

Pantheon Report

Generated at 2018-04-17 09:08:22 (UTC).

Data path: AWS Korea Ethernet (*local*) → China 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).

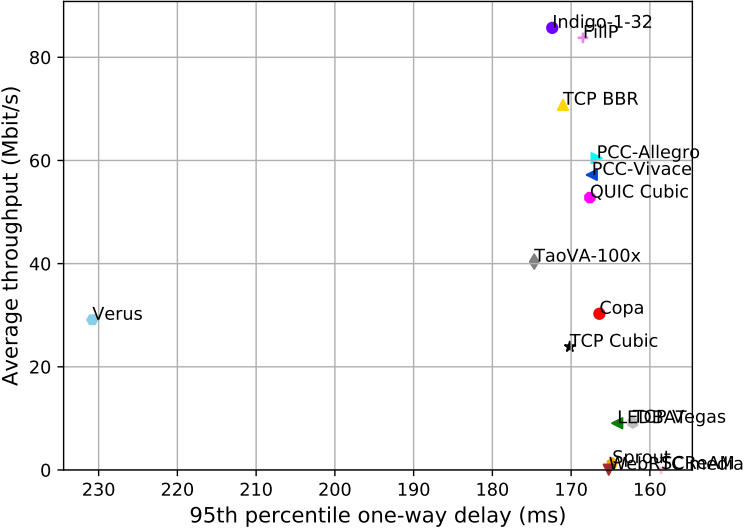
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

NTP offsets were measured against `ntp.nict.jp` and have been applied to correct the timestamps in logs.

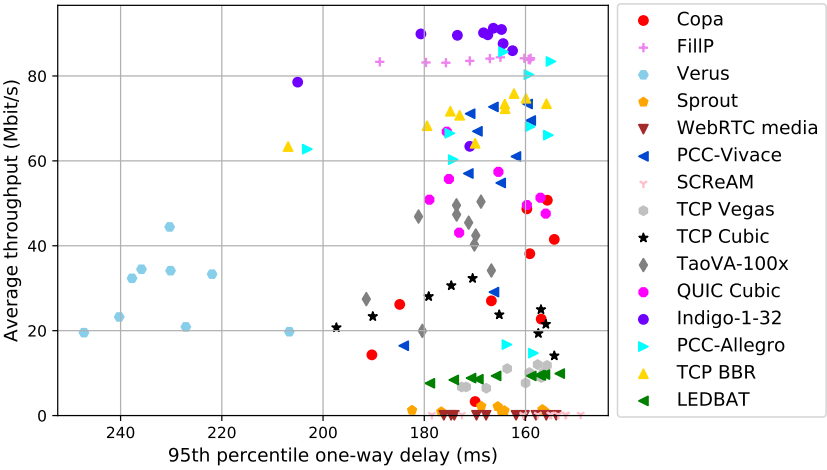
Git summary:

```
branch: master @ b3d6e7098641364fd3a292656a51aa81e316d0b4
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581
```

test from AWS Korea Ethernet to China Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from AWS Korea Ethernet to China Ethernet, 10 runs of 30s each per scheme



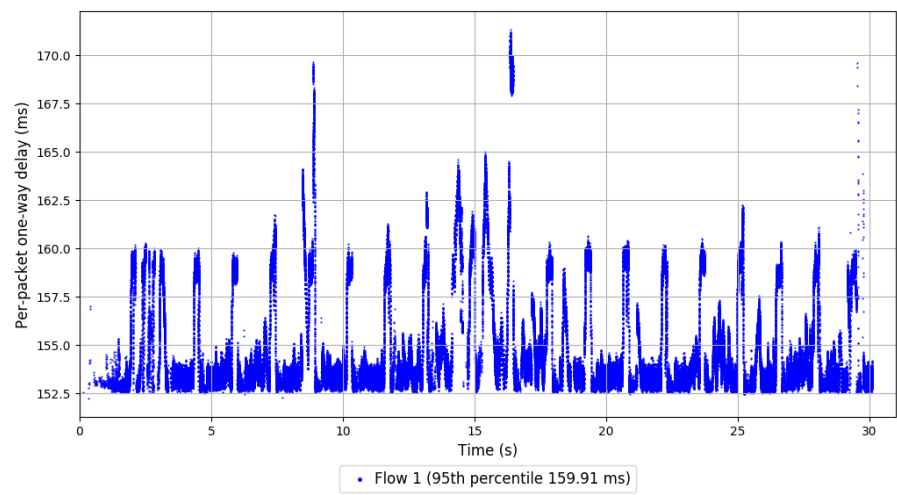
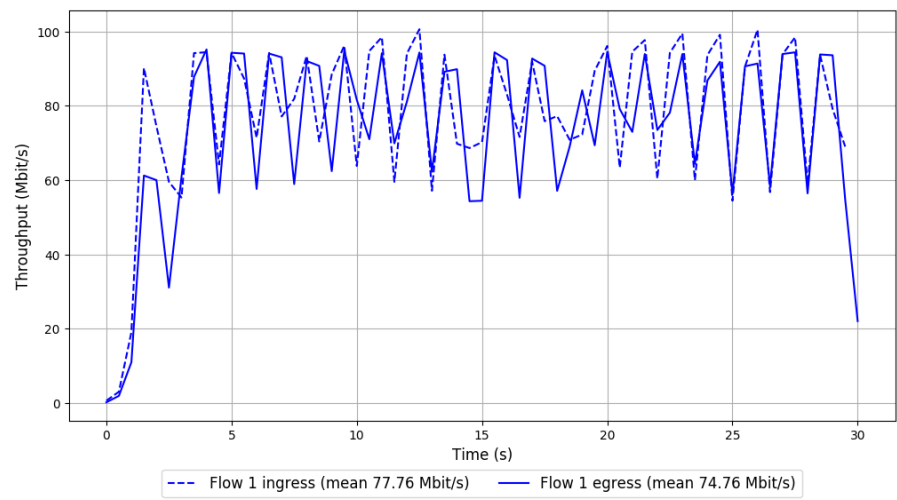
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	70.80	171.03	3.56
TCP Cubic	10	23.88	170.17	0.26
LEDBAT	10	9.06	164.15	0.00
PCC-Allegro	10	60.45	166.76	1.68
QUIC Cubic	8	52.80	167.61	0.35
SCReAM	10	0.22	158.59	0.01
WebRTC media	10	0.06	165.22	0.00
Sprout	10	1.32	164.78	0.33
TaoVA-100x	10	40.39	174.69	2.49
TCP Vegas	10	9.17	162.17	0.39
Verus	9	29.12	230.80	78.84
Copa	9	30.29	166.41	0.04
FillP	10	83.78	168.50	4.91
Indigo-1-32	10	85.71	172.40	21.62
PCC-Vivace	10	57.21	167.38	0.24
PCC-Expr	0	N/A	N/A	N/A

Run 1: Statistics of TCP BBR

Start at: 2018-04-17 05:06:28
End at: 2018-04-17 05:06:58
Local clock offset: 4.662 ms
Remote clock offset: -13.895 ms

Below is generated by plot.py at 2018-04-17 08:55:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.76 Mbit/s
95th percentile per-packet one-way delay: 159.915 ms
Loss rate: 3.86%
-- Flow 1:
Average throughput: 74.76 Mbit/s
95th percentile per-packet one-way delay: 159.915 ms
Loss rate: 3.86%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-17 05:27:38

End at: 2018-04-17 05:28:08

Local clock offset: 5.341 ms

Remote clock offset: 3.264 ms

Below is generated by plot.py at 2018-04-17 08:55:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.69 Mbit/s

95th percentile per-packet one-way delay: 174.838 ms

Loss rate: 3.55%

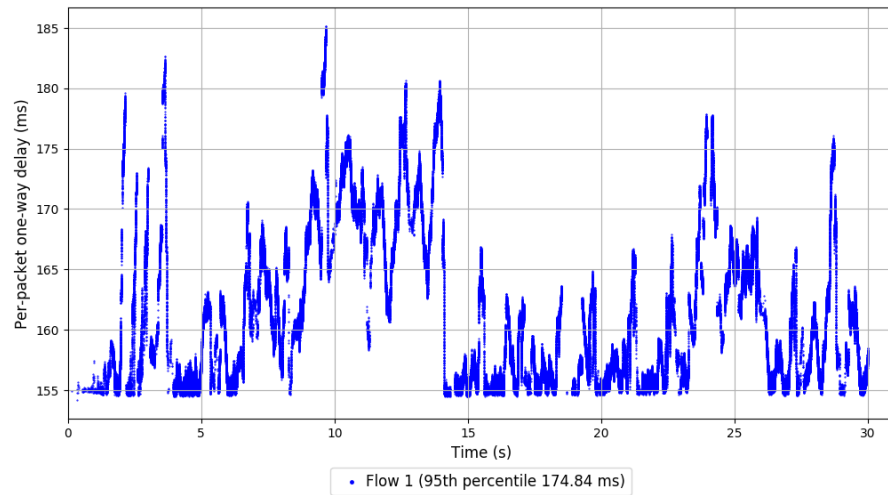
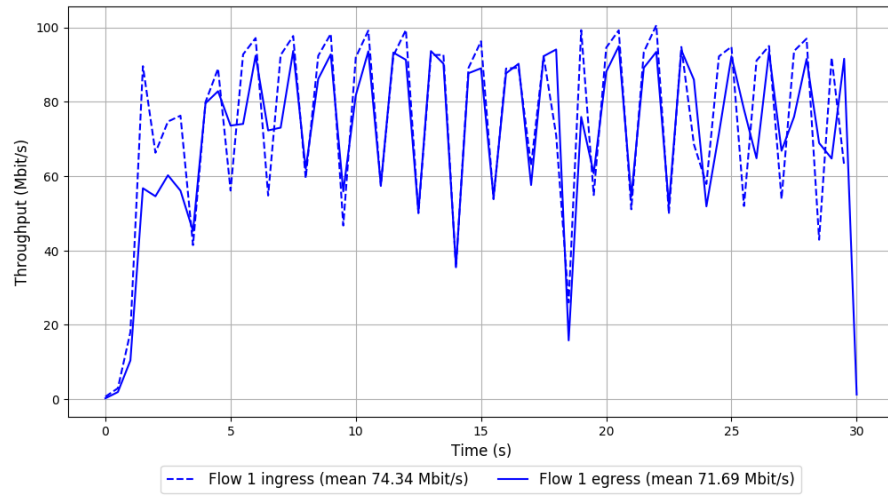
-- Flow 1:

Average throughput: 71.69 Mbit/s

95th percentile per-packet one-way delay: 174.838 ms

Loss rate: 3.55%

Run 2: Report of TCP BBR — Data Link

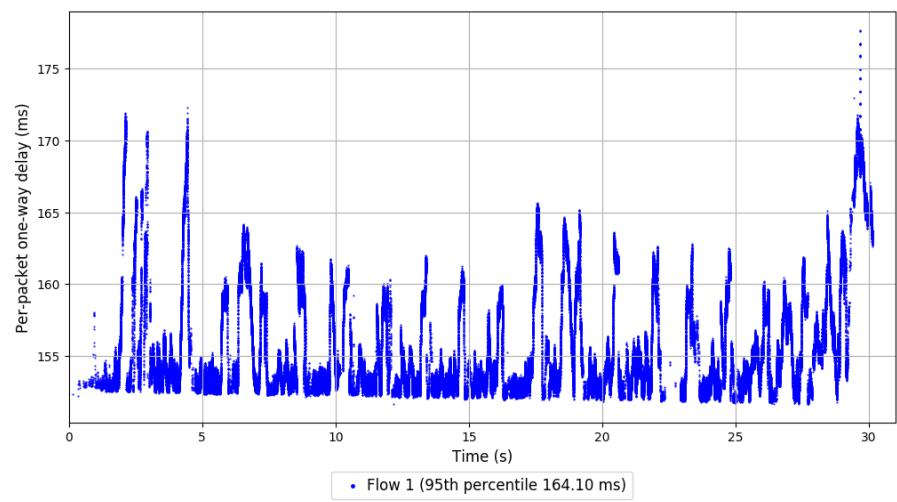
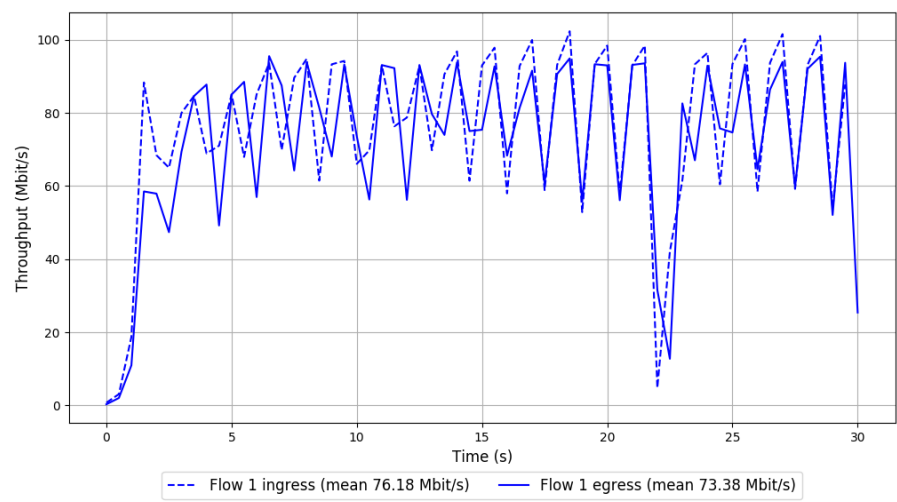


Run 3: Statistics of TCP BBR

Start at: 2018-04-17 05:48:53
End at: 2018-04-17 05:49:23
Local clock offset: 12.416 ms
Remote clock offset: -12.07 ms

Below is generated by plot.py at 2018-04-17 08:55:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.38 Mbit/s
95th percentile per-packet one-way delay: 164.097 ms
Loss rate: 3.64%
-- Flow 1:
Average throughput: 73.38 Mbit/s
95th percentile per-packet one-way delay: 164.097 ms
Loss rate: 3.64%

Run 3: Report of TCP BBR — Data Link

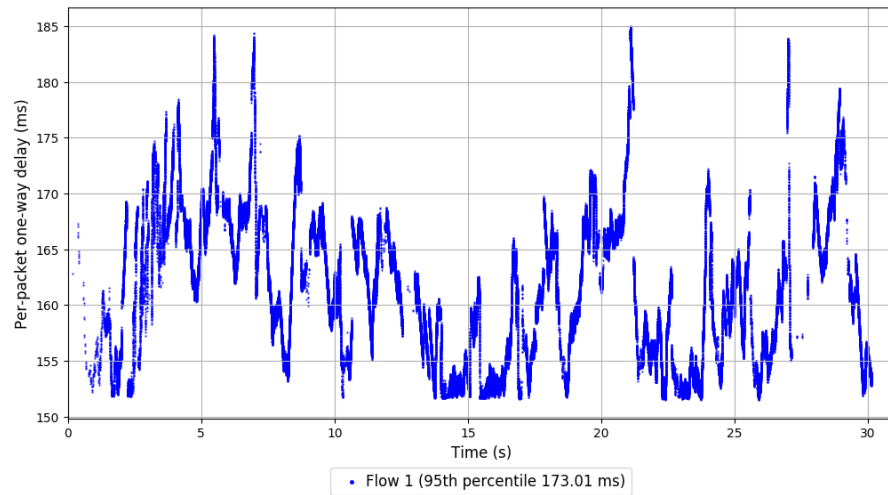
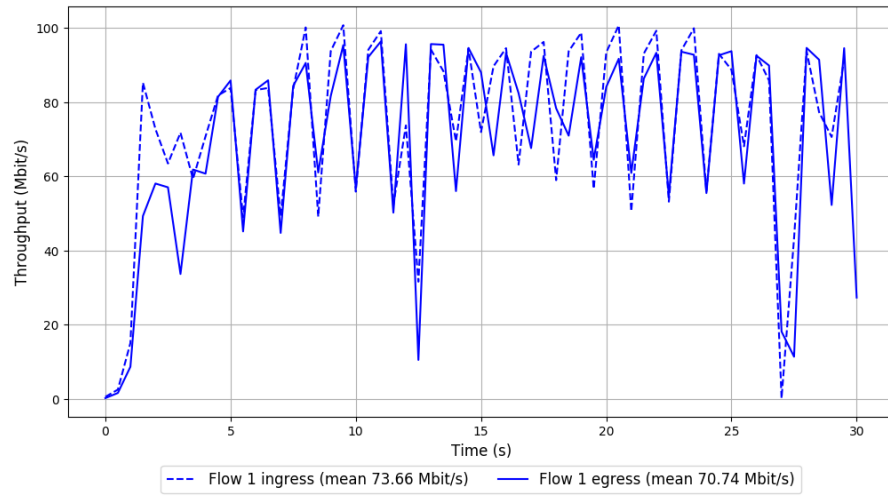


Run 4: Statistics of TCP BBR

Start at: 2018-04-17 06:10:04
End at: 2018-04-17 06:10:34
Local clock offset: 9.527 ms
Remote clock offset: -16.204 ms

Below is generated by plot.py at 2018-04-17 08:55:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 70.74 Mbit/s
95th percentile per-packet one-way delay: 173.015 ms
Loss rate: 3.99%
-- Flow 1:
Average throughput: 70.74 Mbit/s
95th percentile per-packet one-way delay: 173.015 ms
Loss rate: 3.99%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-17 06:31:13

End at: 2018-04-17 06:31:43

Local clock offset: 8.613 ms

Remote clock offset: -3.545 ms

Below is generated by plot.py at 2018-04-17 08:55:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.15 Mbit/s

95th percentile per-packet one-way delay: 169.950 ms

Loss rate: 3.24%

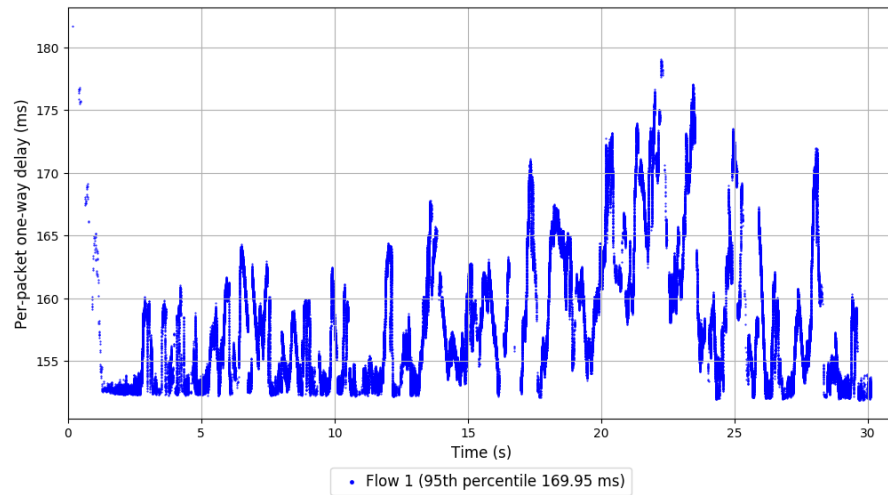
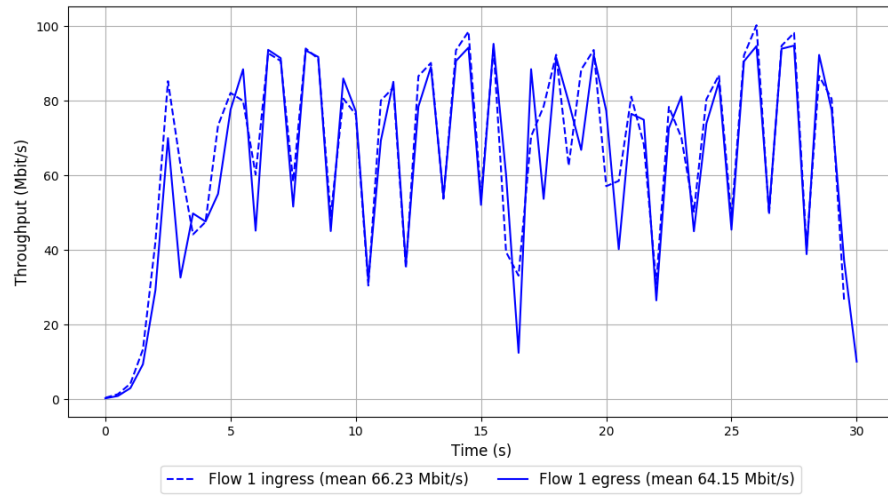
-- Flow 1:

Average throughput: 64.15 Mbit/s

95th percentile per-packet one-way delay: 169.950 ms

Loss rate: 3.24%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-17 06:58:10

End at: 2018-04-17 06:58:40

Local clock offset: -1.558 ms

Remote clock offset: 5.841 ms

Below is generated by plot.py at 2018-04-17 08:55:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.38 Mbit/s

95th percentile per-packet one-way delay: 206.907 ms

Loss rate: 3.28%

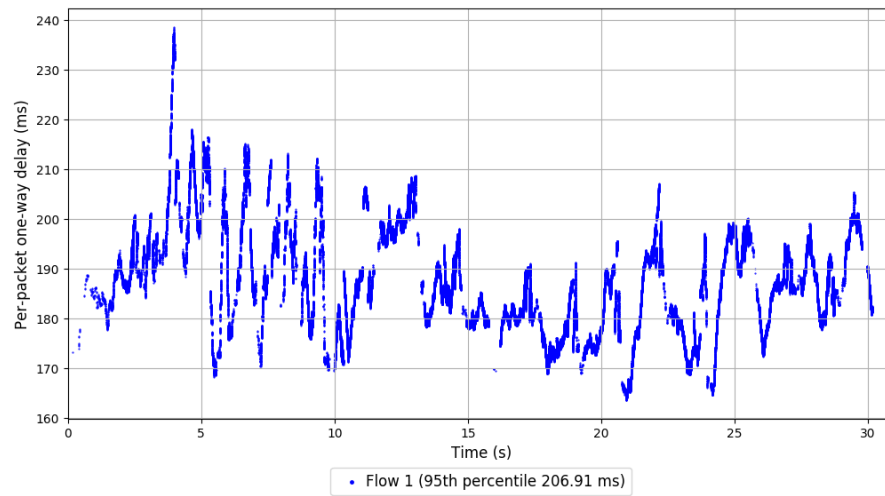
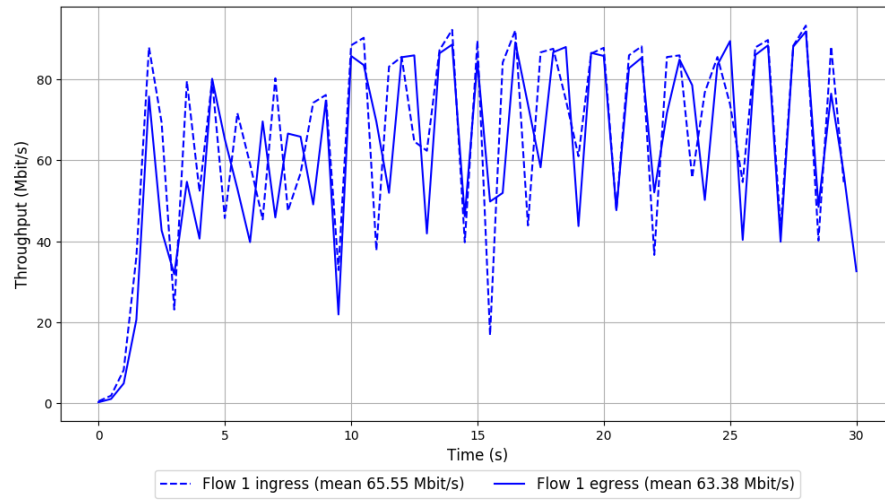
-- Flow 1:

Average throughput: 63.38 Mbit/s

95th percentile per-packet one-way delay: 206.907 ms

Loss rate: 3.28%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-04-17 07:20:05

End at: 2018-04-17 07:20:35

Local clock offset: 5.211 ms

Remote clock offset: 0.937 ms

Below is generated by plot.py at 2018-04-17 08:55:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.85 Mbit/s

95th percentile per-packet one-way delay: 162.270 ms

Loss rate: 3.80%

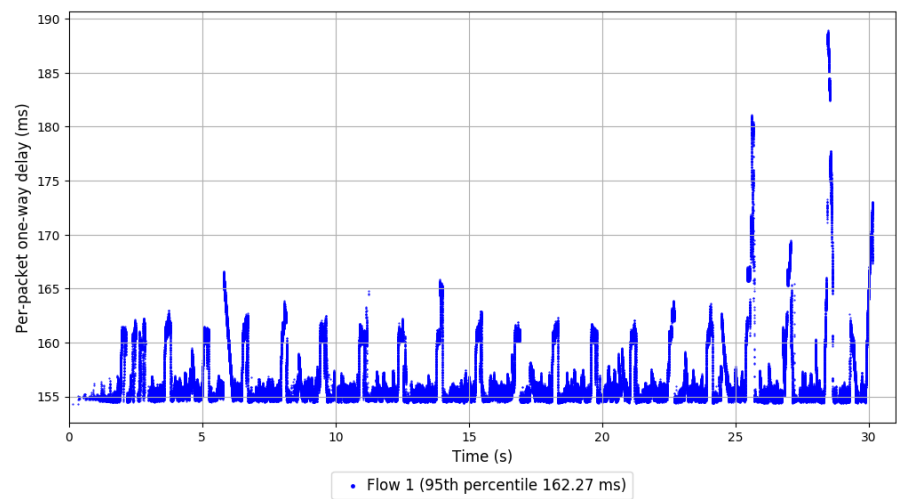
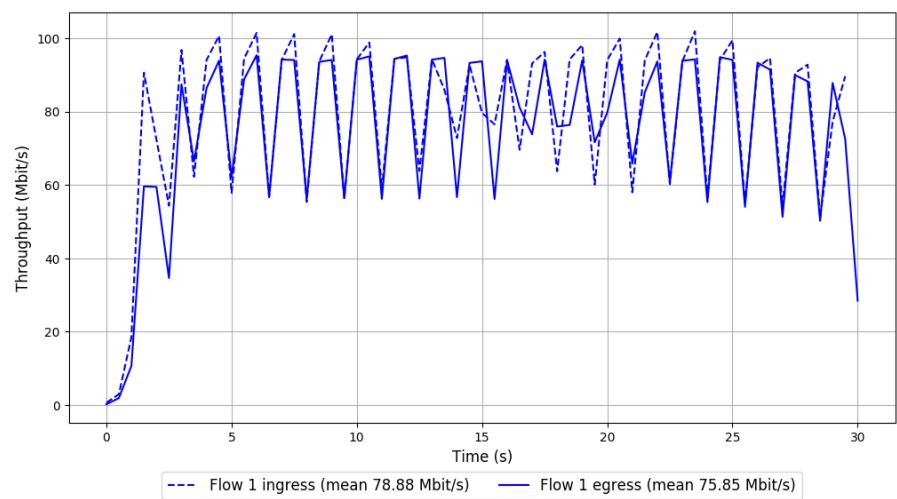
-- Flow 1:

Average throughput: 75.85 Mbit/s

95th percentile per-packet one-way delay: 162.270 ms

Loss rate: 3.80%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-17 07:41:57

End at: 2018-04-17 07:42:27

Local clock offset: 7.33 ms

Remote clock offset: 5.662 ms

Below is generated by plot.py at 2018-04-17 08:55:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.48 Mbit/s

95th percentile per-packet one-way delay: 155.859 ms

Loss rate: 3.73%

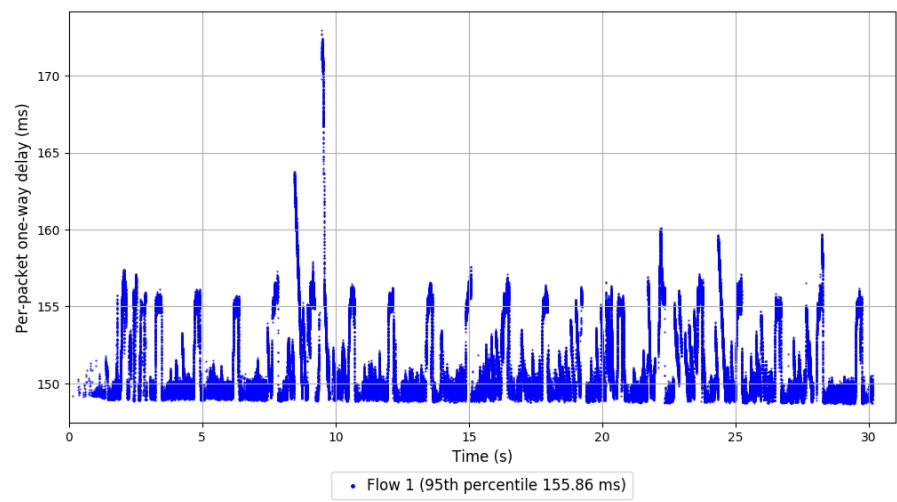
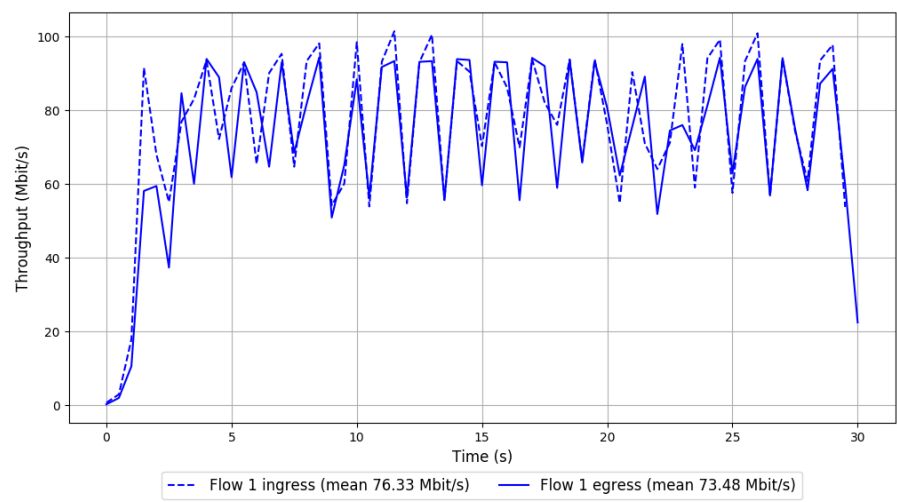
-- Flow 1:

Average throughput: 73.48 Mbit/s

95th percentile per-packet one-way delay: 155.859 ms

Loss rate: 3.73%

Run 8: Report of TCP BBR — Data Link

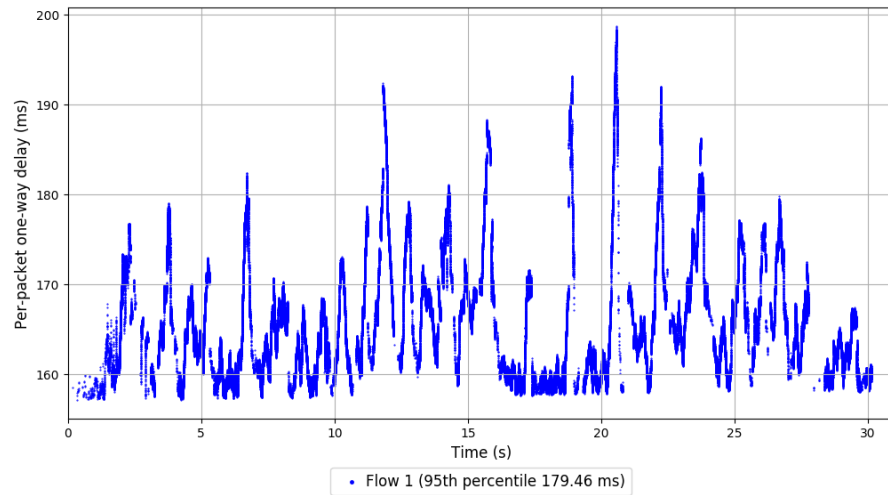
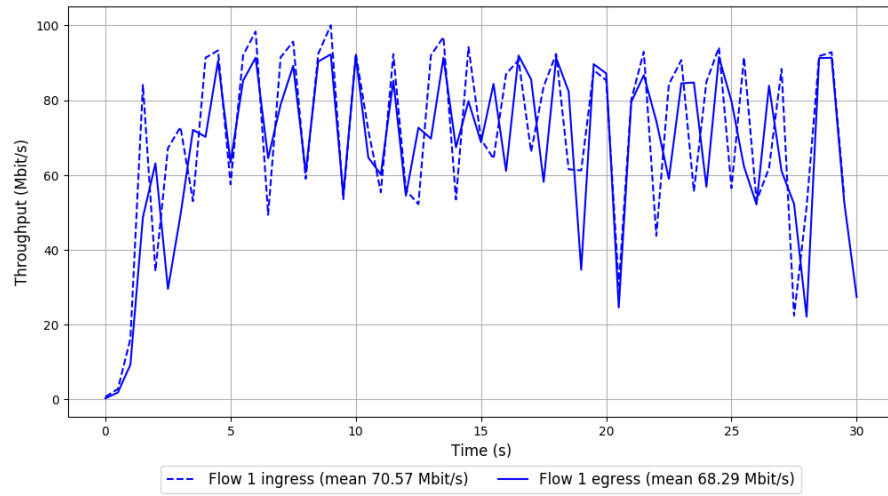


Run 9: Statistics of TCP BBR

Start at: 2018-04-17 08:04:30
End at: 2018-04-17 08:05:00
Local clock offset: 6.424 ms
Remote clock offset: 18.889 ms

Below is generated by plot.py at 2018-04-17 08:56:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 68.29 Mbit/s
95th percentile per-packet one-way delay: 179.457 ms
Loss rate: 3.24%
-- Flow 1:
Average throughput: 68.29 Mbit/s
95th percentile per-packet one-way delay: 179.457 ms
Loss rate: 3.24%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-04-17 08:25:41

End at: 2018-04-17 08:26:11

Local clock offset: 1.834 ms

Remote clock offset: 1.559 ms

Below is generated by plot.py at 2018-04-17 08:57:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.29 Mbit/s

95th percentile per-packet one-way delay: 164.027 ms

Loss rate: 3.28%

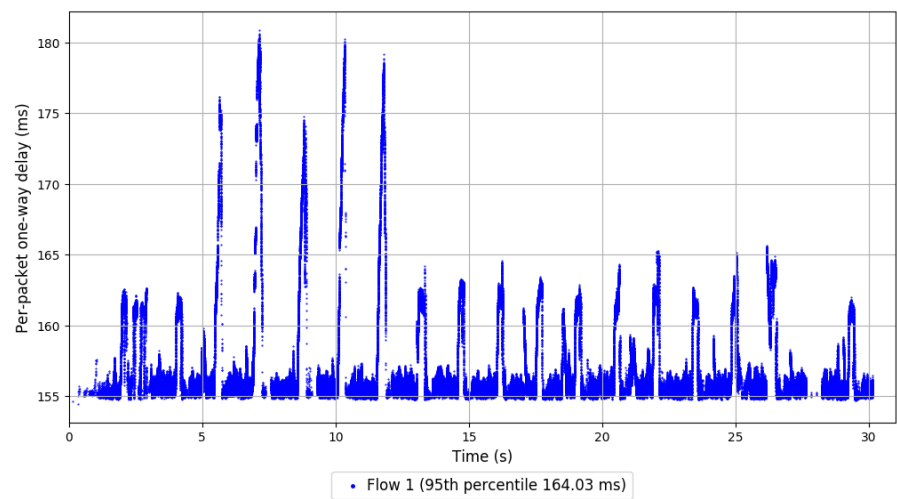
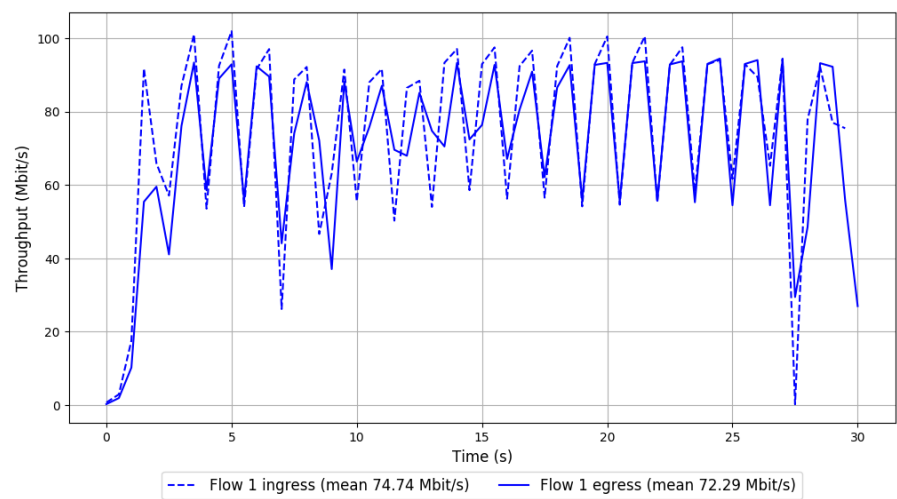
-- Flow 1:

Average throughput: 72.29 Mbit/s

95th percentile per-packet one-way delay: 164.027 ms

Loss rate: 3.28%

Run 10: Report of TCP BBR — Data Link

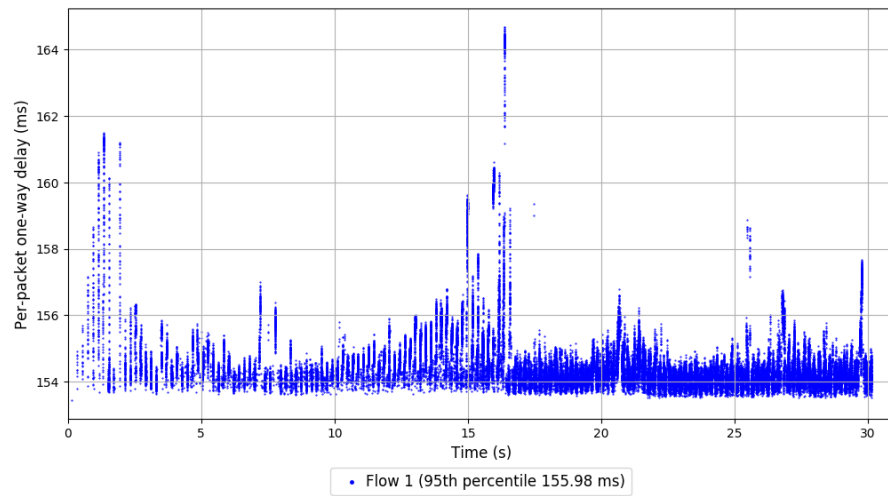
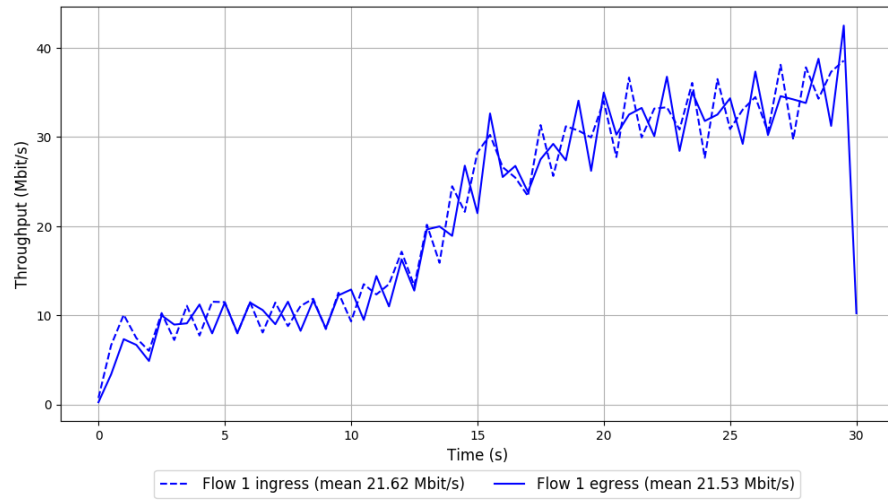


Run 1: Statistics of TCP Cubic

Start at: 2018-04-17 05:09:00
End at: 2018-04-17 05:09:30
Local clock offset: 4.2 ms
Remote clock offset: -14.026 ms

Below is generated by plot.py at 2018-04-17 08:57:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 21.53 Mbit/s
95th percentile per-packet one-way delay: 155.982 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 21.53 Mbit/s
95th percentile per-packet one-way delay: 155.982 ms
Loss rate: 0.41%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-04-17 05:30:08

End at: 2018-04-17 05:30:38

Local clock offset: 6.94 ms

Remote clock offset: 4.448 ms

Below is generated by plot.py at 2018-04-17 08:57:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.62 Mbit/s

95th percentile per-packet one-way delay: 174.663 ms

Loss rate: 0.17%

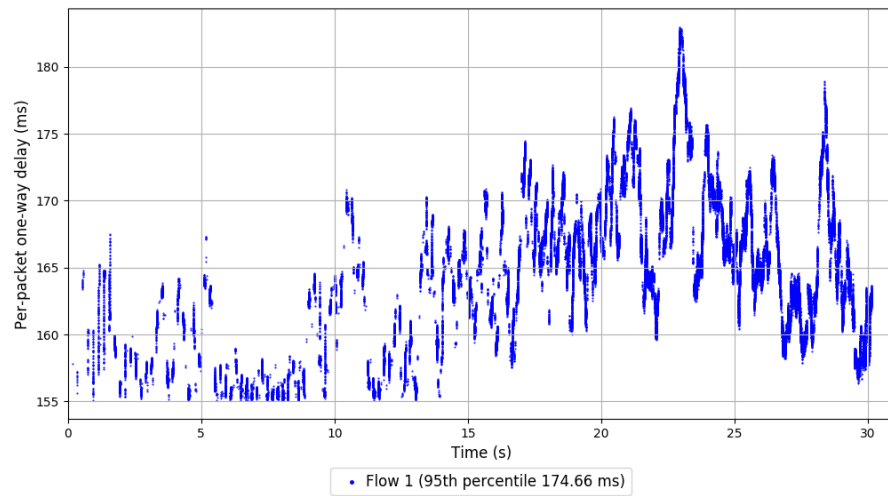
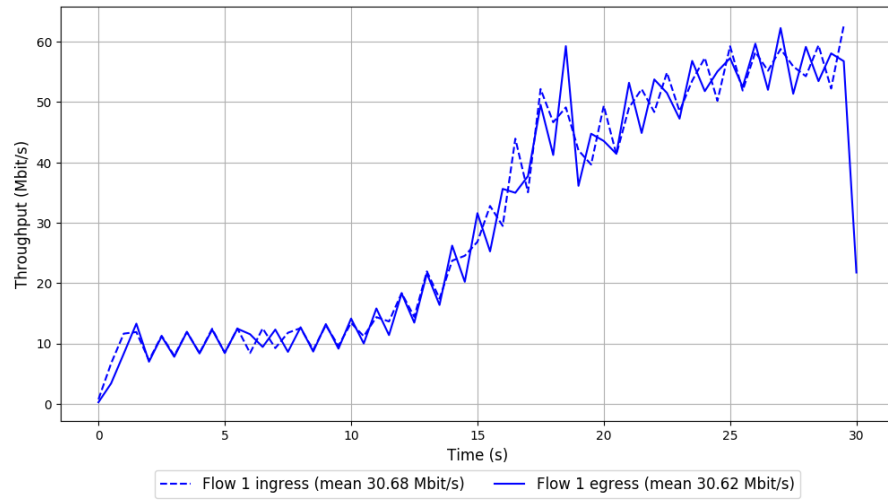
-- Flow 1:

Average throughput: 30.62 Mbit/s

95th percentile per-packet one-way delay: 174.663 ms

Loss rate: 0.17%

Run 2: Report of TCP Cubic — Data Link

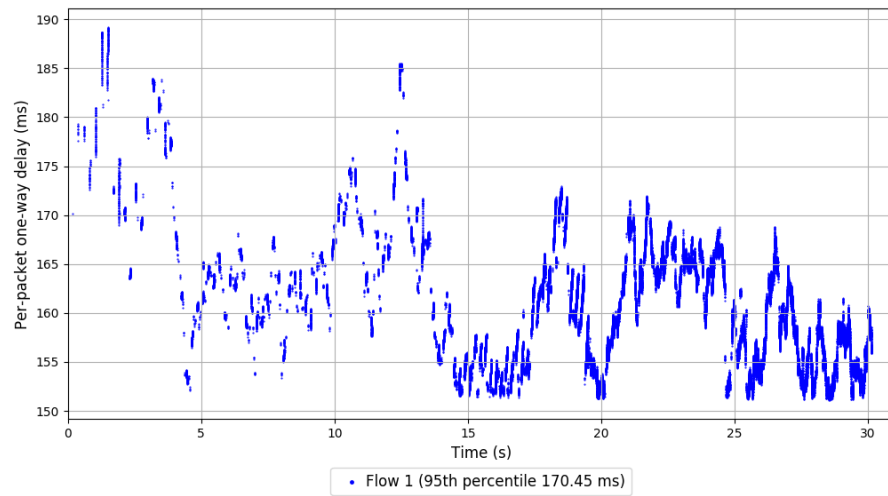
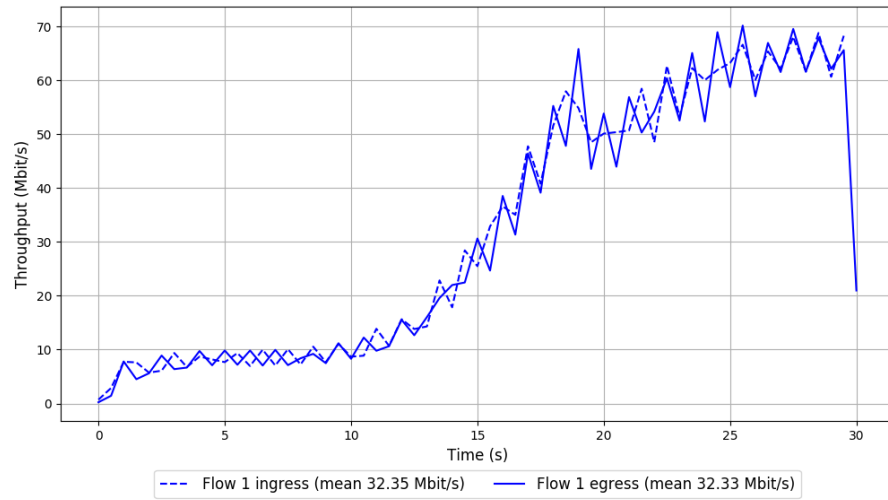


Run 3: Statistics of TCP Cubic

Start at: 2018-04-17 05:51:24
End at: 2018-04-17 05:51:54
Local clock offset: 12.973 ms
Remote clock offset: -7.988 ms

Below is generated by plot.py at 2018-04-17 08:57:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 32.33 Mbit/s
95th percentile per-packet one-way delay: 170.452 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 32.33 Mbit/s
95th percentile per-packet one-way delay: 170.452 ms
Loss rate: 0.12%

Run 3: Report of TCP Cubic — Data Link

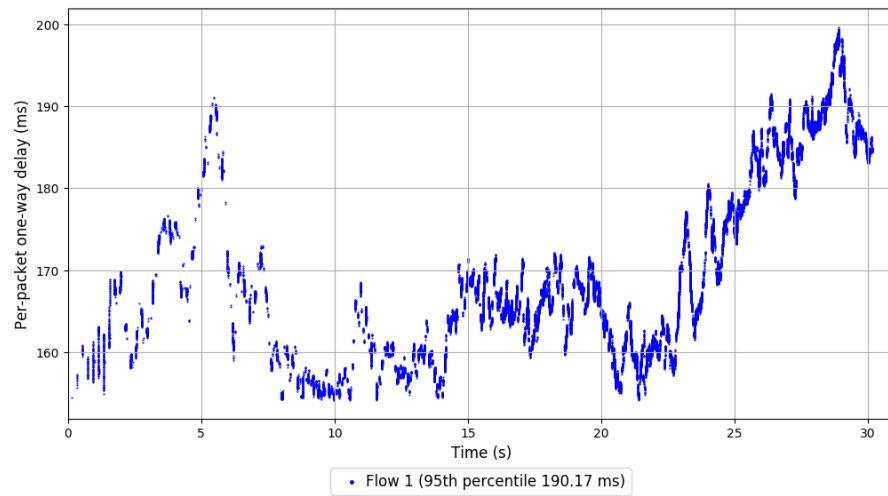
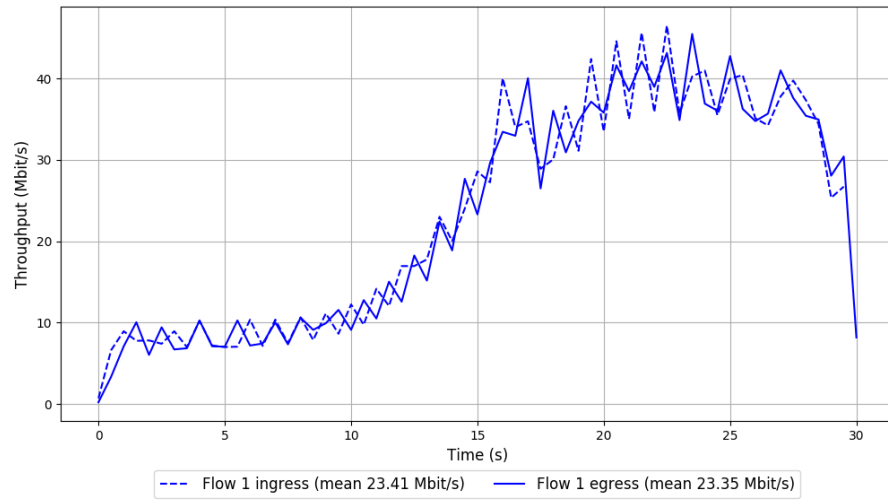


Run 4: Statistics of TCP Cubic

Start at: 2018-04-17 06:12:36
End at: 2018-04-17 06:13:06
Local clock offset: 8.937 ms
Remote clock offset: -14.631 ms

Below is generated by plot.py at 2018-04-17 08:57:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 23.35 Mbit/s
95th percentile per-packet one-way delay: 190.172 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 23.35 Mbit/s
95th percentile per-packet one-way delay: 190.172 ms
Loss rate: 0.16%

Run 4: Report of TCP Cubic — Data Link

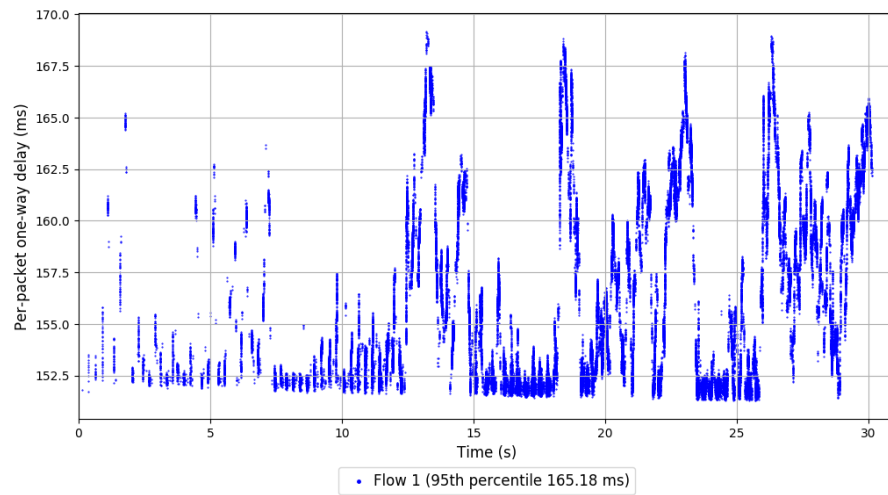
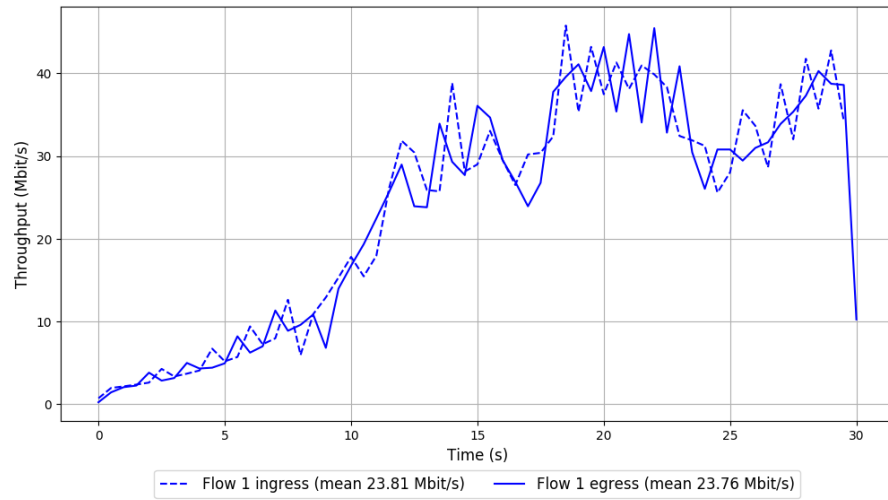


Run 5: Statistics of TCP Cubic

Start at: 2018-04-17 06:33:45
End at: 2018-04-17 06:34:15
Local clock offset: 7.718 ms
Remote clock offset: -0.915 ms

Below is generated by plot.py at 2018-04-17 08:57:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 23.76 Mbit/s
95th percentile per-packet one-way delay: 165.179 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 23.76 Mbit/s
95th percentile per-packet one-way delay: 165.179 ms
Loss rate: 0.18%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-04-17 07:00:43

End at: 2018-04-17 07:01:13

Local clock offset: -1.91 ms

Remote clock offset: 5.442 ms

Below is generated by plot.py at 2018-04-17 08:57:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.72 Mbit/s

95th percentile per-packet one-way delay: 197.360 ms

Loss rate: 0.17%

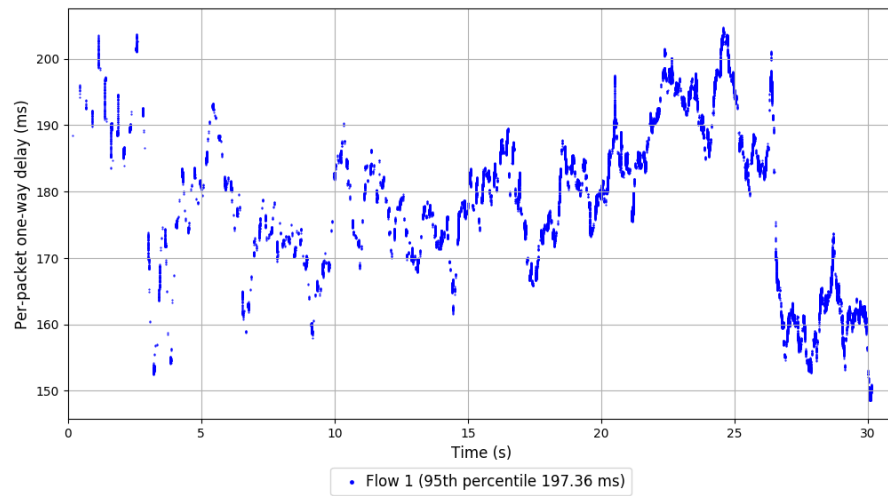
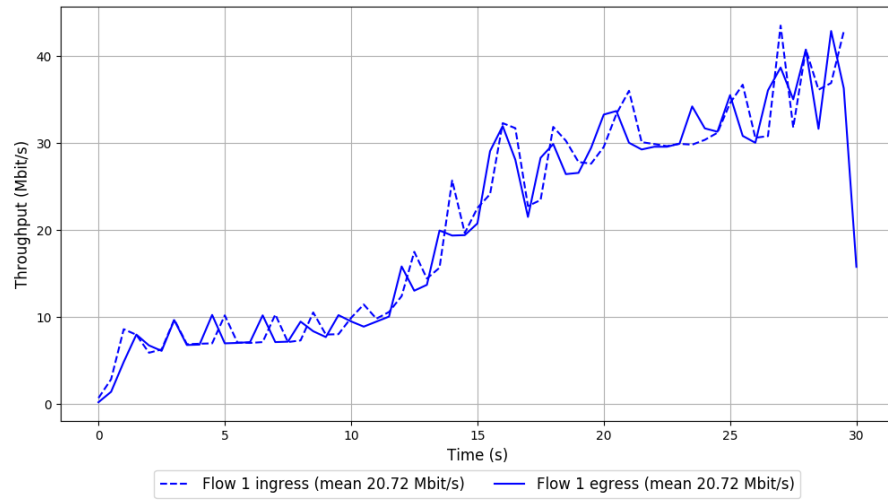
-- Flow 1:

Average throughput: 20.72 Mbit/s

95th percentile per-packet one-way delay: 197.360 ms

Loss rate: 0.17%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-17 07:22:37

End at: 2018-04-17 07:23:07

Local clock offset: 5.993 ms

Remote clock offset: 2.288 ms

Below is generated by plot.py at 2018-04-17 08:57:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.36 Mbit/s

95th percentile per-packet one-way delay: 157.465 ms

Loss rate: 0.23%

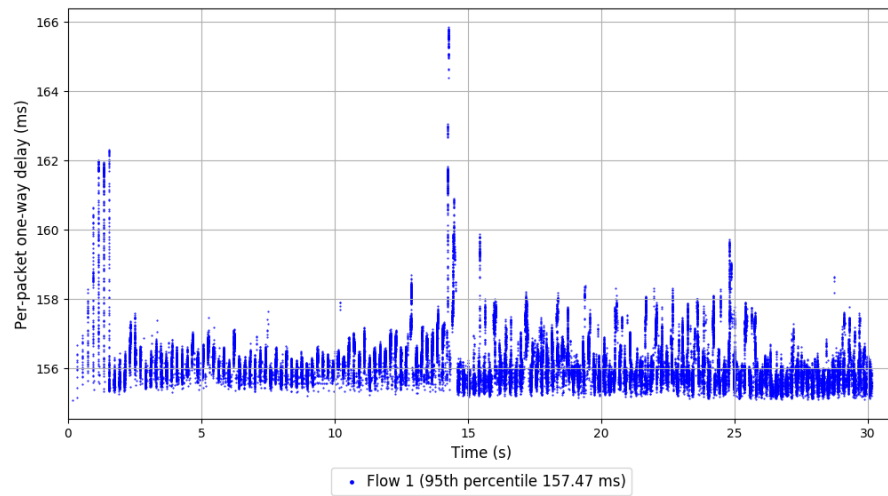
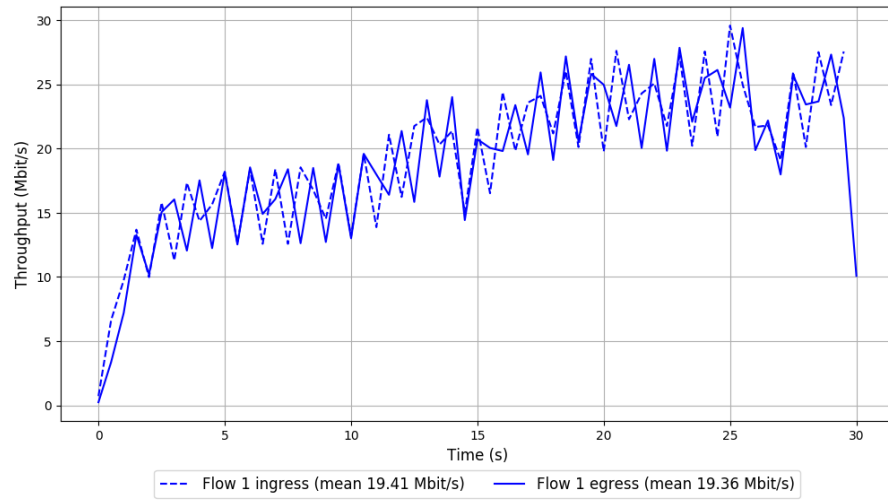
-- Flow 1:

Average throughput: 19.36 Mbit/s

95th percentile per-packet one-way delay: 157.465 ms

Loss rate: 0.23%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-04-17 07:44:30

End at: 2018-04-17 07:45:00

Local clock offset: 7.119 ms

Remote clock offset: 6.664 ms

Below is generated by plot.py at 2018-04-17 08:57:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.09 Mbit/s

95th percentile per-packet one-way delay: 154.305 ms

Loss rate: 0.79%

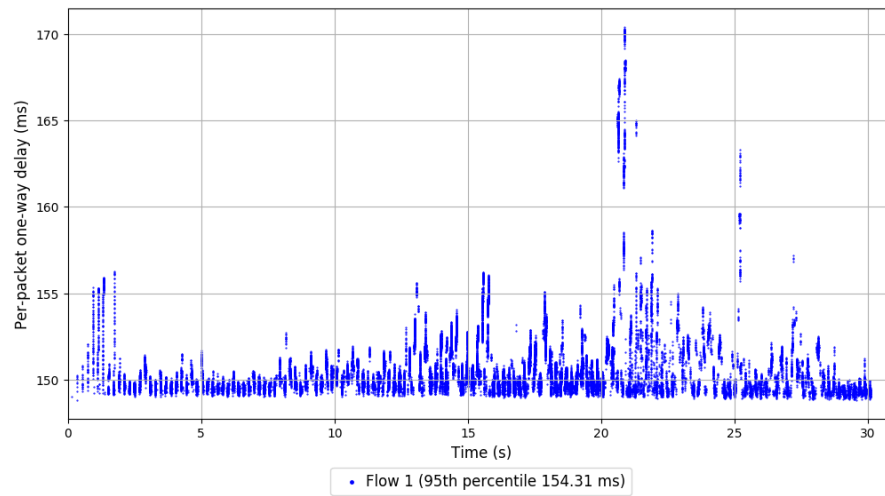
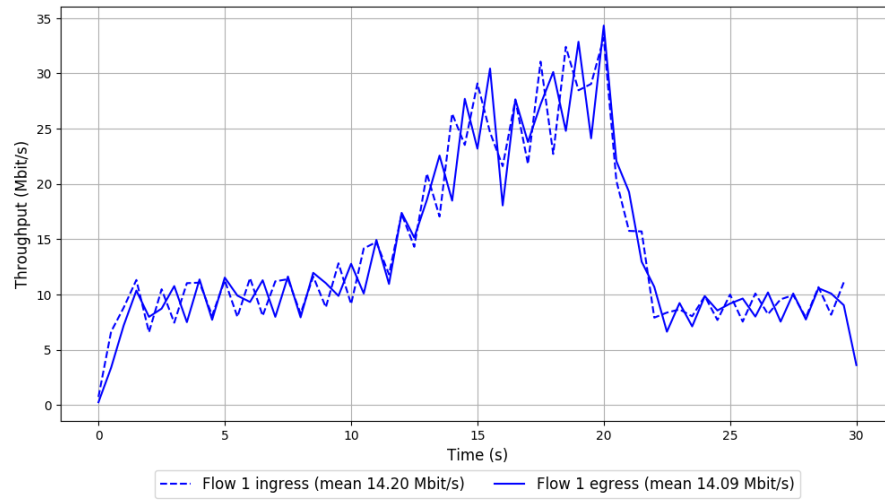
-- Flow 1:

Average throughput: 14.09 Mbit/s

95th percentile per-packet one-way delay: 154.305 ms

Loss rate: 0.79%

Run 8: Report of TCP Cubic — Data Link

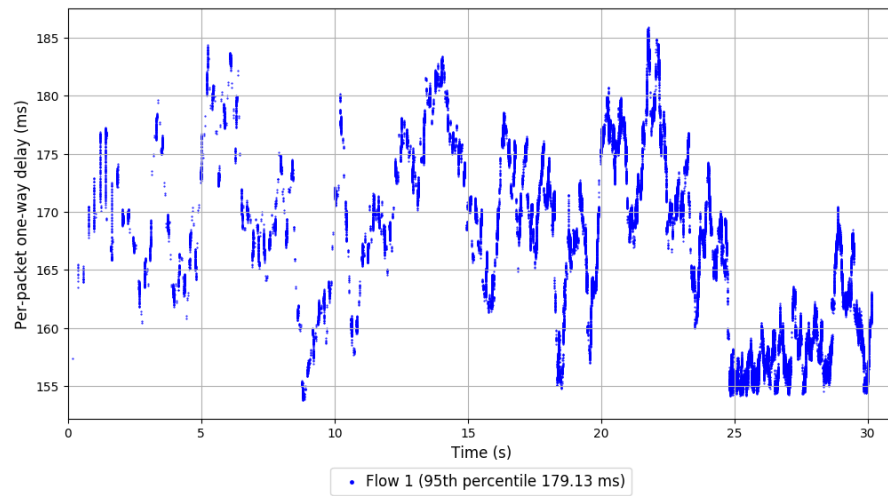
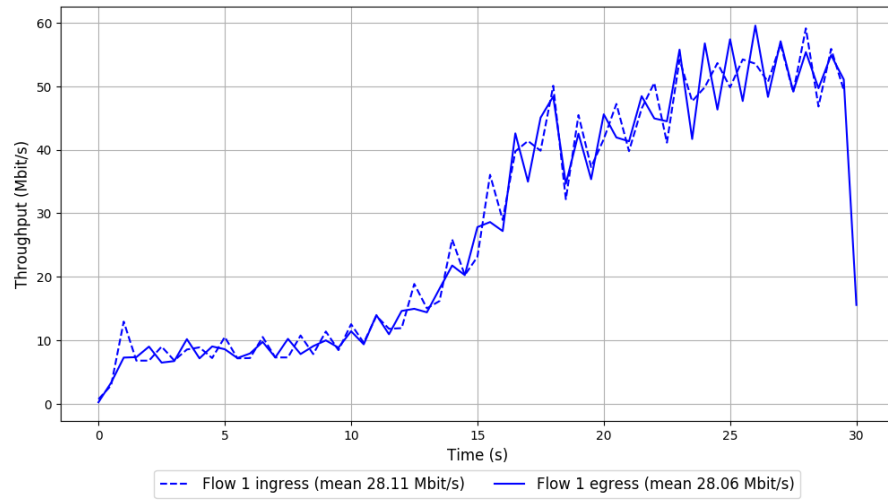


Run 9: Statistics of TCP Cubic

Start at: 2018-04-17 08:07:01
End at: 2018-04-17 08:07:31
Local clock offset: 6.409 ms
Remote clock offset: 14.541 ms

Below is generated by plot.py at 2018-04-17 08:57:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 28.06 Mbit/s
95th percentile per-packet one-way delay: 179.131 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 28.06 Mbit/s
95th percentile per-packet one-way delay: 179.131 ms
Loss rate: 0.17%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-17 08:28:11

End at: 2018-04-17 08:28:42

Local clock offset: 1.171 ms

Remote clock offset: 1.314 ms

Below is generated by plot.py at 2018-04-17 08:57:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.98 Mbit/s

95th percentile per-packet one-way delay: 156.946 ms

Loss rate: 0.22%

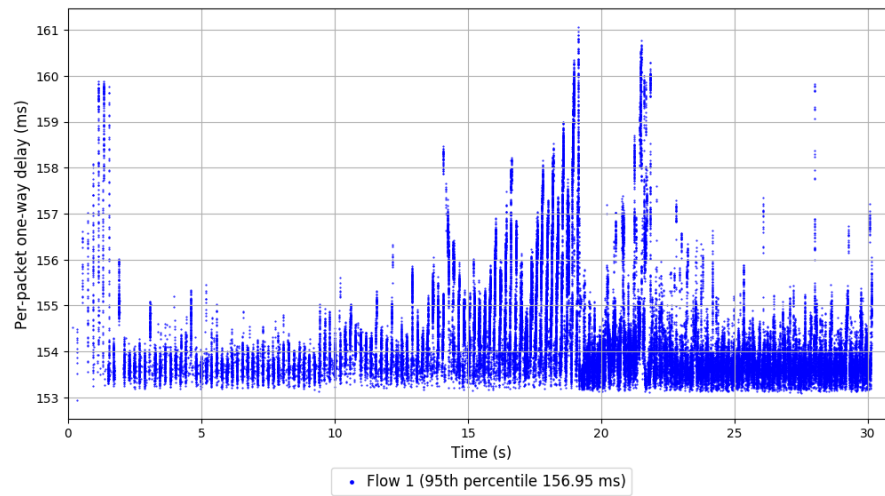
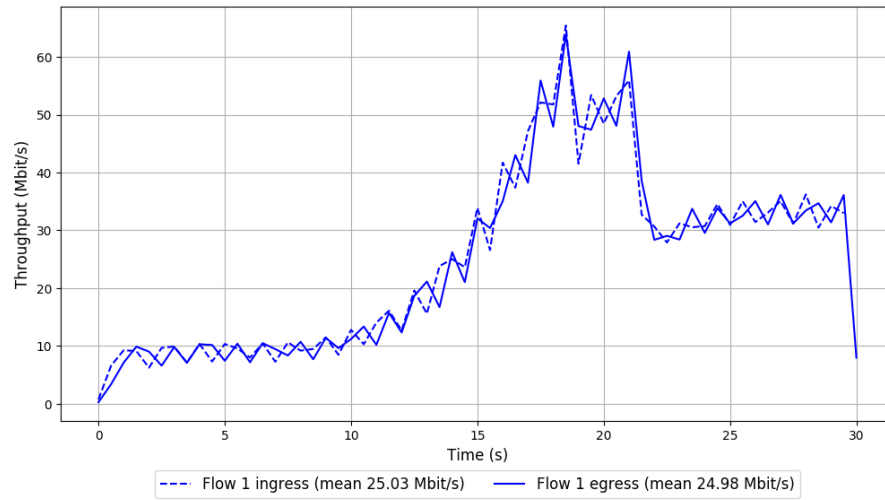
-- Flow 1:

Average throughput: 24.98 Mbit/s

95th percentile per-packet one-way delay: 156.946 ms

Loss rate: 0.22%

Run 10: Report of TCP Cubic — Data Link

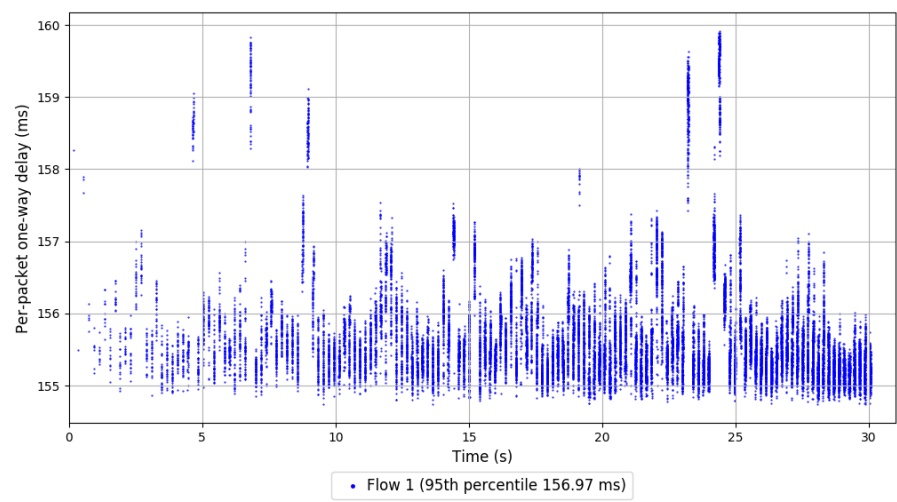
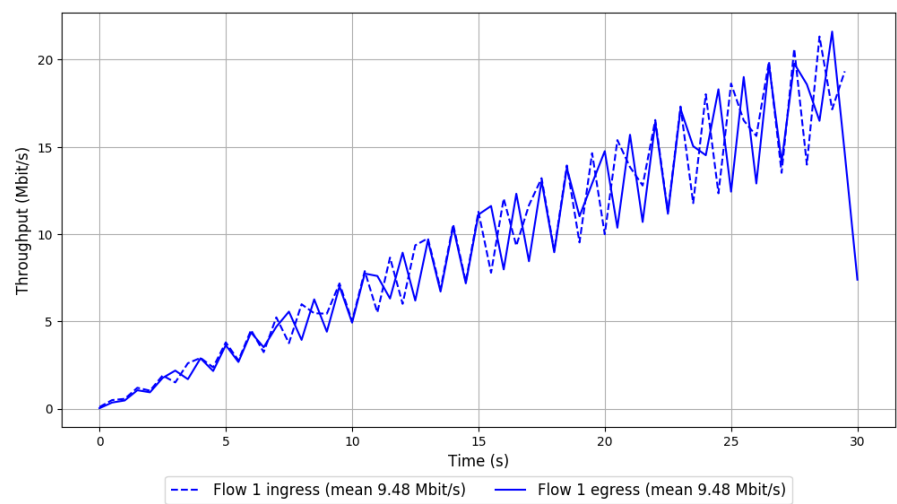


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-17 05:11:26
End at: 2018-04-17 05:11:56
Local clock offset: 3.628 ms
Remote clock offset: -14.106 ms

# Below is generated by plot.py at 2018-04-17 08:57:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.48 Mbit/s
95th percentile per-packet one-way delay: 156.975 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.48 Mbit/s
95th percentile per-packet one-way delay: 156.975 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

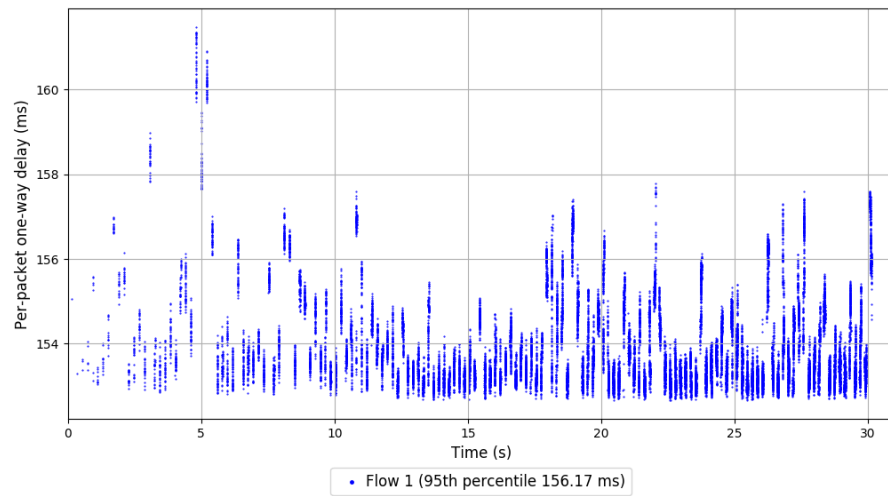
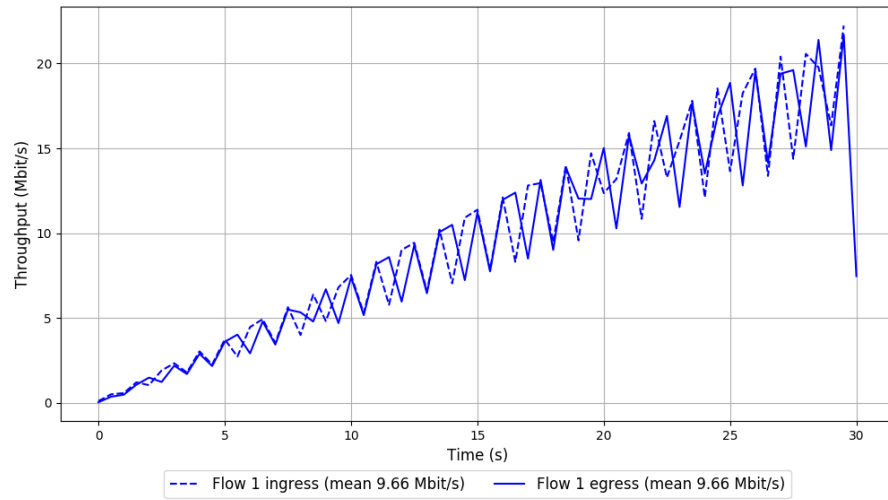


```
Run 2: Statistics of LEDBAT

Start at: 2018-04-17 05:32:35
End at: 2018-04-17 05:33:05
Local clock offset: 8.183 ms
Remote clock offset: 5.414 ms

# Below is generated by plot.py at 2018-04-17 08:57:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.66 Mbit/s
95th percentile per-packet one-way delay: 156.169 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.66 Mbit/s
95th percentile per-packet one-way delay: 156.169 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

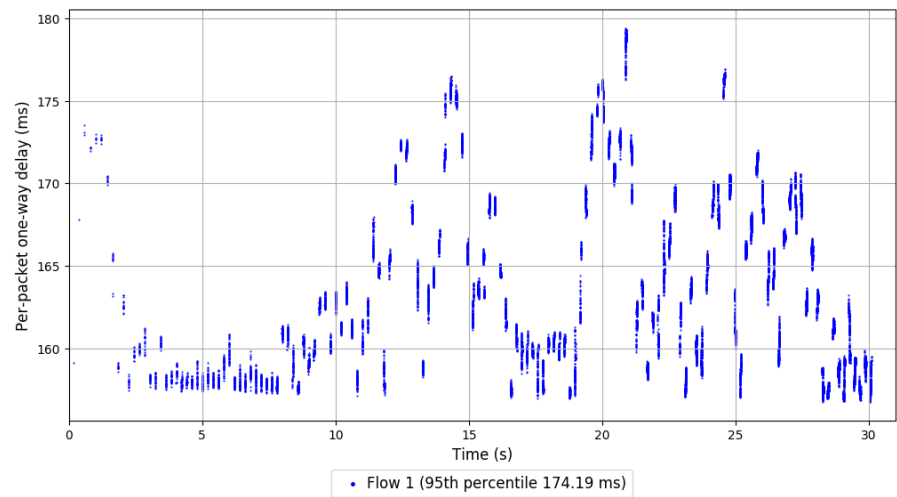
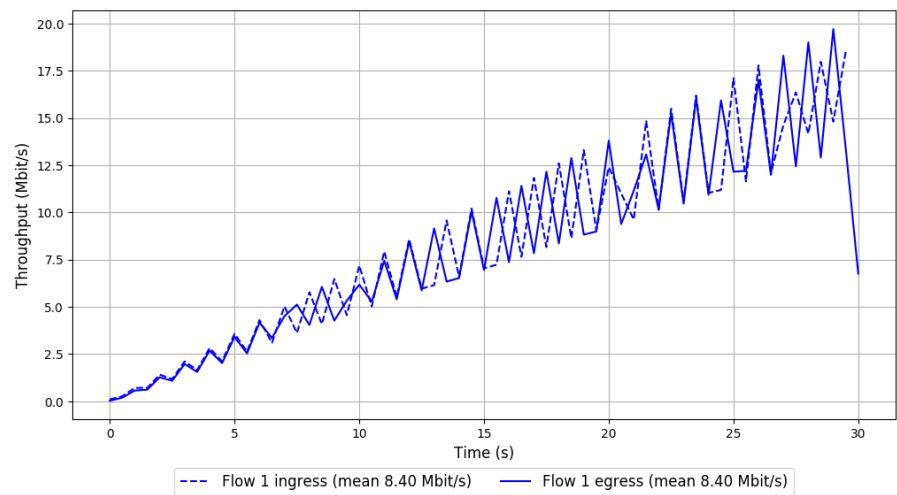


Run 3: Statistics of LEDBAT

Start at: 2018-04-17 05:53:51
End at: 2018-04-17 05:54:21
Local clock offset: 13.115 ms
Remote clock offset: -3.744 ms

Below is generated by plot.py at 2018-04-17 08:57:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 8.40 Mbit/s
95th percentile per-packet one-way delay: 174.187 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.40 Mbit/s
95th percentile per-packet one-way delay: 174.187 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

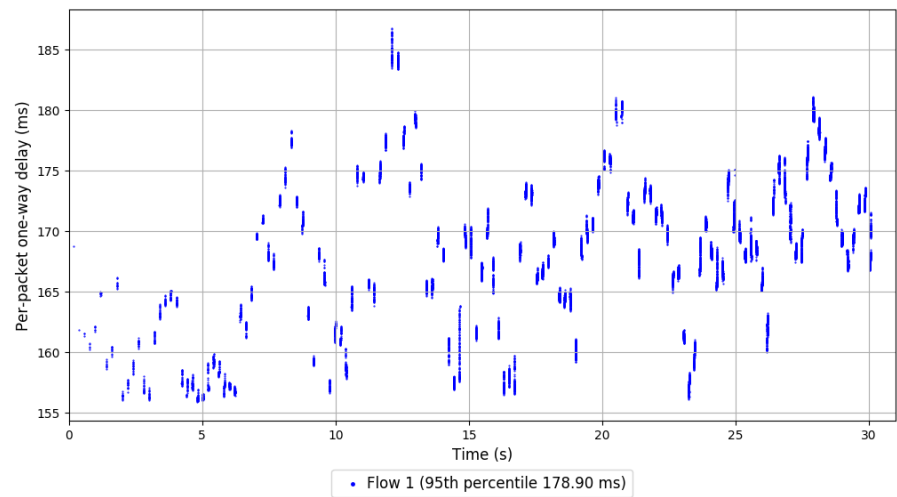
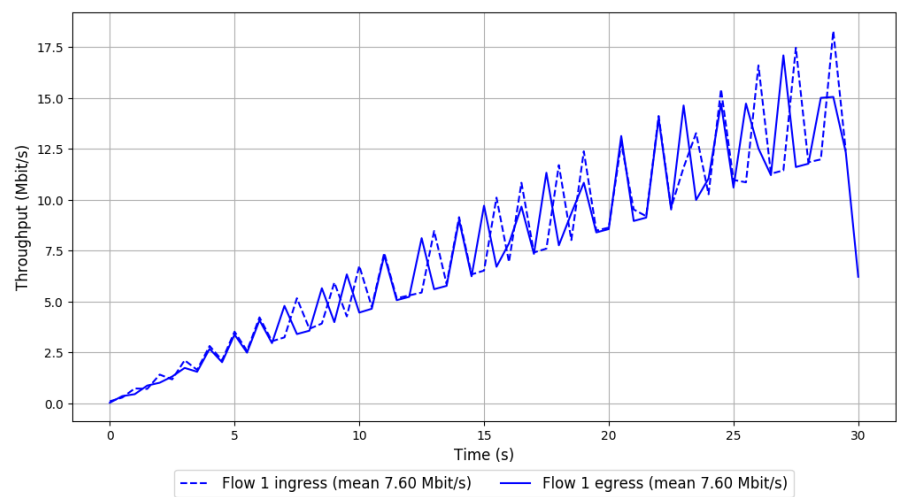


Run 4: Statistics of LEDBAT

Start at: 2018-04-17 06:15:03
End at: 2018-04-17 06:15:33
Local clock offset: 8.839 ms
Remote clock offset: -14.977 ms

Below is generated by plot.py at 2018-04-17 08:57:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.60 Mbit/s
95th percentile per-packet one-way delay: 178.903 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.60 Mbit/s
95th percentile per-packet one-way delay: 178.903 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

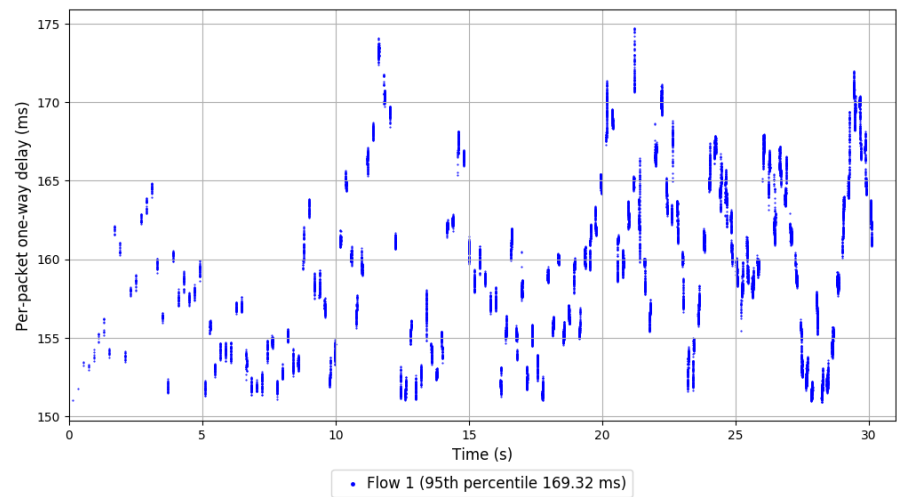
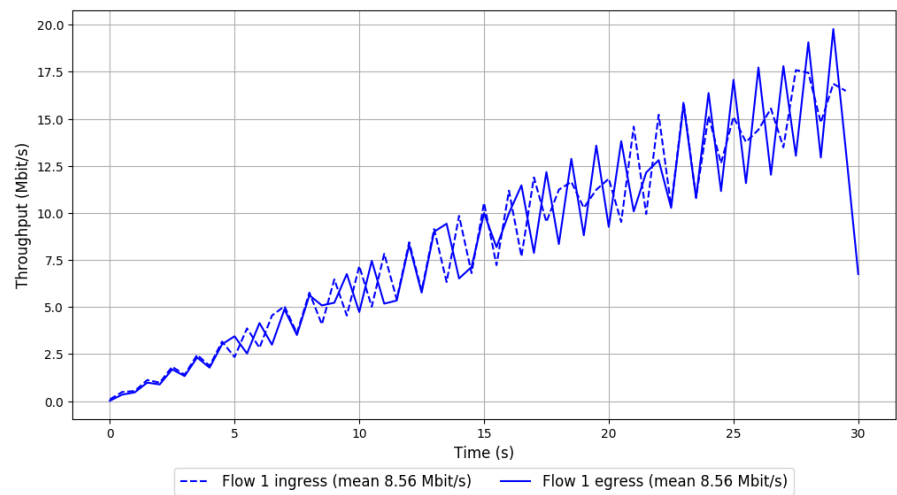


Run 5: Statistics of LEDBAT

Start at: 2018-04-17 06:41:43
End at: 2018-04-17 06:42:13
Local clock offset: 2.737 ms
Remote clock offset: -1.689 ms

Below is generated by plot.py at 2018-04-17 08:57:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 8.56 Mbit/s
95th percentile per-packet one-way delay: 169.322 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.56 Mbit/s
95th percentile per-packet one-way delay: 169.322 ms
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

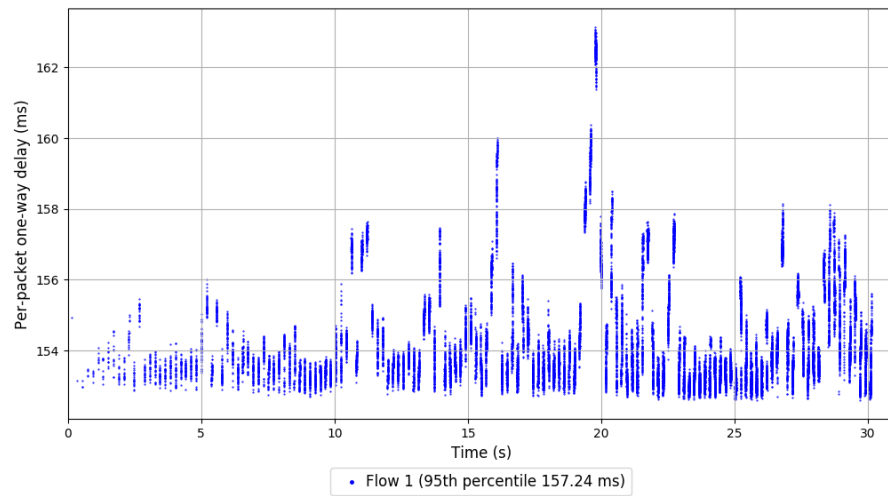
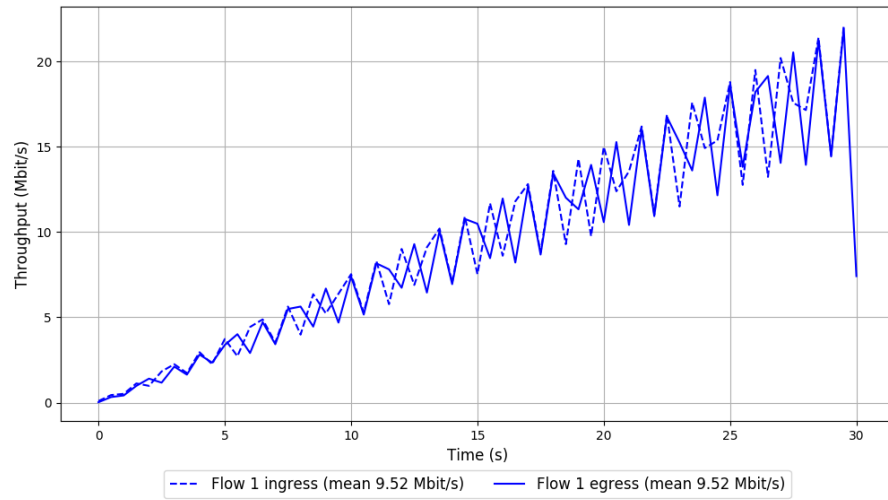


Run 6: Statistics of LEDBAT

Start at: 2018-04-17 07:03:09
End at: 2018-04-17 07:03:39
Local clock offset: -2.158 ms
Remote clock offset: 11.157 ms

Below is generated by plot.py at 2018-04-17 08:57:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.52 Mbit/s
95th percentile per-packet one-way delay: 157.241 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.52 Mbit/s
95th percentile per-packet one-way delay: 157.241 ms
Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-04-17 07:25:02

End at: 2018-04-17 07:25:32

Local clock offset: 6.22 ms

Remote clock offset: 3.576 ms

Below is generated by plot.py at 2018-04-17 08:57:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.35 Mbit/s

95th percentile per-packet one-way delay: 165.813 ms

Loss rate: 0.00%

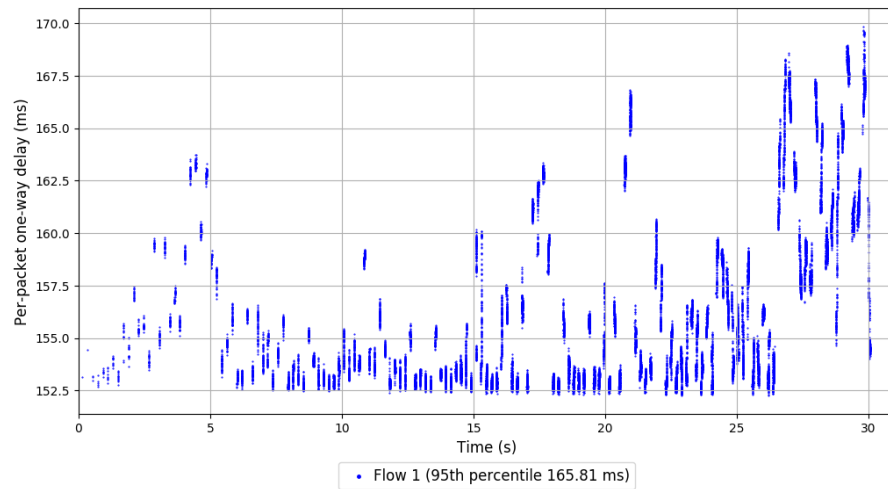
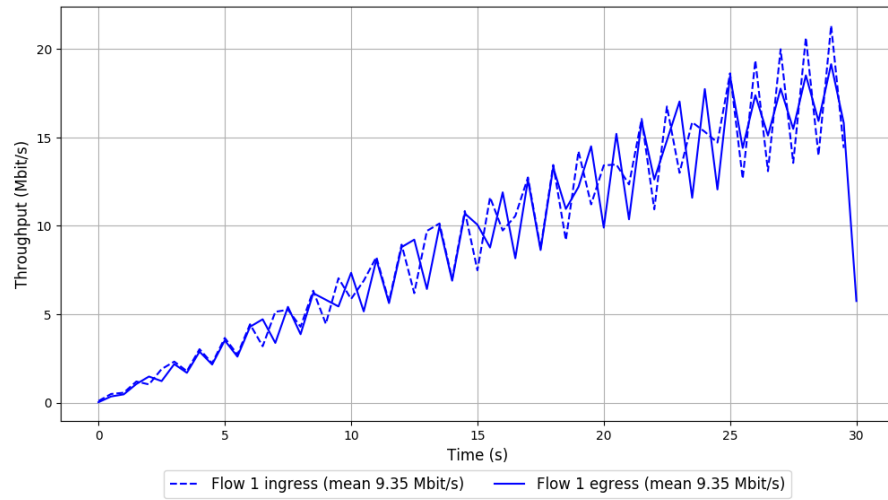
-- Flow 1:

Average throughput: 9.35 Mbit/s

95th percentile per-packet one-way delay: 165.813 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link

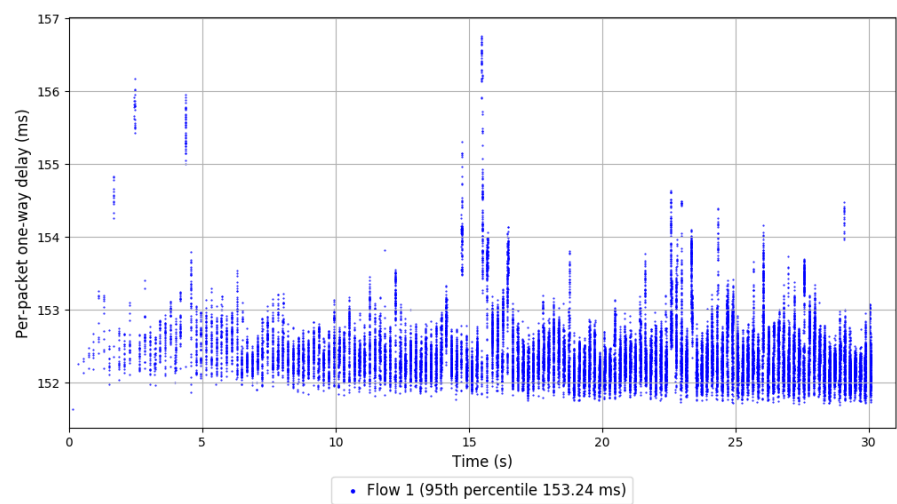
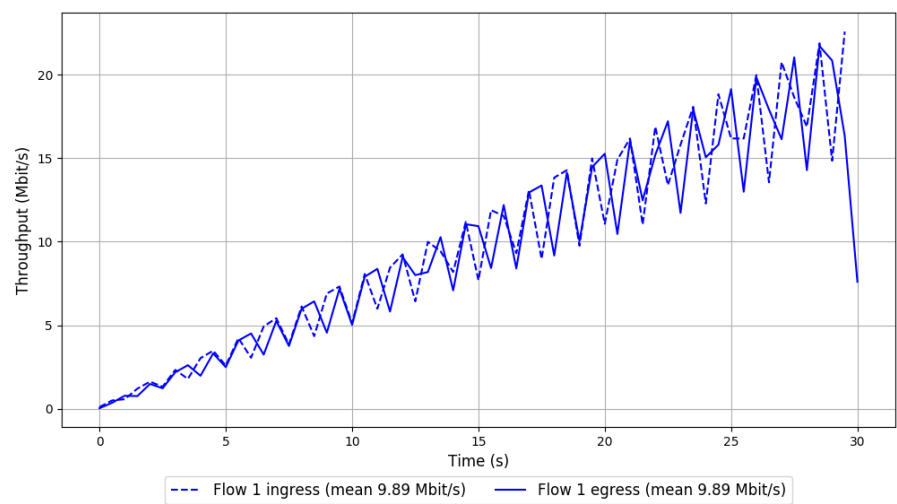


Run 8: Statistics of LEDBAT

Start at: 2018-04-17 07:47:01
End at: 2018-04-17 07:47:31
Local clock offset: 6.934 ms
Remote clock offset: 10.941 ms

Below is generated by plot.py at 2018-04-17 08:57:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.89 Mbit/s
95th percentile per-packet one-way delay: 153.243 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.89 Mbit/s
95th percentile per-packet one-way delay: 153.243 ms
Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link

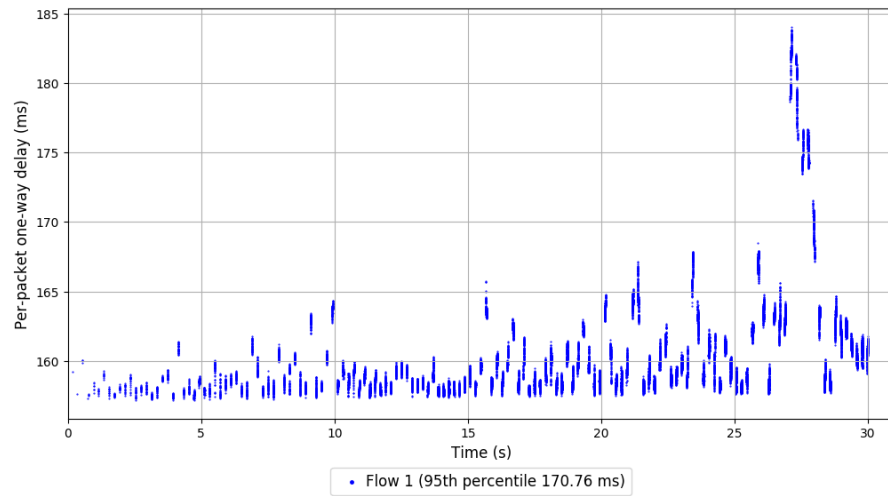
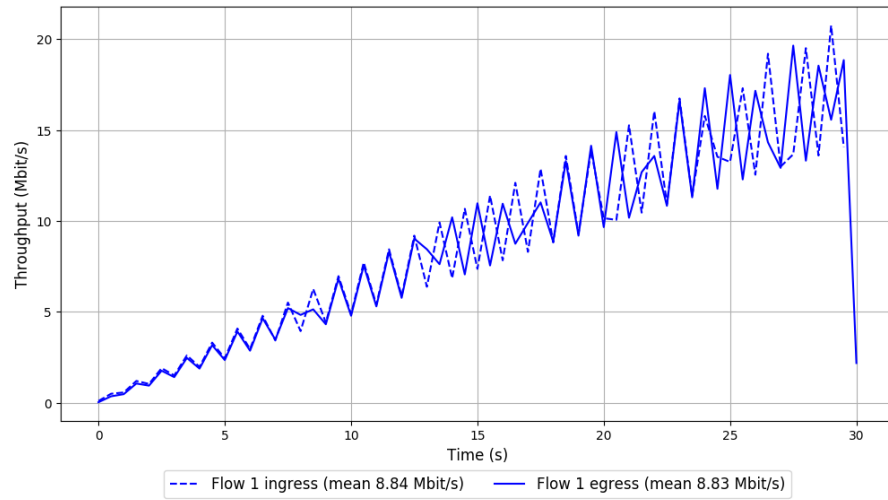


Run 9: Statistics of LEDBAT

Start at: 2018-04-17 08:09:27
End at: 2018-04-17 08:09:57
Local clock offset: 6.46 ms
Remote clock offset: 10.624 ms

Below is generated by plot.py at 2018-04-17 08:57:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 8.83 Mbit/s
95th percentile per-packet one-way delay: 170.764 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.83 Mbit/s
95th percentile per-packet one-way delay: 170.764 ms
Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-17 08:30:21

End at: 2018-04-17 08:30:51

Remote clock offset: 1.135 ms

Below is generated by plot.py at 2018-04-17 08:57:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.34 Mbit/s

95th percentile per-packet one-way delay: 158.864 ms

Loss rate: 0.00%

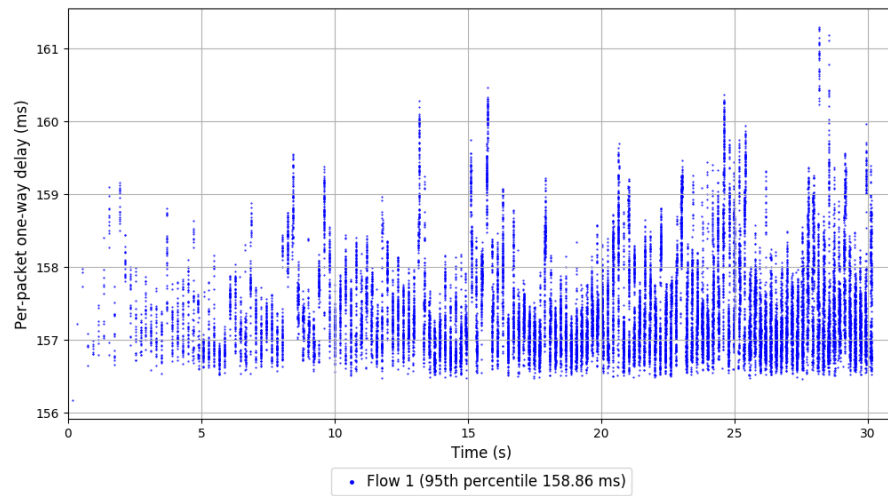
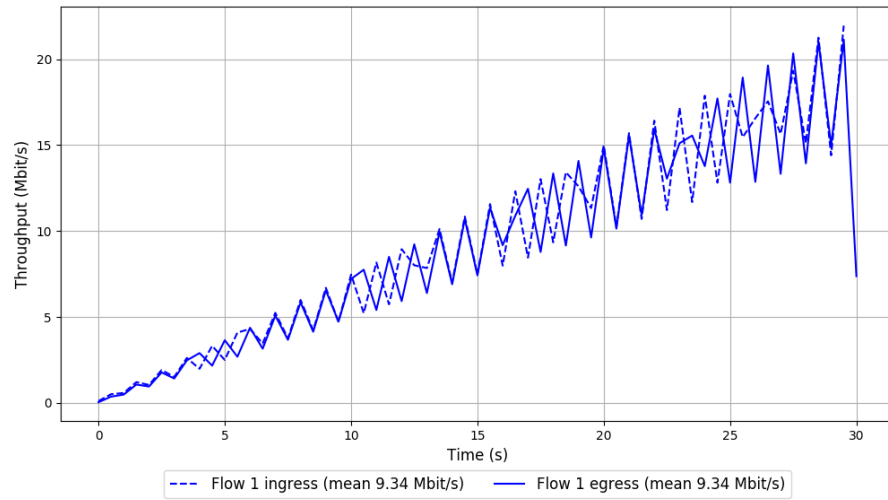
-- Flow 1:

Average throughput: 9.34 Mbit/s

95th percentile per-packet one-way delay: 158.864 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-04-17 05:07:45

End at: 2018-04-17 05:08:15

Local clock offset: 4.562 ms

Remote clock offset: -13.947 ms

Below is generated by plot.py at 2018-04-17 08:58:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.31 Mbit/s

95th percentile per-packet one-way delay: 159.329 ms

Loss rate: 1.83%

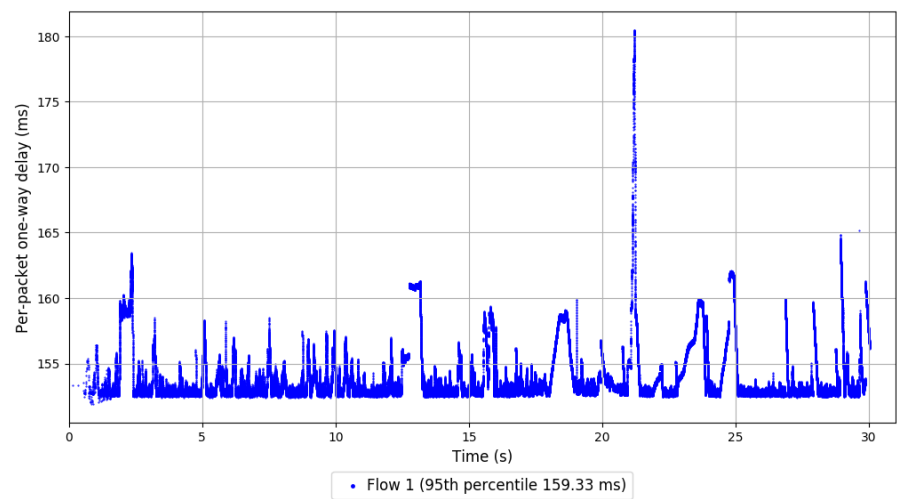
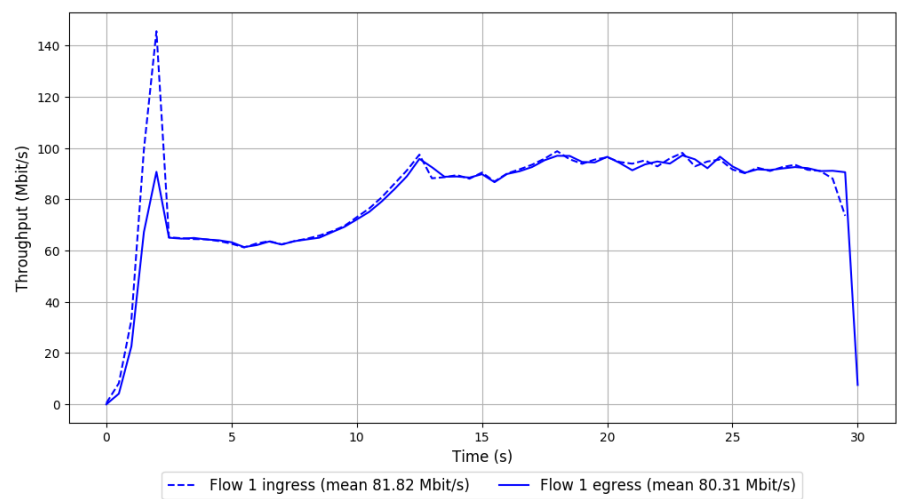
-- Flow 1:

Average throughput: 80.31 Mbit/s

95th percentile per-packet one-way delay: 159.329 ms

Loss rate: 1.83%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-04-17 05:28:55

End at: 2018-04-17 05:29:25

Local clock offset: 6.33 ms

Remote clock offset: 3.894 ms

Below is generated by plot.py at 2018-04-17 08:58:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.71 Mbit/s

95th percentile per-packet one-way delay: 158.430 ms

Loss rate: 0.00%

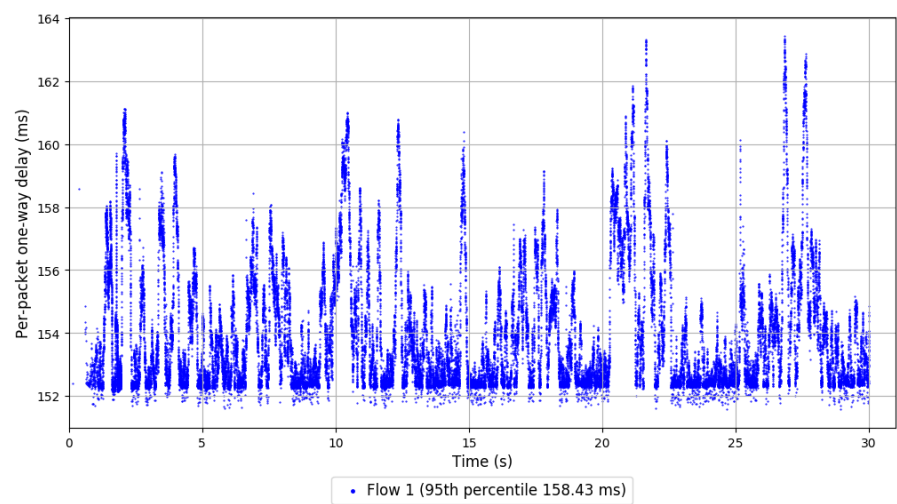
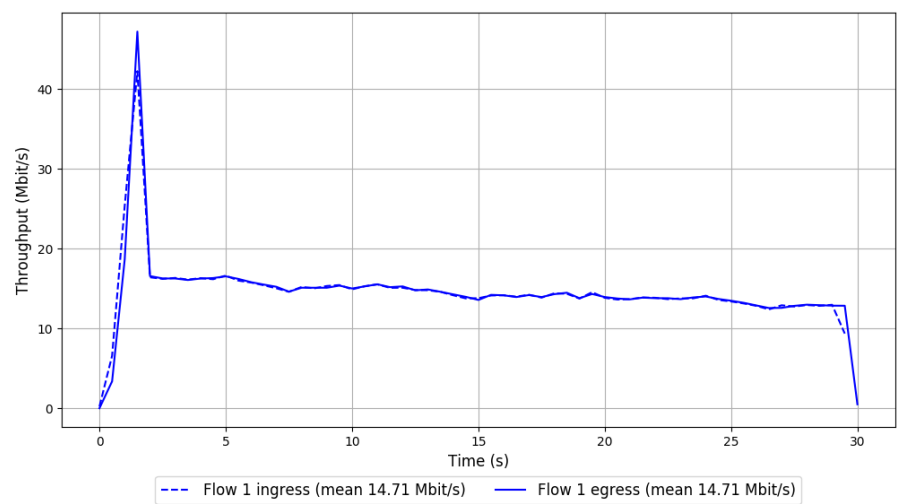
-- Flow 1:

Average throughput: 14.71 Mbit/s

95th percentile per-packet one-way delay: 158.430 ms

Loss rate: 0.00%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-04-17 05:50:09

End at: 2018-04-17 05:50:39

Local clock offset: 12.736 ms

Remote clock offset: -9.276 ms

Below is generated by plot.py at 2018-04-17 08:58:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.05 Mbit/s

95th percentile per-packet one-way delay: 159.087 ms

Loss rate: 2.01%

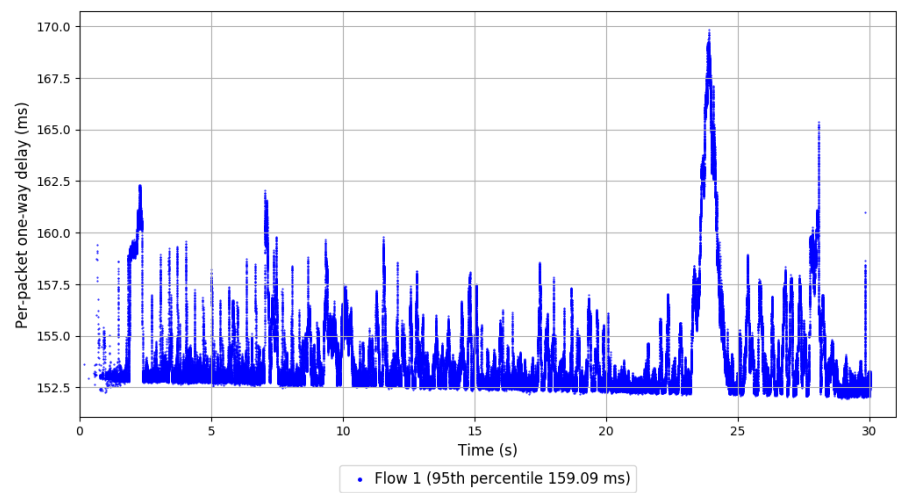
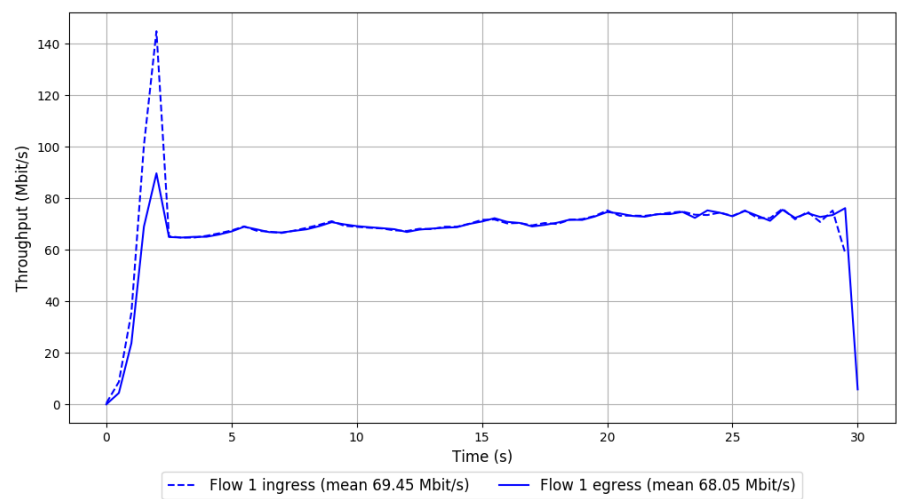
-- Flow 1:

Average throughput: 68.05 Mbit/s

95th percentile per-packet one-way delay: 159.087 ms

Loss rate: 2.01%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-04-17 06:11:21

End at: 2018-04-17 06:11:51

Local clock offset: 9.31 ms

Remote clock offset: -16.548 ms

Below is generated by plot.py at 2018-04-17 08:58:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.50 Mbit/s

95th percentile per-packet one-way delay: 174.948 ms

Loss rate: 2.12%

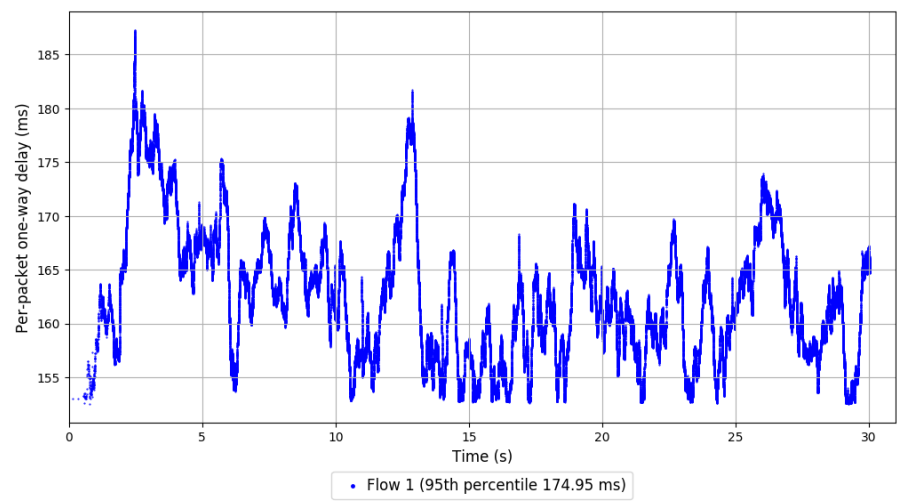
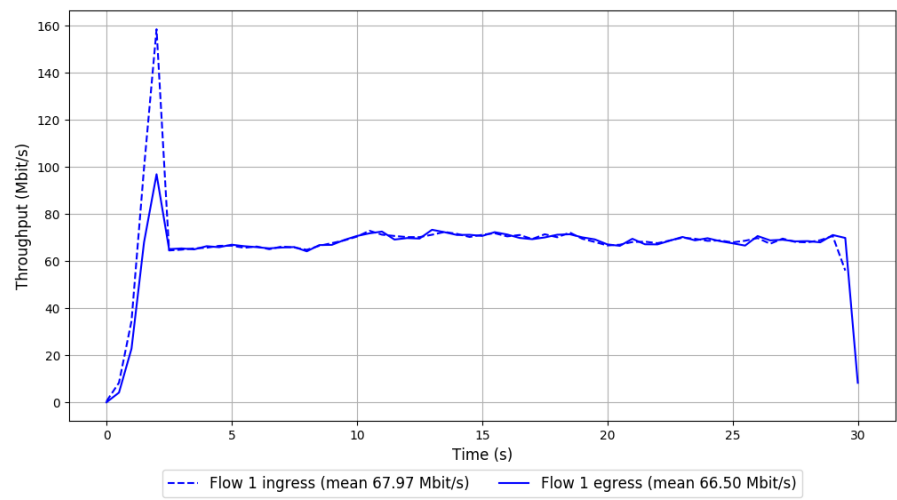
-- Flow 1:

Average throughput: 66.50 Mbit/s

95th percentile per-packet one-way delay: 174.948 ms

Loss rate: 2.12%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-04-17 06:32:30

End at: 2018-04-17 06:33:00

Local clock offset: 8.63 ms

Remote clock offset: -2.035 ms

Below is generated by plot.py at 2018-04-17 08:58:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.73 Mbit/s

95th percentile per-packet one-way delay: 163.667 ms

Loss rate: 0.00%

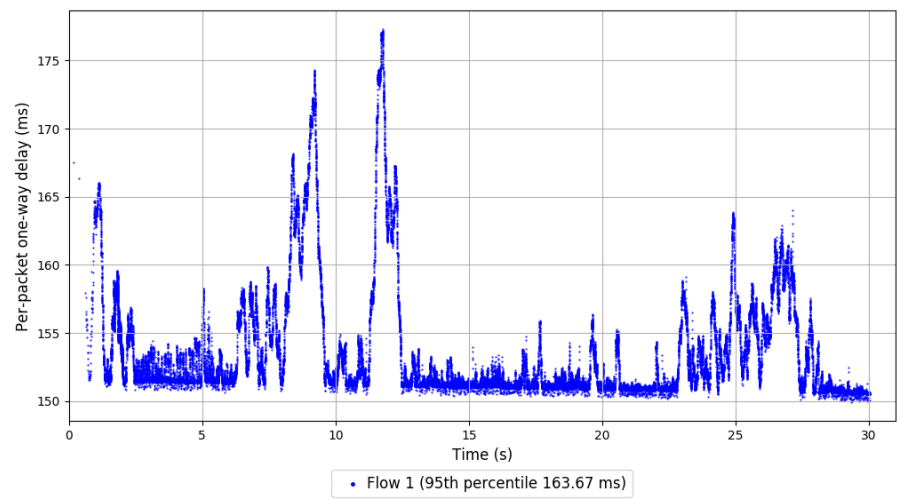
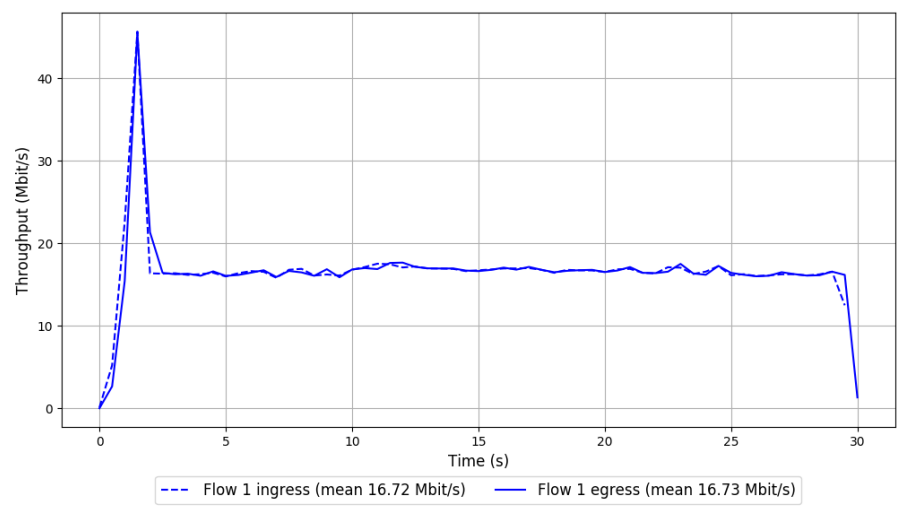
-- Flow 1:

Average throughput: 16.73 Mbit/s

95th percentile per-packet one-way delay: 163.667 ms

Loss rate: 0.00%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-04-17 06:59:27

End at: 2018-04-17 06:59:57

Local clock offset: -1.754 ms

Remote clock offset: -0.019 ms

Below is generated by plot.py at 2018-04-17 08:58:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.76 Mbit/s

95th percentile per-packet one-way delay: 203.111 ms

Loss rate: 2.65%

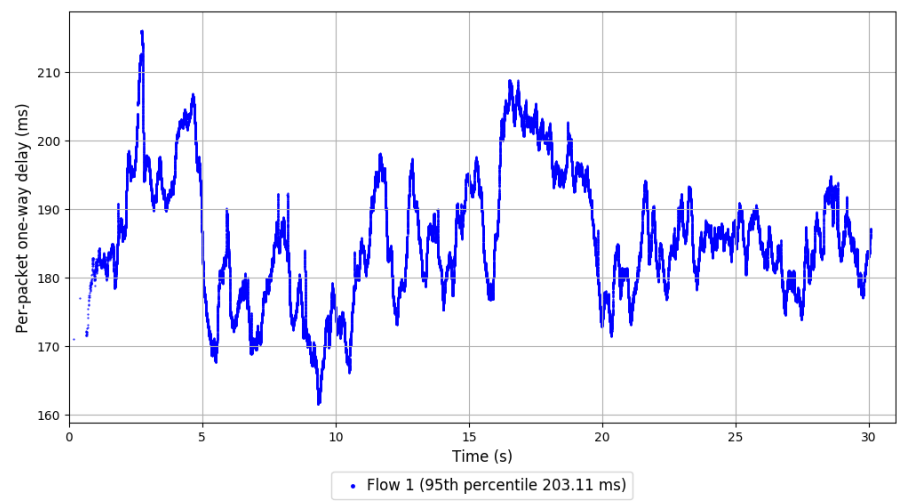
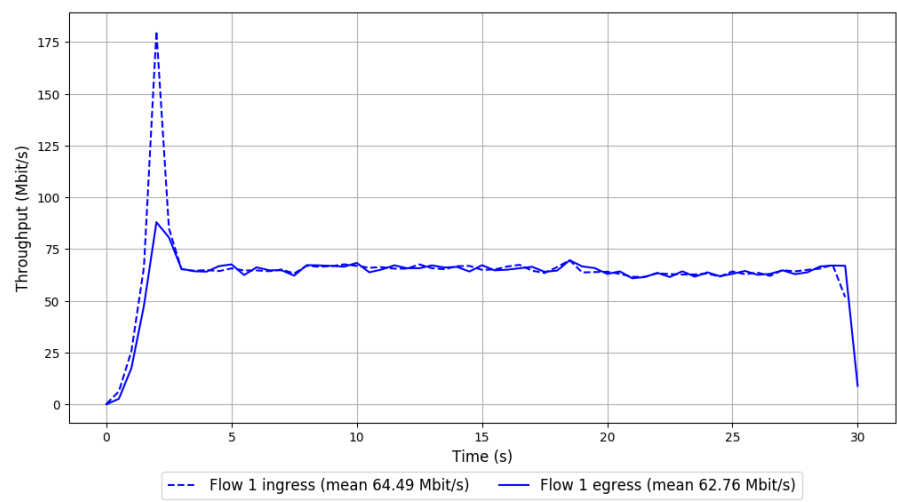
-- Flow 1:

Average throughput: 62.76 Mbit/s

95th percentile per-packet one-way delay: 203.111 ms

Loss rate: 2.65%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

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

End at: 2018-04-17 07:21:51

Local clock offset: 5.555 ms

Remote clock offset: 1.552 ms

Below is generated by plot.py at 2018-04-17 08:58:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.69 Mbit/s

95th percentile per-packet one-way delay: 164.333 ms

Loss rate: 1.81%

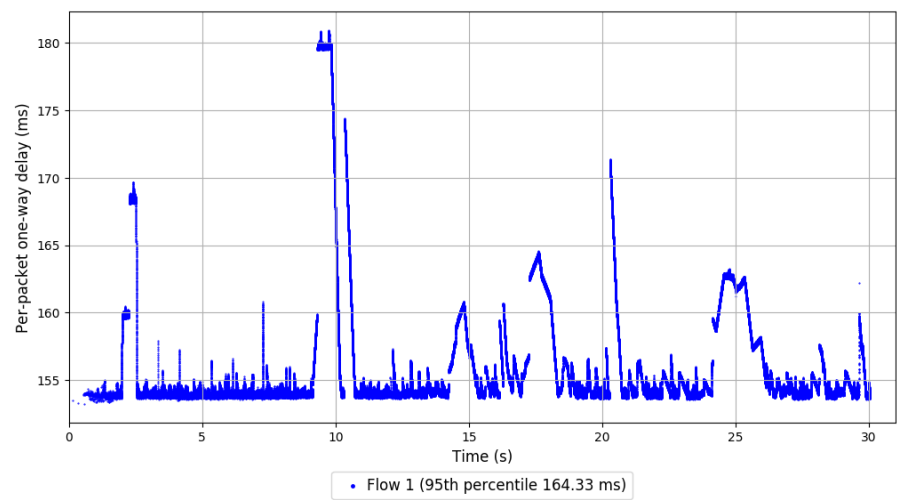
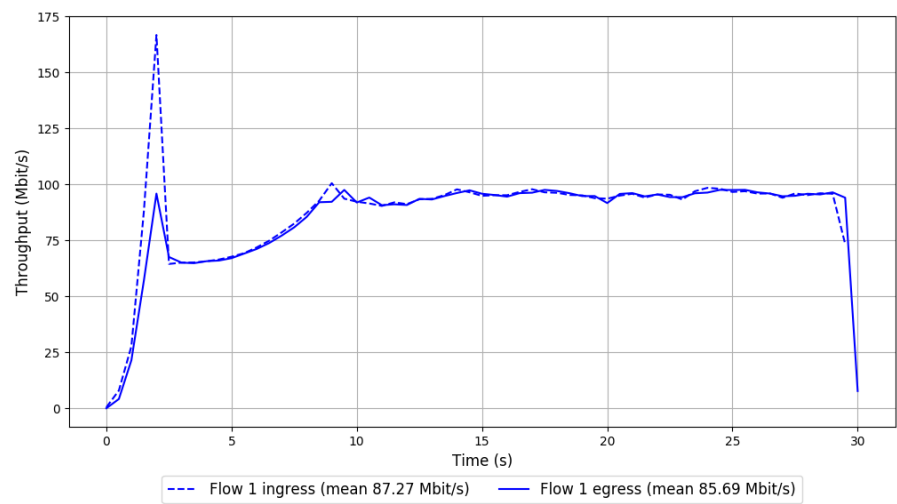
-- Flow 1:

Average throughput: 85.69 Mbit/s

95th percentile per-packet one-way delay: 164.333 ms

Loss rate: 1.81%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-04-17 07:43:14

End at: 2018-04-17 07:43:44

Local clock offset: 7.133 ms

Remote clock offset: 6.068 ms

Below is generated by plot.py at 2018-04-17 08:58:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.42 Mbit/s

95th percentile per-packet one-way delay: 154.962 ms

Loss rate: 1.77%

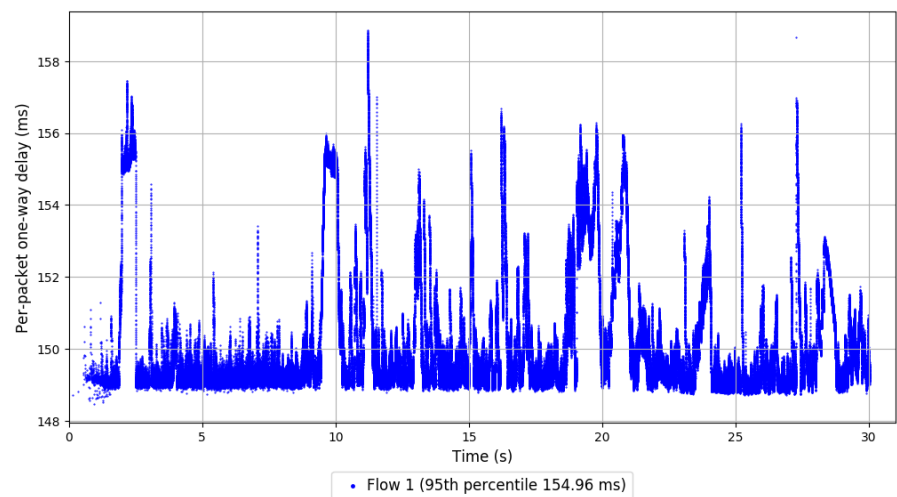
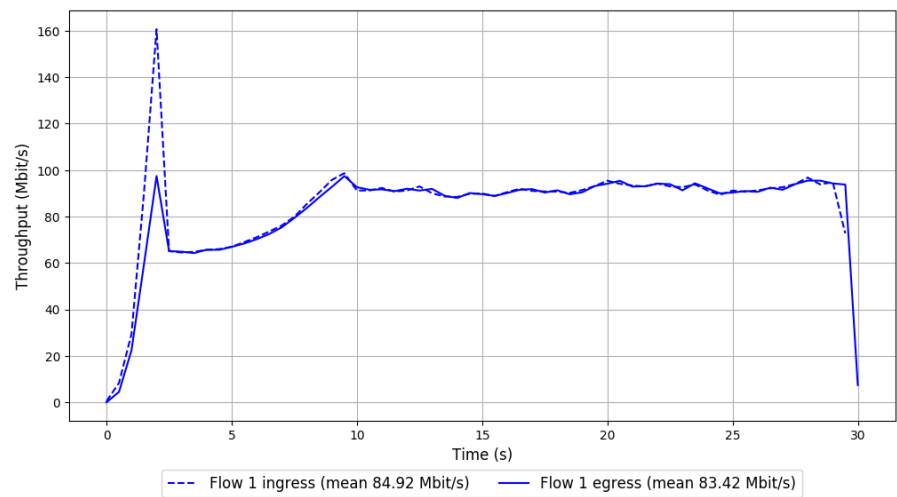
-- Flow 1:

Average throughput: 83.42 Mbit/s

95th percentile per-packet one-way delay: 154.962 ms

Loss rate: 1.77%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-04-17 08:05:46

End at: 2018-04-17 08:06:16

Local clock offset: 6.414 ms

Remote clock offset: 16.344 ms

Below is generated by plot.py at 2018-04-17 08:58:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.29 Mbit/s

95th percentile per-packet one-way delay: 174.260 ms

Loss rate: 2.43%

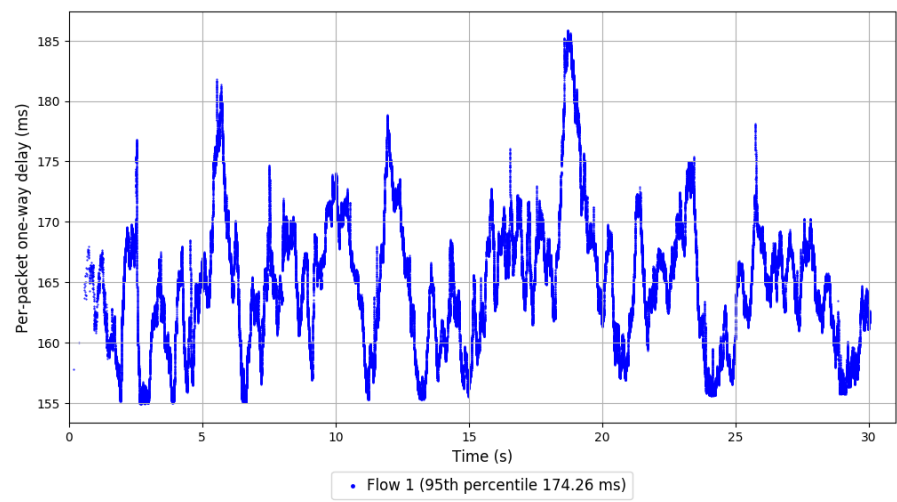
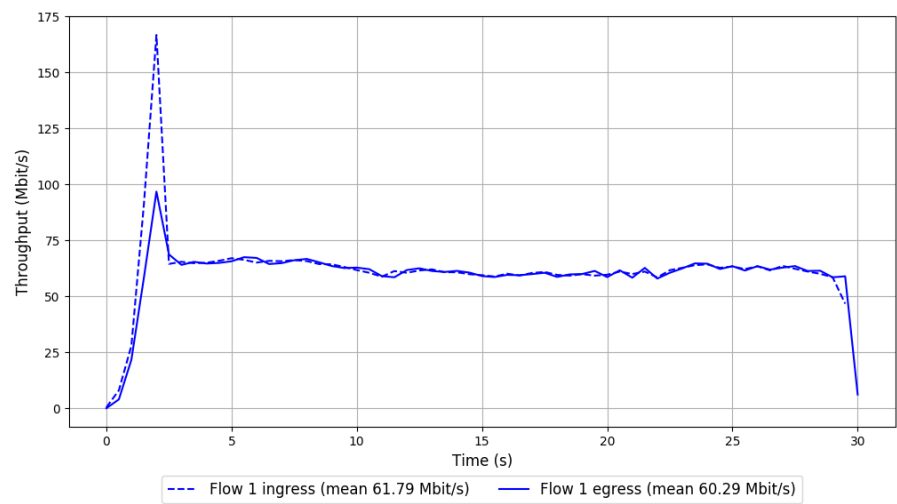
-- Flow 1:

Average throughput: 60.29 Mbit/s

95th percentile per-packet one-way delay: 174.260 ms

Loss rate: 2.43%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-04-17 08:26:57

End at: 2018-04-17 08:27:27

Local clock offset: 1.415 ms

Remote clock offset: 1.374 ms

Below is generated by plot.py at 2018-04-17 08:58:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.06 Mbit/s

95th percentile per-packet one-way delay: 155.479 ms

Loss rate: 2.20%

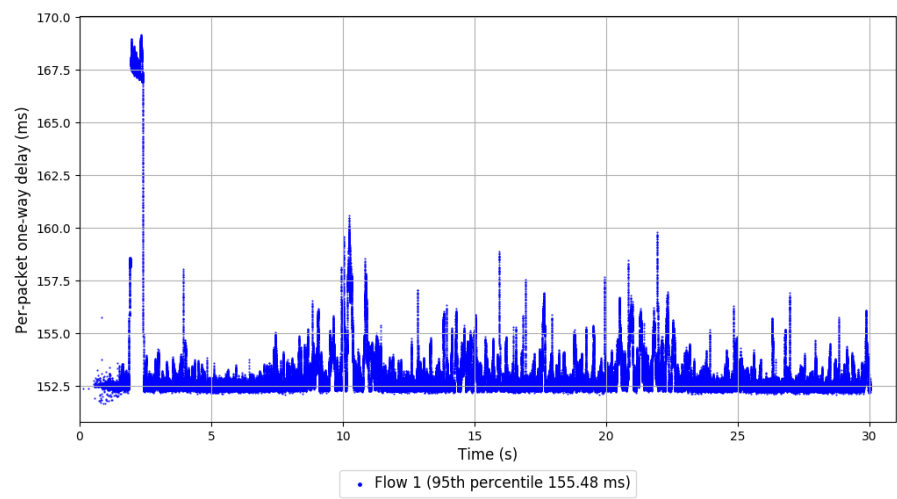
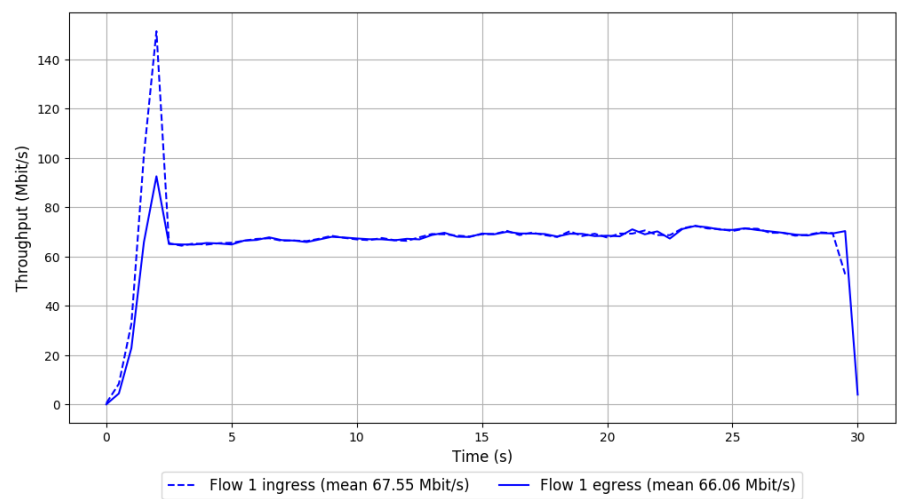
-- Flow 1:

Average throughput: 66.06 Mbit/s

95th percentile per-packet one-way delay: 155.479 ms

Loss rate: 2.20%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of QUIC Cubic

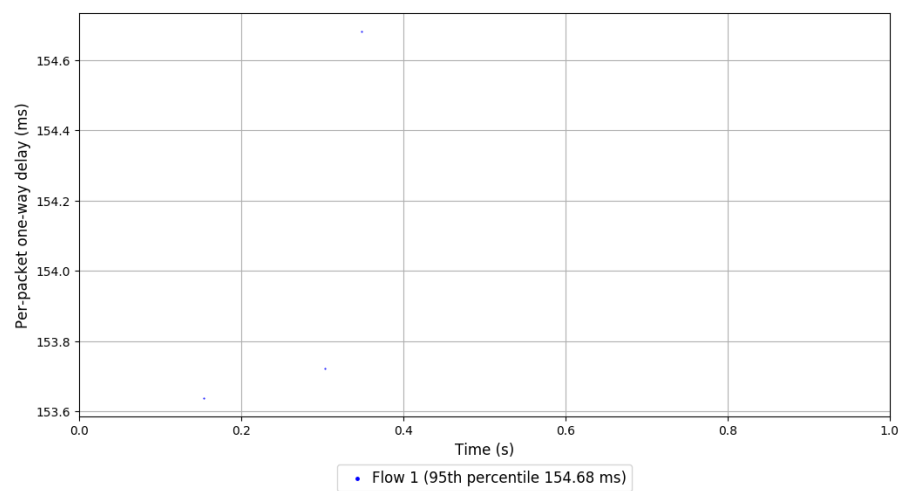
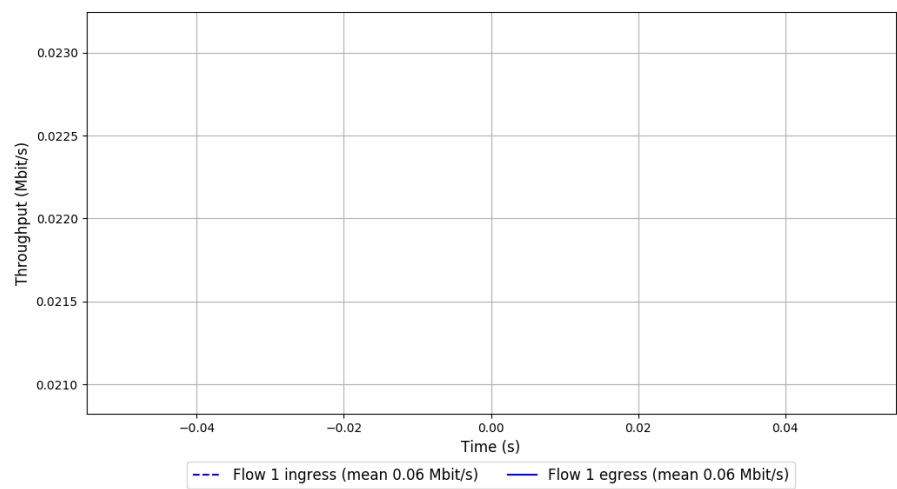
Start at: 2018-04-17 05:15:06

End at: 2018-04-17 05:15:36

Local clock offset: 3.587 ms

Remote clock offset: -12.356 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-17 05:36:15

End at: 2018-04-17 05:36:45

Local clock offset: 9.469 ms

Remote clock offset: 6.614 ms

Below is generated by plot.py at 2018-04-17 08:59:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.42 Mbit/s

95th percentile per-packet one-way delay: 165.355 ms

Loss rate: 0.07%

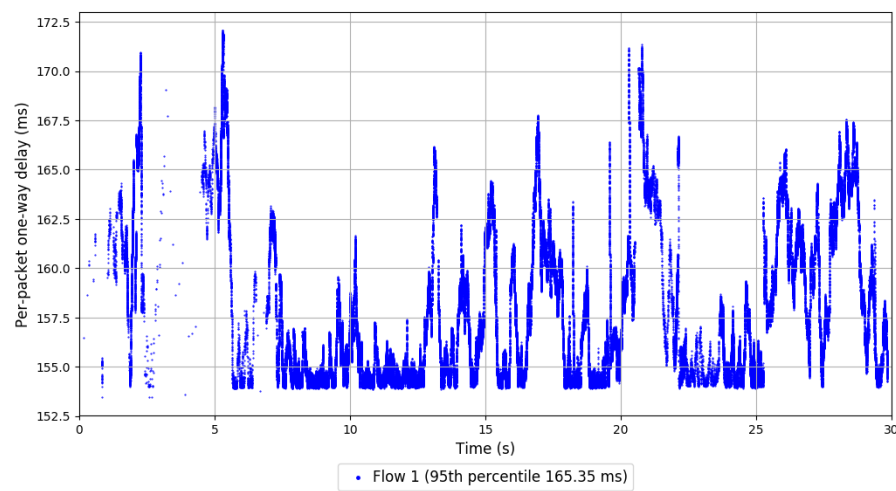
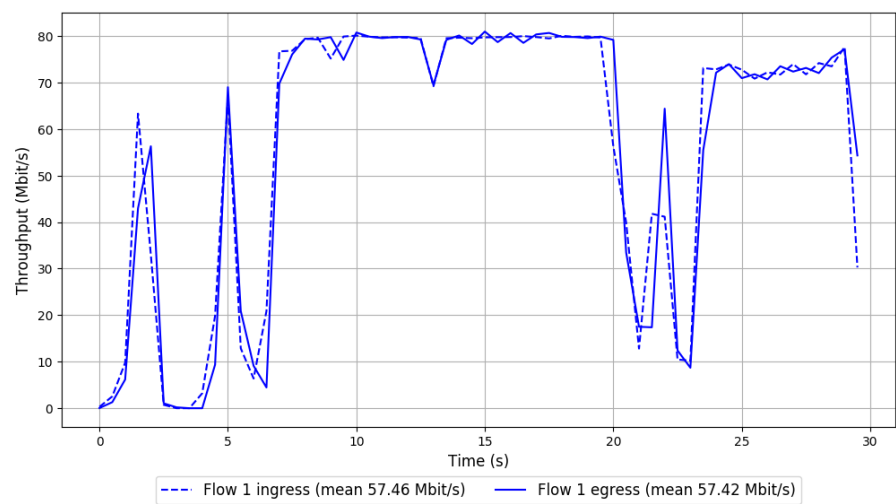
-- Flow 1:

Average throughput: 57.42 Mbit/s

95th percentile per-packet one-way delay: 165.355 ms

Loss rate: 0.07%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-17 05:57:32

End at: 2018-04-17 05:58:02

Local clock offset: 13.847 ms

Remote clock offset: 1.04 ms

Below is generated by plot.py at 2018-04-17 08:59:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.59 Mbit/s

95th percentile per-packet one-way delay: 159.730 ms

Loss rate: 0.30%

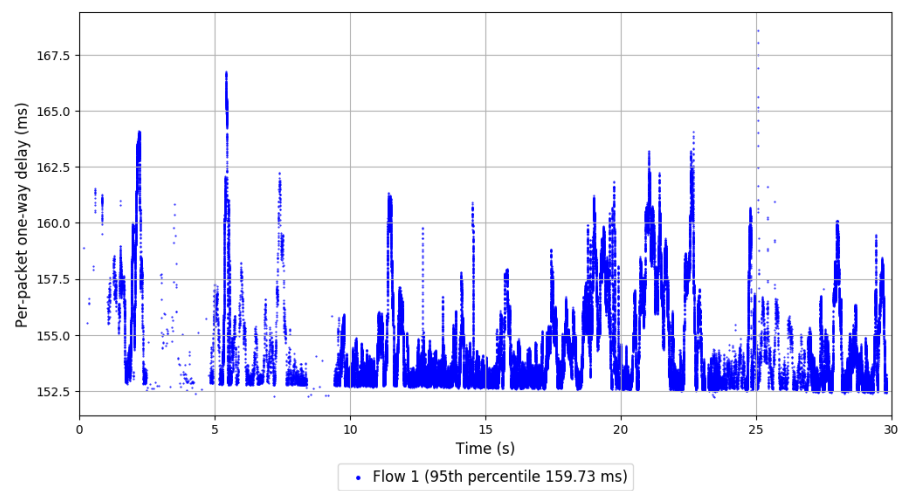
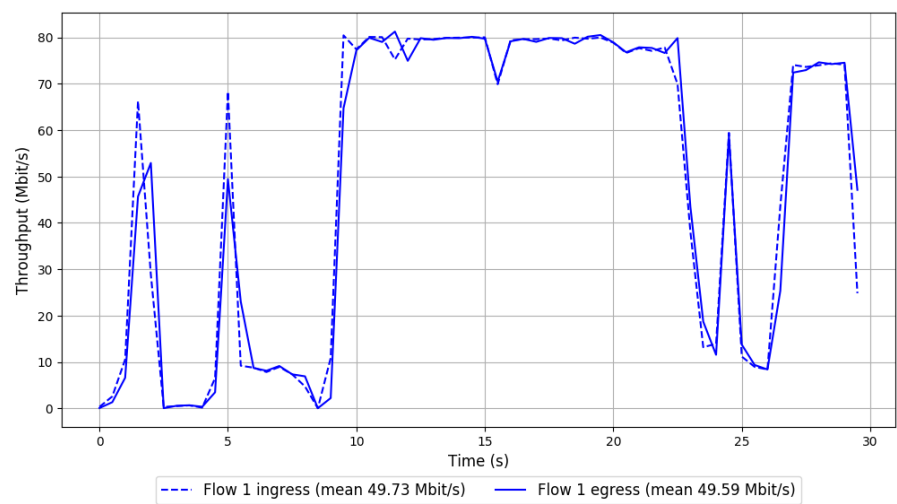
-- Flow 1:

Average throughput: 49.59 Mbit/s

95th percentile per-packet one-way delay: 159.730 ms

Loss rate: 0.30%

Run 3: Report of QUIC Cubic — Data Link

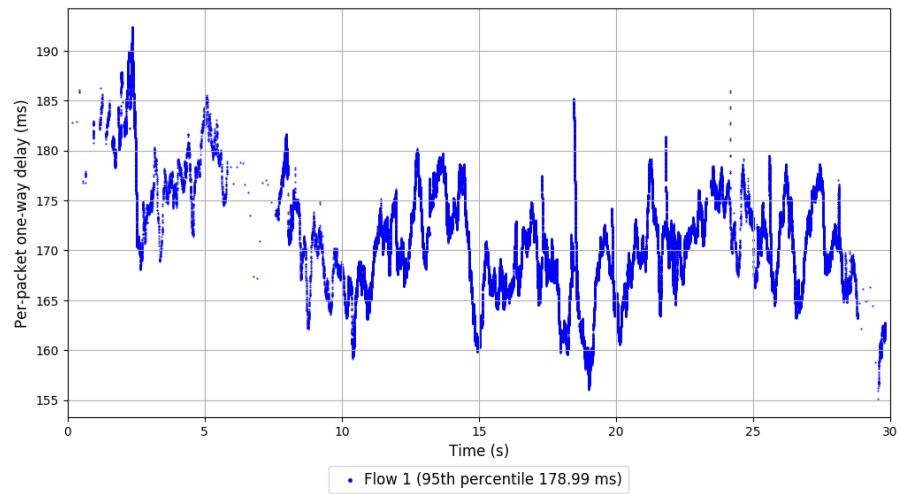
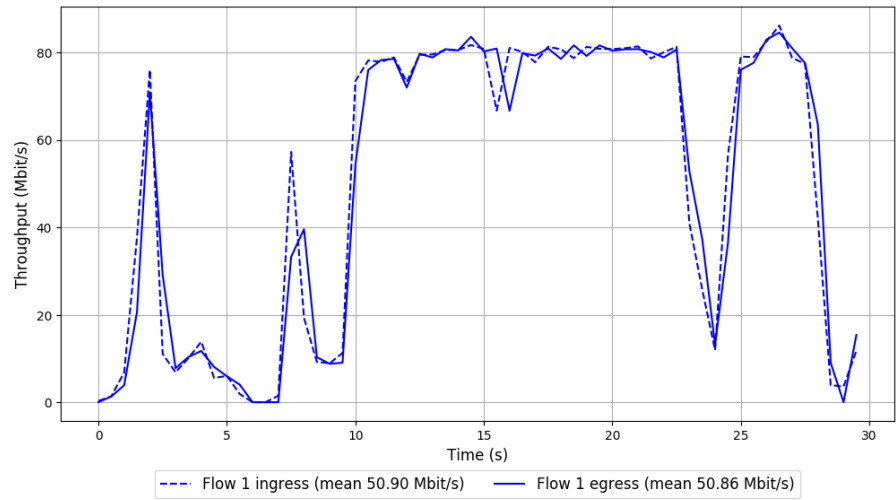


Run 4: Statistics of QUIC Cubic

Start at: 2018-04-17 06:18:44
End at: 2018-04-17 06:19:14
Local clock offset: 8.467 ms
Remote clock offset: -12.294 ms

Below is generated by plot.py at 2018-04-17 08:59:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.86 Mbit/s
95th percentile per-packet one-way delay: 178.992 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 50.86 Mbit/s
95th percentile per-packet one-way delay: 178.992 ms
Loss rate: 0.17%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-17 06:45:31

End at: 2018-04-17 06:46:01

Local clock offset: 1.148 ms

Remote clock offset: 1.065 ms

Below is generated by plot.py at 2018-04-17 08:59:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.73 Mbit/s

95th percentile per-packet one-way delay: 175.132 ms

Loss rate: 0.47%

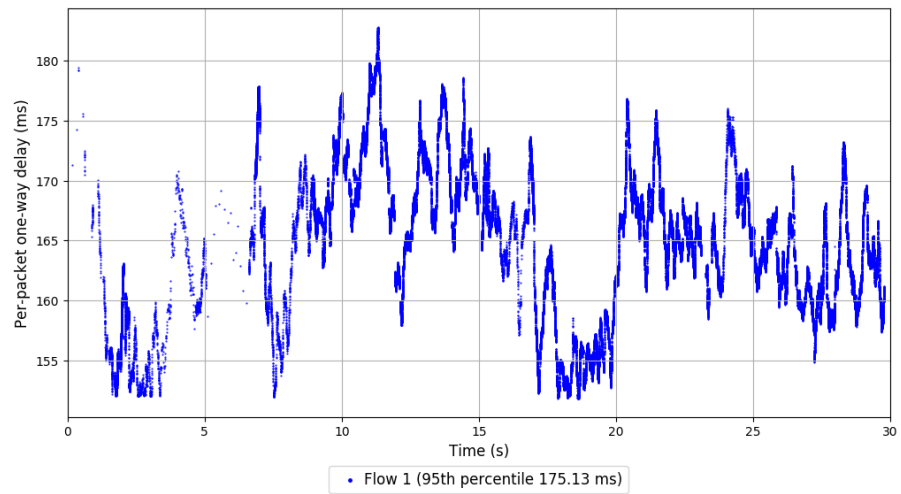
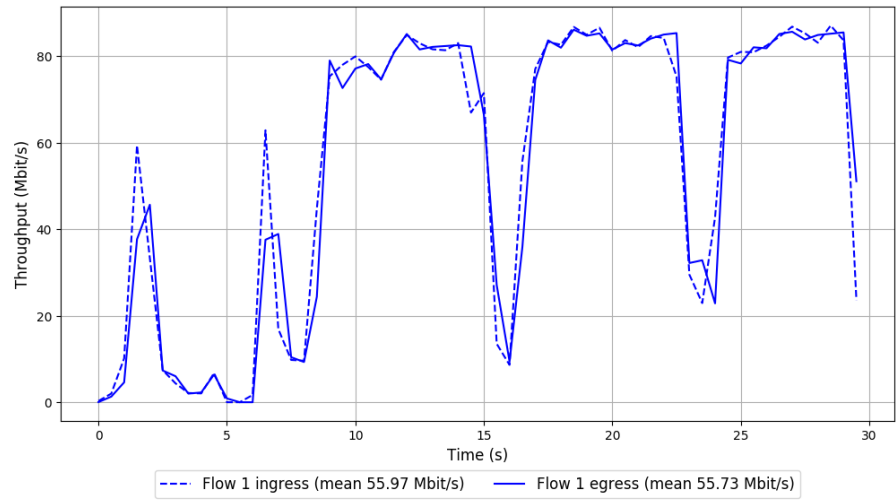
-- Flow 1:

Average throughput: 55.73 Mbit/s

95th percentile per-packet one-way delay: 175.132 ms

Loss rate: 0.47%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

/home/ubuntu/pantheon_data/2018-04-17T04-55-AWS-Korea-to-China-10-runs/quic_stats_run6.log c

Run 6: Report of QUIC Cubic — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of QUIC Cubic

Start at: 2018-04-17 07:28:48

End at: 2018-04-17 07:29:18

Local clock offset: 6.629 ms

Remote clock offset: 5.82 ms

Below is generated by plot.py at 2018-04-17 08:59:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.31 Mbit/s

95th percentile per-packet one-way delay: 157.044 ms

Loss rate: 0.10%

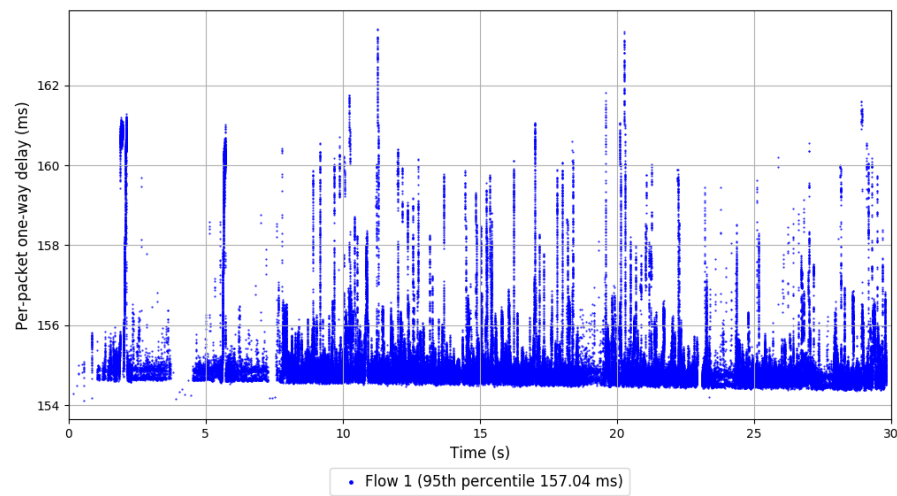
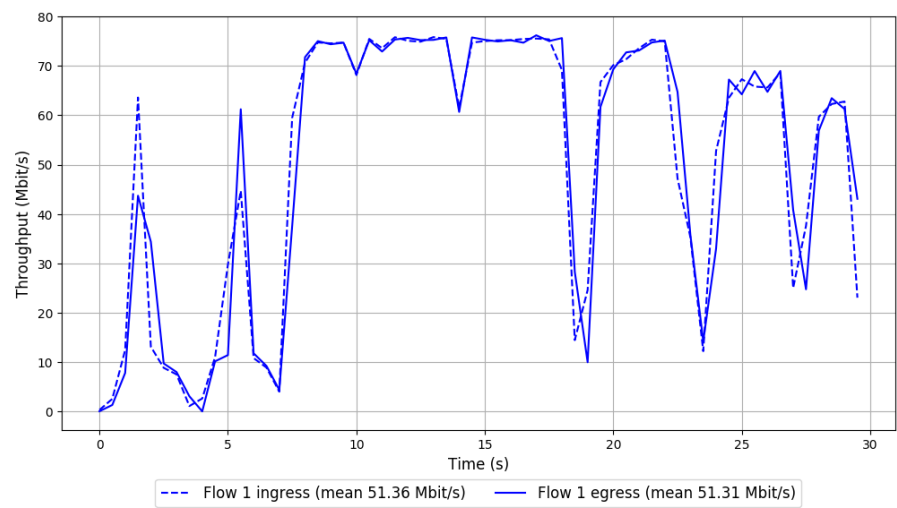
-- Flow 1:

Average throughput: 51.31 Mbit/s

95th percentile per-packet one-way delay: 157.044 ms

Loss rate: 0.10%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-17 07:50:44

End at: 2018-04-17 07:51:14

Local clock offset: 6.839 ms

Remote clock offset: 12.656 ms

Below is generated by plot.py at 2018-04-17 08:59:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.08 Mbit/s

95th percentile per-packet one-way delay: 173.104 ms

Loss rate: 0.57%

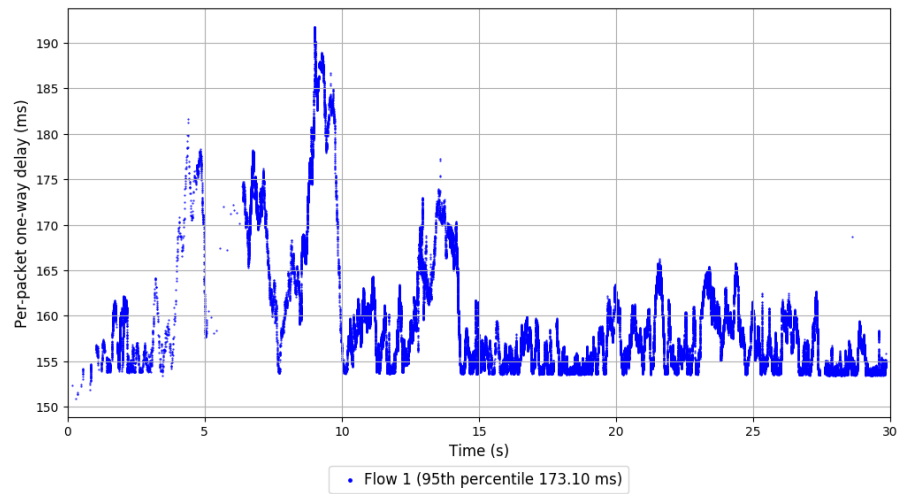
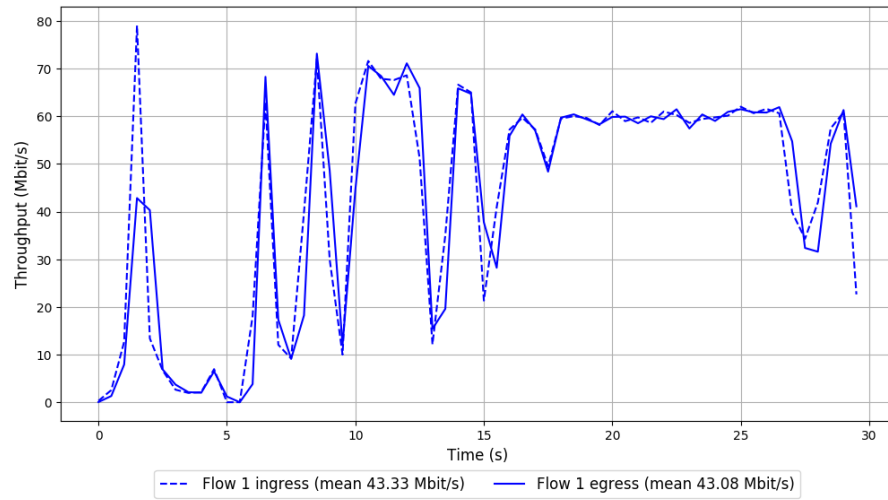
-- Flow 1:

Average throughput: 43.08 Mbit/s

95th percentile per-packet one-way delay: 173.104 ms

Loss rate: 0.57%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-17 08:13:08

End at: 2018-04-17 08:13:39

Local clock offset: 6.397 ms

Remote clock offset: 6.967 ms

Below is generated by plot.py at 2018-04-17 08:59:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.87 Mbit/s

95th percentile per-packet one-way delay: 175.555 ms

Loss rate: 0.06%

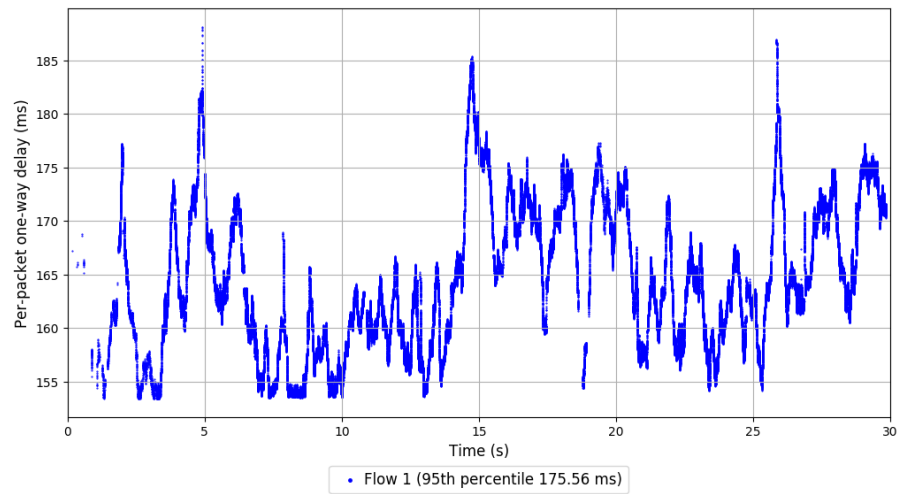
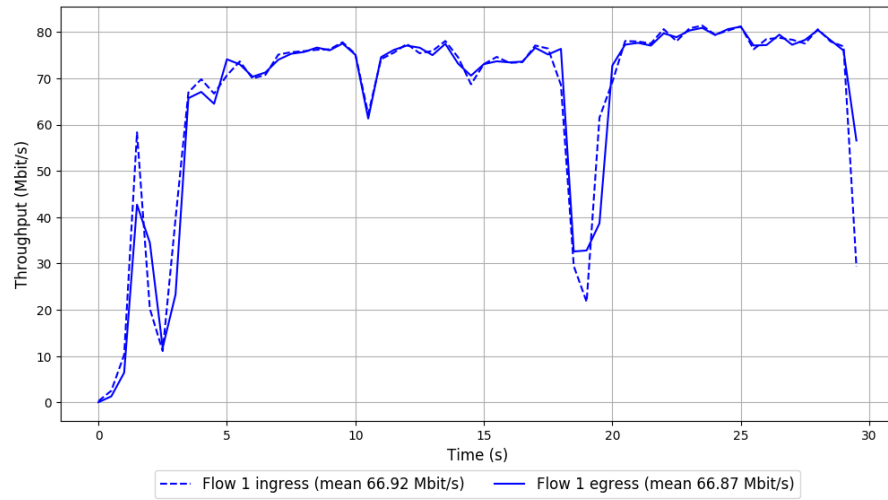
-- Flow 1:

Average throughput: 66.87 Mbit/s

95th percentile per-packet one-way delay: 175.555 ms

Loss rate: 0.06%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-04-17 08:34:02

End at: 2018-04-17 08:34:32

Local clock offset: 0.223 ms

Remote clock offset: 0.953 ms

Below is generated by plot.py at 2018-04-17 08:59:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.57 Mbit/s

95th percentile per-packet one-way delay: 156.004 ms

Loss rate: 1.09%

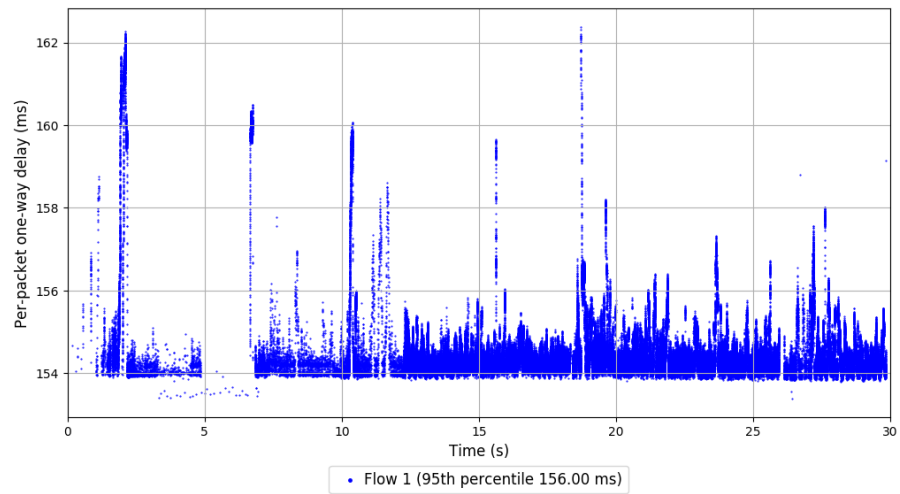
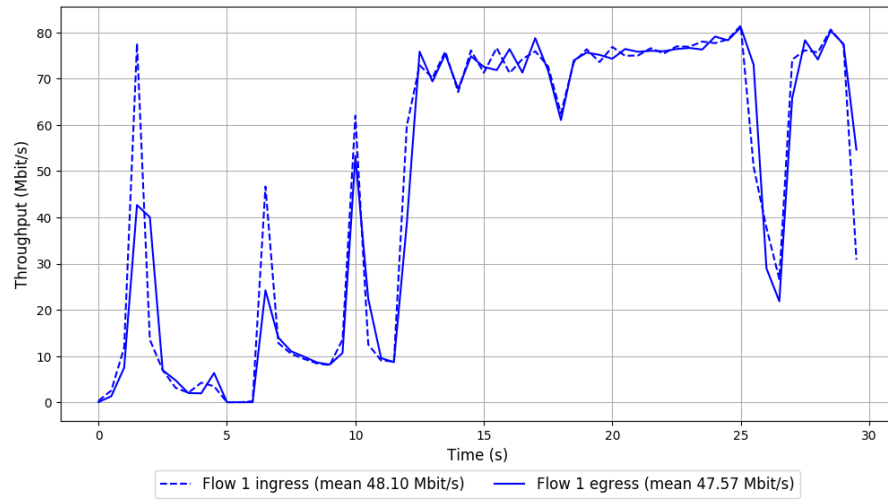
-- Flow 1:

Average throughput: 47.57 Mbit/s

95th percentile per-packet one-way delay: 156.004 ms

Loss rate: 1.09%

Run 10: Report of QUIC Cubic — Data Link

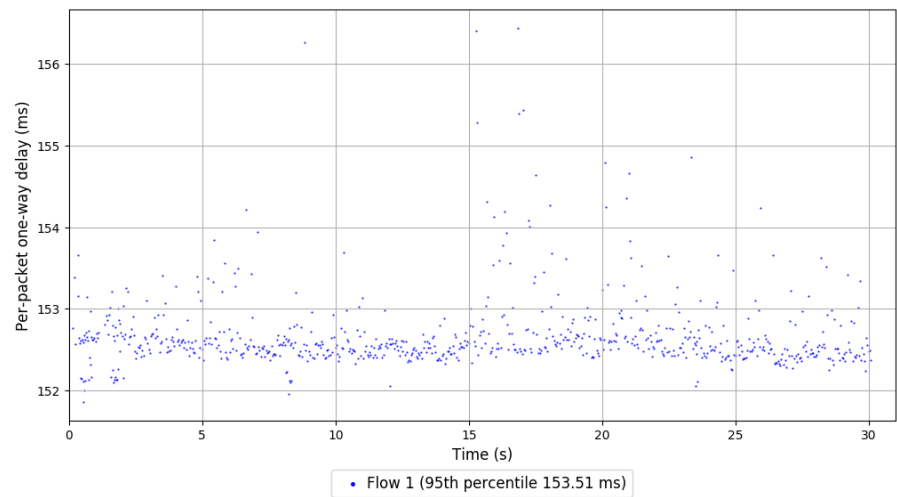
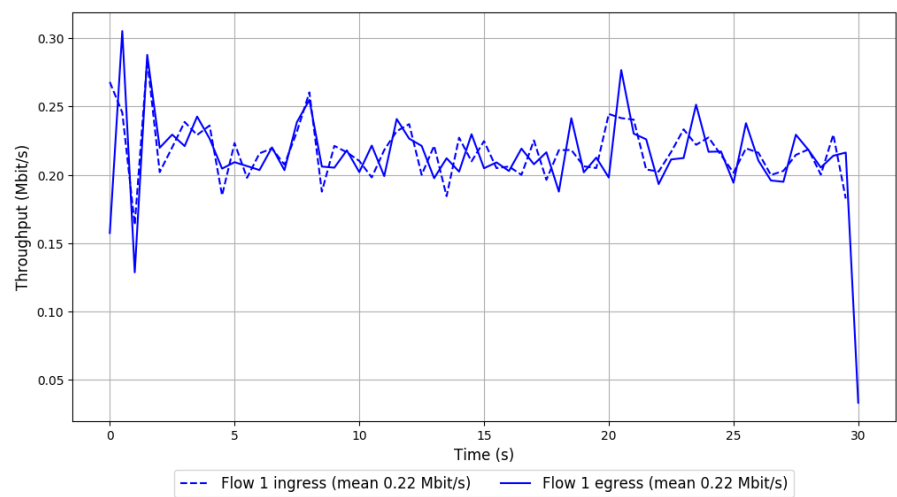


Run 1: Statistics of SCReAM

Start at: 2018-04-17 05:02:41
End at: 2018-04-17 05:03:11
Local clock offset: 5.648 ms
Remote clock offset: -13.821 ms

Below is generated by plot.py at 2018-04-17 08:59:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 153.514 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 153.514 ms
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

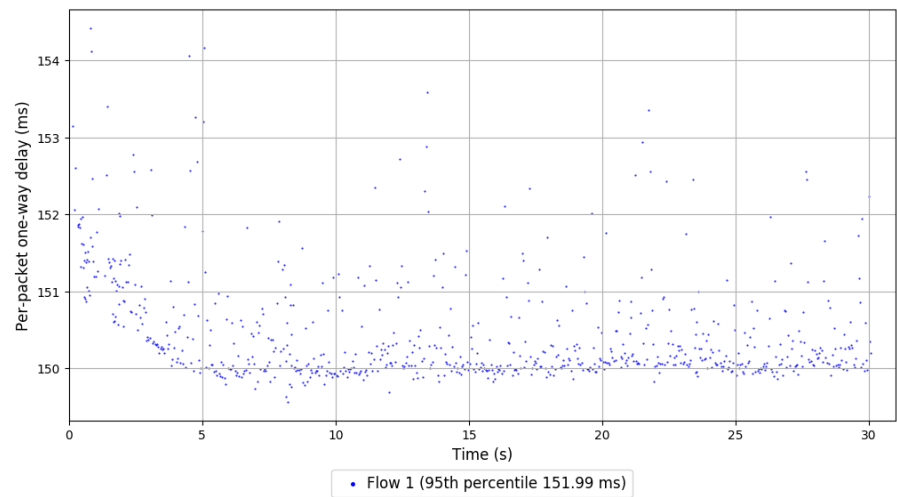
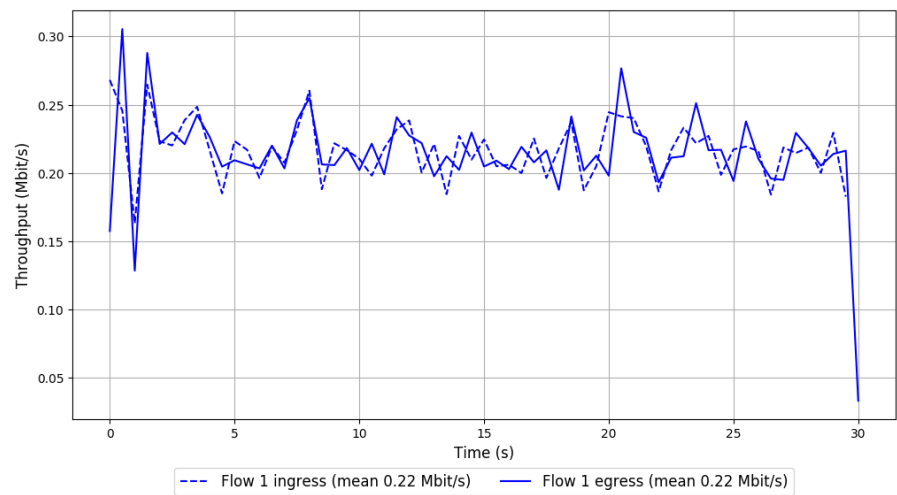


Run 2: Statistics of SCReAM

Start at: 2018-04-17 05:23:51
End at: 2018-04-17 05:24:21
Local clock offset: 2.87 ms
Remote clock offset: -2.715 ms

Below is generated by plot.py at 2018-04-17 08:59:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 151.985 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 151.985 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

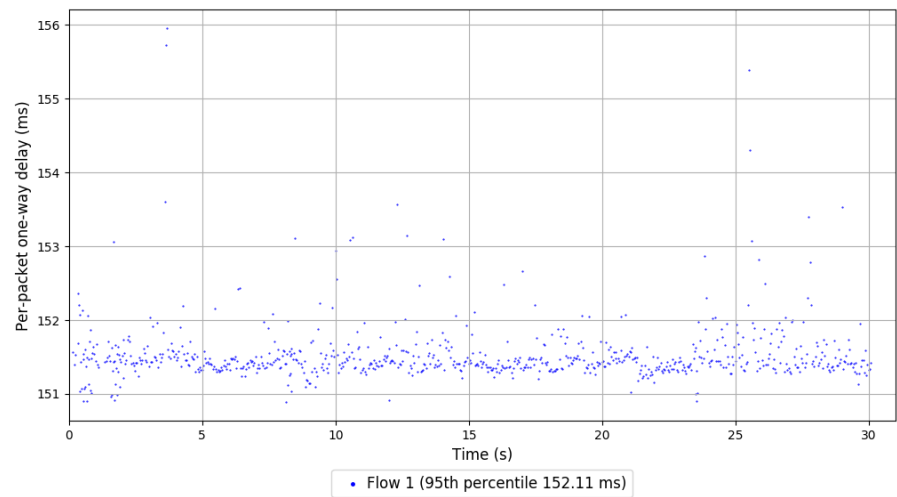
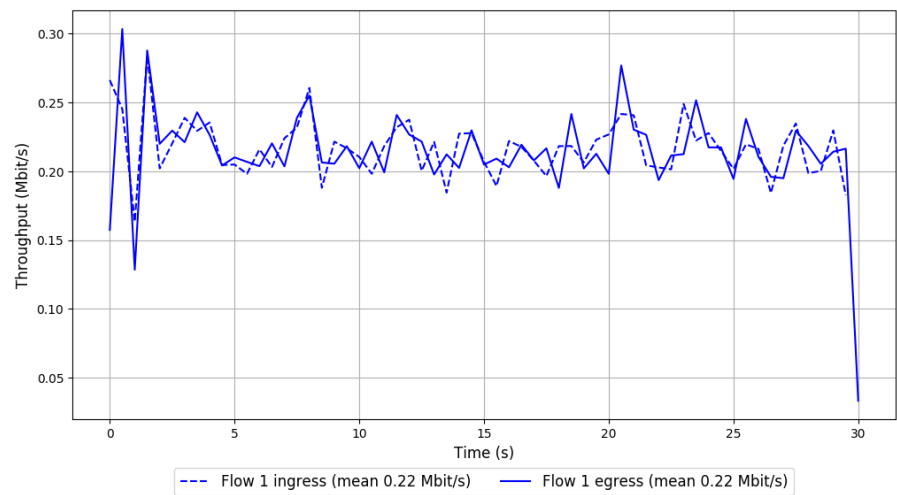


Run 3: Statistics of SCReAM

Start at: 2018-04-17 05:45:05
End at: 2018-04-17 05:45:35
Local clock offset: 11.615 ms
Remote clock offset: -14.751 ms

Below is generated by plot.py at 2018-04-17 08:59:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.107 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.107 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

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

End at: 2018-04-17 06:06:47

Local clock offset: 10.114 ms

Remote clock offset: 5.816 ms

Below is generated by plot.py at 2018-04-17 08:59:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 178.493 ms

Loss rate: 0.00%

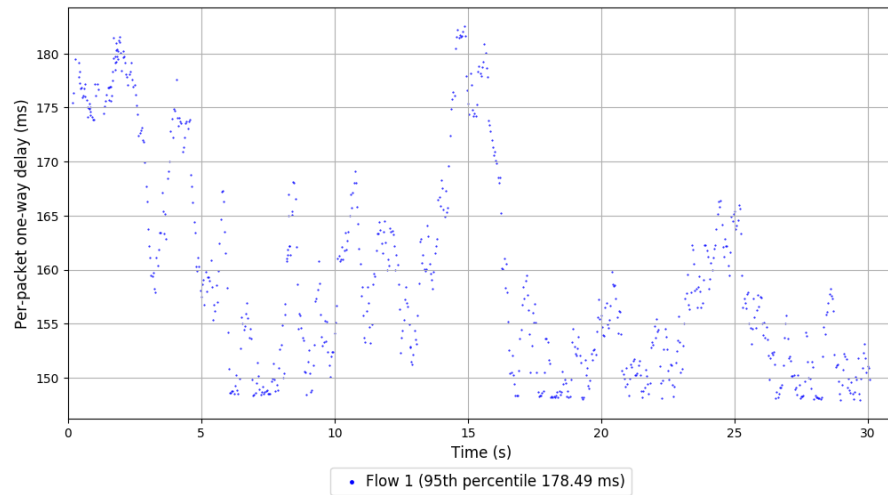
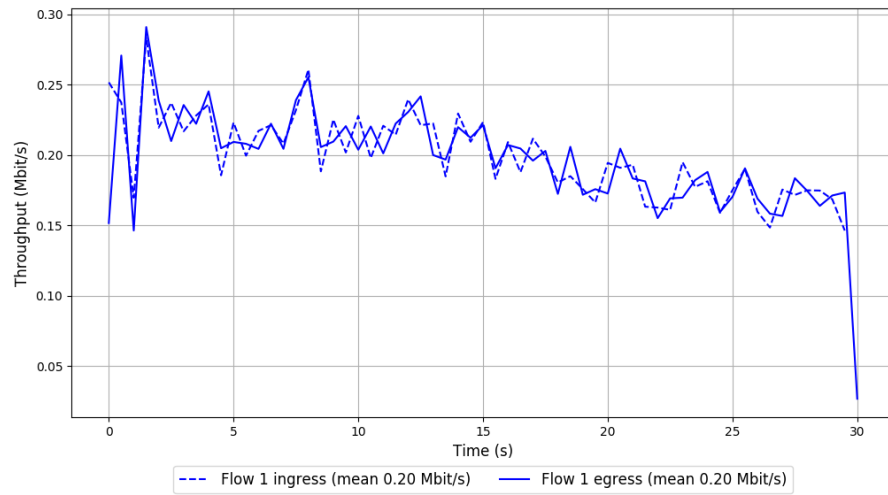
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 178.493 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

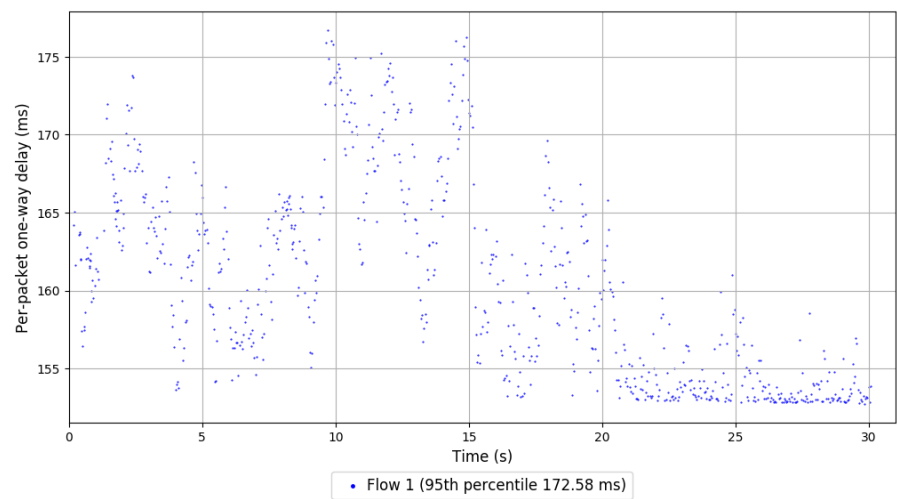
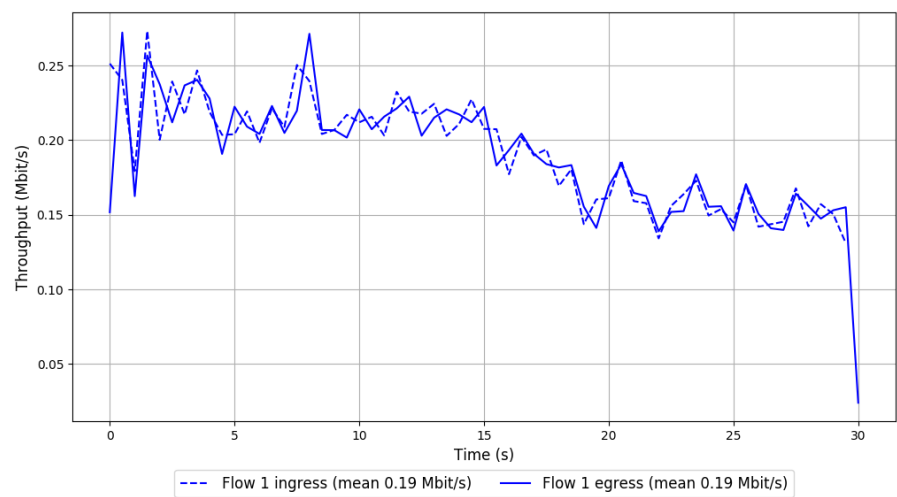


Run 5: Statistics of SCReAM

Start at: 2018-04-17 06:27:30
End at: 2018-04-17 06:28:00
Local clock offset: 8.553 ms
Remote clock offset: -7.437 ms

Below is generated by plot.py at 2018-04-17 08:59:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 172.579 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 172.579 ms
Loss rate: 0.12%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-04-17 06:54:22

End at: 2018-04-17 06:54:52

Local clock offset: -0.984 ms

Remote clock offset: 7.843 ms

Below is generated by plot.py at 2018-04-17 08:59:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 154.952 ms

Loss rate: 0.00%

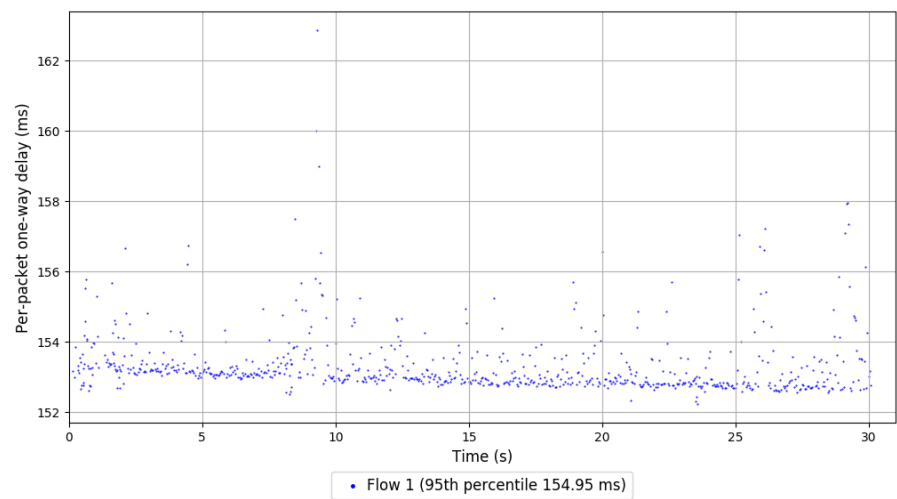
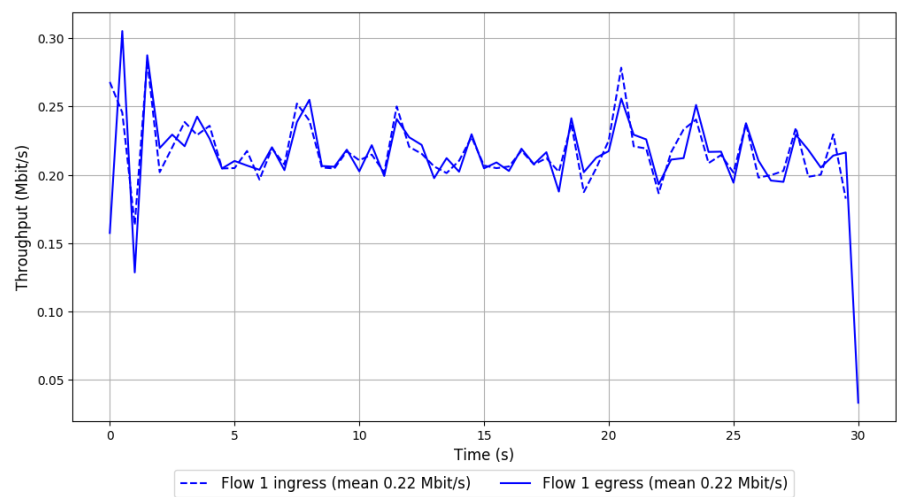
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 154.952 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

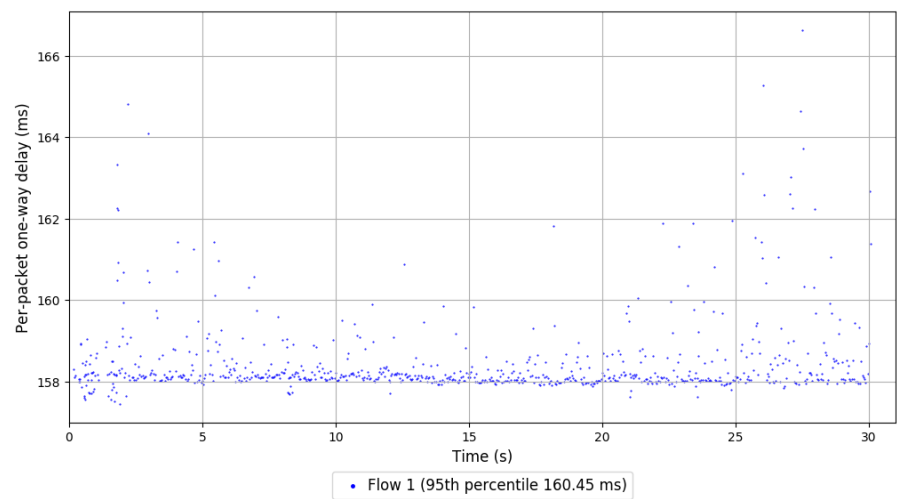
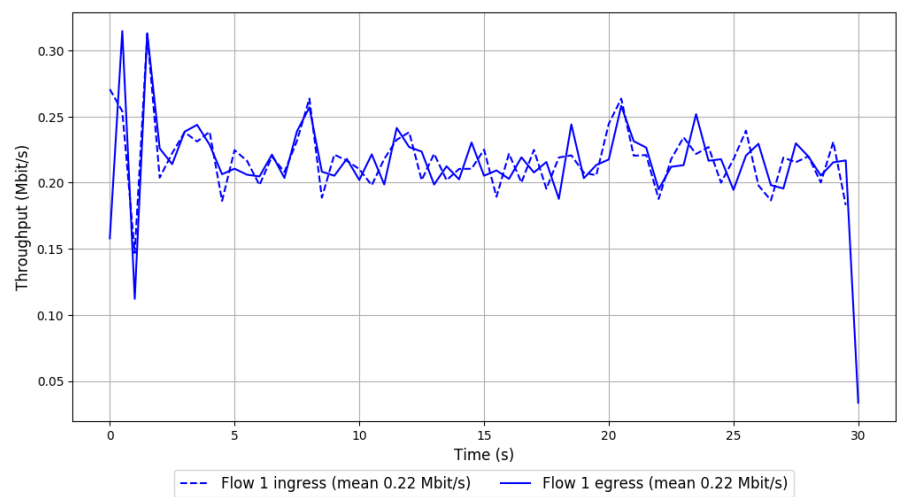


Run 7: Statistics of SCReAM

Start at: 2018-04-17 07:16:18
End at: 2018-04-17 07:16:48
Local clock offset: 4.077 ms
Remote clock offset: -1.139 ms

Below is generated by plot.py at 2018-04-17 08:59:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 160.451 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 160.451 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-04-17 07:38:03

End at: 2018-04-17 07:38:33

Local clock offset: 7.399 ms

Remote clock offset: 4.304 ms

Below is generated by plot.py at 2018-04-17 08:59:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 149.097 ms

Loss rate: 0.00%

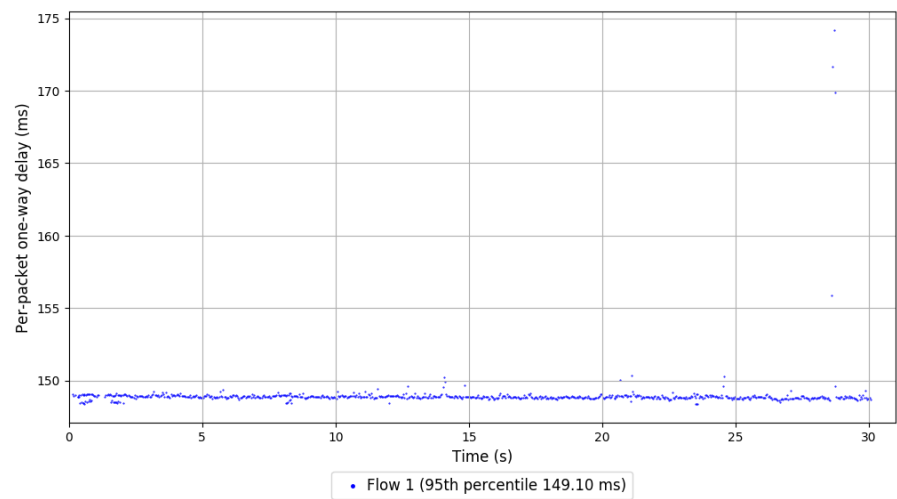
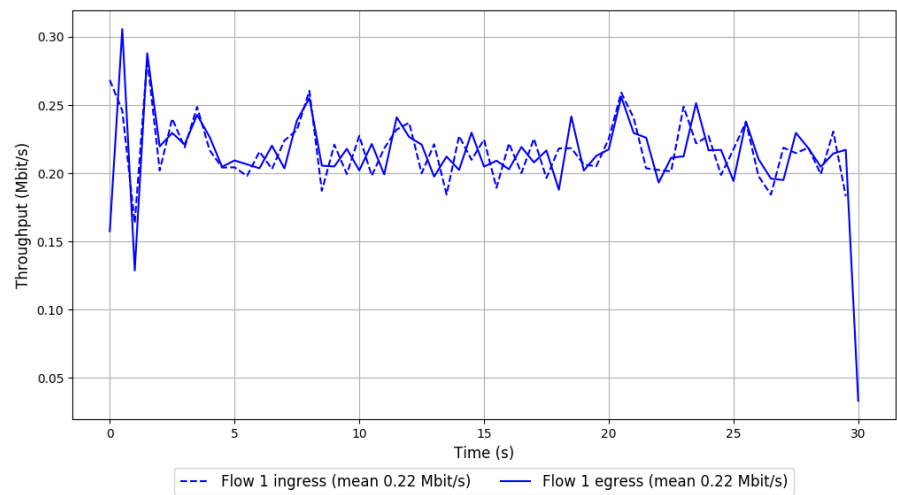
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 149.097 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

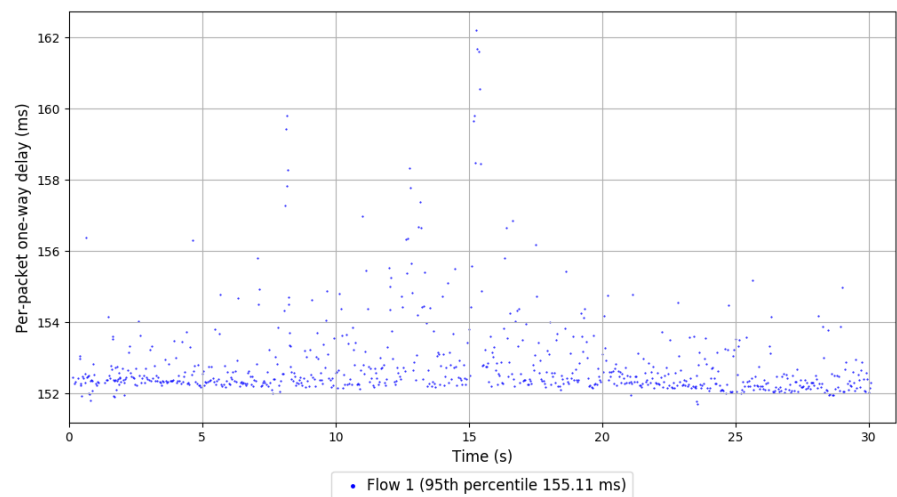
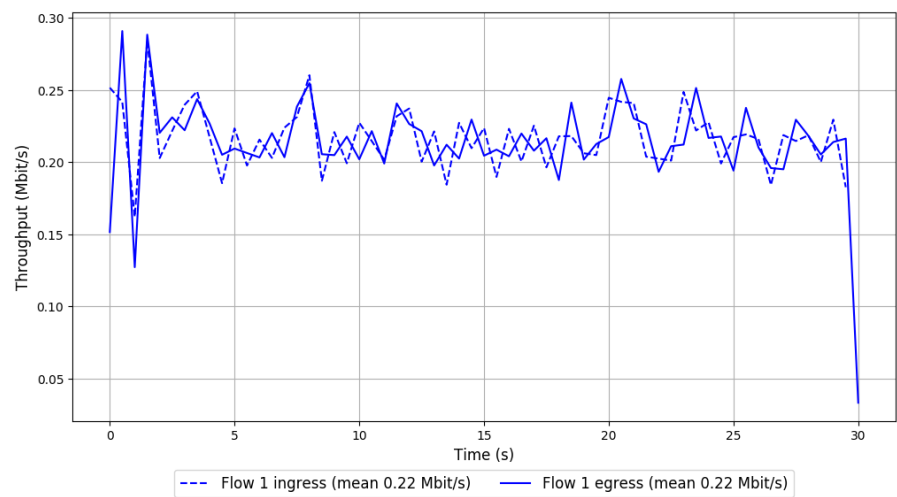


Run 9: Statistics of SCReAM

Start at: 2018-04-17 07:59:29
End at: 2018-04-17 07:59:59
Local clock offset: 6.53 ms
Remote clock offset: 17.821 ms

Below is generated by plot.py at 2018-04-17 08:59:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 155.114 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 155.114 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-04-17 08:21:55

End at: 2018-04-17 08:22:25

Local clock offset: 2.909 ms

Remote clock offset: 2.365 ms

Below is generated by plot.py at 2018-04-17 08:59:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 157.575 ms

Loss rate: 0.00%

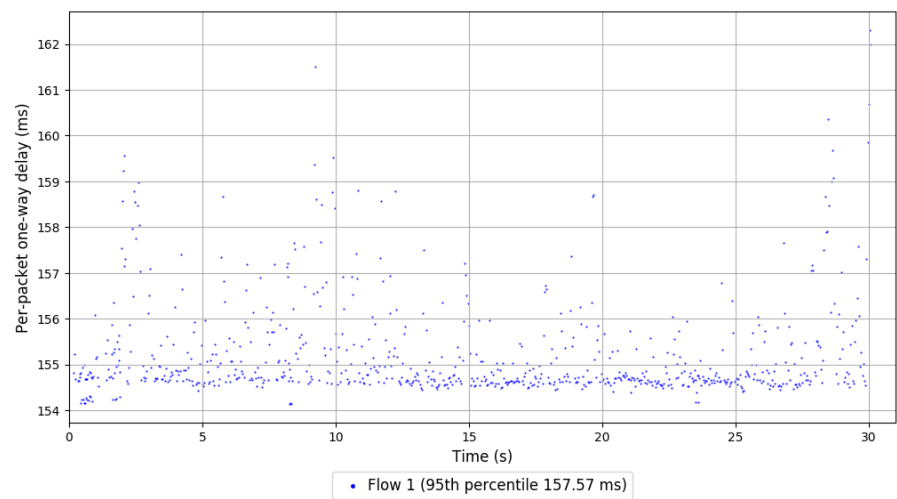
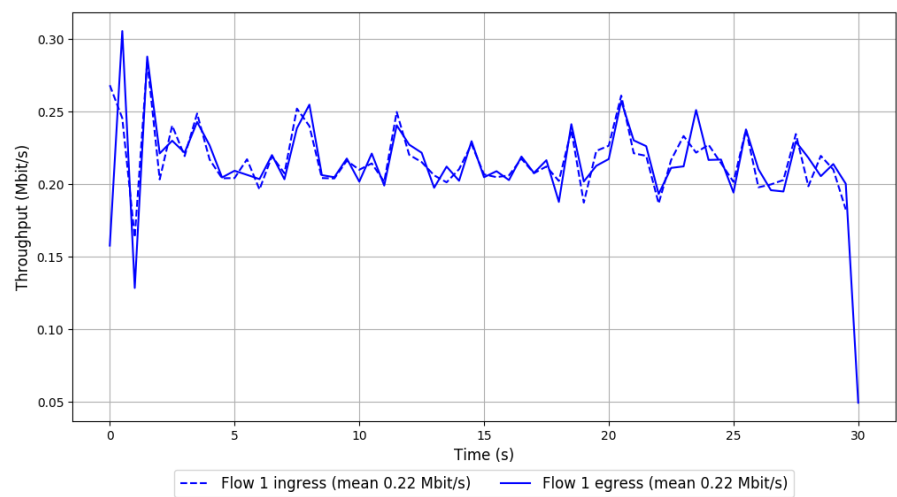
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 157.575 ms

Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link

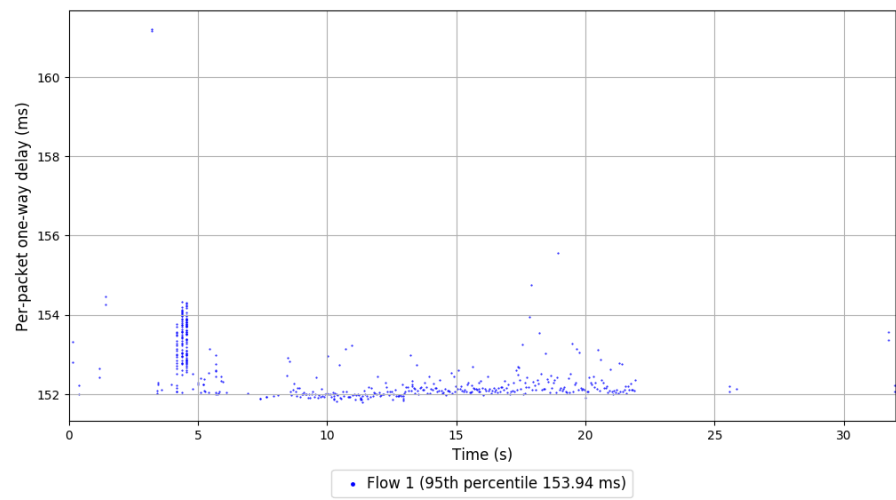
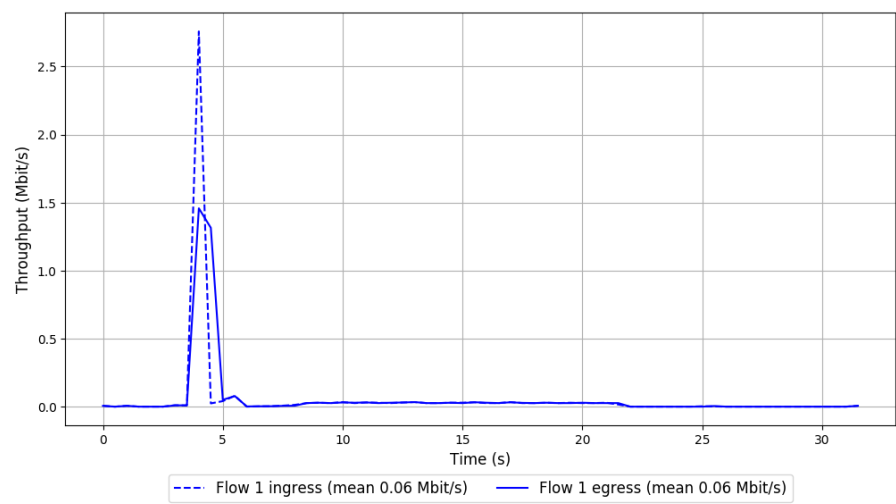


Run 1: Statistics of WebRTC media

Start at: 2018-04-17 05:12:38
End at: 2018-04-17 05:13:09
Local clock offset: 3.614 ms
Remote clock offset: -14.216 ms

Below is generated by plot.py at 2018-04-17 08:59:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 153.936 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 153.936 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-04-17 05:33:48

End at: 2018-04-17 05:34:18

Local clock offset: 8.518 ms

Remote clock offset: 5.816 ms

Below is generated by plot.py at 2018-04-17 08:59:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 160.203 ms

Loss rate: 0.00%

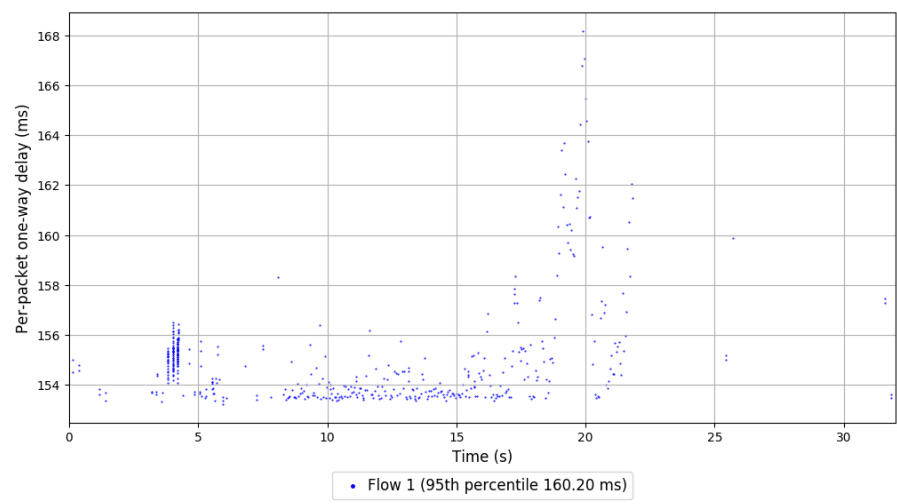
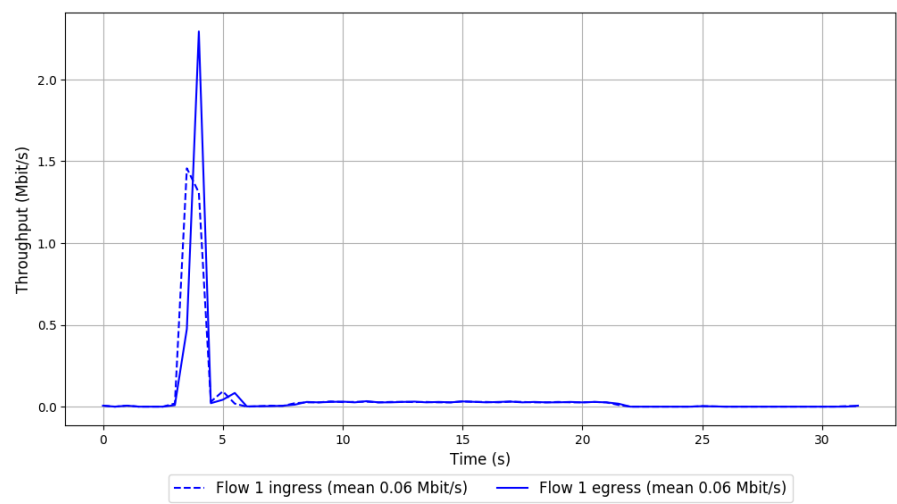
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 160.203 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-17 05:55:04

End at: 2018-04-17 05:55:34

Local clock offset: 13.29 ms

Remote clock offset: -1.726 ms

Below is generated by plot.py at 2018-04-17 08:59:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 169.685 ms

Loss rate: 0.00%

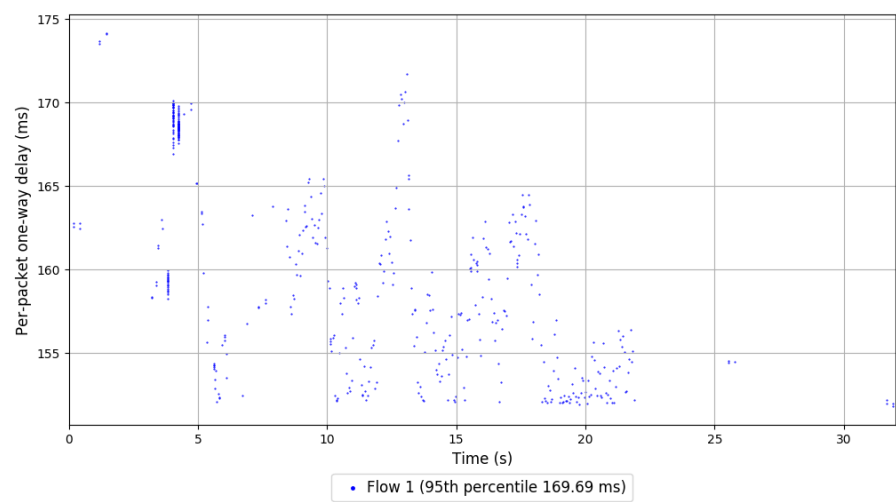
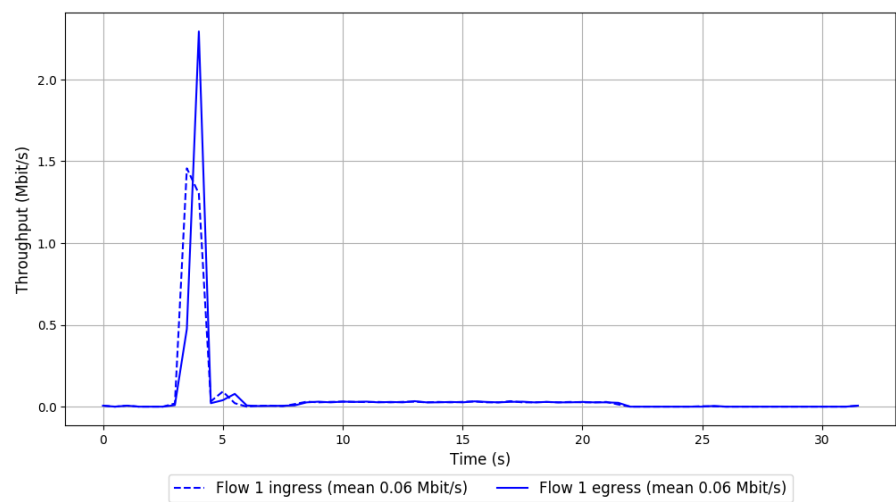
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 169.685 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

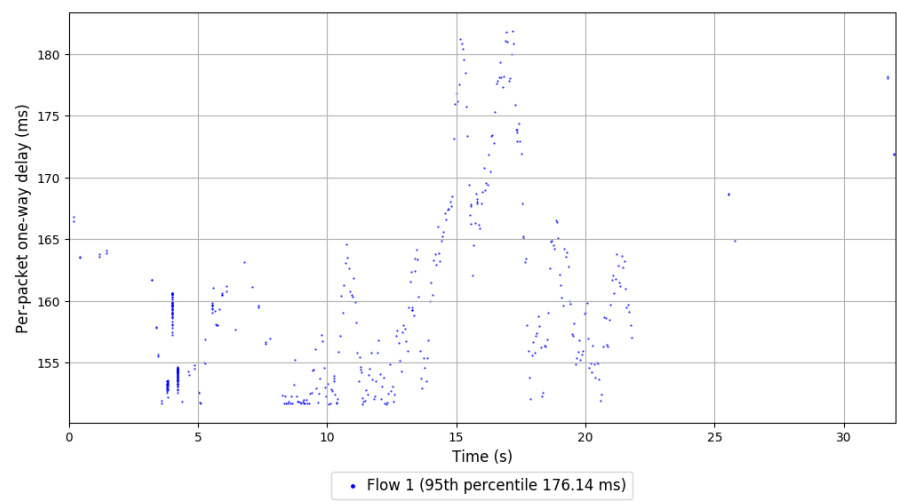
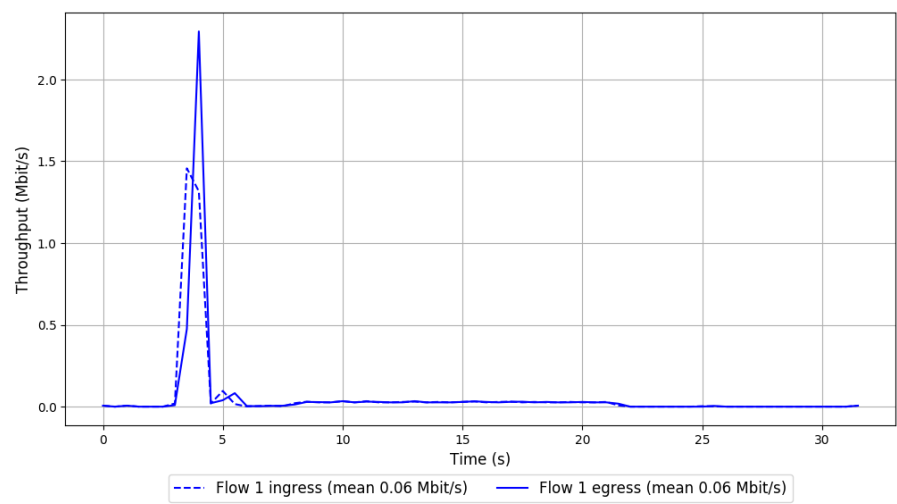


Run 4: Statistics of WebRTC media

Start at: 2018-04-17 06:16:16
End at: 2018-04-17 06:16:46
Local clock offset: 8.514 ms
Remote clock offset: -12.457 ms

Below is generated by plot.py at 2018-04-17 08:59:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 176.144 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 176.144 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

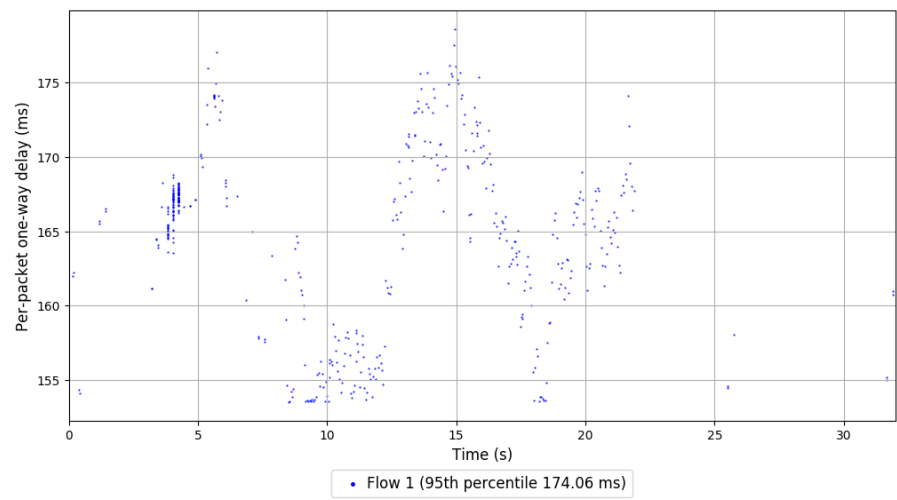
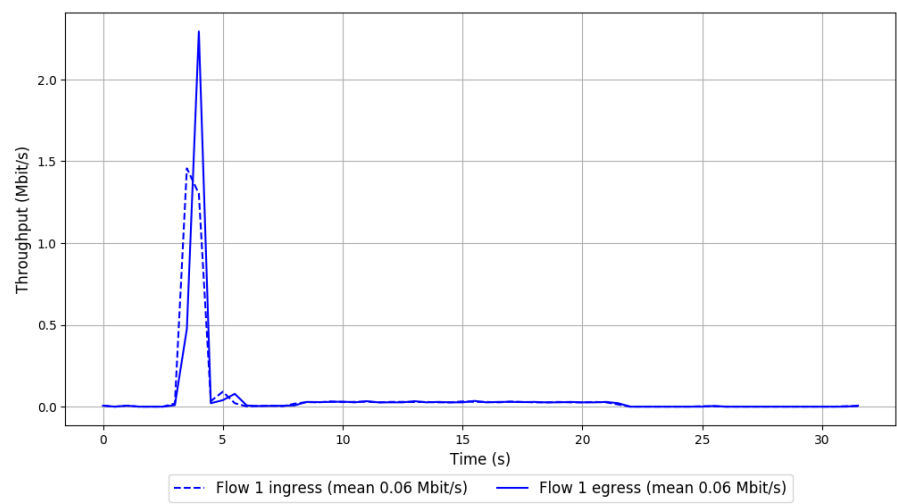


Run 5: Statistics of WebRTC media

Start at: 2018-04-17 06:42:58
End at: 2018-04-17 06:43:28
Local clock offset: 2.216 ms
Remote clock offset: -0.175 ms

Below is generated by plot.py at 2018-04-17 08:59:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 174.060 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 174.060 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

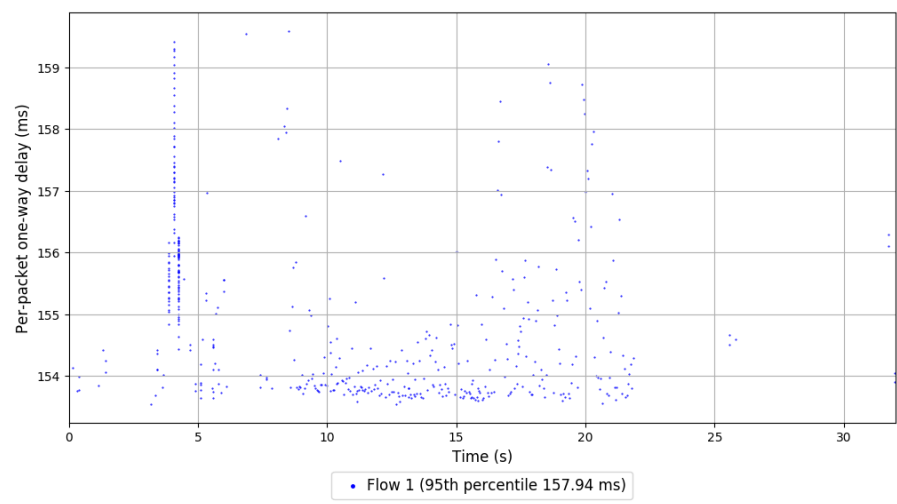
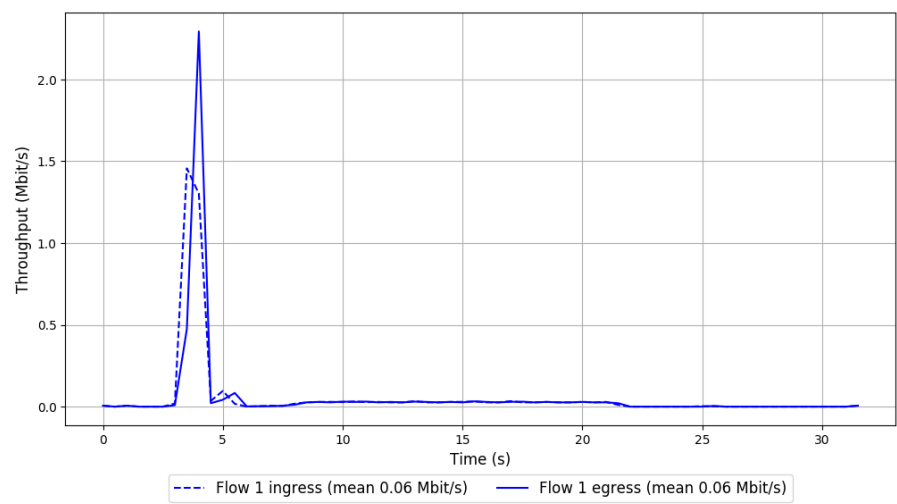


Run 6: Statistics of WebRTC media

Start at: 2018-04-17 07:04:22
End at: 2018-04-17 07:04:52
Local clock offset: -2.312 ms
Remote clock offset: 11.693 ms

Below is generated by plot.py at 2018-04-17 08:59:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 157.944 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 157.944 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-17 07:26:15

End at: 2018-04-17 07:26:45

Local clock offset: 6.508 ms

Remote clock offset: 4.289 ms

Below is generated by plot.py at 2018-04-17 08:59:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 161.864 ms

Loss rate: 0.00%

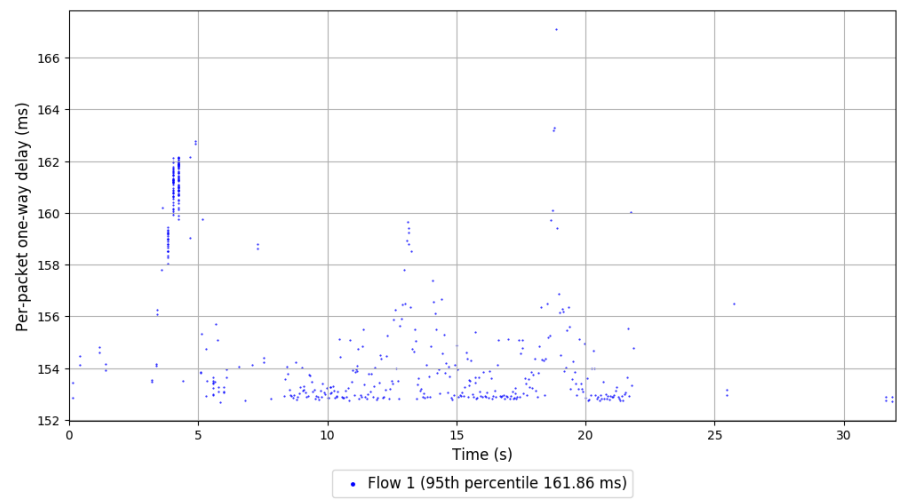
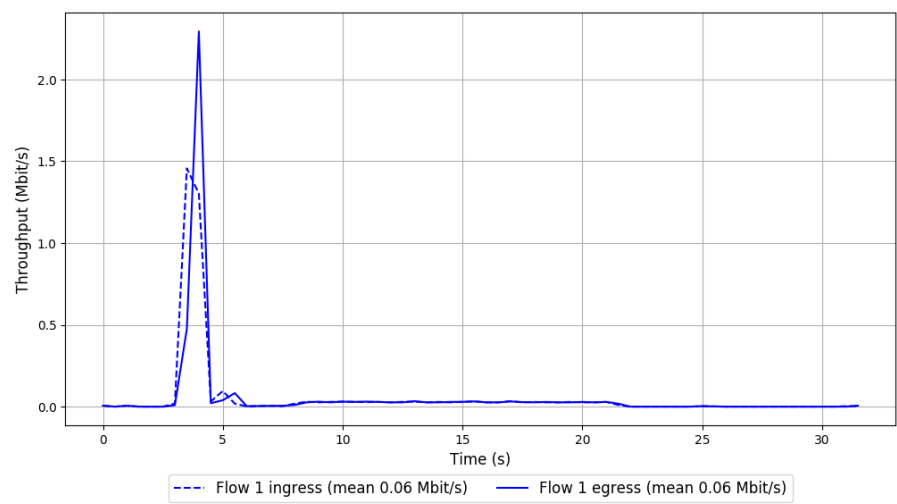
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 161.864 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

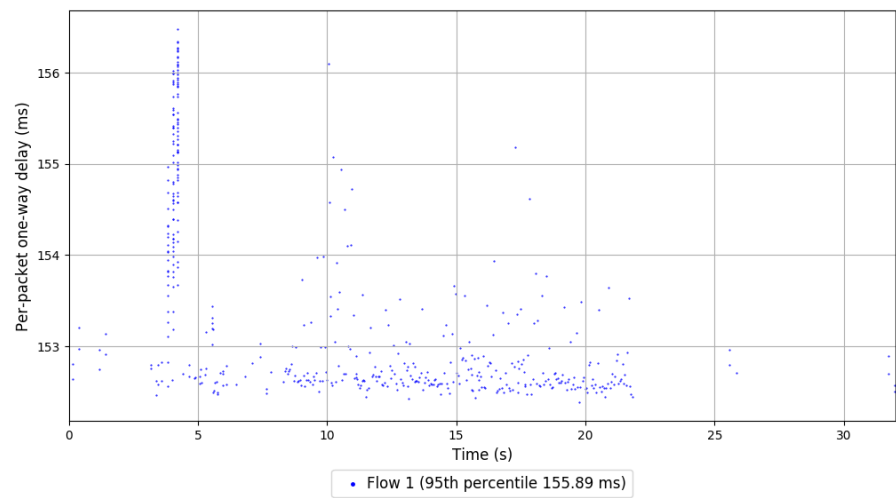
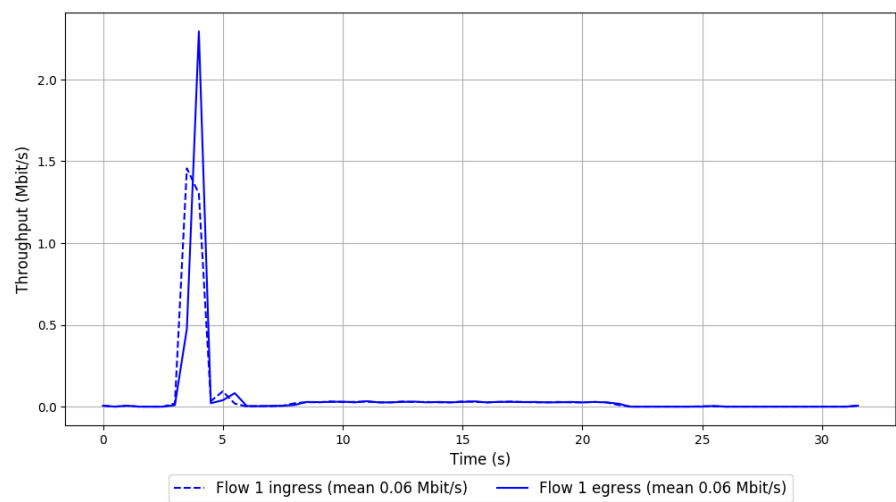


Run 8: Statistics of WebRTC media

Start at: 2018-04-17 07:48:15
End at: 2018-04-17 07:48:45
Local clock offset: 6.777 ms
Remote clock offset: 11.547 ms

Below is generated by plot.py at 2018-04-17 08:59:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 155.891 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 155.891 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-04-17 08:10:40

End at: 2018-04-17 08:11:10

Local clock offset: 6.336 ms

Remote clock offset: 8.914 ms

Below is generated by plot.py at 2018-04-17 08:59:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 174.682 ms

Loss rate: 0.00%

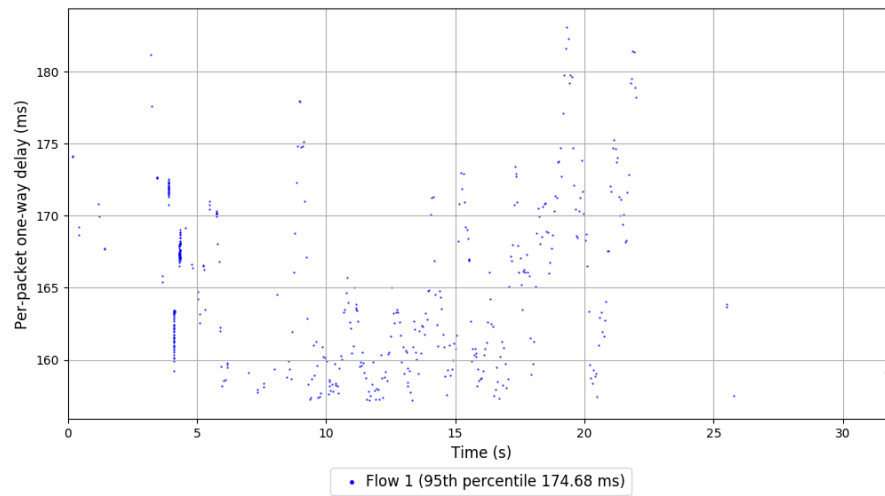
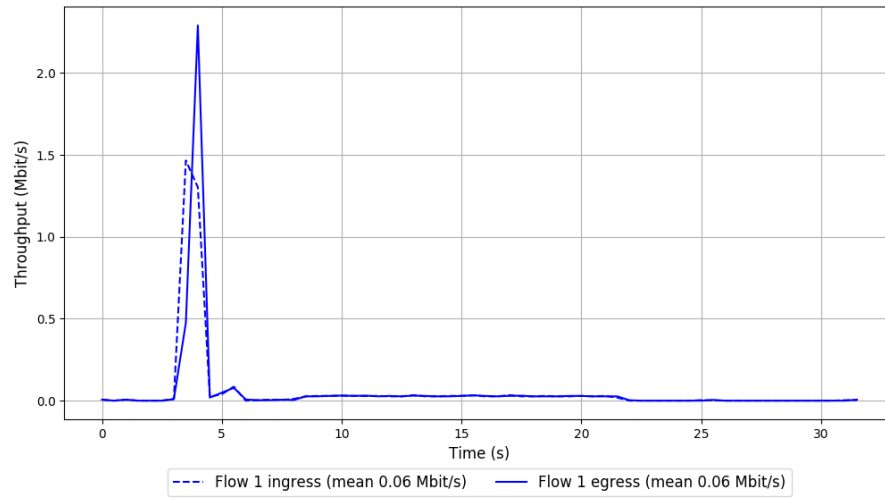
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 174.682 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-17 08:31:34

End at: 2018-04-17 08:32:04

Local clock offset: 0.568 ms

Remote clock offset: 0.91 ms

Below is generated by plot.py at 2018-04-17 08:59:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 167.784 ms

Loss rate: 0.00%

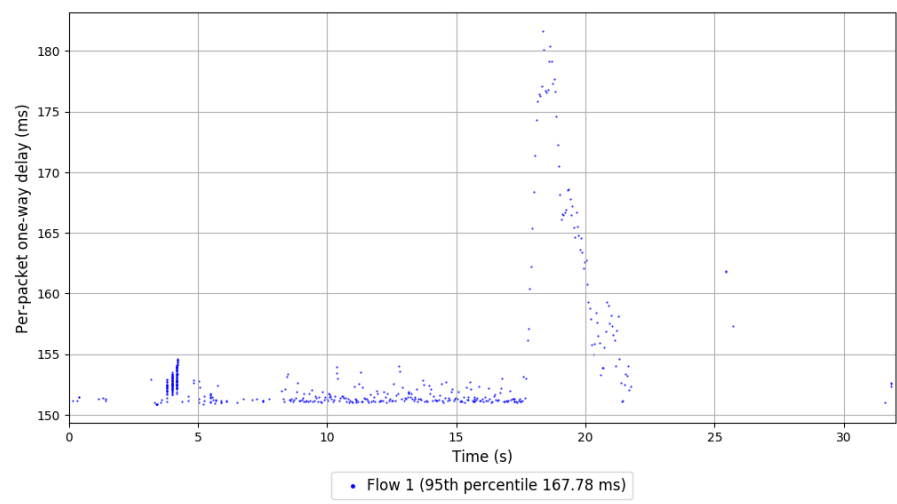
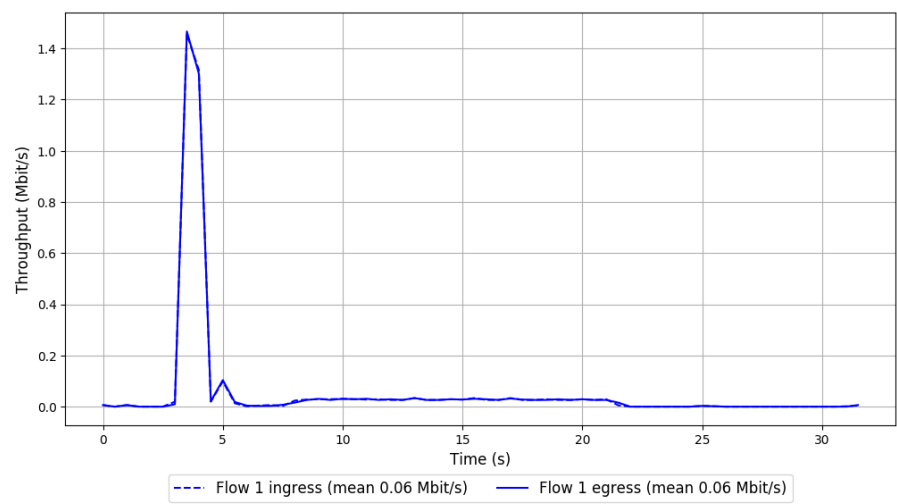
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 167.784 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

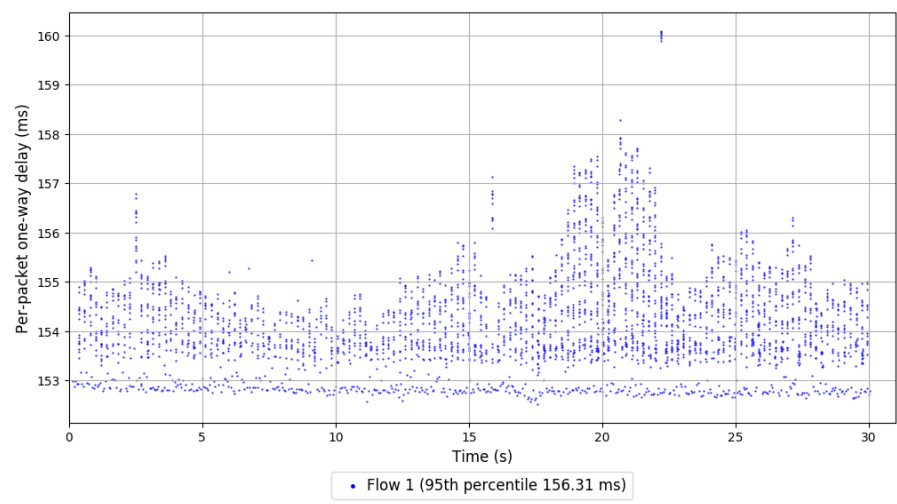
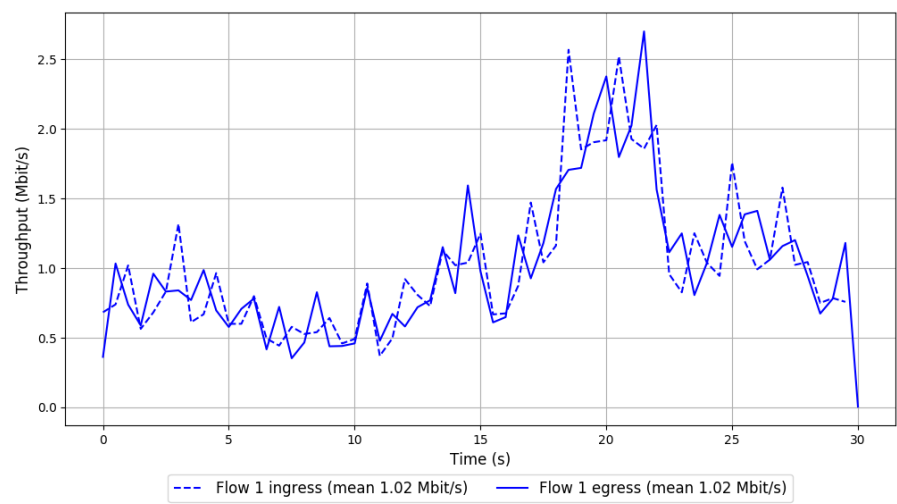


Run 1: Statistics of Sprout

Start at: 2018-04-17 05:10:14
End at: 2018-04-17 05:10:44
Local clock offset: 3.946 ms
Remote clock offset: -13.958 ms

Below is generated by plot.py at 2018-04-17 08:59:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.02 Mbit/s
95th percentile per-packet one-way delay: 156.312 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.02 Mbit/s
95th percentile per-packet one-way delay: 156.312 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-04-17 05:31:22

End at: 2018-04-17 05:31:52

Local clock offset: 7.471 ms

Remote clock offset: 4.878 ms

Below is generated by plot.py at 2018-04-17 08:59:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 165.485 ms

Loss rate: 1.80%

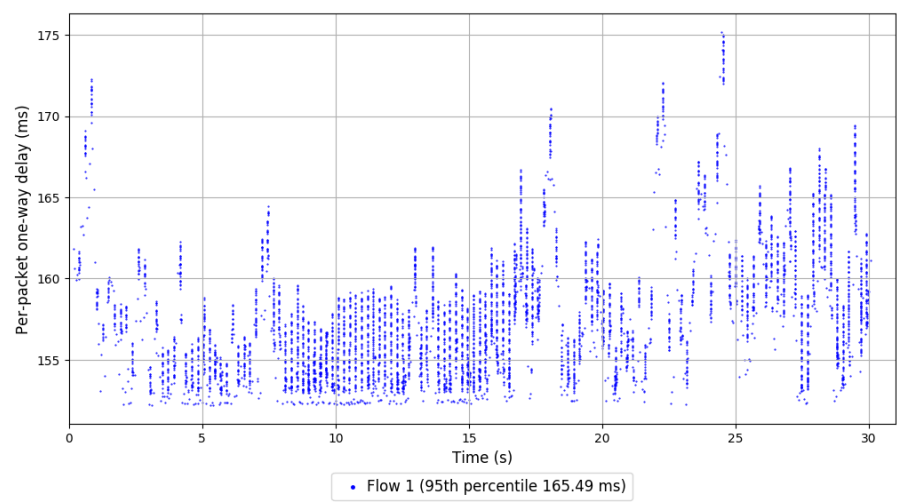
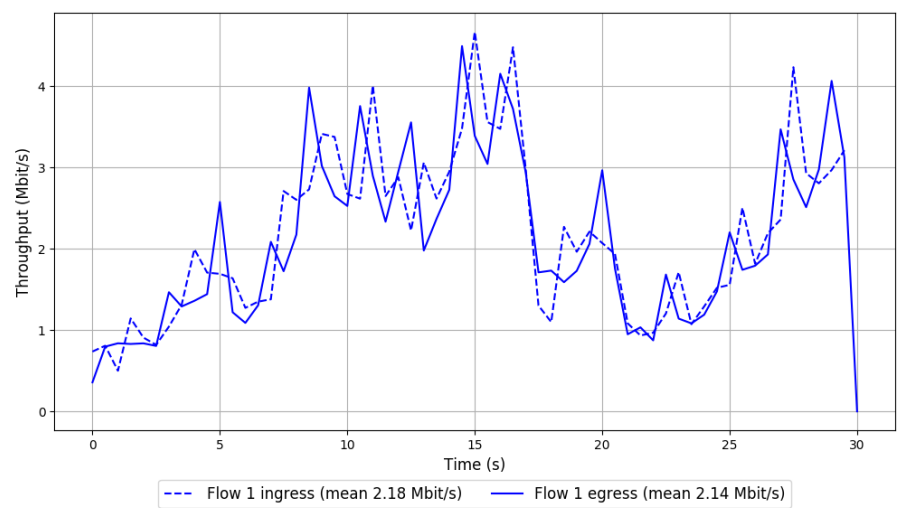
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 165.485 ms

Loss rate: 1.80%

Run 2: Report of Sprout — Data Link

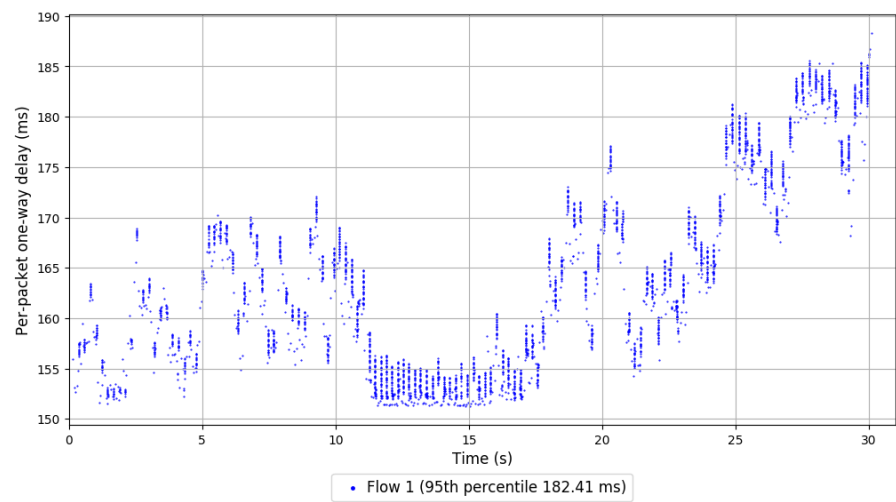
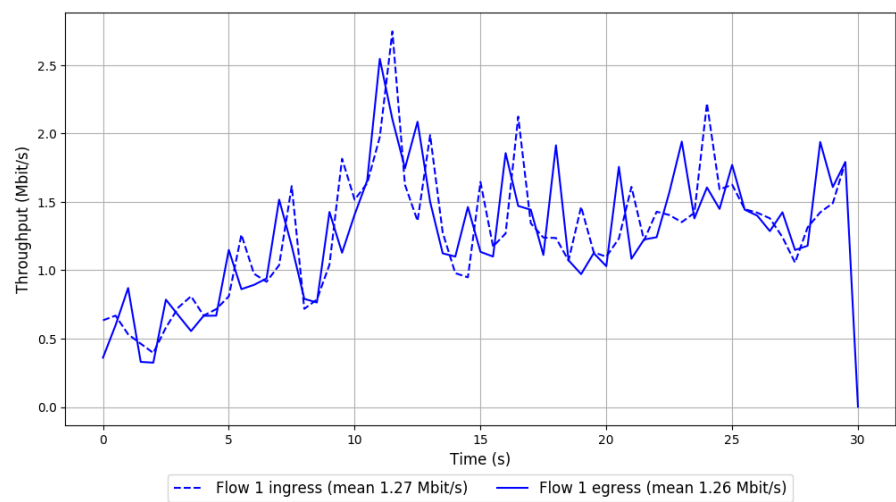


Run 3: Statistics of Sprout

Start at: 2018-04-17 05:52:39
End at: 2018-04-17 05:53:09
Local clock offset: 12.922 ms
Remote clock offset: -5.145 ms

Below is generated by plot.py at 2018-04-17 08:59:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 182.415 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 182.415 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

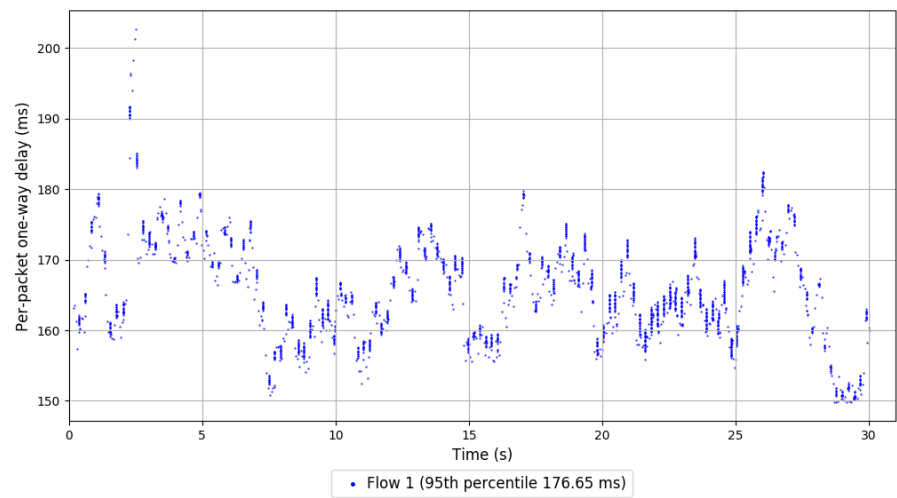
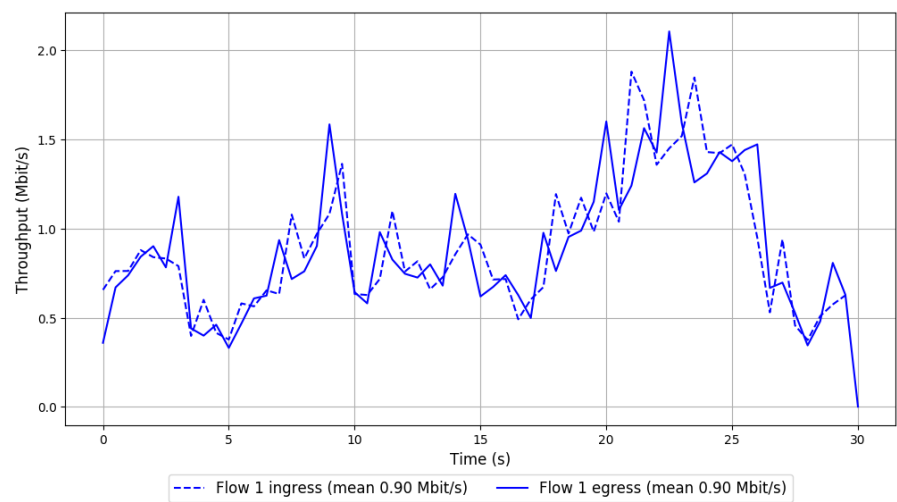


Run 4: Statistics of Sprout

Start at: 2018-04-17 06:13:50
End at: 2018-04-17 06:14:20
Local clock offset: 8.92 ms
Remote clock offset: -16.404 ms

Below is generated by plot.py at 2018-04-17 08:59:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 176.650 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 176.650 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-04-17 06:34:59

End at: 2018-04-17 06:35:29

Local clock offset: 6.494 ms

Remote clock offset: 0.248 ms

Below is generated by plot.py at 2018-04-17 08:59:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 164.150 ms

Loss rate: 0.00%

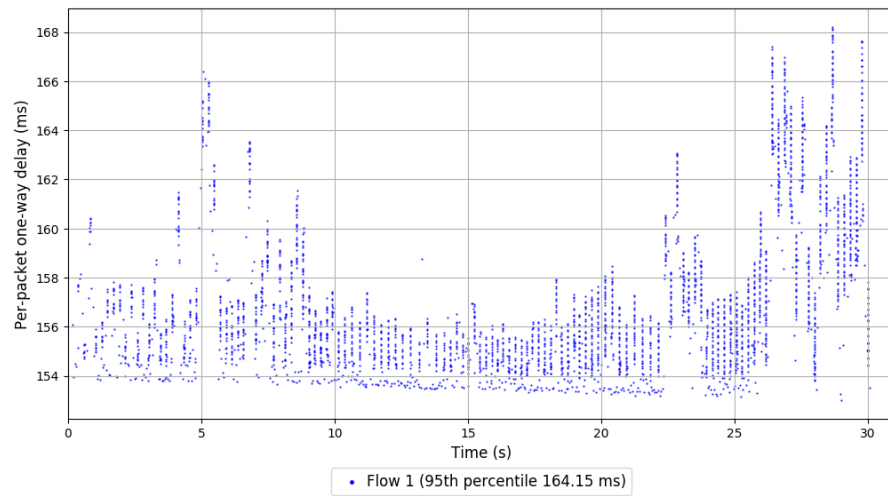
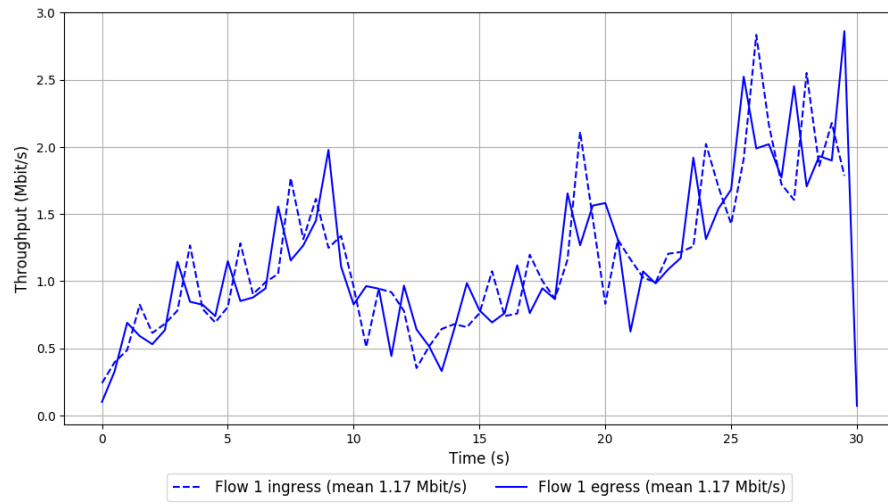
-- Flow 1:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 164.150 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

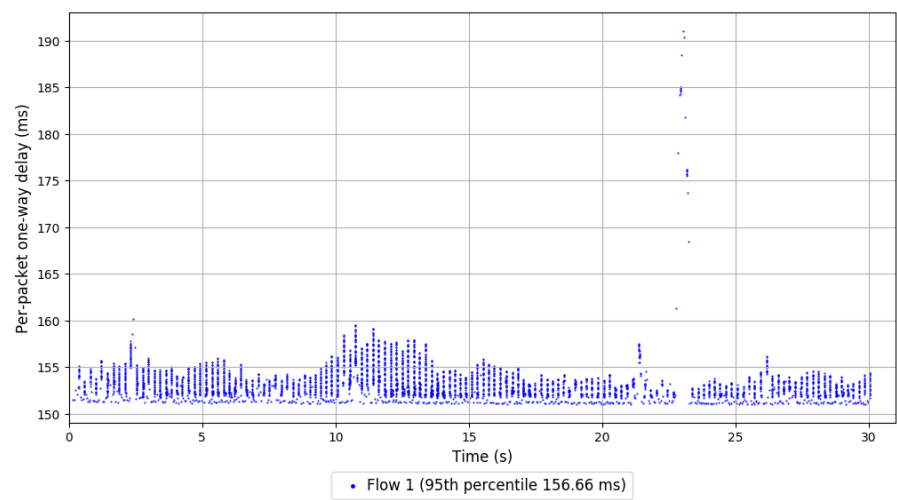
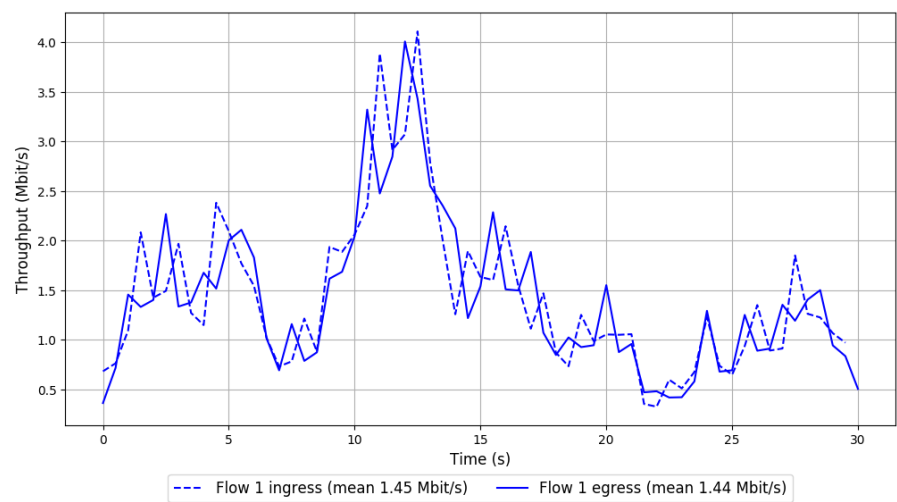


Run 6: Statistics of Sprout

Start at: 2018-04-17 07:01:57
End at: 2018-04-17 07:02:27
Local clock offset: -2.094 ms
Remote clock offset: 10.733 ms

Below is generated by plot.py at 2018-04-17 08:59:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 156.662 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 156.662 ms
Loss rate: 0.28%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-04-17 07:23:50

End at: 2018-04-17 07:24:20

Local clock offset: 6.028 ms

Remote clock offset: 2.992 ms

Below is generated by plot.py at 2018-04-17 08:59:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 168.744 ms

Loss rate: 0.65%

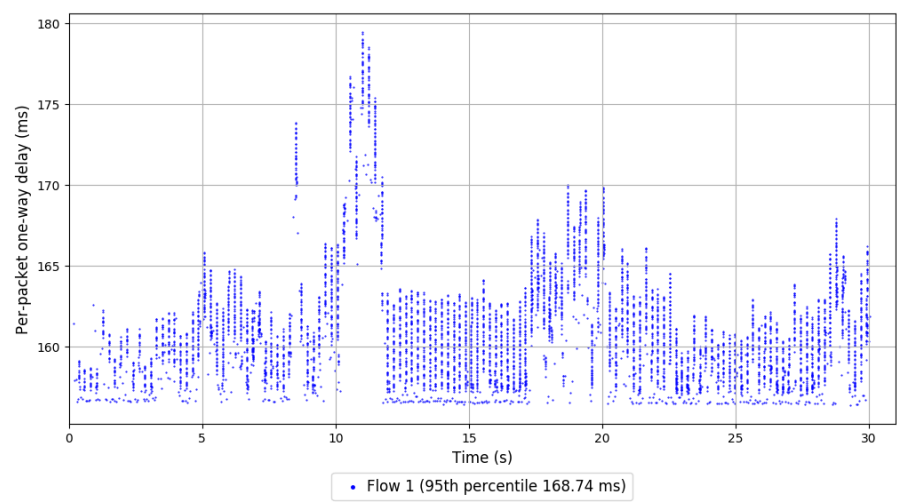
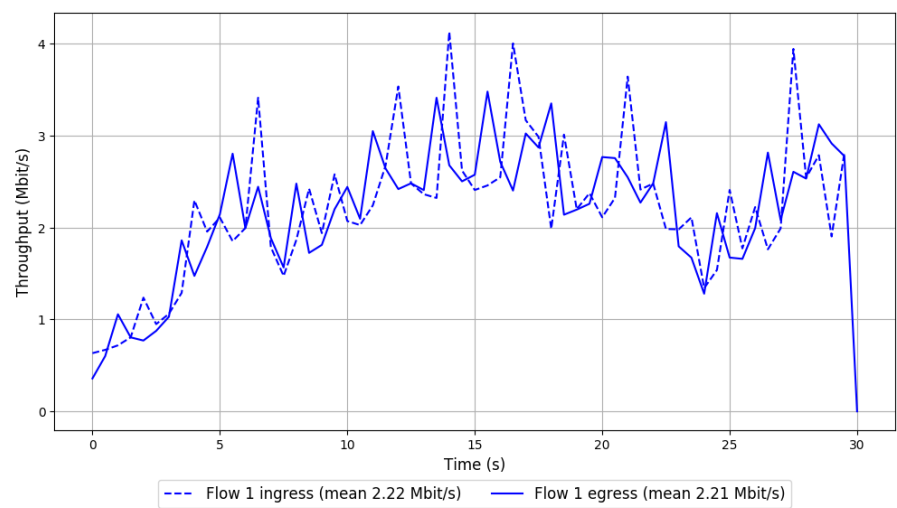
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 168.744 ms

Loss rate: 0.65%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-04-17 07:45:44

End at: 2018-04-17 07:46:14

Local clock offset: 7.038 ms

Remote clock offset: 7.159 ms

Below is generated by plot.py at 2018-04-17 08:59:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 156.255 ms

Loss rate: 0.57%

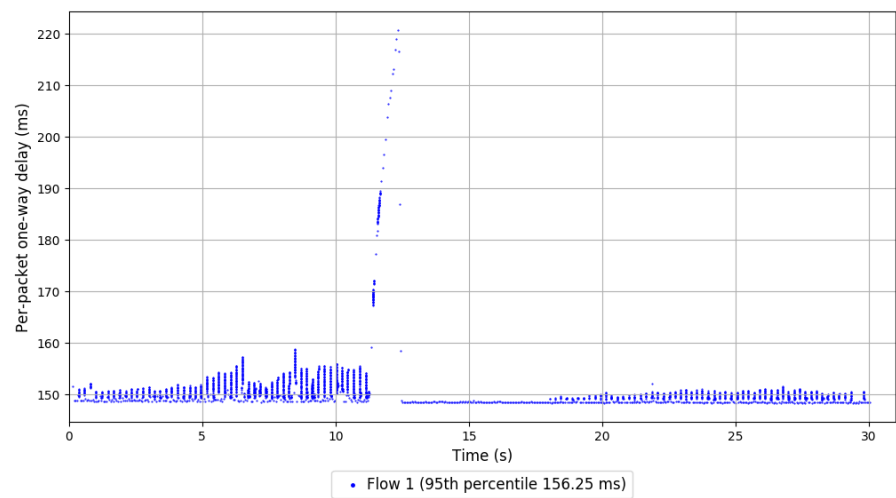
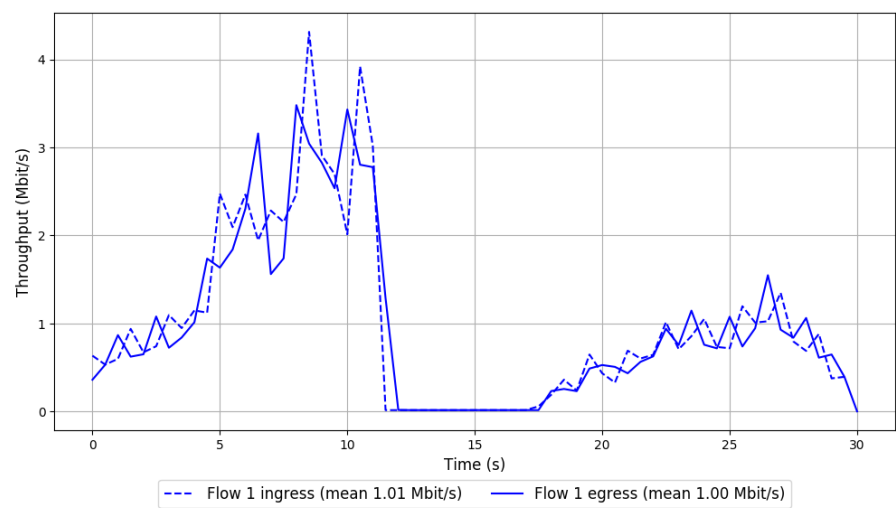
-- Flow 1:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 156.255 ms

Loss rate: 0.57%

Run 8: Report of Sprout — Data Link

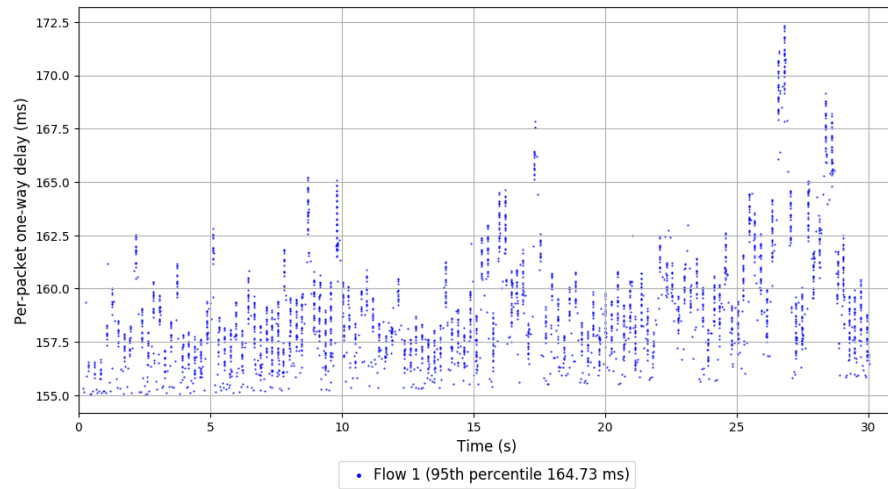
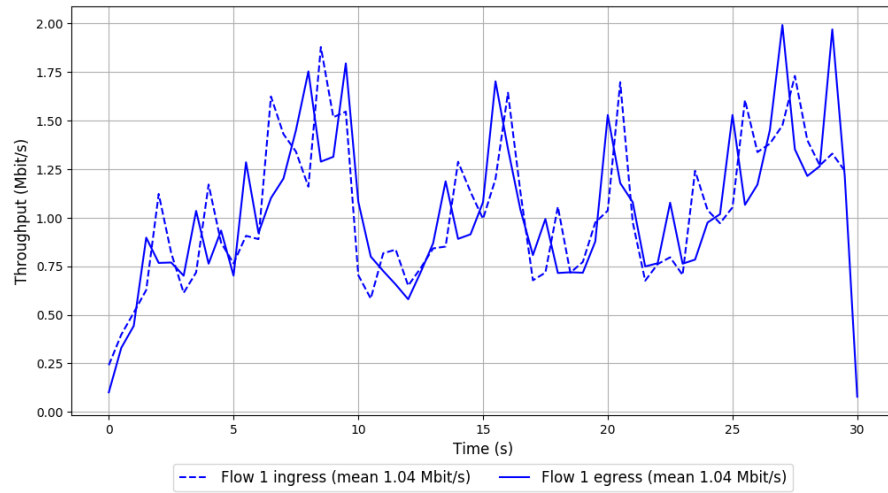


Run 9: Statistics of Sprout

Start at: 2018-04-17 08:08:15
End at: 2018-04-17 08:08:45
Local clock offset: 6.326 ms
Remote clock offset: 12.591 ms

Below is generated by plot.py at 2018-04-17 08:59:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 164.734 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 164.734 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-04-17 08:29:25

End at: 2018-04-17 08:29:55

Local clock offset: 1.034 ms

Remote clock offset: 1.262 ms

Below is generated by plot.py at 2018-04-17 08:59:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 156.344 ms

Loss rate: 0.00%

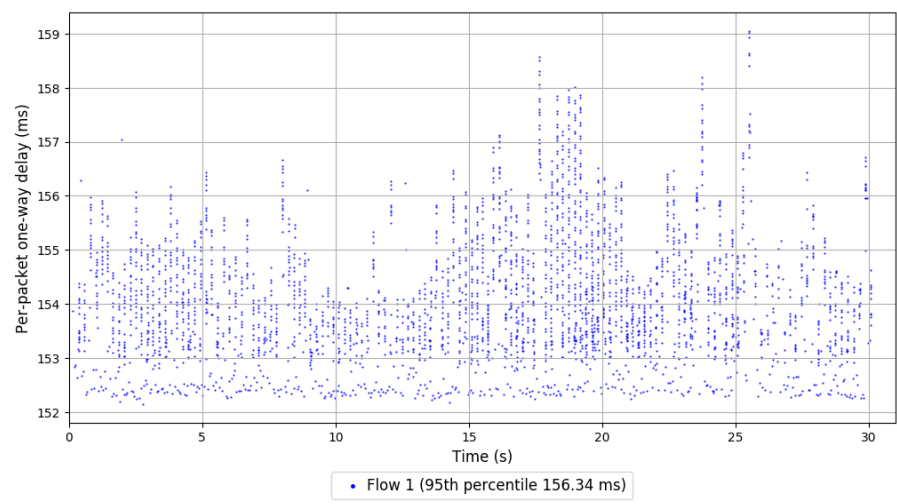
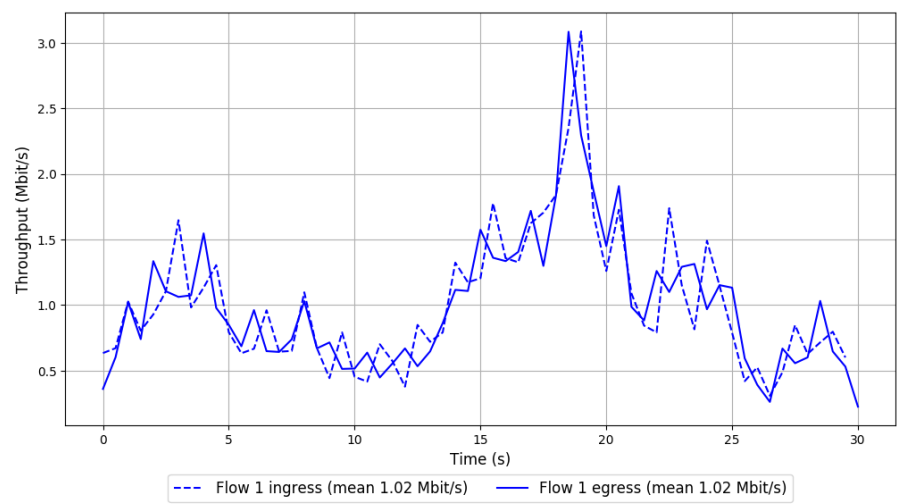
-- Flow 1:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 156.344 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

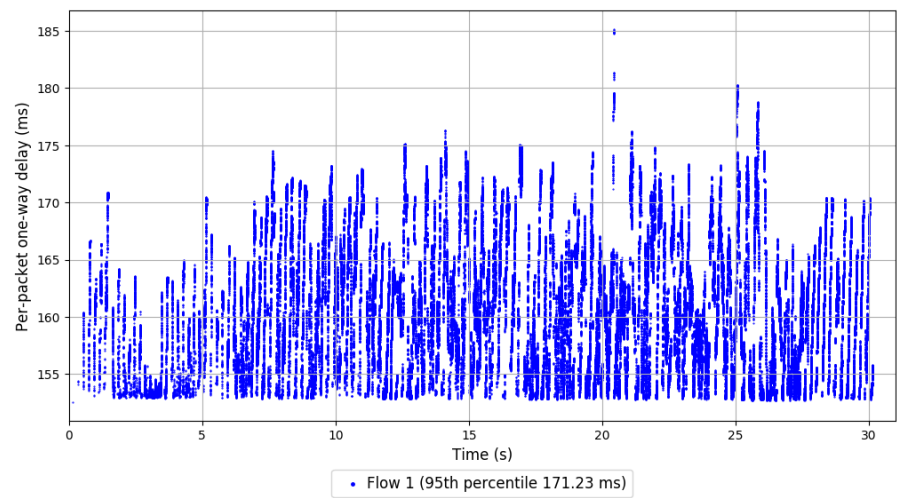
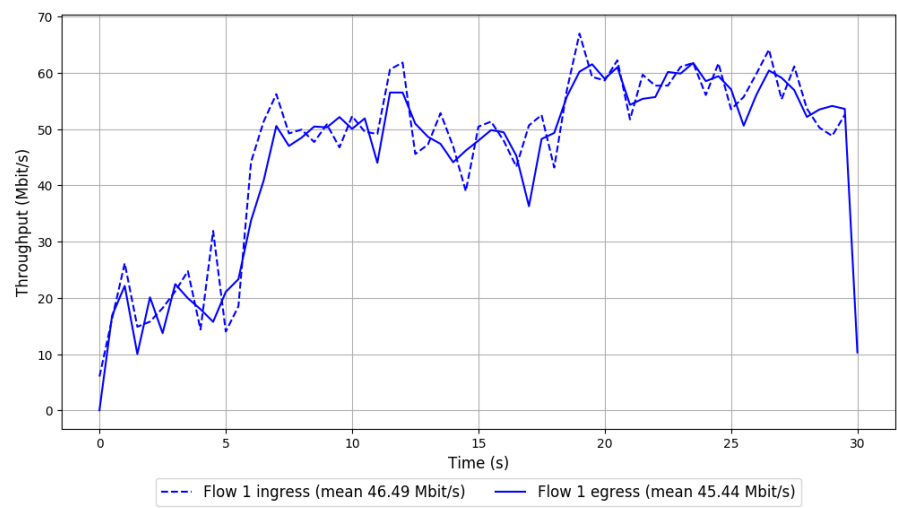


Run 1: Statistics of TaoVA-100x

Start at: 2018-04-17 04:57:43
End at: 2018-04-17 04:58:13
Local clock offset: 7.497 ms
Remote clock offset: -13.557 ms

Below is generated by plot.py at 2018-04-17 09:00:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 45.44 Mbit/s
95th percentile per-packet one-way delay: 171.232 ms
Loss rate: 2.25%
-- Flow 1:
Average throughput: 45.44 Mbit/s
95th percentile per-packet one-way delay: 171.232 ms
Loss rate: 2.25%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-04-17 05:18:55

End at: 2018-04-17 05:19:25

Local clock offset: 2.999 ms

Remote clock offset: -7.043 ms

Below is generated by plot.py at 2018-04-17 09:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.53 Mbit/s

95th percentile per-packet one-way delay: 173.636 ms

Loss rate: 1.68%

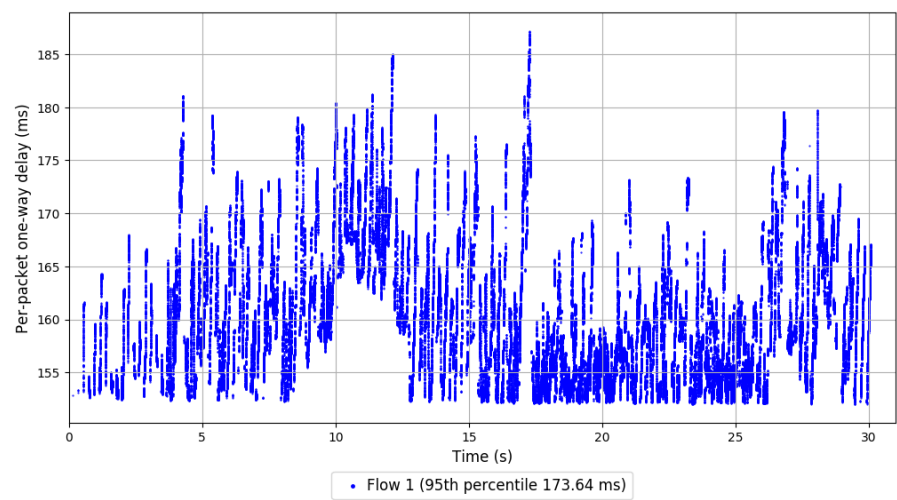
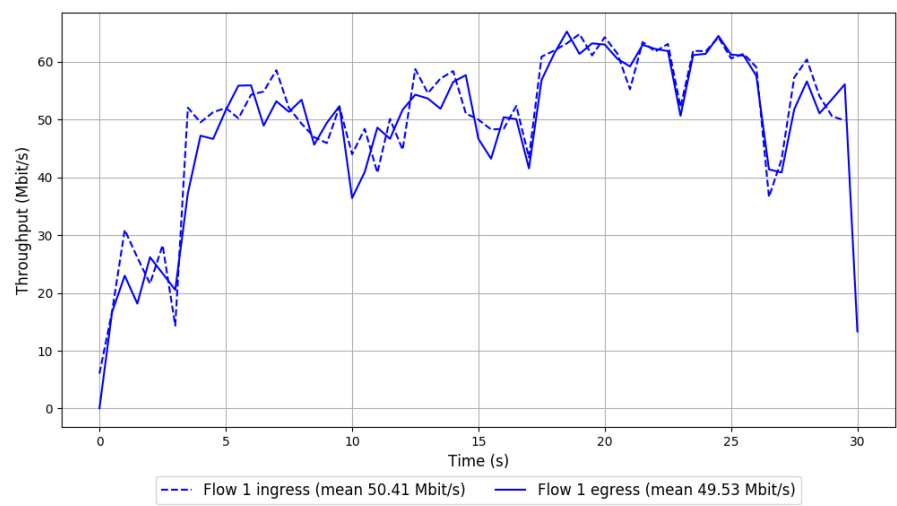
-- Flow 1:

Average throughput: 49.53 Mbit/s

95th percentile per-packet one-way delay: 173.636 ms

Loss rate: 1.68%

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

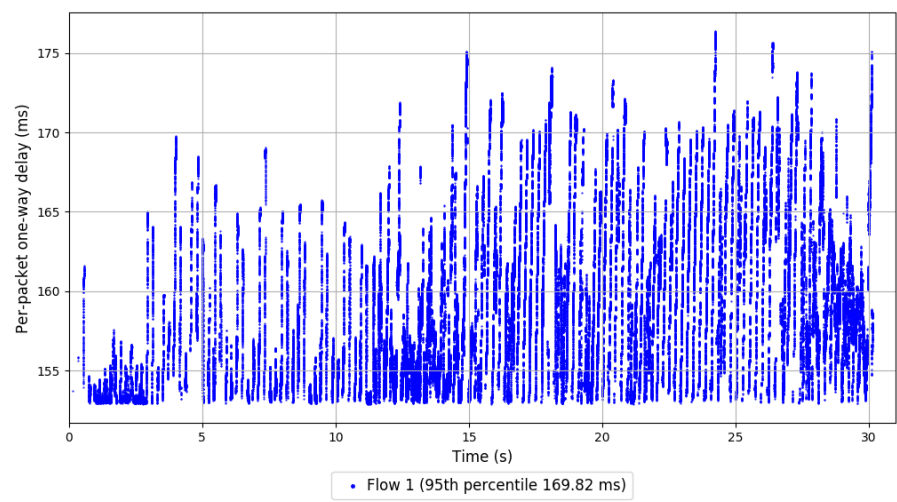
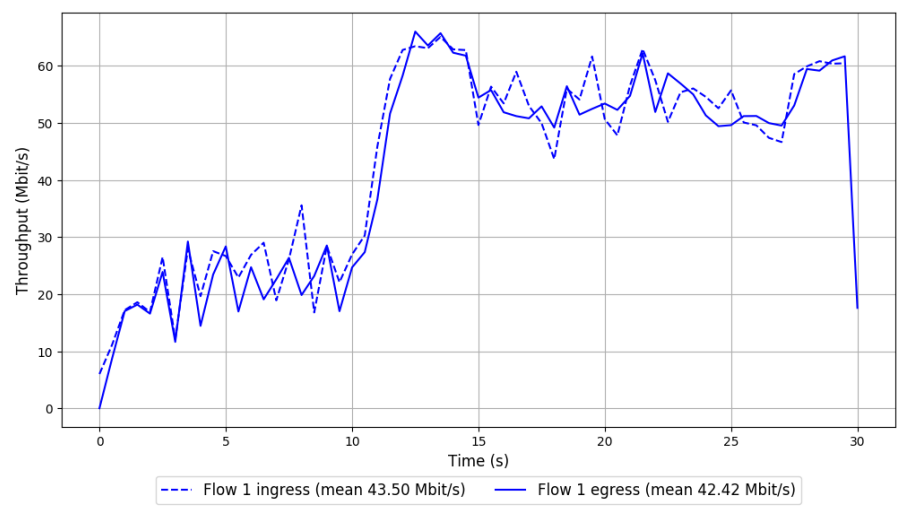


Run 3: Statistics of TaoVA-100x

Start at: 2018-04-17 05:40:07
End at: 2018-04-17 05:40:37
Local clock offset: 10.429 ms
Remote clock offset: -15.931 ms

Below is generated by plot.py at 2018-04-17 09:00:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 42.42 Mbit/s
95th percentile per-packet one-way delay: 169.825 ms
Loss rate: 2.48%
-- Flow 1:
Average throughput: 42.42 Mbit/s
95th percentile per-packet one-way delay: 169.825 ms
Loss rate: 2.48%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-04-17 06:01:19

End at: 2018-04-17 06:01:49

Local clock offset: 11.866 ms

Remote clock offset: 4.912 ms

Below is generated by plot.py at 2018-04-17 09:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.88 Mbit/s

95th percentile per-packet one-way delay: 181.138 ms

Loss rate: 1.06%

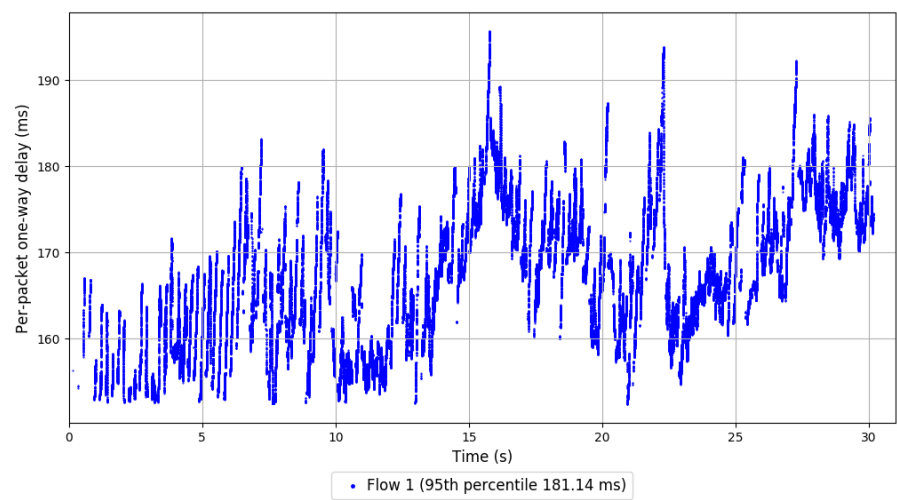
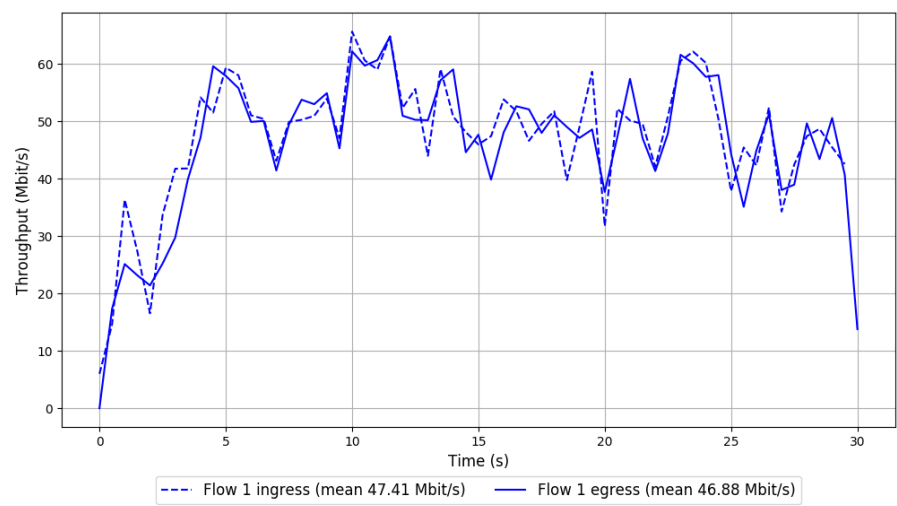
-- Flow 1:

Average throughput: 46.88 Mbit/s

95th percentile per-packet one-way delay: 181.138 ms

Loss rate: 1.06%

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

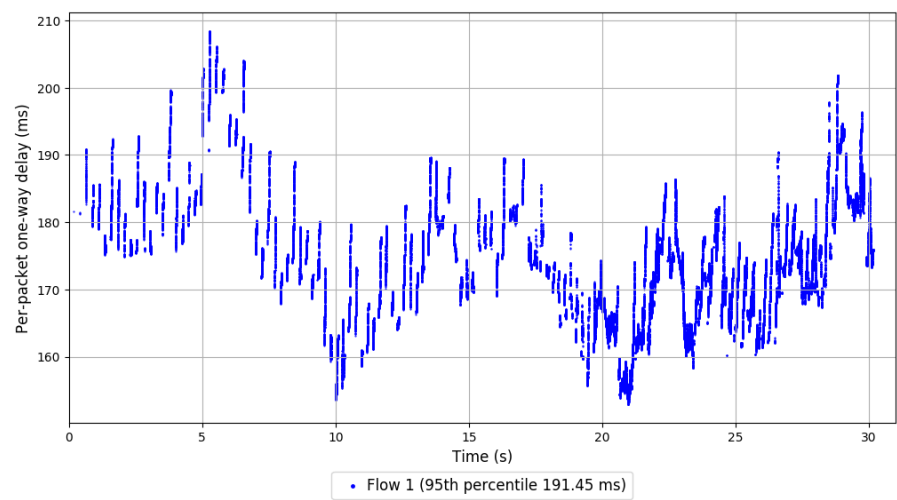
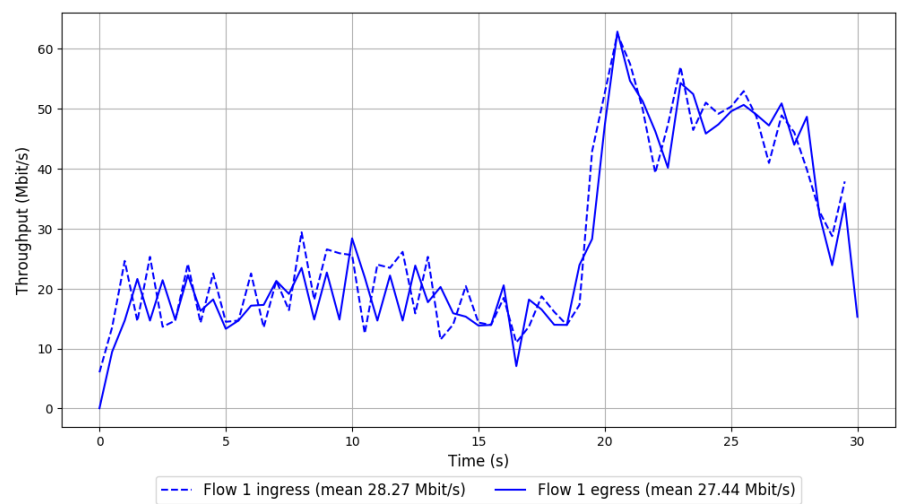


Run 5: Statistics of TaoVA-100x

Start at: 2018-04-17 06:22:35
End at: 2018-04-17 06:23:05
Local clock offset: 8.413 ms
Remote clock offset: -14.955 ms

Below is generated by plot.py at 2018-04-17 09:00:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 27.44 Mbit/s
95th percentile per-packet one-way delay: 191.450 ms
Loss rate: 2.97%
-- Flow 1:
Average throughput: 27.44 Mbit/s
95th percentile per-packet one-way delay: 191.450 ms
Loss rate: 2.97%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-17 06:49:24

End at: 2018-04-17 06:49:54

Local clock offset: 0.45 ms

Remote clock offset: 4.507 ms

Below is generated by plot.py at 2018-04-17 09:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.35 Mbit/s

95th percentile per-packet one-way delay: 173.607 ms

Loss rate: 1.35%

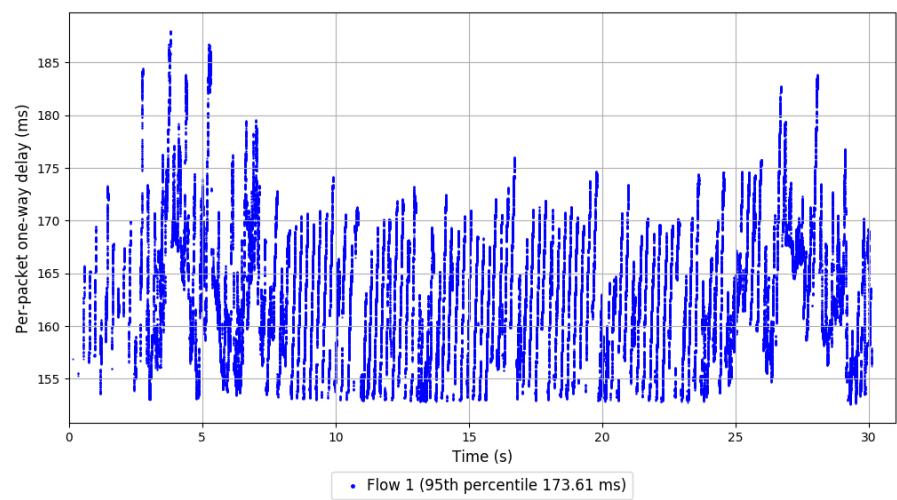
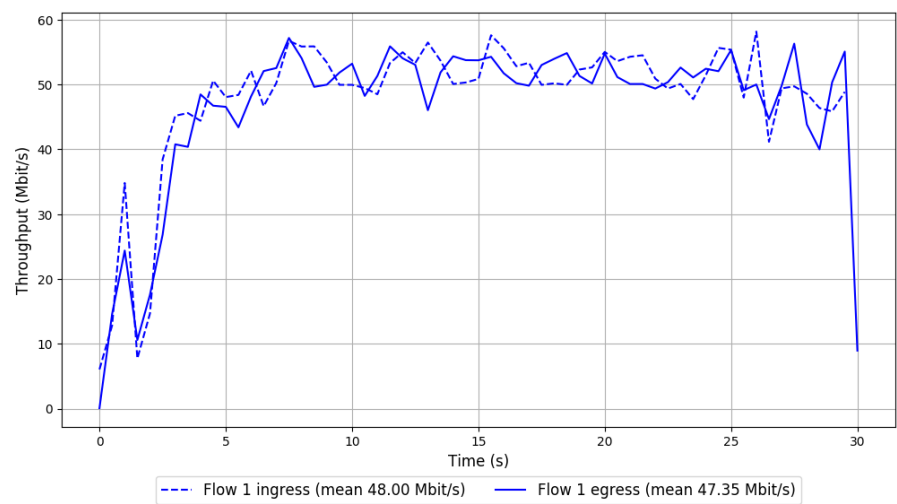
-- Flow 1:

Average throughput: 47.35 Mbit/s

95th percentile per-packet one-way delay: 173.607 ms

Loss rate: 1.35%

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

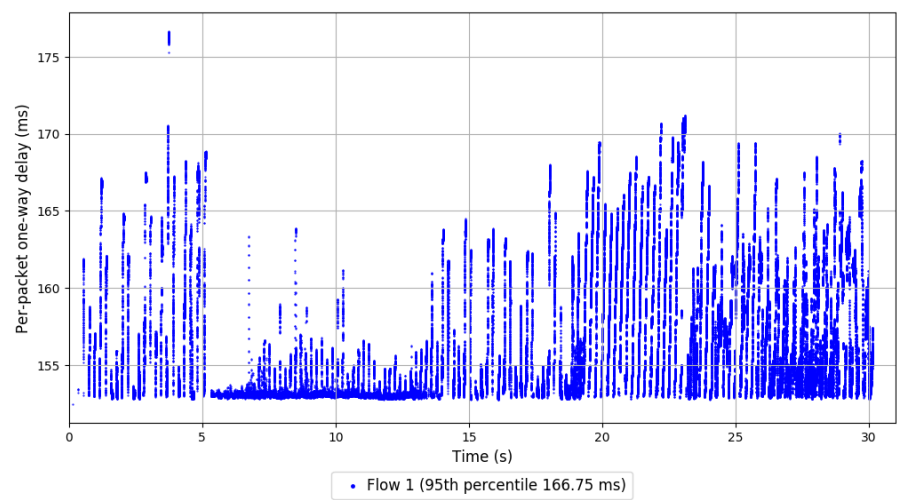
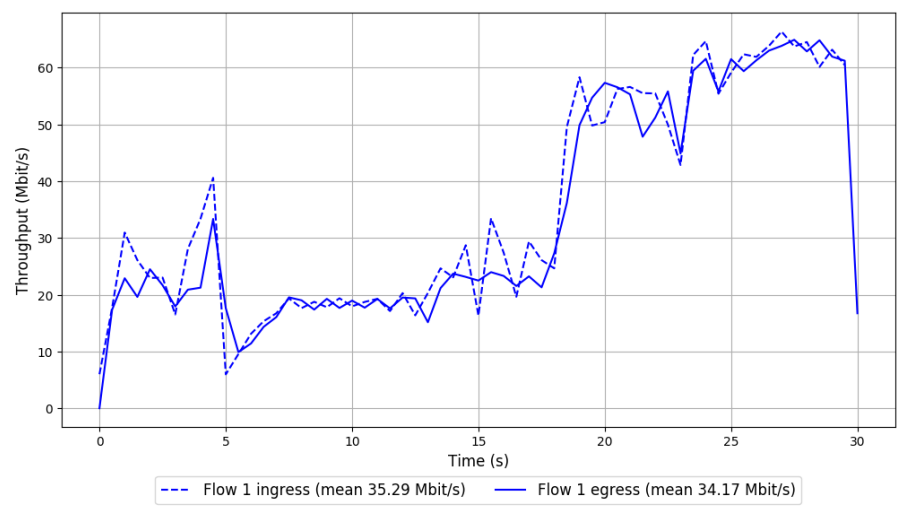


Run 7: Statistics of TaoVA-100x

Start at: 2018-04-17 07:11:21
End at: 2018-04-17 07:11:51
Local clock offset: 1.413 ms
Remote clock offset: -3.723 ms

Below is generated by plot.py at 2018-04-17 09:00:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 34.17 Mbit/s
95th percentile per-packet one-way delay: 166.745 ms
Loss rate: 3.14%
-- Flow 1:
Average throughput: 34.17 Mbit/s
95th percentile per-packet one-way delay: 166.745 ms
Loss rate: 3.14%

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

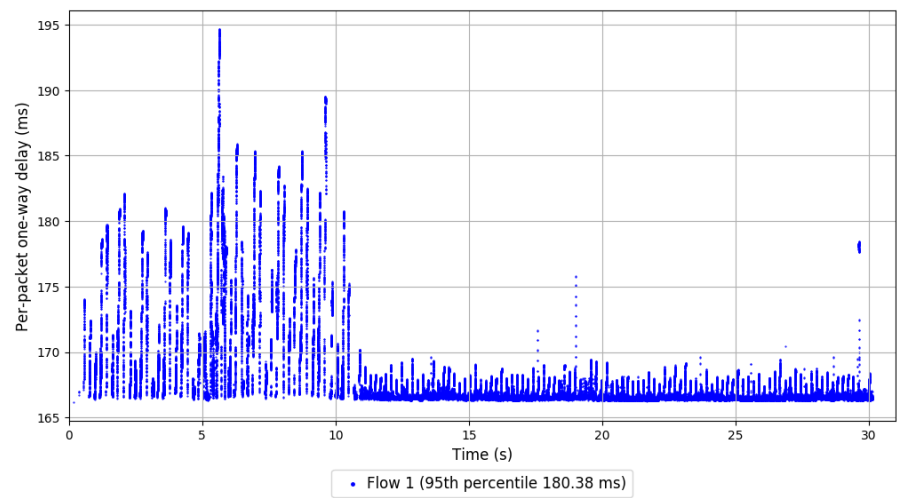
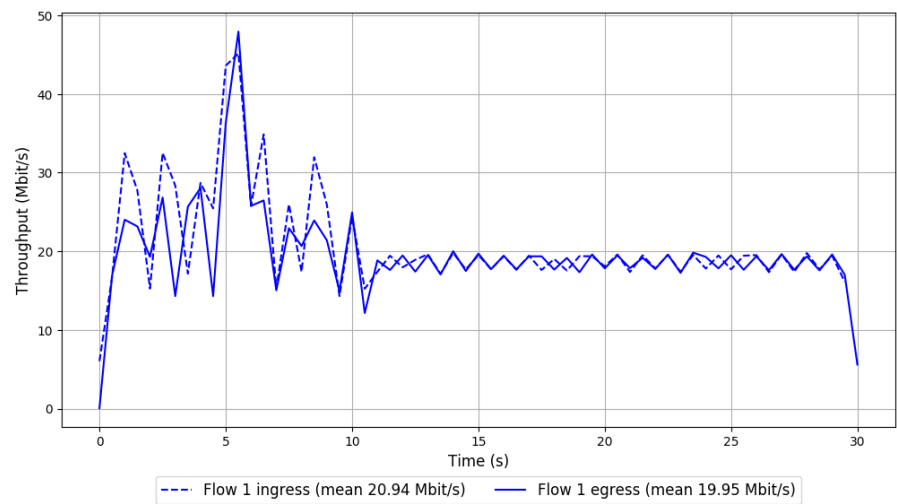


Run 8: Statistics of TaoVA-100x

Start at: 2018-04-17 07:32:40
End at: 2018-04-17 07:33:10
Local clock offset: 7.004 ms
Remote clock offset: 18.465 ms

Below is generated by plot.py at 2018-04-17 09:00:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 19.95 Mbit/s
95th percentile per-packet one-way delay: 180.379 ms
Loss rate: 4.70%
-- Flow 1:
Average throughput: 19.95 Mbit/s
95th percentile per-packet one-way delay: 180.379 ms
Loss rate: 4.70%

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

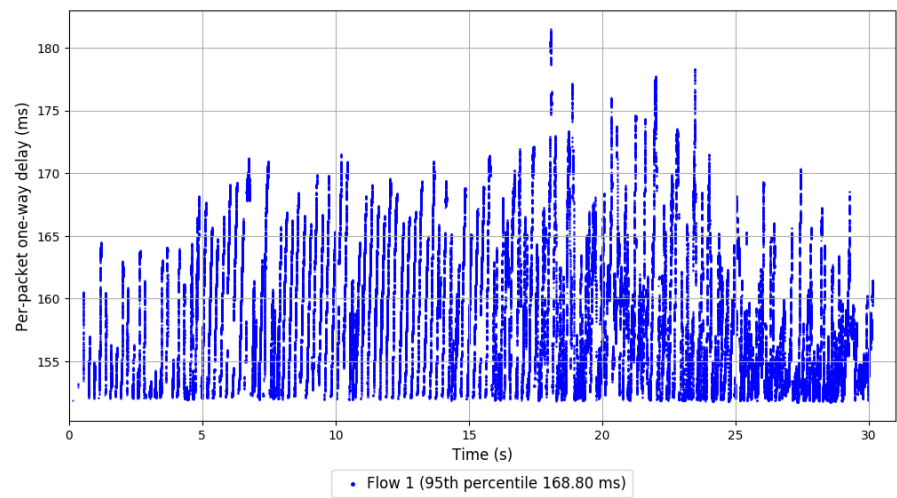
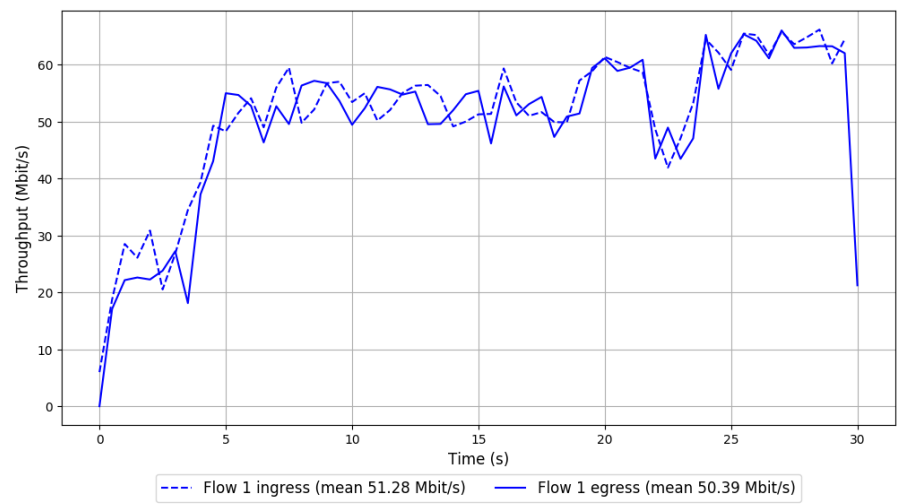


Run 9: Statistics of TaoVA-100x

Start at: 2018-04-17 07:54:31
End at: 2018-04-17 07:55:01
Local clock offset: 6.689 ms
Remote clock offset: 14.443 ms

Below is generated by plot.py at 2018-04-17 09:01:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.39 Mbit/s
95th percentile per-packet one-way delay: 168.796 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 50.39 Mbit/s
95th percentile per-packet one-way delay: 168.796 ms
Loss rate: 1.71%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-04-17 08:16:58

End at: 2018-04-17 08:17:28

Local clock offset: 5.029 ms

Remote clock offset: 4.211 ms

Below is generated by plot.py at 2018-04-17 09:01:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.31 Mbit/s

95th percentile per-packet one-way delay: 170.099 ms

Loss rate: 3.59%

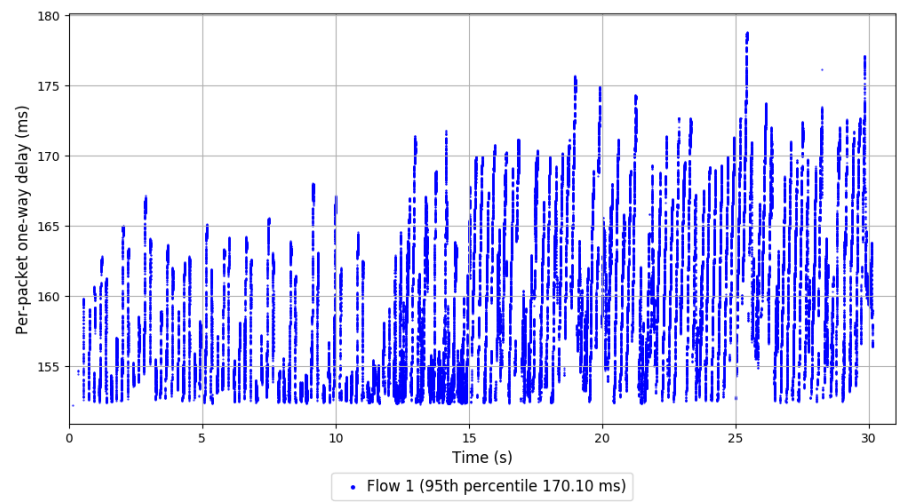
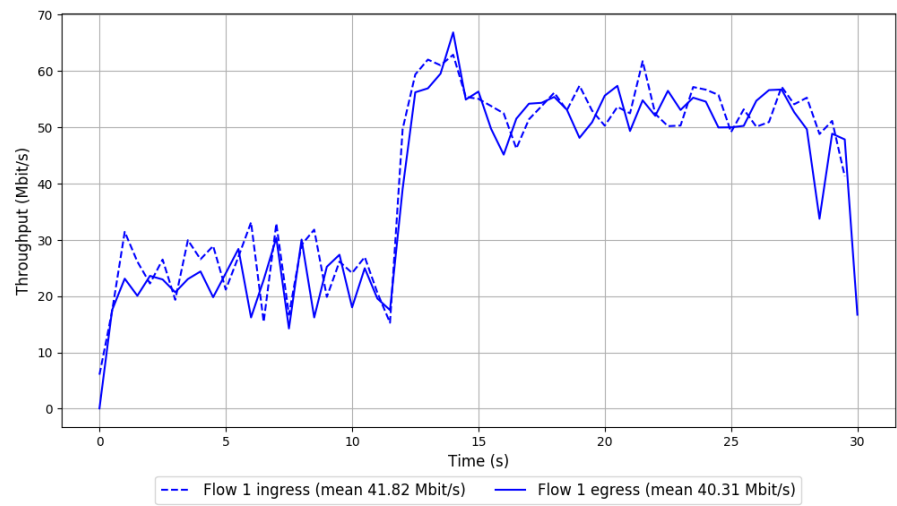
-- Flow 1:

Average throughput: 40.31 Mbit/s

95th percentile per-packet one-way delay: 170.099 ms

Loss rate: 3.59%

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

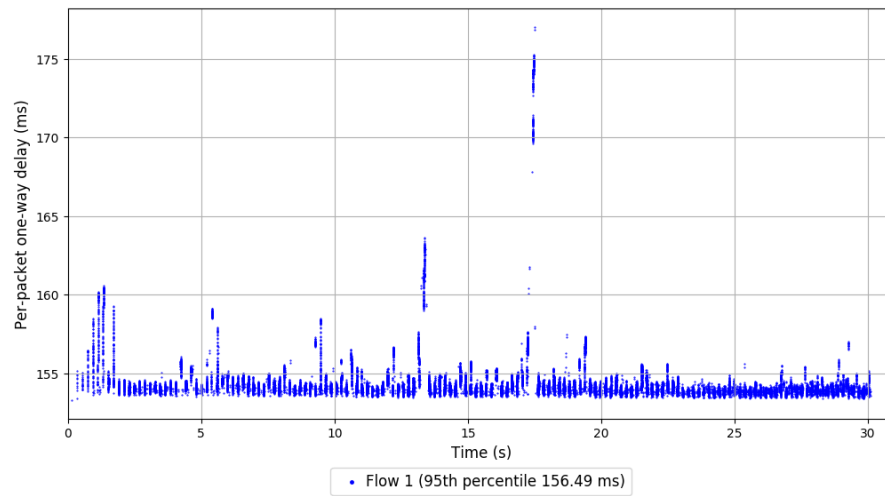
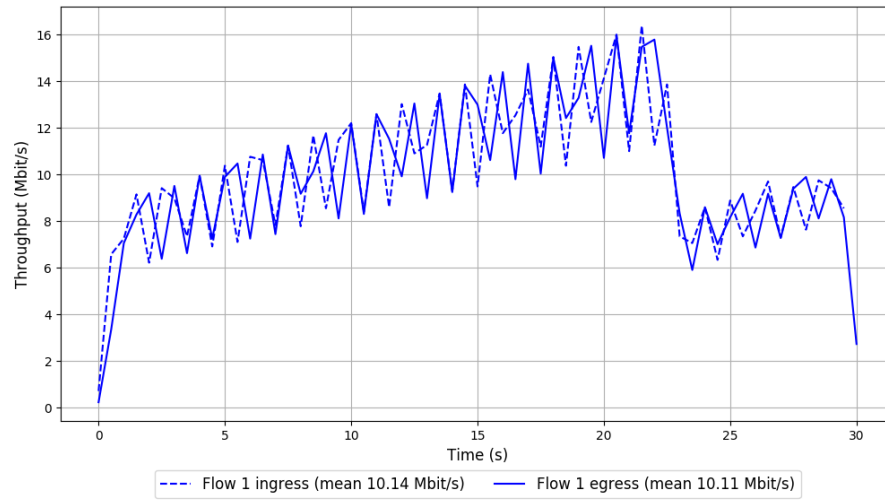


Run 1: Statistics of TCP Vegas

Start at: 2018-04-17 05:00:16
End at: 2018-04-17 05:00:46
Local clock offset: 6.275 ms
Remote clock offset: -13.738 ms

Below is generated by plot.py at 2018-04-17 09:01:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 10.11 Mbit/s
95th percentile per-packet one-way delay: 156.486 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 10.11 Mbit/s
95th percentile per-packet one-way delay: 156.486 ms
Loss rate: 0.28%

Run 1: Report of TCP Vegas — Data Link

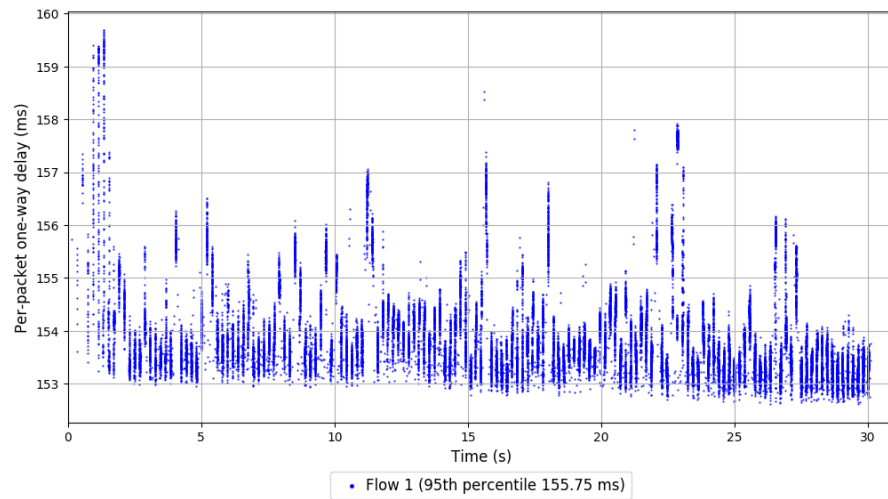
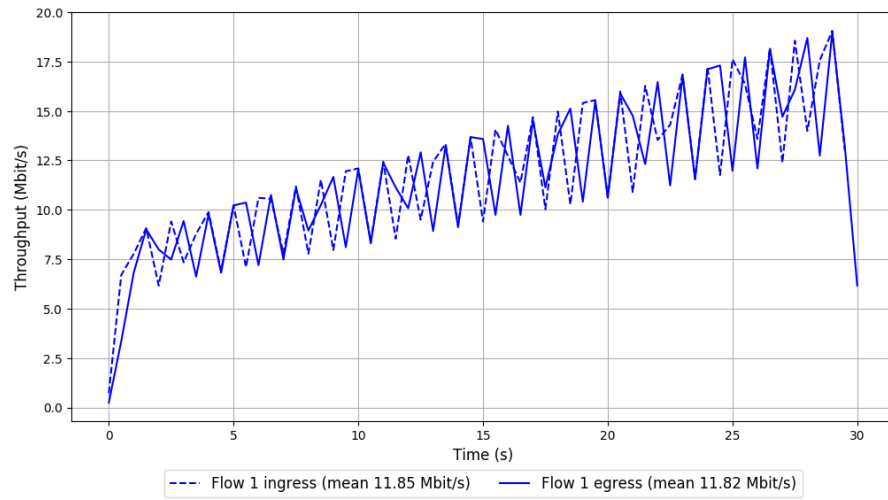


Run 2: Statistics of TCP Vegas

Start at: 2018-04-17 05:21:27
End at: 2018-04-17 05:21:57
Local clock offset: 2.857 ms
Remote clock offset: -4.426 ms

Below is generated by plot.py at 2018-04-17 09:01:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.82 Mbit/s
95th percentile per-packet one-way delay: 155.753 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 11.82 Mbit/s
95th percentile per-packet one-way delay: 155.753 ms
Loss rate: 0.25%

Run 2: Report of TCP Vegas — Data Link

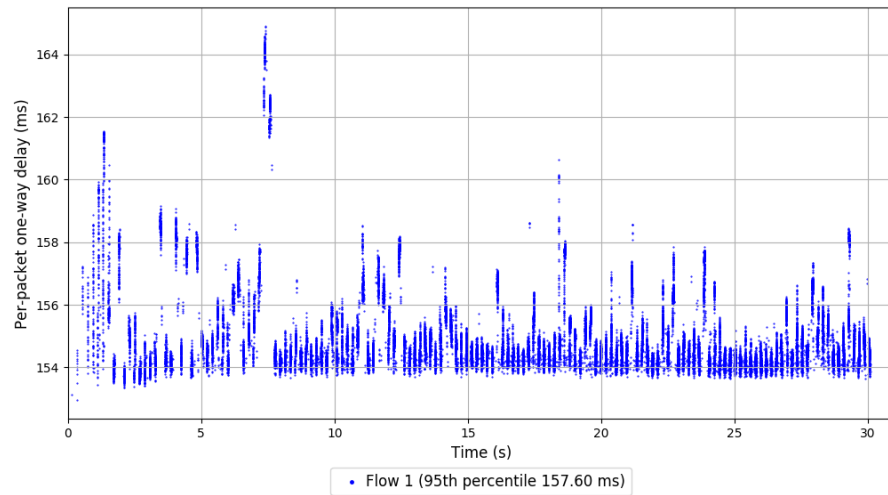
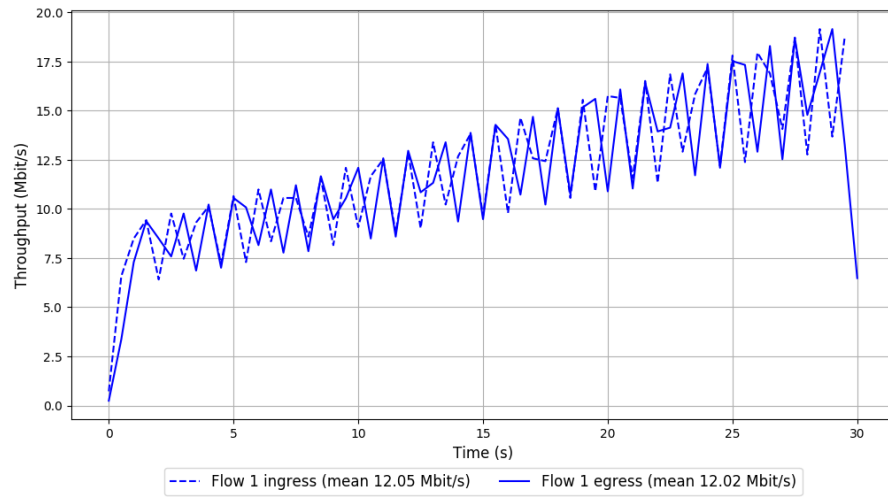


Run 3: Statistics of TCP Vegas

Start at: 2018-04-17 05:42:41
End at: 2018-04-17 05:43:11
Local clock offset: 11.21 ms
Remote clock offset: -15.273 ms

Below is generated by plot.py at 2018-04-17 09:01:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.02 Mbit/s
95th percentile per-packet one-way delay: 157.604 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 12.02 Mbit/s
95th percentile per-packet one-way delay: 157.604 ms
Loss rate: 0.25%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-04-17 06:03:53

End at: 2018-04-17 06:04:23

Local clock offset: 11.068 ms

Remote clock offset: 6.95 ms

Below is generated by plot.py at 2018-04-17 09:01:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.73 Mbit/s

95th percentile per-packet one-way delay: 172.613 ms

Loss rate: 0.55%

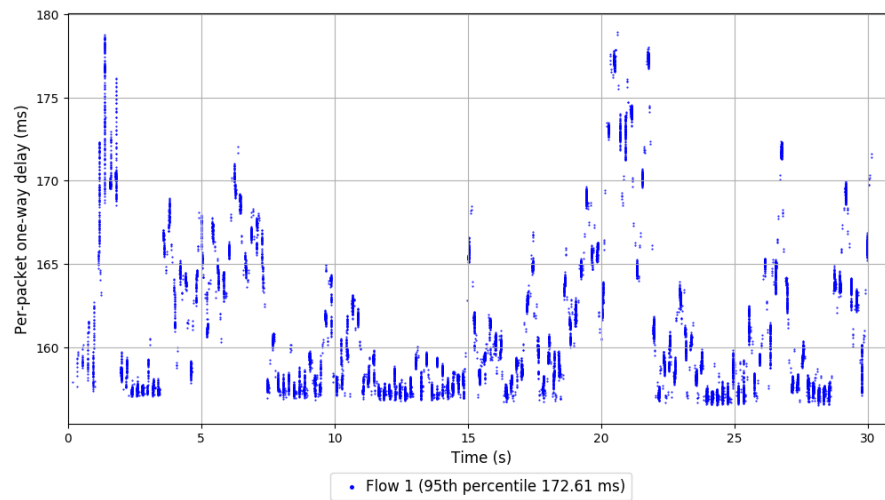
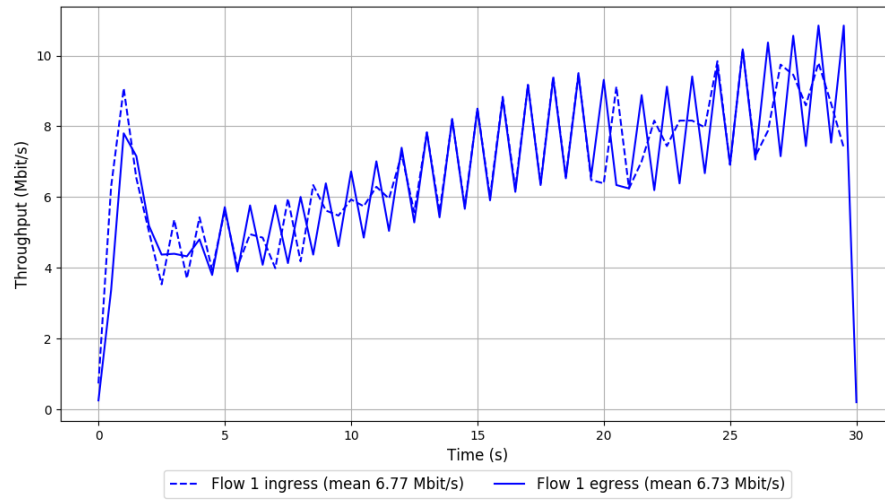
-- Flow 1:

Average throughput: 6.73 Mbit/s

95th percentile per-packet one-way delay: 172.613 ms

Loss rate: 0.55%

Run 4: Report of TCP Vegas — Data Link

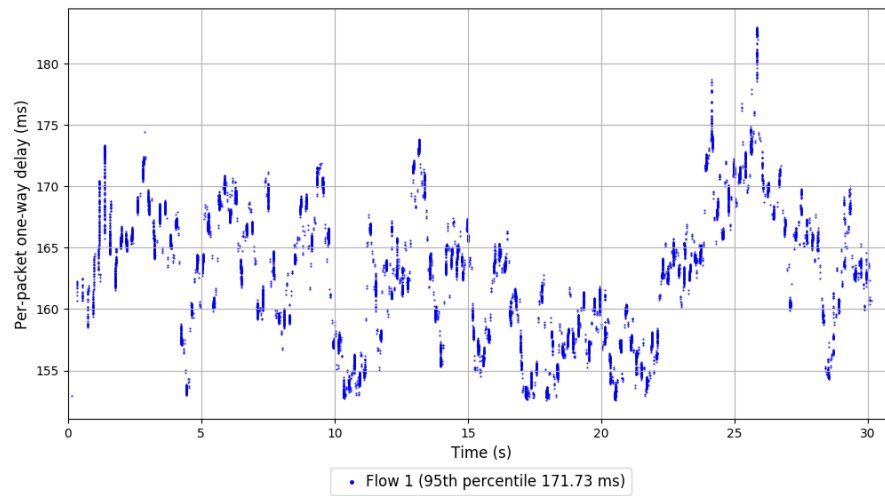
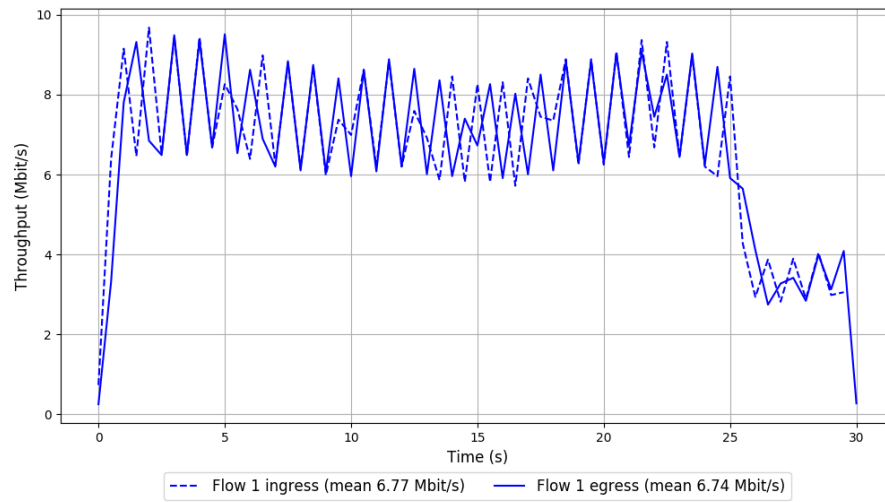


Run 5: Statistics of TCP Vegas

Start at: 2018-04-17 06:25:05
End at: 2018-04-17 06:25:35
Local clock offset: 8.417 ms
Remote clock offset: -10.706 ms

Below is generated by plot.py at 2018-04-17 09:01:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.74 Mbit/s
95th percentile per-packet one-way delay: 171.730 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 6.74 Mbit/s
95th percentile per-packet one-way delay: 171.730 ms
Loss rate: 0.43%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-04-17 06:51:57

End at: 2018-04-17 06:52:27

Local clock offset: -0.377 ms

Remote clock offset: 6.371 ms

Below is generated by plot.py at 2018-04-17 09:01:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.97 Mbit/s

95th percentile per-packet one-way delay: 156.876 ms

Loss rate: 0.14%

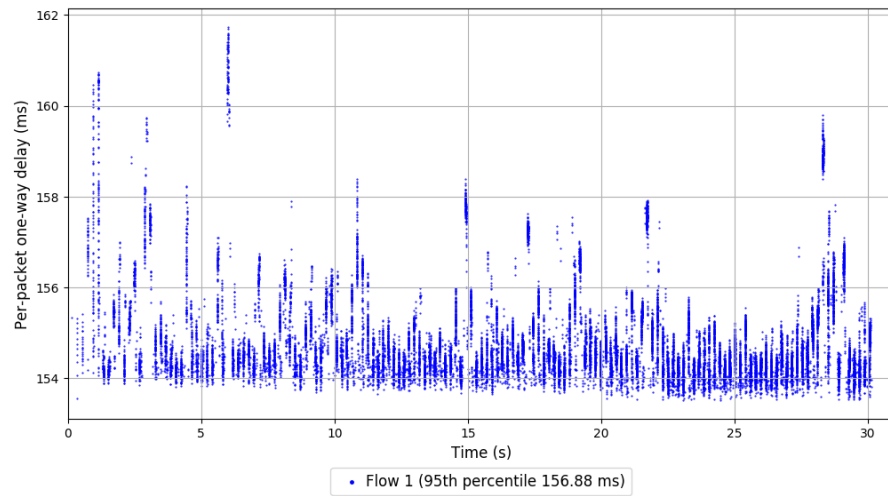
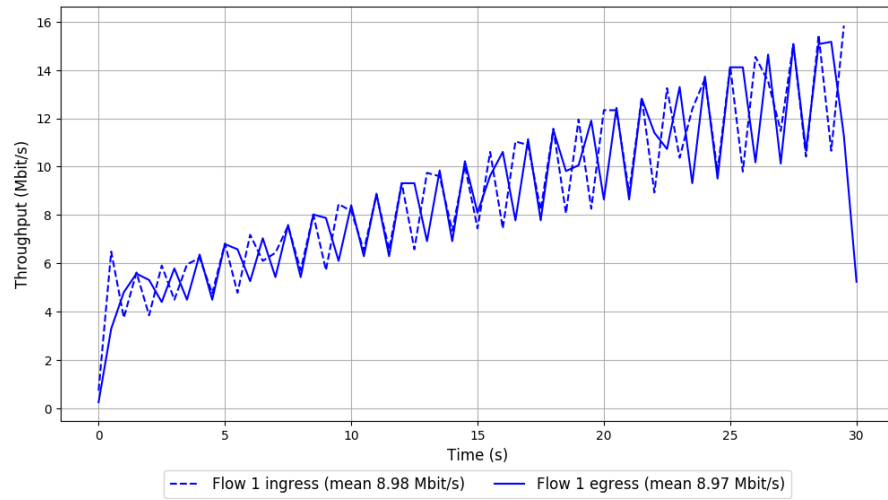
-- Flow 1:

Average throughput: 8.97 Mbit/s

95th percentile per-packet one-way delay: 156.876 ms

Loss rate: 0.14%

Run 6: Report of TCP Vegas — Data Link

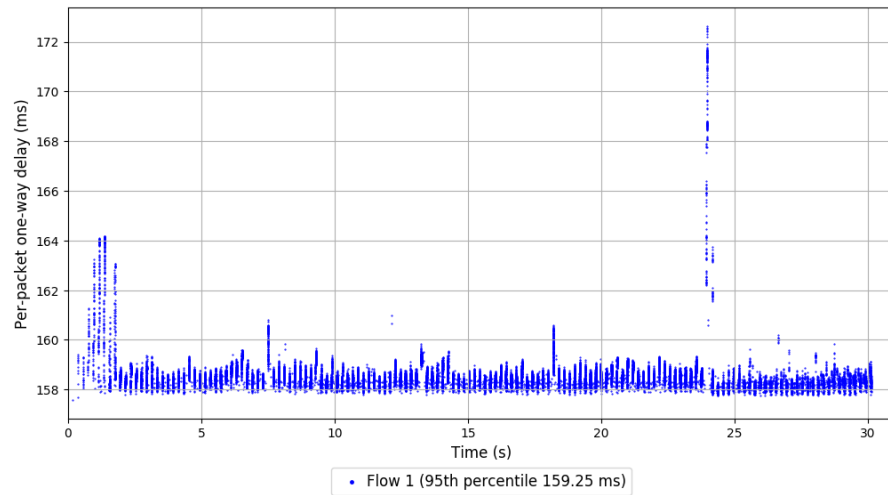
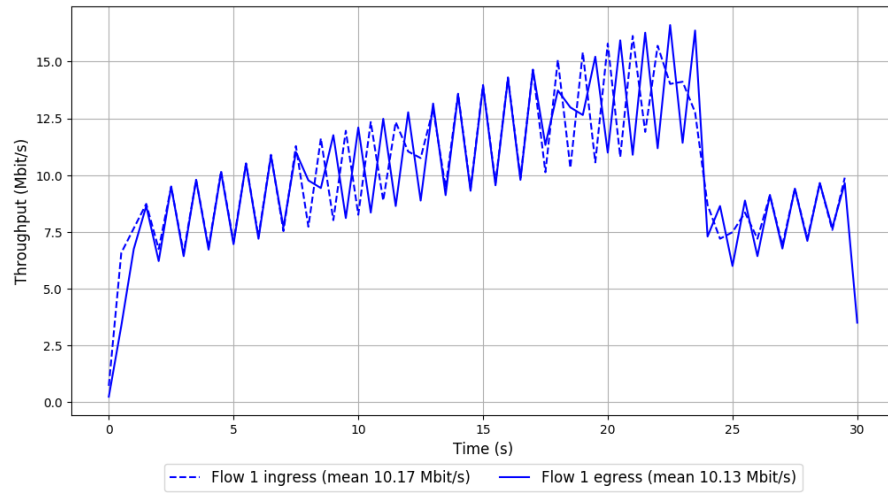


Run 7: Statistics of TCP Vegas

Start at: 2018-04-17 07:13:53
End at: 2018-04-17 07:14:23
Local clock offset: 2.936 ms
Remote clock offset: -2.442 ms

Below is generated by plot.py at 2018-04-17 09:01:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 10.13 Mbit/s
95th percentile per-packet one-way delay: 159.247 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 10.13 Mbit/s
95th percentile per-packet one-way delay: 159.247 ms
Loss rate: 0.44%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-17 07:35:12

End at: 2018-04-17 07:35:42

Local clock offset: 7.298 ms

Remote clock offset: 7.305 ms

Below is generated by plot.py at 2018-04-17 09:01:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 159.985 ms

Loss rate: 0.83%

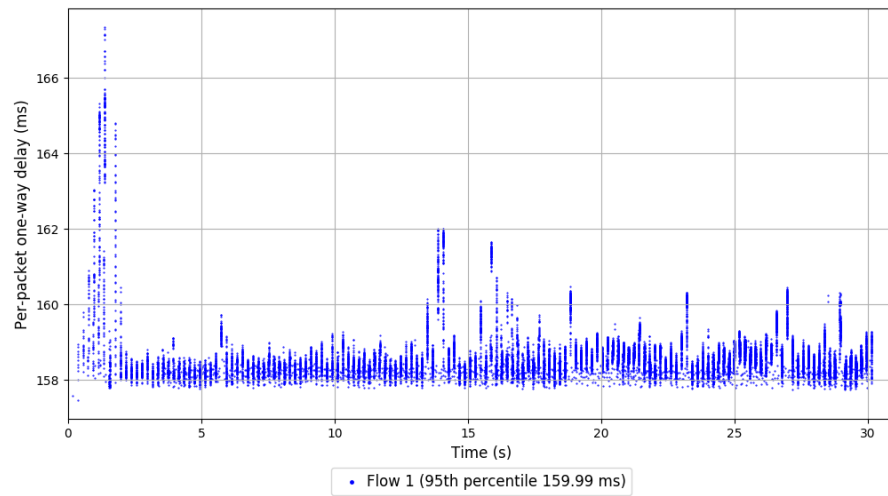
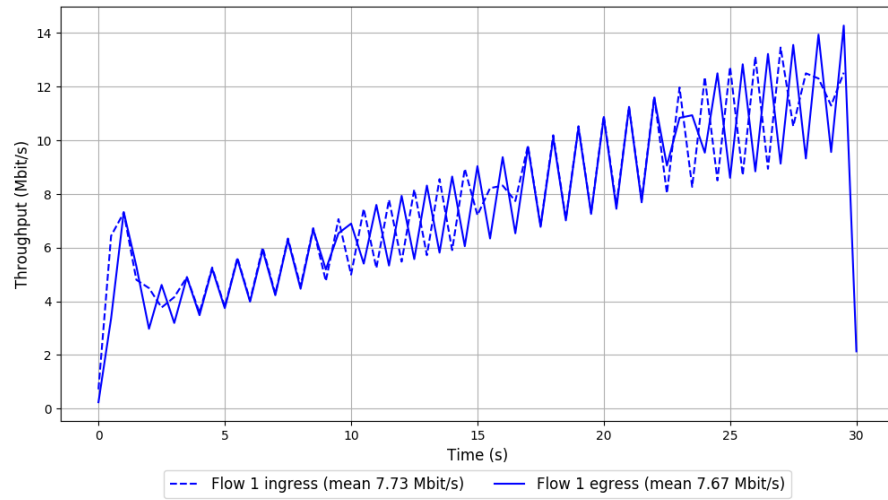
-- Flow 1:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 159.985 ms

Loss rate: 0.83%

Run 8: Report of TCP Vegas — Data Link

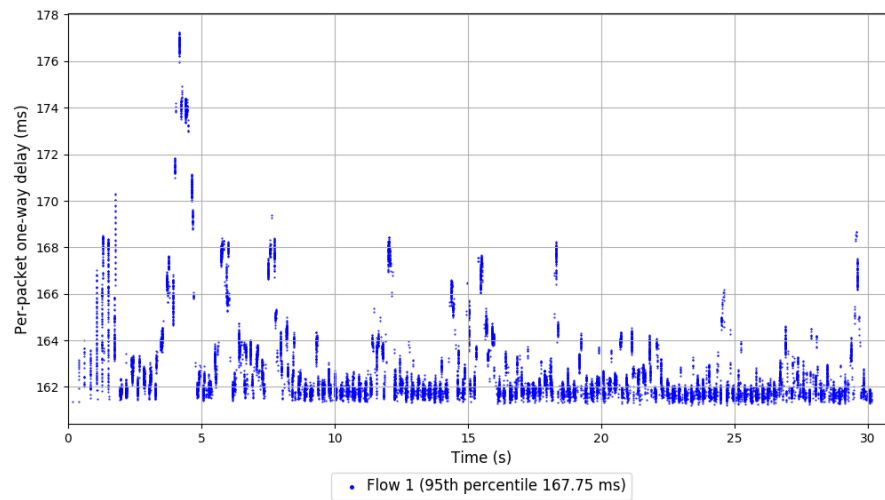
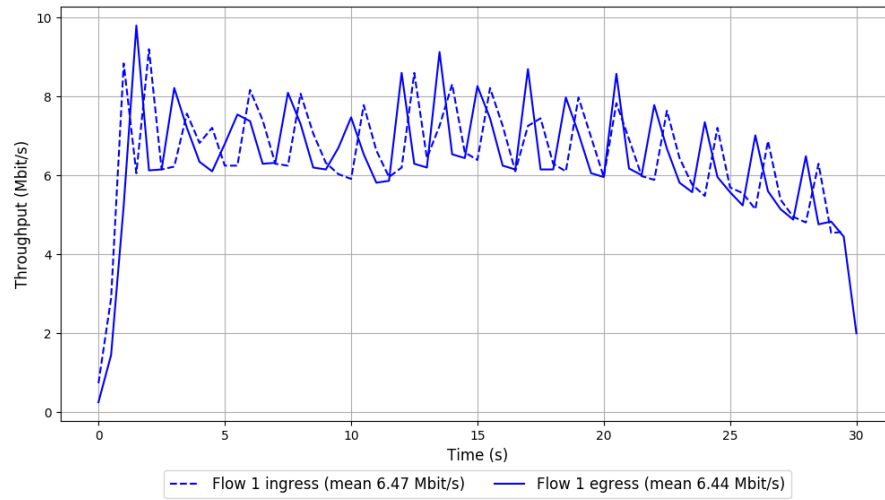


Run 9: Statistics of TCP Vegas

Start at: 2018-04-17 07:57:05
End at: 2018-04-17 07:57:35
Local clock offset: 6.611 ms
Remote clock offset: 20.167 ms

Below is generated by plot.py at 2018-04-17 09:01:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.44 Mbit/s
95th percentile per-packet one-way delay: 167.755 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 6.44 Mbit/s
95th percentile per-packet one-way delay: 167.755 ms
Loss rate: 0.46%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-17 08:19:30

End at: 2018-04-17 08:20:00

Local clock offset: 3.914 ms

Remote clock offset: 3.046 ms

Below is generated by plot.py at 2018-04-17 09:01:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.07 Mbit/s

95th percentile per-packet one-way delay: 163.616 ms

Loss rate: 0.29%

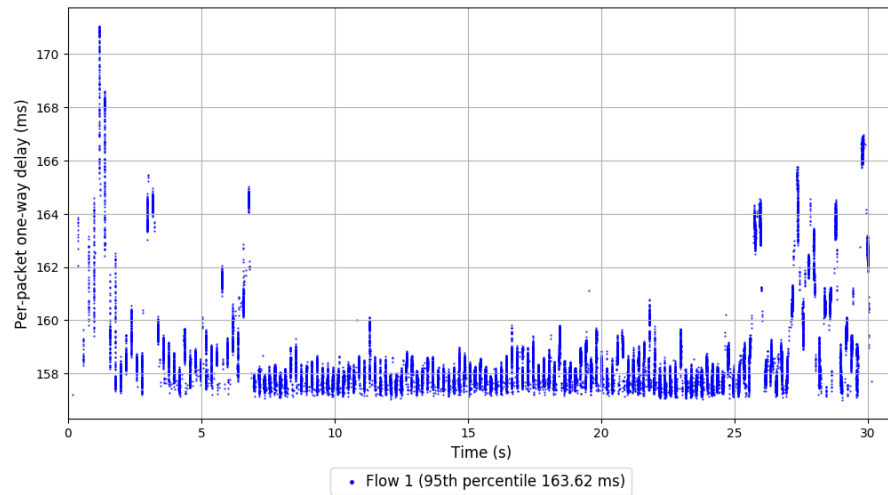
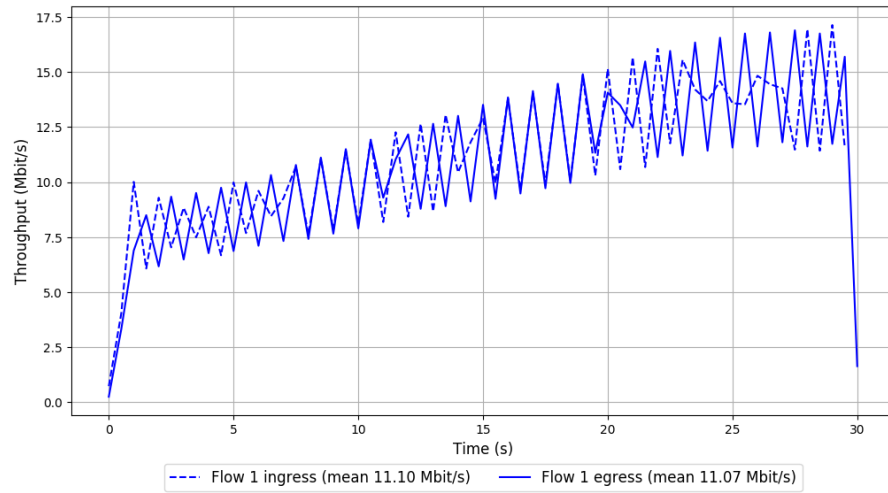
-- Flow 1:

Average throughput: 11.07 Mbit/s

95th percentile per-packet one-way delay: 163.616 ms

Loss rate: 0.29%

Run 10: Report of TCP Vegas — Data Link

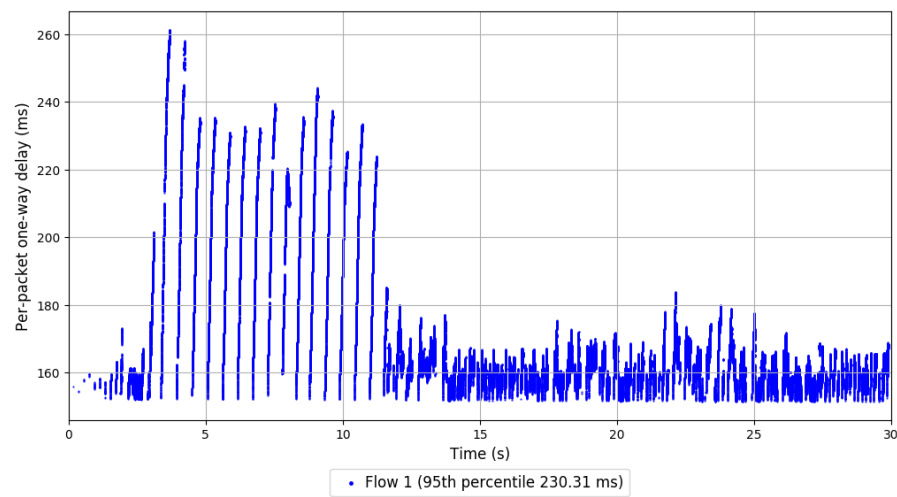
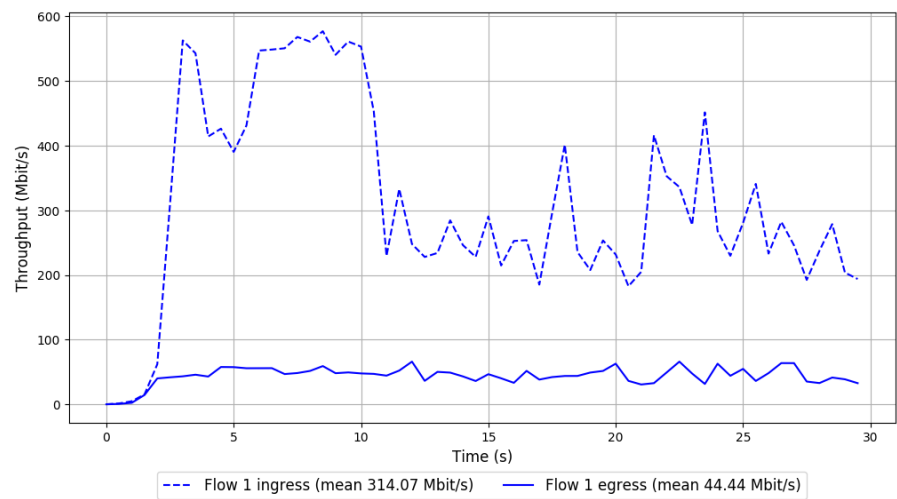


Run 1: Statistics of Verus

Start at: 2018-04-17 05:16:17
End at: 2018-04-17 05:16:47
Local clock offset: 3.449 ms
Remote clock offset: -10.319 ms

Below is generated by plot.py at 2018-04-17 09:02:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 44.44 Mbit/s
95th percentile per-packet one-way delay: 230.307 ms
Loss rate: 85.85%
-- Flow 1:
Average throughput: 44.44 Mbit/s
95th percentile per-packet one-way delay: 230.307 ms
Loss rate: 85.85%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-04-17 05:37:30

End at: 2018-04-17 05:38:00

Local clock offset: 9.848 ms

Remote clock offset: 7.022 ms

Below is generated by plot.py at 2018-04-17 09:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.47 Mbit/s

95th percentile per-packet one-way delay: 235.872 ms

Loss rate: 87.95%

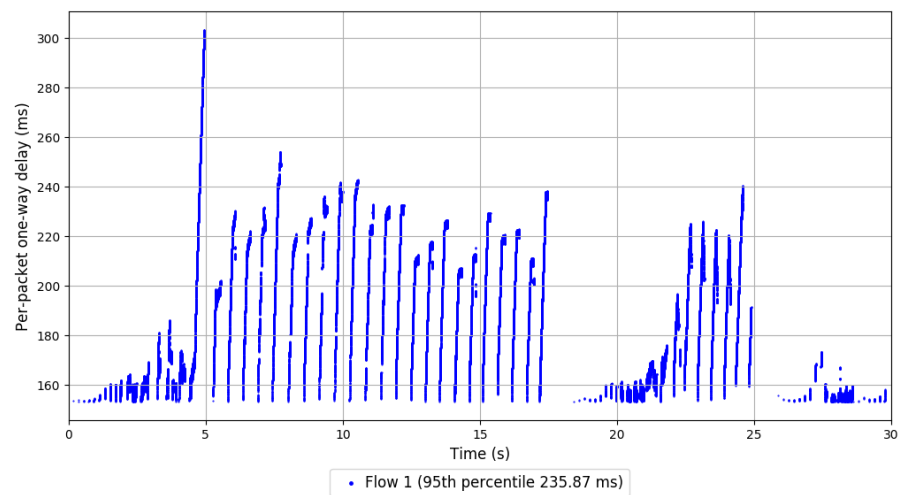
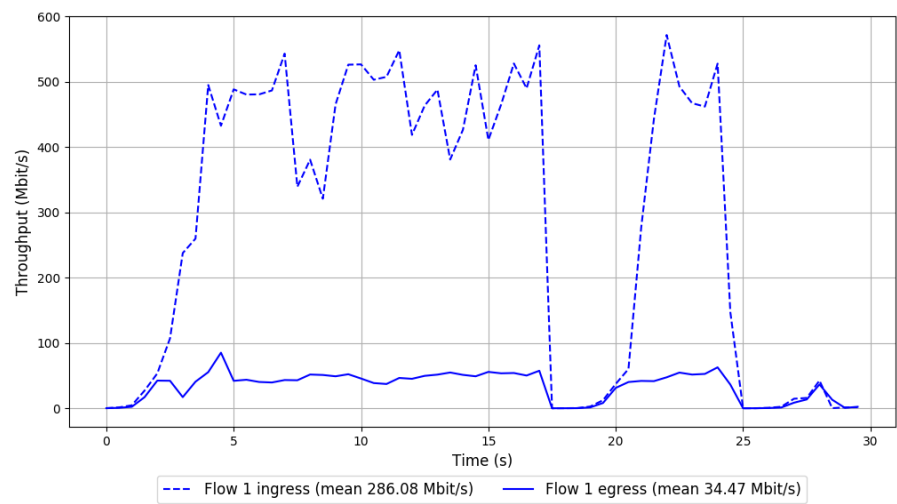
-- Flow 1:

Average throughput: 34.47 Mbit/s

95th percentile per-packet one-way delay: 235.872 ms

Loss rate: 87.95%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-17 05:58:47

End at: 2018-04-17 05:59:17

Local clock offset: 13.724 ms

Remote clock offset: 2.729 ms

Below is generated by plot.py at 2018-04-17 09:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.89 Mbit/s

95th percentile per-packet one-way delay: 227.108 ms

Loss rate: 66.13%

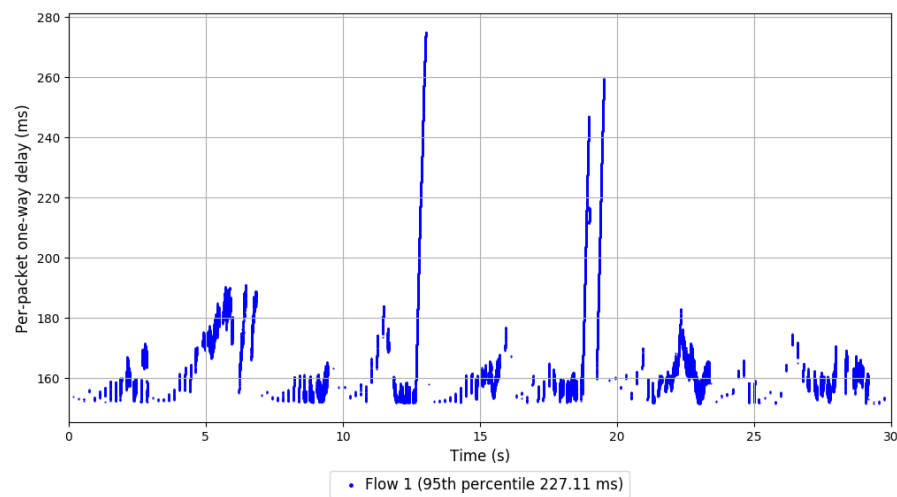
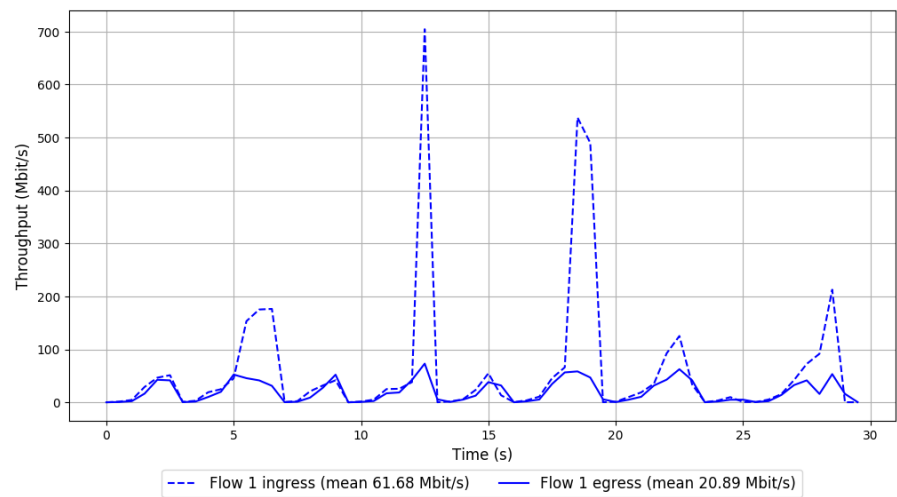
-- Flow 1:

Average throughput: 20.89 Mbit/s

95th percentile per-packet one-way delay: 227.108 ms

Loss rate: 66.13%

Run 3: Report of Verus — Data Link

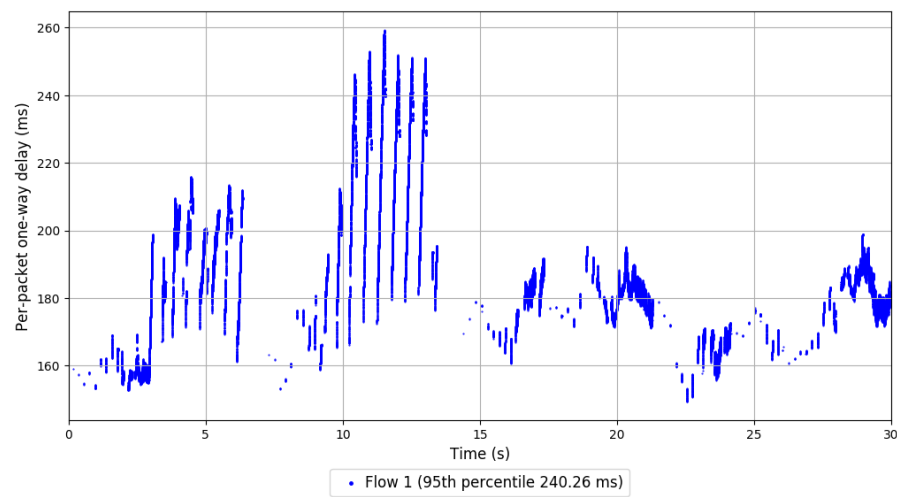
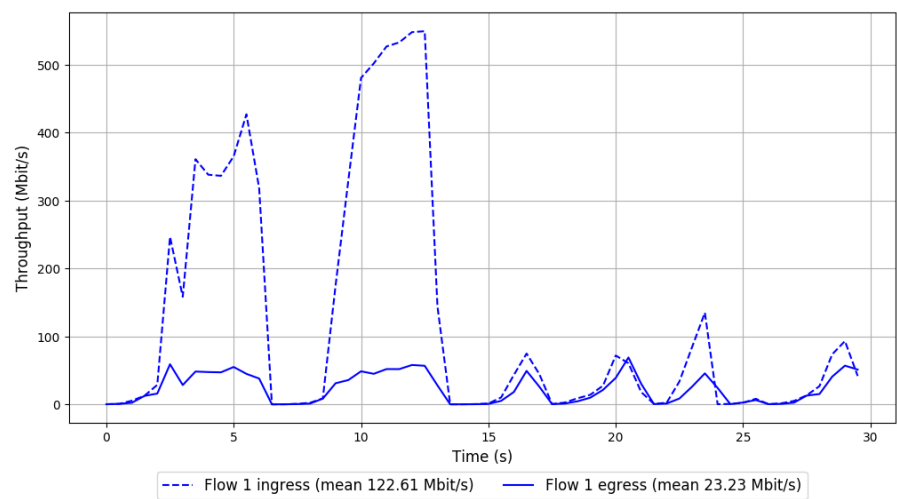


Run 4: Statistics of Verus

Start at: 2018-04-17 06:19:59
End at: 2018-04-17 06:20:29
Local clock offset: 8.432 ms
Remote clock offset: -15.638 ms

Below is generated by plot.py at 2018-04-17 09:02:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 23.23 Mbit/s
95th percentile per-packet one-way delay: 240.264 ms
Loss rate: 81.03%
-- Flow 1:
Average throughput: 23.23 Mbit/s
95th percentile per-packet one-way delay: 240.264 ms
Loss rate: 81.03%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-17 06:46:47

End at: 2018-04-17 06:47:17

Local clock offset: 0.872 ms

Remote clock offset: 2.543 ms

Below is generated by plot.py at 2018-04-17 09:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.13 Mbit/s

95th percentile per-packet one-way delay: 230.129 ms

Loss rate: 85.10%

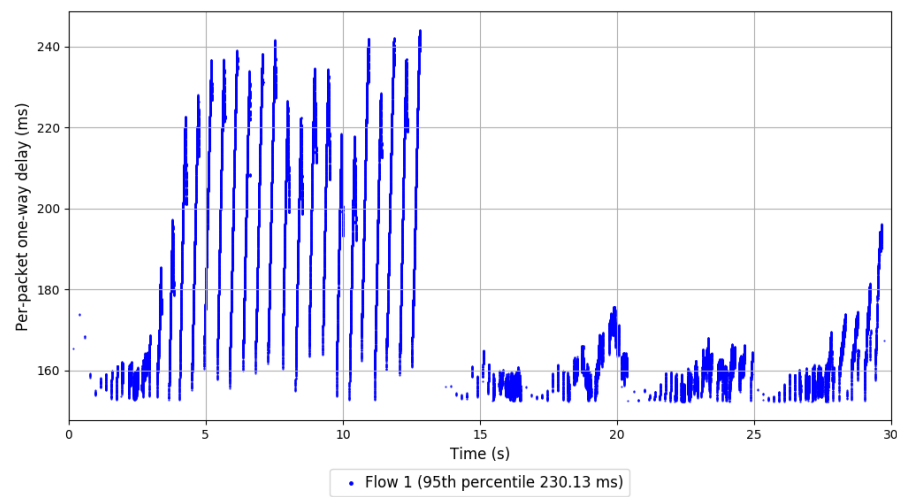
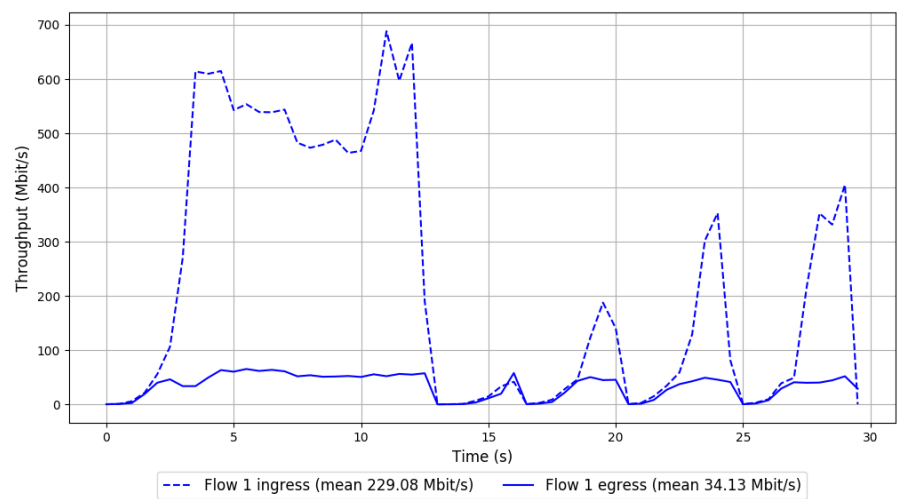
-- Flow 1:

Average throughput: 34.13 Mbit/s

95th percentile per-packet one-way delay: 230.129 ms

Loss rate: 85.10%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

/home/ubuntu/pantheon_data/2018-04-17T04-55-AWS-Korea-to-China-10-runs/verus_stats_run6.log

Run 6: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of Verus

Start at: 2018-04-17 07:30:03

End at: 2018-04-17 07:30:33

Local clock offset: 6.679 ms

Remote clock offset: 6.523 ms

Below is generated by plot.py at 2018-04-17 09:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.31 Mbit/s

95th percentile per-packet one-way delay: 221.922 ms

Loss rate: 85.67%

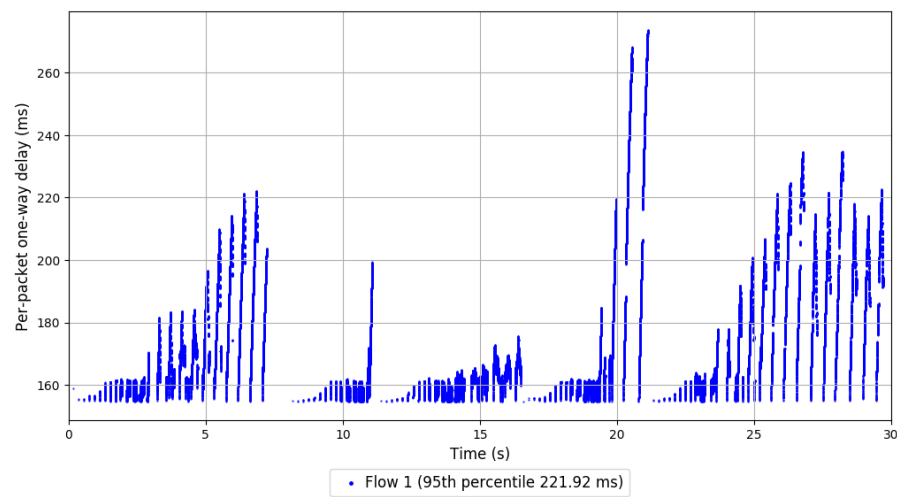
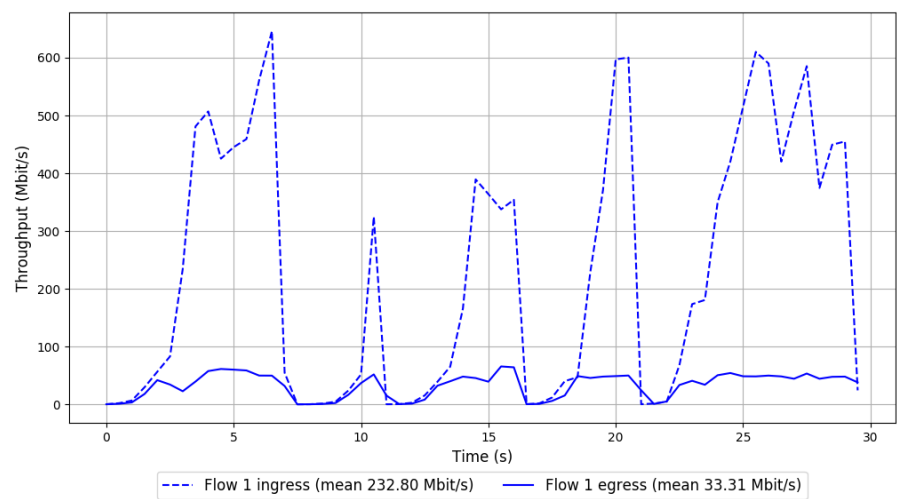
-- Flow 1:

Average throughput: 33.31 Mbit/s

95th percentile per-packet one-way delay: 221.922 ms

Loss rate: 85.67%

Run 7: Report of Verus — Data Link

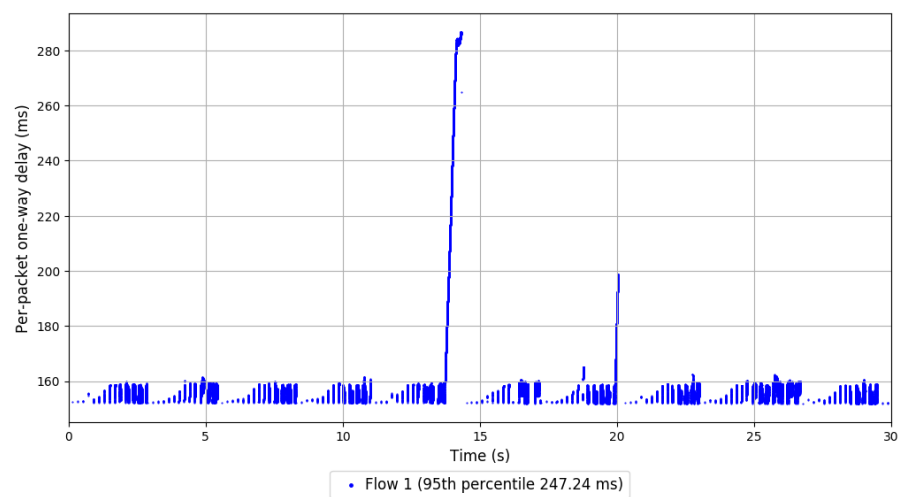
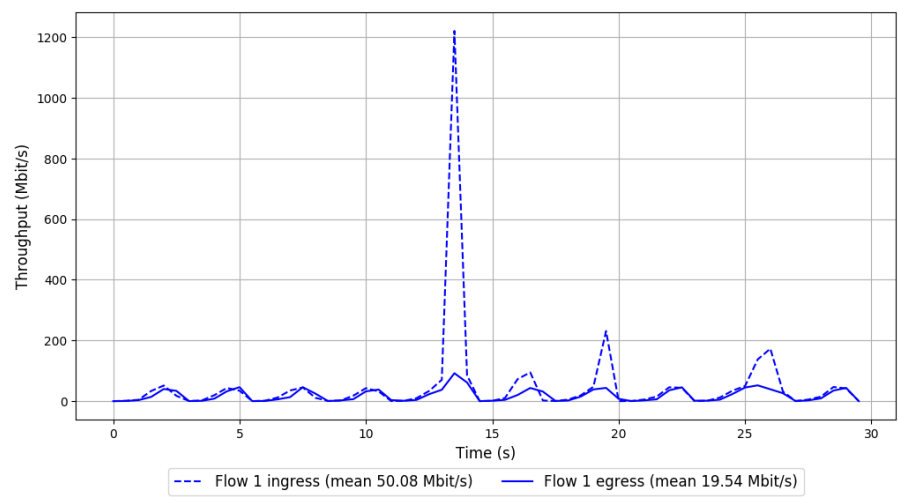


Run 8: Statistics of Verus

Start at: 2018-04-17 07:51:59
End at: 2018-04-17 07:52:29
Local clock offset: 6.643 ms
Remote clock offset: 13.203 ms

Below is generated by plot.py at 2018-04-17 09:02:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 19.54 Mbit/s
95th percentile per-packet one-way delay: 247.236 ms
Loss rate: 60.99%
-- Flow 1:
Average throughput: 19.54 Mbit/s
95th percentile per-packet one-way delay: 247.236 ms
Loss rate: 60.99%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-04-17 08:14:25

End at: 2018-04-17 08:14:55

Local clock offset: 6.411 ms

Remote clock offset: 5.631 ms

Below is generated by plot.py at 2018-04-17 09:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.76 Mbit/s

95th percentile per-packet one-way delay: 206.654 ms

Loss rate: 69.90%

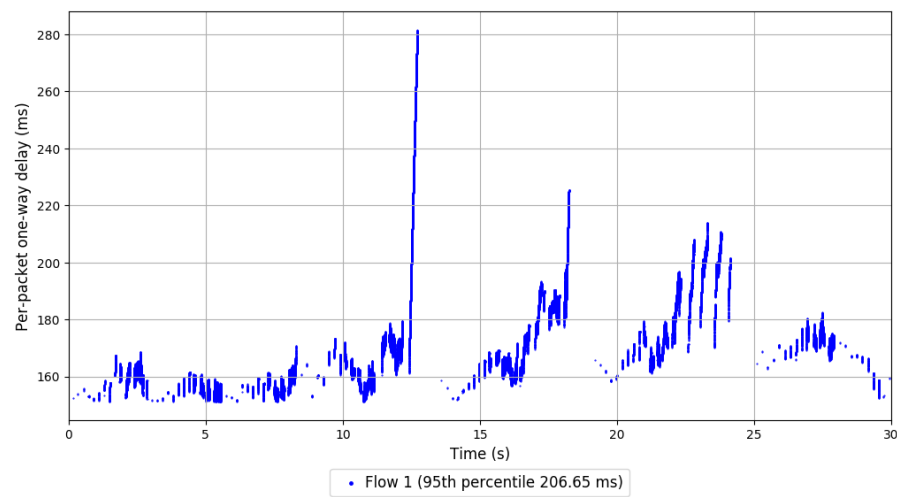
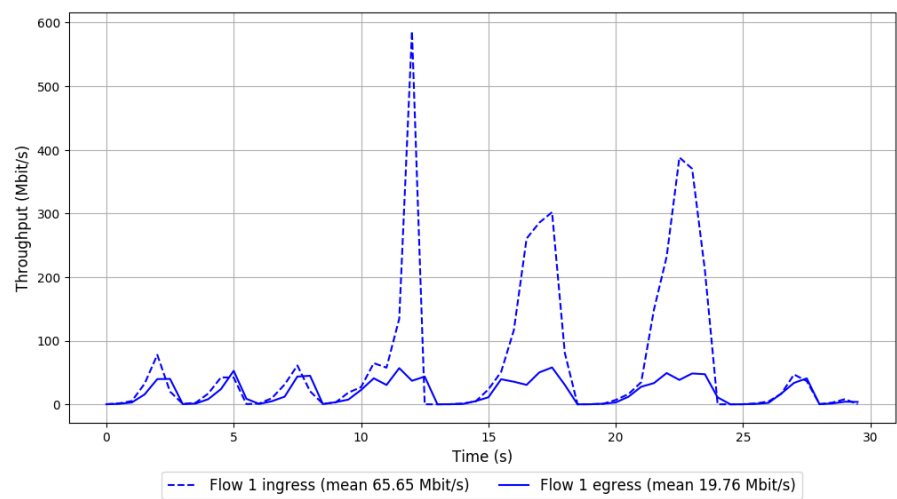
-- Flow 1:

Average throughput: 19.76 Mbit/s

95th percentile per-packet one-way delay: 206.654 ms

Loss rate: 69.90%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-04-17 08:35:16

End at: 2018-04-17 08:35:47

Local clock offset: 0.059 ms

Remote clock offset: 1.114 ms

Below is generated by plot.py at 2018-04-17 09:03:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.34 Mbit/s

95th percentile per-packet one-way delay: 237.739 ms

Loss rate: 86.92%

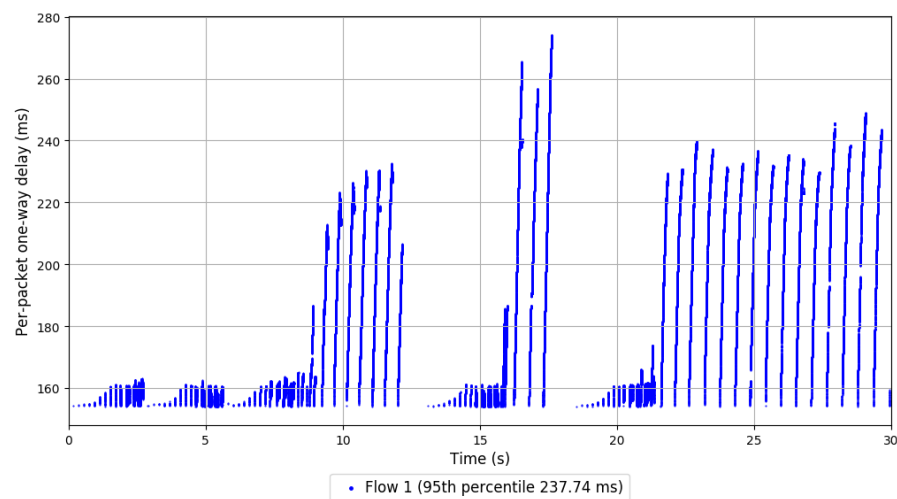
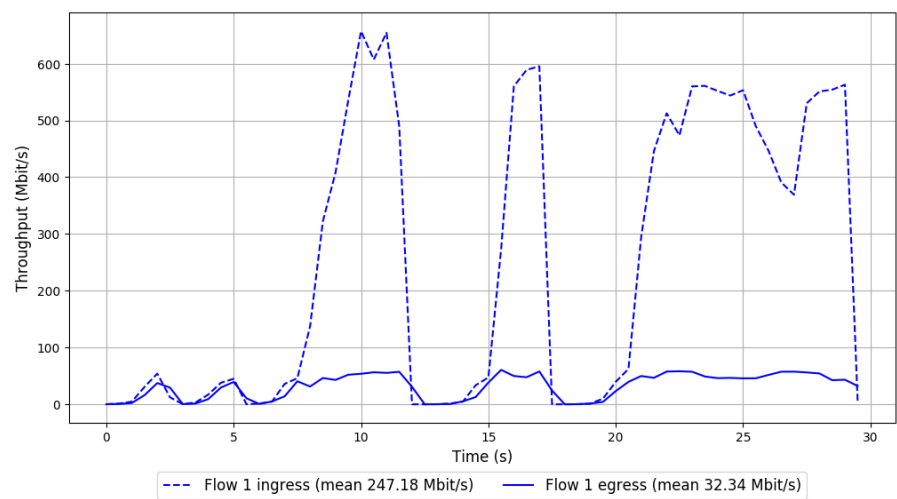
-- Flow 1:

Average throughput: 32.34 Mbit/s

95th percentile per-packet one-way delay: 237.739 ms

Loss rate: 86.92%

Run 10: Report of Verus — Data Link

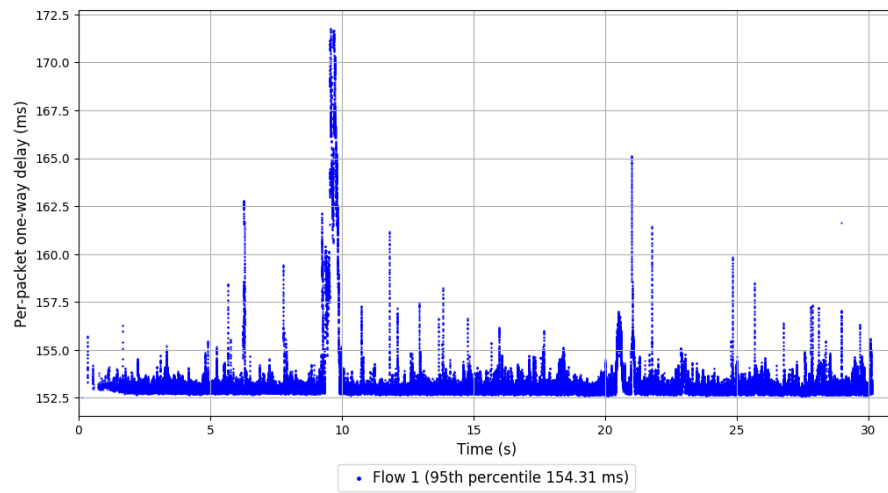
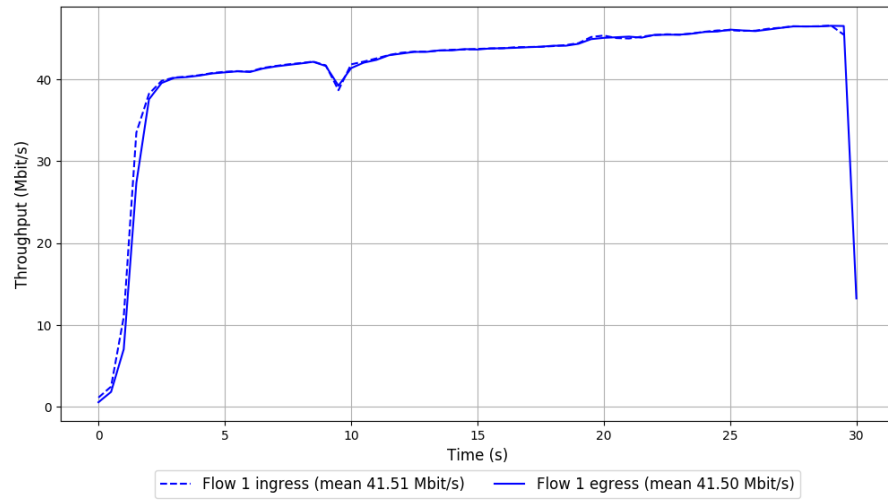


Run 1: Statistics of Copa

Start at: 2018-04-17 05:05:12
End at: 2018-04-17 05:05:42
Local clock offset: 4.918 ms
Remote clock offset: -13.933 ms

Below is generated by plot.py at 2018-04-17 09:03:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 41.50 Mbit/s
95th percentile per-packet one-way delay: 154.315 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.50 Mbit/s
95th percentile per-packet one-way delay: 154.315 ms
Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-04-17 05:26:22

End at: 2018-04-17 05:26:52

Local clock offset: 4.254 ms

Remote clock offset: 2.626 ms

Below is generated by plot.py at 2018-04-17 09:03:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.13 Mbit/s

95th percentile per-packet one-way delay: 159.152 ms

Loss rate: 0.01%

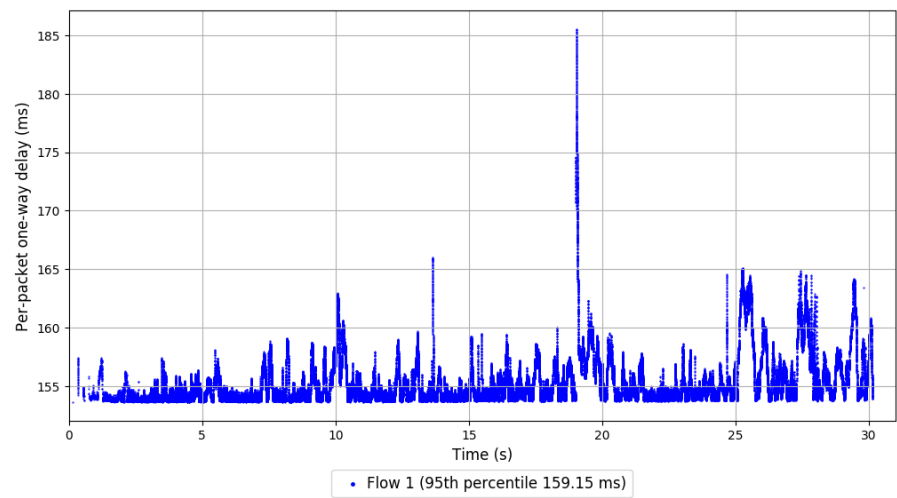
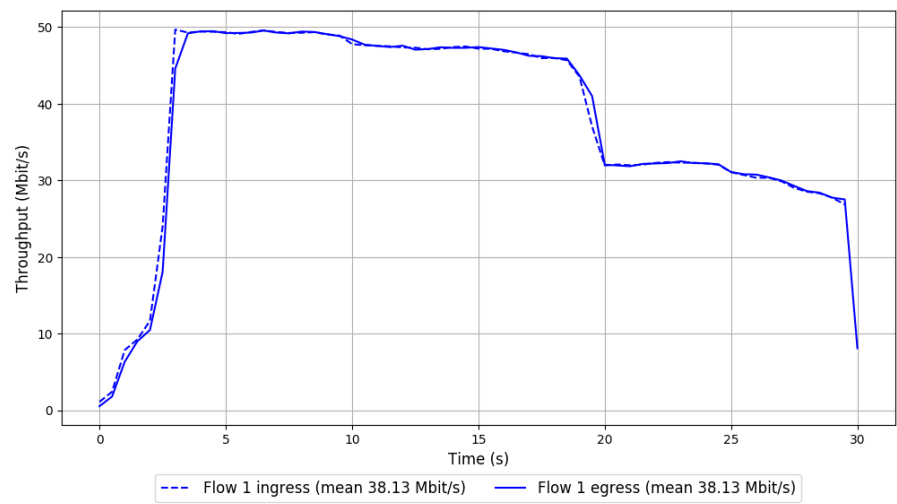
-- Flow 1:

Average throughput: 38.13 Mbit/s

95th percentile per-packet one-way delay: 159.152 ms

Loss rate: 0.01%

Run 2: Report of Copa — Data Link

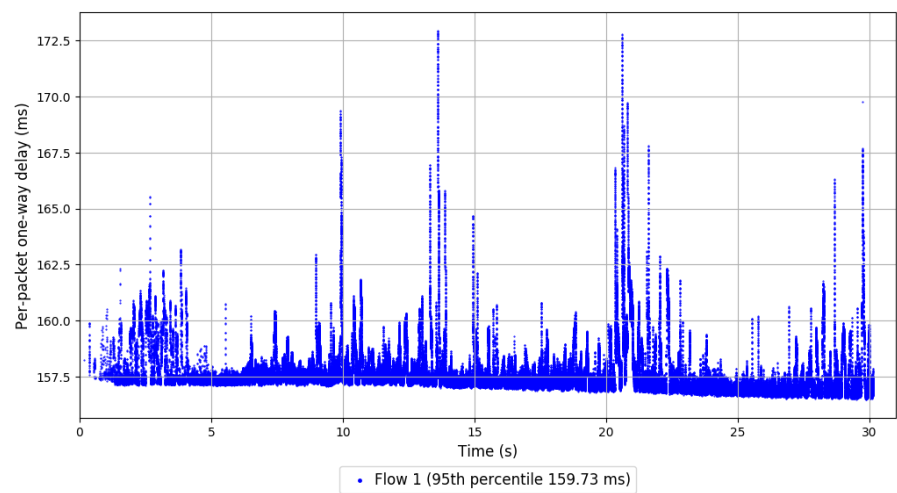
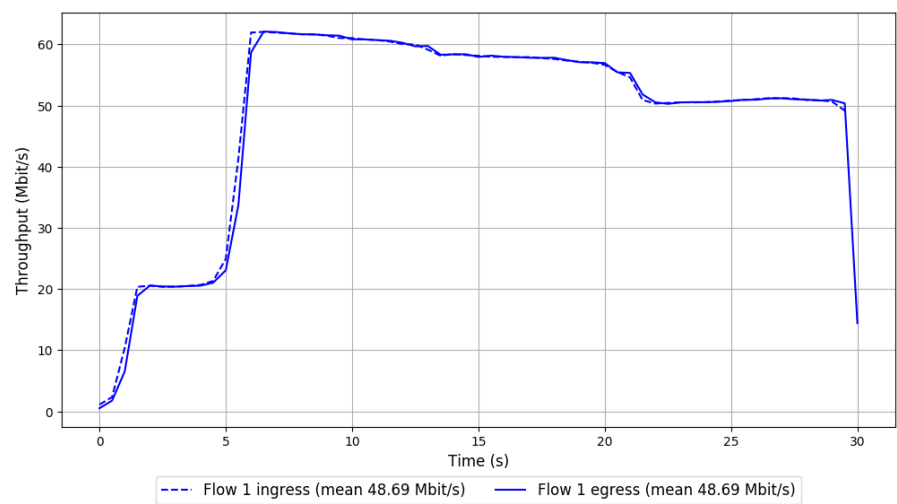


Run 3: Statistics of Copa

Start at: 2018-04-17 05:47:36
End at: 2018-04-17 05:48:06
Local clock offset: 12.049 ms
Remote clock offset: -14.138 ms

Below is generated by plot.py at 2018-04-17 09:03:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 48.69 Mbit/s
95th percentile per-packet one-way delay: 159.734 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 48.69 Mbit/s
95th percentile per-packet one-way delay: 159.734 ms
Loss rate: 0.02%

Run 3: Report of Copa — Data Link

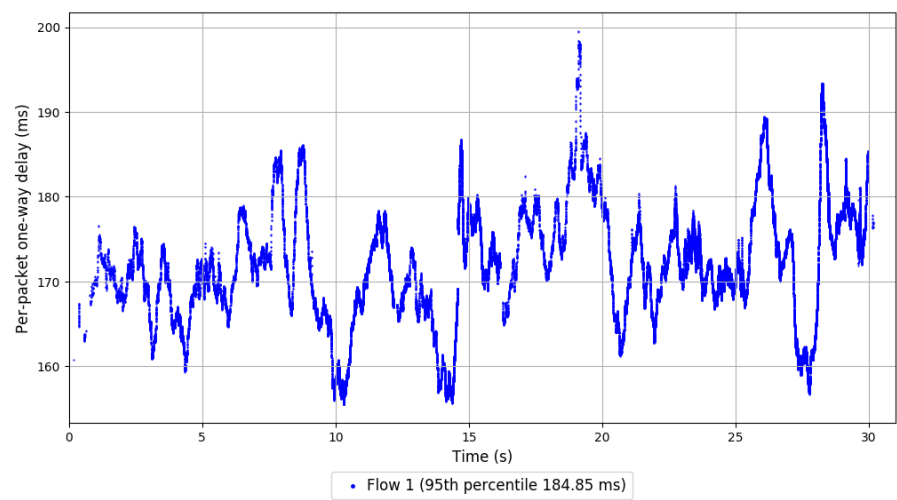
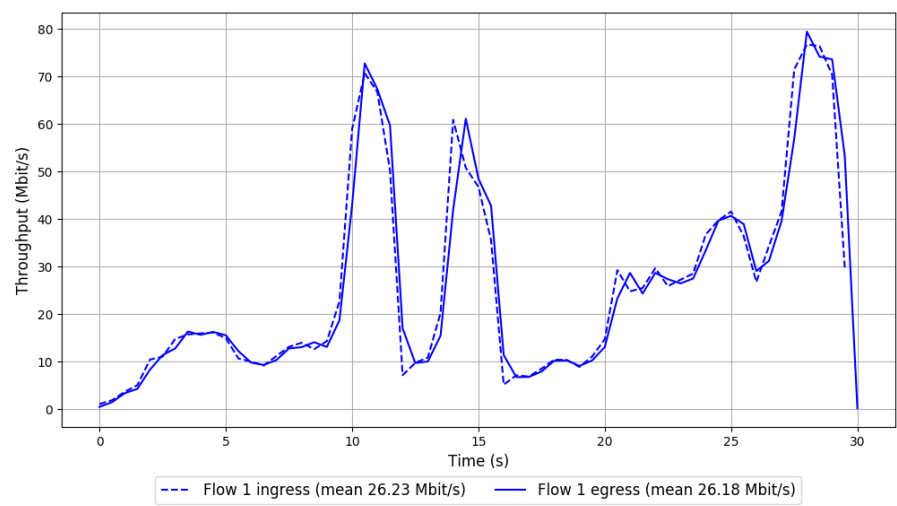


Run 4: Statistics of Copa

Start at: 2018-04-17 06:08:48
End at: 2018-04-17 06:09:18
Local clock offset: 9.502 ms
Remote clock offset: -20.402 ms

Below is generated by plot.py at 2018-04-17 09:03:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 26.18 Mbit/s
95th percentile per-packet one-way delay: 184.851 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 26.18 Mbit/s
95th percentile per-packet one-way delay: 184.851 ms
Loss rate: 0.14%

Run 4: Report of Copa — Data Link

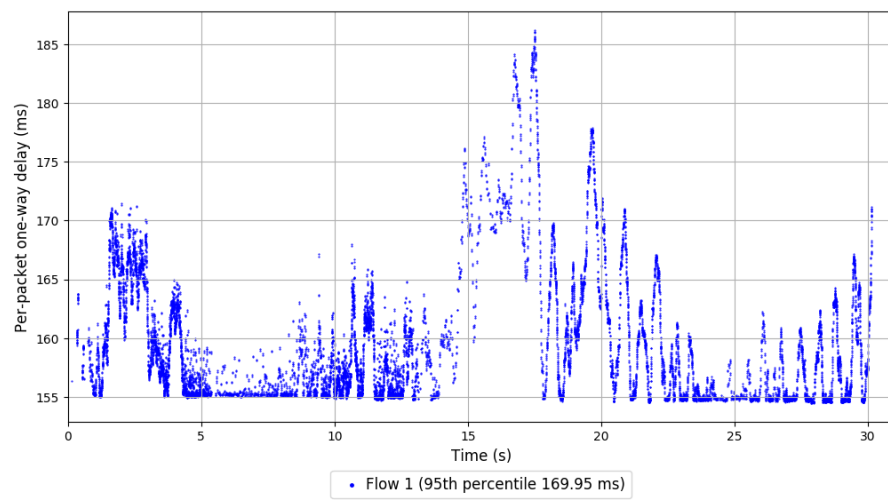
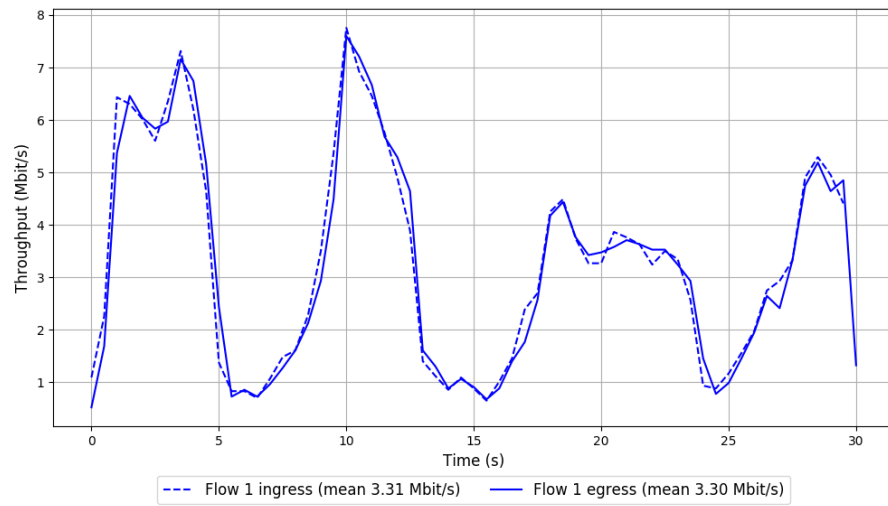


Run 5: Statistics of Copa

Start at: 2018-04-17 06:29:59
End at: 2018-04-17 06:30:29
Local clock offset: 8.574 ms
Remote clock offset: -4.713 ms

Below is generated by plot.py at 2018-04-17 09:03:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.30 Mbit/s
95th percentile per-packet one-way delay: 169.953 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 3.30 Mbit/s
95th percentile per-packet one-way delay: 169.953 ms
Loss rate: 0.05%

Run 5: Report of Copa — Data Link

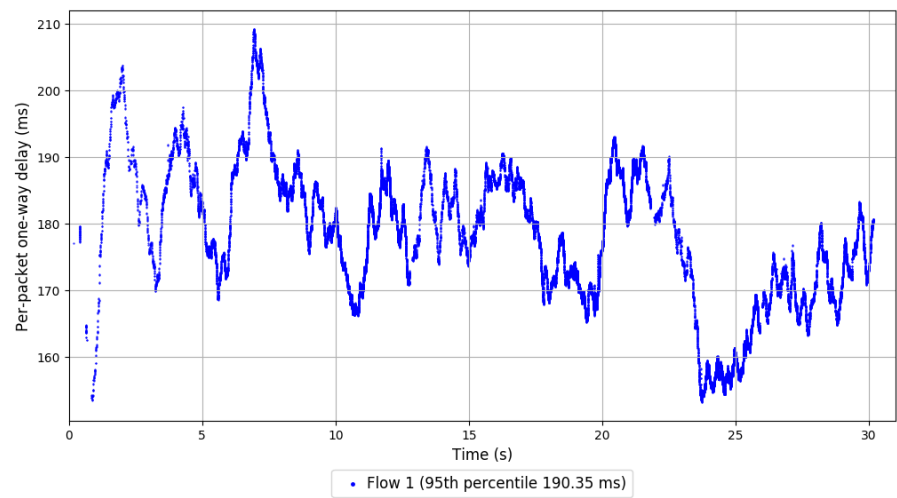
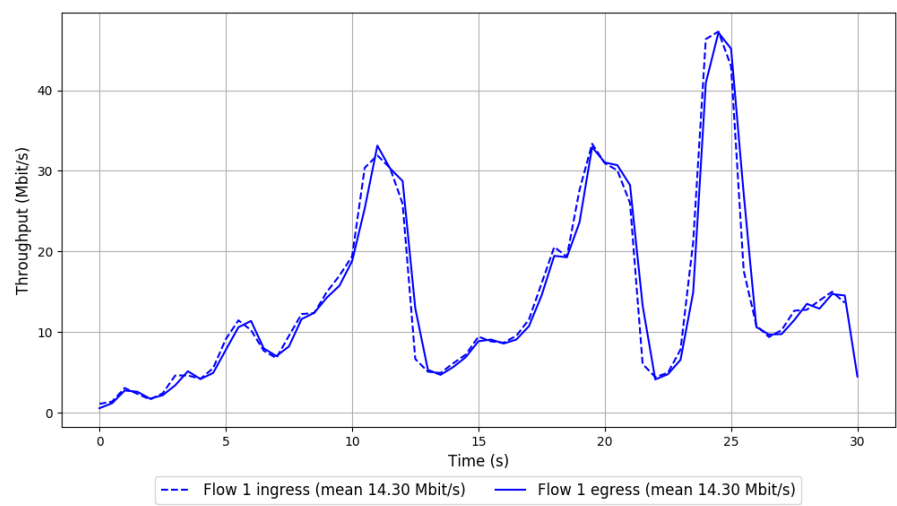


Run 6: Statistics of Copa

Start at: 2018-04-17 06:56:54
End at: 2018-04-17 06:57:24
Local clock offset: -1.353 ms
Remote clock offset: -8.221 ms

Below is generated by plot.py at 2018-04-17 09:03:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 14.30 Mbit/s
95th percentile per-packet one-way delay: 190.352 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 14.30 Mbit/s
95th percentile per-packet one-way delay: 190.352 ms
Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-04-17 07:18:48

End at: 2018-04-17 07:19:18

Local clock offset: 4.988 ms

Remote clock offset: 0.218 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.73 Mbit/s

95th percentile per-packet one-way delay: 155.688 ms

Loss rate: 0.01%

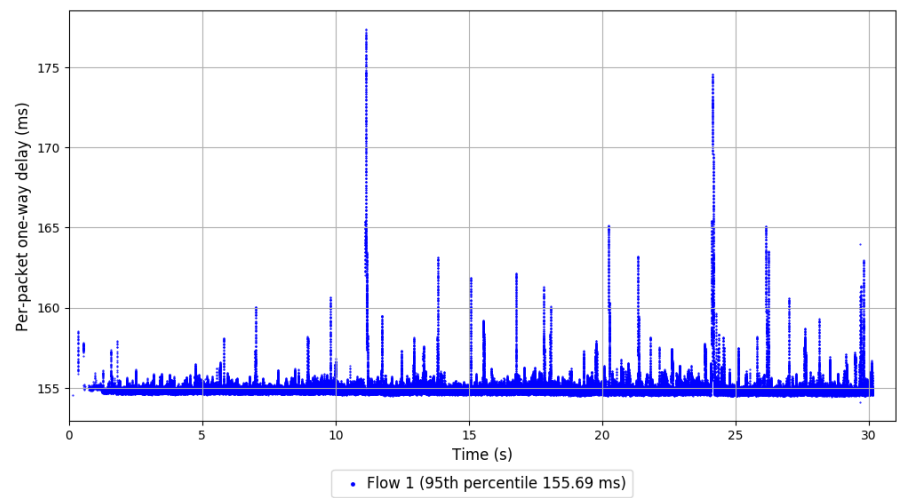
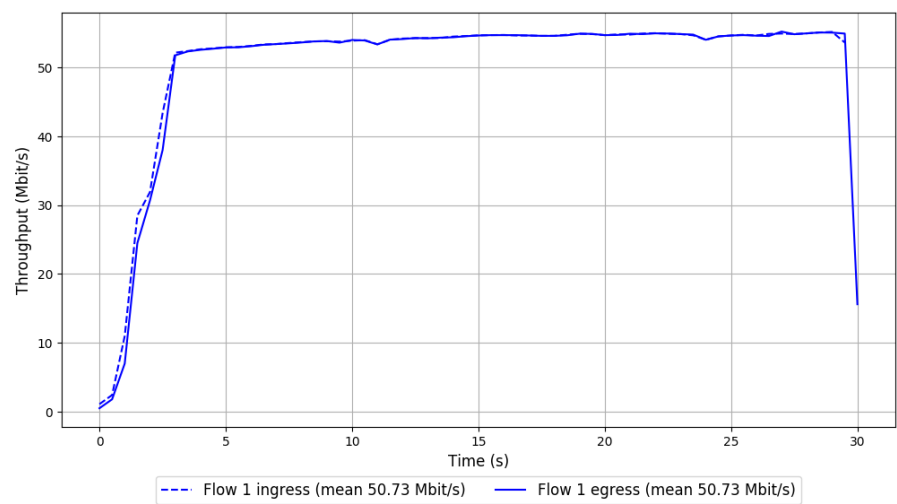
-- Flow 1:

Average throughput: 50.73 Mbit/s

95th percentile per-packet one-way delay: 155.688 ms

Loss rate: 0.01%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-17 07:40:41

End at: 2018-04-17 07:41:11

Local clock offset: 7.582 ms

Remote clock offset: 5.219 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.03 Mbit/s

95th percentile per-packet one-way delay: 166.742 ms

Loss rate: 0.09%

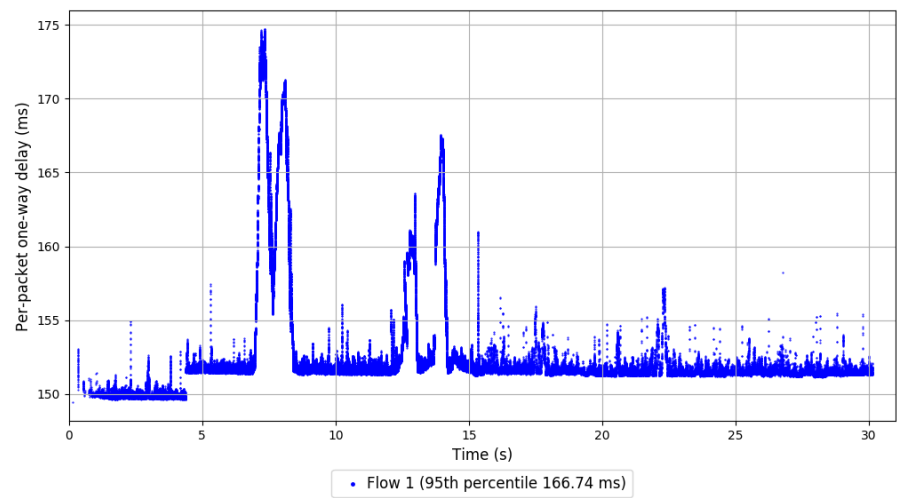
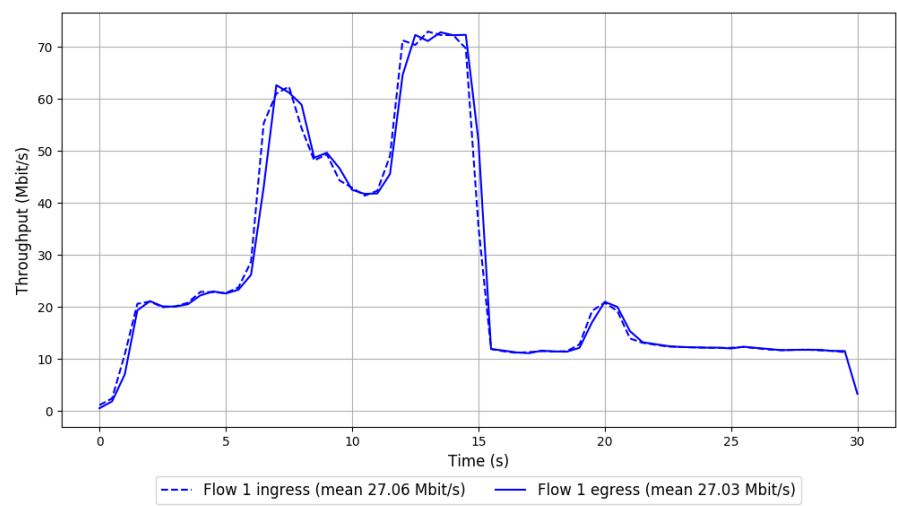
-- Flow 1:

Average throughput: 27.03 Mbit/s

95th percentile per-packet one-way delay: 166.742 ms

Loss rate: 0.09%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

/home/ubuntu/pantheon_data/2018-04-17T04-55-AWS-Korea-to-China-10-runs/copa_stats_run9.log c

Run 9: Report of Copa — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of Copa

Start at: 2018-04-17 08:24:26

End at: 2018-04-17 08:24:56

Local clock offset: 2.068 ms

Remote clock offset: 1.761 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.73 Mbit/s

95th percentile per-packet one-way delay: 156.899 ms

Loss rate: 0.01%

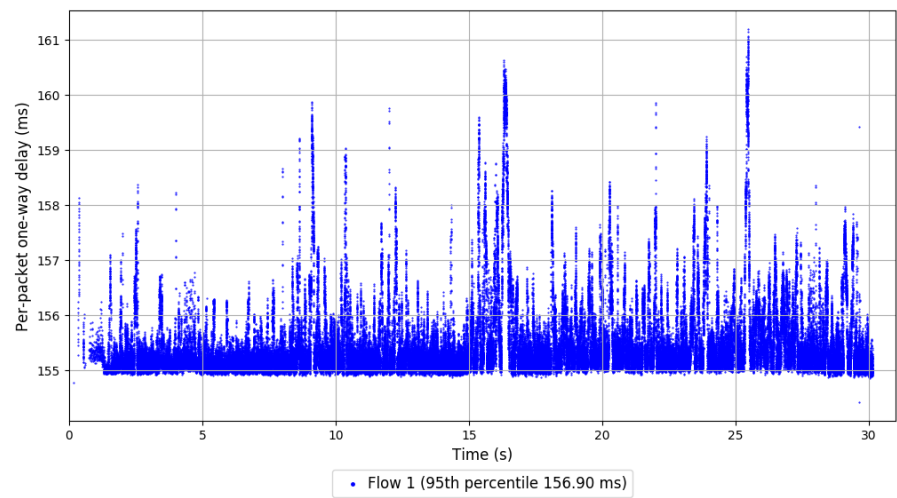
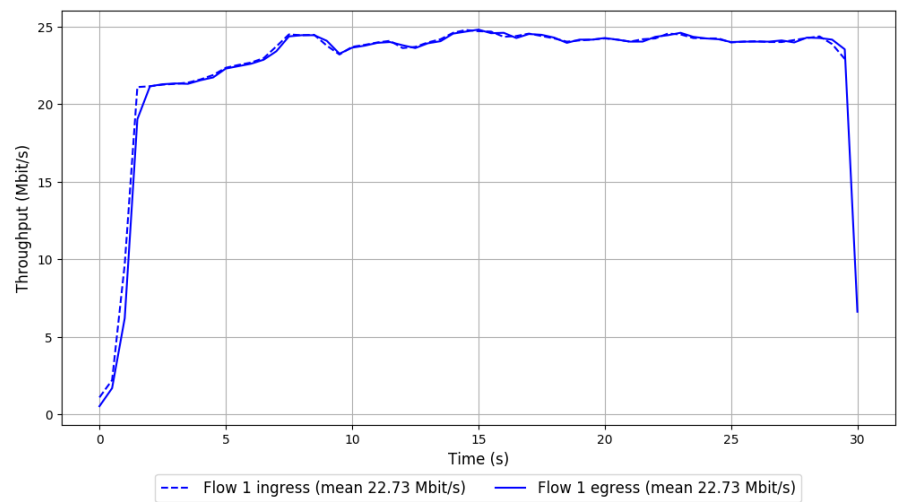
-- Flow 1:

Average throughput: 22.73 Mbit/s

95th percentile per-packet one-way delay: 156.899 ms

Loss rate: 0.01%

Run 10: Report of Copa — Data Link

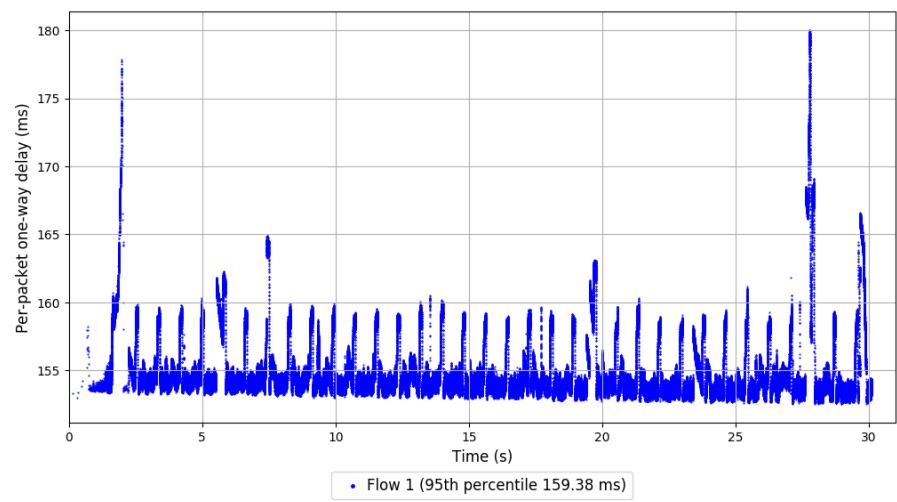
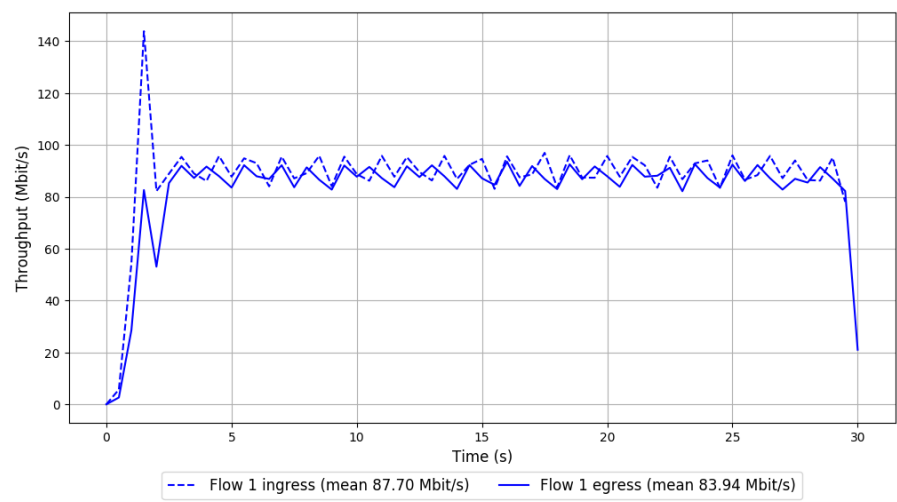


Run 1: Statistics of FillP

Start at: 2018-04-17 05:13:50
End at: 2018-04-17 05:14:20
Local clock offset: 3.357 ms
Remote clock offset: -14.261 ms

Below is generated by plot.py at 2018-04-17 09:04:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 83.94 Mbit/s
95th percentile per-packet one-way delay: 159.376 ms
Loss rate: 4.29%
-- Flow 1:
Average throughput: 83.94 Mbit/s
95th percentile per-packet one-way delay: 159.376 ms
Loss rate: 4.29%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-17 05:34:59

End at: 2018-04-17 05:35:29

Local clock offset: 8.952 ms

Remote clock offset: 6.248 ms

Below is generated by plot.py at 2018-04-17 09:04:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.09 Mbit/s

95th percentile per-packet one-way delay: 167.035 ms

Loss rate: 5.67%

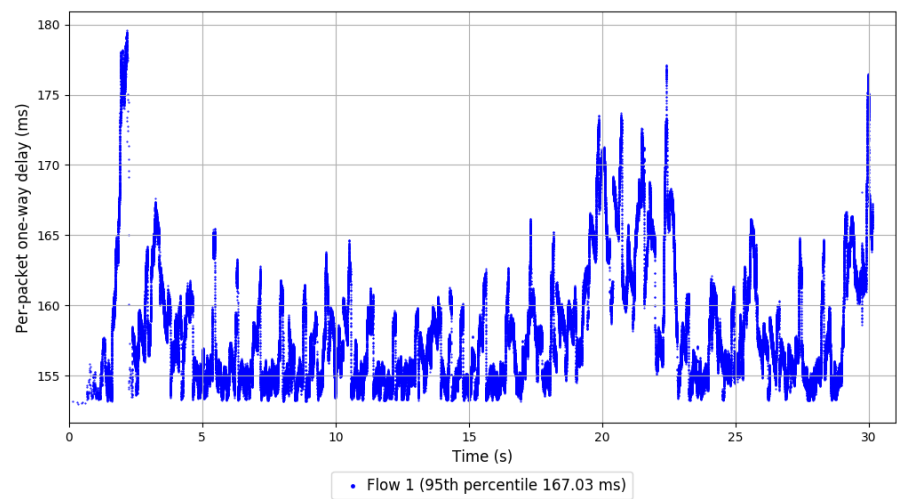
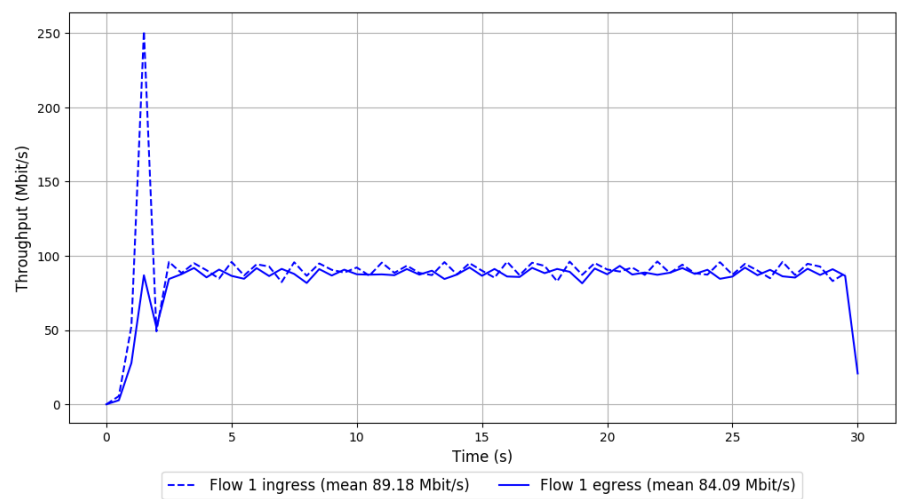
-- Flow 1:

Average throughput: 84.09 Mbit/s

95th percentile per-packet one-way delay: 167.035 ms

Loss rate: 5.67%

Run 2: Report of FillP — Data Link

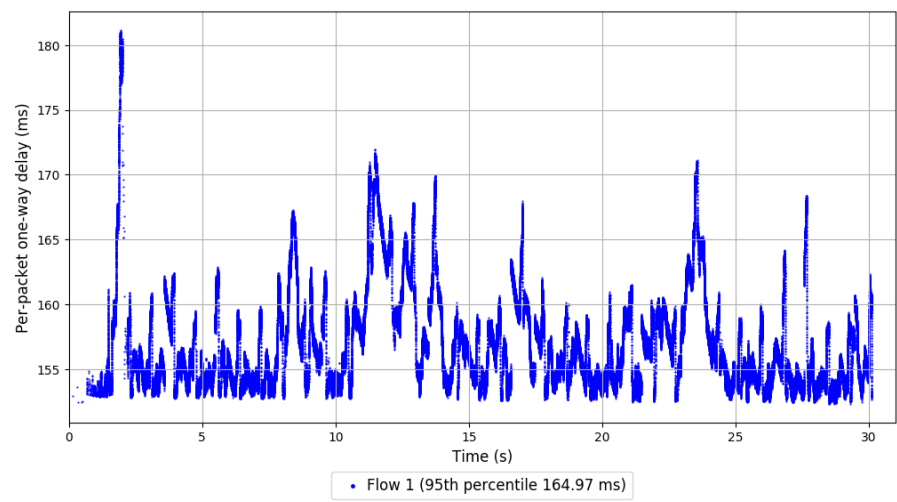
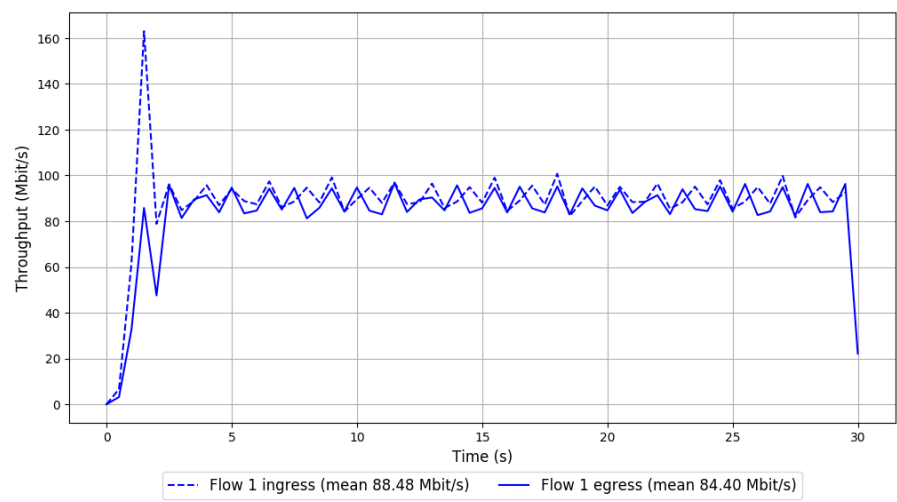


Run 3: Statistics of FillP

Start at: 2018-04-17 05:56:16
End at: 2018-04-17 05:56:46
Local clock offset: 13.356 ms
Remote clock offset: -0.205 ms

Below is generated by plot.py at 2018-04-17 09:04:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.40 Mbit/s
95th percentile per-packet one-way delay: 164.965 ms
Loss rate: 4.62%
-- Flow 1:
Average throughput: 84.40 Mbit/s
95th percentile per-packet one-way delay: 164.965 ms
Loss rate: 4.62%

Run 3: Report of FillP — Data Link

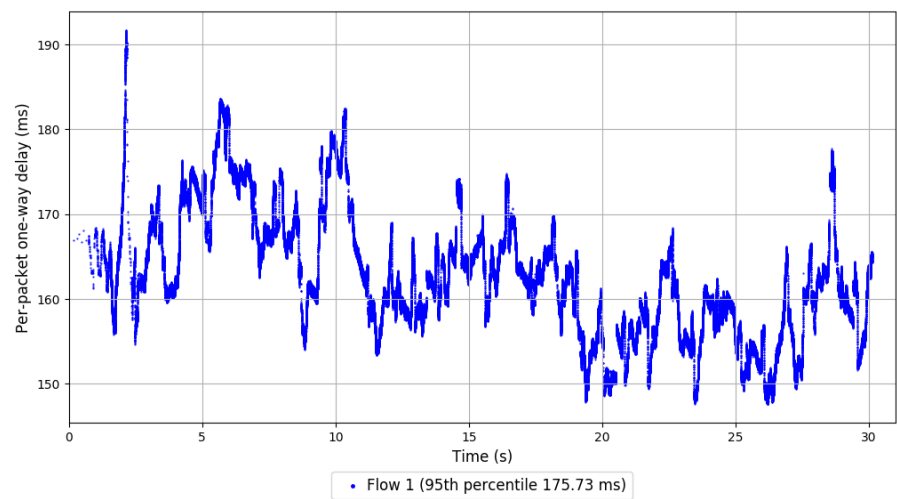
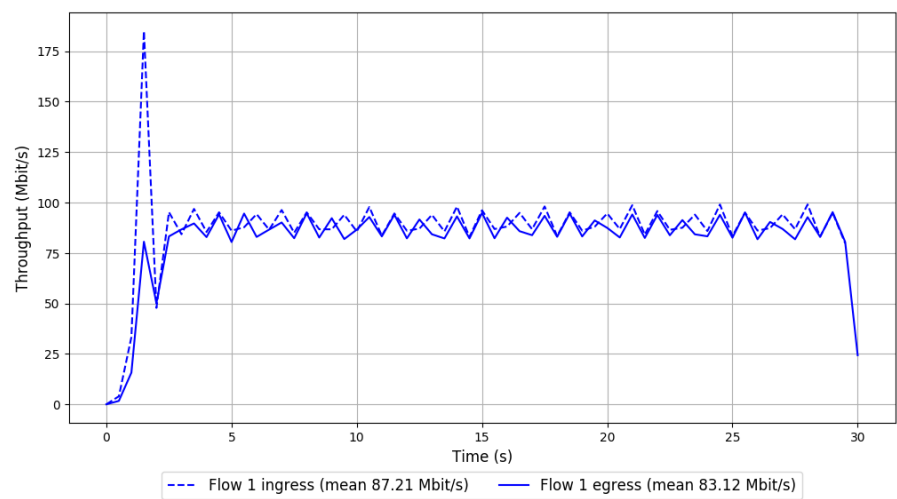


Run 4: Statistics of FillP

Start at: 2018-04-17 06:17:28
End at: 2018-04-17 06:17:58
Local clock offset: 8.754 ms
Remote clock offset: -16.449 ms

Below is generated by plot.py at 2018-04-17 09:04:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 83.12 Mbit/s
95th percentile per-packet one-way delay: 175.726 ms
Loss rate: 4.70%
-- Flow 1:
Average throughput: 83.12 Mbit/s
95th percentile per-packet one-way delay: 175.726 ms
Loss rate: 4.70%

Run 4: Report of FillP — Data Link

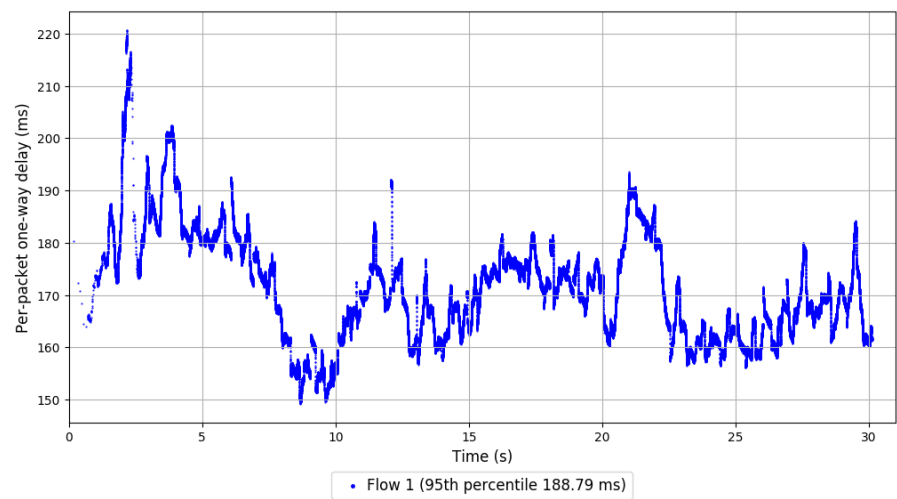
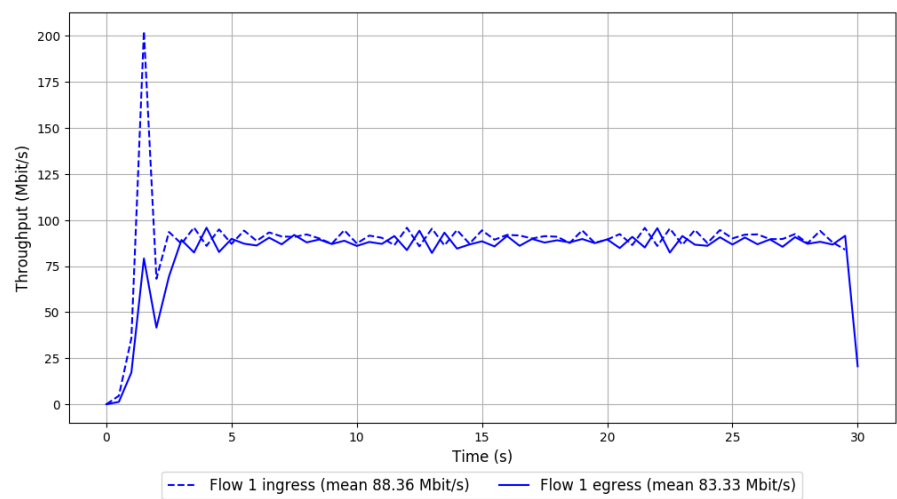


Run 5: Statistics of FillP

Start at: 2018-04-17 06:44:11
End at: 2018-04-17 06:44:41
Local clock offset: 1.831 ms
Remote clock offset: -7.951 ms

Below is generated by plot.py at 2018-04-17 09:04:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 83.33 Mbit/s
95th percentile per-packet one-way delay: 188.793 ms
Loss rate: 5.75%
-- Flow 1:
Average throughput: 83.33 Mbit/s
95th percentile per-packet one-way delay: 188.793 ms
Loss rate: 5.75%

Run 5: Report of FillP — Data Link

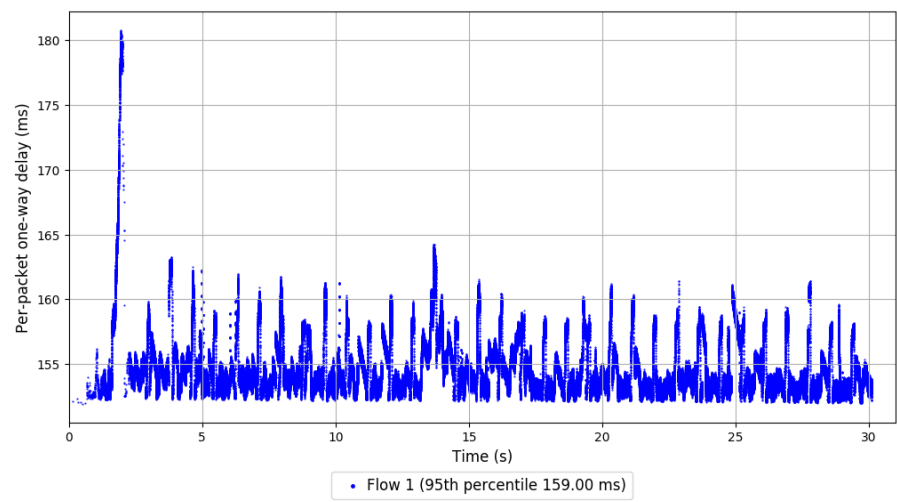
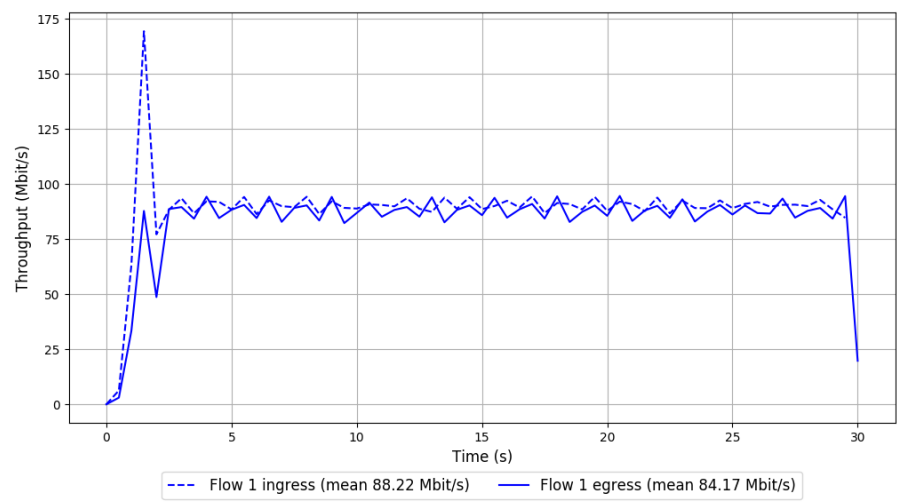


Run 6: Statistics of FillP

Start at: 2018-04-17 07:05:34
End at: 2018-04-17 07:06:04
Local clock offset: -2.592 ms
Remote clock offset: 12.115 ms

Below is generated by plot.py at 2018-04-17 09:05:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.17 Mbit/s
95th percentile per-packet one-way delay: 158.995 ms
Loss rate: 4.60%
-- Flow 1:
Average throughput: 84.17 Mbit/s
95th percentile per-packet one-way delay: 158.995 ms
Loss rate: 4.60%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-04-17 07:27:32

End at: 2018-04-17 07:28:02

Local clock offset: 6.579 ms

Remote clock offset: 5.105 ms

Below is generated by plot.py at 2018-04-17 09:05:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.56 Mbit/s

95th percentile per-packet one-way delay: 171.011 ms

Loss rate: 5.10%

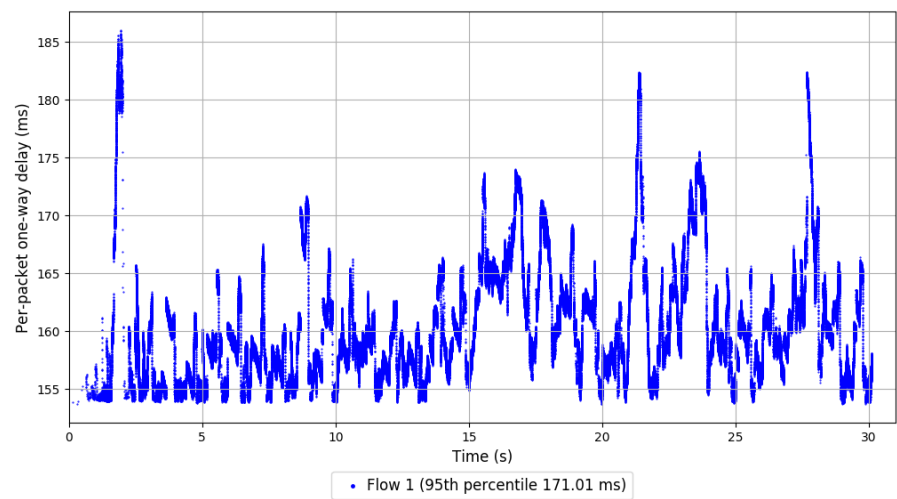
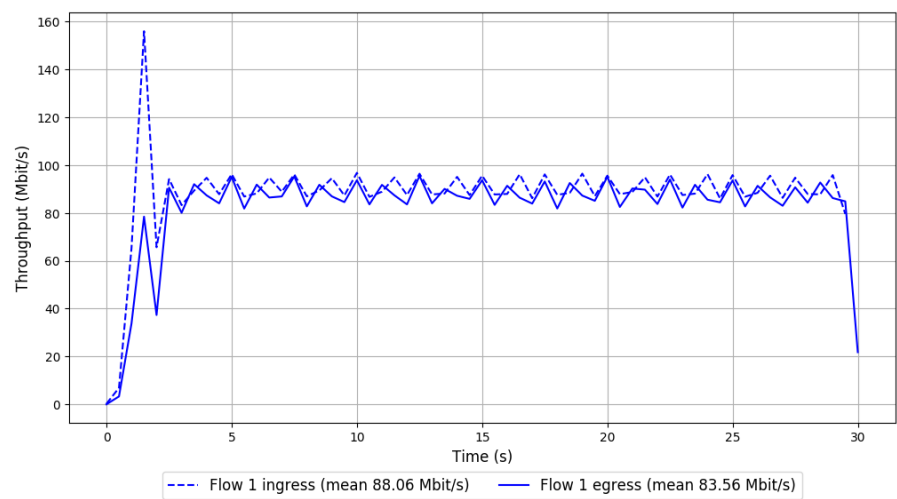
-- Flow 1:

Average throughput: 83.56 Mbit/s

95th percentile per-packet one-way delay: 171.011 ms

Loss rate: 5.10%

Run 7: Report of FillP — Data Link

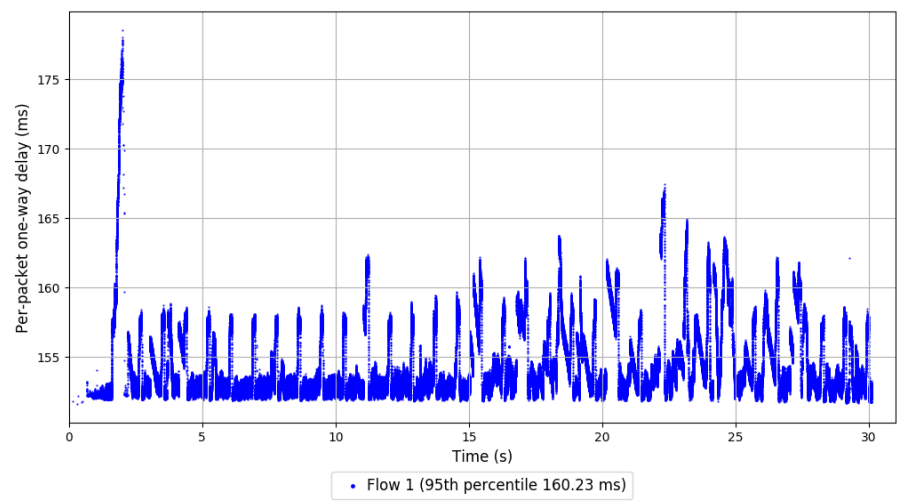
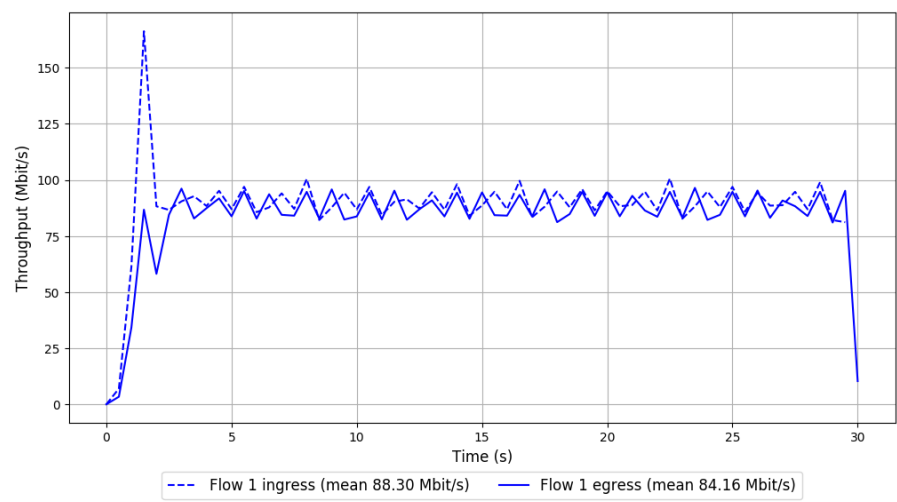


Run 8: Statistics of FillP

Start at: 2018-04-17 07:49:26
End at: 2018-04-17 07:49:56
Local clock offset: 6.887 ms
Remote clock offset: 12.065 ms

Below is generated by plot.py at 2018-04-17 09:05:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.16 Mbit/s
95th percentile per-packet one-way delay: 160.230 ms
Loss rate: 4.68%
-- Flow 1:
Average throughput: 84.16 Mbit/s
95th percentile per-packet one-way delay: 160.230 ms
Loss rate: 4.68%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-17 08:11:52

End at: 2018-04-17 08:12:22

Local clock offset: 6.417 ms

Remote clock offset: 8.319 ms

Below is generated by plot.py at 2018-04-17 09:05:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.18 Mbit/s

95th percentile per-packet one-way delay: 179.665 ms

Loss rate: 4.31%

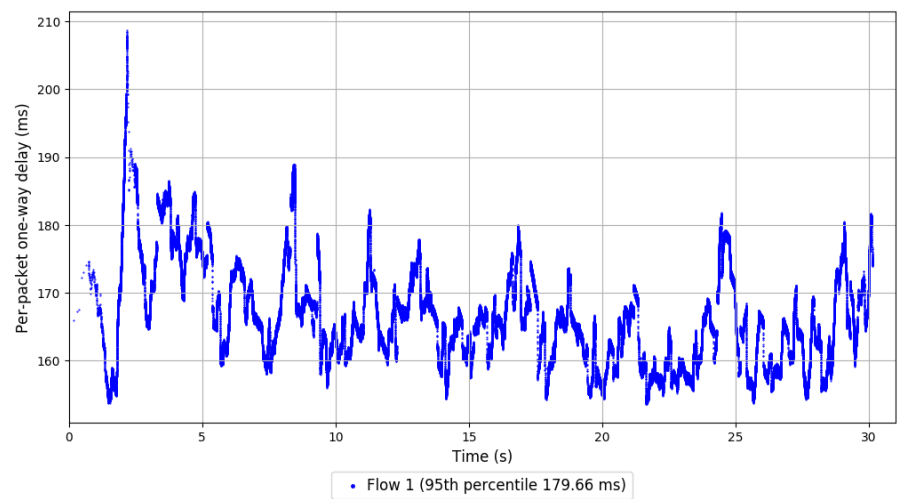
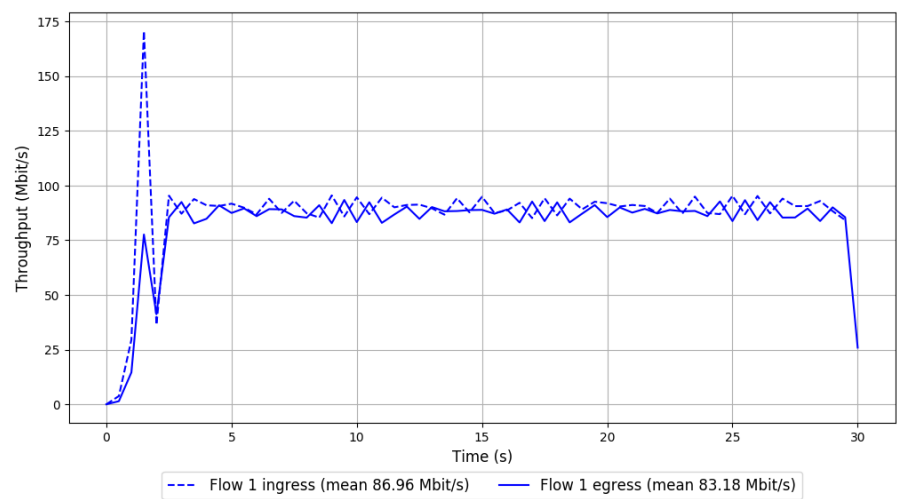
-- Flow 1:

Average throughput: 83.18 Mbit/s

95th percentile per-packet one-way delay: 179.665 ms

Loss rate: 4.31%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-17 08:32:46

End at: 2018-04-17 08:33:16

Local clock offset: 0.31 ms

Remote clock offset: 0.689 ms

Below is generated by plot.py at 2018-04-17 09:05:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.80 Mbit/s

95th percentile per-packet one-way delay: 159.157 ms

Loss rate: 5.37%

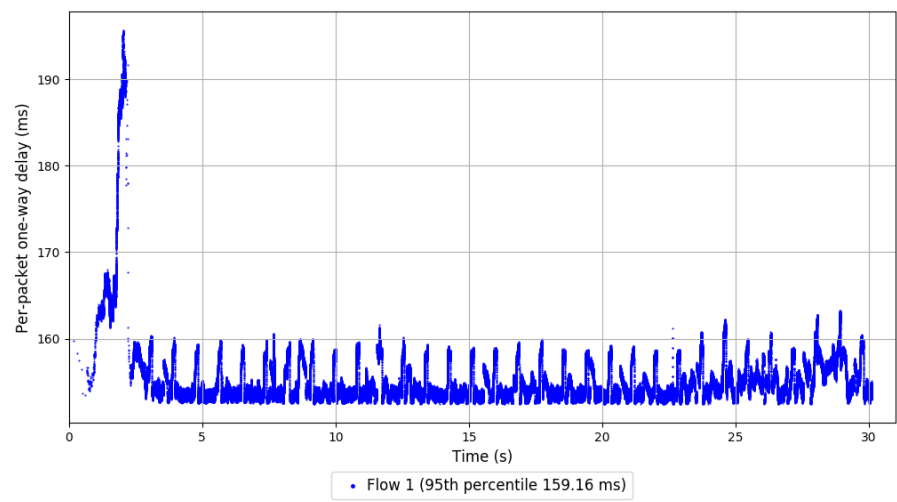
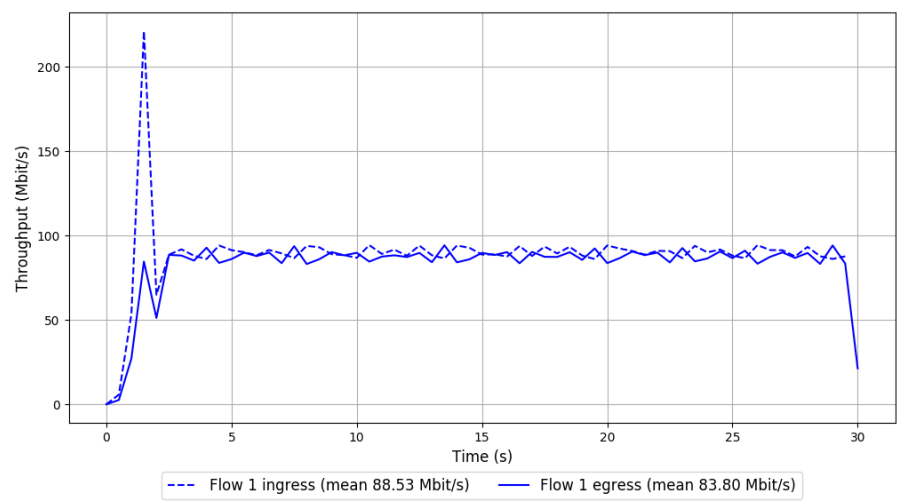
-- Flow 1:

Average throughput: 83.80 Mbit/s

95th percentile per-packet one-way delay: 159.157 ms

Loss rate: 5.37%

Run 10: Report of FillP — Data Link

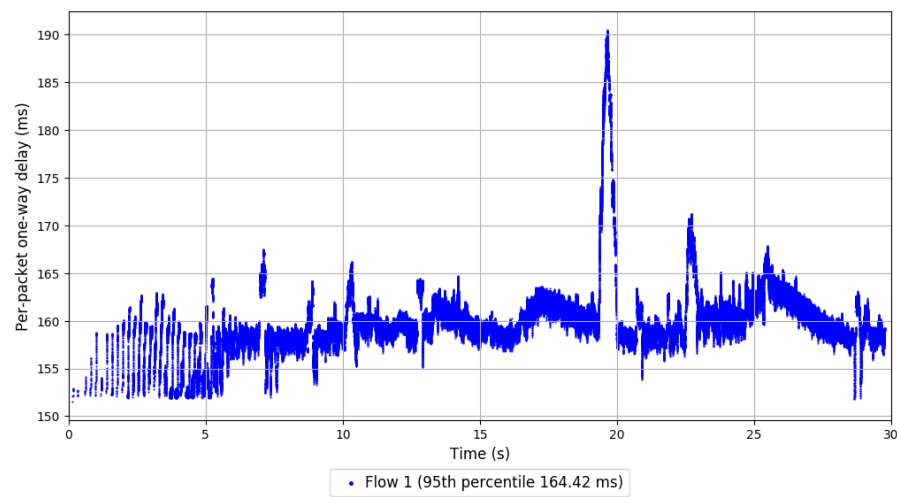
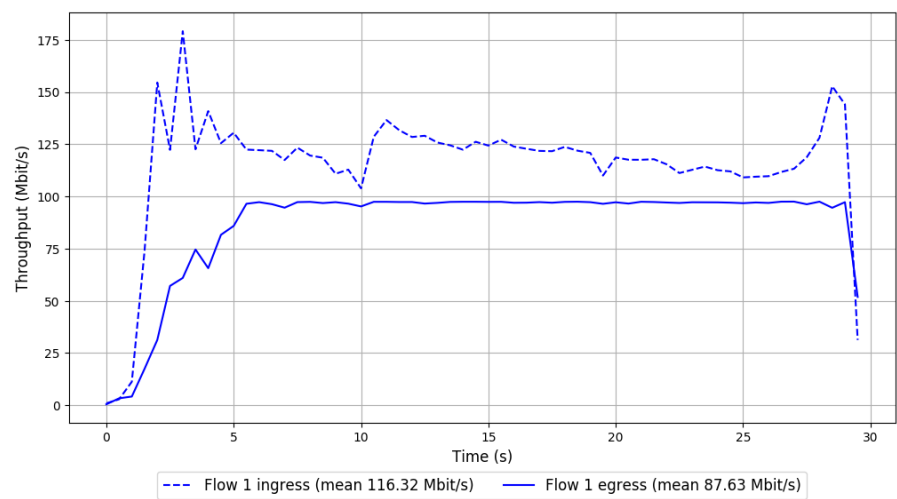


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-17 04:56:24
End at: 2018-04-17 04:56:54
Local clock offset: 8.011 ms
Remote clock offset: -13.448 ms

# Below is generated by plot.py at 2018-04-17 09:06:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.63 Mbit/s
95th percentile per-packet one-way delay: 164.423 ms
Loss rate: 24.65%
-- Flow 1:
Average throughput: 87.63 Mbit/s
95th percentile per-packet one-way delay: 164.423 ms
Loss rate: 24.65%
```

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

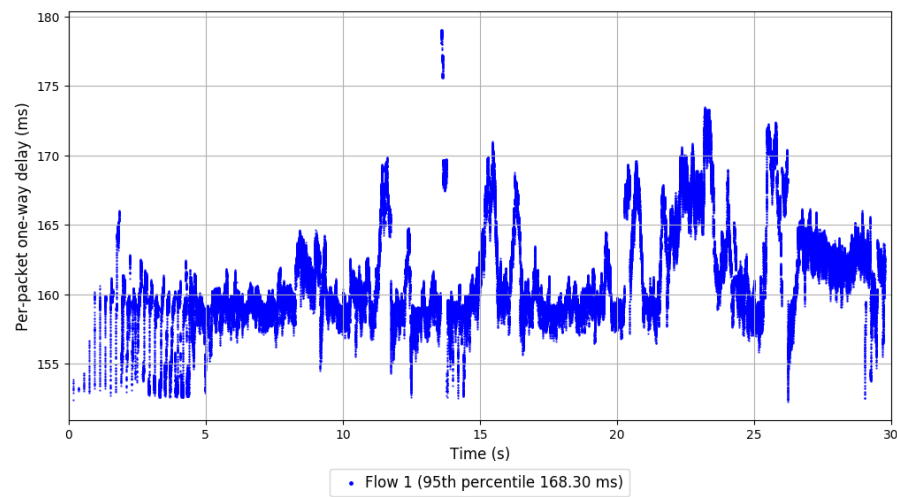
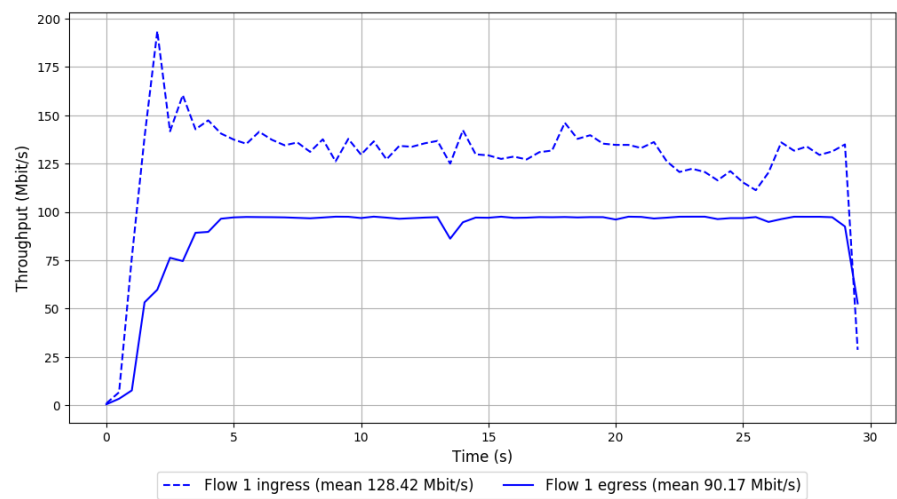


Run 2: Statistics of Indigo-1-32

Start at: 2018-04-17 05:17:37
End at: 2018-04-17 05:18:07
Local clock offset: 3.253 ms
Remote clock offset: -8.446 ms

Below is generated by plot.py at 2018-04-17 09:06:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.17 Mbit/s
95th percentile per-packet one-way delay: 168.296 ms
Loss rate: 29.77%
-- Flow 1:
Average throughput: 90.17 Mbit/s
95th percentile per-packet one-way delay: 168.296 ms
Loss rate: 29.77%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-17 05:38:49

End at: 2018-04-17 05:39:19

Local clock offset: 10.269 ms

Remote clock offset: 0.08 ms

Below is generated by plot.py at 2018-04-17 09:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.91 Mbit/s

95th percentile per-packet one-way delay: 180.666 ms

Loss rate: 23.85%

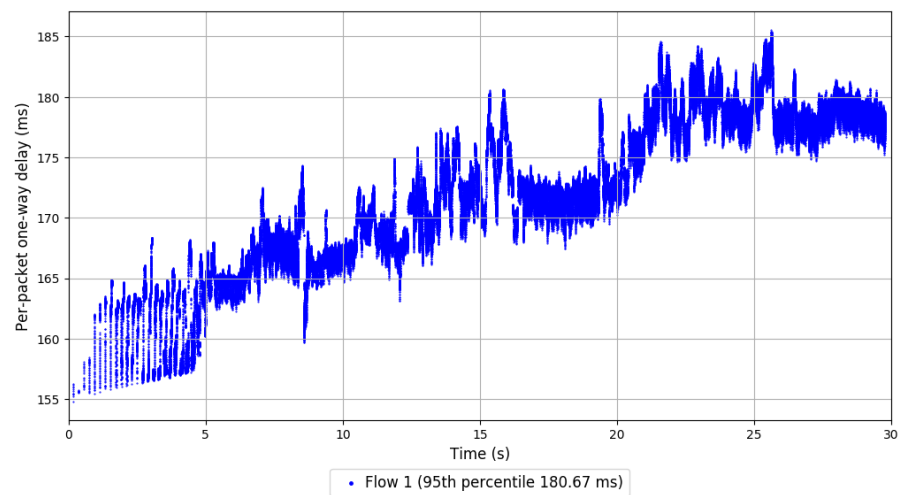
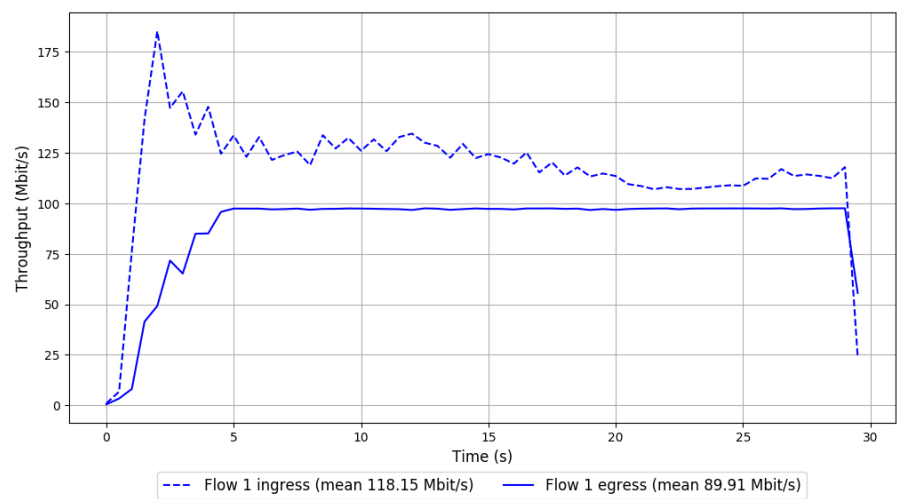
-- Flow 1:

Average throughput: 89.91 Mbit/s

95th percentile per-packet one-way delay: 180.666 ms

Loss rate: 23.85%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-17 06:00:02

End at: 2018-04-17 06:00:32

Local clock offset: 12.758 ms

Remote clock offset: 2.84 ms

Below is generated by plot.py at 2018-04-17 09:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.42 Mbit/s

95th percentile per-packet one-way delay: 171.011 ms

Loss rate: 6.30%

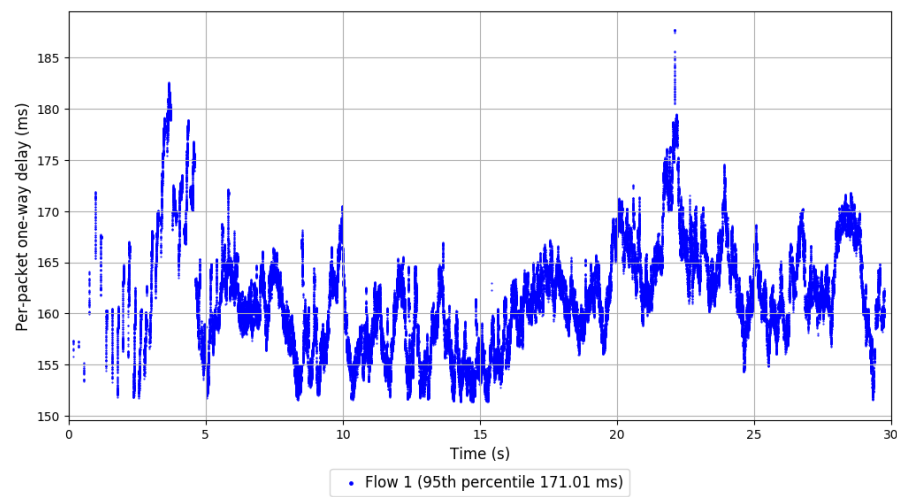
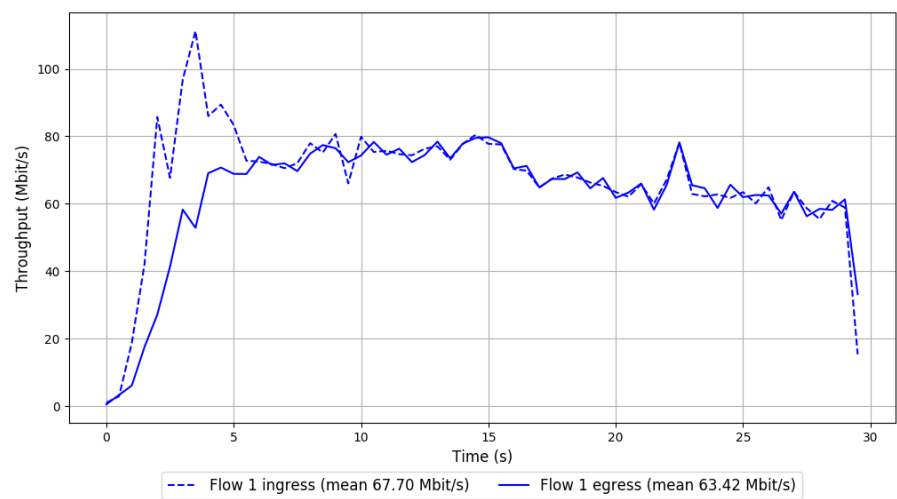
-- Flow 1:

Average throughput: 63.42 Mbit/s

95th percentile per-packet one-way delay: 171.011 ms

Loss rate: 6.30%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-17 06:21:16

End at: 2018-04-17 06:21:46

Local clock offset: 8.463 ms

Remote clock offset: -18.738 ms

Below is generated by plot.py at 2018-04-17 09:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.55 Mbit/s

95th percentile per-packet one-way delay: 205.013 ms

Loss rate: 13.07%

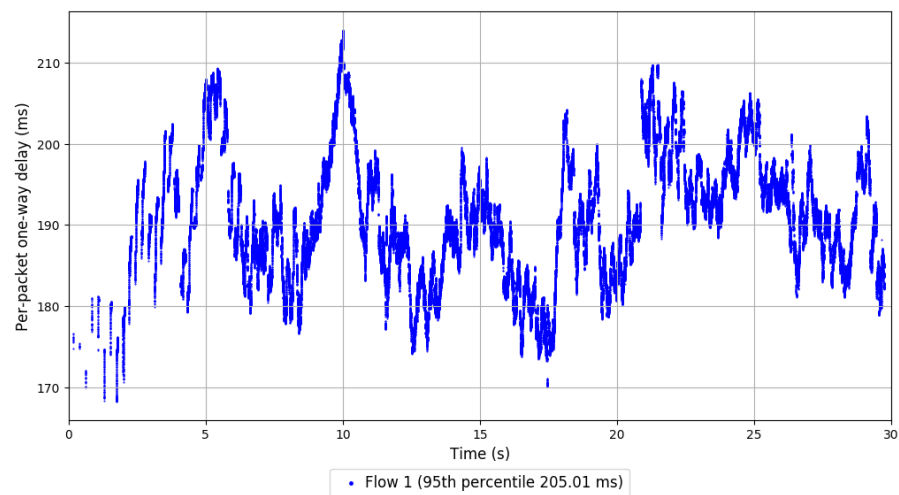
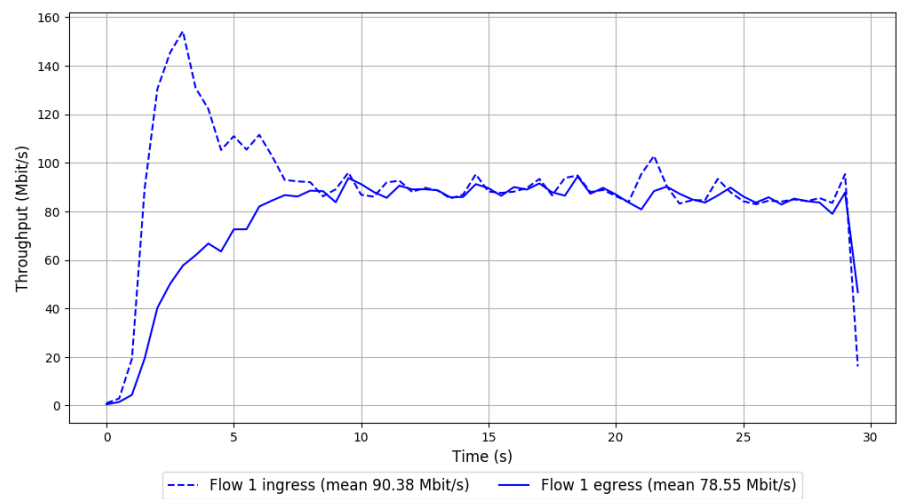
-- Flow 1:

Average throughput: 78.55 Mbit/s

95th percentile per-packet one-way delay: 205.013 ms

Loss rate: 13.07%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-17 06:48:05

End at: 2018-04-17 06:48:35

Local clock offset: 0.721 ms

Remote clock offset: 3.513 ms

Below is generated by plot.py at 2018-04-17 09:07:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.58 Mbit/s

95th percentile per-packet one-way delay: 173.458 ms

Loss rate: 23.87%

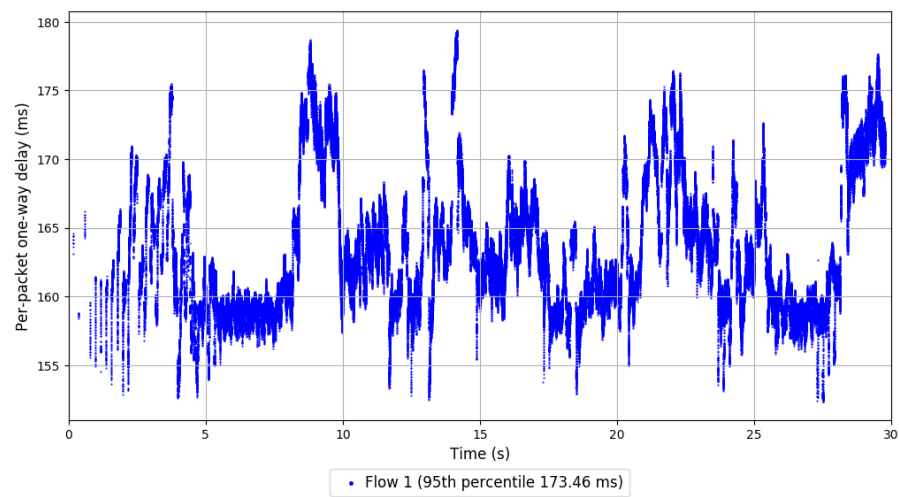
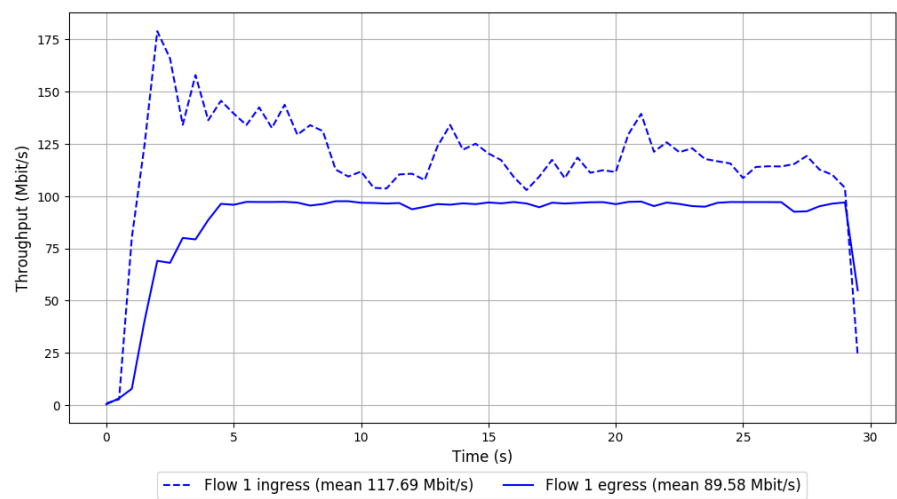
-- Flow 1:

Average throughput: 89.58 Mbit/s

95th percentile per-packet one-way delay: 173.458 ms

Loss rate: 23.87%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-17 07:10:02

End at: 2018-04-17 07:10:32

Local clock offset: 0.091 ms

Remote clock offset: -4.494 ms

Below is generated by plot.py at 2018-04-17 09:07:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.24 Mbit/s

95th percentile per-packet one-way delay: 166.354 ms

Loss rate: 21.16%

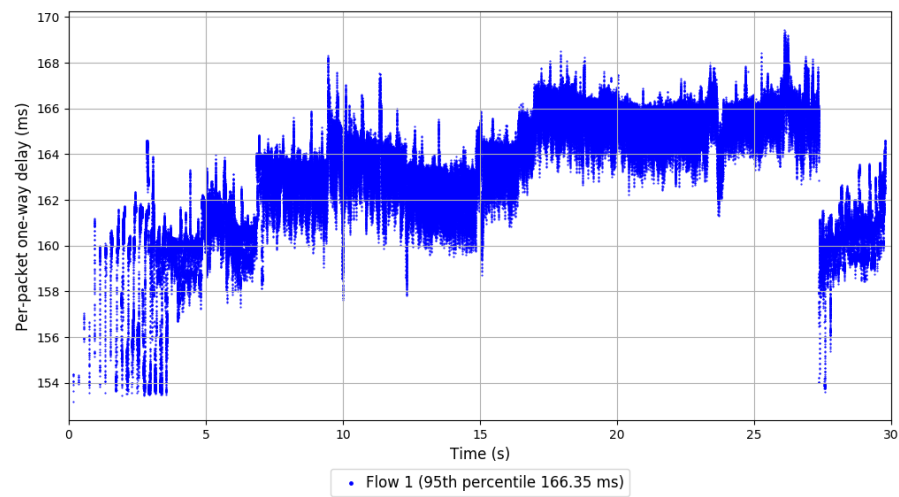
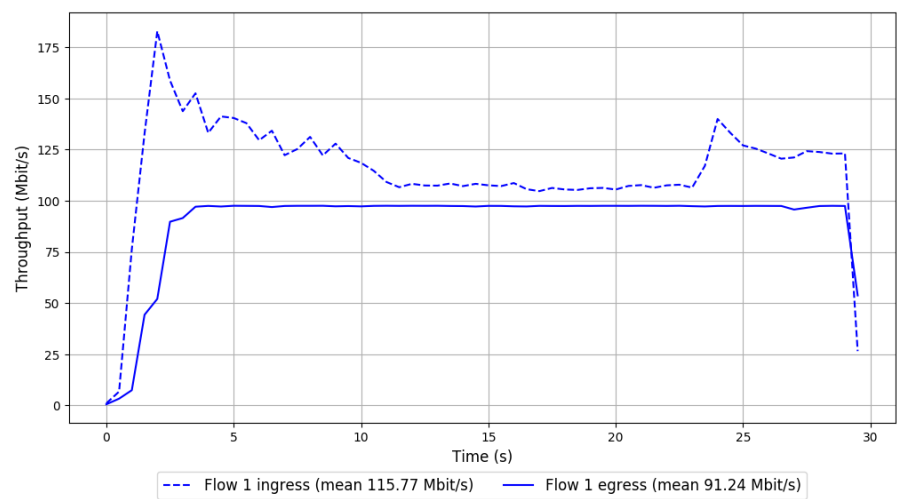
-- Flow 1:

Average throughput: 91.24 Mbit/s

95th percentile per-packet one-way delay: 166.354 ms

Loss rate: 21.16%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-17 07:31:21

End at: 2018-04-17 07:31:51

Local clock offset: 7.124 ms

Remote clock offset: 6.772 ms

Below is generated by plot.py at 2018-04-17 09:07:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.95 Mbit/s

95th percentile per-packet one-way delay: 164.741 ms

Loss rate: 26.63%

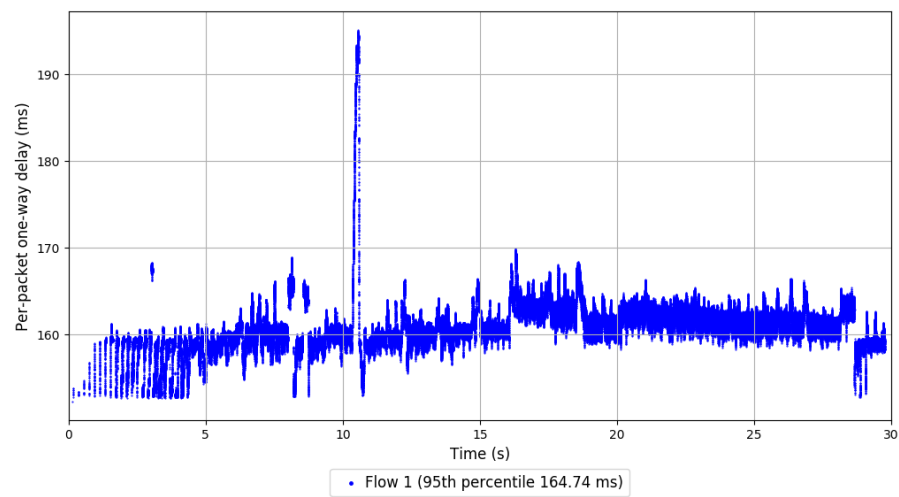
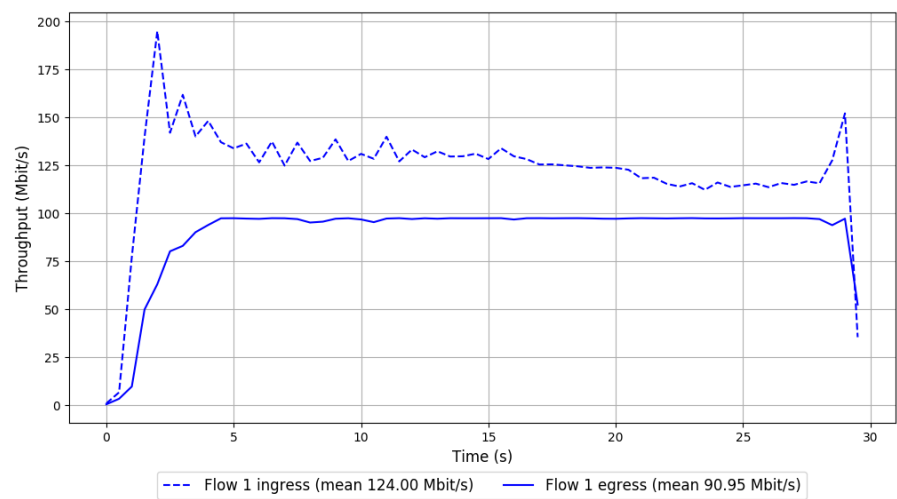
-- Flow 1:

Average throughput: 90.95 Mbit/s

95th percentile per-packet one-way delay: 164.741 ms

Loss rate: 26.63%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-17 07:53:13

End at: 2018-04-17 07:53:43

Local clock offset: 6.701 ms

Remote clock offset: 13.808 ms

Below is generated by plot.py at 2018-04-17 09:07:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.95 Mbit/s

95th percentile per-packet one-way delay: 162.559 ms

Loss rate: 26.05%

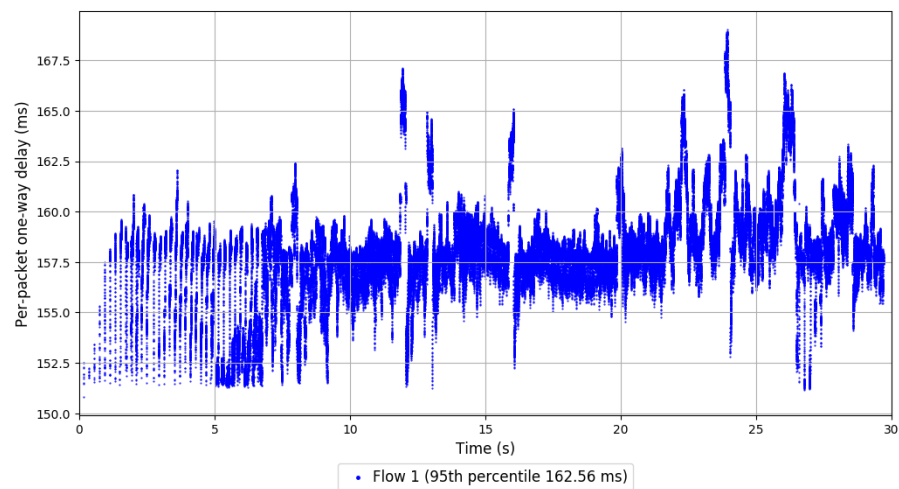
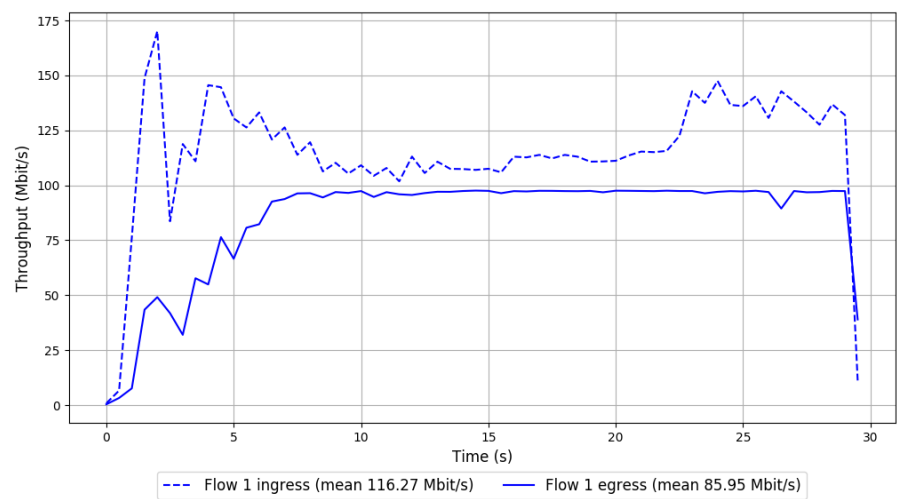
-- Flow 1:

Average throughput: 85.95 Mbit/s

95th percentile per-packet one-way delay: 162.559 ms

Loss rate: 26.05%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-17 08:15:40

End at: 2018-04-17 08:16:10

Local clock offset: 6.228 ms

Remote clock offset: 4.774 ms

Below is generated by plot.py at 2018-04-17 09:07:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.70 Mbit/s

95th percentile per-packet one-way delay: 167.449 ms

Loss rate: 20.84%

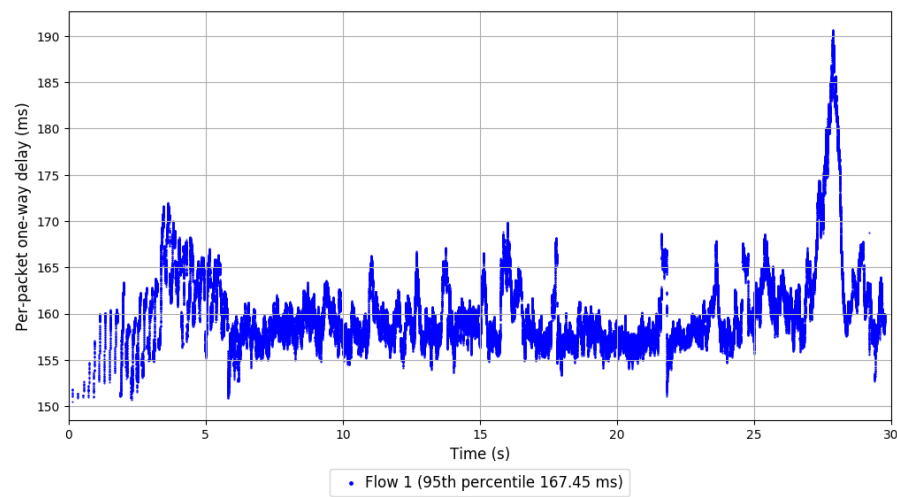
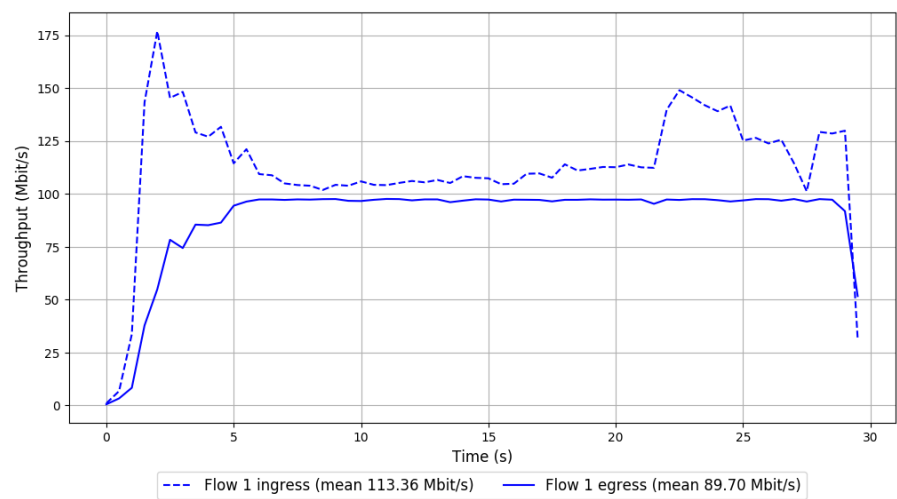
-- Flow 1:

Average throughput: 89.70 Mbit/s

95th percentile per-packet one-way delay: 167.449 ms

Loss rate: 20.84%

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

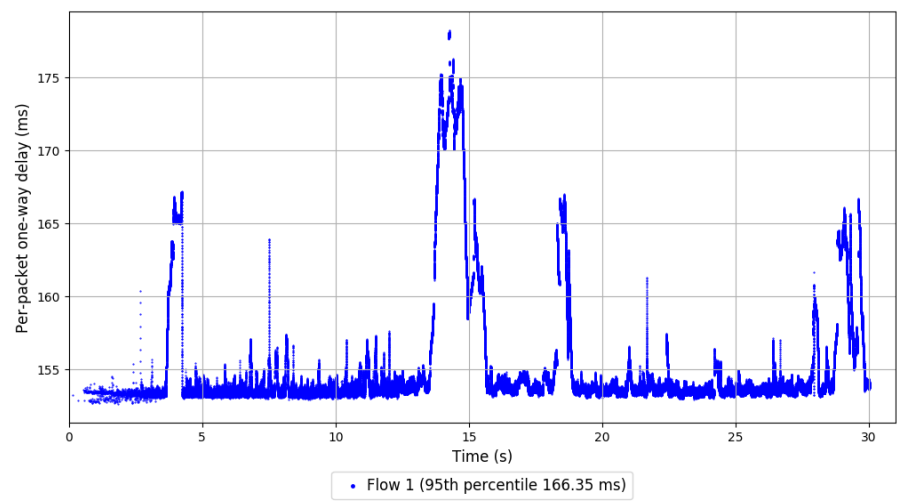
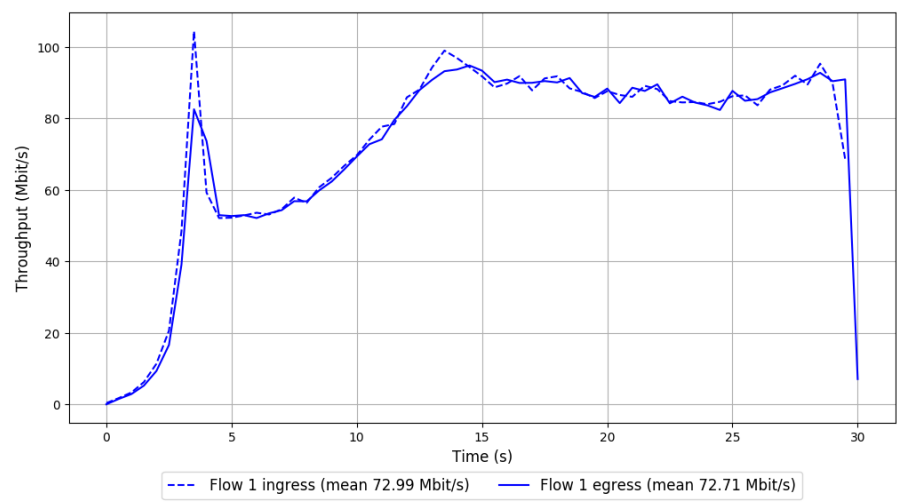


Run 1: Statistics of PCC-Vivace

Start at: 2018-04-17 04:58:59
End at: 2018-04-17 04:59:29
Local clock offset: 6.796 ms
Remote clock offset: -13.636 ms

Below is generated by plot.py at 2018-04-17 09:07:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.71 Mbit/s
95th percentile per-packet one-way delay: 166.346 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 72.71 Mbit/s
95th percentile per-packet one-way delay: 166.346 ms
Loss rate: 0.37%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-04-17 05:20:12

End at: 2018-04-17 05:20:42

Local clock offset: 2.832 ms

Remote clock offset: -5.757 ms

Below is generated by plot.py at 2018-04-17 09:07:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.09 Mbit/s

95th percentile per-packet one-way delay: 166.239 ms

Loss rate: 0.02%

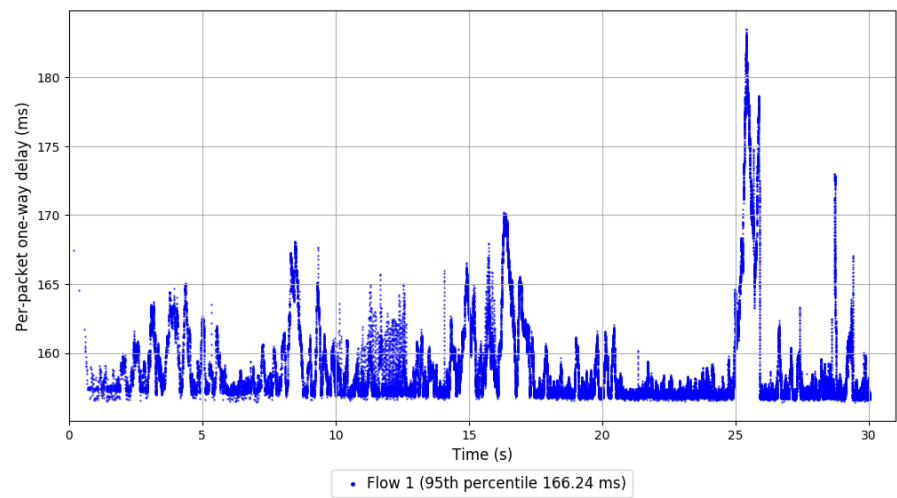
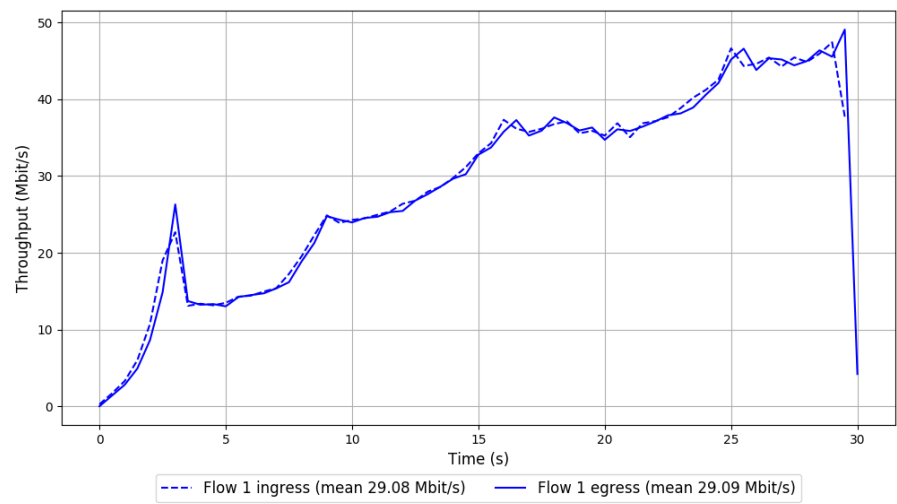
-- Flow 1:

Average throughput: 29.09 Mbit/s

95th percentile per-packet one-way delay: 166.239 ms

Loss rate: 0.02%

Run 2: Report of PCC-Vivace — Data Link

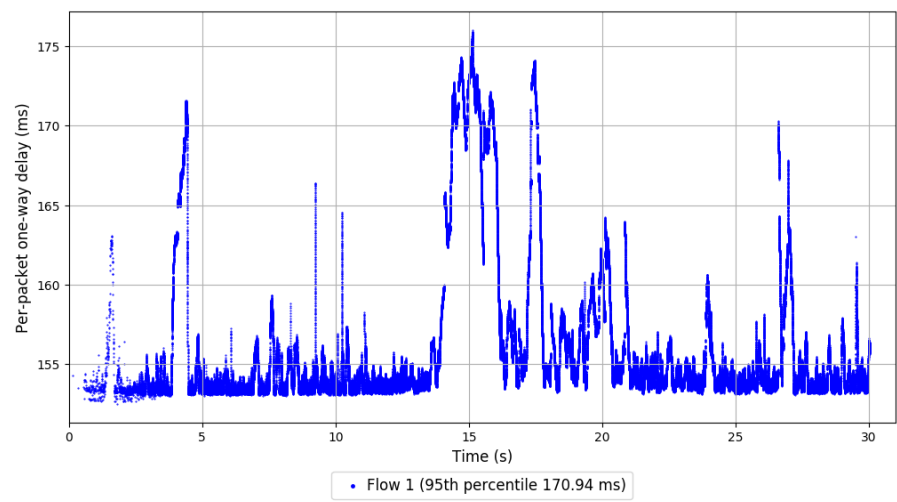
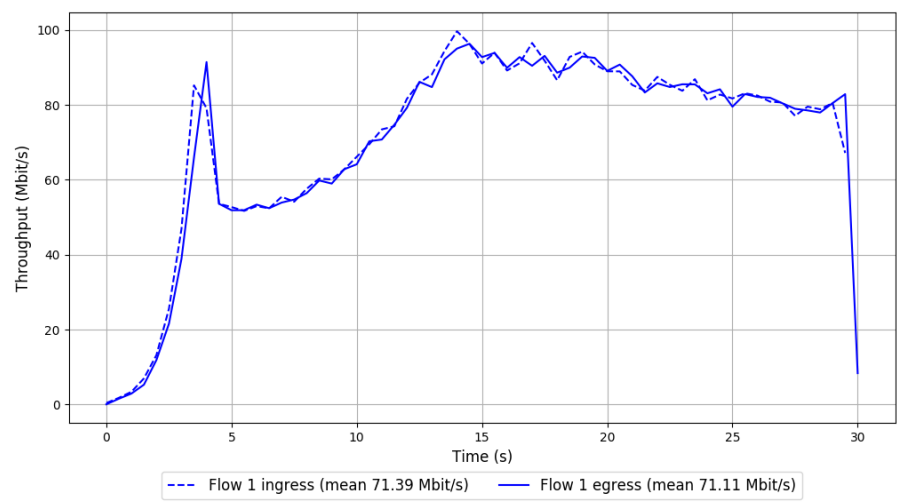


Run 3: Statistics of PCC-Vivace

Start at: 2018-04-17 05:41:23
End at: 2018-04-17 05:41:53
Local clock offset: 10.956 ms
Remote clock offset: -15.551 ms

Below is generated by plot.py at 2018-04-17 09:07:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 71.11 Mbit/s
95th percentile per-packet one-way delay: 170.943 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 71.11 Mbit/s
95th percentile per-packet one-way delay: 170.943 ms
Loss rate: 0.39%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-04-17 06:02:36

End at: 2018-04-17 06:03:06

Local clock offset: 11.464 ms

Remote clock offset: 6.073 ms

Below is generated by plot.py at 2018-04-17 09:07:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.96 Mbit/s

95th percentile per-packet one-way delay: 169.509 ms

Loss rate: 0.18%

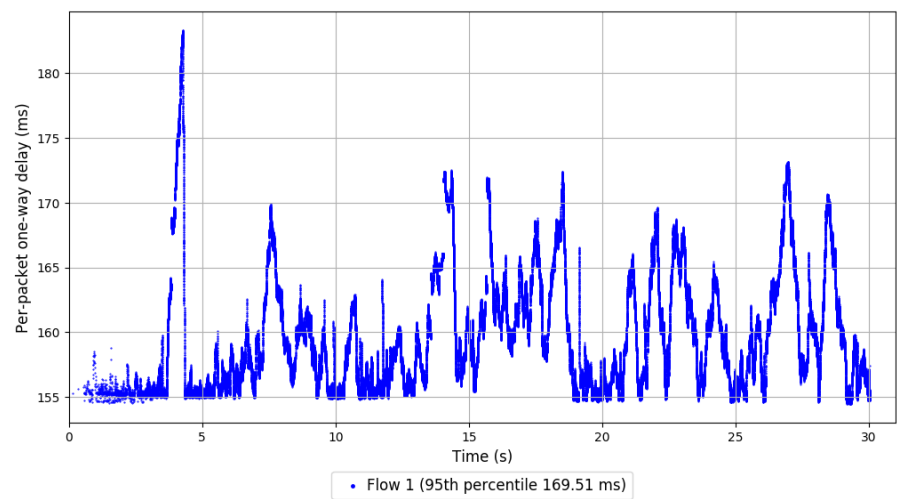
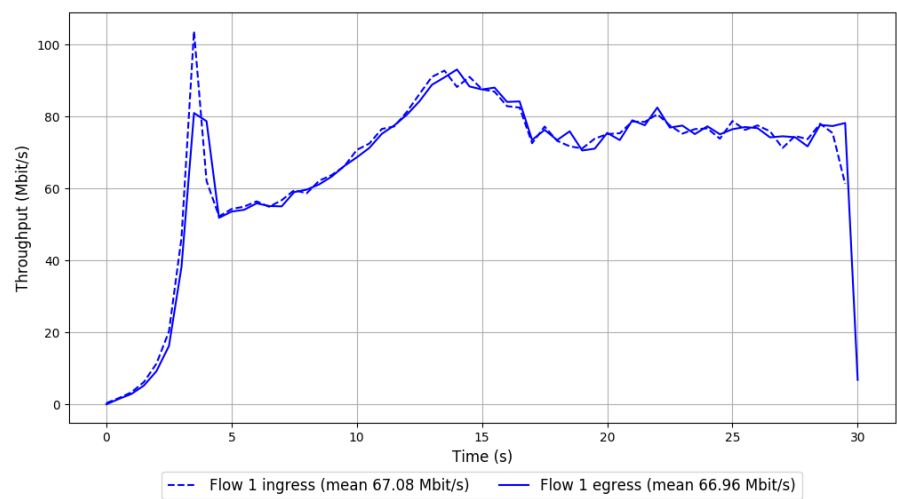
-- Flow 1:

Average throughput: 66.96 Mbit/s

95th percentile per-packet one-way delay: 169.509 ms

Loss rate: 0.18%

Run 4: Report of PCC-Vivace — Data Link

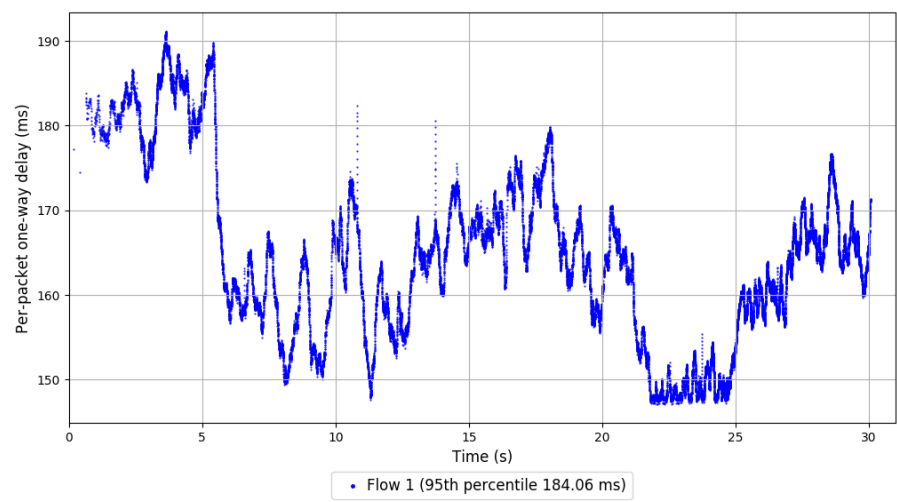
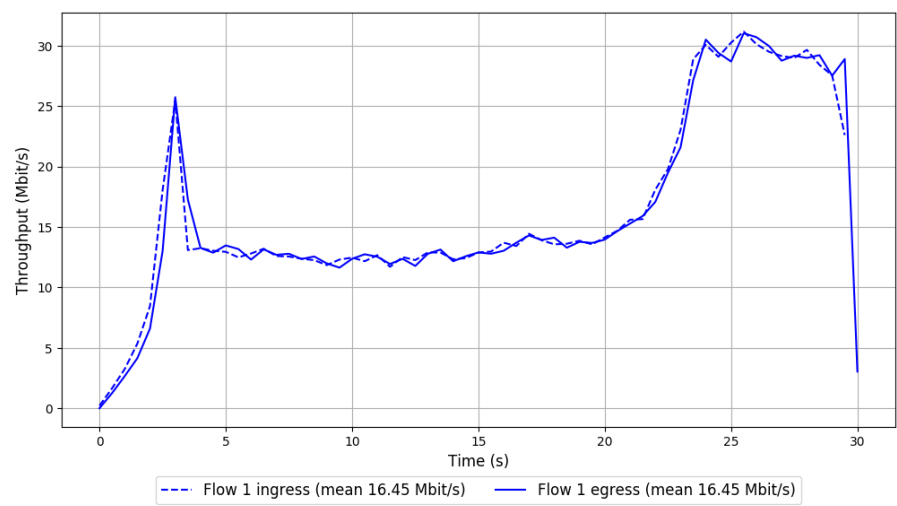


Run 5: Statistics of PCC-Vivace

Start at: 2018-04-17 06:23:51
End at: 2018-04-17 06:24:21
Local clock offset: 8.589 ms
Remote clock offset: -9.646 ms

Below is generated by plot.py at 2018-04-17 09:07:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 16.45 Mbit/s
95th percentile per-packet one-way delay: 184.063 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 16.45 Mbit/s
95th percentile per-packet one-way delay: 184.063 ms
Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-04-17 06:50:41

End at: 2018-04-17 06:51:11

Local clock offset: -0.201 ms

Remote clock offset: 5.293 ms

Below is generated by plot.py at 2018-04-17 09:08:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.03 Mbit/s

95th percentile per-packet one-way delay: 161.898 ms

Loss rate: 0.04%

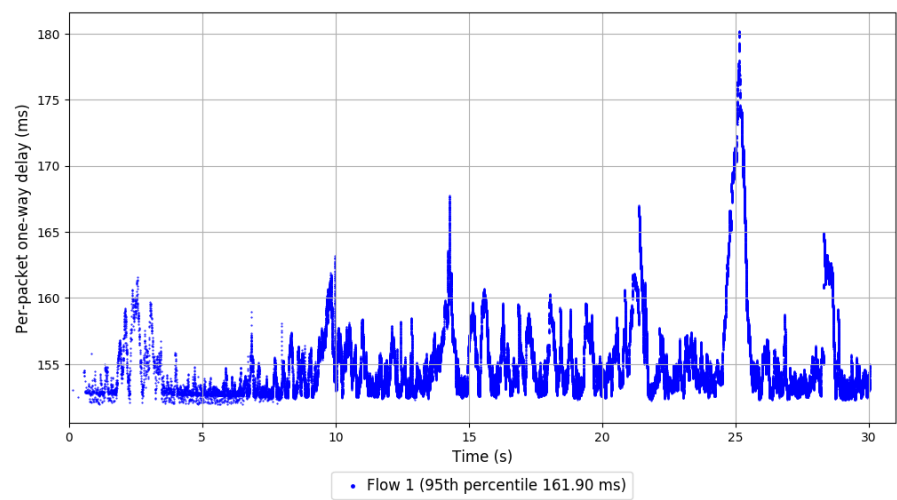
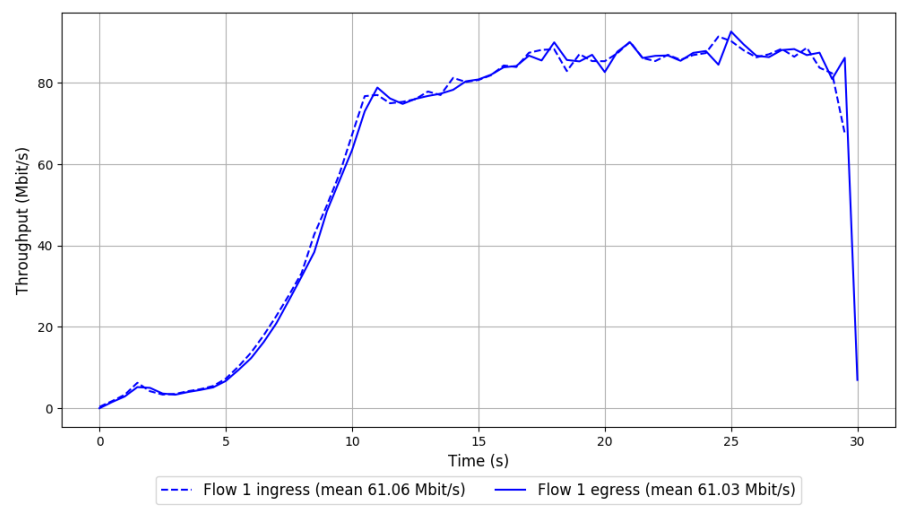
-- Flow 1:

Average throughput: 61.03 Mbit/s

95th percentile per-packet one-way delay: 161.898 ms

Loss rate: 0.04%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-04-17 07:12:36

End at: 2018-04-17 07:13:06

Local clock offset: 2.324 ms

Remote clock offset: -3.096 ms

Below is generated by plot.py at 2018-04-17 09:08:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.40 Mbit/s

95th percentile per-packet one-way delay: 159.599 ms

Loss rate: 0.46%

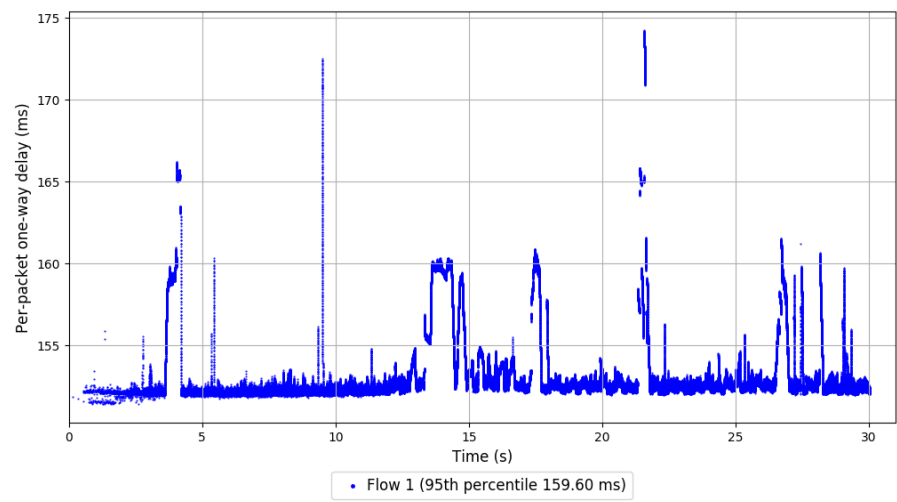
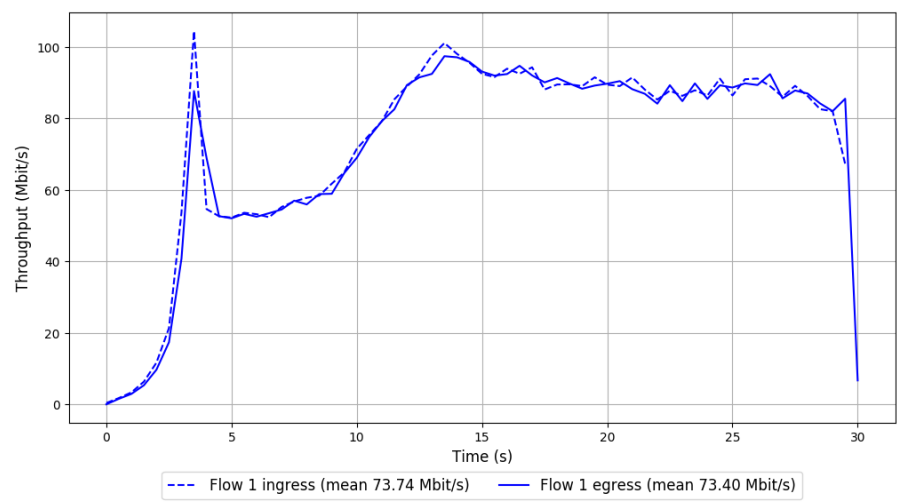
-- Flow 1:

Average throughput: 73.40 Mbit/s

95th percentile per-packet one-way delay: 159.599 ms

Loss rate: 0.46%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-04-17 07:33:54

End at: 2018-04-17 07:34:24

Local clock offset: 7.084 ms

Remote clock offset: 7.065 ms

Below is generated by plot.py at 2018-04-17 09:08:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.51 Mbit/s

95th percentile per-packet one-way delay: 158.973 ms

Loss rate: 0.25%

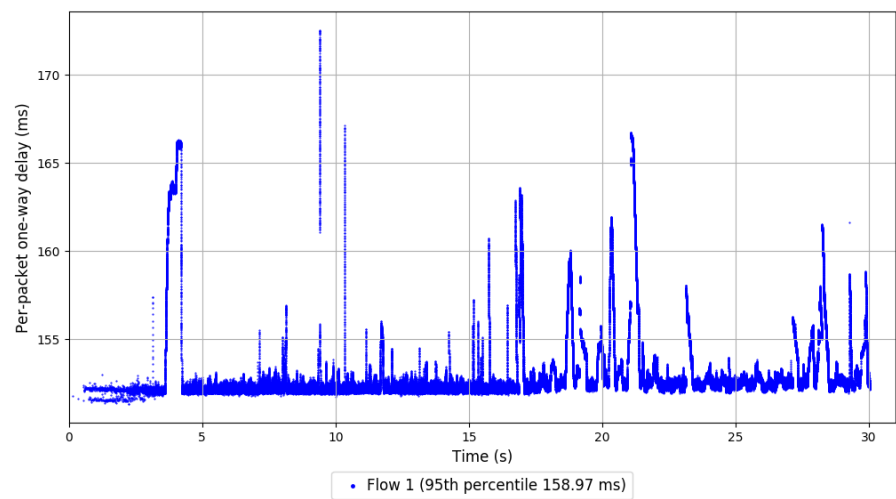
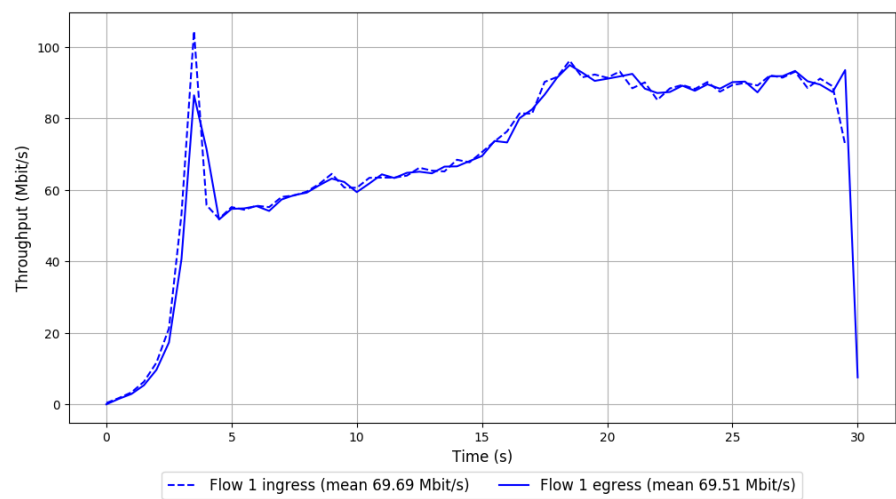
-- Flow 1:

Average throughput: 69.51 Mbit/s

95th percentile per-packet one-way delay: 158.973 ms

Loss rate: 0.25%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-04-17 07:55:48

End at: 2018-04-17 07:56:18

Local clock offset: 6.677 ms

Remote clock offset: 15.008 ms

Below is generated by plot.py at 2018-04-17 09:08:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.80 Mbit/s

95th percentile per-packet one-way delay: 164.908 ms

Loss rate: 0.47%

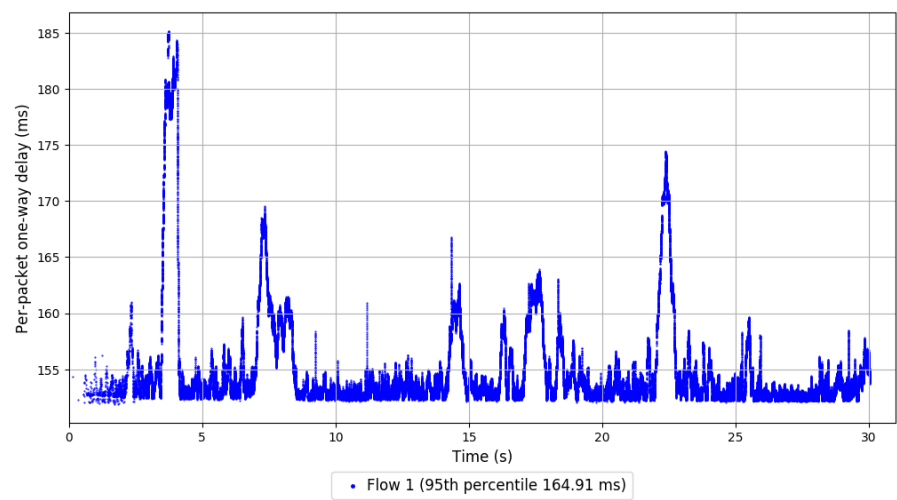
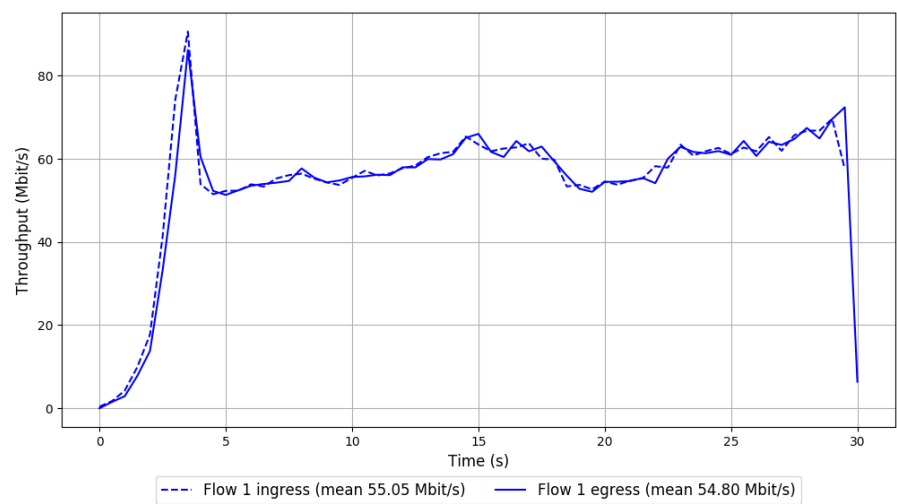
-- Flow 1:

Average throughput: 54.80 Mbit/s

95th percentile per-packet one-way delay: 164.908 ms

Loss rate: 0.47%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-04-17 08:18:14

End at: 2018-04-17 08:18:44

Local clock offset: 4.572 ms

Remote clock offset: 3.714 ms

Below is generated by plot.py at 2018-04-17 09:08:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.02 Mbit/s

95th percentile per-packet one-way delay: 171.303 ms

Loss rate: 0.21%

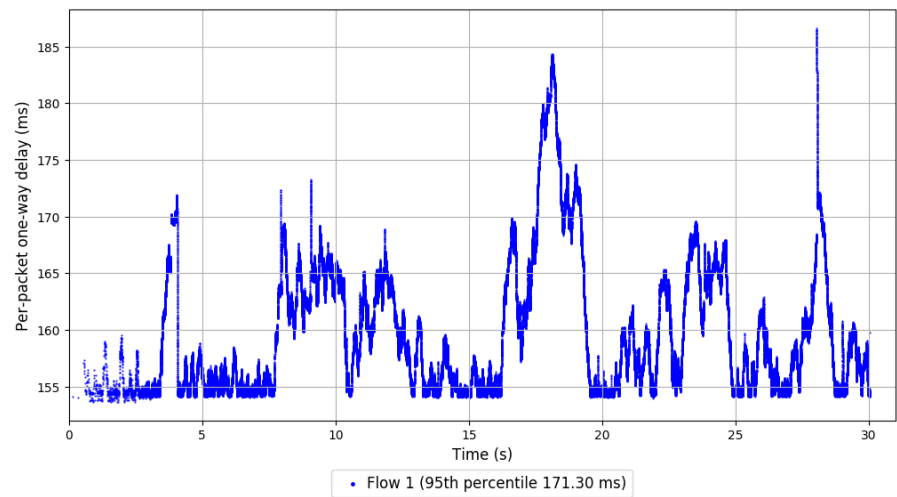
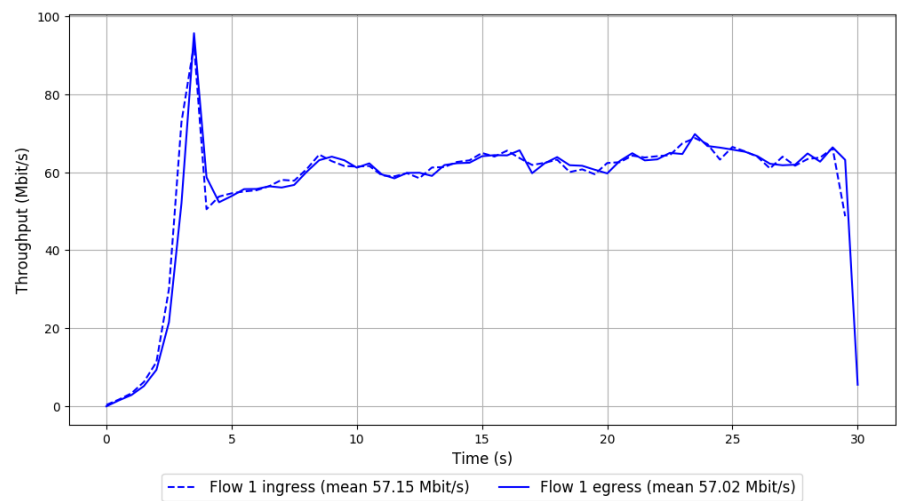
-- Flow 1:

Average throughput: 57.02 Mbit/s

95th percentile per-packet one-way delay: 171.303 ms

Loss rate: 0.21%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-17 05:01:29
End at: 2018-04-17 05:01:59
Local clock offset: 6.106 ms
Remote clock offset: -13.78 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-04-17 05:22:40
End at: 2018-04-17 05:23:10
Local clock offset: 2.841 ms
Remote clock offset: -3.471 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-04-17 05:43:54

End at: 2018-04-17 05:44:24

Local clock offset: 11.356 ms

Remote clock offset: -15.027 ms

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-04-17 06:05:06

End at: 2018-04-17 06:05:36

Local clock offset: 10.544 ms

Remote clock offset: 7.722 ms

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-04-17 06:26:18

End at: 2018-04-17 06:26:49

Local clock offset: 8.38 ms

Remote clock offset: -9.221 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-17 06:53:10

End at: 2018-04-17 06:53:40

Local clock offset: -0.484 ms

Remote clock offset: 7.192 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-04-17 07:15:06

End at: 2018-04-17 07:15:36

Local clock offset: 3.635 ms

Remote clock offset: -1.864 ms

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-17 07:36:51

End at: 2018-04-17 07:37:21

Local clock offset: 7.291 ms

Remote clock offset: 4.067 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-17 07:58:17

End at: 2018-04-17 07:58:47

Local clock offset: 6.54 ms

Remote clock offset: 16.229 ms

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-17 08:20:43

End at: 2018-04-17 08:21:13

Local clock offset: 3.414 ms

Remote clock offset: 2.757 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing