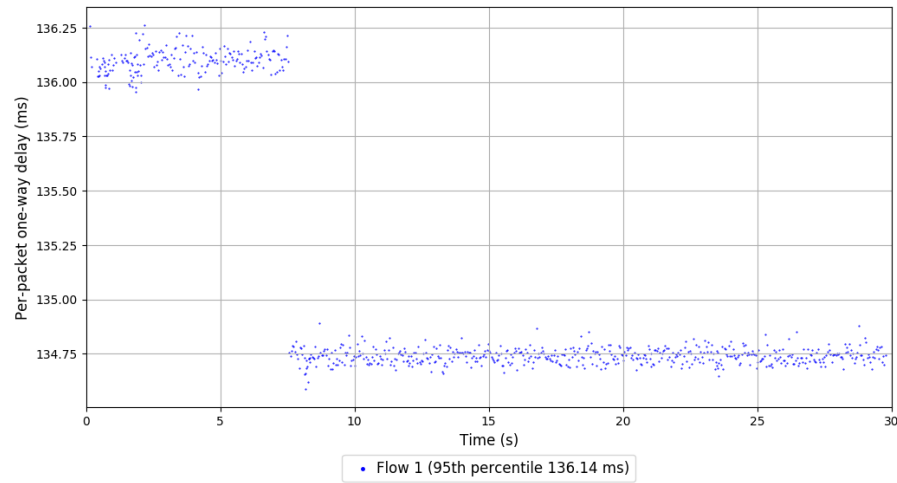
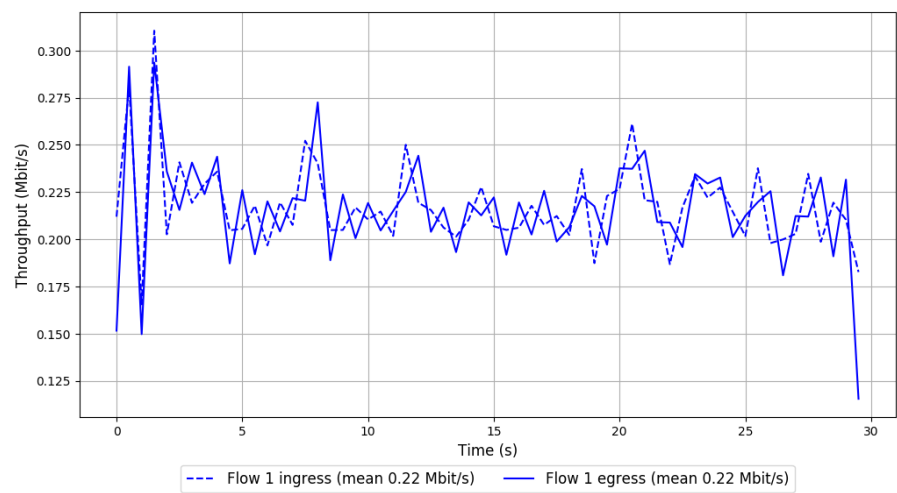
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.136 ms

Loss rate: 0.89%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-04-10 21:15:09

End at: 2018-04-10 21:15:39

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.391 ms

Loss rate: 0.89%

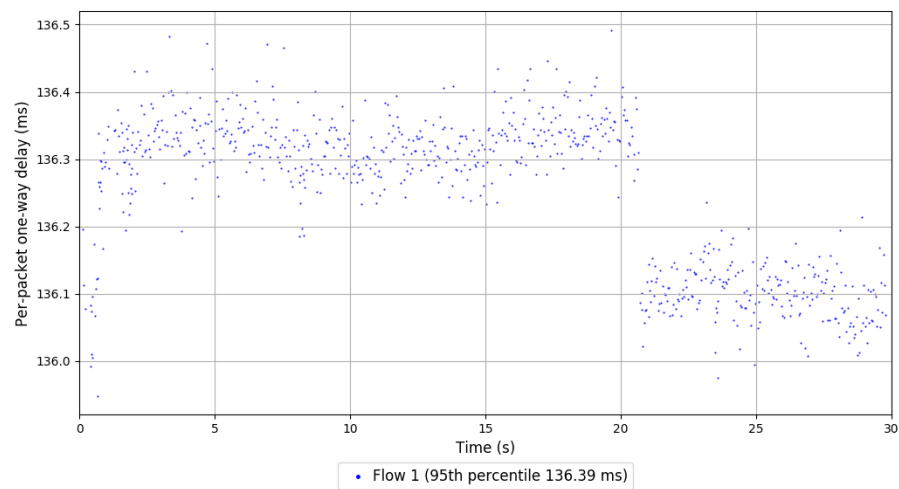
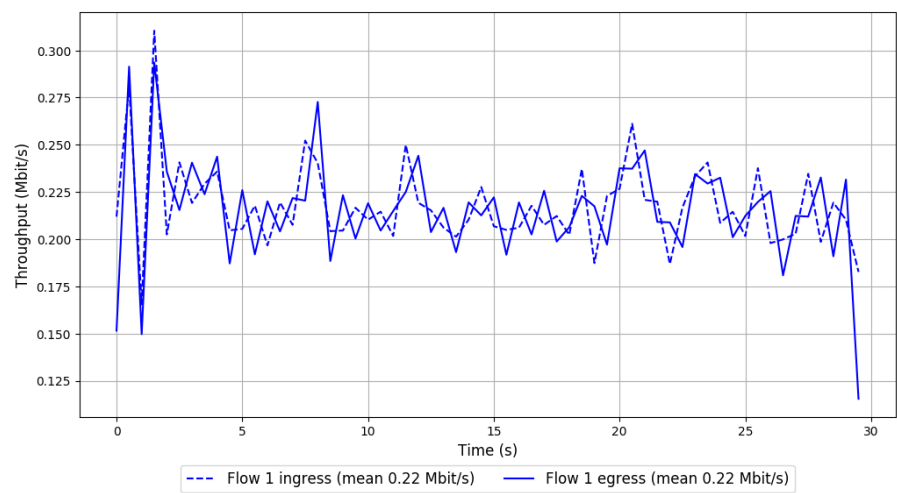
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.391 ms

Loss rate: 0.89%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-04-10 21:30:57

End at: 2018-04-10 21:31:27

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.141 ms

Loss rate: 0.89%

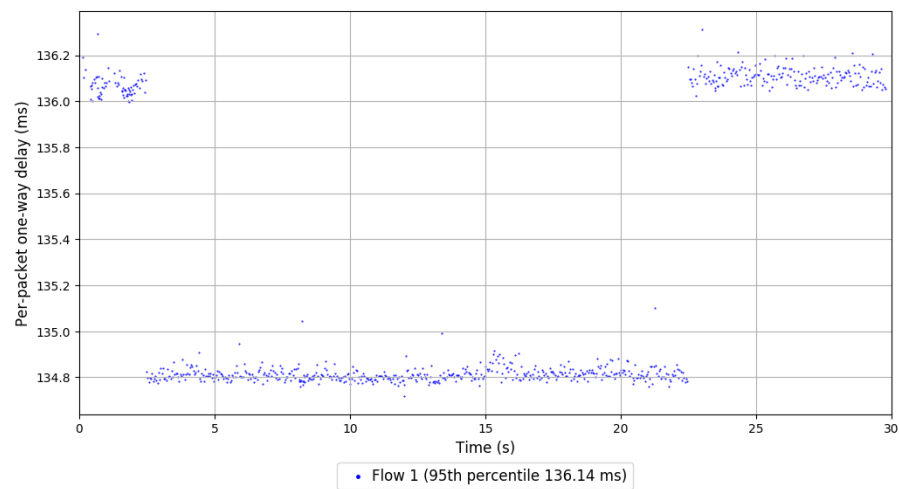
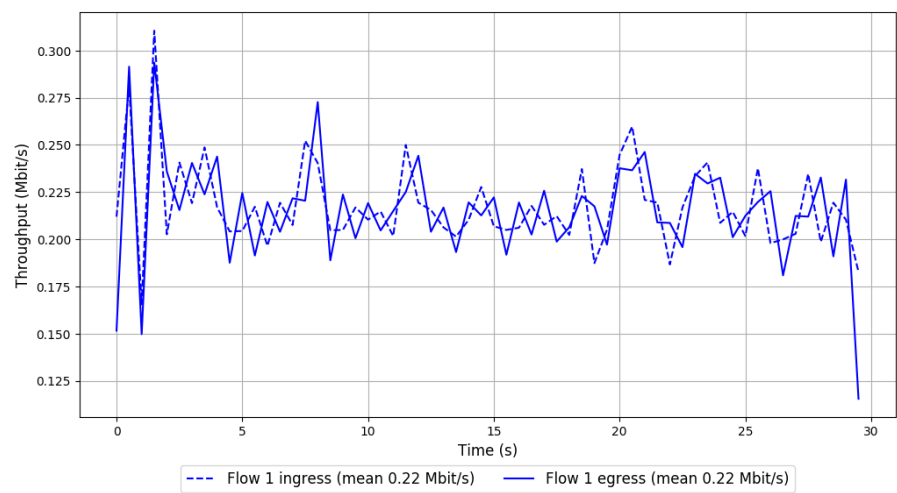
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.141 ms

Loss rate: 0.89%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-04-10 21:46:36

End at: 2018-04-10 21:47:06

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.302 ms

Loss rate: 0.89%

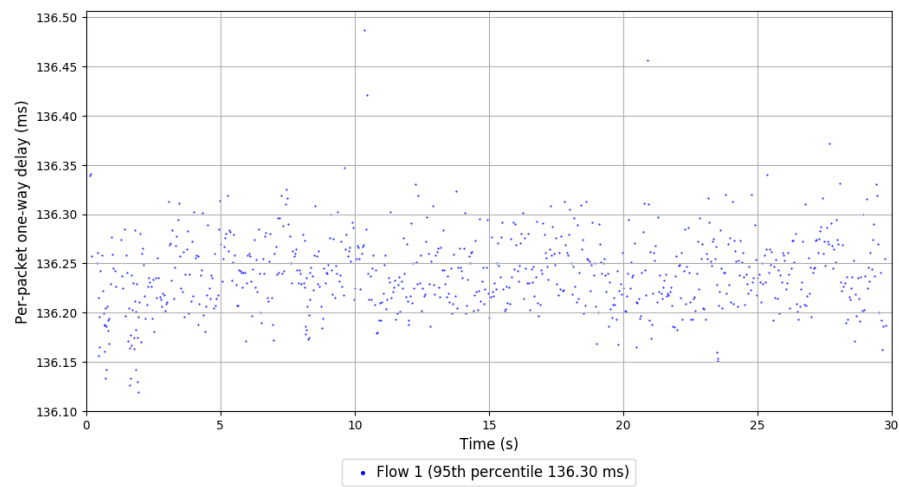
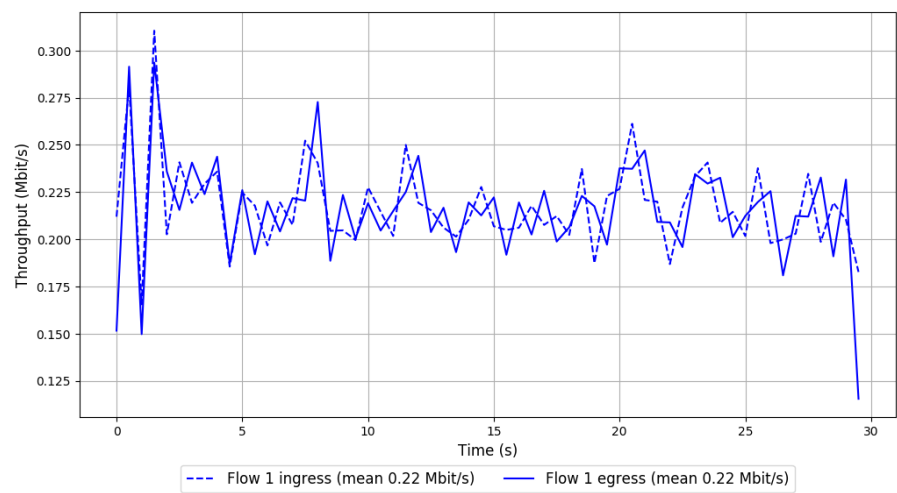
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.302 ms

Loss rate: 0.89%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-04-10 22:01:42

End at: 2018-04-10 22:02:12

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.646 ms

Loss rate: 0.89%

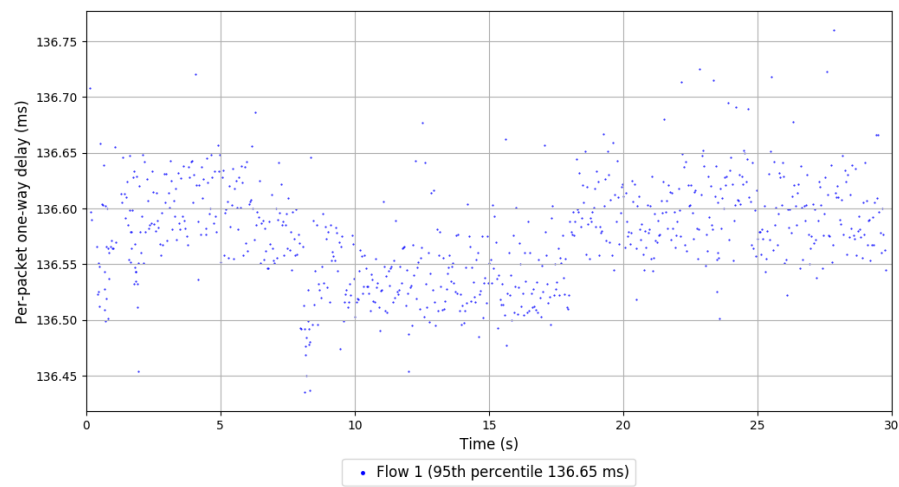
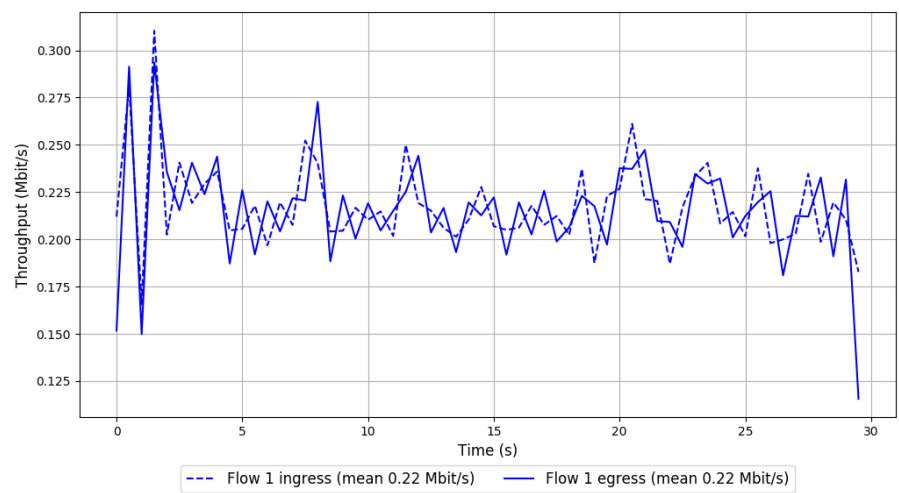
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.646 ms

Loss rate: 0.89%

Run 10: Report of SReAM — Data Link

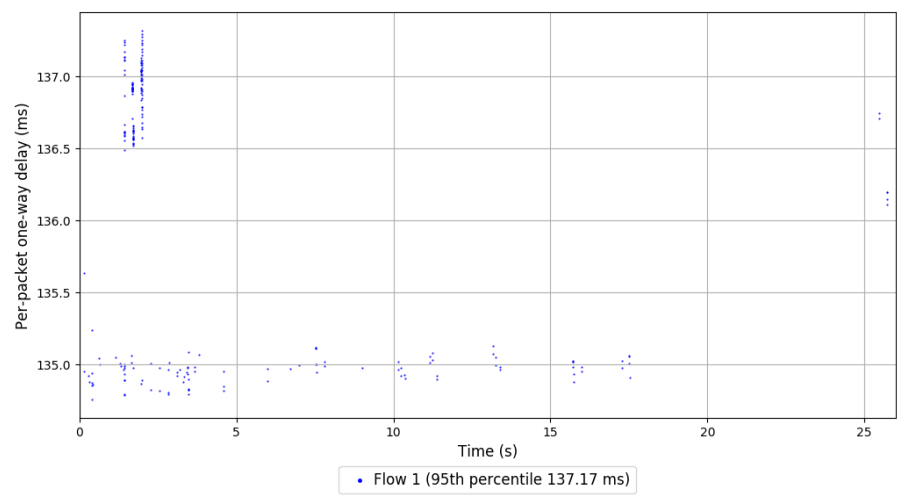
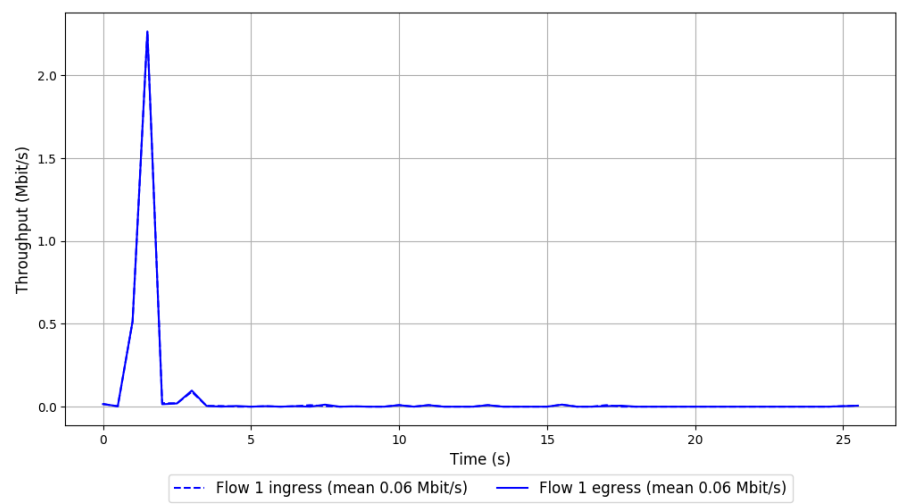


```
Run 1: Statistics of WebRTC media

Start at: 2018-04-10 19:41:38
End at: 2018-04-10 19:42:09

# Below is generated by plot.py at 2018-04-11 01:12:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 137.167 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 137.167 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-04-10 19:57:00

End at: 2018-04-10 19:57:30

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.784 ms

Loss rate: 0.00%

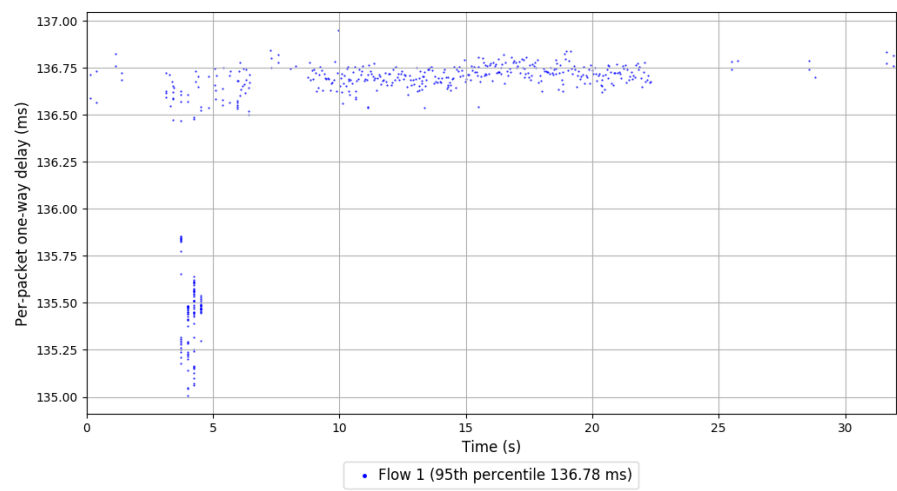
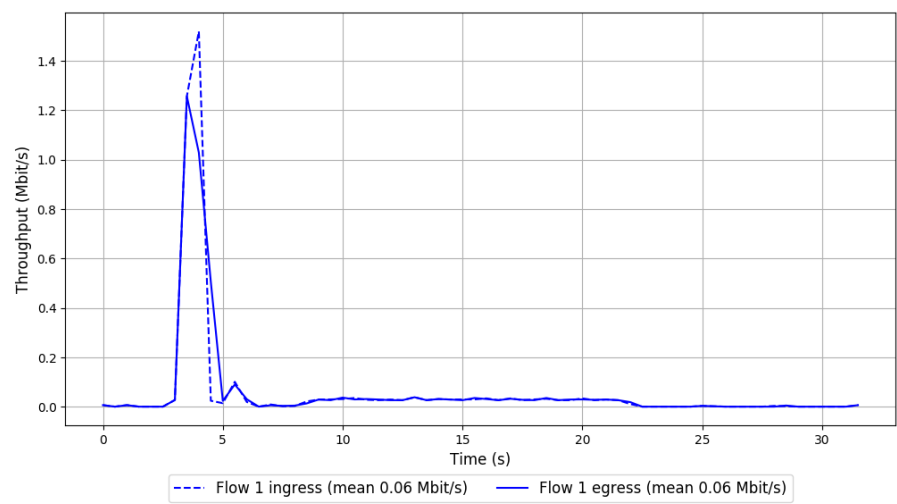
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.784 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-10 20:12:23

End at: 2018-04-10 20:12:53

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.864 ms

Loss rate: 0.00%

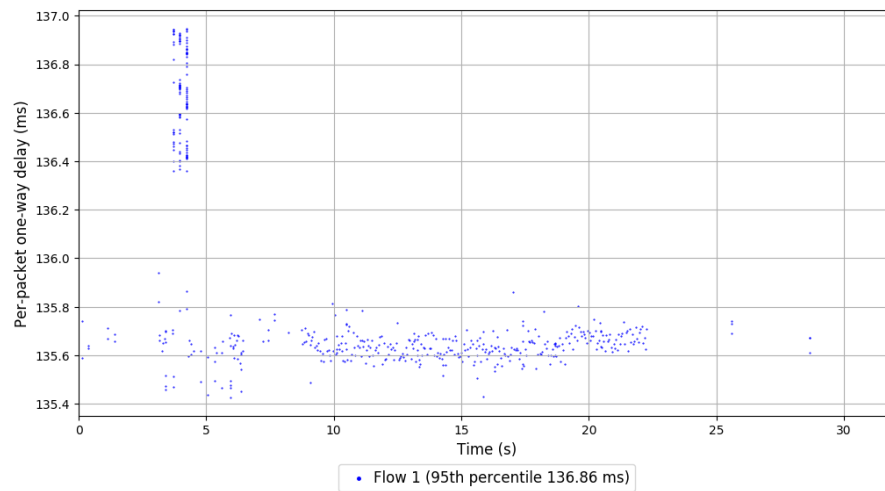
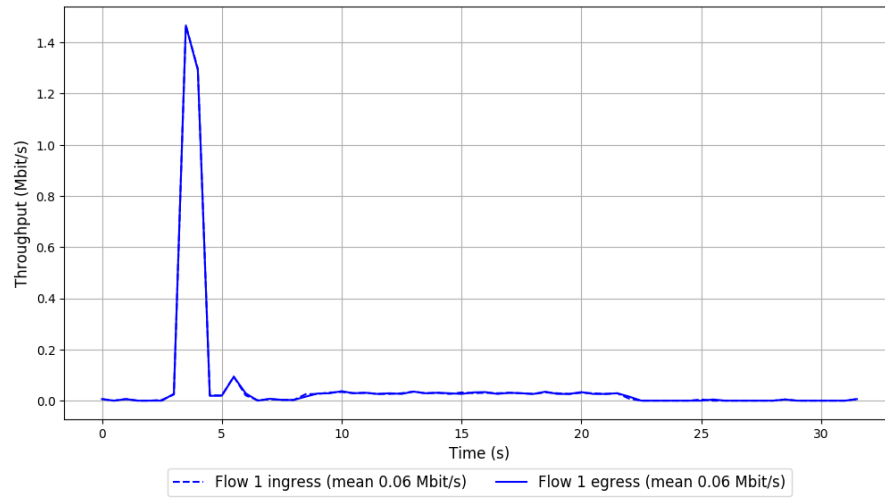
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.864 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-04-10 20:27:36

End at: 2018-04-10 20:28:06

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.510 ms

Loss rate: 0.00%

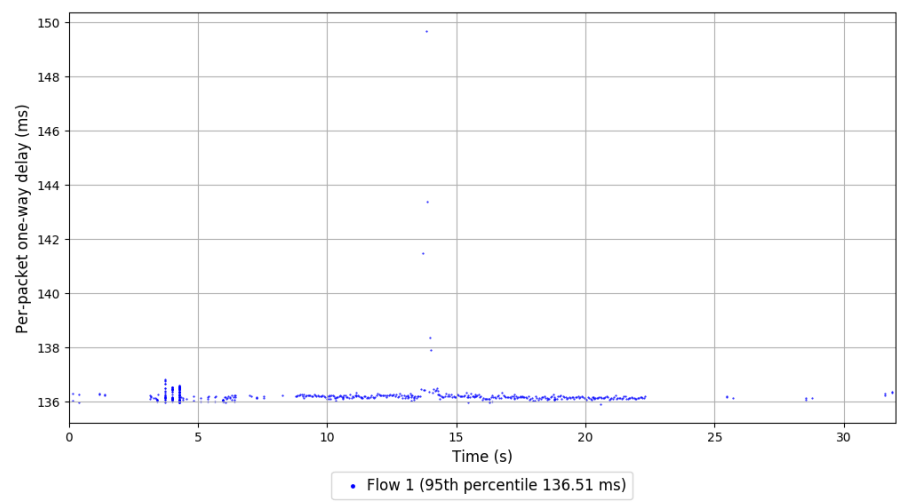
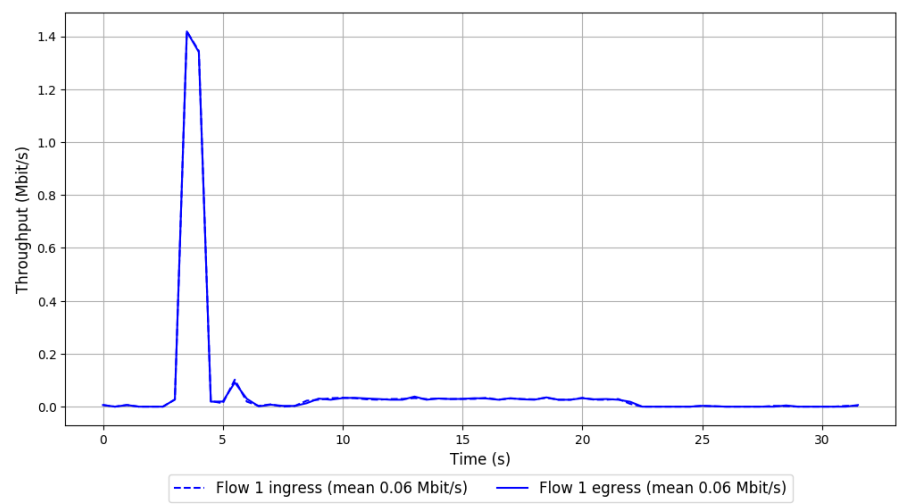
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.510 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-10 20:43:25

End at: 2018-04-10 20:43:55

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.222 ms

Loss rate: 0.00%

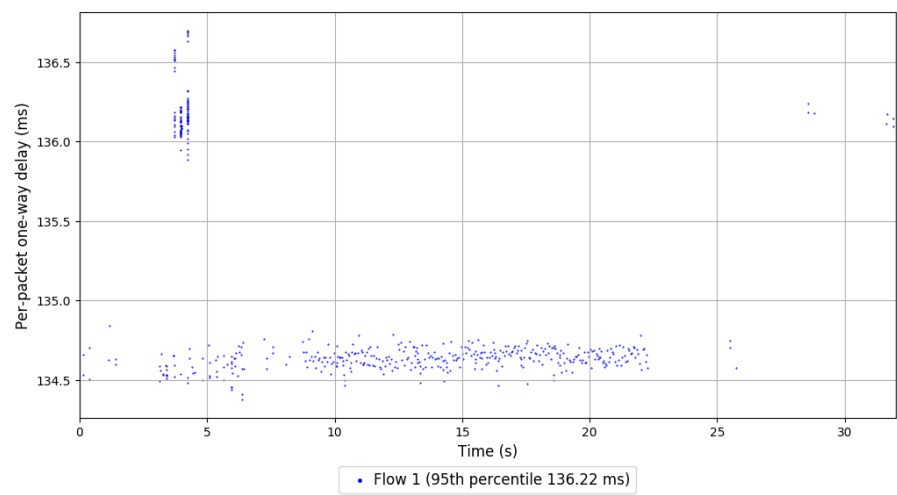
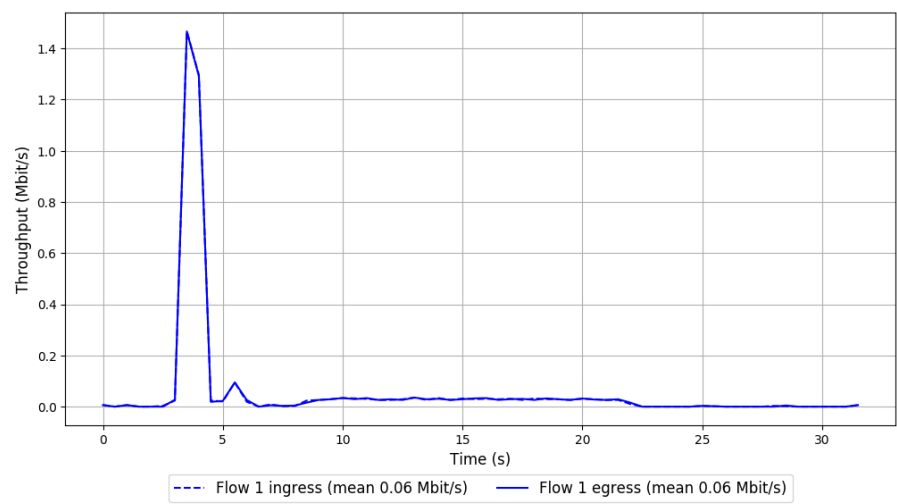
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.222 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-10 20:58:40

End at: 2018-04-10 20:59:10

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.456 ms

Loss rate: 0.00%

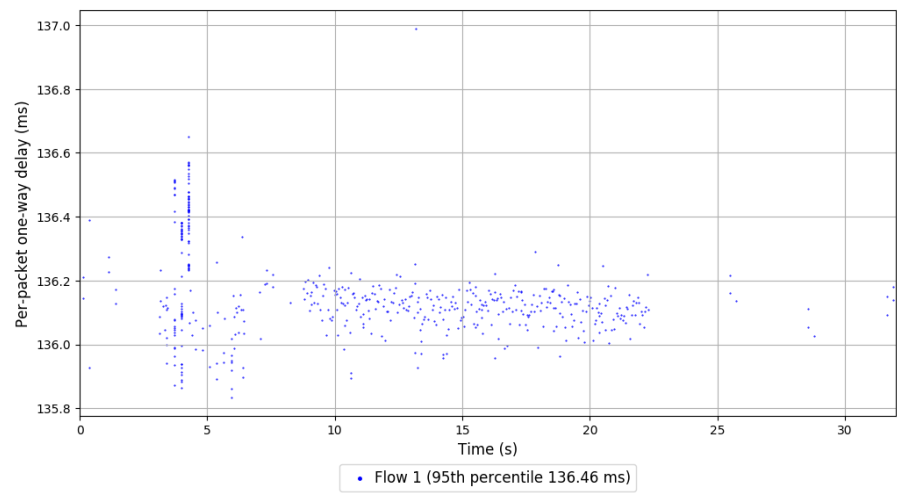
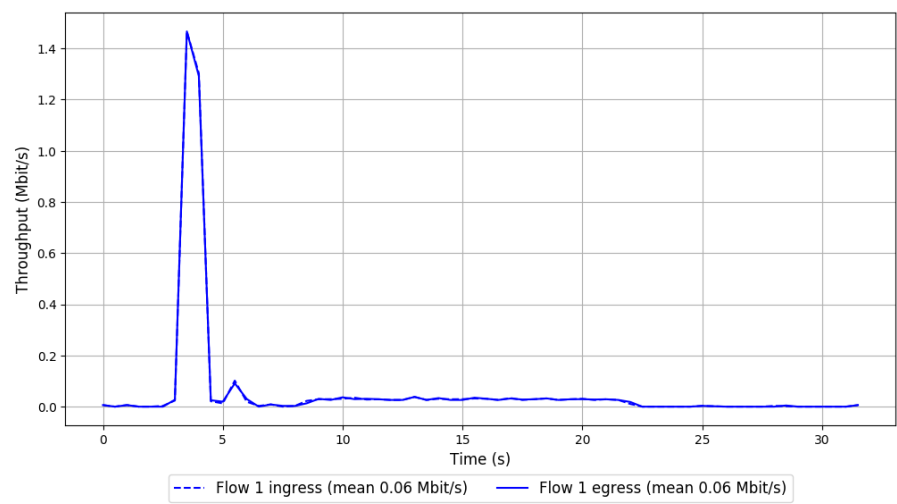
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.456 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-10 21:14:27

End at: 2018-04-10 21:14:57

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.498 ms

Loss rate: 0.00%

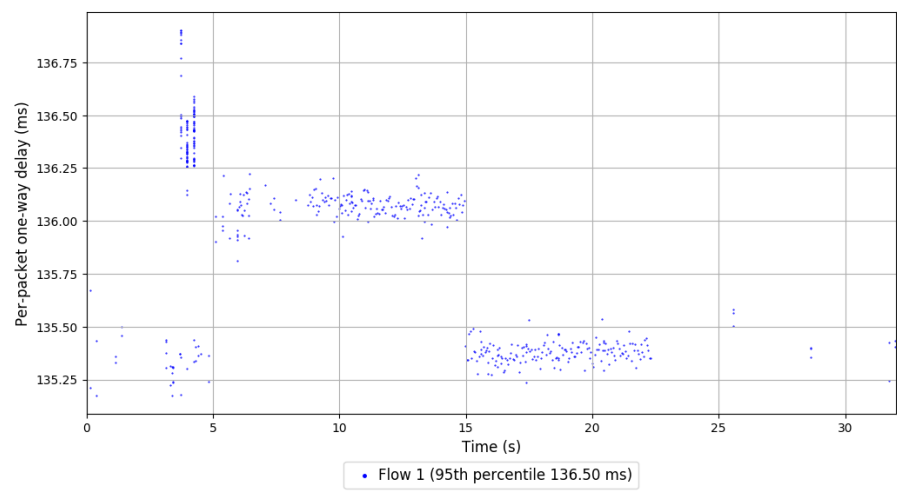
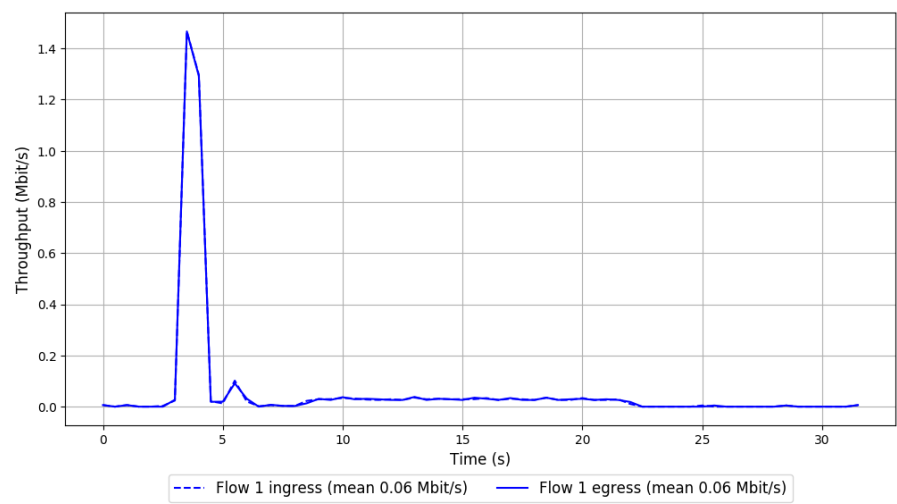
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.498 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-10 21:30:15

End at: 2018-04-10 21:30:45

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.790 ms

Loss rate: 0.00%

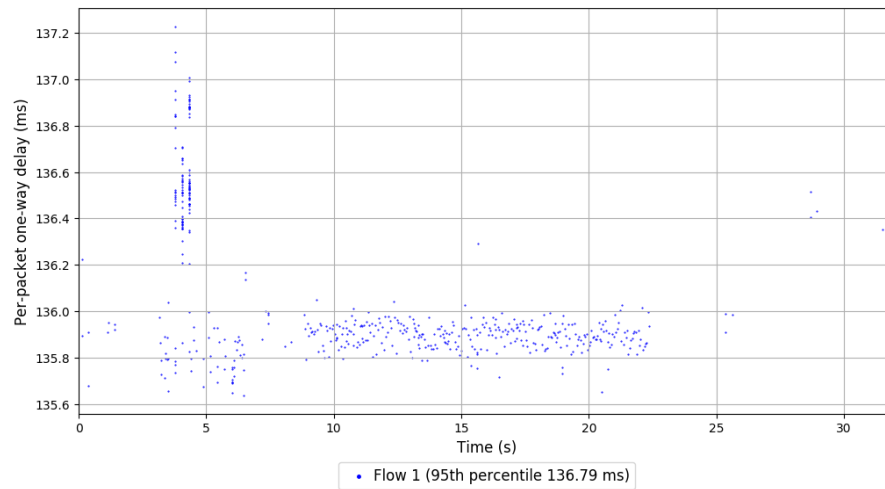
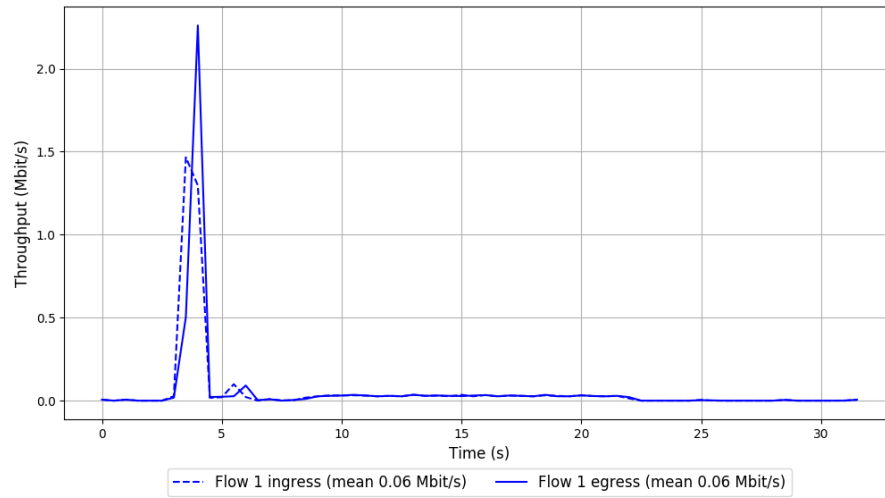
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.790 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-04-10 21:45:55

End at: 2018-04-10 21:46:25

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.736 ms

Loss rate: 0.00%

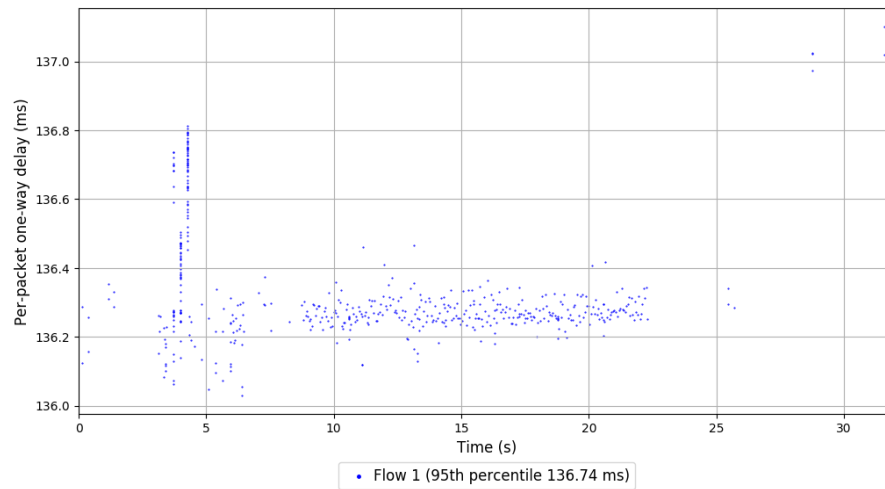
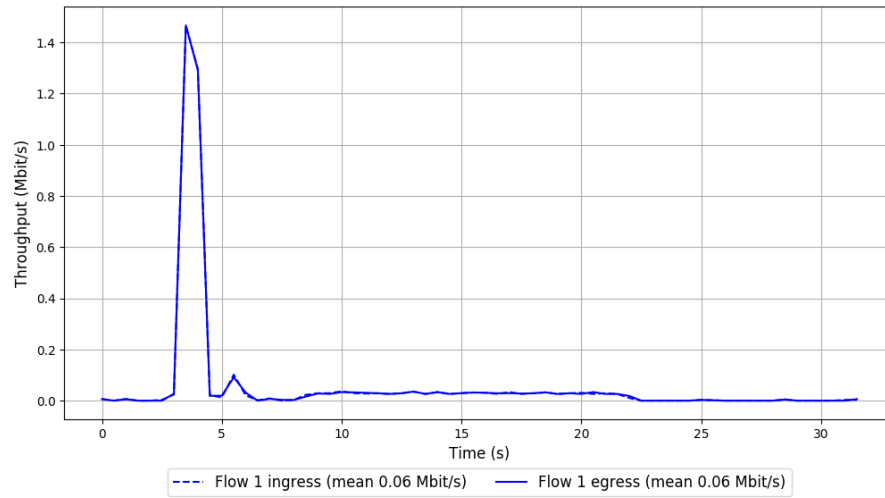
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.736 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link

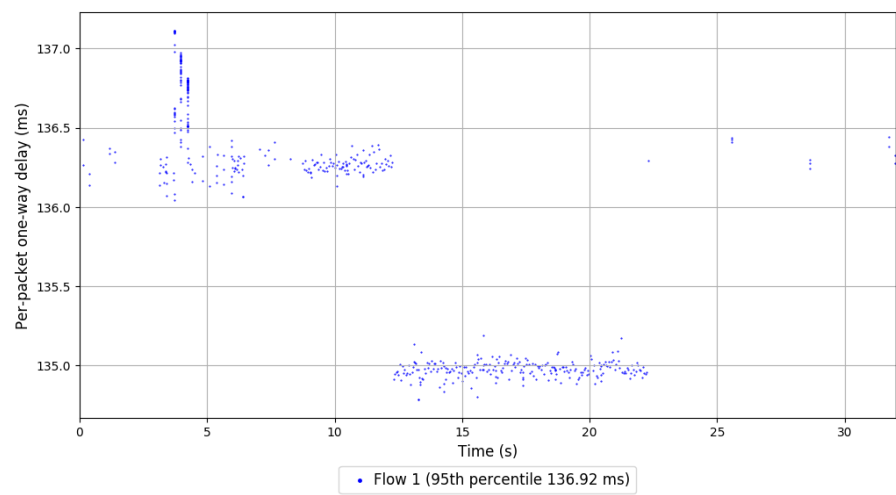
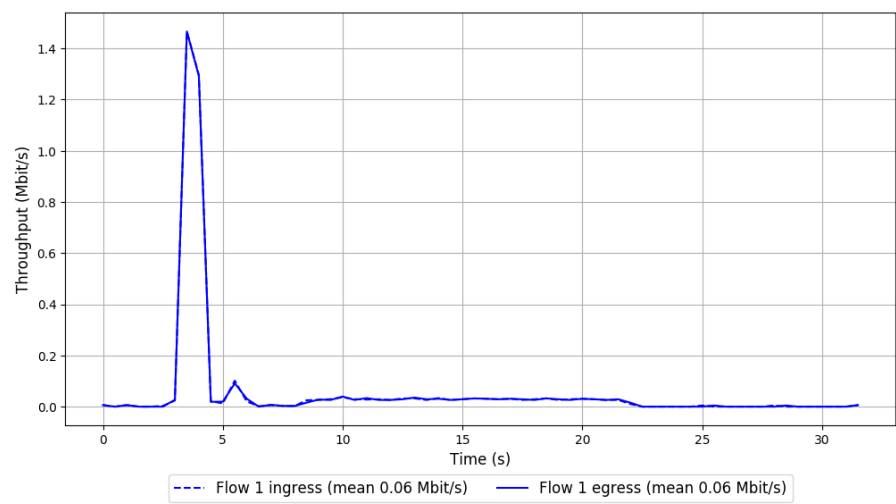


```
Run 10: Statistics of WebRTC media

Start at: 2018-04-10 22:01:00
End at: 2018-04-10 22:01:30

# Below is generated by plot.py at 2018-04-11 01:12:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 136.917 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 136.917 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-04-10 19:40:11

End at: 2018-04-10 19:40:41

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.818 ms

Loss rate: 0.68%

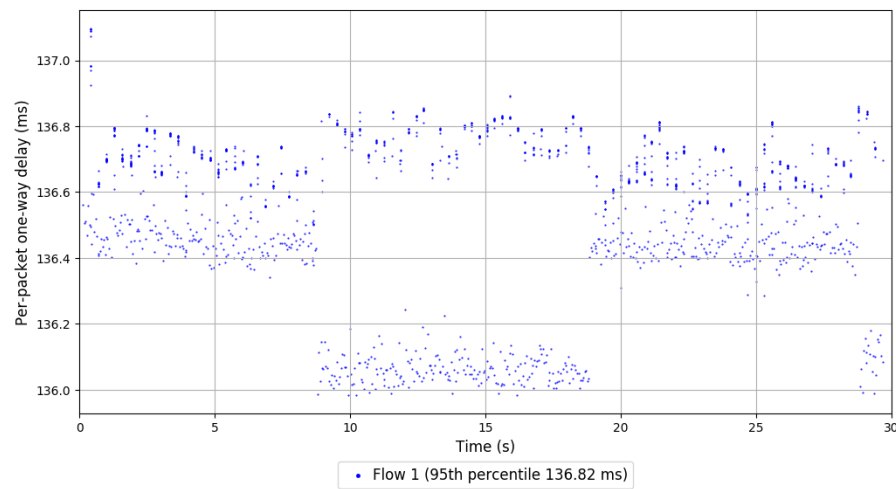
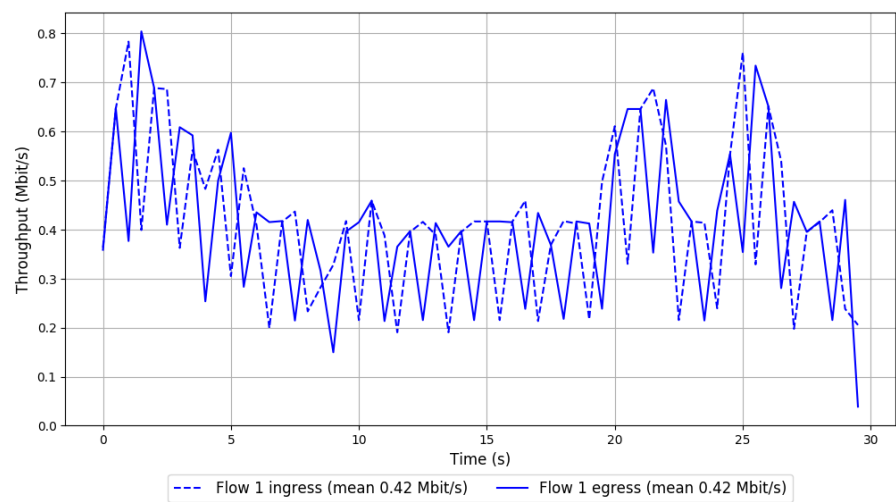
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.818 ms

Loss rate: 0.68%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-04-10 19:55:30

End at: 2018-04-10 19:56:00

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.835 ms

Loss rate: 0.97%

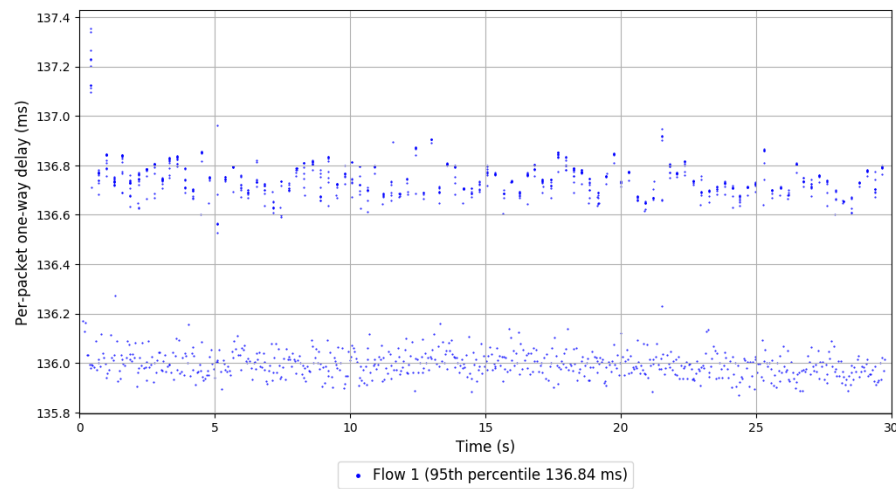
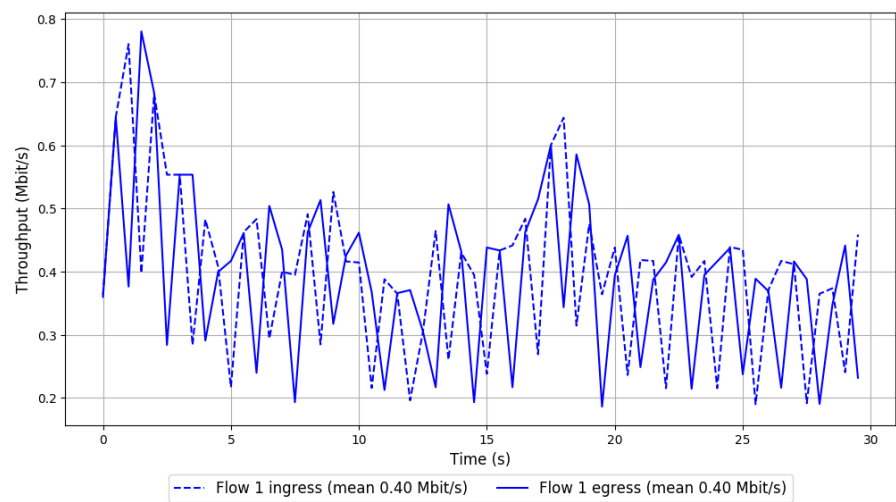
-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.835 ms

Loss rate: 0.97%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-04-10 20:10:55

End at: 2018-04-10 20:11:25

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.777 ms

Loss rate: 0.19%

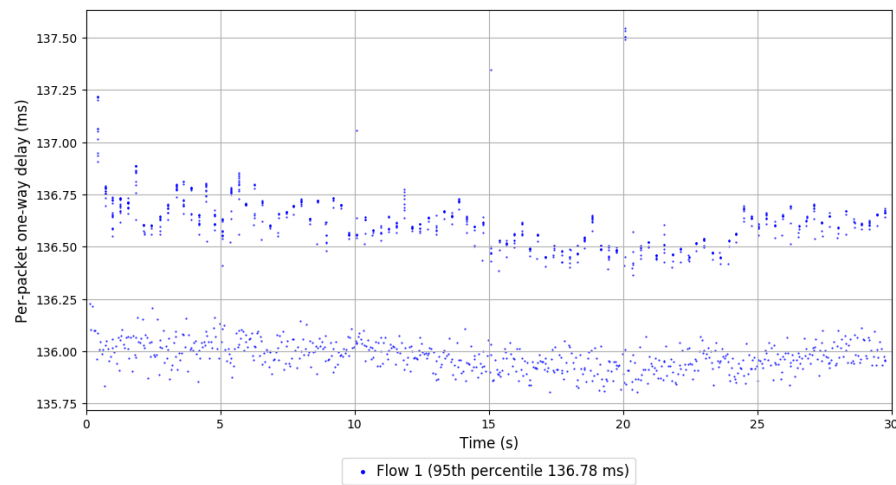
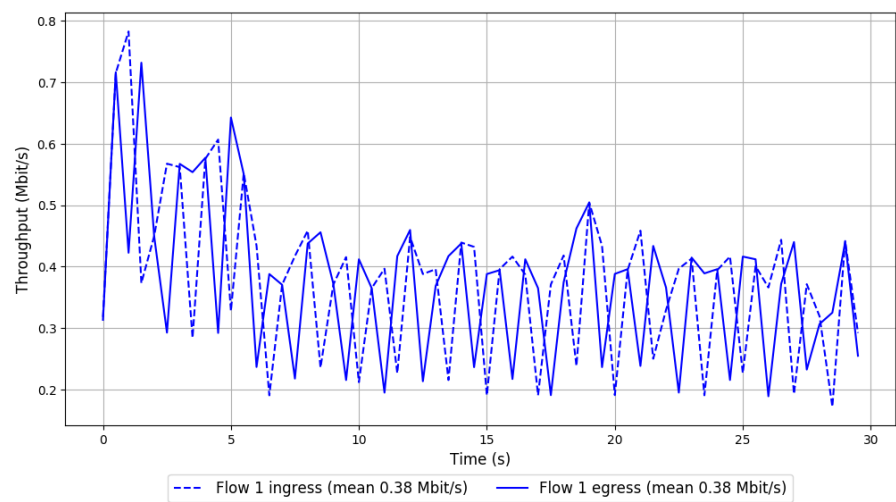
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.777 ms

Loss rate: 0.19%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-04-10 20:26:08

End at: 2018-04-10 20:26:38

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.786 ms

Loss rate: 0.94%

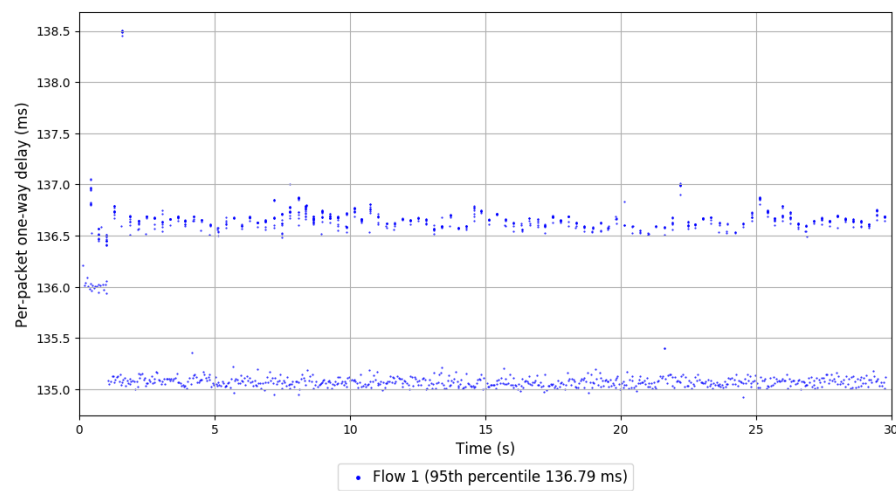
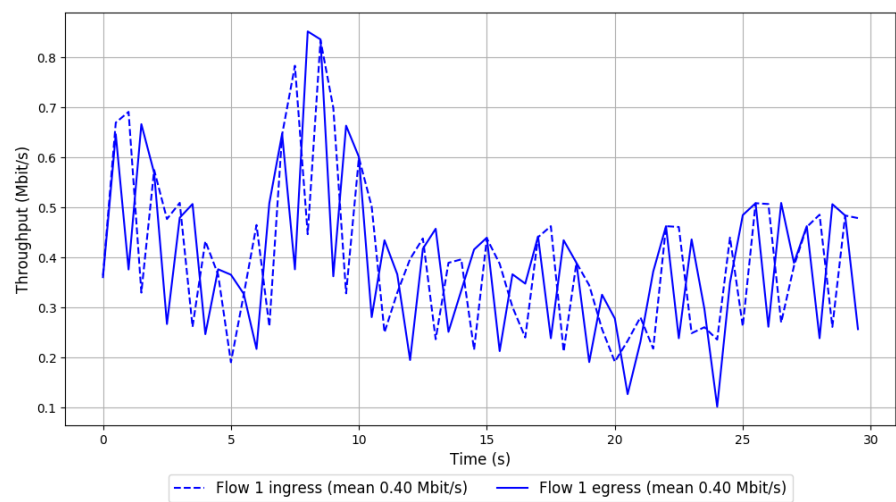
-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.786 ms

Loss rate: 0.94%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-04-10 20:41:31

End at: 2018-04-10 20:42:01

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.205 ms

Loss rate: 1.03%

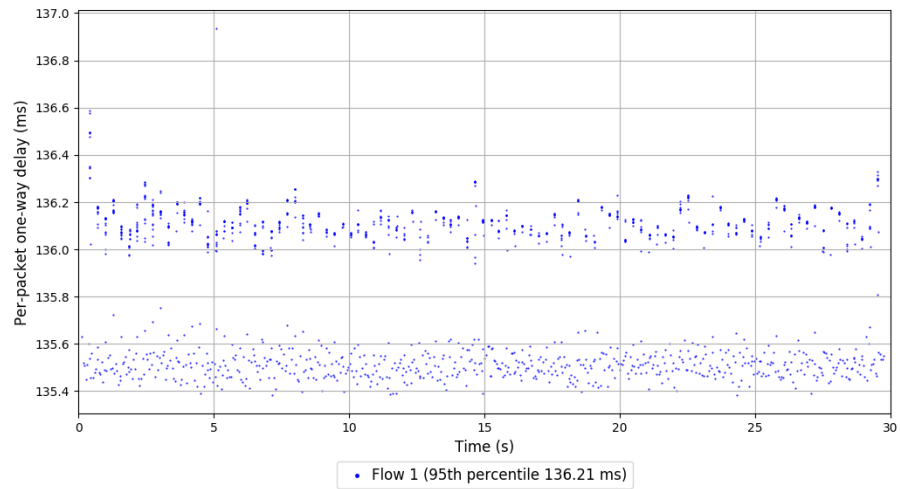
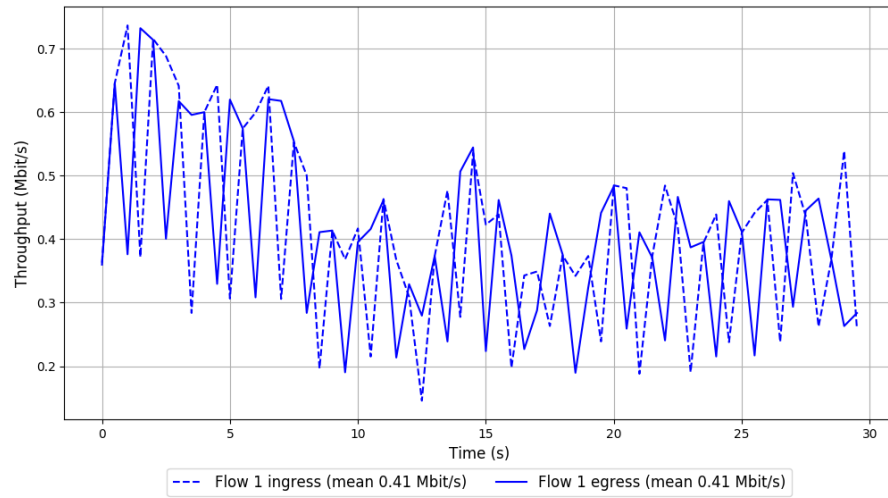
-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.205 ms

Loss rate: 1.03%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-04-10 20:57:11

End at: 2018-04-10 20:57:41

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 136.243 ms

Loss rate: 0.56%

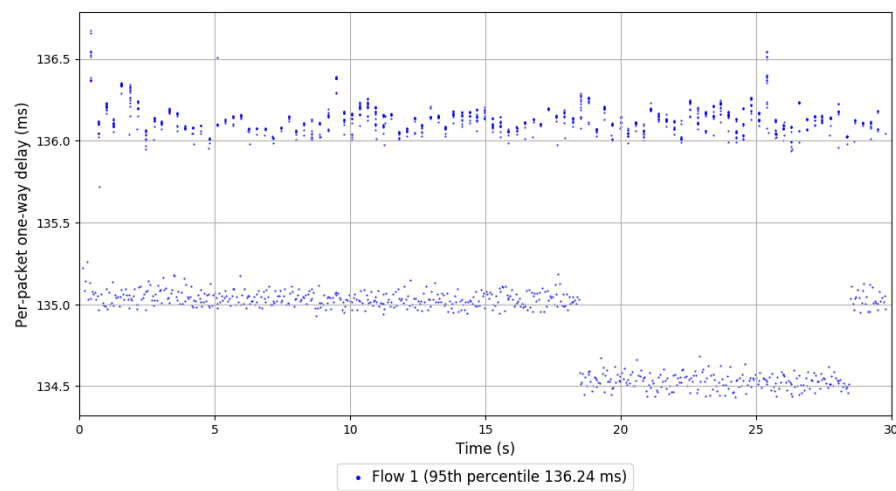
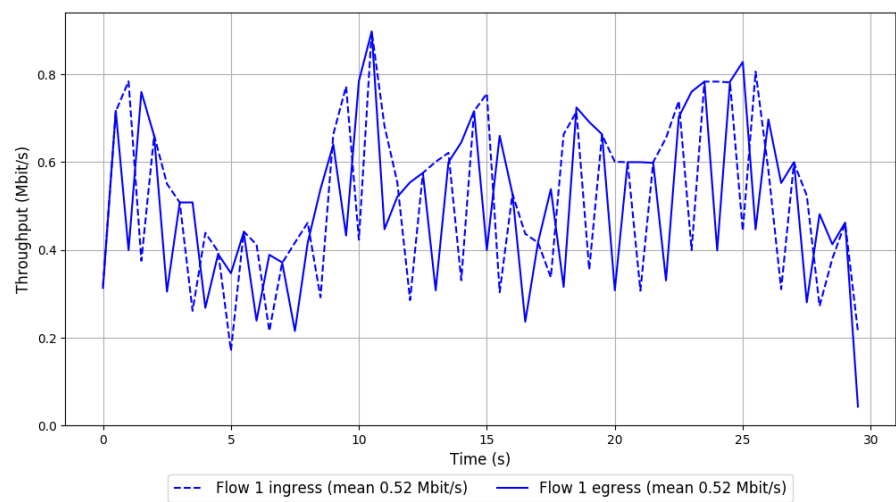
-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 136.243 ms

Loss rate: 0.56%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-04-10 21:12:35

End at: 2018-04-10 21:13:05

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.488 ms

Loss rate: 0.78%

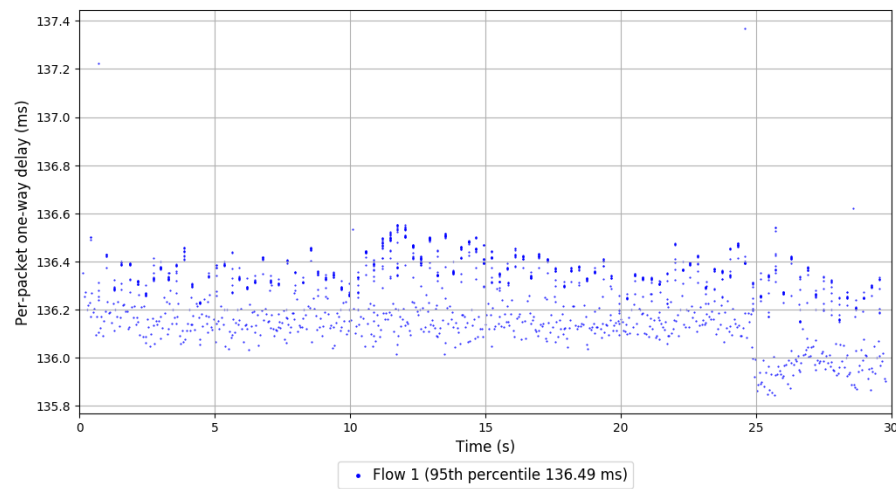
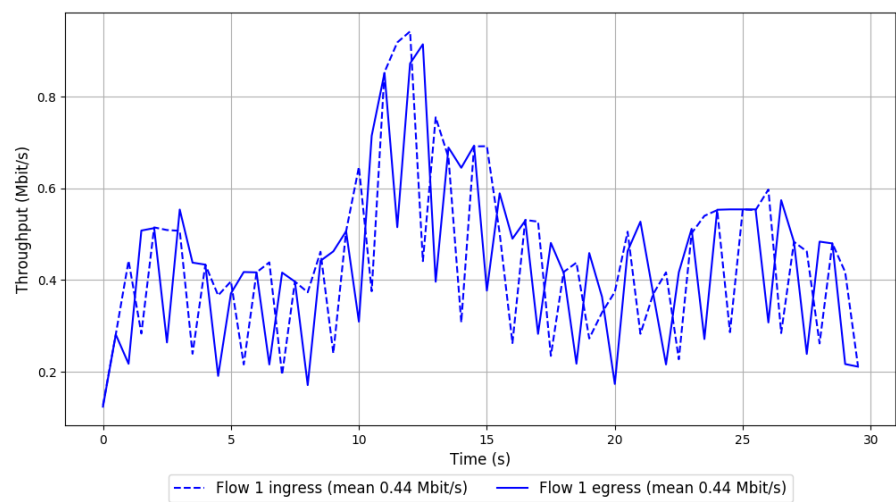
-- Flow 1:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.488 ms

Loss rate: 0.78%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-04-10 21:28:21

End at: 2018-04-10 21:28:51

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.535 ms

Loss rate: 1.36%

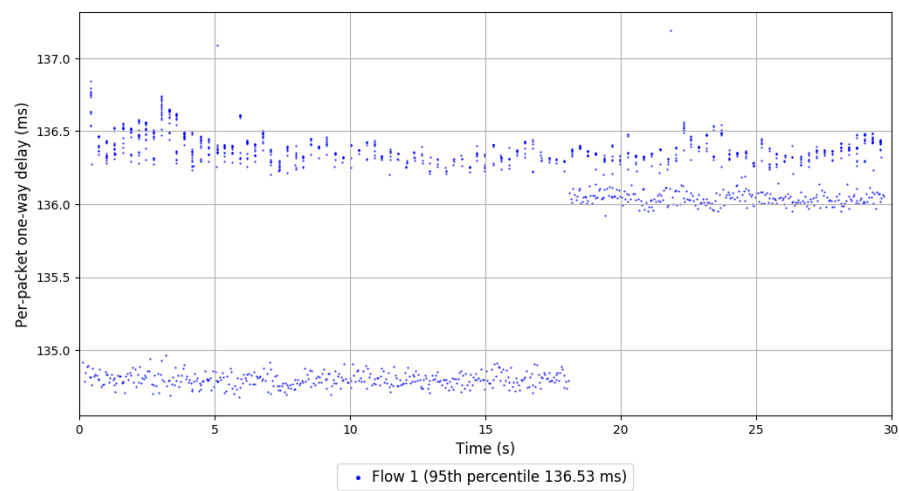
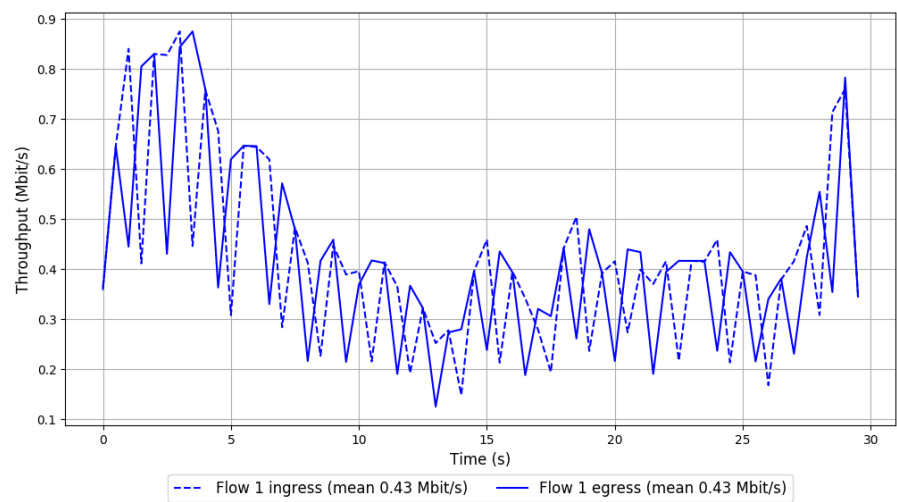
-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.535 ms

Loss rate: 1.36%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-04-10 21:44:02

End at: 2018-04-10 21:44:32

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 136.555 ms

Loss rate: 0.68%

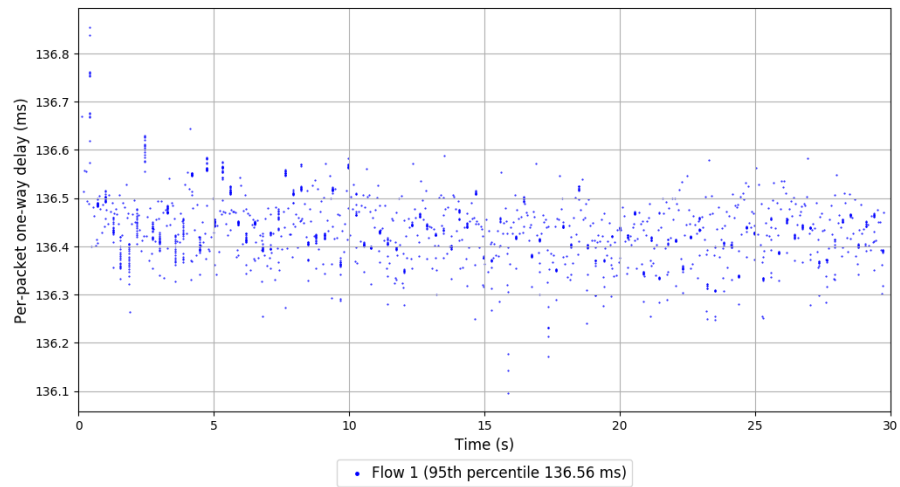
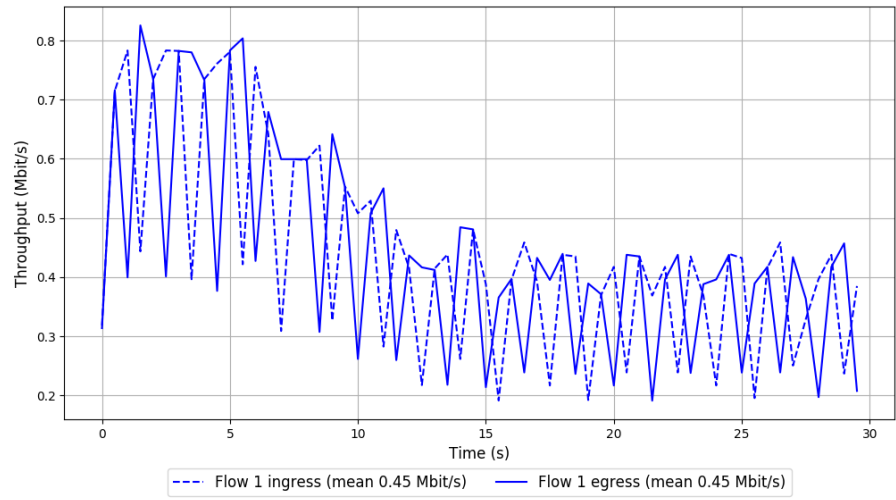
-- Flow 1:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 136.555 ms

Loss rate: 0.68%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-04-10 21:59:32

End at: 2018-04-10 22:00:02

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.889 ms

Loss rate: 0.73%

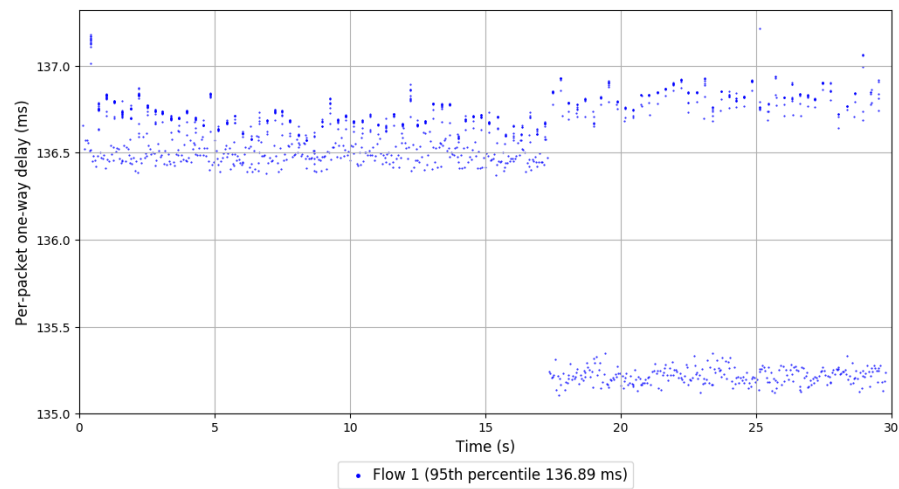
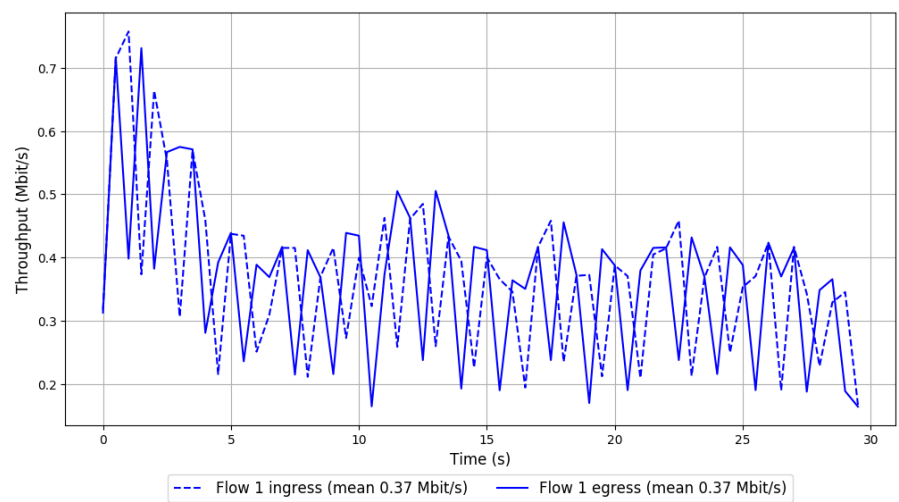
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.889 ms

Loss rate: 0.73%

Run 10: Report of Sprout — Data Link

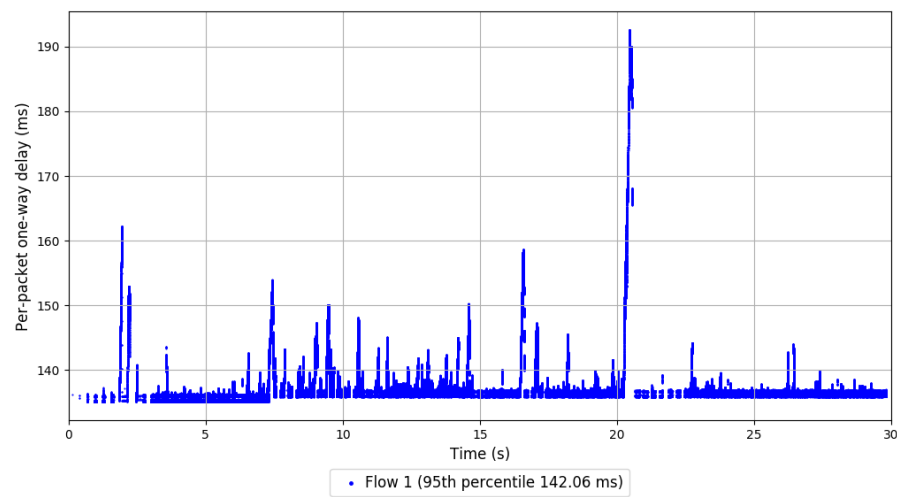
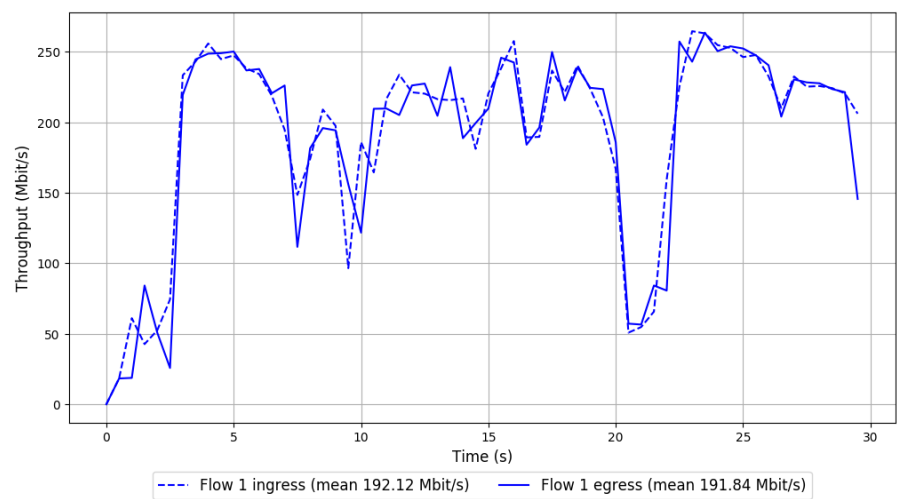


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-10 19:43:02
End at: 2018-04-10 19:43:32

# Below is generated by plot.py at 2018-04-11 01:12:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 191.84 Mbit/s
95th percentile per-packet one-way delay: 142.056 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 191.84 Mbit/s
95th percentile per-packet one-way delay: 142.056 ms
Loss rate: 1.05%
```


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

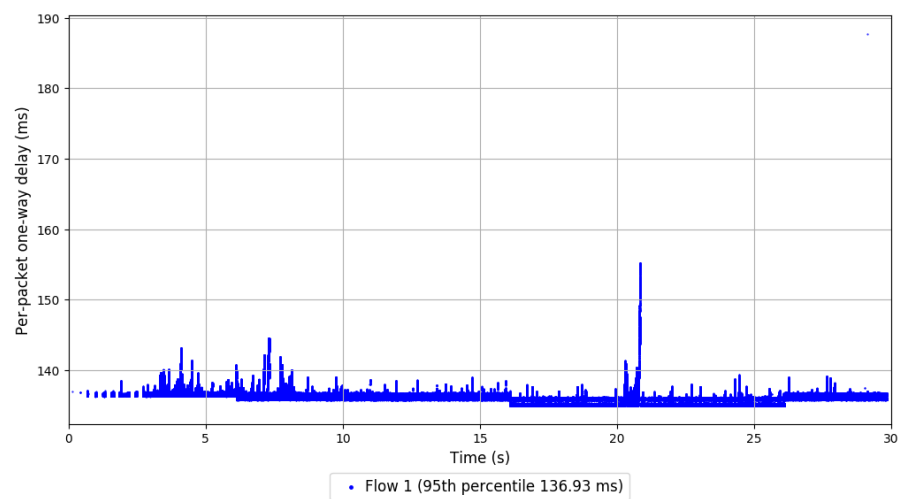
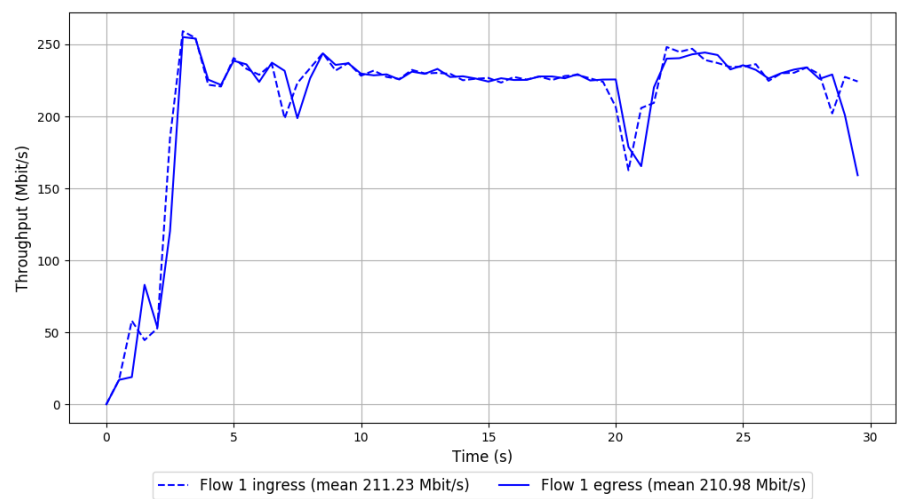


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-04-10 19:58:23
End at: 2018-04-10 19:58:53

# Below is generated by plot.py at 2018-04-11 01:12:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 210.98 Mbit/s
95th percentile per-packet one-way delay: 136.928 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 210.98 Mbit/s
95th percentile per-packet one-way delay: 136.928 ms
Loss rate: 1.02%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-10 20:13:46

End at: 2018-04-10 20:14:16

Below is generated by plot.py at 2018-04-11 01:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.65 Mbit/s

95th percentile per-packet one-way delay: 138.786 ms

Loss rate: 0.84%

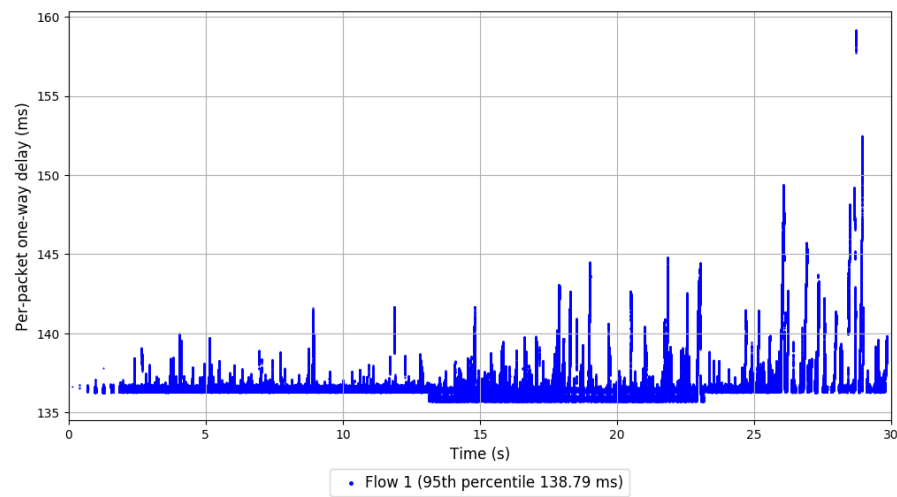
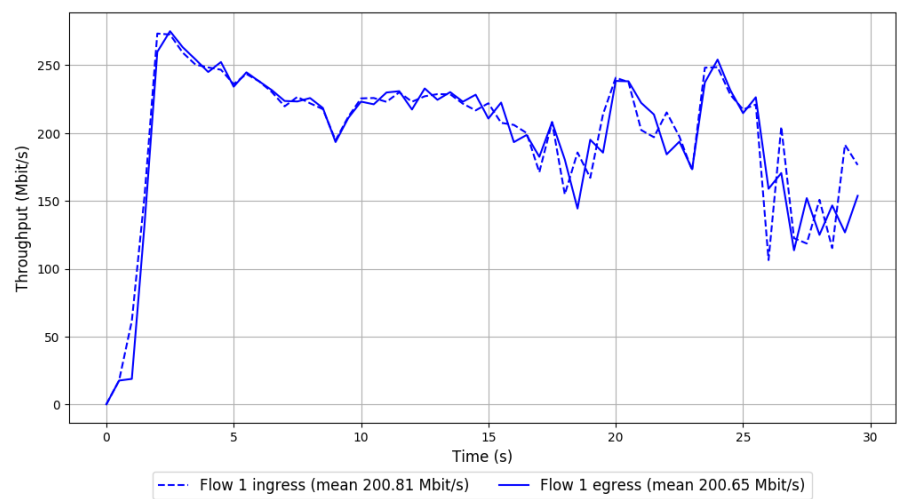
-- Flow 1:

Average throughput: 200.65 Mbit/s

95th percentile per-packet one-way delay: 138.786 ms

Loss rate: 0.84%

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

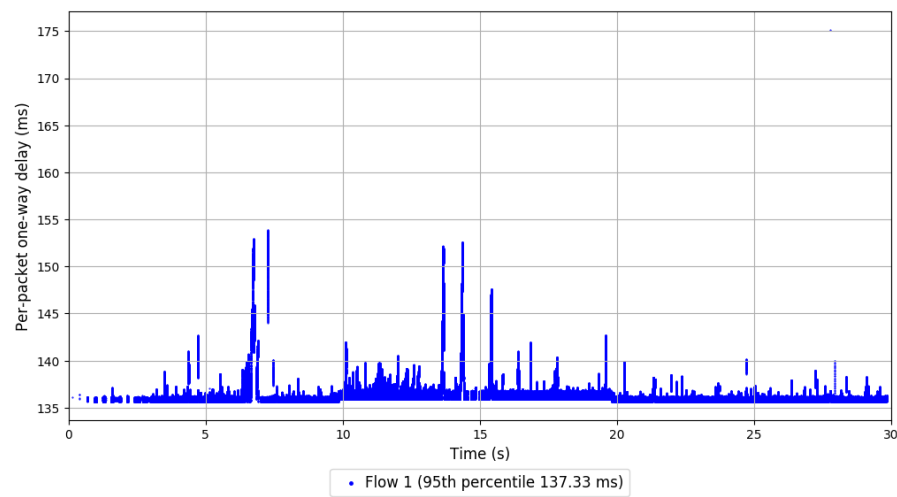
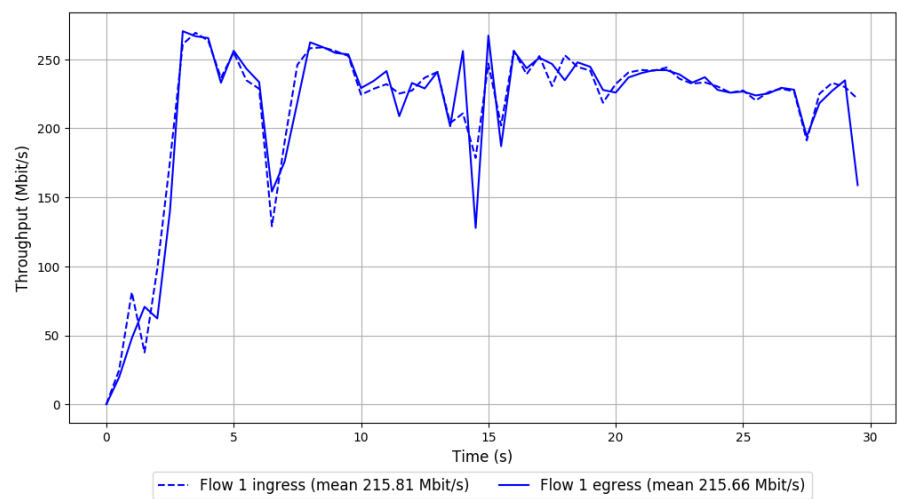


```
Run 4: Statistics of TaoVA-100x

Start at: 2018-04-10 20:29:00
End at: 2018-04-10 20:29:30

# Below is generated by plot.py at 2018-04-11 01:12:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.66 Mbit/s
95th percentile per-packet one-way delay: 137.333 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 215.66 Mbit/s
95th percentile per-packet one-way delay: 137.333 ms
Loss rate: 0.98%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-10 20:44:48

End at: 2018-04-10 20:45:18

Below is generated by plot.py at 2018-04-11 01:12:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.09 Mbit/s

95th percentile per-packet one-way delay: 136.619 ms

Loss rate: 1.03%

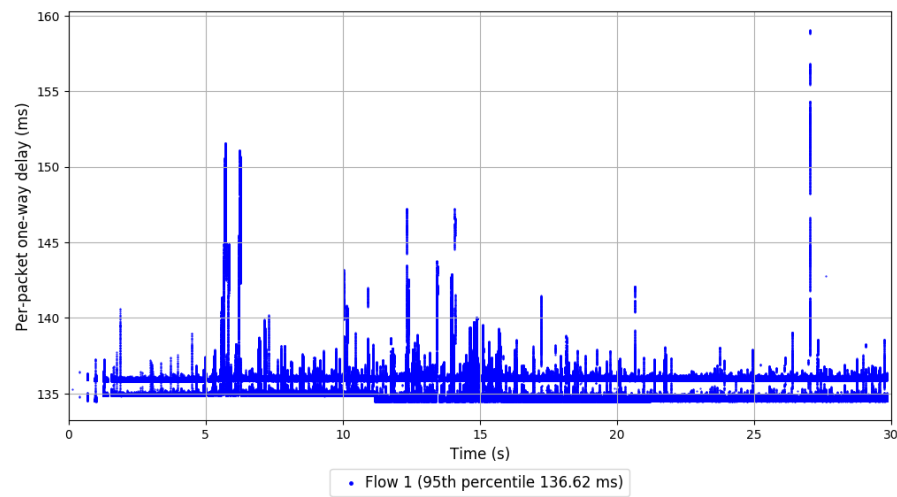
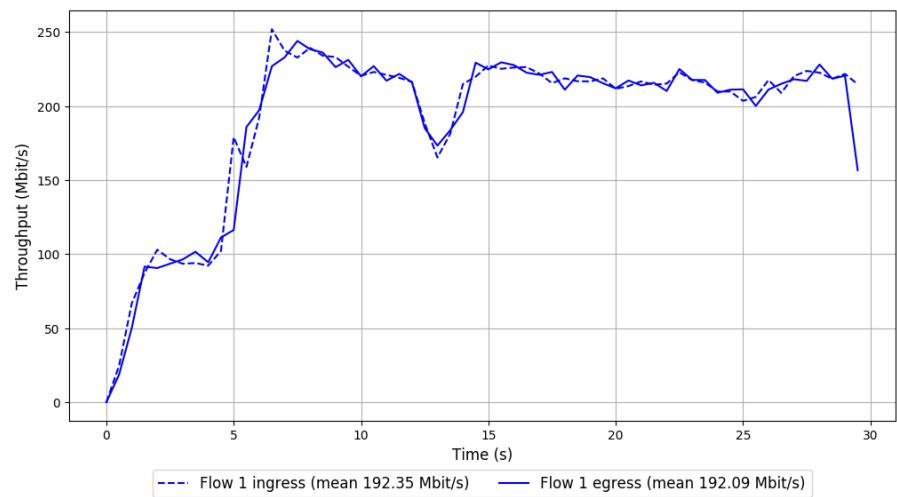
-- Flow 1:

Average throughput: 192.09 Mbit/s

95th percentile per-packet one-way delay: 136.619 ms

Loss rate: 1.03%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-10 21:00:04

End at: 2018-04-10 21:00:34

Below is generated by plot.py at 2018-04-11 01:12:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.81 Mbit/s

95th percentile per-packet one-way delay: 136.757 ms

Loss rate: 1.01%

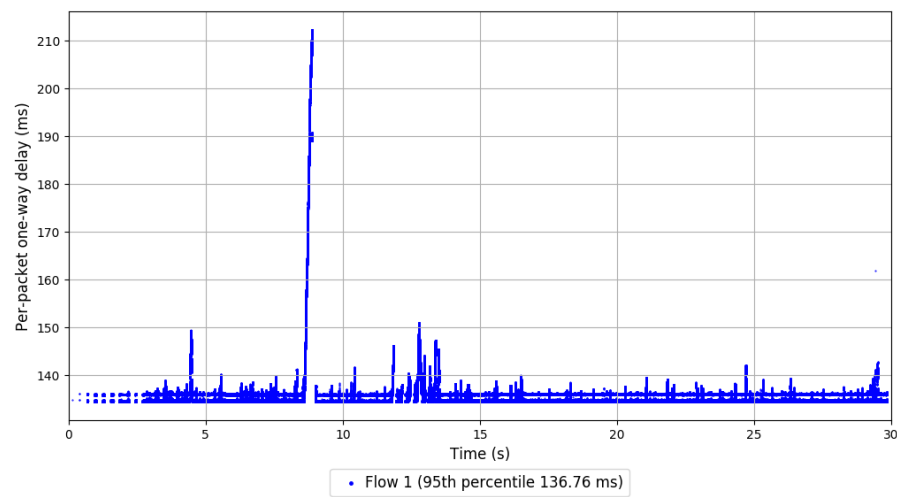
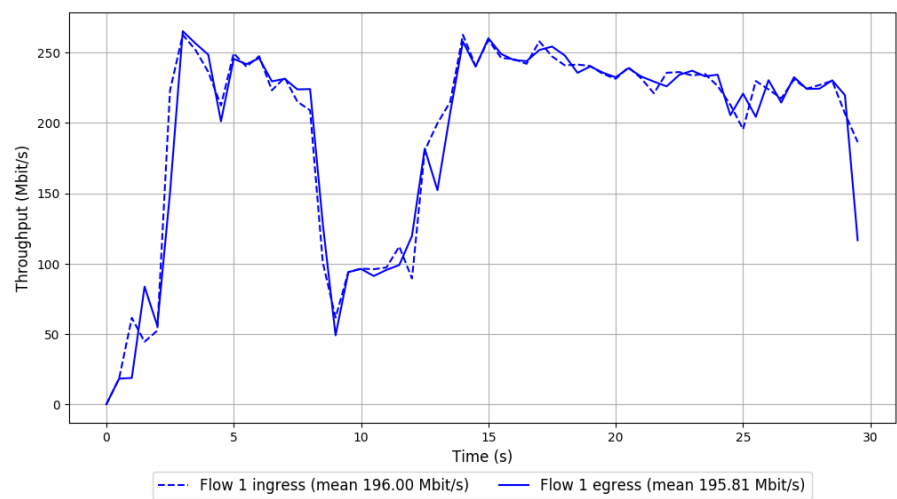
-- Flow 1:

Average throughput: 195.81 Mbit/s

95th percentile per-packet one-way delay: 136.757 ms

Loss rate: 1.01%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-04-10 21:15:51

End at: 2018-04-10 21:16:21

Below is generated by plot.py at 2018-04-11 01:16:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.54 Mbit/s

95th percentile per-packet one-way delay: 137.726 ms

Loss rate: 1.17%

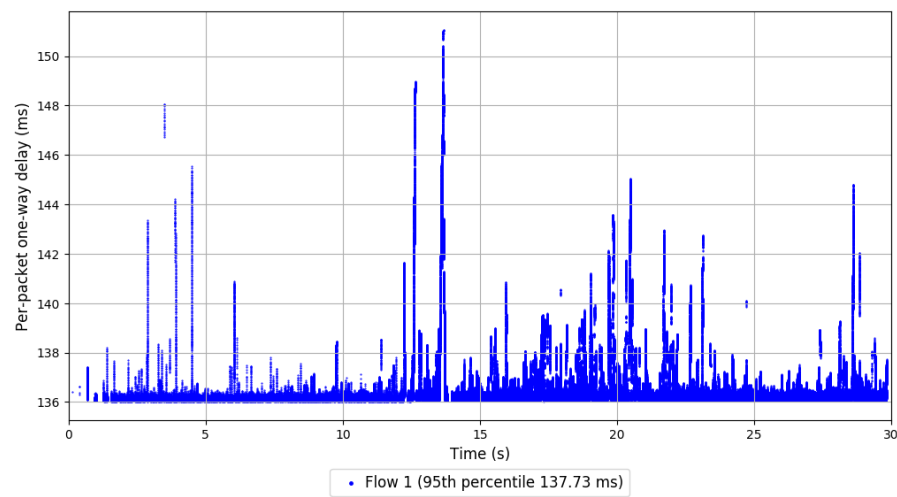
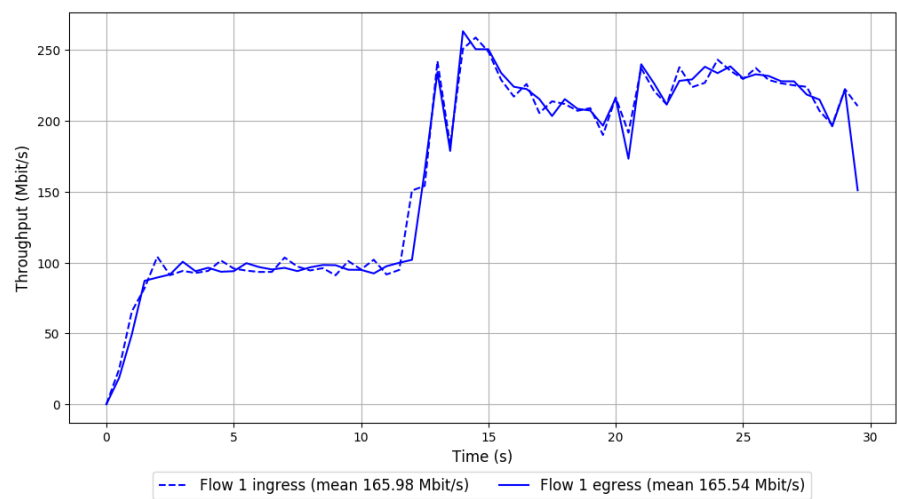
-- Flow 1:

Average throughput: 165.54 Mbit/s

95th percentile per-packet one-way delay: 137.726 ms

Loss rate: 1.17%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-10 21:31:39

End at: 2018-04-10 21:32:09

Below is generated by plot.py at 2018-04-11 01:16:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.34 Mbit/s

95th percentile per-packet one-way delay: 136.273 ms

Loss rate: 0.93%

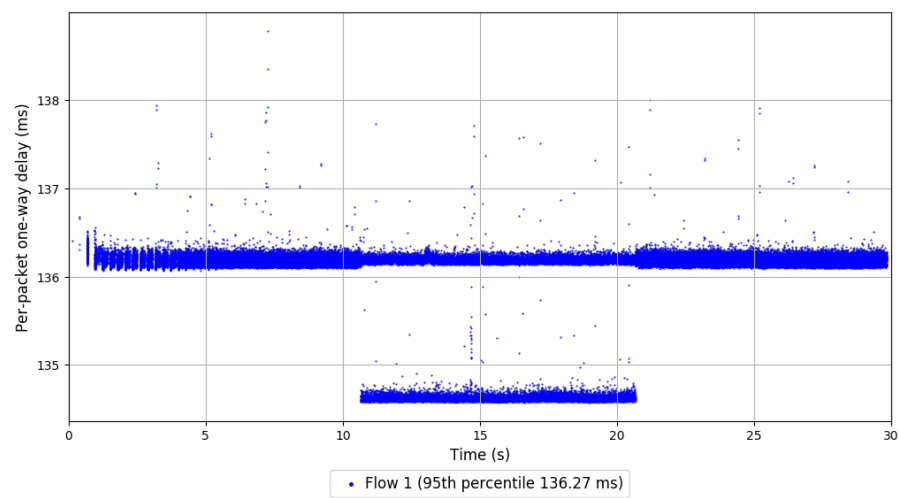
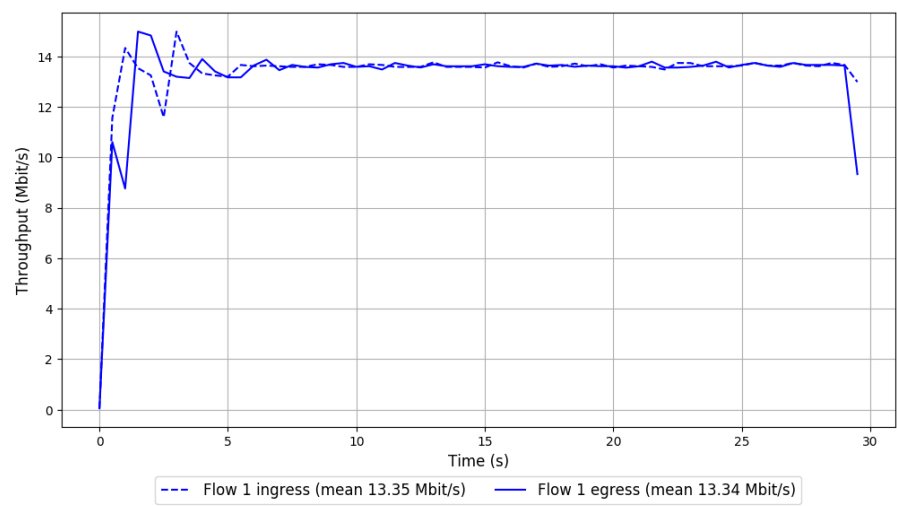
-- Flow 1:

Average throughput: 13.34 Mbit/s

95th percentile per-packet one-way delay: 136.273 ms

Loss rate: 0.93%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-04-10 21:47:18

End at: 2018-04-10 21:47:48

Below is generated by plot.py at 2018-04-11 01:16:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.26 Mbit/s

95th percentile per-packet one-way delay: 136.168 ms

Loss rate: 0.92%

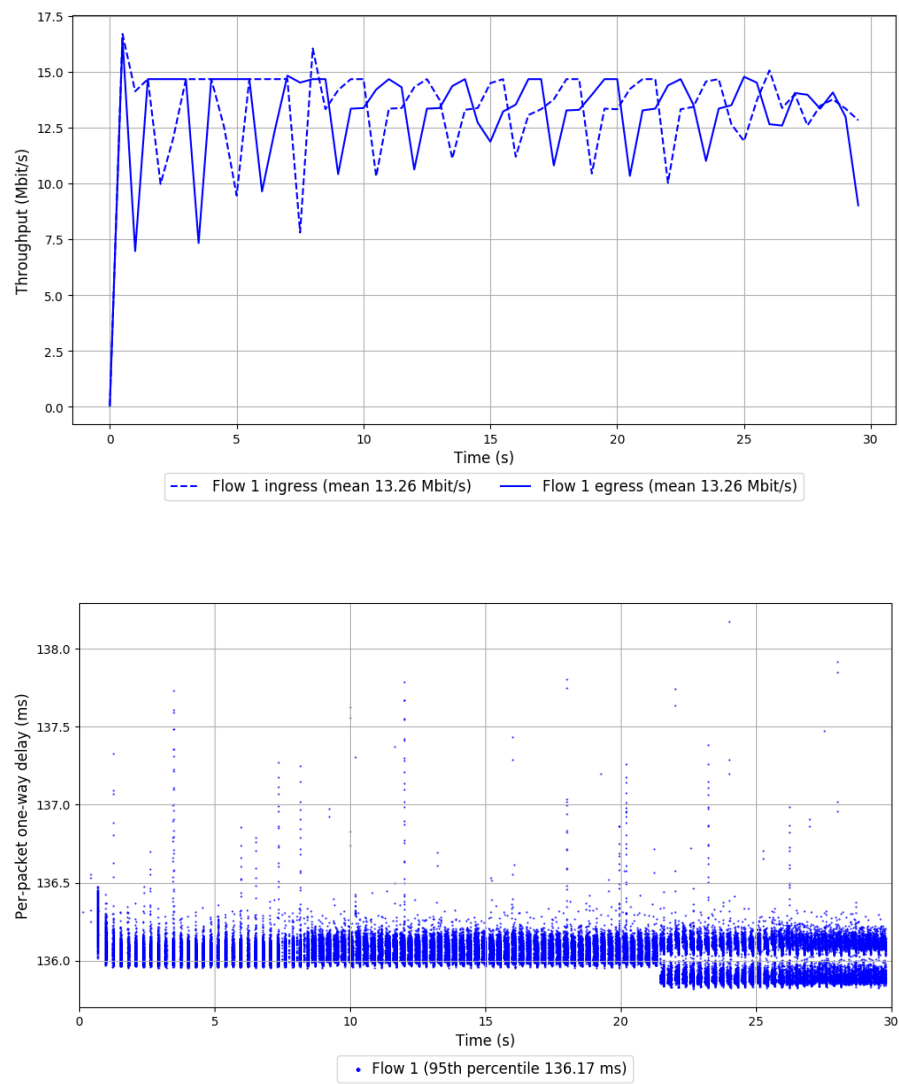
-- Flow 1:

Average throughput: 13.26 Mbit/s

95th percentile per-packet one-way delay: 136.168 ms

Loss rate: 0.92%

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

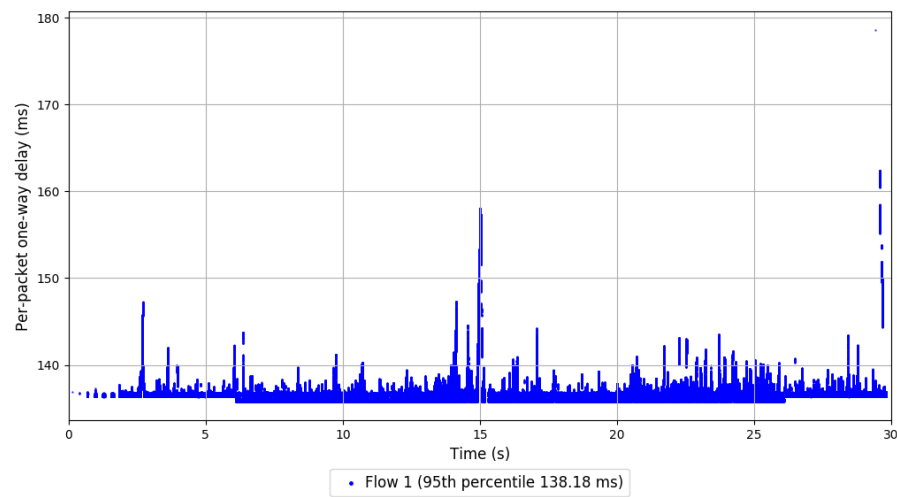
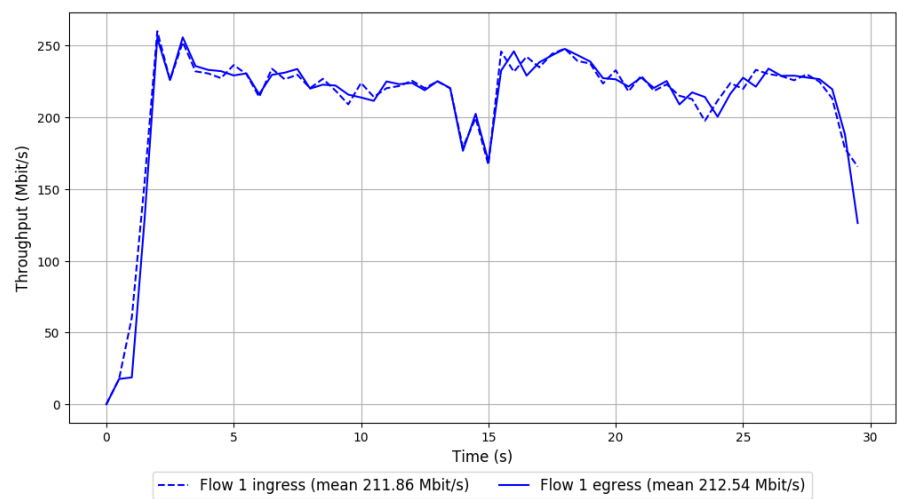


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-04-10 22:02:23
End at: 2018-04-10 22:02:53

# Below is generated by plot.py at 2018-04-11 01:19:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 212.54 Mbit/s
95th percentile per-packet one-way delay: 138.184 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 212.54 Mbit/s
95th percentile per-packet one-way delay: 138.184 ms
Loss rate: 0.65%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-10 19:37:11

End at: 2018-04-10 19:37:41

Below is generated by plot.py at 2018-04-11 01:19:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.87 Mbit/s

95th percentile per-packet one-way delay: 145.804 ms

Loss rate: 0.99%

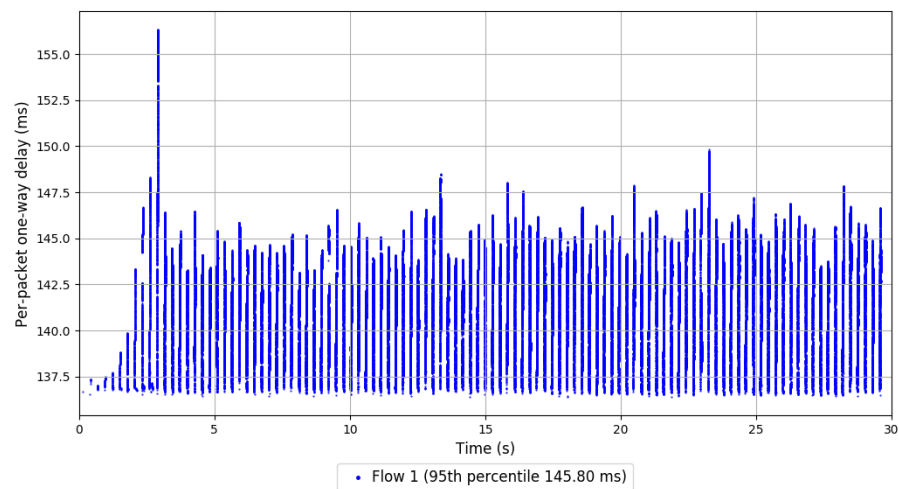
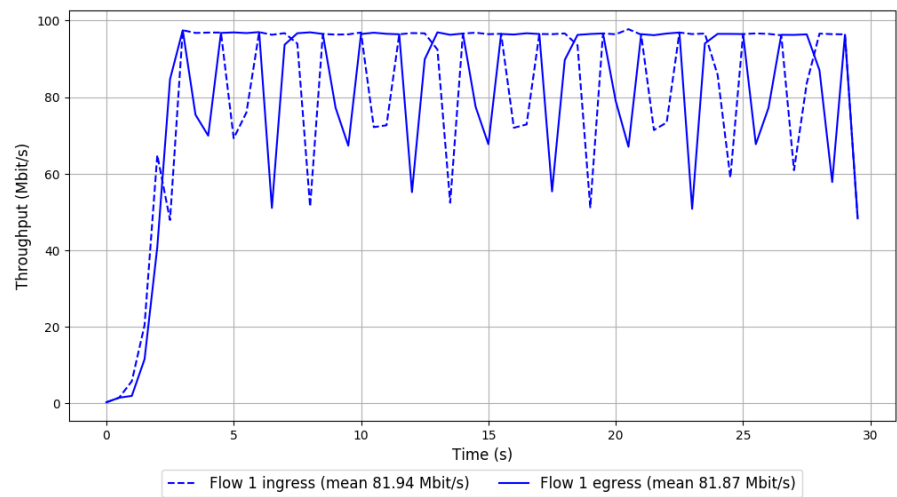
-- Flow 1:

Average throughput: 81.87 Mbit/s

95th percentile per-packet one-way delay: 145.804 ms

Loss rate: 0.99%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-10 19:52:27

End at: 2018-04-10 19:52:57

Below is generated by plot.py at 2018-04-11 01:19:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.96 Mbit/s

95th percentile per-packet one-way delay: 144.344 ms

Loss rate: 1.08%

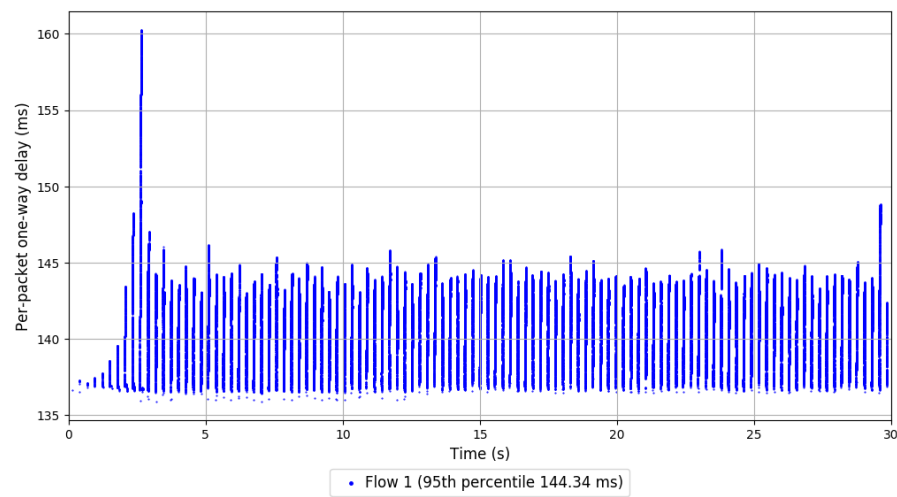
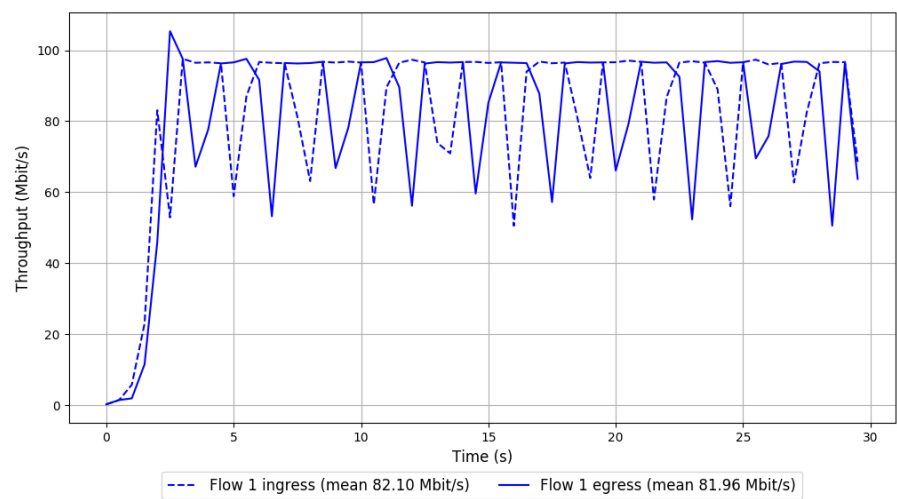
-- Flow 1:

Average throughput: 81.96 Mbit/s

95th percentile per-packet one-way delay: 144.344 ms

Loss rate: 1.08%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-10 20:07:53

End at: 2018-04-10 20:08:23

Below is generated by plot.py at 2018-04-11 01:19:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.21 Mbit/s

95th percentile per-packet one-way delay: 145.475 ms

Loss rate: 0.59%

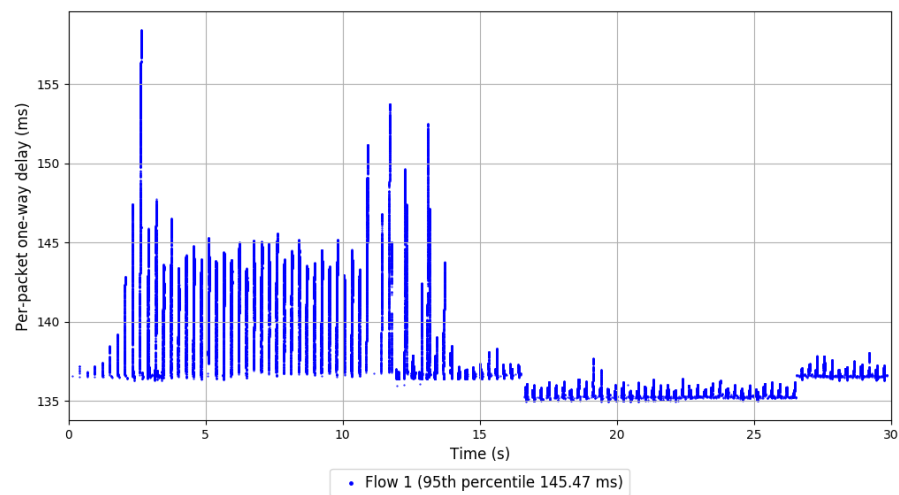
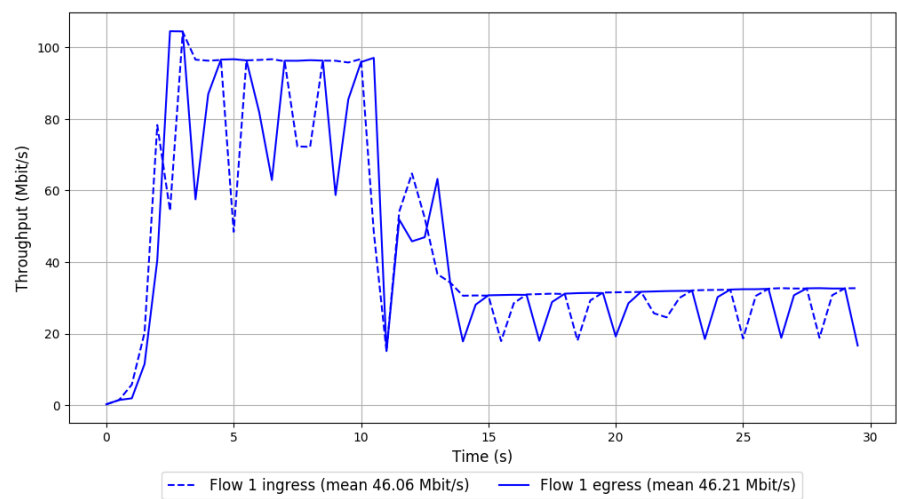
-- Flow 1:

Average throughput: 46.21 Mbit/s

95th percentile per-packet one-way delay: 145.475 ms

Loss rate: 0.59%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-04-10 20:23:05

End at: 2018-04-10 20:23:35

Below is generated by plot.py at 2018-04-11 01:19:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.53 Mbit/s

95th percentile per-packet one-way delay: 144.836 ms

Loss rate: 0.98%

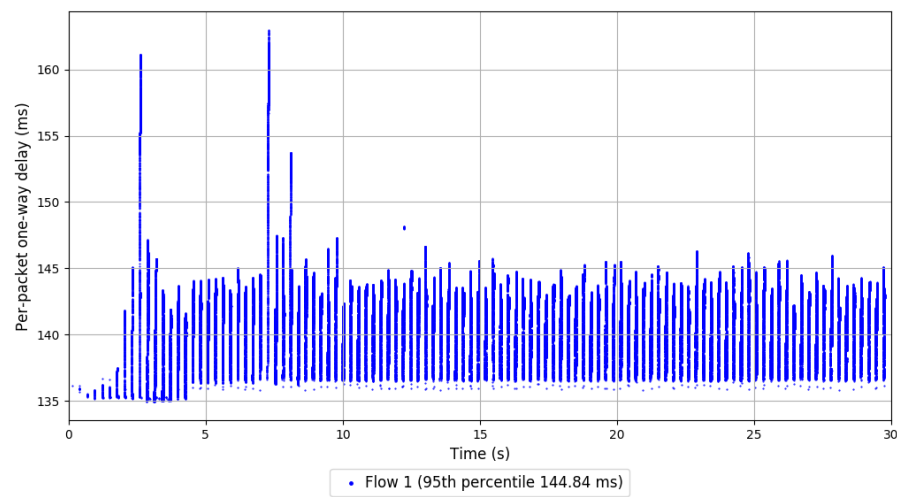
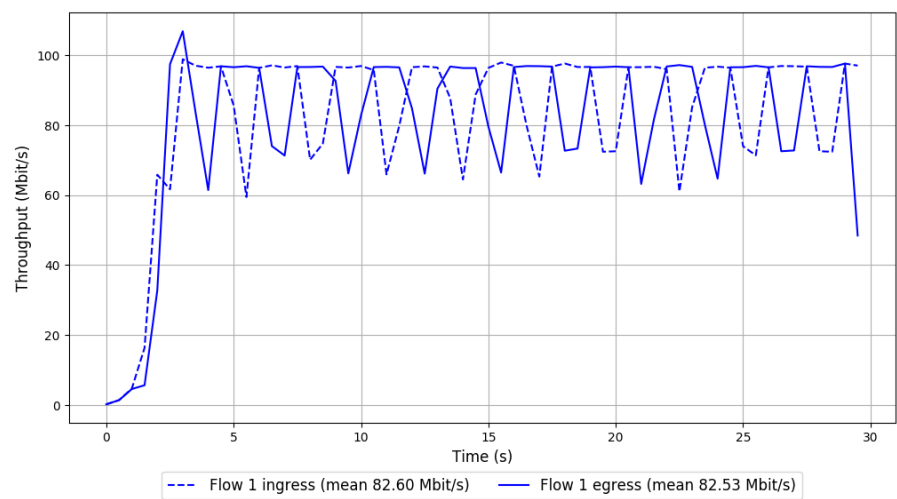
-- Flow 1:

Average throughput: 82.53 Mbit/s

95th percentile per-packet one-way delay: 144.836 ms

Loss rate: 0.98%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-10 20:38:30

End at: 2018-04-10 20:39:00

Below is generated by plot.py at 2018-04-11 01:19:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.29 Mbit/s

95th percentile per-packet one-way delay: 137.113 ms

Loss rate: 1.01%

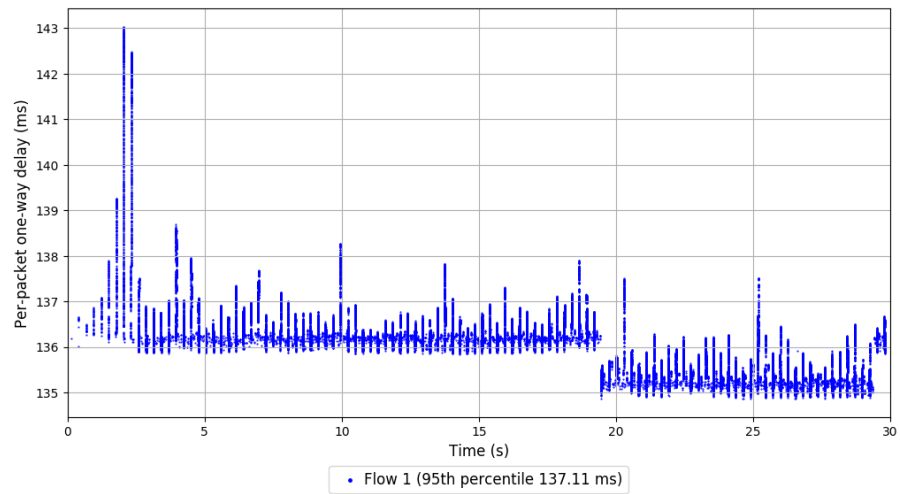
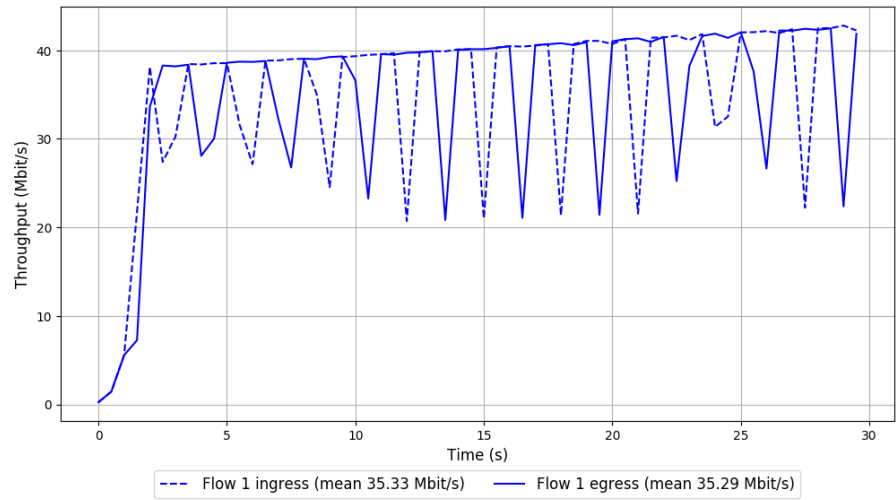
-- Flow 1:

Average throughput: 35.29 Mbit/s

95th percentile per-packet one-way delay: 137.113 ms

Loss rate: 1.01%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-04-10 20:54:07

End at: 2018-04-10 20:54:37

Below is generated by plot.py at 2018-04-11 01:19:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.49 Mbit/s

95th percentile per-packet one-way delay: 145.290 ms

Loss rate: 0.98%

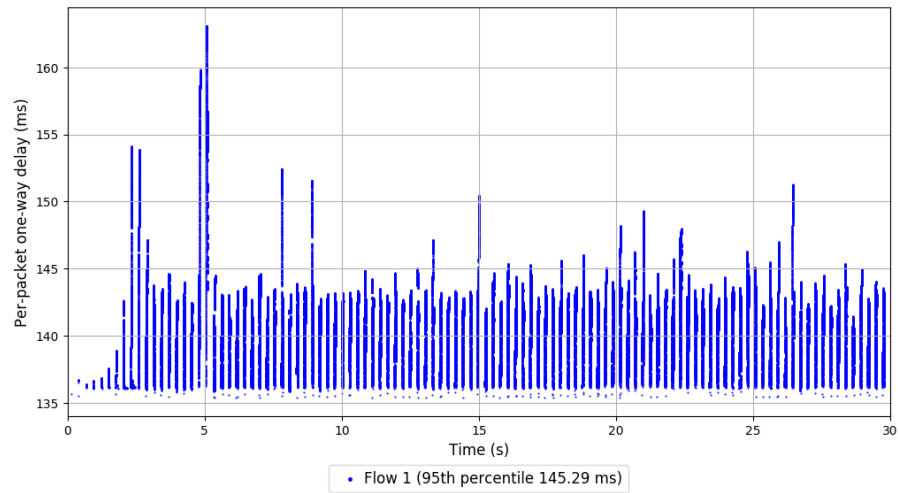
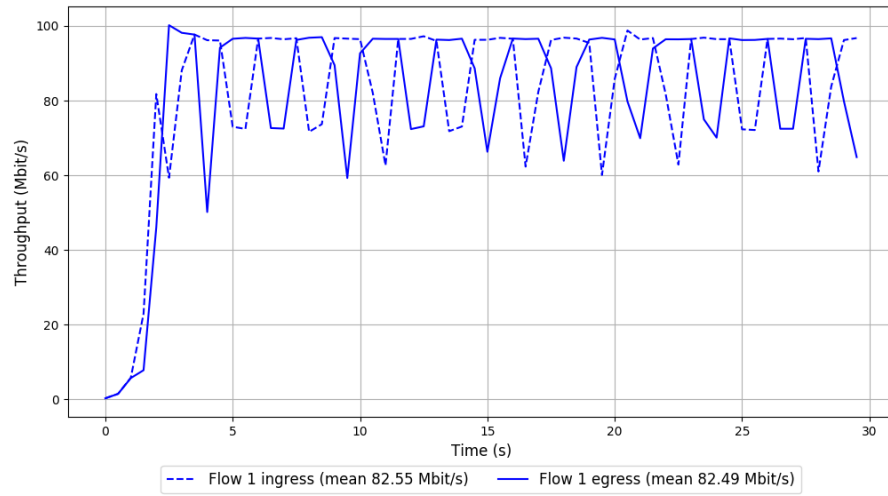
-- Flow 1:

Average throughput: 82.49 Mbit/s

95th percentile per-packet one-way delay: 145.290 ms

Loss rate: 0.98%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-04-10 21:09:31

End at: 2018-04-10 21:10:01

Below is generated by plot.py at 2018-04-11 01:19:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.59 Mbit/s

95th percentile per-packet one-way delay: 146.795 ms

Loss rate: 0.99%

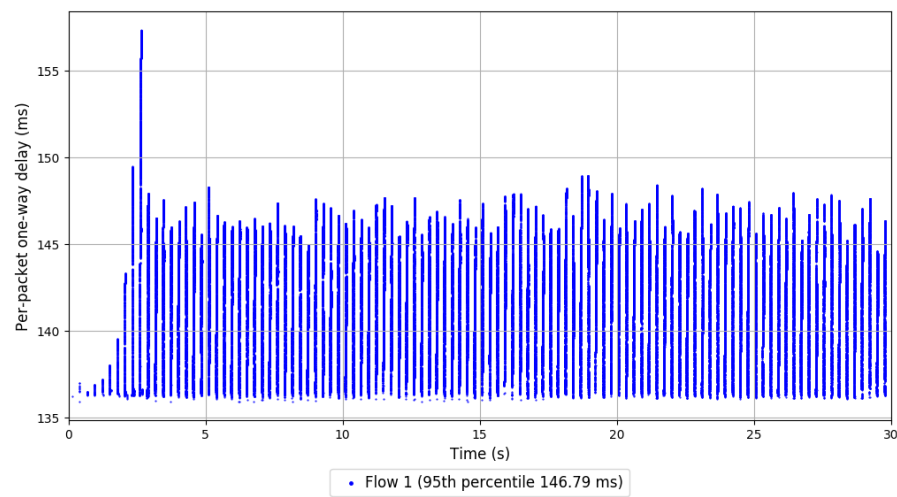
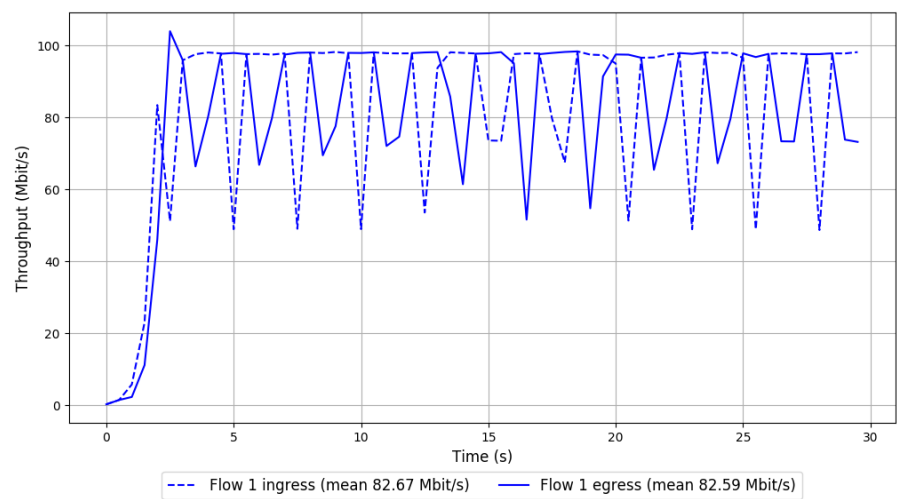
-- Flow 1:

Average throughput: 82.59 Mbit/s

95th percentile per-packet one-way delay: 146.795 ms

Loss rate: 0.99%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-10 21:25:19

End at: 2018-04-10 21:25:49

Below is generated by plot.py at 2018-04-11 01:19:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.74 Mbit/s

95th percentile per-packet one-way delay: 138.341 ms

Loss rate: 1.00%

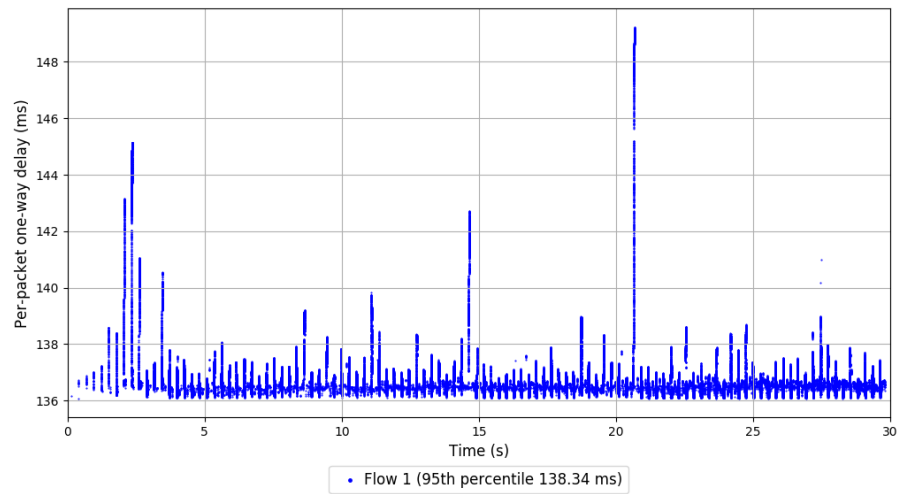
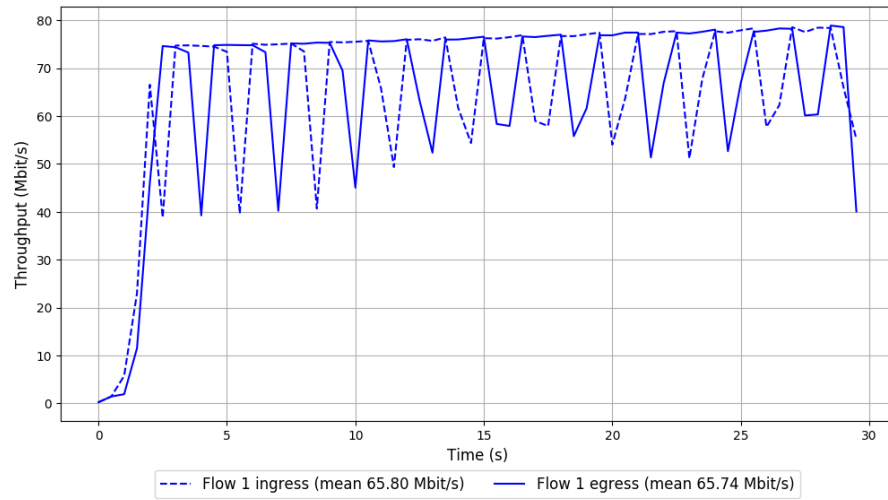
-- Flow 1:

Average throughput: 65.74 Mbit/s

95th percentile per-packet one-way delay: 138.341 ms

Loss rate: 1.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-04-10 21:40:58

End at: 2018-04-10 21:41:28

Below is generated by plot.py at 2018-04-11 01:19:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.87 Mbit/s

95th percentile per-packet one-way delay: 147.865 ms

Loss rate: 0.98%

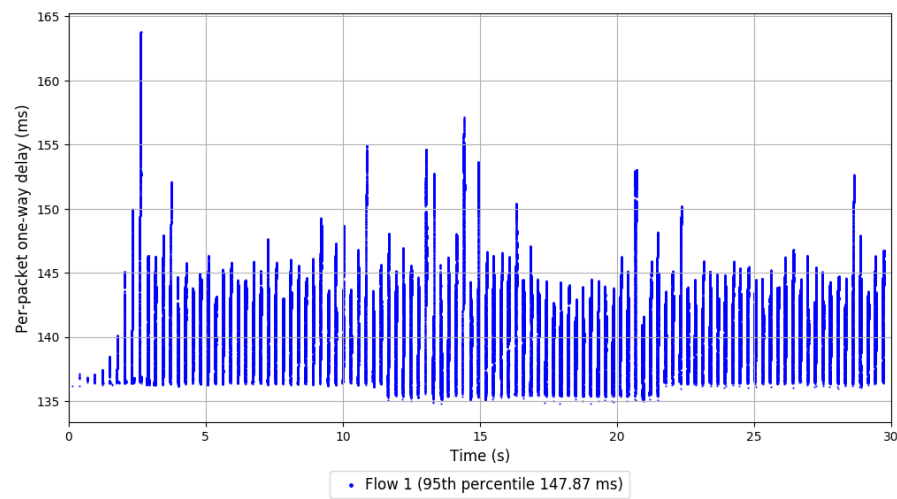
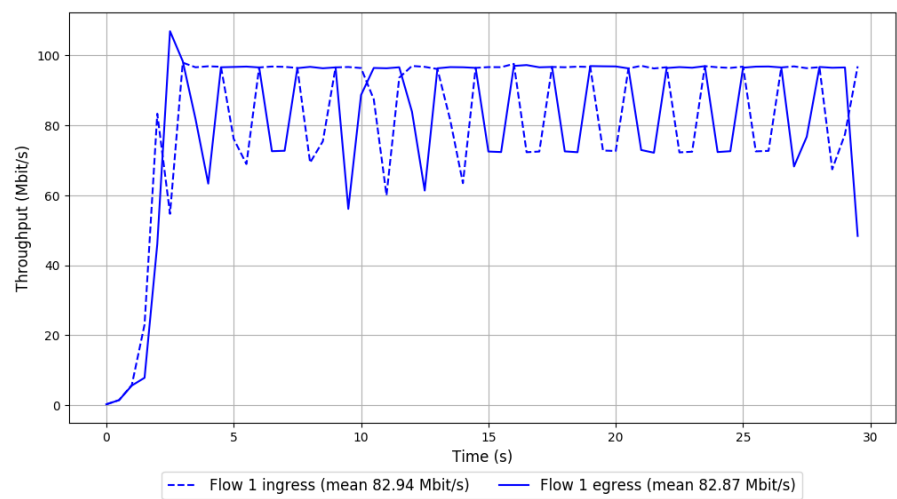
-- Flow 1:

Average throughput: 82.87 Mbit/s

95th percentile per-packet one-way delay: 147.865 ms

Loss rate: 0.98%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-10 21:56:28

End at: 2018-04-10 21:56:58

Below is generated by plot.py at 2018-04-11 01:19:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.45 Mbit/s

95th percentile per-packet one-way delay: 144.628 ms

Loss rate: 0.98%

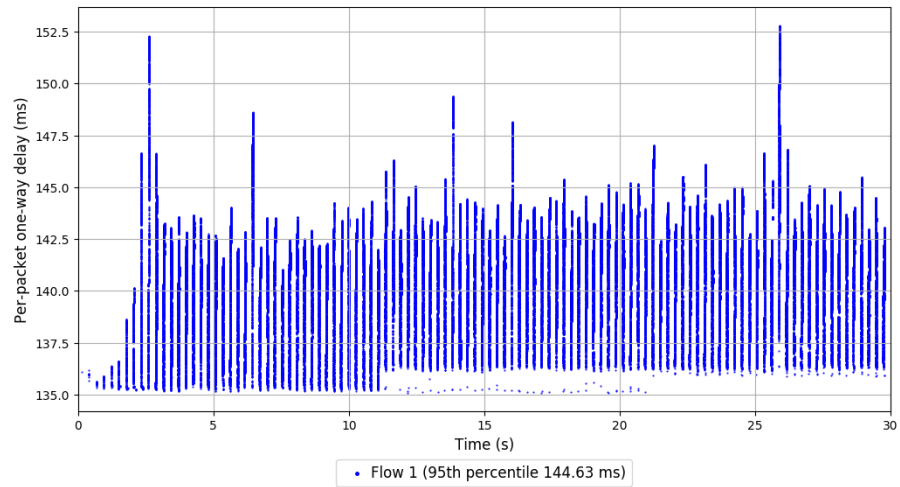
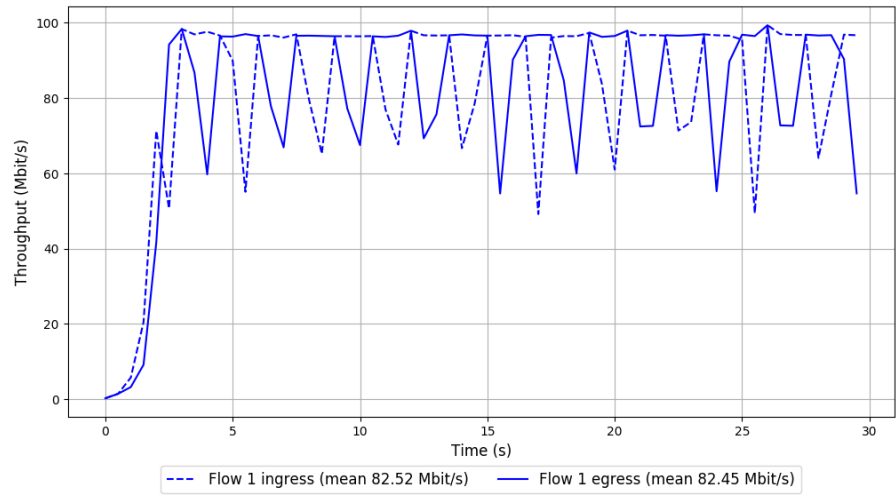
-- Flow 1:

Average throughput: 82.45 Mbit/s

95th percentile per-packet one-way delay: 144.628 ms

Loss rate: 0.98%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-04-10 19:34:22

End at: 2018-04-10 19:34:52

Below is generated by plot.py at 2018-04-11 01:19:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.50 Mbit/s

95th percentile per-packet one-way delay: 223.693 ms

Loss rate: 0.41%

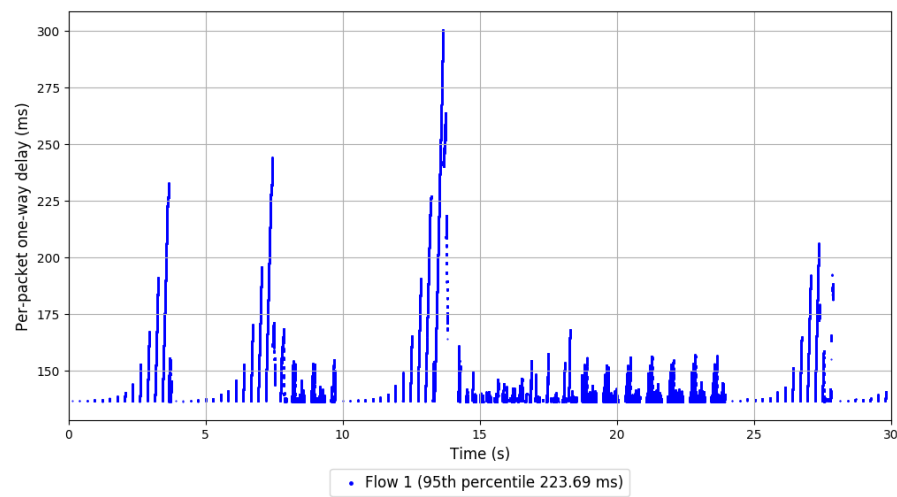
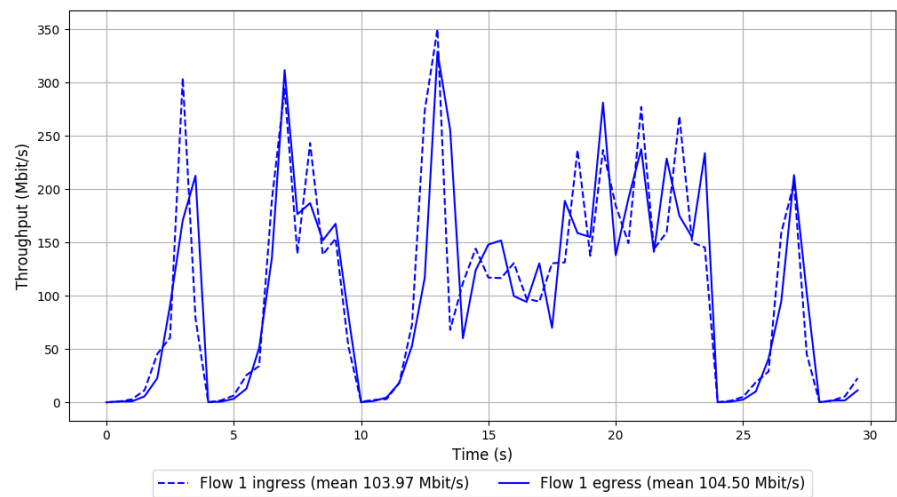
-- Flow 1:

Average throughput: 104.50 Mbit/s

95th percentile per-packet one-way delay: 223.693 ms

Loss rate: 0.41%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-04-10 19:49:39

End at: 2018-04-10 19:50:09

Below is generated by plot.py at 2018-04-11 01:19:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.50 Mbit/s

95th percentile per-packet one-way delay: 252.148 ms

Loss rate: 0.73%

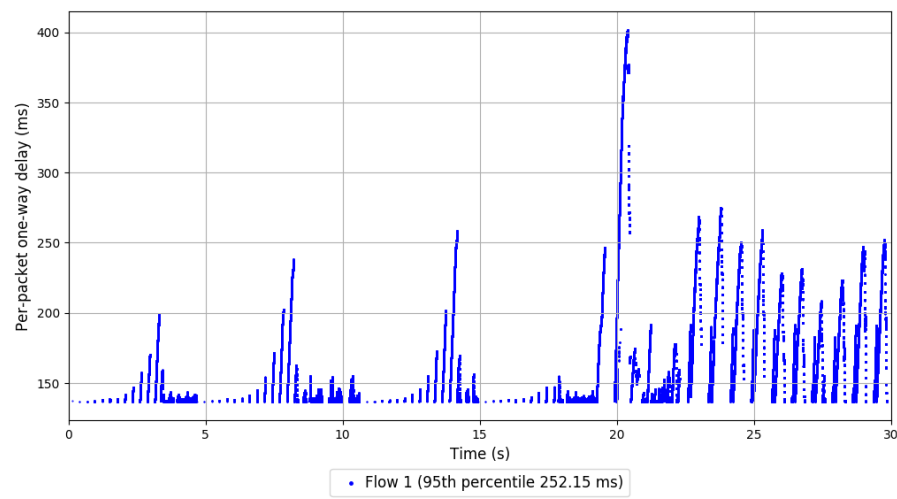
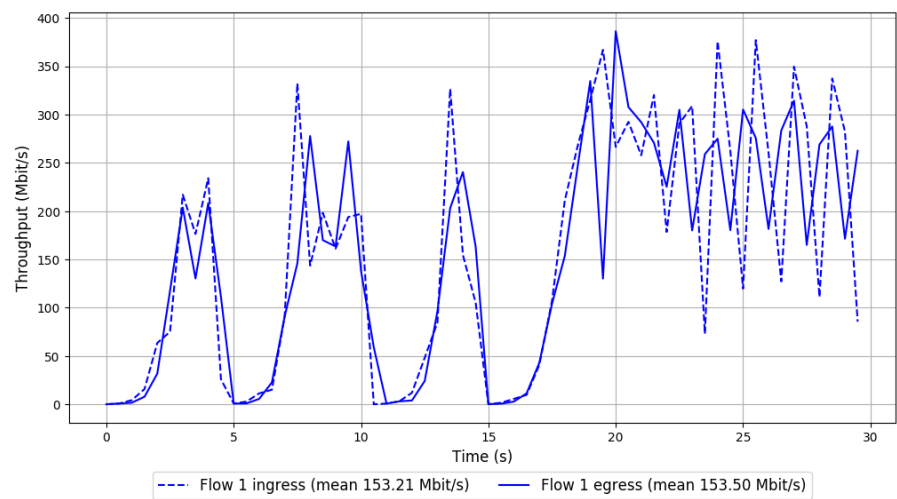
-- Flow 1:

Average throughput: 153.50 Mbit/s

95th percentile per-packet one-way delay: 252.148 ms

Loss rate: 0.73%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-10 20:05:08

End at: 2018-04-10 20:05:38

Below is generated by plot.py at 2018-04-11 01:19:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.67 Mbit/s

95th percentile per-packet one-way delay: 210.274 ms

Loss rate: 1.93%

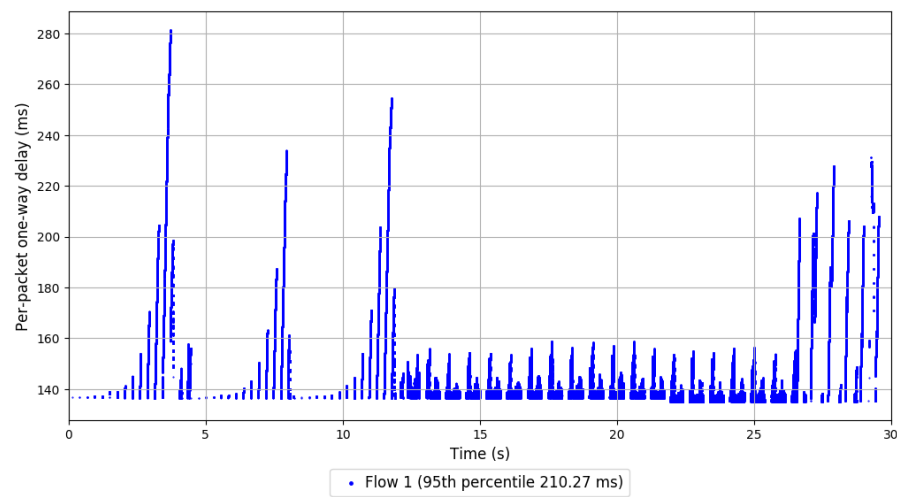
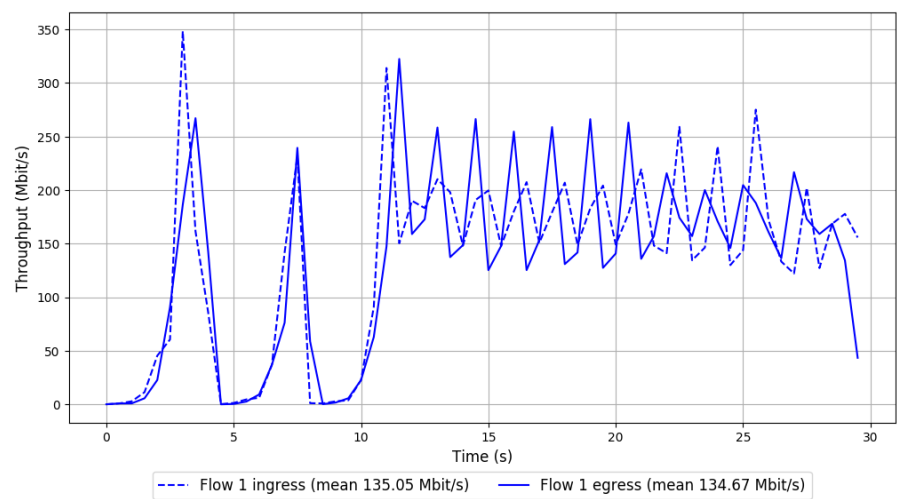
-- Flow 1:

Average throughput: 134.67 Mbit/s

95th percentile per-packet one-way delay: 210.274 ms

Loss rate: 1.93%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-04-10 20:20:20

End at: 2018-04-10 20:20:50

Below is generated by plot.py at 2018-04-11 01:19:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.87 Mbit/s

95th percentile per-packet one-way delay: 274.213 ms

Loss rate: 3.24%

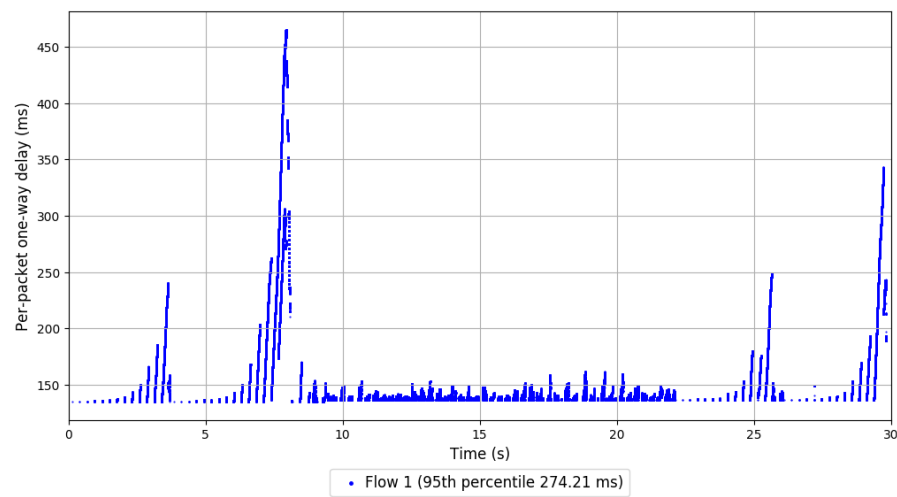
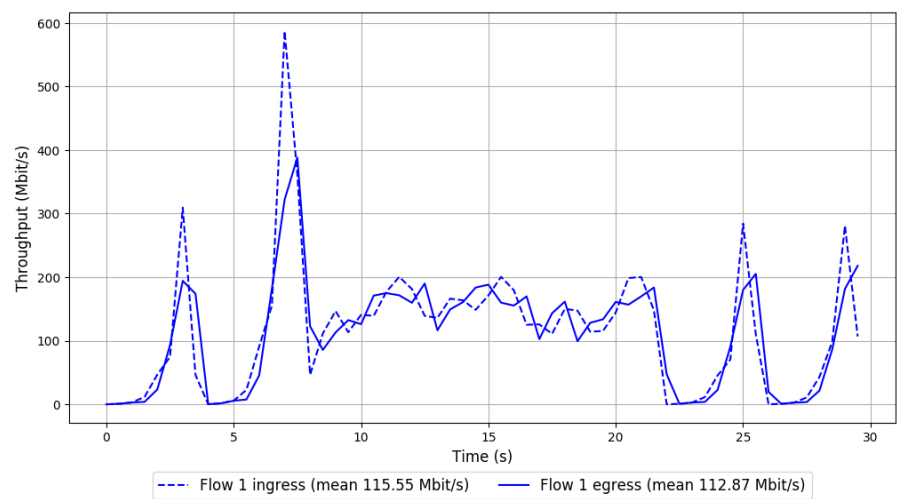
-- Flow 1:

Average throughput: 112.87 Mbit/s

95th percentile per-packet one-way delay: 274.213 ms

Loss rate: 3.24%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-10 20:35:37

End at: 2018-04-10 20:36:07

Below is generated by plot.py at 2018-04-11 01:19:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.78 Mbit/s

95th percentile per-packet one-way delay: 359.612 ms

Loss rate: 7.08%

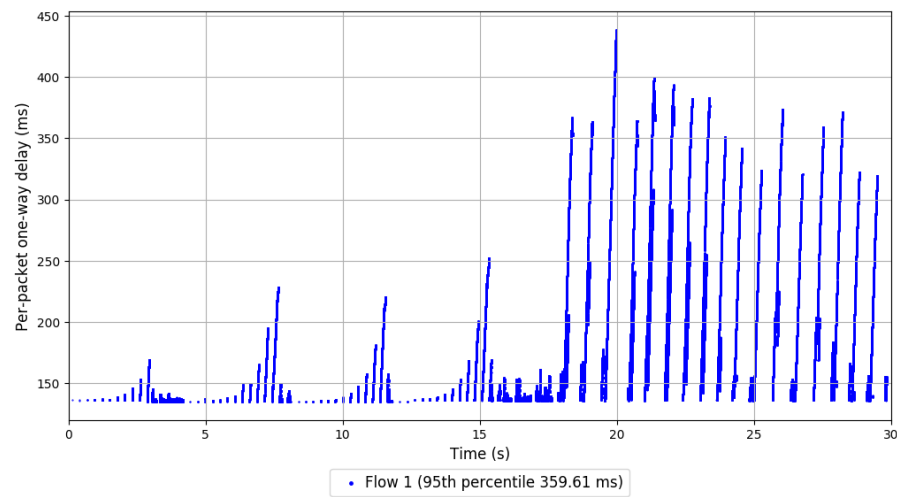
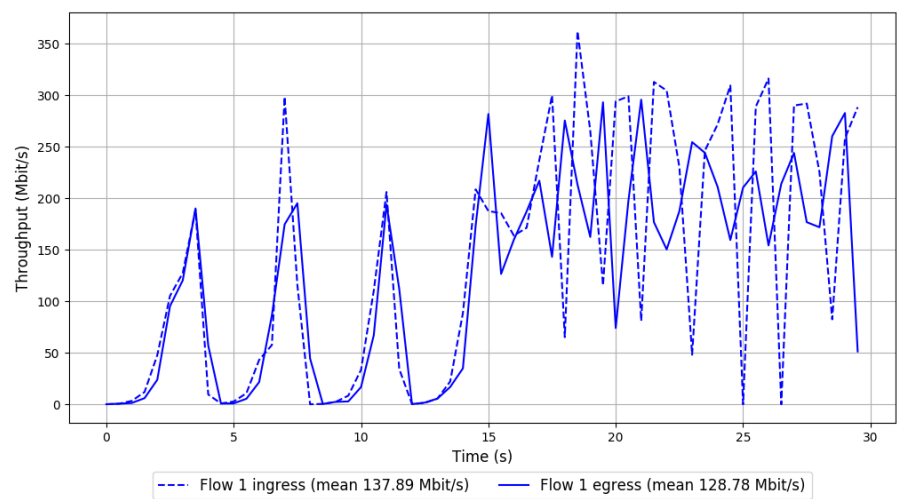
-- Flow 1:

Average throughput: 128.78 Mbit/s

95th percentile per-packet one-way delay: 359.612 ms

Loss rate: 7.08%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-10 20:51:22

End at: 2018-04-10 20:51:52

Below is generated by plot.py at 2018-04-11 01:19:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.62 Mbit/s

95th percentile per-packet one-way delay: 257.354 ms

Loss rate: 4.60%

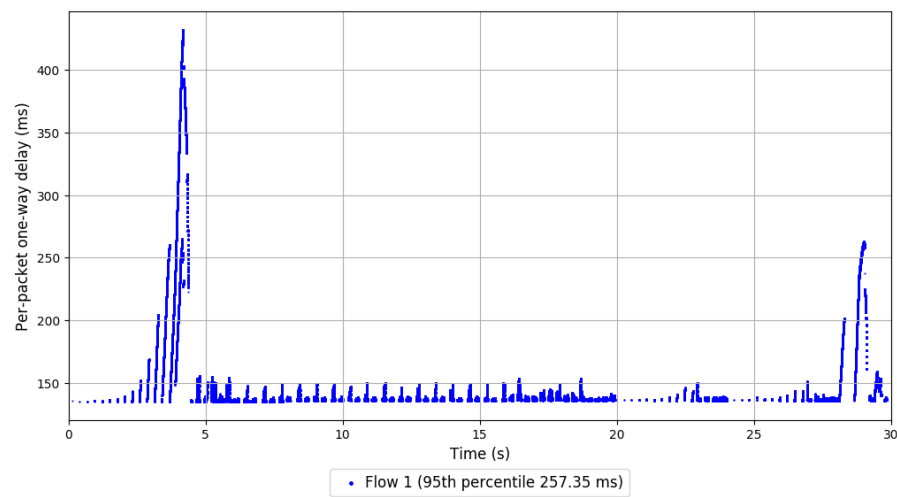
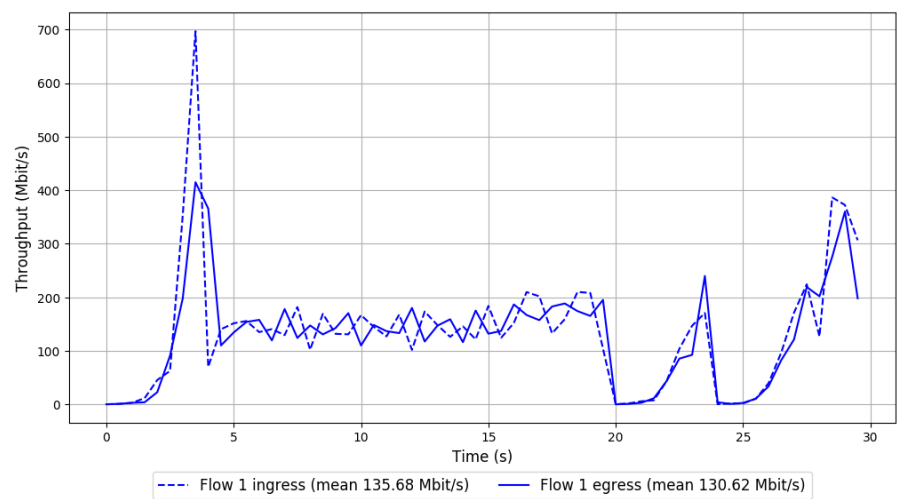
-- Flow 1:

Average throughput: 130.62 Mbit/s

95th percentile per-packet one-way delay: 257.354 ms

Loss rate: 4.60%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-04-10 21:06:41

End at: 2018-04-10 21:07:11

Below is generated by plot.py at 2018-04-11 01:19:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.97 Mbit/s

95th percentile per-packet one-way delay: 227.428 ms

Loss rate: 0.79%

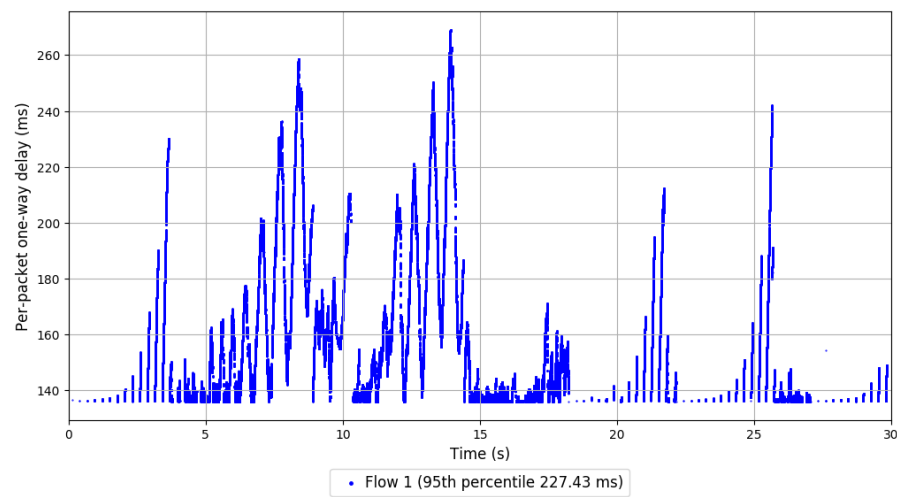
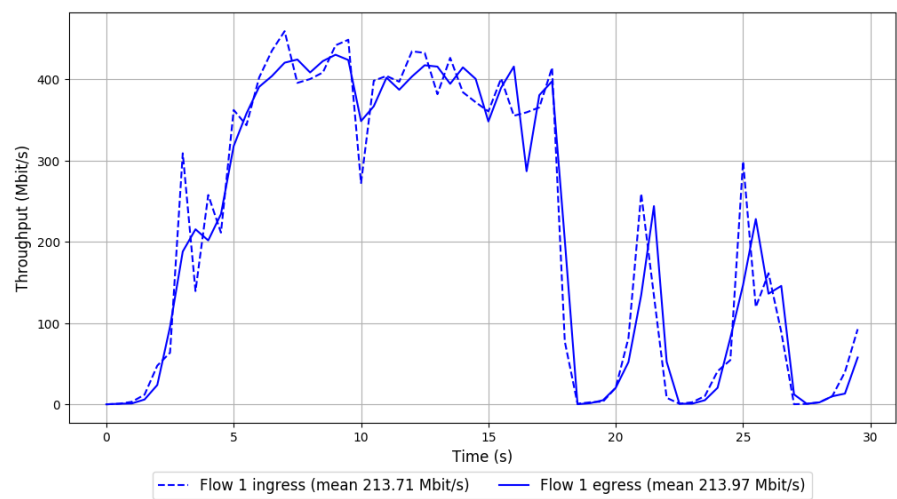
-- Flow 1:

Average throughput: 213.97 Mbit/s

95th percentile per-packet one-way delay: 227.428 ms

Loss rate: 0.79%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-04-10 21:22:30

End at: 2018-04-10 21:23:00

Below is generated by plot.py at 2018-04-11 01:19:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.91 Mbit/s

95th percentile per-packet one-way delay: 254.544 ms

Loss rate: 2.99%

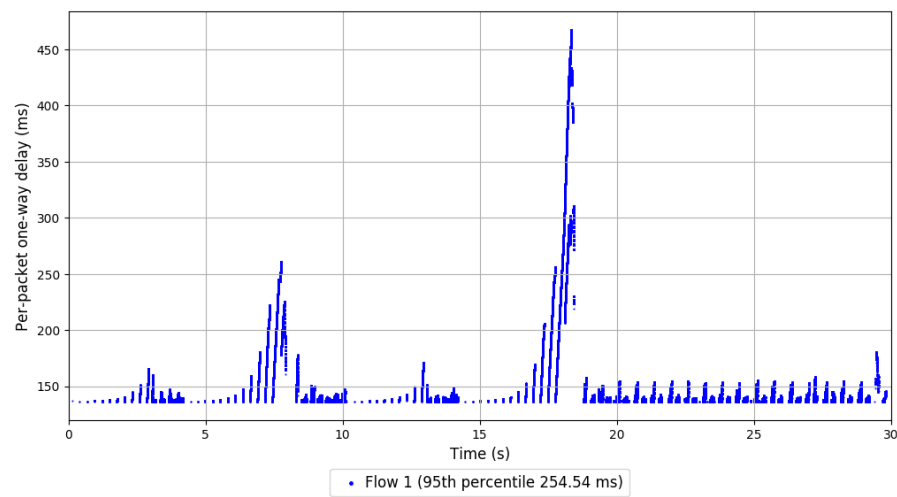
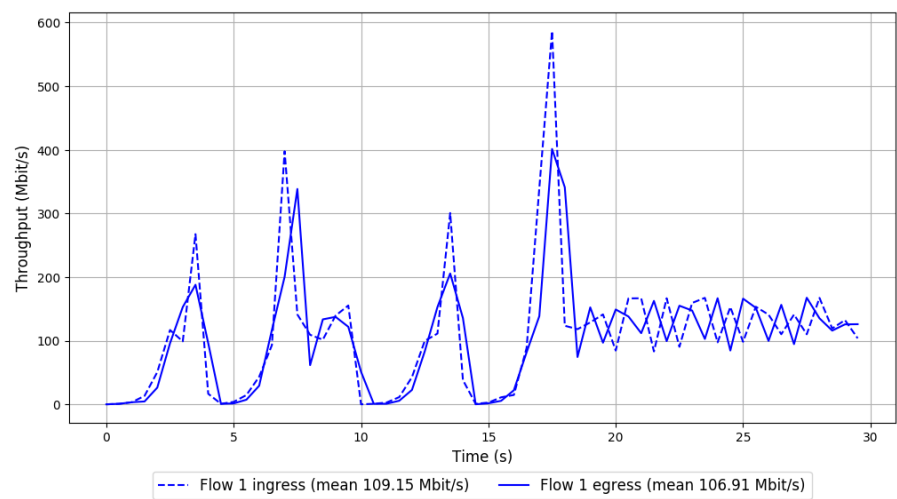
-- Flow 1:

Average throughput: 106.91 Mbit/s

95th percentile per-packet one-way delay: 254.544 ms

Loss rate: 2.99%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-04-10 21:38:05

End at: 2018-04-10 21:38:35

Below is generated by plot.py at 2018-04-11 01:19:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 162.62 Mbit/s

95th percentile per-packet one-way delay: 177.167 ms

Loss rate: 2.07%

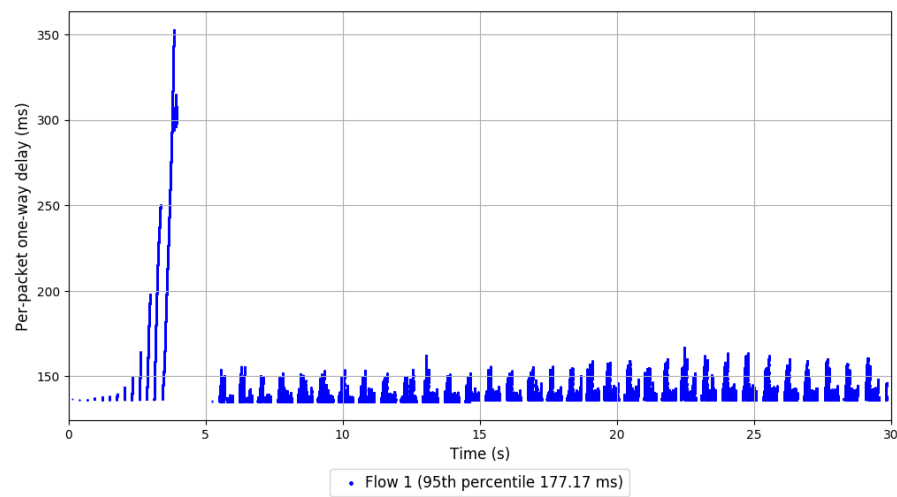
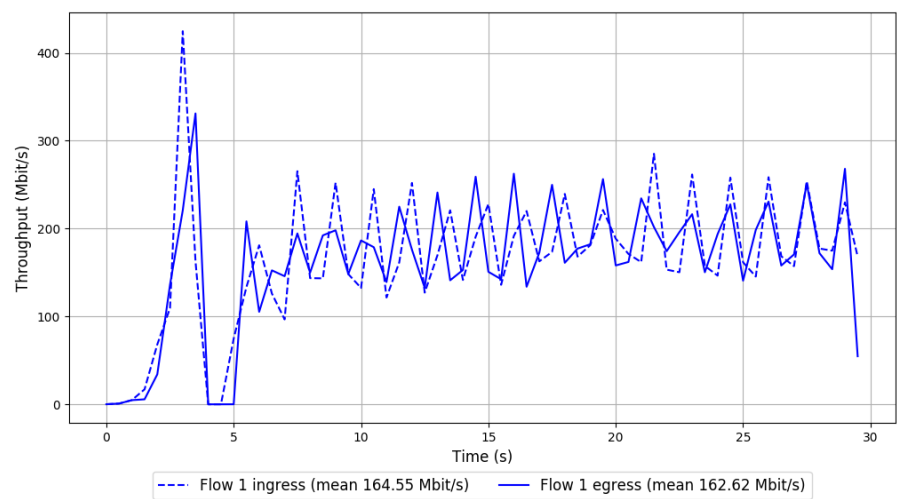
-- Flow 1:

Average throughput: 162.62 Mbit/s

95th percentile per-packet one-way delay: 177.167 ms

Loss rate: 2.07%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-04-10 21:53:39

End at: 2018-04-10 21:54:09

Below is generated by plot.py at 2018-04-11 01:19:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 162.11 Mbit/s

95th percentile per-packet one-way delay: 157.615 ms

Loss rate: 1.23%

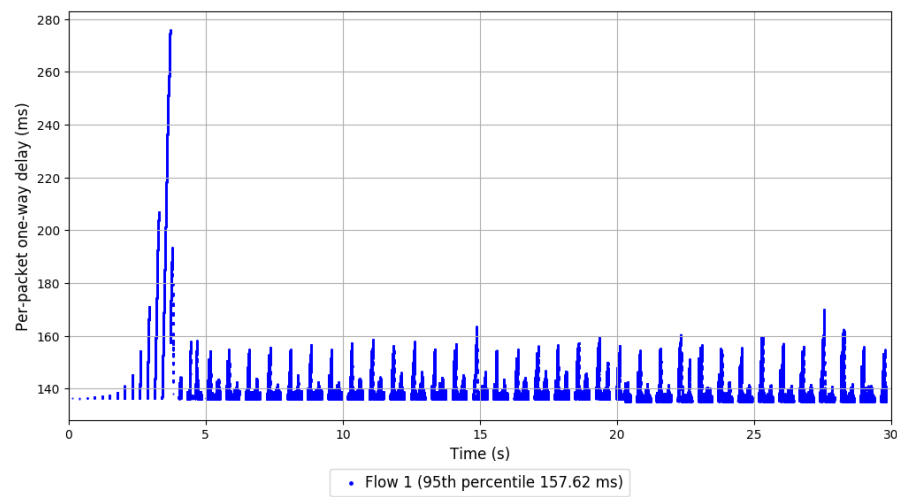
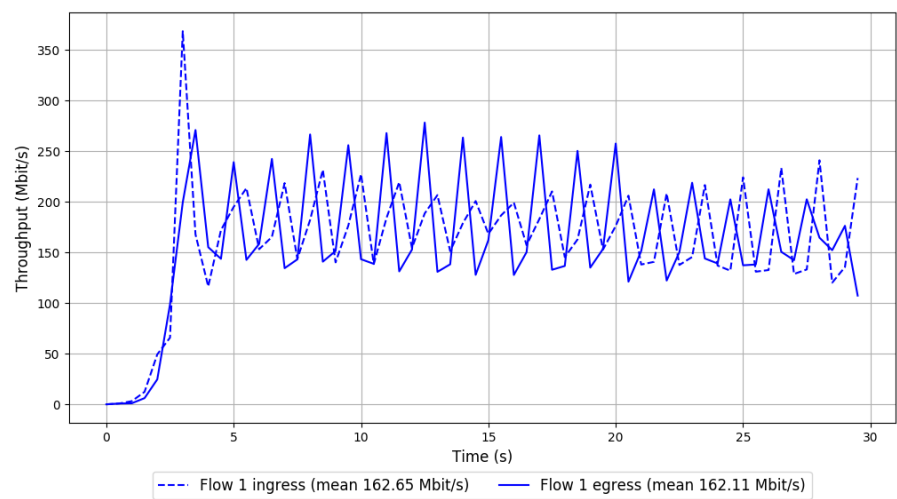
-- Flow 1:

Average throughput: 162.11 Mbit/s

95th percentile per-packet one-way delay: 157.615 ms

Loss rate: 1.23%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-10 19:35:13

End at: 2018-04-10 19:35:43

Below is generated by plot.py at 2018-04-11 01:19:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.98 Mbit/s

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

Loss rate: 1.05%

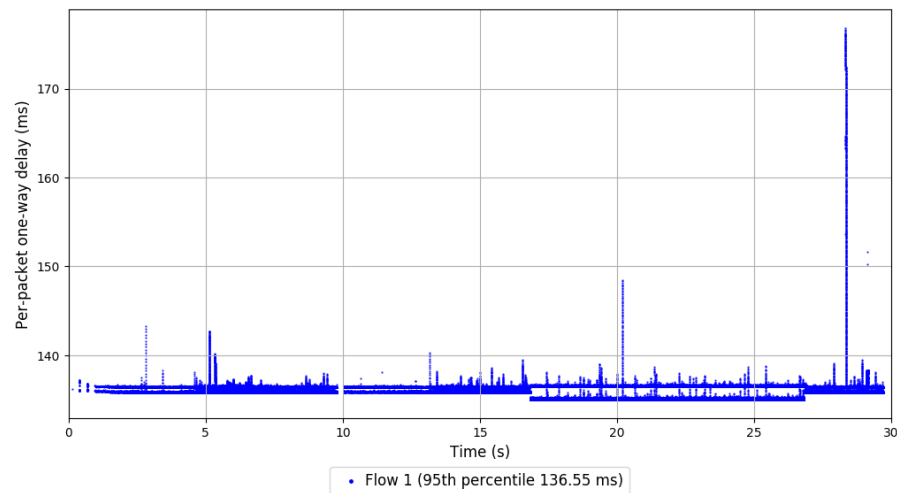
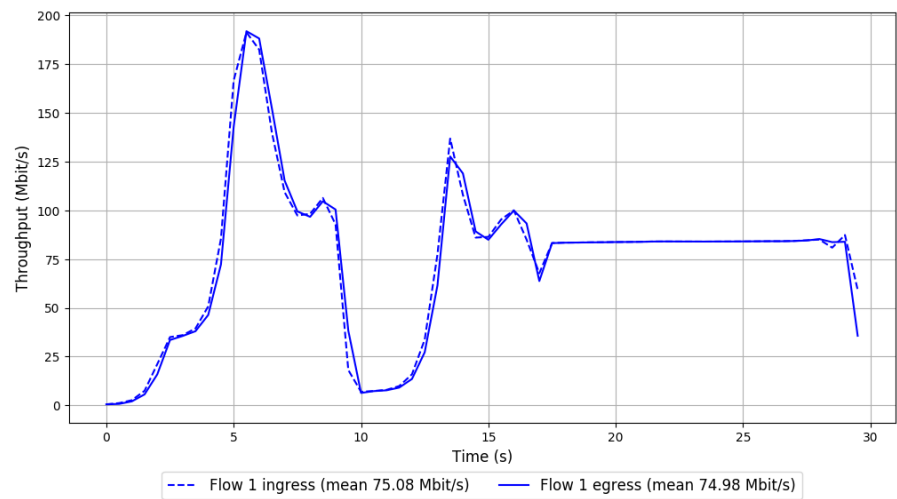
-- Flow 1:

Average throughput: 74.98 Mbit/s

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

Loss rate: 1.05%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-04-10 19:50:33

End at: 2018-04-10 19:51:03

Below is generated by plot.py at 2018-04-11 01:19:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.09 Mbit/s

95th percentile per-packet one-way delay: 136.502 ms

Loss rate: 0.58%

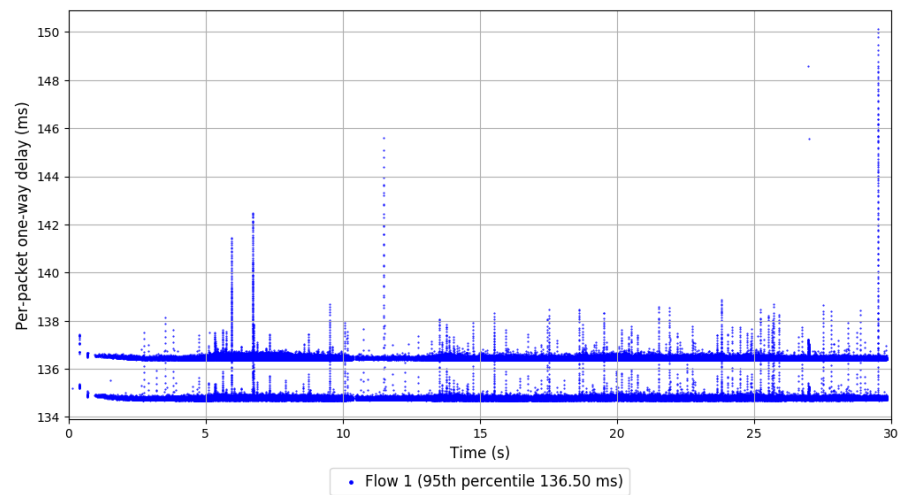
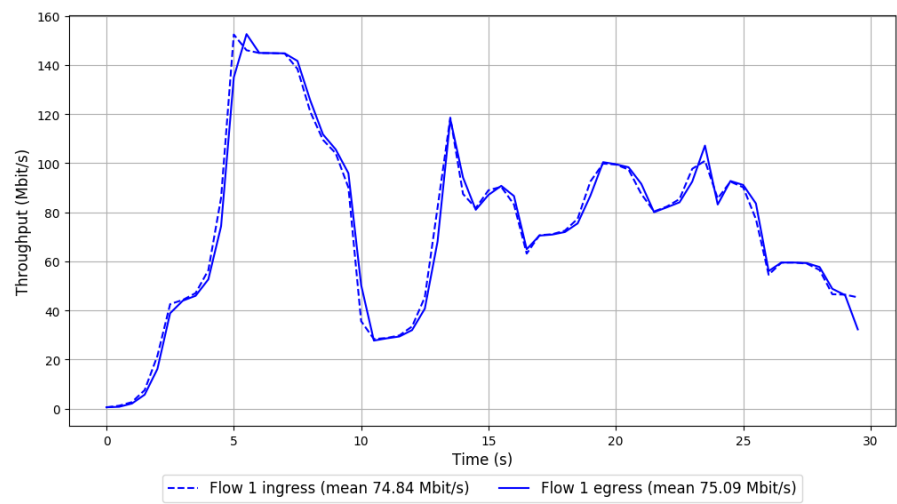
-- Flow 1:

Average throughput: 75.09 Mbit/s

95th percentile per-packet one-way delay: 136.502 ms

Loss rate: 0.58%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-04-10 20:06:00

End at: 2018-04-10 20:06:30

Below is generated by plot.py at 2018-04-11 01:19:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.21 Mbit/s

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

Loss rate: 0.40%

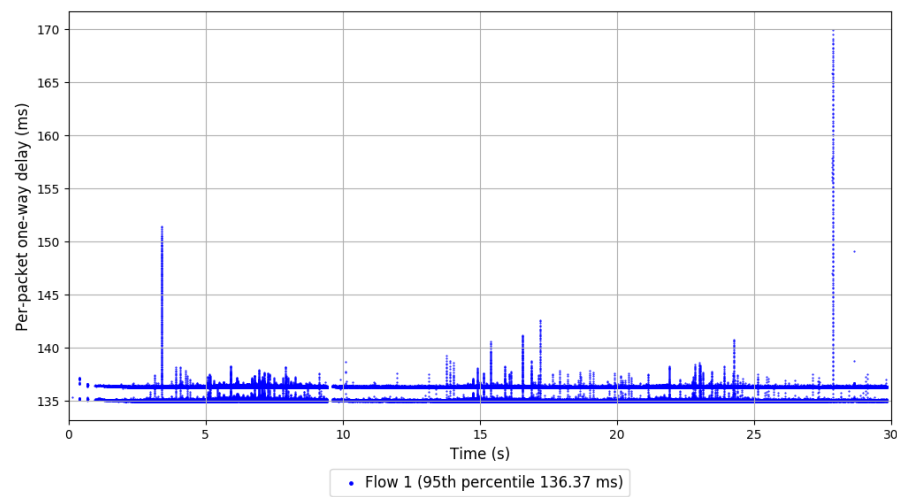
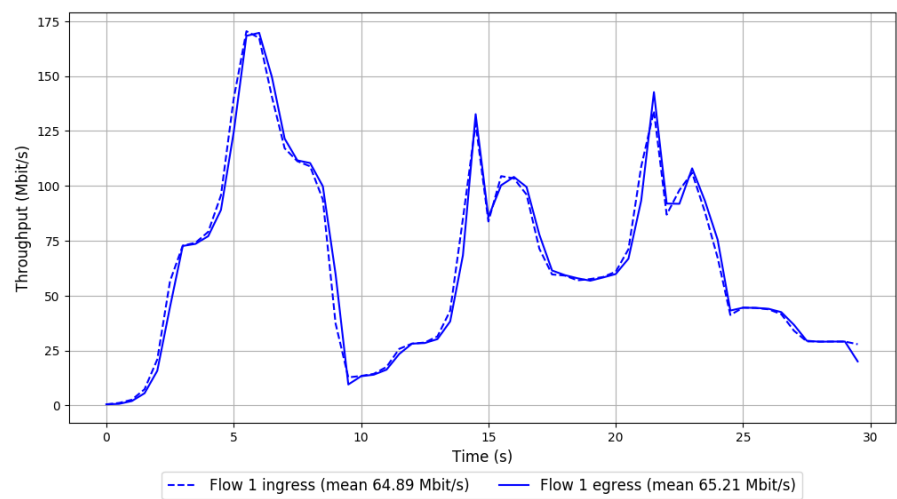
-- Flow 1:

Average throughput: 65.21 Mbit/s

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

Loss rate: 0.40%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-04-10 20:21:11

End at: 2018-04-10 20:21:41

Below is generated by plot.py at 2018-04-11 01:20:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.30 Mbit/s

95th percentile per-packet one-way delay: 136.493 ms

Loss rate: 0.94%

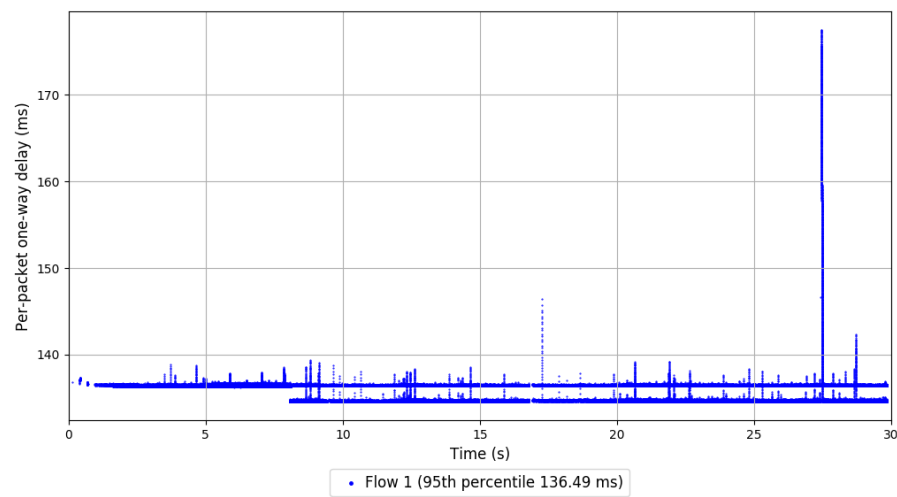
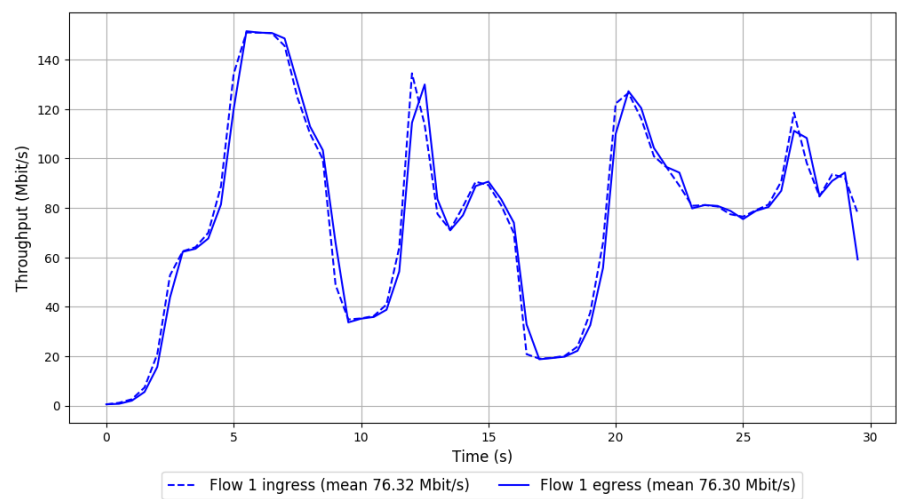
-- Flow 1:

Average throughput: 76.30 Mbit/s

95th percentile per-packet one-way delay: 136.493 ms

Loss rate: 0.94%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-04-10 20:36:29

End at: 2018-04-10 20:36:59

Below is generated by plot.py at 2018-04-11 01:21:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.80 Mbit/s

95th percentile per-packet one-way delay: 136.019 ms

Loss rate: 0.86%

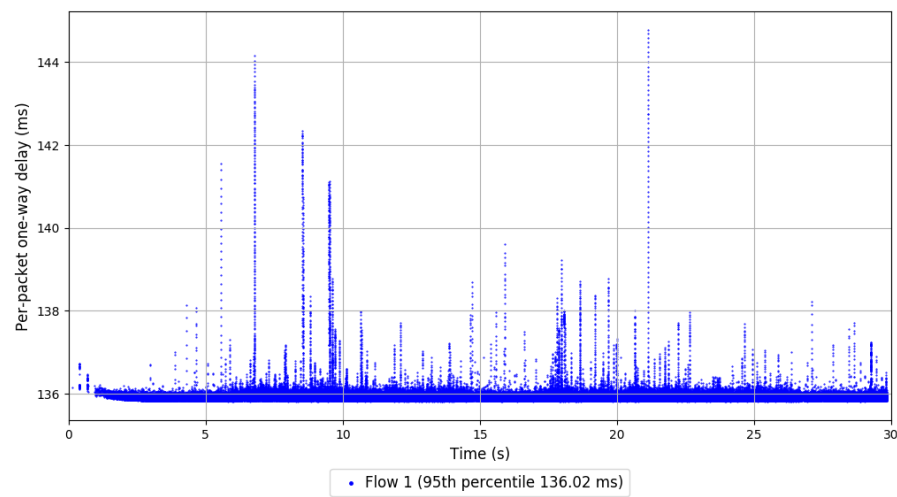
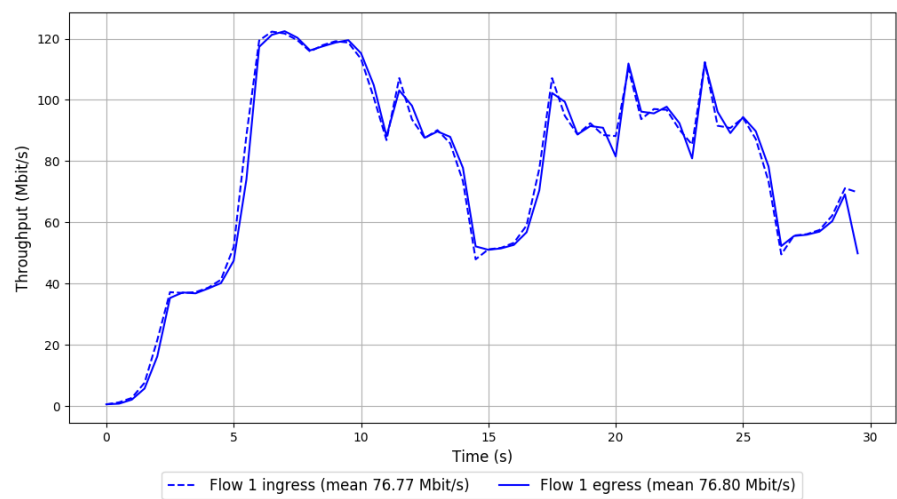
-- Flow 1:

Average throughput: 76.80 Mbit/s

95th percentile per-packet one-way delay: 136.019 ms

Loss rate: 0.86%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-04-10 20:52:14

End at: 2018-04-10 20:52:44

Below is generated by plot.py at 2018-04-11 01:21:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.96 Mbit/s

95th percentile per-packet one-way delay: 135.945 ms

Loss rate: 0.68%

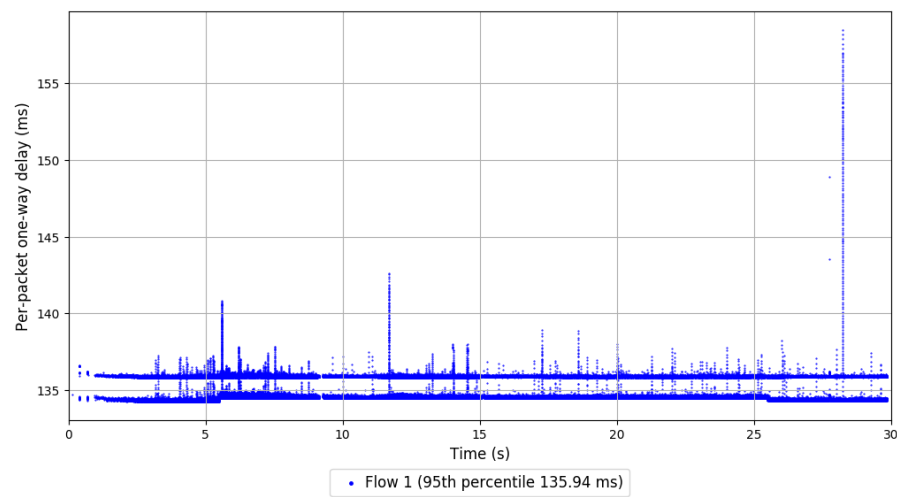
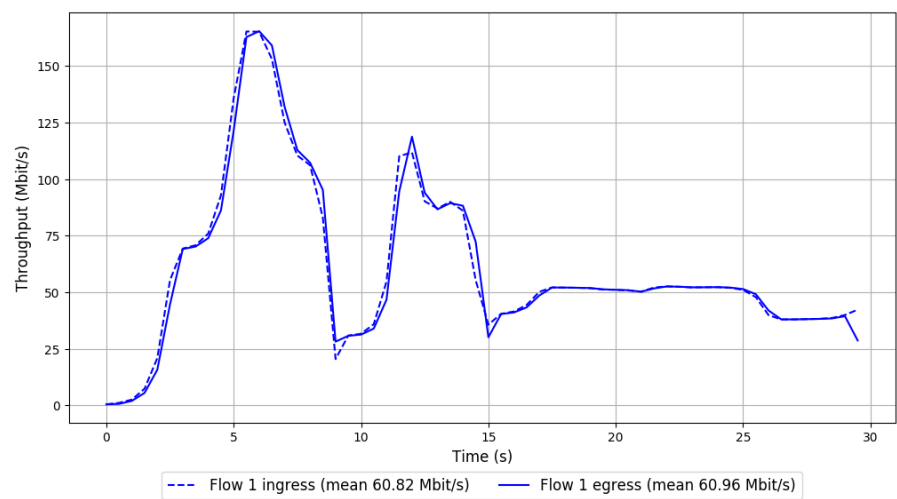
-- Flow 1:

Average throughput: 60.96 Mbit/s

95th percentile per-packet one-way delay: 135.945 ms

Loss rate: 0.68%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-04-10 21:07:39

End at: 2018-04-10 21:08:09

Below is generated by plot.py at 2018-04-11 01:21:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.88 Mbit/s

95th percentile per-packet one-way delay: 136.080 ms

Loss rate: 1.07%

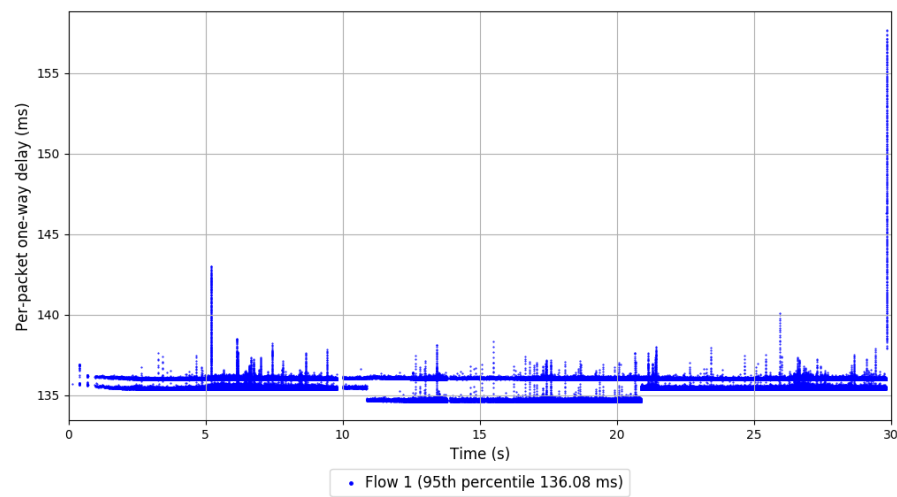
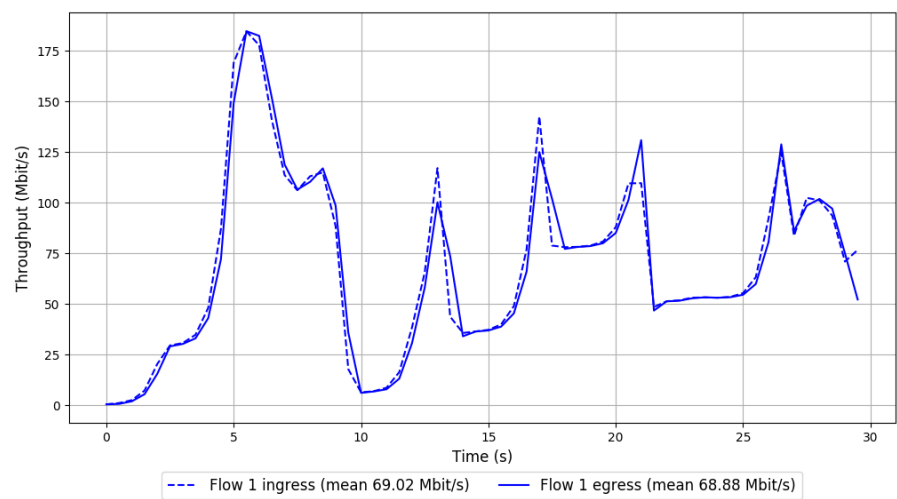
-- Flow 1:

Average throughput: 68.88 Mbit/s

95th percentile per-packet one-way delay: 136.080 ms

Loss rate: 1.07%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-10 21:23:21

End at: 2018-04-10 21:23:51

Below is generated by plot.py at 2018-04-11 01:21:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.25 Mbit/s

95th percentile per-packet one-way delay: 136.212 ms

Loss rate: 1.28%

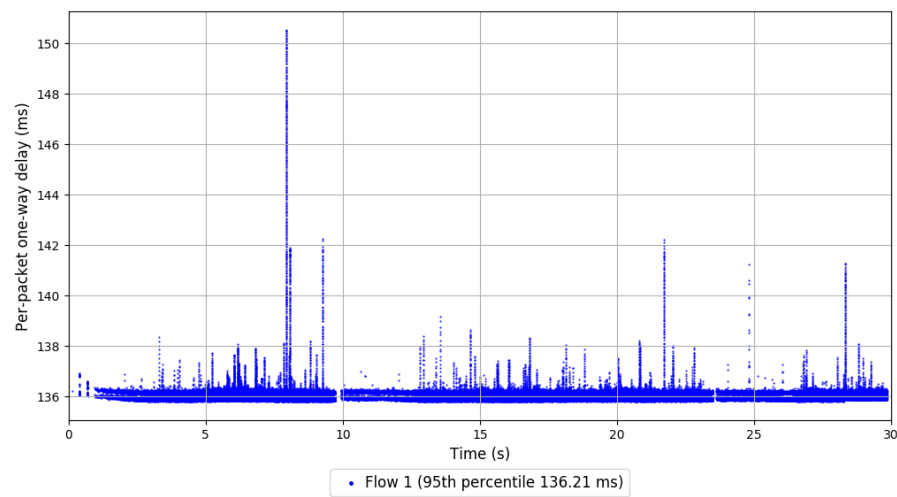
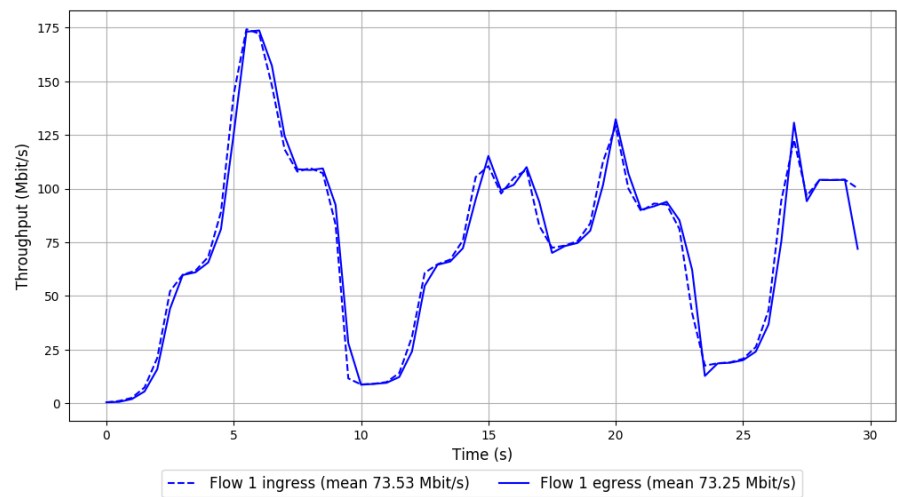
-- Flow 1:

Average throughput: 73.25 Mbit/s

95th percentile per-packet one-way delay: 136.212 ms

Loss rate: 1.28%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-10 21:39:00

End at: 2018-04-10 21:39:30

Below is generated by plot.py at 2018-04-11 01:22:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.81 Mbit/s

95th percentile per-packet one-way delay: 136.194 ms

Loss rate: 0.99%

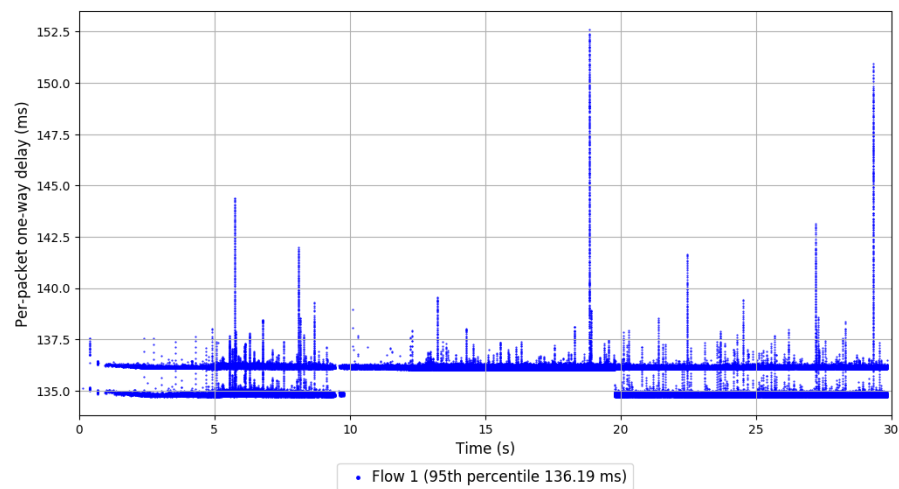
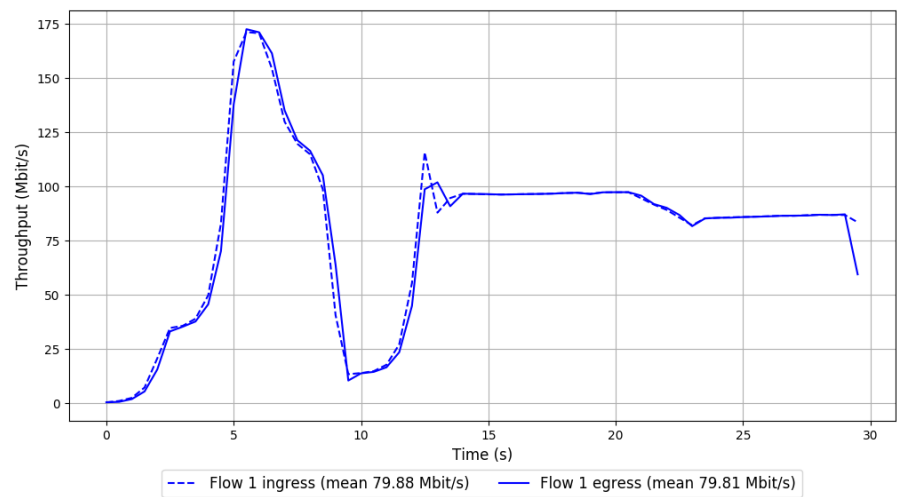
-- Flow 1:

Average throughput: 79.81 Mbit/s

95th percentile per-packet one-way delay: 136.194 ms

Loss rate: 0.99%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-10 21:54:34

End at: 2018-04-10 21:55:04

Below is generated by plot.py at 2018-04-11 01:22:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.64 Mbit/s

95th percentile per-packet one-way delay: 136.154 ms

Loss rate: 1.13%

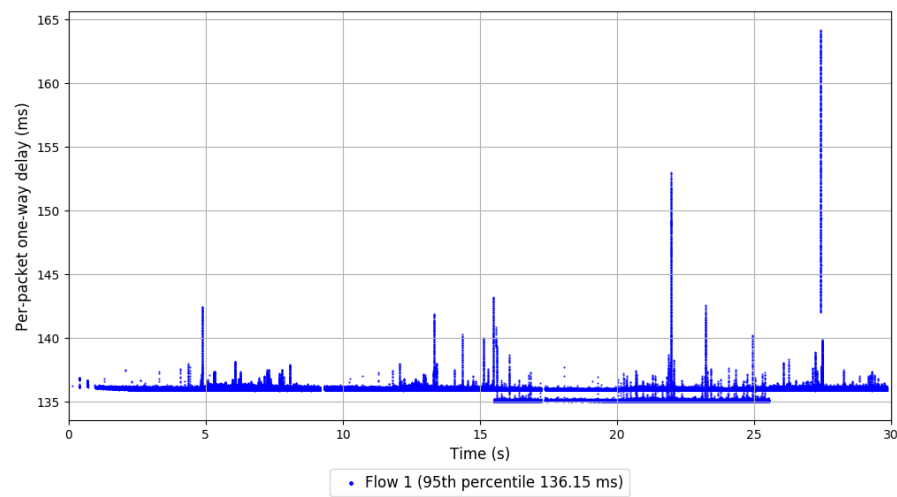
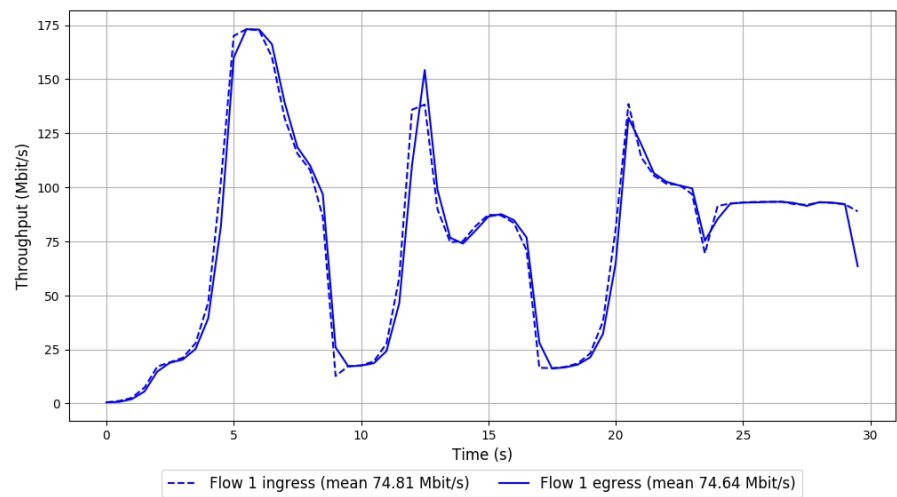
-- Flow 1:

Average throughput: 74.64 Mbit/s

95th percentile per-packet one-way delay: 136.154 ms

Loss rate: 1.13%

Run 10: Report of Copa — Data Link

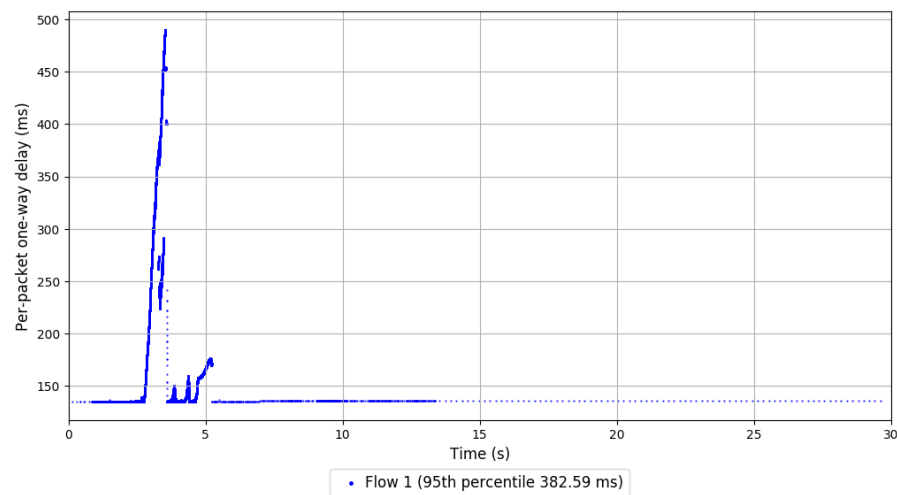
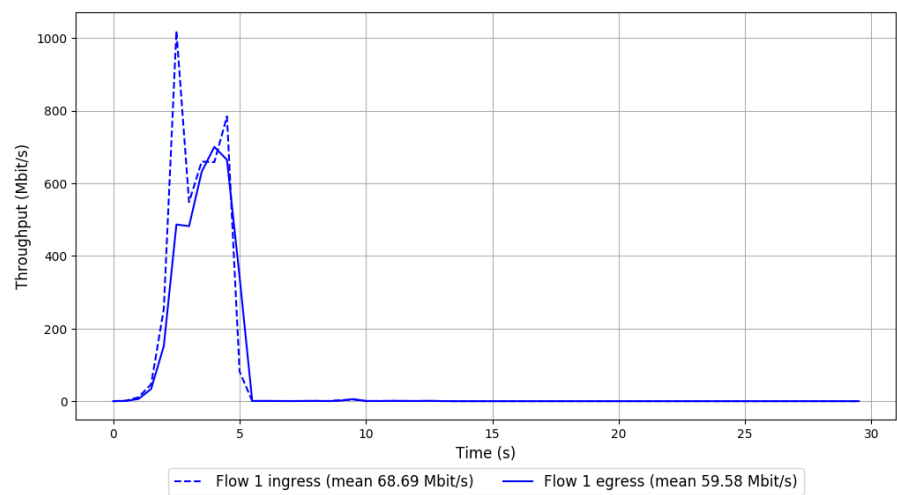


```
Run 1: Statistics of FillP

Start at: 2018-04-10 19:40:52
End at: 2018-04-10 19:41:23

# Below is generated by plot.py at 2018-04-11 01:22:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.58 Mbit/s
95th percentile per-packet one-way delay: 382.587 ms
Loss rate: 13.85%
-- Flow 1:
Average throughput: 59.58 Mbit/s
95th percentile per-packet one-way delay: 382.587 ms
Loss rate: 13.85%
```


Run 1: Report of FillP — Data Link

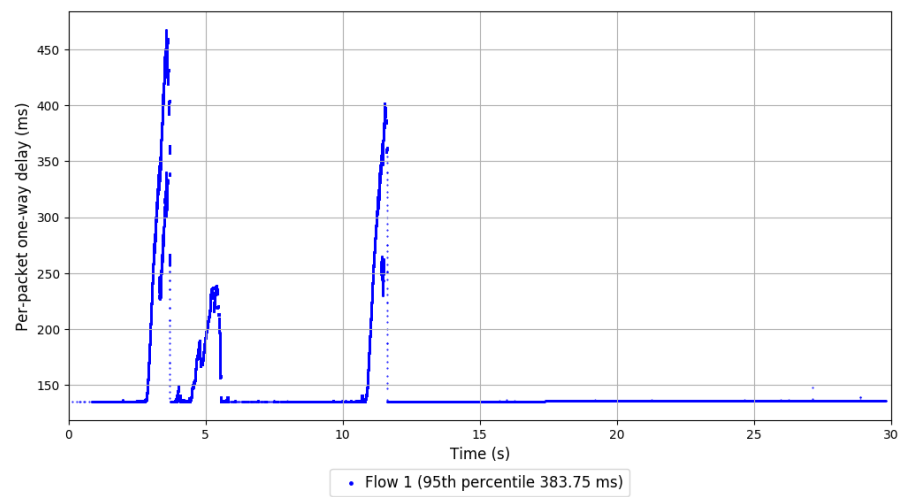
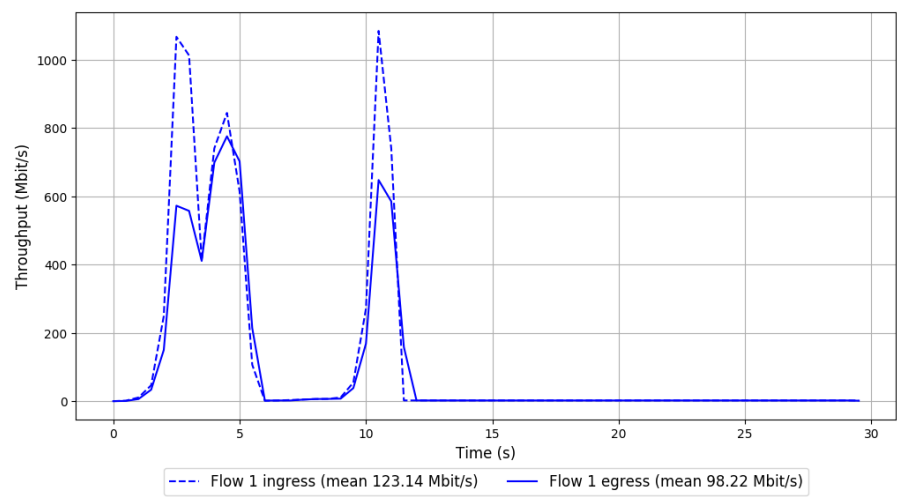


```
Run 2: Statistics of FillP

Start at: 2018-04-10 19:56:12
End at: 2018-04-10 19:56:42

# Below is generated by plot.py at 2018-04-11 01:22:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 98.22 Mbit/s
95th percentile per-packet one-way delay: 383.754 ms
Loss rate: 20.95%
-- Flow 1:
Average throughput: 98.22 Mbit/s
95th percentile per-packet one-way delay: 383.754 ms
Loss rate: 20.95%
```

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-04-10 20:11:37

End at: 2018-04-10 20:12:07

Below is generated by plot.py at 2018-04-11 01:22:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.93 Mbit/s

95th percentile per-packet one-way delay: 405.405 ms

Loss rate: 18.16%

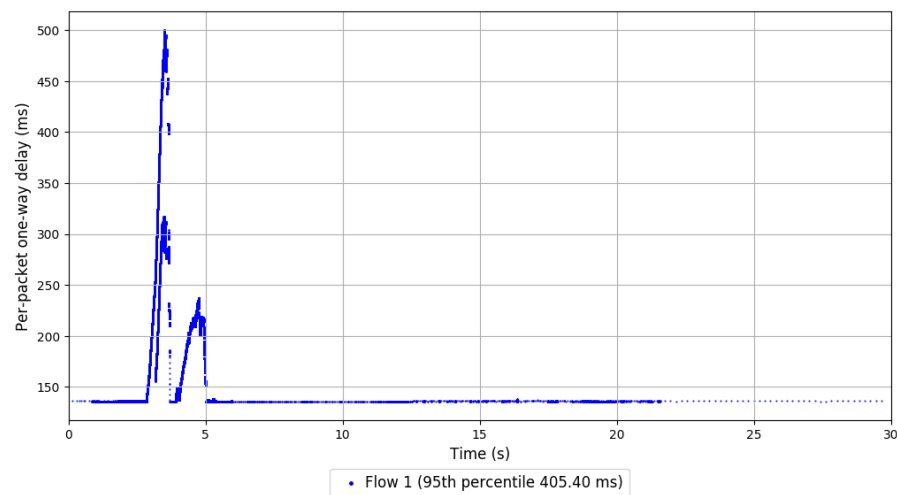
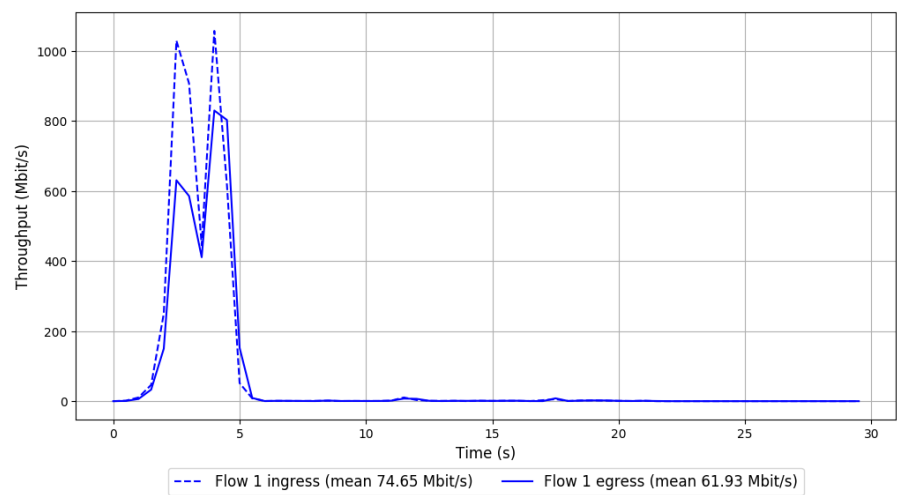
-- Flow 1:

Average throughput: 61.93 Mbit/s

95th percentile per-packet one-way delay: 405.405 ms

Loss rate: 18.16%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-04-10 20:26:50

End at: 2018-04-10 20:27:20

Below is generated by plot.py at 2018-04-11 01:22:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.65 Mbit/s

95th percentile per-packet one-way delay: 355.678 ms

Loss rate: 12.67%

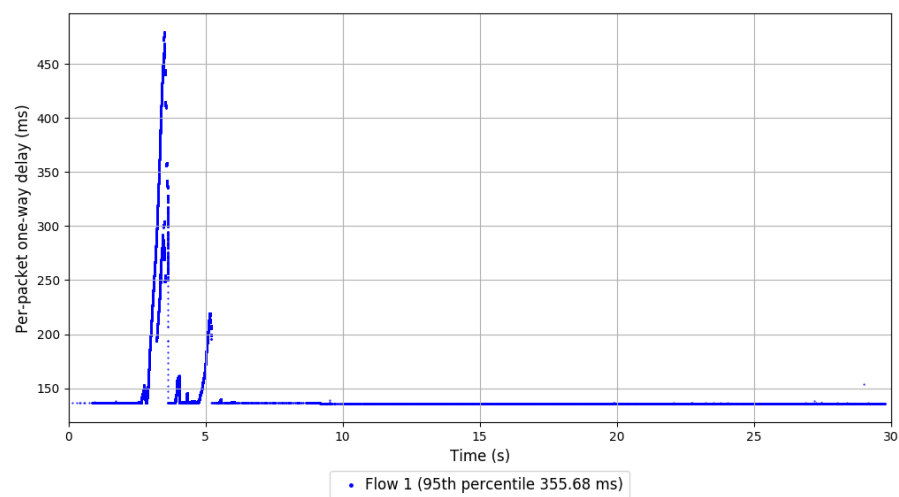
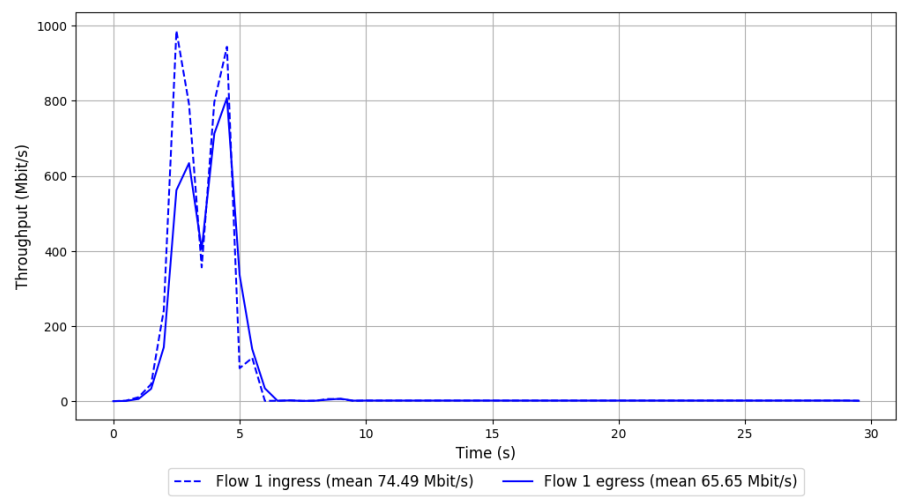
-- Flow 1:

Average throughput: 65.65 Mbit/s

95th percentile per-packet one-way delay: 355.678 ms

Loss rate: 12.67%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-10 20:42:13

End at: 2018-04-10 20:42:43

Below is generated by plot.py at 2018-04-11 01:34:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 680.30 Mbit/s

95th percentile per-packet one-way delay: 227.179 ms

Loss rate: 6.26%

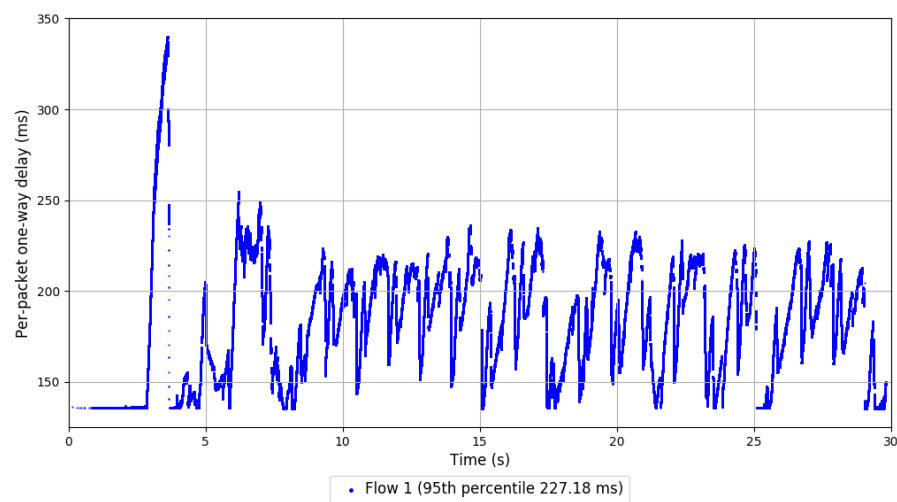
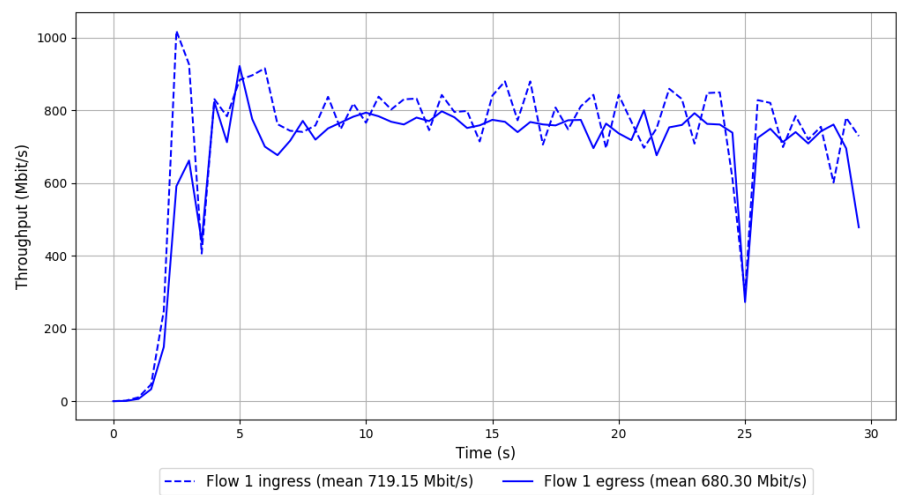
-- Flow 1:

Average throughput: 680.30 Mbit/s

95th percentile per-packet one-way delay: 227.179 ms

Loss rate: 6.26%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-04-10 20:57:53

End at: 2018-04-10 20:58:23

Below is generated by plot.py at 2018-04-11 01:34:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.39 Mbit/s

95th percentile per-packet one-way delay: 389.508 ms

Loss rate: 15.03%

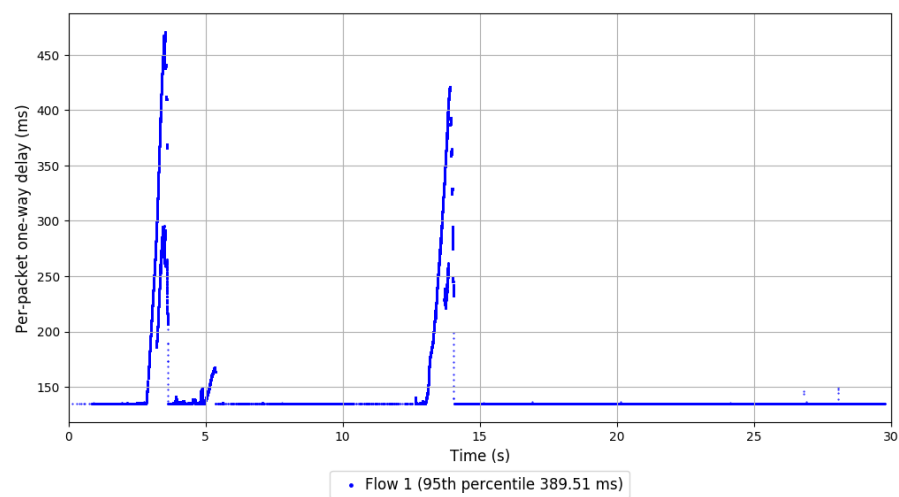
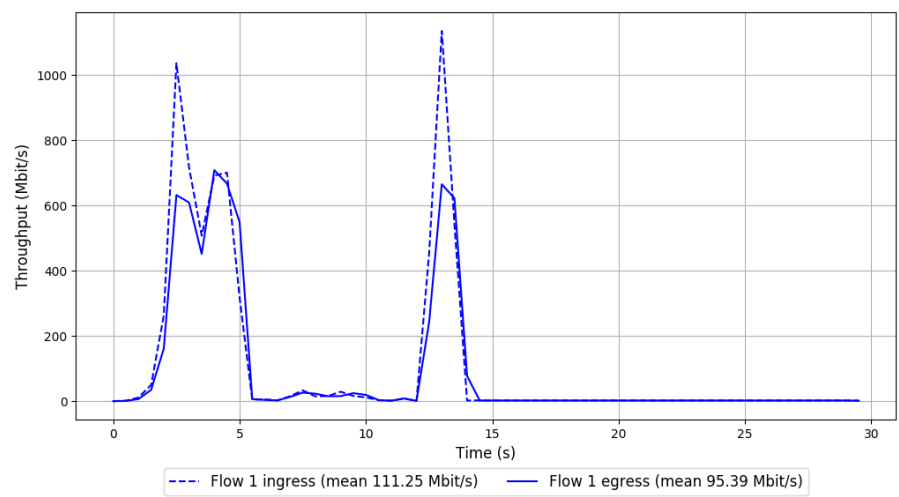
-- Flow 1:

Average throughput: 95.39 Mbit/s

95th percentile per-packet one-way delay: 389.508 ms

Loss rate: 15.03%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-04-10 21:13:17

End at: 2018-04-10 21:13:47

Below is generated by plot.py at 2018-04-11 01:34:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 667.00 Mbit/s

95th percentile per-packet one-way delay: 228.712 ms

Loss rate: 7.08%

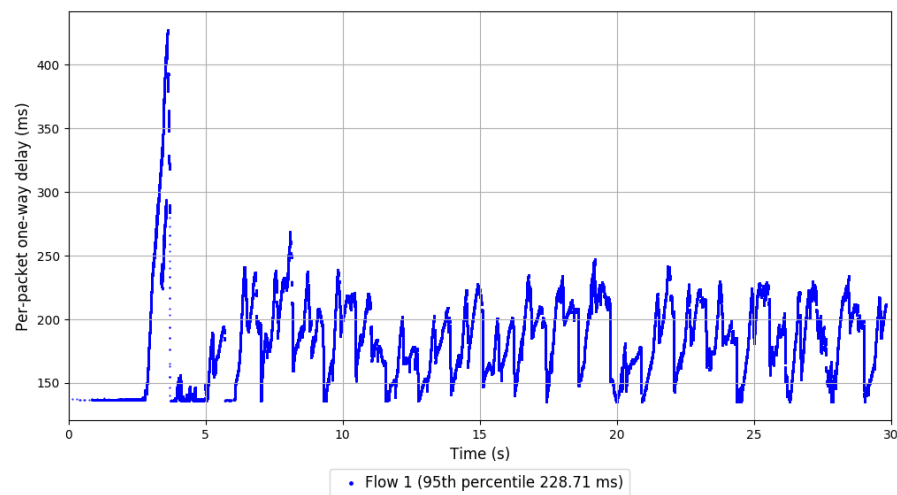
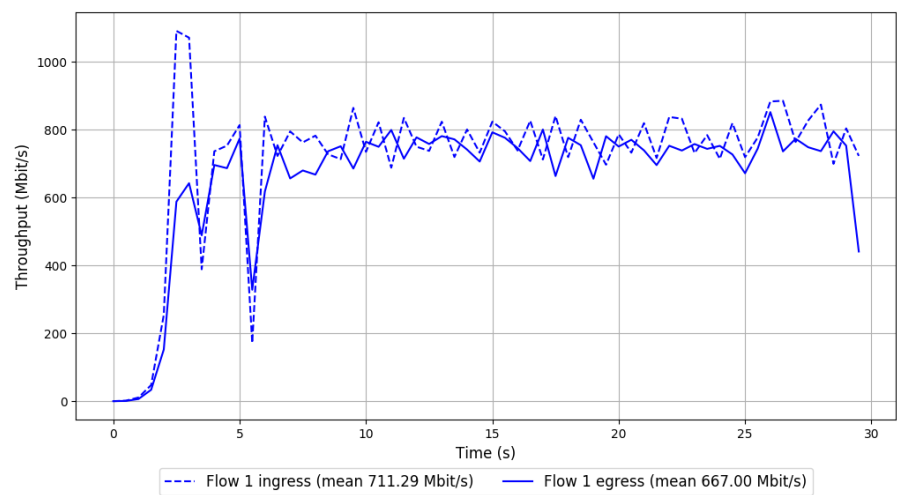
-- Flow 1:

Average throughput: 667.00 Mbit/s

95th percentile per-packet one-way delay: 228.712 ms

Loss rate: 7.08%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-10 21:29:03

End at: 2018-04-10 21:29:33

Below is generated by plot.py at 2018-04-11 01:34:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 684.43 Mbit/s

95th percentile per-packet one-way delay: 233.562 ms

Loss rate: 9.03%

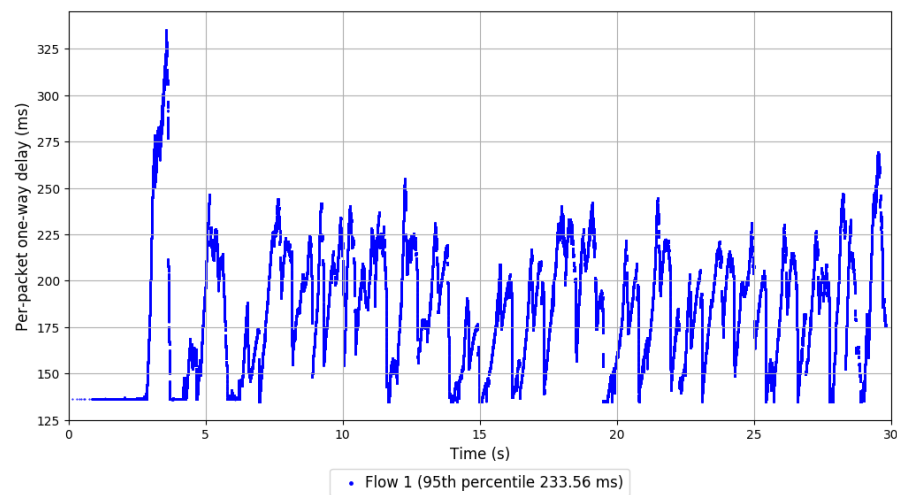
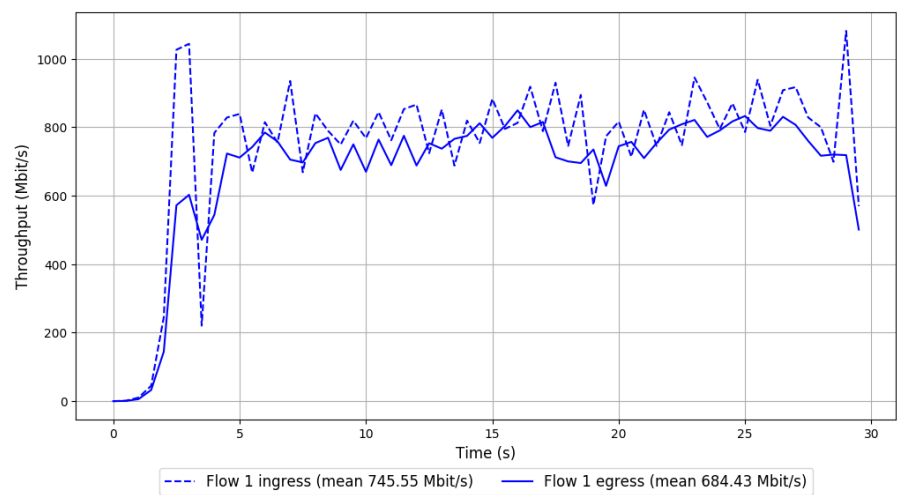
-- Flow 1:

Average throughput: 684.43 Mbit/s

95th percentile per-packet one-way delay: 233.562 ms

Loss rate: 9.03%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-10 21:44:44

End at: 2018-04-10 21:45:14

Below is generated by plot.py at 2018-04-11 01:34:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 647.77 Mbit/s

95th percentile per-packet one-way delay: 236.096 ms

Loss rate: 9.13%

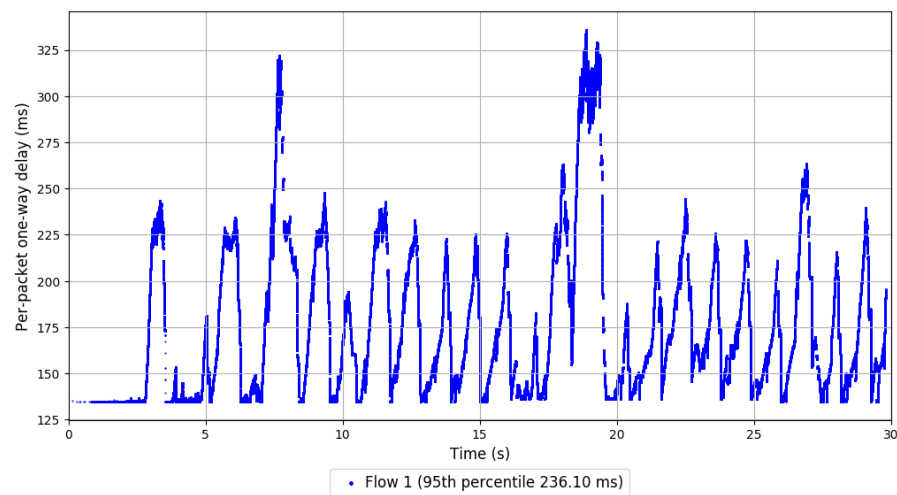
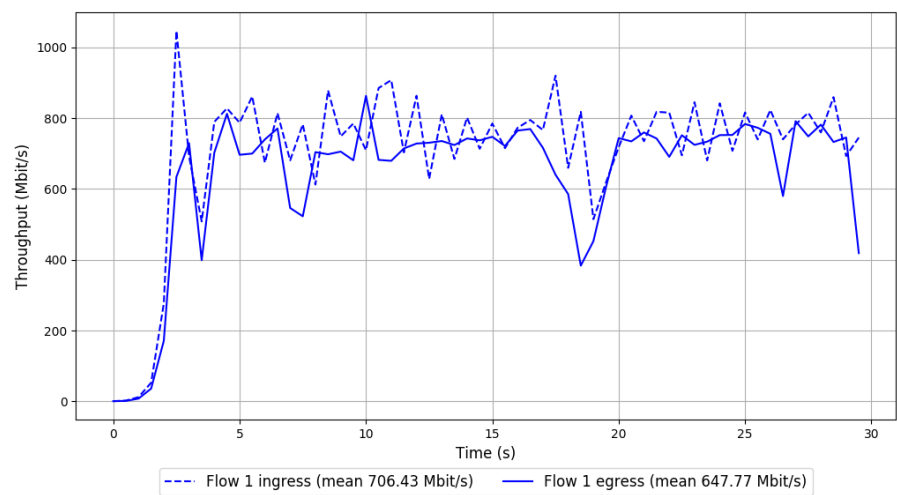
-- Flow 1:

Average throughput: 647.77 Mbit/s

95th percentile per-packet one-way delay: 236.096 ms

Loss rate: 9.13%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-10 22:00:14

End at: 2018-04-10 22:00:44

Below is generated by plot.py at 2018-04-11 01:34:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.98 Mbit/s

95th percentile per-packet one-way delay: 373.497 ms

Loss rate: 16.36%

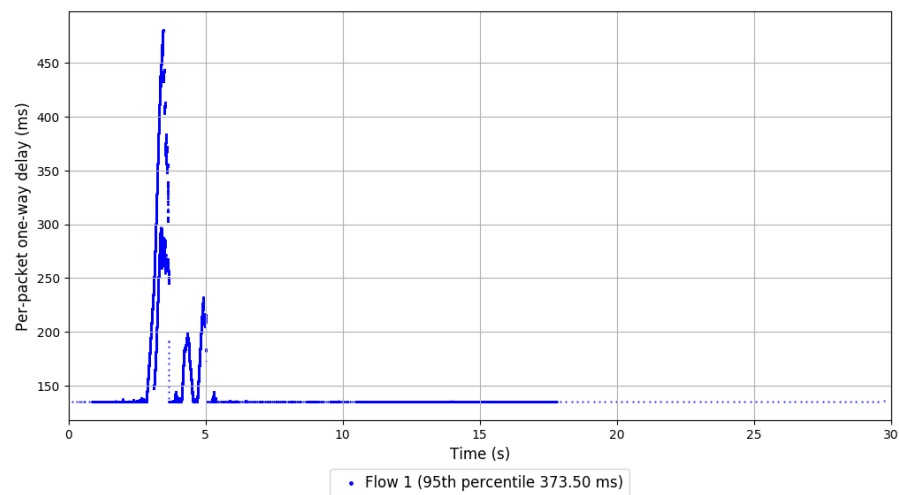
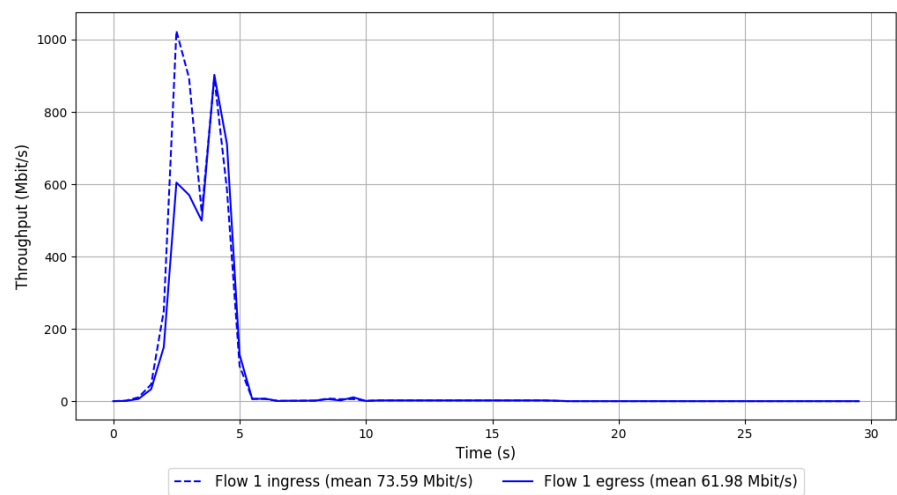
-- Flow 1:

Average throughput: 61.98 Mbit/s

95th percentile per-packet one-way delay: 373.497 ms

Loss rate: 16.36%

Run 10: Report of FillP — Data Link

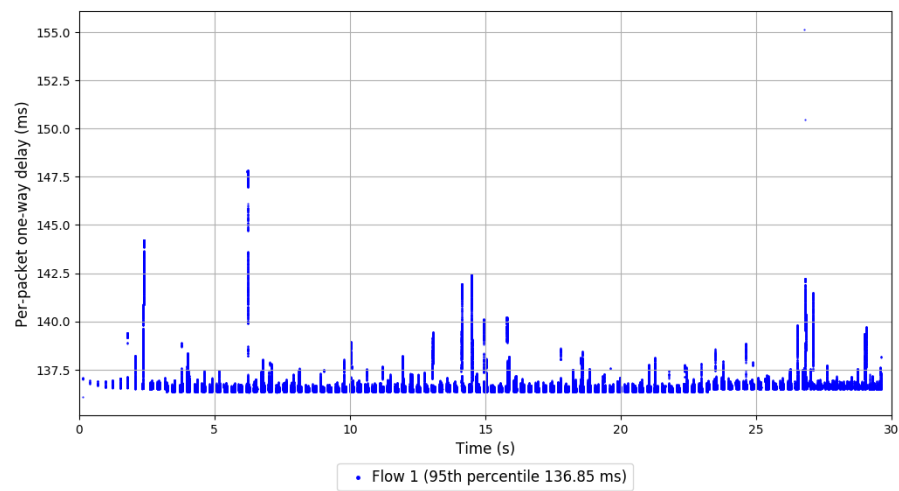
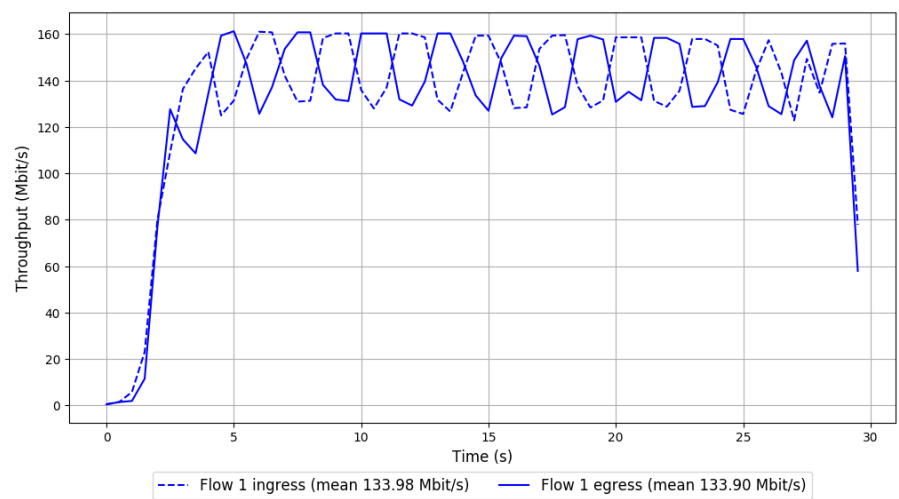


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-10 19:32:36
End at: 2018-04-10 19:33:06

# Below is generated by plot.py at 2018-04-11 01:34:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 133.90 Mbit/s
95th percentile per-packet one-way delay: 136.855 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 133.90 Mbit/s
95th percentile per-packet one-way delay: 136.855 ms
Loss rate: 0.98%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-04-10 19:47:51

End at: 2018-04-10 19:48:21

Below is generated by plot.py at 2018-04-11 01:34:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.33 Mbit/s

95th percentile per-packet one-way delay: 138.186 ms

Loss rate: 0.98%

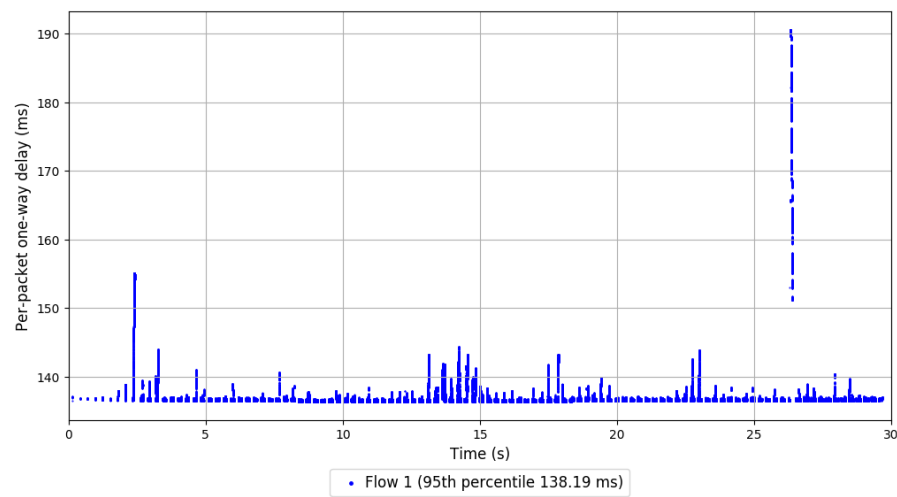
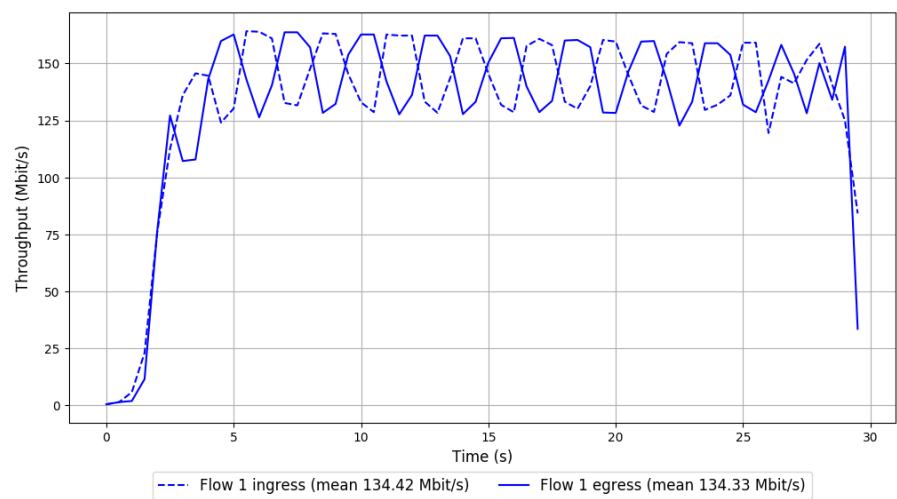
-- Flow 1:

Average throughput: 134.33 Mbit/s

95th percentile per-packet one-way delay: 138.186 ms

Loss rate: 0.98%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-10 20:03:16

End at: 2018-04-10 20:03:47

Below is generated by plot.py at 2018-04-11 01:34:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.60 Mbit/s

95th percentile per-packet one-way delay: 136.656 ms

Loss rate: 0.92%

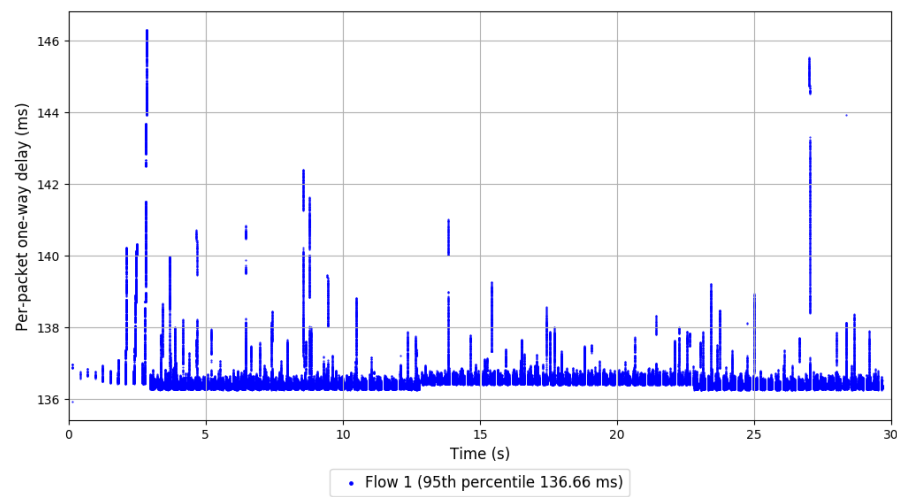
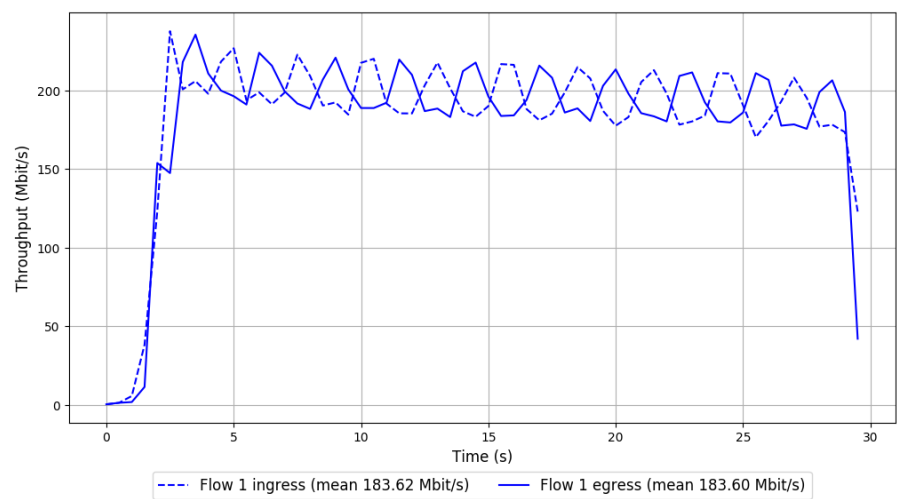
-- Flow 1:

Average throughput: 183.60 Mbit/s

95th percentile per-packet one-way delay: 136.656 ms

Loss rate: 0.92%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-10 20:18:35

End at: 2018-04-10 20:19:05

Below is generated by plot.py at 2018-04-11 01:34:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 133.68 Mbit/s

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

Loss rate: 0.98%

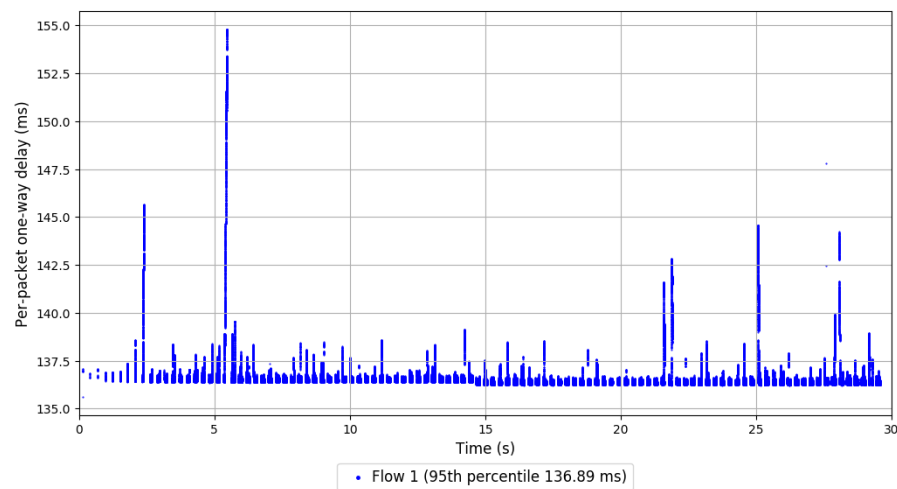
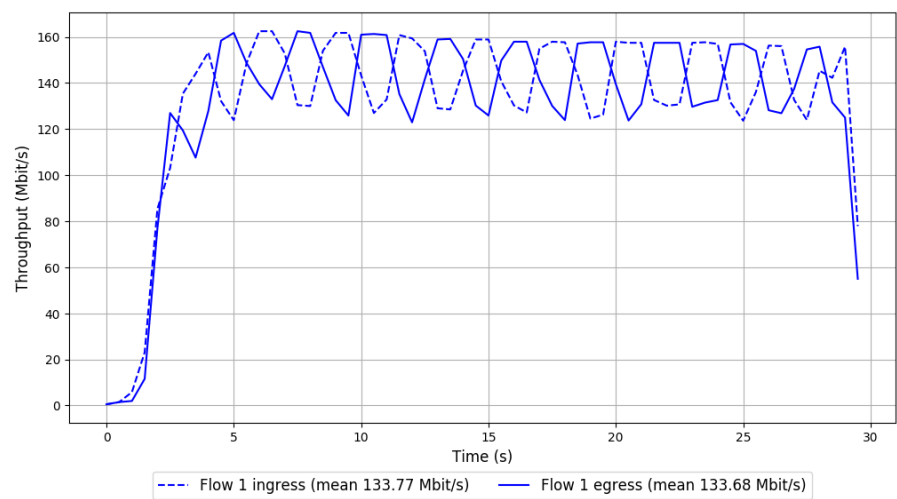
-- Flow 1:

Average throughput: 133.68 Mbit/s

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

Loss rate: 0.98%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-10 20:33:52

End at: 2018-04-10 20:34:22

Below is generated by plot.py at 2018-04-11 01:34:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 135.45 Mbit/s

95th percentile per-packet one-way delay: 137.212 ms

Loss rate: 0.96%

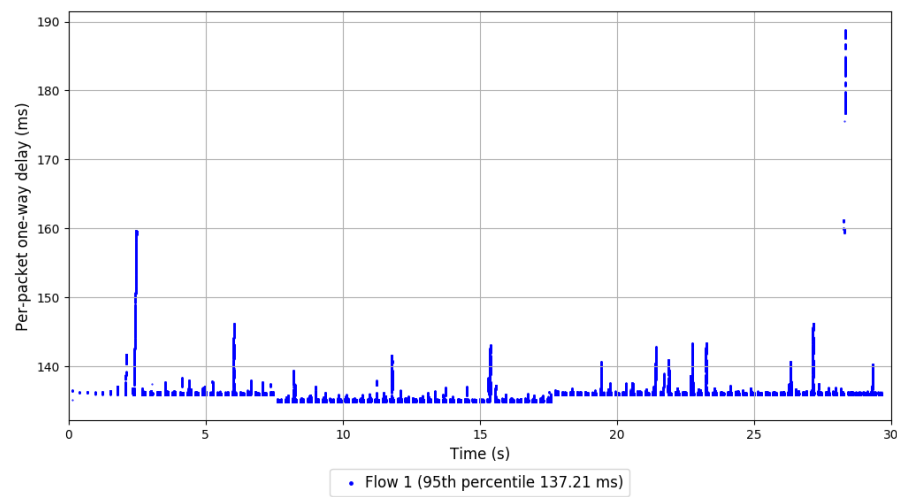
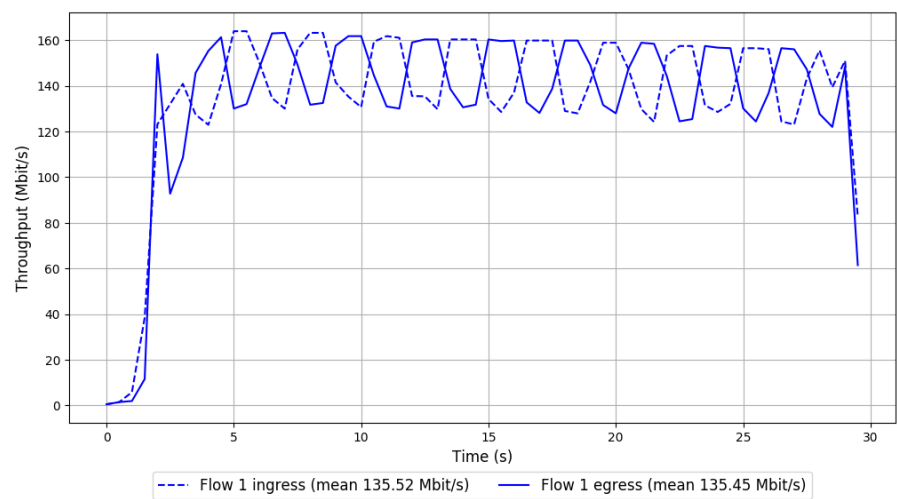
-- Flow 1:

Average throughput: 135.45 Mbit/s

95th percentile per-packet one-way delay: 137.212 ms

Loss rate: 0.96%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-10 20:49:36

End at: 2018-04-10 20:50:06

Below is generated by plot.py at 2018-04-11 01:34:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.15 Mbit/s

95th percentile per-packet one-way delay: 136.170 ms

Loss rate: 0.97%

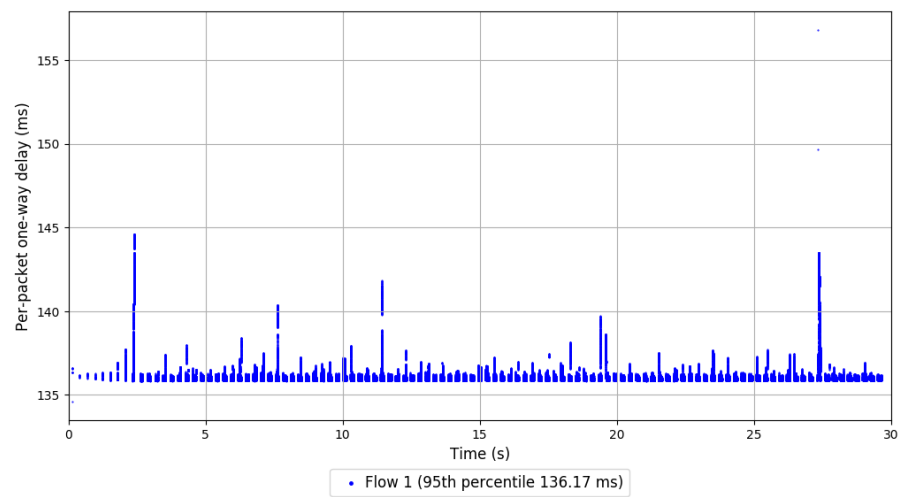
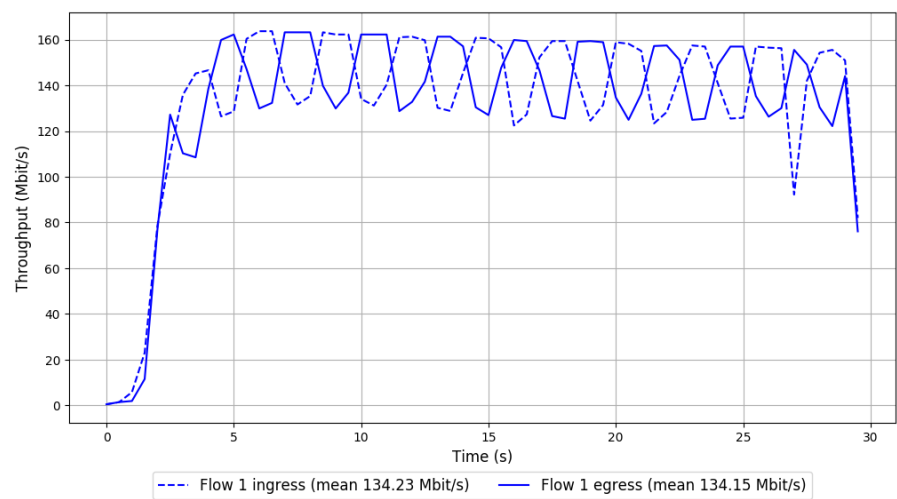
-- Flow 1:

Average throughput: 134.15 Mbit/s

95th percentile per-packet one-way delay: 136.170 ms

Loss rate: 0.97%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-10 21:04:55

End at: 2018-04-10 21:05:25

Below is generated by plot.py at 2018-04-11 01:34:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 136.09 Mbit/s

95th percentile per-packet one-way delay: 137.468 ms

Loss rate: 0.97%

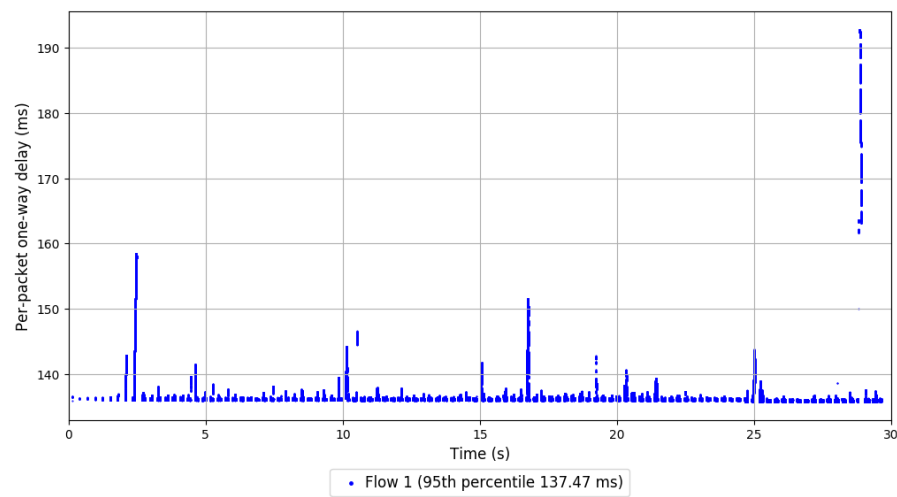
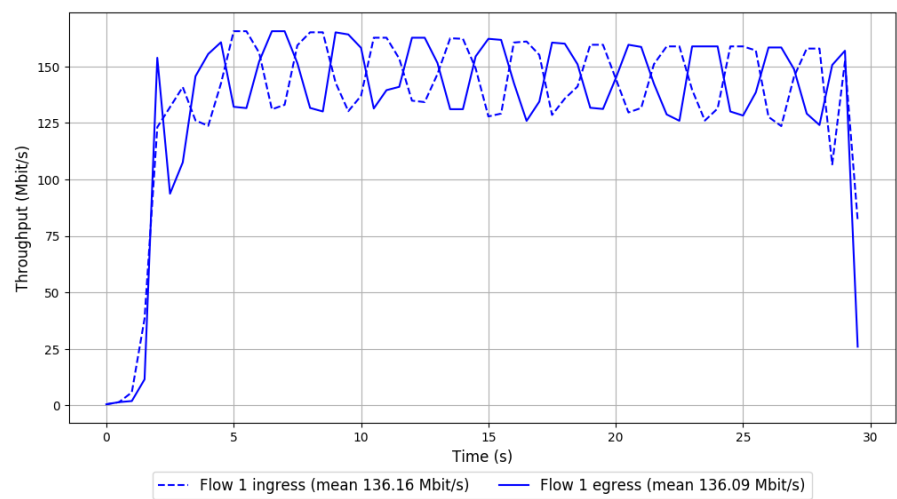
-- Flow 1:

Average throughput: 136.09 Mbit/s

95th percentile per-packet one-way delay: 137.468 ms

Loss rate: 0.97%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-10 21:20:43

End at: 2018-04-10 21:21:13

Below is generated by plot.py at 2018-04-11 01:34:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 136.59 Mbit/s

95th percentile per-packet one-way delay: 136.805 ms

Loss rate: 0.96%

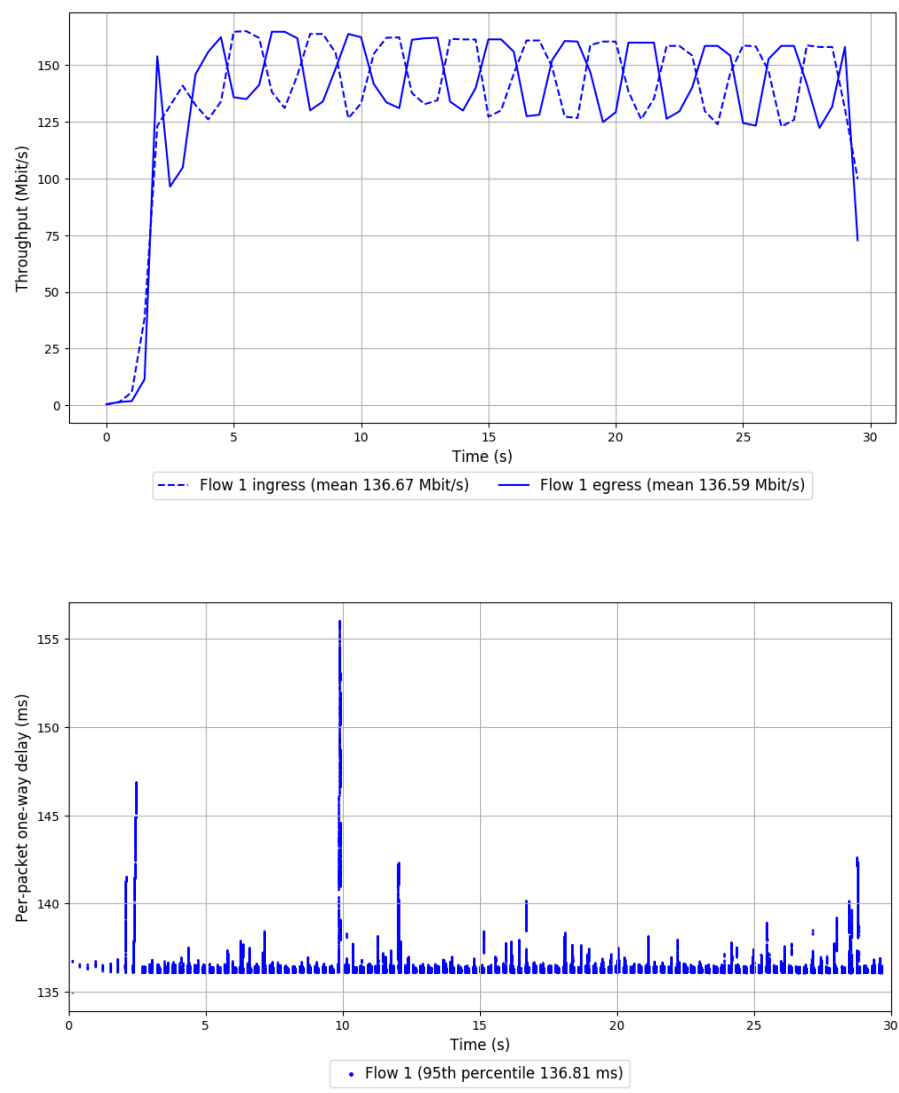
-- Flow 1:

Average throughput: 136.59 Mbit/s

95th percentile per-packet one-way delay: 136.805 ms

Loss rate: 0.96%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-10 21:36:11

End at: 2018-04-10 21:36:41

Below is generated by plot.py at 2018-04-11 01:34:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 136.17 Mbit/s

95th percentile per-packet one-way delay: 136.819 ms

Loss rate: 0.97%

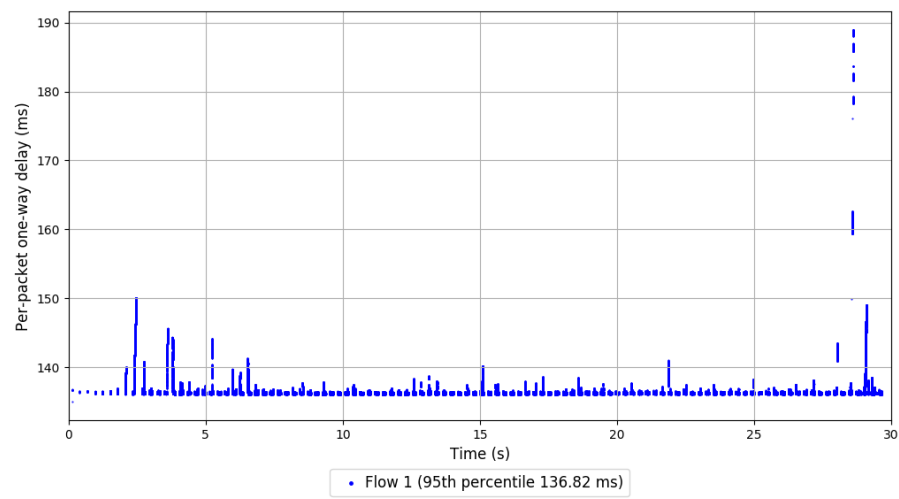
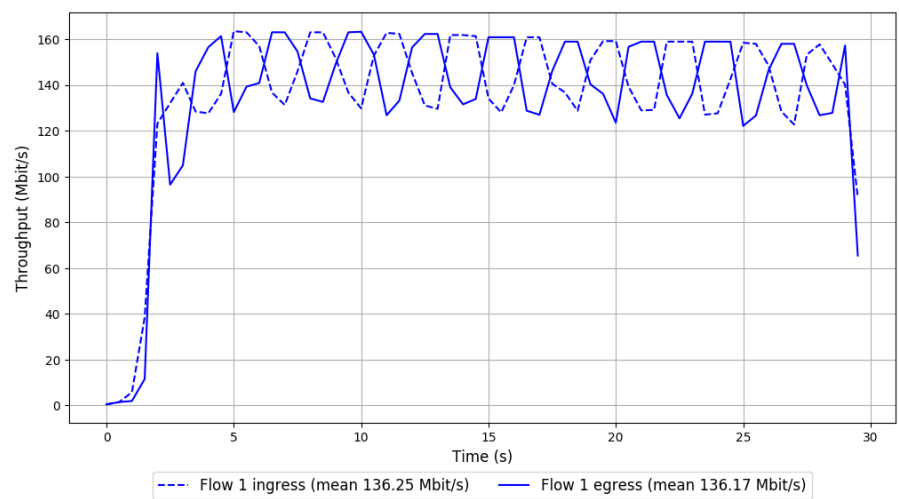
-- Flow 1:

Average throughput: 136.17 Mbit/s

95th percentile per-packet one-way delay: 136.819 ms

Loss rate: 0.97%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-10 21:51:46

End at: 2018-04-10 21:52:16

Below is generated by plot.py at 2018-04-11 01:34:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.59 Mbit/s

95th percentile per-packet one-way delay: 139.385 ms

Loss rate: 0.96%

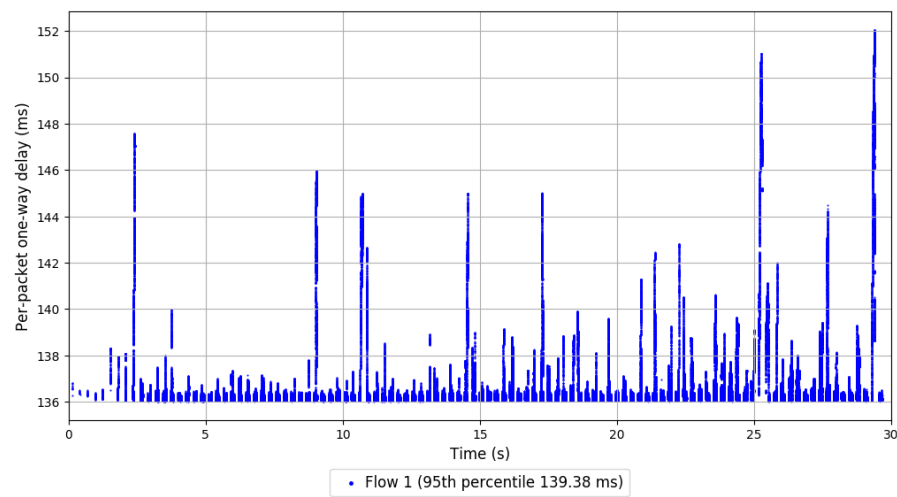
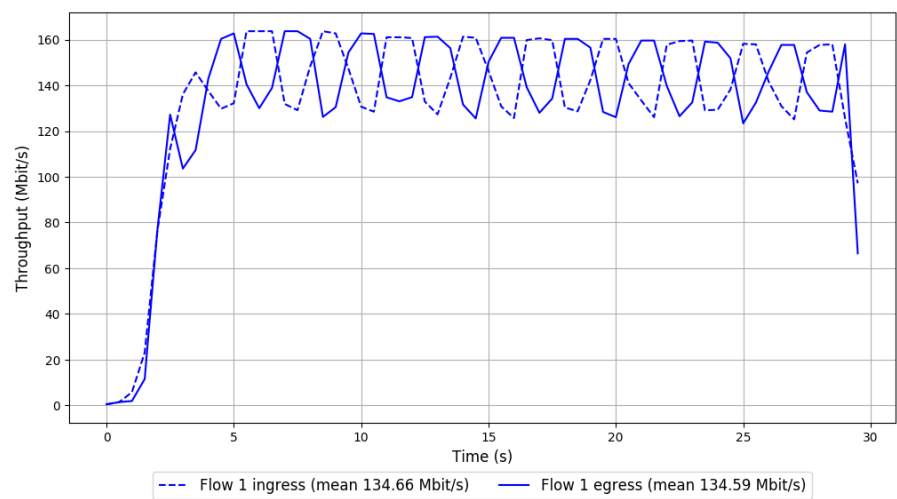
-- Flow 1:

Average throughput: 134.59 Mbit/s

95th percentile per-packet one-way delay: 139.385 ms

Loss rate: 0.96%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-04-10 19:44:04

End at: 2018-04-10 19:44:34

Below is generated by plot.py at 2018-04-11 01:34:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 260.13 Mbit/s

95th percentile per-packet one-way delay: 144.279 ms

Loss rate: 1.35%

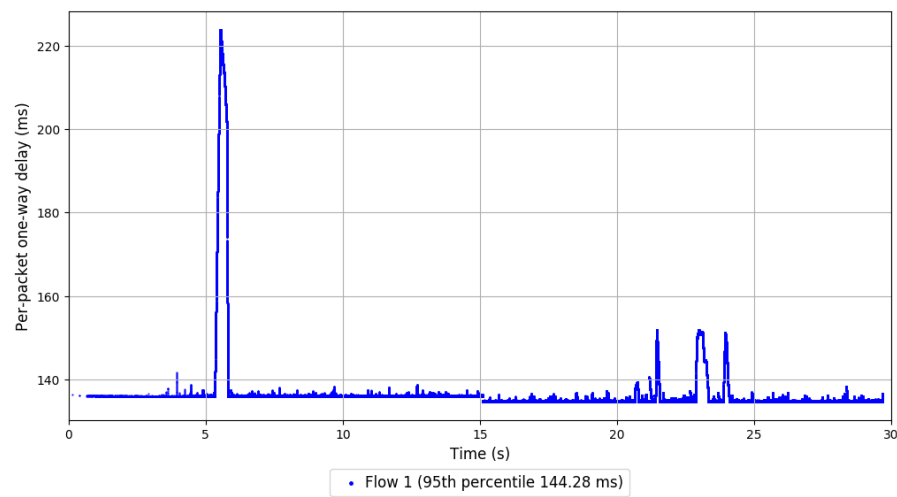
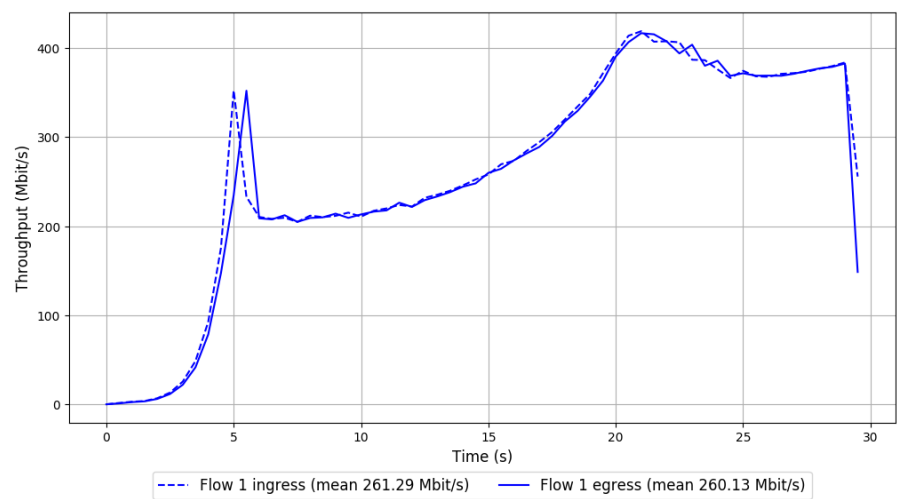
-- Flow 1:

Average throughput: 260.13 Mbit/s

95th percentile per-packet one-way delay: 144.279 ms

Loss rate: 1.35%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-04-10 19:59:28

End at: 2018-04-10 19:59:58

Below is generated by plot.py at 2018-04-11 01:34:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 256.14 Mbit/s

95th percentile per-packet one-way delay: 176.088 ms

Loss rate: 2.52%

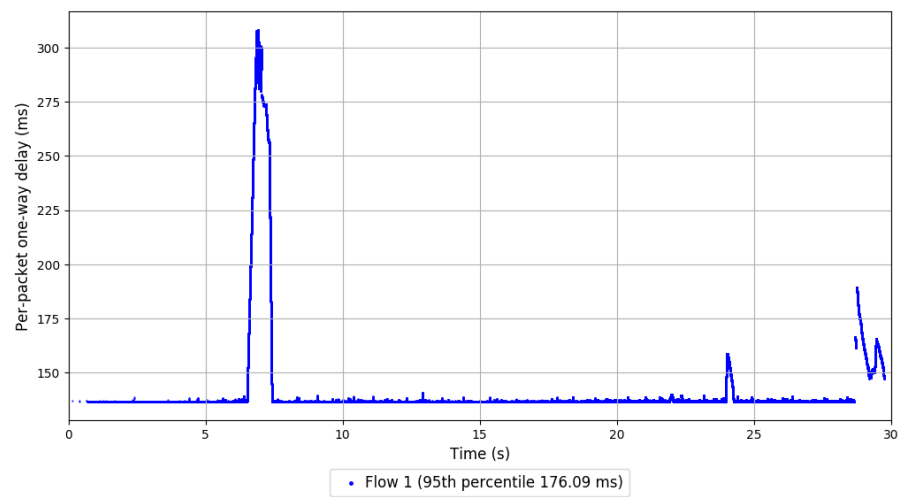
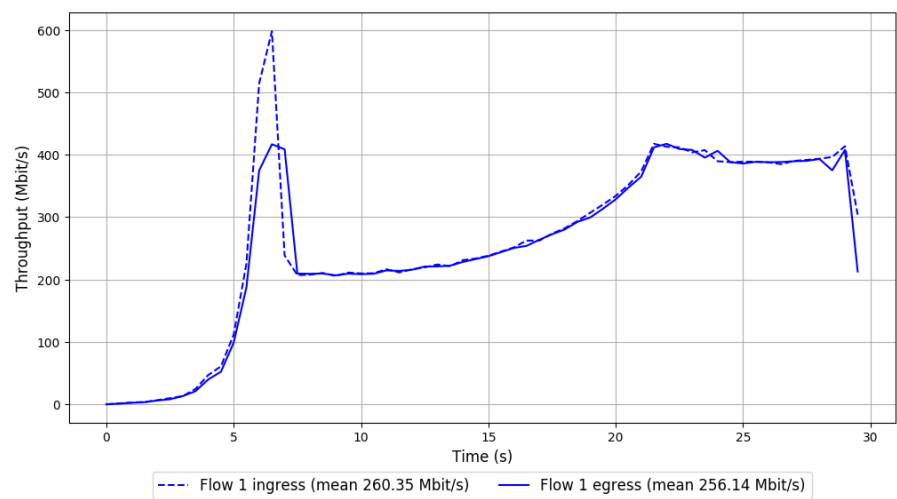
-- Flow 1:

Average throughput: 256.14 Mbit/s

95th percentile per-packet one-way delay: 176.088 ms

Loss rate: 2.52%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-04-10 20:14:50

End at: 2018-04-10 20:15:20

Below is generated by plot.py at 2018-04-11 01:34:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.85 Mbit/s

95th percentile per-packet one-way delay: 214.857 ms

Loss rate: 2.10%

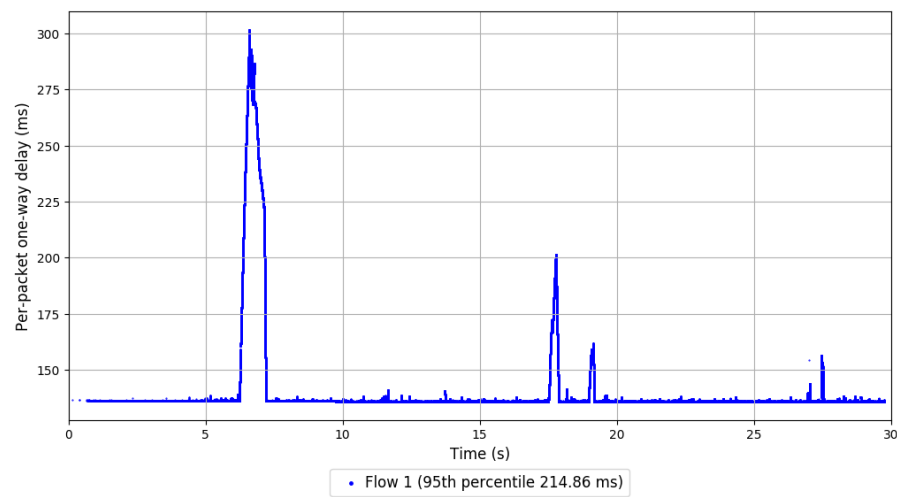
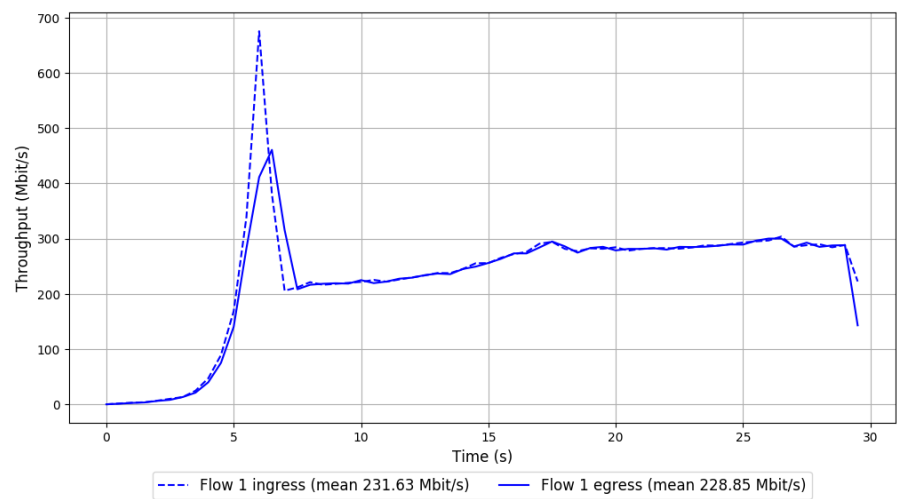
-- Flow 1:

Average throughput: 228.85 Mbit/s

95th percentile per-packet one-way delay: 214.857 ms

Loss rate: 2.10%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-04-10 20:30:04

End at: 2018-04-10 20:30:34

Below is generated by plot.py at 2018-04-11 01:34:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 261.31 Mbit/s

95th percentile per-packet one-way delay: 150.229 ms

Loss rate: 1.48%

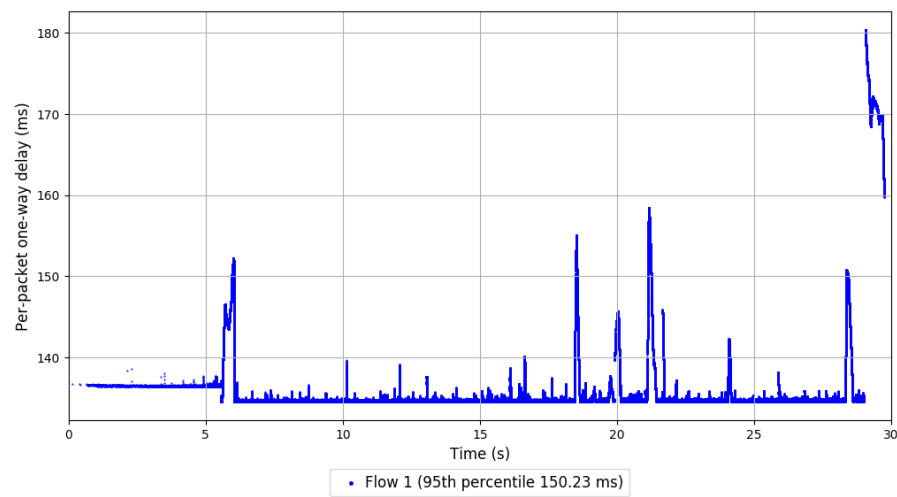
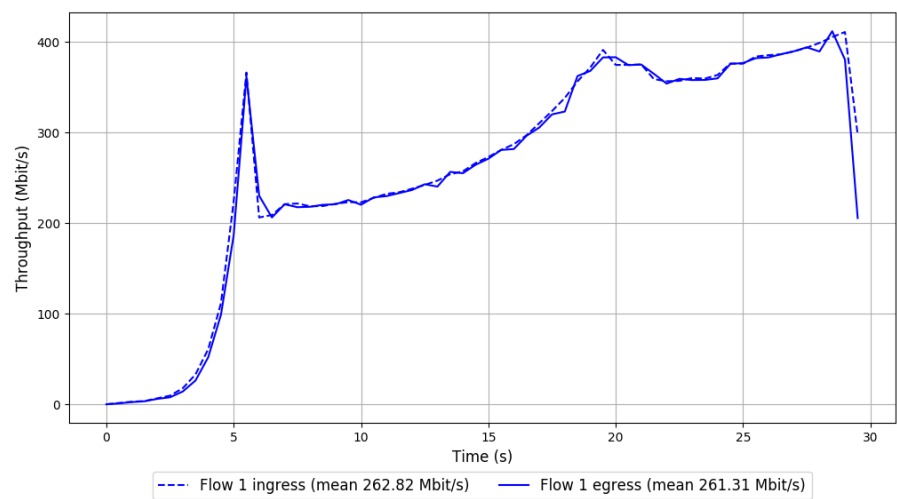
-- Flow 1:

Average throughput: 261.31 Mbit/s

95th percentile per-packet one-way delay: 150.229 ms

Loss rate: 1.48%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-04-10 20:45:50

End at: 2018-04-10 20:46:20

Below is generated by plot.py at 2018-04-11 01:37:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 243.97 Mbit/s

95th percentile per-packet one-way delay: 162.840 ms

Loss rate: 2.21%

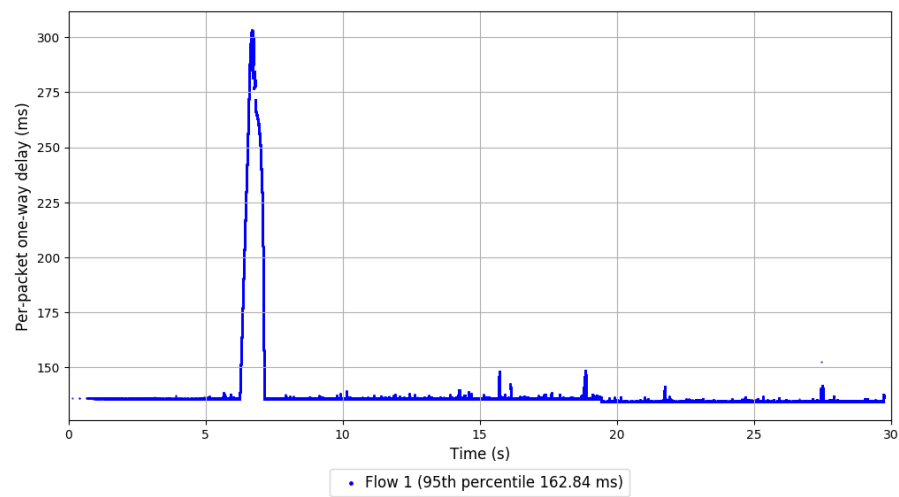
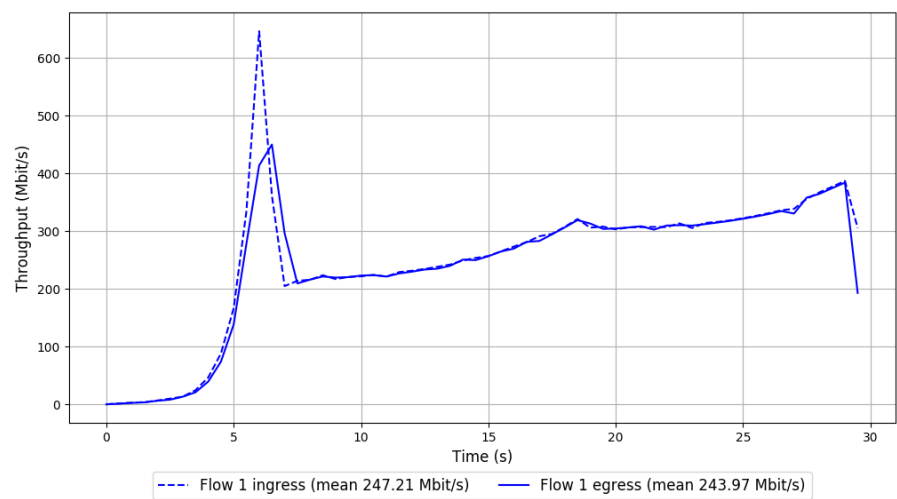
-- Flow 1:

Average throughput: 243.97 Mbit/s

95th percentile per-packet one-way delay: 162.840 ms

Loss rate: 2.21%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-04-10 21:01:06

End at: 2018-04-10 21:01:36

Below is generated by plot.py at 2018-04-11 01:38:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.70 Mbit/s

95th percentile per-packet one-way delay: 144.324 ms

Loss rate: 1.43%

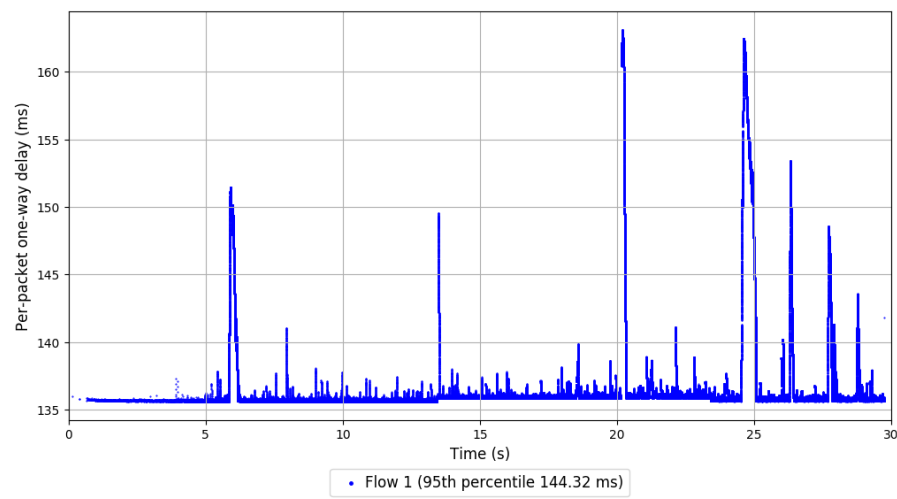
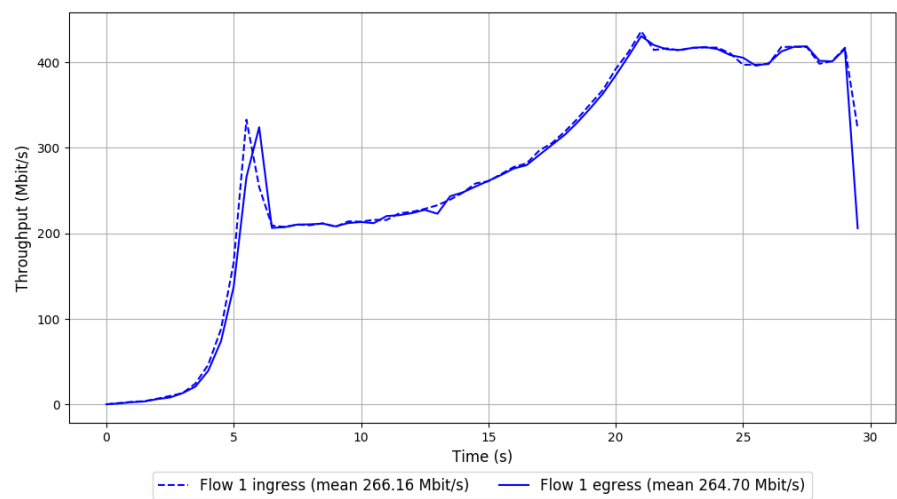
-- Flow 1:

Average throughput: 264.70 Mbit/s

95th percentile per-packet one-way delay: 144.324 ms

Loss rate: 1.43%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-04-10 21:16:50

End at: 2018-04-10 21:17:20

Below is generated by plot.py at 2018-04-11 01:39:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 311.68 Mbit/s

95th percentile per-packet one-way delay: 176.684 ms

Loss rate: 1.19%

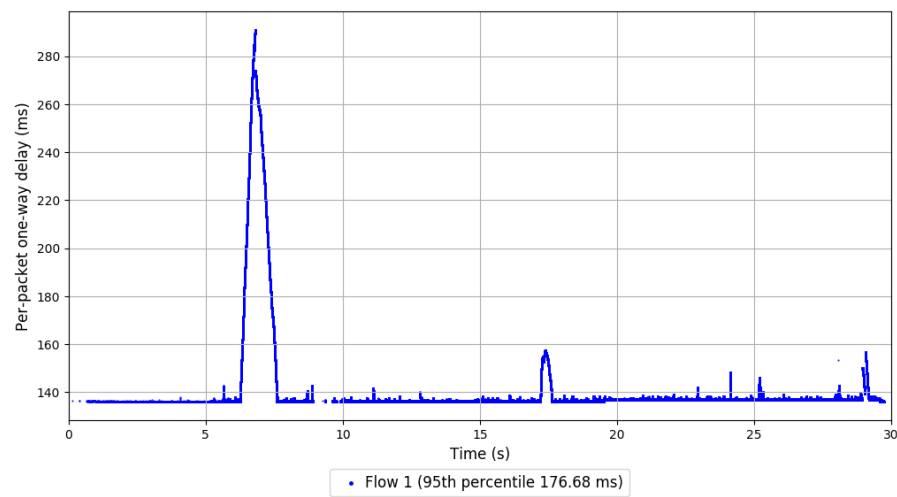
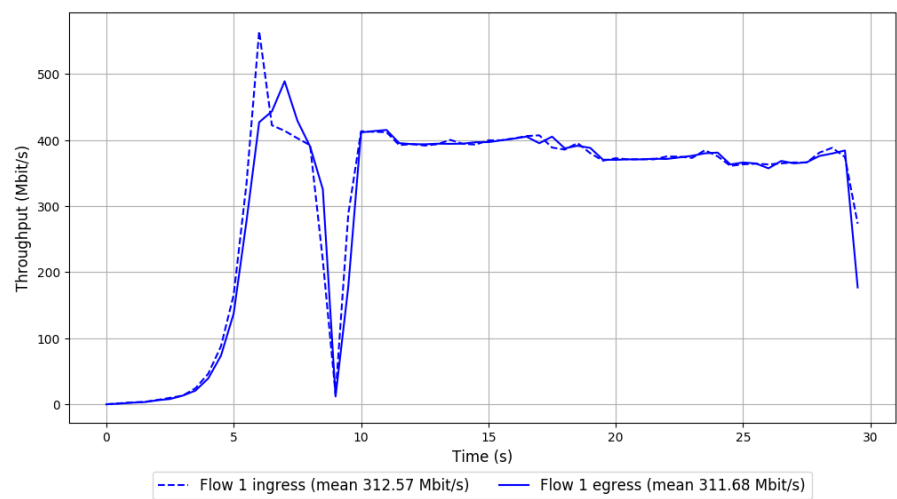
-- Flow 1:

Average throughput: 311.68 Mbit/s

95th percentile per-packet one-way delay: 176.684 ms

Loss rate: 1.19%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-04-10 21:32:23

End at: 2018-04-10 21:32:53

Below is generated by plot.py at 2018-04-11 01:39:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.84 Mbit/s

95th percentile per-packet one-way delay: 188.462 ms

Loss rate: 2.08%

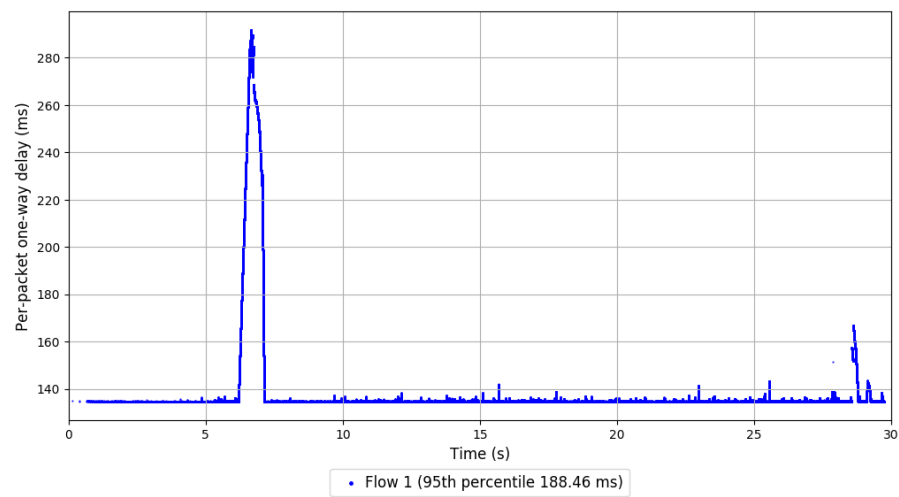
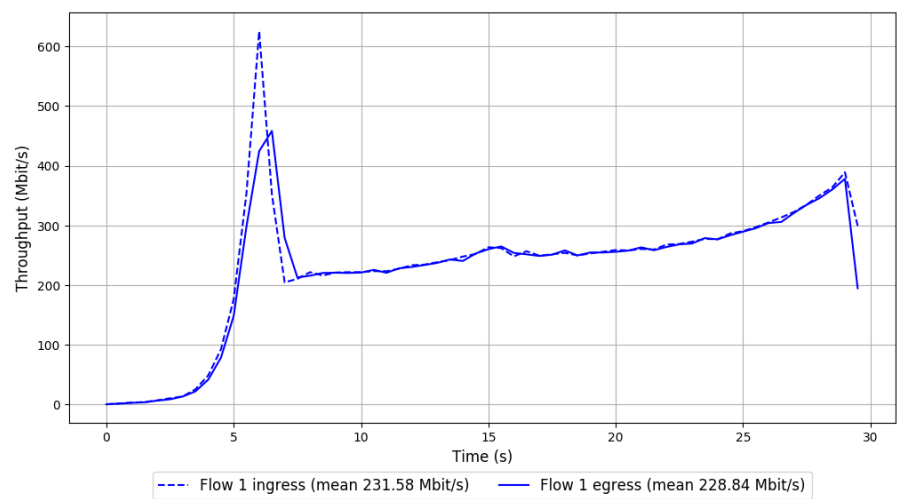
-- Flow 1:

Average throughput: 228.84 Mbit/s

95th percentile per-packet one-way delay: 188.462 ms

Loss rate: 2.08%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-04-10 21:48:02

End at: 2018-04-10 21:48:32

Below is generated by plot.py at 2018-04-11 01:39:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 261.48 Mbit/s

95th percentile per-packet one-way delay: 157.196 ms

Loss rate: 1.08%

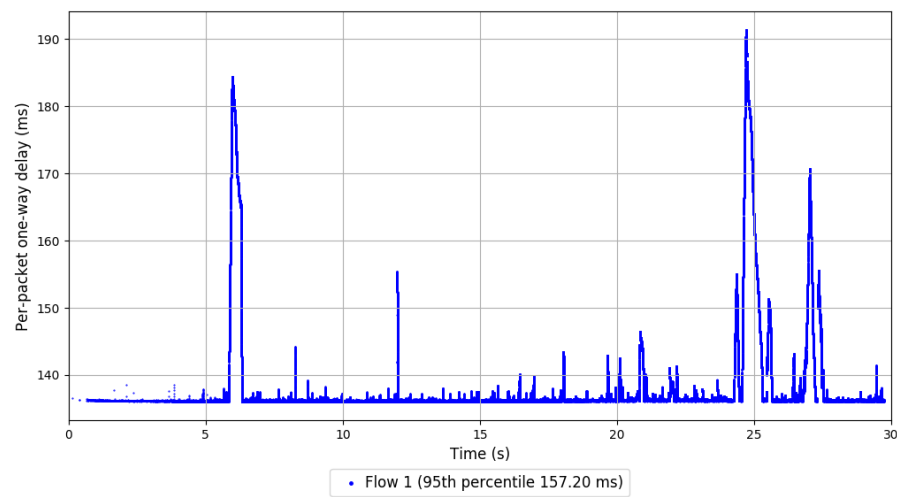
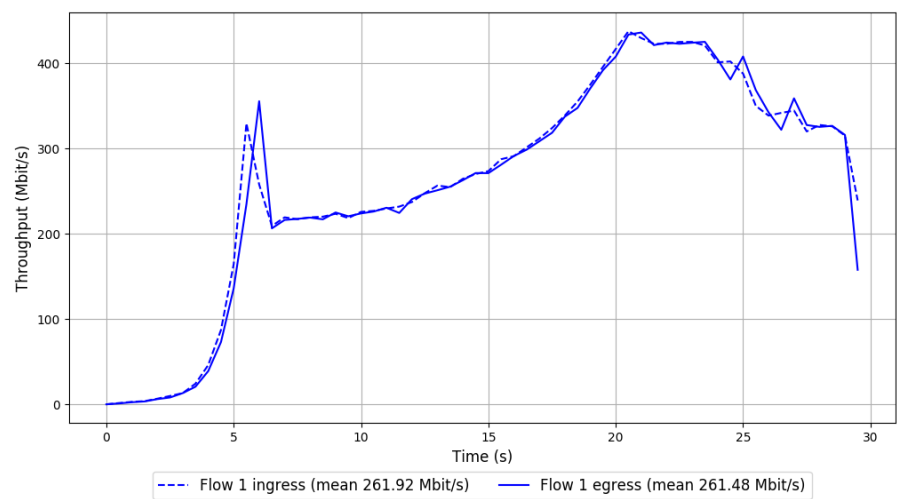
-- Flow 1:

Average throughput: 261.48 Mbit/s

95th percentile per-packet one-way delay: 157.196 ms

Loss rate: 1.08%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-04-10 22:03:28

End at: 2018-04-10 22:03:58

Below is generated by plot.py at 2018-04-11 01:39:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 267.13 Mbit/s

95th percentile per-packet one-way delay: 170.387 ms

Loss rate: 1.79%

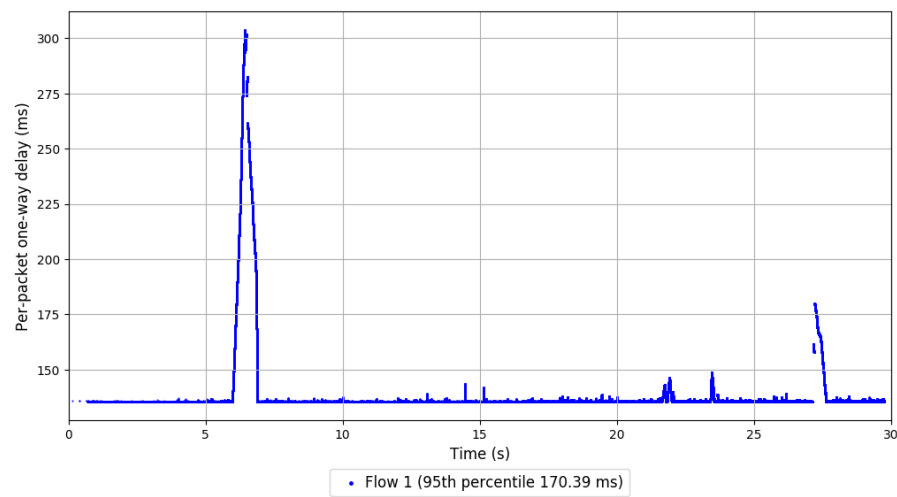
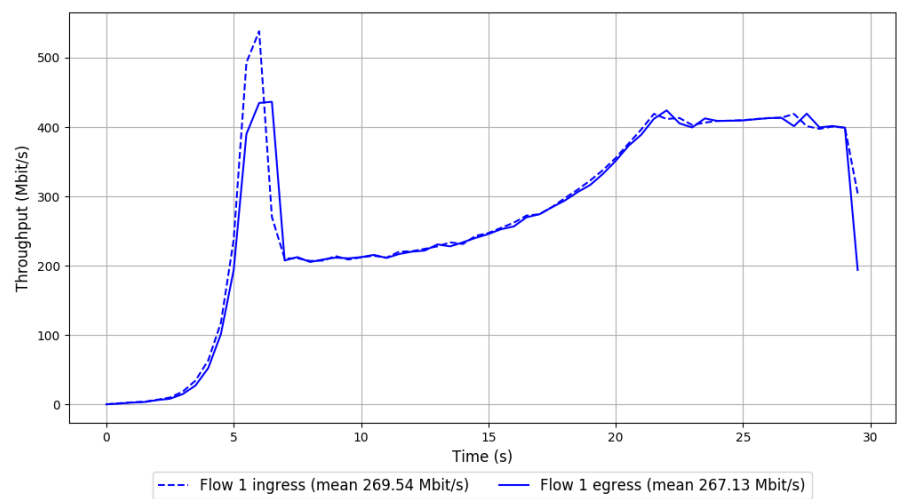
-- Flow 1:

Average throughput: 267.13 Mbit/s

95th percentile per-packet one-way delay: 170.387 ms

Loss rate: 1.79%

Run 10: Report of Vivace-latency — Data Link

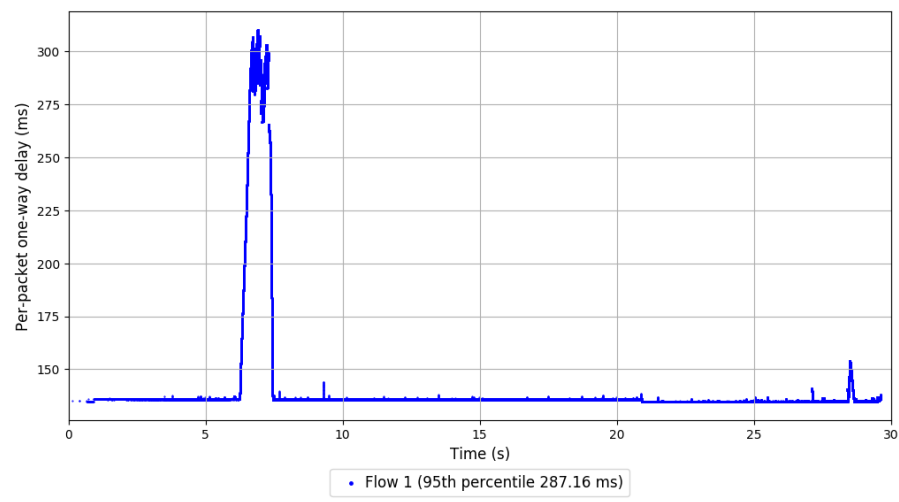
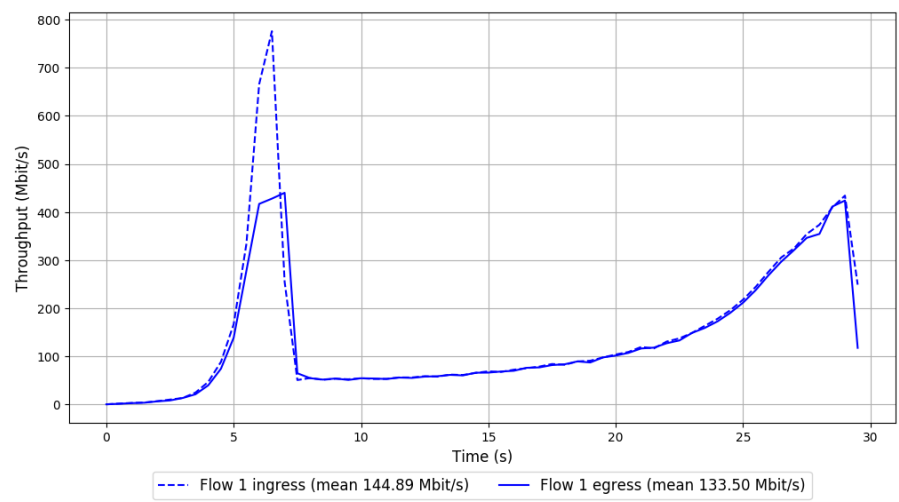


```
Run 1: Statistics of Vivace-loss

Start at: 2018-04-10 19:33:28
End at: 2018-04-10 19:33:58

# Below is generated by plot.py at 2018-04-11 01:39:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 133.50 Mbit/s
95th percentile per-packet one-way delay: 287.158 ms
Loss rate: 8.70%
-- Flow 1:
Average throughput: 133.50 Mbit/s
95th percentile per-packet one-way delay: 287.158 ms
Loss rate: 8.70%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-04-10 19:48:43

End at: 2018-04-10 19:49:13

Below is generated by plot.py at 2018-04-11 01:39:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 163.05 Mbit/s

95th percentile per-packet one-way delay: 270.933 ms

Loss rate: 5.54%

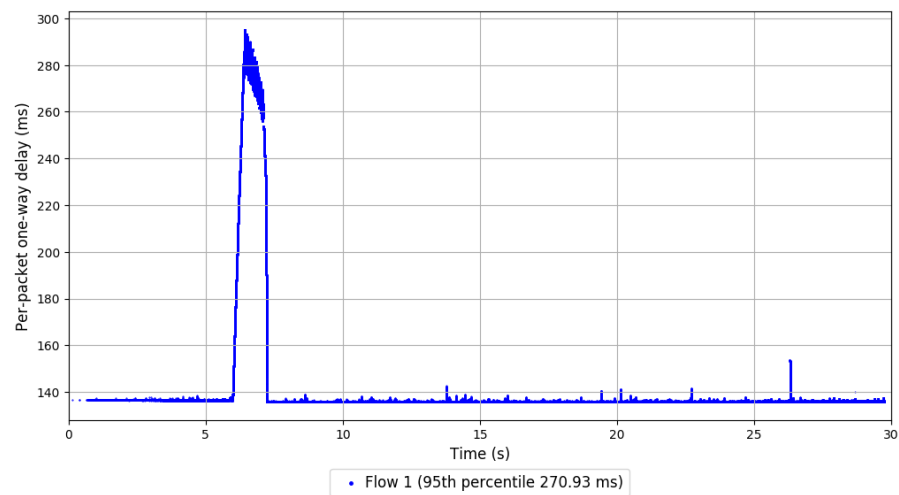
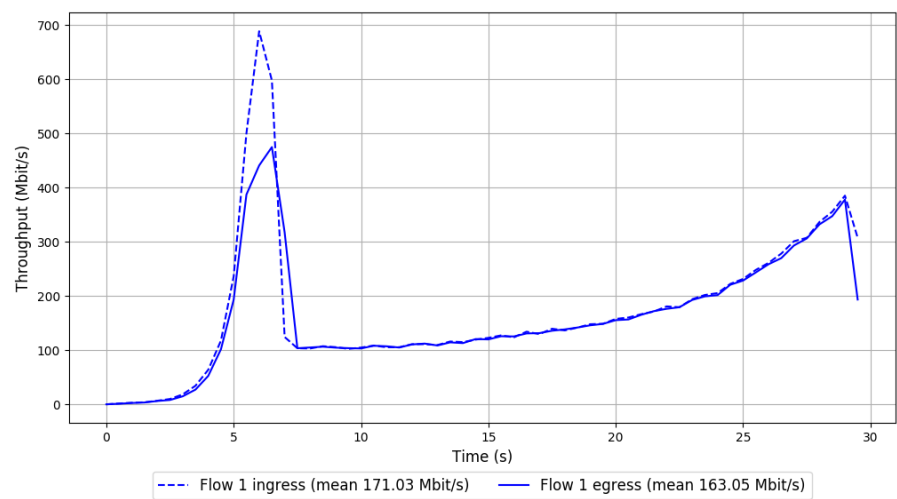
-- Flow 1:

Average throughput: 163.05 Mbit/s

95th percentile per-packet one-way delay: 270.933 ms

Loss rate: 5.54%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-04-10 20:04:12

End at: 2018-04-10 20:04:42

Below is generated by plot.py at 2018-04-11 01:40:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.81 Mbit/s

95th percentile per-packet one-way delay: 278.222 ms

Loss rate: 5.98%

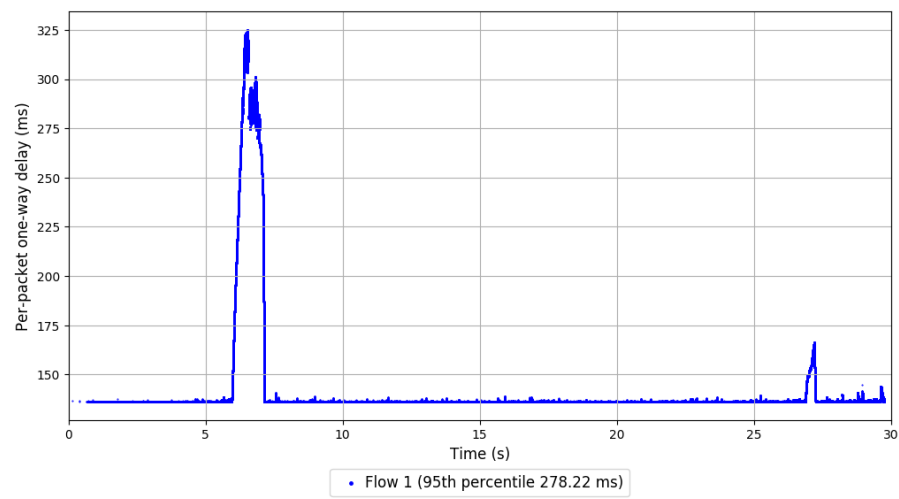
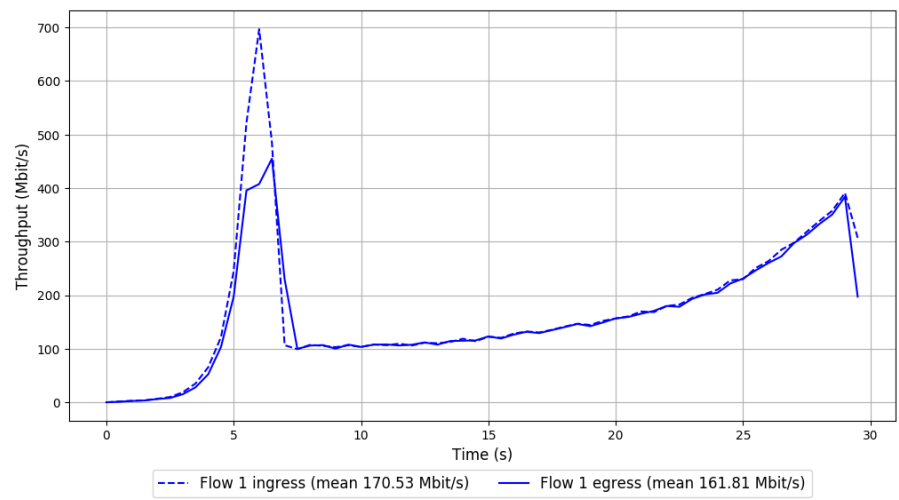
-- Flow 1:

Average throughput: 161.81 Mbit/s

95th percentile per-packet one-way delay: 278.222 ms

Loss rate: 5.98%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-04-10 20:19:27

End at: 2018-04-10 20:19:57

Below is generated by plot.py at 2018-04-11 01:40:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.20 Mbit/s

95th percentile per-packet one-way delay: 306.709 ms

Loss rate: 11.27%

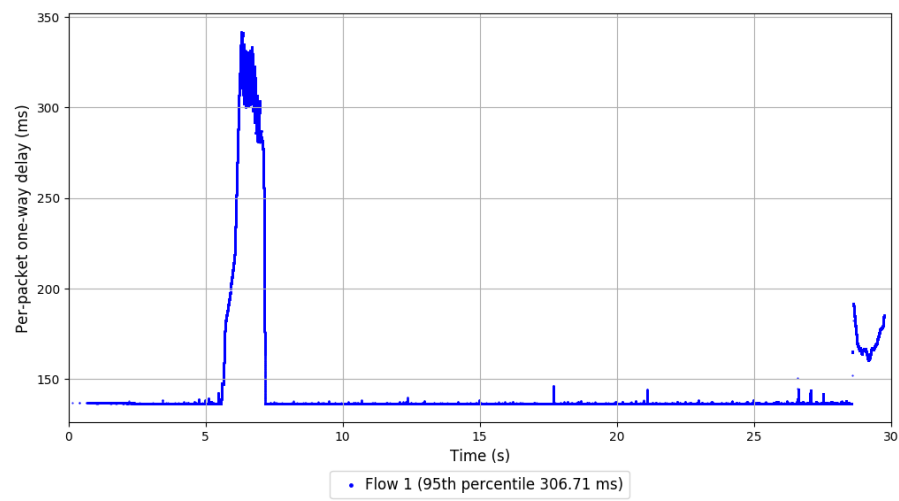
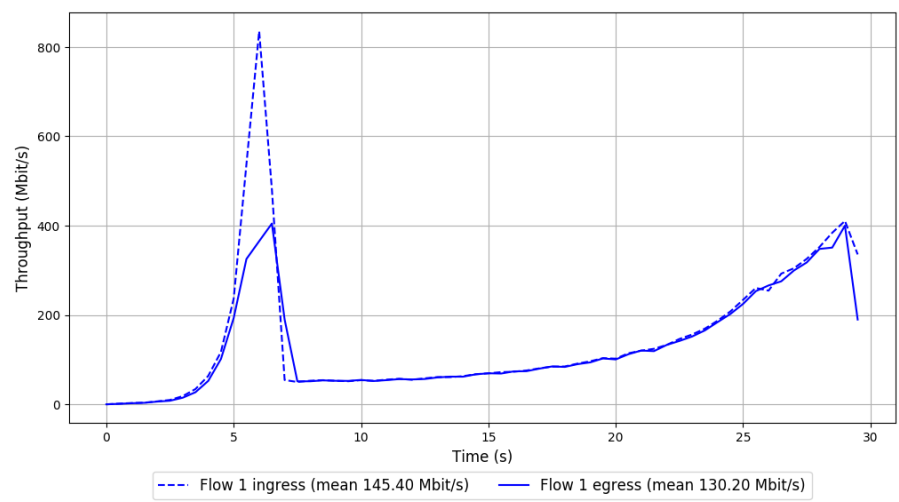
-- Flow 1:

Average throughput: 130.20 Mbit/s

95th percentile per-packet one-way delay: 306.709 ms

Loss rate: 11.27%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-04-10 20:34:44

End at: 2018-04-10 20:35:14

Below is generated by plot.py at 2018-04-11 01:40:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.46 Mbit/s

95th percentile per-packet one-way delay: 288.143 ms

Loss rate: 10.77%

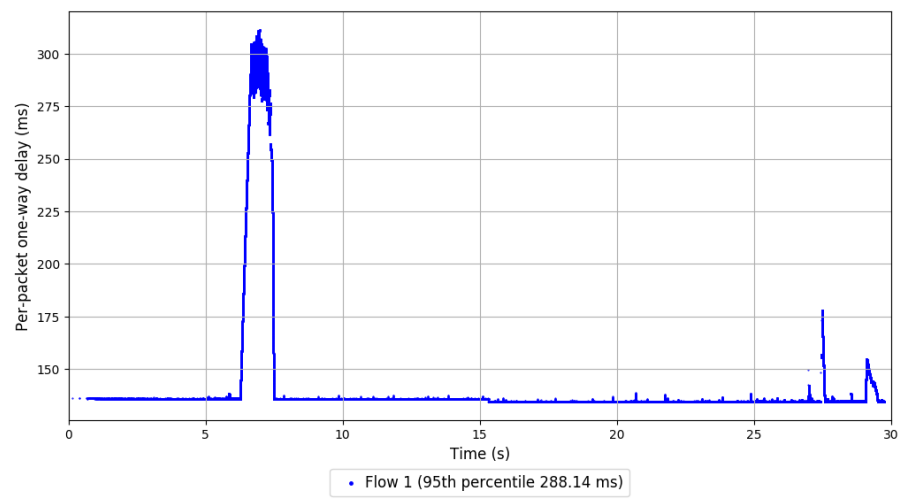
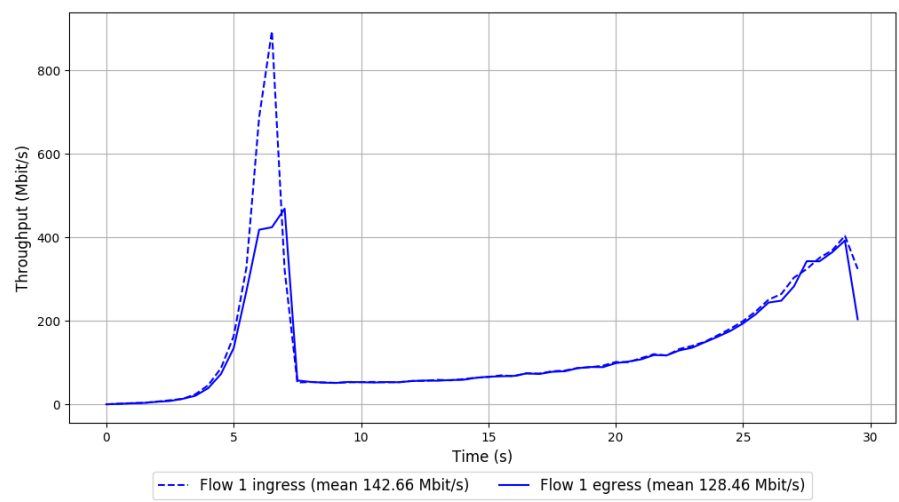
-- Flow 1:

Average throughput: 128.46 Mbit/s

95th percentile per-packet one-way delay: 288.143 ms

Loss rate: 10.77%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-04-10 20:50:28

End at: 2018-04-10 20:50:58

Below is generated by plot.py at 2018-04-11 01:40:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 136.48 Mbit/s

95th percentile per-packet one-way delay: 276.305 ms

Loss rate: 7.61%

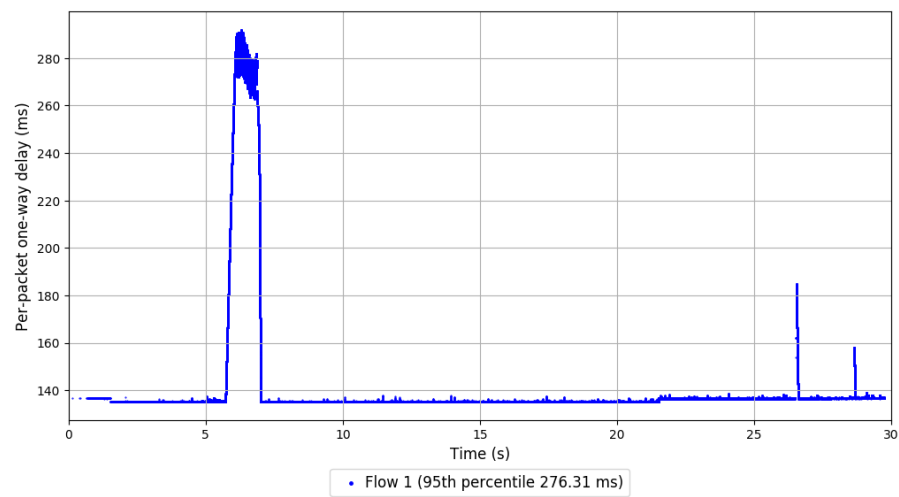
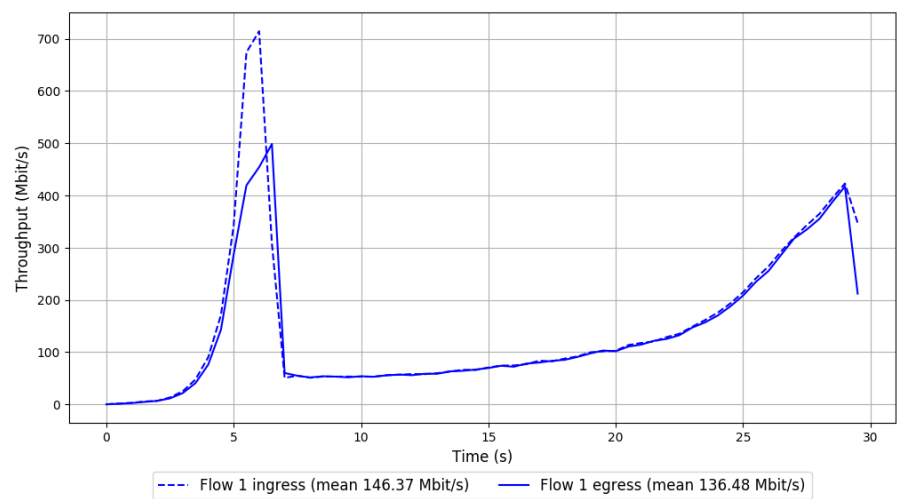
-- Flow 1:

Average throughput: 136.48 Mbit/s

95th percentile per-packet one-way delay: 276.305 ms

Loss rate: 7.61%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-04-10 21:05:47

End at: 2018-04-10 21:06:17

Below is generated by plot.py at 2018-04-11 01:41:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 133.74 Mbit/s

95th percentile per-packet one-way delay: 292.018 ms

Loss rate: 10.01%

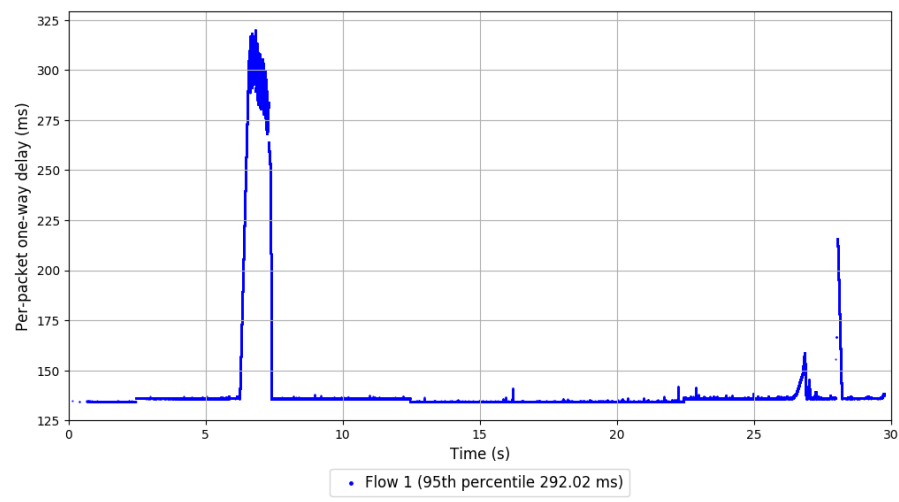
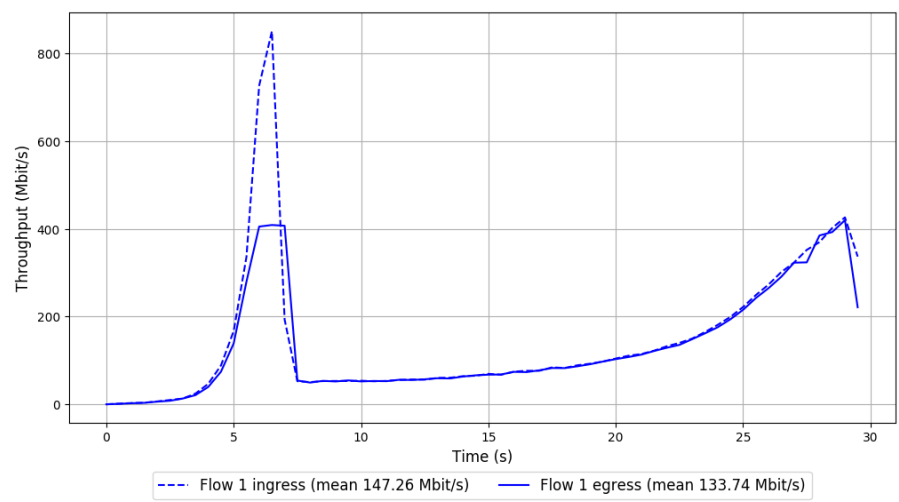
-- Flow 1:

Average throughput: 133.74 Mbit/s

95th percentile per-packet one-way delay: 292.018 ms

Loss rate: 10.01%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-04-10 21:21:35

End at: 2018-04-10 21:22:05

Below is generated by plot.py at 2018-04-11 01:41:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.77 Mbit/s

95th percentile per-packet one-way delay: 289.792 ms

Loss rate: 8.39%

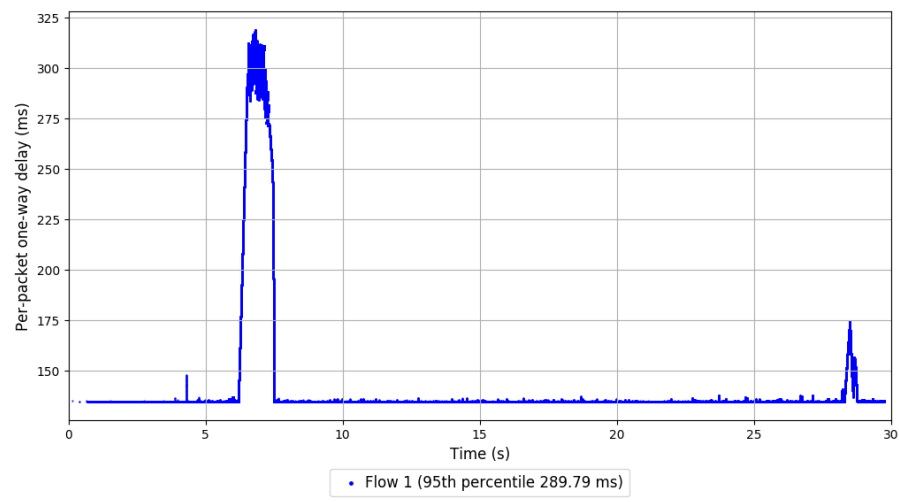
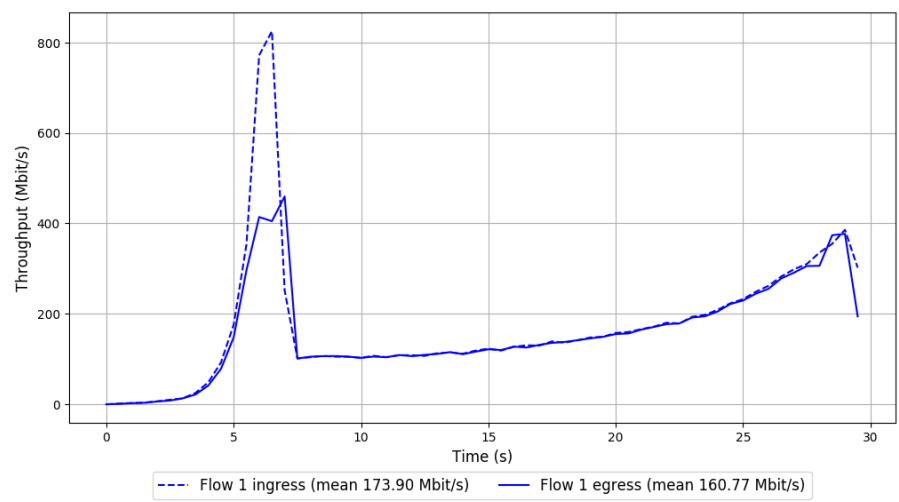
-- Flow 1:

Average throughput: 160.77 Mbit/s

95th percentile per-packet one-way delay: 289.792 ms

Loss rate: 8.39%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-04-10 21:37:03

End at: 2018-04-10 21:37:33

Below is generated by plot.py at 2018-04-11 01:43:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 246.00 Mbit/s

95th percentile per-packet one-way delay: 296.482 ms

Loss rate: 6.12%

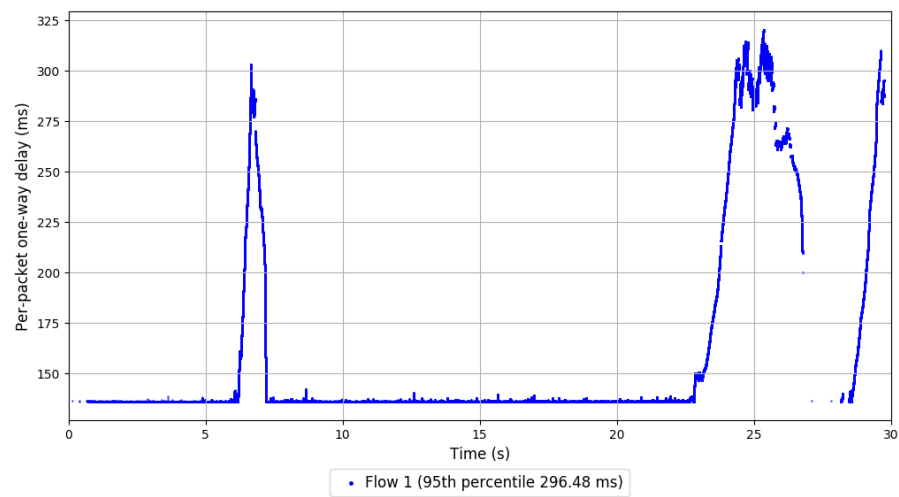
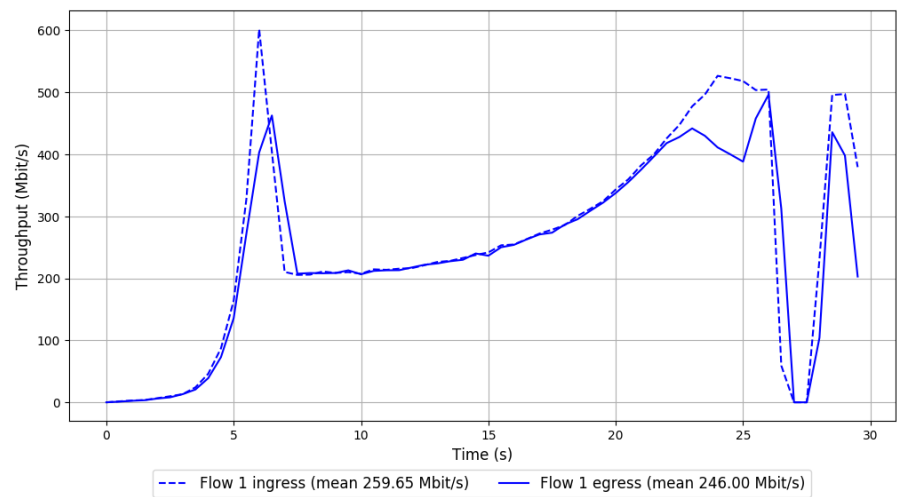
-- Flow 1:

Average throughput: 246.00 Mbit/s

95th percentile per-packet one-way delay: 296.482 ms

Loss rate: 6.12%

Run 9: Report of Vivace-loss — Data Link

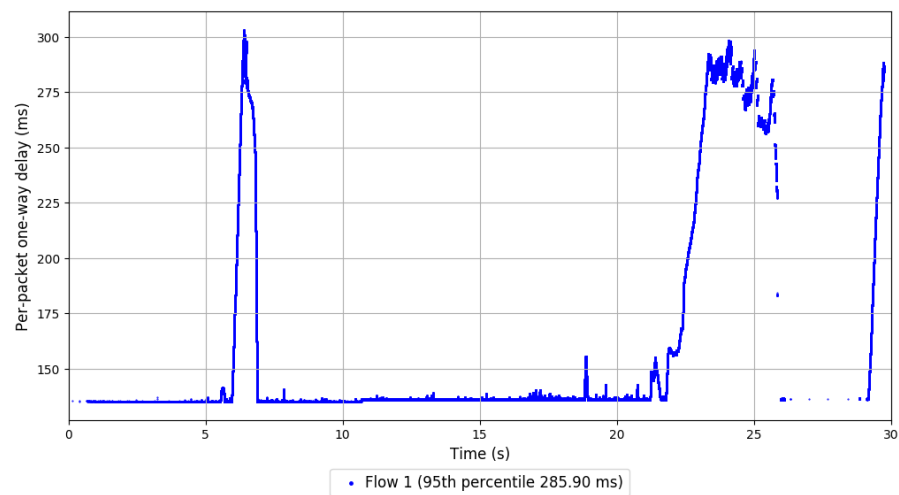
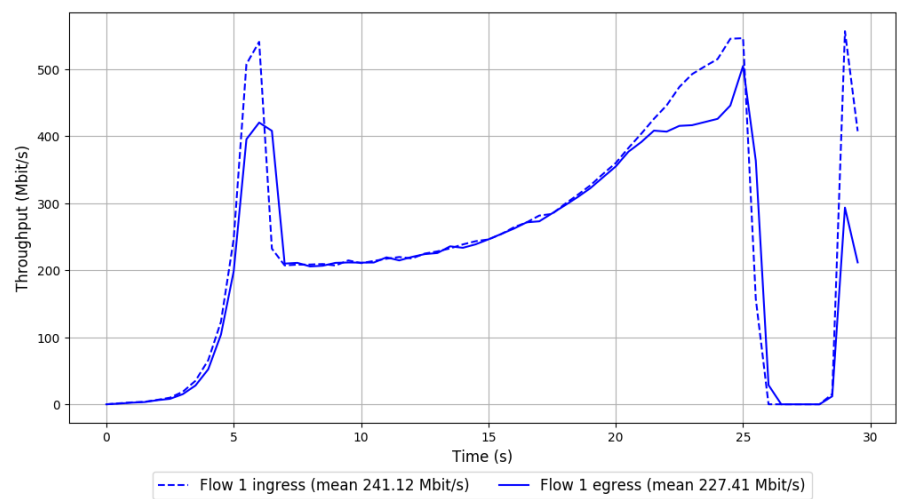


```
Run 10: Statistics of Vivace-loss

Start at: 2018-04-10 21:52:39
End at: 2018-04-10 21:53:09

# Below is generated by plot.py at 2018-04-11 01:43:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 227.41 Mbit/s
95th percentile per-packet one-way delay: 285.898 ms
Loss rate: 6.54%
-- Flow 1:
Average throughput: 227.41 Mbit/s
95th percentile per-packet one-way delay: 285.898 ms
Loss rate: 6.54%
```

Run 10: Report of Vivace-loss — Data Link

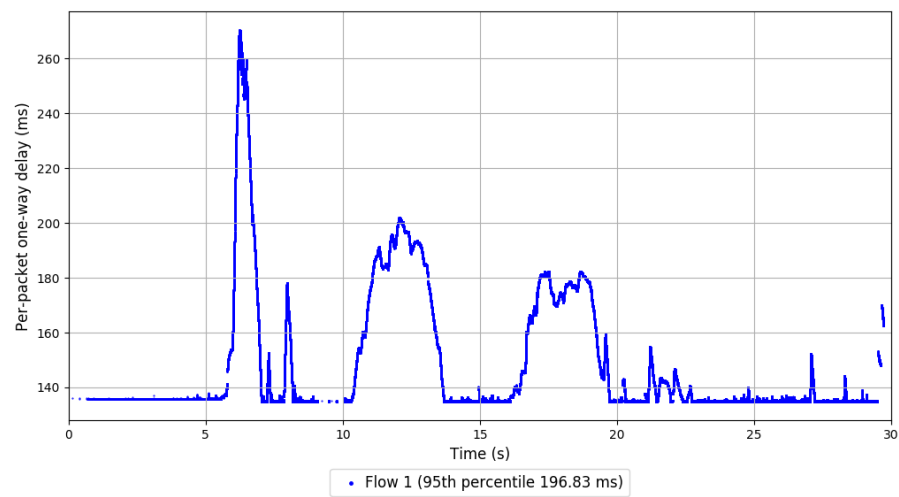
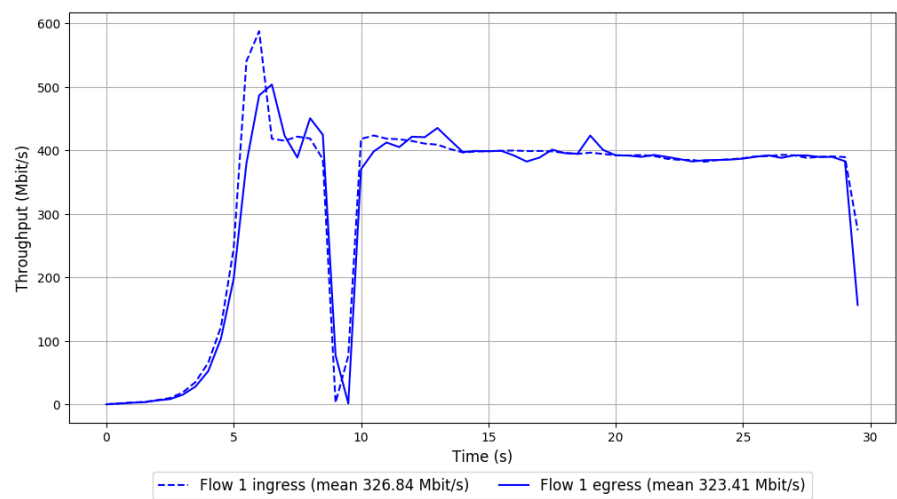


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-04-10 19:36:03
End at: 2018-04-10 19:36:33

# Below is generated by plot.py at 2018-04-11 01:45:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 323.41 Mbit/s
95th percentile per-packet one-way delay: 196.828 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 323.41 Mbit/s
95th percentile per-packet one-way delay: 196.828 ms
Loss rate: 1.95%
```


Run 1: Report of Vivace-LTE — Data Link

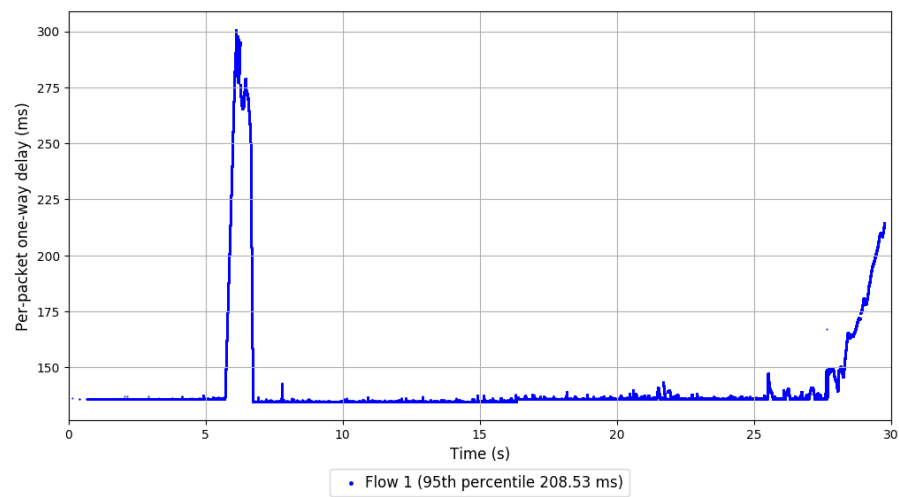
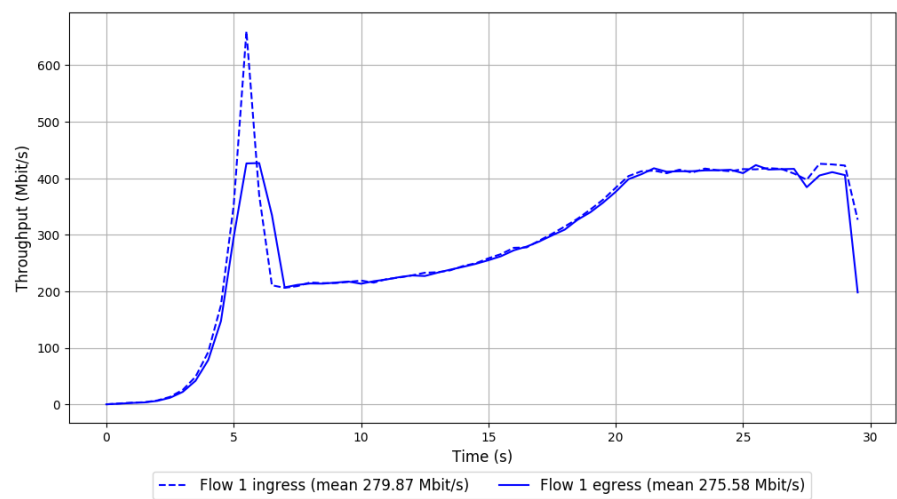


```
Run 2: Statistics of Vivace-LTE

Start at: 2018-04-10 19:51:23
End at: 2018-04-10 19:51:53

# Below is generated by plot.py at 2018-04-11 01:45:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 275.58 Mbit/s
95th percentile per-packet one-way delay: 208.532 ms
Loss rate: 2.43%
-- Flow 1:
Average throughput: 275.58 Mbit/s
95th percentile per-packet one-way delay: 208.532 ms
Loss rate: 2.43%
```

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-04-10 20:06:49

End at: 2018-04-10 20:07:19

Below is generated by plot.py at 2018-04-11 01:45:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 275.59 Mbit/s

95th percentile per-packet one-way delay: 277.835 ms

Loss rate: 2.06%

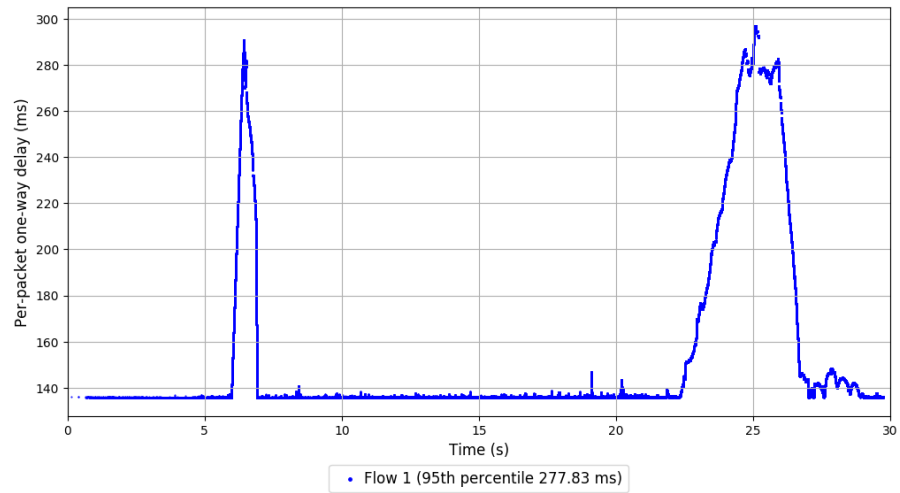
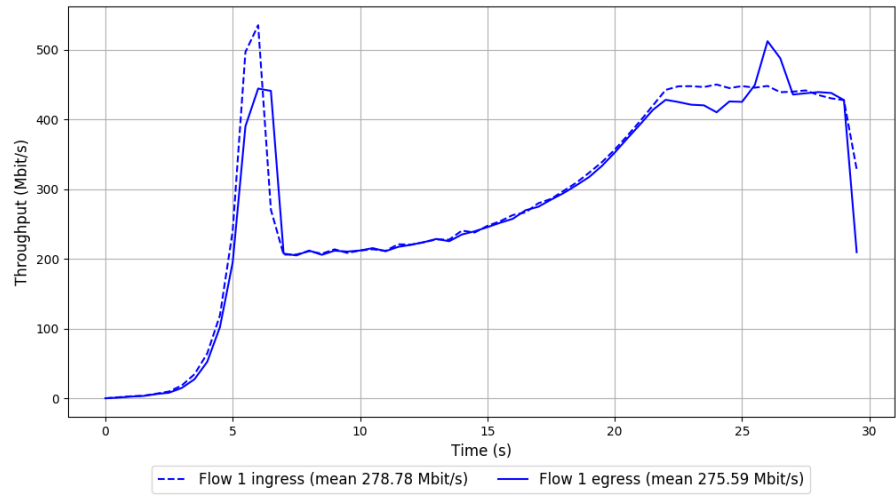
-- Flow 1:

Average throughput: 275.59 Mbit/s

95th percentile per-packet one-way delay: 277.835 ms

Loss rate: 2.06%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-04-10 20:22:02

End at: 2018-04-10 20:22:32

Below is generated by plot.py at 2018-04-11 01:45:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 263.41 Mbit/s

95th percentile per-packet one-way delay: 280.962 ms

Loss rate: 2.04%

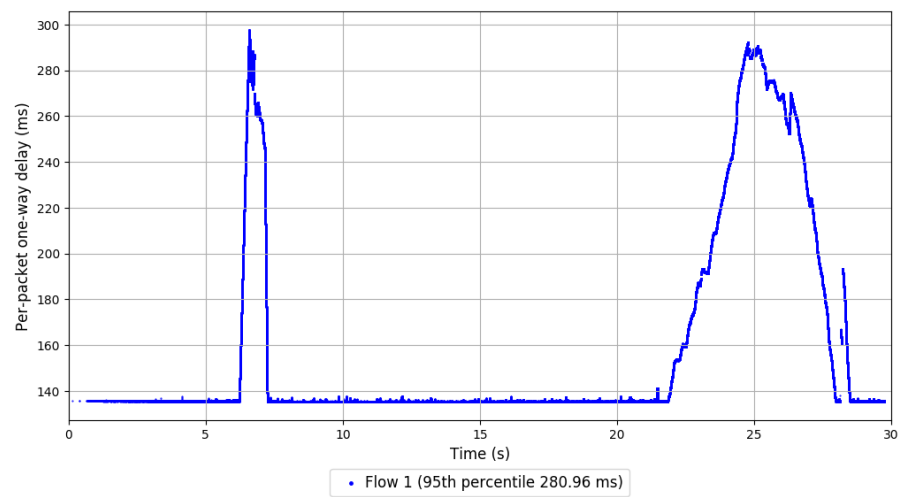
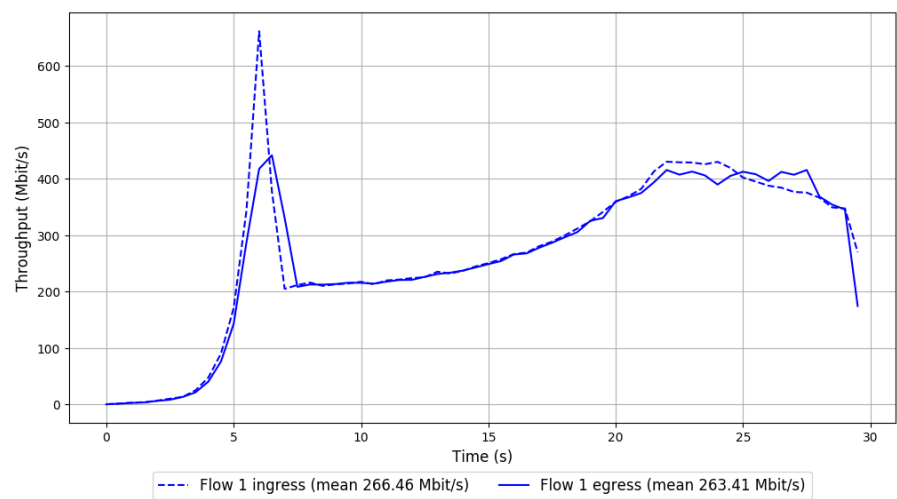
-- Flow 1:

Average throughput: 263.41 Mbit/s

95th percentile per-packet one-way delay: 280.962 ms

Loss rate: 2.04%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-04-10 20:37:20

End at: 2018-04-10 20:37:50

Below is generated by plot.py at 2018-04-11 01:46:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 353.73 Mbit/s

95th percentile per-packet one-way delay: 183.416 ms

Loss rate: 1.77%

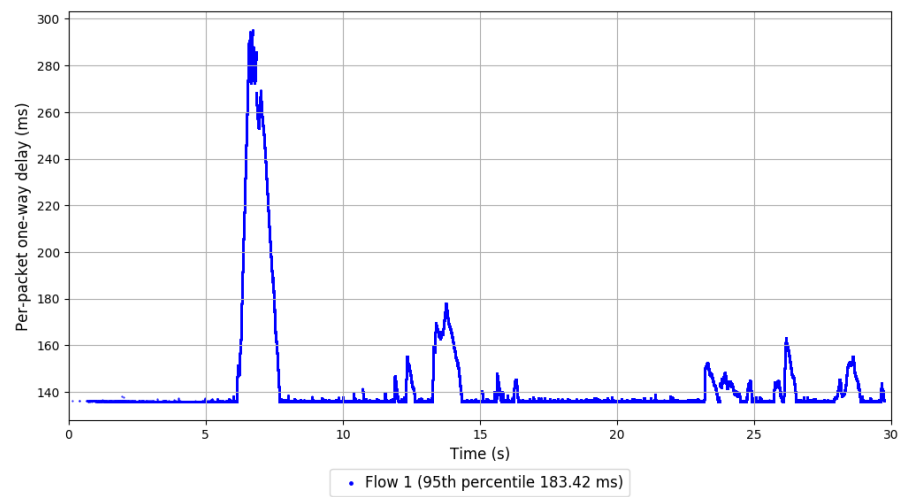
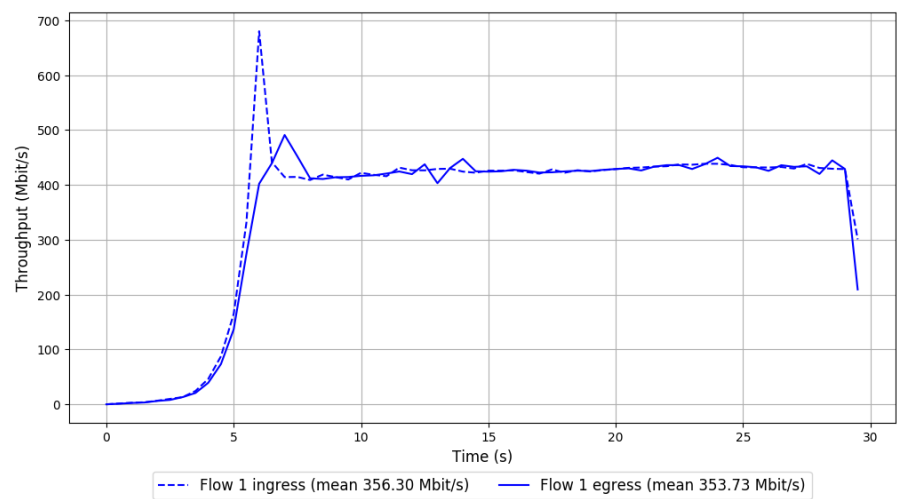
-- Flow 1:

Average throughput: 353.73 Mbit/s

95th percentile per-packet one-way delay: 183.416 ms

Loss rate: 1.77%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-04-10 20:53:03

End at: 2018-04-10 20:53:33

Below is generated by plot.py at 2018-04-11 01:46:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 271.96 Mbit/s

95th percentile per-packet one-way delay: 276.463 ms

Loss rate: 2.72%

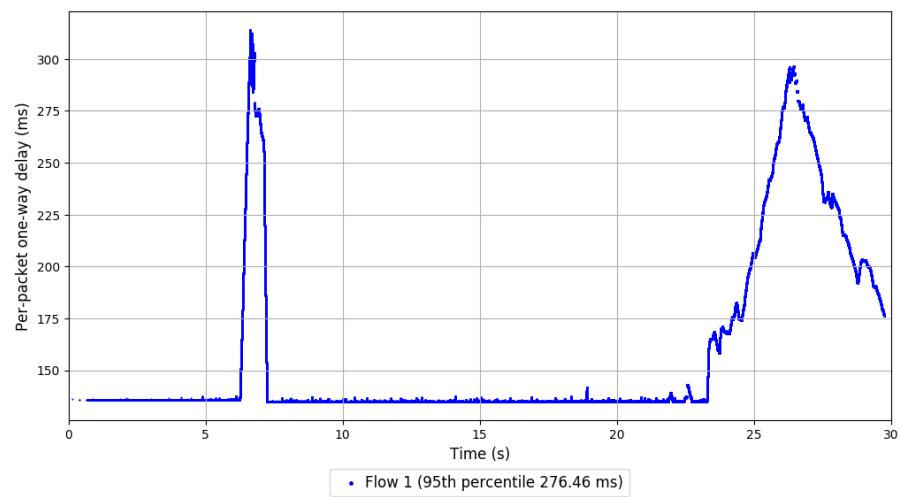
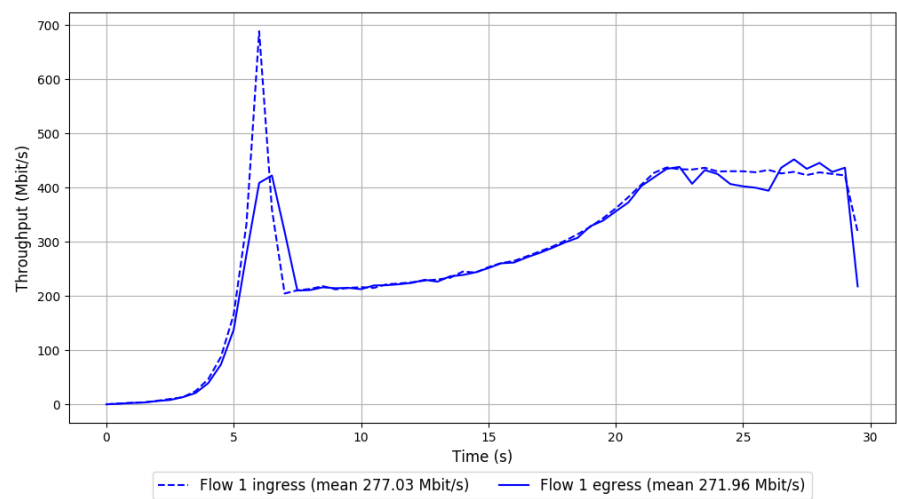
-- Flow 1:

Average throughput: 271.96 Mbit/s

95th percentile per-packet one-way delay: 276.463 ms

Loss rate: 2.72%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-04-10 21:08:28

End at: 2018-04-10 21:08:58

Below is generated by plot.py at 2018-04-11 01:47:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 259.91 Mbit/s

95th percentile per-packet one-way delay: 274.946 ms

Loss rate: 2.74%

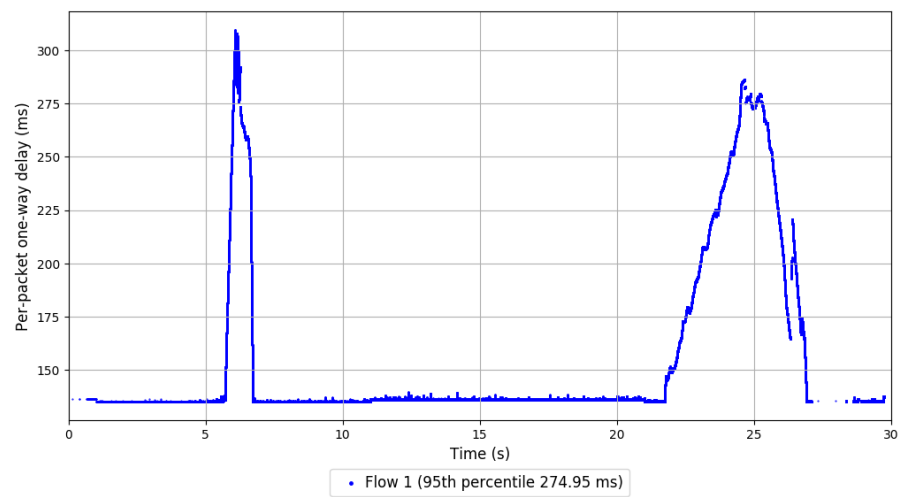
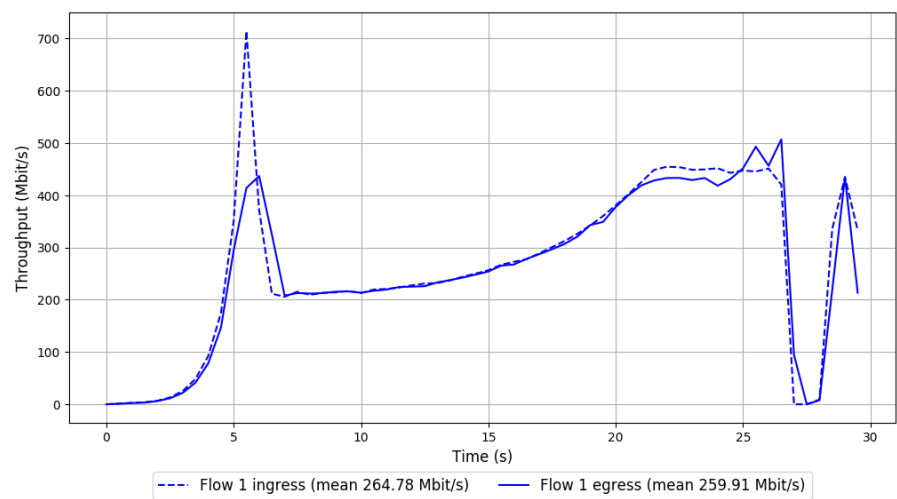
-- Flow 1:

Average throughput: 259.91 Mbit/s

95th percentile per-packet one-way delay: 274.946 ms

Loss rate: 2.74%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-04-10 21:24:11

End at: 2018-04-10 21:24:42

Below is generated by plot.py at 2018-04-11 01:47:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 316.94 Mbit/s

95th percentile per-packet one-way delay: 288.042 ms

Loss rate: 1.94%

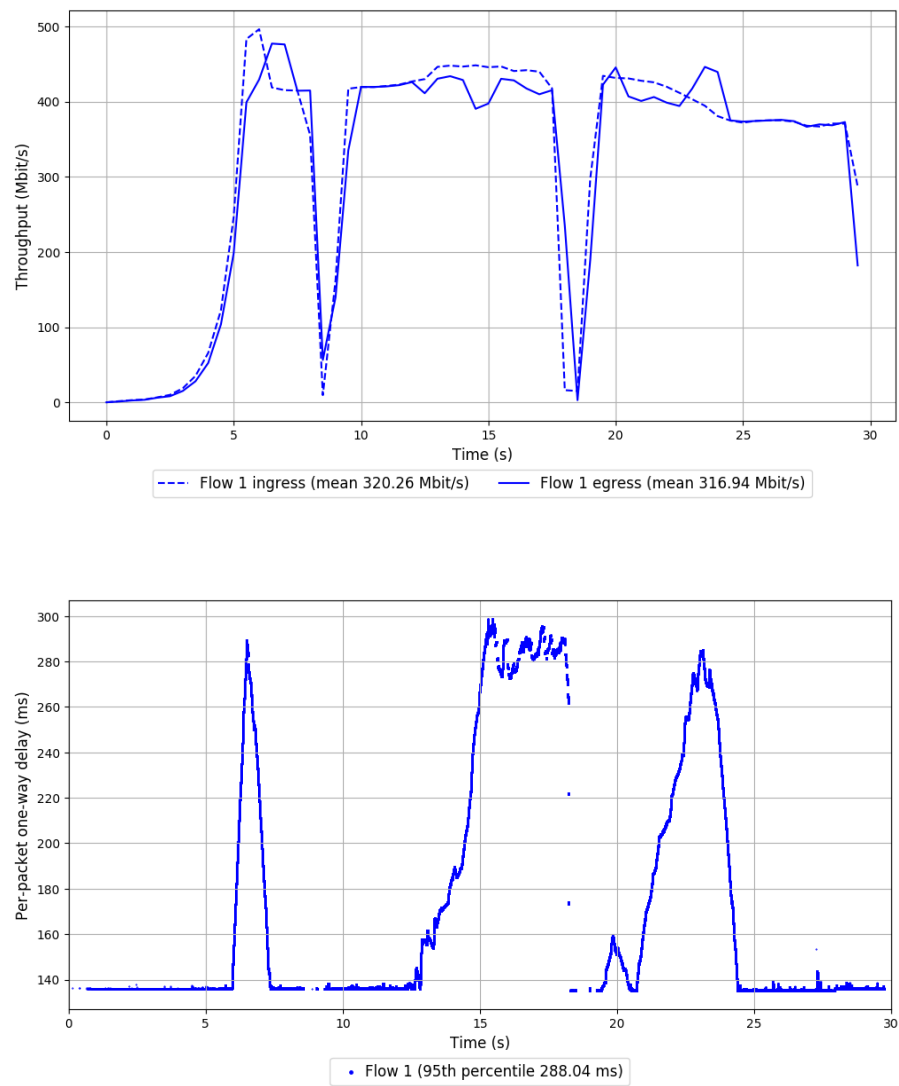
-- Flow 1:

Average throughput: 316.94 Mbit/s

95th percentile per-packet one-way delay: 288.042 ms

Loss rate: 1.94%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-04-10 21:39:51

End at: 2018-04-10 21:40:21

Below is generated by plot.py at 2018-04-11 01:47:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 316.96 Mbit/s

95th percentile per-packet one-way delay: 200.265 ms

Loss rate: 1.92%

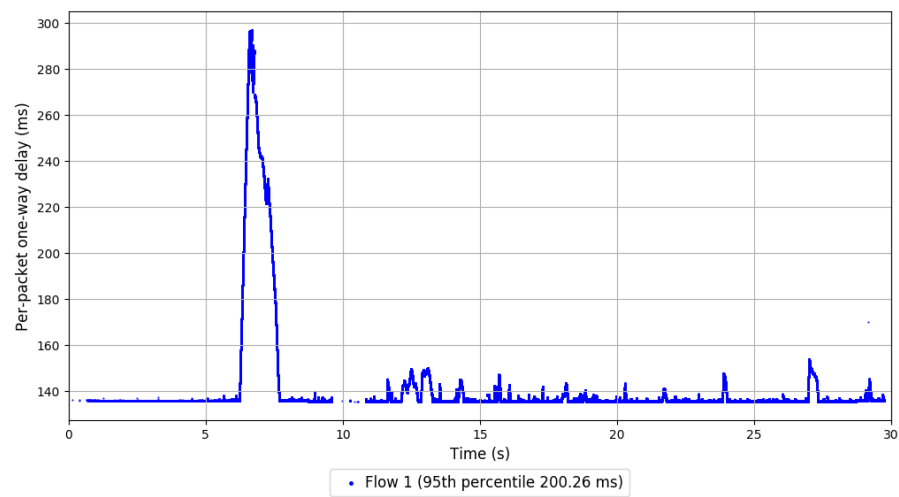
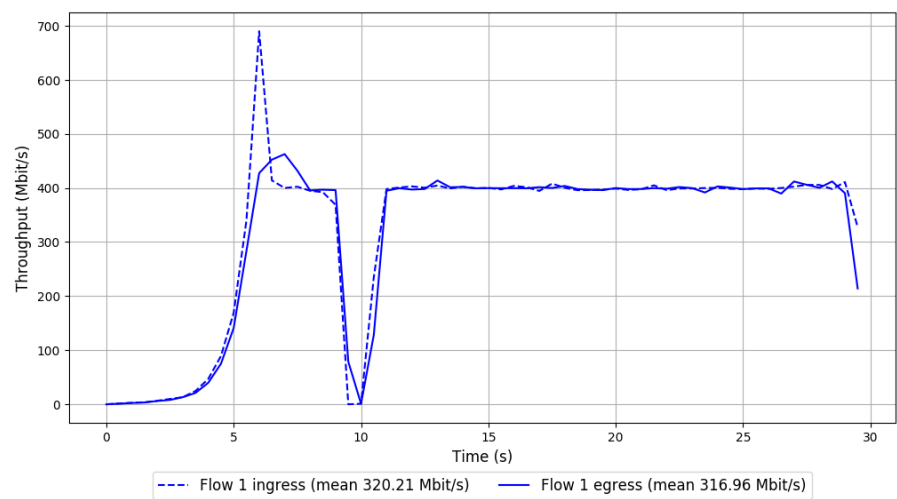
-- Flow 1:

Average throughput: 316.96 Mbit/s

95th percentile per-packet one-way delay: 200.265 ms

Loss rate: 1.92%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-04-10 21:55:25

End at: 2018-04-10 21:55:55

Below is generated by plot.py at 2018-04-11 01:47:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.17 Mbit/s

95th percentile per-packet one-way delay: 279.653 ms

Loss rate: 2.10%

-- Flow 1:

Average throughput: 264.17 Mbit/s

95th percentile per-packet one-way delay: 279.653 ms

Loss rate: 2.10%

Run 10: Report of Vivace-LTE — Data Link

