

Pantheon Report

Generated at 2018-07-01 03:17:31 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

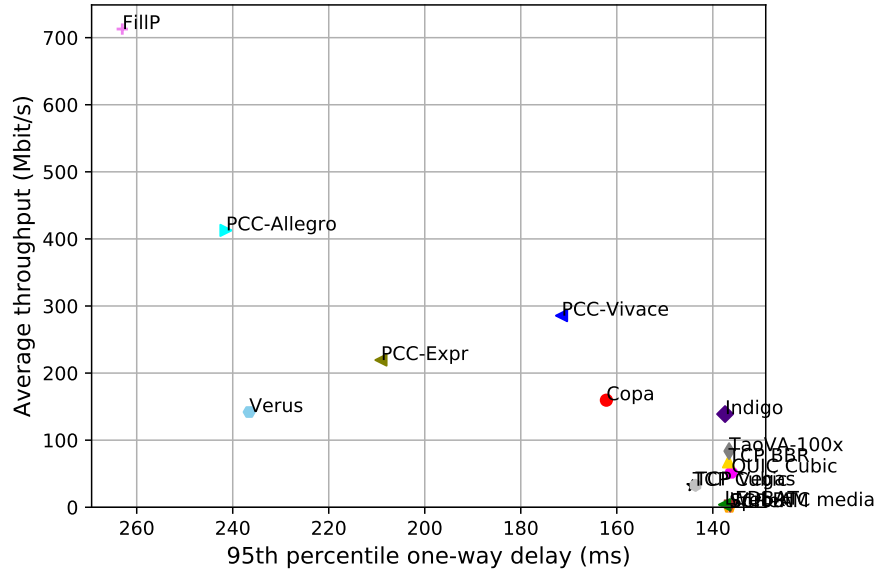
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

