

Pantheon Report

Generated at 2018-07-05 05:02:00 (UTC).

Data path: GCE Tokyo Ethernet (*remote*) → GCE Iowa Ethernet (*local*).

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

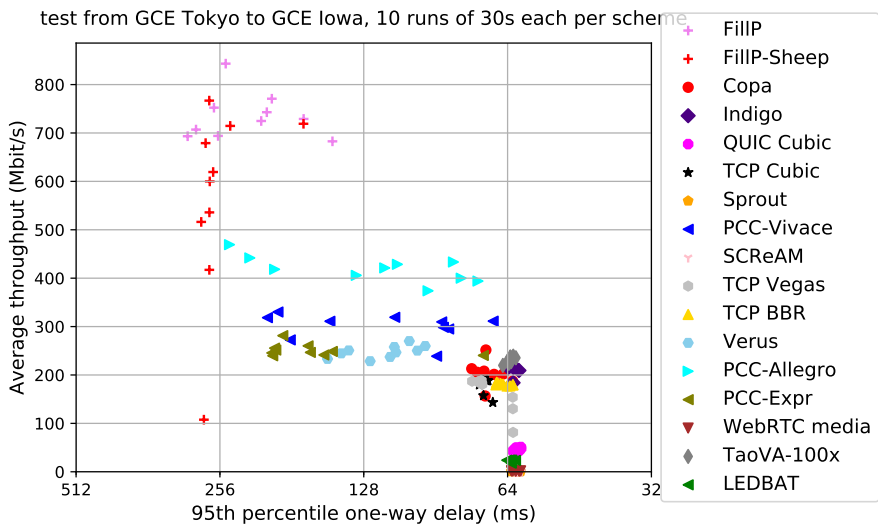
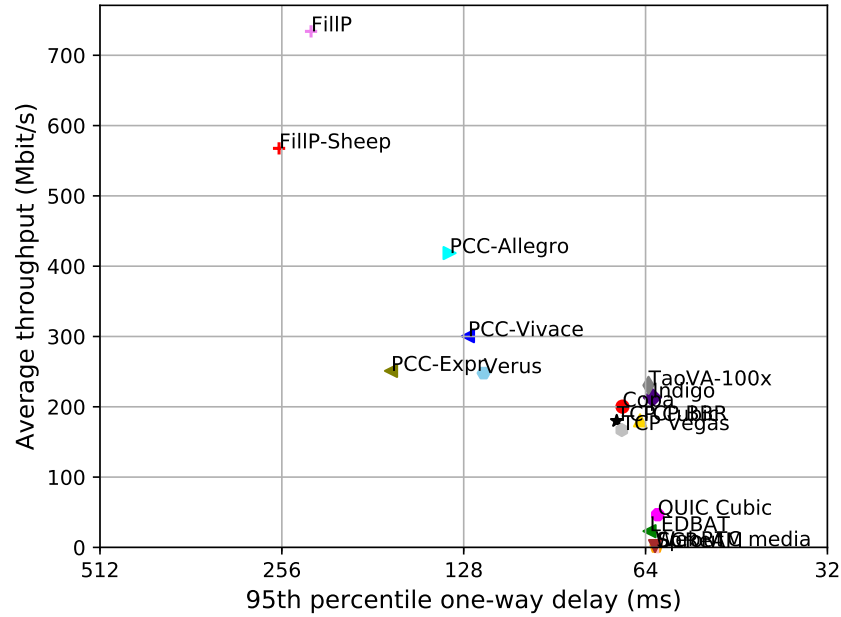
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

Git summary:

```
branch: master @ 9250dbeec7fb57193cdff1ba8c440b4e16ab30f0
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ 37162fe9af85249aeccac061c93e75640ef710b5
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-quick @ 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 Tokyo to GCE Iowa, 10 runs of 30s each per scheme
(mean of all runs by 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	180.72	65.35	0.43
Copa	10	200.22	69.89	0.28
TCP Cubic	10	179.91	71.43	0.45
FillP	10	733.99	229.04	4.89
FillP-Sheep	10	567.58	258.73	10.46
Indigo	10	213.14	62.36	0.41
LEDBAT	10	23.08	63.04	0.81
PCC-Allegro	10	418.65	135.07	1.00
PCC-Expr	10	251.05	168.86	1.54
QUIC Cubic	9	46.53	61.11	0.65
SCReAM	10	0.22	61.12	0.40
Sprout	10	0.77	61.45	0.38
TaoVA-100x	10	230.52	63.29	0.41
TCP Vegas	10	166.93	70.07	0.45
Verus	10	247.91	118.64	1.84
PCC-Vivace	10	300.42	125.95	0.64
WebRTC media	10	1.87	61.72	0.49

Run 1: Statistics of TCP BBR

Start at: 2018-07-04 23:21:58

End at: 2018-07-04 23:22:28

Local clock offset: -0.153 ms

Remote clock offset: -0.041 ms

Below is generated by plot.py at 2018-07-05 03:04:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.30 Mbit/s

95th percentile per-packet one-way delay: 67.060 ms

Loss rate: 0.42%

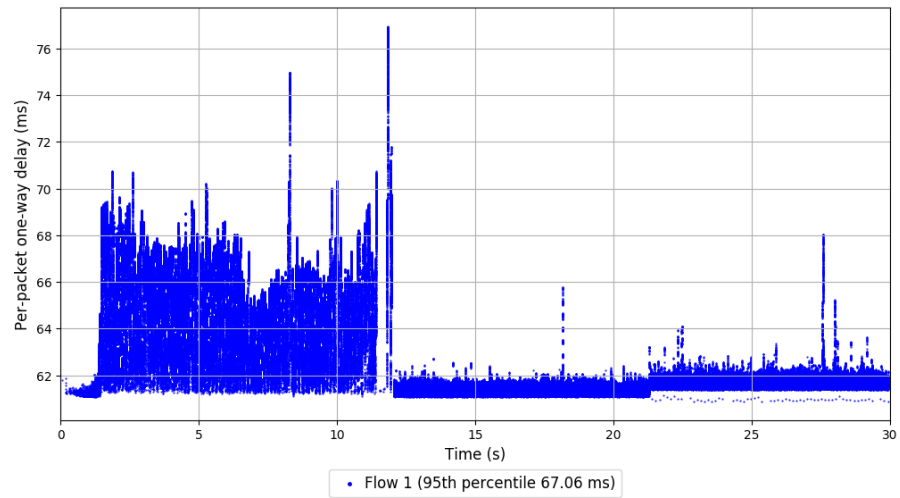
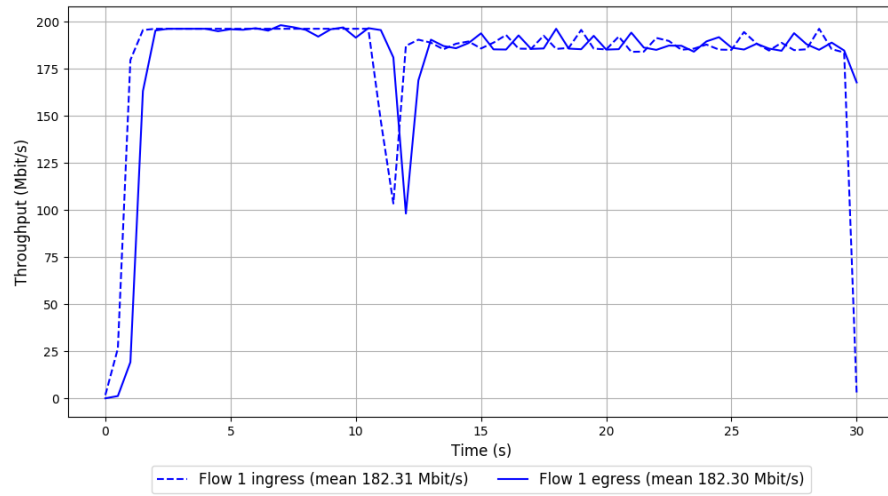
-- Flow 1:

Average throughput: 182.30 Mbit/s

95th percentile per-packet one-way delay: 67.060 ms

Loss rate: 0.42%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-04 23:44:25

End at: 2018-07-04 23:44:55

Local clock offset: -0.222 ms

Remote clock offset: 0.988 ms

Below is generated by plot.py at 2018-07-05 03:04:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.06 Mbit/s

95th percentile per-packet one-way delay: 67.431 ms

Loss rate: 0.41%

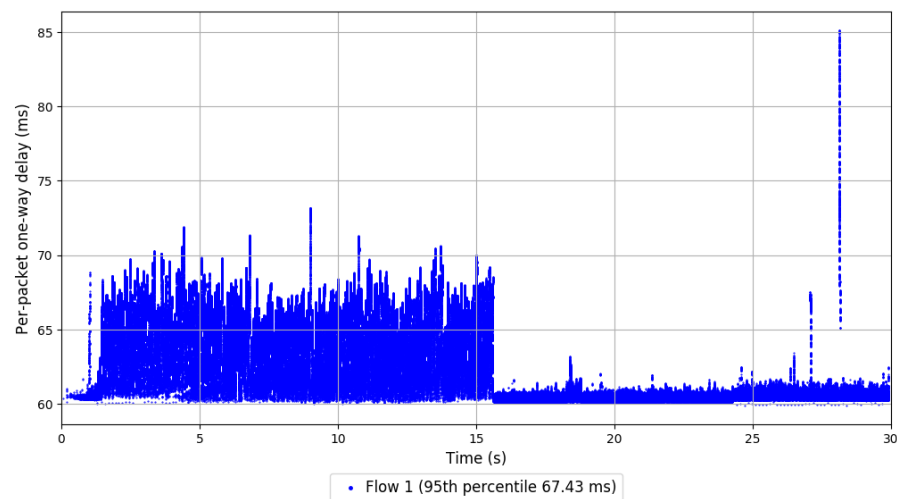
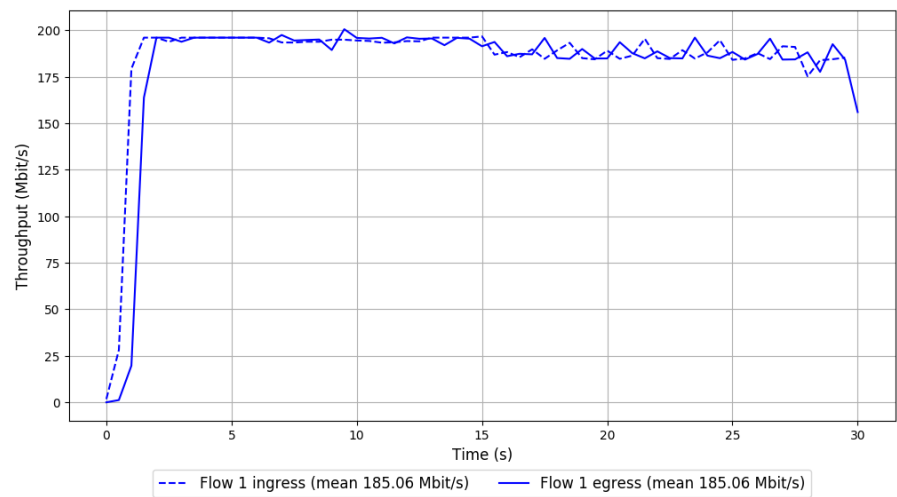
-- Flow 1:

Average throughput: 185.06 Mbit/s

95th percentile per-packet one-way delay: 67.431 ms

Loss rate: 0.41%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-05 00:06:39

End at: 2018-07-05 00:07:09

Local clock offset: -0.241 ms

Remote clock offset: 0.147 ms

Below is generated by plot.py at 2018-07-05 03:04:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.30 Mbit/s

95th percentile per-packet one-way delay: 62.383 ms

Loss rate: 0.42%

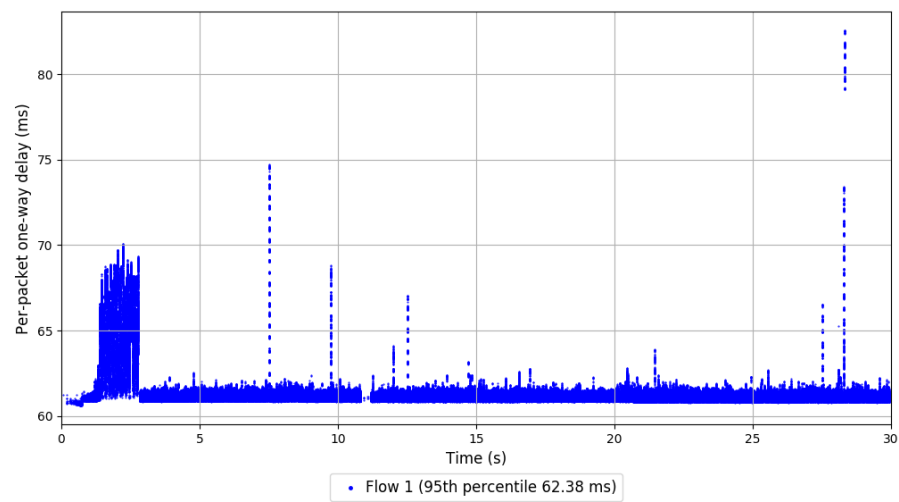
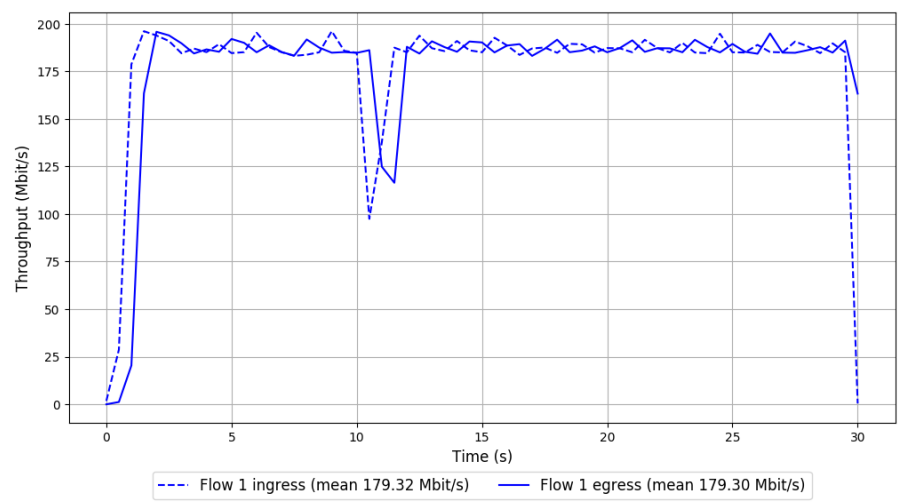
-- Flow 1:

Average throughput: 179.30 Mbit/s

95th percentile per-packet one-way delay: 62.383 ms

Loss rate: 0.42%

Run 3: Report of TCP BBR — Data Link

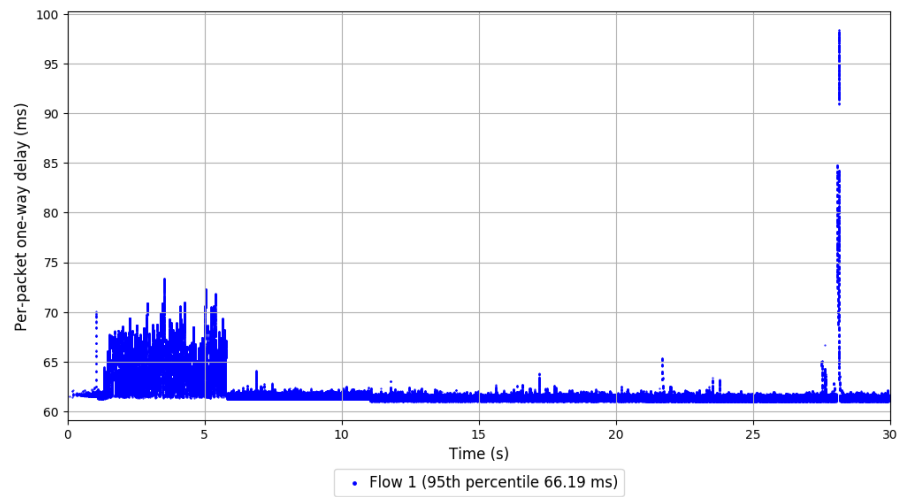
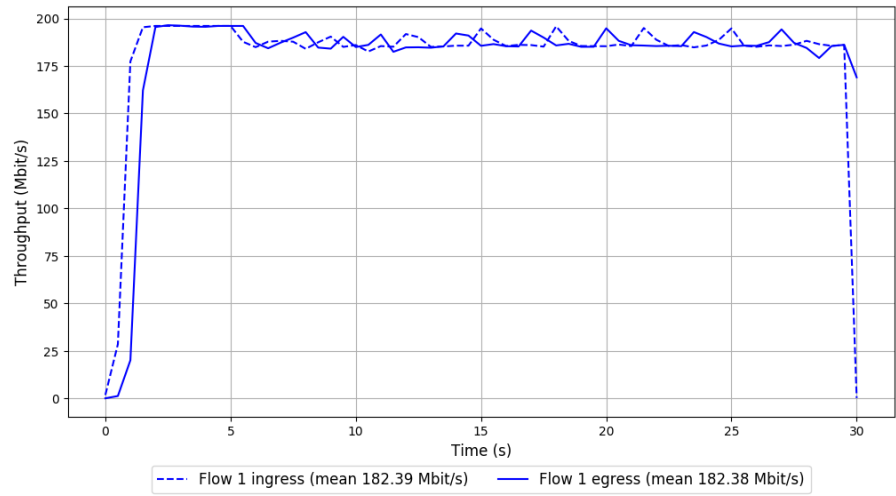


Run 4: Statistics of TCP BBR

Start at: 2018-07-05 00:28:49
End at: 2018-07-05 00:29:19
Local clock offset: -0.236 ms
Remote clock offset: -0.242 ms

Below is generated by plot.py at 2018-07-05 03:04:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 182.38 Mbit/s
95th percentile per-packet one-way delay: 66.193 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 182.38 Mbit/s
95th percentile per-packet one-way delay: 66.193 ms
Loss rate: 0.41%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-05 00:51:09

End at: 2018-07-05 00:51:39

Local clock offset: -0.267 ms

Remote clock offset: 1.331 ms

Below is generated by plot.py at 2018-07-05 03:04:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.98 Mbit/s

95th percentile per-packet one-way delay: 62.376 ms

Loss rate: 0.45%

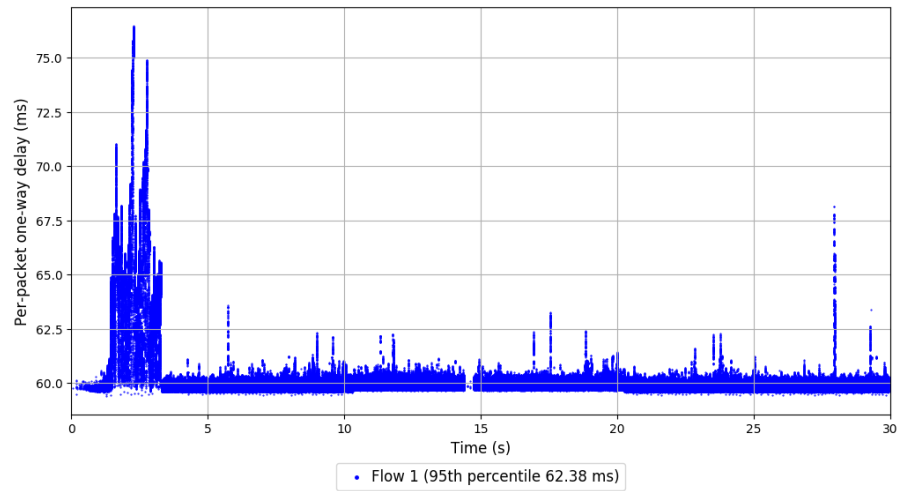
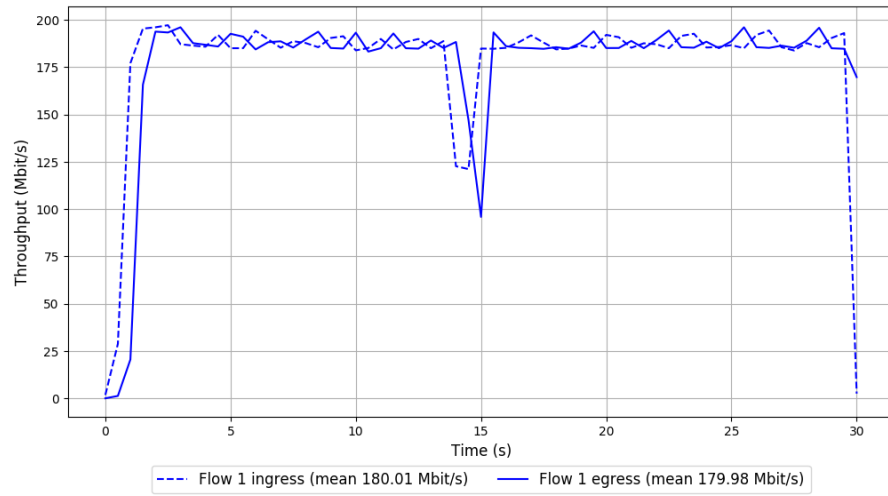
-- Flow 1:

Average throughput: 179.98 Mbit/s

95th percentile per-packet one-way delay: 62.376 ms

Loss rate: 0.45%

Run 5: Report of TCP BBR — Data Link

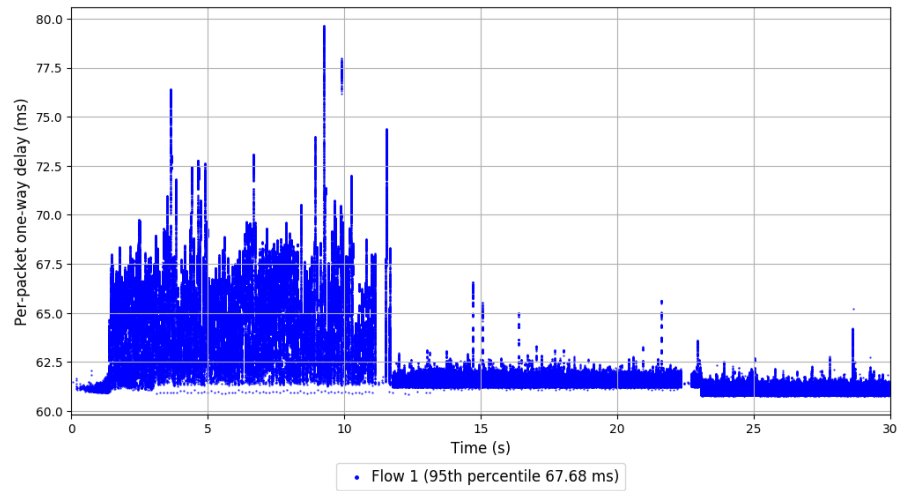
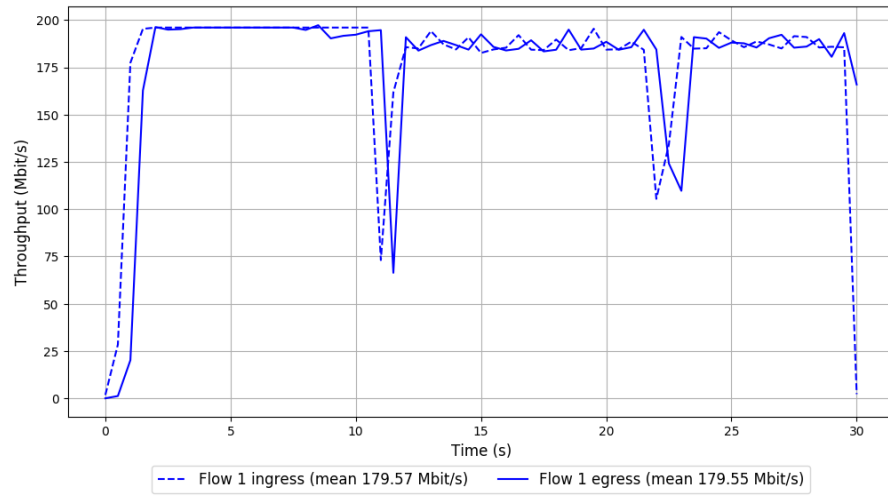


Run 6: Statistics of TCP BBR

Start at: 2018-07-05 01:13:37
End at: 2018-07-05 01:14:07
Local clock offset: -0.362 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-07-05 03:04:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 179.55 Mbit/s
95th percentile per-packet one-way delay: 67.684 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 179.55 Mbit/s
95th percentile per-packet one-way delay: 67.684 ms
Loss rate: 0.42%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

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

End at: 2018-07-05 01:36:31

Local clock offset: -0.387 ms

Remote clock offset: 1.255 ms

Below is generated by plot.py at 2018-07-05 03:04:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.21 Mbit/s

95th percentile per-packet one-way delay: 64.191 ms

Loss rate: 0.43%

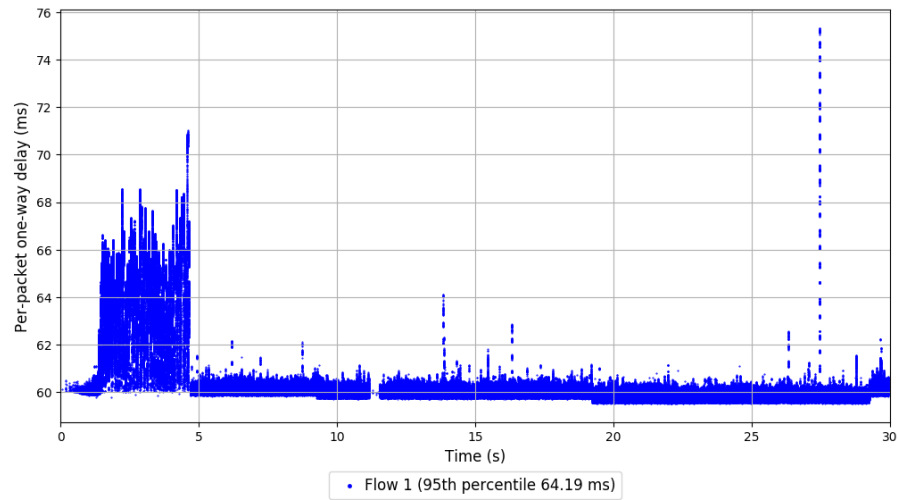
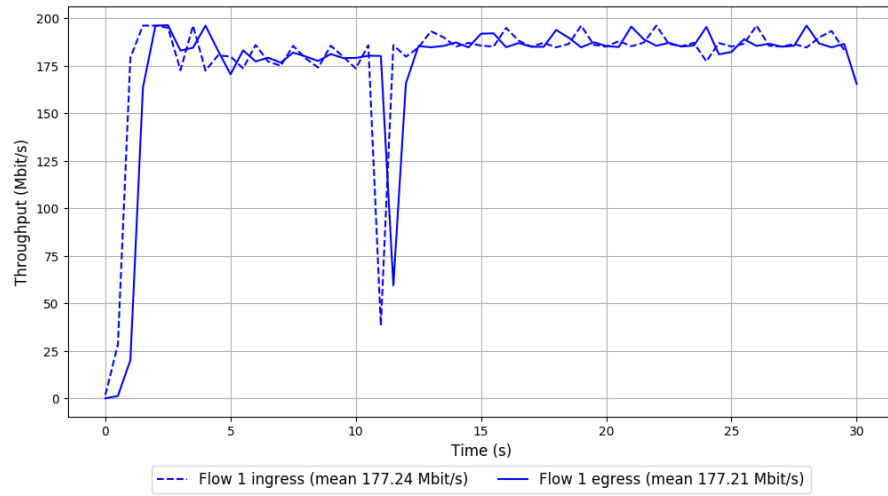
-- Flow 1:

Average throughput: 177.21 Mbit/s

95th percentile per-packet one-way delay: 64.191 ms

Loss rate: 0.43%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-05 01:58:21

End at: 2018-07-05 01:58:51

Local clock offset: -0.371 ms

Remote clock offset: 0.292 ms

Below is generated by plot.py at 2018-07-05 03:04:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.98 Mbit/s

95th percentile per-packet one-way delay: 67.502 ms

Loss rate: 0.45%

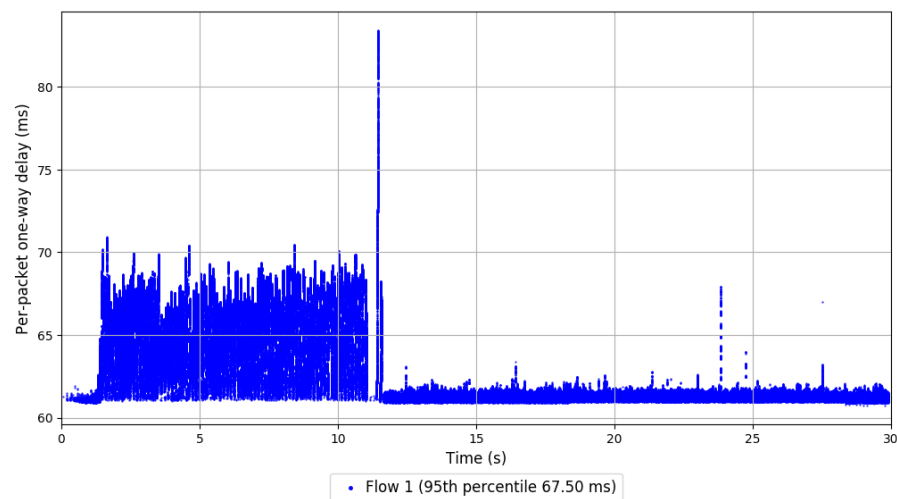
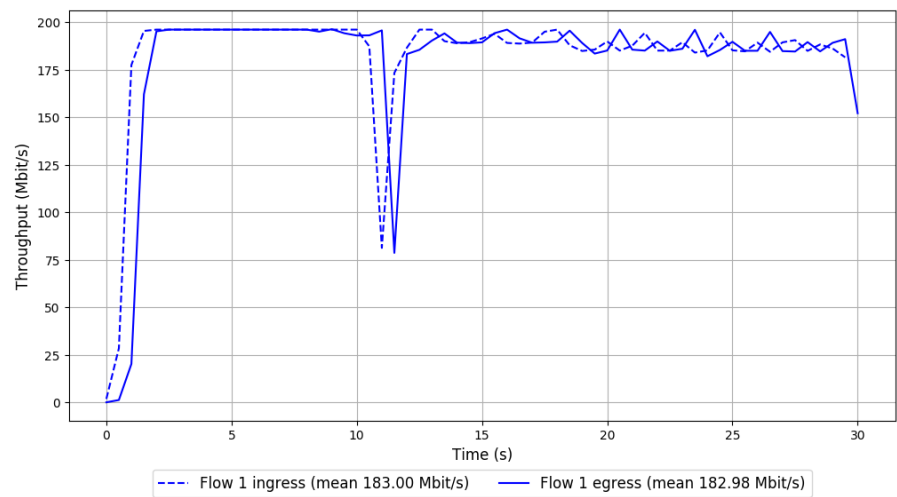
-- Flow 1:

Average throughput: 182.98 Mbit/s

95th percentile per-packet one-way delay: 67.502 ms

Loss rate: 0.45%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-05 02:20:17

End at: 2018-07-05 02:20:47

Local clock offset: -0.379 ms

Remote clock offset: 0.294 ms

Below is generated by plot.py at 2018-07-05 03:07:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.00 Mbit/s

95th percentile per-packet one-way delay: 65.441 ms

Loss rate: 0.43%

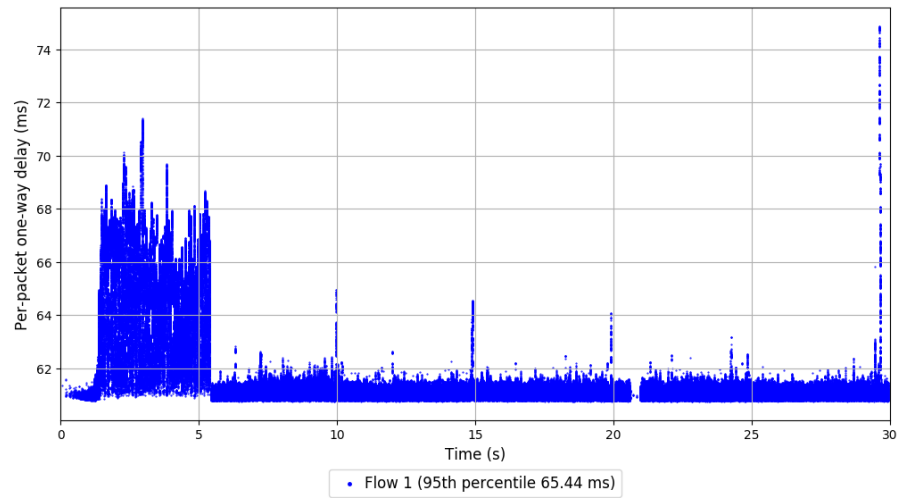
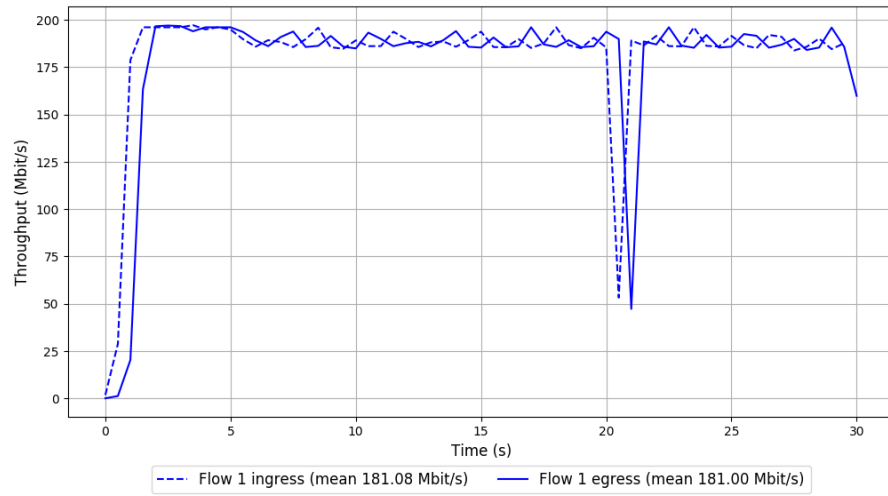
-- Flow 1:

Average throughput: 181.00 Mbit/s

95th percentile per-packet one-way delay: 65.441 ms

Loss rate: 0.43%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-05 02:42:47

End at: 2018-07-05 02:43:17

Local clock offset: -0.412 ms

Remote clock offset: 0.22 ms

Below is generated by plot.py at 2018-07-05 03:07:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.40 Mbit/s

95th percentile per-packet one-way delay: 63.285 ms

Loss rate: 0.45%

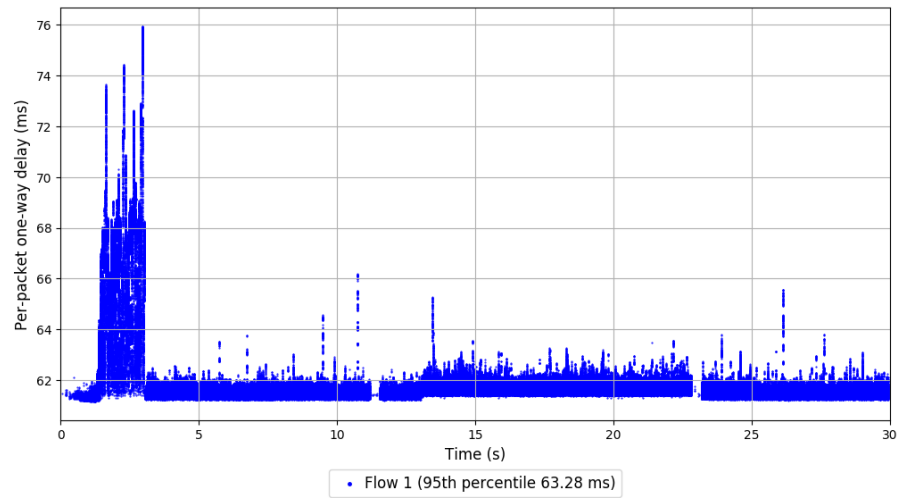
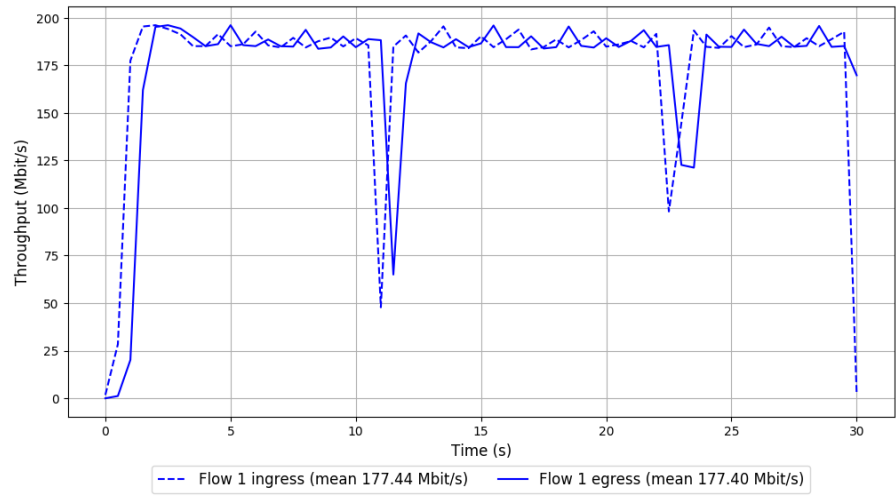
-- Flow 1:

Average throughput: 177.40 Mbit/s

95th percentile per-packet one-way delay: 63.285 ms

Loss rate: 0.45%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-07-04 23:05:51

End at: 2018-07-04 23:06:21

Local clock offset: -0.168 ms

Remote clock offset: 0.143 ms

Below is generated by plot.py at 2018-07-05 03:11:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.91 Mbit/s

95th percentile per-packet one-way delay: 71.686 ms

Loss rate: 0.24%

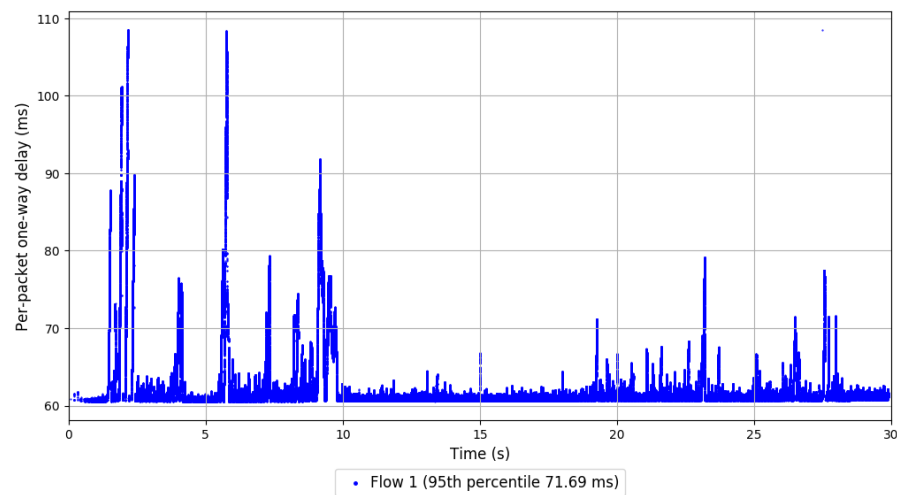
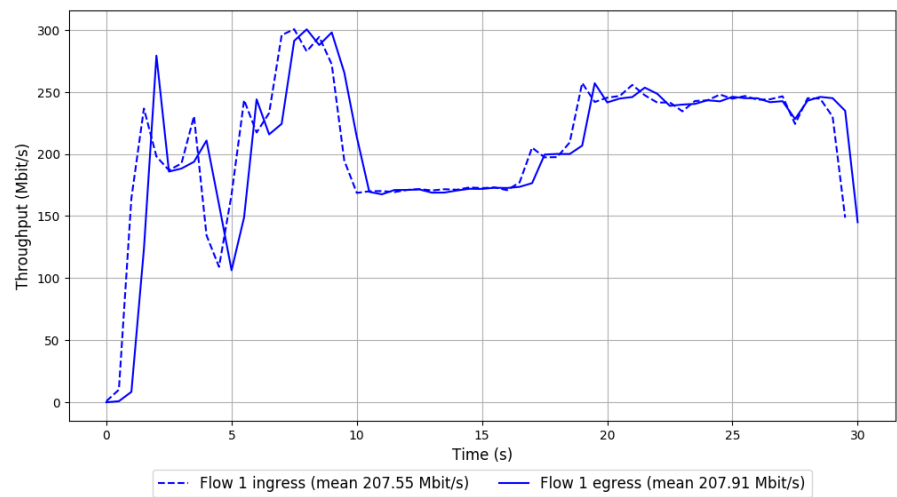
-- Flow 1:

Average throughput: 207.91 Mbit/s

95th percentile per-packet one-way delay: 71.686 ms

Loss rate: 0.24%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-07-04 23:28:09

End at: 2018-07-04 23:28:39

Local clock offset: -0.189 ms

Remote clock offset: 0.096 ms

Below is generated by plot.py at 2018-07-05 03:11:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.24 Mbit/s

95th percentile per-packet one-way delay: 65.312 ms

Loss rate: 0.33%

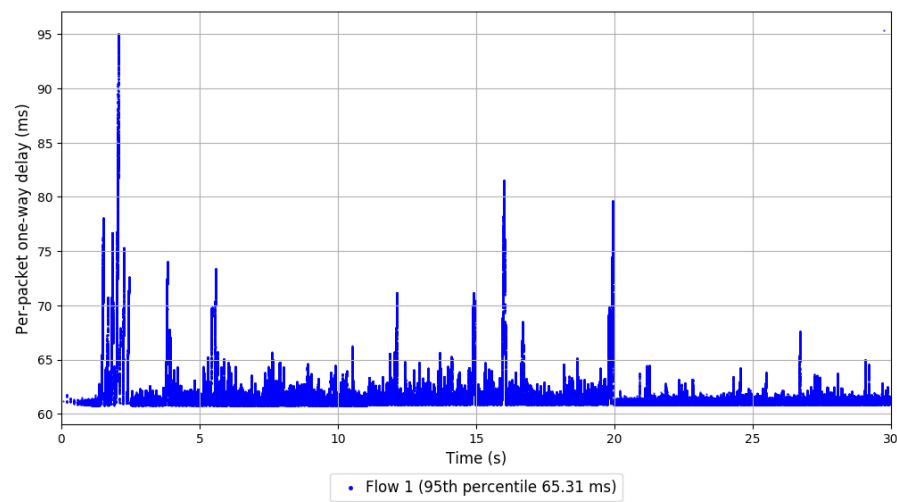
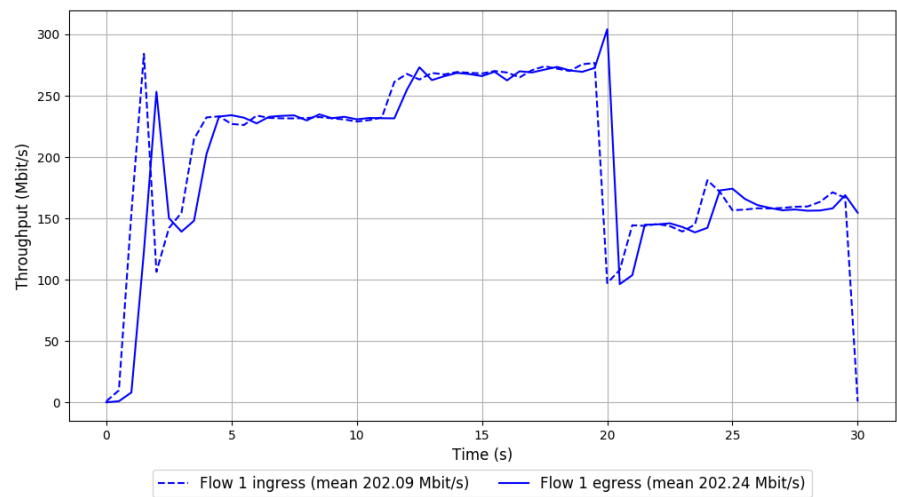
-- Flow 1:

Average throughput: 202.24 Mbit/s

95th percentile per-packet one-way delay: 65.312 ms

Loss rate: 0.33%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-07-04 23:50:35

End at: 2018-07-04 23:51:05

Local clock offset: -0.228 ms

Remote clock offset: -0.11 ms

Below is generated by plot.py at 2018-07-05 03:12:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.93 Mbit/s

95th percentile per-packet one-way delay: 76.077 ms

Loss rate: 0.24%

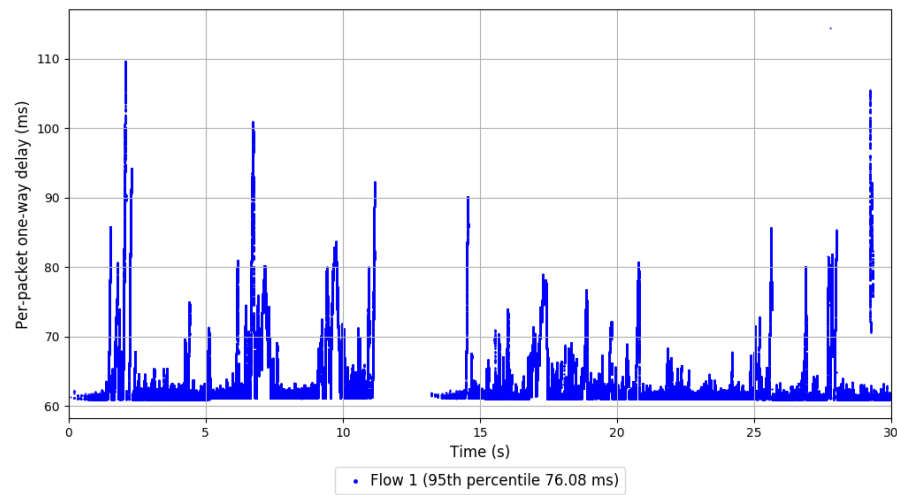
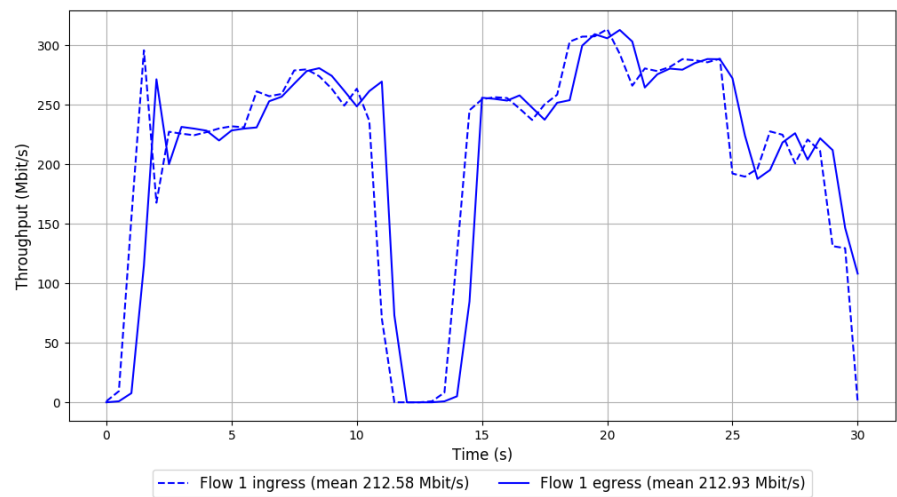
-- Flow 1:

Average throughput: 212.93 Mbit/s

95th percentile per-packet one-way delay: 76.077 ms

Loss rate: 0.24%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-07-05 00:12:49

End at: 2018-07-05 00:13:19

Local clock offset: -0.296 ms

Remote clock offset: 1.243 ms

Below is generated by plot.py at 2018-07-05 03:12:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.20 Mbit/s

95th percentile per-packet one-way delay: 62.446 ms

Loss rate: 0.31%

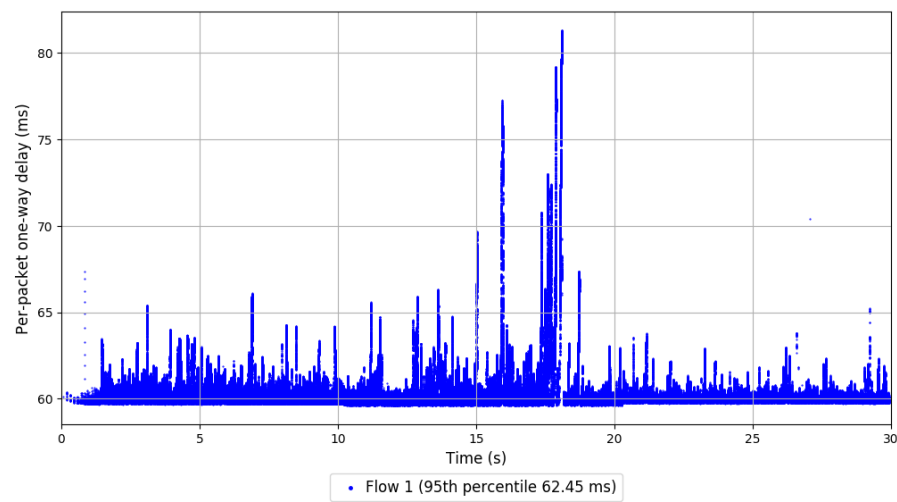
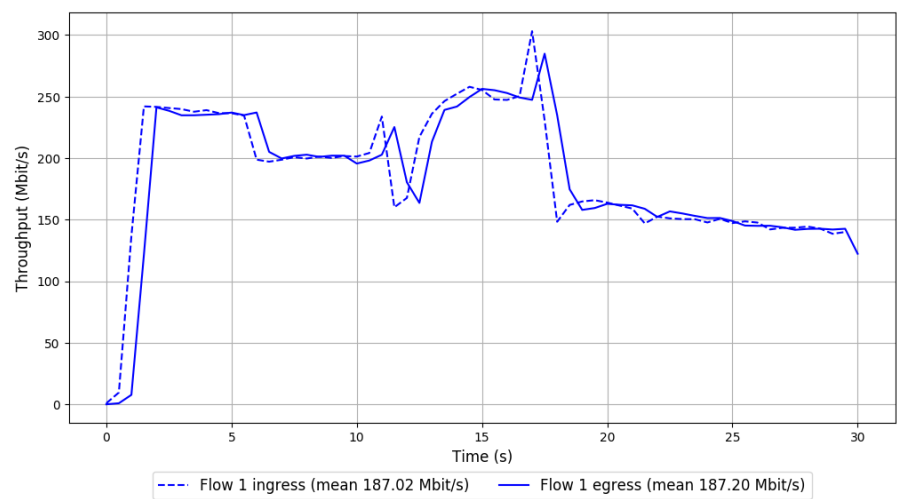
-- Flow 1:

Average throughput: 187.20 Mbit/s

95th percentile per-packet one-way delay: 62.446 ms

Loss rate: 0.31%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-07-05 00:34:56

End at: 2018-07-05 00:35:26

Local clock offset: -0.298 ms

Remote clock offset: 0.111 ms

Below is generated by plot.py at 2018-07-05 03:13:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 251.66 Mbit/s

95th percentile per-packet one-way delay: 71.057 ms

Loss rate: 0.38%

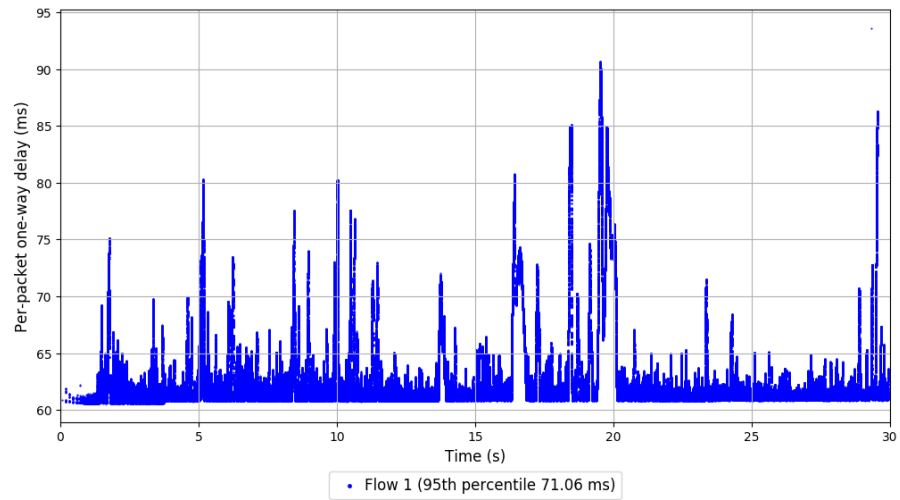
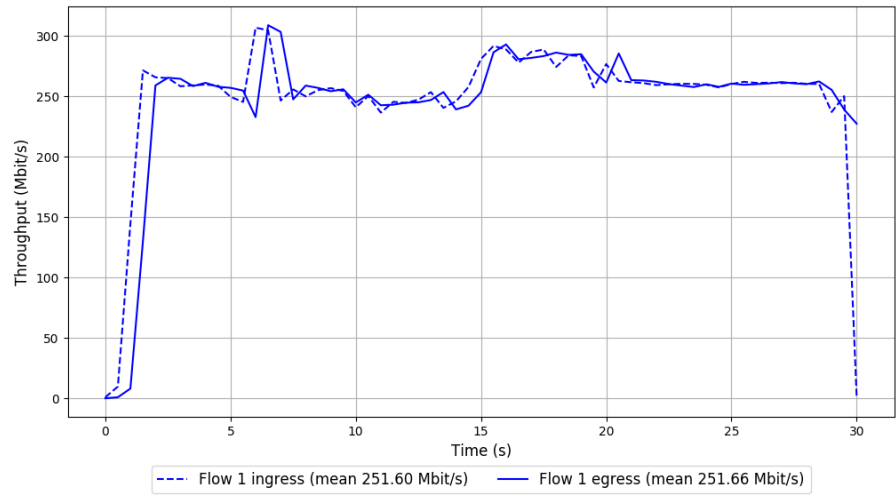
-- Flow 1:

Average throughput: 251.66 Mbit/s

95th percentile per-packet one-way delay: 71.057 ms

Loss rate: 0.38%

Run 5: Report of Copa — Data Link

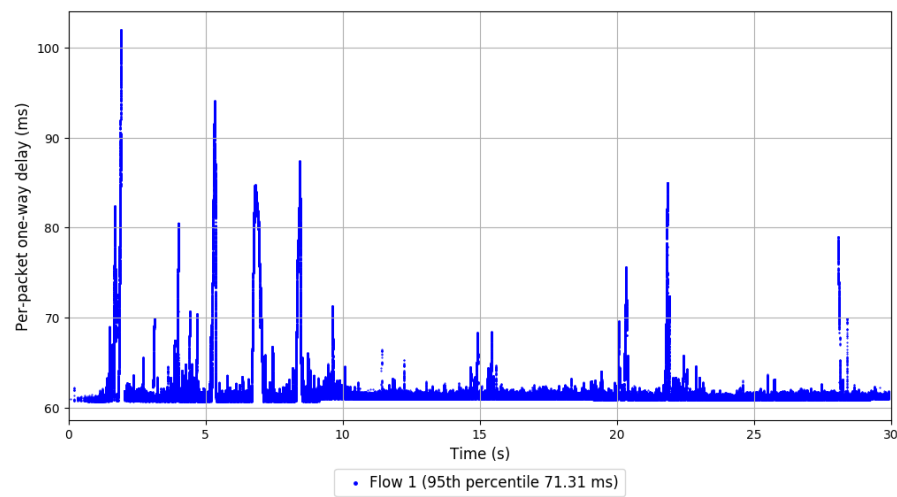
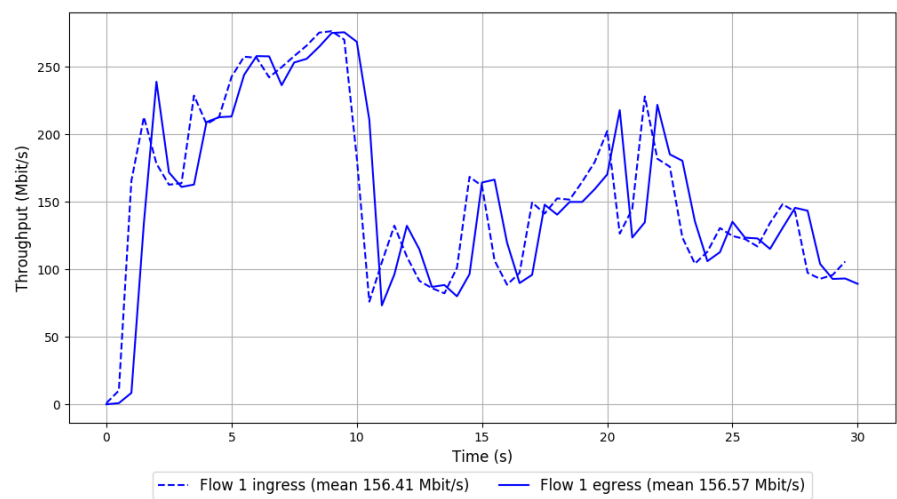


Run 6: Statistics of Copa

Start at: 2018-07-05 00:57:21
End at: 2018-07-05 00:57:51
Local clock offset: -0.32 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-07-05 03:13:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 156.57 Mbit/s
95th percentile per-packet one-way delay: 71.310 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 156.57 Mbit/s
95th percentile per-packet one-way delay: 71.310 ms
Loss rate: 0.31%

Run 6: Report of Copa — Data Link

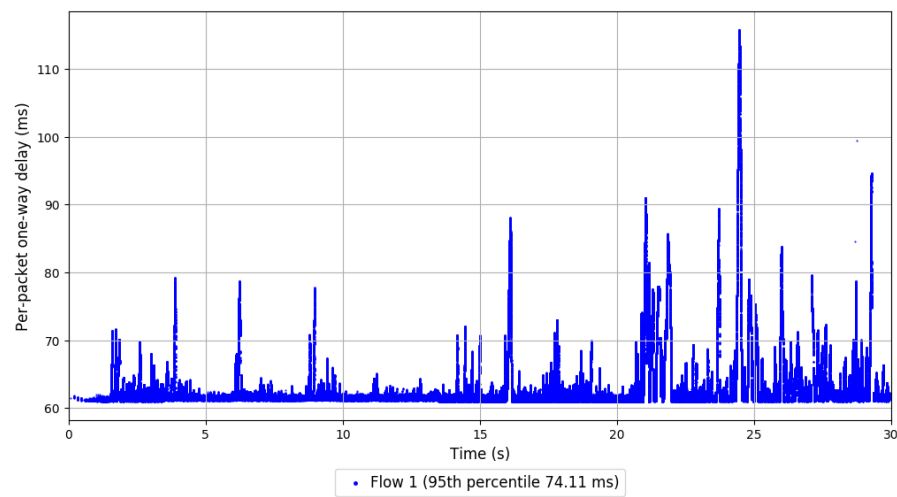
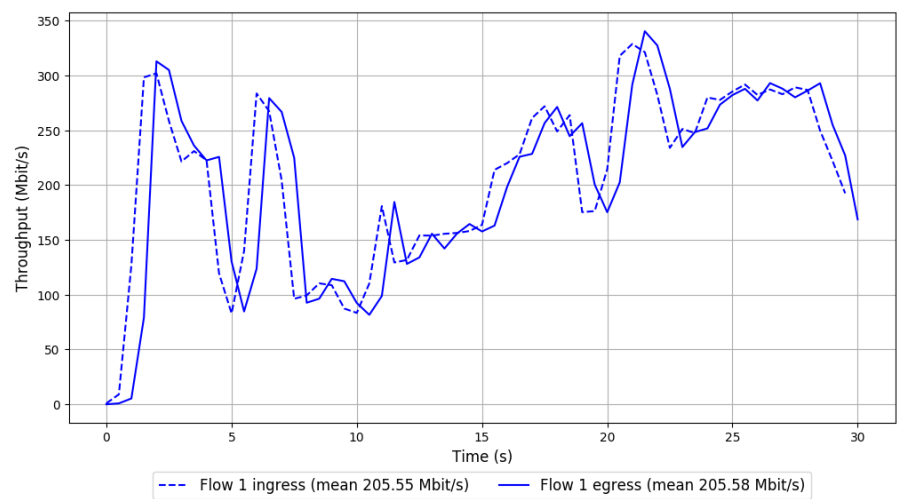


Run 7: Statistics of Copa

Start at: 2018-07-05 01:19:46
End at: 2018-07-05 01:20:16
Local clock offset: -0.315 ms
Remote clock offset: -0.172 ms

Below is generated by plot.py at 2018-07-05 03:15:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 205.58 Mbit/s
95th percentile per-packet one-way delay: 74.109 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 205.58 Mbit/s
95th percentile per-packet one-way delay: 74.109 ms
Loss rate: 0.40%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-05 01:42:11

End at: 2018-07-05 01:42:41

Local clock offset: -0.359 ms

Remote clock offset: 1.351 ms

Below is generated by plot.py at 2018-07-05 03:15:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.27 Mbit/s

95th percentile per-packet one-way delay: 68.307 ms

Loss rate: 0.30%

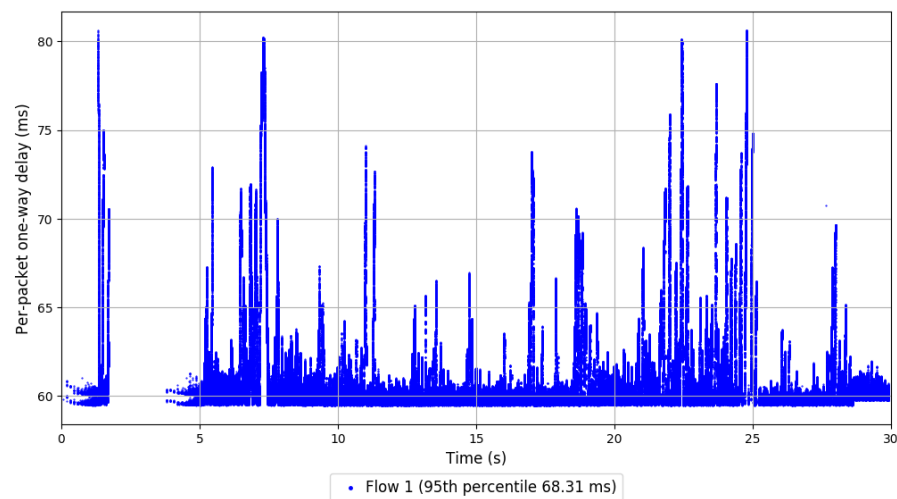
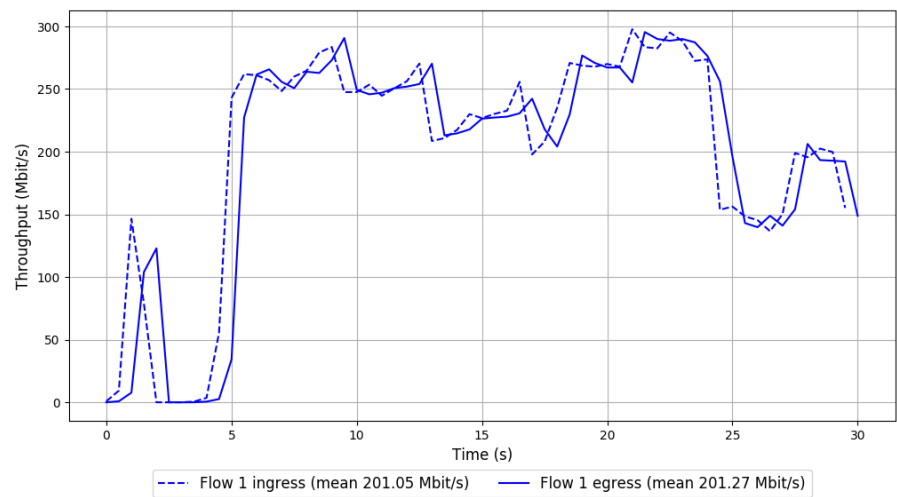
-- Flow 1:

Average throughput: 201.27 Mbit/s

95th percentile per-packet one-way delay: 68.307 ms

Loss rate: 0.30%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-05 02:04:32

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

Local clock offset: -0.351 ms

Remote clock offset: 0.174 ms

Below is generated by plot.py at 2018-07-05 03:17:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.43 Mbit/s

95th percentile per-packet one-way delay: 66.558 ms

Loss rate: 0.16%

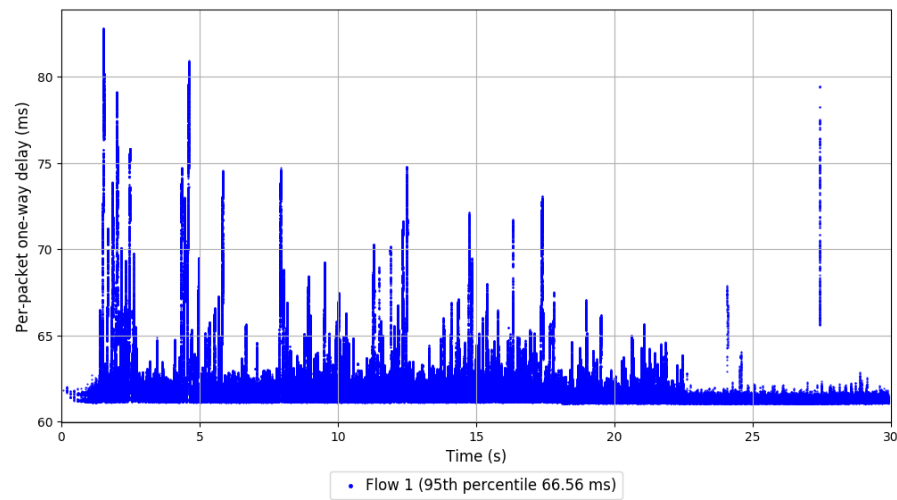
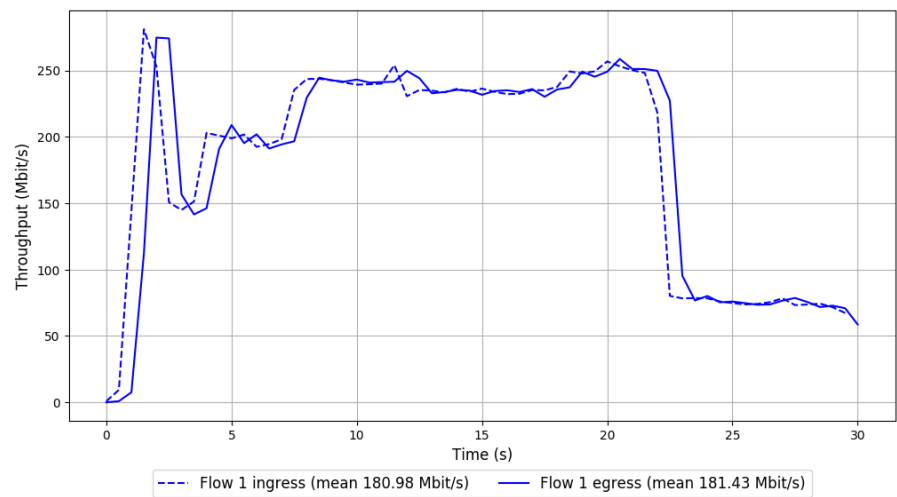
-- Flow 1:

Average throughput: 181.43 Mbit/s

95th percentile per-packet one-way delay: 66.558 ms

Loss rate: 0.16%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-05 02:26:27

End at: 2018-07-05 02:26:57

Local clock offset: -0.411 ms

Remote clock offset: 0.066 ms

Below is generated by plot.py at 2018-07-05 03:18:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.37 Mbit/s

95th percentile per-packet one-way delay: 72.026 ms

Loss rate: 0.14%

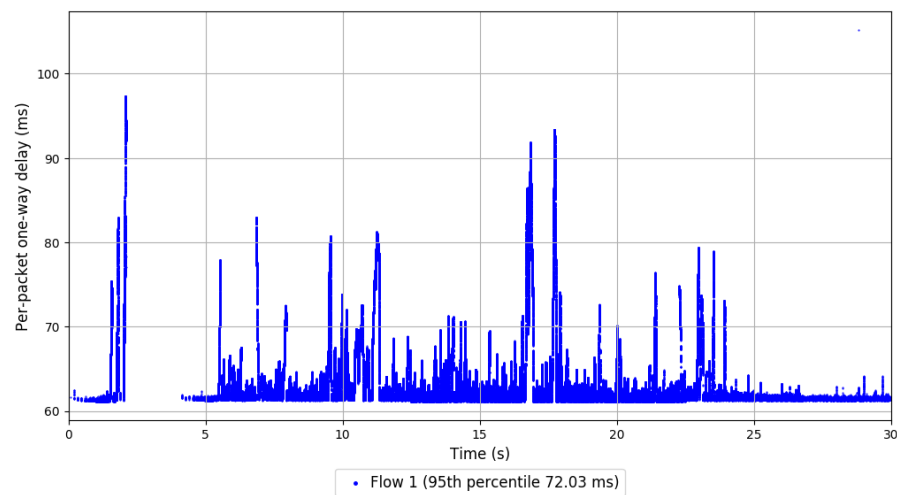
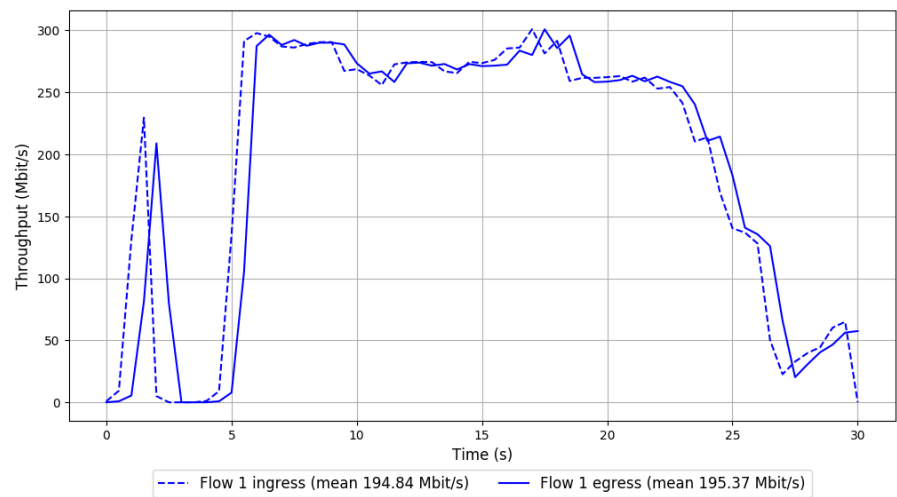
-- Flow 1:

Average throughput: 195.37 Mbit/s

95th percentile per-packet one-way delay: 72.026 ms

Loss rate: 0.14%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-07-04 23:24:40

End at: 2018-07-04 23:25:10

Local clock offset: -0.181 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-07-05 03:18:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.22 Mbit/s

95th percentile per-packet one-way delay: 70.910 ms

Loss rate: 0.47%

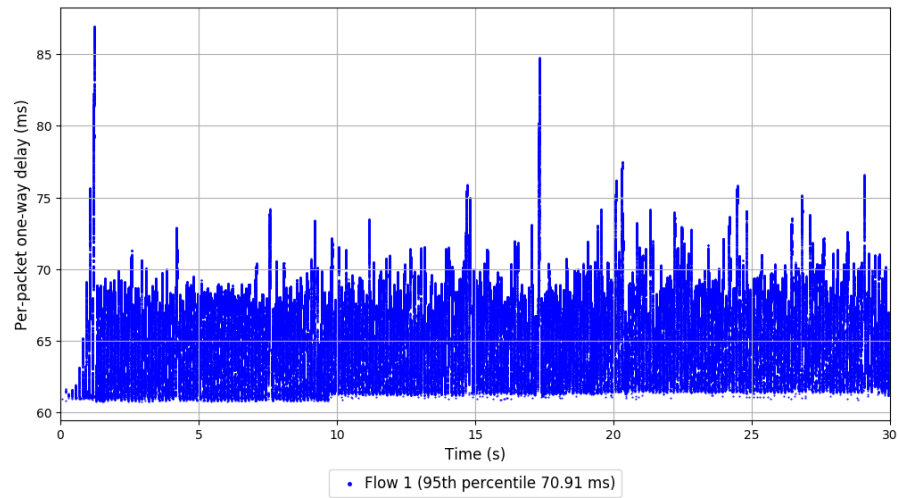
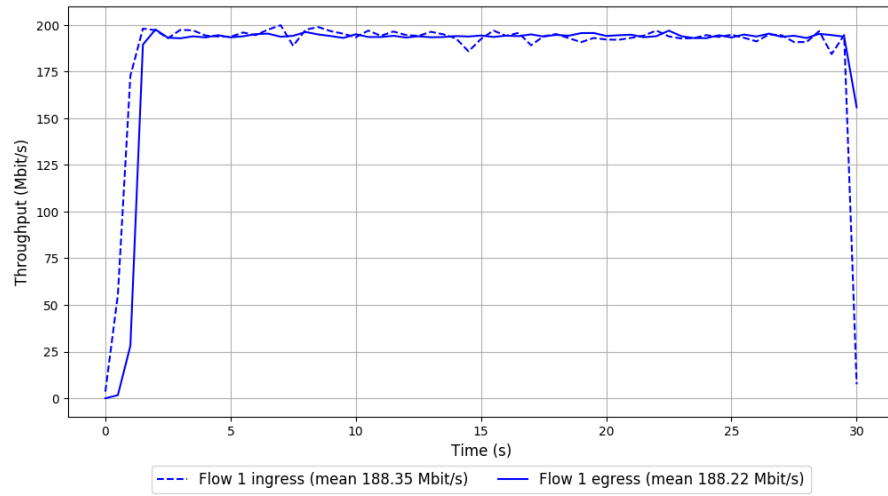
-- Flow 1:

Average throughput: 188.22 Mbit/s

95th percentile per-packet one-way delay: 70.910 ms

Loss rate: 0.47%

Run 1: Report of TCP Cubic — Data Link

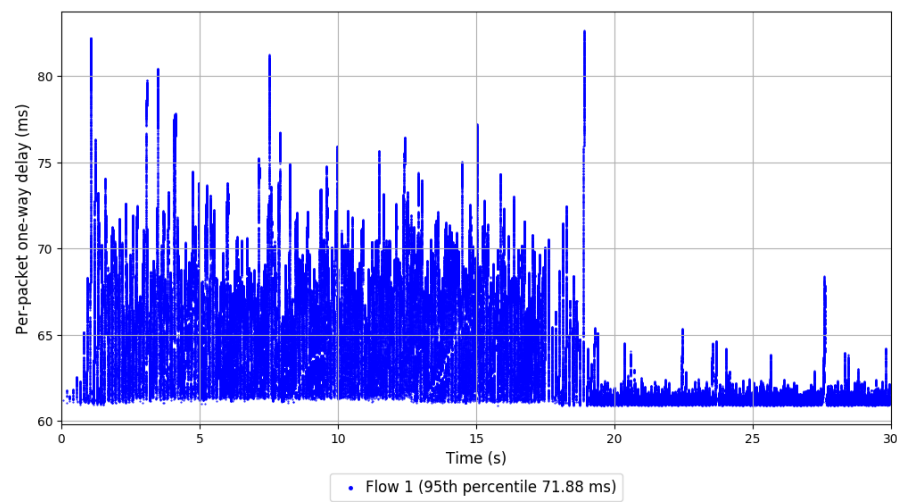
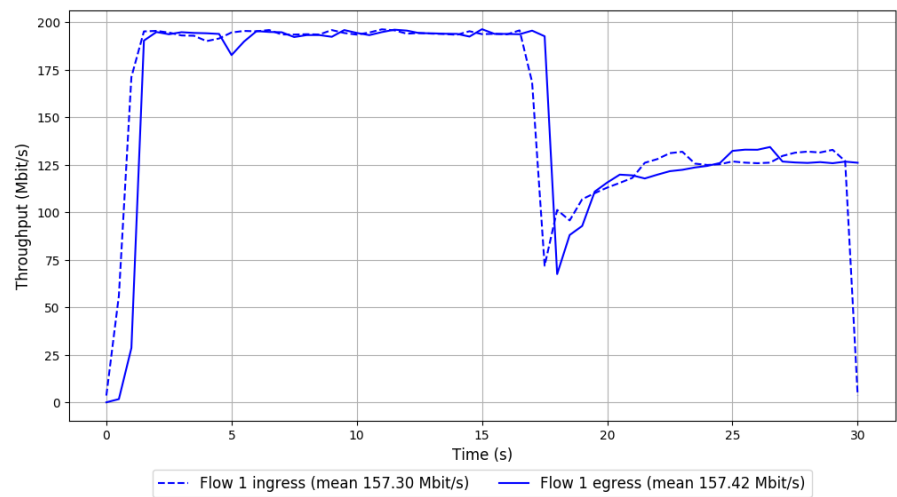


Run 2: Statistics of TCP Cubic

Start at: 2018-07-04 23:47:07
End at: 2018-07-04 23:47:37
Local clock offset: -0.229 ms
Remote clock offset: -0.131 ms

Below is generated by plot.py at 2018-07-05 03:18:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 157.42 Mbit/s
95th percentile per-packet one-way delay: 71.878 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 157.42 Mbit/s
95th percentile per-packet one-way delay: 71.878 ms
Loss rate: 0.34%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-07-05 00:09:21

End at: 2018-07-05 00:09:51

Local clock offset: -0.245 ms

Remote clock offset: 0.114 ms

Below is generated by plot.py at 2018-07-05 03:18:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.06 Mbit/s

95th percentile per-packet one-way delay: 72.402 ms

Loss rate: 0.44%

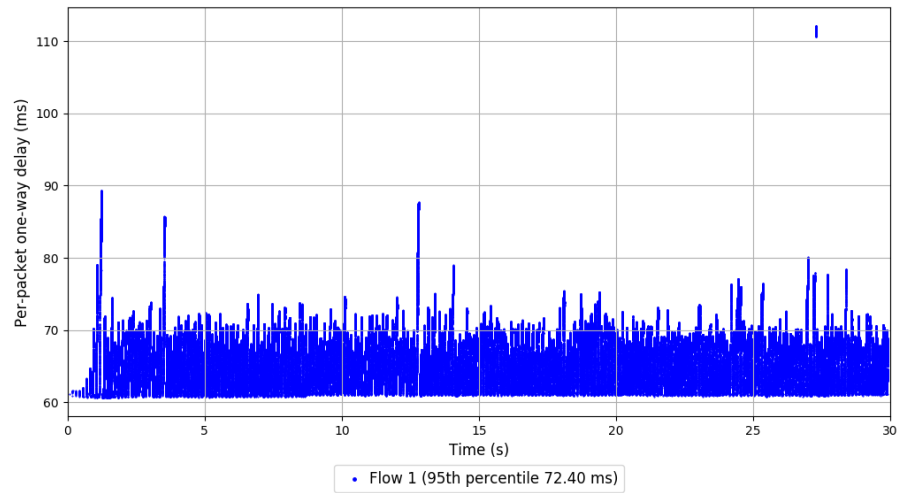
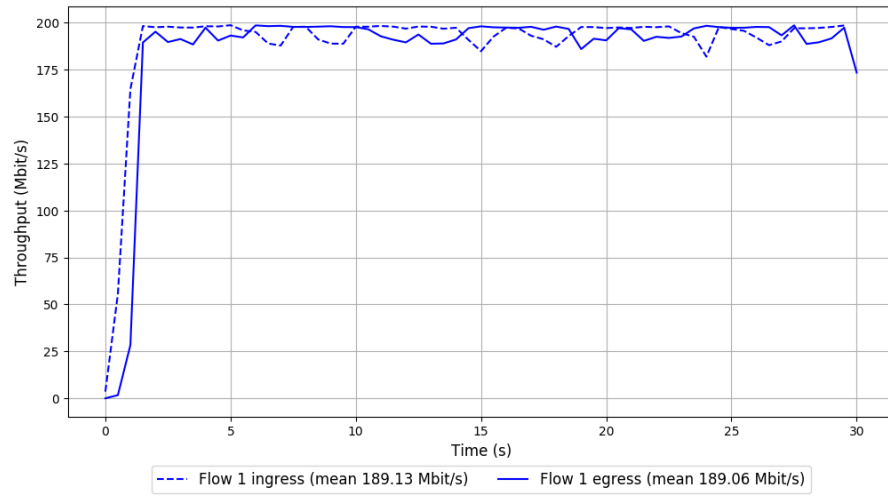
-- Flow 1:

Average throughput: 189.06 Mbit/s

95th percentile per-packet one-way delay: 72.402 ms

Loss rate: 0.44%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-07-05 00:31:30

End at: 2018-07-05 00:32:00

Local clock offset: -0.264 ms

Remote clock offset: 1.237 ms

Below is generated by plot.py at 2018-07-05 03:18:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 143.37 Mbit/s

95th percentile per-packet one-way delay: 68.729 ms

Loss rate: 0.57%

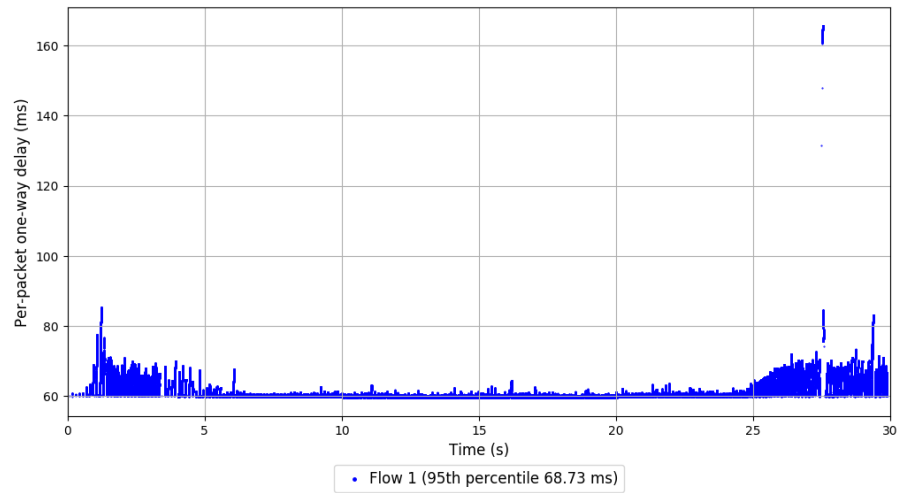
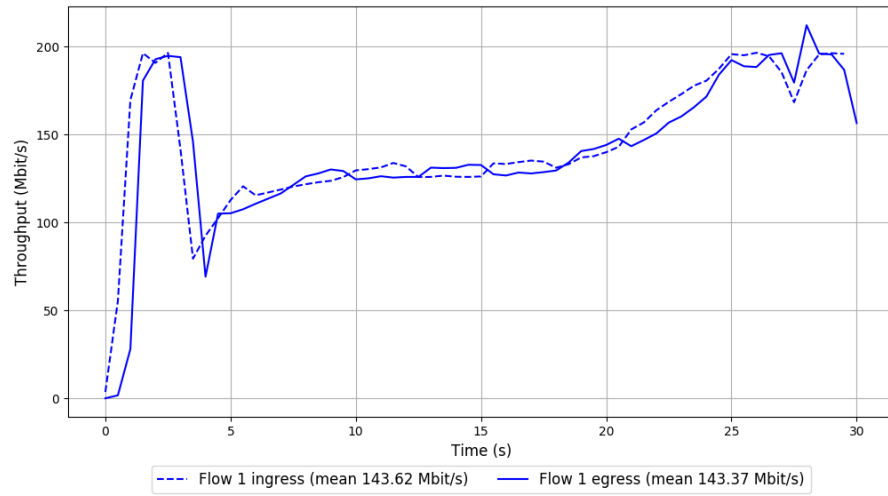
-- Flow 1:

Average throughput: 143.37 Mbit/s

95th percentile per-packet one-way delay: 68.729 ms

Loss rate: 0.57%

Run 4: Report of TCP Cubic — Data Link

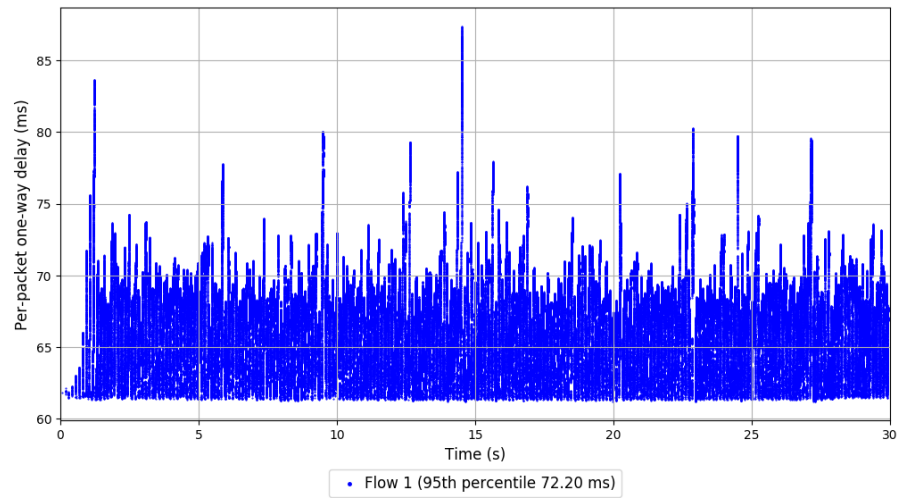
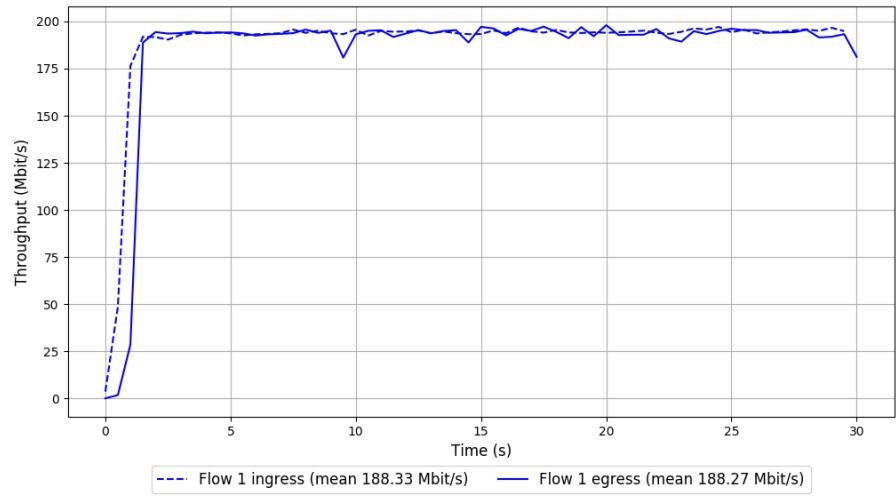


Run 5: Statistics of TCP Cubic

Start at: 2018-07-05 00:53:52
End at: 2018-07-05 00:54:22
Local clock offset: -0.307 ms
Remote clock offset: -0.284 ms

Below is generated by plot.py at 2018-07-05 03:19:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 188.27 Mbit/s
95th percentile per-packet one-way delay: 72.201 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 188.27 Mbit/s
95th percentile per-packet one-way delay: 72.201 ms
Loss rate: 0.43%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-07-05 01:16:18

End at: 2018-07-05 01:16:48

Local clock offset: -0.339 ms

Remote clock offset: 0.19 ms

Below is generated by plot.py at 2018-07-05 03:19:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.29 Mbit/s

95th percentile per-packet one-way delay: 70.338 ms

Loss rate: 0.43%

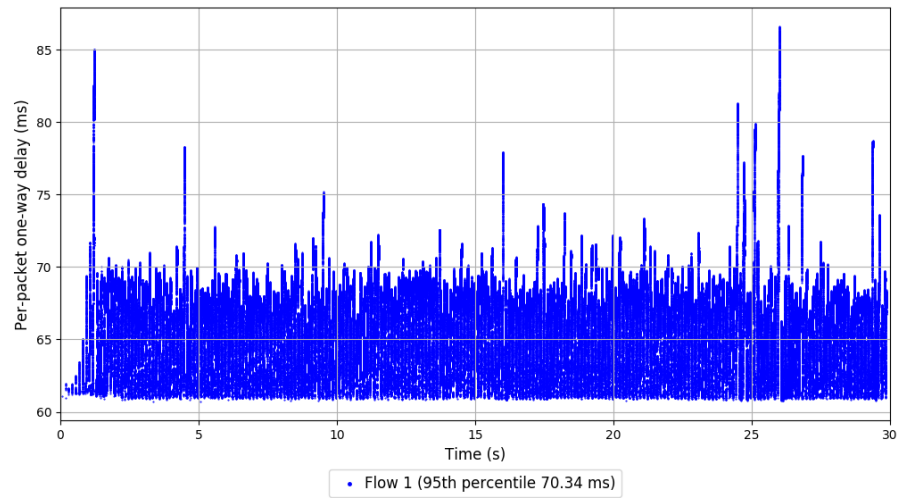
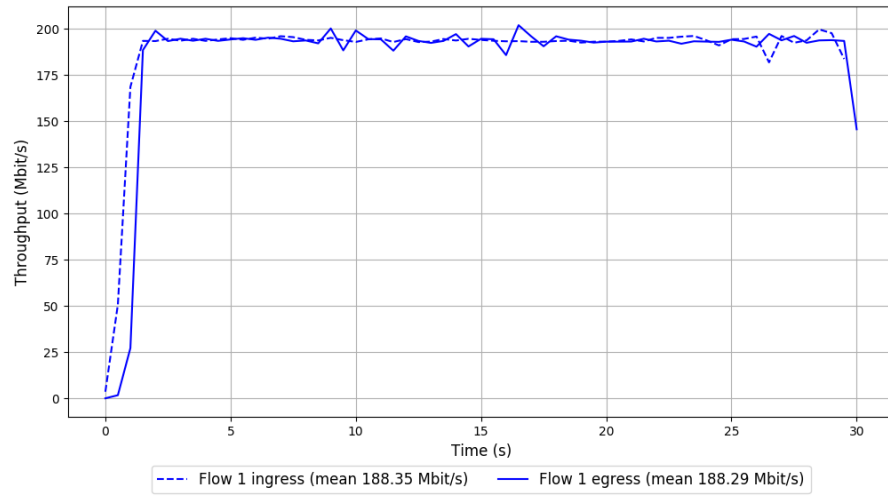
-- Flow 1:

Average throughput: 188.29 Mbit/s

95th percentile per-packet one-way delay: 70.338 ms

Loss rate: 0.43%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-05 01:38:42

End at: 2018-07-05 01:39:12

Local clock offset: -0.387 ms

Remote clock offset: 1.358 ms

Below is generated by plot.py at 2018-07-05 03:19:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.27 Mbit/s

95th percentile per-packet one-way delay: 70.591 ms

Loss rate: 0.43%

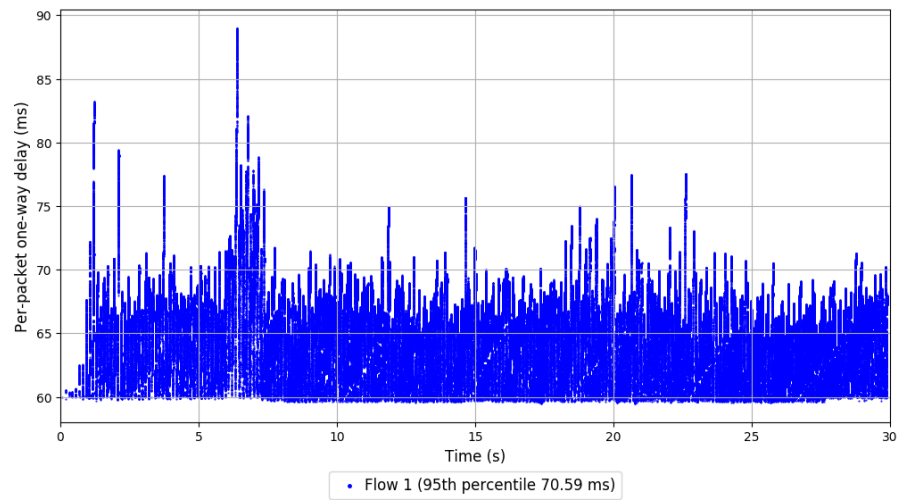
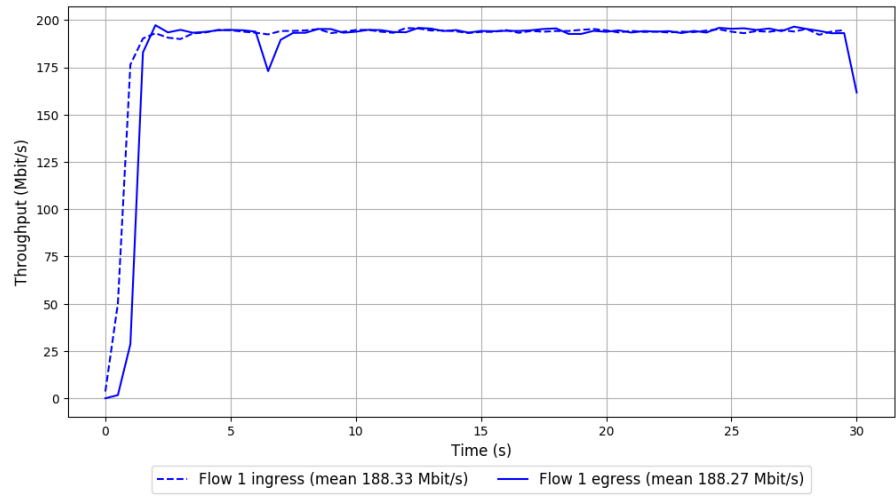
-- Flow 1:

Average throughput: 188.27 Mbit/s

95th percentile per-packet one-way delay: 70.591 ms

Loss rate: 0.43%

Run 7: Report of TCP Cubic — Data Link

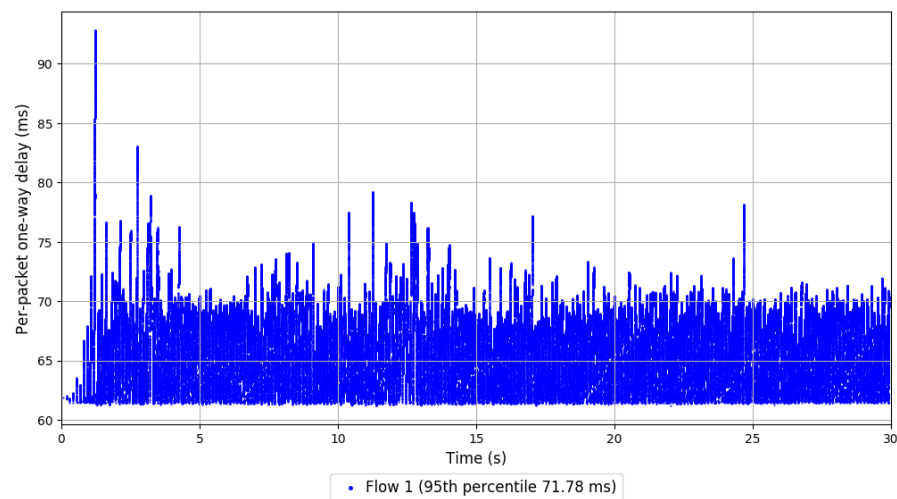
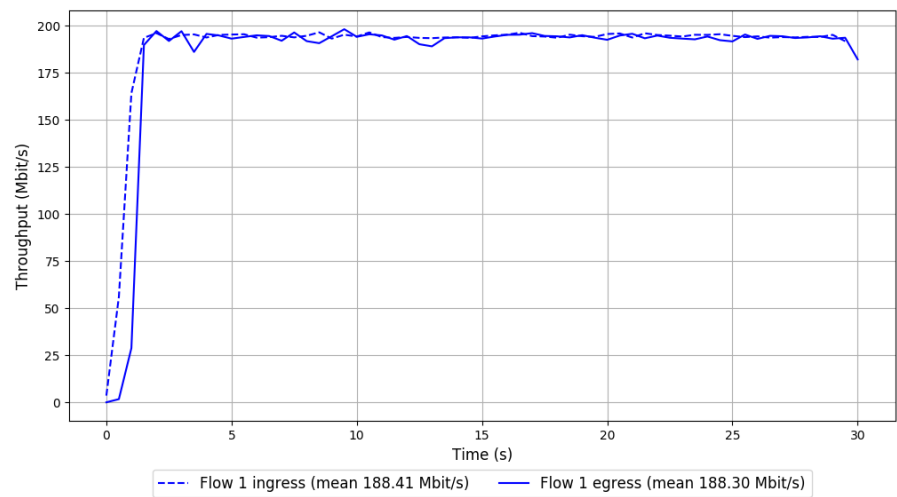


Run 8: Statistics of TCP Cubic

Start at: 2018-07-05 02:01:03
End at: 2018-07-05 02:01:33
Local clock offset: -0.393 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2018-07-05 03:19:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 188.30 Mbit/s
95th percentile per-packet one-way delay: 71.785 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 188.30 Mbit/s
95th percentile per-packet one-way delay: 71.785 ms
Loss rate: 0.47%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-05 02:22:59

End at: 2018-07-05 02:23:29

Local clock offset: -0.407 ms

Remote clock offset: 0.559 ms

Below is generated by plot.py at 2018-07-05 03:20:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.21 Mbit/s

95th percentile per-packet one-way delay: 72.174 ms

Loss rate: 0.46%

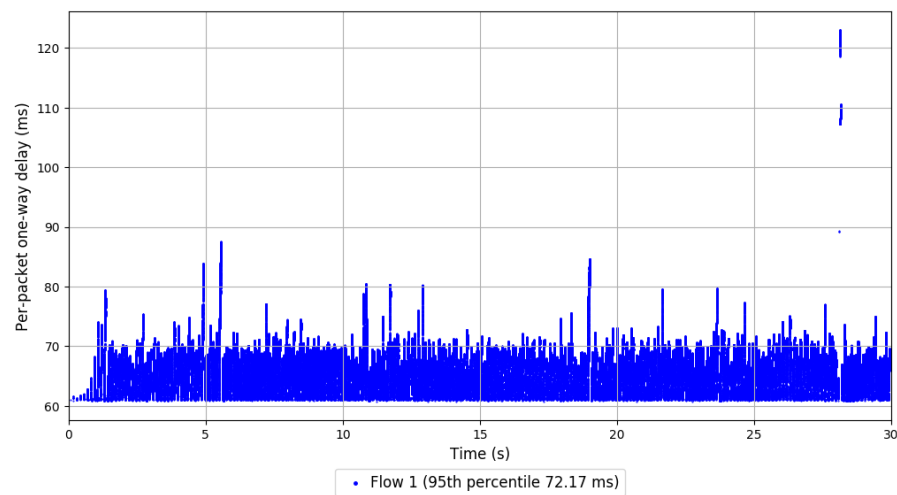
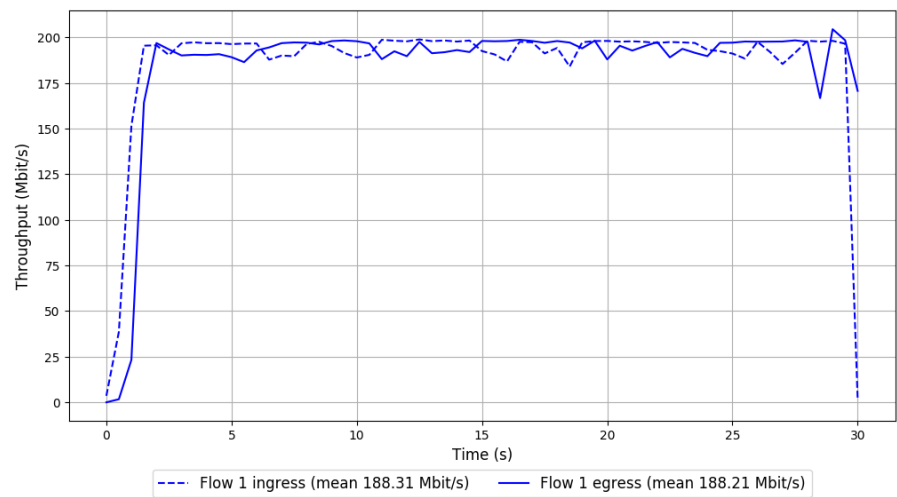
-- Flow 1:

Average throughput: 188.21 Mbit/s

95th percentile per-packet one-way delay: 72.174 ms

Loss rate: 0.46%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-05 02:45:27

End at: 2018-07-05 02:45:57

Local clock offset: -0.445 ms

Remote clock offset: -0.831 ms

Below is generated by plot.py at 2018-07-05 03:20:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.65 Mbit/s

95th percentile per-packet one-way delay: 73.331 ms

Loss rate: 0.45%

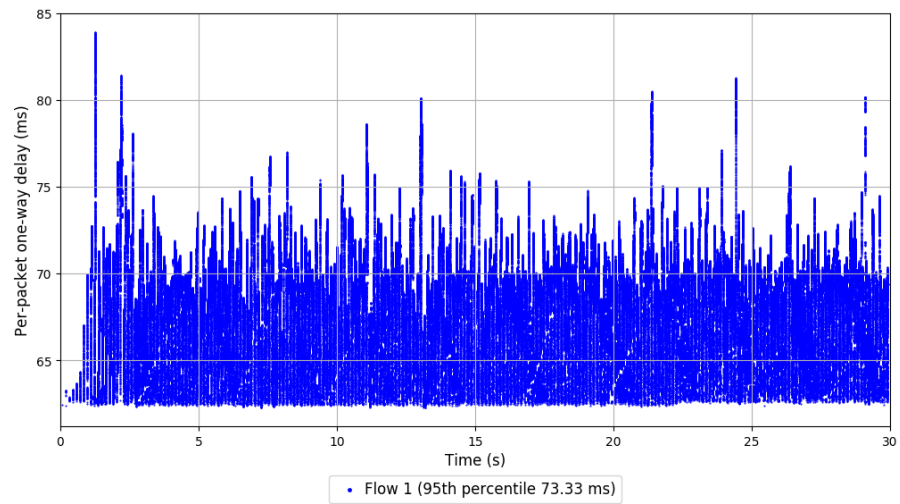
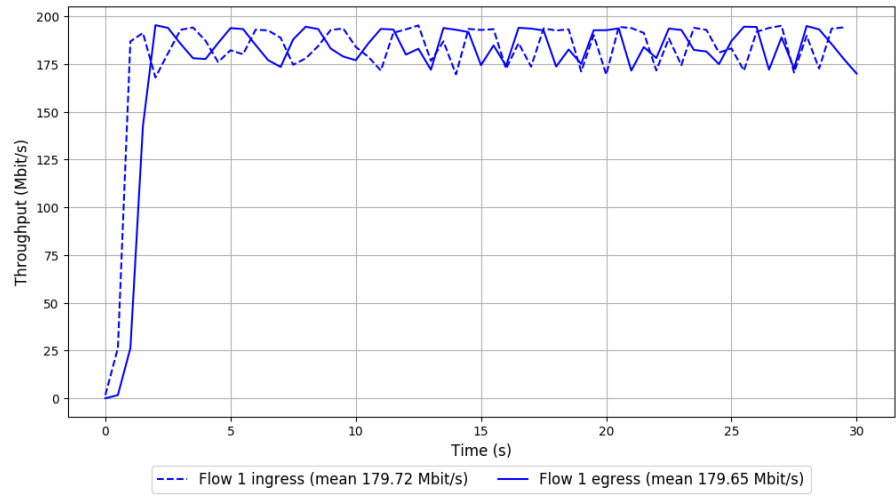
-- Flow 1:

Average throughput: 179.65 Mbit/s

95th percentile per-packet one-way delay: 73.331 ms

Loss rate: 0.45%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-07-04 23:17:32

End at: 2018-07-04 23:18:02

Local clock offset: -0.216 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-07-05 03:36:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 770.78 Mbit/s

95th percentile per-packet one-way delay: 199.346 ms

Loss rate: 4.70%

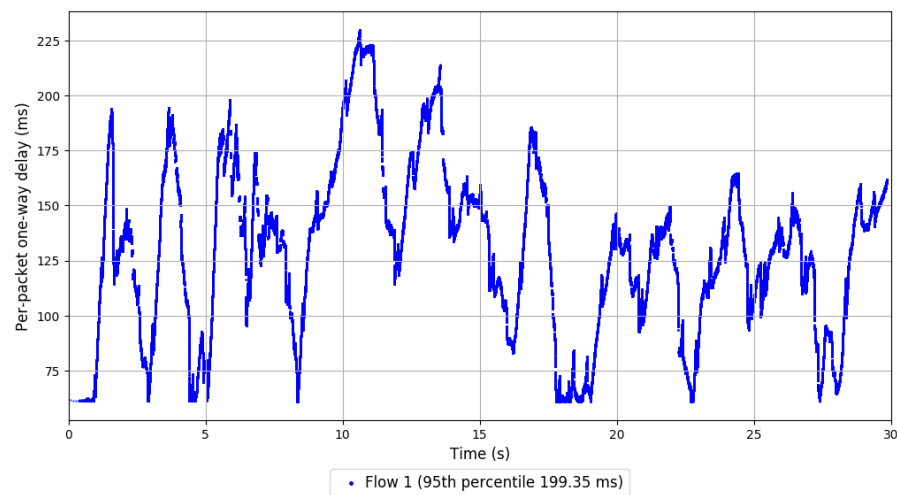
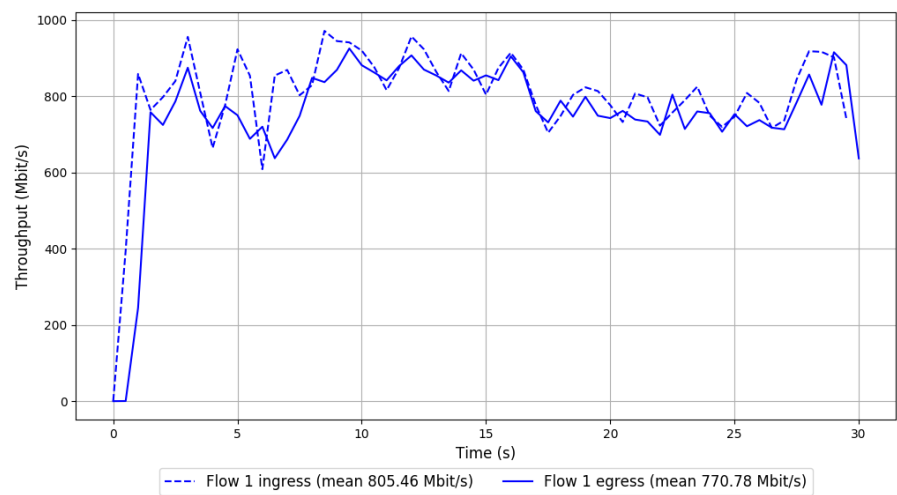
-- Flow 1:

Average throughput: 770.78 Mbit/s

95th percentile per-packet one-way delay: 199.346 ms

Loss rate: 4.70%

Run 1: Report of FillP — Data Link

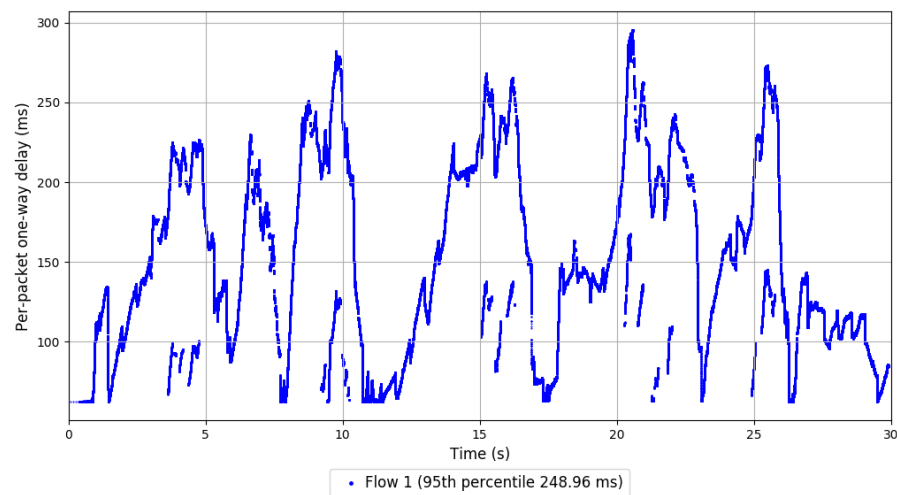
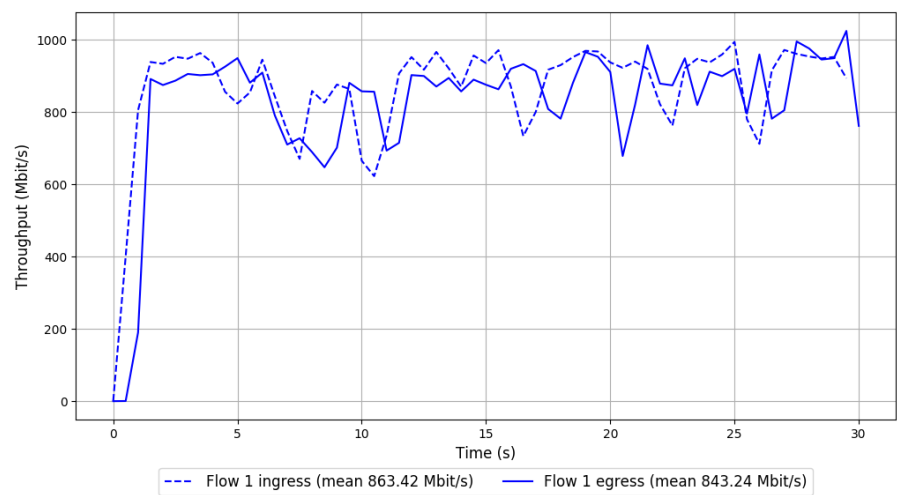


Run 2: Statistics of FillP

Start at: 2018-07-04 23:39:54
End at: 2018-07-04 23:40:24
Local clock offset: -0.231 ms
Remote clock offset: -1.329 ms

Below is generated by plot.py at 2018-07-05 03:39:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 843.24 Mbit/s
95th percentile per-packet one-way delay: 248.955 ms
Loss rate: 2.74%
-- Flow 1:
Average throughput: 843.24 Mbit/s
95th percentile per-packet one-way delay: 248.955 ms
Loss rate: 2.74%

Run 2: Report of FillP — Data Link

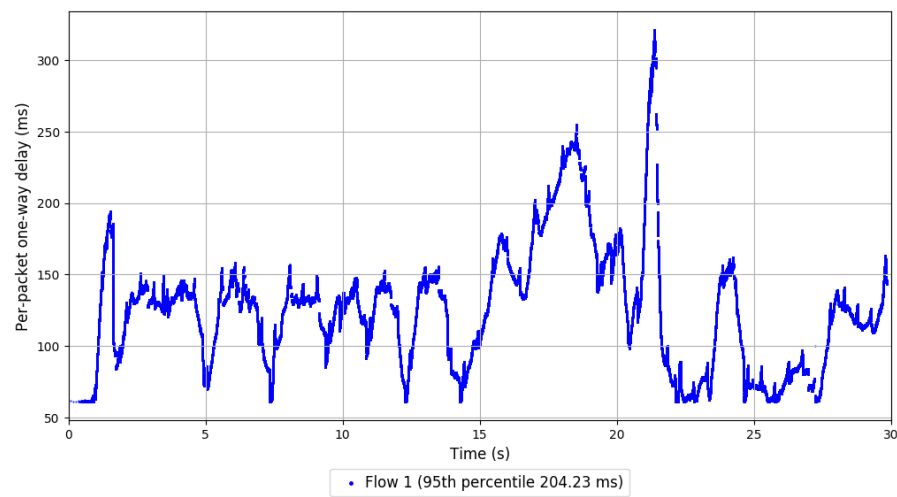
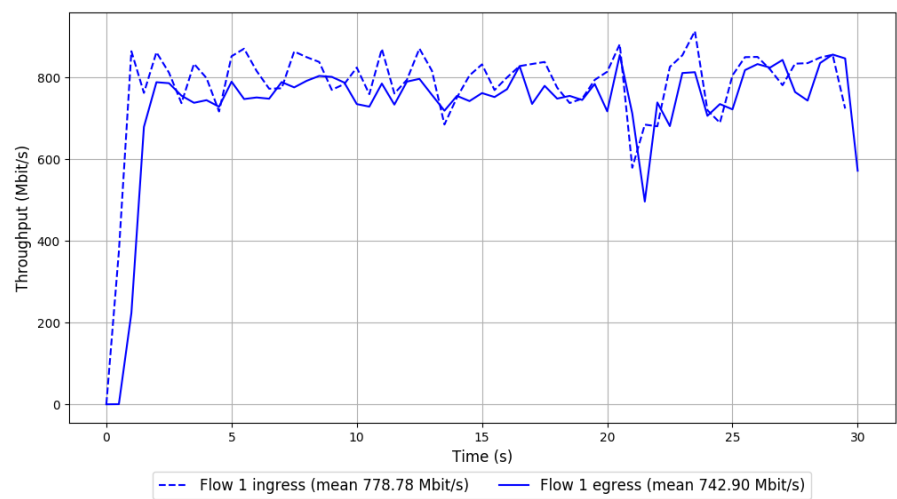


Run 3: Statistics of FillP

Start at: 2018-07-05 00:02:22
End at: 2018-07-05 00:02:52
Local clock offset: -0.247 ms
Remote clock offset: -0.194 ms

Below is generated by plot.py at 2018-07-05 03:39:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 742.90 Mbit/s
95th percentile per-packet one-way delay: 204.227 ms
Loss rate: 5.00%
-- Flow 1:
Average throughput: 742.90 Mbit/s
95th percentile per-packet one-way delay: 204.227 ms
Loss rate: 5.00%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-07-05 00:24:25

End at: 2018-07-05 00:24:55

Local clock offset: -0.292 ms

Remote clock offset: 1.316 ms

Below is generated by plot.py at 2018-07-05 03:39:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 693.28 Mbit/s

95th percentile per-packet one-way delay: 299.088 ms

Loss rate: 6.21%

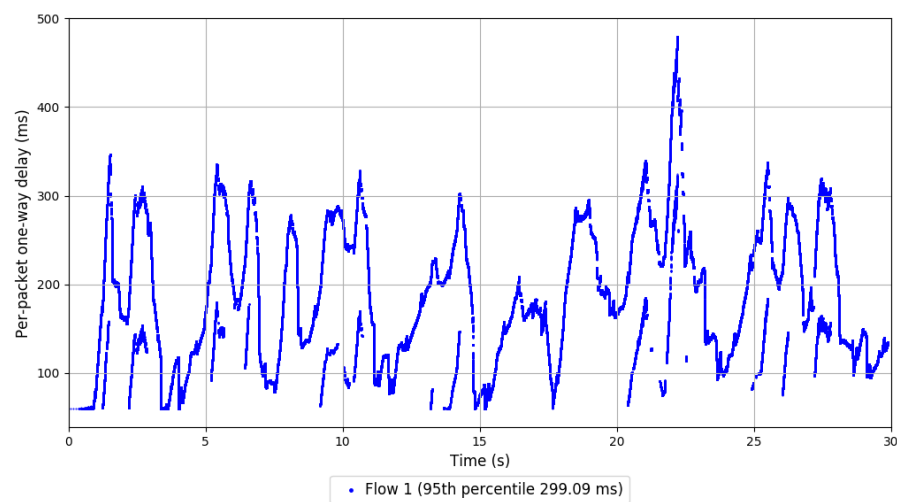
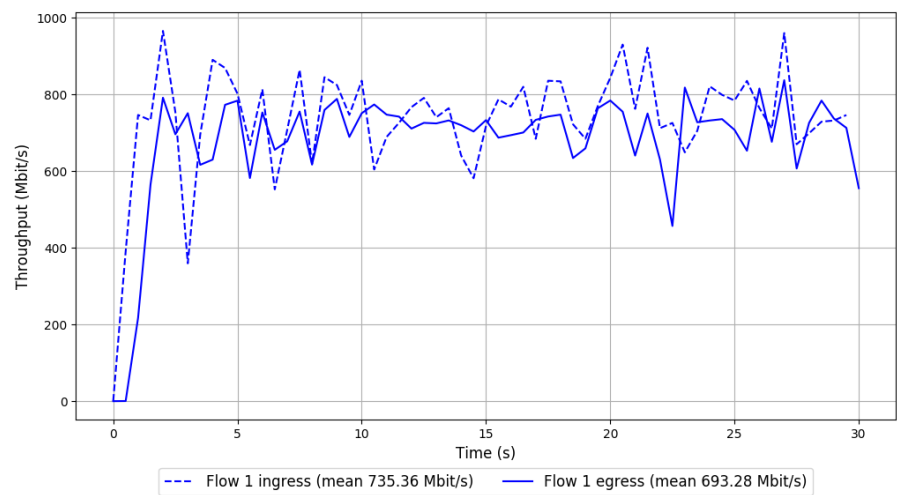
-- Flow 1:

Average throughput: 693.28 Mbit/s

95th percentile per-packet one-way delay: 299.088 ms

Loss rate: 6.21%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-07-05 00:46:46

End at: 2018-07-05 00:47:16

Local clock offset: -0.255 ms

Remote clock offset: 1.366 ms

Below is generated by plot.py at 2018-07-05 03:39:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 682.74 Mbit/s

95th percentile per-packet one-way delay: 148.839 ms

Loss rate: 5.25%

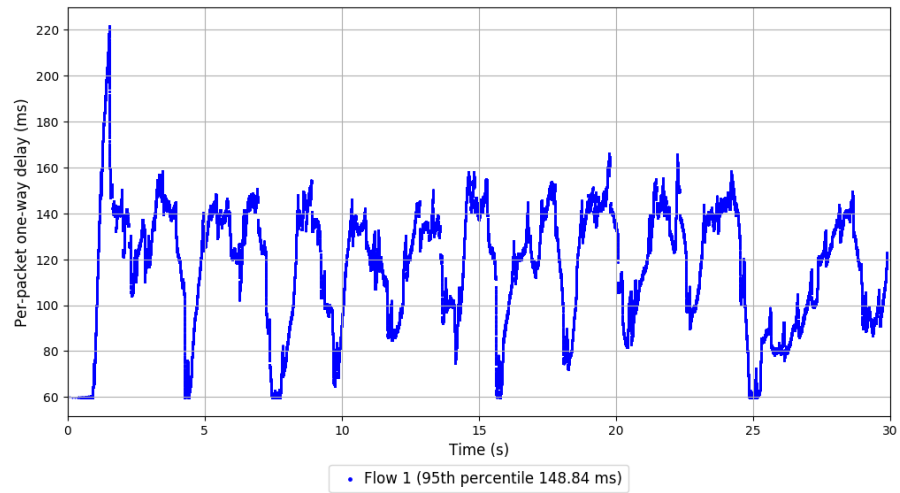
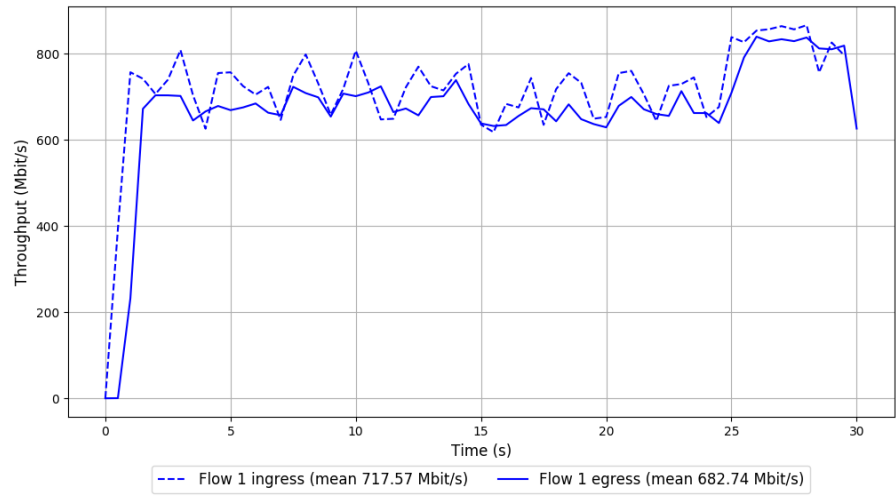
-- Flow 1:

Average throughput: 682.74 Mbit/s

95th percentile per-packet one-way delay: 148.839 ms

Loss rate: 5.25%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-05 01:09:04

End at: 2018-07-05 01:09:34

Local clock offset: -0.299 ms

Remote clock offset: -0.07 ms

Below is generated by plot.py at 2018-07-05 03:39:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 728.97 Mbit/s

95th percentile per-packet one-way delay: 171.018 ms

Loss rate: 6.44%

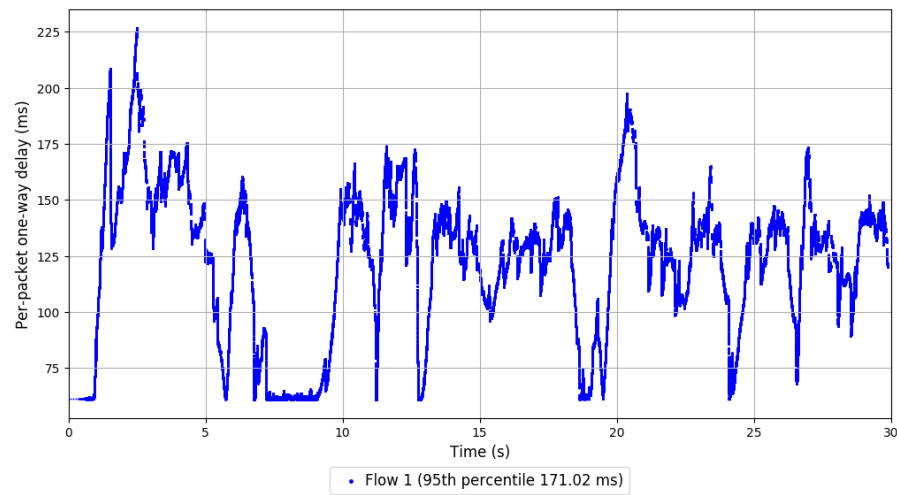
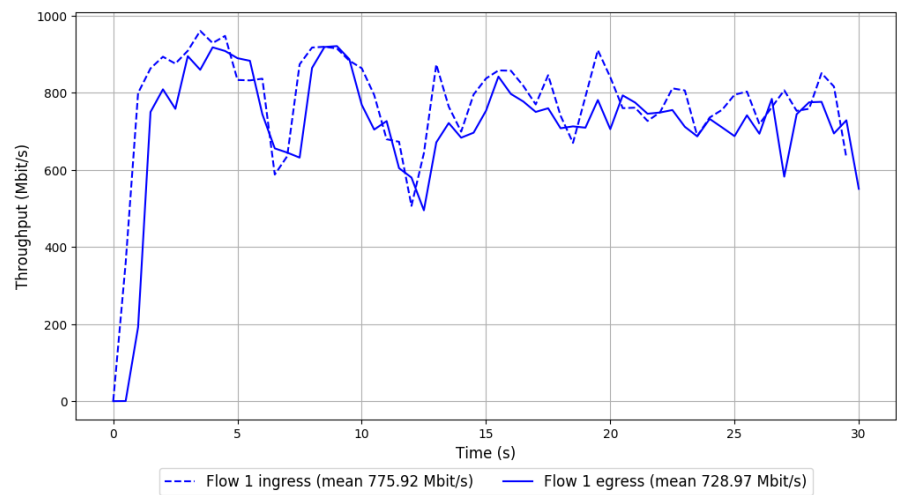
-- Flow 1:

Average throughput: 728.97 Mbit/s

95th percentile per-packet one-way delay: 171.018 ms

Loss rate: 6.44%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-07-05 01:31:30

End at: 2018-07-05 01:32:00

Local clock offset: -0.341 ms

Remote clock offset: 1.386 ms

Below is generated by plot.py at 2018-07-05 03:39:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 707.02 Mbit/s

95th percentile per-packet one-way delay: 287.254 ms

Loss rate: 3.54%

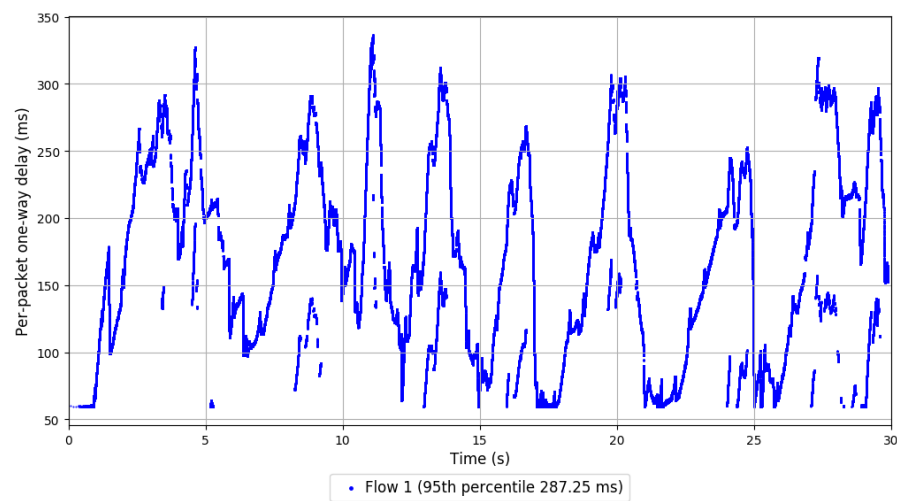
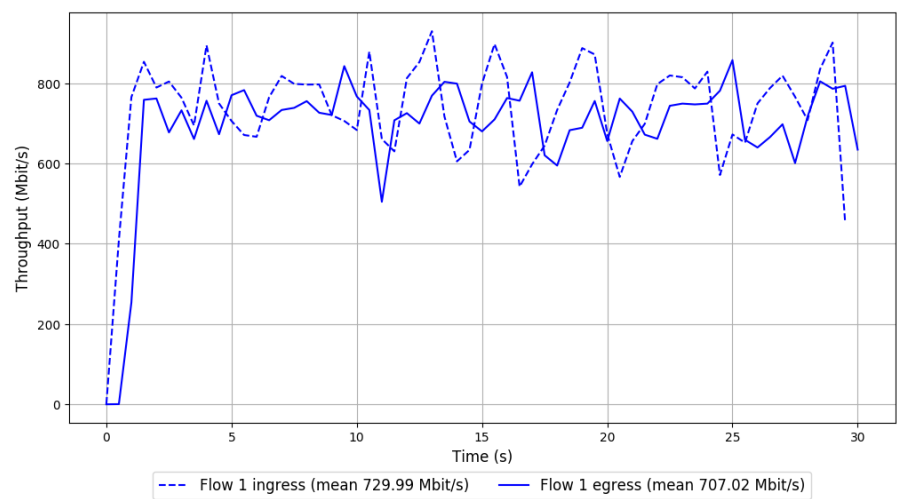
-- Flow 1:

Average throughput: 707.02 Mbit/s

95th percentile per-packet one-way delay: 287.254 ms

Loss rate: 3.54%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-05 01:54:01

End at: 2018-07-05 01:54:31

Local clock offset: -0.375 ms

Remote clock offset: 0.342 ms

Below is generated by plot.py at 2018-07-05 03:39:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 752.29 Mbit/s

95th percentile per-packet one-way delay: 263.468 ms

Loss rate: 4.29%

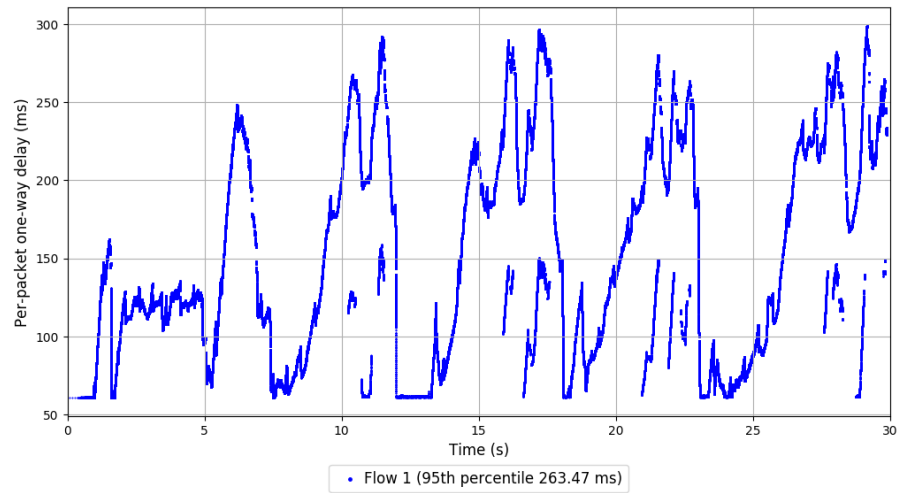
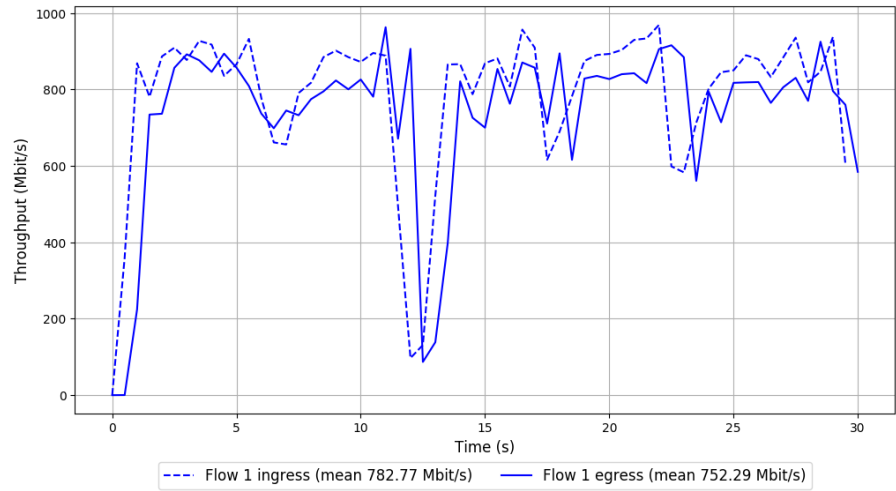
-- Flow 1:

Average throughput: 752.29 Mbit/s

95th percentile per-packet one-way delay: 263.468 ms

Loss rate: 4.29%

Run 8: Report of FillP — Data Link

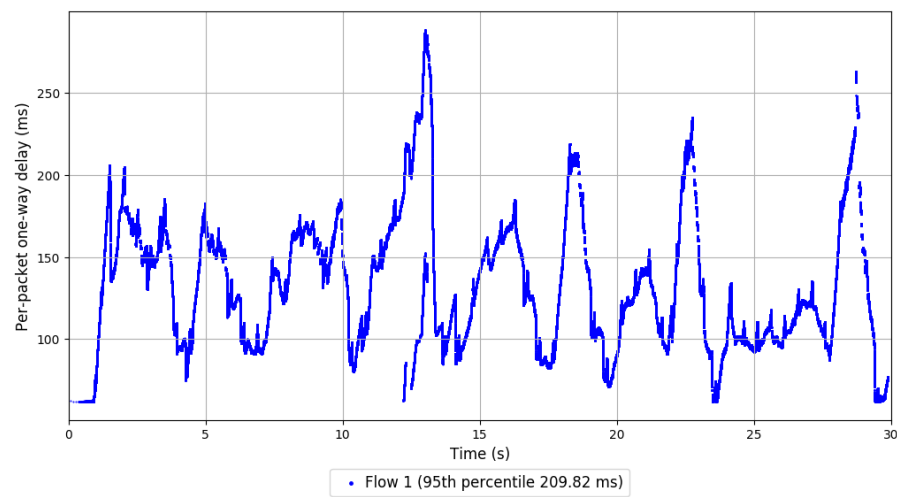
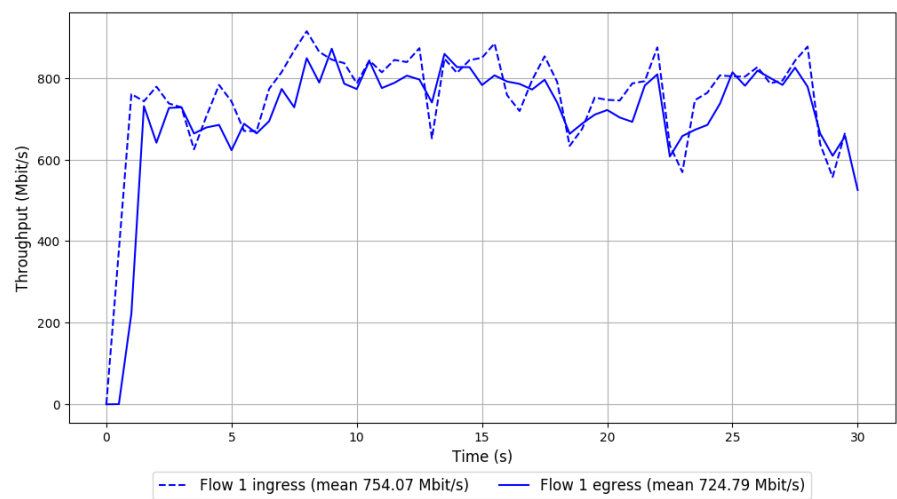


Run 9: Statistics of FillP

Start at: 2018-07-05 02:16:15
End at: 2018-07-05 02:16:45
Local clock offset: -0.377 ms
Remote clock offset: -0.833 ms

Below is generated by plot.py at 2018-07-05 03:54:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 724.79 Mbit/s
95th percentile per-packet one-way delay: 209.819 ms
Loss rate: 4.28%
-- Flow 1:
Average throughput: 724.79 Mbit/s
95th percentile per-packet one-way delay: 209.819 ms
Loss rate: 4.28%

Run 9: Report of FillP — Data Link

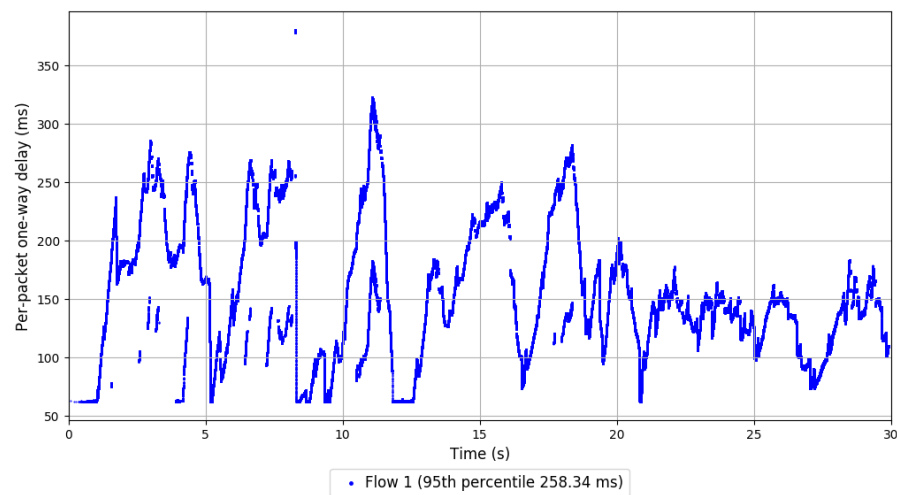
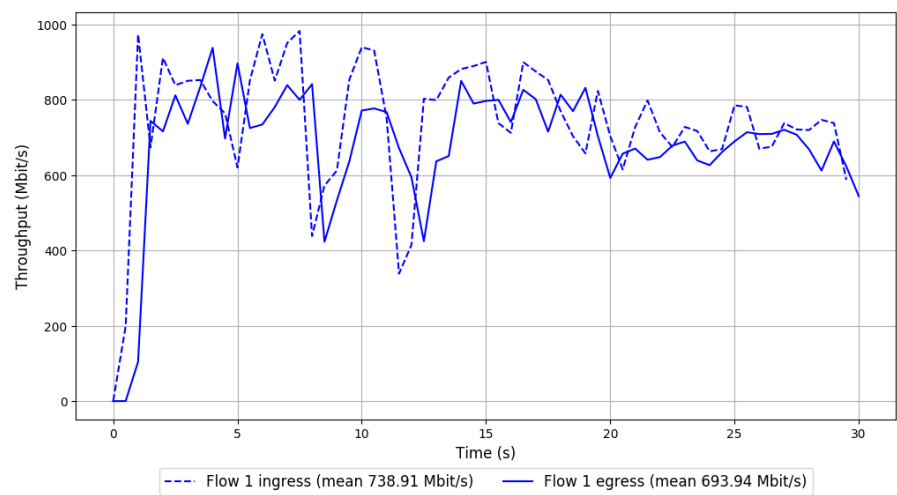


Run 10: Statistics of FillP

Start at: 2018-07-05 02:38:13
End at: 2018-07-05 02:38:43
Local clock offset: -0.409 ms
Remote clock offset: -0.696 ms

Below is generated by plot.py at 2018-07-05 03:54:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 693.94 Mbit/s
95th percentile per-packet one-way delay: 258.343 ms
Loss rate: 6.47%
-- Flow 1:
Average throughput: 693.94 Mbit/s
95th percentile per-packet one-way delay: 258.343 ms
Loss rate: 6.47%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-07-04 23:20:22

End at: 2018-07-04 23:20:52

Local clock offset: -0.203 ms

Remote clock offset: 0.11 ms

Below is generated by plot.py at 2018-07-05 03:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 719.03 Mbit/s

95th percentile per-packet one-way delay: 171.141 ms

Loss rate: 10.70%

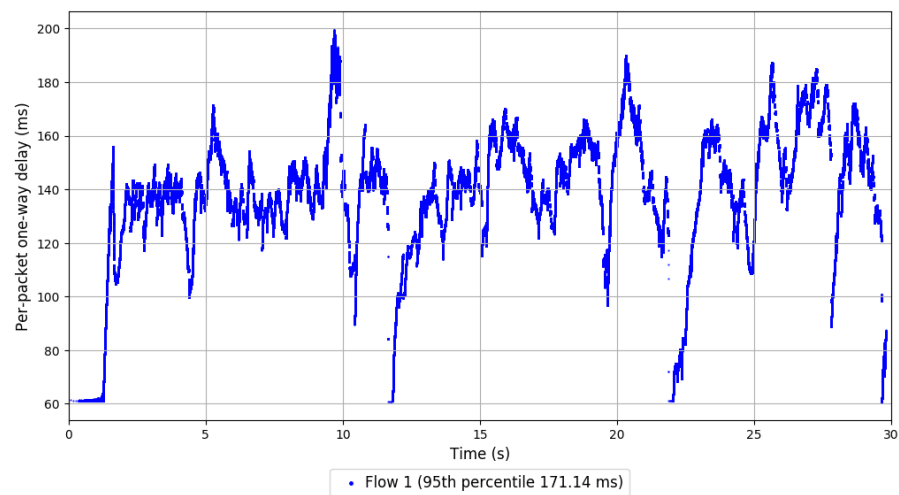
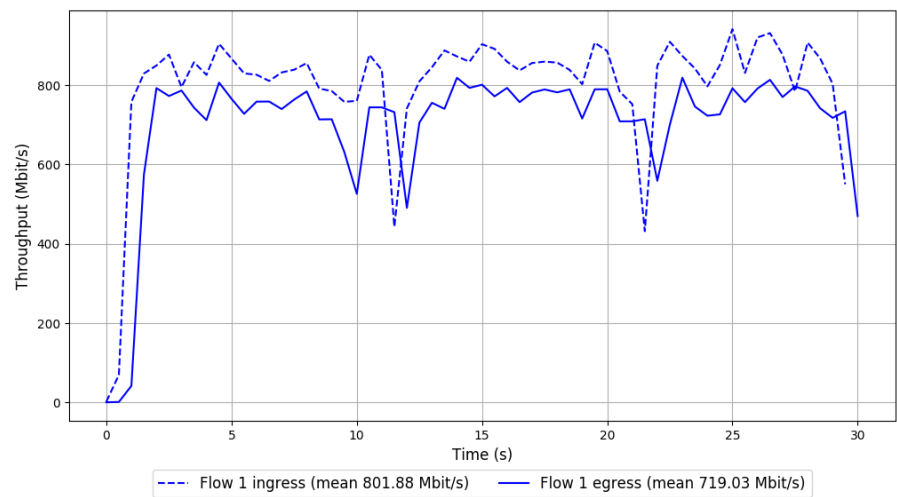
-- Flow 1:

Average throughput: 719.03 Mbit/s

95th percentile per-packet one-way delay: 171.141 ms

Loss rate: 10.70%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-04 23:42:50

End at: 2018-07-04 23:43:20

Local clock offset: -0.216 ms

Remote clock offset: 1.281 ms

Below is generated by plot.py at 2018-07-05 03:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 619.34 Mbit/s

95th percentile per-packet one-way delay: 264.495 ms

Loss rate: 6.92%

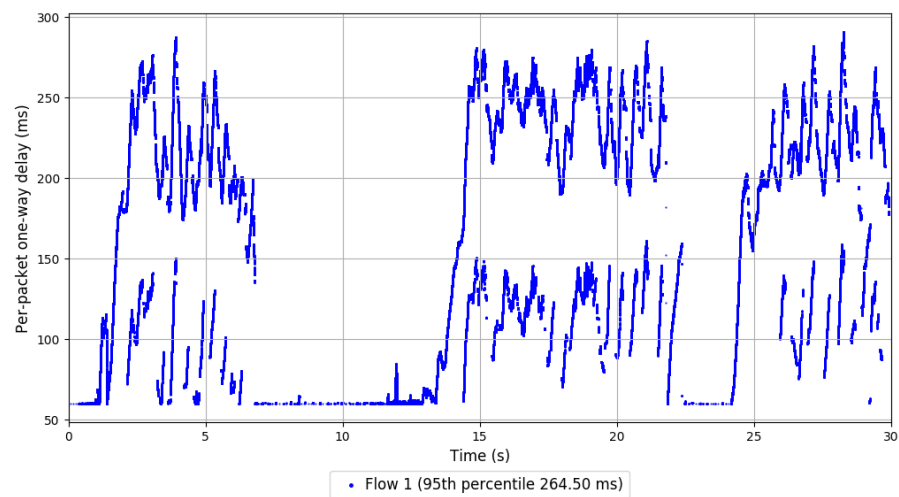
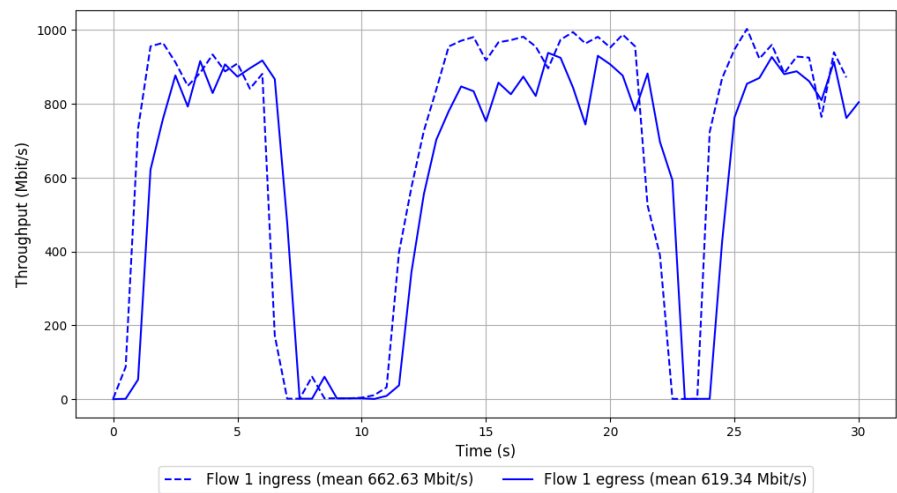
-- Flow 1:

Average throughput: 619.34 Mbit/s

95th percentile per-packet one-way delay: 264.495 ms

Loss rate: 6.92%

Run 2: Report of FillP-Sheep — Data Link

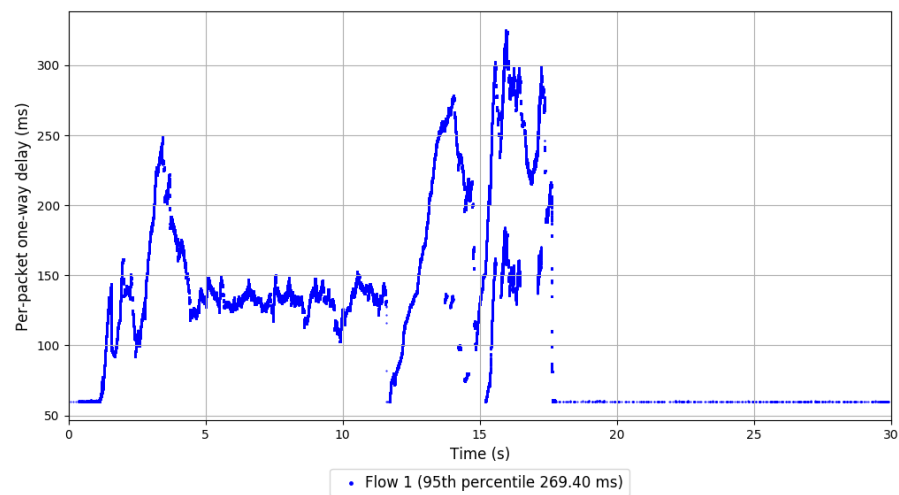
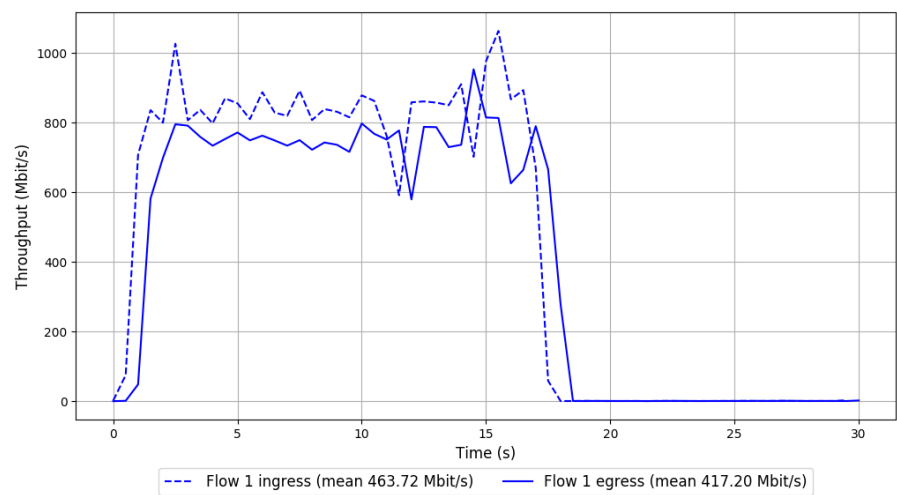


Run 3: Statistics of FillP-Sheep

Start at: 2018-07-05 00:05:15
End at: 2018-07-05 00:05:45
Local clock offset: -0.266 ms
Remote clock offset: 1.164 ms

Below is generated by plot.py at 2018-07-05 03:55:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 417.20 Mbit/s
95th percentile per-packet one-way delay: 269.401 ms
Loss rate: 10.39%
-- Flow 1:
Average throughput: 417.20 Mbit/s
95th percentile per-packet one-way delay: 269.401 ms
Loss rate: 10.39%

Run 3: Report of FillP-Sheep — Data Link

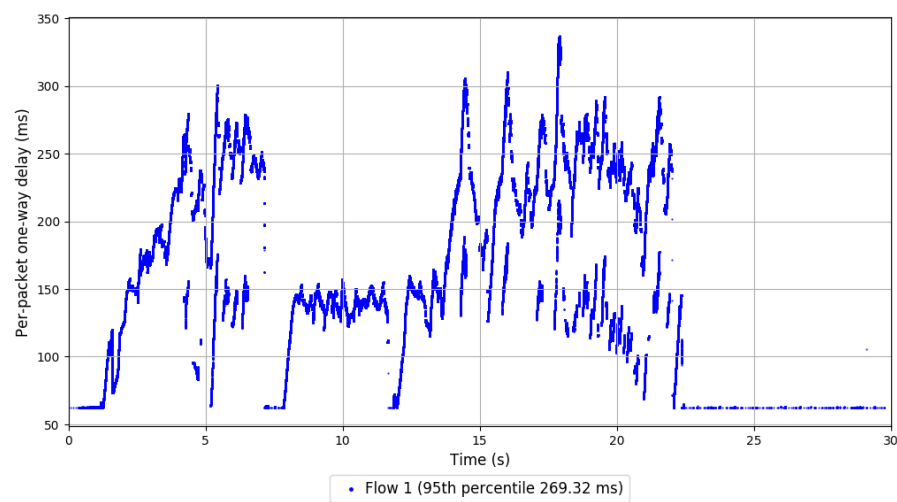
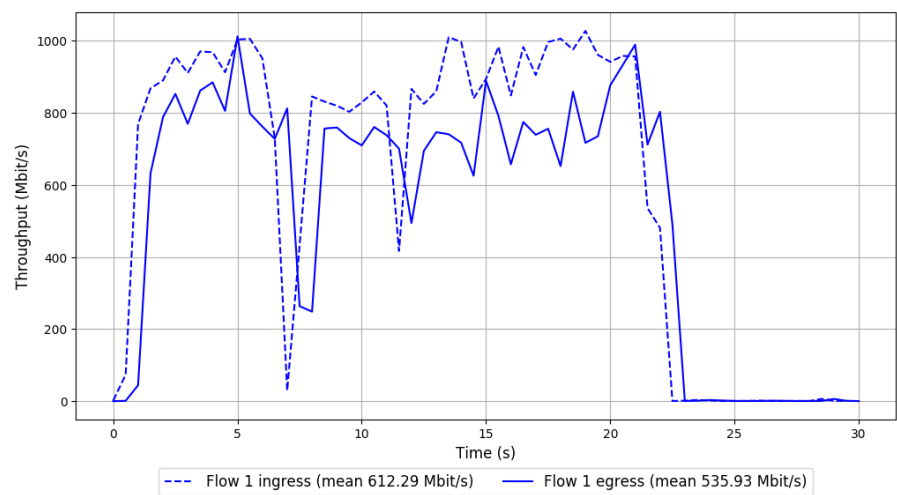


Run 4: Statistics of FillP-Sheep

Start at: 2018-07-05 00:27:18
End at: 2018-07-05 00:27:48
Local clock offset: -0.255 ms
Remote clock offset: -1.251 ms

Below is generated by plot.py at 2018-07-05 03:55:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 535.93 Mbit/s
95th percentile per-packet one-way delay: 269.318 ms
Loss rate: 12.95%
-- Flow 1:
Average throughput: 535.93 Mbit/s
95th percentile per-packet one-way delay: 269.318 ms
Loss rate: 12.95%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-07-05 00:49:34

End at: 2018-07-05 00:50:04

Local clock offset: -0.272 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2018-07-05 03:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 599.96 Mbit/s

95th percentile per-packet one-way delay: 268.852 ms

Loss rate: 8.95%

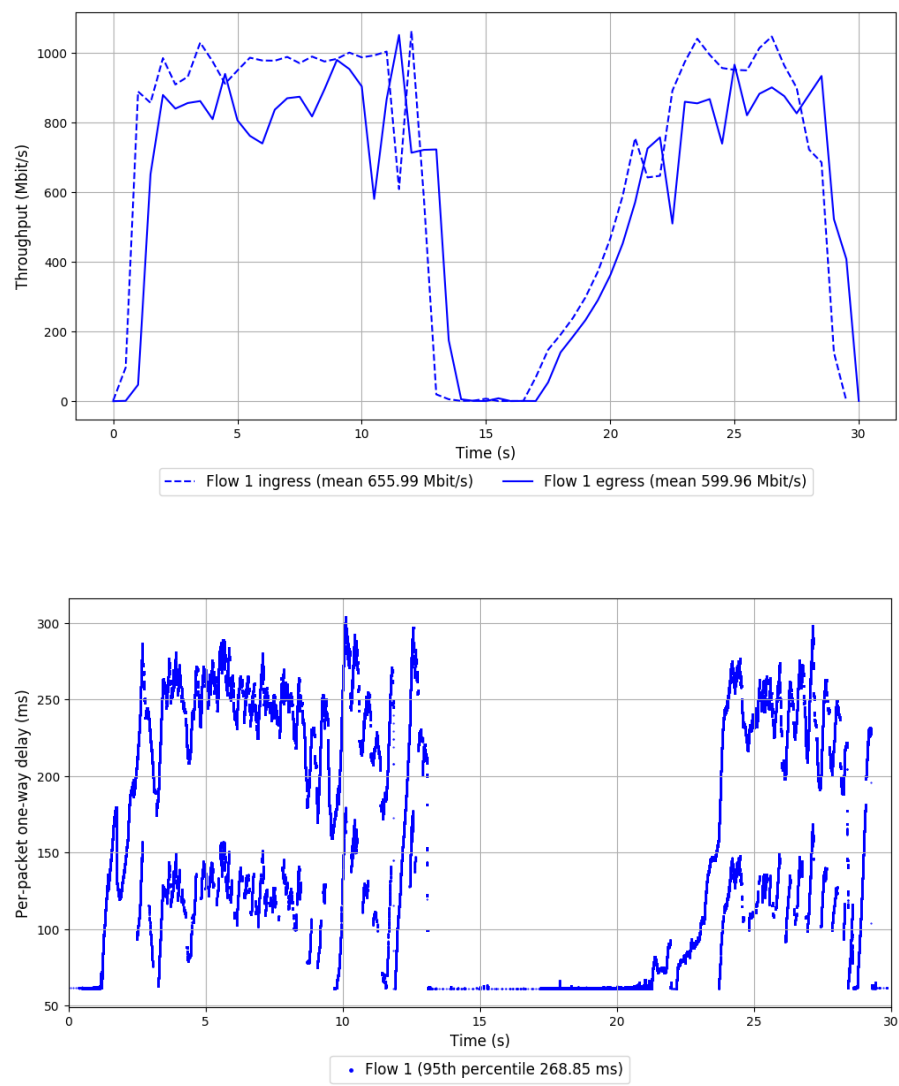
-- Flow 1:

Average throughput: 599.96 Mbit/s

95th percentile per-packet one-way delay: 268.852 ms

Loss rate: 8.95%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-05 01:11:58

End at: 2018-07-05 01:12:28

Local clock offset: -0.297 ms

Remote clock offset: -0.15 ms

Below is generated by plot.py at 2018-07-05 03:57:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 679.02 Mbit/s

95th percentile per-packet one-way delay: 274.286 ms

Loss rate: 13.73%

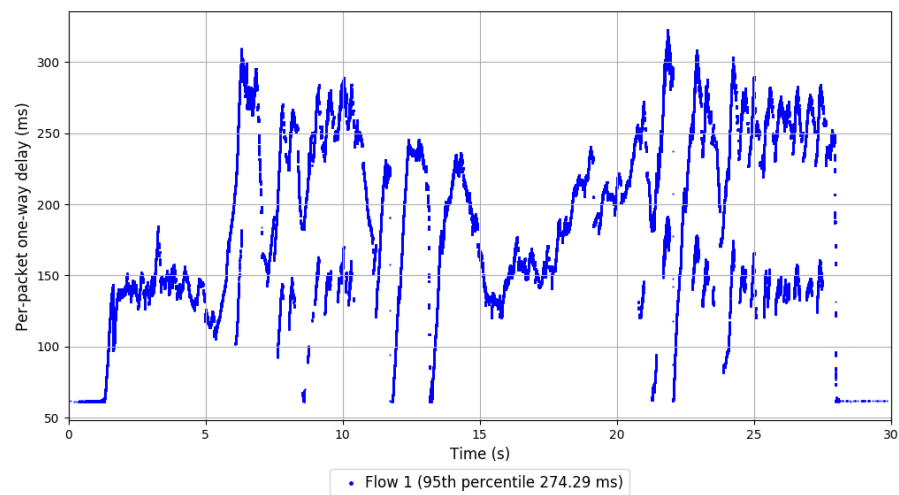
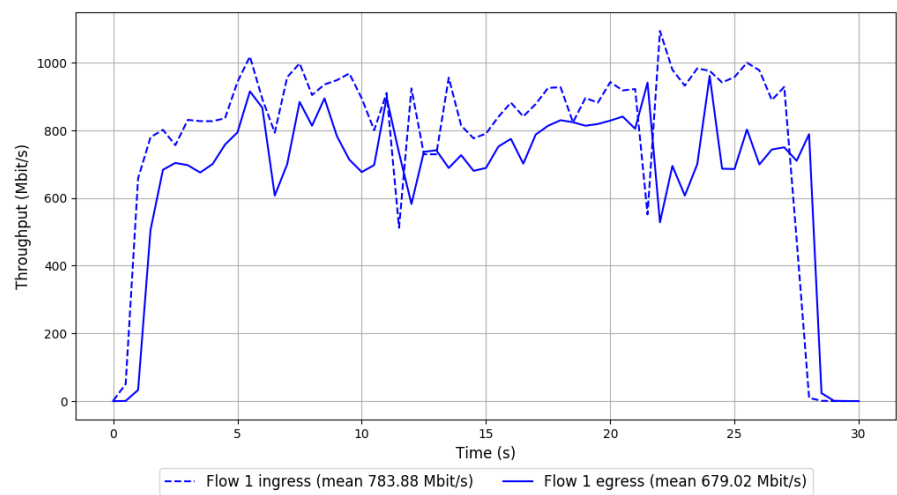
-- Flow 1:

Average throughput: 679.02 Mbit/s

95th percentile per-packet one-way delay: 274.286 ms

Loss rate: 13.73%

Run 6: Report of FillP-Sheep — Data Link

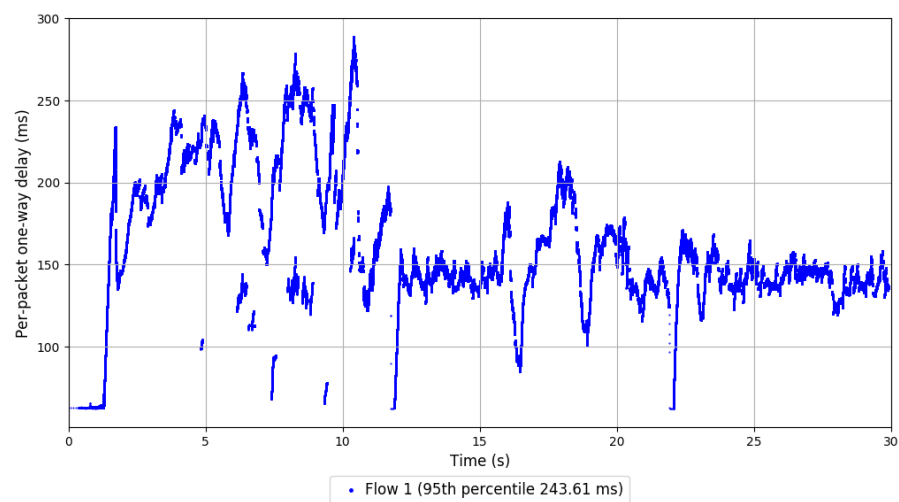
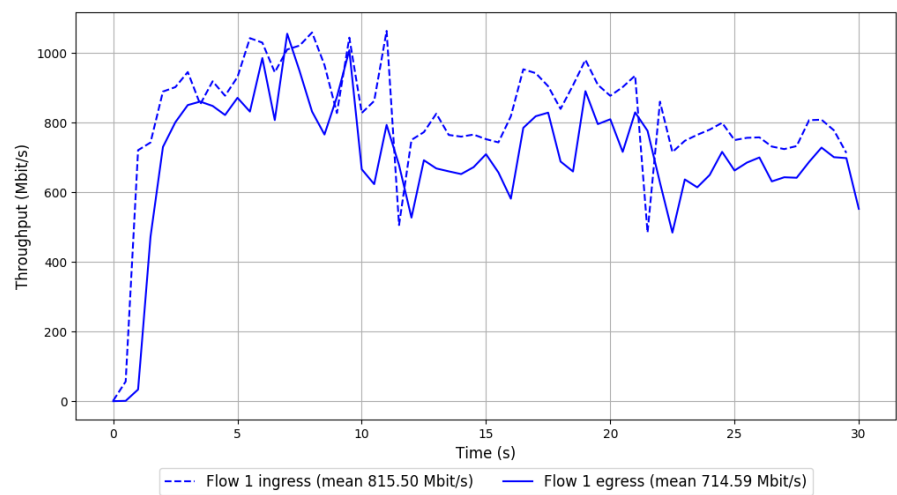


Run 7: Statistics of FillP-Sheep

Start at: 2018-07-05 01:34:21
End at: 2018-07-05 01:34:51
Local clock offset: -0.355 ms
Remote clock offset: -1.256 ms

Below is generated by plot.py at 2018-07-05 04:06:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 714.59 Mbit/s
95th percentile per-packet one-way delay: 243.613 ms
Loss rate: 12.73%
-- Flow 1:
Average throughput: 714.59 Mbit/s
95th percentile per-packet one-way delay: 243.613 ms
Loss rate: 12.73%

Run 7: Report of FillP-Sheep — Data Link

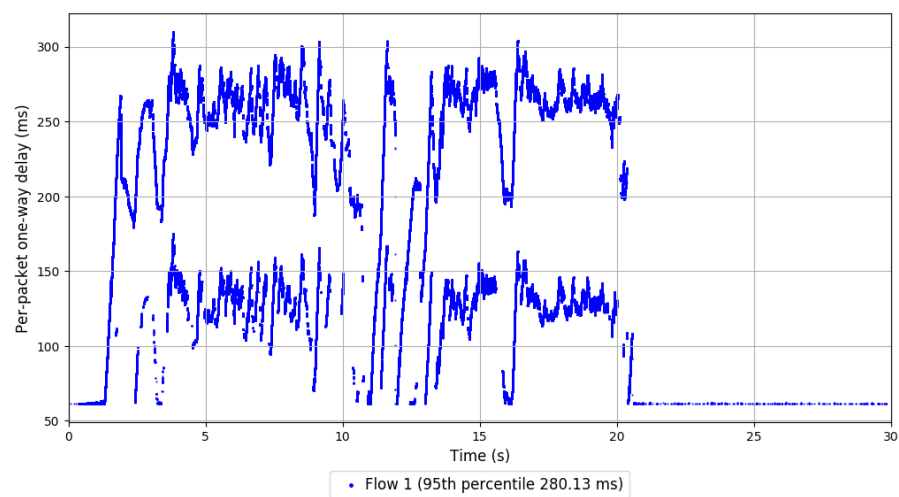
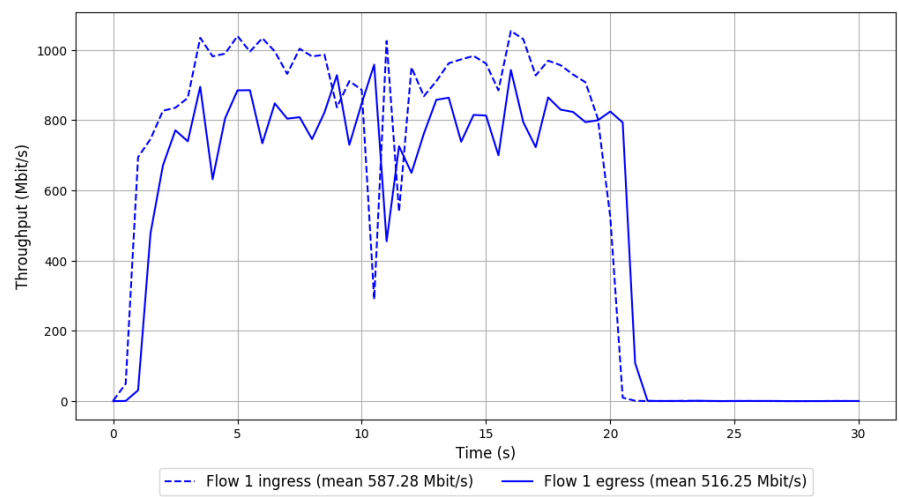


Run 8: Statistics of FillP-Sheep

Start at: 2018-07-05 01:56:49
End at: 2018-07-05 01:57:19
Local clock offset: -0.361 ms
Remote clock offset: -0.199 ms

Below is generated by plot.py at 2018-07-05 04:06:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 516.25 Mbit/s
95th percentile per-packet one-way delay: 280.135 ms
Loss rate: 12.50%
-- Flow 1:
Average throughput: 516.25 Mbit/s
95th percentile per-packet one-way delay: 280.135 ms
Loss rate: 12.50%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-05 02:19:06

End at: 2018-07-05 02:19:36

Local clock offset: -0.404 ms

Remote clock offset: 0.394 ms

Below is generated by plot.py at 2018-07-05 04:06:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.63 Mbit/s

95th percentile per-packet one-way delay: 276.565 ms

Loss rate: 6.61%

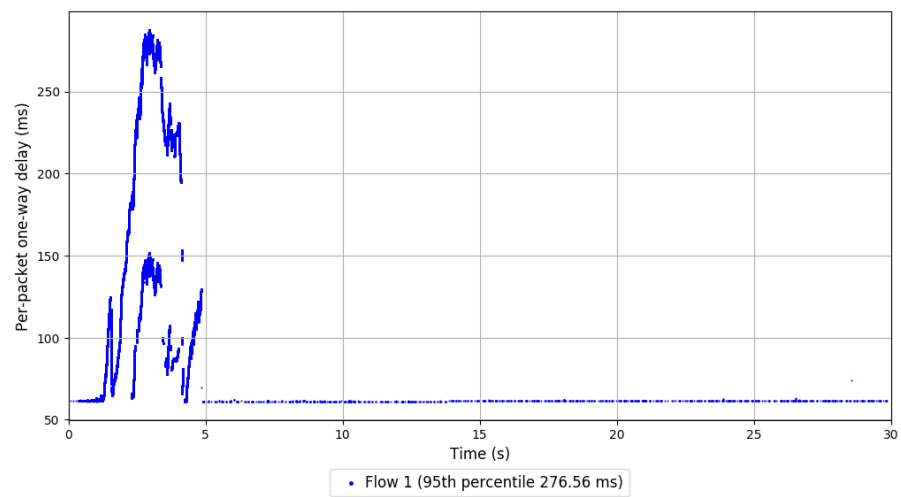
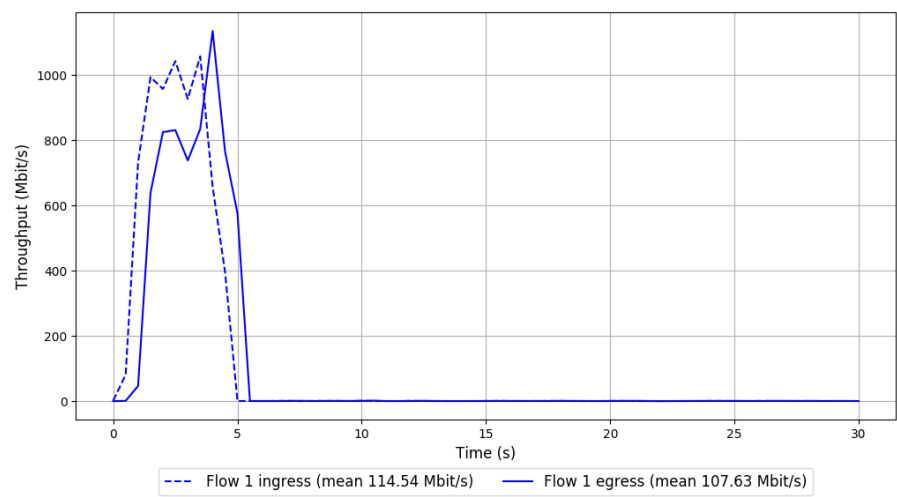
-- Flow 1:

Average throughput: 107.63 Mbit/s

95th percentile per-packet one-way delay: 276.565 ms

Loss rate: 6.61%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-07-05 02:41:05

End at: 2018-07-05 02:41:35

Local clock offset: -0.427 ms

Remote clock offset: 0.156 ms

Below is generated by plot.py at 2018-07-05 04:14:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 766.87 Mbit/s

95th percentile per-packet one-way delay: 269.510 ms

Loss rate: 9.16%

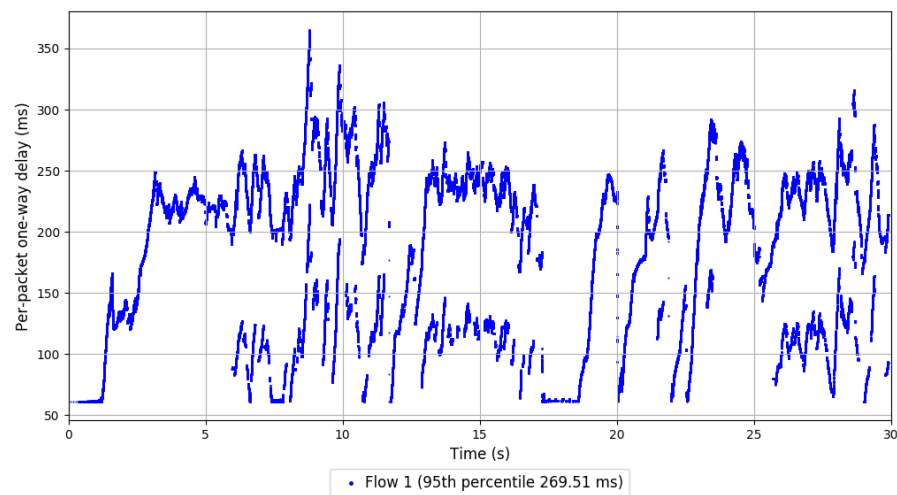
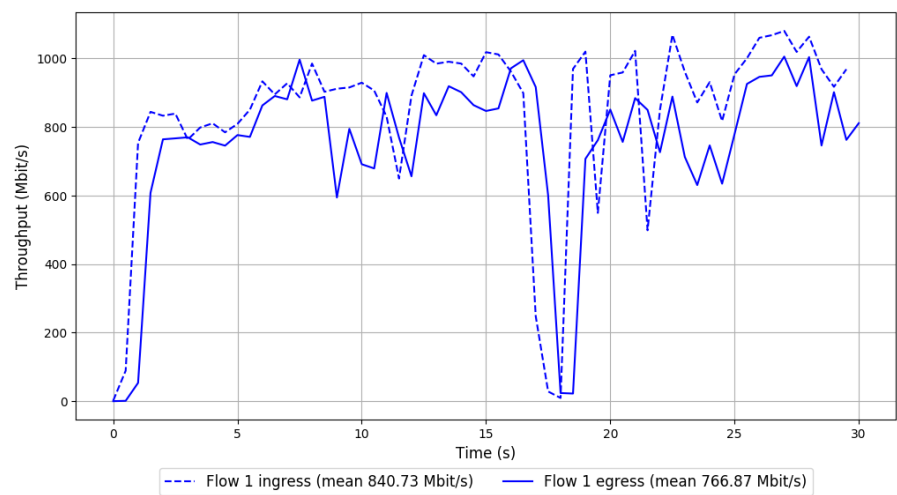
-- Flow 1:

Average throughput: 766.87 Mbit/s

95th percentile per-packet one-way delay: 269.510 ms

Loss rate: 9.16%

Run 10: Report of FillP-Sheep — Data Link

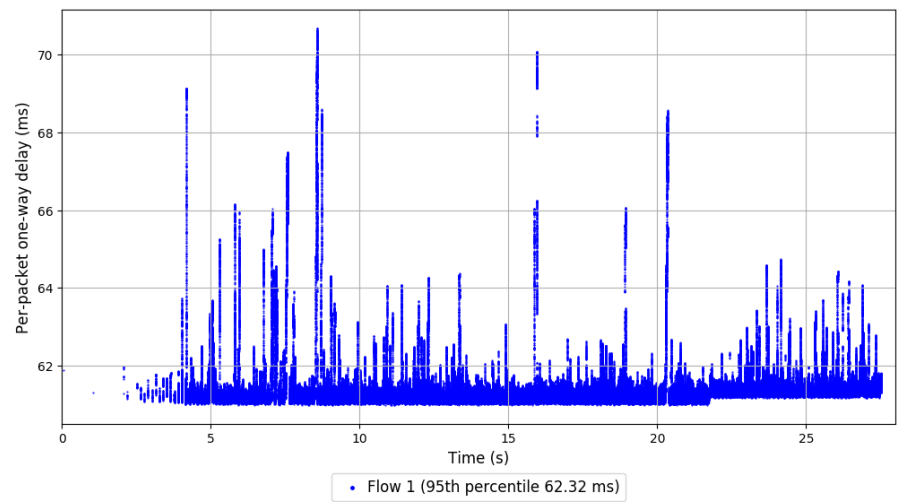
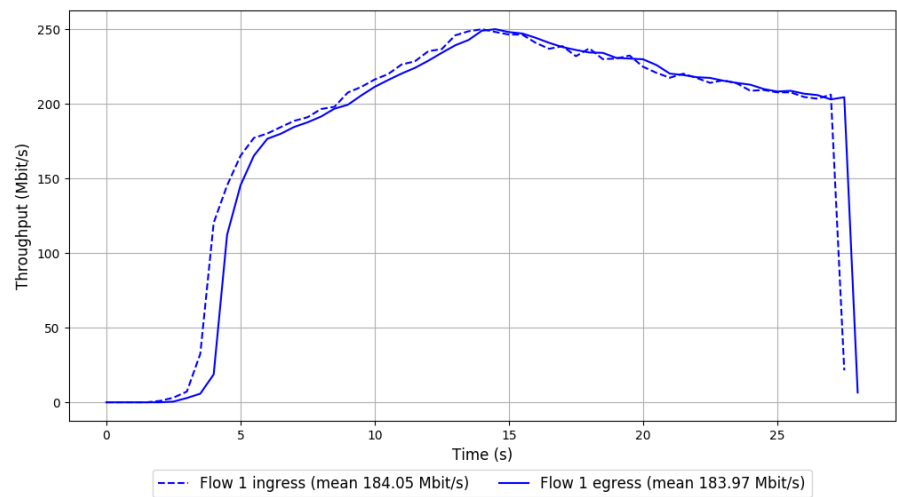


Run 1: Statistics of Indigo

Start at: 2018-07-04 23:07:16
End at: 2018-07-04 23:07:46
Local clock offset: -0.205 ms
Remote clock offset: -0.179 ms

Below is generated by plot.py at 2018-07-05 04:14:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 183.97 Mbit/s
95th percentile per-packet one-way delay: 62.322 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 183.97 Mbit/s
95th percentile per-packet one-way delay: 62.322 ms
Loss rate: 0.49%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-07-04 23:29:33

End at: 2018-07-04 23:30:03

Local clock offset: -0.209 ms

Remote clock offset: 0.115 ms

Below is generated by plot.py at 2018-07-05 04:14:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.40 Mbit/s

95th percentile per-packet one-way delay: 62.252 ms

Loss rate: 0.43%

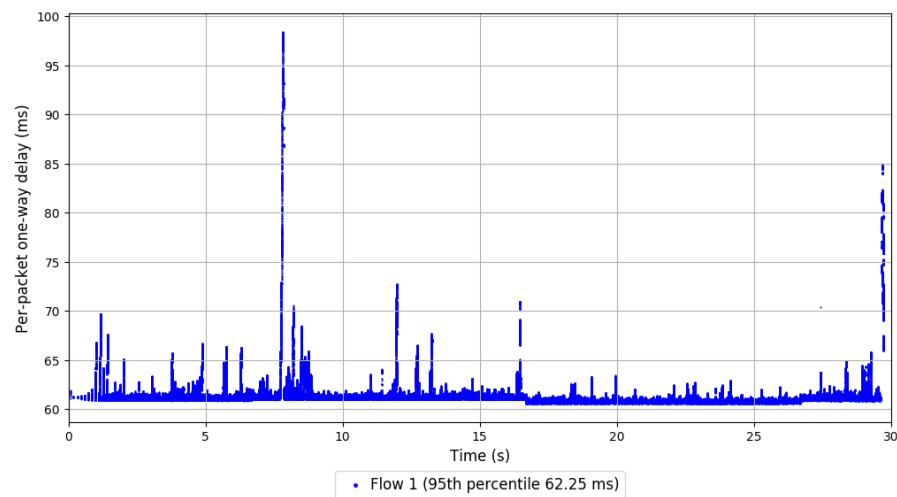
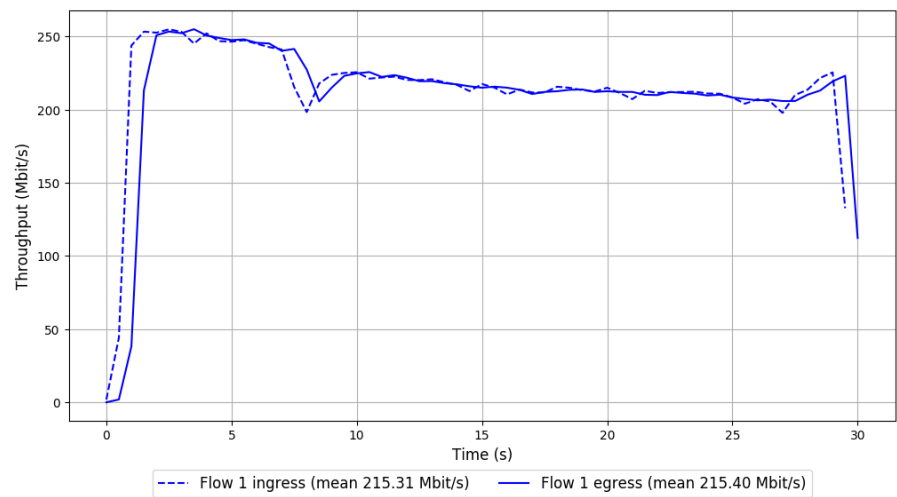
-- Flow 1:

Average throughput: 215.40 Mbit/s

95th percentile per-packet one-way delay: 62.252 ms

Loss rate: 0.43%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-07-04 23:52:00

End at: 2018-07-04 23:52:30

Local clock offset: -0.224 ms

Remote clock offset: 0.157 ms

Below is generated by plot.py at 2018-07-05 04:14:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.82 Mbit/s

95th percentile per-packet one-way delay: 62.253 ms

Loss rate: 0.41%

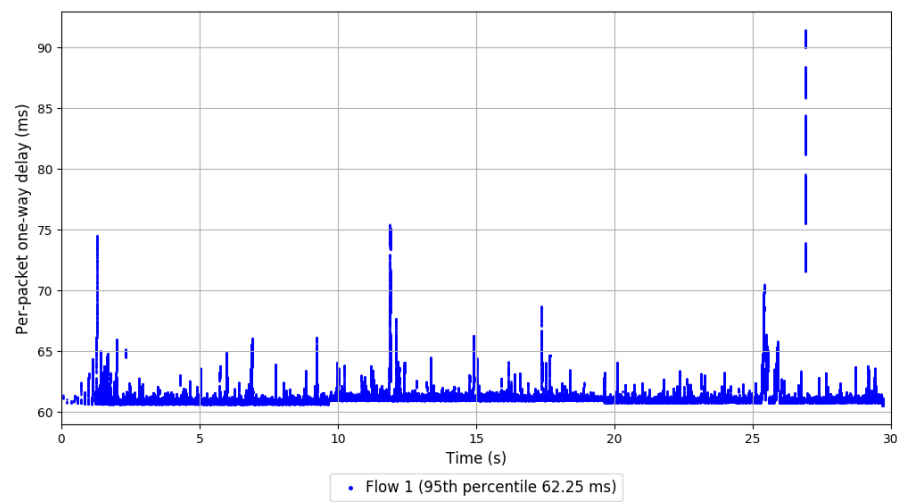
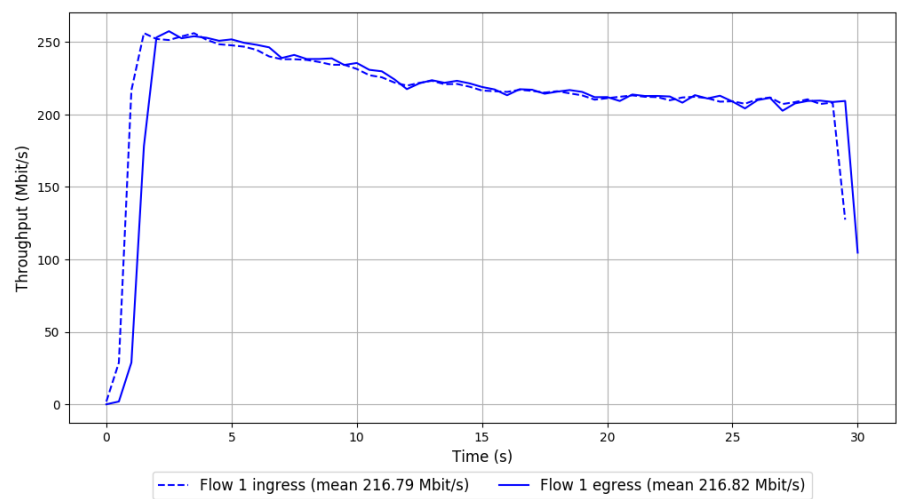
-- Flow 1:

Average throughput: 216.82 Mbit/s

95th percentile per-packet one-way delay: 62.253 ms

Loss rate: 0.41%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-05 00:14:12

End at: 2018-07-05 00:14:42

Local clock offset: -0.284 ms

Remote clock offset: 1.298 ms

Below is generated by plot.py at 2018-07-05 04:14:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.27 Mbit/s

95th percentile per-packet one-way delay: 60.584 ms

Loss rate: 0.41%

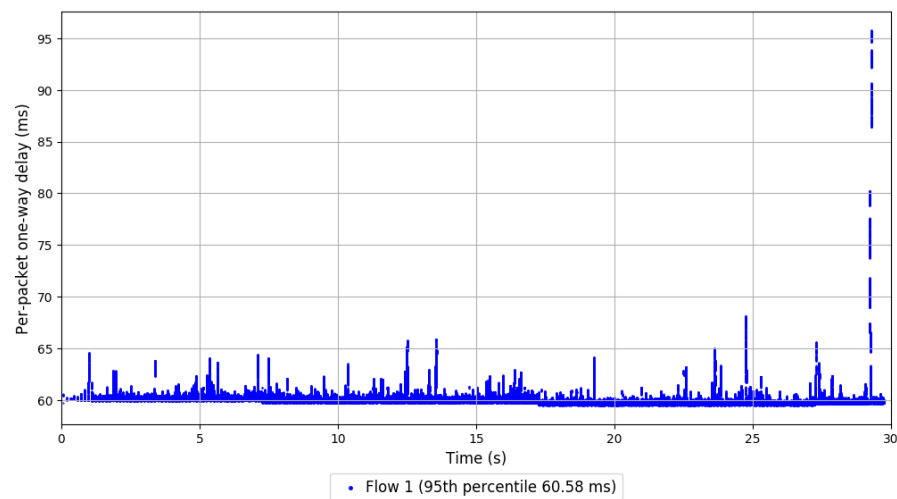
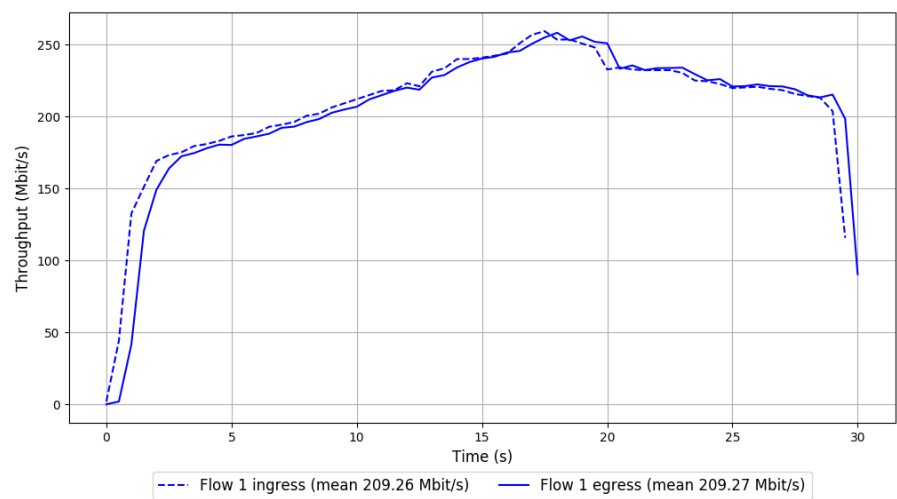
-- Flow 1:

Average throughput: 209.27 Mbit/s

95th percentile per-packet one-way delay: 60.584 ms

Loss rate: 0.41%

Run 4: Report of Indigo — Data Link

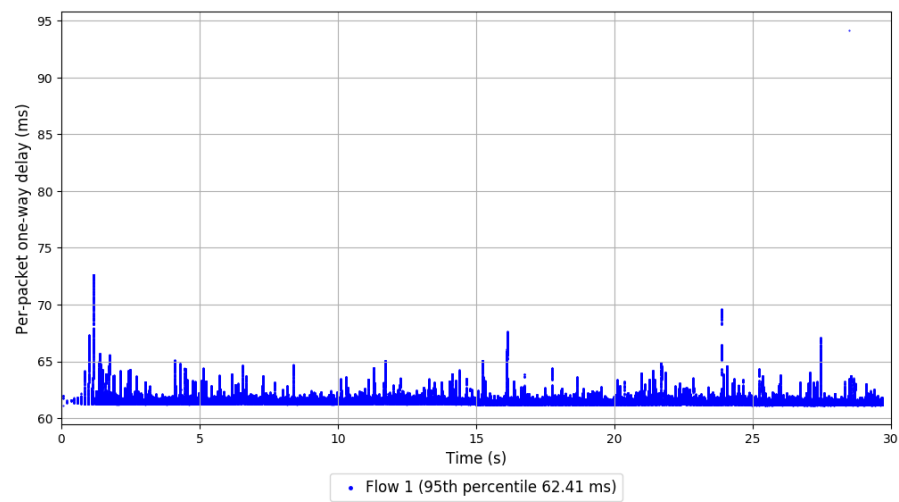
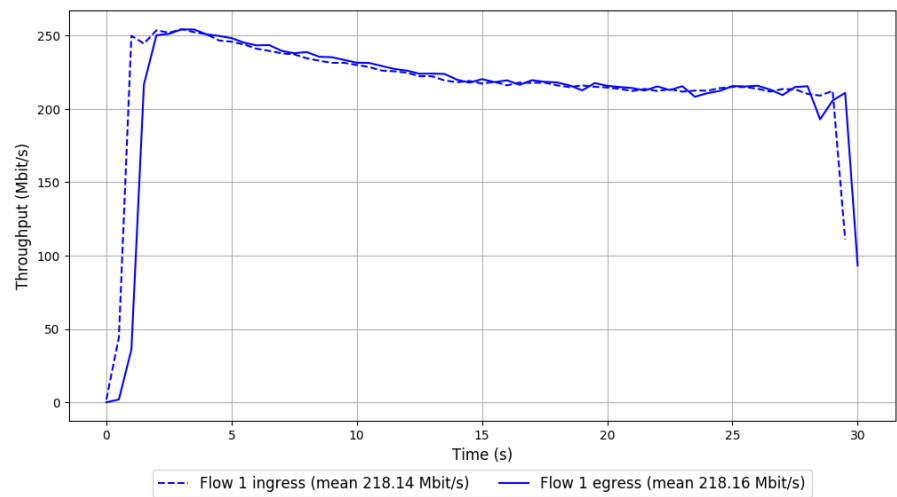


Run 5: Statistics of Indigo

Start at: 2018-07-05 00:36:25
End at: 2018-07-05 00:36:55
Local clock offset: -0.281 ms
Remote clock offset: -0.176 ms

Below is generated by plot.py at 2018-07-05 04:14:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 218.16 Mbit/s
95th percentile per-packet one-way delay: 62.411 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 218.16 Mbit/s
95th percentile per-packet one-way delay: 62.411 ms
Loss rate: 0.41%

Run 5: Report of Indigo — Data Link

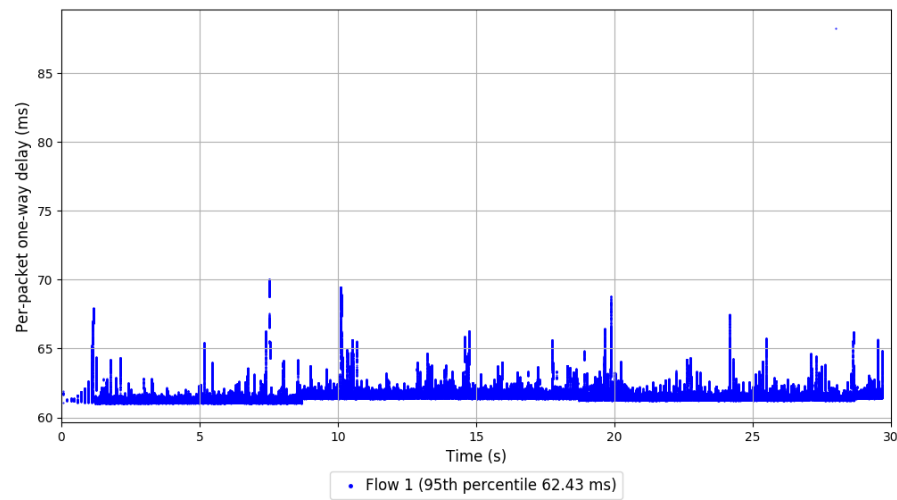
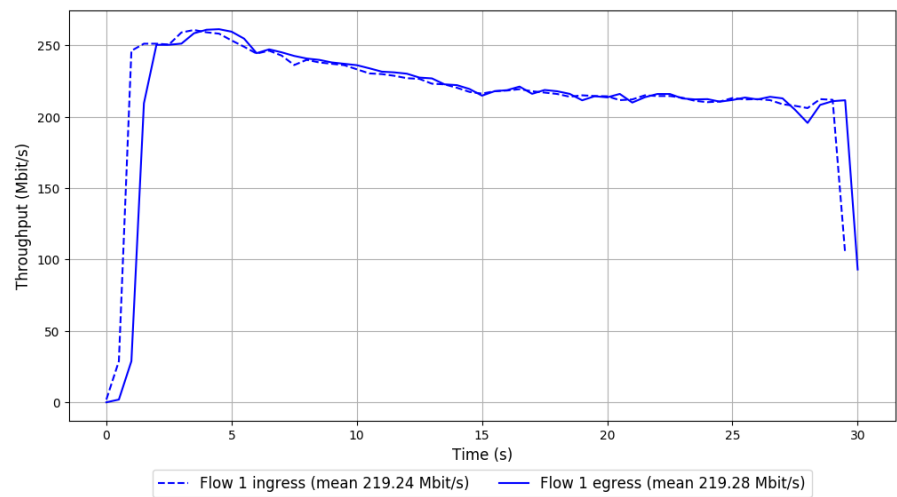


Run 6: Statistics of Indigo

Start at: 2018-07-05 00:58:41
End at: 2018-07-05 00:59:11
Local clock offset: -0.251 ms
Remote clock offset: -0.089 ms

Below is generated by plot.py at 2018-07-05 04:14:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 219.28 Mbit/s
95th percentile per-packet one-way delay: 62.432 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 219.28 Mbit/s
95th percentile per-packet one-way delay: 62.432 ms
Loss rate: 0.39%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-05 01:21:11

End at: 2018-07-05 01:21:41

Local clock offset: -0.339 ms

Remote clock offset: 0.077 ms

Below is generated by plot.py at 2018-07-05 04:14:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.73 Mbit/s

95th percentile per-packet one-way delay: 61.923 ms

Loss rate: 0.38%

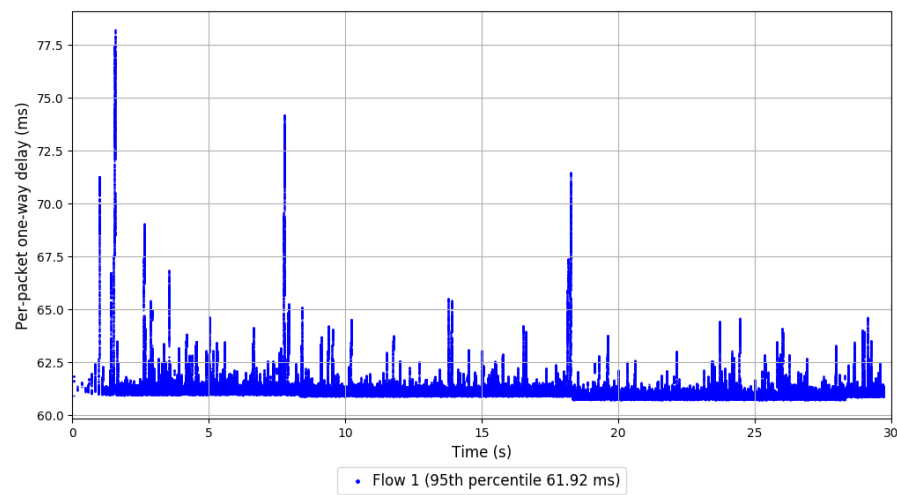
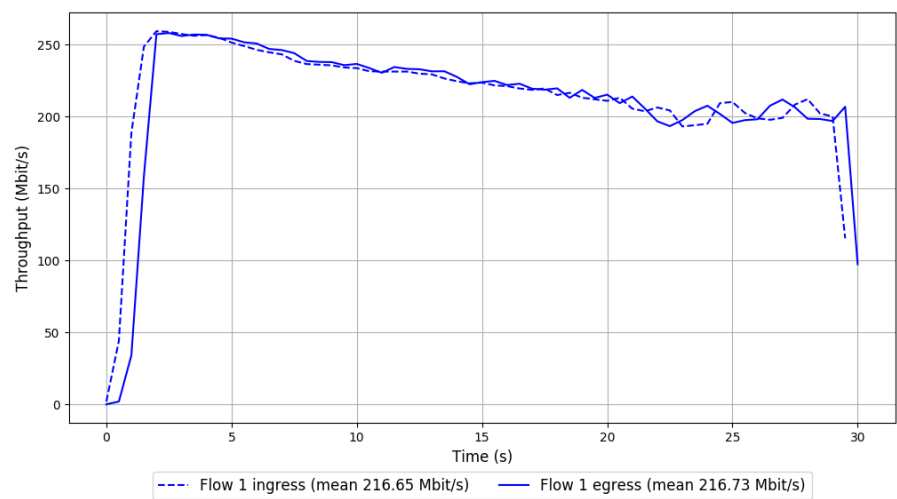
-- Flow 1:

Average throughput: 216.73 Mbit/s

95th percentile per-packet one-way delay: 61.923 ms

Loss rate: 0.38%

Run 7: Report of Indigo — Data Link

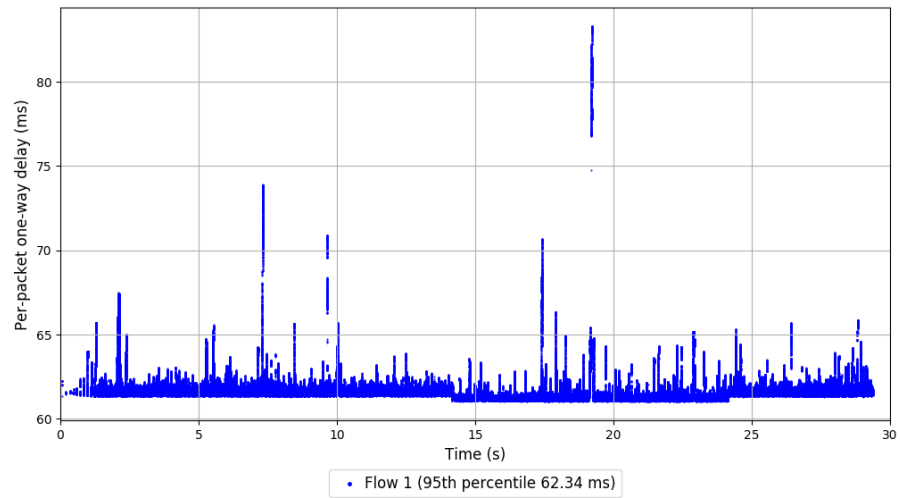
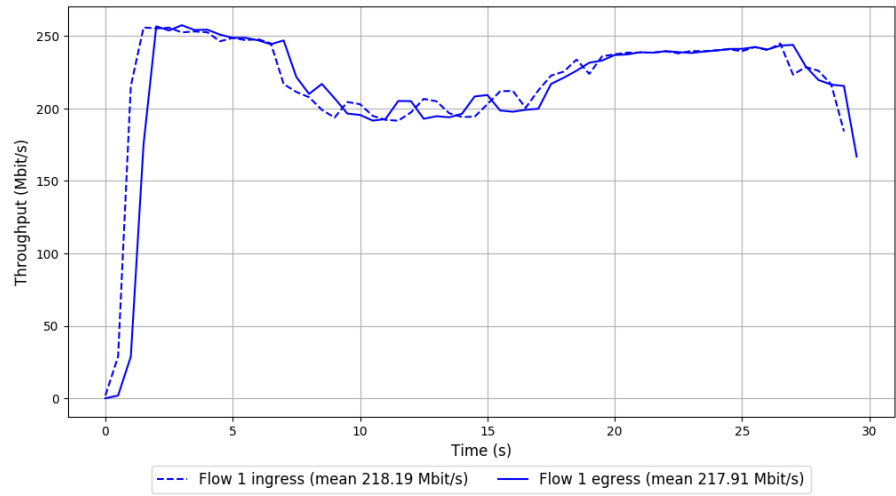


Run 8: Statistics of Indigo

Start at: 2018-07-05 01:43:35
End at: 2018-07-05 01:44:05
Local clock offset: -0.384 ms
Remote clock offset: -0.237 ms

Below is generated by plot.py at 2018-07-05 04:14:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 217.91 Mbit/s
95th percentile per-packet one-way delay: 62.336 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 217.91 Mbit/s
95th percentile per-packet one-way delay: 62.336 ms
Loss rate: 0.43%

Run 8: Report of Indigo — Data Link

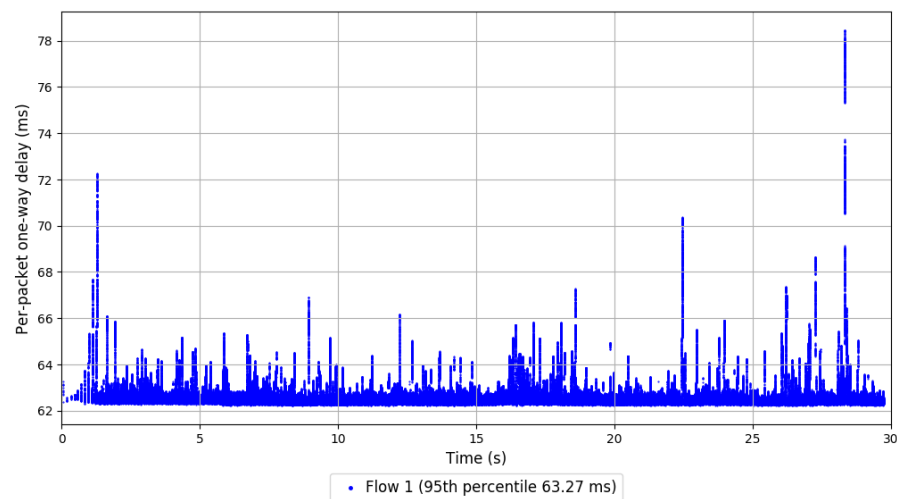
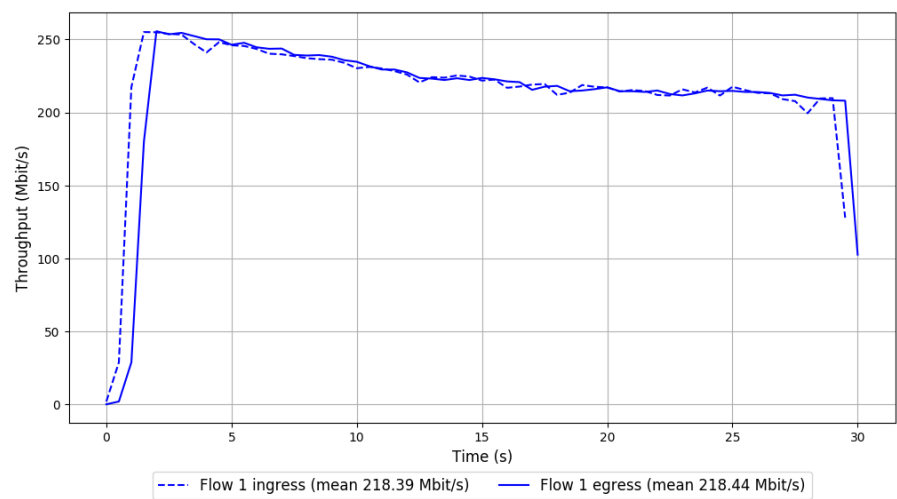


Run 9: Statistics of Indigo

Start at: 2018-07-05 02:05:54
End at: 2018-07-05 02:06:24
Local clock offset: -0.378 ms
Remote clock offset: -0.995 ms

Below is generated by plot.py at 2018-07-05 04:14:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 218.44 Mbit/s
95th percentile per-packet one-way delay: 63.266 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 218.44 Mbit/s
95th percentile per-packet one-way delay: 63.266 ms
Loss rate: 0.39%

Run 9: Report of Indigo — Data Link

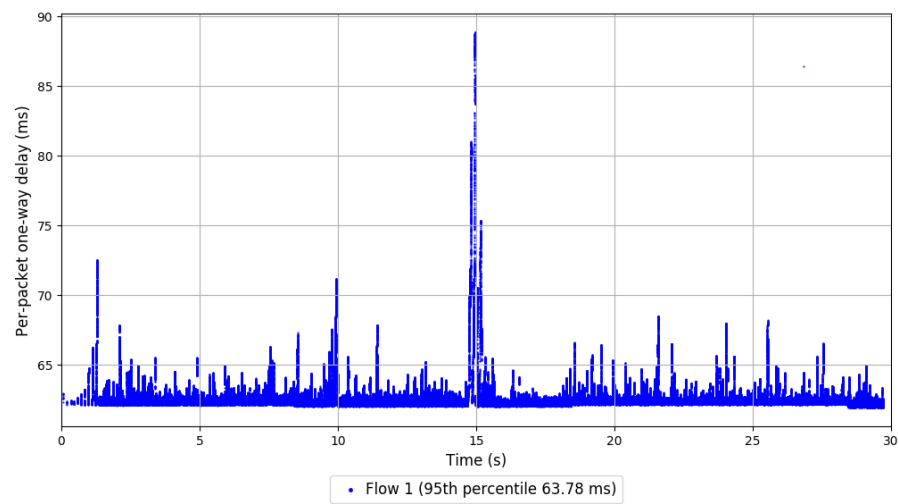
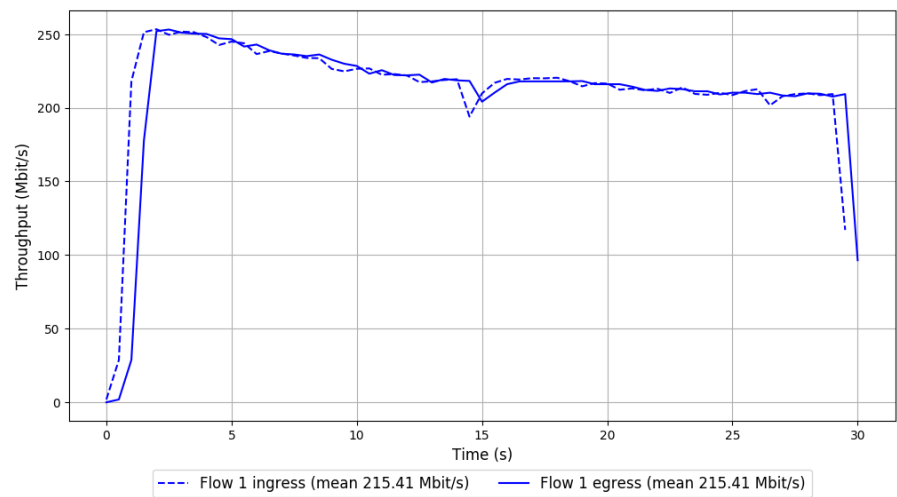


Run 10: Statistics of Indigo

Start at: 2018-07-05 02:27:51
End at: 2018-07-05 02:28:21
Local clock offset: -0.485 ms
Remote clock offset: -0.804 ms

Below is generated by plot.py at 2018-07-05 04:14:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 215.41 Mbit/s
95th percentile per-packet one-way delay: 63.777 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 215.41 Mbit/s
95th percentile per-packet one-way delay: 63.777 ms
Loss rate: 0.41%

Run 10: Report of Indigo — Data Link

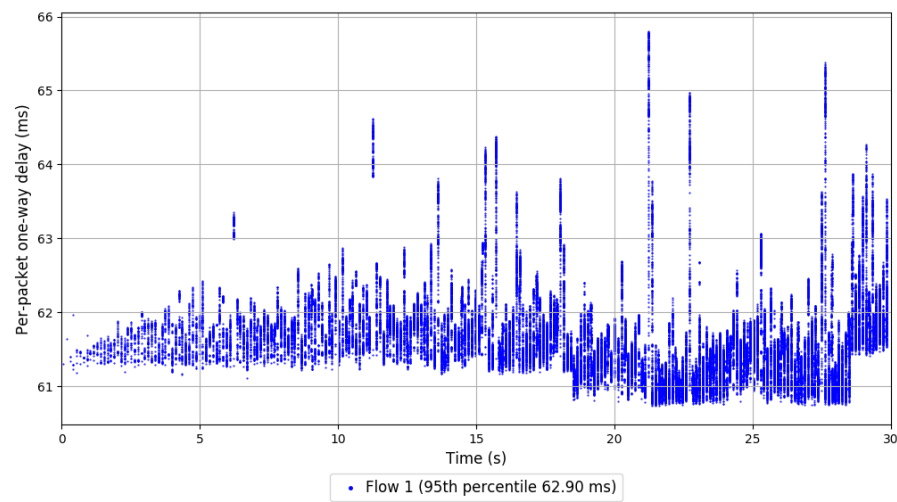
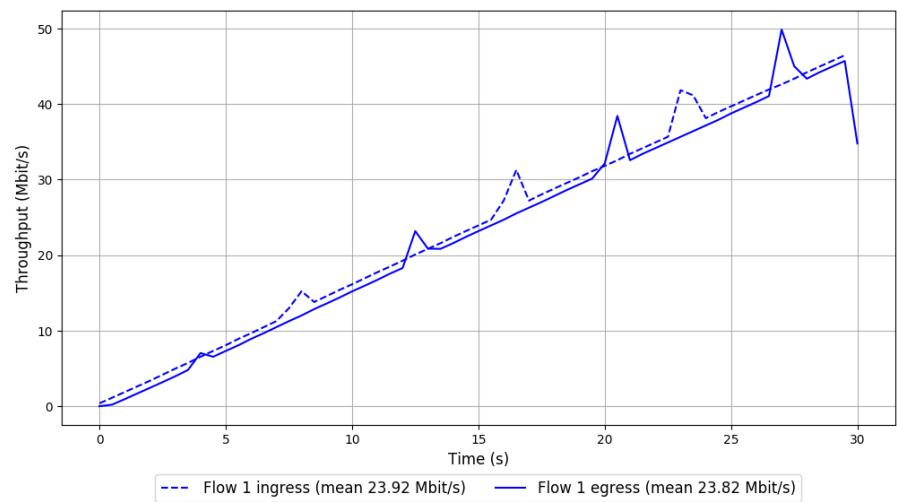


Run 1: Statistics of LEDBAT

Start at: 2018-07-04 23:27:01
End at: 2018-07-04 23:27:31
Local clock offset: -0.176 ms
Remote clock offset: -0.001 ms

Below is generated by plot.py at 2018-07-05 04:14:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 23.82 Mbit/s
95th percentile per-packet one-way delay: 62.897 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 23.82 Mbit/s
95th percentile per-packet one-way delay: 62.897 ms
Loss rate: 0.82%

Run 1: Report of LEDBAT — Data Link

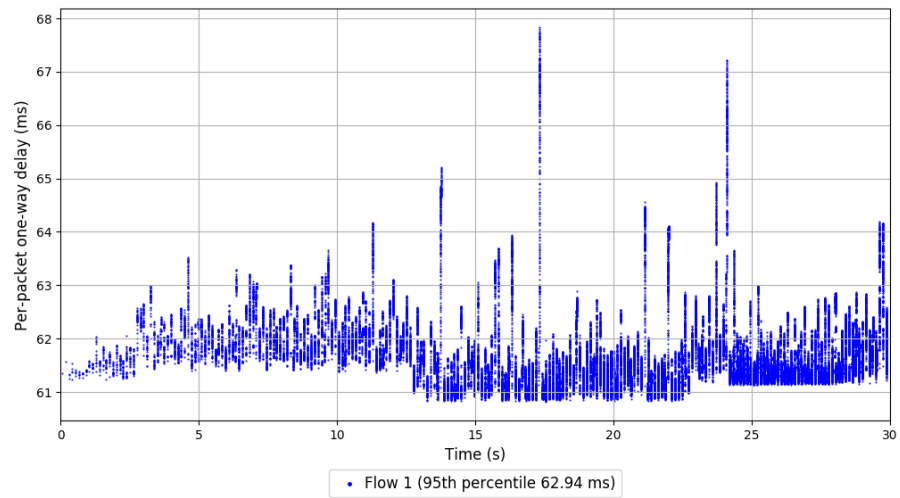
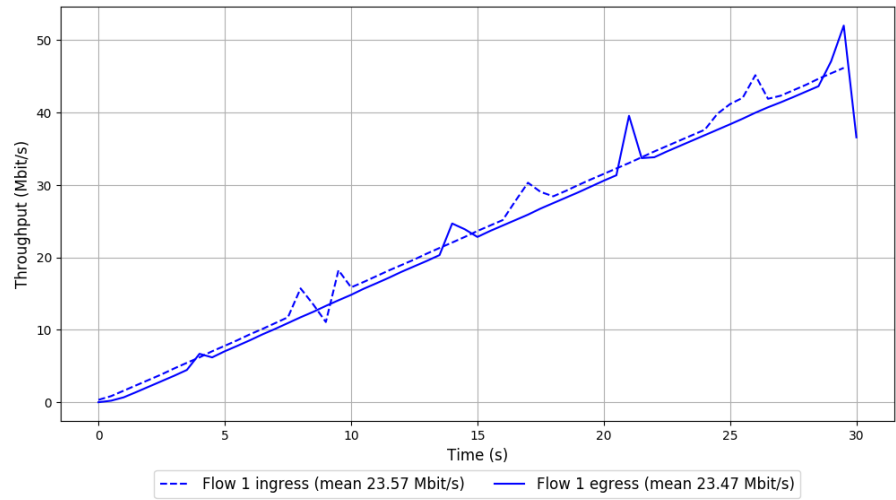


Run 2: Statistics of LEDBAT

Start at: 2018-07-04 23:49:27
End at: 2018-07-04 23:49:57
Local clock offset: -0.164 ms
Remote clock offset: -0.111 ms

Below is generated by plot.py at 2018-07-05 04:14:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 23.47 Mbit/s
95th percentile per-packet one-way delay: 62.943 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 23.47 Mbit/s
95th percentile per-packet one-way delay: 62.943 ms
Loss rate: 0.82%

Run 2: Report of LEDBAT — Data Link

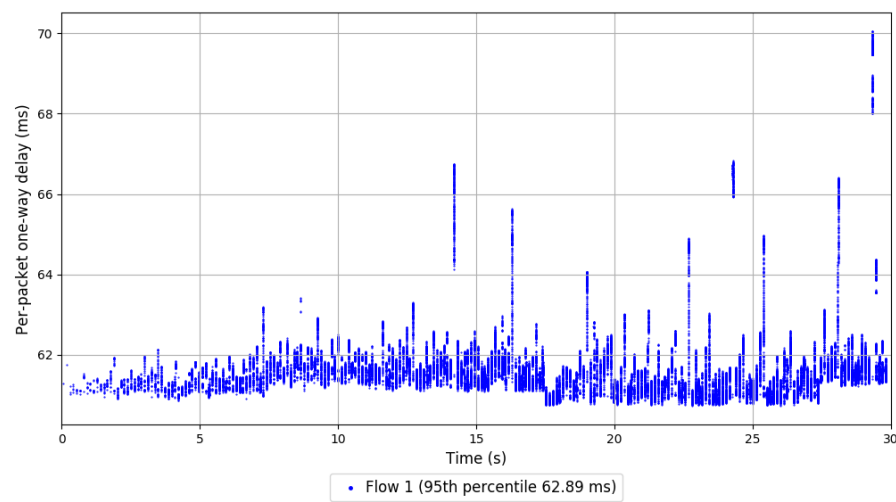
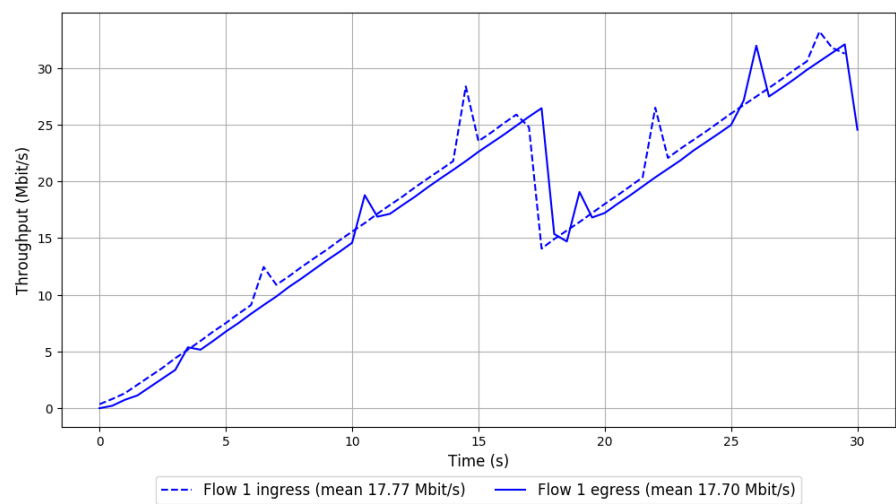


Run 3: Statistics of LEDBAT

Start at: 2018-07-05 00:11:42
End at: 2018-07-05 00:12:12
Local clock offset: -0.247 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2018-07-05 04:14:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 17.70 Mbit/s
95th percentile per-packet one-way delay: 62.889 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 17.70 Mbit/s
95th percentile per-packet one-way delay: 62.889 ms
Loss rate: 0.78%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-07-05 00:33:49

End at: 2018-07-05 00:34:19

Local clock offset: -0.288 ms

Remote clock offset: 1.311 ms

Below is generated by plot.py at 2018-07-05 04:14:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.52 Mbit/s

95th percentile per-packet one-way delay: 61.613 ms

Loss rate: 0.82%

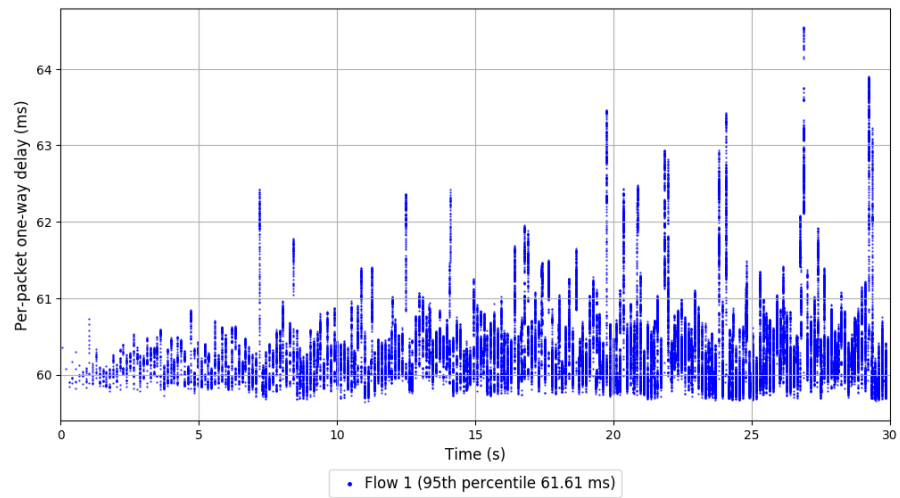
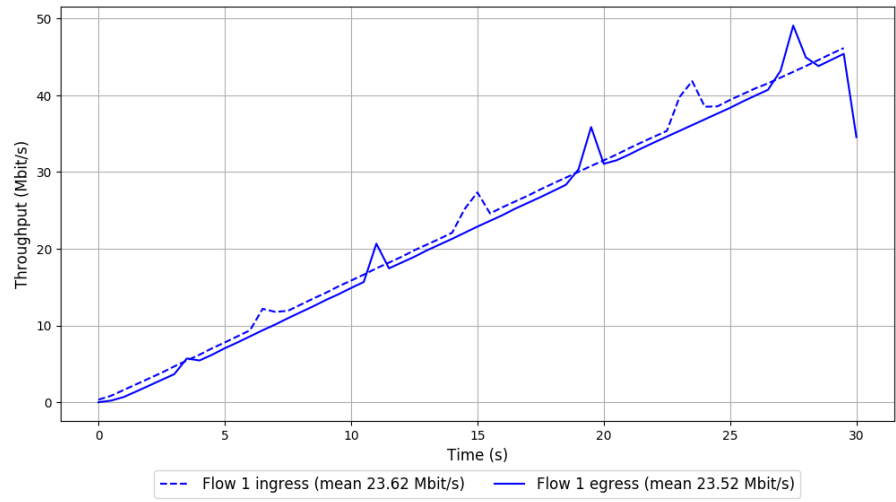
-- Flow 1:

Average throughput: 23.52 Mbit/s

95th percentile per-packet one-way delay: 61.613 ms

Loss rate: 0.82%

Run 4: Report of LEDBAT — Data Link

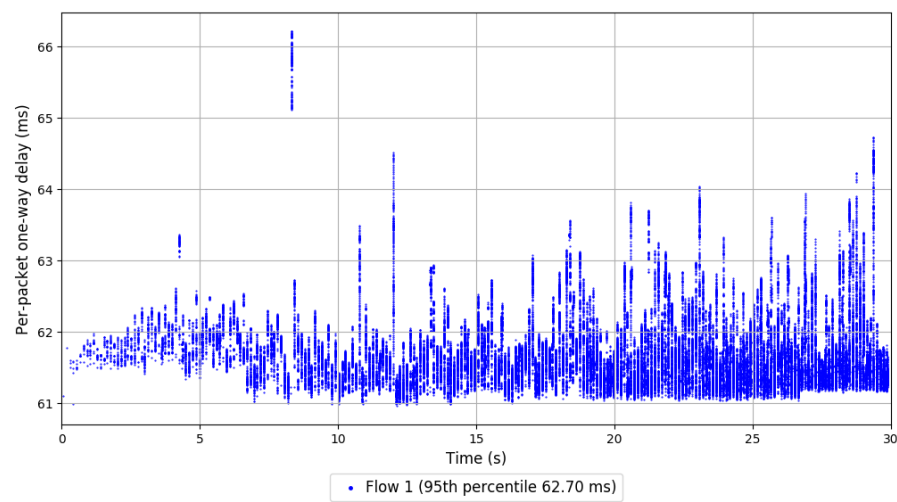
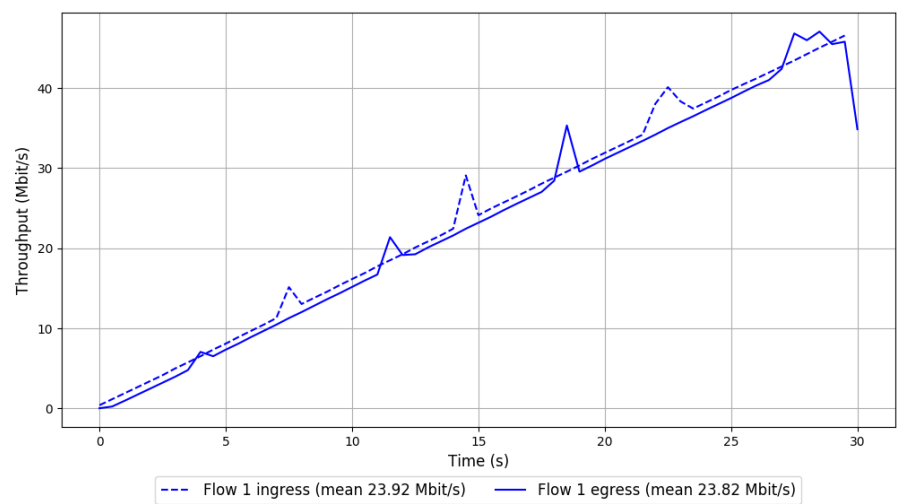


Run 5: Statistics of LEDBAT

Start at: 2018-07-05 00:56:13
End at: 2018-07-05 00:56:43
Local clock offset: -0.258 ms
Remote clock offset: -0.046 ms

Below is generated by plot.py at 2018-07-05 04:14:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 23.82 Mbit/s
95th percentile per-packet one-way delay: 62.696 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 23.82 Mbit/s
95th percentile per-packet one-way delay: 62.696 ms
Loss rate: 0.82%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-05 01:18:39

End at: 2018-07-05 01:19:09

Local clock offset: -0.354 ms

Remote clock offset: -0.22 ms

Below is generated by plot.py at 2018-07-05 04:14:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.81 Mbit/s

95th percentile per-packet one-way delay: 63.473 ms

Loss rate: 0.82%

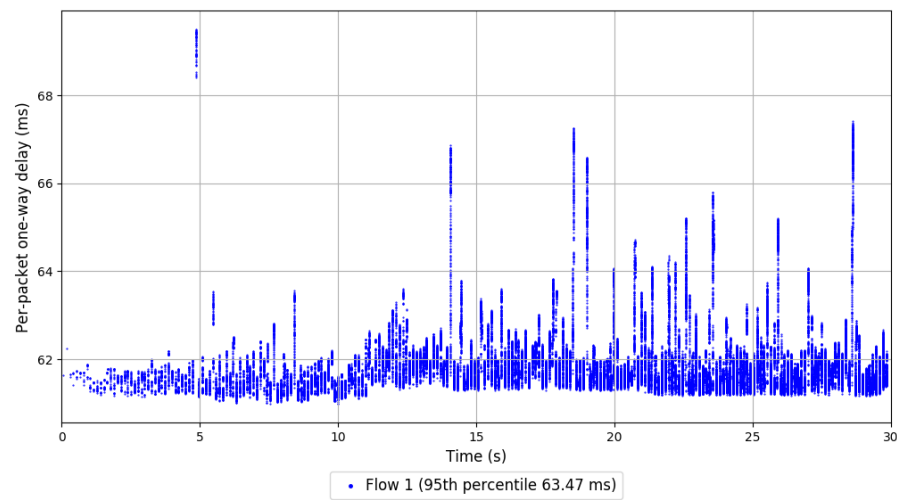
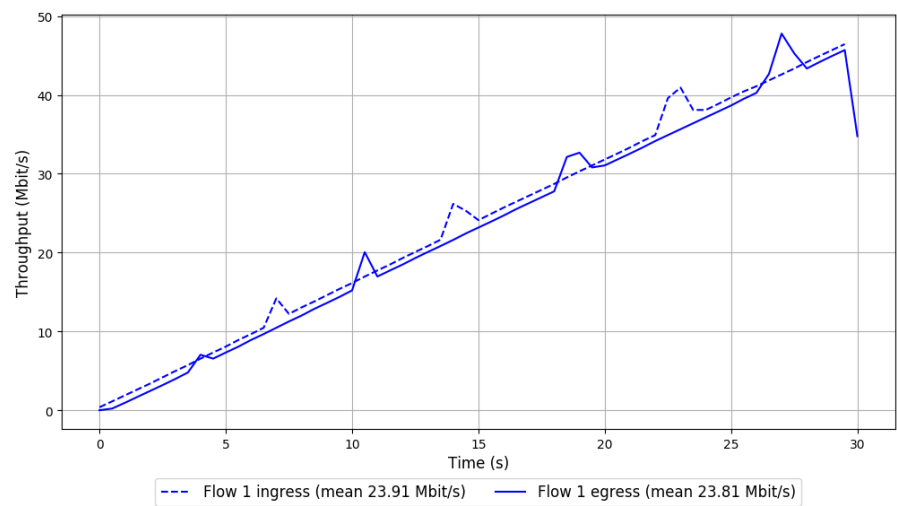
-- Flow 1:

Average throughput: 23.81 Mbit/s

95th percentile per-packet one-way delay: 63.473 ms

Loss rate: 0.82%

Run 6: Report of LEDBAT — Data Link

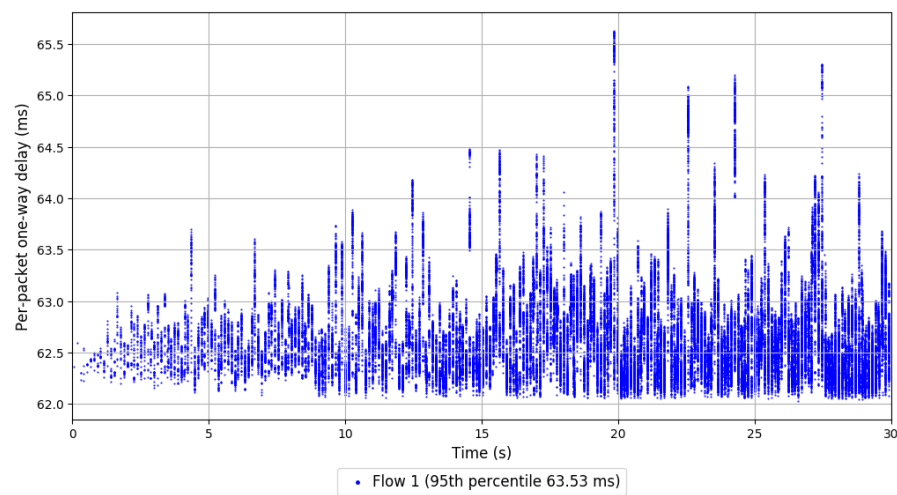
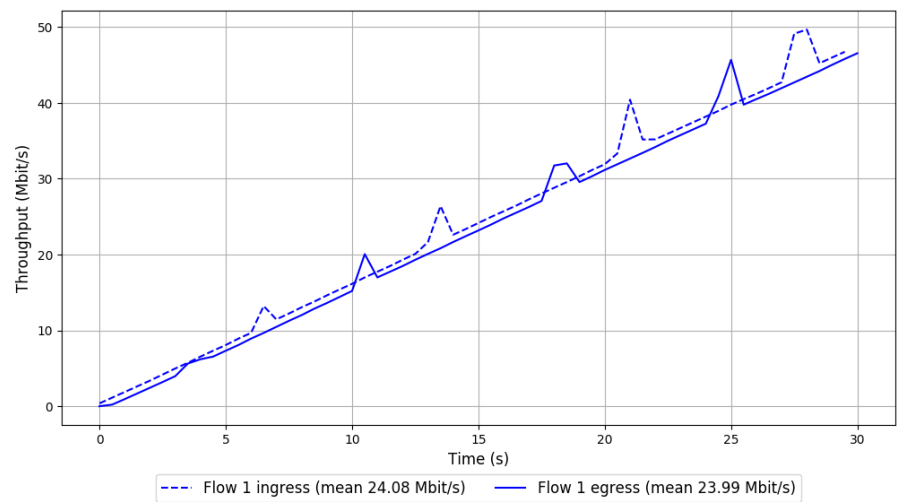


Run 7: Statistics of LEDBAT

Start at: 2018-07-05 01:41:04
End at: 2018-07-05 01:41:34
Local clock offset: -0.367 ms
Remote clock offset: -1.232 ms

Below is generated by plot.py at 2018-07-05 04:14:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 23.99 Mbit/s
95th percentile per-packet one-way delay: 63.526 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 23.99 Mbit/s
95th percentile per-packet one-way delay: 63.526 ms
Loss rate: 0.81%

Run 7: Report of LEDBAT — Data Link

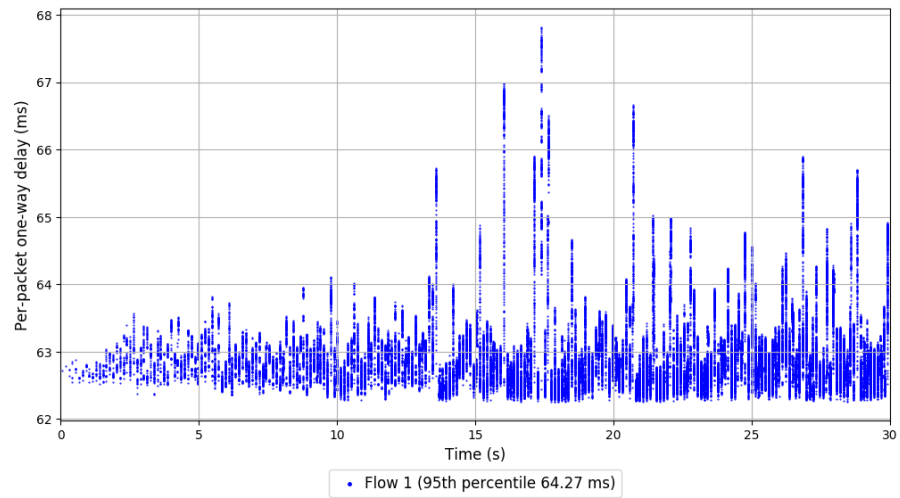
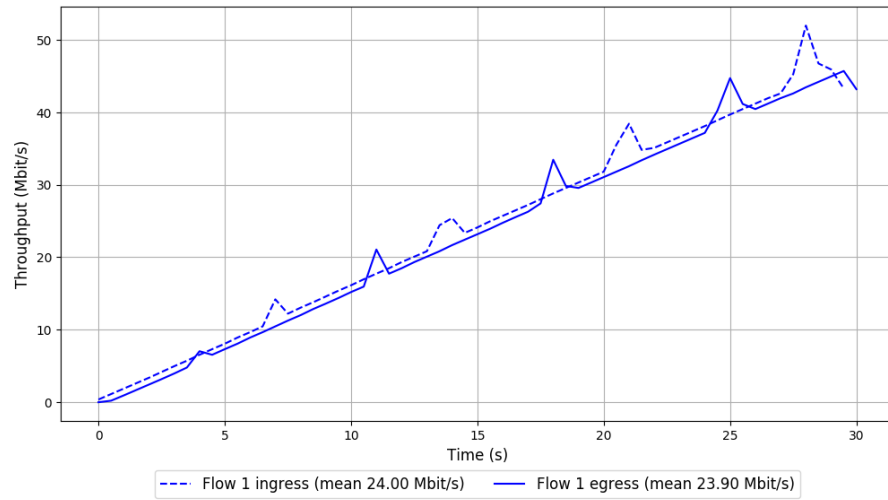


Run 8: Statistics of LEDBAT

Start at: 2018-07-05 02:03:24
End at: 2018-07-05 02:03:54
Local clock offset: -0.403 ms
Remote clock offset: -1.076 ms

Below is generated by plot.py at 2018-07-05 04:14:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 23.90 Mbit/s
95th percentile per-packet one-way delay: 64.267 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 23.90 Mbit/s
95th percentile per-packet one-way delay: 64.267 ms
Loss rate: 0.81%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-05 02:25:20

End at: 2018-07-05 02:25:50

Local clock offset: -0.43 ms

Remote clock offset: 0.302 ms

Below is generated by plot.py at 2018-07-05 04:14:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.93 Mbit/s

95th percentile per-packet one-way delay: 62.919 ms

Loss rate: 0.83%

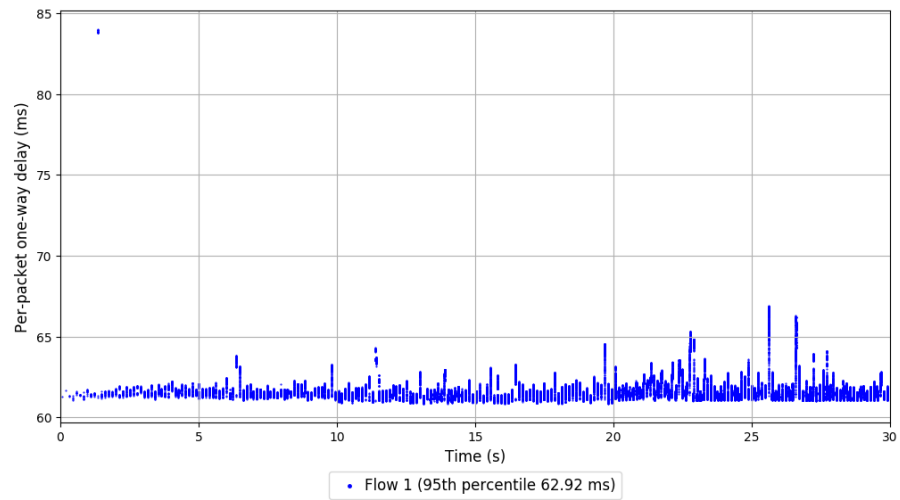
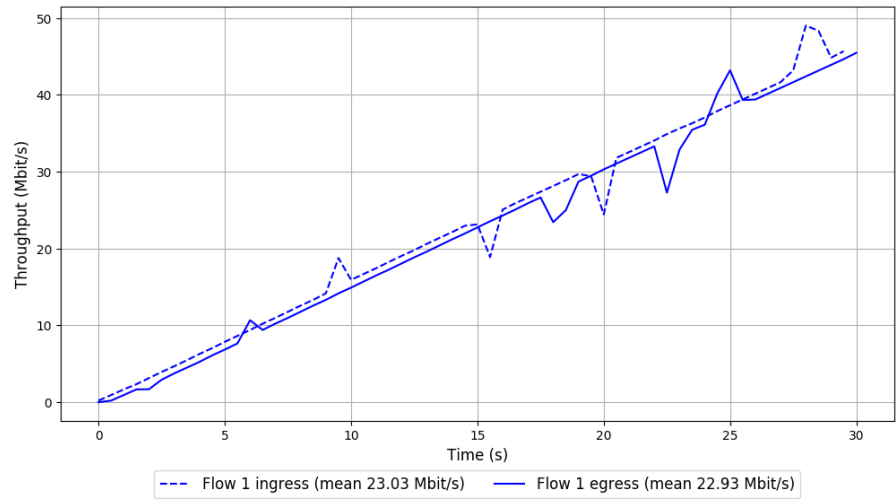
-- Flow 1:

Average throughput: 22.93 Mbit/s

95th percentile per-packet one-way delay: 62.919 ms

Loss rate: 0.83%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-05 02:47:48

End at: 2018-07-05 02:48:18

Local clock offset: -0.471 ms

Remote clock offset: 0.151 ms

Below is generated by plot.py at 2018-07-05 04:14:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.87 Mbit/s

95th percentile per-packet one-way delay: 63.189 ms

Loss rate: 0.81%

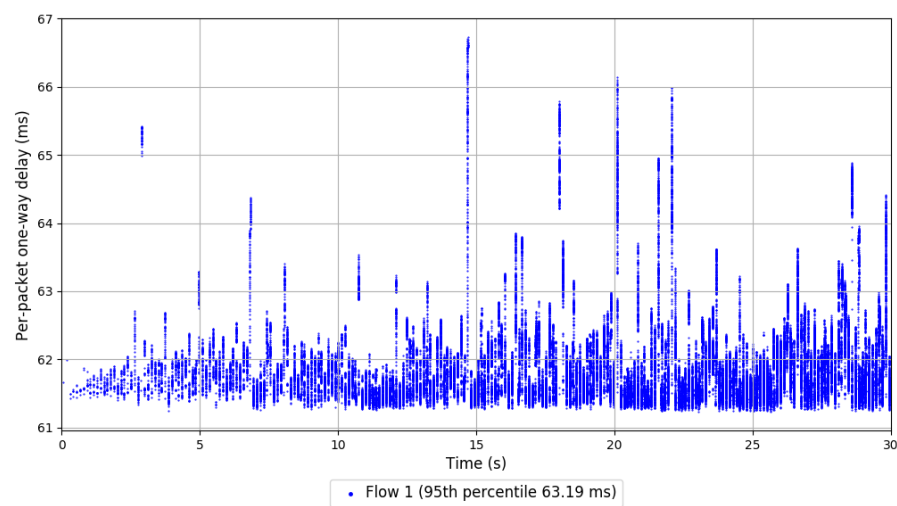
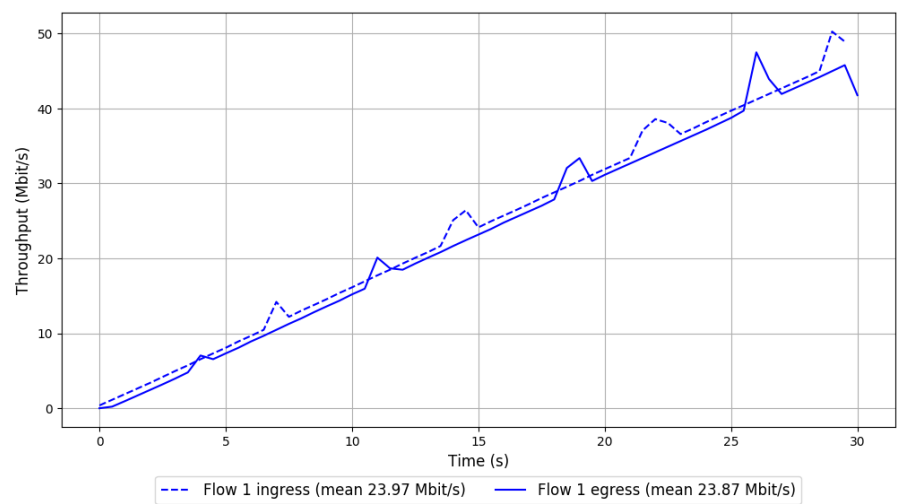
-- Flow 1:

Average throughput: 23.87 Mbit/s

95th percentile per-packet one-way delay: 63.189 ms

Loss rate: 0.81%

Run 10: Report of LEDBAT — Data Link

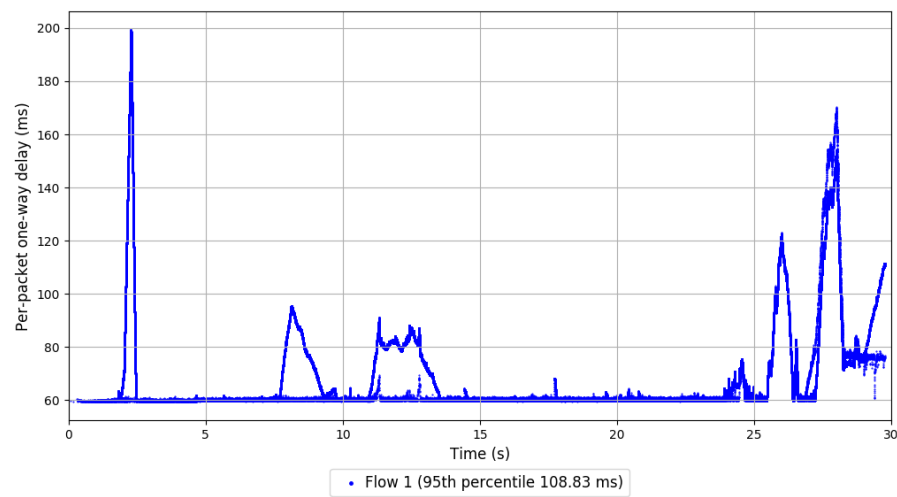
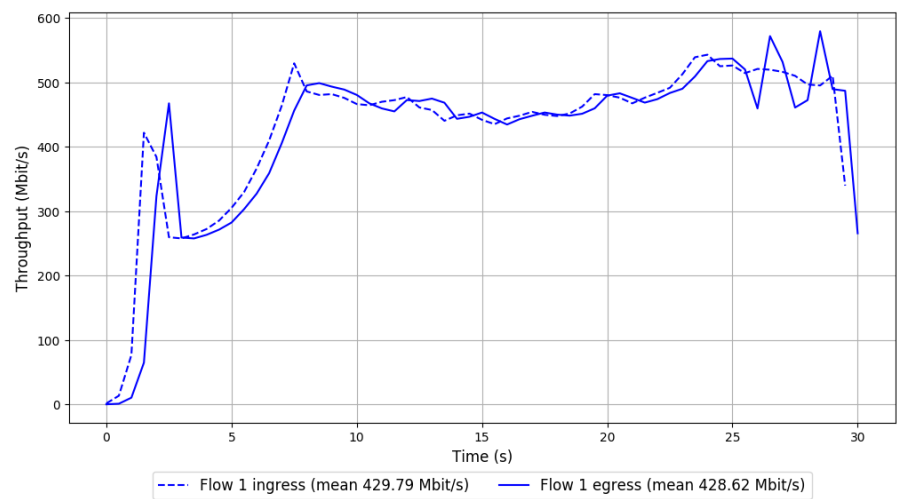


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-07-04 23:12:35
End at: 2018-07-04 23:13:05
Local clock offset: -0.217 ms
Remote clock offset: 1.323 ms

# Below is generated by plot.py at 2018-07-05 04:14:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 428.62 Mbit/s
95th percentile per-packet one-way delay: 108.832 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 428.62 Mbit/s
95th percentile per-packet one-way delay: 108.832 ms
Loss rate: 0.68%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-07-04 23:34:55

End at: 2018-07-04 23:35:25

Local clock offset: -0.17 ms

Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-07-05 04:14:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 469.26 Mbit/s

95th percentile per-packet one-way delay: 244.422 ms

Loss rate: 2.46%

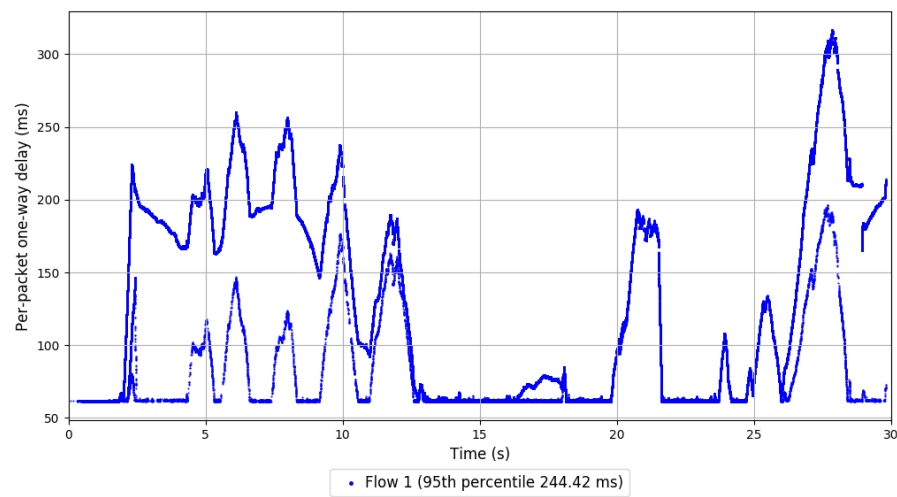
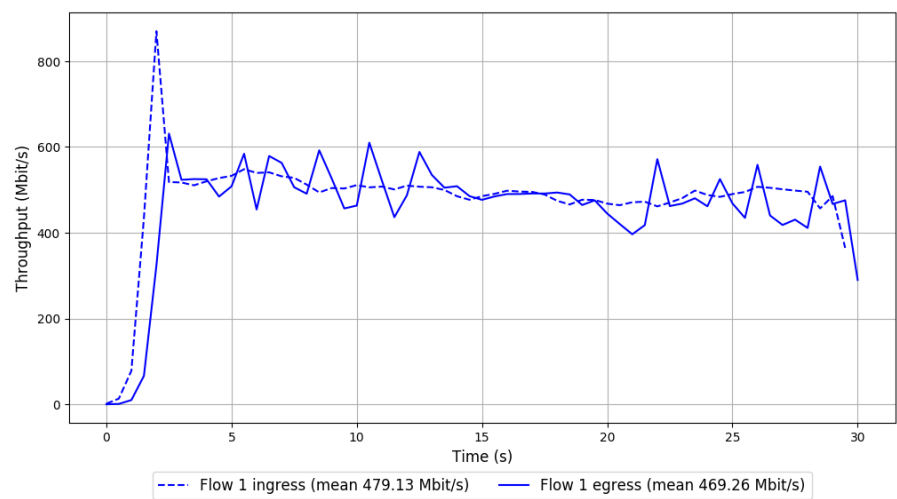
-- Flow 1:

Average throughput: 469.26 Mbit/s

95th percentile per-packet one-way delay: 244.422 ms

Loss rate: 2.46%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-04 23:57:23

End at: 2018-07-04 23:57:53

Local clock offset: -0.233 ms

Remote clock offset: -0.005 ms

Below is generated by plot.py at 2018-07-05 04:14:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 405.82 Mbit/s

95th percentile per-packet one-way delay: 132.698 ms

Loss rate: 0.50%

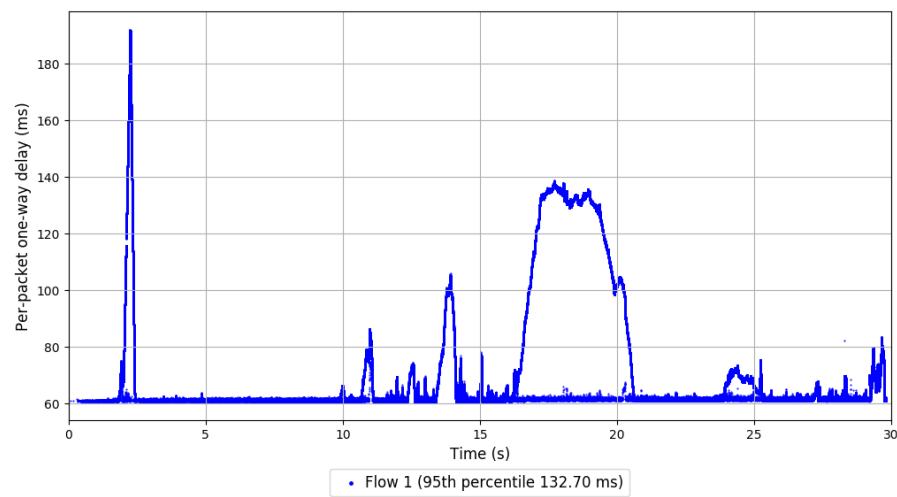
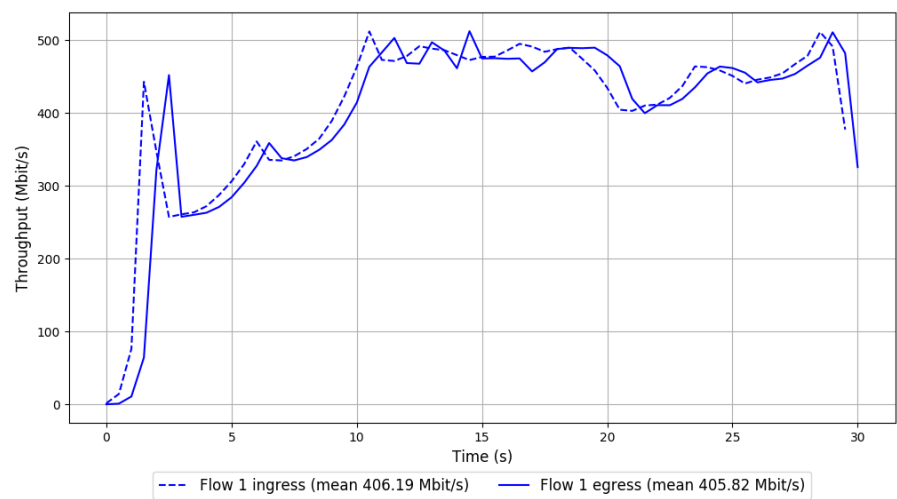
-- Flow 1:

Average throughput: 405.82 Mbit/s

95th percentile per-packet one-way delay: 132.698 ms

Loss rate: 0.50%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-05 00:19:28

End at: 2018-07-05 00:19:58

Local clock offset: -0.266 ms

Remote clock offset: -0.077 ms

Below is generated by plot.py at 2018-07-05 04:14:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 373.94 Mbit/s

95th percentile per-packet one-way delay: 93.887 ms

Loss rate: 0.69%

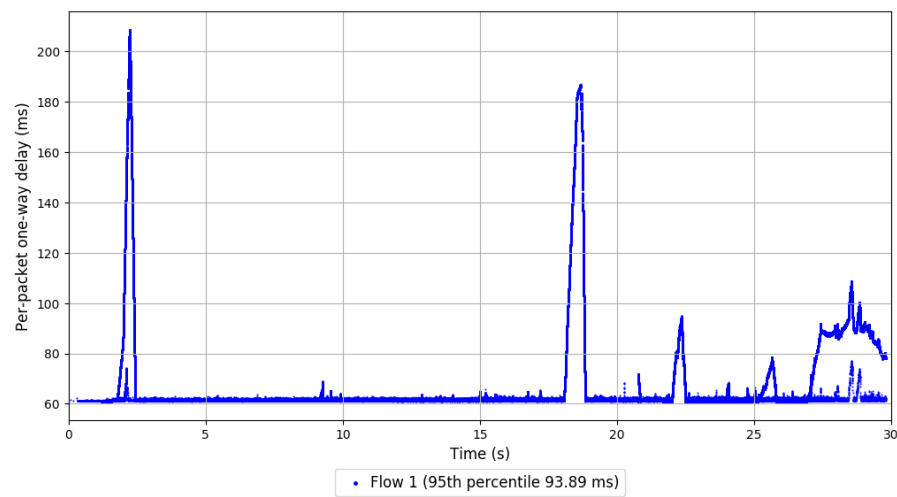
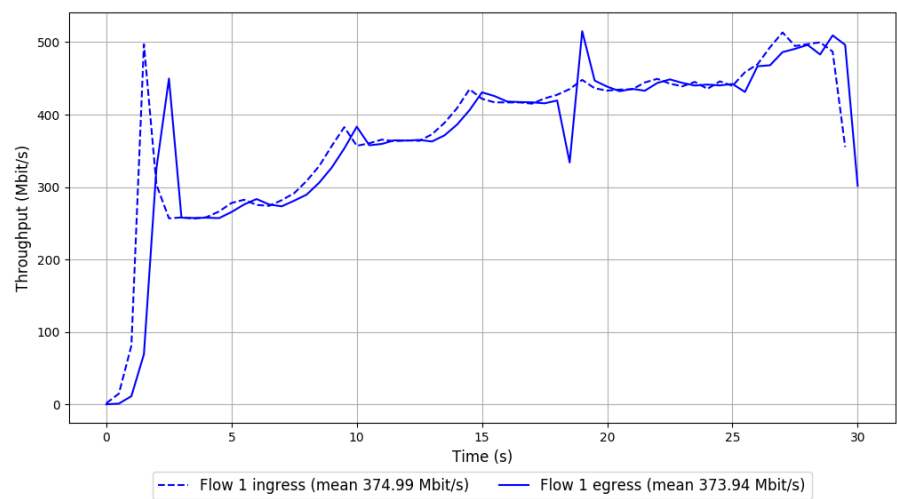
-- Flow 1:

Average throughput: 373.94 Mbit/s

95th percentile per-packet one-way delay: 93.887 ms

Loss rate: 0.69%

Run 4: Report of PCC-Allegro — Data Link

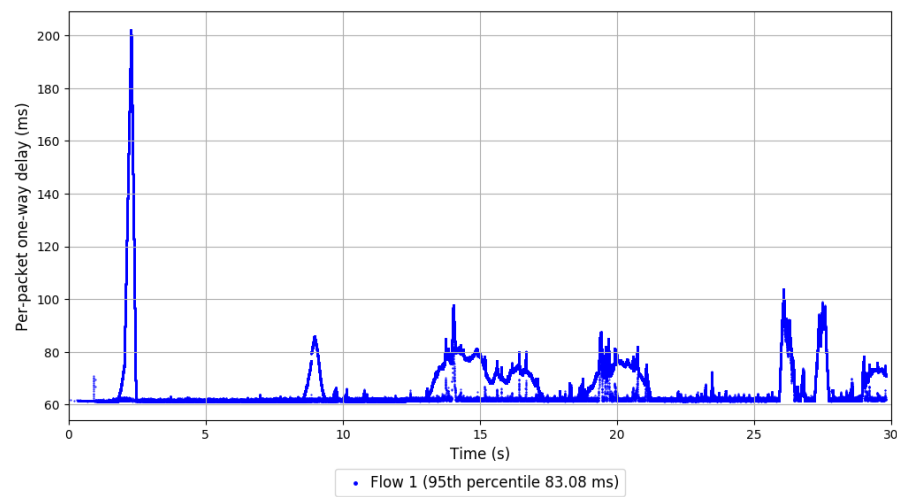
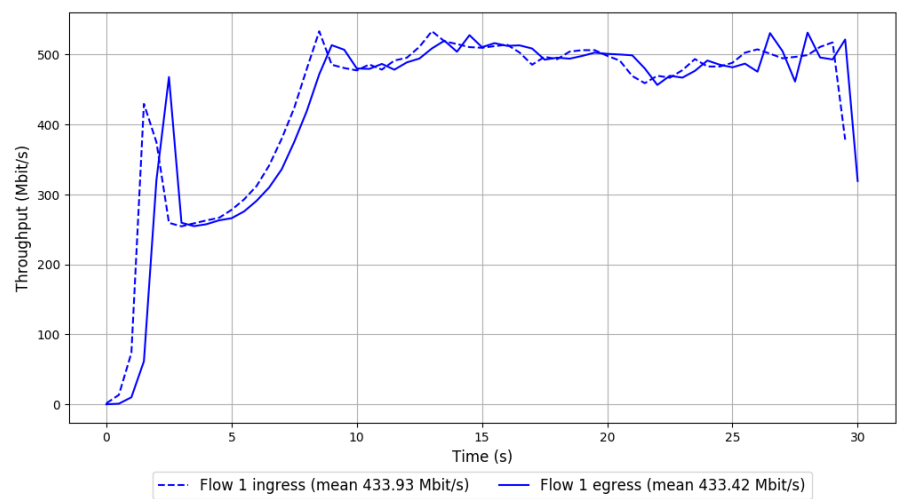


Run 5: Statistics of PCC-Allegro

Start at: 2018-07-05 00:41:47
End at: 2018-07-05 00:42:17
Local clock offset: -0.319 ms
Remote clock offset: -0.349 ms

Below is generated by plot.py at 2018-07-05 04:14:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 433.42 Mbit/s
95th percentile per-packet one-way delay: 83.079 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 433.42 Mbit/s
95th percentile per-packet one-way delay: 83.079 ms
Loss rate: 0.53%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-05 01:04:05

End at: 2018-07-05 01:04:35

Local clock offset: -0.278 ms

Remote clock offset: 1.024 ms

Below is generated by plot.py at 2018-07-05 04:15:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 421.19 Mbit/s

95th percentile per-packet one-way delay: 115.676 ms

Loss rate: 0.46%

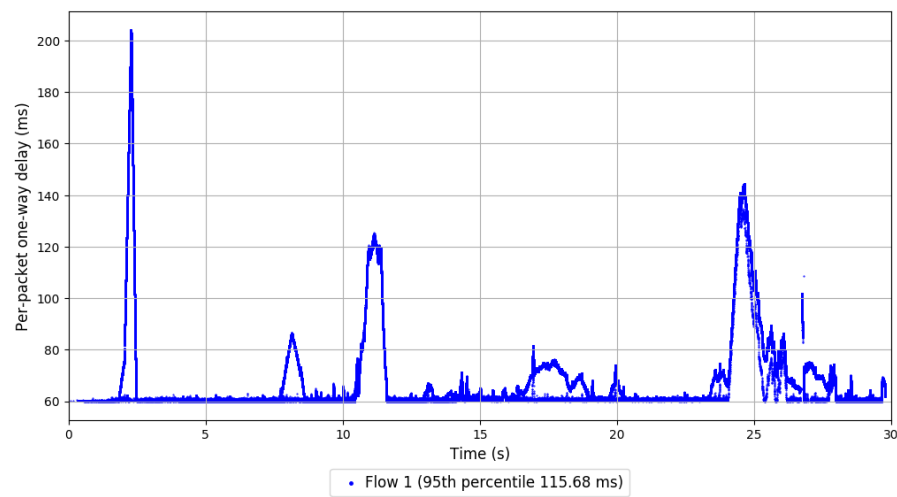
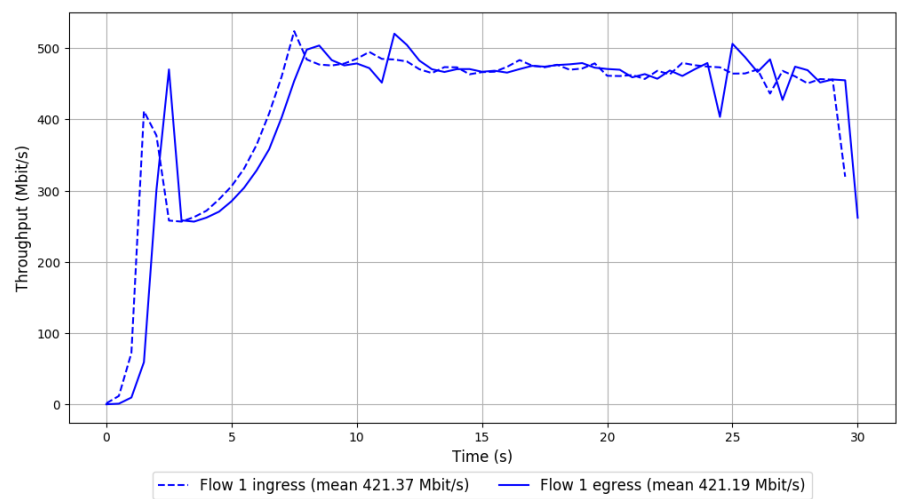
-- Flow 1:

Average throughput: 421.19 Mbit/s

95th percentile per-packet one-way delay: 115.676 ms

Loss rate: 0.46%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-05 01:26:32

End at: 2018-07-05 01:27:02

Local clock offset: -0.388 ms

Remote clock offset: -0.143 ms

Below is generated by plot.py at 2018-07-05 04:15:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 394.03 Mbit/s

95th percentile per-packet one-way delay: 73.804 ms

Loss rate: 0.50%

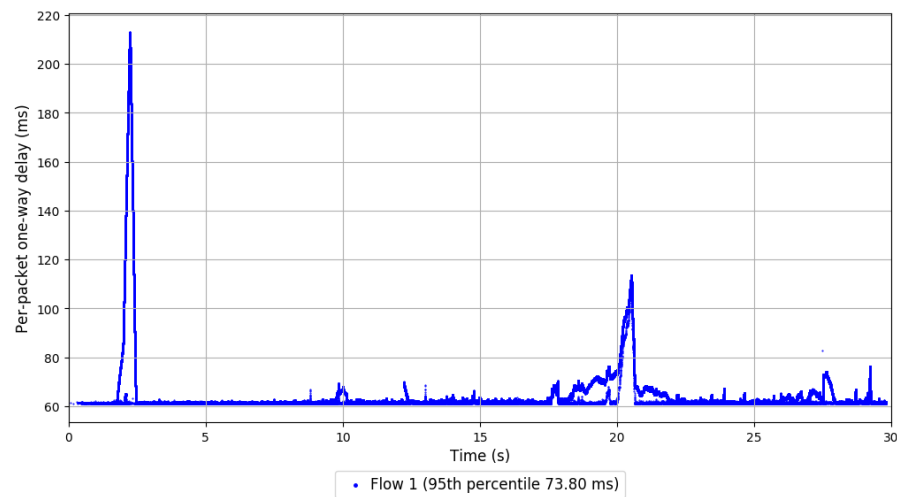
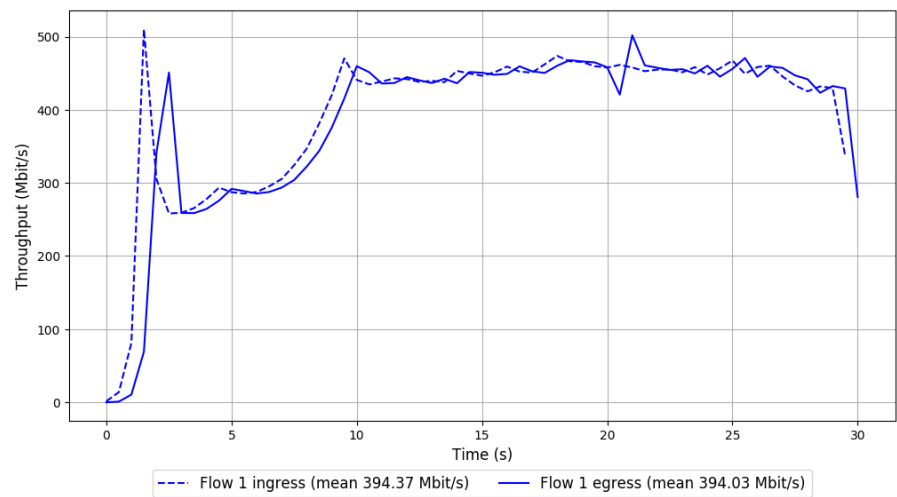
-- Flow 1:

Average throughput: 394.03 Mbit/s

95th percentile per-packet one-way delay: 73.804 ms

Loss rate: 0.50%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-05 01:49:02

End at: 2018-07-05 01:49:32

Local clock offset: -0.36 ms

Remote clock offset: 0.069 ms

Below is generated by plot.py at 2018-07-05 04:21:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 400.00 Mbit/s

95th percentile per-packet one-way delay: 80.021 ms

Loss rate: 0.50%

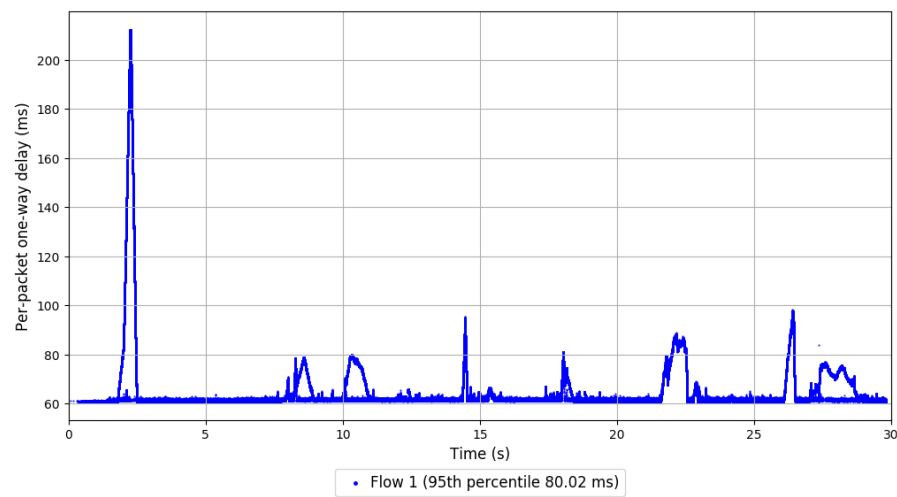
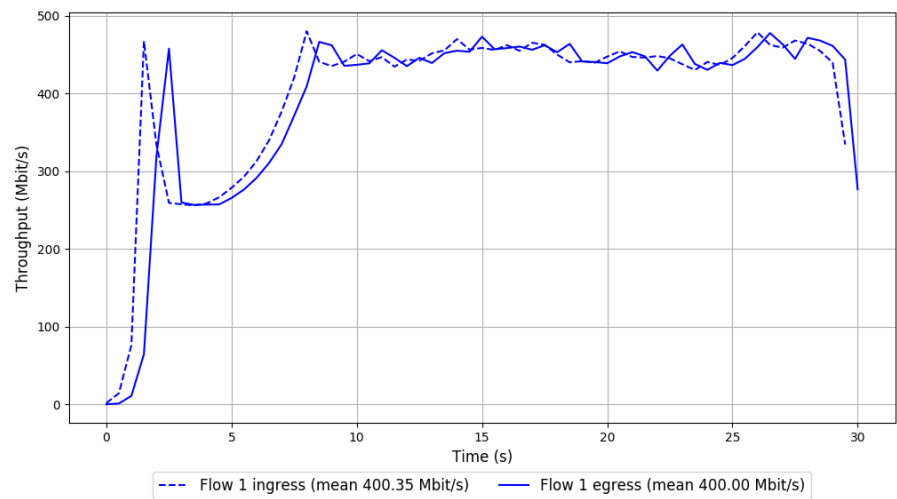
-- Flow 1:

Average throughput: 400.00 Mbit/s

95th percentile per-packet one-way delay: 80.021 ms

Loss rate: 0.50%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-05 02:11:14

End at: 2018-07-05 02:11:44

Local clock offset: -0.407 ms

Remote clock offset: -0.129 ms

Below is generated by plot.py at 2018-07-05 04:23:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 441.90 Mbit/s

95th percentile per-packet one-way delay: 221.624 ms

Loss rate: 2.95%

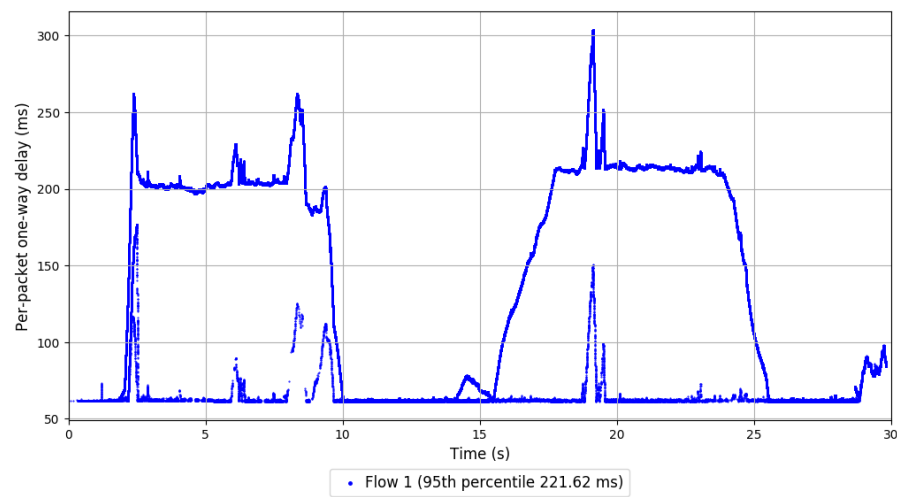
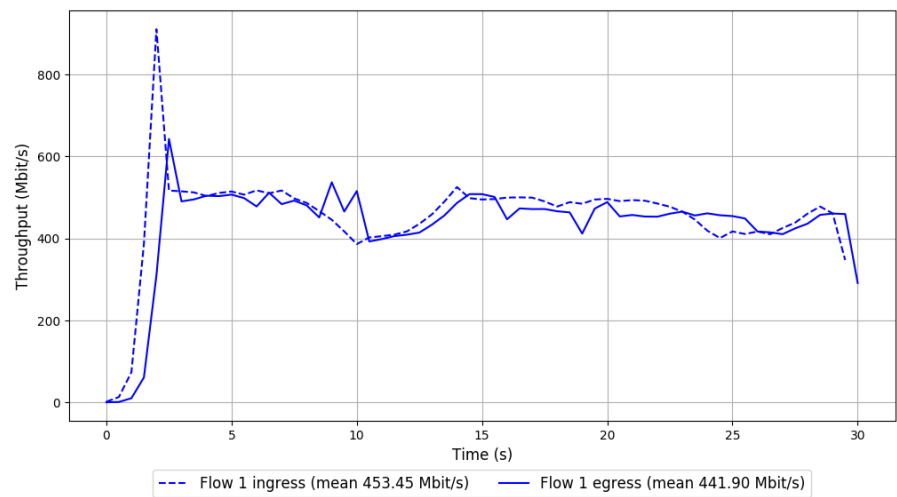
-- Flow 1:

Average throughput: 441.90 Mbit/s

95th percentile per-packet one-way delay: 221.624 ms

Loss rate: 2.95%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-05 02:33:15

End at: 2018-07-05 02:33:45

Local clock offset: -0.423 ms

Remote clock offset: 0.374 ms

Below is generated by plot.py at 2018-07-05 04:23:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 418.34 Mbit/s

95th percentile per-packet one-way delay: 196.687 ms

Loss rate: 0.74%

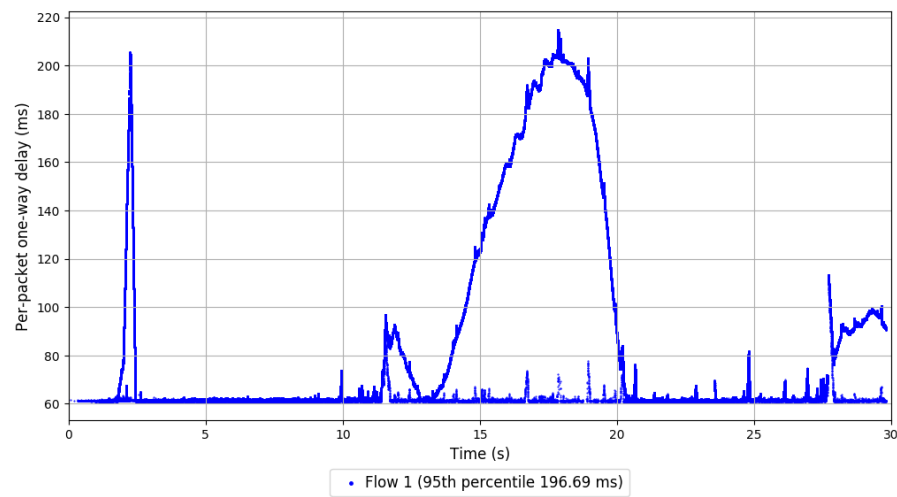
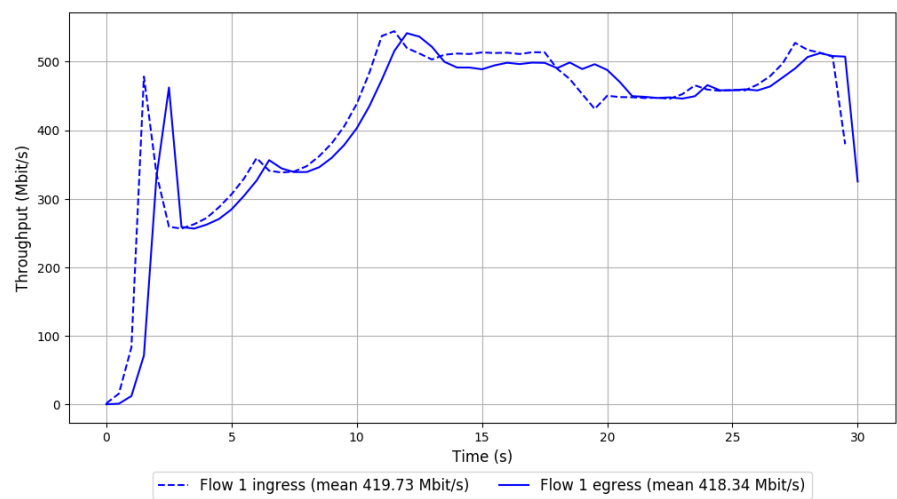
-- Flow 1:

Average throughput: 418.34 Mbit/s

95th percentile per-packet one-way delay: 196.687 ms

Loss rate: 0.74%

Run 10: Report of PCC-Allegro — Data Link

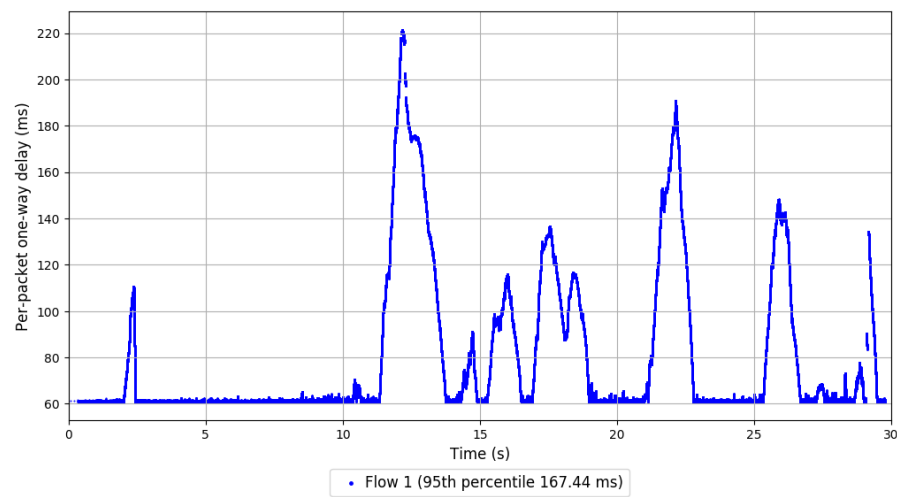
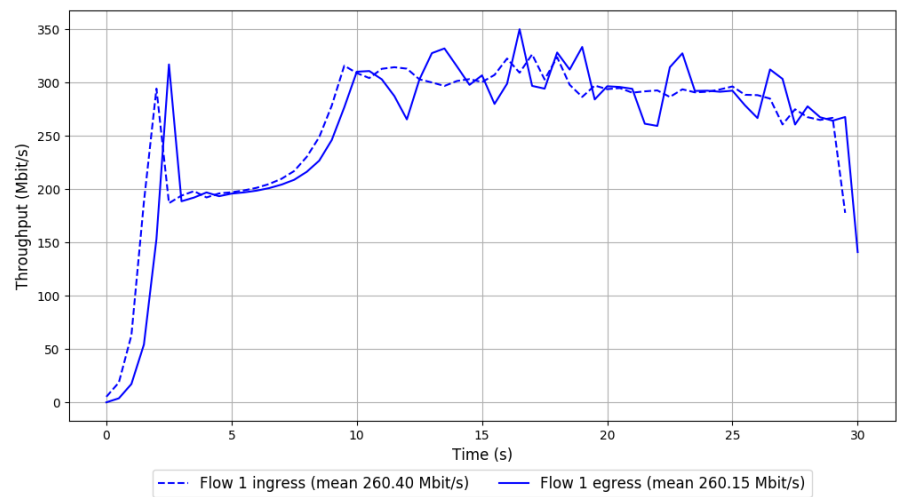


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-04 23:08:33
End at: 2018-07-04 23:09:03
Local clock offset: -0.127 ms
Remote clock offset: 0.057 ms

# Below is generated by plot.py at 2018-07-05 04:24:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 260.15 Mbit/s
95th percentile per-packet one-way delay: 167.443 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 260.15 Mbit/s
95th percentile per-packet one-way delay: 167.443 ms
Loss rate: 0.51%
```


Run 1: Report of PCC-Expr — Data Link

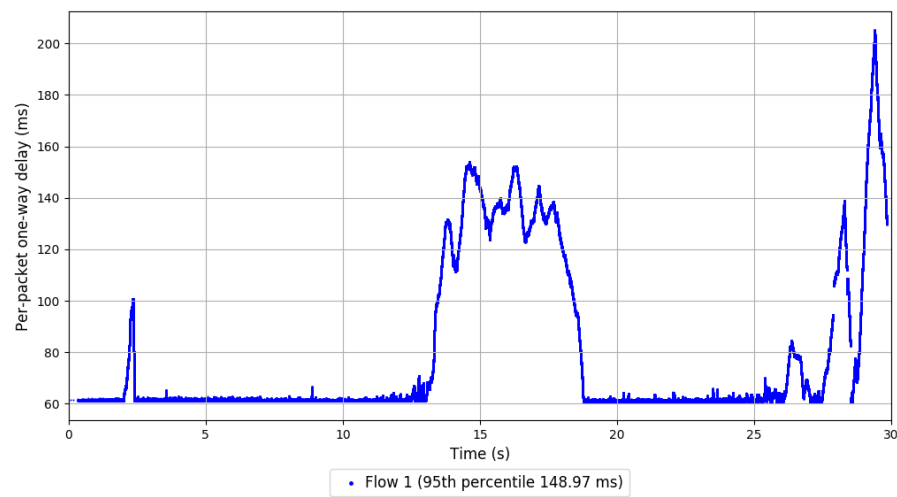
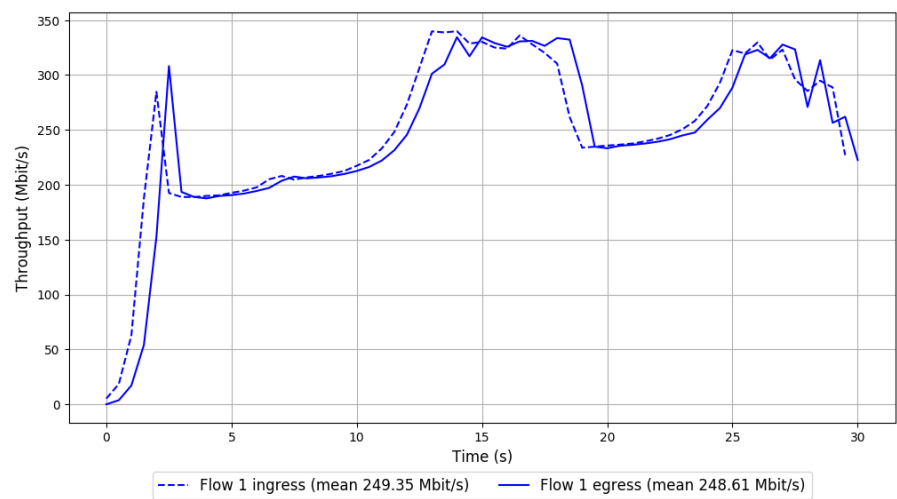


```
Run 2: Statistics of PCC-Expr

Start at: 2018-07-04 23:30:53
End at: 2018-07-04 23:31:23
Local clock offset: -0.212 ms
Remote clock offset: 0.143 ms

# Below is generated by plot.py at 2018-07-05 04:24:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 248.61 Mbit/s
95th percentile per-packet one-way delay: 148.965 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 248.61 Mbit/s
95th percentile per-packet one-way delay: 148.965 ms
Loss rate: 0.71%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-07-04 23:53:20

End at: 2018-07-04 23:53:50

Local clock offset: -0.261 ms

Remote clock offset: 1.3 ms

Below is generated by plot.py at 2018-07-05 04:24:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 245.53 Mbit/s

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

Loss rate: 1.02%

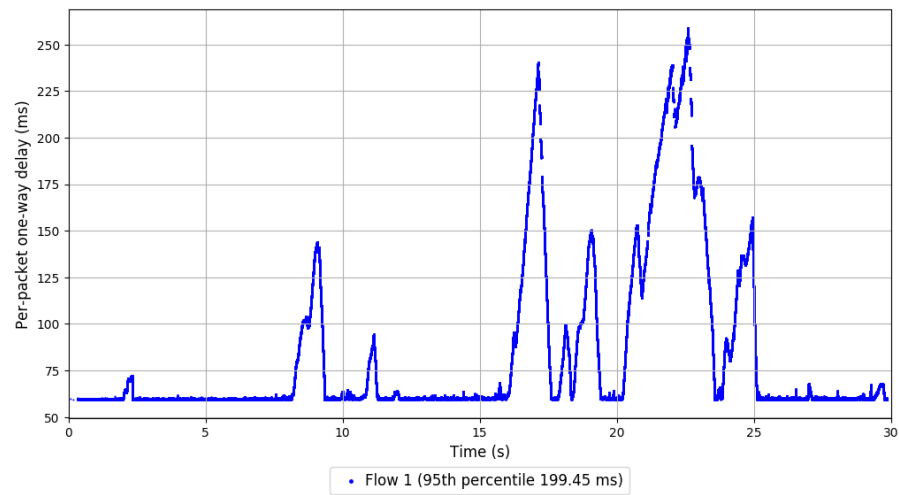
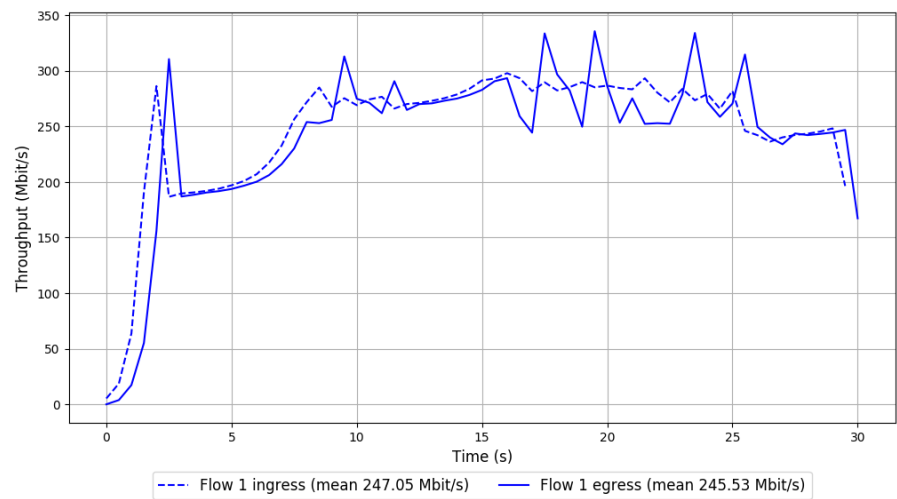
-- Flow 1:

Average throughput: 245.53 Mbit/s

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

Loss rate: 1.02%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-05 00:15:32

End at: 2018-07-05 00:16:02

Local clock offset: -0.234 ms

Remote clock offset: 1.264 ms

Below is generated by plot.py at 2018-07-05 04:24:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.67 Mbit/s

95th percentile per-packet one-way delay: 198.519 ms

Loss rate: 1.88%

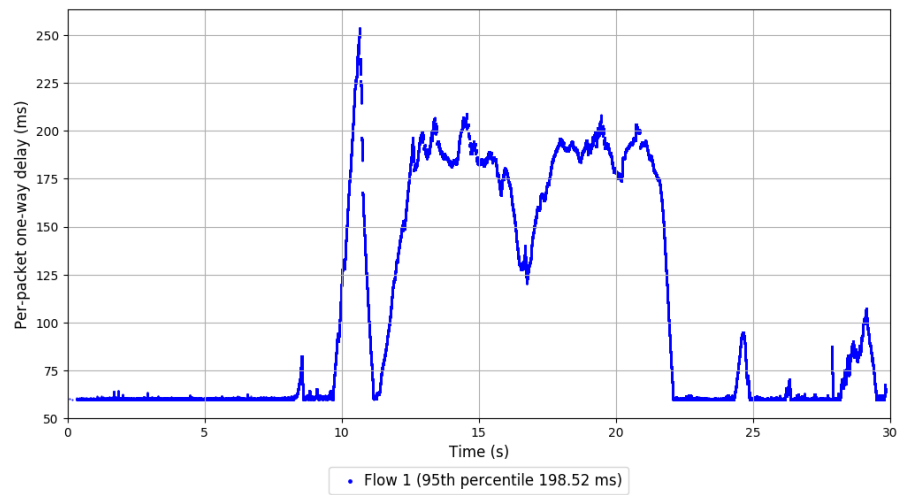
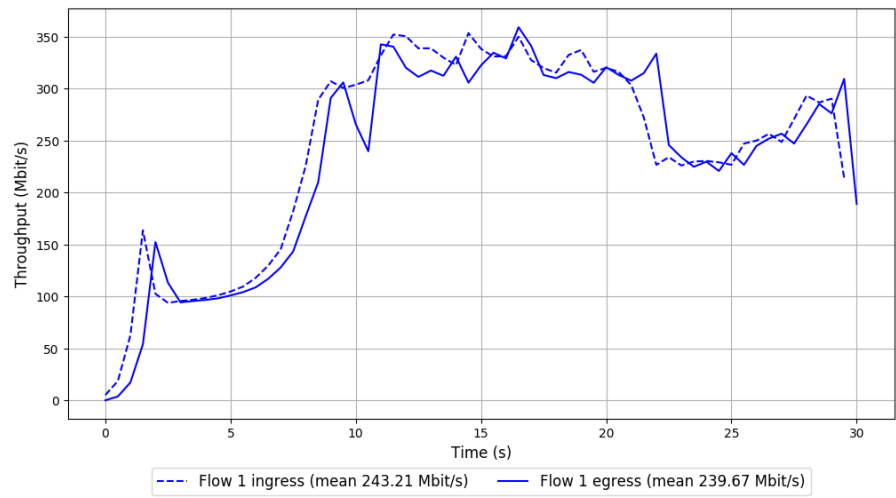
-- Flow 1:

Average throughput: 239.67 Mbit/s

95th percentile per-packet one-way delay: 198.519 ms

Loss rate: 1.88%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-07-05 00:37:45

End at: 2018-07-05 00:38:15

Local clock offset: -0.332 ms

Remote clock offset: 0.08 ms

Below is generated by plot.py at 2018-07-05 04:25:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 246.63 Mbit/s

95th percentile per-packet one-way delay: 165.615 ms

Loss rate: 0.87%

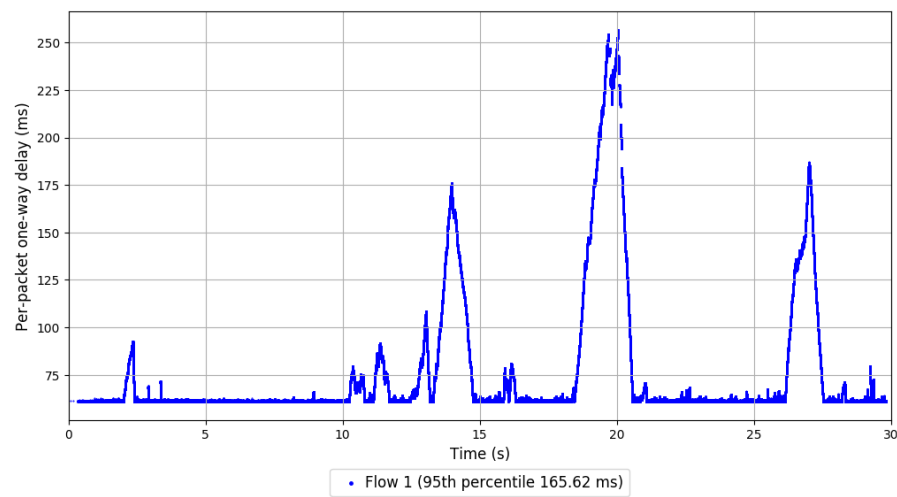
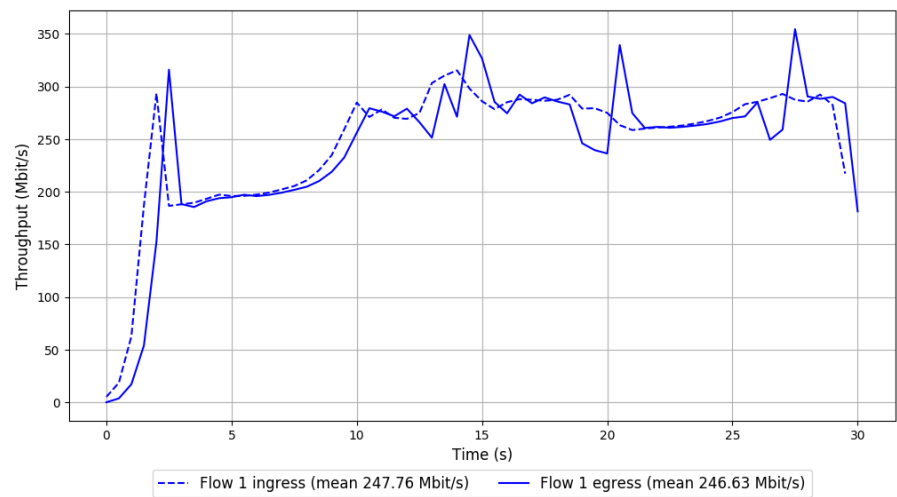
-- Flow 1:

Average throughput: 246.63 Mbit/s

95th percentile per-packet one-way delay: 165.615 ms

Loss rate: 0.87%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

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

End at: 2018-07-05 01:00:31

Local clock offset: -0.262 ms

Remote clock offset: 0.149 ms

Below is generated by plot.py at 2018-07-05 04:32:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 251.45 Mbit/s

95th percentile per-packet one-way delay: 195.601 ms

Loss rate: 4.85%

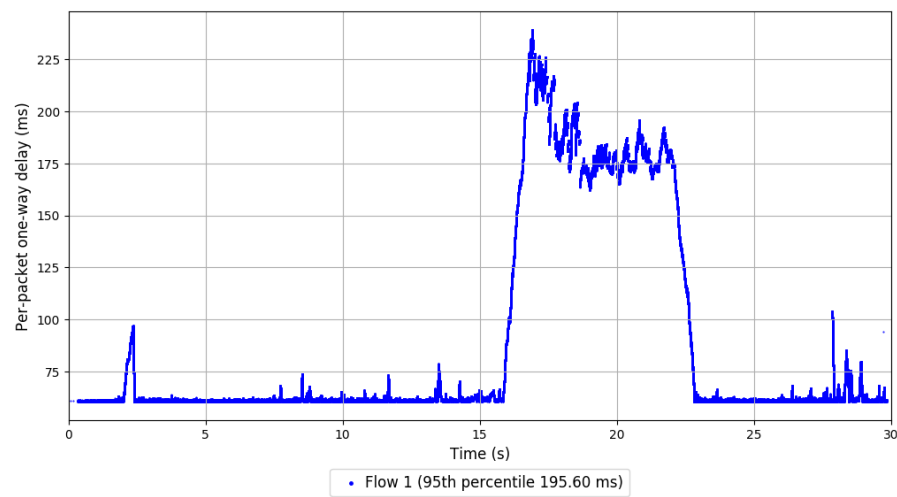
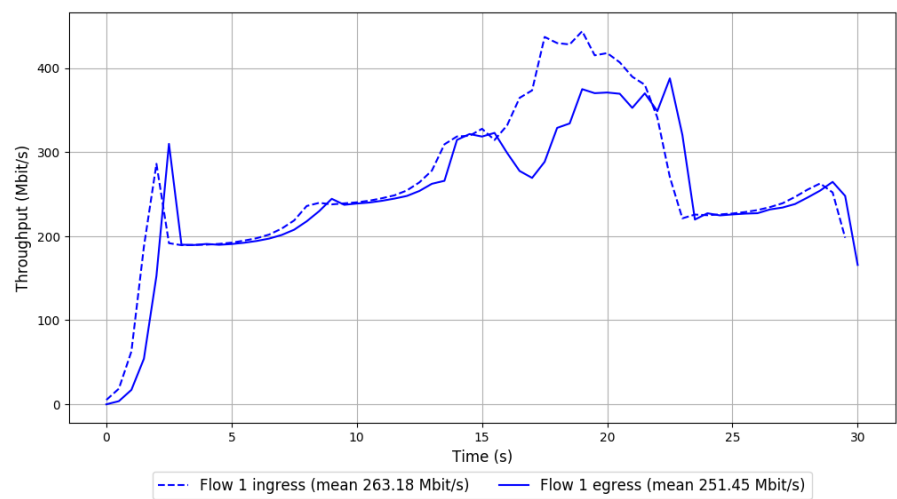
-- Flow 1:

Average throughput: 251.45 Mbit/s

95th percentile per-packet one-way delay: 195.601 ms

Loss rate: 4.85%

Run 6: Report of PCC-Expr — Data Link

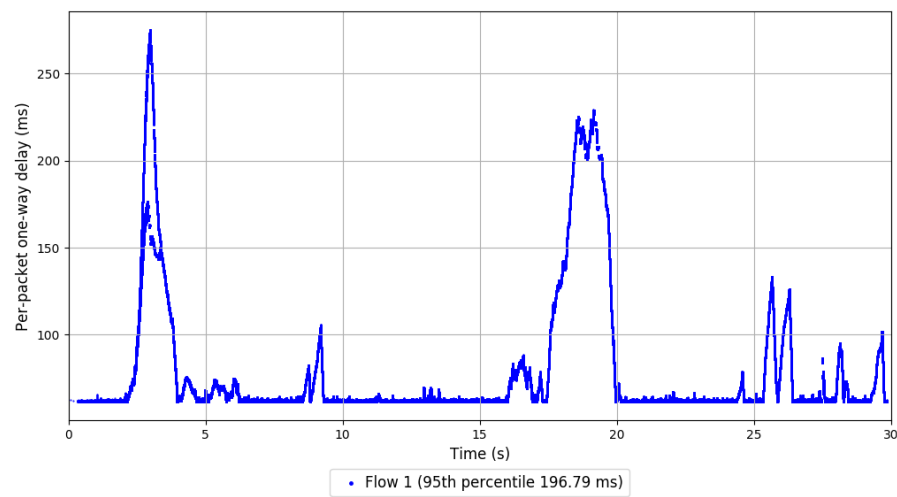
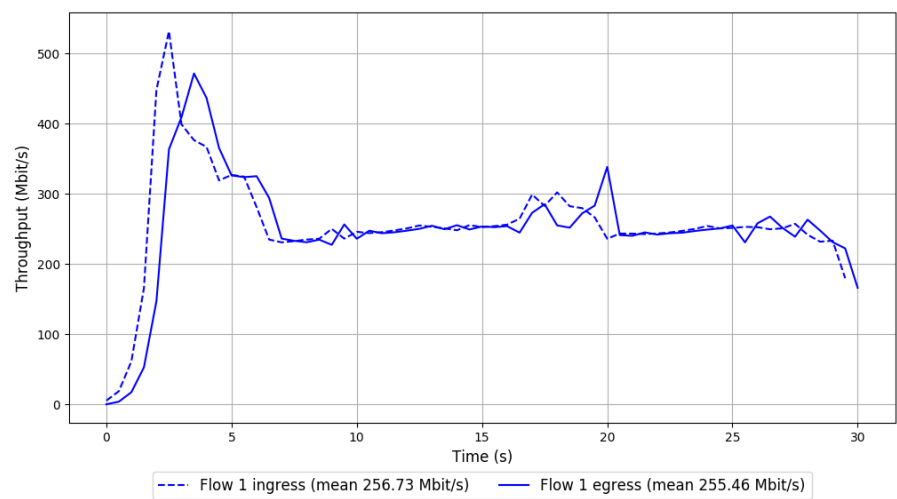


Run 7: Statistics of PCC-Expr

Start at: 2018-07-05 01:22:32
End at: 2018-07-05 01:23:02
Local clock offset: -0.334 ms
Remote clock offset: -0.313 ms

Below is generated by plot.py at 2018-07-05 04:32:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 255.46 Mbit/s
95th percentile per-packet one-way delay: 196.794 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 255.46 Mbit/s
95th percentile per-packet one-way delay: 196.794 ms
Loss rate: 0.91%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-05 01:44:55

End at: 2018-07-05 01:45:25

Local clock offset: -0.351 ms

Remote clock offset: 1.172 ms

Below is generated by plot.py at 2018-07-05 04:34:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 281.29 Mbit/s

95th percentile per-packet one-way delay: 189.118 ms

Loss rate: 2.98%

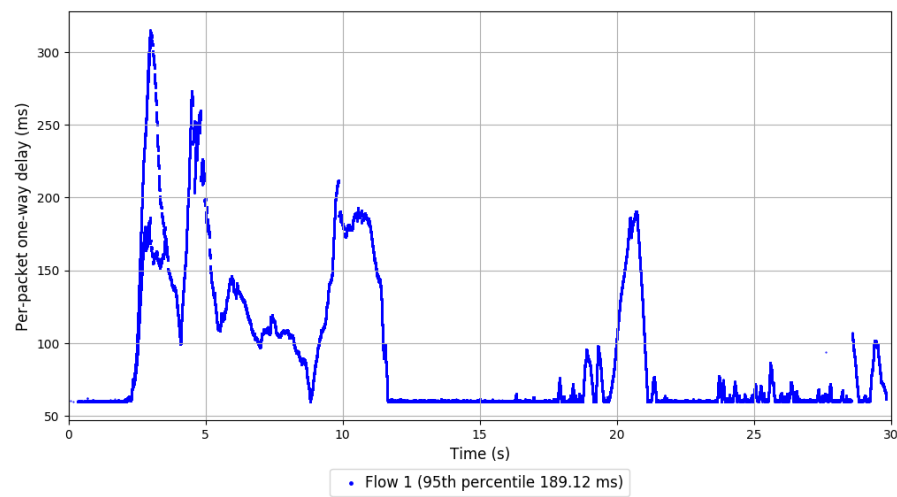
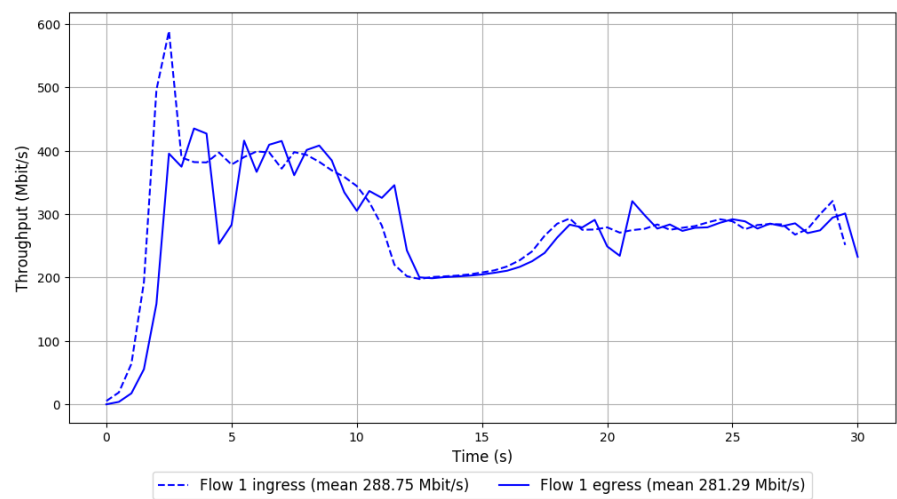
-- Flow 1:

Average throughput: 281.29 Mbit/s

95th percentile per-packet one-way delay: 189.118 ms

Loss rate: 2.98%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-05 02:07:14

End at: 2018-07-05 02:07:44

Local clock offset: -0.384 ms

Remote clock offset: 0.319 ms

Below is generated by plot.py at 2018-07-05 04:34:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 240.37 Mbit/s

95th percentile per-packet one-way delay: 71.959 ms

Loss rate: 0.48%

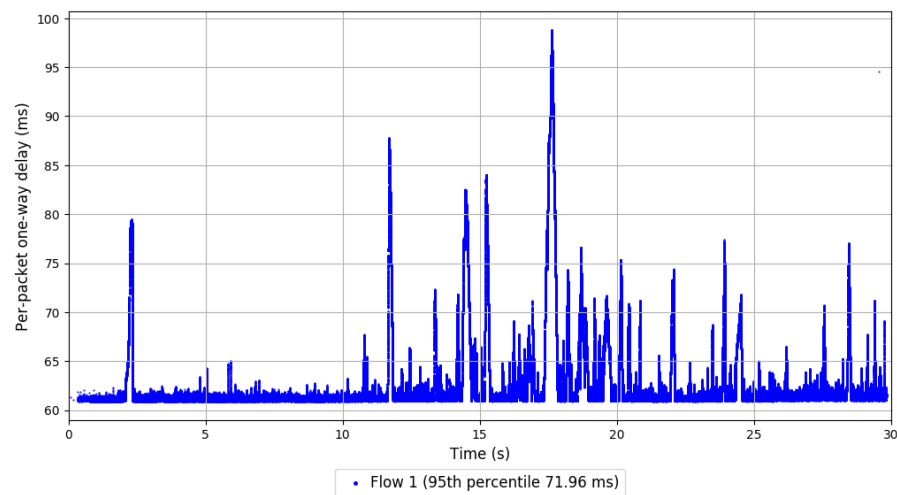
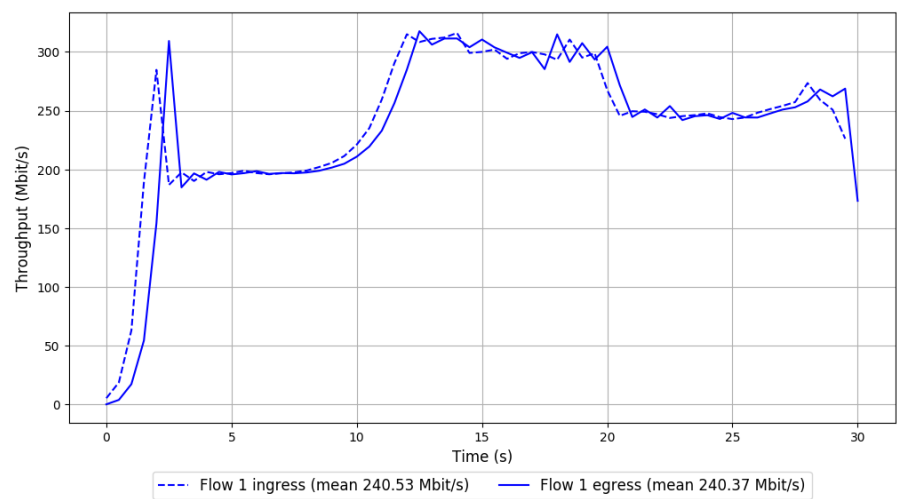
-- Flow 1:

Average throughput: 240.37 Mbit/s

95th percentile per-packet one-way delay: 71.959 ms

Loss rate: 0.48%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-05 02:29:11

End at: 2018-07-05 02:29:41

Local clock offset: -0.379 ms

Remote clock offset: 0.353 ms

Below is generated by plot.py at 2018-07-05 04:34:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.35 Mbit/s

95th percentile per-packet one-way delay: 155.156 ms

Loss rate: 1.14%

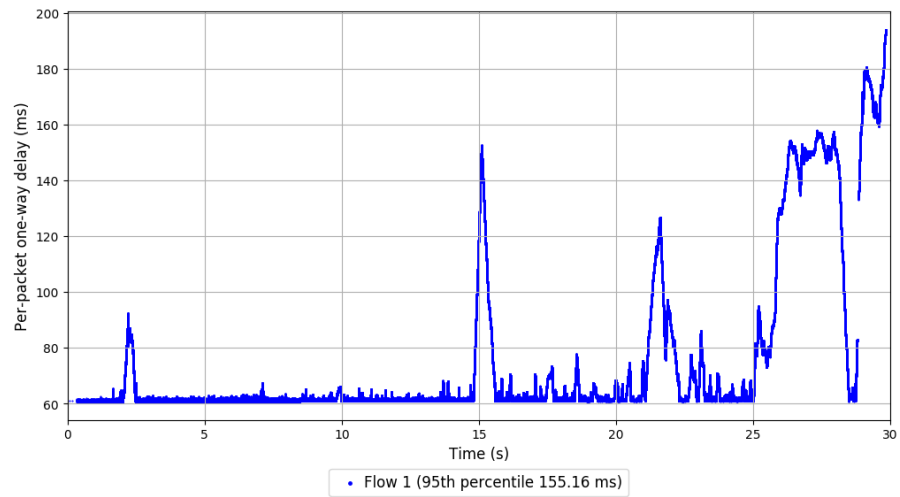
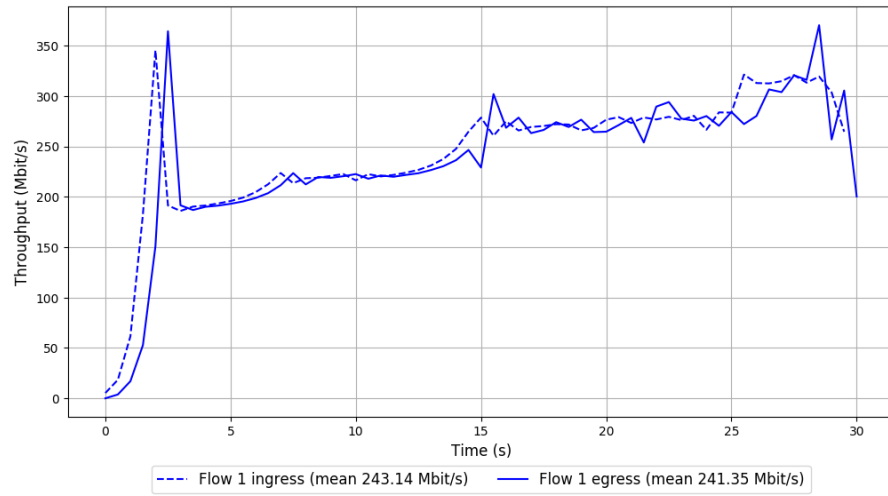
-- Flow 1:

Average throughput: 241.35 Mbit/s

95th percentile per-packet one-way delay: 155.156 ms

Loss rate: 1.14%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

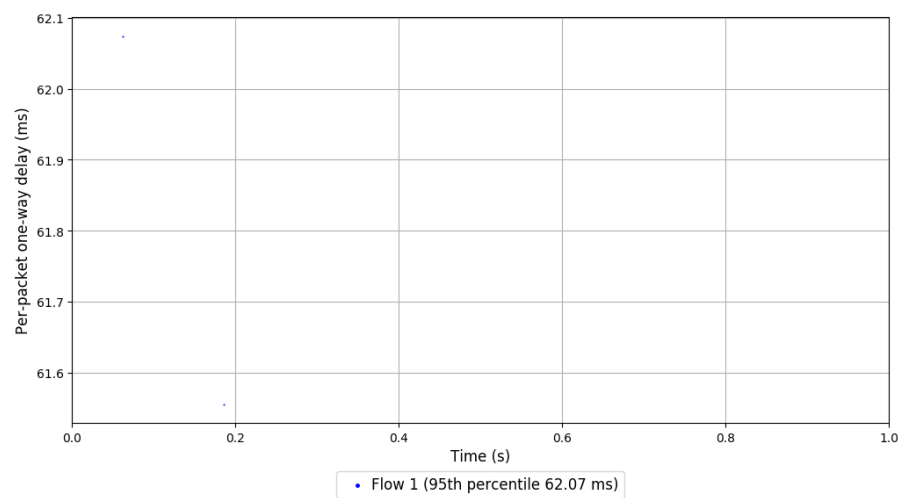
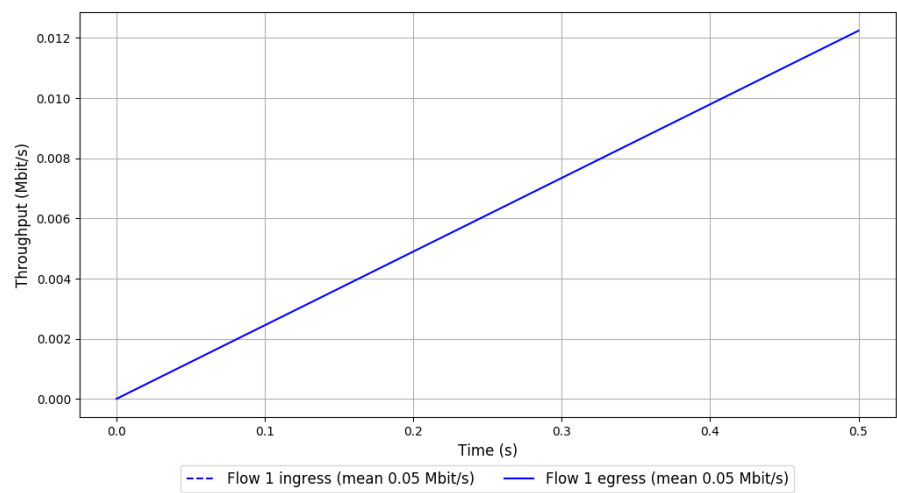
Start at: 2018-07-04 23:16:27

End at: 2018-07-04 23:16:57

Local clock offset: -0.179 ms

Remote clock offset: 0.004 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-04 23:38:46

End at: 2018-07-04 23:39:16

Local clock offset: -0.158 ms

Remote clock offset: 1.24 ms

Below is generated by plot.py at 2018-07-05 04:34:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.87 Mbit/s

95th percentile per-packet one-way delay: 59.957 ms

Loss rate: 0.68%

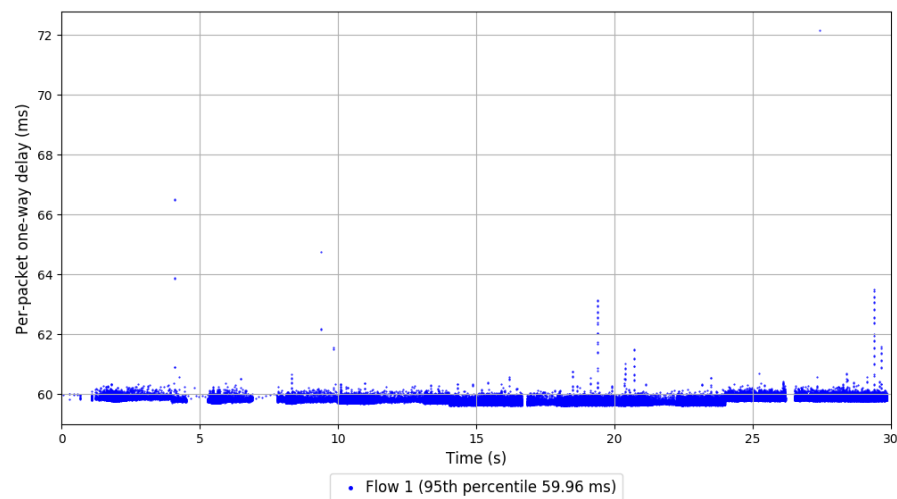
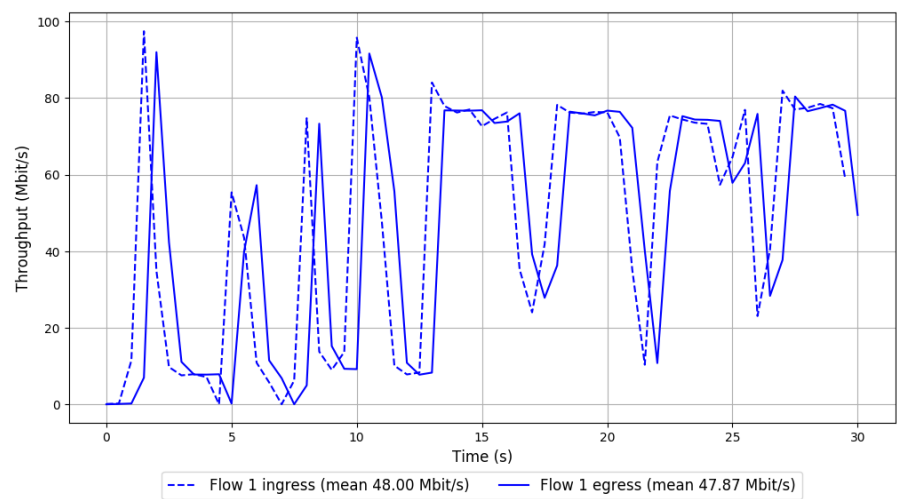
-- Flow 1:

Average throughput: 47.87 Mbit/s

95th percentile per-packet one-way delay: 59.957 ms

Loss rate: 0.68%

Run 2: Report of QUIC Cubic — Data Link

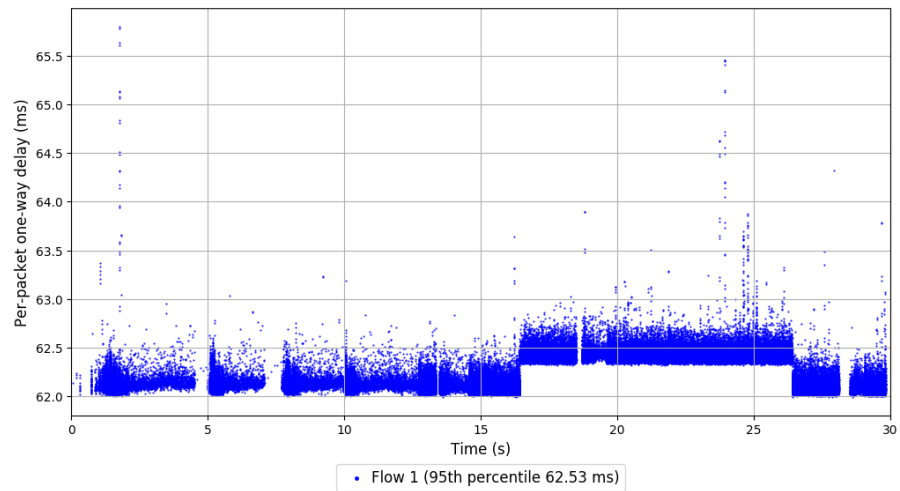
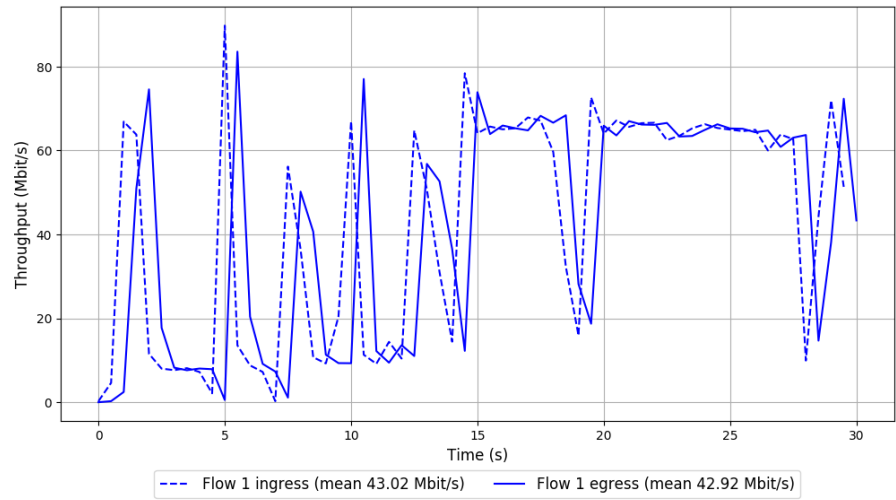


Run 3: Statistics of QUIC Cubic

Start at: 2018-07-05 00:01:13
End at: 2018-07-05 00:01:43
Local clock offset: -0.184 ms
Remote clock offset: -1.301 ms

Below is generated by plot.py at 2018-07-05 04:34:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 42.92 Mbit/s
95th percentile per-packet one-way delay: 62.528 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 42.92 Mbit/s
95th percentile per-packet one-way delay: 62.528 ms
Loss rate: 0.64%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-05 00:23:16

End at: 2018-07-05 00:23:46

Local clock offset: -0.231 ms

Remote clock offset: 1.214 ms

Below is generated by plot.py at 2018-07-05 04:34:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.11 Mbit/s

95th percentile per-packet one-way delay: 60.024 ms

Loss rate: 0.62%

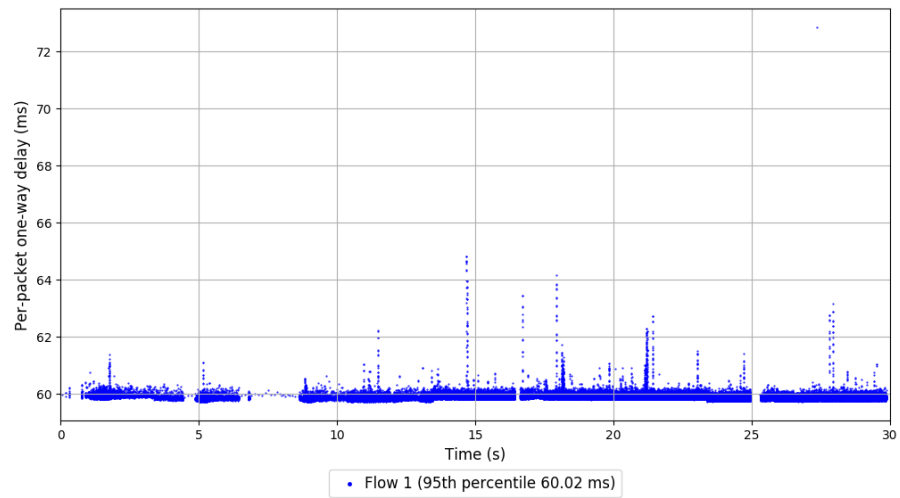
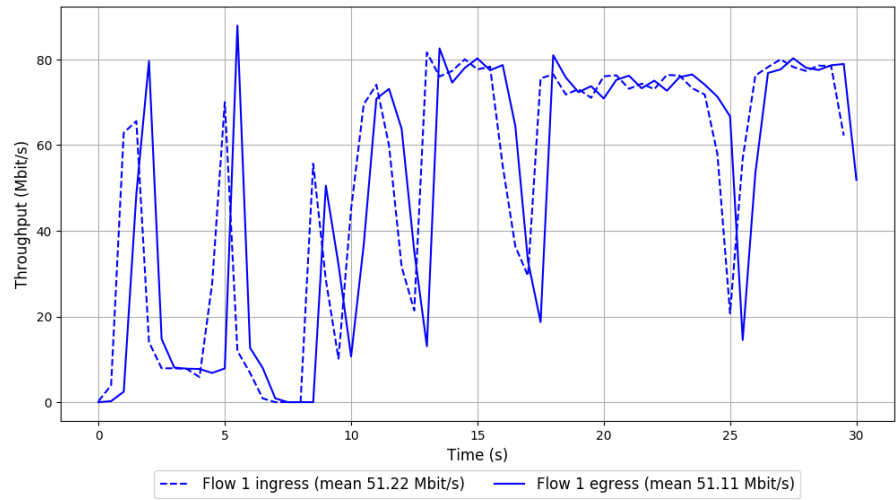
-- Flow 1:

Average throughput: 51.11 Mbit/s

95th percentile per-packet one-way delay: 60.024 ms

Loss rate: 0.62%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-07-05 00:45:37

End at: 2018-07-05 00:46:07

Local clock offset: -0.281 ms

Remote clock offset: 0.069 ms

Below is generated by plot.py at 2018-07-05 04:34:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.12 Mbit/s

95th percentile per-packet one-way delay: 61.256 ms

Loss rate: 0.63%

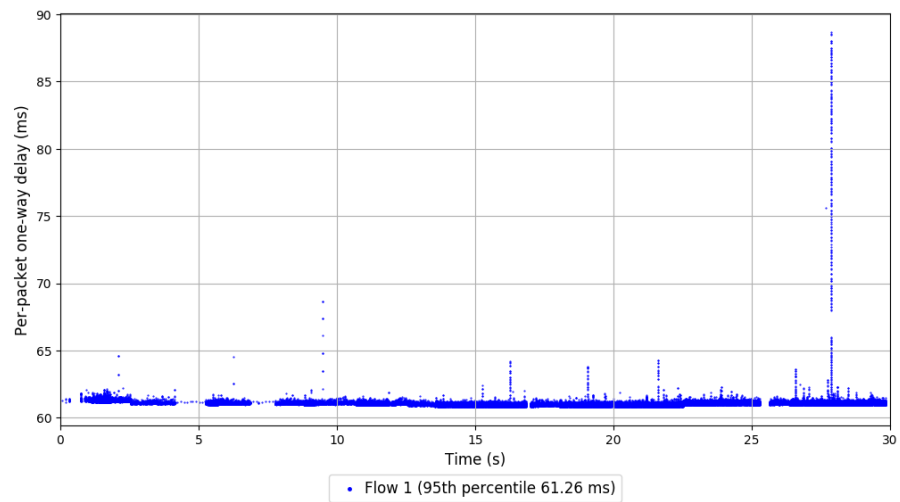
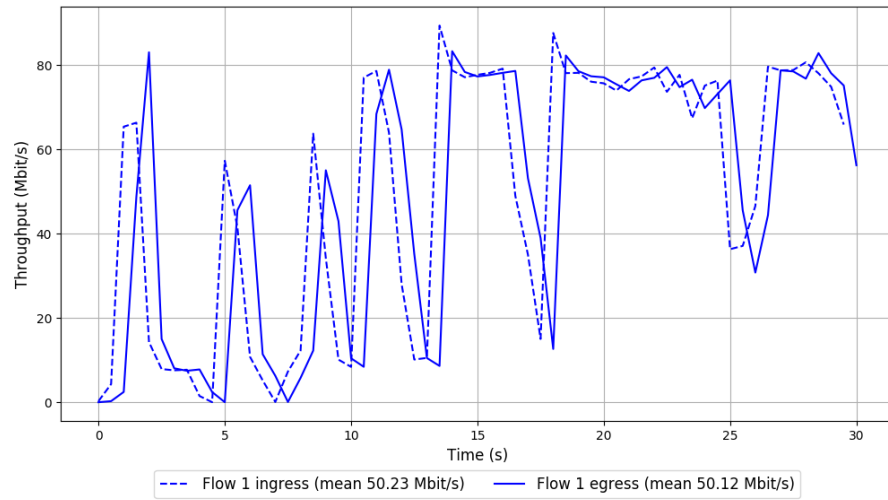
-- Flow 1:

Average throughput: 50.12 Mbit/s

95th percentile per-packet one-way delay: 61.256 ms

Loss rate: 0.63%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-05 01:07:56

End at: 2018-07-05 01:08:26

Local clock offset: -0.289 ms

Remote clock offset: 0.983 ms

Below is generated by plot.py at 2018-07-05 04:34:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.63 Mbit/s

95th percentile per-packet one-way delay: 60.431 ms

Loss rate: 0.66%

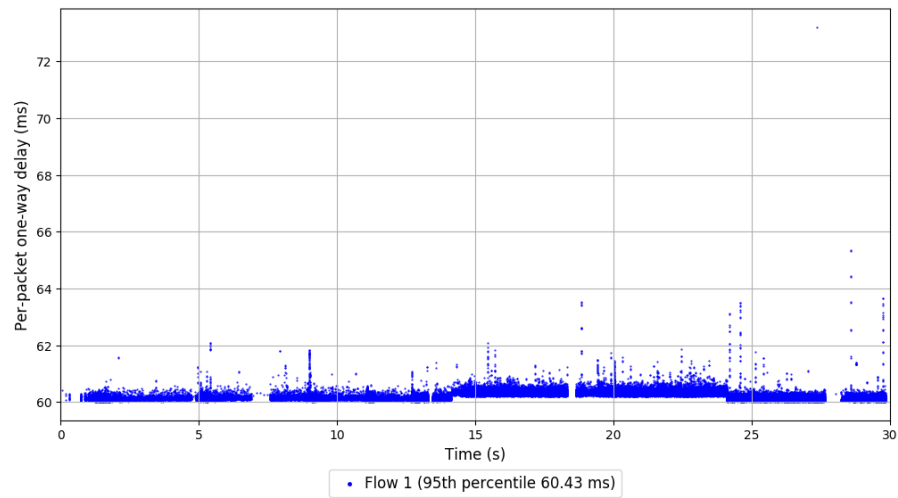
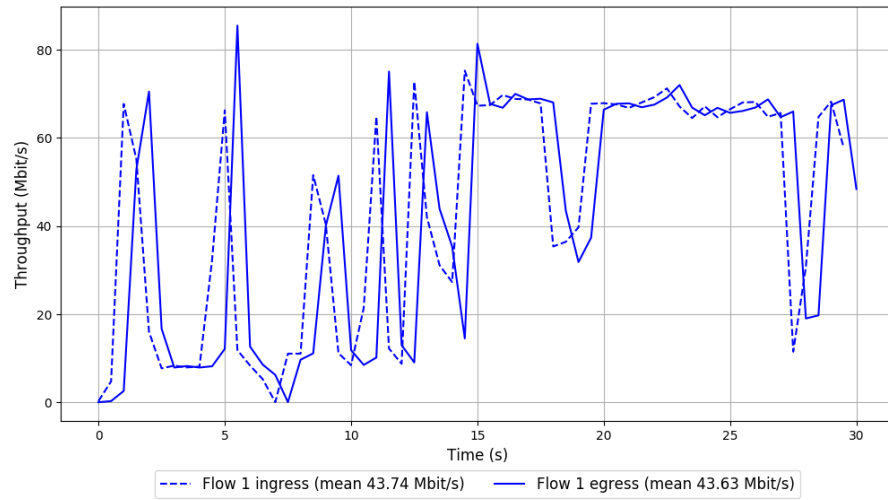
-- Flow 1:

Average throughput: 43.63 Mbit/s

95th percentile per-packet one-way delay: 60.431 ms

Loss rate: 0.66%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-05 01:30:21

End at: 2018-07-05 01:30:51

Local clock offset: -0.333 ms

Remote clock offset: 0.043 ms

Below is generated by plot.py at 2018-07-05 04:34:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.21 Mbit/s

95th percentile per-packet one-way delay: 61.221 ms

Loss rate: 0.67%

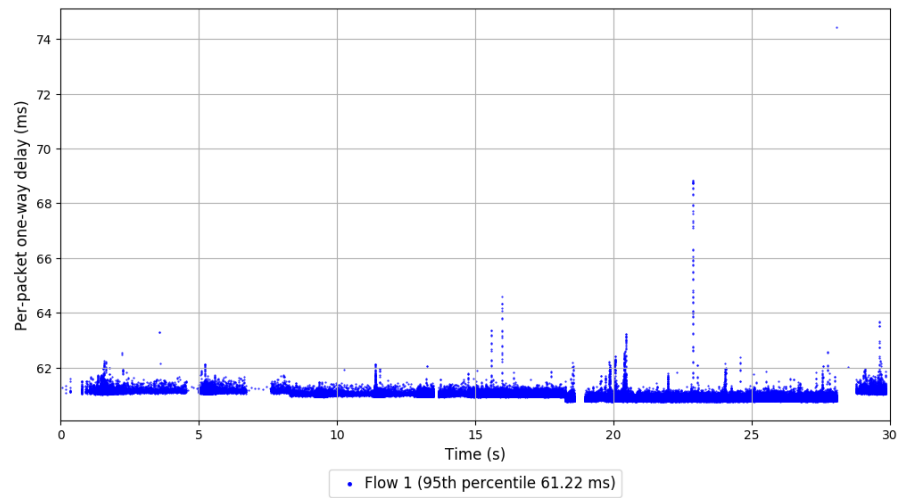
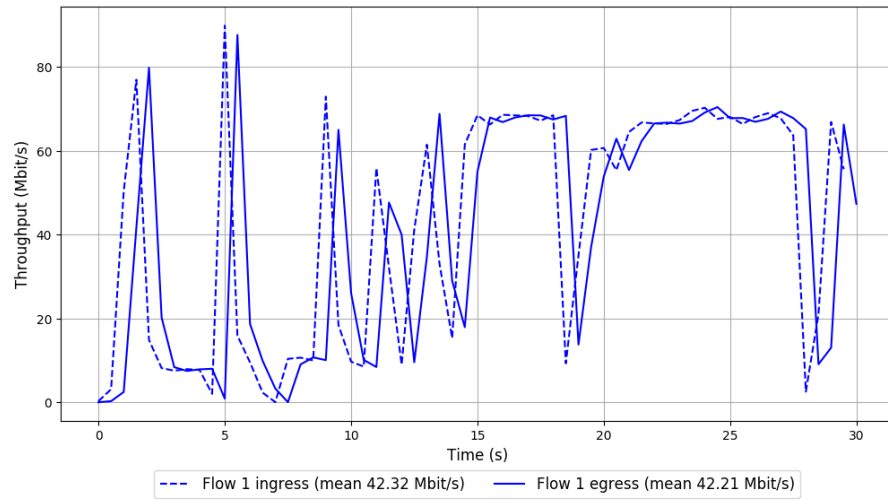
-- Flow 1:

Average throughput: 42.21 Mbit/s

95th percentile per-packet one-way delay: 61.221 ms

Loss rate: 0.67%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-05 01:52:52

End at: 2018-07-05 01:53:22

Local clock offset: -0.406 ms

Remote clock offset: 0.089 ms

Below is generated by plot.py at 2018-07-05 04:34:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.12 Mbit/s

95th percentile per-packet one-way delay: 61.640 ms

Loss rate: 0.63%

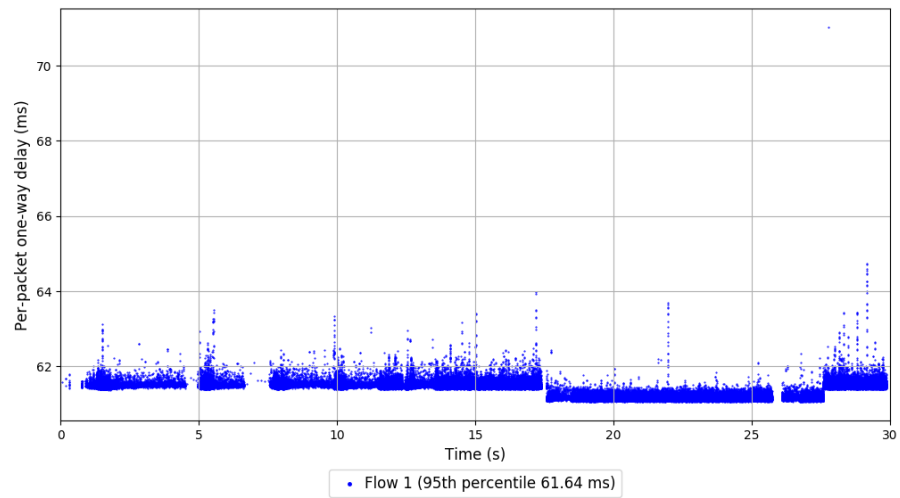
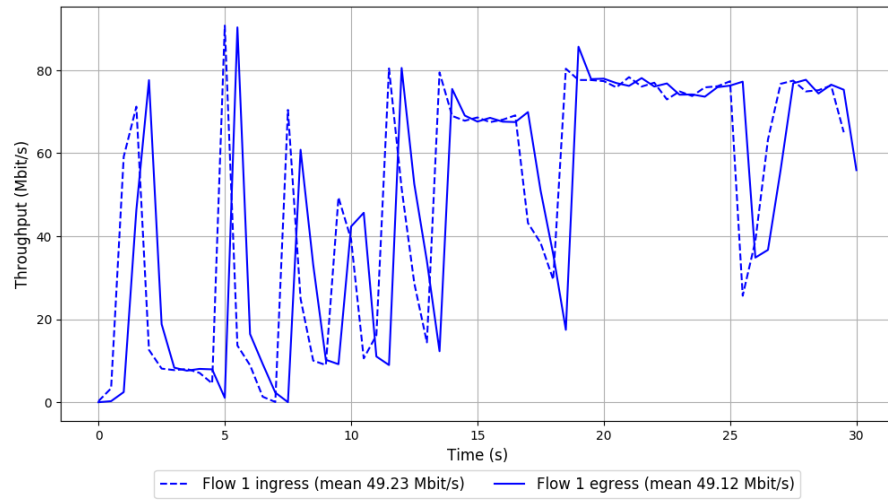
-- Flow 1:

Average throughput: 49.12 Mbit/s

95th percentile per-packet one-way delay: 61.640 ms

Loss rate: 0.63%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-05 02:15:06

End at: 2018-07-05 02:15:36

Local clock offset: -0.415 ms

Remote clock offset: 0.487 ms

Below is generated by plot.py at 2018-07-05 04:34:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.19 Mbit/s

95th percentile per-packet one-way delay: 61.367 ms

Loss rate: 0.68%

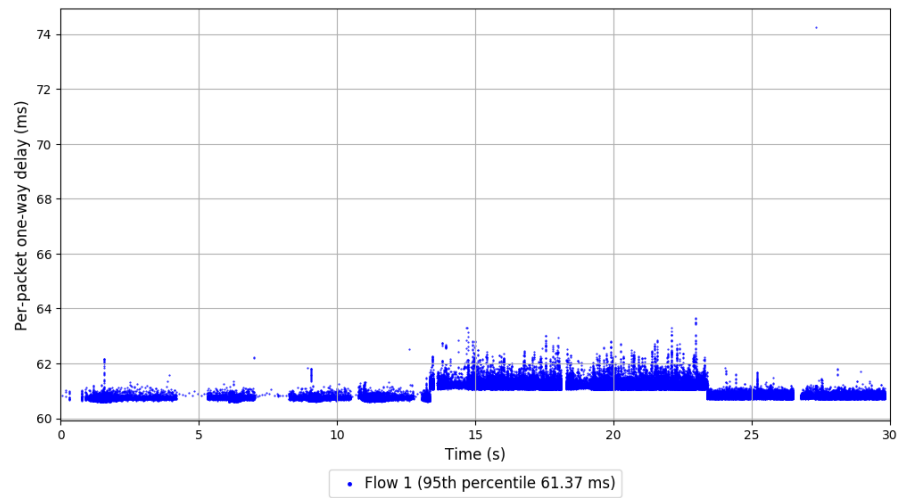
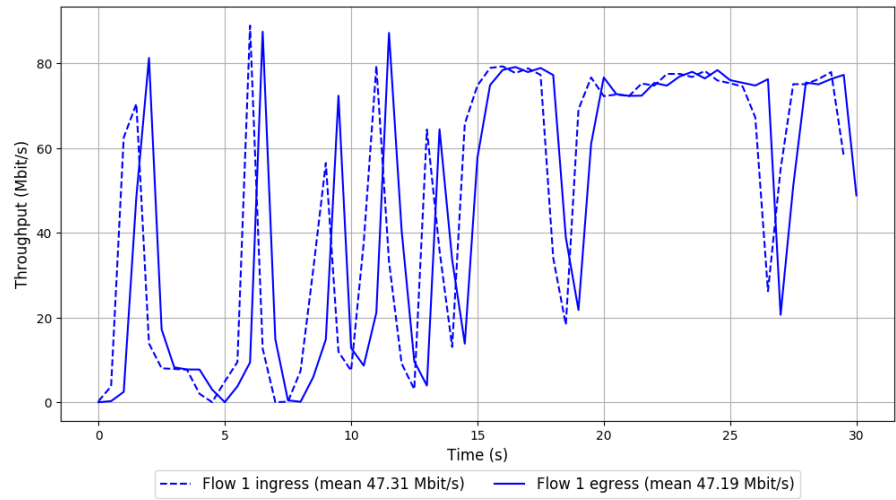
-- Flow 1:

Average throughput: 47.19 Mbit/s

95th percentile per-packet one-way delay: 61.367 ms

Loss rate: 0.68%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-05 02:37:05

End at: 2018-07-05 02:37:35

Local clock offset: -0.399 ms

Remote clock offset: 0.123 ms

Below is generated by plot.py at 2018-07-05 04:34:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.58 Mbit/s

95th percentile per-packet one-way delay: 61.559 ms

Loss rate: 0.68%

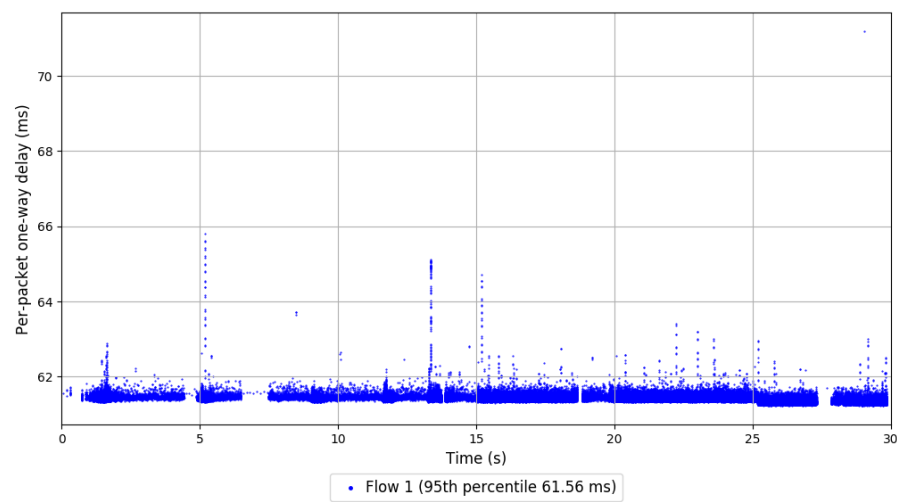
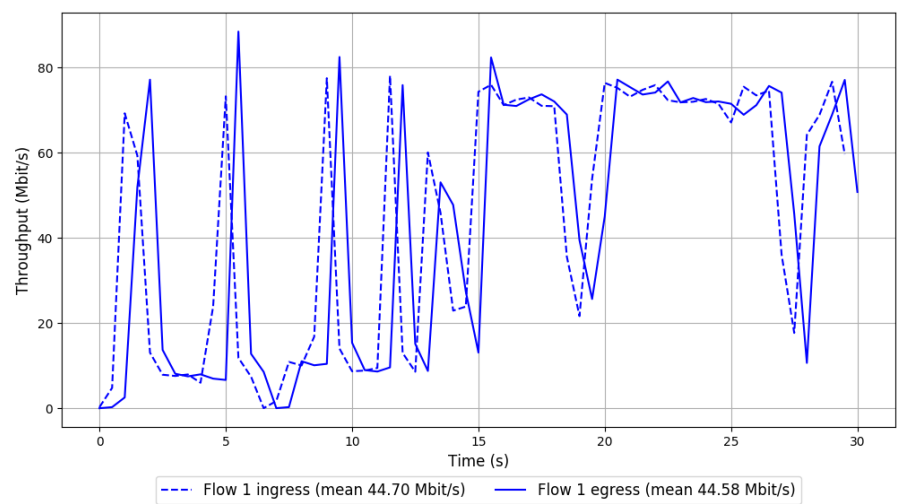
-- Flow 1:

Average throughput: 44.58 Mbit/s

95th percentile per-packet one-way delay: 61.559 ms

Loss rate: 0.68%

Run 10: Report of QUIC Cubic — Data Link

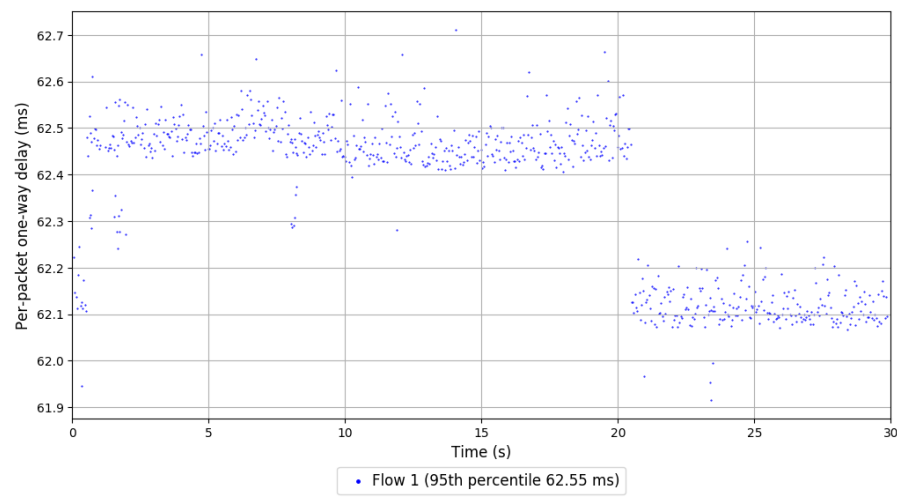
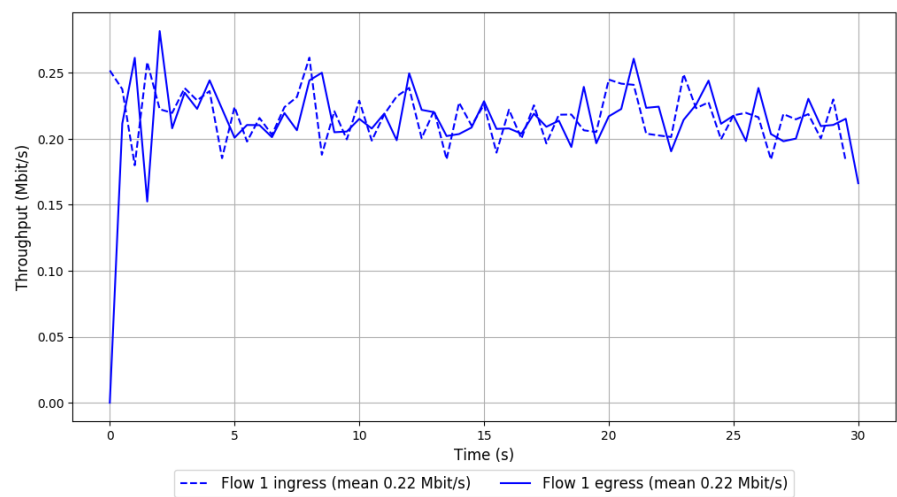


Run 1: Statistics of SCReAM

Start at: 2018-07-04 23:11:29
End at: 2018-07-04 23:11:59
Local clock offset: -0.15 ms
Remote clock offset: -1.168 ms

Below is generated by plot.py at 2018-07-05 04:34:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.549 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.549 ms
Loss rate: 0.38%

Run 1: Report of SReAM — Data Link

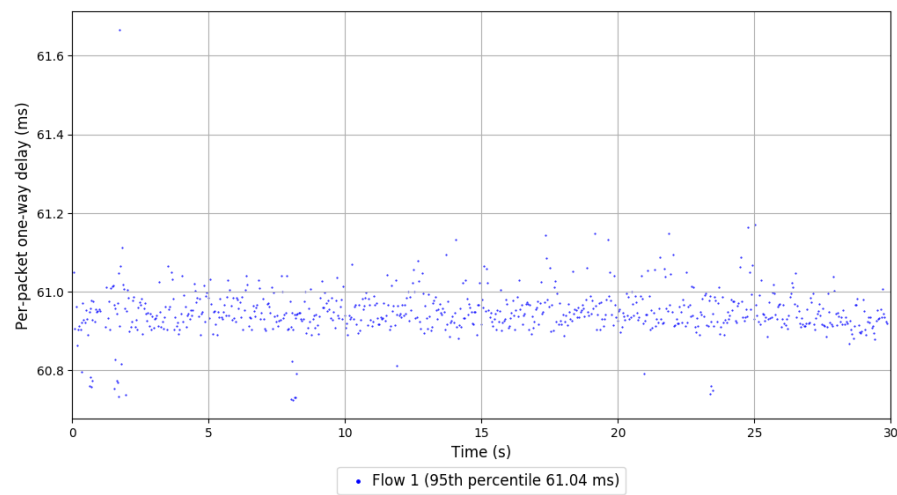
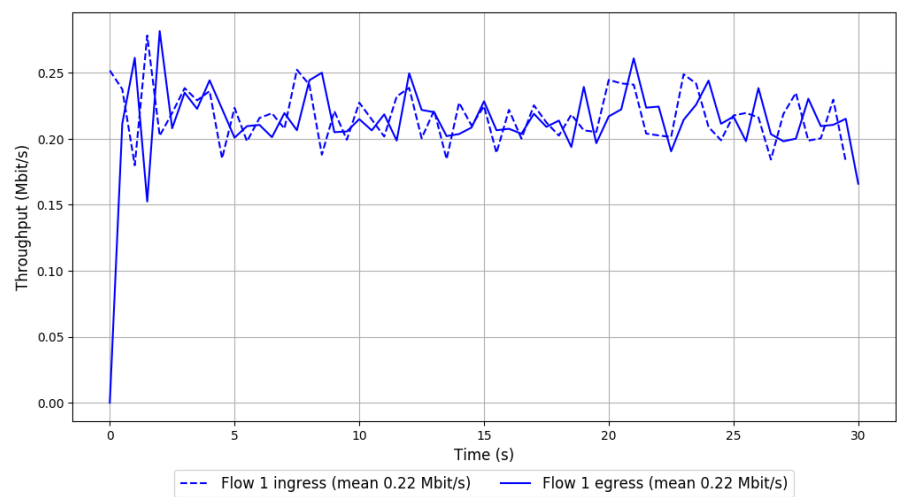


```
Run 2: Statistics of SCReAM

Start at: 2018-07-04 23:33:49
End at: 2018-07-04 23:34:19
Local clock offset: -0.198 ms
Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2018-07-05 04:34:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.042 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.042 ms
Loss rate: 0.38%
```

Run 2: Report of SReAM — Data Link

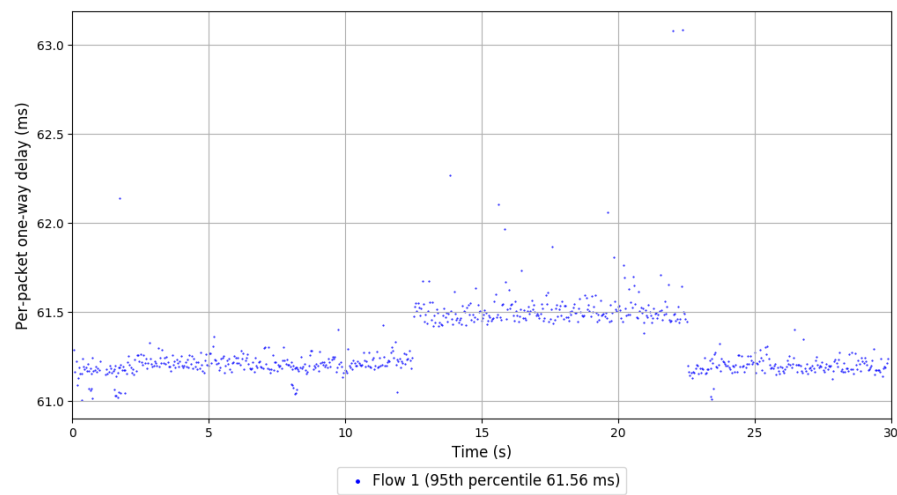
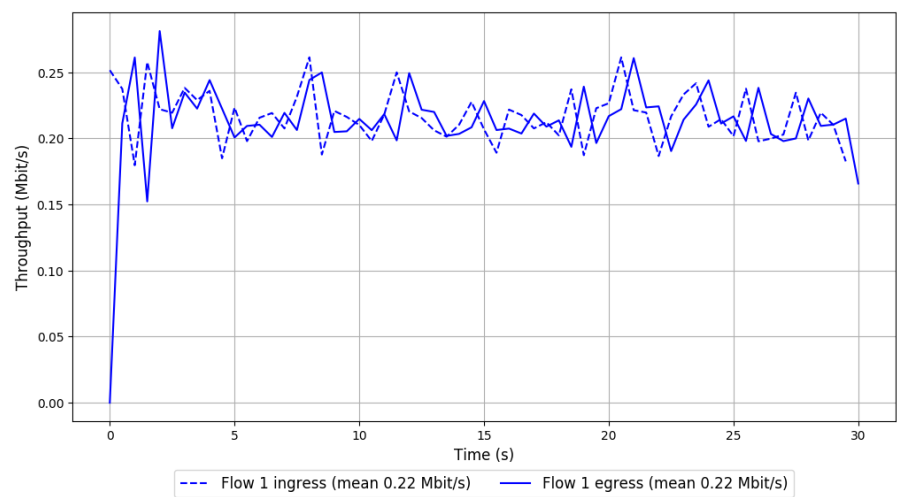


Run 3: Statistics of SReAM

Start at: 2018-07-04 23:56:17
End at: 2018-07-04 23:56:47
Local clock offset: -0.241 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-07-05 04:34:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.557 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.557 ms
Loss rate: 0.38%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-07-05 00:18:22

End at: 2018-07-05 00:18:52

Local clock offset: -0.225 ms

Remote clock offset: 1.235 ms

Below is generated by plot.py at 2018-07-05 04:34:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 60.108 ms

Loss rate: 0.39%

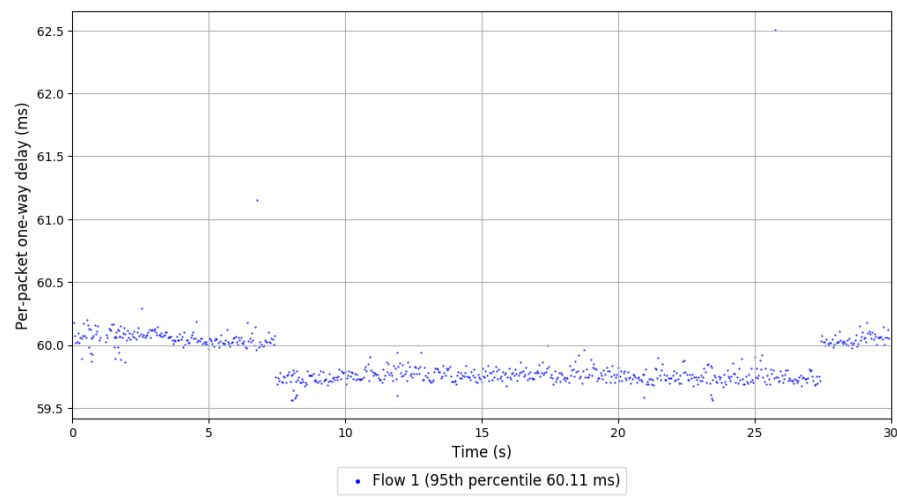
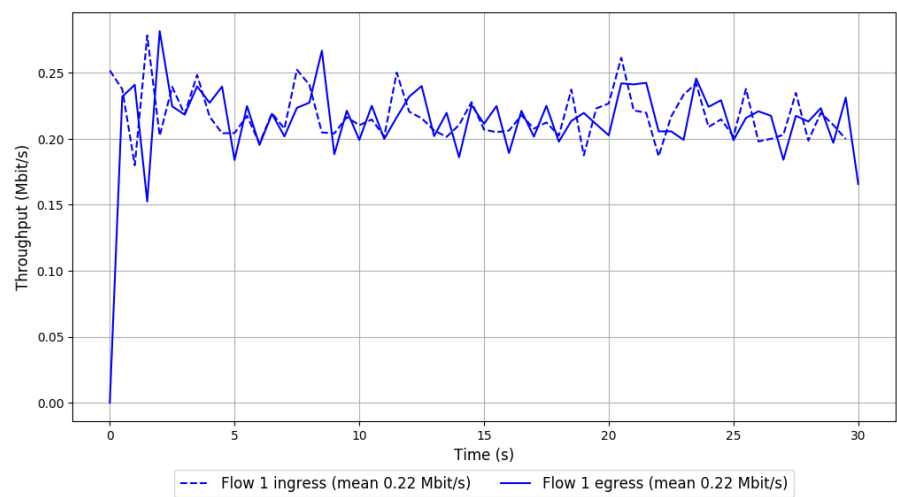
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 60.108 ms

Loss rate: 0.39%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-07-05 00:40:42

End at: 2018-07-05 00:41:12

Local clock offset: -0.265 ms

Remote clock offset: 1.498 ms

Below is generated by plot.py at 2018-07-05 04:34:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 59.842 ms

Loss rate: 0.38%

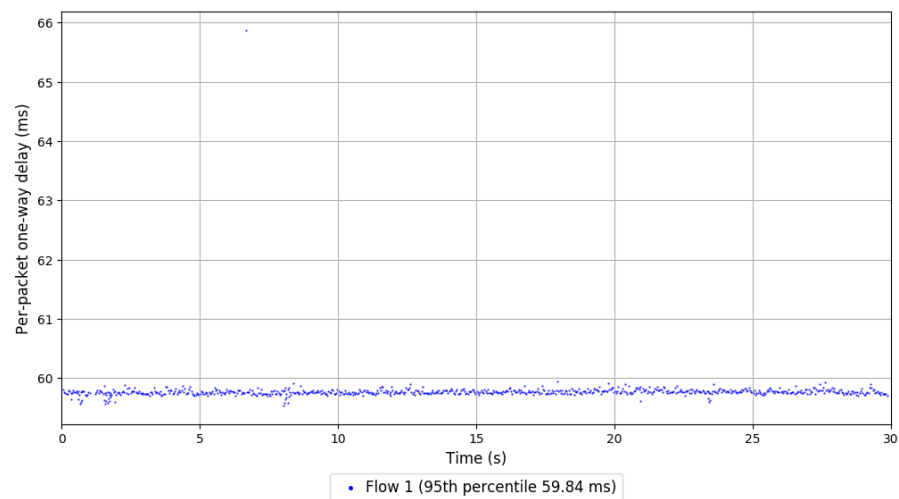
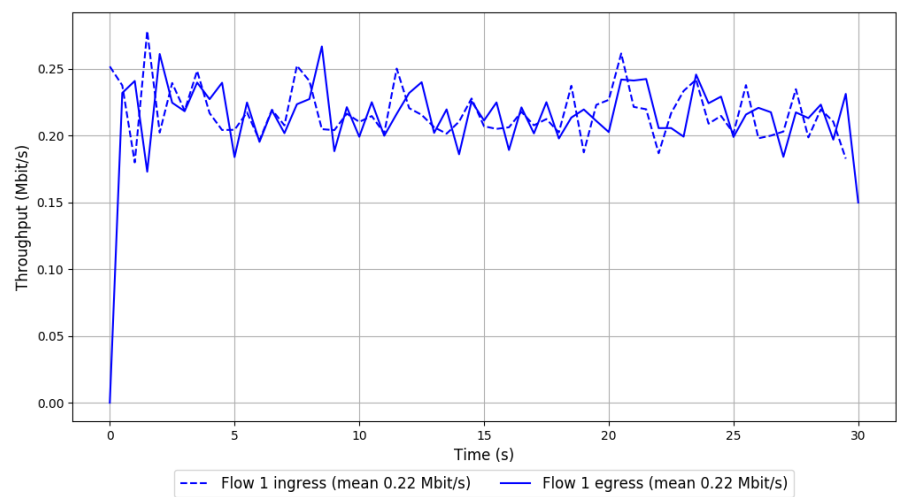
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 59.842 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link

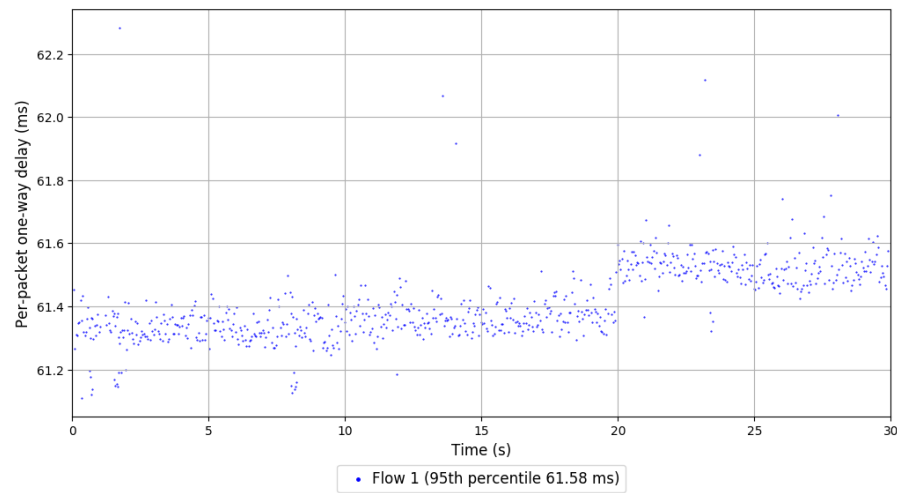
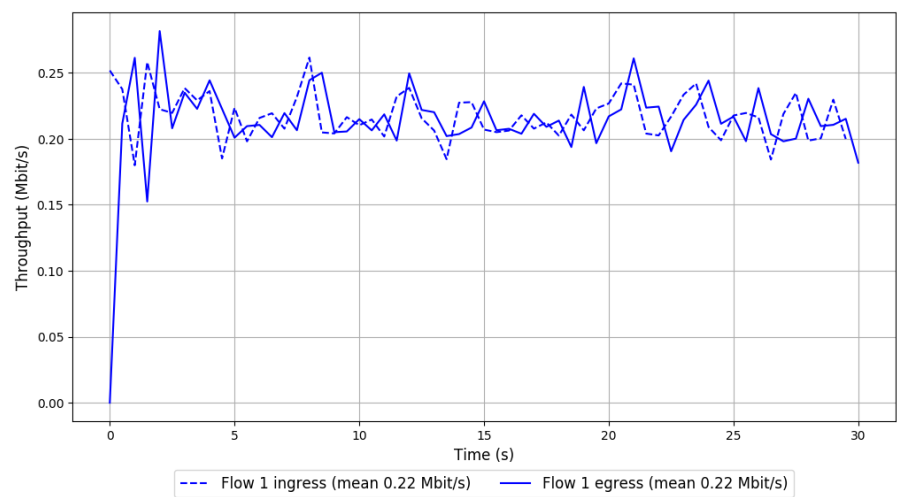


Run 6: Statistics of SCReAM

Start at: 2018-07-05 01:03:00
End at: 2018-07-05 01:03:30
Local clock offset: -0.283 ms
Remote clock offset: -0.102 ms

Below is generated by plot.py at 2018-07-05 04:34:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.575 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.575 ms
Loss rate: 0.39%

Run 6: Report of SReAM — Data Link

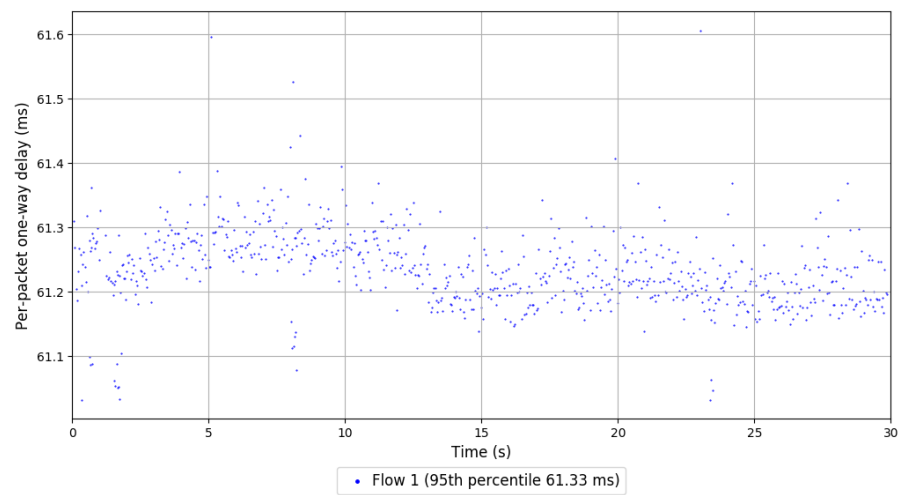
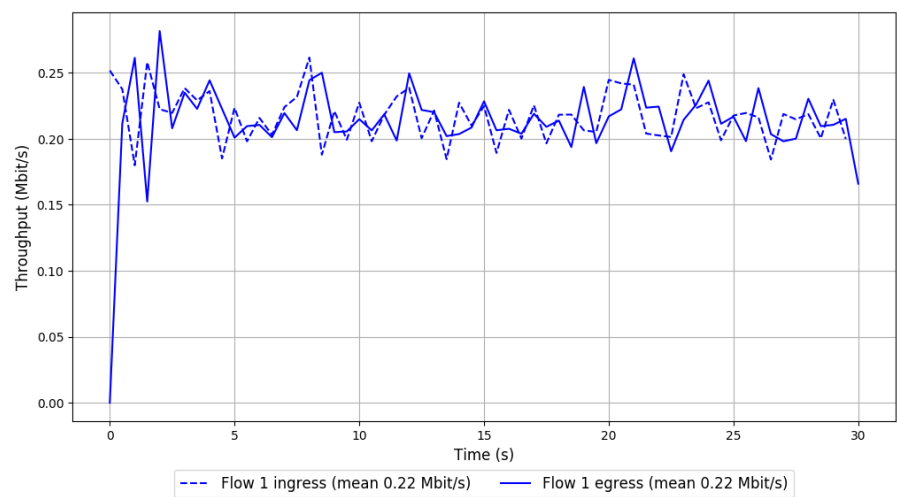


Run 7: Statistics of SCReAM

Start at: 2018-07-05 01:25:27
End at: 2018-07-05 01:25:57
Local clock offset: -0.323 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-07-05 04:34:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.329 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.329 ms
Loss rate: 0.51%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-07-05 01:47:56

End at: 2018-07-05 01:48:26

Local clock offset: -0.371 ms

Remote clock offset: 1.102 ms

Below is generated by plot.py at 2018-07-05 04:34:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 60.260 ms

Loss rate: 0.38%

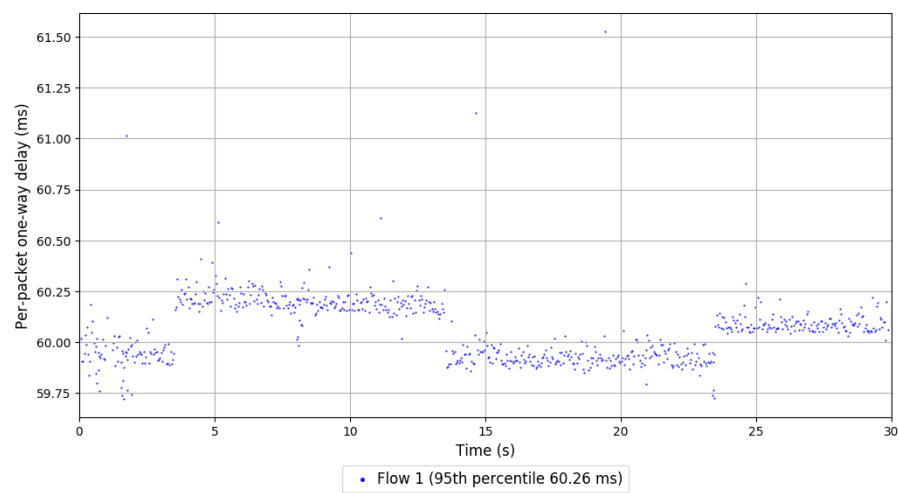
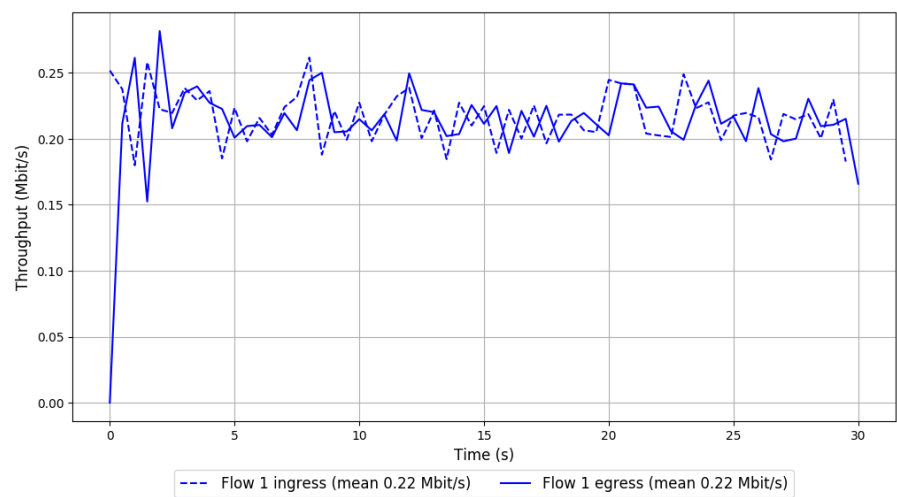
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 60.260 ms

Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-07-05 02:10:09

End at: 2018-07-05 02:10:39

Local clock offset: -0.39 ms

Remote clock offset: 0.414 ms

Below is generated by plot.py at 2018-07-05 04:34:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.216 ms

Loss rate: 0.38%

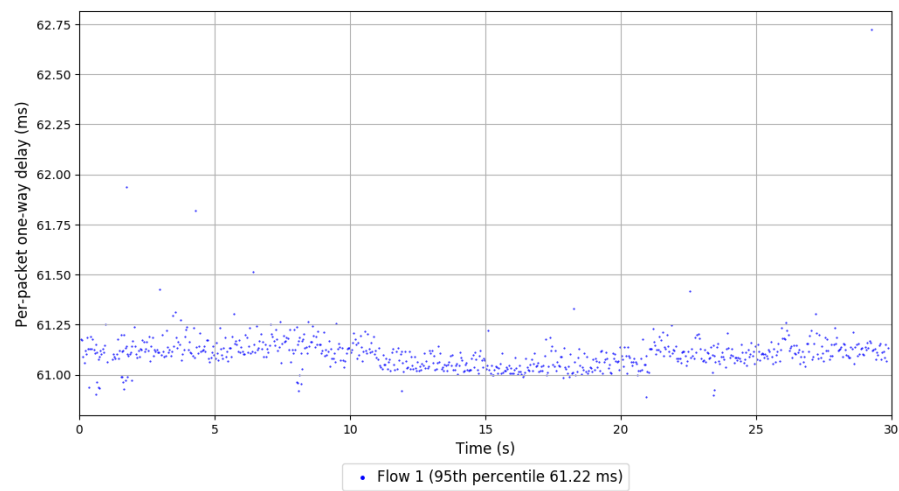
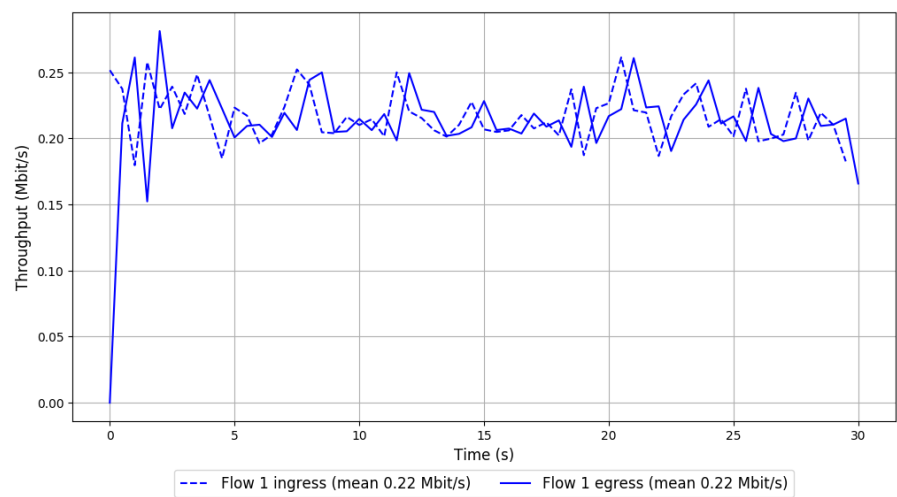
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.216 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link

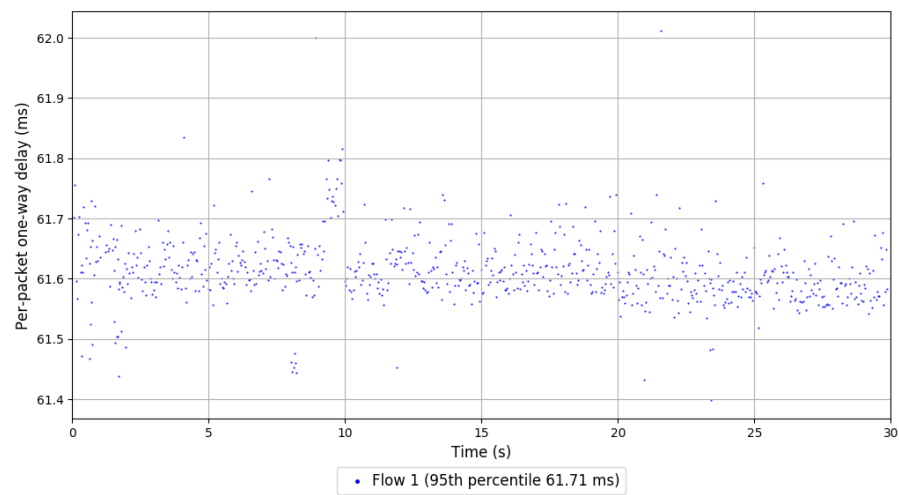
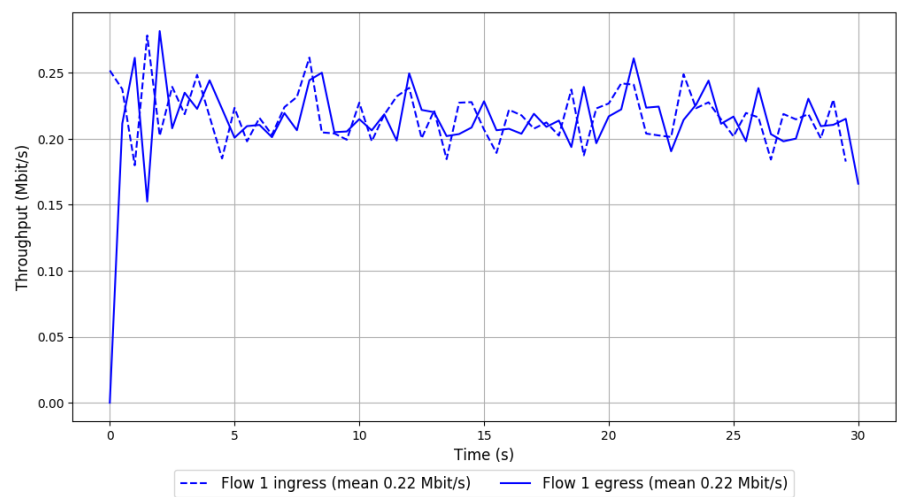


Run 10: Statistics of SReAM

Start at: 2018-07-05 02:32:10
End at: 2018-07-05 02:32:40
Local clock offset: -0.363 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-07-05 04:34:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.711 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.711 ms
Loss rate: 0.38%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-04 23:15:21

End at: 2018-07-04 23:15:51

Local clock offset: -0.198 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-07-05 04:34:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.88 Mbit/s

95th percentile per-packet one-way delay: 61.500 ms

Loss rate: 0.09%

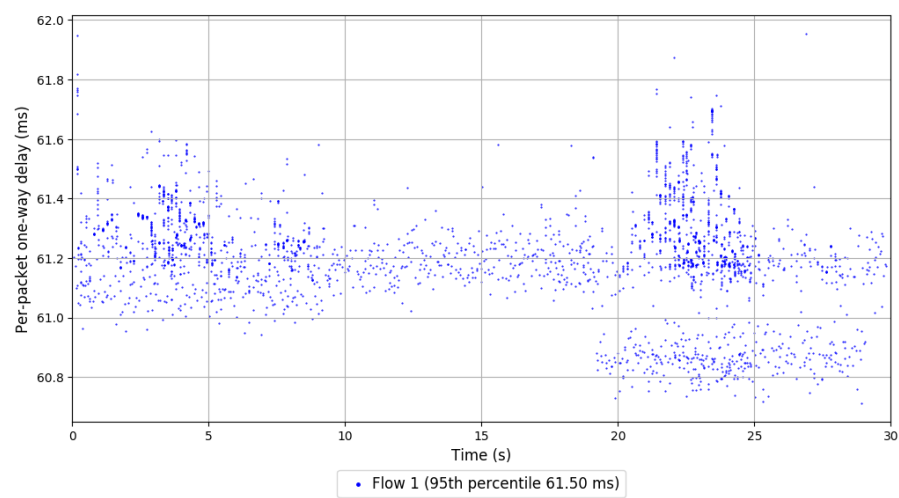
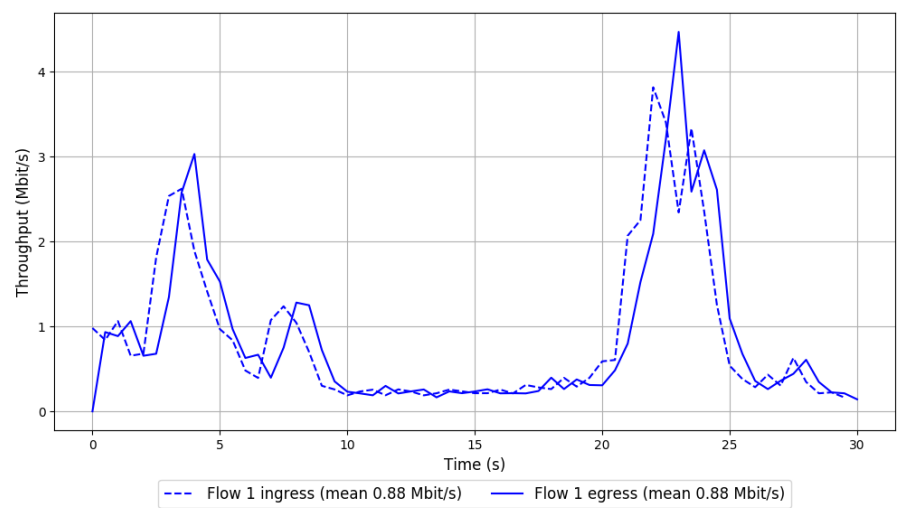
-- Flow 1:

Average throughput: 0.88 Mbit/s

95th percentile per-packet one-way delay: 61.500 ms

Loss rate: 0.09%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-07-04 23:37:40

End at: 2018-07-04 23:38:10

Local clock offset: -0.227 ms

Remote clock offset: 1.203 ms

Below is generated by plot.py at 2018-07-05 04:34:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.87 Mbit/s

95th percentile per-packet one-way delay: 60.243 ms

Loss rate: 0.44%

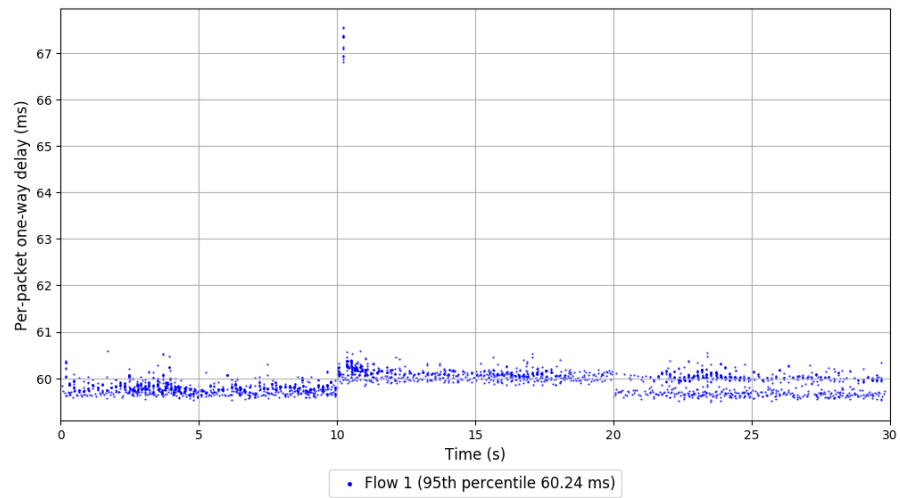
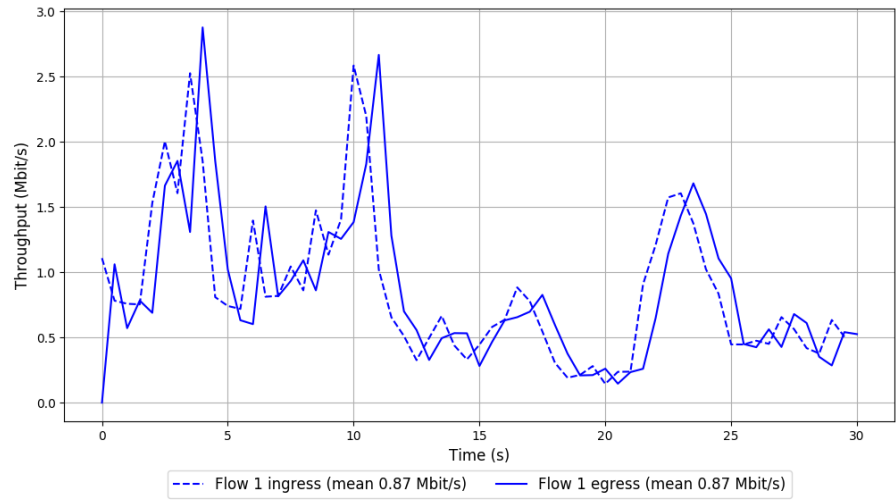
-- Flow 1:

Average throughput: 0.87 Mbit/s

95th percentile per-packet one-way delay: 60.243 ms

Loss rate: 0.44%

Run 2: Report of Sprout — Data Link

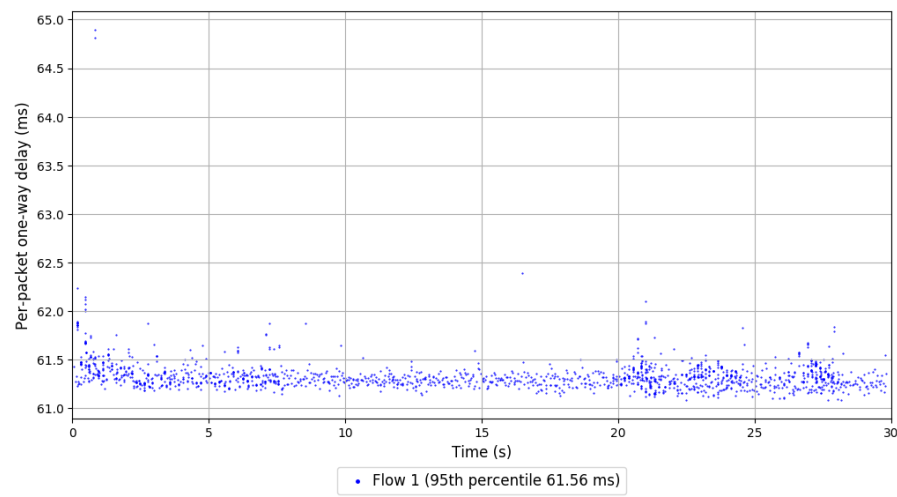
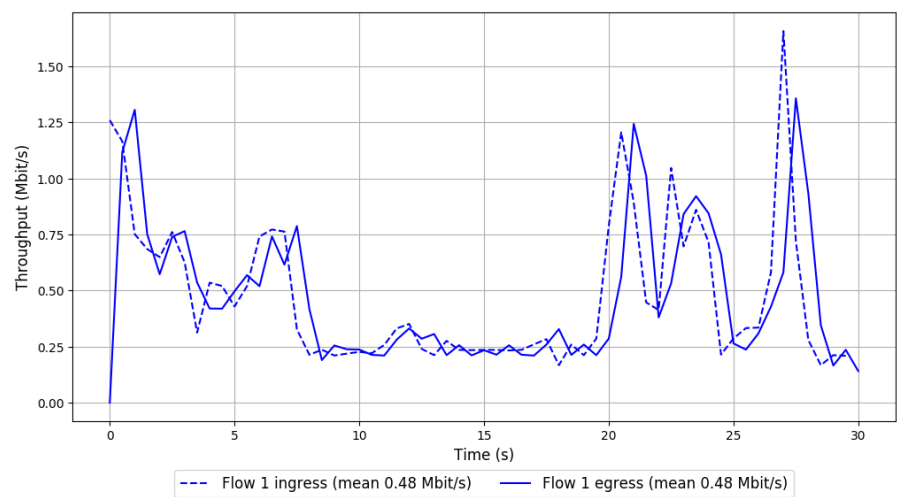


Run 3: Statistics of Sprout

Start at: 2018-07-05 00:00:07
End at: 2018-07-05 00:00:37
Local clock offset: -0.179 ms
Remote clock offset: -0.089 ms

Below is generated by plot.py at 2018-07-05 04:34:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 61.556 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 61.556 ms
Loss rate: 0.24%

Run 3: Report of Sprout — Data Link

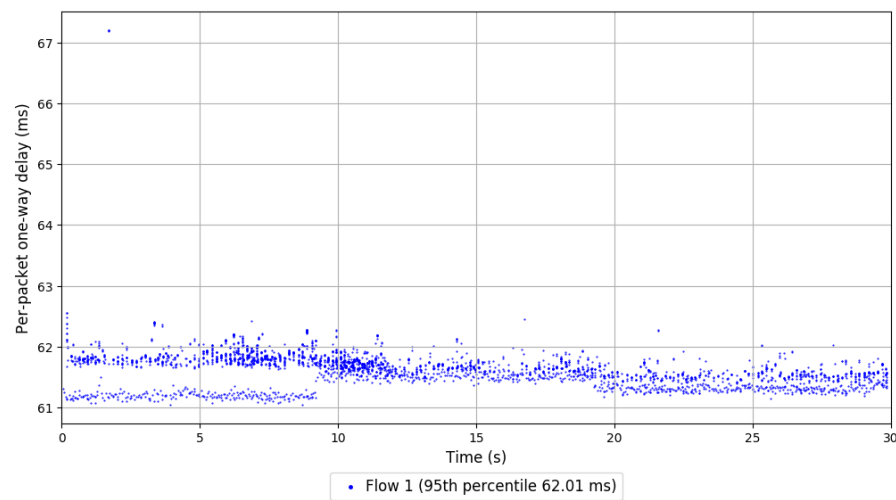
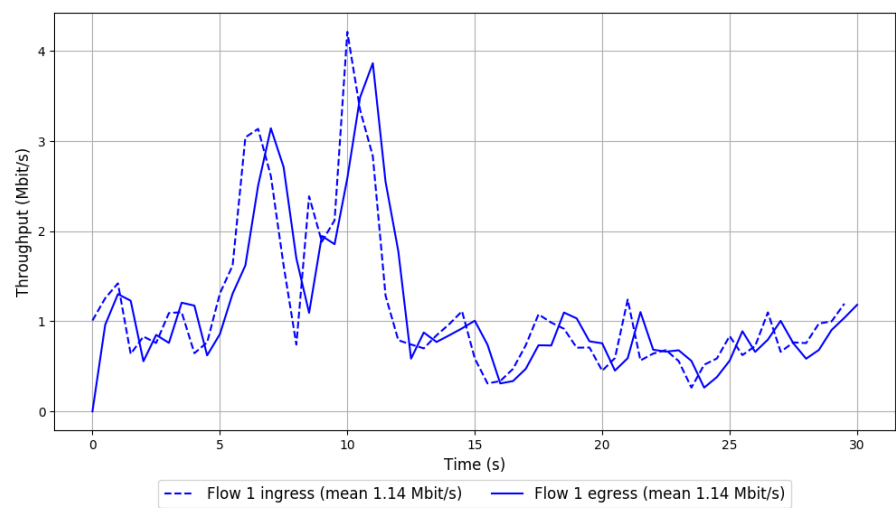


Run 4: Statistics of Sprout

Start at: 2018-07-05 00:22:10
End at: 2018-07-05 00:22:40
Local clock offset: -0.282 ms
Remote clock offset: -0.324 ms

Below is generated by plot.py at 2018-07-05 04:34:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.14 Mbit/s
95th percentile per-packet one-way delay: 62.014 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 1.14 Mbit/s
95th percentile per-packet one-way delay: 62.014 ms
Loss rate: 0.44%

Run 4: Report of Sprout — Data Link

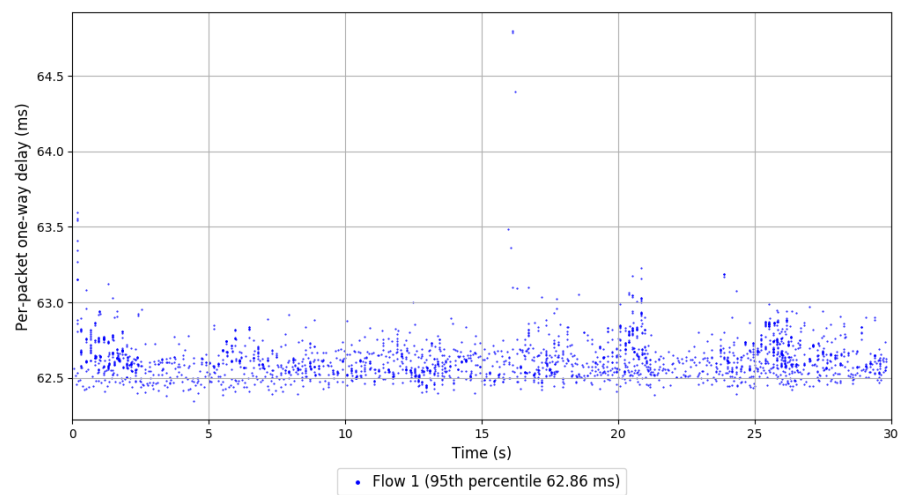
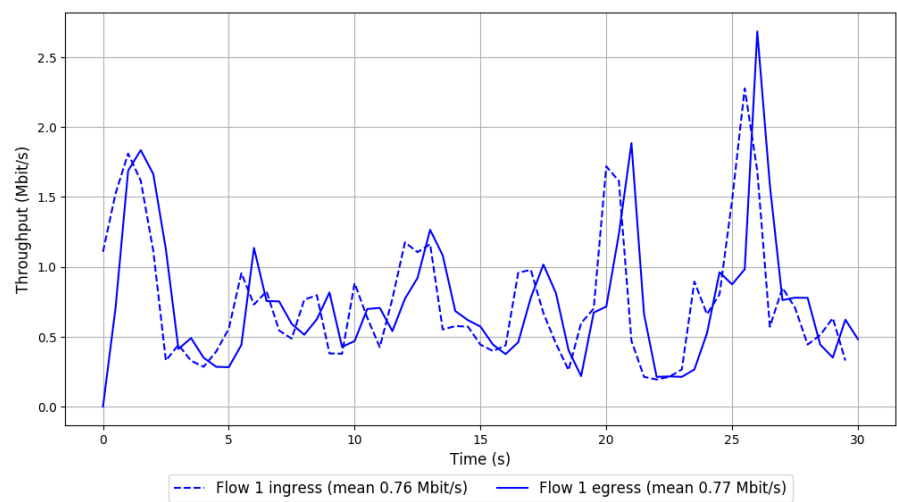


Run 5: Statistics of Sprout

Start at: 2018-07-05 00:44:31
End at: 2018-07-05 00:45:01
Local clock offset: -0.275 ms
Remote clock offset: -1.375 ms

Below is generated by plot.py at 2018-07-05 04:34:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 62.858 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 62.858 ms
Loss rate: 0.05%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-07-05 01:06:50

End at: 2018-07-05 01:07:20

Local clock offset: -0.305 ms

Remote clock offset: 1.181 ms

Below is generated by plot.py at 2018-07-05 04:34:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 60.319 ms

Loss rate: 0.63%

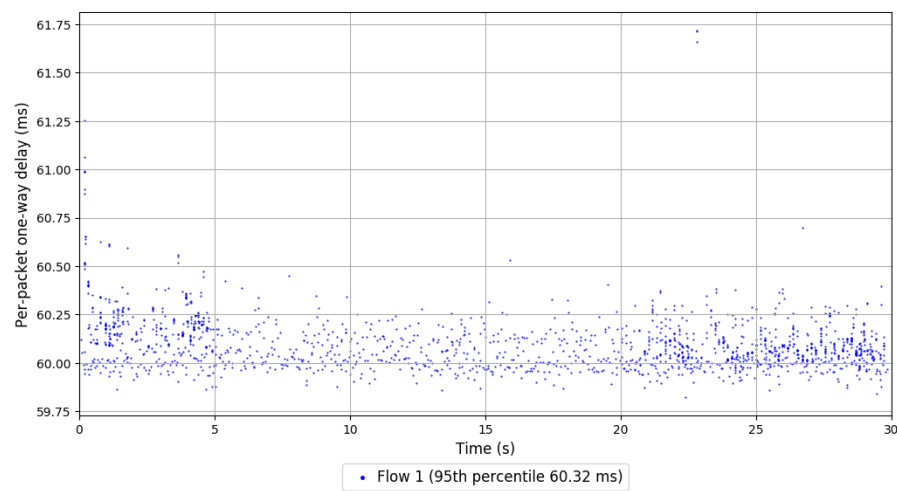
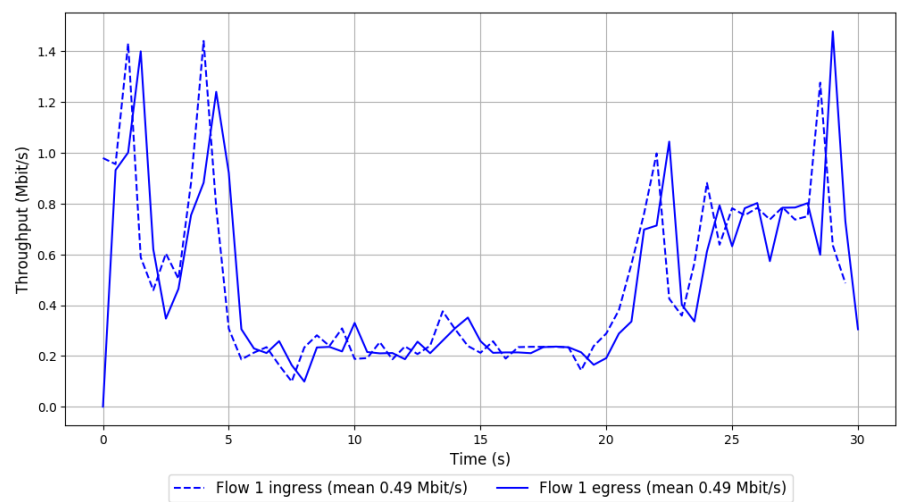
-- Flow 1:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 60.319 ms

Loss rate: 0.63%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-07-05 01:29:16

End at: 2018-07-05 01:29:46

Local clock offset: -0.34 ms

Remote clock offset: 1.342 ms

Below is generated by plot.py at 2018-07-05 04:34:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 60.095 ms

Loss rate: 0.09%

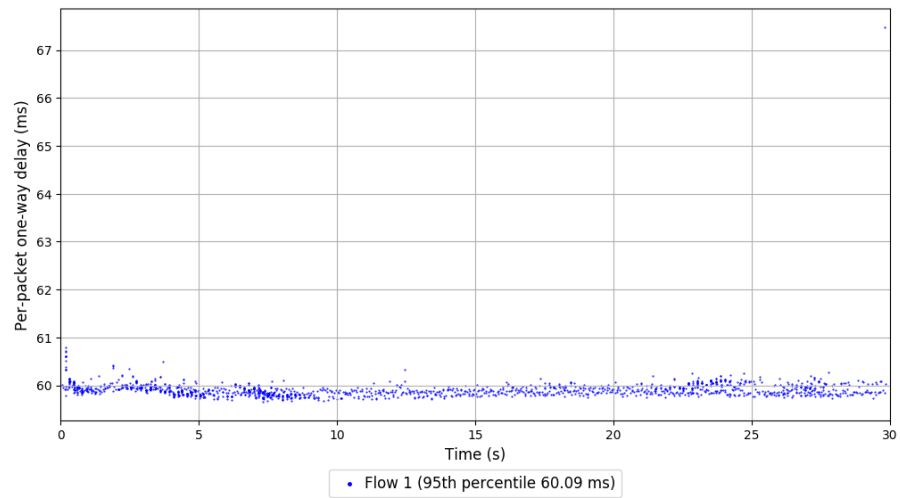
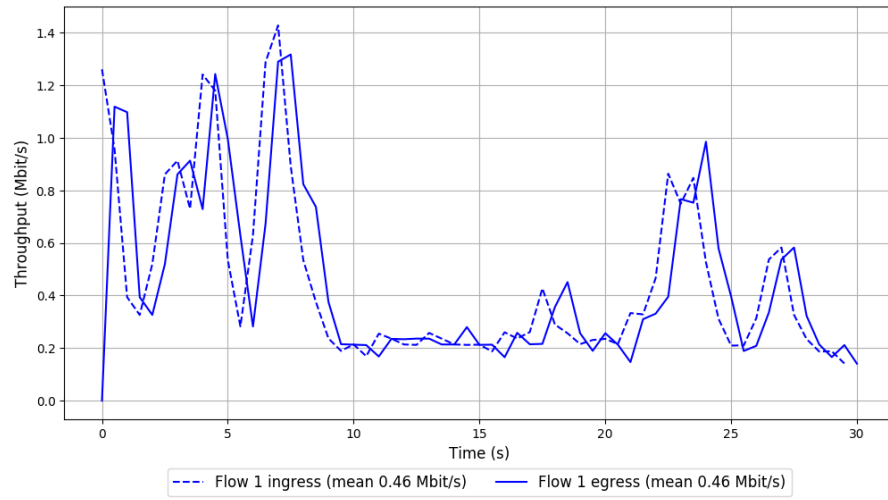
-- Flow 1:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 60.095 ms

Loss rate: 0.09%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-07-05 01:51:46

End at: 2018-07-05 01:52:16

Local clock offset: -0.351 ms

Remote clock offset: 0.107 ms

Below is generated by plot.py at 2018-07-05 04:34:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.77 Mbit/s

95th percentile per-packet one-way delay: 61.499 ms

Loss rate: 0.11%

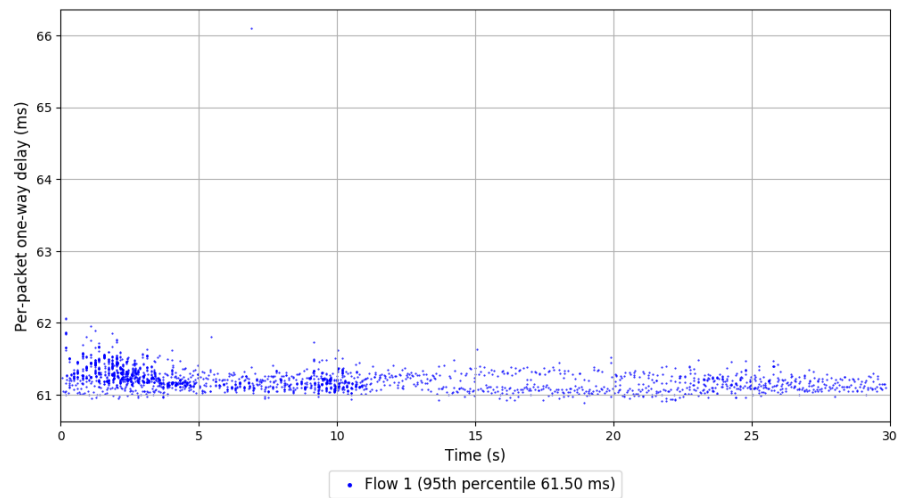
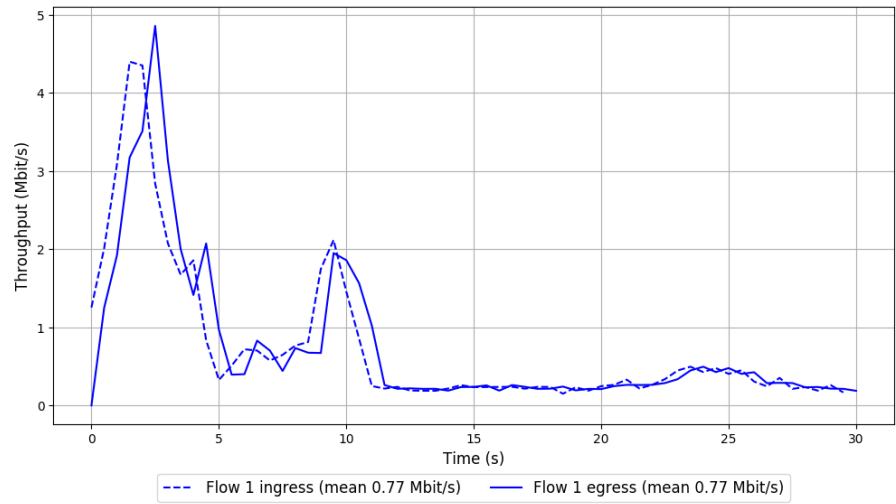
-- Flow 1:

Average throughput: 0.77 Mbit/s

95th percentile per-packet one-way delay: 61.499 ms

Loss rate: 0.11%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-07-05 02:14:00

End at: 2018-07-05 02:14:30

Local clock offset: -0.406 ms

Remote clock offset: 0.495 ms

Below is generated by plot.py at 2018-07-05 04:34:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 61.715 ms

Loss rate: 1.61%

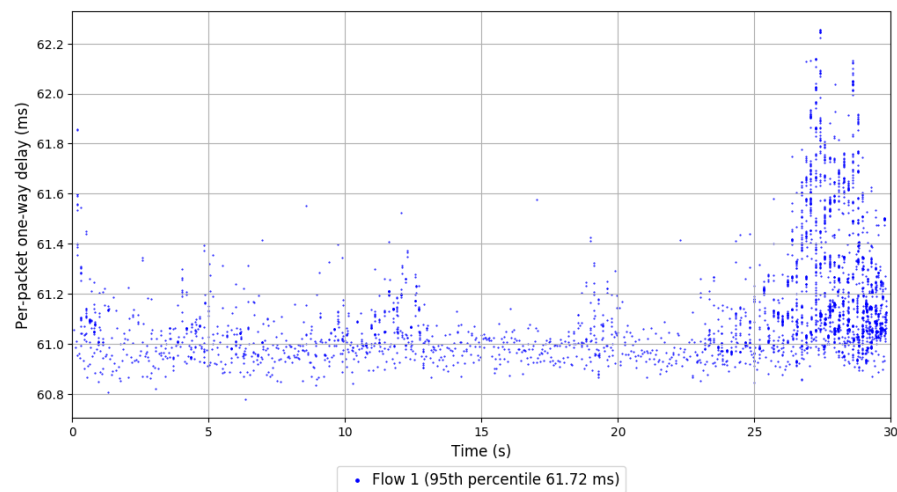
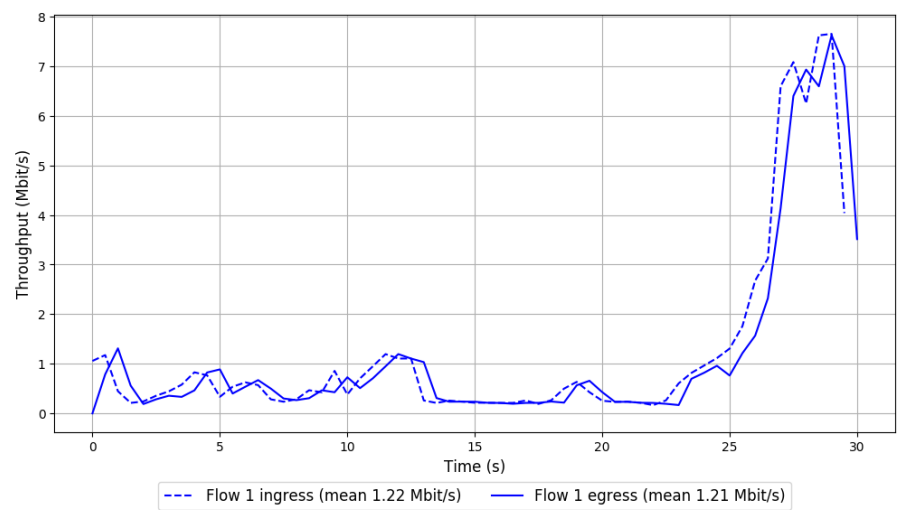
-- Flow 1:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 61.715 ms

Loss rate: 1.61%

Run 9: Report of Sprout — Data Link

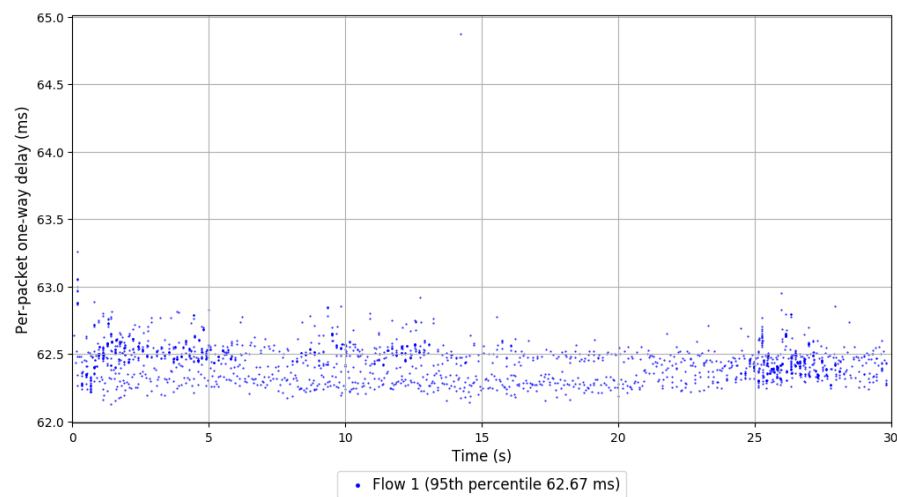
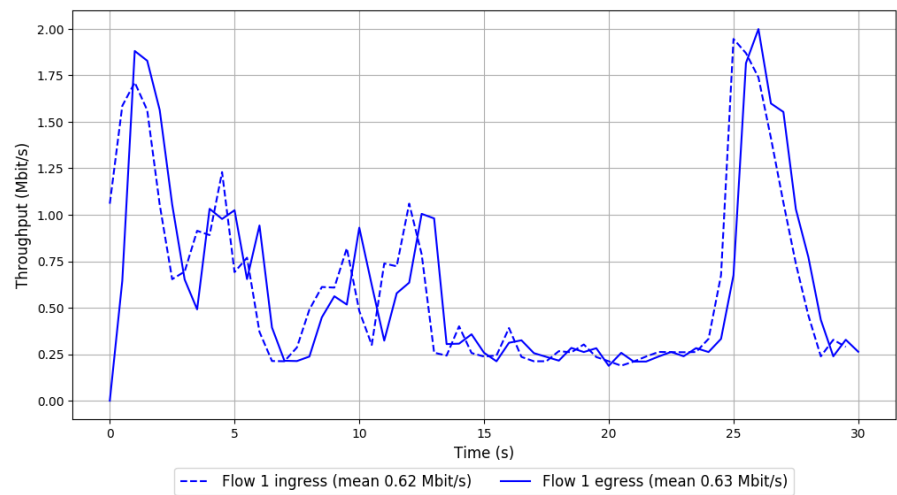


Run 10: Statistics of Sprout

Start at: 2018-07-05 02:35:59
End at: 2018-07-05 02:36:29
Local clock offset: -0.438 ms
Remote clock offset: -0.895 ms

Below is generated by plot.py at 2018-07-05 04:34:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 62.673 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 62.673 ms
Loss rate: 0.14%

Run 10: Report of Sprout — Data Link

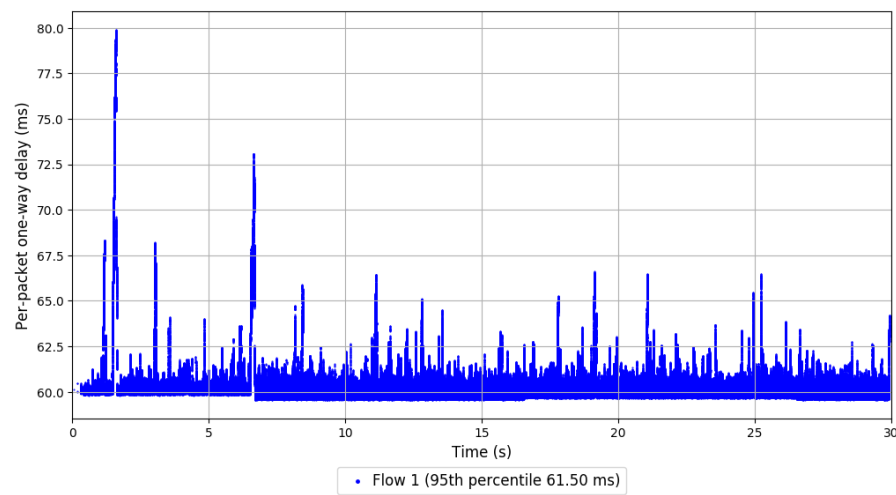
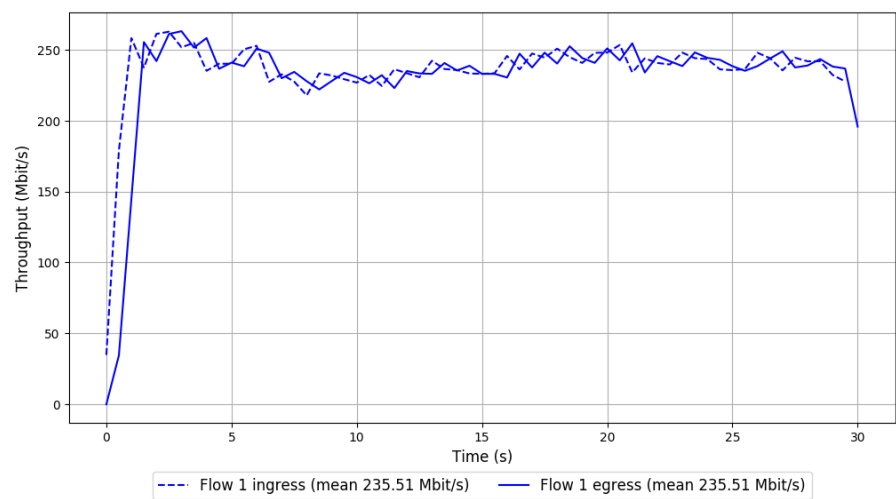


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-04 23:23:13
End at: 2018-07-04 23:23:43
Local clock offset: -0.186 ms
Remote clock offset: 1.145 ms

# Below is generated by plot.py at 2018-07-05 04:37:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 235.51 Mbit/s
95th percentile per-packet one-way delay: 61.496 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 235.51 Mbit/s
95th percentile per-packet one-way delay: 61.496 ms
Loss rate: 0.41%
```


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

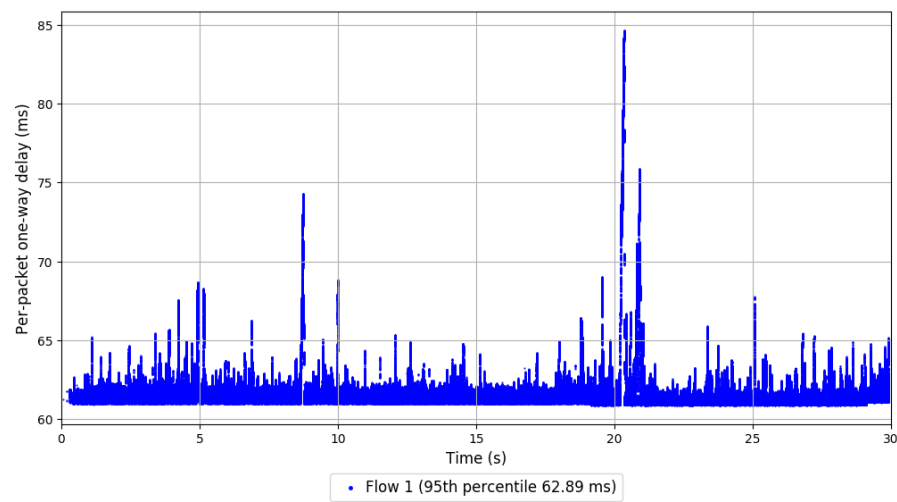
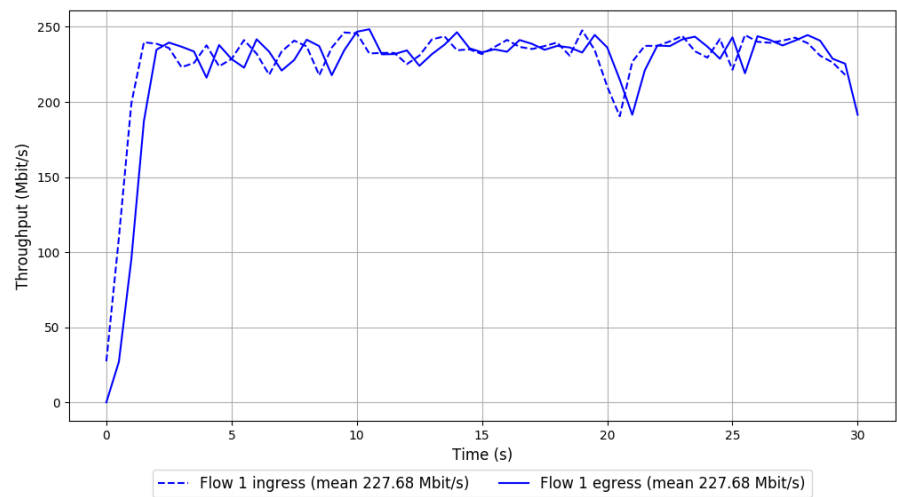


Run 2: Statistics of TaoVA-100x

Start at: 2018-07-04 23:45:41
End at: 2018-07-04 23:46:11
Local clock offset: -0.198 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-07-05 04:37:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 227.68 Mbit/s
95th percentile per-packet one-way delay: 62.889 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 227.68 Mbit/s
95th percentile per-packet one-way delay: 62.889 ms
Loss rate: 0.41%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-05 00:07:54

End at: 2018-07-05 00:08:24

Local clock offset: -0.19 ms

Remote clock offset: -0.303 ms

Below is generated by plot.py at 2018-07-05 04:37:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 237.36 Mbit/s

95th percentile per-packet one-way delay: 63.170 ms

Loss rate: 0.44%

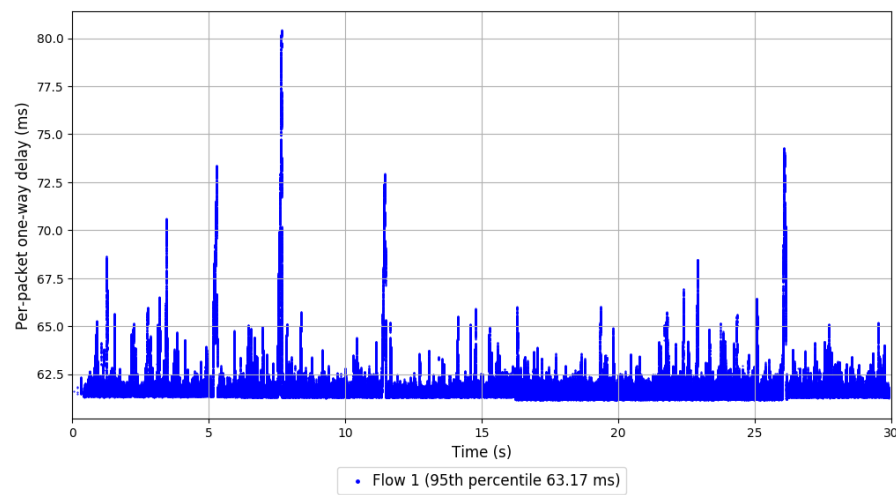
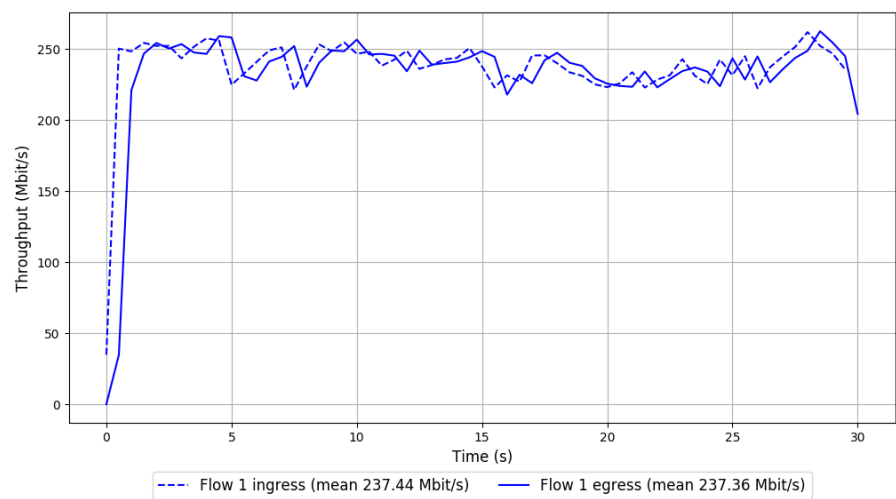
-- Flow 1:

Average throughput: 237.36 Mbit/s

95th percentile per-packet one-way delay: 63.170 ms

Loss rate: 0.44%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-05 00:30:03

End at: 2018-07-05 00:30:33

Local clock offset: -0.262 ms

Remote clock offset: -0.219 ms

Below is generated by plot.py at 2018-07-05 04:40:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.61 Mbit/s

95th percentile per-packet one-way delay: 63.505 ms

Loss rate: 0.30%

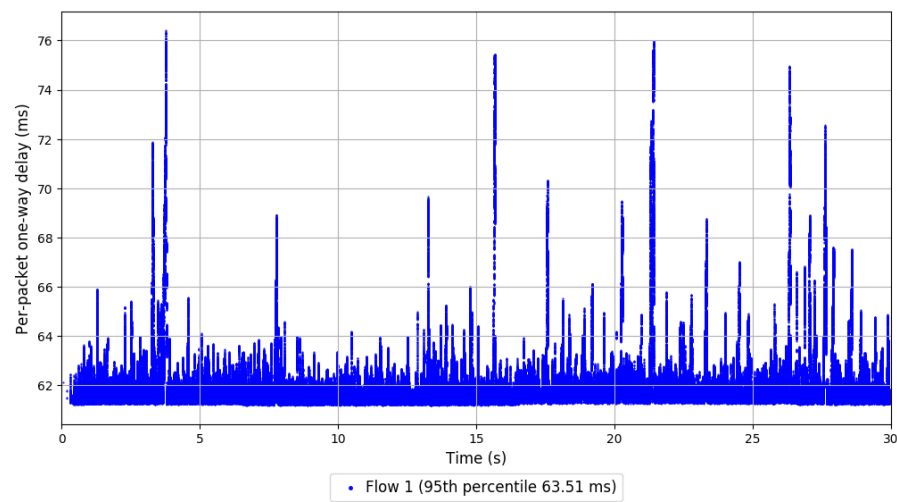
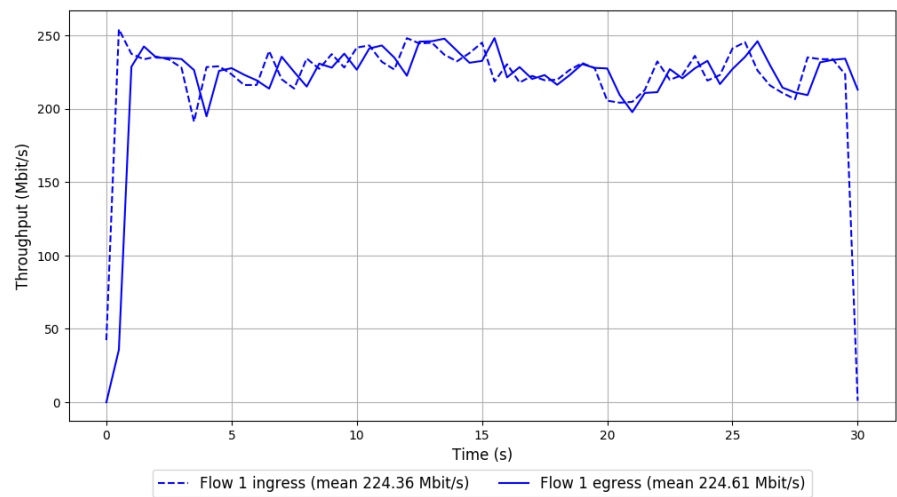
-- Flow 1:

Average throughput: 224.61 Mbit/s

95th percentile per-packet one-way delay: 63.505 ms

Loss rate: 0.30%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-05 00:52:24

End at: 2018-07-05 00:52:54

Local clock offset: -0.316 ms

Remote clock offset: -0.195 ms

Below is generated by plot.py at 2018-07-05 04:41:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.69 Mbit/s

95th percentile per-packet one-way delay: 62.979 ms

Loss rate: 0.42%

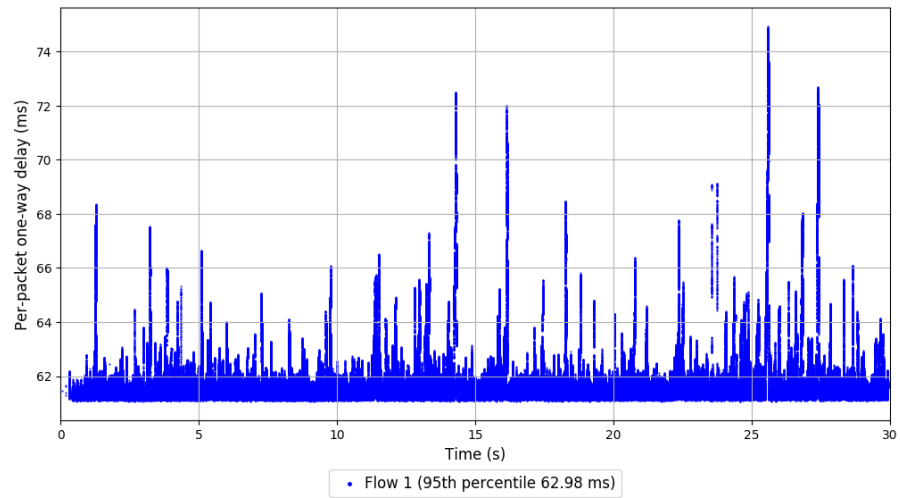
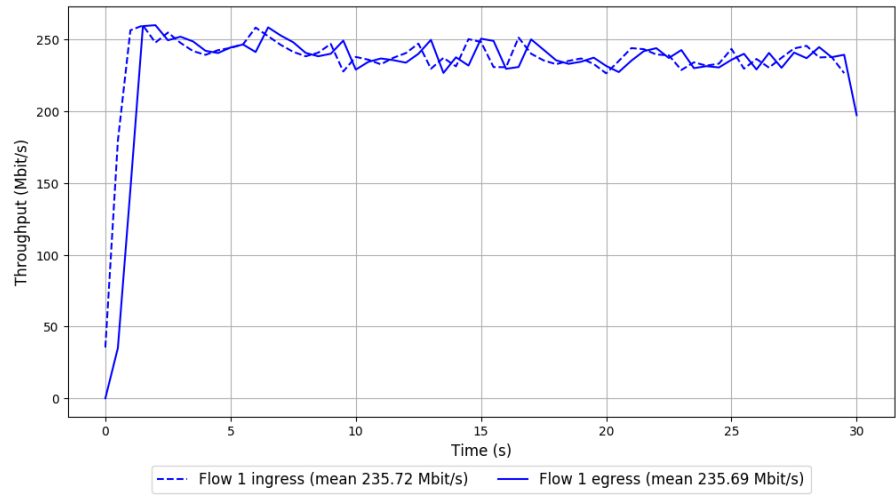
-- Flow 1:

Average throughput: 235.69 Mbit/s

95th percentile per-packet one-way delay: 62.979 ms

Loss rate: 0.42%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-05 01:14:51

End at: 2018-07-05 01:15:21

Local clock offset: -0.34 ms

Remote clock offset: 0.221 ms

Below is generated by plot.py at 2018-07-05 04:42:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.32 Mbit/s

95th percentile per-packet one-way delay: 63.761 ms

Loss rate: 0.41%

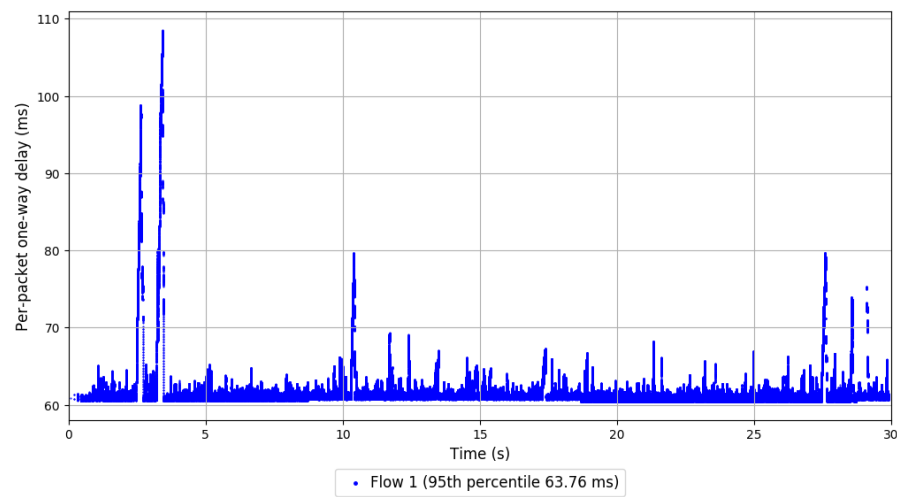
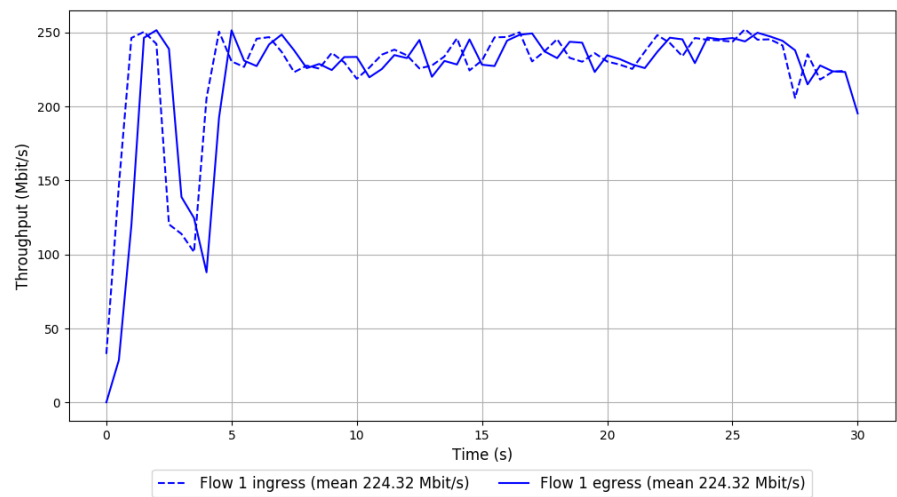
-- Flow 1:

Average throughput: 224.32 Mbit/s

95th percentile per-packet one-way delay: 63.761 ms

Loss rate: 0.41%

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

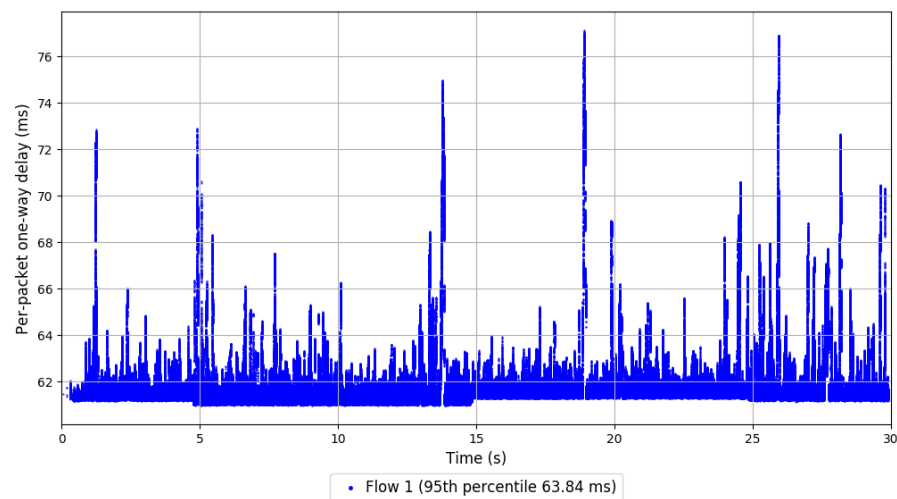
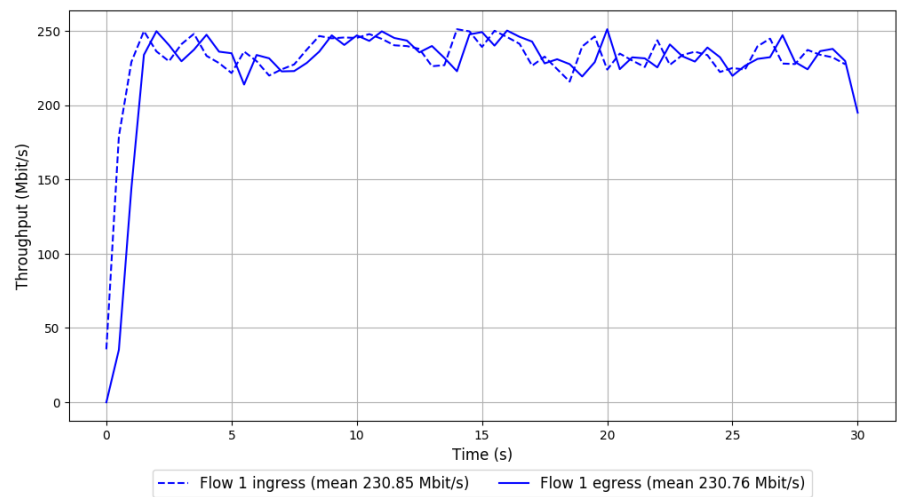


Run 7: Statistics of TaoVA-100x

Start at: 2018-07-05 01:37:15
End at: 2018-07-05 01:37:45
Local clock offset: -0.334 ms
Remote clock offset: -0.146 ms

Below is generated by plot.py at 2018-07-05 04:42:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 230.76 Mbit/s
95th percentile per-packet one-way delay: 63.838 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 230.76 Mbit/s
95th percentile per-packet one-way delay: 63.838 ms
Loss rate: 0.45%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-05 01:59:36

End at: 2018-07-05 02:00:06

Local clock offset: -0.36 ms

Remote clock offset: 0.275 ms

Below is generated by plot.py at 2018-07-05 04:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.48 Mbit/s

95th percentile per-packet one-way delay: 63.503 ms

Loss rate: 0.41%

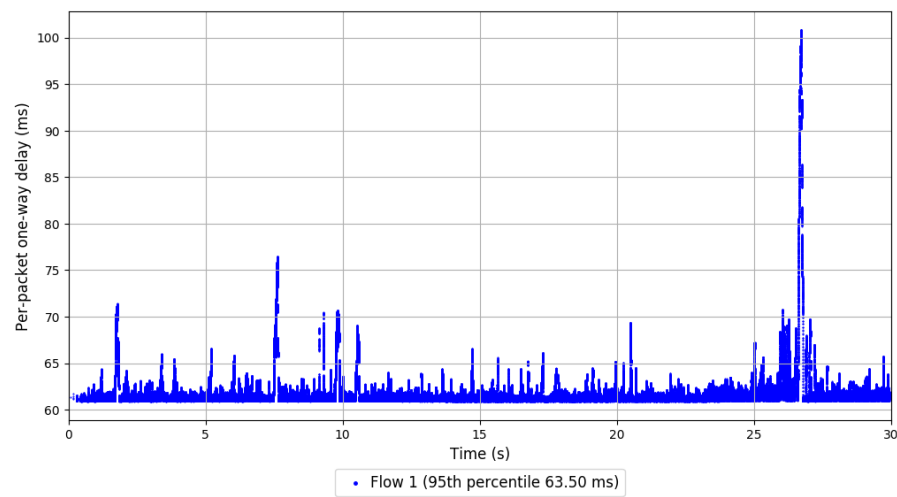
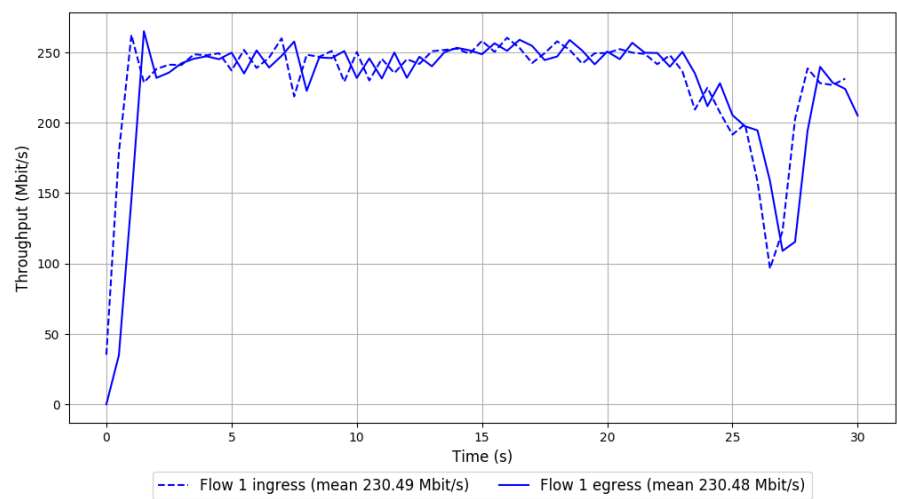
-- Flow 1:

Average throughput: 230.48 Mbit/s

95th percentile per-packet one-way delay: 63.503 ms

Loss rate: 0.41%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-05 02:21:31

End at: 2018-07-05 02:22:01

Local clock offset: -0.412 ms

Remote clock offset: 1.723 ms

Below is generated by plot.py at 2018-07-05 04:46:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 238.91 Mbit/s

95th percentile per-packet one-way delay: 62.269 ms

Loss rate: 0.41%

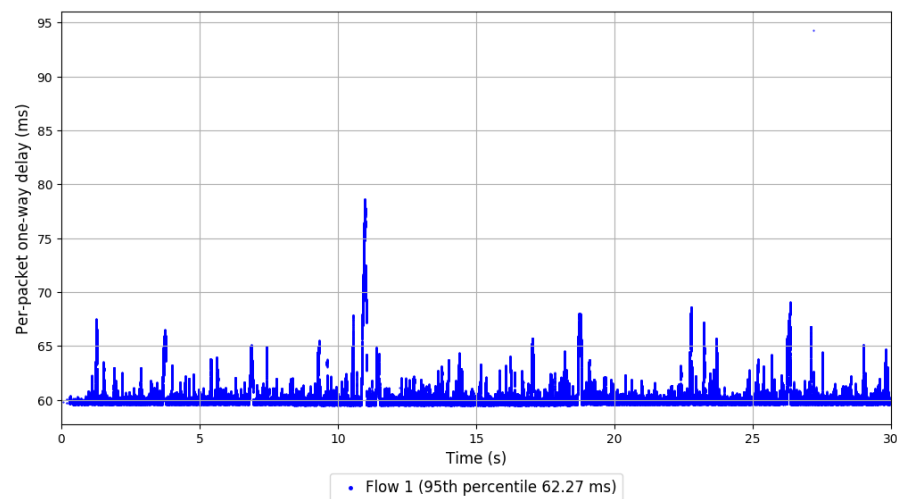
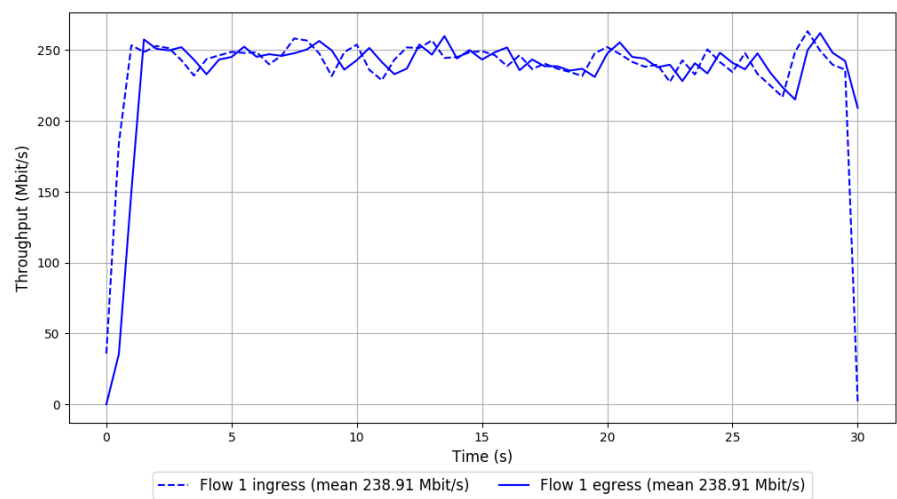
-- Flow 1:

Average throughput: 238.91 Mbit/s

95th percentile per-packet one-way delay: 62.269 ms

Loss rate: 0.41%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-05 02:44:02

End at: 2018-07-05 02:44:32

Local clock offset: -0.437 ms

Remote clock offset: 0.433 ms

Below is generated by plot.py at 2018-07-05 04:46:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.83 Mbit/s

95th percentile per-packet one-way delay: 65.477 ms

Loss rate: 0.41%

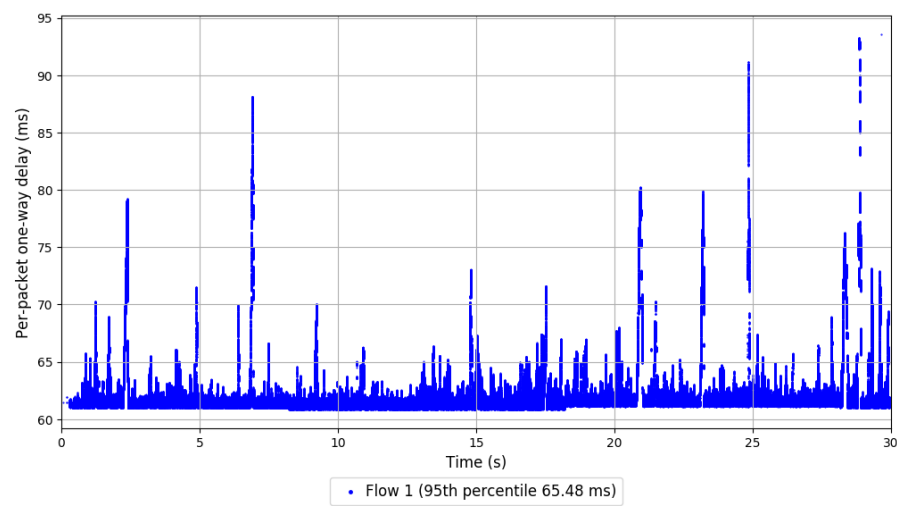
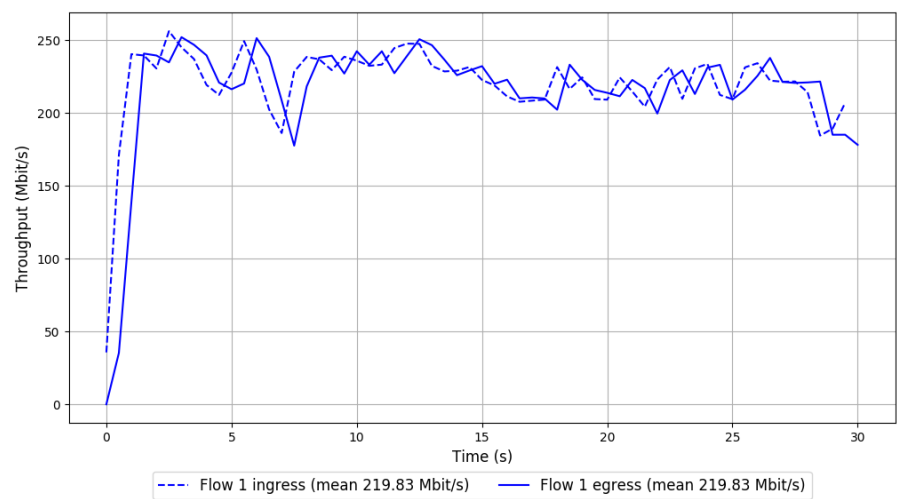
-- Flow 1:

Average throughput: 219.83 Mbit/s

95th percentile per-packet one-way delay: 65.477 ms

Loss rate: 0.41%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-07-04 23:19:10

End at: 2018-07-04 23:19:40

Local clock offset: -0.162 ms

Remote clock offset: 0.153 ms

Below is generated by plot.py at 2018-07-05 04:46:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.20 Mbit/s

95th percentile per-packet one-way delay: 62.404 ms

Loss rate: 0.45%

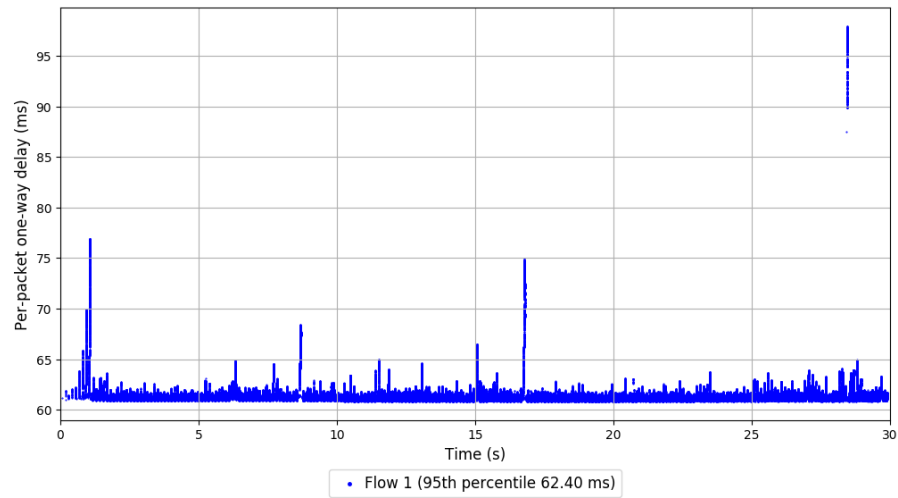
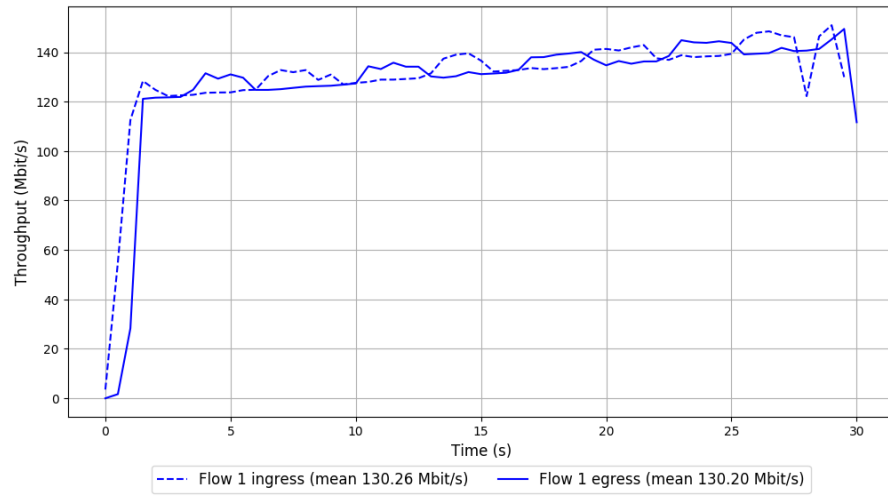
-- Flow 1:

Average throughput: 130.20 Mbit/s

95th percentile per-packet one-way delay: 62.404 ms

Loss rate: 0.45%

Run 1: Report of TCP Vegas — Data Link

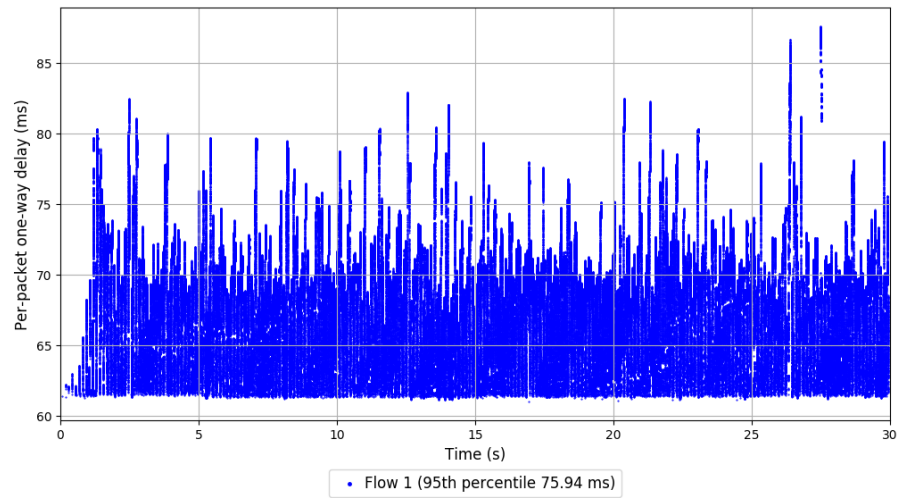
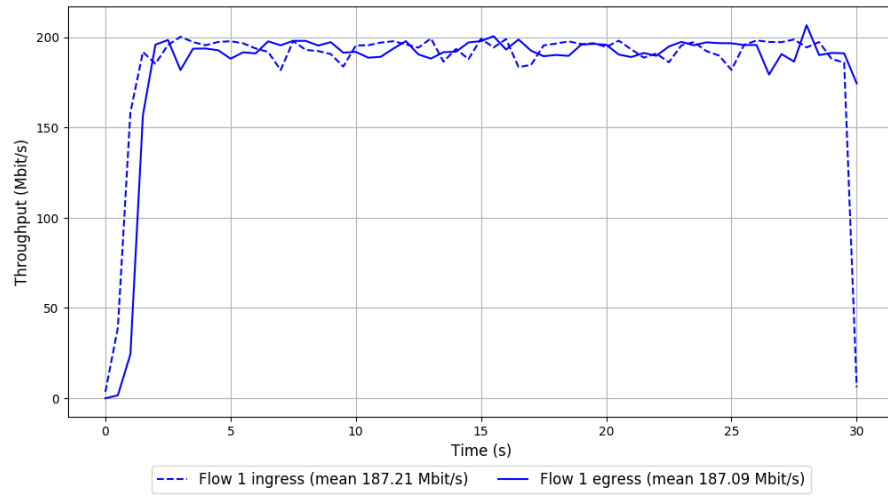


Run 2: Statistics of TCP Vegas

Start at: 2018-07-04 23:41:35
End at: 2018-07-04 23:42:05
Local clock offset: -0.223 ms
Remote clock offset: -0.203 ms

Below is generated by plot.py at 2018-07-05 04:46:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 187.09 Mbit/s
95th percentile per-packet one-way delay: 75.938 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 187.09 Mbit/s
95th percentile per-packet one-way delay: 75.938 ms
Loss rate: 0.47%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-05 00:03:59

End at: 2018-07-05 00:04:29

Local clock offset: -0.221 ms

Remote clock offset: 0.097 ms

Below is generated by plot.py at 2018-07-05 04:46:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.67 Mbit/s

95th percentile per-packet one-way delay: 72.595 ms

Loss rate: 0.47%

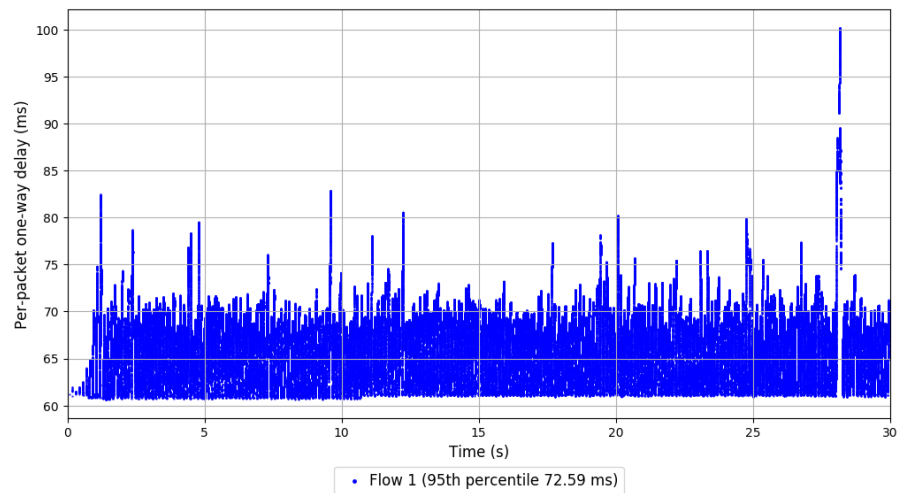
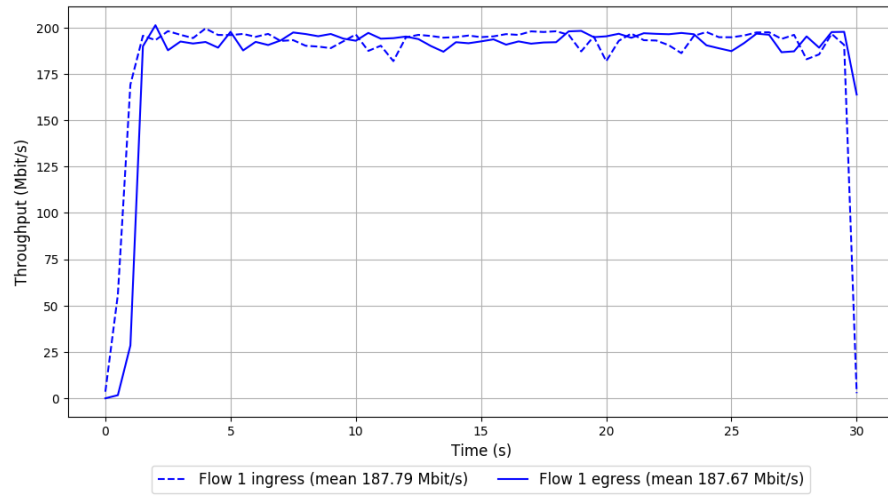
-- Flow 1:

Average throughput: 187.67 Mbit/s

95th percentile per-packet one-way delay: 72.595 ms

Loss rate: 0.47%

Run 3: Report of TCP Vegas — Data Link

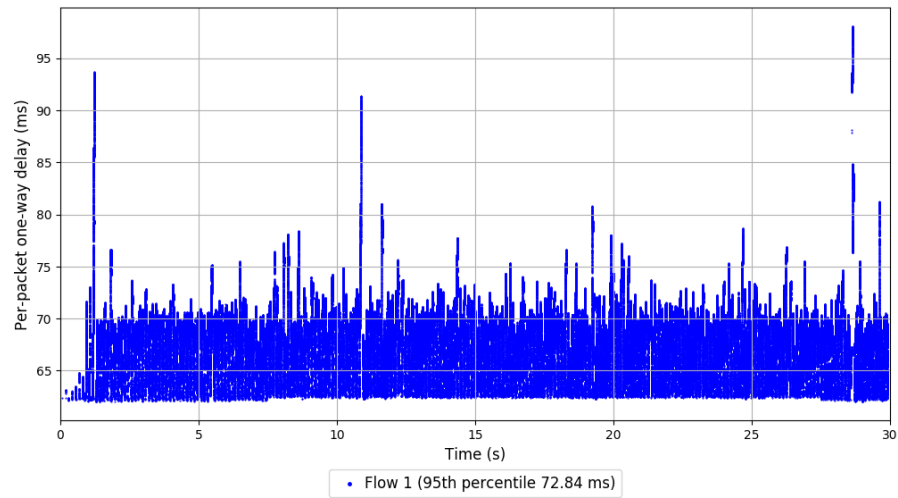
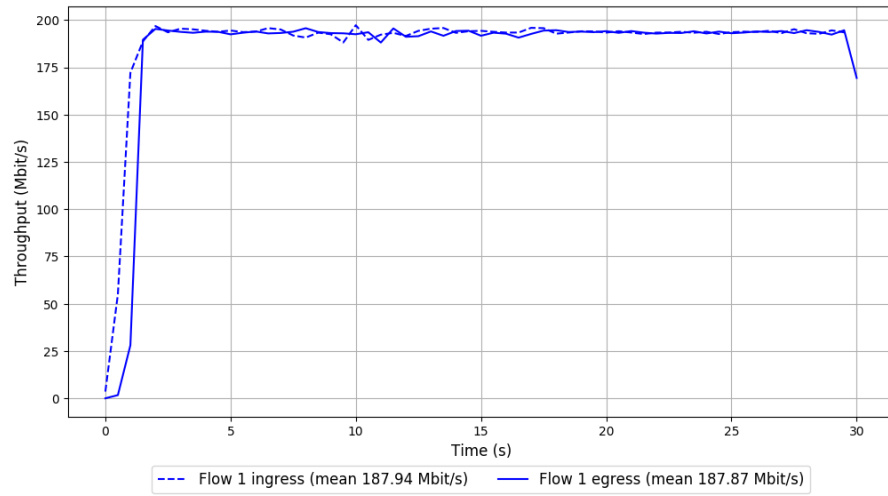


Run 4: Statistics of TCP Vegas

Start at: 2018-07-05 00:26:02
End at: 2018-07-05 00:26:32
Local clock offset: -0.28 ms
Remote clock offset: -1.265 ms

Below is generated by plot.py at 2018-07-05 04:46:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 187.87 Mbit/s
95th percentile per-packet one-way delay: 72.845 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 187.87 Mbit/s
95th percentile per-packet one-way delay: 72.845 ms
Loss rate: 0.43%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-07-05 00:48:21

End at: 2018-07-05 00:48:51

Local clock offset: -0.291 ms

Remote clock offset: 0.077 ms

Below is generated by plot.py at 2018-07-05 04:46:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.07 Mbit/s

95th percentile per-packet one-way delay: 62.441 ms

Loss rate: 0.42%

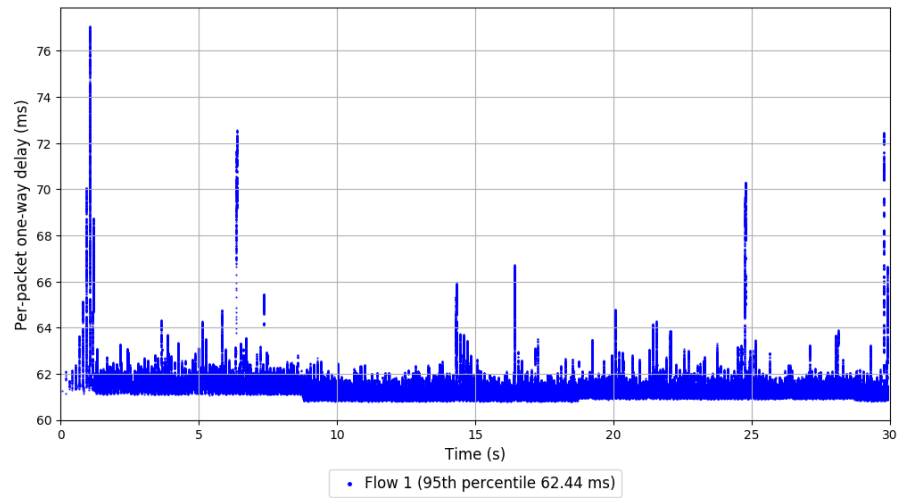
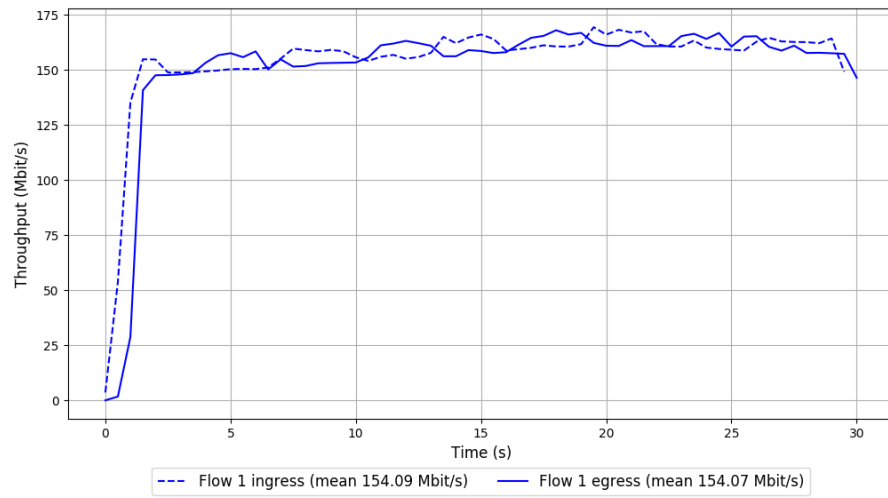
-- Flow 1:

Average throughput: 154.07 Mbit/s

95th percentile per-packet one-way delay: 62.441 ms

Loss rate: 0.42%

Run 5: Report of TCP Vegas — Data Link

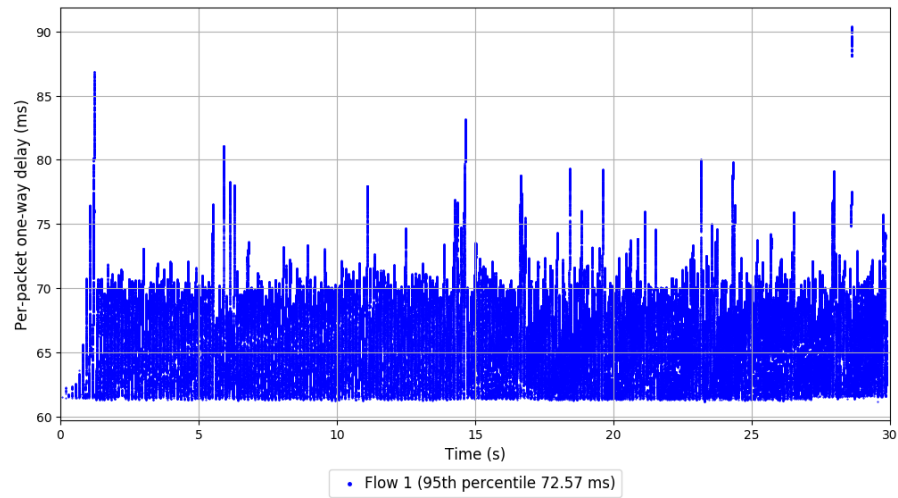
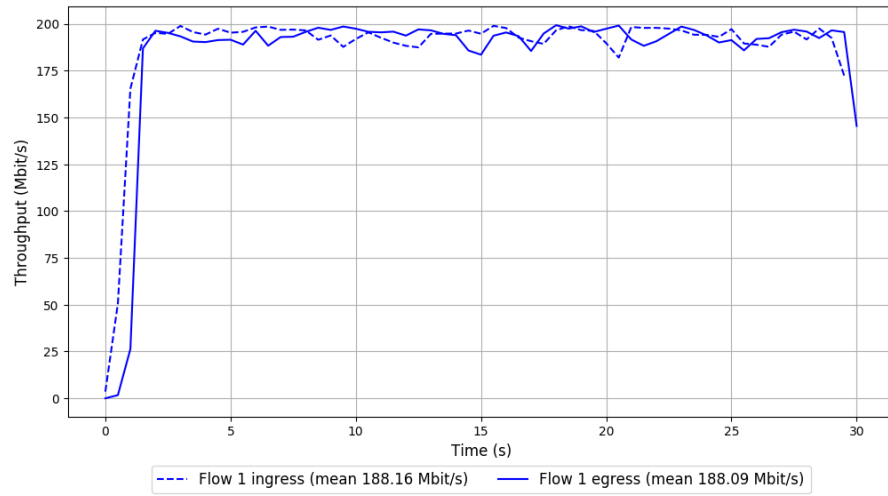


Run 6: Statistics of TCP Vegas

Start at: 2018-07-05 01:10:43
End at: 2018-07-05 01:11:13
Local clock offset: -0.272 ms
Remote clock offset: -0.207 ms

Below is generated by plot.py at 2018-07-05 04:46:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 188.09 Mbit/s
95th percentile per-packet one-way delay: 72.570 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 188.09 Mbit/s
95th percentile per-packet one-way delay: 72.570 ms
Loss rate: 0.43%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-05 01:33:06

End at: 2018-07-05 01:33:36

Local clock offset: -0.373 ms

Remote clock offset: 0.351 ms

Below is generated by plot.py at 2018-07-05 04:47:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.65 Mbit/s

95th percentile per-packet one-way delay: 72.315 ms

Loss rate: 0.45%

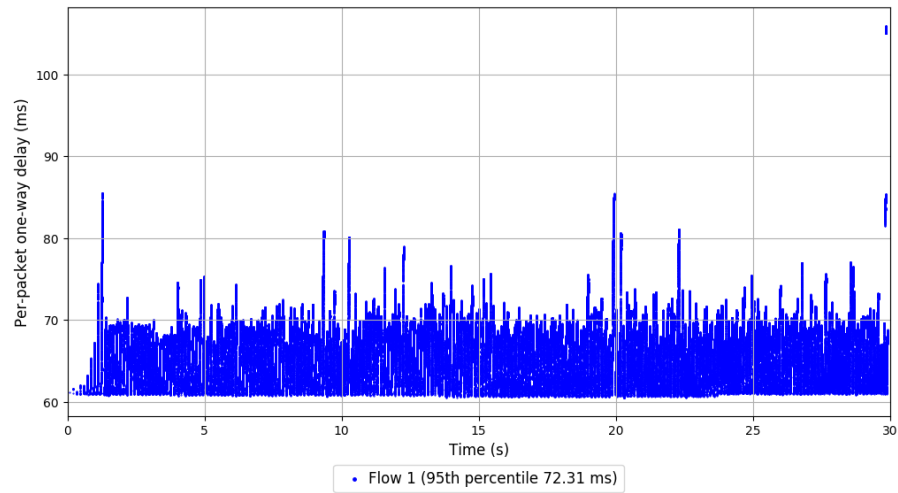
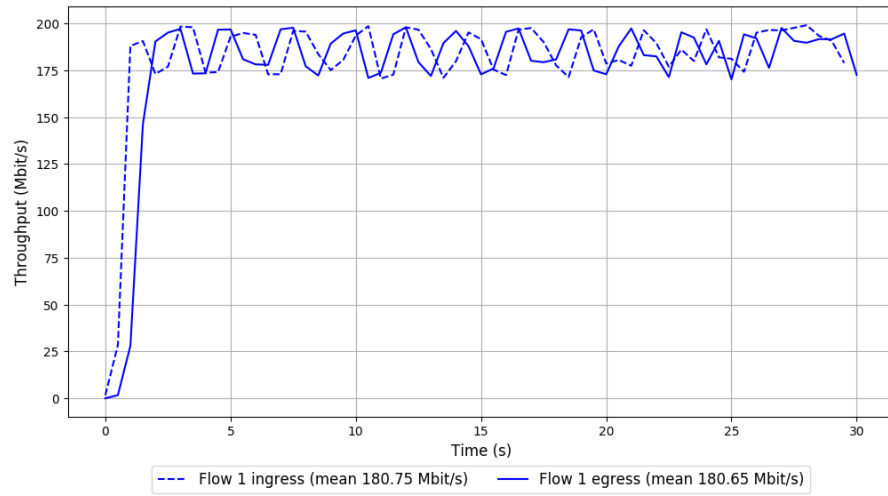
-- Flow 1:

Average throughput: 180.65 Mbit/s

95th percentile per-packet one-way delay: 72.315 ms

Loss rate: 0.45%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-05 01:55:39

End at: 2018-07-05 01:56:09

Local clock offset: -0.358 ms

Remote clock offset: 0.342 ms

Below is generated by plot.py at 2018-07-05 04:47:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.40 Mbit/s

95th percentile per-packet one-way delay: 62.329 ms

Loss rate: 0.46%

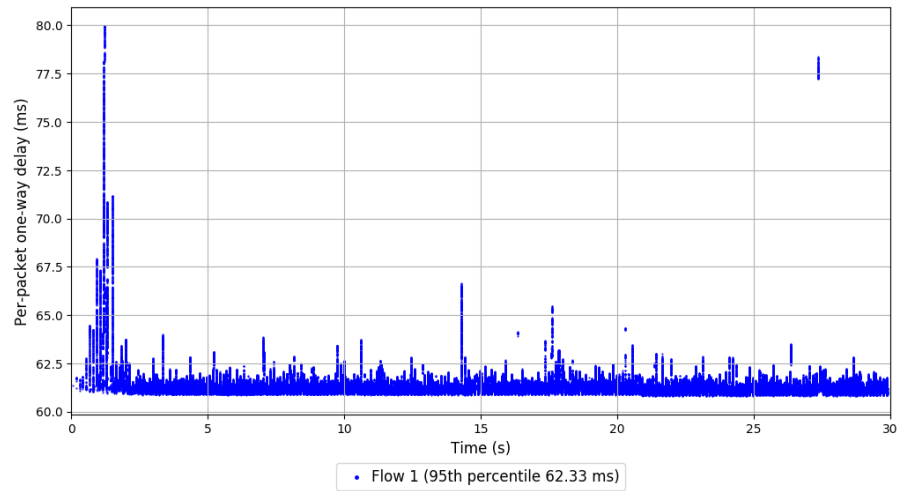
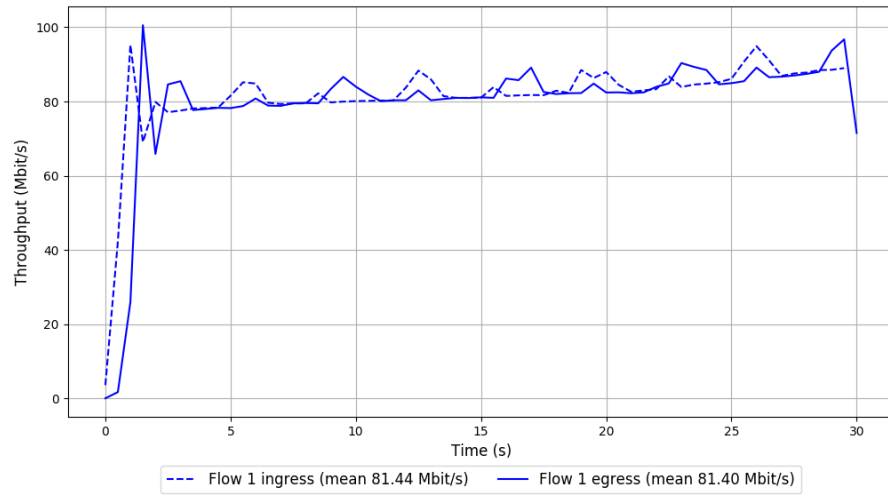
-- Flow 1:

Average throughput: 81.40 Mbit/s

95th percentile per-packet one-way delay: 62.329 ms

Loss rate: 0.46%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-05 02:17:51

End at: 2018-07-05 02:18:21

Local clock offset: -0.414 ms

Remote clock offset: 0.368 ms

Below is generated by plot.py at 2018-07-05 04:48:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.14 Mbit/s

95th percentile per-packet one-way delay: 73.357 ms

Loss rate: 0.48%

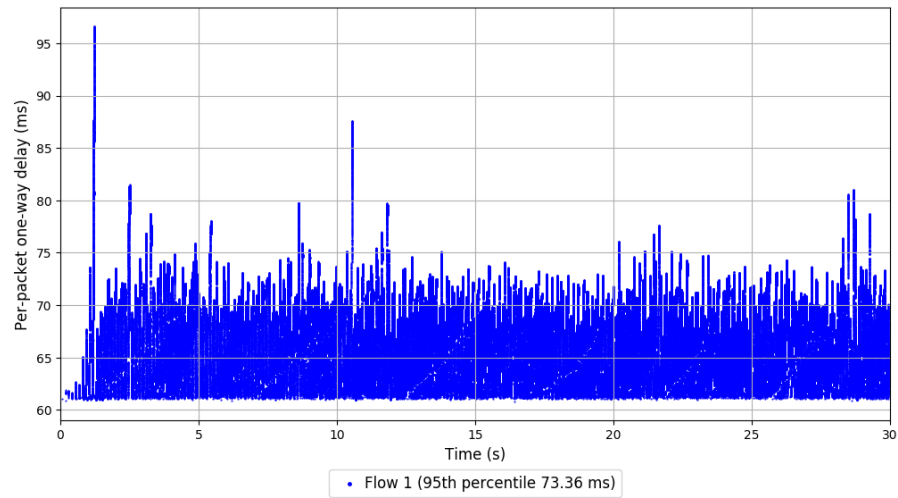
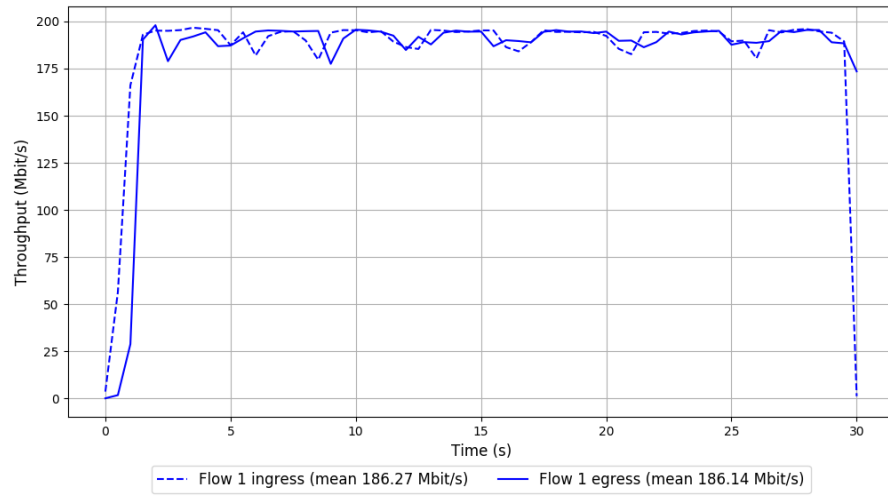
-- Flow 1:

Average throughput: 186.14 Mbit/s

95th percentile per-packet one-way delay: 73.357 ms

Loss rate: 0.48%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-05 02:39:49

End at: 2018-07-05 02:40:19

Local clock offset: -0.407 ms

Remote clock offset: 0.474 ms

Below is generated by plot.py at 2018-07-05 04:49:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.09 Mbit/s

95th percentile per-packet one-way delay: 73.860 ms

Loss rate: 0.48%

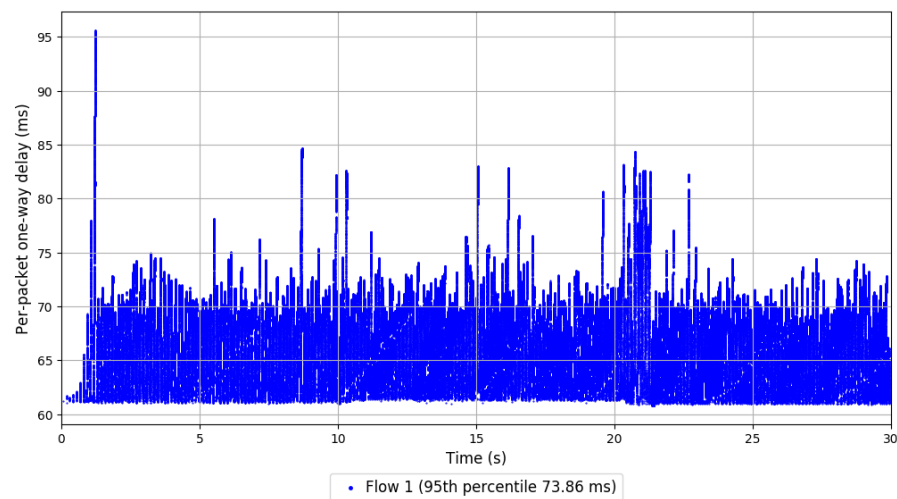
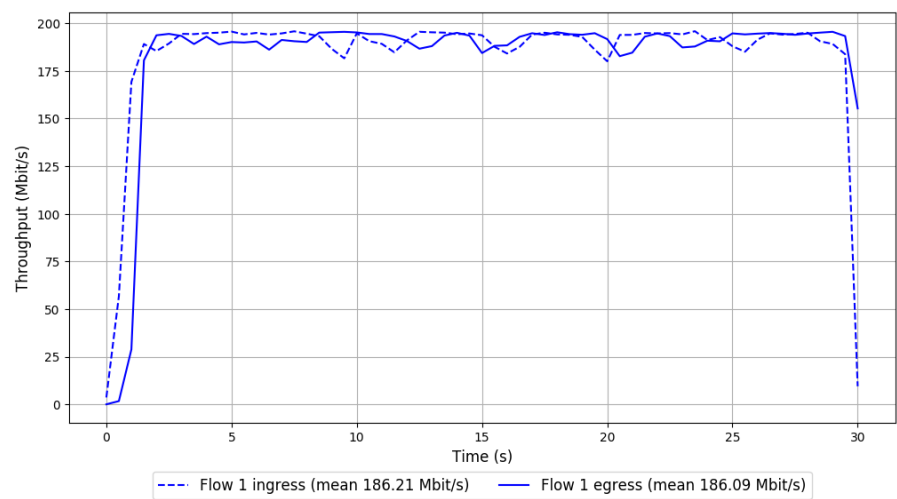
-- Flow 1:

Average throughput: 186.09 Mbit/s

95th percentile per-packet one-way delay: 73.860 ms

Loss rate: 0.48%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-07-04 23:13:56

End at: 2018-07-04 23:14:26

Local clock offset: -0.173 ms

Remote clock offset: 1.065 ms

Below is generated by plot.py at 2018-07-05 04:51:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 270.04 Mbit/s

95th percentile per-packet one-way delay: 102.775 ms

Loss rate: 0.74%

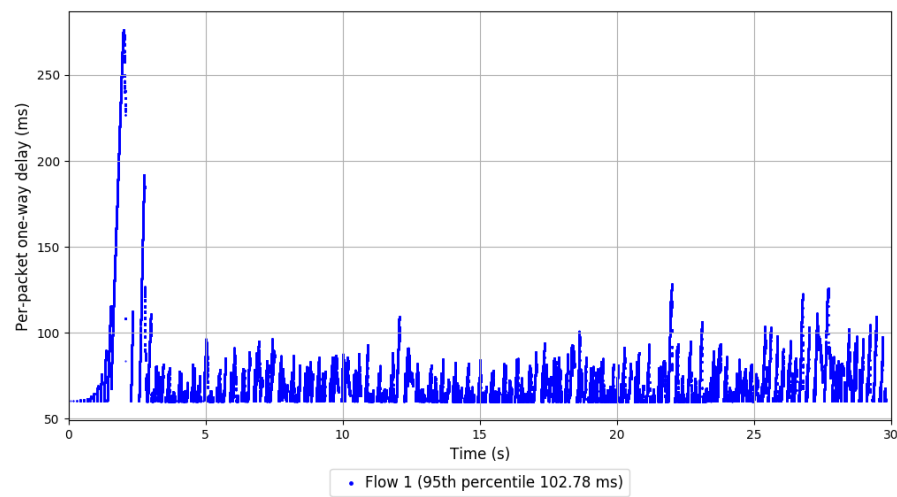
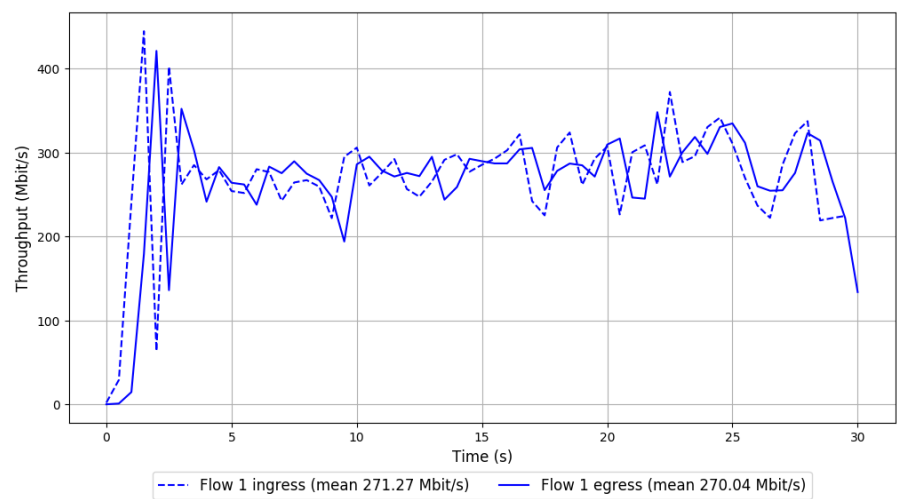
-- Flow 1:

Average throughput: 270.04 Mbit/s

95th percentile per-packet one-way delay: 102.775 ms

Loss rate: 0.74%

Run 1: Report of Verus — Data Link

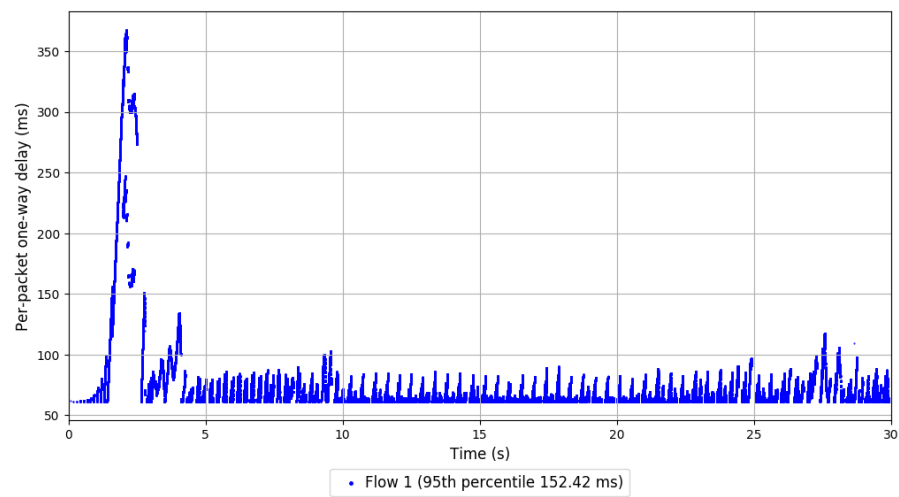
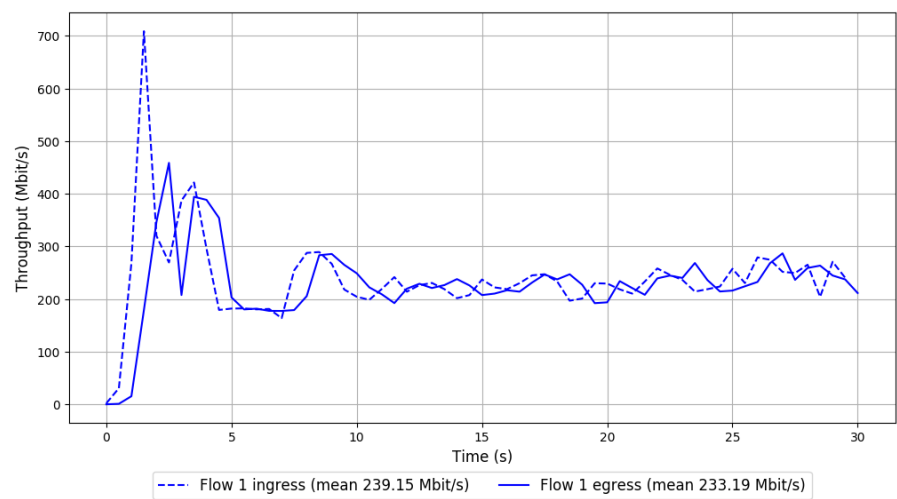


Run 2: Statistics of Verus

Start at: 2018-07-04 23:36:18
End at: 2018-07-04 23:36:48
Local clock offset: -0.215 ms
Remote clock offset: -0.197 ms

Below is generated by plot.py at 2018-07-05 04:51:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 233.19 Mbit/s
95th percentile per-packet one-way delay: 152.420 ms
Loss rate: 2.79%
-- Flow 1:
Average throughput: 233.19 Mbit/s
95th percentile per-packet one-way delay: 152.420 ms
Loss rate: 2.79%

Run 2: Report of Verus — Data Link

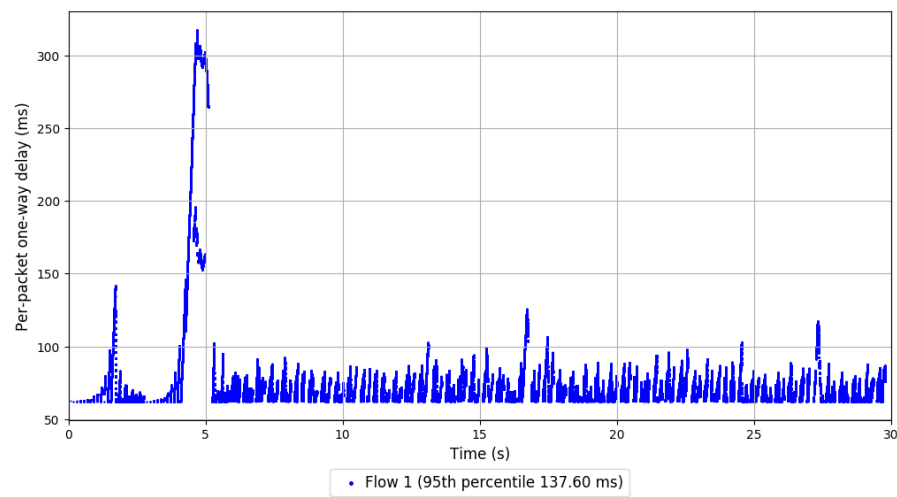
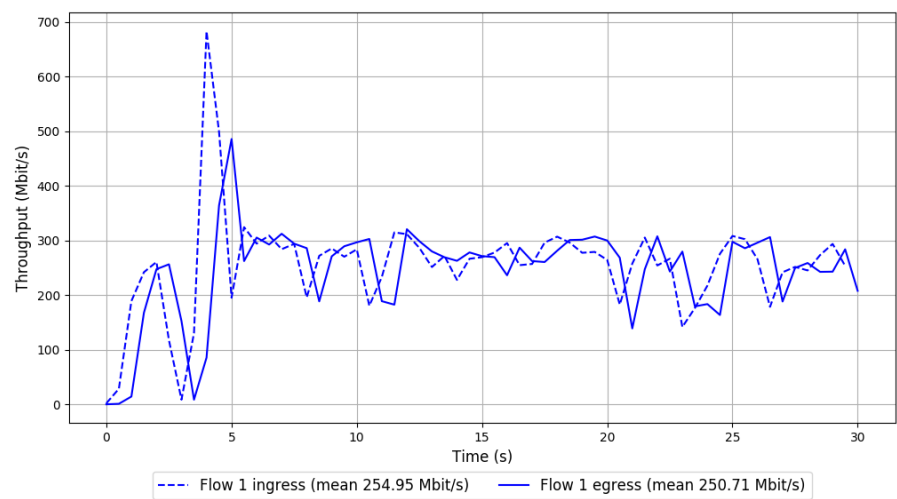


Run 3: Statistics of Verus

Start at: 2018-07-04 23:58:44
End at: 2018-07-04 23:59:14
Local clock offset: -0.239 ms
Remote clock offset: -1.298 ms

Below is generated by plot.py at 2018-07-05 04:51:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 250.71 Mbit/s
95th percentile per-packet one-way delay: 137.602 ms
Loss rate: 2.38%
-- Flow 1:
Average throughput: 250.71 Mbit/s
95th percentile per-packet one-way delay: 137.602 ms
Loss rate: 2.38%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-07-05 00:20:48

End at: 2018-07-05 00:21:18

Local clock offset: -0.253 ms

Remote clock offset: 1.302 ms

Below is generated by plot.py at 2018-07-05 04:51:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 244.67 Mbit/s

95th percentile per-packet one-way delay: 142.622 ms

Loss rate: 1.89%

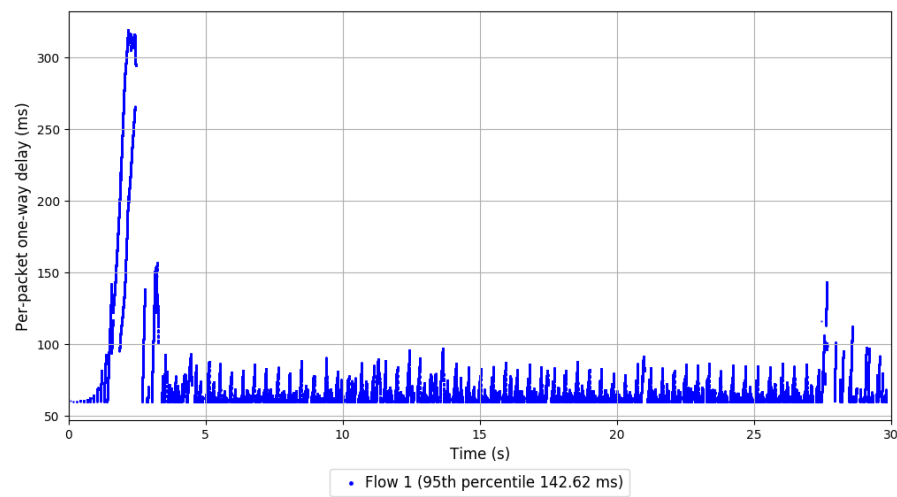
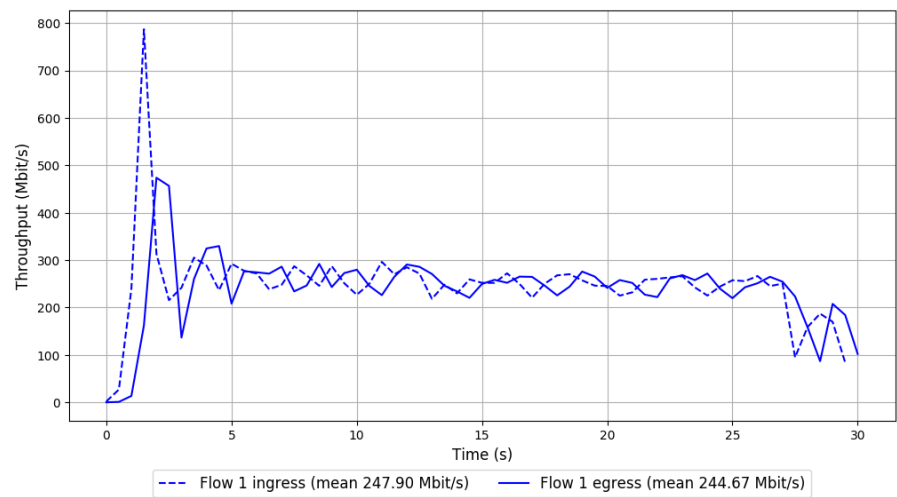
-- Flow 1:

Average throughput: 244.67 Mbit/s

95th percentile per-packet one-way delay: 142.622 ms

Loss rate: 1.89%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-07-05 00:43:09

End at: 2018-07-05 00:43:39

Local clock offset: -0.292 ms

Remote clock offset: 1.276 ms

Below is generated by plot.py at 2018-07-05 04:52:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 246.74 Mbit/s

95th percentile per-packet one-way delay: 109.595 ms

Loss rate: 0.79%

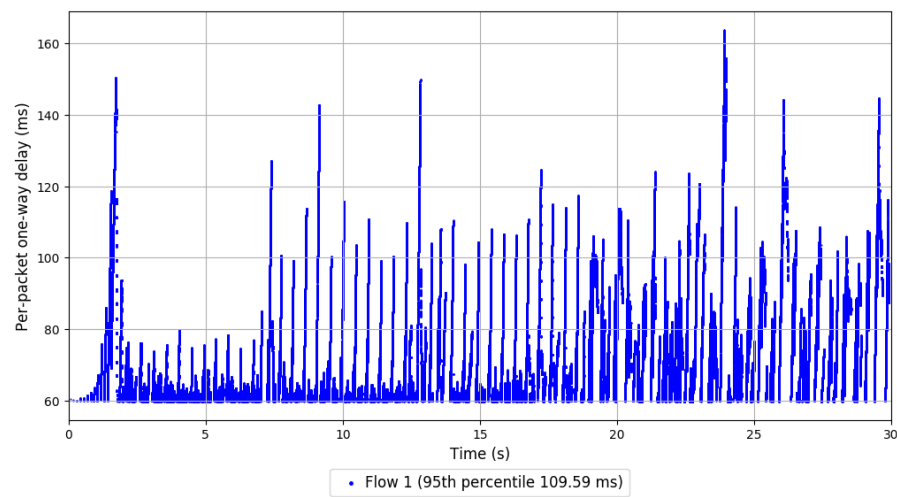
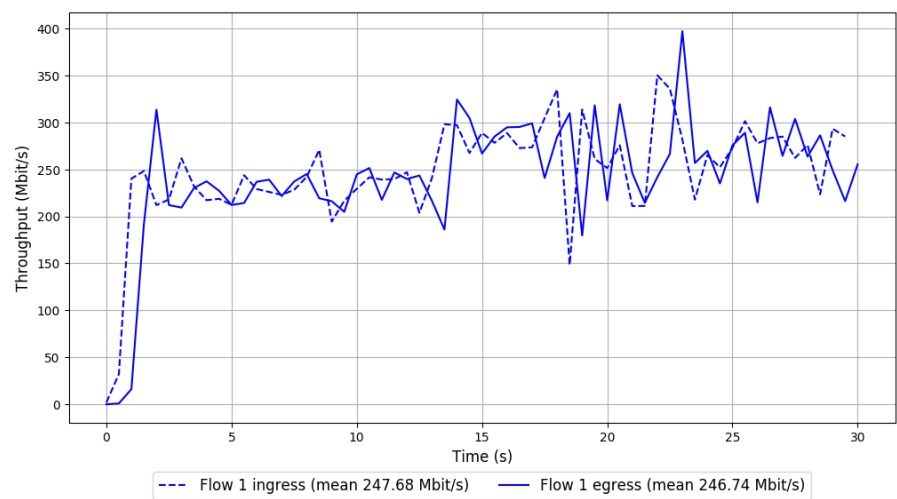
-- Flow 1:

Average throughput: 246.74 Mbit/s

95th percentile per-packet one-way delay: 109.595 ms

Loss rate: 0.79%

Run 5: Report of Verus — Data Link

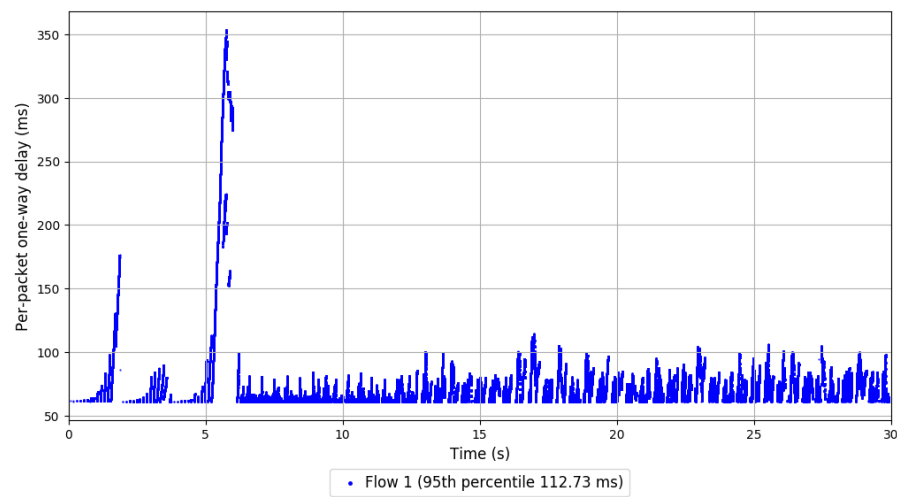
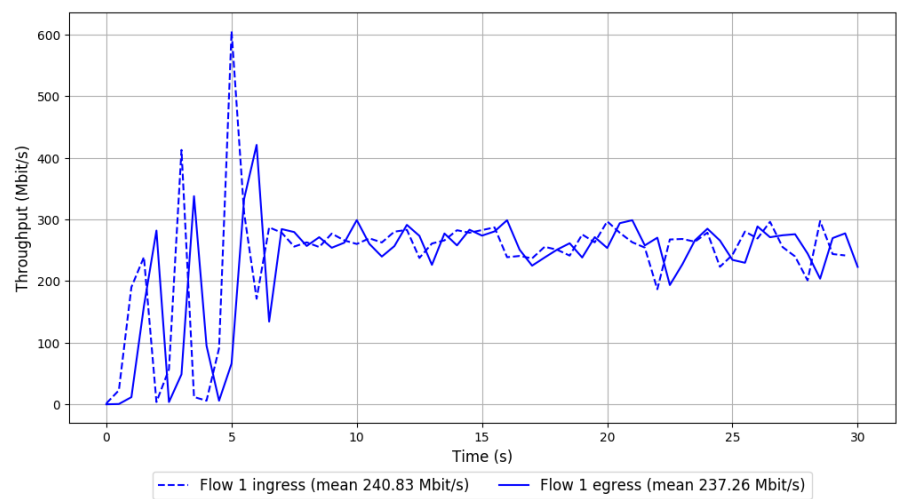


Run 6: Statistics of Verus

Start at: 2018-07-05 01:05:28
End at: 2018-07-05 01:05:58
Local clock offset: -0.307 ms
Remote clock offset: -0.104 ms

Below is generated by plot.py at 2018-07-05 04:52:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 237.26 Mbit/s
95th percentile per-packet one-way delay: 112.730 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 237.26 Mbit/s
95th percentile per-packet one-way delay: 112.730 ms
Loss rate: 1.67%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-07-05 01:27:53

End at: 2018-07-05 01:28:23

Local clock offset: -0.358 ms

Remote clock offset: 0.329 ms

Below is generated by plot.py at 2018-07-05 04:53:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 250.31 Mbit/s

95th percentile per-packet one-way delay: 98.867 ms

Loss rate: 1.96%

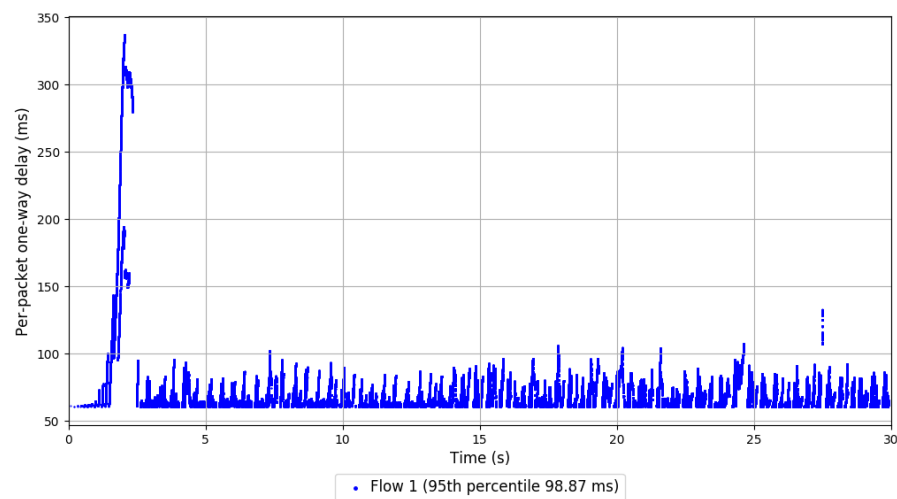
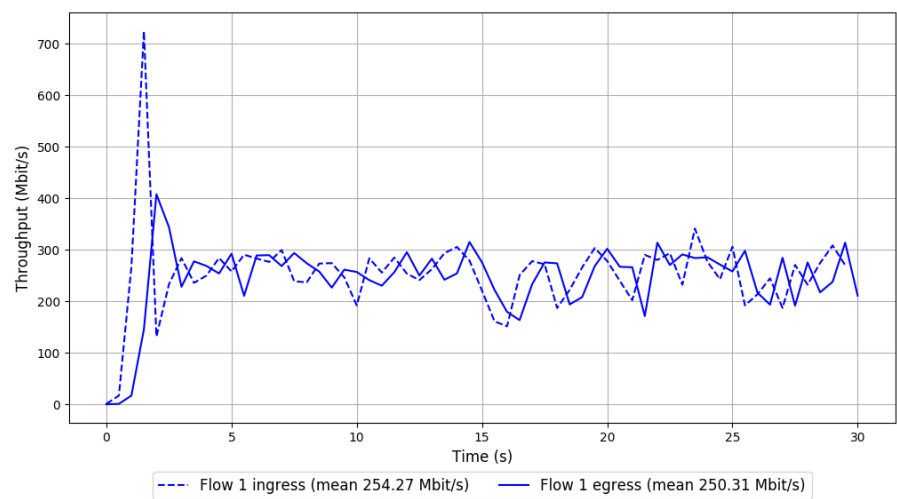
-- Flow 1:

Average throughput: 250.31 Mbit/s

95th percentile per-packet one-way delay: 98.867 ms

Loss rate: 1.96%

Run 7: Report of Verus — Data Link

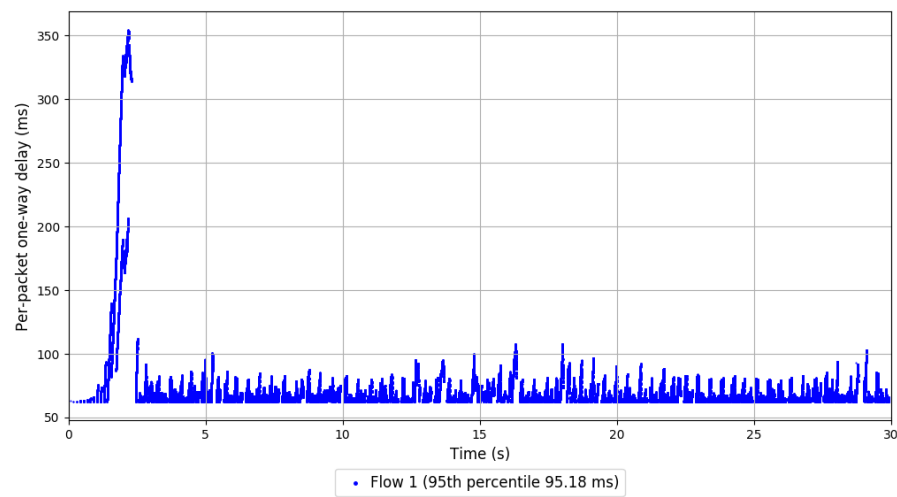
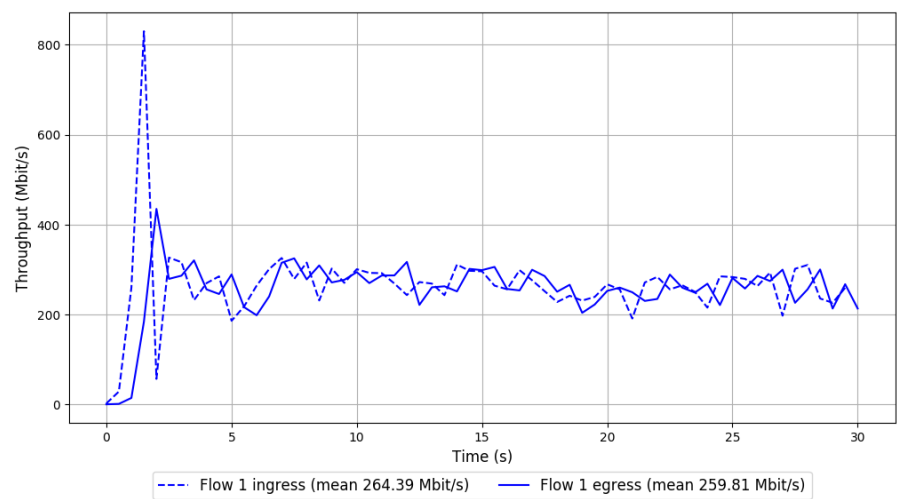


Run 8: Statistics of Verus

Start at: 2018-07-05 01:50:23
End at: 2018-07-05 01:50:53
Local clock offset: -0.354 ms
Remote clock offset: -1.172 ms

Below is generated by plot.py at 2018-07-05 04:55:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 259.81 Mbit/s
95th percentile per-packet one-way delay: 95.184 ms
Loss rate: 2.13%
-- Flow 1:
Average throughput: 259.81 Mbit/s
95th percentile per-packet one-way delay: 95.184 ms
Loss rate: 2.13%

Run 8: Report of Verus — Data Link

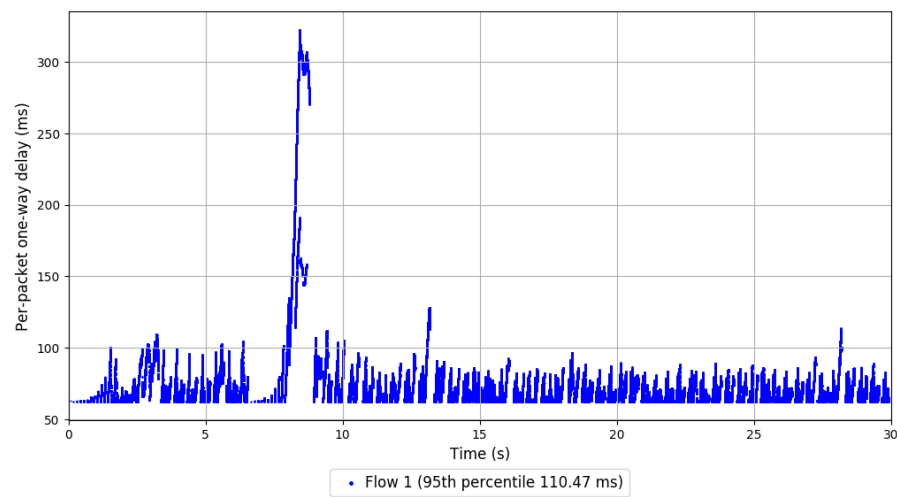
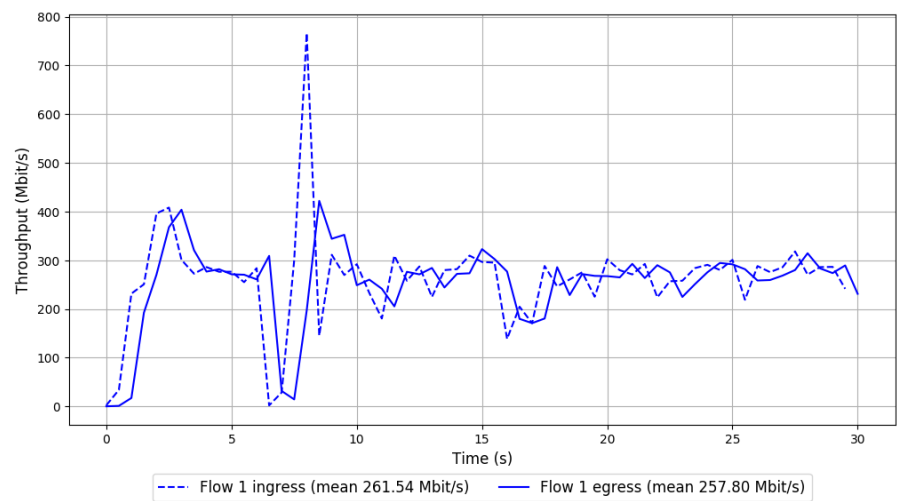


Run 9: Statistics of Verus

Start at: 2018-07-05 02:12:36
End at: 2018-07-05 02:13:06
Local clock offset: -0.382 ms
Remote clock offset: -0.969 ms

Below is generated by plot.py at 2018-07-05 04:56:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 257.80 Mbit/s
95th percentile per-packet one-way delay: 110.468 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 257.80 Mbit/s
95th percentile per-packet one-way delay: 110.468 ms
Loss rate: 1.70%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-07-05 02:34:37

End at: 2018-07-05 02:35:07

Local clock offset: -0.393 ms

Remote clock offset: 0.394 ms

Below is generated by plot.py at 2018-07-05 04:56:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.55 Mbit/s

95th percentile per-packet one-way delay: 124.122 ms

Loss rate: 2.35%

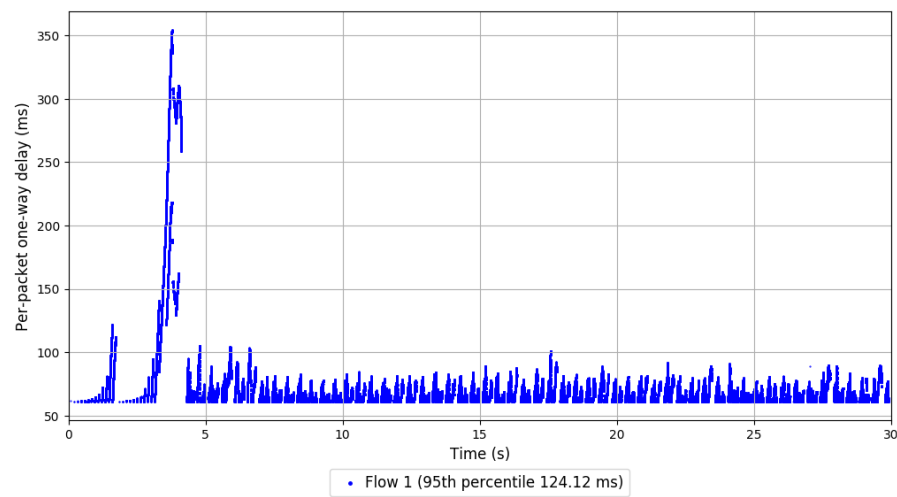
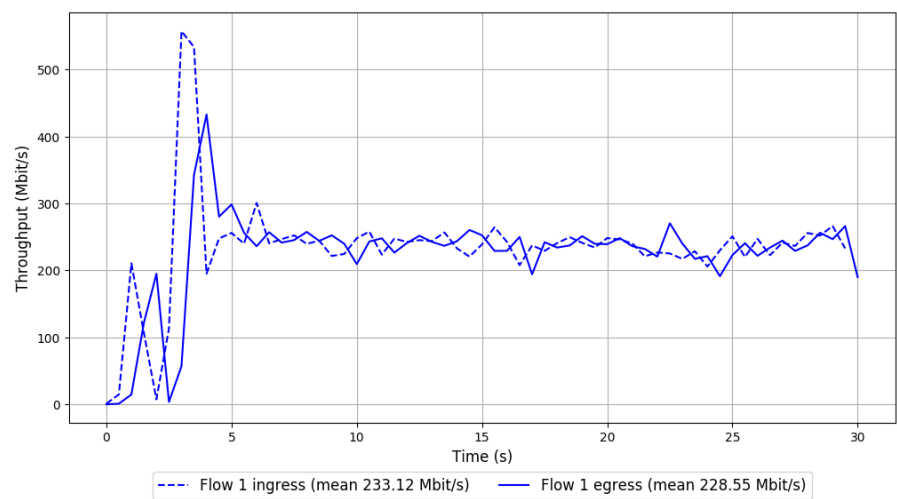
-- Flow 1:

Average throughput: 228.55 Mbit/s

95th percentile per-packet one-way delay: 124.122 ms

Loss rate: 2.35%

Run 10: Report of Verus — Data Link

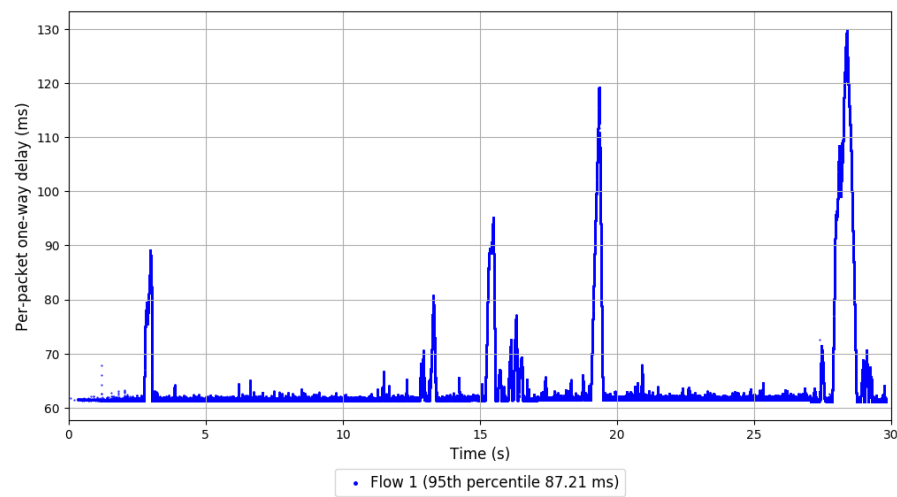
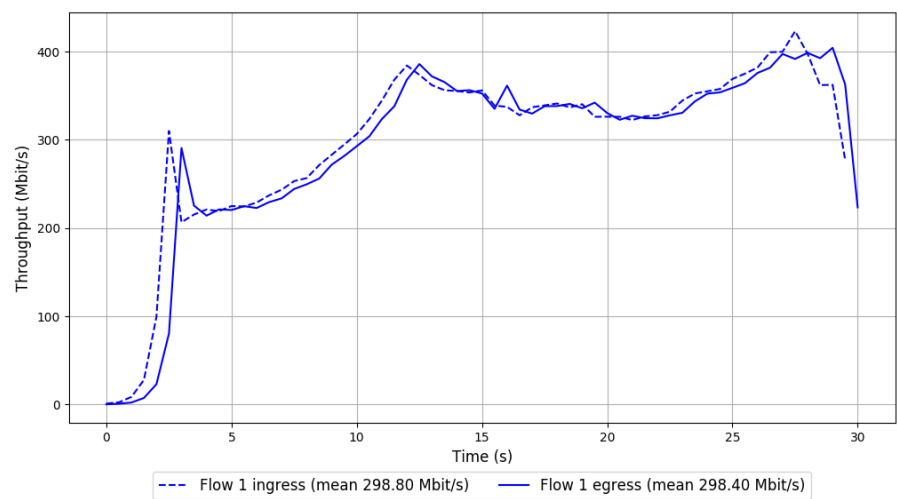


Run 1: Statistics of PCC-Vivace

Start at: 2018-07-04 23:10:02
End at: 2018-07-04 23:10:32
Local clock offset: -0.216 ms
Remote clock offset: -0.162 ms

Below is generated by plot.py at 2018-07-05 04:58:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 298.40 Mbit/s
95th percentile per-packet one-way delay: 87.206 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 298.40 Mbit/s
95th percentile per-packet one-way delay: 87.206 ms
Loss rate: 0.55%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-07-04 23:32:21

End at: 2018-07-04 23:32:51

Local clock offset: -0.163 ms

Remote clock offset: 0.051 ms

Below is generated by plot.py at 2018-07-05 04:58:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 318.43 Mbit/s

95th percentile per-packet one-way delay: 203.651 ms

Loss rate: 0.92%

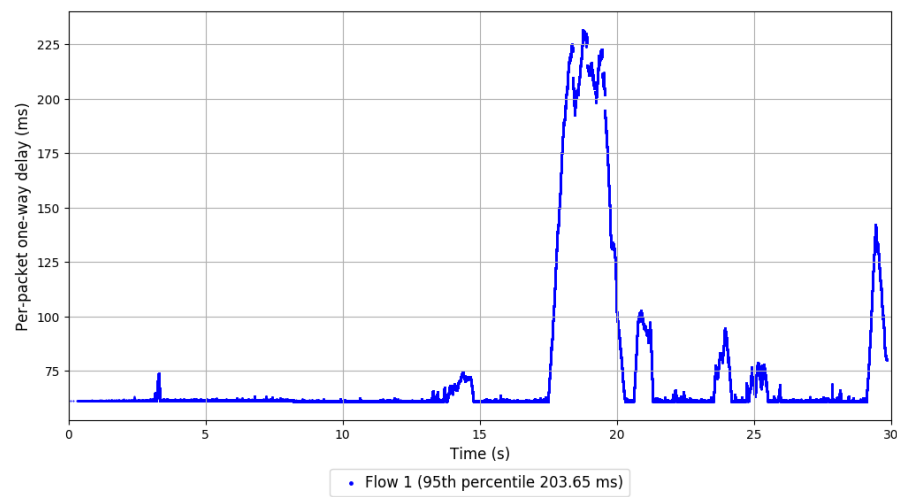
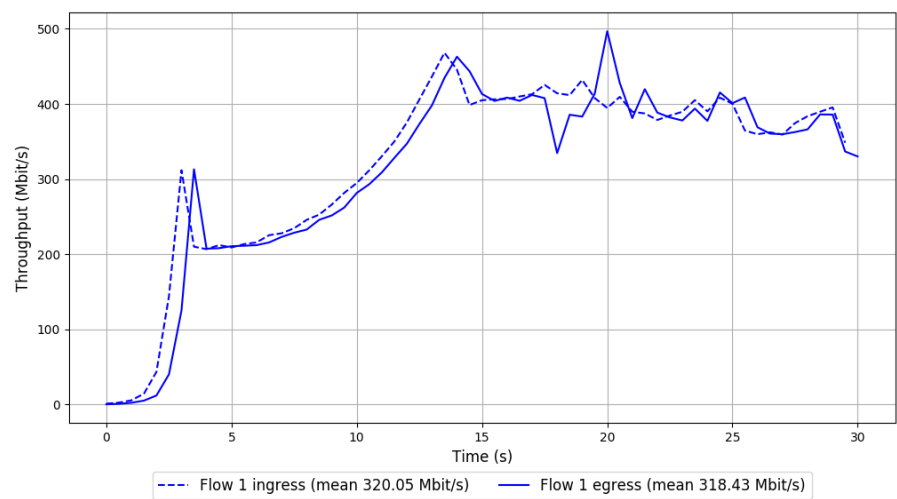
-- Flow 1:

Average throughput: 318.43 Mbit/s

95th percentile per-packet one-way delay: 203.651 ms

Loss rate: 0.92%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-04 23:54:49

End at: 2018-07-04 23:55:19

Local clock offset: -0.22 ms

Remote clock offset: 1.137 ms

Below is generated by plot.py at 2018-07-05 04:58:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 311.22 Mbit/s

95th percentile per-packet one-way delay: 68.619 ms

Loss rate: 0.45%

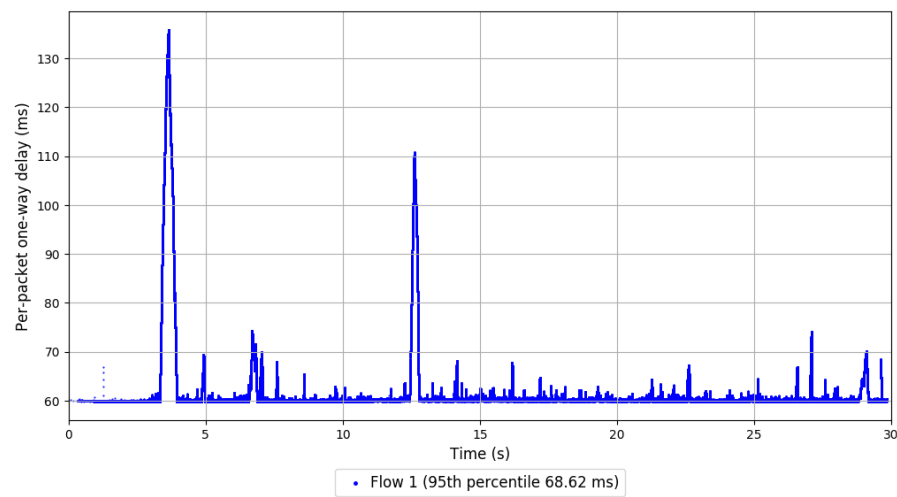
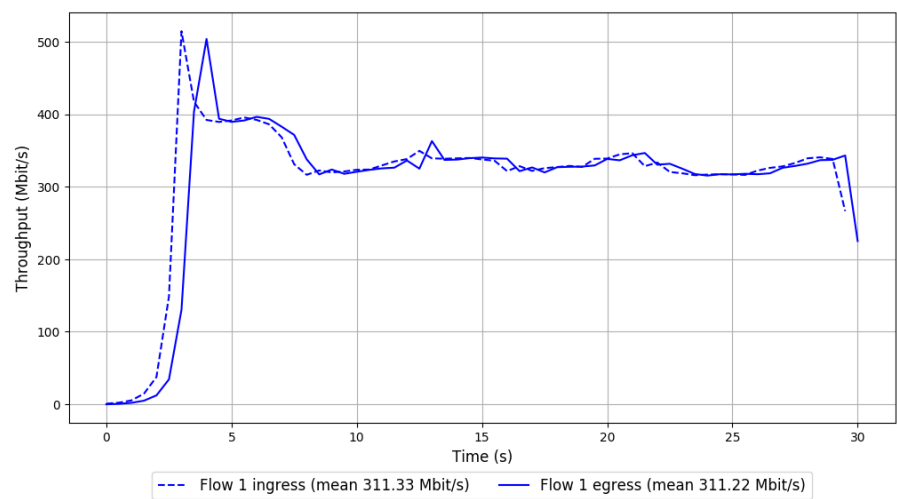
-- Flow 1:

Average throughput: 311.22 Mbit/s

95th percentile per-packet one-way delay: 68.619 ms

Loss rate: 0.45%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-05 00:17:00

End at: 2018-07-05 00:17:30

Local clock offset: -0.269 ms

Remote clock offset: 0.165 ms

Below is generated by plot.py at 2018-07-05 04:58:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 238.79 Mbit/s

95th percentile per-packet one-way delay: 90.116 ms

Loss rate: 0.50%

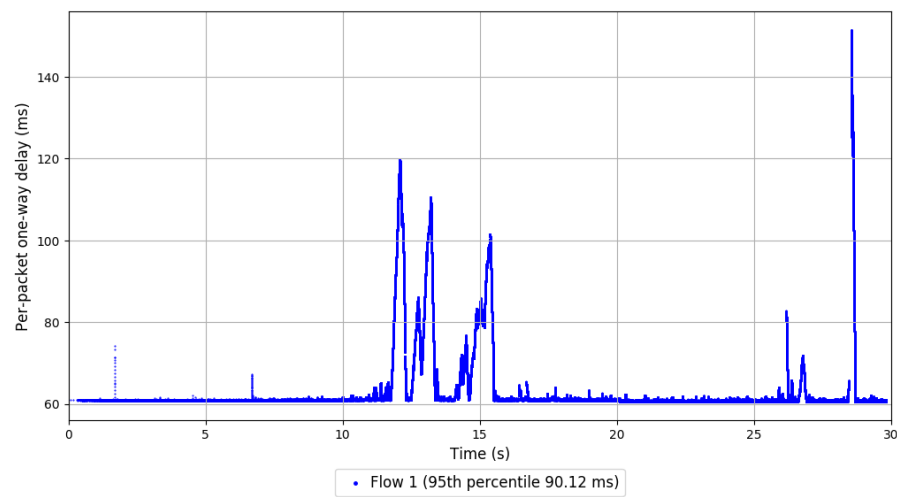
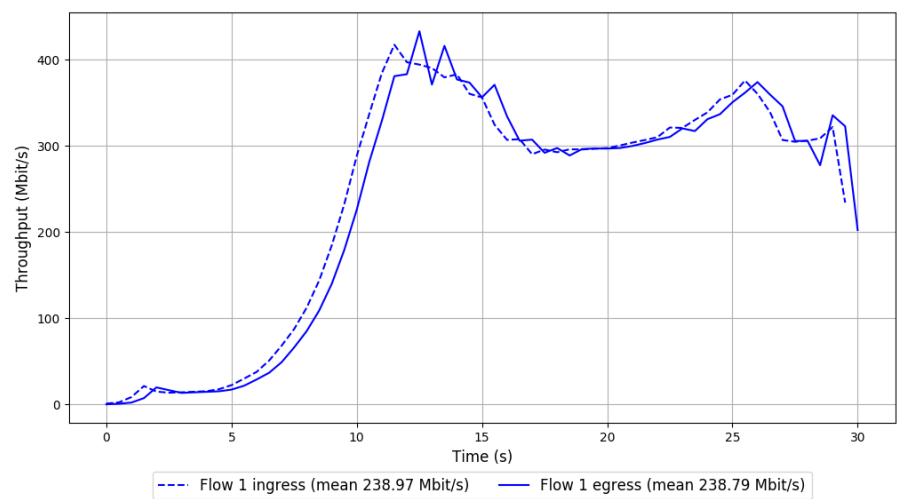
-- Flow 1:

Average throughput: 238.79 Mbit/s

95th percentile per-packet one-way delay: 90.116 ms

Loss rate: 0.50%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-05 00:39:14

End at: 2018-07-05 00:39:44

Local clock offset: -0.28 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-07-05 05:00:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 319.17 Mbit/s

95th percentile per-packet one-way delay: 110.240 ms

Loss rate: 0.42%

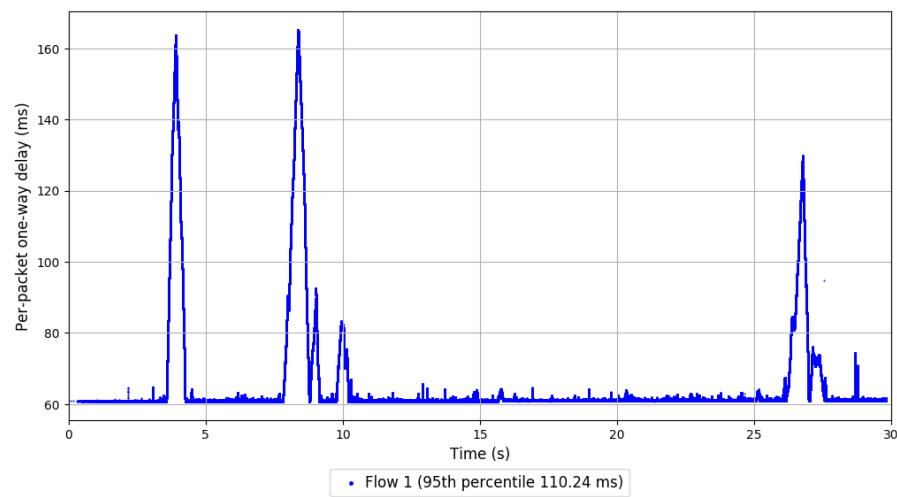
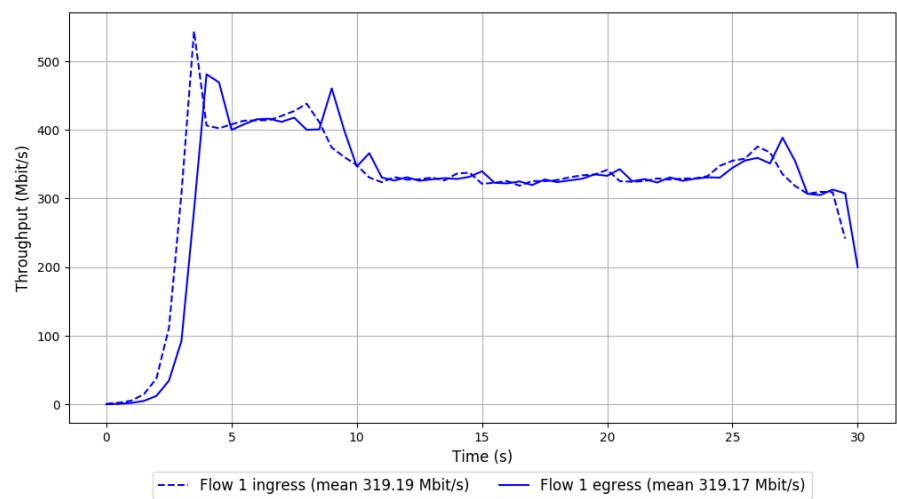
-- Flow 1:

Average throughput: 319.17 Mbit/s

95th percentile per-packet one-way delay: 110.240 ms

Loss rate: 0.42%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-05 01:01:31

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

Local clock offset: -0.242 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-07-05 05:01:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 295.05 Mbit/s

95th percentile per-packet one-way delay: 85.022 ms

Loss rate: 0.45%

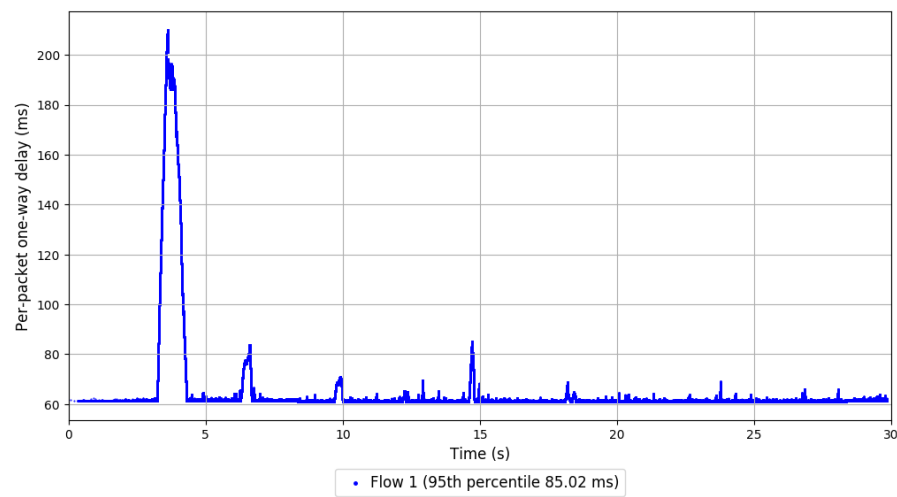
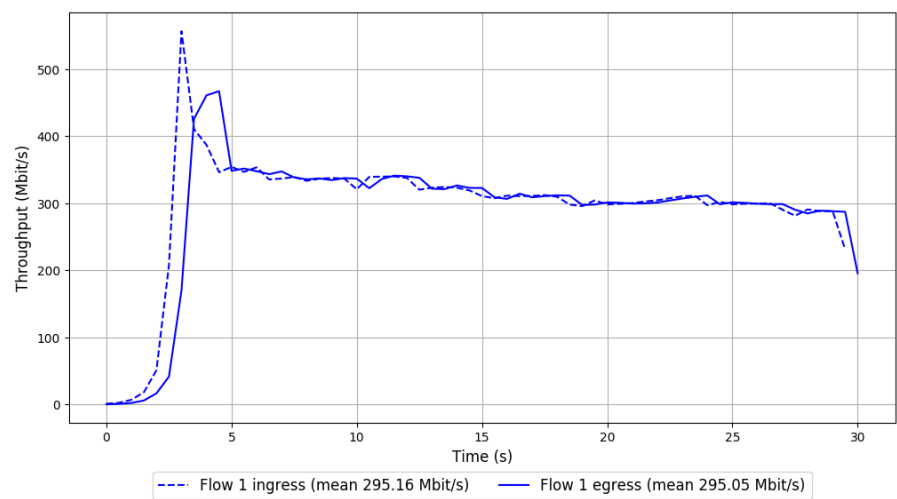
-- Flow 1:

Average throughput: 295.05 Mbit/s

95th percentile per-packet one-way delay: 85.022 ms

Loss rate: 0.45%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-05 01:24:02

End at: 2018-07-05 01:24:32

Local clock offset: -0.341 ms

Remote clock offset: 1.294 ms

Below is generated by plot.py at 2018-07-05 05:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 272.47 Mbit/s

95th percentile per-packet one-way delay: 182.445 ms

Loss rate: 1.02%

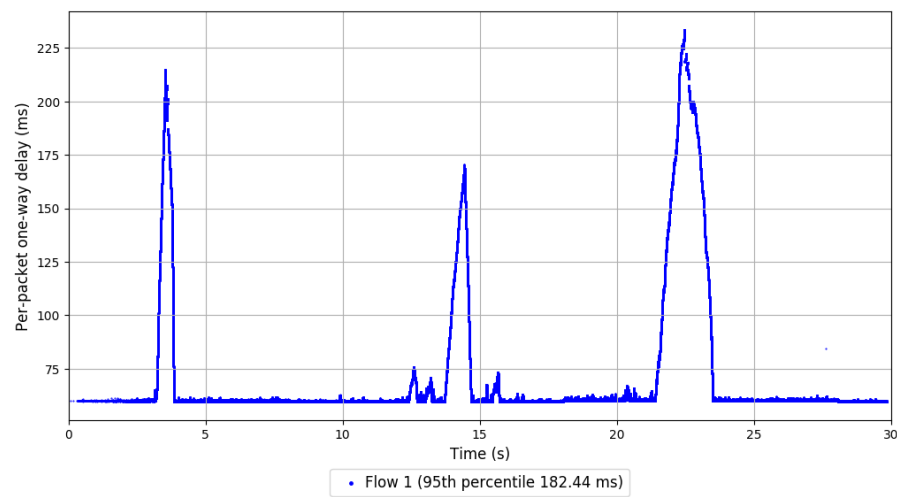
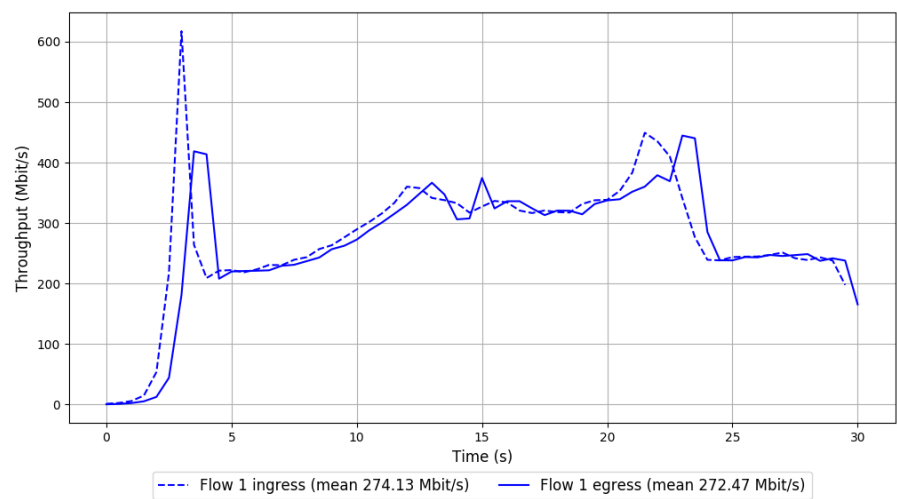
-- Flow 1:

Average throughput: 272.47 Mbit/s

95th percentile per-packet one-way delay: 182.445 ms

Loss rate: 1.02%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-05 01:46:27

End at: 2018-07-05 01:46:57

Local clock offset: -0.343 ms

Remote clock offset: 0.238 ms

Below is generated by plot.py at 2018-07-05 05:01:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 330.10 Mbit/s

95th percentile per-packet one-way delay: 193.558 ms

Loss rate: 0.90%

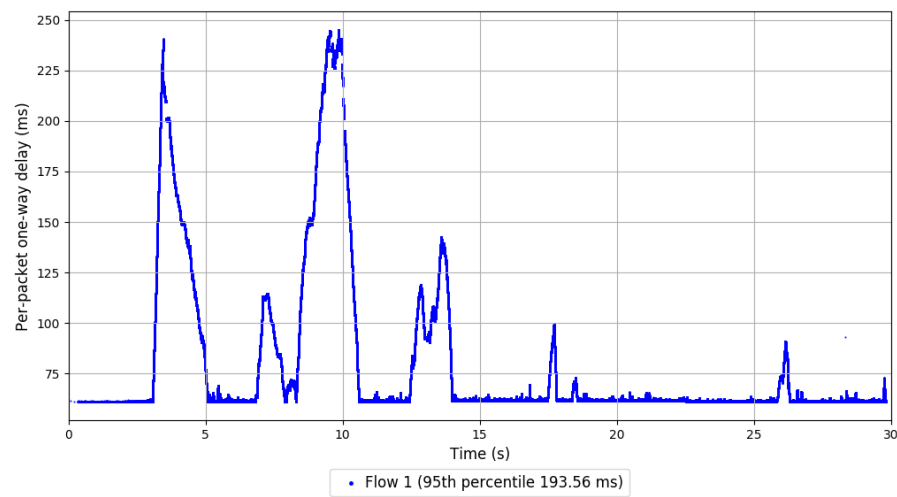
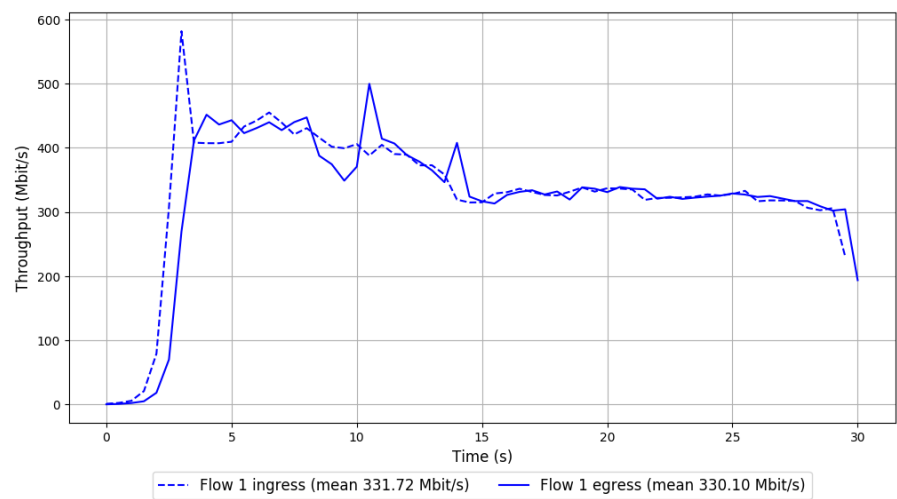
-- Flow 1:

Average throughput: 330.10 Mbit/s

95th percentile per-packet one-way delay: 193.558 ms

Loss rate: 0.90%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-05 02:08:42

End at: 2018-07-05 02:09:12

Local clock offset: -0.405 ms

Remote clock offset: 1.242 ms

Below is generated by plot.py at 2018-07-05 05:01:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 309.59 Mbit/s

95th percentile per-packet one-way delay: 87.929 ms

Loss rate: 0.62%

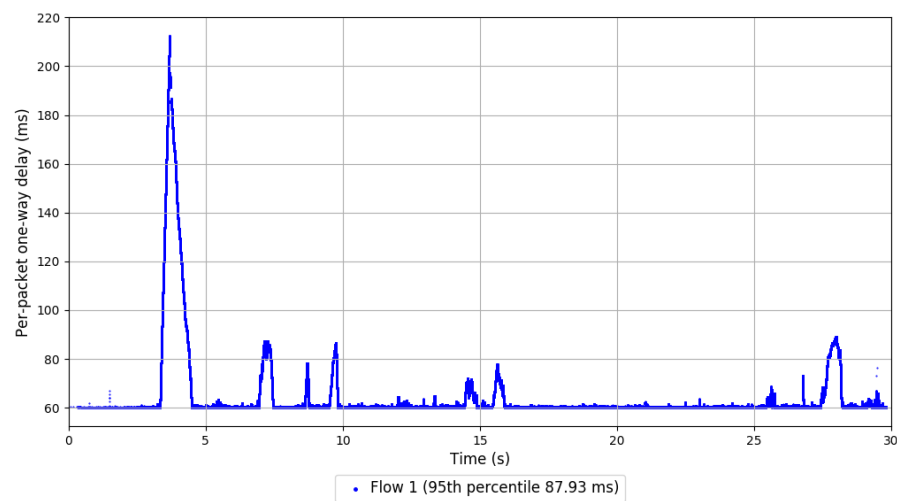
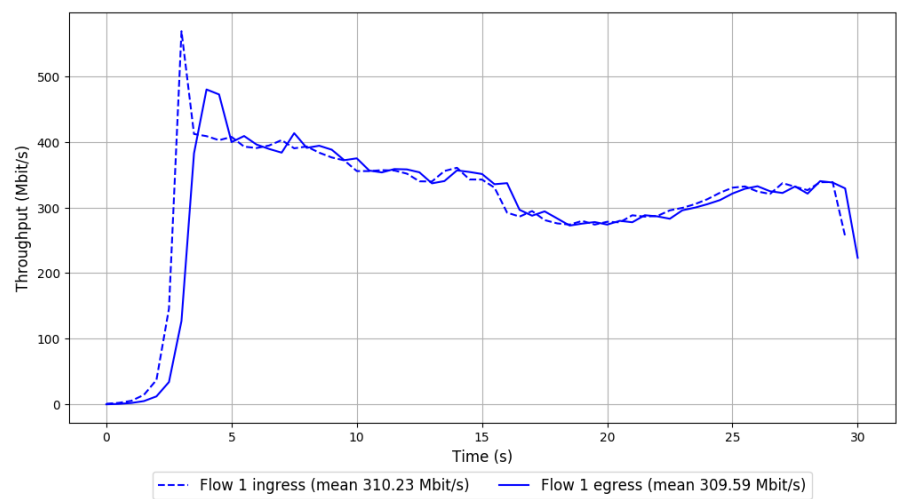
-- Flow 1:

Average throughput: 309.59 Mbit/s

95th percentile per-packet one-way delay: 87.929 ms

Loss rate: 0.62%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-05 02:30:41

End at: 2018-07-05 02:31:11

Local clock offset: -0.405 ms

Remote clock offset: 0.11 ms

Below is generated by plot.py at 2018-07-05 05:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 310.96 Mbit/s

95th percentile per-packet one-way delay: 150.707 ms

Loss rate: 0.61%

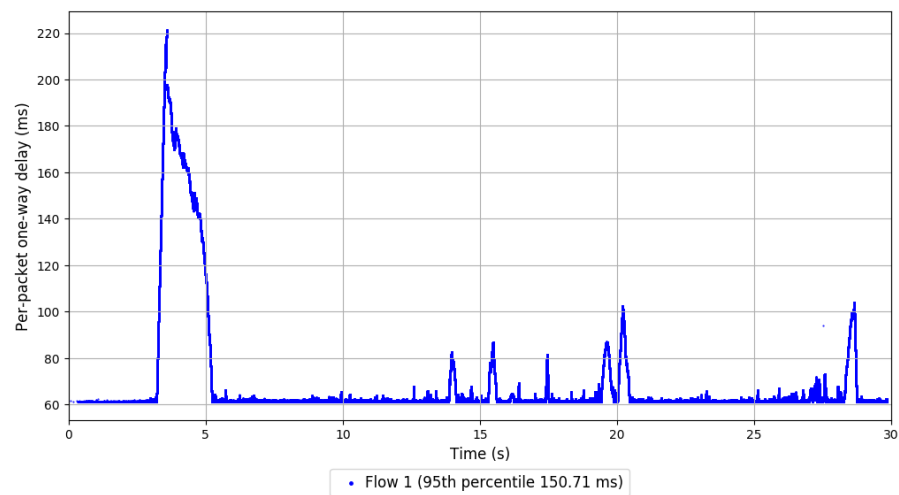
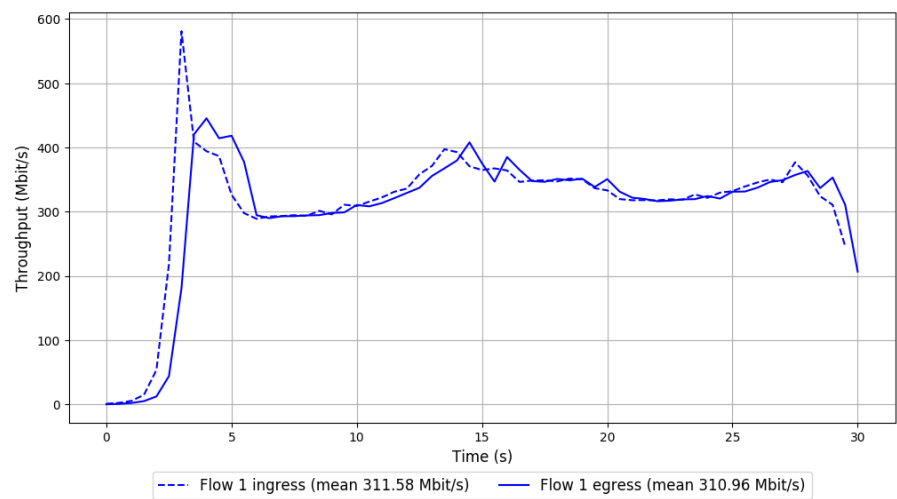
-- Flow 1:

Average throughput: 310.96 Mbit/s

95th percentile per-packet one-way delay: 150.707 ms

Loss rate: 0.61%

Run 10: Report of PCC-Vivace — Data Link

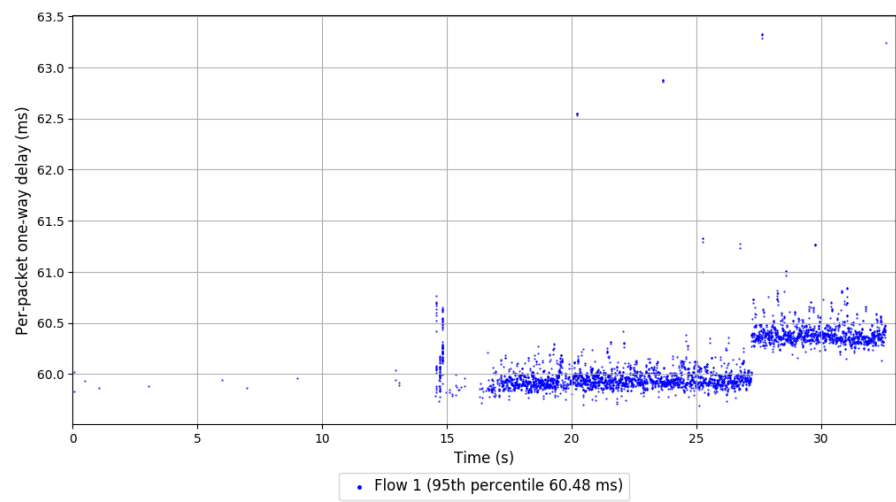
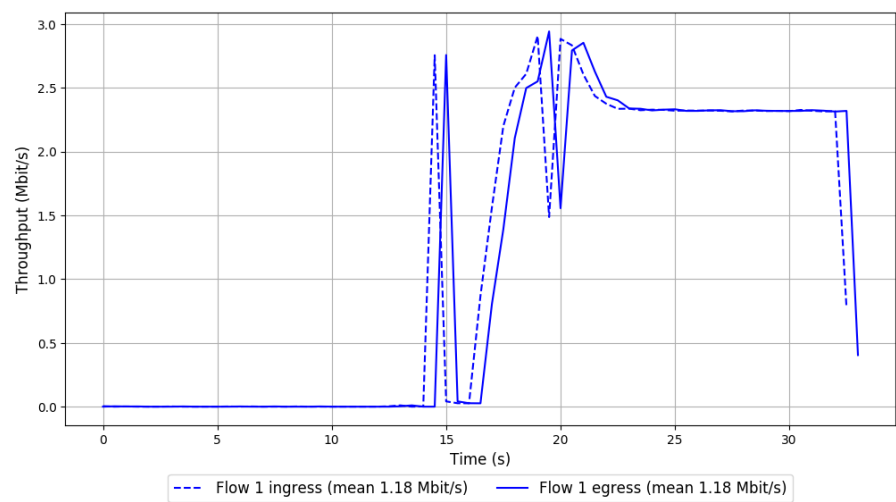


```
Run 1: Statistics of WebRTC media

Start at: 2018-07-04 23:25:55
End at: 2018-07-04 23:26:25
Local clock offset: -0.185 ms
Remote clock offset: 1.315 ms

# Below is generated by plot.py at 2018-07-05 05:01:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.18 Mbit/s
95th percentile per-packet one-way delay: 60.484 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 1.18 Mbit/s
95th percentile per-packet one-way delay: 60.484 ms
Loss rate: 0.88%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-04 23:48:21

End at: 2018-07-04 23:48:51

Local clock offset: -0.237 ms

Remote clock offset: 1.238 ms

Below is generated by plot.py at 2018-07-05 05:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 60.112 ms

Loss rate: 0.42%

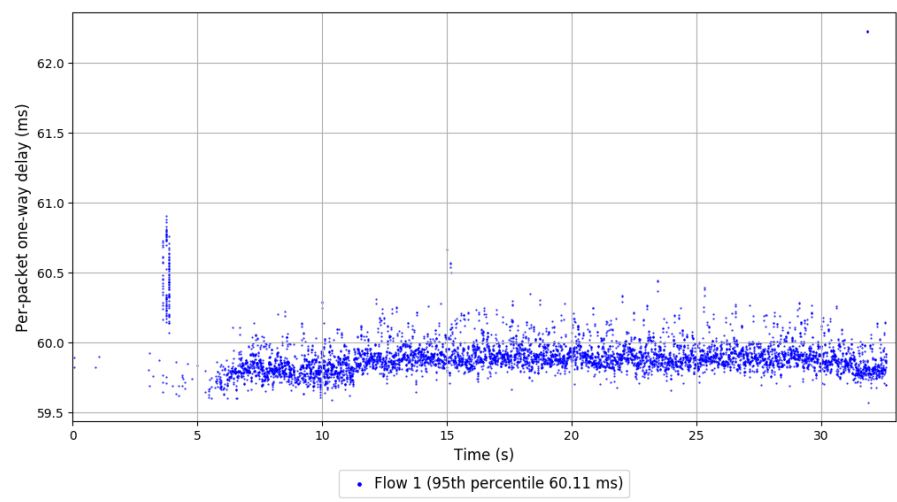
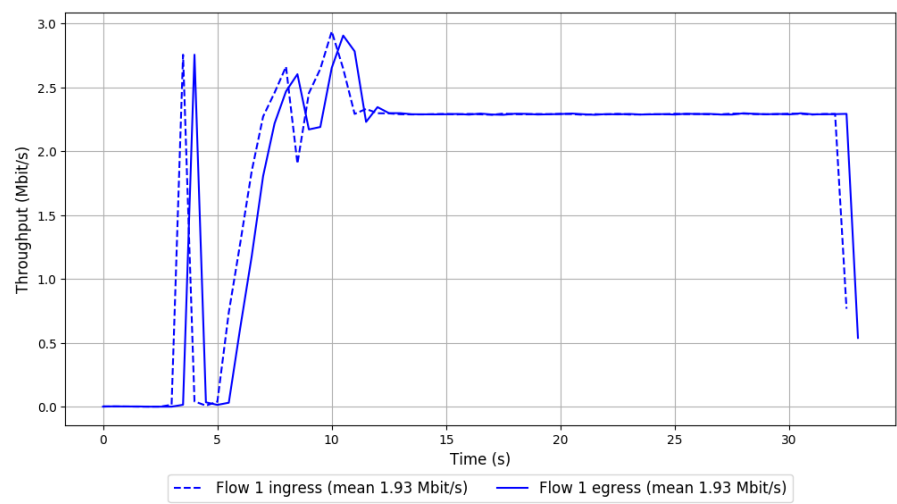
-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 60.112 ms

Loss rate: 0.42%

Run 2: Report of WebRTC media — Data Link

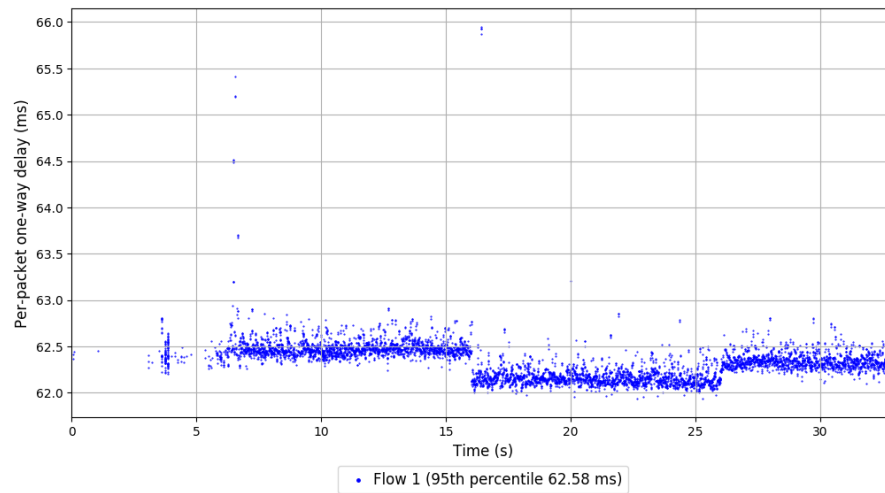
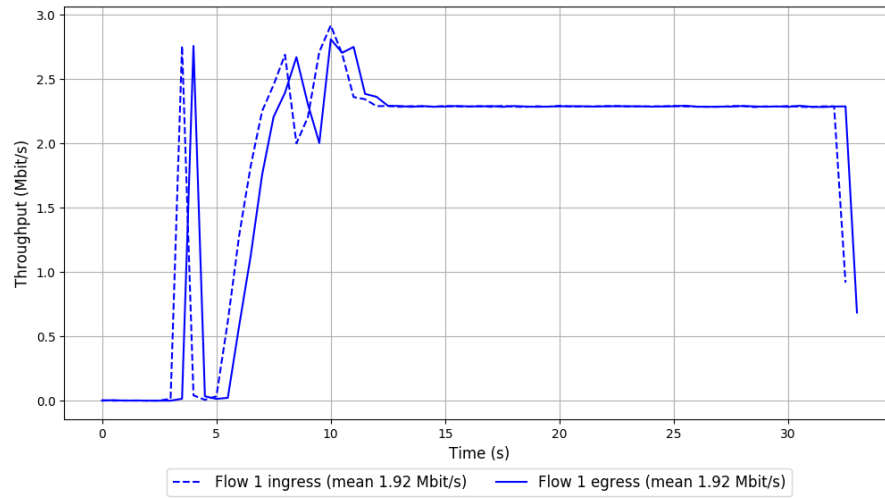


Run 3: Statistics of WebRTC media

Start at: 2018-07-05 00:10:36
End at: 2018-07-05 00:11:06
Local clock offset: -0.256 ms
Remote clock offset: -1.232 ms

Below is generated by plot.py at 2018-07-05 05:01:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 62.584 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 62.584 ms
Loss rate: 0.43%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-07-05 00:32:43

End at: 2018-07-05 00:33:13

Local clock offset: -0.227 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2018-07-05 05:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 61.452 ms

Loss rate: 0.43%

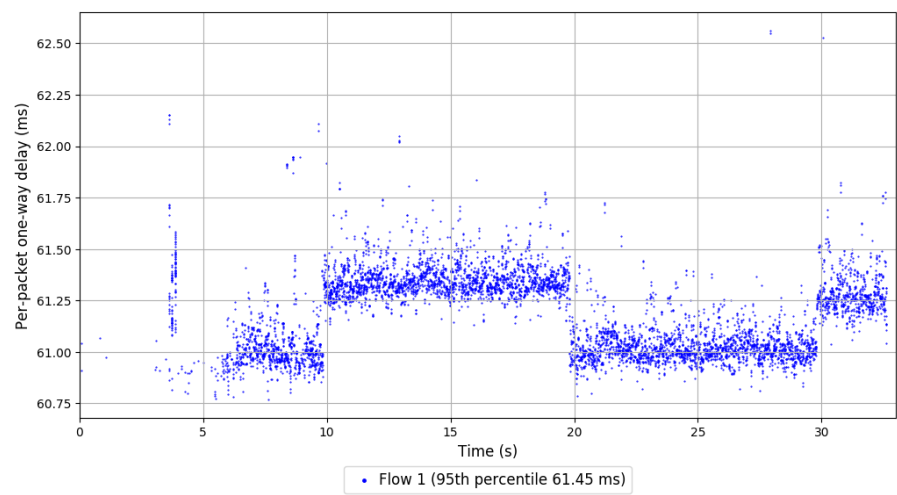
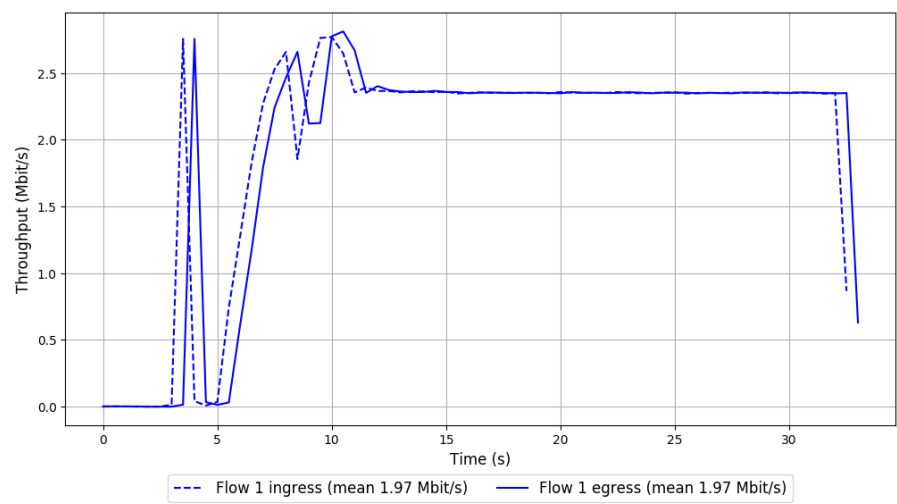
-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 61.452 ms

Loss rate: 0.43%

Run 4: Report of WebRTC media — Data Link

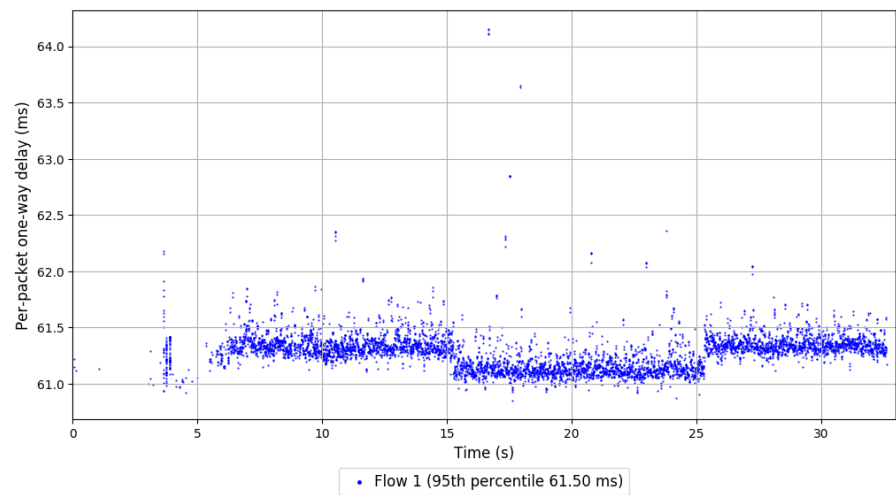
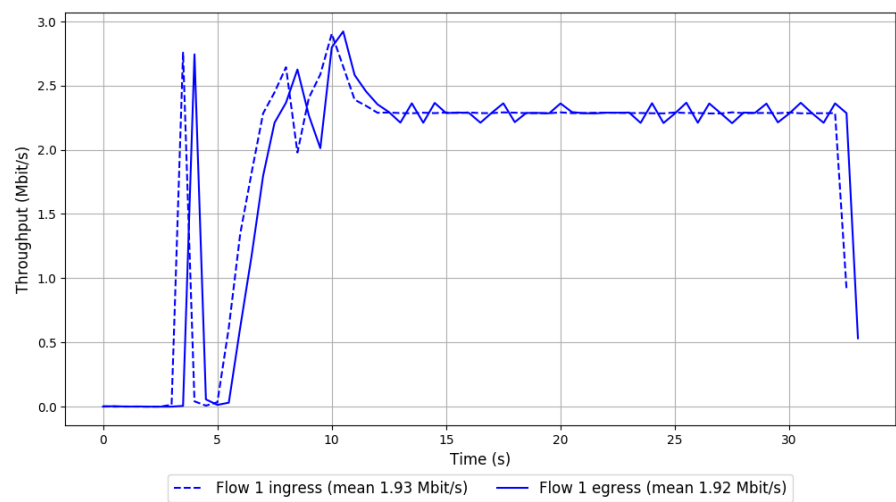


Run 5: Statistics of WebRTC media

Start at: 2018-07-05 00:55:07
End at: 2018-07-05 00:55:37
Local clock offset: -0.298 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2018-07-05 05:01:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 61.504 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 61.504 ms
Loss rate: 0.49%

Run 5: Report of WebRTC media — Data Link

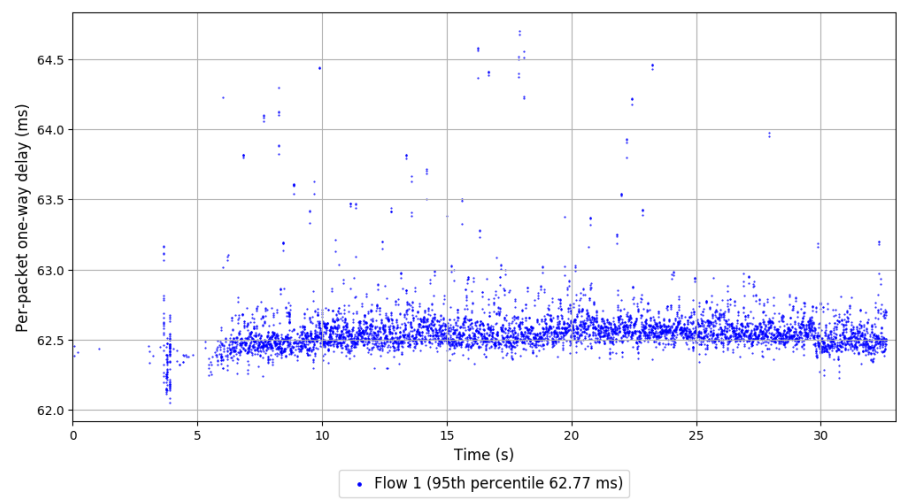
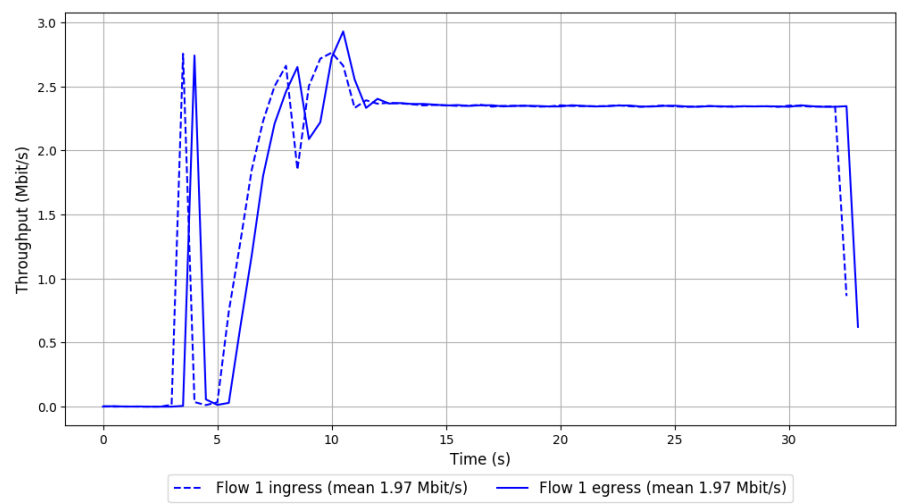


Run 6: Statistics of WebRTC media

Start at: 2018-07-05 01:17:33
End at: 2018-07-05 01:18:03
Local clock offset: -0.328 ms
Remote clock offset: -1.276 ms

Below is generated by plot.py at 2018-07-05 05:01:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 62.775 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 62.775 ms
Loss rate: 0.43%

Run 6: Report of WebRTC media — Data Link

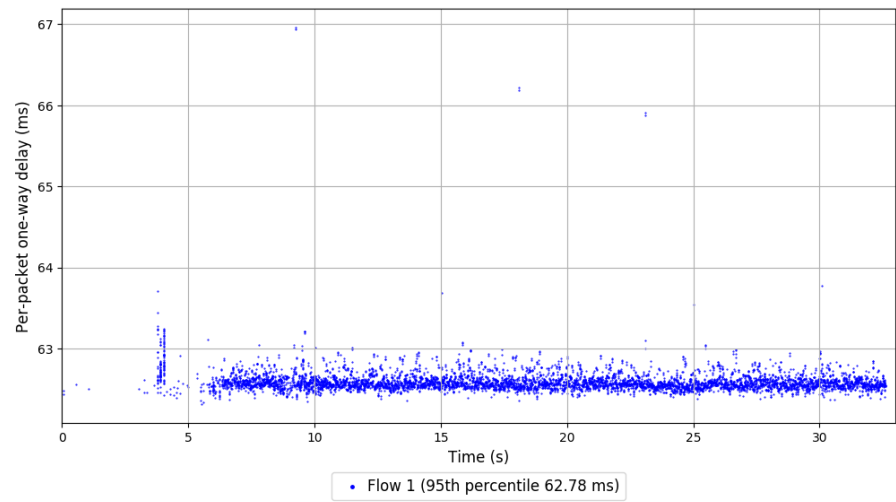
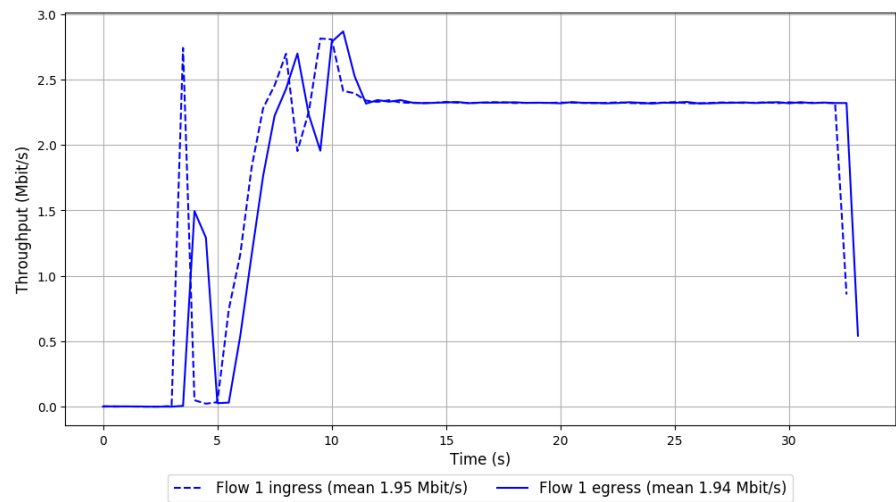


Run 7: Statistics of WebRTC media

Start at: 2018-07-05 01:39:58
End at: 2018-07-05 01:40:28
Local clock offset: -0.341 ms
Remote clock offset: -1.307 ms

Below is generated by plot.py at 2018-07-05 05:01:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 62.778 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 62.778 ms
Loss rate: 0.49%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-05 02:02:18

End at: 2018-07-05 02:02:48

Local clock offset: -0.417 ms

Remote clock offset: 0.091 ms

Below is generated by plot.py at 2018-07-05 05:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 61.557 ms

Loss rate: 0.42%

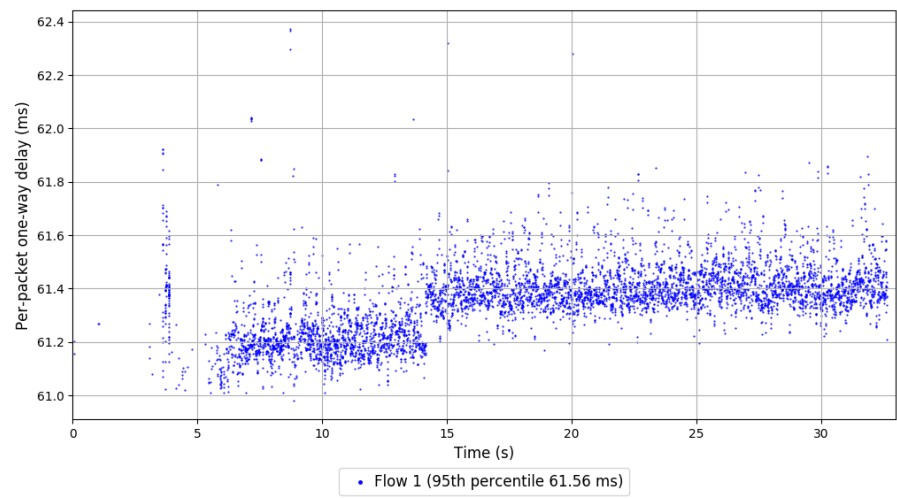
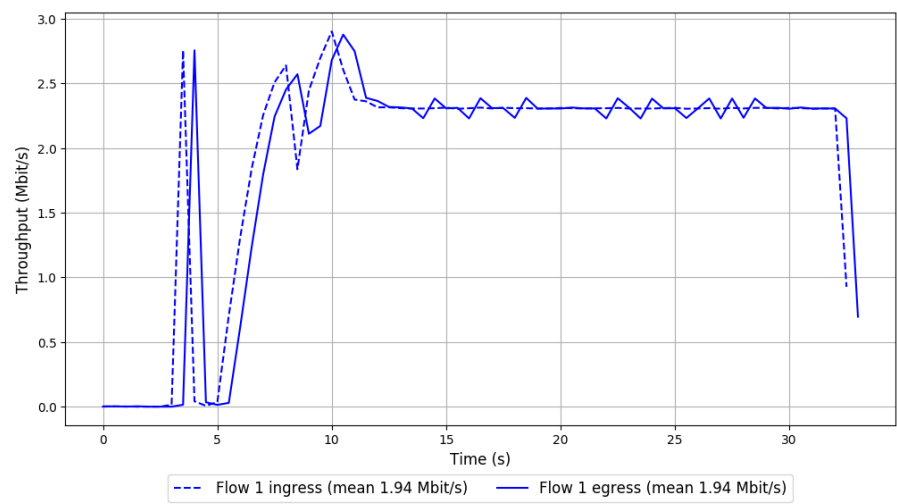
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 61.557 ms

Loss rate: 0.42%

Run 8: Report of WebRTC media — Data Link

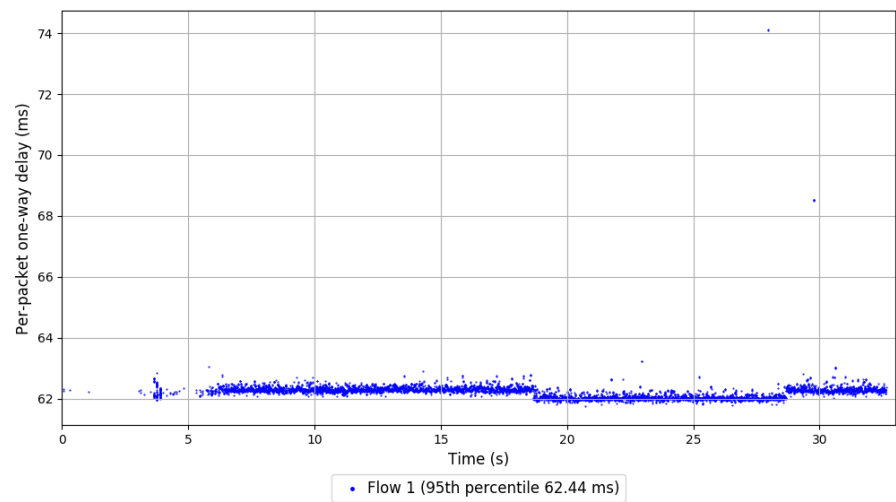
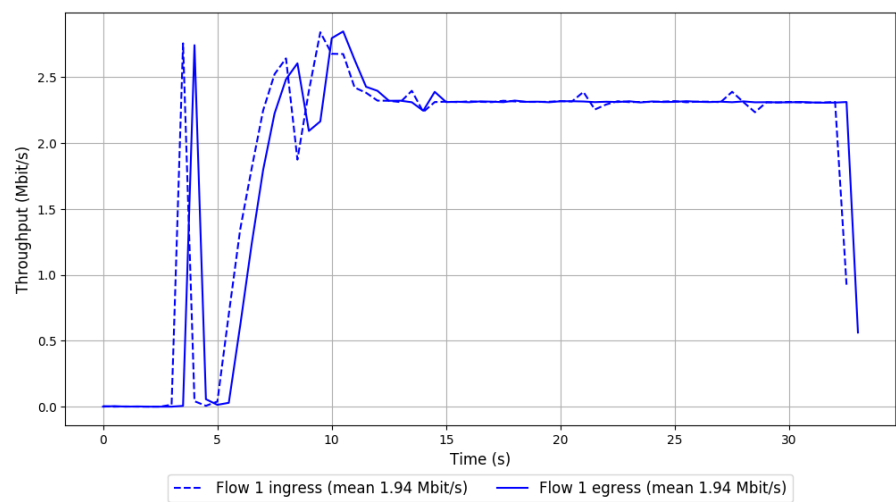


Run 9: Statistics of WebRTC media

Start at: 2018-07-05 02:24:14
End at: 2018-07-05 02:24:44
Local clock offset: -0.431 ms
Remote clock offset: -0.693 ms

Below is generated by plot.py at 2018-07-05 05:01:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 62.444 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 62.444 ms
Loss rate: 0.47%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-05 02:46:42

End at: 2018-07-05 02:47:12

Local clock offset: -0.367 ms

Remote clock offset: 0.358 ms

Below is generated by plot.py at 2018-07-05 05:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 61.556 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 61.556 ms

Loss rate: 0.43%

Run 10: Report of WebRTC media — Data Link

