

Pantheon Report

Generated at 2018-06-05 23:24:00 (UTC).

Data path: Mexico Ethernet (*remote*) → AWS California 2 Ethernet (*local*).

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

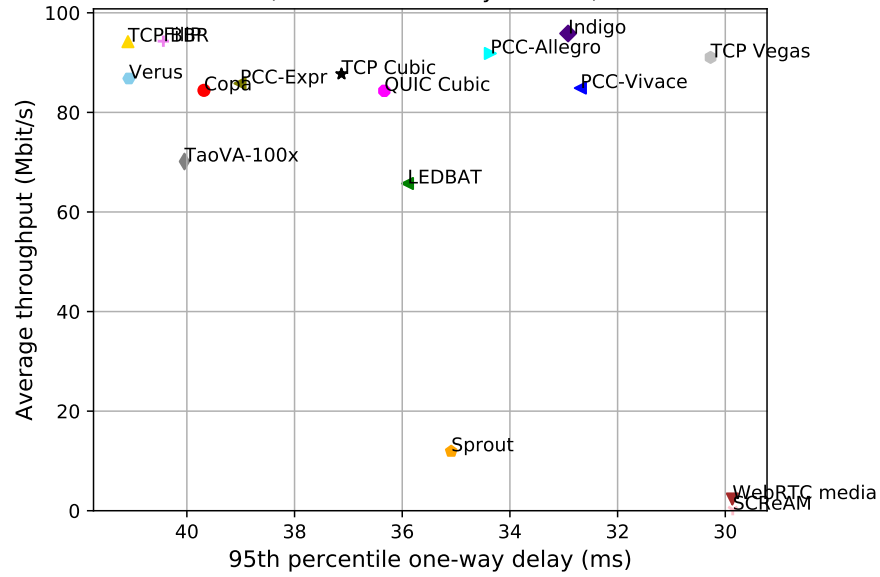
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

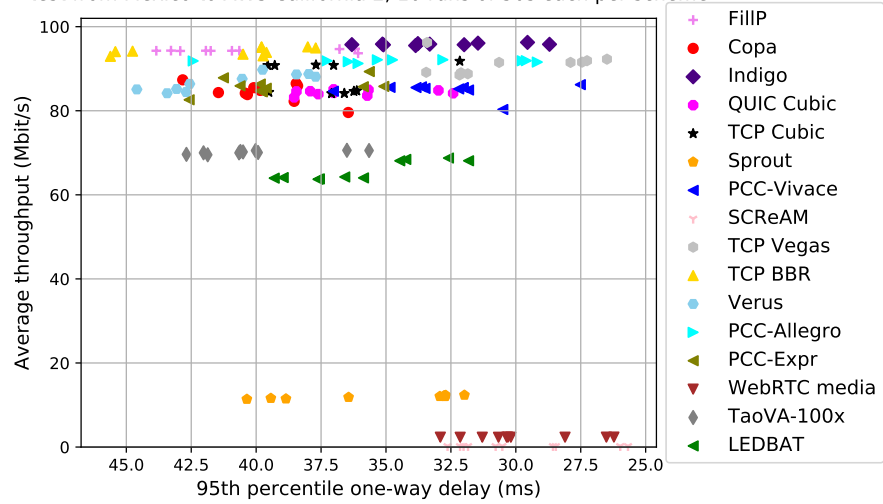
Git summary:

```
branch: master @ 227fdf9a3757f17b88537cceed5743a33037a3d2
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from Mexico to AWS California 2, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from Mexico to AWS California 2, 10 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	94.20	41.09	1.34
Copa	10	84.43	39.68	0.23
TCP Cubic	10	87.71	37.13	0.24
FillP	10	94.30	40.44	0.23
Indigo	10	95.84	32.92	0.21
LEDBAT	10	65.72	35.90	0.24
PCC-Allegro	10	91.84	34.36	0.22
PCC-Expr	10	85.81	39.01	0.25
QUIC Cubic	10	84.33	36.33	0.24
SCReAM	10	0.22	29.86	0.21
Sprout	10	11.94	35.09	0.24
TaoVA-100x	10	70.14	40.05	0.20
TCP Vegas	10	91.04	30.27	0.22
Verus	10	86.81	41.08	0.38
PCC-Vivace	10	84.89	32.69	0.22
WebRTC media	10	2.35	29.87	0.24

Run 1: Statistics of TCP BBR

Start at: 2018-06-05 19:46:25

End at: 2018-06-05 19:46:55

Local clock offset: 1.258 ms

Remote clock offset: -2.146 ms

Below is generated by plot.py at 2018-06-05 23:03:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.07 Mbit/s

95th percentile per-packet one-way delay: 39.734 ms

Loss rate: 1.41%

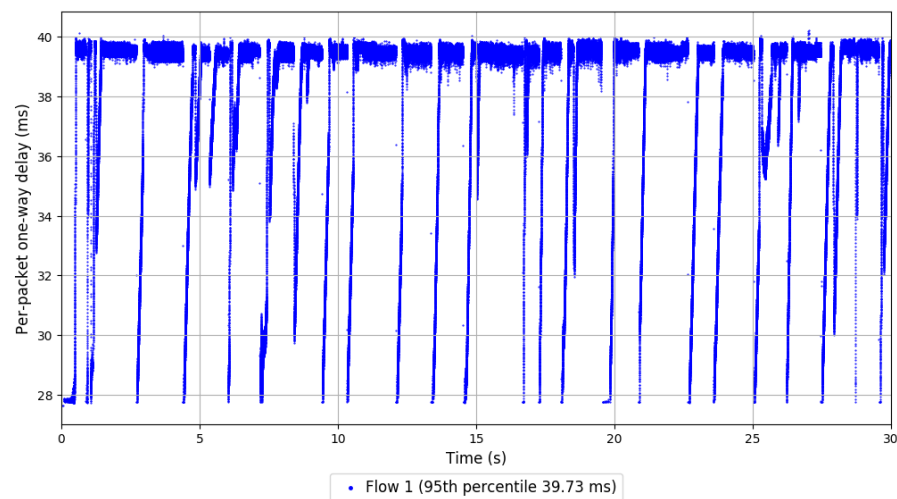
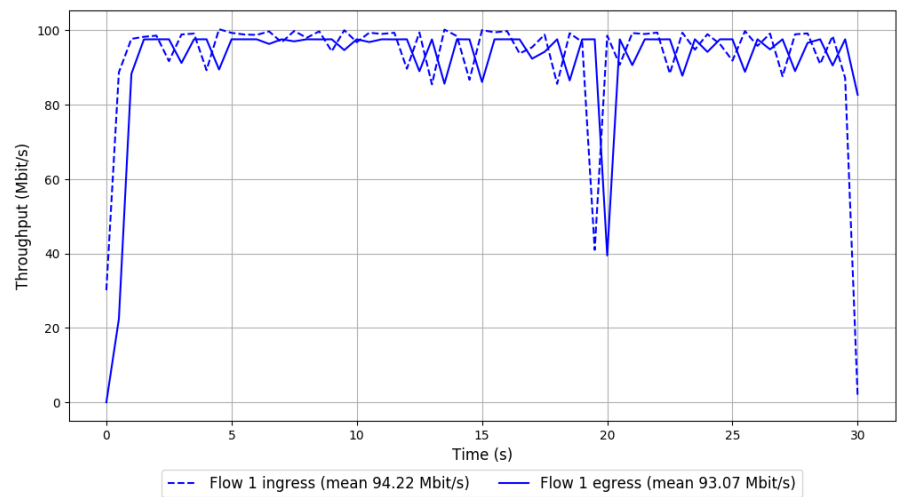
-- Flow 1:

Average throughput: 93.07 Mbit/s

95th percentile per-packet one-way delay: 39.734 ms

Loss rate: 1.41%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-05 20:07:20

End at: 2018-06-05 20:07:50

Local clock offset: 1.276 ms

Remote clock offset: -1.815 ms

Below is generated by plot.py at 2018-06-05 23:03:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.45 Mbit/s

95th percentile per-packet one-way delay: 40.506 ms

Loss rate: 1.48%

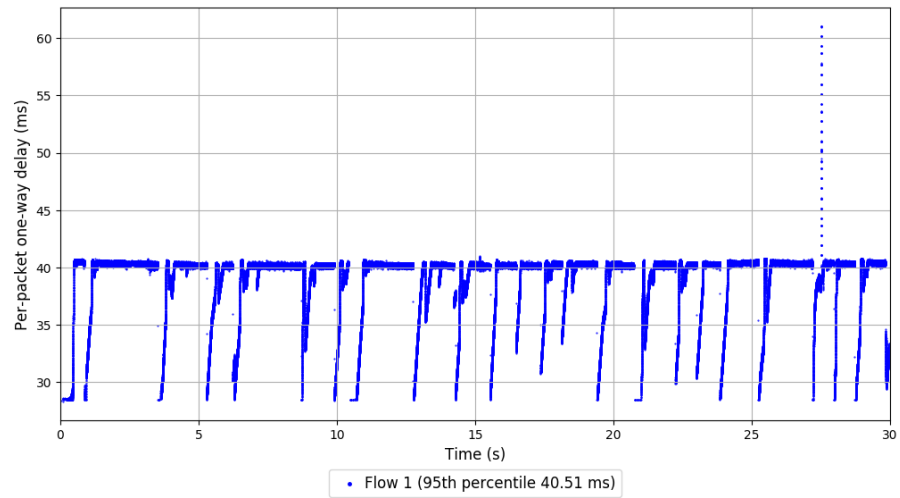
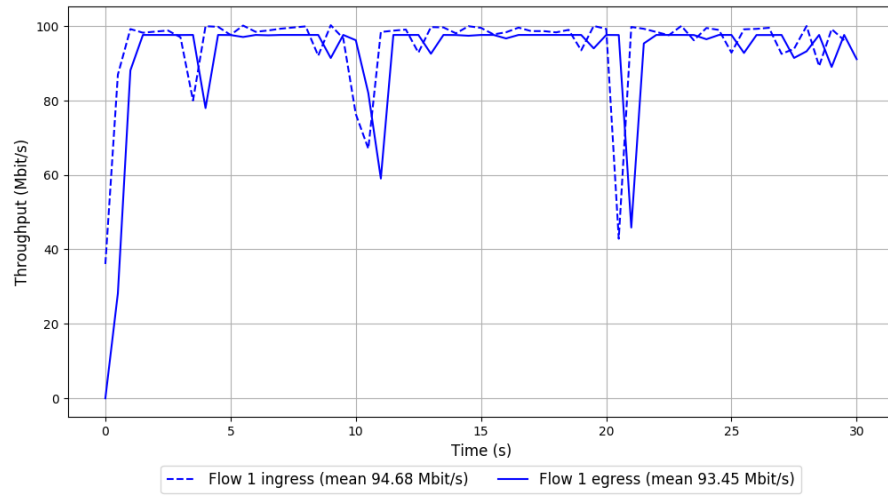
-- Flow 1:

Average throughput: 93.45 Mbit/s

95th percentile per-packet one-way delay: 40.506 ms

Loss rate: 1.48%

Run 2: Report of TCP BBR — Data Link

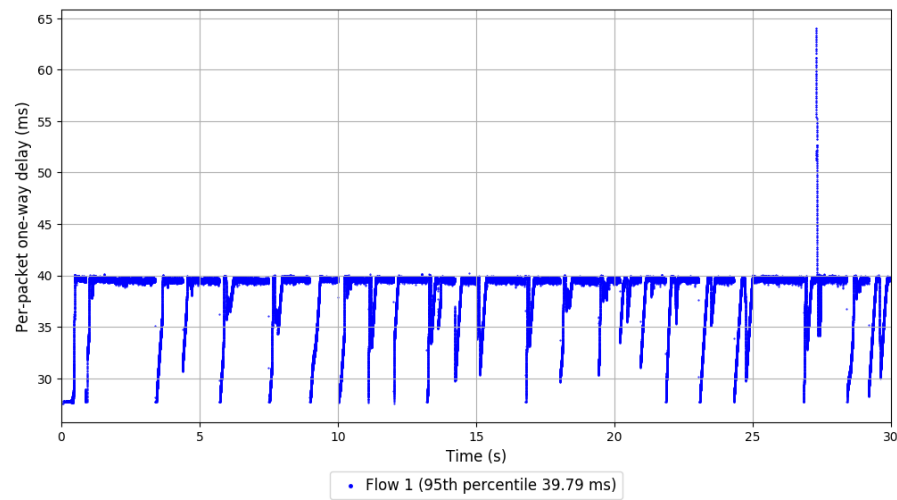
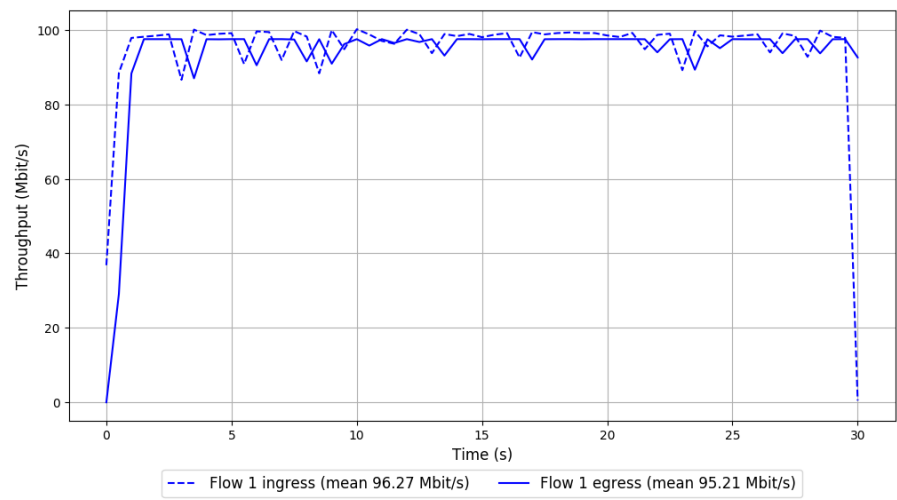


Run 3: Statistics of TCP BBR

Start at: 2018-06-05 20:28:21
End at: 2018-06-05 20:28:51
Local clock offset: 0.508 ms
Remote clock offset: -1.935 ms

Below is generated by plot.py at 2018-06-05 23:03:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.21 Mbit/s
95th percentile per-packet one-way delay: 39.791 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 95.21 Mbit/s
95th percentile per-packet one-way delay: 39.791 ms
Loss rate: 1.30%

Run 3: Report of TCP BBR — Data Link

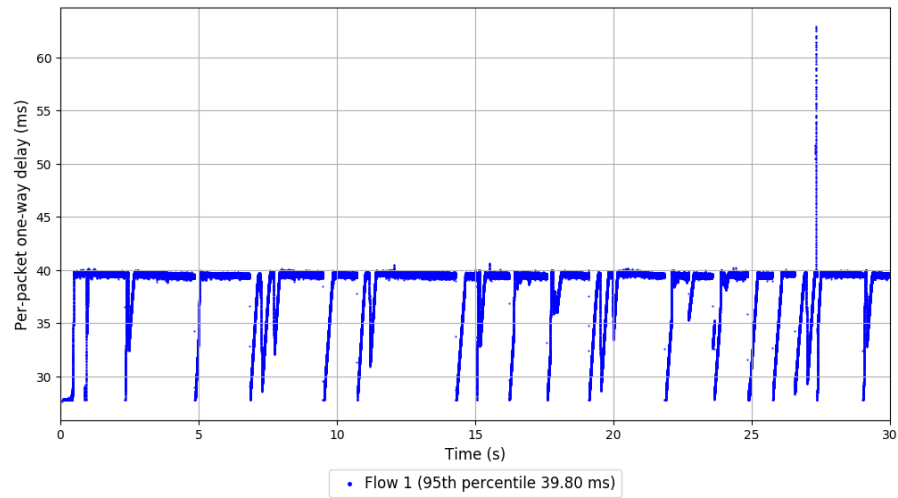
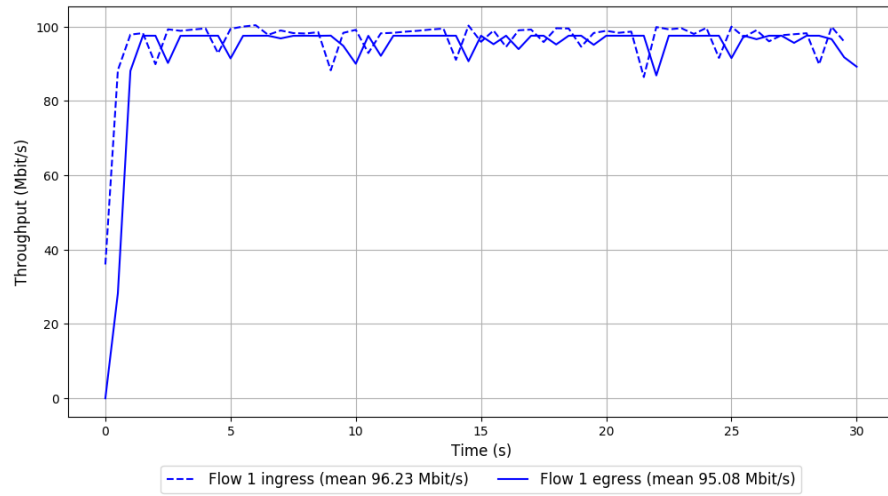


Run 4: Statistics of TCP BBR

Start at: 2018-06-05 20:49:21
End at: 2018-06-05 20:49:52
Local clock offset: 0.51 ms
Remote clock offset: -2.596 ms

Below is generated by plot.py at 2018-06-05 23:03:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.08 Mbit/s
95th percentile per-packet one-way delay: 39.798 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 95.08 Mbit/s
95th percentile per-packet one-way delay: 39.798 ms
Loss rate: 1.38%

Run 4: Report of TCP BBR — Data Link

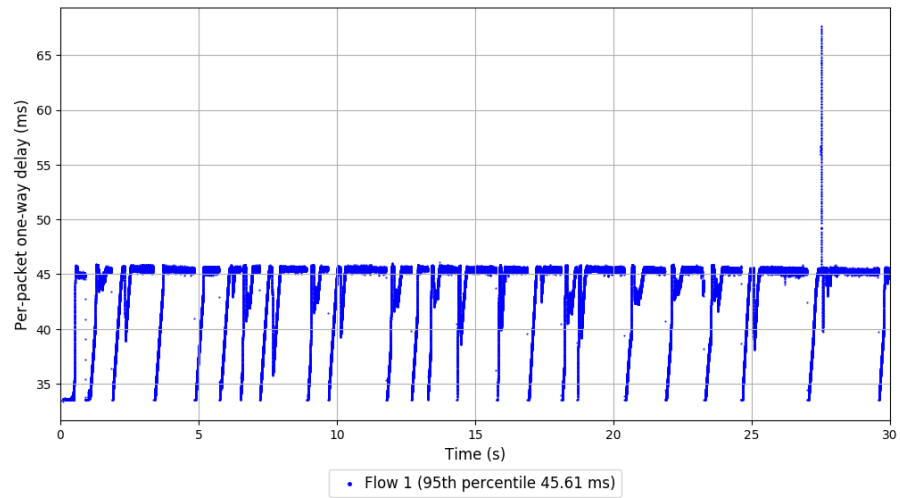
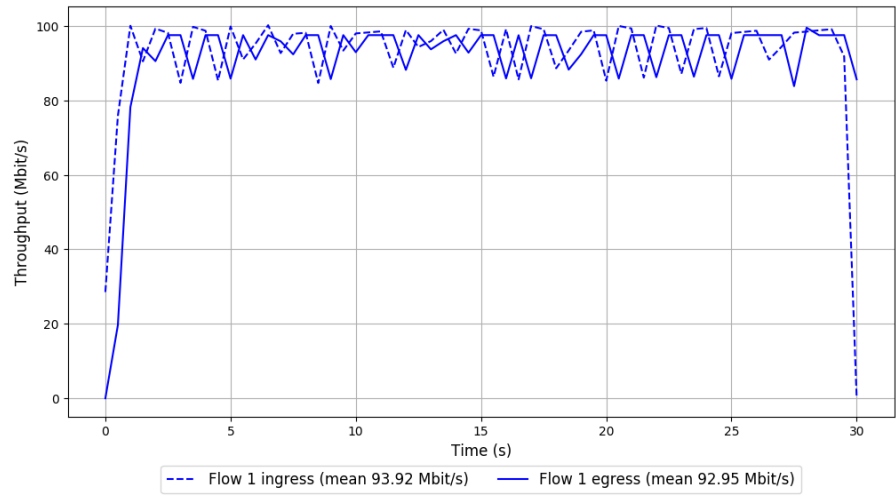


Run 5: Statistics of TCP BBR

Start at: 2018-06-05 21:10:18
End at: 2018-06-05 21:10:48
Local clock offset: 0.508 ms
Remote clock offset: -2.784 ms

Below is generated by plot.py at 2018-06-05 23:03:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.95 Mbit/s
95th percentile per-packet one-way delay: 45.613 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 92.95 Mbit/s
95th percentile per-packet one-way delay: 45.613 ms
Loss rate: 1.26%

Run 5: Report of TCP BBR — Data Link

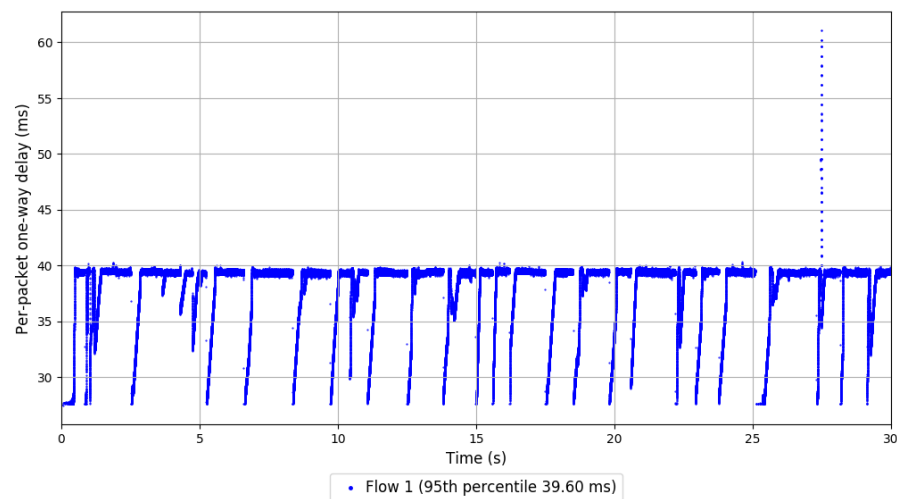
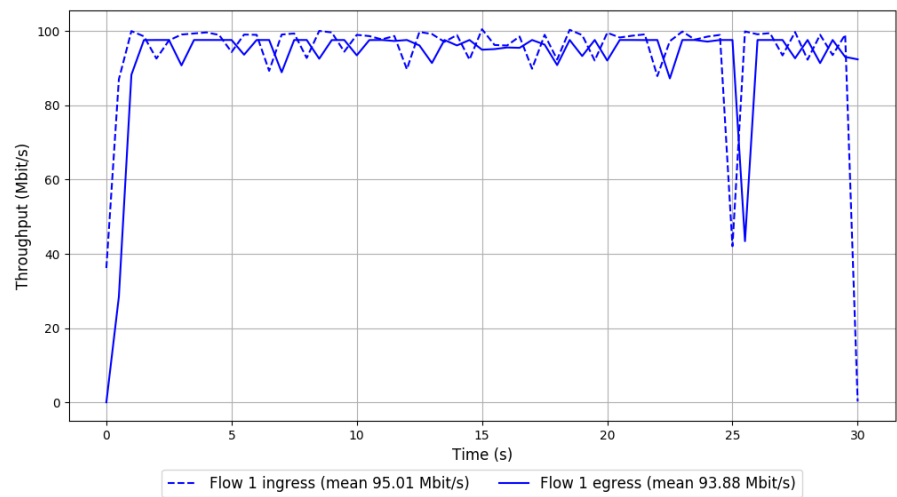


Run 6: Statistics of TCP BBR

Start at: 2018-06-05 21:31:19
End at: 2018-06-05 21:31:49
Local clock offset: 0.411 ms
Remote clock offset: -2.083 ms

Below is generated by plot.py at 2018-06-05 23:03:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.88 Mbit/s
95th percentile per-packet one-way delay: 39.604 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 93.88 Mbit/s
95th percentile per-packet one-way delay: 39.604 ms
Loss rate: 1.37%

Run 6: Report of TCP BBR — Data Link

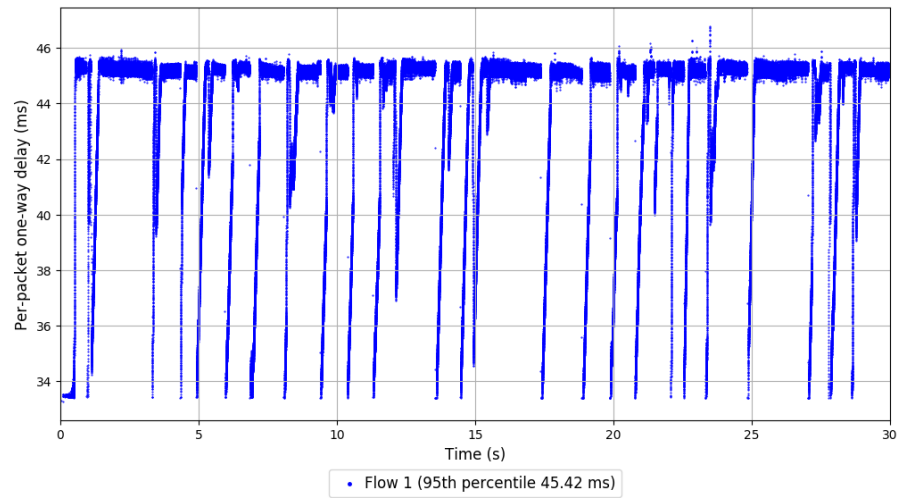
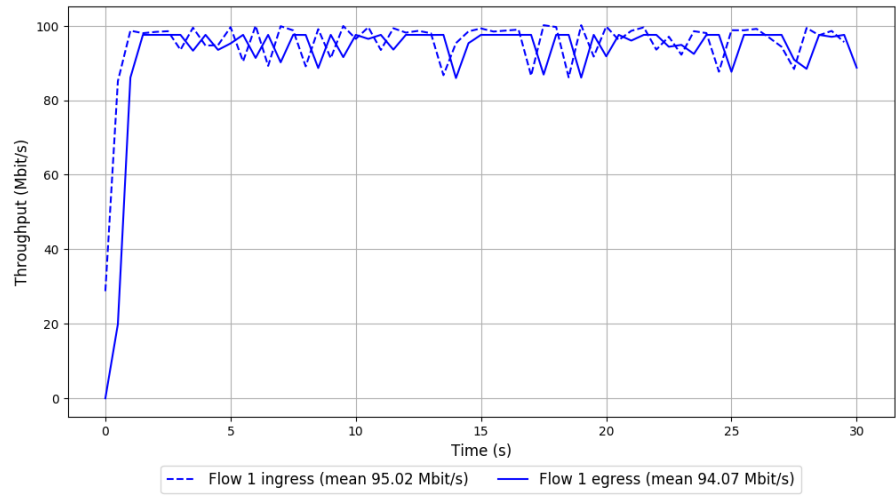


Run 7: Statistics of TCP BBR

Start at: 2018-06-05 21:52:20
End at: 2018-06-05 21:52:50
Local clock offset: 0.027 ms
Remote clock offset: -2.607 ms

Below is generated by plot.py at 2018-06-05 23:03:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.07 Mbit/s
95th percentile per-packet one-way delay: 45.421 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 94.07 Mbit/s
95th percentile per-packet one-way delay: 45.421 ms
Loss rate: 1.22%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-06-05 22:13:16

End at: 2018-06-05 22:13:46

Local clock offset: 0.158 ms

Remote clock offset: -0.644 ms

Below is generated by plot.py at 2018-06-05 23:03:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.20 Mbit/s

95th percentile per-packet one-way delay: 38.012 ms

Loss rate: 1.26%

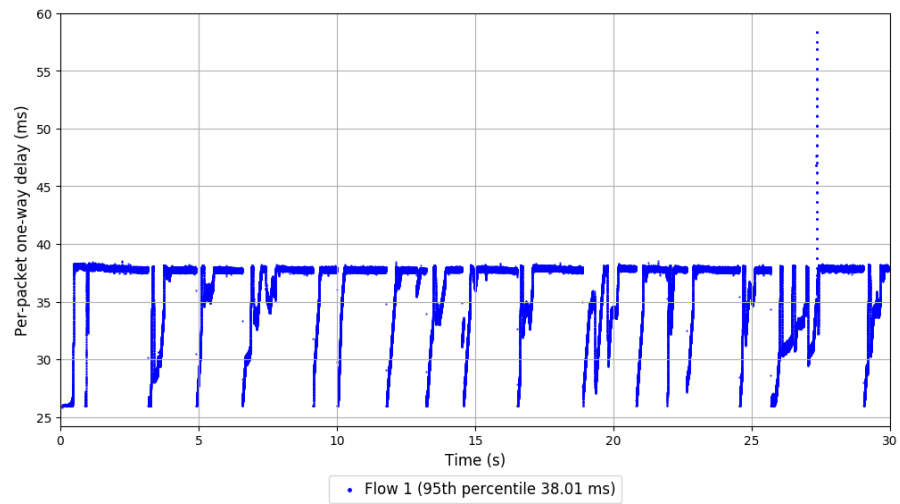
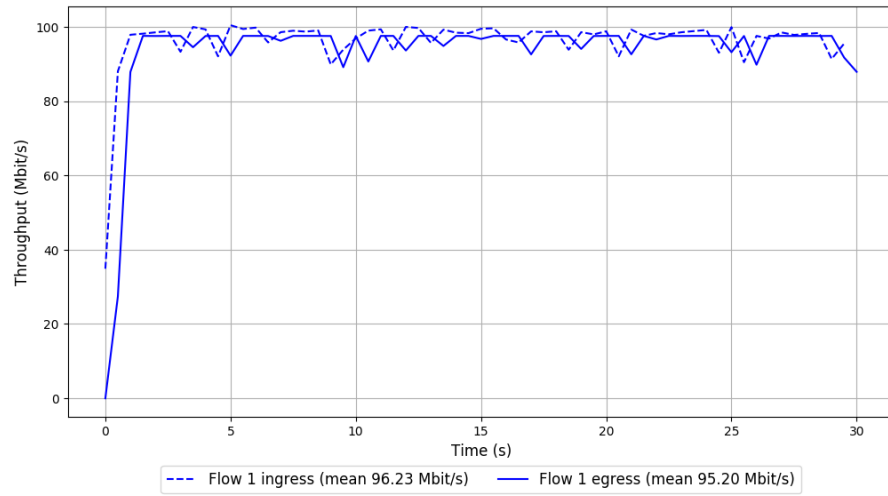
-- Flow 1:

Average throughput: 95.20 Mbit/s

95th percentile per-packet one-way delay: 38.012 ms

Loss rate: 1.26%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-05 22:34:14

End at: 2018-06-05 22:34:44

Local clock offset: 0.111 ms

Remote clock offset: -2.489 ms

Below is generated by plot.py at 2018-06-05 23:04:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 44.759 ms

Loss rate: 1.06%

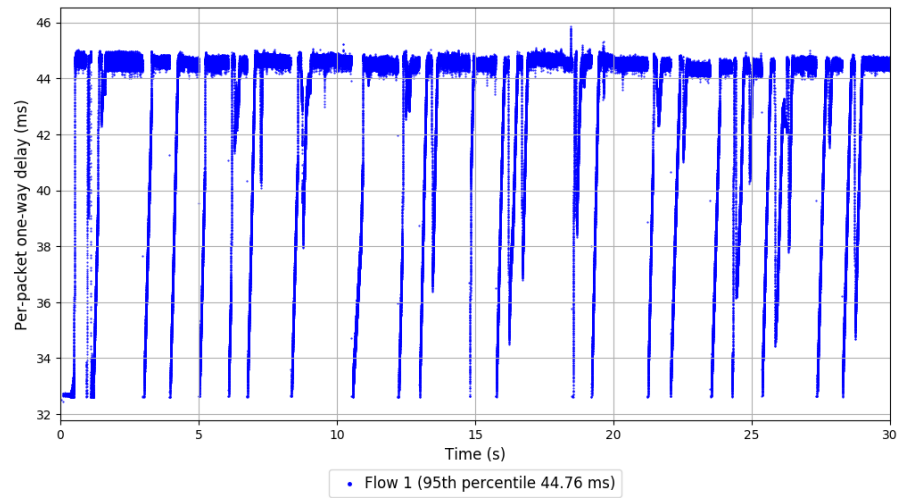
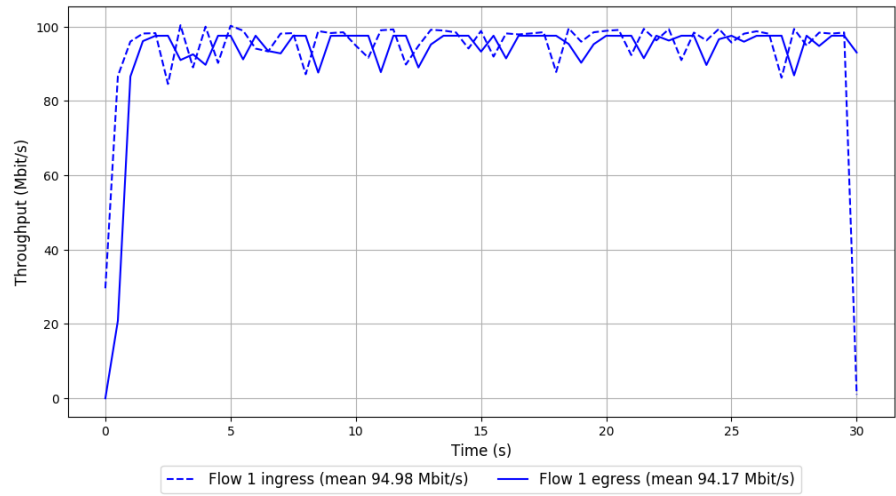
-- Flow 1:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 44.759 ms

Loss rate: 1.06%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-06-05 22:55:07

End at: 2018-06-05 22:55:37

Local clock offset: 0.44 ms

Remote clock offset: -0.262 ms

Below is generated by plot.py at 2018-06-05 23:04:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.95 Mbit/s

95th percentile per-packet one-way delay: 37.707 ms

Loss rate: 1.71%

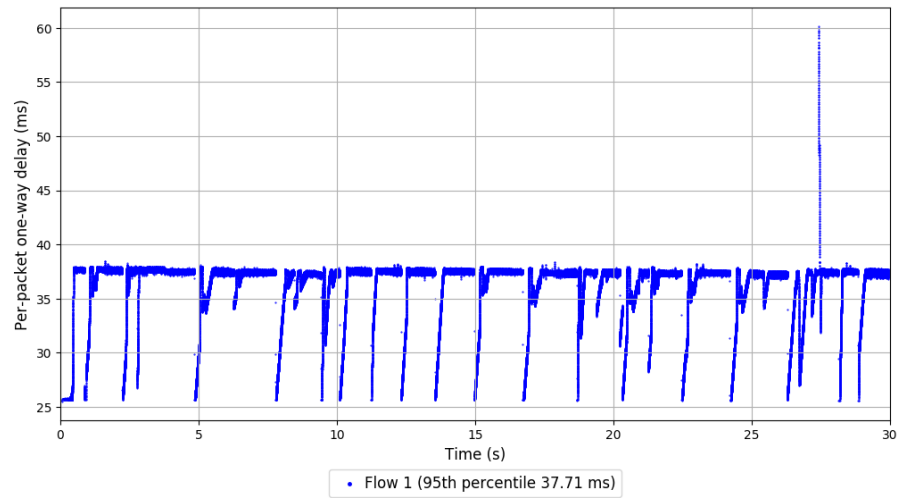
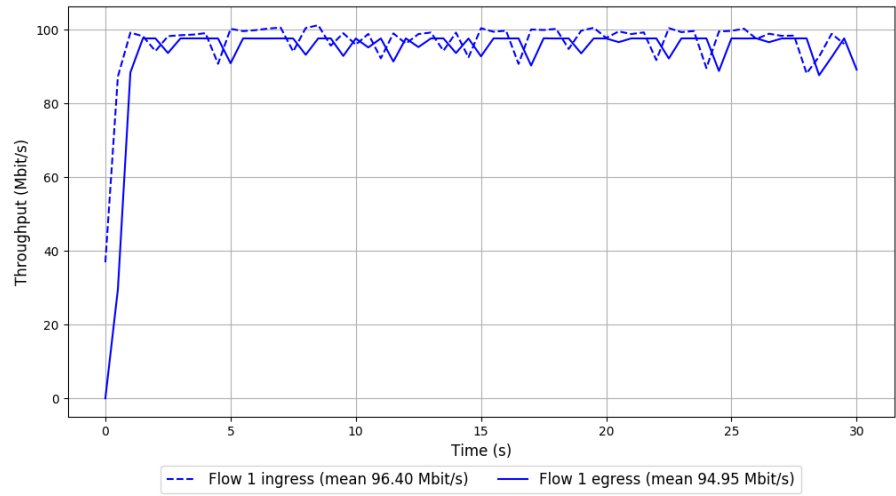
-- Flow 1:

Average throughput: 94.95 Mbit/s

95th percentile per-packet one-way delay: 37.707 ms

Loss rate: 1.71%

Run 10: Report of TCP BBR — Data Link

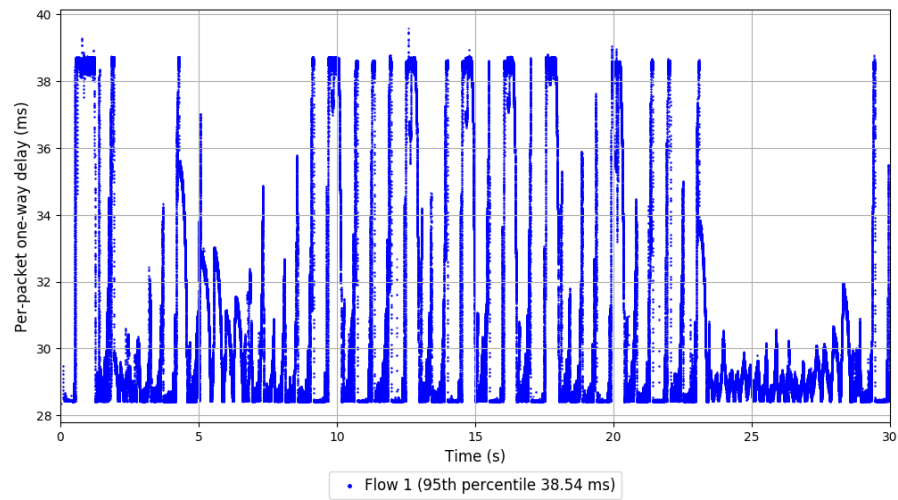
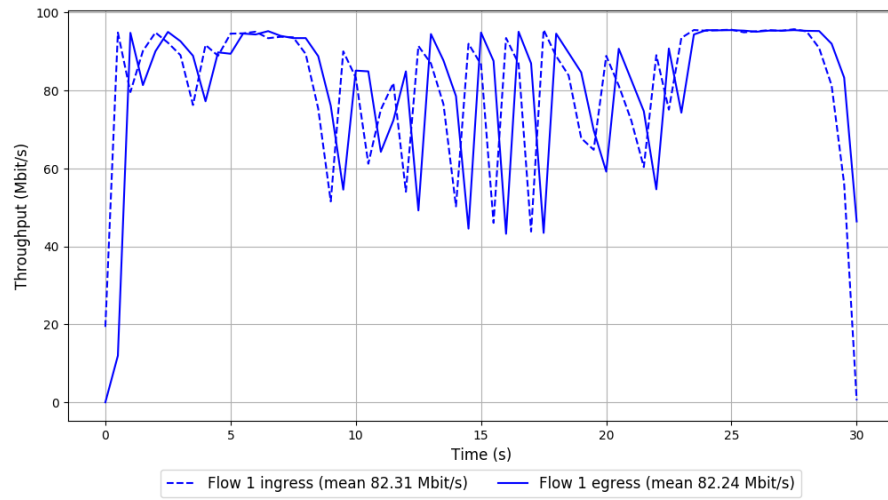


Run 1: Statistics of Copa

Start at: 2018-06-05 19:38:29
End at: 2018-06-05 19:38:59
Local clock offset: 1.256 ms
Remote clock offset: -2.223 ms

Below is generated by plot.py at 2018-06-05 23:05:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.24 Mbit/s
95th percentile per-packet one-way delay: 38.537 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 82.24 Mbit/s
95th percentile per-packet one-way delay: 38.537 ms
Loss rate: 0.27%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-06-05 19:59:24

End at: 2018-06-05 19:59:54

Local clock offset: 1.534 ms

Remote clock offset: 0.516 ms

Below is generated by plot.py at 2018-06-05 23:05:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.84 Mbit/s

95th percentile per-packet one-way delay: 40.337 ms

Loss rate: 0.28%

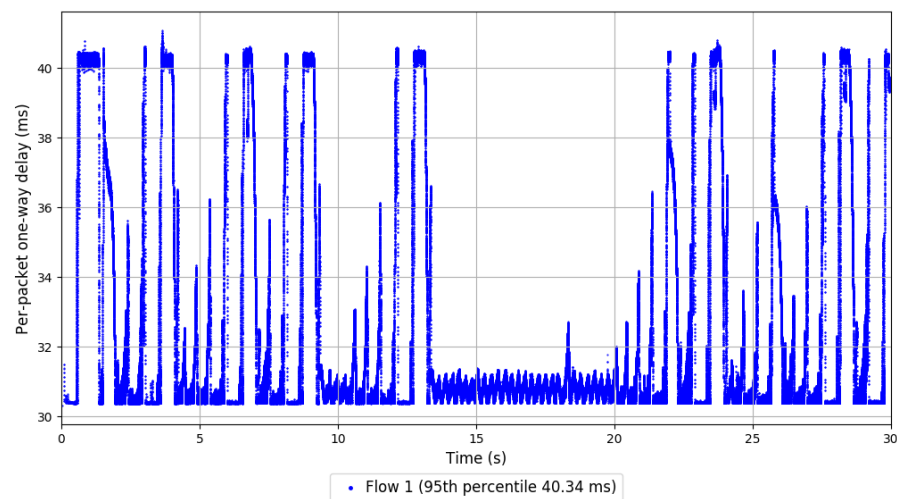
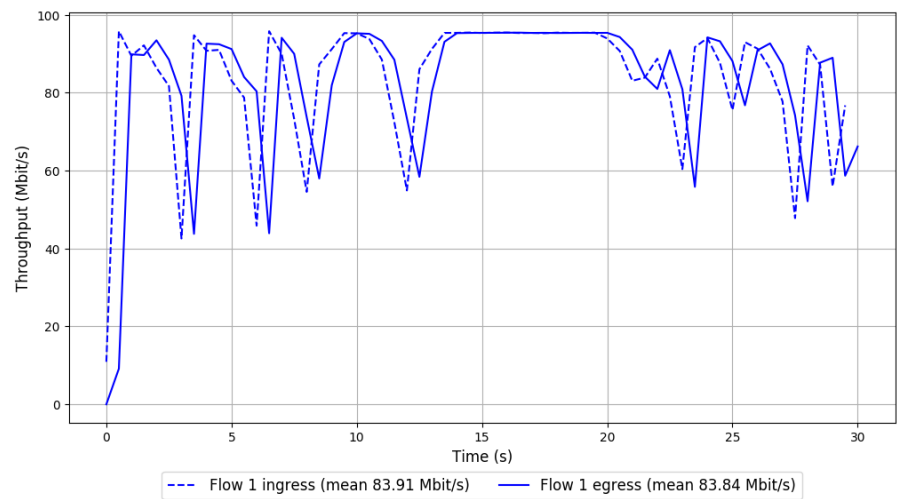
-- Flow 1:

Average throughput: 83.84 Mbit/s

95th percentile per-packet one-way delay: 40.337 ms

Loss rate: 0.28%

Run 2: Report of Copa — Data Link

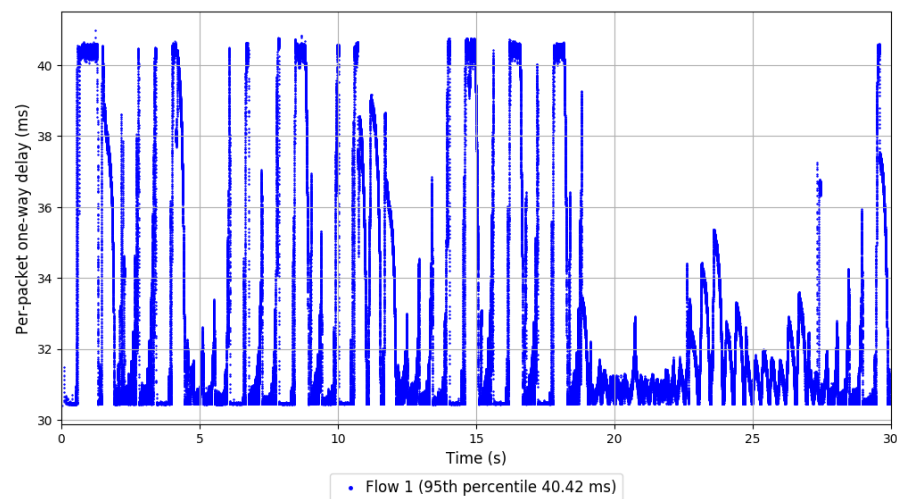
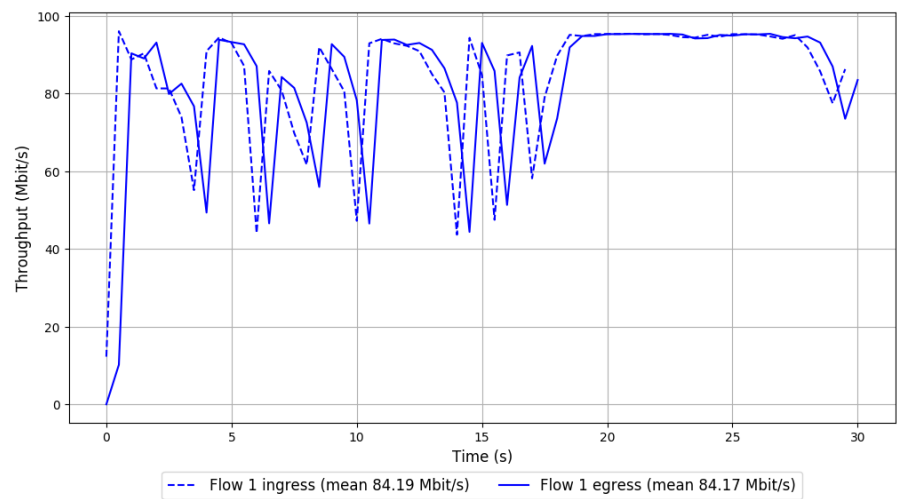


Run 3: Statistics of Copa

Start at: 2018-06-05 20:20:22
End at: 2018-06-05 20:20:52
Local clock offset: 0.552 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2018-06-05 23:05:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.17 Mbit/s
95th percentile per-packet one-way delay: 40.419 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 84.17 Mbit/s
95th percentile per-packet one-way delay: 40.419 ms
Loss rate: 0.22%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-06-05 20:41:23

End at: 2018-06-05 20:41:53

Local clock offset: 0.416 ms

Remote clock offset: 0.352 ms

Below is generated by plot.py at 2018-06-05 23:05:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.48 Mbit/s

95th percentile per-packet one-way delay: 40.092 ms

Loss rate: 0.27%

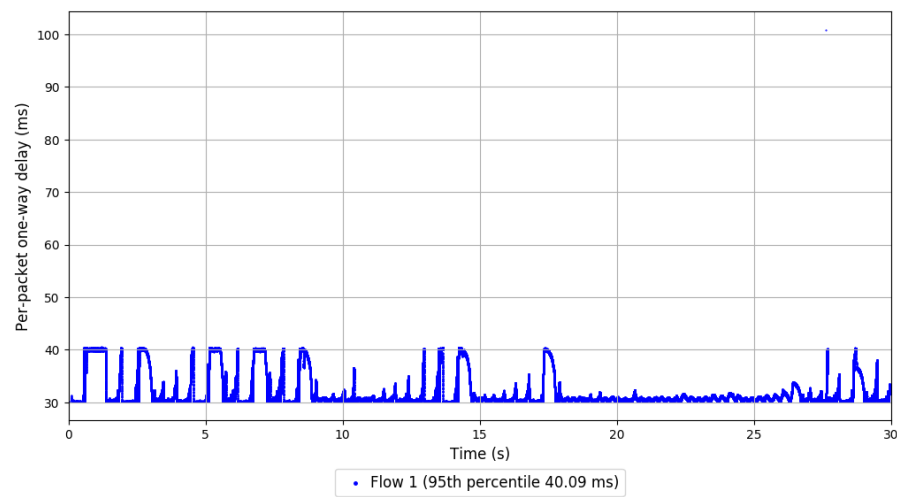
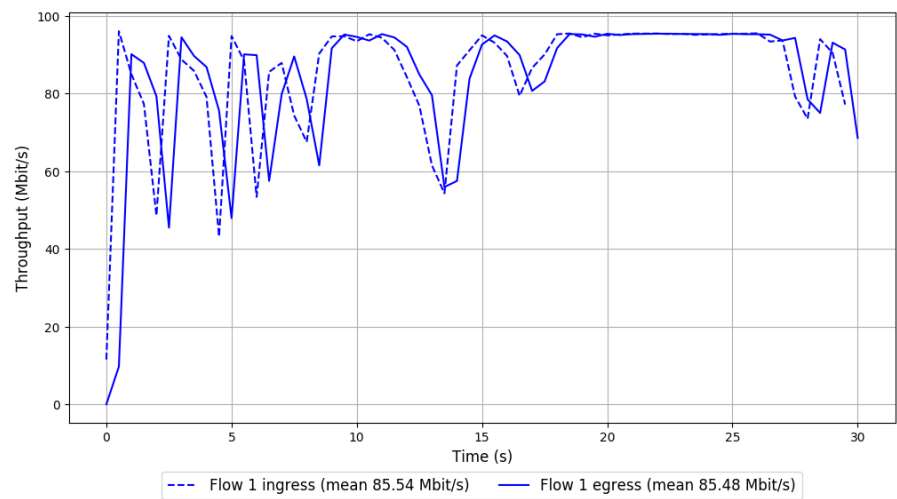
-- Flow 1:

Average throughput: 85.48 Mbit/s

95th percentile per-packet one-way delay: 40.092 ms

Loss rate: 0.27%

Run 4: Report of Copa — Data Link

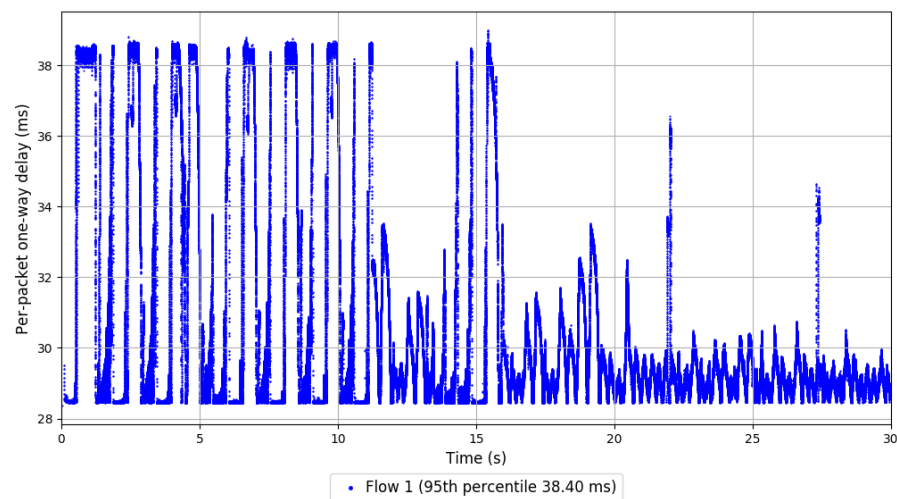
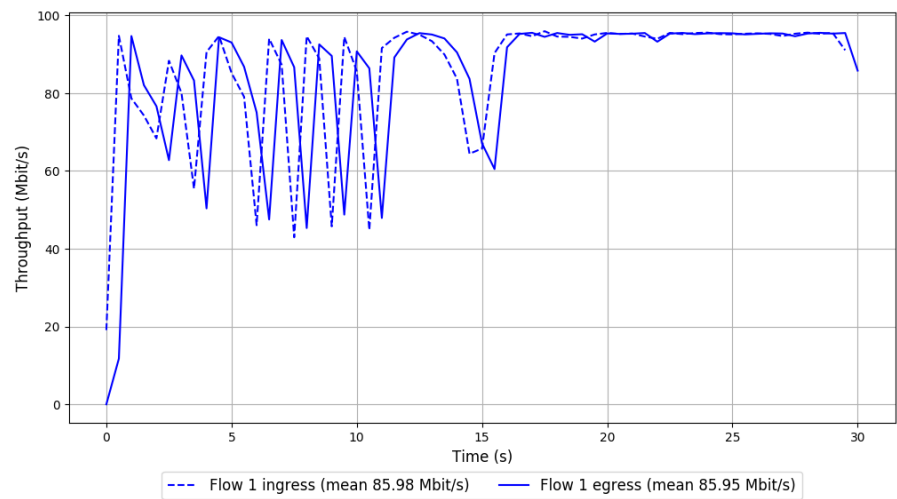


Run 5: Statistics of Copa

Start at: 2018-06-05 21:02:21
End at: 2018-06-05 21:02:51
Local clock offset: 0.456 ms
Remote clock offset: -2.776 ms

Below is generated by plot.py at 2018-06-05 23:05:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.95 Mbit/s
95th percentile per-packet one-way delay: 38.404 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 85.95 Mbit/s
95th percentile per-packet one-way delay: 38.404 ms
Loss rate: 0.22%

Run 5: Report of Copa — Data Link

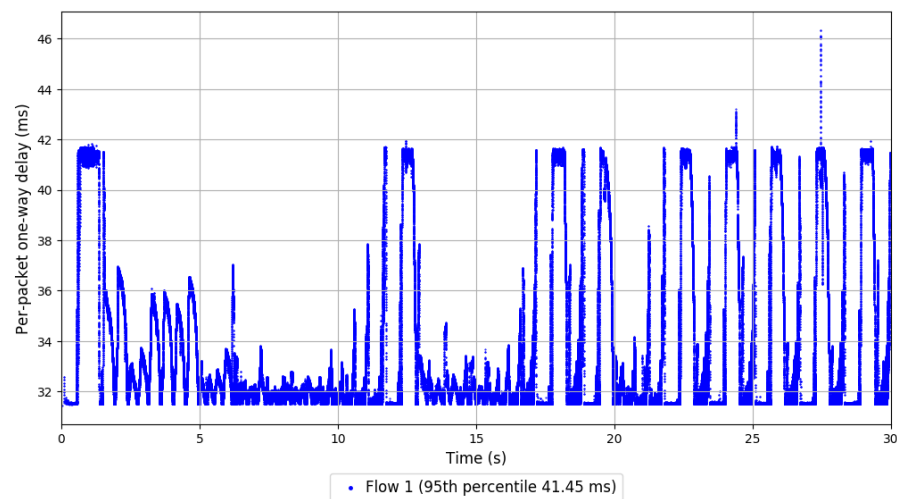
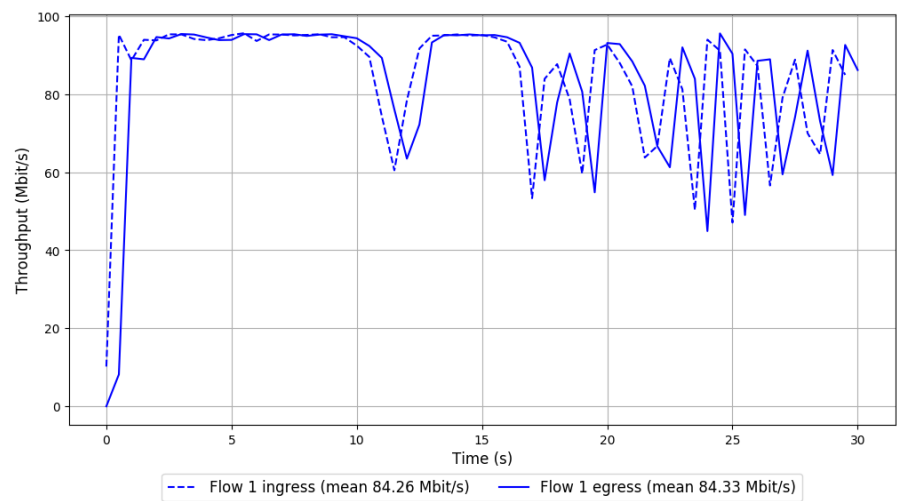


Run 6: Statistics of Copa

Start at: 2018-06-05 21:23:22
End at: 2018-06-05 21:23:52
Local clock offset: 0.528 ms
Remote clock offset: -0.275 ms

Below is generated by plot.py at 2018-06-05 23:05:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.33 Mbit/s
95th percentile per-packet one-way delay: 41.453 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 84.33 Mbit/s
95th percentile per-packet one-way delay: 41.453 ms
Loss rate: 0.12%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-06-05 21:44:24

End at: 2018-06-05 21:44:54

Local clock offset: 0.222 ms

Remote clock offset: 0.087 ms

Below is generated by plot.py at 2018-06-05 23:06:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.84 Mbit/s

95th percentile per-packet one-way delay: 39.844 ms

Loss rate: 0.22%

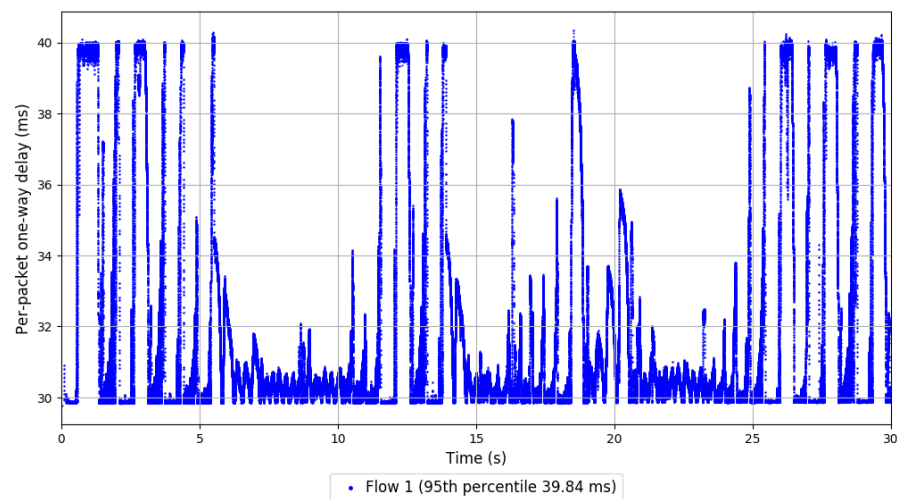
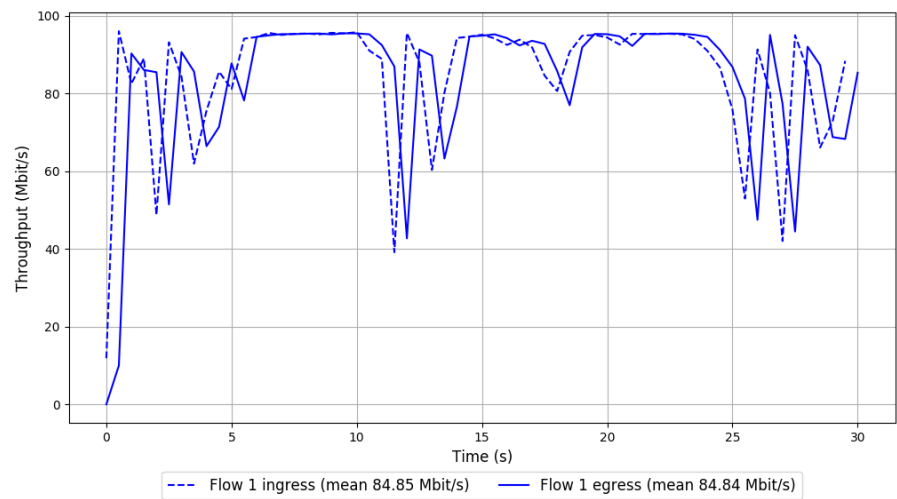
-- Flow 1:

Average throughput: 84.84 Mbit/s

95th percentile per-packet one-way delay: 39.844 ms

Loss rate: 0.22%

Run 7: Report of Copa — Data Link

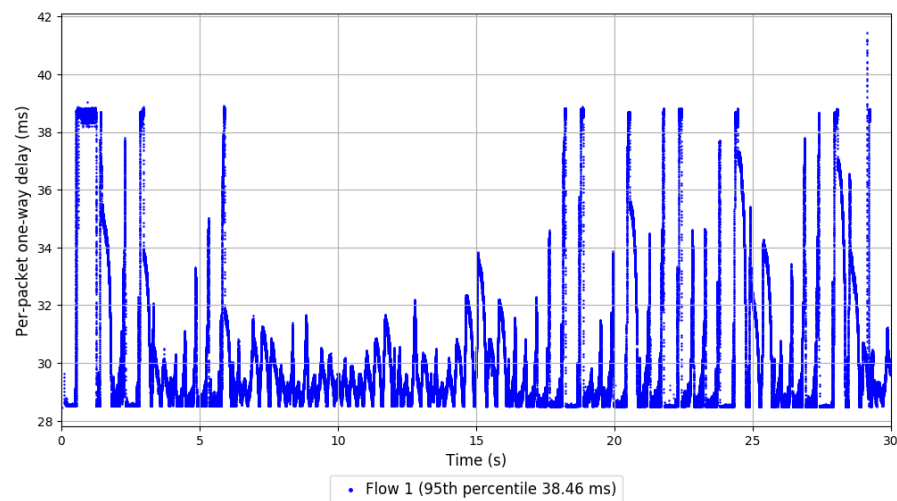
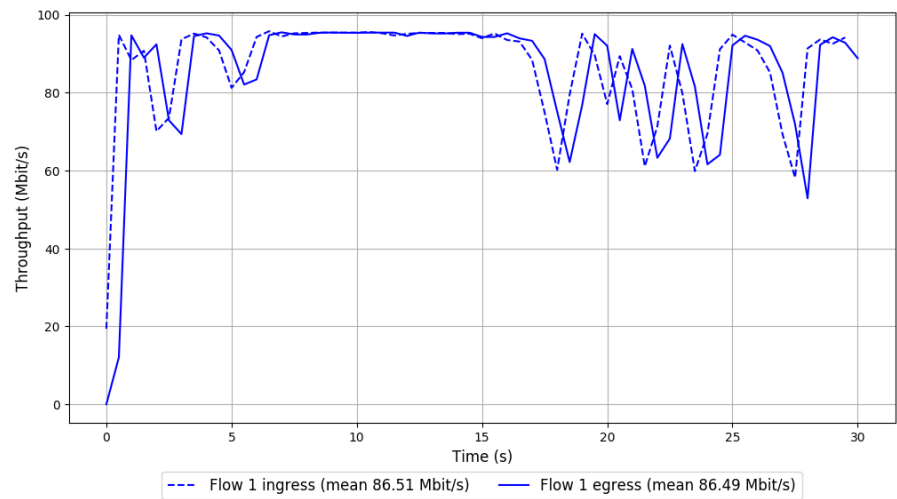


Run 8: Statistics of Copa

Start at: 2018-06-05 22:05:19
End at: 2018-06-05 22:05:49
Local clock offset: 0.056 ms
Remote clock offset: -3.094 ms

Below is generated by plot.py at 2018-06-05 23:06:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.49 Mbit/s
95th percentile per-packet one-way delay: 38.458 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 86.49 Mbit/s
95th percentile per-packet one-way delay: 38.458 ms
Loss rate: 0.22%

Run 8: Report of Copa — Data Link

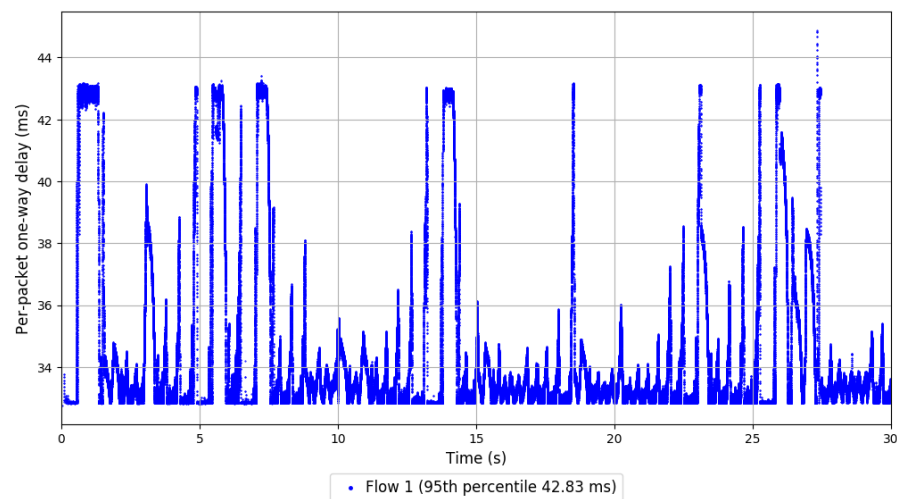
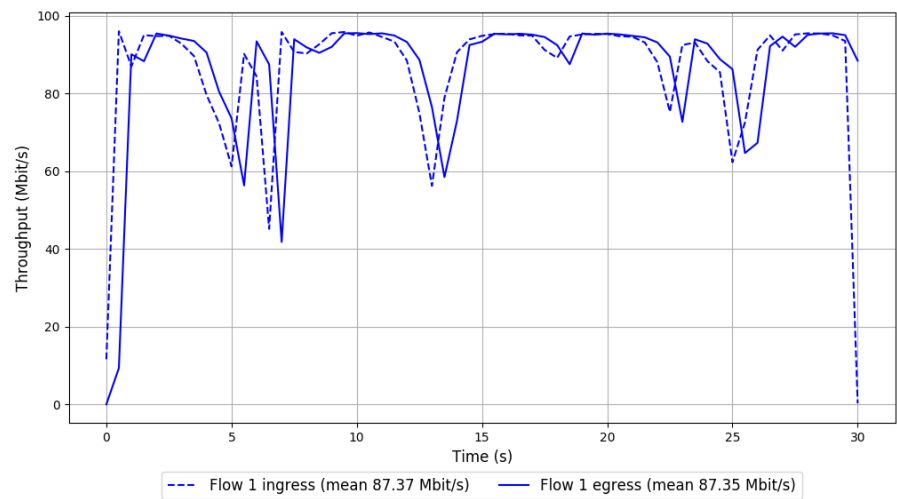


Run 9: Statistics of Copa

Start at: 2018-06-05 22:26:16
End at: 2018-06-05 22:26:46
Local clock offset: 0.213 ms
Remote clock offset: -2.826 ms

Below is generated by plot.py at 2018-06-05 23:07:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.35 Mbit/s
95th percentile per-packet one-way delay: 42.828 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 87.35 Mbit/s
95th percentile per-packet one-way delay: 42.828 ms
Loss rate: 0.23%

Run 9: Report of Copa — Data Link

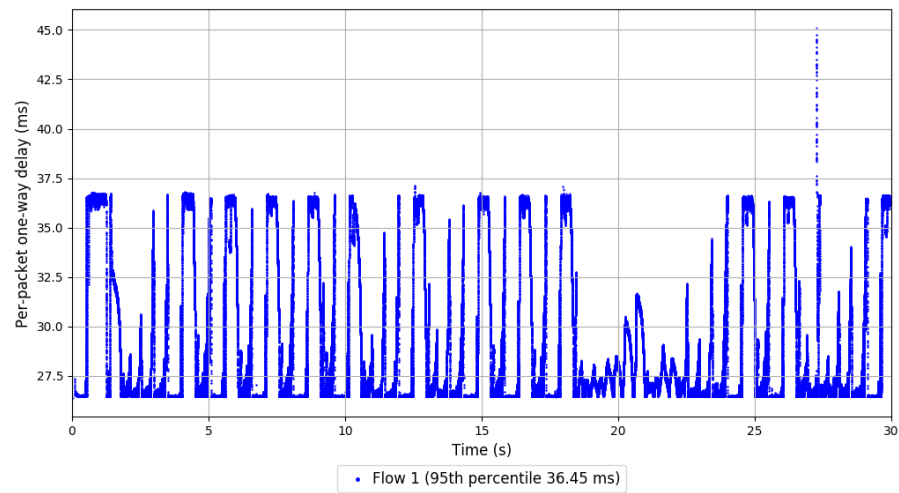
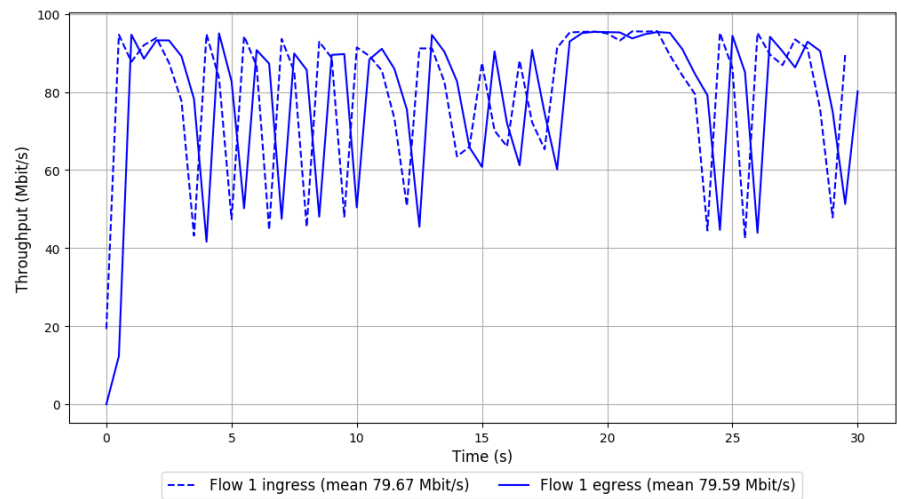


Run 10: Statistics of Copa

Start at: 2018-06-05 22:47:12
End at: 2018-06-05 22:47:42
Local clock offset: 0.407 ms
Remote clock offset: -0.257 ms

Below is generated by plot.py at 2018-06-05 23:07:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.59 Mbit/s
95th percentile per-packet one-way delay: 36.452 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 79.59 Mbit/s
95th percentile per-packet one-way delay: 36.452 ms
Loss rate: 0.29%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-06-05 19:35:52

End at: 2018-06-05 19:36:22

Local clock offset: 1.216 ms

Remote clock offset: 0.22 ms

Below is generated by plot.py at 2018-06-05 23:07:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.82 Mbit/s

95th percentile per-packet one-way delay: 37.016 ms

Loss rate: 0.22%

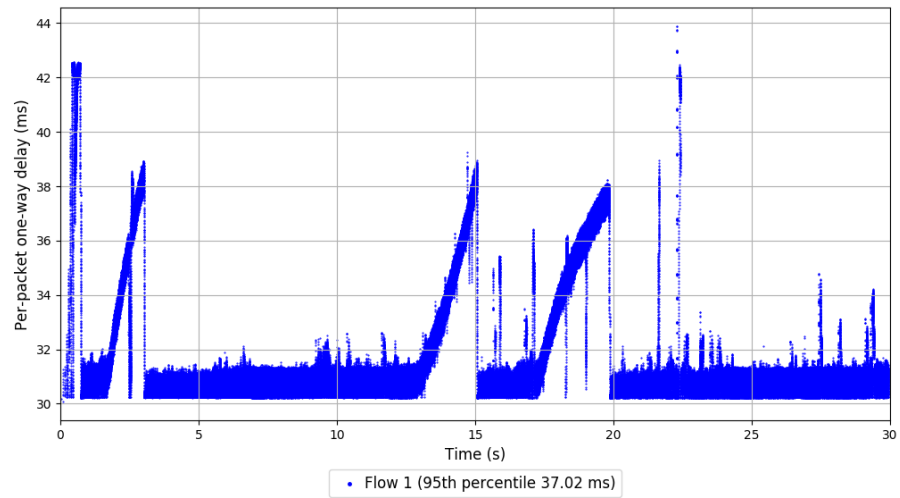
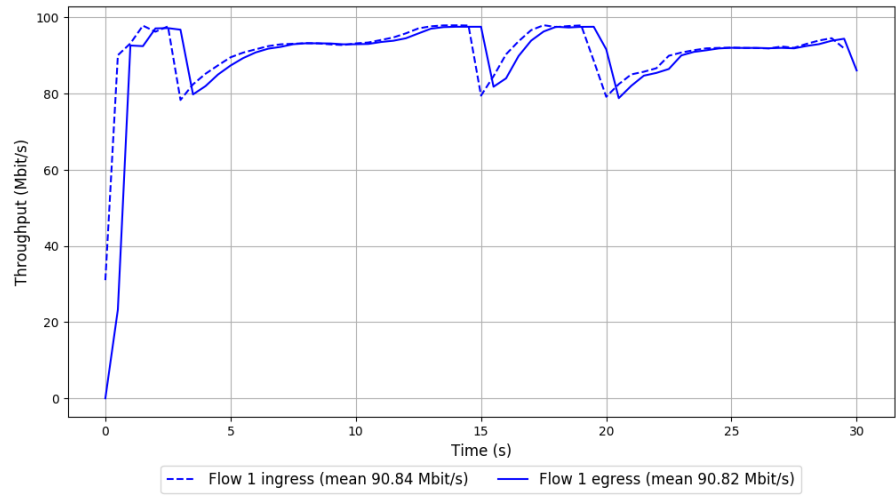
-- Flow 1:

Average throughput: 90.82 Mbit/s

95th percentile per-packet one-way delay: 37.016 ms

Loss rate: 0.22%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-06-05 19:56:47

End at: 2018-06-05 19:57:17

Local clock offset: 1.475 ms

Remote clock offset: 0.724 ms

Below is generated by plot.py at 2018-06-05 23:07:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.80 Mbit/s

95th percentile per-packet one-way delay: 32.158 ms

Loss rate: 0.21%

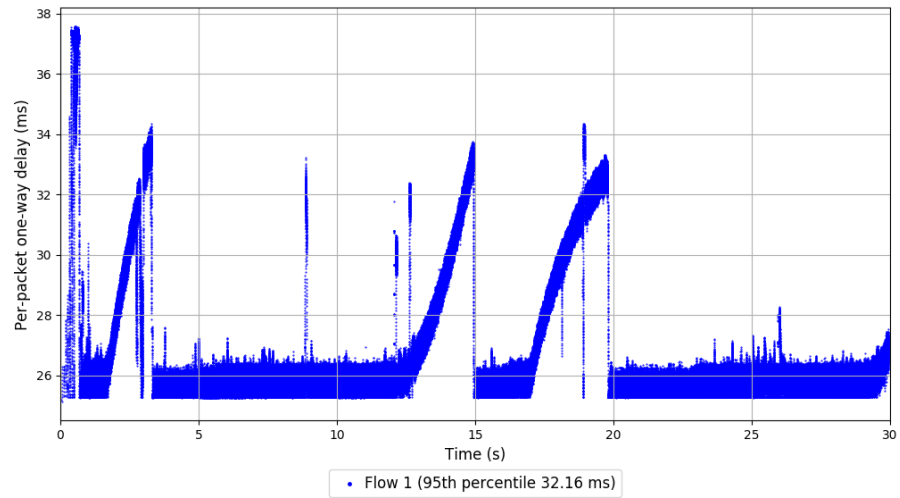
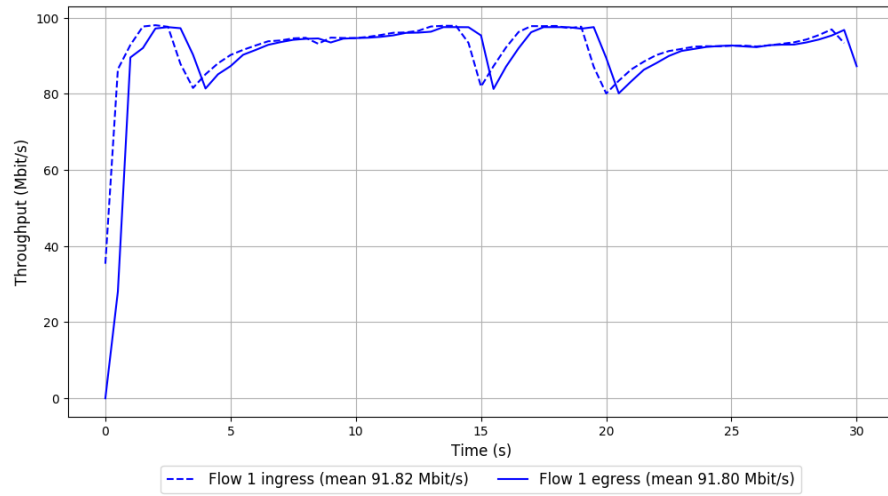
-- Flow 1:

Average throughput: 91.80 Mbit/s

95th percentile per-packet one-way delay: 32.158 ms

Loss rate: 0.21%

Run 2: Report of TCP Cubic — Data Link

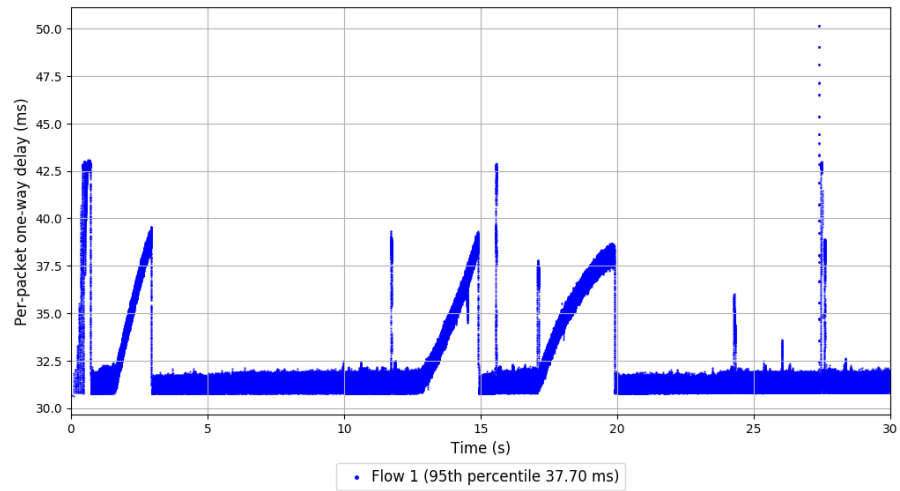
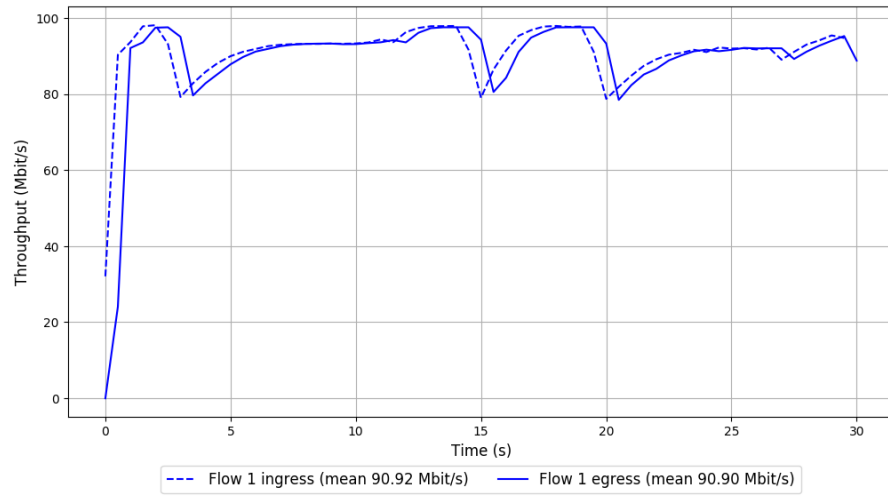


Run 3: Statistics of TCP Cubic

Start at: 2018-06-05 20:17:45
End at: 2018-06-05 20:18:15
Local clock offset: 0.721 ms
Remote clock offset: -0.057 ms

Below is generated by plot.py at 2018-06-05 23:07:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.90 Mbit/s
95th percentile per-packet one-way delay: 37.696 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 90.90 Mbit/s
95th percentile per-packet one-way delay: 37.696 ms
Loss rate: 0.22%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-06-05 20:38:46

End at: 2018-06-05 20:39:16

Local clock offset: 0.403 ms

Remote clock offset: 0.203 ms

Below is generated by plot.py at 2018-06-05 23:07:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.77 Mbit/s

95th percentile per-packet one-way delay: 36.125 ms

Loss rate: 0.25%

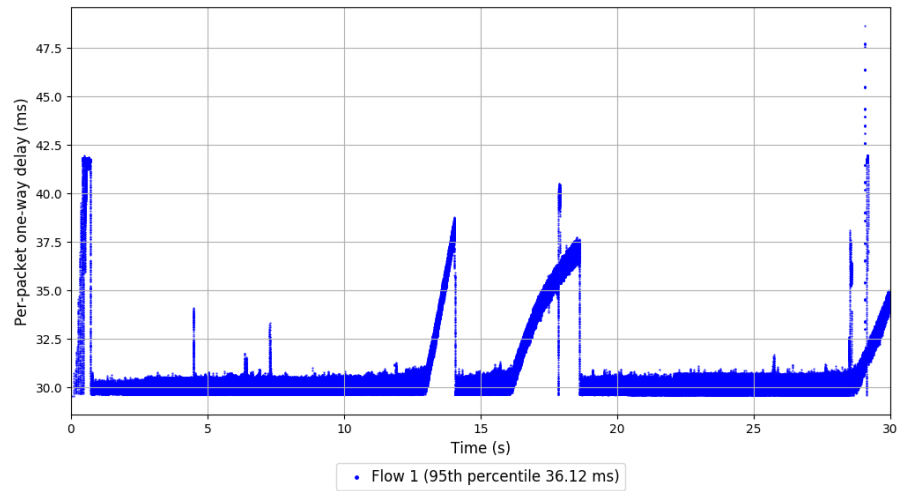
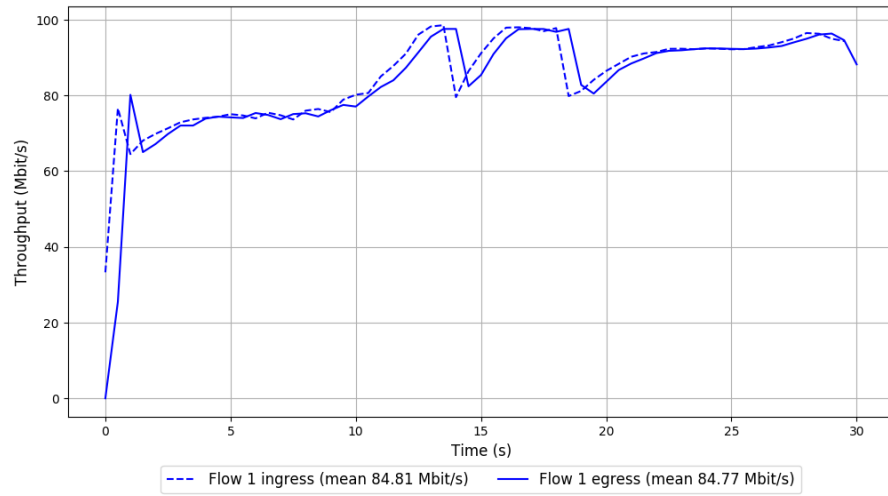
-- Flow 1:

Average throughput: 84.77 Mbit/s

95th percentile per-packet one-way delay: 36.125 ms

Loss rate: 0.25%

Run 4: Report of TCP Cubic — Data Link

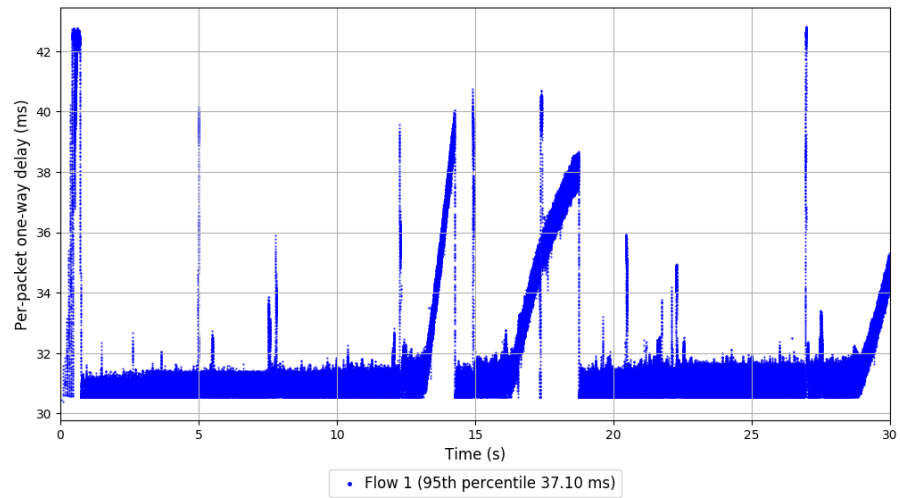
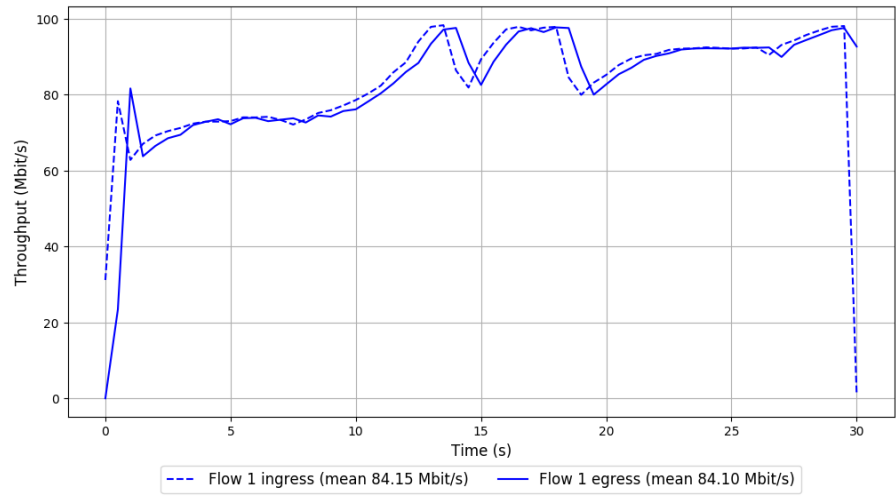


Run 5: Statistics of TCP Cubic

Start at: 2018-06-05 20:59:44
End at: 2018-06-05 21:00:14
Local clock offset: 0.482 ms
Remote clock offset: -0.762 ms

Below is generated by plot.py at 2018-06-05 23:07:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.10 Mbit/s
95th percentile per-packet one-way delay: 37.096 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 84.10 Mbit/s
95th percentile per-packet one-way delay: 37.096 ms
Loss rate: 0.26%

Run 5: Report of TCP Cubic — Data Link

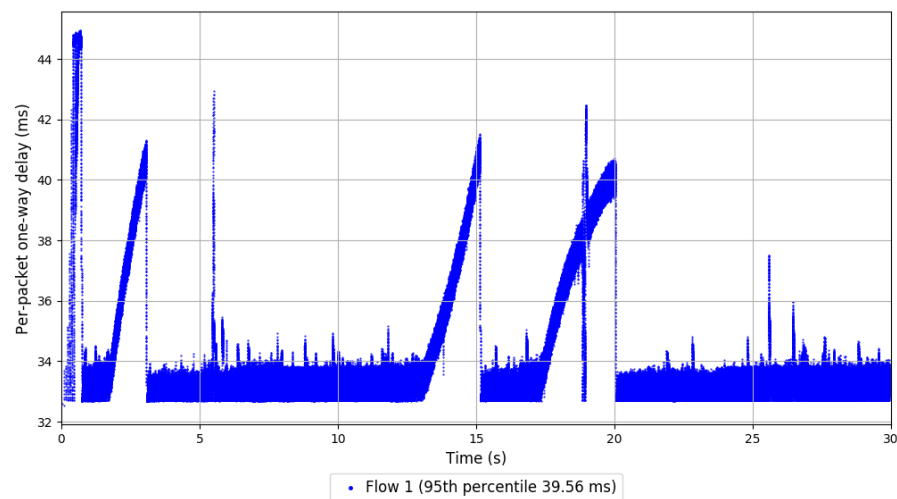
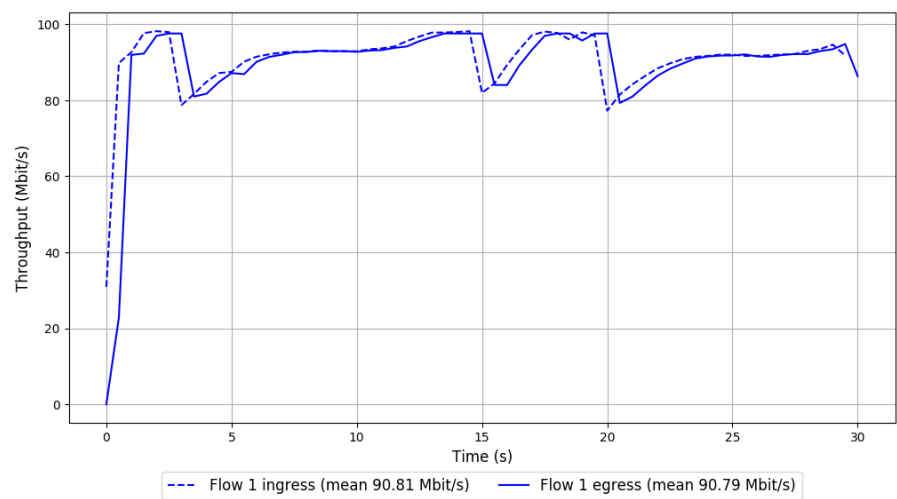


Run 6: Statistics of TCP Cubic

Start at: 2018-06-05 21:20:43
End at: 2018-06-05 21:21:13
Local clock offset: 0.438 ms
Remote clock offset: -2.384 ms

Below is generated by plot.py at 2018-06-05 23:07:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.79 Mbit/s
95th percentile per-packet one-way delay: 39.556 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 90.79 Mbit/s
95th percentile per-packet one-way delay: 39.556 ms
Loss rate: 0.22%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-06-05 21:41:48

End at: 2018-06-05 21:42:18

Local clock offset: 0.179 ms

Remote clock offset: 0.555 ms

Below is generated by plot.py at 2018-06-05 23:07:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.14 Mbit/s

95th percentile per-packet one-way delay: 36.603 ms

Loss rate: 0.25%

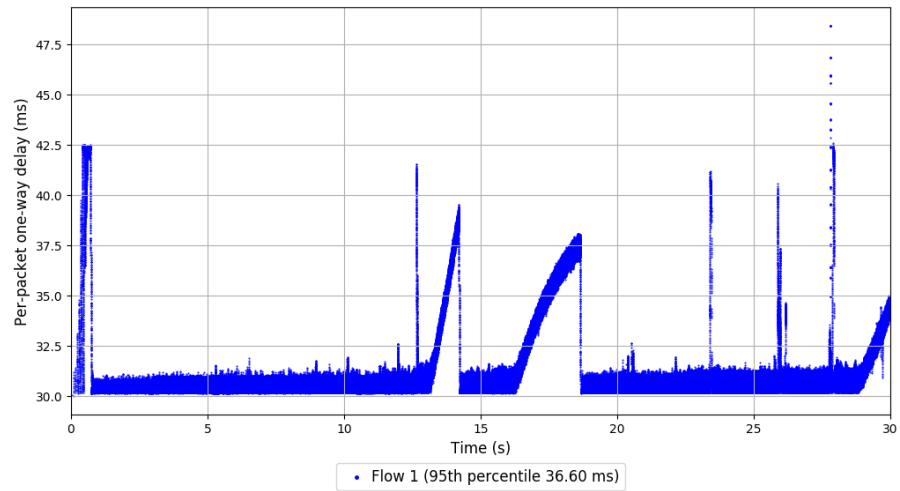
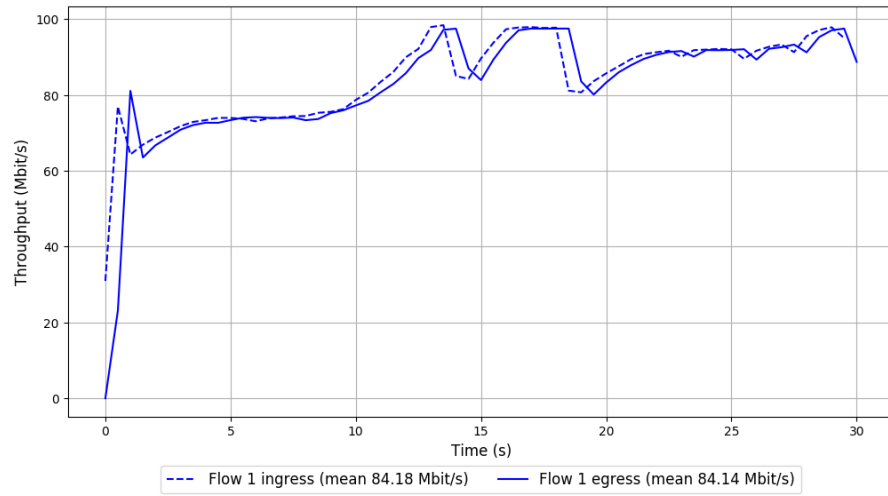
-- Flow 1:

Average throughput: 84.14 Mbit/s

95th percentile per-packet one-way delay: 36.603 ms

Loss rate: 0.25%

Run 7: Report of TCP Cubic — Data Link

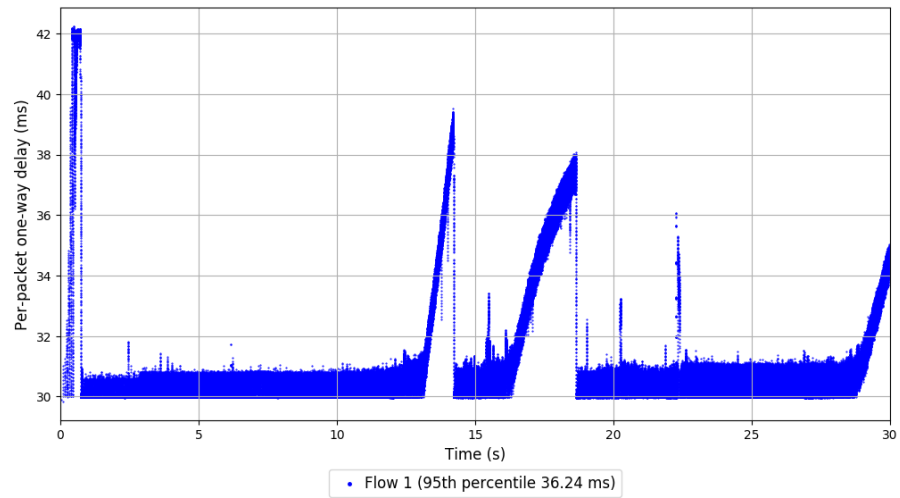
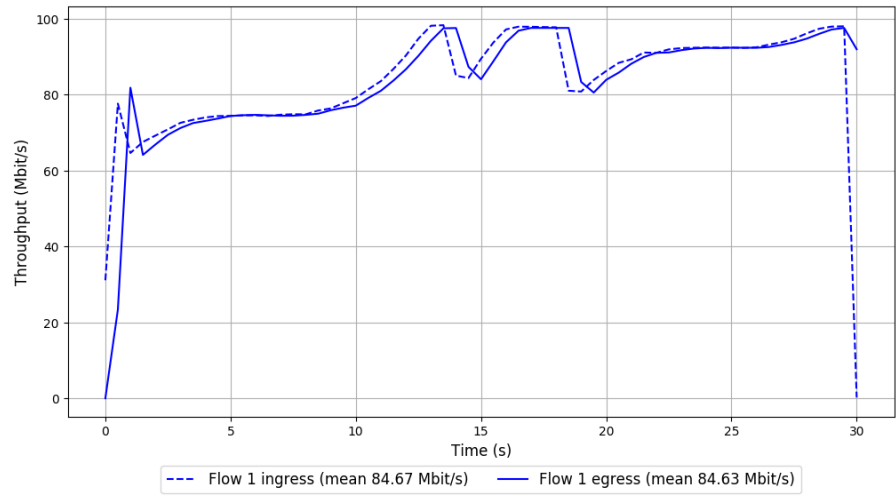


Run 8: Statistics of TCP Cubic

Start at: 2018-06-05 22:02:42
End at: 2018-06-05 22:03:12
Local clock offset: -0.079 ms
Remote clock offset: -0.517 ms

Below is generated by plot.py at 2018-06-05 23:07:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.63 Mbit/s
95th percentile per-packet one-way delay: 36.236 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 84.63 Mbit/s
95th percentile per-packet one-way delay: 36.236 ms
Loss rate: 0.25%

Run 8: Report of TCP Cubic — Data Link

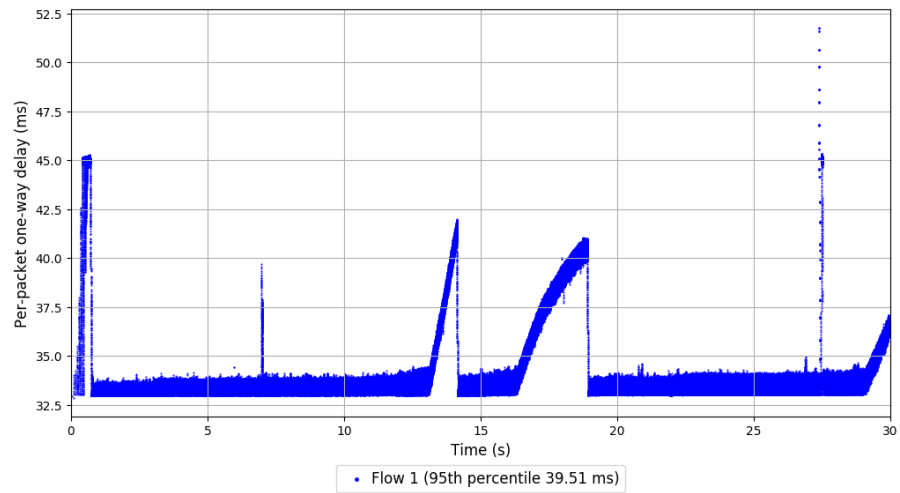
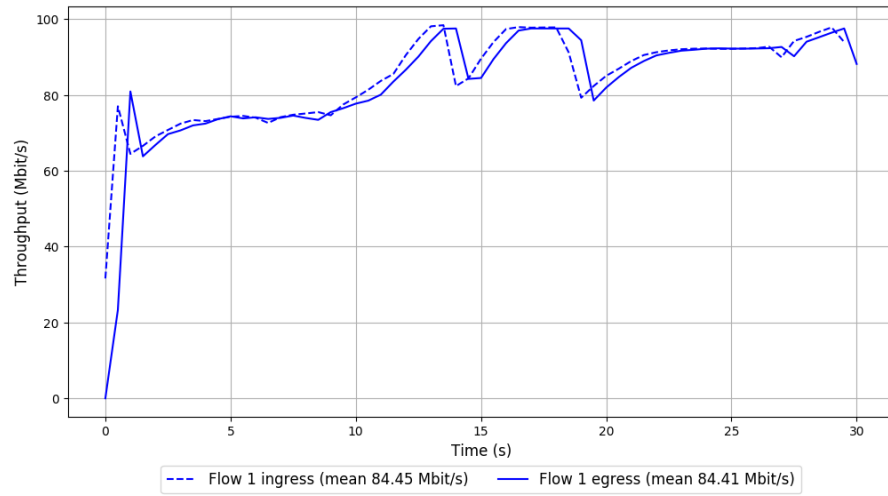


Run 9: Statistics of TCP Cubic

Start at: 2018-06-05 22:23:40
End at: 2018-06-05 22:24:10
Local clock offset: 0.21 ms
Remote clock offset: -3.007 ms

Below is generated by plot.py at 2018-06-05 23:07:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.41 Mbit/s
95th percentile per-packet one-way delay: 39.512 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 84.41 Mbit/s
95th percentile per-packet one-way delay: 39.512 ms
Loss rate: 0.25%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-06-05 22:44:36

End at: 2018-06-05 22:45:06

Local clock offset: 0.393 ms

Remote clock offset: -2.347 ms

Below is generated by plot.py at 2018-06-05 23:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.78 Mbit/s

95th percentile per-packet one-way delay: 39.285 ms

Loss rate: 0.22%

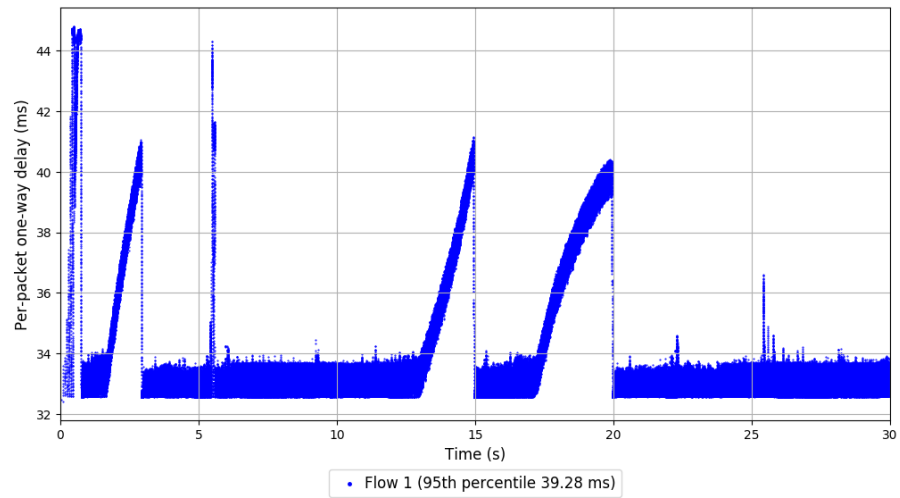
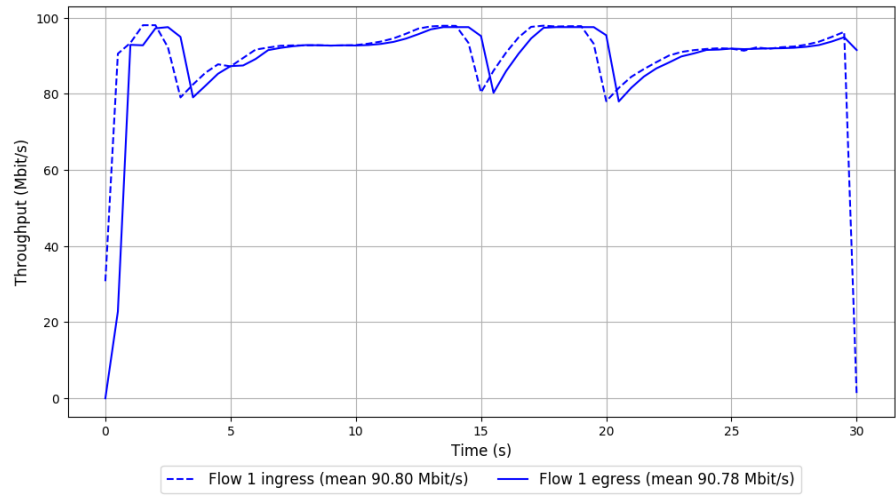
-- Flow 1:

Average throughput: 90.78 Mbit/s

95th percentile per-packet one-way delay: 39.285 ms

Loss rate: 0.22%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-06-05 19:30:38

End at: 2018-06-05 19:31:08

Local clock offset: 1.045 ms

Remote clock offset: -2.175 ms

Below is generated by plot.py at 2018-06-05 23:08:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.28 Mbit/s

95th percentile per-packet one-way delay: 43.845 ms

Loss rate: 0.23%

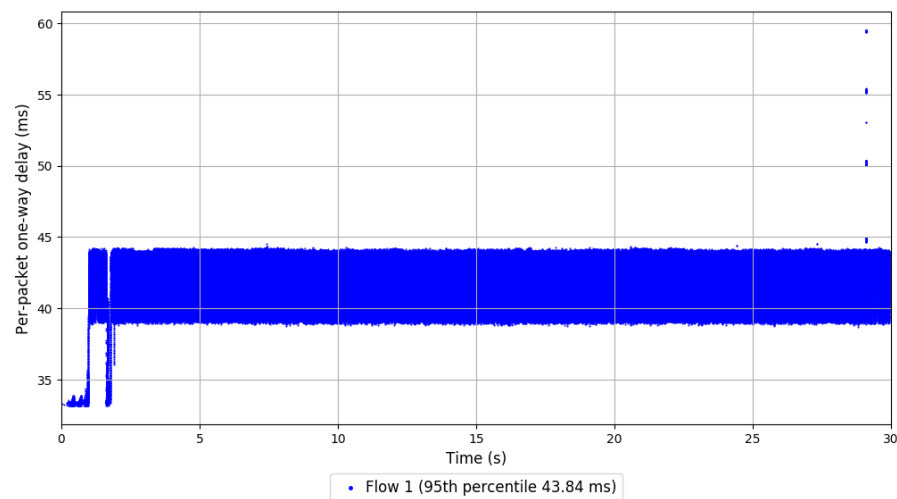
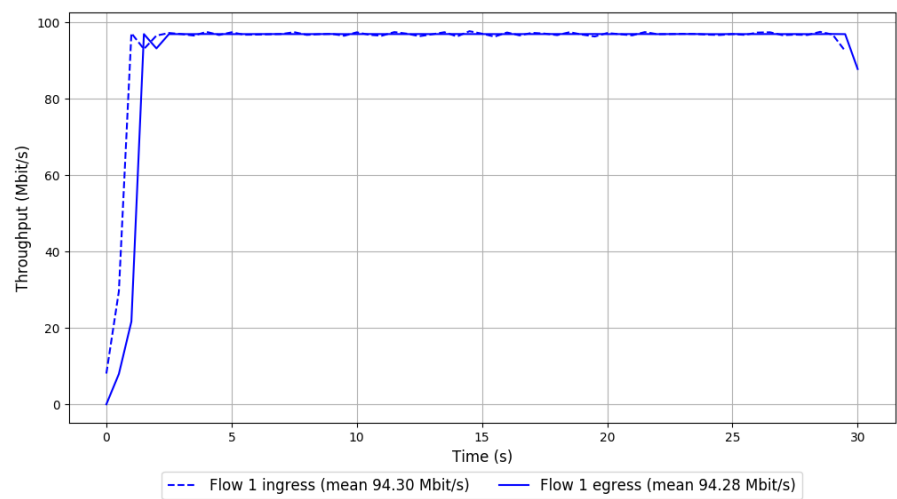
-- Flow 1:

Average throughput: 94.28 Mbit/s

95th percentile per-packet one-way delay: 43.845 ms

Loss rate: 0.23%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-06-05 19:51:33

End at: 2018-06-05 19:52:03

Local clock offset: 1.33 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2018-06-05 23:08:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.25 Mbit/s

95th percentile per-packet one-way delay: 41.750 ms

Loss rate: 0.23%

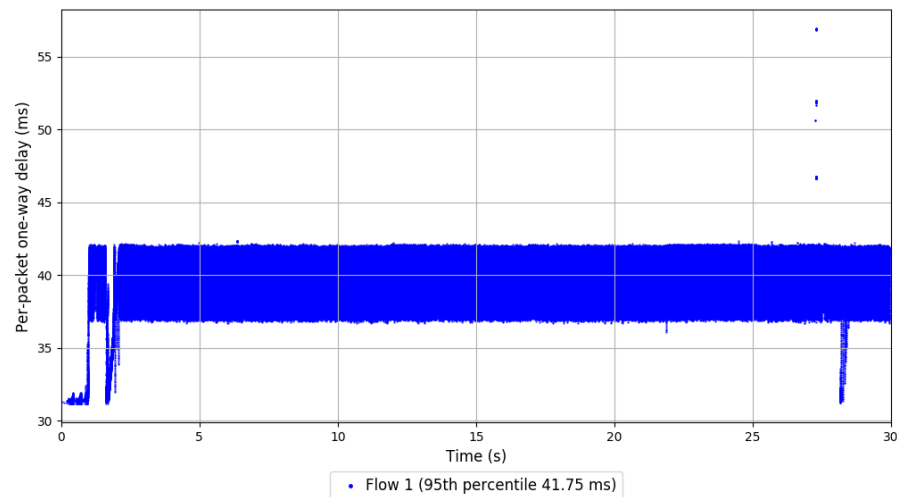
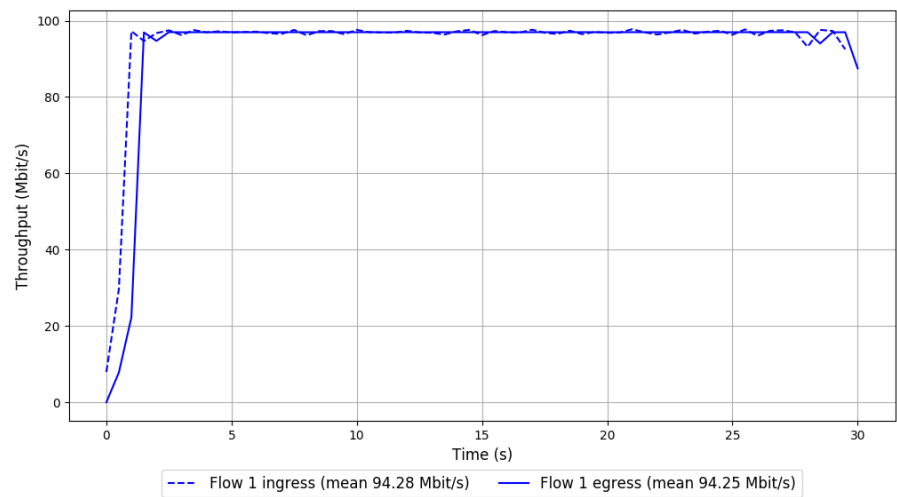
-- Flow 1:

Average throughput: 94.25 Mbit/s

95th percentile per-packet one-way delay: 41.750 ms

Loss rate: 0.23%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-06-05 20:12:29

End at: 2018-06-05 20:12:59

Local clock offset: 0.84 ms

Remote clock offset: 0.03 ms

Below is generated by plot.py at 2018-06-05 23:09:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.67 Mbit/s

95th percentile per-packet one-way delay: 36.790 ms

Loss rate: 0.22%

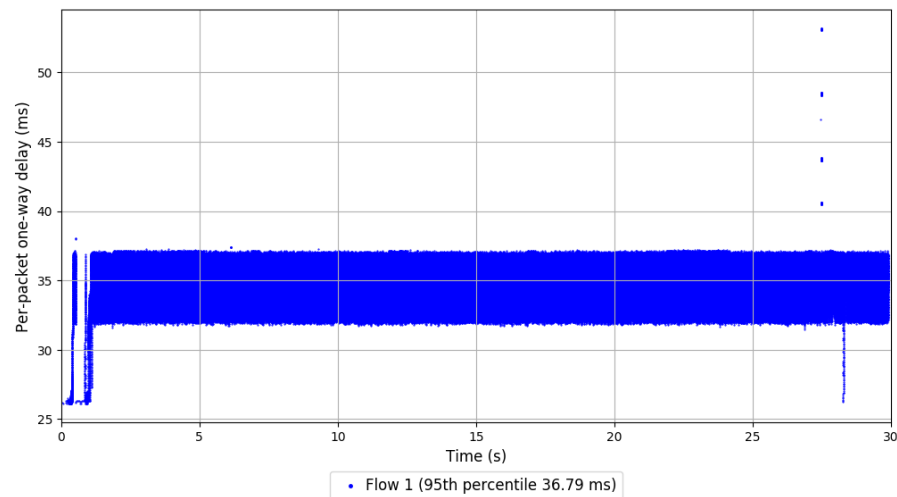
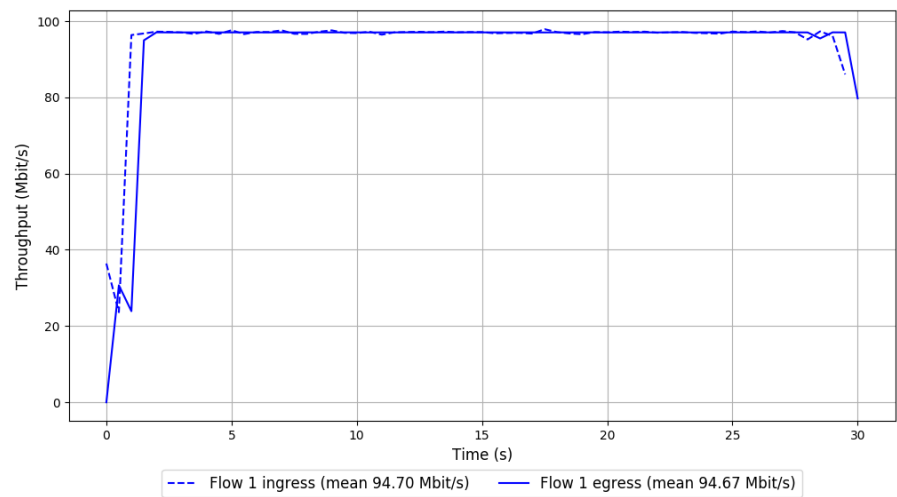
-- Flow 1:

Average throughput: 94.67 Mbit/s

95th percentile per-packet one-way delay: 36.790 ms

Loss rate: 0.22%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-06-05 20:33:30

End at: 2018-06-05 20:34:00

Local clock offset: 0.476 ms

Remote clock offset: 0.222 ms

Below is generated by plot.py at 2018-06-05 23:09:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.76 Mbit/s

95th percentile per-packet one-way delay: 36.188 ms

Loss rate: 0.22%

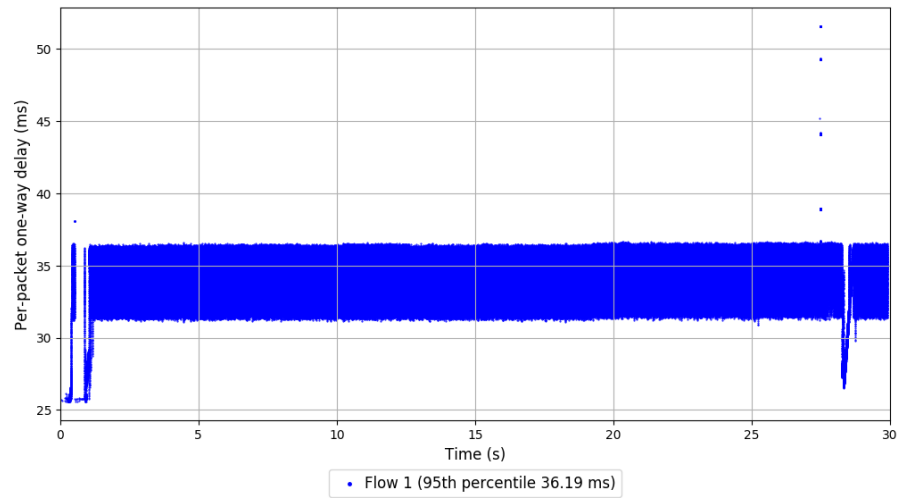
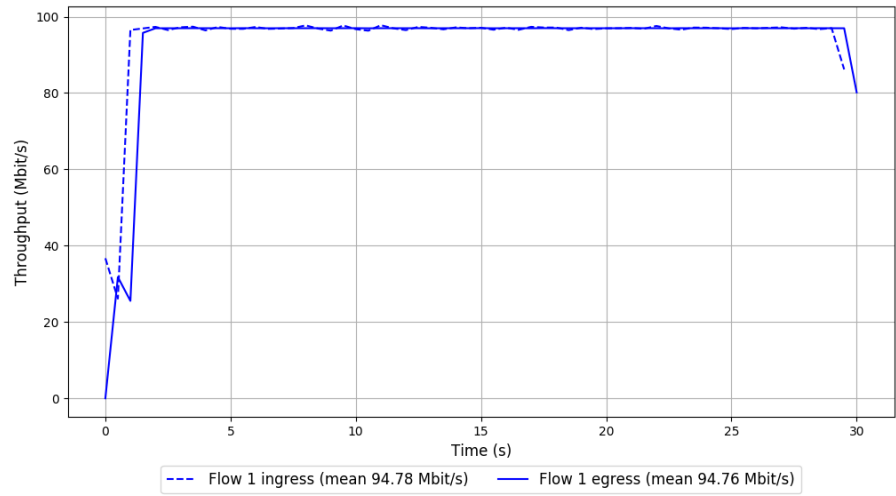
-- Flow 1:

Average throughput: 94.76 Mbit/s

95th percentile per-packet one-way delay: 36.188 ms

Loss rate: 0.22%

Run 4: Report of FillP — Data Link

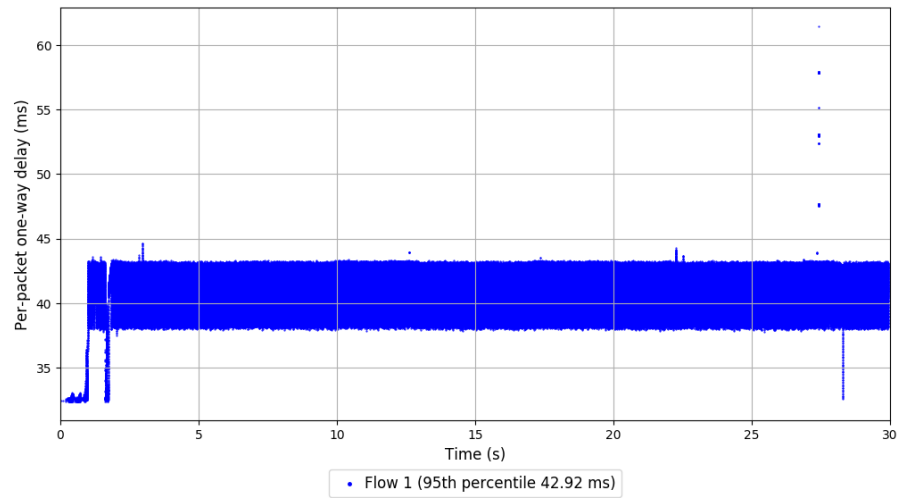
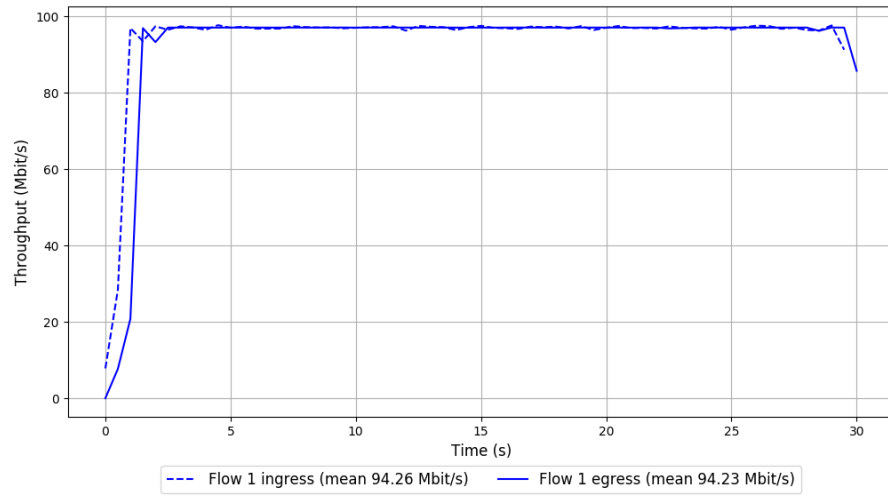


Run 5: Statistics of FillP

Start at: 2018-06-05 20:54:30
End at: 2018-06-05 20:55:00
Local clock offset: 0.415 ms
Remote clock offset: -2.744 ms

Below is generated by plot.py at 2018-06-05 23:09:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.23 Mbit/s
95th percentile per-packet one-way delay: 42.924 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 94.23 Mbit/s
95th percentile per-packet one-way delay: 42.924 ms
Loss rate: 0.24%

Run 5: Report of FillP — Data Link

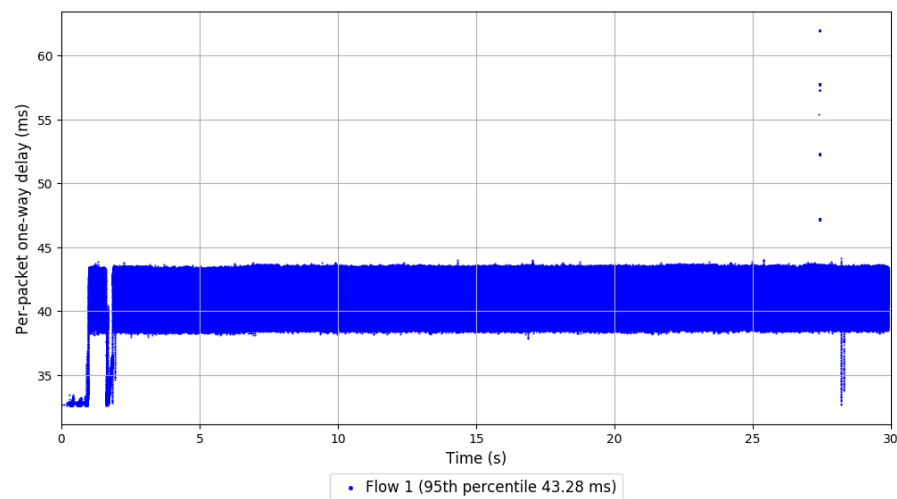
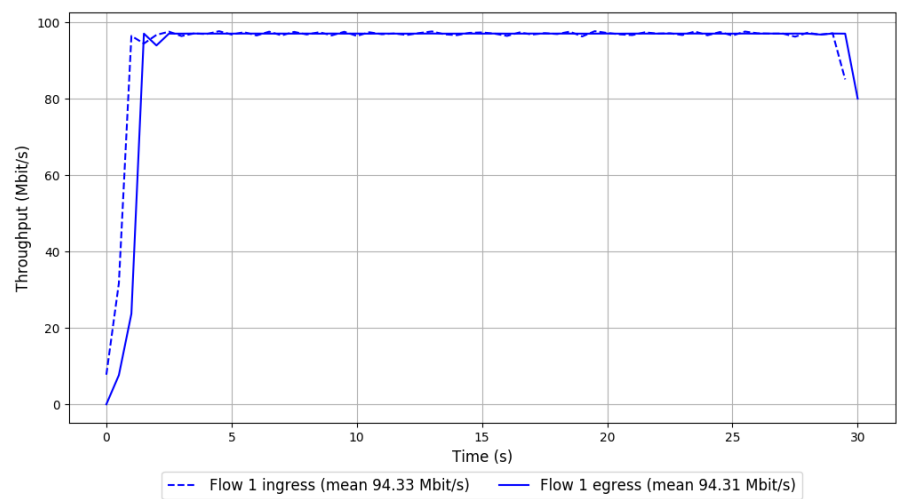


Run 6: Statistics of FillP

Start at: 2018-06-05 21:15:25
End at: 2018-06-05 21:15:55
Local clock offset: 0.433 ms
Remote clock offset: -2.675 ms

Below is generated by plot.py at 2018-06-05 23:09:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.31 Mbit/s
95th percentile per-packet one-way delay: 43.280 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 94.31 Mbit/s
95th percentile per-packet one-way delay: 43.280 ms
Loss rate: 0.23%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-06-05 21:36:30

End at: 2018-06-05 21:37:00

Local clock offset: 0.319 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-06-05 23:09:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.68 Mbit/s

95th percentile per-packet one-way delay: 36.074 ms

Loss rate: 0.23%

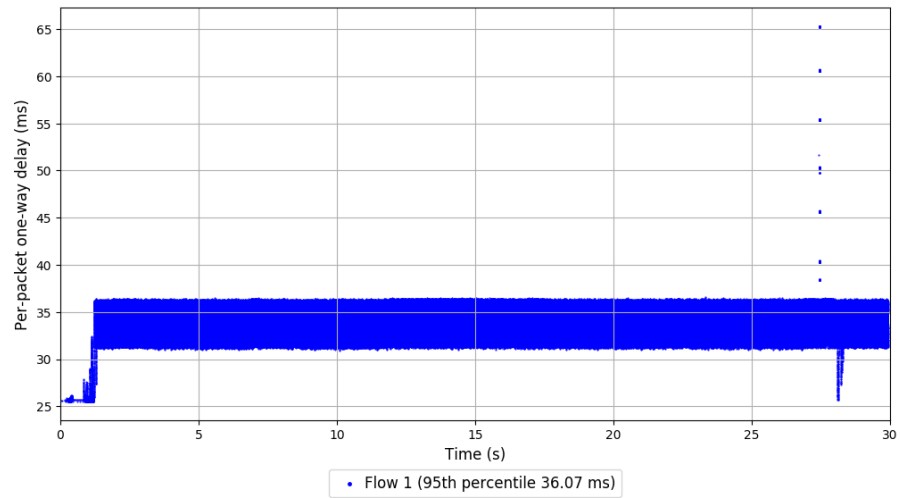
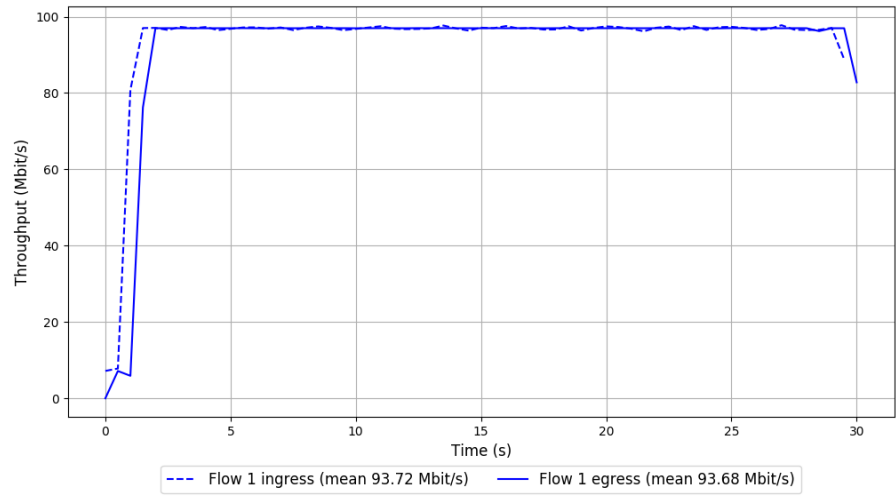
-- Flow 1:

Average throughput: 93.68 Mbit/s

95th percentile per-packet one-way delay: 36.074 ms

Loss rate: 0.23%

Run 7: Report of FillP — Data Link

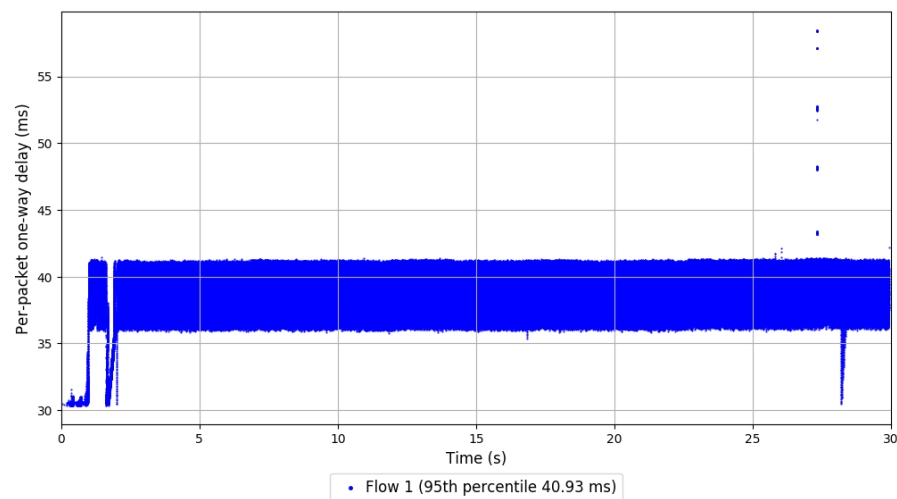
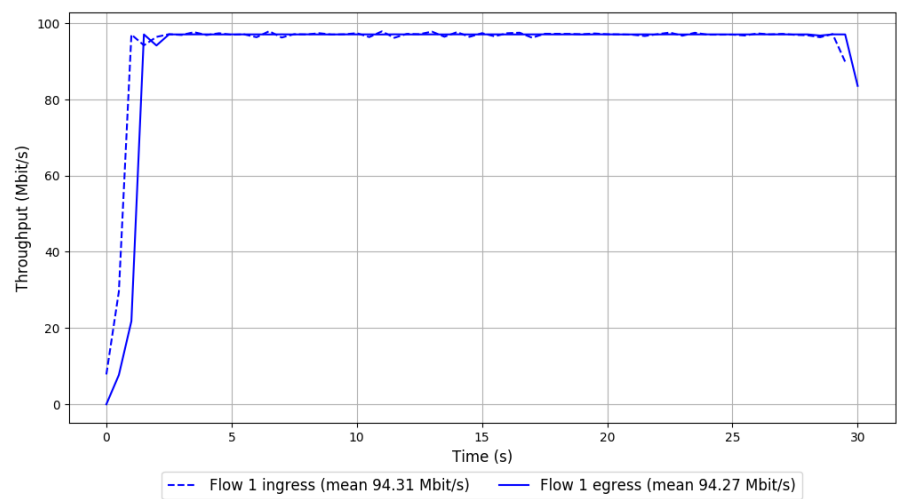


Run 8: Statistics of FillP

Start at: 2018-06-05 21:57:28
End at: 2018-06-05 21:57:58
Local clock offset: 0.063 ms
Remote clock offset: -0.816 ms

Below is generated by plot.py at 2018-06-05 23:09:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.27 Mbit/s
95th percentile per-packet one-way delay: 40.933 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 94.27 Mbit/s
95th percentile per-packet one-way delay: 40.933 ms
Loss rate: 0.24%

Run 8: Report of FillP — Data Link

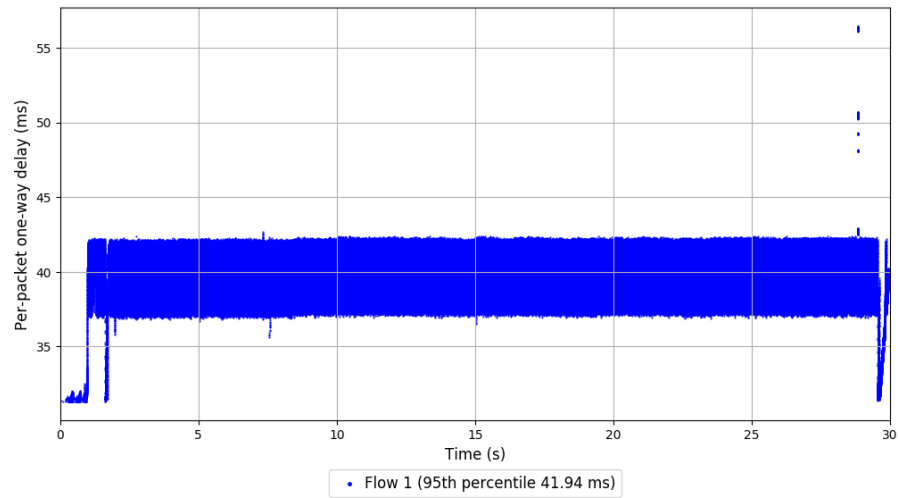
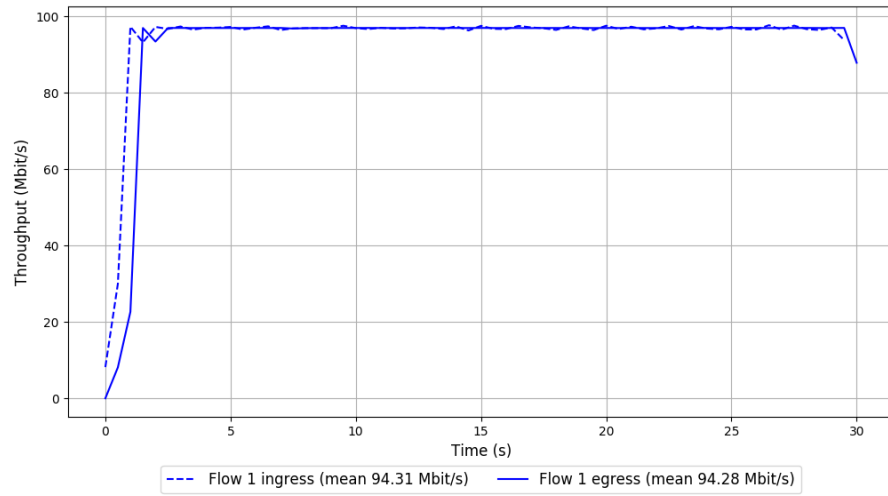


Run 9: Statistics of FillP

Start at: 2018-06-05 22:18:25
End at: 2018-06-05 22:18:55
Local clock offset: 0.196 ms
Remote clock offset: -1.156 ms

Below is generated by plot.py at 2018-06-05 23:10:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.28 Mbit/s
95th percentile per-packet one-way delay: 41.936 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 94.28 Mbit/s
95th percentile per-packet one-way delay: 41.936 ms
Loss rate: 0.24%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-06-05 22:39:22

End at: 2018-06-05 22:39:52

Local clock offset: 0.235 ms

Remote clock offset: 0.061 ms

Below is generated by plot.py at 2018-06-05 23:10:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.29 Mbit/s

95th percentile per-packet one-way delay: 40.649 ms

Loss rate: 0.24%

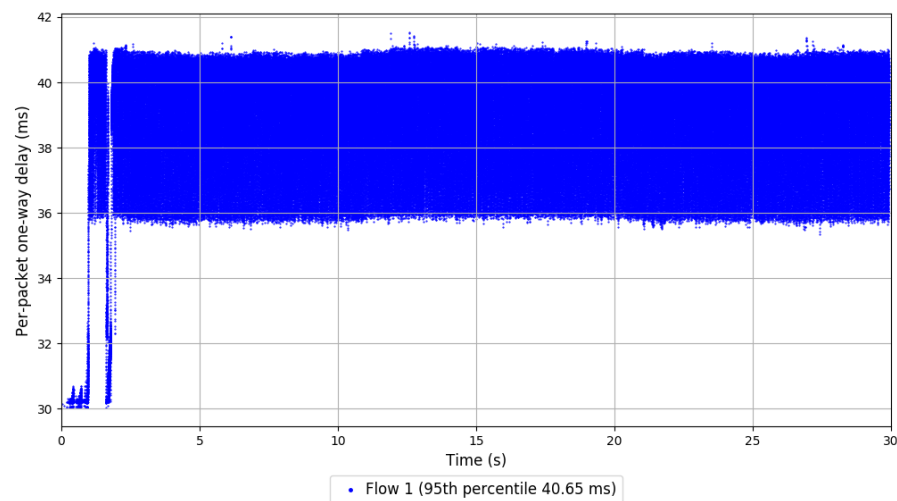
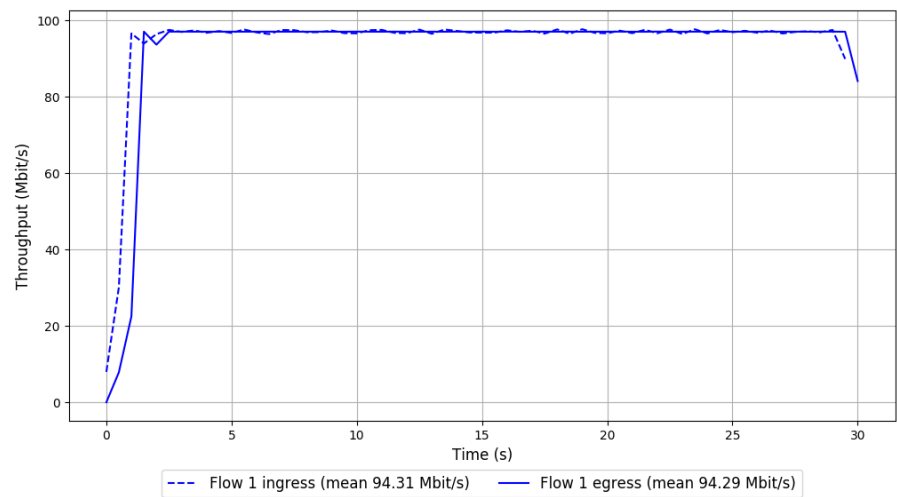
-- Flow 1:

Average throughput: 94.29 Mbit/s

95th percentile per-packet one-way delay: 40.649 ms

Loss rate: 0.24%

Run 10: Report of FillP — Data Link

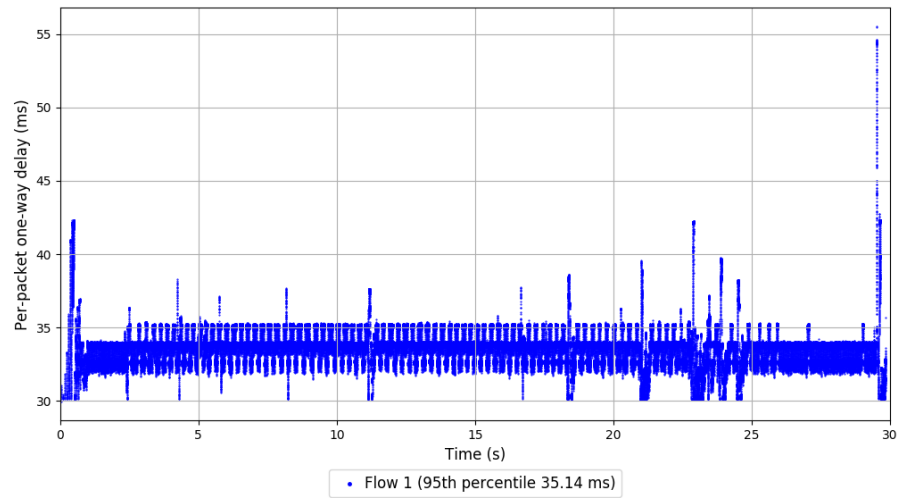
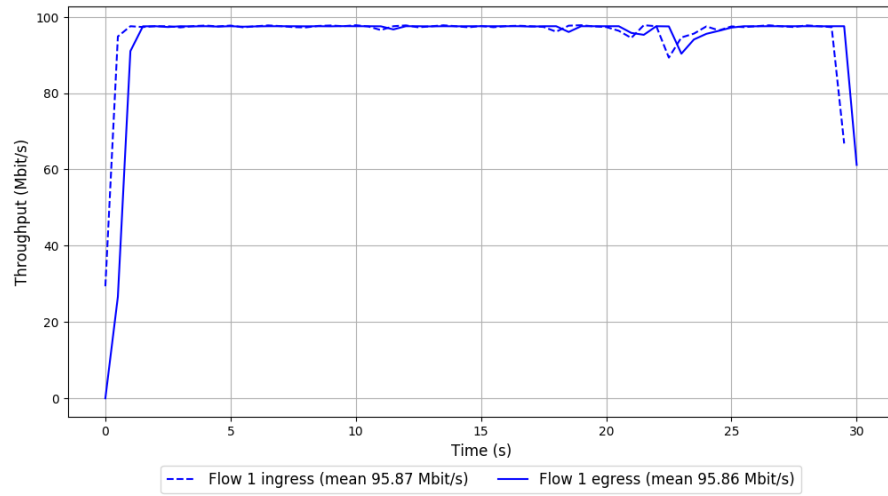


```
Run 1: Statistics of Indigo

Start at: 2018-06-05 19:42:28
End at: 2018-06-05 19:42:58
Local clock offset: 1.311 ms
Remote clock offset: 0.277 ms

# Below is generated by plot.py at 2018-06-05 23:10:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.86 Mbit/s
95th percentile per-packet one-way delay: 35.136 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 95.86 Mbit/s
95th percentile per-packet one-way delay: 35.136 ms
Loss rate: 0.21%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-05 20:03:24

End at: 2018-06-05 20:03:54

Local clock offset: 1.5 ms

Remote clock offset: 0.501 ms

Below is generated by plot.py at 2018-06-05 23:10:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.80 Mbit/s

95th percentile per-packet one-way delay: 28.703 ms

Loss rate: 0.20%

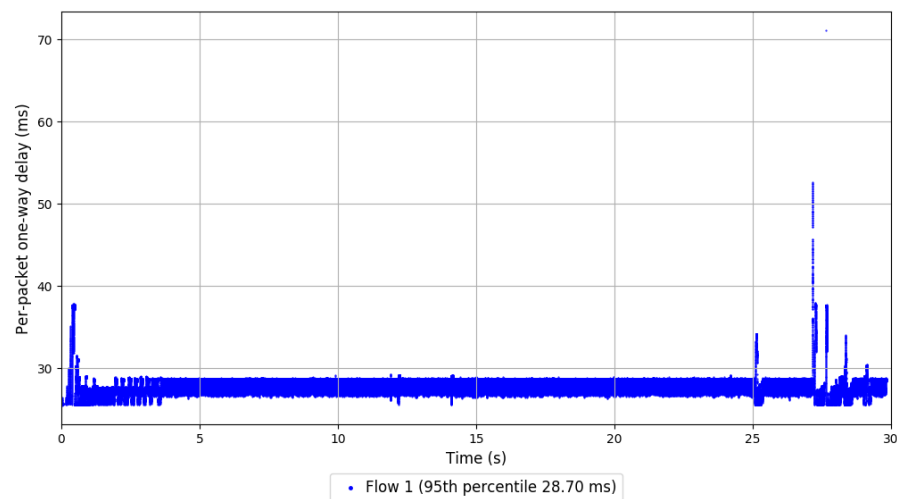
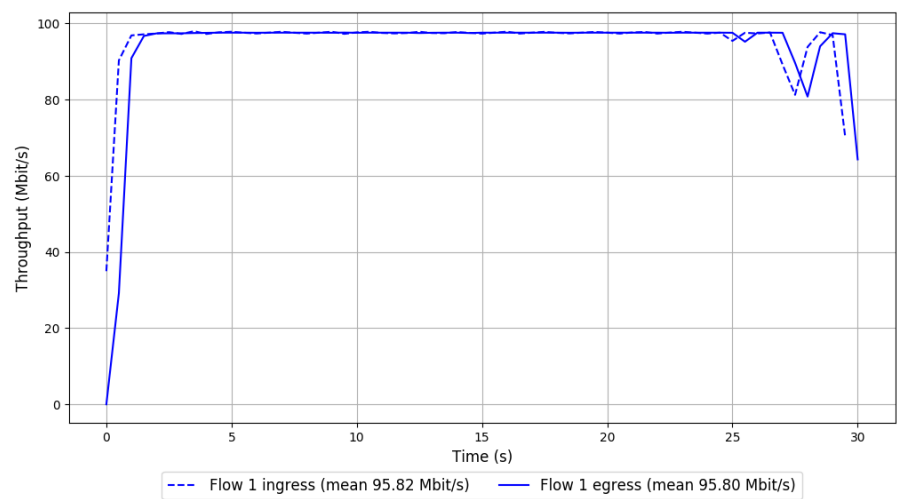
-- Flow 1:

Average throughput: 95.80 Mbit/s

95th percentile per-packet one-way delay: 28.703 ms

Loss rate: 0.20%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-06-05 20:24:23

End at: 2018-06-05 20:24:53

Local clock offset: 0.58 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-06-05 23:10:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.98 Mbit/s

95th percentile per-packet one-way delay: 33.771 ms

Loss rate: 0.21%

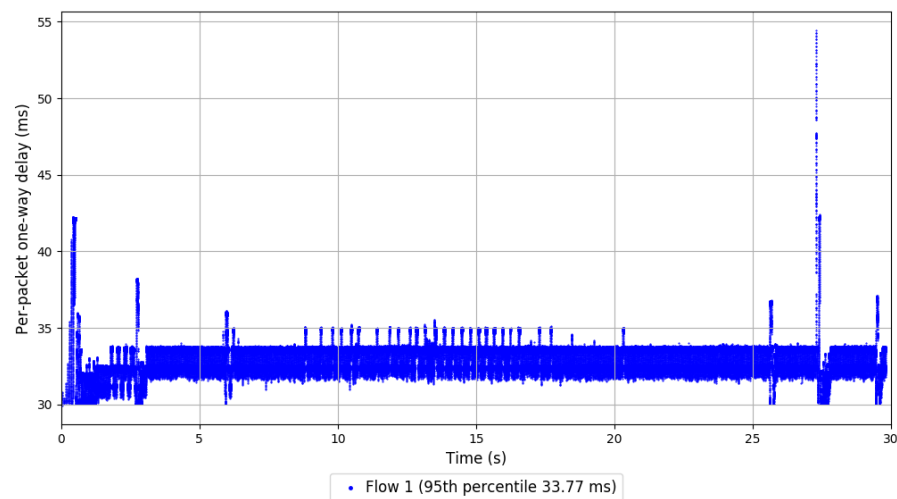
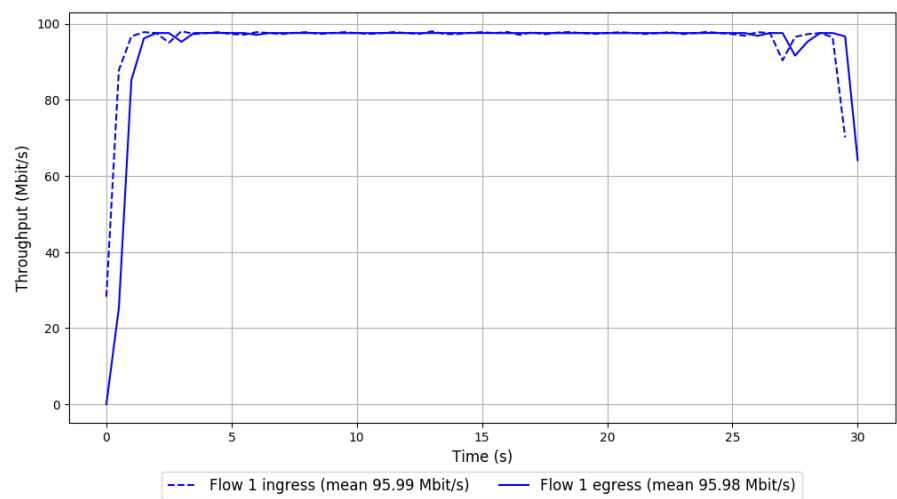
-- Flow 1:

Average throughput: 95.98 Mbit/s

95th percentile per-packet one-way delay: 33.771 ms

Loss rate: 0.21%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-06-05 20:45:24

End at: 2018-06-05 20:45:54

Local clock offset: 0.494 ms

Remote clock offset: 0.088 ms

Below is generated by plot.py at 2018-06-05 23:10:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 29.550 ms

Loss rate: 0.20%

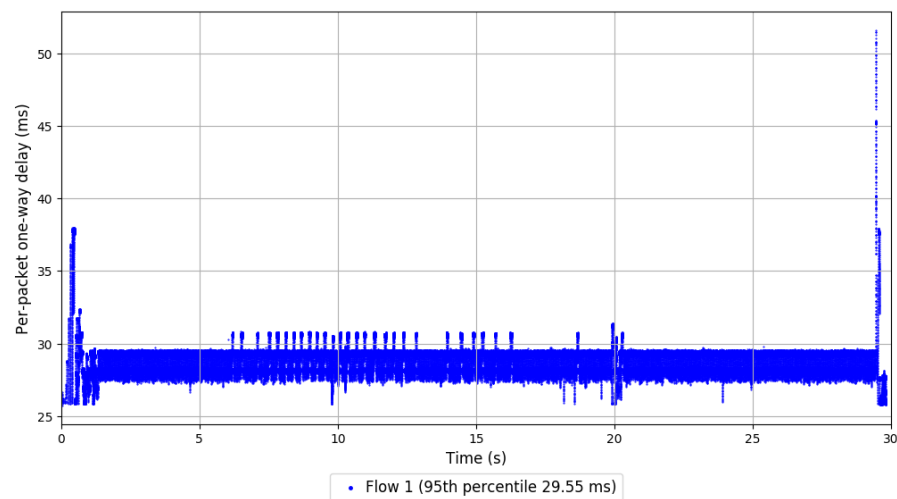
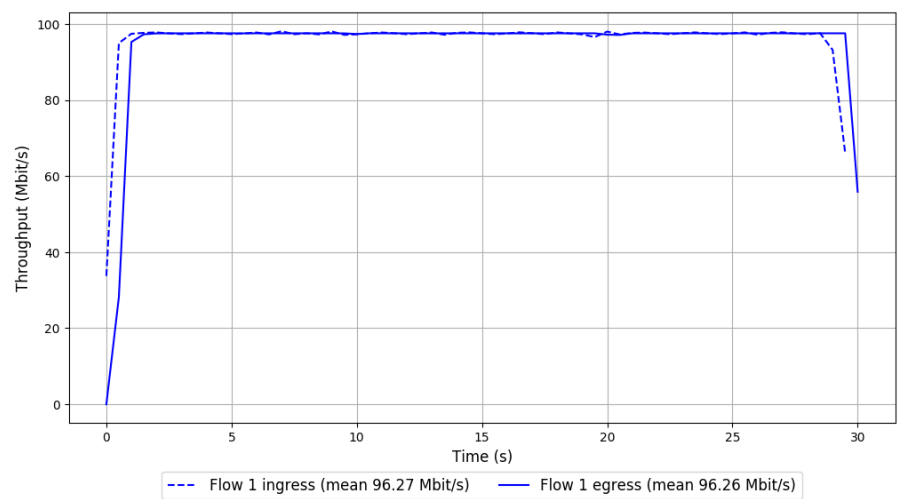
-- Flow 1:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 29.550 ms

Loss rate: 0.20%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-06-05 21:06:22

End at: 2018-06-05 21:06:52

Local clock offset: 0.477 ms

Remote clock offset: -2.801 ms

Below is generated by plot.py at 2018-06-05 23:10:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.73 Mbit/s

95th percentile per-packet one-way delay: 36.314 ms

Loss rate: 0.21%

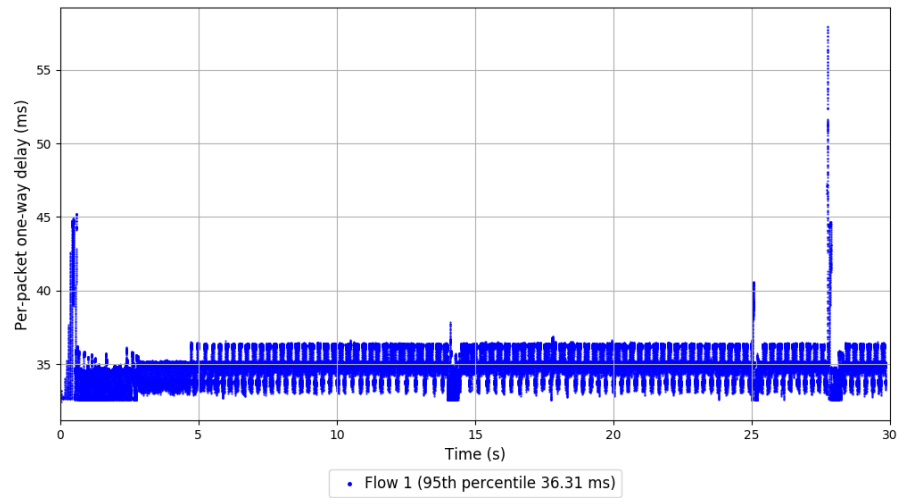
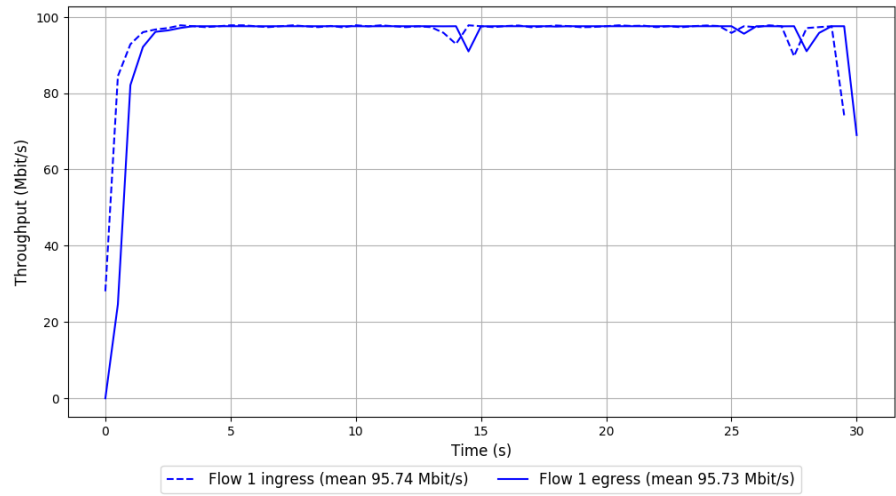
-- Flow 1:

Average throughput: 95.73 Mbit/s

95th percentile per-packet one-way delay: 36.314 ms

Loss rate: 0.21%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-06-05 21:27:23

End at: 2018-06-05 21:27:53

Local clock offset: 0.517 ms

Remote clock offset: 0.279 ms

Below is generated by plot.py at 2018-06-05 23:10:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.84 Mbit/s

95th percentile per-packet one-way delay: 33.315 ms

Loss rate: 0.21%

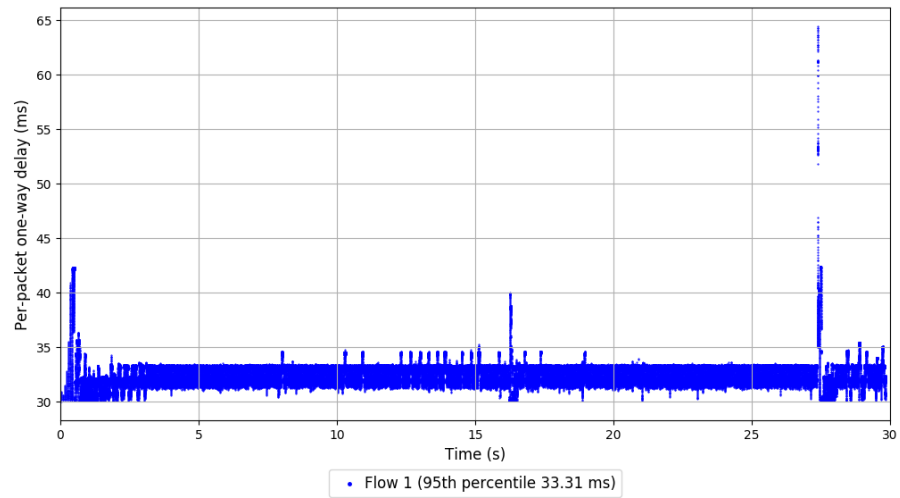
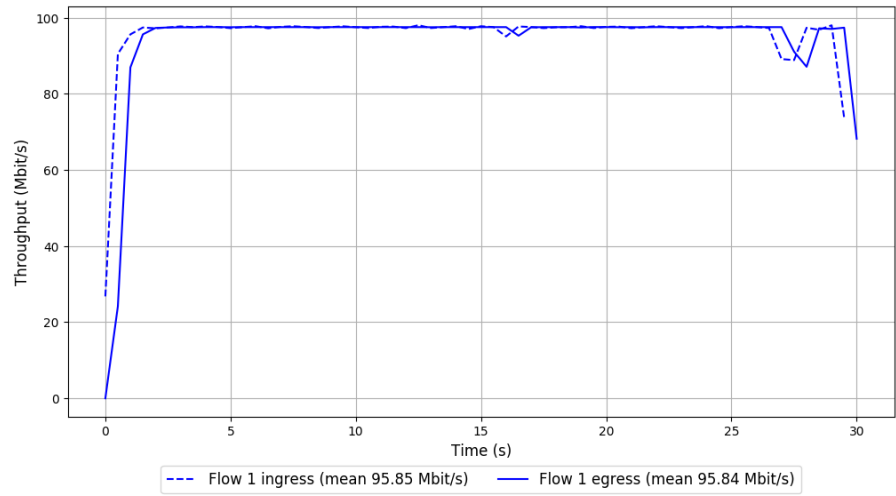
-- Flow 1:

Average throughput: 95.84 Mbit/s

95th percentile per-packet one-way delay: 33.315 ms

Loss rate: 0.21%

Run 6: Report of Indigo — Data Link

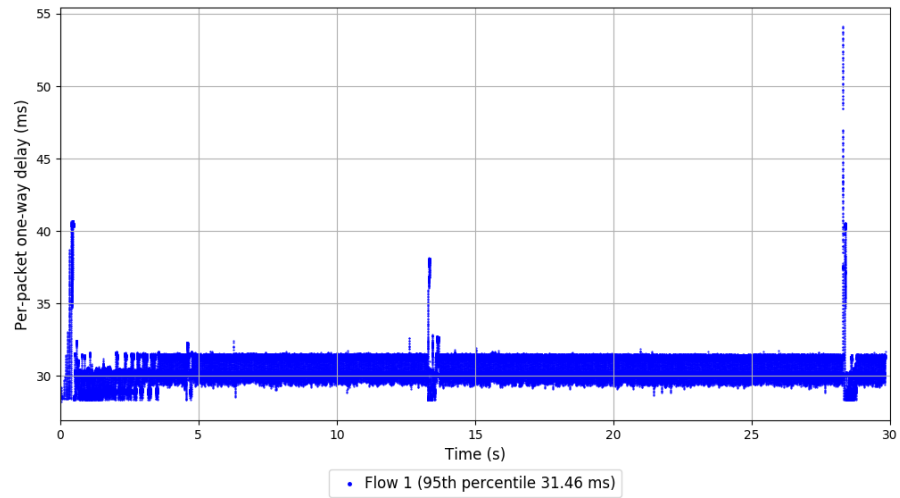
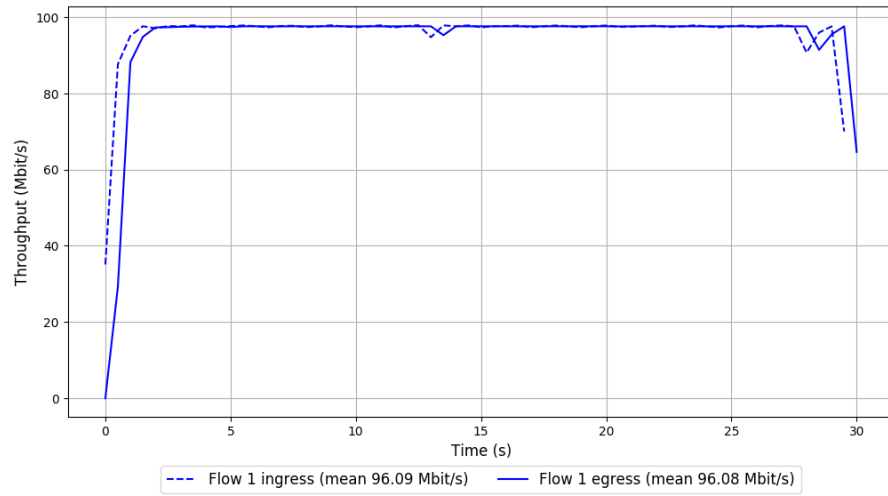


Run 7: Statistics of Indigo

Start at: 2018-06-05 21:48:24
End at: 2018-06-05 21:48:54
Local clock offset: 0.152 ms
Remote clock offset: -2.211 ms

Below is generated by plot.py at 2018-06-05 23:11:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.08 Mbit/s
95th percentile per-packet one-way delay: 31.458 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 96.08 Mbit/s
95th percentile per-packet one-way delay: 31.458 ms
Loss rate: 0.20%

Run 7: Report of Indigo — Data Link

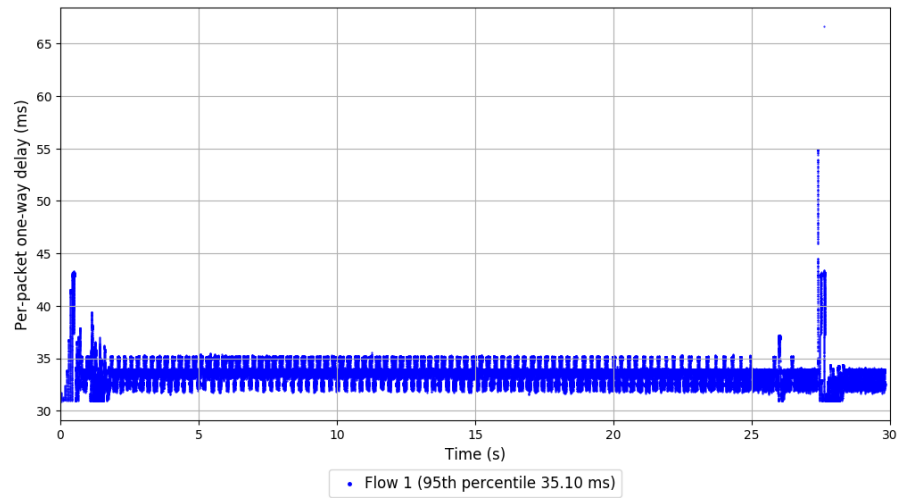
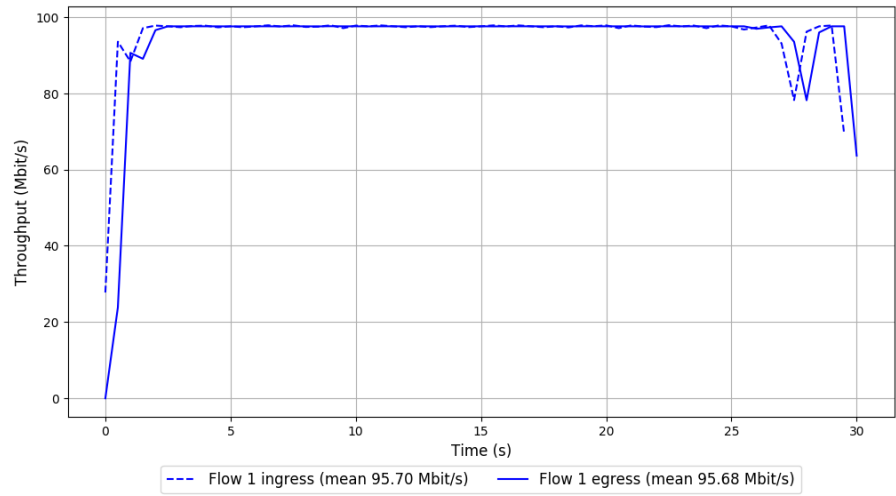


Run 8: Statistics of Indigo

Start at: 2018-06-05 22:09:19
End at: 2018-06-05 22:09:49
Local clock offset: 0.128 ms
Remote clock offset: -0.604 ms

Below is generated by plot.py at 2018-06-05 23:11:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 35.098 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 35.098 ms
Loss rate: 0.21%

Run 8: Report of Indigo — Data Link

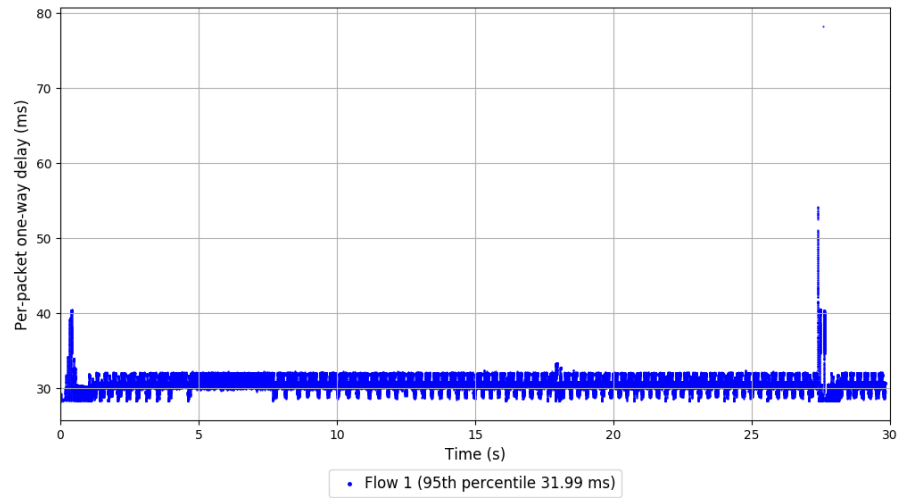
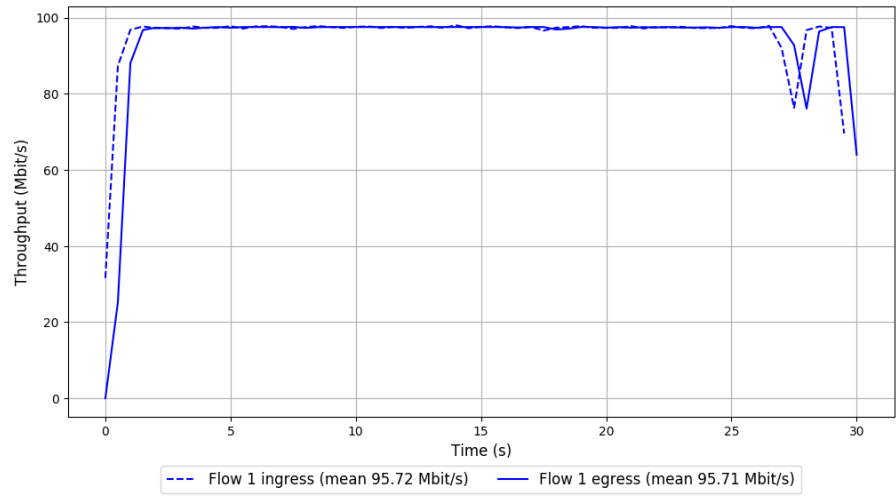


Run 9: Statistics of Indigo

Start at: 2018-06-05 22:30:17
End at: 2018-06-05 22:30:47
Local clock offset: 0.191 ms
Remote clock offset: -2.614 ms

Below is generated by plot.py at 2018-06-05 23:11:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 31.990 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 31.990 ms
Loss rate: 0.20%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-06-05 22:51:11

End at: 2018-06-05 22:51:41

Local clock offset: 0.35 ms

Remote clock offset: 0.256 ms

Below is generated by plot.py at 2018-06-05 23:11:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.51 Mbit/s

95th percentile per-packet one-way delay: 33.859 ms

Loss rate: 0.22%

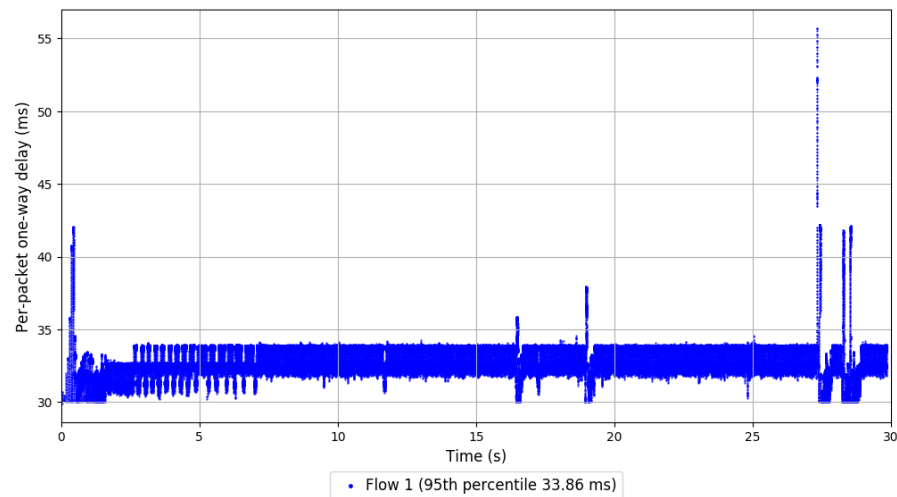
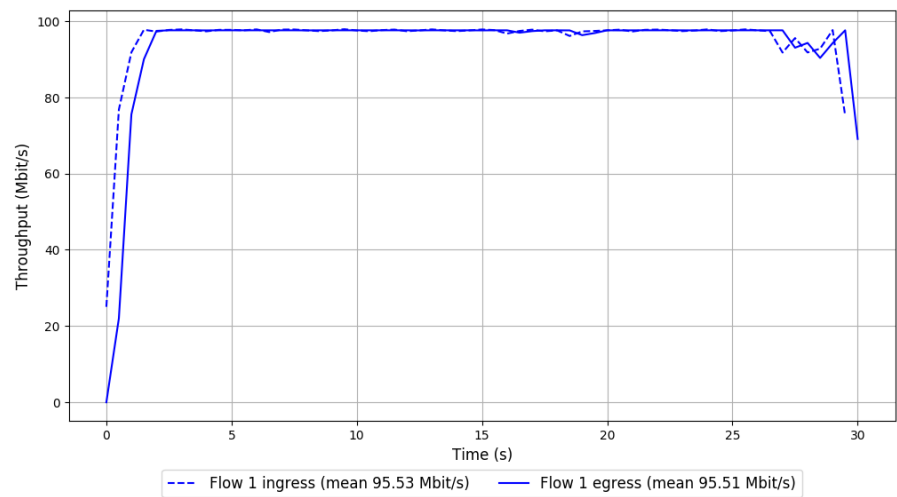
-- Flow 1:

Average throughput: 95.51 Mbit/s

95th percentile per-packet one-way delay: 33.859 ms

Loss rate: 0.22%

Run 10: Report of Indigo — Data Link

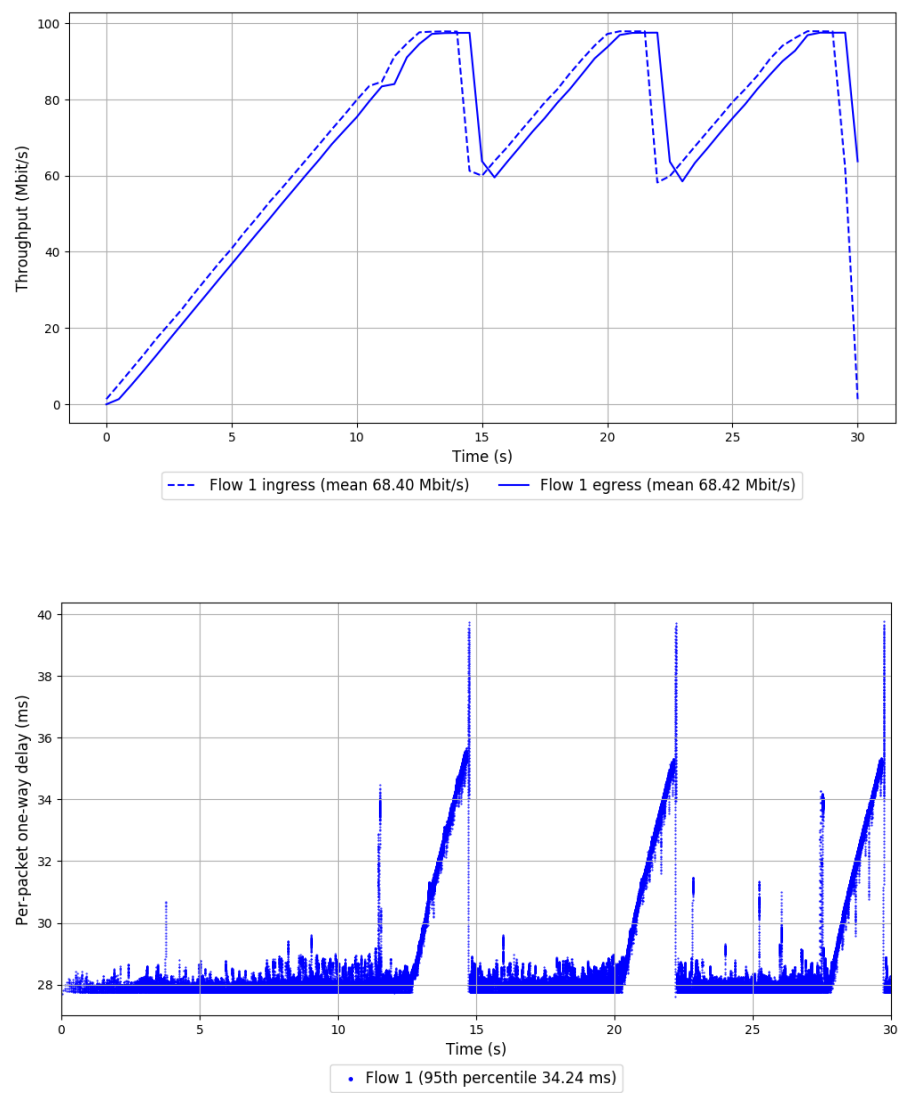


Run 1: Statistics of LEDBAT

Start at: 2018-06-05 19:45:07
End at: 2018-06-05 19:45:37
Local clock offset: 1.341 ms
Remote clock offset: -2.114 ms

Below is generated by plot.py at 2018-06-05 23:11:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 68.42 Mbit/s
95th percentile per-packet one-way delay: 34.238 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 68.42 Mbit/s
95th percentile per-packet one-way delay: 34.238 ms
Loss rate: 0.16%

Run 1: Report of LEDBAT — Data Link

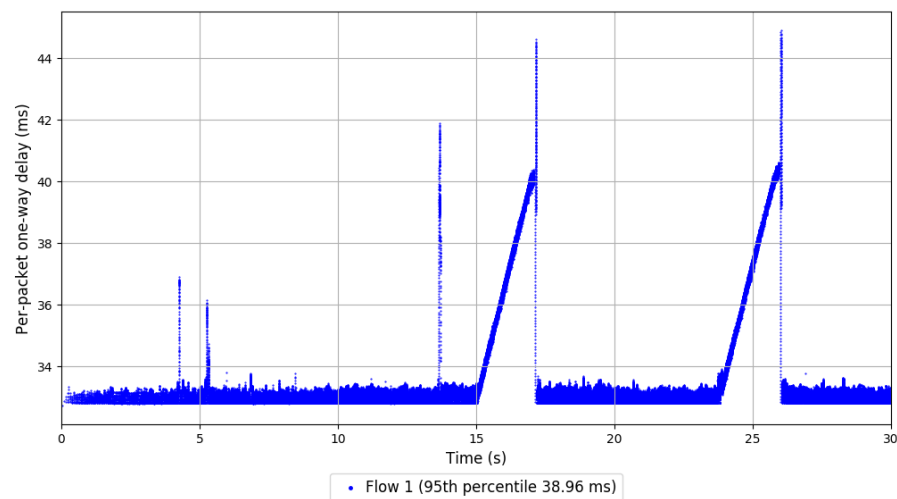
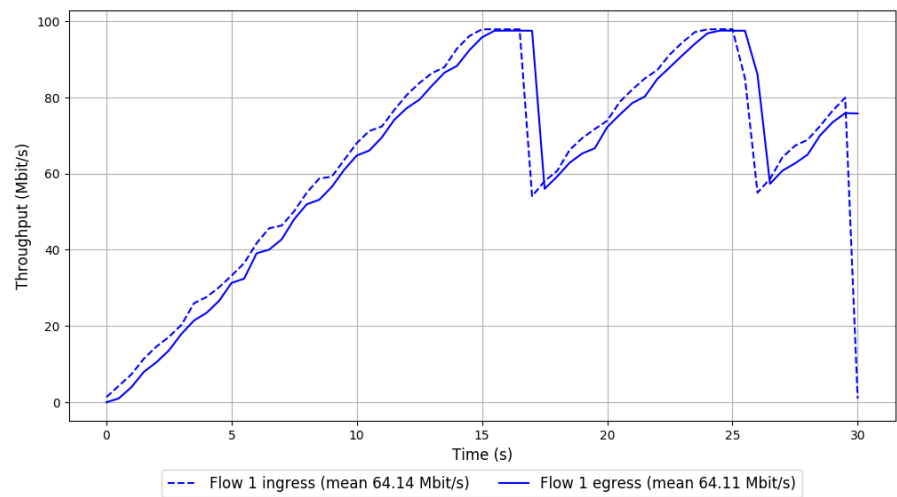


Run 2: Statistics of LEDBAT

Start at: 2018-06-05 20:06:02
End at: 2018-06-05 20:06:32
Local clock offset: 1.367 ms
Remote clock offset: -1.738 ms

Below is generated by plot.py at 2018-06-05 23:11:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 64.11 Mbit/s
95th percentile per-packet one-way delay: 38.960 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 64.11 Mbit/s
95th percentile per-packet one-way delay: 38.960 ms
Loss rate: 0.26%

Run 2: Report of LEDBAT — Data Link

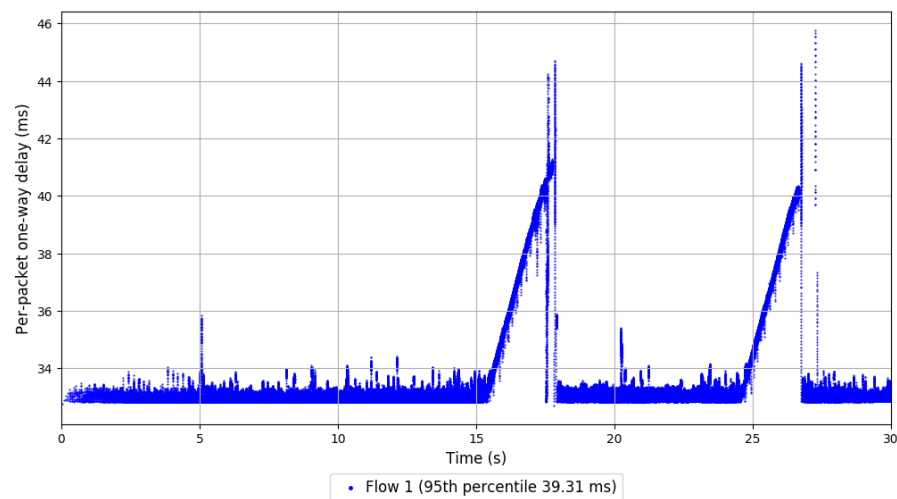
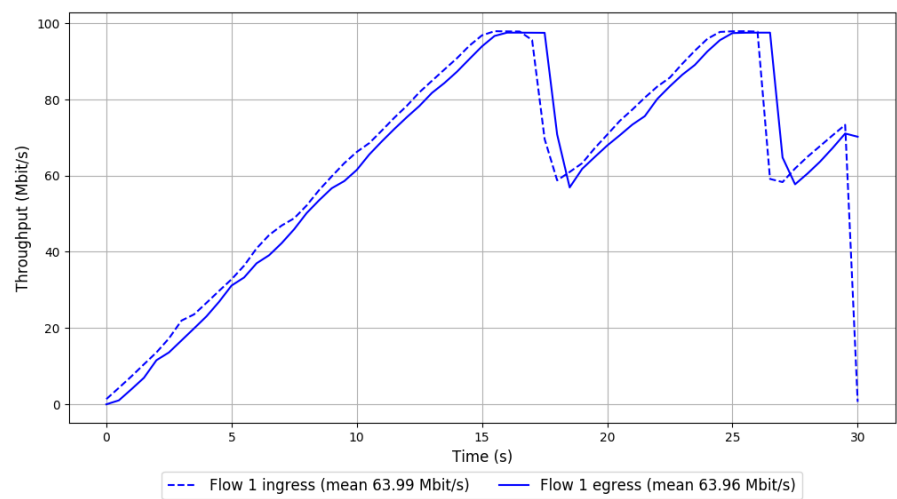


Run 3: Statistics of LEDBAT

Start at: 2018-06-05 20:27:02
End at: 2018-06-05 20:27:32
Local clock offset: 0.545 ms
Remote clock offset: -2.035 ms

Below is generated by plot.py at 2018-06-05 23:11:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 63.96 Mbit/s
95th percentile per-packet one-way delay: 39.306 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 63.96 Mbit/s
95th percentile per-packet one-way delay: 39.306 ms
Loss rate: 0.24%

Run 3: Report of LEDBAT — Data Link

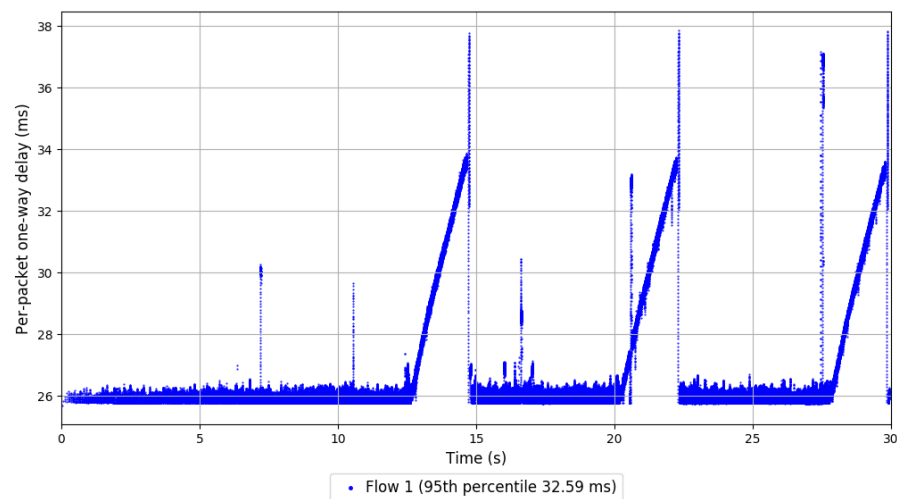
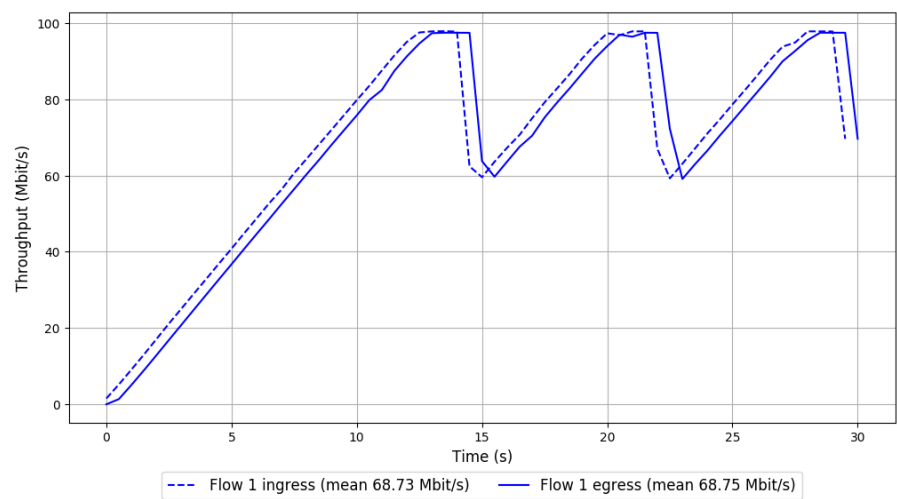


Run 4: Statistics of LEDBAT

Start at: 2018-06-05 20:48:03
End at: 2018-06-05 20:48:33
Local clock offset: 0.519 ms
Remote clock offset: -0.529 ms

Below is generated by plot.py at 2018-06-05 23:11:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 68.75 Mbit/s
95th percentile per-packet one-way delay: 32.595 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 68.75 Mbit/s
95th percentile per-packet one-way delay: 32.595 ms
Loss rate: 0.15%

Run 4: Report of LEDBAT — Data Link

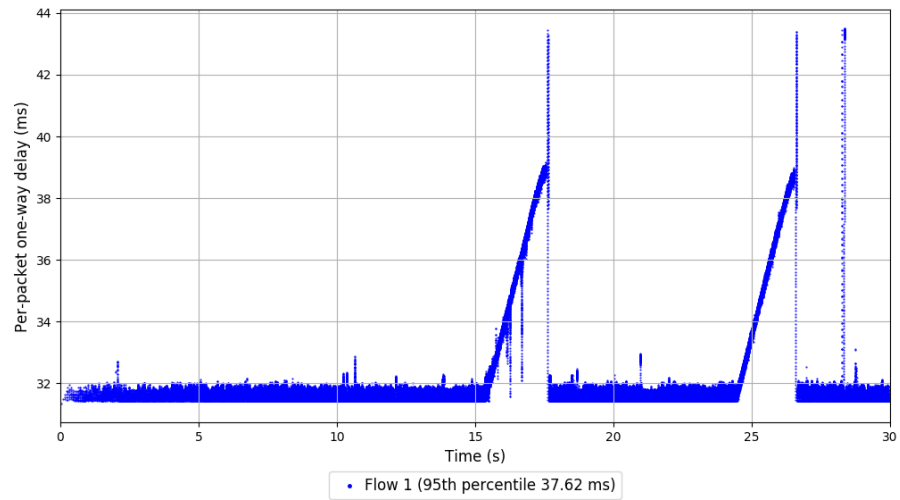
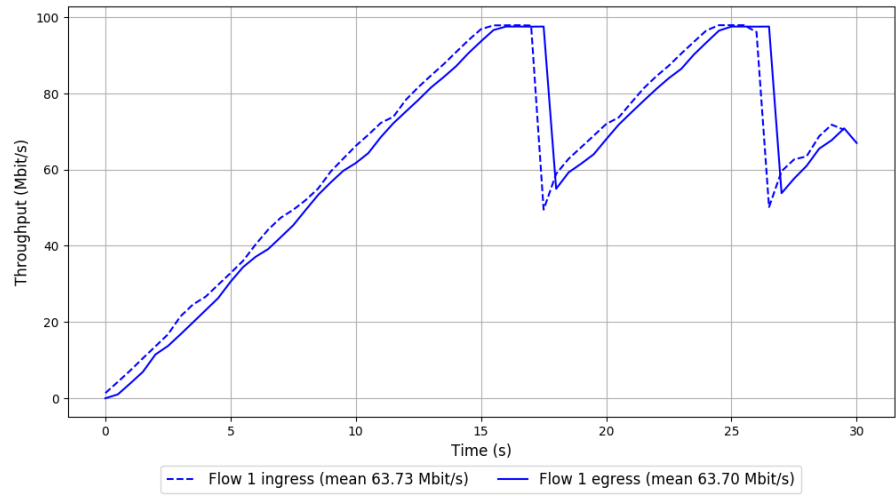


Run 5: Statistics of LEDBAT

Start at: 2018-06-05 21:09:00
End at: 2018-06-05 21:09:30
Local clock offset: 0.418 ms
Remote clock offset: -0.777 ms

Below is generated by plot.py at 2018-06-05 23:11:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 63.70 Mbit/s
95th percentile per-packet one-way delay: 37.620 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 63.70 Mbit/s
95th percentile per-packet one-way delay: 37.620 ms
Loss rate: 0.24%

Run 5: Report of LEDBAT — Data Link

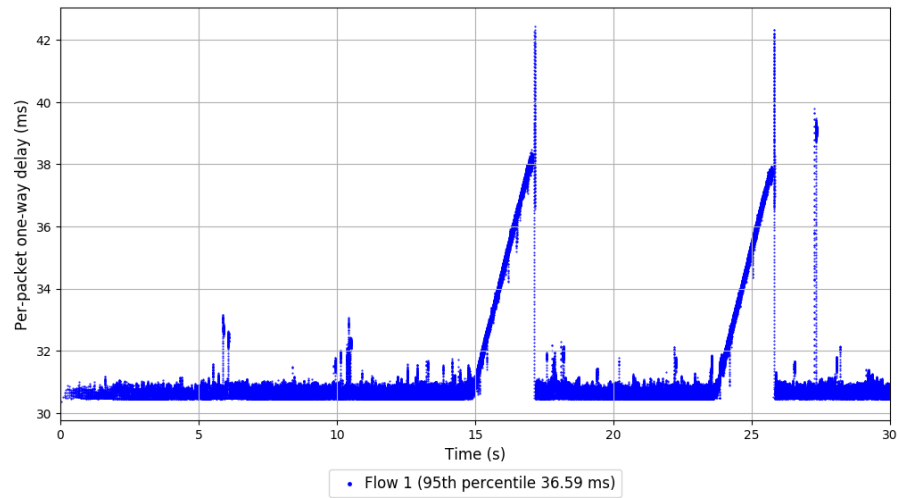
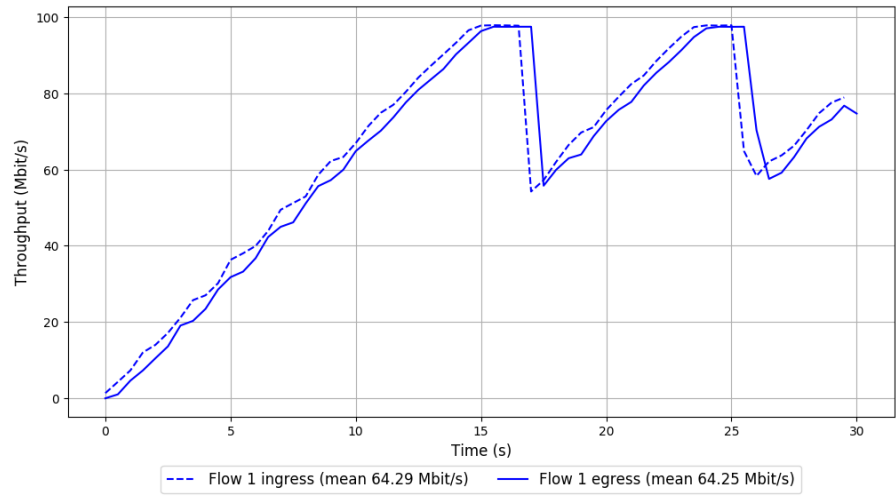


Run 6: Statistics of LEDBAT

Start at: 2018-06-05 21:30:01
End at: 2018-06-05 21:30:31
Local clock offset: 0.411 ms
Remote clock offset: -0.116 ms

Below is generated by plot.py at 2018-06-05 23:11:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 64.25 Mbit/s
95th percentile per-packet one-way delay: 36.589 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 64.25 Mbit/s
95th percentile per-packet one-way delay: 36.589 ms
Loss rate: 0.26%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-06-05 21:51:02

End at: 2018-06-05 21:51:32

Local clock offset: 0.045 ms

Remote clock offset: 0.044 ms

Below is generated by plot.py at 2018-06-05 23:12:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.02 Mbit/s

95th percentile per-packet one-way delay: 35.867 ms

Loss rate: 0.26%

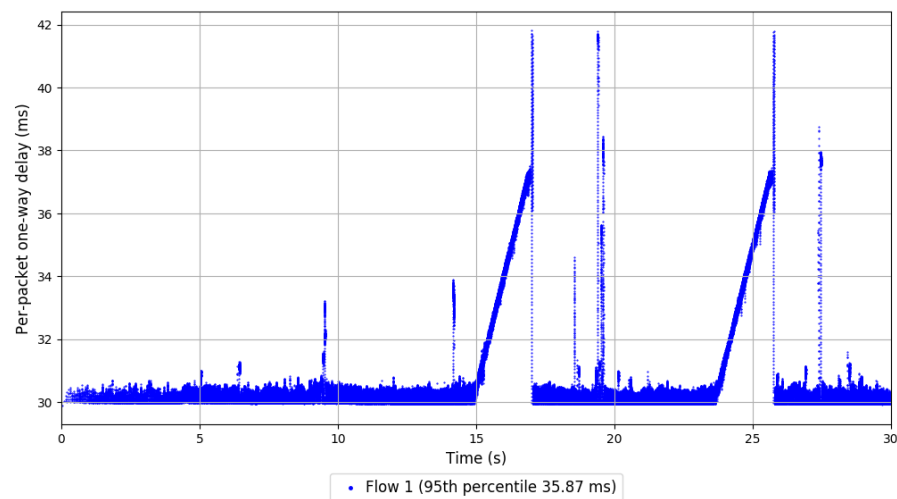
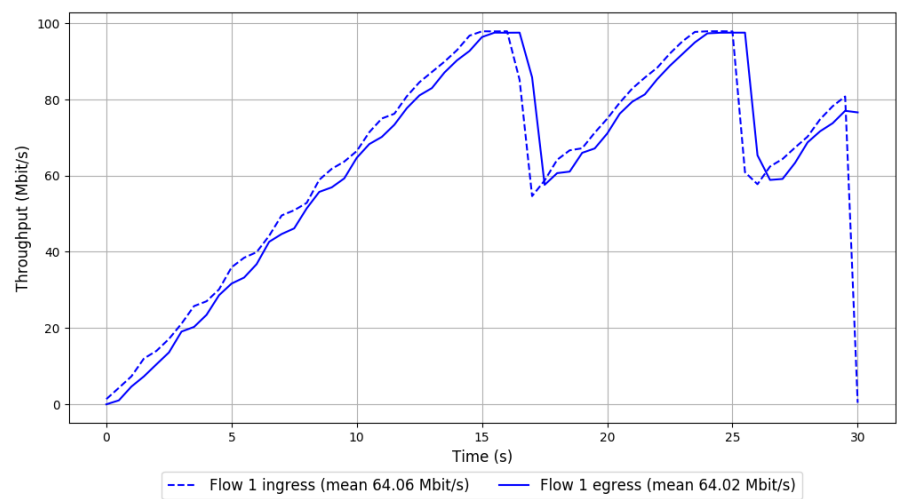
-- Flow 1:

Average throughput: 64.02 Mbit/s

95th percentile per-packet one-way delay: 35.867 ms

Loss rate: 0.26%

Run 7: Report of LEDBAT — Data Link

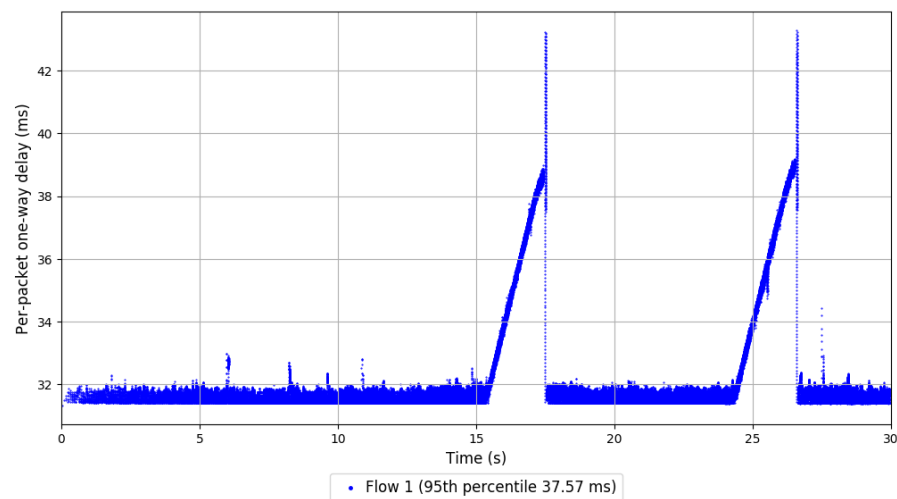
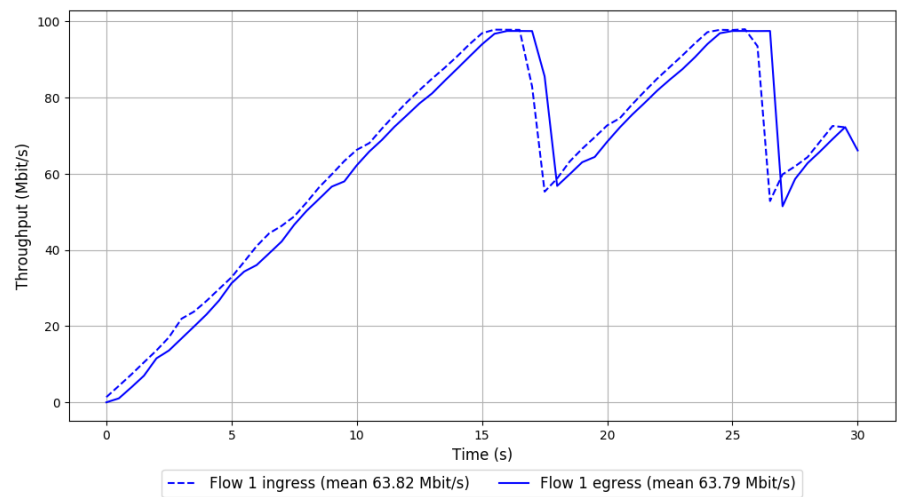


Run 8: Statistics of LEDBAT

Start at: 2018-06-05 22:11:58
End at: 2018-06-05 22:12:28
Local clock offset: 0.145 ms
Remote clock offset: -1.106 ms

Below is generated by plot.py at 2018-06-05 23:12:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 63.79 Mbit/s
95th percentile per-packet one-way delay: 37.566 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 63.79 Mbit/s
95th percentile per-packet one-way delay: 37.566 ms
Loss rate: 0.25%

Run 8: Report of LEDBAT — Data Link

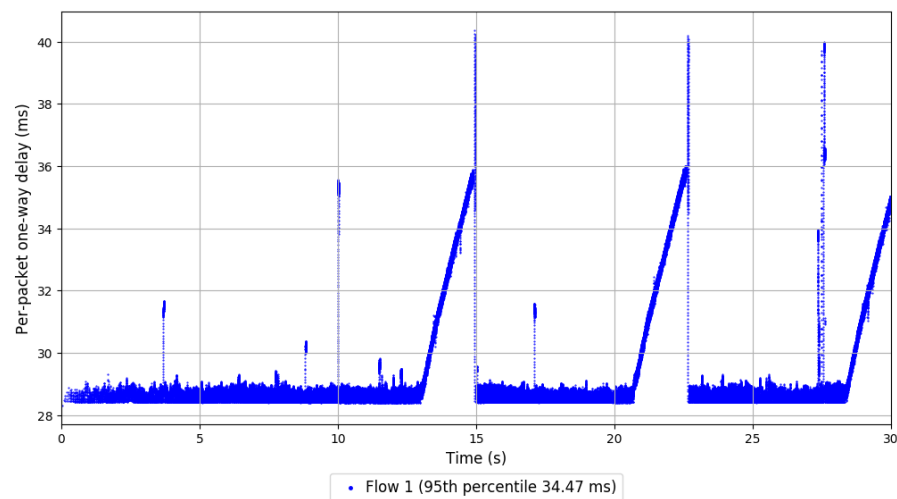
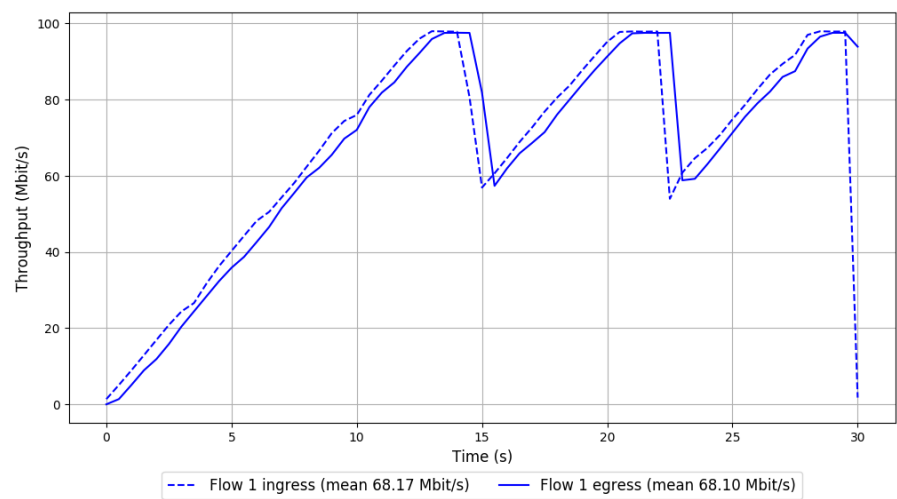


Run 9: Statistics of LEDBAT

Start at: 2018-06-05 22:32:56
End at: 2018-06-05 22:33:26
Local clock offset: 0.098 ms
Remote clock offset: -2.581 ms

Below is generated by plot.py at 2018-06-05 23:12:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 68.10 Mbit/s
95th percentile per-packet one-way delay: 34.470 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 68.10 Mbit/s
95th percentile per-packet one-way delay: 34.470 ms
Loss rate: 0.30%

Run 9: Report of LEDBAT — Data Link

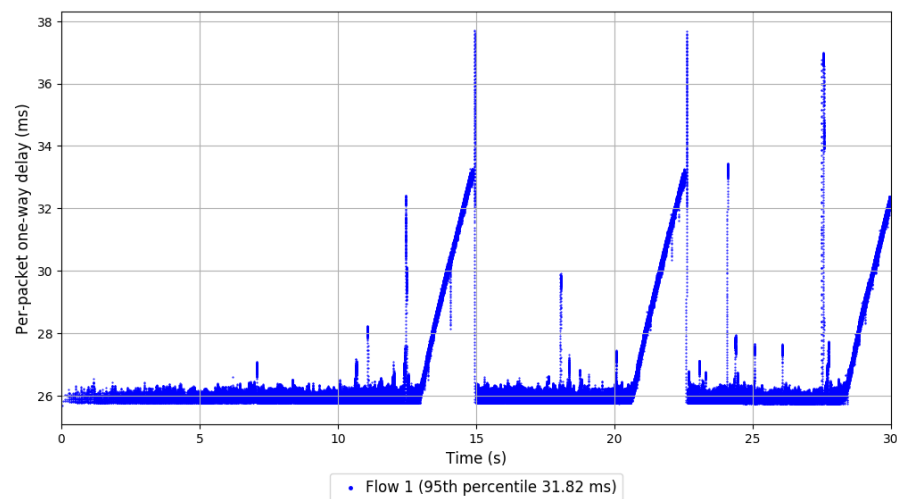
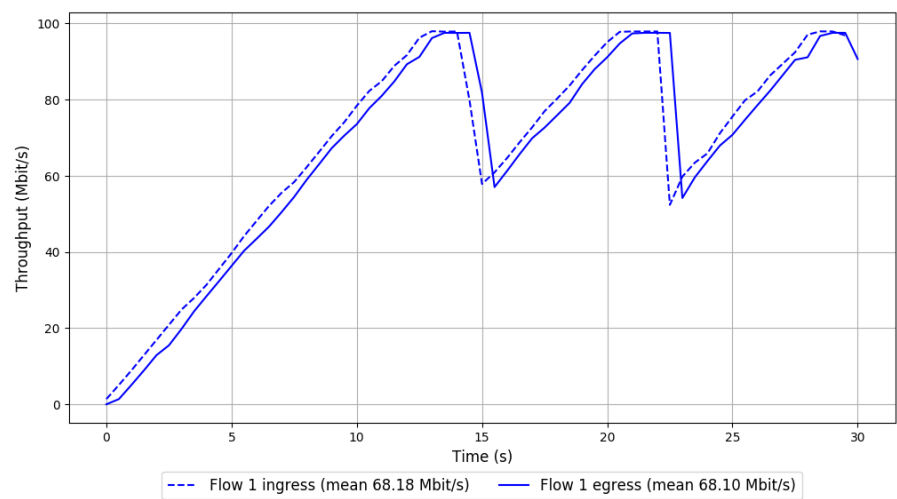


Run 10: Statistics of LEDBAT

Start at: 2018-06-05 22:53:49
End at: 2018-06-05 22:54:19
Local clock offset: 0.445 ms
Remote clock offset: -0.185 ms

Below is generated by plot.py at 2018-06-05 23:12:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 68.10 Mbit/s
95th percentile per-packet one-way delay: 31.821 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 68.10 Mbit/s
95th percentile per-packet one-way delay: 31.821 ms
Loss rate: 0.30%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-06-05 19:50:15

End at: 2018-06-05 19:50:45

Local clock offset: 1.397 ms

Remote clock offset: -2.048 ms

Below is generated by plot.py at 2018-06-05 23:12:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.67 Mbit/s

95th percentile per-packet one-way delay: 36.452 ms

Loss rate: 0.22%

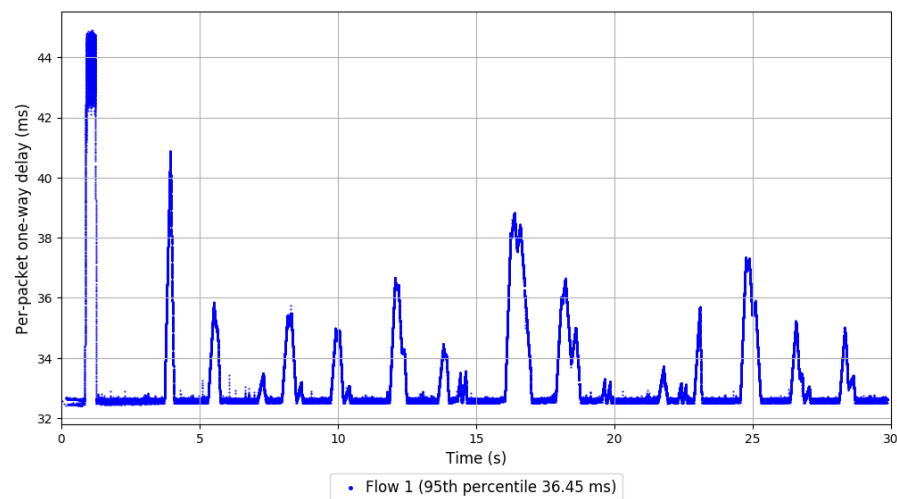
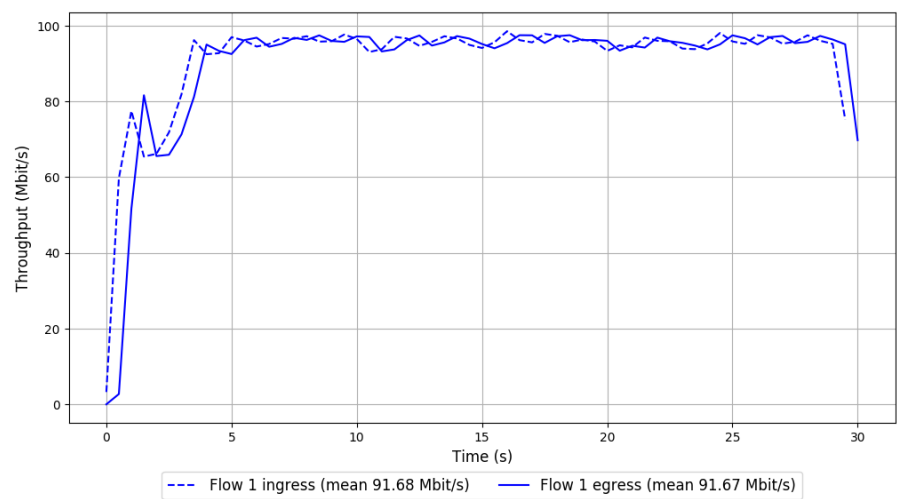
-- Flow 1:

Average throughput: 91.67 Mbit/s

95th percentile per-packet one-way delay: 36.452 ms

Loss rate: 0.22%

Run 1: Report of PCC-Allegro — Data Link

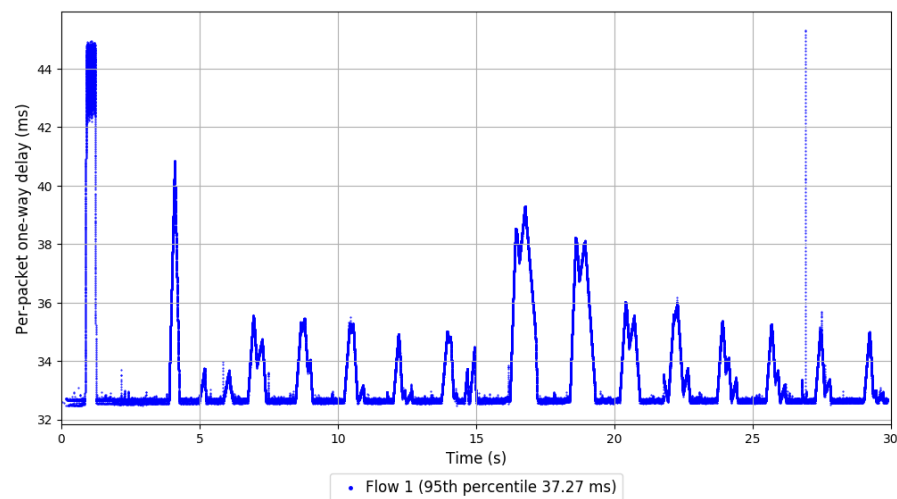
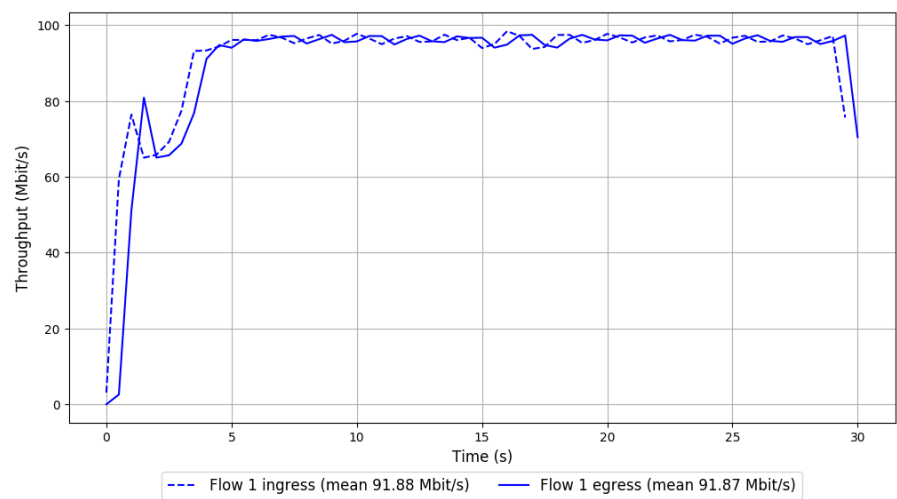


Run 2: Statistics of PCC-Allegro

Start at: 2018-06-05 20:11:11
End at: 2018-06-05 20:11:41
Local clock offset: 0.981 ms
Remote clock offset: -2.061 ms

Below is generated by plot.py at 2018-06-05 23:12:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.87 Mbit/s
95th percentile per-packet one-way delay: 37.272 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 91.87 Mbit/s
95th percentile per-packet one-way delay: 37.272 ms
Loss rate: 0.21%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-05 20:32:12

End at: 2018-06-05 20:32:42

Local clock offset: 0.478 ms

Remote clock offset: 0.689 ms

Below is generated by plot.py at 2018-06-05 23:13:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.91 Mbit/s

95th percentile per-packet one-way delay: 29.596 ms

Loss rate: 0.20%

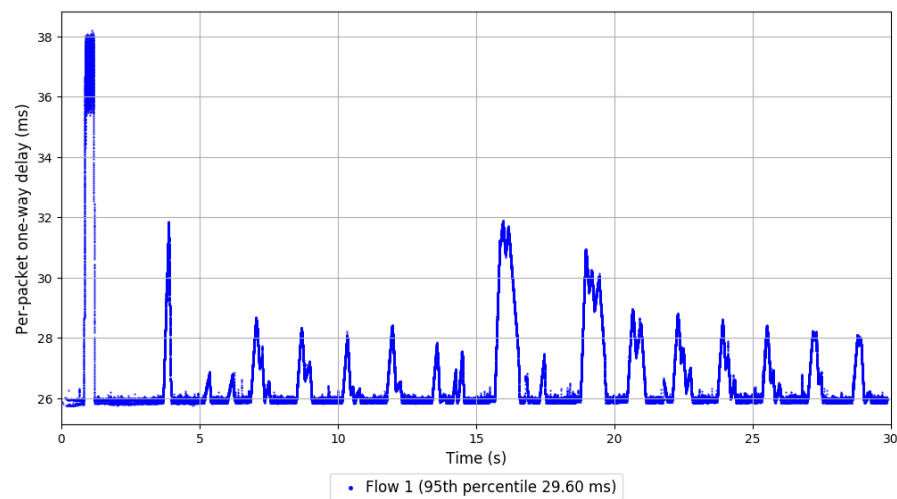
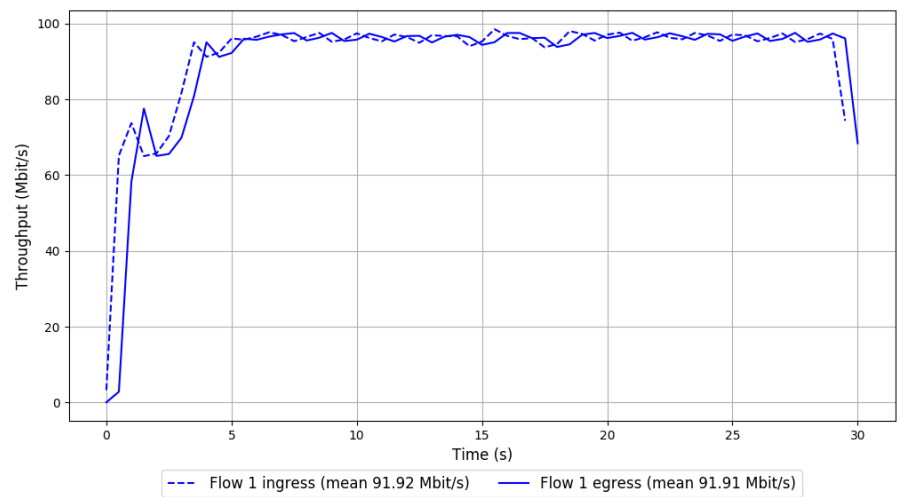
-- Flow 1:

Average throughput: 91.91 Mbit/s

95th percentile per-packet one-way delay: 29.596 ms

Loss rate: 0.20%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-05 20:53:12

End at: 2018-06-05 20:53:42

Local clock offset: 0.471 ms

Remote clock offset: -0.229 ms

Below is generated by plot.py at 2018-06-05 23:13:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.14 Mbit/s

95th percentile per-packet one-way delay: 32.808 ms

Loss rate: 0.20%

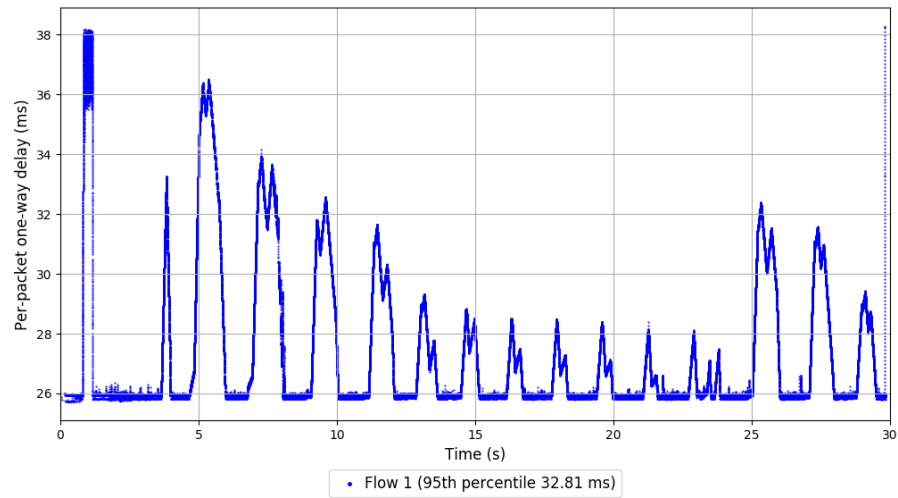
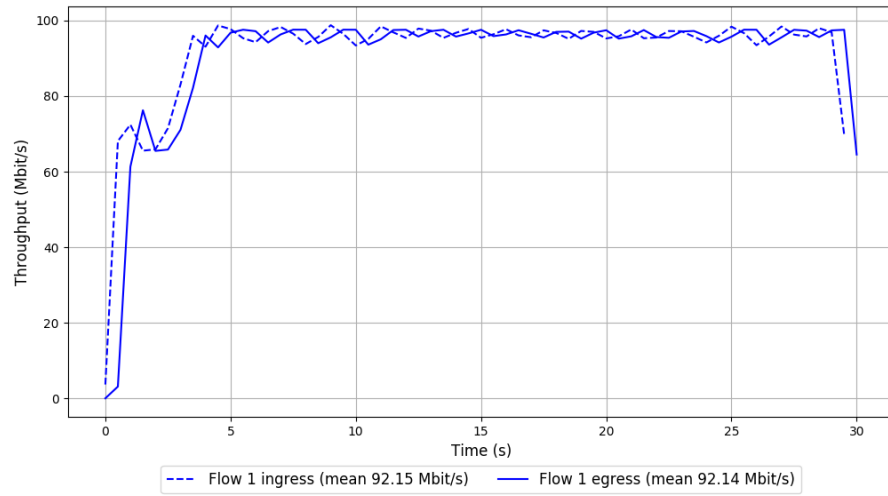
-- Flow 1:

Average throughput: 92.14 Mbit/s

95th percentile per-packet one-way delay: 32.808 ms

Loss rate: 0.20%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-05 21:14:08

End at: 2018-06-05 21:14:38

Local clock offset: 0.431 ms

Remote clock offset: -0.613 ms

Below is generated by plot.py at 2018-06-05 23:13:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.12 Mbit/s

95th percentile per-packet one-way delay: 35.331 ms

Loss rate: 0.21%

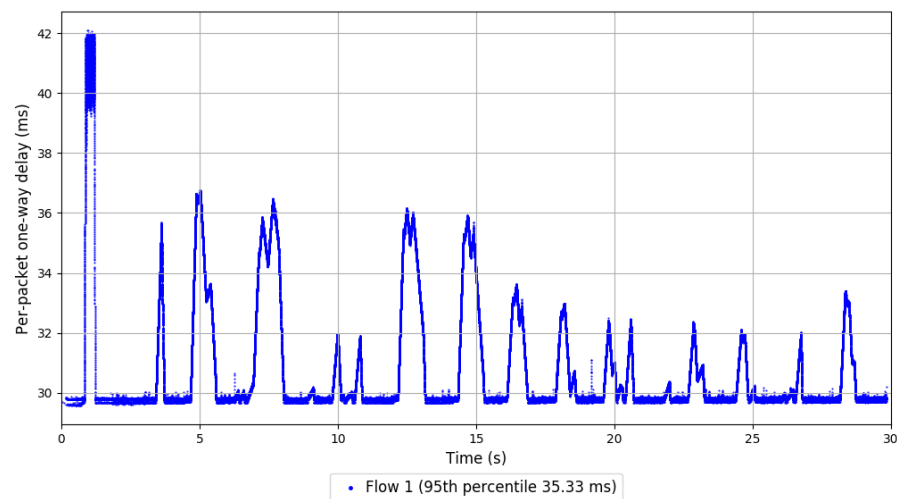
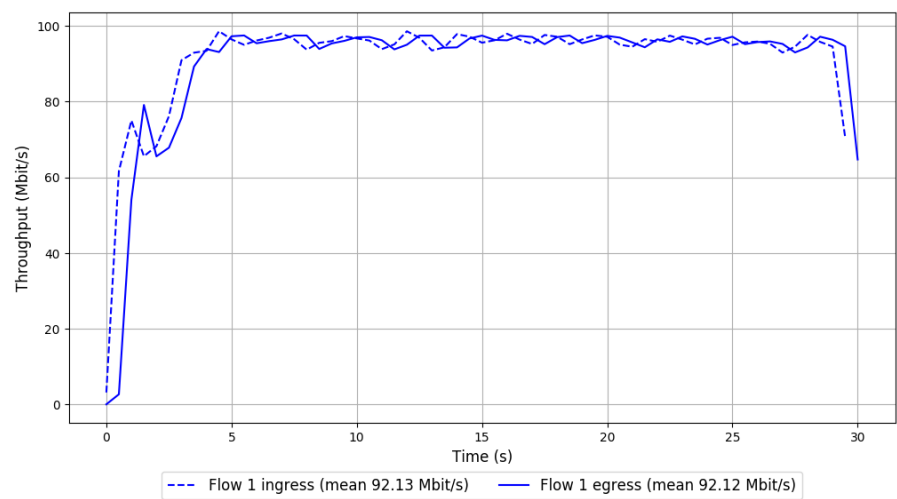
-- Flow 1:

Average throughput: 92.12 Mbit/s

95th percentile per-packet one-way delay: 35.331 ms

Loss rate: 0.21%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-06-05 21:35:09

End at: 2018-06-05 21:35:39

Local clock offset: 0.381 ms

Remote clock offset: -2.069 ms

Below is generated by plot.py at 2018-06-05 23:13:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.10 Mbit/s

95th percentile per-packet one-way delay: 34.750 ms

Loss rate: 0.21%

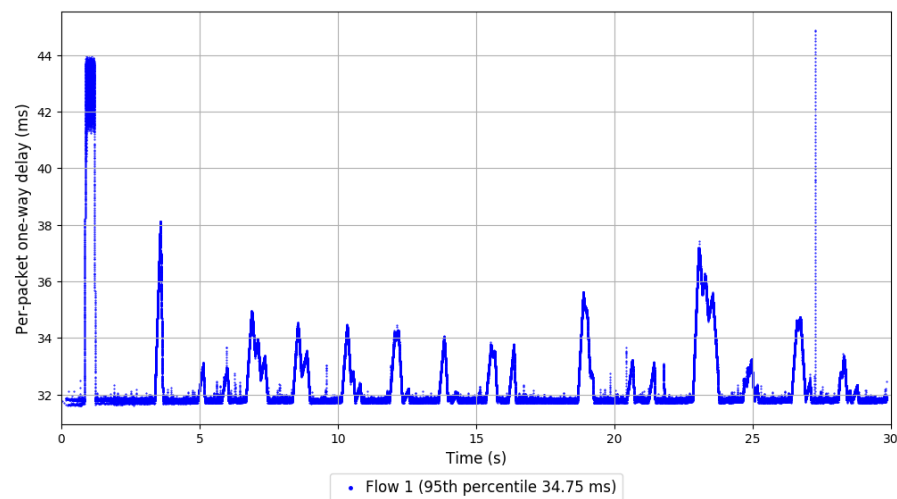
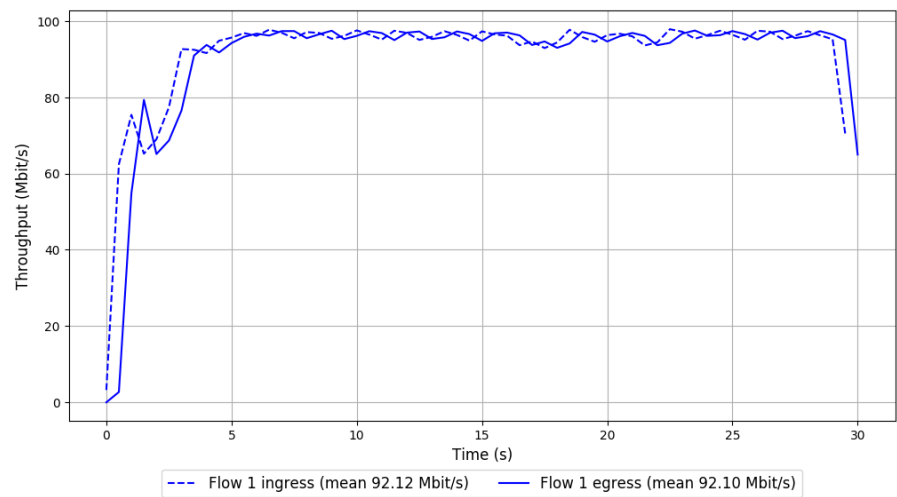
-- Flow 1:

Average throughput: 92.10 Mbit/s

95th percentile per-packet one-way delay: 34.750 ms

Loss rate: 0.21%

Run 6: Report of PCC-Allegro — Data Link

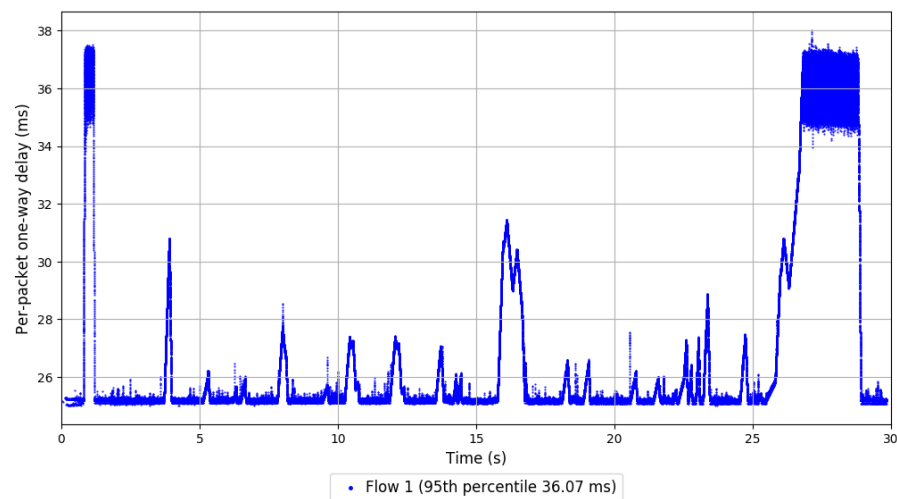
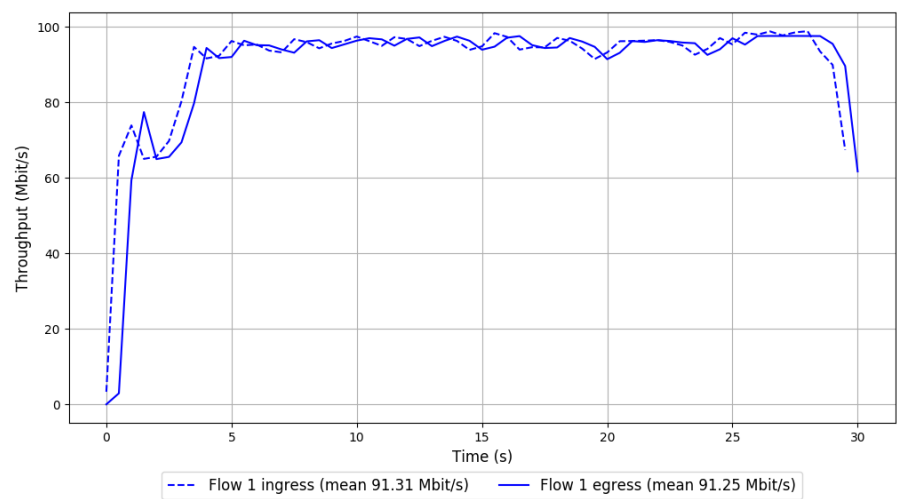


Run 7: Statistics of PCC-Allegro

Start at: 2018-06-05 21:56:10
End at: 2018-06-05 21:56:40
Local clock offset: 0.064 ms
Remote clock offset: -0.339 ms

Below is generated by plot.py at 2018-06-05 23:13:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.25 Mbit/s
95th percentile per-packet one-way delay: 36.074 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 91.25 Mbit/s
95th percentile per-packet one-way delay: 36.074 ms
Loss rate: 0.25%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-05 22:17:07

End at: 2018-06-05 22:17:37

Local clock offset: 0.195 ms

Remote clock offset: -1.142 ms

Below is generated by plot.py at 2018-06-05 23:13:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.58 Mbit/s

95th percentile per-packet one-way delay: 29.172 ms

Loss rate: 0.21%

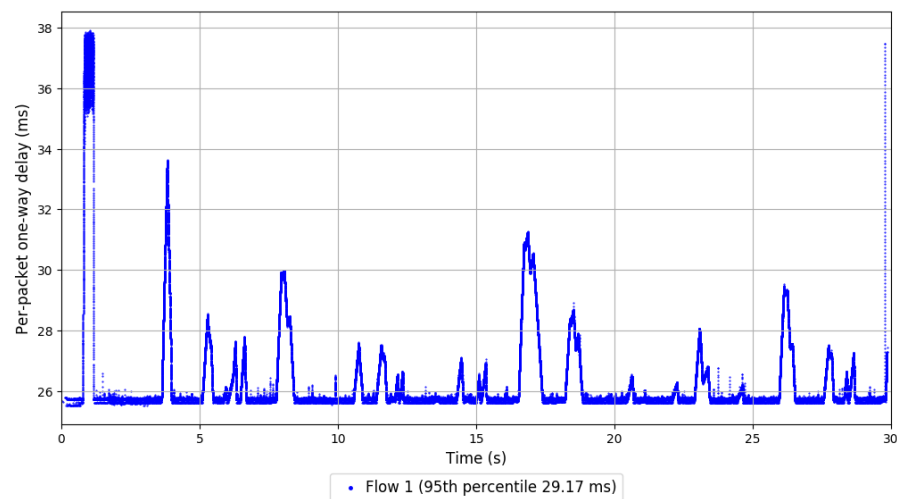
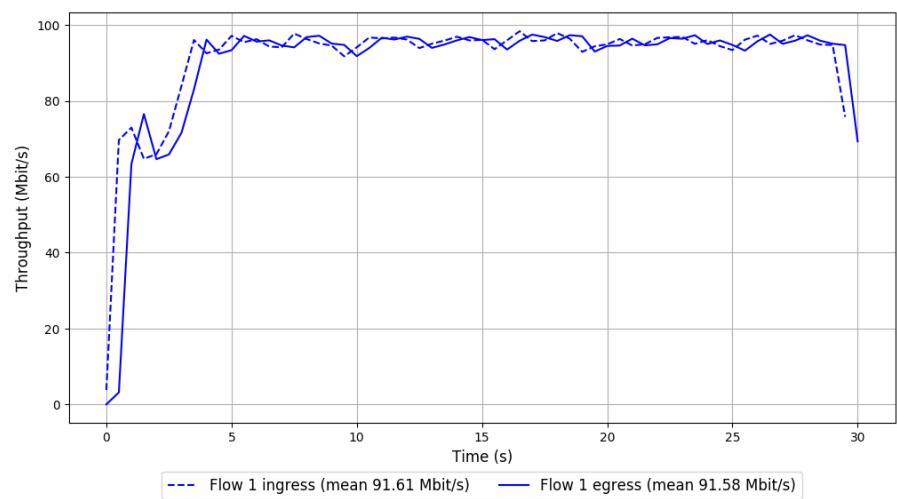
-- Flow 1:

Average throughput: 91.58 Mbit/s

95th percentile per-packet one-way delay: 29.172 ms

Loss rate: 0.21%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-05 22:38:04

End at: 2018-06-05 22:38:35

Local clock offset: 0.3 ms

Remote clock offset: 0.089 ms

Below is generated by plot.py at 2018-06-05 23:13:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.89 Mbit/s

95th percentile per-packet one-way delay: 29.756 ms

Loss rate: 0.20%

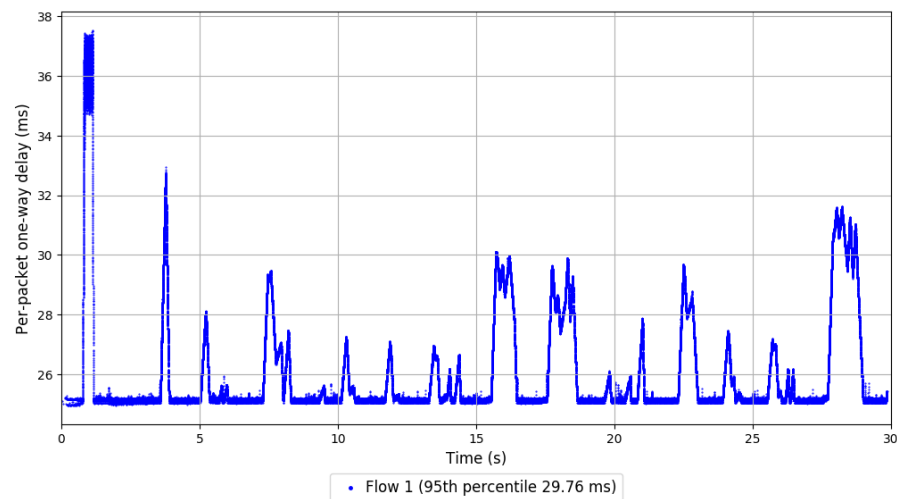
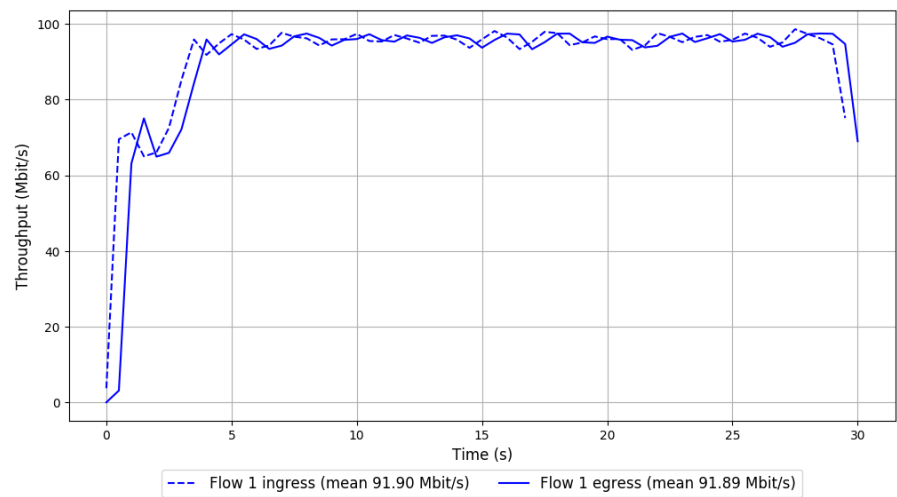
-- Flow 1:

Average throughput: 91.89 Mbit/s

95th percentile per-packet one-way delay: 29.756 ms

Loss rate: 0.20%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-06-05 22:58:57

End at: 2018-06-05 22:59:27

Local clock offset: 0.371 ms

Remote clock offset: -0.569 ms

Below is generated by plot.py at 2018-06-05 23:14:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.85 Mbit/s

95th percentile per-packet one-way delay: 42.424 ms

Loss rate: 0.26%

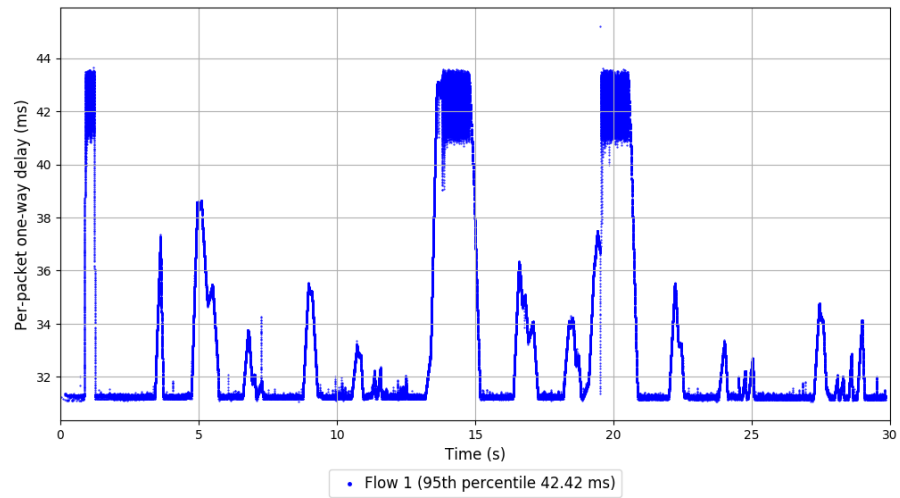
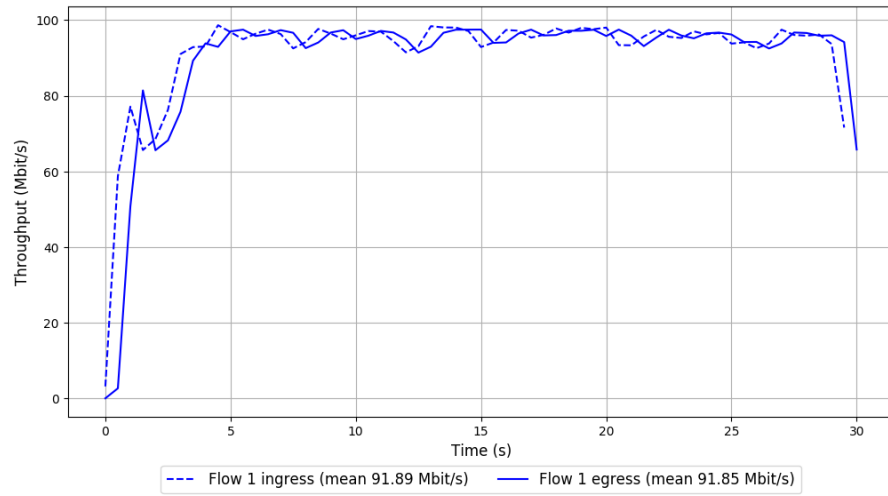
-- Flow 1:

Average throughput: 91.85 Mbit/s

95th percentile per-packet one-way delay: 42.424 ms

Loss rate: 0.26%

Run 10: Report of PCC-Allegro — Data Link

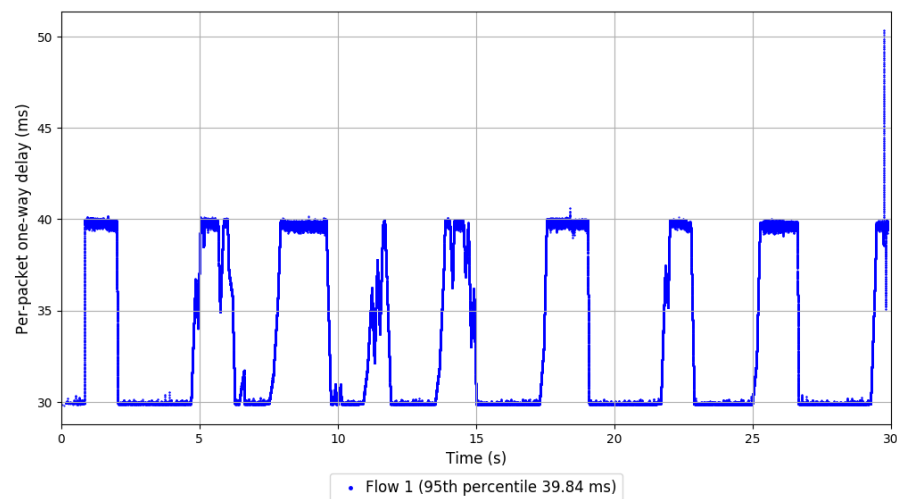
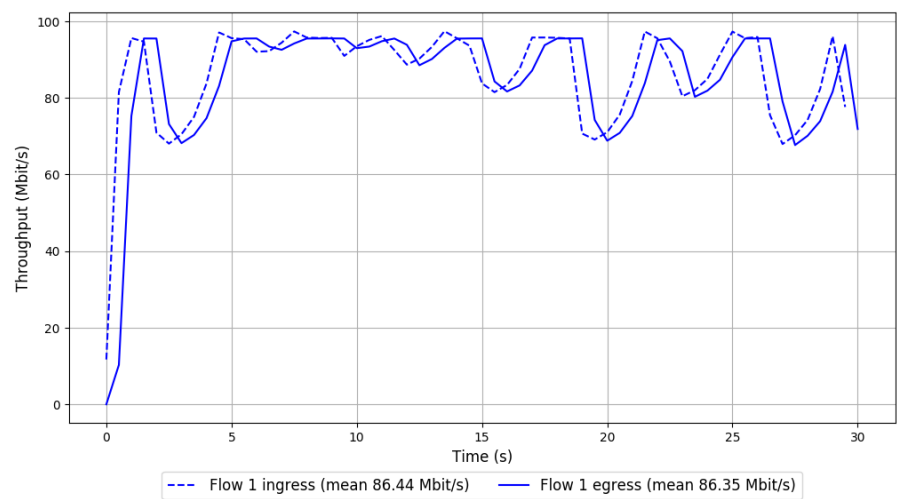


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-05 19:33:11
End at: 2018-06-05 19:33:41
Local clock offset: 1.088 ms
Remote clock offset: 0.245 ms

# Below is generated by plot.py at 2018-06-05 23:15:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.35 Mbit/s
95th percentile per-packet one-way delay: 39.843 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 86.35 Mbit/s
95th percentile per-packet one-way delay: 39.843 ms
Loss rate: 0.31%
```

Run 1: Report of PCC-Expr — Data Link

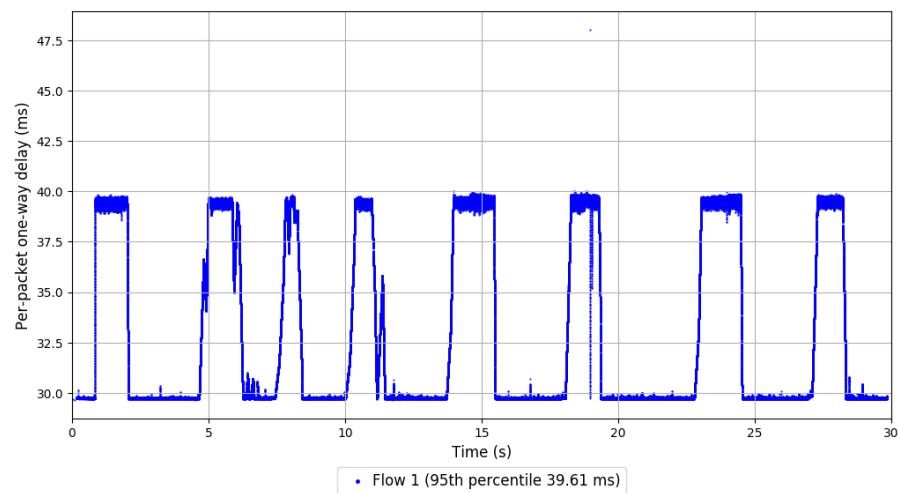
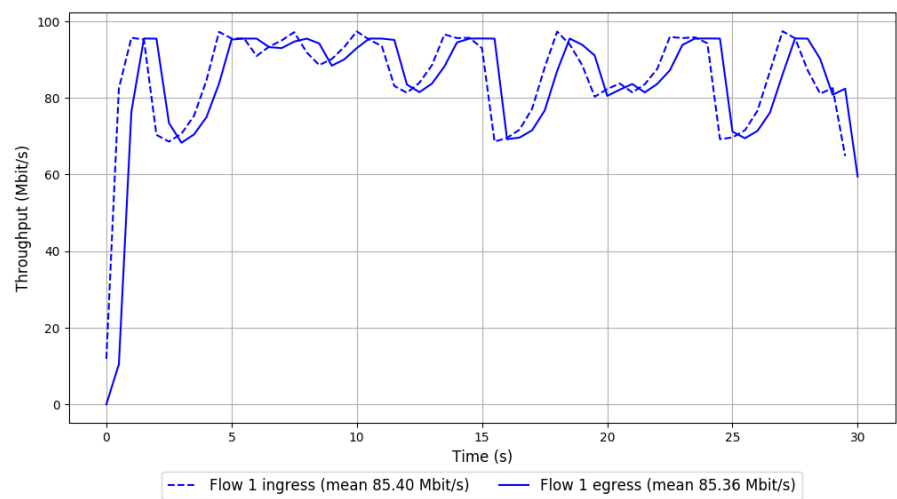


```
Run 2: Statistics of PCC-Expr

Start at: 2018-06-05 19:54:06
End at: 2018-06-05 19:54:36
Local clock offset: 1.378 ms
Remote clock offset: 0.173 ms

# Below is generated by plot.py at 2018-06-05 23:15:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.36 Mbit/s
95th percentile per-packet one-way delay: 39.613 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 85.36 Mbit/s
95th percentile per-packet one-way delay: 39.613 ms
Loss rate: 0.25%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-06-05 20:15:02

End at: 2018-06-05 20:15:32

Local clock offset: 0.741 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-06-05 23:15:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.50 Mbit/s

95th percentile per-packet one-way delay: 39.763 ms

Loss rate: 0.23%

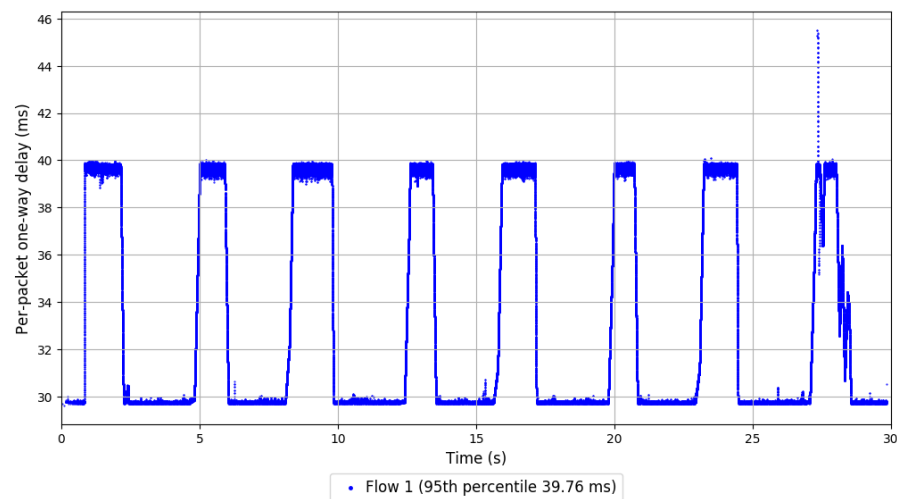
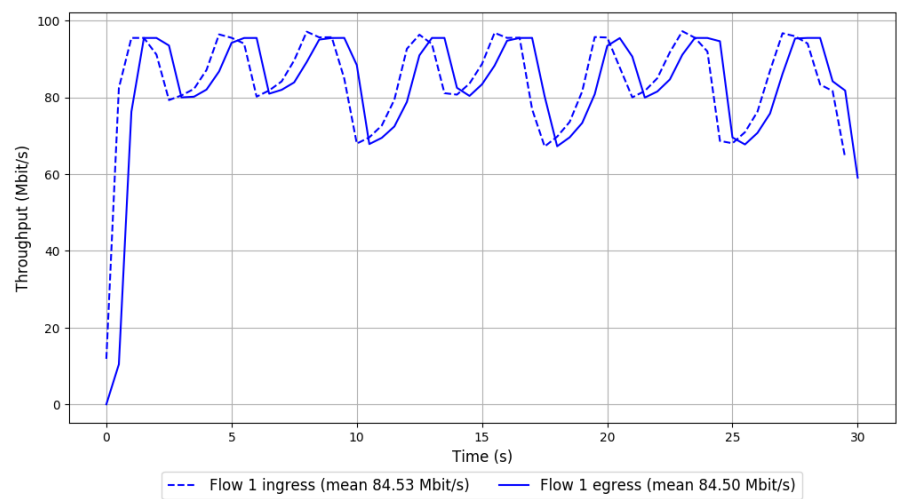
-- Flow 1:

Average throughput: 84.50 Mbit/s

95th percentile per-packet one-way delay: 39.763 ms

Loss rate: 0.23%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-06-05 20:36:03

End at: 2018-06-05 20:36:33

Local clock offset: 0.393 ms

Remote clock offset: 0.262 ms

Below is generated by plot.py at 2018-06-05 23:15:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.83 Mbit/s

95th percentile per-packet one-way delay: 41.262 ms

Loss rate: 0.25%

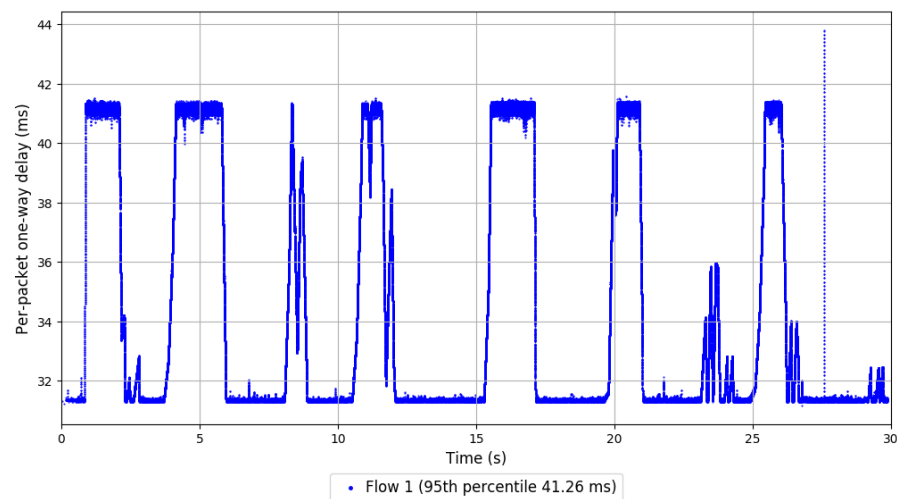
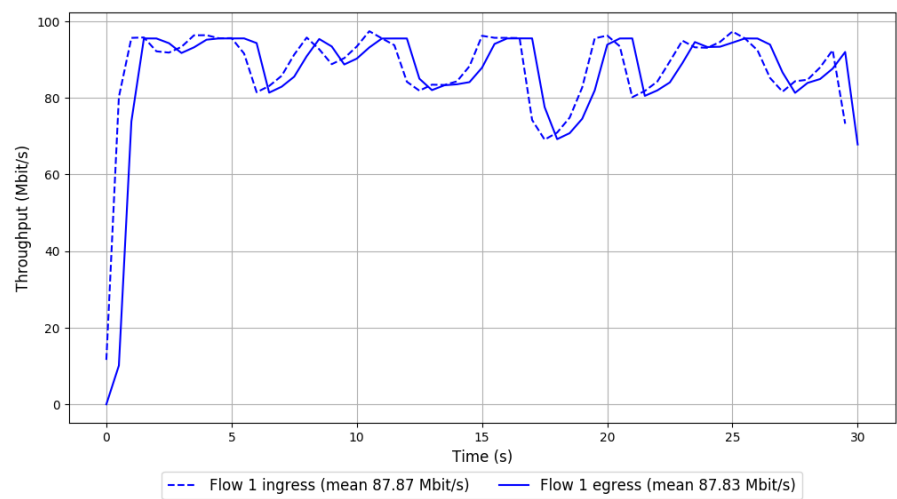
-- Flow 1:

Average throughput: 87.83 Mbit/s

95th percentile per-packet one-way delay: 41.262 ms

Loss rate: 0.25%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-05 20:57:03

End at: 2018-06-05 20:57:33

Local clock offset: 0.392 ms

Remote clock offset: -2.73 ms

Below is generated by plot.py at 2018-06-05 23:15:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.61 Mbit/s

95th percentile per-packet one-way delay: 42.582 ms

Loss rate: 0.26%

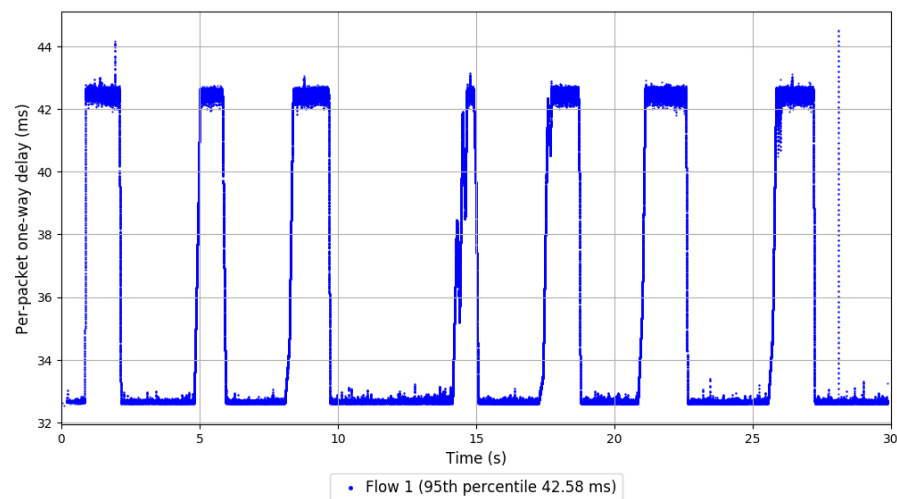
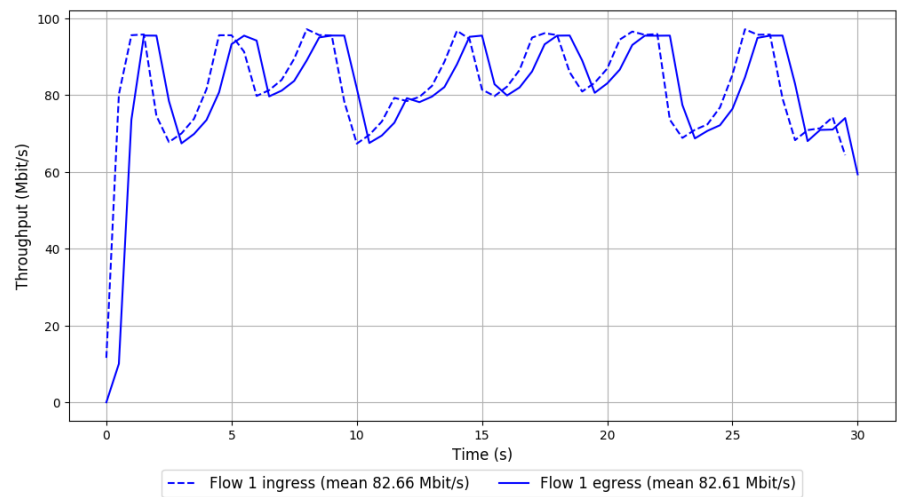
-- Flow 1:

Average throughput: 82.61 Mbit/s

95th percentile per-packet one-way delay: 42.582 ms

Loss rate: 0.26%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-06-05 21:17:58

End at: 2018-06-05 21:18:28

Local clock offset: 0.535 ms

Remote clock offset: -0.476 ms

Below is generated by plot.py at 2018-06-05 23:15:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.73 Mbit/s

95th percentile per-packet one-way delay: 39.847 ms

Loss rate: 0.19%

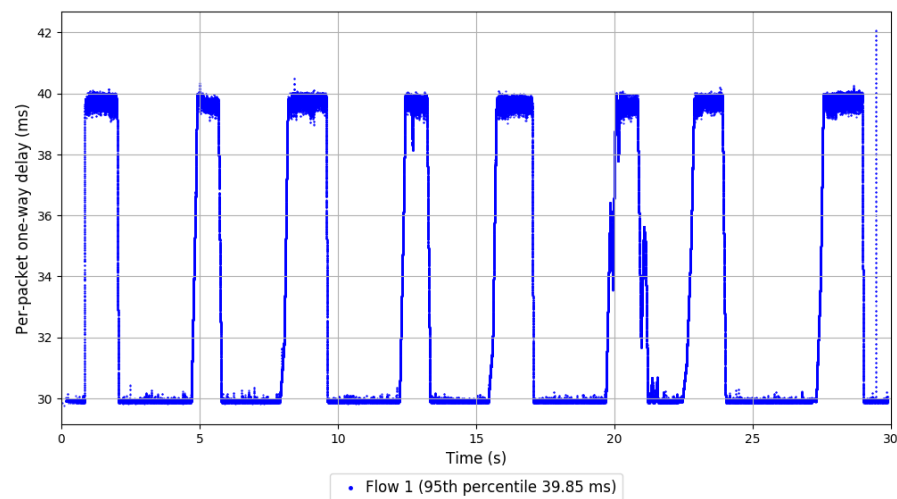
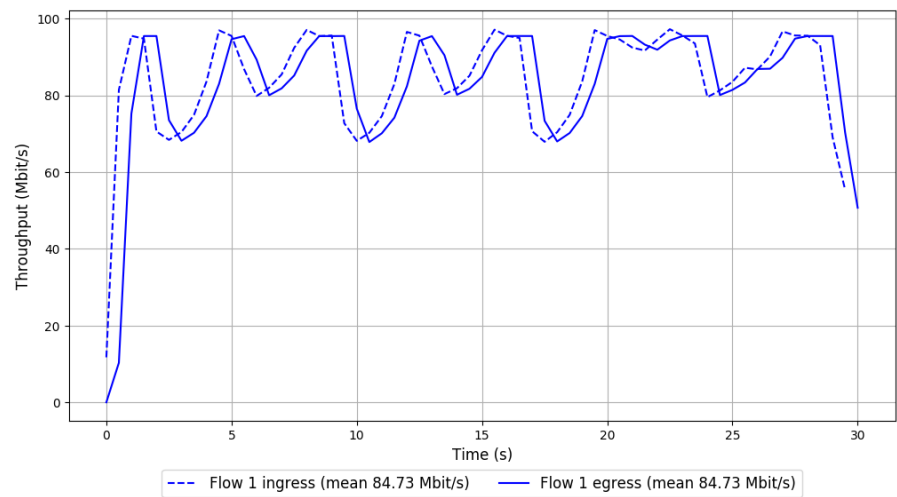
-- Flow 1:

Average throughput: 84.73 Mbit/s

95th percentile per-packet one-way delay: 39.847 ms

Loss rate: 0.19%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-06-05 21:39:05

End at: 2018-06-05 21:39:35

Local clock offset: 0.348 ms

Remote clock offset: 0.594 ms

Below is generated by plot.py at 2018-06-05 23:15:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.79 Mbit/s

95th percentile per-packet one-way delay: 35.086 ms

Loss rate: 0.26%

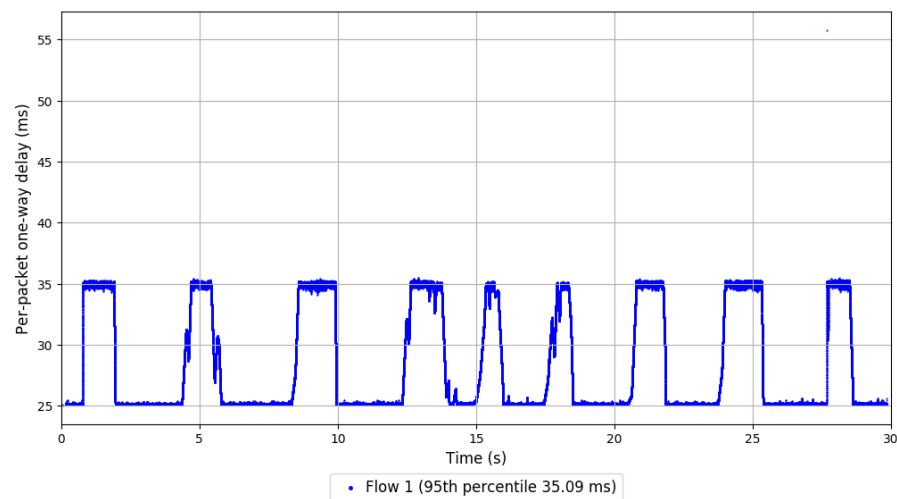
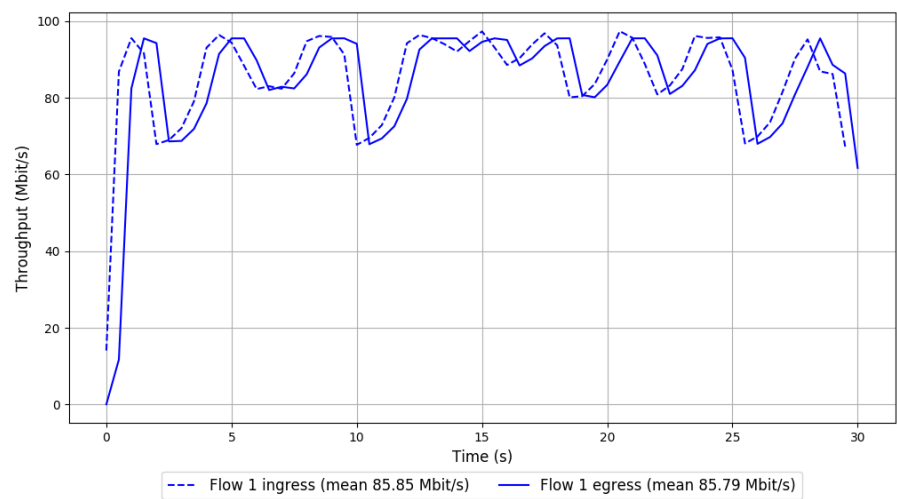
-- Flow 1:

Average throughput: 85.79 Mbit/s

95th percentile per-packet one-way delay: 35.086 ms

Loss rate: 0.26%

Run 7: Report of PCC-Expr — Data Link

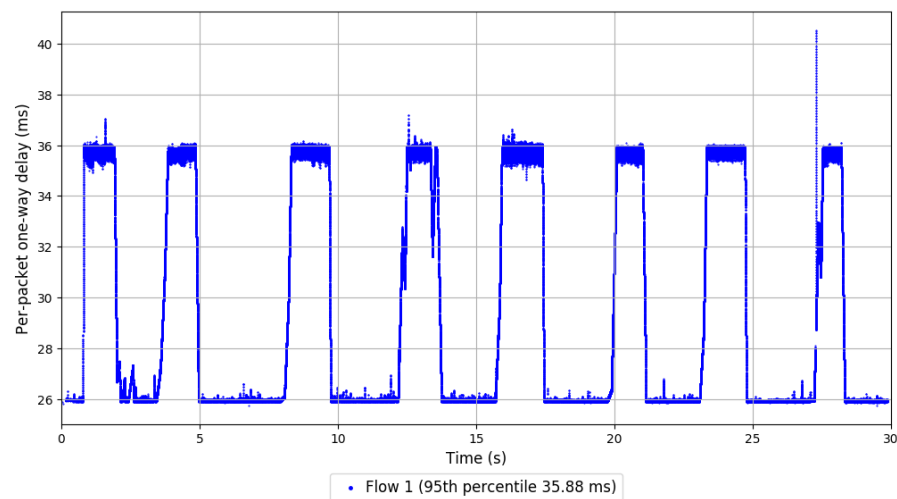
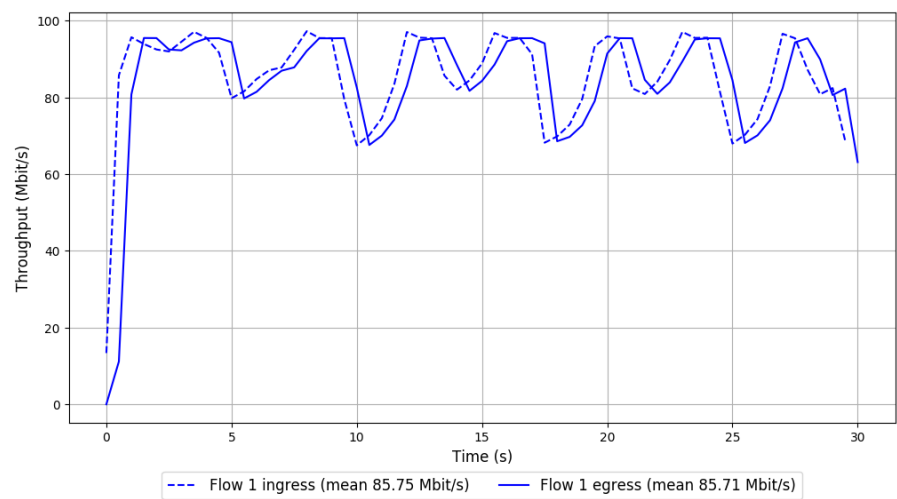


Run 8: Statistics of PCC-Expr

Start at: 2018-06-05 22:00:01
End at: 2018-06-05 22:00:31
Local clock offset: 0.053 ms
Remote clock offset: -0.476 ms

Below is generated by plot.py at 2018-06-05 23:16:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.71 Mbit/s
95th percentile per-packet one-way delay: 35.875 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 85.71 Mbit/s
95th percentile per-packet one-way delay: 35.875 ms
Loss rate: 0.23%

Run 8: Report of PCC-Expr — Data Link

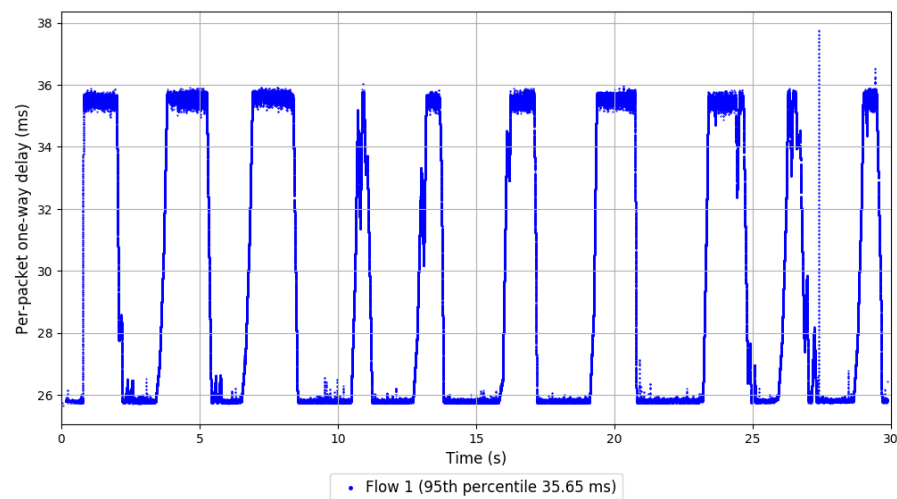
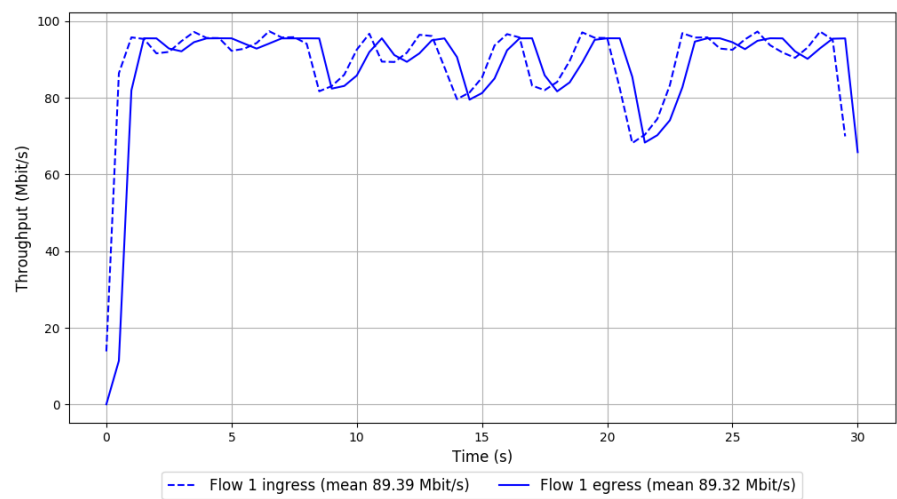


Run 9: Statistics of PCC-Expr

Start at: 2018-06-05 22:20:58
End at: 2018-06-05 22:21:28
Local clock offset: 0.204 ms
Remote clock offset: -0.618 ms

Below is generated by plot.py at 2018-06-05 23:17:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.32 Mbit/s
95th percentile per-packet one-way delay: 35.645 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 89.32 Mbit/s
95th percentile per-packet one-way delay: 35.645 ms
Loss rate: 0.27%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-06-05 22:41:54

End at: 2018-06-05 22:42:24

Local clock offset: 0.382 ms

Remote clock offset: -0.34 ms

Below is generated by plot.py at 2018-06-05 23:17:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.92 Mbit/s

95th percentile per-packet one-way delay: 40.622 ms

Loss rate: 0.25%

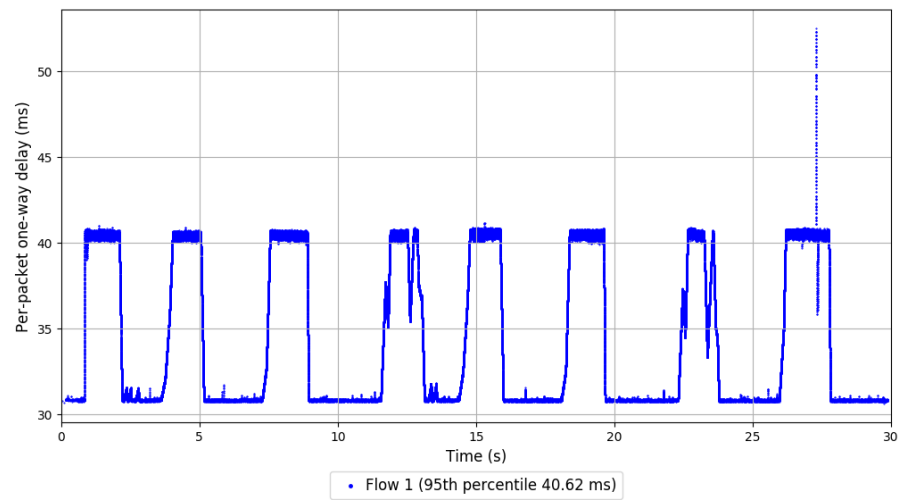
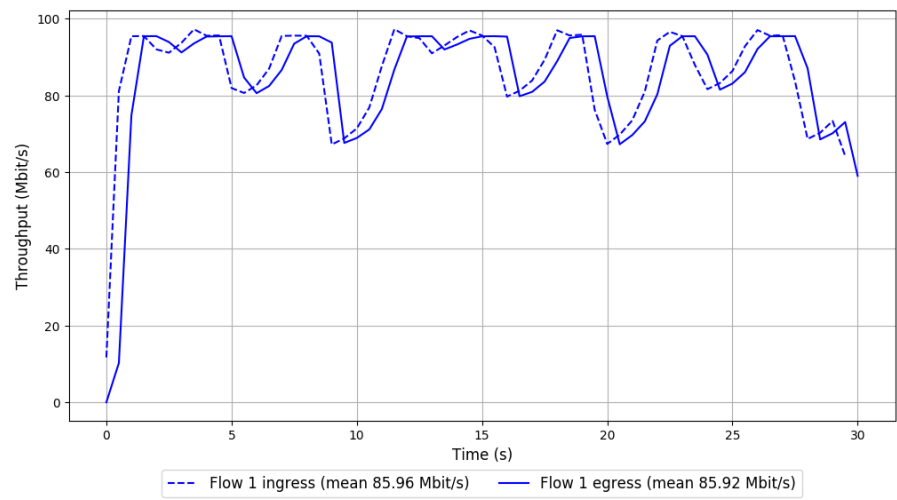
-- Flow 1:

Average throughput: 85.92 Mbit/s

95th percentile per-packet one-way delay: 40.622 ms

Loss rate: 0.25%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-06-05 19:37:10

End at: 2018-06-05 19:37:40

Local clock offset: 1.132 ms

Remote clock offset: -2.321 ms

Below is generated by plot.py at 2018-06-05 23:17:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.98 Mbit/s

95th percentile per-packet one-way delay: 35.674 ms

Loss rate: 0.23%

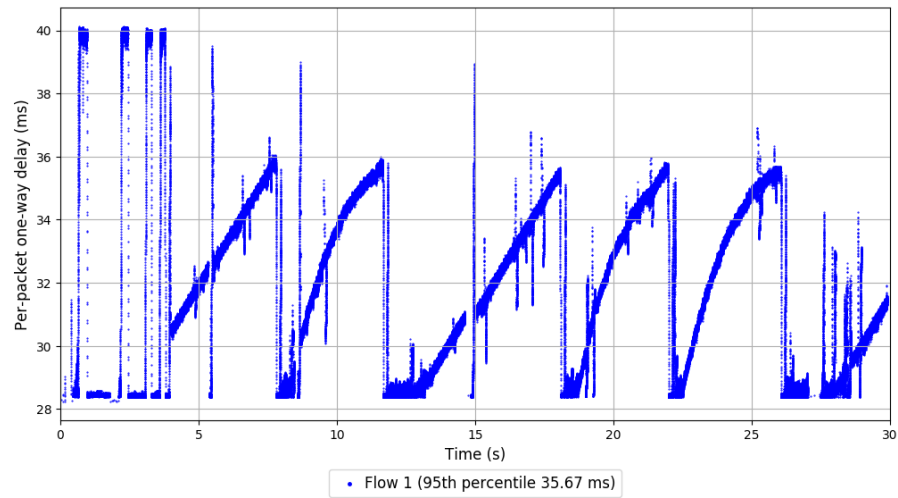
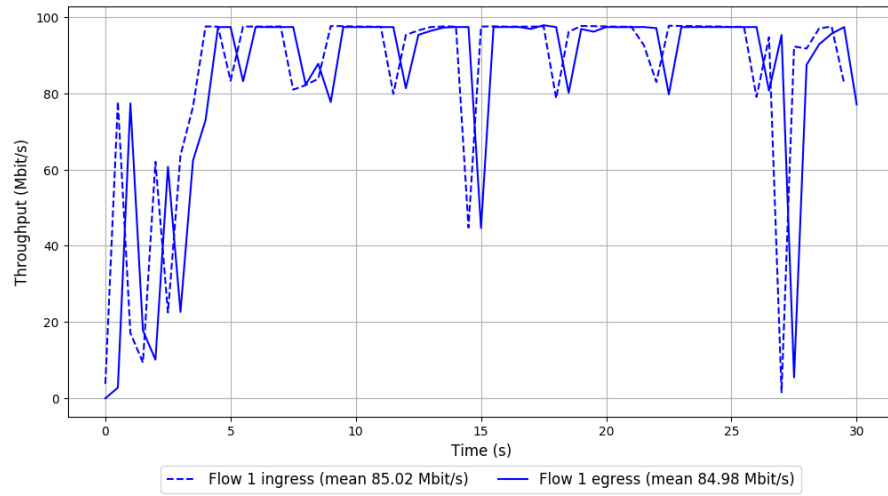
-- Flow 1:

Average throughput: 84.98 Mbit/s

95th percentile per-packet one-way delay: 35.674 ms

Loss rate: 0.23%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-05 19:58:05

End at: 2018-06-05 19:58:35

Local clock offset: 1.427 ms

Remote clock offset: -1.699 ms

Below is generated by plot.py at 2018-06-05 23:17:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.61 Mbit/s

95th percentile per-packet one-way delay: 35.720 ms

Loss rate: 0.25%

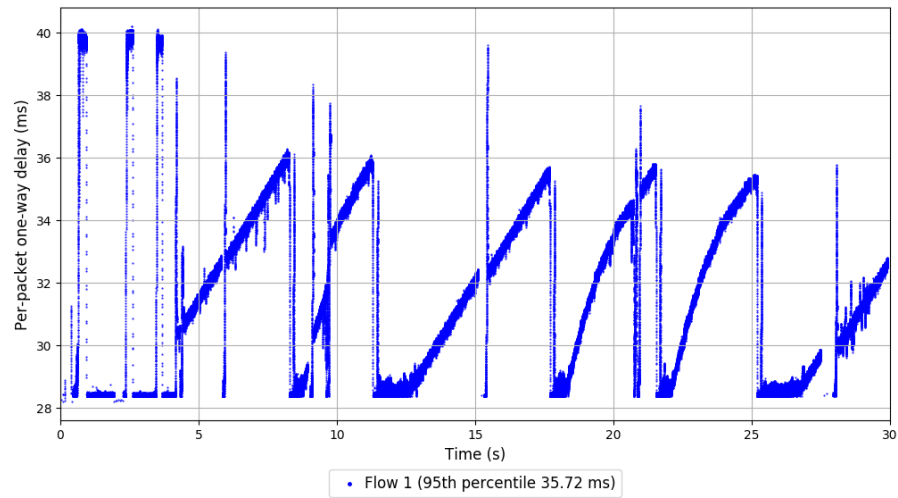
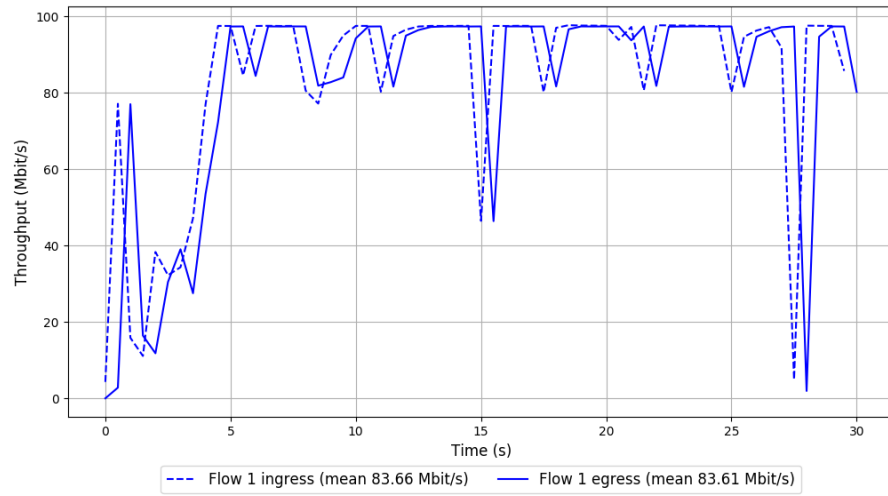
-- Flow 1:

Average throughput: 83.61 Mbit/s

95th percentile per-packet one-way delay: 35.720 ms

Loss rate: 0.25%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-05 20:19:04

End at: 2018-06-05 20:19:34

Local clock offset: 0.679 ms

Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-06-05 23:17:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.08 Mbit/s

95th percentile per-packet one-way delay: 37.016 ms

Loss rate: 0.25%

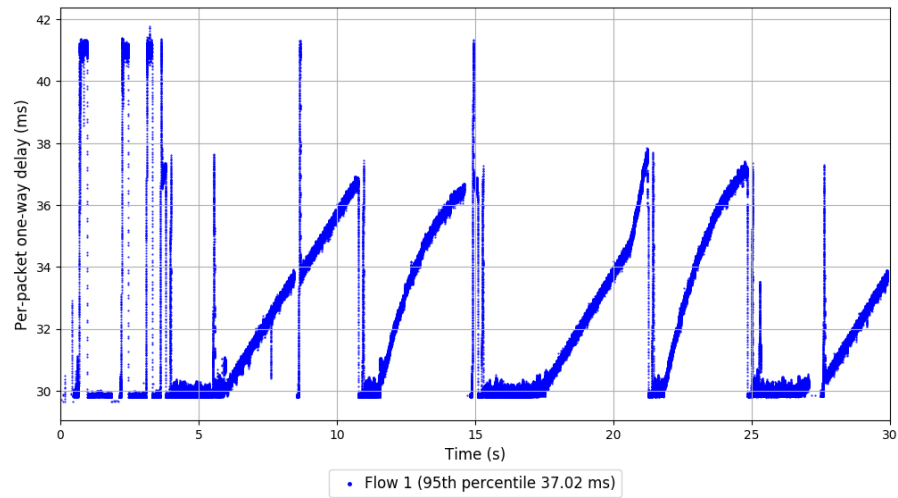
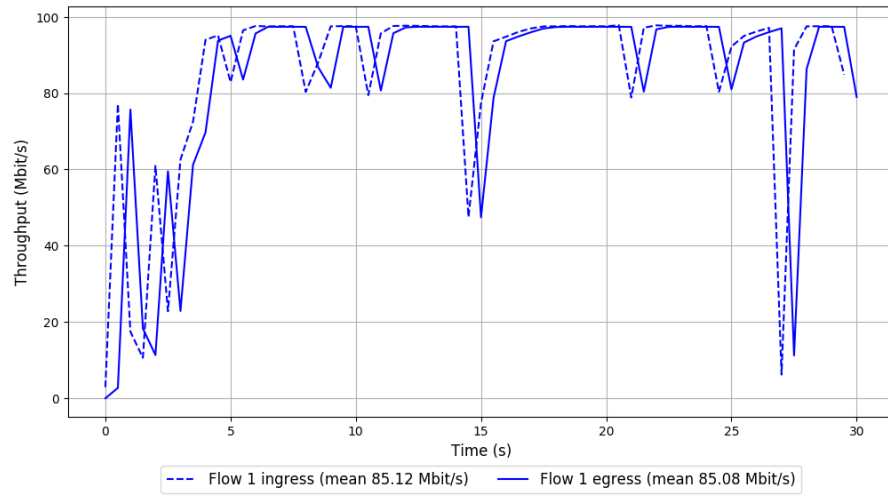
-- Flow 1:

Average throughput: 85.08 Mbit/s

95th percentile per-packet one-way delay: 37.016 ms

Loss rate: 0.25%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-05 20:40:04

End at: 2018-06-05 20:40:34

Local clock offset: 0.406 ms

Remote clock offset: -0.001 ms

Below is generated by plot.py at 2018-06-05 23:17:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.18 Mbit/s

95th percentile per-packet one-way delay: 38.536 ms

Loss rate: 0.28%

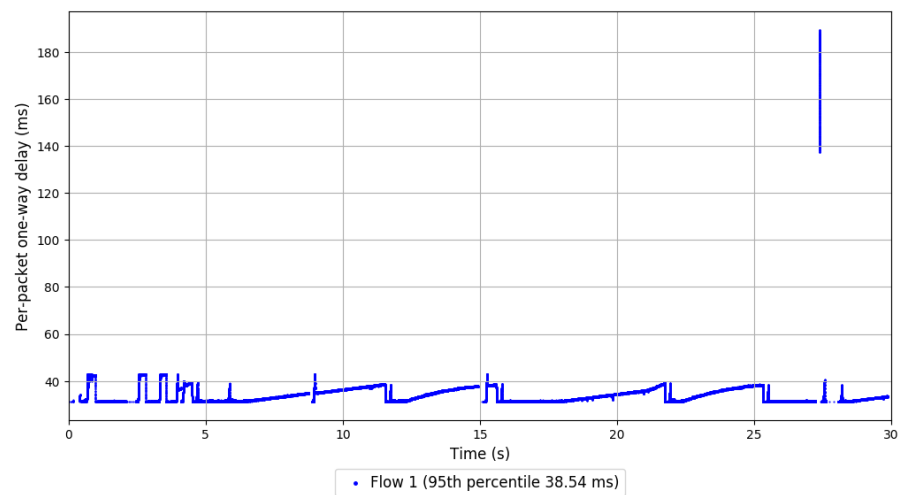
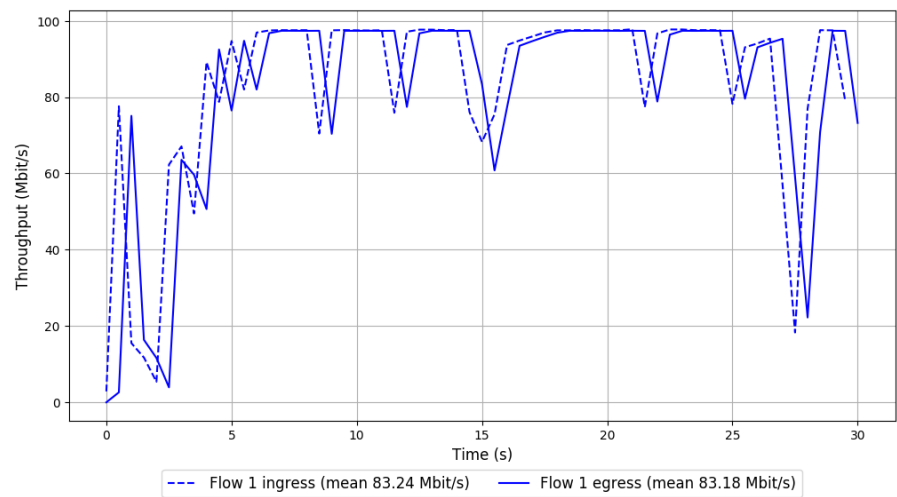
-- Flow 1:

Average throughput: 83.18 Mbit/s

95th percentile per-packet one-way delay: 38.536 ms

Loss rate: 0.28%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-06-05 21:01:03

End at: 2018-06-05 21:01:33

Local clock offset: 0.484 ms

Remote clock offset: -0.753 ms

Below is generated by plot.py at 2018-06-05 23:17:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.95 Mbit/s

95th percentile per-packet one-way delay: 37.606 ms

Loss rate: 0.24%

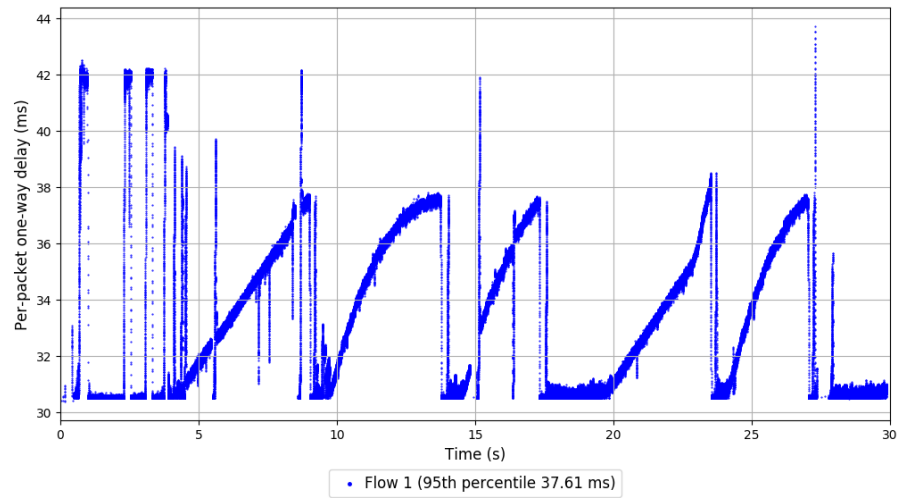
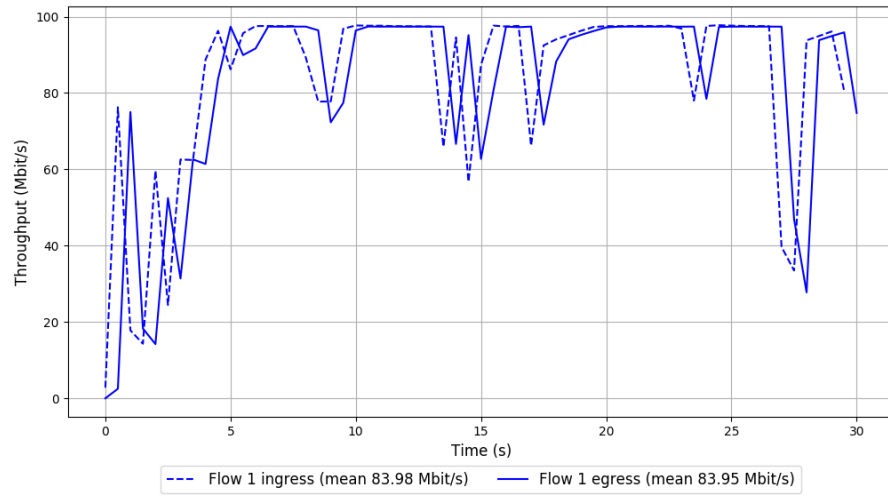
-- Flow 1:

Average throughput: 83.95 Mbit/s

95th percentile per-packet one-way delay: 37.606 ms

Loss rate: 0.24%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-06-05 21:22:03

End at: 2018-06-05 21:22:33

Local clock offset: 0.531 ms

Remote clock offset: -0.315 ms

Below is generated by plot.py at 2018-06-05 23:17:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.65 Mbit/s

95th percentile per-packet one-way delay: 37.917 ms

Loss rate: 0.23%

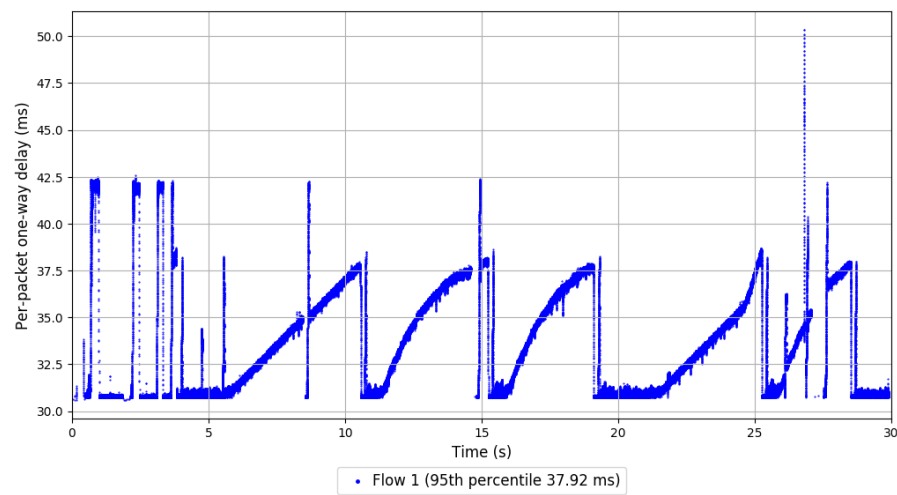
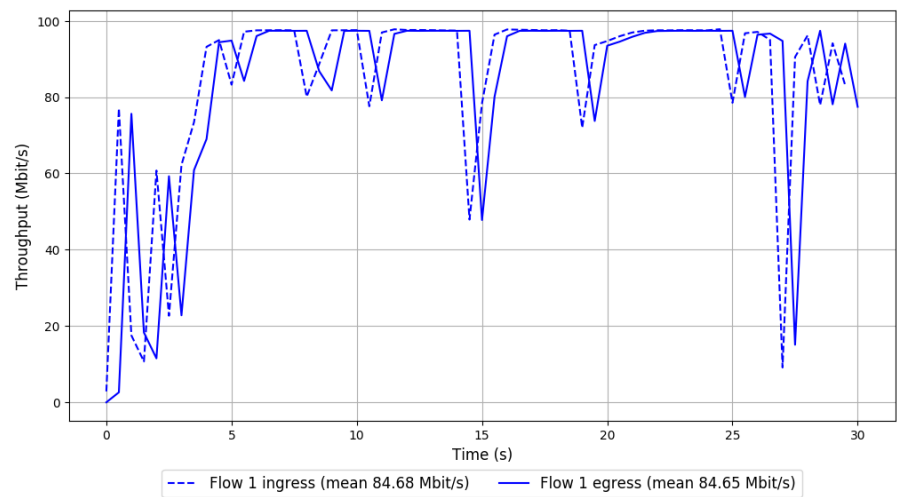
-- Flow 1:

Average throughput: 84.65 Mbit/s

95th percentile per-packet one-way delay: 37.917 ms

Loss rate: 0.23%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-06-05 21:43:06

End at: 2018-06-05 21:43:36

Local clock offset: 0.267 ms

Remote clock offset: 0.116 ms

Below is generated by plot.py at 2018-06-05 23:17:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.60 Mbit/s

95th percentile per-packet one-way delay: 38.448 ms

Loss rate: 0.25%

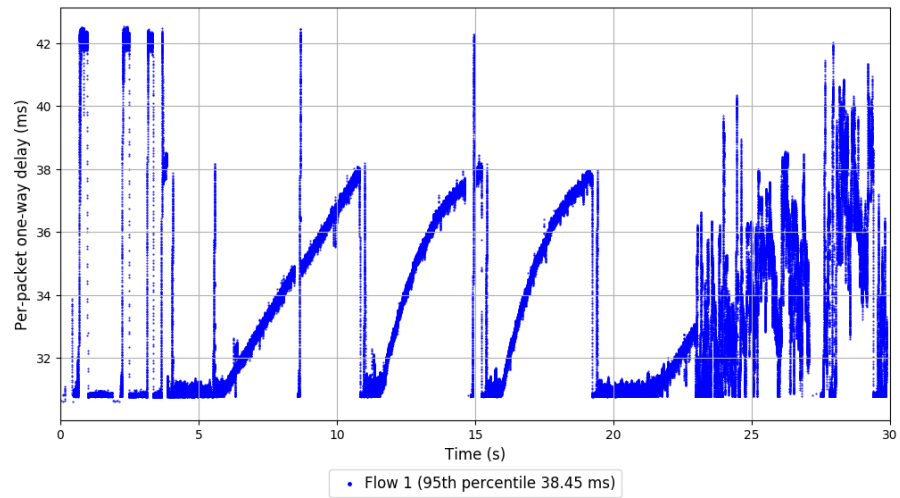
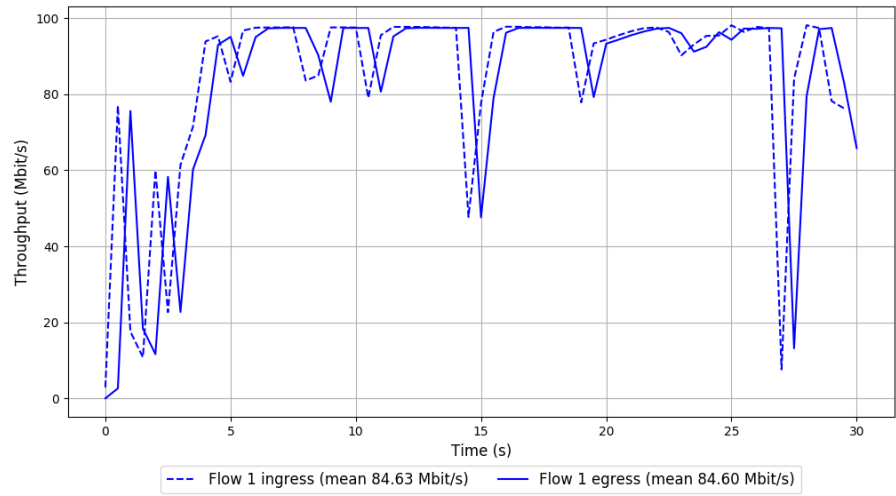
-- Flow 1:

Average throughput: 84.60 Mbit/s

95th percentile per-packet one-way delay: 38.448 ms

Loss rate: 0.25%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-05 22:04:00

End at: 2018-06-05 22:04:30

Local clock offset: 0.015 ms

Remote clock offset: -1.002 ms

Below is generated by plot.py at 2018-06-05 23:17:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.27 Mbit/s

95th percentile per-packet one-way delay: 37.015 ms

Loss rate: 0.23%

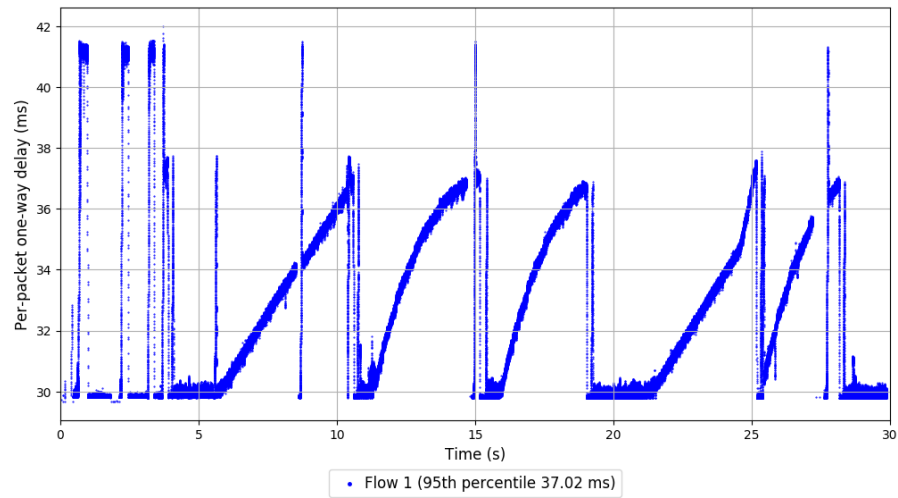
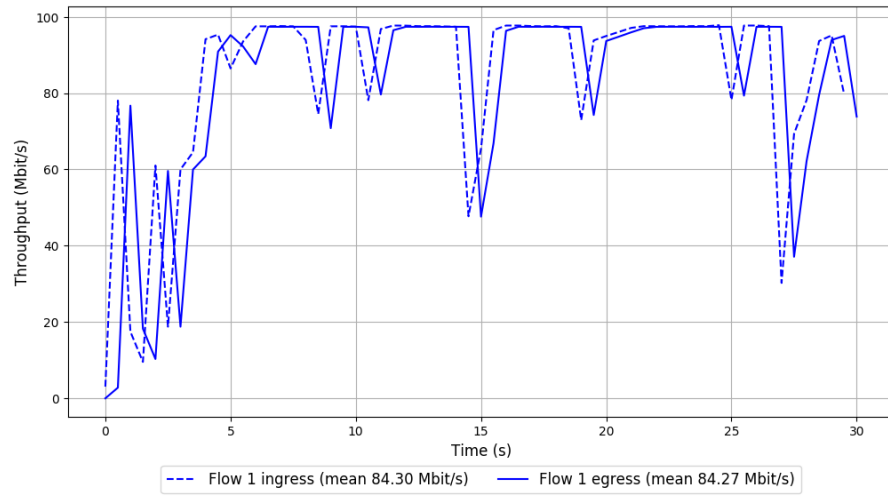
-- Flow 1:

Average throughput: 84.27 Mbit/s

95th percentile per-packet one-way delay: 37.015 ms

Loss rate: 0.23%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-06-05 22:24:58

End at: 2018-06-05 22:25:28

Local clock offset: 0.207 ms

Remote clock offset: -0.834 ms

Below is generated by plot.py at 2018-06-05 23:17:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.84 Mbit/s

95th percentile per-packet one-way delay: 32.980 ms

Loss rate: 0.24%

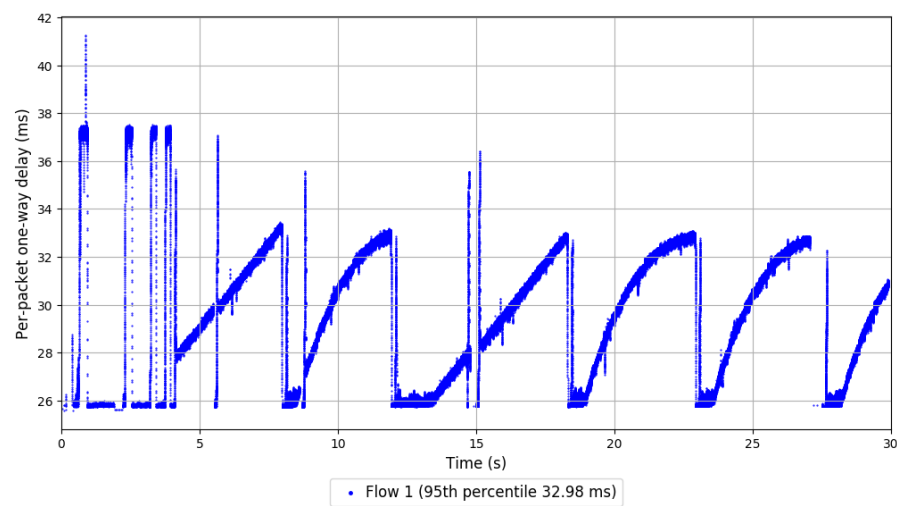
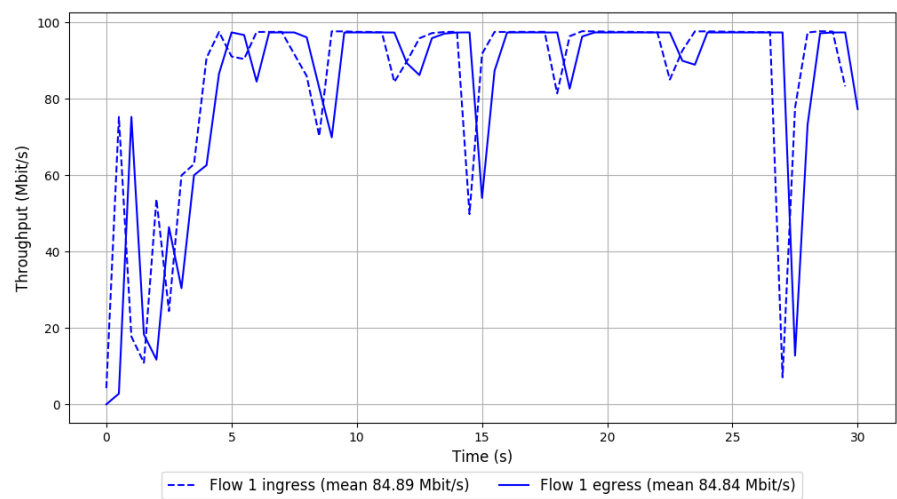
-- Flow 1:

Average throughput: 84.84 Mbit/s

95th percentile per-packet one-way delay: 32.980 ms

Loss rate: 0.24%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-06-05 22:45:54

End at: 2018-06-05 22:46:24

Local clock offset: 0.398 ms

Remote clock offset: 0.195 ms

Below is generated by plot.py at 2018-06-05 23:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.16 Mbit/s

95th percentile per-packet one-way delay: 32.415 ms

Loss rate: 0.24%

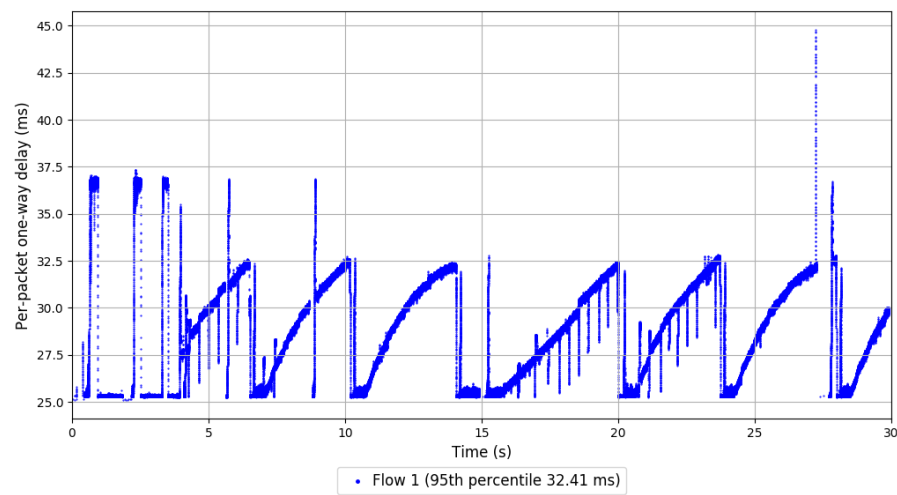
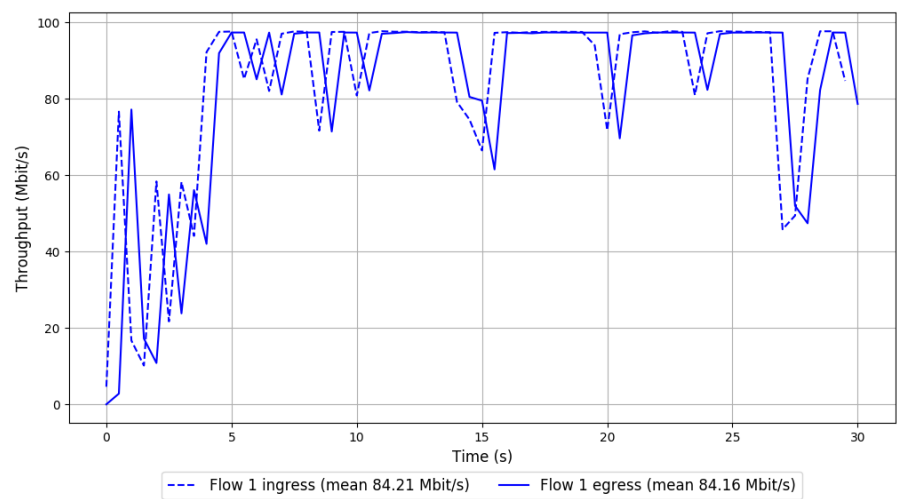
-- Flow 1:

Average throughput: 84.16 Mbit/s

95th percentile per-packet one-way delay: 32.415 ms

Loss rate: 0.24%

Run 10: Report of QUIC Cubic — Data Link

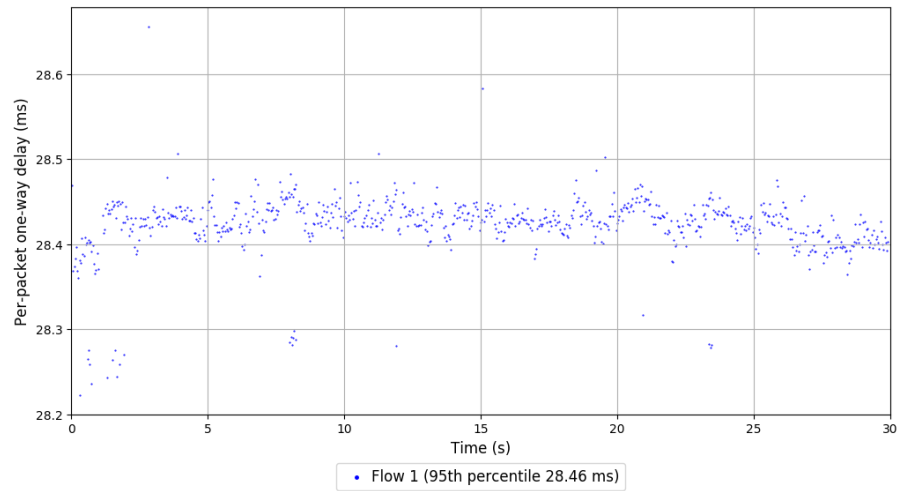
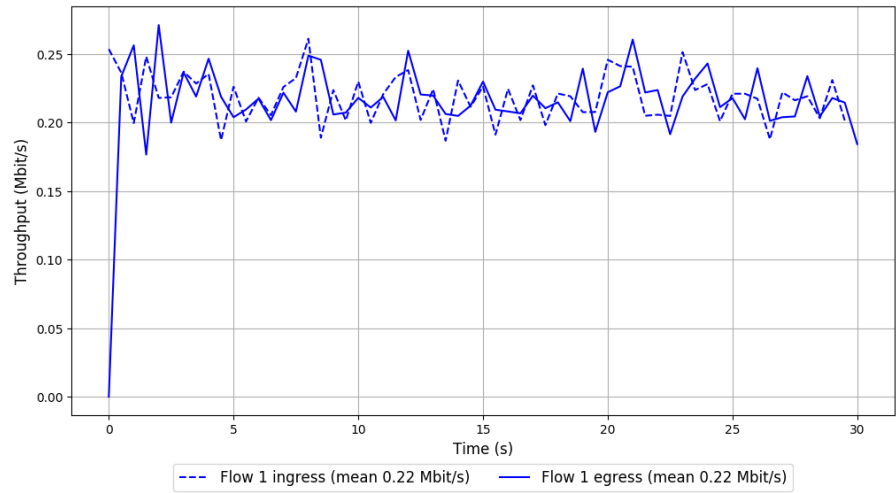


Run 1: Statistics of SCReAM

Start at: 2018-06-05 19:31:56
End at: 2018-06-05 19:32:26
Local clock offset: 1.065 ms
Remote clock offset: -2.362 ms

Below is generated by plot.py at 2018-06-05 23:17:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.459 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.459 ms
Loss rate: 0.26%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-06-05 19:52:51

End at: 2018-06-05 19:53:21

Local clock offset: 1.352 ms

Remote clock offset: 0.128 ms

Below is generated by plot.py at 2018-06-05 23:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.520 ms

Loss rate: 0.26%

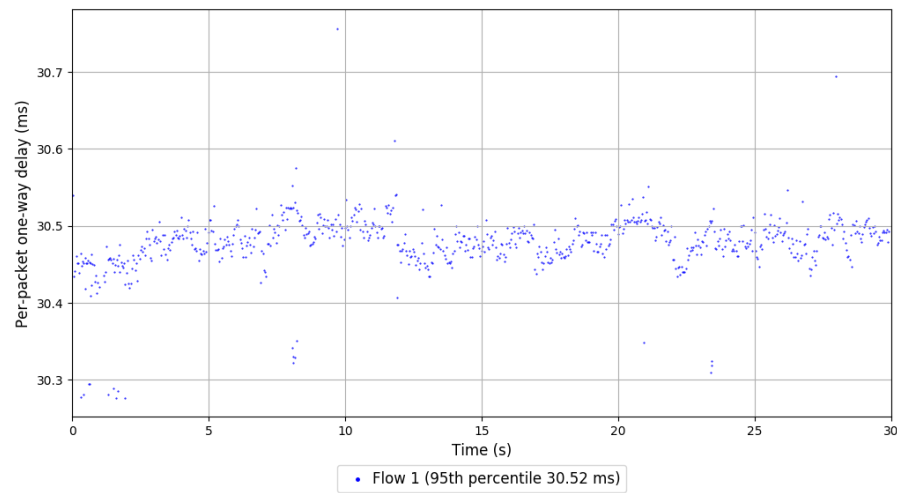
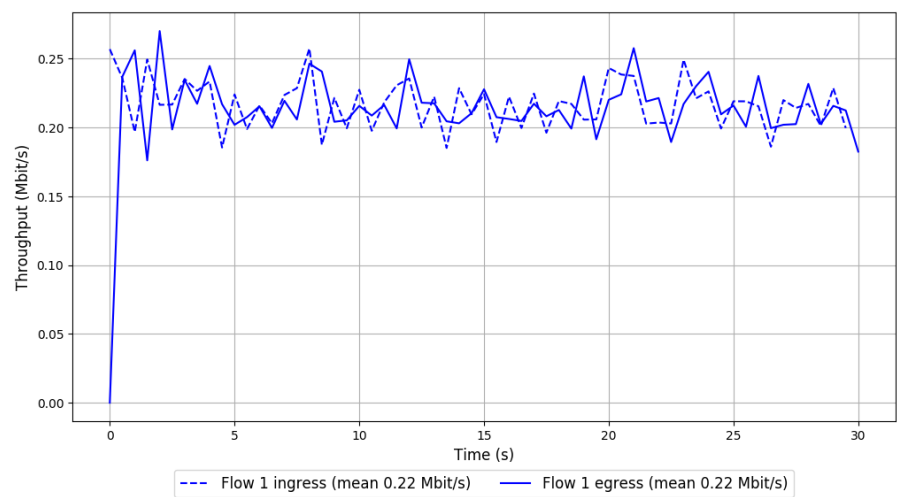
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.520 ms

Loss rate: 0.26%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-06-05 20:13:48

End at: 2018-06-05 20:14:18

Local clock offset: 0.85 ms

Remote clock offset: -2.07 ms

Below is generated by plot.py at 2018-06-05 23:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 32.148 ms

Loss rate: 0.13%

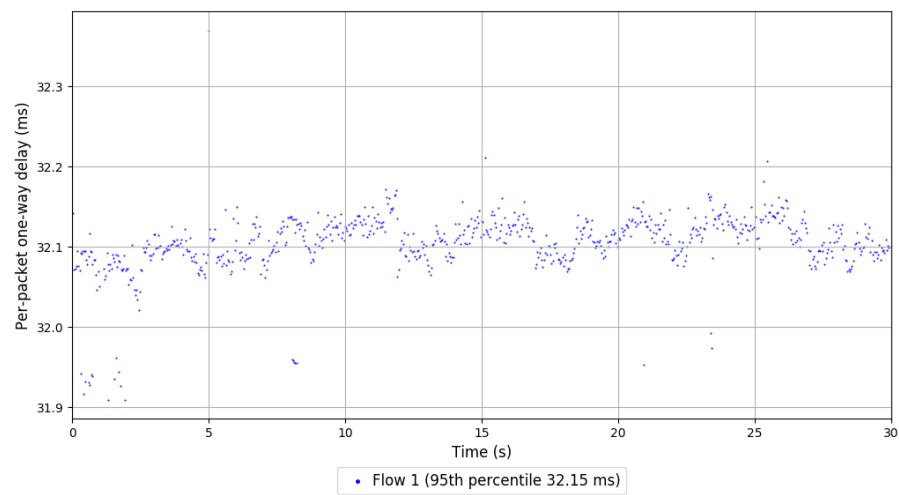
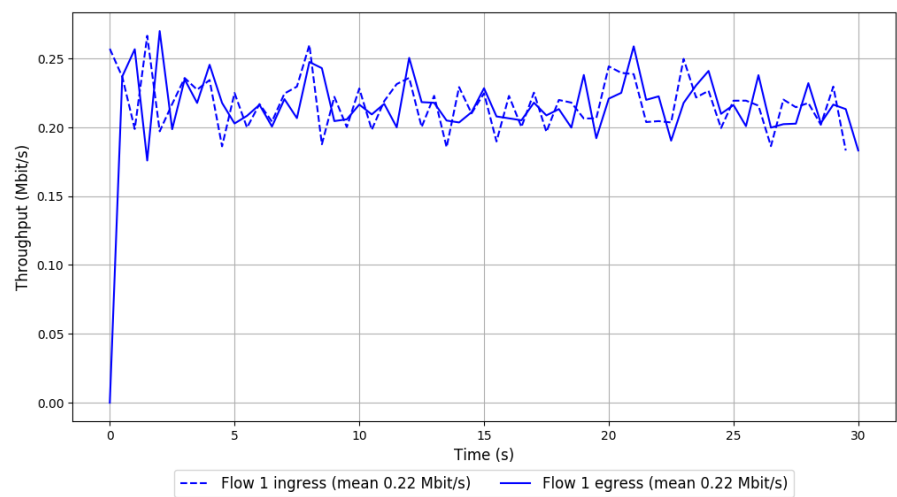
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 32.148 ms

Loss rate: 0.13%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-06-05 20:34:48

End at: 2018-06-05 20:35:18

Local clock offset: 0.459 ms

Remote clock offset: 0.667 ms

Below is generated by plot.py at 2018-06-05 23:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 25.979 ms

Loss rate: 0.26%

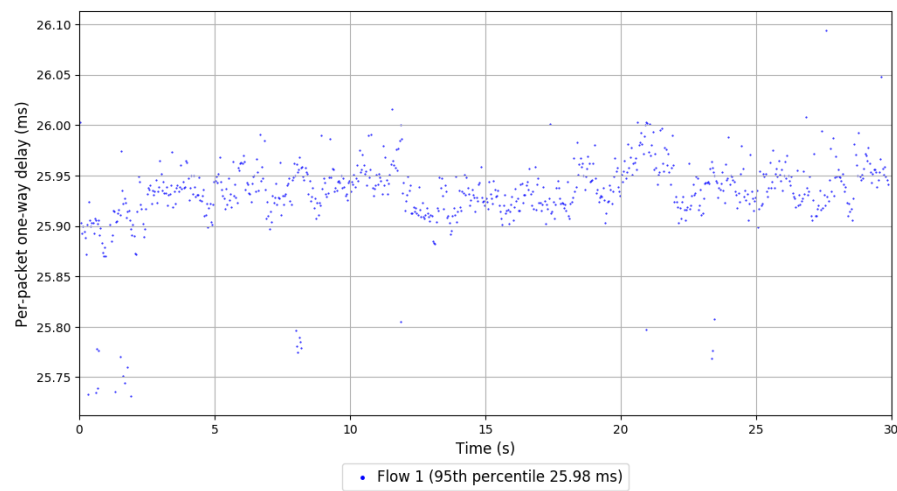
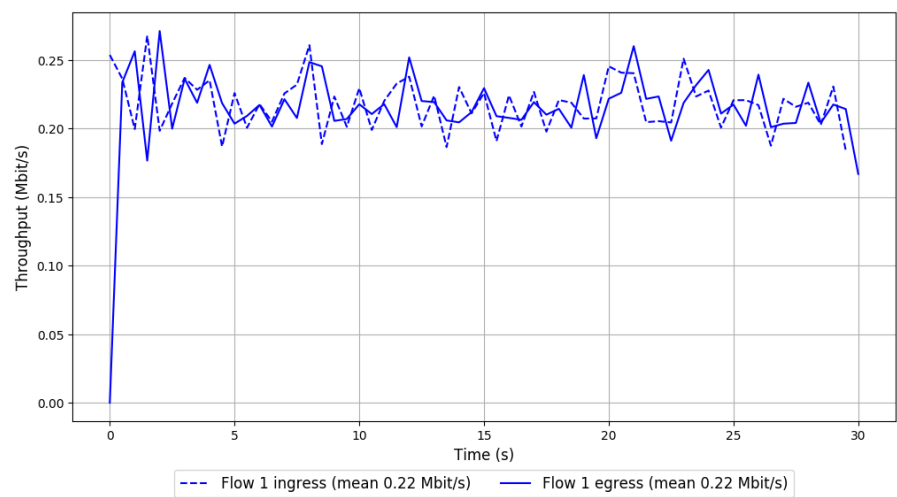
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 25.979 ms

Loss rate: 0.26%

Run 4: Report of SReAM — Data Link

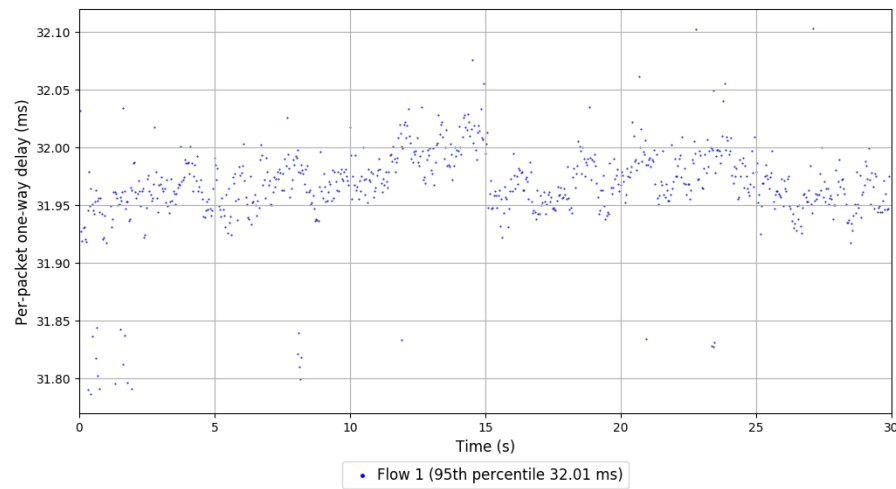
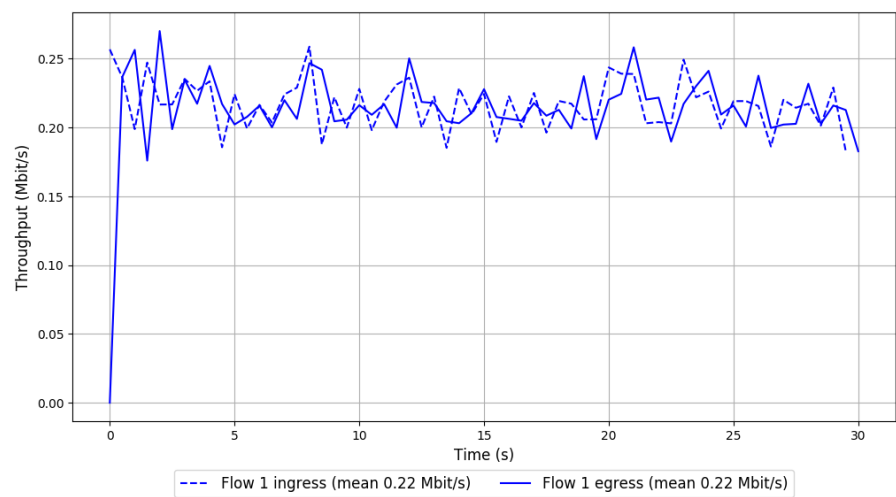


Run 5: Statistics of SCReAM

Start at: 2018-06-05 20:55:48
End at: 2018-06-05 20:56:18
Local clock offset: 0.485 ms
Remote clock offset: -2.826 ms

Below is generated by plot.py at 2018-06-05 23:17:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 32.013 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 32.013 ms
Loss rate: 0.13%

Run 5: Report of SReAM — Data Link

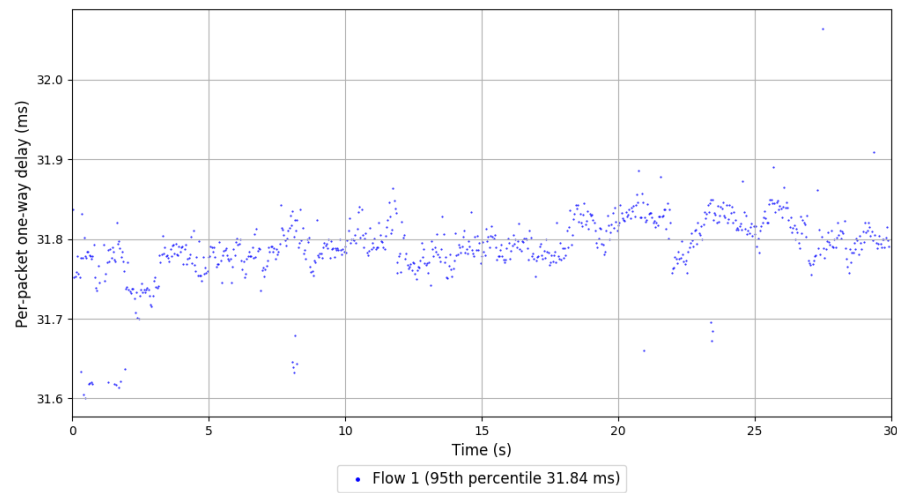
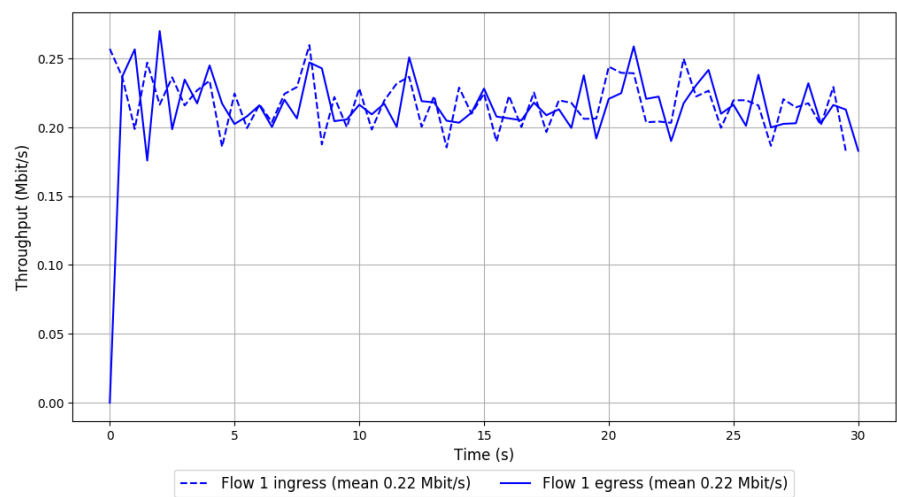


Run 6: Statistics of SCReAM

Start at: 2018-06-05 21:16:43
End at: 2018-06-05 21:17:13
Local clock offset: 0.421 ms
Remote clock offset: -2.513 ms

Below is generated by plot.py at 2018-06-05 23:17:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.841 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.841 ms
Loss rate: 0.13%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-06-05 21:37:51

End at: 2018-06-05 21:38:21

Local clock offset: 0.267 ms

Remote clock offset: -2.1 ms

Below is generated by plot.py at 2018-06-05 23:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.569 ms

Loss rate: 0.13%

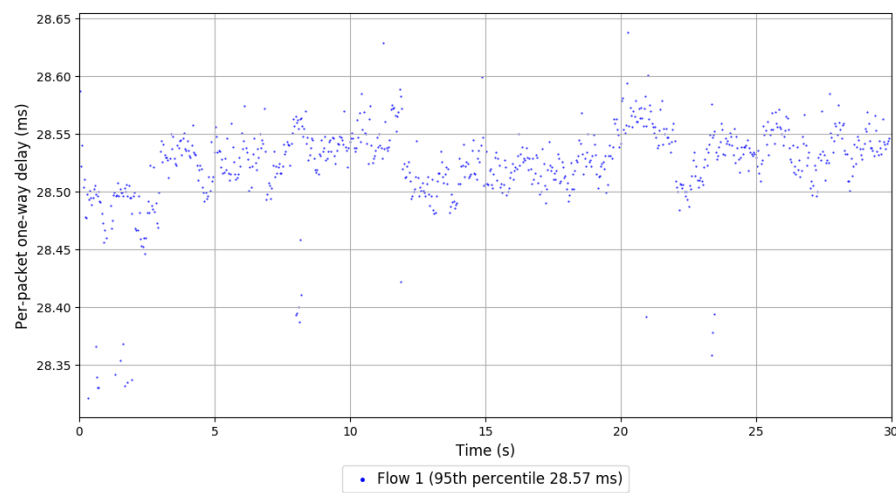
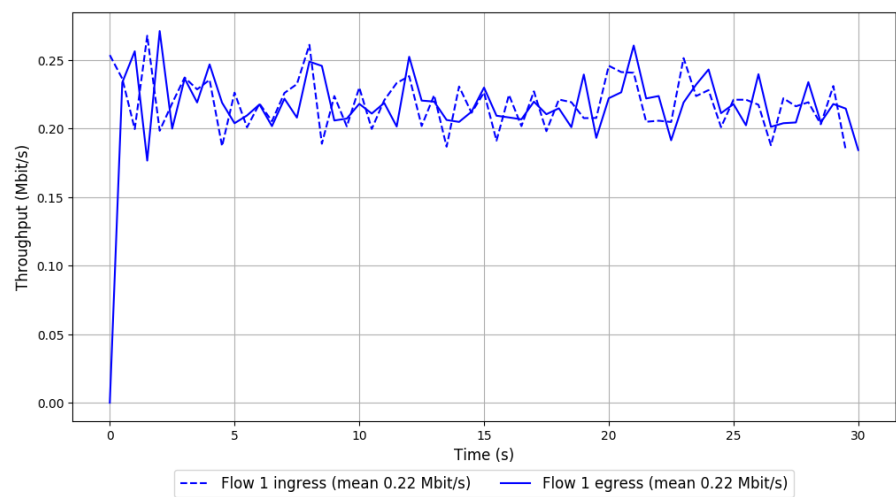
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.569 ms

Loss rate: 0.13%

Run 7: Report of SReAM — Data Link

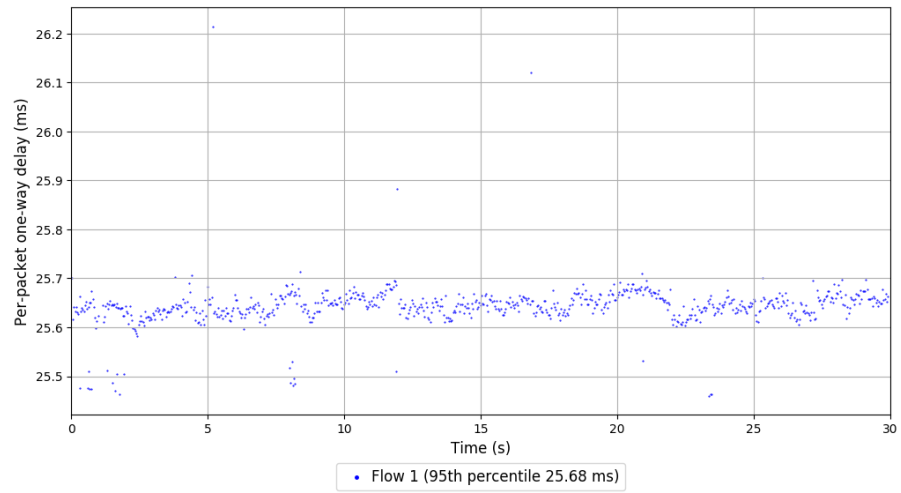
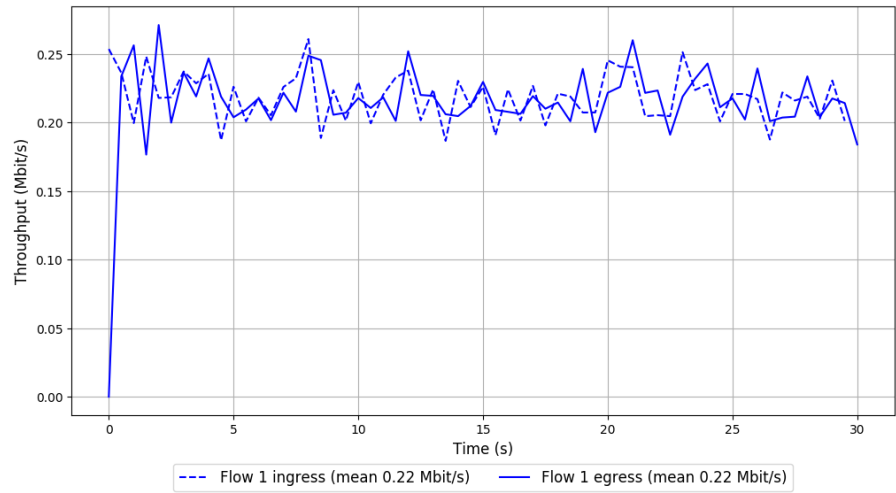


Run 8: Statistics of SCReAM

Start at: 2018-06-05 21:58:46
End at: 2018-06-05 21:59:16
Local clock offset: -0.046 ms
Remote clock offset: -0.856 ms

Below is generated by plot.py at 2018-06-05 23:17:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 25.680 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 25.680 ms
Loss rate: 0.26%

Run 8: Report of SReAM — Data Link

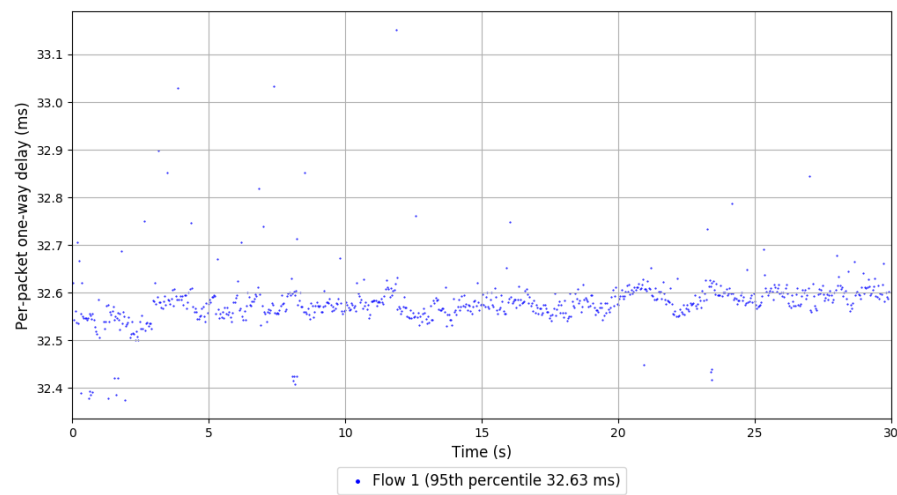
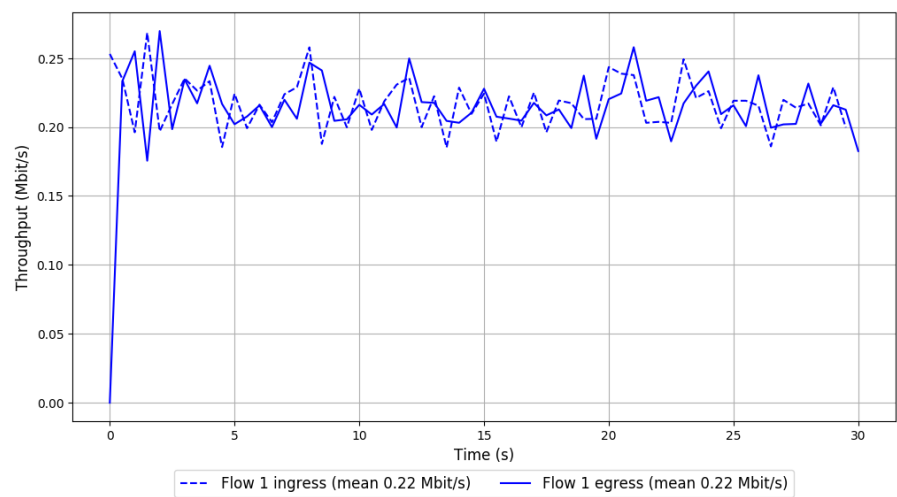


Run 9: Statistics of SCReAM

Start at: 2018-06-05 22:19:43
End at: 2018-06-05 22:20:13
Local clock offset: 0.202 ms
Remote clock offset: -3.207 ms

Below is generated by plot.py at 2018-06-05 23:17:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 32.628 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 32.628 ms
Loss rate: 0.26%

Run 9: Report of SReAM — Data Link

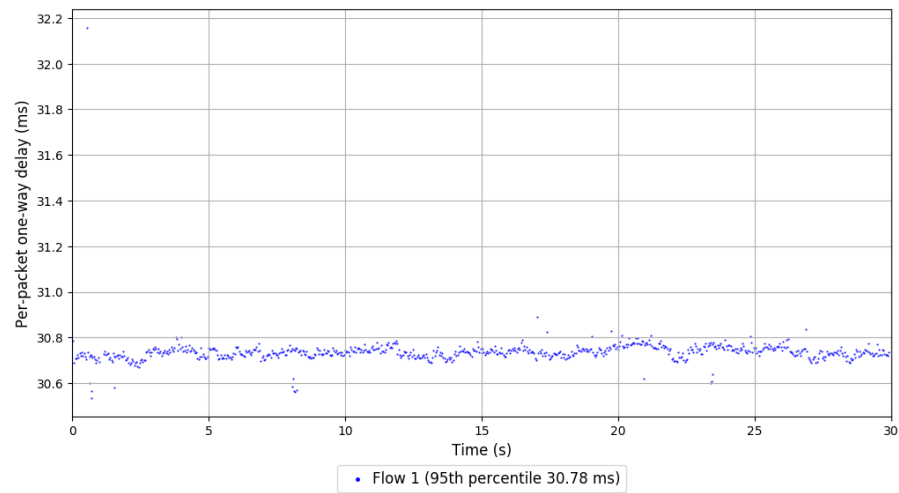
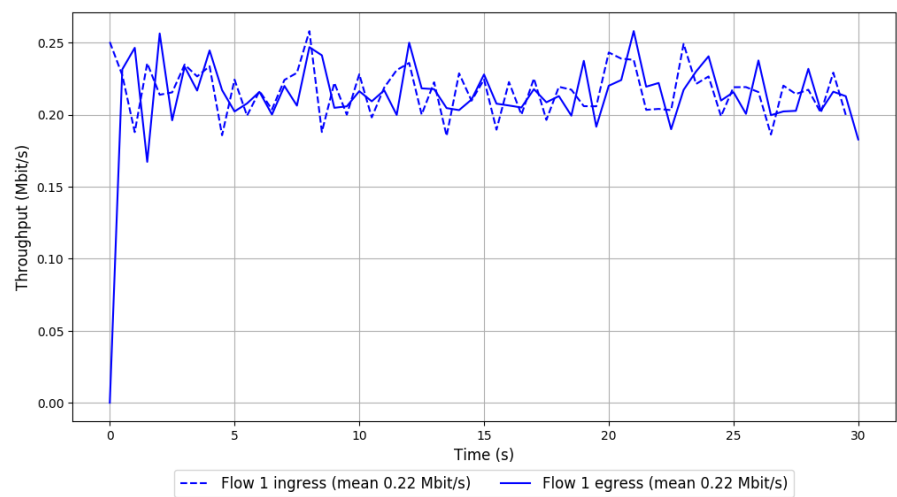


Run 10: Statistics of SReAM

Start at: 2018-06-05 22:40:40
End at: 2018-06-05 22:41:10
Local clock offset: 0.353 ms
Remote clock offset: -0.354 ms

Below is generated by plot.py at 2018-06-05 23:17:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.776 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.776 ms
Loss rate: 0.26%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-06-05 19:49:00

End at: 2018-06-05 19:49:30

Local clock offset: 1.296 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2018-06-05 23:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.32 Mbit/s

95th percentile per-packet one-way delay: 32.700 ms

Loss rate: 0.23%

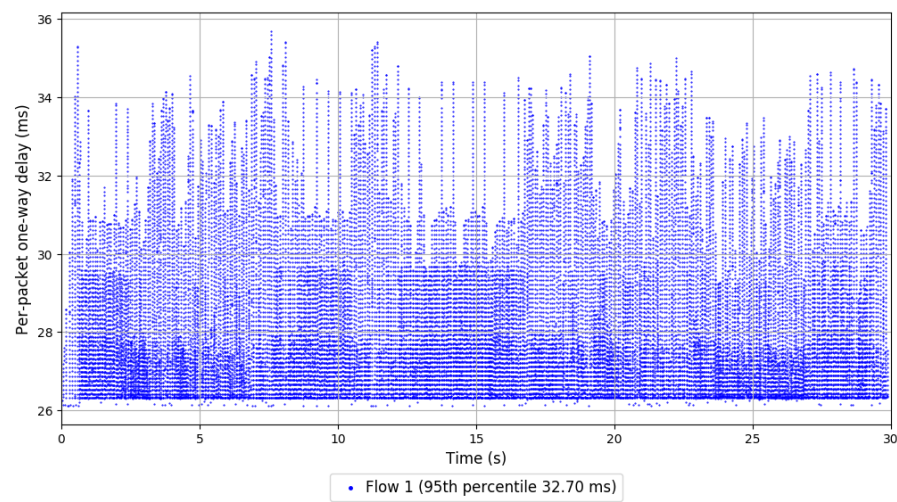
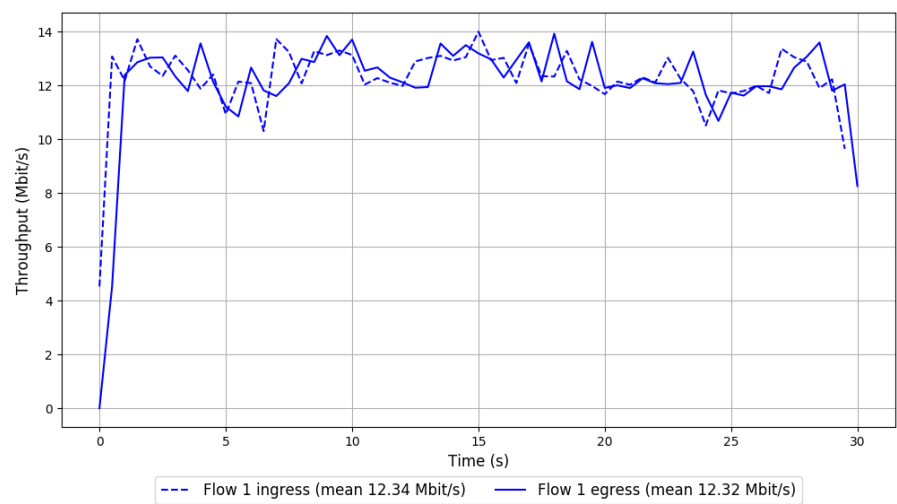
-- Flow 1:

Average throughput: 12.32 Mbit/s

95th percentile per-packet one-way delay: 32.700 ms

Loss rate: 0.23%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-06-05 20:09:55

End at: 2018-06-05 20:10:25

Local clock offset: 1.081 ms

Remote clock offset: 0.288 ms

Below is generated by plot.py at 2018-06-05 23:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.08 Mbit/s

95th percentile per-packet one-way delay: 32.720 ms

Loss rate: 0.27%

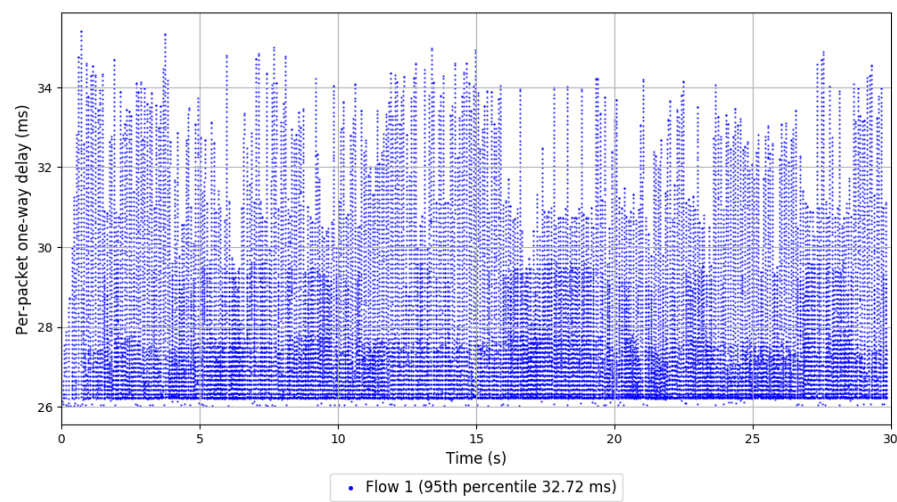
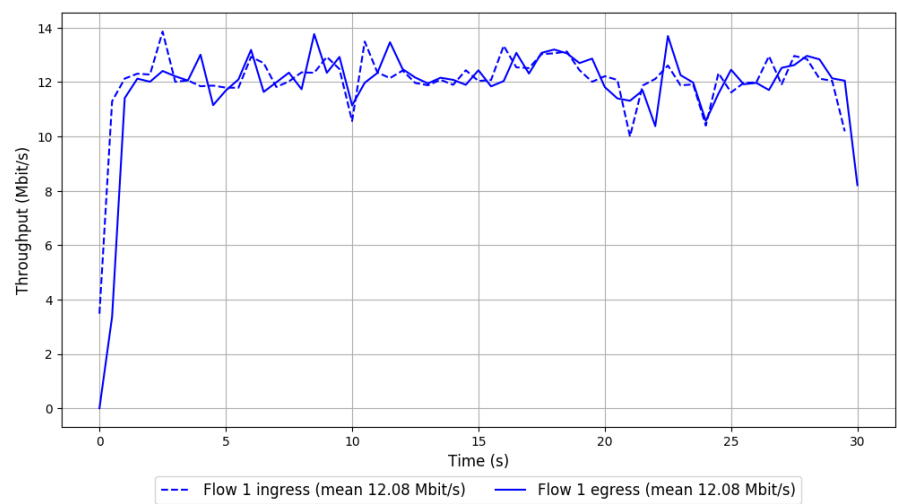
-- Flow 1:

Average throughput: 12.08 Mbit/s

95th percentile per-packet one-way delay: 32.720 ms

Loss rate: 0.27%

Run 2: Report of Sprout — Data Link

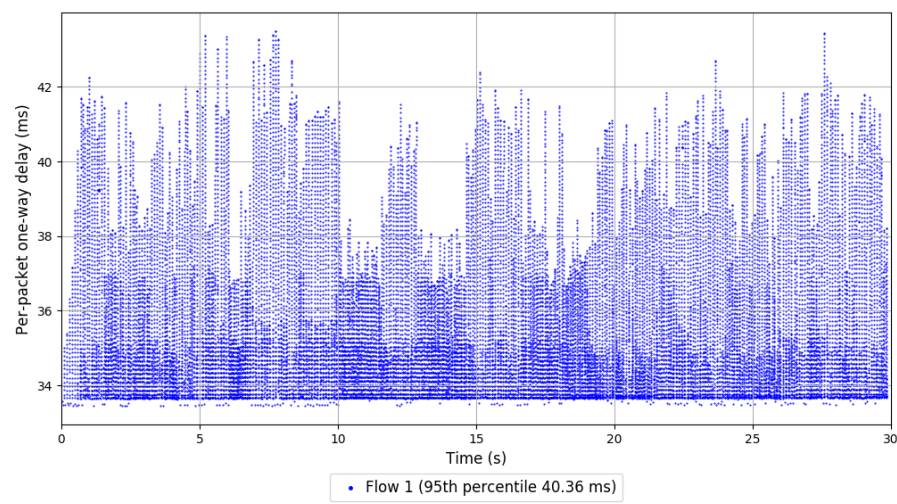
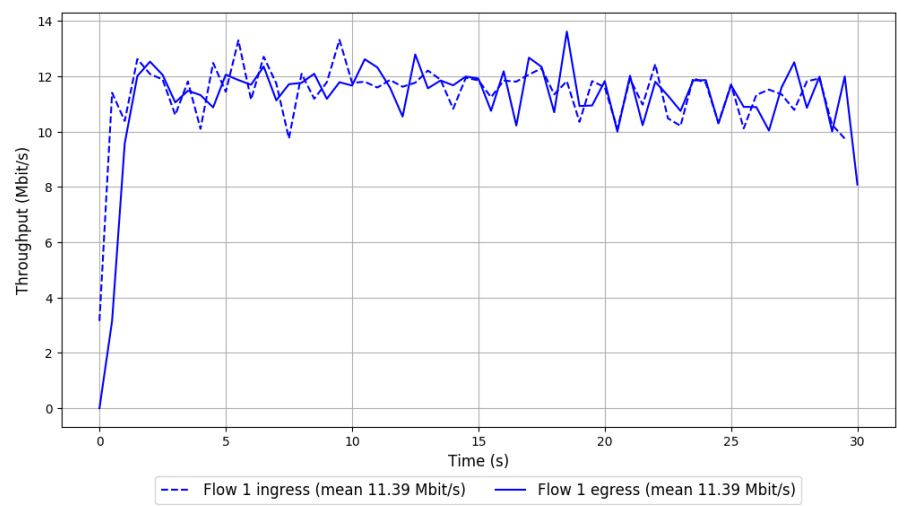


Run 3: Statistics of Sprout

Start at: 2018-06-05 20:30:56
End at: 2018-06-05 20:31:26
Local clock offset: 0.495 ms
Remote clock offset: -1.899 ms

Below is generated by plot.py at 2018-06-05 23:17:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.39 Mbit/s
95th percentile per-packet one-way delay: 40.358 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 11.39 Mbit/s
95th percentile per-packet one-way delay: 40.358 ms
Loss rate: 0.29%

Run 3: Report of Sprout — Data Link

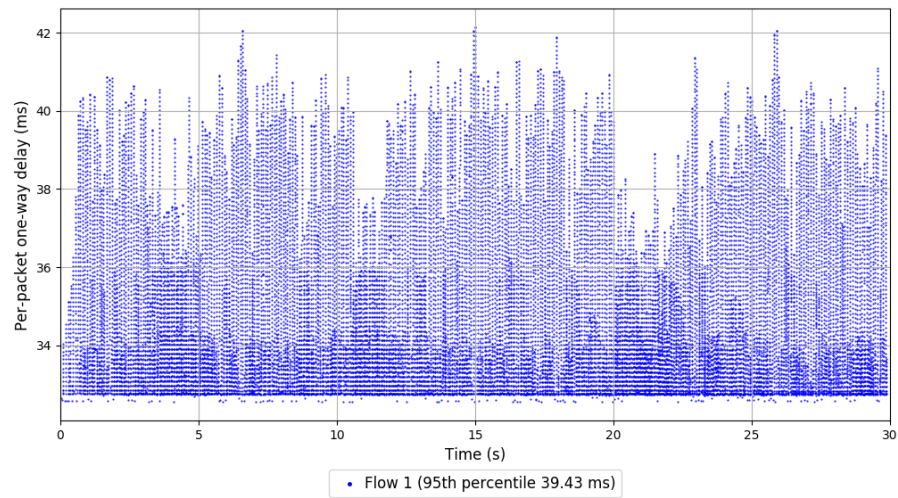
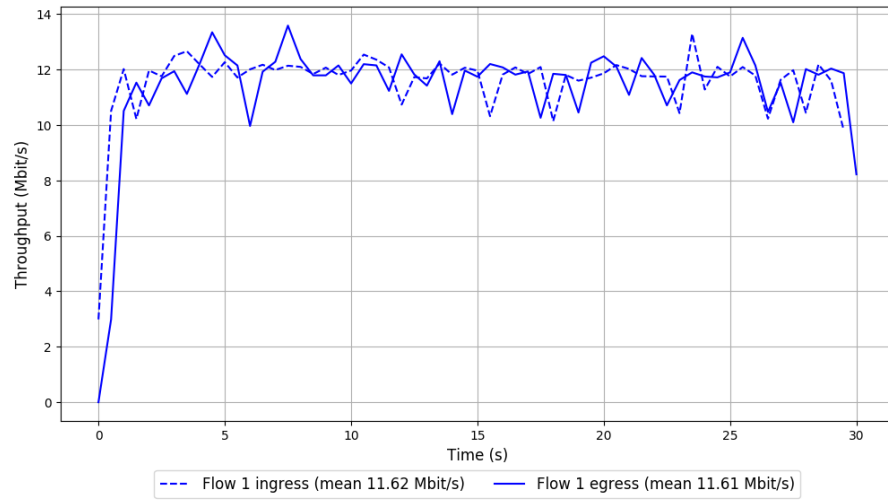


Run 4: Statistics of Sprout

Start at: 2018-06-05 20:51:57
End at: 2018-06-05 20:52:27
Local clock offset: 0.514 ms
Remote clock offset: -2.639 ms

Below is generated by plot.py at 2018-06-05 23:17:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.61 Mbit/s
95th percentile per-packet one-way delay: 39.434 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 11.61 Mbit/s
95th percentile per-packet one-way delay: 39.434 ms
Loss rate: 0.26%

Run 4: Report of Sprout — Data Link

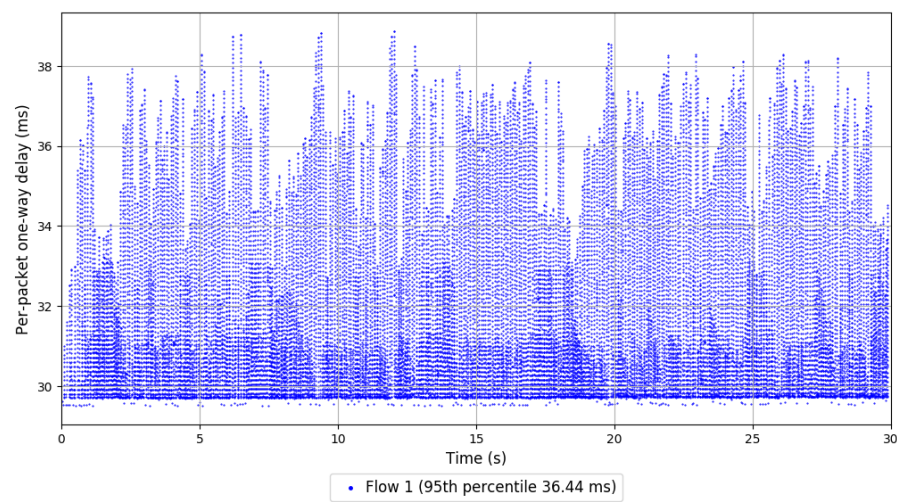
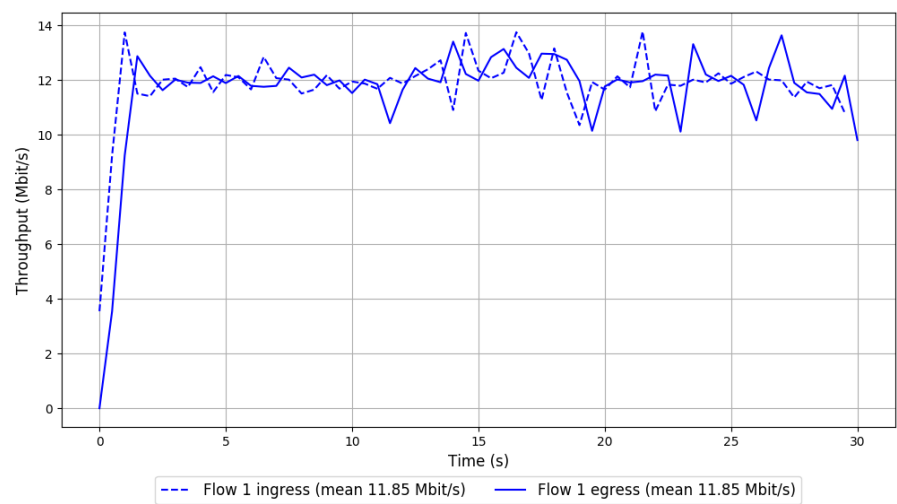


Run 5: Statistics of Sprout

Start at: 2018-06-05 21:12:52
End at: 2018-06-05 21:13:22
Local clock offset: 0.417 ms
Remote clock offset: -0.621 ms

Below is generated by plot.py at 2018-06-05 23:17:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.85 Mbit/s
95th percentile per-packet one-way delay: 36.440 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 11.85 Mbit/s
95th percentile per-packet one-way delay: 36.440 ms
Loss rate: 0.28%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-06-05 21:33:53

End at: 2018-06-05 21:34:23

Local clock offset: 0.479 ms

Remote clock offset: 0.461 ms

Below is generated by plot.py at 2018-06-05 23:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.05 Mbit/s

95th percentile per-packet one-way delay: 32.731 ms

Loss rate: 0.23%

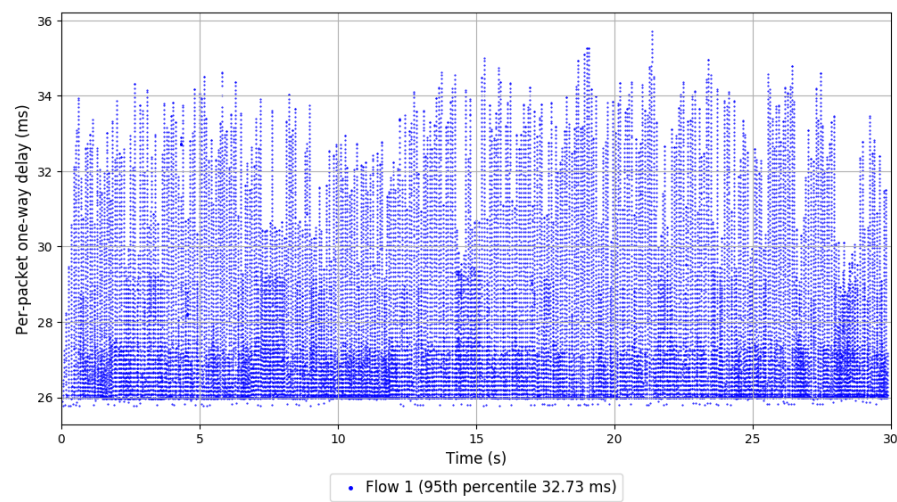
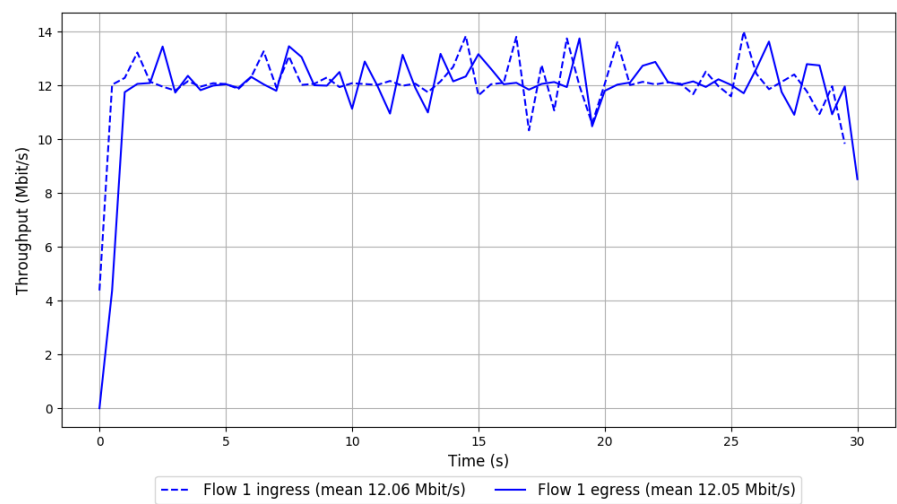
-- Flow 1:

Average throughput: 12.05 Mbit/s

95th percentile per-packet one-way delay: 32.731 ms

Loss rate: 0.23%

Run 6: Report of Sprout — Data Link

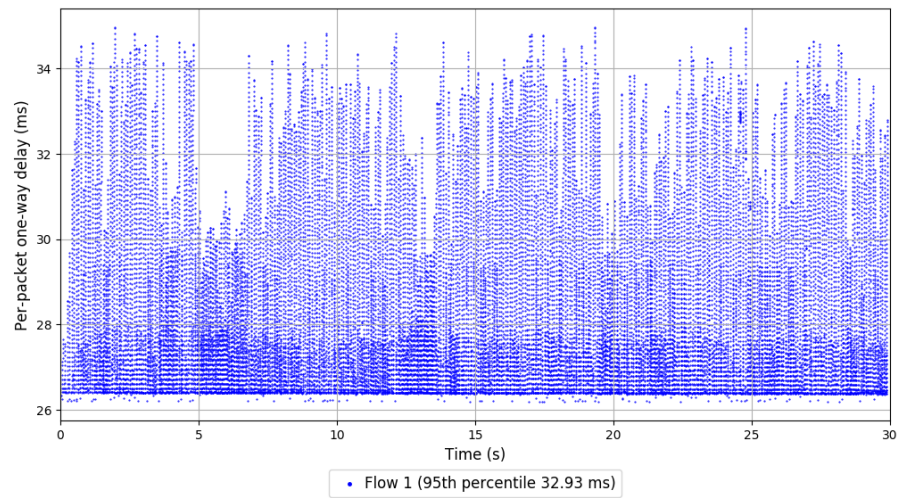
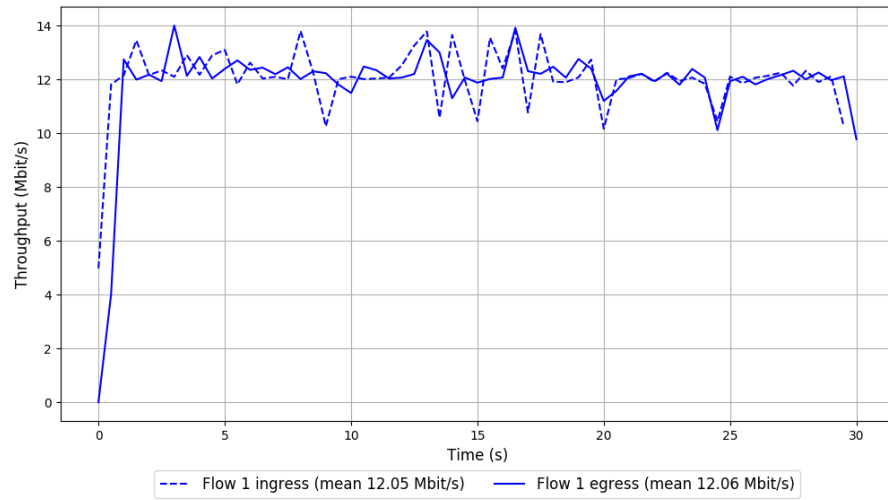


Run 7: Statistics of Sprout

Start at: 2018-06-05 21:54:55
End at: 2018-06-05 21:55:25
Local clock offset: 0.095 ms
Remote clock offset: -0.628 ms

Below is generated by plot.py at 2018-06-05 23:17:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.06 Mbit/s
95th percentile per-packet one-way delay: 32.927 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 12.06 Mbit/s
95th percentile per-packet one-way delay: 32.927 ms
Loss rate: 0.07%

Run 7: Report of Sprout — Data Link

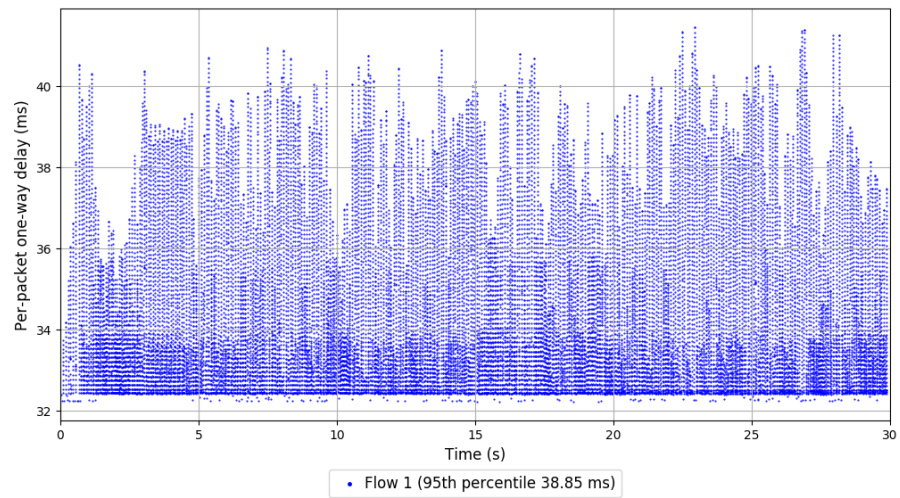
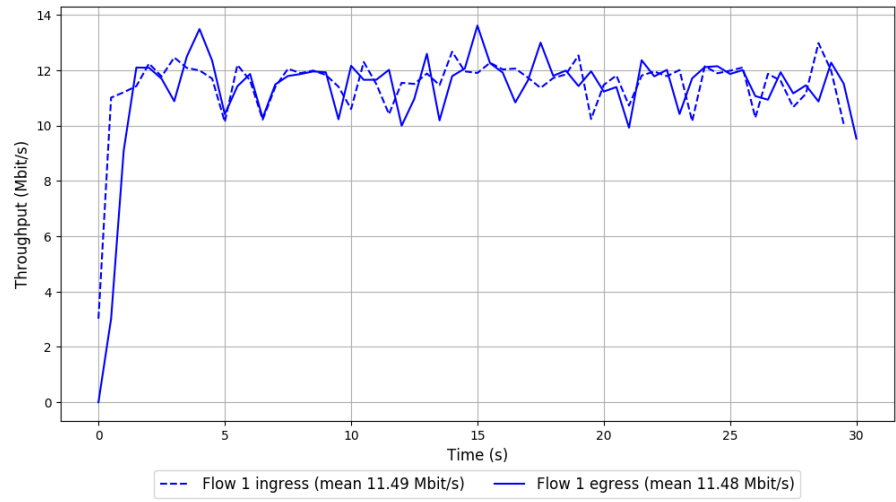


Run 8: Statistics of Sprout

Start at: 2018-06-05 22:15:51
End at: 2018-06-05 22:16:21
Local clock offset: 0.095 ms
Remote clock offset: -3.124 ms

Below is generated by plot.py at 2018-06-05 23:17:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.48 Mbit/s
95th percentile per-packet one-way delay: 38.853 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 11.48 Mbit/s
95th percentile per-packet one-way delay: 38.853 ms
Loss rate: 0.29%

Run 8: Report of Sprout — Data Link

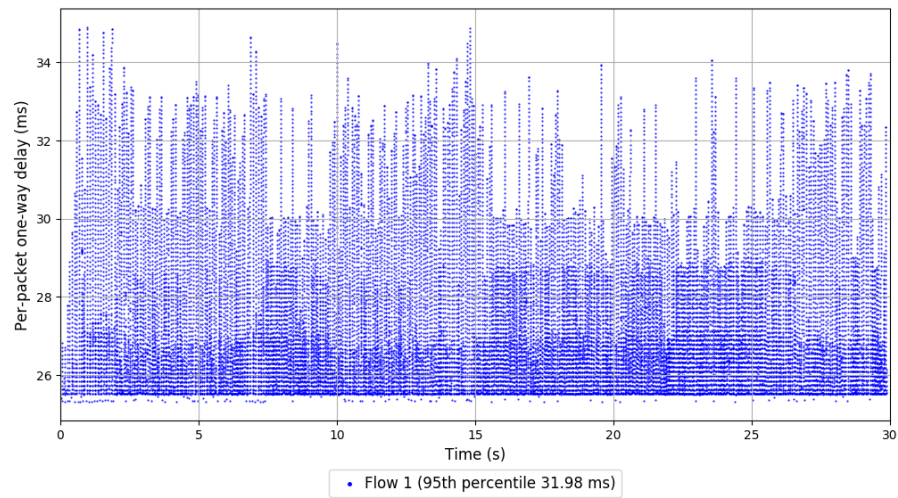
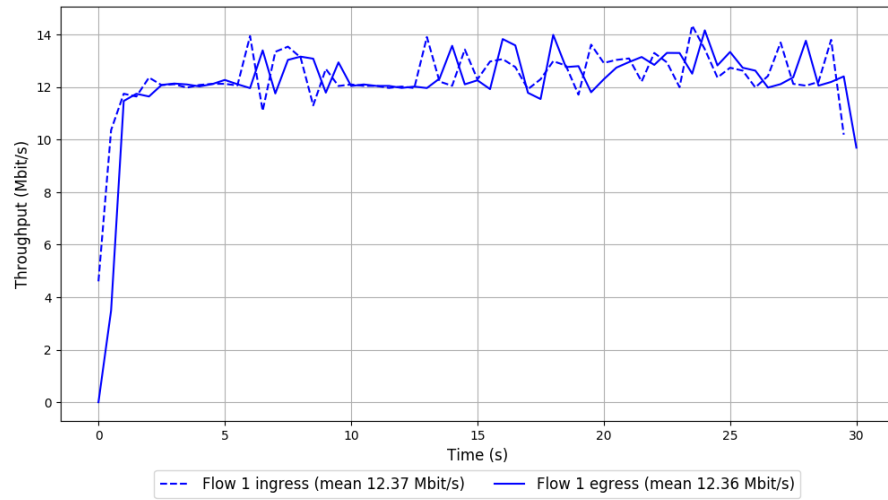


Run 9: Statistics of Sprout

Start at: 2018-06-05 22:36:49
End at: 2018-06-05 22:37:19
Local clock offset: 0.277 ms
Remote clock offset: -0.373 ms

Below is generated by plot.py at 2018-06-05 23:17:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.36 Mbit/s
95th percentile per-packet one-way delay: 31.979 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 12.36 Mbit/s
95th percentile per-packet one-way delay: 31.979 ms
Loss rate: 0.26%

Run 9: Report of Sprout — Data Link

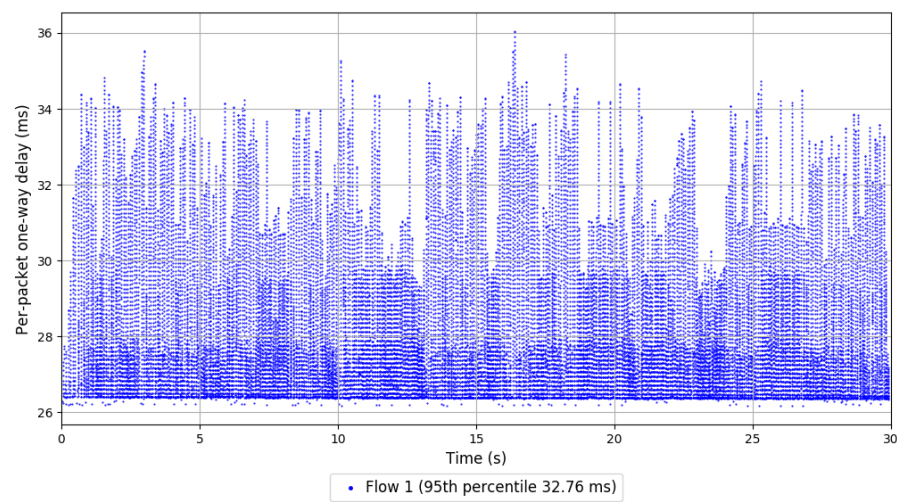
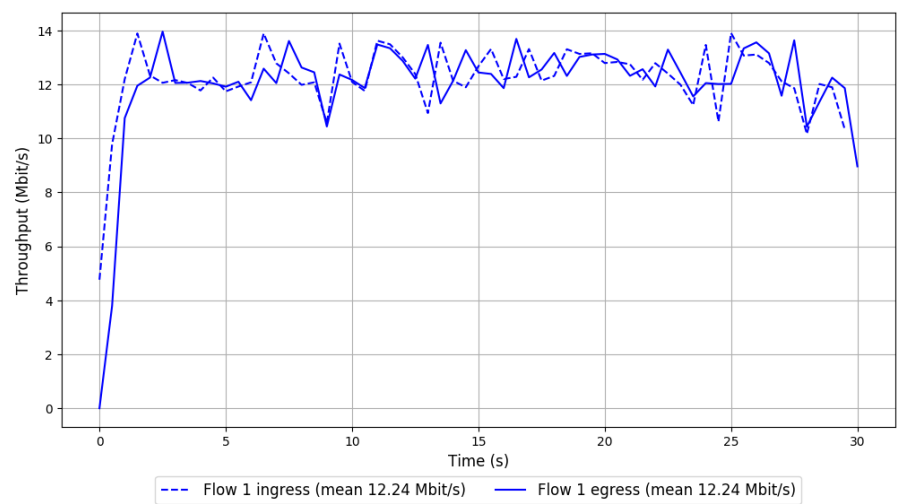


Run 10: Statistics of Sprout

Start at: 2018-06-05 22:57:41
End at: 2018-06-05 22:58:11
Local clock offset: 0.471 ms
Remote clock offset: -0.431 ms

Below is generated by plot.py at 2018-06-05 23:17:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.24 Mbit/s
95th percentile per-packet one-way delay: 32.759 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 12.24 Mbit/s
95th percentile per-packet one-way delay: 32.759 ms
Loss rate: 0.19%

Run 10: Report of Sprout — Data Link

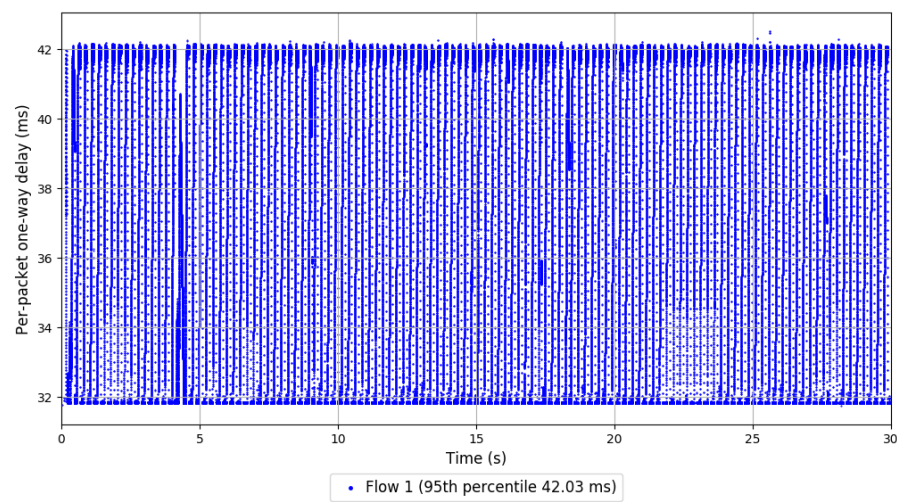
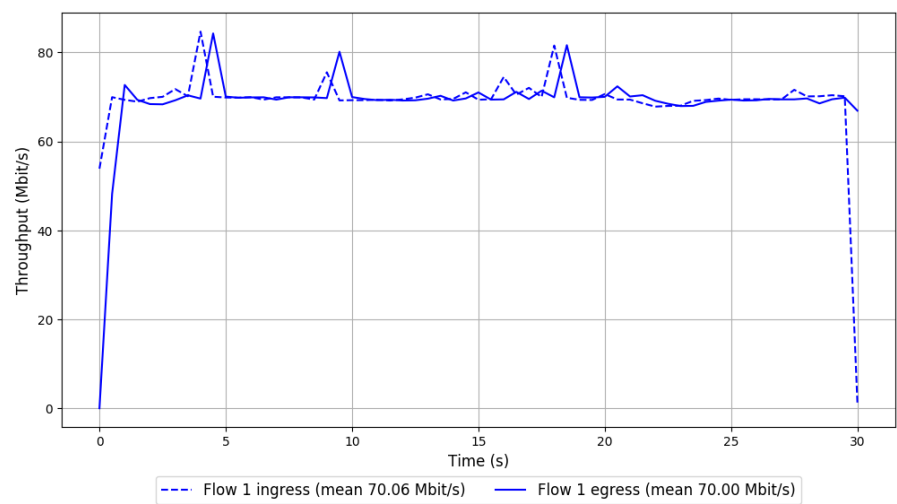


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-05 19:34:32
End at: 2018-06-05 19:35:02
Local clock offset: 1.2 ms
Remote clock offset: -2.29 ms

# Below is generated by plot.py at 2018-06-05 23:19:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.00 Mbit/s
95th percentile per-packet one-way delay: 42.027 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 70.00 Mbit/s
95th percentile per-packet one-way delay: 42.027 ms
Loss rate: 0.29%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-06-05 19:55:27

End at: 2018-06-05 19:55:57

Local clock offset: 1.38 ms

Remote clock offset: 0.189 ms

Below is generated by plot.py at 2018-06-05 23:19:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.07 Mbit/s

95th percentile per-packet one-way delay: 39.924 ms

Loss rate: 0.11%

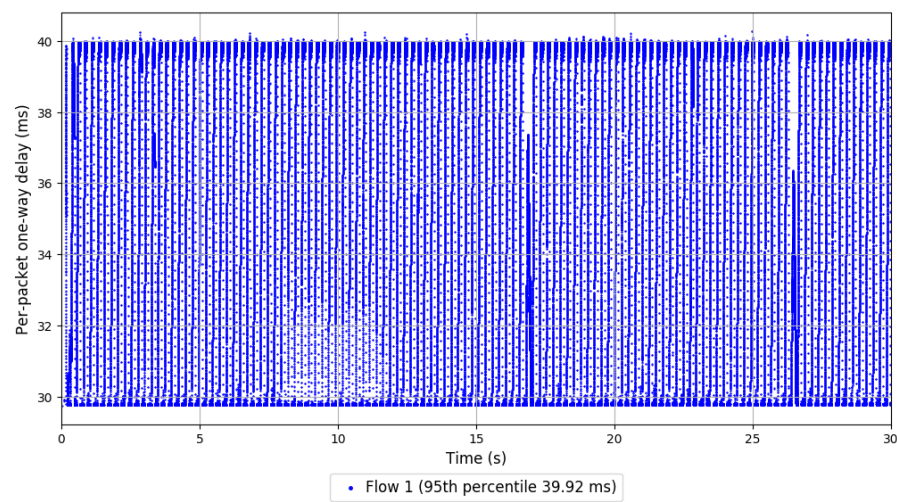
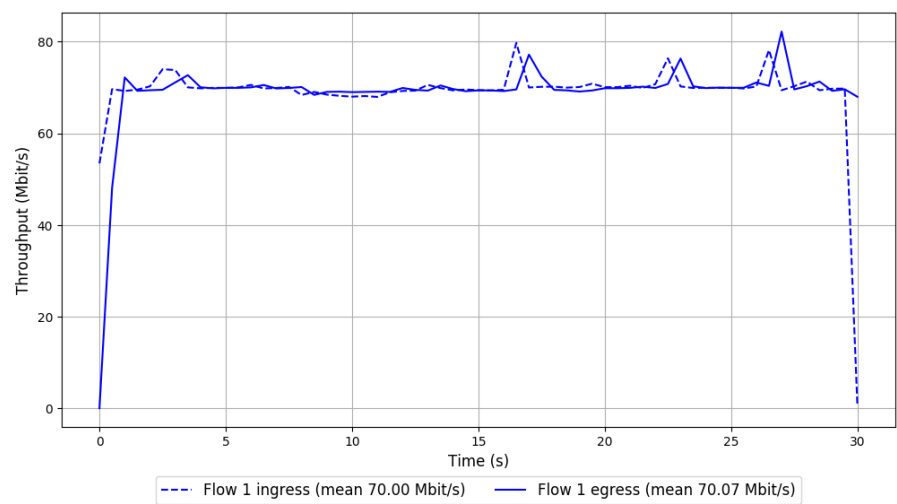
-- Flow 1:

Average throughput: 70.07 Mbit/s

95th percentile per-packet one-way delay: 39.924 ms

Loss rate: 0.11%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-06-05 20:16:24

End at: 2018-06-05 20:16:54

Local clock offset: 0.656 ms

Remote clock offset: -2.062 ms

Below is generated by plot.py at 2018-06-05 23:19:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.53 Mbit/s

95th percentile per-packet one-way delay: 41.866 ms

Loss rate: 0.20%

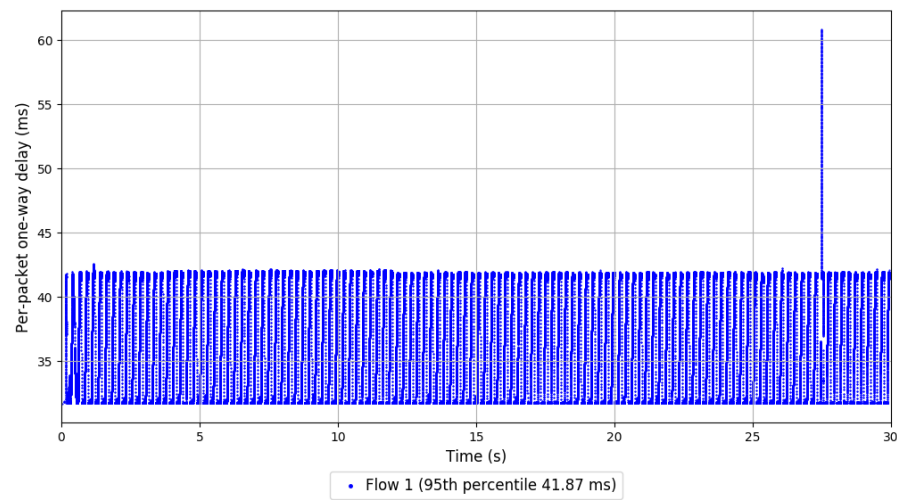
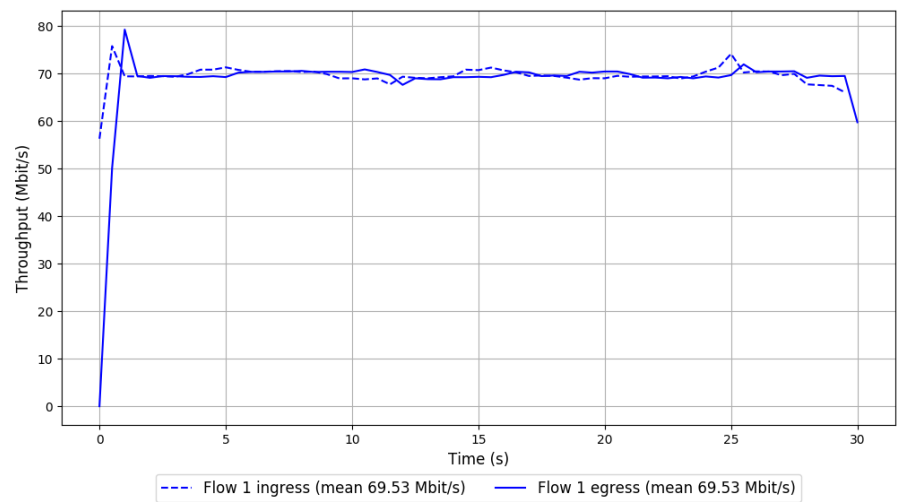
-- Flow 1:

Average throughput: 69.53 Mbit/s

95th percentile per-packet one-way delay: 41.866 ms

Loss rate: 0.20%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-06-05 20:37:25

End at: 2018-06-05 20:37:55

Local clock offset: 0.404 ms

Remote clock offset: 0.291 ms

Below is generated by plot.py at 2018-06-05 23:19:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.21 Mbit/s

95th percentile per-packet one-way delay: 40.504 ms

Loss rate: 0.14%

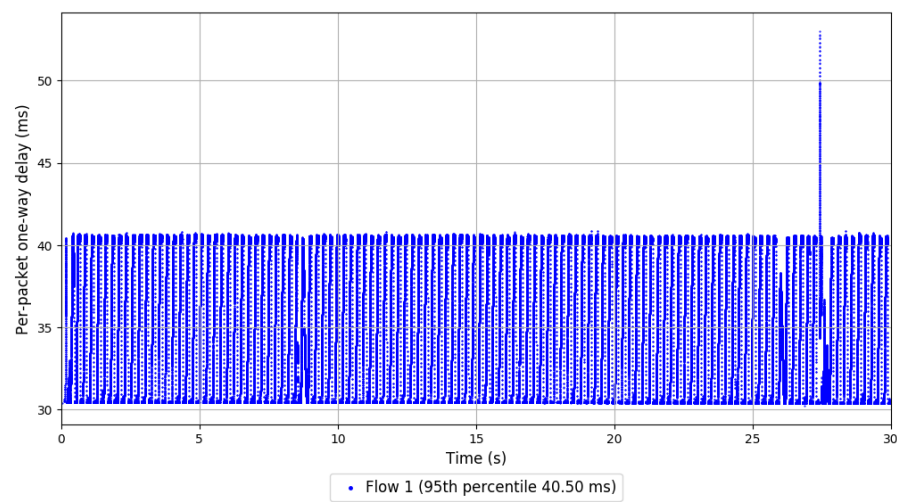
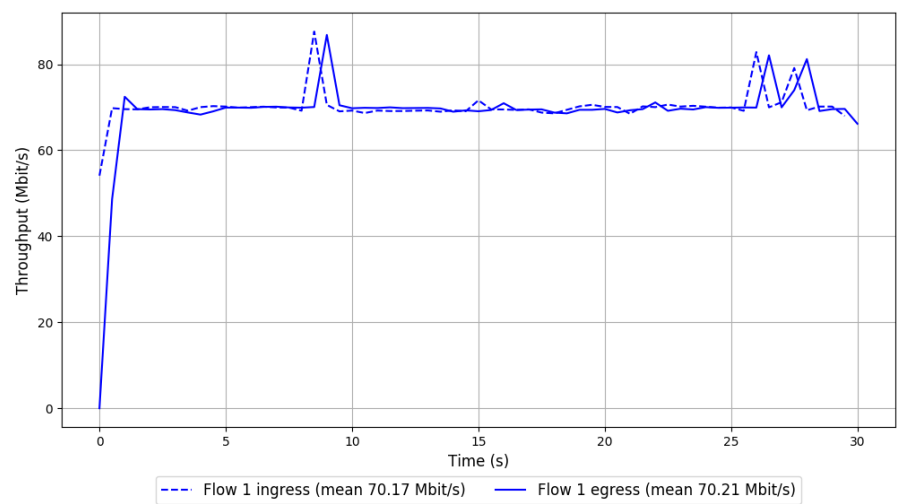
-- Flow 1:

Average throughput: 70.21 Mbit/s

95th percentile per-packet one-way delay: 40.504 ms

Loss rate: 0.14%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-05 20:58:24

End at: 2018-06-05 20:58:54

Local clock offset: 0.403 ms

Remote clock offset: -0.736 ms

Below is generated by plot.py at 2018-06-05 23:19:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.59 Mbit/s

95th percentile per-packet one-way delay: 36.504 ms

Loss rate: 0.26%

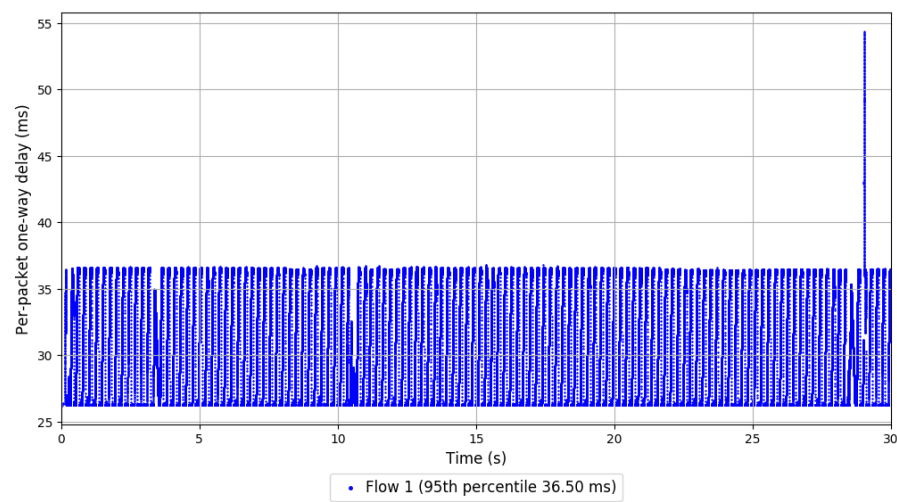
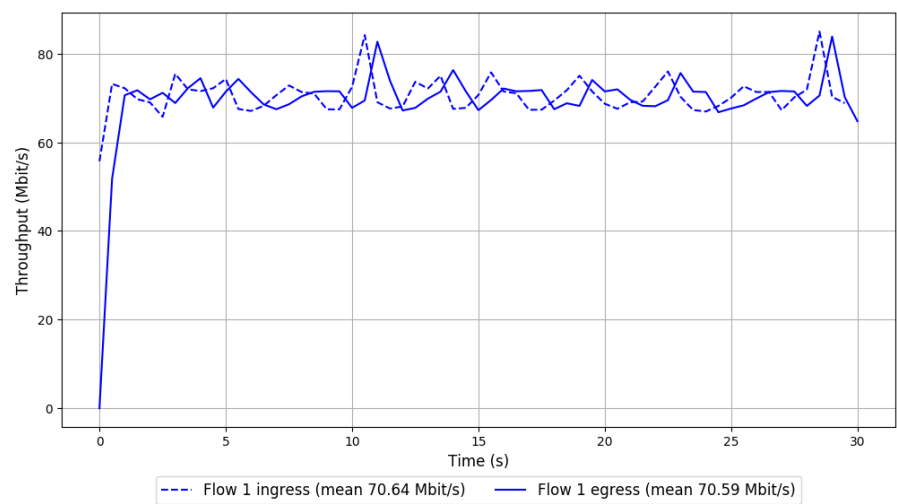
-- Flow 1:

Average throughput: 70.59 Mbit/s

95th percentile per-packet one-way delay: 36.504 ms

Loss rate: 0.26%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-05 21:19:19

End at: 2018-06-05 21:19:49

Local clock offset: 0.509 ms

Remote clock offset: -2.474 ms

Below is generated by plot.py at 2018-06-05 23:19:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.63 Mbit/s

95th percentile per-packet one-way delay: 42.685 ms

Loss rate: 0.22%

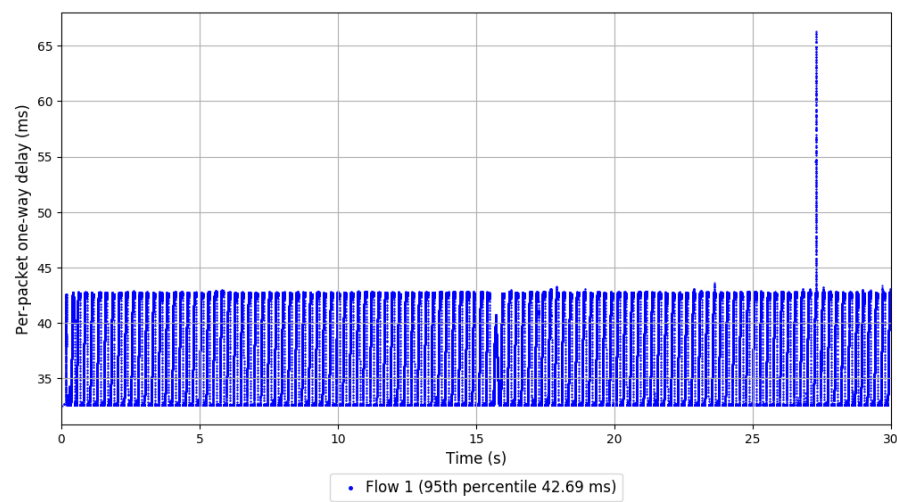
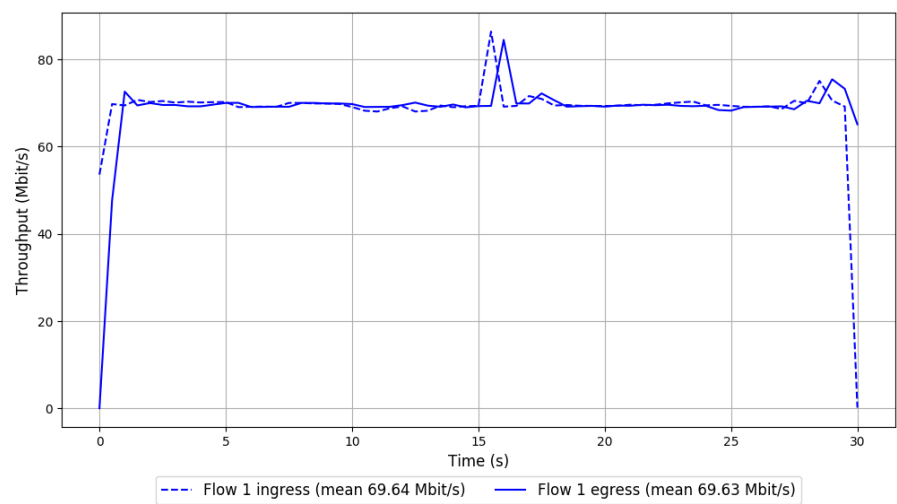
-- Flow 1:

Average throughput: 69.63 Mbit/s

95th percentile per-packet one-way delay: 42.685 ms

Loss rate: 0.22%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-06-05 21:40:28

End at: 2018-06-05 21:40:58

Local clock offset: 0.214 ms

Remote clock offset: 0.041 ms

Below is generated by plot.py at 2018-06-05 23:19:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.54 Mbit/s

95th percentile per-packet one-way delay: 35.652 ms

Loss rate: 0.27%

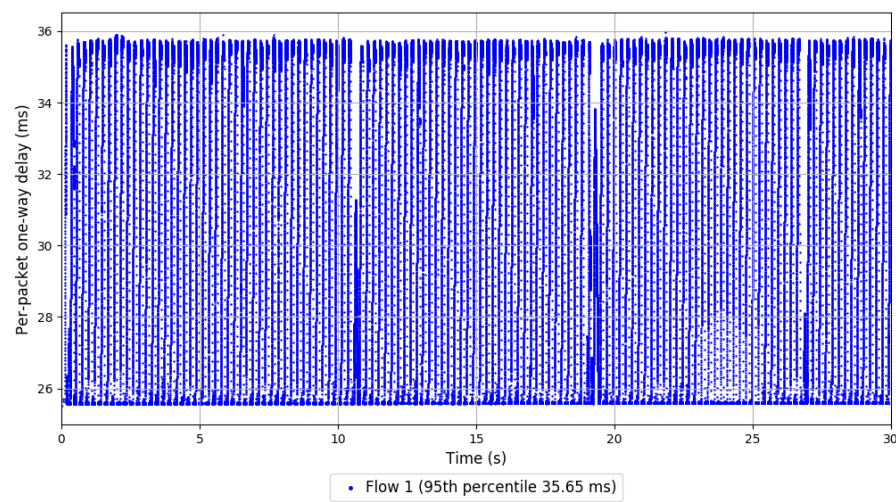
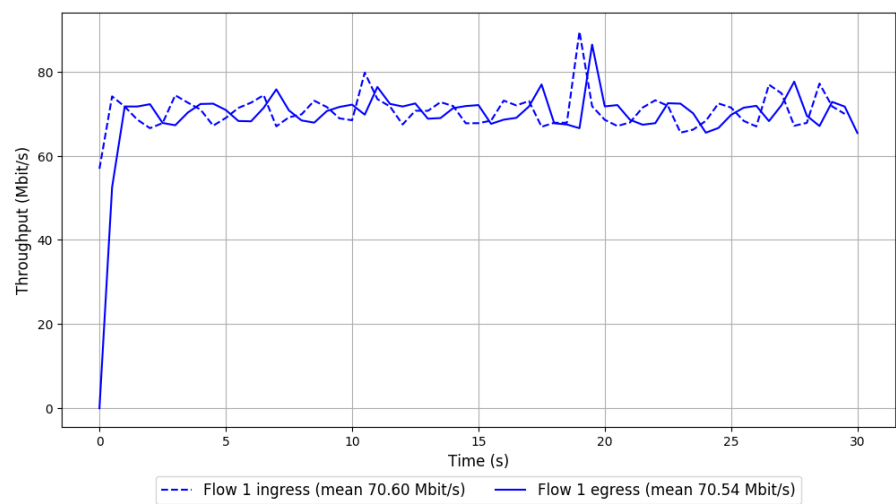
-- Flow 1:

Average throughput: 70.54 Mbit/s

95th percentile per-packet one-way delay: 35.652 ms

Loss rate: 0.27%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-05 22:01:22

End at: 2018-06-05 22:01:52

Local clock offset: 0.013 ms

Remote clock offset: -0.928 ms

Below is generated by plot.py at 2018-06-05 23:19:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.98 Mbit/s

95th percentile per-packet one-way delay: 40.659 ms

Loss rate: 0.11%

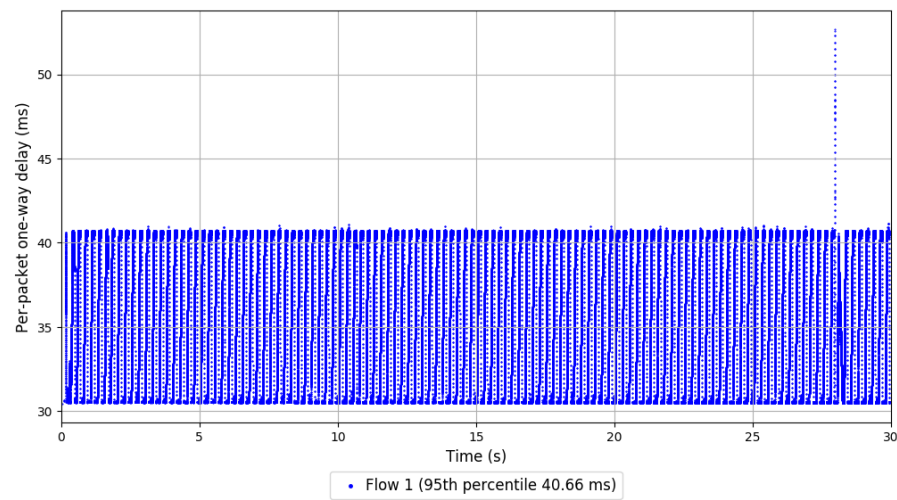
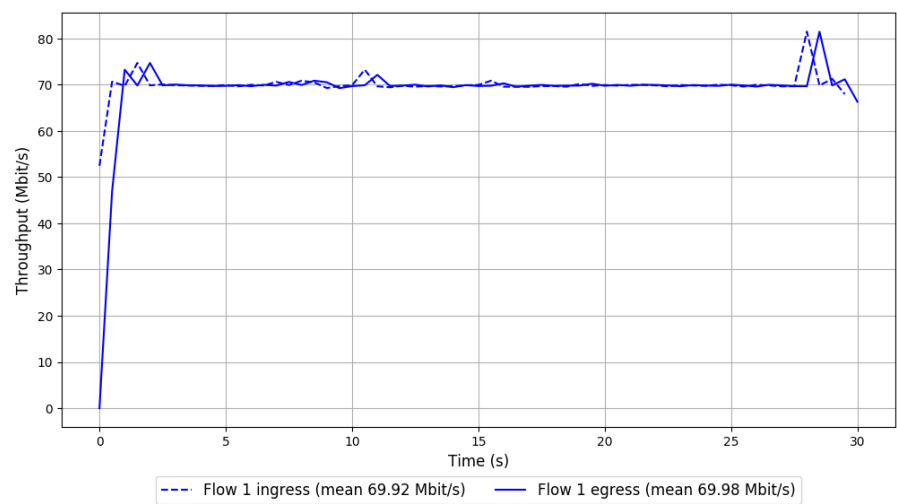
-- Flow 1:

Average throughput: 69.98 Mbit/s

95th percentile per-packet one-way delay: 40.659 ms

Loss rate: 0.11%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-06-05 22:22:20

End at: 2018-06-05 22:22:50

Local clock offset: 0.196 ms

Remote clock offset: -1.005 ms

Below is generated by plot.py at 2018-06-05 23:20:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.54 Mbit/s

95th percentile per-packet one-way delay: 40.024 ms

Loss rate: 0.25%

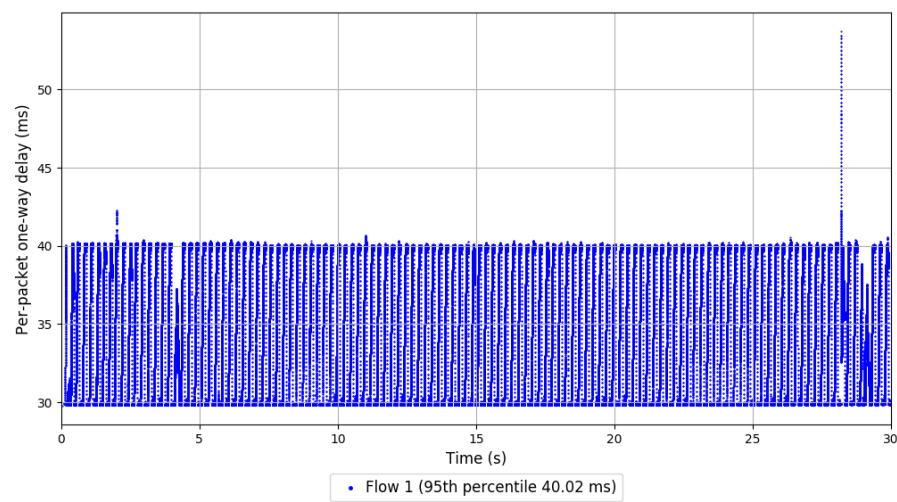
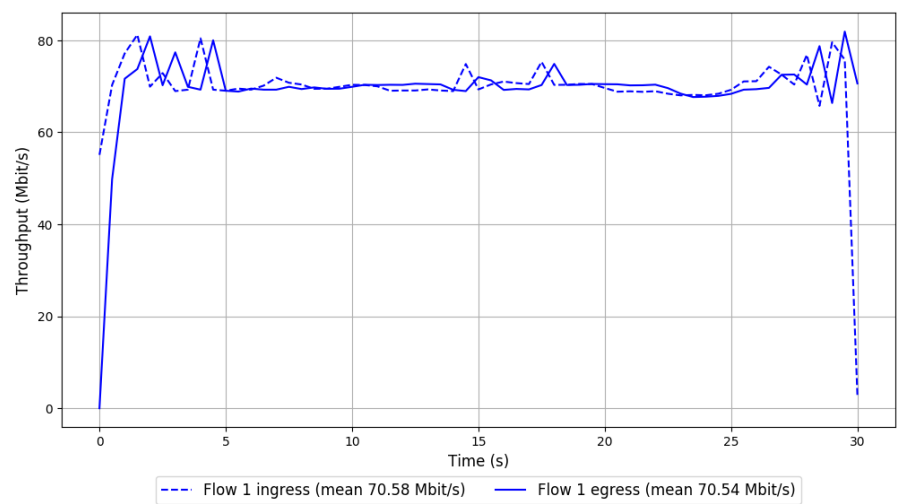
-- Flow 1:

Average throughput: 70.54 Mbit/s

95th percentile per-packet one-way delay: 40.024 ms

Loss rate: 0.25%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-06-05 22:43:15

End at: 2018-06-05 22:43:45

Local clock offset: 0.378 ms

Remote clock offset: -0.324 ms

Below is generated by plot.py at 2018-06-05 23:20:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.31 Mbit/s

95th percentile per-packet one-way delay: 40.607 ms

Loss rate: 0.10%

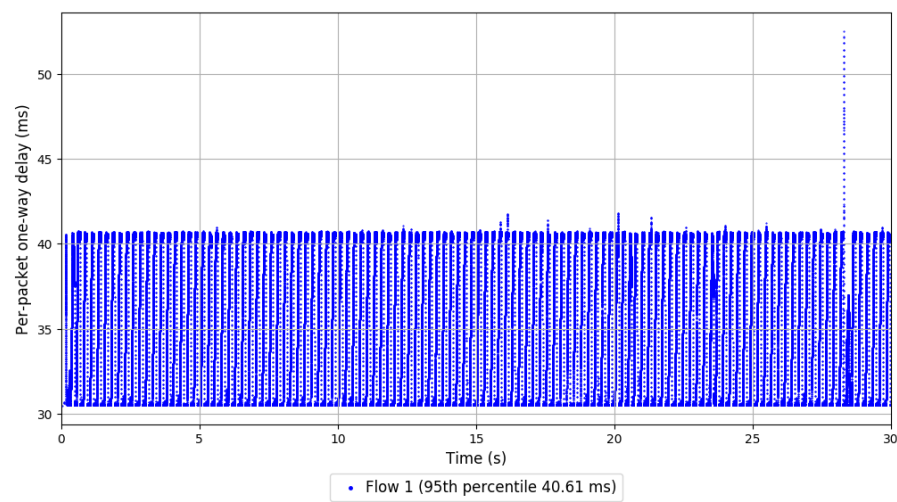
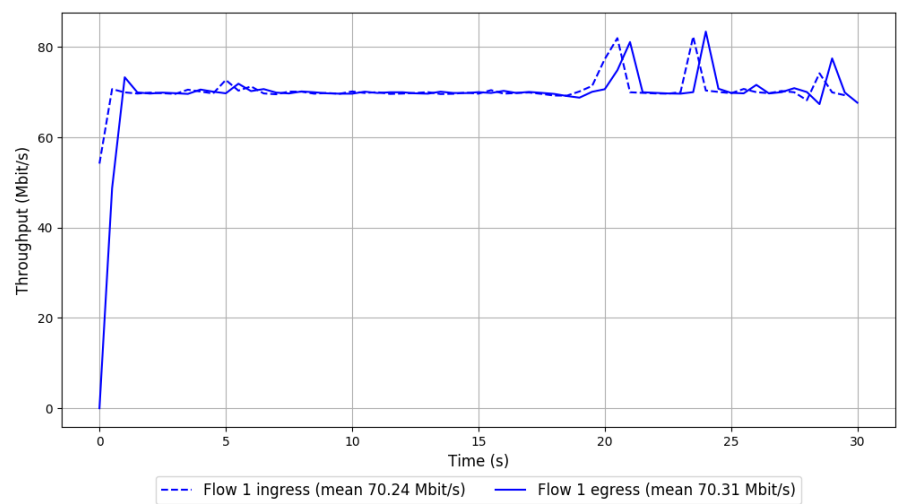
-- Flow 1:

Average throughput: 70.31 Mbit/s

95th percentile per-packet one-way delay: 40.607 ms

Loss rate: 0.10%

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

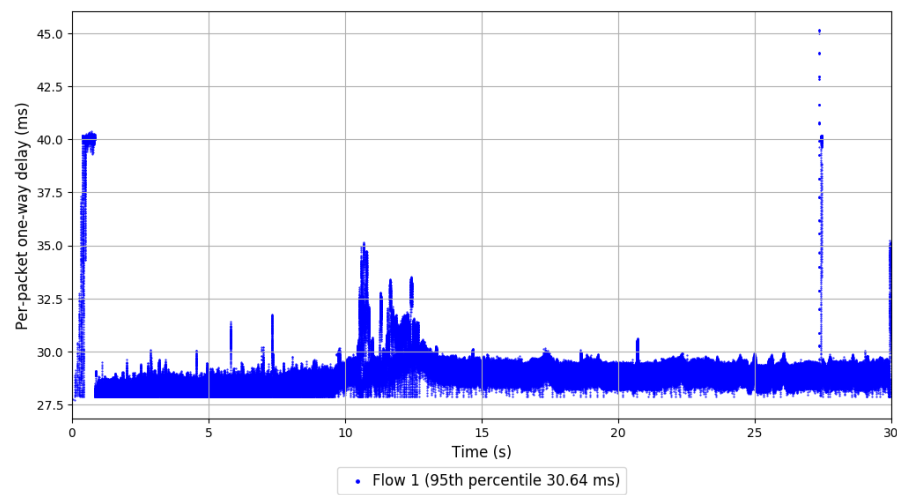
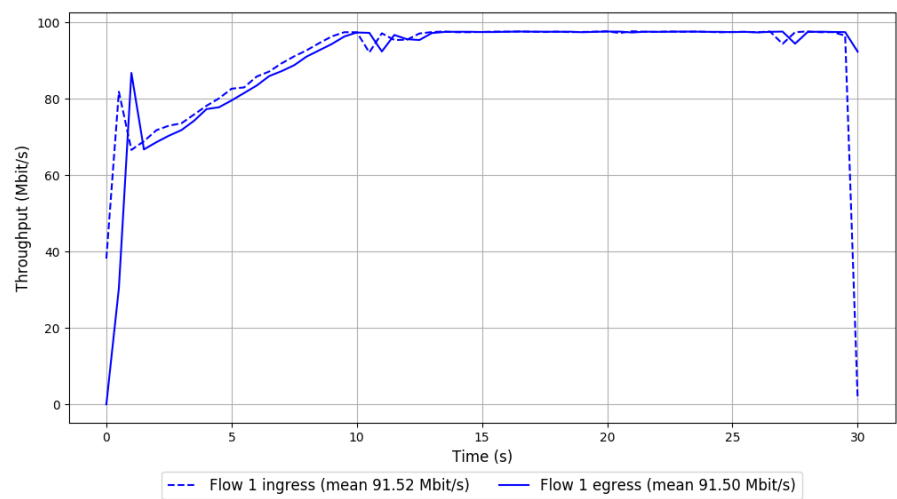


Run 1: Statistics of TCP Vegas

Start at: 2018-06-05 19:43:48
End at: 2018-06-05 19:44:18
Local clock offset: 1.332 ms
Remote clock offset: -2.236 ms

Below is generated by plot.py at 2018-06-05 23:20:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.50 Mbit/s
95th percentile per-packet one-way delay: 30.644 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 91.50 Mbit/s
95th percentile per-packet one-way delay: 30.644 ms
Loss rate: 0.20%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-06-05 20:04:43

End at: 2018-06-05 20:05:13

Local clock offset: 1.52 ms

Remote clock offset: 0.958 ms

Below is generated by plot.py at 2018-06-05 23:20:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.56 Mbit/s

95th percentile per-packet one-way delay: 27.449 ms

Loss rate: 0.21%

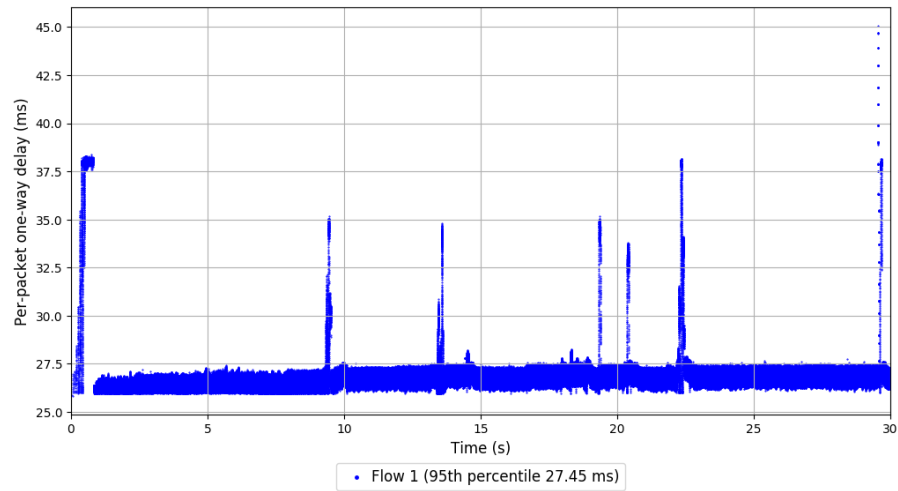
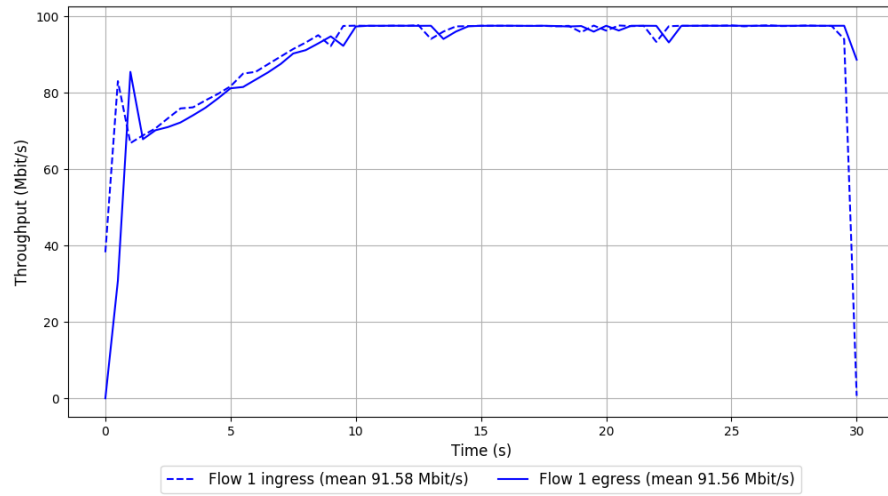
-- Flow 1:

Average throughput: 91.56 Mbit/s

95th percentile per-packet one-way delay: 27.449 ms

Loss rate: 0.21%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-06-05 20:25:43

End at: 2018-06-05 20:26:13

Local clock offset: 0.458 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2018-06-05 23:20:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.51 Mbit/s

95th percentile per-packet one-way delay: 32.169 ms

Loss rate: 0.23%

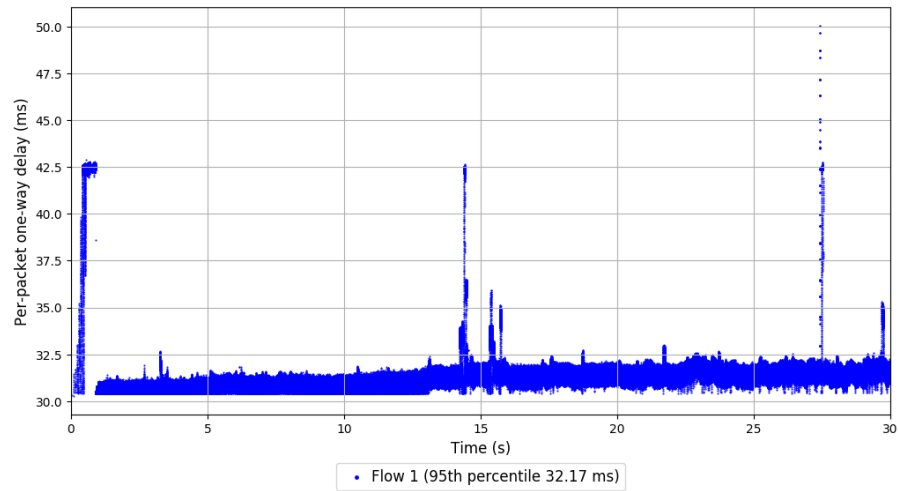
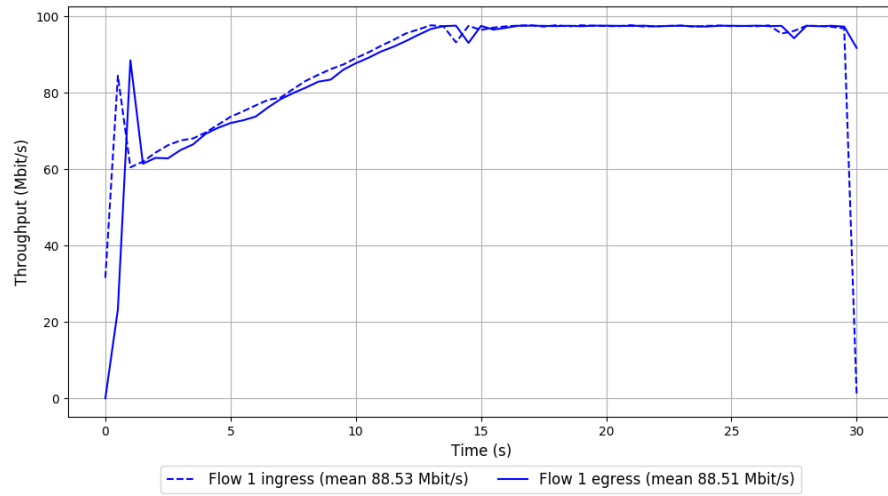
-- Flow 1:

Average throughput: 88.51 Mbit/s

95th percentile per-packet one-way delay: 32.169 ms

Loss rate: 0.23%

Run 3: Report of TCP Vegas — Data Link

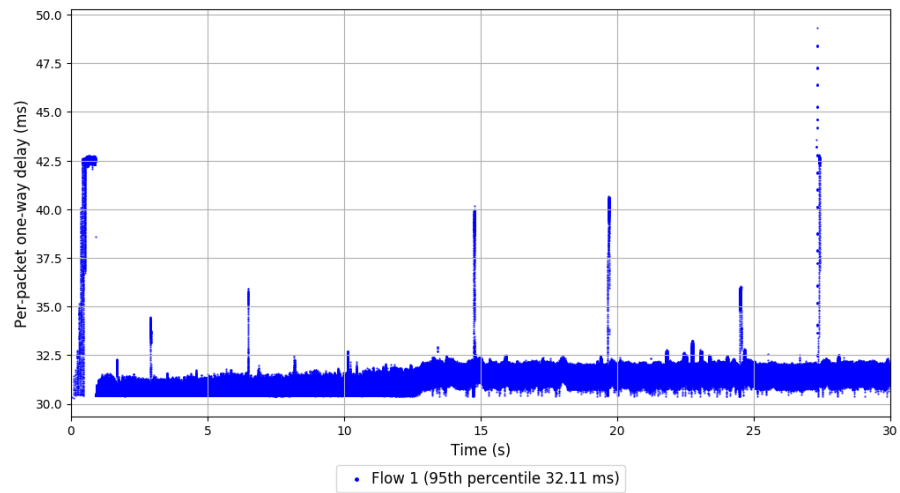
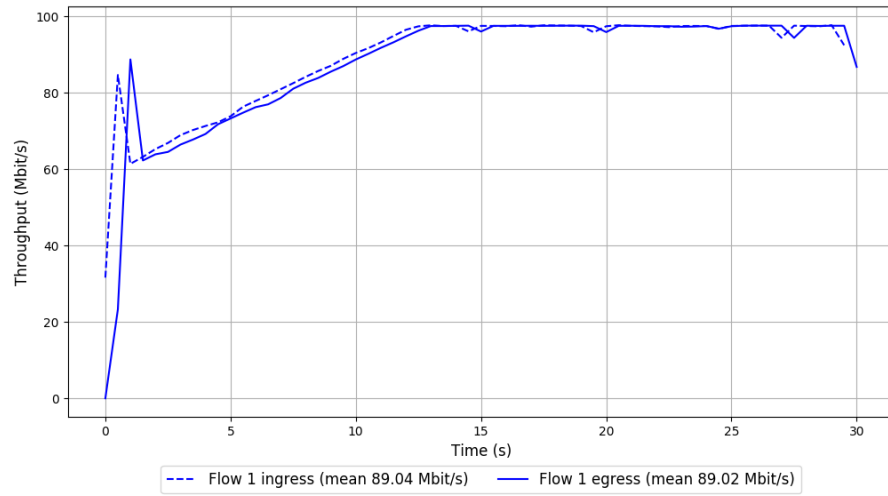


Run 4: Statistics of TCP Vegas

Start at: 2018-06-05 20:46:44
End at: 2018-06-05 20:47:14
Local clock offset: 0.421 ms
Remote clock offset: -0.422 ms

Below is generated by plot.py at 2018-06-05 23:20:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.02 Mbit/s
95th percentile per-packet one-way delay: 32.112 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 89.02 Mbit/s
95th percentile per-packet one-way delay: 32.112 ms
Loss rate: 0.23%

Run 4: Report of TCP Vegas — Data Link

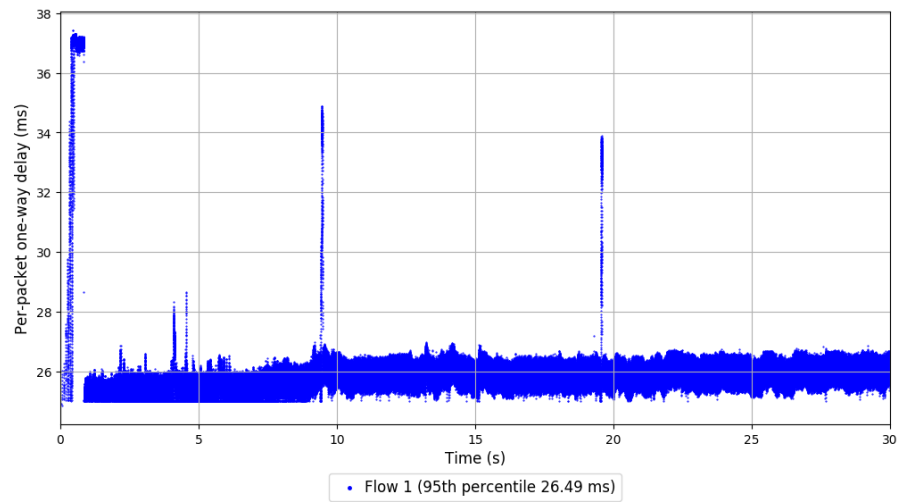
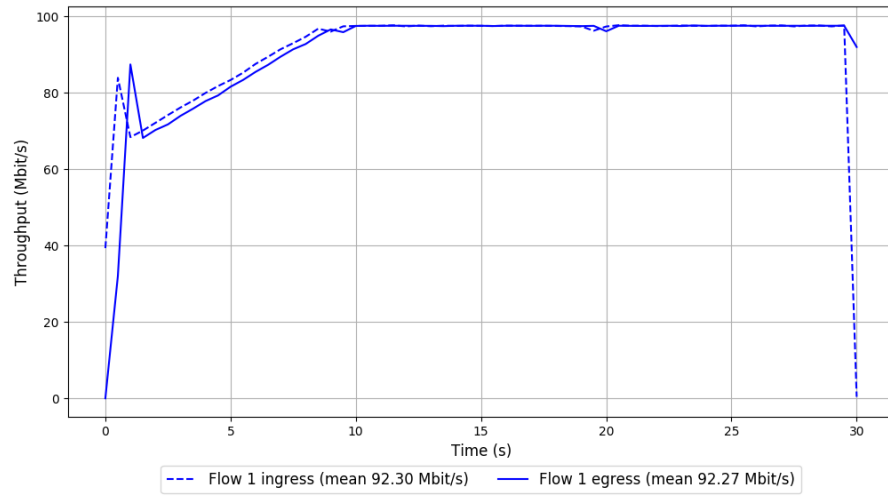


Run 5: Statistics of TCP Vegas

Start at: 2018-06-05 21:07:41
End at: 2018-06-05 21:08:11
Local clock offset: 0.411 ms
Remote clock offset: -0.278 ms

Below is generated by plot.py at 2018-06-05 23:20:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.27 Mbit/s
95th percentile per-packet one-way delay: 26.490 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 92.27 Mbit/s
95th percentile per-packet one-way delay: 26.490 ms
Loss rate: 0.21%

Run 5: Report of TCP Vegas — Data Link

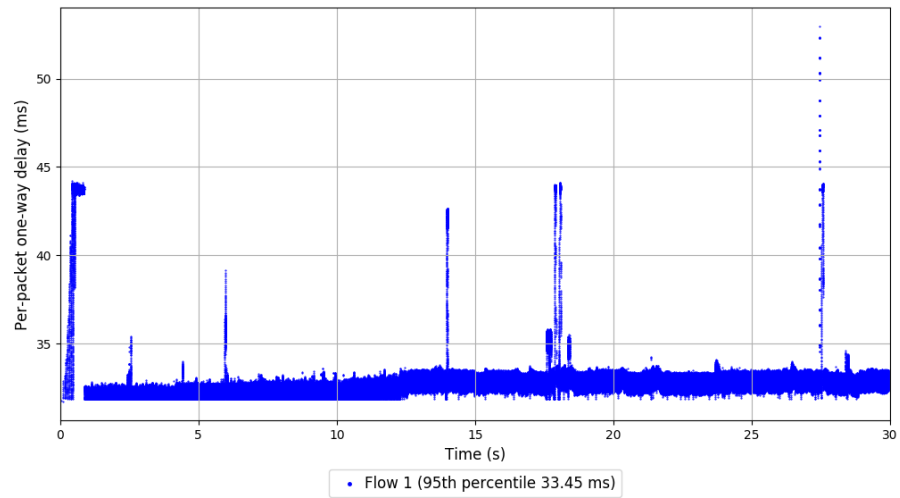
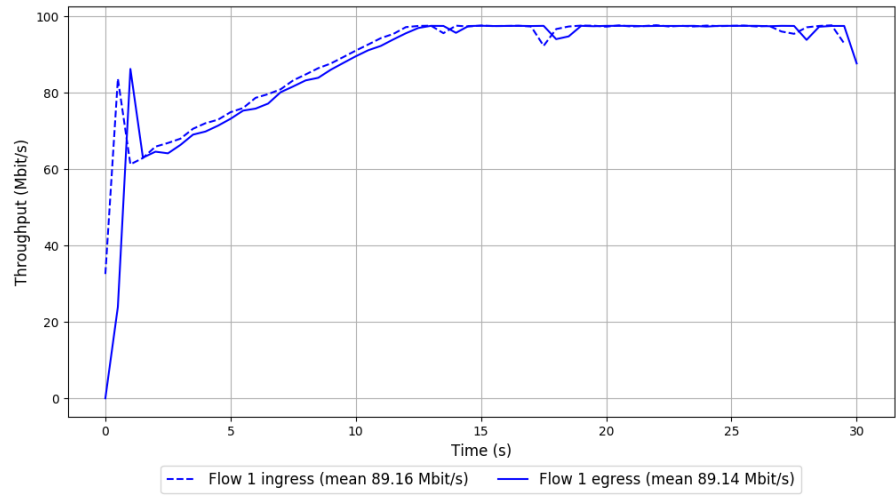


Run 6: Statistics of TCP Vegas

Start at: 2018-06-05 21:28:42
End at: 2018-06-05 21:29:12
Local clock offset: 0.513 ms
Remote clock offset: -2.141 ms

Below is generated by plot.py at 2018-06-05 23:20:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.14 Mbit/s
95th percentile per-packet one-way delay: 33.451 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 89.14 Mbit/s
95th percentile per-packet one-way delay: 33.451 ms
Loss rate: 0.22%

Run 6: Report of TCP Vegas — Data Link

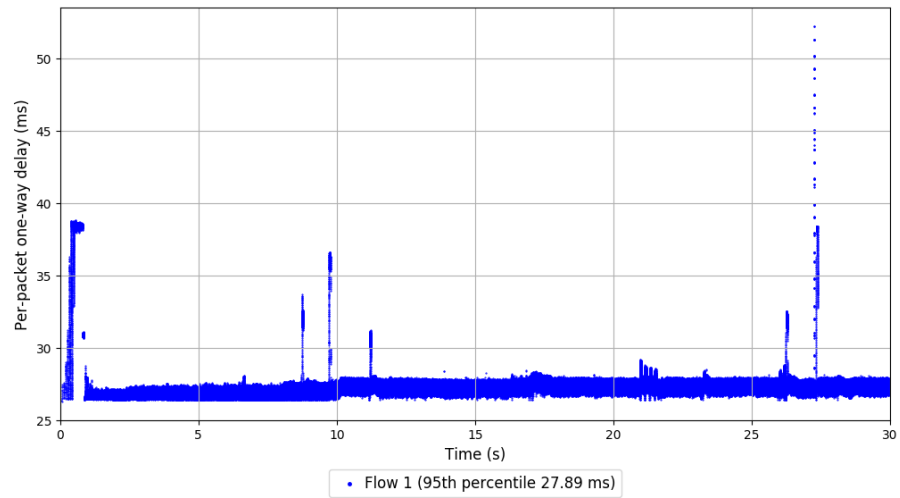
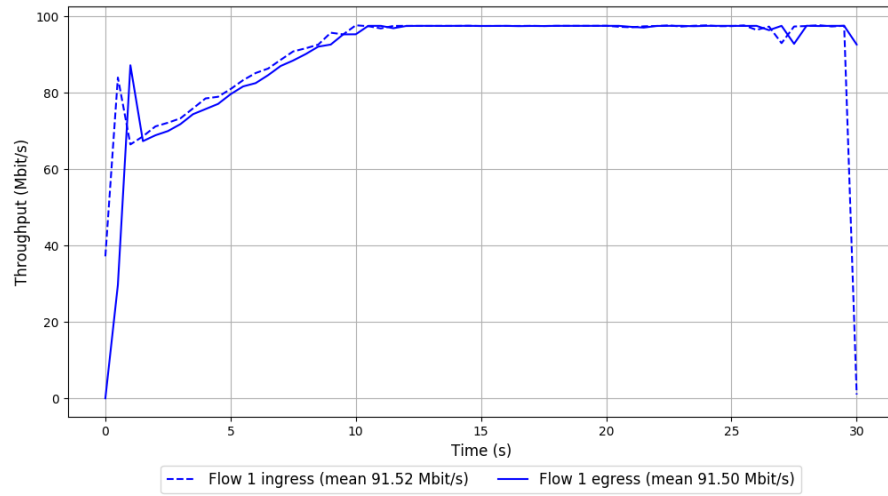


Run 7: Statistics of TCP Vegas

Start at: 2018-06-05 21:49:44
End at: 2018-06-05 21:50:14
Local clock offset: 0.144 ms
Remote clock offset: -0.282 ms

Below is generated by plot.py at 2018-06-05 23:21:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.50 Mbit/s
95th percentile per-packet one-way delay: 27.893 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 91.50 Mbit/s
95th percentile per-packet one-way delay: 27.893 ms
Loss rate: 0.20%

Run 7: Report of TCP Vegas — Data Link

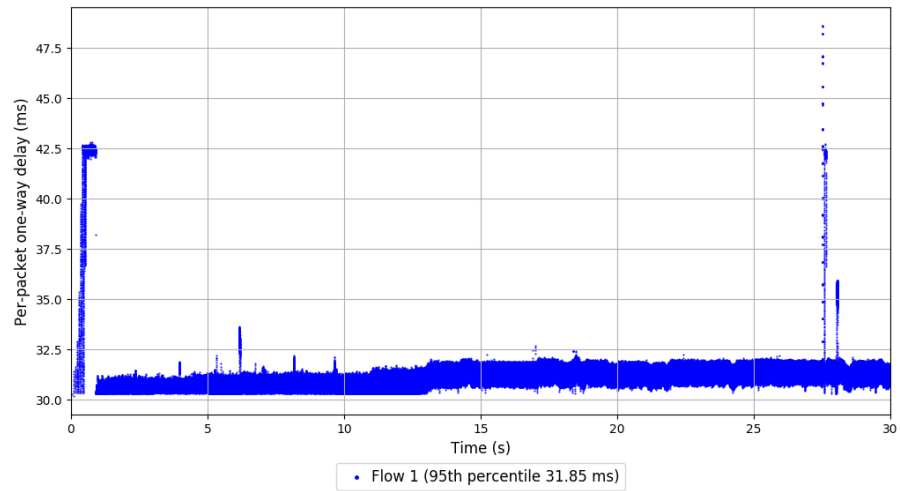
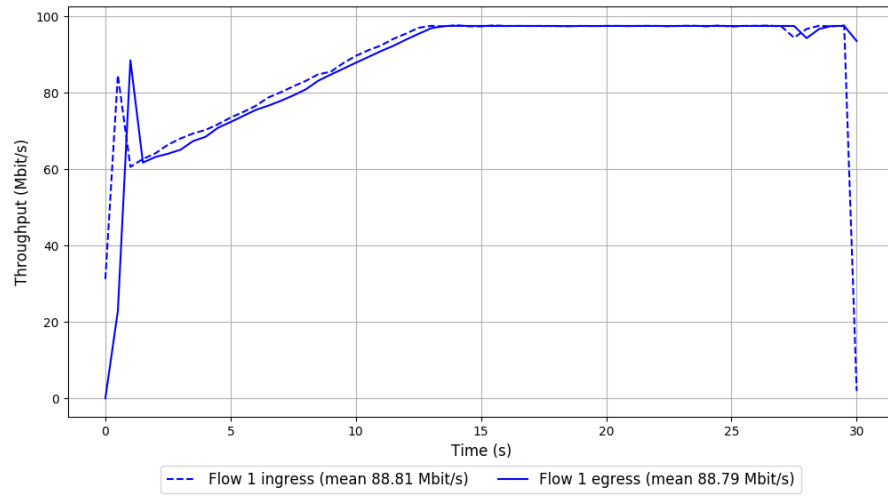


Run 8: Statistics of TCP Vegas

Start at: 2018-06-05 22:10:39
End at: 2018-06-05 22:11:09
Local clock offset: 0.149 ms
Remote clock offset: -0.646 ms

Below is generated by plot.py at 2018-06-05 23:21:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.79 Mbit/s
95th percentile per-packet one-way delay: 31.850 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 88.79 Mbit/s
95th percentile per-packet one-way delay: 31.850 ms
Loss rate: 0.23%

Run 8: Report of TCP Vegas — Data Link

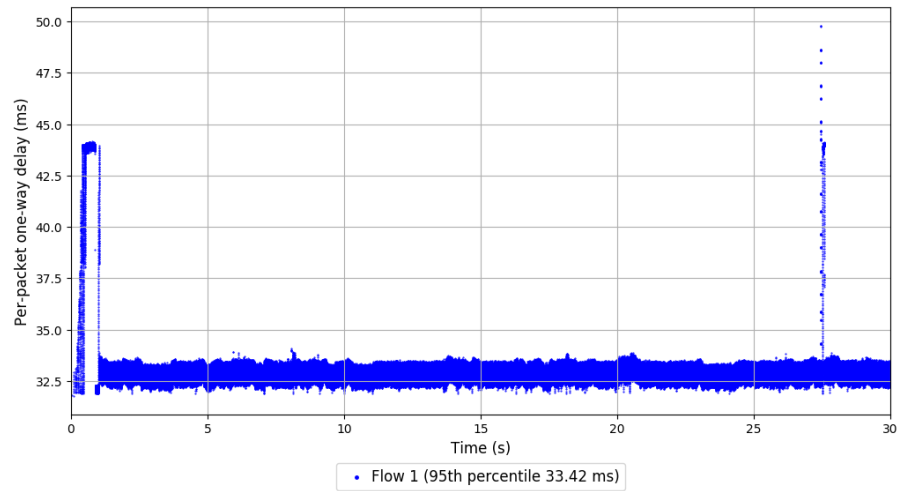
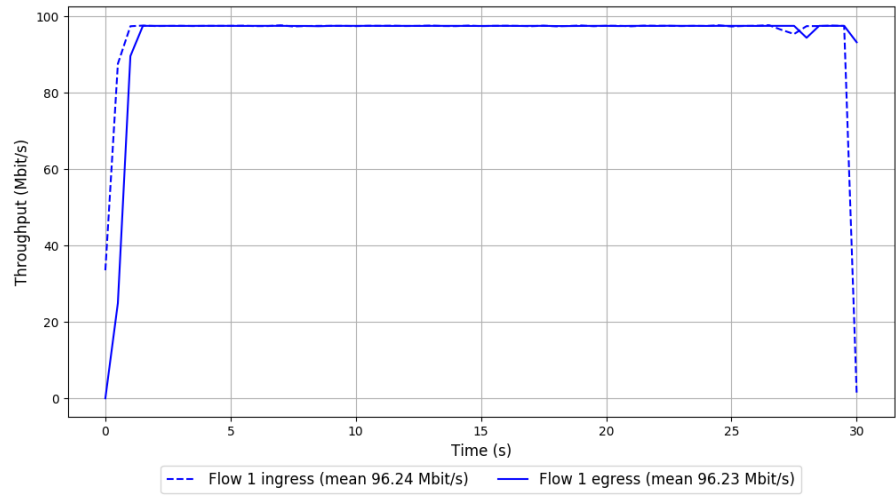


Run 9: Statistics of TCP Vegas

Start at: 2018-06-05 22:31:37
End at: 2018-06-05 22:32:07
Local clock offset: 0.194 ms
Remote clock offset: -2.636 ms

Below is generated by plot.py at 2018-06-05 23:21:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.23 Mbit/s
95th percentile per-packet one-way delay: 33.417 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 96.23 Mbit/s
95th percentile per-packet one-way delay: 33.417 ms
Loss rate: 0.21%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-06-05 22:52:30

End at: 2018-06-05 22:53:00

Local clock offset: 0.454 ms

Remote clock offset: -0.152 ms

Below is generated by plot.py at 2018-06-05 23:21:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.91 Mbit/s

95th percentile per-packet one-way delay: 27.258 ms

Loss rate: 0.21%

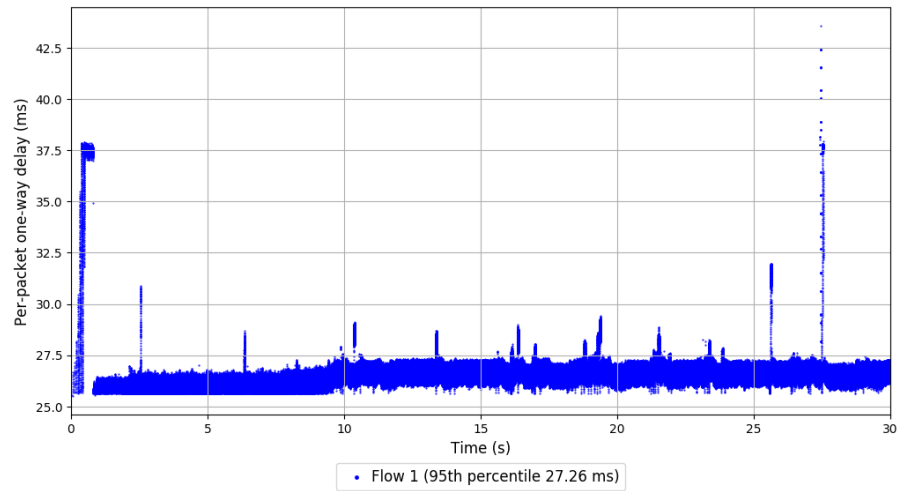
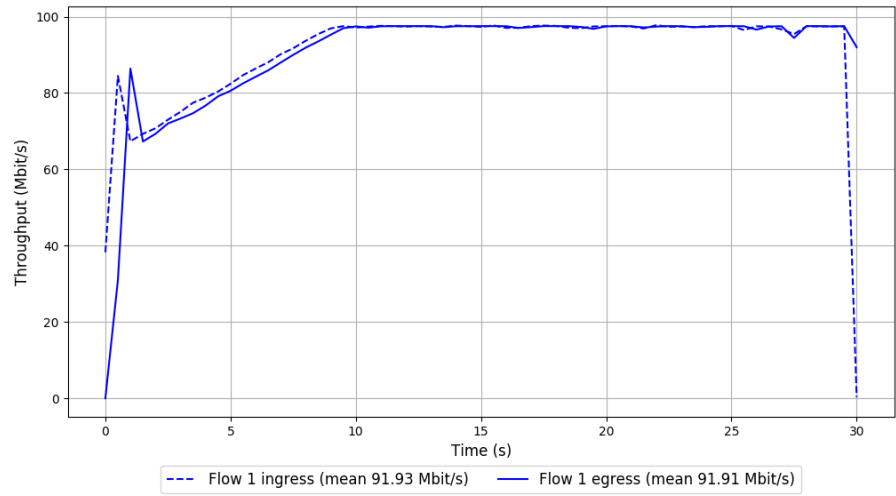
-- Flow 1:

Average throughput: 91.91 Mbit/s

95th percentile per-packet one-way delay: 27.258 ms

Loss rate: 0.21%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-06-05 19:39:49

End at: 2018-06-05 19:40:19

Local clock offset: 1.281 ms

Remote clock offset: 0.218 ms

Below is generated by plot.py at 2018-06-05 23:21:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.18 Mbit/s

95th percentile per-packet one-way delay: 43.063 ms

Loss rate: 0.45%

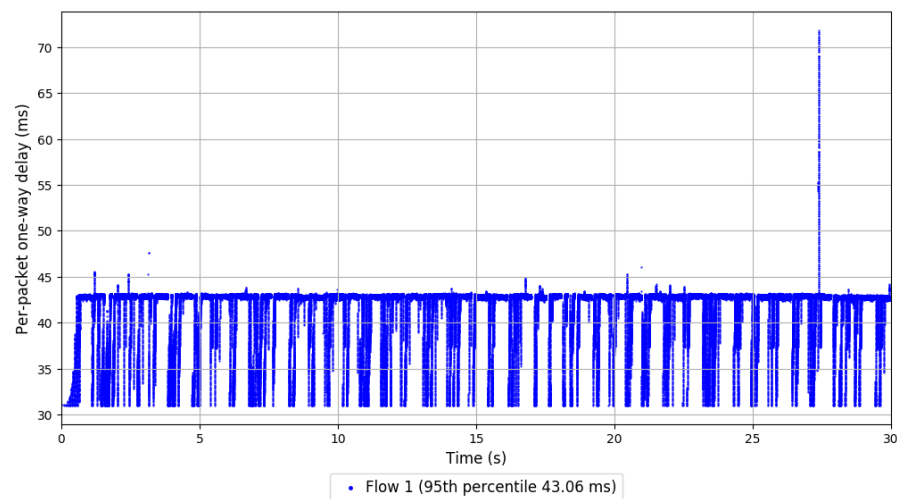
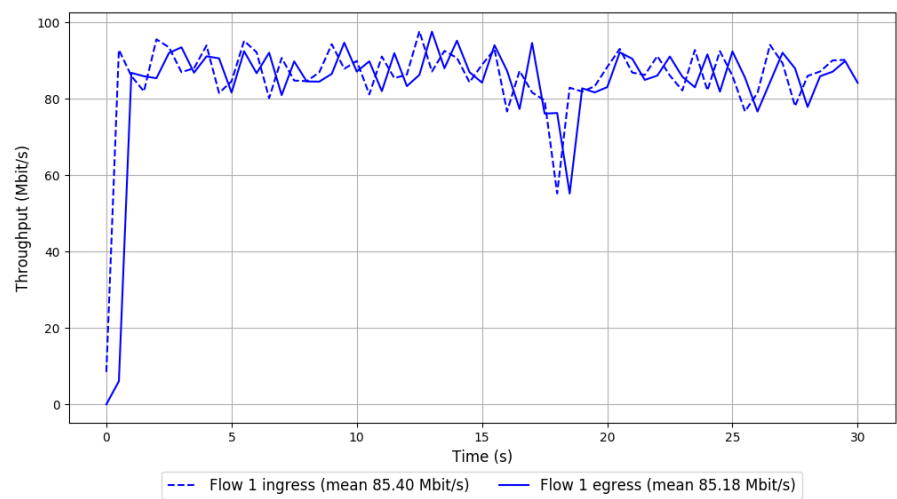
-- Flow 1:

Average throughput: 85.18 Mbit/s

95th percentile per-packet one-way delay: 43.063 ms

Loss rate: 0.45%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-06-05 20:00:45

End at: 2018-06-05 20:01:15

Local clock offset: 1.548 ms

Remote clock offset: 0.417 ms

Below is generated by plot.py at 2018-06-05 23:21:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.40 Mbit/s

95th percentile per-packet one-way delay: 42.559 ms

Loss rate: 0.36%

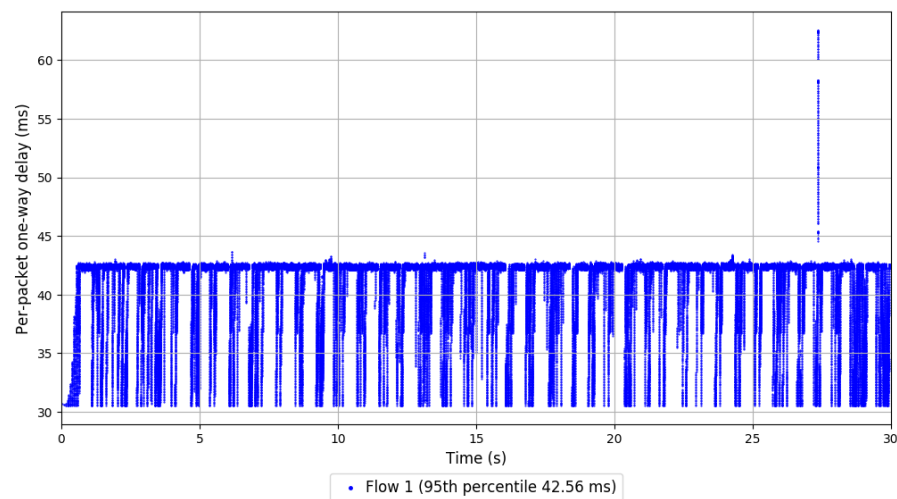
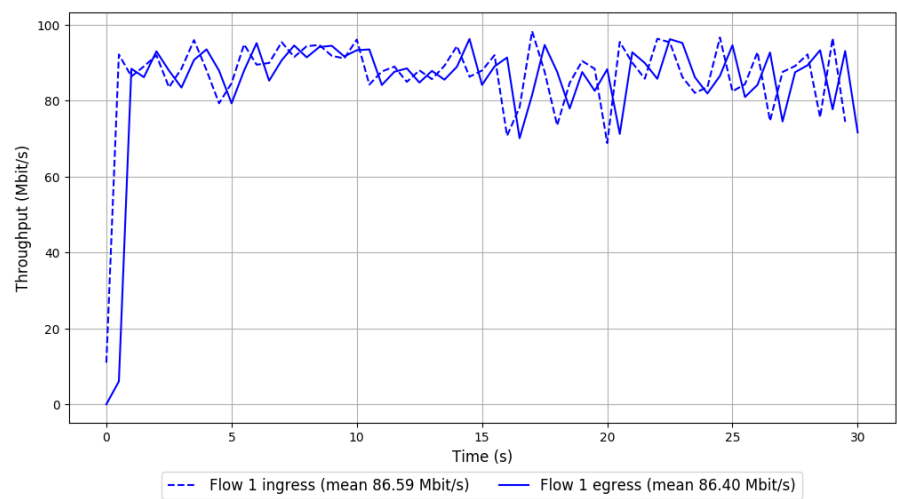
-- Flow 1:

Average throughput: 86.40 Mbit/s

95th percentile per-packet one-way delay: 42.559 ms

Loss rate: 0.36%

Run 2: Report of Verus — Data Link

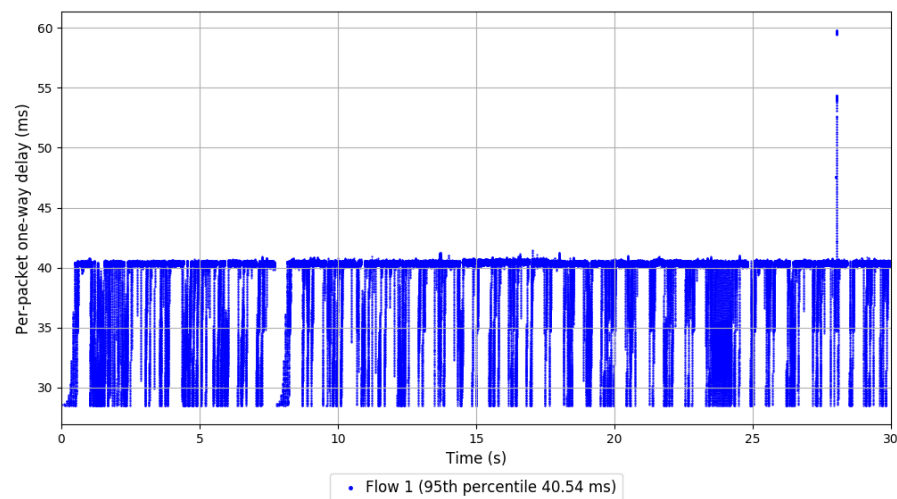
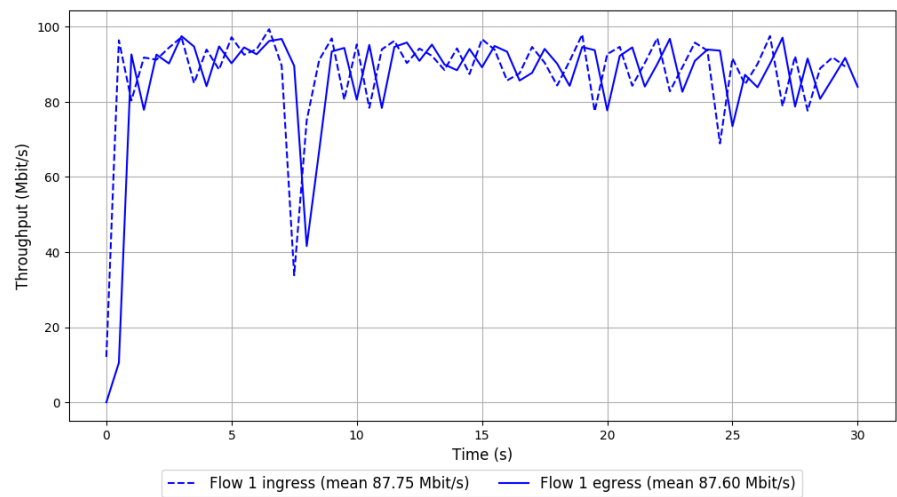


Run 3: Statistics of Verus

Start at: 2018-06-05 20:21:44
End at: 2018-06-05 20:22:14
Local clock offset: 0.615 ms
Remote clock offset: -2.043 ms

Below is generated by plot.py at 2018-06-05 23:21:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.60 Mbit/s
95th percentile per-packet one-way delay: 40.539 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 87.60 Mbit/s
95th percentile per-packet one-way delay: 40.539 ms
Loss rate: 0.38%

Run 3: Report of Verus — Data Link

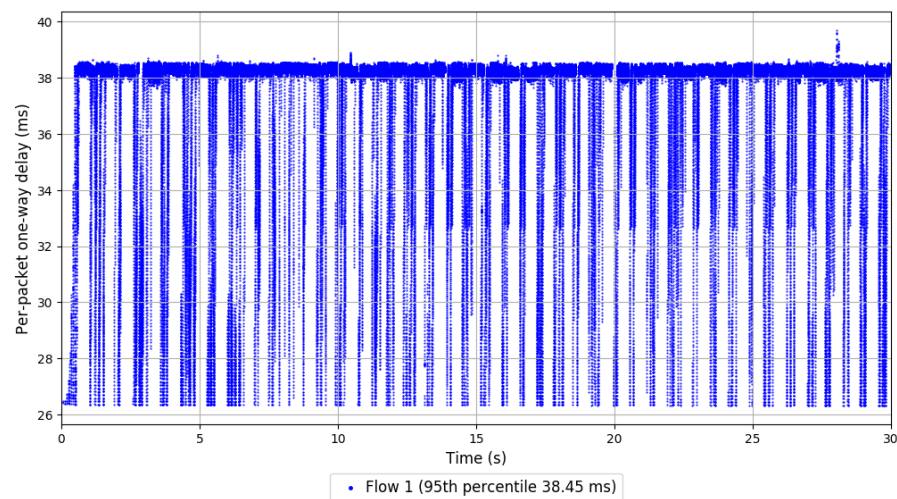
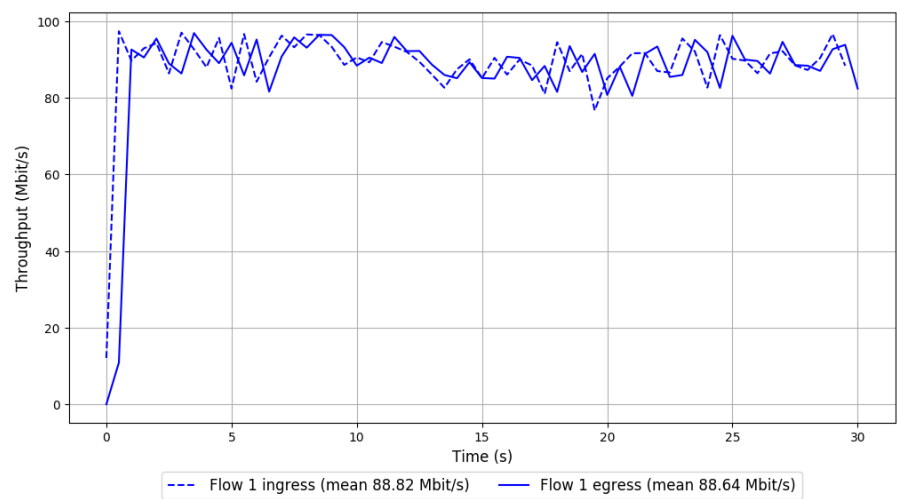


Run 4: Statistics of Verus

Start at: 2018-06-05 20:42:45
End at: 2018-06-05 20:43:15
Local clock offset: 0.505 ms
Remote clock offset: -0.154 ms

Below is generated by plot.py at 2018-06-05 23:21:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.64 Mbit/s
95th percentile per-packet one-way delay: 38.447 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 88.64 Mbit/s
95th percentile per-packet one-way delay: 38.447 ms
Loss rate: 0.42%

Run 4: Report of Verus — Data Link

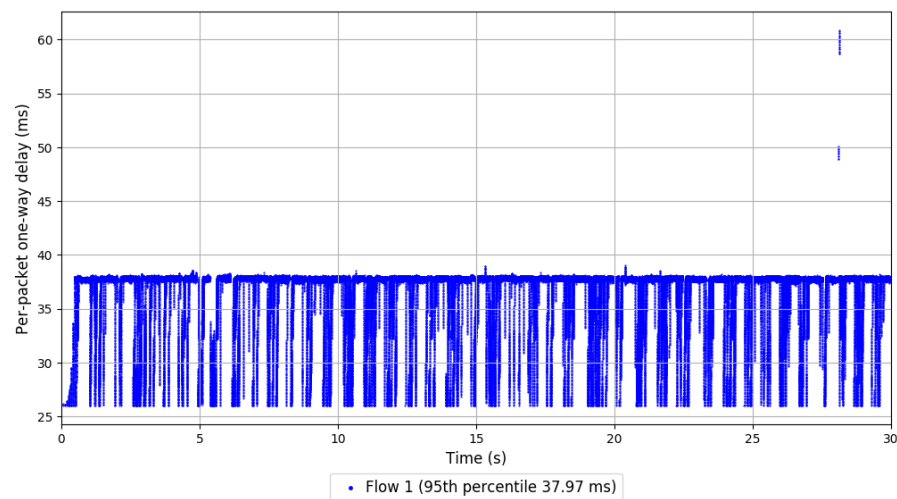
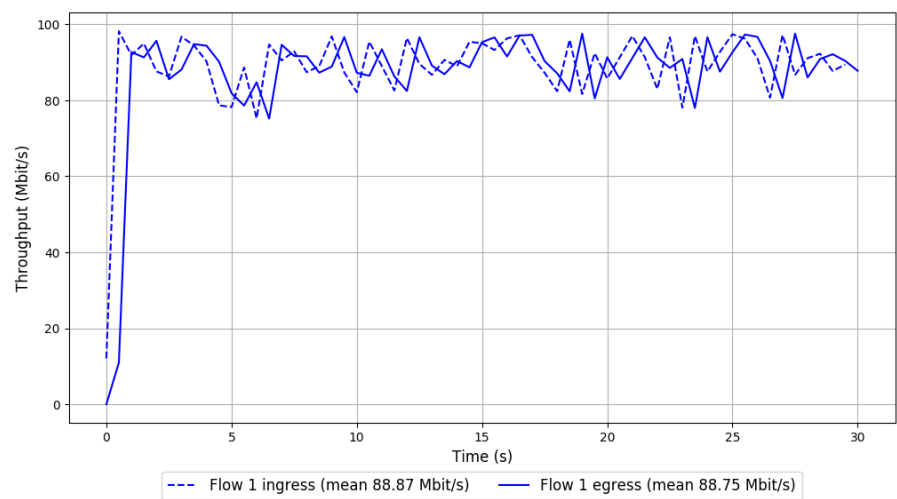


Run 5: Statistics of Verus

Start at: 2018-06-05 21:03:42
End at: 2018-06-05 21:04:12
Local clock offset: 0.457 ms
Remote clock offset: -0.329 ms

Below is generated by plot.py at 2018-06-05 23:22:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.75 Mbit/s
95th percentile per-packet one-way delay: 37.973 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 88.75 Mbit/s
95th percentile per-packet one-way delay: 37.973 ms
Loss rate: 0.26%

Run 5: Report of Verus — Data Link

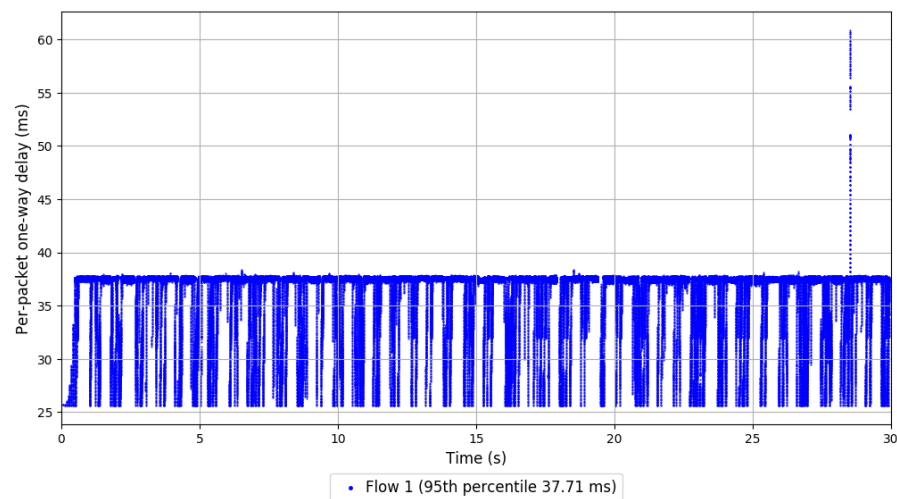
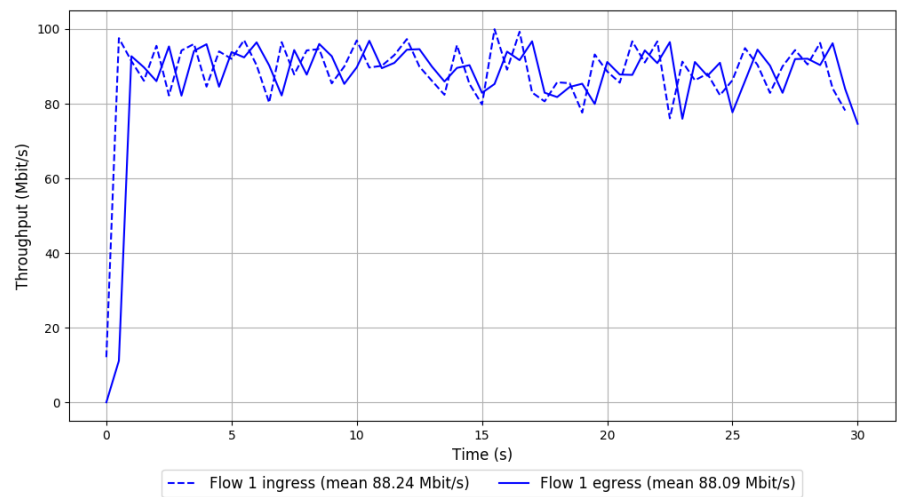


Run 6: Statistics of Verus

Start at: 2018-06-05 21:24:44
End at: 2018-06-05 21:25:14
Local clock offset: 0.43 ms
Remote clock offset: -0.179 ms

Below is generated by plot.py at 2018-06-05 23:22:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.09 Mbit/s
95th percentile per-packet one-way delay: 37.710 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 88.09 Mbit/s
95th percentile per-packet one-way delay: 37.710 ms
Loss rate: 0.35%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-06-05 21:45:45

End at: 2018-06-05 21:46:15

Local clock offset: 0.207 ms

Remote clock offset: 0.15 ms

Below is generated by plot.py at 2018-06-05 23:22:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.17 Mbit/s

95th percentile per-packet one-way delay: 43.429 ms

Loss rate: 0.48%

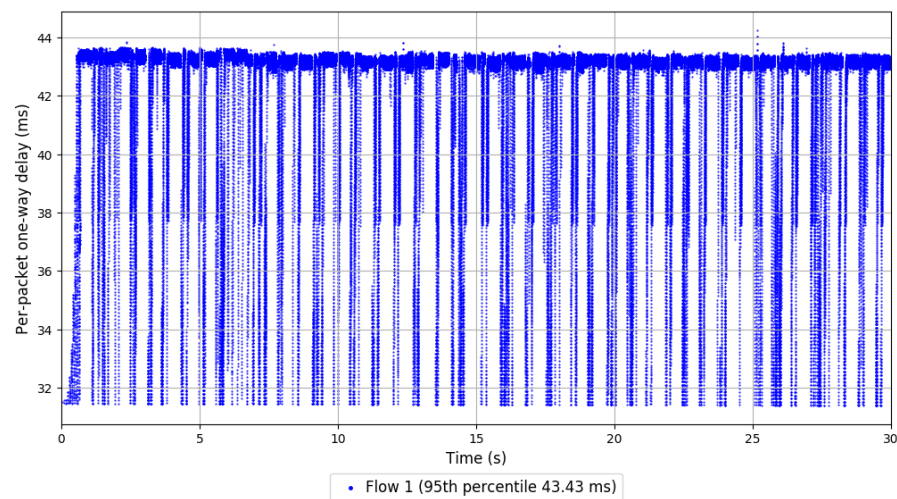
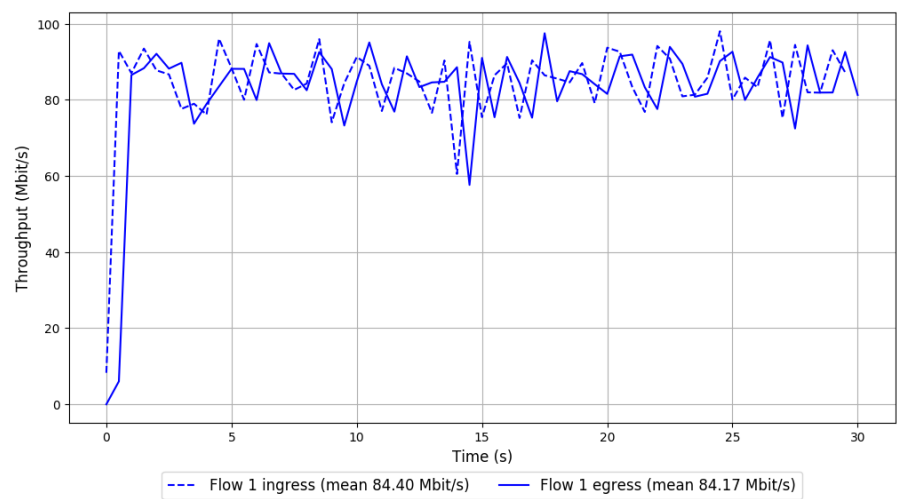
-- Flow 1:

Average throughput: 84.17 Mbit/s

95th percentile per-packet one-way delay: 43.429 ms

Loss rate: 0.48%

Run 7: Report of Verus — Data Link

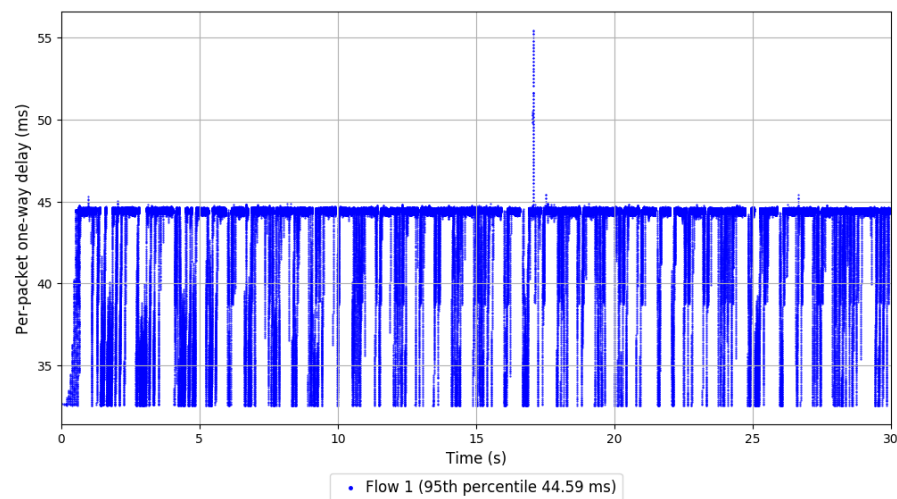
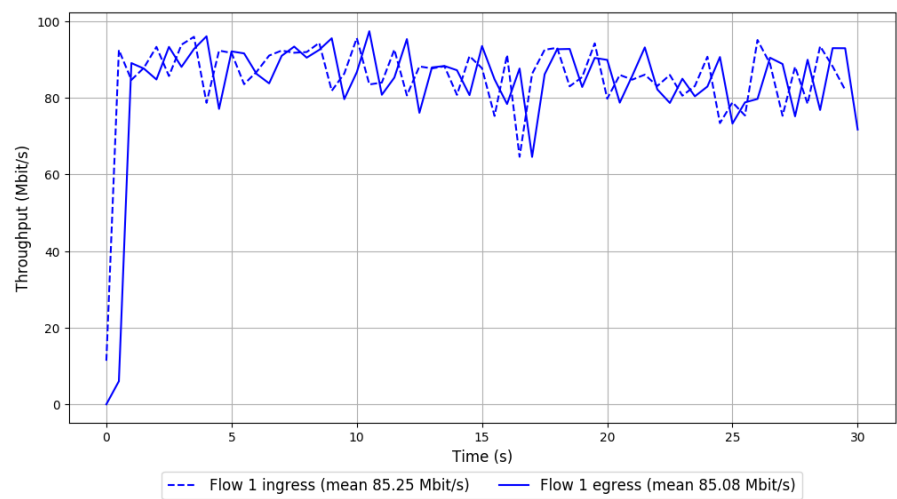


Run 8: Statistics of Verus

Start at: 2018-06-05 22:06:40
End at: 2018-06-05 22:07:10
Local clock offset: 0.073 ms
Remote clock offset: -3.098 ms

Below is generated by plot.py at 2018-06-05 23:22:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.08 Mbit/s
95th percentile per-packet one-way delay: 44.595 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 85.08 Mbit/s
95th percentile per-packet one-way delay: 44.595 ms
Loss rate: 0.42%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-06-05 22:27:38

End at: 2018-06-05 22:28:08

Local clock offset: 0.114 ms

Remote clock offset: -0.71 ms

Below is generated by plot.py at 2018-06-05 23:22:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.45 Mbit/s

95th percentile per-packet one-way delay: 42.697 ms

Loss rate: 0.35%

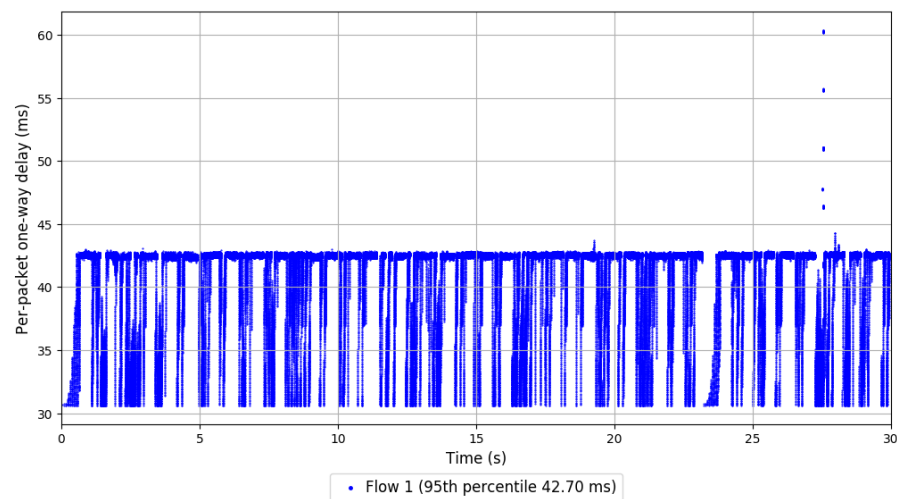
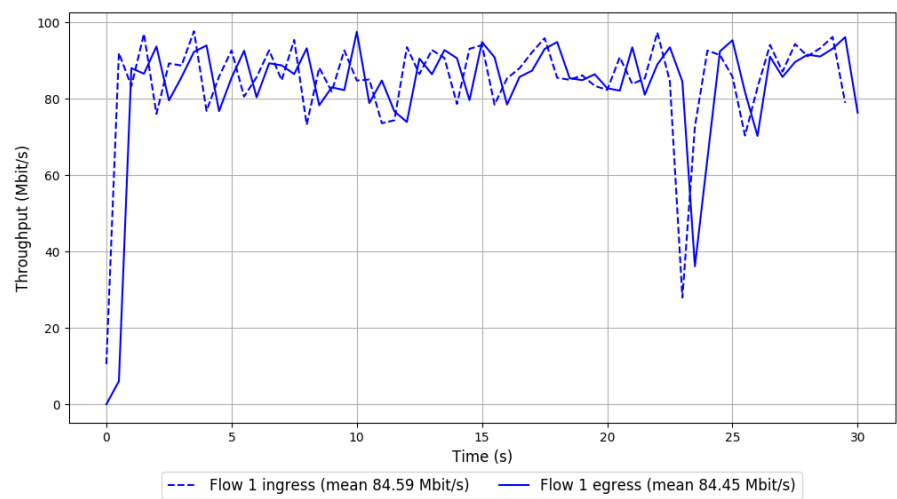
-- Flow 1:

Average throughput: 84.45 Mbit/s

95th percentile per-packet one-way delay: 42.697 ms

Loss rate: 0.35%

Run 9: Report of Verus — Data Link

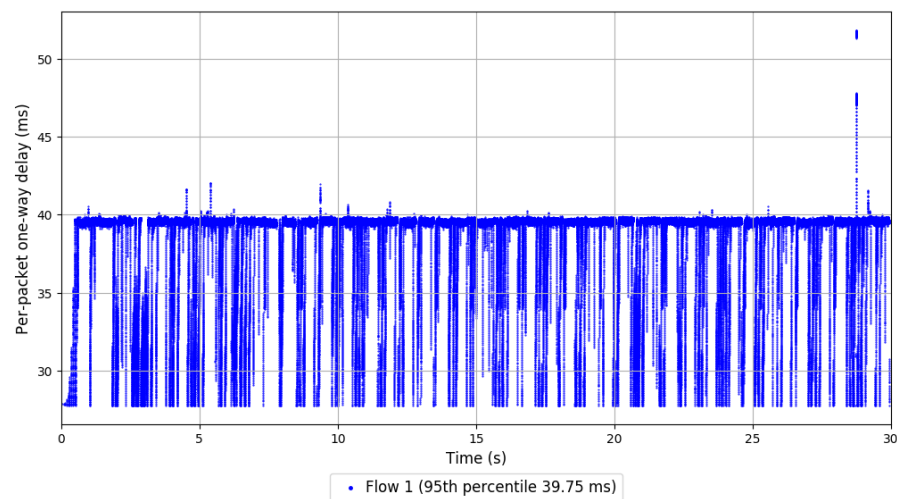
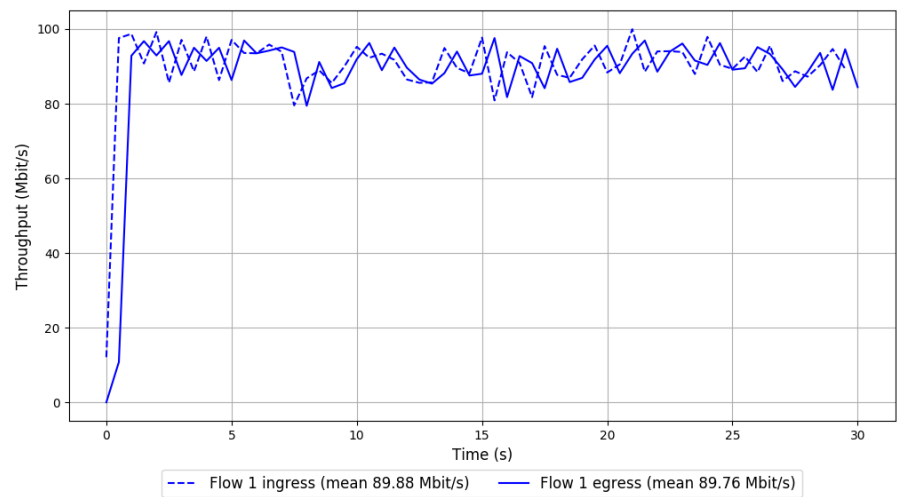


Run 10: Statistics of Verus

Start at: 2018-06-05 22:48:32
End at: 2018-06-05 22:49:02
Local clock offset: 0.404 ms
Remote clock offset: -2.278 ms

Below is generated by plot.py at 2018-06-05 23:22:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.76 Mbit/s
95th percentile per-packet one-way delay: 39.751 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 89.76 Mbit/s
95th percentile per-packet one-way delay: 39.751 ms
Loss rate: 0.35%

Run 10: Report of Verus — Data Link

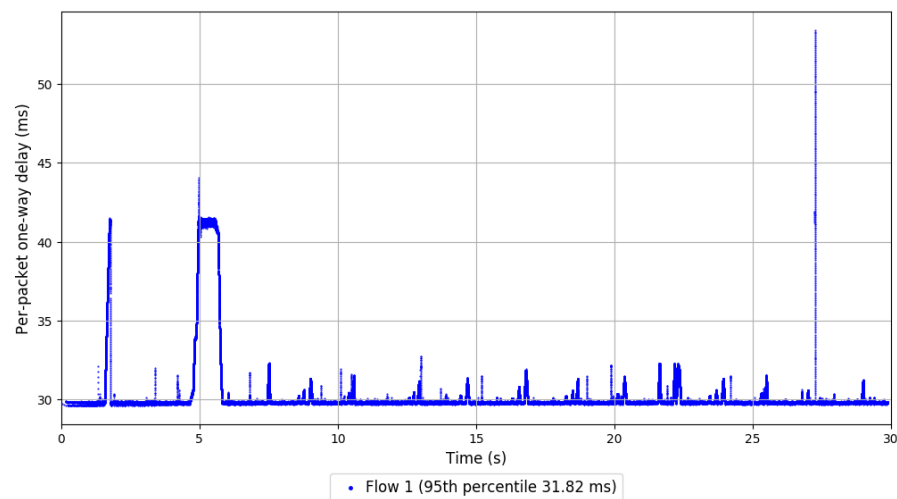
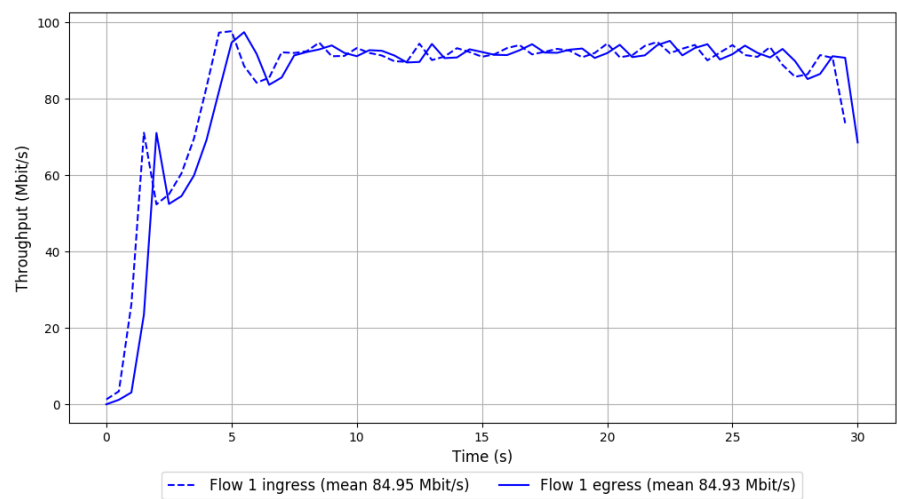


Run 1: Statistics of PCC-Vivace

Start at: 2018-06-05 19:41:09
End at: 2018-06-05 19:41:39
Local clock offset: 1.282 ms
Remote clock offset: -0.193 ms

Below is generated by plot.py at 2018-06-05 23:23:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.93 Mbit/s
95th percentile per-packet one-way delay: 31.822 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 84.93 Mbit/s
95th percentile per-packet one-way delay: 31.822 ms
Loss rate: 0.22%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-05 20:02:04

End at: 2018-06-05 20:02:34

Local clock offset: 1.564 ms

Remote clock offset: 0.876 ms

Below is generated by plot.py at 2018-06-05 23:23:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.29 Mbit/s

95th percentile per-packet one-way delay: 30.502 ms

Loss rate: 0.22%

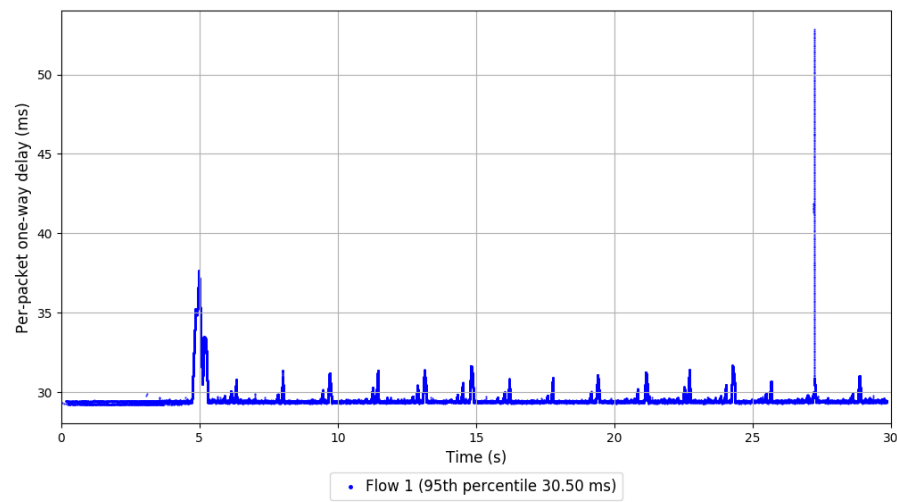
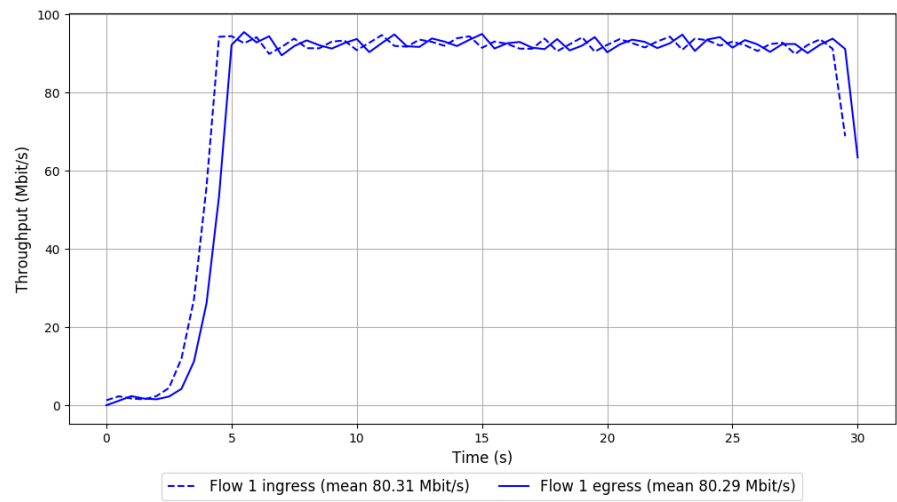
-- Flow 1:

Average throughput: 80.29 Mbit/s

95th percentile per-packet one-way delay: 30.502 ms

Loss rate: 0.22%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-05 20:23:03

End at: 2018-06-05 20:23:33

Local clock offset: 0.601 ms

Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-06-05 23:23:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.19 Mbit/s

95th percentile per-packet one-way delay: 32.200 ms

Loss rate: 0.23%

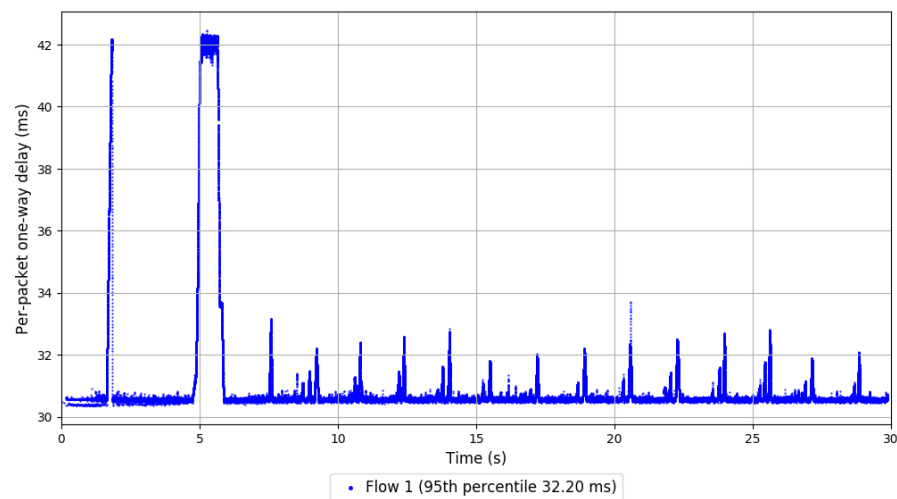
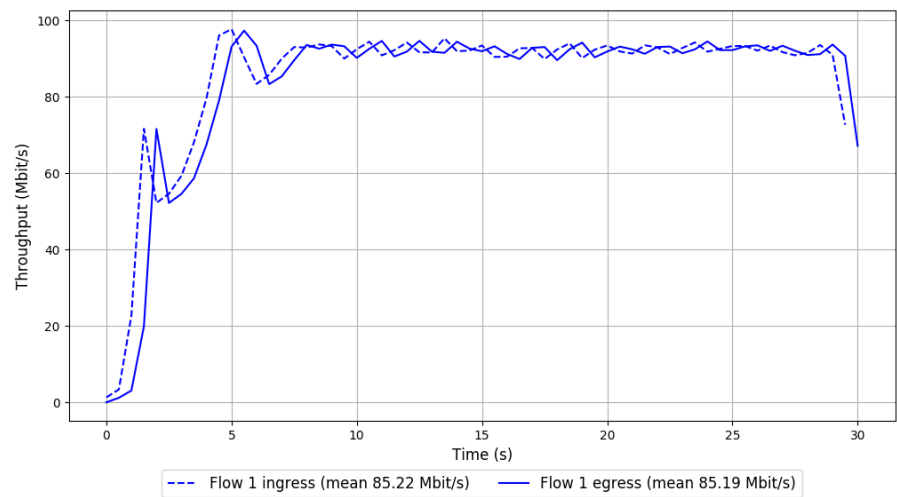
-- Flow 1:

Average throughput: 85.19 Mbit/s

95th percentile per-packet one-way delay: 32.200 ms

Loss rate: 0.23%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-05 20:44:04

End at: 2018-06-05 20:44:34

Local clock offset: 0.506 ms

Remote clock offset: -2.327 ms

Below is generated by plot.py at 2018-06-05 23:23:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.52 Mbit/s

95th percentile per-packet one-way delay: 33.845 ms

Loss rate: 0.21%

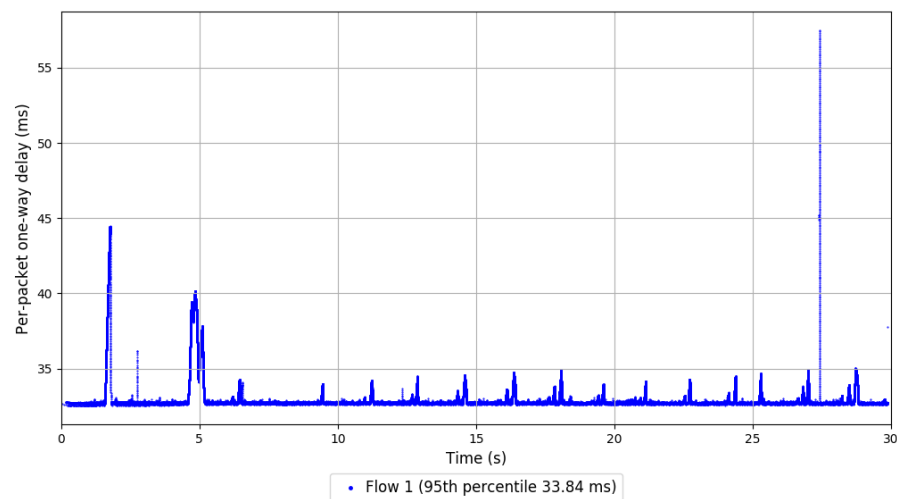
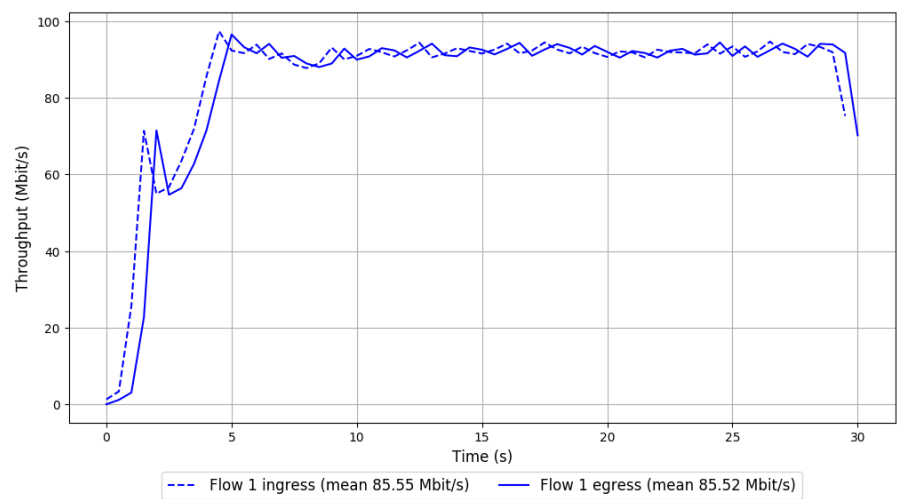
-- Flow 1:

Average throughput: 85.52 Mbit/s

95th percentile per-packet one-way delay: 33.845 ms

Loss rate: 0.21%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-05 21:05:02

End at: 2018-06-05 21:05:32

Local clock offset: 0.384 ms

Remote clock offset: -0.748 ms

Below is generated by plot.py at 2018-06-05 23:23:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.32 Mbit/s

95th percentile per-packet one-way delay: 33.498 ms

Loss rate: 0.24%

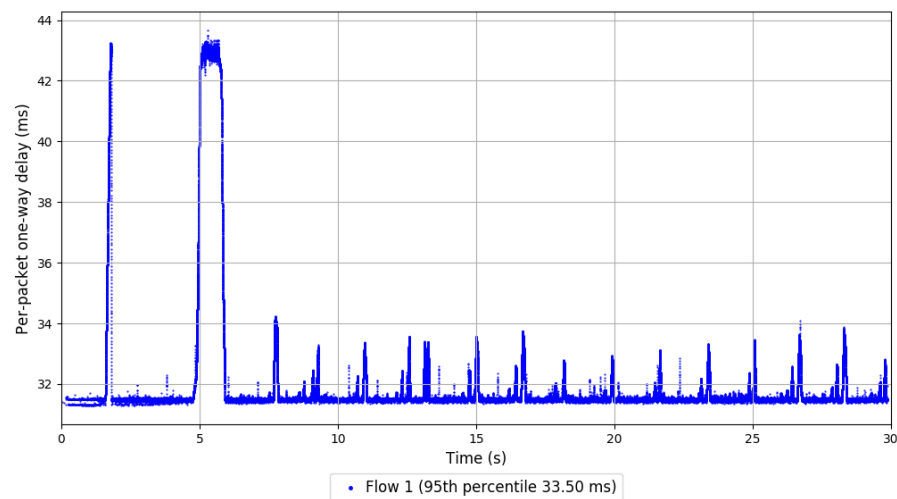
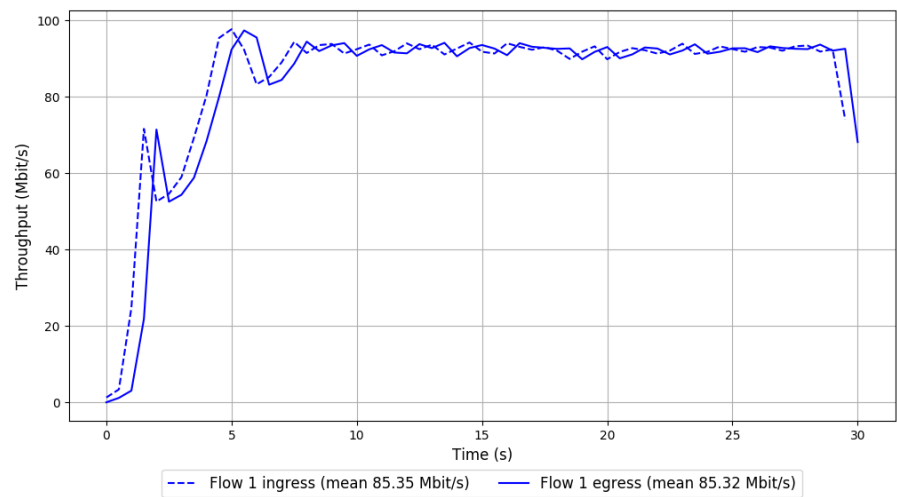
-- Flow 1:

Average throughput: 85.32 Mbit/s

95th percentile per-packet one-way delay: 33.498 ms

Loss rate: 0.24%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-06-05 21:26:03

End at: 2018-06-05 21:26:33

Local clock offset: 0.523 ms

Remote clock offset: -2.275 ms

Below is generated by plot.py at 2018-06-05 23:23:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.56 Mbit/s

95th percentile per-packet one-way delay: 34.845 ms

Loss rate: 0.21%

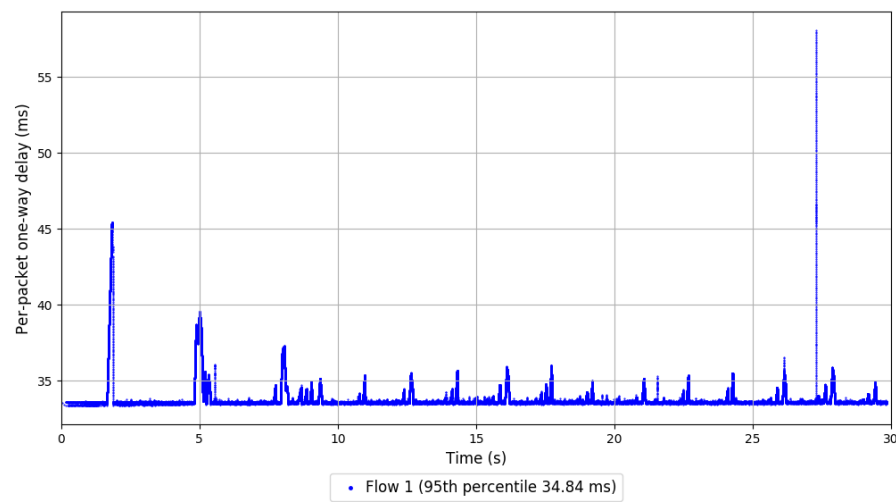
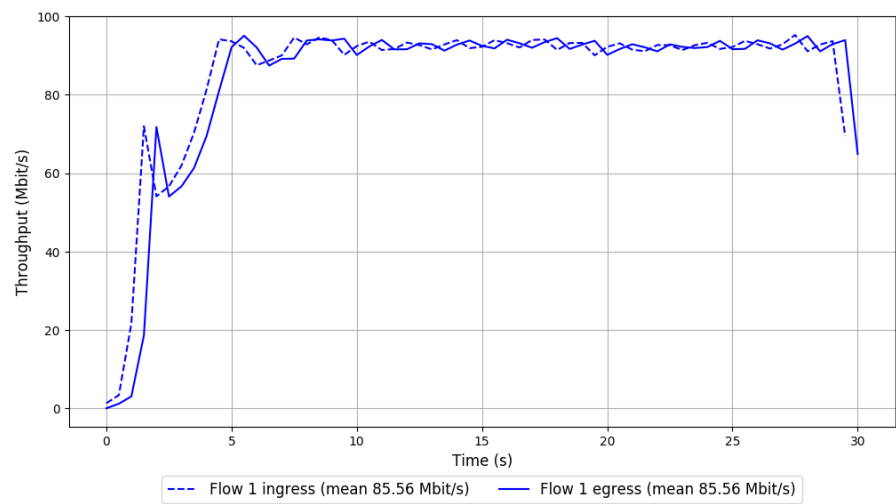
-- Flow 1:

Average throughput: 85.56 Mbit/s

95th percentile per-packet one-way delay: 34.845 ms

Loss rate: 0.21%

Run 6: Report of PCC-Vivace — Data Link

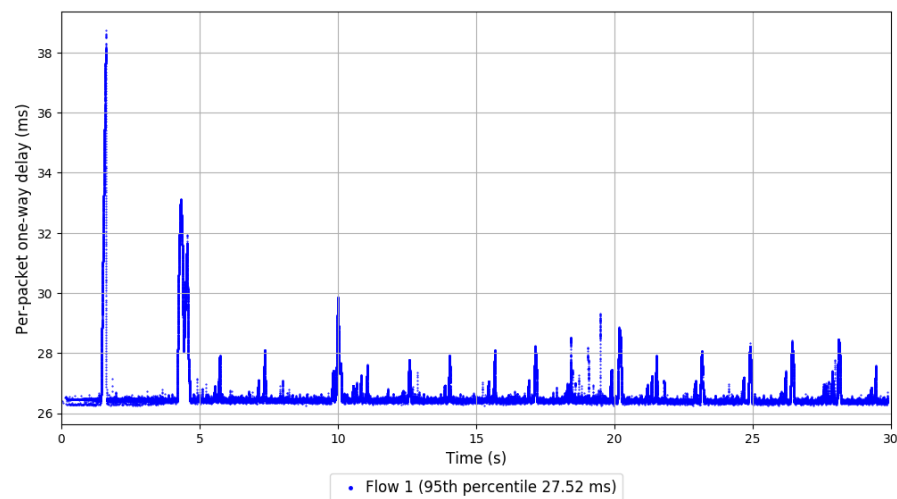
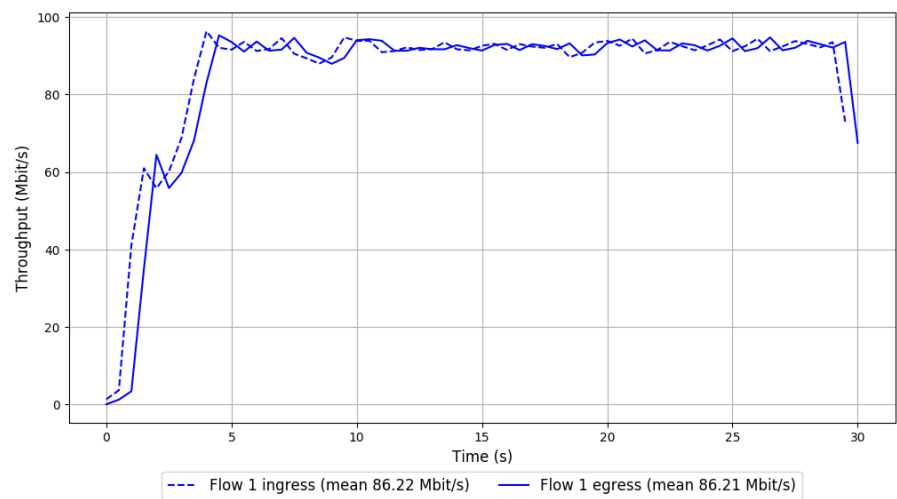


Run 7: Statistics of PCC-Vivace

Start at: 2018-06-05 21:47:05
End at: 2018-06-05 21:47:35
Local clock offset: 0.202 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-06-05 23:23:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.21 Mbit/s
95th percentile per-packet one-way delay: 27.517 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 86.21 Mbit/s
95th percentile per-packet one-way delay: 27.517 ms
Loss rate: 0.20%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-06-05 22:08:00

End at: 2018-06-05 22:08:30

Local clock offset: 0.096 ms

Remote clock offset: -3.111 ms

Below is generated by plot.py at 2018-06-05 23:23:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.69 Mbit/s

95th percentile per-packet one-way delay: 33.635 ms

Loss rate: 0.20%

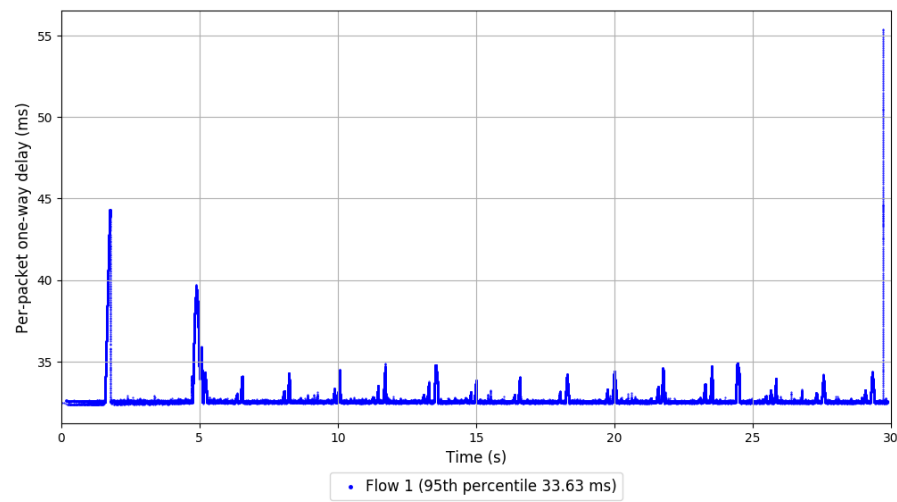
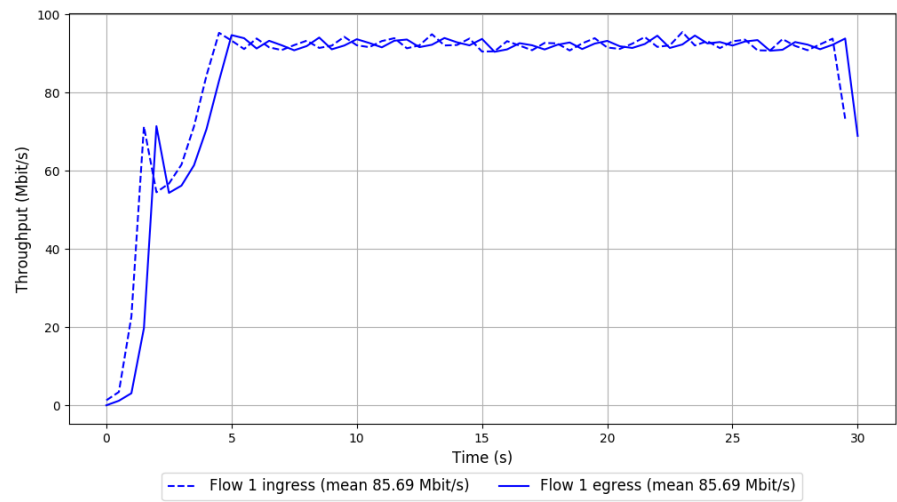
-- Flow 1:

Average throughput: 85.69 Mbit/s

95th percentile per-packet one-way delay: 33.635 ms

Loss rate: 0.20%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-05 22:28:57

End at: 2018-06-05 22:29:28

Local clock offset: 0.209 ms

Remote clock offset: -0.138 ms

Below is generated by plot.py at 2018-06-05 23:23:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.53 Mbit/s

95th percentile per-packet one-way delay: 32.024 ms

Loss rate: 0.23%

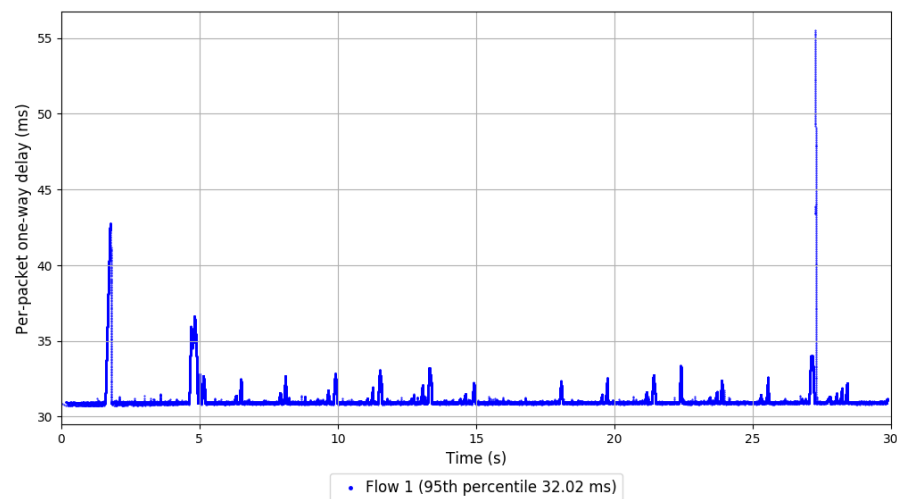
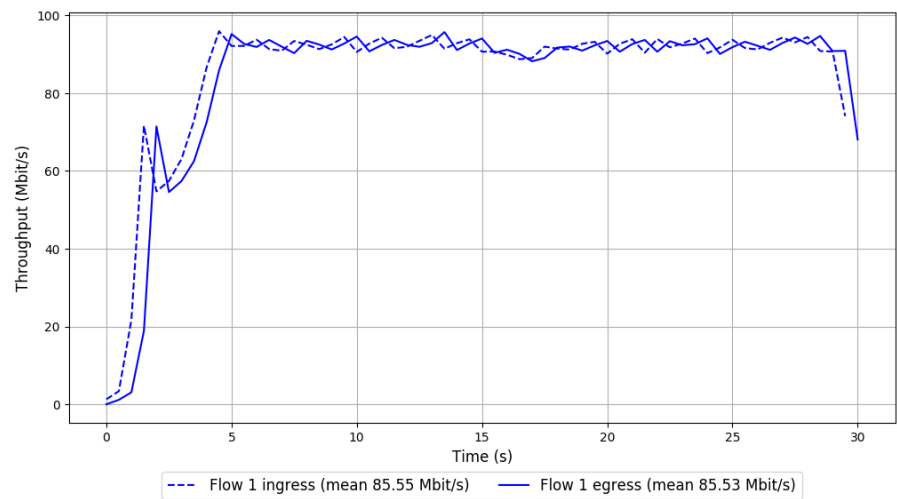
-- Flow 1:

Average throughput: 85.53 Mbit/s

95th percentile per-packet one-way delay: 32.024 ms

Loss rate: 0.23%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-06-05 22:49:51

End at: 2018-06-05 22:50:21

Local clock offset: 0.437 ms

Remote clock offset: -0.221 ms

Below is generated by plot.py at 2018-06-05 23:23:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.64 Mbit/s

95th percentile per-packet one-way delay: 37.029 ms

Loss rate: 0.22%

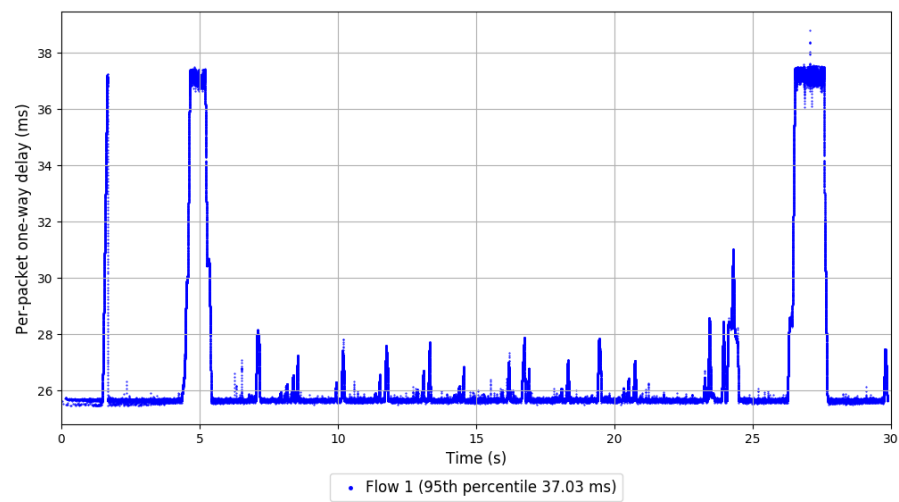
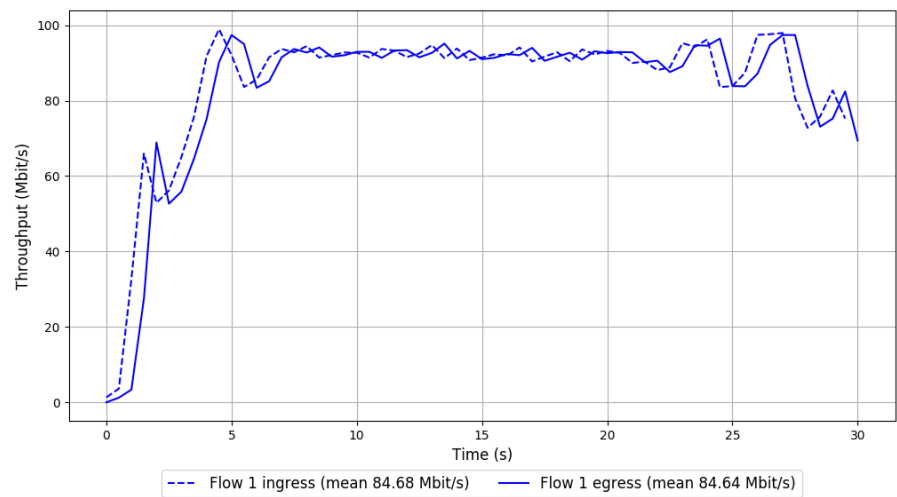
-- Flow 1:

Average throughput: 84.64 Mbit/s

95th percentile per-packet one-way delay: 37.029 ms

Loss rate: 0.22%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-06-05 19:47:45

End at: 2018-06-05 19:48:15

Local clock offset: 1.367 ms

Remote clock offset: -2.005 ms

Below is generated by plot.py at 2018-06-05 23:23:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 32.142 ms

Loss rate: 0.25%

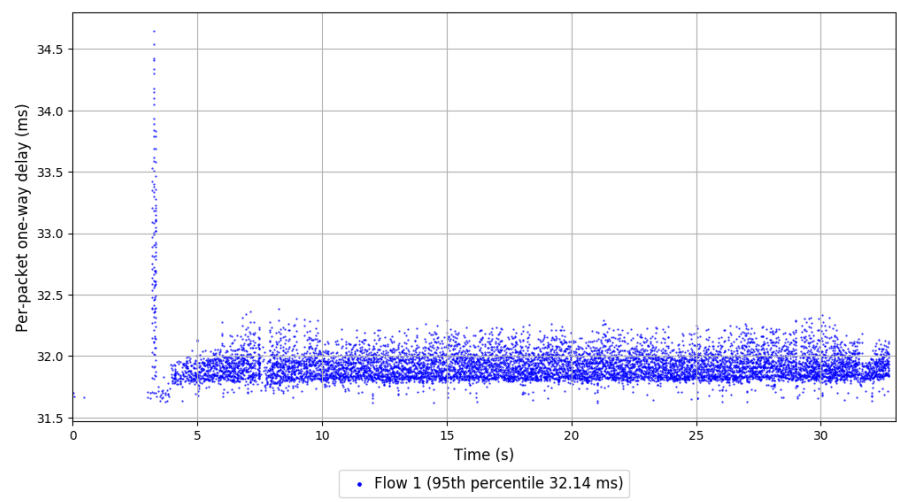
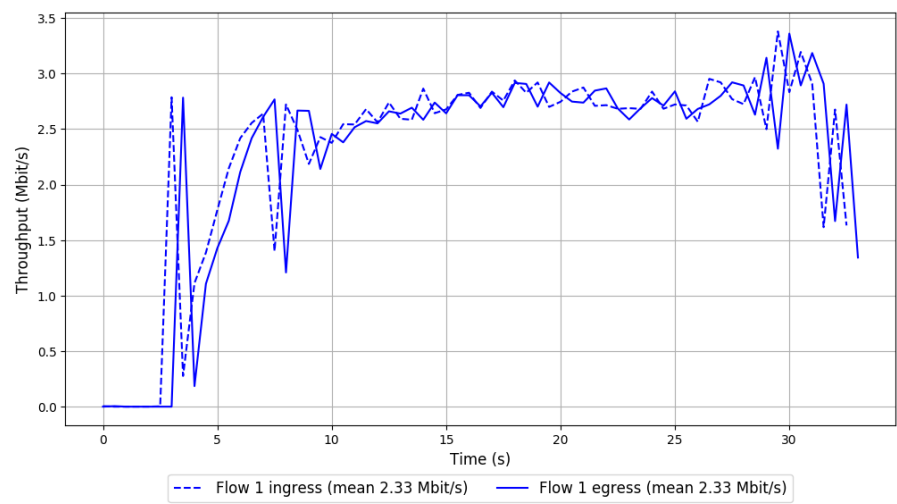
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 32.142 ms

Loss rate: 0.25%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-06-05 20:08:40

End at: 2018-06-05 20:09:10

Local clock offset: 1.147 ms

Remote clock offset: 0.677 ms

Below is generated by plot.py at 2018-06-05 23:23:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 26.222 ms

Loss rate: 0.24%

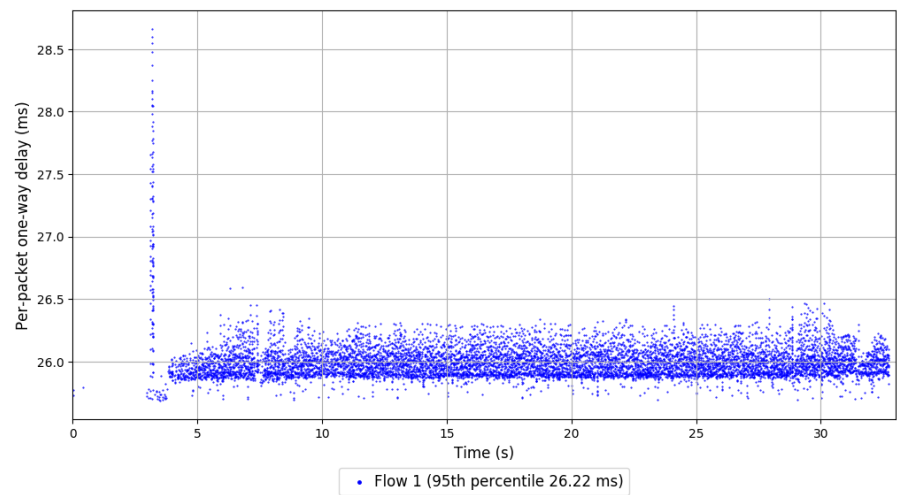
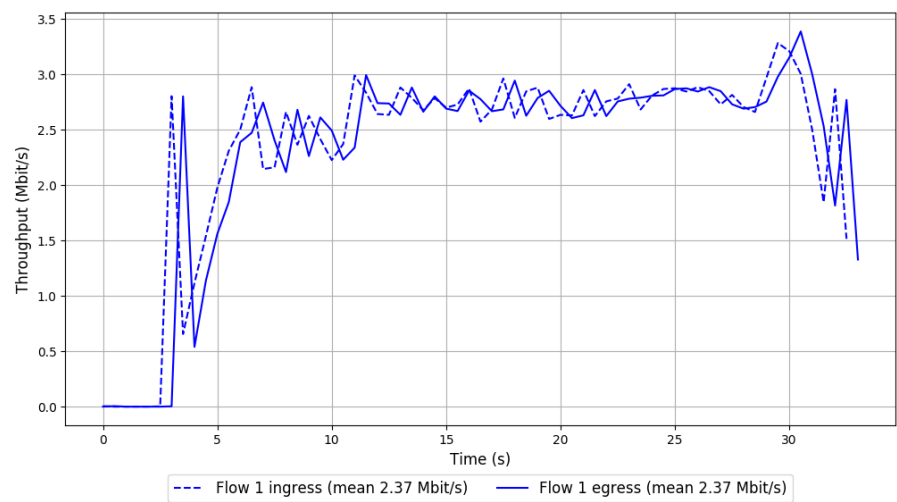
-- Flow 1:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 26.222 ms

Loss rate: 0.24%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-05 20:29:41

End at: 2018-06-05 20:30:11

Local clock offset: 0.509 ms

Remote clock offset: 0.646 ms

Below is generated by plot.py at 2018-06-05 23:23:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 30.351 ms

Loss rate: 0.24%

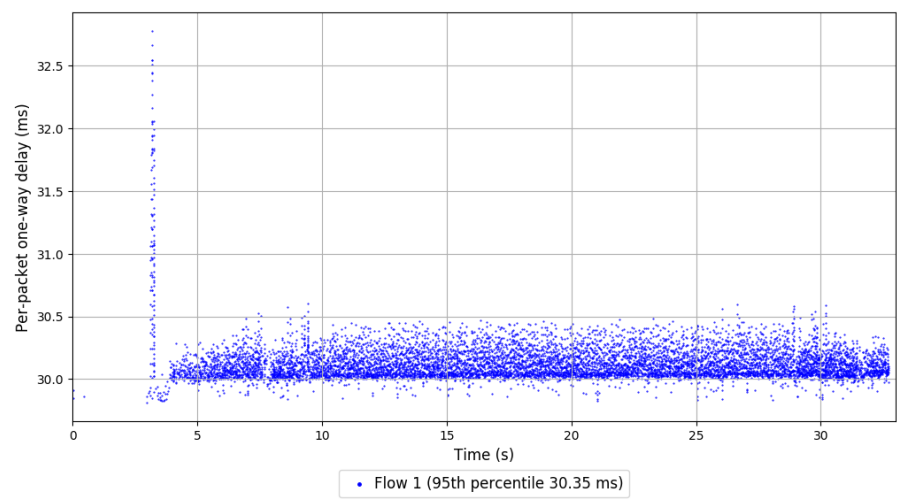
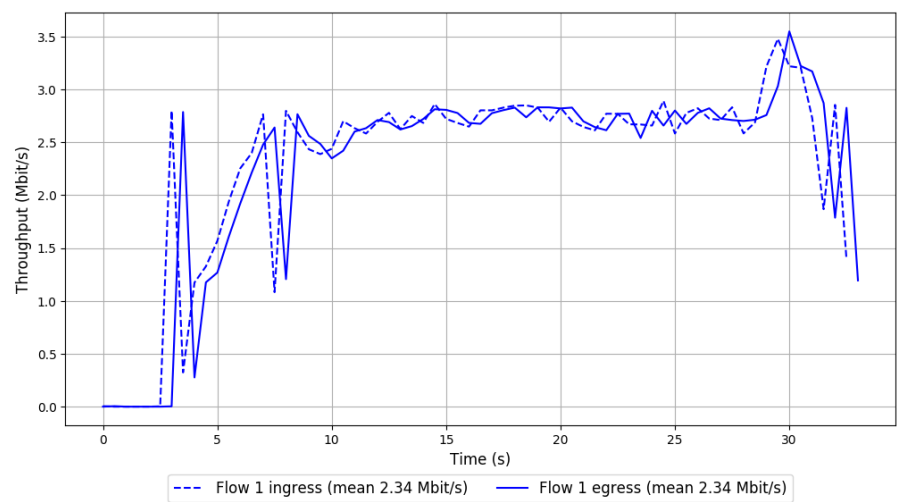
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 30.351 ms

Loss rate: 0.24%

Run 3: Report of WebRTC media — Data Link

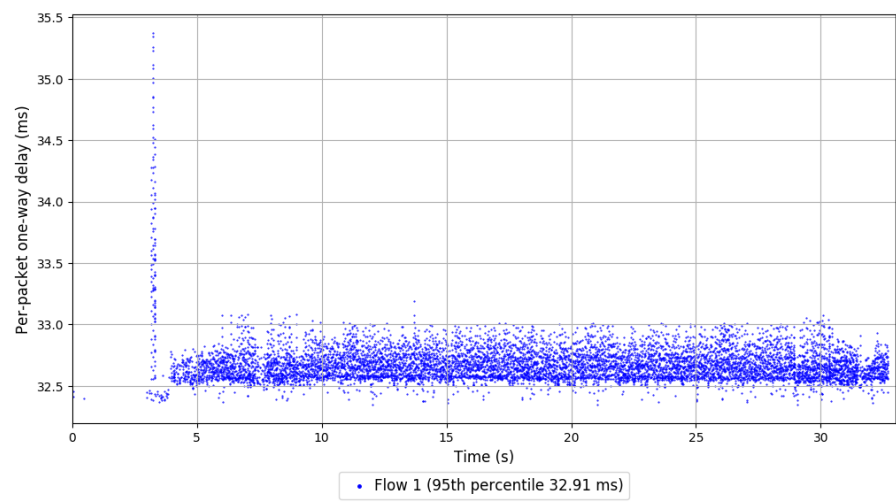
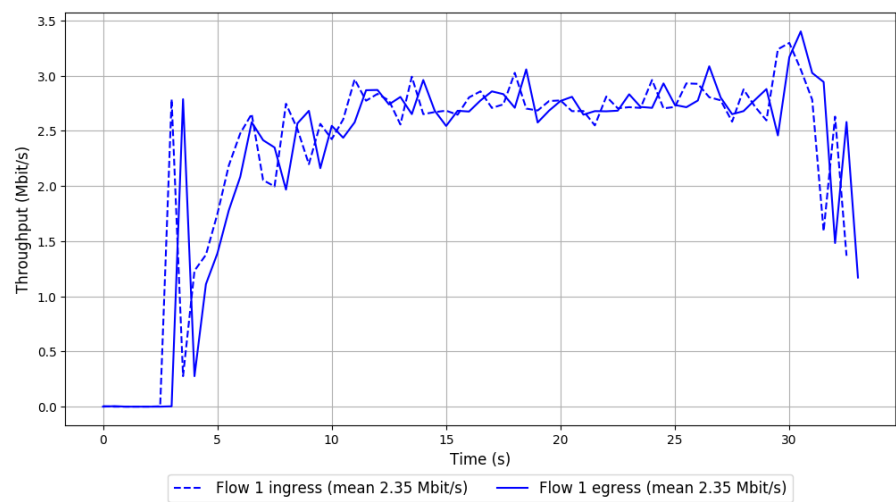


Run 4: Statistics of WebRTC media

Start at: 2018-06-05 20:50:41
End at: 2018-06-05 20:51:11
Local clock offset: 0.496 ms
Remote clock offset: -2.598 ms

Below is generated by plot.py at 2018-06-05 23:23:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 32.906 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 32.906 ms
Loss rate: 0.25%

Run 4: Report of WebRTC media — Data Link

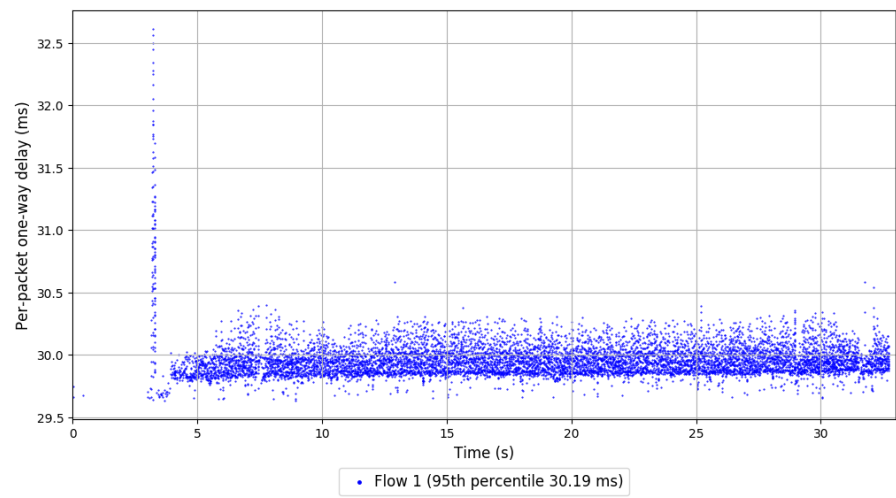
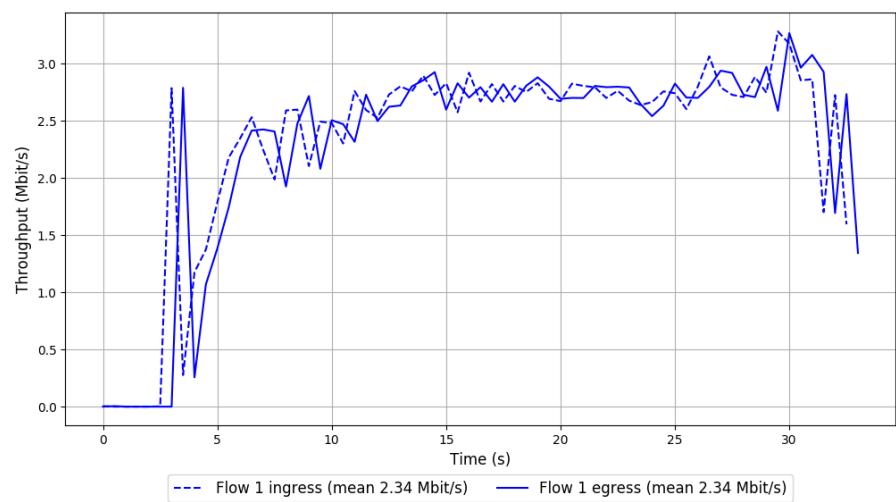


Run 5: Statistics of WebRTC media

Start at: 2018-06-05 21:11:38
End at: 2018-06-05 21:12:08
Local clock offset: 0.401 ms
Remote clock offset: -0.132 ms

Below is generated by plot.py at 2018-06-05 23:23:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 30.191 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 30.191 ms
Loss rate: 0.25%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-06-05 21:32:38

End at: 2018-06-05 21:33:08

Local clock offset: 0.503 ms

Remote clock offset: 0.464 ms

Below is generated by plot.py at 2018-06-05 23:23:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 31.291 ms

Loss rate: 0.25%

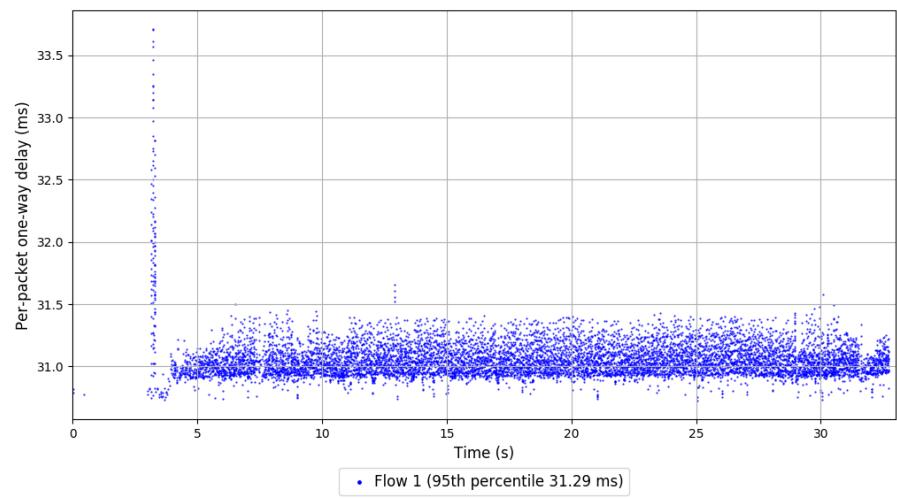
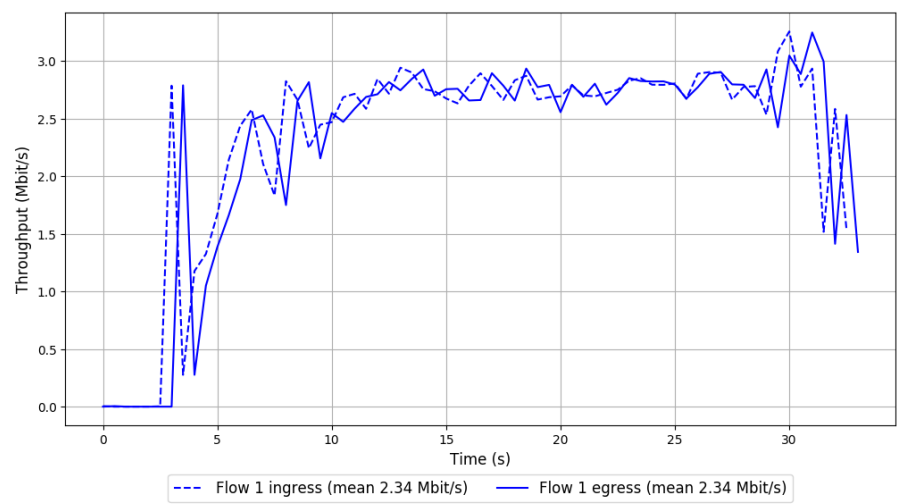
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 31.291 ms

Loss rate: 0.25%

Run 6: Report of WebRTC media — Data Link

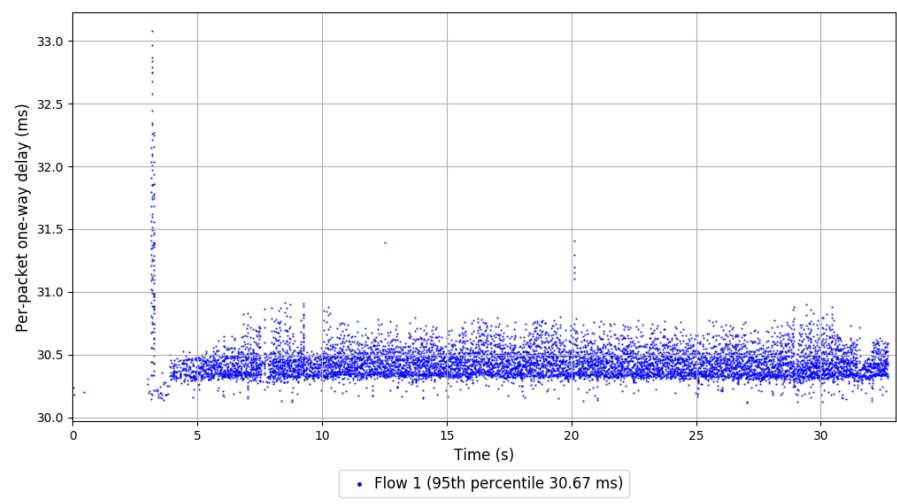
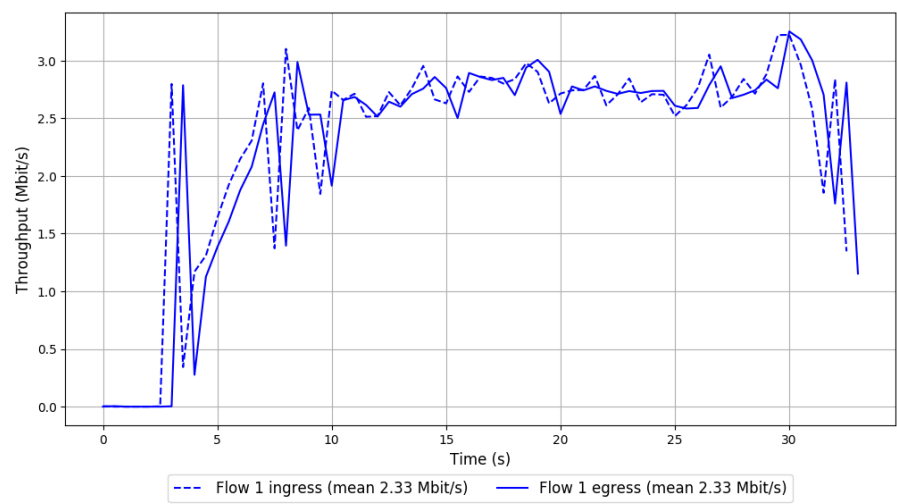


Run 7: Statistics of WebRTC media

Start at: 2018-06-05 21:53:40
End at: 2018-06-05 21:54:10
Local clock offset: -0.009 ms
Remote clock offset: -0.514 ms

Below is generated by plot.py at 2018-06-05 23:23:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 30.667 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 30.667 ms
Loss rate: 0.25%

Run 7: Report of WebRTC media — Data Link

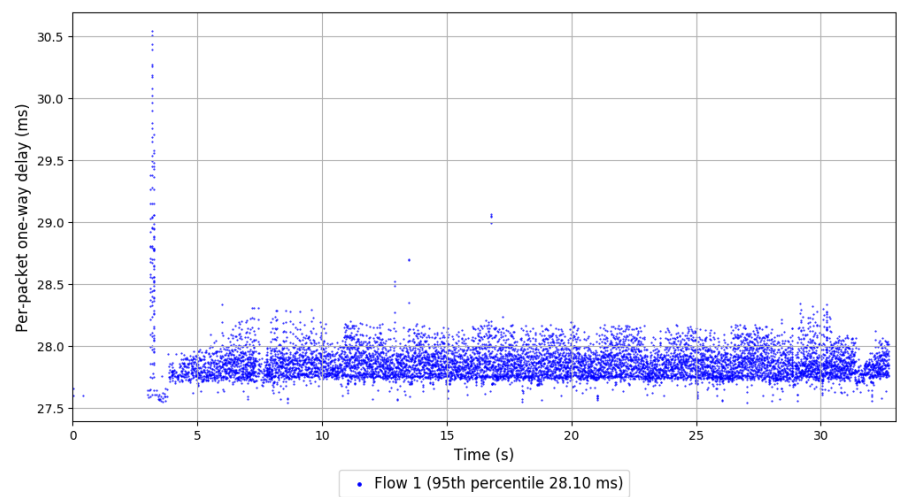
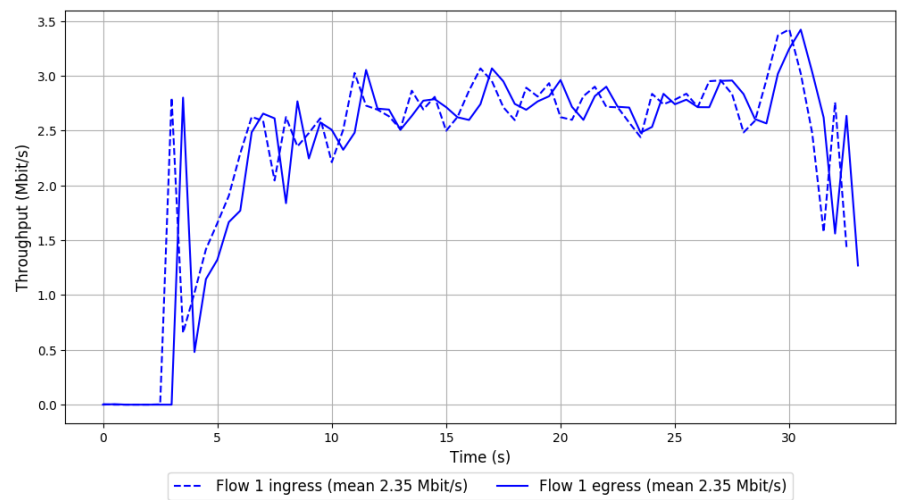


Run 8: Statistics of WebRTC media

Start at: 2018-06-05 22:14:36
End at: 2018-06-05 22:15:06
Local clock offset: 0.178 ms
Remote clock offset: -3.147 ms

Below is generated by plot.py at 2018-06-05 23:23:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 28.104 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 28.104 ms
Loss rate: 0.24%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-06-05 22:35:34

End at: 2018-06-05 22:36:04

Local clock offset: 0.161 ms

Remote clock offset: 0.063 ms

Below is generated by plot.py at 2018-06-05 23:23:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 30.302 ms

Loss rate: 0.21%

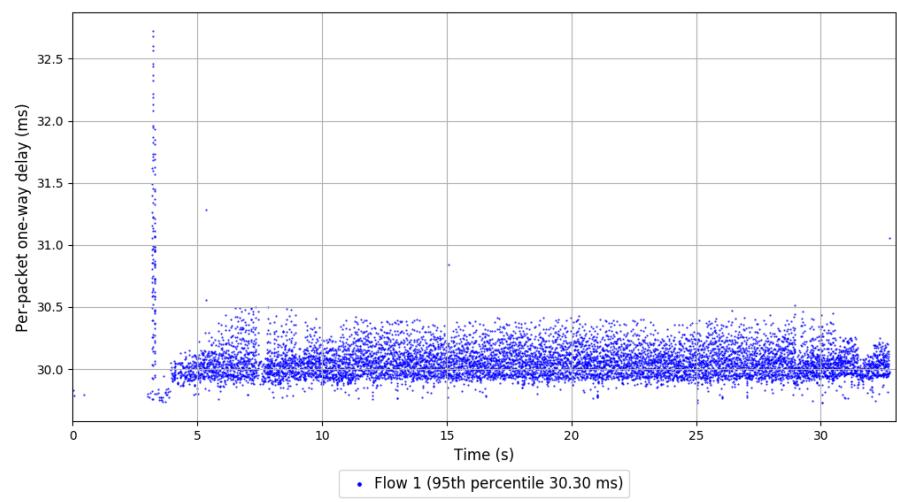
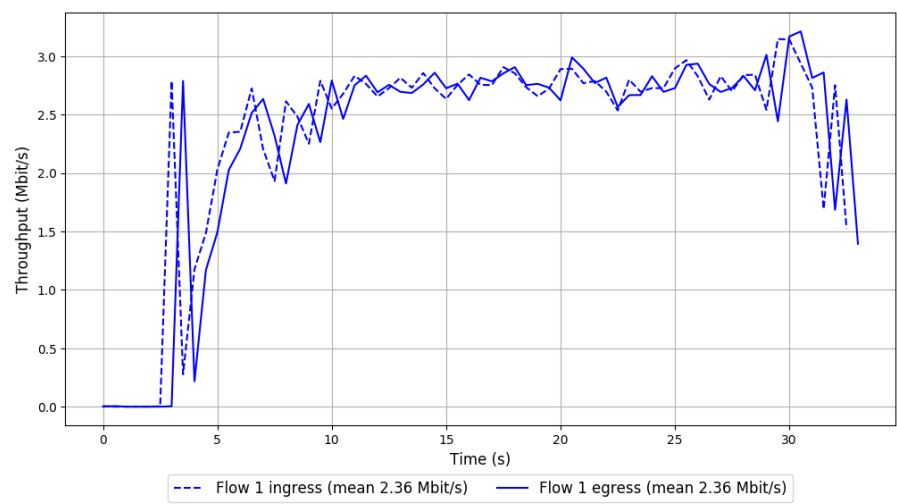
-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 30.302 ms

Loss rate: 0.21%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-05 22:56:27

End at: 2018-06-05 22:56:57

Local clock offset: 0.37 ms

Remote clock offset: -0.306 ms

Below is generated by plot.py at 2018-06-05 23:23:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 26.512 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 26.512 ms

Loss rate: 0.24%

Run 10: Report of WebRTC media — Data Link