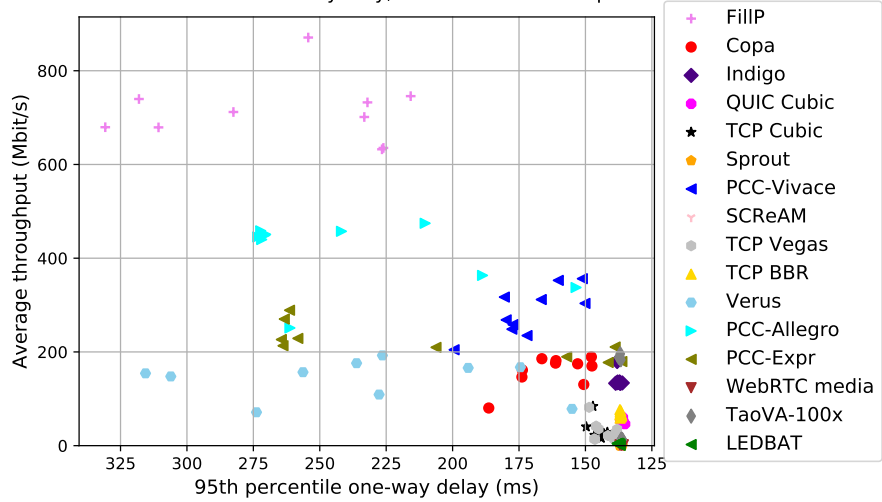
Git summary:

```
branch: master @ 715dc5f09d172e419699f6f17f1cb4c45064f212
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ 30060ab034deb3424347f5cc3db86198eac35d2a
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
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-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



test from GCE London to GCE Sydney, 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	67.60	136.73	1.02
Copa	10	159.59	162.17	1.16
TCP Cubic	10	32.05	144.20	0.75
FillP	10	712.84	263.01	5.92
FillP-Sheep	0	N/A	N/A	N/A
Indigo	10	138.89	137.45	0.98
LEDBAT	10	3.84	137.56	1.56
PCC-Allegro	10	412.71	241.41	2.65
PCC-Expr	10	219.44	209.13	2.43
QUIC Cubic	10	51.90	136.14	1.37
SCReAM	10	0.22	136.47	0.90
Sprout	10	0.16	136.57	1.05
TaoVA-100x	10	83.68	136.61	0.98
TCP Vegas	10	32.68	143.61	0.52
Verus	10	141.94	236.57	2.21
PCC-Vivace	10	285.62	171.51	1.85
WebRTC media	10	1.80	136.37	1.09

Run 1: Statistics of TCP BBR

Start at: 2018-06-30 22:44:05

End at: 2018-06-30 22:44:35

Local clock offset: 0.046 ms

Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-07-01 02:12:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.74 Mbit/s

95th percentile per-packet one-way delay: 136.948 ms

Loss rate: 0.47%

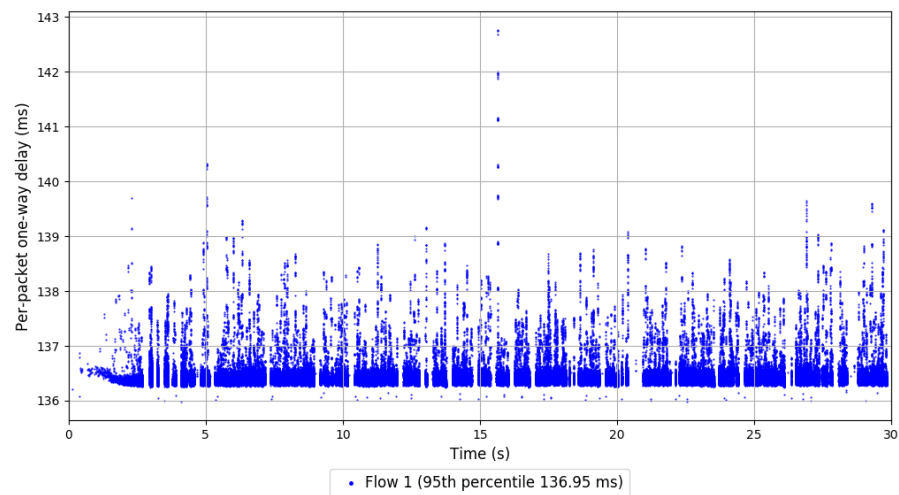
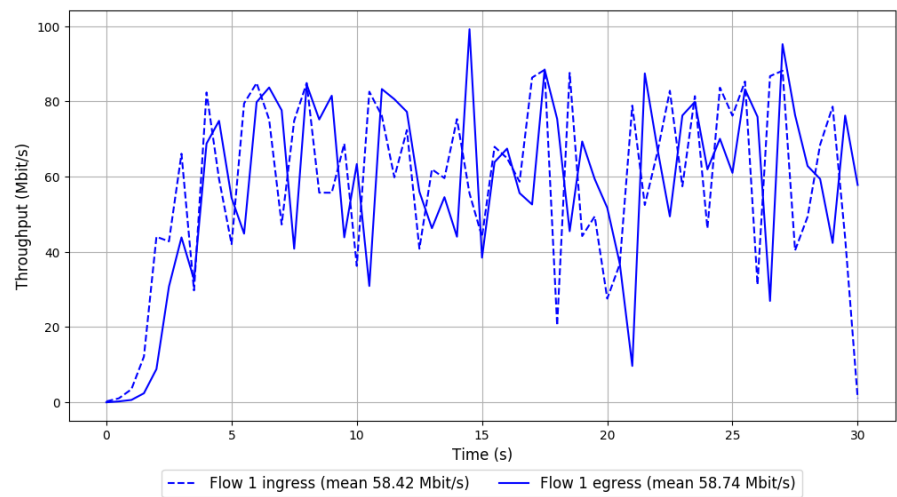
-- Flow 1:

Average throughput: 58.74 Mbit/s

95th percentile per-packet one-way delay: 136.948 ms

Loss rate: 0.47%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-30 23:05:52

End at: 2018-06-30 23:06:22

Local clock offset: 0.062 ms

Remote clock offset: -0.019 ms

Below is generated by plot.py at 2018-07-01 02:13:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.84 Mbit/s

95th percentile per-packet one-way delay: 137.007 ms

Loss rate: 1.00%

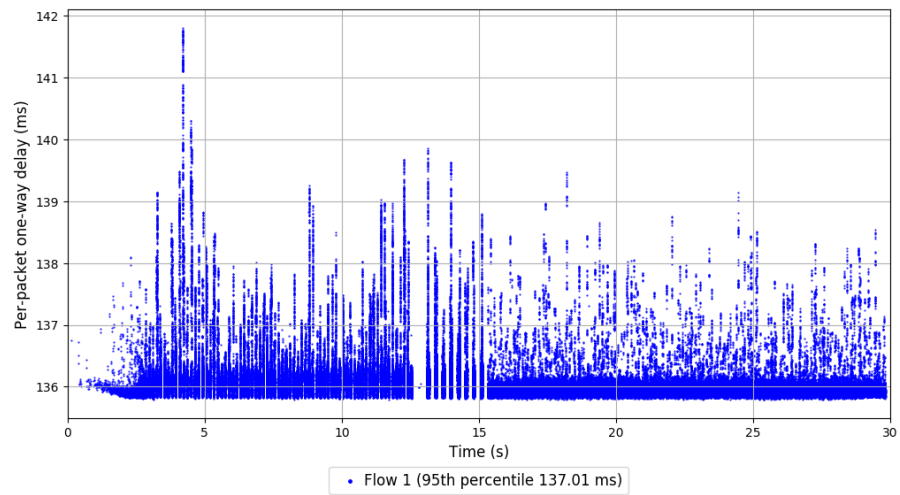
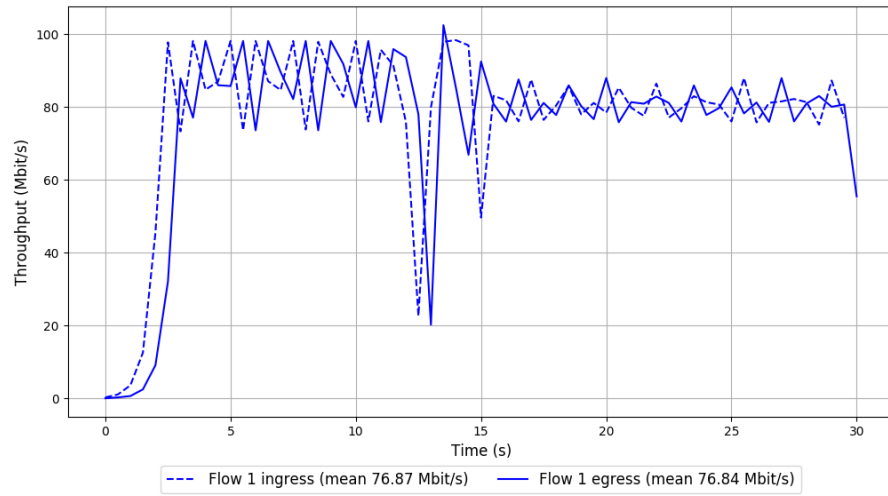
-- Flow 1:

Average throughput: 76.84 Mbit/s

95th percentile per-packet one-way delay: 137.007 ms

Loss rate: 1.00%

Run 2: Report of TCP BBR — Data Link

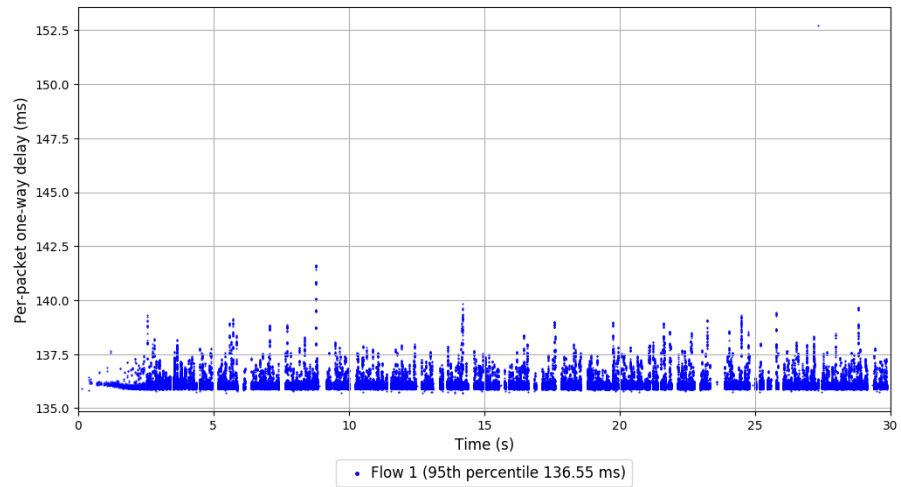
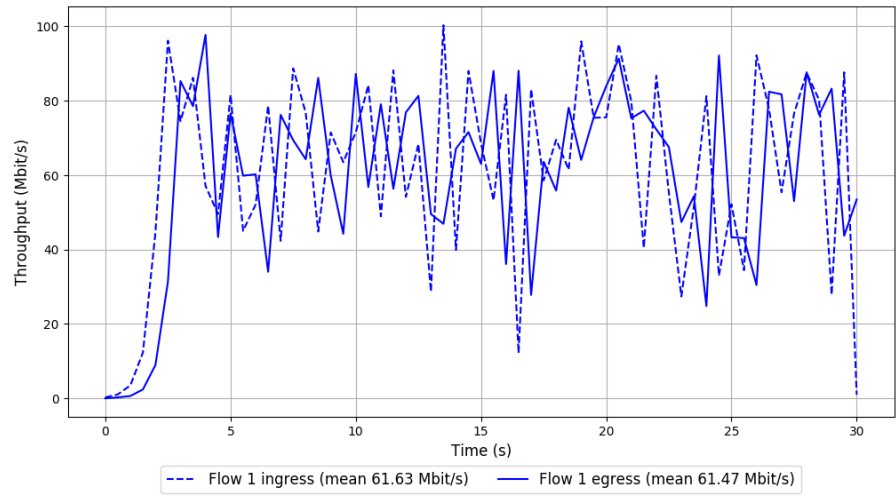


Run 3: Statistics of TCP BBR

Start at: 2018-06-30 23:27:56
End at: 2018-06-30 23:28:26
Local clock offset: -0.018 ms
Remote clock offset: -0.058 ms

Below is generated by plot.py at 2018-07-01 02:13:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 61.47 Mbit/s
95th percentile per-packet one-way delay: 136.550 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 61.47 Mbit/s
95th percentile per-packet one-way delay: 136.550 ms
Loss rate: 1.19%

Run 3: Report of TCP BBR — Data Link

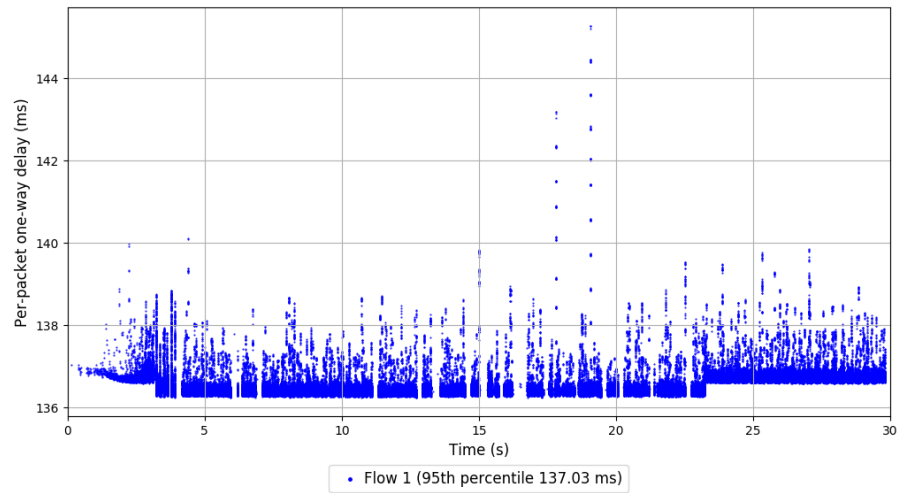
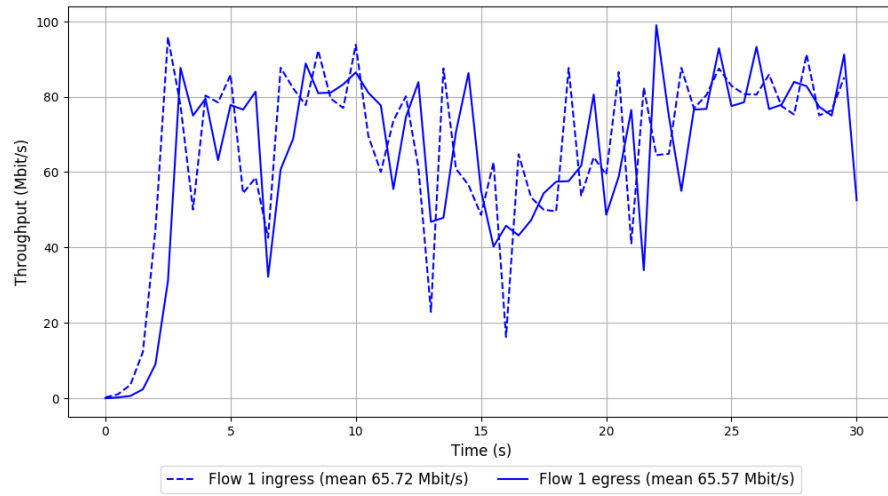


Run 4: Statistics of TCP BBR

Start at: 2018-06-30 23:49:47
End at: 2018-06-30 23:50:17
Local clock offset: 0.118 ms
Remote clock offset: -0.293 ms

Below is generated by plot.py at 2018-07-01 02:13:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 65.57 Mbit/s
95th percentile per-packet one-way delay: 137.032 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 65.57 Mbit/s
95th percentile per-packet one-way delay: 137.032 ms
Loss rate: 1.18%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-01 00:11:36

End at: 2018-07-01 00:12:06

Local clock offset: 0.184 ms

Remote clock offset: 0.079 ms

Below is generated by plot.py at 2018-07-01 02:13:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.31 Mbit/s

95th percentile per-packet one-way delay: 136.898 ms

Loss rate: 0.67%

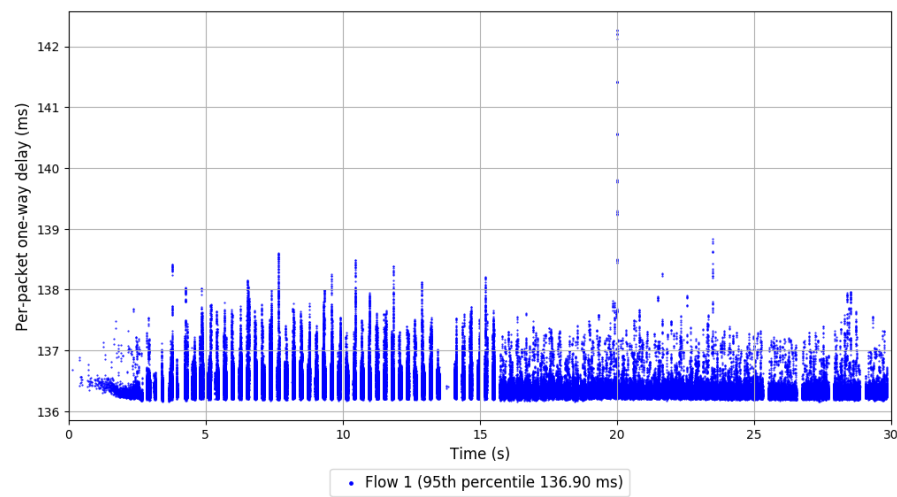
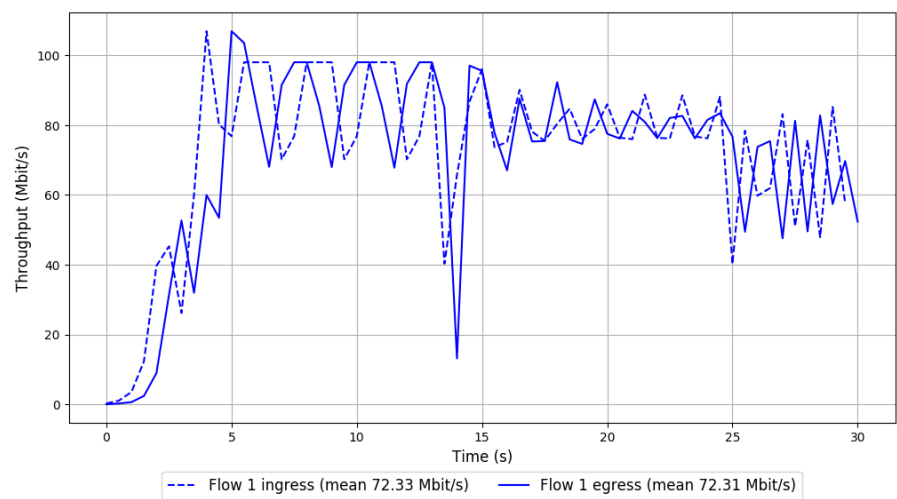
-- Flow 1:

Average throughput: 72.31 Mbit/s

95th percentile per-packet one-way delay: 136.898 ms

Loss rate: 0.67%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-01 00:33:38

End at: 2018-07-01 00:34:08

Local clock offset: 0.212 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-07-01 02:13:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.18 Mbit/s

95th percentile per-packet one-way delay: 136.693 ms

Loss rate: 0.96%

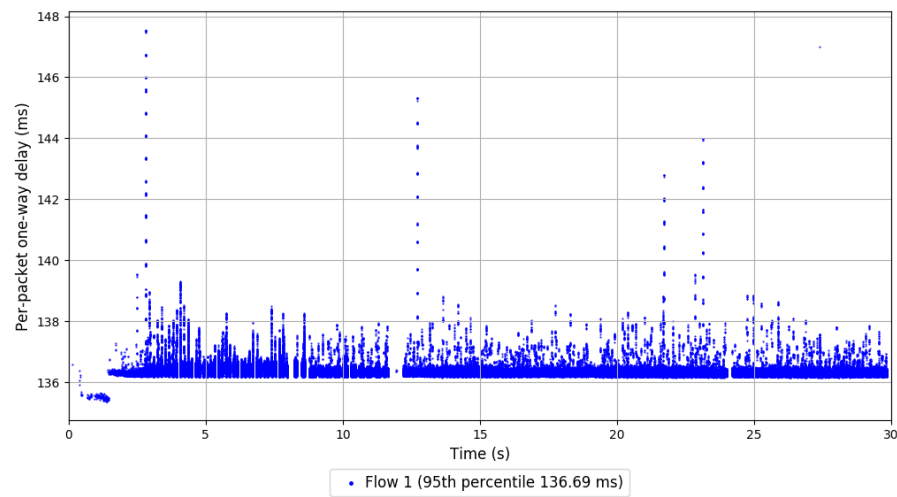
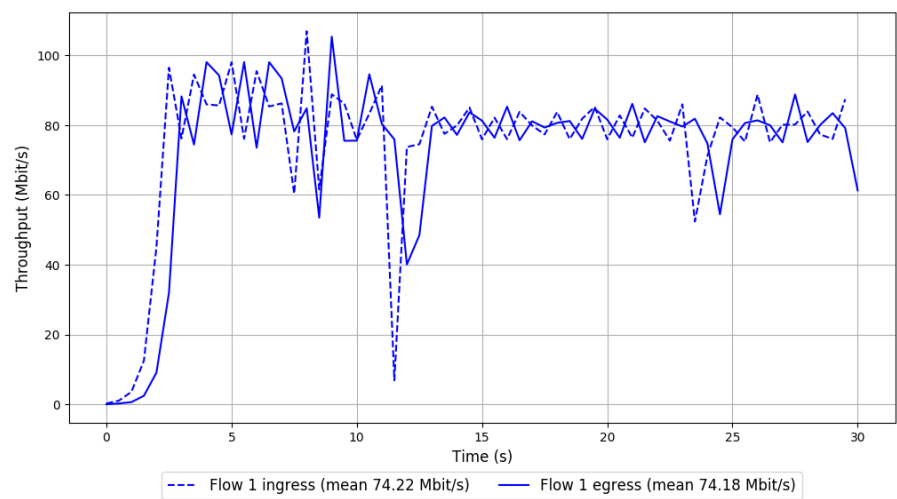
-- Flow 1:

Average throughput: 74.18 Mbit/s

95th percentile per-packet one-way delay: 136.693 ms

Loss rate: 0.96%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-01 00:55:37

End at: 2018-07-01 00:56:07

Local clock offset: 0.241 ms

Remote clock offset: 0.028 ms

Below is generated by plot.py at 2018-07-01 02:13:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.87 Mbit/s

95th percentile per-packet one-way delay: 136.428 ms

Loss rate: 1.20%

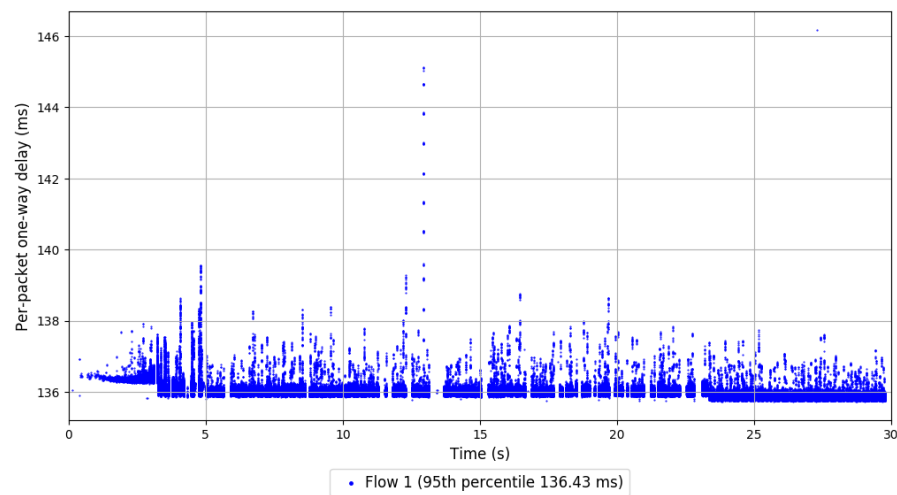
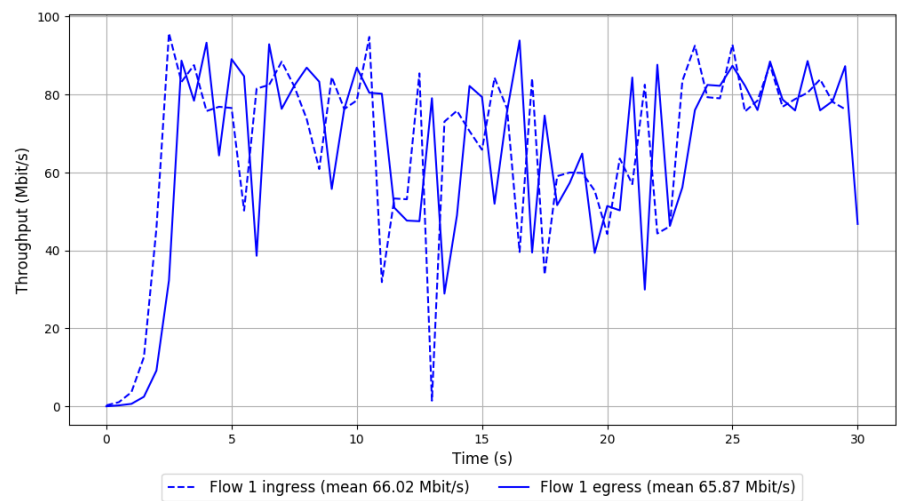
-- Flow 1:

Average throughput: 65.87 Mbit/s

95th percentile per-packet one-way delay: 136.428 ms

Loss rate: 1.20%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-01 01:17:55

End at: 2018-07-01 01:18:25

Local clock offset: 0.327 ms

Remote clock offset: -0.31 ms

Below is generated by plot.py at 2018-07-01 02:13:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.01 Mbit/s

95th percentile per-packet one-way delay: 136.872 ms

Loss rate: 1.05%

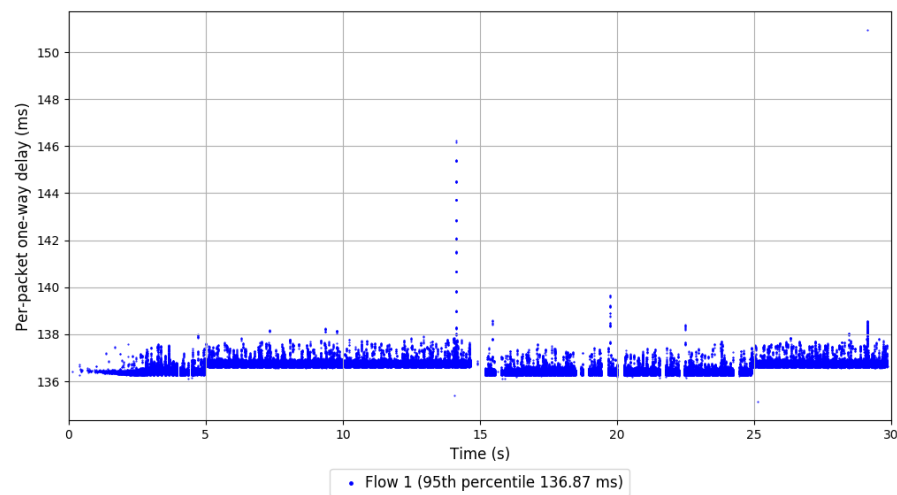
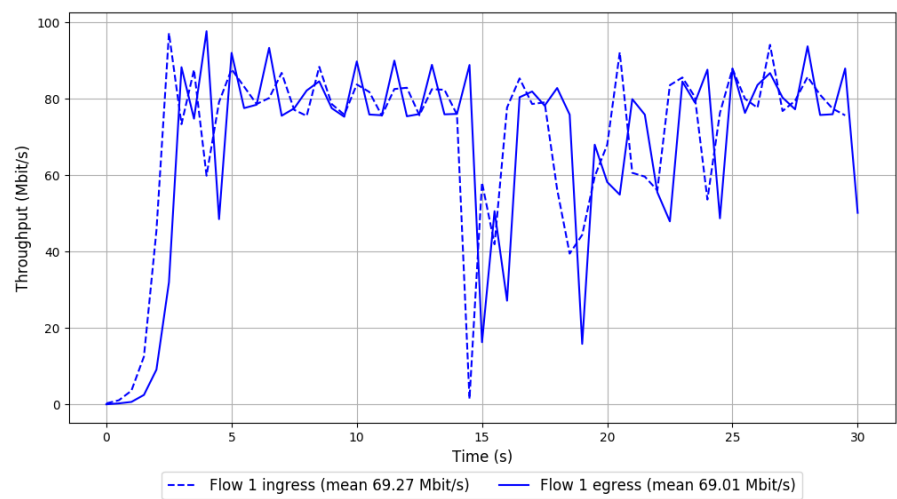
-- Flow 1:

Average throughput: 69.01 Mbit/s

95th percentile per-packet one-way delay: 136.872 ms

Loss rate: 1.05%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-01 01:40:09

End at: 2018-07-01 01:40:39

Local clock offset: 0.217 ms

Remote clock offset: 0.079 ms

Below is generated by plot.py at 2018-07-01 02:13:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.24 Mbit/s

95th percentile per-packet one-way delay: 136.338 ms

Loss rate: 1.12%

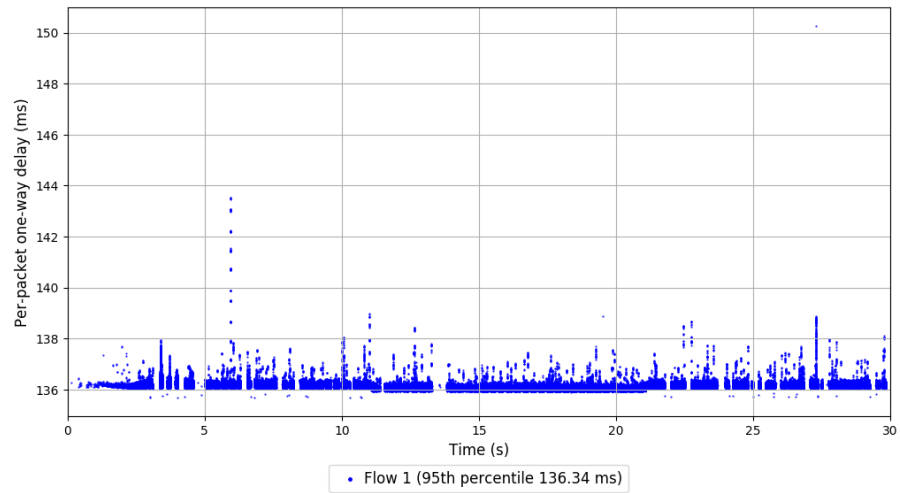
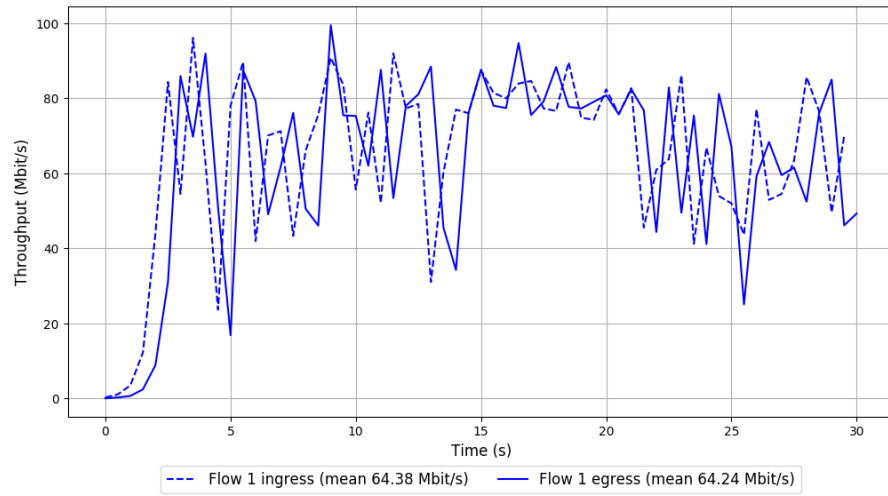
-- Flow 1:

Average throughput: 64.24 Mbit/s

95th percentile per-packet one-way delay: 136.338 ms

Loss rate: 1.12%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-01 02:02:16

End at: 2018-07-01 02:02:46

Local clock offset: 0.413 ms

Remote clock offset: 0.11 ms

Below is generated by plot.py at 2018-07-01 02:13:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.80 Mbit/s

95th percentile per-packet one-way delay: 136.544 ms

Loss rate: 1.33%

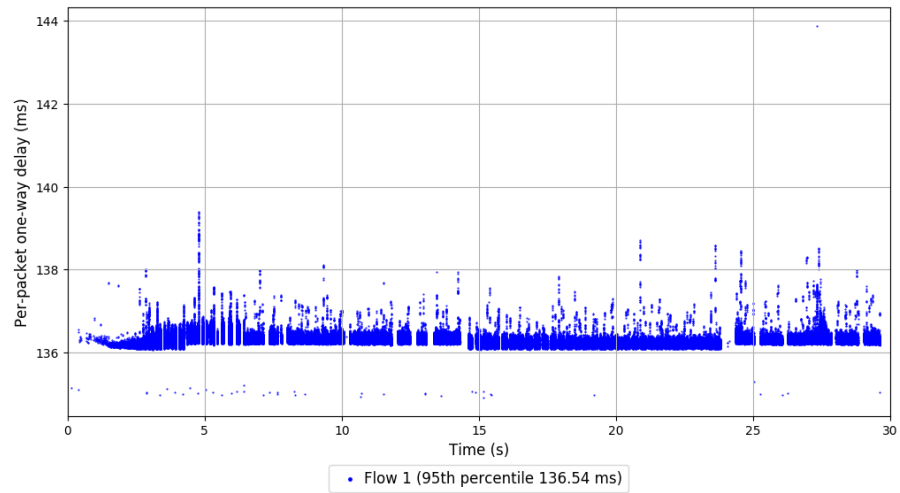
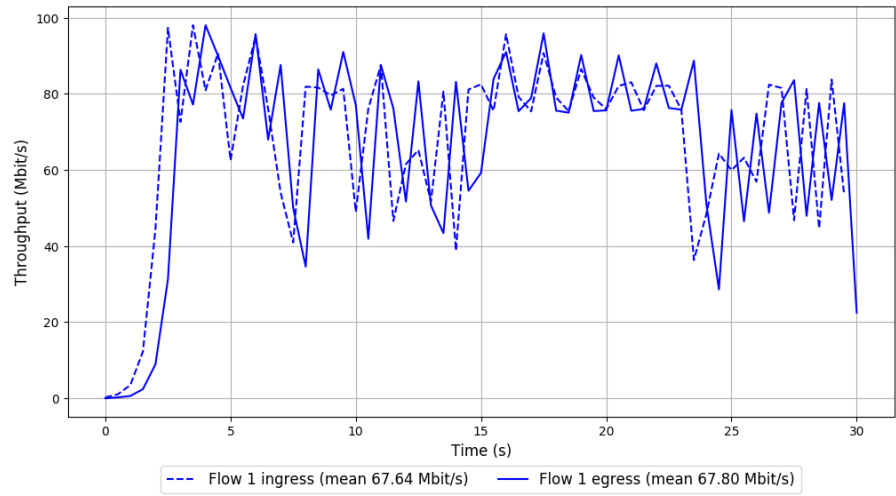
-- Flow 1:

Average throughput: 67.80 Mbit/s

95th percentile per-packet one-way delay: 136.544 ms

Loss rate: 1.33%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-06-30 22:31:00

End at: 2018-06-30 22:31:30

Local clock offset: 0.054 ms

Remote clock offset: 0.071 ms

Below is generated by plot.py at 2018-07-01 02:17:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.26 Mbit/s

95th percentile per-packet one-way delay: 173.738 ms

Loss rate: 0.27%

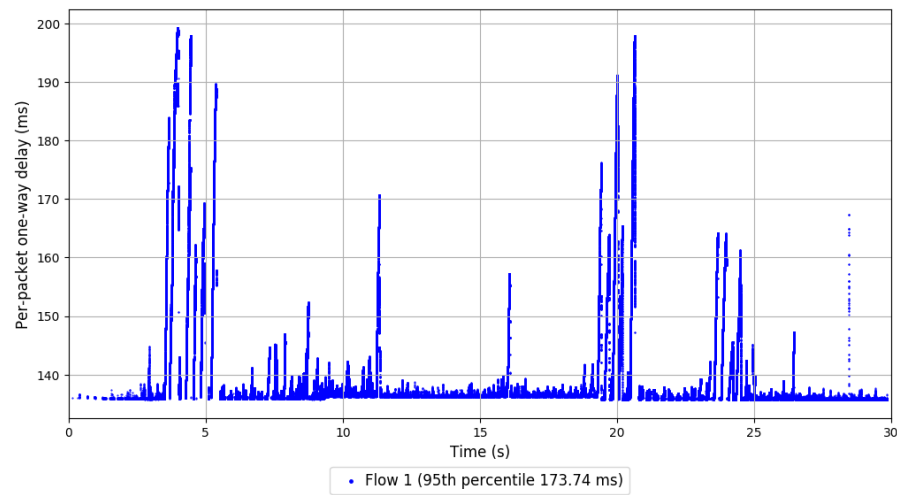
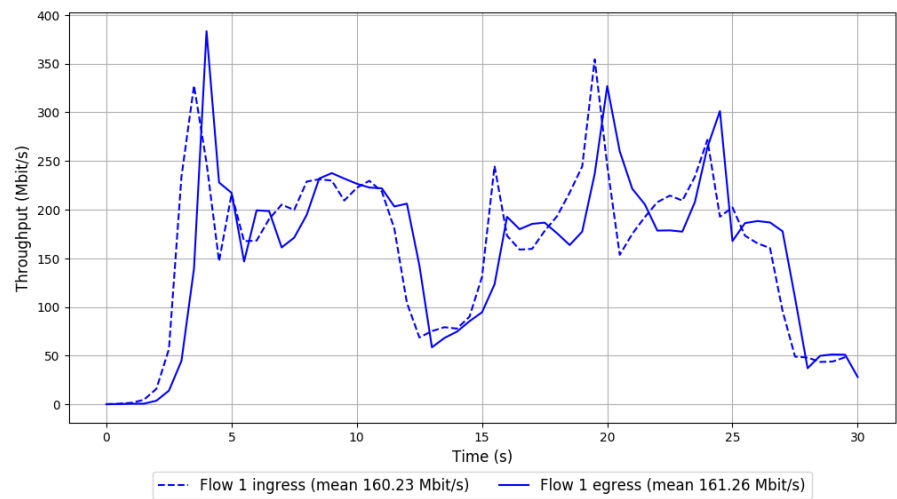
-- Flow 1:

Average throughput: 161.26 Mbit/s

95th percentile per-packet one-way delay: 173.738 ms

Loss rate: 0.27%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-06-30 22:53:04

End at: 2018-06-30 22:53:34

Local clock offset: -0.073 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-07-01 02:18:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.14 Mbit/s

95th percentile per-packet one-way delay: 161.245 ms

Loss rate: 0.66%

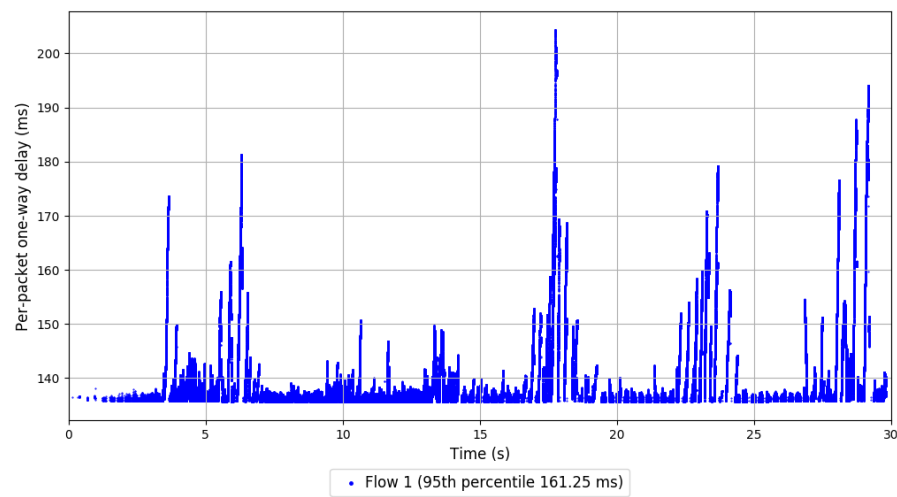
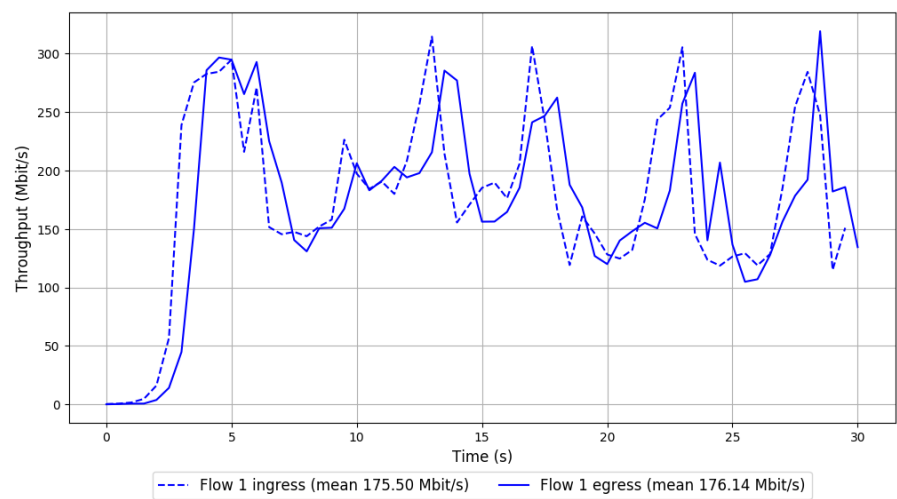
-- Flow 1:

Average throughput: 176.14 Mbit/s

95th percentile per-packet one-way delay: 161.245 ms

Loss rate: 0.66%

Run 2: Report of Copa — Data Link

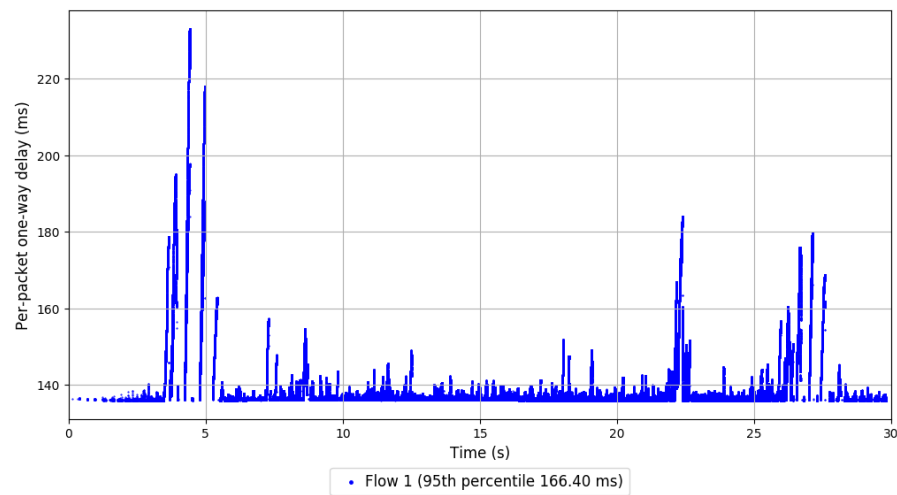
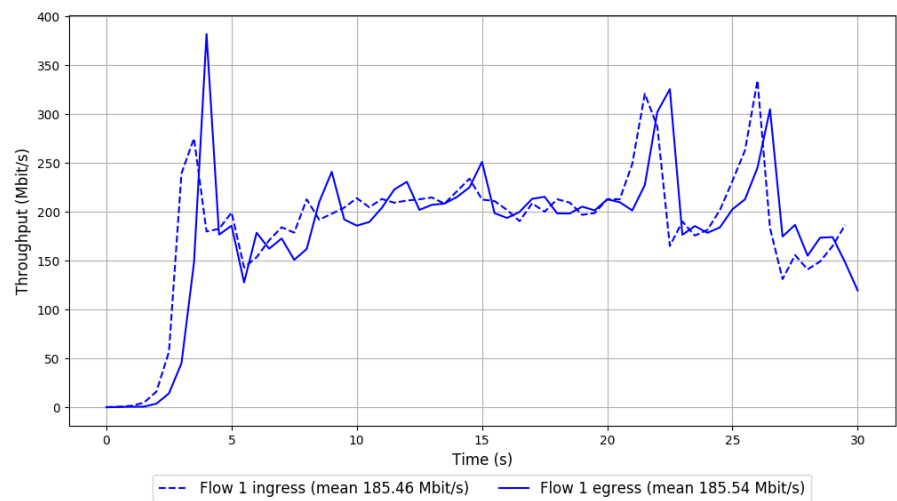


Run 3: Statistics of Copa

Start at: 2018-06-30 23:14:53
End at: 2018-06-30 23:15:23
Local clock offset: 0.187 ms
Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-07-01 02:18:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 185.54 Mbit/s
95th percentile per-packet one-way delay: 166.401 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 185.54 Mbit/s
95th percentile per-packet one-way delay: 166.401 ms
Loss rate: 0.87%

Run 3: Report of Copa — Data Link

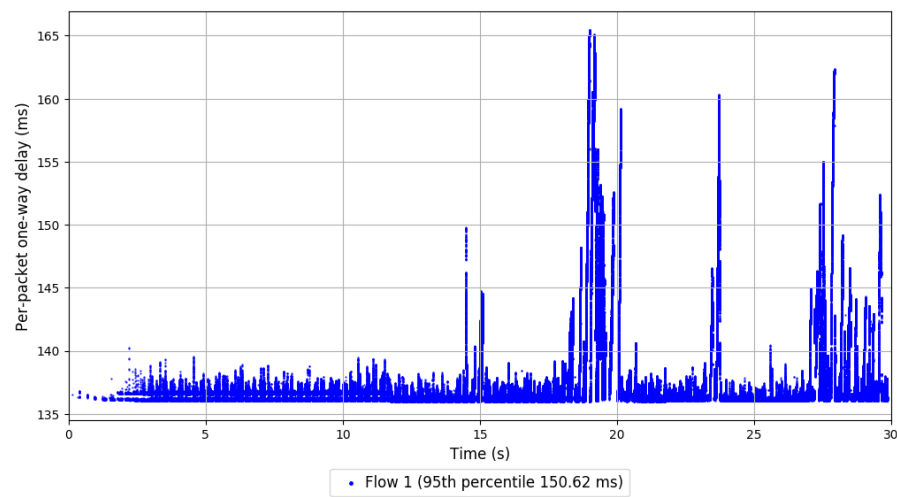
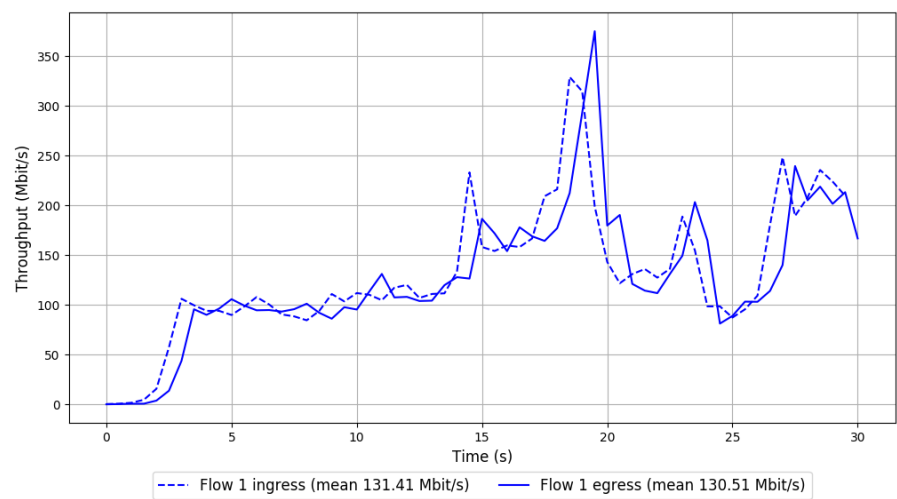


Run 4: Statistics of Copa

Start at: 2018-06-30 23:36:58
End at: 2018-06-30 23:37:28
Local clock offset: 0.067 ms
Remote clock offset: -0.288 ms

Below is generated by plot.py at 2018-07-01 02:18:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 130.51 Mbit/s
95th percentile per-packet one-way delay: 150.625 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 130.51 Mbit/s
95th percentile per-packet one-way delay: 150.625 ms
Loss rate: 1.58%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-06-30 23:58:48

End at: 2018-06-30 23:59:18

Local clock offset: 0.245 ms

Remote clock offset: 0.139 ms

Below is generated by plot.py at 2018-07-01 02:18:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.33 Mbit/s

95th percentile per-packet one-way delay: 186.392 ms

Loss rate: 2.69%

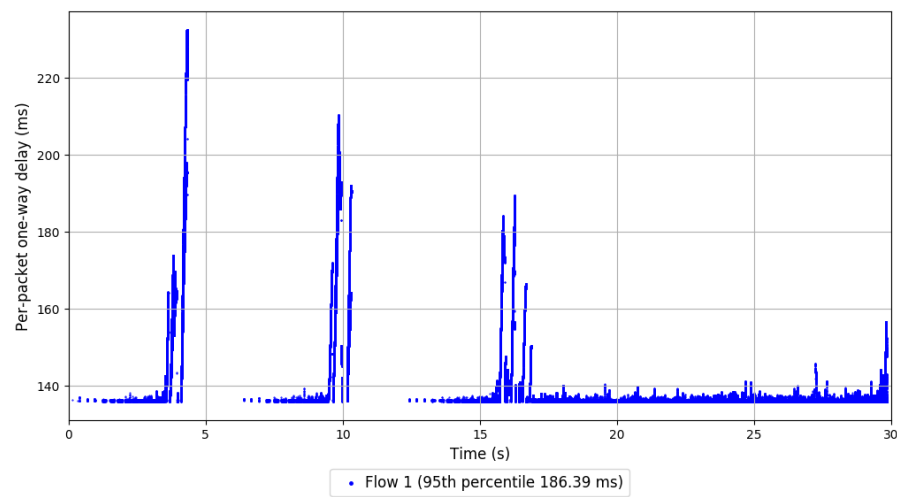
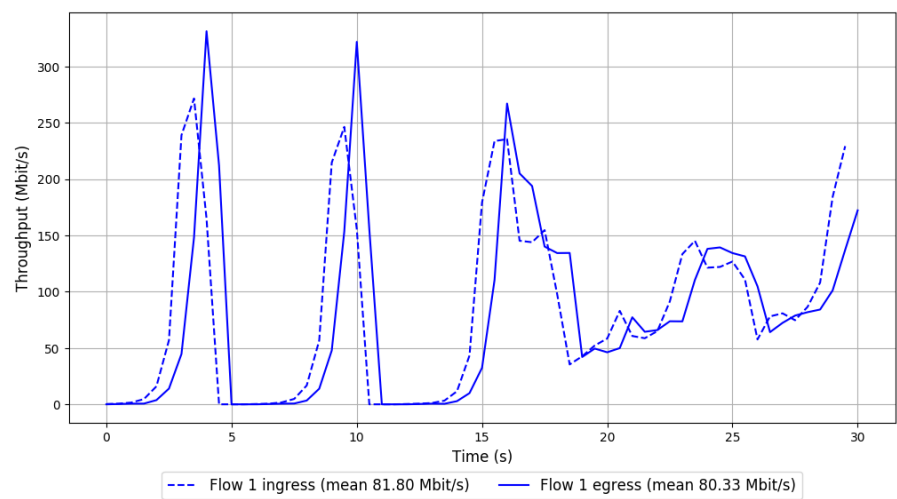
-- Flow 1:

Average throughput: 80.33 Mbit/s

95th percentile per-packet one-way delay: 186.392 ms

Loss rate: 2.69%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-01 00:20:44

End at: 2018-07-01 00:21:14

Local clock offset: 0.479 ms

Remote clock offset: 0.069 ms

Below is generated by plot.py at 2018-07-01 02:18:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.06 Mbit/s

95th percentile per-packet one-way delay: 147.560 ms

Loss rate: 1.02%

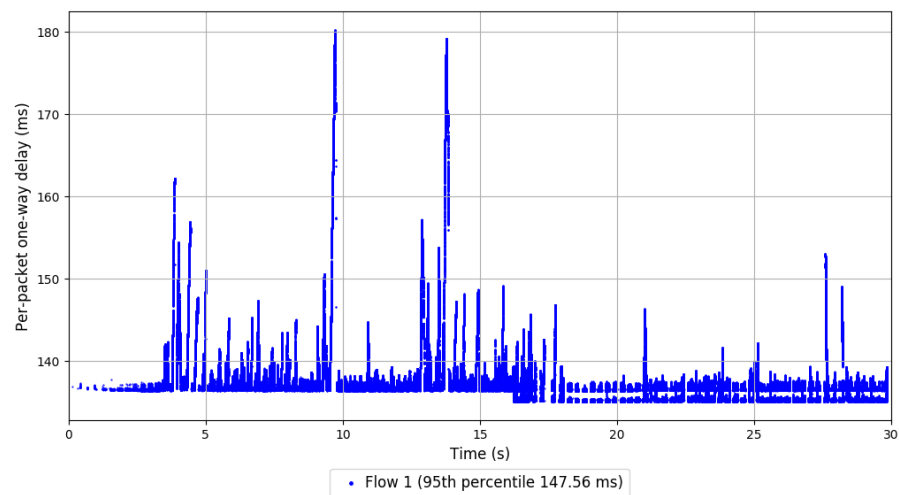
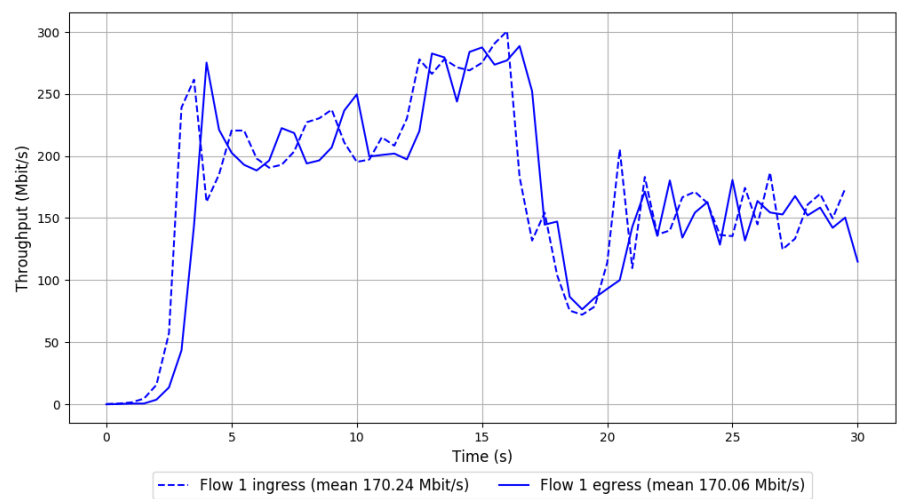
-- Flow 1:

Average throughput: 170.06 Mbit/s

95th percentile per-packet one-way delay: 147.560 ms

Loss rate: 1.02%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-01 00:42:46

End at: 2018-07-01 00:43:16

Local clock offset: 0.408 ms

Remote clock offset: 0.047 ms

Below is generated by plot.py at 2018-07-01 02:18:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.52 Mbit/s

95th percentile per-packet one-way delay: 173.914 ms

Loss rate: 0.90%

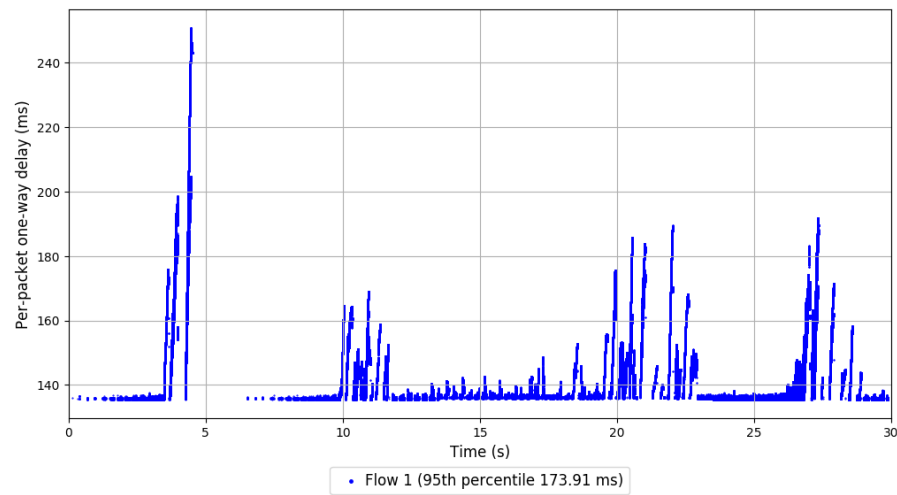
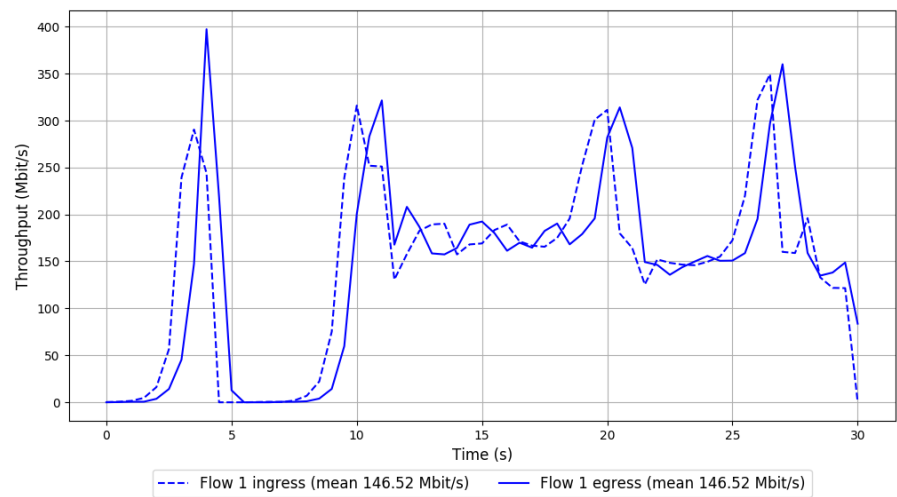
-- Flow 1:

Average throughput: 146.52 Mbit/s

95th percentile per-packet one-way delay: 173.914 ms

Loss rate: 0.90%

Run 7: Report of Copa — Data Link

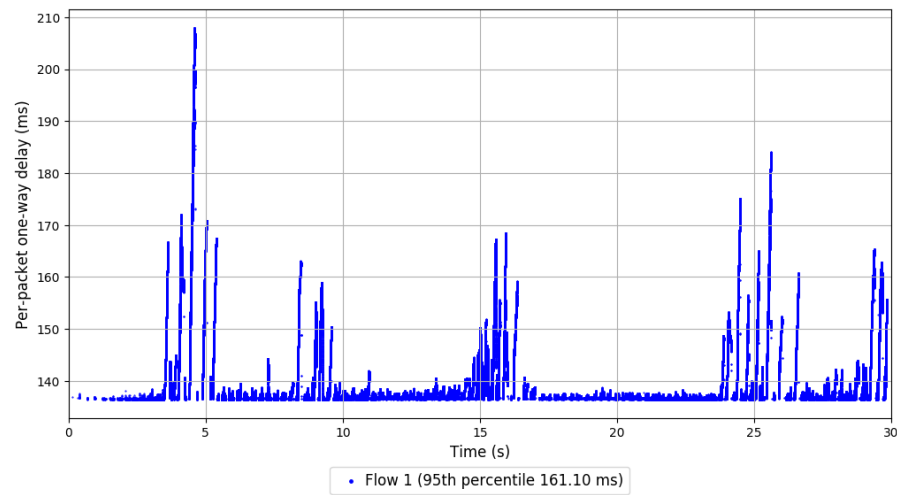
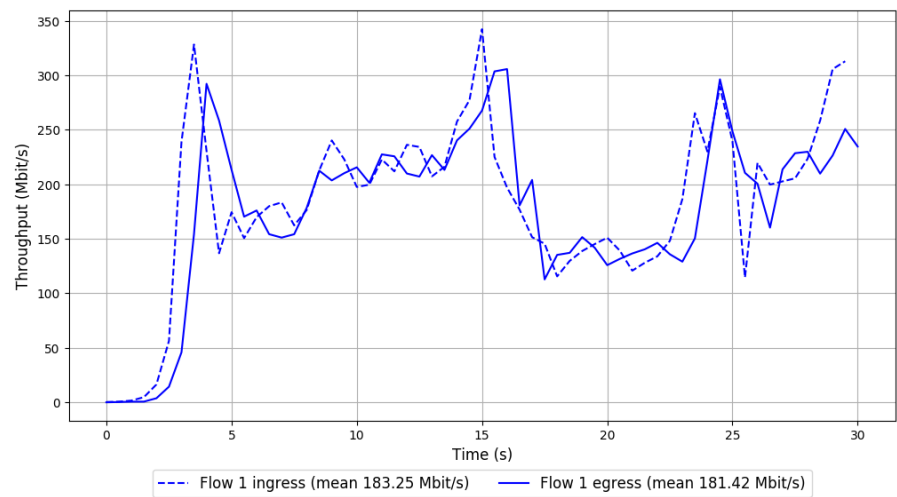


Run 8: Statistics of Copa

Start at: 2018-07-01 01:04:39
End at: 2018-07-01 01:05:09
Local clock offset: 0.598 ms
Remote clock offset: -0.303 ms

Below is generated by plot.py at 2018-07-01 02:20:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 181.42 Mbit/s
95th percentile per-packet one-way delay: 161.102 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 181.42 Mbit/s
95th percentile per-packet one-way delay: 161.102 ms
Loss rate: 1.90%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-01 01:27:07

End at: 2018-07-01 01:27:37

Local clock offset: 0.302 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2018-07-01 02:21:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.68 Mbit/s

95th percentile per-packet one-way delay: 152.936 ms

Loss rate: 1.30%

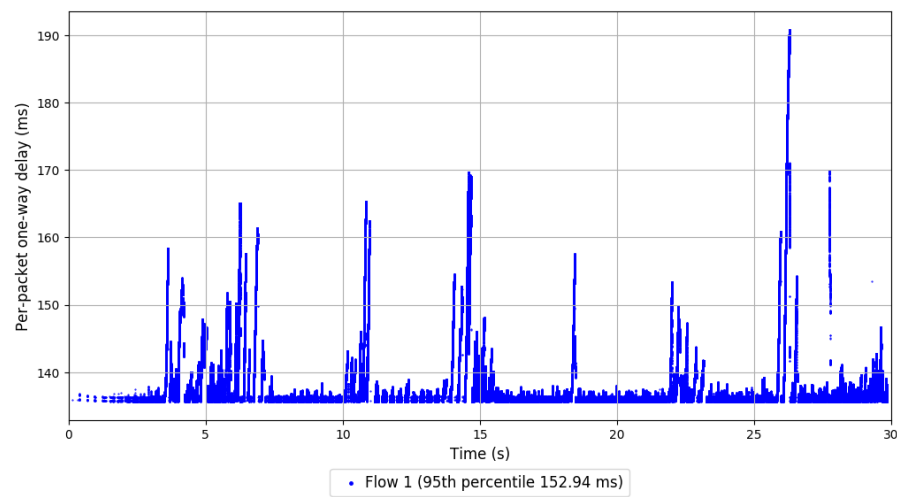
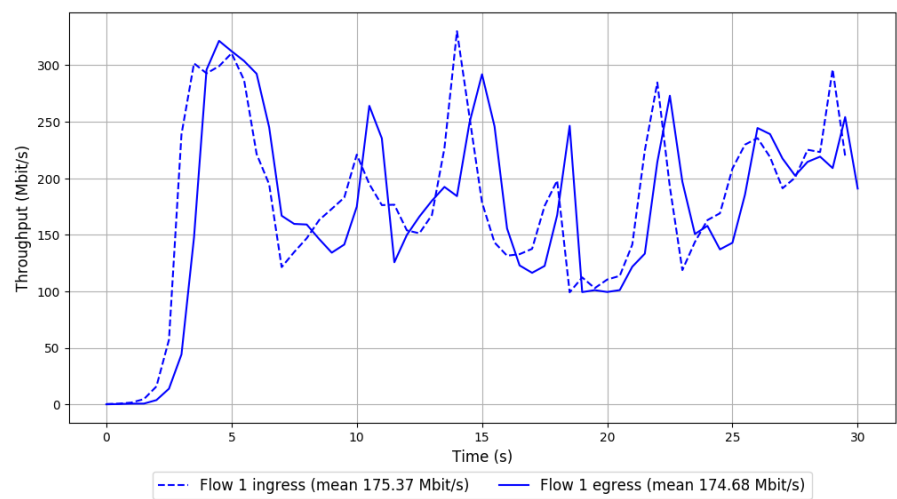
-- Flow 1:

Average throughput: 174.68 Mbit/s

95th percentile per-packet one-way delay: 152.936 ms

Loss rate: 1.30%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-01 01:49:20

End at: 2018-07-01 01:49:50

Local clock offset: 0.339 ms

Remote clock offset: 0.091 ms

Below is generated by plot.py at 2018-07-01 02:22:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.41 Mbit/s

95th percentile per-packet one-way delay: 147.772 ms

Loss rate: 0.43%

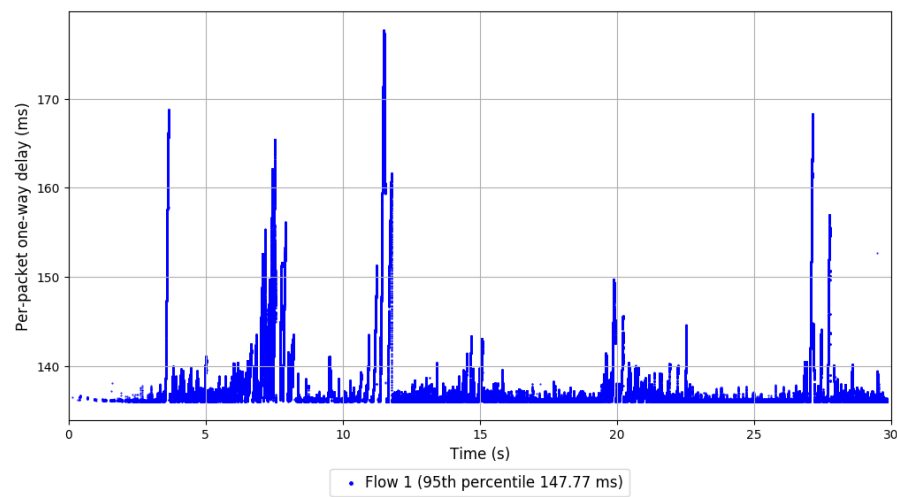
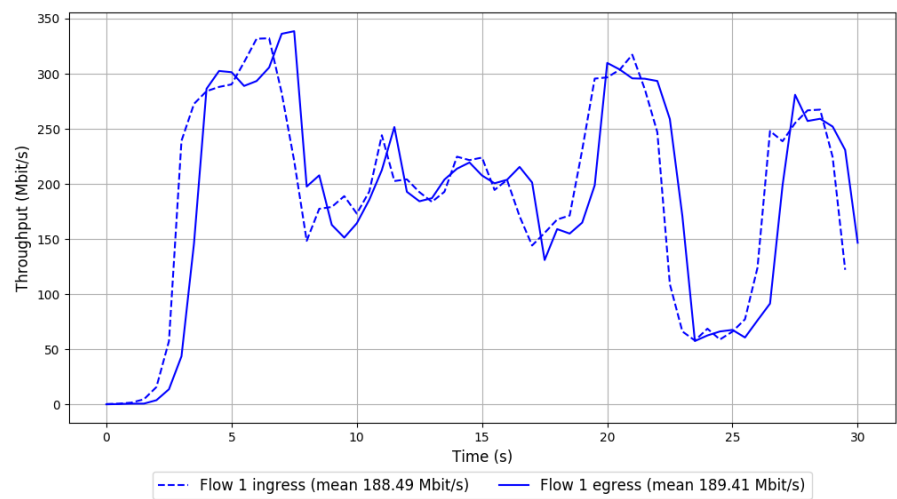
-- Flow 1:

Average throughput: 189.41 Mbit/s

95th percentile per-packet one-way delay: 147.772 ms

Loss rate: 0.43%

Run 10: Report of Copa — Data Link

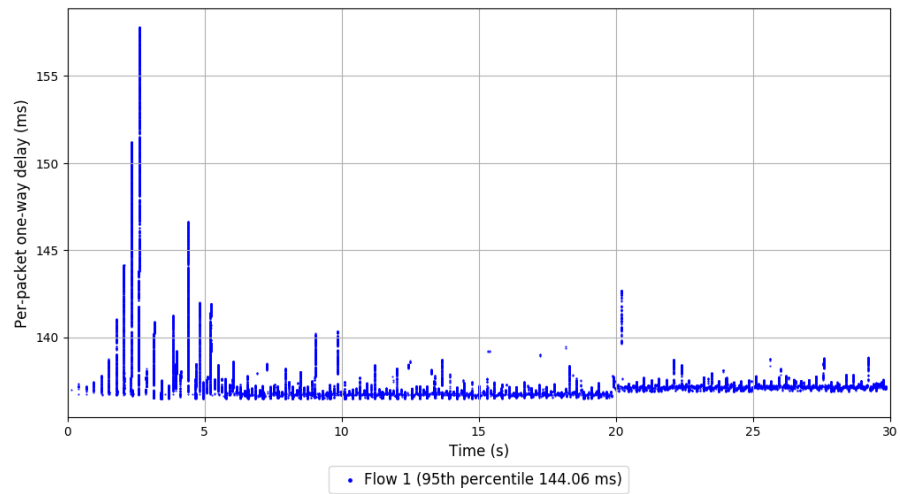
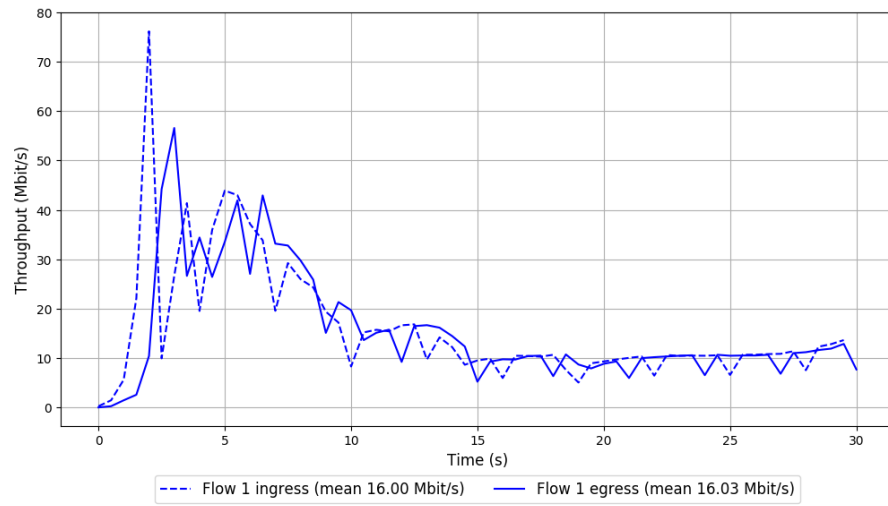


Run 1: Statistics of TCP Cubic

Start at: 2018-06-30 22:29:50
End at: 2018-06-30 22:30:20
Local clock offset: 0.234 ms
Remote clock offset: -0.399 ms

Below is generated by plot.py at 2018-07-01 02:22:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 16.03 Mbit/s
95th percentile per-packet one-way delay: 144.055 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 16.03 Mbit/s
95th percentile per-packet one-way delay: 144.055 ms
Loss rate: 0.77%

Run 1: Report of TCP Cubic — Data Link

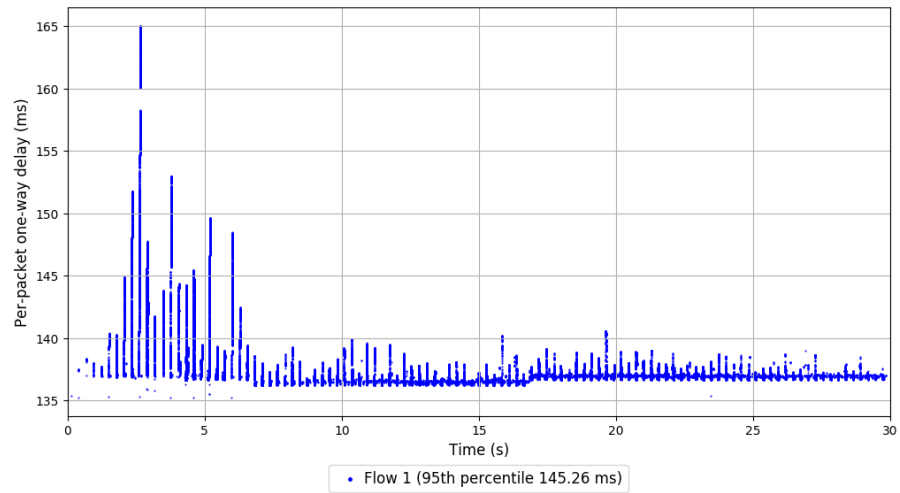
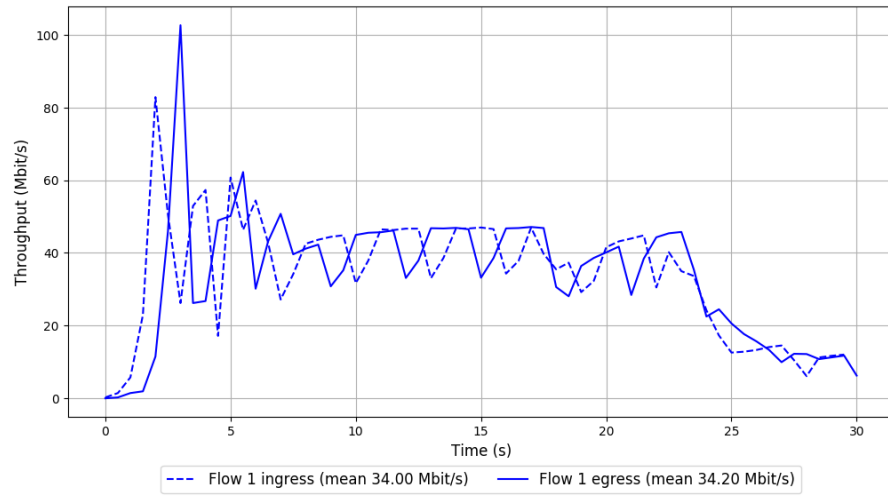


Run 2: Statistics of TCP Cubic

Start at: 2018-06-30 22:51:53
End at: 2018-06-30 22:52:23
Local clock offset: 0.077 ms
Remote clock offset: -0.394 ms

Below is generated by plot.py at 2018-07-01 02:22:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 34.20 Mbit/s
95th percentile per-packet one-way delay: 145.258 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 34.20 Mbit/s
95th percentile per-packet one-way delay: 145.258 ms
Loss rate: 0.31%

Run 2: Report of TCP Cubic — Data Link

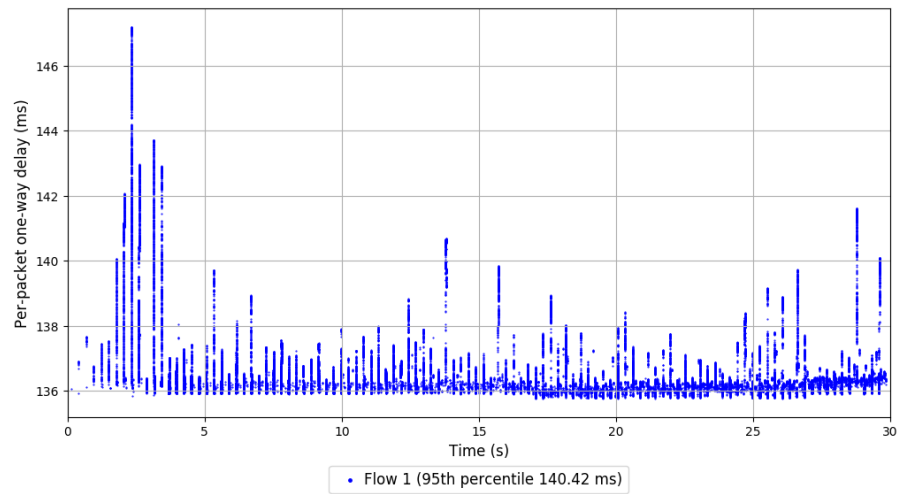
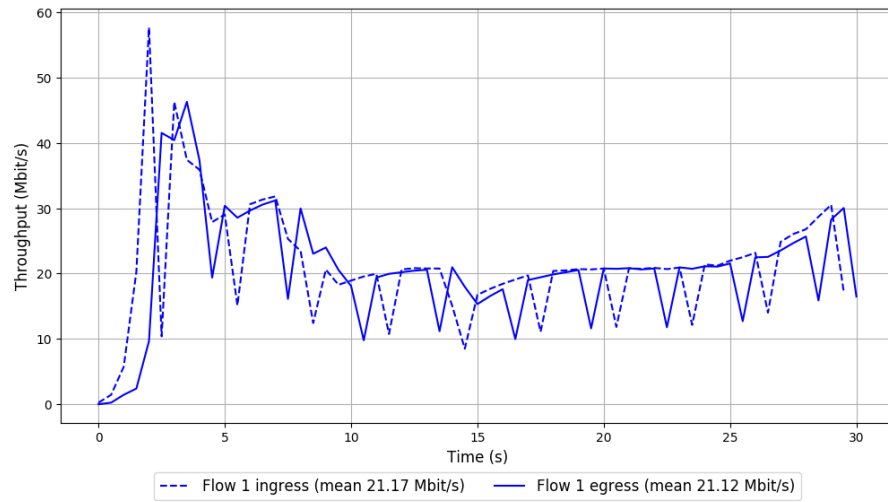


Run 3: Statistics of TCP Cubic

Start at: 2018-06-30 23:13:43
End at: 2018-06-30 23:14:13
Local clock offset: 0.091 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-07-01 02:22:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 21.12 Mbit/s
95th percentile per-packet one-way delay: 140.423 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 21.12 Mbit/s
95th percentile per-packet one-way delay: 140.423 ms
Loss rate: 1.14%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-06-30 23:35:47

End at: 2018-06-30 23:36:17

Local clock offset: -0.02 ms

Remote clock offset: 0.064 ms

Below is generated by plot.py at 2018-07-01 02:22:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.44 Mbit/s

95th percentile per-packet one-way delay: 146.495 ms

Loss rate: 0.65%

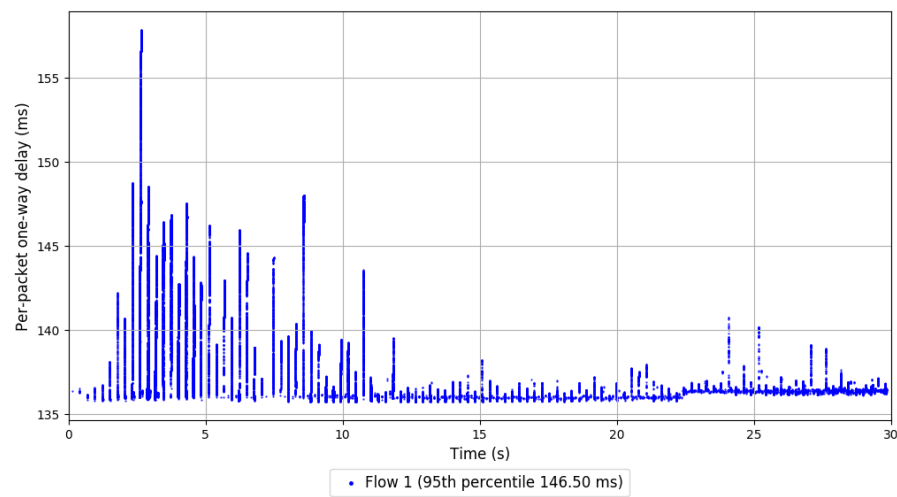
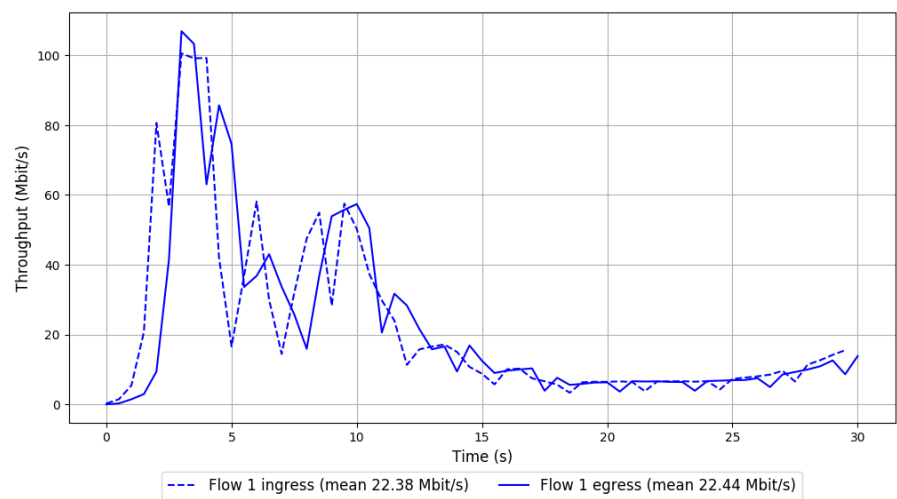
-- Flow 1:

Average throughput: 22.44 Mbit/s

95th percentile per-packet one-way delay: 146.495 ms

Loss rate: 0.65%

Run 4: Report of TCP Cubic — Data Link

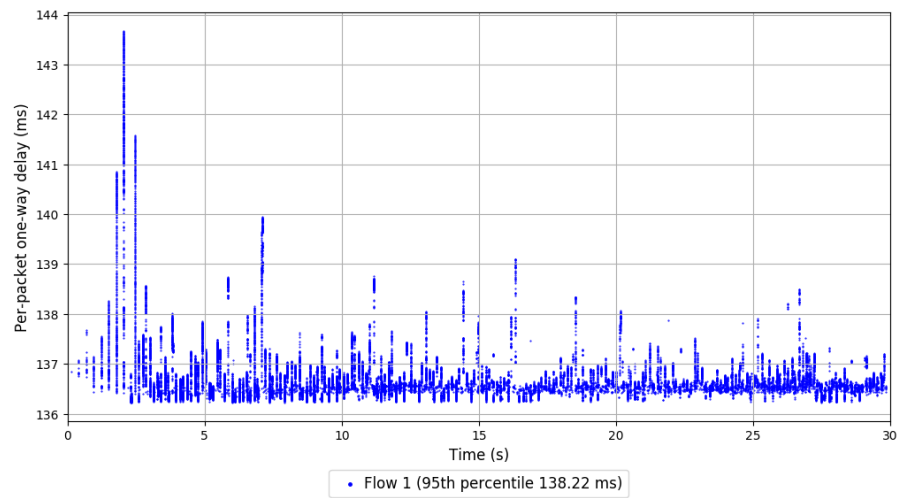
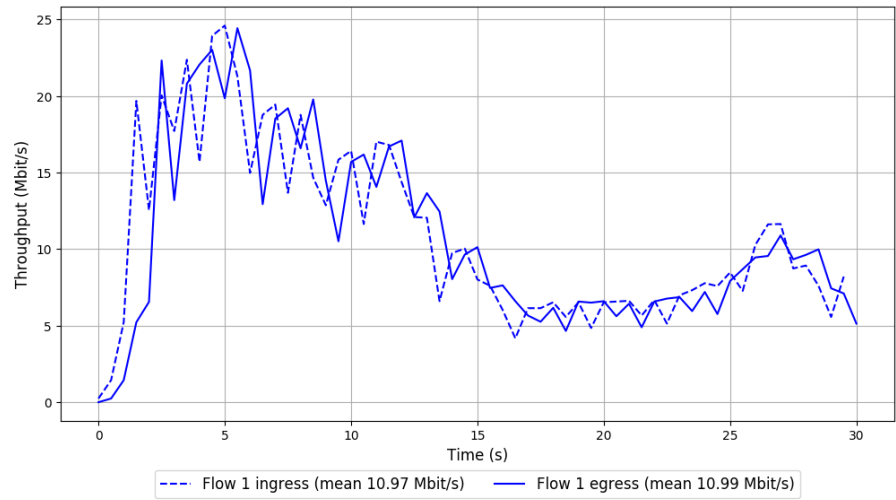


Run 5: Statistics of TCP Cubic

Start at: 2018-06-30 23:57:38
End at: 2018-06-30 23:58:08
Local clock offset: 0.114 ms
Remote clock offset: -0.294 ms

Below is generated by plot.py at 2018-07-01 02:22:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 10.99 Mbit/s
95th percentile per-packet one-way delay: 138.225 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 10.99 Mbit/s
95th percentile per-packet one-way delay: 138.225 ms
Loss rate: 0.68%

Run 5: Report of TCP Cubic — Data Link

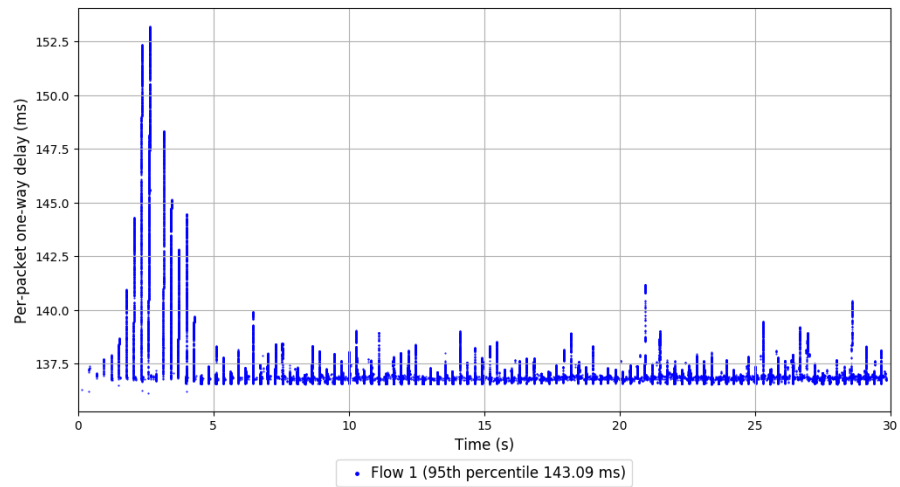
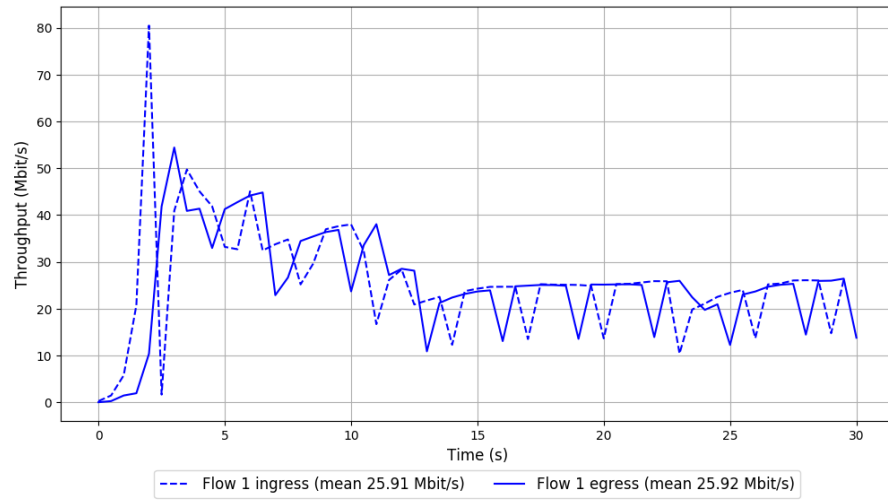


Run 6: Statistics of TCP Cubic

Start at: 2018-07-01 00:19:33
End at: 2018-07-01 00:20:03
Local clock offset: 0.226 ms
Remote clock offset: -0.327 ms

Below is generated by plot.py at 2018-07-01 02:22:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 25.92 Mbit/s
95th percentile per-packet one-way delay: 143.091 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 25.92 Mbit/s
95th percentile per-packet one-way delay: 143.091 ms
Loss rate: 0.87%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-01 00:41:32

End at: 2018-07-01 00:42:02

Local clock offset: 0.454 ms

Remote clock offset: 0.036 ms

Below is generated by plot.py at 2018-07-01 02:22:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.02 Mbit/s

95th percentile per-packet one-way delay: 147.192 ms

Loss rate: 0.98%

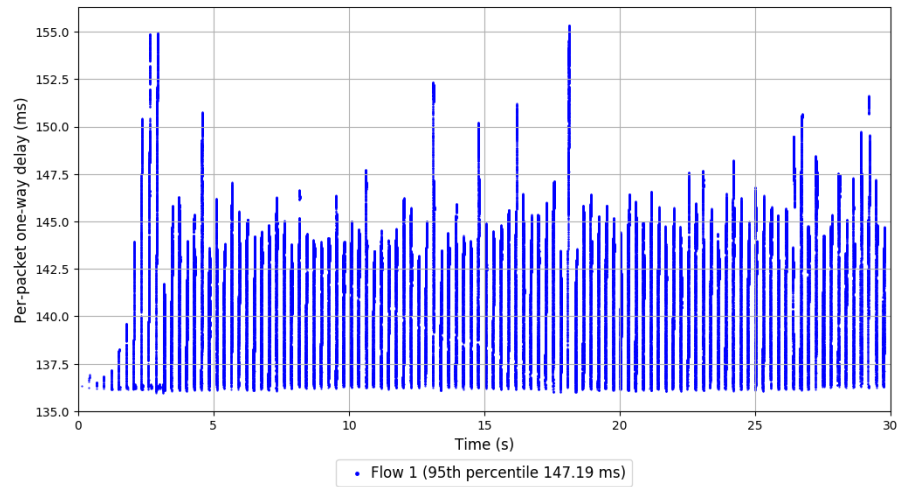
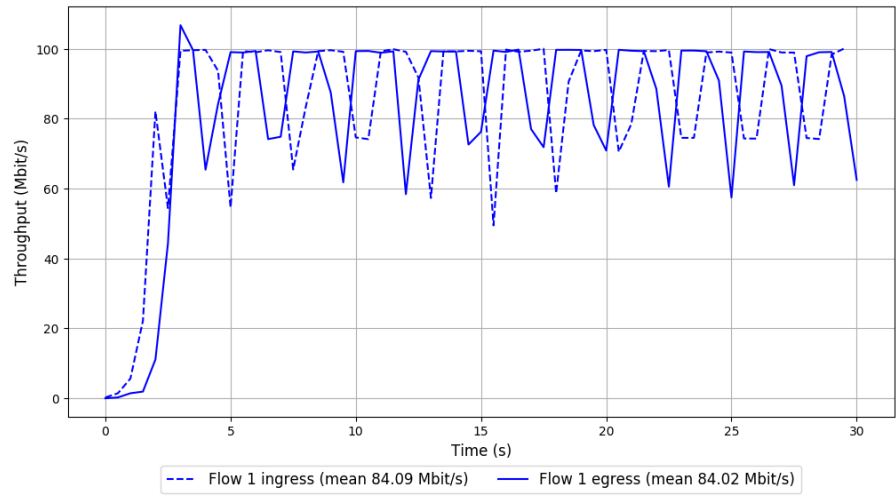
-- Flow 1:

Average throughput: 84.02 Mbit/s

95th percentile per-packet one-way delay: 147.192 ms

Loss rate: 0.98%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-01 01:03:28

End at: 2018-07-01 01:03:58

Local clock offset: 0.287 ms

Remote clock offset: 0.049 ms

Below is generated by plot.py at 2018-07-01 02:22:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.47 Mbit/s

95th percentile per-packet one-way delay: 141.742 ms

Loss rate: 1.68%

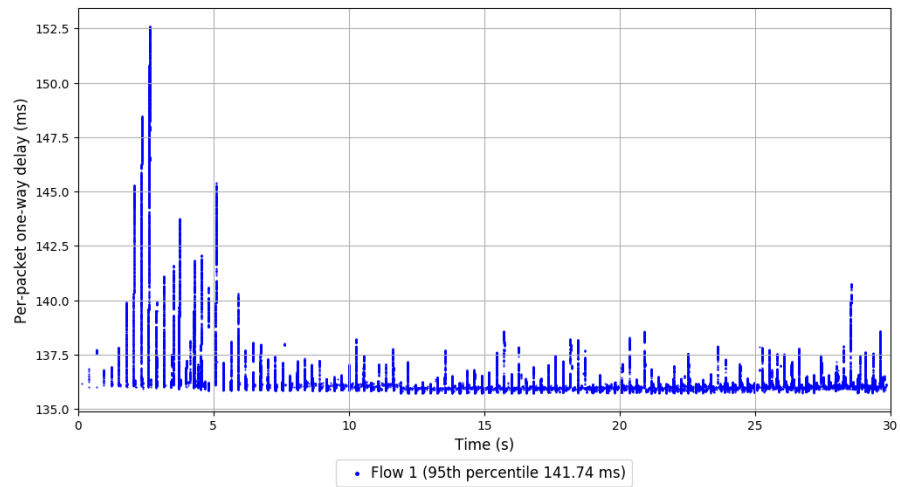
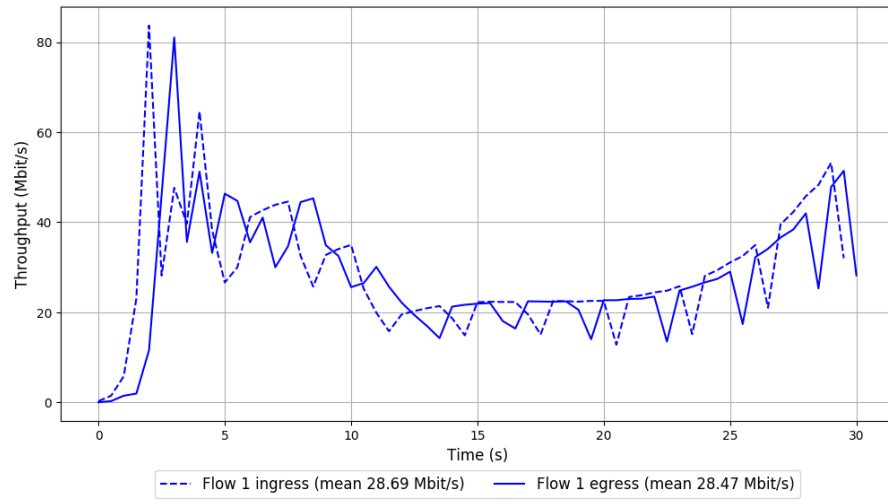
-- Flow 1:

Average throughput: 28.47 Mbit/s

95th percentile per-packet one-way delay: 141.742 ms

Loss rate: 1.68%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-01 01:25:55

End at: 2018-07-01 01:26:25

Local clock offset: 0.265 ms

Remote clock offset: 0.036 ms

Below is generated by plot.py at 2018-07-01 02:22:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.00 Mbit/s

95th percentile per-packet one-way delay: 145.813 ms

Loss rate: 0.23%

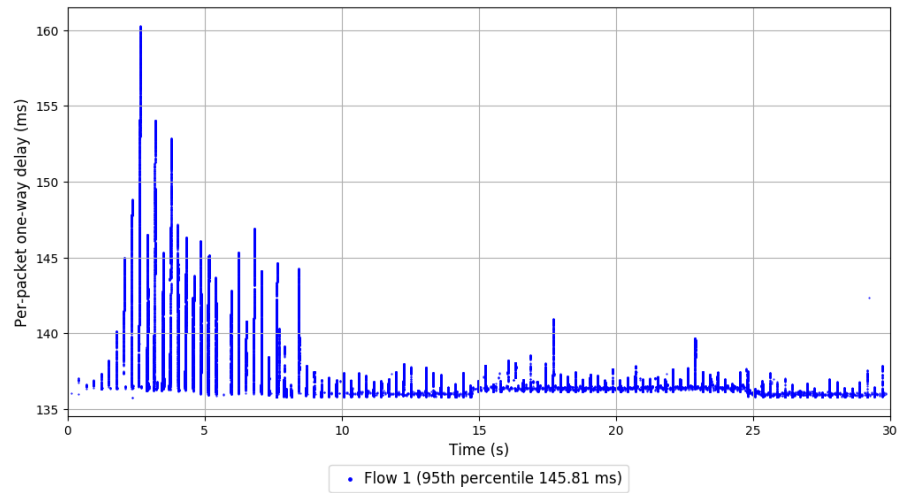
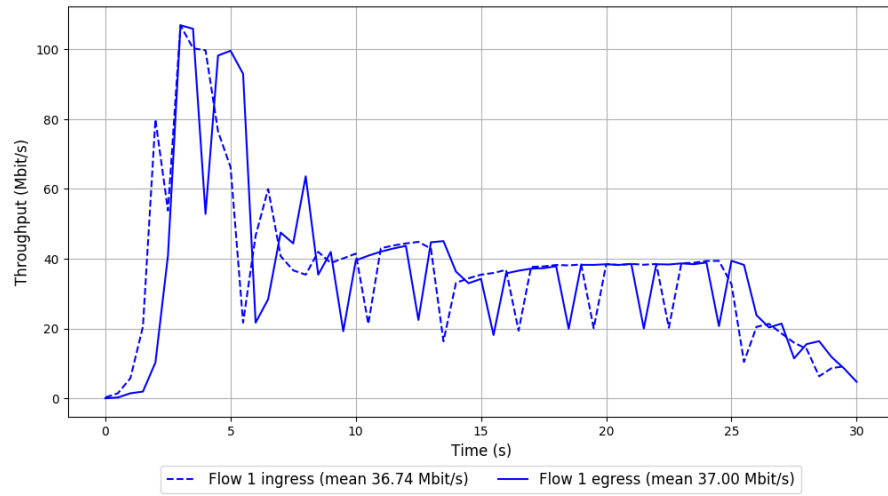
-- Flow 1:

Average throughput: 37.00 Mbit/s

95th percentile per-packet one-way delay: 145.813 ms

Loss rate: 0.23%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-01 01:48:09

End at: 2018-07-01 01:48:39

Local clock offset: 0.328 ms

Remote clock offset: 0.104 ms

Below is generated by plot.py at 2018-07-01 02:22:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.31 Mbit/s

95th percentile per-packet one-way delay: 149.686 ms

Loss rate: 0.19%

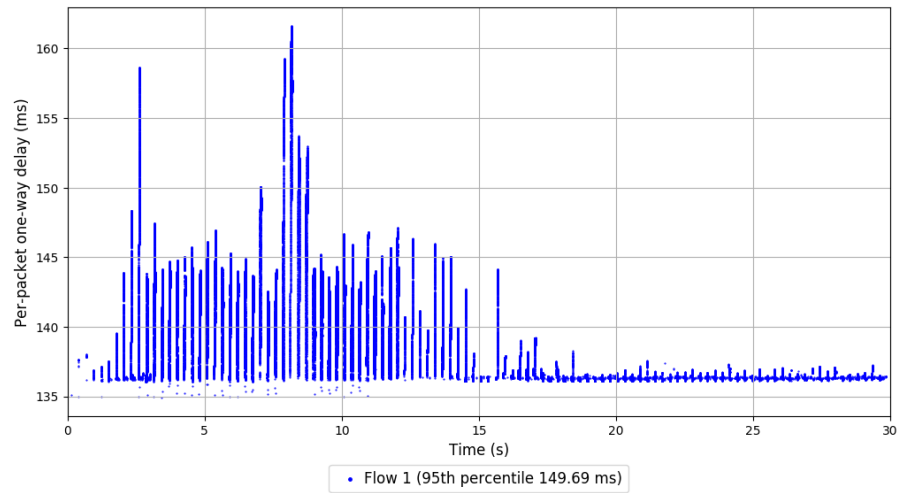
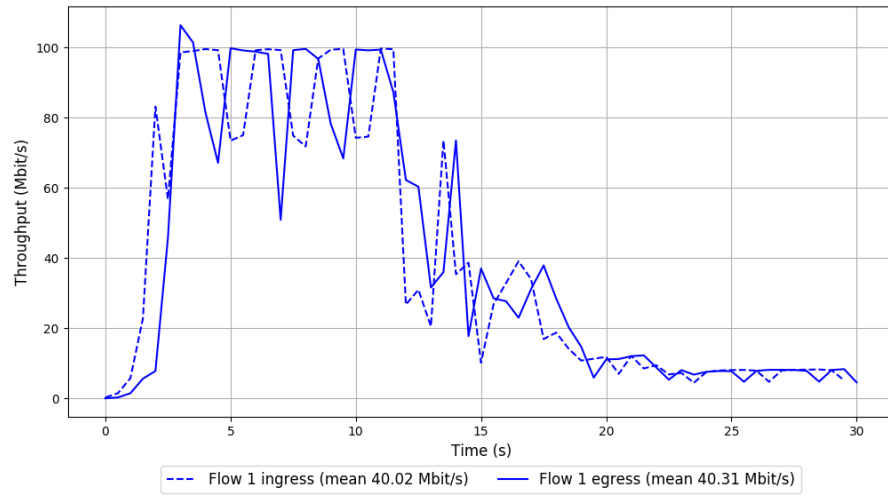
-- Flow 1:

Average throughput: 40.31 Mbit/s

95th percentile per-packet one-way delay: 149.686 ms

Loss rate: 0.19%

Run 10: Report of TCP Cubic — Data Link

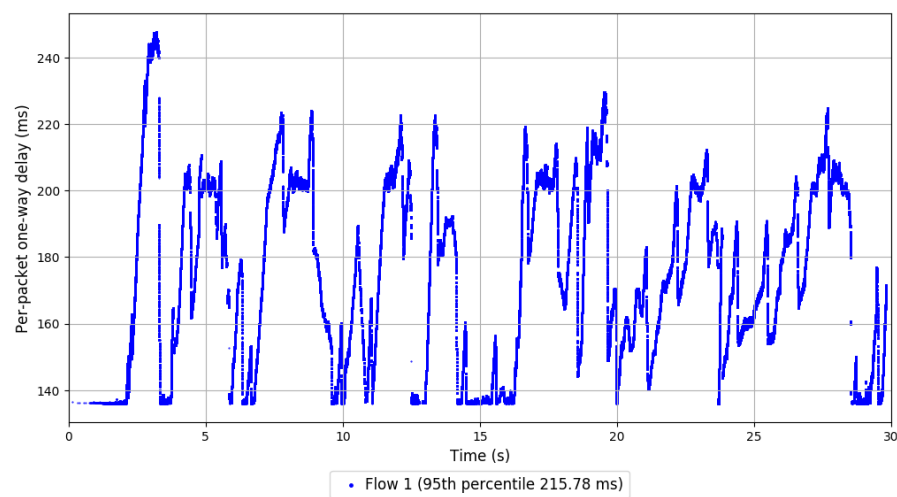
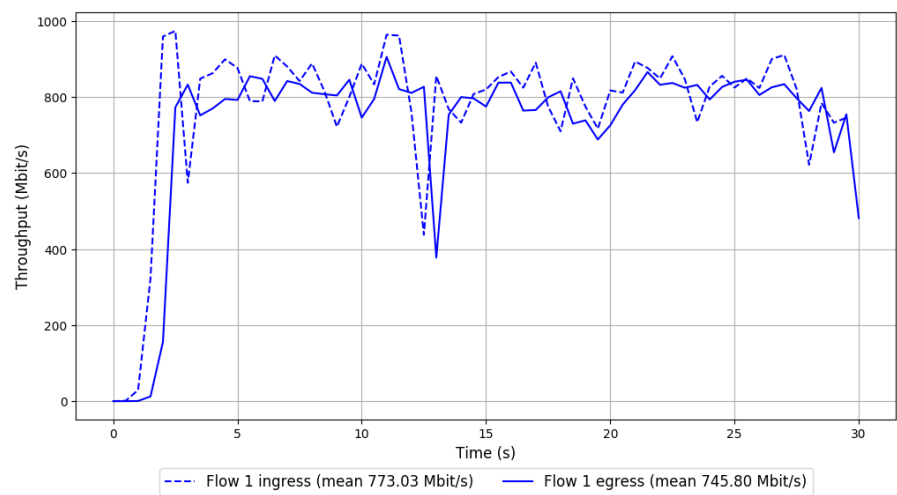


Run 1: Statistics of FillP

Start at: 2018-06-30 22:28:06
End at: 2018-06-30 22:28:36
Local clock offset: -0.229 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-07-01 02:35:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 745.80 Mbit/s
95th percentile per-packet one-way delay: 215.780 ms
Loss rate: 4.40%
-- Flow 1:
Average throughput: 745.80 Mbit/s
95th percentile per-packet one-way delay: 215.780 ms
Loss rate: 4.40%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-06-30 22:50:11

End at: 2018-06-30 22:50:41

Local clock offset: 0.111 ms

Remote clock offset: 0.341 ms

Below is generated by plot.py at 2018-07-01 02:35:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 679.15 Mbit/s

95th percentile per-packet one-way delay: 310.700 ms

Loss rate: 6.81%

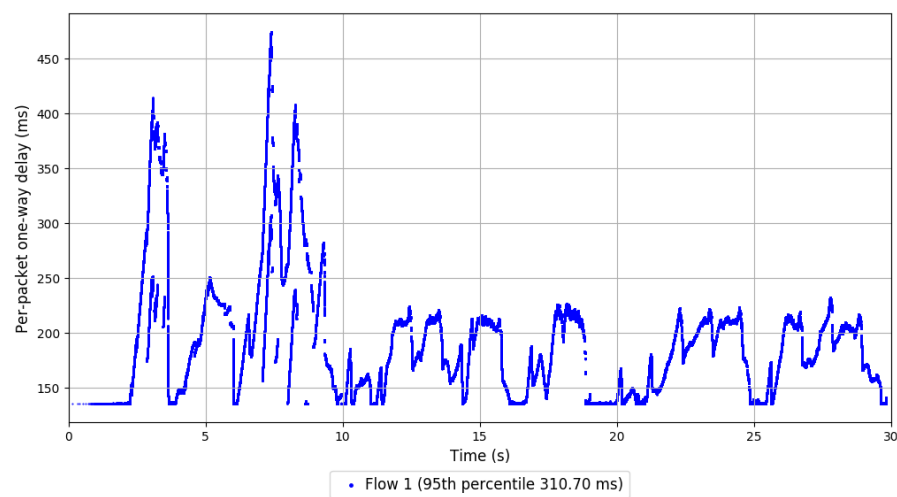
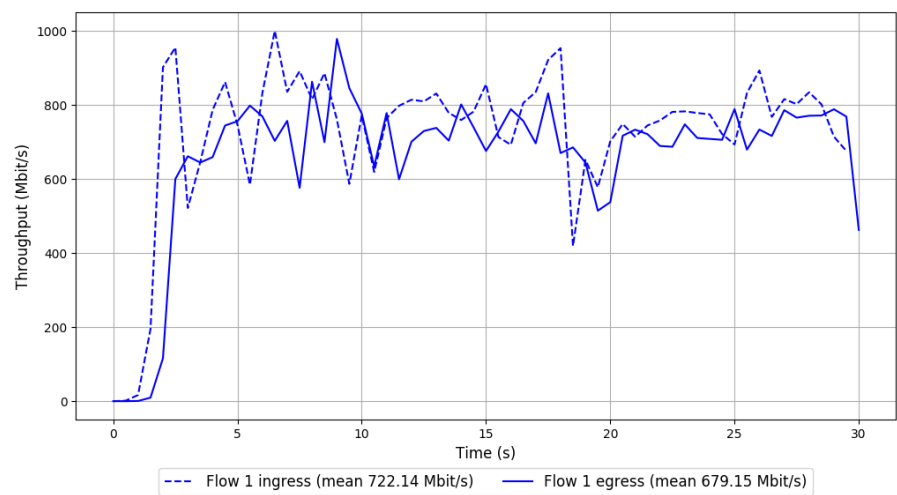
-- Flow 1:

Average throughput: 679.15 Mbit/s

95th percentile per-packet one-way delay: 310.700 ms

Loss rate: 6.81%

Run 2: Report of FillP — Data Link

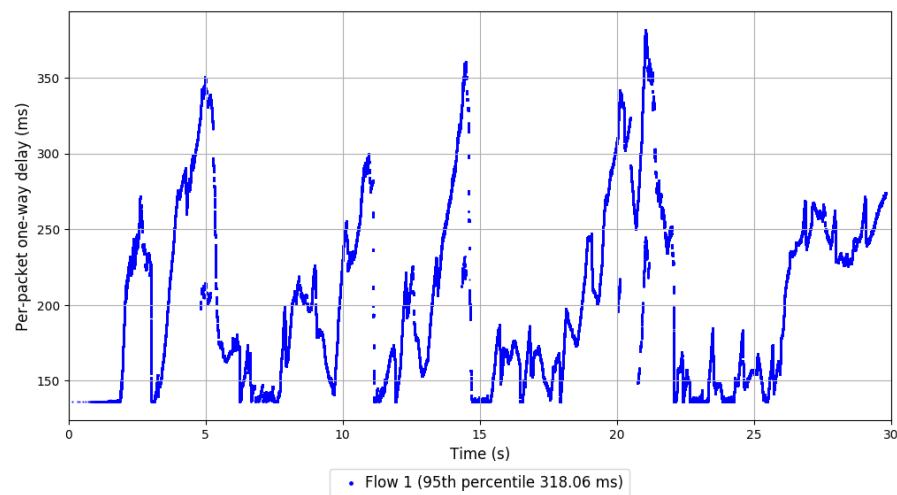
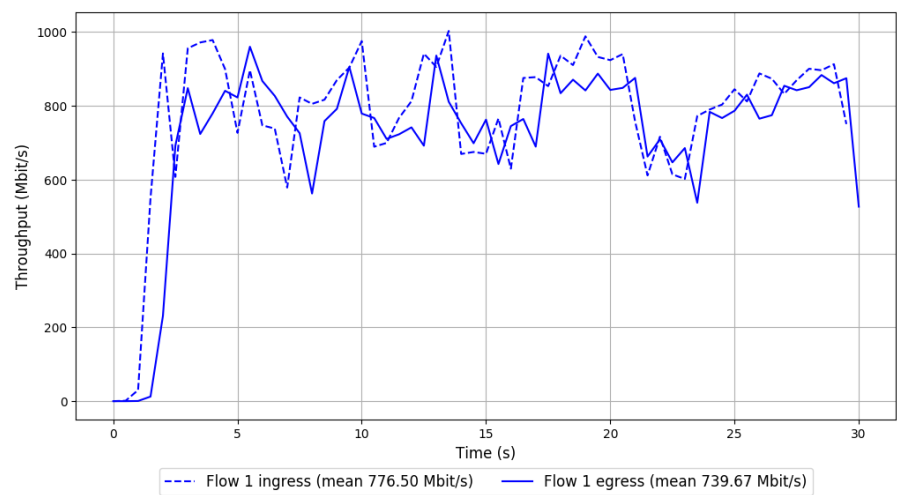


Run 3: Statistics of FillP

Start at: 2018-06-30 23:11:58
End at: 2018-06-30 23:12:28
Local clock offset: 0.111 ms
Remote clock offset: -0.268 ms

Below is generated by plot.py at 2018-07-01 02:35:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 739.67 Mbit/s
95th percentile per-packet one-way delay: 318.060 ms
Loss rate: 5.61%
-- Flow 1:
Average throughput: 739.67 Mbit/s
95th percentile per-packet one-way delay: 318.060 ms
Loss rate: 5.61%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-06-30 23:34:07

End at: 2018-06-30 23:34:37

Local clock offset: -0.13 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2018-07-01 02:35:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 635.30 Mbit/s

95th percentile per-packet one-way delay: 226.050 ms

Loss rate: 9.33%

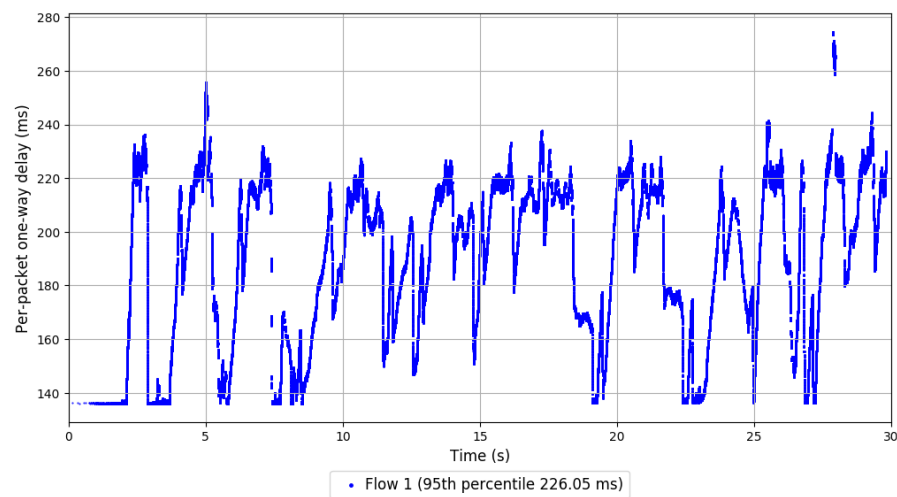
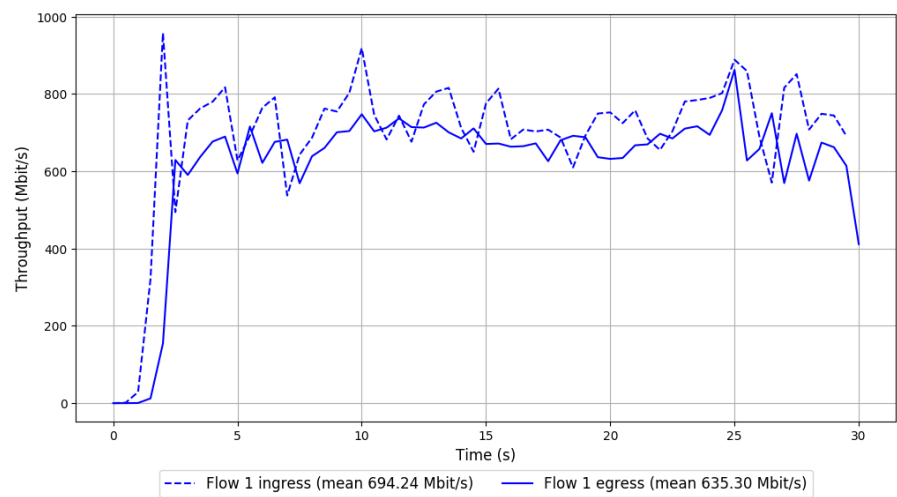
-- Flow 1:

Average throughput: 635.30 Mbit/s

95th percentile per-packet one-way delay: 226.050 ms

Loss rate: 9.33%

Run 4: Report of FillP — Data Link

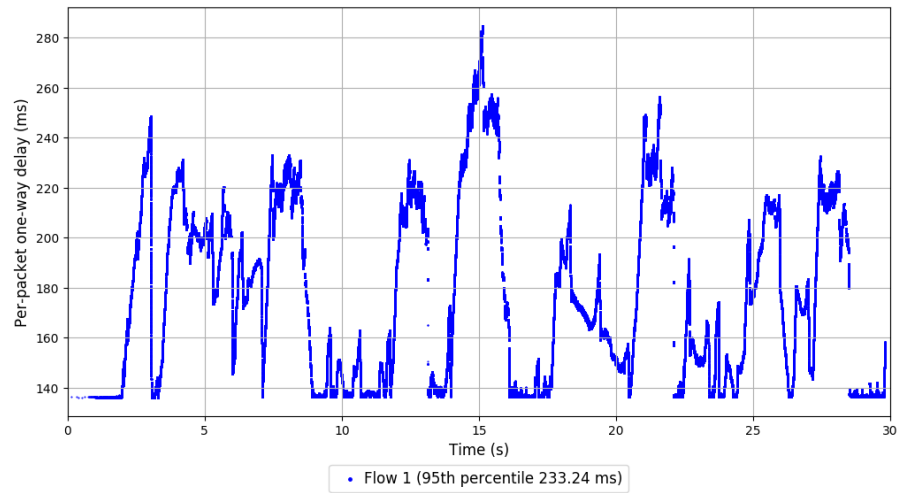
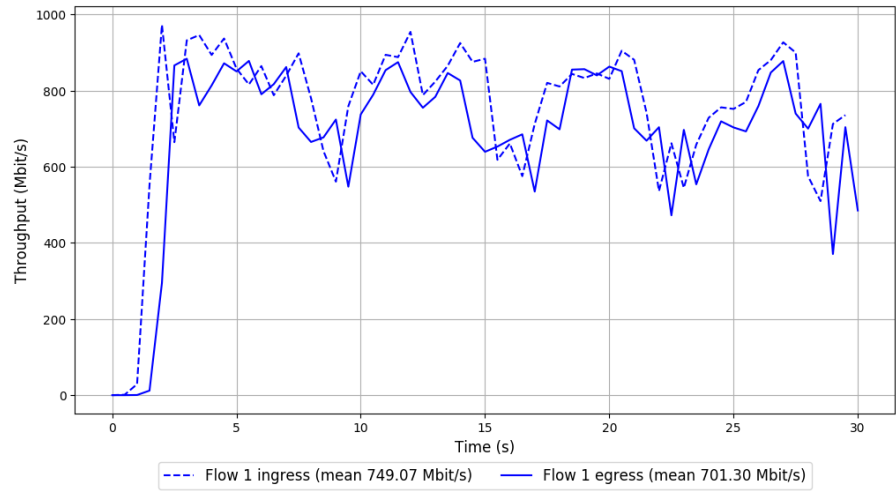


Run 5: Statistics of FillP

Start at: 2018-06-30 23:55:55
End at: 2018-06-30 23:56:25
Local clock offset: 0.378 ms
Remote clock offset: -0.276 ms

Below is generated by plot.py at 2018-07-01 02:35:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 701.30 Mbit/s
95th percentile per-packet one-way delay: 233.237 ms
Loss rate: 7.23%
-- Flow 1:
Average throughput: 701.30 Mbit/s
95th percentile per-packet one-way delay: 233.237 ms
Loss rate: 7.23%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-01 00:17:53

End at: 2018-07-01 00:18:23

Local clock offset: 0.121 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2018-07-01 02:35:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 632.38 Mbit/s

95th percentile per-packet one-way delay: 226.583 ms

Loss rate: 9.19%

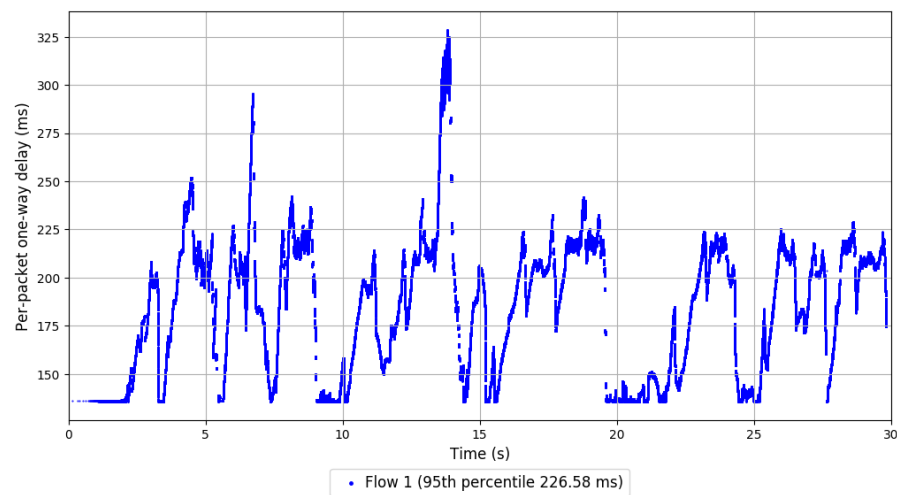
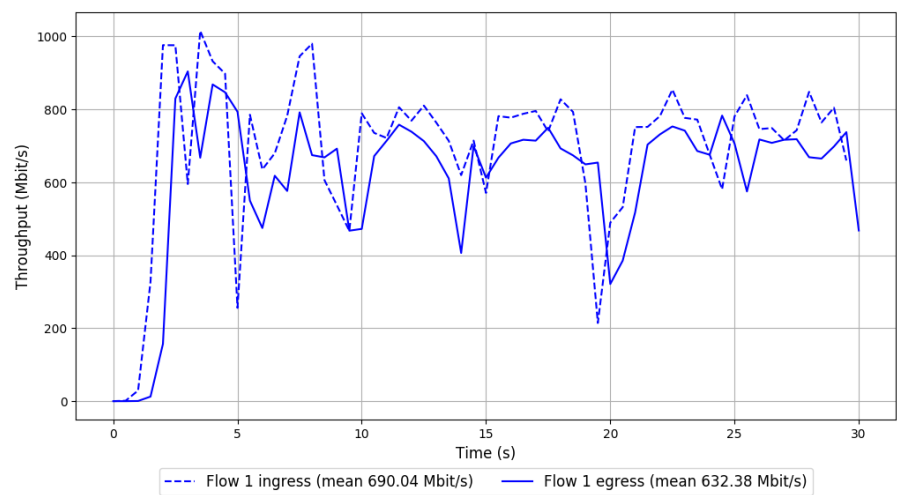
-- Flow 1:

Average throughput: 632.38 Mbit/s

95th percentile per-packet one-way delay: 226.583 ms

Loss rate: 9.19%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-07-01 00:39:48

End at: 2018-07-01 00:40:18

Local clock offset: 0.465 ms

Remote clock offset: -0.32 ms

Below is generated by plot.py at 2018-07-01 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 732.48 Mbit/s

95th percentile per-packet one-way delay: 232.050 ms

Loss rate: 5.47%

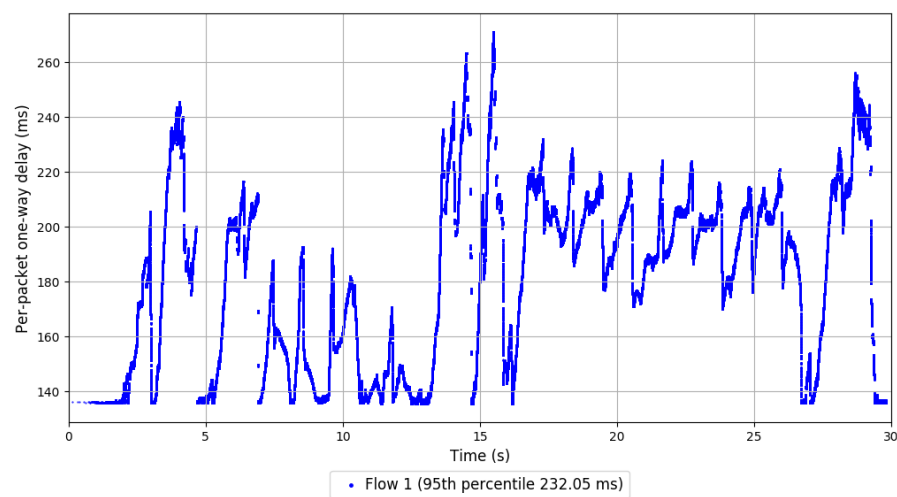
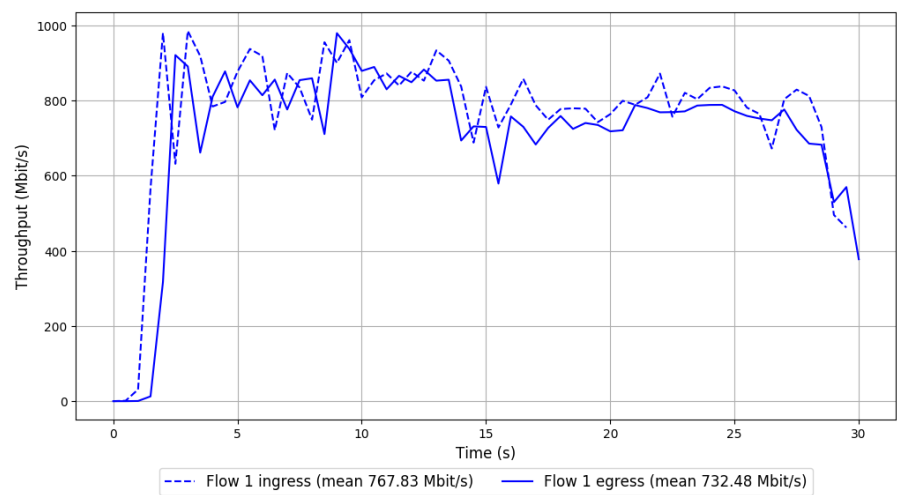
-- Flow 1:

Average throughput: 732.48 Mbit/s

95th percentile per-packet one-way delay: 232.050 ms

Loss rate: 5.47%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-01 01:01:46

End at: 2018-07-01 01:02:17

Local clock offset: 0.204 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2018-07-01 02:38:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 679.49 Mbit/s

95th percentile per-packet one-way delay: 330.745 ms

Loss rate: 5.35%

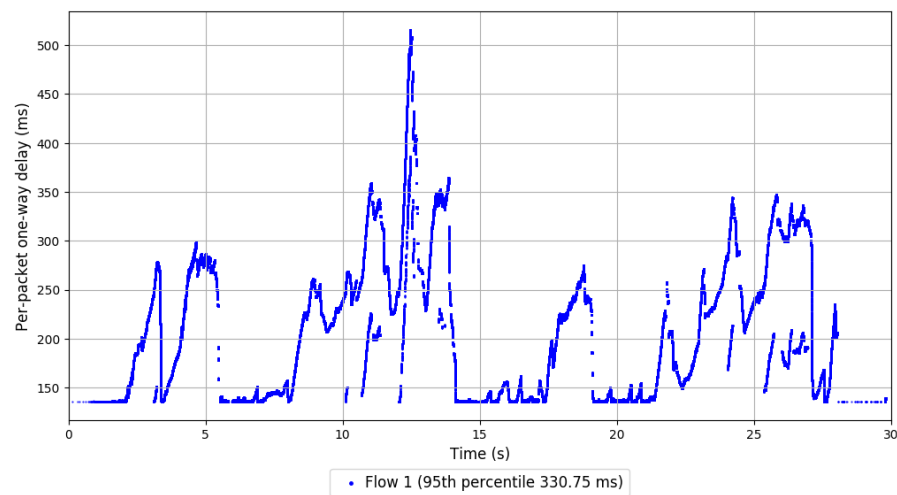
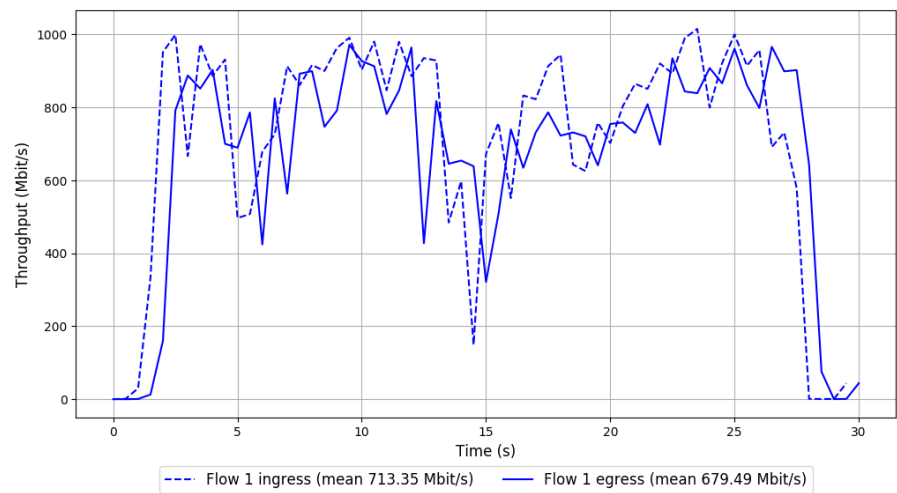
-- Flow 1:

Average throughput: 679.49 Mbit/s

95th percentile per-packet one-way delay: 330.745 ms

Loss rate: 5.35%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-01 01:24:06

End at: 2018-07-01 01:24:36

Local clock offset: 0.349 ms

Remote clock offset: 0.405 ms

Below is generated by plot.py at 2018-07-01 02:52:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 870.86 Mbit/s

95th percentile per-packet one-way delay: 254.340 ms

Loss rate: 1.35%

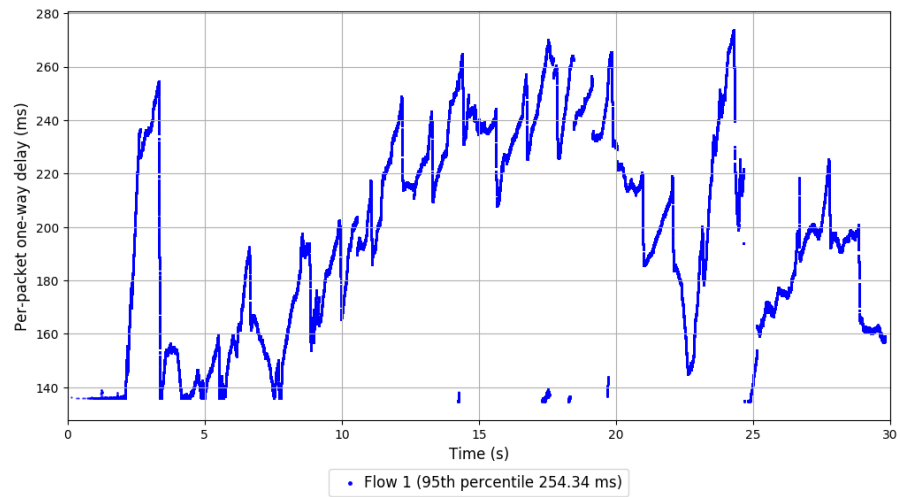
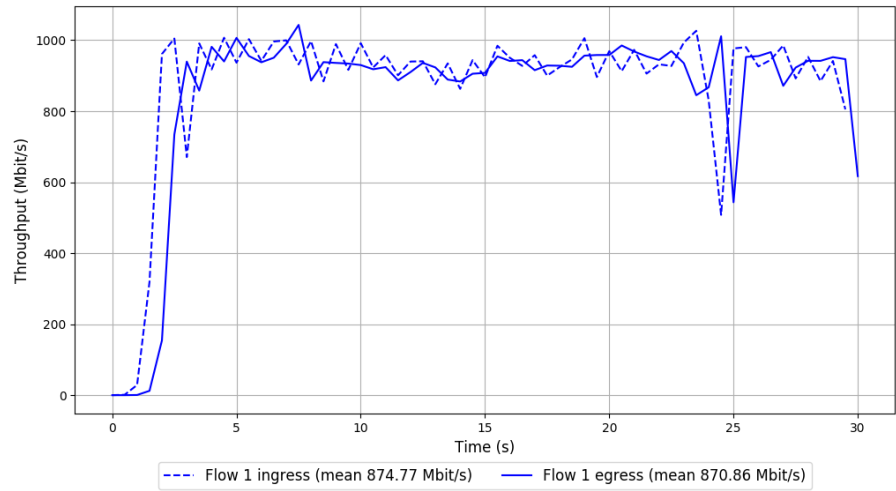
-- Flow 1:

Average throughput: 870.86 Mbit/s

95th percentile per-packet one-way delay: 254.340 ms

Loss rate: 1.35%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-07-01 01:46:26

End at: 2018-07-01 01:46:56

Local clock offset: 0.223 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-07-01 02:52:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 711.97 Mbit/s

95th percentile per-packet one-way delay: 282.508 ms

Loss rate: 4.46%

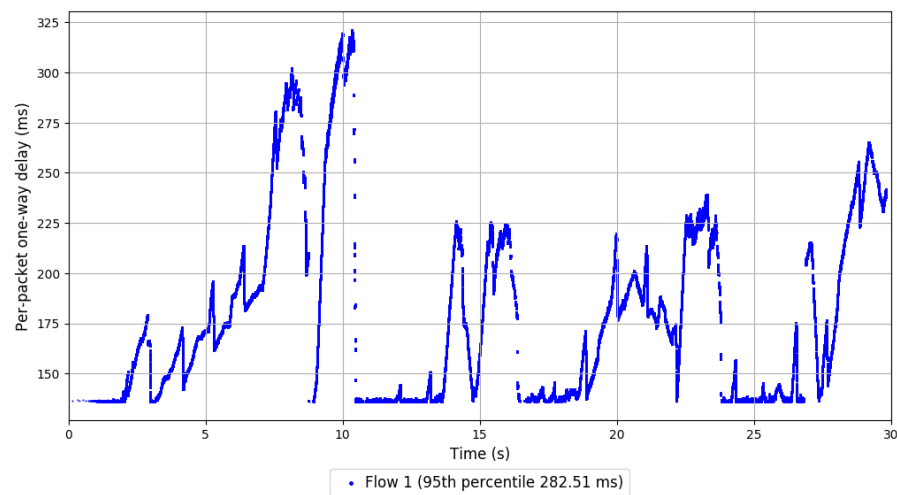
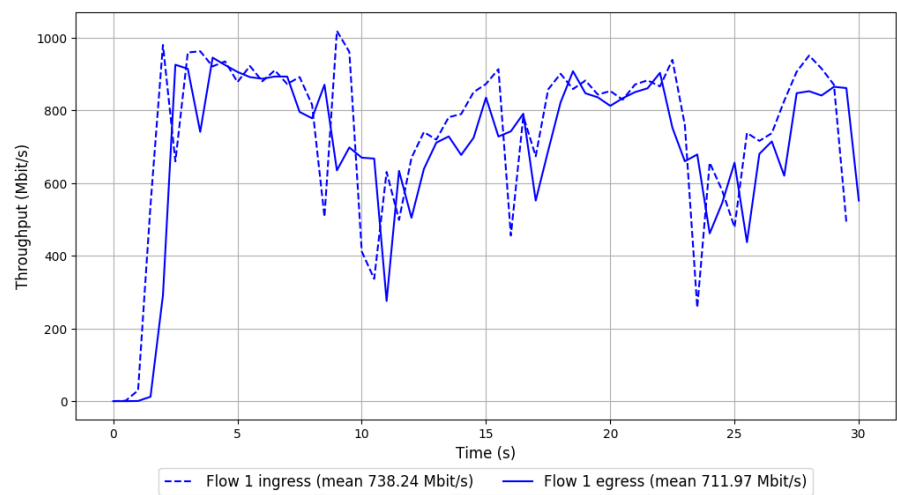
-- Flow 1:

Average throughput: 711.97 Mbit/s

95th percentile per-packet one-way delay: 282.508 ms

Loss rate: 4.46%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

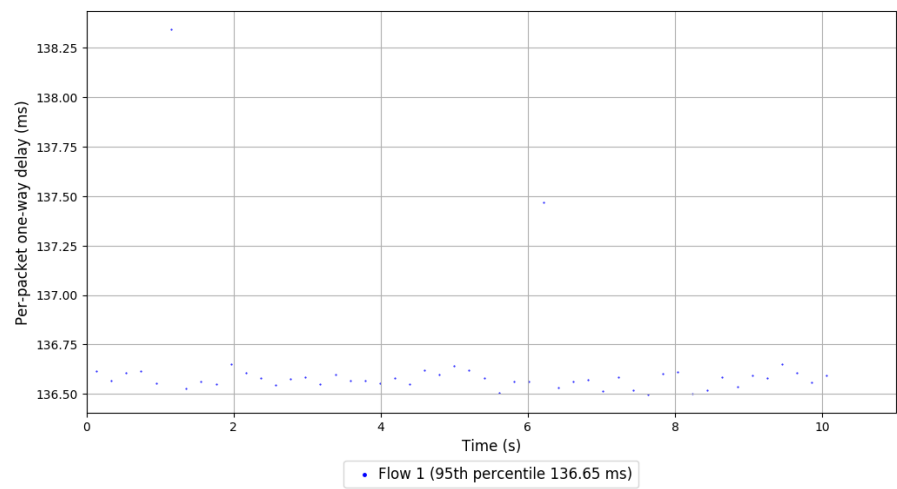
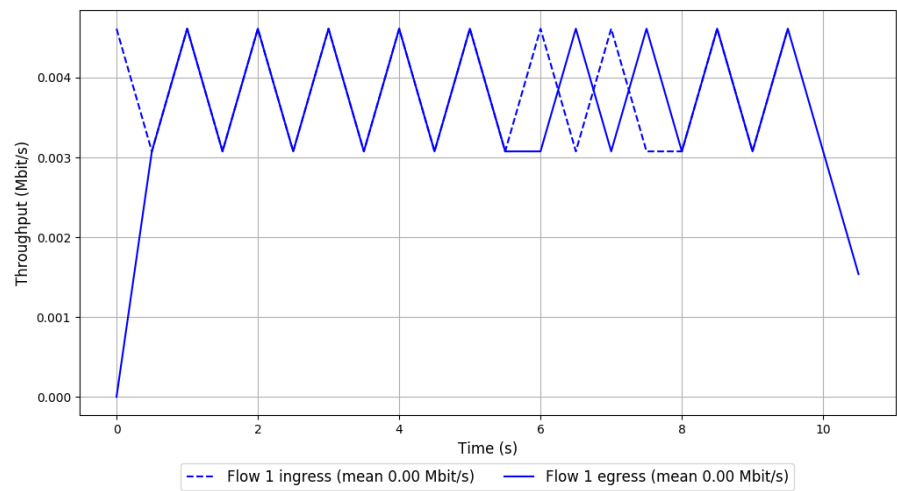
Start at: 2018-06-30 22:46:27

End at: 2018-06-30 22:46:57

Local clock offset: -0.157 ms

Remote clock offset: -0.012 ms

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

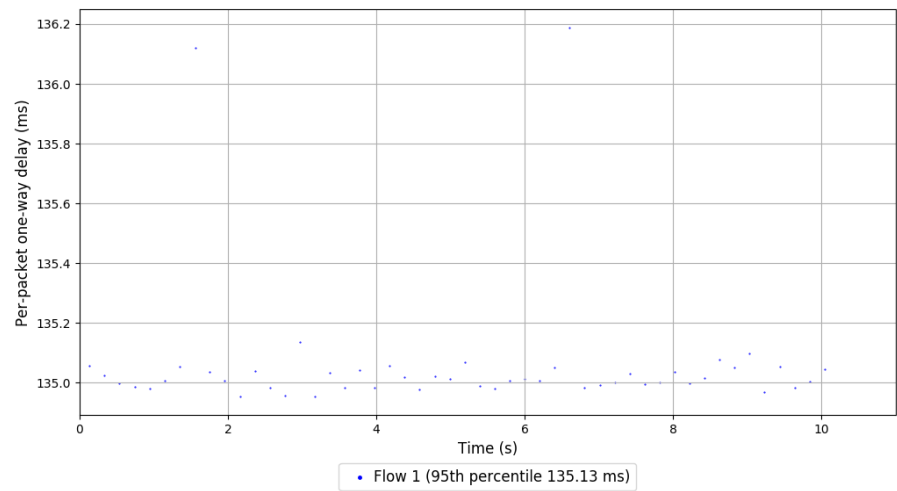
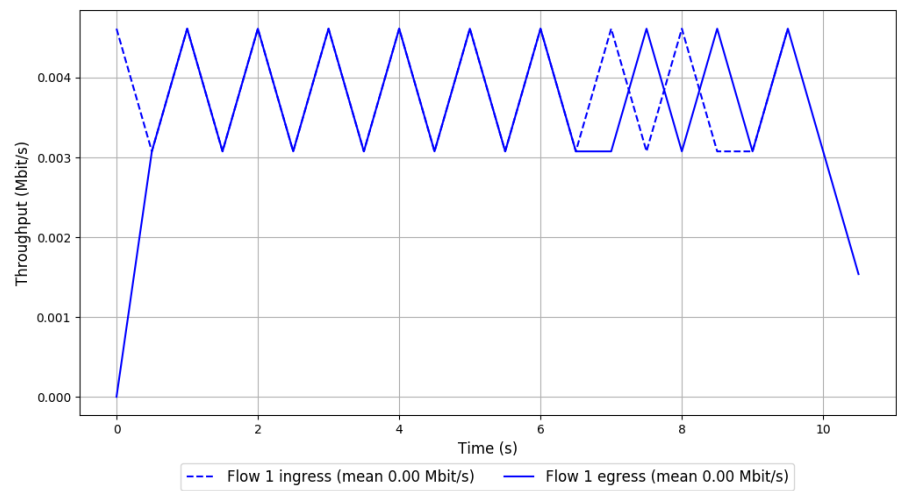
Start at: 2018-06-30 23:08:14

End at: 2018-06-30 23:08:44

Local clock offset: 0.296 ms

Remote clock offset: 0.007 ms

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

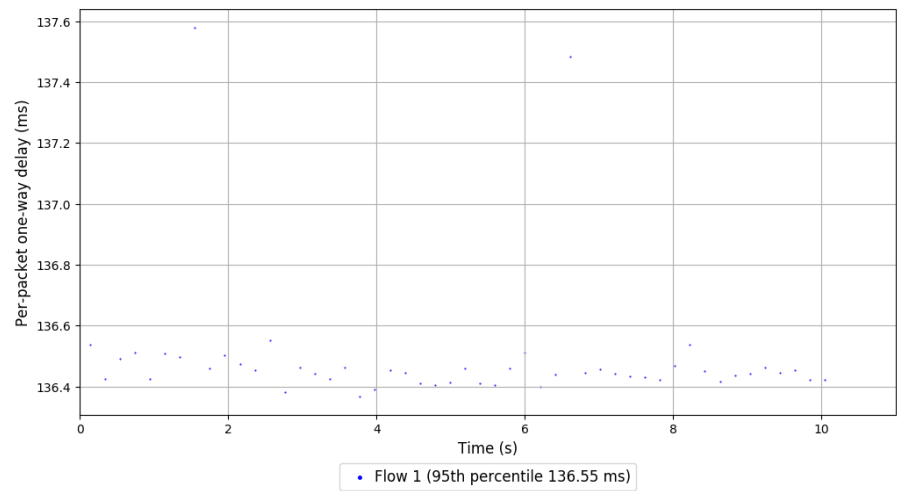
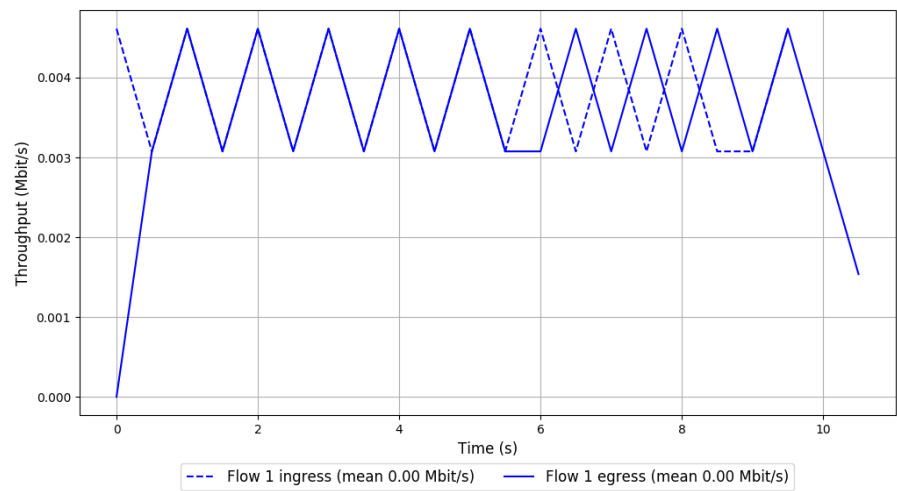
Start at: 2018-06-30 23:30:18

End at: 2018-06-30 23:30:48

Local clock offset: 0.024 ms

Remote clock offset: 0.024 ms

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

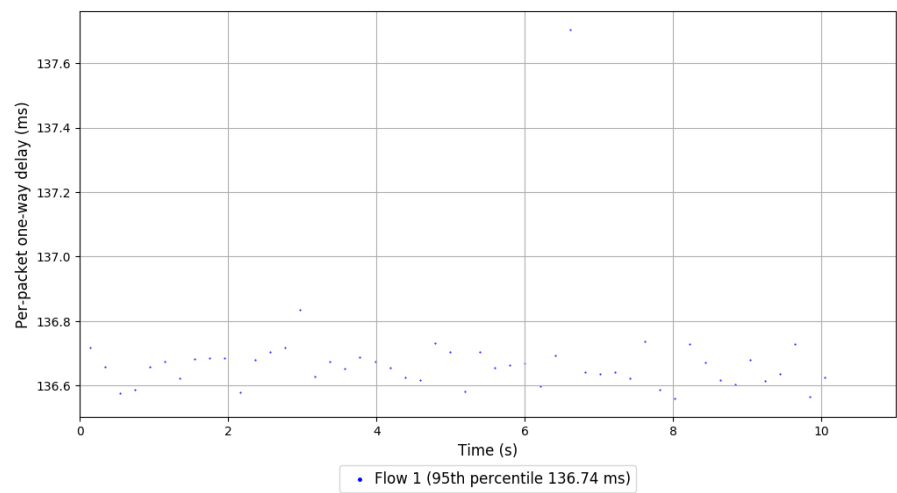
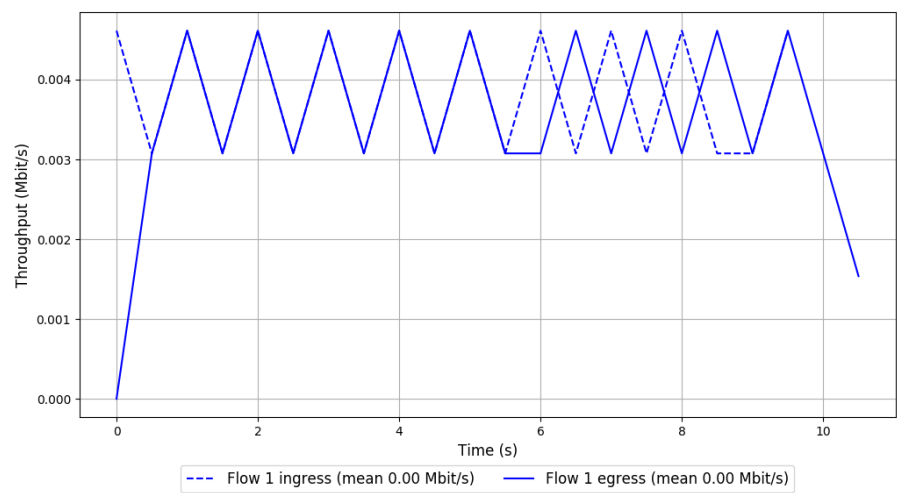
Start at: 2018-06-30 23:52:09

End at: 2018-06-30 23:52:39

Local clock offset: 0.256 ms

Remote clock offset: -0.265 ms

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

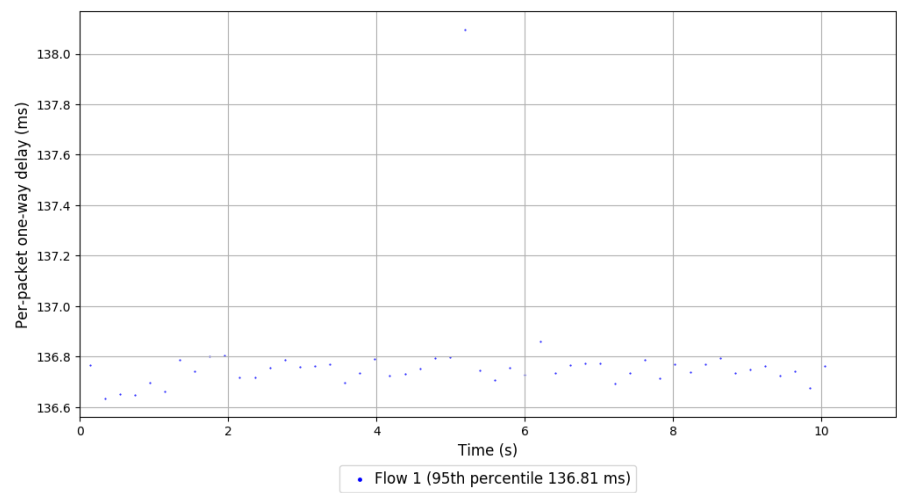
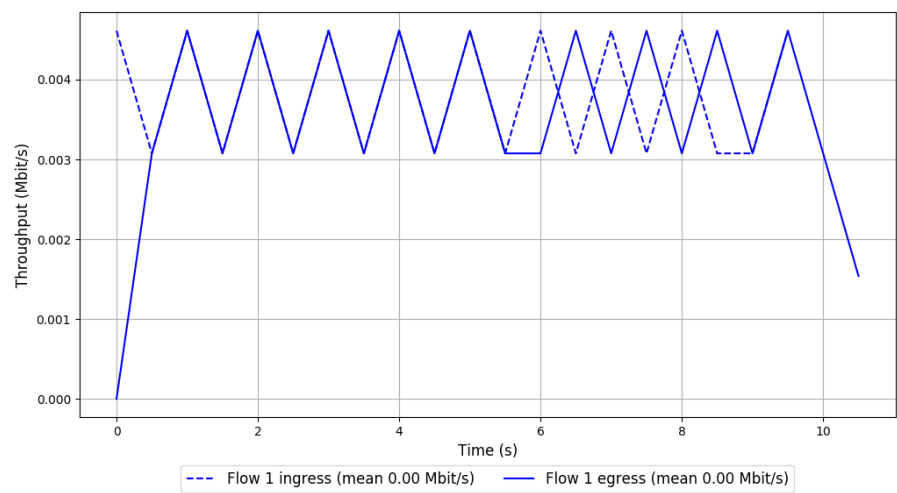
Start at: 2018-07-01 00:13:59

End at: 2018-07-01 00:14:29

Local clock offset: 0.055 ms

Remote clock offset: -0.31 ms

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

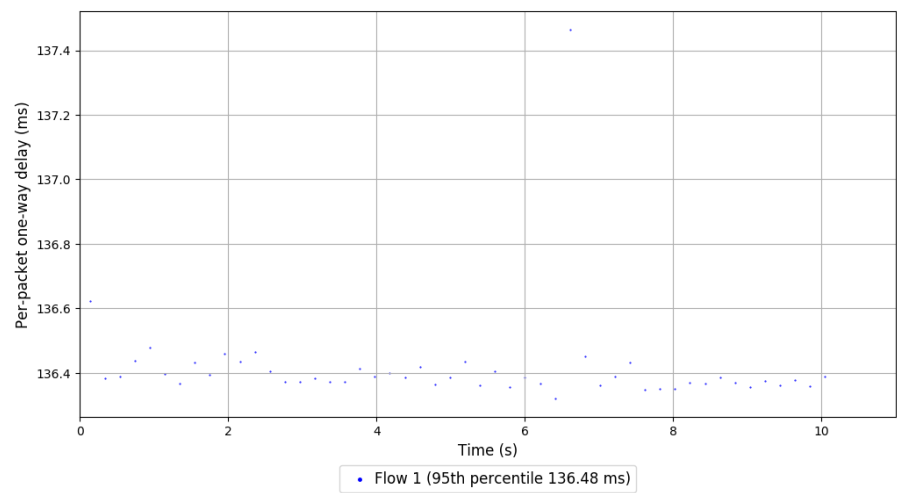
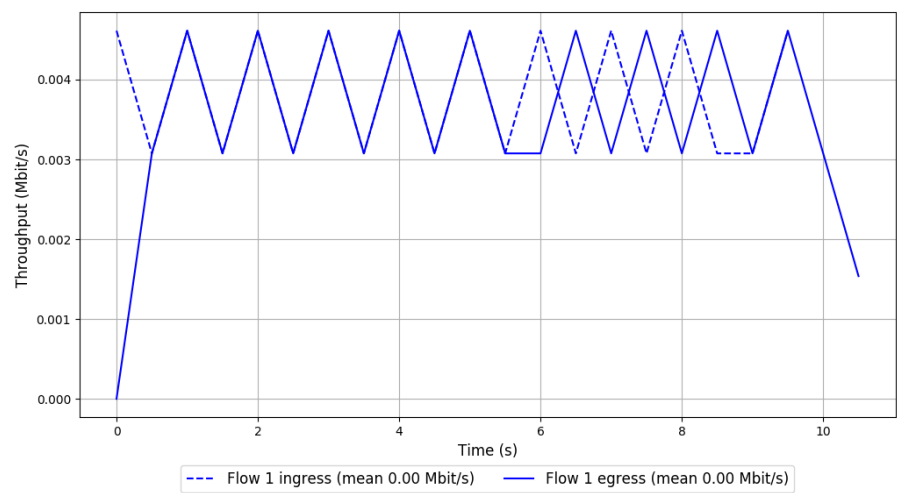
Start at: 2018-07-01 00:36:01

End at: 2018-07-01 00:36:31

Local clock offset: 0.229 ms

Remote clock offset: 0.007 ms

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

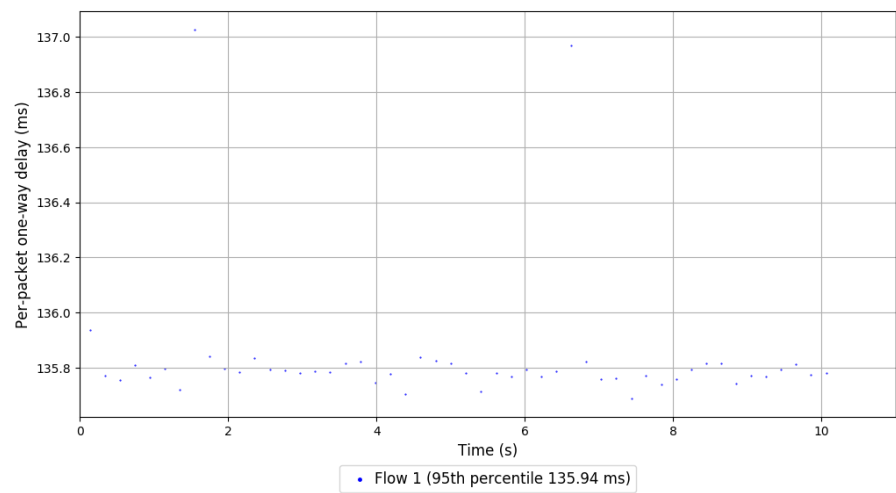
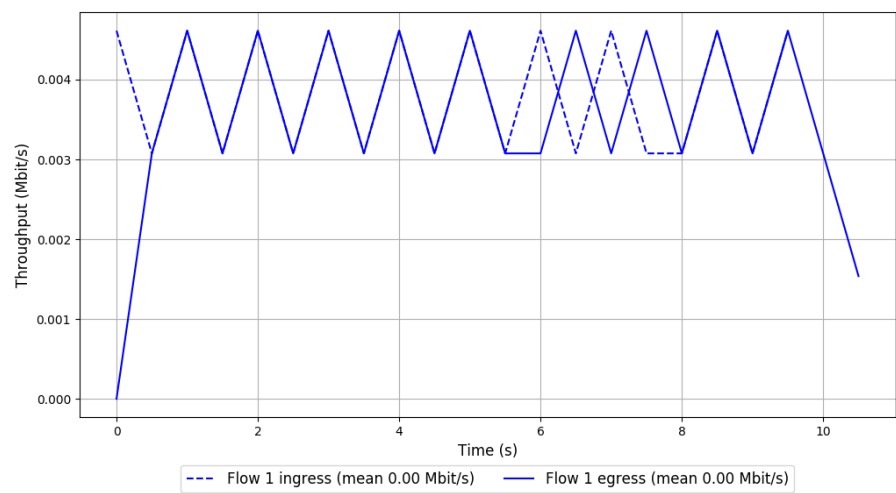
Start at: 2018-07-01 00:57:59

End at: 2018-07-01 00:58:29

Local clock offset: 0.386 ms

Remote clock offset: 0.027 ms

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

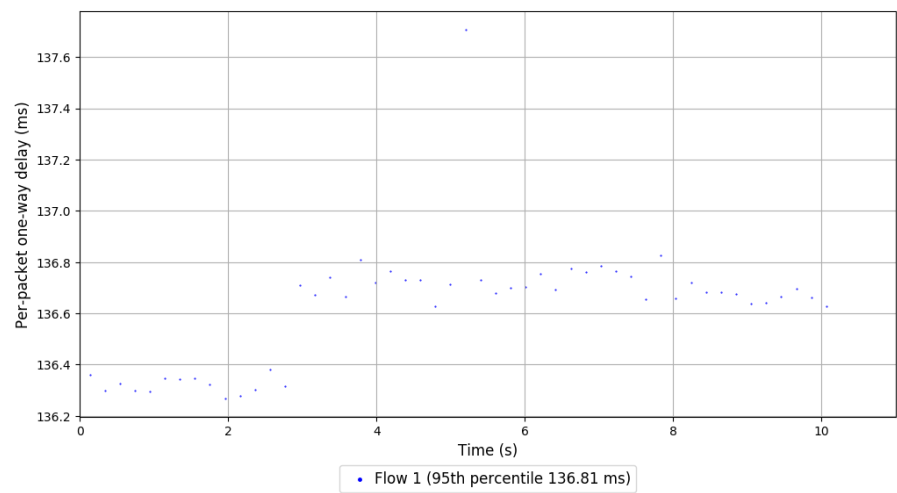
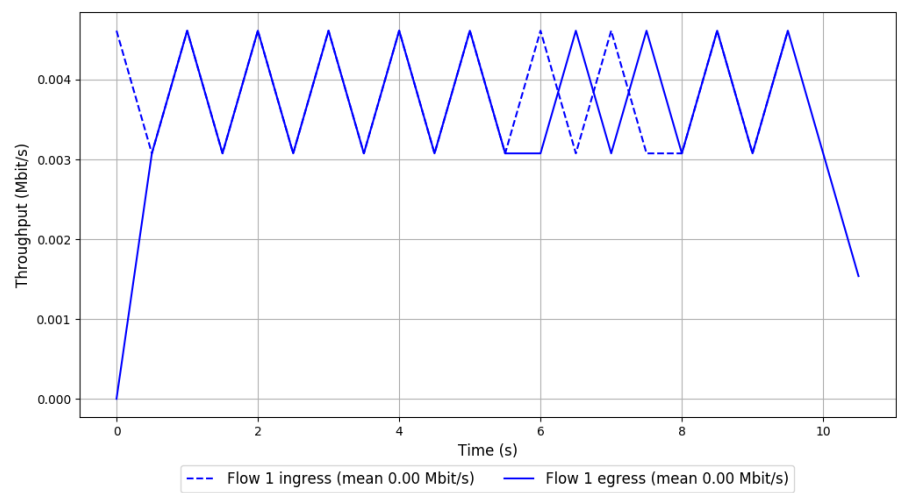
Start at: 2018-07-01 01:20:17

End at: 2018-07-01 01:20:47

Local clock offset: 0.315 ms

Remote clock offset: -0.291 ms

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

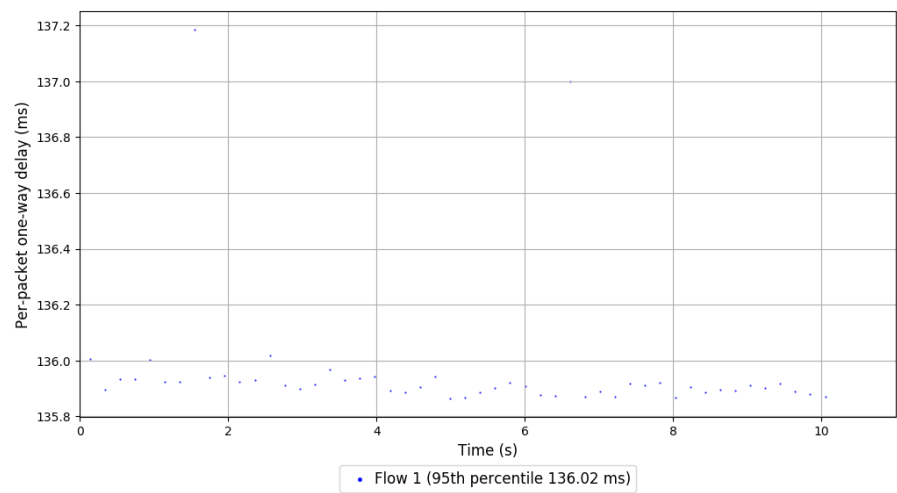
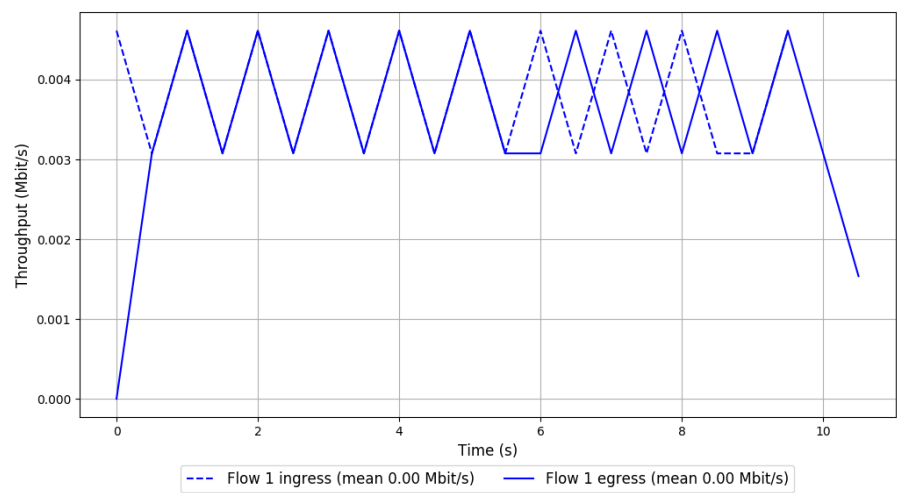
Start at: 2018-07-01 01:42:31

End at: 2018-07-01 01:43:01

Local clock offset: 0.353 ms

Remote clock offset: 0.049 ms

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

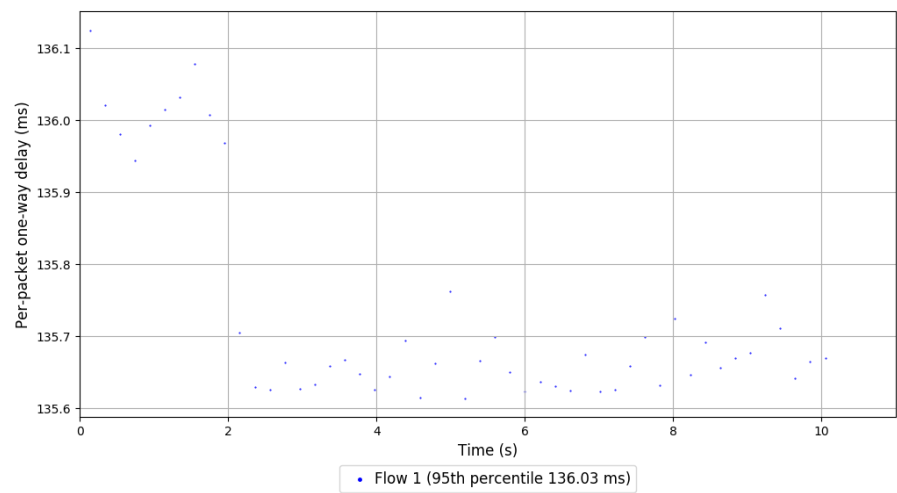
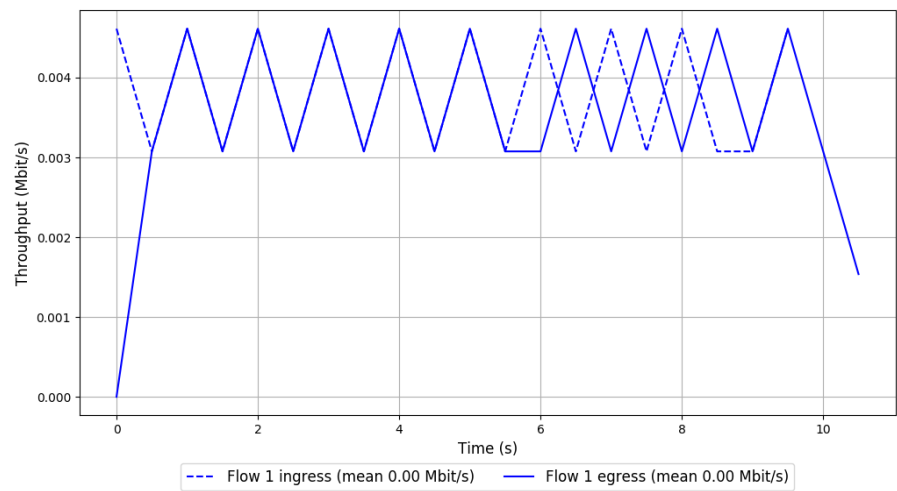
Start at: 2018-07-01 02:04:38

End at: 2018-07-01 02:05:08

Local clock offset: 0.541 ms

Remote clock offset: 0.082 ms

Run 10: Report of FillP-Sheep — Data Link

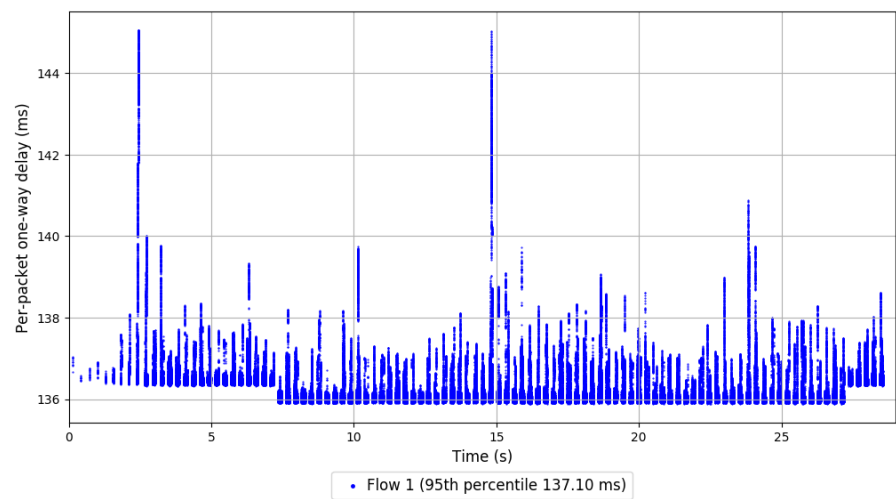
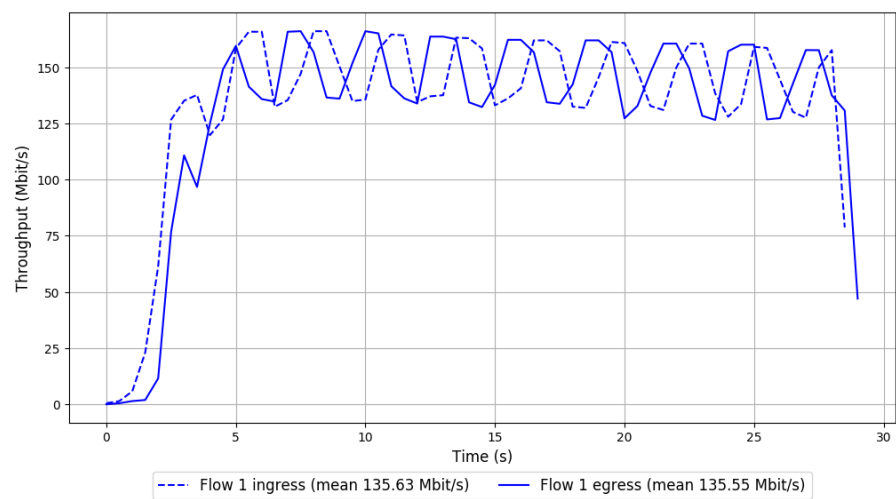


```
Run 1: Statistics of Indigo

Start at: 2018-06-30 22:41:21
End at: 2018-06-30 22:41:51
Local clock offset: 0.091 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2018-07-01 02:52:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 135.55 Mbit/s
95th percentile per-packet one-way delay: 137.100 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 135.55 Mbit/s
95th percentile per-packet one-way delay: 137.100 ms
Loss rate: 1.01%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-30 23:03:04

End at: 2018-06-30 23:03:34

Local clock offset: -0.06 ms

Remote clock offset: -0.39 ms

Below is generated by plot.py at 2018-07-01 02:52:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 135.77 Mbit/s

95th percentile per-packet one-way delay: 137.895 ms

Loss rate: 0.99%

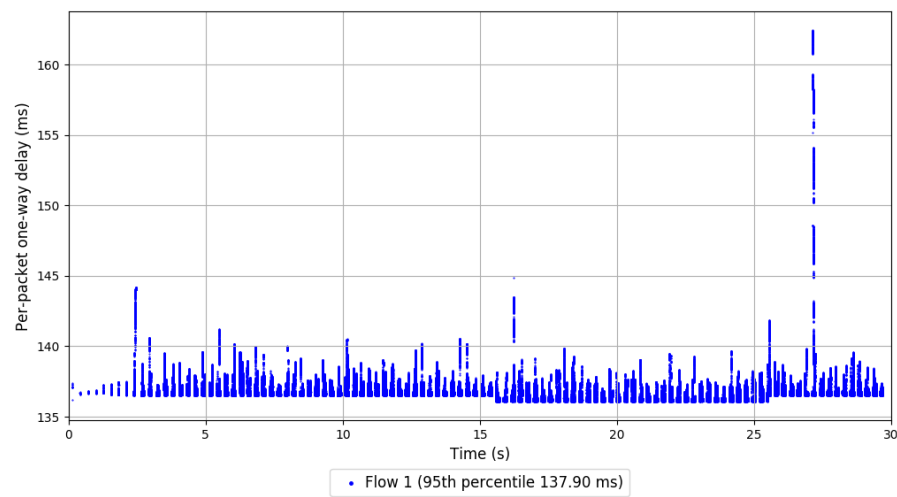
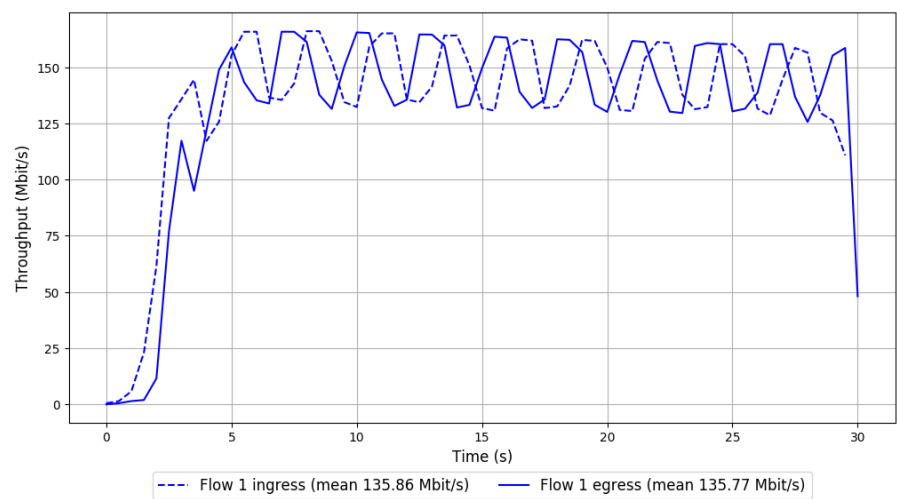
-- Flow 1:

Average throughput: 135.77 Mbit/s

95th percentile per-packet one-way delay: 137.895 ms

Loss rate: 0.99%

Run 2: Report of Indigo — Data Link

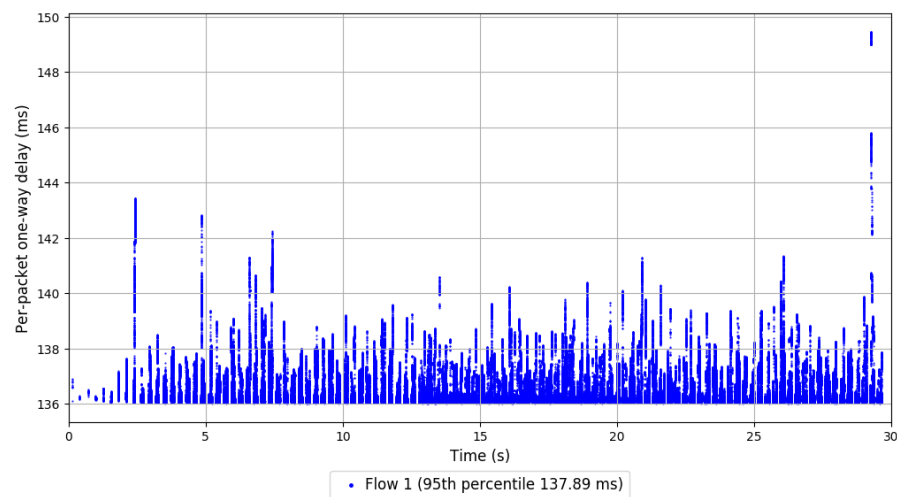
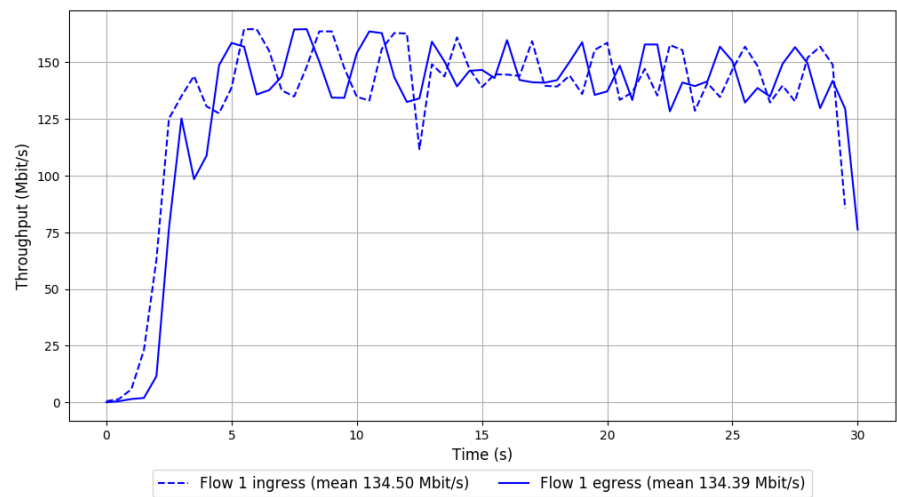


Run 3: Statistics of Indigo

Start at: 2018-06-30 23:25:10
End at: 2018-06-30 23:25:40
Local clock offset: 0.189 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2018-07-01 02:52:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 134.39 Mbit/s
95th percentile per-packet one-way delay: 137.889 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 134.39 Mbit/s
95th percentile per-packet one-way delay: 137.889 ms
Loss rate: 0.99%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-06-30 23:46:51

End at: 2018-06-30 23:47:21

Local clock offset: 0.145 ms

Remote clock offset: 0.081 ms

Below is generated by plot.py at 2018-07-01 02:52:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.51 Mbit/s

95th percentile per-packet one-way delay: 138.064 ms

Loss rate: 0.94%

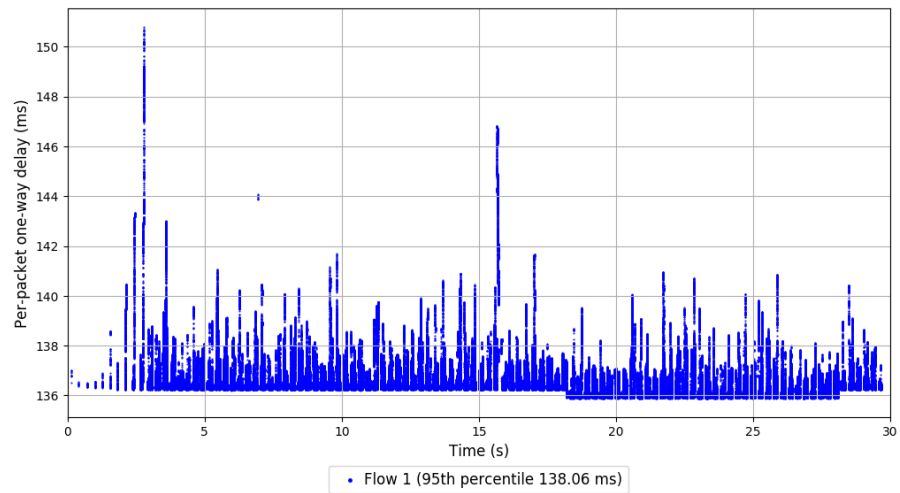
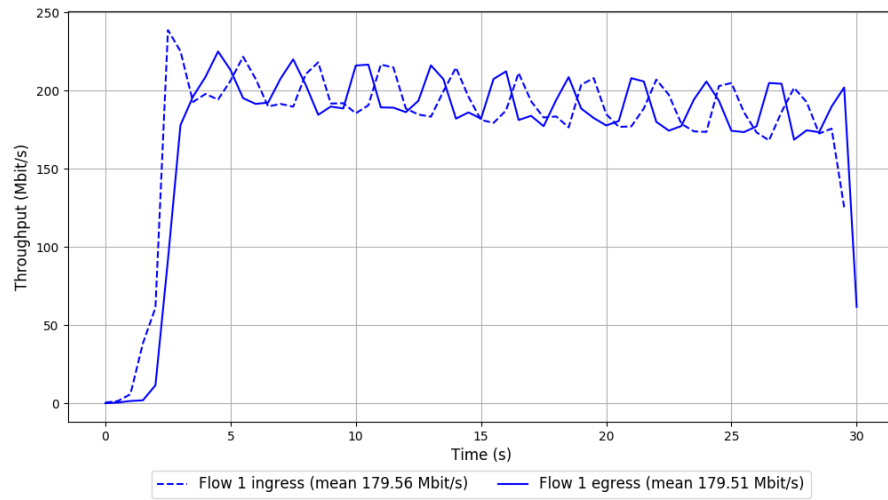
-- Flow 1:

Average throughput: 179.51 Mbit/s

95th percentile per-packet one-way delay: 138.064 ms

Loss rate: 0.94%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-07-01 00:08:44

End at: 2018-07-01 00:09:14

Local clock offset: 0.249 ms

Remote clock offset: -0.23 ms

Below is generated by plot.py at 2018-07-01 02:52:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 133.09 Mbit/s

95th percentile per-packet one-way delay: 138.623 ms

Loss rate: 0.99%

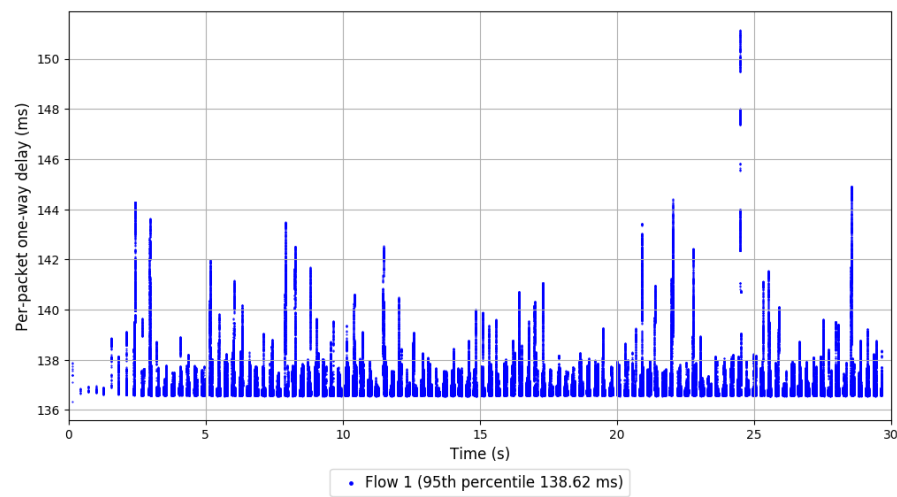
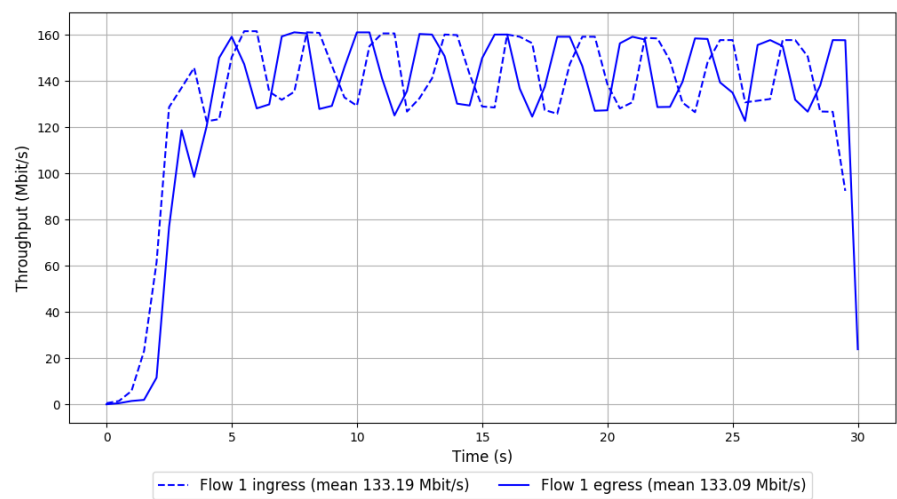
-- Flow 1:

Average throughput: 133.09 Mbit/s

95th percentile per-packet one-way delay: 138.623 ms

Loss rate: 0.99%

Run 5: Report of Indigo — Data Link

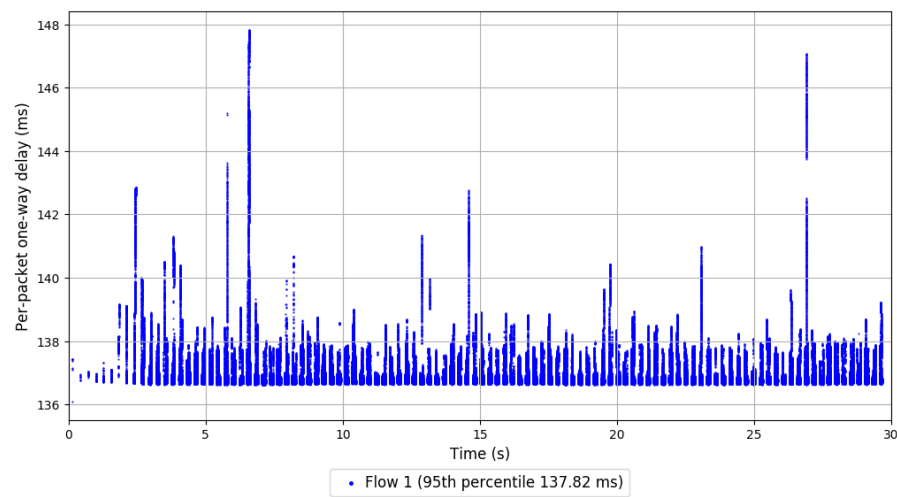
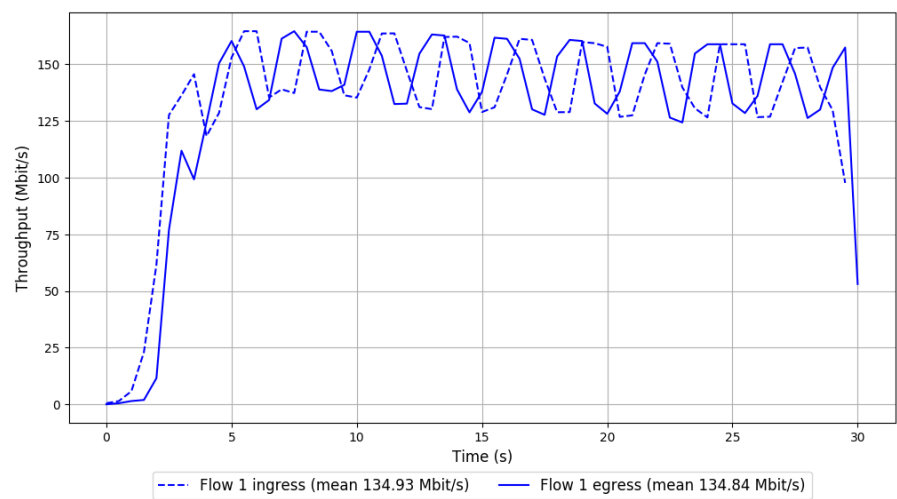


Run 6: Statistics of Indigo

Start at: 2018-07-01 00:30:52
End at: 2018-07-01 00:31:22
Local clock offset: 0.348 ms
Remote clock offset: -0.307 ms

Below is generated by plot.py at 2018-07-01 02:52:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 134.84 Mbit/s
95th percentile per-packet one-way delay: 137.824 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 134.84 Mbit/s
95th percentile per-packet one-way delay: 137.824 ms
Loss rate: 0.97%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-01 00:52:43

End at: 2018-07-01 00:53:13

Local clock offset: 0.279 ms

Remote clock offset: 0.115 ms

Below is generated by plot.py at 2018-07-01 02:52:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 133.14 Mbit/s

95th percentile per-packet one-way delay: 136.824 ms

Loss rate: 0.98%

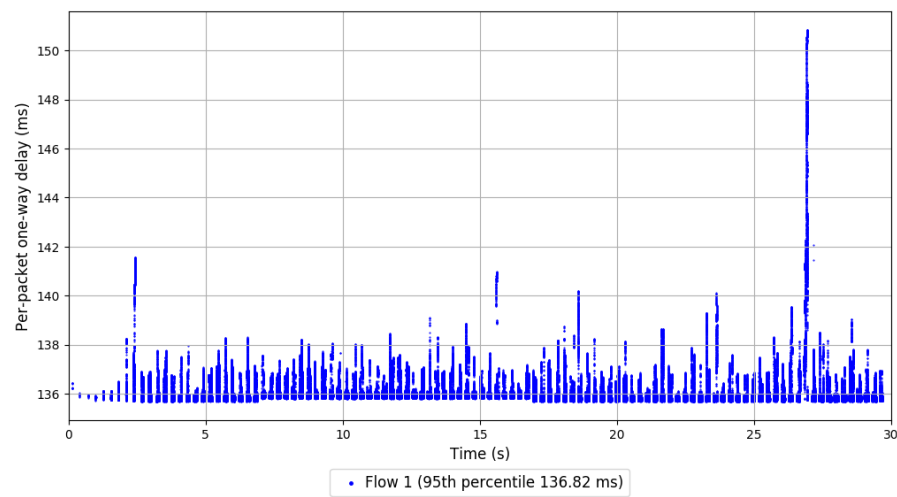
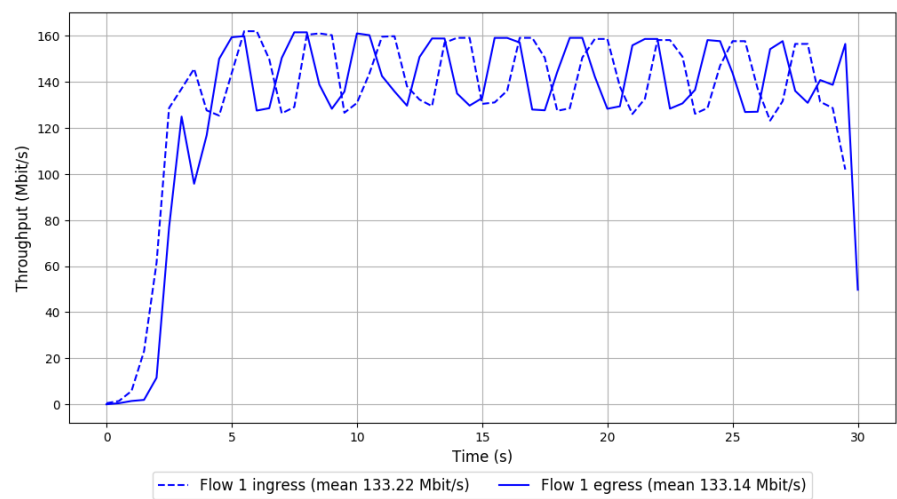
-- Flow 1:

Average throughput: 133.14 Mbit/s

95th percentile per-packet one-way delay: 136.824 ms

Loss rate: 0.98%

Run 7: Report of Indigo — Data Link

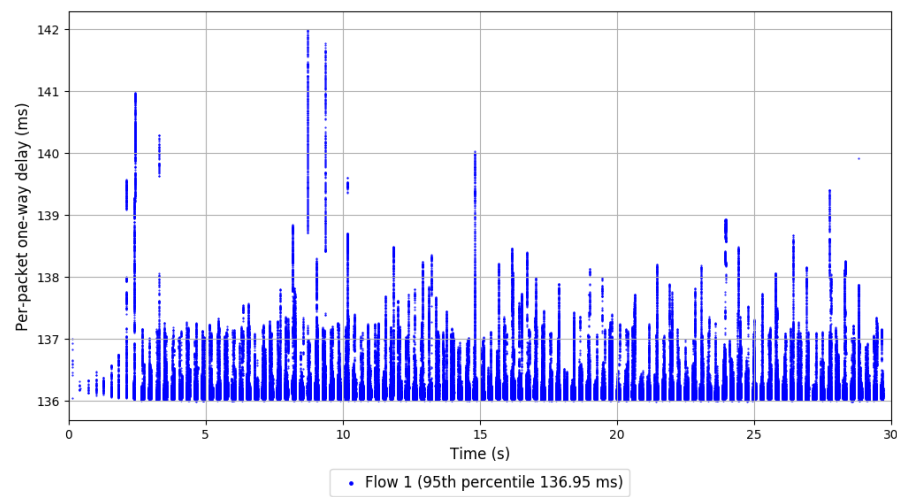
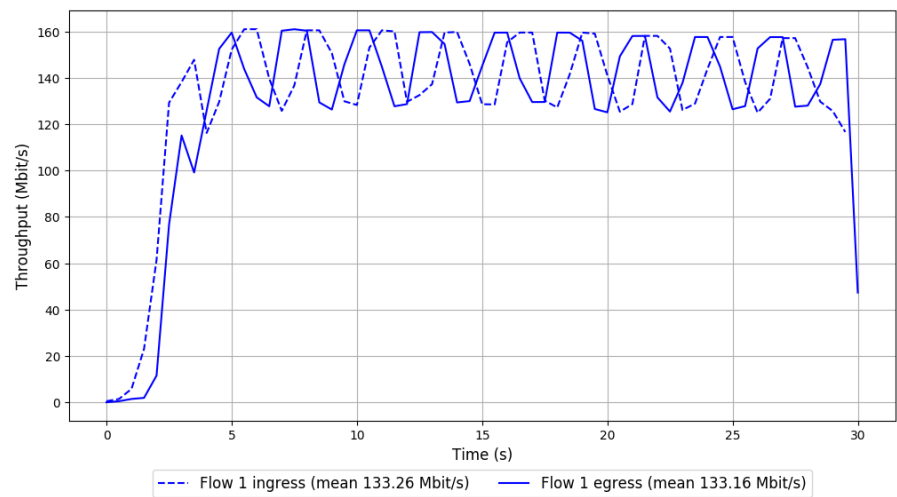


Run 8: Statistics of Indigo

Start at: 2018-07-01 01:15:01
End at: 2018-07-01 01:15:31
Local clock offset: 0.12 ms
Remote clock offset: -0.286 ms

Below is generated by plot.py at 2018-07-01 02:52:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 133.16 Mbit/s
95th percentile per-packet one-way delay: 136.954 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 133.16 Mbit/s
95th percentile per-packet one-way delay: 136.954 ms
Loss rate: 0.99%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-01 01:37:20

End at: 2018-07-01 01:37:50

Local clock offset: 0.187 ms

Remote clock offset: 0.443 ms

Below is generated by plot.py at 2018-07-01 02:52:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 133.83 Mbit/s

95th percentile per-packet one-way delay: 136.119 ms

Loss rate: 1.00%

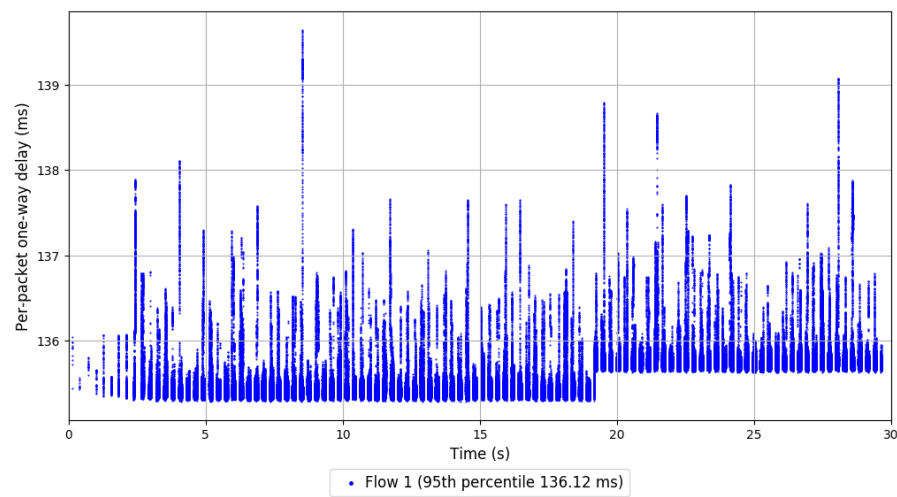
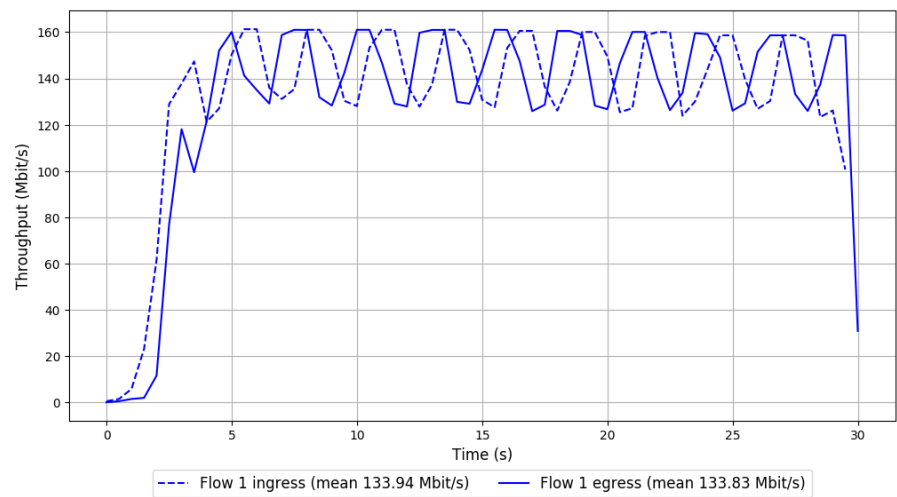
-- Flow 1:

Average throughput: 133.83 Mbit/s

95th percentile per-packet one-way delay: 136.119 ms

Loss rate: 1.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-01 01:59:24

End at: 2018-07-01 01:59:54

Local clock offset: 0.201 ms

Remote clock offset: -0.292 ms

Below is generated by plot.py at 2018-07-01 02:52:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 135.62 Mbit/s

95th percentile per-packet one-way delay: 137.171 ms

Loss rate: 0.99%

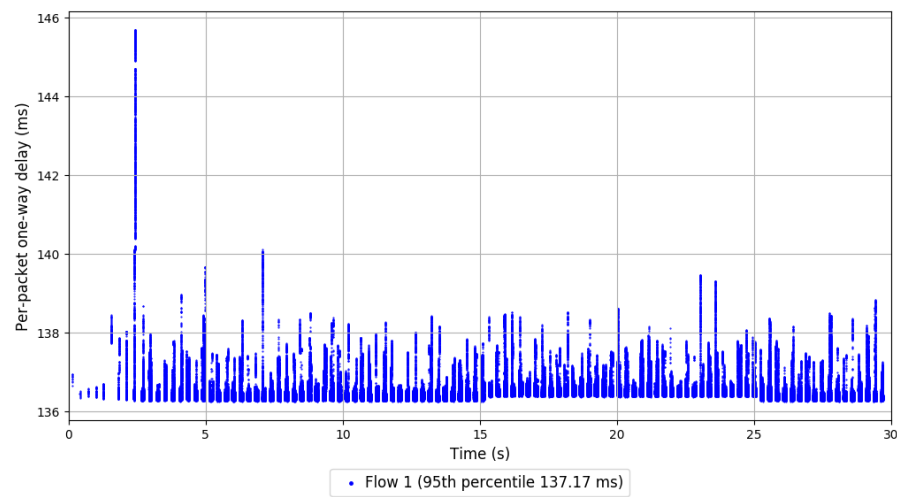
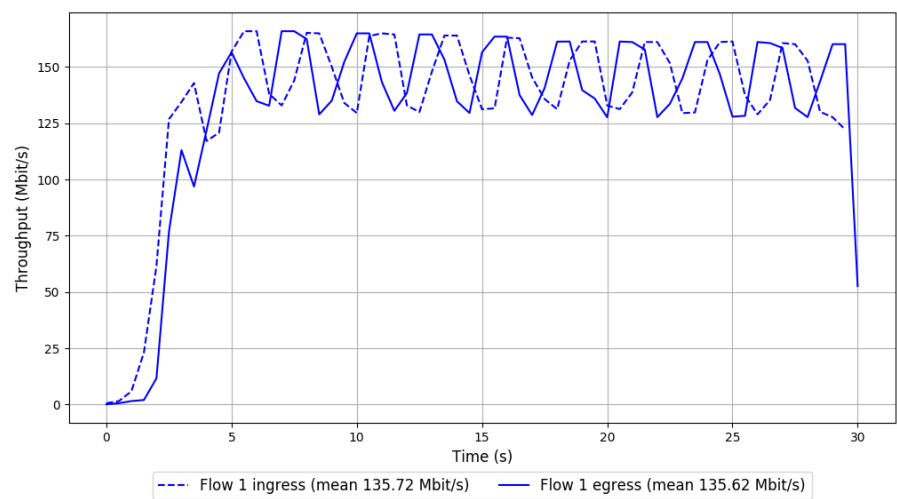
-- Flow 1:

Average throughput: 135.62 Mbit/s

95th percentile per-packet one-way delay: 137.171 ms

Loss rate: 0.99%

Run 10: Report of Indigo — Data Link

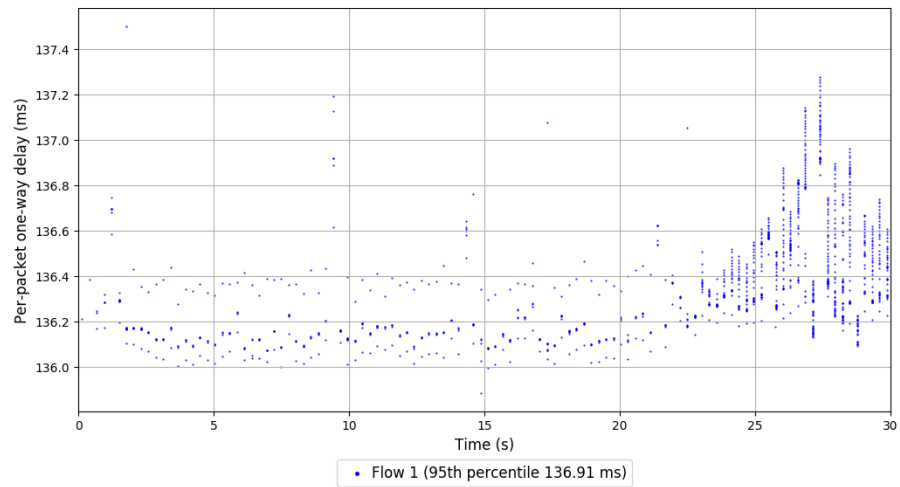
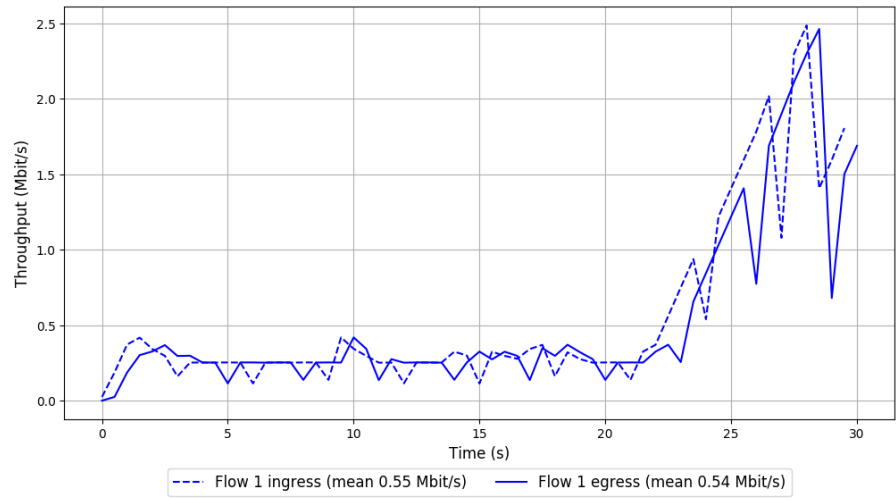


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-30 22:26:58
End at: 2018-06-30 22:27:28
Local clock offset: 0.048 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2018-07-01 02:52:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 136.914 ms
Loss rate: 2.90%
-- Flow 1:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 136.914 ms
Loss rate: 2.90%
```

Run 1: Report of LEDBAT — Data Link

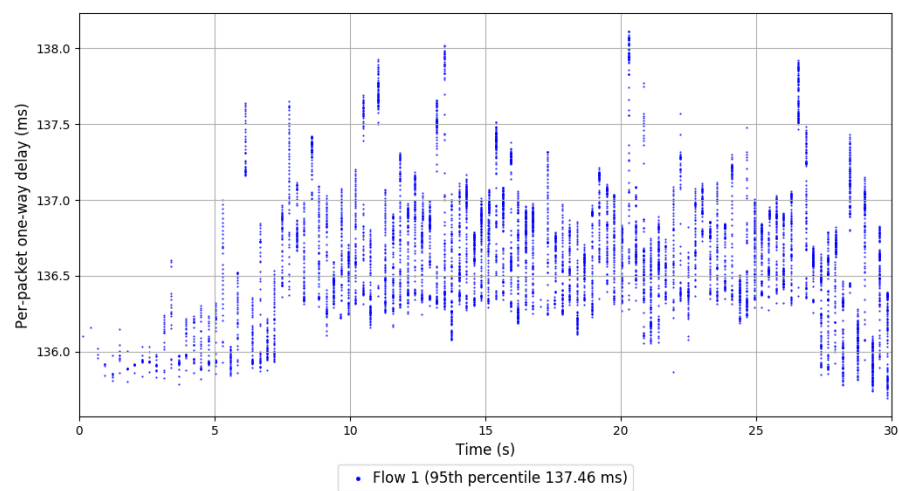
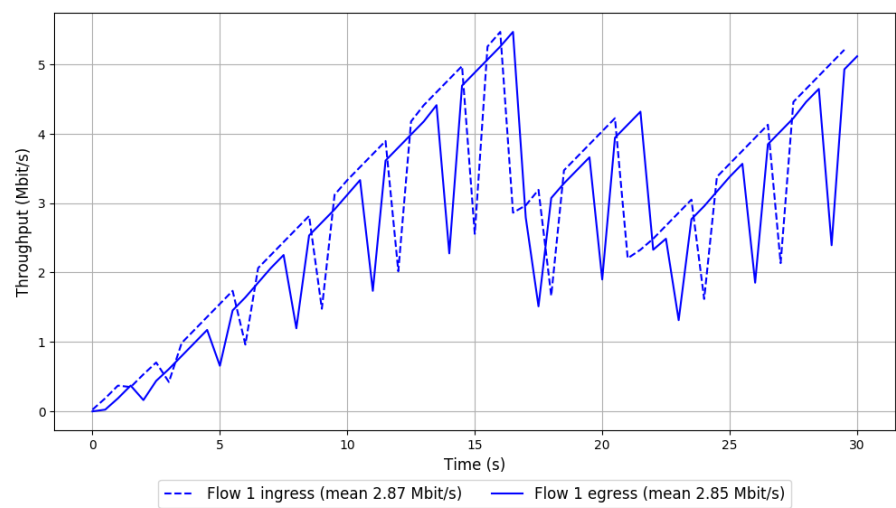


Run 2: Statistics of LEDBAT

Start at: 2018-06-30 22:49:02
End at: 2018-06-30 22:49:32
Local clock offset: -0.152 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-07-01 02:52:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.85 Mbit/s
95th percentile per-packet one-way delay: 137.457 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 2.85 Mbit/s
95th percentile per-packet one-way delay: 137.457 ms
Loss rate: 1.55%

Run 2: Report of LEDBAT — Data Link

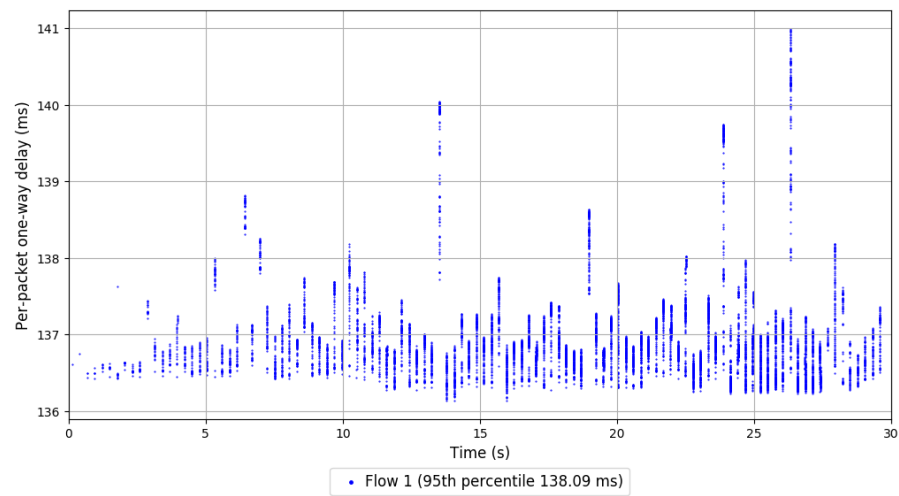
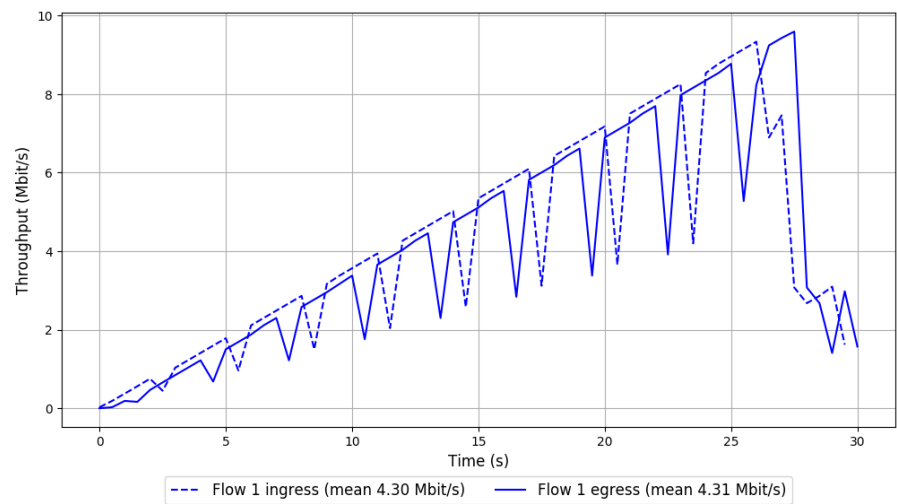


Run 3: Statistics of LEDBAT

Start at: 2018-06-30 23:10:49
End at: 2018-06-30 23:11:19
Local clock offset: 0.032 ms
Remote clock offset: -0.393 ms

Below is generated by plot.py at 2018-07-01 02:52:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 138.086 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 138.086 ms
Loss rate: 0.64%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-06-30 23:32:57

End at: 2018-06-30 23:33:27

Local clock offset: 0.1 ms

Remote clock offset: 0.054 ms

Below is generated by plot.py at 2018-07-01 02:52:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.86 Mbit/s

95th percentile per-packet one-way delay: 137.885 ms

Loss rate: 1.82%

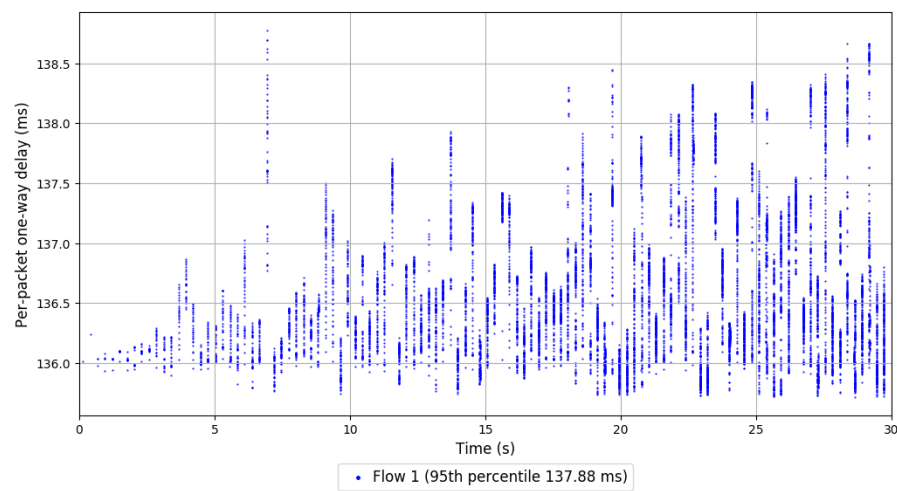
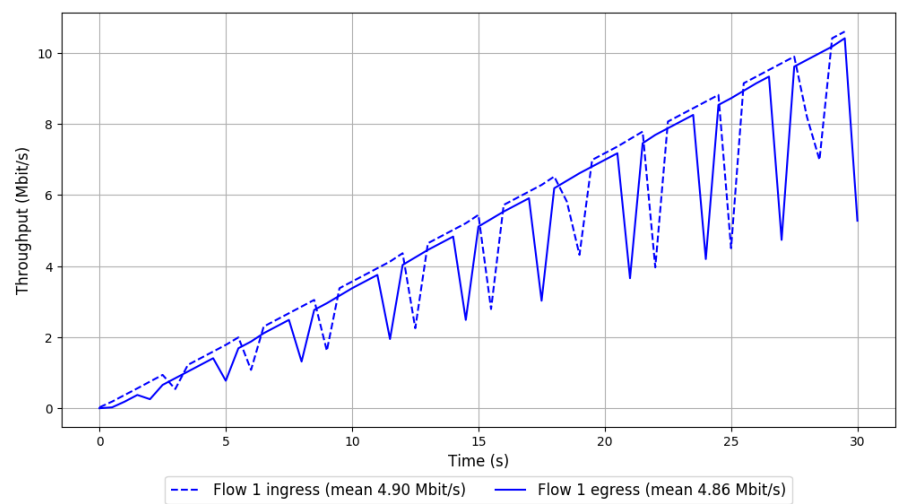
-- Flow 1:

Average throughput: 4.86 Mbit/s

95th percentile per-packet one-way delay: 137.885 ms

Loss rate: 1.82%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-06-30 23:54:46

End at: 2018-06-30 23:55:16

Local clock offset: 0.222 ms

Remote clock offset: 0.144 ms

Below is generated by plot.py at 2018-07-01 02:52:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 137.797 ms

Loss rate: 1.84%

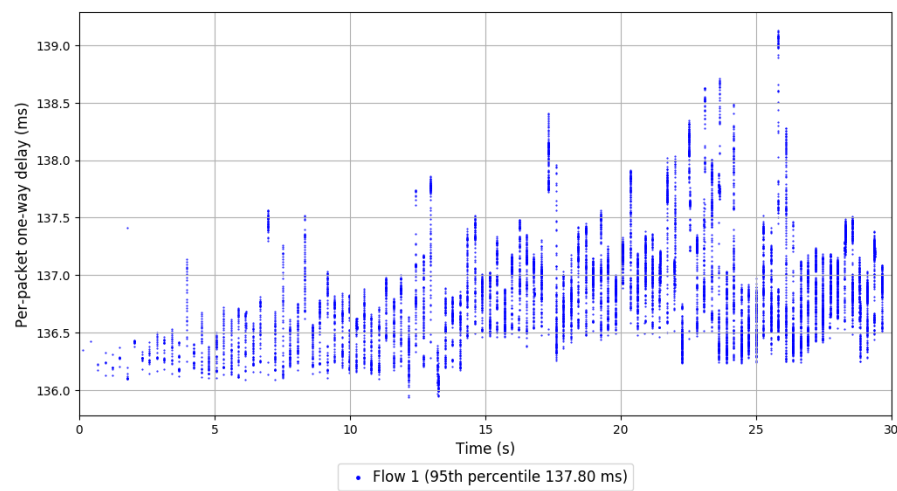
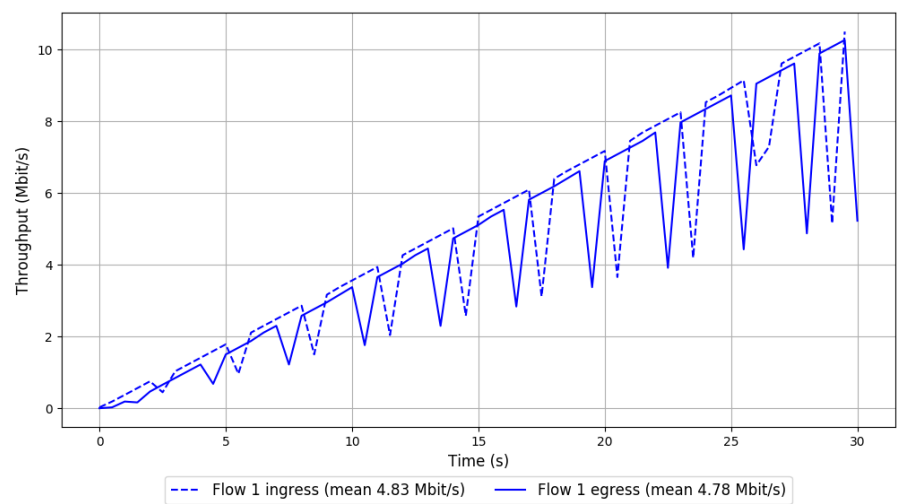
-- Flow 1:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 137.797 ms

Loss rate: 1.84%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-01 00:16:43

End at: 2018-07-01 00:17:13

Local clock offset: 0.045 ms

Remote clock offset: 0.072 ms

Below is generated by plot.py at 2018-07-01 02:52:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.41 Mbit/s

95th percentile per-packet one-way delay: 137.948 ms

Loss rate: 1.07%

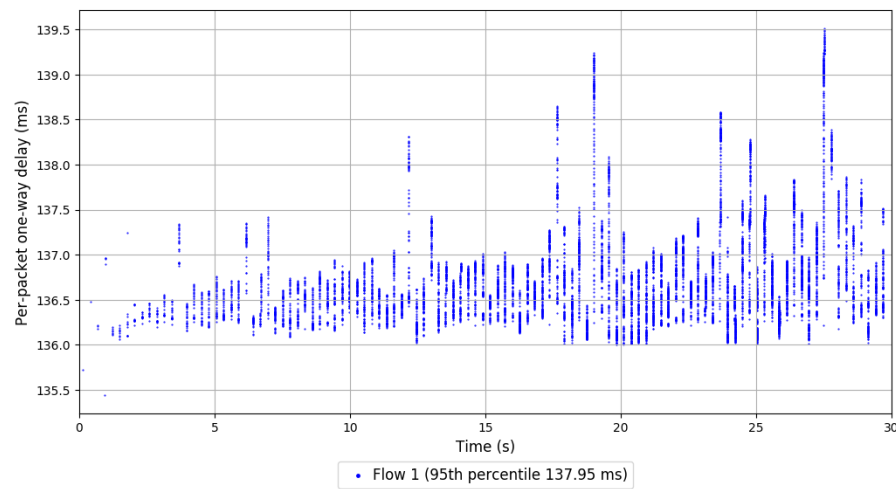
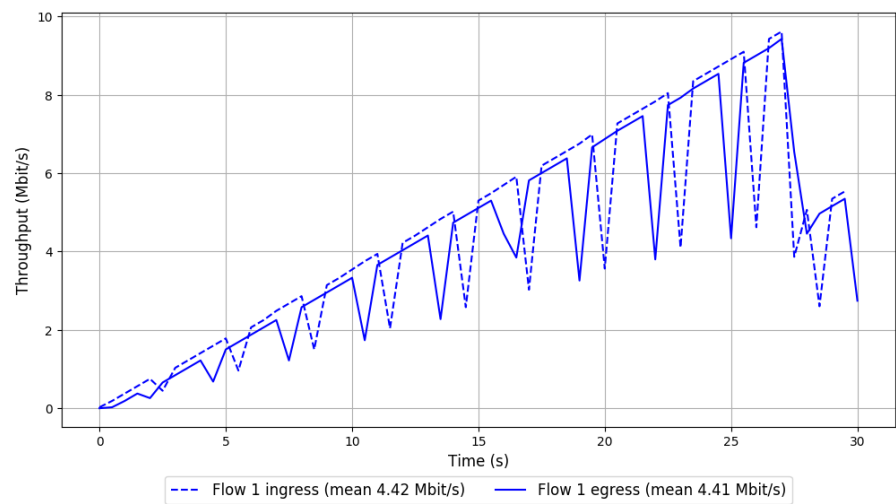
-- Flow 1:

Average throughput: 4.41 Mbit/s

95th percentile per-packet one-way delay: 137.948 ms

Loss rate: 1.07%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-01 00:38:39

End at: 2018-07-01 00:39:09

Local clock offset: 0.216 ms

Remote clock offset: 0.029 ms

Below is generated by plot.py at 2018-07-01 02:52:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 137.554 ms

Loss rate: 1.83%

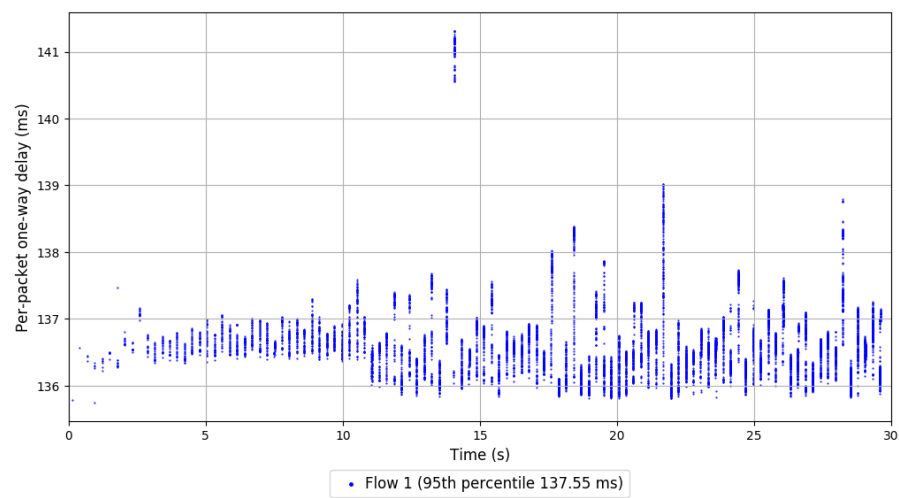
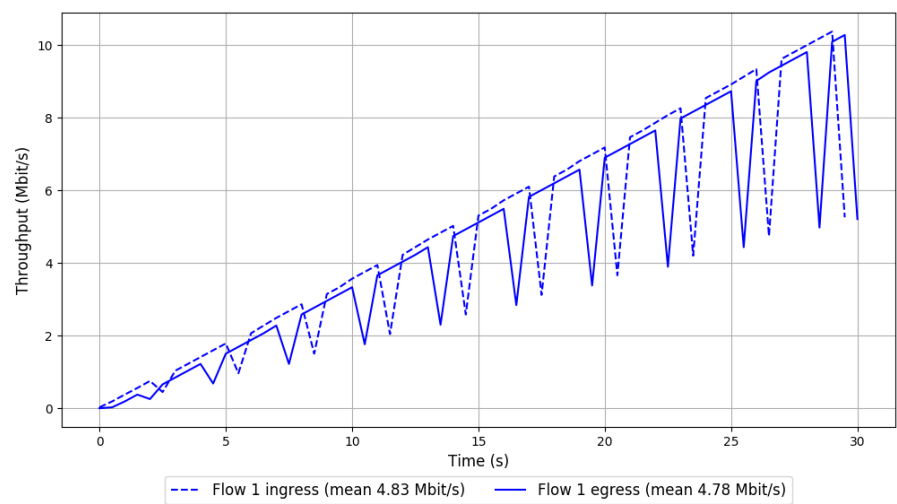
-- Flow 1:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 137.554 ms

Loss rate: 1.83%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-01 01:00:37

End at: 2018-07-01 01:01:07

Local clock offset: 0.177 ms

Remote clock offset: 0.036 ms

Below is generated by plot.py at 2018-07-01 02:52:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 137.018 ms

Loss rate: 1.06%

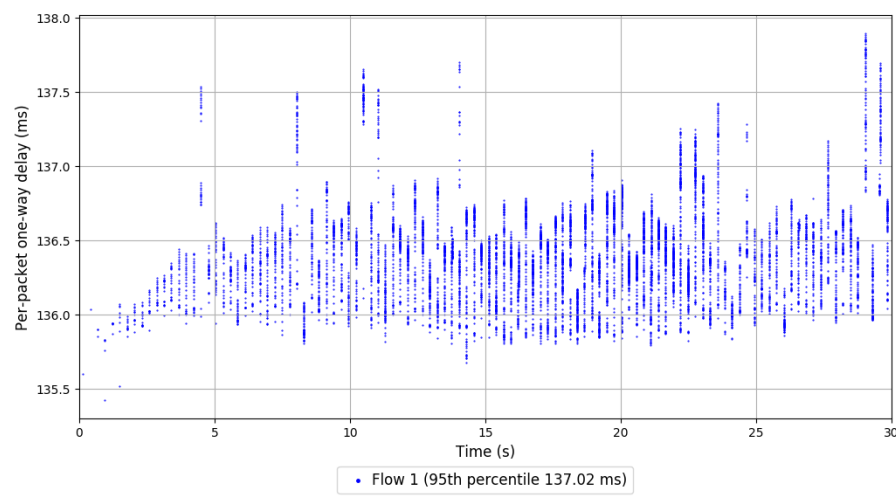
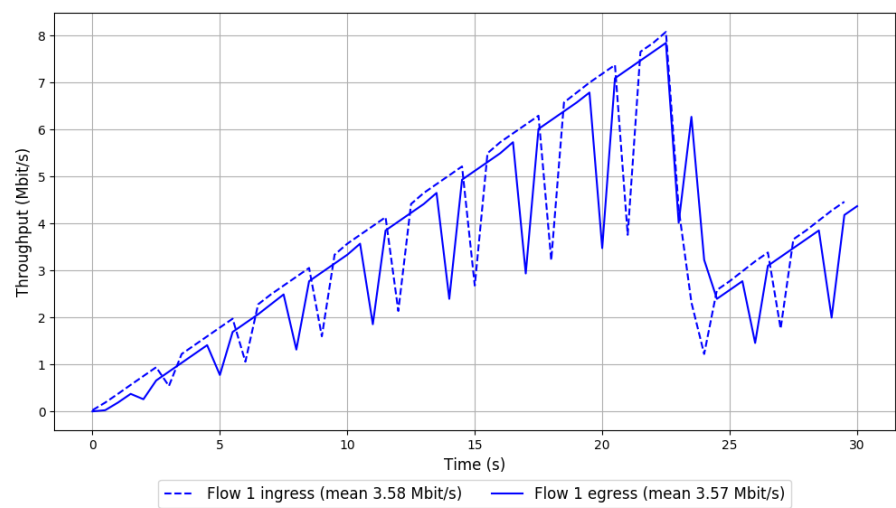
-- Flow 1:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 137.018 ms

Loss rate: 1.06%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-01 01:22:57

End at: 2018-07-01 01:23:27

Local clock offset: 0.238 ms

Remote clock offset: 0.041 ms

Below is generated by plot.py at 2018-07-01 02:52:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.75 Mbit/s

95th percentile per-packet one-way delay: 137.560 ms

Loss rate: 1.83%

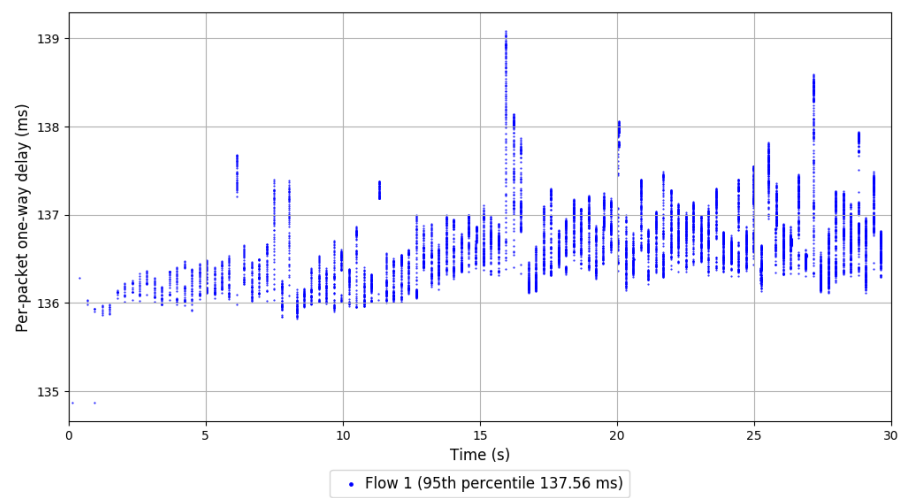
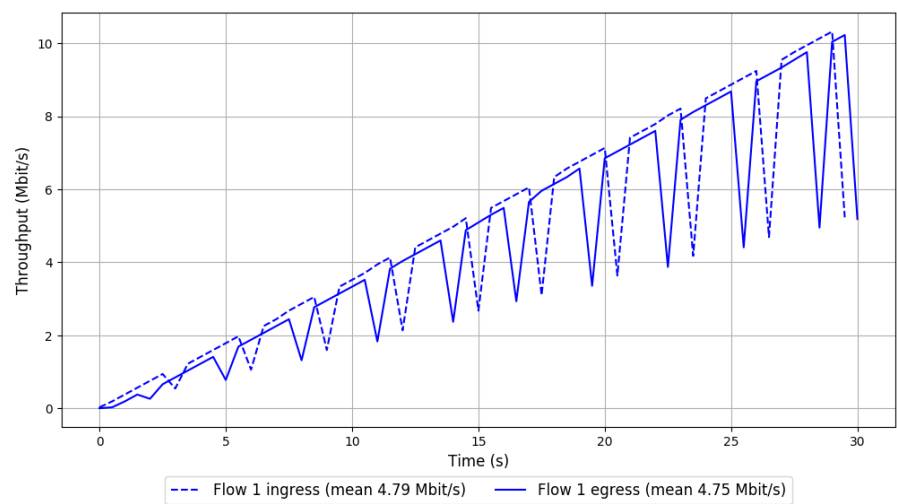
-- Flow 1:

Average throughput: 4.75 Mbit/s

95th percentile per-packet one-way delay: 137.560 ms

Loss rate: 1.83%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-01 01:45:17

End at: 2018-07-01 01:45:47

Local clock offset: 0.181 ms

Remote clock offset: 0.06 ms

Below is generated by plot.py at 2018-07-01 02:52:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.54 Mbit/s

95th percentile per-packet one-way delay: 137.397 ms

Loss rate: 1.08%

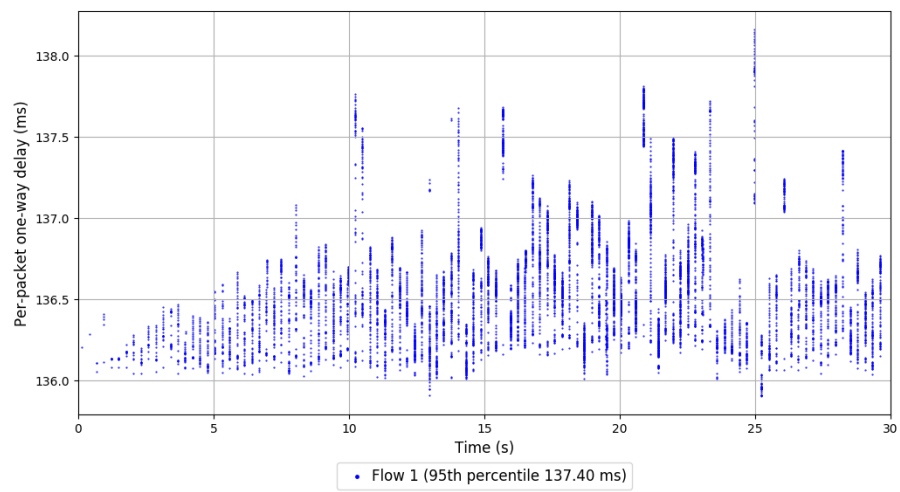
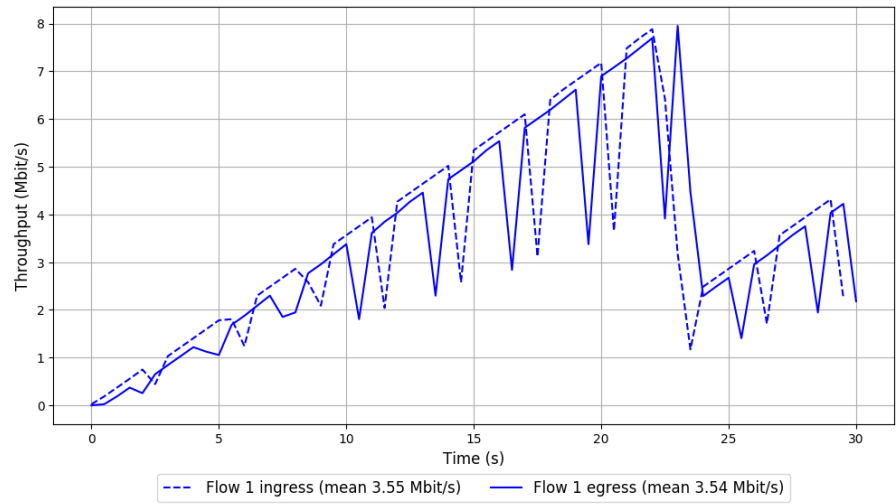
-- Flow 1:

Average throughput: 3.54 Mbit/s

95th percentile per-packet one-way delay: 137.397 ms

Loss rate: 1.08%

Run 10: Report of LEDBAT — Data Link

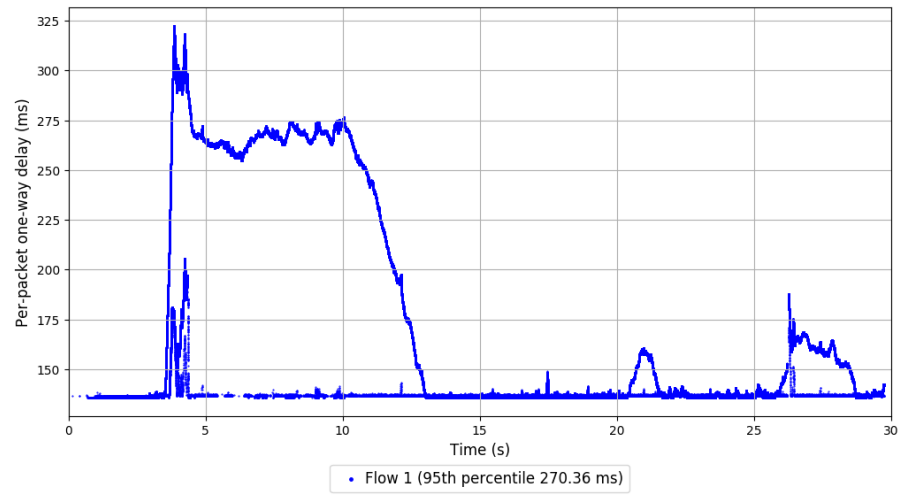
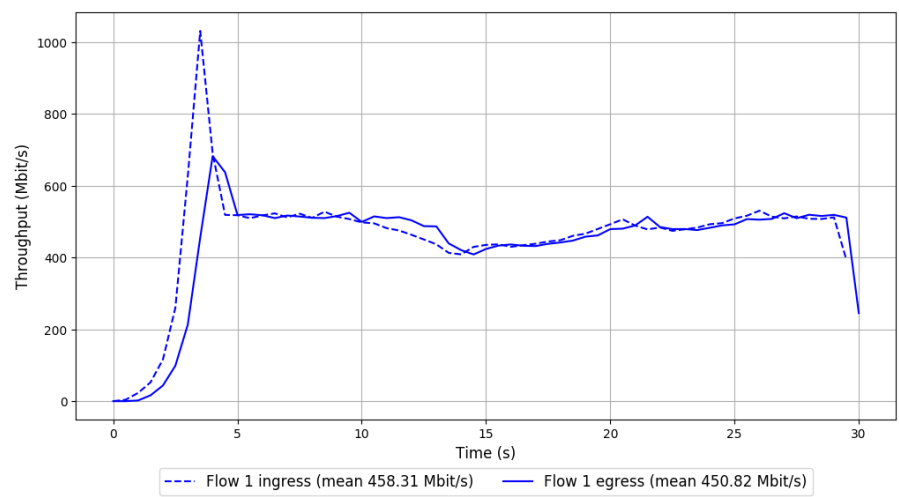


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-30 22:32:25
End at: 2018-06-30 22:32:55
Local clock offset: -0.048 ms
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2018-07-01 02:52:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 450.82 Mbit/s
95th percentile per-packet one-way delay: 270.360 ms
Loss rate: 2.53%
-- Flow 1:
Average throughput: 450.82 Mbit/s
95th percentile per-packet one-way delay: 270.360 ms
Loss rate: 2.53%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-30 22:54:30

End at: 2018-06-30 22:55:00

Local clock offset: -0.095 ms

Remote clock offset: -0.038 ms

Below is generated by plot.py at 2018-07-01 02:52:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 337.45 Mbit/s

95th percentile per-packet one-way delay: 153.514 ms

Loss rate: 1.71%

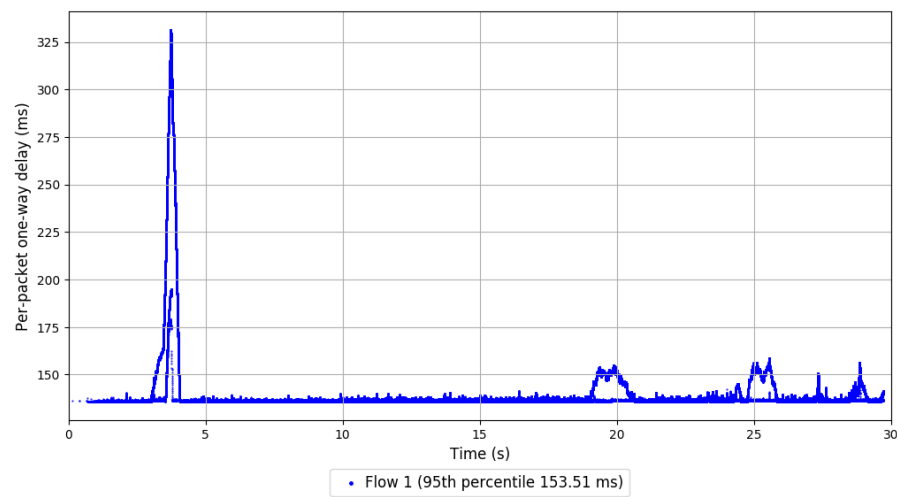
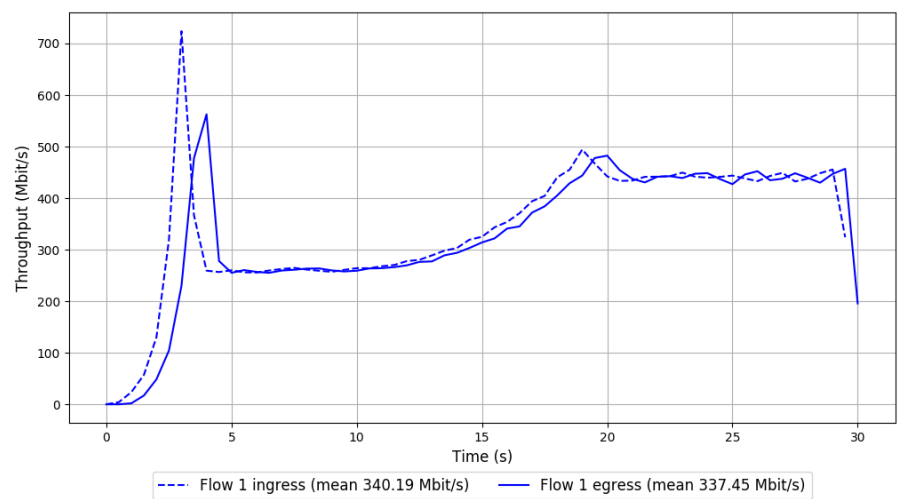
-- Flow 1:

Average throughput: 337.45 Mbit/s

95th percentile per-packet one-way delay: 153.514 ms

Loss rate: 1.71%

Run 2: Report of PCC-Allegro — Data Link

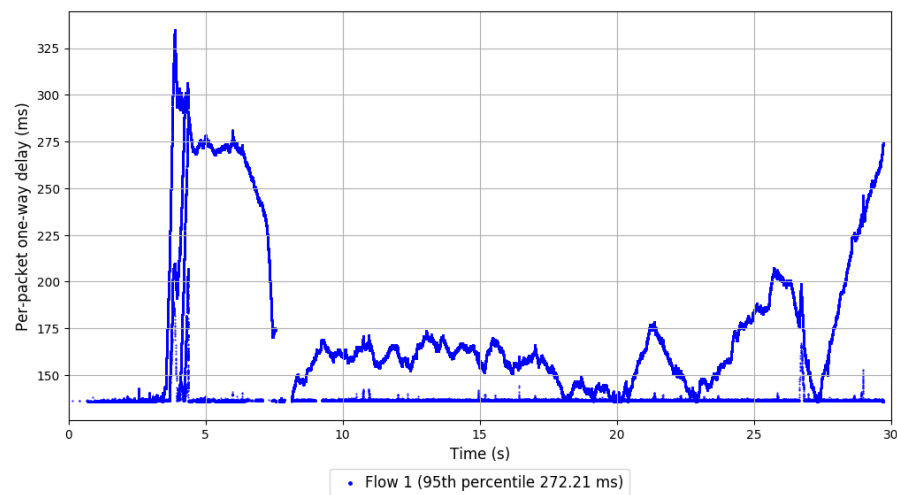
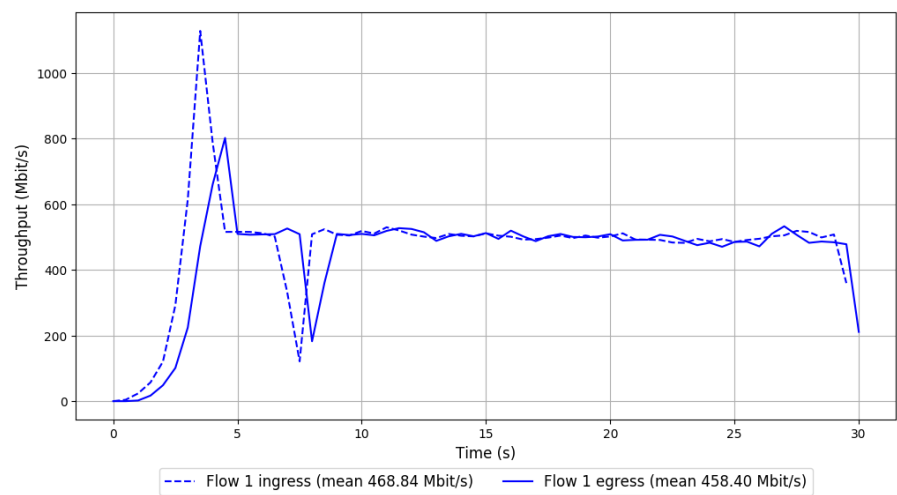


Run 3: Statistics of PCC-Allegro

Start at: 2018-06-30 23:16:20
End at: 2018-06-30 23:16:50
Local clock offset: -0.054 ms
Remote clock offset: -0.045 ms

Below is generated by plot.py at 2018-07-01 02:52:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 458.40 Mbit/s
95th percentile per-packet one-way delay: 272.215 ms
Loss rate: 3.12%
-- Flow 1:
Average throughput: 458.40 Mbit/s
95th percentile per-packet one-way delay: 272.215 ms
Loss rate: 3.12%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-30 23:38:20

End at: 2018-06-30 23:38:50

Local clock offset: -0.043 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2018-07-01 02:52:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 363.25 Mbit/s

95th percentile per-packet one-way delay: 188.724 ms

Loss rate: 1.53%

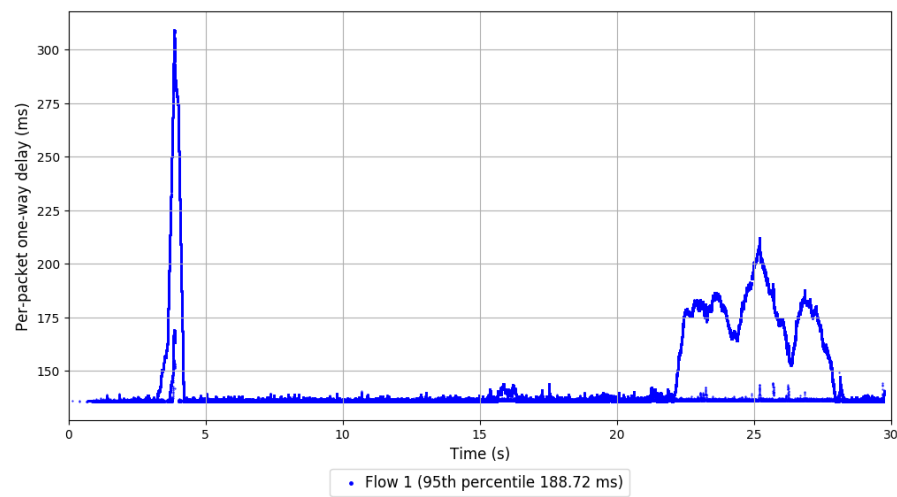
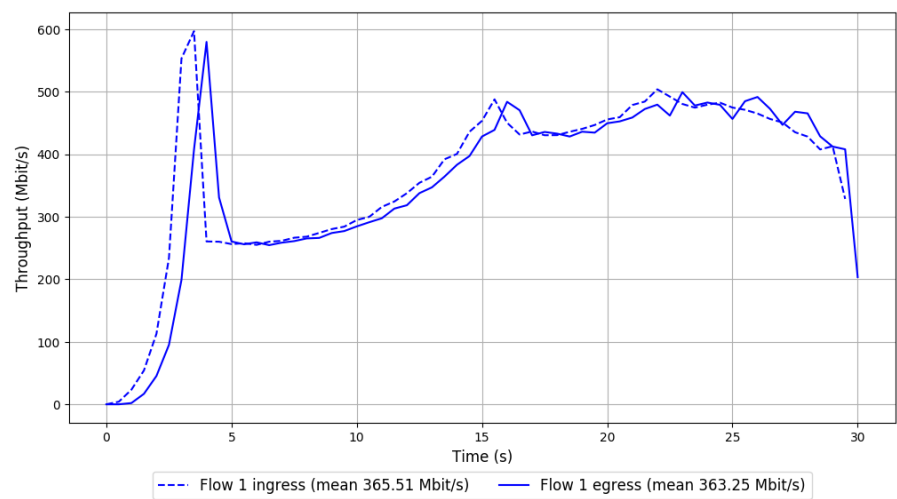
-- Flow 1:

Average throughput: 363.25 Mbit/s

95th percentile per-packet one-way delay: 188.724 ms

Loss rate: 1.53%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-01 00:00:05

End at: 2018-07-01 00:00:35

Local clock offset: 0.181 ms

Remote clock offset: 0.096 ms

Below is generated by plot.py at 2018-07-01 02:52:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 448.85 Mbit/s

95th percentile per-packet one-way delay: 270.691 ms

Loss rate: 2.71%

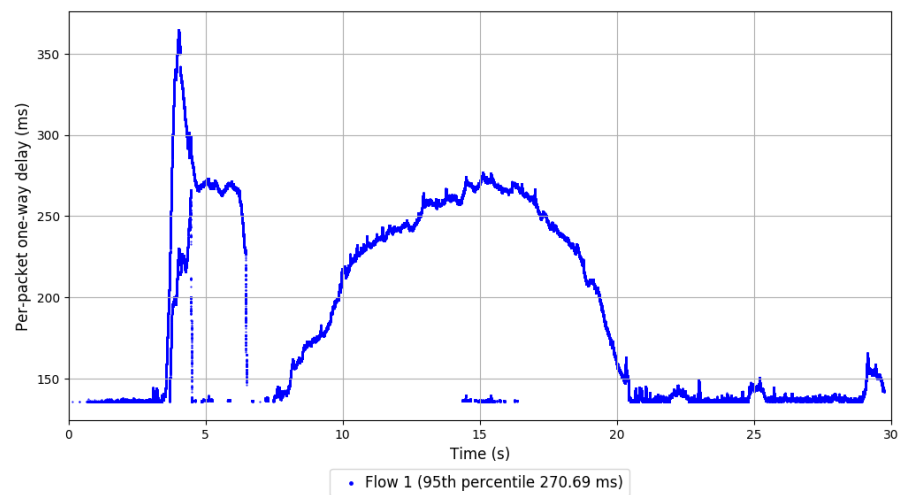
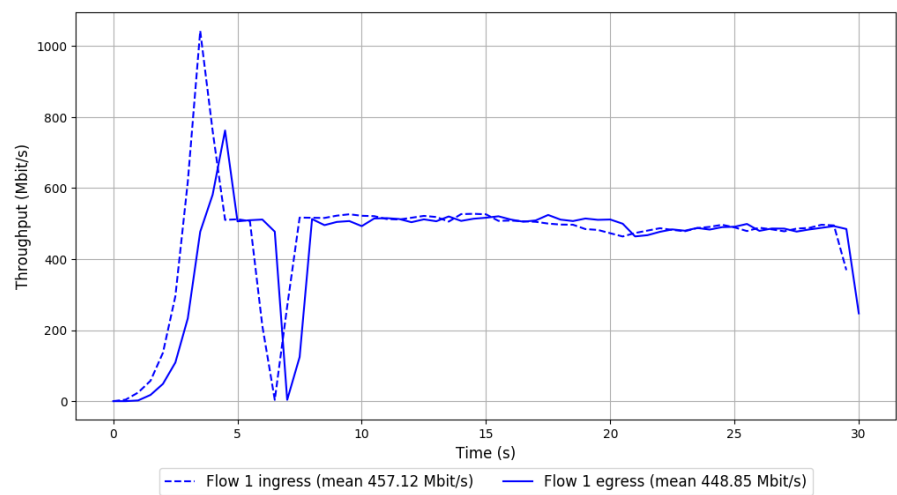
-- Flow 1:

Average throughput: 448.85 Mbit/s

95th percentile per-packet one-way delay: 270.691 ms

Loss rate: 2.71%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-01 00:22:08

End at: 2018-07-01 00:22:38

Local clock offset: 0.201 ms

Remote clock offset: -0.313 ms

Below is generated by plot.py at 2018-07-01 02:52:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 445.40 Mbit/s

95th percentile per-packet one-way delay: 273.337 ms

Loss rate: 2.72%

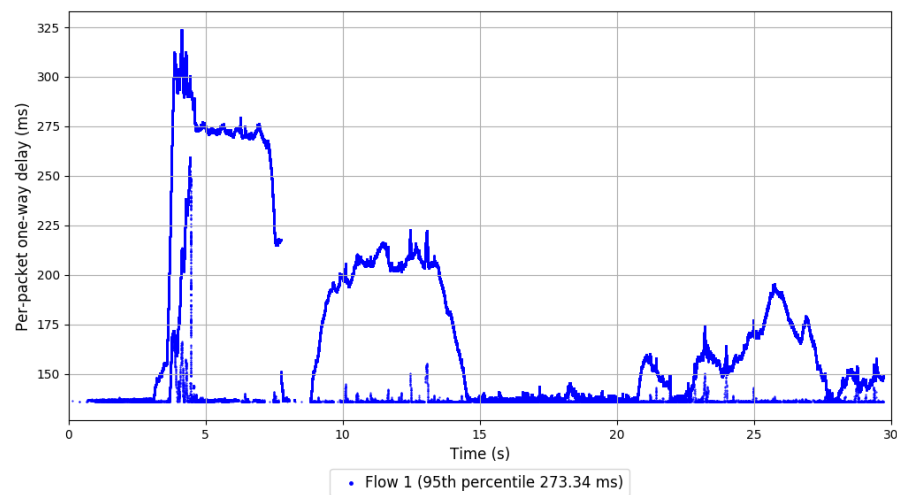
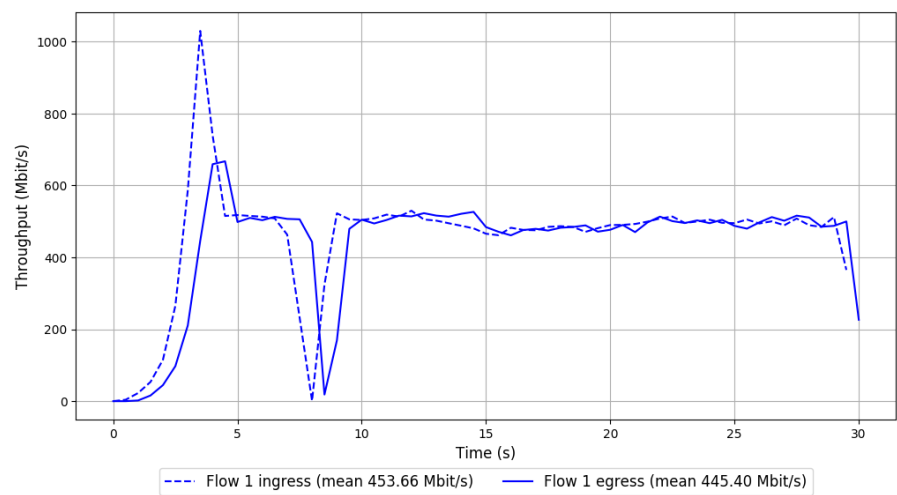
-- Flow 1:

Average throughput: 445.40 Mbit/s

95th percentile per-packet one-way delay: 273.337 ms

Loss rate: 2.72%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-01 00:44:09

End at: 2018-07-01 00:44:39

Local clock offset: 0.29 ms

Remote clock offset: 0.041 ms

Below is generated by plot.py at 2018-07-01 02:54:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 457.39 Mbit/s

95th percentile per-packet one-way delay: 241.828 ms

Loss rate: 2.64%

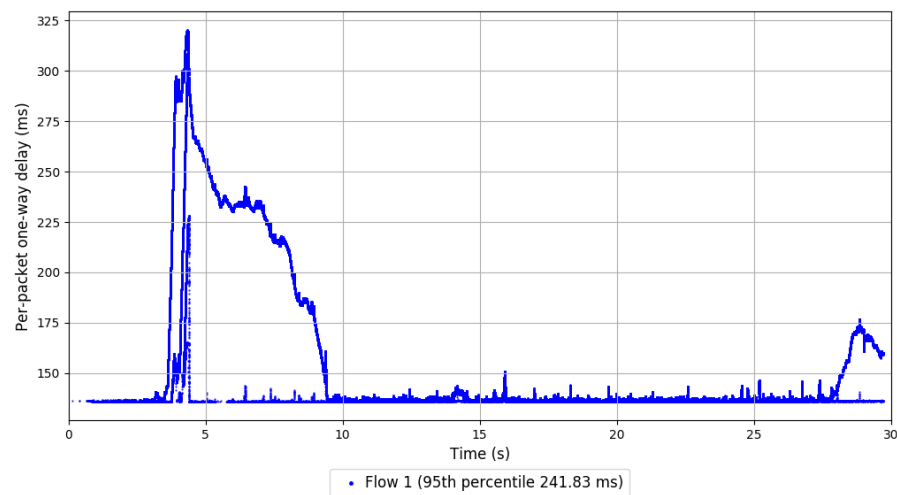
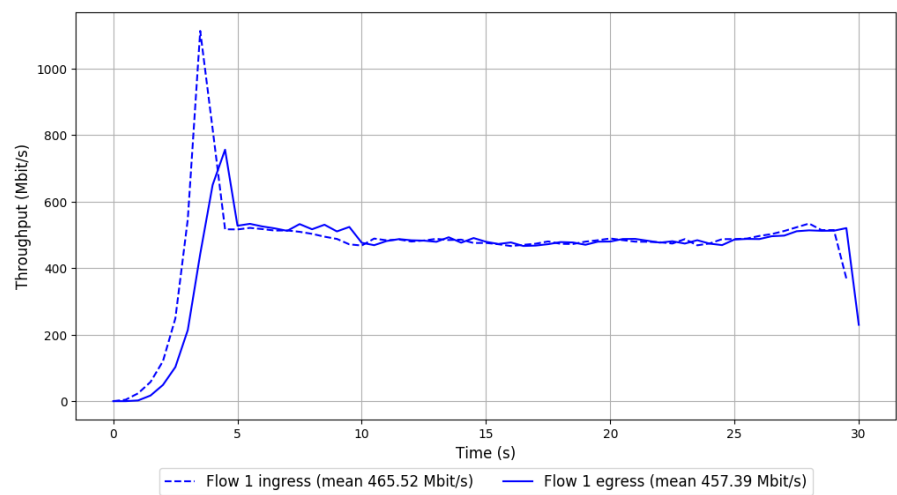
-- Flow 1:

Average throughput: 457.39 Mbit/s

95th percentile per-packet one-way delay: 241.828 ms

Loss rate: 2.64%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-01 01:06:05

End at: 2018-07-01 01:06:35

Local clock offset: 0.42 ms

Remote clock offset: 0.064 ms

Below is generated by plot.py at 2018-07-01 02:54:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 439.83 Mbit/s

95th percentile per-packet one-way delay: 271.851 ms

Loss rate: 2.84%

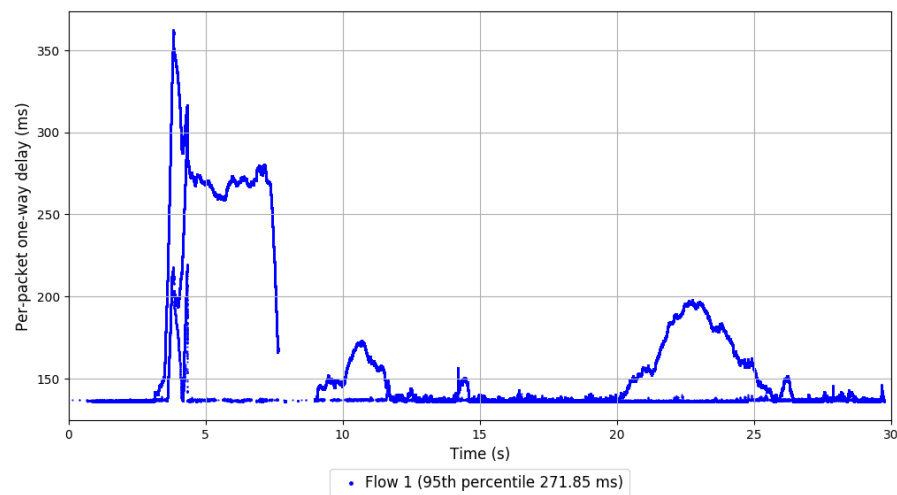
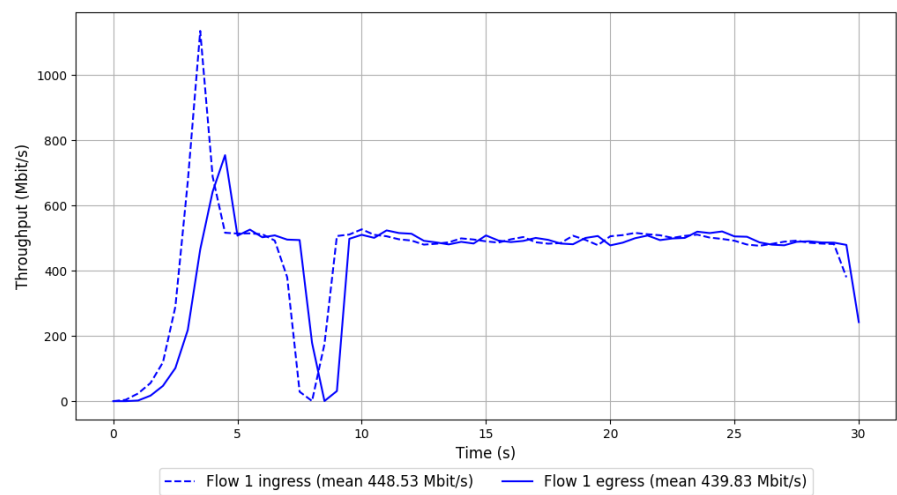
-- Flow 1:

Average throughput: 439.83 Mbit/s

95th percentile per-packet one-way delay: 271.851 ms

Loss rate: 2.84%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-01 01:28:32

End at: 2018-07-01 01:29:02

Local clock offset: 0.315 ms

Remote clock offset: 0.075 ms

Below is generated by plot.py at 2018-07-01 02:54:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 251.20 Mbit/s

95th percentile per-packet one-way delay: 261.223 ms

Loss rate: 4.27%

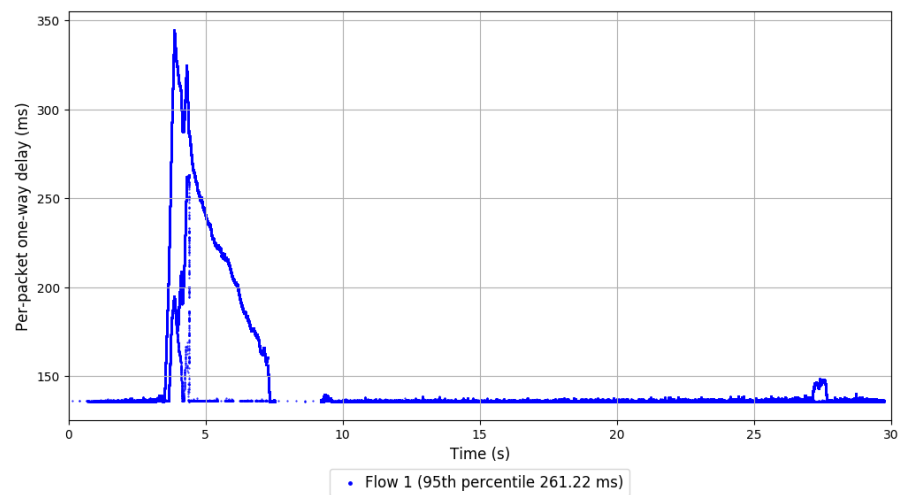
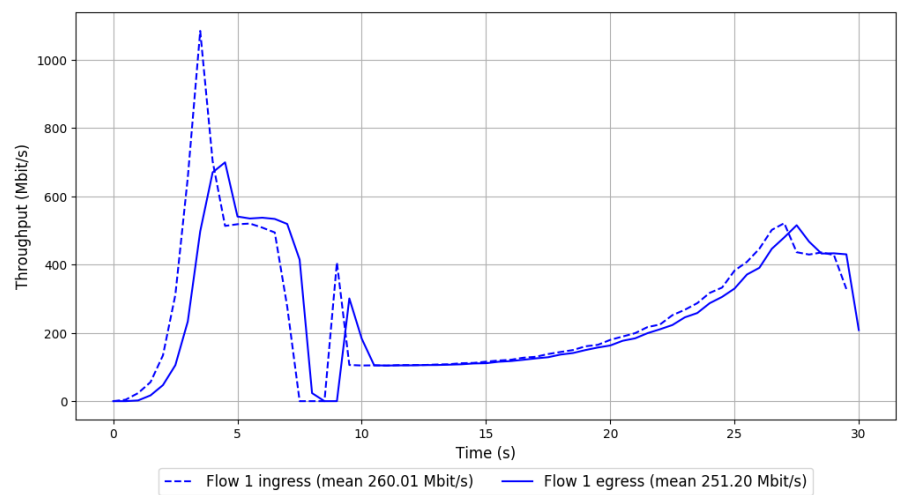
-- Flow 1:

Average throughput: 251.20 Mbit/s

95th percentile per-packet one-way delay: 261.223 ms

Loss rate: 4.27%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-01 01:50:47

End at: 2018-07-01 01:51:17

Local clock offset: 0.15 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-07-01 02:56:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 474.49 Mbit/s

95th percentile per-packet one-way delay: 210.318 ms

Loss rate: 2.46%

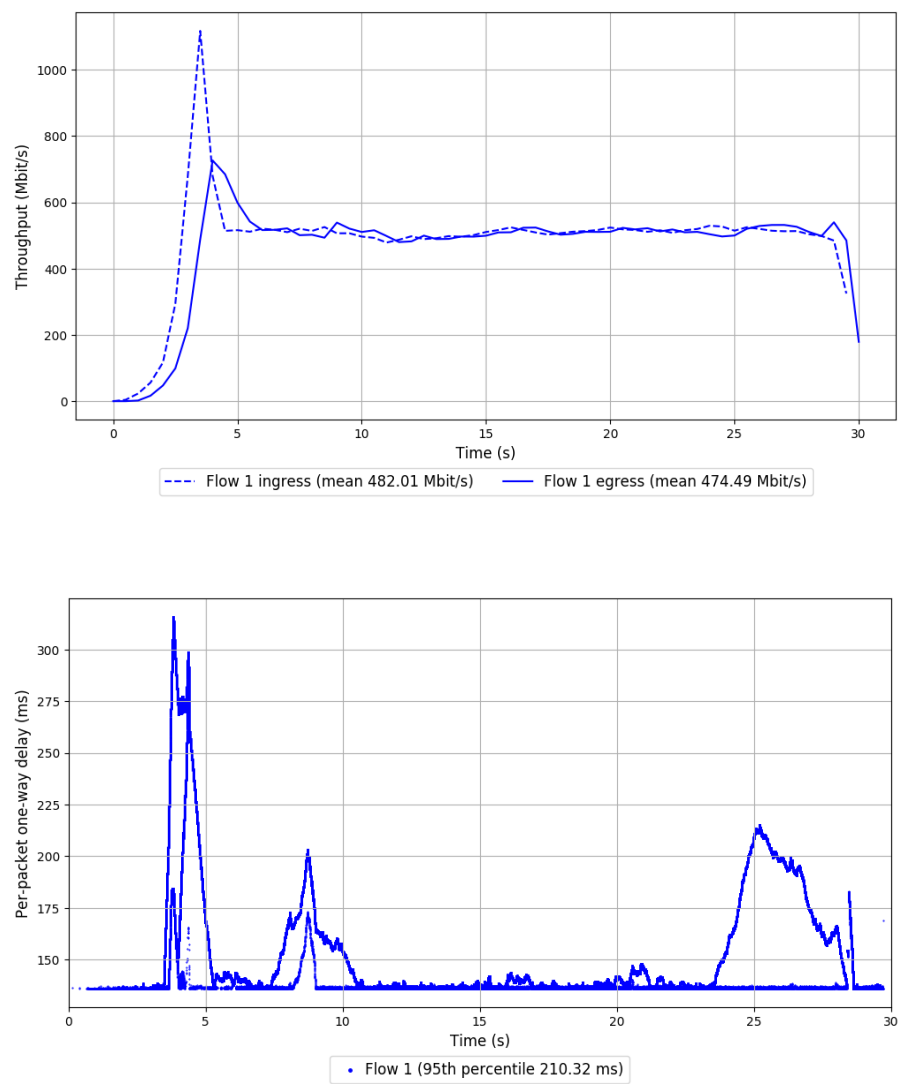
-- Flow 1:

Average throughput: 474.49 Mbit/s

95th percentile per-packet one-way delay: 210.318 ms

Loss rate: 2.46%

Run 10: Report of PCC-Allegro — Data Link

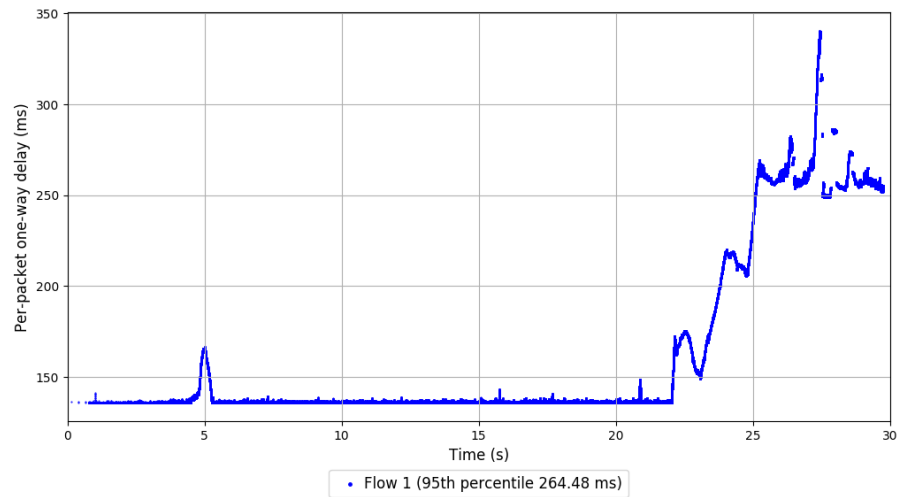
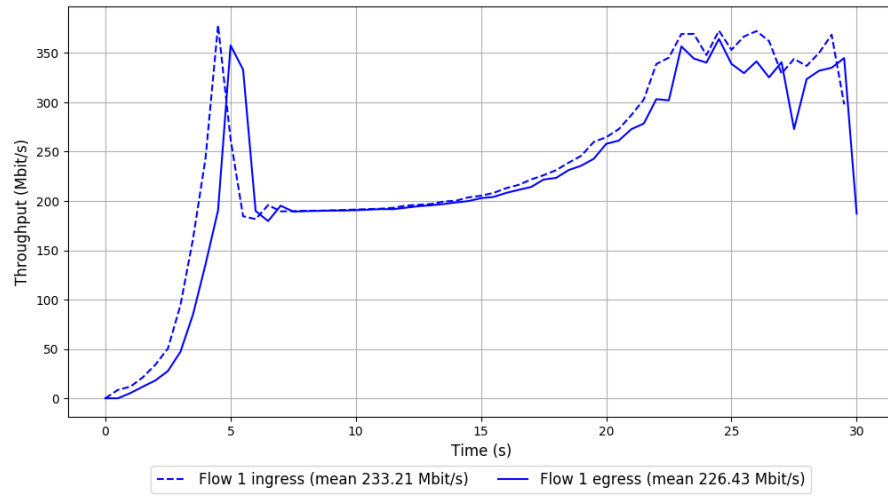


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-30 22:25:26
End at: 2018-06-30 22:25:56
Local clock offset: 0.02 ms
Remote clock offset: 0.024 ms

# Below is generated by plot.py at 2018-07-01 02:56:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.43 Mbit/s
95th percentile per-packet one-way delay: 264.475 ms
Loss rate: 3.79%
-- Flow 1:
Average throughput: 226.43 Mbit/s
95th percentile per-packet one-way delay: 264.475 ms
Loss rate: 3.79%
```

Run 1: Report of PCC-Expr — Data Link

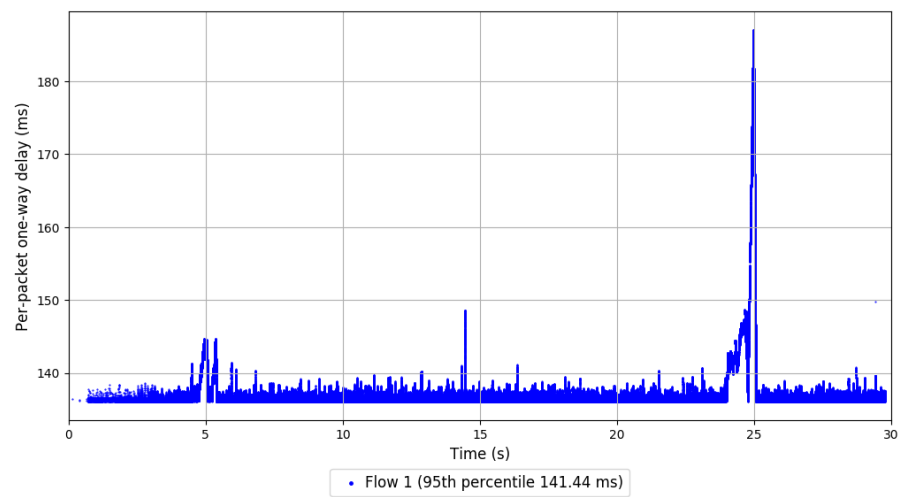
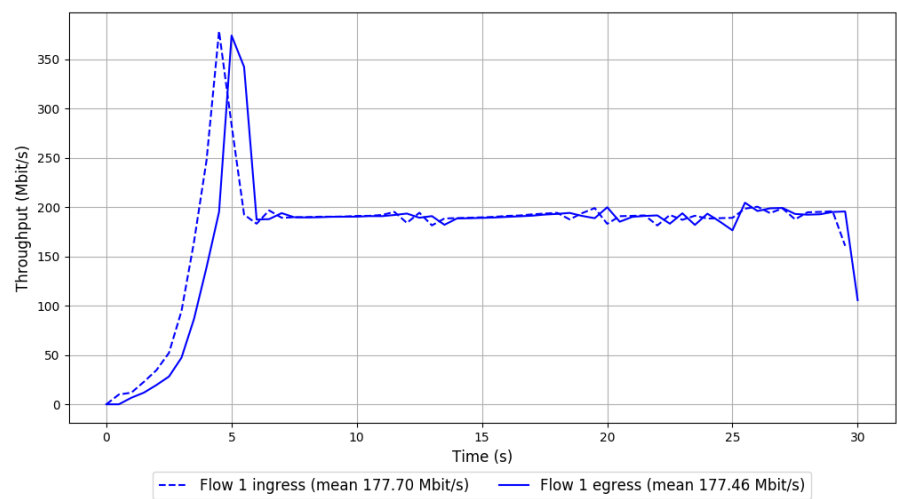


```
Run 2: Statistics of PCC-Expr

Start at: 2018-06-30 22:47:35
End at: 2018-06-30 22:48:05
Local clock offset: 0.244 ms
Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2018-07-01 02:56:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 177.46 Mbit/s
95th percentile per-packet one-way delay: 141.445 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 177.46 Mbit/s
95th percentile per-packet one-way delay: 141.445 ms
Loss rate: 1.04%
```

Run 2: Report of PCC-Expr — Data Link

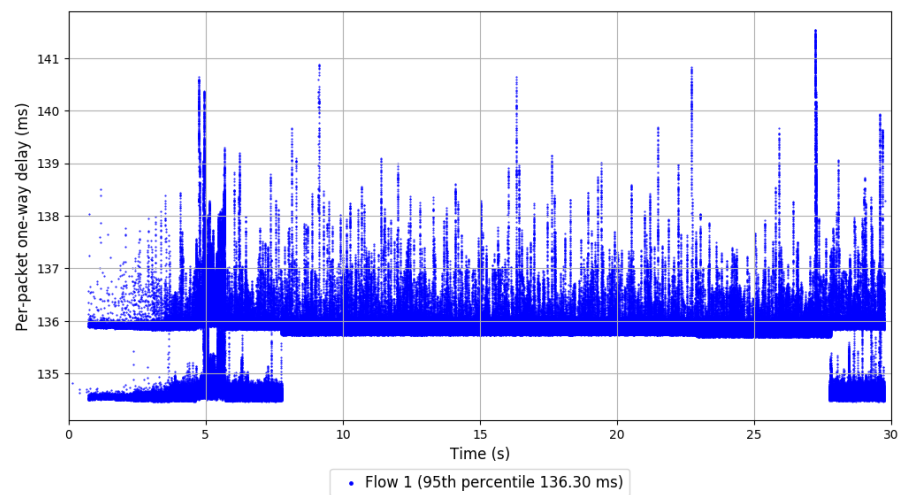
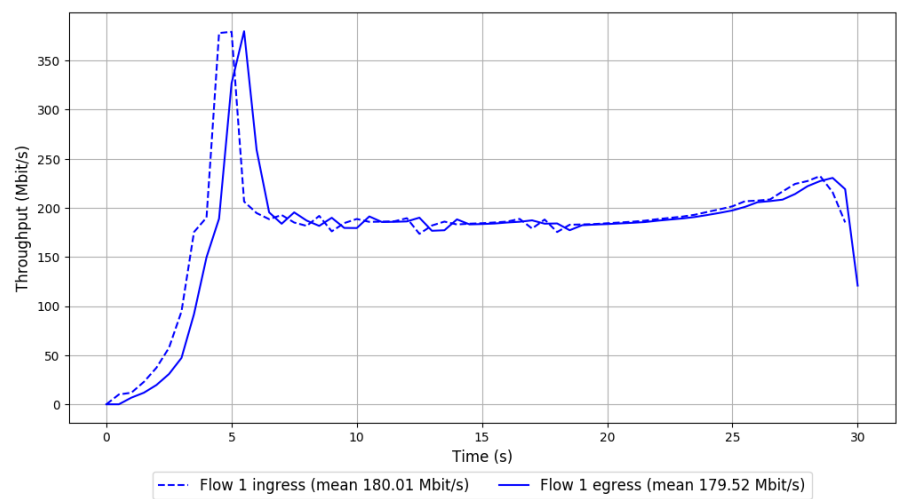


```
Run 3: Statistics of PCC-Expr

Start at: 2018-06-30 23:09:22
End at: 2018-06-30 23:09:52
Local clock offset: 0.01 ms
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2018-07-01 02:56:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 179.52 Mbit/s
95th percentile per-packet one-way delay: 136.298 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 179.52 Mbit/s
95th percentile per-packet one-way delay: 136.298 ms
Loss rate: 1.16%
```

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-06-30 23:31:26

End at: 2018-06-30 23:31:56

Local clock offset: 0.046 ms

Remote clock offset: 0.044 ms

Below is generated by plot.py at 2018-07-01 02:58:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.70 Mbit/s

95th percentile per-packet one-way delay: 206.268 ms

Loss rate: 1.47%

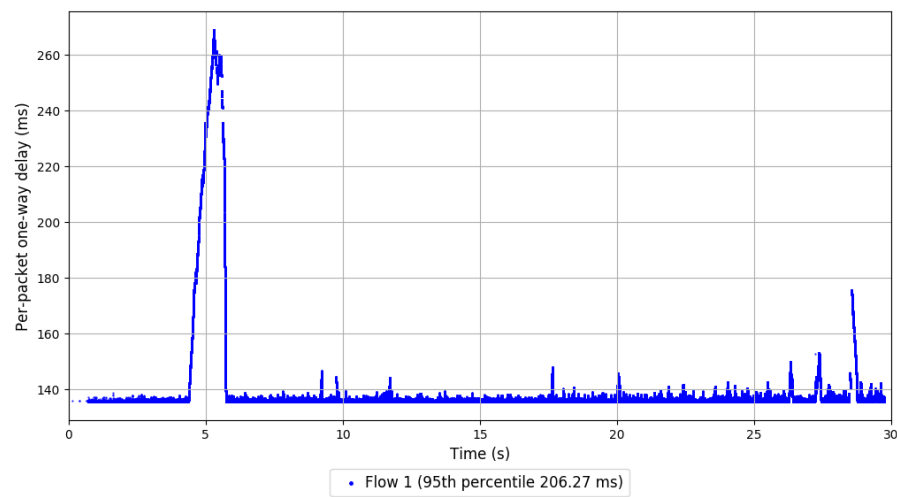
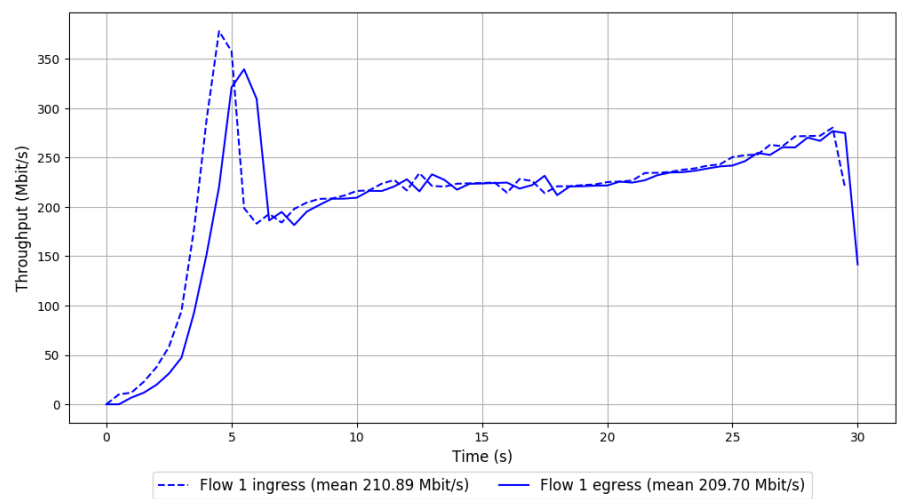
-- Flow 1:

Average throughput: 209.70 Mbit/s

95th percentile per-packet one-way delay: 206.268 ms

Loss rate: 1.47%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-30 23:53:17

End at: 2018-06-30 23:53:47

Local clock offset: 0.263 ms

Remote clock offset: 0.153 ms

Below is generated by plot.py at 2018-07-01 02:58:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.65 Mbit/s

95th percentile per-packet one-way delay: 157.072 ms

Loss rate: 1.00%

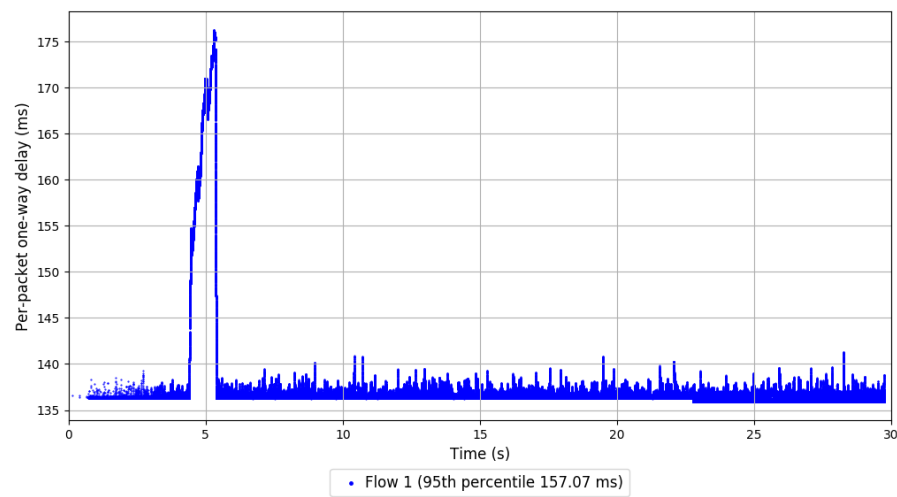
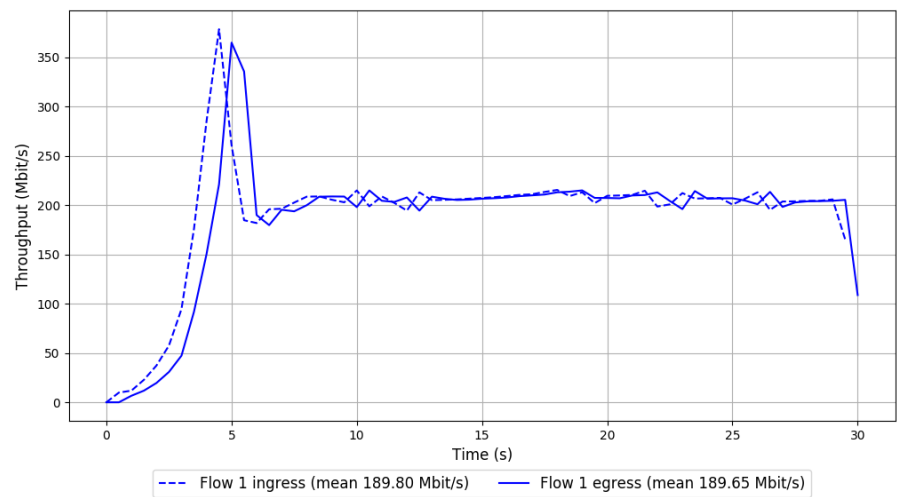
-- Flow 1:

Average throughput: 189.65 Mbit/s

95th percentile per-packet one-way delay: 157.072 ms

Loss rate: 1.00%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-01 00:15:07

End at: 2018-07-01 00:15:37

Local clock offset: 0.261 ms

Remote clock offset: 0.421 ms

Below is generated by plot.py at 2018-07-01 03:03:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 270.13 Mbit/s

95th percentile per-packet one-way delay: 263.373 ms

Loss rate: 4.18%

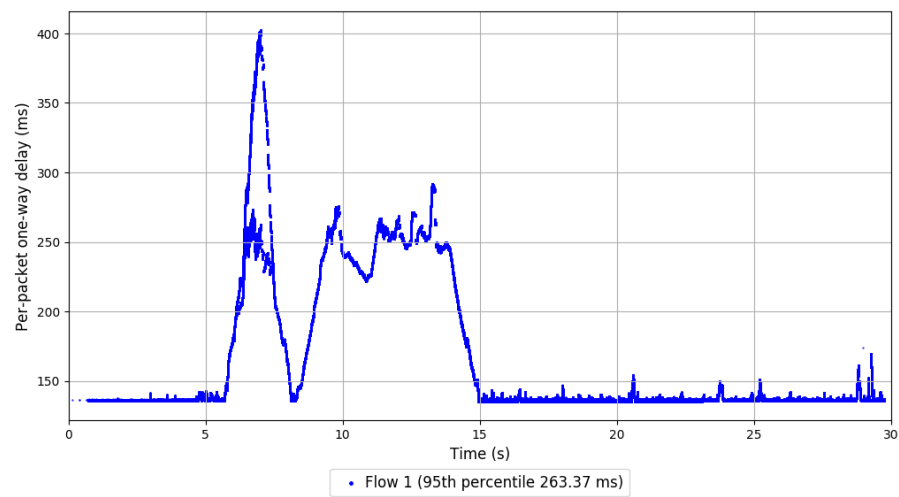
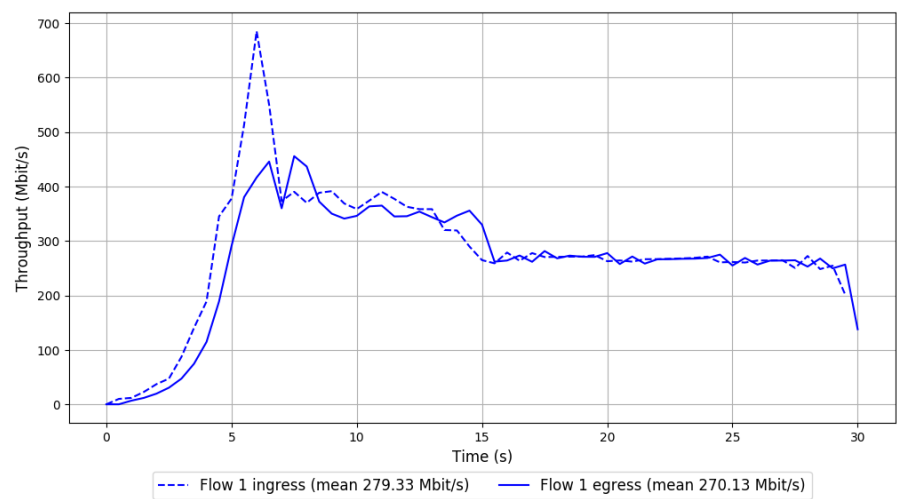
-- Flow 1:

Average throughput: 270.13 Mbit/s

95th percentile per-packet one-way delay: 263.373 ms

Loss rate: 4.18%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-01 00:37:09

End at: 2018-07-01 00:37:39

Local clock offset: 0.261 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2018-07-01 03:03:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.49 Mbit/s

95th percentile per-packet one-way delay: 138.834 ms

Loss rate: 1.13%

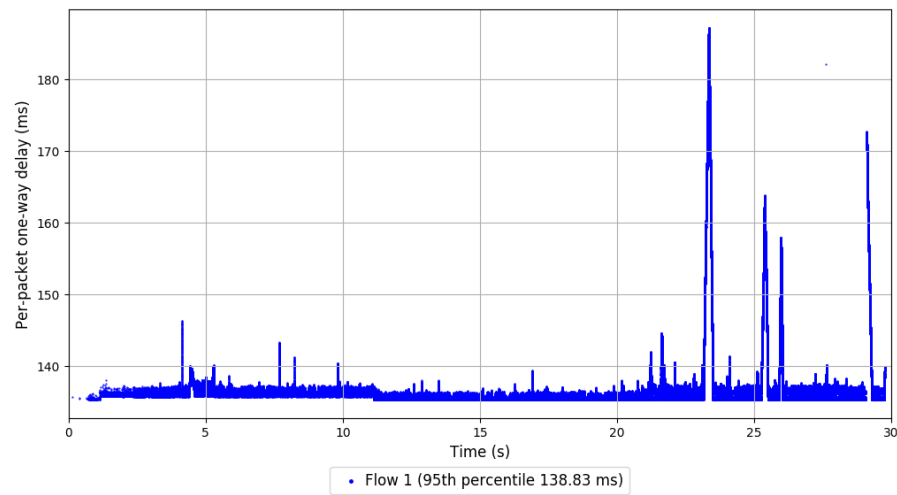
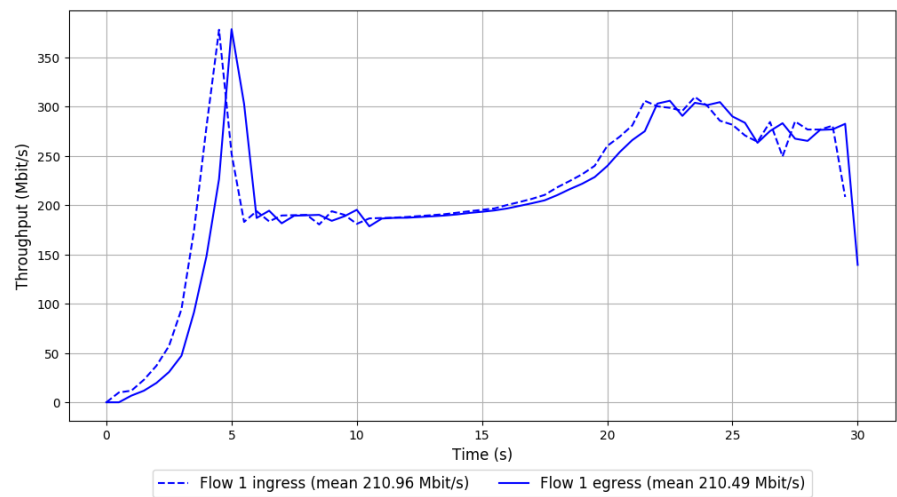
-- Flow 1:

Average throughput: 210.49 Mbit/s

95th percentile per-packet one-way delay: 138.834 ms

Loss rate: 1.13%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-01 00:59:07

End at: 2018-07-01 00:59:37

Local clock offset: 0.354 ms

Remote clock offset: 0.066 ms

Below is generated by plot.py at 2018-07-01 03:03:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.23 Mbit/s

95th percentile per-packet one-way delay: 263.852 ms

Loss rate: 3.95%

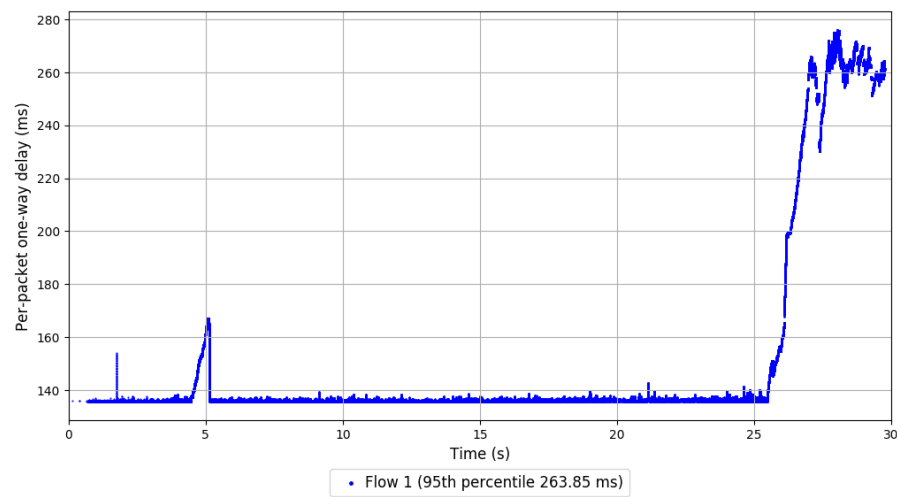
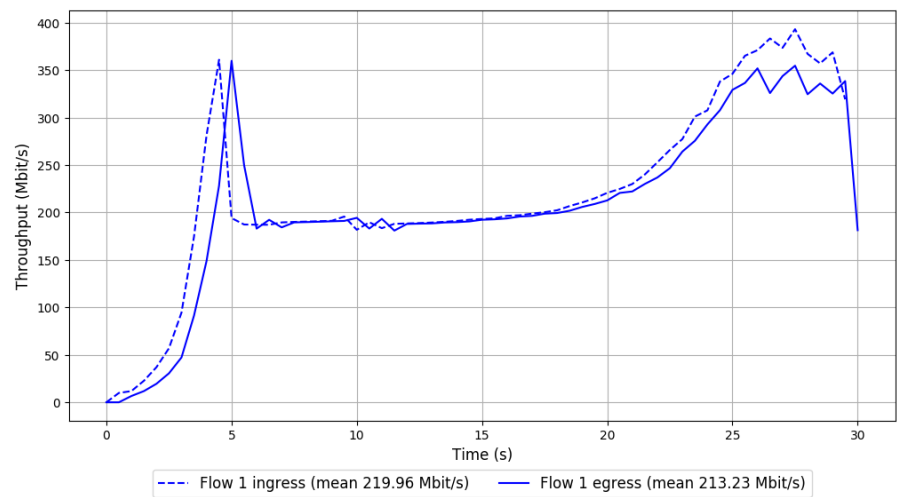
-- Flow 1:

Average throughput: 213.23 Mbit/s

95th percentile per-packet one-way delay: 263.852 ms

Loss rate: 3.95%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-01 01:21:25

End at: 2018-07-01 01:21:55

Local clock offset: 0.291 ms

Remote clock offset: 0.06 ms

Below is generated by plot.py at 2018-07-01 03:03:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.85 Mbit/s

95th percentile per-packet one-way delay: 258.264 ms

Loss rate: 2.63%

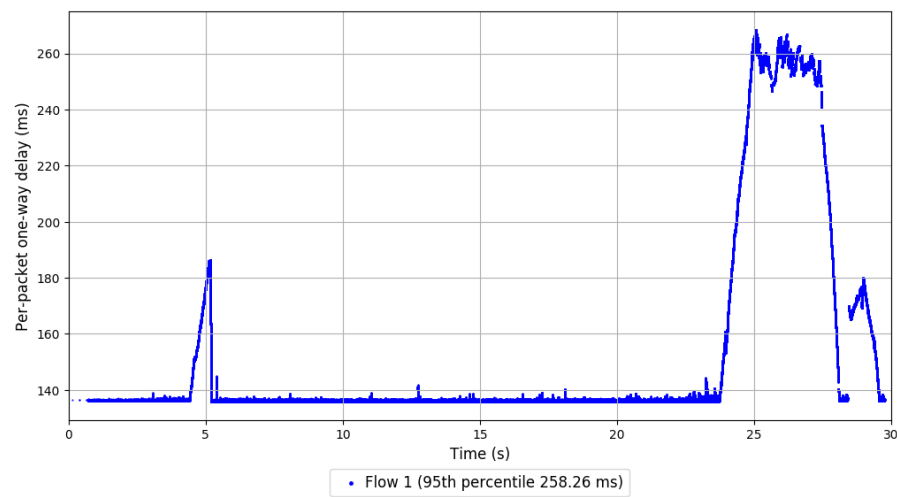
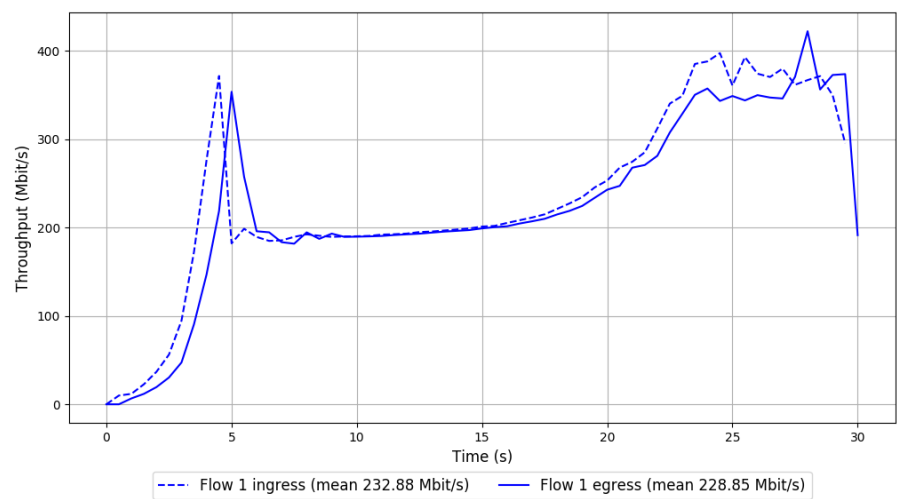
-- Flow 1:

Average throughput: 228.85 Mbit/s

95th percentile per-packet one-way delay: 258.264 ms

Loss rate: 2.63%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-01 01:43:39

End at: 2018-07-01 01:44:09

Local clock offset: 0.352 ms

Remote clock offset: 0.101 ms

Below is generated by plot.py at 2018-07-01 03:06:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 288.93 Mbit/s

95th percentile per-packet one-way delay: 261.391 ms

Loss rate: 3.92%

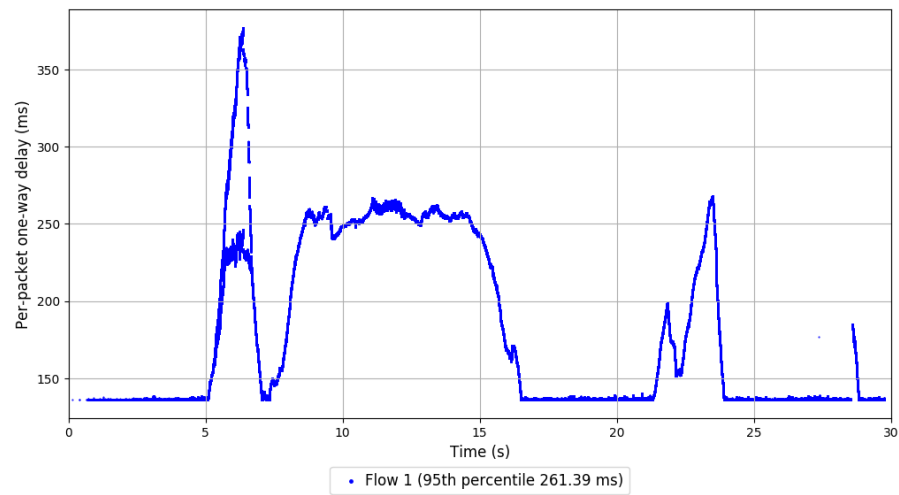
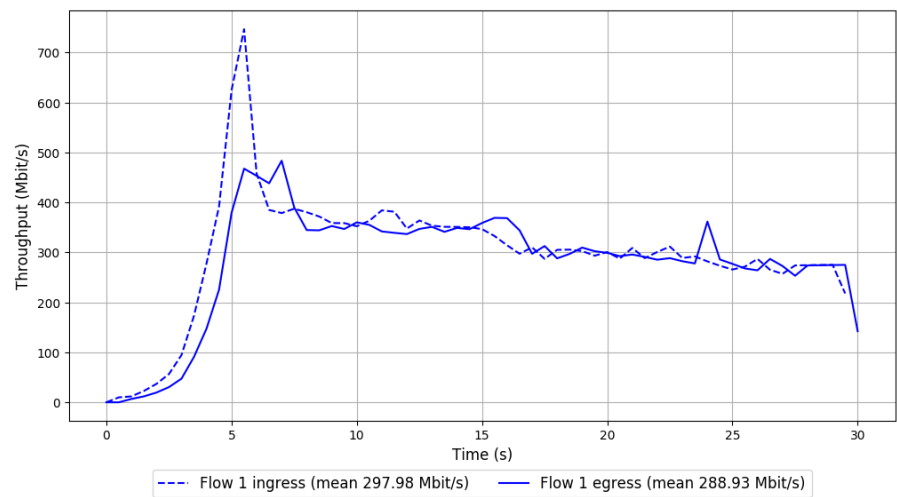
-- Flow 1:

Average throughput: 288.93 Mbit/s

95th percentile per-packet one-way delay: 261.391 ms

Loss rate: 3.92%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-06-30 22:36:32

End at: 2018-06-30 22:37:02

Local clock offset: -0.102 ms

Remote clock offset: -0.339 ms

Below is generated by plot.py at 2018-07-01 03:06:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.59 Mbit/s

95th percentile per-packet one-way delay: 136.531 ms

Loss rate: 1.44%

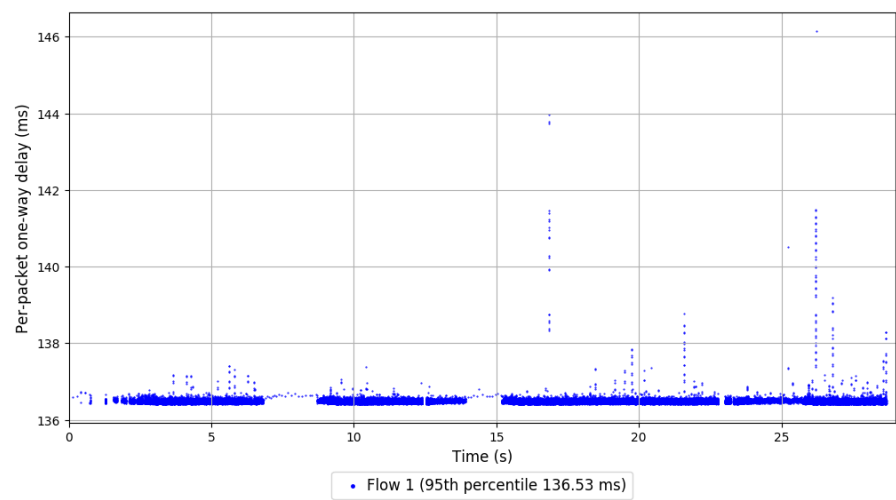
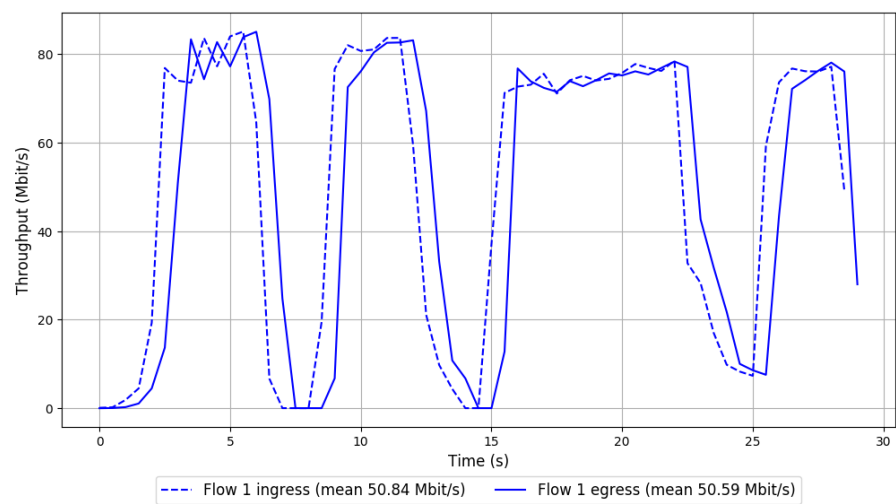
-- Flow 1:

Average throughput: 50.59 Mbit/s

95th percentile per-packet one-way delay: 136.531 ms

Loss rate: 1.44%

Run 1: Report of QUIC Cubic — Data Link

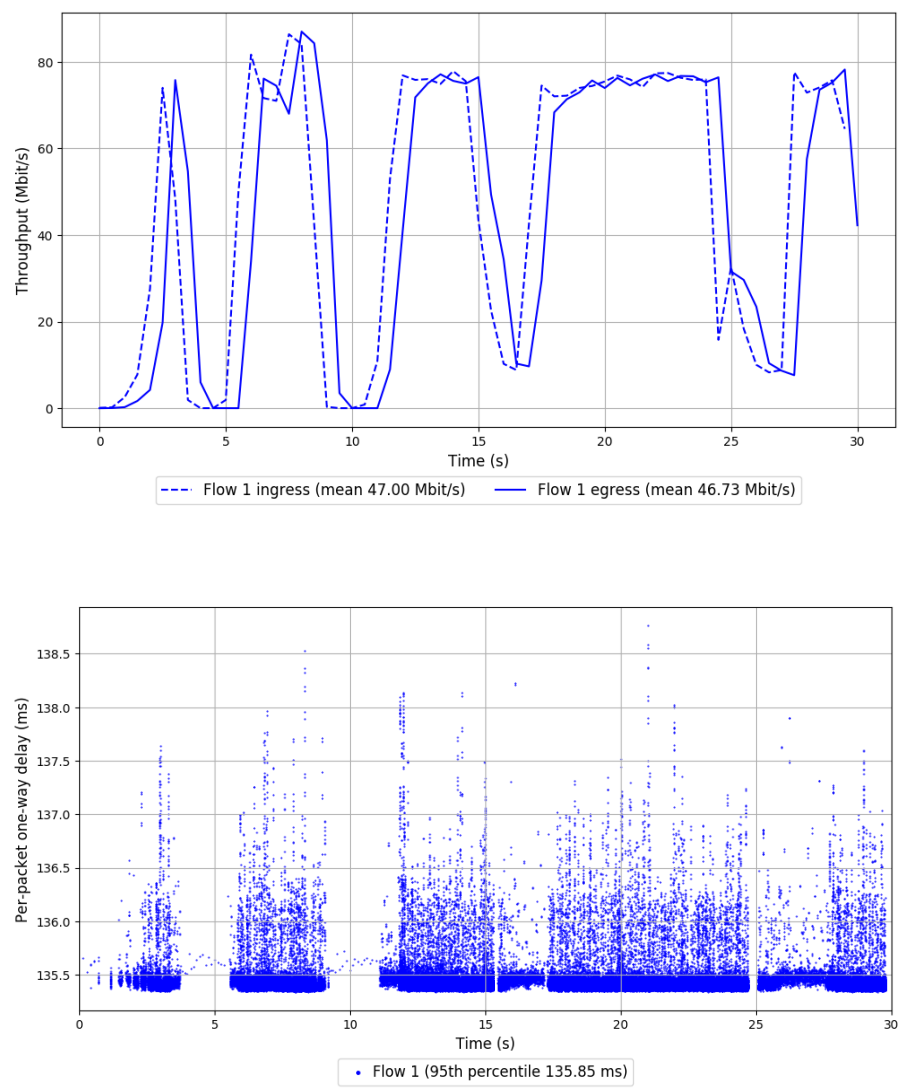


Run 2: Statistics of QUIC Cubic

Start at: 2018-06-30 22:58:15
End at: 2018-06-30 22:58:45
Local clock offset: 0.112 ms
Remote clock offset: -0.384 ms

Below is generated by plot.py at 2018-07-01 03:06:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 46.73 Mbit/s
95th percentile per-packet one-way delay: 135.853 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 46.73 Mbit/s
95th percentile per-packet one-way delay: 135.853 ms
Loss rate: 1.47%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-30 23:20:26

End at: 2018-06-30 23:20:56

Local clock offset: 0.1 ms

Remote clock offset: -0.083 ms

Below is generated by plot.py at 2018-07-01 03:06:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.62 Mbit/s

95th percentile per-packet one-way delay: 136.802 ms

Loss rate: 1.39%

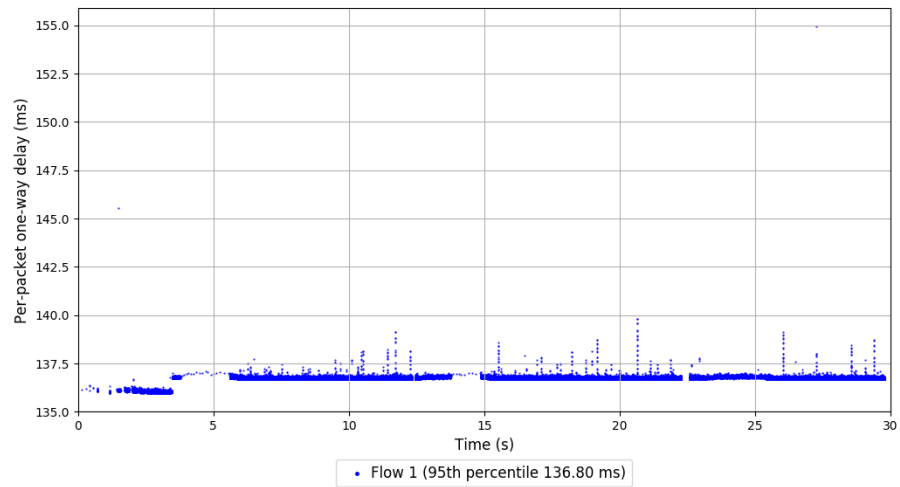
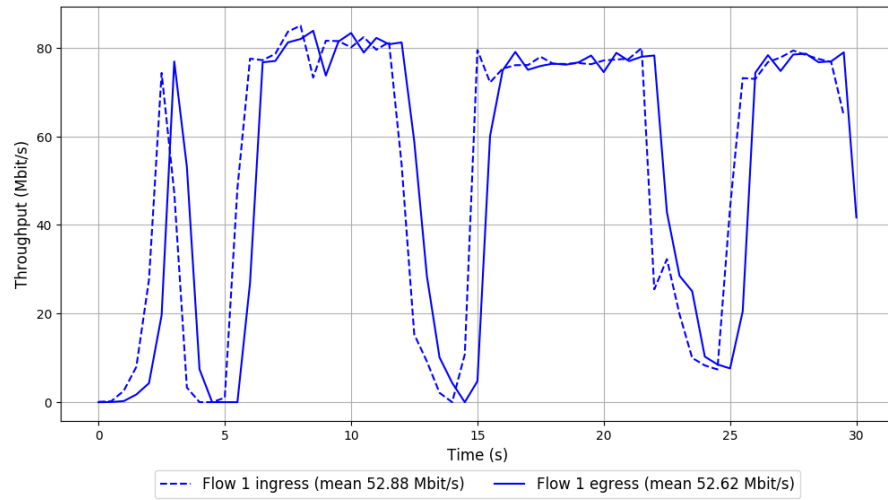
-- Flow 1:

Average throughput: 52.62 Mbit/s

95th percentile per-packet one-way delay: 136.802 ms

Loss rate: 1.39%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-30 23:42:05

End at: 2018-06-30 23:42:35

Local clock offset: -0.112 ms

Remote clock offset: 0.039 ms

Below is generated by plot.py at 2018-07-01 03:06:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.12 Mbit/s

95th percentile per-packet one-way delay: 135.741 ms

Loss rate: 1.41%

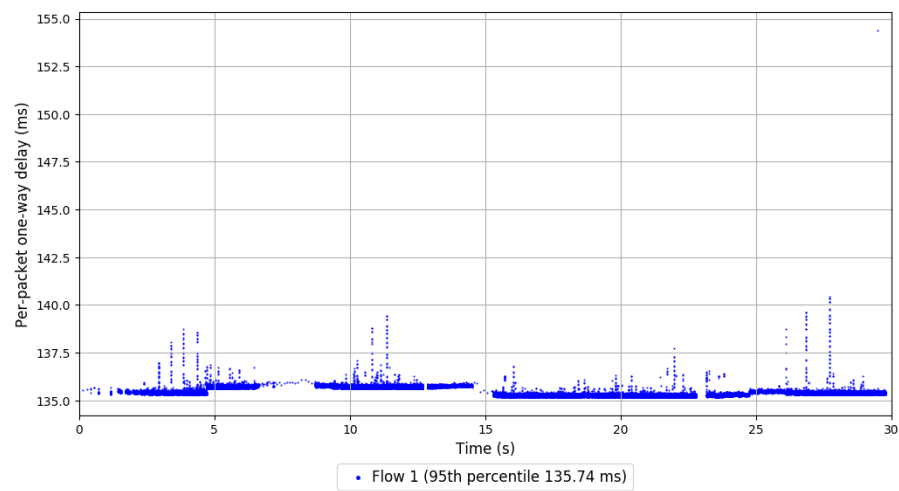
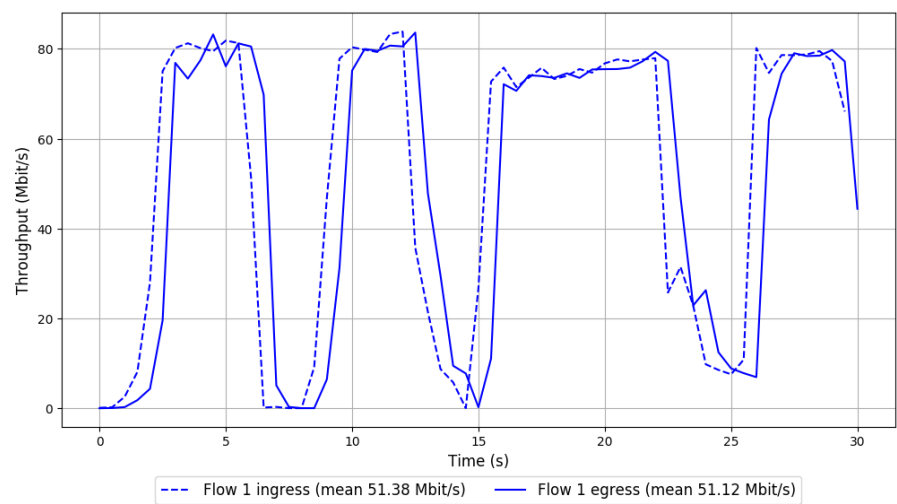
-- Flow 1:

Average throughput: 51.12 Mbit/s

95th percentile per-packet one-way delay: 135.741 ms

Loss rate: 1.41%

Run 4: Report of QUIC Cubic — Data Link

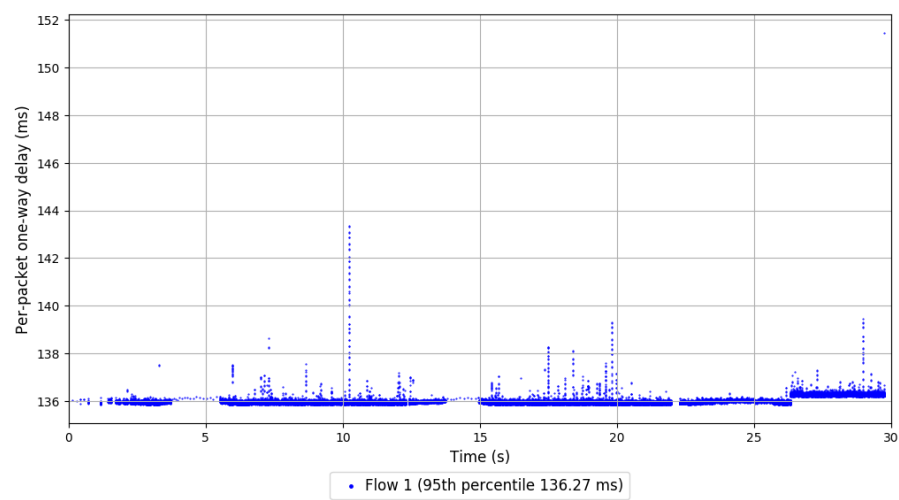
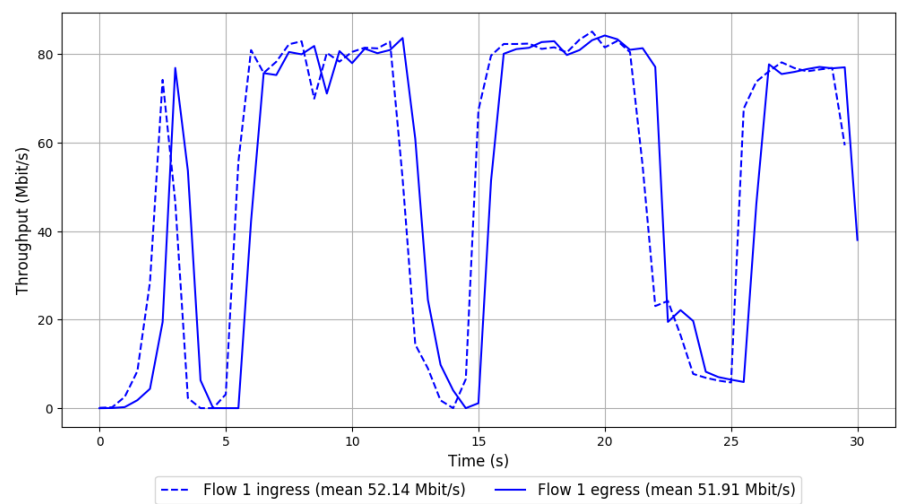


Run 5: Statistics of QUIC Cubic

Start at: 2018-07-01 00:03:53
End at: 2018-07-01 00:04:23
Local clock offset: 0.14 ms
Remote clock offset: -0.267 ms

Below is generated by plot.py at 2018-07-01 03:06:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 51.91 Mbit/s
95th percentile per-packet one-way delay: 136.270 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 51.91 Mbit/s
95th percentile per-packet one-way delay: 136.270 ms
Loss rate: 1.35%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-01 00:26:00

End at: 2018-07-01 00:26:30

Local clock offset: 0.32 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2018-07-01 03:06:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.29 Mbit/s

95th percentile per-packet one-way delay: 135.084 ms

Loss rate: 1.44%

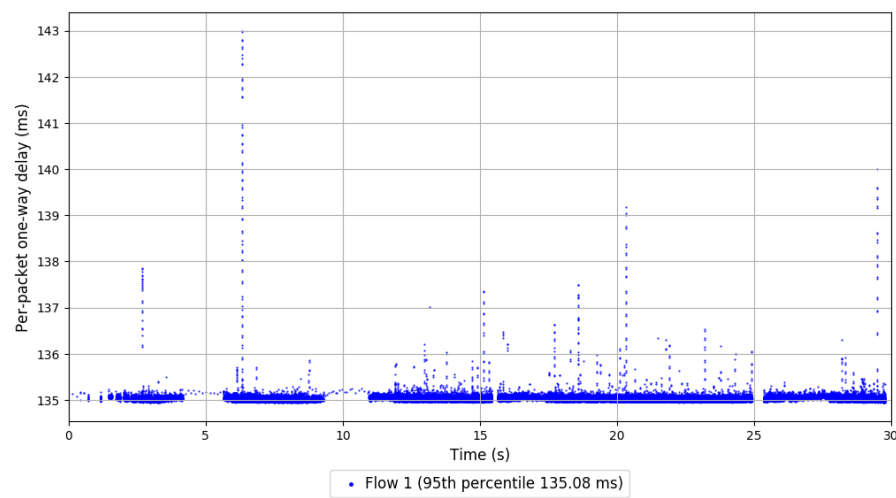
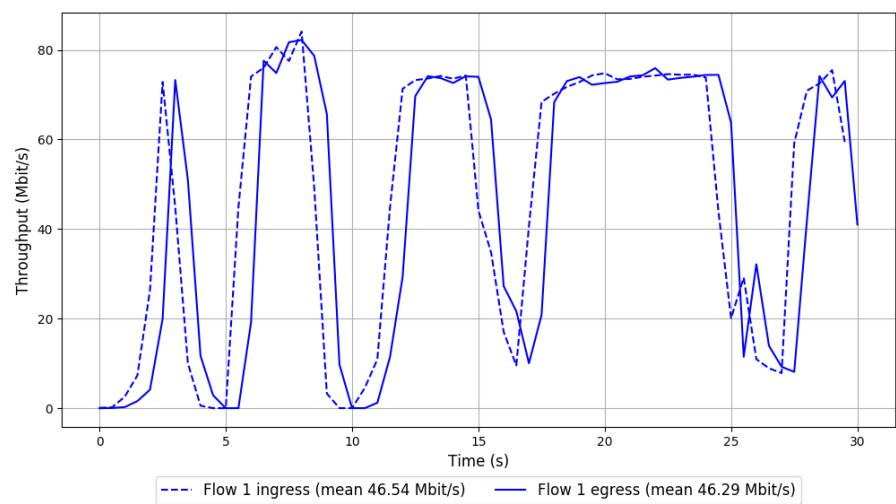
-- Flow 1:

Average throughput: 46.29 Mbit/s

95th percentile per-packet one-way delay: 135.084 ms

Loss rate: 1.44%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-01 00:47:58

End at: 2018-07-01 00:48:28

Local clock offset: 0.358 ms

Remote clock offset: 0.097 ms

Below is generated by plot.py at 2018-07-01 03:06:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.23 Mbit/s

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

Loss rate: 1.13%

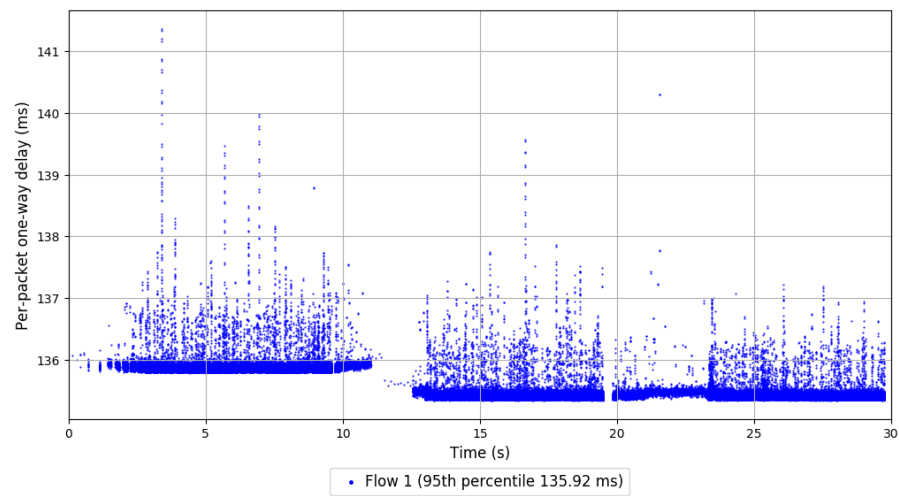
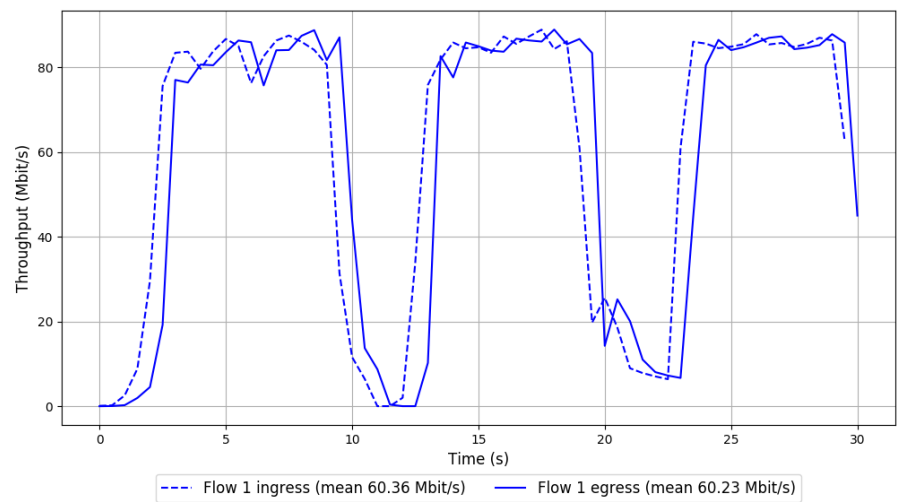
-- Flow 1:

Average throughput: 60.23 Mbit/s

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

Loss rate: 1.13%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-01 01:10:10

End at: 2018-07-01 01:10:40

Local clock offset: 0.551 ms

Remote clock offset: 0.03 ms

Below is generated by plot.py at 2018-07-01 03:06:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.80 Mbit/s

95th percentile per-packet one-way delay: 136.812 ms

Loss rate: 1.20%

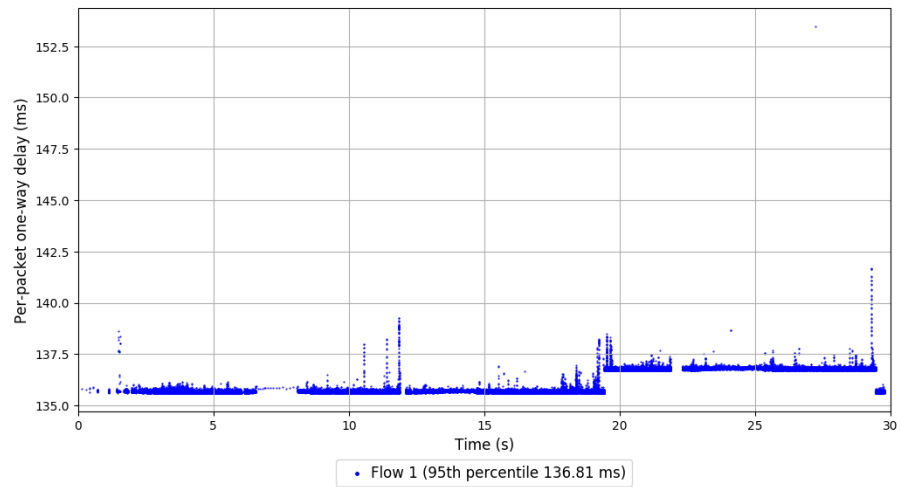
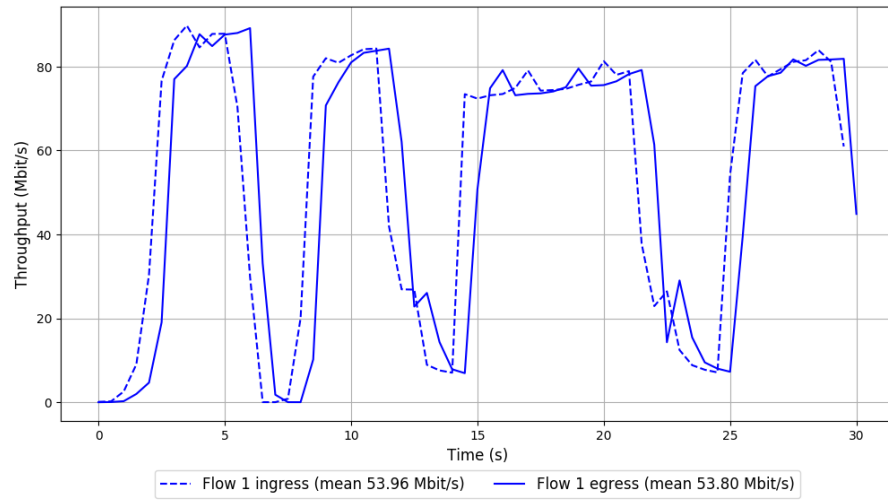
-- Flow 1:

Average throughput: 53.80 Mbit/s

95th percentile per-packet one-way delay: 136.812 ms

Loss rate: 1.20%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-01 01:32:30

End at: 2018-07-01 01:33:00

Local clock offset: 0.173 ms

Remote clock offset: -0.307 ms

Below is generated by plot.py at 2018-07-01 03:06:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.66 Mbit/s

95th percentile per-packet one-way delay: 136.481 ms

Loss rate: 1.39%

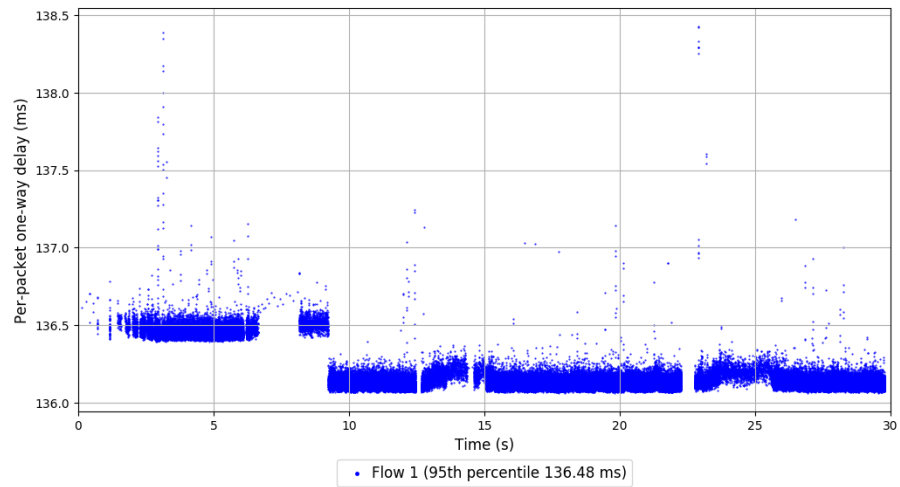
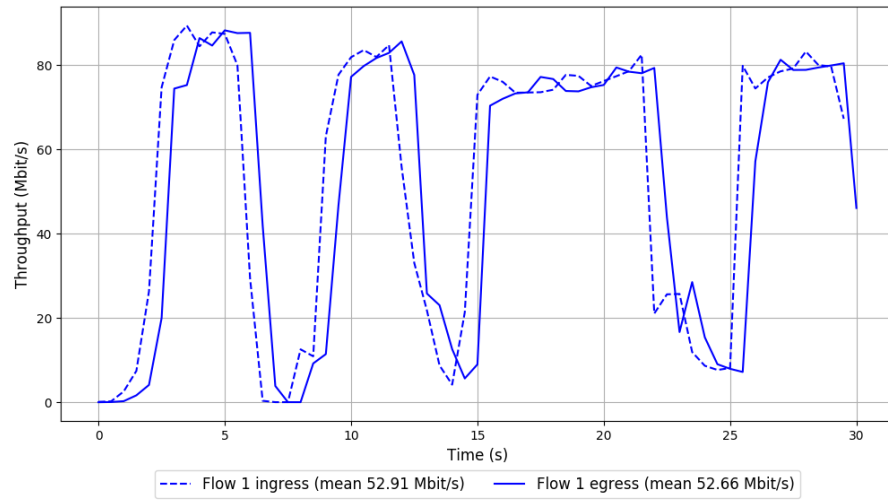
-- Flow 1:

Average throughput: 52.66 Mbit/s

95th percentile per-packet one-way delay: 136.481 ms

Loss rate: 1.39%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-01 01:54:36

End at: 2018-07-01 01:55:06

Local clock offset: 0.419 ms

Remote clock offset: 0.072 ms

Below is generated by plot.py at 2018-07-01 03:06:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.03 Mbit/s

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

Loss rate: 1.52%

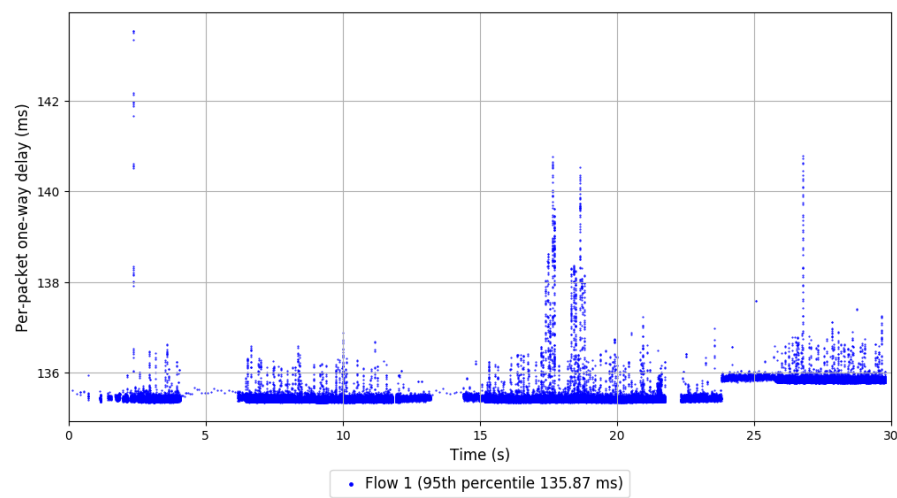
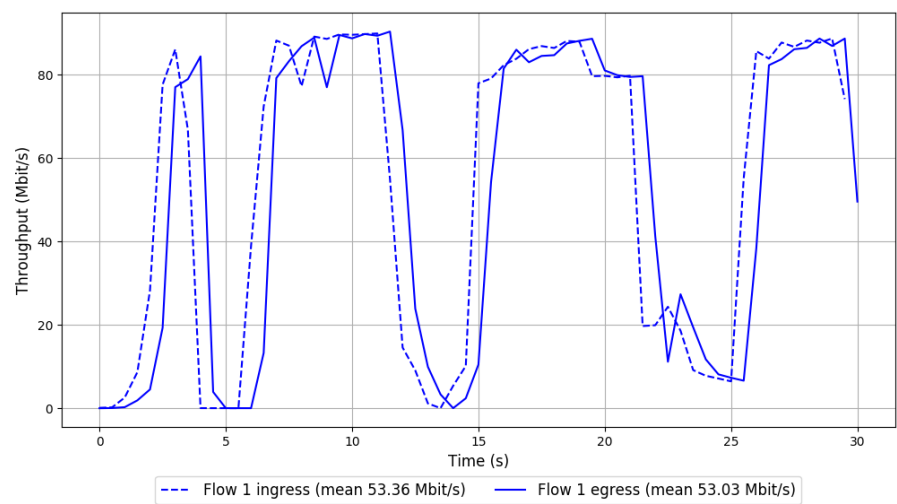
-- Flow 1:

Average throughput: 53.03 Mbit/s

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

Loss rate: 1.52%

Run 10: Report of QUIC Cubic — Data Link

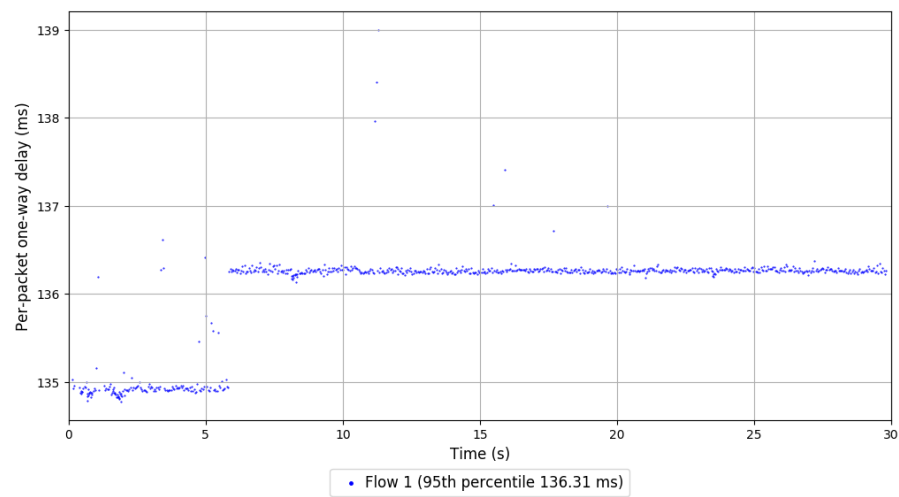
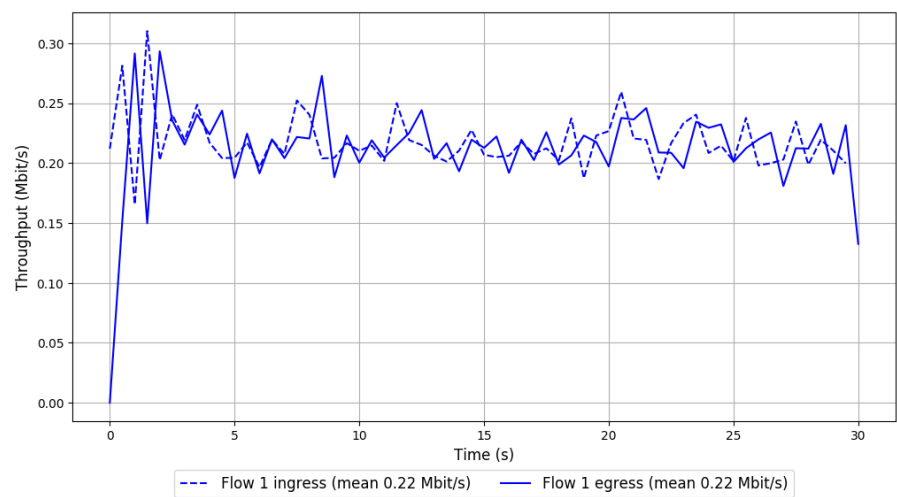


```
Run 1: Statistics of SCReAM

Start at: 2018-06-30 22:37:44
End at: 2018-06-30 22:38:14
Local clock offset: -0.147 ms
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2018-07-01 03:06:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.309 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.309 ms
Loss rate: 0.89%
```

Run 1: Report of SReAM — Data Link

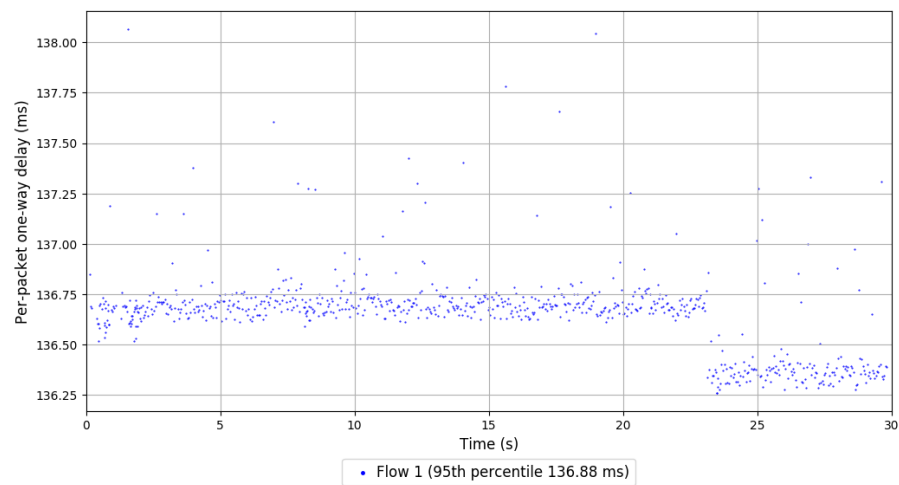
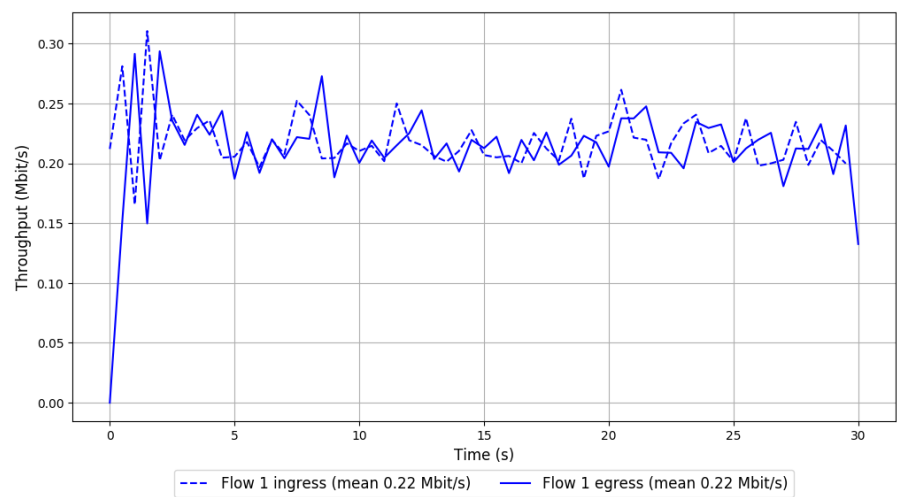


Run 2: Statistics of SCReAM

Start at: 2018-06-30 22:59:27
End at: 2018-06-30 22:59:57
Local clock offset: -0.059 ms
Remote clock offset: -0.396 ms

Below is generated by plot.py at 2018-07-01 03:06:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.876 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.876 ms
Loss rate: 0.89%

Run 2: Report of SReAM — Data Link

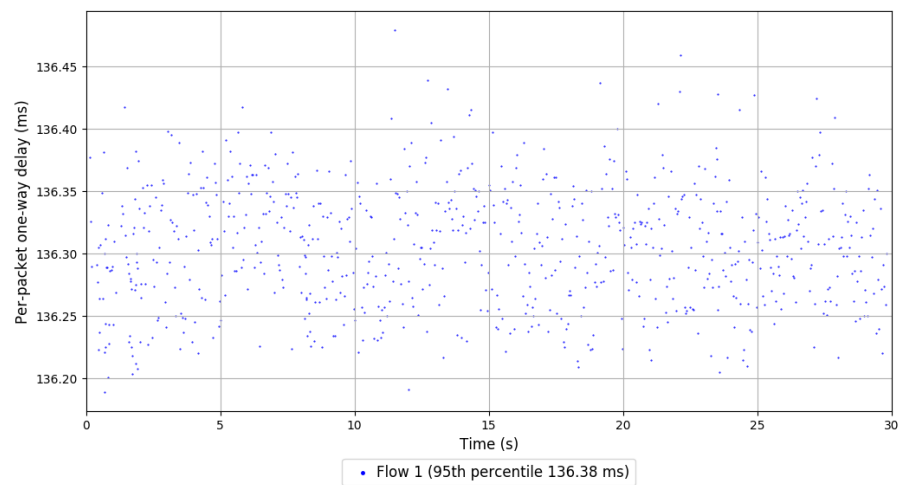
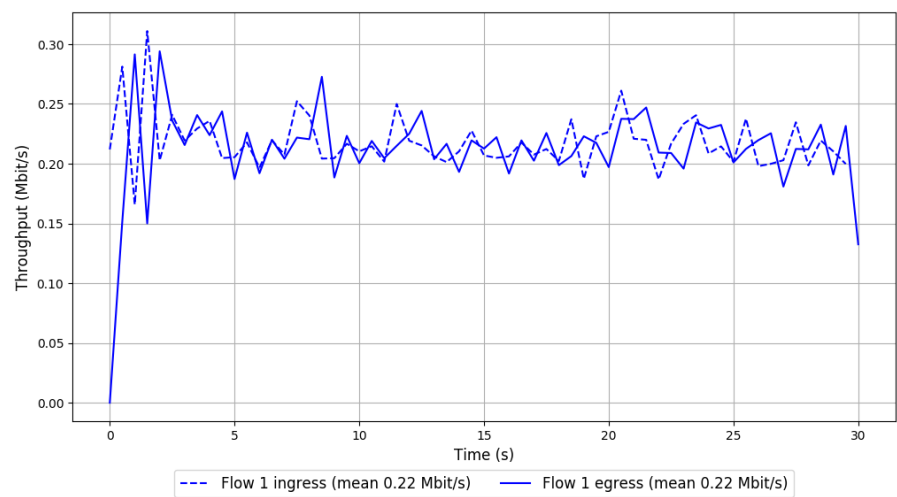


Run 3: Statistics of SCReAM

Start at: 2018-06-30 23:21:38
End at: 2018-06-30 23:22:08
Local clock offset: -0.1 ms
Remote clock offset: -0.418 ms

Below is generated by plot.py at 2018-07-01 03:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.381 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.381 ms
Loss rate: 0.89%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-06-30 23:43:17

End at: 2018-06-30 23:43:47

Local clock offset: 0.197 ms

Remote clock offset: 0.118 ms

Below is generated by plot.py at 2018-07-01 03:06:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.292 ms

Loss rate: 0.89%

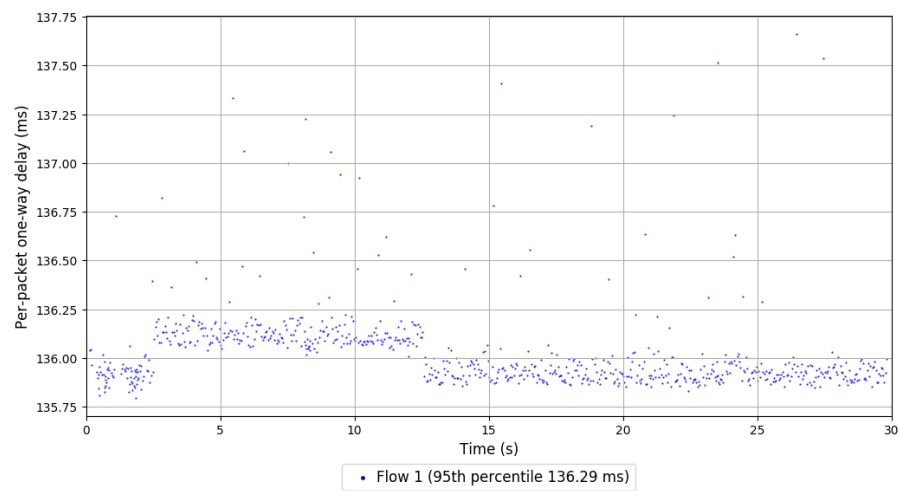
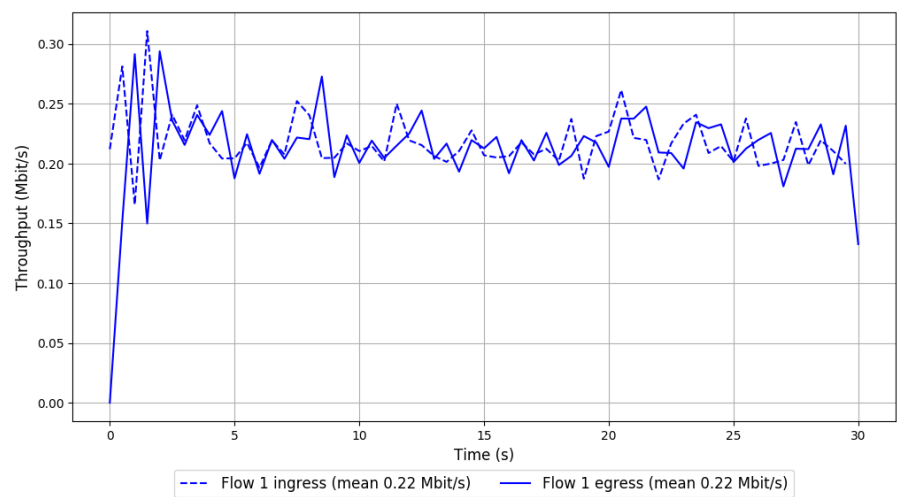
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.292 ms

Loss rate: 0.89%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-07-01 00:05:06

End at: 2018-07-01 00:05:36

Local clock offset: 0.139 ms

Remote clock offset: -0.27 ms

Below is generated by plot.py at 2018-07-01 03:06:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.979 ms

Loss rate: 0.89%

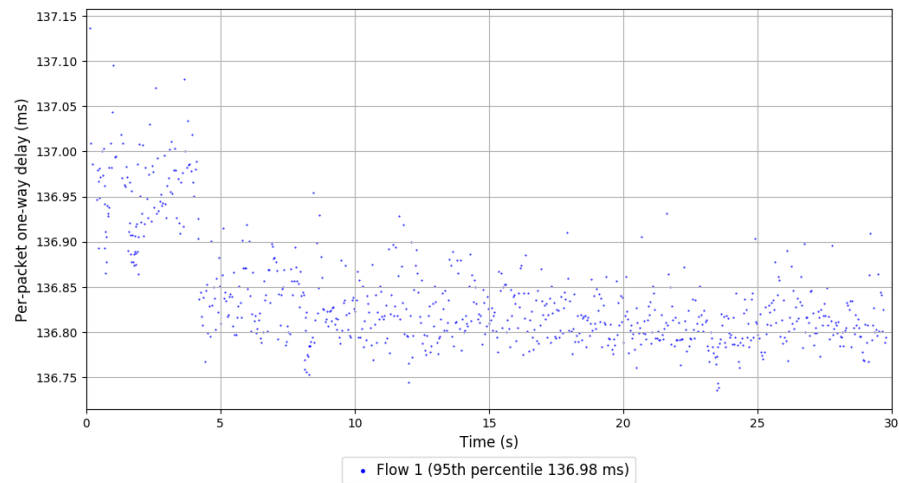
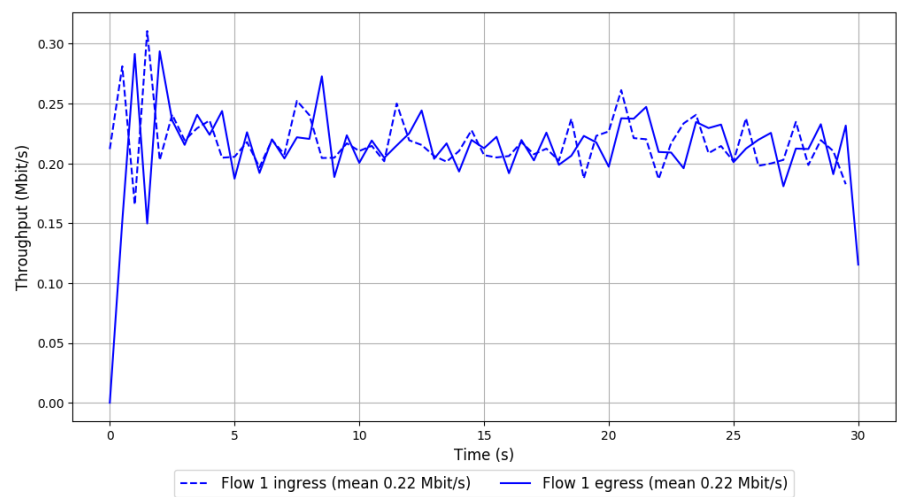
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.979 ms

Loss rate: 0.89%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-07-01 00:27:12

End at: 2018-07-01 00:27:42

Local clock offset: 0.153 ms

Remote clock offset: 0.088 ms

Below is generated by plot.py at 2018-07-01 03:06:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.312 ms

Loss rate: 1.02%

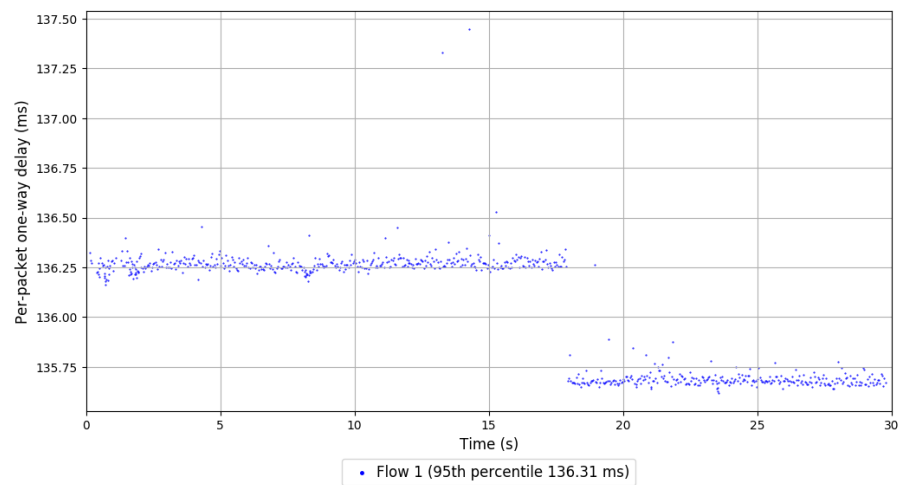
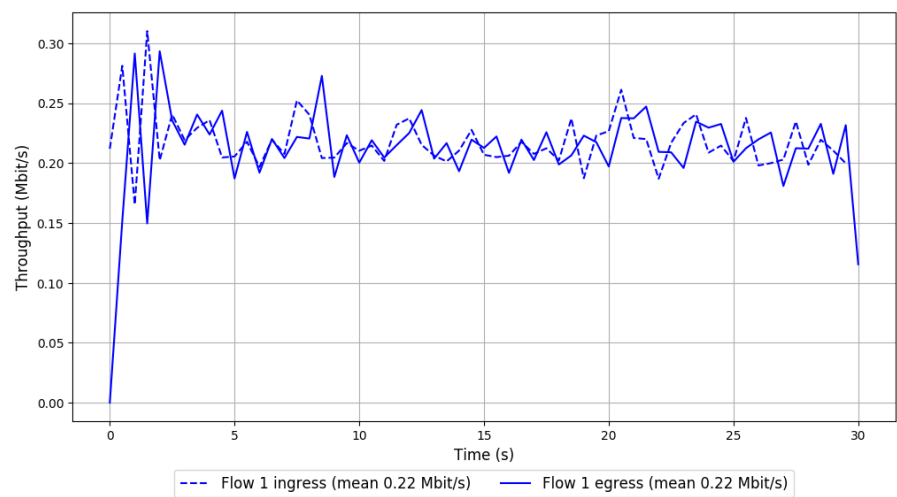
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.312 ms

Loss rate: 1.02%

Run 6: Report of SReAM — Data Link

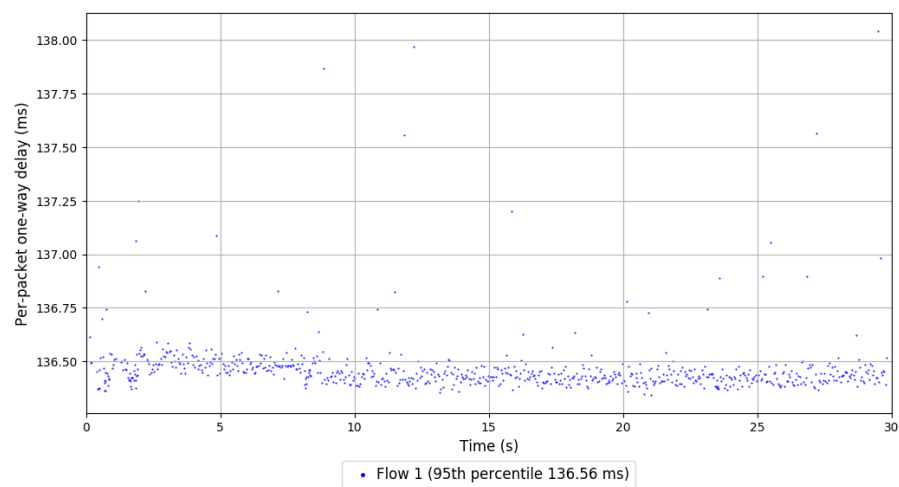
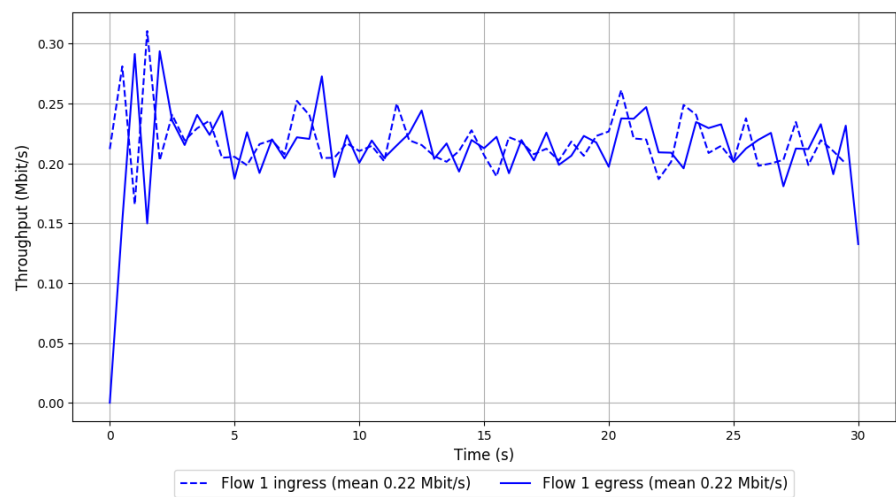


Run 7: Statistics of SCReAM

Start at: 2018-07-01 00:49:11
End at: 2018-07-01 00:49:41
Local clock offset: 0.34 ms
Remote clock offset: -0.306 ms

Below is generated by plot.py at 2018-07-01 03:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.557 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.557 ms
Loss rate: 0.89%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-07-01 01:11:22

End at: 2018-07-01 01:11:53

Local clock offset: 0.184 ms

Remote clock offset: 0.053 ms

Below is generated by plot.py at 2018-07-01 03:06:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.223 ms

Loss rate: 0.89%

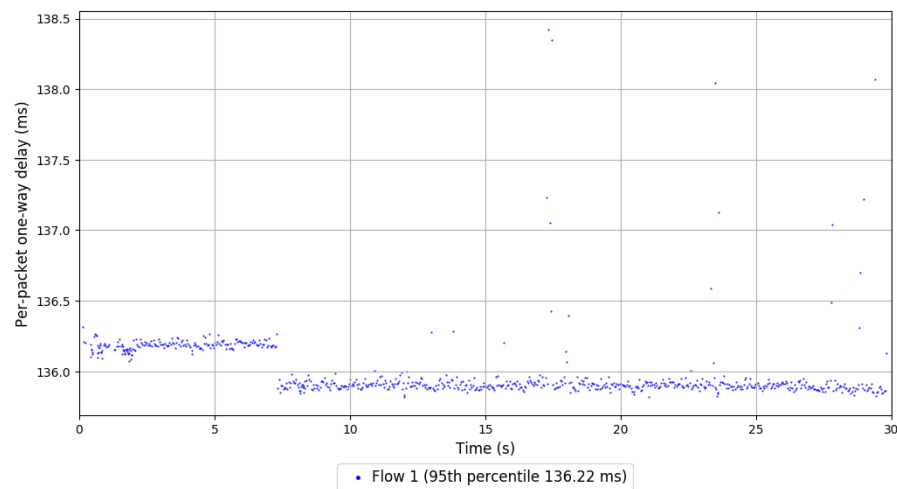
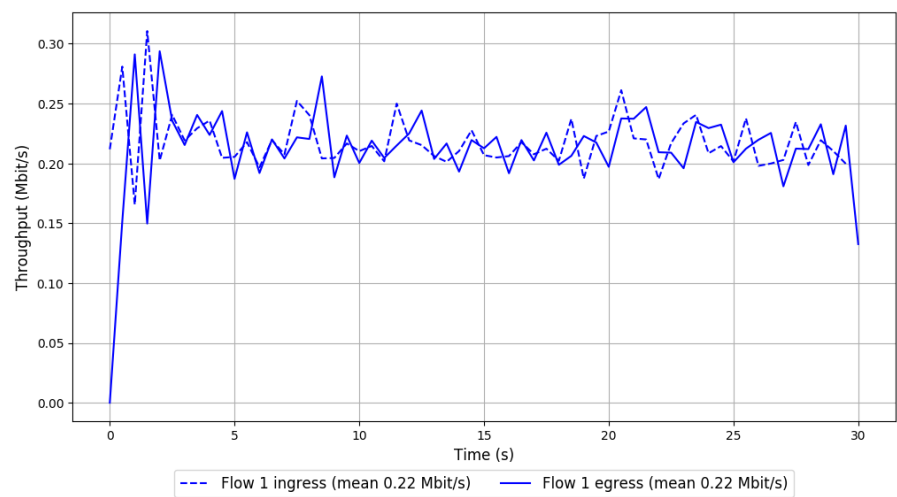
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.223 ms

Loss rate: 0.89%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-07-01 01:33:43

End at: 2018-07-01 01:34:13

Local clock offset: 0.489 ms

Remote clock offset: 0.076 ms

Below is generated by plot.py at 2018-07-01 03:06:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.322 ms

Loss rate: 0.89%

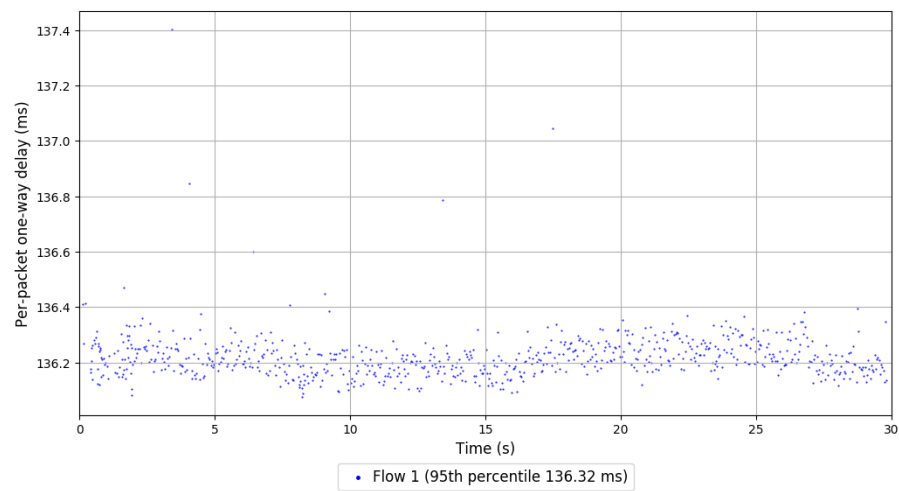
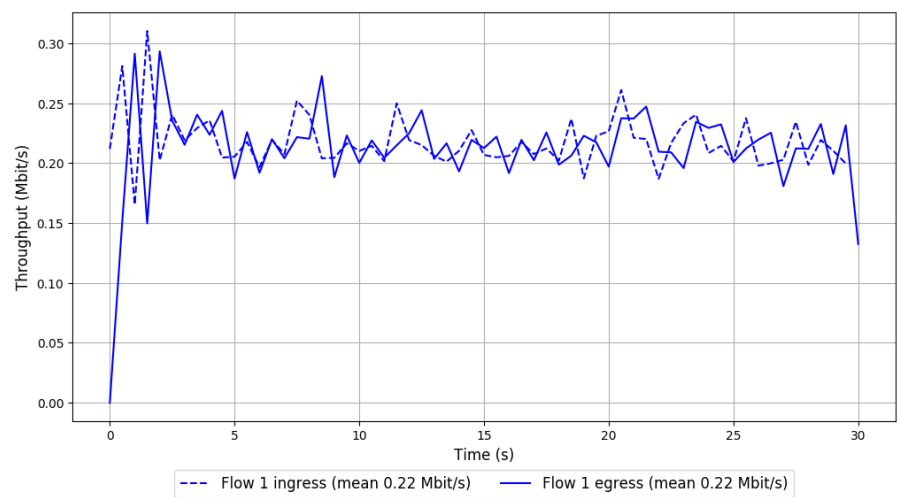
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.322 ms

Loss rate: 0.89%

Run 9: Report of SReAM — Data Link

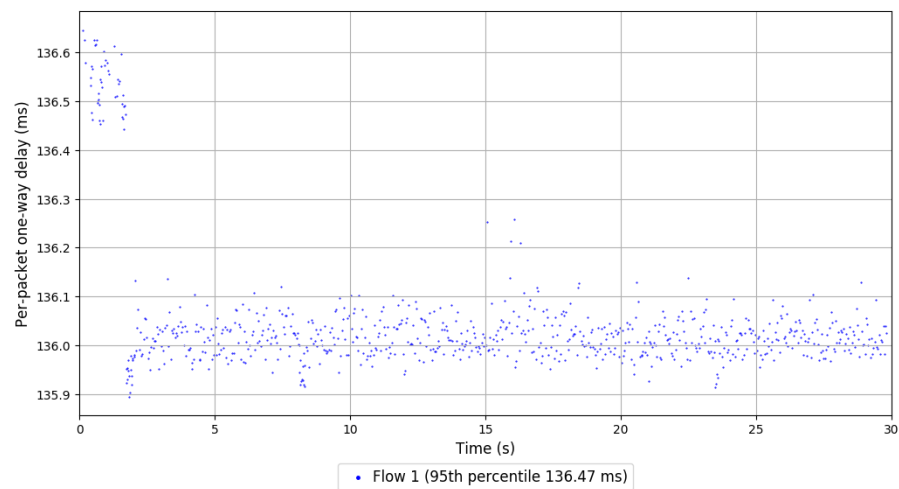
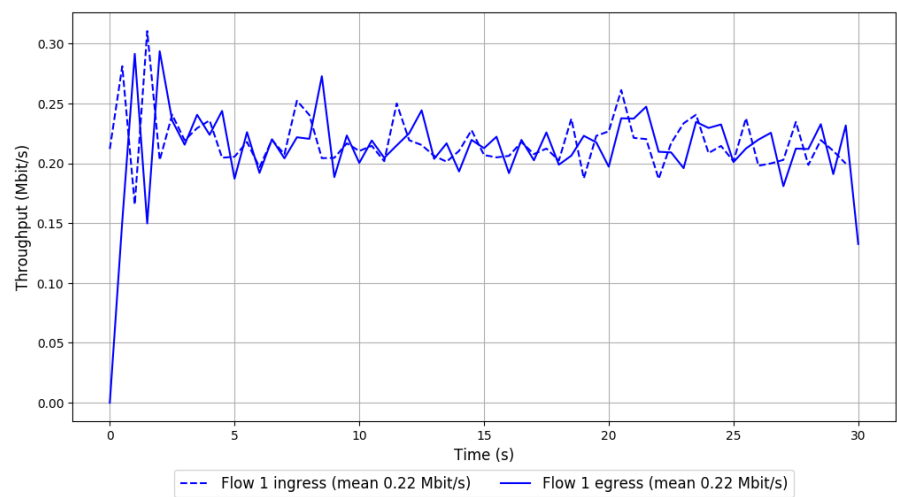


Run 10: Statistics of SCReAM

Start at: 2018-07-01 01:55:48
End at: 2018-07-01 01:56:18
Local clock offset: 0.219 ms
Remote clock offset: -0.252 ms

Below is generated by plot.py at 2018-07-01 03:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.473 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.473 ms
Loss rate: 0.89%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-06-30 22:40:13

End at: 2018-06-30 22:40:43

Local clock offset: 0.024 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-07-01 03:06:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 136.103 ms

Loss rate: 1.18%

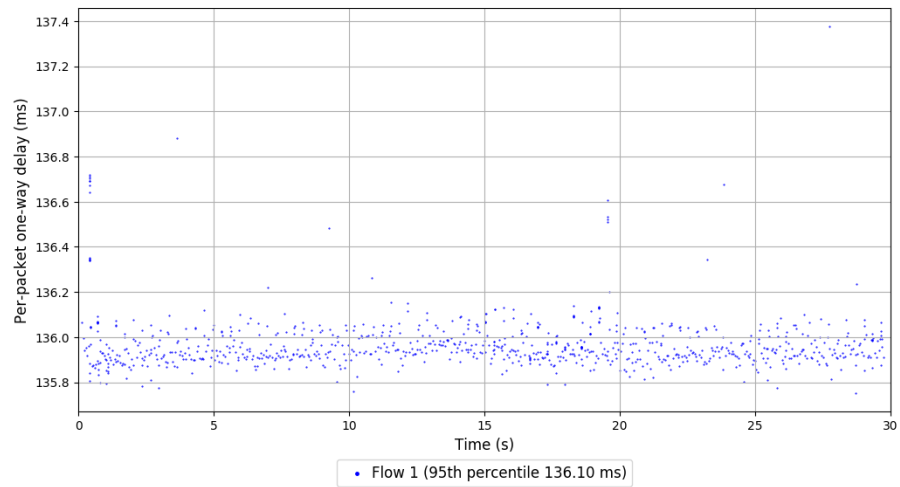
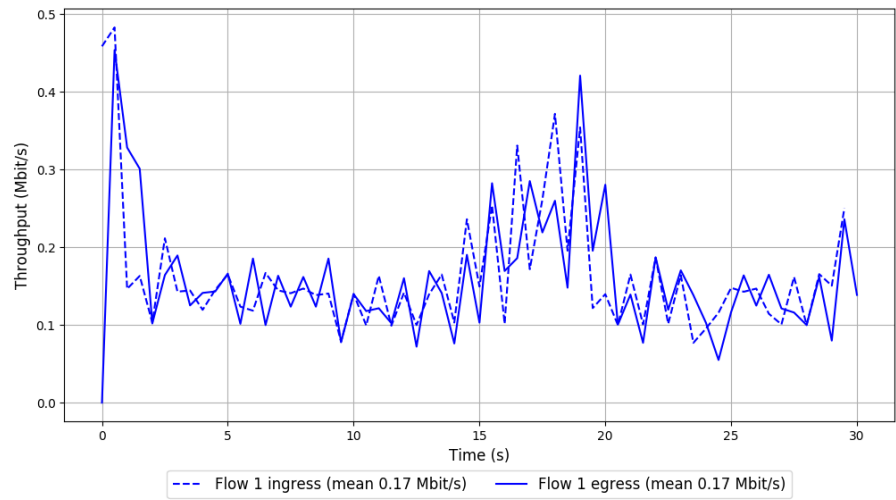
-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 136.103 ms

Loss rate: 1.18%

Run 1: Report of Sprout — Data Link

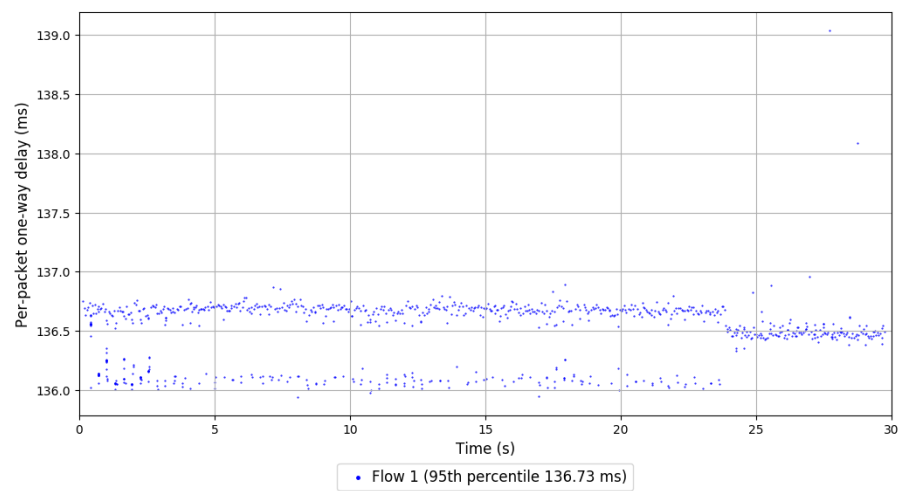
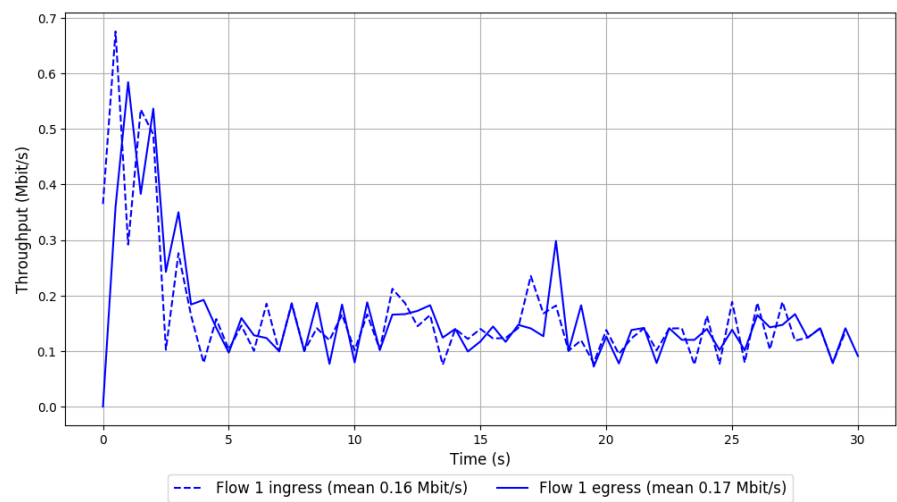


Run 2: Statistics of Sprout

Start at: 2018-06-30 23:01:56
End at: 2018-06-30 23:02:26
Local clock offset: -0.218 ms
Remote clock offset: -0.334 ms

Below is generated by plot.py at 2018-07-01 03:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 136.730 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 136.730 ms
Loss rate: 0.50%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-06-30 23:24:02

End at: 2018-06-30 23:24:32

Local clock offset: 0.203 ms

Remote clock offset: 0.304 ms

Below is generated by plot.py at 2018-07-01 03:06:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

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

Loss rate: 0.64%

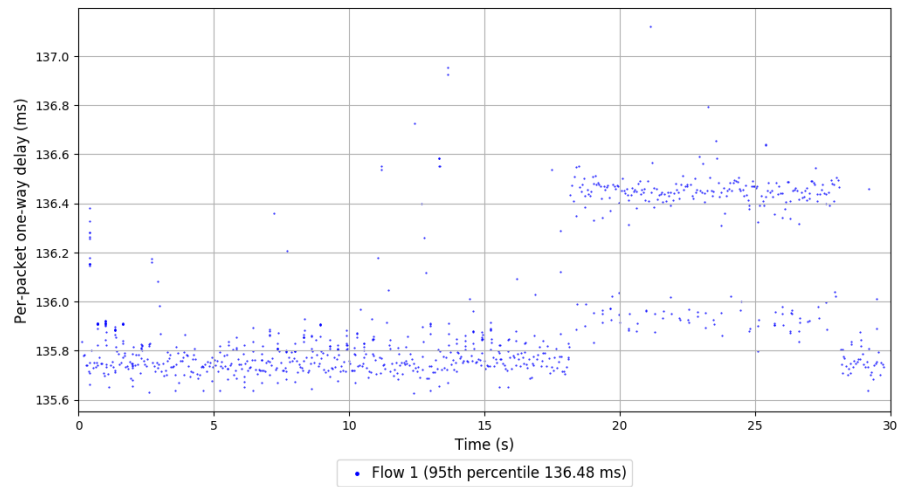
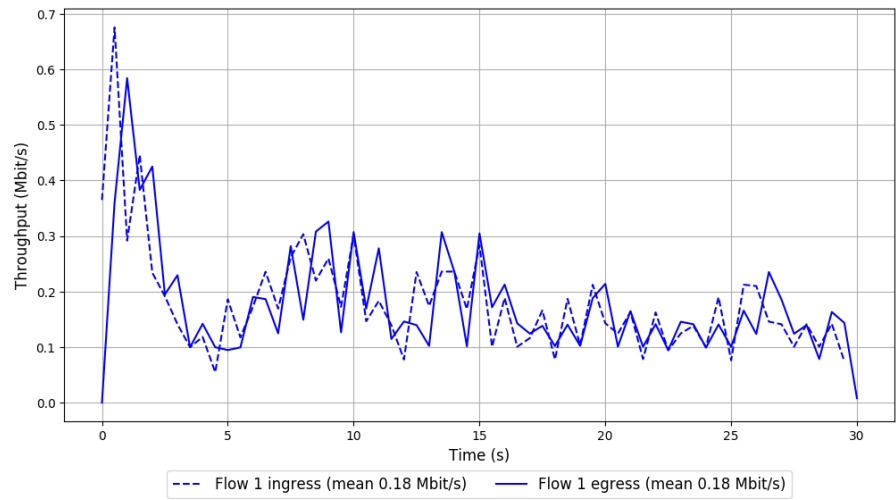
-- Flow 1:

Average throughput: 0.18 Mbit/s

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

Loss rate: 0.64%

Run 3: Report of Sprout — Data Link

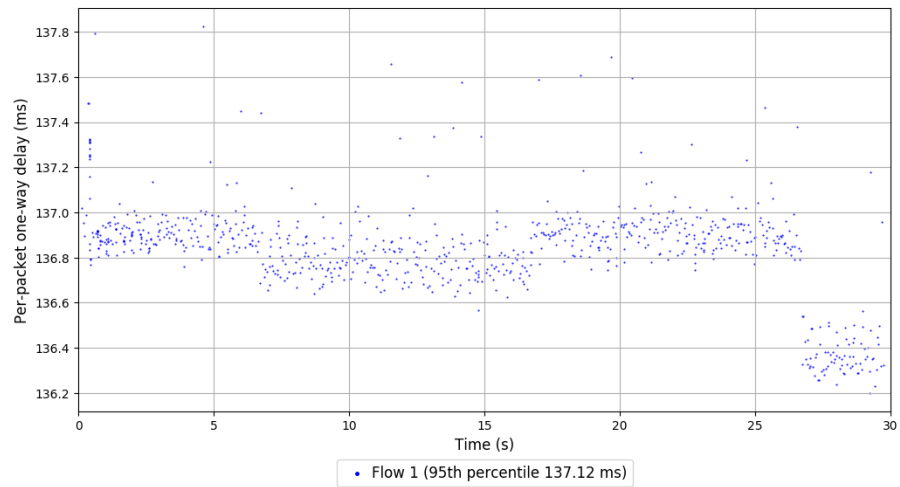
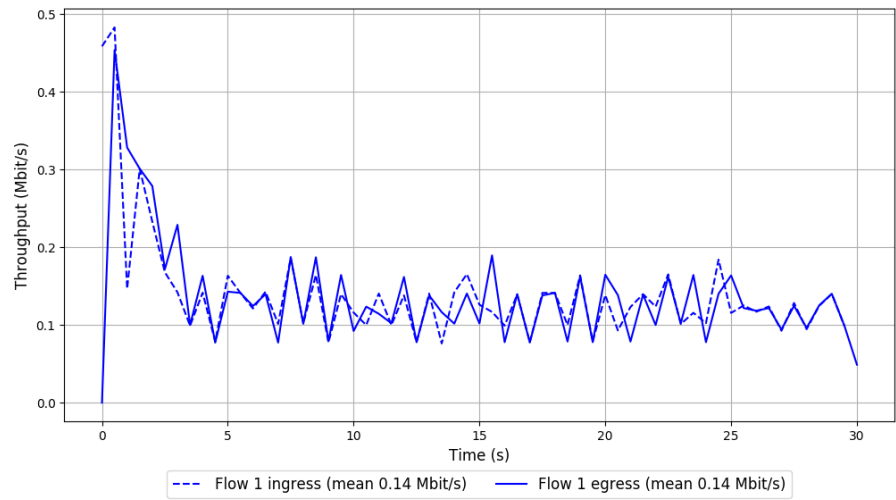


Run 4: Statistics of Sprout

Start at: 2018-06-30 23:45:43
End at: 2018-06-30 23:46:13
Local clock offset: 0.156 ms
Remote clock offset: -0.279 ms

Below is generated by plot.py at 2018-07-01 03:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 137.123 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 137.123 ms
Loss rate: 1.14%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-07-01 00:07:36

End at: 2018-07-01 00:08:06

Local clock offset: 0.135 ms

Remote clock offset: 0.119 ms

Below is generated by plot.py at 2018-07-01 03:06:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 136.364 ms

Loss rate: 0.71%

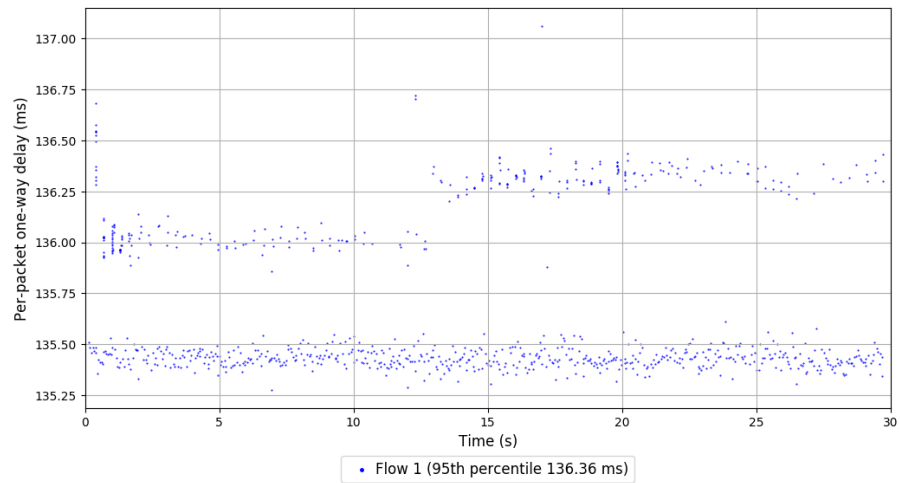
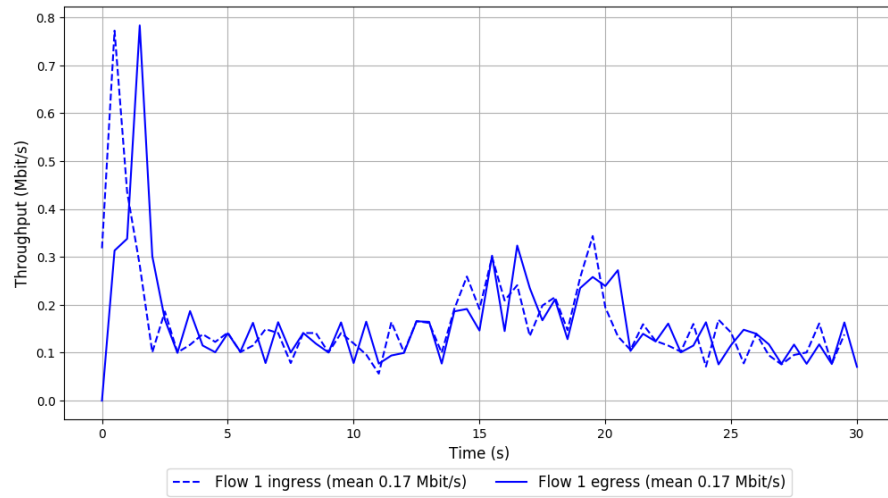
-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 136.364 ms

Loss rate: 0.71%

Run 5: Report of Sprout — Data Link

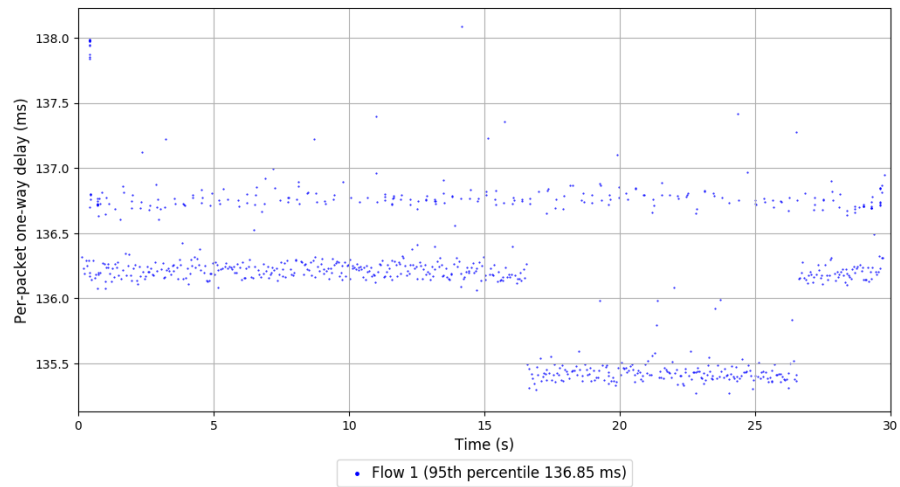
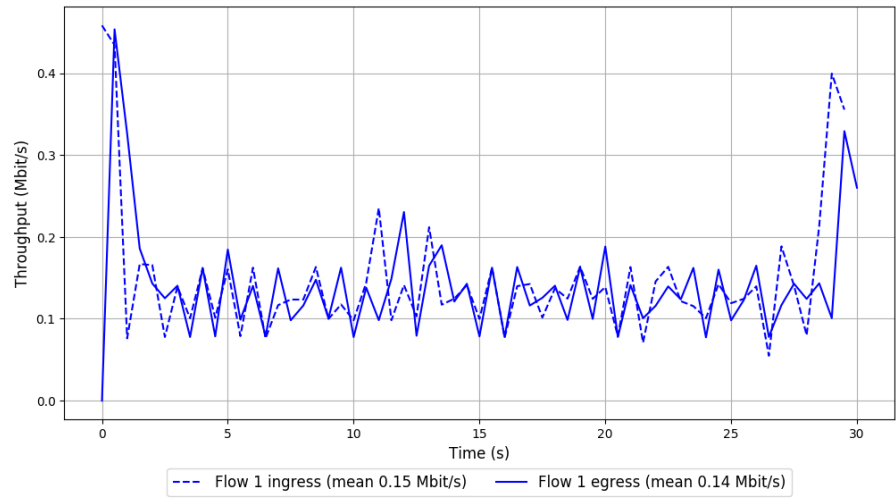


Run 6: Statistics of Sprout

Start at: 2018-07-01 00:29:43
End at: 2018-07-01 00:30:13
Local clock offset: 0.535 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2018-07-01 03:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 136.851 ms
Loss rate: 3.18%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 136.851 ms
Loss rate: 3.18%

Run 6: Report of Sprout — Data Link

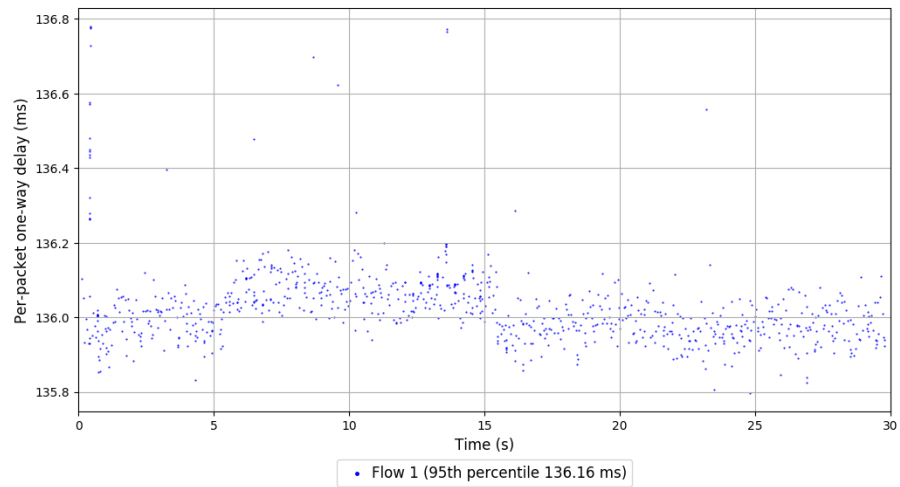
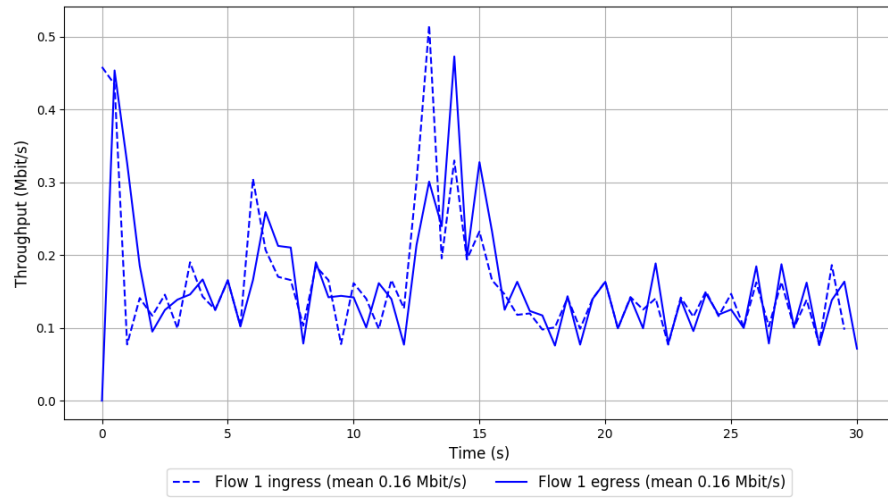


Run 7: Statistics of Sprout

Start at: 2018-07-01 00:51:34
End at: 2018-07-01 00:52:04
Local clock offset: 0.292 ms
Remote clock offset: 0.065 ms

Below is generated by plot.py at 2018-07-01 03:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.158 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.158 ms
Loss rate: 0.55%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-07-01 01:13:52

End at: 2018-07-01 01:14:22

Local clock offset: 0.39 ms

Remote clock offset: 0.061 ms

Below is generated by plot.py at 2018-07-01 03:06:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 136.711 ms

Loss rate: 1.03%

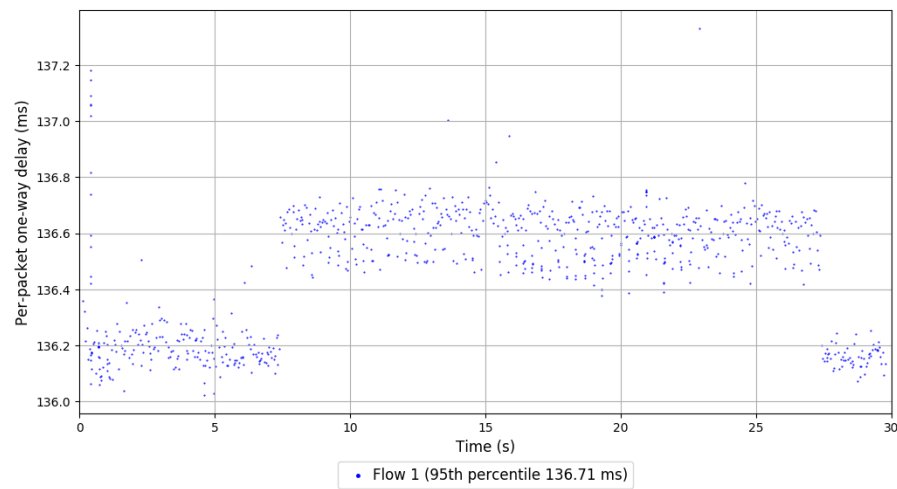
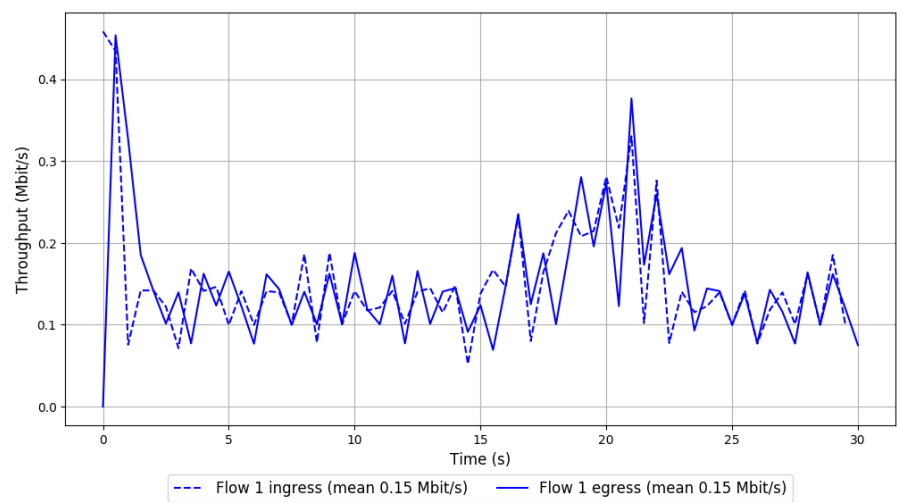
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 136.711 ms

Loss rate: 1.03%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-07-01 01:36:12

End at: 2018-07-01 01:36:42

Local clock offset: 0.554 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2018-07-01 03:06:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.17 Mbit/s

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

Loss rate: 0.54%

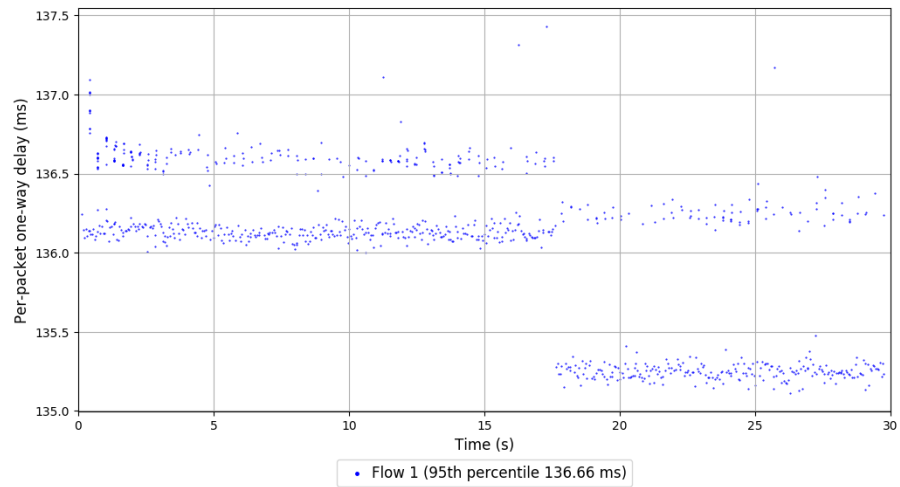
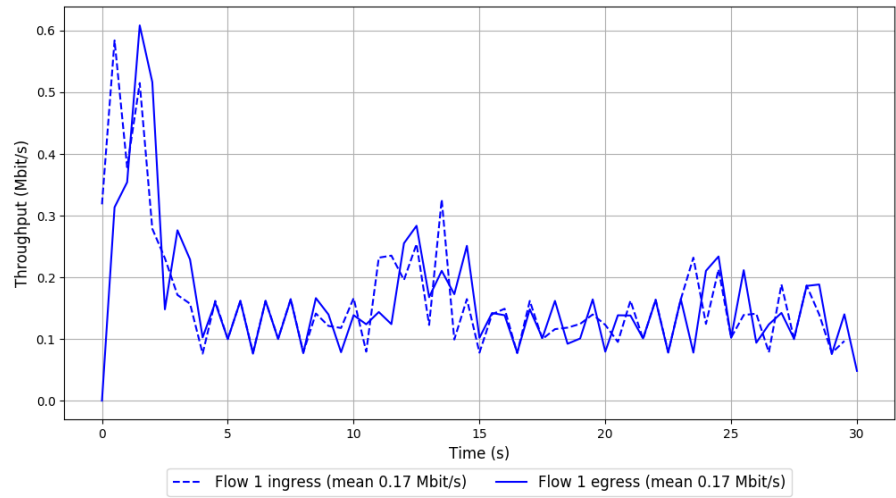
-- Flow 1:

Average throughput: 0.17 Mbit/s

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

Loss rate: 0.54%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-07-01 01:58:16

End at: 2018-07-01 01:58:46

Local clock offset: 0.353 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2018-07-01 03:06:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 136.499 ms

Loss rate: 1.02%

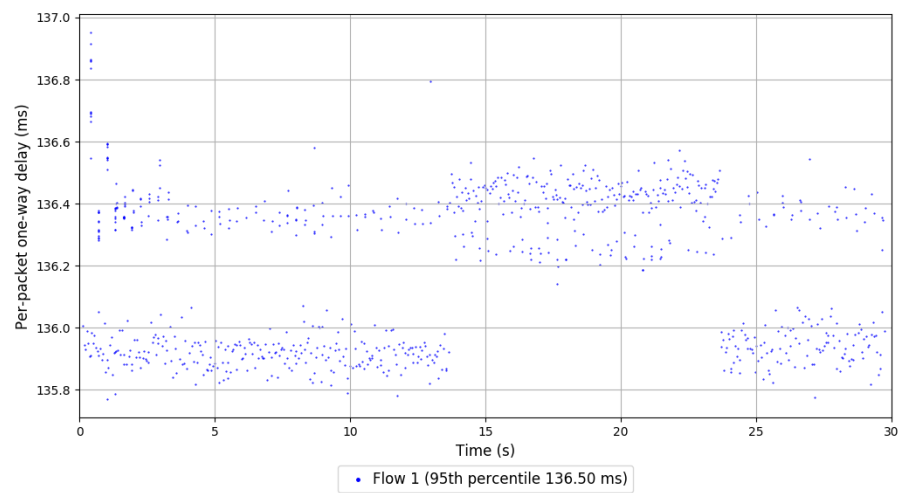
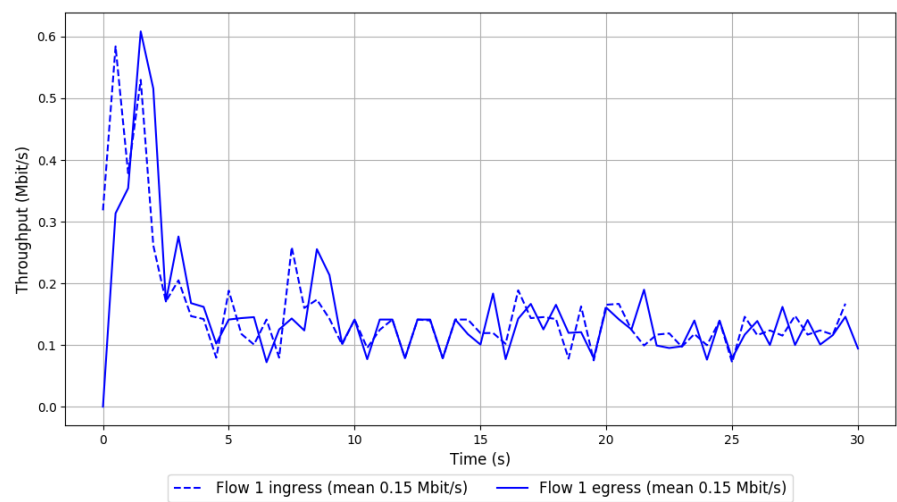
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 136.499 ms

Loss rate: 1.02%

Run 10: Report of Sprout — Data Link

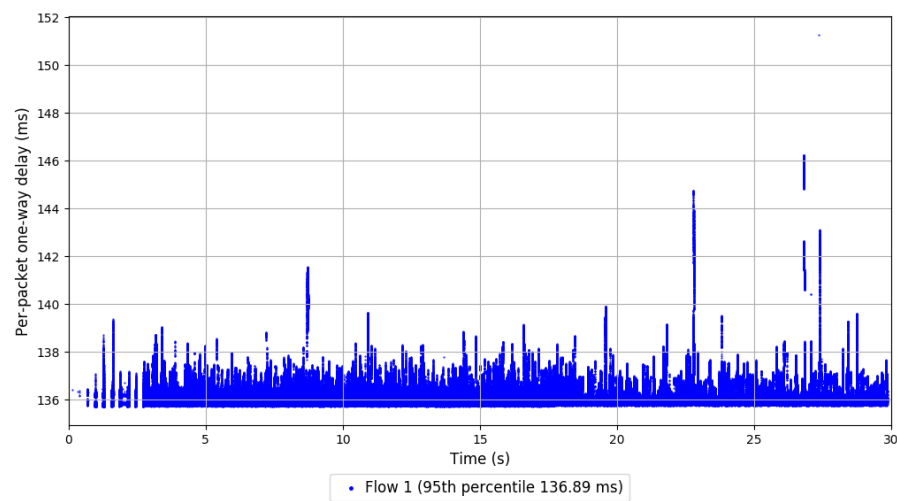
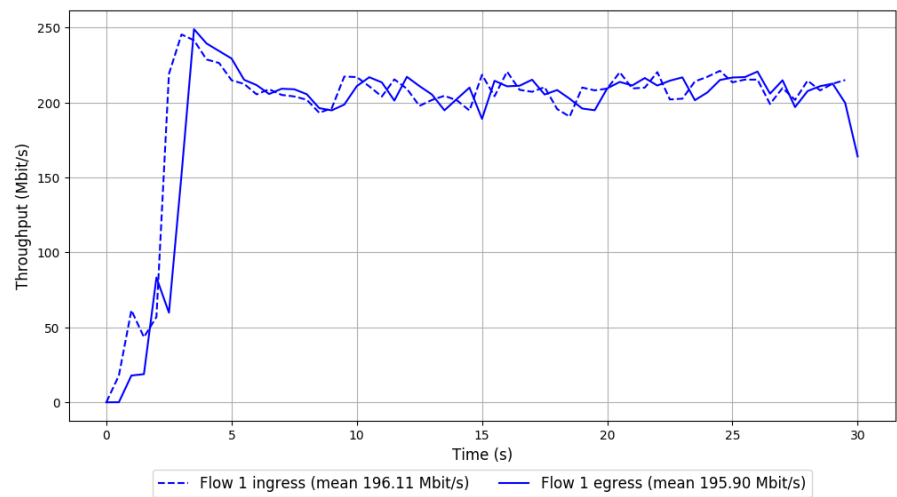


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-30 22:33:52
End at: 2018-06-30 22:34:22
Local clock offset: 0.036 ms
Remote clock offset: 0.043 ms

# Below is generated by plot.py at 2018-07-01 03:08:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 195.90 Mbit/s
95th percentile per-packet one-way delay: 136.893 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 195.90 Mbit/s
95th percentile per-packet one-way delay: 136.893 ms
Loss rate: 0.99%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-06-30 22:55:53

End at: 2018-06-30 22:56:23

Local clock offset: -0.092 ms

Remote clock offset: -0.057 ms

Below is generated by plot.py at 2018-07-01 03:08:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.27 Mbit/s

95th percentile per-packet one-way delay: 136.280 ms

Loss rate: 0.92%

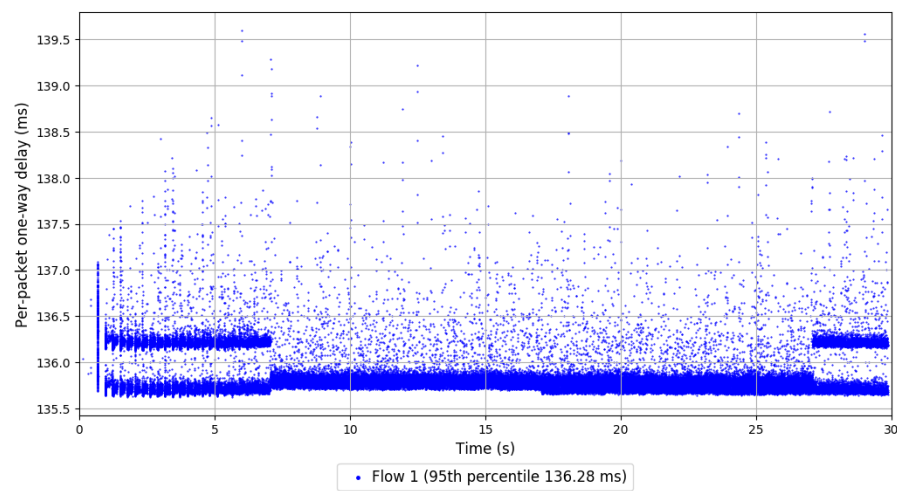
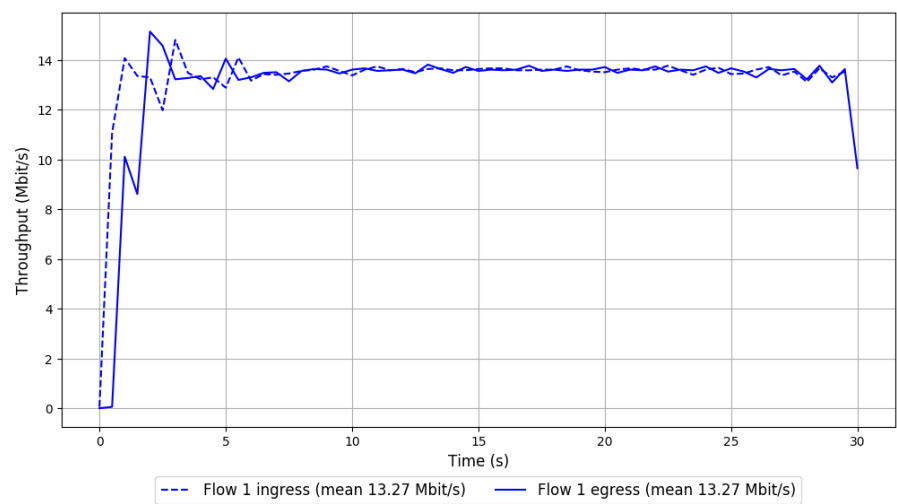
-- Flow 1:

Average throughput: 13.27 Mbit/s

95th percentile per-packet one-way delay: 136.280 ms

Loss rate: 0.92%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-06-30 23:17:48

End at: 2018-06-30 23:18:18

Local clock offset: 0.015 ms

Remote clock offset: 0.31 ms

Below is generated by plot.py at 2018-07-01 03:08:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.42 Mbit/s

95th percentile per-packet one-way delay: 137.452 ms

Loss rate: 1.20%

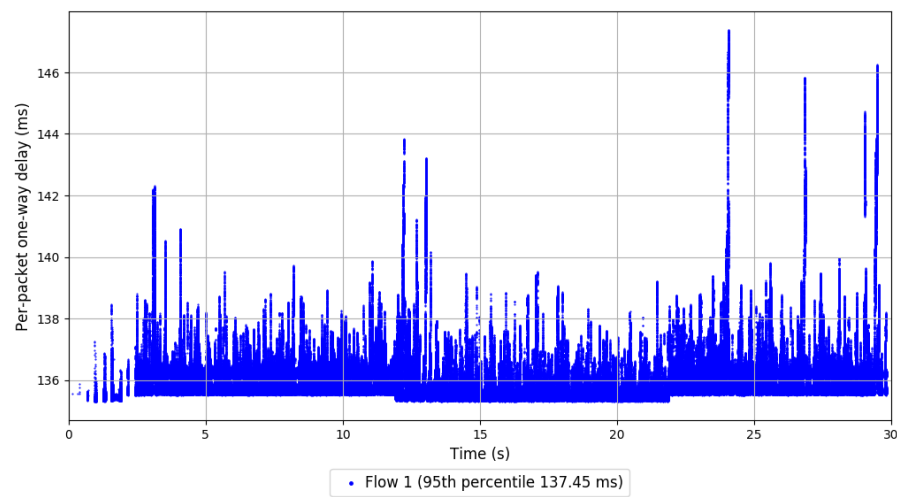
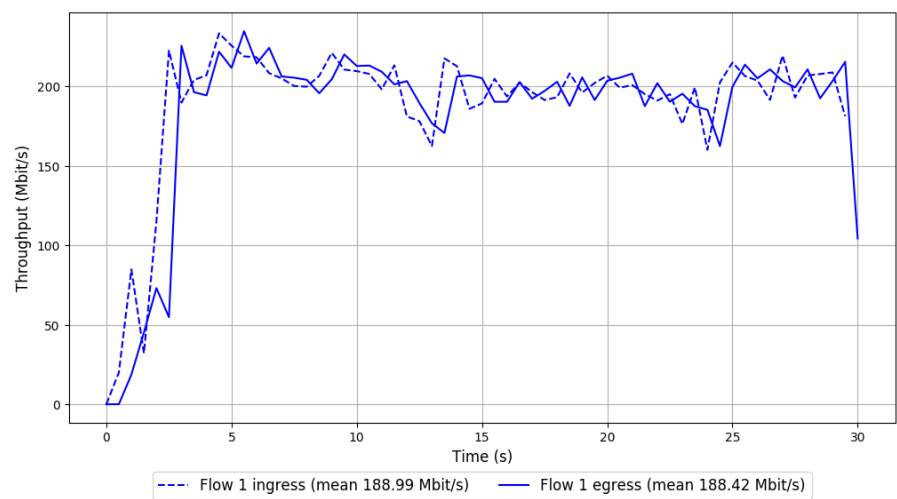
-- Flow 1:

Average throughput: 188.42 Mbit/s

95th percentile per-packet one-way delay: 137.452 ms

Loss rate: 1.20%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-06-30 23:39:44

End at: 2018-06-30 23:40:14

Local clock offset: 0.111 ms

Remote clock offset: 0.028 ms

Below is generated by plot.py at 2018-07-01 03:08:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.26 Mbit/s

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

Loss rate: 0.95%

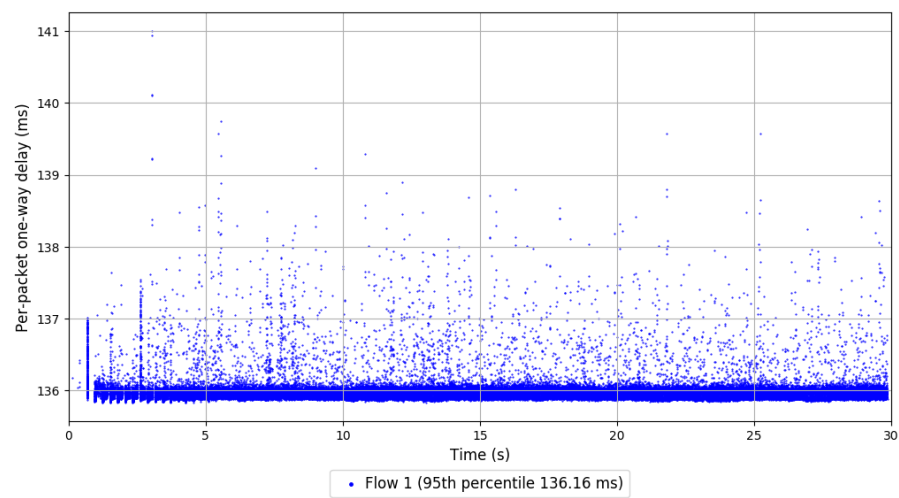
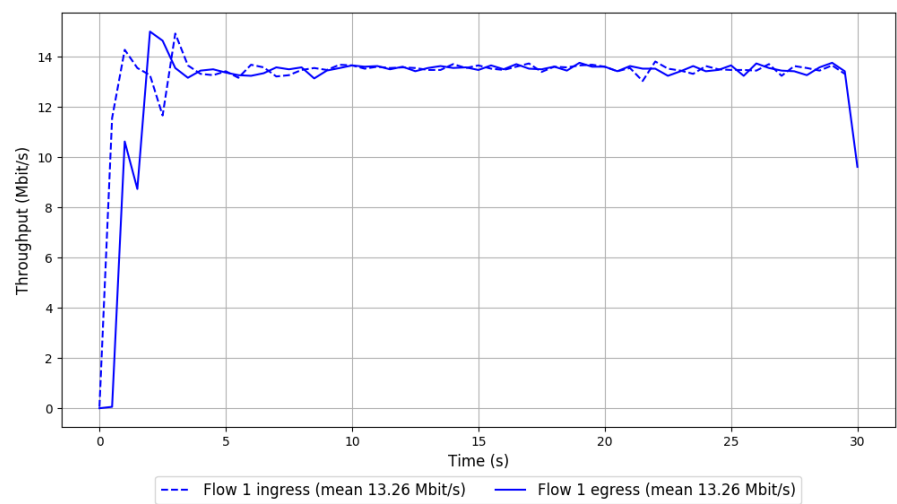
-- Flow 1:

Average throughput: 13.26 Mbit/s

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

Loss rate: 0.95%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-01 00:01:33

End at: 2018-07-01 00:02:03

Local clock offset: 0.173 ms

Remote clock offset: 0.093 ms

Below is generated by plot.py at 2018-07-01 03:08:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.34 Mbit/s

95th percentile per-packet one-way delay: 136.395 ms

Loss rate: 0.93%

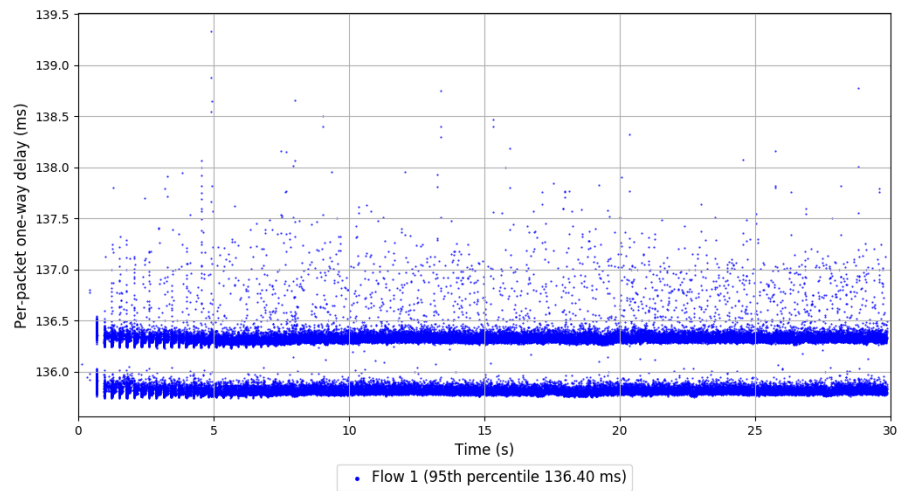
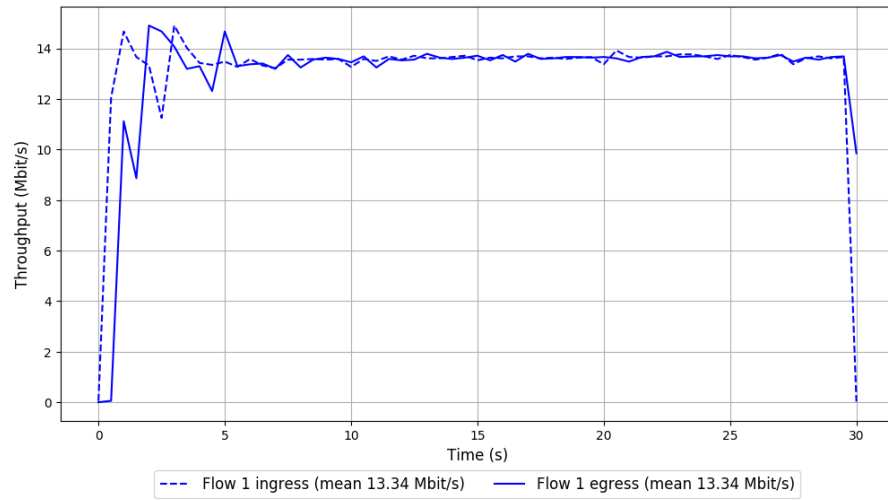
-- Flow 1:

Average throughput: 13.34 Mbit/s

95th percentile per-packet one-way delay: 136.395 ms

Loss rate: 0.93%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-01 00:23:35

End at: 2018-07-01 00:24:05

Local clock offset: 0.309 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-07-01 03:08:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.40 Mbit/s

95th percentile per-packet one-way delay: 136.459 ms

Loss rate: 0.94%

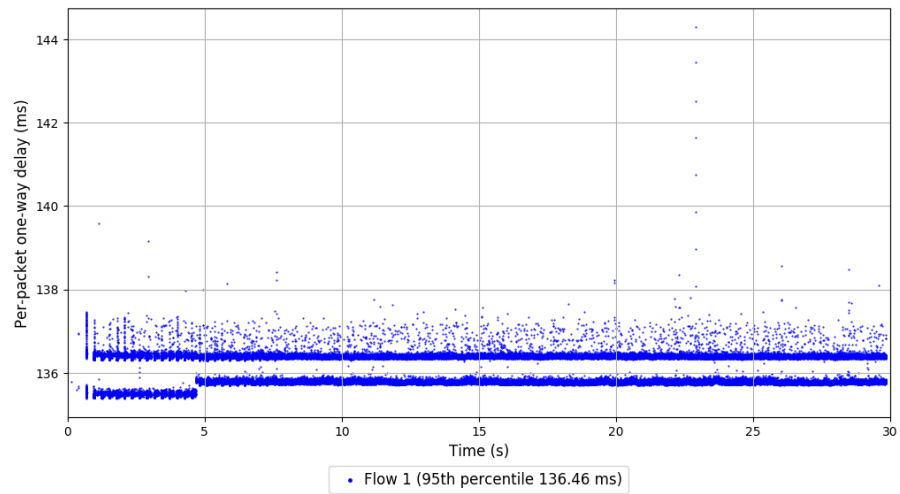
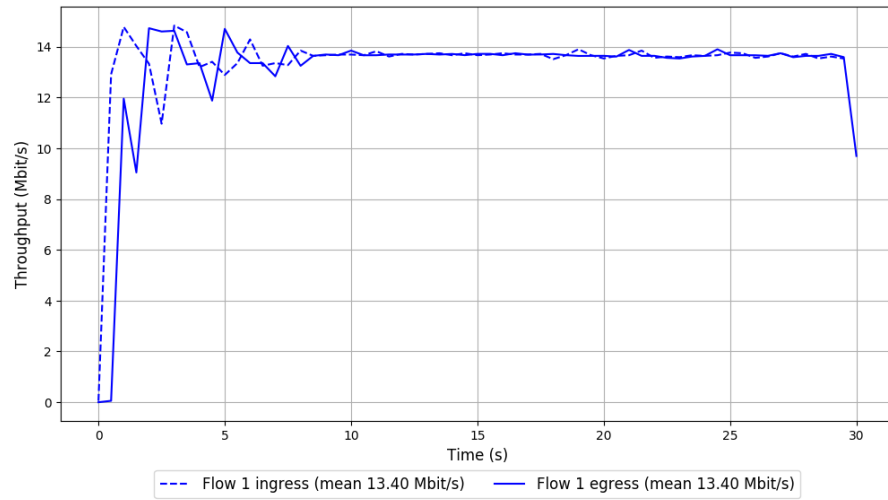
-- Flow 1:

Average throughput: 13.40 Mbit/s

95th percentile per-packet one-way delay: 136.459 ms

Loss rate: 0.94%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-01 00:45:36

End at: 2018-07-01 00:46:06

Local clock offset: 0.41 ms

Remote clock offset: -0.31 ms

Below is generated by plot.py at 2018-07-01 03:08:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.21 Mbit/s

95th percentile per-packet one-way delay: 136.506 ms

Loss rate: 0.95%

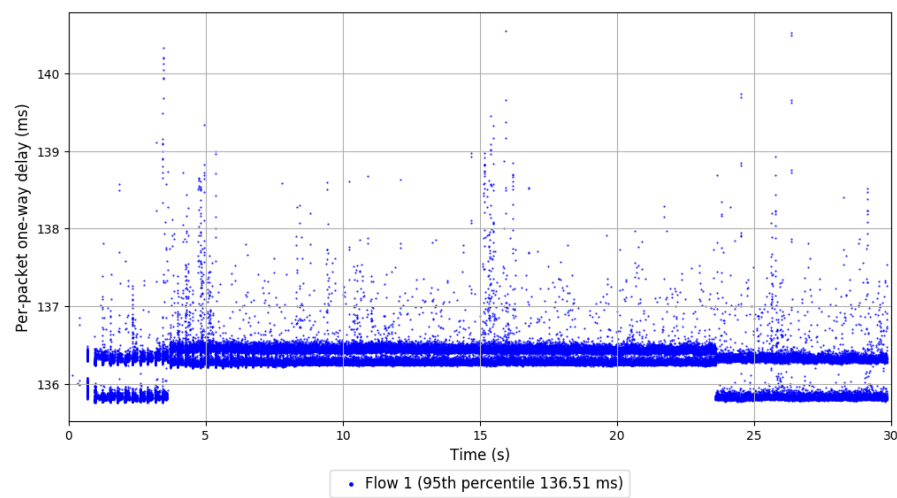
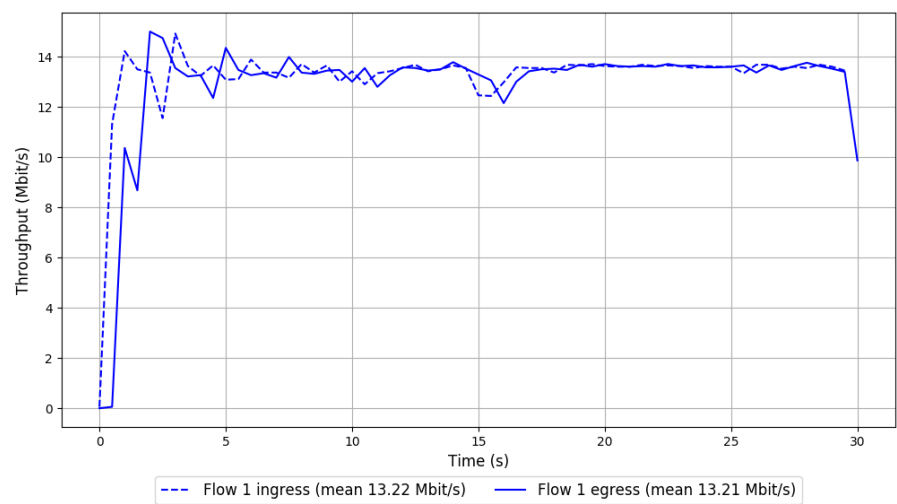
-- Flow 1:

Average throughput: 13.21 Mbit/s

95th percentile per-packet one-way delay: 136.506 ms

Loss rate: 0.95%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-01 01:07:31

End at: 2018-07-01 01:08:01

Local clock offset: 0.363 ms

Remote clock offset: 0.053 ms

Below is generated by plot.py at 2018-07-01 03:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.27 Mbit/s

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

Loss rate: 1.02%

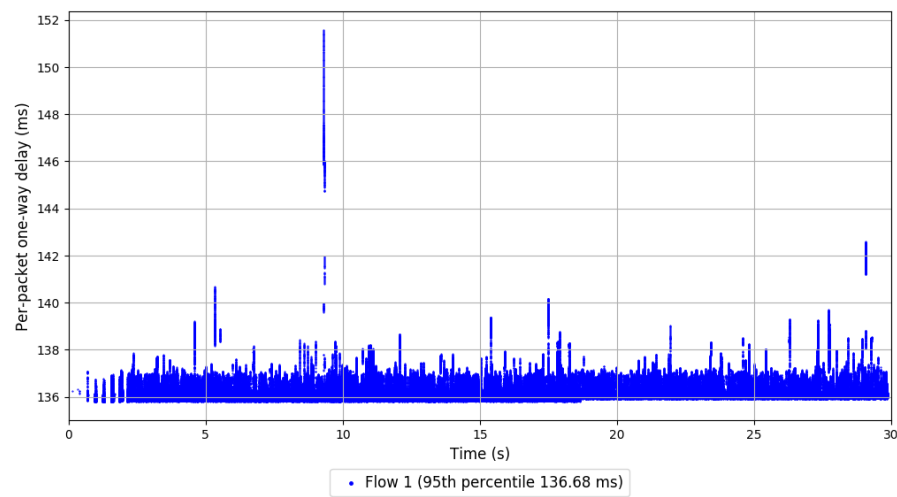
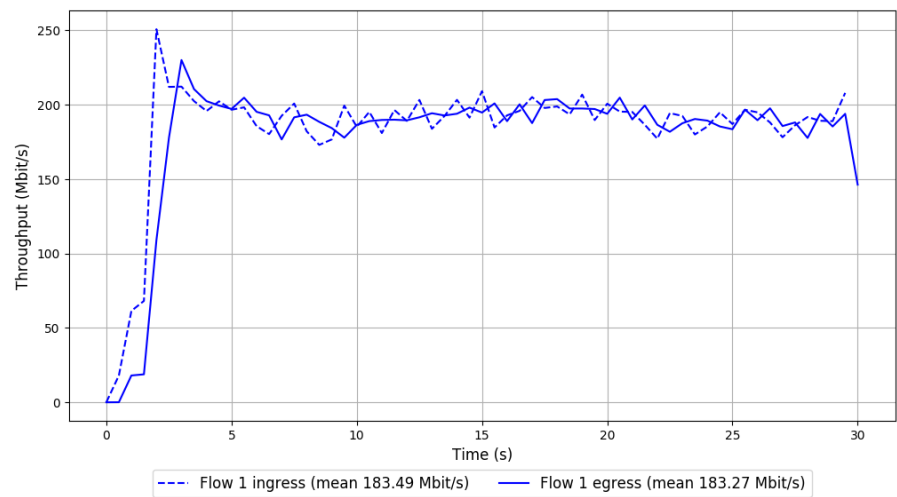
-- Flow 1:

Average throughput: 183.27 Mbit/s

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

Loss rate: 1.02%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-01 01:29:51

End at: 2018-07-01 01:30:21

Local clock offset: 0.539 ms

Remote clock offset: 0.074 ms

Below is generated by plot.py at 2018-07-01 03:09:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.53 Mbit/s

95th percentile per-packet one-way delay: 136.997 ms

Loss rate: 0.97%

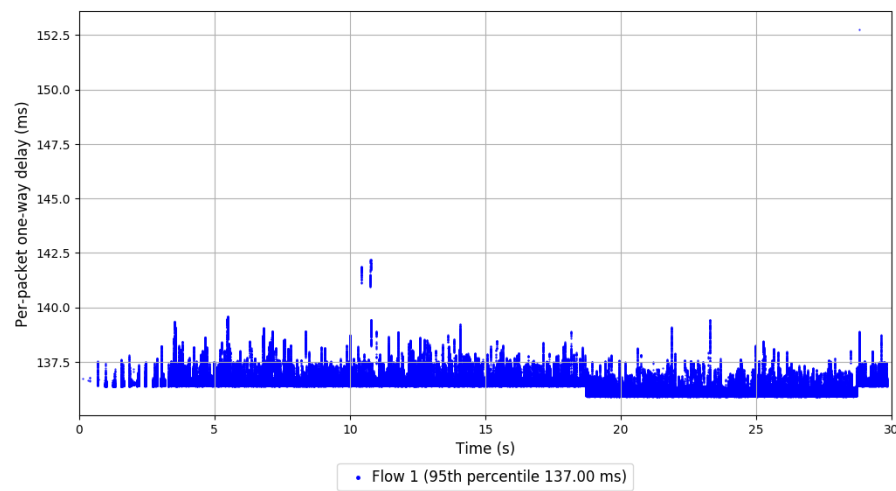
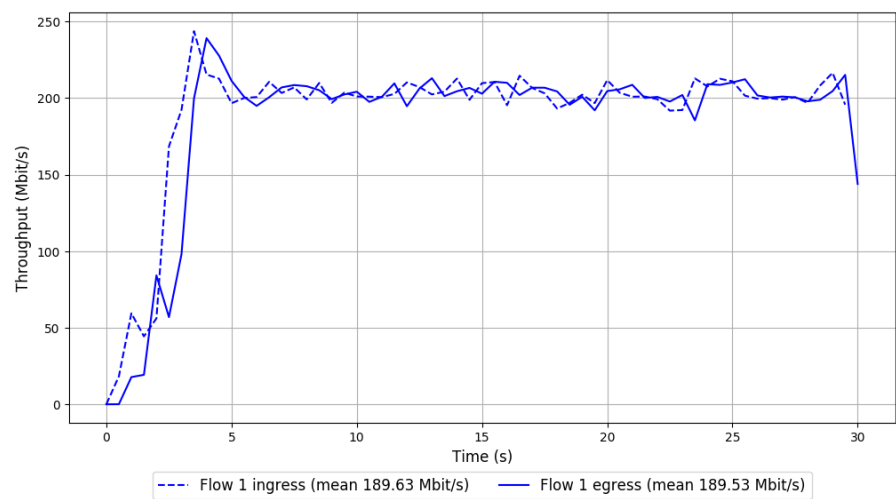
-- Flow 1:

Average throughput: 189.53 Mbit/s

95th percentile per-packet one-way delay: 136.997 ms

Loss rate: 0.97%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-01 01:52:15

End at: 2018-07-01 01:52:45

Local clock offset: 0.317 ms

Remote clock offset: 0.09 ms

Below is generated by plot.py at 2018-07-01 03:09:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.23 Mbit/s

95th percentile per-packet one-way delay: 136.275 ms

Loss rate: 0.93%

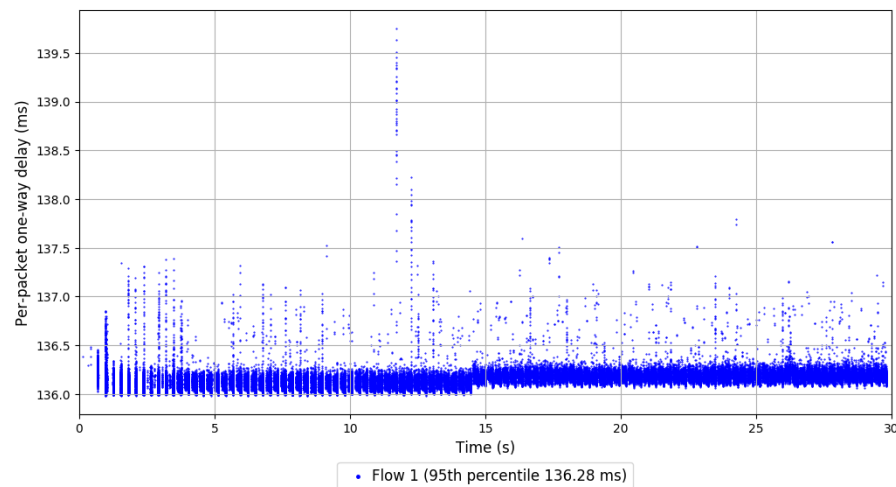
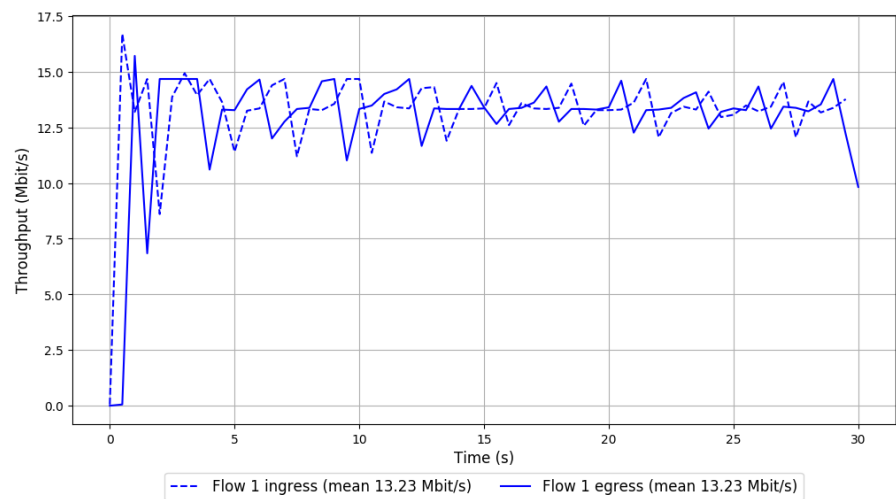
-- Flow 1:

Average throughput: 13.23 Mbit/s

95th percentile per-packet one-way delay: 136.275 ms

Loss rate: 0.93%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-06-30 22:35:21

End at: 2018-06-30 22:35:51

Local clock offset: 0.124 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-07-01 03:09:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.41 Mbit/s

95th percentile per-packet one-way delay: 138.661 ms

Loss rate: 0.22%

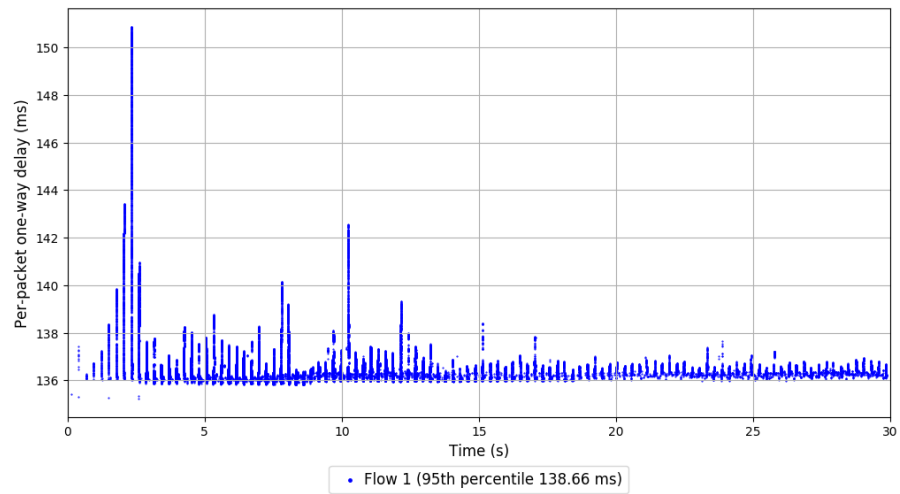
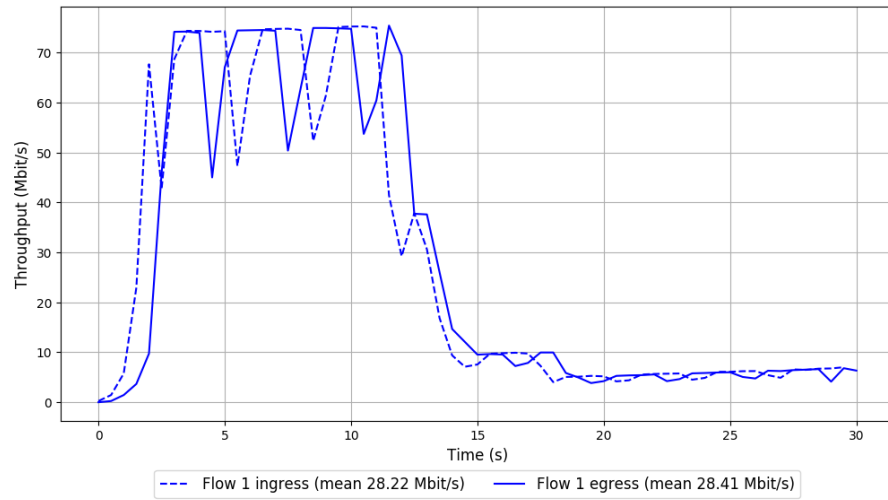
-- Flow 1:

Average throughput: 28.41 Mbit/s

95th percentile per-packet one-way delay: 138.661 ms

Loss rate: 0.22%

Run 1: Report of TCP Vegas — Data Link

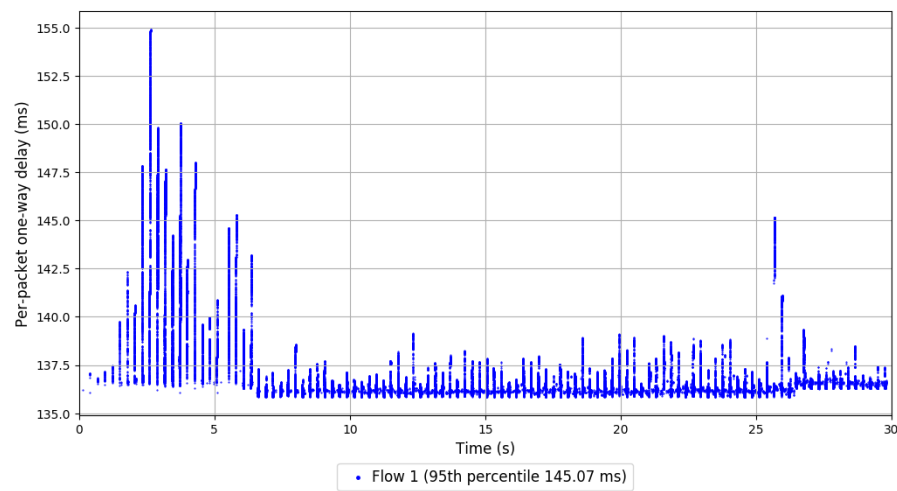
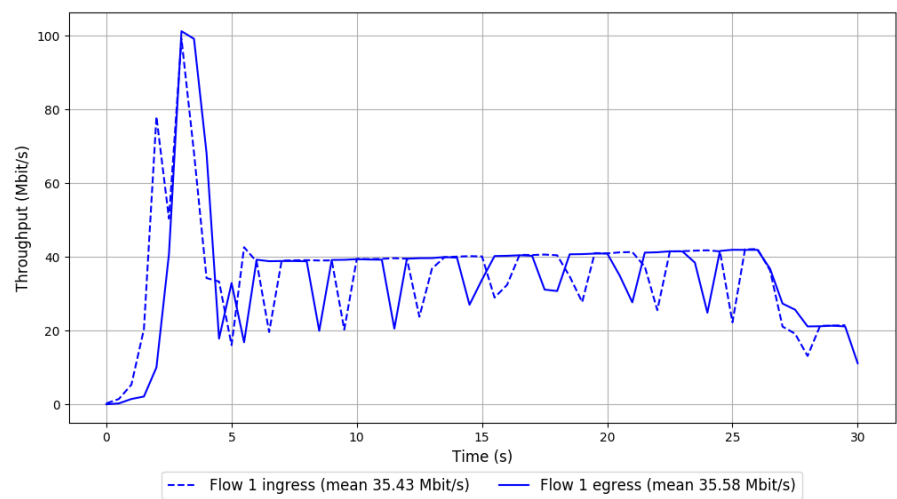


Run 2: Statistics of TCP Vegas

Start at: 2018-06-30 22:57:03
End at: 2018-06-30 22:57:33
Local clock offset: 0.098 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2018-07-01 03:09:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 35.58 Mbit/s
95th percentile per-packet one-way delay: 145.068 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 35.58 Mbit/s
95th percentile per-packet one-way delay: 145.068 ms
Loss rate: 0.51%

Run 2: Report of TCP Vegas — Data Link

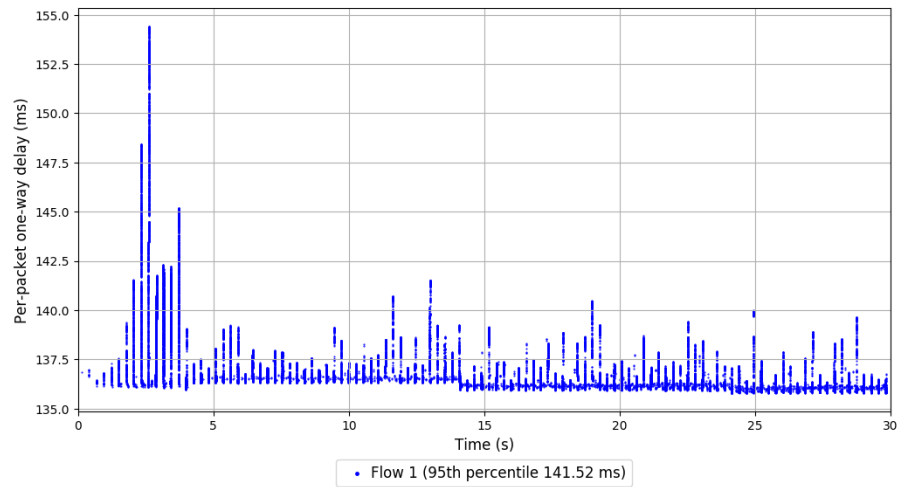
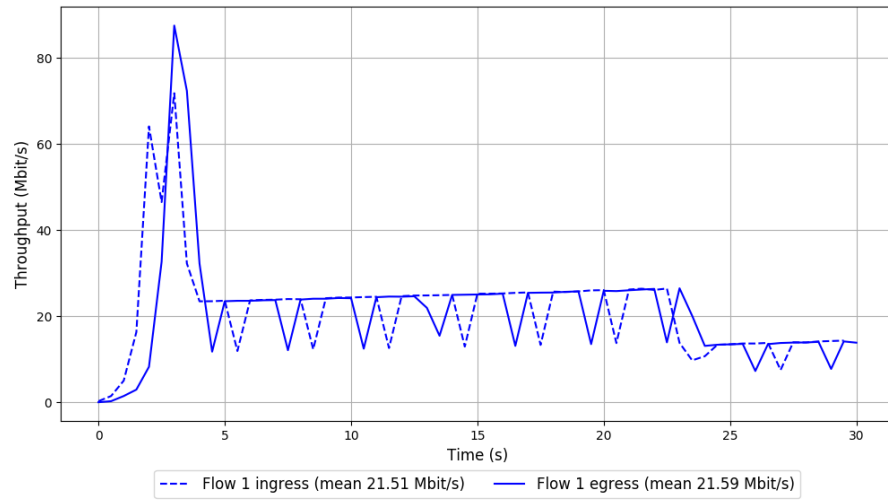


Run 3: Statistics of TCP Vegas

Start at: 2018-06-30 23:19:16
End at: 2018-06-30 23:19:46
Local clock offset: 0.104 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-07-01 03:09:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 21.59 Mbit/s
95th percentile per-packet one-way delay: 141.519 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 21.59 Mbit/s
95th percentile per-packet one-way delay: 141.519 ms
Loss rate: 0.56%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-06-30 23:40:55

End at: 2018-06-30 23:41:25

Local clock offset: 0.17 ms

Remote clock offset: 0.086 ms

Below is generated by plot.py at 2018-07-01 03:09:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.44 Mbit/s

95th percentile per-packet one-way delay: 146.688 ms

Loss rate: 0.40%

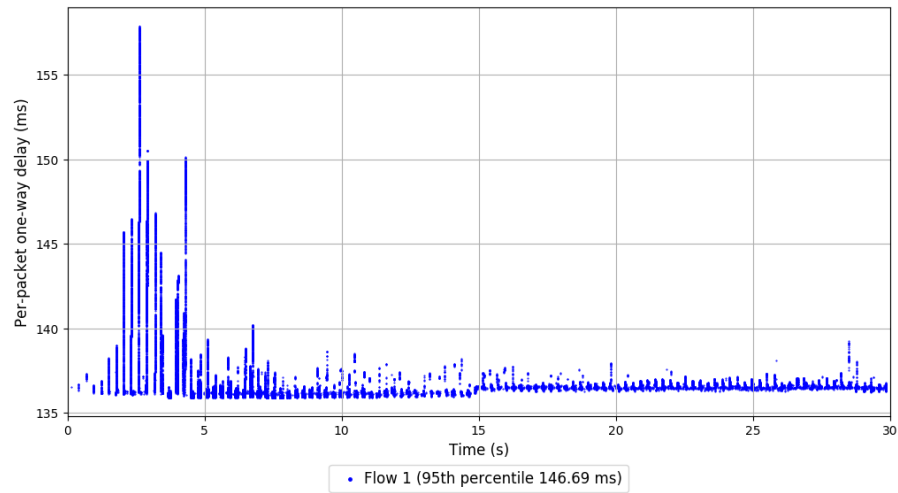
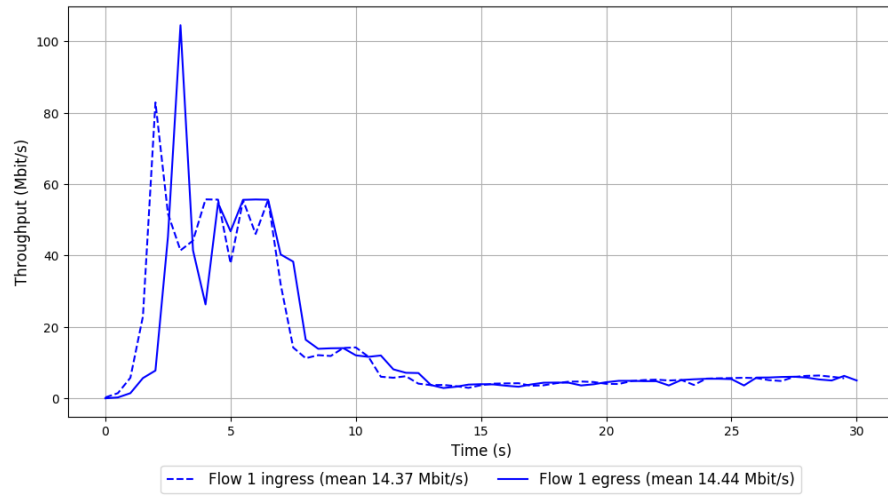
-- Flow 1:

Average throughput: 14.44 Mbit/s

95th percentile per-packet one-way delay: 146.688 ms

Loss rate: 0.40%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-07-01 00:02:43

End at: 2018-07-01 00:03:13

Local clock offset: 0.215 ms

Remote clock offset: 0.15 ms

Below is generated by plot.py at 2018-07-01 03:09:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.40 Mbit/s

95th percentile per-packet one-way delay: 146.386 ms

Loss rate: 0.65%

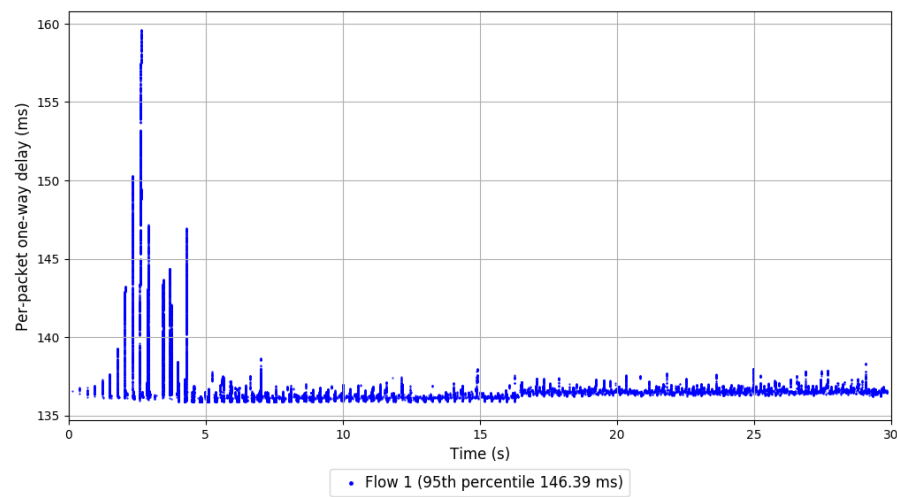
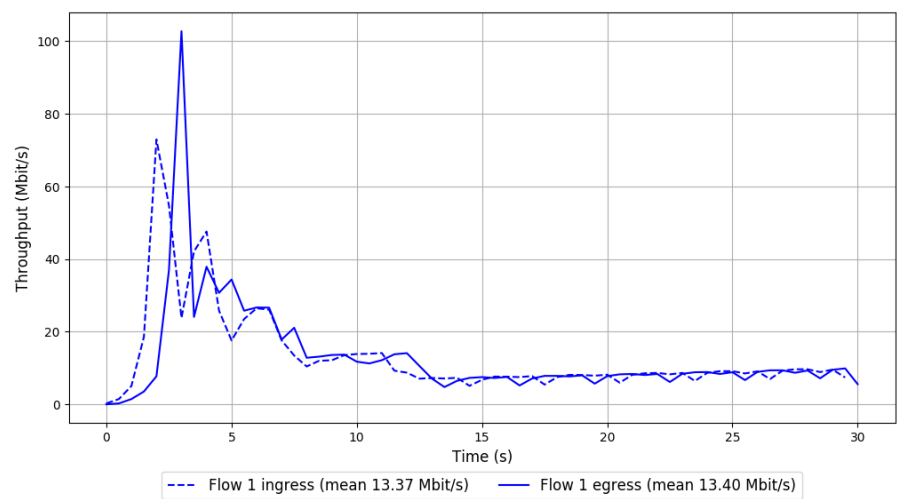
-- Flow 1:

Average throughput: 13.40 Mbit/s

95th percentile per-packet one-way delay: 146.386 ms

Loss rate: 0.65%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-01 00:24:46

End at: 2018-07-01 00:25:16

Local clock offset: 0.29 ms

Remote clock offset: 0.08 ms

Below is generated by plot.py at 2018-07-01 03:09:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.73 Mbit/s

95th percentile per-packet one-way delay: 148.620 ms

Loss rate: 0.94%

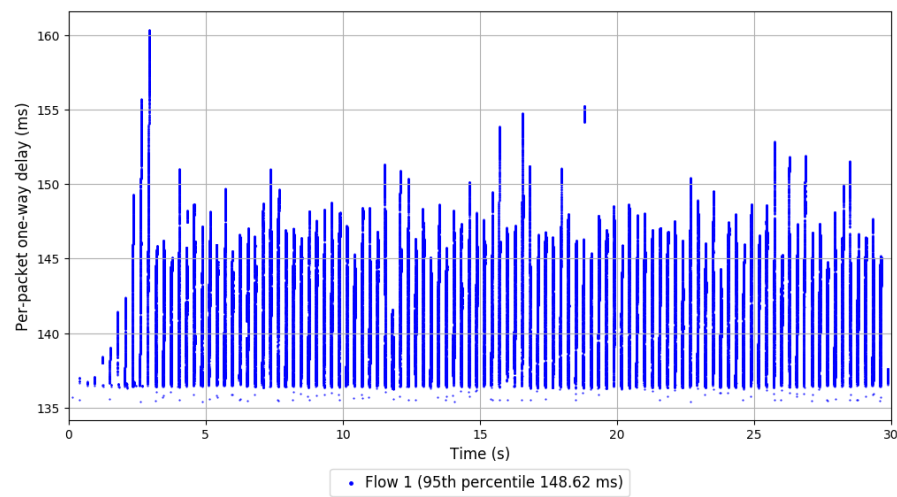
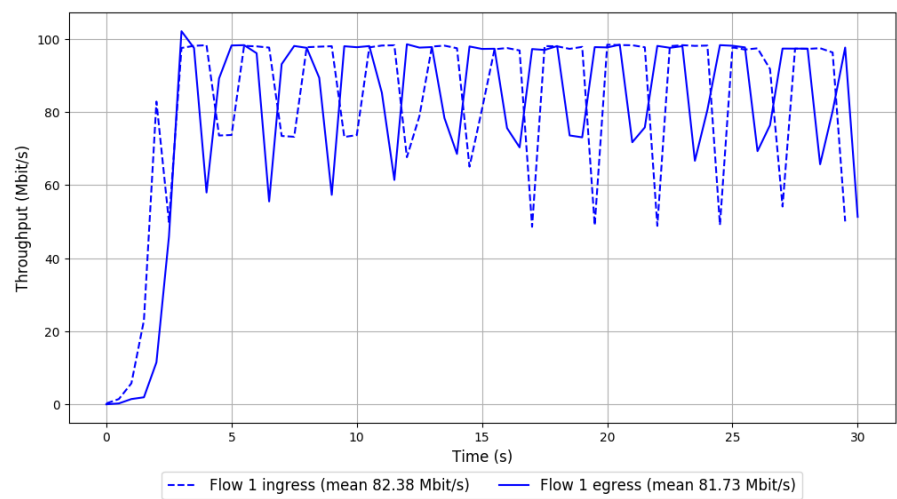
-- Flow 1:

Average throughput: 81.73 Mbit/s

95th percentile per-packet one-way delay: 148.620 ms

Loss rate: 0.94%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-01 00:46:47

End at: 2018-07-01 00:47:17

Local clock offset: 0.212 ms

Remote clock offset: 0.035 ms

Below is generated by plot.py at 2018-07-01 03:09:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.10 Mbit/s

95th percentile per-packet one-way delay: 138.069 ms

Loss rate: 0.70%

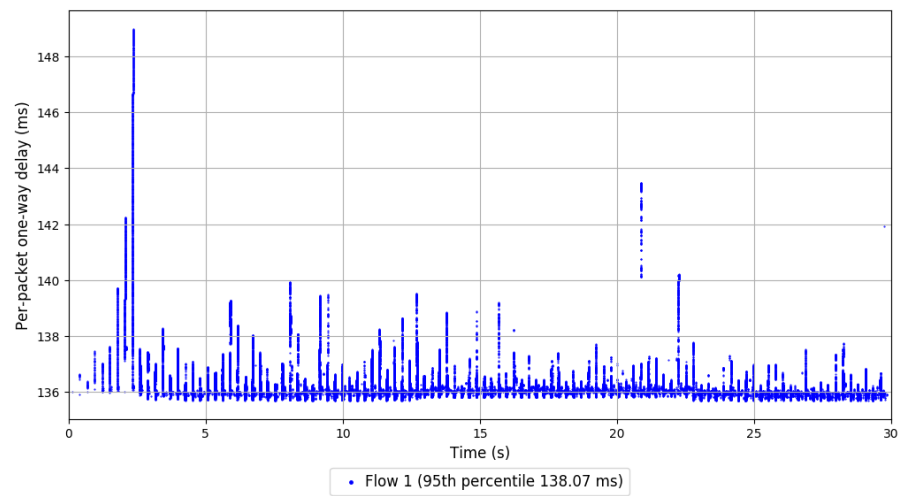
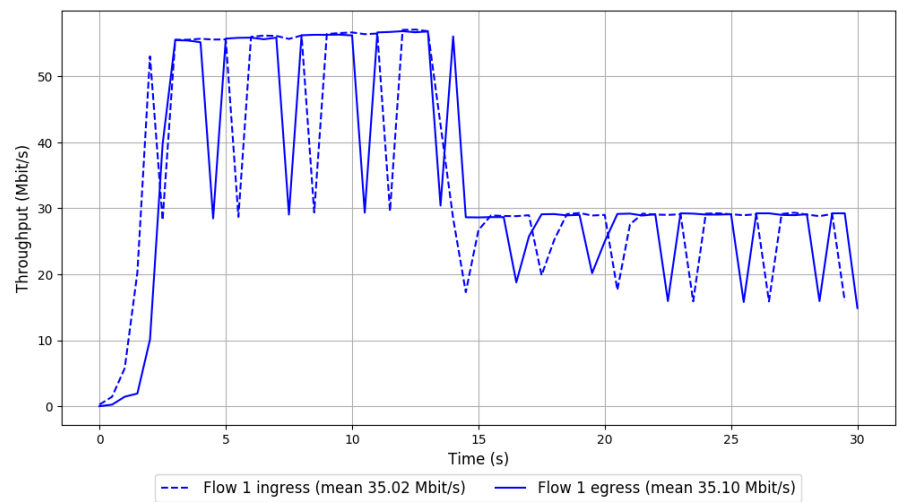
-- Flow 1:

Average throughput: 35.10 Mbit/s

95th percentile per-packet one-way delay: 138.069 ms

Loss rate: 0.70%

Run 7: Report of TCP Vegas — Data Link

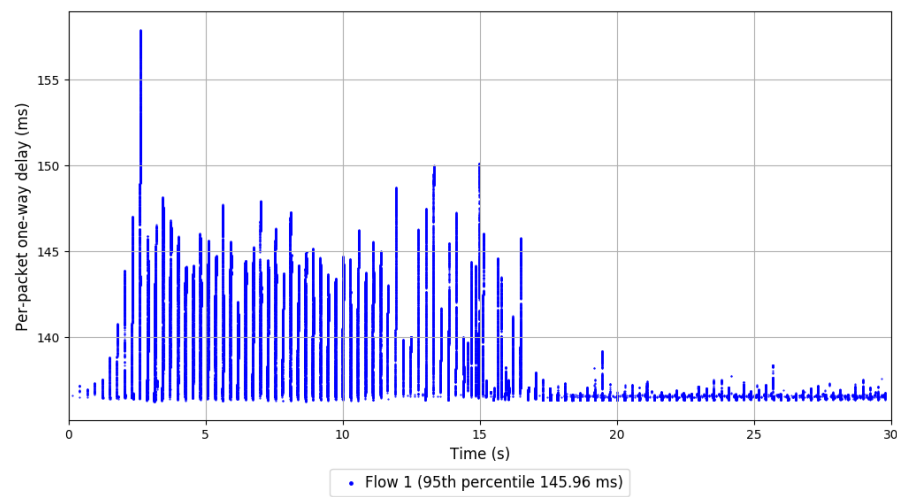
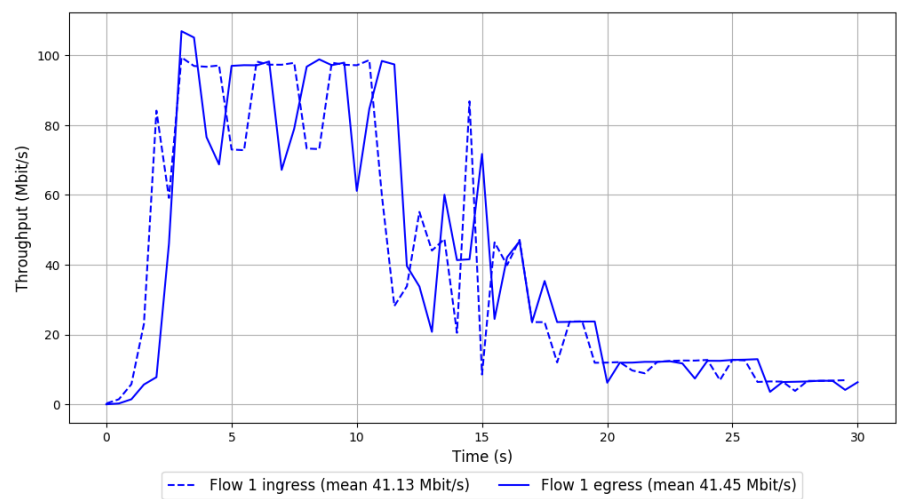


Run 8: Statistics of TCP Vegas

Start at: 2018-07-01 01:08:59
End at: 2018-07-01 01:09:29
Local clock offset: 0.463 ms
Remote clock offset: -0.289 ms

Below is generated by plot.py at 2018-07-01 03:09:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 41.45 Mbit/s
95th percentile per-packet one-way delay: 145.960 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 41.45 Mbit/s
95th percentile per-packet one-way delay: 145.960 ms
Loss rate: 0.15%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-01 01:31:19

End at: 2018-07-01 01:31:49

Local clock offset: 0.241 ms

Remote clock offset: 0.034 ms

Below is generated by plot.py at 2018-07-01 03:09:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.25 Mbit/s

95th percentile per-packet one-way delay: 145.999 ms

Loss rate: 0.27%

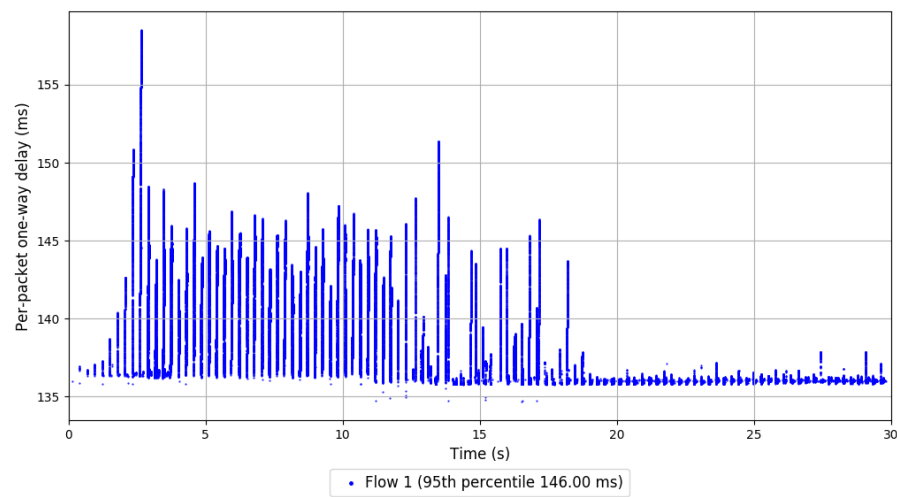
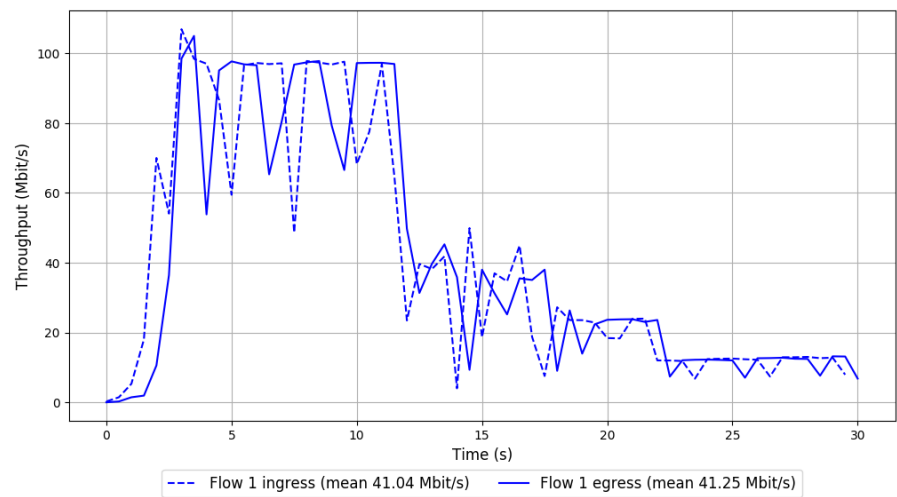
-- Flow 1:

Average throughput: 41.25 Mbit/s

95th percentile per-packet one-way delay: 145.999 ms

Loss rate: 0.27%

Run 9: Report of TCP Vegas — Data Link

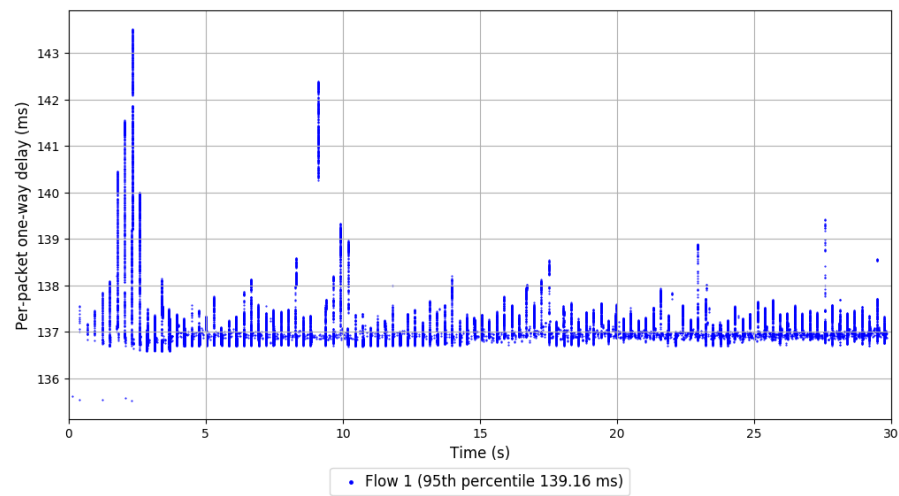
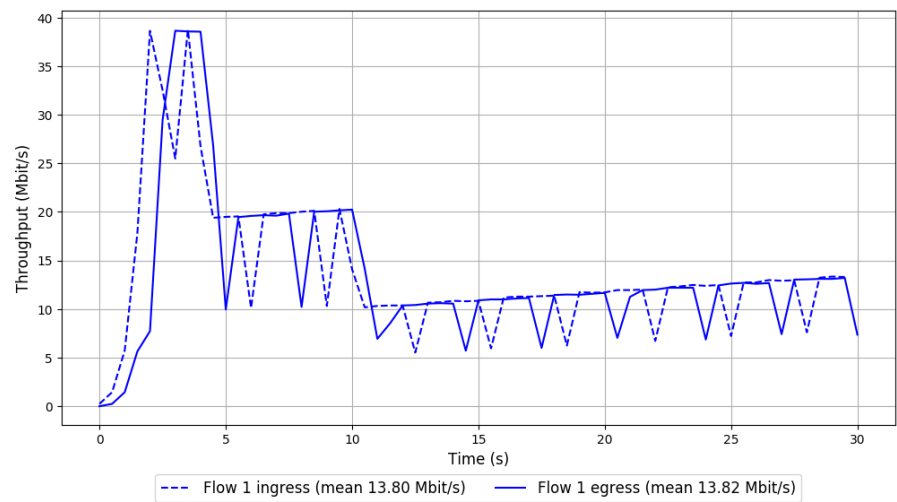


Run 10: Statistics of TCP Vegas

Start at: 2018-07-01 01:53:26
End at: 2018-07-01 01:53:56
Local clock offset: 0.502 ms
Remote clock offset: -0.315 ms

Below is generated by plot.py at 2018-07-01 03:09:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.82 Mbit/s
95th percentile per-packet one-way delay: 139.158 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 13.82 Mbit/s
95th percentile per-packet one-way delay: 139.158 ms
Loss rate: 0.81%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-06-30 22:38:52

End at: 2018-06-30 22:39:22

Local clock offset: 0.107 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-07-01 03:09:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 156.75 Mbit/s

95th percentile per-packet one-way delay: 256.318 ms

Loss rate: 3.28%

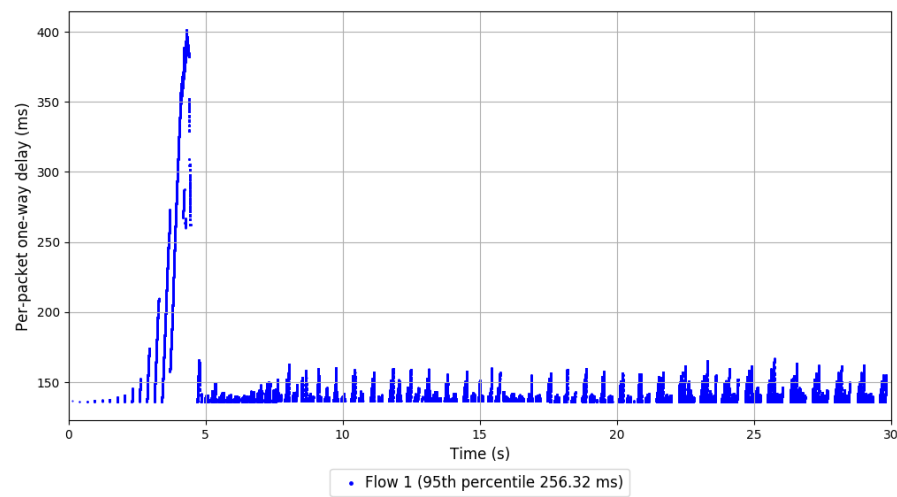
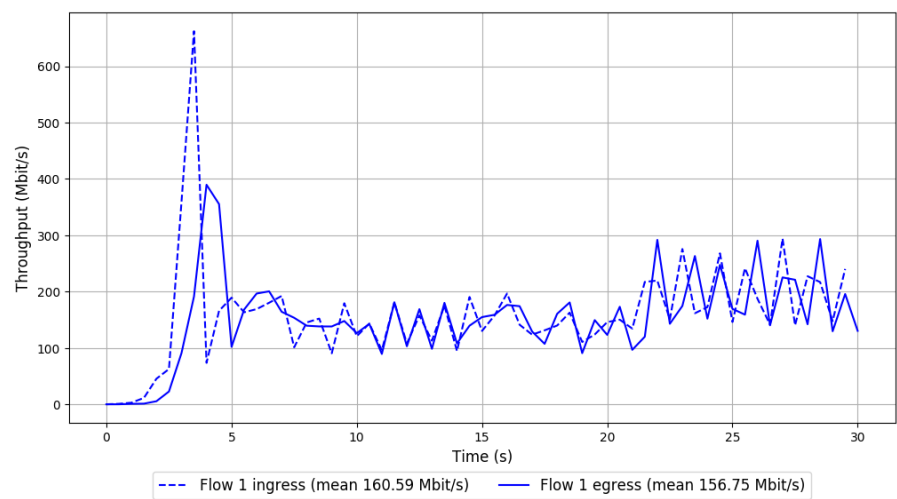
-- Flow 1:

Average throughput: 156.75 Mbit/s

95th percentile per-packet one-way delay: 256.318 ms

Loss rate: 3.28%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-06-30 23:00:35

End at: 2018-06-30 23:01:05

Local clock offset: -0.216 ms

Remote clock offset: 0.331 ms

Below is generated by plot.py at 2018-07-01 03:09:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.31 Mbit/s

95th percentile per-packet one-way delay: 315.591 ms

Loss rate: 4.67%

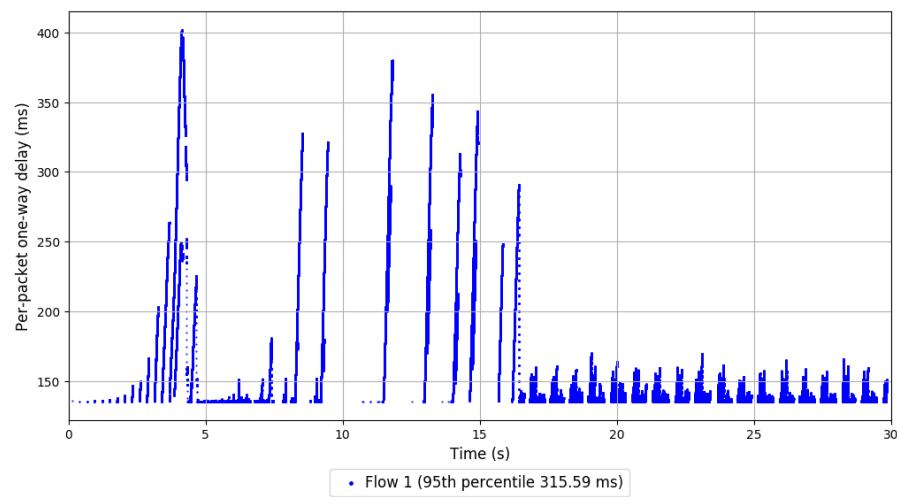
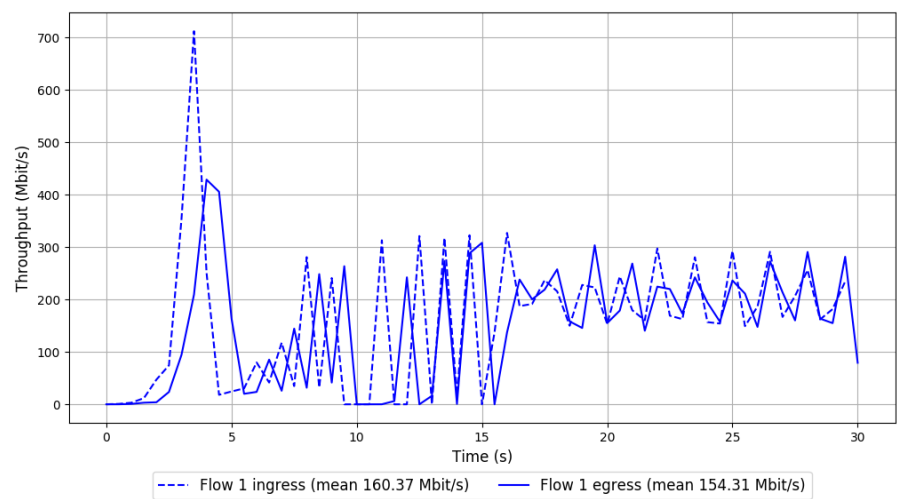
-- Flow 1:

Average throughput: 154.31 Mbit/s

95th percentile per-packet one-way delay: 315.591 ms

Loss rate: 4.67%

Run 2: Report of Verus — Data Link

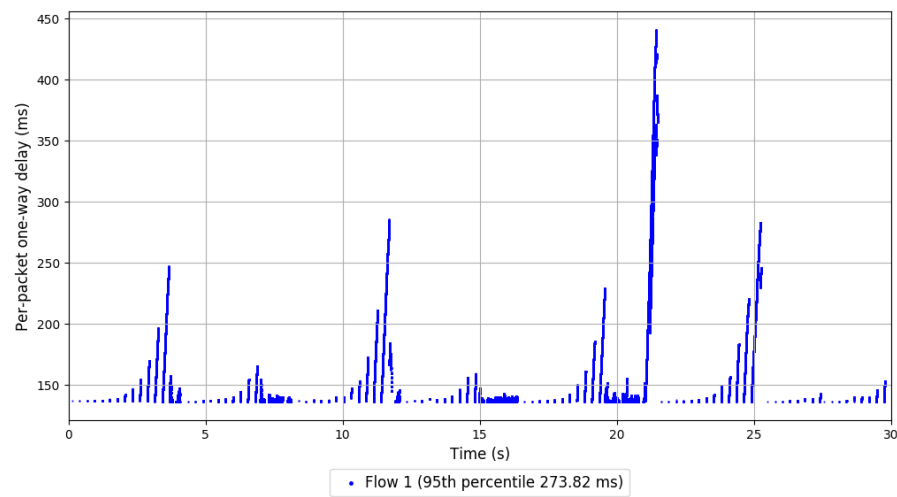
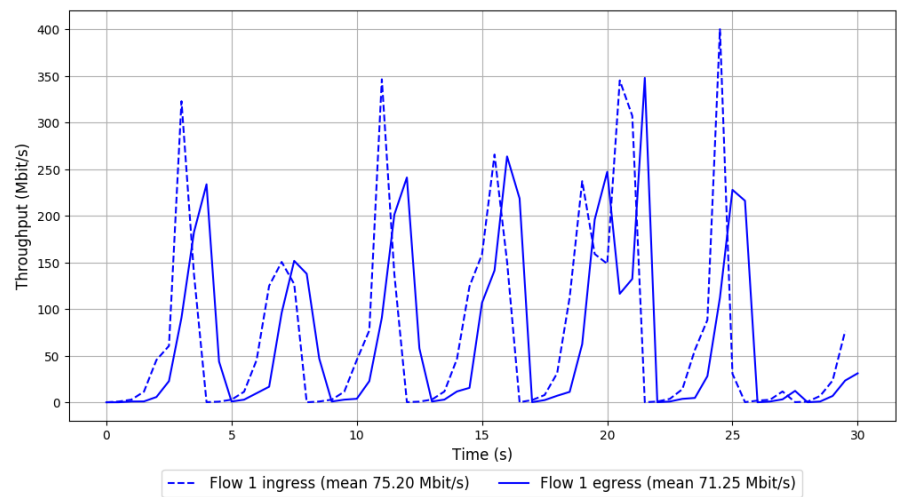


Run 3: Statistics of Verus

Start at: 2018-06-30 23:22:47
End at: 2018-06-30 23:23:17
Local clock offset: 0.006 ms
Remote clock offset: -0.054 ms

Below is generated by plot.py at 2018-07-01 03:09:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 71.25 Mbit/s
95th percentile per-packet one-way delay: 273.820 ms
Loss rate: 6.10%
-- Flow 1:
Average throughput: 71.25 Mbit/s
95th percentile per-packet one-way delay: 273.820 ms
Loss rate: 6.10%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-06-30 23:44:25

End at: 2018-06-30 23:44:55

Local clock offset: 0.144 ms

Remote clock offset: 0.089 ms

Below is generated by plot.py at 2018-07-01 03:09:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 109.04 Mbit/s

95th percentile per-packet one-way delay: 227.666 ms

Loss rate: 0.84%

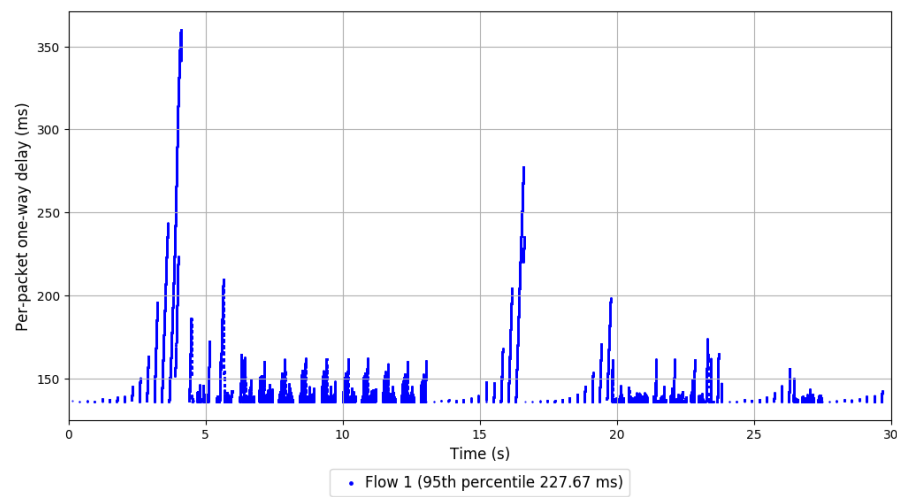
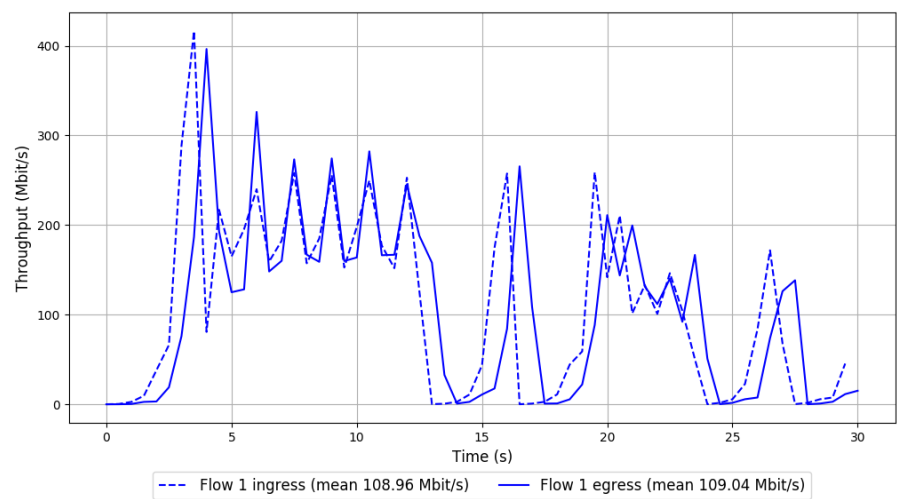
-- Flow 1:

Average throughput: 109.04 Mbit/s

95th percentile per-packet one-way delay: 227.666 ms

Loss rate: 0.84%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-07-01 00:06:14

End at: 2018-07-01 00:06:44

Local clock offset: 0.226 ms

Remote clock offset: 0.136 ms

Below is generated by plot.py at 2018-07-01 03:10:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.97 Mbit/s

95th percentile per-packet one-way delay: 236.142 ms

Loss rate: 0.50%

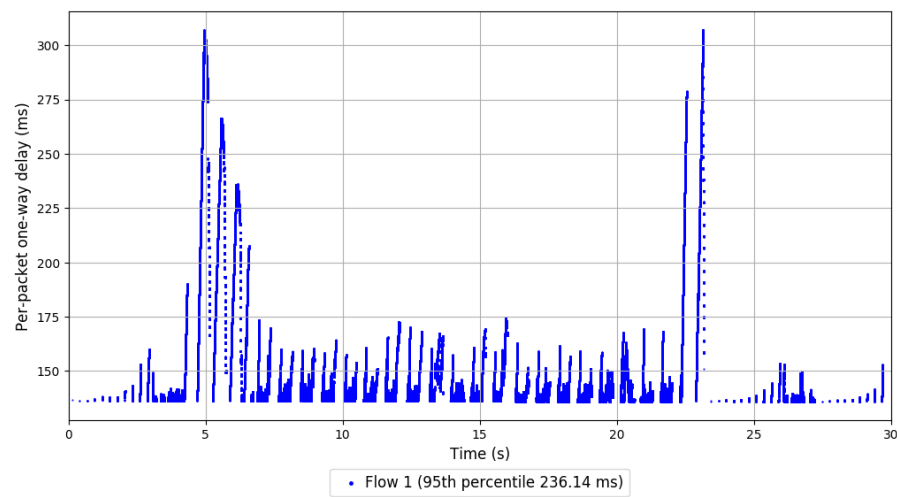
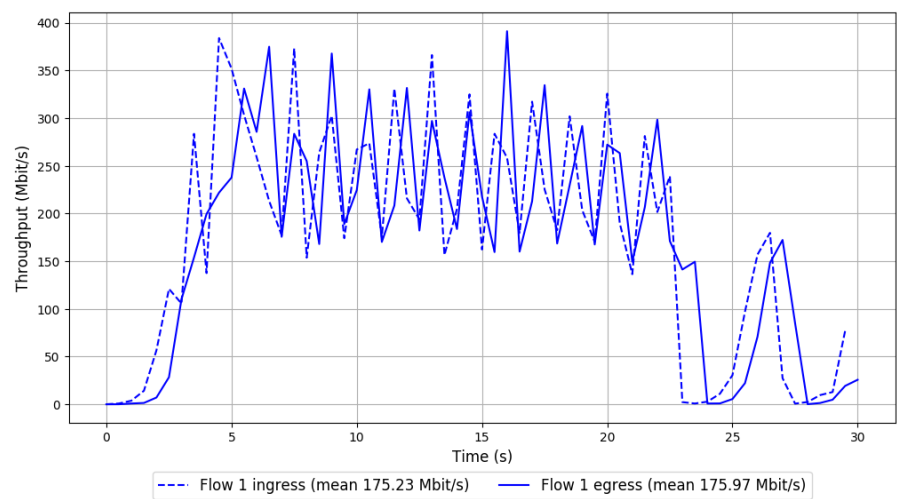
-- Flow 1:

Average throughput: 175.97 Mbit/s

95th percentile per-packet one-way delay: 236.142 ms

Loss rate: 0.50%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-07-01 00:28:20

End at: 2018-07-01 00:28:50

Local clock offset: 0.112 ms

Remote clock offset: 0.054 ms

Below is generated by plot.py at 2018-07-01 03:11:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.59 Mbit/s

95th percentile per-packet one-way delay: 226.418 ms

Loss rate: 1.13%

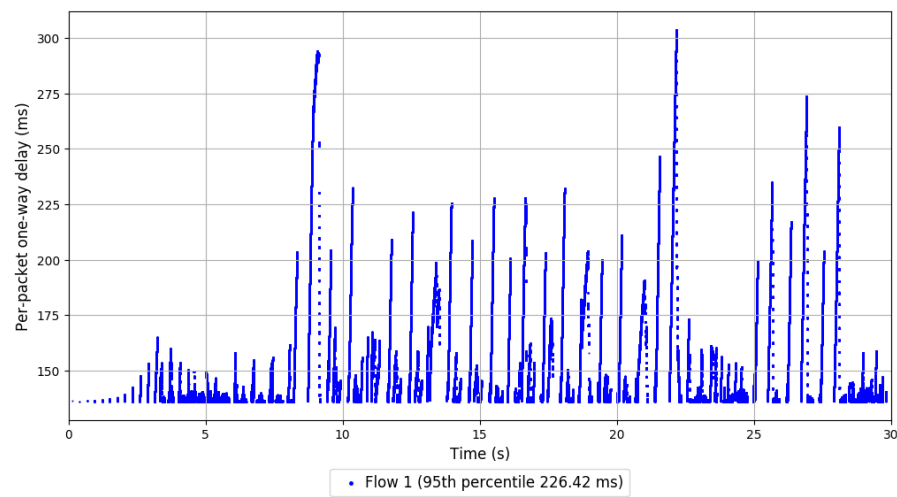
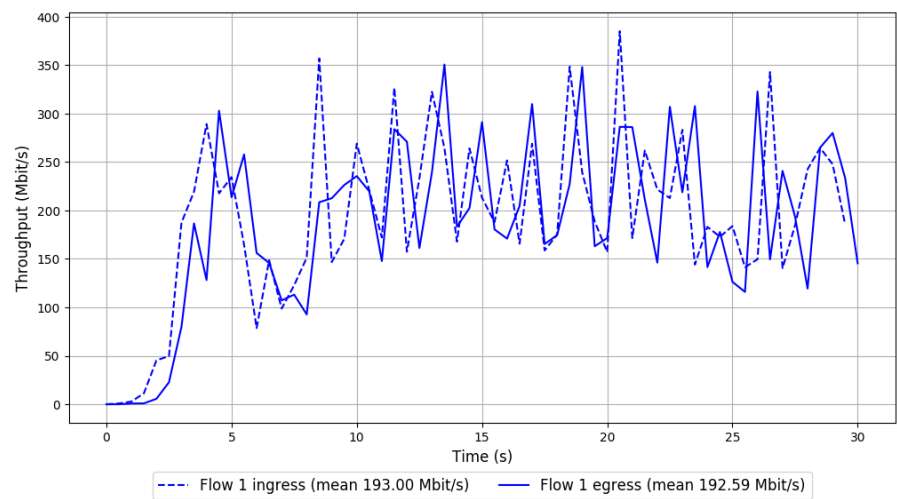
-- Flow 1:

Average throughput: 192.59 Mbit/s

95th percentile per-packet one-way delay: 226.418 ms

Loss rate: 1.13%

Run 6: Report of Verus — Data Link

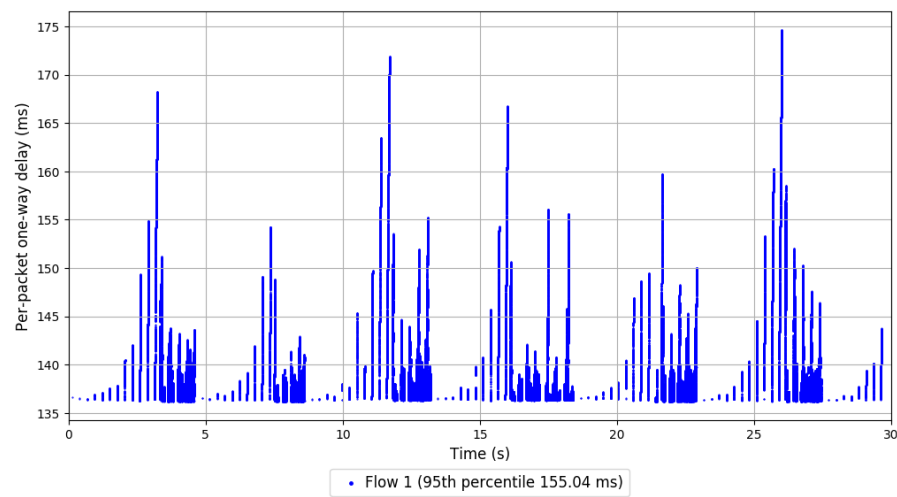
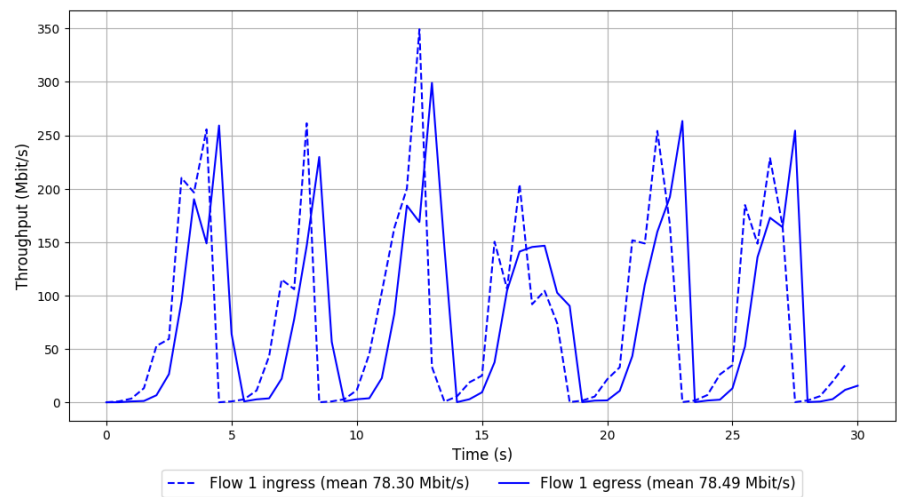


Run 7: Statistics of Verus

Start at: 2018-07-01 00:50:19
End at: 2018-07-01 00:50:49
Local clock offset: 0.295 ms
Remote clock offset: -0.314 ms

Below is generated by plot.py at 2018-07-01 03:11:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.49 Mbit/s
95th percentile per-packet one-way delay: 155.043 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 78.49 Mbit/s
95th percentile per-packet one-way delay: 155.043 ms
Loss rate: 0.67%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-07-01 01:12:31

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

Local clock offset: 0.551 ms

Remote clock offset: 0.07 ms

Below is generated by plot.py at 2018-07-01 03:11:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.38 Mbit/s

95th percentile per-packet one-way delay: 174.482 ms

Loss rate: 1.42%

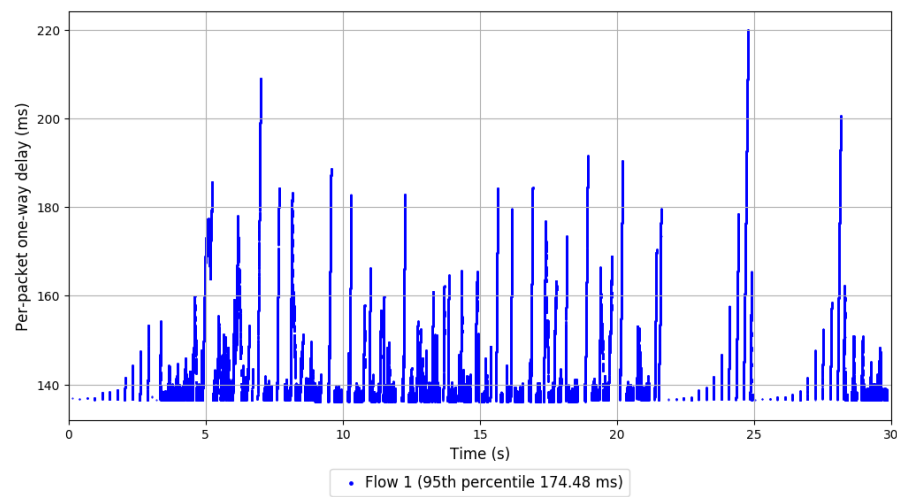
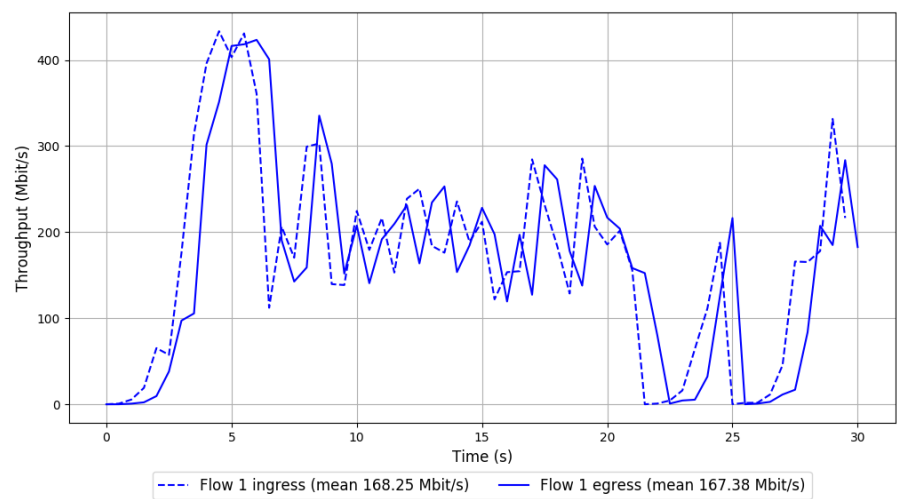
-- Flow 1:

Average throughput: 167.38 Mbit/s

95th percentile per-packet one-way delay: 174.482 ms

Loss rate: 1.42%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-01 01:34:51

End at: 2018-07-01 01:35:21

Local clock offset: 0.325 ms

Remote clock offset: 0.051 ms

Below is generated by plot.py at 2018-07-01 03:11:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.94 Mbit/s

95th percentile per-packet one-way delay: 194.132 ms

Loss rate: 0.88%

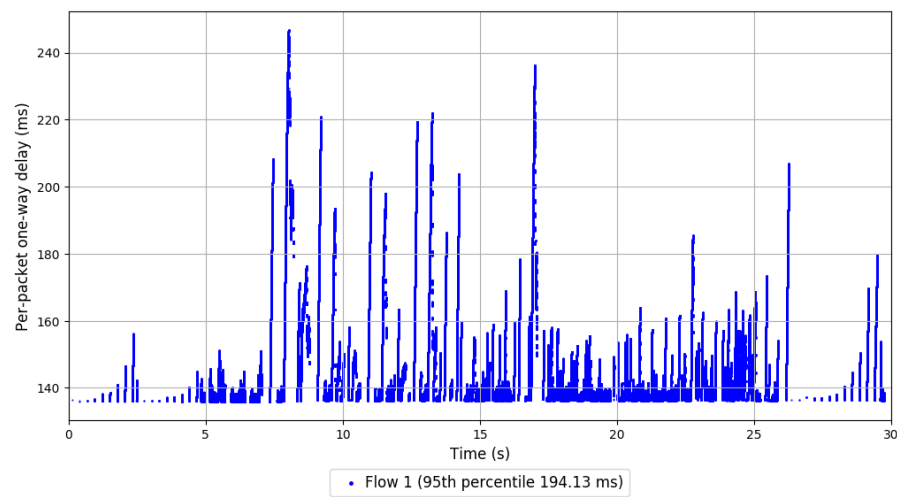
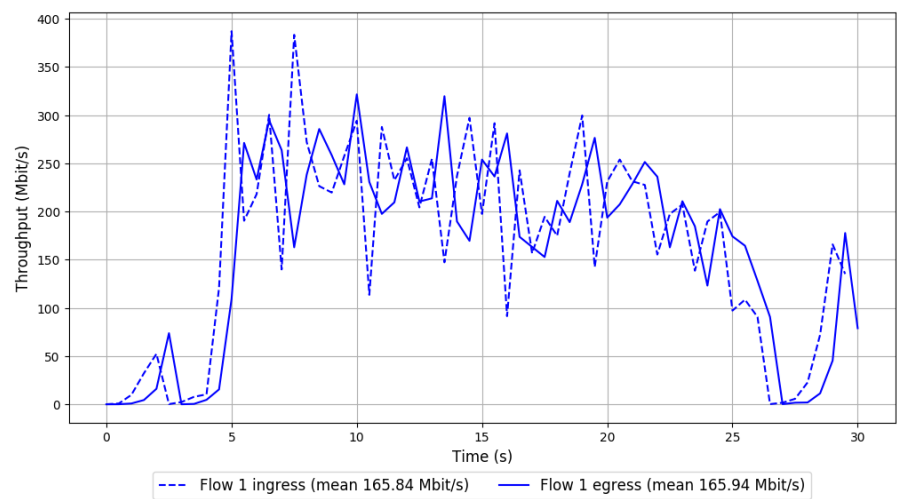
-- Flow 1:

Average throughput: 165.94 Mbit/s

95th percentile per-packet one-way delay: 194.132 ms

Loss rate: 0.88%

Run 9: Report of Verus — Data Link

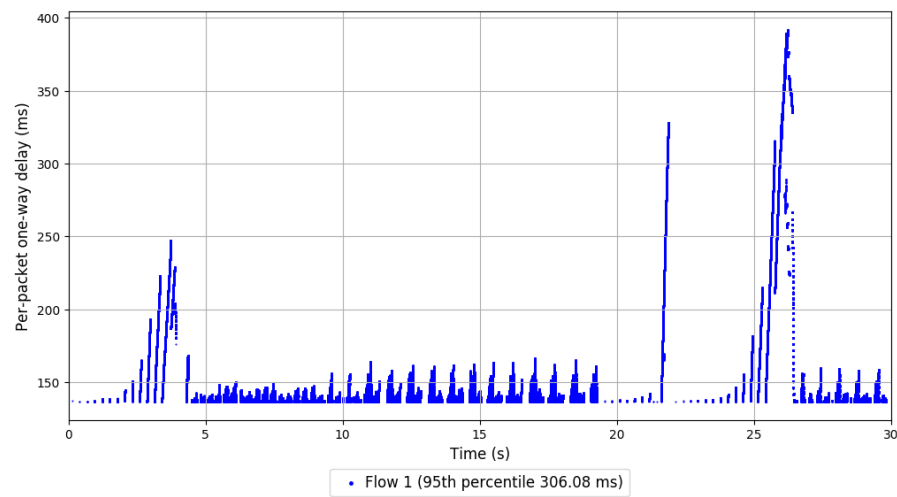
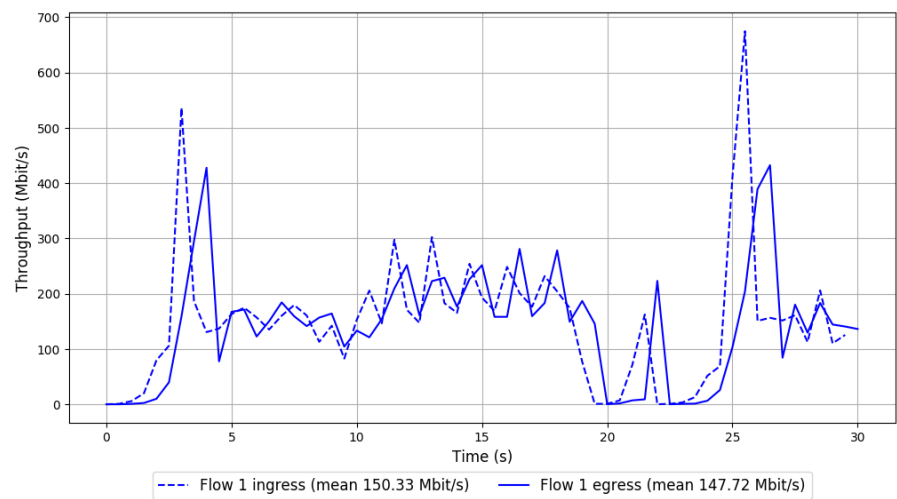


Run 10: Statistics of Verus

Start at: 2018-07-01 01:56:56
End at: 2018-07-01 01:57:26
Local clock offset: 0.416 ms
Remote clock offset: -0.317 ms

Below is generated by plot.py at 2018-07-01 03:11:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 147.72 Mbit/s
95th percentile per-packet one-way delay: 306.079 ms
Loss rate: 2.64%
-- Flow 1:
Average throughput: 147.72 Mbit/s
95th percentile per-packet one-way delay: 306.079 ms
Loss rate: 2.64%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-06-30 22:42:40

End at: 2018-06-30 22:43:10

Local clock offset: 0.009 ms

Remote clock offset: -0.405 ms

Below is generated by plot.py at 2018-07-01 03:13:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.65 Mbit/s

95th percentile per-packet one-way delay: 199.447 ms

Loss rate: 2.28%

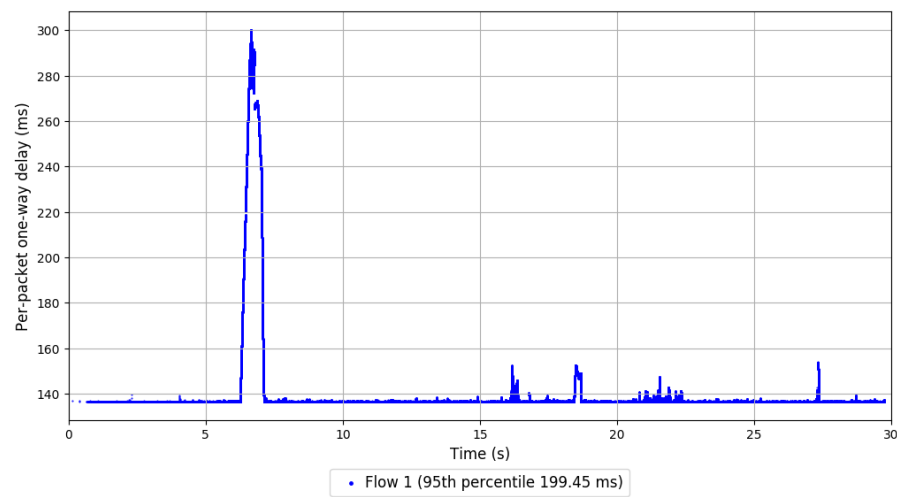
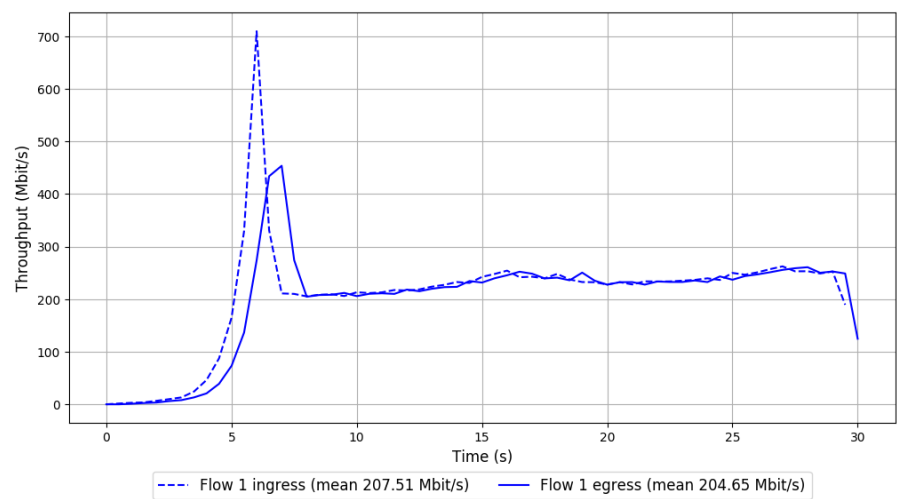
-- Flow 1:

Average throughput: 204.65 Mbit/s

95th percentile per-packet one-way delay: 199.447 ms

Loss rate: 2.28%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-30 23:04:23

End at: 2018-06-30 23:04:53

Local clock offset: 0.071 ms

Remote clock offset: -0.408 ms

Below is generated by plot.py at 2018-07-01 03:14:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.33 Mbit/s

95th percentile per-packet one-way delay: 177.271 ms

Loss rate: 1.83%

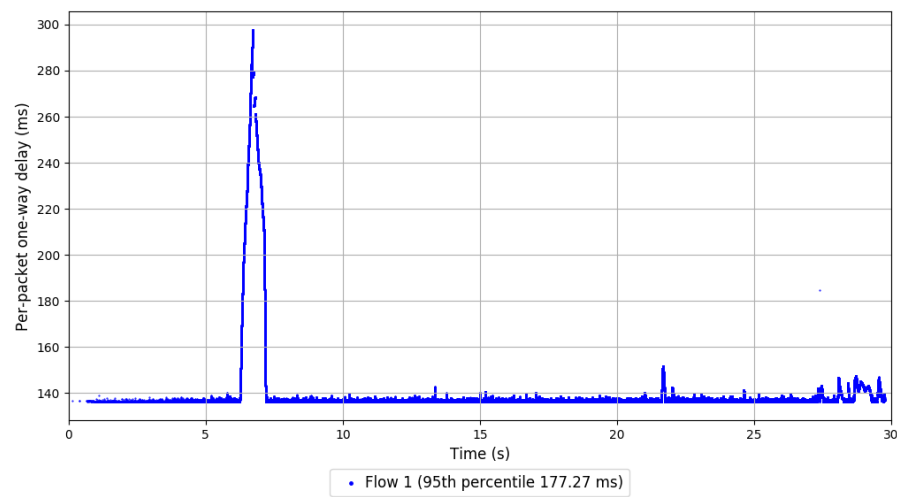
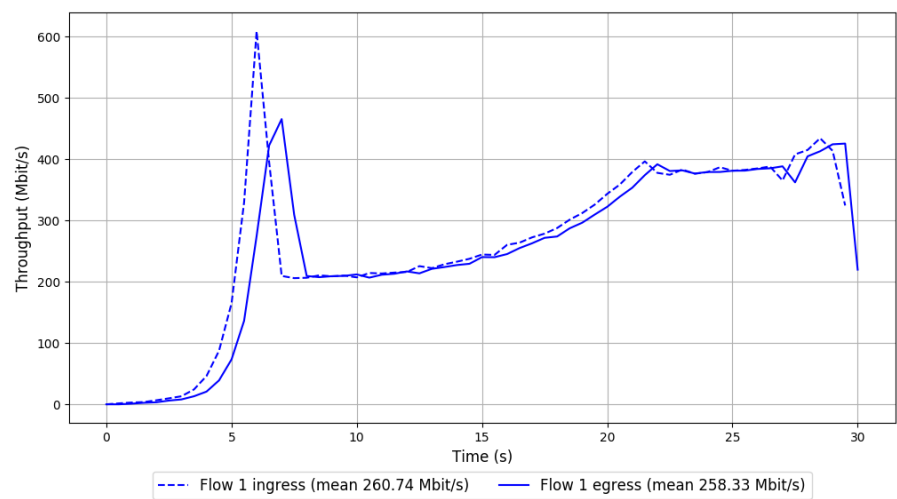
-- Flow 1:

Average throughput: 258.33 Mbit/s

95th percentile per-packet one-way delay: 177.271 ms

Loss rate: 1.83%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-30 23:26:29

End at: 2018-06-30 23:26:59

Local clock offset: 0.112 ms

Remote clock offset: -0.064 ms

Below is generated by plot.py at 2018-07-01 03:14:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 234.92 Mbit/s

95th percentile per-packet one-way delay: 172.000 ms

Loss rate: 2.51%

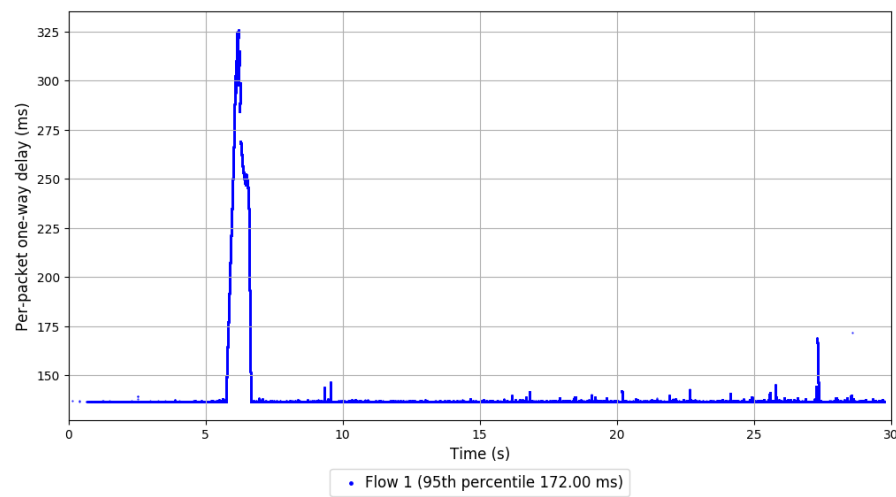
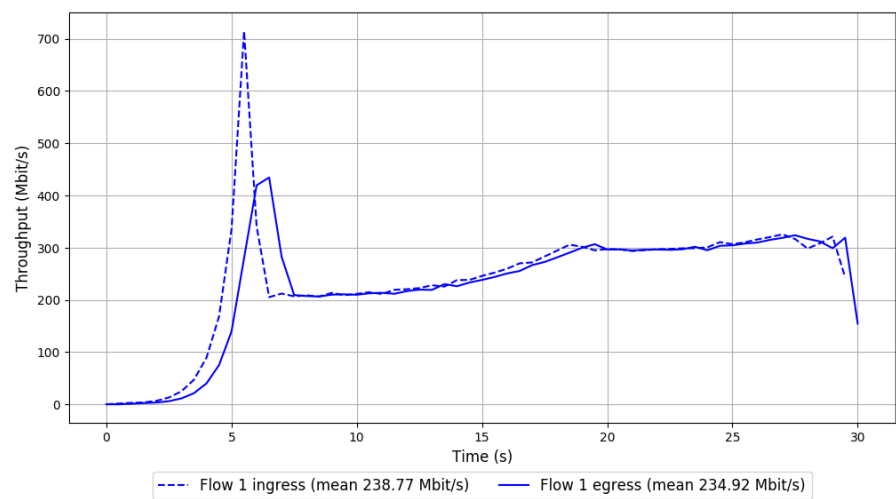
-- Flow 1:

Average throughput: 234.92 Mbit/s

95th percentile per-packet one-way delay: 172.000 ms

Loss rate: 2.51%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-30 23:48:14

End at: 2018-06-30 23:48:44

Local clock offset: 0.18 ms

Remote clock offset: 0.088 ms

Below is generated by plot.py at 2018-07-01 03:16:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 311.78 Mbit/s

95th percentile per-packet one-way delay: 166.645 ms

Loss rate: 1.47%

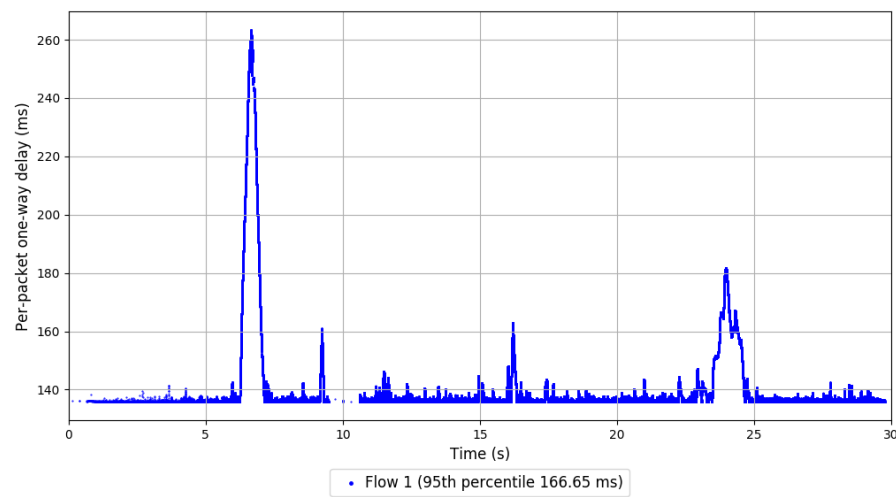
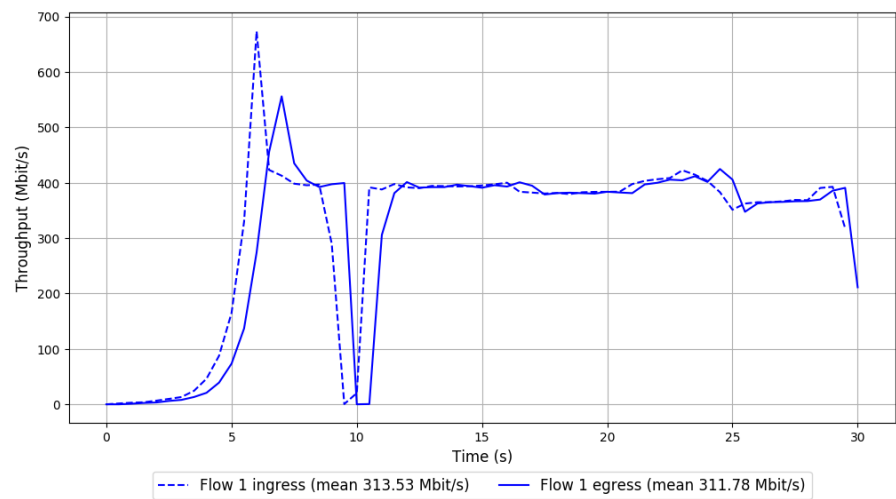
-- Flow 1:

Average throughput: 311.78 Mbit/s

95th percentile per-packet one-way delay: 166.645 ms

Loss rate: 1.47%

Run 4: Report of PCC-Vivace — Data Link

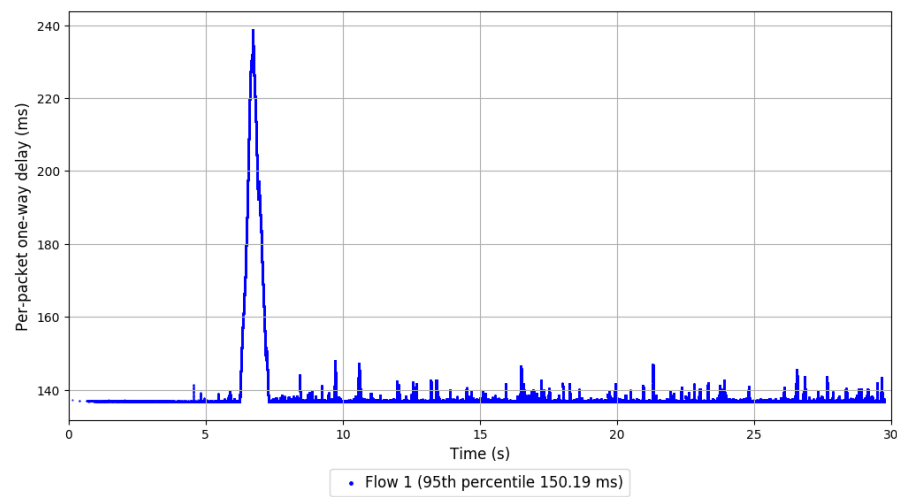
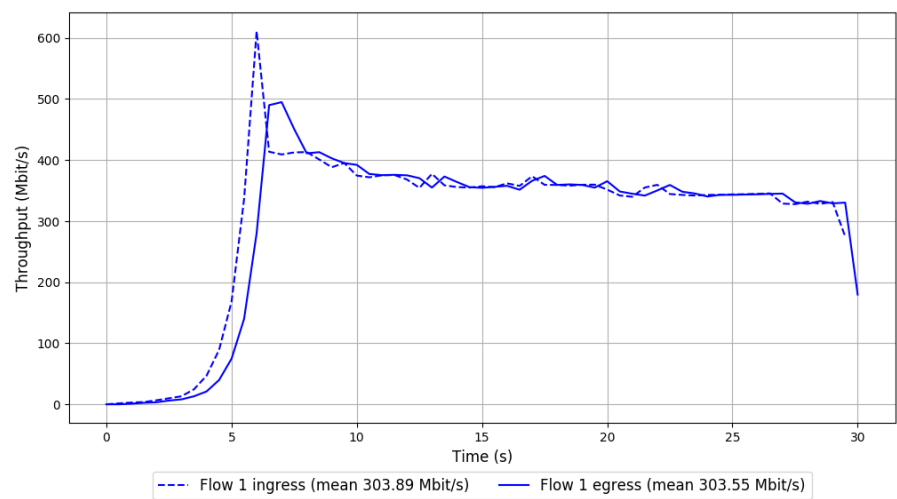


Run 5: Statistics of PCC-Vivace

Start at: 2018-07-01 00:10:03
End at: 2018-07-01 00:10:33
Local clock offset: 0.407 ms
Remote clock offset: -0.298 ms

Below is generated by plot.py at 2018-07-01 03:17:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 303.55 Mbit/s
95th percentile per-packet one-way delay: 150.186 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 303.55 Mbit/s
95th percentile per-packet one-way delay: 150.186 ms
Loss rate: 1.02%

Run 5: Report of PCC-Vivace — Data Link

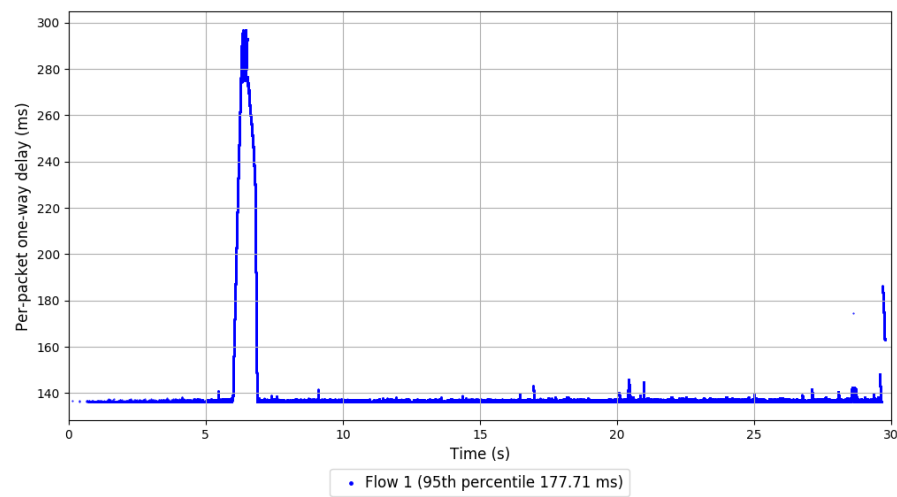
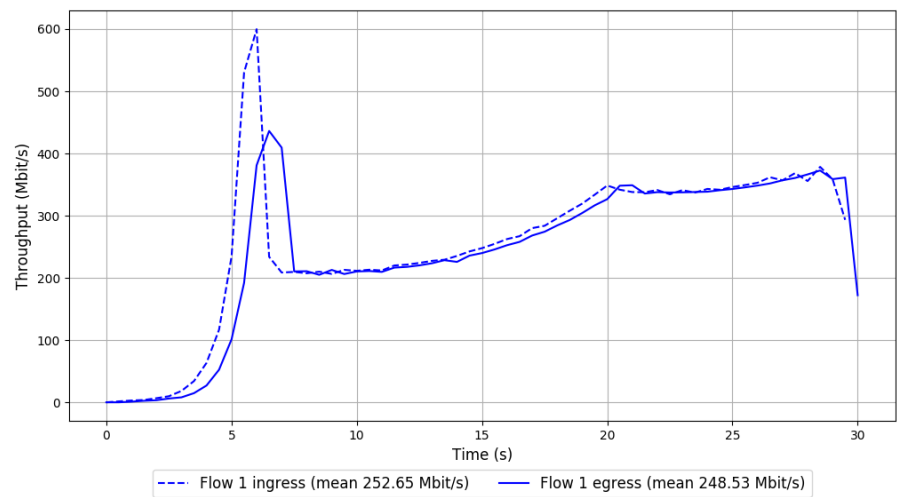


Run 6: Statistics of PCC-Vivace

Start at: 2018-07-01 00:32:10
End at: 2018-07-01 00:32:40
Local clock offset: 0.233 ms
Remote clock offset: -0.351 ms

Below is generated by plot.py at 2018-07-01 03:17:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 248.53 Mbit/s
95th percentile per-packet one-way delay: 177.705 ms
Loss rate: 2.53%
-- Flow 1:
Average throughput: 248.53 Mbit/s
95th percentile per-packet one-way delay: 177.705 ms
Loss rate: 2.53%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-01 00:54:01

End at: 2018-07-01 00:54:31

Local clock offset: 0.118 ms

Remote clock offset: 0.095 ms

Below is generated by plot.py at 2018-07-01 03:17:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 352.70 Mbit/s

95th percentile per-packet one-way delay: 160.233 ms

Loss rate: 1.63%

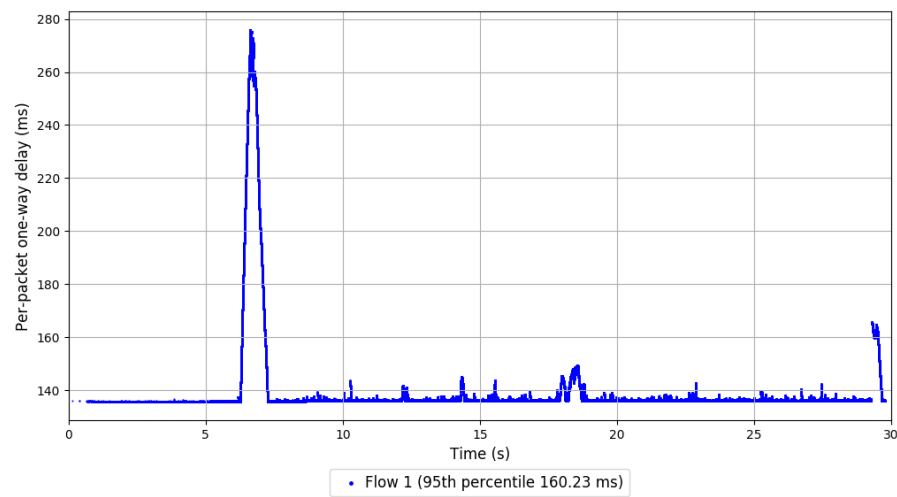
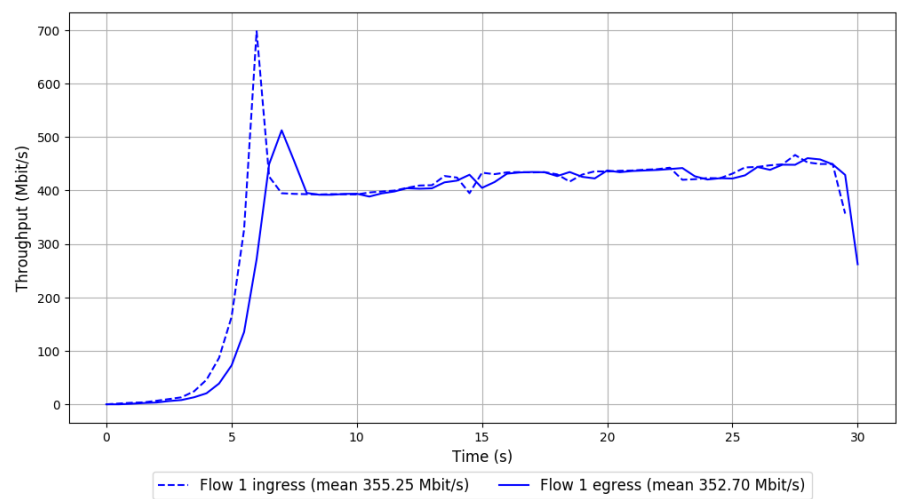
-- Flow 1:

Average throughput: 352.70 Mbit/s

95th percentile per-packet one-way delay: 160.233 ms

Loss rate: 1.63%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-01 01:16:19

End at: 2018-07-01 01:16:49

Local clock offset: 0.385 ms

Remote clock offset: 0.041 ms

Below is generated by plot.py at 2018-07-01 03:17:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.30 Mbit/s

95th percentile per-packet one-way delay: 151.186 ms

Loss rate: 1.13%

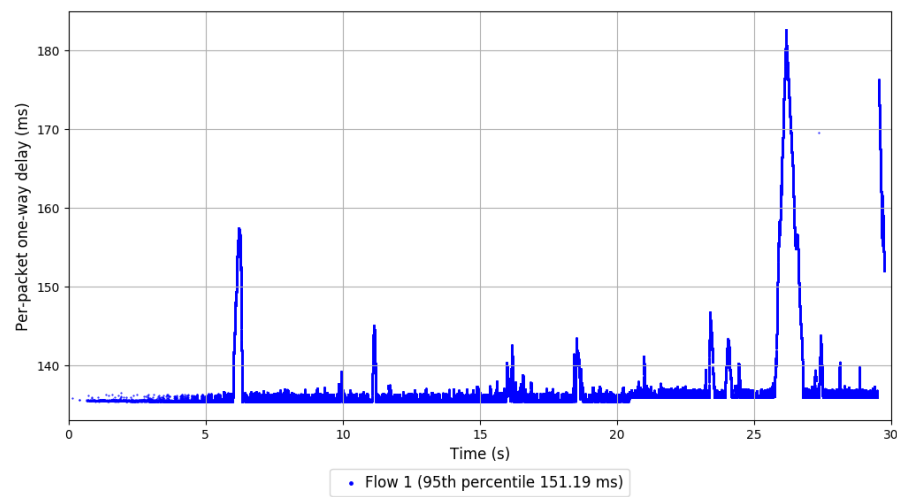
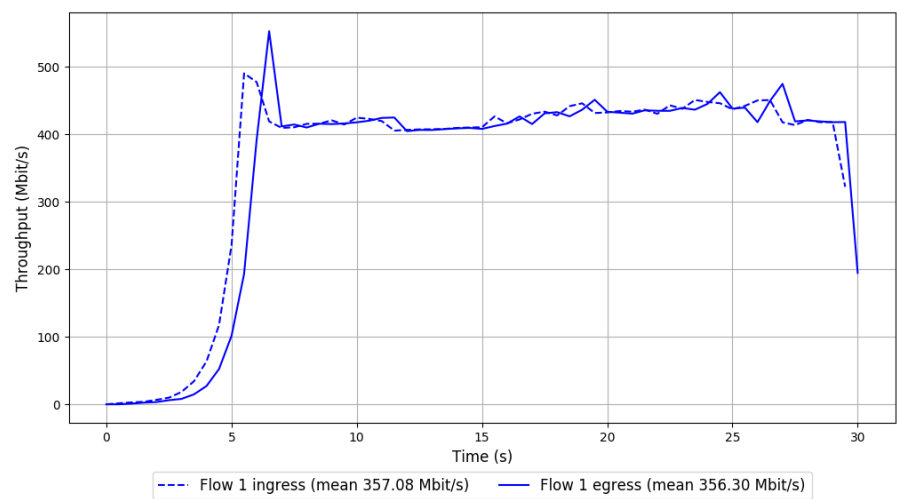
-- Flow 1:

Average throughput: 356.30 Mbit/s

95th percentile per-packet one-way delay: 151.186 ms

Loss rate: 1.13%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-01 01:38:39

End at: 2018-07-01 01:39:09

Local clock offset: 0.311 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-07-01 03:17:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 268.39 Mbit/s

95th percentile per-packet one-way delay: 179.852 ms

Loss rate: 2.49%

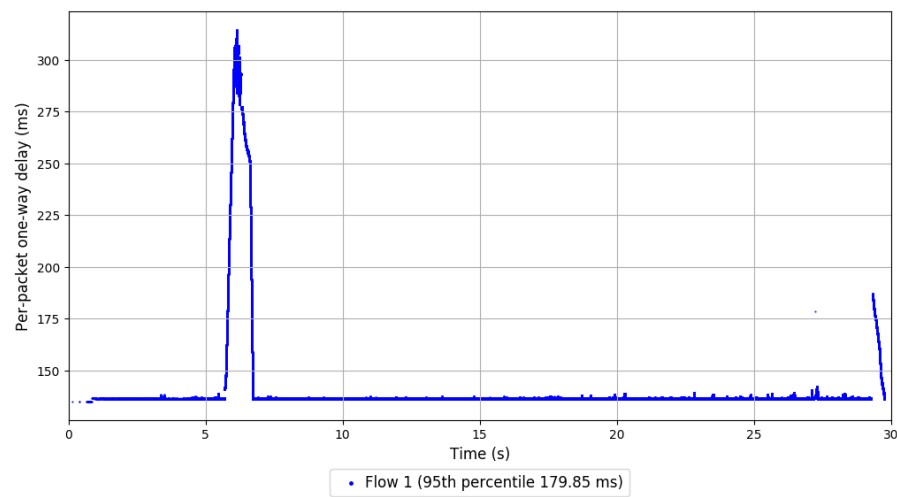
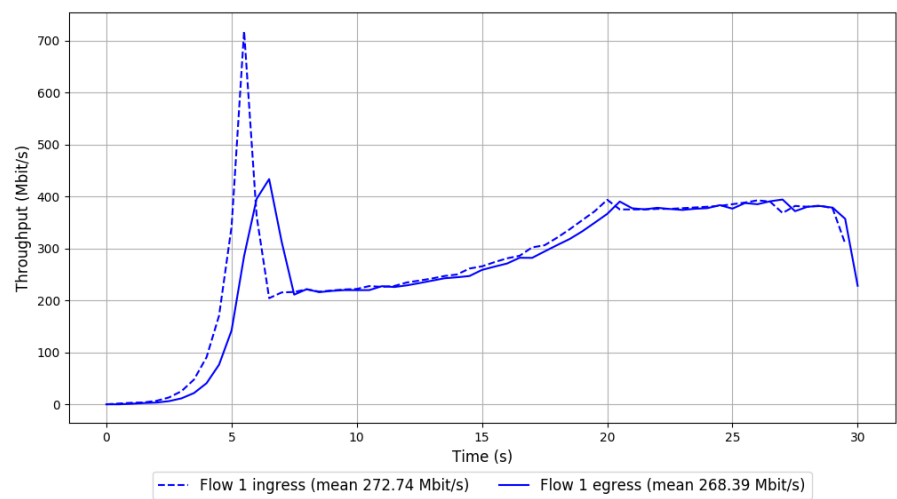
-- Flow 1:

Average throughput: 268.39 Mbit/s

95th percentile per-packet one-way delay: 179.852 ms

Loss rate: 2.49%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-01 02:00:43

End at: 2018-07-01 02:01:13

Local clock offset: 0.378 ms

Remote clock offset: 0.122 ms

Below is generated by plot.py at 2018-07-01 03:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 317.04 Mbit/s

95th percentile per-packet one-way delay: 180.533 ms

Loss rate: 1.58%

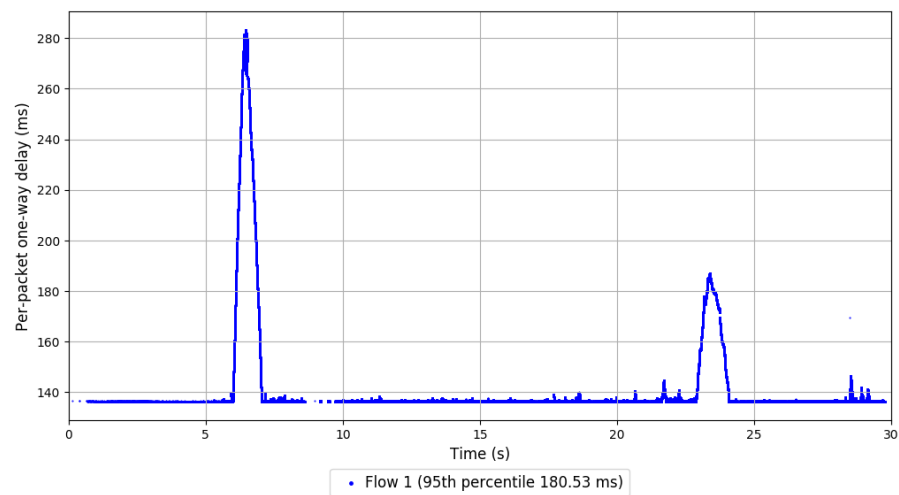
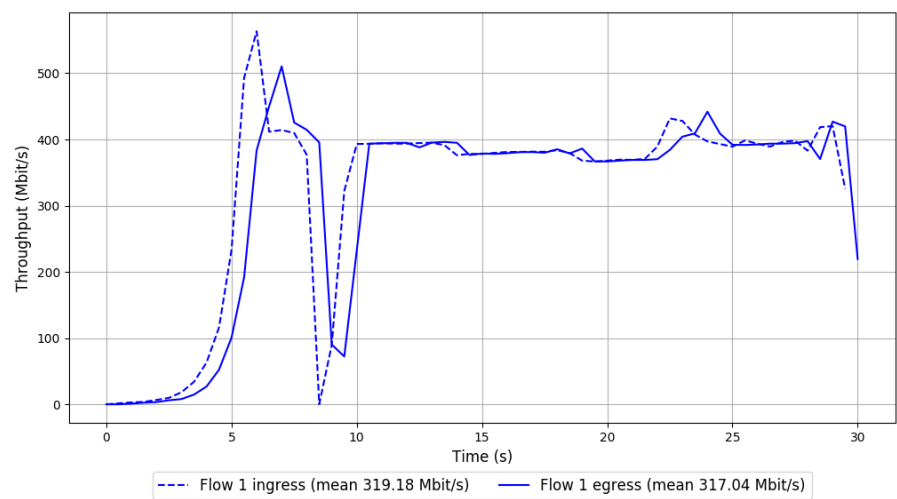
-- Flow 1:

Average throughput: 317.04 Mbit/s

95th percentile per-packet one-way delay: 180.533 ms

Loss rate: 1.58%

Run 10: Report of PCC-Vivace — Data Link

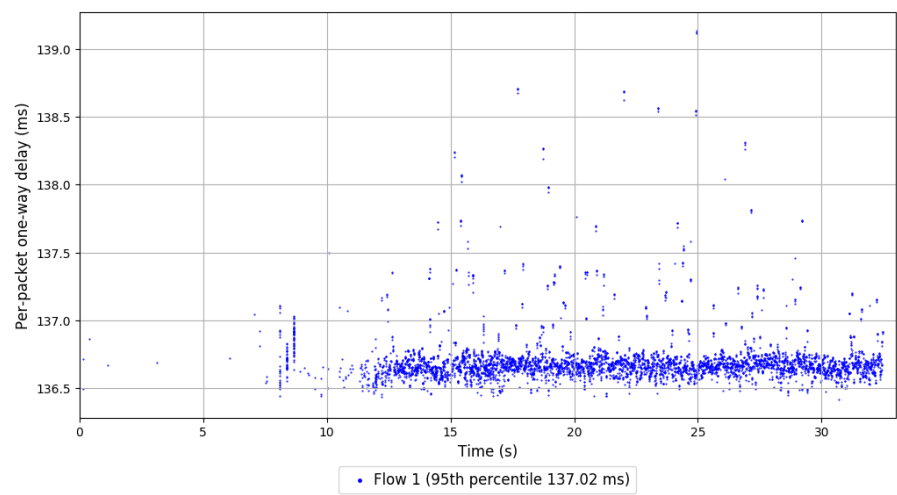
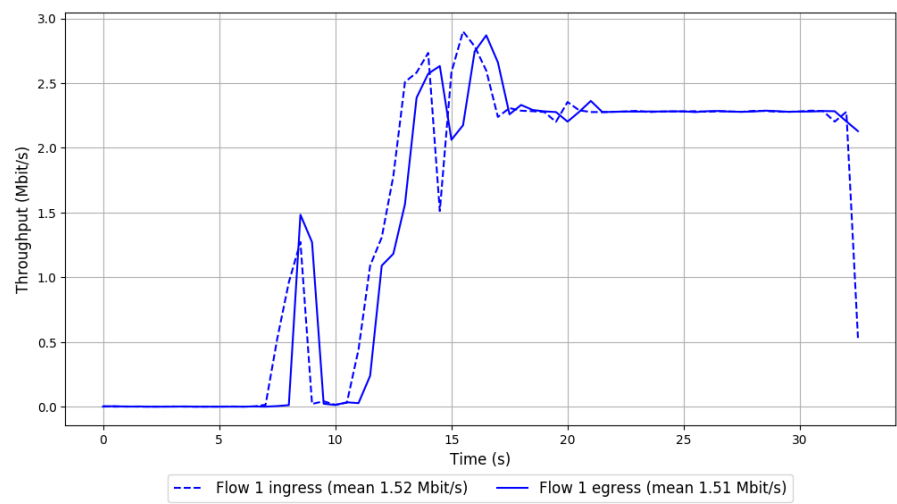


```
Run 1: Statistics of WebRTC media

Start at: 2018-06-30 22:45:18
End at: 2018-06-30 22:45:48
Local clock offset: 0.135 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2018-07-01 03:17:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.51 Mbit/s
95th percentile per-packet one-way delay: 137.019 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 1.51 Mbit/s
95th percentile per-packet one-way delay: 137.019 ms
Loss rate: 1.30%
```

Run 1: Report of WebRTC media — Data Link

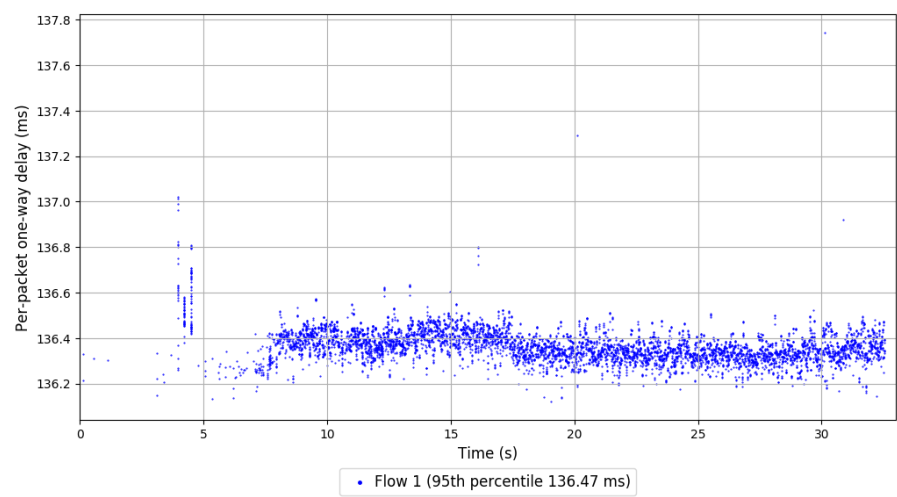
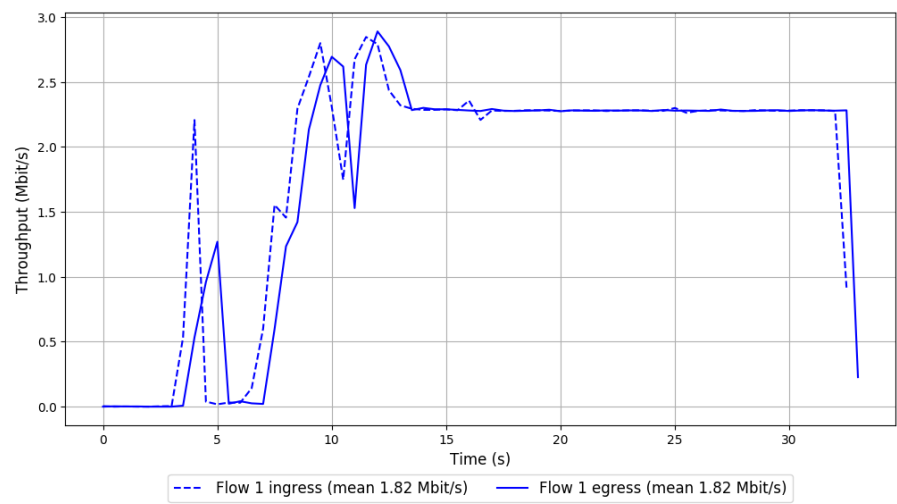


Run 2: Statistics of WebRTC media

Start at: 2018-06-30 23:07:05
End at: 2018-06-30 23:07:35
Local clock offset: 0.074 ms
Remote clock offset: -0.369 ms

Below is generated by plot.py at 2018-07-01 03:17:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 136.469 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 136.469 ms
Loss rate: 1.09%

Run 2: Report of WebRTC media — Data Link

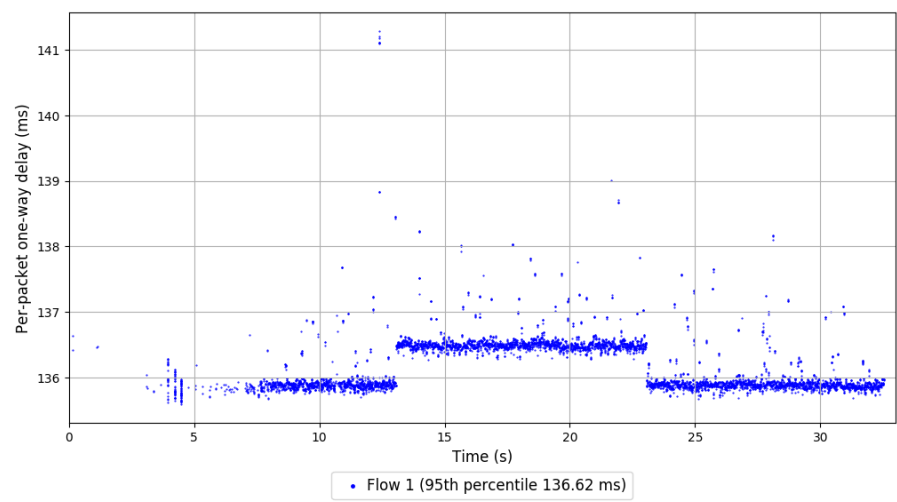
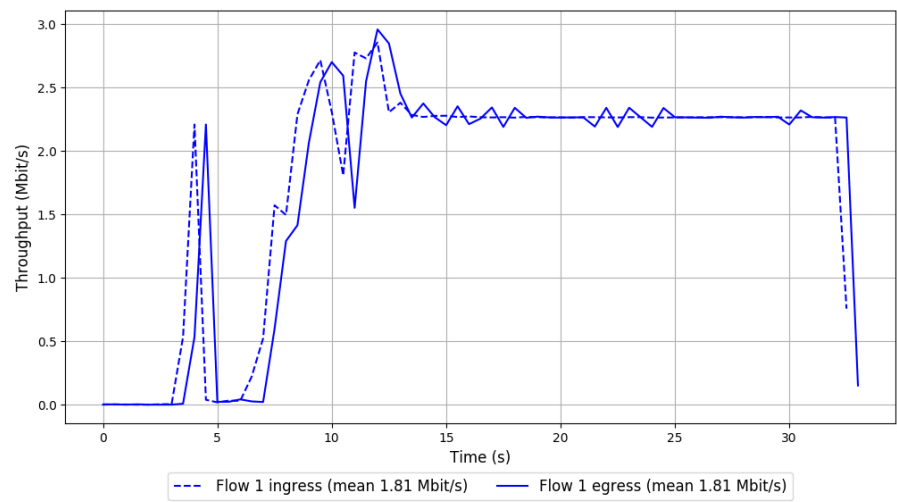


Run 3: Statistics of WebRTC media

Start at: 2018-06-30 23:29:09
End at: 2018-06-30 23:29:39
Local clock offset: -0.164 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-07-01 03:17:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 136.620 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 136.620 ms
Loss rate: 1.02%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-06-30 23:51:00

End at: 2018-06-30 23:51:30

Local clock offset: 0.335 ms

Remote clock offset: 0.116 ms

Below is generated by plot.py at 2018-07-01 03:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 136.429 ms

Loss rate: 1.09%

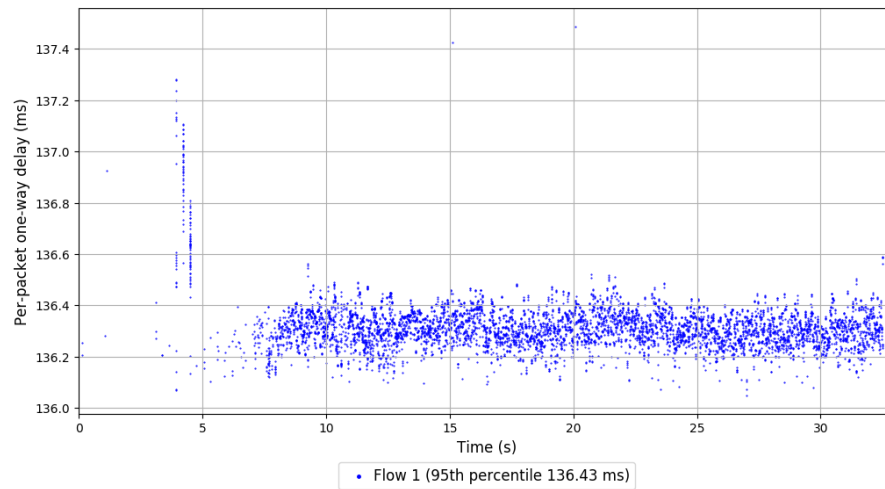
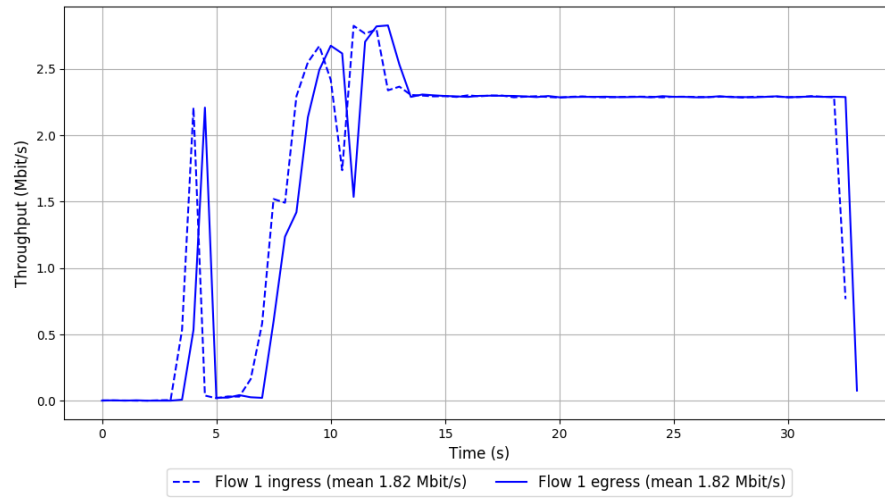
-- Flow 1:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 136.429 ms

Loss rate: 1.09%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-07-01 00:12:49

End at: 2018-07-01 00:13:19

Local clock offset: 0.42 ms

Remote clock offset: 0.156 ms

Below is generated by plot.py at 2018-07-01 03:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 136.641 ms

Loss rate: 1.09%

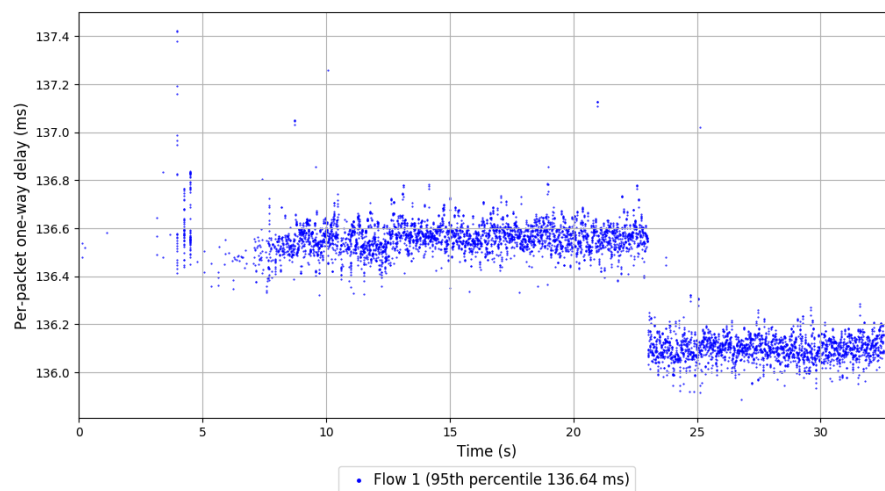
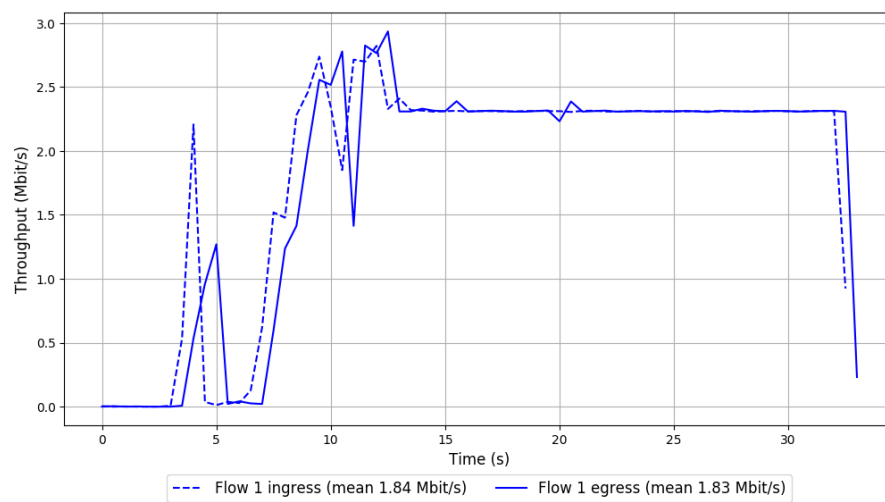
-- Flow 1:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 136.641 ms

Loss rate: 1.09%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-01 00:34:52

End at: 2018-07-01 00:35:22

Local clock offset: 0.351 ms

Remote clock offset: 0.107 ms

Below is generated by plot.py at 2018-07-01 03:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 135.959 ms

Loss rate: 1.10%

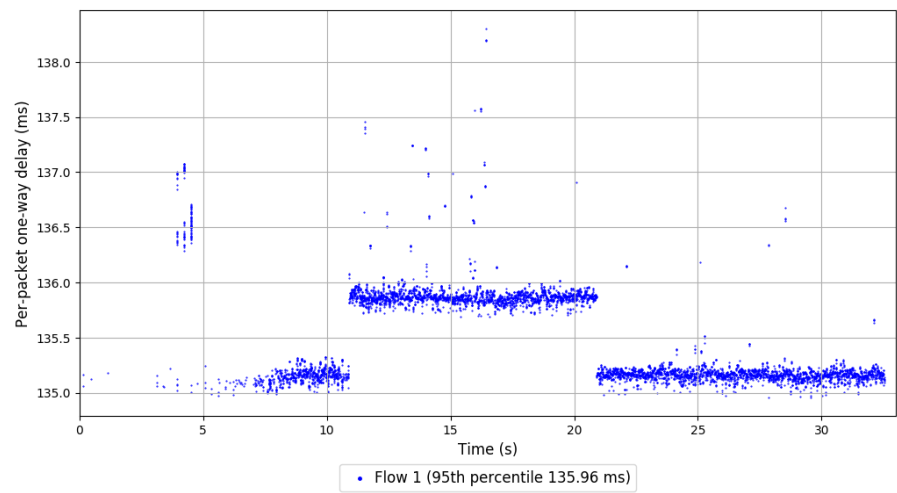
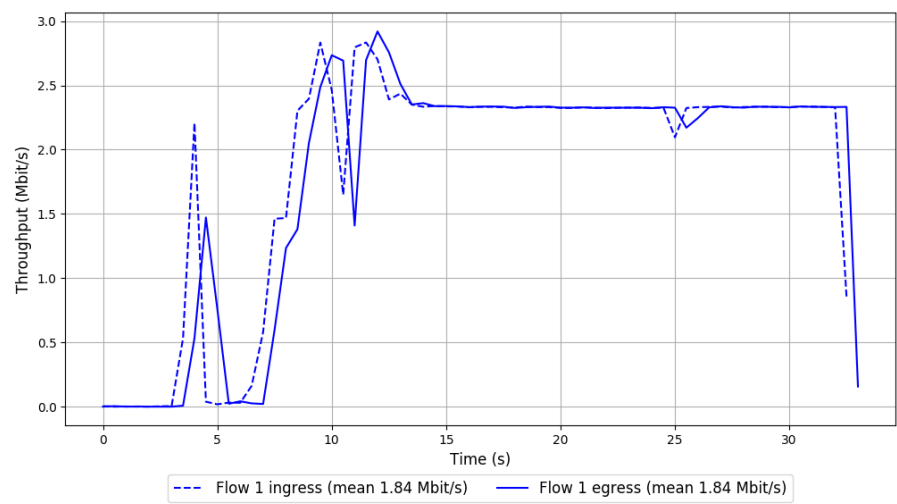
-- Flow 1:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 135.959 ms

Loss rate: 1.10%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-01 00:56:50

End at: 2018-07-01 00:57:20

Local clock offset: 0.221 ms

Remote clock offset: 0.064 ms

Below is generated by plot.py at 2018-07-01 03:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 136.048 ms

Loss rate: 1.10%

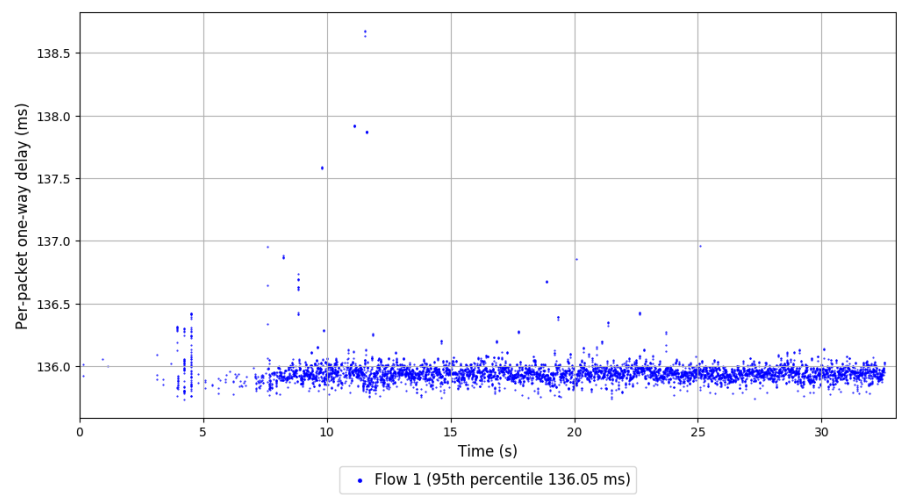
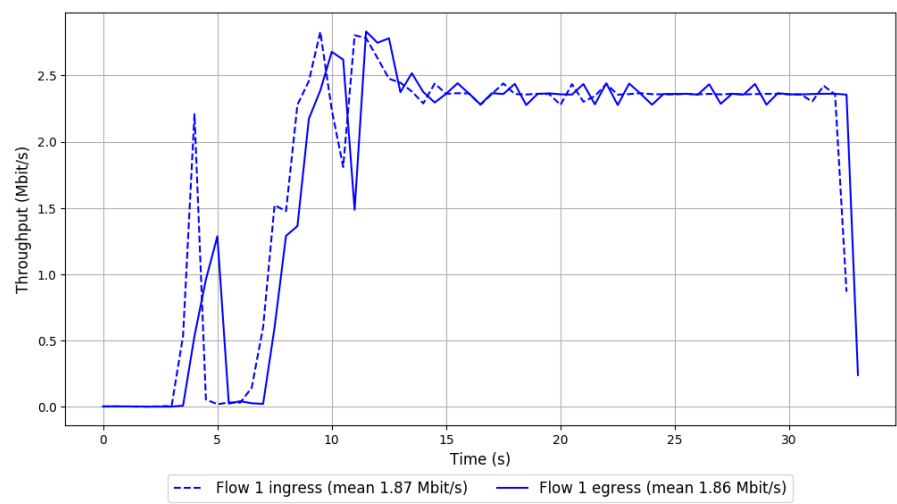
-- Flow 1:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 136.048 ms

Loss rate: 1.10%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-01 01:19:08

End at: 2018-07-01 01:19:38

Local clock offset: 0.358 ms

Remote clock offset: 0.444 ms

Below is generated by plot.py at 2018-07-01 03:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 135.732 ms

Loss rate: 1.03%

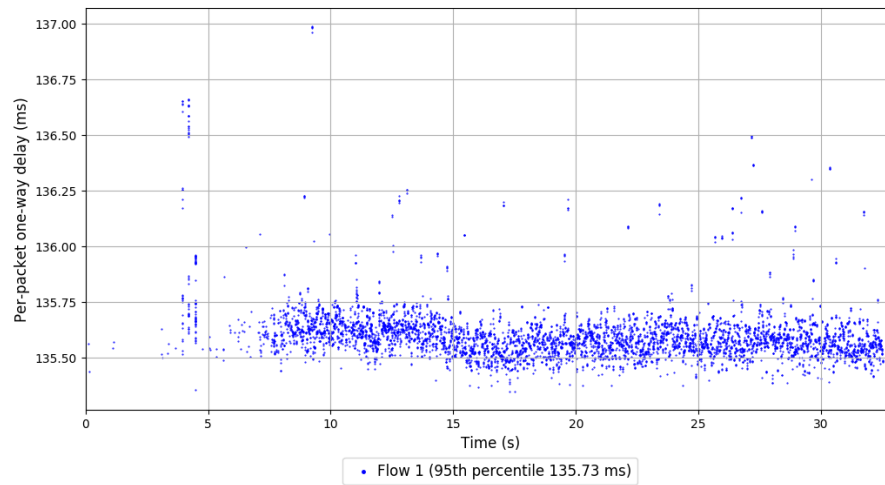
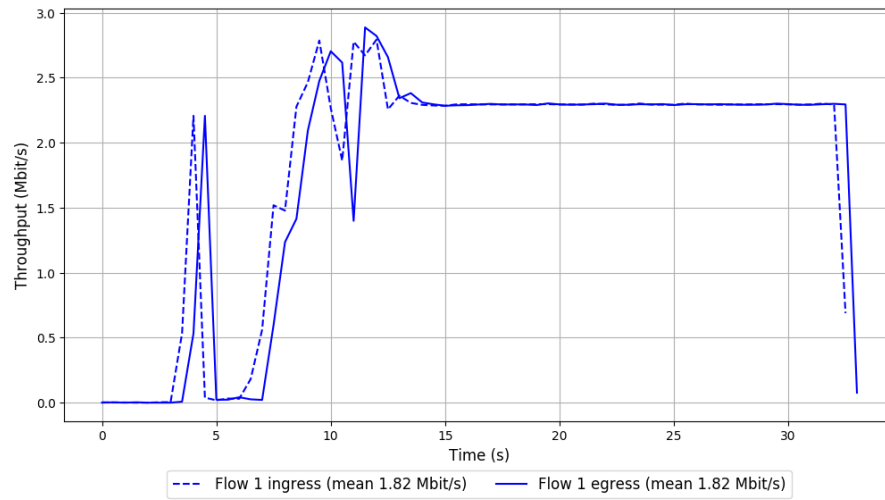
-- Flow 1:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 135.732 ms

Loss rate: 1.03%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-01 01:41:22

End at: 2018-07-01 01:41:52

Local clock offset: 0.349 ms

Remote clock offset: 0.094 ms

Below is generated by plot.py at 2018-07-01 03:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 136.423 ms

Loss rate: 1.03%

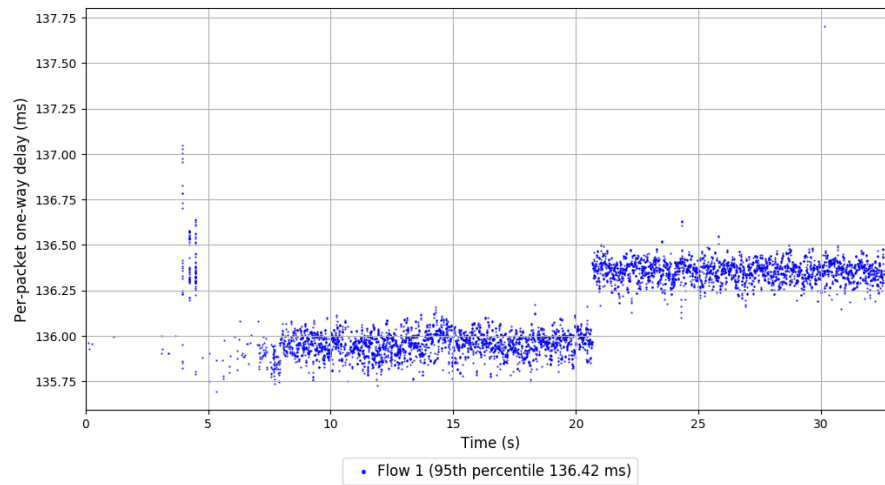
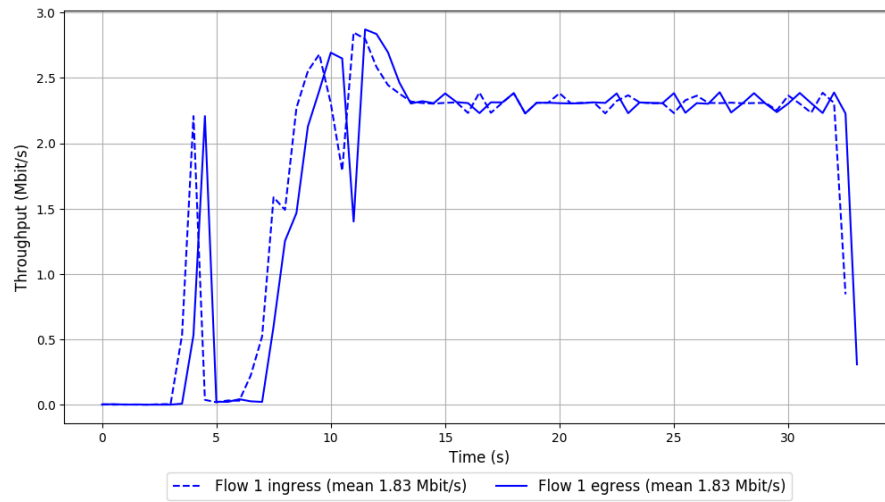
-- Flow 1:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 136.423 ms

Loss rate: 1.03%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-01 02:03:29

End at: 2018-07-01 02:03:59

Local clock offset: 0.388 ms

Remote clock offset: 0.081 ms

Below is generated by plot.py at 2018-07-01 03:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 136.408 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 136.408 ms

Loss rate: 1.09%

Run 10: Report of WebRTC media — Data Link

