

Pantheon Report

Generated at 2018-04-18 00:29:37 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

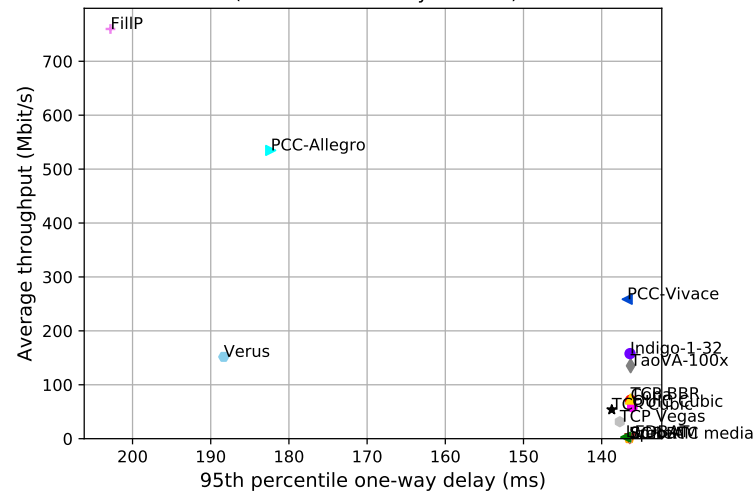
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

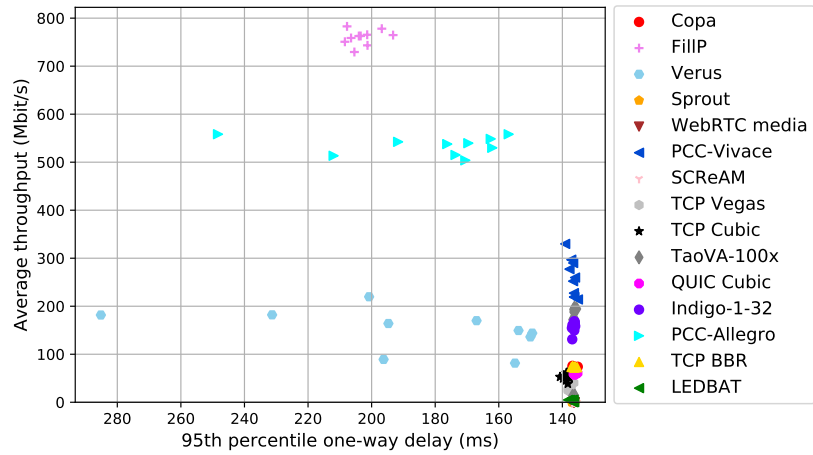
Git summary:

```
branch: master @ b3d6e7098641364fd3a292656a51aa81e316d0b4
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
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/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
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	73.59	136.31	0.99
TCP Cubic	10	53.80	138.71	0.99
LEDBAT	10	2.90	136.93	2.35
PCC-Allegro	10	534.68	182.33	1.71
QUIC Cubic	10	59.13	136.08	1.22
SCReAM	10	0.22	136.34	0.88
WebRTC media	10	0.06	136.40	0.00
Sprout	10	0.41	136.48	0.89
TaoVA-100x	10	135.24	136.30	0.99
TCP Vegas	10	31.46	137.69	0.98
Verus	10	151.77	188.34	2.37
Copa	10	71.38	136.30	0.86
FillP	10	759.90	202.82	2.47
Indigo-1-32	10	157.78	136.38	0.85
PCC-Vivace	10	258.58	136.74	1.23
PCC-Expr	0	N/A	N/A	N/A

Run 1: Statistics of TCP BBR

Start at: 2018-04-17 18:46:49

End at: 2018-04-17 18:47:19

Below is generated by plot.py at 2018-04-17 23:37:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.77 Mbit/s

95th percentile per-packet one-way delay: 136.821 ms

Loss rate: 0.97%

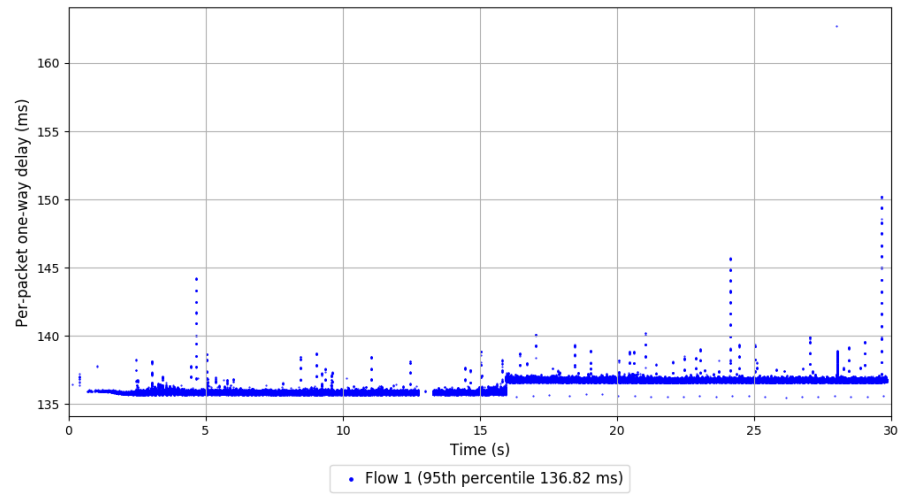
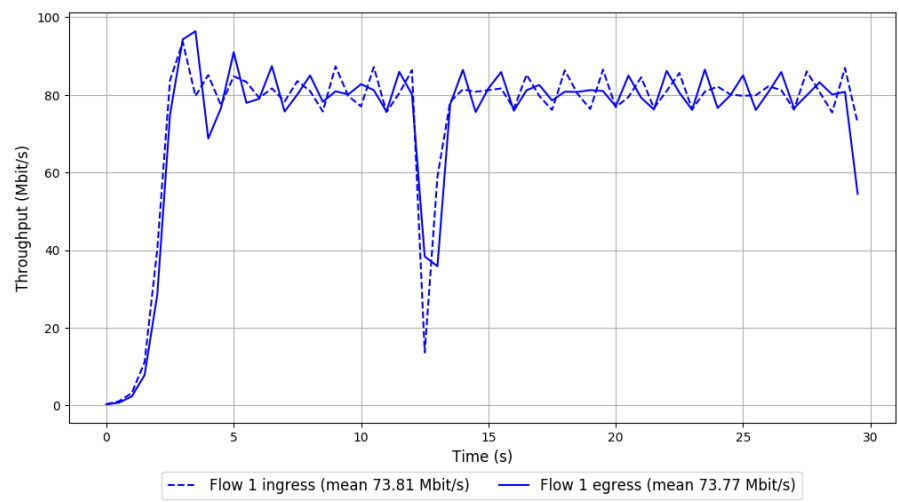
-- Flow 1:

Average throughput: 73.77 Mbit/s

95th percentile per-packet one-way delay: 136.821 ms

Loss rate: 0.97%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-17 19:01:17

End at: 2018-04-17 19:01:47

Below is generated by plot.py at 2018-04-17 23:37:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.47 Mbit/s

95th percentile per-packet one-way delay: 136.774 ms

Loss rate: 1.06%

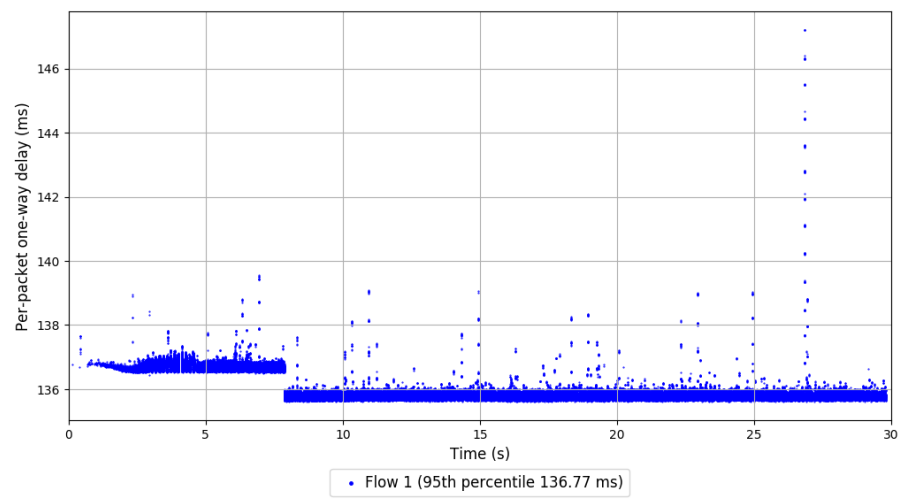
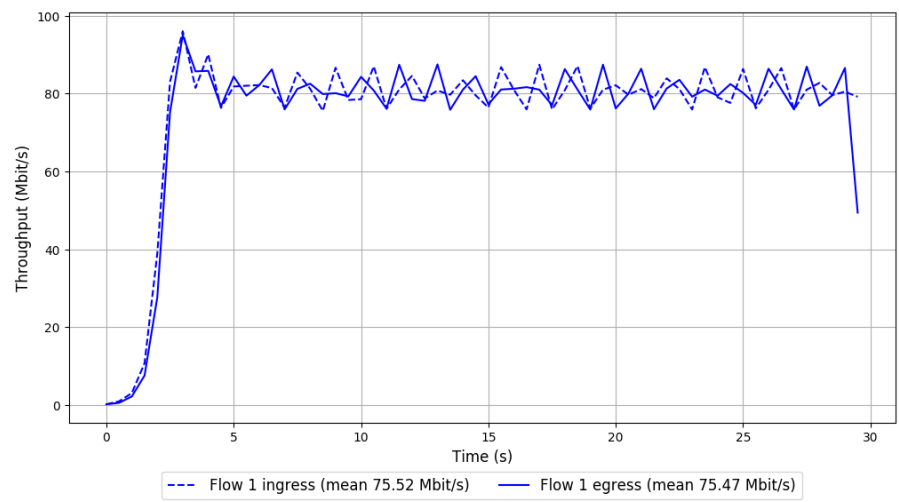
-- Flow 1:

Average throughput: 75.47 Mbit/s

95th percentile per-packet one-way delay: 136.774 ms

Loss rate: 1.06%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-17 19:15:23

End at: 2018-04-17 19:15:53

Below is generated by plot.py at 2018-04-17 23:37:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.96 Mbit/s

95th percentile per-packet one-way delay: 135.362 ms

Loss rate: 0.98%

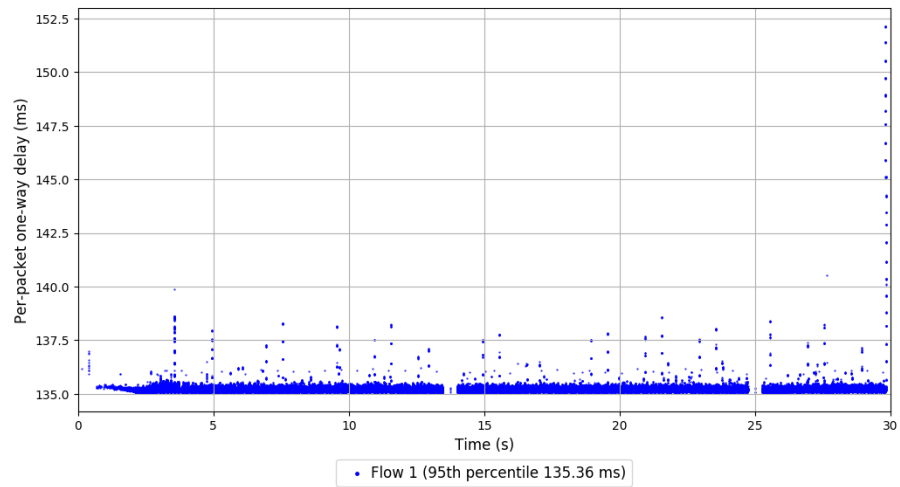
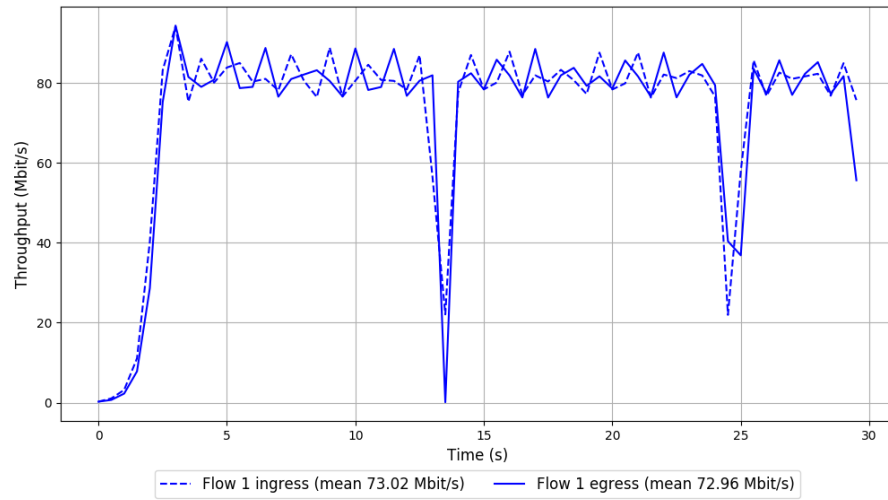
-- Flow 1:

Average throughput: 72.96 Mbit/s

95th percentile per-packet one-way delay: 135.362 ms

Loss rate: 0.98%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-04-17 19:29:35

End at: 2018-04-17 19:30:05

Below is generated by plot.py at 2018-04-17 23:37:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.43 Mbit/s

95th percentile per-packet one-way delay: 137.115 ms

Loss rate: 0.96%

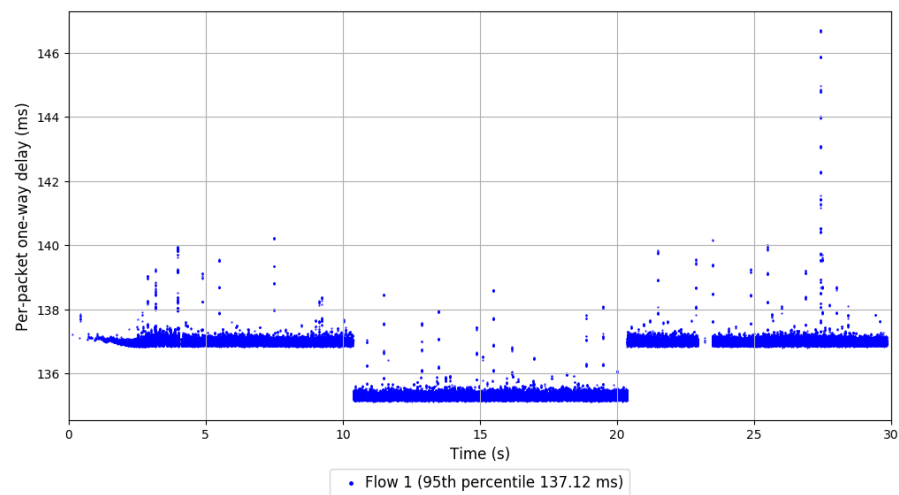
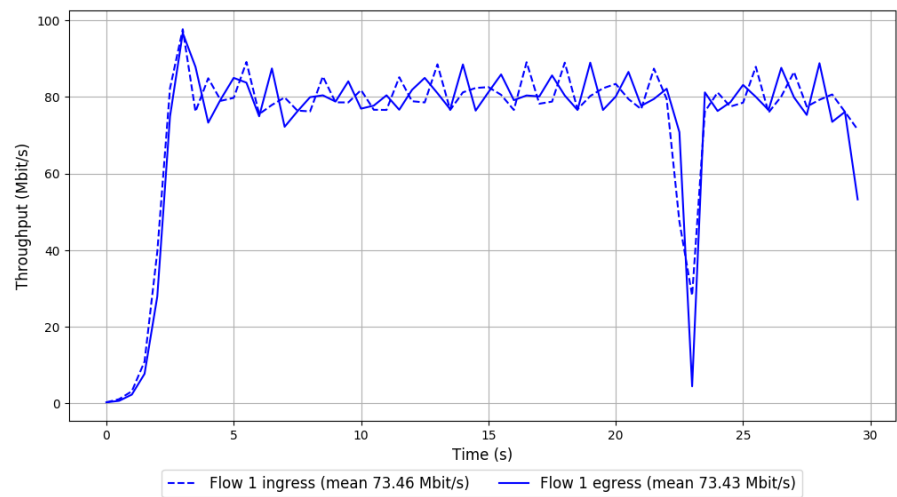
-- Flow 1:

Average throughput: 73.43 Mbit/s

95th percentile per-packet one-way delay: 137.115 ms

Loss rate: 0.96%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-17 19:43:46

End at: 2018-04-17 19:44:16

Below is generated by plot.py at 2018-04-17 23:37:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.51 Mbit/s

95th percentile per-packet one-way delay: 136.216 ms

Loss rate: 1.01%

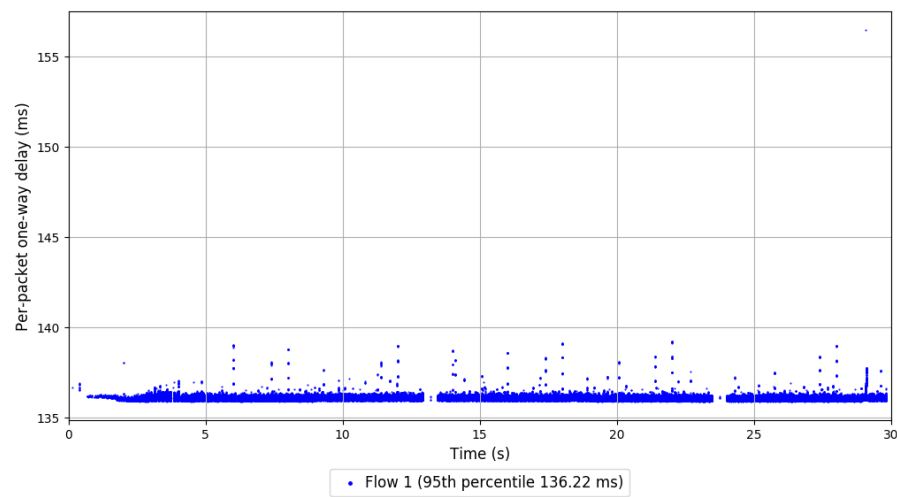
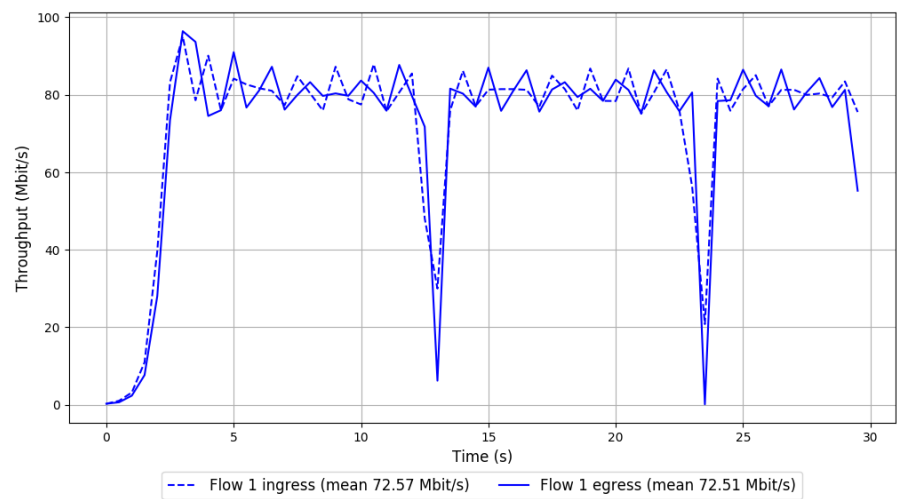
-- Flow 1:

Average throughput: 72.51 Mbit/s

95th percentile per-packet one-way delay: 136.216 ms

Loss rate: 1.01%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-17 19:58:15

End at: 2018-04-17 19:58:45

Below is generated by plot.py at 2018-04-17 23:37:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.82 Mbit/s

95th percentile per-packet one-way delay: 136.204 ms

Loss rate: 1.05%

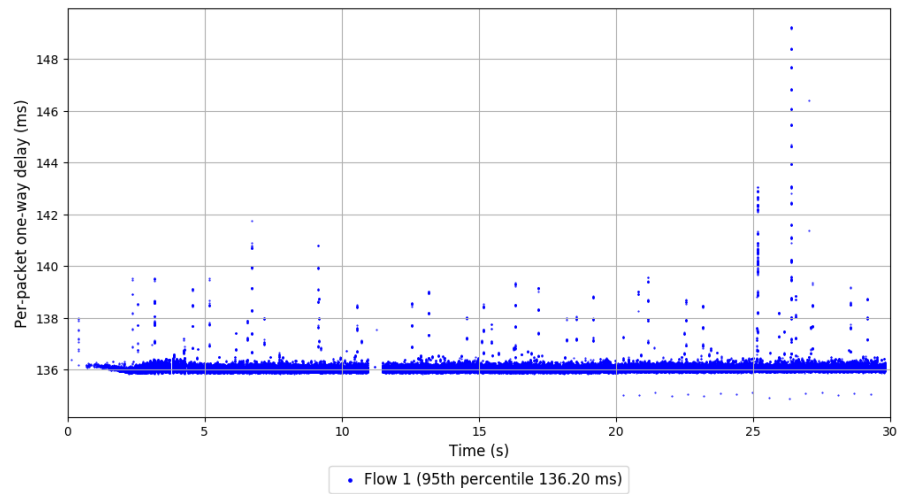
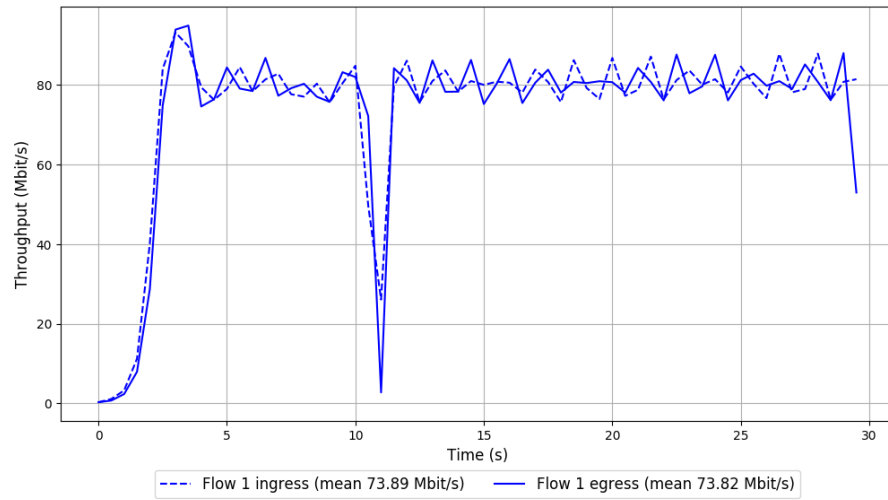
-- Flow 1:

Average throughput: 73.82 Mbit/s

95th percentile per-packet one-way delay: 136.204 ms

Loss rate: 1.05%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-04-17 20:12:45

End at: 2018-04-17 20:13:15

Below is generated by plot.py at 2018-04-17 23:37:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.33 Mbit/s

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

Loss rate: 0.98%

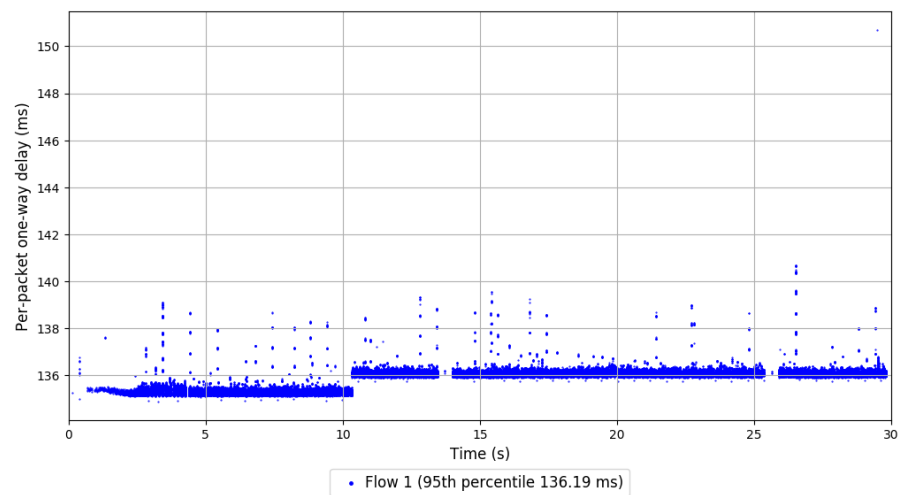
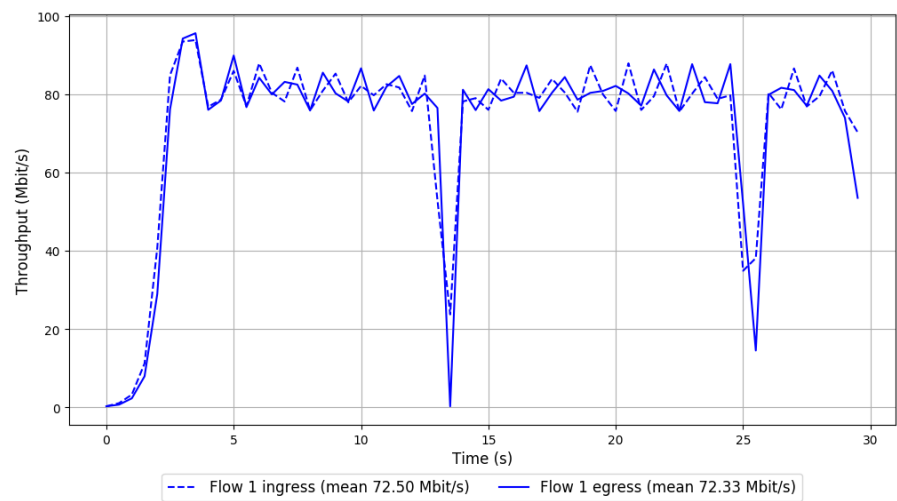
-- Flow 1:

Average throughput: 72.33 Mbit/s

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

Loss rate: 0.98%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-17 20:27:15

End at: 2018-04-17 20:27:45

Below is generated by plot.py at 2018-04-17 23:37:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.93 Mbit/s

95th percentile per-packet one-way delay: 136.172 ms

Loss rate: 0.97%

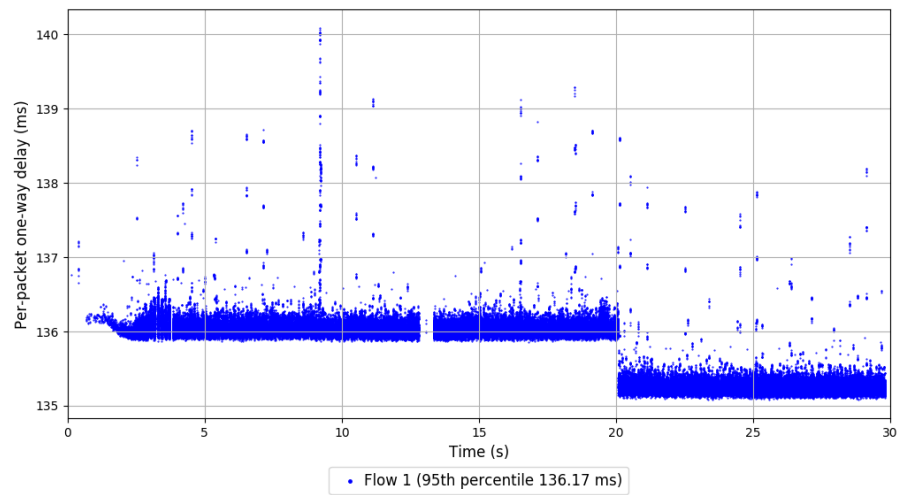
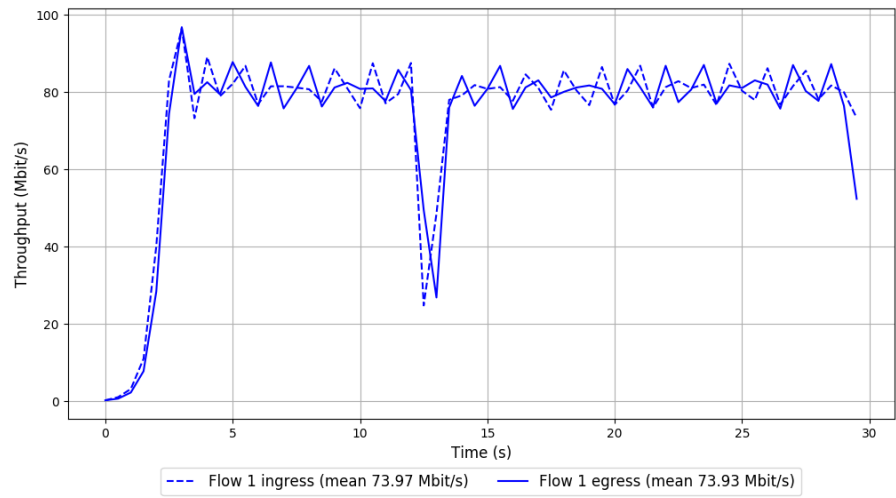
-- Flow 1:

Average throughput: 73.93 Mbit/s

95th percentile per-packet one-way delay: 136.172 ms

Loss rate: 0.97%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-17 20:41:41

End at: 2018-04-17 20:42:11

Below is generated by plot.py at 2018-04-17 23:38:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.47 Mbit/s

95th percentile per-packet one-way delay: 136.209 ms

Loss rate: 0.97%

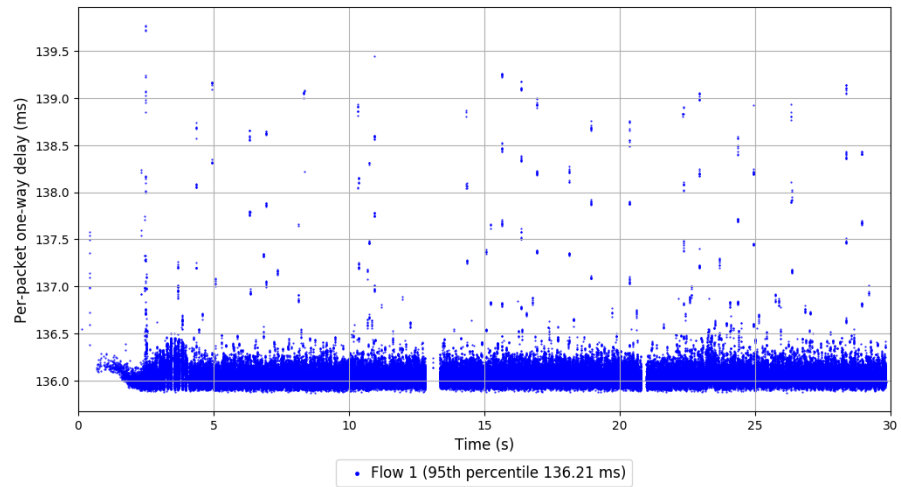
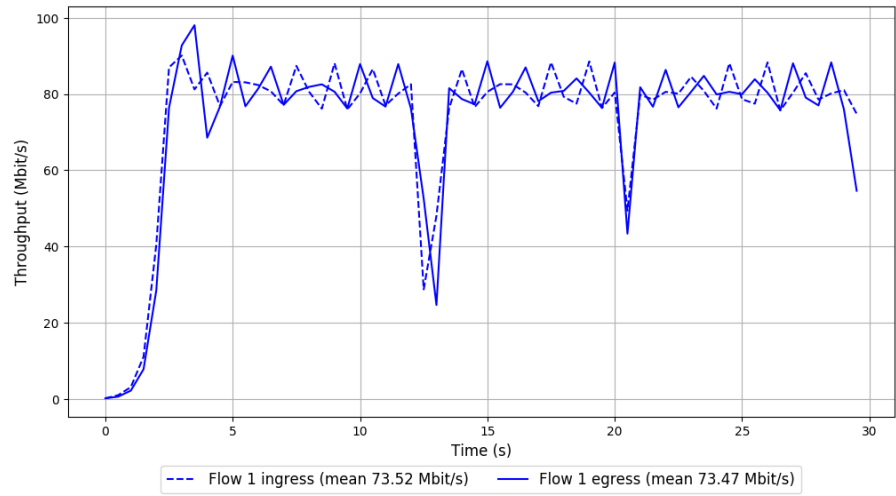
-- Flow 1:

Average throughput: 73.47 Mbit/s

95th percentile per-packet one-way delay: 136.209 ms

Loss rate: 0.97%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-04-17 20:56:11

End at: 2018-04-17 20:56:41

Below is generated by plot.py at 2018-04-17 23:38:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.16 Mbit/s

95th percentile per-packet one-way delay: 136.040 ms

Loss rate: 0.97%

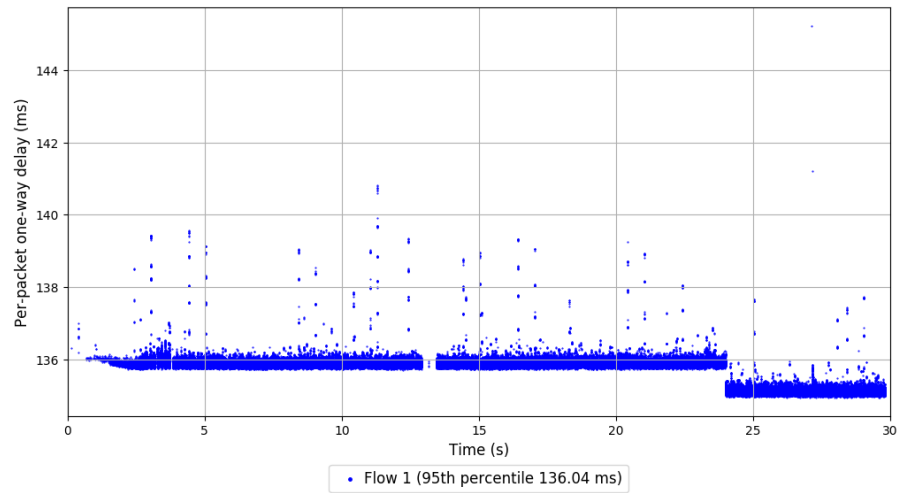
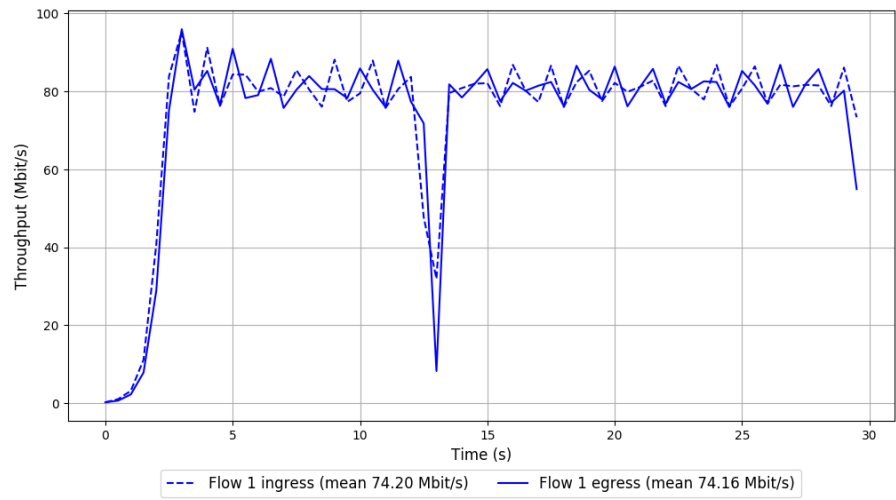
-- Flow 1:

Average throughput: 74.16 Mbit/s

95th percentile per-packet one-way delay: 136.040 ms

Loss rate: 0.97%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-04-17 18:51:34

End at: 2018-04-17 18:52:04

Below is generated by plot.py at 2018-04-17 23:38:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.44 Mbit/s

95th percentile per-packet one-way delay: 138.832 ms

Loss rate: 0.90%

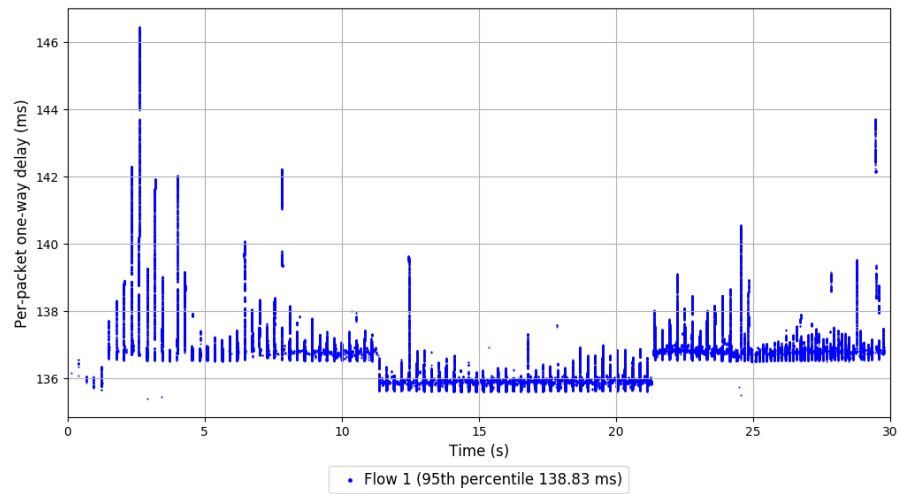
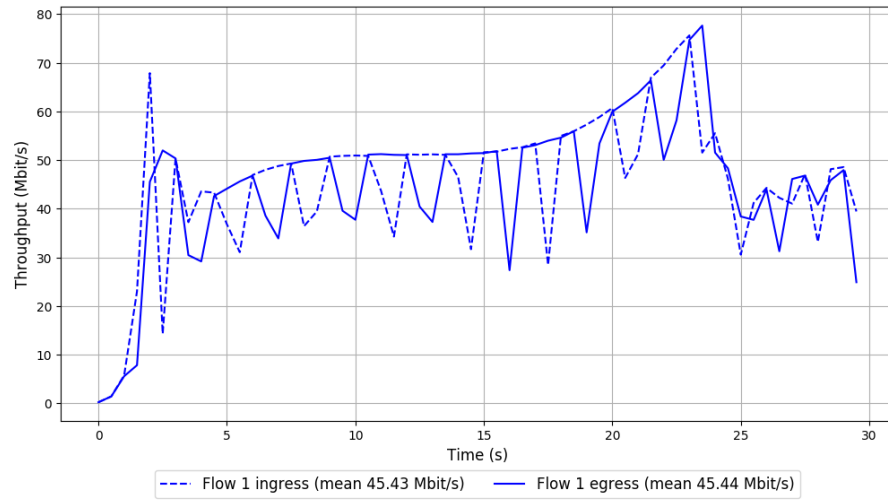
-- Flow 1:

Average throughput: 45.44 Mbit/s

95th percentile per-packet one-way delay: 138.832 ms

Loss rate: 0.90%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-04-17 19:06:00

End at: 2018-04-17 19:06:30

Below is generated by plot.py at 2018-04-17 23:38:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.33 Mbit/s

95th percentile per-packet one-way delay: 138.726 ms

Loss rate: 0.53%

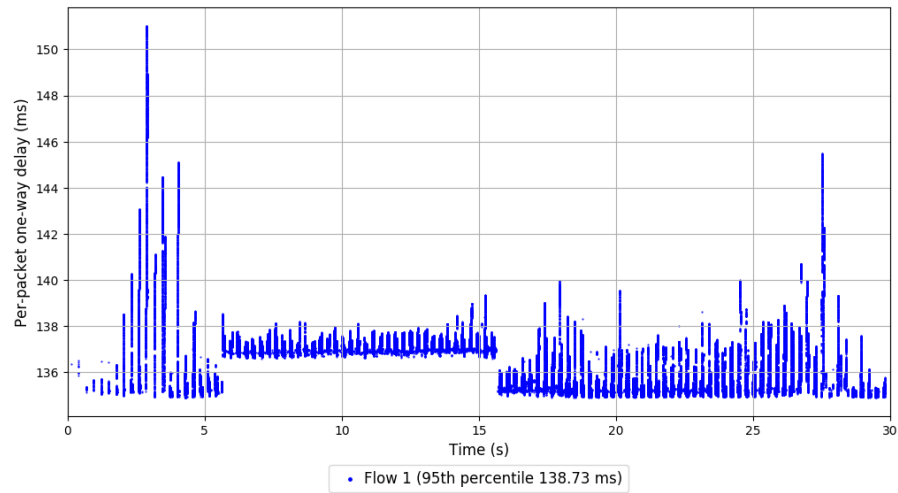
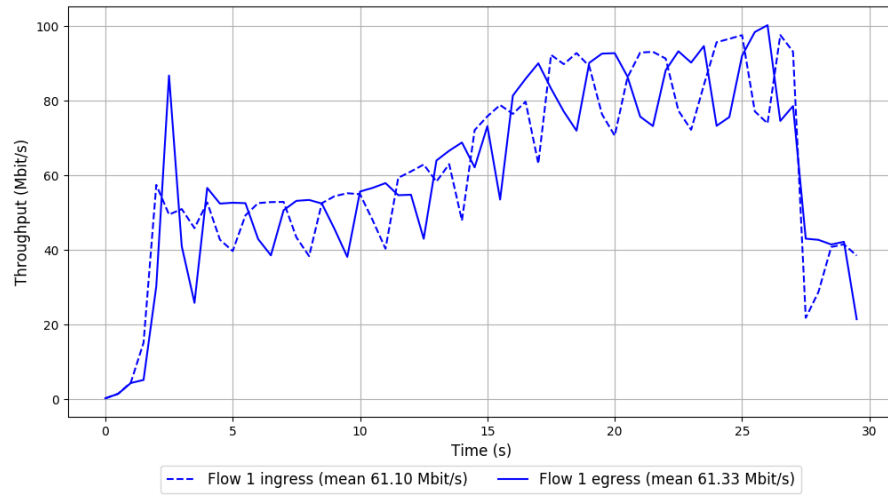
-- Flow 1:

Average throughput: 61.33 Mbit/s

95th percentile per-packet one-way delay: 138.726 ms

Loss rate: 0.53%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-04-17 19:20:14

End at: 2018-04-17 19:20:44

Below is generated by plot.py at 2018-04-17 23:38:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.17 Mbit/s

95th percentile per-packet one-way delay: 137.691 ms

Loss rate: 1.48%

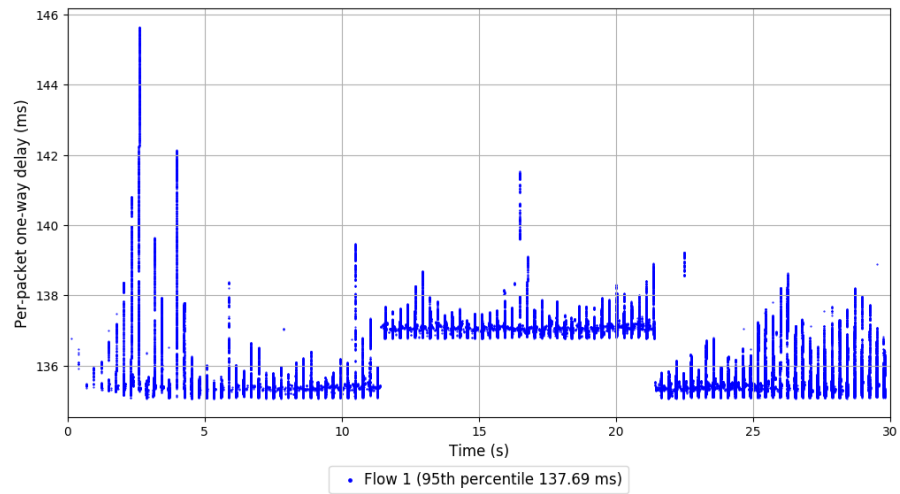
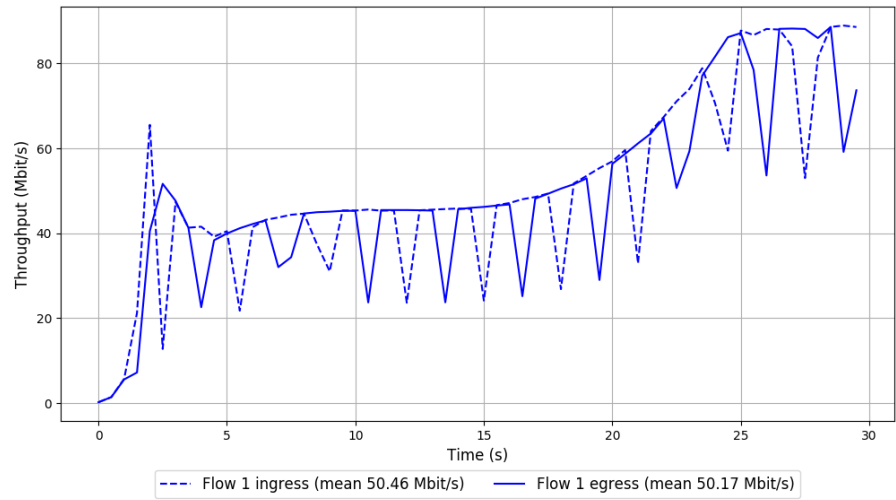
-- Flow 1:

Average throughput: 50.17 Mbit/s

95th percentile per-packet one-way delay: 137.691 ms

Loss rate: 1.48%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-04-17 19:34:22

End at: 2018-04-17 19:34:52

Below is generated by plot.py at 2018-04-17 23:38:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.93 Mbit/s

95th percentile per-packet one-way delay: 139.617 ms

Loss rate: 0.81%

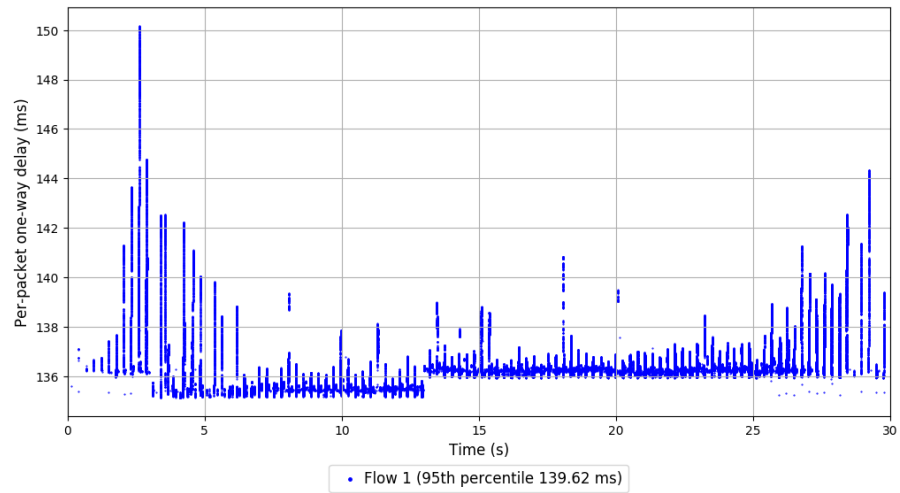
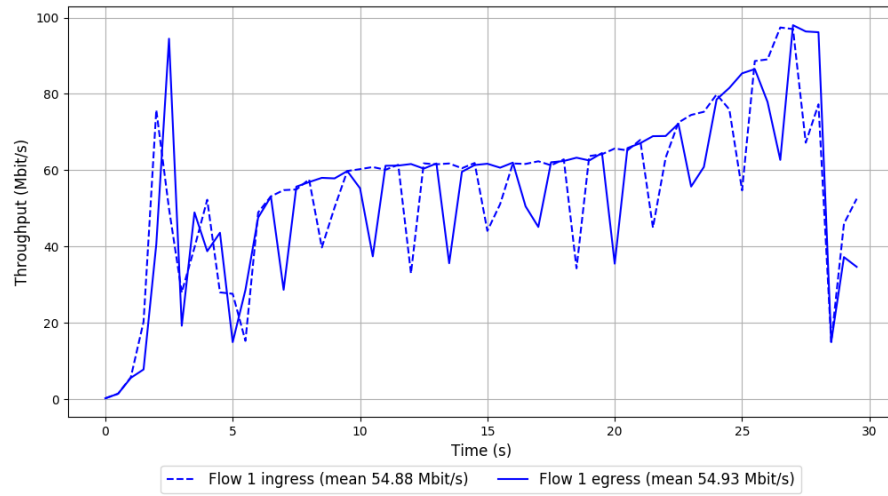
-- Flow 1:

Average throughput: 54.93 Mbit/s

95th percentile per-packet one-way delay: 139.617 ms

Loss rate: 0.81%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-17 19:48:39

End at: 2018-04-17 19:49:09

Below is generated by plot.py at 2018-04-17 23:38:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.32 Mbit/s

95th percentile per-packet one-way delay: 137.421 ms

Loss rate: 1.18%

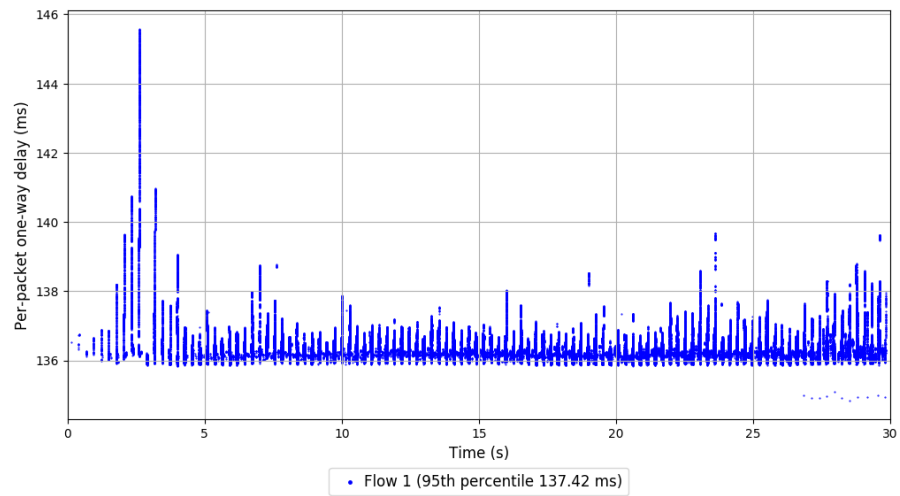
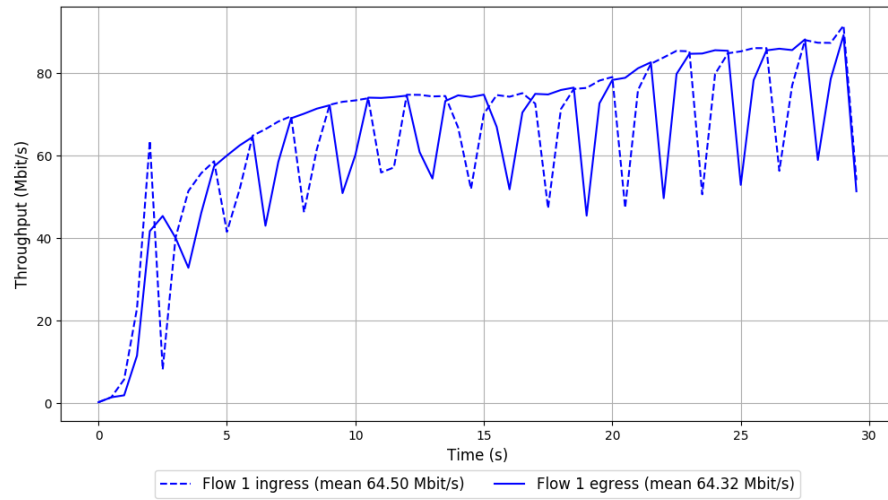
-- Flow 1:

Average throughput: 64.32 Mbit/s

95th percentile per-packet one-way delay: 137.421 ms

Loss rate: 1.18%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-04-17 20:03:01

End at: 2018-04-17 20:03:31

Below is generated by plot.py at 2018-04-17 23:38:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.53 Mbit/s

95th percentile per-packet one-way delay: 139.778 ms

Loss rate: 0.71%

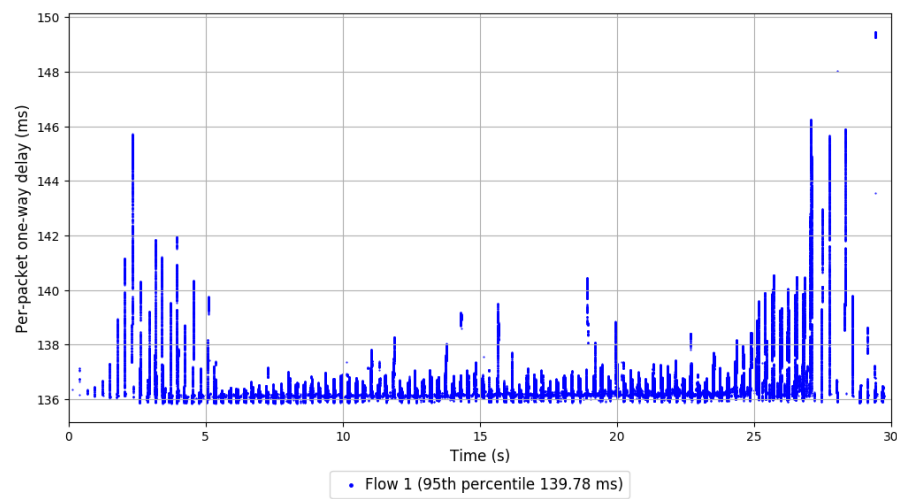
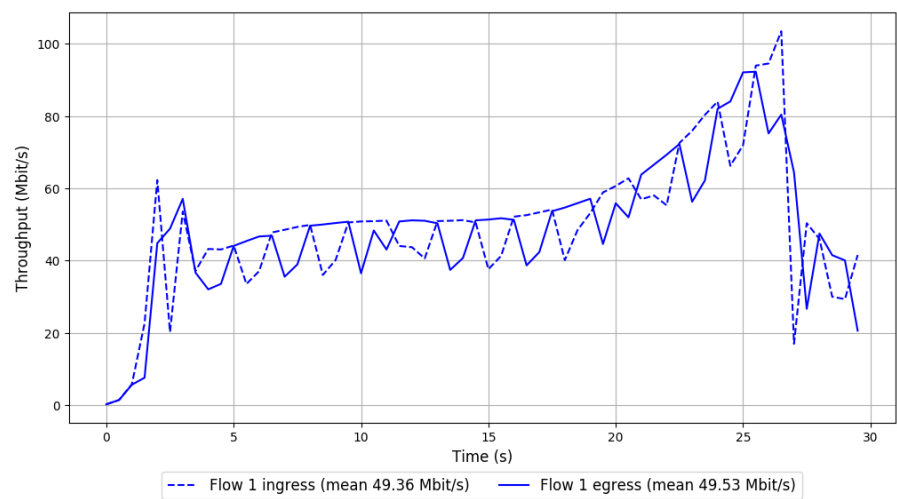
-- Flow 1:

Average throughput: 49.53 Mbit/s

95th percentile per-packet one-way delay: 139.778 ms

Loss rate: 0.71%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-17 20:17:32

End at: 2018-04-17 20:18:02

Below is generated by plot.py at 2018-04-17 23:39:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.94 Mbit/s

95th percentile per-packet one-way delay: 137.576 ms

Loss rate: 1.29%

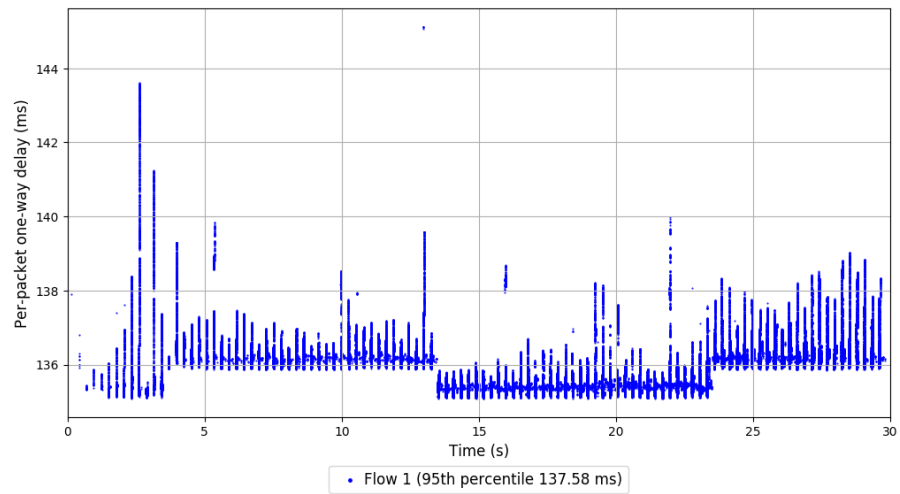
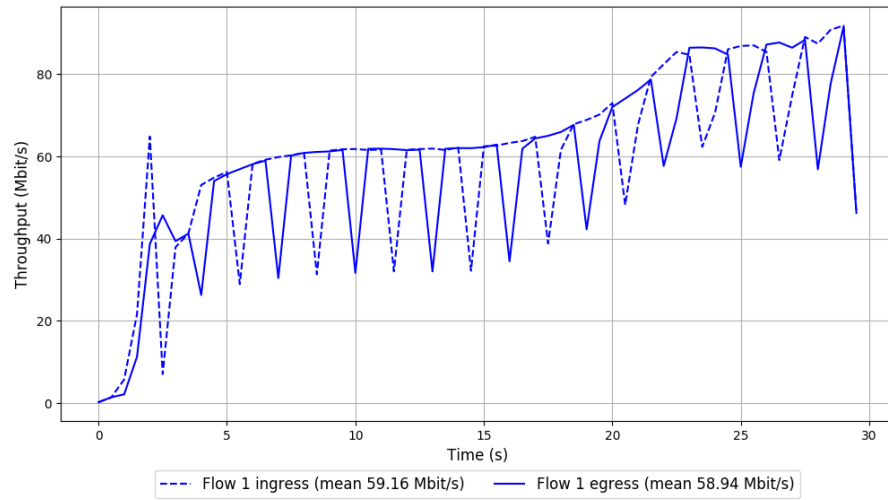
-- Flow 1:

Average throughput: 58.94 Mbit/s

95th percentile per-packet one-way delay: 137.576 ms

Loss rate: 1.29%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-04-17 20:32:00

End at: 2018-04-17 20:32:30

Below is generated by plot.py at 2018-04-17 23:39:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.82 Mbit/s

95th percentile per-packet one-way delay: 138.459 ms

Loss rate: 0.80%

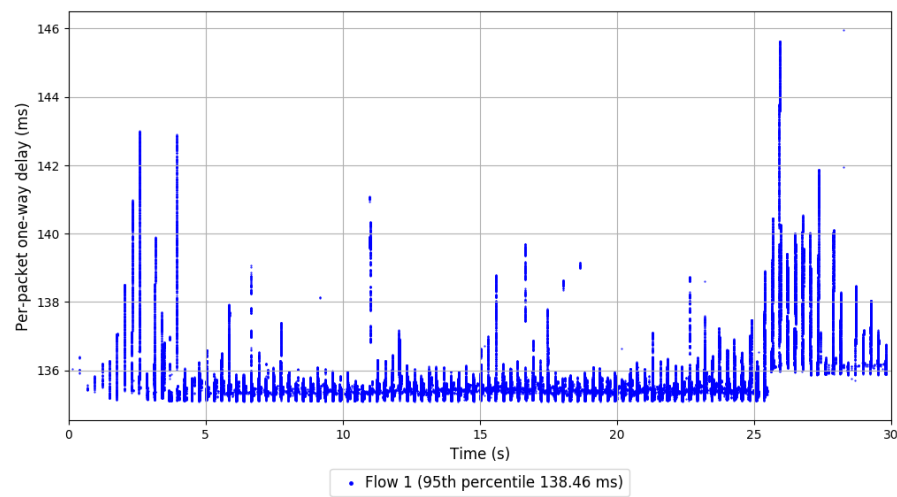
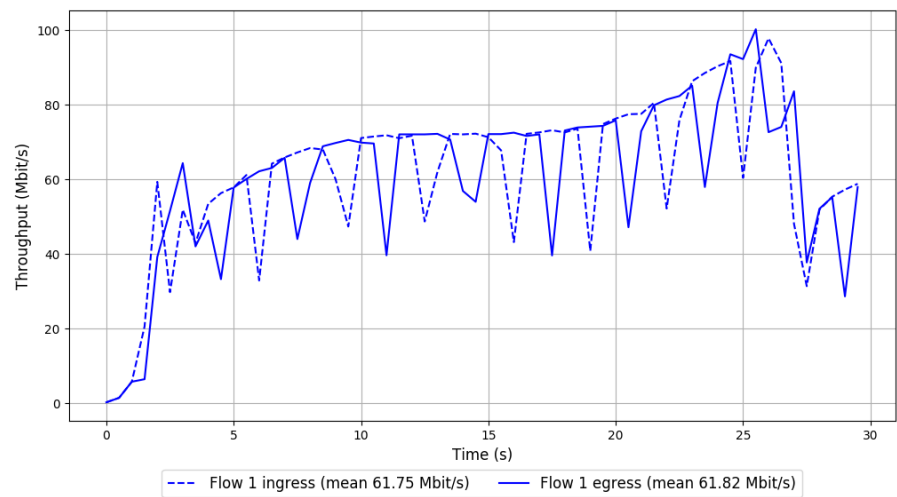
-- Flow 1:

Average throughput: 61.82 Mbit/s

95th percentile per-packet one-way delay: 138.459 ms

Loss rate: 0.80%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-17 20:46:27

End at: 2018-04-17 20:46:57

Below is generated by plot.py at 2018-04-17 23:39:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.91 Mbit/s

95th percentile per-packet one-way delay: 140.743 ms

Loss rate: 0.64%

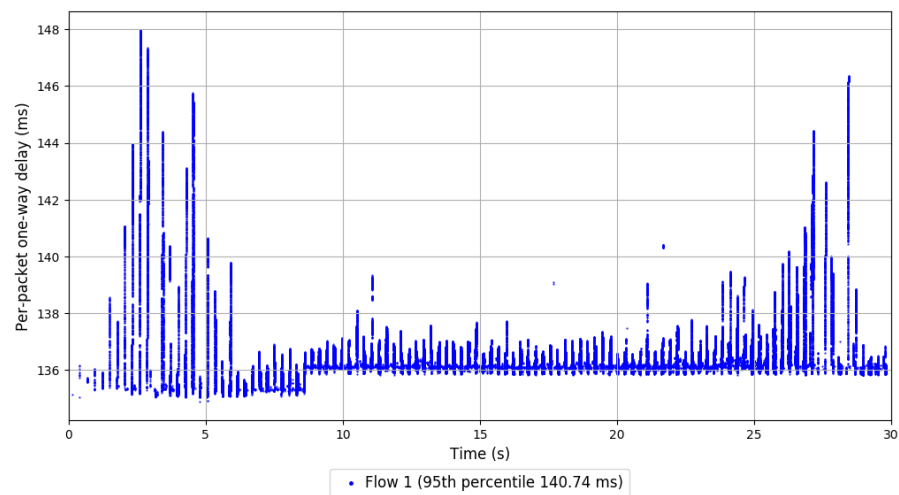
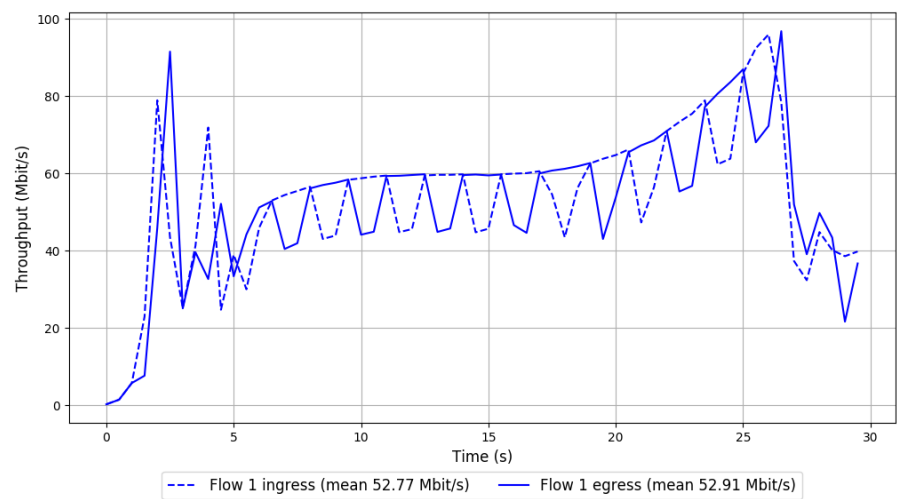
-- Flow 1:

Average throughput: 52.91 Mbit/s

95th percentile per-packet one-way delay: 140.743 ms

Loss rate: 0.64%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-17 21:01:00

End at: 2018-04-17 21:01:30

Below is generated by plot.py at 2018-04-17 23:39:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.63 Mbit/s

95th percentile per-packet one-way delay: 138.271 ms

Loss rate: 1.58%

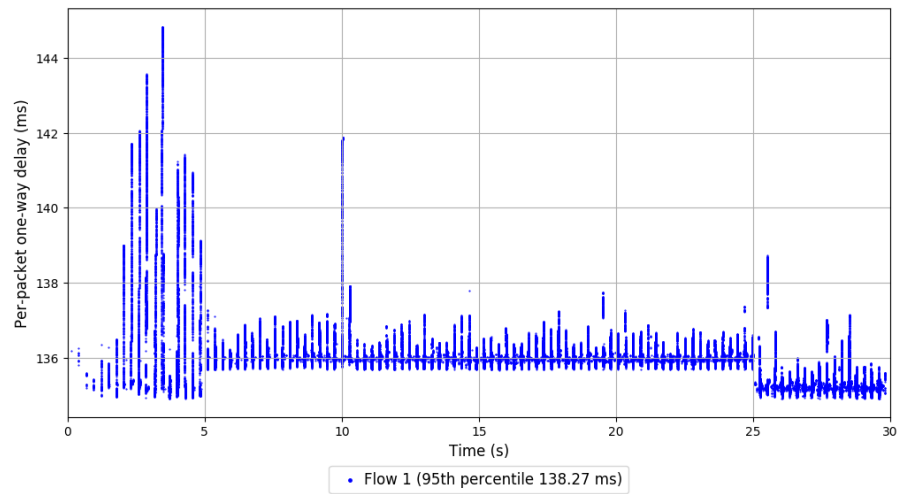
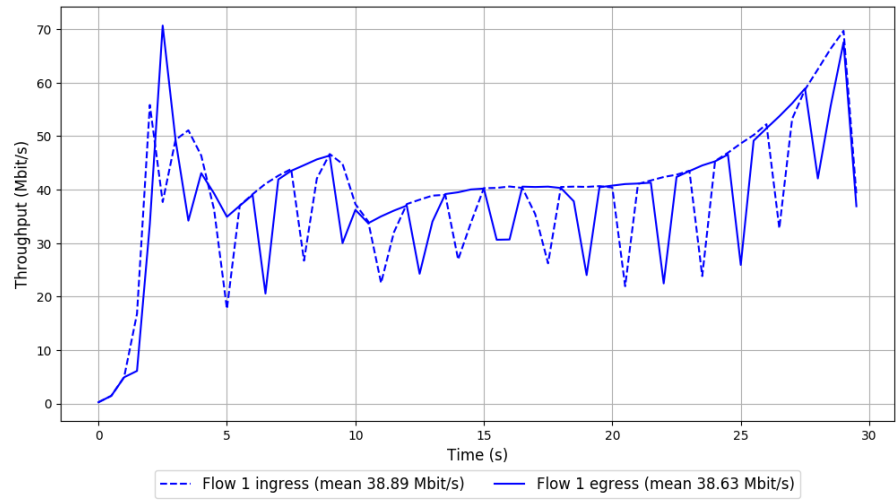
-- Flow 1:

Average throughput: 38.63 Mbit/s

95th percentile per-packet one-way delay: 138.271 ms

Loss rate: 1.58%

Run 10: Report of TCP Cubic — Data Link

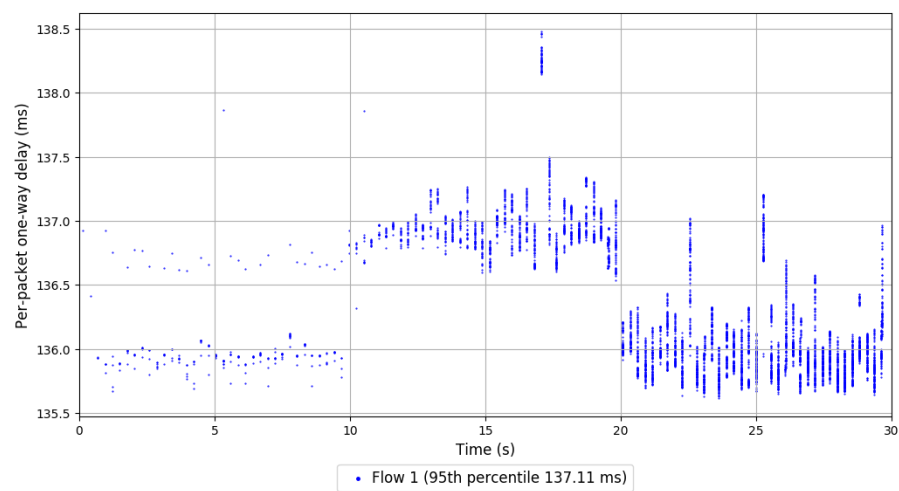
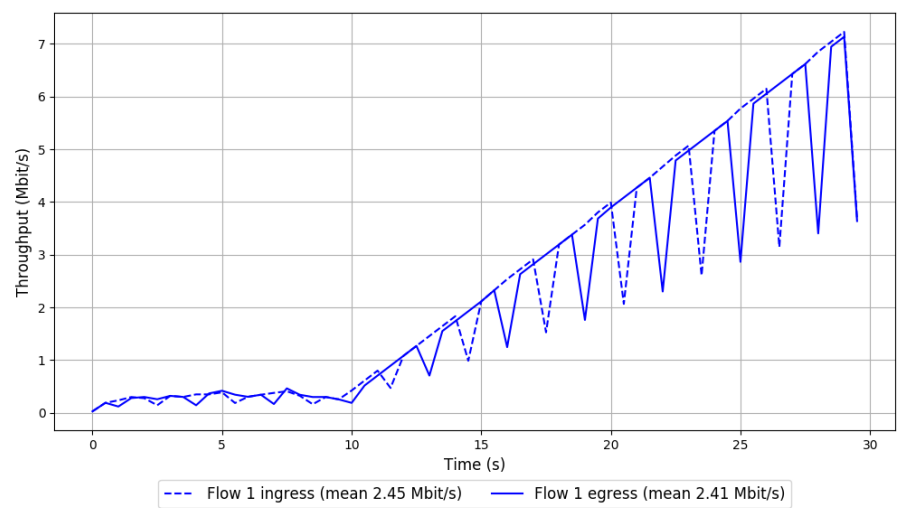


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-17 18:59:05
End at: 2018-04-17 18:59:35

# Below is generated by plot.py at 2018-04-17 23:39:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 137.108 ms
Loss rate: 2.53%
-- Flow 1:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 137.108 ms
Loss rate: 2.53%
```

Run 1: Report of LEDBAT — Data Link

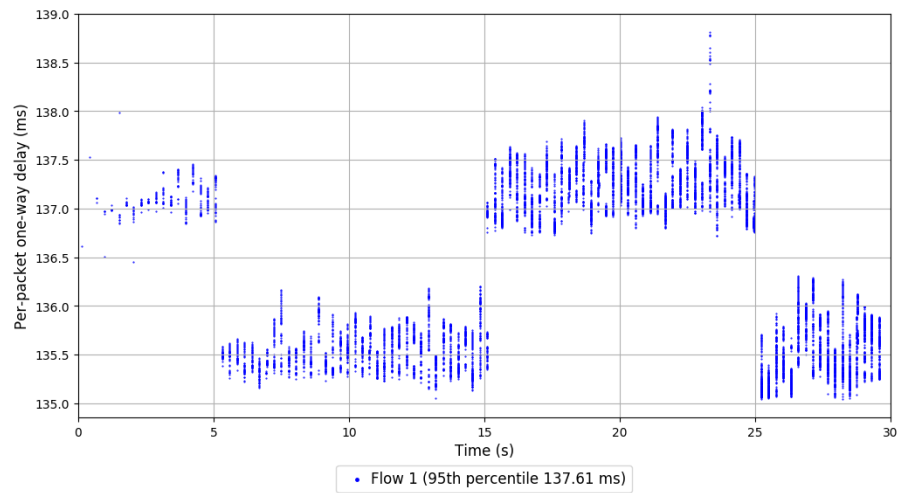
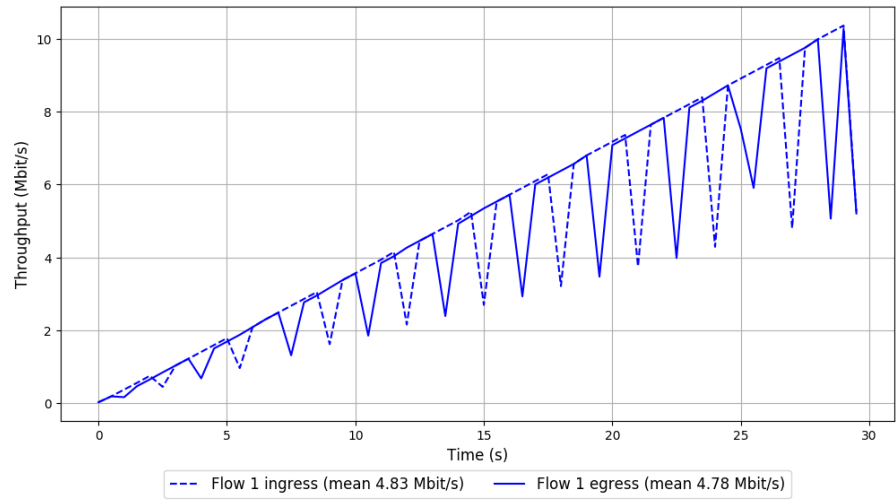


```
Run 2: Statistics of LEDBAT

Start at: 2018-04-17 19:13:10
End at: 2018-04-17 19:13:40

# Below is generated by plot.py at 2018-04-17 23:39:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.78 Mbit/s
95th percentile per-packet one-way delay: 137.613 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 4.78 Mbit/s
95th percentile per-packet one-way delay: 137.613 ms
Loss rate: 1.83%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-17 19:27:22

End at: 2018-04-17 19:27:52

Below is generated by plot.py at 2018-04-17 23:39:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.82 Mbit/s

95th percentile per-packet one-way delay: 138.207 ms

Loss rate: 1.81%

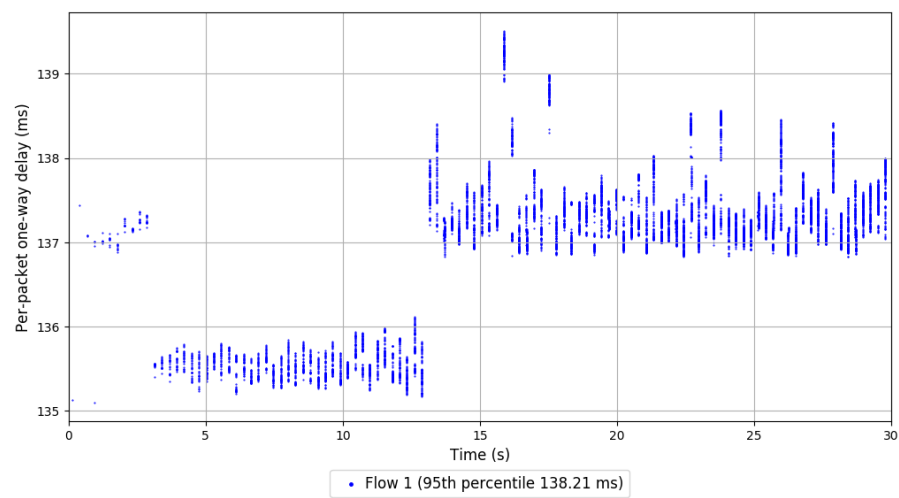
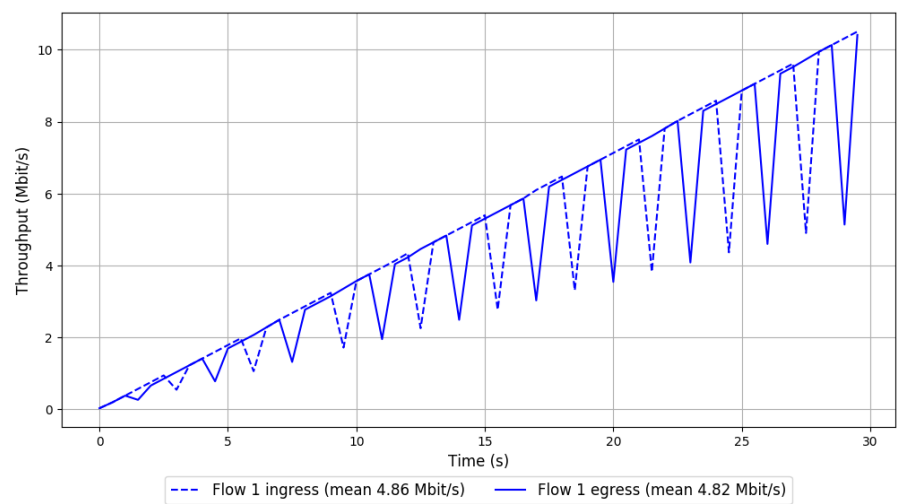
-- Flow 1:

Average throughput: 4.82 Mbit/s

95th percentile per-packet one-way delay: 138.207 ms

Loss rate: 1.81%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-04-17 19:41:34

End at: 2018-04-17 19:42:04

Below is generated by plot.py at 2018-04-17 23:39:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.80 Mbit/s

95th percentile per-packet one-way delay: 136.882 ms

Loss rate: 1.83%

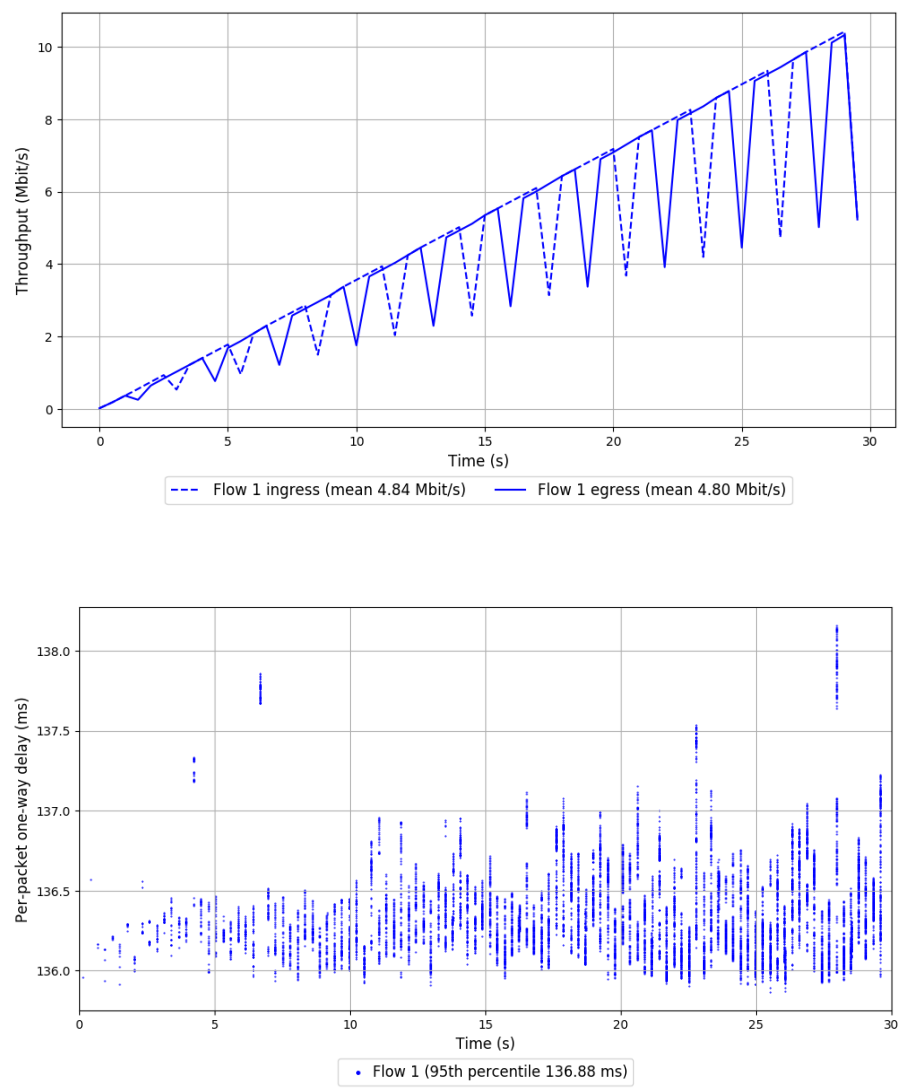
-- Flow 1:

Average throughput: 4.80 Mbit/s

95th percentile per-packet one-way delay: 136.882 ms

Loss rate: 1.83%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-17 19:56:03

End at: 2018-04-17 19:56:33

Below is generated by plot.py at 2018-04-17 23:39:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.54 Mbit/s

95th percentile per-packet one-way delay: 136.856 ms

Loss rate: 3.03%

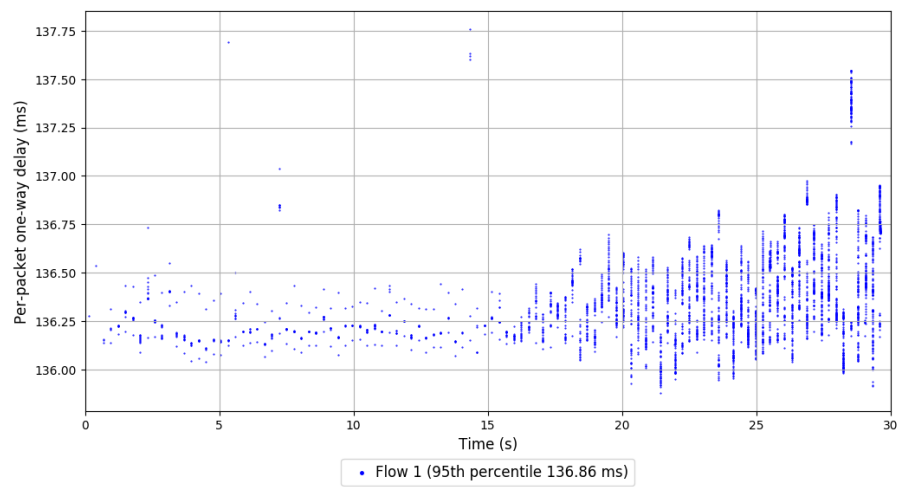
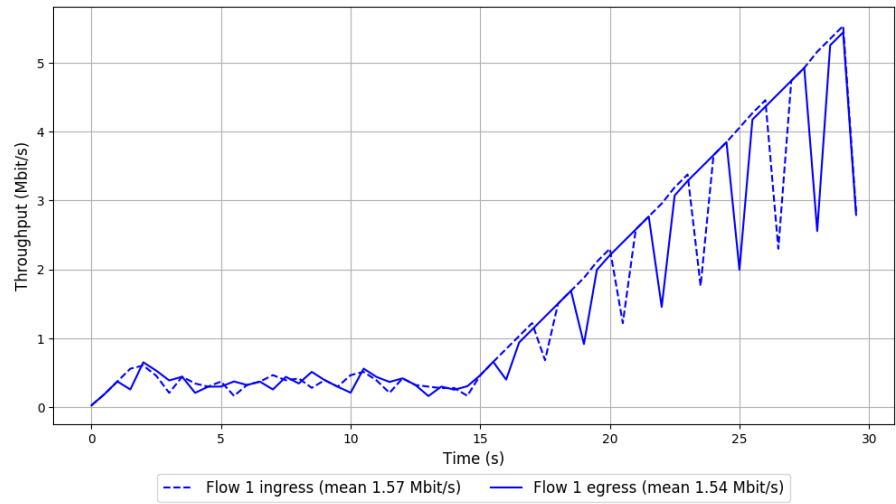
-- Flow 1:

Average throughput: 1.54 Mbit/s

95th percentile per-packet one-way delay: 136.856 ms

Loss rate: 3.03%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-04-17 20:10:33

End at: 2018-04-17 20:11:03

Below is generated by plot.py at 2018-04-17 23:39:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.43 Mbit/s

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

Loss rate: 4.46%

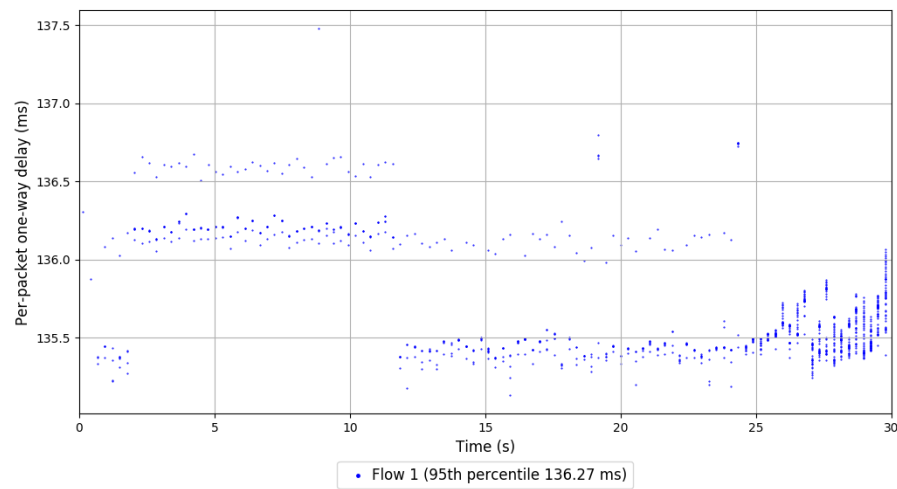
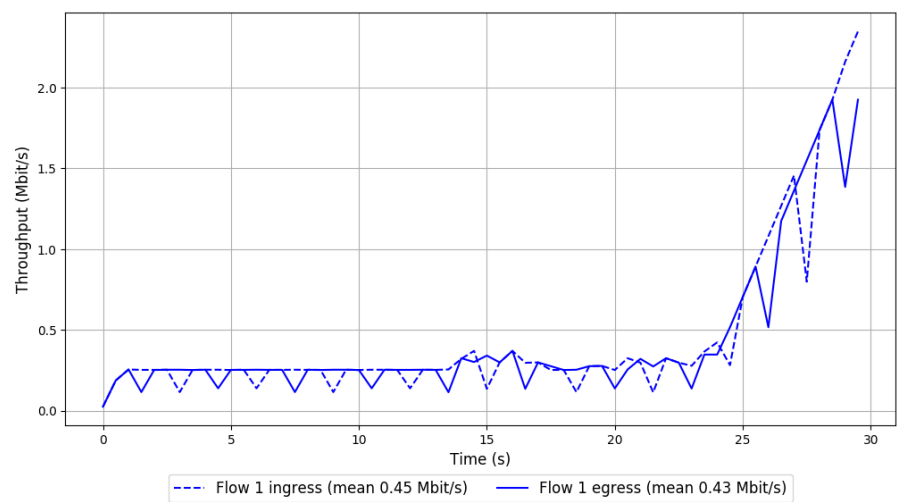
-- Flow 1:

Average throughput: 0.43 Mbit/s

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

Loss rate: 4.46%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-04-17 20:25:03

End at: 2018-04-17 20:25:33

Below is generated by plot.py at 2018-04-17 23:39:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 136.679 ms

Loss rate: 3.38%

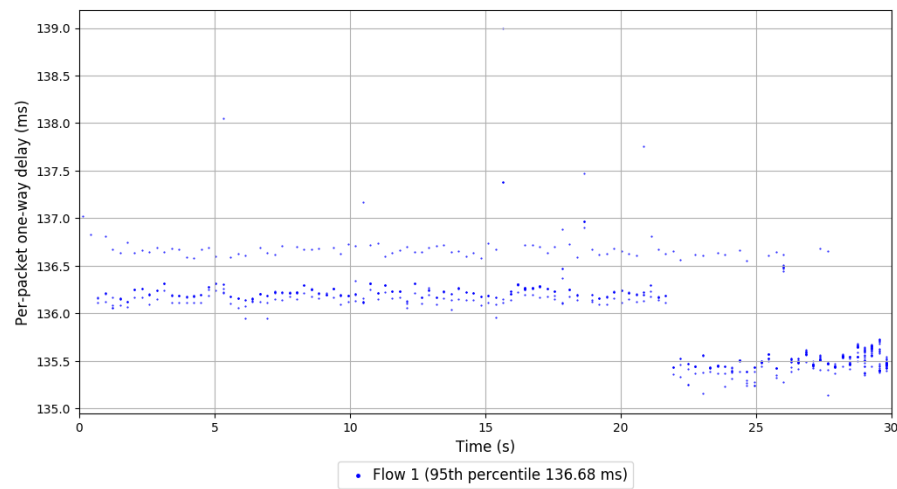
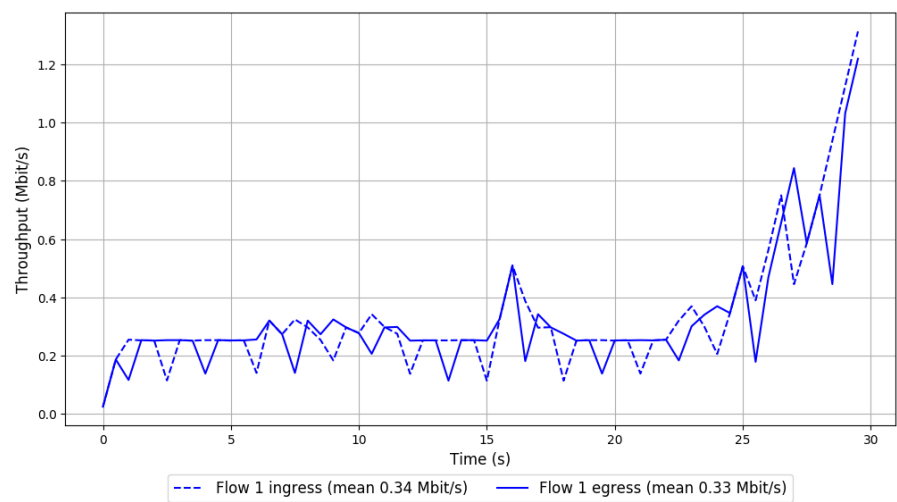
-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 136.679 ms

Loss rate: 3.38%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-17 20:39:30

End at: 2018-04-17 20:40:00

Below is generated by plot.py at 2018-04-17 23:39:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 136.534 ms

Loss rate: 0.98%

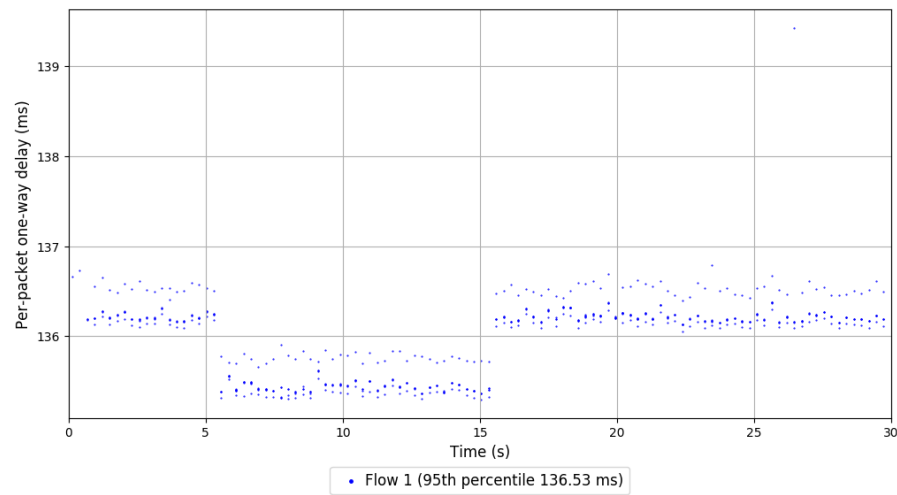
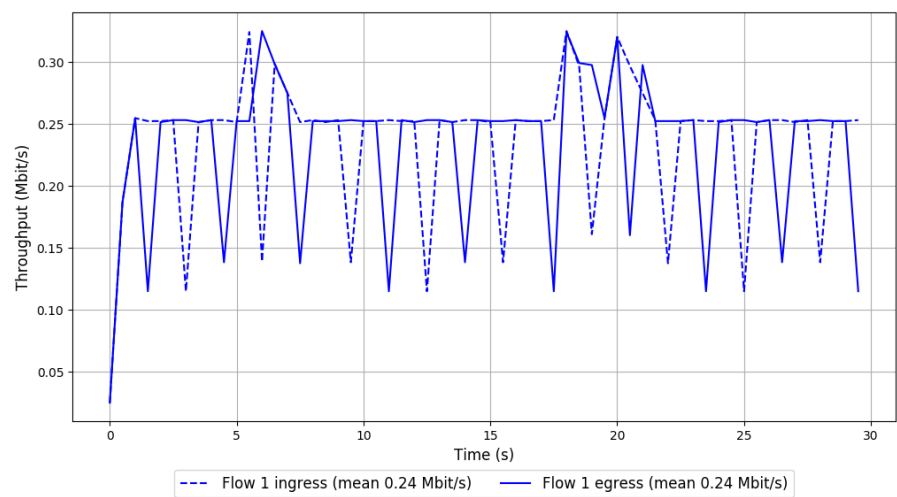
-- Flow 1:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 136.534 ms

Loss rate: 0.98%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-04-17 20:53:59

End at: 2018-04-17 20:54:29

Below is generated by plot.py at 2018-04-17 23:39:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 136.645 ms

Loss rate: 1.83%

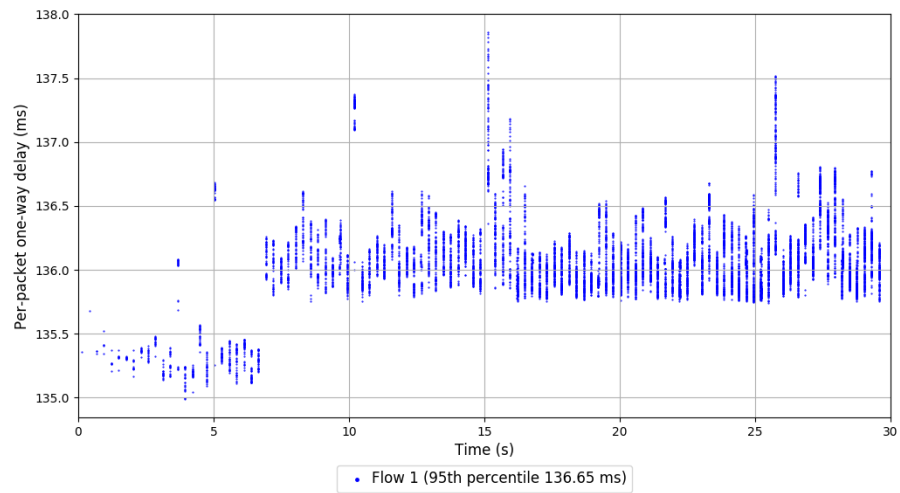
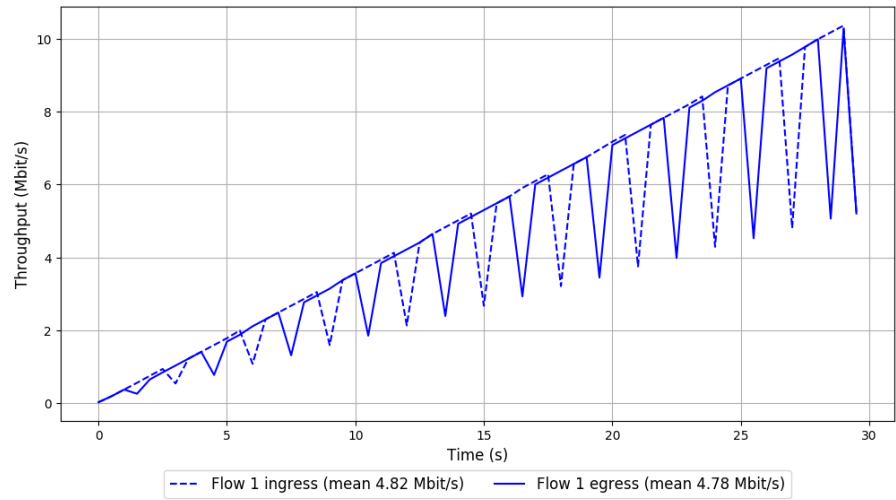
-- Flow 1:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 136.645 ms

Loss rate: 1.83%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-17 21:08:28

End at: 2018-04-17 21:08:58

Below is generated by plot.py at 2018-04-17 23:39:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.83 Mbit/s

95th percentile per-packet one-way delay: 136.521 ms

Loss rate: 1.82%

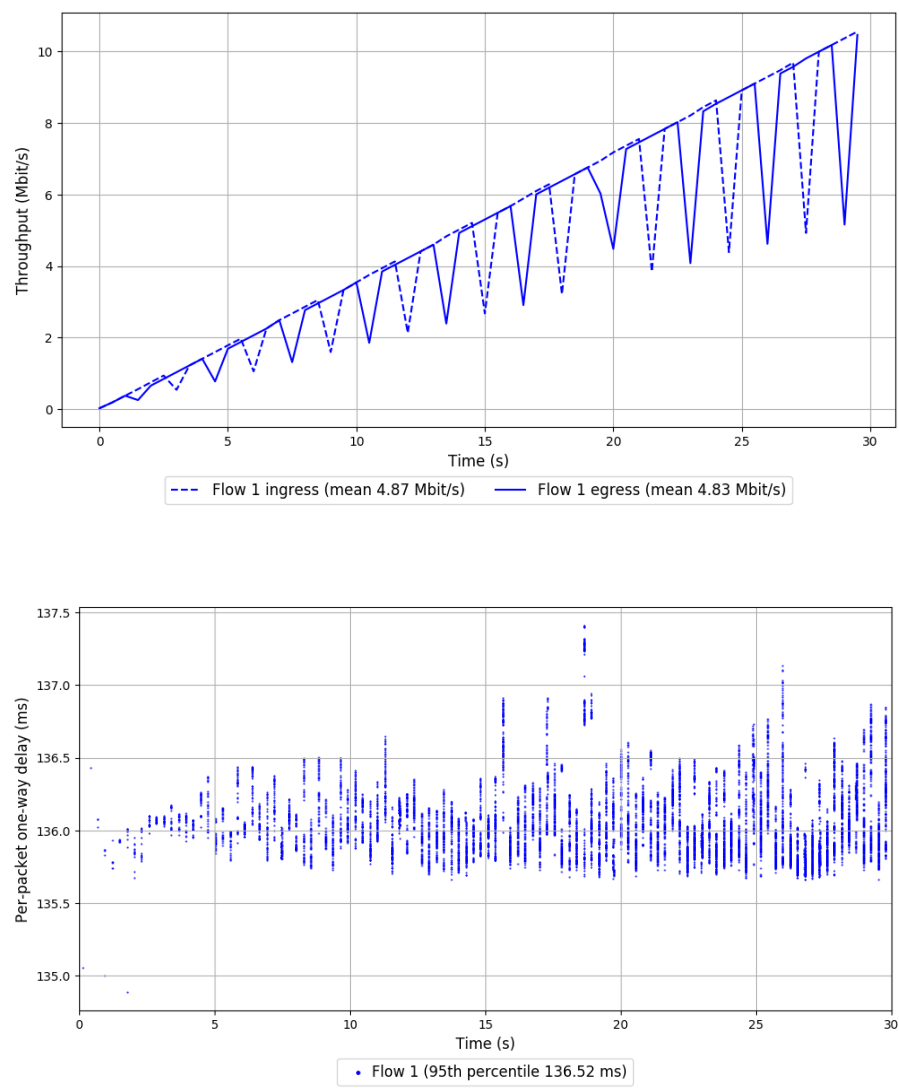
-- Flow 1:

Average throughput: 4.83 Mbit/s

95th percentile per-packet one-way delay: 136.521 ms

Loss rate: 1.82%

Run 10: Report of LEDBAT — Data Link

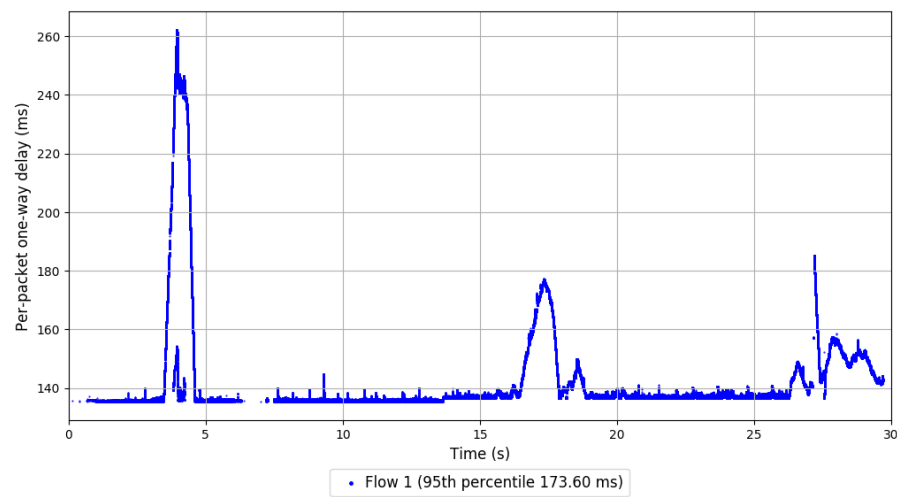
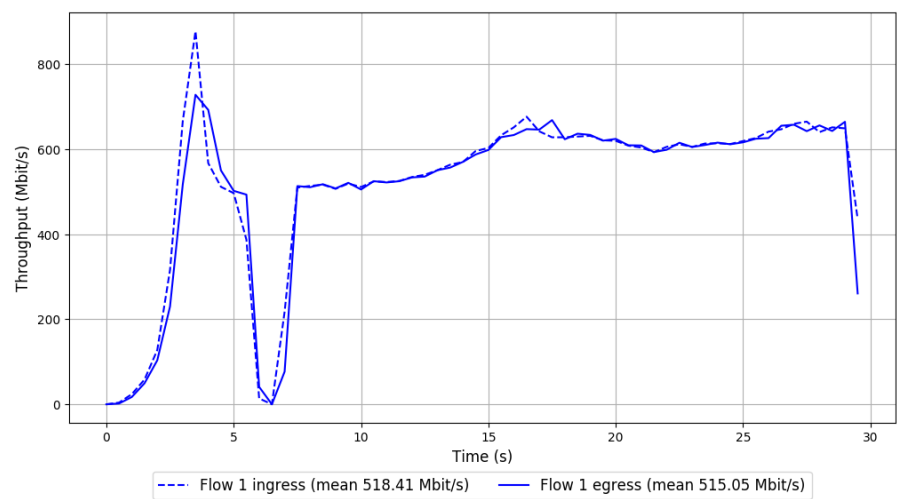


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-04-17 18:58:01
End at: 2018-04-17 18:58:31

# Below is generated by plot.py at 2018-04-17 23:47:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 515.05 Mbit/s
95th percentile per-packet one-way delay: 173.604 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 515.05 Mbit/s
95th percentile per-packet one-way delay: 173.604 ms
Loss rate: 1.55%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-04-17 19:12:07

End at: 2018-04-17 19:12:37

Below is generated by plot.py at 2018-04-17 23:47:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 513.41 Mbit/s

95th percentile per-packet one-way delay: 211.950 ms

Loss rate: 2.49%

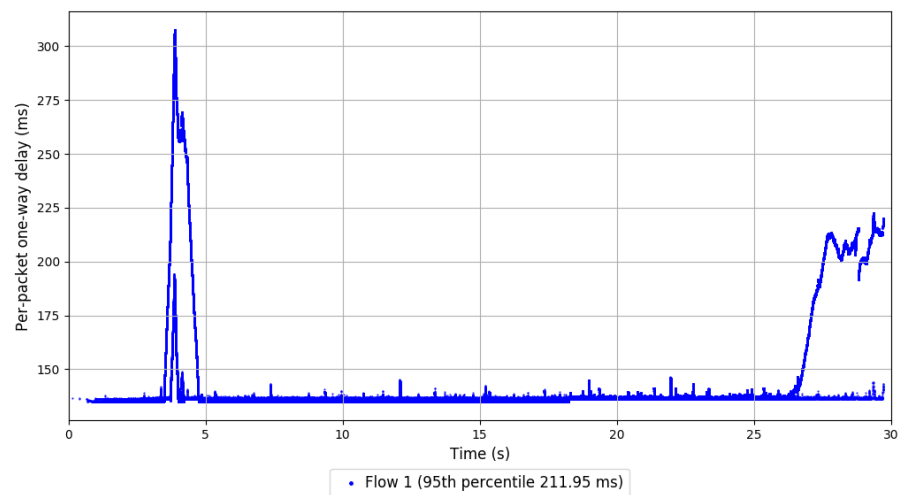
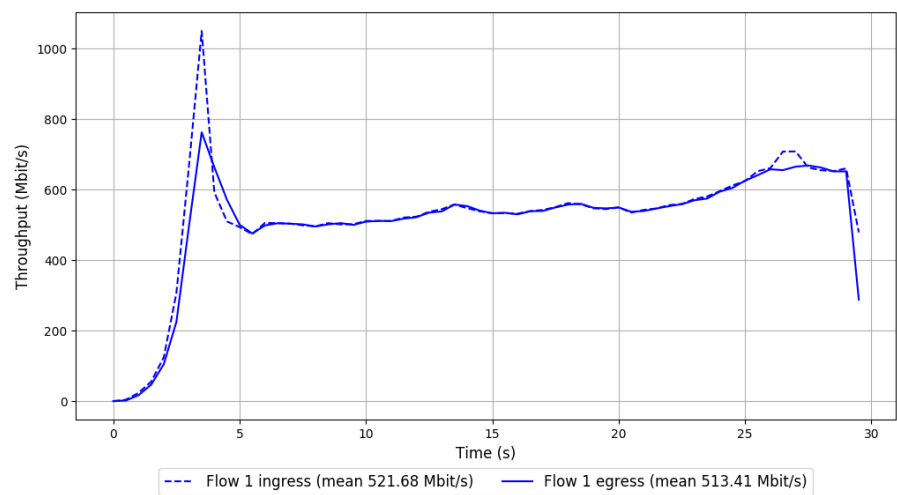
-- Flow 1:

Average throughput: 513.41 Mbit/s

95th percentile per-packet one-way delay: 211.950 ms

Loss rate: 2.49%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-04-17 19:26:17

End at: 2018-04-17 19:26:47

Below is generated by plot.py at 2018-04-17 23:47:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 558.18 Mbit/s

95th percentile per-packet one-way delay: 156.878 ms

Loss rate: 1.97%

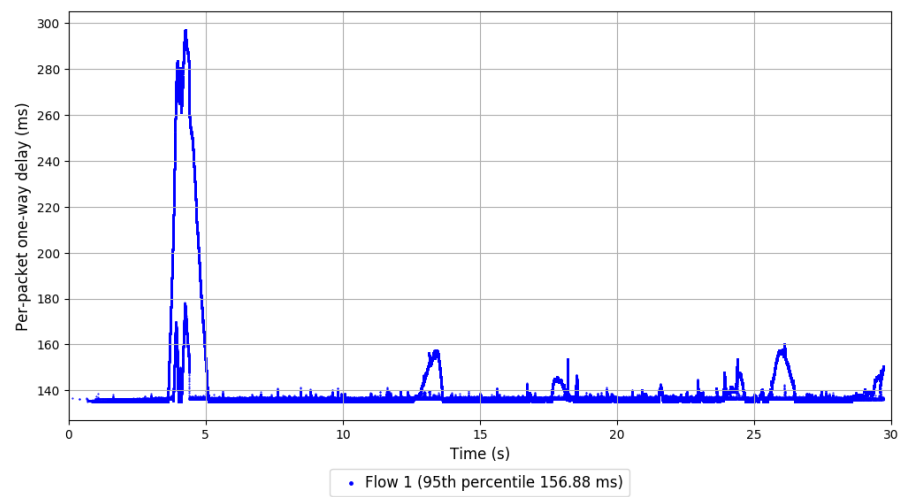
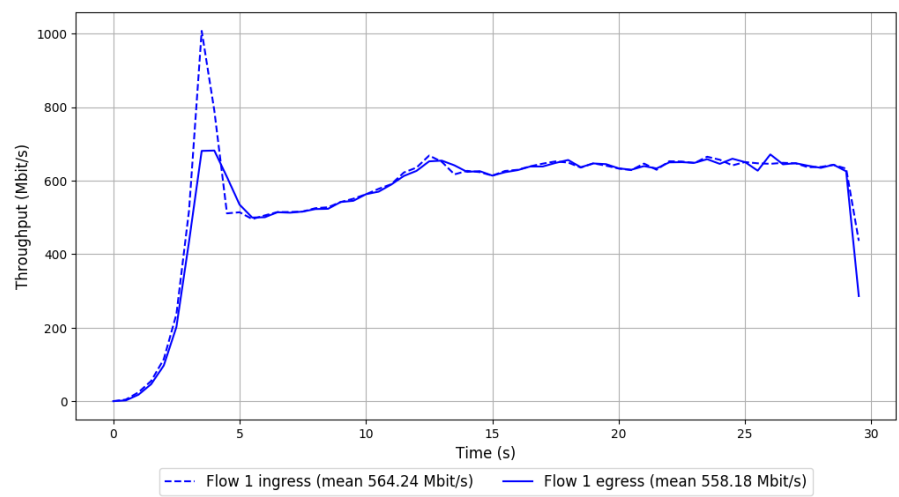
-- Flow 1:

Average throughput: 558.18 Mbit/s

95th percentile per-packet one-way delay: 156.878 ms

Loss rate: 1.97%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-04-17 19:40:28

End at: 2018-04-17 19:40:58

Below is generated by plot.py at 2018-04-17 23:47:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 558.29 Mbit/s

95th percentile per-packet one-way delay: 248.318 ms

Loss rate: 1.92%

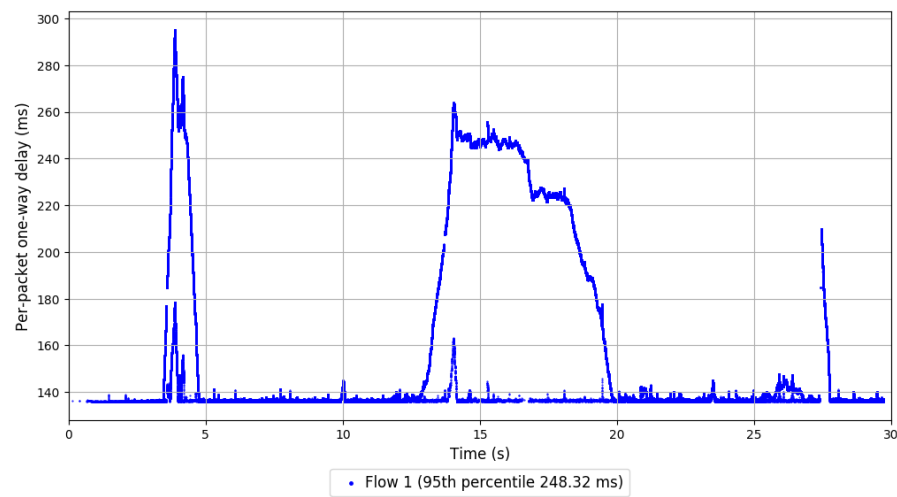
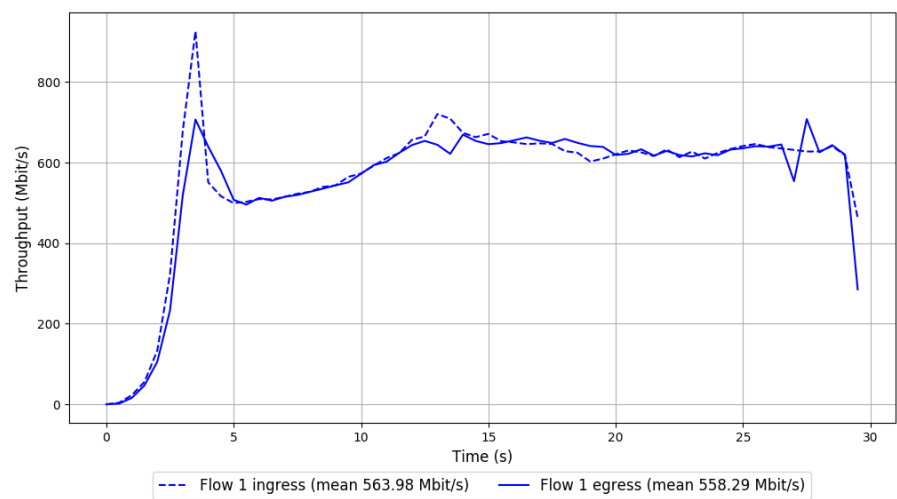
-- Flow 1:

Average throughput: 558.29 Mbit/s

95th percentile per-packet one-way delay: 248.318 ms

Loss rate: 1.92%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-04-17 19:54:59

End at: 2018-04-17 19:55:29

Below is generated by plot.py at 2018-04-17 23:47:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 539.57 Mbit/s

95th percentile per-packet one-way delay: 169.568 ms

Loss rate: 1.76%

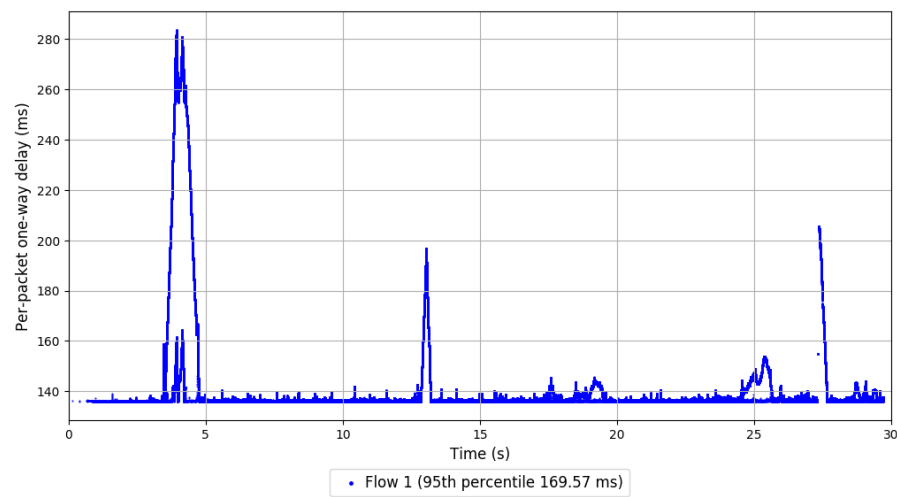
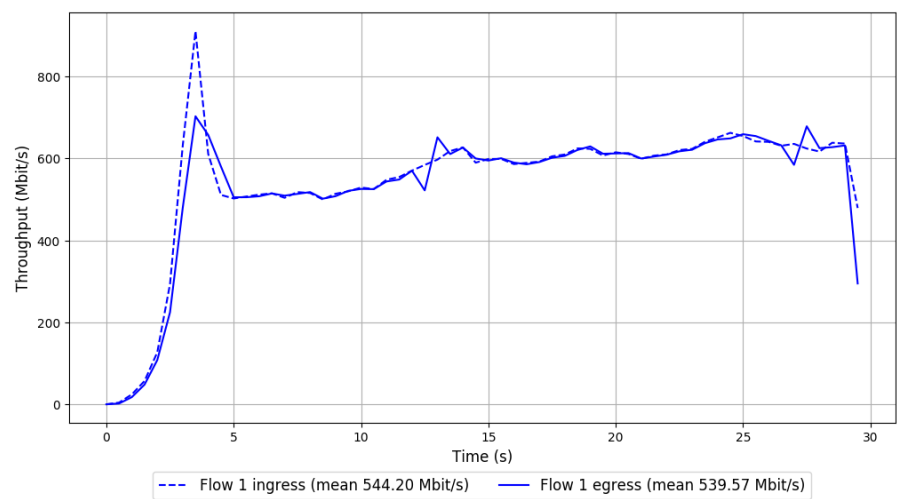
-- Flow 1:

Average throughput: 539.57 Mbit/s

95th percentile per-packet one-way delay: 169.568 ms

Loss rate: 1.76%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-04-17 20:09:29

End at: 2018-04-17 20:09:59

Below is generated by plot.py at 2018-04-17 23:48:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 542.38 Mbit/s

95th percentile per-packet one-way delay: 191.663 ms

Loss rate: 1.64%

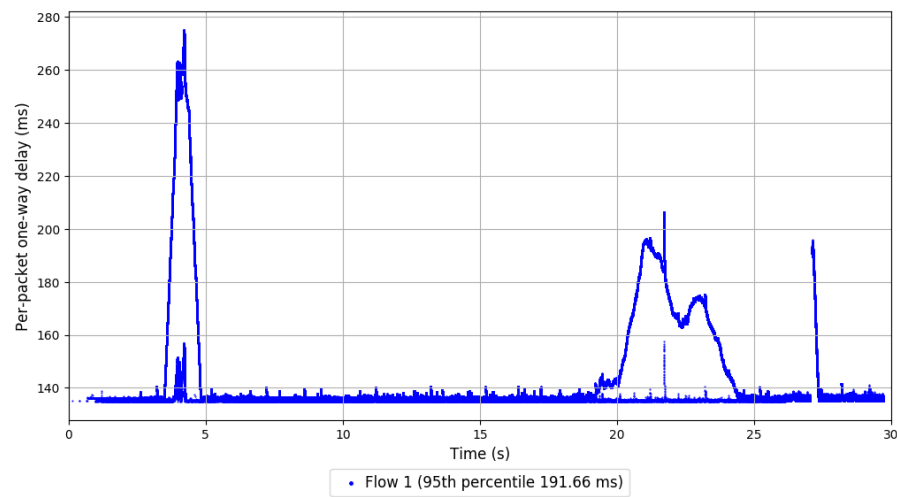
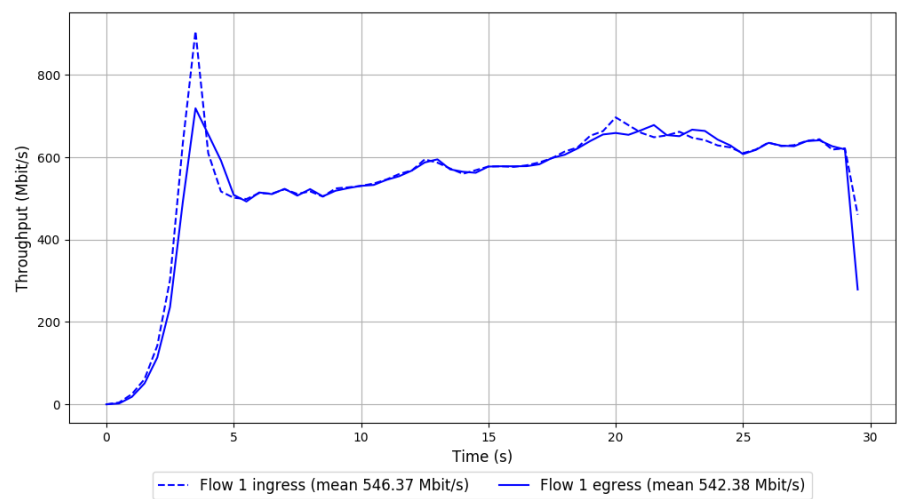
-- Flow 1:

Average throughput: 542.38 Mbit/s

95th percentile per-packet one-way delay: 191.663 ms

Loss rate: 1.64%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-04-17 20:24:00

End at: 2018-04-17 20:24:30

Below is generated by plot.py at 2018-04-17 23:48:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 503.81 Mbit/s

95th percentile per-packet one-way delay: 170.512 ms

Loss rate: 1.72%

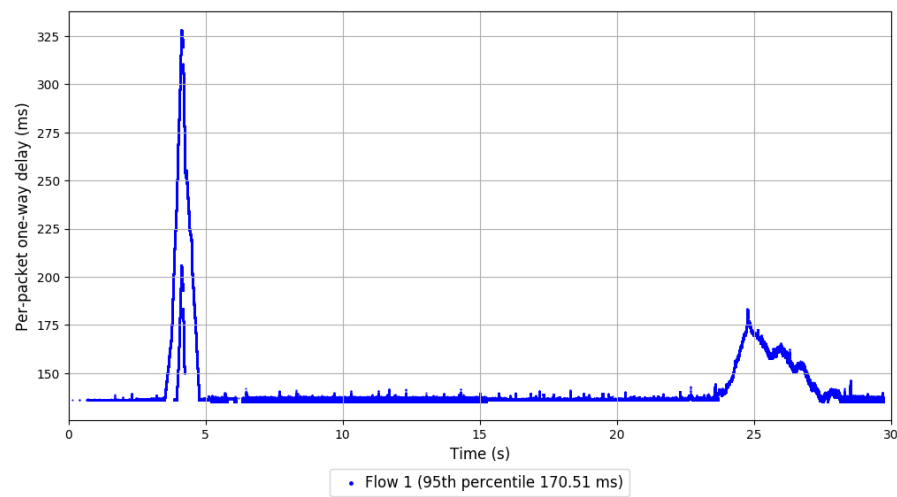
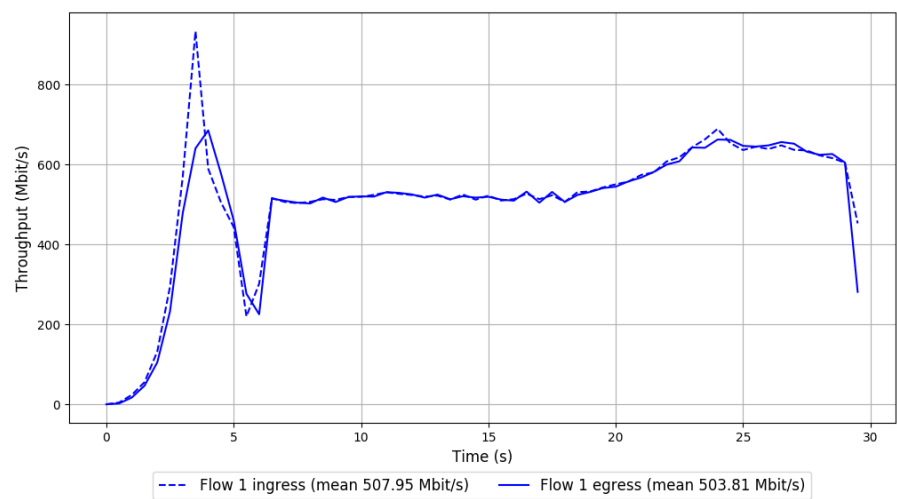
-- Flow 1:

Average throughput: 503.81 Mbit/s

95th percentile per-packet one-way delay: 170.512 ms

Loss rate: 1.72%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-04-17 20:38:24

End at: 2018-04-17 20:38:54

Below is generated by plot.py at 2018-04-17 23:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 548.51 Mbit/s

95th percentile per-packet one-way delay: 162.522 ms

Loss rate: 1.51%

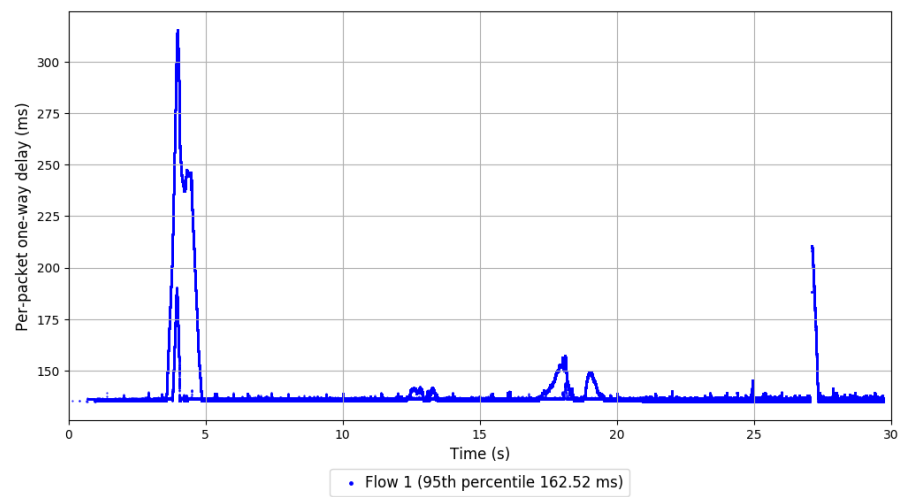
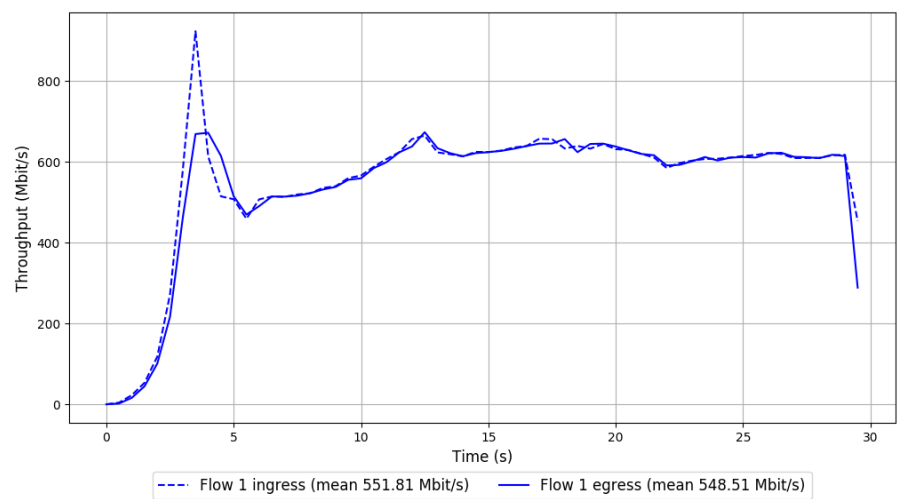
-- Flow 1:

Average throughput: 548.51 Mbit/s

95th percentile per-packet one-way delay: 162.522 ms

Loss rate: 1.51%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-04-17 20:52:54

End at: 2018-04-17 20:53:24

Below is generated by plot.py at 2018-04-17 23:56:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 529.94 Mbit/s

95th percentile per-packet one-way delay: 162.042 ms

Loss rate: 1.42%

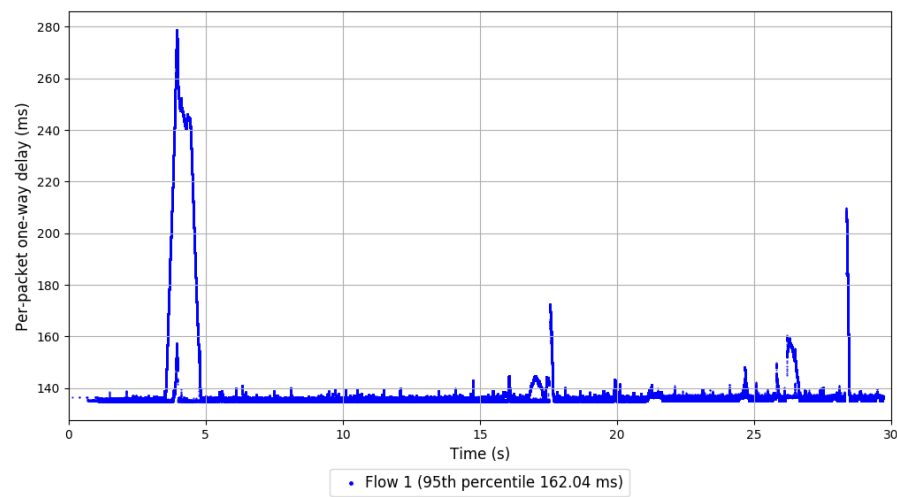
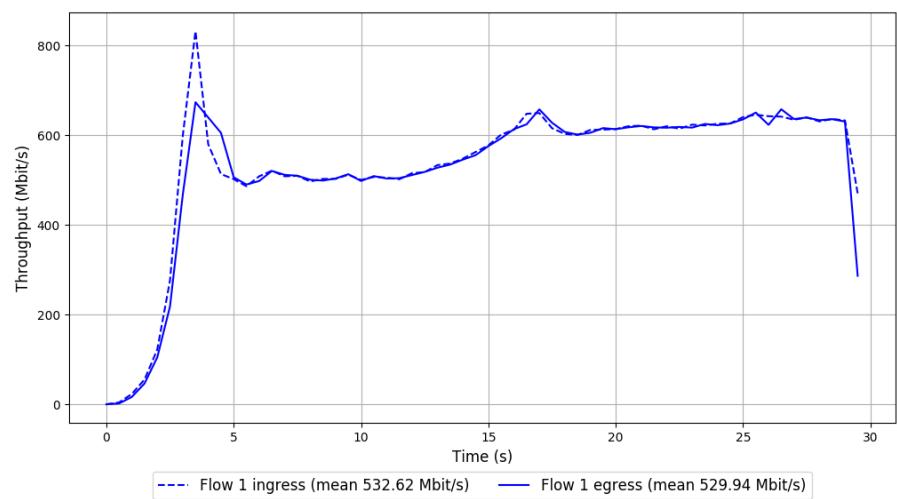
-- Flow 1:

Average throughput: 529.94 Mbit/s

95th percentile per-packet one-way delay: 162.042 ms

Loss rate: 1.42%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-04-17 21:07:24

End at: 2018-04-17 21:07:54

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 537.71 Mbit/s

95th percentile per-packet one-way delay: 176.201 ms

Loss rate: 1.14%

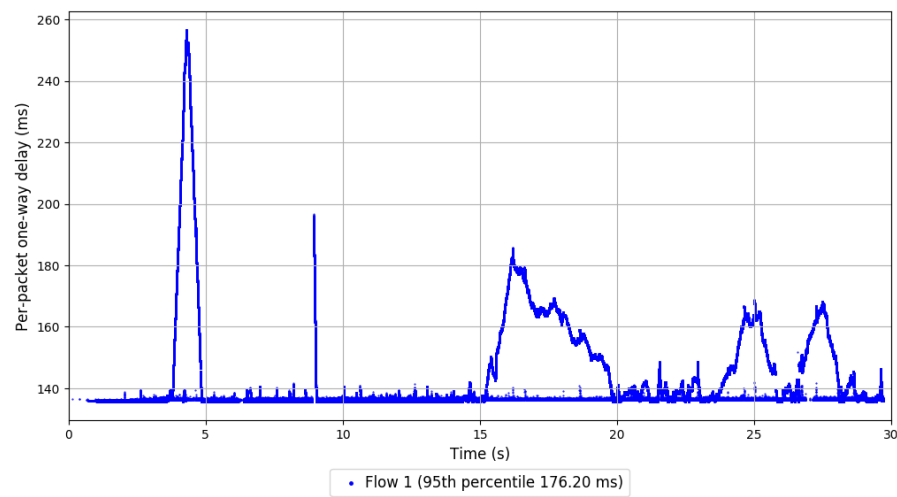
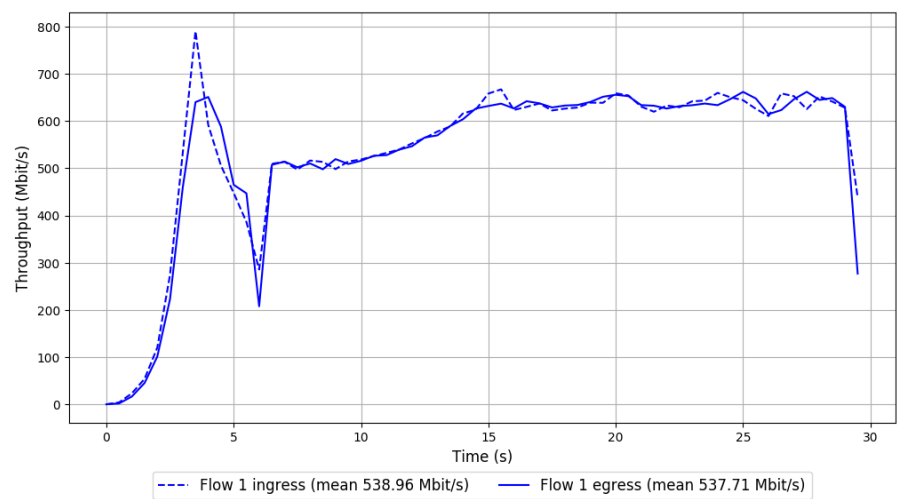
-- Flow 1:

Average throughput: 537.71 Mbit/s

95th percentile per-packet one-way delay: 176.201 ms

Loss rate: 1.14%

Run 10: Report of PCC-Allegro — Data Link

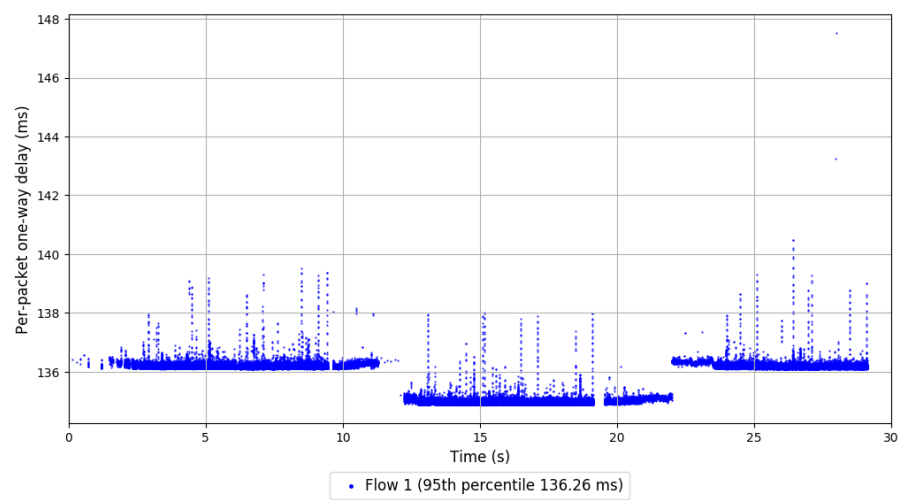
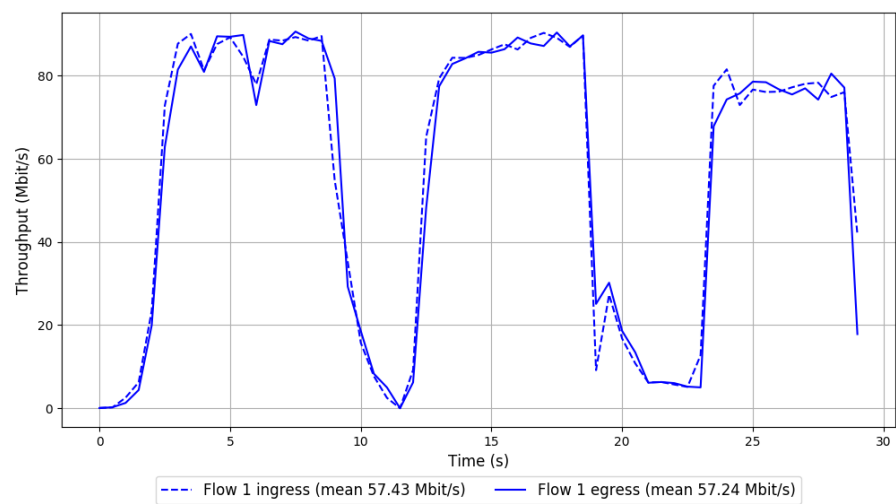


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-04-17 18:46:02
End at: 2018-04-17 18:46:32

# Below is generated by plot.py at 2018-04-17 23:56:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.24 Mbit/s
95th percentile per-packet one-way delay: 136.263 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 57.24 Mbit/s
95th percentile per-packet one-way delay: 136.263 ms
Loss rate: 1.26%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-17 19:00:30

End at: 2018-04-17 19:01:00

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.22 Mbit/s

95th percentile per-packet one-way delay: 135.802 ms

Loss rate: 1.22%

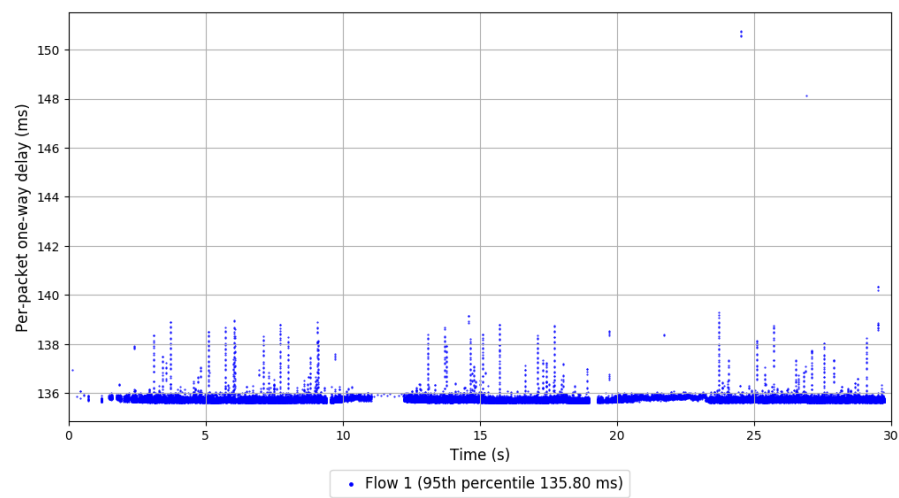
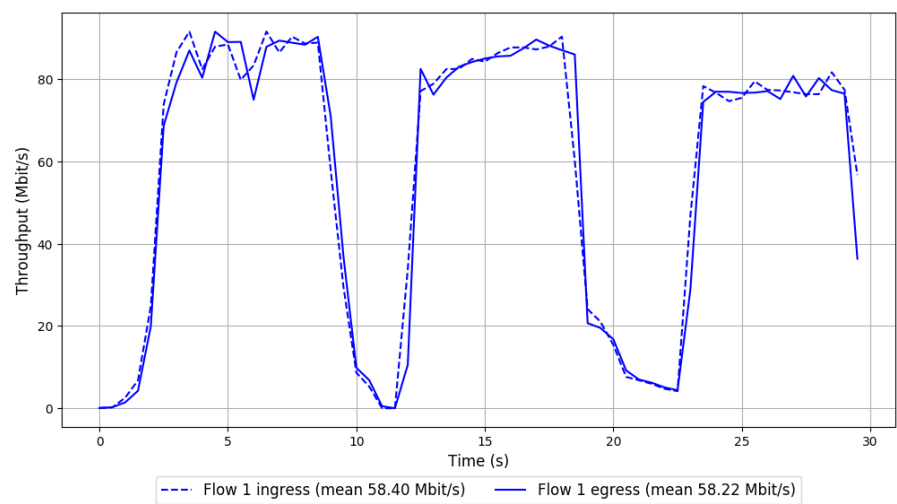
-- Flow 1:

Average throughput: 58.22 Mbit/s

95th percentile per-packet one-way delay: 135.802 ms

Loss rate: 1.22%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-17 19:14:36

End at: 2018-04-17 19:15:06

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.54 Mbit/s

95th percentile per-packet one-way delay: 135.206 ms

Loss rate: 1.15%

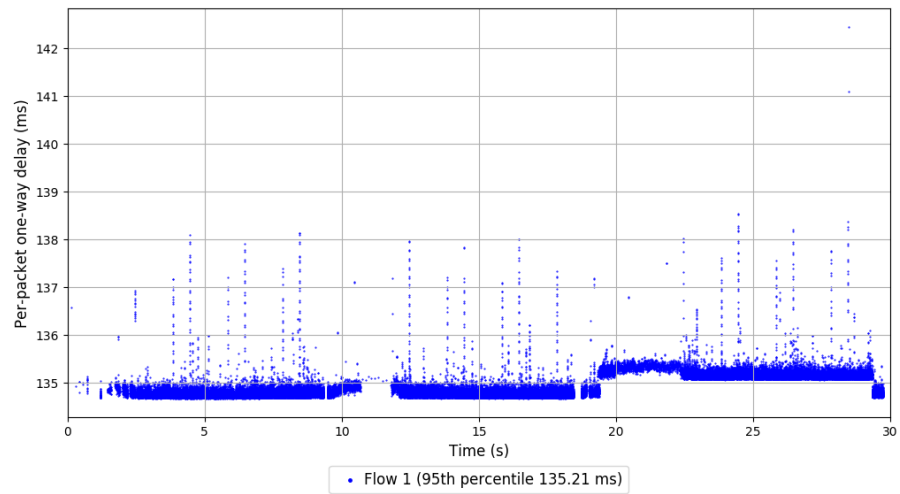
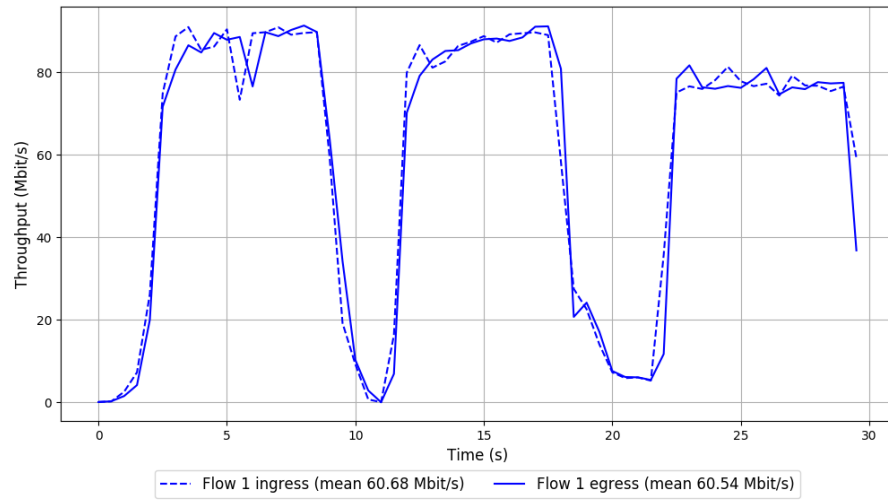
-- Flow 1:

Average throughput: 60.54 Mbit/s

95th percentile per-packet one-way delay: 135.206 ms

Loss rate: 1.15%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-17 19:28:48

End at: 2018-04-17 19:29:18

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.79 Mbit/s

95th percentile per-packet one-way delay: 136.528 ms

Loss rate: 1.14%

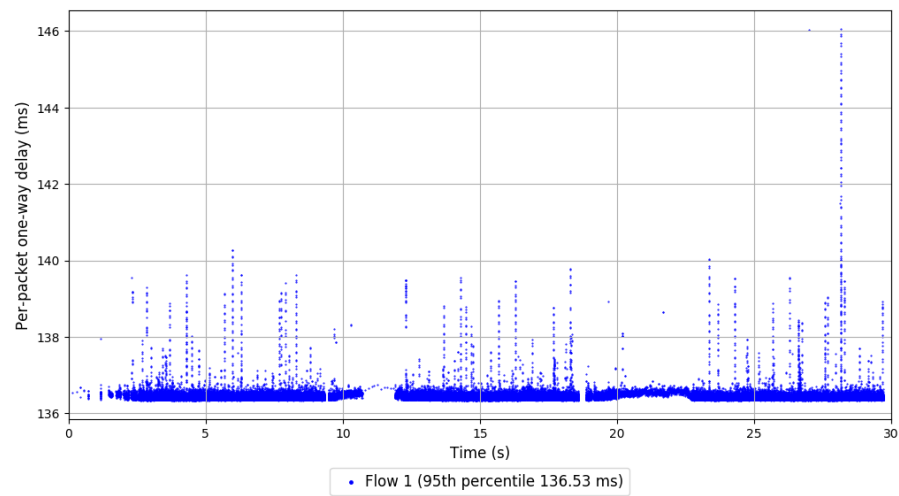
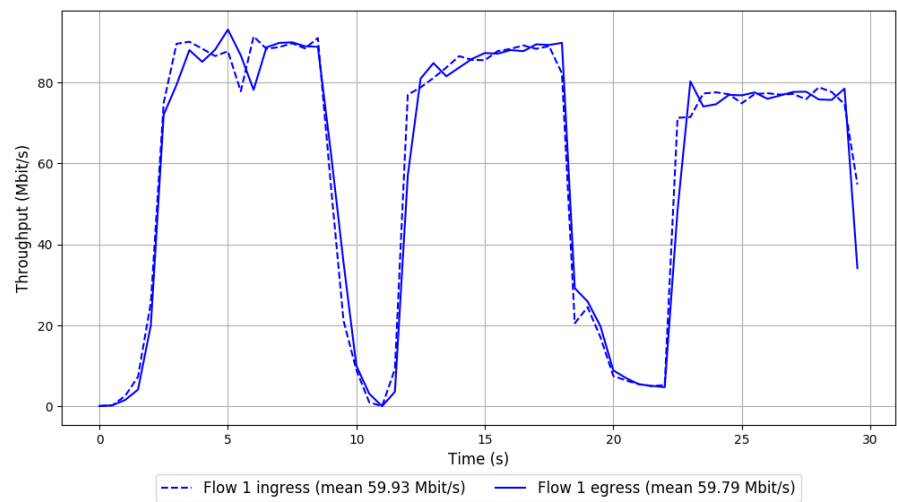
-- Flow 1:

Average throughput: 59.79 Mbit/s

95th percentile per-packet one-way delay: 136.528 ms

Loss rate: 1.14%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-17 19:42:59

End at: 2018-04-17 19:43:29

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.73 Mbit/s

95th percentile per-packet one-way delay: 136.272 ms

Loss rate: 1.19%

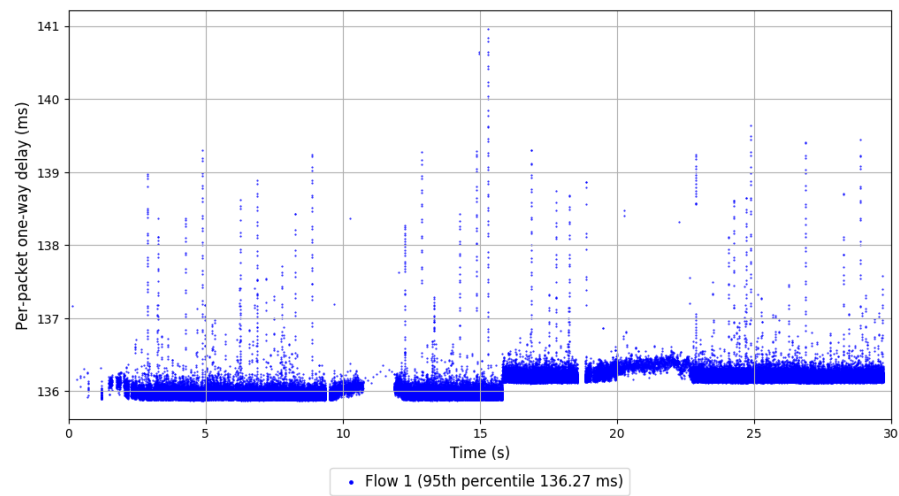
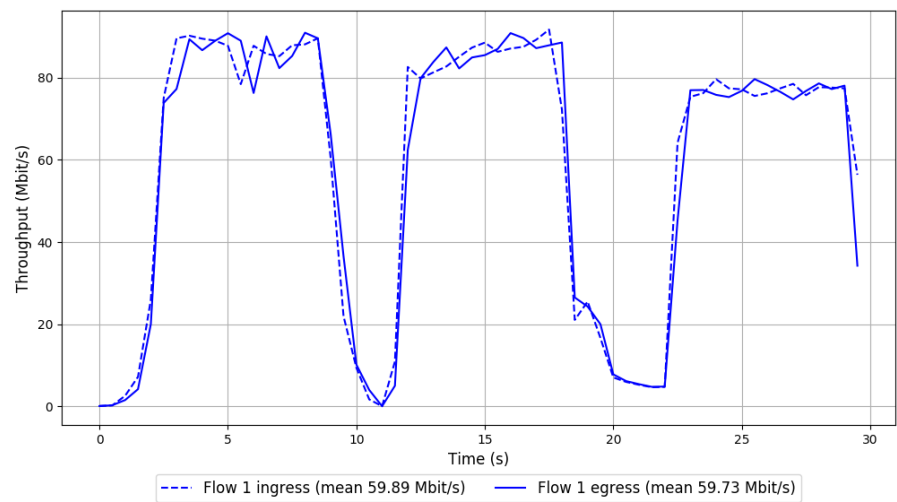
-- Flow 1:

Average throughput: 59.73 Mbit/s

95th percentile per-packet one-way delay: 136.272 ms

Loss rate: 1.19%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-17 19:57:28

End at: 2018-04-17 19:57:58

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.01 Mbit/s

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

Loss rate: 1.19%

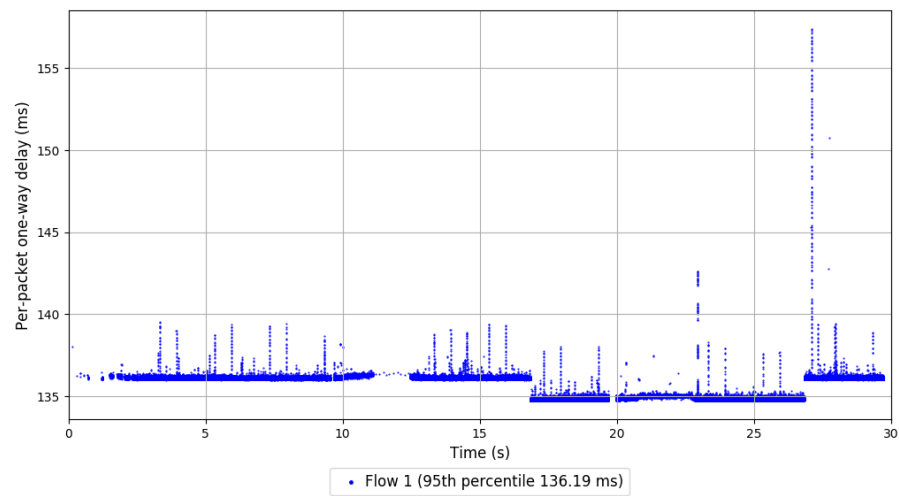
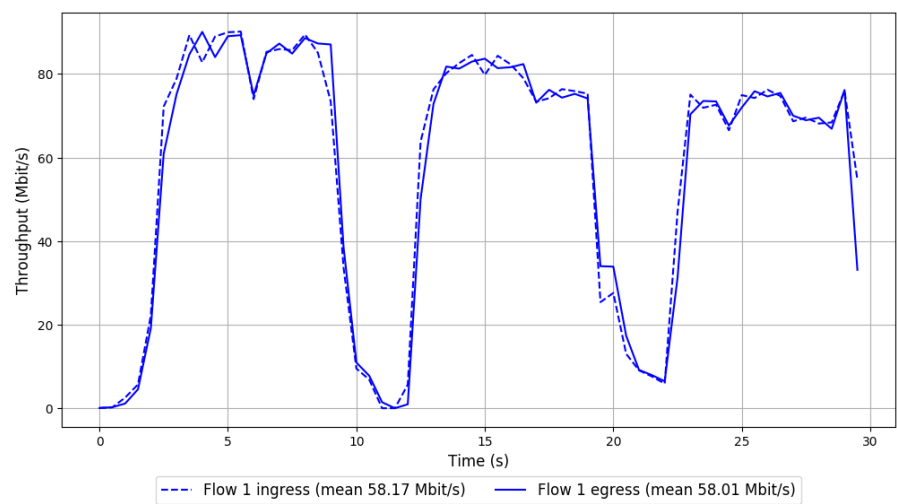
-- Flow 1:

Average throughput: 58.01 Mbit/s

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

Loss rate: 1.19%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-17 20:11:58

End at: 2018-04-17 20:12:28

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.86 Mbit/s

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

Loss rate: 1.36%

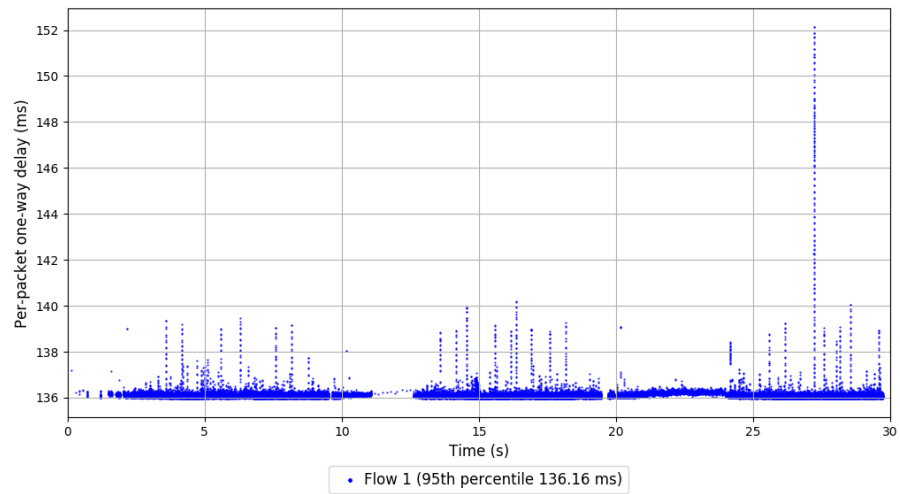
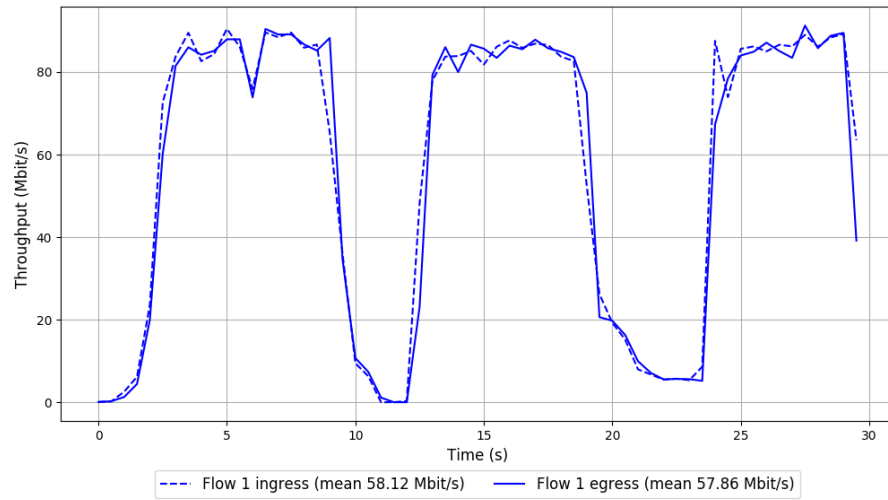
-- Flow 1:

Average throughput: 57.86 Mbit/s

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

Loss rate: 1.36%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-17 20:26:28

End at: 2018-04-17 20:26:58

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.59 Mbit/s

95th percentile per-packet one-way delay: 136.087 ms

Loss rate: 1.34%

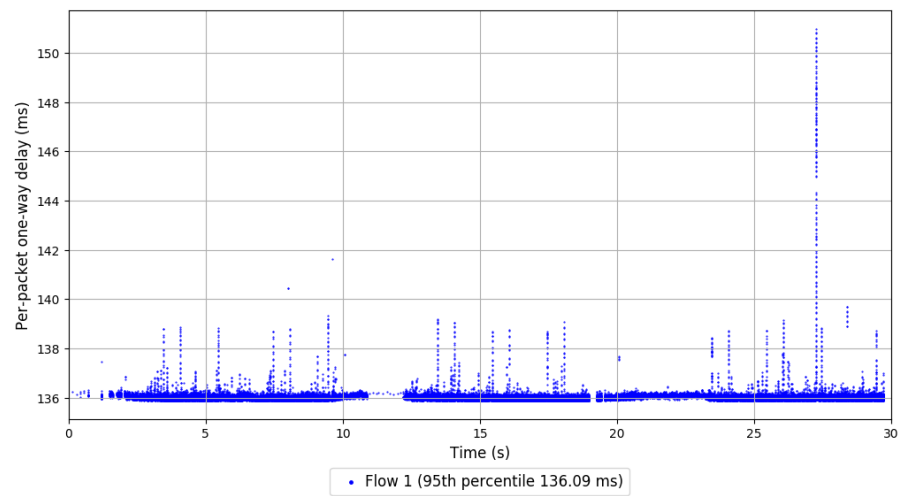
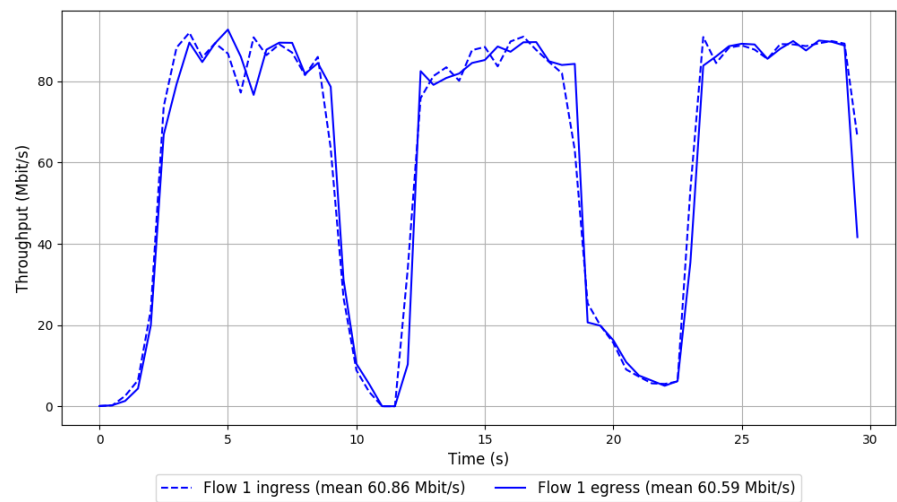
-- Flow 1:

Average throughput: 60.59 Mbit/s

95th percentile per-packet one-way delay: 136.087 ms

Loss rate: 1.34%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-17 20:40:54

End at: 2018-04-17 20:41:24

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.60 Mbit/s

95th percentile per-packet one-way delay: 136.228 ms

Loss rate: 1.19%

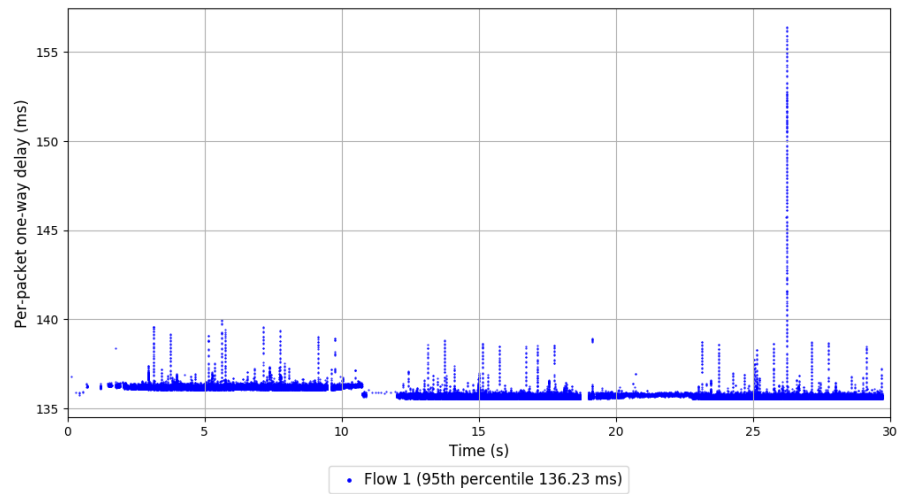
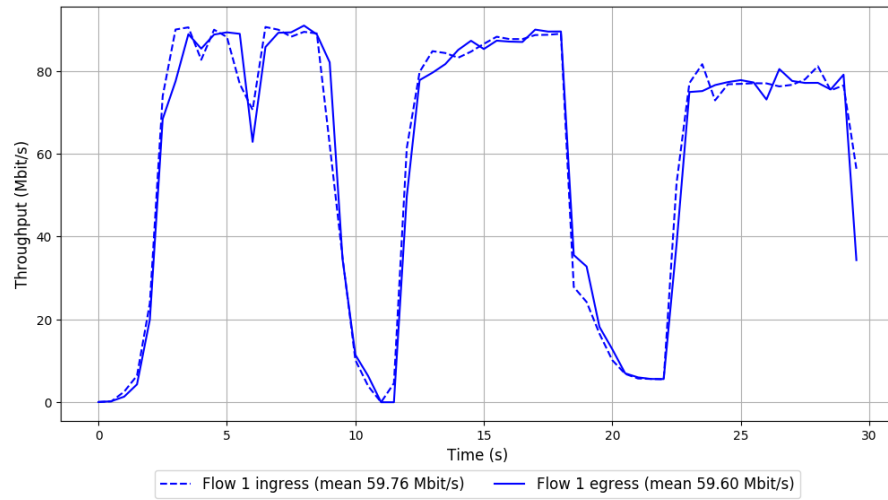
-- Flow 1:

Average throughput: 59.60 Mbit/s

95th percentile per-packet one-way delay: 136.228 ms

Loss rate: 1.19%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-04-17 20:55:24

End at: 2018-04-17 20:55:54

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.76 Mbit/s

95th percentile per-packet one-way delay: 136.093 ms

Loss rate: 1.20%

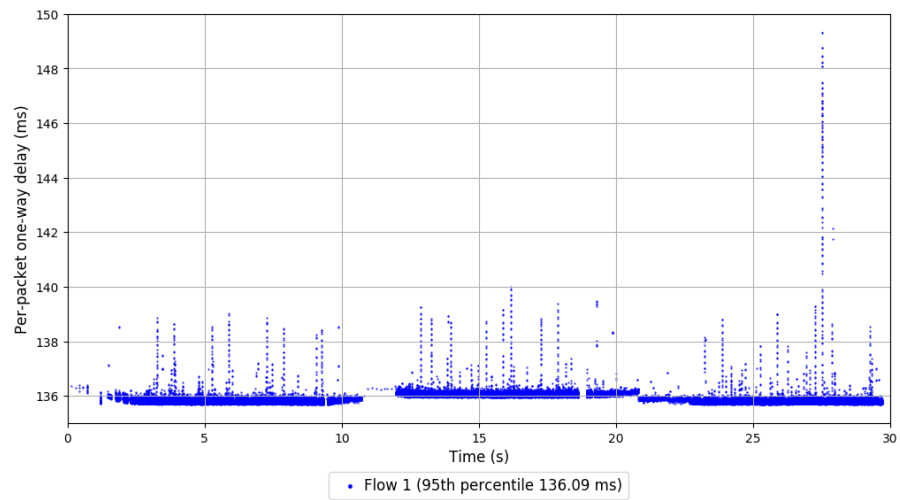
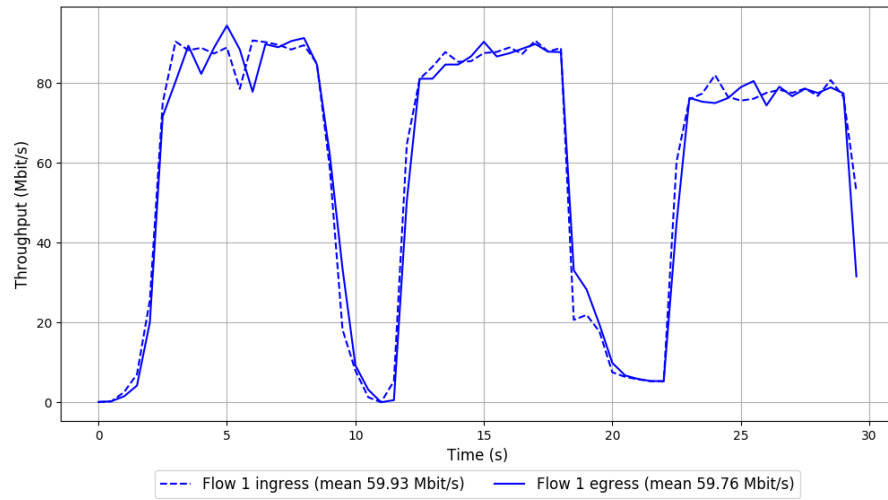
-- Flow 1:

Average throughput: 59.76 Mbit/s

95th percentile per-packet one-way delay: 136.093 ms

Loss rate: 1.20%

Run 10: Report of QUIC Cubic — Data Link

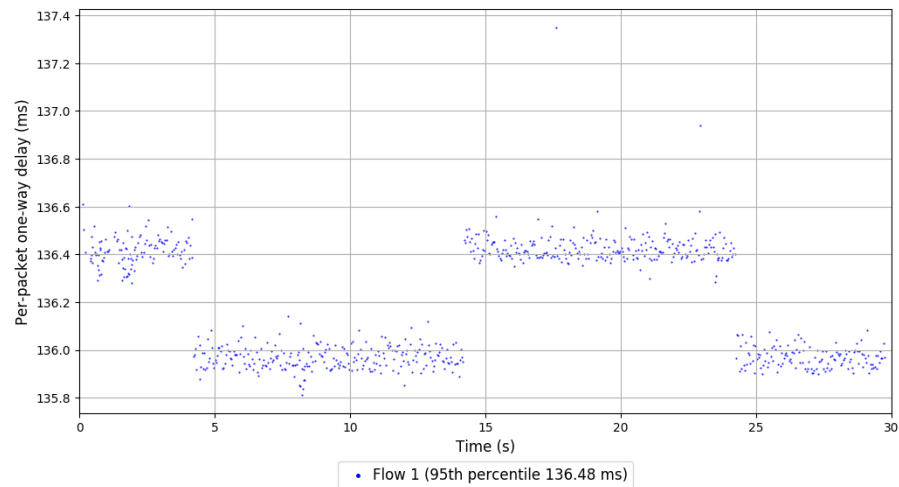
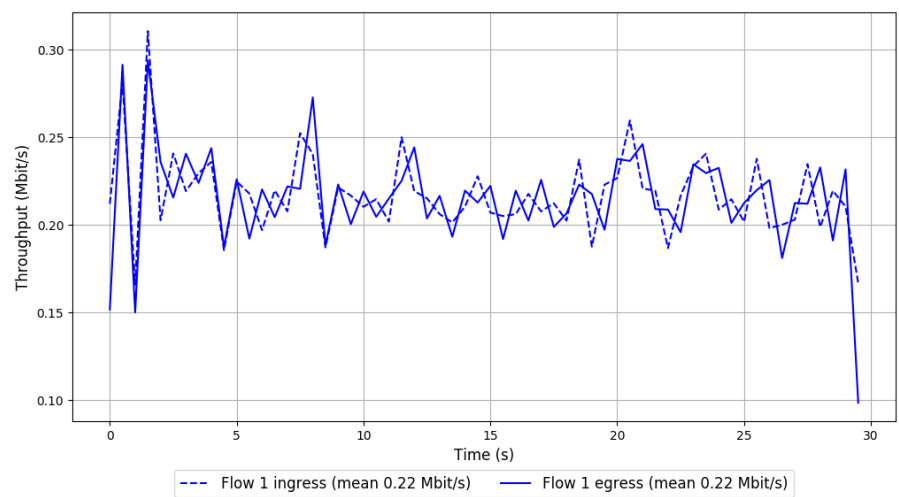


```
Run 1: Statistics of SCReAM

Start at: 2018-04-17 18:53:01
End at: 2018-04-17 18:53:31

# Below is generated by plot.py at 2018-04-17 23:56:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.476 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.476 ms
Loss rate: 0.90%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-04-17 19:07:27

End at: 2018-04-17 19:07:57

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.368 ms

Loss rate: 0.89%

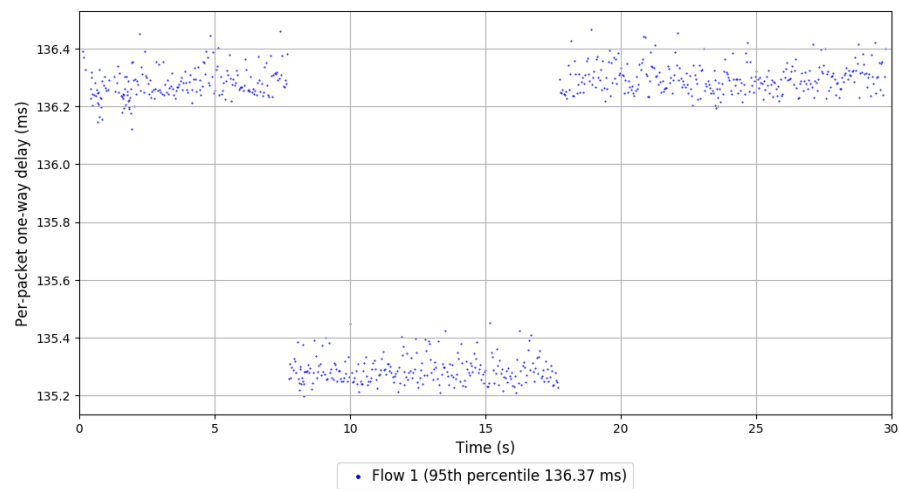
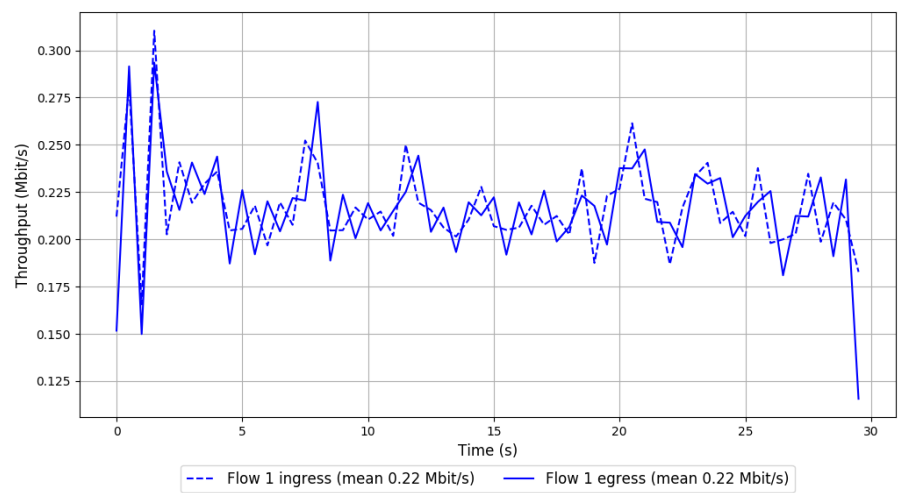
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.368 ms

Loss rate: 0.89%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-04-17 19:21:41

End at: 2018-04-17 19:22:11

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.564 ms

Loss rate: 0.89%

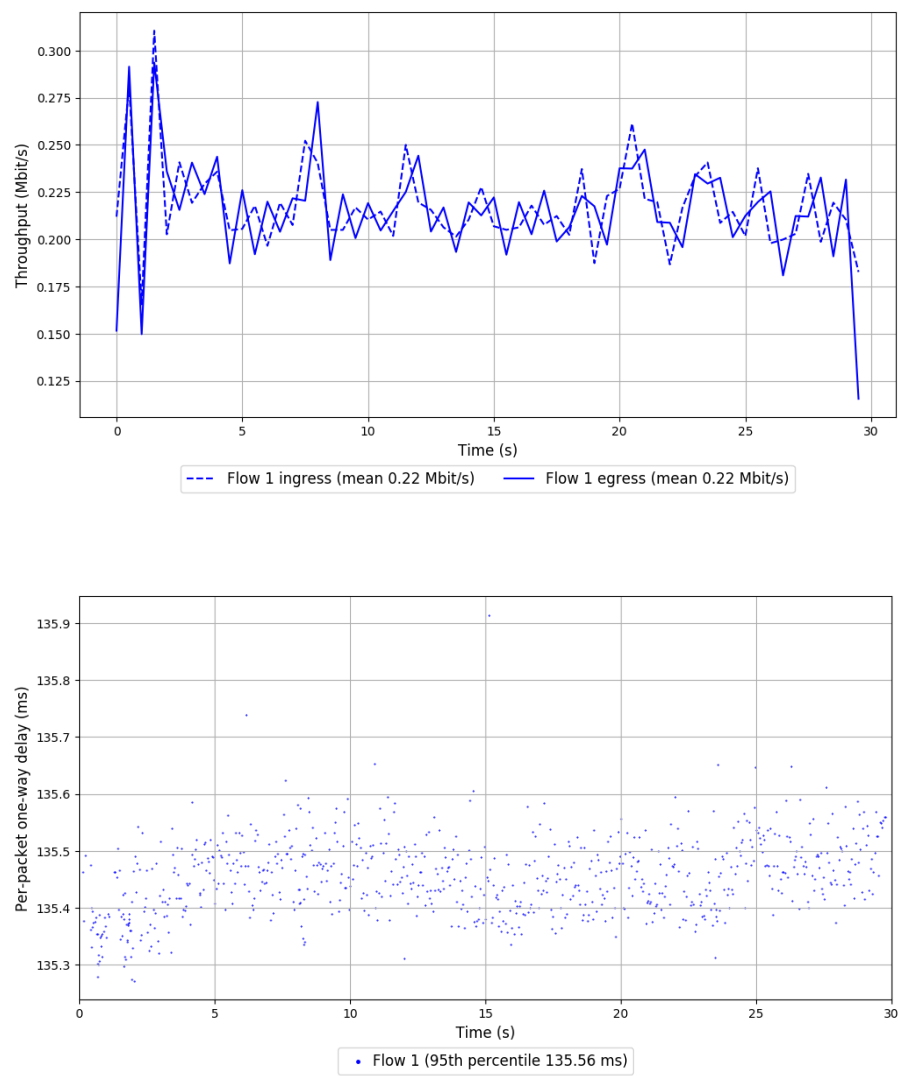
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.564 ms

Loss rate: 0.89%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-04-17 19:35:50

End at: 2018-04-17 19:36:20

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.497 ms

Loss rate: 0.89%

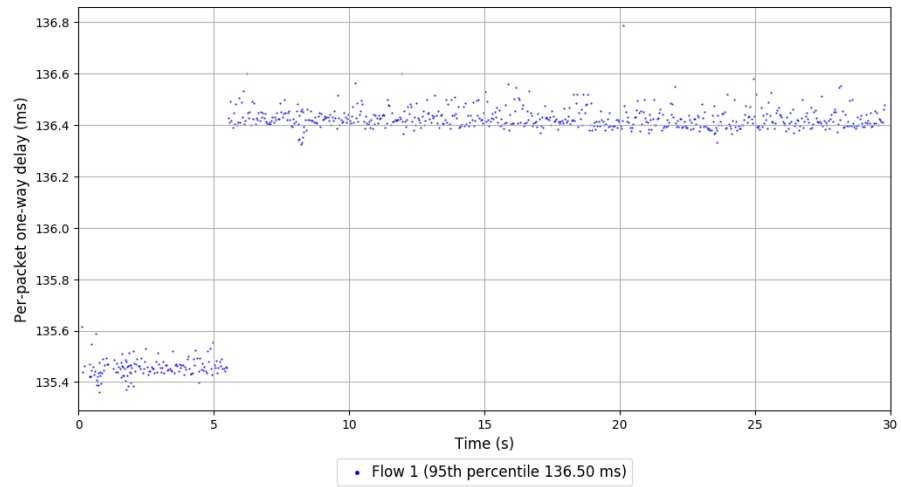
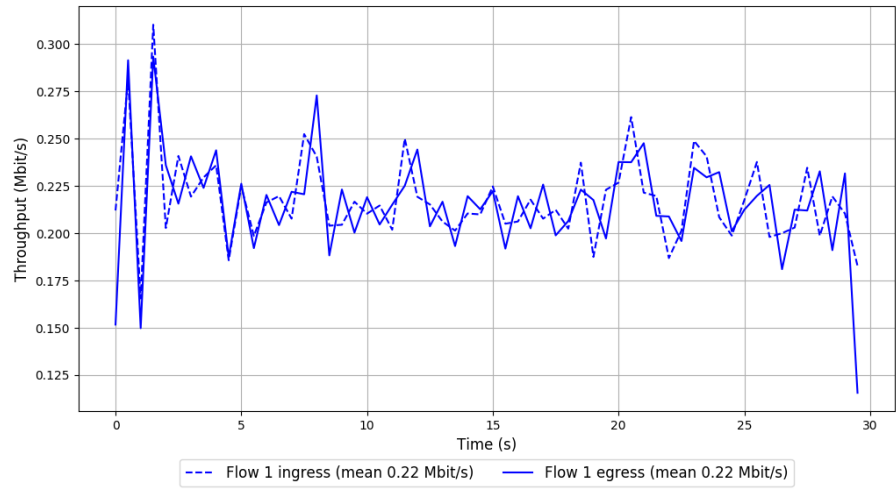
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.497 ms

Loss rate: 0.89%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-04-17 19:50:07

End at: 2018-04-17 19:50:37

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.993 ms

Loss rate: 0.77%

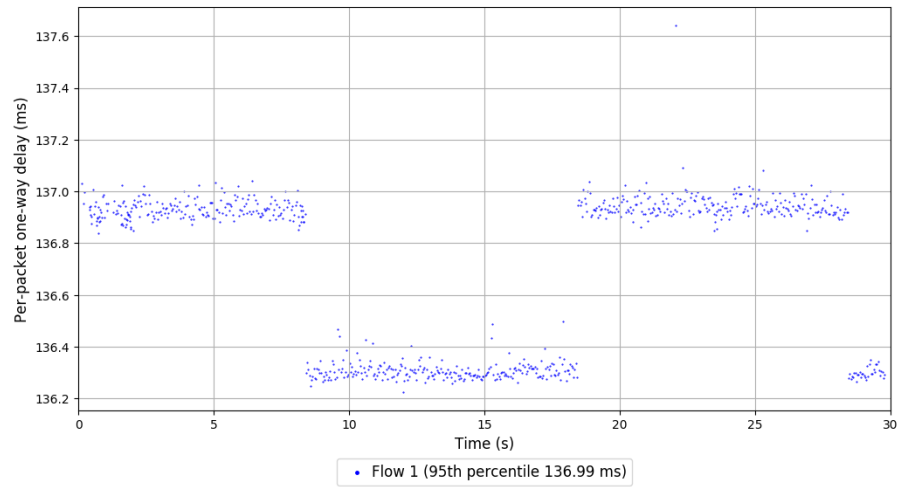
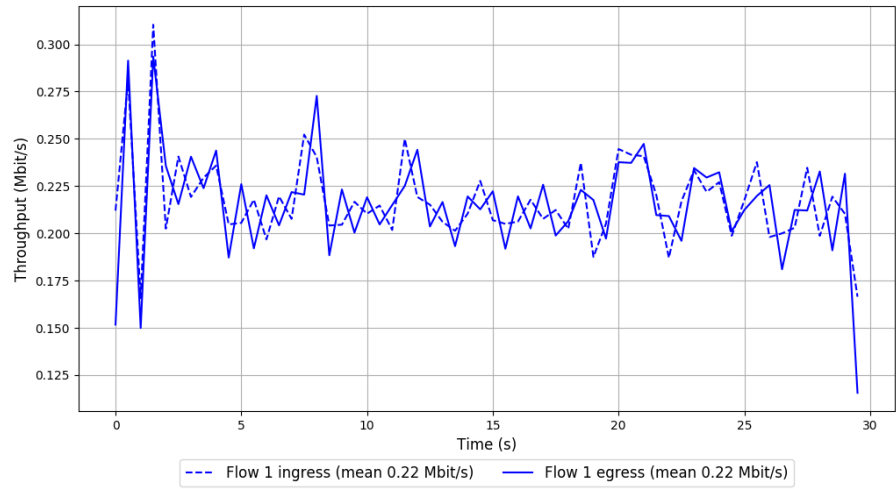
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.993 ms

Loss rate: 0.77%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-04-17 20:04:29

End at: 2018-04-17 20:04:59

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.732 ms

Loss rate: 1.02%

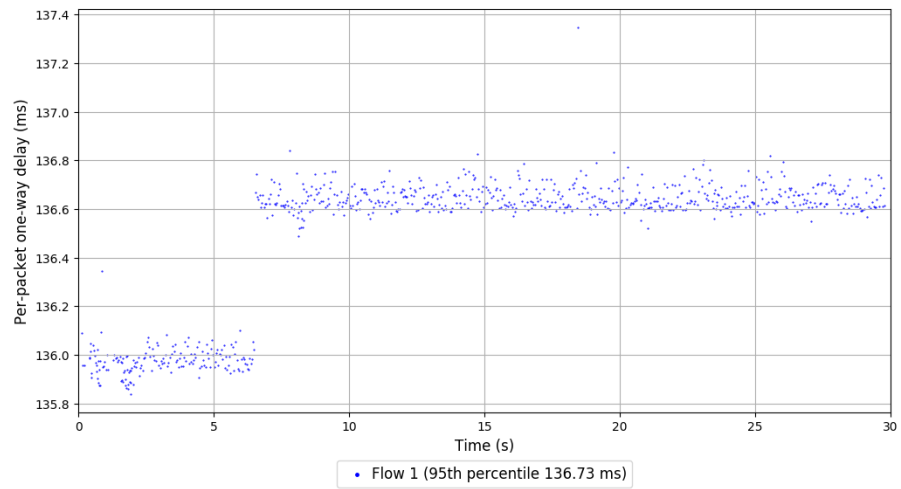
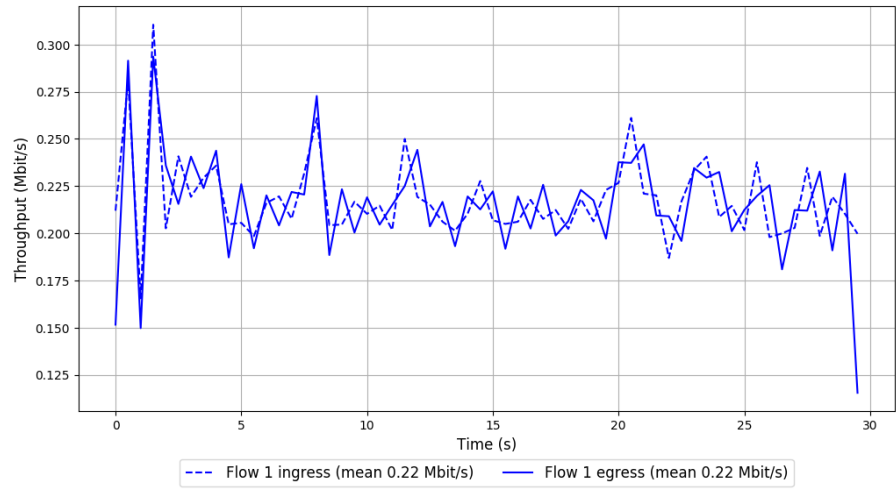
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.732 ms

Loss rate: 1.02%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-04-17 20:18:59

End at: 2018-04-17 20:19:29

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.554 ms

Loss rate: 0.77%

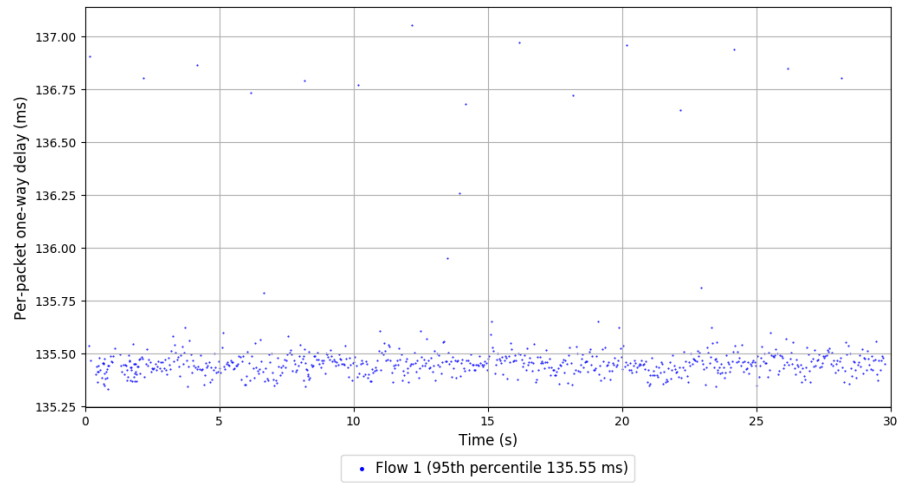
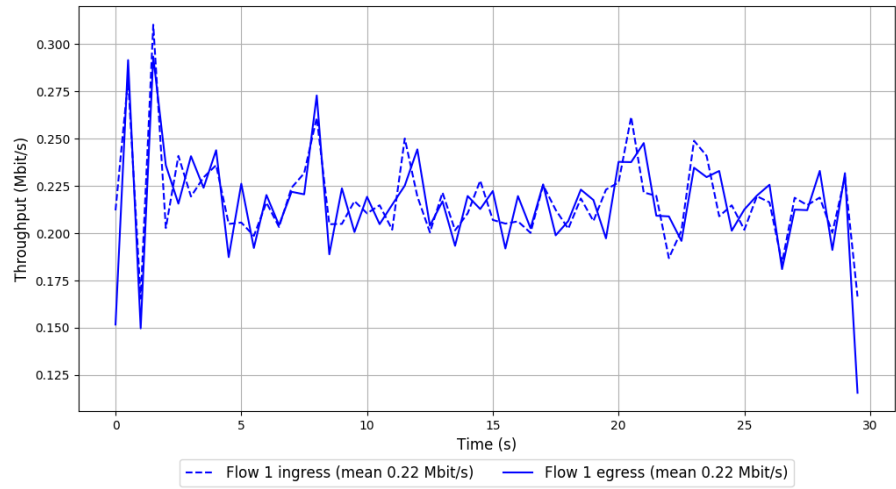
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.554 ms

Loss rate: 0.77%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-04-17 20:33:28

End at: 2018-04-17 20:33:58

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.791 ms

Loss rate: 0.89%

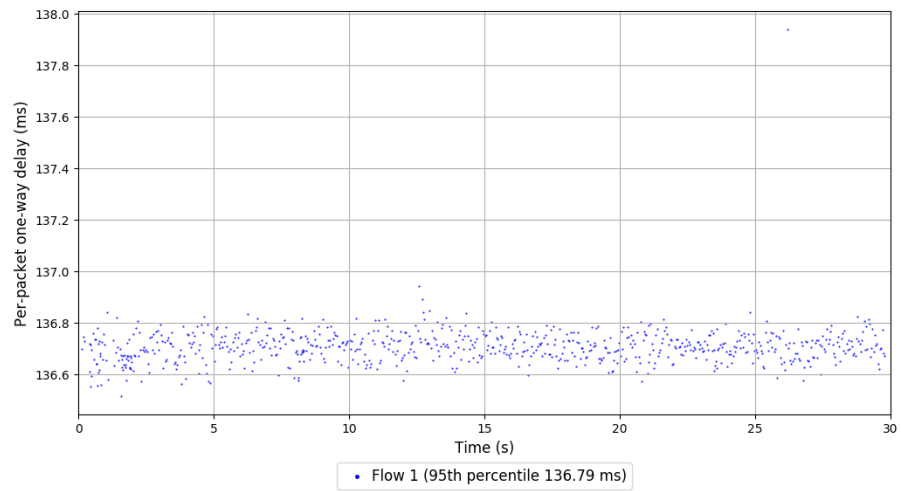
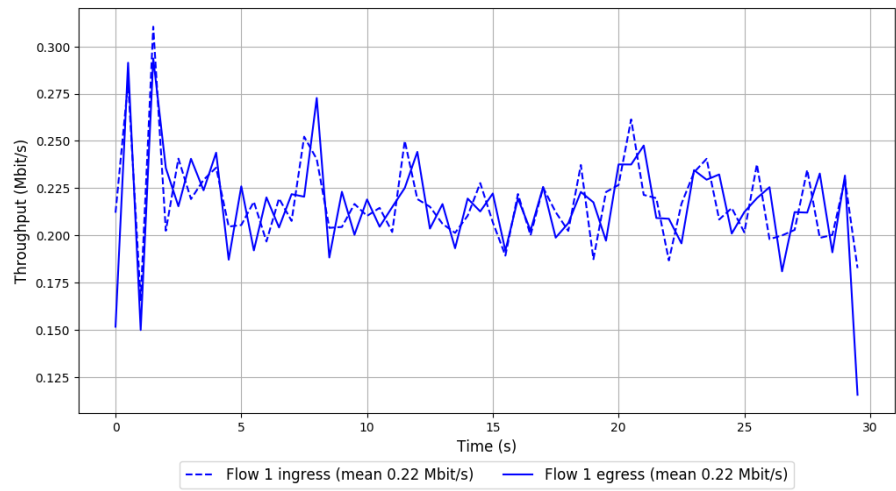
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.791 ms

Loss rate: 0.89%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-04-17 20:47:54

End at: 2018-04-17 20:48:24

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.246 ms

Loss rate: 0.89%

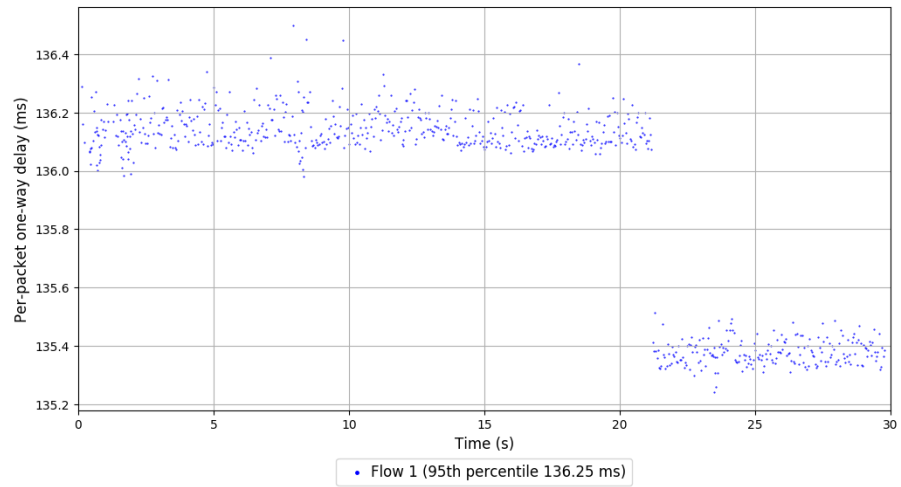
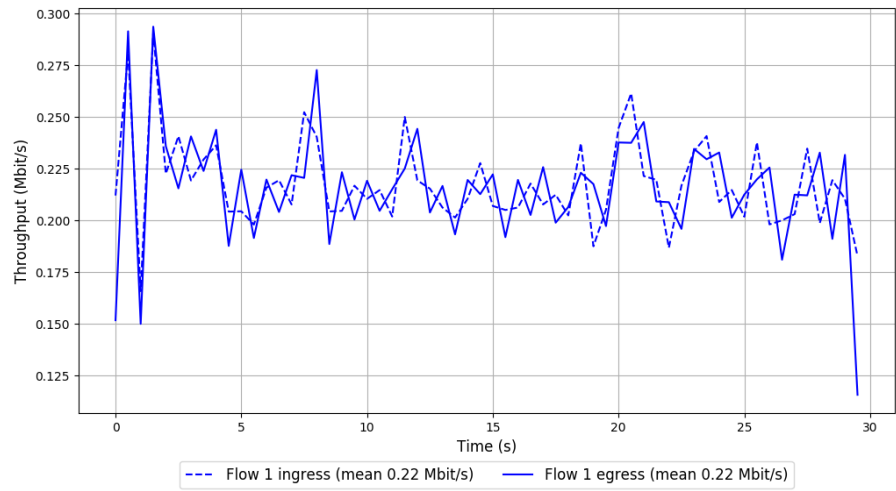
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.246 ms

Loss rate: 0.89%

Run 9: Report of SReAM — Data Link

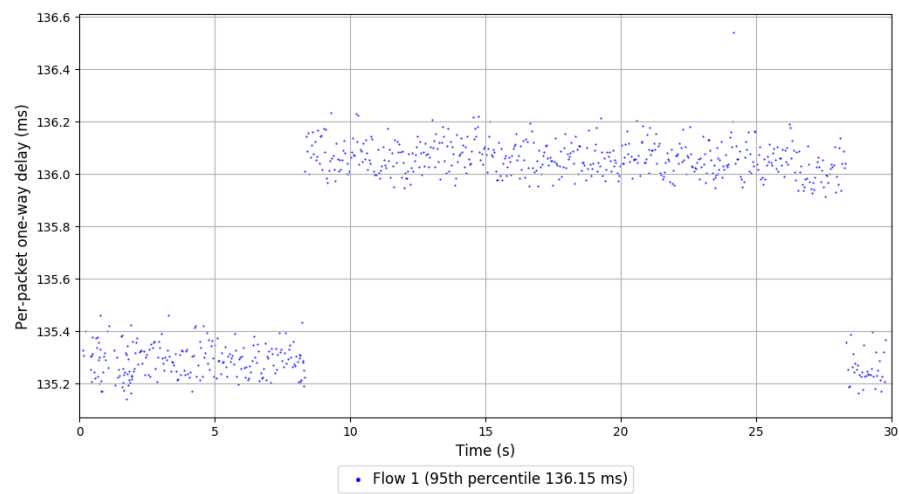
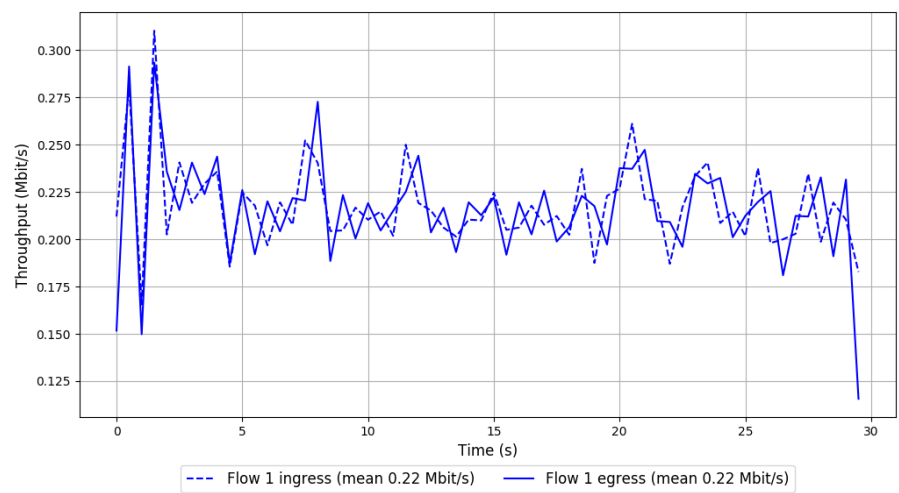


```
Run 10: Statistics of SReAM

Start at: 2018-04-17 21:02:27
End at: 2018-04-17 21:02:57

# Below is generated by plot.py at 2018-04-17 23:56:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.153 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.153 ms
Loss rate: 0.89%
```

Run 10: Report of SReAM — Data Link

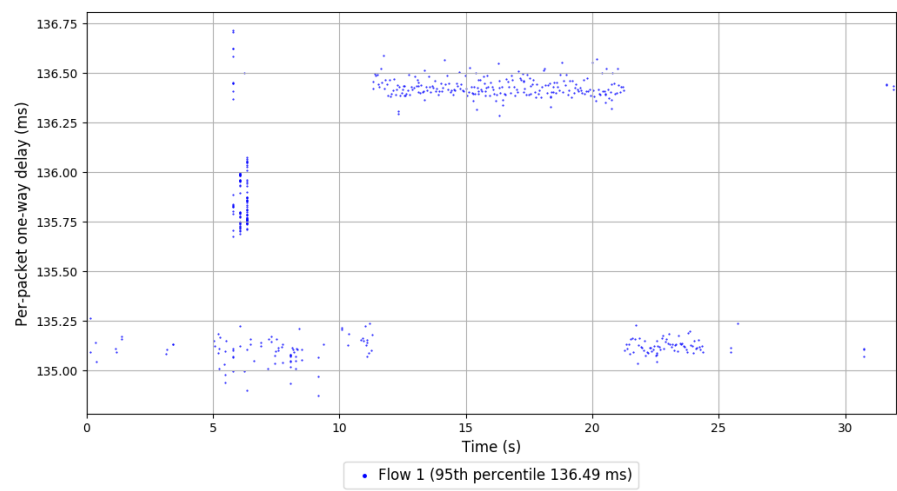
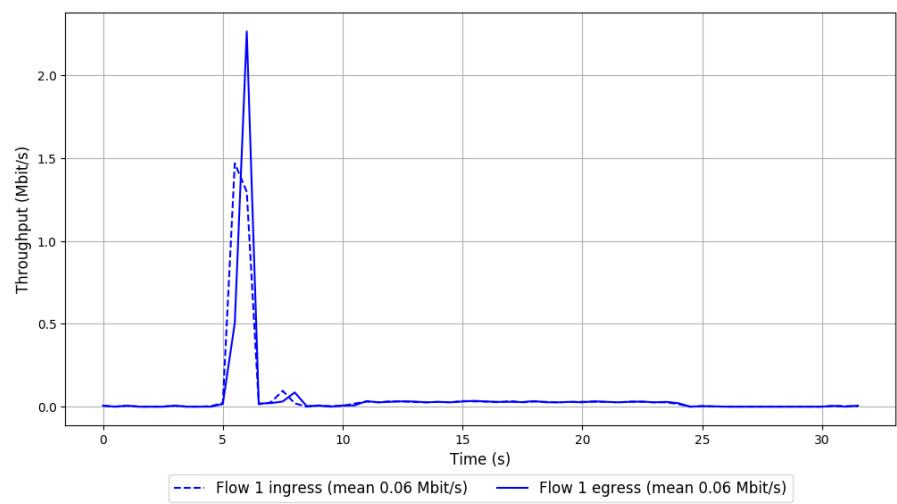


```
Run 1: Statistics of WebRTC media

Start at: 2018-04-17 18:56:26
End at: 2018-04-17 18:56:56

# Below is generated by plot.py at 2018-04-17 23:56:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 136.494 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 136.494 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-04-17 19:10:32

End at: 2018-04-17 19:11:02

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.969 ms

Loss rate: 0.00%

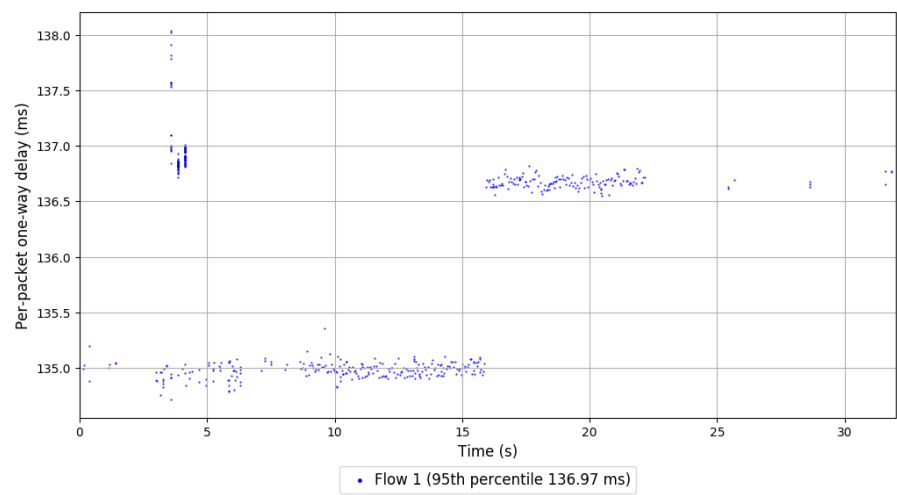
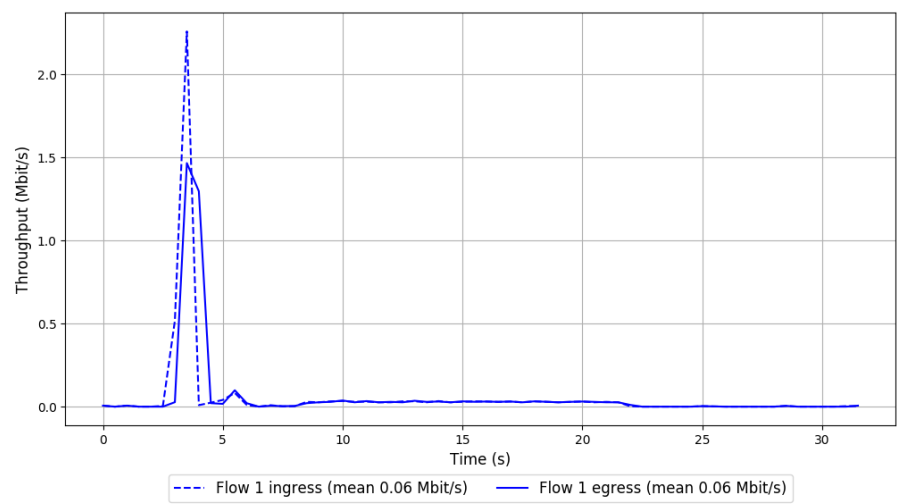
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.969 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-17 19:24:41

End at: 2018-04-17 19:25:11

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

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

Loss rate: 0.00%

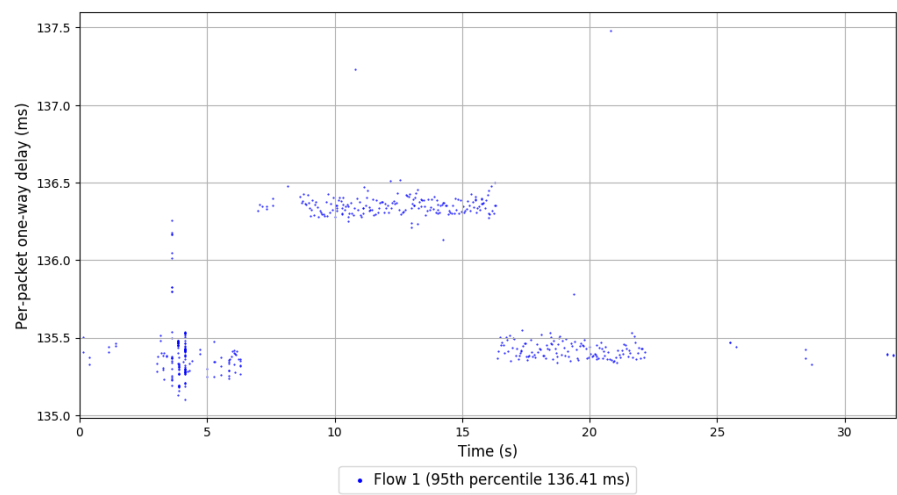
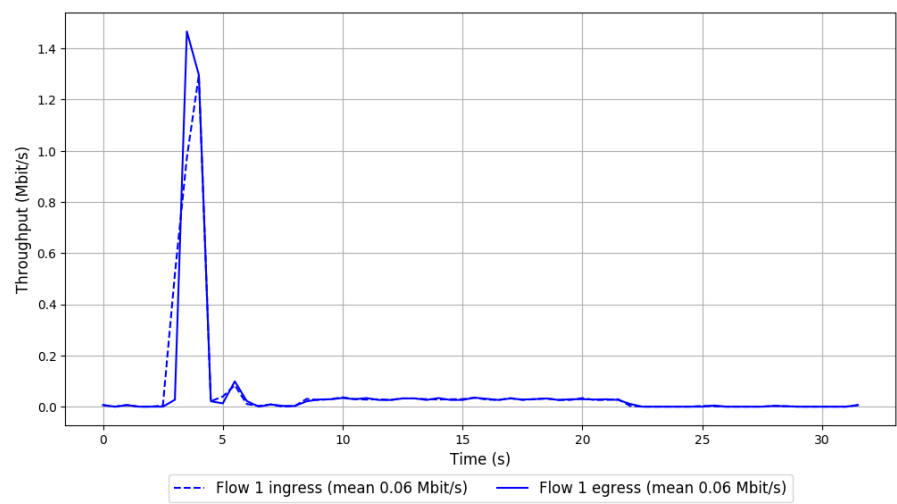
-- Flow 1:

Average throughput: 0.06 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-04-17 19:38:53

End at: 2018-04-17 19:39:23

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

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

Loss rate: 0.00%

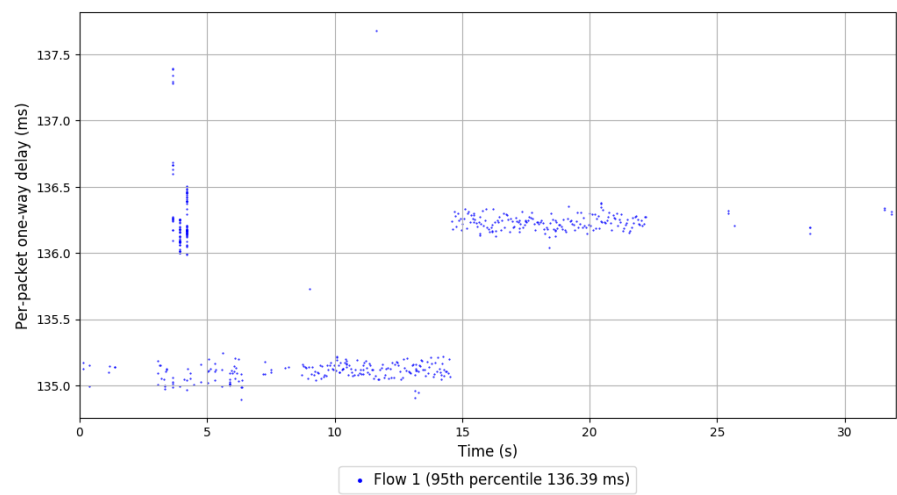
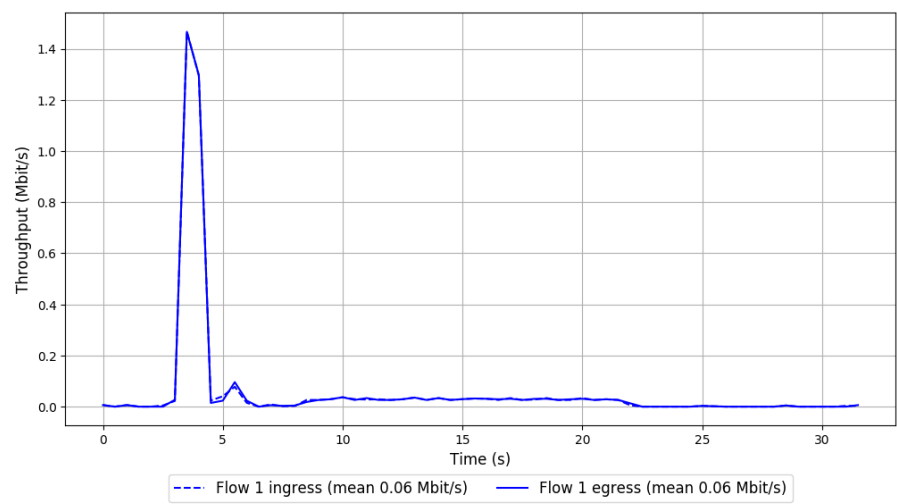
-- Flow 1:

Average throughput: 0.06 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-17 19:53:23

End at: 2018-04-17 19:53:54

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.359 ms

Loss rate: 0.00%

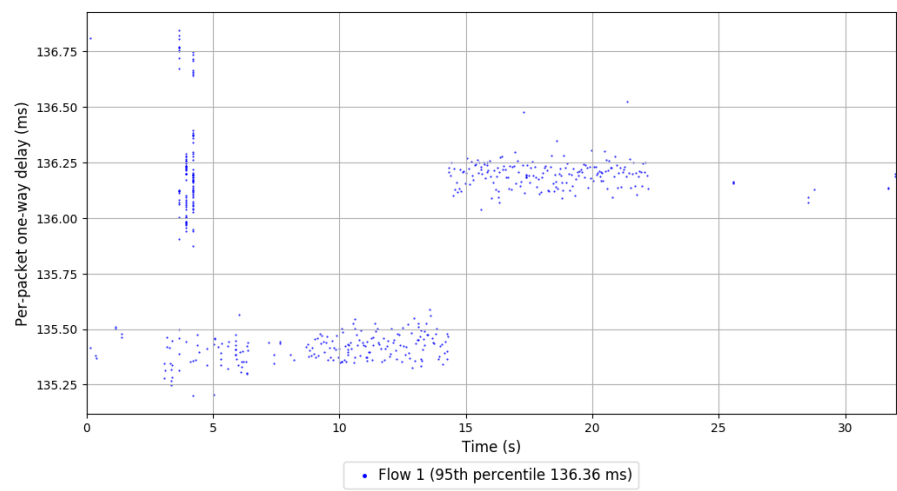
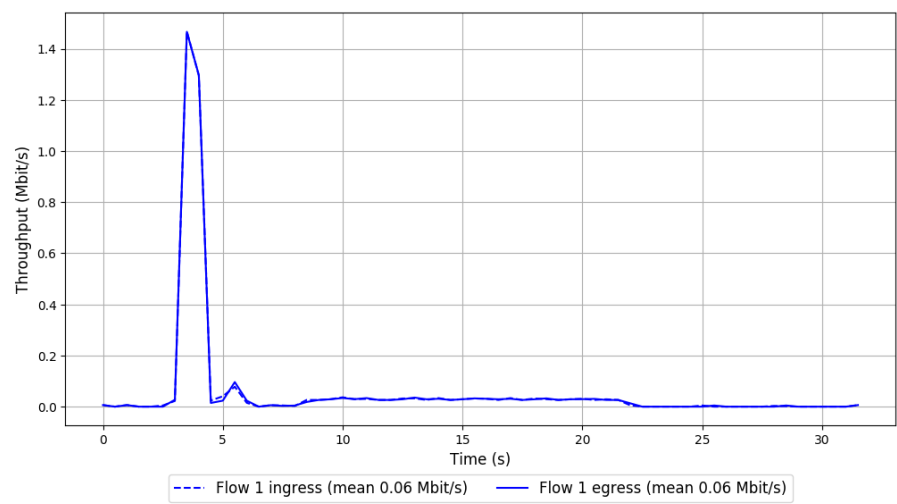
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.359 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-17 20:07:54

End at: 2018-04-17 20:08:24

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.284 ms

Loss rate: 0.00%

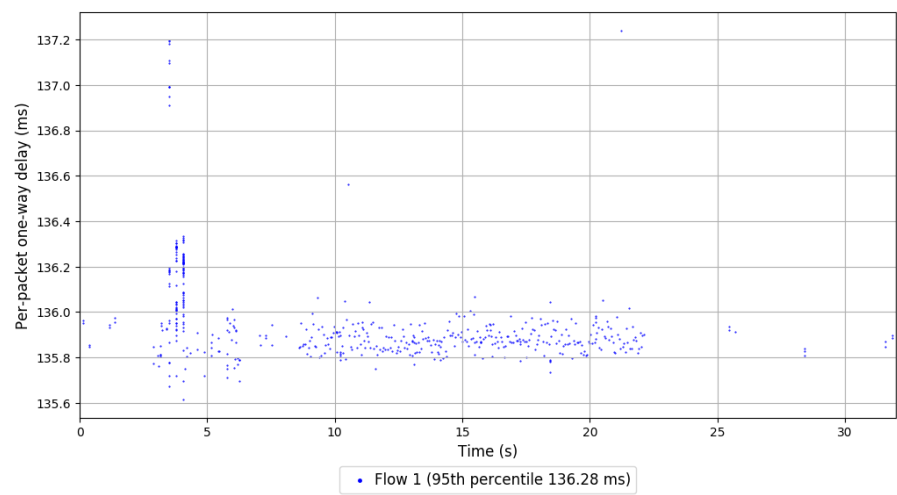
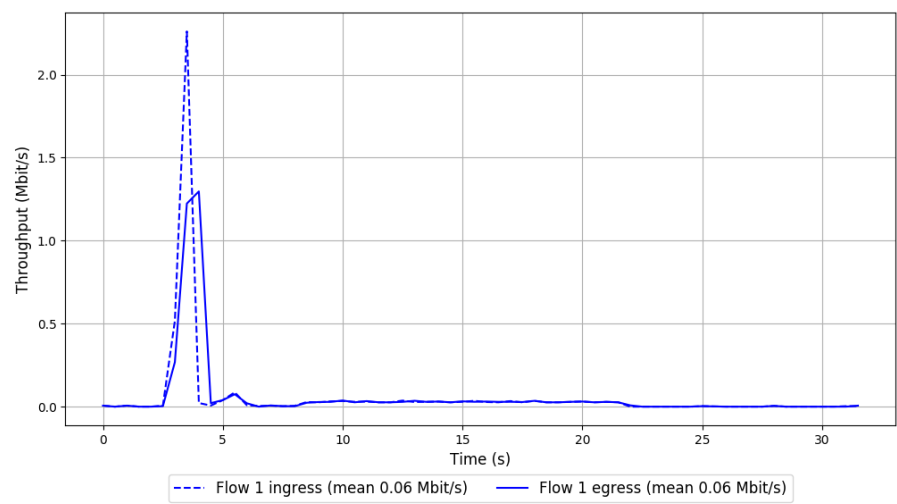
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.284 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-17 20:22:25

End at: 2018-04-17 20:22:55

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.503 ms

Loss rate: 0.00%

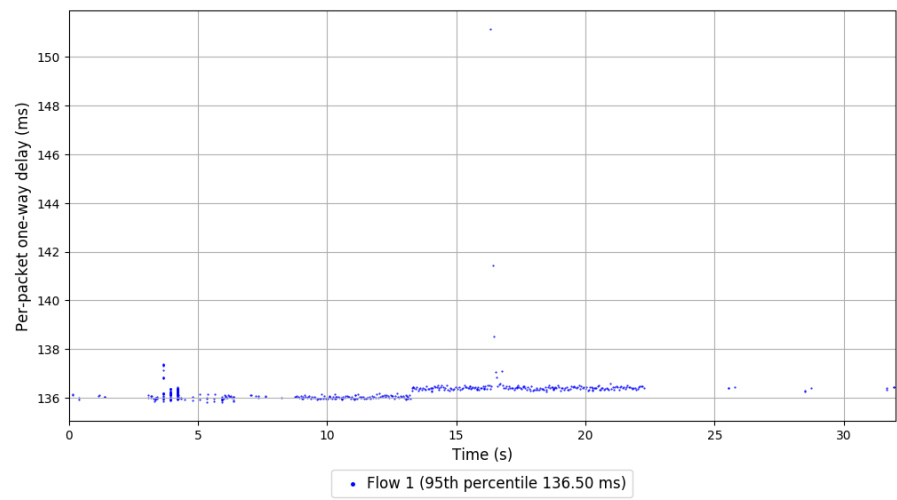
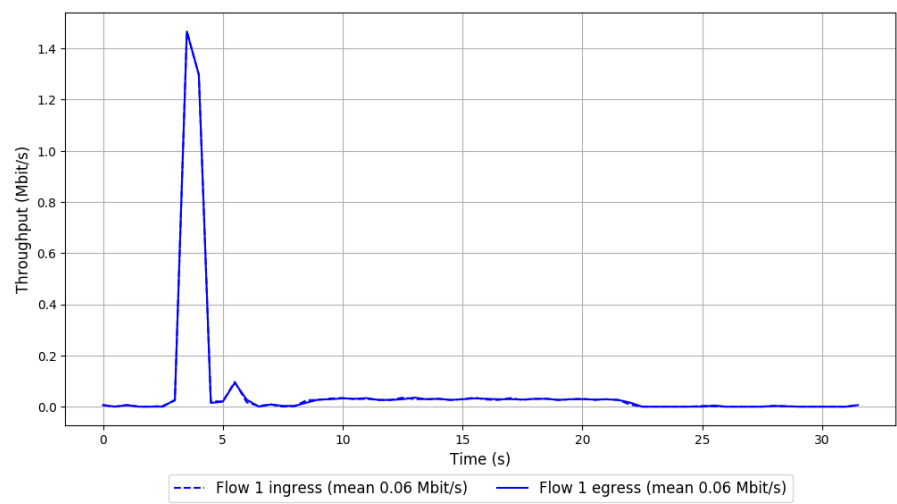
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.503 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-17 20:36:49

End at: 2018-04-17 20:37:19

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

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

Loss rate: 0.00%

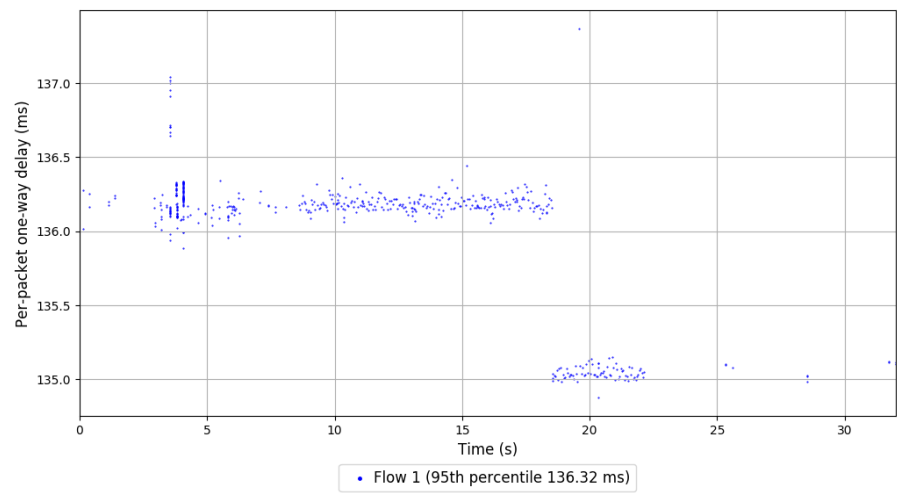
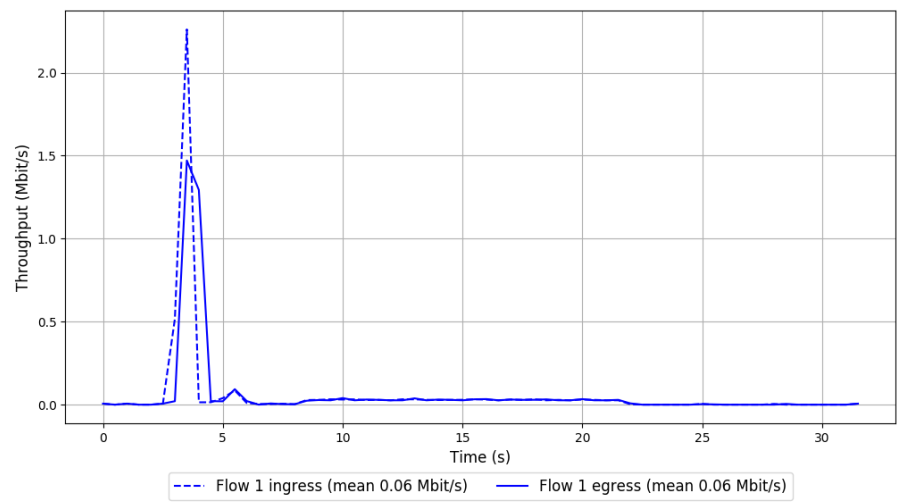
-- Flow 1:

Average throughput: 0.06 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-04-17 20:51:19

End at: 2018-04-17 20:51:49

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

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

Loss rate: 0.00%

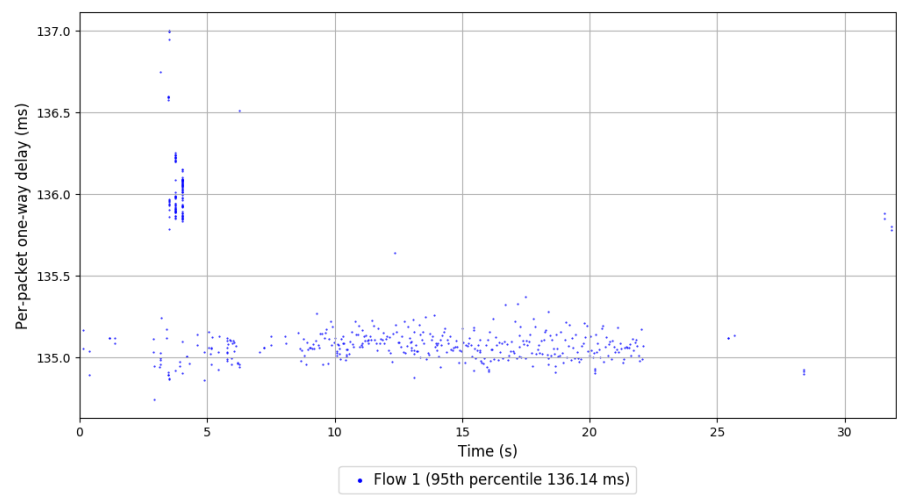
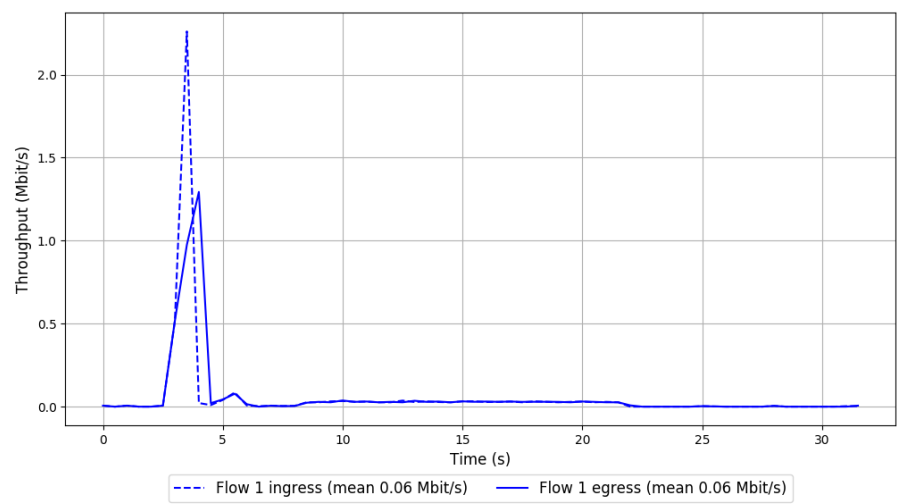
-- Flow 1:

Average throughput: 0.06 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-17 21:05:48

End at: 2018-04-17 21:06:18

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.159 ms

Loss rate: 0.00%

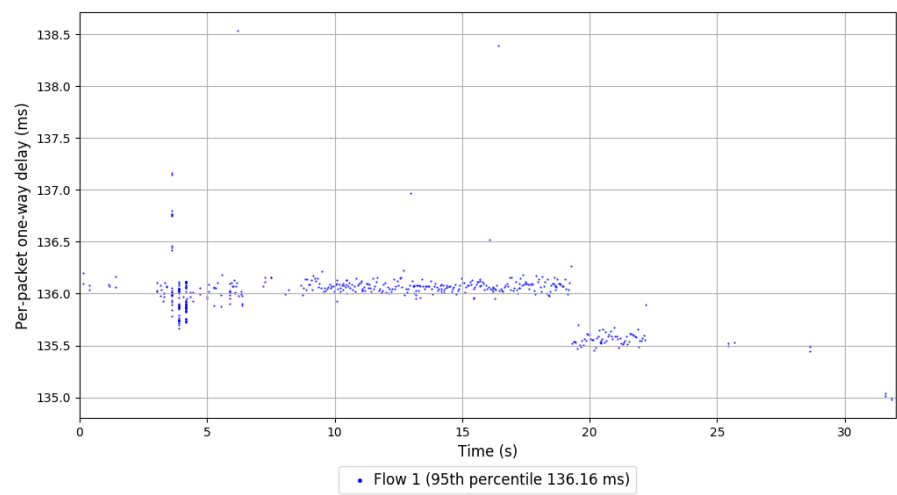
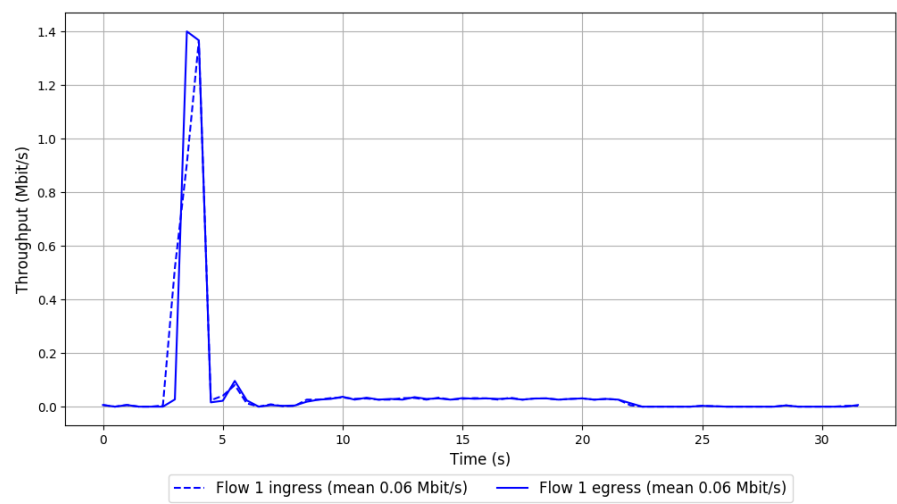
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.159 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-04-17 18:45:21

End at: 2018-04-17 18:45:51

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.873 ms

Loss rate: 0.78%

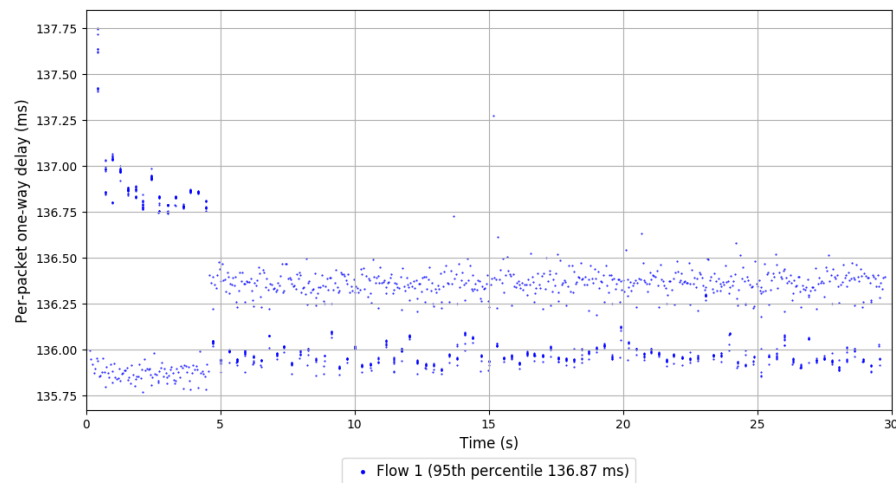
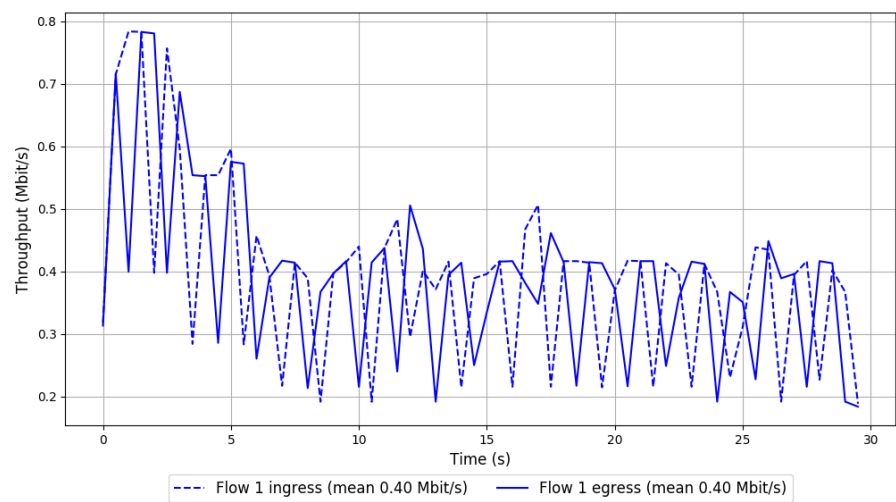
-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.873 ms

Loss rate: 0.78%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-04-17 18:59:49

End at: 2018-04-17 19:00:19

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.881 ms

Loss rate: 0.82%

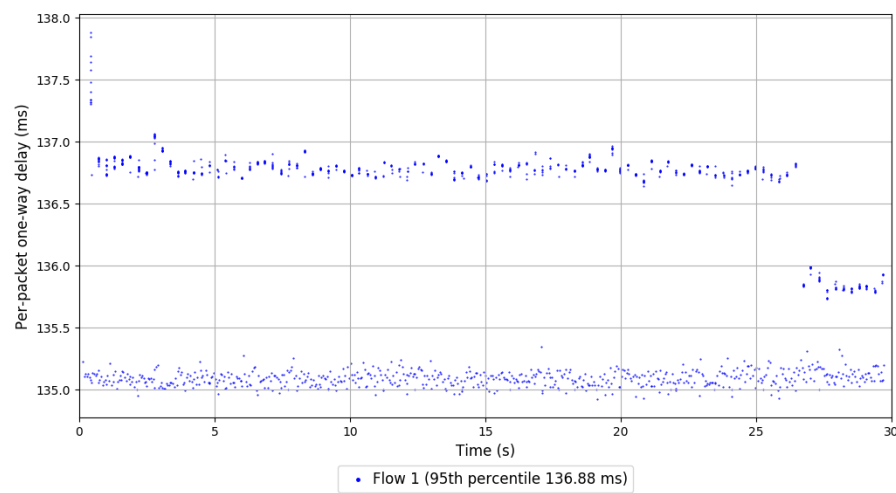
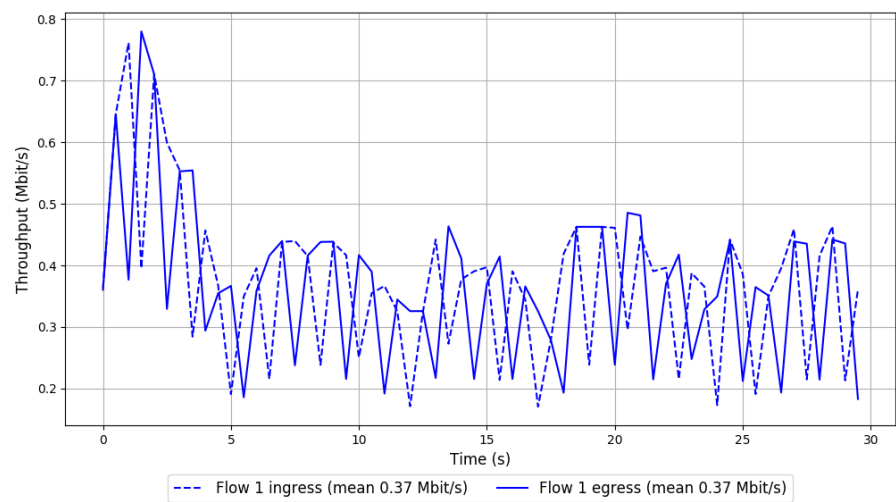
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.881 ms

Loss rate: 0.82%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-04-17 19:13:54

End at: 2018-04-17 19:14:24

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 135.893 ms

Loss rate: 1.22%

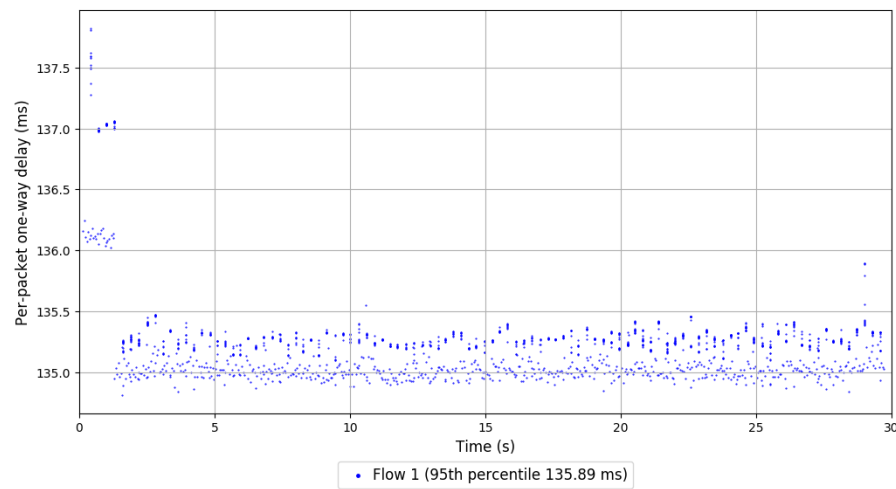
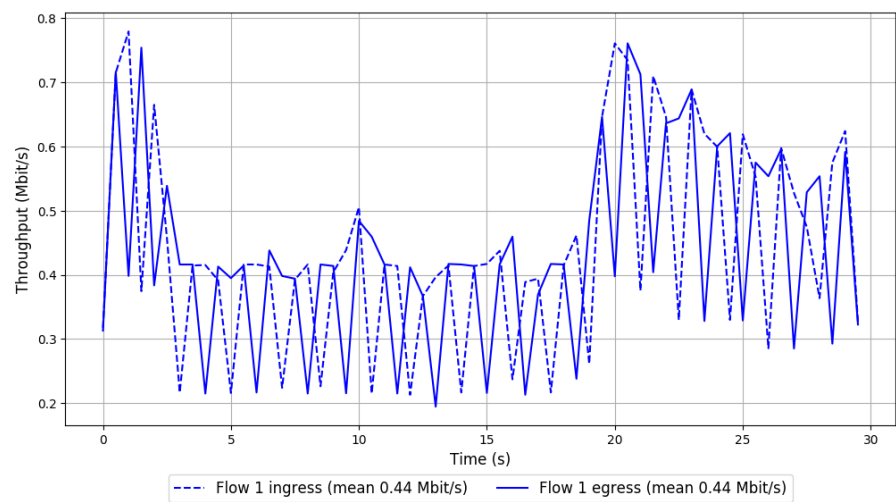
-- Flow 1:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 135.893 ms

Loss rate: 1.22%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-04-17 19:28:06

End at: 2018-04-17 19:28:36

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 137.096 ms

Loss rate: 0.86%

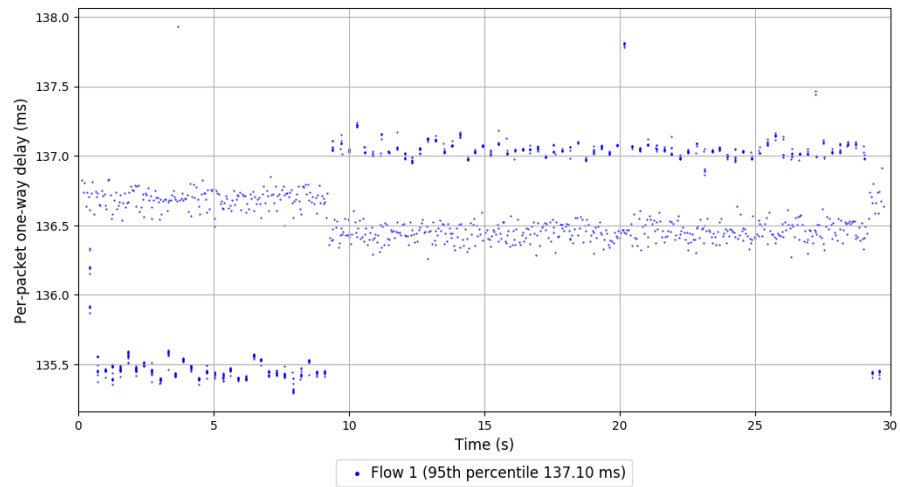
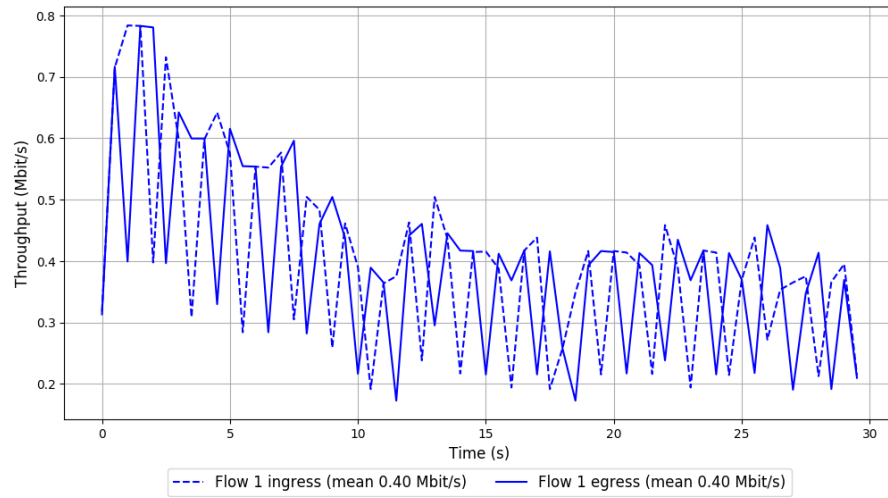
-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 137.096 ms

Loss rate: 0.86%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-04-17 19:42:17

End at: 2018-04-17 19:42:47

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.500 ms

Loss rate: 0.83%

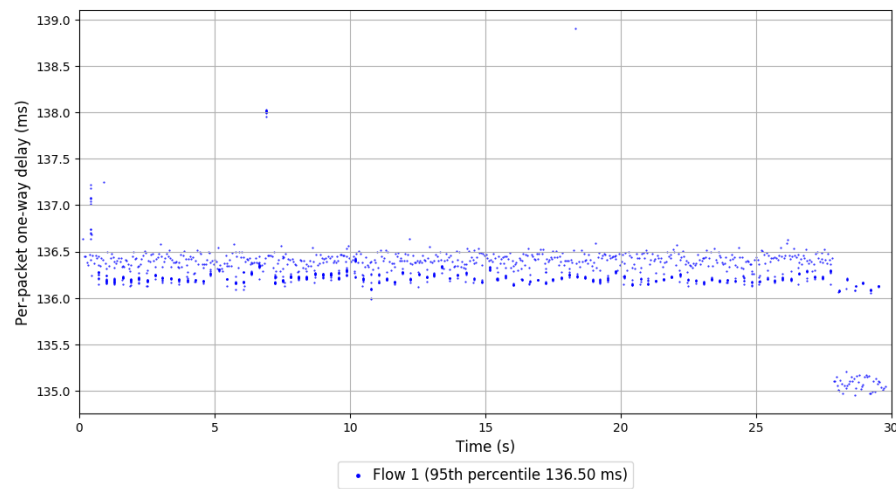
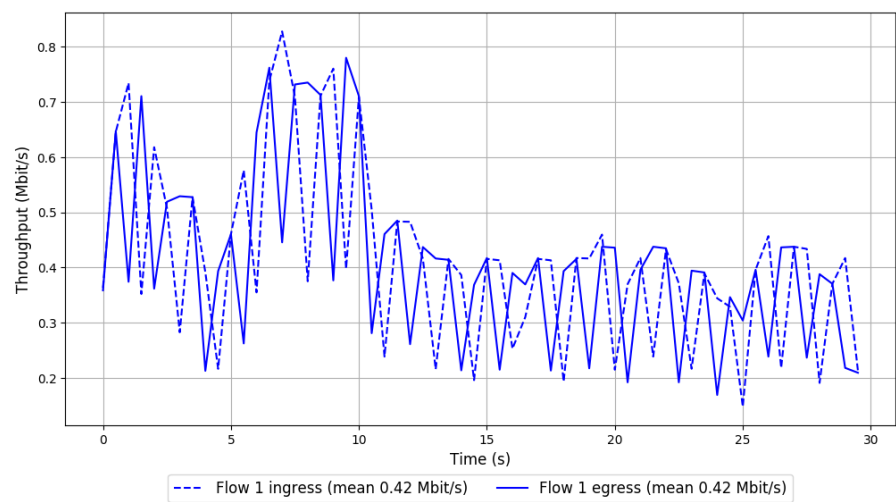
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.500 ms

Loss rate: 0.83%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-04-17 19:56:46

End at: 2018-04-17 19:57:16

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.470 ms

Loss rate: 0.81%

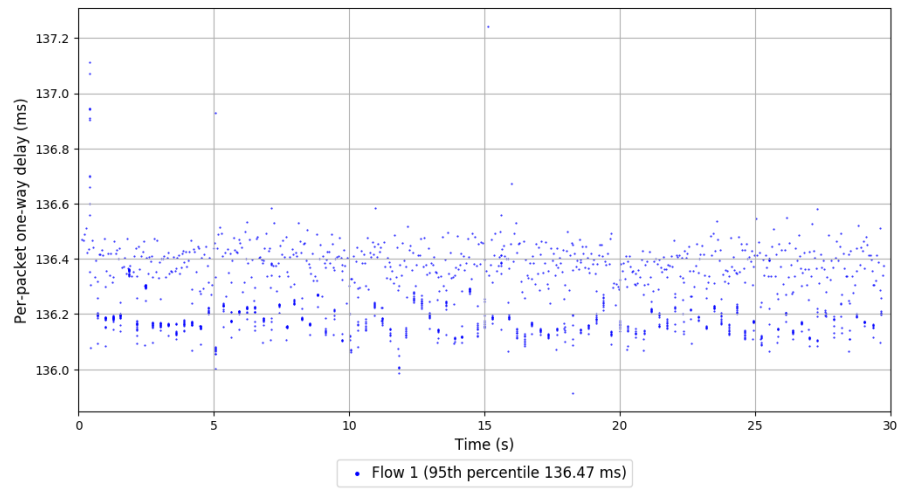
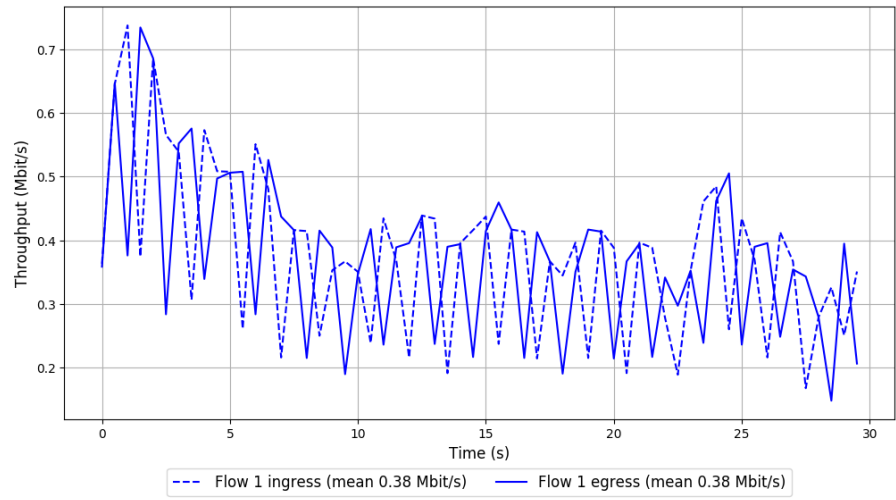
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.470 ms

Loss rate: 0.81%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-04-17 20:11:16

End at: 2018-04-17 20:11:46

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.327 ms

Loss rate: 0.94%

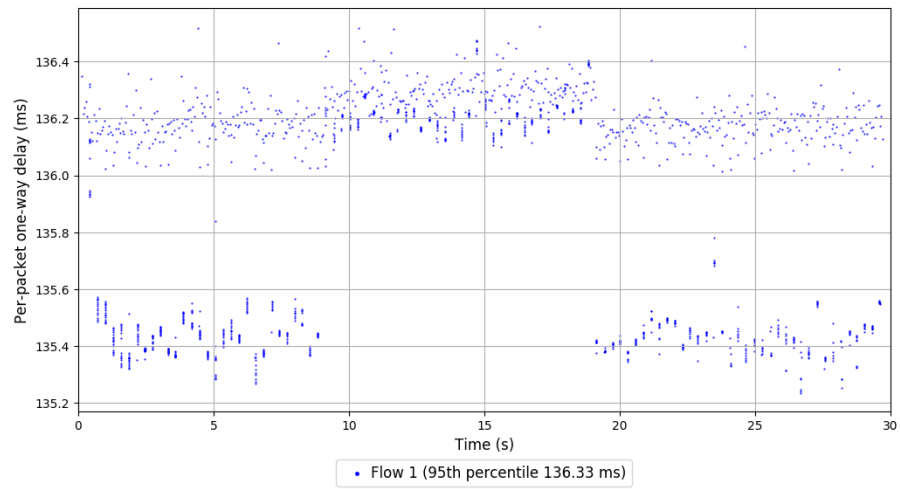
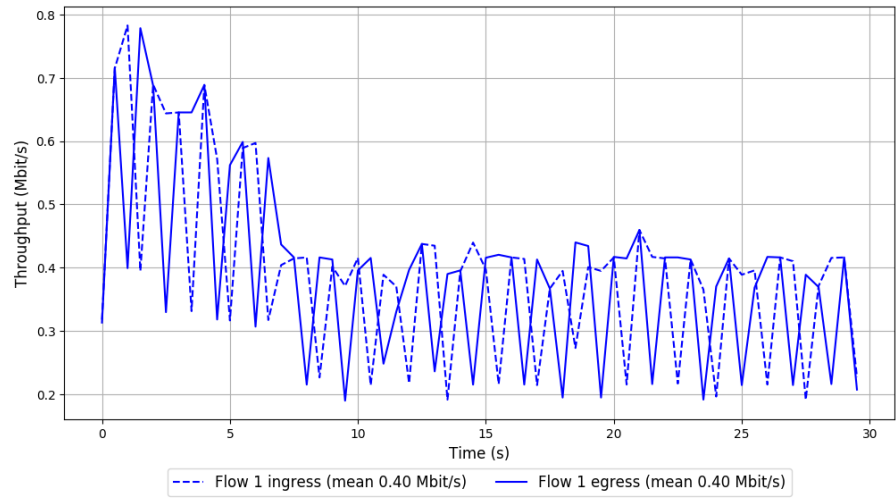
-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.327 ms

Loss rate: 0.94%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-04-17 20:25:46

End at: 2018-04-17 20:26:16

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.420 ms

Loss rate: 0.73%

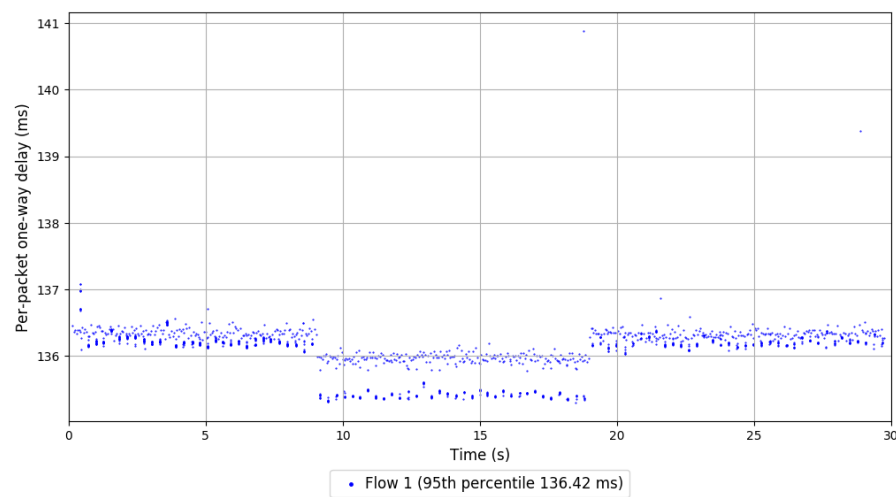
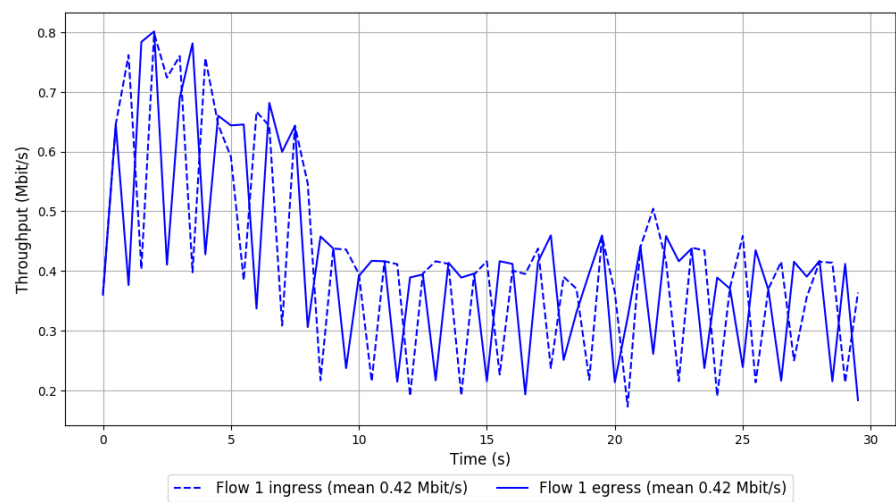
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.420 ms

Loss rate: 0.73%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-04-17 20:40:12

End at: 2018-04-17 20:40:43

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 136.218 ms

Loss rate: 1.17%

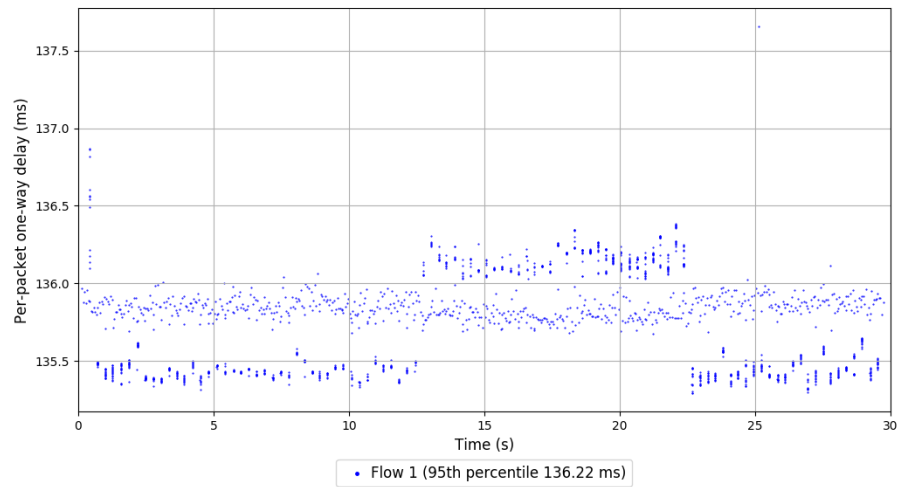
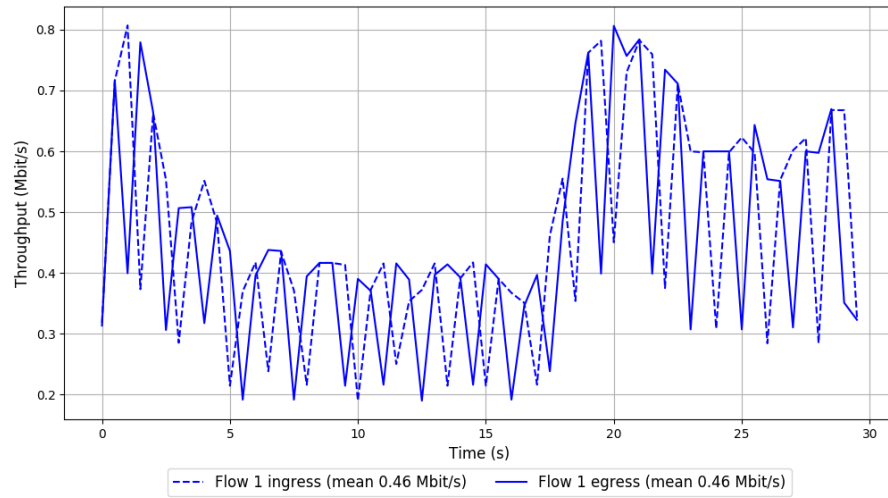
-- Flow 1:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 136.218 ms

Loss rate: 1.17%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-04-17 20:54:42

End at: 2018-04-17 20:55:12

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.127 ms

Loss rate: 0.71%

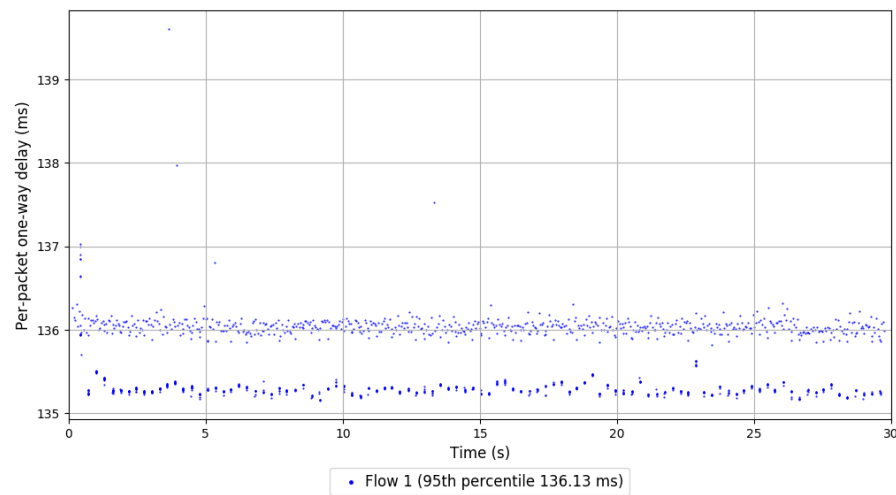
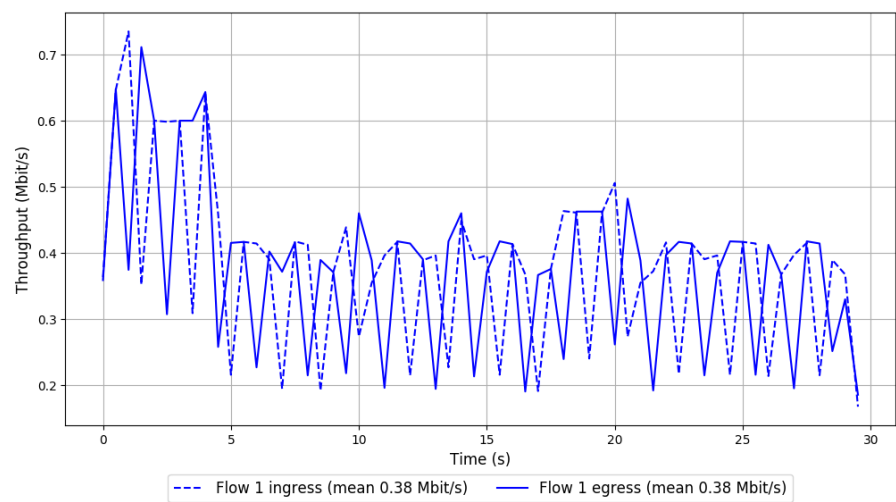
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.127 ms

Loss rate: 0.71%

Run 10: Report of Sprout — Data Link

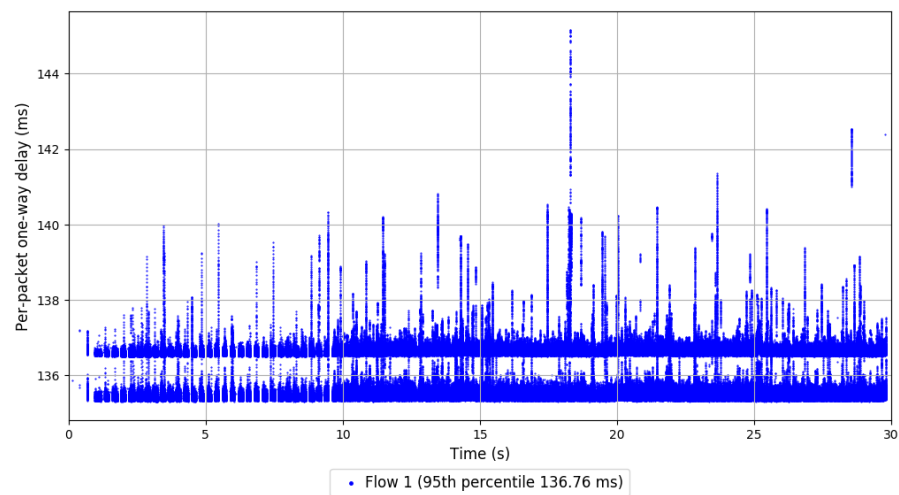
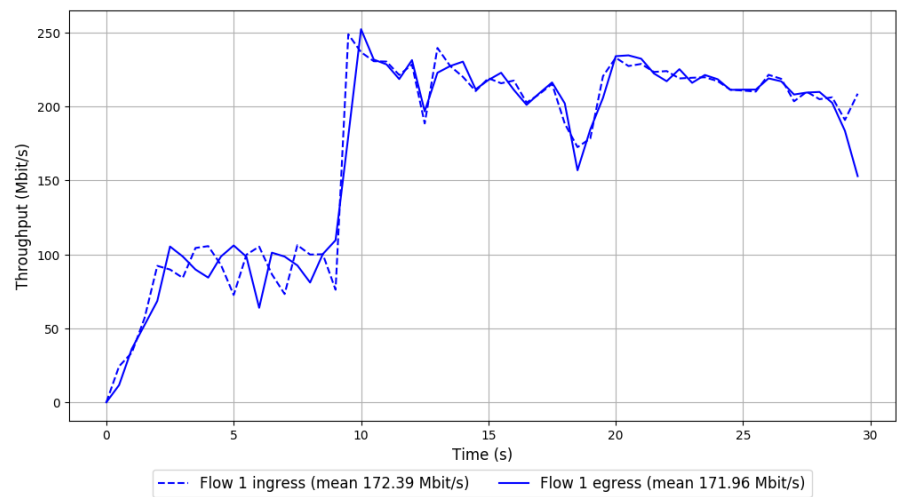


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-17 18:53:43
End at: 2018-04-17 18:54:13

# Below is generated by plot.py at 2018-04-17 23:56:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 171.96 Mbit/s
95th percentile per-packet one-way delay: 136.758 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 171.96 Mbit/s
95th percentile per-packet one-way delay: 136.758 ms
Loss rate: 1.16%
```

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

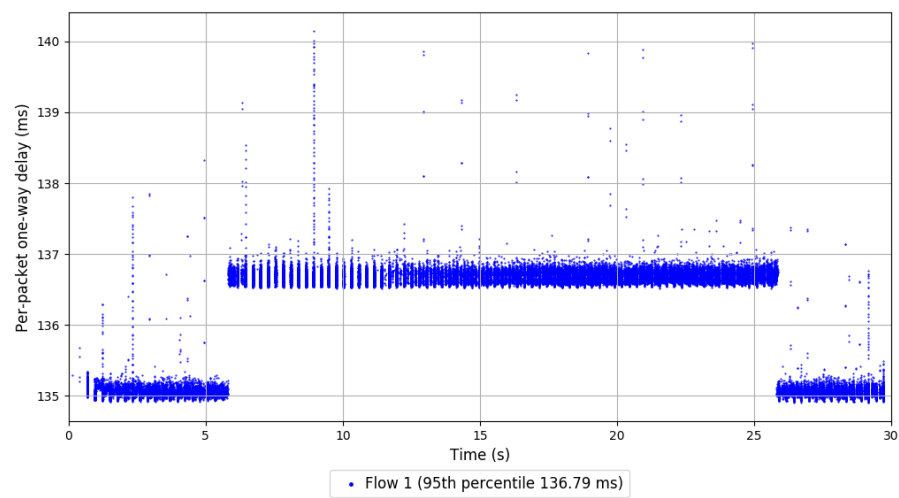
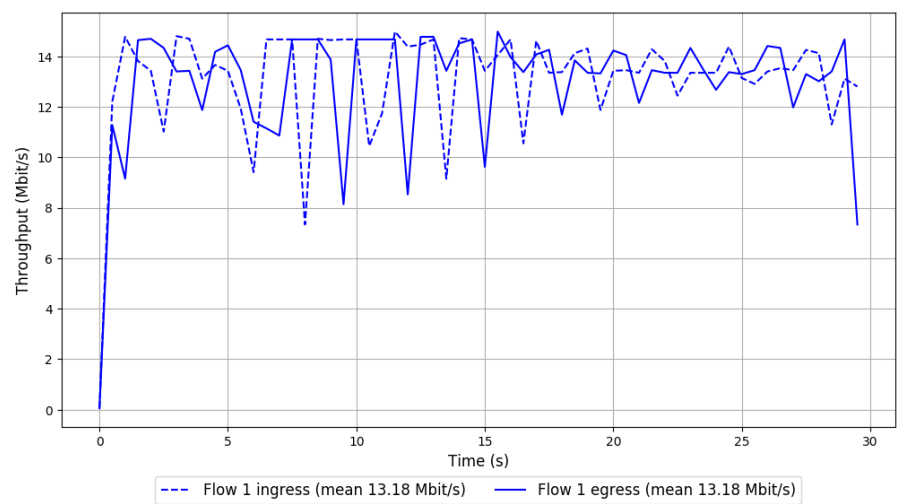


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-04-17 19:08:09
End at: 2018-04-17 19:08:39

# Below is generated by plot.py at 2018-04-17 23:56:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.18 Mbit/s
95th percentile per-packet one-way delay: 136.792 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 13.18 Mbit/s
95th percentile per-packet one-way delay: 136.792 ms
Loss rate: 0.93%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-17 19:22:23

End at: 2018-04-17 19:22:53

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.43 Mbit/s

95th percentile per-packet one-way delay: 136.156 ms

Loss rate: 0.93%

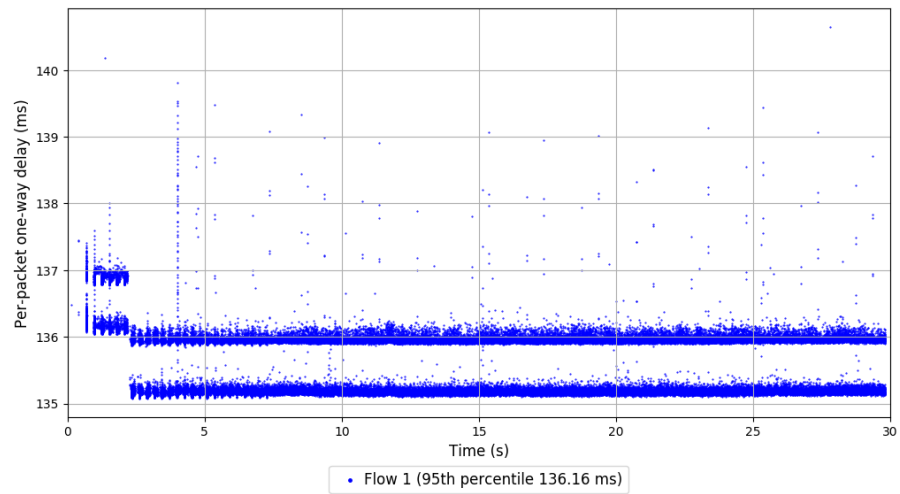
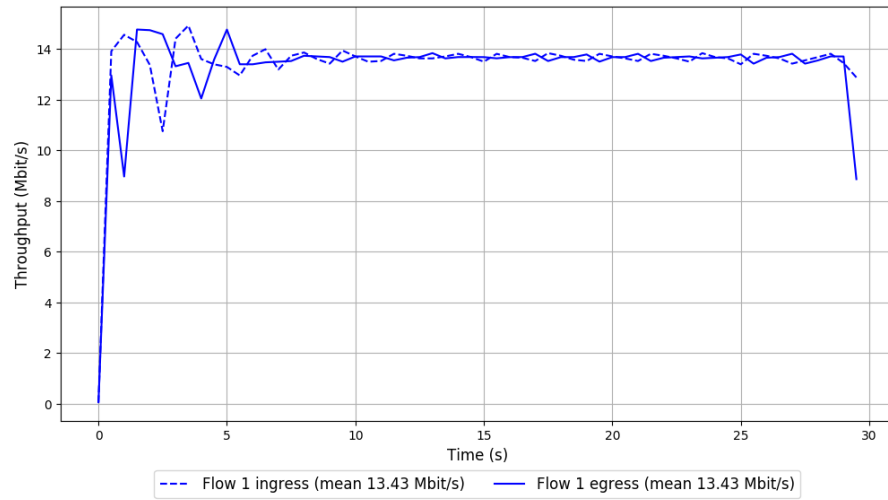
-- Flow 1:

Average throughput: 13.43 Mbit/s

95th percentile per-packet one-way delay: 136.156 ms

Loss rate: 0.93%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-04-17 19:36:32

End at: 2018-04-17 19:37:02

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.35 Mbit/s

95th percentile per-packet one-way delay: 136.102 ms

Loss rate: 0.93%

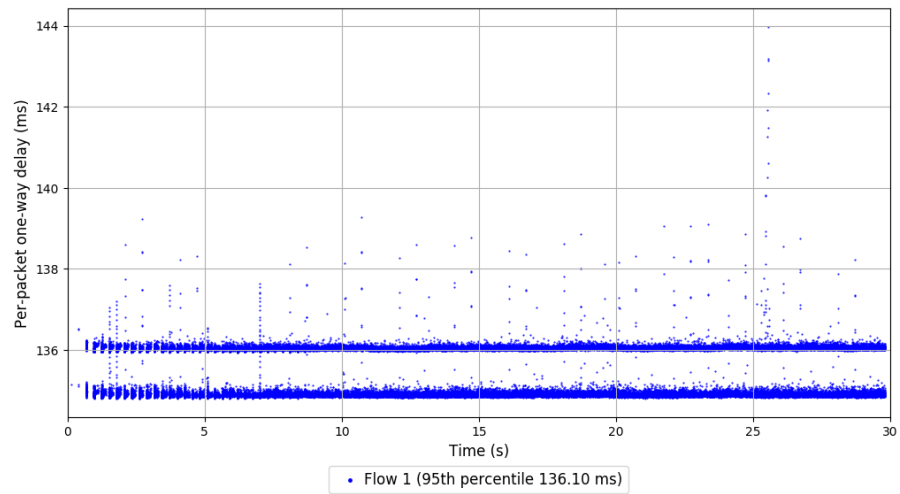
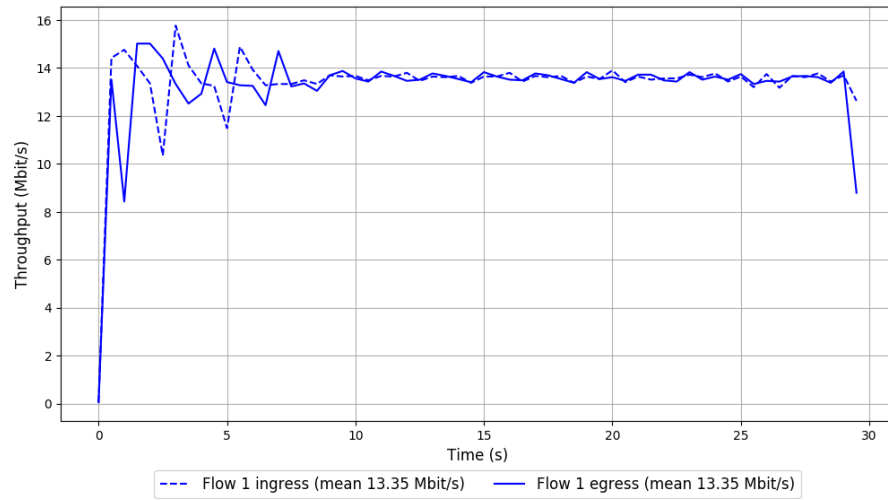
-- Flow 1:

Average throughput: 13.35 Mbit/s

95th percentile per-packet one-way delay: 136.102 ms

Loss rate: 0.93%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-17 19:50:49

End at: 2018-04-17 19:51:19

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.10 Mbit/s

95th percentile per-packet one-way delay: 136.371 ms

Loss rate: 1.04%

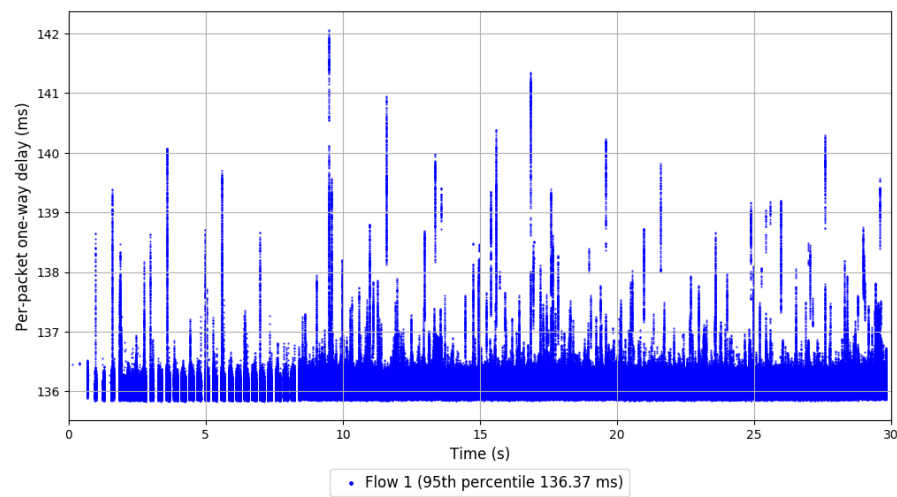
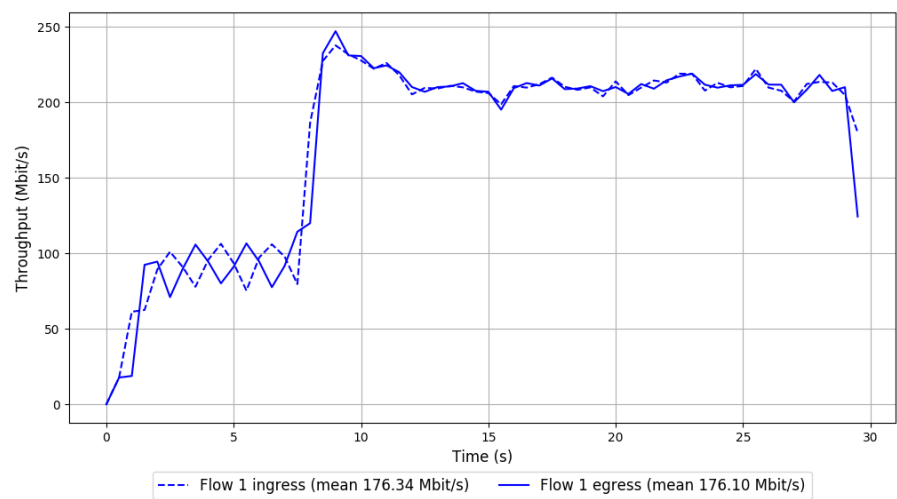
-- Flow 1:

Average throughput: 176.10 Mbit/s

95th percentile per-packet one-way delay: 136.371 ms

Loss rate: 1.04%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-17 20:05:11

End at: 2018-04-17 20:05:41

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.55 Mbit/s

95th percentile per-packet one-way delay: 136.450 ms

Loss rate: 1.00%

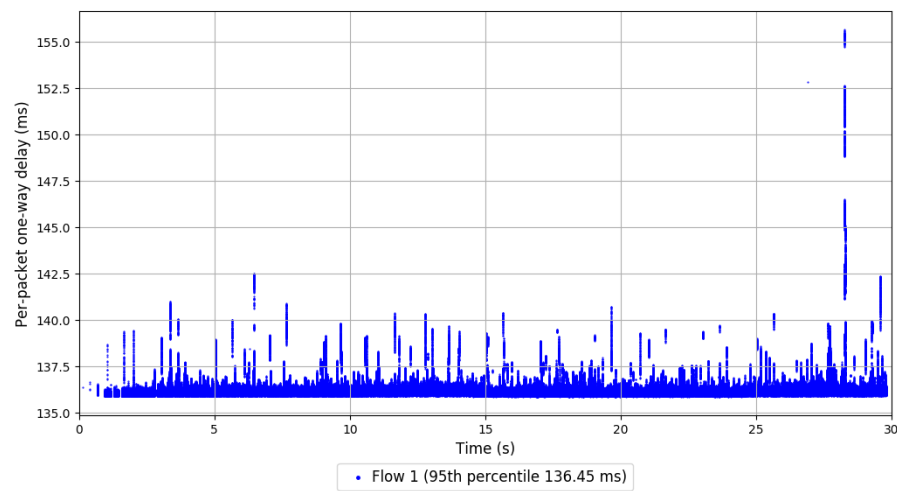
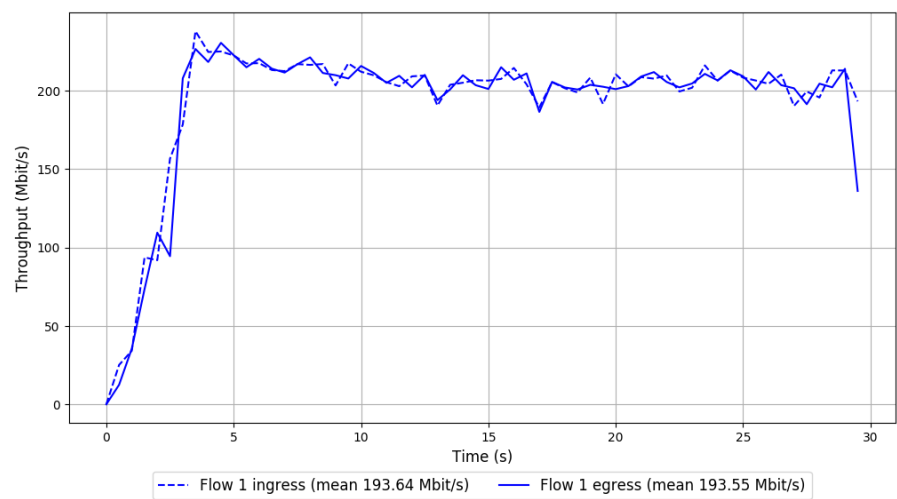
-- Flow 1:

Average throughput: 193.55 Mbit/s

95th percentile per-packet one-way delay: 136.450 ms

Loss rate: 1.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-04-17 20:19:41

End at: 2018-04-17 20:20:11

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.43 Mbit/s

95th percentile per-packet one-way delay: 135.468 ms

Loss rate: 0.95%

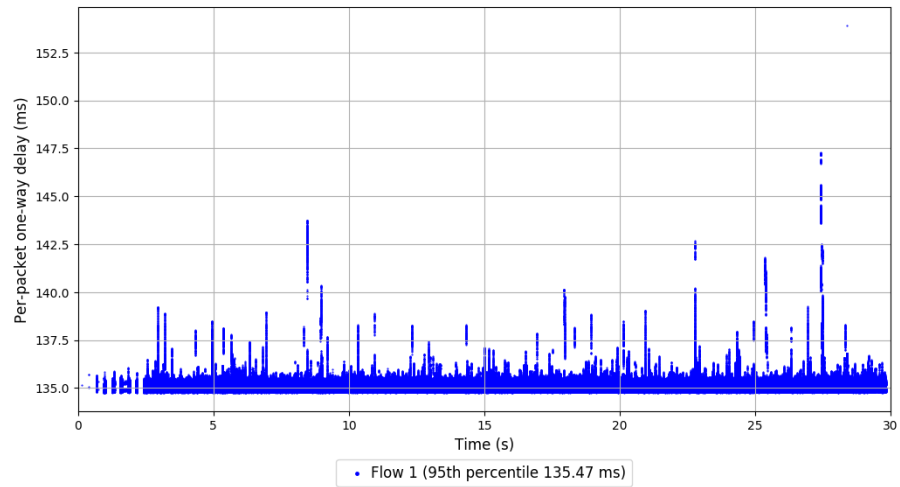
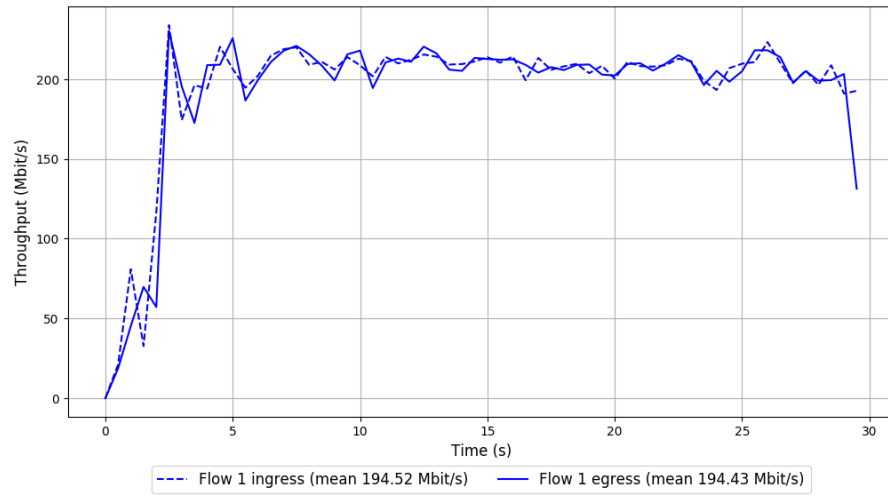
-- Flow 1:

Average throughput: 194.43 Mbit/s

95th percentile per-packet one-way delay: 135.468 ms

Loss rate: 0.95%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-17 20:34:09

End at: 2018-04-17 20:34:39

Below is generated by plot.py at 2018-04-17 23:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.58 Mbit/s

95th percentile per-packet one-way delay: 136.301 ms

Loss rate: 1.04%

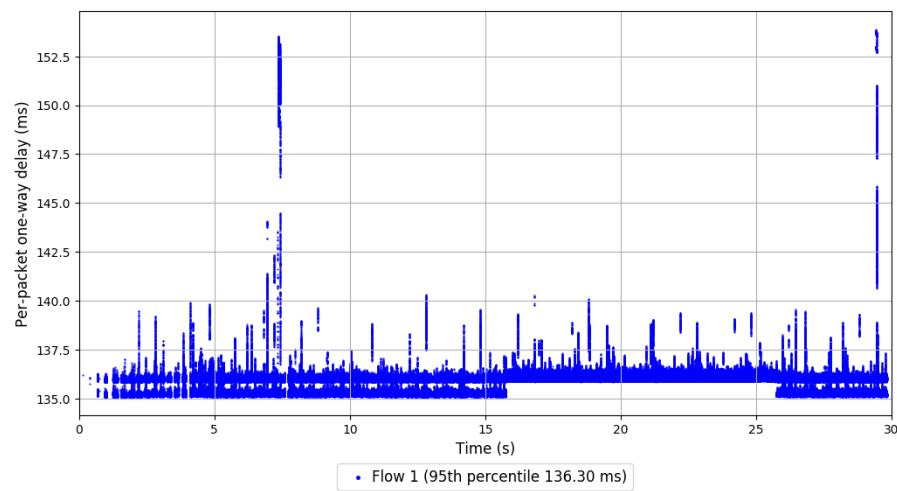
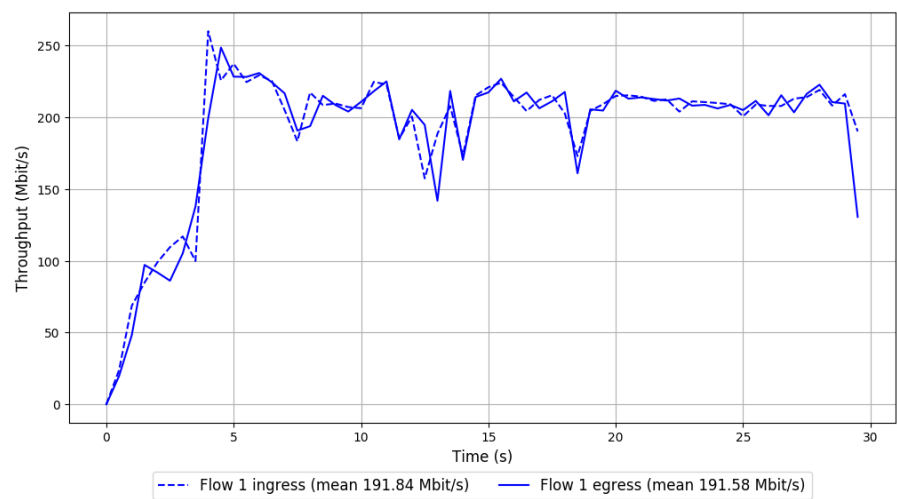
-- Flow 1:

Average throughput: 191.58 Mbit/s

95th percentile per-packet one-way delay: 136.301 ms

Loss rate: 1.04%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-04-17 20:48:36

End at: 2018-04-17 20:49:06

Below is generated by plot.py at 2018-04-17 23:57:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.84 Mbit/s

95th percentile per-packet one-way delay: 136.176 ms

Loss rate: 0.99%

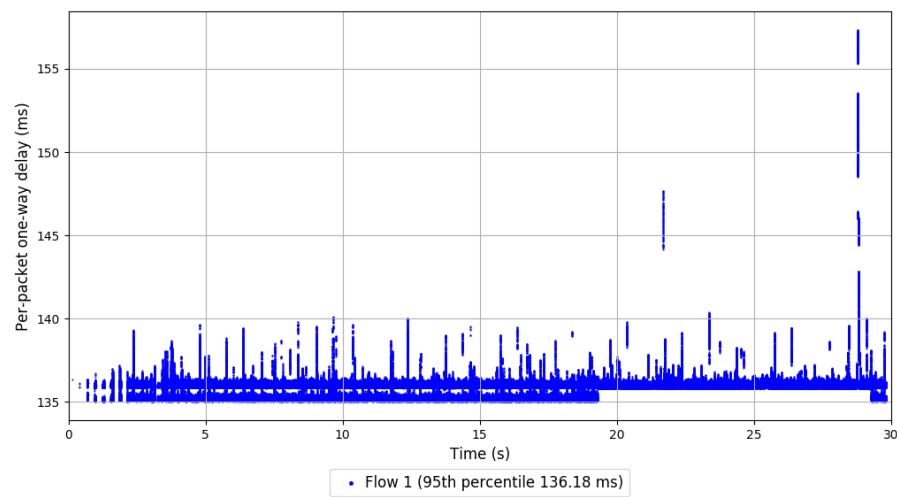
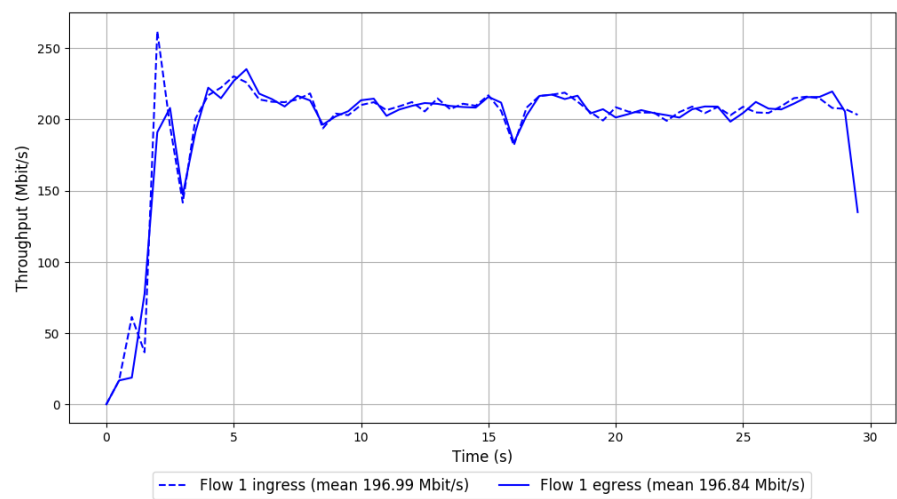
-- Flow 1:

Average throughput: 196.84 Mbit/s

95th percentile per-packet one-way delay: 136.176 ms

Loss rate: 0.99%

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

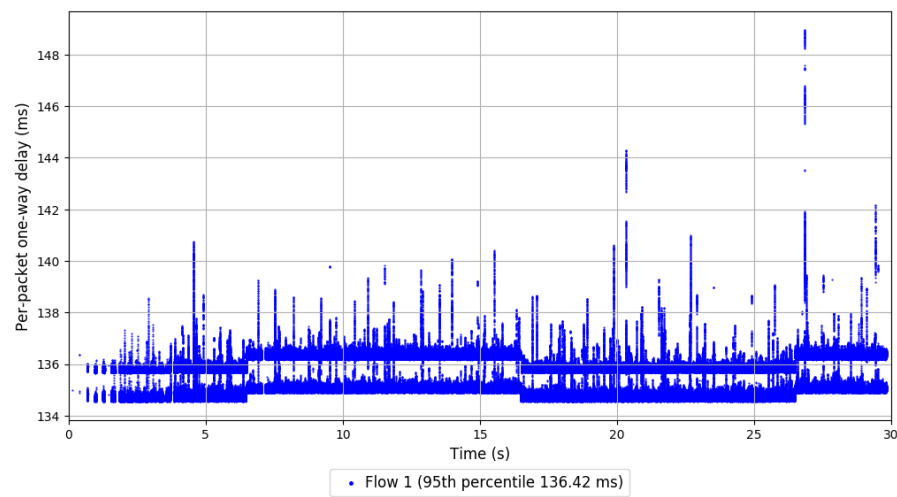
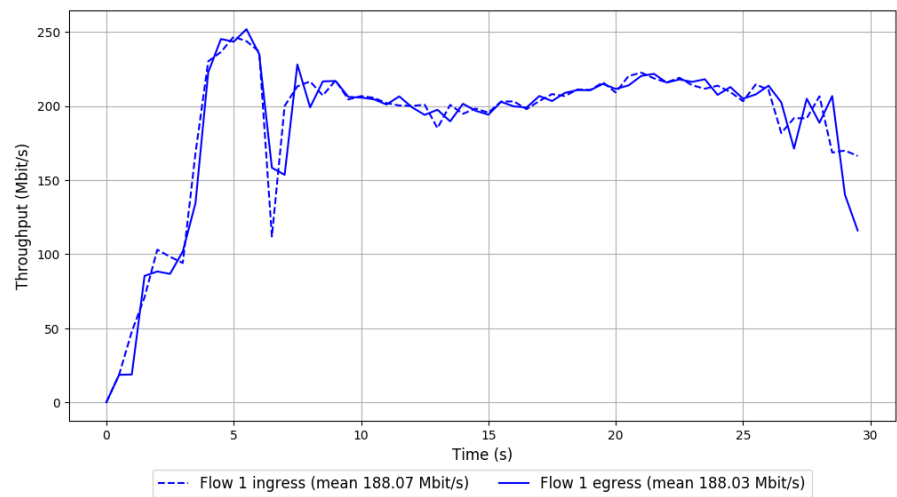


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-04-17 21:03:09
End at: 2018-04-17 21:03:39

# Below is generated by plot.py at 2018-04-18 00:01:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.03 Mbit/s
95th percentile per-packet one-way delay: 136.422 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 188.03 Mbit/s
95th percentile per-packet one-way delay: 136.422 ms
Loss rate: 0.93%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-17 18:55:41

End at: 2018-04-17 18:56:12

Below is generated by plot.py at 2018-04-18 00:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.62 Mbit/s

95th percentile per-packet one-way delay: 137.983 ms

Loss rate: 0.99%

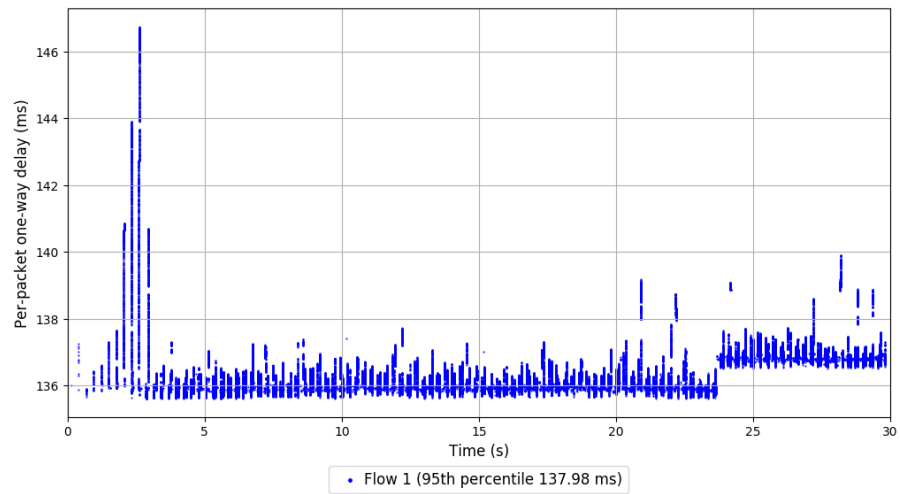
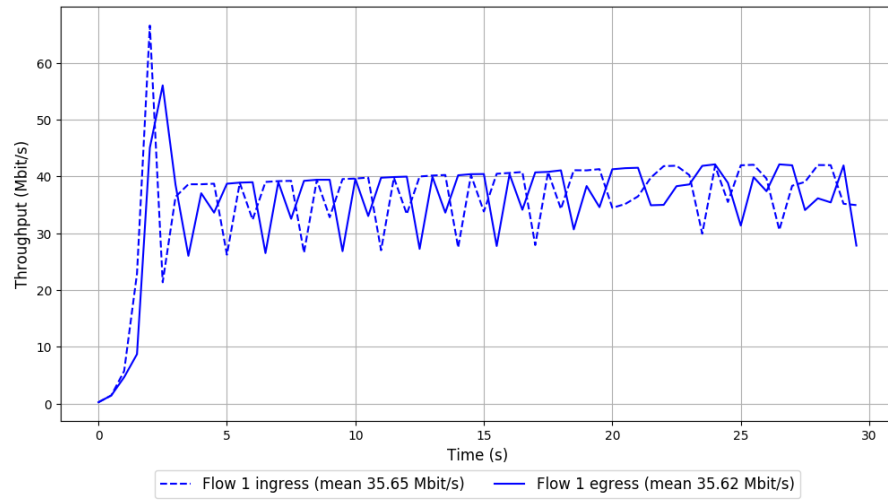
-- Flow 1:

Average throughput: 35.62 Mbit/s

95th percentile per-packet one-way delay: 137.983 ms

Loss rate: 0.99%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-17 19:09:47

End at: 2018-04-17 19:10:17

Below is generated by plot.py at 2018-04-18 00:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.76 Mbit/s

95th percentile per-packet one-way delay: 137.782 ms

Loss rate: 1.00%

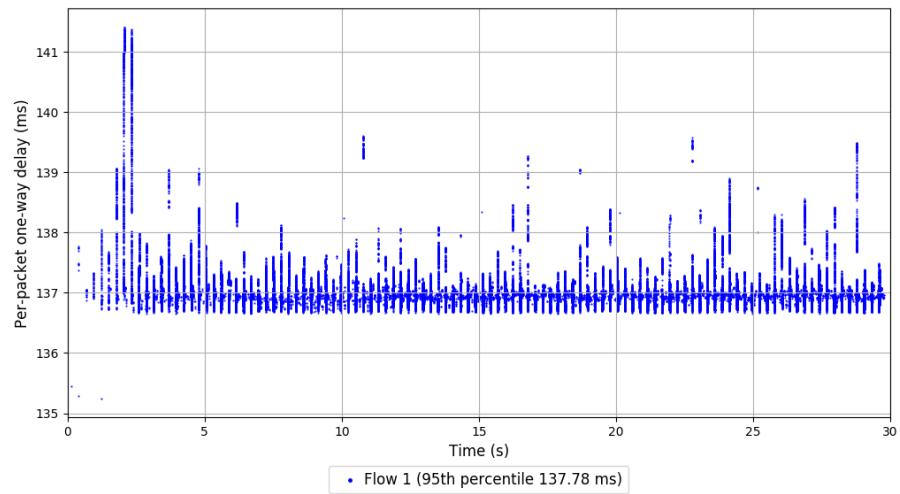
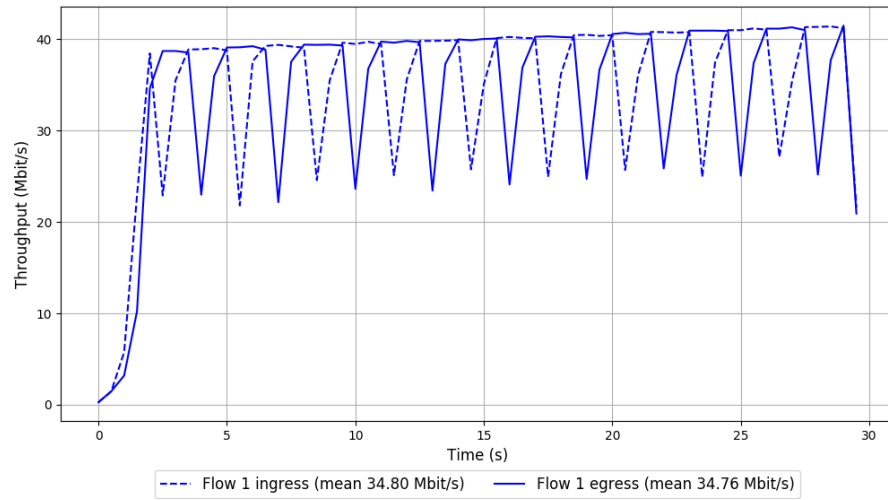
-- Flow 1:

Average throughput: 34.76 Mbit/s

95th percentile per-packet one-way delay: 137.782 ms

Loss rate: 1.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-17 19:23:56

End at: 2018-04-17 19:24:26

Below is generated by plot.py at 2018-04-18 00:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.76 Mbit/s

95th percentile per-packet one-way delay: 138.812 ms

Loss rate: 0.96%

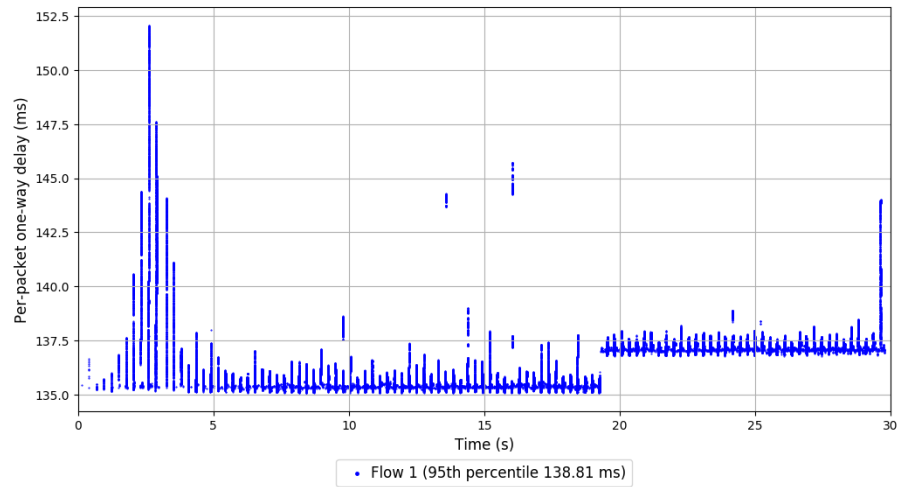
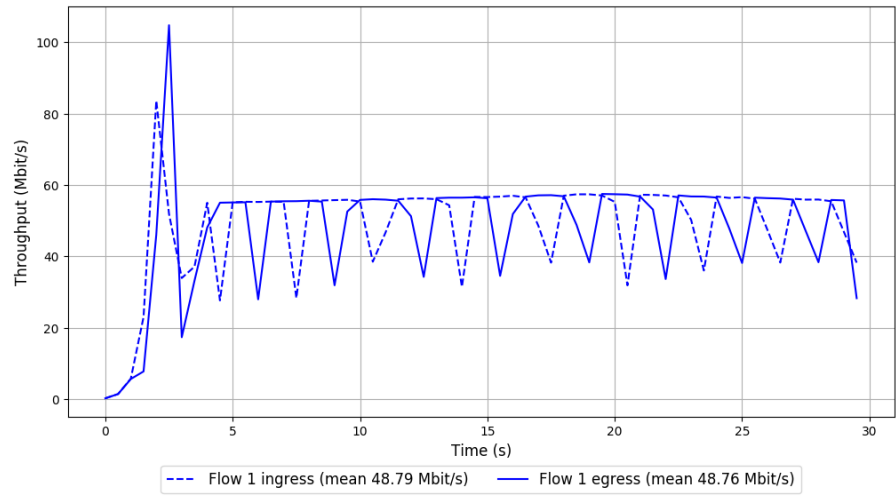
-- Flow 1:

Average throughput: 48.76 Mbit/s

95th percentile per-packet one-way delay: 138.812 ms

Loss rate: 0.96%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-04-17 19:38:09

End at: 2018-04-17 19:38:39

Below is generated by plot.py at 2018-04-18 00:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.07 Mbit/s

95th percentile per-packet one-way delay: 137.856 ms

Loss rate: 0.94%

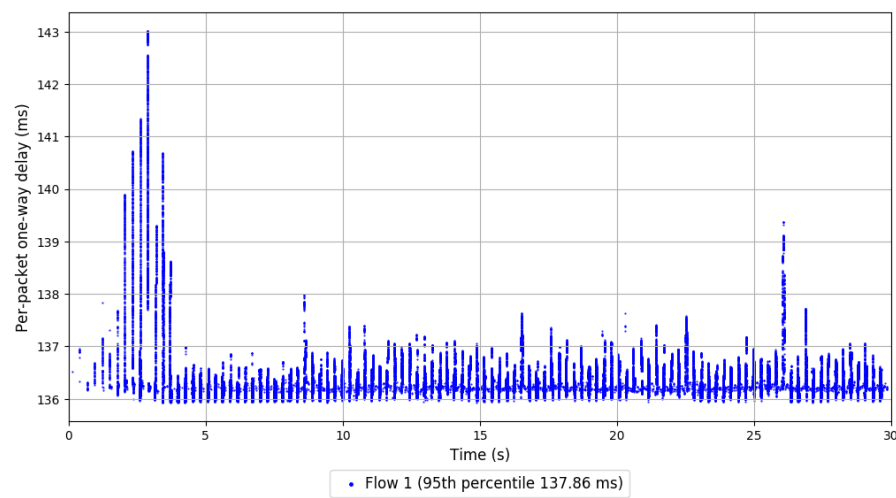
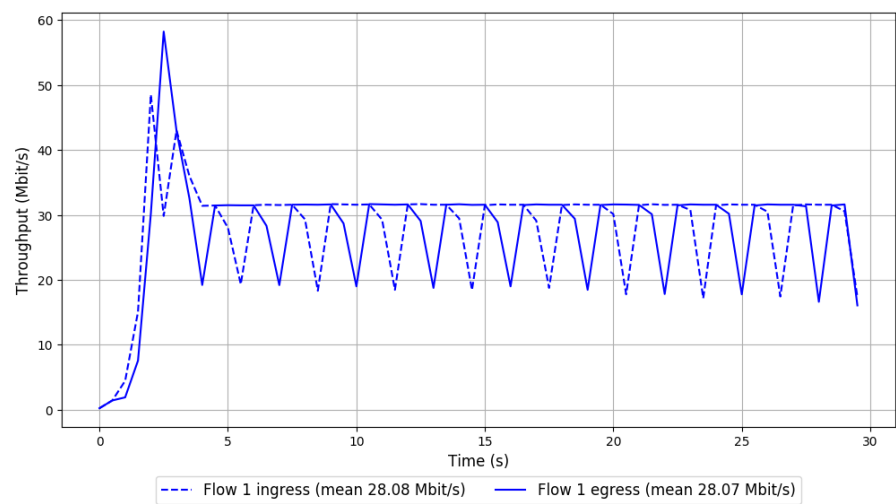
-- Flow 1:

Average throughput: 28.07 Mbit/s

95th percentile per-packet one-way delay: 137.856 ms

Loss rate: 0.94%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-17 19:52:39

End at: 2018-04-17 19:53:09

Below is generated by plot.py at 2018-04-18 00:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.07 Mbit/s

95th percentile per-packet one-way delay: 137.262 ms

Loss rate: 1.00%

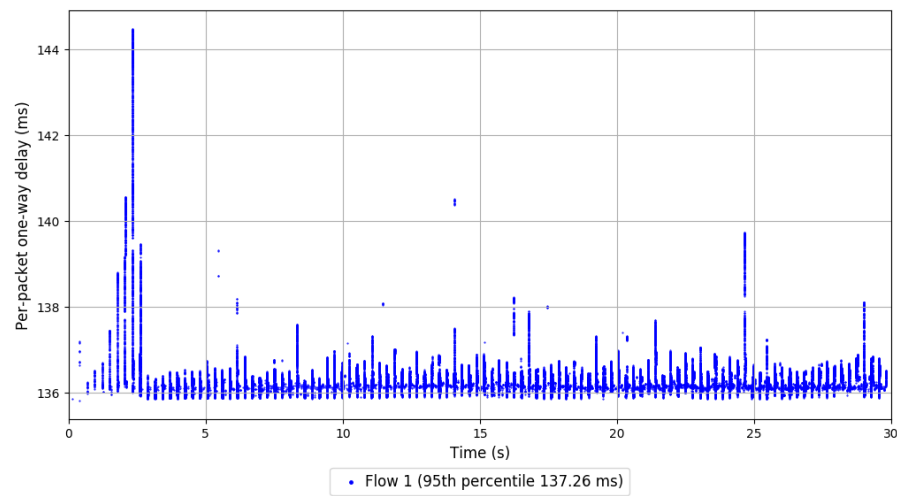
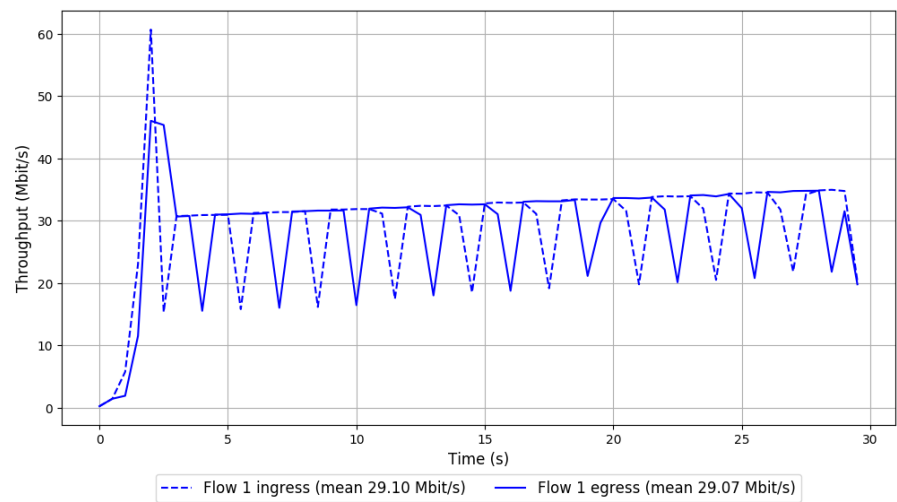
-- Flow 1:

Average throughput: 29.07 Mbit/s

95th percentile per-packet one-way delay: 137.262 ms

Loss rate: 1.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-04-17 20:07:09

End at: 2018-04-17 20:07:39

Below is generated by plot.py at 2018-04-18 00:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.92 Mbit/s

95th percentile per-packet one-way delay: 137.327 ms

Loss rate: 0.99%

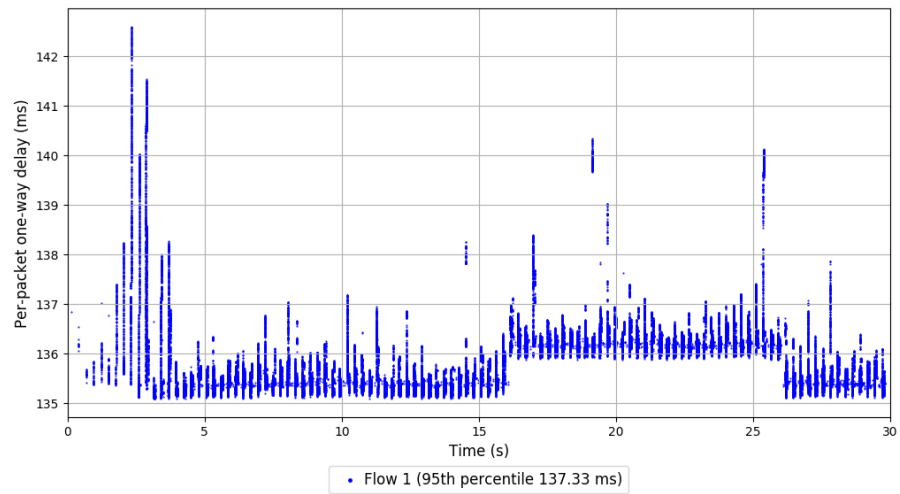
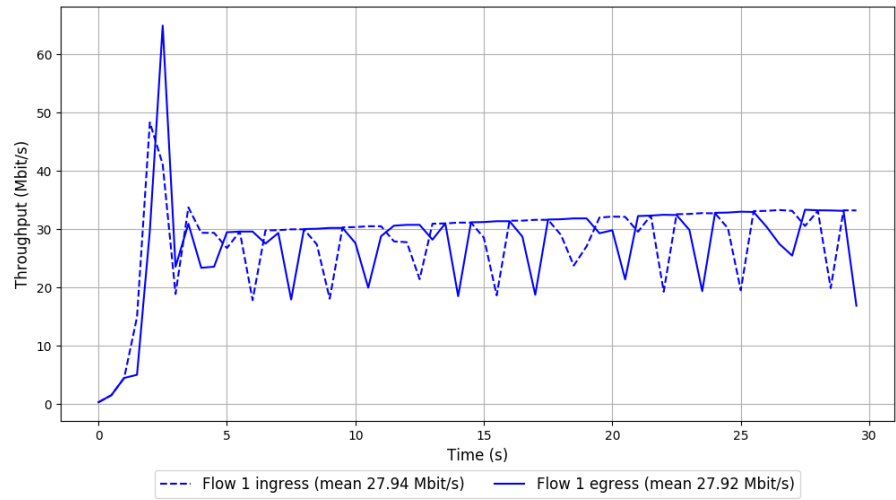
-- Flow 1:

Average throughput: 27.92 Mbit/s

95th percentile per-packet one-way delay: 137.327 ms

Loss rate: 0.99%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-04-17 20:21:40

End at: 2018-04-17 20:22:10

Below is generated by plot.py at 2018-04-18 00:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.20 Mbit/s

95th percentile per-packet one-way delay: 138.181 ms

Loss rate: 0.97%

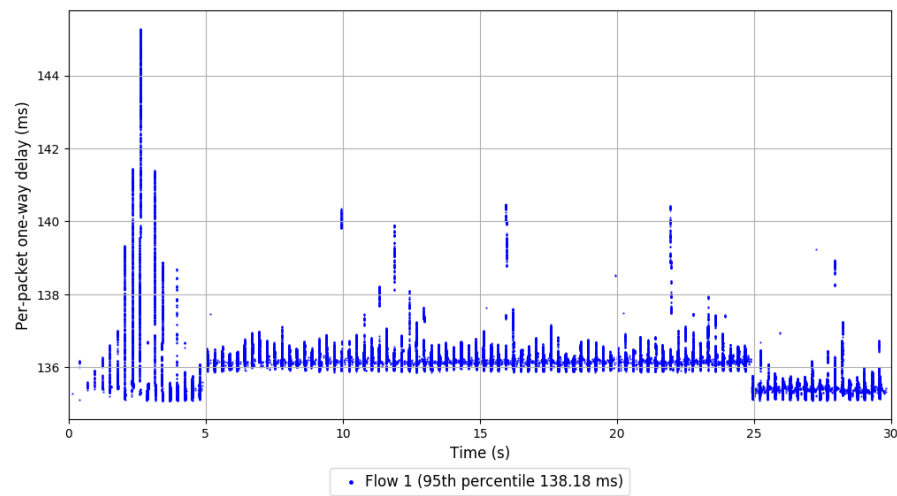
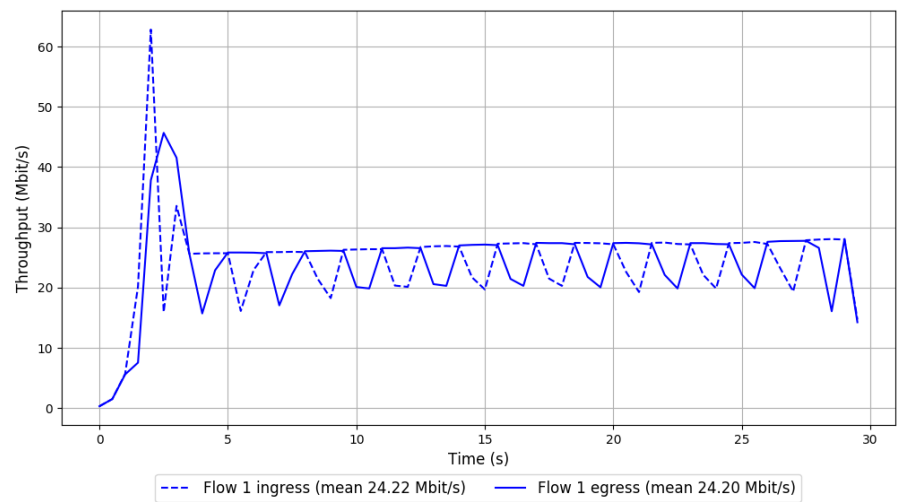
-- Flow 1:

Average throughput: 24.20 Mbit/s

95th percentile per-packet one-way delay: 138.181 ms

Loss rate: 0.97%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-17 20:36:05

End at: 2018-04-17 20:36:35

Below is generated by plot.py at 2018-04-18 00:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.16 Mbit/s

95th percentile per-packet one-way delay: 138.173 ms

Loss rate: 0.97%

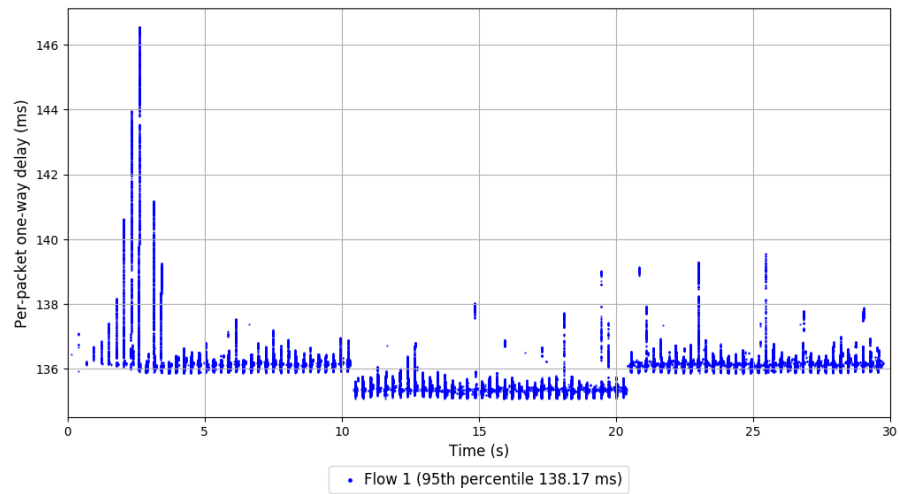
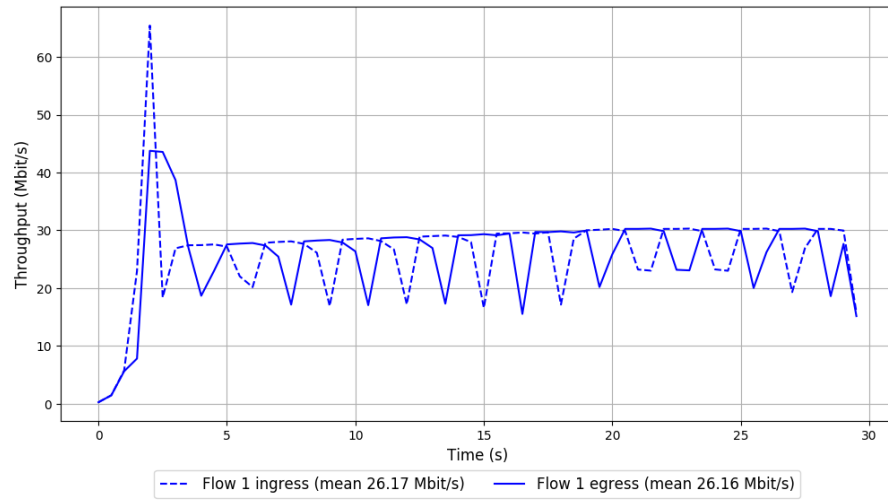
-- Flow 1:

Average throughput: 26.16 Mbit/s

95th percentile per-packet one-way delay: 138.173 ms

Loss rate: 0.97%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-04-17 20:50:34

End at: 2018-04-17 20:51:04

Below is generated by plot.py at 2018-04-18 00:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.28 Mbit/s

95th percentile per-packet one-way delay: 136.410 ms

Loss rate: 0.94%

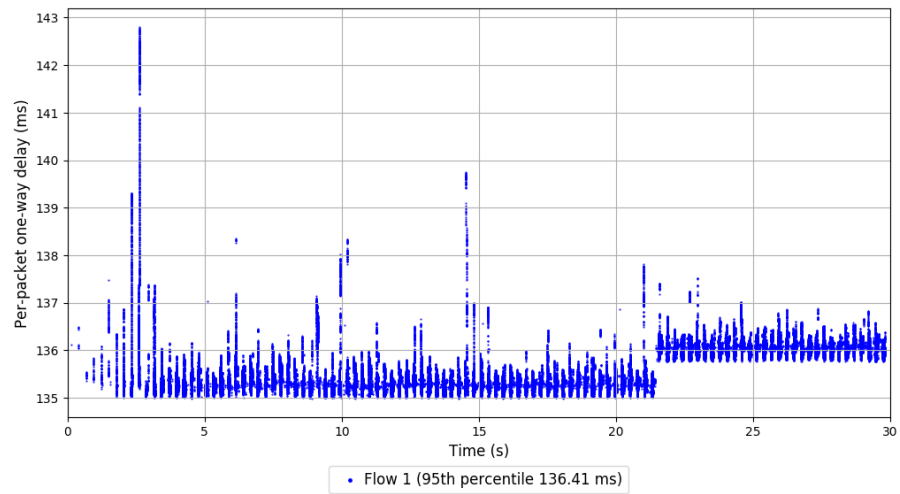
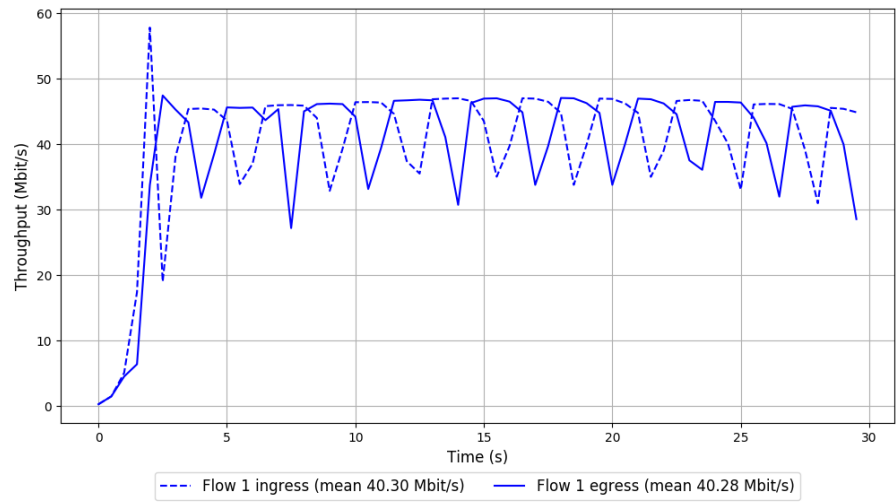
-- Flow 1:

Average throughput: 40.28 Mbit/s

95th percentile per-packet one-way delay: 136.410 ms

Loss rate: 0.94%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-17 21:05:04

End at: 2018-04-17 21:05:34

Below is generated by plot.py at 2018-04-18 00:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.77 Mbit/s

95th percentile per-packet one-way delay: 137.081 ms

Loss rate: 1.01%

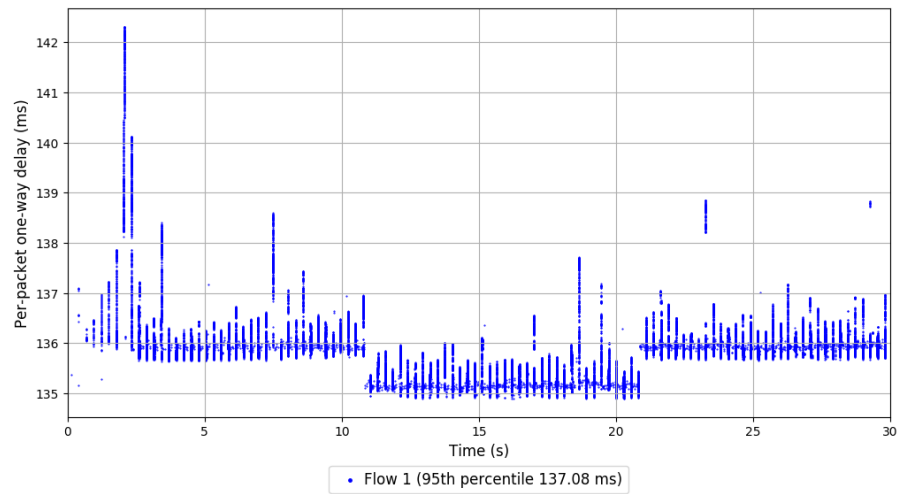
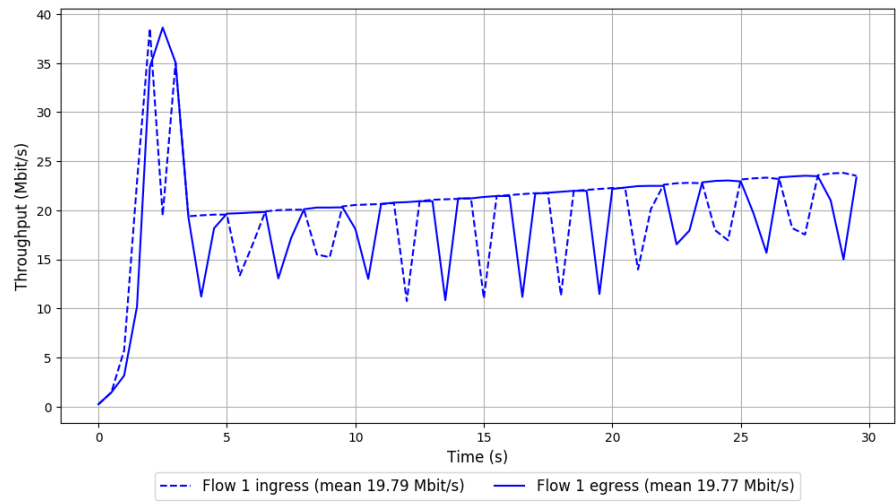
-- Flow 1:

Average throughput: 19.77 Mbit/s

95th percentile per-packet one-way delay: 137.081 ms

Loss rate: 1.01%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-04-17 18:54:43

End at: 2018-04-17 18:55:13

Below is generated by plot.py at 2018-04-18 00:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.72 Mbit/s

95th percentile per-packet one-way delay: 200.786 ms

Loss rate: 3.09%

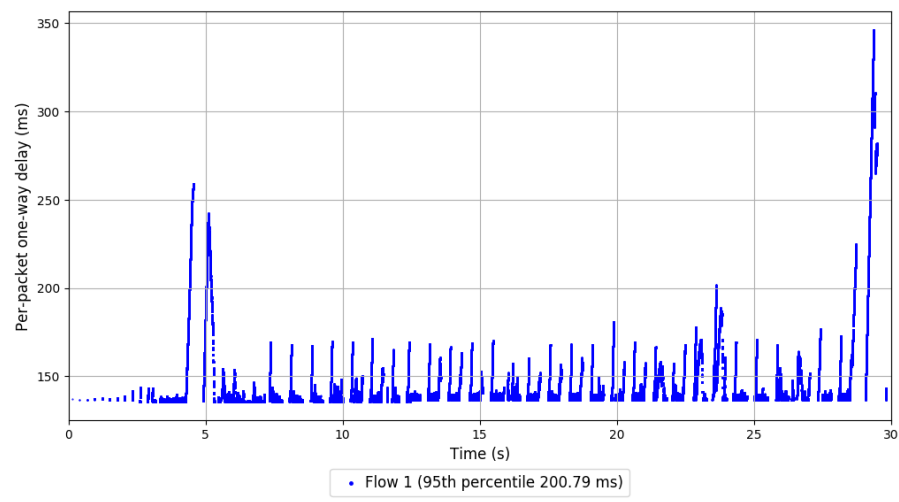
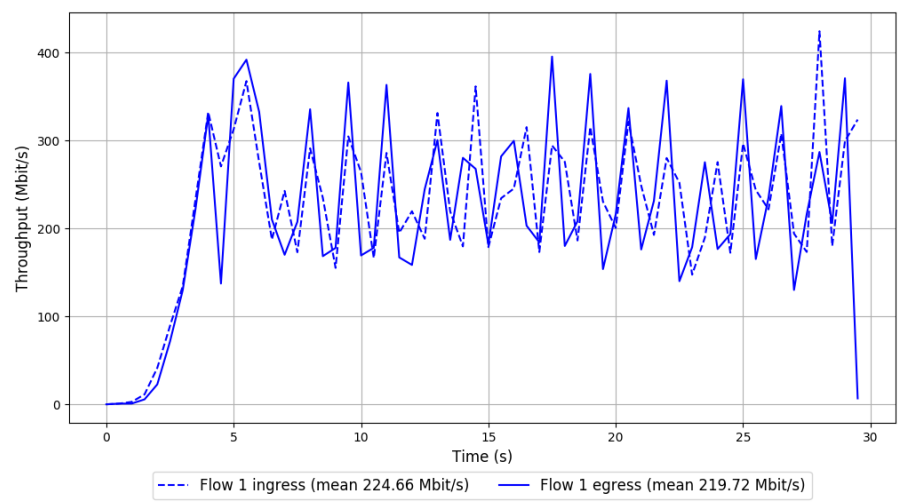
-- Flow 1:

Average throughput: 219.72 Mbit/s

95th percentile per-packet one-way delay: 200.786 ms

Loss rate: 3.09%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-04-17 19:08:54

End at: 2018-04-17 19:09:24

Below is generated by plot.py at 2018-04-18 00:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 143.96 Mbit/s

95th percentile per-packet one-way delay: 149.464 ms

Loss rate: 0.87%

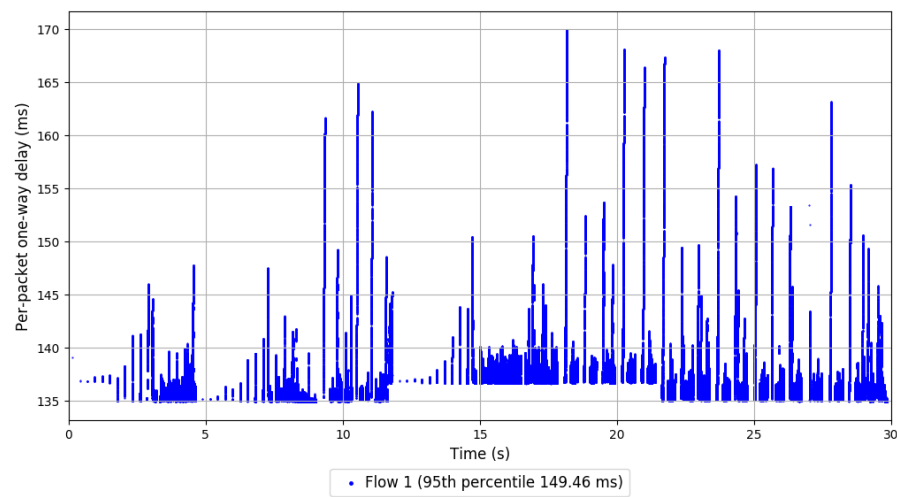
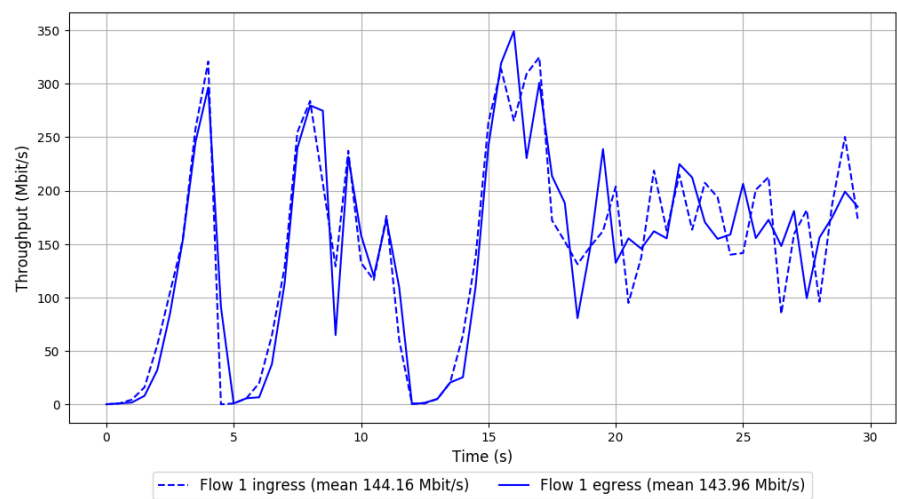
-- Flow 1:

Average throughput: 143.96 Mbit/s

95th percentile per-packet one-way delay: 149.464 ms

Loss rate: 0.87%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-17 19:23:07

End at: 2018-04-17 19:23:37

Below is generated by plot.py at 2018-04-18 00:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.50 Mbit/s

95th percentile per-packet one-way delay: 154.908 ms

Loss rate: 3.79%

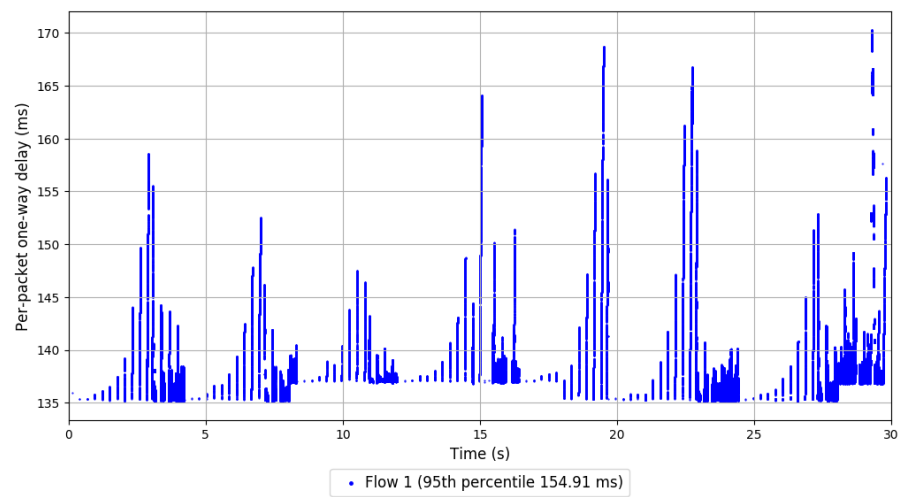
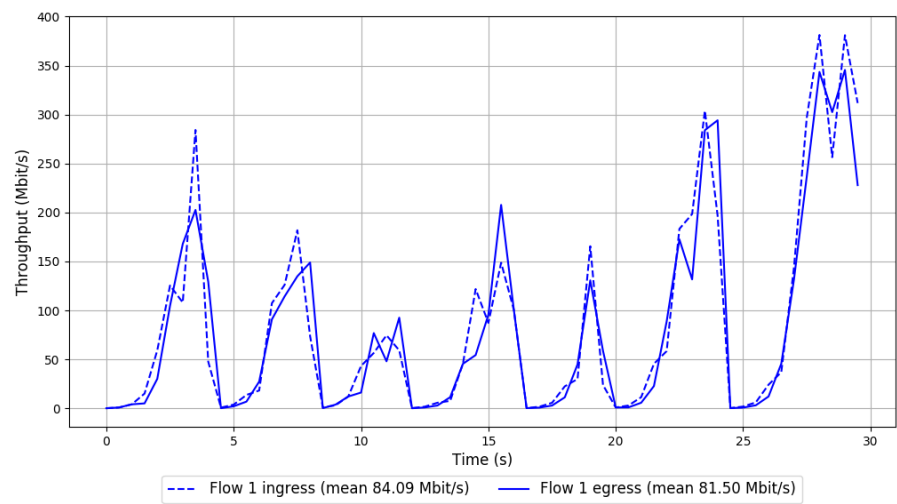
-- Flow 1:

Average throughput: 81.50 Mbit/s

95th percentile per-packet one-way delay: 154.908 ms

Loss rate: 3.79%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-04-17 19:37:16

End at: 2018-04-17 19:37:46

Below is generated by plot.py at 2018-04-18 00:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 136.15 Mbit/s

95th percentile per-packet one-way delay: 150.055 ms

Loss rate: 1.34%

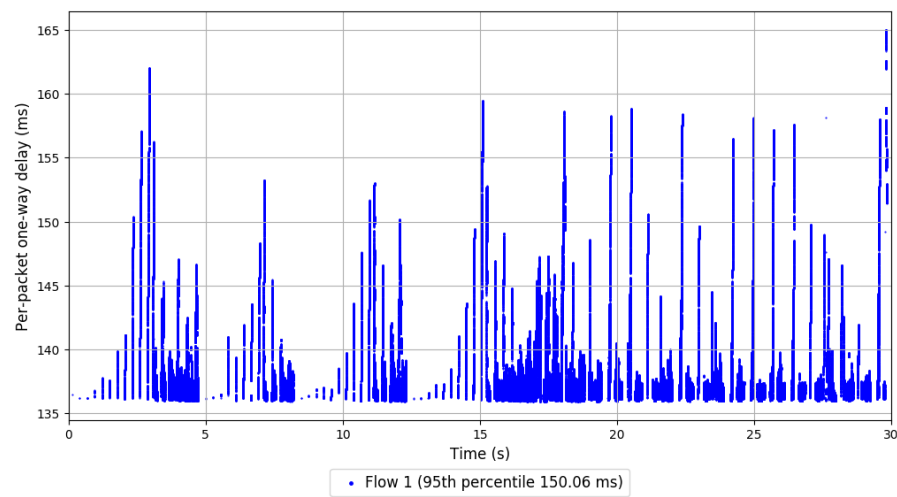
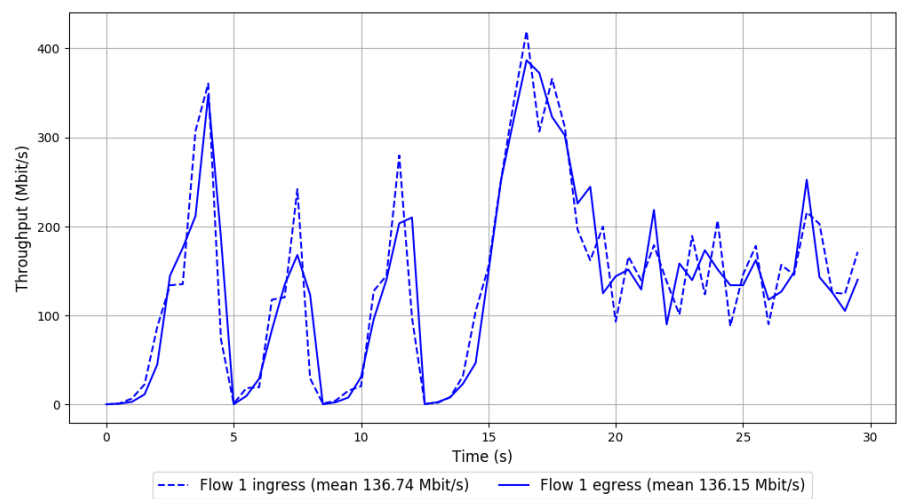
-- Flow 1:

Average throughput: 136.15 Mbit/s

95th percentile per-packet one-way delay: 150.055 ms

Loss rate: 1.34%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-17 19:51:49

End at: 2018-04-17 19:52:19

Below is generated by plot.py at 2018-04-18 00:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.21 Mbit/s

95th percentile per-packet one-way delay: 196.229 ms

Loss rate: 2.92%

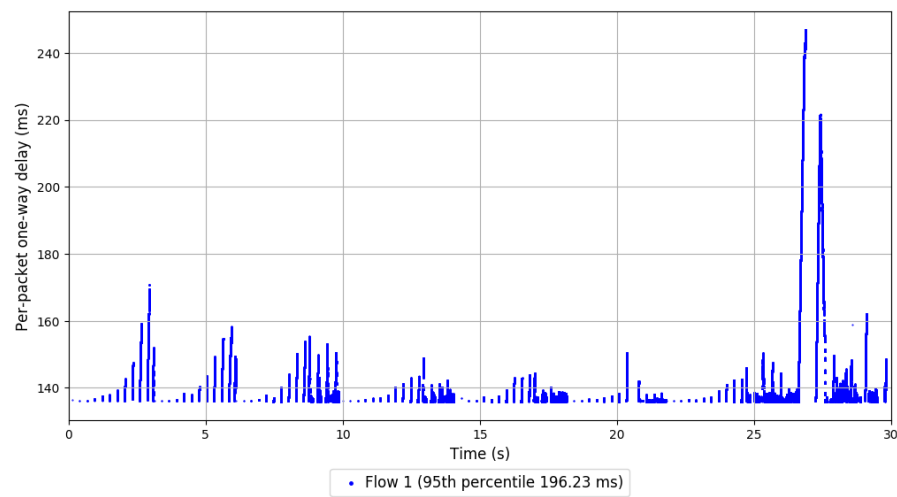
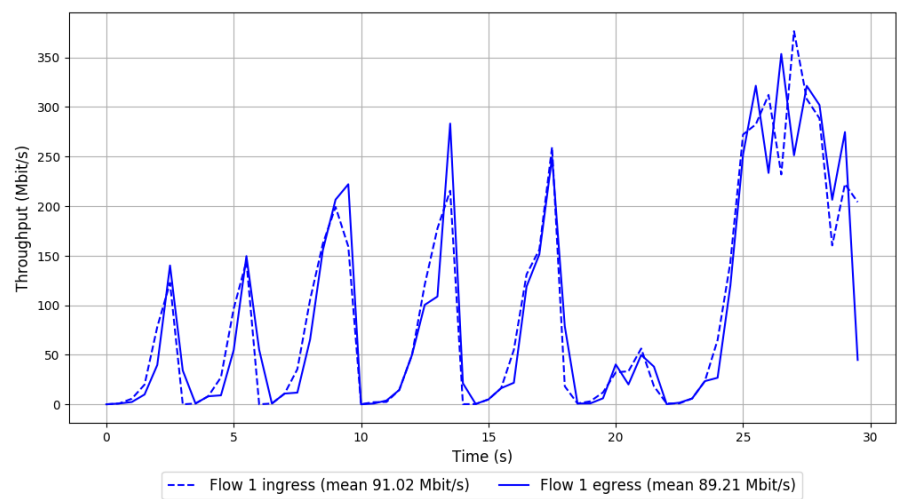
-- Flow 1:

Average throughput: 89.21 Mbit/s

95th percentile per-packet one-way delay: 196.229 ms

Loss rate: 2.92%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-17 20:06:13

End at: 2018-04-17 20:06:43

Below is generated by plot.py at 2018-04-18 00:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.07 Mbit/s

95th percentile per-packet one-way delay: 231.298 ms

Loss rate: 1.48%

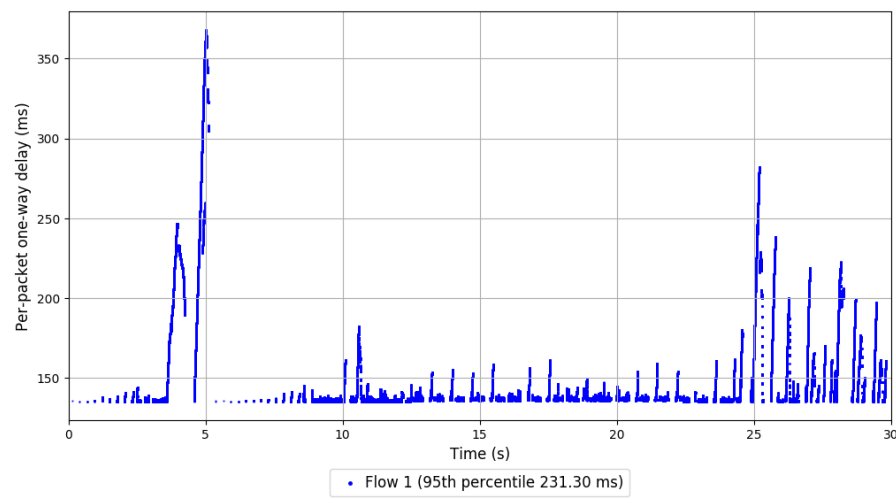
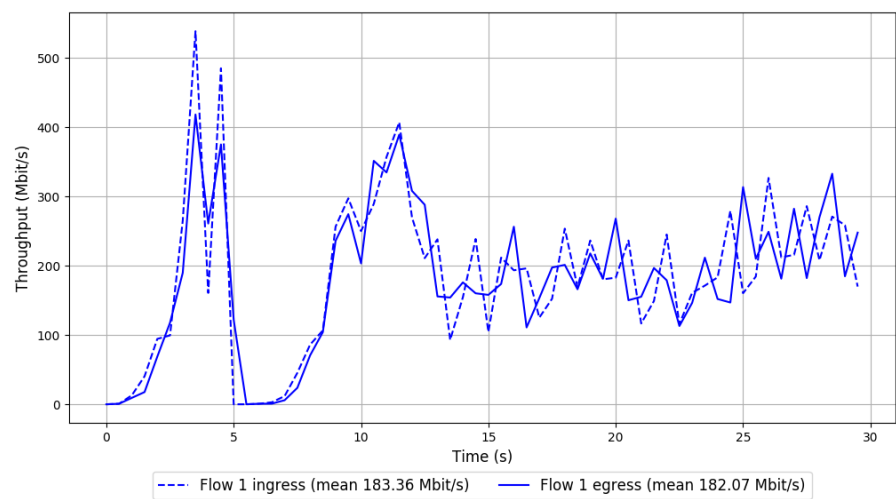
-- Flow 1:

Average throughput: 182.07 Mbit/s

95th percentile per-packet one-way delay: 231.298 ms

Loss rate: 1.48%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-04-17 20:20:43

End at: 2018-04-17 20:21:13

Below is generated by plot.py at 2018-04-18 00:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.70 Mbit/s

95th percentile per-packet one-way delay: 285.167 ms

Loss rate: 7.14%

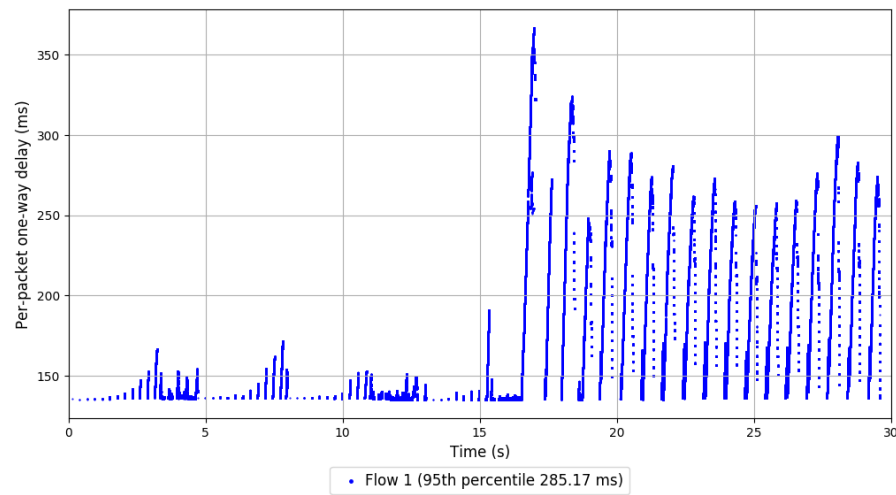
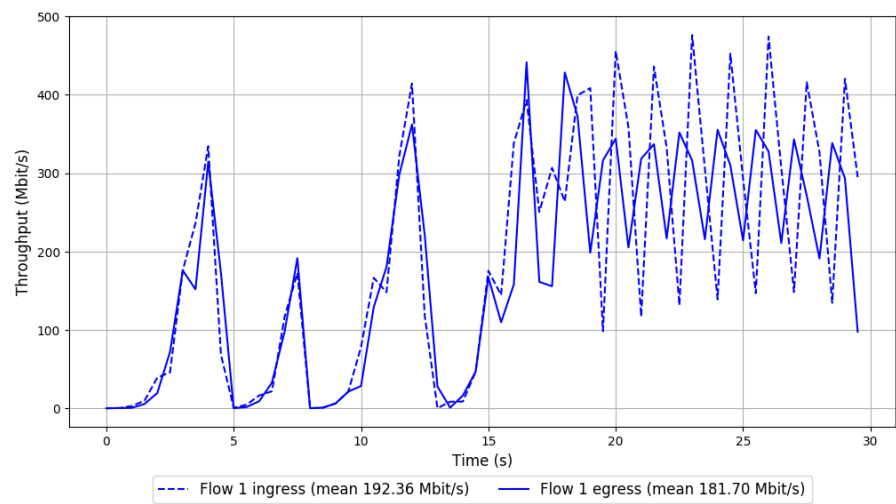
-- Flow 1:

Average throughput: 181.70 Mbit/s

95th percentile per-packet one-way delay: 285.167 ms

Loss rate: 7.14%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-04-17 20:35:11

End at: 2018-04-17 20:35:41

Below is generated by plot.py at 2018-04-18 00:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.43 Mbit/s

95th percentile per-packet one-way delay: 153.784 ms

Loss rate: 0.94%

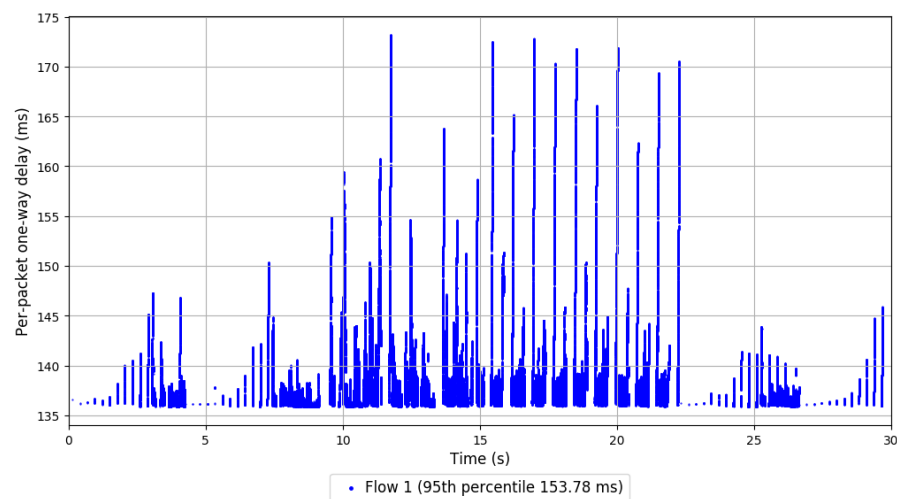
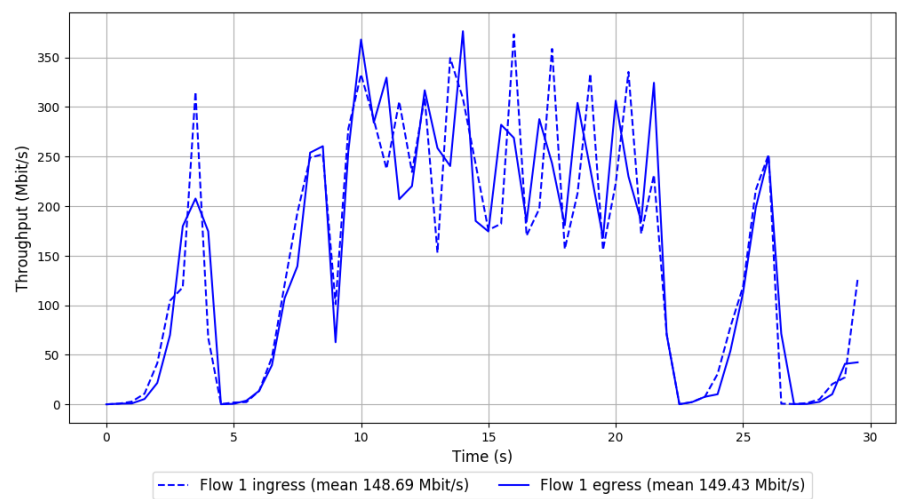
-- Flow 1:

Average throughput: 149.43 Mbit/s

95th percentile per-packet one-way delay: 153.784 ms

Loss rate: 0.94%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-04-17 20:49:38

End at: 2018-04-17 20:50:08

Below is generated by plot.py at 2018-04-18 00:01:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.94 Mbit/s

95th percentile per-packet one-way delay: 166.985 ms

Loss rate: 1.43%

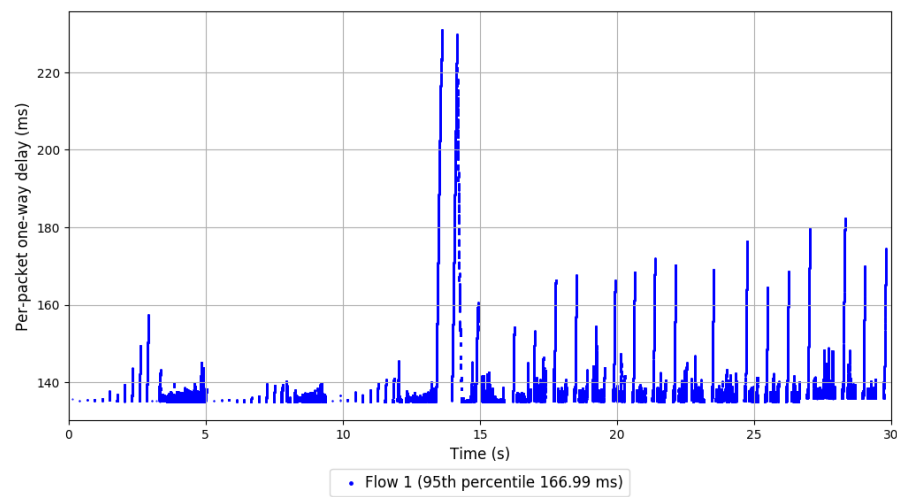
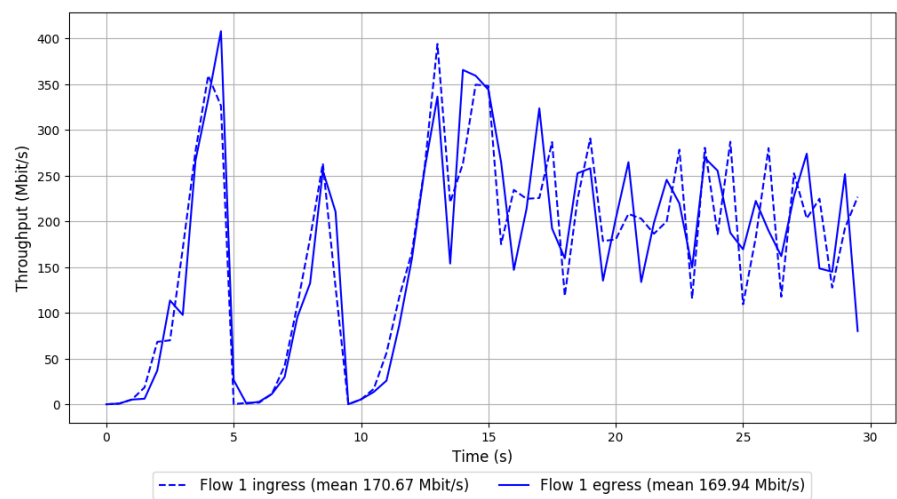
-- Flow 1:

Average throughput: 169.94 Mbit/s

95th percentile per-packet one-way delay: 166.985 ms

Loss rate: 1.43%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

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

End at: 2018-04-17 21:04:40

Below is generated by plot.py at 2018-04-18 00:02:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 164.02 Mbit/s

95th percentile per-packet one-way delay: 194.723 ms

Loss rate: 0.66%

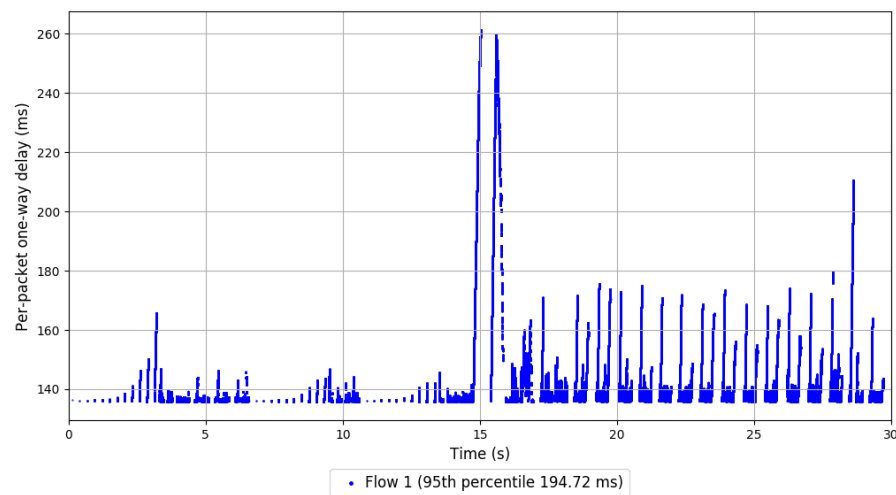
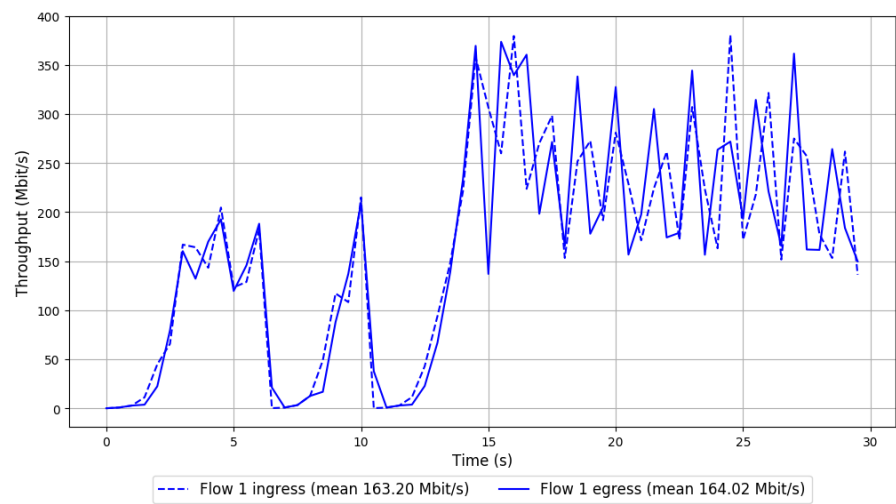
-- Flow 1:

Average throughput: 164.02 Mbit/s

95th percentile per-packet one-way delay: 194.723 ms

Loss rate: 0.66%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-17 18:47:36

End at: 2018-04-17 18:48:06

Below is generated by plot.py at 2018-04-18 00:02:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.93 Mbit/s

95th percentile per-packet one-way delay: 136.679 ms

Loss rate: 1.02%

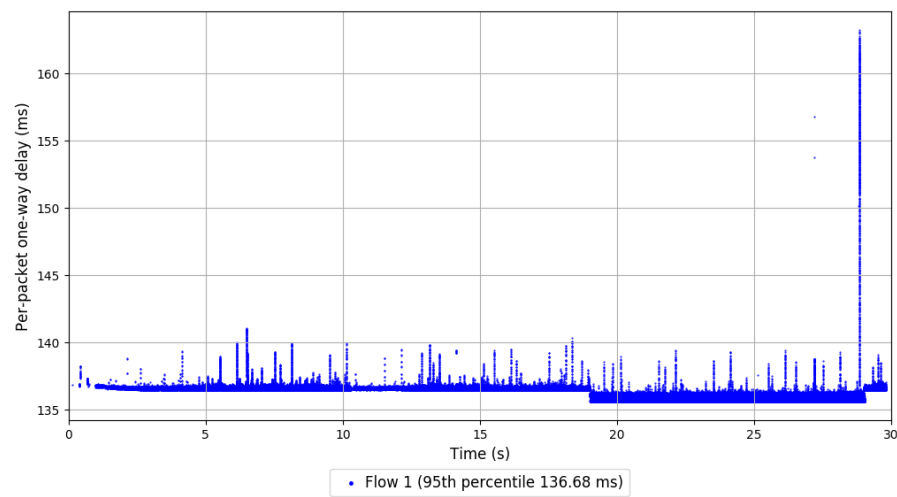
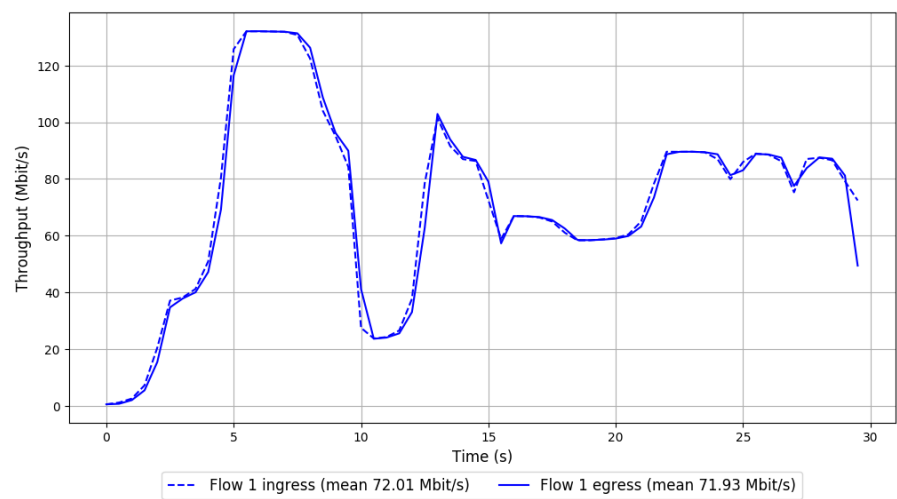
-- Flow 1:

Average throughput: 71.93 Mbit/s

95th percentile per-packet one-way delay: 136.679 ms

Loss rate: 1.02%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-04-17 19:02:05

End at: 2018-04-17 19:02:35

Below is generated by plot.py at 2018-04-18 00:02:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.95 Mbit/s

95th percentile per-packet one-way delay: 136.679 ms

Loss rate: 1.15%

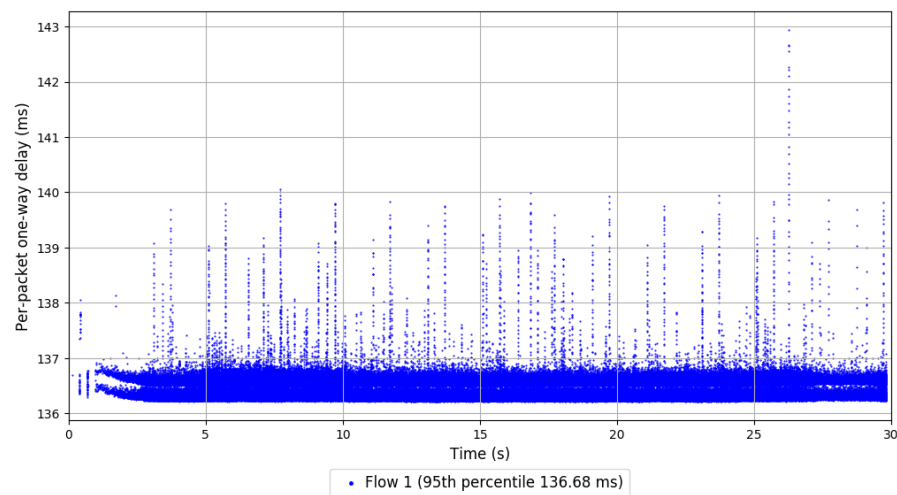
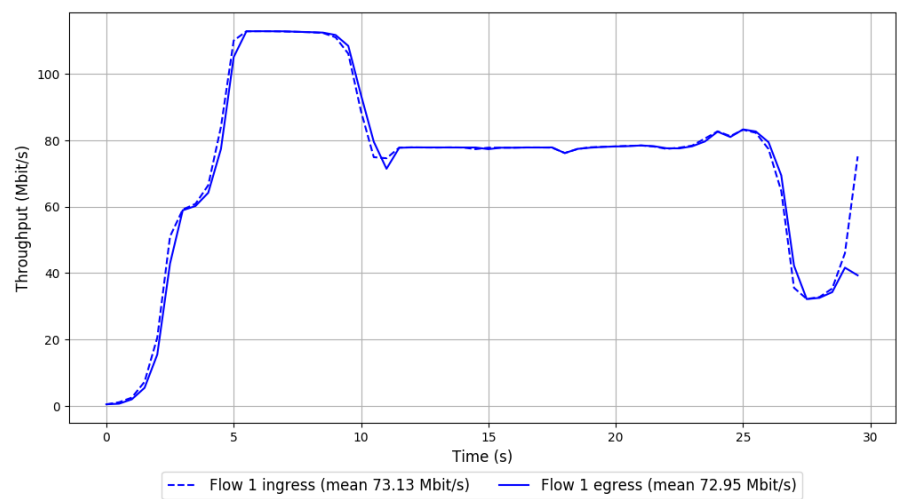
-- Flow 1:

Average throughput: 72.95 Mbit/s

95th percentile per-packet one-way delay: 136.679 ms

Loss rate: 1.15%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-04-17 19:16:10

End at: 2018-04-17 19:16:40

Below is generated by plot.py at 2018-04-18 00:03:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.78 Mbit/s

95th percentile per-packet one-way delay: 136.825 ms

Loss rate: 0.60%

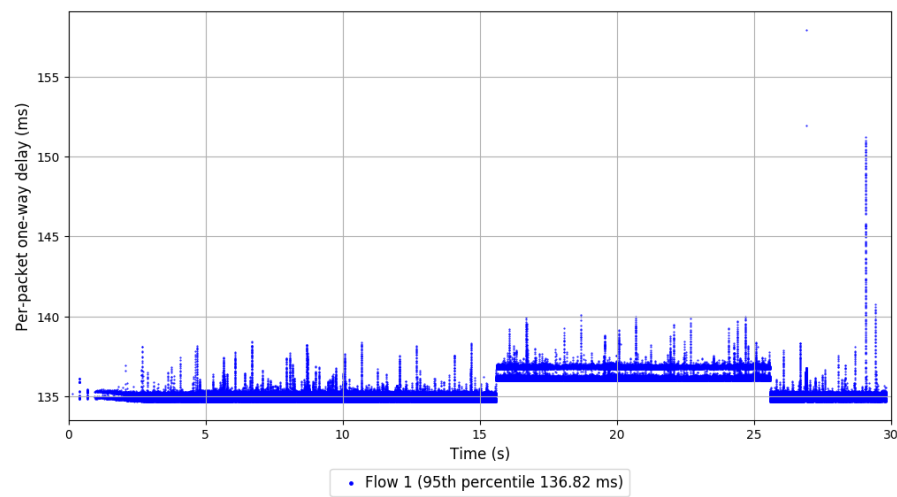
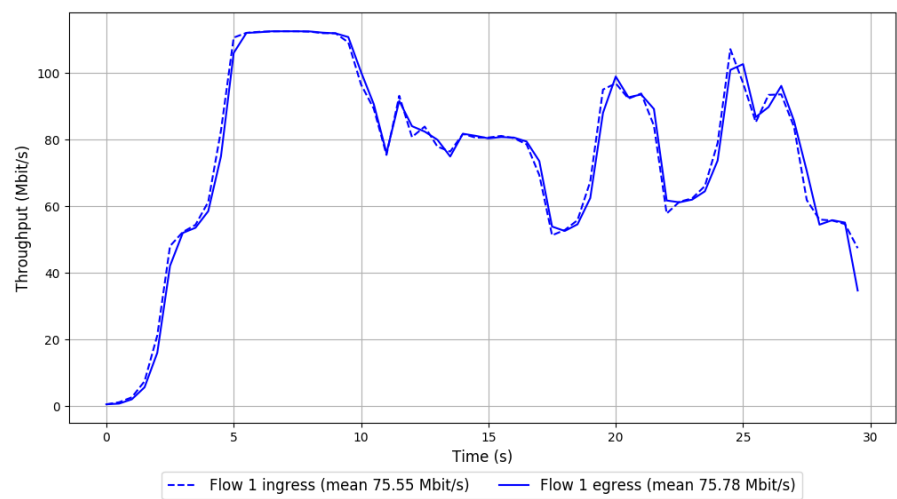
-- Flow 1:

Average throughput: 75.78 Mbit/s

95th percentile per-packet one-way delay: 136.825 ms

Loss rate: 0.60%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-04-17 19:30:22

End at: 2018-04-17 19:30:52

Below is generated by plot.py at 2018-04-18 00:03:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.83 Mbit/s

95th percentile per-packet one-way delay: 136.235 ms

Loss rate: 0.98%

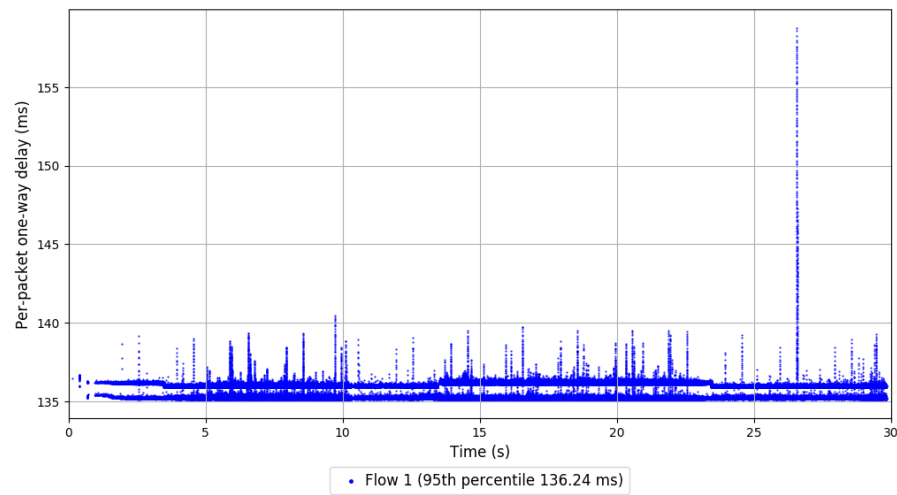
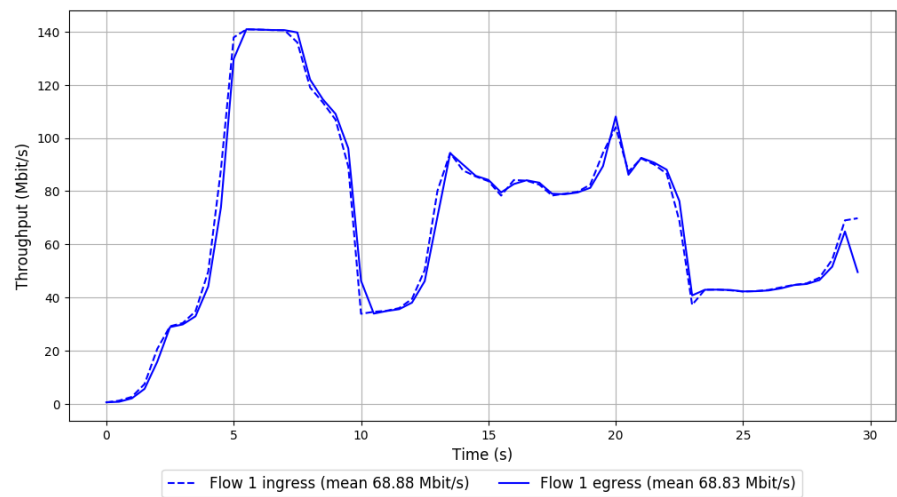
-- Flow 1:

Average throughput: 68.83 Mbit/s

95th percentile per-packet one-way delay: 136.235 ms

Loss rate: 0.98%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-04-17 19:44:33

End at: 2018-04-17 19:45:03

Below is generated by plot.py at 2018-04-18 00:03:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.17 Mbit/s

95th percentile per-packet one-way delay: 136.446 ms

Loss rate: 0.69%

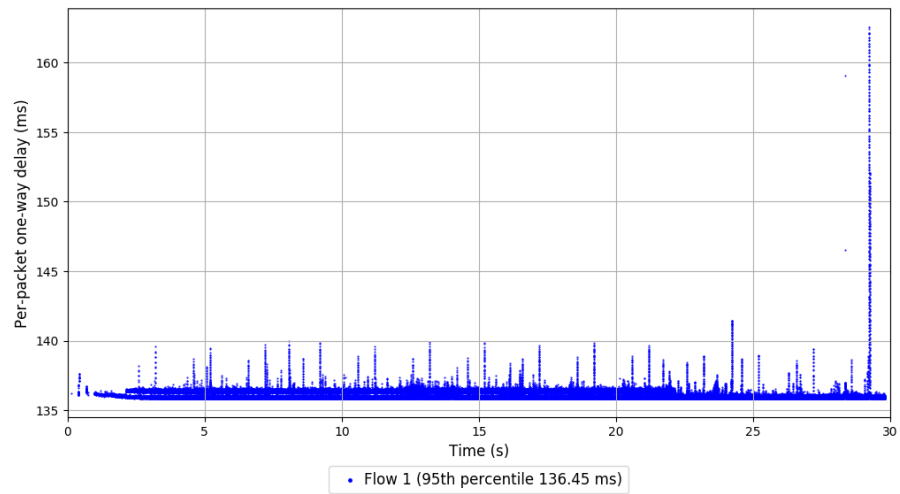
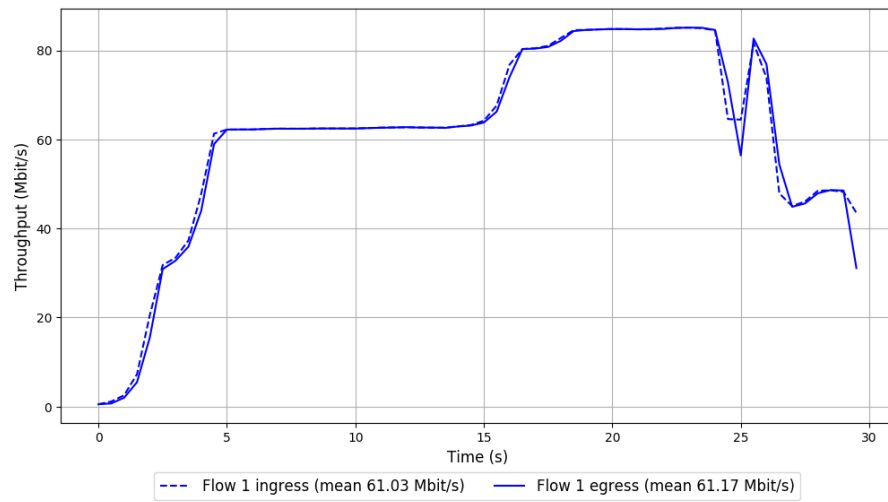
-- Flow 1:

Average throughput: 61.17 Mbit/s

95th percentile per-packet one-way delay: 136.446 ms

Loss rate: 0.69%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-04-17 19:59:02

End at: 2018-04-17 19:59:32

Below is generated by plot.py at 2018-04-18 00:03:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.66 Mbit/s

95th percentile per-packet one-way delay: 136.061 ms

Loss rate: 0.70%

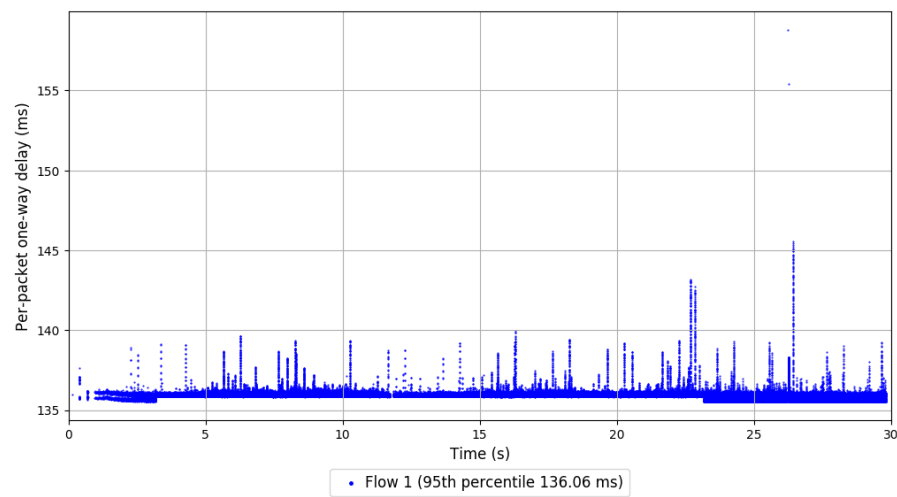
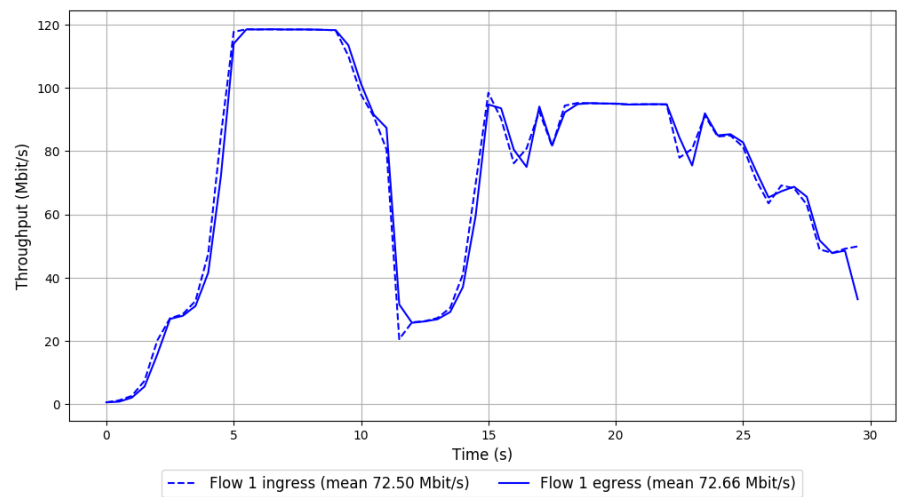
-- Flow 1:

Average throughput: 72.66 Mbit/s

95th percentile per-packet one-way delay: 136.061 ms

Loss rate: 0.70%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-04-17 20:13:32

End at: 2018-04-17 20:14:02

Below is generated by plot.py at 2018-04-18 00:04:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.92 Mbit/s

95th percentile per-packet one-way delay: 136.284 ms

Loss rate: 0.54%

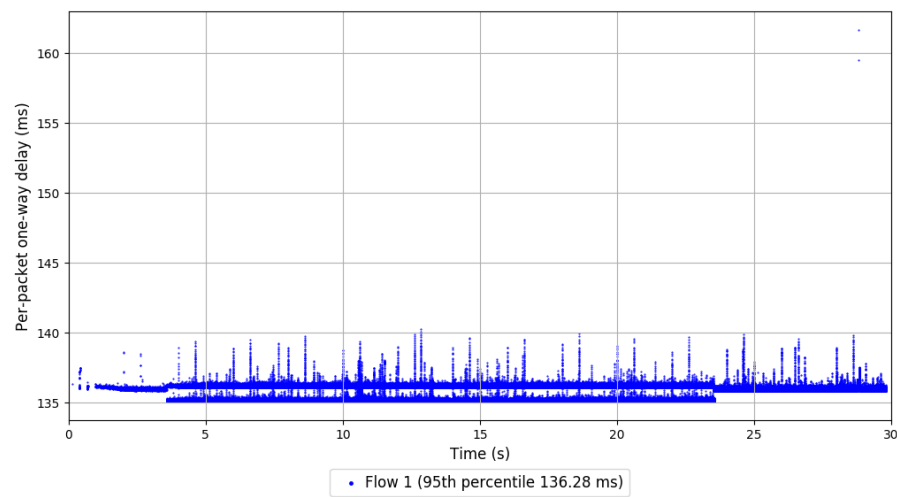
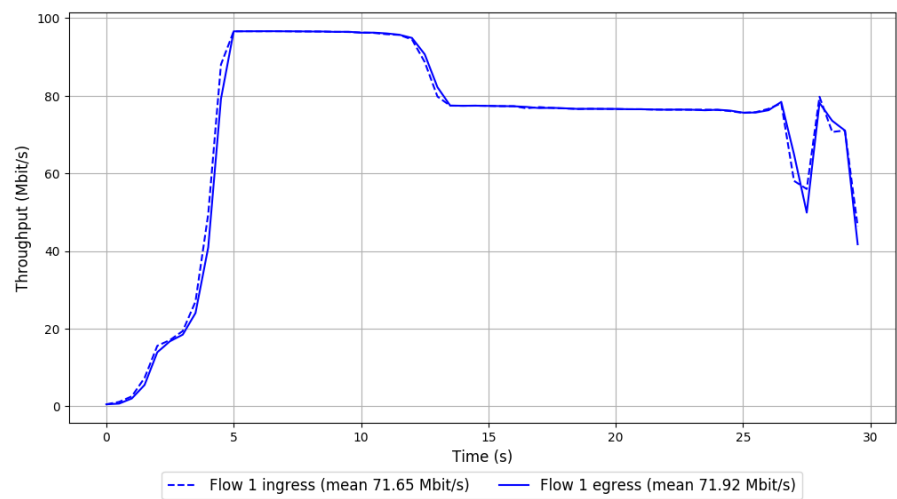
-- Flow 1:

Average throughput: 71.92 Mbit/s

95th percentile per-packet one-way delay: 136.284 ms

Loss rate: 0.54%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-17 20:28:02

End at: 2018-04-17 20:28:32

Below is generated by plot.py at 2018-04-18 00:04:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.55 Mbit/s

95th percentile per-packet one-way delay: 136.507 ms

Loss rate: 0.96%

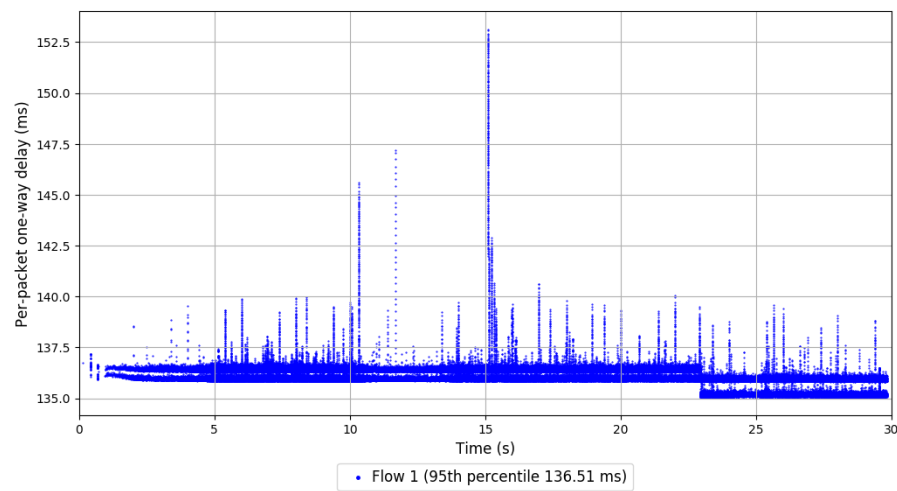
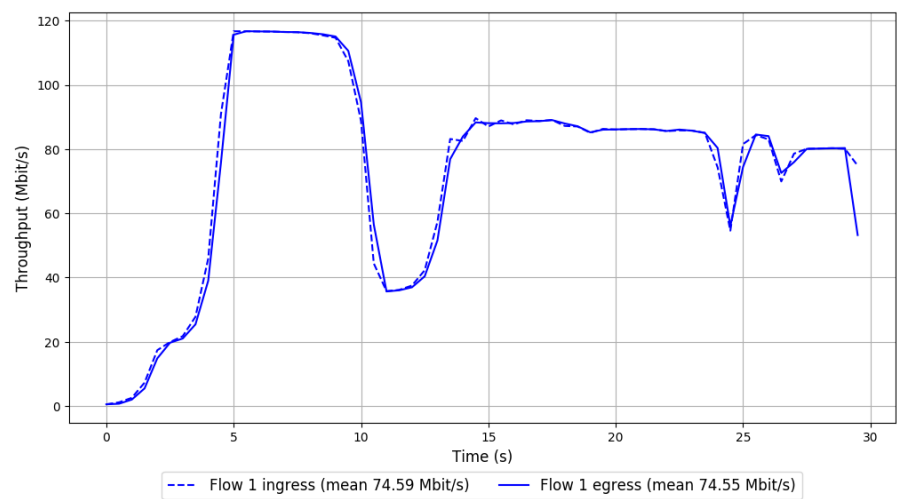
-- Flow 1:

Average throughput: 74.55 Mbit/s

95th percentile per-packet one-way delay: 136.507 ms

Loss rate: 0.96%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-17 20:42:28

End at: 2018-04-17 20:42:58

Below is generated by plot.py at 2018-04-18 00:04:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.10 Mbit/s

95th percentile per-packet one-way delay: 136.166 ms

Loss rate: 1.01%

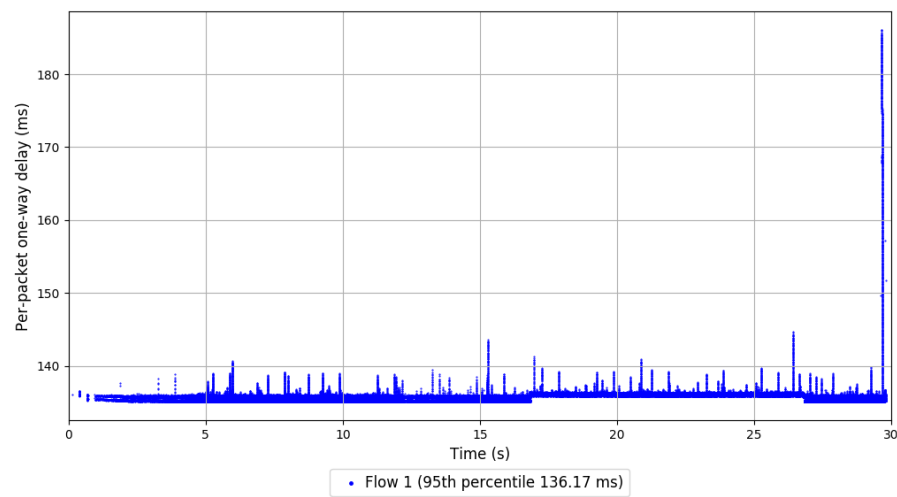
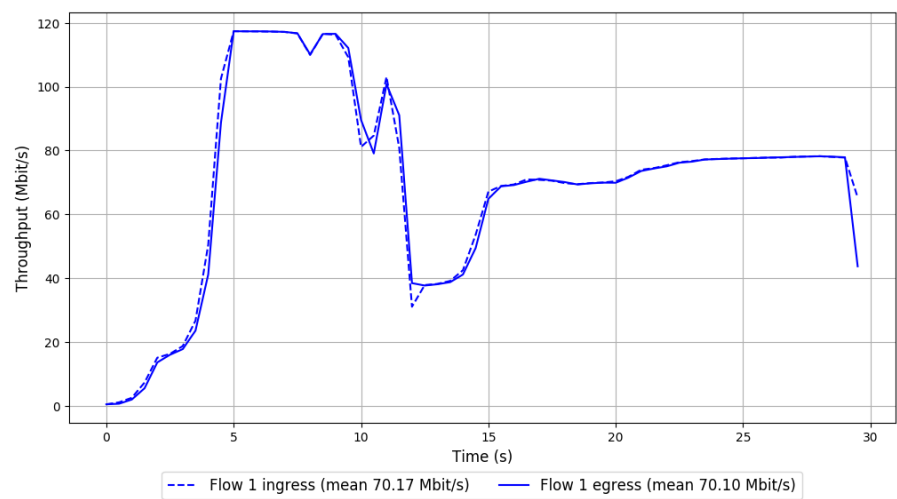
-- Flow 1:

Average throughput: 70.10 Mbit/s

95th percentile per-packet one-way delay: 136.166 ms

Loss rate: 1.01%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-17 20:56:58

End at: 2018-04-17 20:57:28

Below is generated by plot.py at 2018-04-18 00:04:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.95 Mbit/s

95th percentile per-packet one-way delay: 135.159 ms

Loss rate: 0.99%

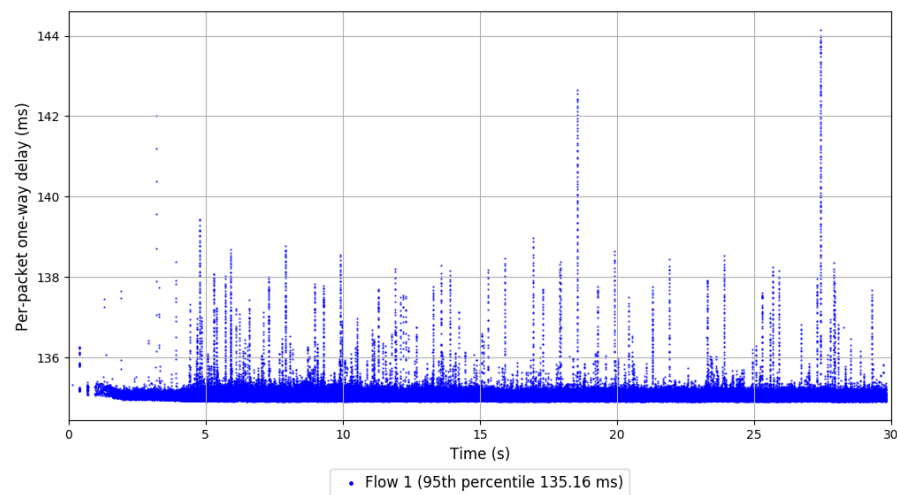
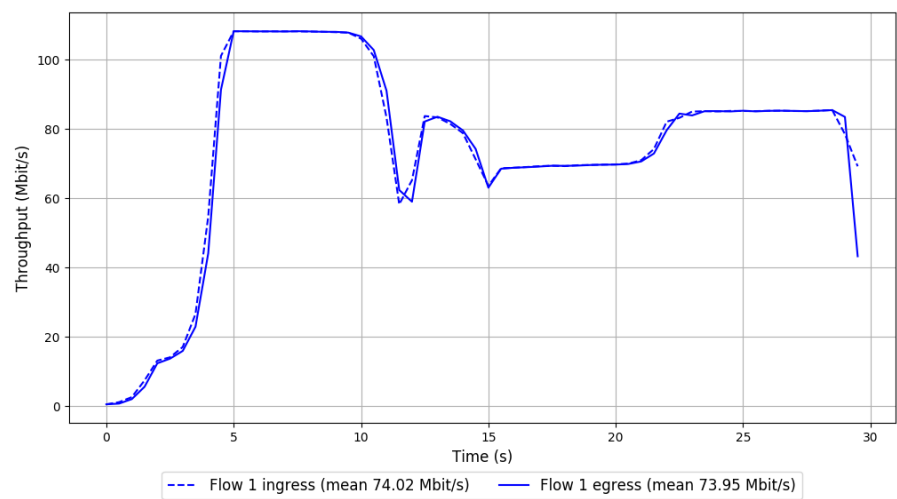
-- Flow 1:

Average throughput: 73.95 Mbit/s

95th percentile per-packet one-way delay: 135.159 ms

Loss rate: 0.99%

Run 10: Report of Copa — Data Link

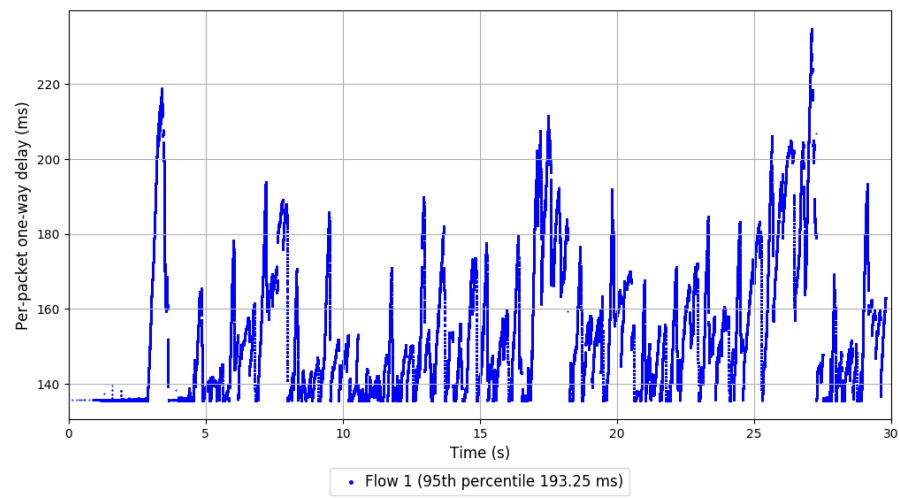
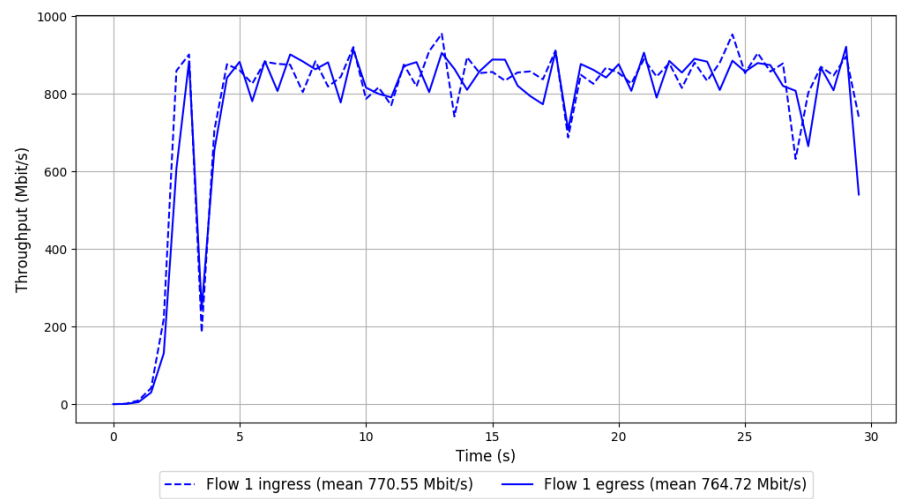


```
Run 1: Statistics of FillP

Start at: 2018-04-17 18:50:20
End at: 2018-04-17 18:50:50

# Below is generated by plot.py at 2018-04-18 00:16:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 764.72 Mbit/s
95th percentile per-packet one-way delay: 193.249 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 764.72 Mbit/s
95th percentile per-packet one-way delay: 193.249 ms
Loss rate: 1.66%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-17 19:04:46

End at: 2018-04-17 19:05:16

Below is generated by plot.py at 2018-04-18 00:16:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 762.76 Mbit/s

95th percentile per-packet one-way delay: 204.016 ms

Loss rate: 2.65%

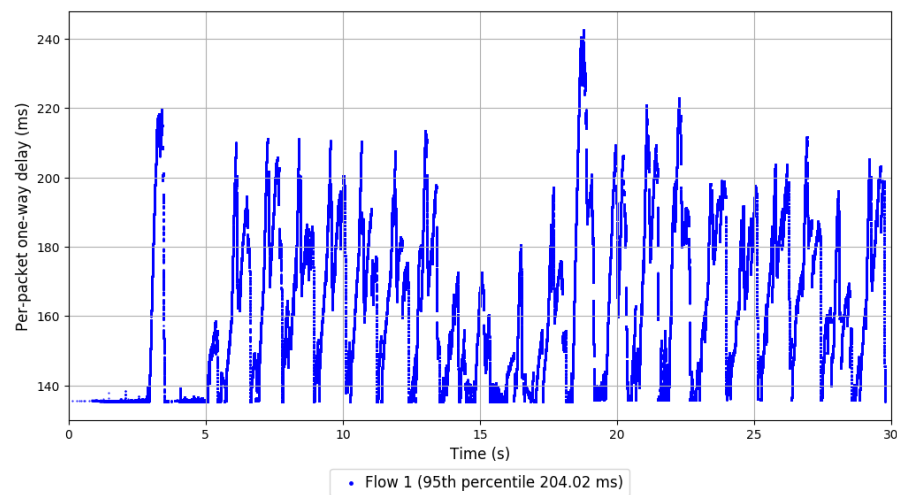
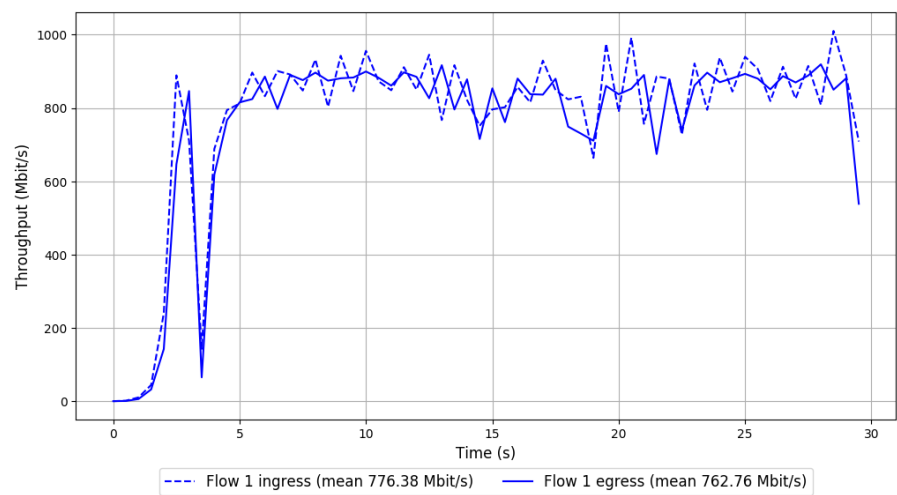
-- Flow 1:

Average throughput: 762.76 Mbit/s

95th percentile per-packet one-way delay: 204.016 ms

Loss rate: 2.65%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-04-17 19:19:00

End at: 2018-04-17 19:19:30

Below is generated by plot.py at 2018-04-18 00:17:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 782.87 Mbit/s

95th percentile per-packet one-way delay: 207.736 ms

Loss rate: 2.85%

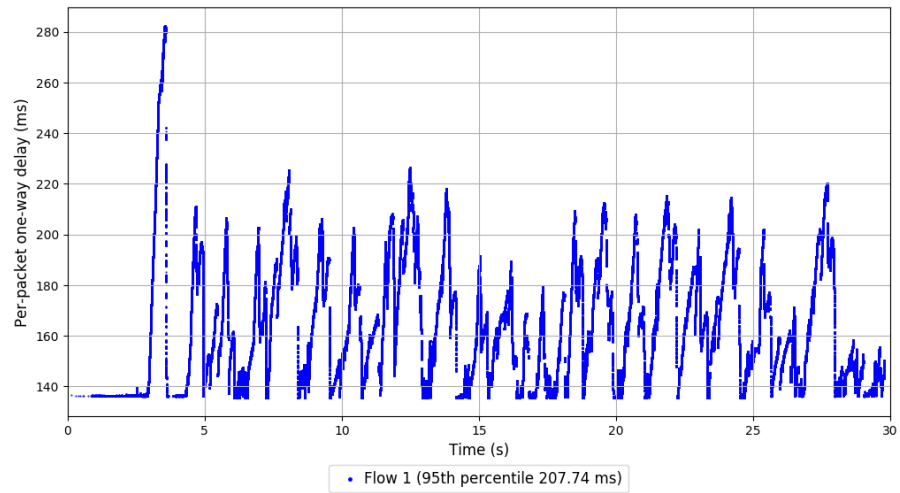
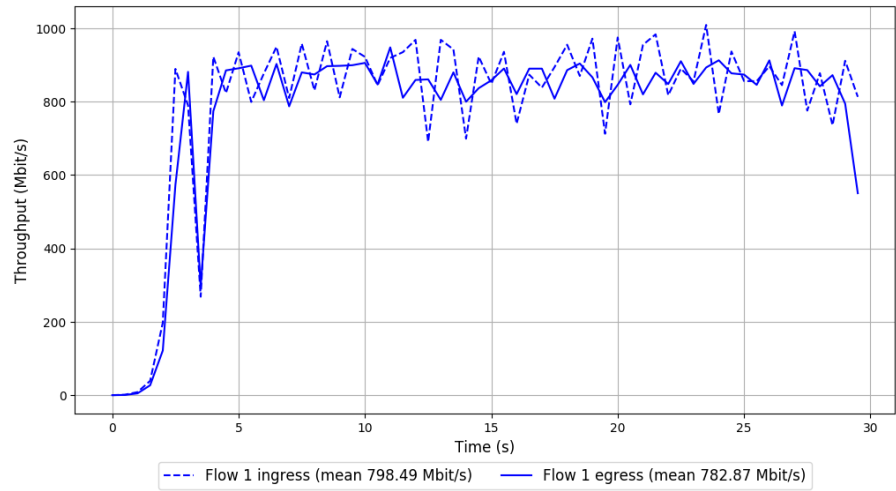
-- Flow 1:

Average throughput: 782.87 Mbit/s

95th percentile per-packet one-way delay: 207.736 ms

Loss rate: 2.85%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-04-17 19:33:08

End at: 2018-04-17 19:33:38

Below is generated by plot.py at 2018-04-18 00:17:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 778.08 Mbit/s

95th percentile per-packet one-way delay: 196.798 ms

Loss rate: 1.96%

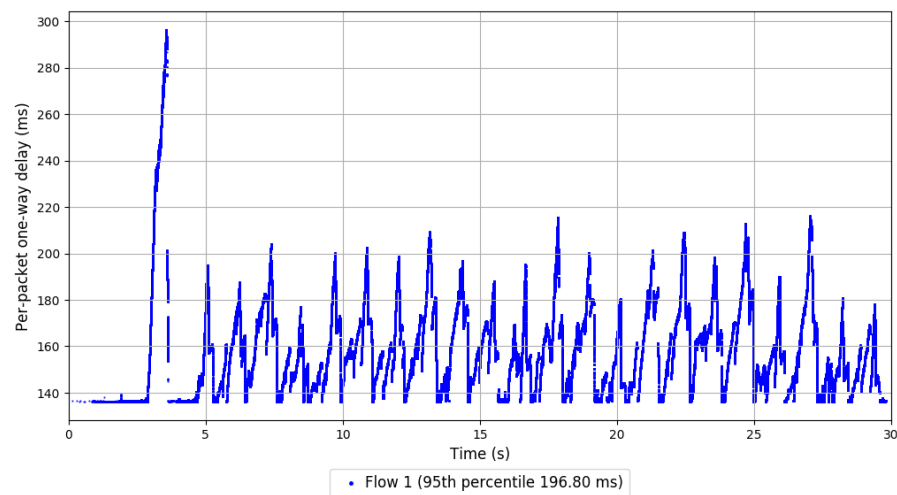
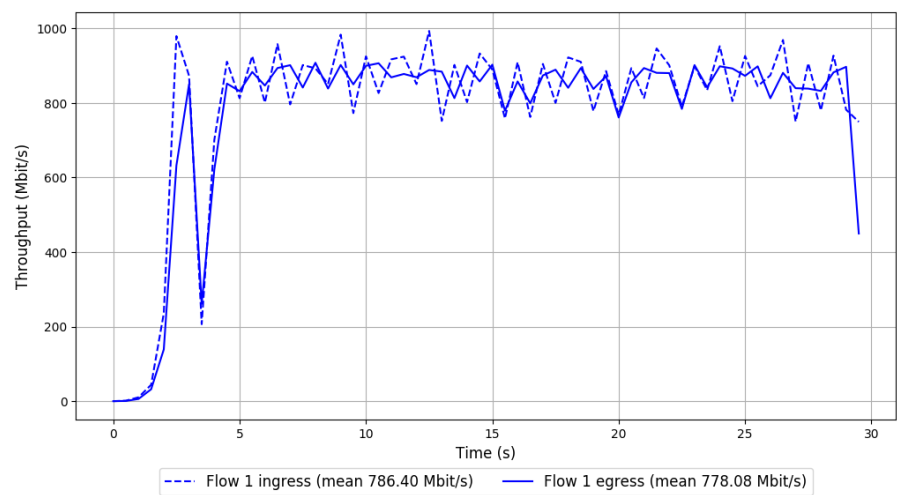
-- Flow 1:

Average throughput: 778.08 Mbit/s

95th percentile per-packet one-way delay: 196.798 ms

Loss rate: 1.96%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-17 19:47:25

End at: 2018-04-17 19:47:55

Below is generated by plot.py at 2018-04-18 00:17:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 765.41 Mbit/s

95th percentile per-packet one-way delay: 201.392 ms

Loss rate: 2.19%

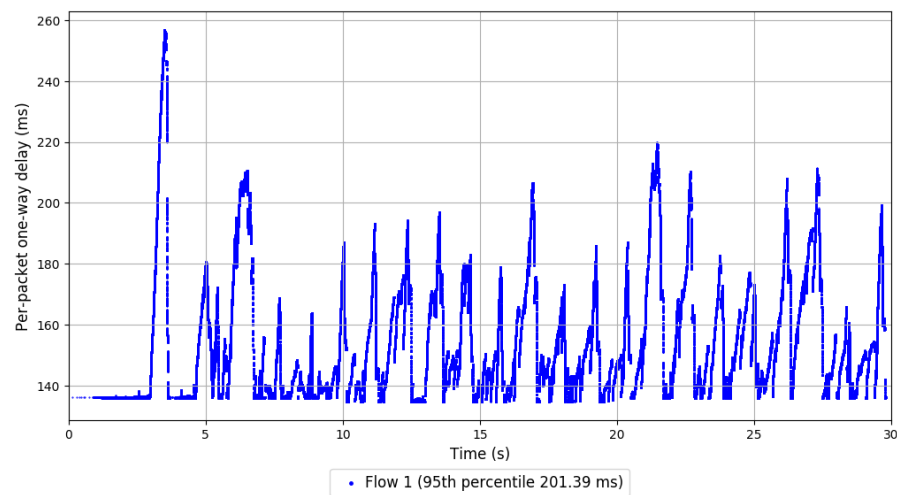
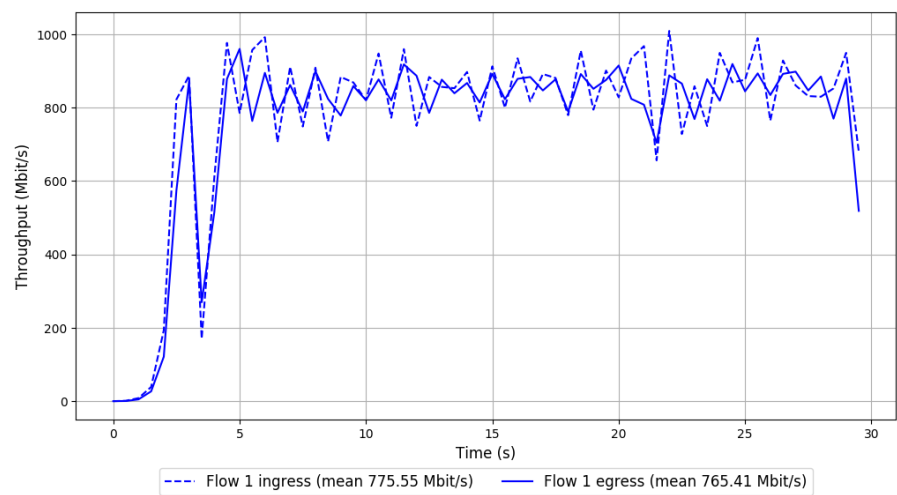
-- Flow 1:

Average throughput: 765.41 Mbit/s

95th percentile per-packet one-way delay: 201.392 ms

Loss rate: 2.19%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-04-17 20:01:49

End at: 2018-04-17 20:02:19

Below is generated by plot.py at 2018-04-18 00:17:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 729.49 Mbit/s

95th percentile per-packet one-way delay: 205.421 ms

Loss rate: 2.44%

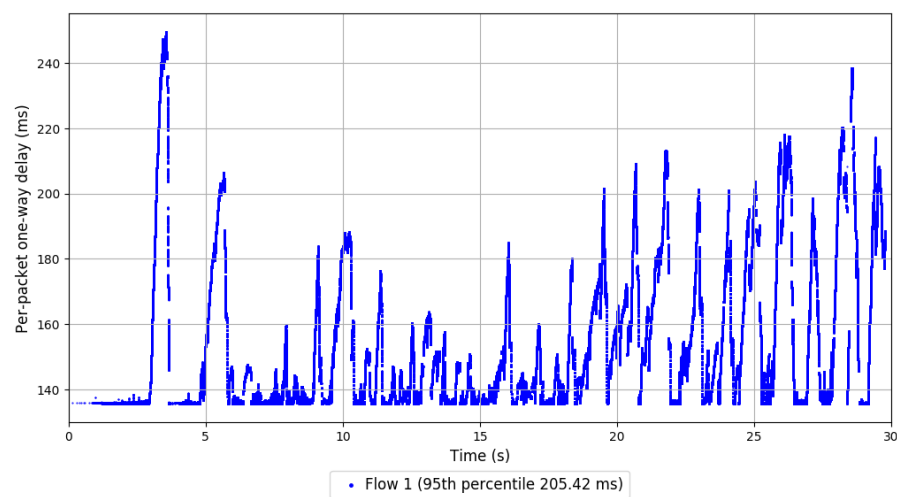
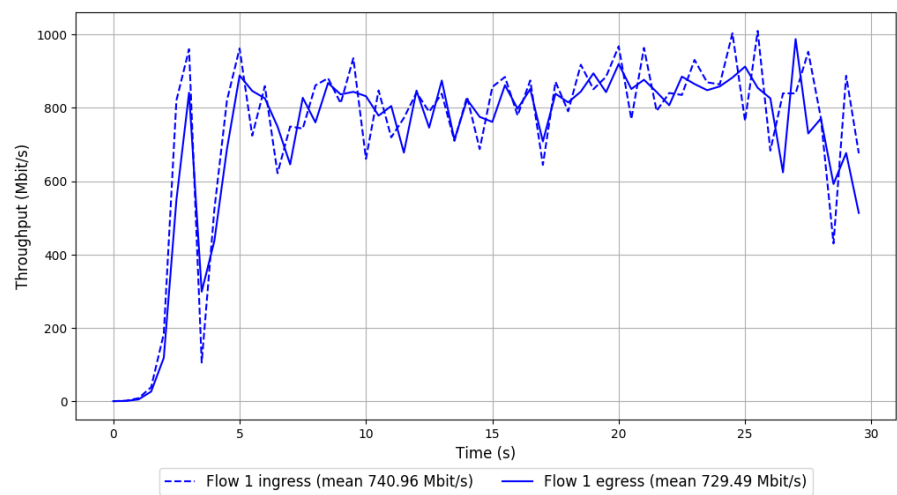
-- Flow 1:

Average throughput: 729.49 Mbit/s

95th percentile per-packet one-way delay: 205.421 ms

Loss rate: 2.44%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-04-17 20:16:18

End at: 2018-04-17 20:16:48

Below is generated by plot.py at 2018-04-18 00:18:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 758.68 Mbit/s

95th percentile per-packet one-way delay: 206.469 ms

Loss rate: 3.09%

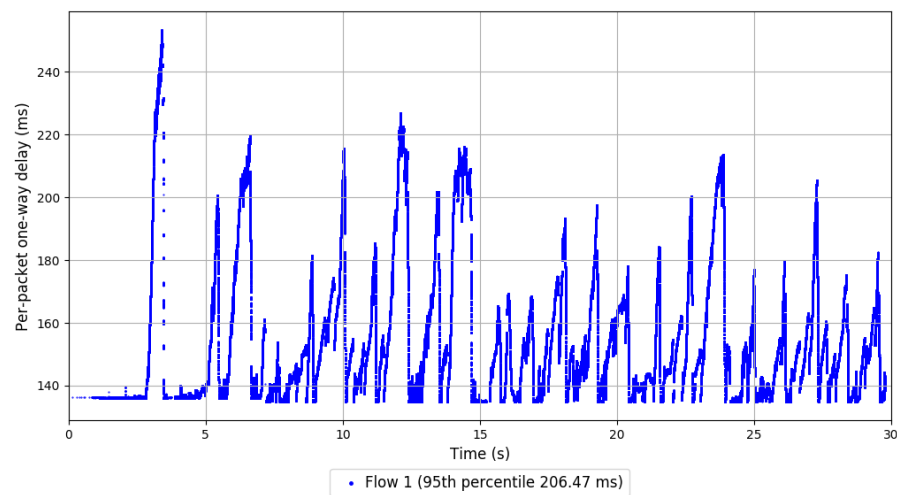
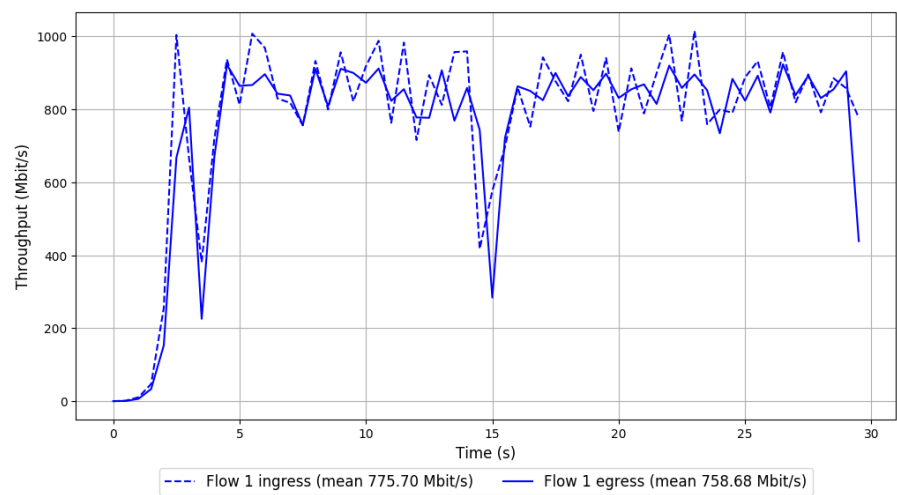
-- Flow 1:

Average throughput: 758.68 Mbit/s

95th percentile per-packet one-way delay: 206.469 ms

Loss rate: 3.09%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-17 20:30:47

End at: 2018-04-17 20:31:17

Below is generated by plot.py at 2018-04-18 00:18:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 750.81 Mbit/s

95th percentile per-packet one-way delay: 208.411 ms

Loss rate: 2.93%

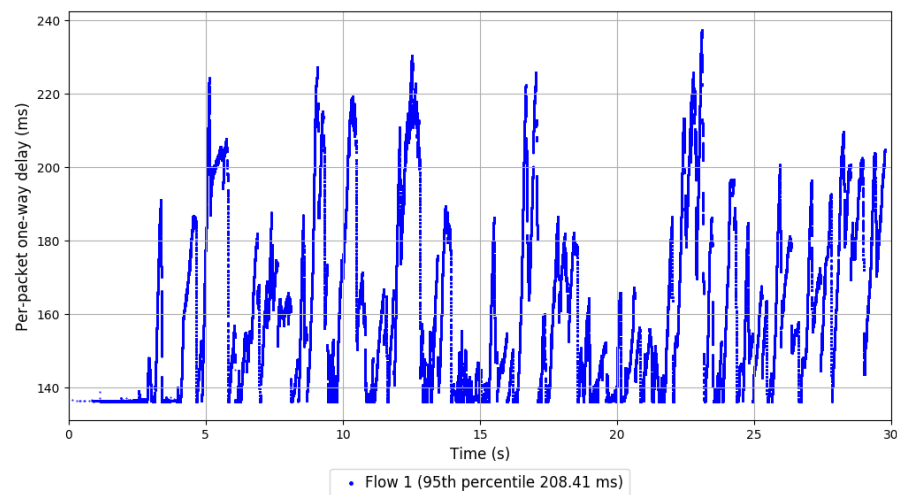
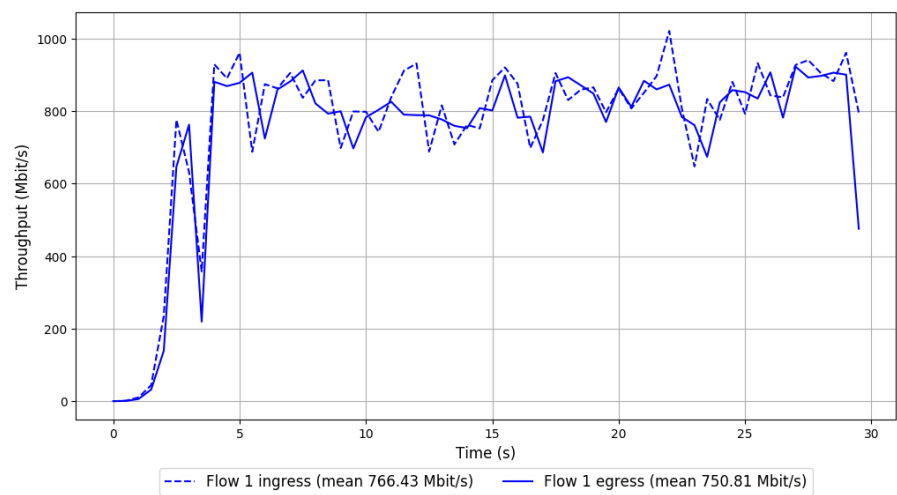
-- Flow 1:

Average throughput: 750.81 Mbit/s

95th percentile per-packet one-way delay: 208.411 ms

Loss rate: 2.93%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-17 20:45:13

End at: 2018-04-17 20:45:43

Below is generated by plot.py at 2018-04-18 00:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 762.87 Mbit/s

95th percentile per-packet one-way delay: 203.450 ms

Loss rate: 2.77%

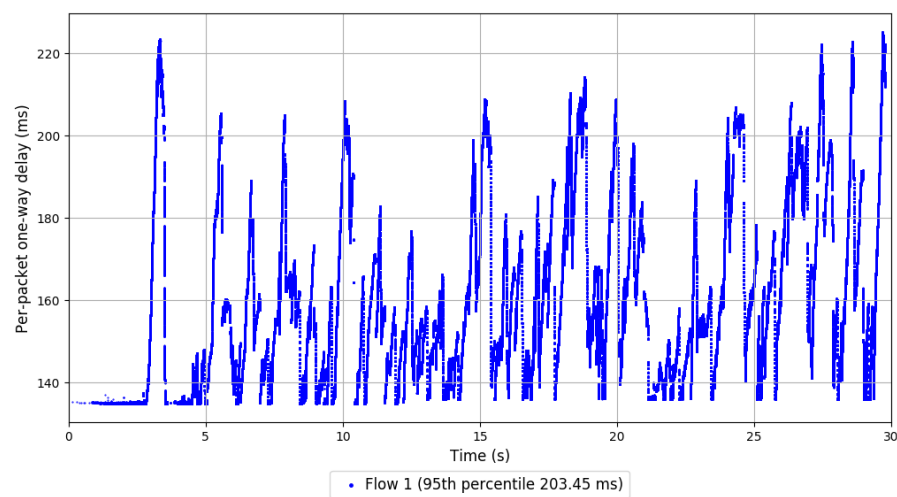
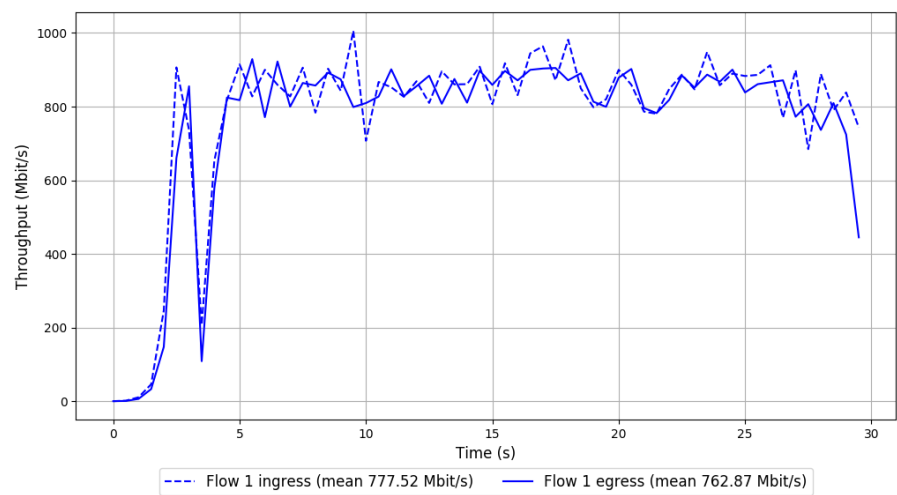
-- Flow 1:

Average throughput: 762.87 Mbit/s

95th percentile per-packet one-way delay: 203.450 ms

Loss rate: 2.77%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-17 20:59:47

End at: 2018-04-17 21:00:17

Below is generated by plot.py at 2018-04-18 00:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 743.36 Mbit/s

95th percentile per-packet one-way delay: 201.294 ms

Loss rate: 2.20%

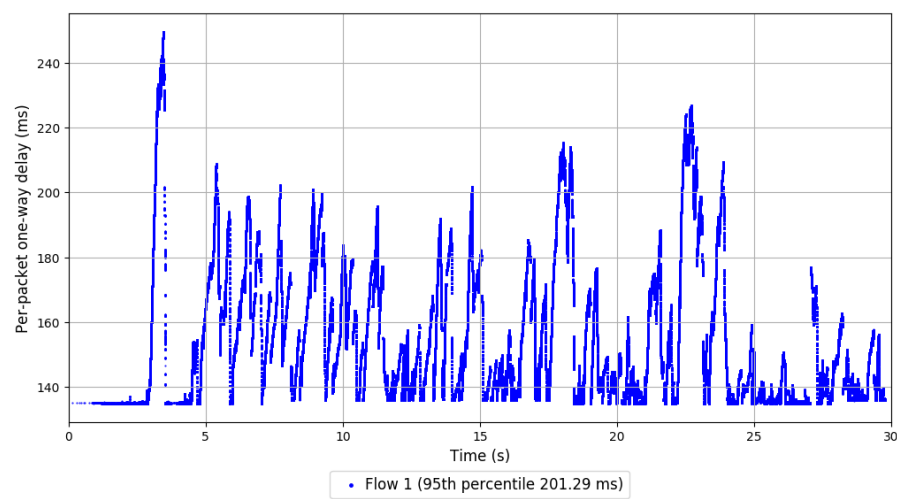
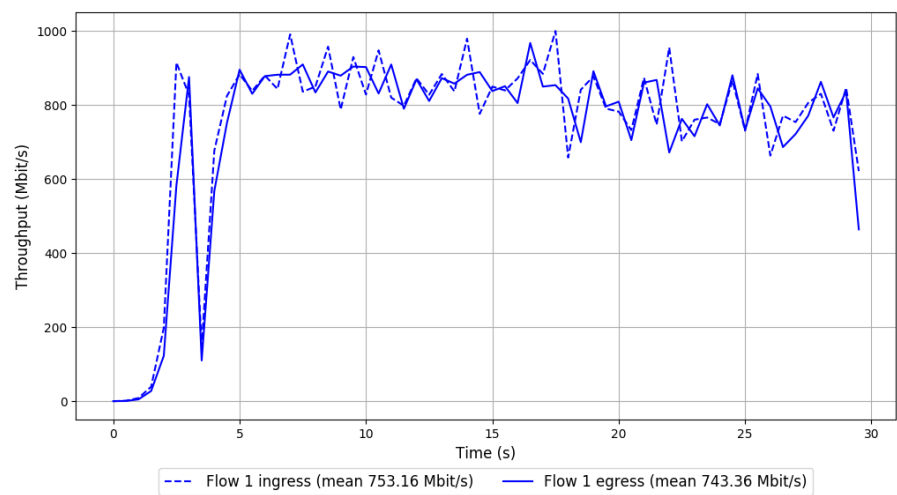
-- Flow 1:

Average throughput: 743.36 Mbit/s

95th percentile per-packet one-way delay: 201.294 ms

Loss rate: 2.20%

Run 10: Report of FillP — Data Link

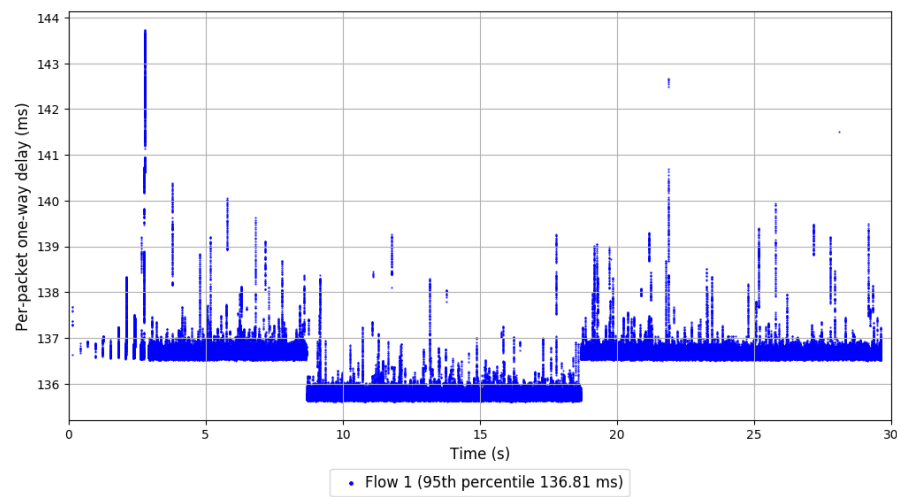
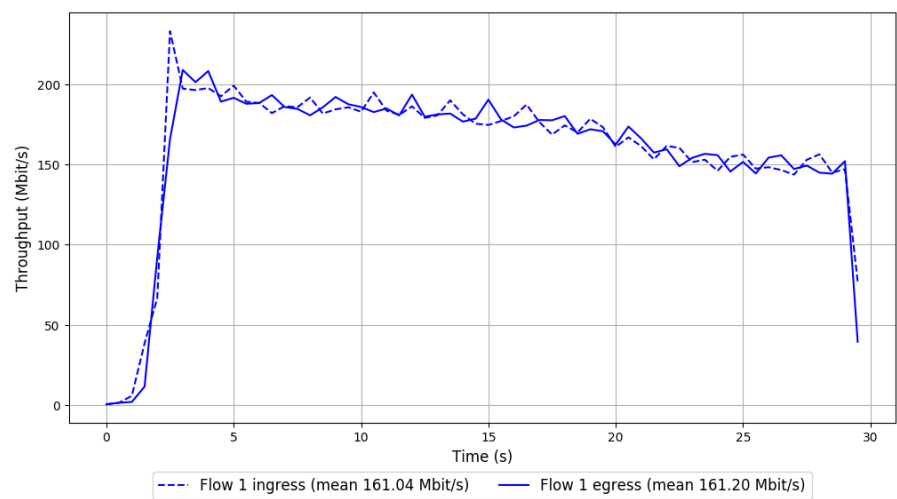


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-17 18:48:26
End at: 2018-04-17 18:48:56

# Below is generated by plot.py at 2018-04-18 00:29:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 161.20 Mbit/s
95th percentile per-packet one-way delay: 136.811 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 161.20 Mbit/s
95th percentile per-packet one-way delay: 136.811 ms
Loss rate: 0.82%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-04-17 19:02:55

End at: 2018-04-17 19:03:25

Below is generated by plot.py at 2018-04-18 00:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.15 Mbit/s

95th percentile per-packet one-way delay: 136.895 ms

Loss rate: 0.98%

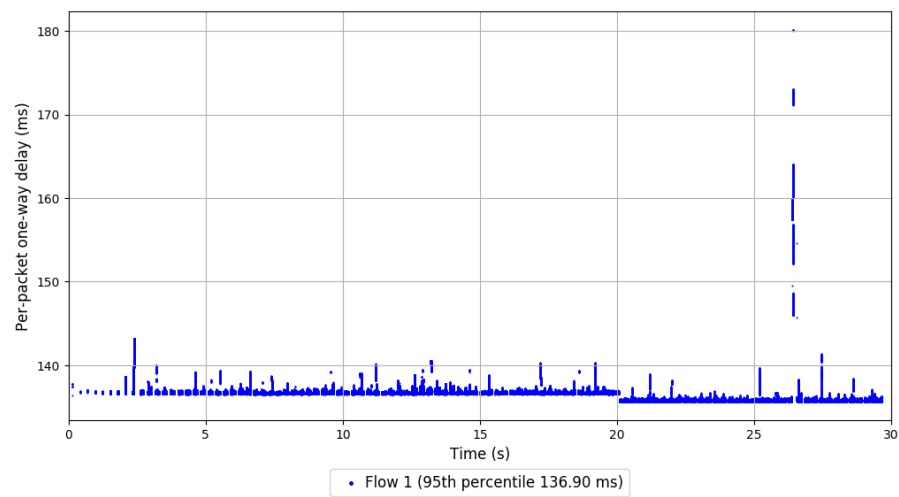
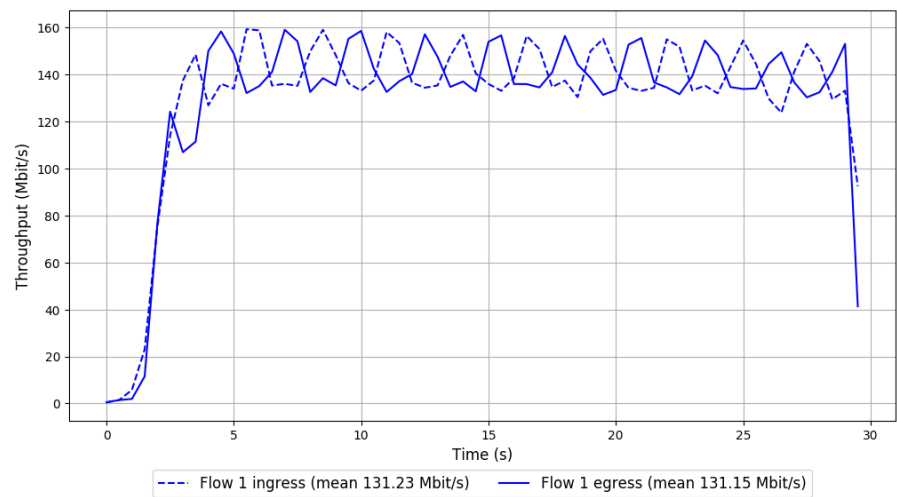
-- Flow 1:

Average throughput: 131.15 Mbit/s

95th percentile per-packet one-way delay: 136.895 ms

Loss rate: 0.98%

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

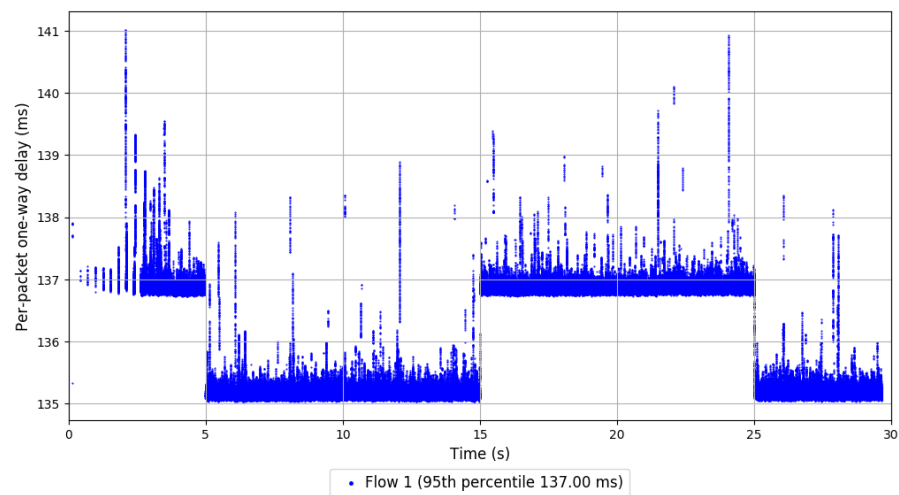
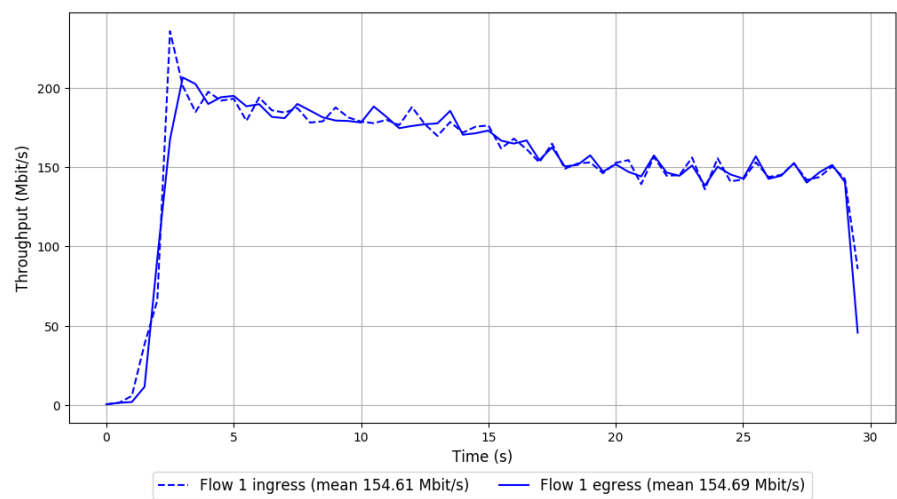


```
Run 3: Statistics of Indigo-1-32

Start at: 2018-04-17 19:17:00
End at: 2018-04-17 19:17:30

# Below is generated by plot.py at 2018-04-18 00:29:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 154.69 Mbit/s
95th percentile per-packet one-way delay: 137.003 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 154.69 Mbit/s
95th percentile per-packet one-way delay: 137.003 ms
Loss rate: 0.85%
```

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-17 19:31:12

End at: 2018-04-17 19:31:42

Below is generated by plot.py at 2018-04-18 00:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 164.38 Mbit/s

95th percentile per-packet one-way delay: 136.192 ms

Loss rate: 0.84%

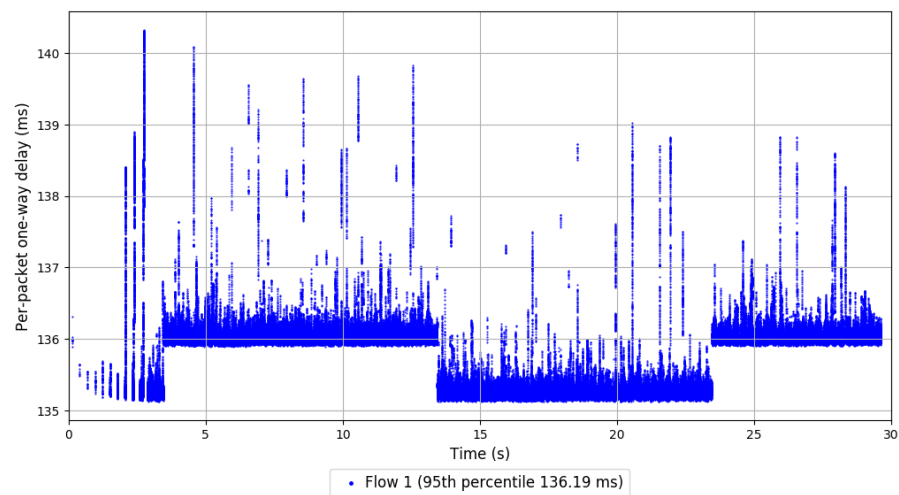
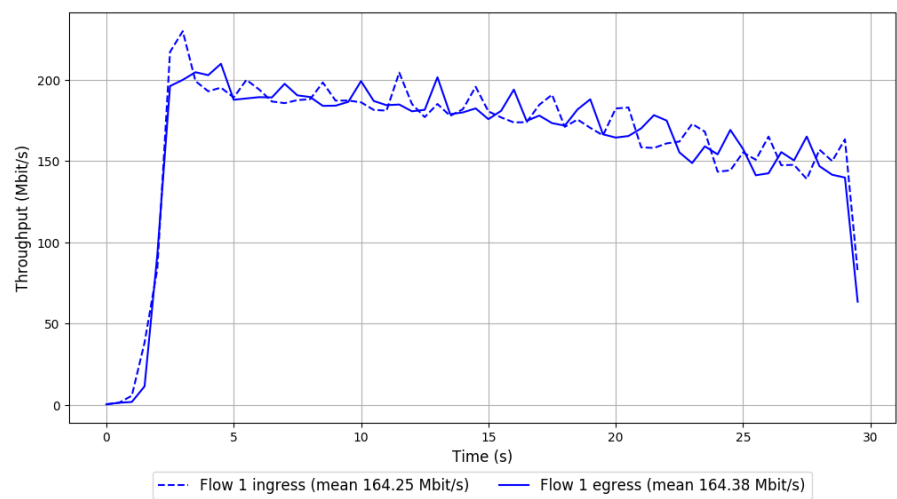
-- Flow 1:

Average throughput: 164.38 Mbit/s

95th percentile per-packet one-way delay: 136.192 ms

Loss rate: 0.84%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-17 19:45:22

End at: 2018-04-17 19:45:52

Below is generated by plot.py at 2018-04-18 00:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.62 Mbit/s

95th percentile per-packet one-way delay: 136.285 ms

Loss rate: 0.83%

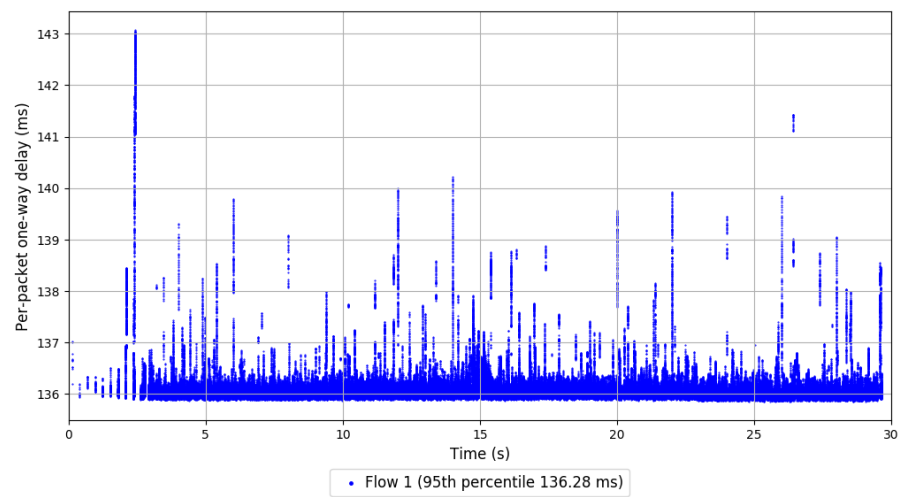
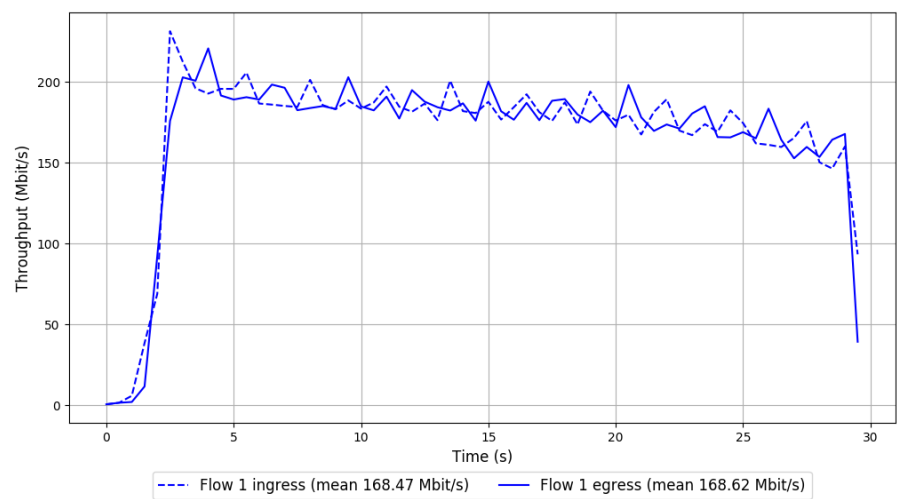
-- Flow 1:

Average throughput: 168.62 Mbit/s

95th percentile per-packet one-way delay: 136.285 ms

Loss rate: 0.83%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-17 19:59:52

End at: 2018-04-17 20:00:22

Below is generated by plot.py at 2018-04-18 00:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.58 Mbit/s

95th percentile per-packet one-way delay: 136.251 ms

Loss rate: 0.88%

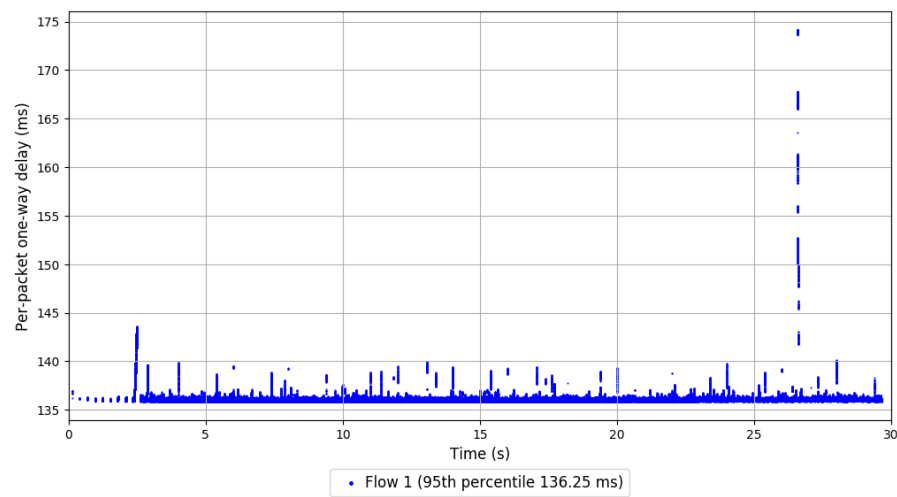
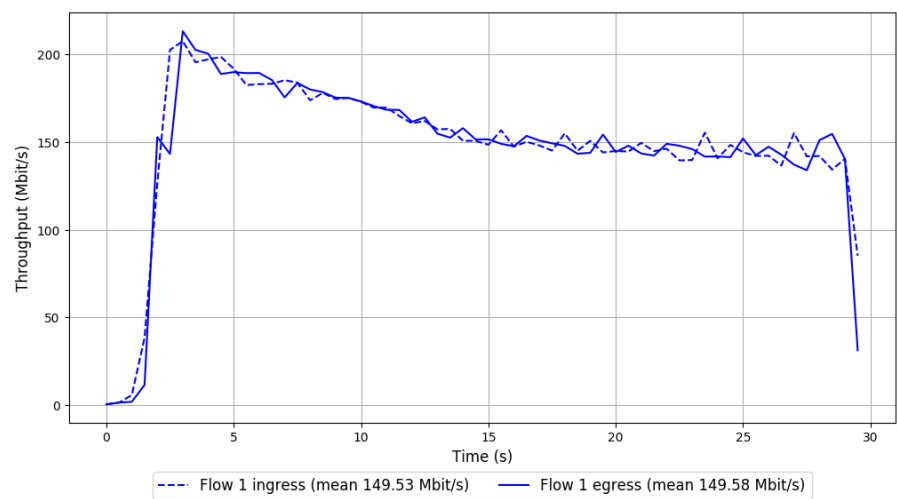
-- Flow 1:

Average throughput: 149.58 Mbit/s

95th percentile per-packet one-way delay: 136.251 ms

Loss rate: 0.88%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-17 20:14:22

End at: 2018-04-17 20:14:52

Below is generated by plot.py at 2018-04-18 00:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.08 Mbit/s

95th percentile per-packet one-way delay: 136.053 ms

Loss rate: 0.83%

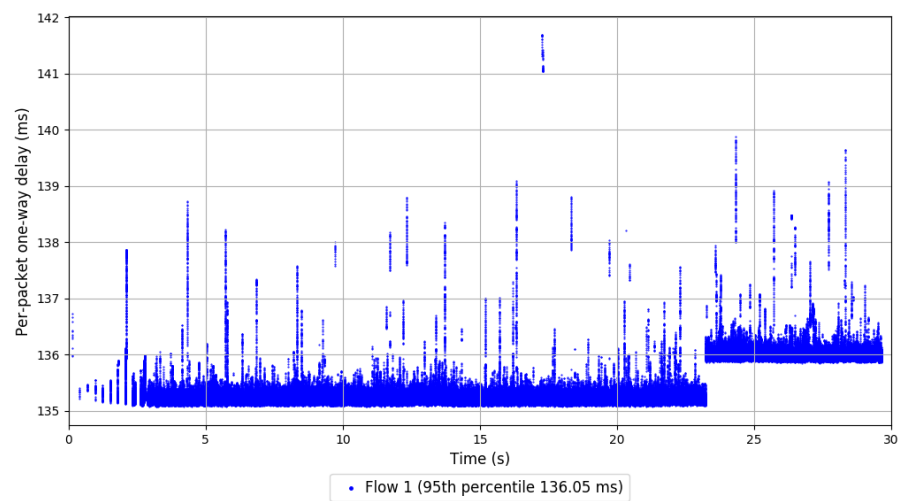
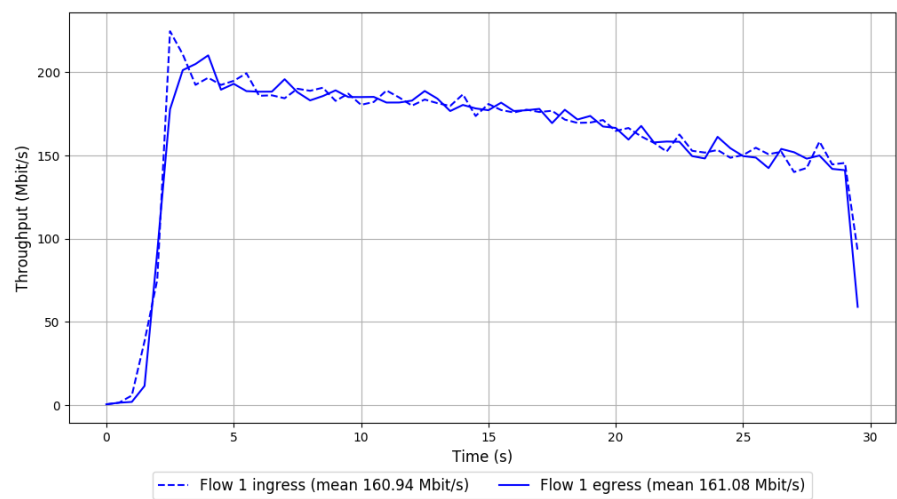
-- Flow 1:

Average throughput: 161.08 Mbit/s

95th percentile per-packet one-way delay: 136.053 ms

Loss rate: 0.83%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-17 20:28:53

End at: 2018-04-17 20:29:23

Below is generated by plot.py at 2018-04-18 00:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.96 Mbit/s

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

Loss rate: 0.83%

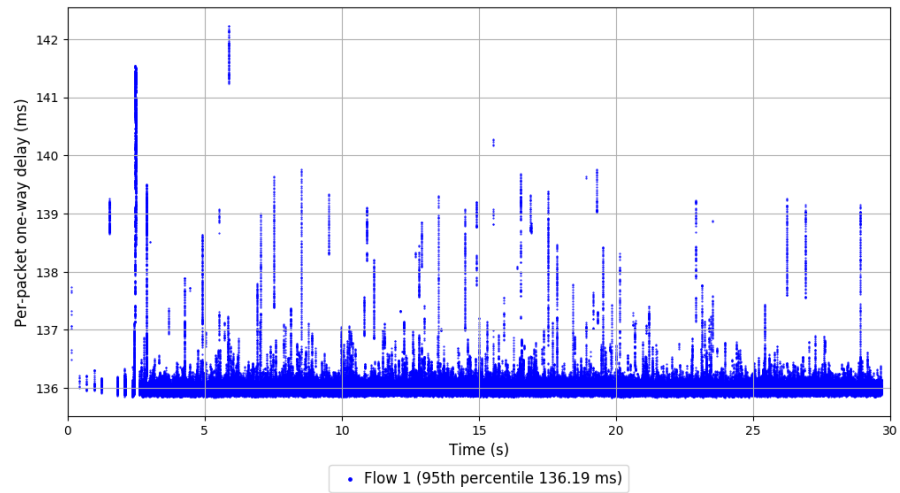
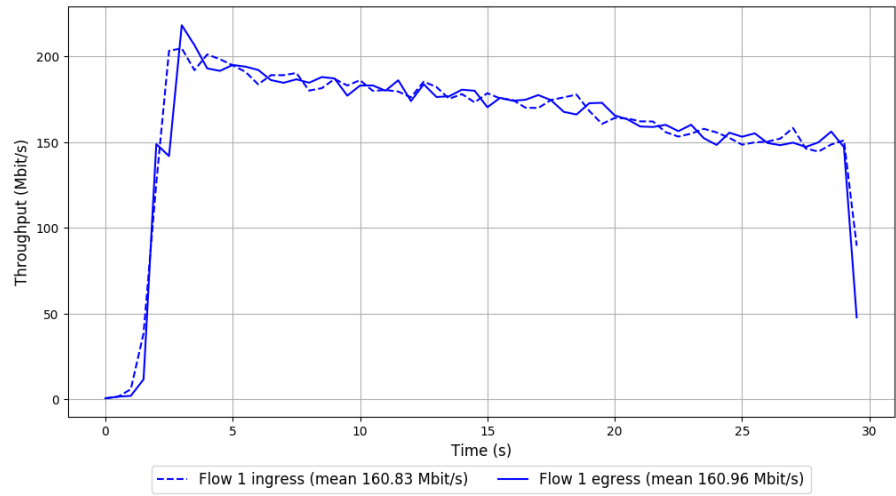
-- Flow 1:

Average throughput: 160.96 Mbit/s

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

Loss rate: 0.83%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-17 20:43:18

End at: 2018-04-17 20:43:48

Below is generated by plot.py at 2018-04-18 00:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.95 Mbit/s

95th percentile per-packet one-way delay: 136.110 ms

Loss rate: 0.81%

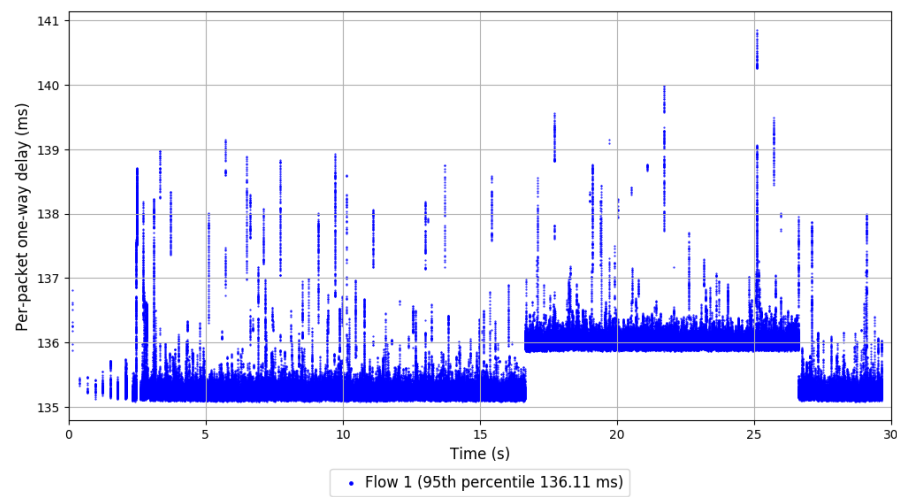
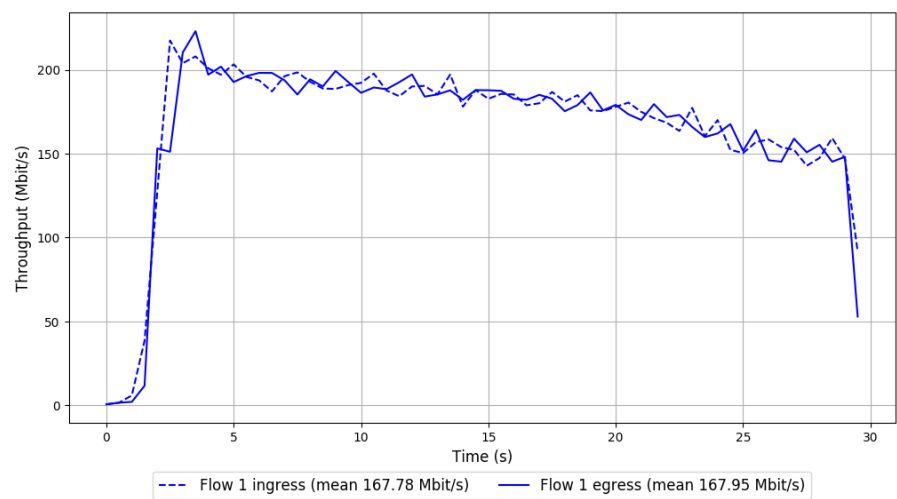
-- Flow 1:

Average throughput: 167.95 Mbit/s

95th percentile per-packet one-way delay: 136.110 ms

Loss rate: 0.81%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-17 20:57:49

End at: 2018-04-17 20:58:19

Below is generated by plot.py at 2018-04-18 00:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.15 Mbit/s

95th percentile per-packet one-way delay: 135.971 ms

Loss rate: 0.84%

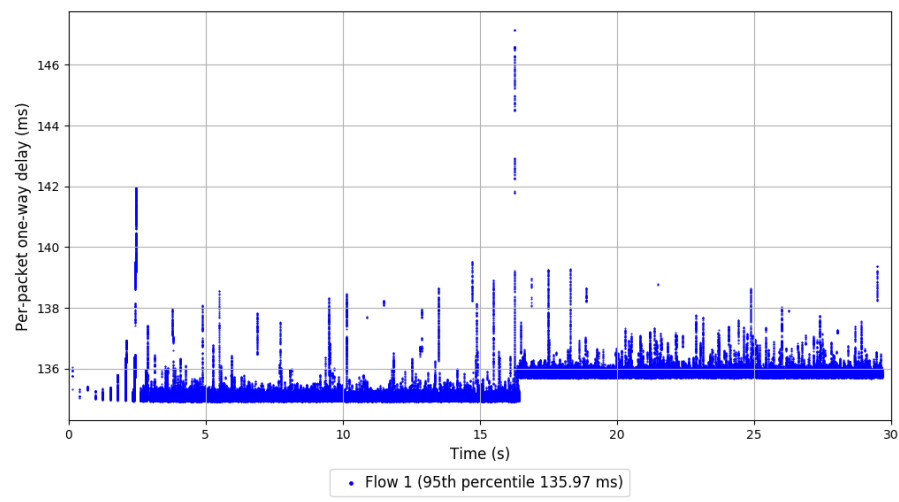
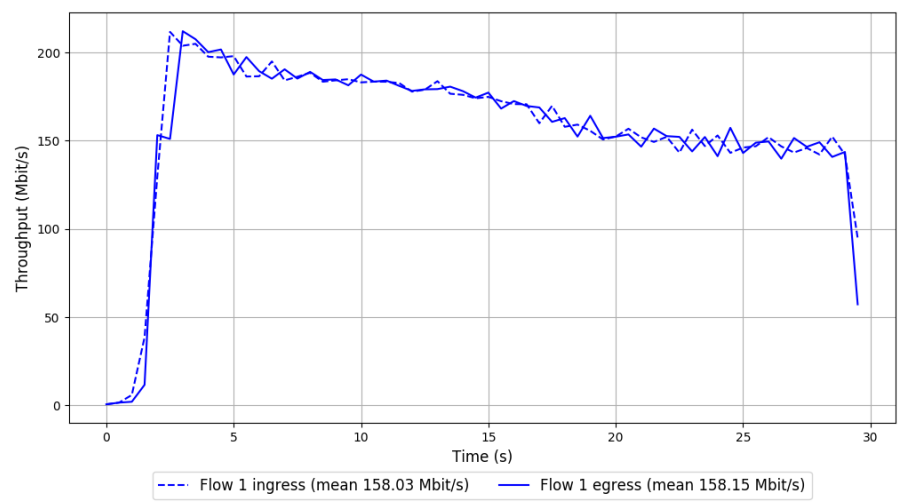
-- Flow 1:

Average throughput: 158.15 Mbit/s

95th percentile per-packet one-way delay: 135.971 ms

Loss rate: 0.84%

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



Run 1: Statistics of PCC-Vivace

Start at: 2018-04-17 18:49:21

End at: 2018-04-17 18:49:51

Below is generated by plot.py at 2018-04-18 00:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.24 Mbit/s

95th percentile per-packet one-way delay: 136.368 ms

Loss rate: 1.16%

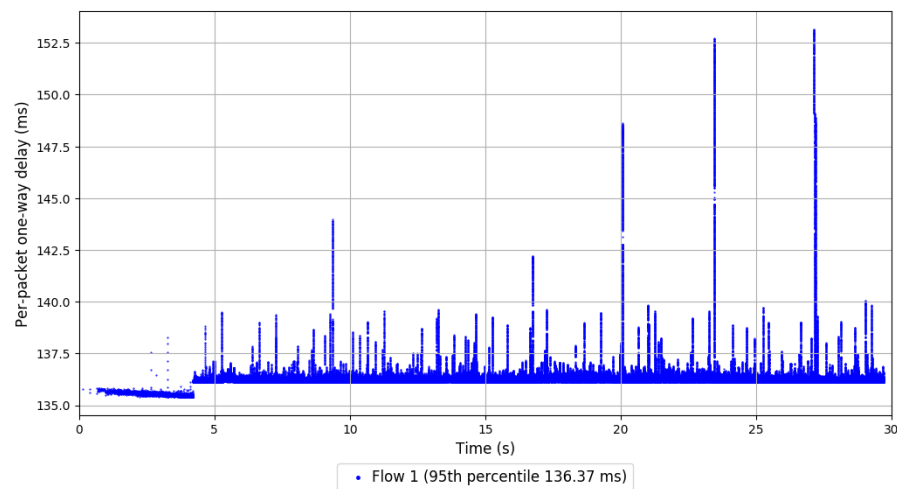
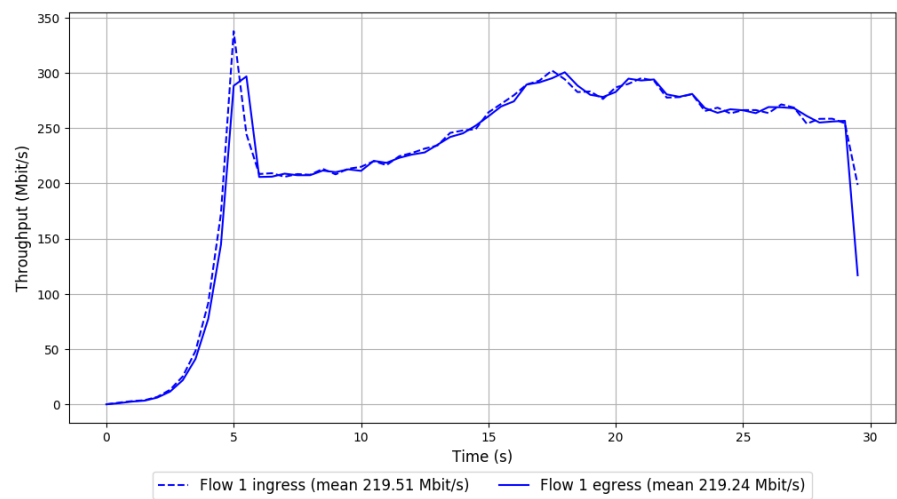
-- Flow 1:

Average throughput: 219.24 Mbit/s

95th percentile per-packet one-way delay: 136.368 ms

Loss rate: 1.16%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-04-17 19:03:47

End at: 2018-04-17 19:04:17

Below is generated by plot.py at 2018-04-18 00:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.09 Mbit/s

95th percentile per-packet one-way delay: 135.105 ms

Loss rate: 1.18%

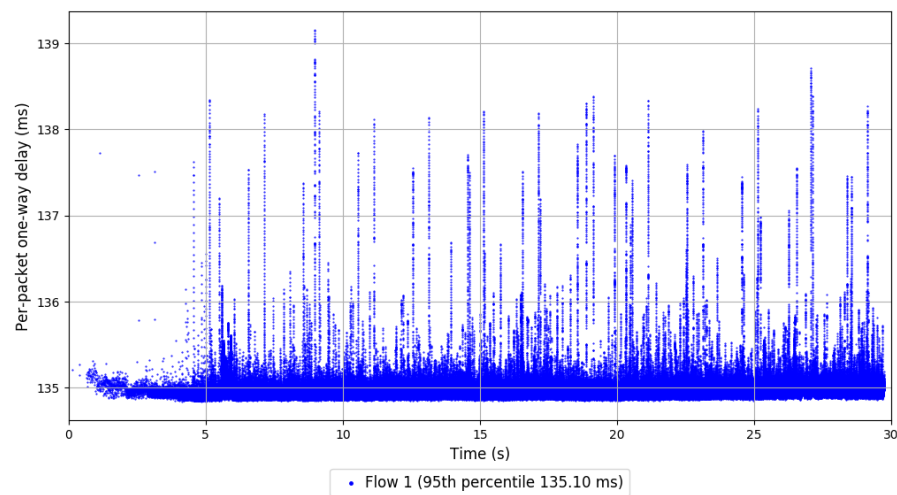
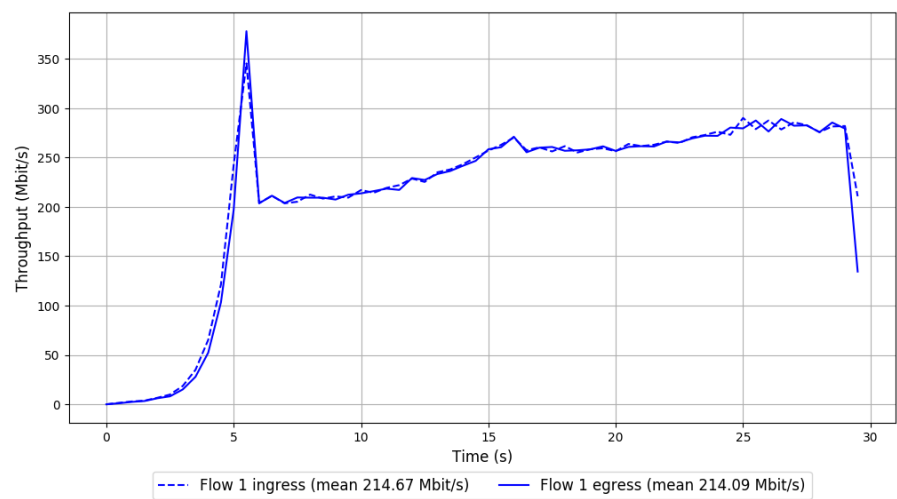
-- Flow 1:

Average throughput: 214.09 Mbit/s

95th percentile per-packet one-way delay: 135.105 ms

Loss rate: 1.18%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-04-17 19:17:54

End at: 2018-04-17 19:18:24

Below is generated by plot.py at 2018-04-18 00:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 296.97 Mbit/s

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

Loss rate: 0.88%

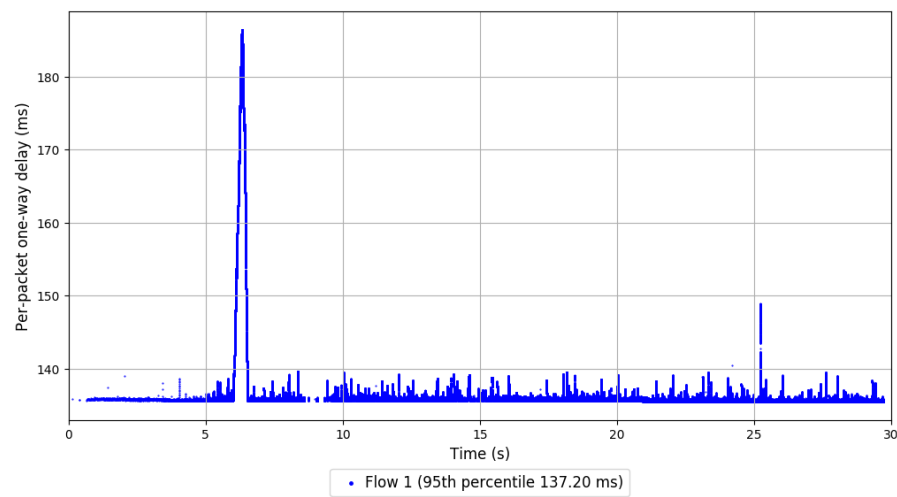
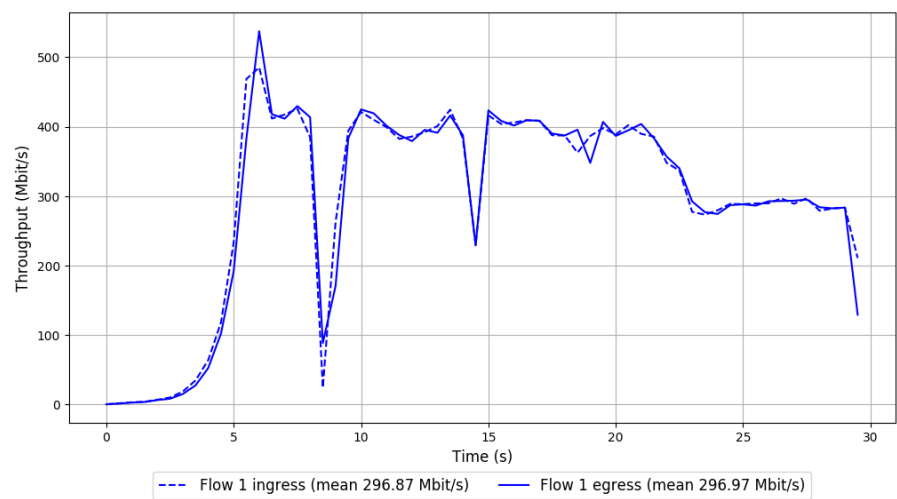
-- Flow 1:

Average throughput: 296.97 Mbit/s

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

Loss rate: 0.88%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-04-17 19:32:06

End at: 2018-04-17 19:32:36

Below is generated by plot.py at 2018-04-18 00:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 259.71 Mbit/s

95th percentile per-packet one-way delay: 136.012 ms

Loss rate: 1.78%

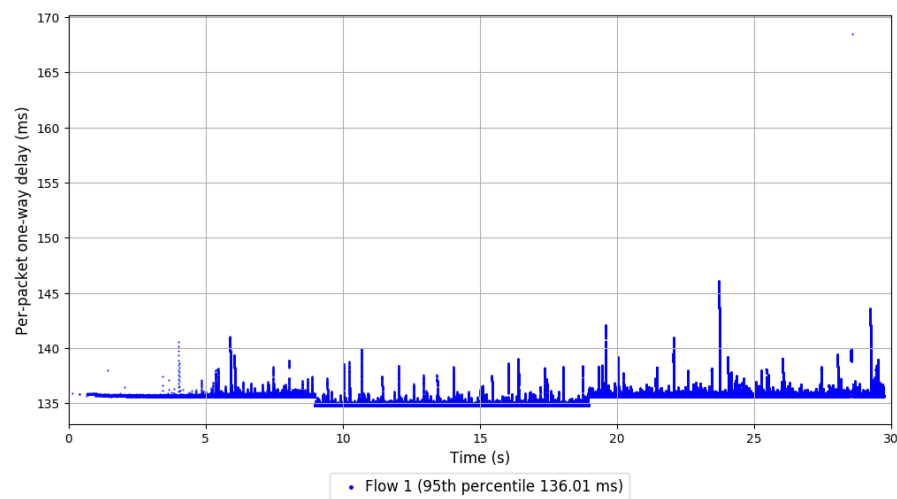
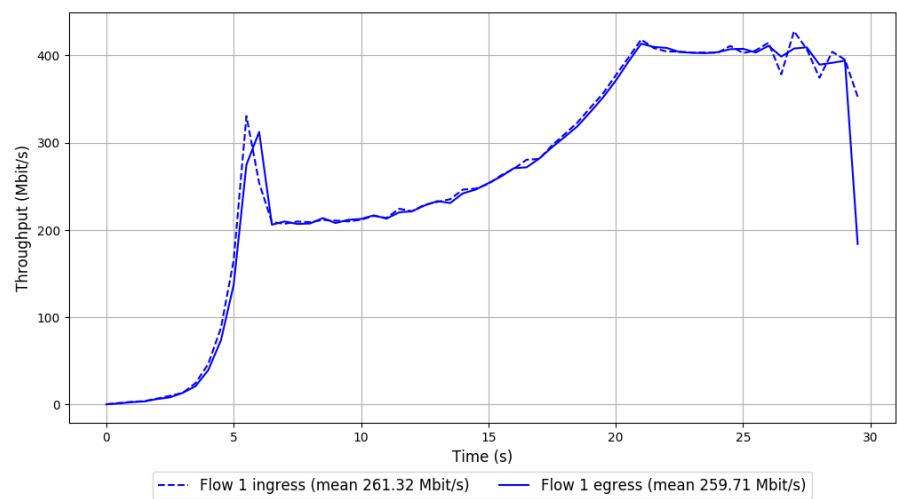
-- Flow 1:

Average throughput: 259.71 Mbit/s

95th percentile per-packet one-way delay: 136.012 ms

Loss rate: 1.78%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-04-17 19:46:17

End at: 2018-04-17 19:46:47

Below is generated by plot.py at 2018-04-18 00:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 329.81 Mbit/s

95th percentile per-packet one-way delay: 139.118 ms

Loss rate: 1.27%

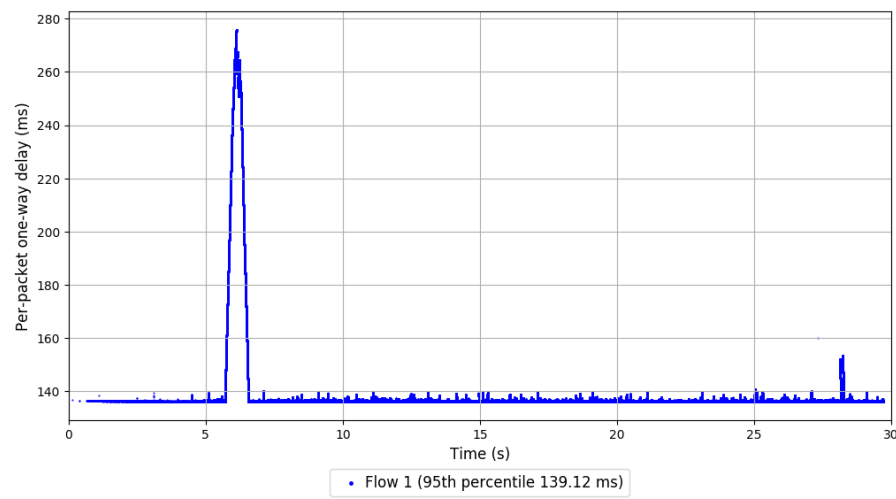
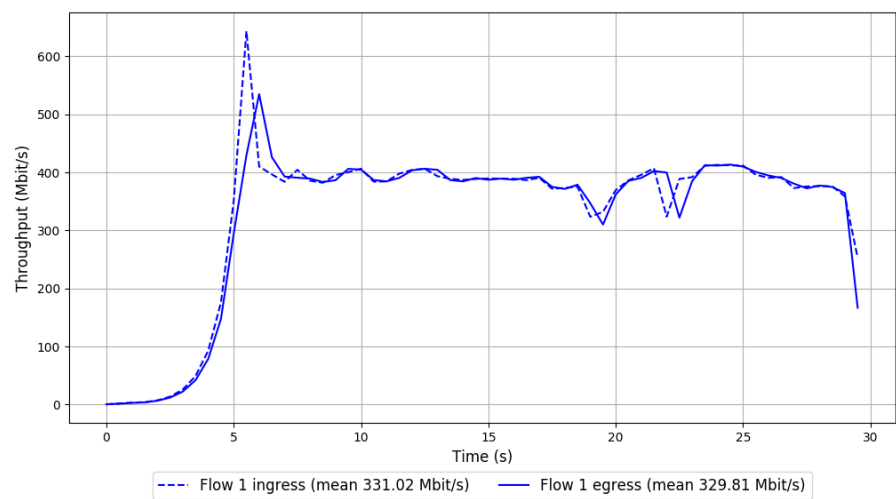
-- Flow 1:

Average throughput: 329.81 Mbit/s

95th percentile per-packet one-way delay: 139.118 ms

Loss rate: 1.27%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-04-17 20:00:46

End at: 2018-04-17 20:01:16

Below is generated by plot.py at 2018-04-18 00:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 277.27 Mbit/s

95th percentile per-packet one-way delay: 137.773 ms

Loss rate: 1.08%

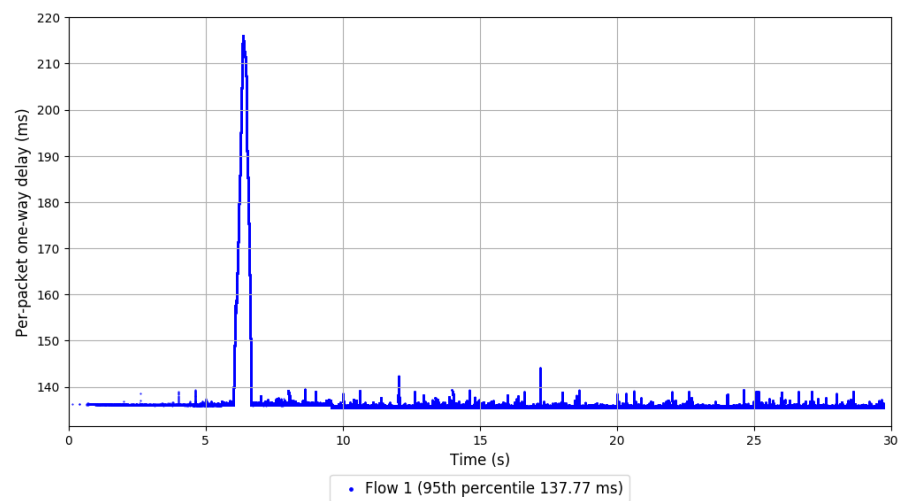
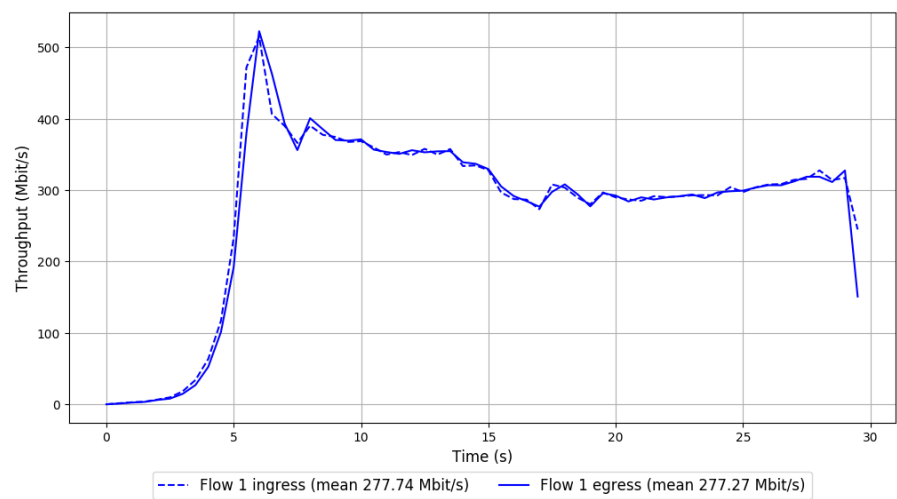
-- Flow 1:

Average throughput: 277.27 Mbit/s

95th percentile per-packet one-way delay: 137.773 ms

Loss rate: 1.08%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-04-17 20:15:16

End at: 2018-04-17 20:15:46

Below is generated by plot.py at 2018-04-18 00:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 252.23 Mbit/s

95th percentile per-packet one-way delay: 136.629 ms

Loss rate: 1.69%

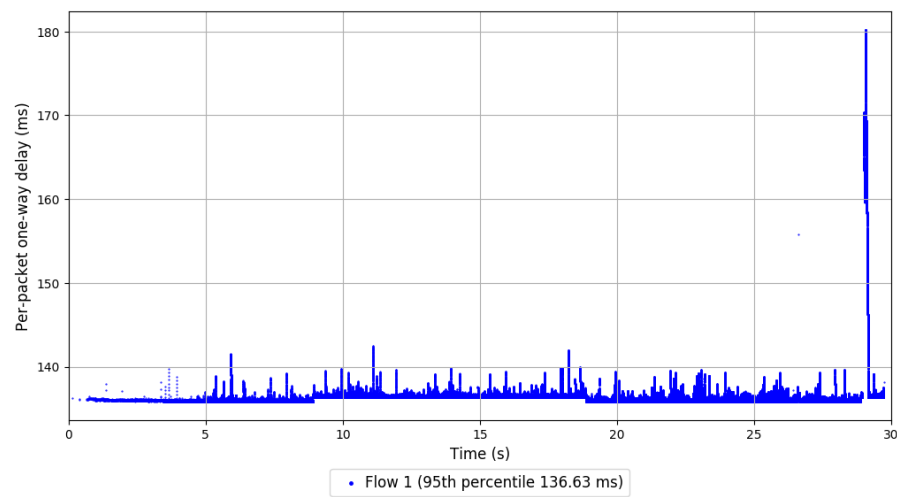
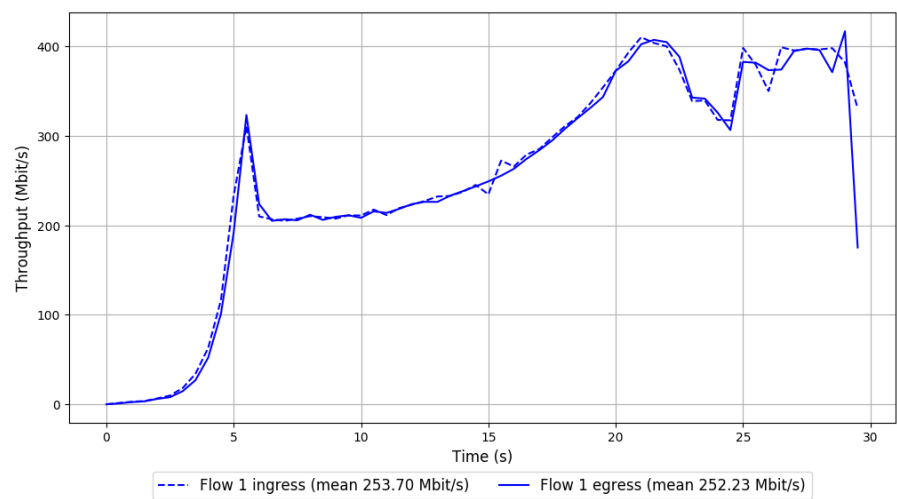
-- Flow 1:

Average throughput: 252.23 Mbit/s

95th percentile per-packet one-way delay: 136.629 ms

Loss rate: 1.69%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-04-17 20:29:47

End at: 2018-04-17 20:30:17

Below is generated by plot.py at 2018-04-18 00:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.26 Mbit/s

95th percentile per-packet one-way delay: 136.371 ms

Loss rate: 1.14%

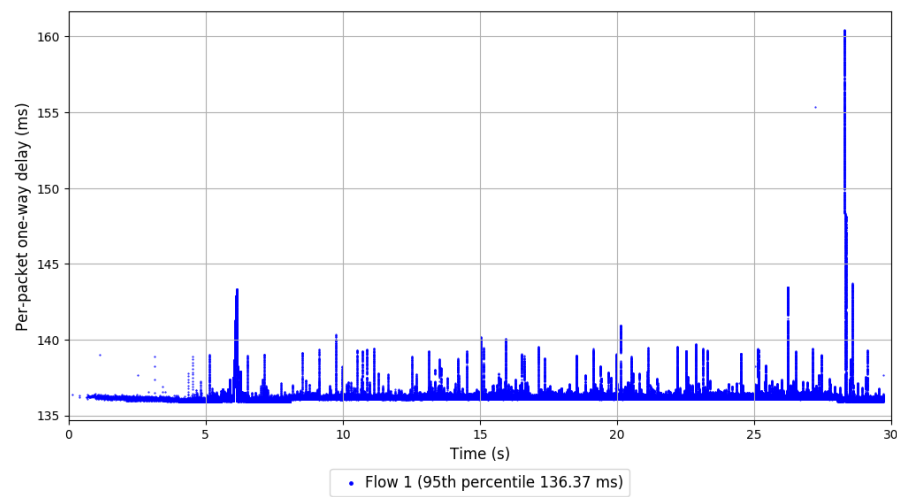
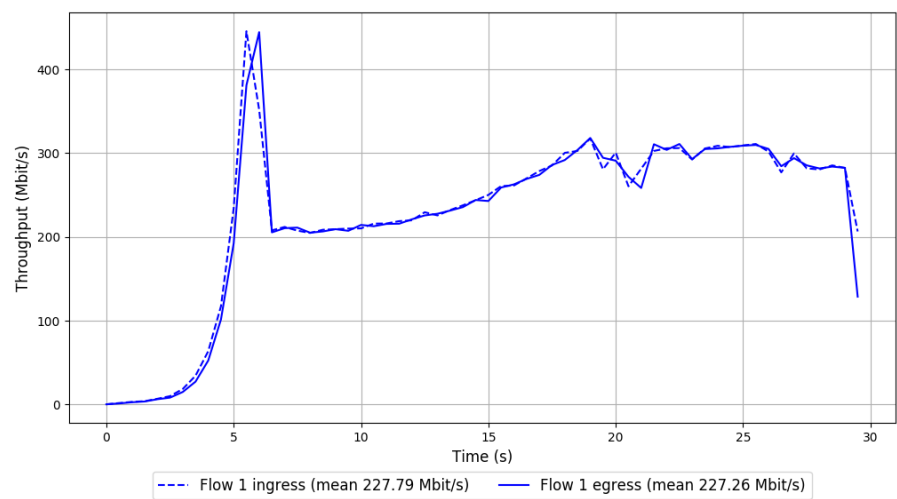
-- Flow 1:

Average throughput: 227.26 Mbit/s

95th percentile per-packet one-way delay: 136.371 ms

Loss rate: 1.14%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-04-17 20:44:13

End at: 2018-04-17 20:44:43

Below is generated by plot.py at 2018-04-18 00:29:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.14 Mbit/s

95th percentile per-packet one-way delay: 136.238 ms

Loss rate: 1.19%

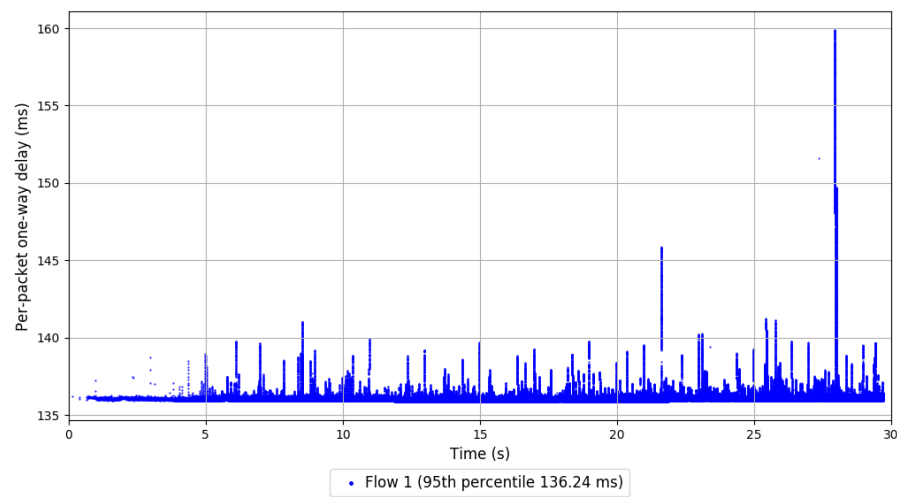
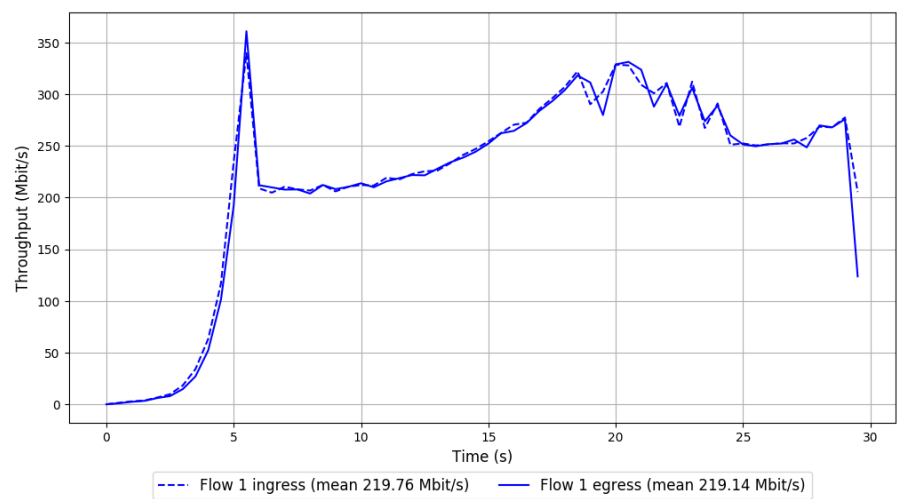
-- Flow 1:

Average throughput: 219.14 Mbit/s

95th percentile per-packet one-way delay: 136.238 ms

Loss rate: 1.19%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-04-17 20:58:43

End at: 2018-04-17 20:59:13

Below is generated by plot.py at 2018-04-18 00:29:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 290.08 Mbit/s

95th percentile per-packet one-way delay: 136.614 ms

Loss rate: 0.91%

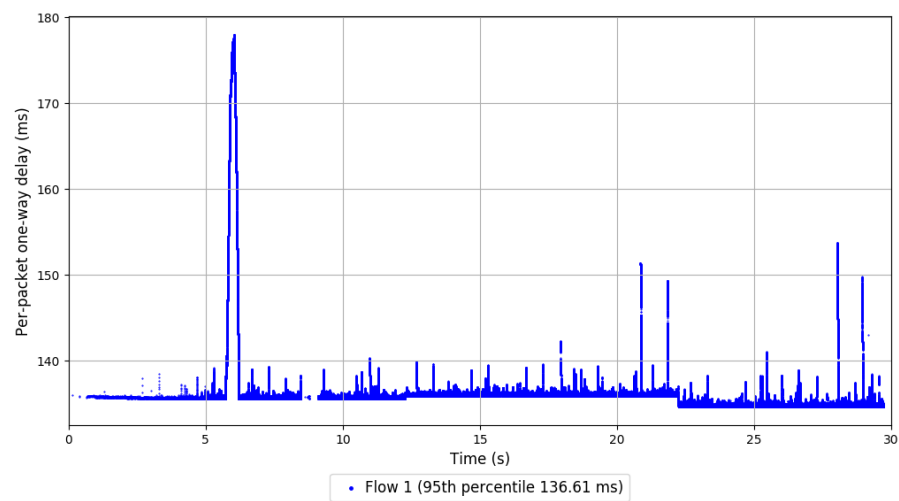
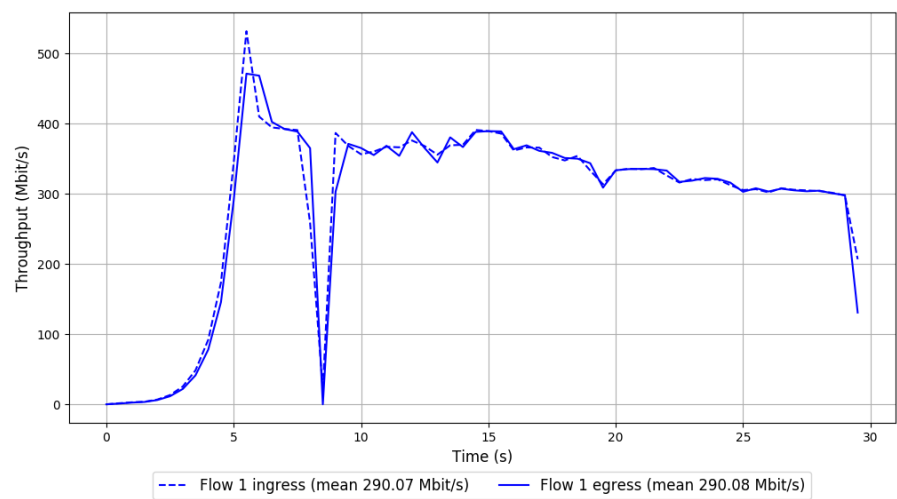
-- Flow 1:

Average throughput: 290.08 Mbit/s

95th percentile per-packet one-way delay: 136.614 ms

Loss rate: 0.91%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-17 18:52:19

End at: 2018-04-17 18:52:49

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-04-17 19:06:46

End at: 2018-04-17 19:07:16

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-04-17 19:20:59

End at: 2018-04-17 19:21:29

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-04-17 19:35:08

End at: 2018-04-17 19:35:38

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-04-17 19:49:25

End at: 2018-04-17 19:49:55

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-17 20:03:47

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

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-04-17 20:18:18

End at: 2018-04-17 20:18:48

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-17 20:32:46

End at: 2018-04-17 20:33:16

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-17 20:47:12

End at: 2018-04-17 20:47:42

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-17 21:01:45

End at: 2018-04-17 21:02:15

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing