

Pantheon Report

Generated at 2018-04-25 01:22:04 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

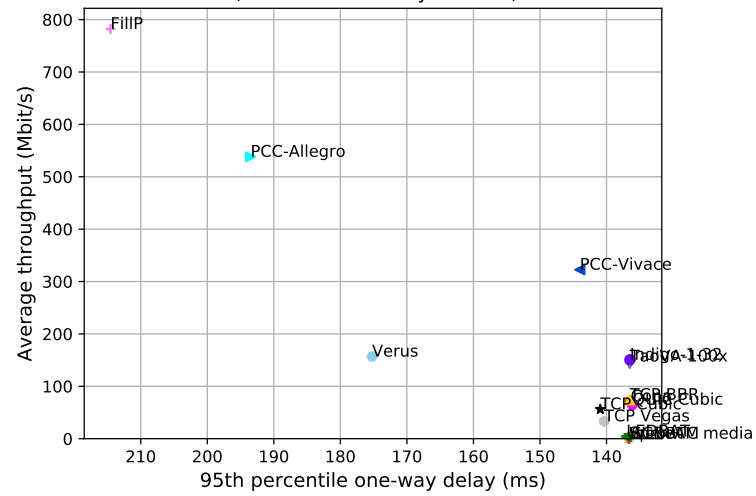
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

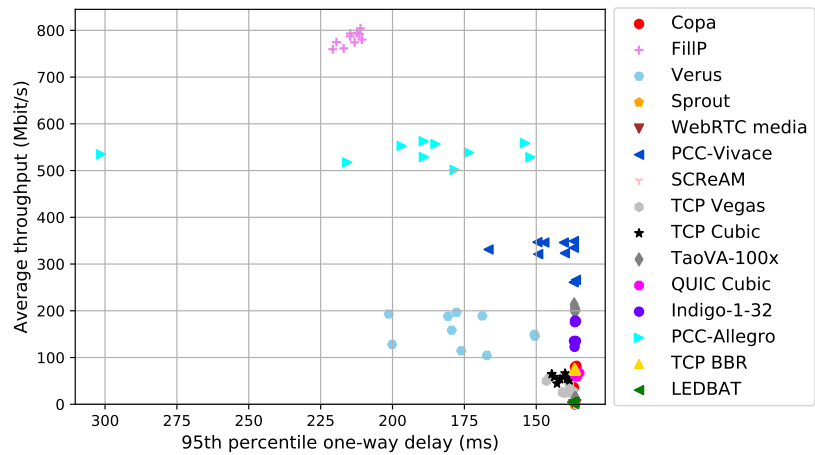
Git summary:

```
branch: master @ 114e807ac1bad7b85168ceb1f8a969063ee6c12c
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 @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/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 Sydney Ethernet to GCE London Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	73.99	136.52	0.00
TCP Cubic	10	56.10	140.94	0.00
LEDBAT	10	4.25	137.04	0.00
PCC-Allegro	10	538.11	193.50	0.95
QUIC Cubic	9	64.86	136.13	0.00
SCReAM	10	0.22	136.26	0.00
WebRTC media	10	0.06	136.59	0.00
Sprout	10	0.40	136.62	0.00
TaoVA-100x	10	147.33	136.52	0.00
TCP Vegas	10	33.17	140.36	0.00
Verus	10	156.79	175.24	0.05
Copa	10	71.06	136.38	0.00
FillP	10	782.14	214.55	3.93
Indigo-1-32	10	150.56	136.49	0.00
PCC-Vivace	10	322.53	144.03	0.06
PCC-Expr	0	N/A	N/A	N/A

Run 1: Statistics of TCP BBR

Start at: 2018-04-24 21:15:17

End at: 2018-04-24 21:15:47

Below is generated by plot.py at 2018-04-25 00:28:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.67 Mbit/s

95th percentile per-packet one-way delay: 136.734 ms

Loss rate: 0.00%

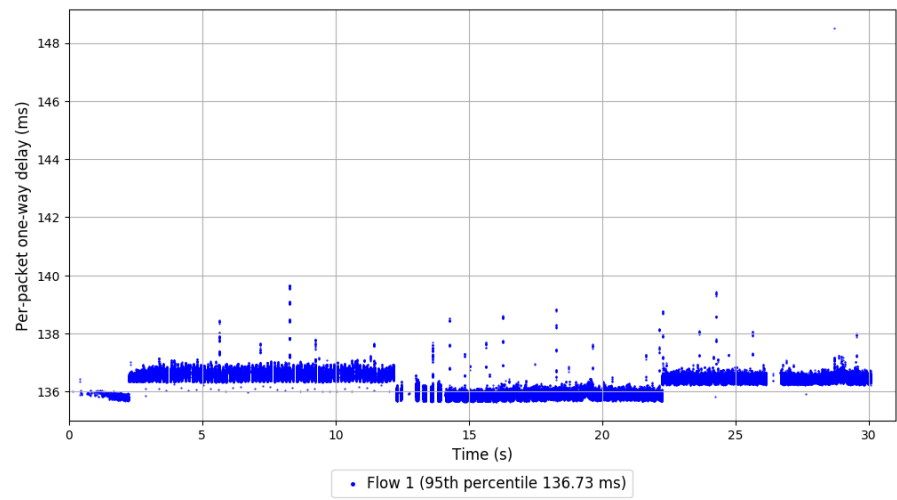
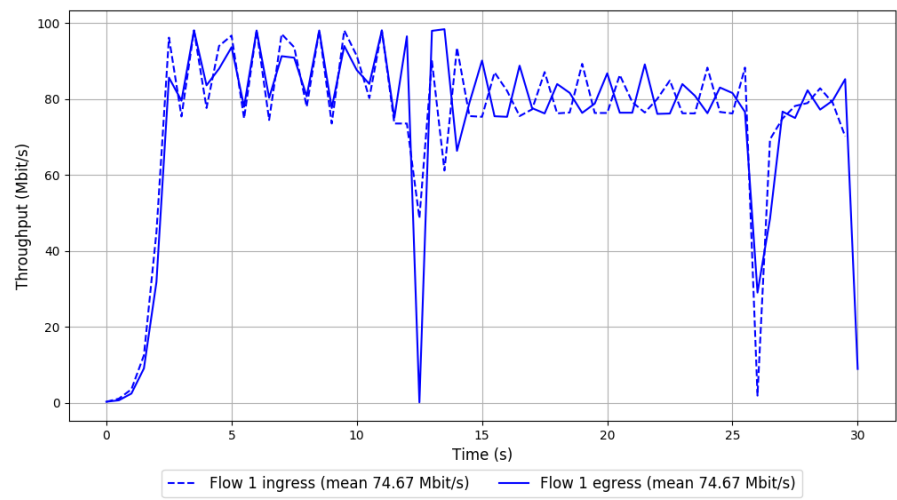
-- Flow 1:

Average throughput: 74.67 Mbit/s

95th percentile per-packet one-way delay: 136.734 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-24 21:29:56

End at: 2018-04-24 21:30:26

Below is generated by plot.py at 2018-04-25 00:28:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.38 Mbit/s

95th percentile per-packet one-way delay: 136.684 ms

Loss rate: 0.00%

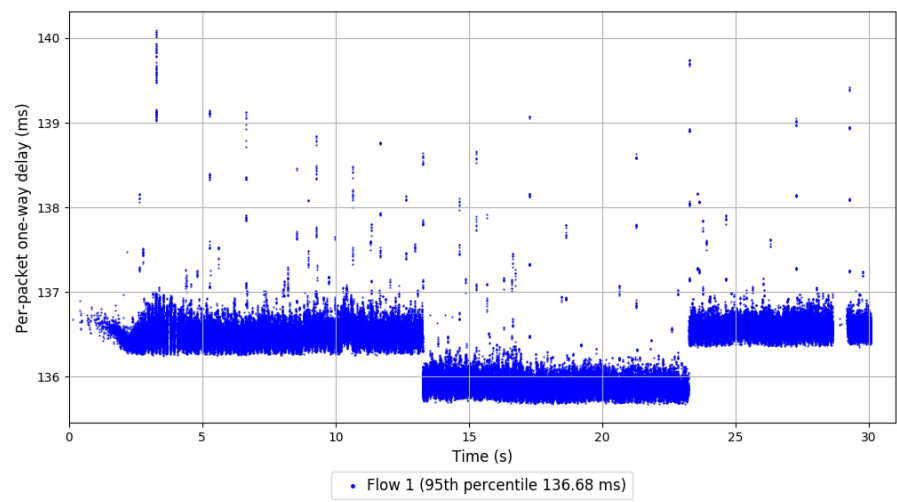
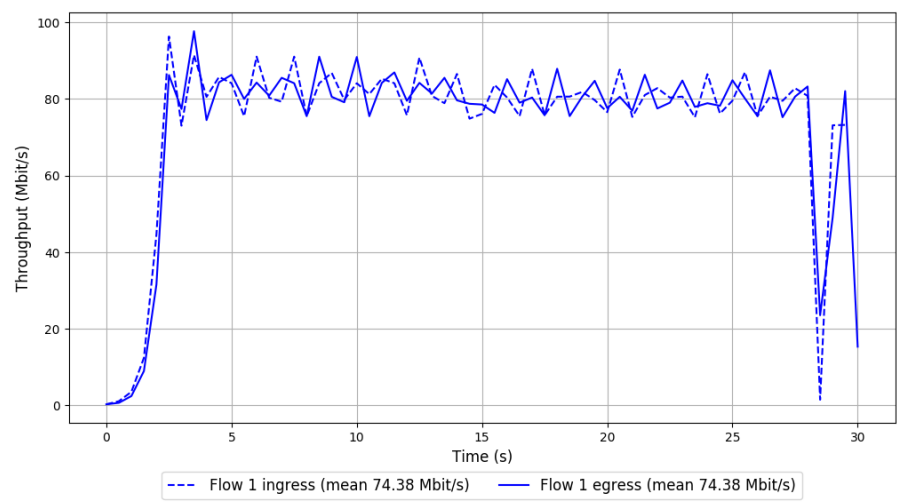
-- Flow 1:

Average throughput: 74.38 Mbit/s

95th percentile per-packet one-way delay: 136.684 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-24 21:44:08

End at: 2018-04-24 21:44:38

Below is generated by plot.py at 2018-04-25 00:28:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.03 Mbit/s

95th percentile per-packet one-way delay: 136.618 ms

Loss rate: 0.00%

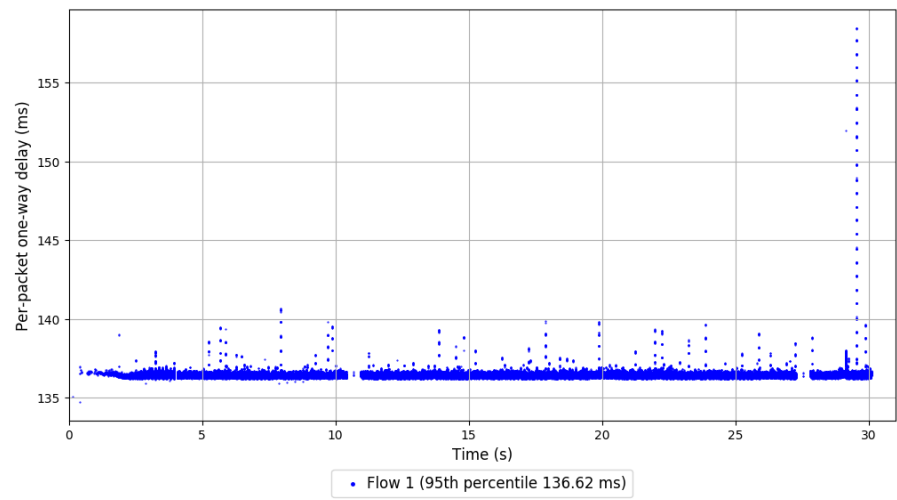
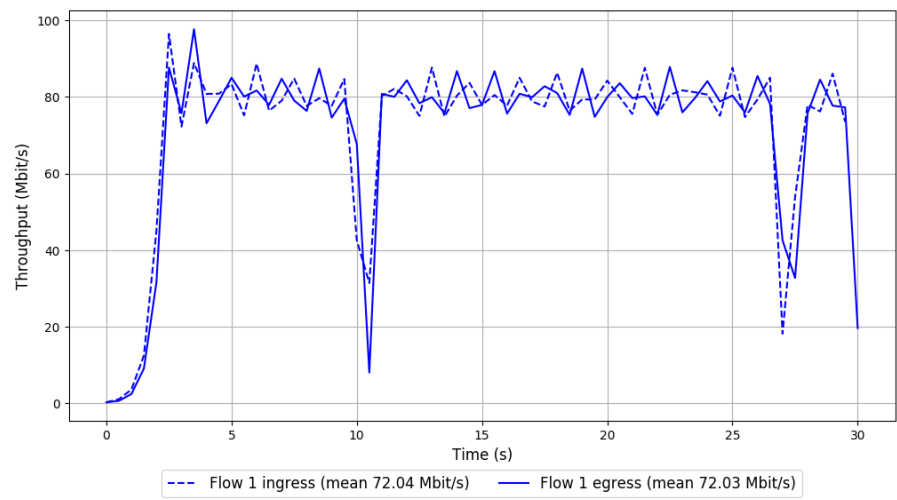
-- Flow 1:

Average throughput: 72.03 Mbit/s

95th percentile per-packet one-way delay: 136.618 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-04-24 21:58:42

End at: 2018-04-24 21:59:12

Below is generated by plot.py at 2018-04-25 00:28:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.27 Mbit/s

95th percentile per-packet one-way delay: 136.634 ms

Loss rate: 0.00%

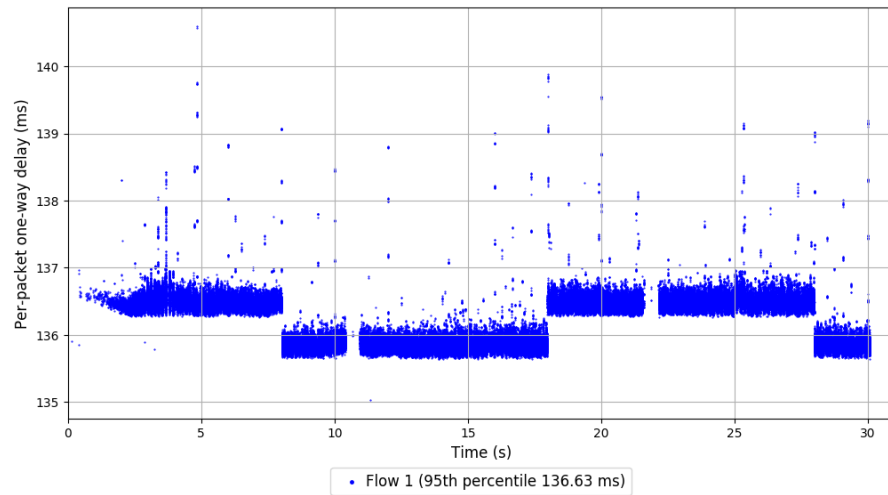
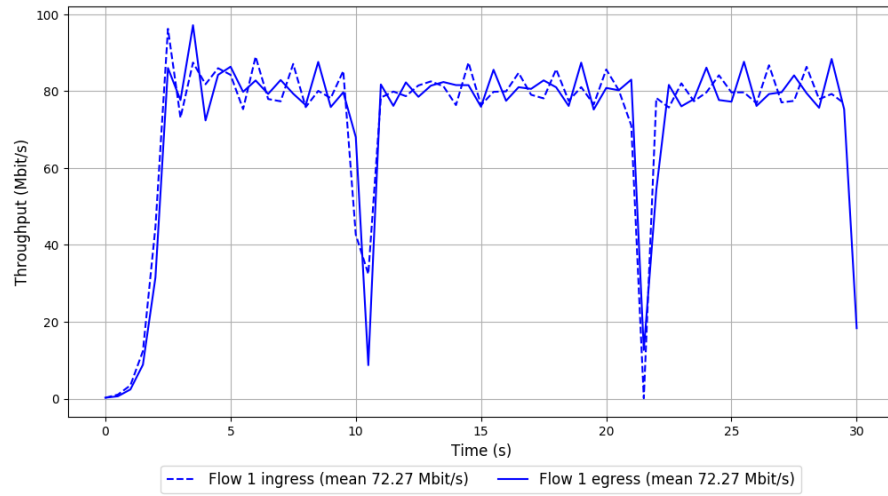
-- Flow 1:

Average throughput: 72.27 Mbit/s

95th percentile per-packet one-way delay: 136.634 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-24 22:13:16

End at: 2018-04-24 22:13:46

Below is generated by plot.py at 2018-04-25 00:28:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.05 Mbit/s

95th percentile per-packet one-way delay: 136.524 ms

Loss rate: 0.00%

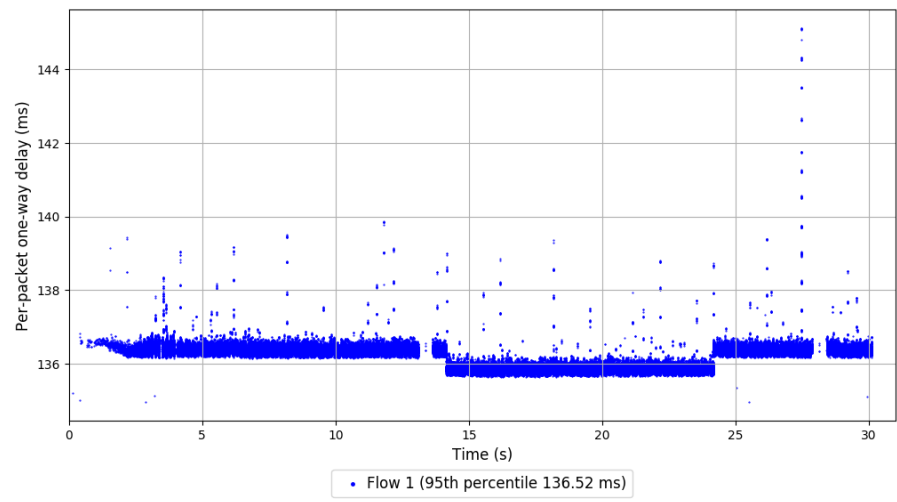
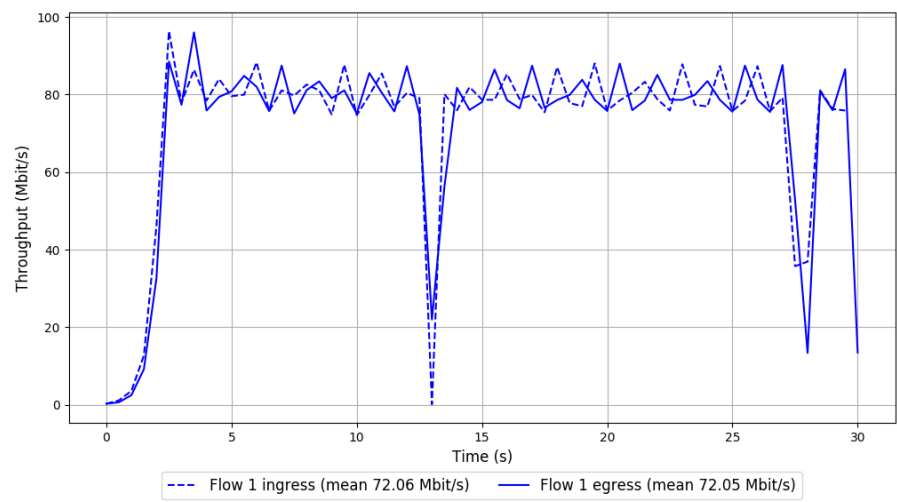
-- Flow 1:

Average throughput: 72.05 Mbit/s

95th percentile per-packet one-way delay: 136.524 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-24 22:27:53

End at: 2018-04-24 22:28:23

Below is generated by plot.py at 2018-04-25 00:28:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.52 Mbit/s

95th percentile per-packet one-way delay: 136.527 ms

Loss rate: 0.00%

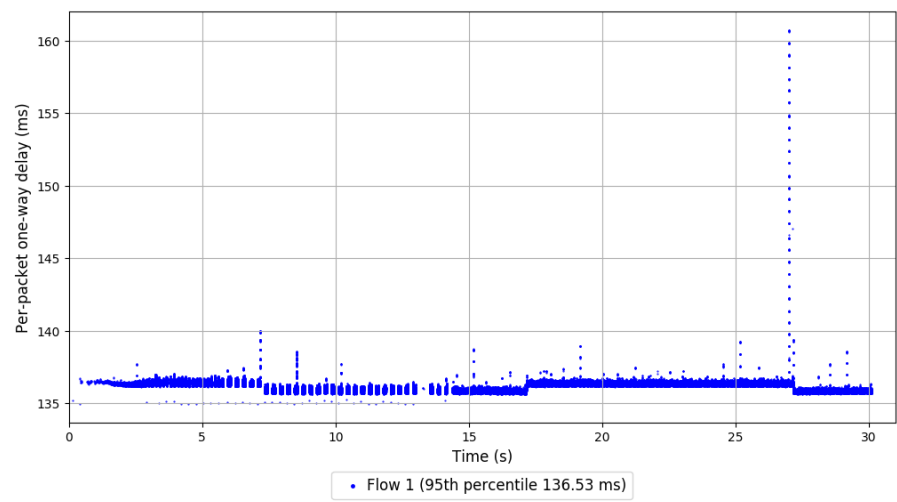
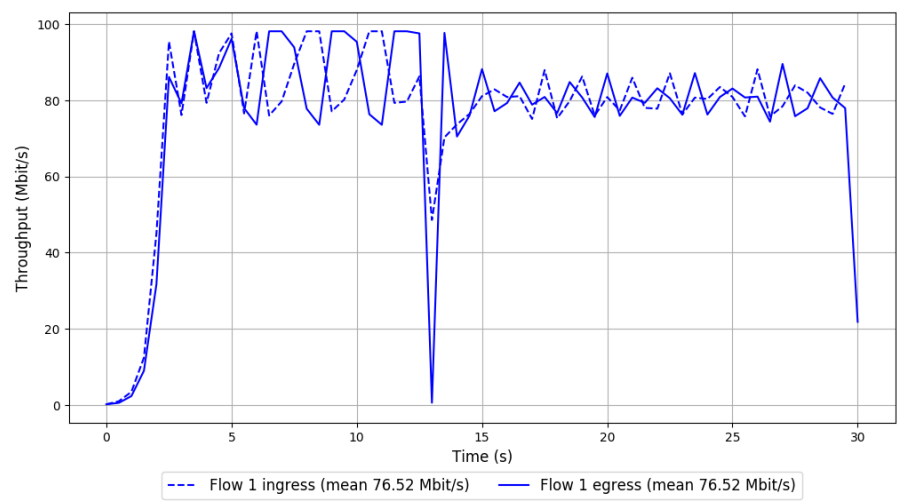
-- Flow 1:

Average throughput: 76.52 Mbit/s

95th percentile per-packet one-way delay: 136.527 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-04-24 22:42:14

End at: 2018-04-24 22:42:44

Below is generated by plot.py at 2018-04-25 00:28:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.09 Mbit/s

95th percentile per-packet one-way delay: 136.710 ms

Loss rate: 0.00%

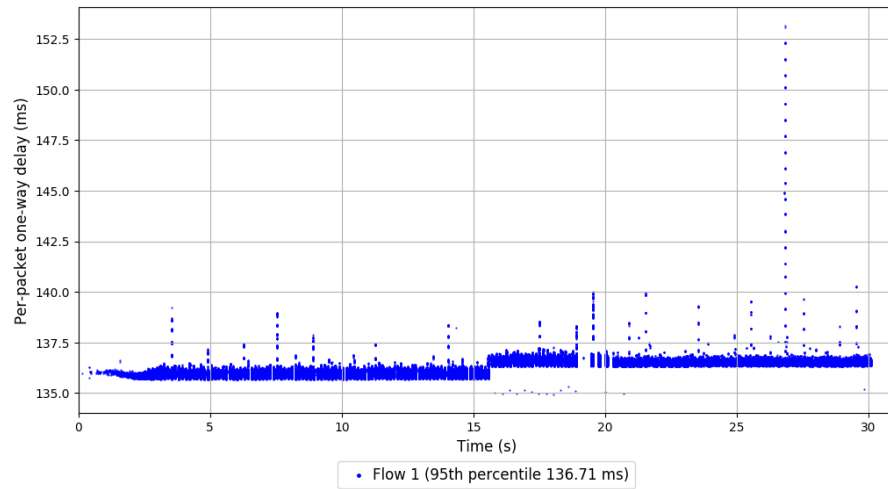
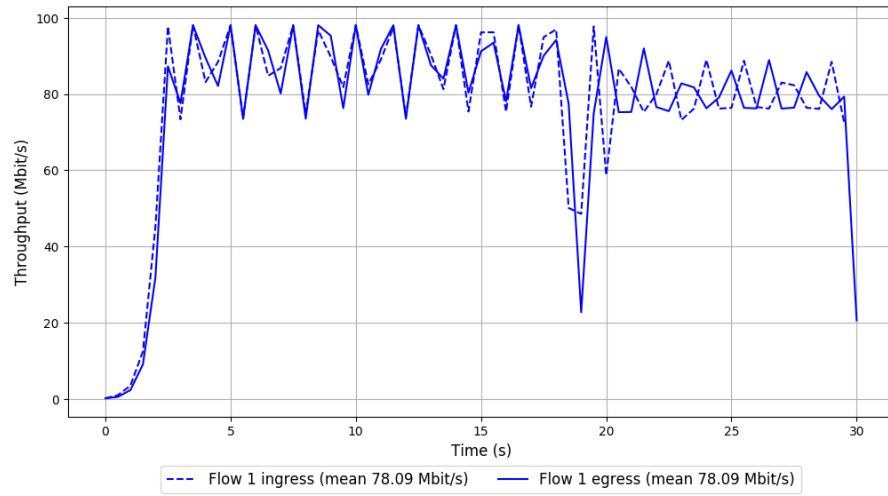
-- Flow 1:

Average throughput: 78.09 Mbit/s

95th percentile per-packet one-way delay: 136.710 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-24 22:56:49

End at: 2018-04-24 22:57:19

Below is generated by plot.py at 2018-04-25 00:28:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.67 Mbit/s

95th percentile per-packet one-way delay: 136.240 ms

Loss rate: 0.00%

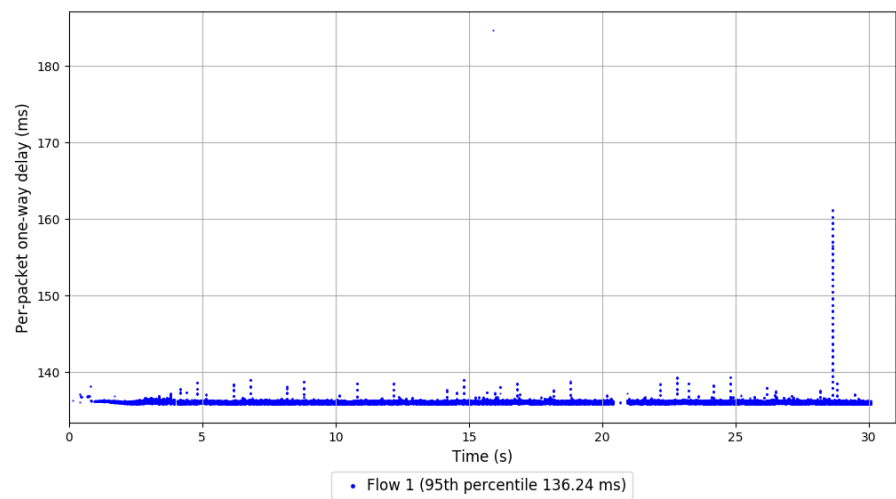
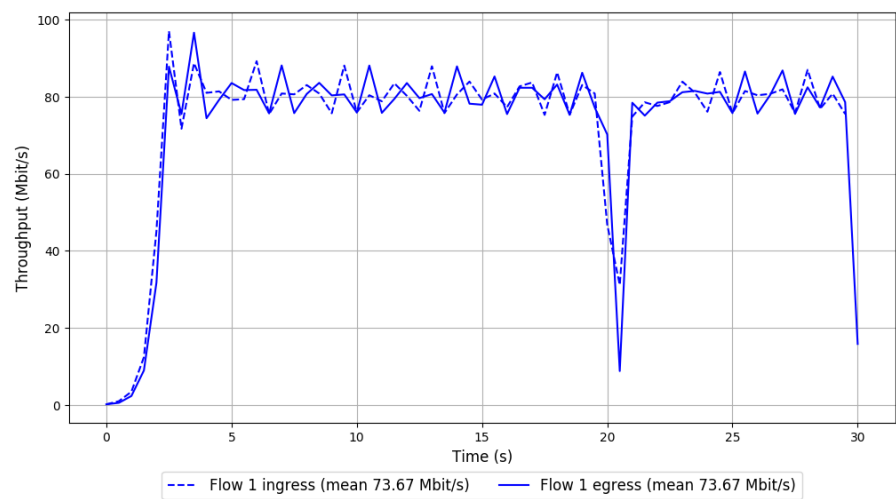
-- Flow 1:

Average throughput: 73.67 Mbit/s

95th percentile per-packet one-way delay: 136.240 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-24 23:11:24

End at: 2018-04-24 23:11:54

Below is generated by plot.py at 2018-04-25 00:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.31 Mbit/s

95th percentile per-packet one-way delay: 136.304 ms

Loss rate: 0.00%

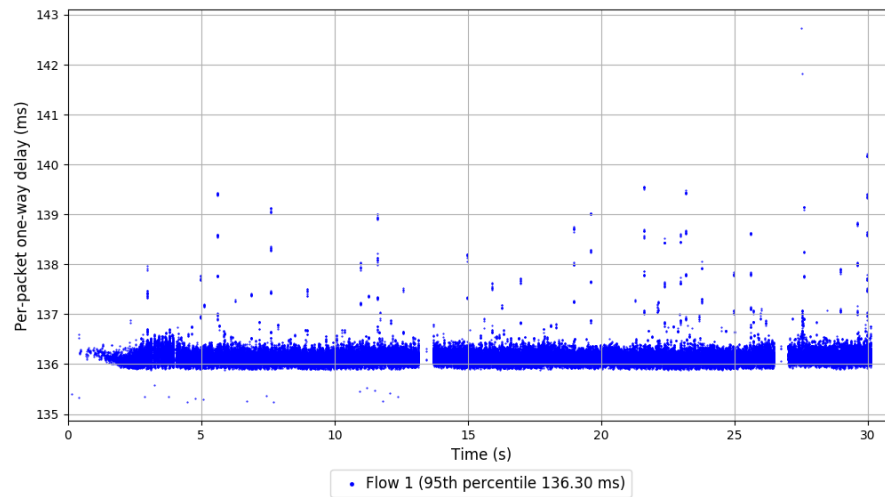
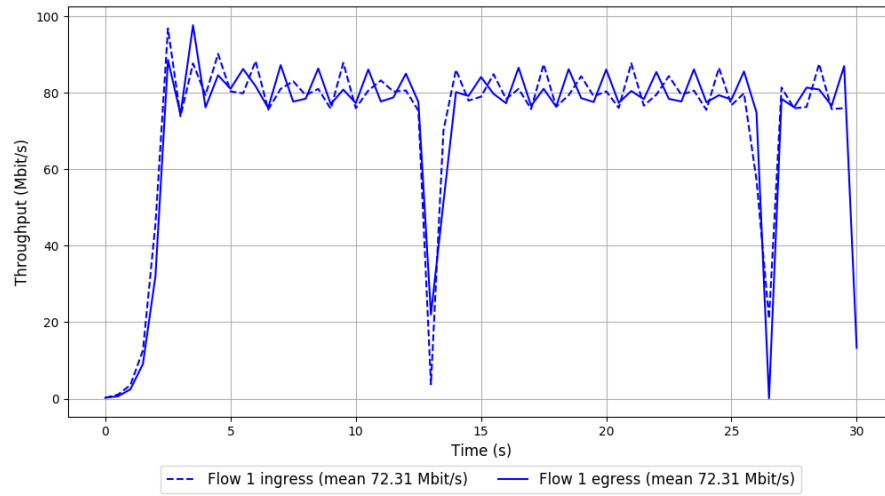
-- Flow 1:

Average throughput: 72.31 Mbit/s

95th percentile per-packet one-way delay: 136.304 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-04-24 23:25:56

End at: 2018-04-24 23:26:26

Below is generated by plot.py at 2018-04-25 00:29:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.93 Mbit/s

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

Loss rate: 0.00%

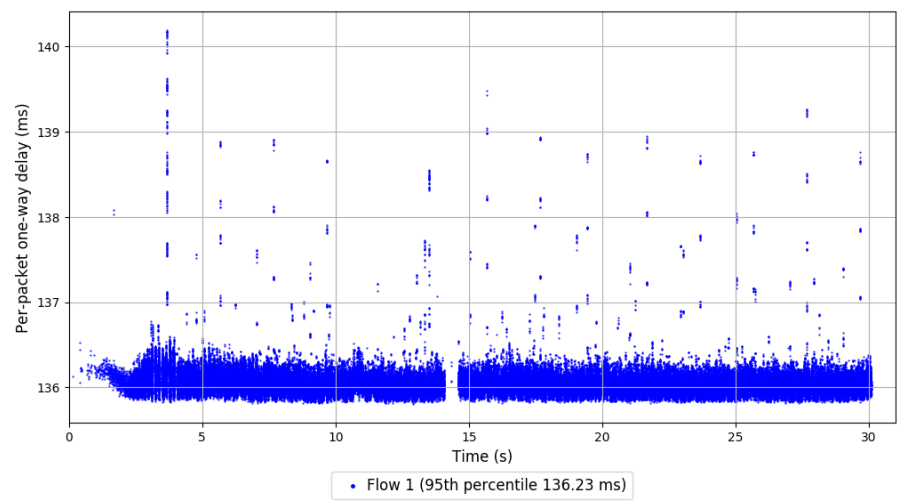
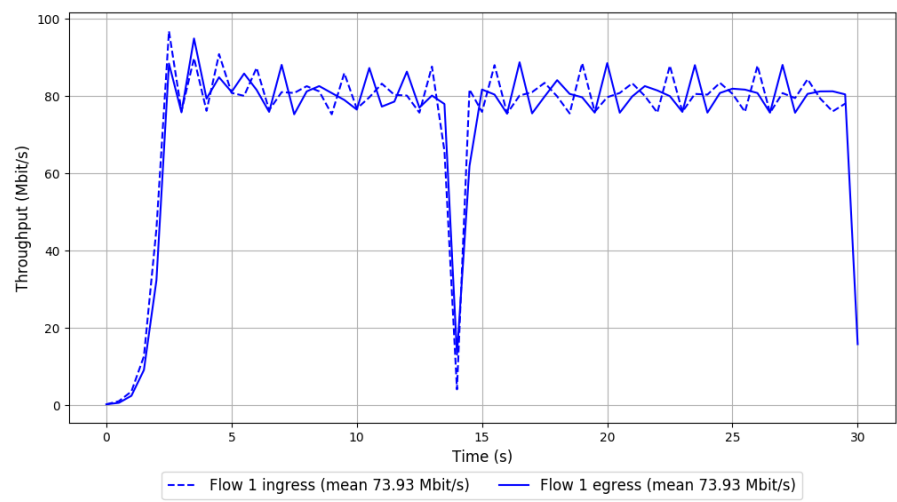
-- Flow 1:

Average throughput: 73.93 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-04-24 21:16:05

End at: 2018-04-24 21:16:35

Below is generated by plot.py at 2018-04-25 00:29:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.39 Mbit/s

95th percentile per-packet one-way delay: 143.737 ms

Loss rate: 0.00%

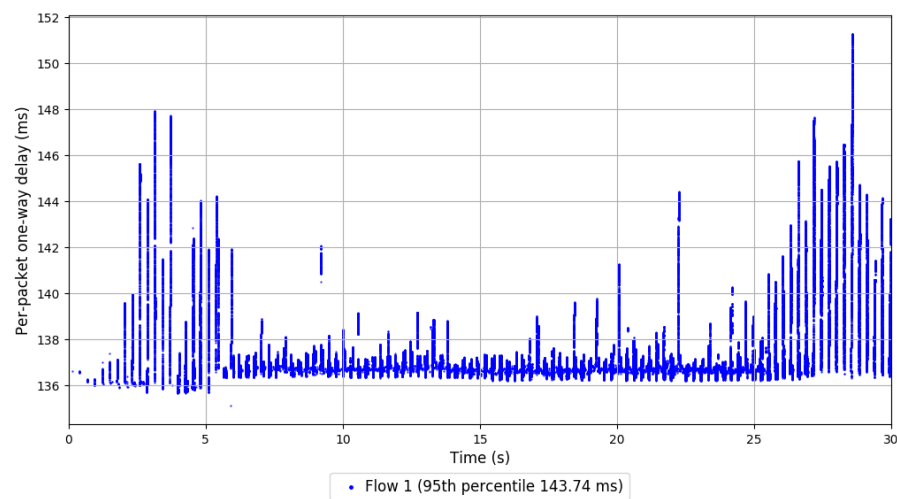
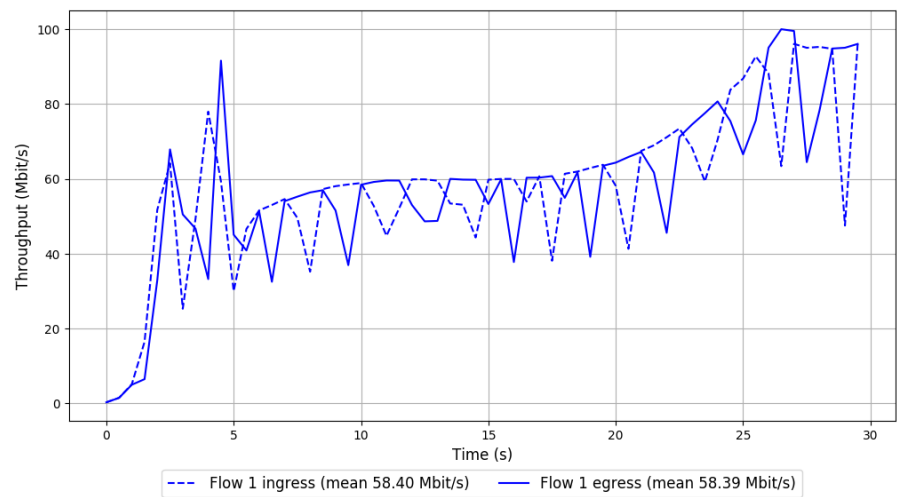
-- Flow 1:

Average throughput: 58.39 Mbit/s

95th percentile per-packet one-way delay: 143.737 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-04-24 21:30:43

End at: 2018-04-24 21:31:13

Below is generated by plot.py at 2018-04-25 00:29:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.09 Mbit/s

95th percentile per-packet one-way delay: 139.222 ms

Loss rate: 0.00%

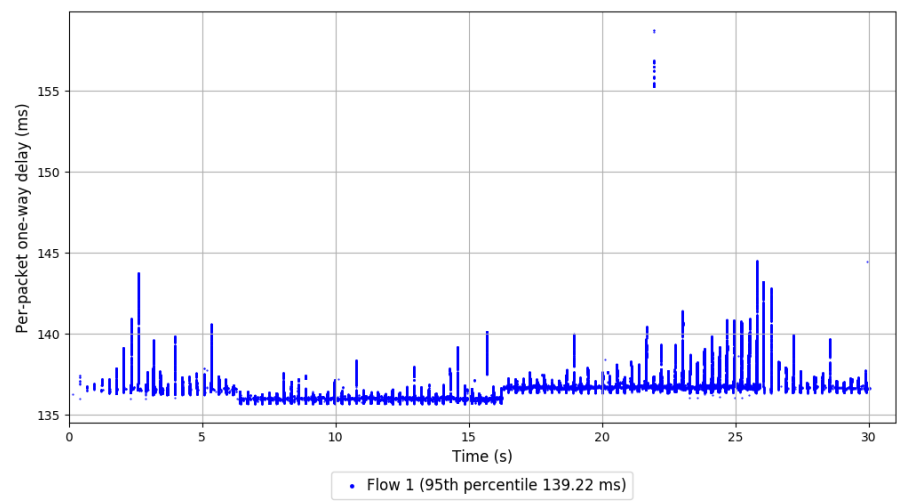
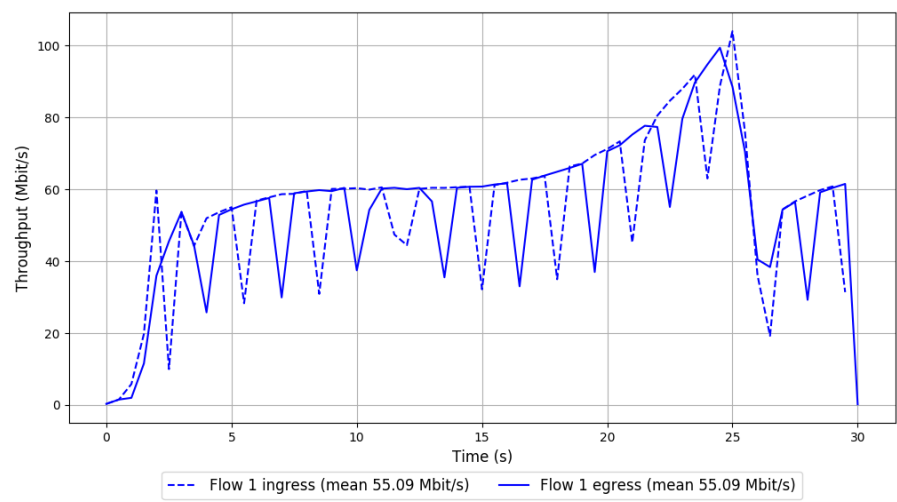
-- Flow 1:

Average throughput: 55.09 Mbit/s

95th percentile per-packet one-way delay: 139.222 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-04-24 21:44:55

End at: 2018-04-24 21:45:25

Below is generated by plot.py at 2018-04-25 00:29:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.64 Mbit/s

95th percentile per-packet one-way delay: 140.452 ms

Loss rate: 0.00%

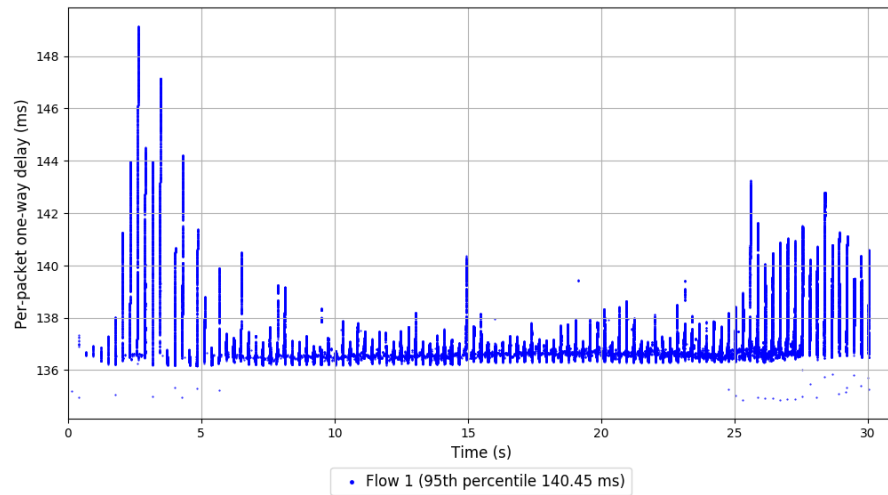
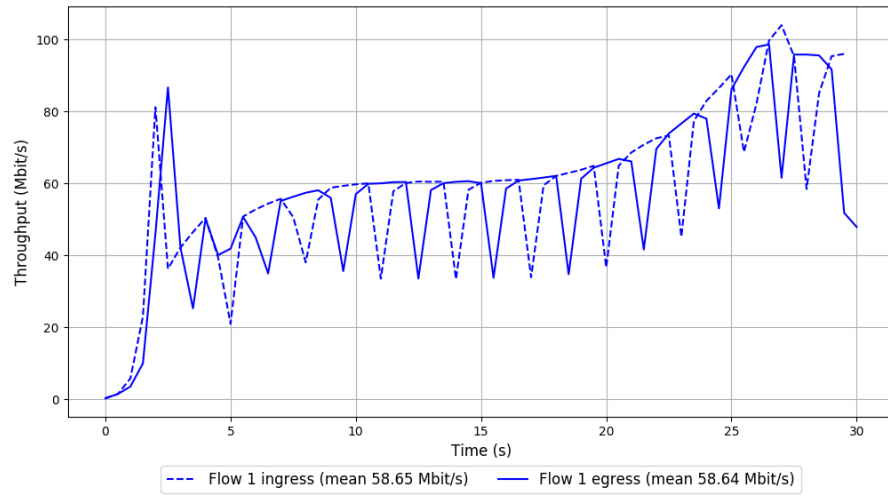
-- Flow 1:

Average throughput: 58.64 Mbit/s

95th percentile per-packet one-way delay: 140.452 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-04-24 21:59:29

End at: 2018-04-24 21:59:59

Below is generated by plot.py at 2018-04-25 00:29:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.57 Mbit/s

95th percentile per-packet one-way delay: 144.622 ms

Loss rate: 0.00%

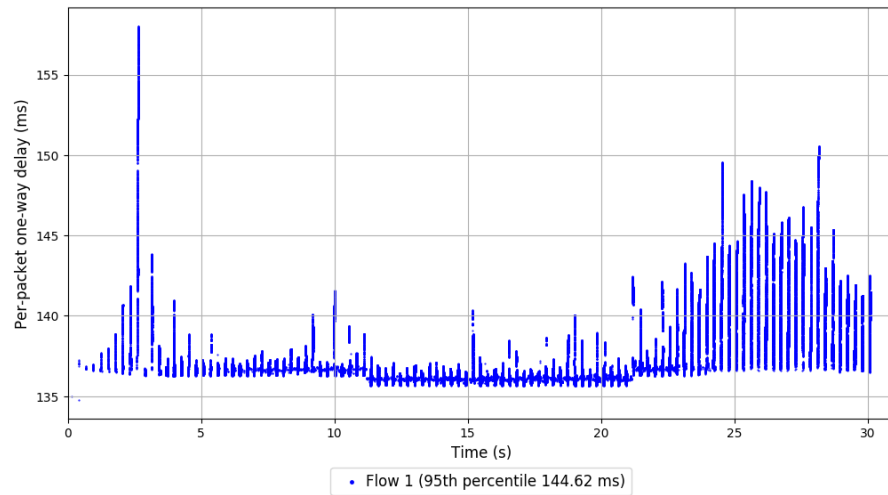
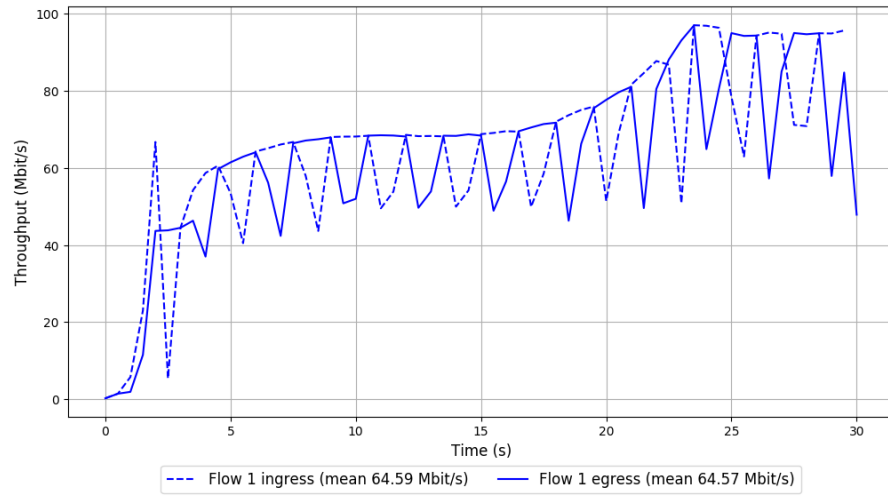
-- Flow 1:

Average throughput: 64.57 Mbit/s

95th percentile per-packet one-way delay: 144.622 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-24 22:14:02

End at: 2018-04-24 22:14:32

Below is generated by plot.py at 2018-04-25 00:29:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.21 Mbit/s

95th percentile per-packet one-way delay: 139.149 ms

Loss rate: 0.00%

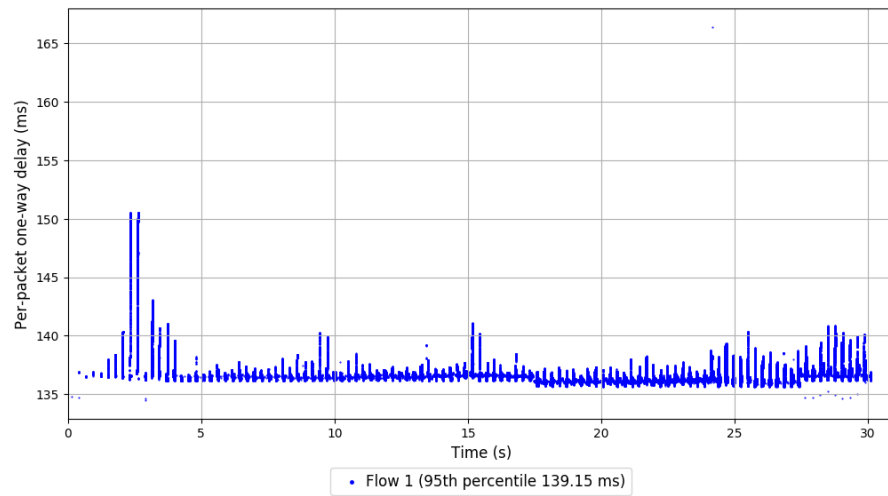
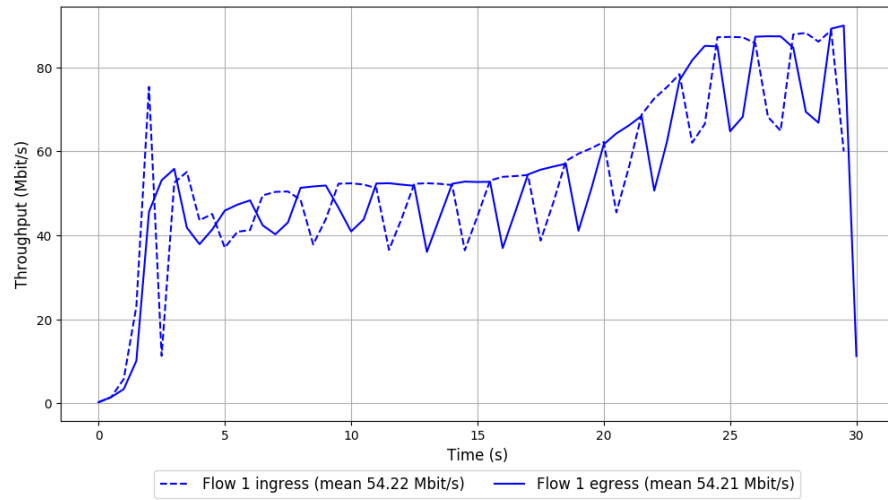
-- Flow 1:

Average throughput: 54.21 Mbit/s

95th percentile per-packet one-way delay: 139.149 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-04-24 22:28:40

End at: 2018-04-24 22:29:10

Below is generated by plot.py at 2018-04-25 00:29:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.97 Mbit/s

95th percentile per-packet one-way delay: 139.956 ms

Loss rate: 0.00%

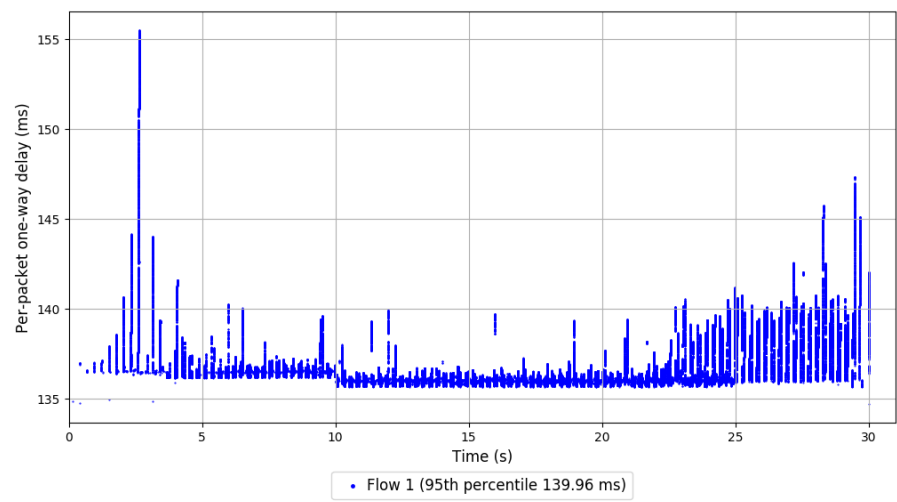
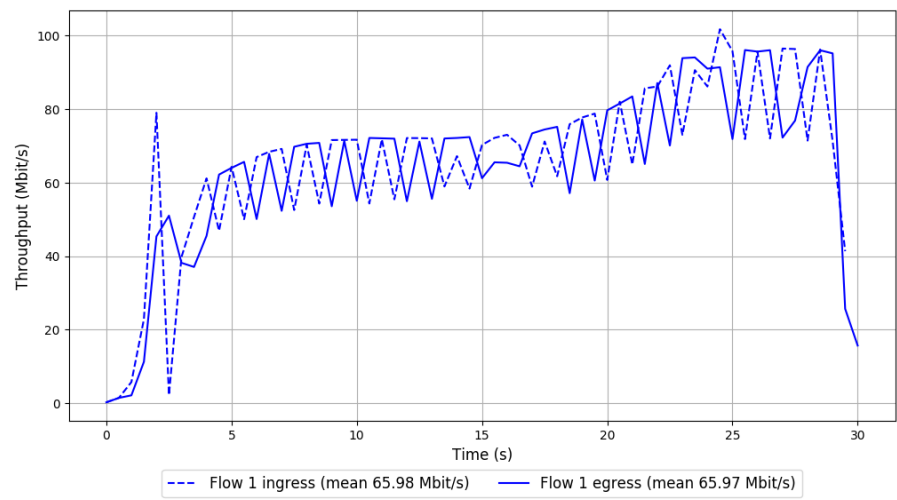
-- Flow 1:

Average throughput: 65.97 Mbit/s

95th percentile per-packet one-way delay: 139.956 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-24 22:43:01

End at: 2018-04-24 22:43:31

Below is generated by plot.py at 2018-04-25 00:30:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.42 Mbit/s

95th percentile per-packet one-way delay: 141.709 ms

Loss rate: 0.00%

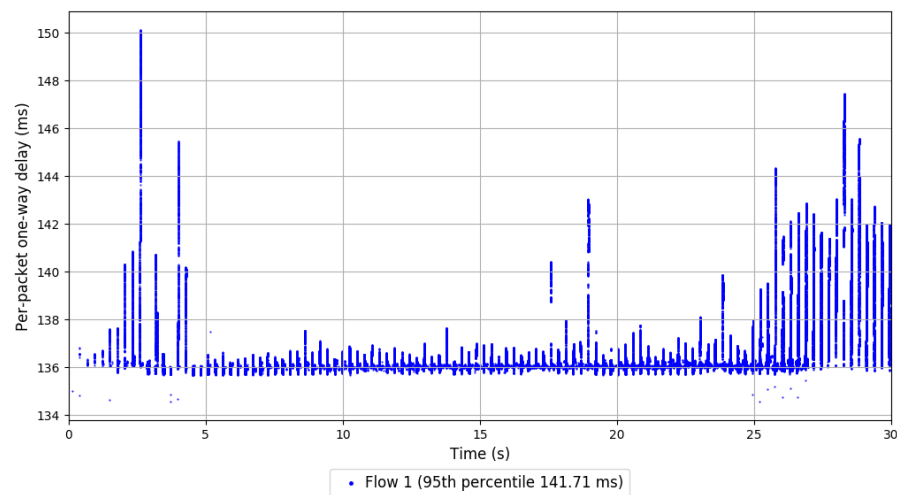
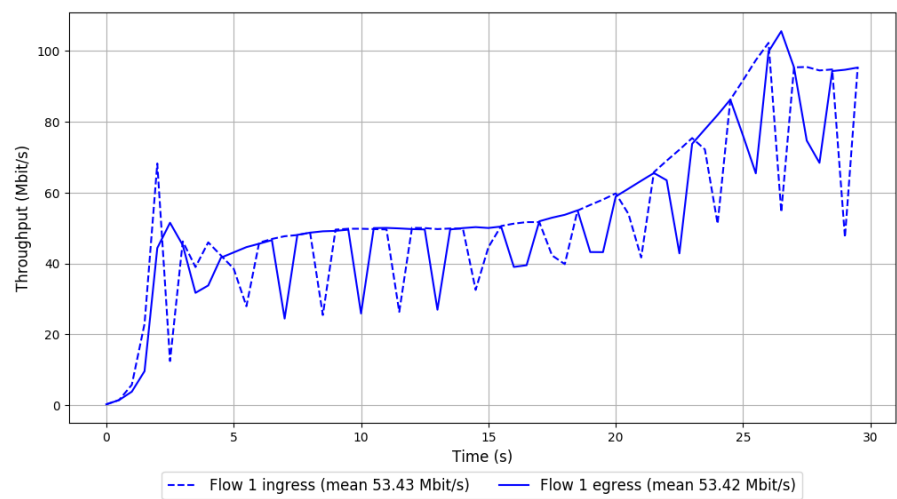
-- Flow 1:

Average throughput: 53.42 Mbit/s

95th percentile per-packet one-way delay: 141.709 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-04-24 22:57:36

End at: 2018-04-24 22:58:06

Below is generated by plot.py at 2018-04-25 00:30:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.36 Mbit/s

95th percentile per-packet one-way delay: 139.336 ms

Loss rate: 0.00%

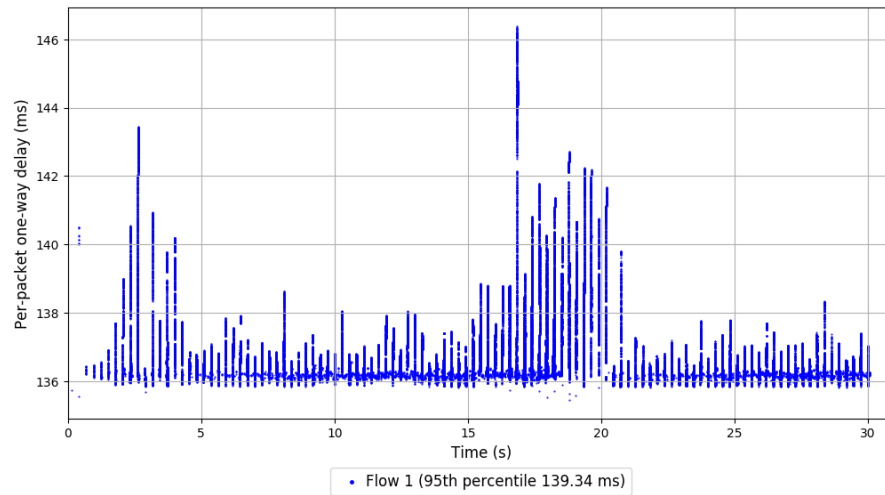
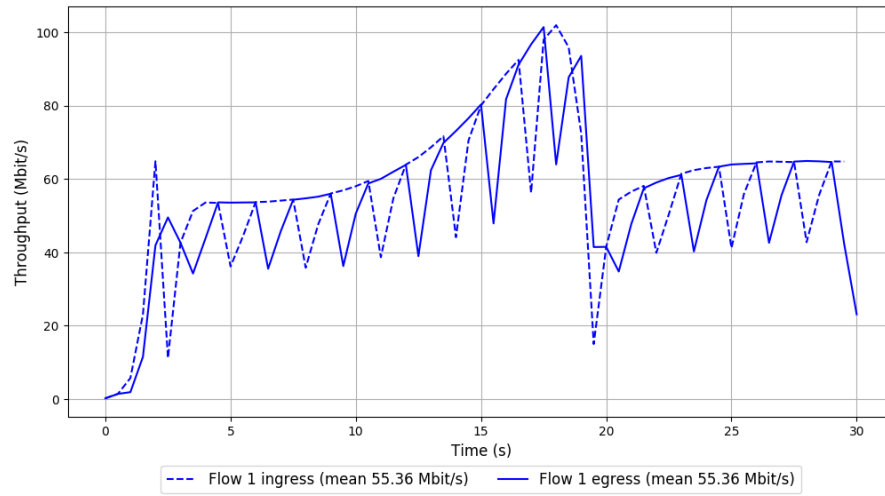
-- Flow 1:

Average throughput: 55.36 Mbit/s

95th percentile per-packet one-way delay: 139.336 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-24 23:12:11

End at: 2018-04-24 23:12:41

Below is generated by plot.py at 2018-04-25 00:30:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.32 Mbit/s

95th percentile per-packet one-way delay: 142.776 ms

Loss rate: 0.00%

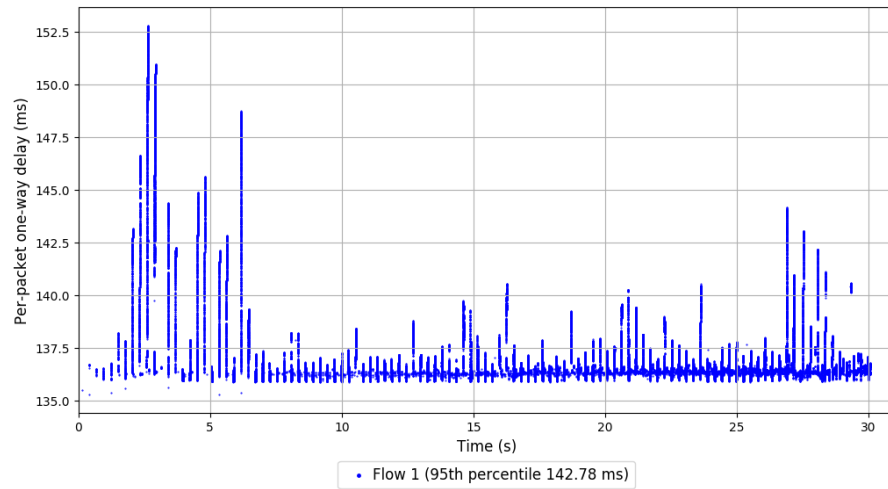
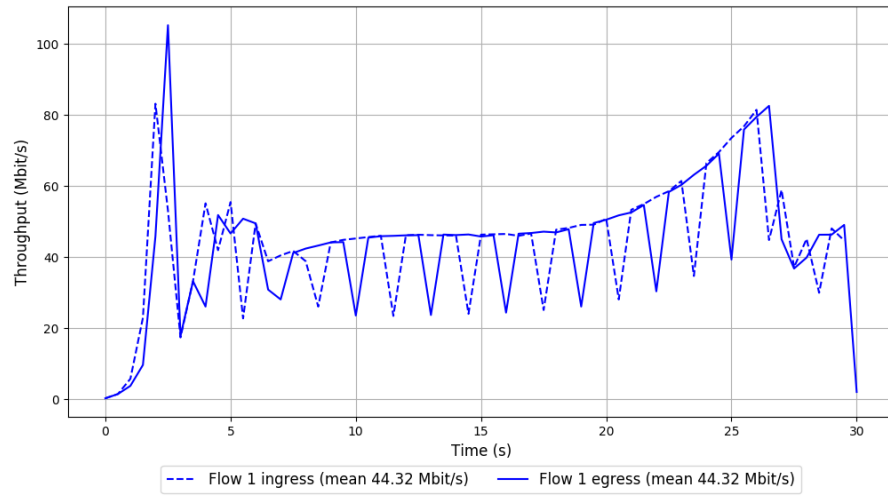
-- Flow 1:

Average throughput: 44.32 Mbit/s

95th percentile per-packet one-way delay: 142.776 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-24 23:26:43

End at: 2018-04-24 23:27:13

Below is generated by plot.py at 2018-04-25 00:30:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.05 Mbit/s

95th percentile per-packet one-way delay: 138.430 ms

Loss rate: 0.00%

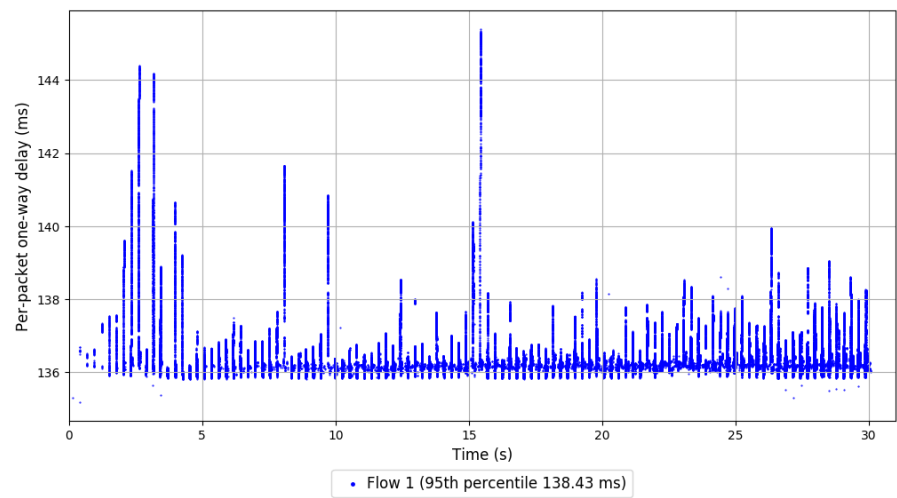
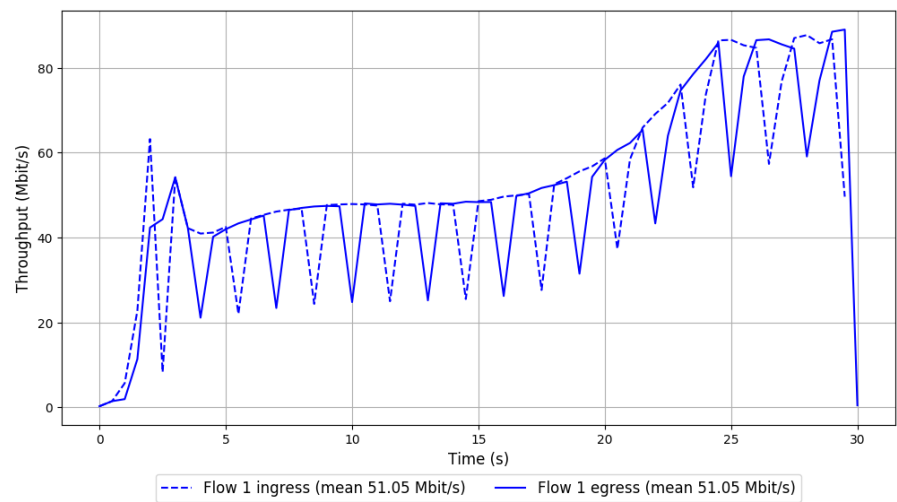
-- Flow 1:

Average throughput: 51.05 Mbit/s

95th percentile per-packet one-way delay: 138.430 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

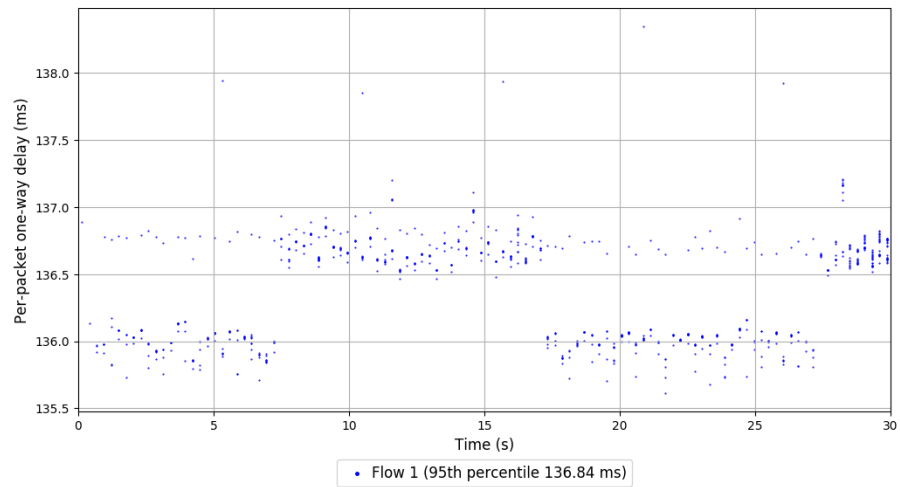
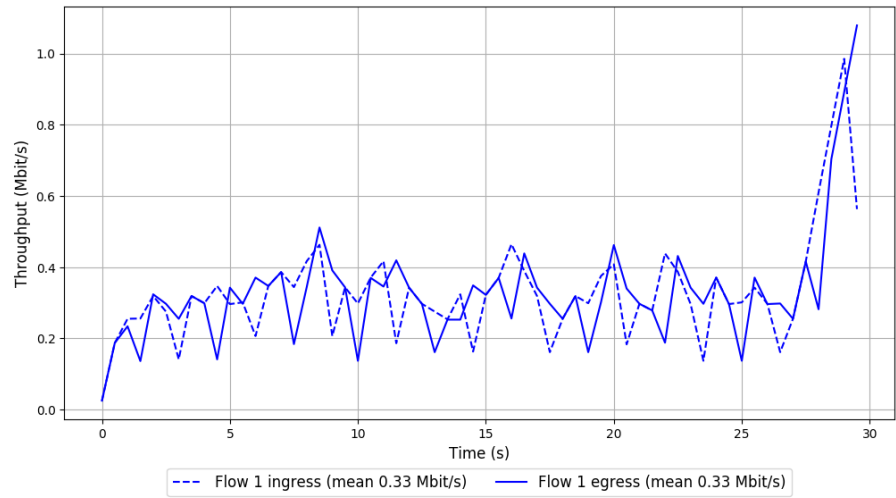


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-24 21:04:42
End at: 2018-04-24 21:05:12

# Below is generated by plot.py at 2018-04-25 00:30:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 136.842 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 136.842 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

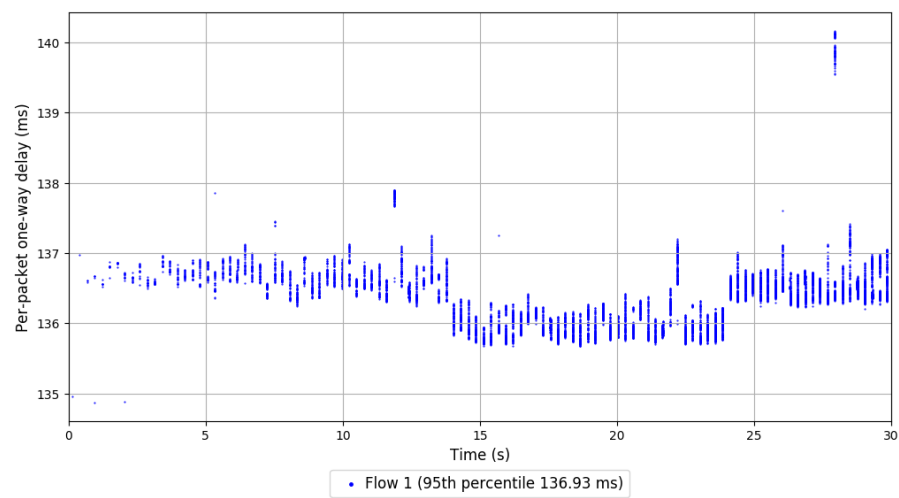
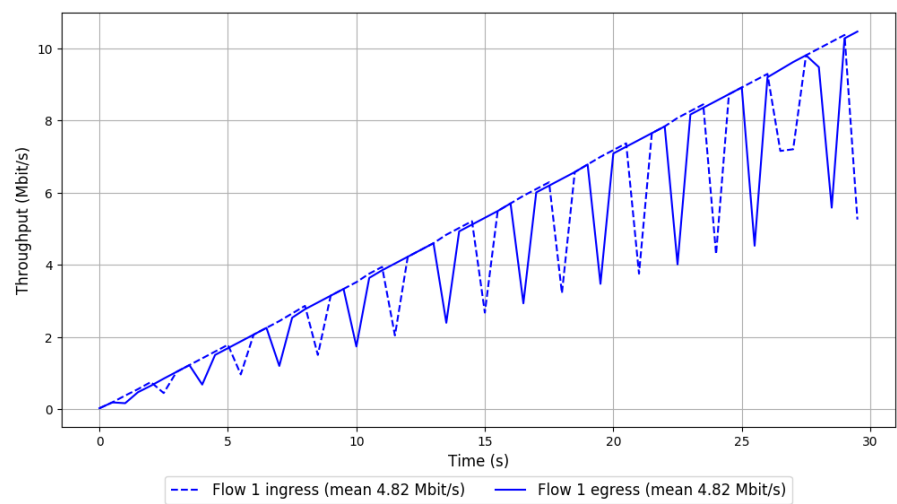


```
Run 2: Statistics of LEDBAT

Start at: 2018-04-24 21:18:56
End at: 2018-04-24 21:19:26

# Below is generated by plot.py at 2018-04-25 00:30:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.82 Mbit/s
95th percentile per-packet one-way delay: 136.926 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.82 Mbit/s
95th percentile per-packet one-way delay: 136.926 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-24 21:33:26

End at: 2018-04-24 21:33:56

Below is generated by plot.py at 2018-04-25 00:30:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.83 Mbit/s

95th percentile per-packet one-way delay: 137.261 ms

Loss rate: 0.00%

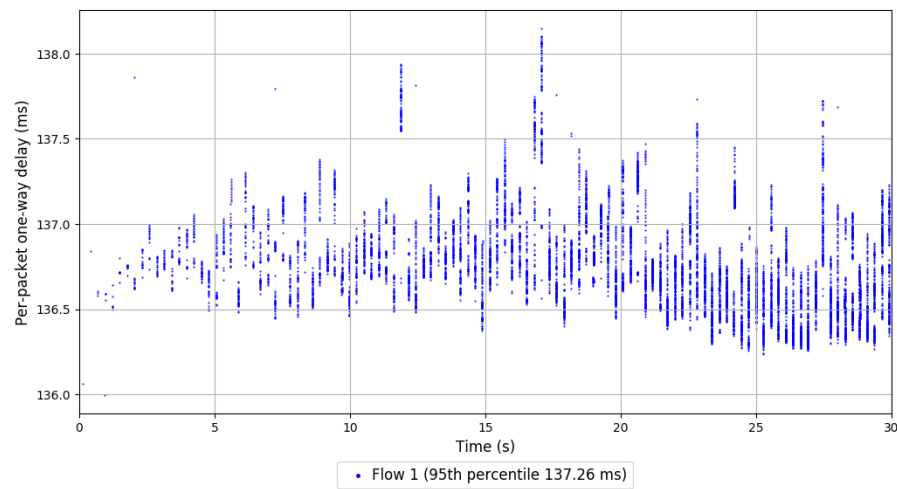
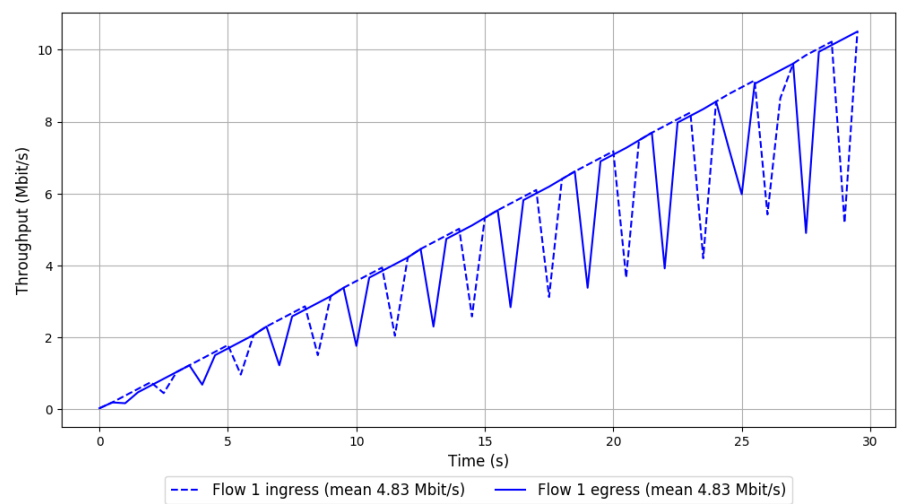
-- Flow 1:

Average throughput: 4.83 Mbit/s

95th percentile per-packet one-way delay: 137.261 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-04-24 21:47:45

End at: 2018-04-24 21:48:15

Below is generated by plot.py at 2018-04-25 00:30:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.80 Mbit/s

95th percentile per-packet one-way delay: 137.077 ms

Loss rate: 0.00%

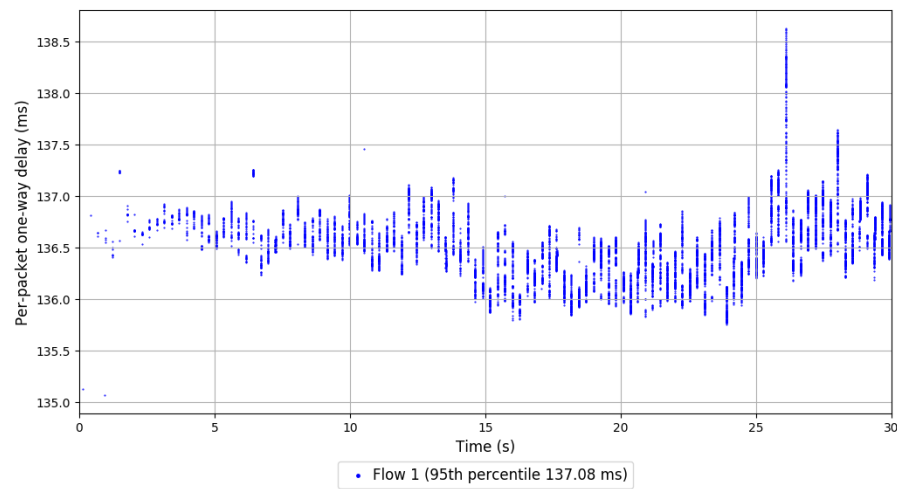
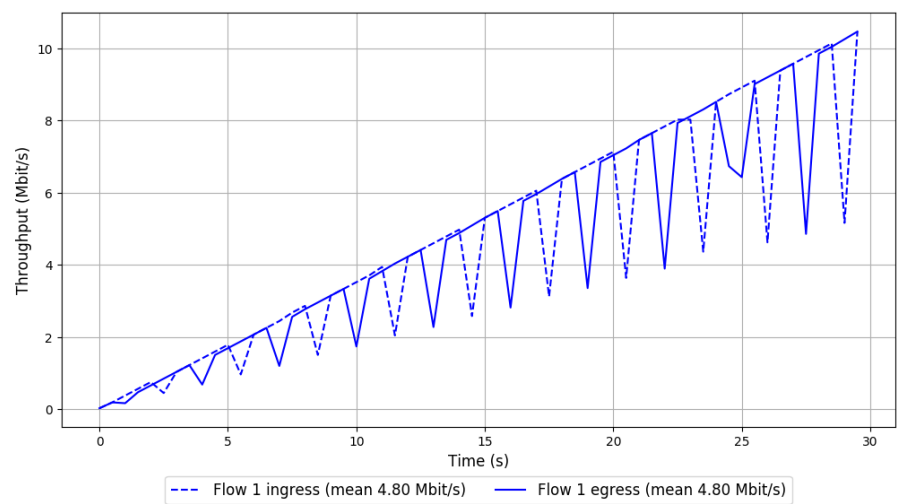
-- Flow 1:

Average throughput: 4.80 Mbit/s

95th percentile per-packet one-way delay: 137.077 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-24 22:02:15

End at: 2018-04-24 22:02:45

Below is generated by plot.py at 2018-04-25 00:30:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.61 Mbit/s

95th percentile per-packet one-way delay: 137.108 ms

Loss rate: 0.00%

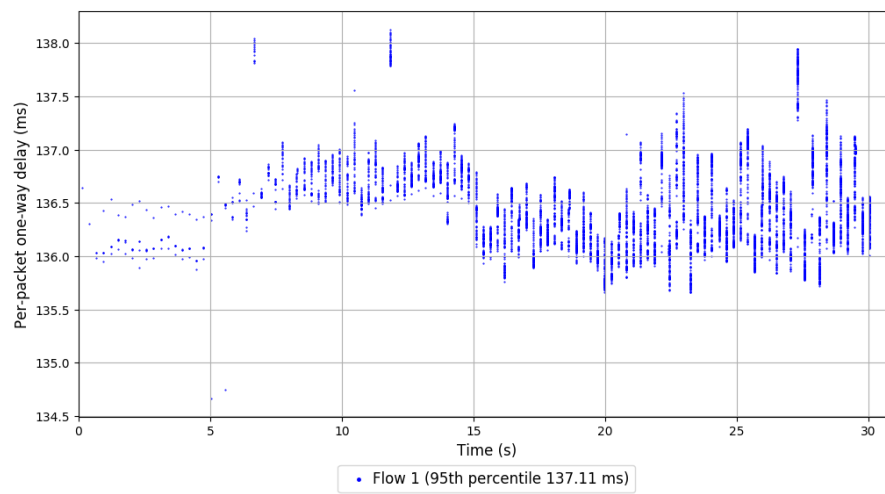
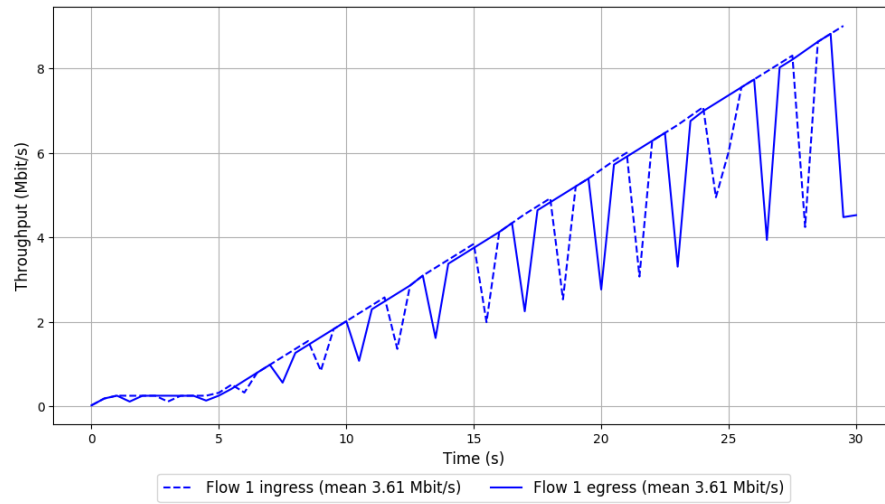
-- Flow 1:

Average throughput: 3.61 Mbit/s

95th percentile per-packet one-way delay: 137.108 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-04-24 22:16:54

End at: 2018-04-24 22:17:24

Below is generated by plot.py at 2018-04-25 00:30:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.83 Mbit/s

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

Loss rate: 0.00%

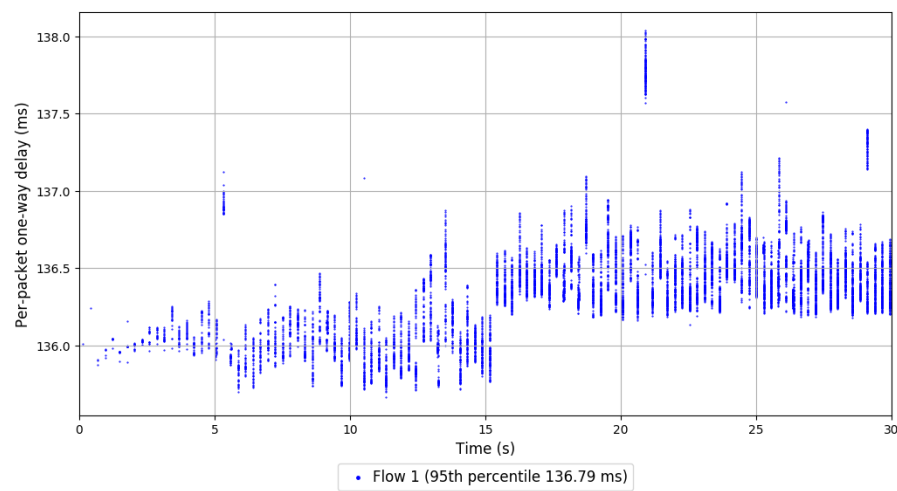
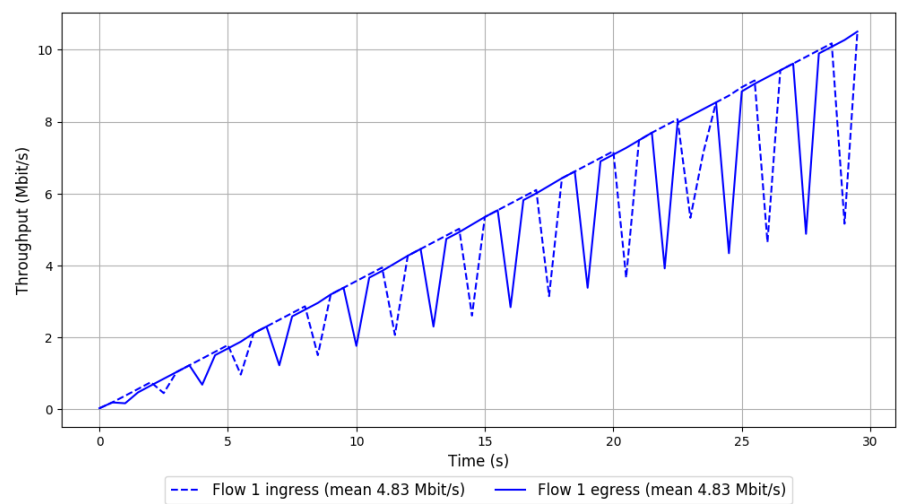
-- Flow 1:

Average throughput: 4.83 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-04-24 22:31:33

End at: 2018-04-24 22:32:03

Below is generated by plot.py at 2018-04-25 00:30:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.83 Mbit/s

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

Loss rate: 0.00%

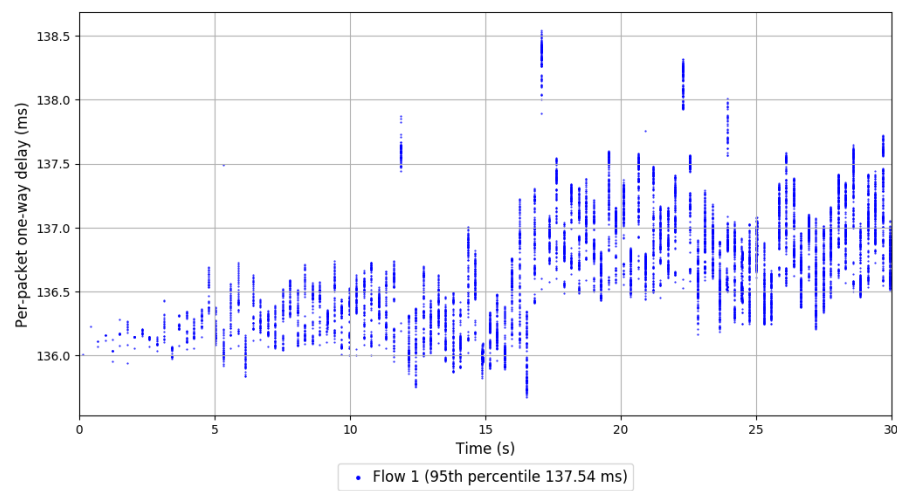
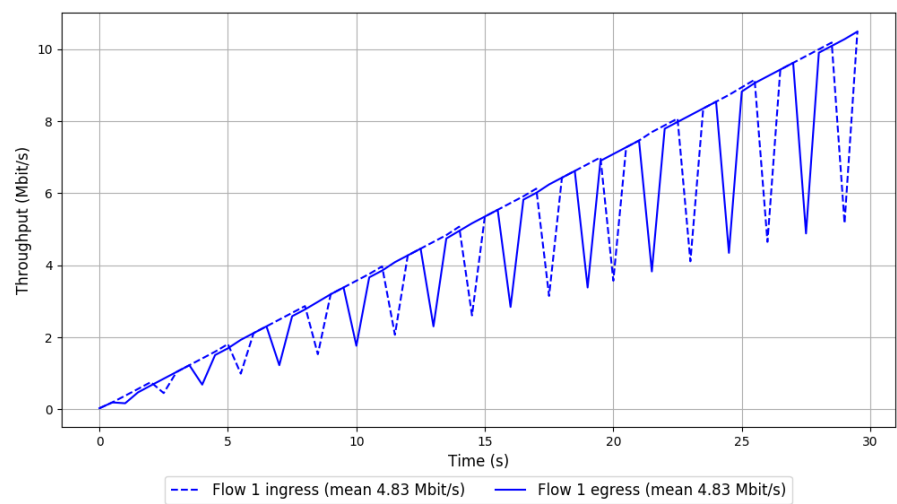
-- Flow 1:

Average throughput: 4.83 Mbit/s

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

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-24 22:45:51

End at: 2018-04-24 22:46:21

Below is generated by plot.py at 2018-04-25 00:30:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.85 Mbit/s

95th percentile per-packet one-way delay: 136.710 ms

Loss rate: 0.00%

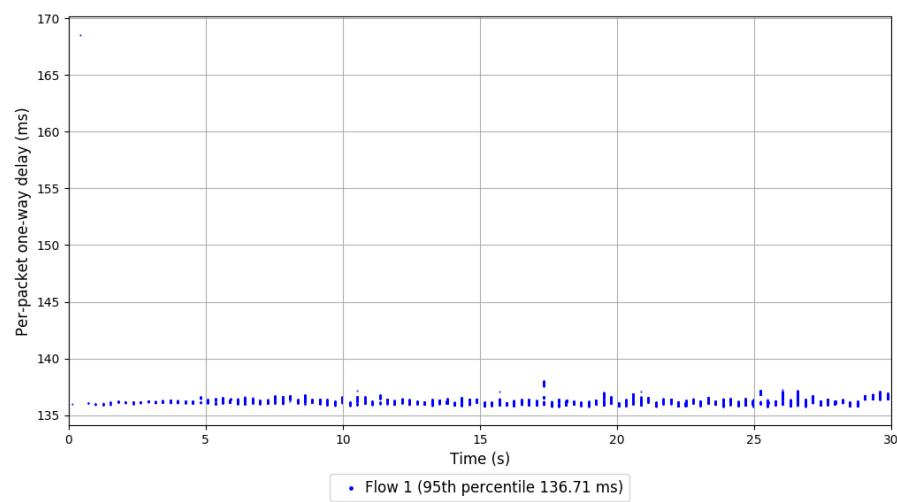
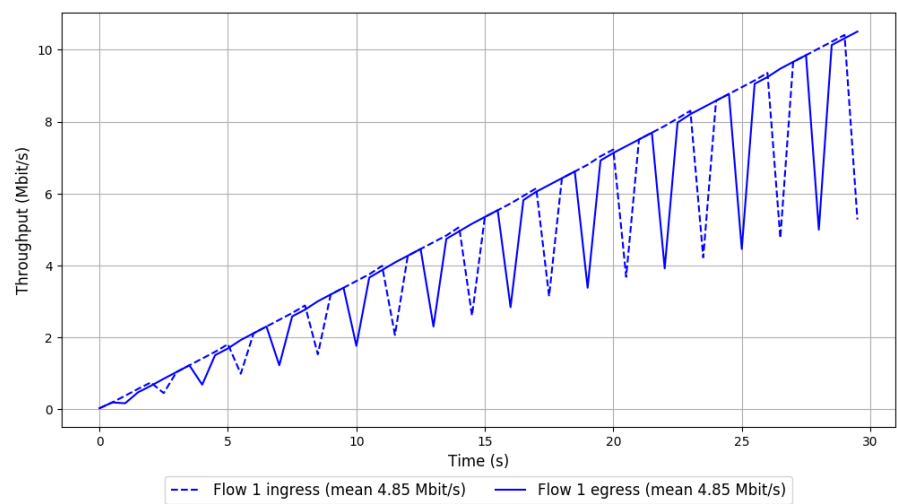
-- Flow 1:

Average throughput: 4.85 Mbit/s

95th percentile per-packet one-way delay: 136.710 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-04-24 23:00:24

End at: 2018-04-24 23:00:54

Below is generated by plot.py at 2018-04-25 00:30:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.83 Mbit/s

95th percentile per-packet one-way delay: 137.241 ms

Loss rate: 0.00%

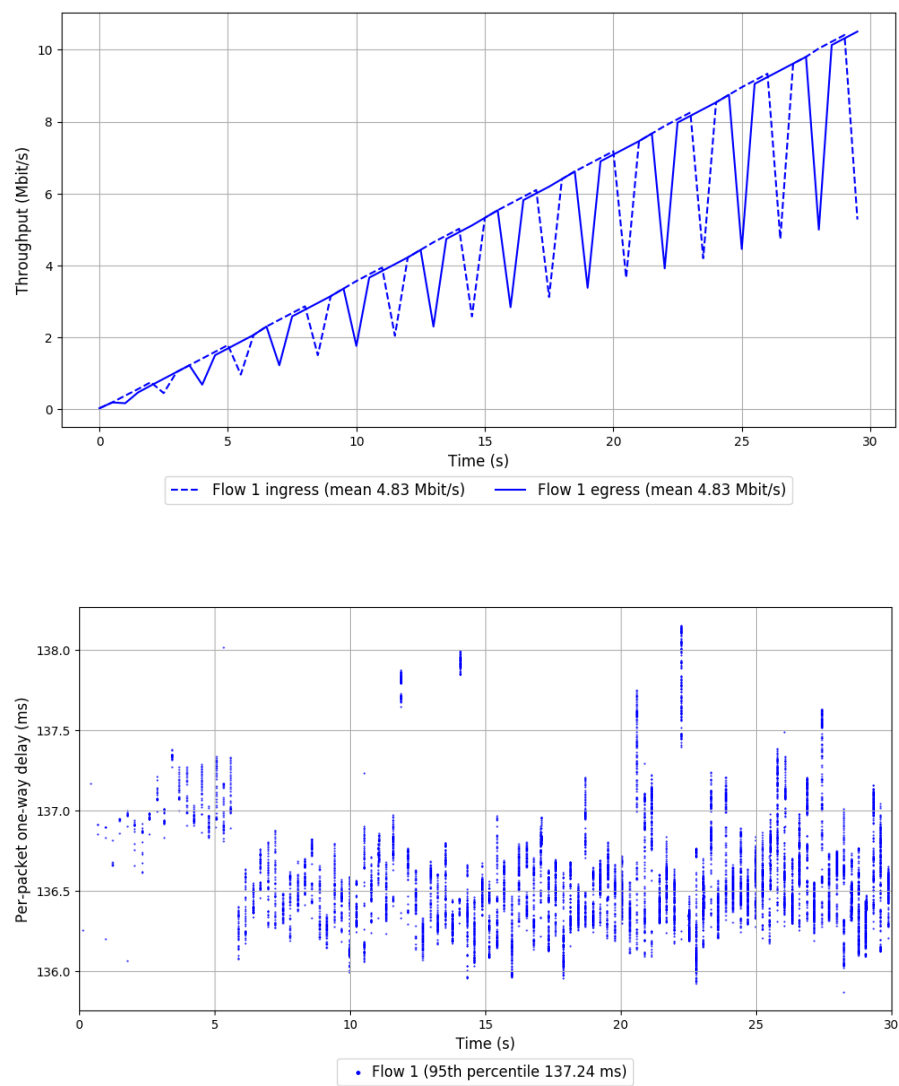
-- Flow 1:

Average throughput: 4.83 Mbit/s

95th percentile per-packet one-way delay: 137.241 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-24 23:14:56

End at: 2018-04-24 23:15:26

Below is generated by plot.py at 2018-04-25 00:30:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.81 Mbit/s

95th percentile per-packet one-way delay: 136.860 ms

Loss rate: 0.00%

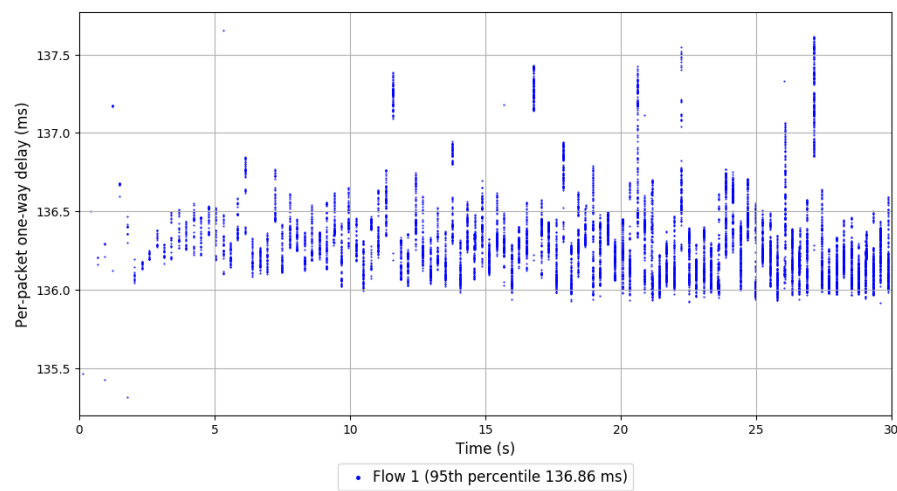
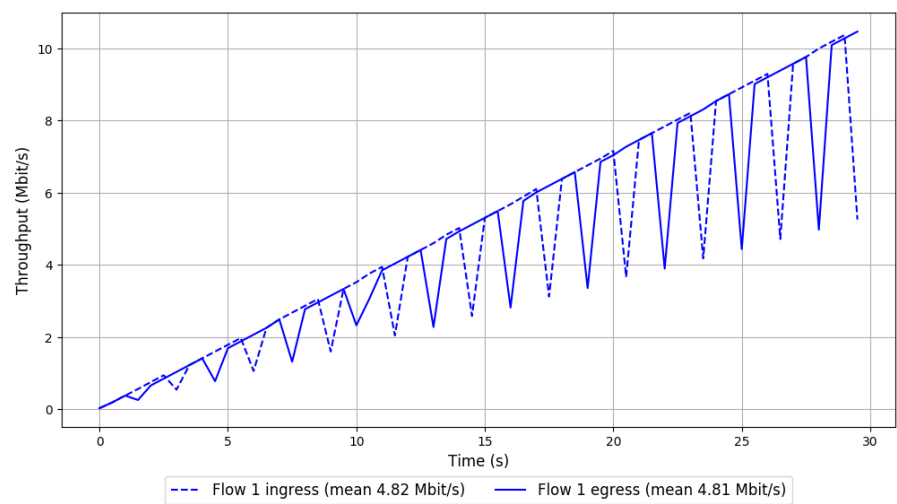
-- Flow 1:

Average throughput: 4.81 Mbit/s

95th percentile per-packet one-way delay: 136.860 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

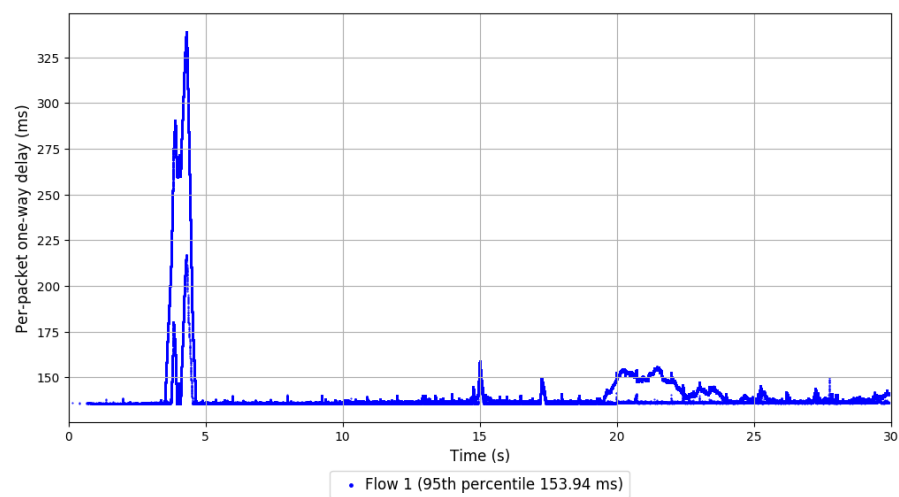
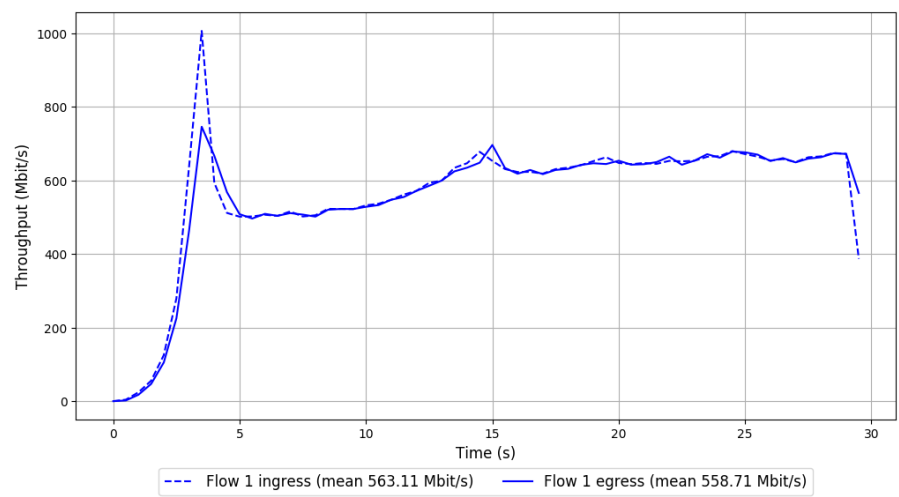


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-04-24 21:10:00
End at: 2018-04-24 21:10:30

# Below is generated by plot.py at 2018-04-25 00:38:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 558.71 Mbit/s
95th percentile per-packet one-way delay: 153.941 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 558.71 Mbit/s
95th percentile per-packet one-way delay: 153.941 ms
Loss rate: 0.78%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

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

End at: 2018-04-24 21:25:03

Below is generated by plot.py at 2018-04-25 00:38:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 528.51 Mbit/s

95th percentile per-packet one-way delay: 152.023 ms

Loss rate: 0.83%

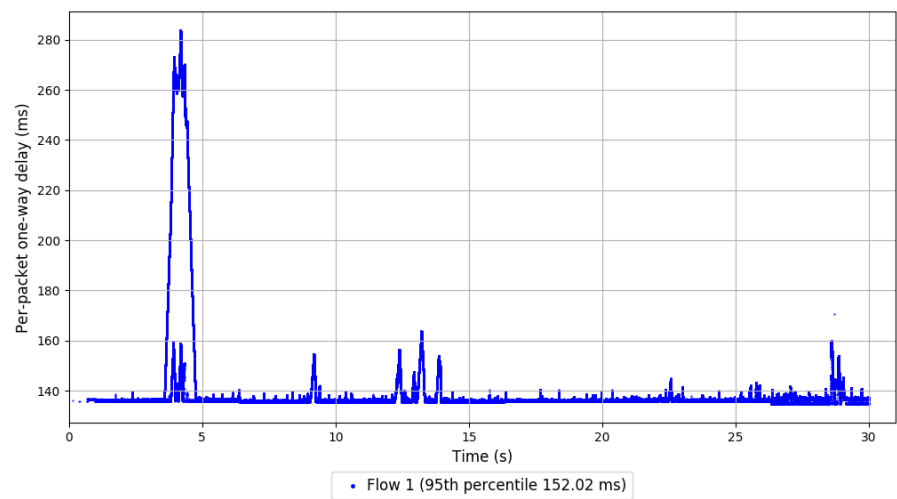
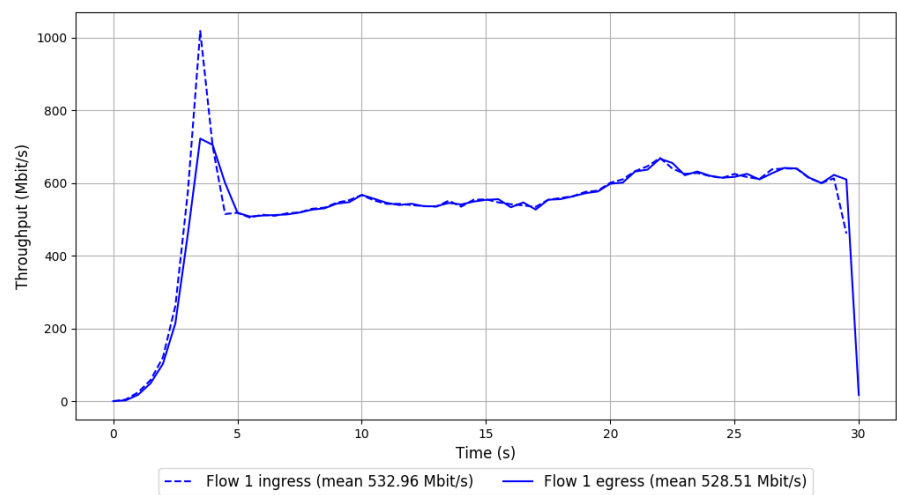
-- Flow 1:

Average throughput: 528.51 Mbit/s

95th percentile per-packet one-way delay: 152.023 ms

Loss rate: 0.83%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-04-24 21:38:44

End at: 2018-04-24 21:39:14

Below is generated by plot.py at 2018-04-25 00:38:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 538.60 Mbit/s

95th percentile per-packet one-way delay: 173.394 ms

Loss rate: 0.60%

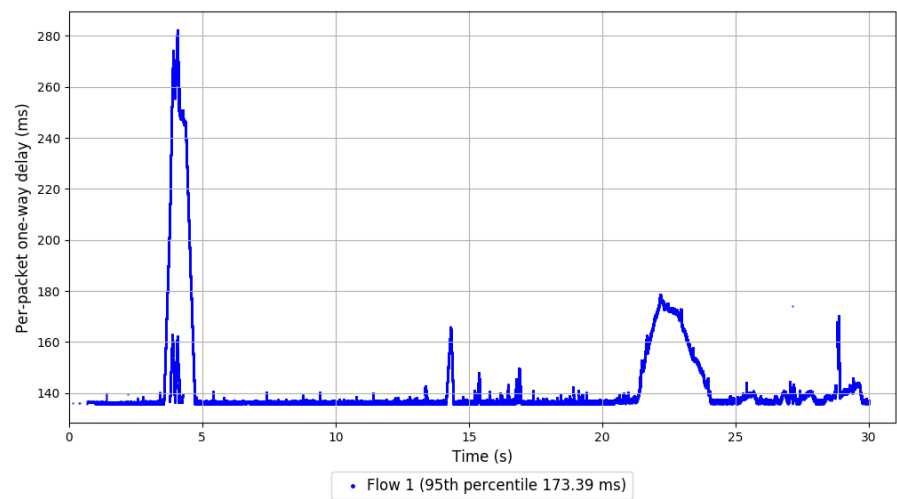
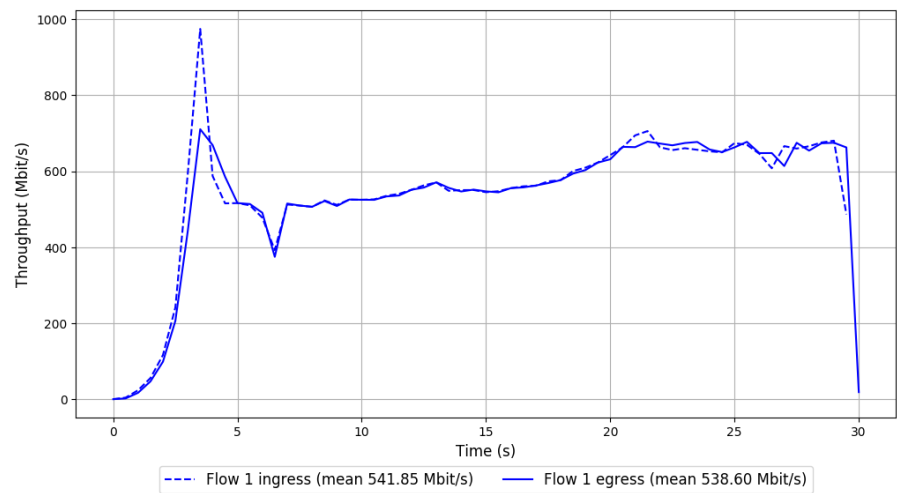
-- Flow 1:

Average throughput: 538.60 Mbit/s

95th percentile per-packet one-way delay: 173.394 ms

Loss rate: 0.60%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-04-24 21:53:25

End at: 2018-04-24 21:53:55

Below is generated by plot.py at 2018-04-25 00:38:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 534.83 Mbit/s

95th percentile per-packet one-way delay: 301.410 ms

Loss rate: 1.74%

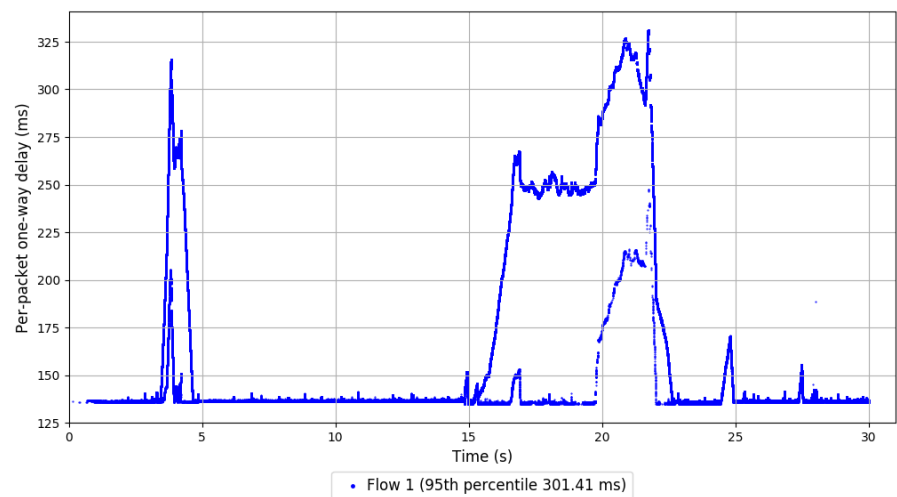
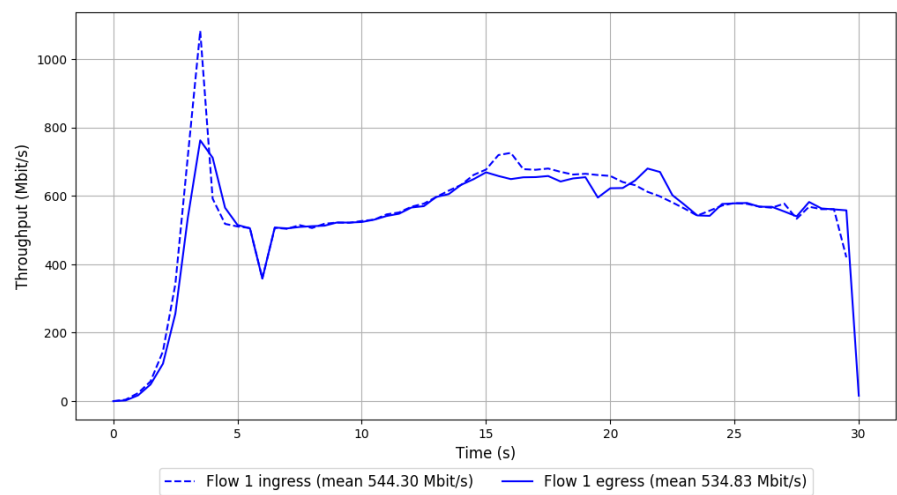
-- Flow 1:

Average throughput: 534.83 Mbit/s

95th percentile per-packet one-way delay: 301.410 ms

Loss rate: 1.74%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-04-24 22:07:54

End at: 2018-04-24 22:08:24

Below is generated by plot.py at 2018-04-25 00:39:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 562.79 Mbit/s

95th percentile per-packet one-way delay: 189.138 ms

Loss rate: 0.69%

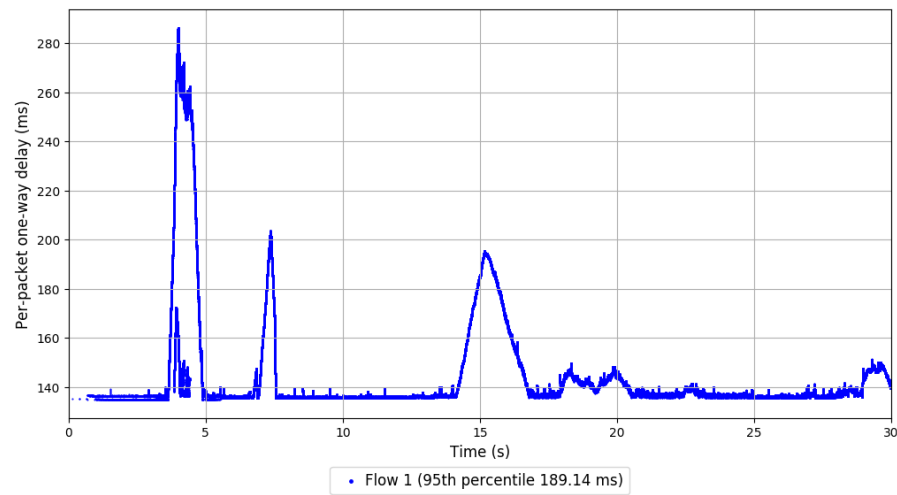
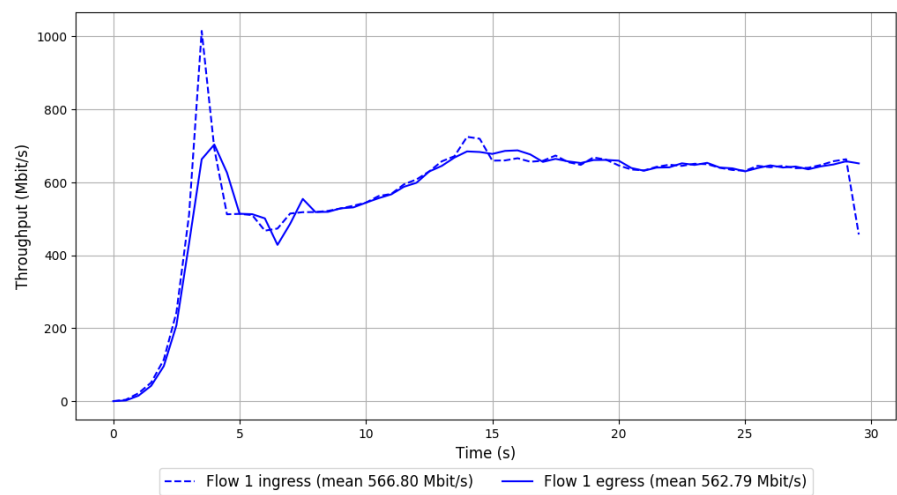
-- Flow 1:

Average throughput: 562.79 Mbit/s

95th percentile per-packet one-way delay: 189.138 ms

Loss rate: 0.69%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-04-24 22:22:31

End at: 2018-04-24 22:23:01

Below is generated by plot.py at 2018-04-25 00:39:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 552.74 Mbit/s

95th percentile per-packet one-way delay: 196.809 ms

Loss rate: 0.93%

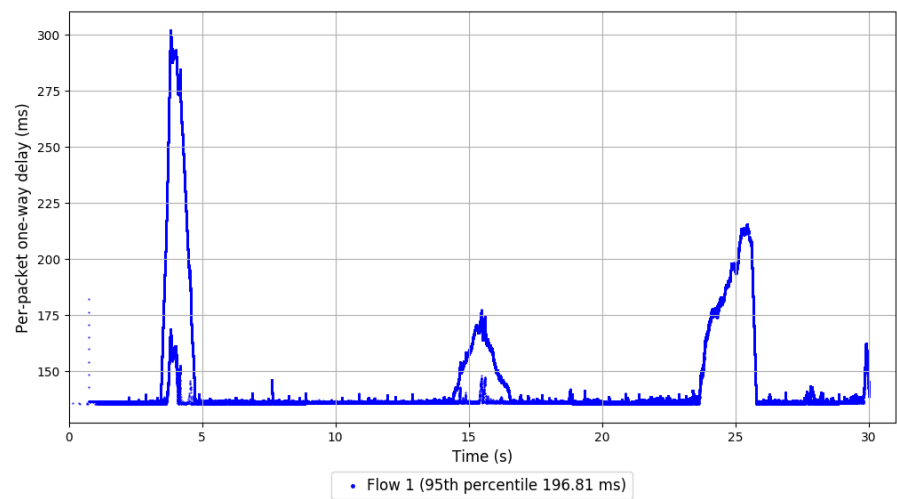
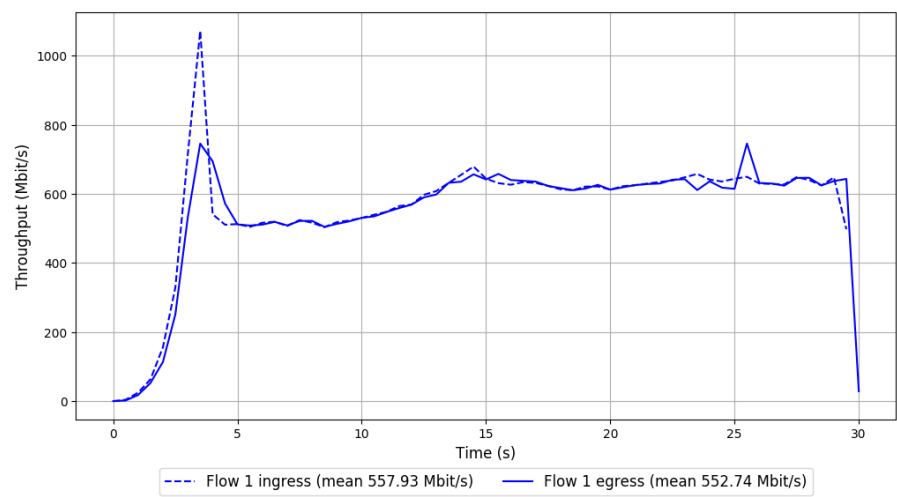
-- Flow 1:

Average throughput: 552.74 Mbit/s

95th percentile per-packet one-way delay: 196.809 ms

Loss rate: 0.93%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-04-24 22:36:54

End at: 2018-04-24 22:37:24

Below is generated by plot.py at 2018-04-25 00:39:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 529.03 Mbit/s

95th percentile per-packet one-way delay: 189.067 ms

Loss rate: 0.73%

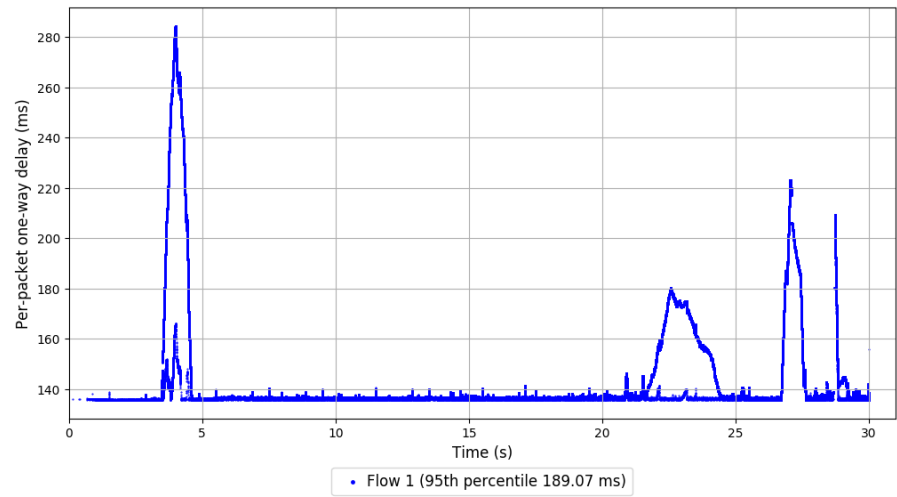
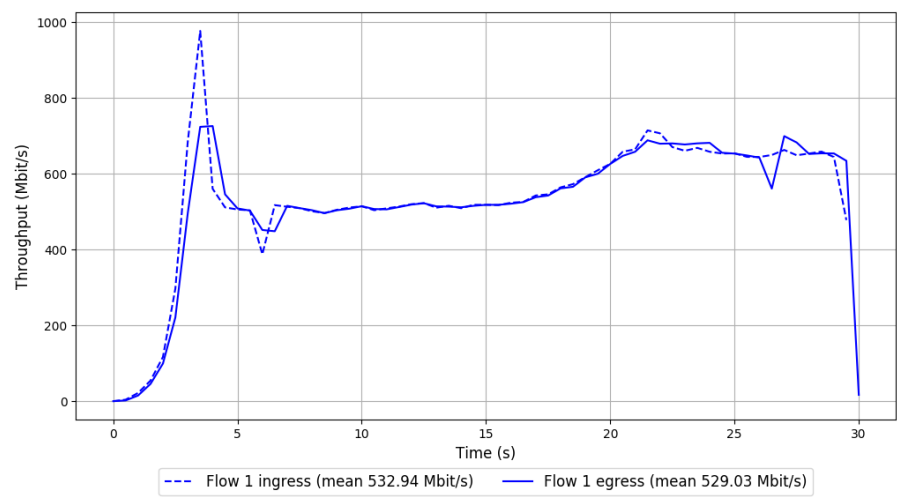
-- Flow 1:

Average throughput: 529.03 Mbit/s

95th percentile per-packet one-way delay: 189.067 ms

Loss rate: 0.73%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-04-24 22:51:27

End at: 2018-04-24 22:51:57

Below is generated by plot.py at 2018-04-25 00:39:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 501.59 Mbit/s

95th percentile per-packet one-way delay: 178.381 ms

Loss rate: 0.84%

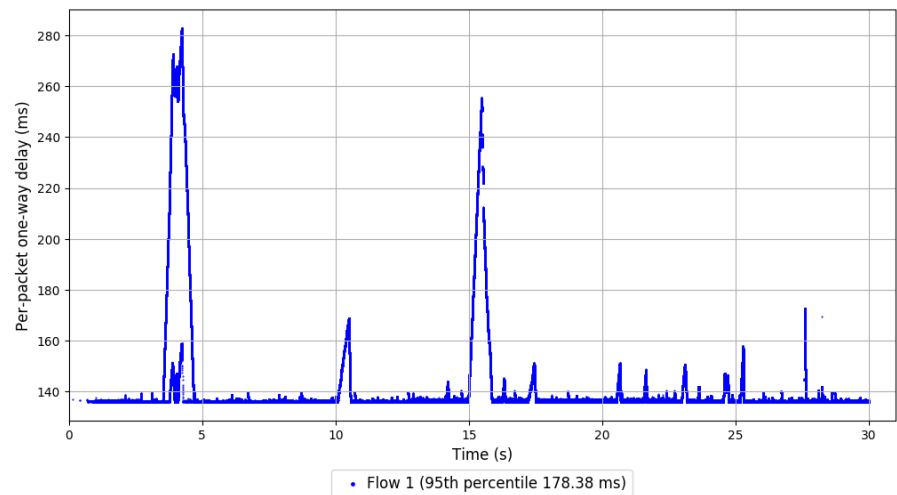
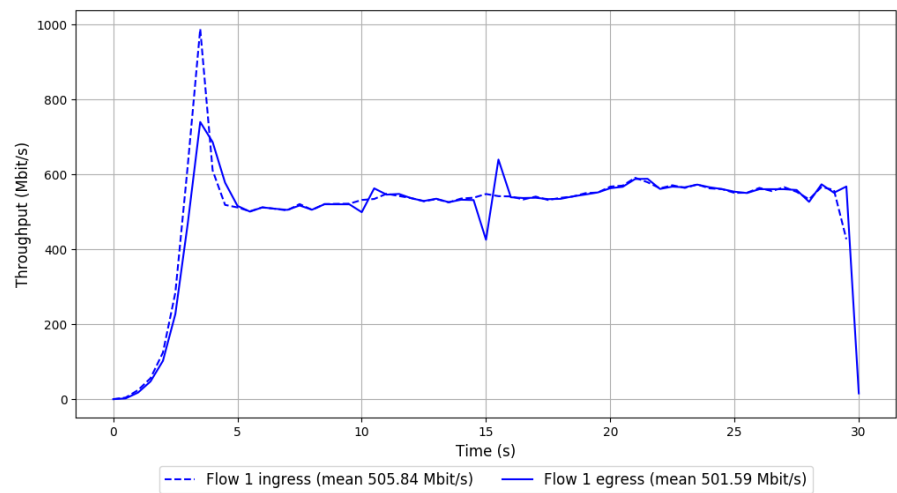
-- Flow 1:

Average throughput: 501.59 Mbit/s

95th percentile per-packet one-way delay: 178.381 ms

Loss rate: 0.84%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-04-24 23:06:01

End at: 2018-04-24 23:06:31

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 556.77 Mbit/s

95th percentile per-packet one-way delay: 185.047 ms

Loss rate: 0.86%

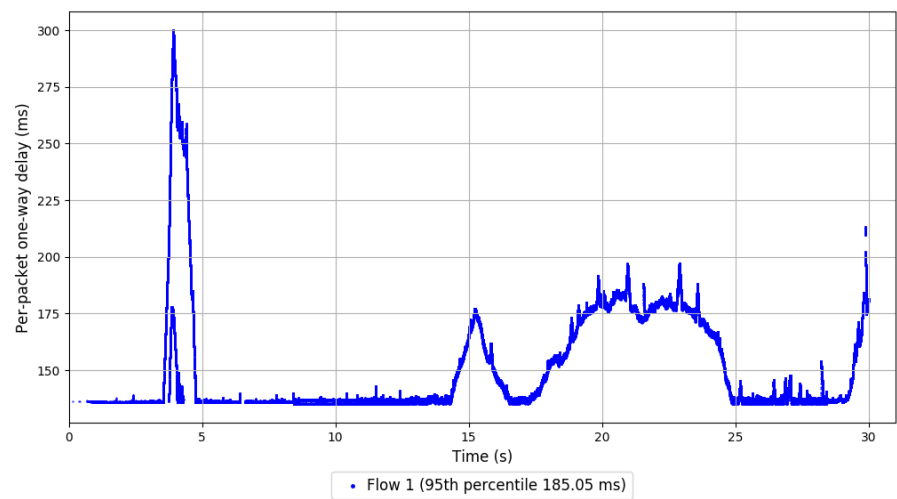
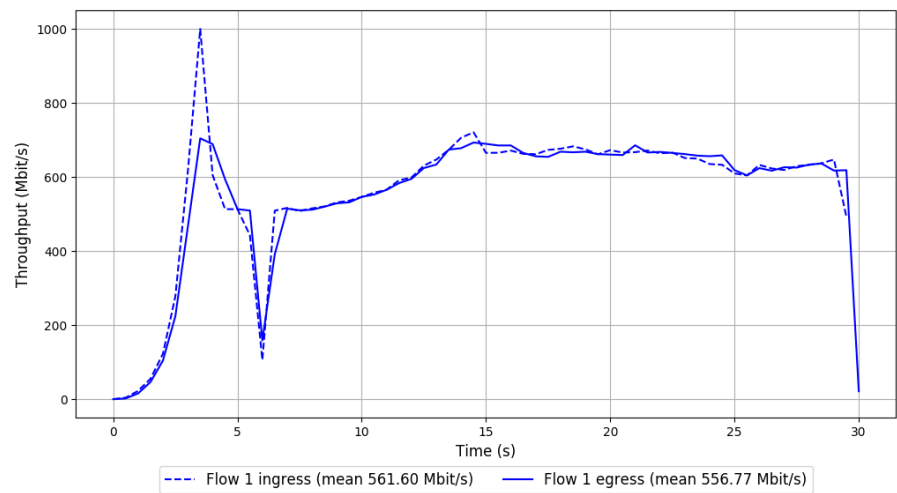
-- Flow 1:

Average throughput: 556.77 Mbit/s

95th percentile per-packet one-way delay: 185.047 ms

Loss rate: 0.86%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-04-24 23:20:36

End at: 2018-04-24 23:21:06

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 517.51 Mbit/s

95th percentile per-packet one-way delay: 215.770 ms

Loss rate: 1.49%

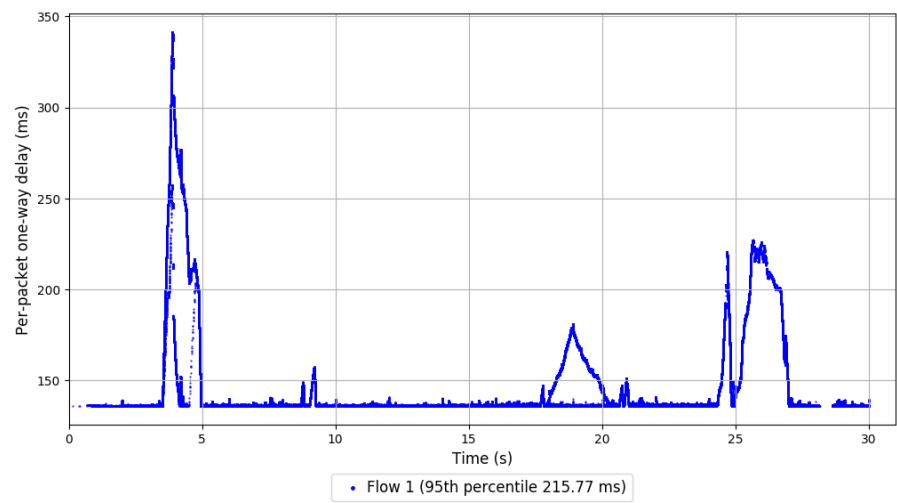
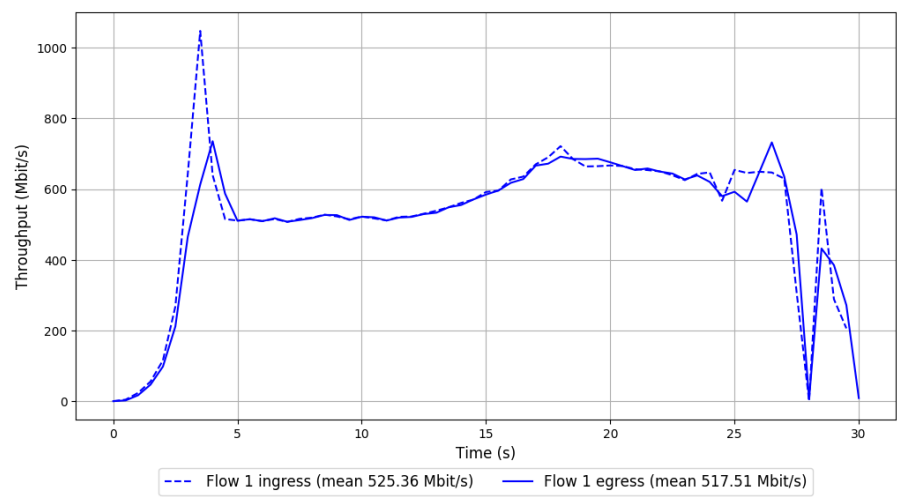
-- Flow 1:

Average throughput: 517.51 Mbit/s

95th percentile per-packet one-way delay: 215.770 ms

Loss rate: 1.49%

Run 10: Report of PCC-Allegro — Data Link

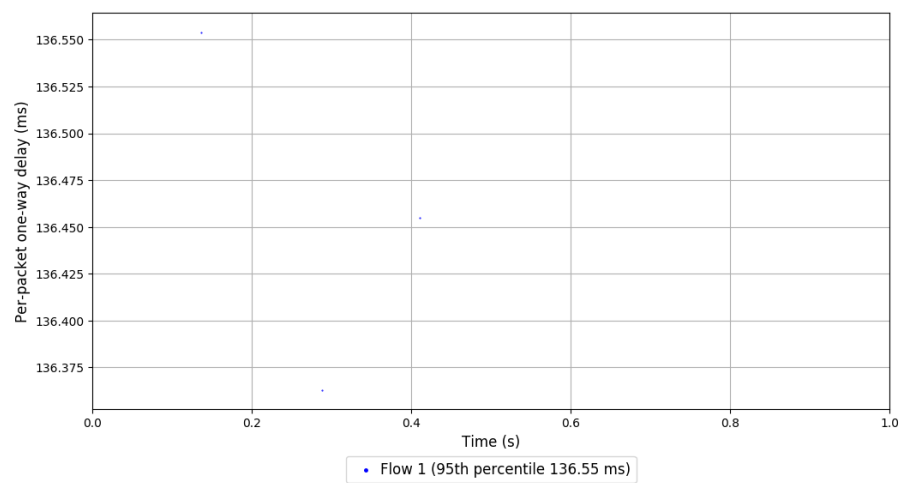
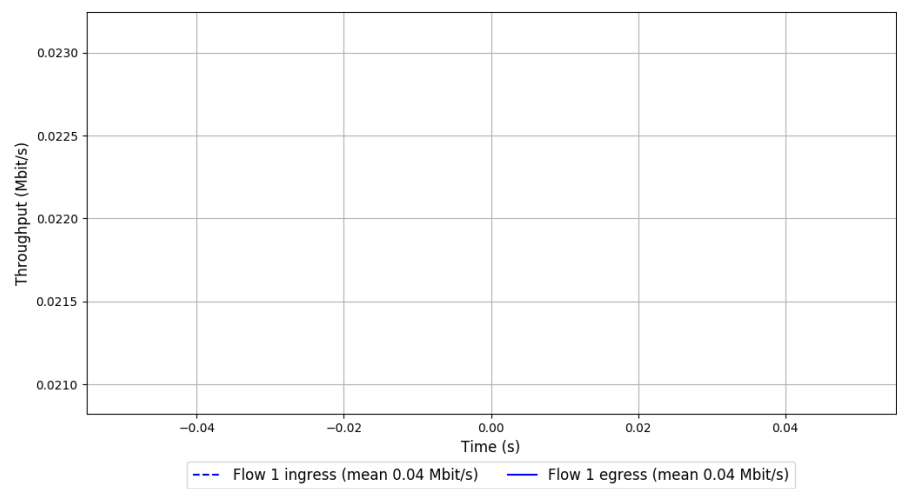


Run 1: Statistics of QUIC Cubic

Start at: 2018-04-24 21:11:55

End at: 2018-04-24 21:12:25

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-24 21:26:28

End at: 2018-04-24 21:26:58

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.67 Mbit/s

95th percentile per-packet one-way delay: 136.697 ms

Loss rate: 0.00%

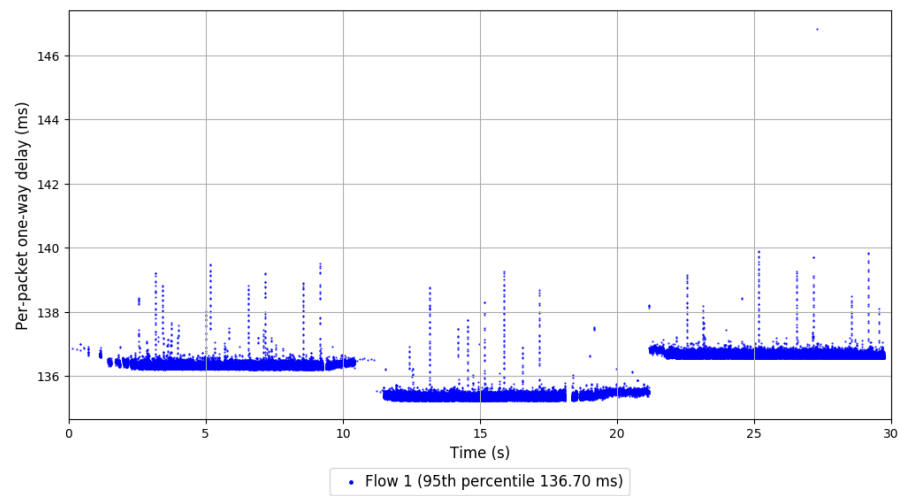
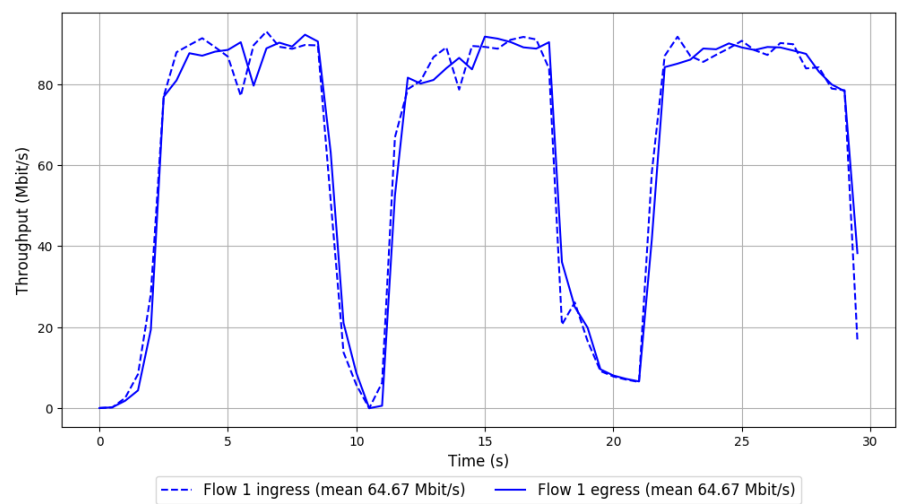
-- Flow 1:

Average throughput: 64.67 Mbit/s

95th percentile per-packet one-way delay: 136.697 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-24 21:40:39

End at: 2018-04-24 21:41:09

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.30 Mbit/s

95th percentile per-packet one-way delay: 136.412 ms

Loss rate: 0.00%

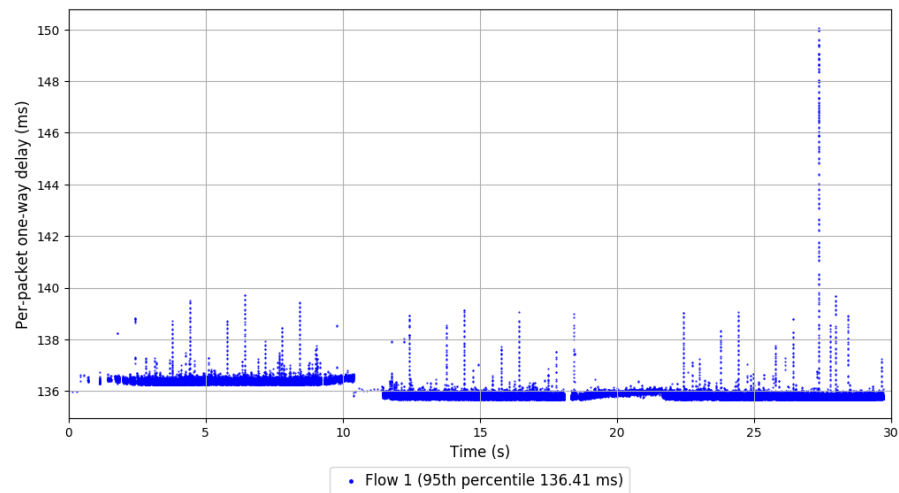
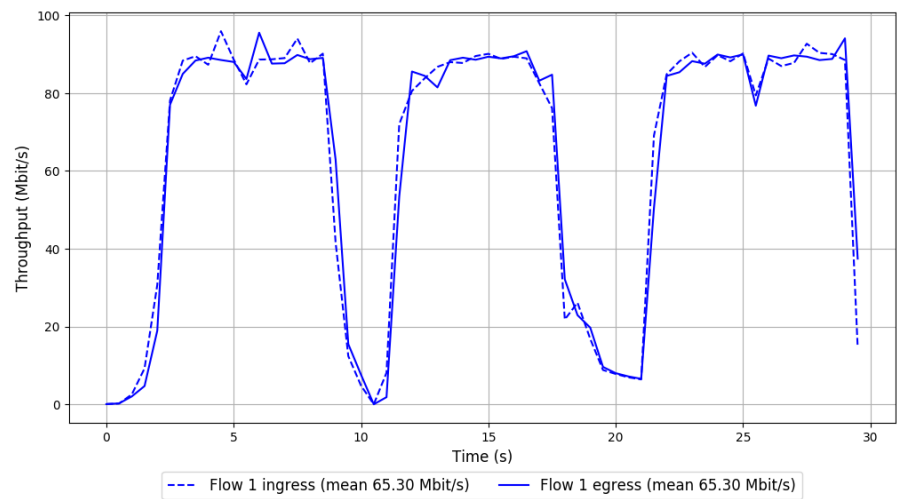
-- Flow 1:

Average throughput: 65.30 Mbit/s

95th percentile per-packet one-way delay: 136.412 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-24 21:55:15

End at: 2018-04-24 21:55:45

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.19 Mbit/s

95th percentile per-packet one-way delay: 136.515 ms

Loss rate: 0.00%

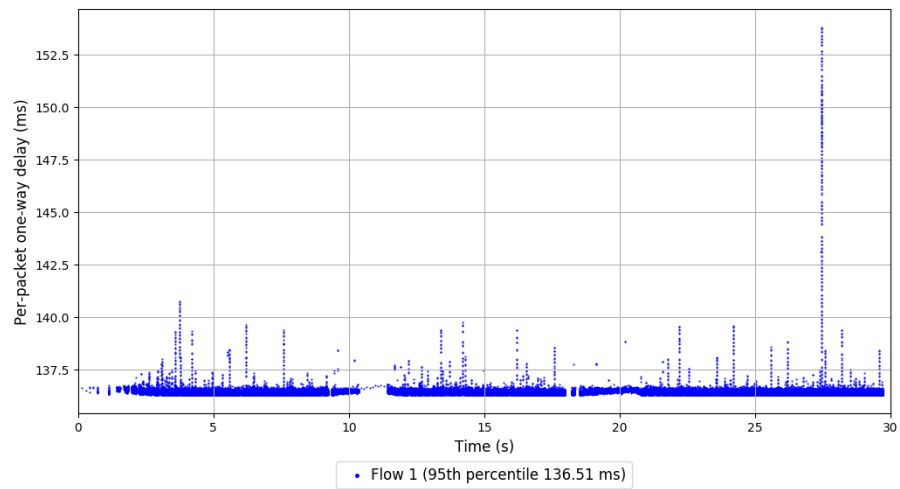
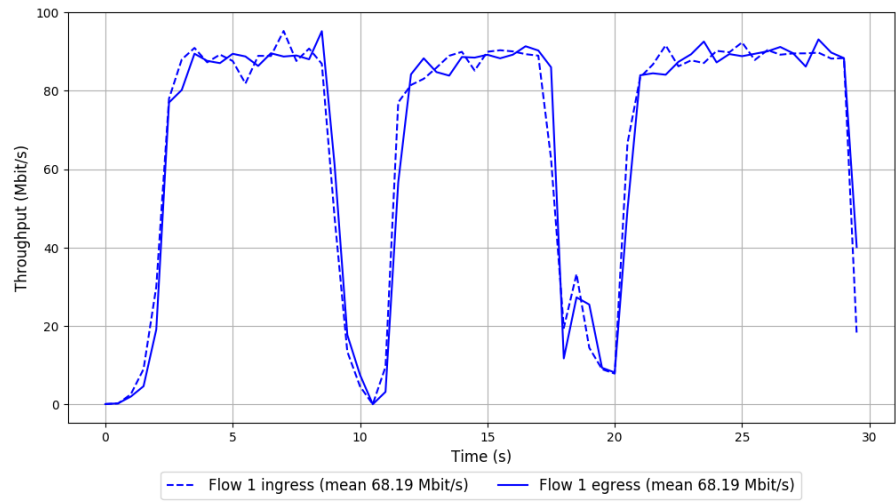
-- Flow 1:

Average throughput: 68.19 Mbit/s

95th percentile per-packet one-way delay: 136.515 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-24 22:09:48

End at: 2018-04-24 22:10:18

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.29 Mbit/s

95th percentile per-packet one-way delay: 134.922 ms

Loss rate: 0.00%

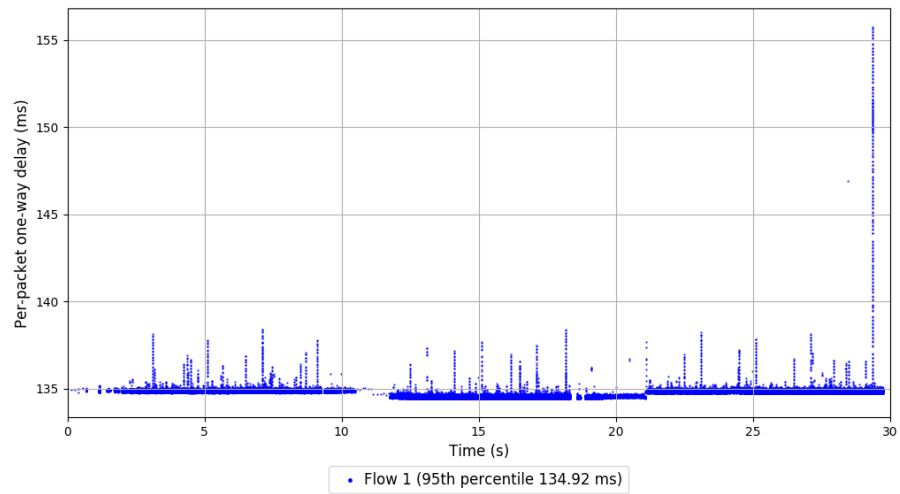
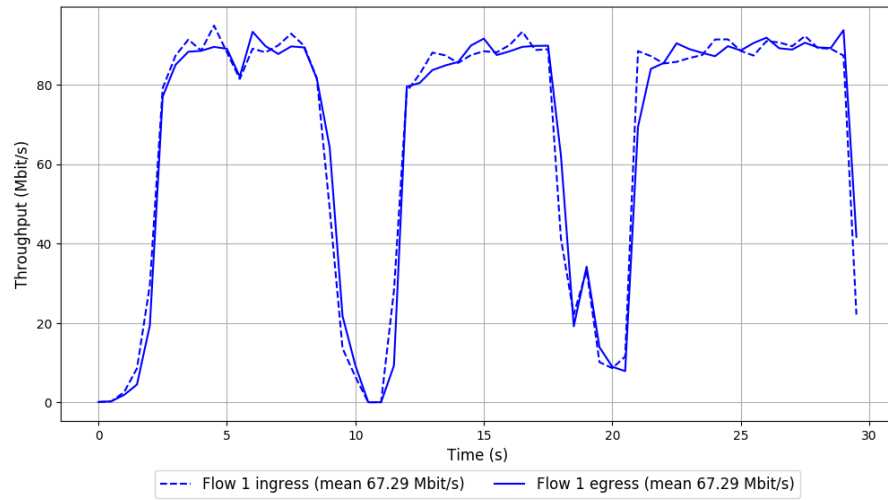
-- Flow 1:

Average throughput: 67.29 Mbit/s

95th percentile per-packet one-way delay: 134.922 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-24 22:24:26

End at: 2018-04-24 22:24:56

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.64 Mbit/s

95th percentile per-packet one-way delay: 135.889 ms

Loss rate: 0.00%

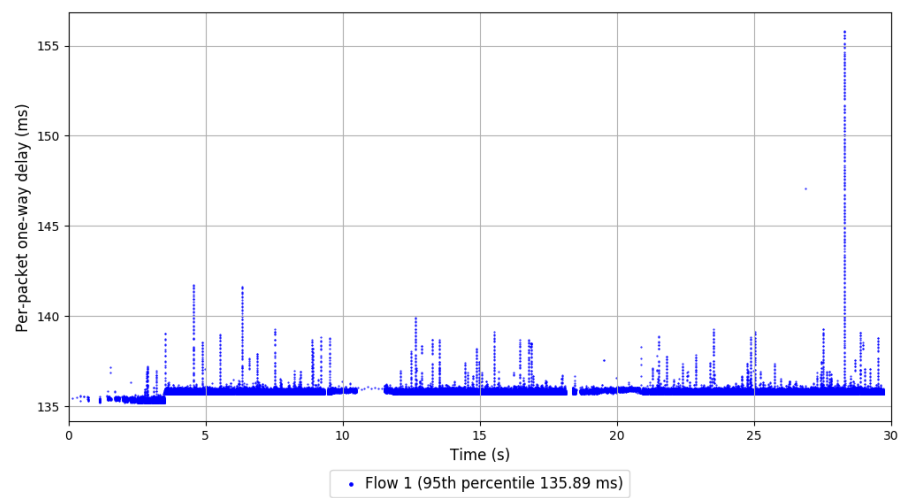
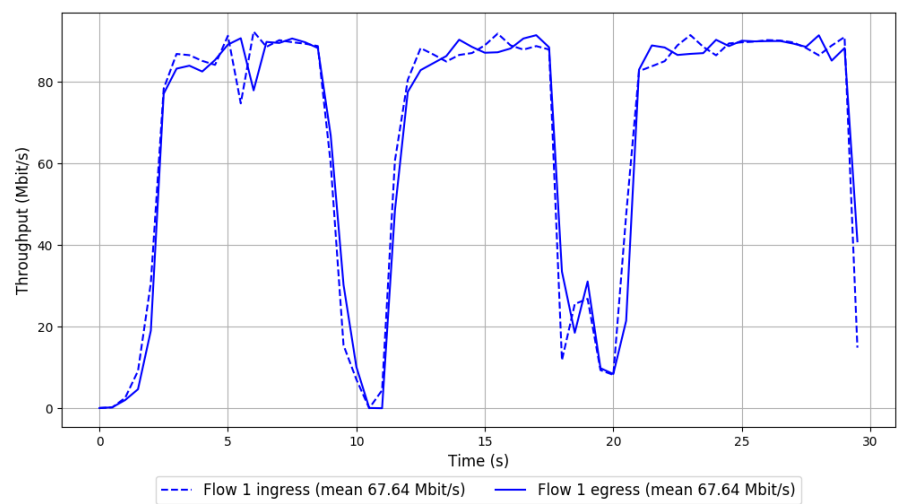
-- Flow 1:

Average throughput: 67.64 Mbit/s

95th percentile per-packet one-way delay: 135.889 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-24 22:38:48

End at: 2018-04-24 22:39:18

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.55 Mbit/s

95th percentile per-packet one-way delay: 135.815 ms

Loss rate: 0.00%

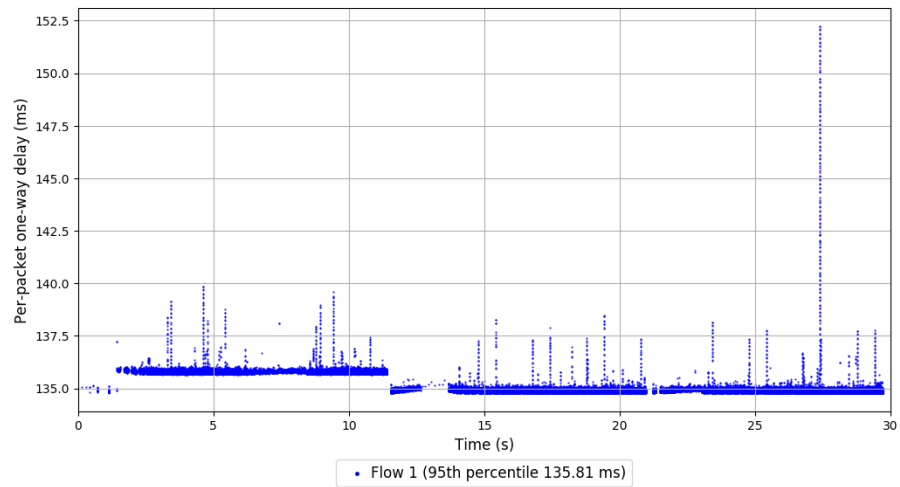
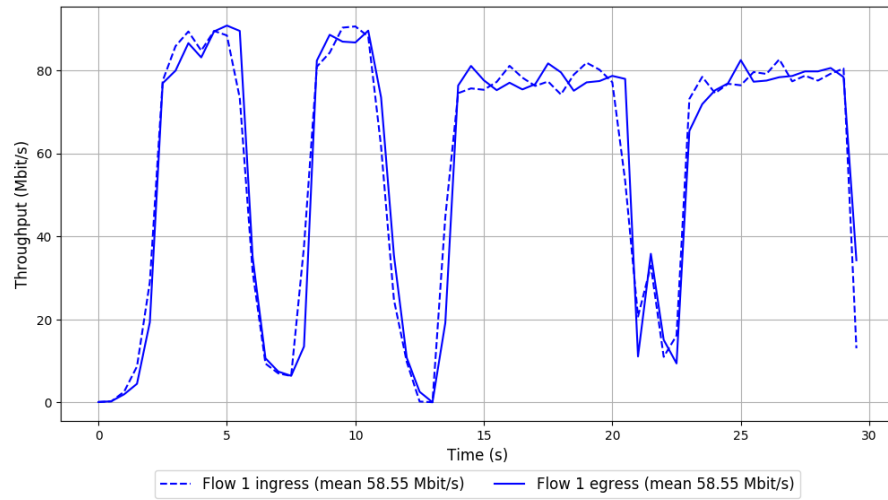
-- Flow 1:

Average throughput: 58.55 Mbit/s

95th percentile per-packet one-way delay: 135.815 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-24 22:53:22

End at: 2018-04-24 22:53:52

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.49 Mbit/s

95th percentile per-packet one-way delay: 135.908 ms

Loss rate: 0.00%

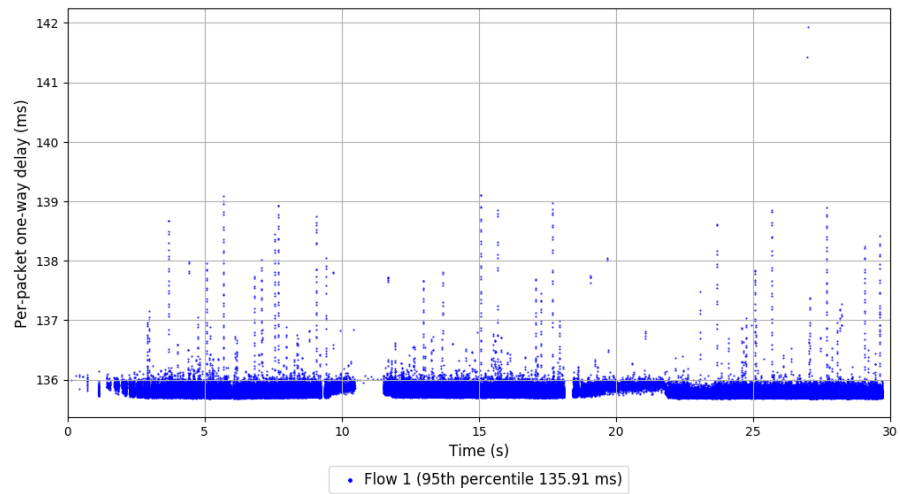
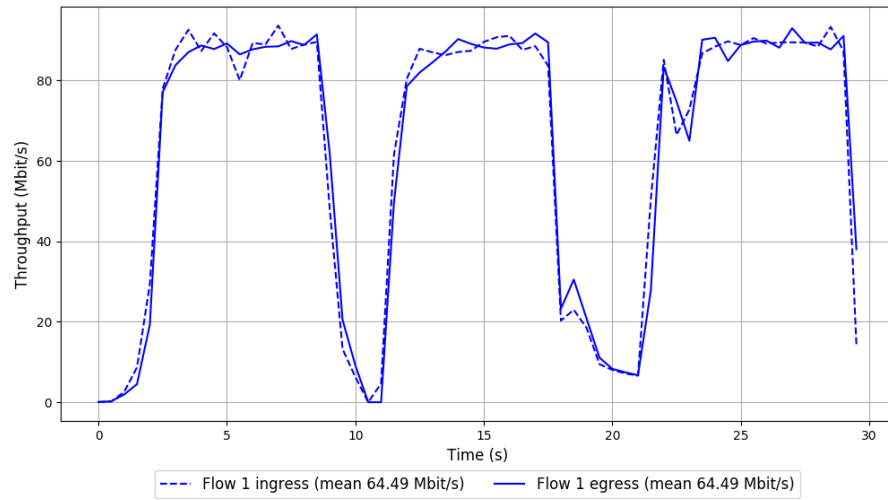
-- Flow 1:

Average throughput: 64.49 Mbit/s

95th percentile per-packet one-way delay: 135.908 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-24 23:07:56

End at: 2018-04-24 23:08:26

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.54 Mbit/s

95th percentile per-packet one-way delay: 136.478 ms

Loss rate: 0.00%

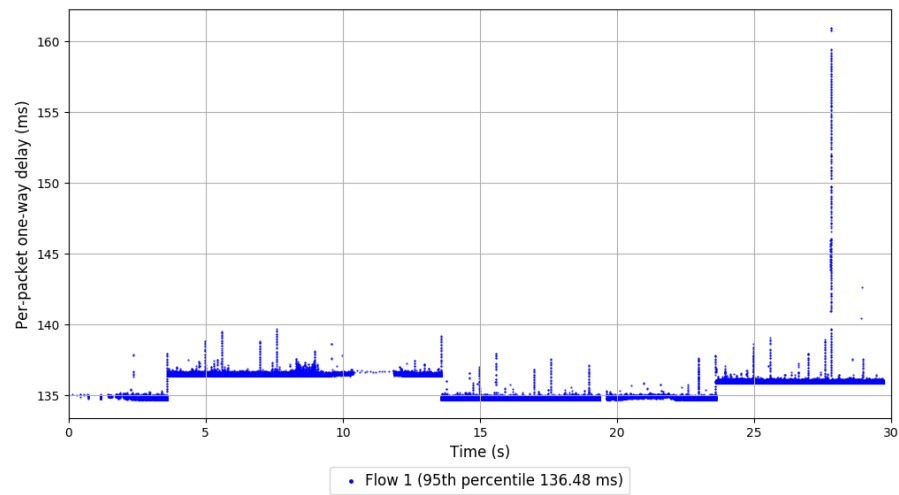
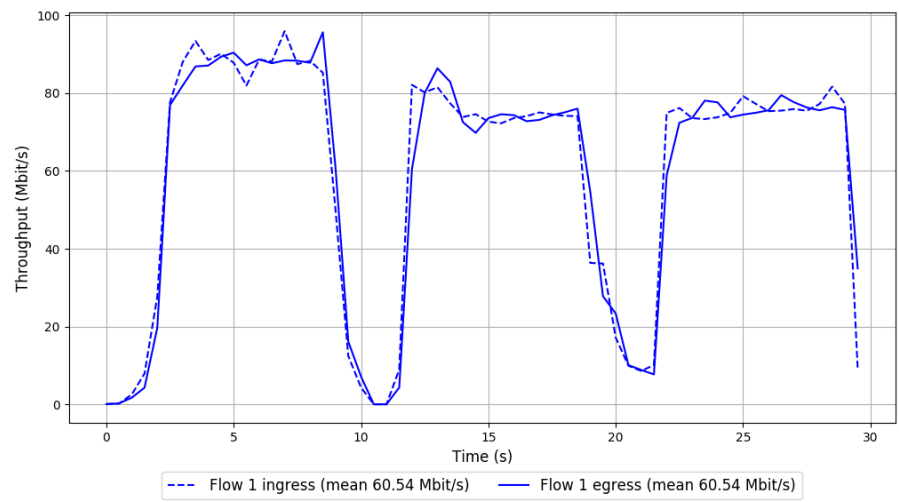
-- Flow 1:

Average throughput: 60.54 Mbit/s

95th percentile per-packet one-way delay: 136.478 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

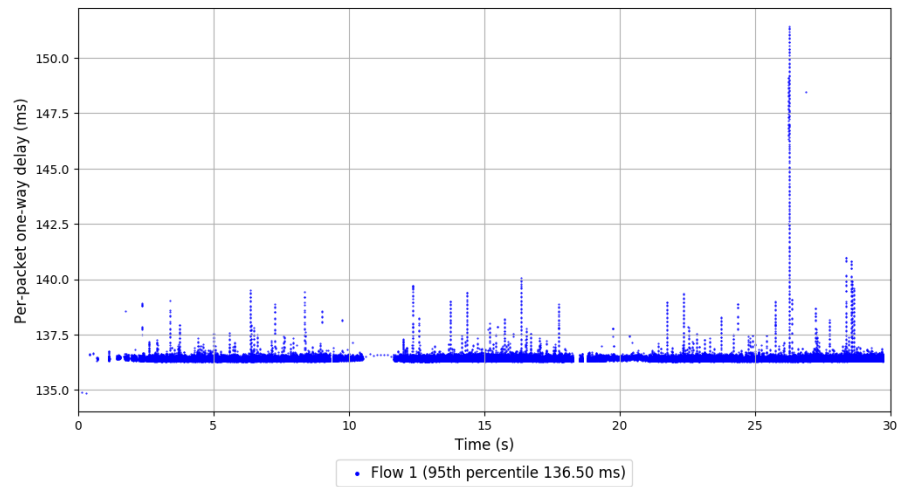
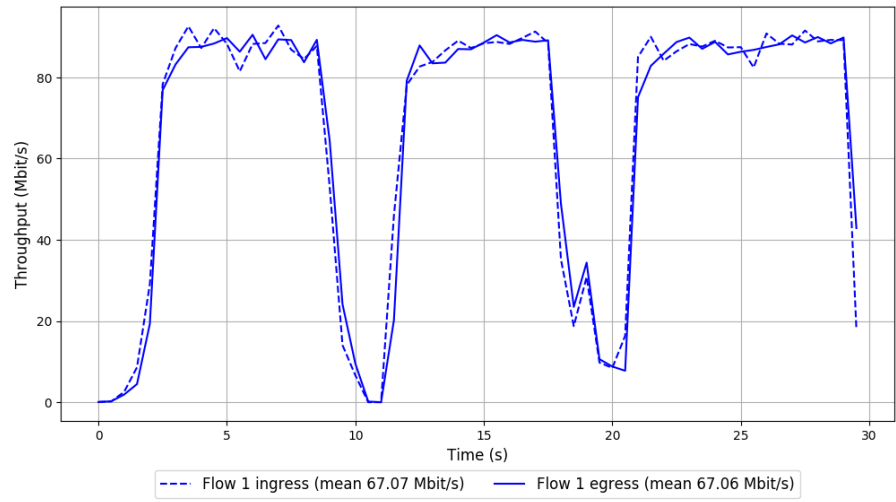


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-04-24 23:22:29
End at: 2018-04-24 23:22:59

# Below is generated by plot.py at 2018-04-25 00:47:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.06 Mbit/s
95th percentile per-packet one-way delay: 136.501 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 67.06 Mbit/s
95th percentile per-packet one-way delay: 136.501 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

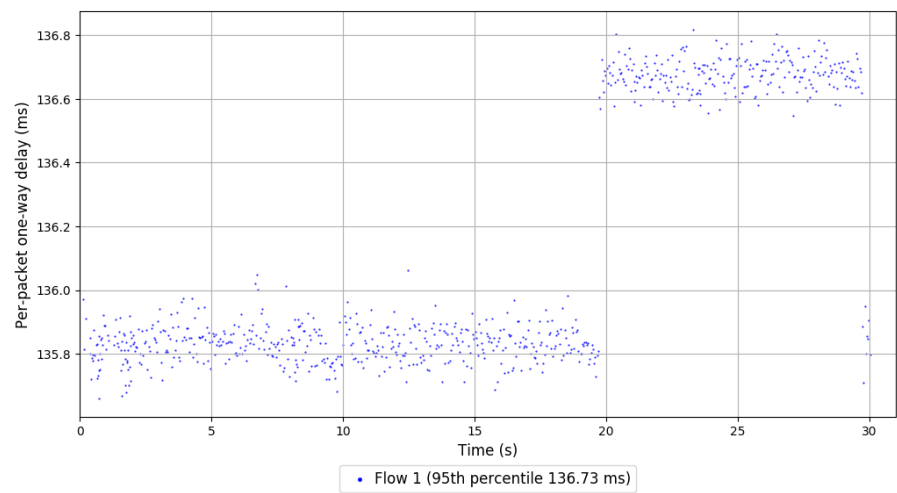
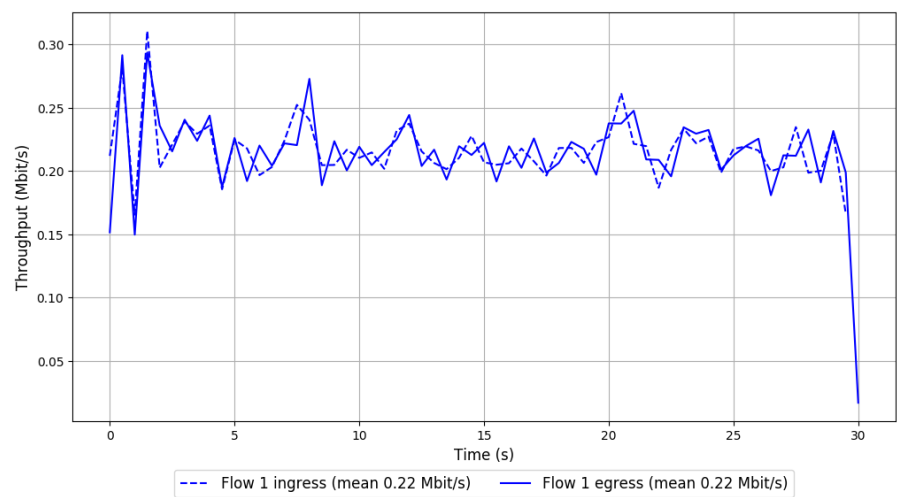


```
Run 1: Statistics of SCReAM

Start at: 2018-04-24 21:07:10
End at: 2018-04-24 21:07:40

# Below is generated by plot.py at 2018-04-25 00:47:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.726 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.726 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

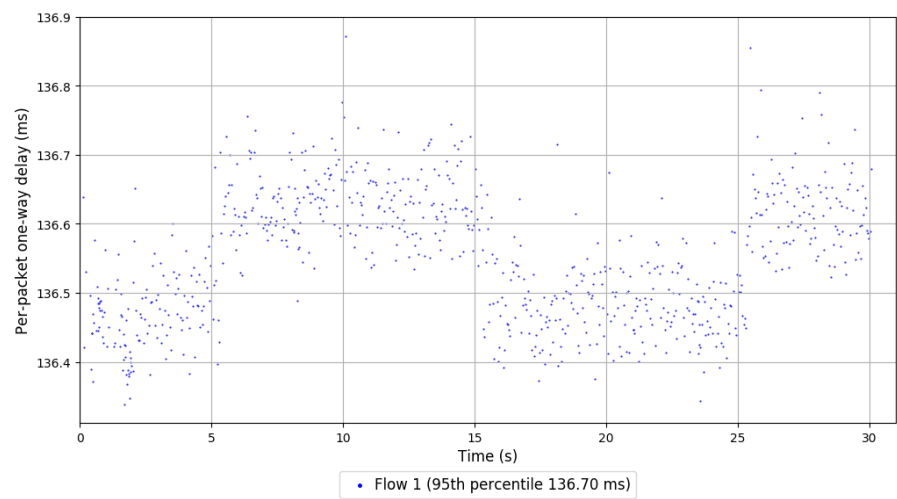
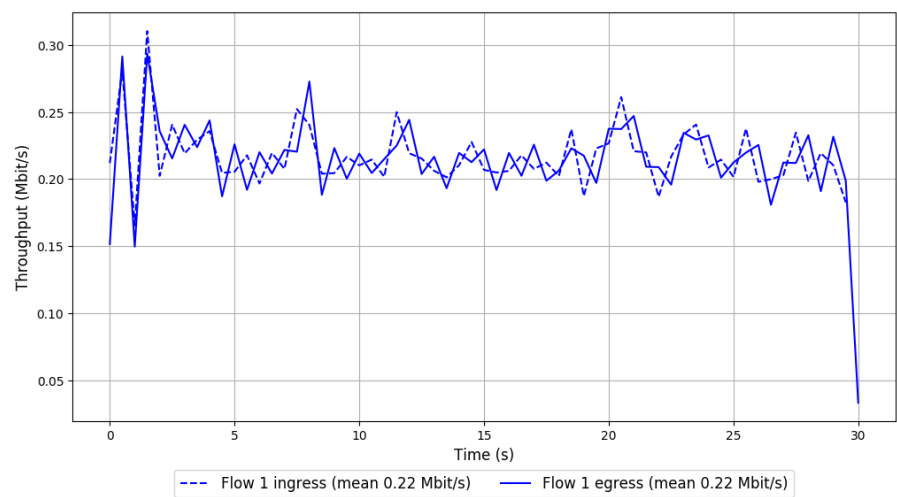


```
Run 2: Statistics of SCReAM

Start at: 2018-04-24 21:21:24
End at: 2018-04-24 21:21:54

# Below is generated by plot.py at 2018-04-25 00:47:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.700 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.700 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-04-24 21:35:55

End at: 2018-04-24 21:36:25

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.889 ms

Loss rate: 0.00%

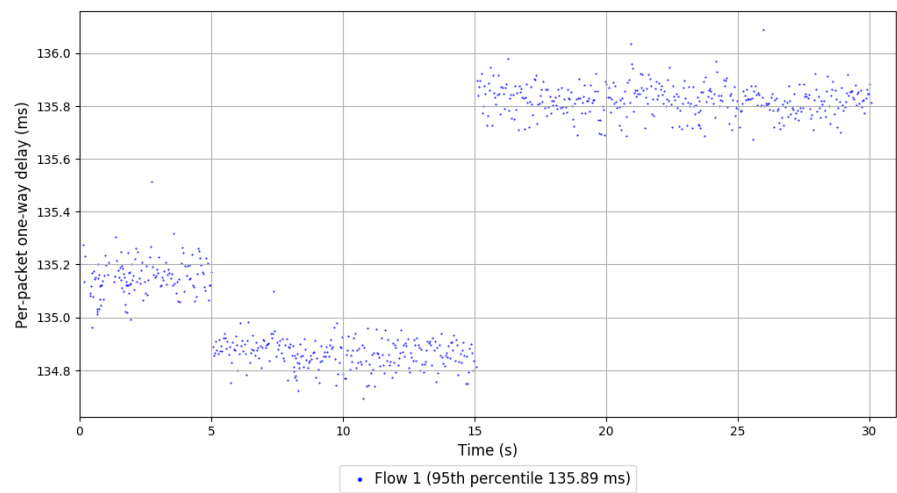
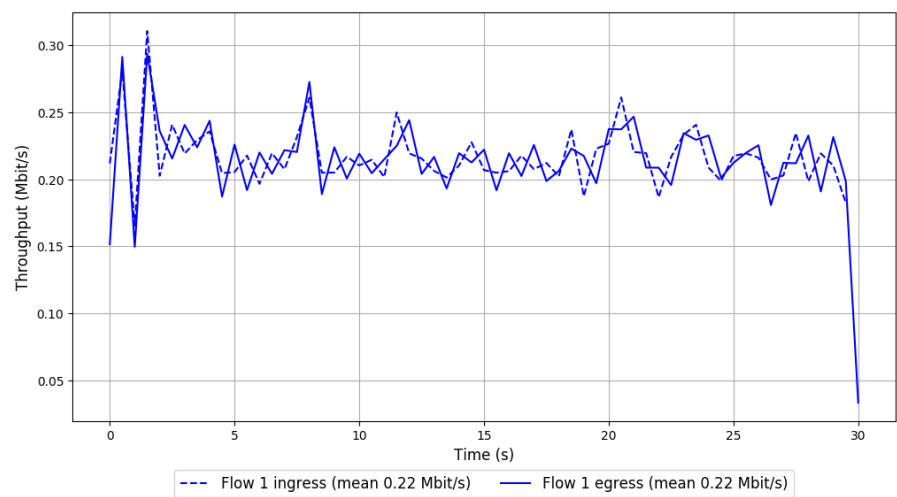
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.889 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-04-24 21:50:16

End at: 2018-04-24 21:50:46

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

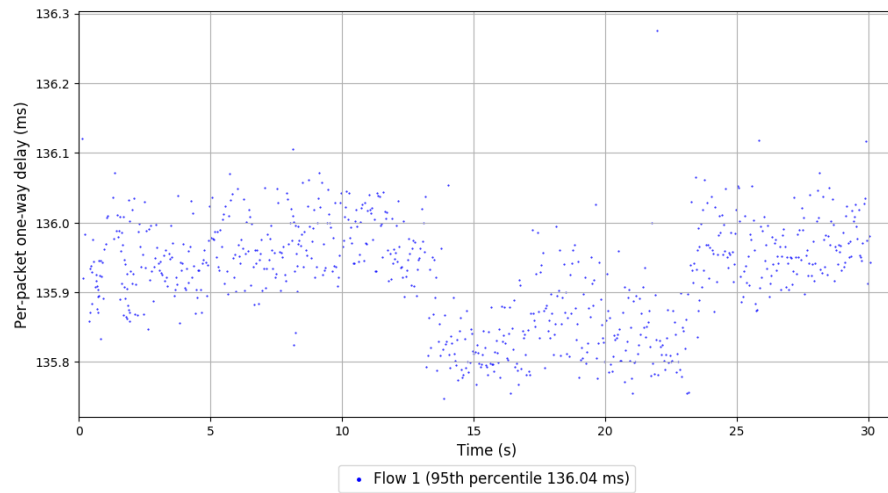
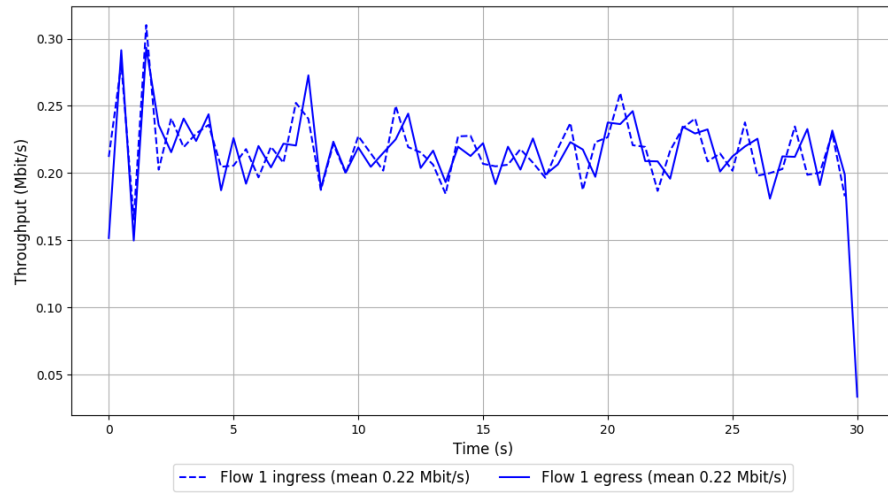
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-04-24 22:04:46

End at: 2018-04-24 22:05:16

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.475 ms

Loss rate: 0.00%

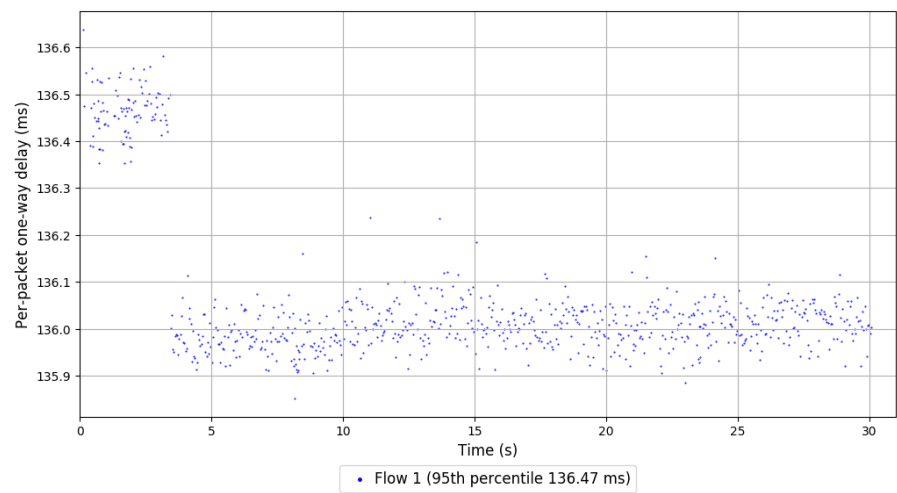
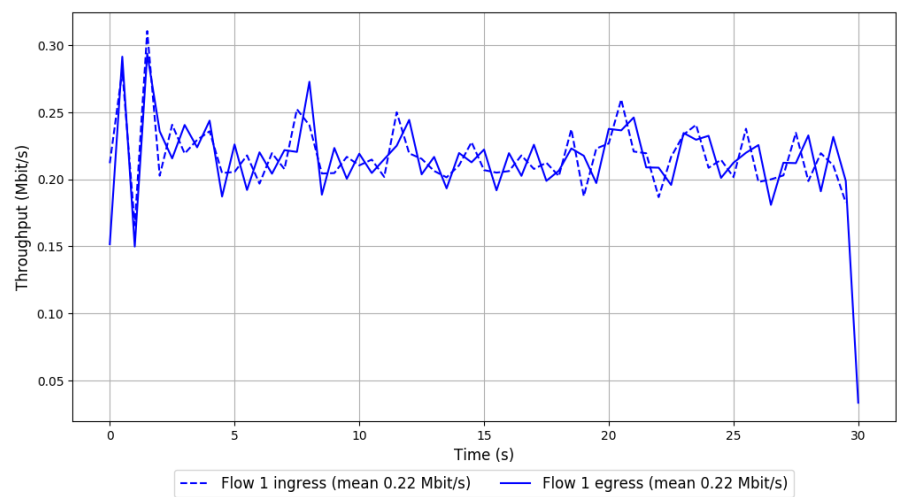
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.475 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-04-24 22:19:23

End at: 2018-04-24 22:19:53

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.029 ms

Loss rate: 0.00%

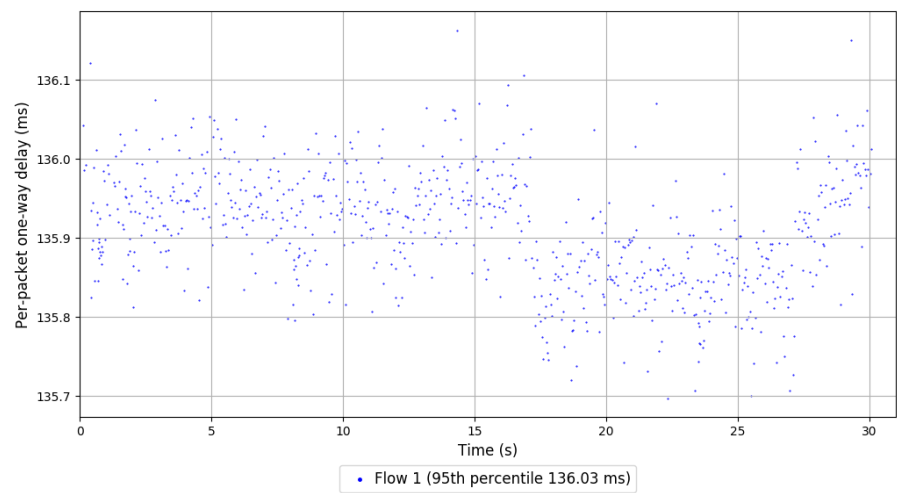
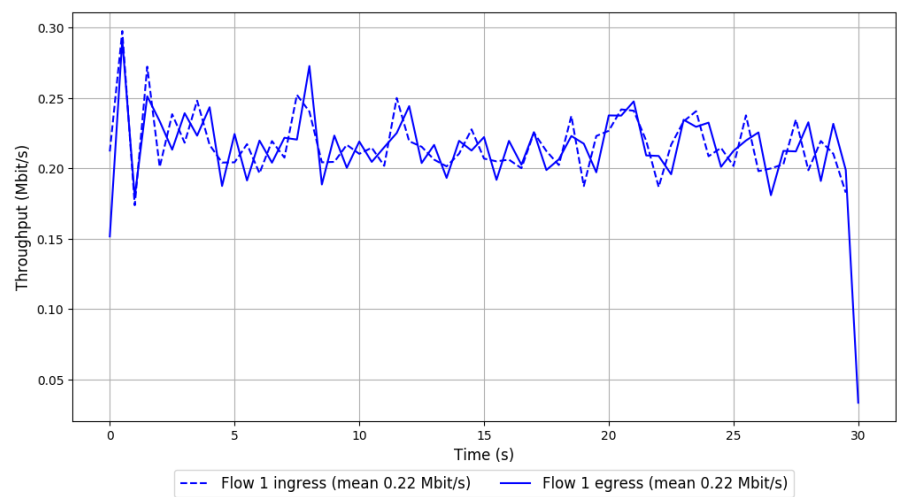
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.029 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-04-24 22:34:04

End at: 2018-04-24 22:34:35

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.913 ms

Loss rate: 0.00%

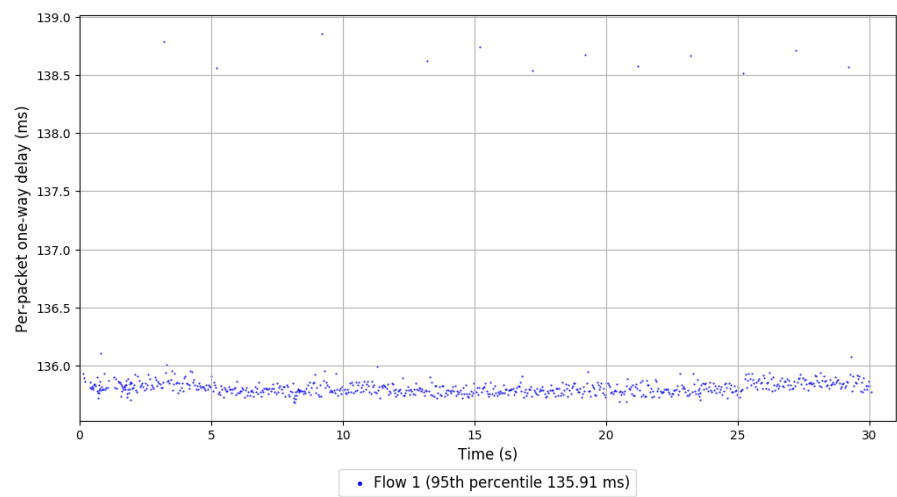
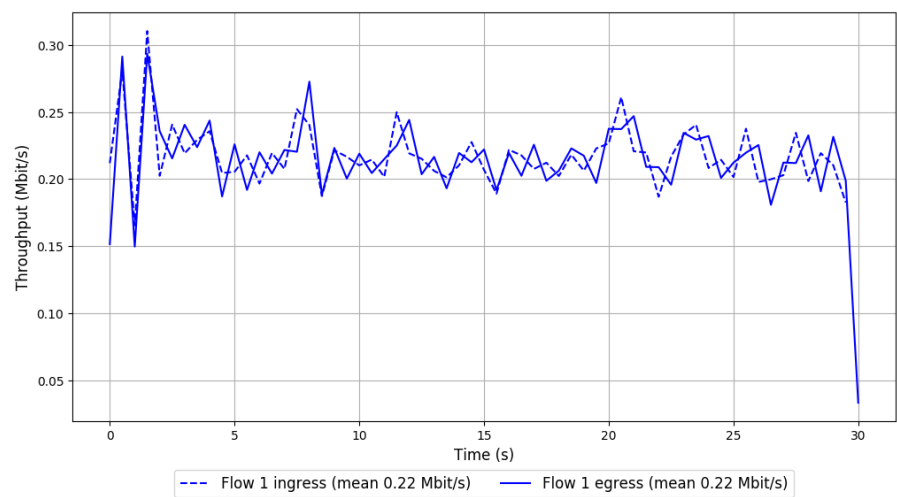
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.913 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-04-24 22:48:19

End at: 2018-04-24 22:48:49

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

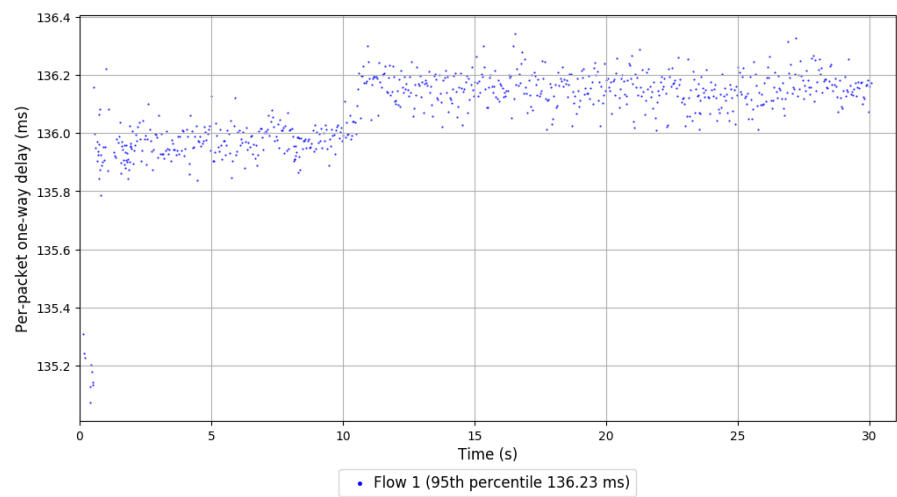
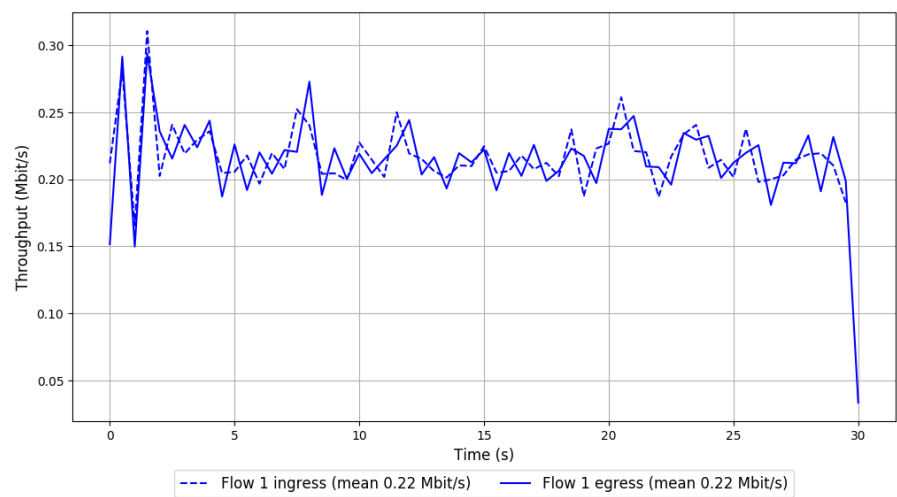
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-04-24 23:02:52

End at: 2018-04-24 23:03:22

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.801 ms

Loss rate: 0.00%

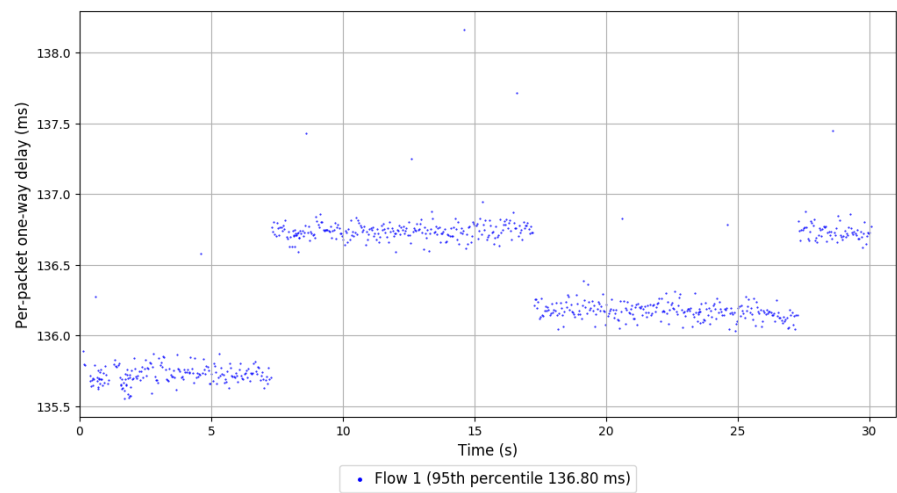
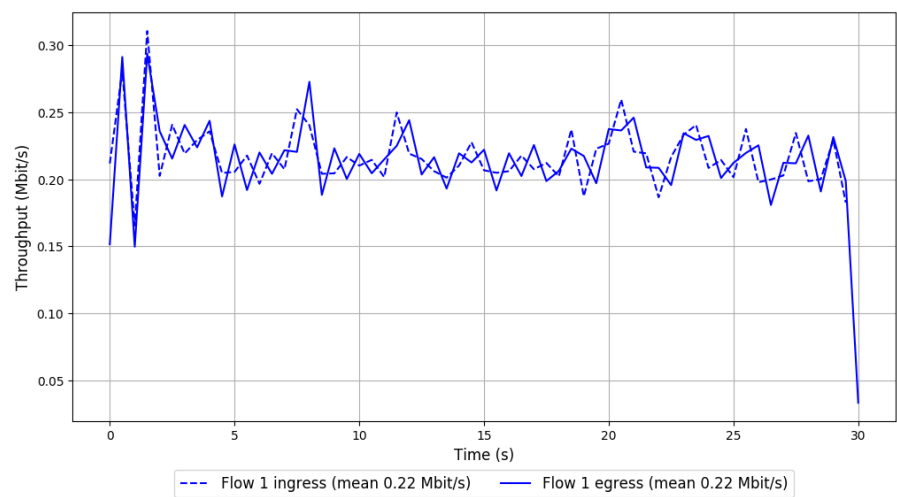
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.801 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-04-24 23:17:27

End at: 2018-04-24 23:17:57

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

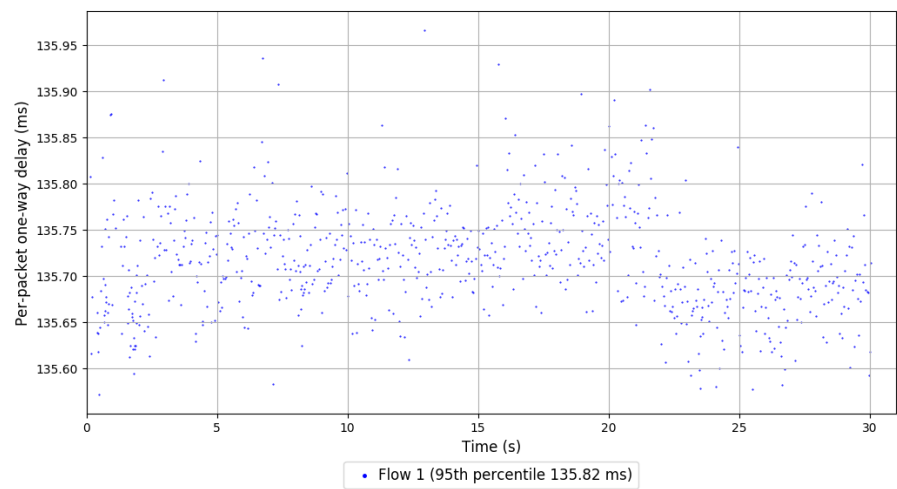
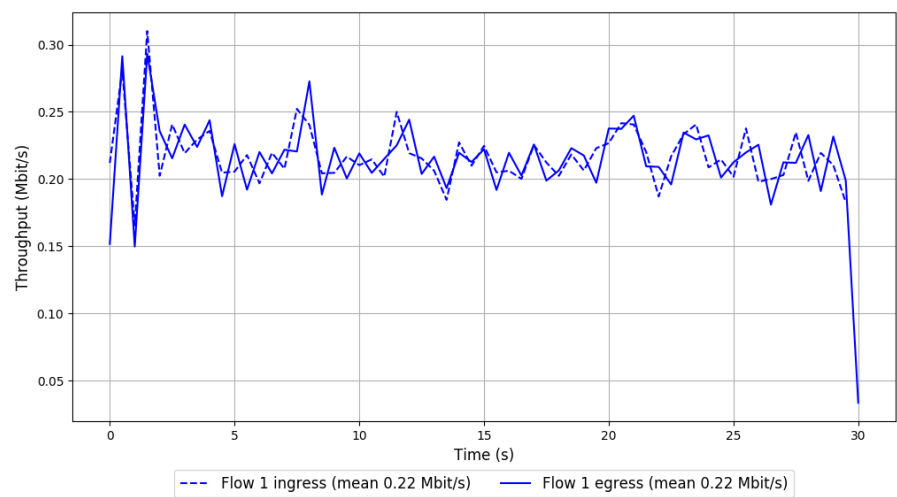
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

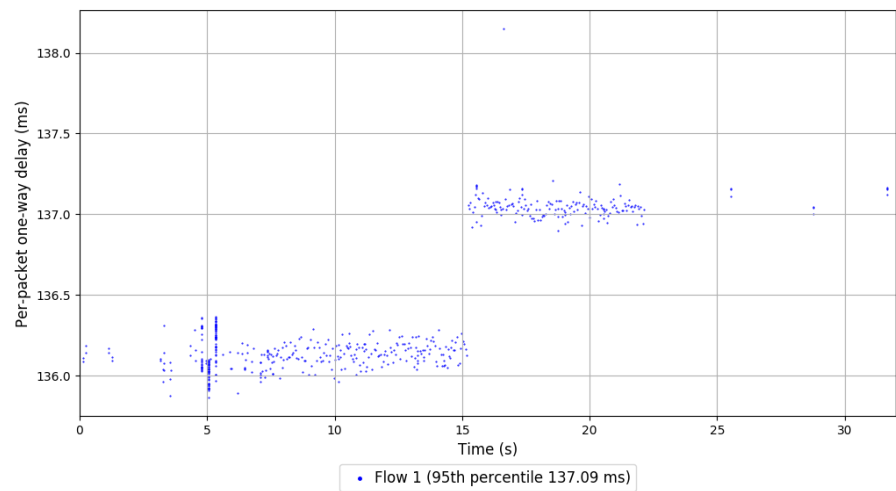
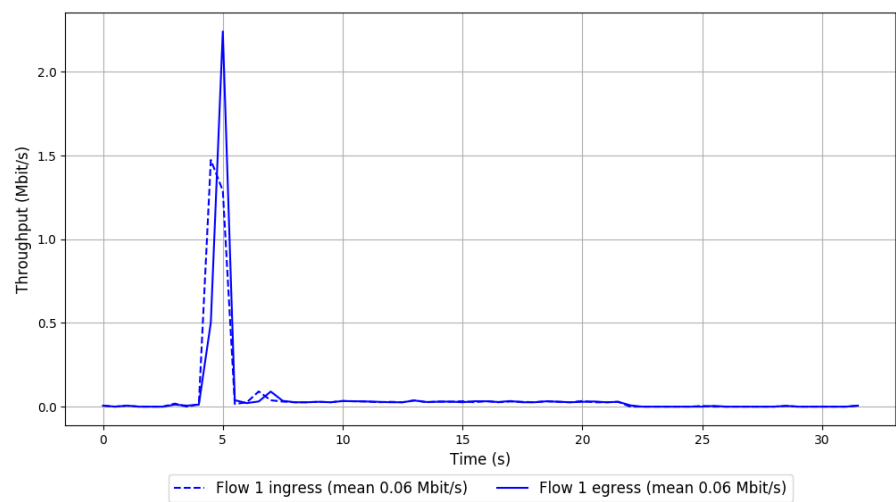


```
Run 1: Statistics of WebRTC media

Start at: 2018-04-24 21:12:37
End at: 2018-04-24 21:13:07

# Below is generated by plot.py at 2018-04-25 00:47:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 137.095 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 137.095 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-04-24 21:27:15

End at: 2018-04-24 21:27:45

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.738 ms

Loss rate: 0.00%

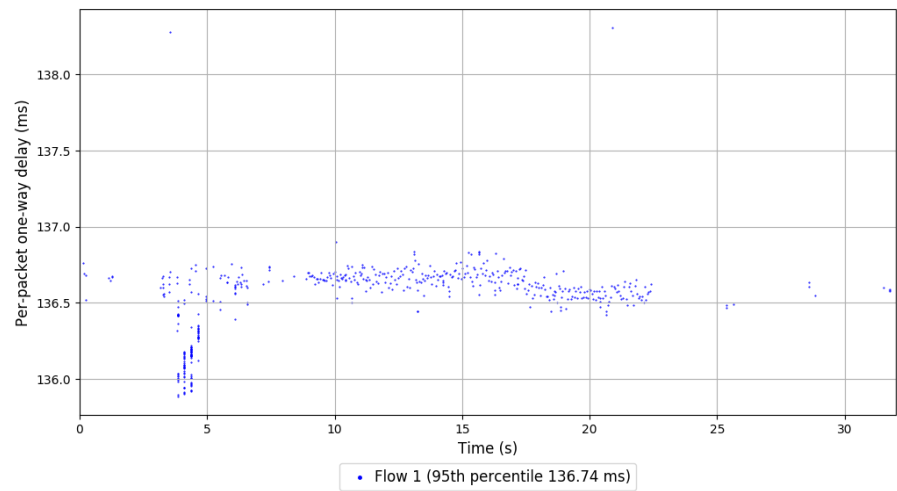
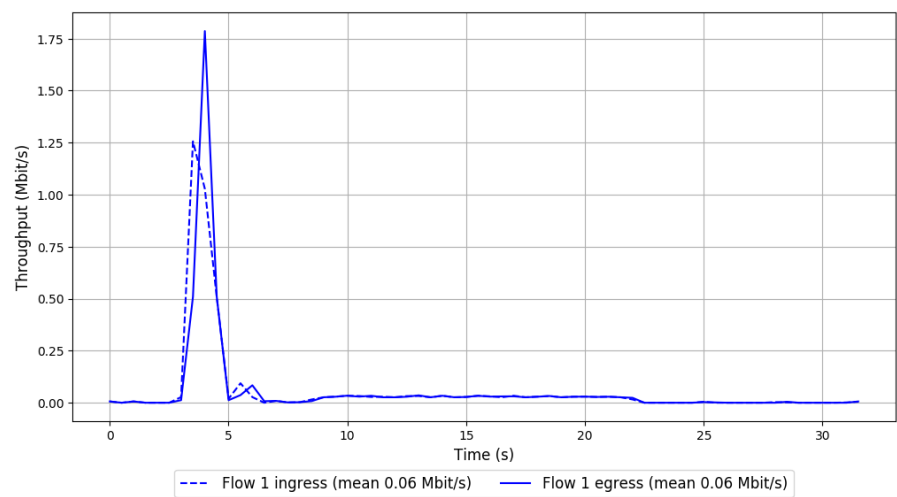
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.738 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-24 21:41:26

End at: 2018-04-24 21:41:56

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.728 ms

Loss rate: 0.00%

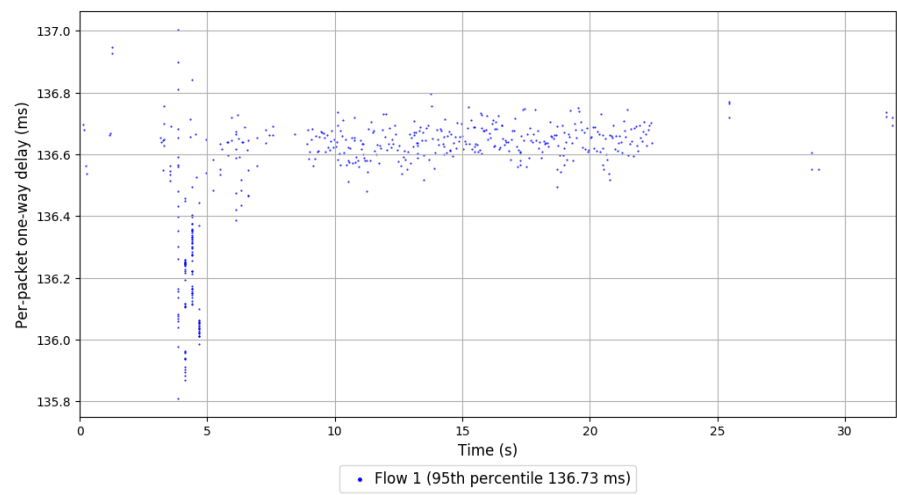
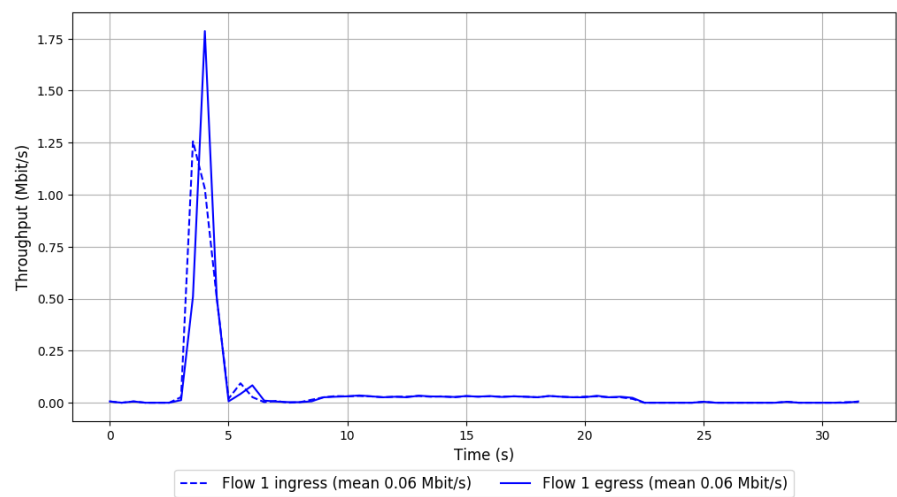
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.728 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-04-24 21:56:02

End at: 2018-04-24 21:56:32

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.033 ms

Loss rate: 0.00%

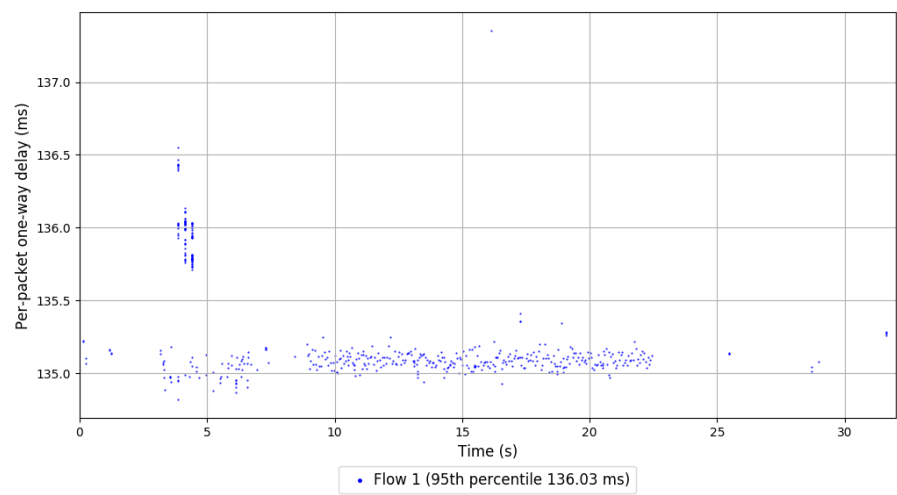
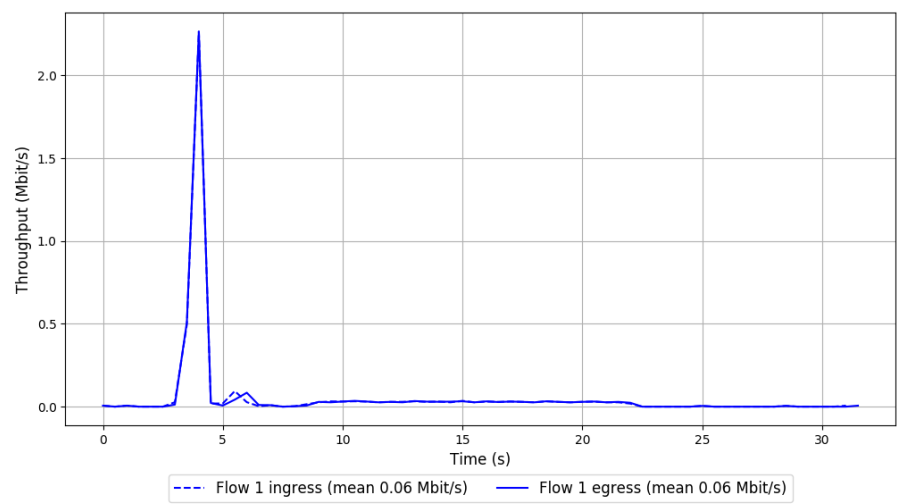
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.033 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-24 22:10:35

End at: 2018-04-24 22:11:05

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.801 ms

Loss rate: 0.00%

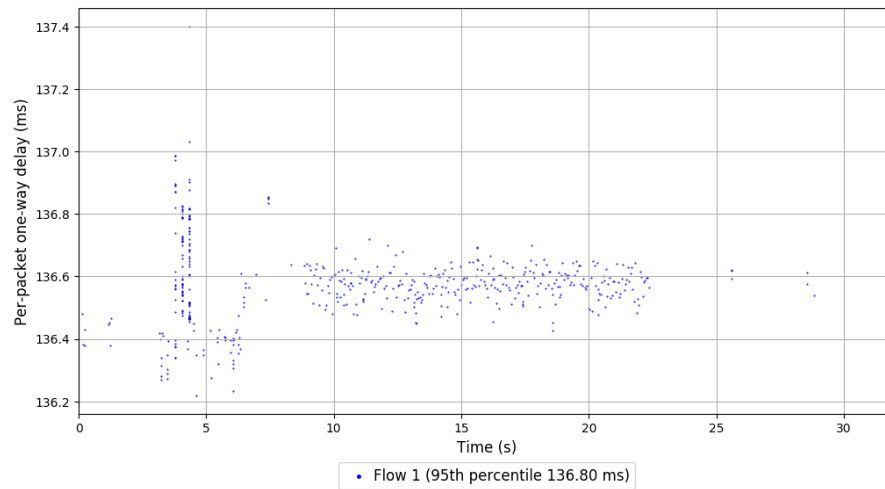
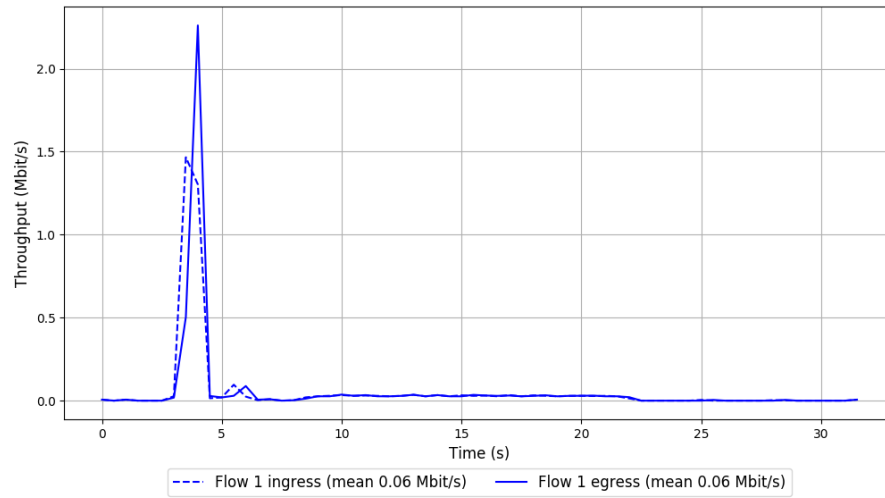
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.801 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-24 22:25:13

End at: 2018-04-24 22:25:43

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.750 ms

Loss rate: 0.00%

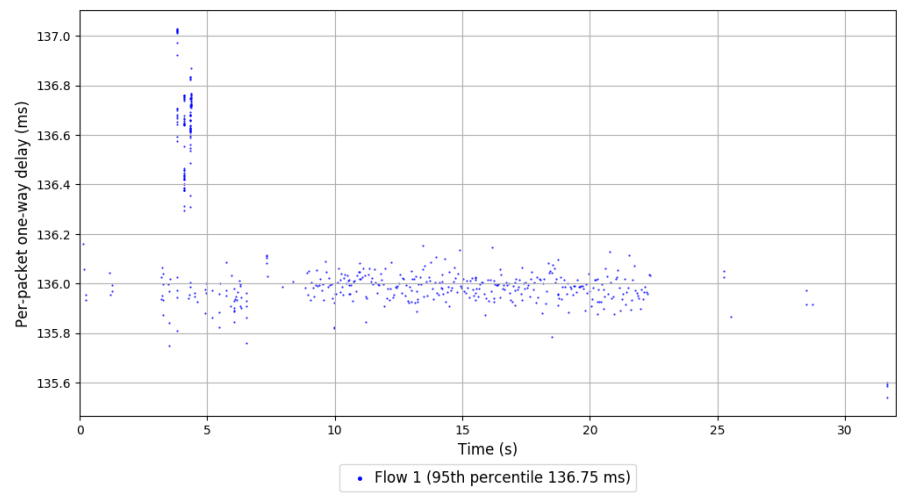
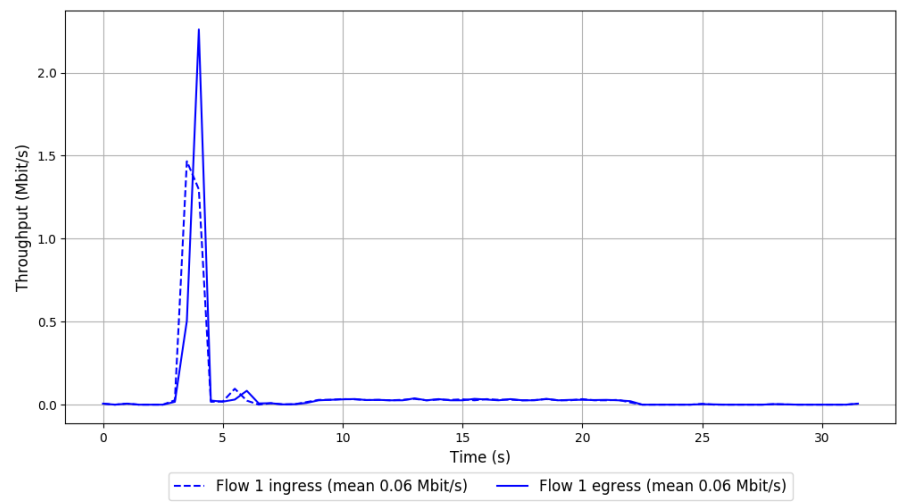
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.750 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-24 22:39:34

End at: 2018-04-24 22:40:04

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.844 ms

Loss rate: 0.00%

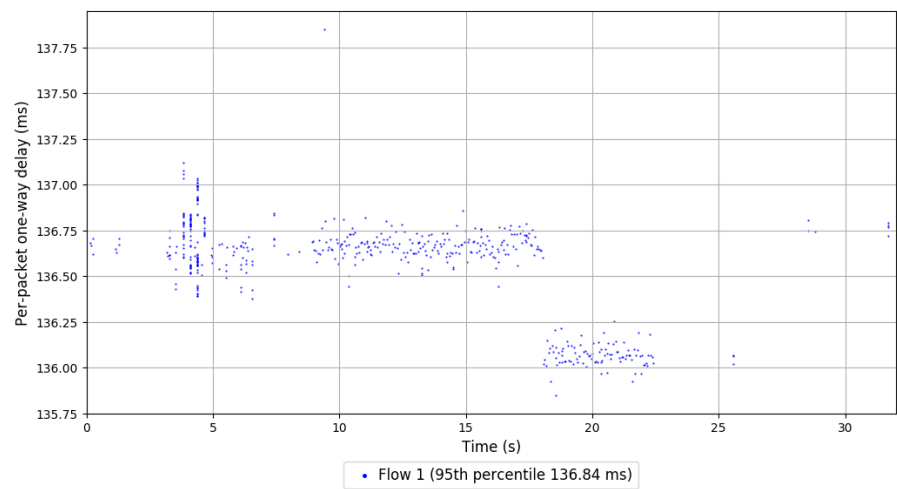
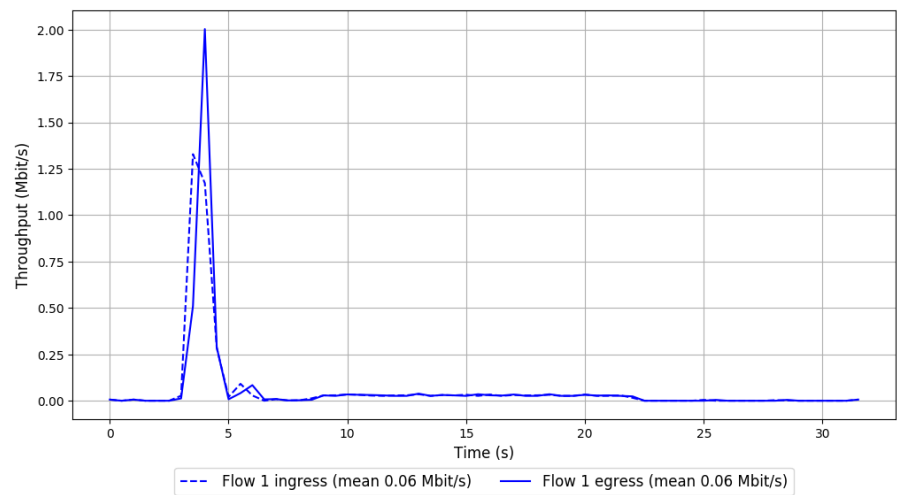
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.844 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-24 22:54:08

End at: 2018-04-24 22:54:38

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.269 ms

Loss rate: 0.00%

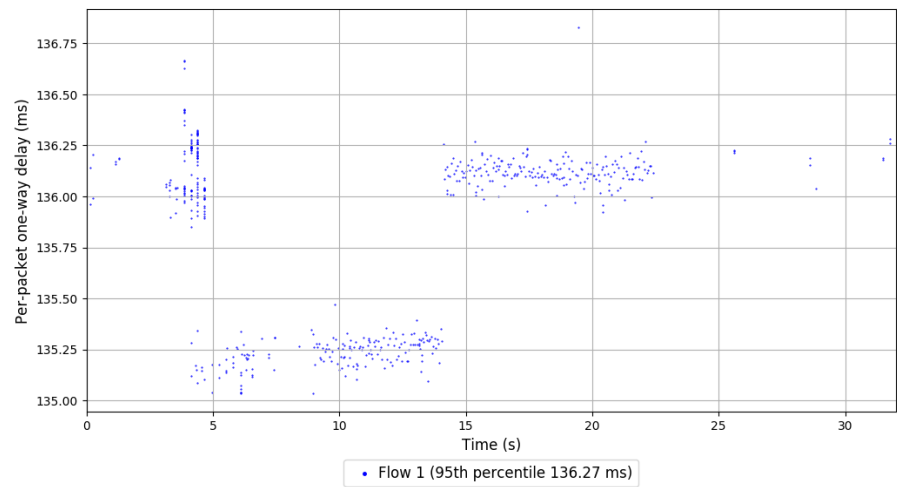
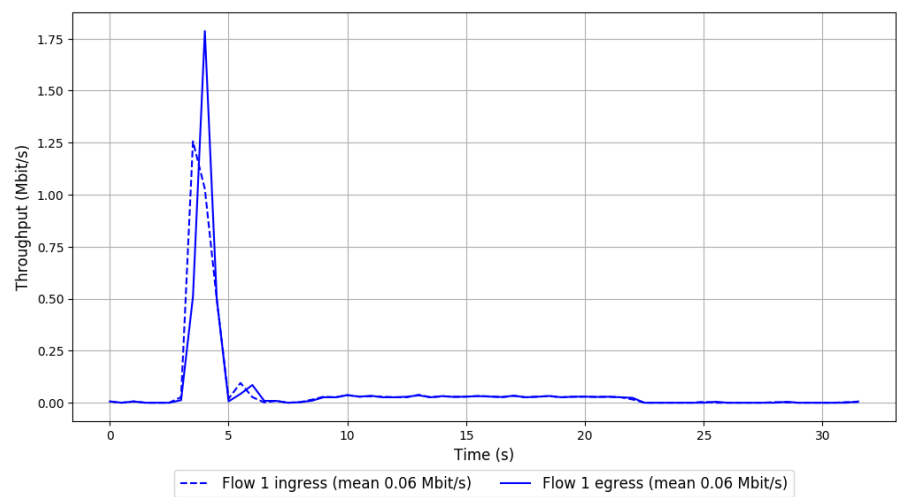
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.269 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-04-24 23:08:42

End at: 2018-04-24 23:09:12

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

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

Loss rate: 0.00%

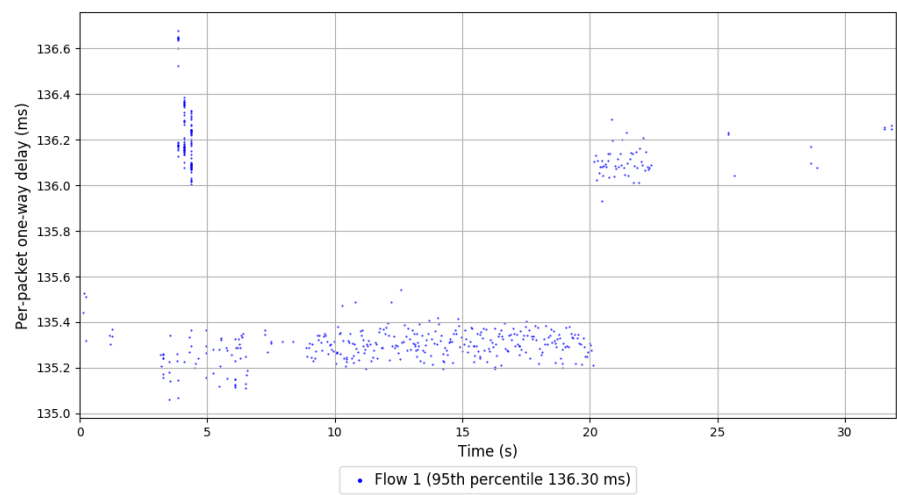
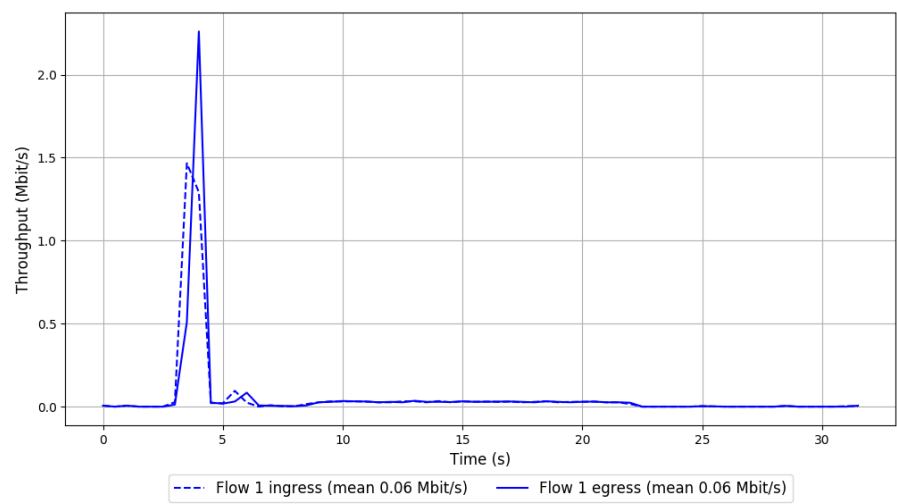
-- Flow 1:

Average throughput: 0.06 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-24 23:23:16

End at: 2018-04-24 23:23:46

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.374 ms

Loss rate: 0.00%

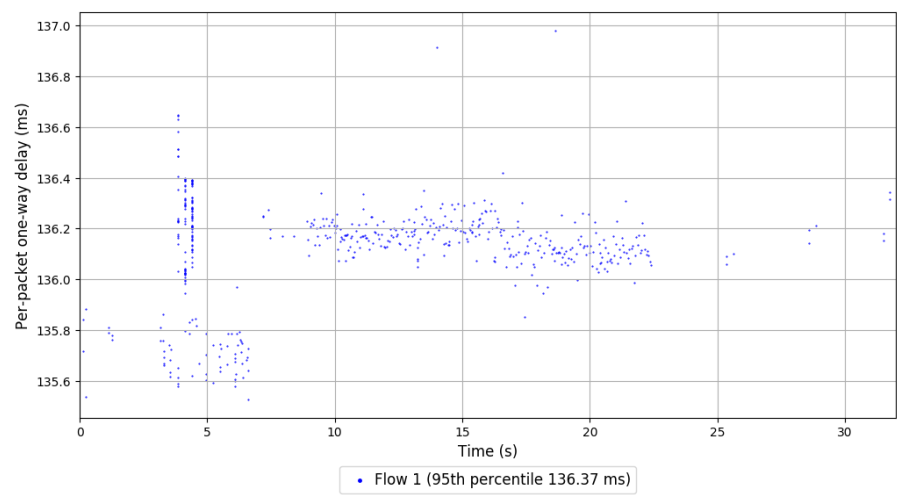
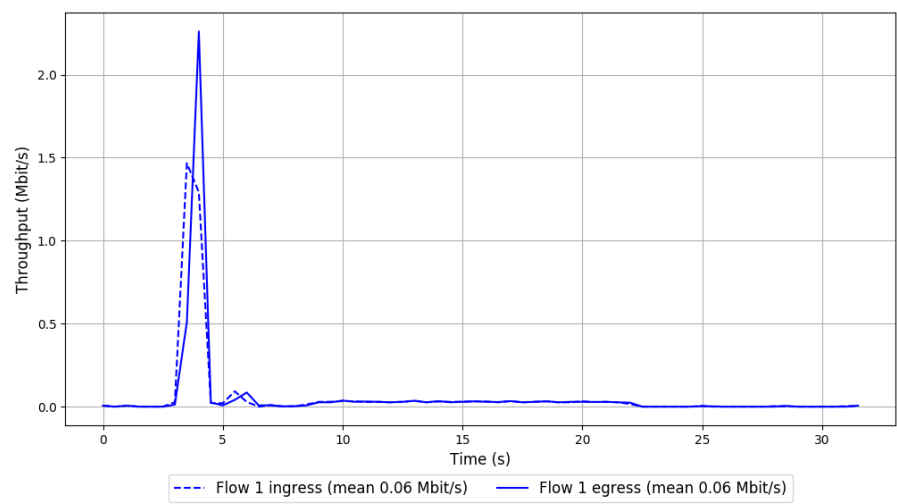
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.374 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-04-24 21:08:36

End at: 2018-04-24 21:09:06

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.936 ms

Loss rate: 0.00%

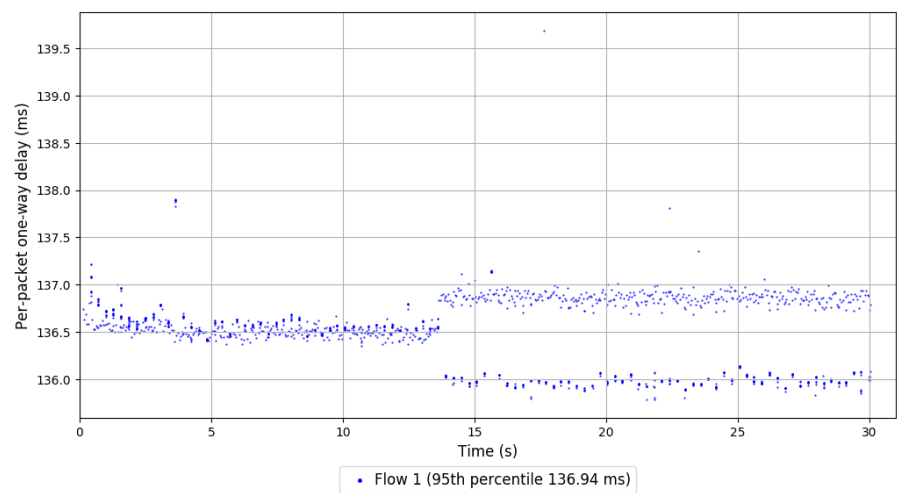
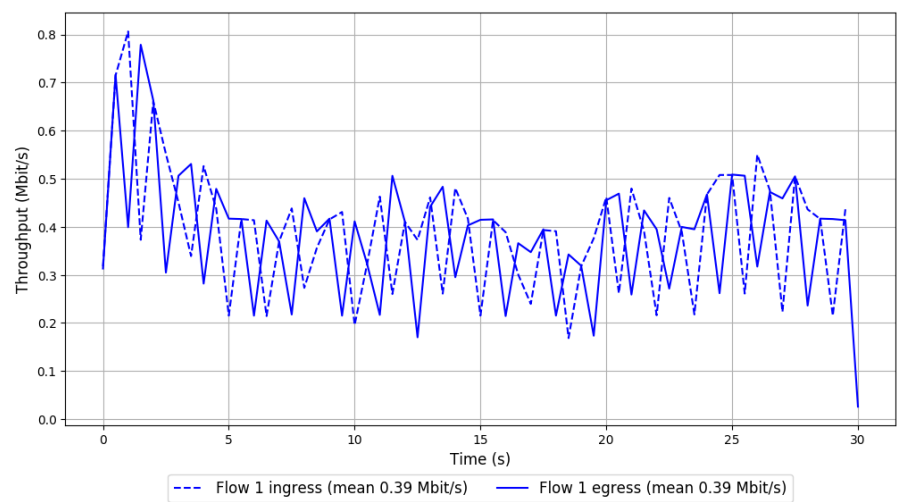
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.936 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-04-24 21:23:10

End at: 2018-04-24 21:23:40

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.00%

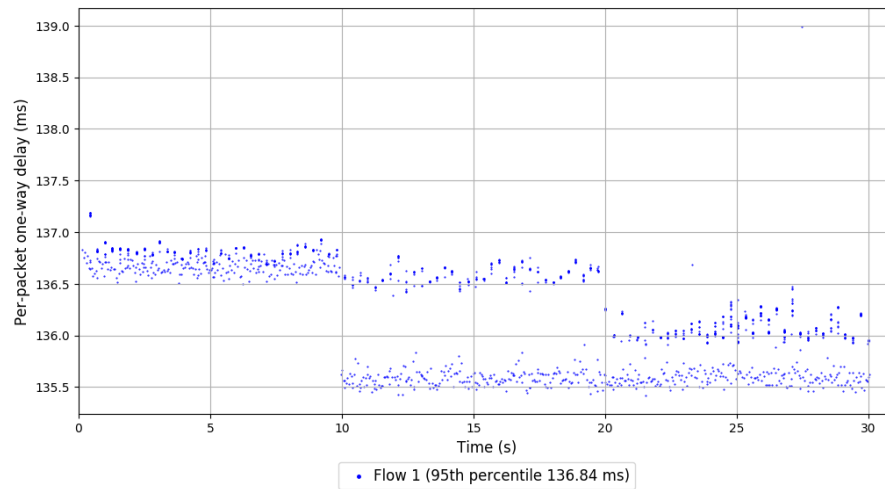
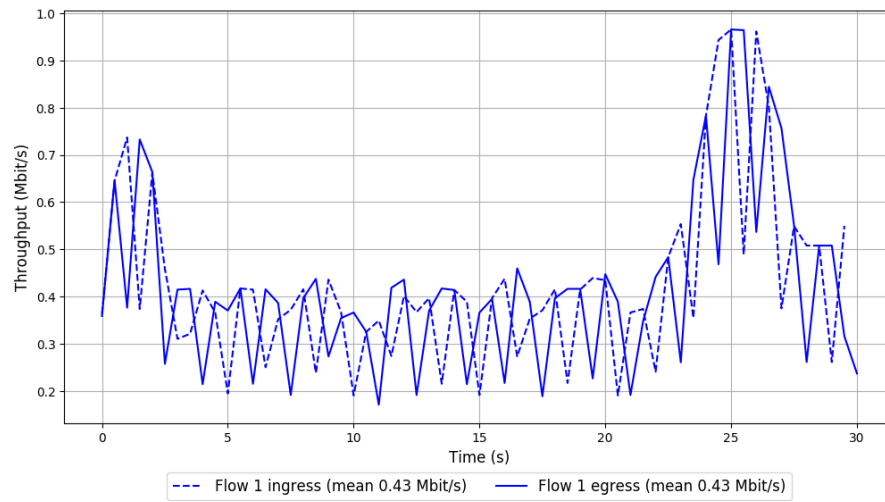
-- Flow 1:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-04-24 21:37:21

End at: 2018-04-24 21:37:51

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.863 ms

Loss rate: 0.00%

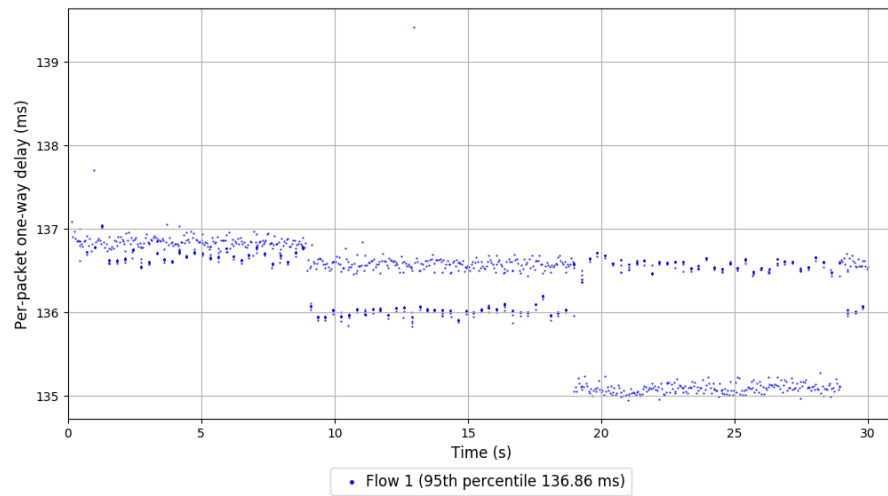
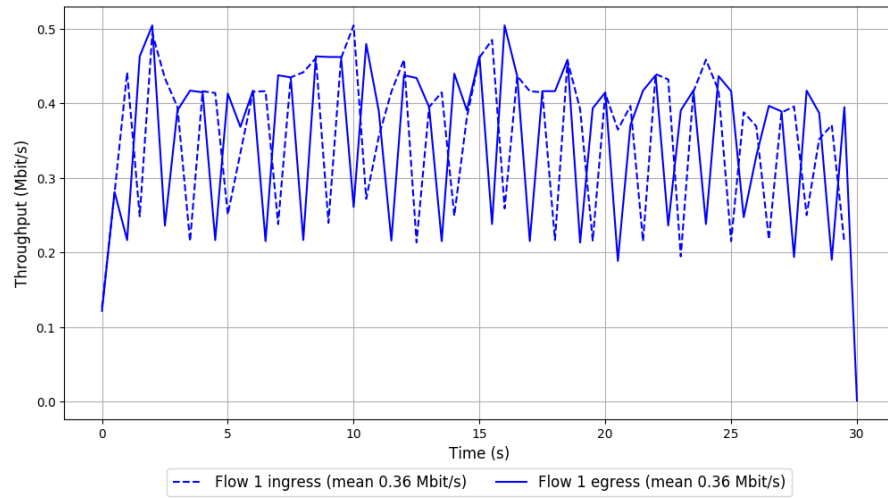
-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.863 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-04-24 21:52:01

End at: 2018-04-24 21:52:31

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.716 ms

Loss rate: 0.00%

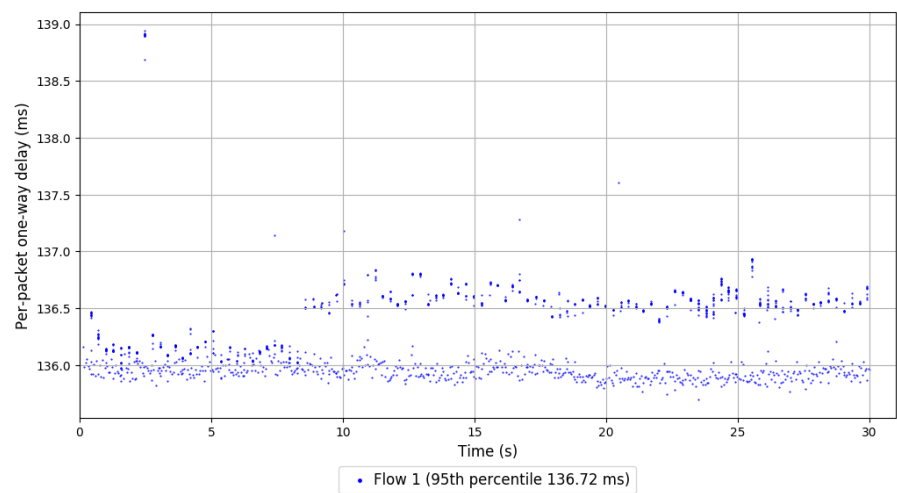
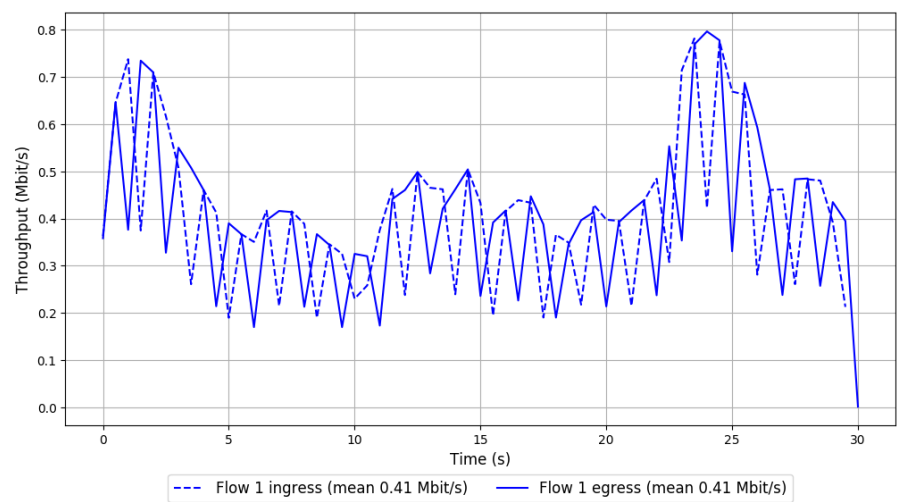
-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.716 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-04-24 22:06:31

End at: 2018-04-24 22:07:01

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.781 ms

Loss rate: 0.00%

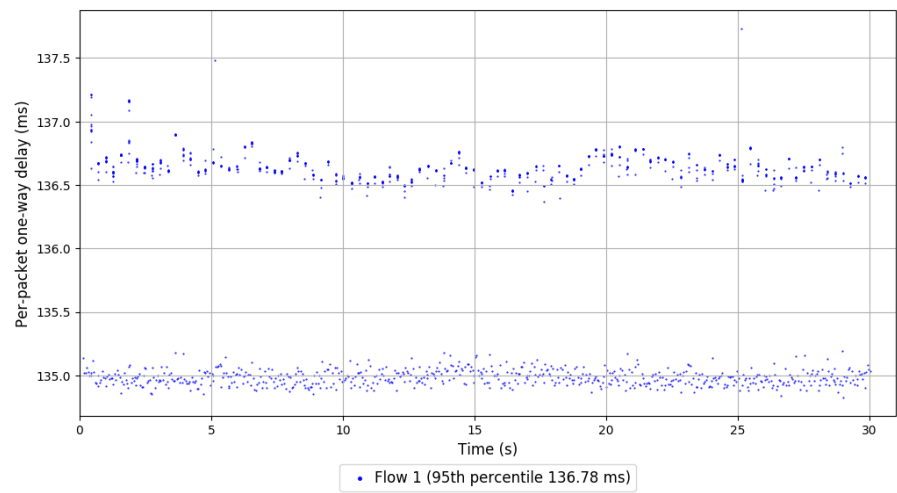
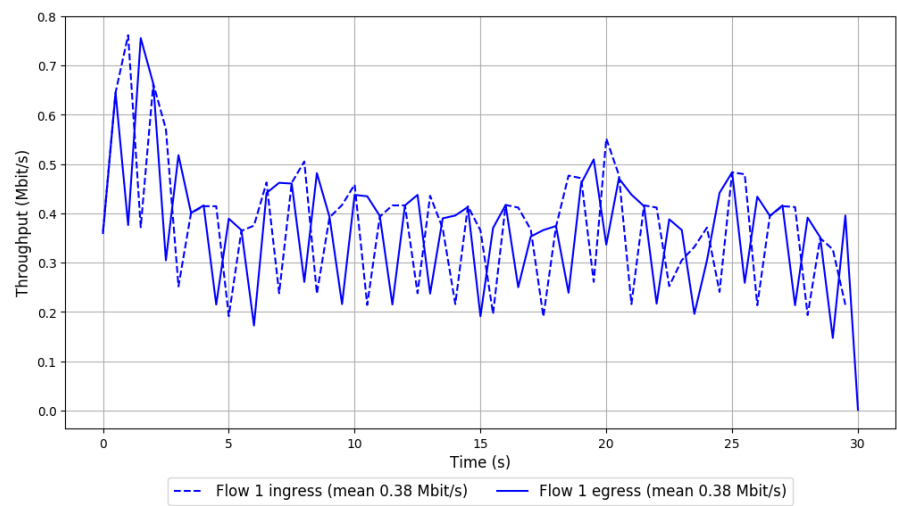
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.781 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-04-24 22:21:07

End at: 2018-04-24 22:21:37

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.40 Mbit/s

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

Loss rate: 0.00%

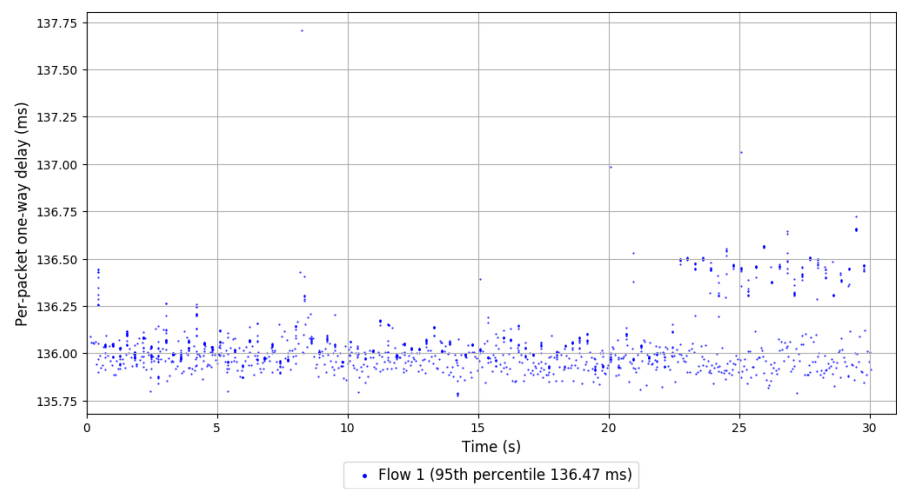
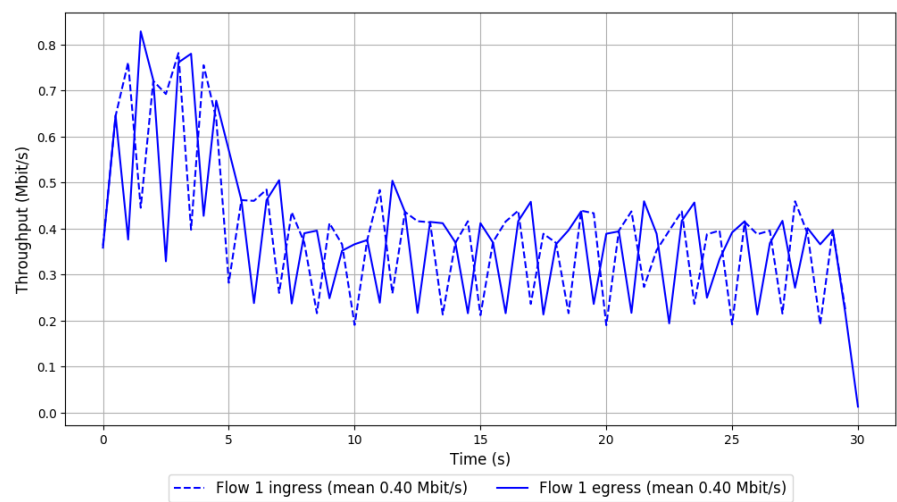
-- Flow 1:

Average throughput: 0.40 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-04-24 22:35:31

End at: 2018-04-24 22:36:01

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.126 ms

Loss rate: 0.00%

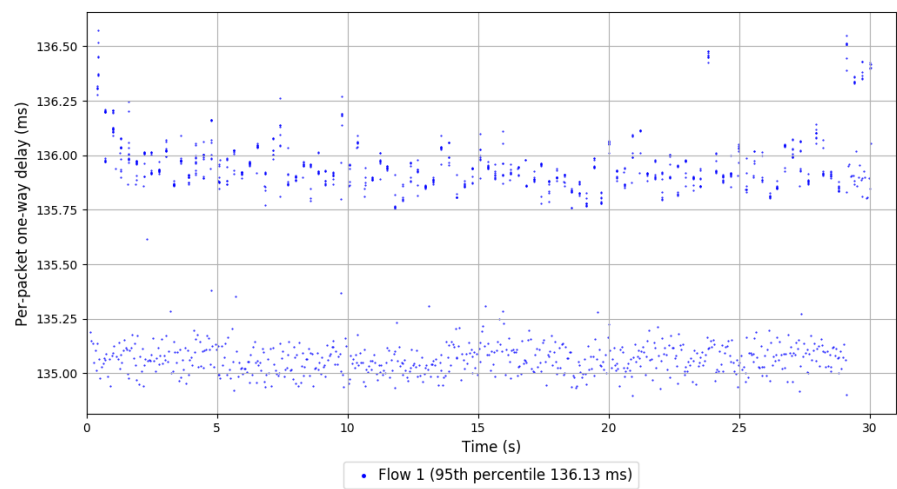
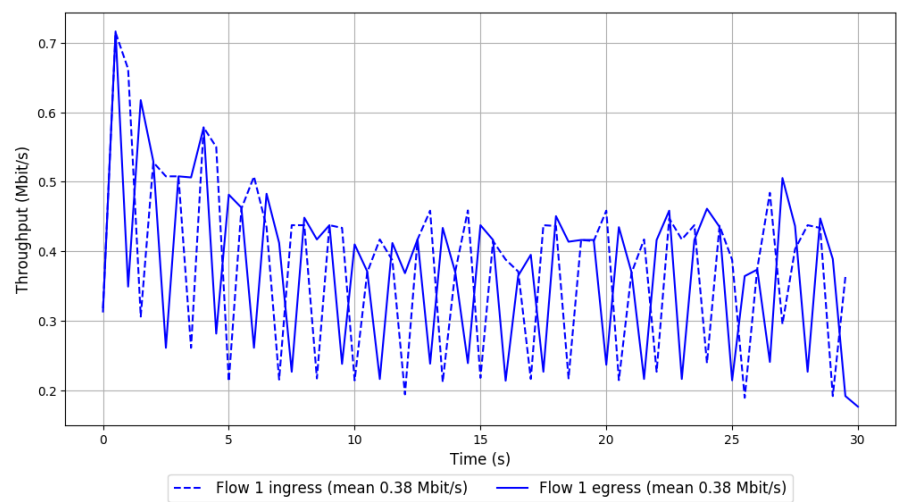
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.126 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-04-24 22:50:03

End at: 2018-04-24 22:50:33

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

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

Loss rate: 0.00%

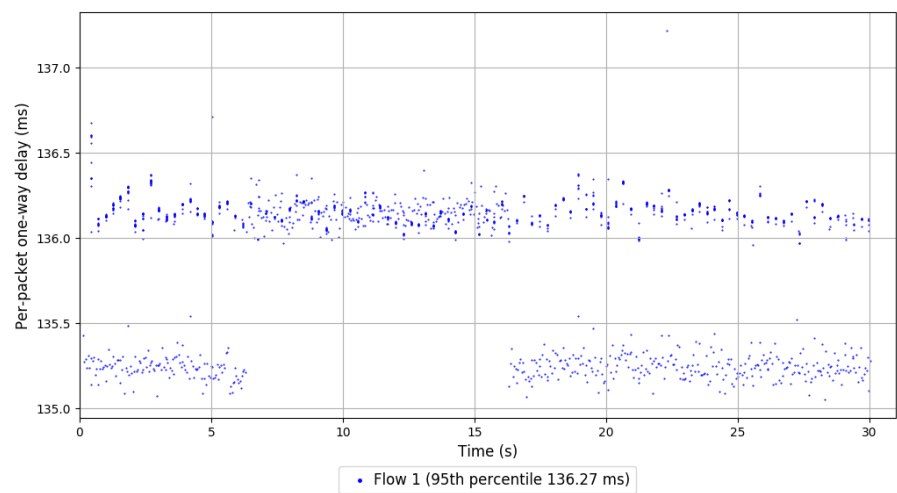
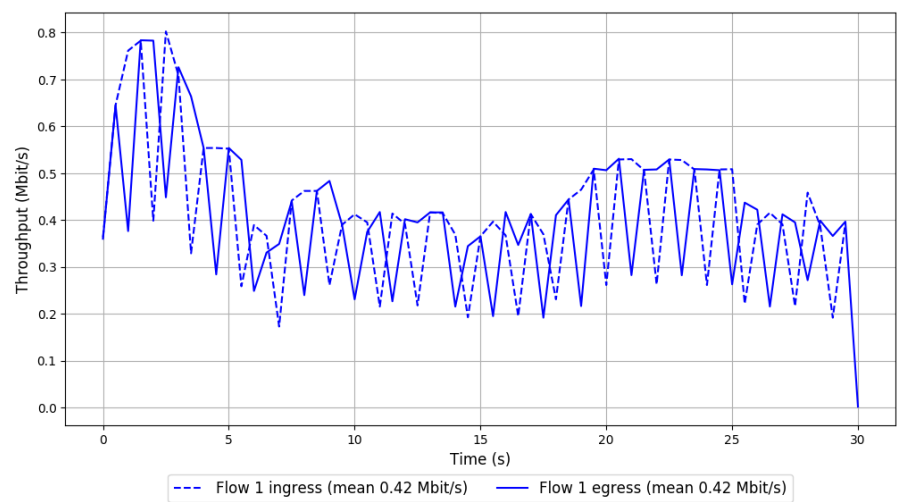
-- Flow 1:

Average throughput: 0.42 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-04-24 23:04:38

End at: 2018-04-24 23:05:08

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.850 ms

Loss rate: 0.00%

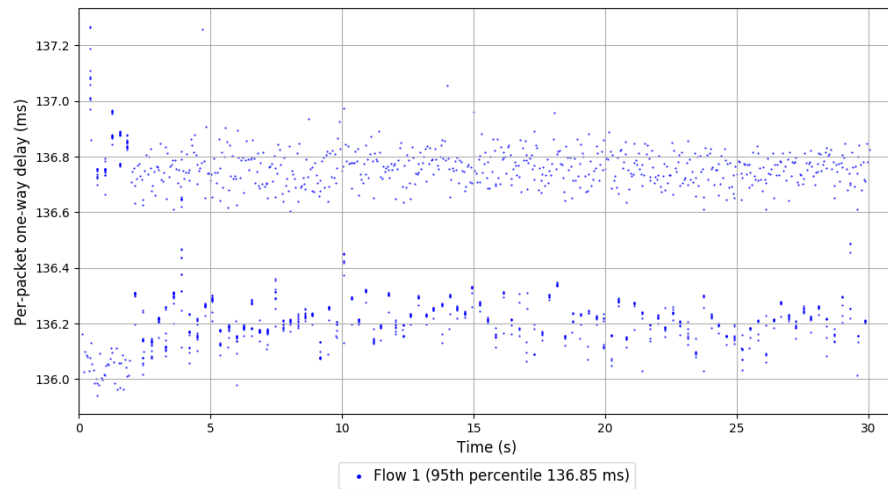
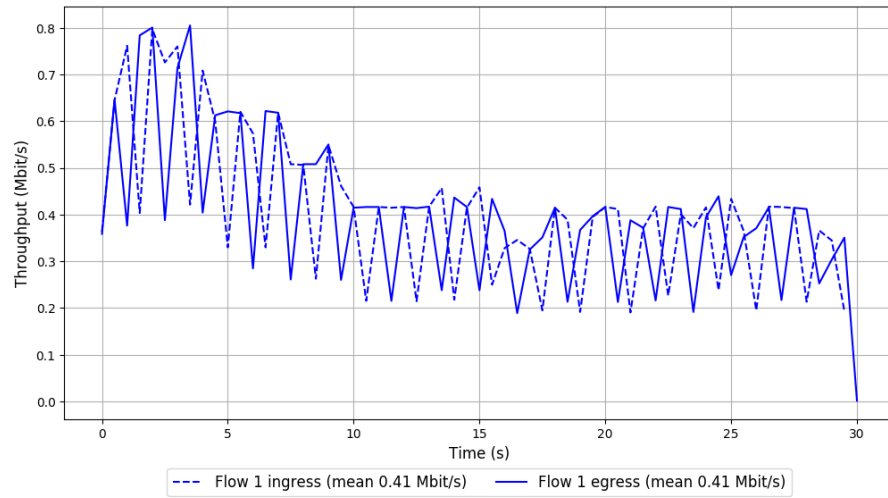
-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.850 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-04-24 23:19:12

End at: 2018-04-24 23:19:42

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.394 ms

Loss rate: 0.00%

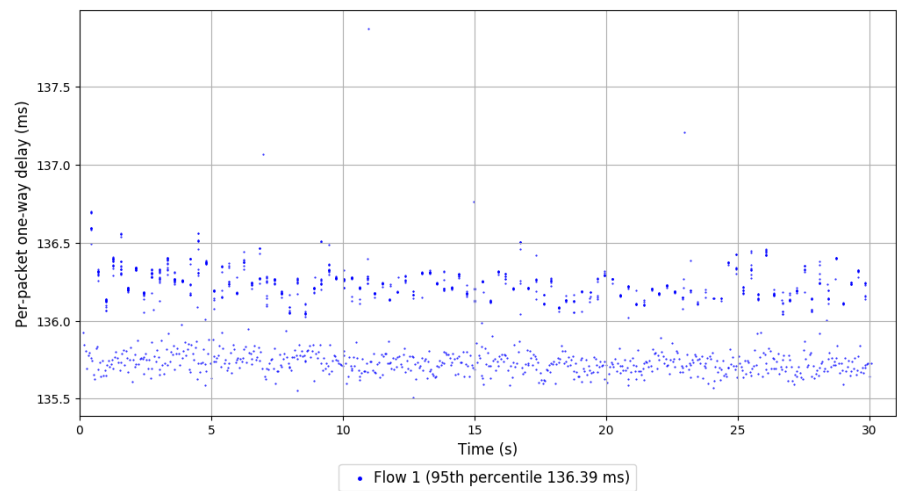
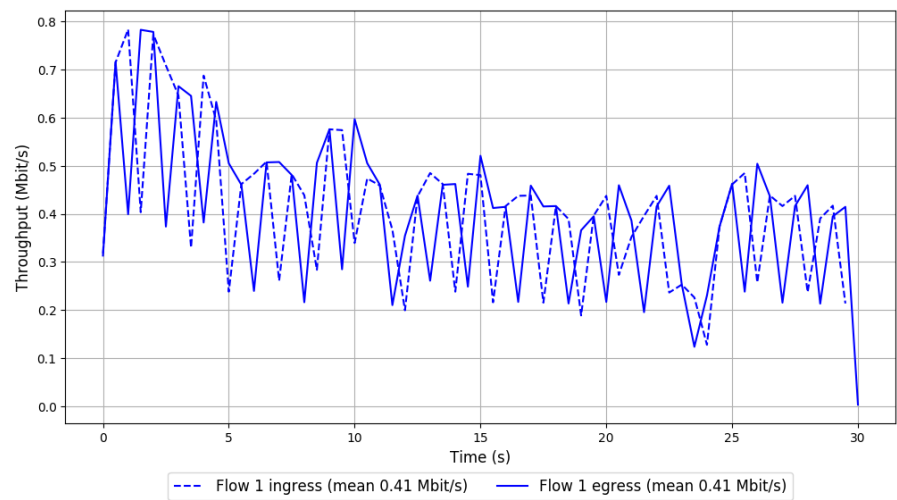
-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.394 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

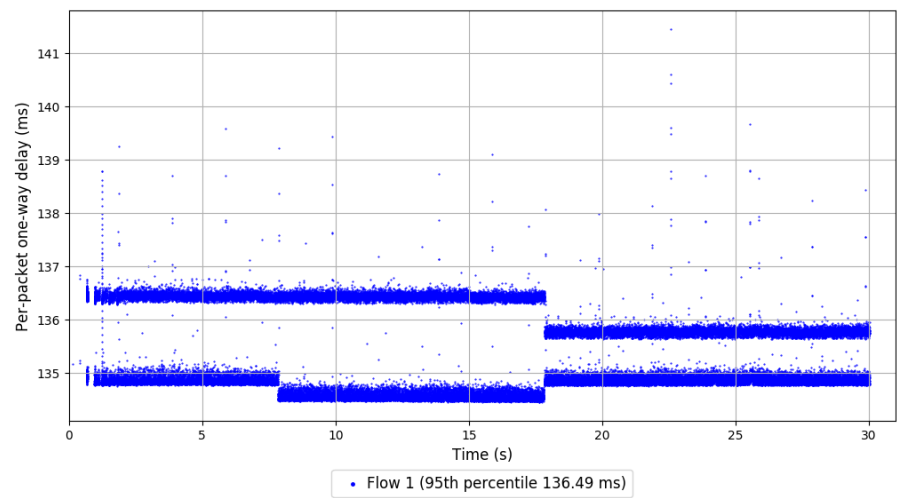
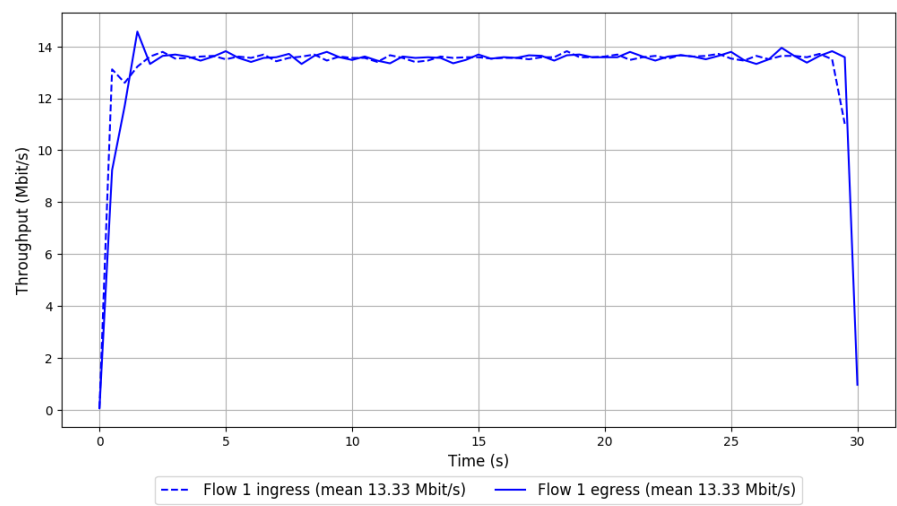


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-24 21:07:52
End at: 2018-04-24 21:08:22

# Below is generated by plot.py at 2018-04-25 00:47:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.33 Mbit/s
95th percentile per-packet one-way delay: 136.491 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.33 Mbit/s
95th percentile per-packet one-way delay: 136.491 ms
Loss rate: 0.00%
```

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

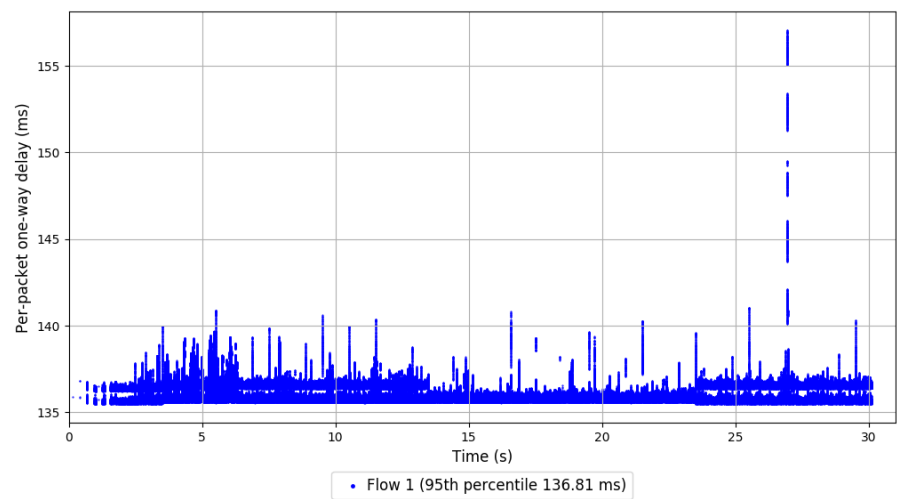
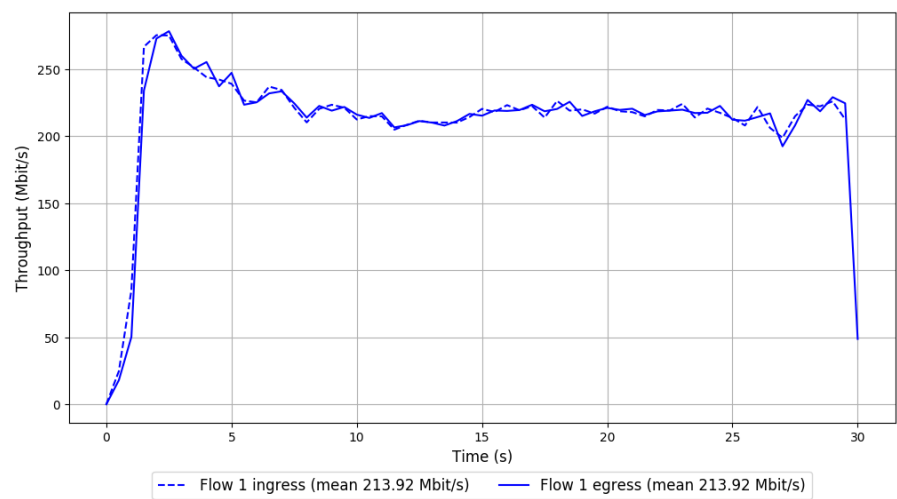


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-04-24 21:22:06
End at: 2018-04-24 21:22:36

# Below is generated by plot.py at 2018-04-25 00:47:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.92 Mbit/s
95th percentile per-packet one-way delay: 136.812 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 213.92 Mbit/s
95th percentile per-packet one-way delay: 136.812 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-24 21:36:36

End at: 2018-04-24 21:37:07

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.29 Mbit/s

95th percentile per-packet one-way delay: 136.484 ms

Loss rate: 0.00%

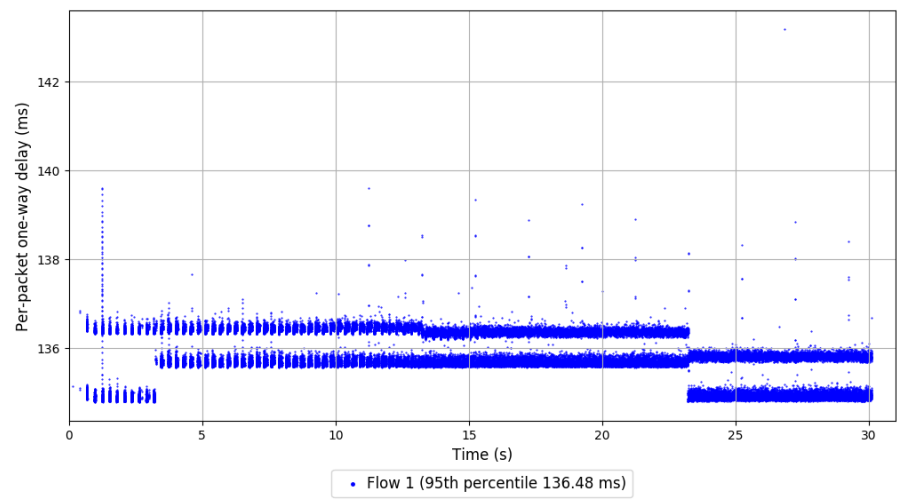
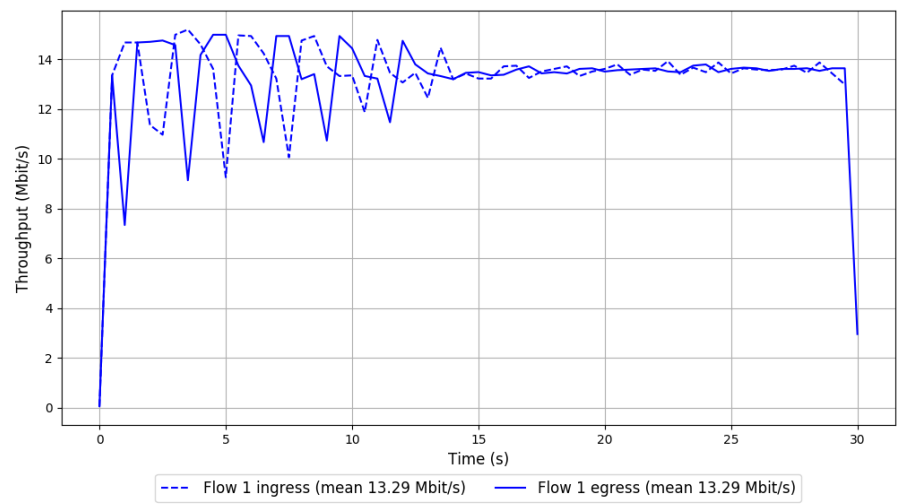
-- Flow 1:

Average throughput: 13.29 Mbit/s

95th percentile per-packet one-way delay: 136.484 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-04-24 21:50:58

End at: 2018-04-24 21:51:28

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.80 Mbit/s

95th percentile per-packet one-way delay: 136.857 ms

Loss rate: 0.00%

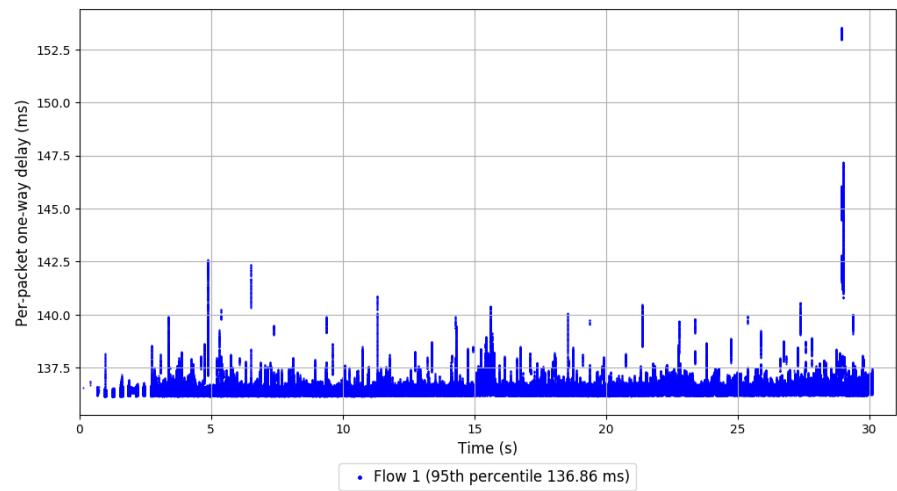
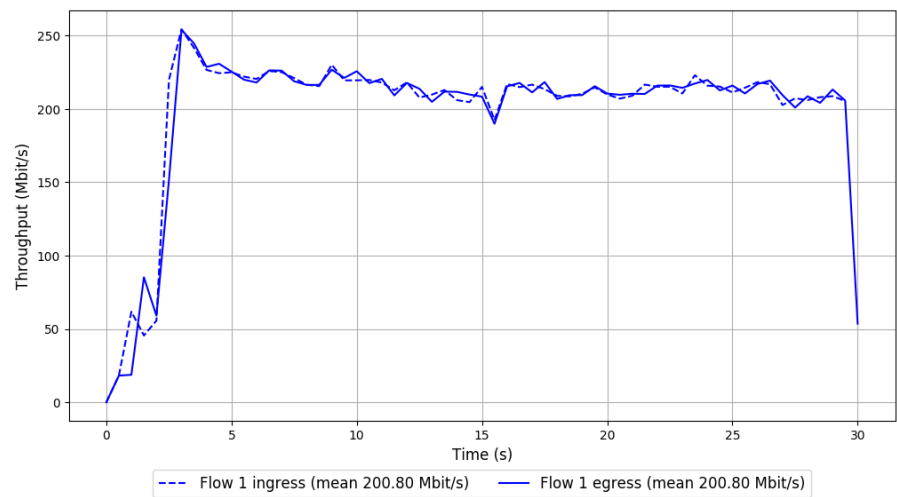
-- Flow 1:

Average throughput: 200.80 Mbit/s

95th percentile per-packet one-way delay: 136.857 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-24 22:05:28

End at: 2018-04-24 22:05:58

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.90 Mbit/s

95th percentile per-packet one-way delay: 136.539 ms

Loss rate: 0.00%

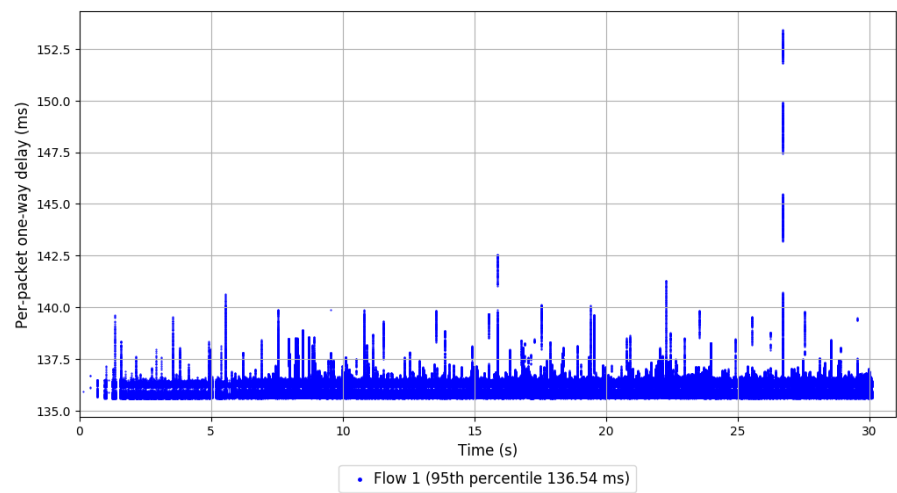
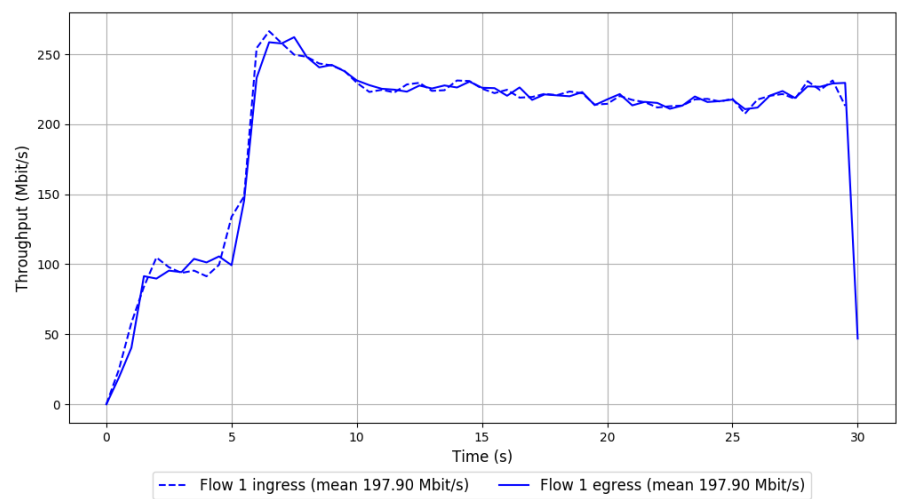
-- Flow 1:

Average throughput: 197.90 Mbit/s

95th percentile per-packet one-way delay: 136.539 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-24 22:20:04

End at: 2018-04-24 22:20:34

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.86 Mbit/s

95th percentile per-packet one-way delay: 136.540 ms

Loss rate: 0.00%

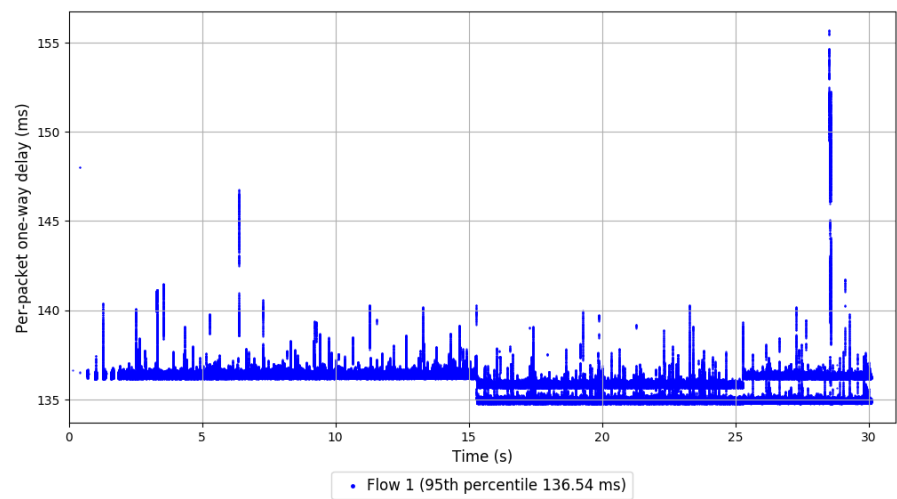
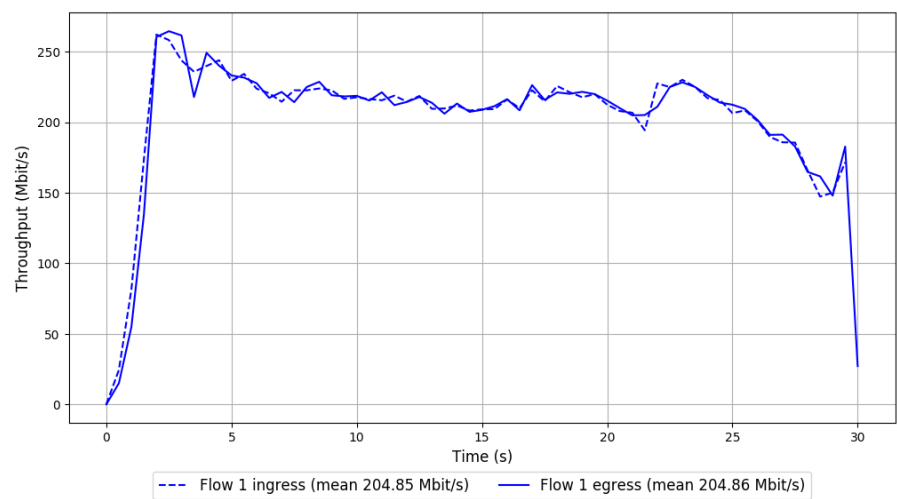
-- Flow 1:

Average throughput: 204.86 Mbit/s

95th percentile per-packet one-way delay: 136.540 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-04-24 22:34:46

End at: 2018-04-24 22:35:16

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.19 Mbit/s

95th percentile per-packet one-way delay: 136.311 ms

Loss rate: 0.00%

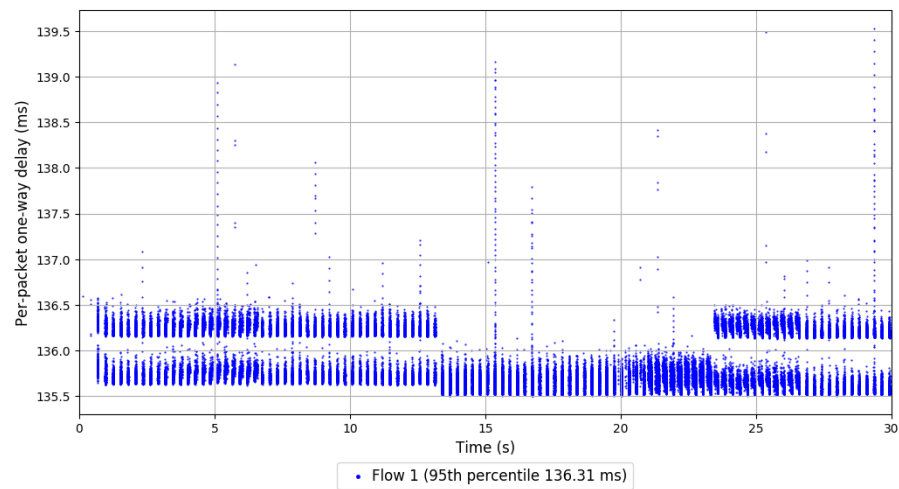
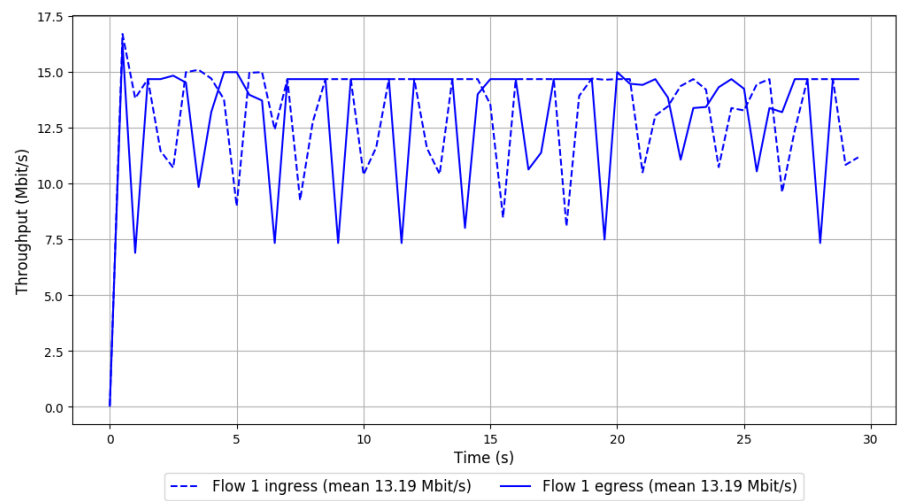
-- Flow 1:

Average throughput: 13.19 Mbit/s

95th percentile per-packet one-way delay: 136.311 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-24 22:49:01

End at: 2018-04-24 22:49:31

Below is generated by plot.py at 2018-04-25 00:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.08 Mbit/s

95th percentile per-packet one-way delay: 136.084 ms

Loss rate: 0.00%

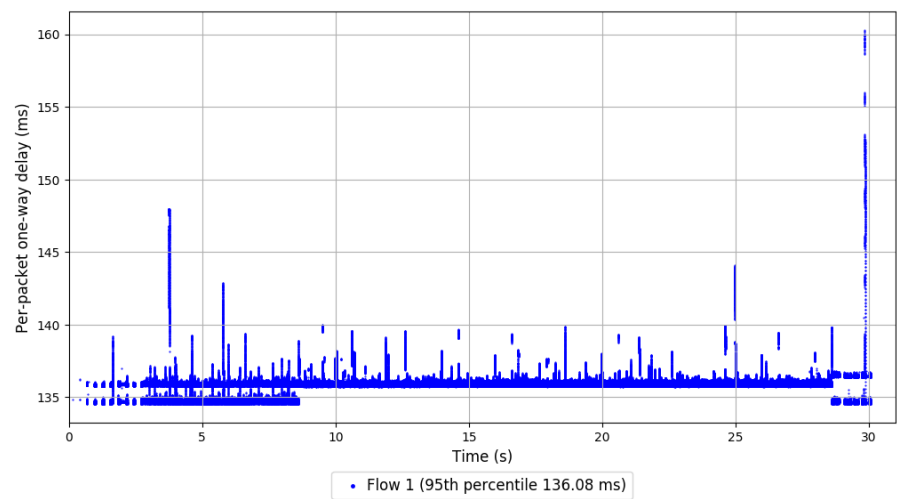
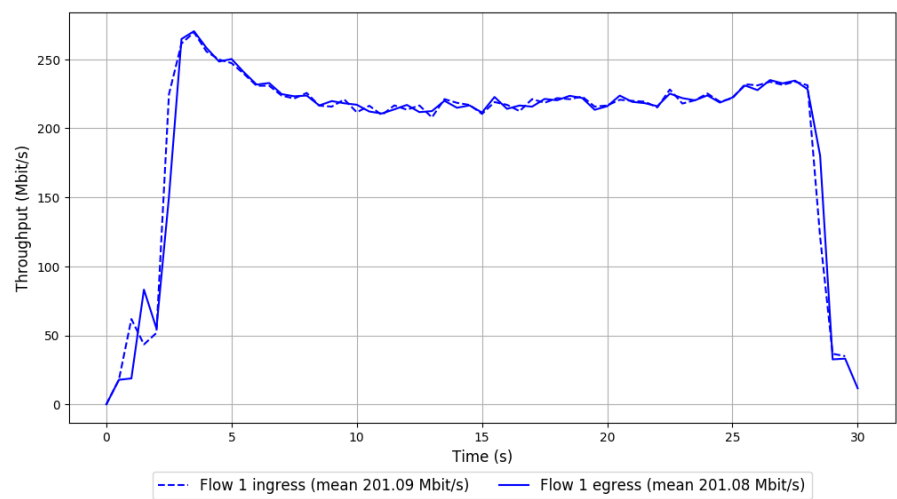
-- Flow 1:

Average throughput: 201.08 Mbit/s

95th percentile per-packet one-way delay: 136.084 ms

Loss rate: 0.00%

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

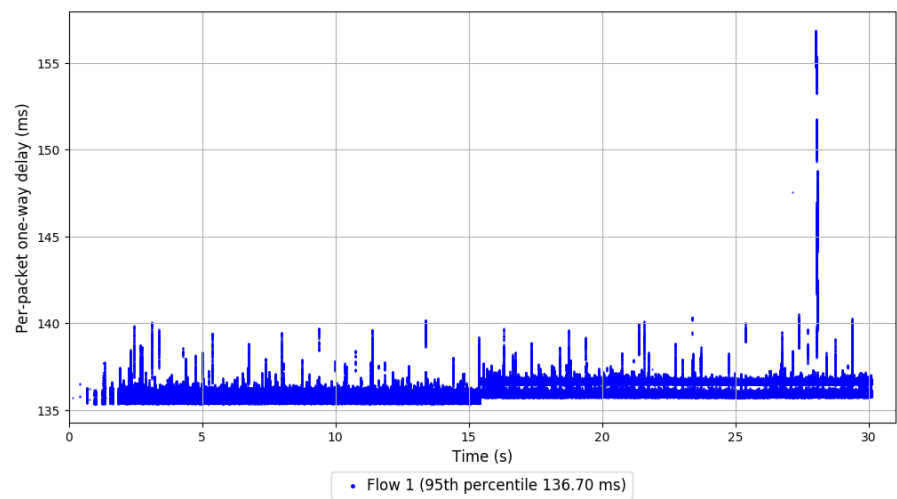
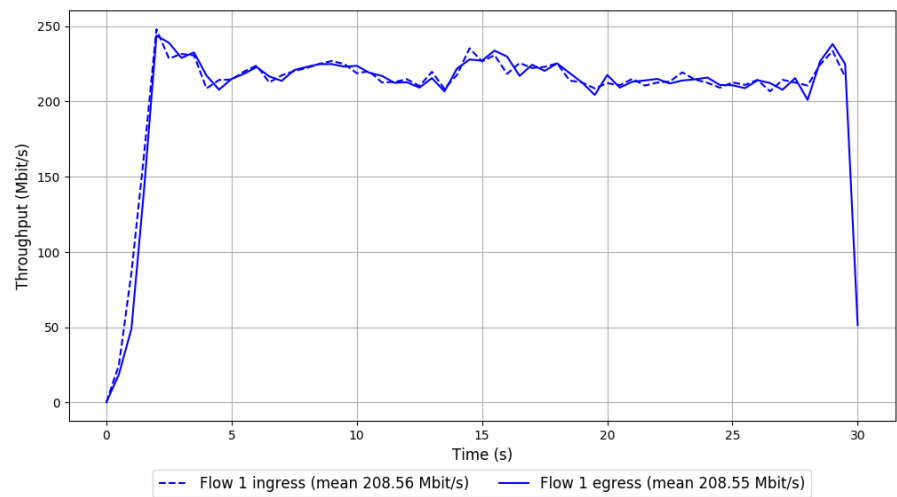


```
Run 9: Statistics of TaoVA-100x

Start at: 2018-04-24 23:03:34
End at: 2018-04-24 23:04:04

# Below is generated by plot.py at 2018-04-25 00:47:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 208.55 Mbit/s
95th percentile per-packet one-way delay: 136.704 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 208.55 Mbit/s
95th percentile per-packet one-way delay: 136.704 ms
Loss rate: 0.00%
```

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

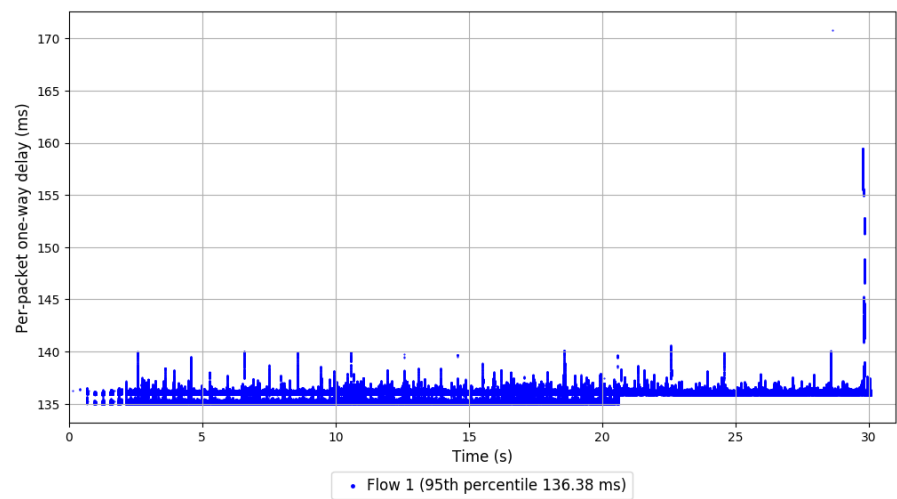
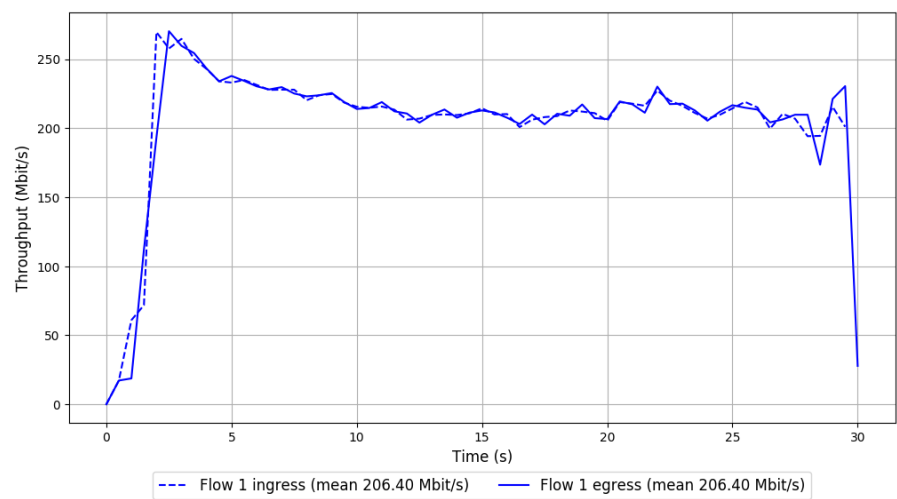


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-04-24 23:18:09
End at: 2018-04-24 23:18:39

# Below is generated by plot.py at 2018-04-25 00:53:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 206.40 Mbit/s
95th percentile per-packet one-way delay: 136.383 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 206.40 Mbit/s
95th percentile per-packet one-way delay: 136.383 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-24 21:13:19

End at: 2018-04-24 21:13:49

Below is generated by plot.py at 2018-04-25 00:53:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.31 Mbit/s

95th percentile per-packet one-way delay: 140.920 ms

Loss rate: 0.00%

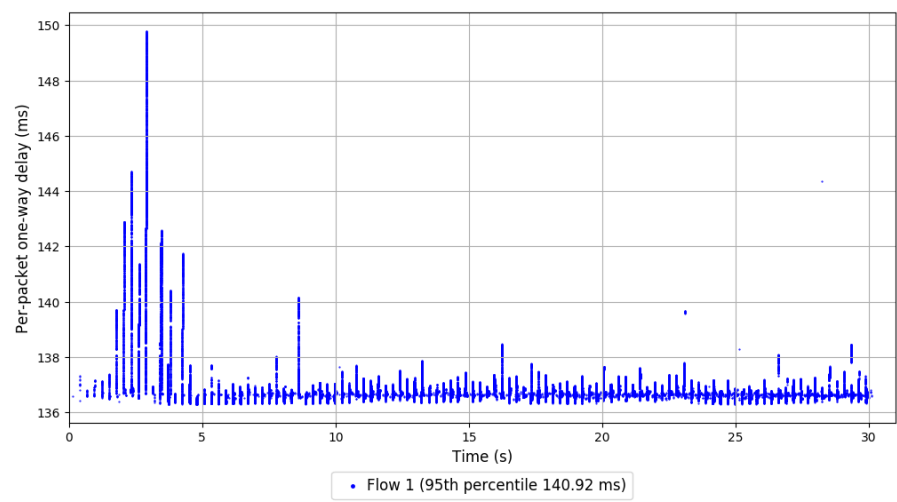
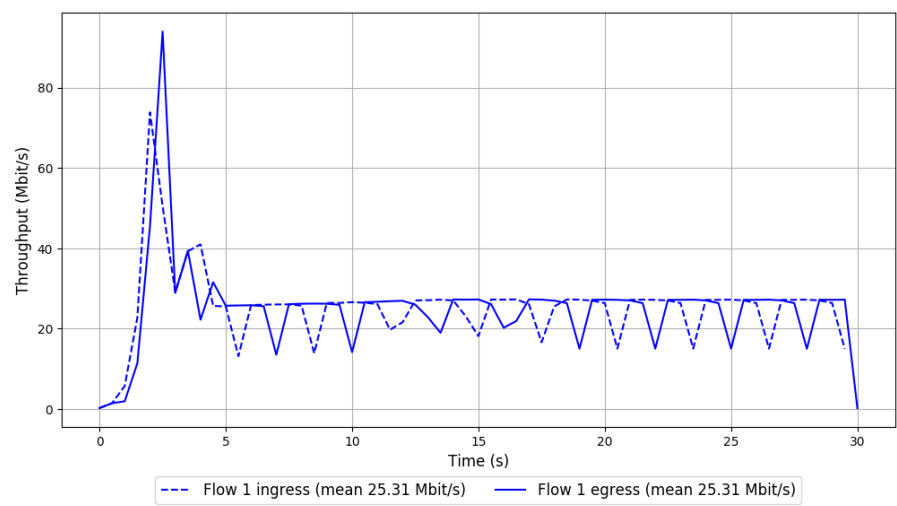
-- Flow 1:

Average throughput: 25.31 Mbit/s

95th percentile per-packet one-way delay: 140.920 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-24 21:27:56

End at: 2018-04-24 21:28:26

Below is generated by plot.py at 2018-04-25 00:53:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.66 Mbit/s

95th percentile per-packet one-way delay: 138.490 ms

Loss rate: 0.00%

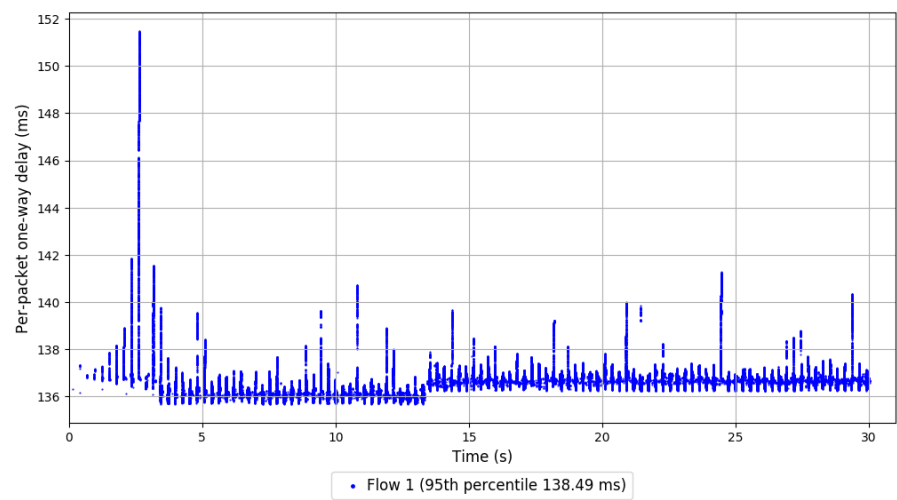
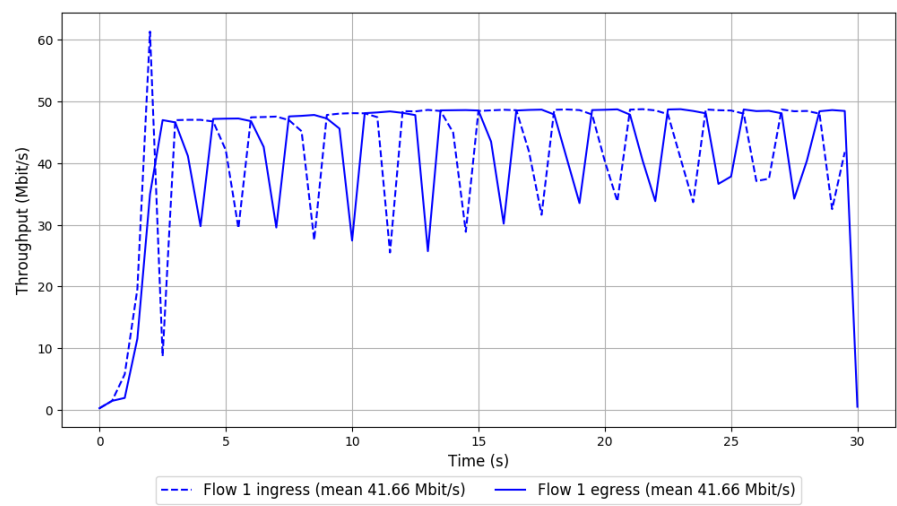
-- Flow 1:

Average throughput: 41.66 Mbit/s

95th percentile per-packet one-way delay: 138.490 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-24 21:42:07

End at: 2018-04-24 21:42:37

Below is generated by plot.py at 2018-04-25 00:53:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.76 Mbit/s

95th percentile per-packet one-way delay: 146.481 ms

Loss rate: 0.00%

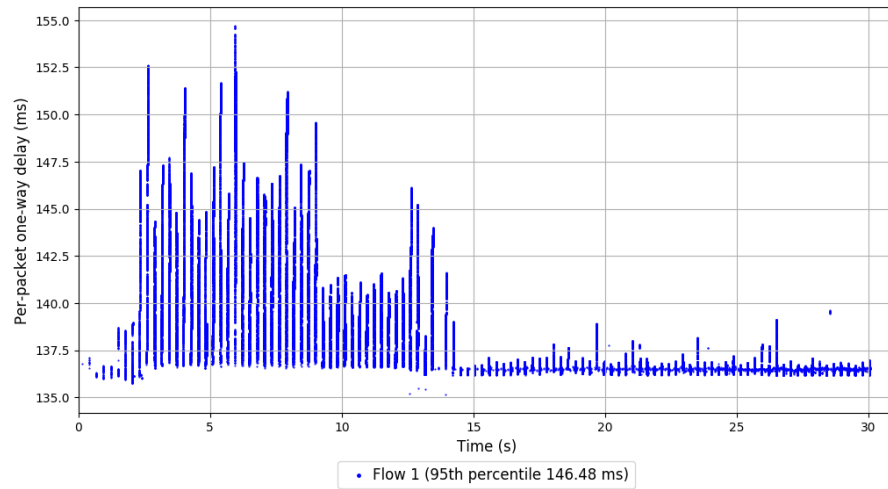
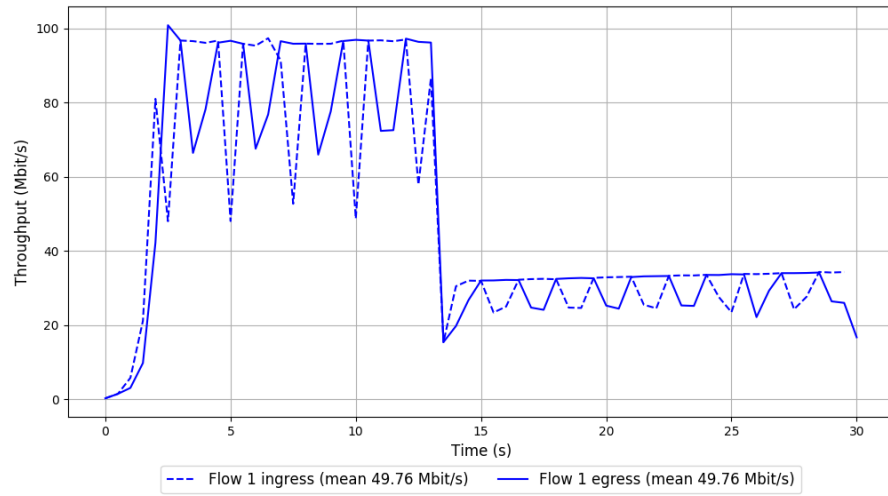
-- Flow 1:

Average throughput: 49.76 Mbit/s

95th percentile per-packet one-way delay: 146.481 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-04-24 21:56:44

End at: 2018-04-24 21:57:14

Below is generated by plot.py at 2018-04-25 00:53:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.93 Mbit/s

95th percentile per-packet one-way delay: 138.358 ms

Loss rate: 0.00%

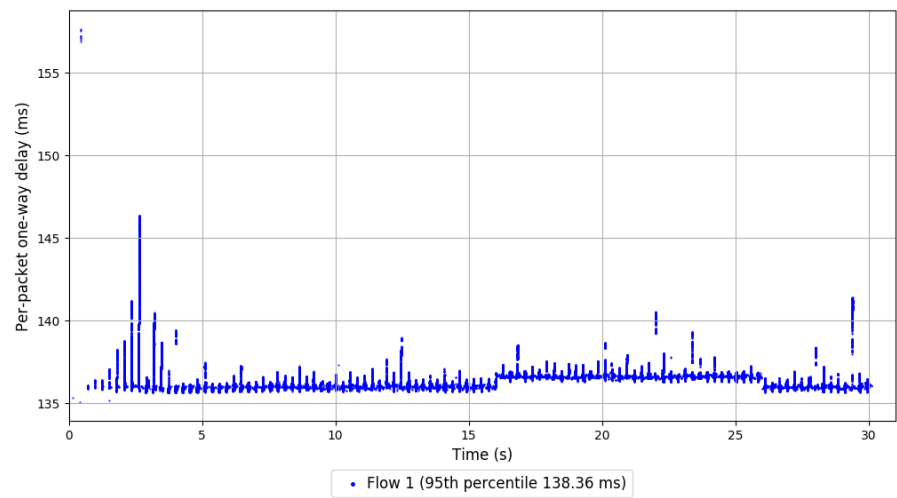
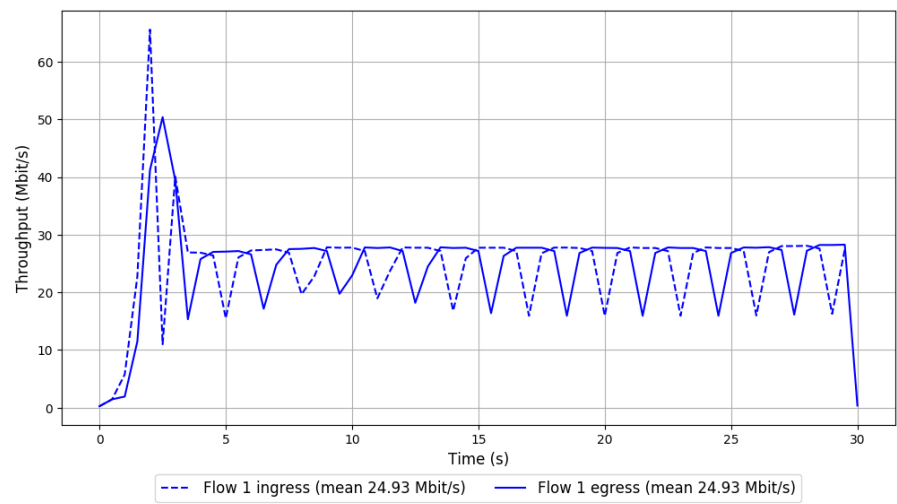
-- Flow 1:

Average throughput: 24.93 Mbit/s

95th percentile per-packet one-way delay: 138.358 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-24 22:11:16

End at: 2018-04-24 22:11:47

Below is generated by plot.py at 2018-04-25 00:53:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.58 Mbit/s

95th percentile per-packet one-way delay: 140.740 ms

Loss rate: 0.00%

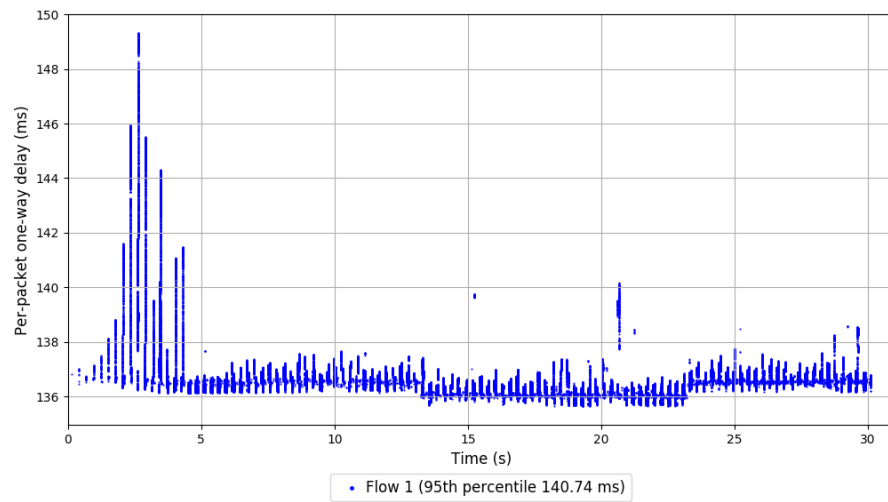
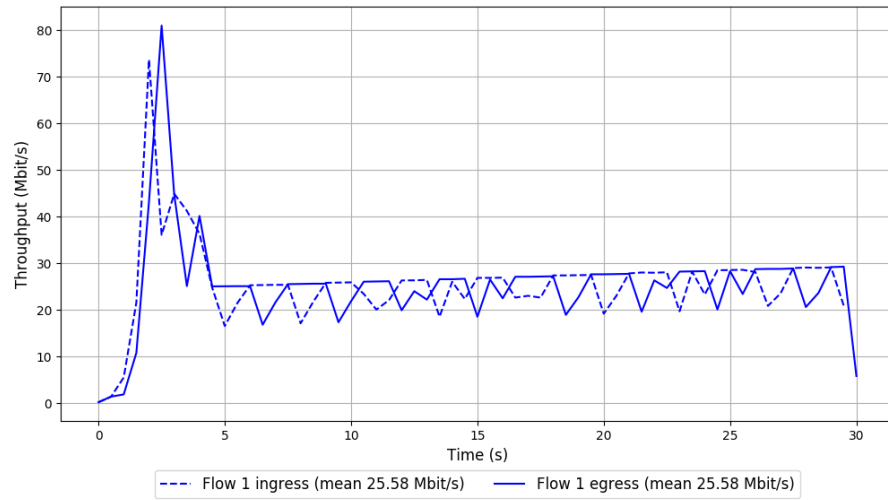
-- Flow 1:

Average throughput: 25.58 Mbit/s

95th percentile per-packet one-way delay: 140.740 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-04-24 22:25:54

End at: 2018-04-24 22:26:24

Below is generated by plot.py at 2018-04-25 00:53:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.12 Mbit/s

95th percentile per-packet one-way delay: 139.866 ms

Loss rate: 0.00%

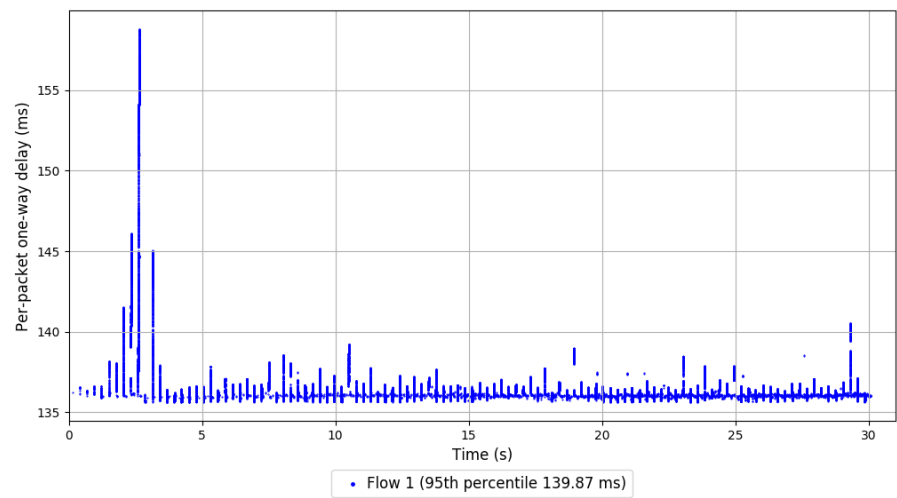
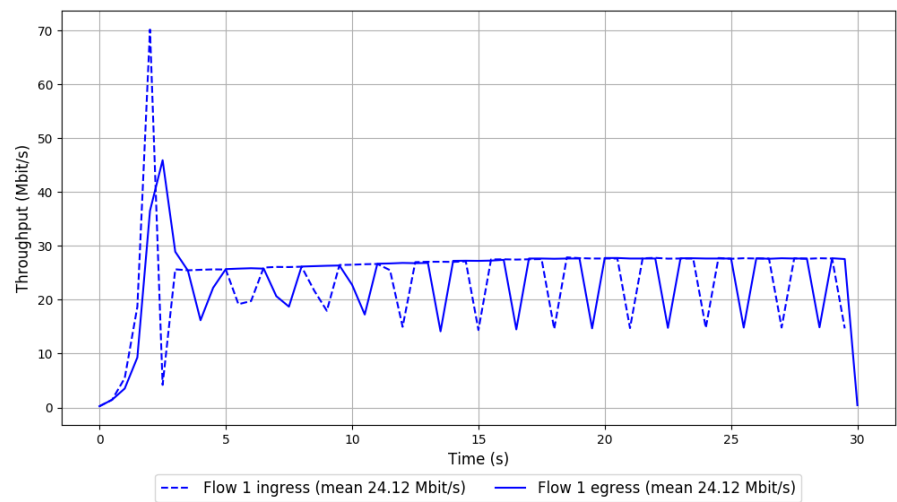
-- Flow 1:

Average throughput: 24.12 Mbit/s

95th percentile per-packet one-way delay: 139.866 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-04-24 22:40:16

End at: 2018-04-24 22:40:46

Below is generated by plot.py at 2018-04-25 00:53:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.95 Mbit/s

95th percentile per-packet one-way delay: 138.441 ms

Loss rate: 0.00%

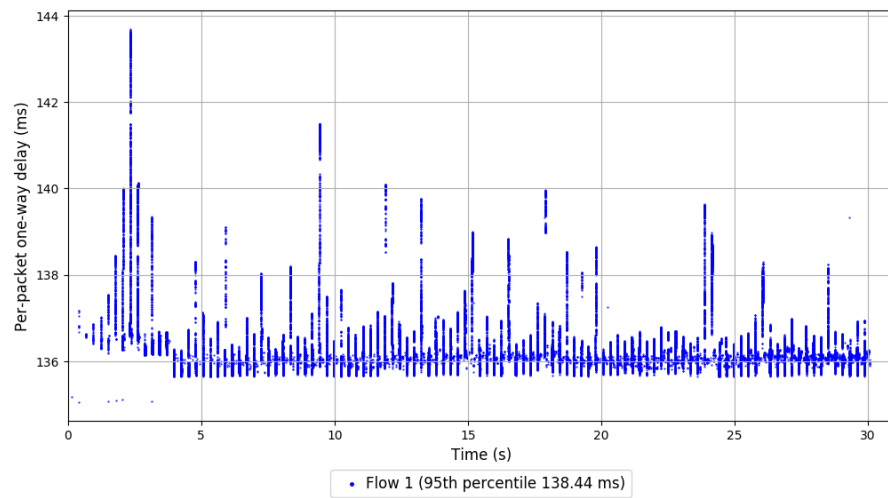
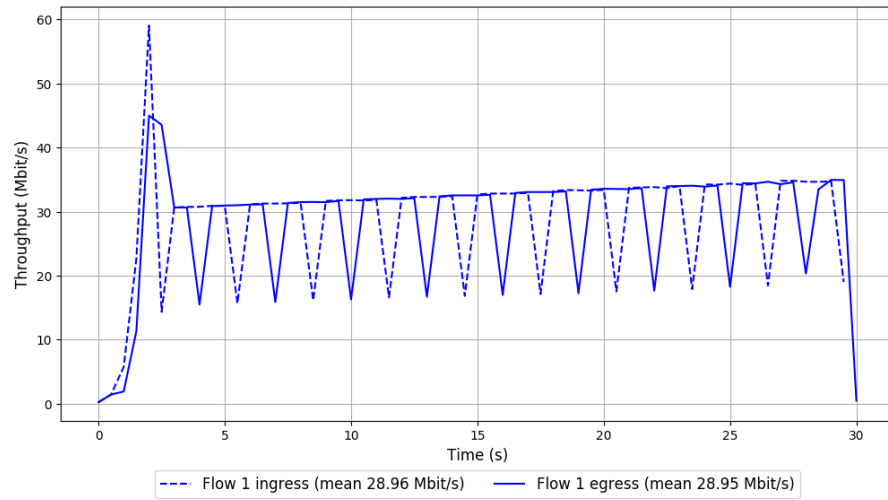
-- Flow 1:

Average throughput: 28.95 Mbit/s

95th percentile per-packet one-way delay: 138.441 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-24 22:54:50

End at: 2018-04-24 22:55:20

Below is generated by plot.py at 2018-04-25 00:53:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.59 Mbit/s

95th percentile per-packet one-way delay: 137.663 ms

Loss rate: 0.00%

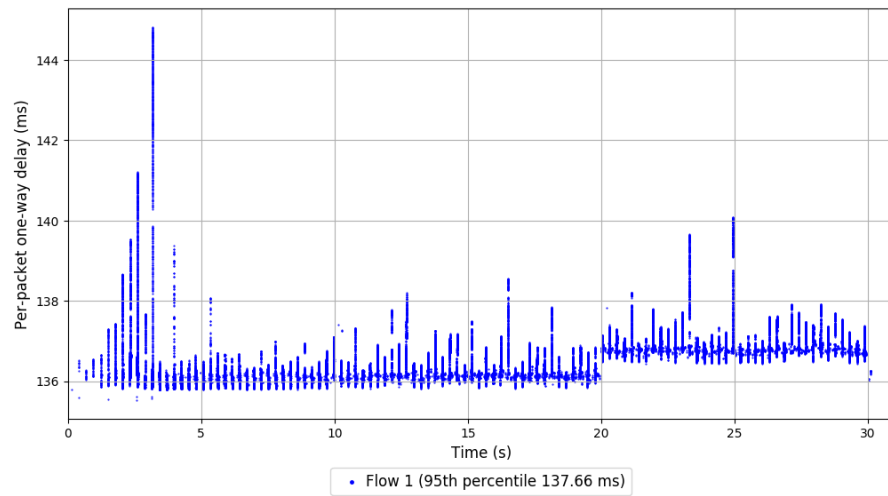
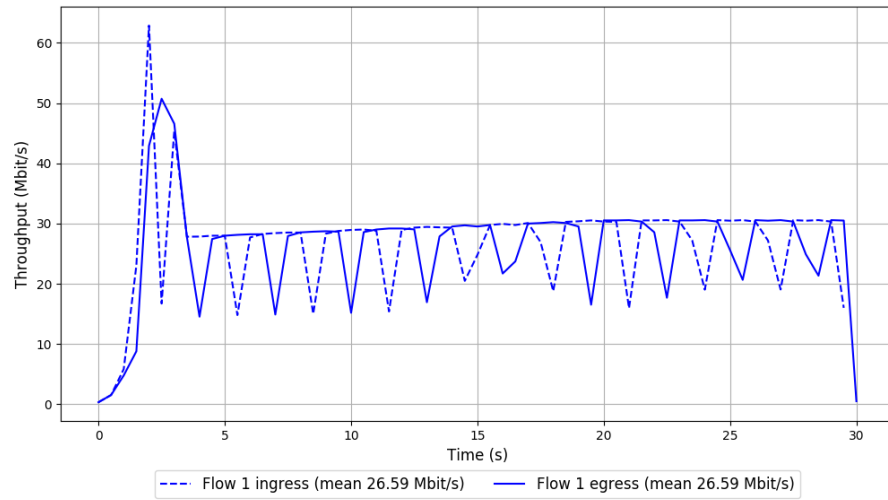
-- Flow 1:

Average throughput: 26.59 Mbit/s

95th percentile per-packet one-way delay: 137.663 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-04-24 23:09:24

End at: 2018-04-24 23:09:54

Below is generated by plot.py at 2018-04-25 00:53:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.91 Mbit/s

95th percentile per-packet one-way delay: 145.500 ms

Loss rate: 0.00%

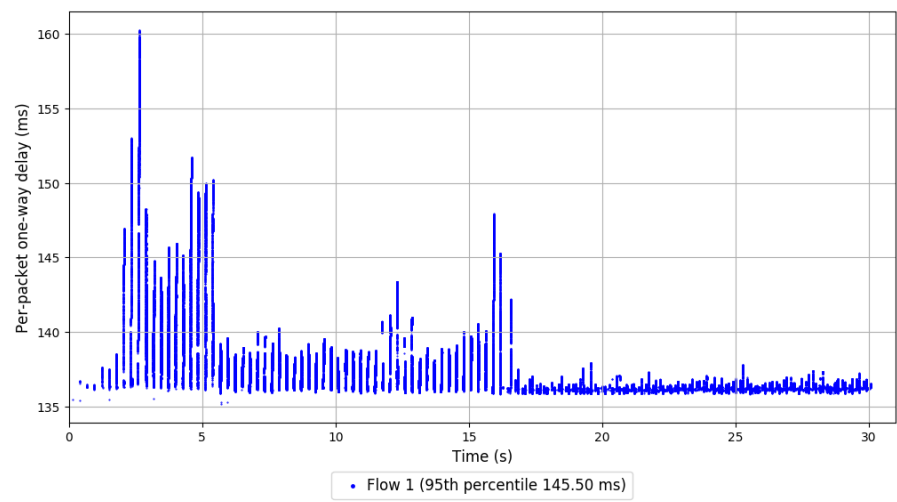
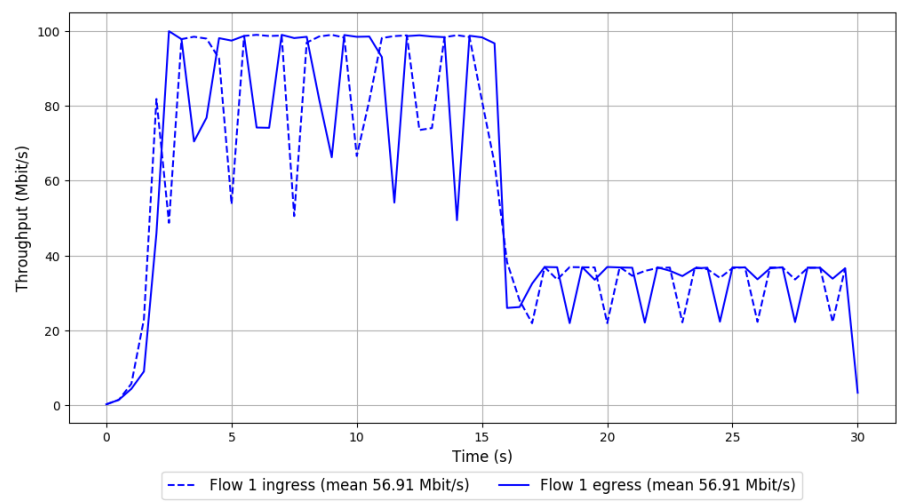
-- Flow 1:

Average throughput: 56.91 Mbit/s

95th percentile per-packet one-way delay: 145.500 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-24 23:23:57

End at: 2018-04-24 23:24:27

Below is generated by plot.py at 2018-04-25 00:53:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.92 Mbit/s

95th percentile per-packet one-way delay: 137.151 ms

Loss rate: 0.00%

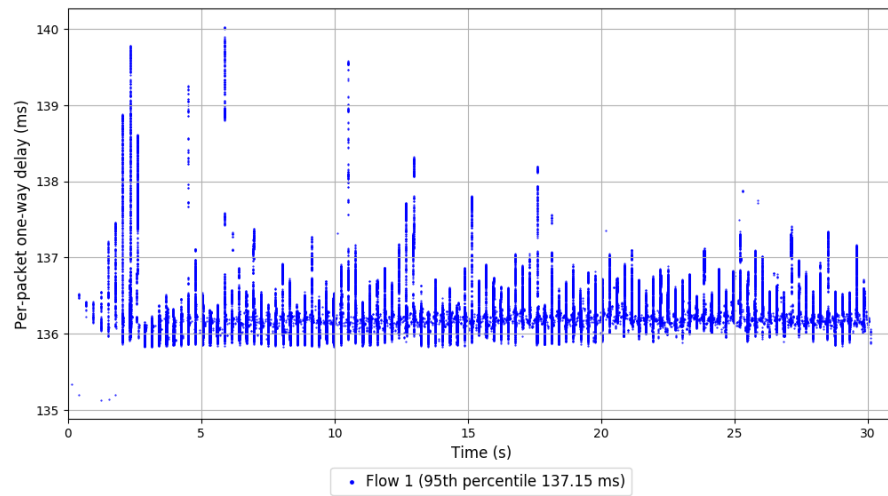
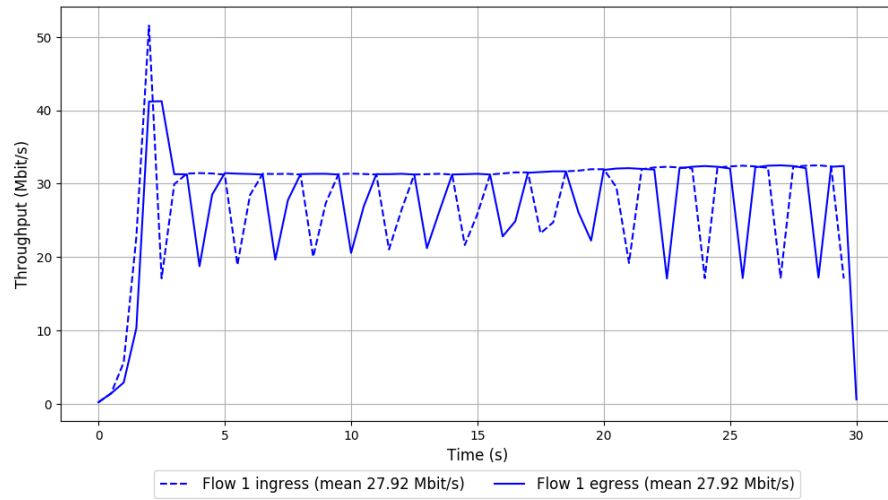
-- Flow 1:

Average throughput: 27.92 Mbit/s

95th percentile per-packet one-way delay: 137.151 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-04-24 21:16:51

End at: 2018-04-24 21:17:21

Below is generated by plot.py at 2018-04-25 00:53:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.02 Mbit/s

95th percentile per-packet one-way delay: 168.753 ms

Loss rate: 0.00%

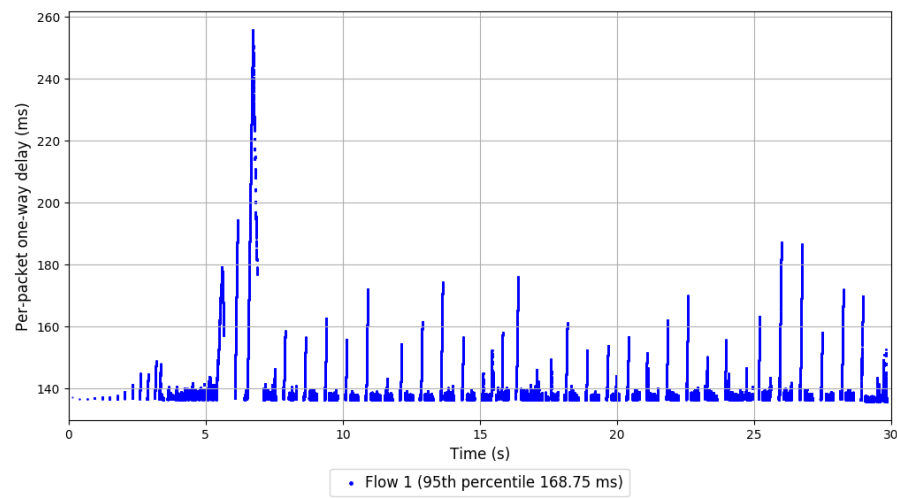
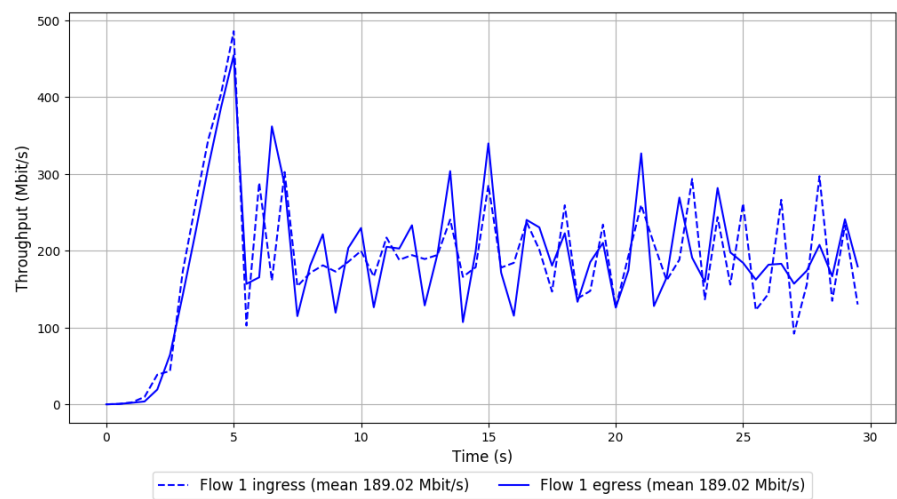
-- Flow 1:

Average throughput: 189.02 Mbit/s

95th percentile per-packet one-way delay: 168.753 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-04-24 21:31:29

End at: 2018-04-24 21:31:59

Below is generated by plot.py at 2018-04-25 00:53:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.66 Mbit/s

95th percentile per-packet one-way delay: 150.620 ms

Loss rate: 0.00%

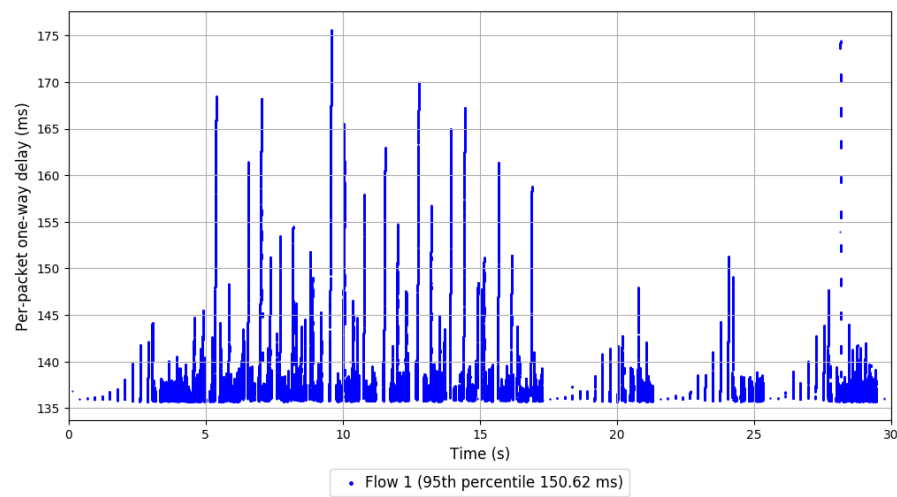
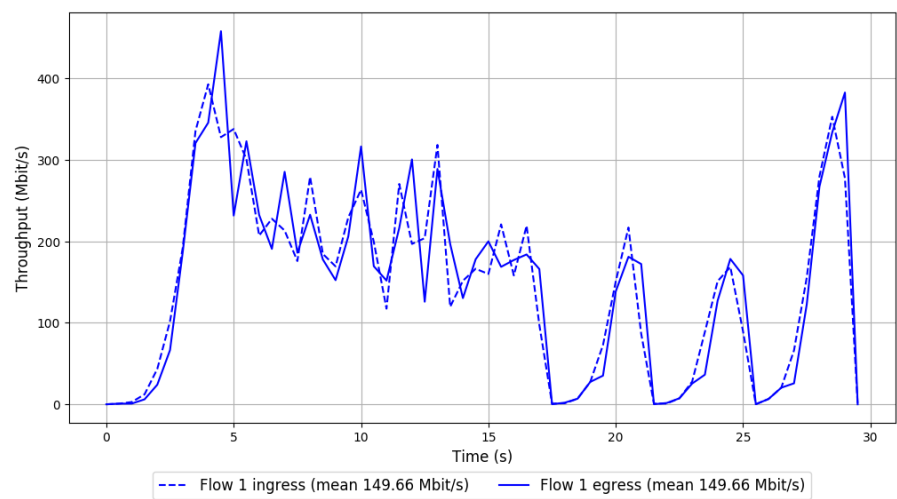
-- Flow 1:

Average throughput: 149.66 Mbit/s

95th percentile per-packet one-way delay: 150.620 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-24 21:45:41

End at: 2018-04-24 21:46:11

Below is generated by plot.py at 2018-04-25 00:53:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.13 Mbit/s

95th percentile per-packet one-way delay: 201.310 ms

Loss rate: 0.07%

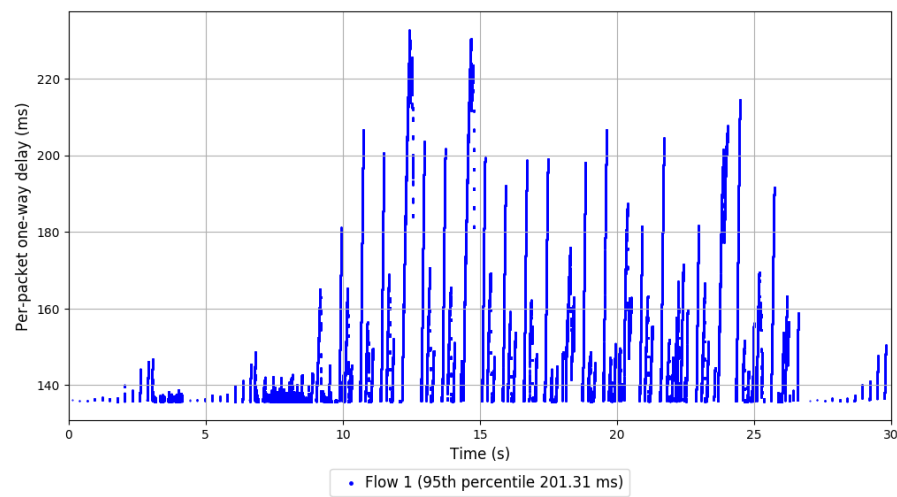
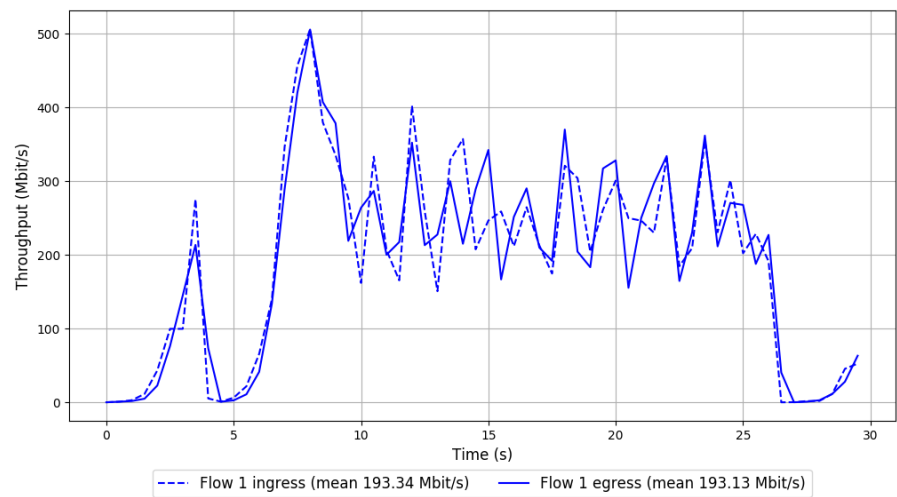
-- Flow 1:

Average throughput: 193.13 Mbit/s

95th percentile per-packet one-way delay: 201.310 ms

Loss rate: 0.07%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-04-24 22:00:15

End at: 2018-04-24 22:00:45

Below is generated by plot.py at 2018-04-25 00:53:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 114.42 Mbit/s

95th percentile per-packet one-way delay: 176.098 ms

Loss rate: 0.01%

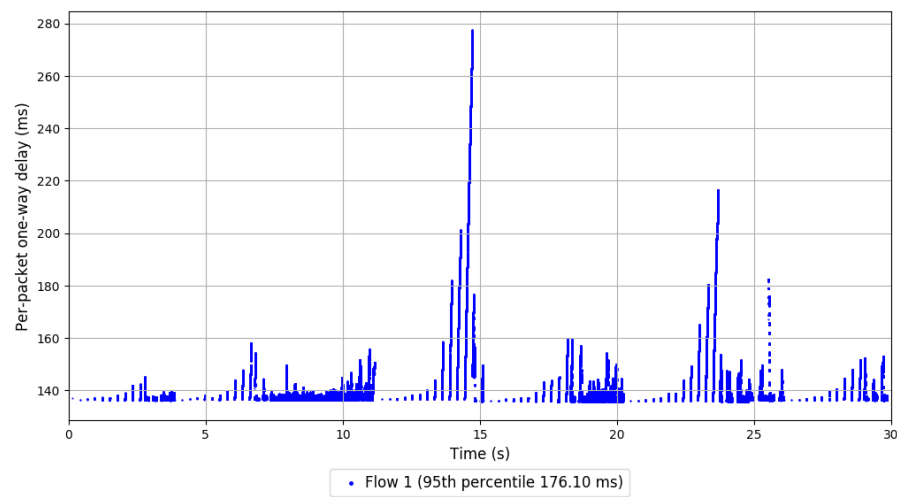
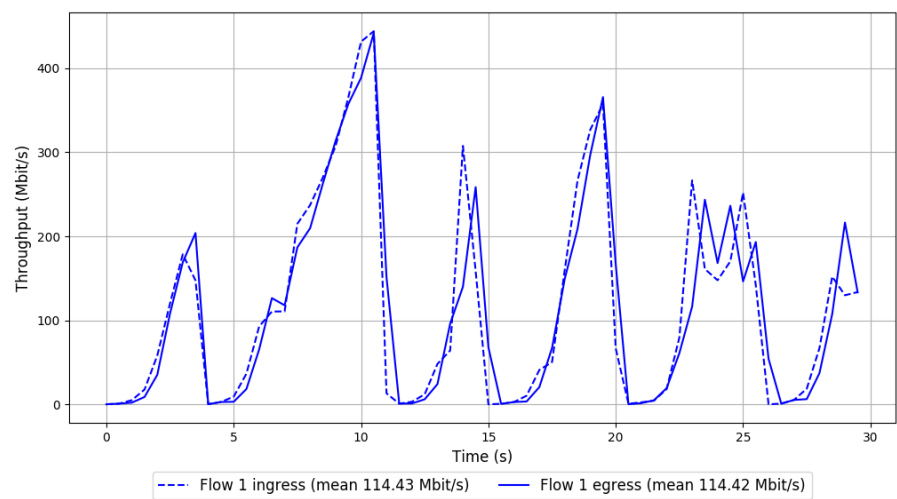
-- Flow 1:

Average throughput: 114.42 Mbit/s

95th percentile per-packet one-way delay: 176.098 ms

Loss rate: 0.01%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-24 22:14:48

End at: 2018-04-24 22:15:18

Below is generated by plot.py at 2018-04-25 00:53:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.71 Mbit/s

95th percentile per-packet one-way delay: 177.727 ms

Loss rate: 0.00%

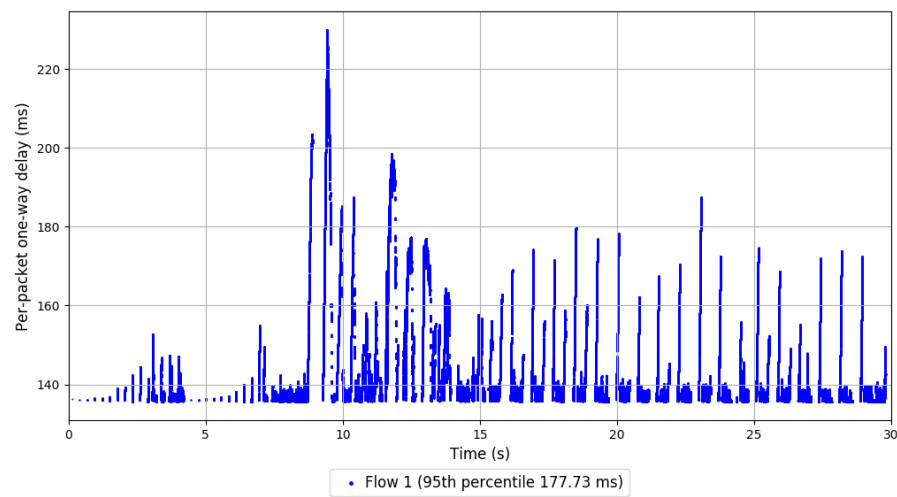
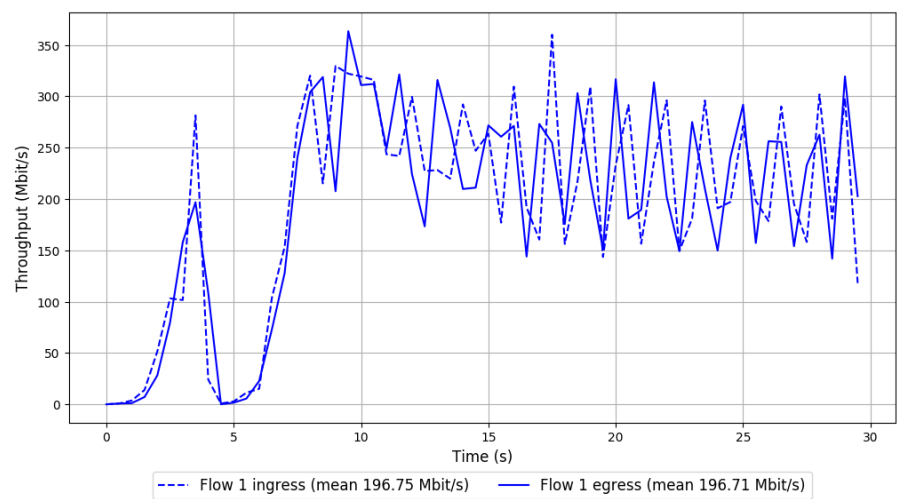
-- Flow 1:

Average throughput: 196.71 Mbit/s

95th percentile per-packet one-way delay: 177.727 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-24 22:29:26

End at: 2018-04-24 22:29:56

Below is generated by plot.py at 2018-04-25 00:53:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.19 Mbit/s

95th percentile per-packet one-way delay: 180.721 ms

Loss rate: 0.00%

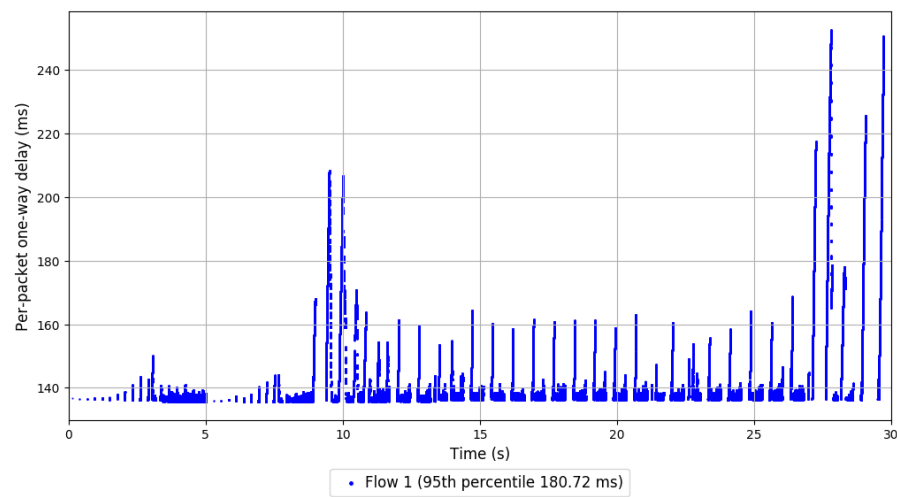
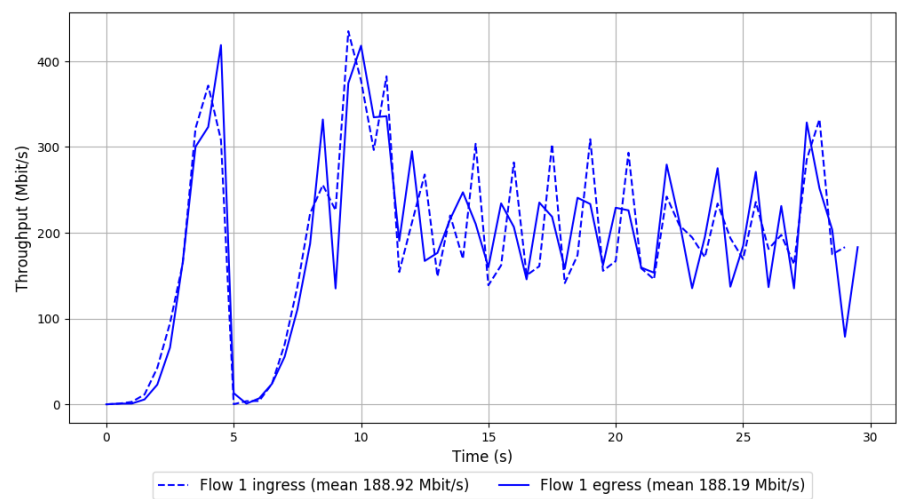
-- Flow 1:

Average throughput: 188.19 Mbit/s

95th percentile per-packet one-way delay: 180.721 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-04-24 22:43:47

End at: 2018-04-24 22:44:17

Below is generated by plot.py at 2018-04-25 00:53:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.47 Mbit/s

95th percentile per-packet one-way delay: 179.404 ms

Loss rate: 0.01%

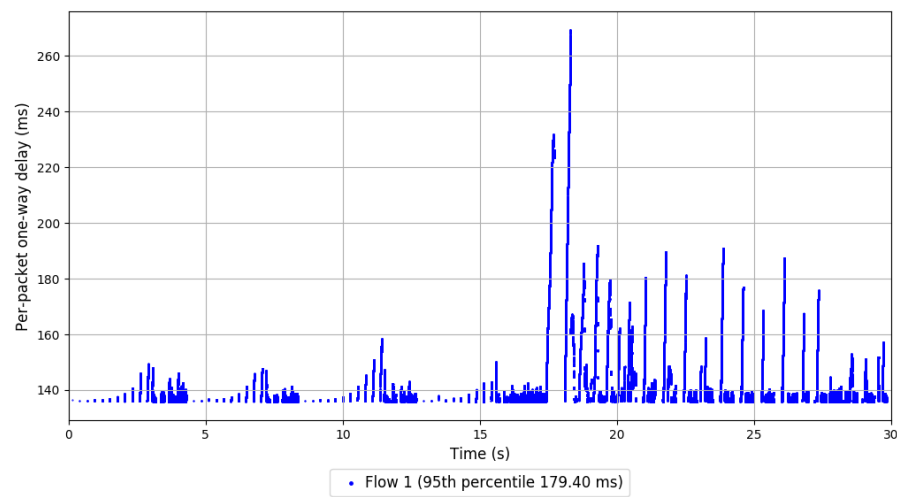
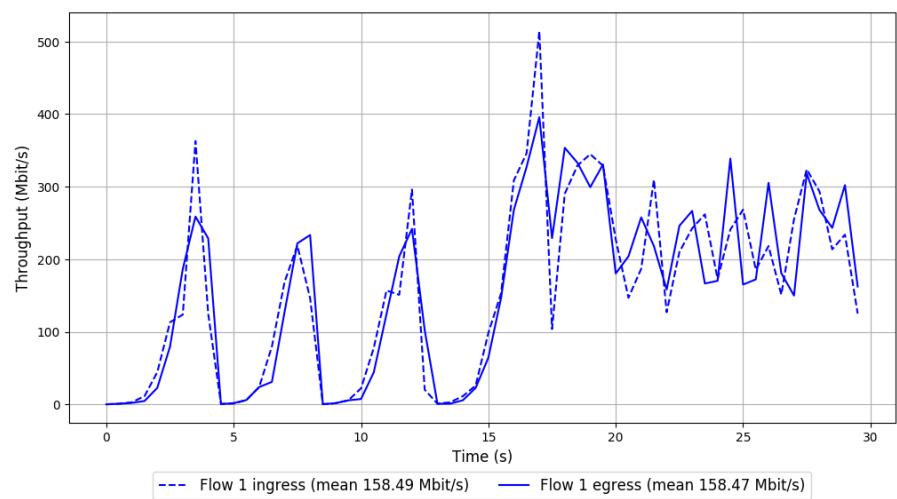
-- Flow 1:

Average throughput: 158.47 Mbit/s

95th percentile per-packet one-way delay: 179.404 ms

Loss rate: 0.01%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-04-24 22:58:22

End at: 2018-04-24 22:58:52

Below is generated by plot.py at 2018-04-25 00:53:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 145.52 Mbit/s

95th percentile per-packet one-way delay: 150.466 ms

Loss rate: 0.07%

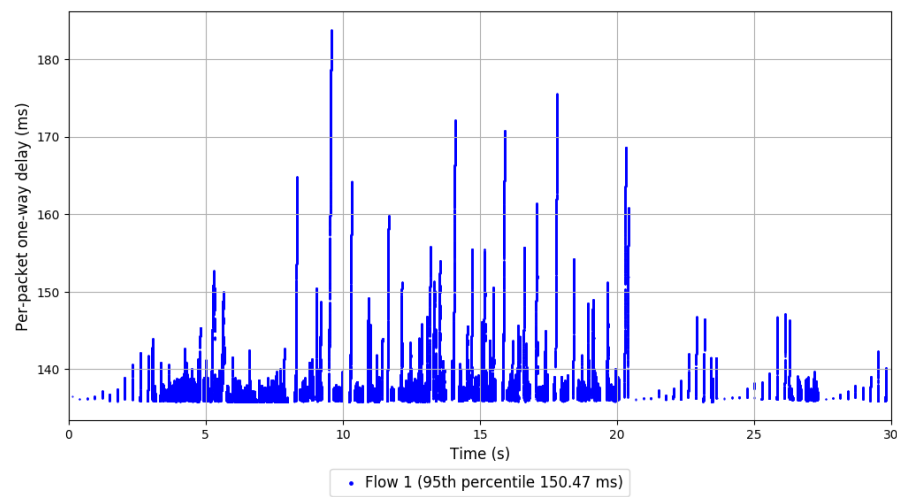
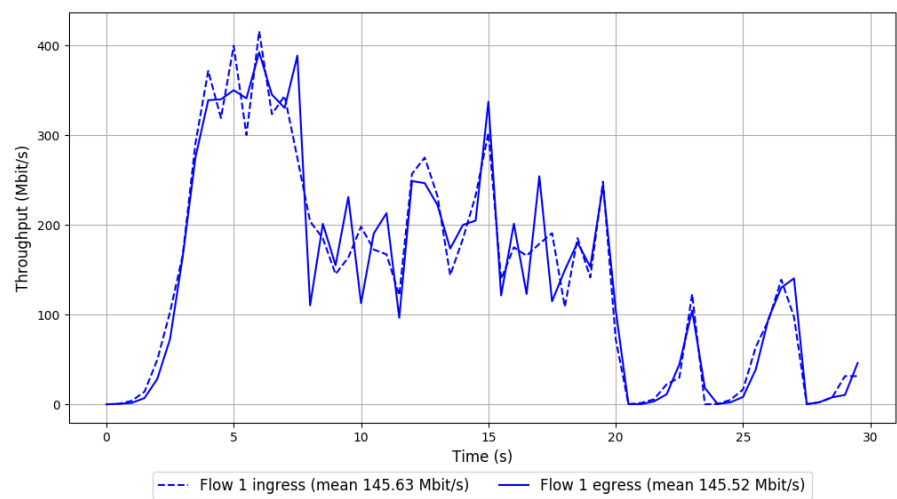
-- Flow 1:

Average throughput: 145.52 Mbit/s

95th percentile per-packet one-way delay: 150.466 ms

Loss rate: 0.07%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-04-24 23:12:56

End at: 2018-04-24 23:13:26

Below is generated by plot.py at 2018-04-25 00:53:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.73 Mbit/s

95th percentile per-packet one-way delay: 167.188 ms

Loss rate: 0.00%

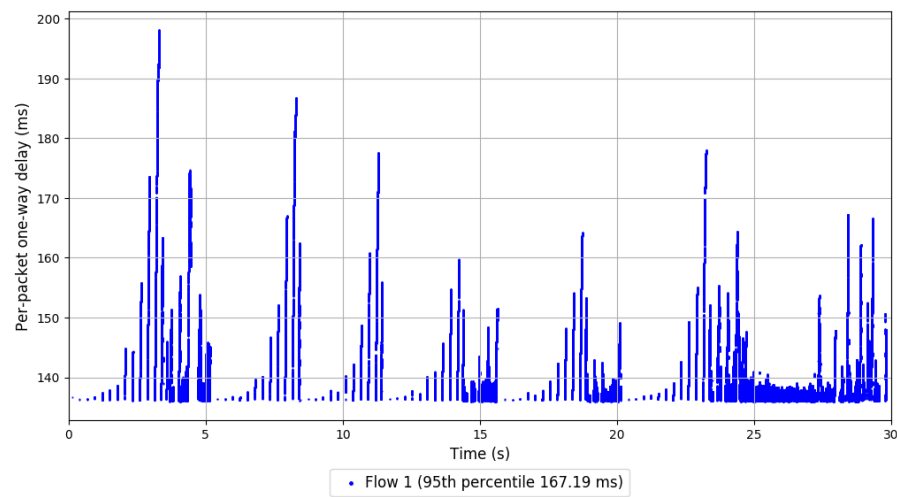
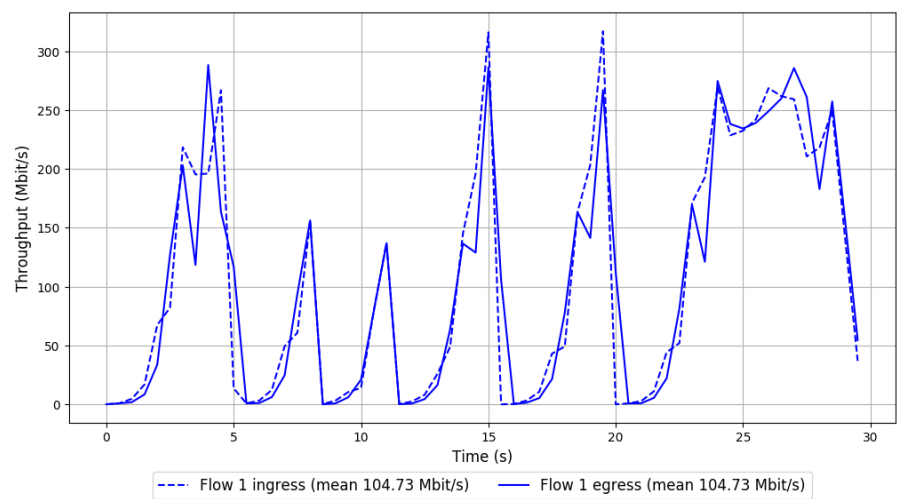
-- Flow 1:

Average throughput: 104.73 Mbit/s

95th percentile per-packet one-way delay: 167.188 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-04-24 23:27:29

End at: 2018-04-24 23:27:59

Below is generated by plot.py at 2018-04-25 00:53:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.05 Mbit/s

95th percentile per-packet one-way delay: 200.119 ms

Loss rate: 0.35%

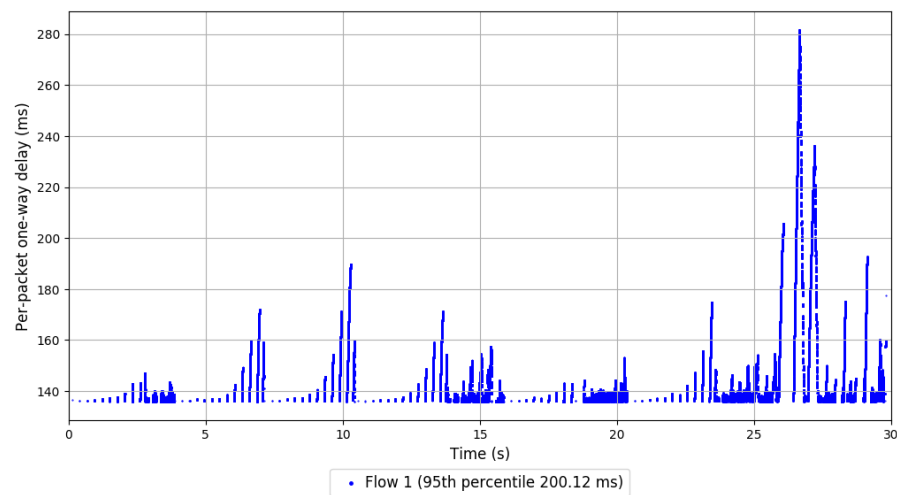
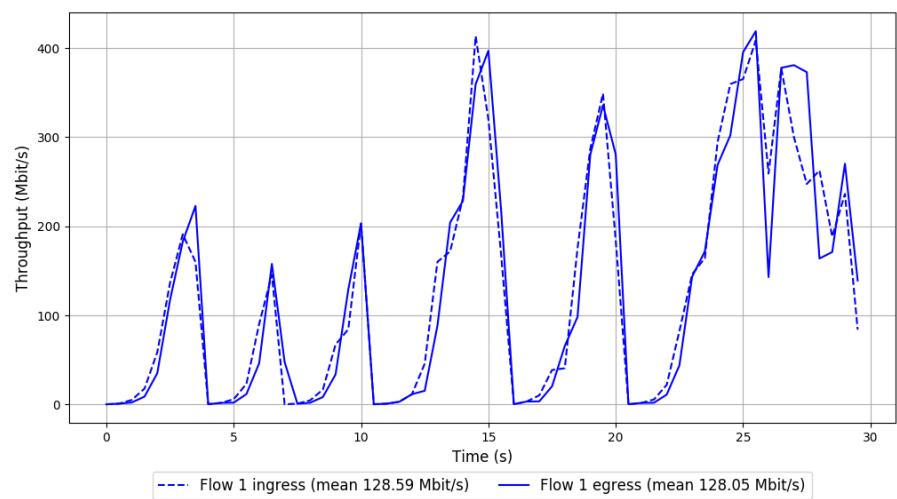
-- Flow 1:

Average throughput: 128.05 Mbit/s

95th percentile per-packet one-way delay: 200.119 ms

Loss rate: 0.35%

Run 10: Report of Verus — Data Link

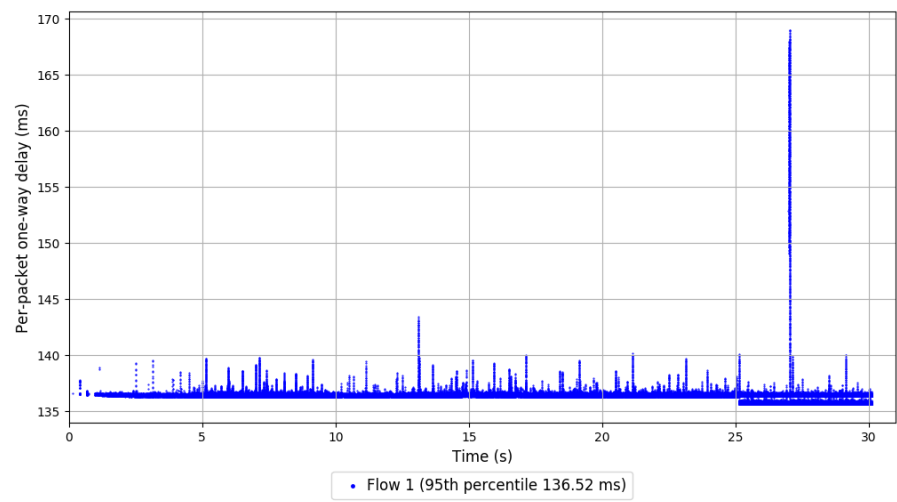
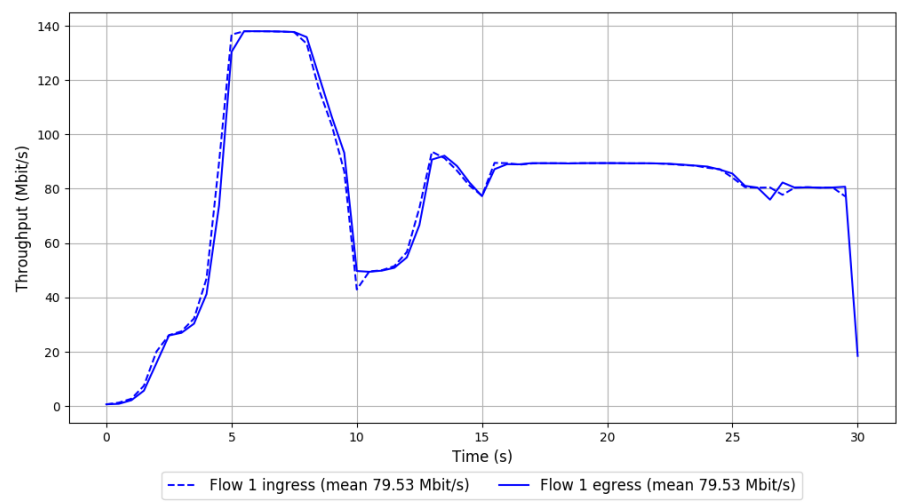


```
Run 1: Statistics of Copa

Start at: 2018-04-24 21:11:05
End at: 2018-04-24 21:11:35

# Below is generated by plot.py at 2018-04-25 00:53:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.53 Mbit/s
95th percentile per-packet one-way delay: 136.516 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 79.53 Mbit/s
95th percentile per-packet one-way delay: 136.516 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-04-24 21:25:37

End at: 2018-04-24 21:26:07

Below is generated by plot.py at 2018-04-25 00:53:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.63 Mbit/s

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

Loss rate: 0.00%

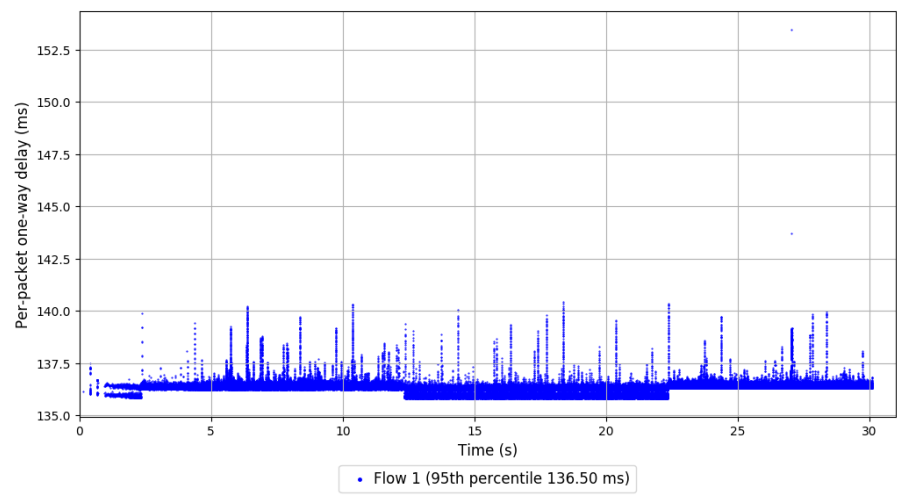
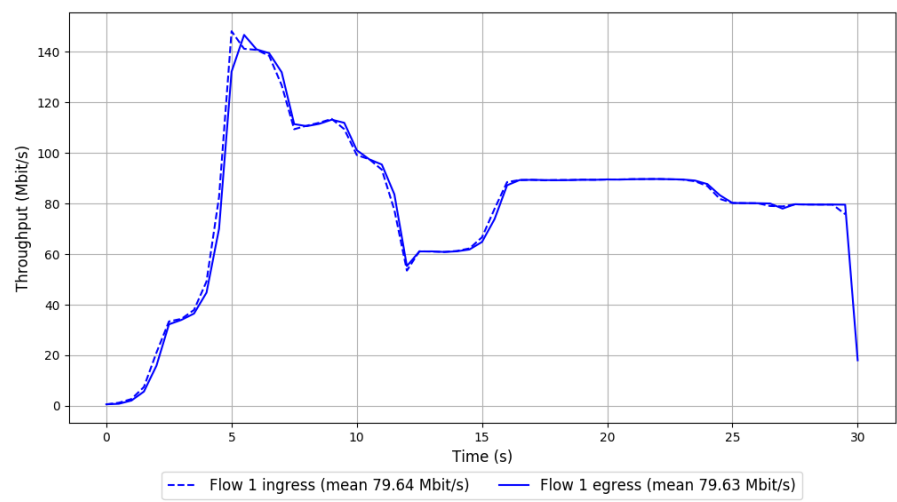
-- Flow 1:

Average throughput: 79.63 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-04-24 21:39:48

End at: 2018-04-24 21:40:18

Below is generated by plot.py at 2018-04-25 00:53:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.80 Mbit/s

95th percentile per-packet one-way delay: 136.463 ms

Loss rate: 0.00%

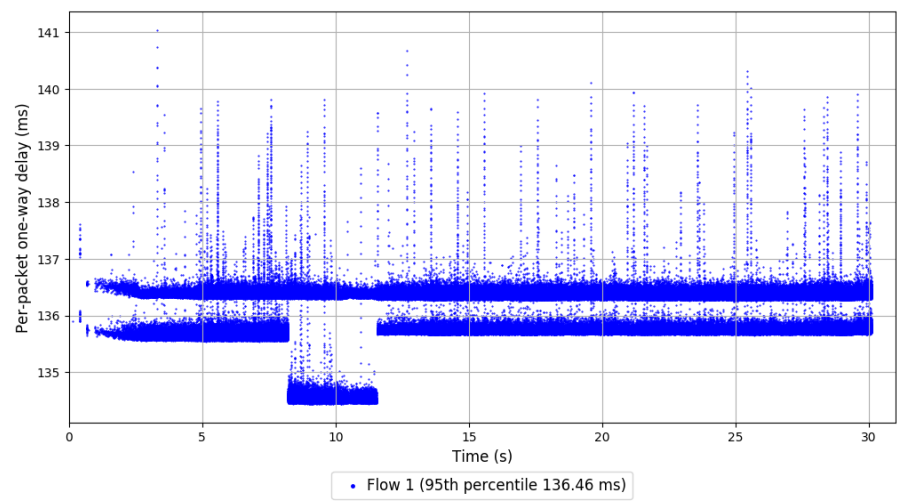
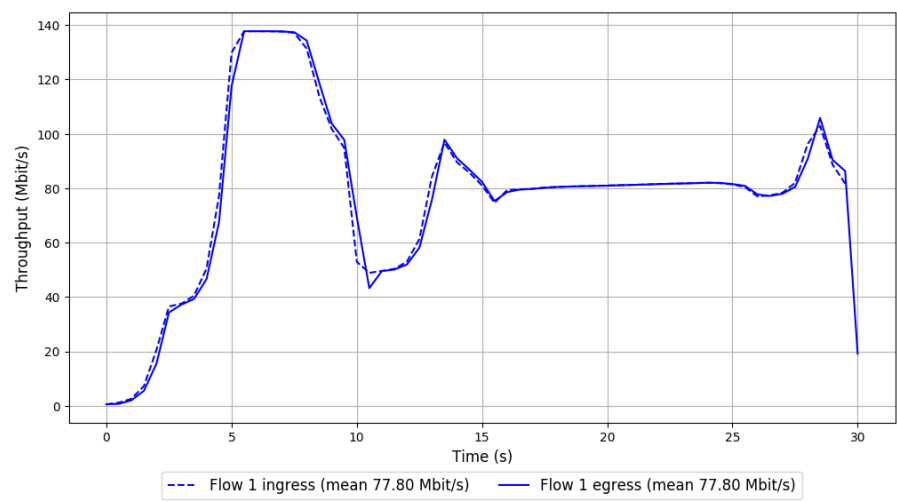
-- Flow 1:

Average throughput: 77.80 Mbit/s

95th percentile per-packet one-way delay: 136.463 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-04-24 21:54:29

End at: 2018-04-24 21:54:59

Below is generated by plot.py at 2018-04-25 00:53:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.35 Mbit/s

95th percentile per-packet one-way delay: 136.869 ms

Loss rate: 0.00%

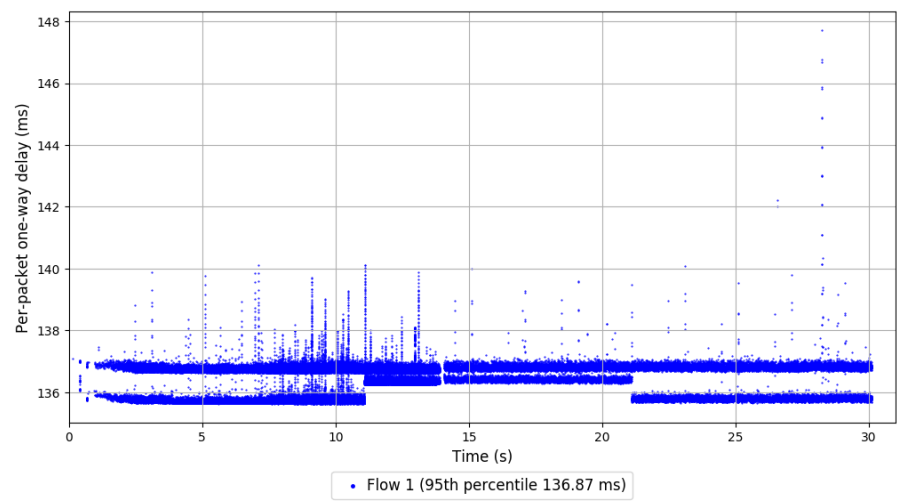
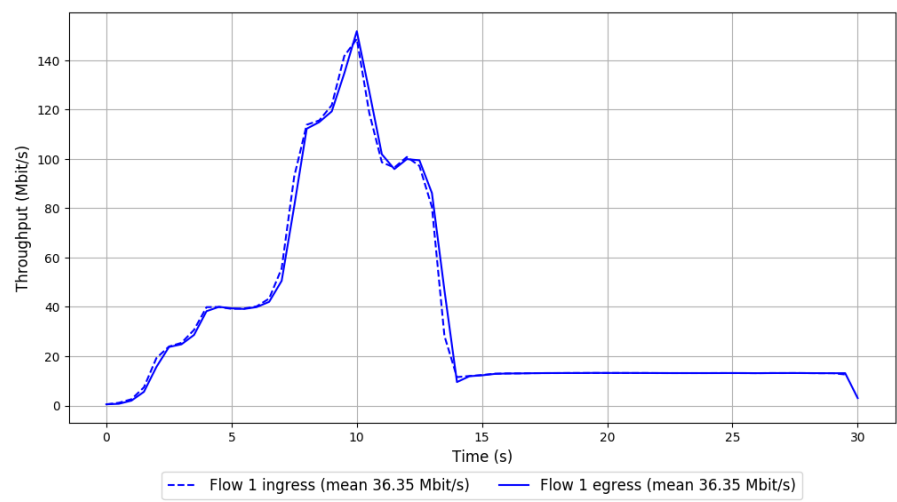
-- Flow 1:

Average throughput: 36.35 Mbit/s

95th percentile per-packet one-way delay: 136.869 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-04-24 22:08:59

End at: 2018-04-24 22:09:29

Below is generated by plot.py at 2018-04-25 00:54:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.36 Mbit/s

95th percentile per-packet one-way delay: 136.266 ms

Loss rate: 0.00%

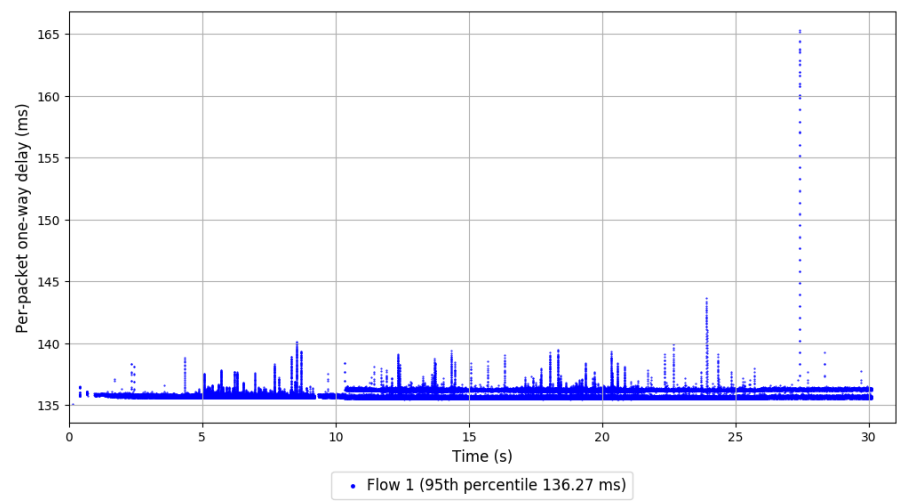
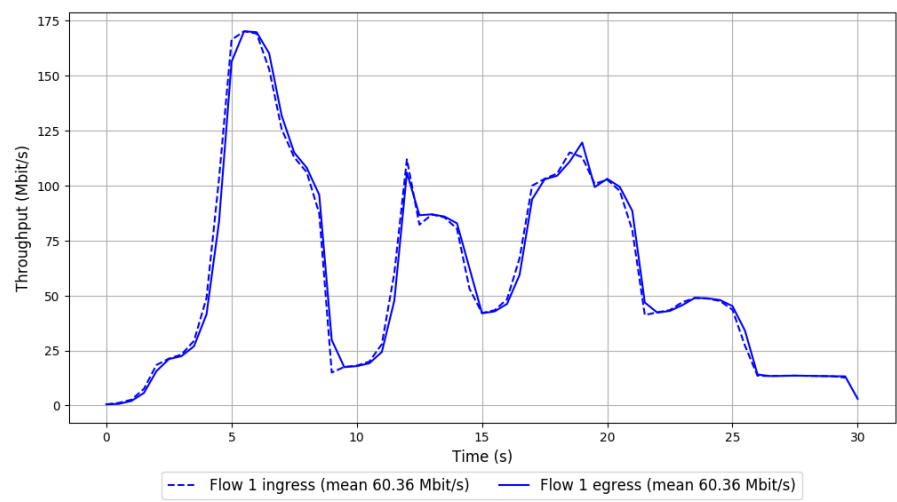
-- Flow 1:

Average throughput: 60.36 Mbit/s

95th percentile per-packet one-way delay: 136.266 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-04-24 22:23:35

End at: 2018-04-24 22:24:05

Below is generated by plot.py at 2018-04-25 00:54:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.91 Mbit/s

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

Loss rate: 0.00%

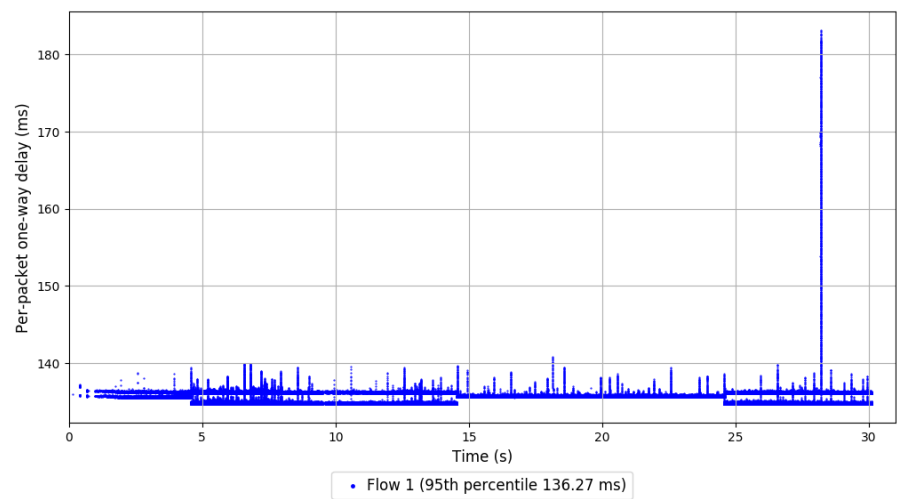
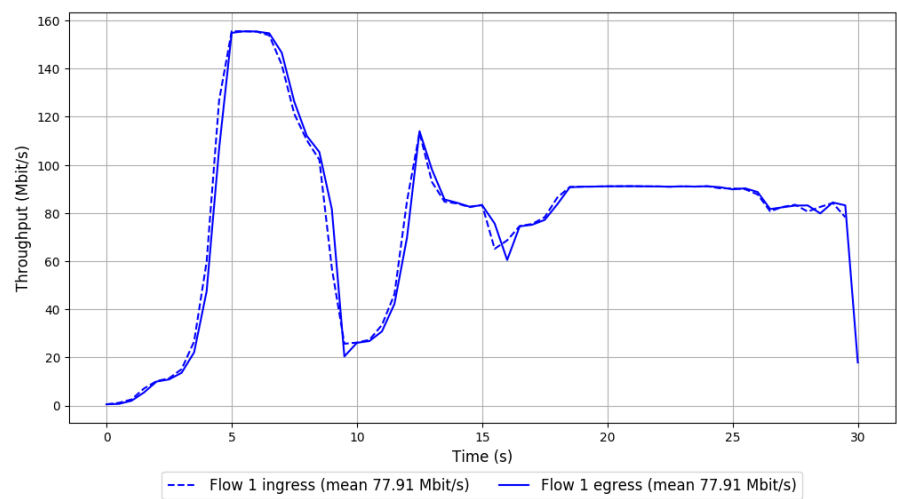
-- Flow 1:

Average throughput: 77.91 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-04-24 22:37:58

End at: 2018-04-24 22:38:28

Below is generated by plot.py at 2018-04-25 00:54:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.73 Mbit/s

95th percentile per-packet one-way delay: 136.344 ms

Loss rate: 0.00%

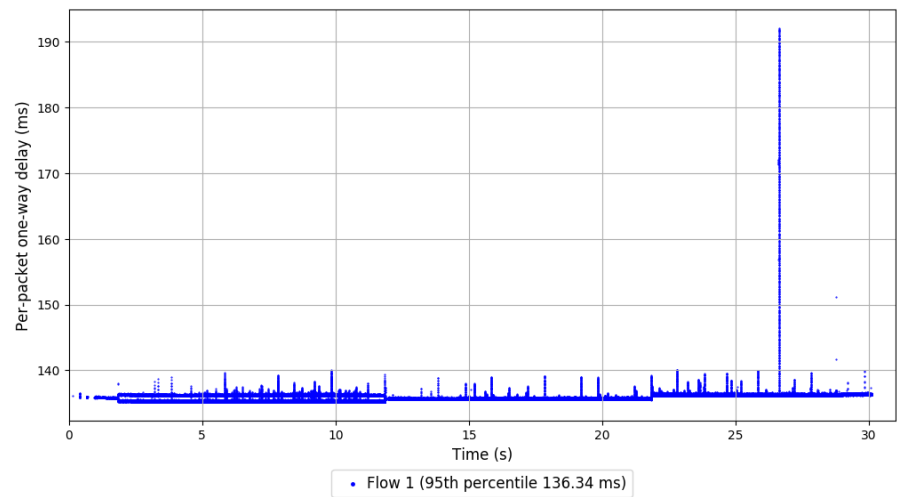
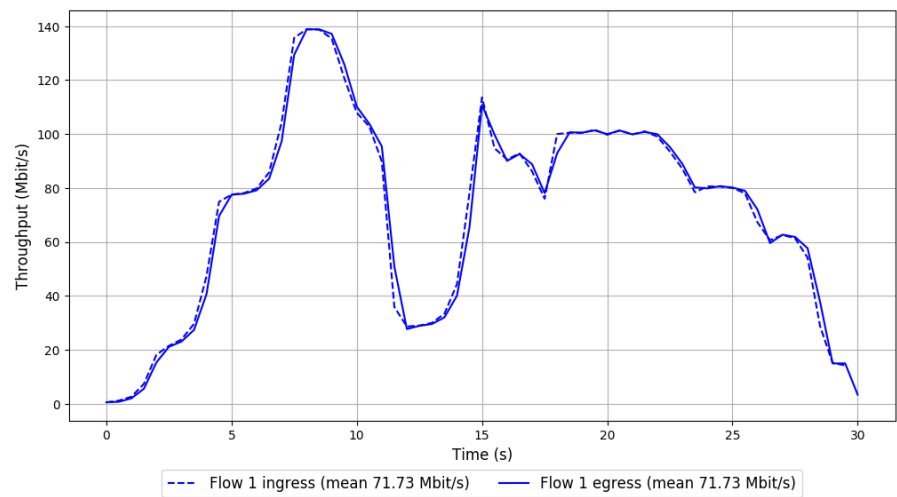
-- Flow 1:

Average throughput: 71.73 Mbit/s

95th percentile per-packet one-way delay: 136.344 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-24 22:52:30

End at: 2018-04-24 22:53:00

Below is generated by plot.py at 2018-04-25 00:55:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.31 Mbit/s

95th percentile per-packet one-way delay: 136.016 ms

Loss rate: 0.00%

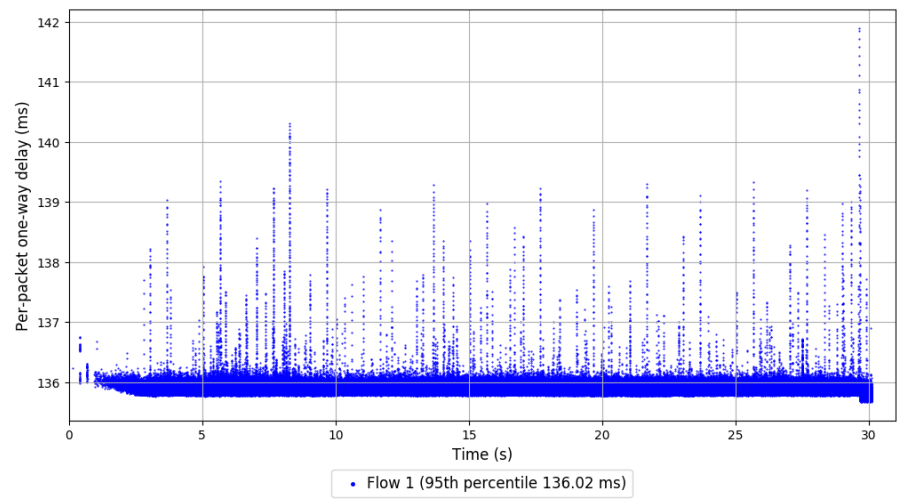
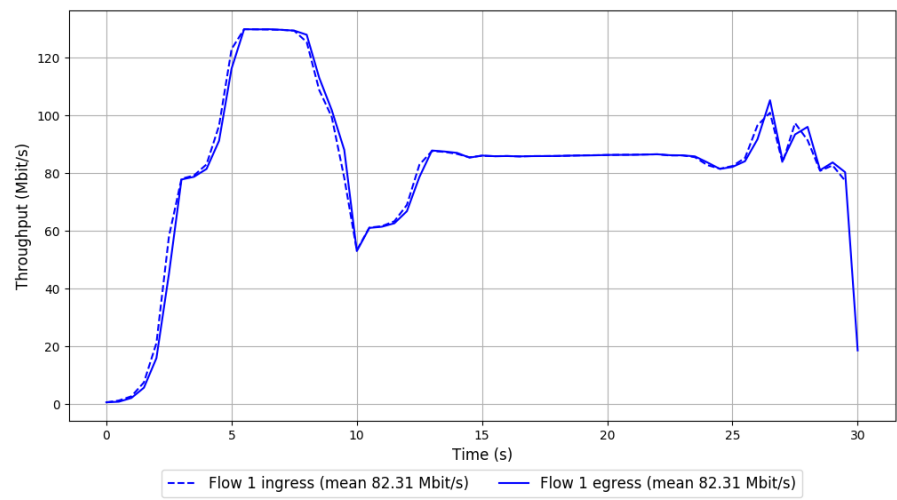
-- Flow 1:

Average throughput: 82.31 Mbit/s

95th percentile per-packet one-way delay: 136.016 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-24 23:07:06

End at: 2018-04-24 23:07:36

Below is generated by plot.py at 2018-04-25 00:55:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.45 Mbit/s

95th percentile per-packet one-way delay: 136.527 ms

Loss rate: 0.00%

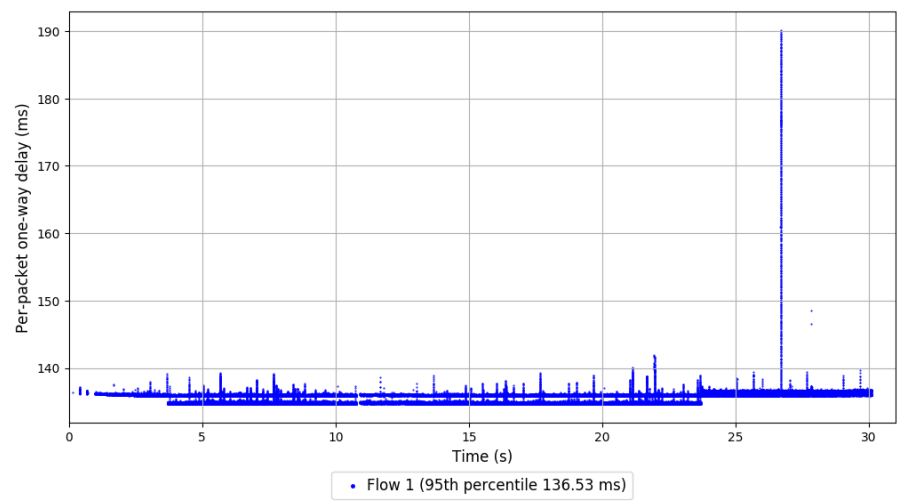
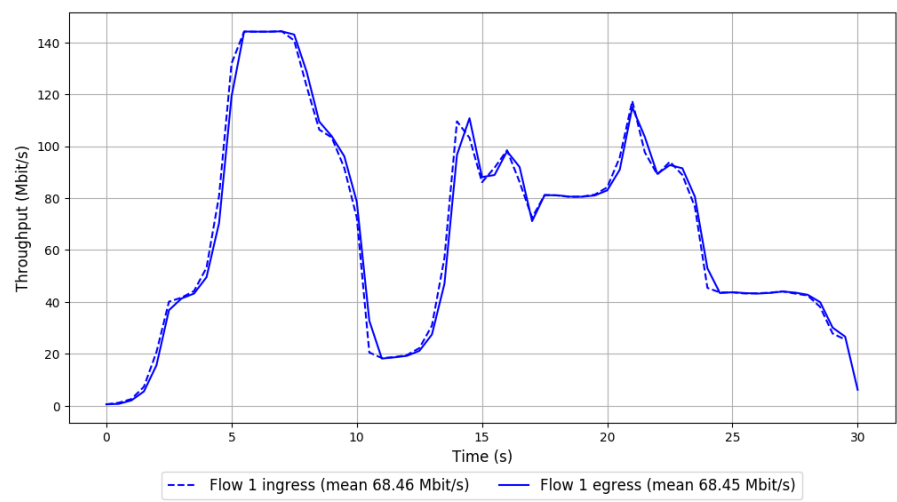
-- Flow 1:

Average throughput: 68.45 Mbit/s

95th percentile per-packet one-way delay: 136.527 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-24 23:21:39

End at: 2018-04-24 23:22:09

Below is generated by plot.py at 2018-04-25 00:55:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.51 Mbit/s

95th percentile per-packet one-way delay: 136.065 ms

Loss rate: 0.00%

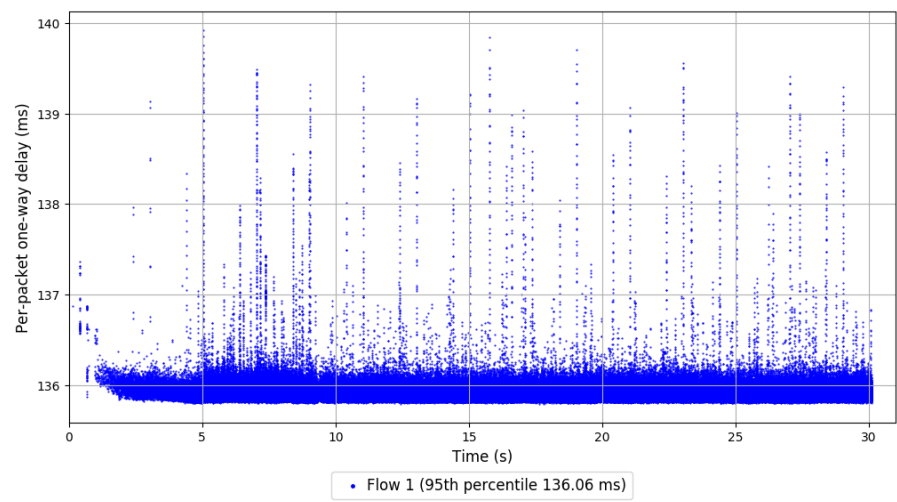
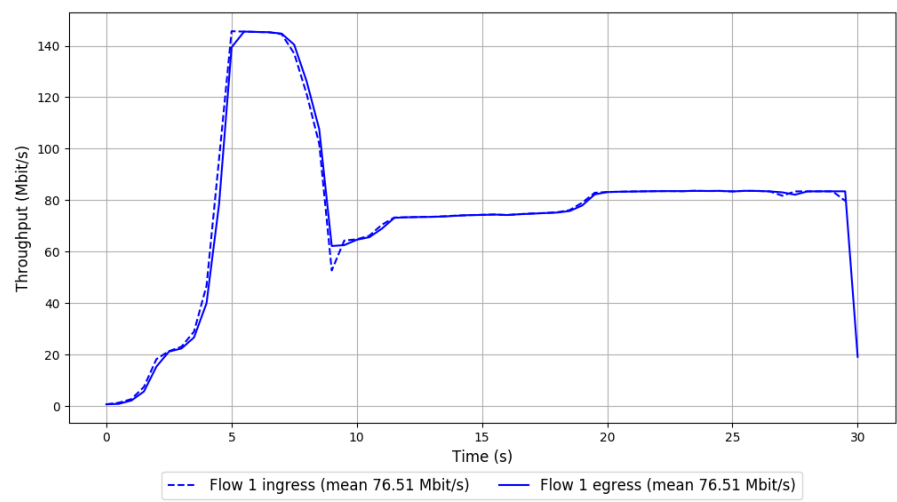
-- Flow 1:

Average throughput: 76.51 Mbit/s

95th percentile per-packet one-way delay: 136.065 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

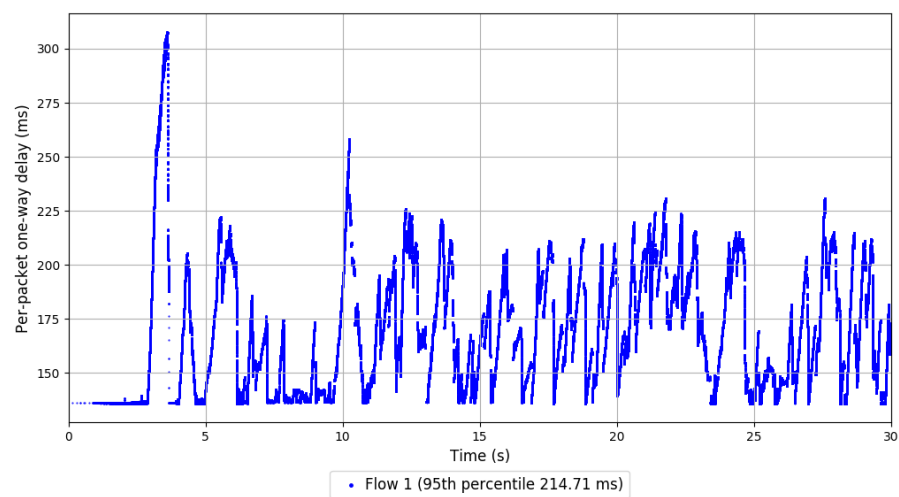
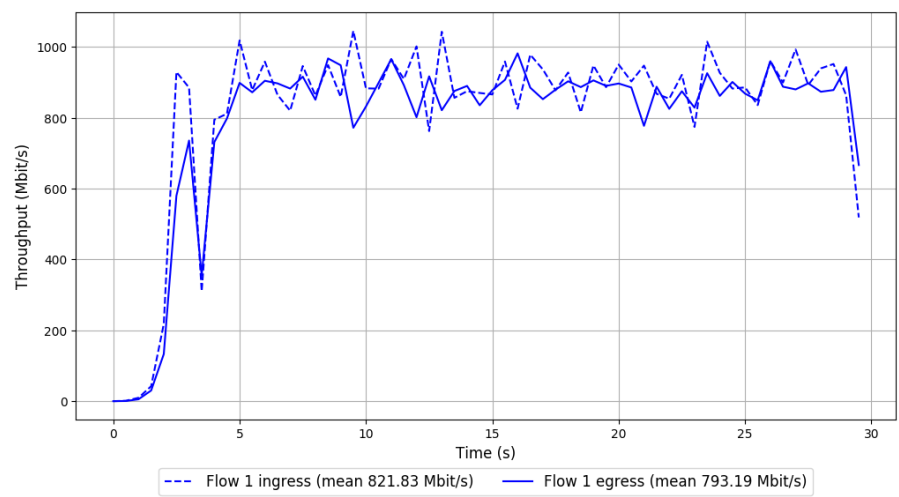


```
Run 1: Statistics of FillP

Start at: 2018-04-24 21:14:03
End at: 2018-04-24 21:14:33

# Below is generated by plot.py at 2018-04-25 01:07:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 793.19 Mbit/s
95th percentile per-packet one-way delay: 214.713 ms
Loss rate: 3.49%
-- Flow 1:
Average throughput: 793.19 Mbit/s
95th percentile per-packet one-way delay: 214.713 ms
Loss rate: 3.49%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-24 21:28:41

End at: 2018-04-24 21:29:12

Below is generated by plot.py at 2018-04-25 01:07:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 792.29 Mbit/s

95th percentile per-packet one-way delay: 211.517 ms

Loss rate: 2.69%

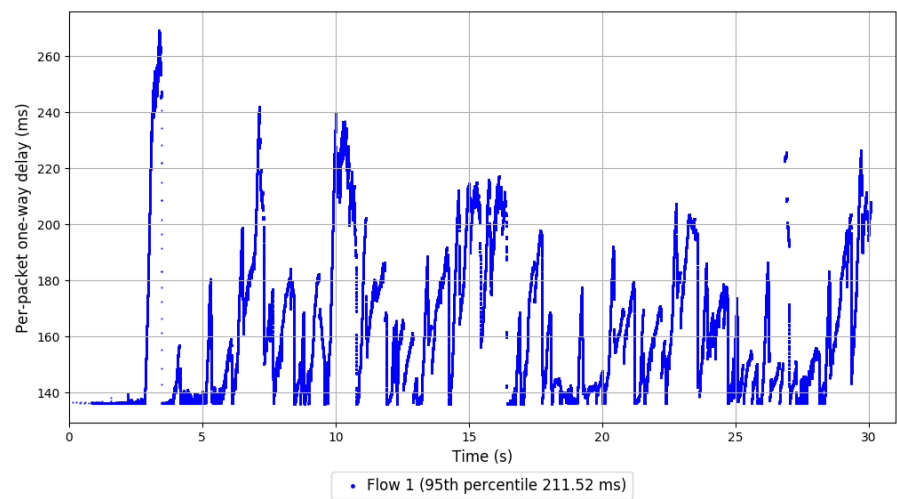
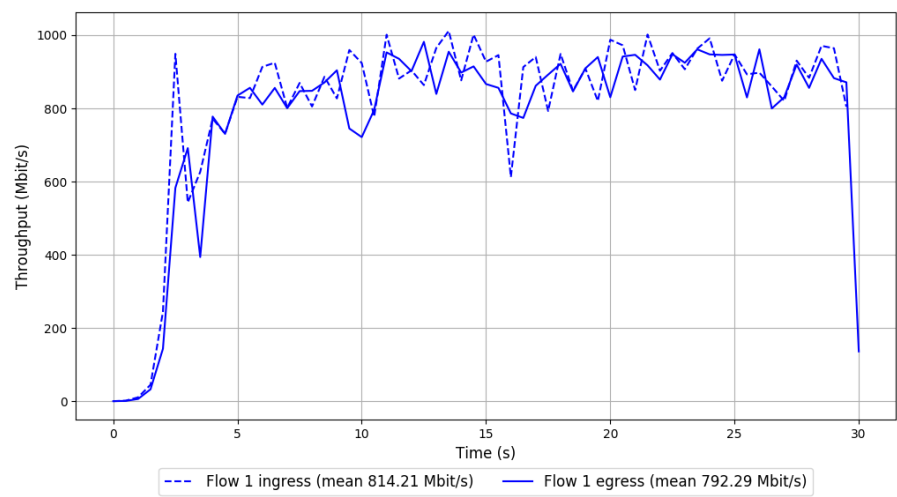
-- Flow 1:

Average throughput: 792.29 Mbit/s

95th percentile per-packet one-way delay: 211.517 ms

Loss rate: 2.69%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-04-24 21:42:53

End at: 2018-04-24 21:43:23

Below is generated by plot.py at 2018-04-25 01:08:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 803.96 Mbit/s

95th percentile per-packet one-way delay: 211.137 ms

Loss rate: 2.05%

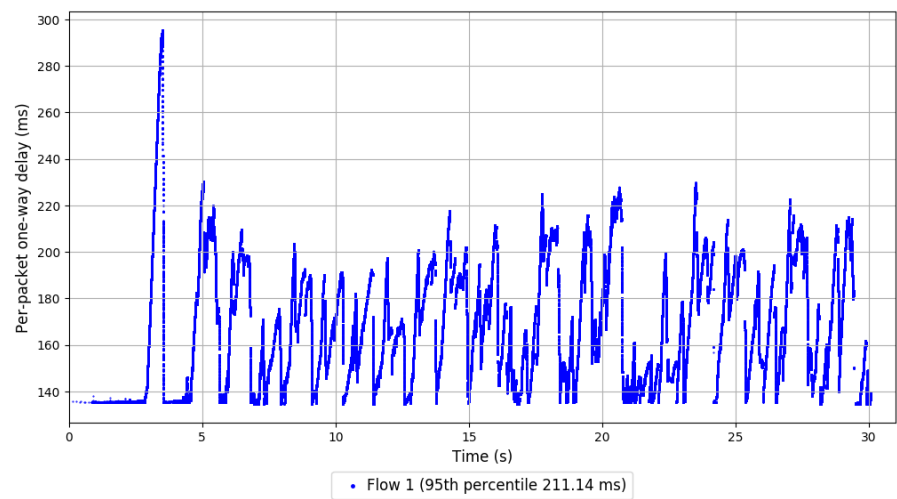
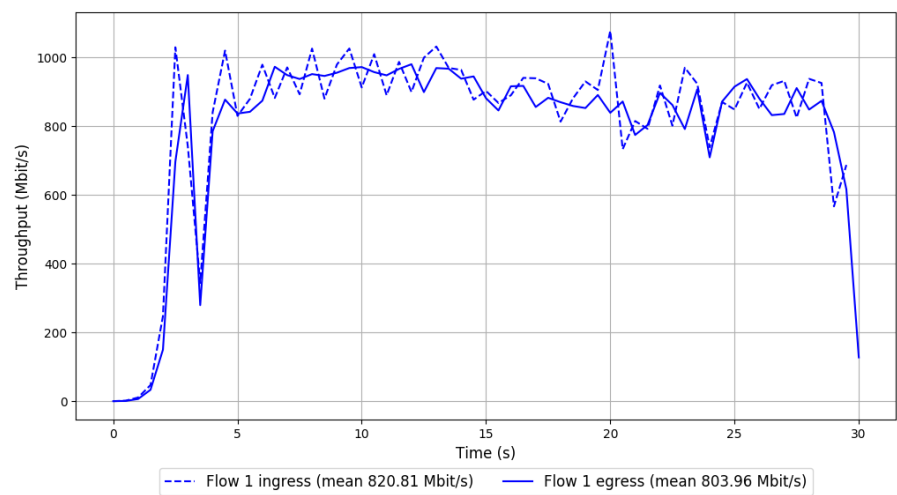
-- Flow 1:

Average throughput: 803.96 Mbit/s

95th percentile per-packet one-way delay: 211.137 ms

Loss rate: 2.05%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-04-24 21:57:28

End at: 2018-04-24 21:57:58

Below is generated by plot.py at 2018-04-25 01:08:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 761.34 Mbit/s

95th percentile per-packet one-way delay: 216.983 ms

Loss rate: 5.14%

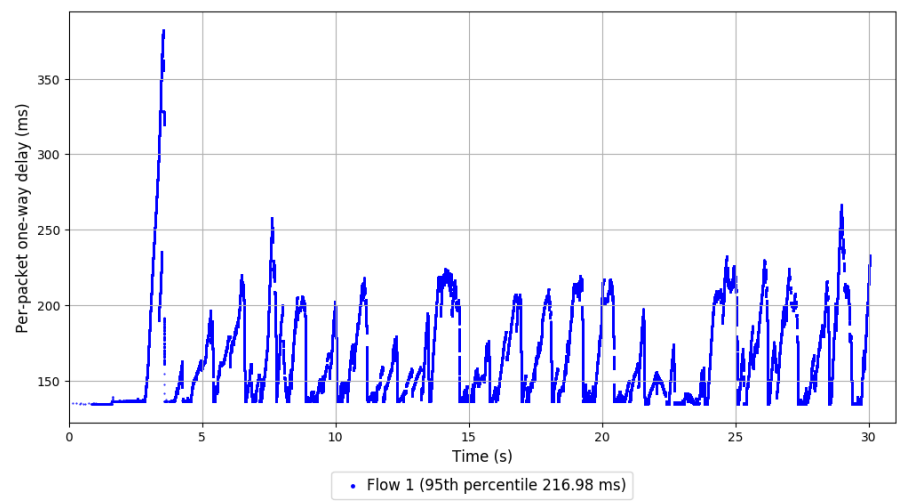
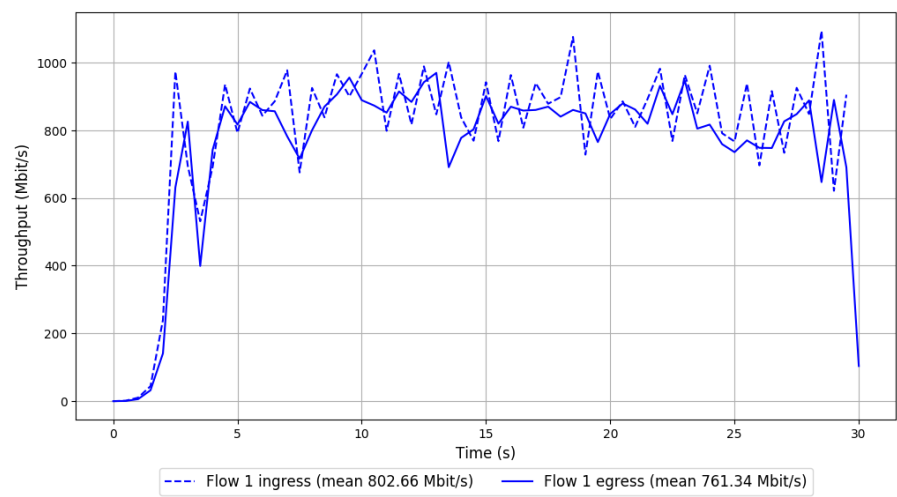
-- Flow 1:

Average throughput: 761.34 Mbit/s

95th percentile per-packet one-way delay: 216.983 ms

Loss rate: 5.14%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-24 22:12:01

End at: 2018-04-24 22:12:31

Below is generated by plot.py at 2018-04-25 01:08:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 794.55 Mbit/s

95th percentile per-packet one-way delay: 212.320 ms

Loss rate: 2.98%

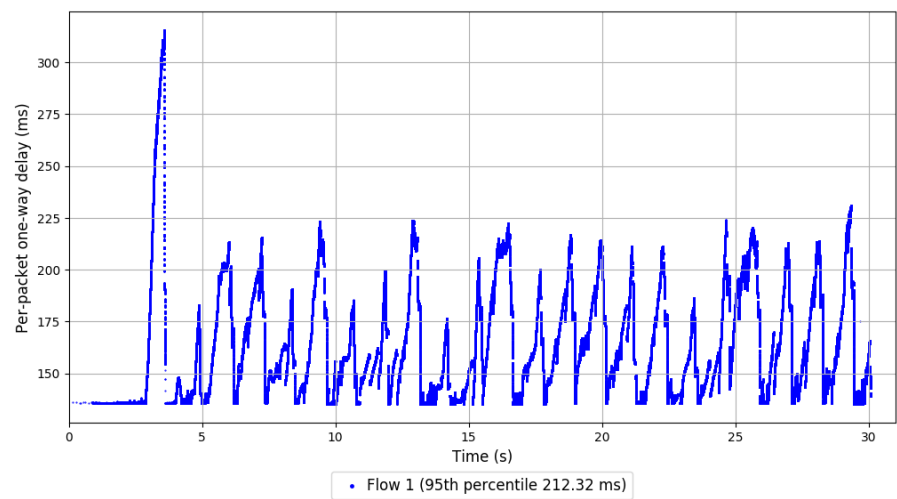
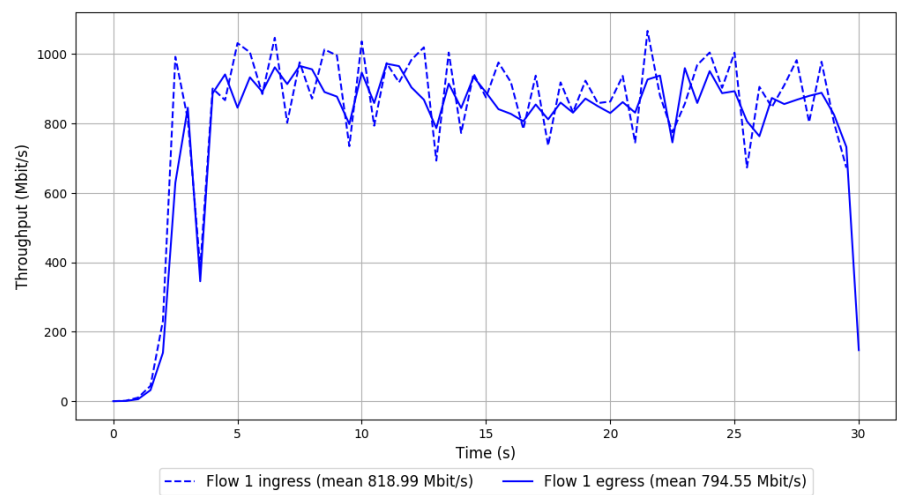
-- Flow 1:

Average throughput: 794.55 Mbit/s

95th percentile per-packet one-way delay: 212.320 ms

Loss rate: 2.98%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-04-24 22:26:38

End at: 2018-04-24 22:27:08

Below is generated by plot.py at 2018-04-25 01:08:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 774.33 Mbit/s

95th percentile per-packet one-way delay: 213.197 ms

Loss rate: 3.89%

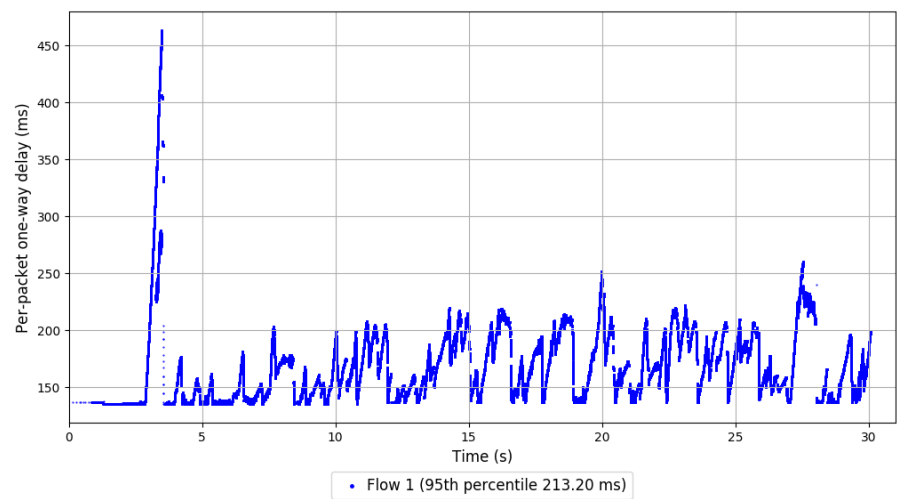
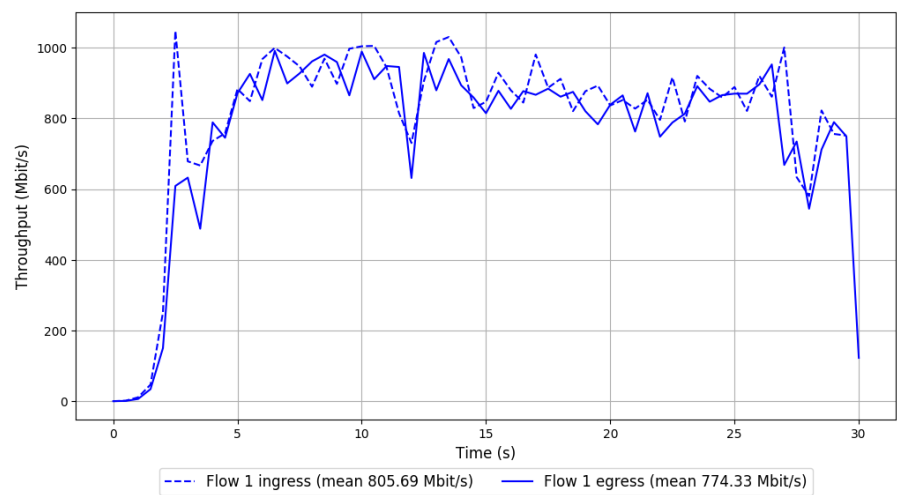
-- Flow 1:

Average throughput: 774.33 Mbit/s

95th percentile per-packet one-way delay: 213.197 ms

Loss rate: 3.89%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-04-24 22:41:00

End at: 2018-04-24 22:41:30

Below is generated by plot.py at 2018-04-25 01:08:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 759.47 Mbit/s

95th percentile per-packet one-way delay: 220.764 ms

Loss rate: 6.53%

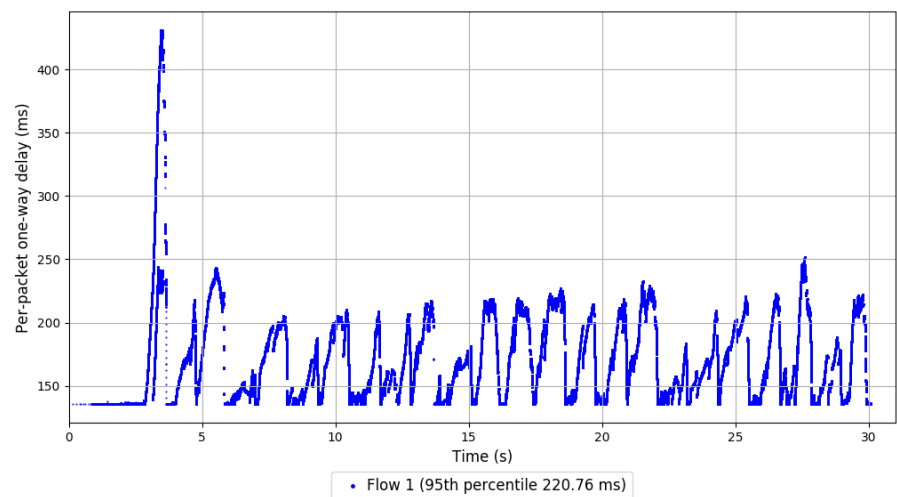
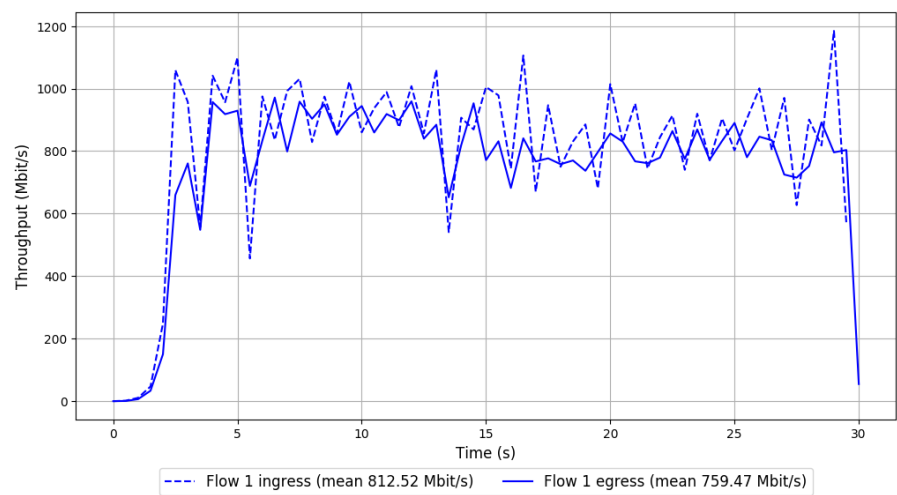
-- Flow 1:

Average throughput: 759.47 Mbit/s

95th percentile per-packet one-way delay: 220.764 ms

Loss rate: 6.53%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-24 22:55:34

End at: 2018-04-24 22:56:04

Below is generated by plot.py at 2018-04-25 01:09:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 787.15 Mbit/s

95th percentile per-packet one-way delay: 214.723 ms

Loss rate: 4.10%

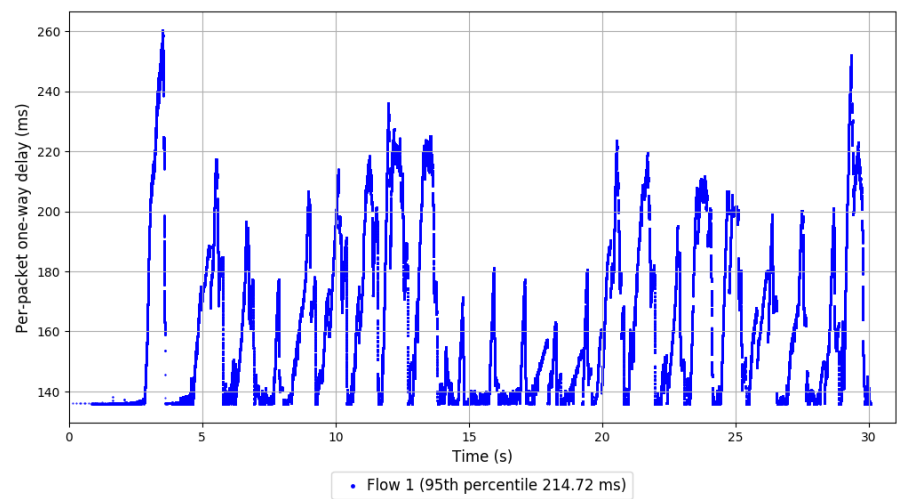
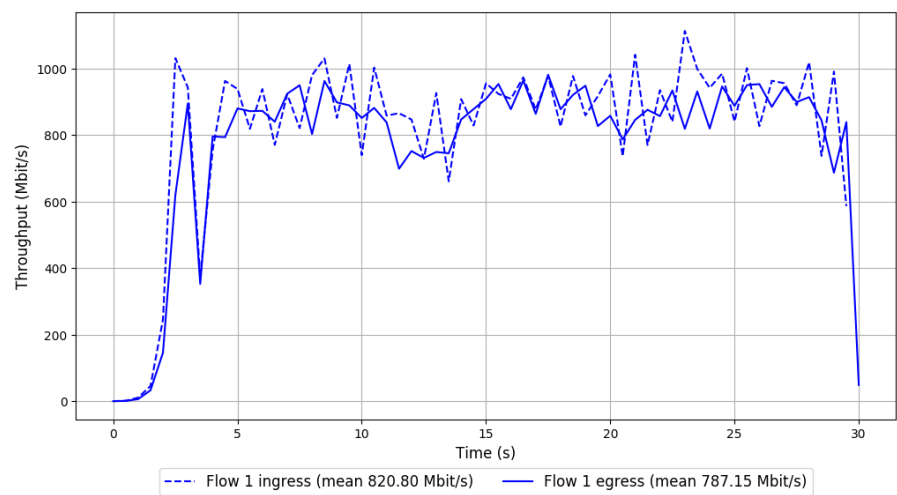
-- Flow 1:

Average throughput: 787.15 Mbit/s

95th percentile per-packet one-way delay: 214.723 ms

Loss rate: 4.10%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-24 23:10:10

End at: 2018-04-24 23:10:40

Below is generated by plot.py at 2018-04-25 01:20:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 780.25 Mbit/s

95th percentile per-packet one-way delay: 210.659 ms

Loss rate: 3.42%

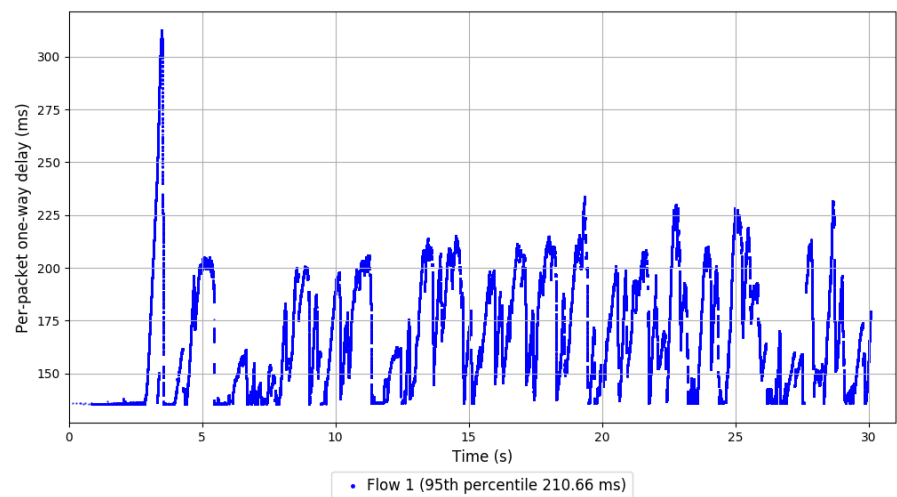
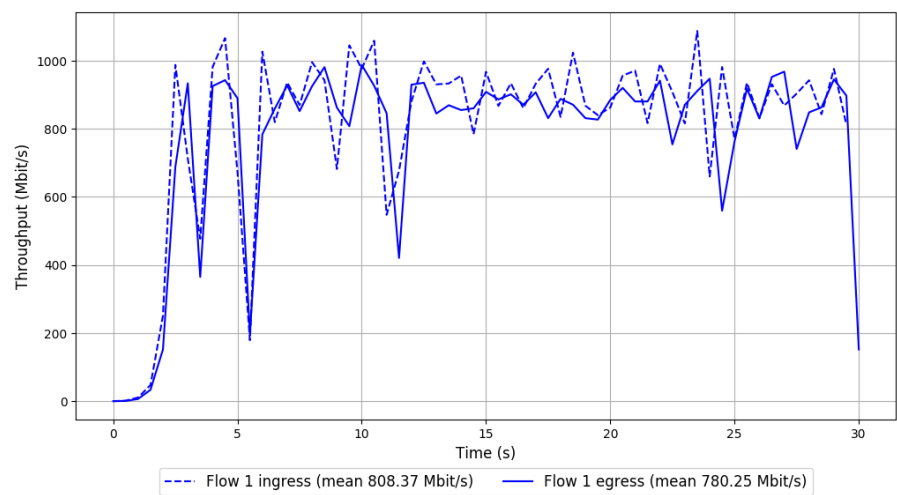
-- Flow 1:

Average throughput: 780.25 Mbit/s

95th percentile per-packet one-way delay: 210.659 ms

Loss rate: 3.42%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-24 23:24:42

End at: 2018-04-24 23:25:12

Below is generated by plot.py at 2018-04-25 01:20:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 774.84 Mbit/s

95th percentile per-packet one-way delay: 219.500 ms

Loss rate: 5.01%

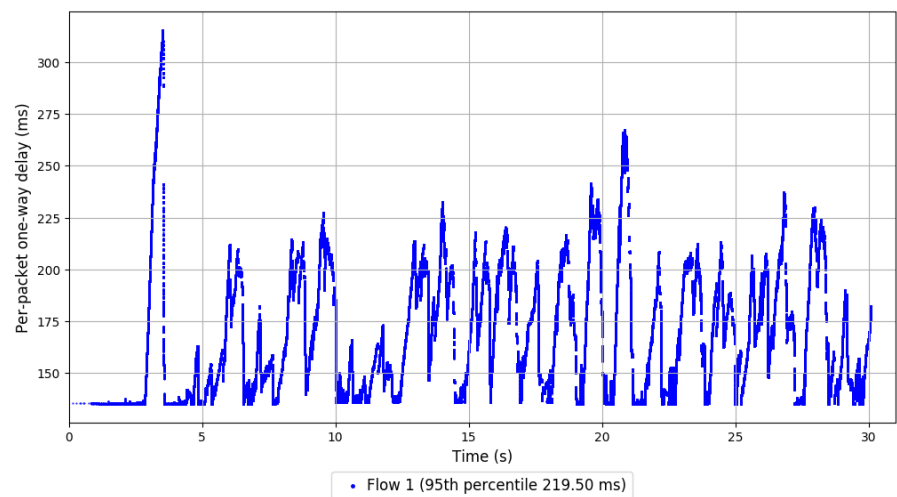
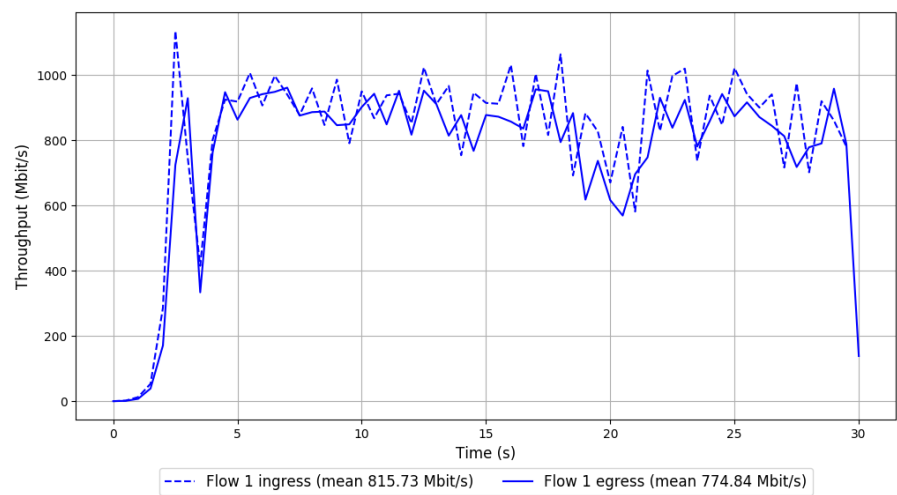
-- Flow 1:

Average throughput: 774.84 Mbit/s

95th percentile per-packet one-way delay: 219.500 ms

Loss rate: 5.01%

Run 10: Report of FillP — Data Link

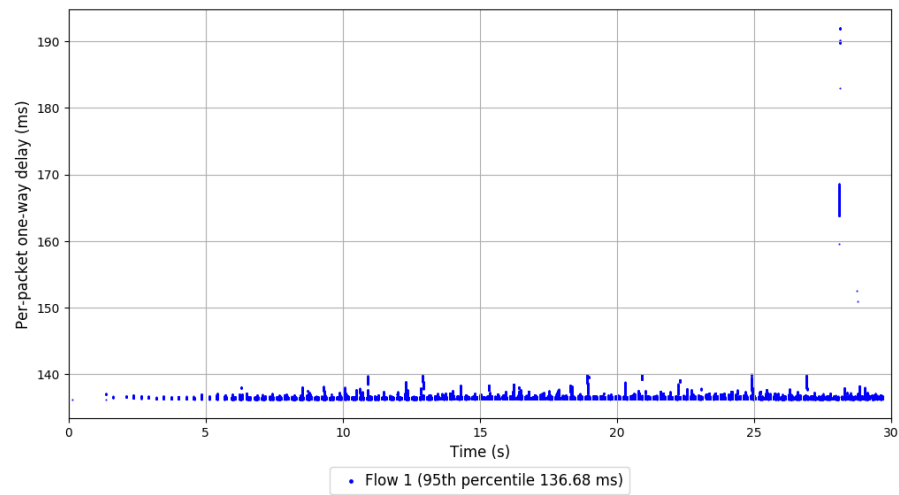
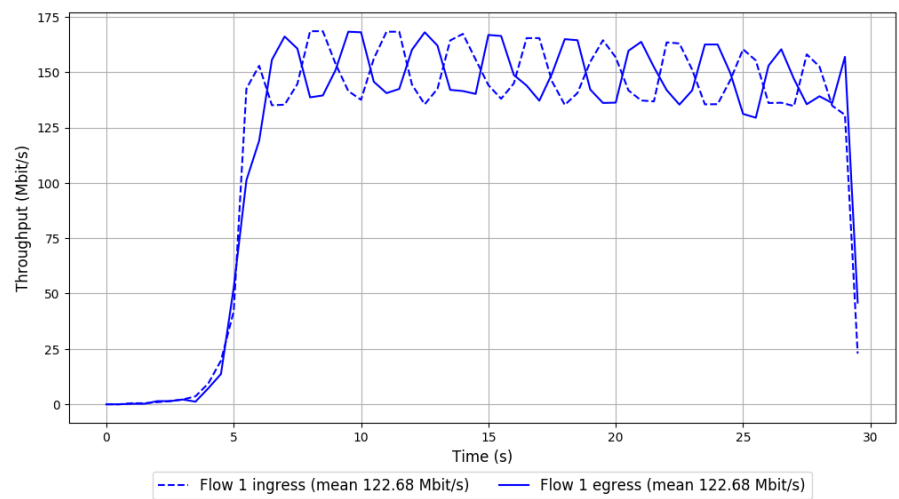


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-24 21:05:24
End at: 2018-04-24 21:05:54

# Below is generated by plot.py at 2018-04-25 01:20:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 122.68 Mbit/s
95th percentile per-packet one-way delay: 136.680 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 122.68 Mbit/s
95th percentile per-packet one-way delay: 136.680 ms
Loss rate: 0.00%
```

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

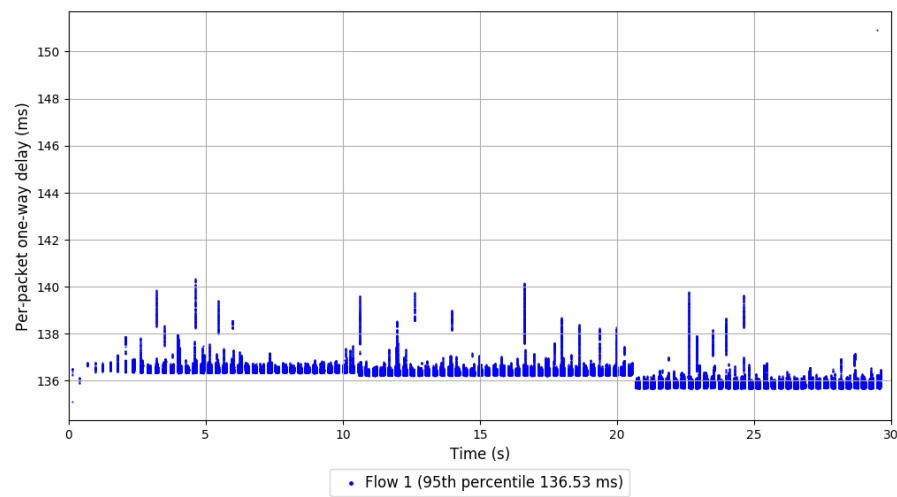
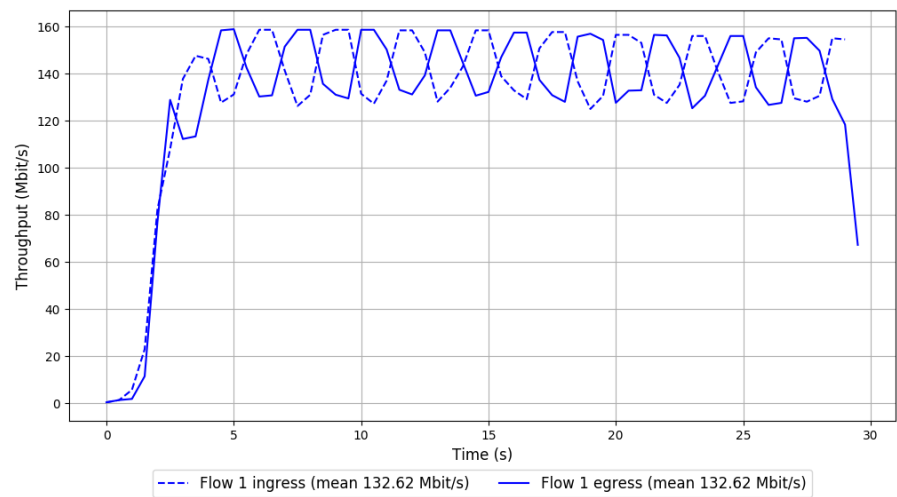


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-04-24 21:19:39
End at: 2018-04-24 21:20:09

# Below is generated by plot.py at 2018-04-25 01:20:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 132.62 Mbit/s
95th percentile per-packet one-way delay: 136.525 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 132.62 Mbit/s
95th percentile per-packet one-way delay: 136.525 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-24 21:34:09

End at: 2018-04-24 21:34:39

Below is generated by plot.py at 2018-04-25 01:20:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 135.11 Mbit/s

95th percentile per-packet one-way delay: 136.640 ms

Loss rate: 0.00%

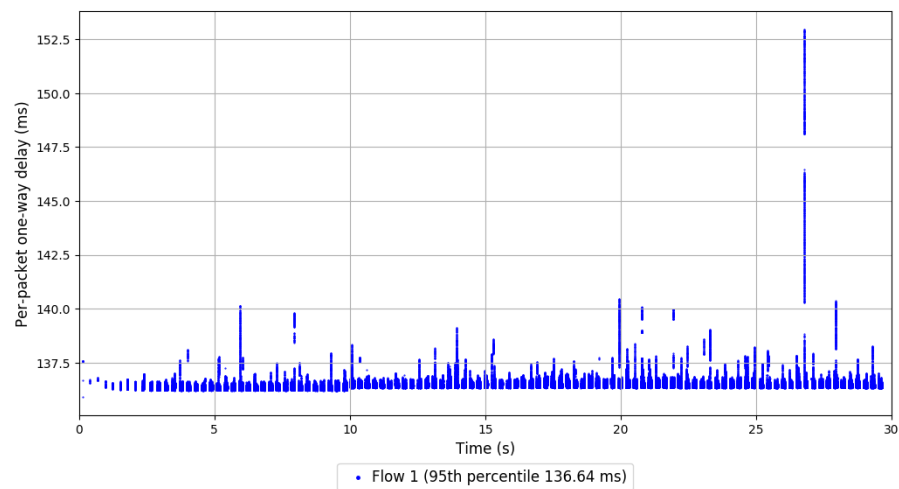
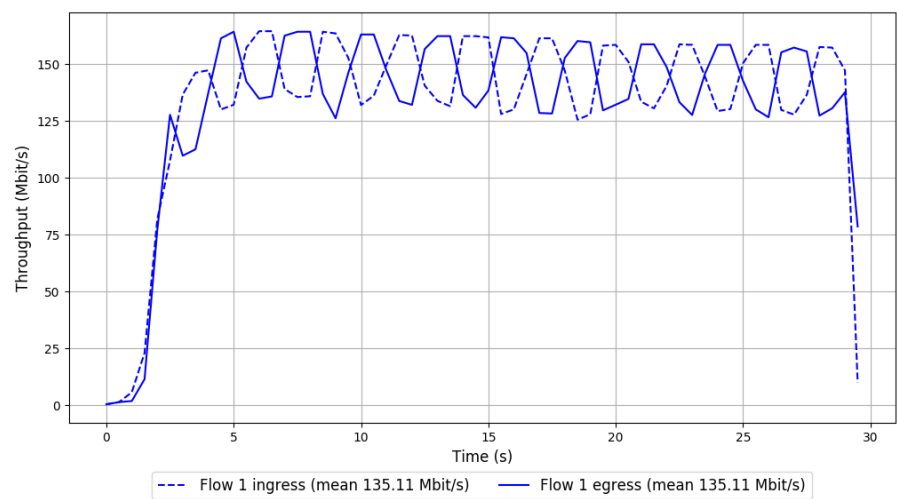
-- Flow 1:

Average throughput: 135.11 Mbit/s

95th percentile per-packet one-way delay: 136.640 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-24 21:48:28

End at: 2018-04-24 21:48:58

Below is generated by plot.py at 2018-04-25 01:20:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.99 Mbit/s

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

Loss rate: 0.00%

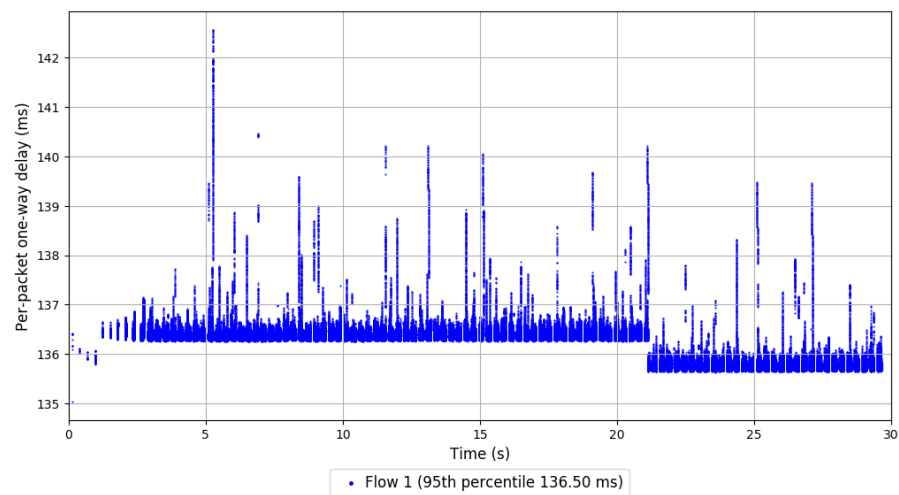
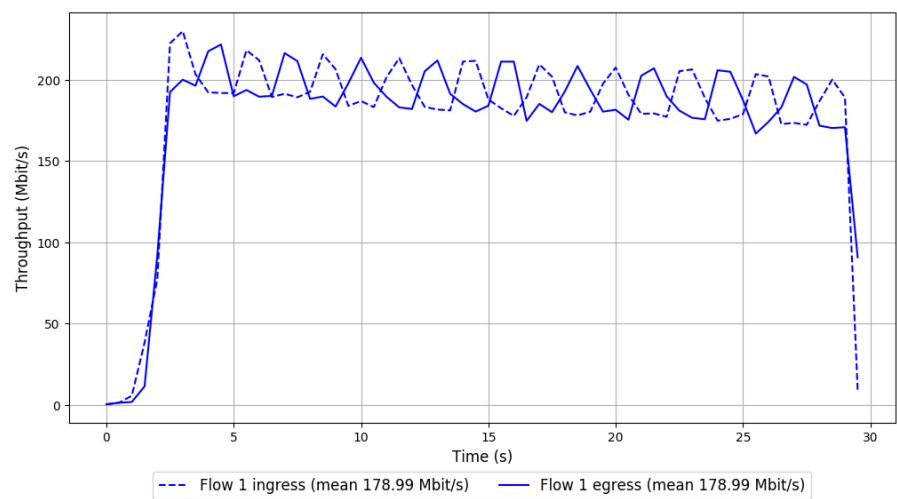
-- Flow 1:

Average throughput: 178.99 Mbit/s

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

Loss rate: 0.00%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-24 22:02:58

End at: 2018-04-24 22:03:28

Below is generated by plot.py at 2018-04-25 01:20:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.68 Mbit/s

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

Loss rate: 0.00%

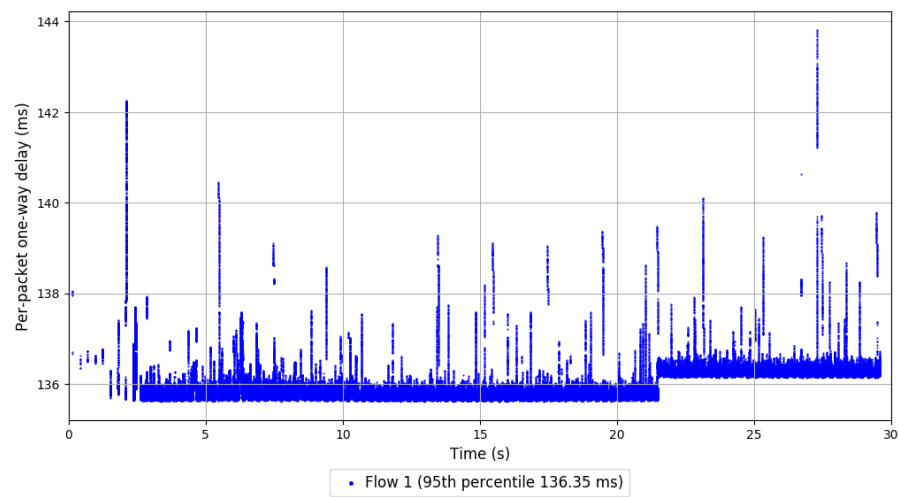
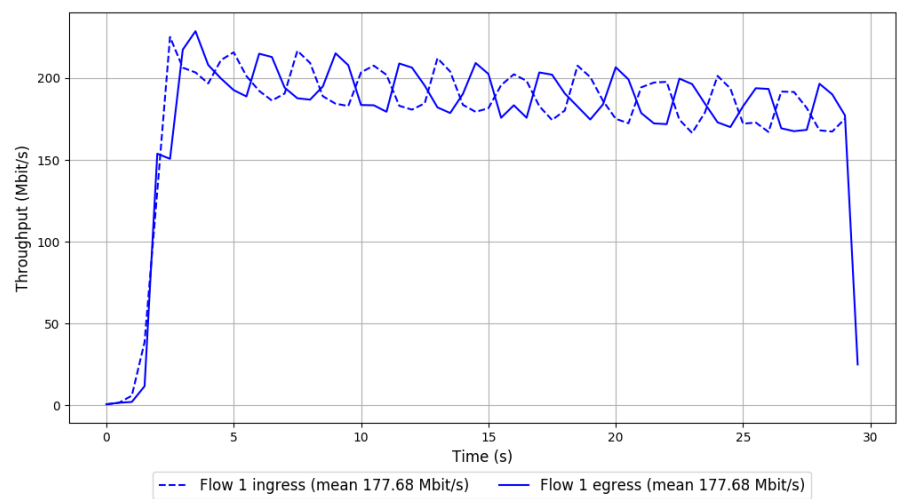
-- Flow 1:

Average throughput: 177.68 Mbit/s

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

Loss rate: 0.00%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-24 22:17:37

End at: 2018-04-24 22:18:07

Below is generated by plot.py at 2018-04-25 01:20:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.28 Mbit/s

95th percentile per-packet one-way delay: 136.443 ms

Loss rate: 0.00%

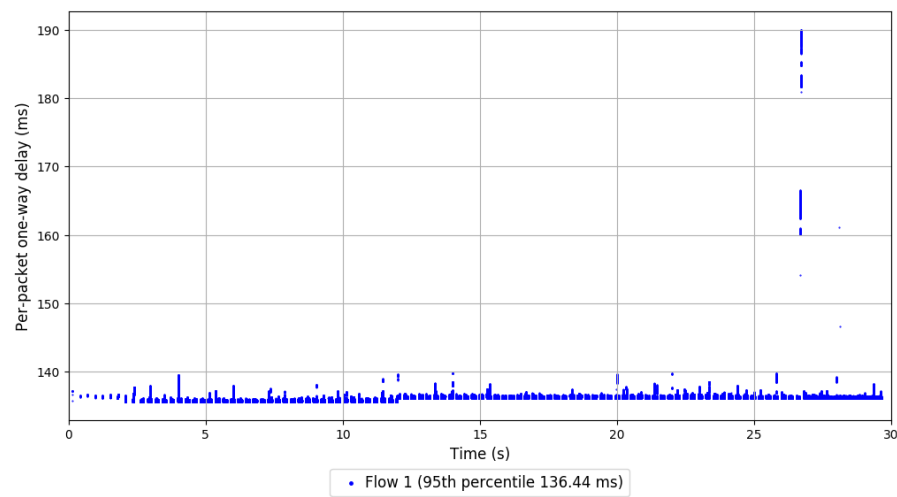
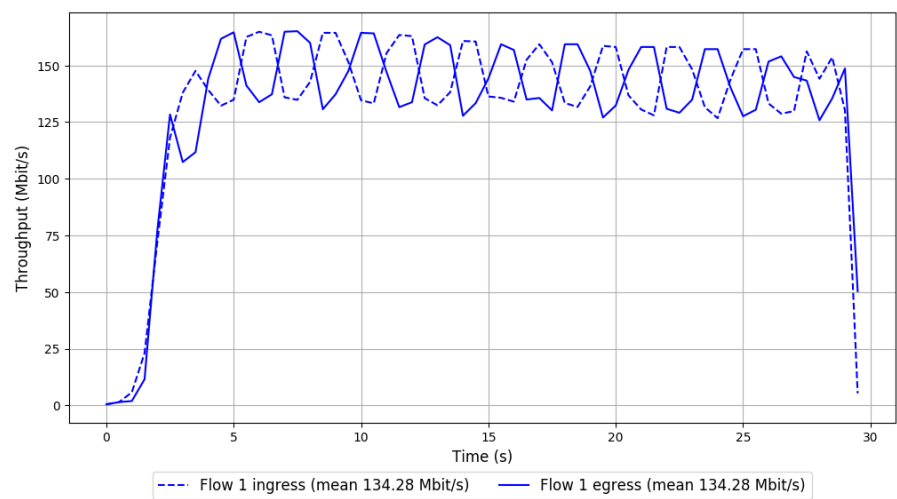
-- Flow 1:

Average throughput: 134.28 Mbit/s

95th percentile per-packet one-way delay: 136.443 ms

Loss rate: 0.00%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-24 22:32:16

End at: 2018-04-24 22:32:46

Below is generated by plot.py at 2018-04-25 01:20:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.66 Mbit/s

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

Loss rate: 0.00%

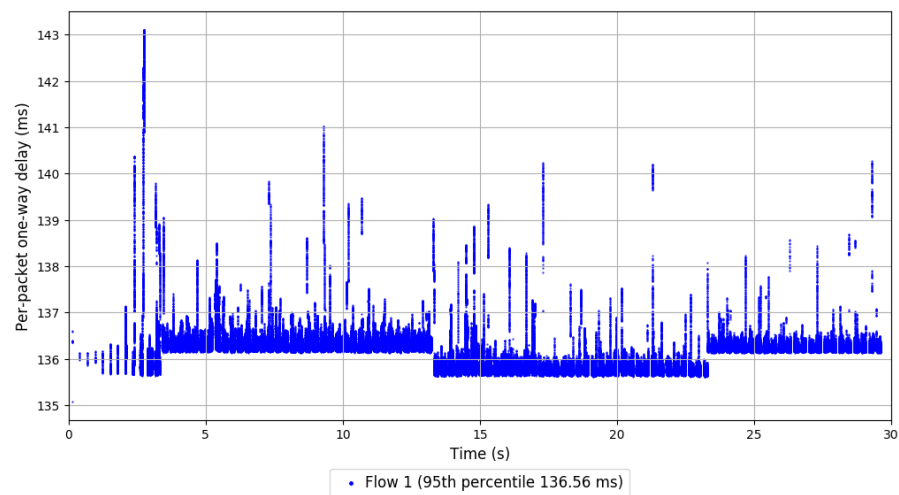
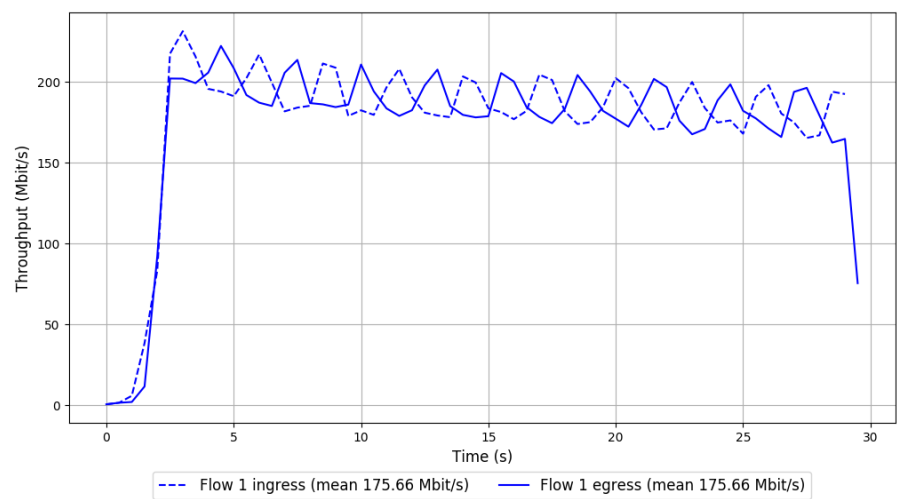
-- Flow 1:

Average throughput: 175.66 Mbit/s

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

Loss rate: 0.00%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-24 22:46:34

End at: 2018-04-24 22:47:04

Below is generated by plot.py at 2018-04-25 01:20:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 135.45 Mbit/s

95th percentile per-packet one-way delay: 136.202 ms

Loss rate: 0.00%

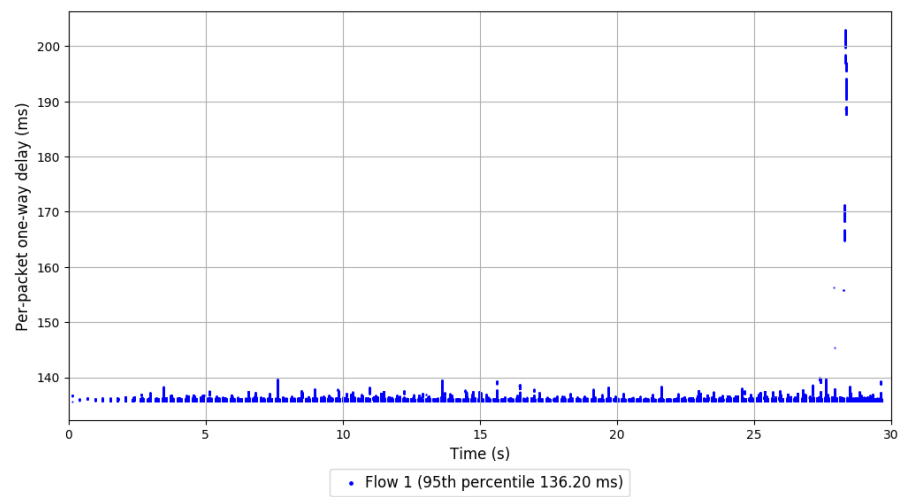
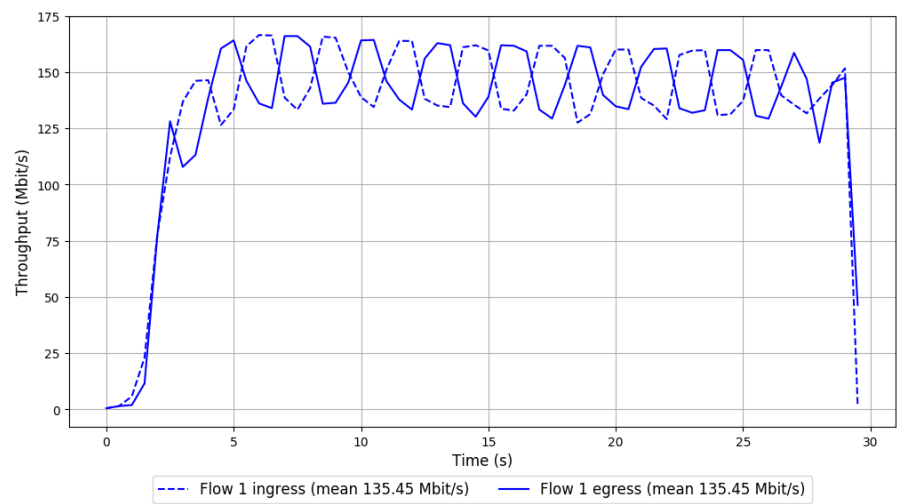
-- Flow 1:

Average throughput: 135.45 Mbit/s

95th percentile per-packet one-way delay: 136.202 ms

Loss rate: 0.00%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-24 23:01:07

End at: 2018-04-24 23:01:37

Below is generated by plot.py at 2018-04-25 01:20:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 135.51 Mbit/s

95th percentile per-packet one-way delay: 136.884 ms

Loss rate: 0.00%

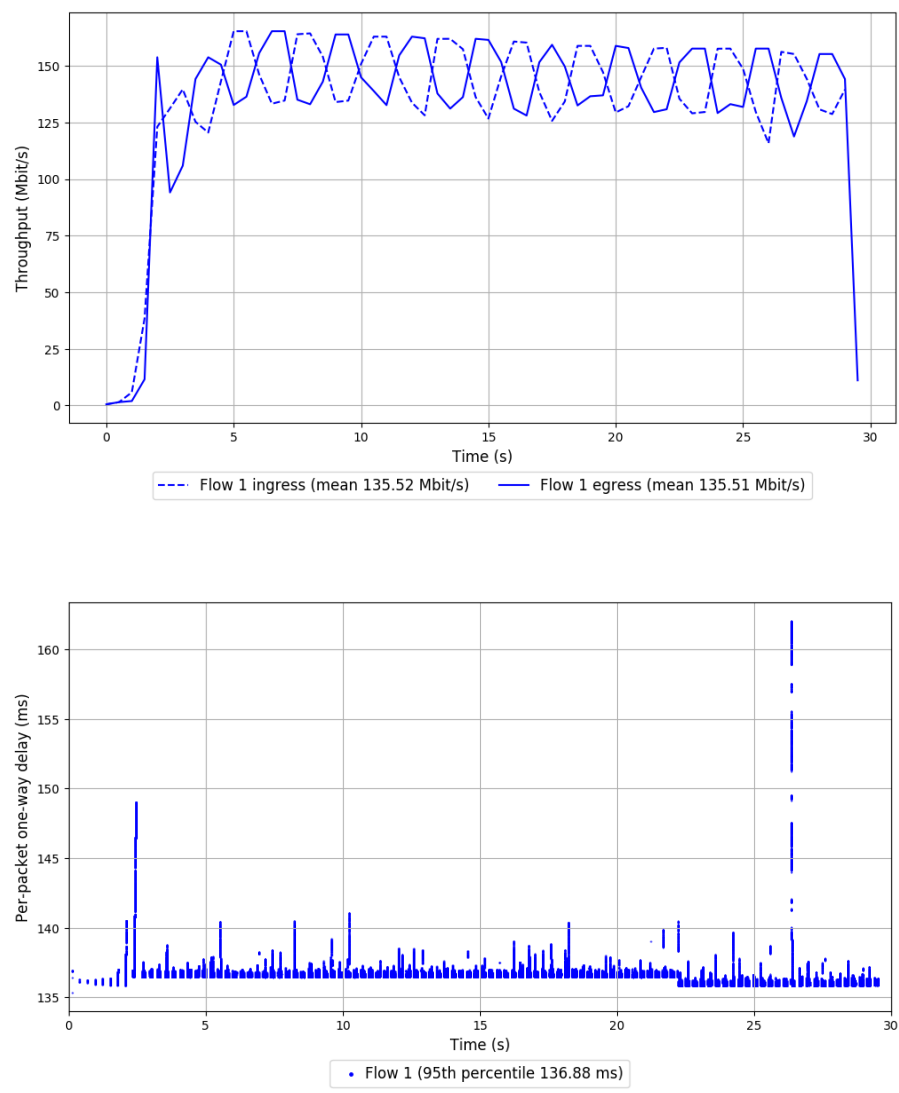
-- Flow 1:

Average throughput: 135.51 Mbit/s

95th percentile per-packet one-way delay: 136.884 ms

Loss rate: 0.00%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-24 23:15:39

End at: 2018-04-24 23:16:09

Below is generated by plot.py at 2018-04-25 01:20:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.66 Mbit/s

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

Loss rate: 0.00%

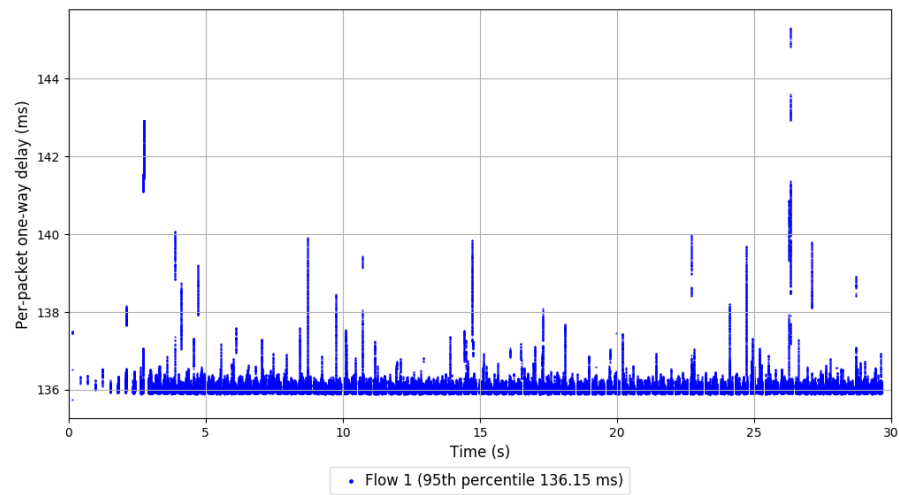
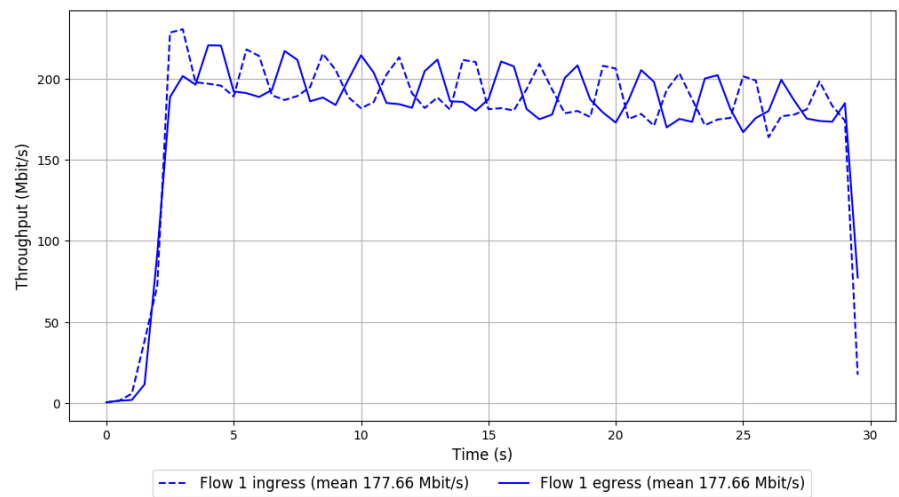
-- Flow 1:

Average throughput: 177.66 Mbit/s

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

Loss rate: 0.00%

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



Run 1: Statistics of PCC-Vivace

Start at: 2018-04-24 21:17:48

End at: 2018-04-24 21:18:18

Below is generated by plot.py at 2018-04-25 01:20:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 323.24 Mbit/s

95th percentile per-packet one-way delay: 140.061 ms

Loss rate: 0.00%

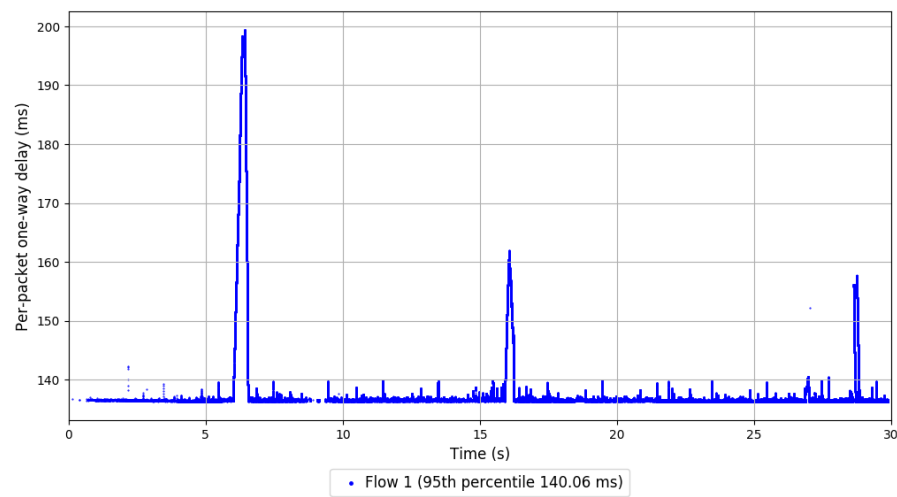
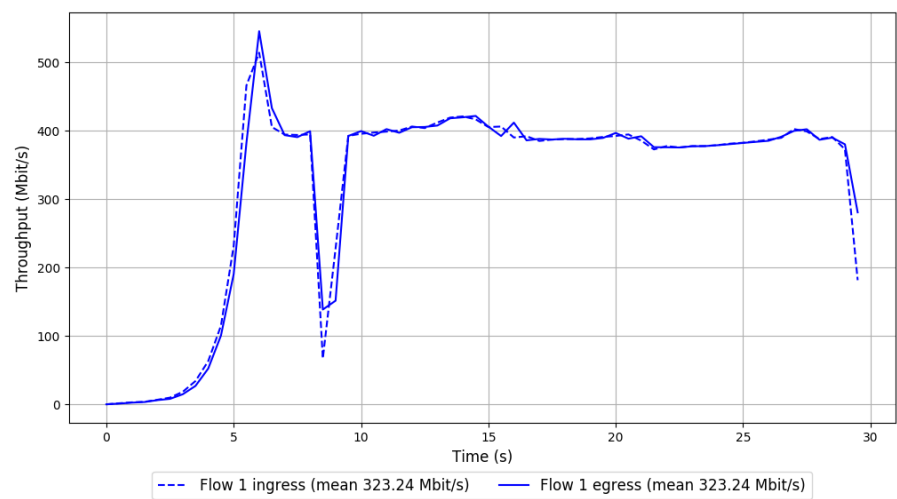
-- Flow 1:

Average throughput: 323.24 Mbit/s

95th percentile per-packet one-way delay: 140.061 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-04-24 21:32:23

End at: 2018-04-24 21:32:53

Below is generated by plot.py at 2018-04-25 01:20:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 266.10 Mbit/s

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

Loss rate: 0.00%

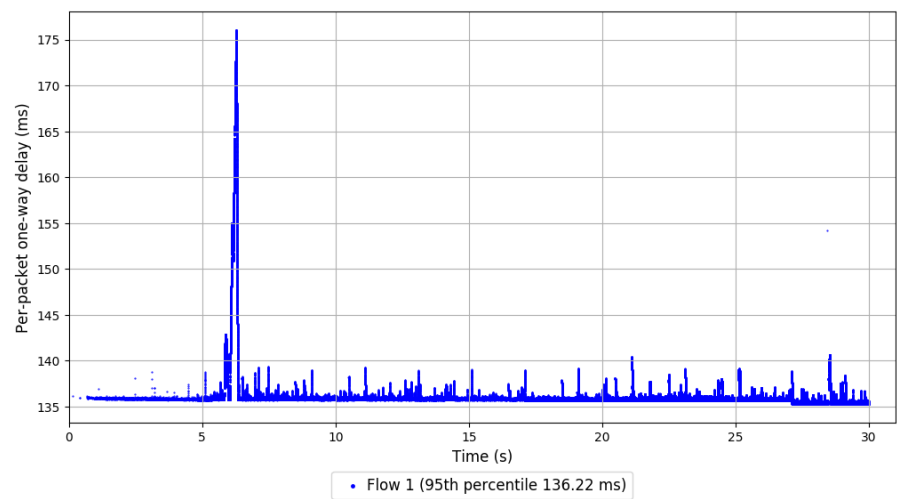
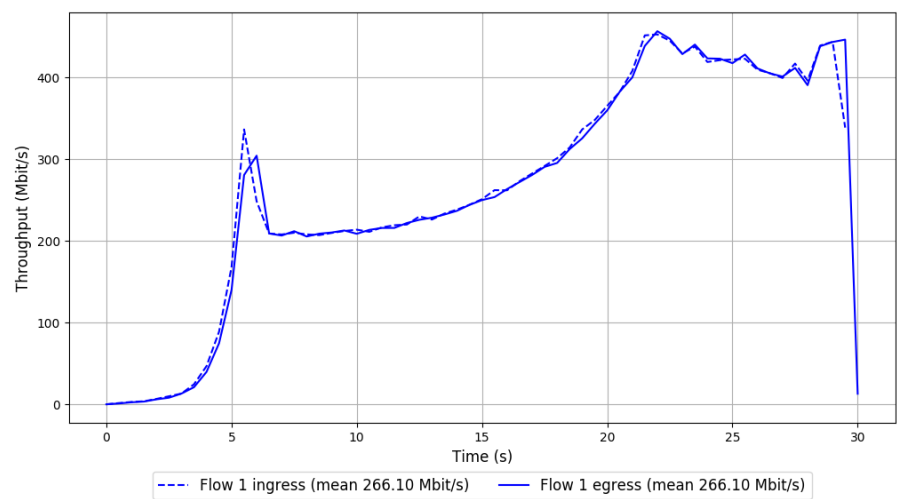
-- Flow 1:

Average throughput: 266.10 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-04-24 21:46:38

End at: 2018-04-24 21:47:08

Below is generated by plot.py at 2018-04-25 01:20:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 321.18 Mbit/s

95th percentile per-packet one-way delay: 149.335 ms

Loss rate: 0.50%

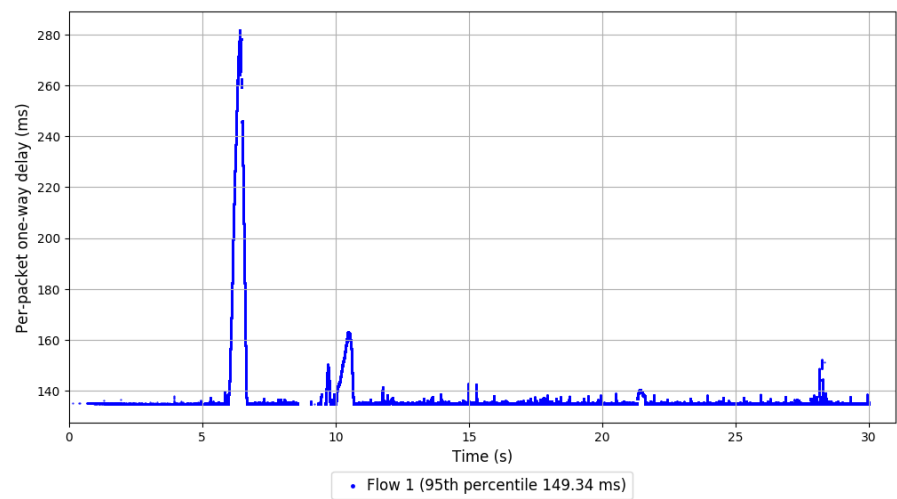
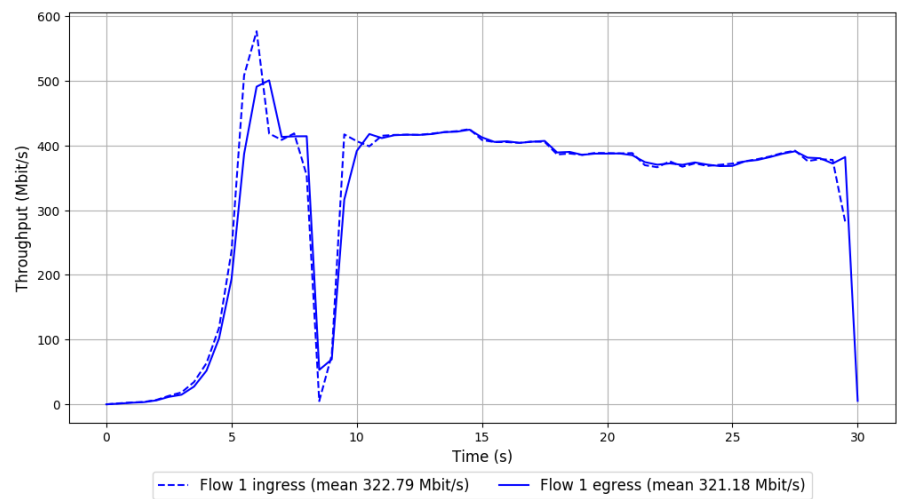
-- Flow 1:

Average throughput: 321.18 Mbit/s

95th percentile per-packet one-way delay: 149.335 ms

Loss rate: 0.50%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-04-24 22:01:06

End at: 2018-04-24 22:01:36

Below is generated by plot.py at 2018-04-25 01:20:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 346.81 Mbit/s

95th percentile per-packet one-way delay: 149.607 ms

Loss rate: 0.00%

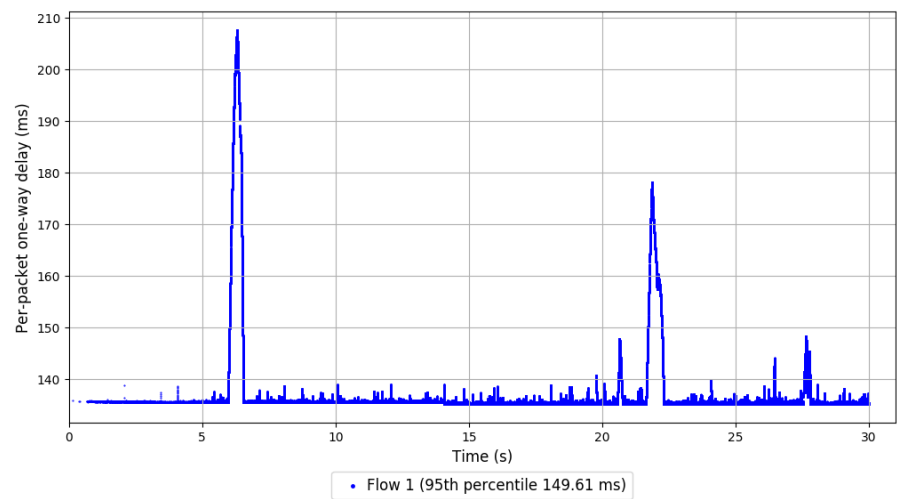
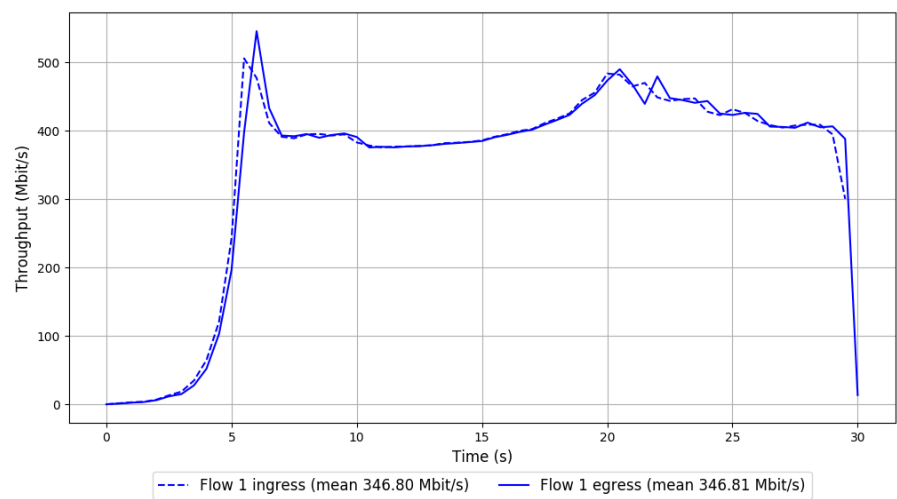
-- Flow 1:

Average throughput: 346.81 Mbit/s

95th percentile per-packet one-way delay: 149.607 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-04-24 22:15:45

End at: 2018-04-24 22:16:15

Below is generated by plot.py at 2018-04-25 01:20:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.98 Mbit/s

95th percentile per-packet one-way delay: 147.191 ms

Loss rate: 0.05%

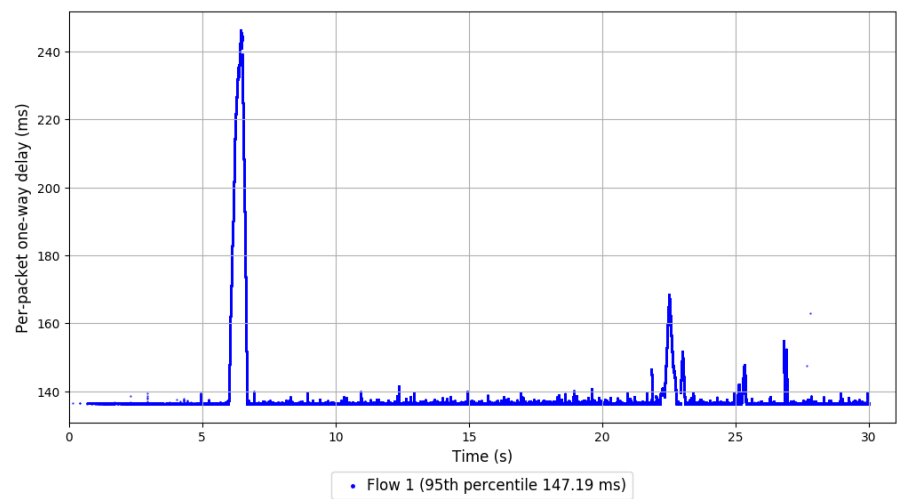
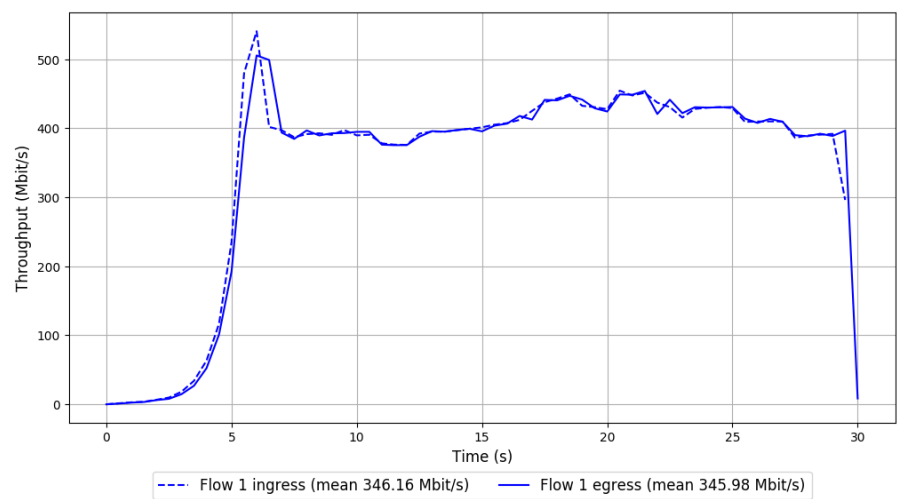
-- Flow 1:

Average throughput: 345.98 Mbit/s

95th percentile per-packet one-way delay: 147.191 ms

Loss rate: 0.05%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-04-24 22:30:23

End at: 2018-04-24 22:30:53

Below is generated by plot.py at 2018-04-25 01:20:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 349.09 Mbit/s

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

Loss rate: 0.00%

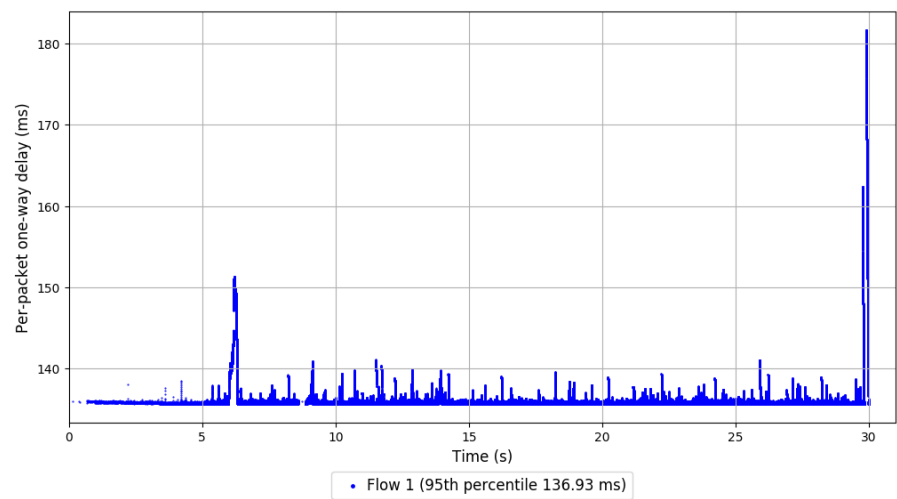
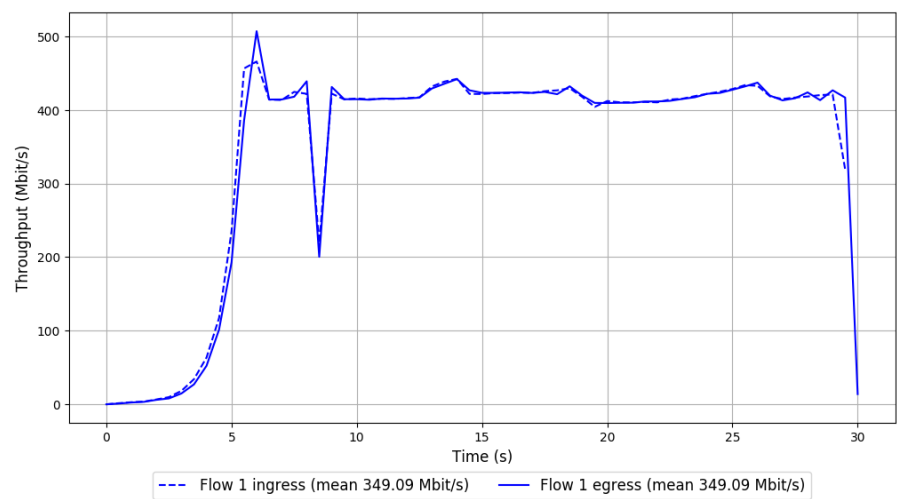
-- Flow 1:

Average throughput: 349.09 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-04-24 22:44:41

End at: 2018-04-24 22:45:11

Below is generated by plot.py at 2018-04-25 01:21:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.97 Mbit/s

95th percentile per-packet one-way delay: 140.412 ms

Loss rate: 0.00%

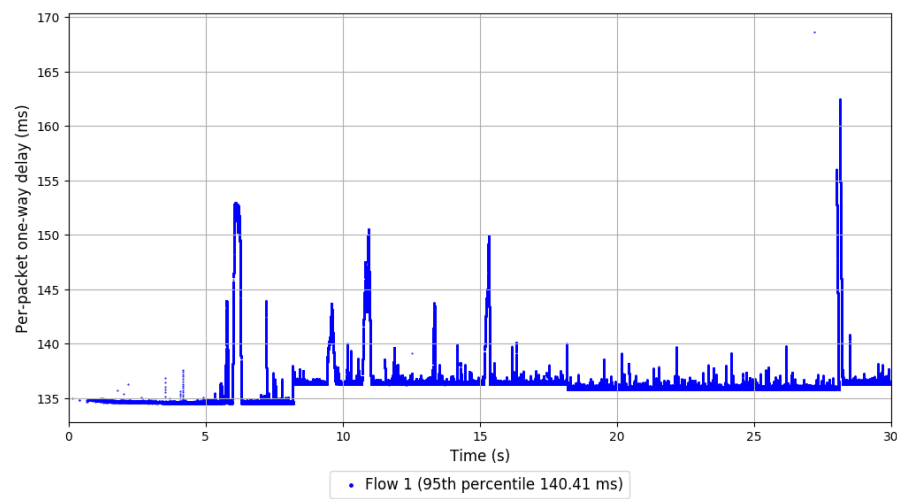
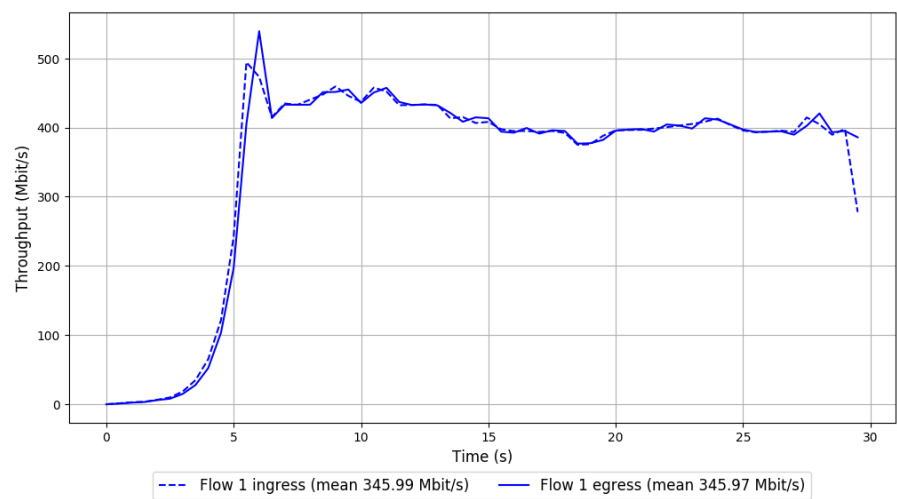
-- Flow 1:

Average throughput: 345.97 Mbit/s

95th percentile per-packet one-way delay: 140.412 ms

Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-04-24 22:59:15

End at: 2018-04-24 22:59:45

Below is generated by plot.py at 2018-04-25 01:21:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 334.81 Mbit/s

95th percentile per-packet one-way delay: 136.921 ms

Loss rate: 0.00%

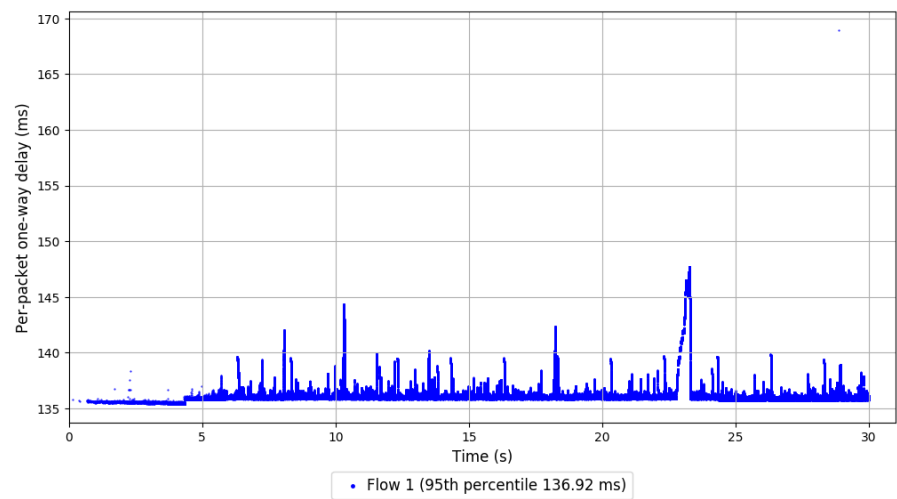
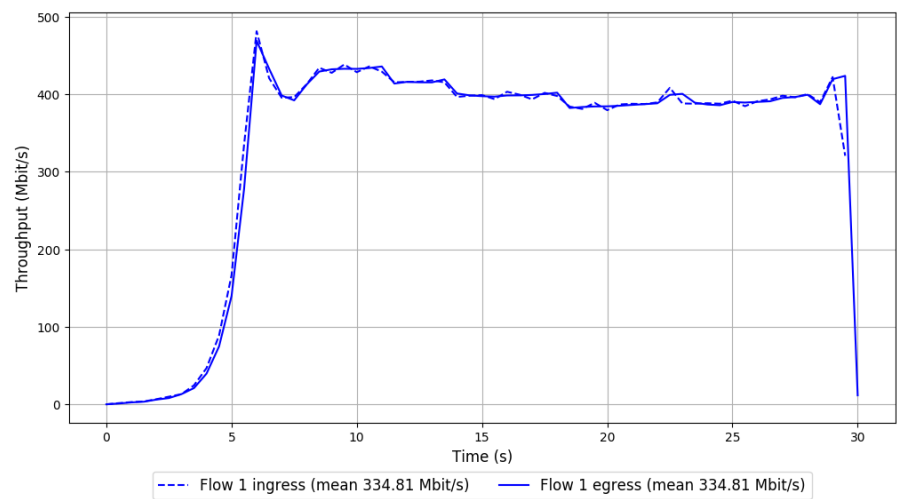
-- Flow 1:

Average throughput: 334.81 Mbit/s

95th percentile per-packet one-way delay: 136.921 ms

Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-04-24 23:13:47

End at: 2018-04-24 23:14:17

Below is generated by plot.py at 2018-04-25 01:22:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 331.17 Mbit/s

95th percentile per-packet one-way delay: 166.610 ms

Loss rate: 0.00%

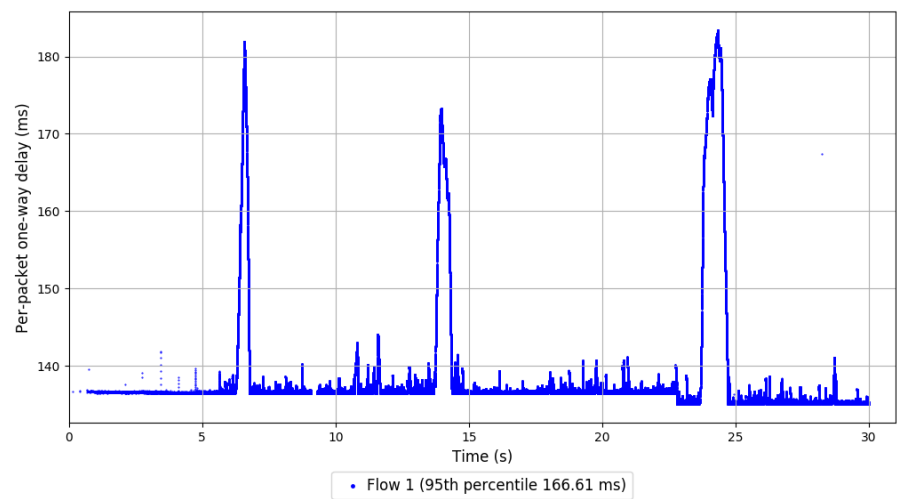
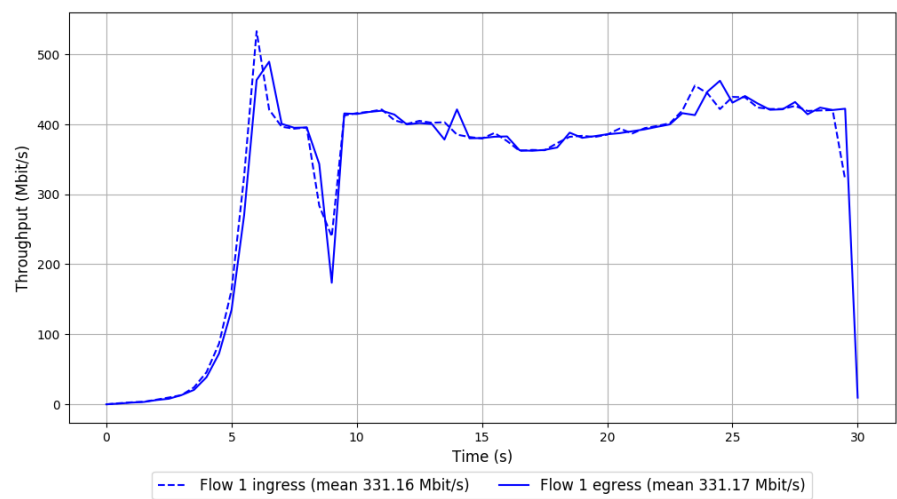
-- Flow 1:

Average throughput: 331.17 Mbit/s

95th percentile per-packet one-way delay: 166.610 ms

Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-04-24 23:28:21

End at: 2018-04-24 23:28:51

Below is generated by plot.py at 2018-04-25 01:22:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 260.91 Mbit/s

95th percentile per-packet one-way delay: 136.984 ms

Loss rate: 0.00%

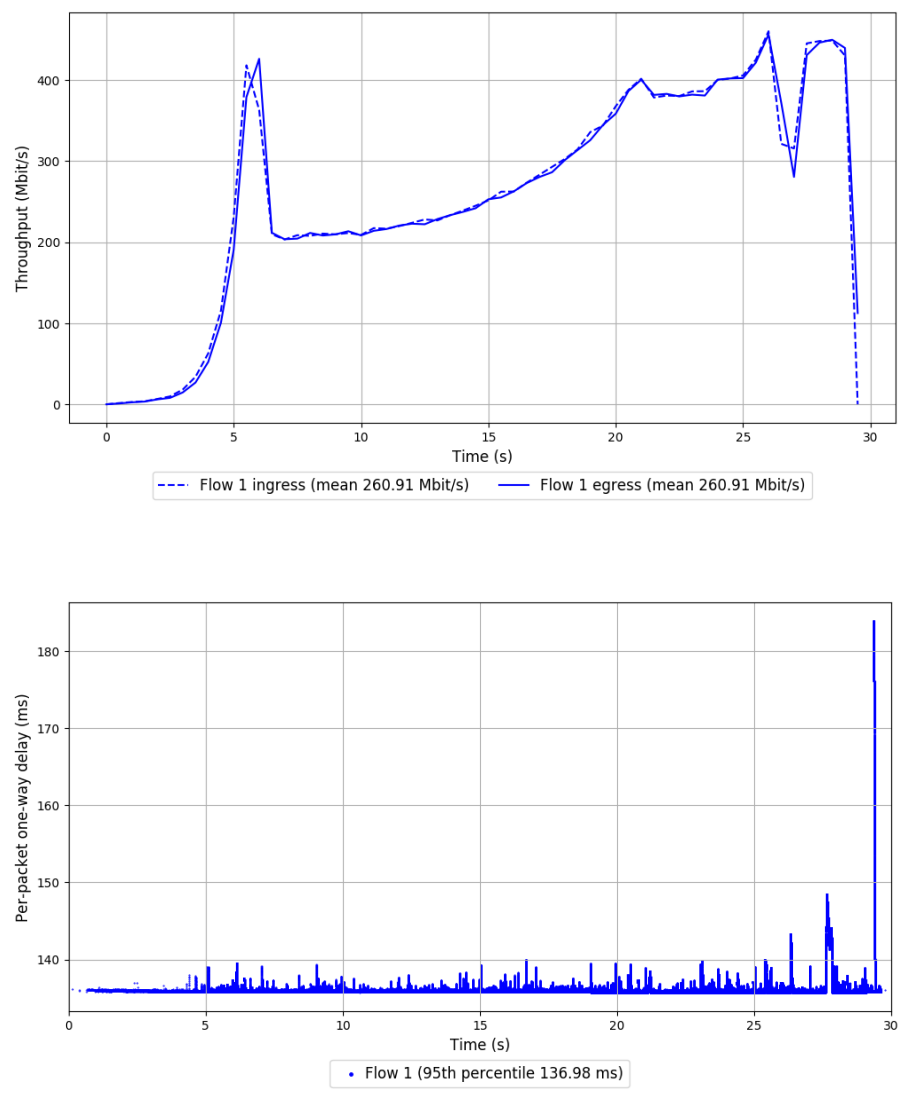
-- Flow 1:

Average throughput: 260.91 Mbit/s

95th percentile per-packet one-way delay: 136.984 ms

Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-24 21:09:18

End at: 2018-04-24 21:09:48

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-04-24 21:23:52

End at: 2018-04-24 21:24:22

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-04-24 21:38:03

End at: 2018-04-24 21:38:33

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-04-24 21:52:43

End at: 2018-04-24 21:53:13

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-04-24 22:07:12

End at: 2018-04-24 22:07:42

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-24 22:21:49

End at: 2018-04-24 22:22:19

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-04-24 22:36:12

End at: 2018-04-24 22:36:43

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-24 22:50:45

End at: 2018-04-24 22:51:15

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-24 23:05:20

End at: 2018-04-24 23:05:50

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-24 23:19:54

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

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing