

Pantheon Report

Generated at 2019-10-02 22:34:30 (UTC).

Data path: GCE Iowa on `ens4` (*remote*) → GCE Sydney on `ens4` (*local*).

Repeated the test of 24 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

System info:

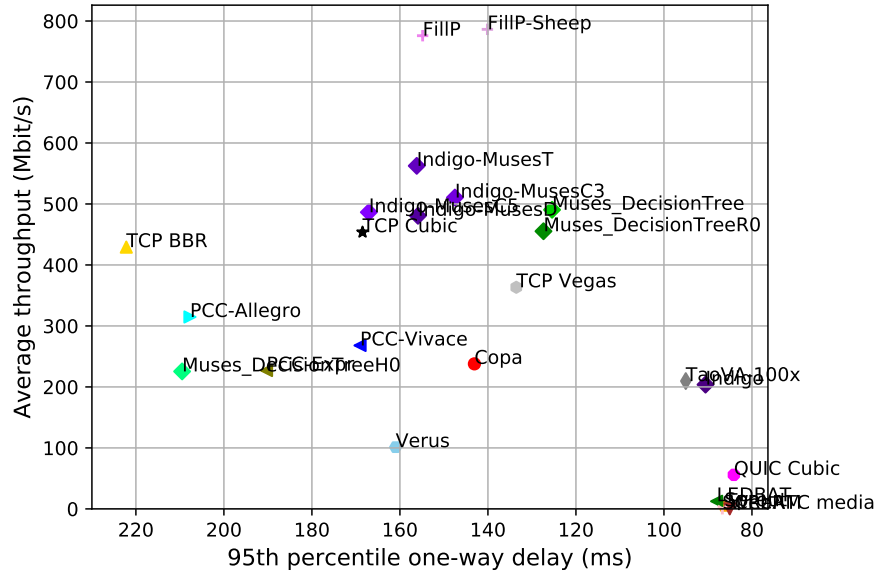
```
Linux 4.15.0-1044-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

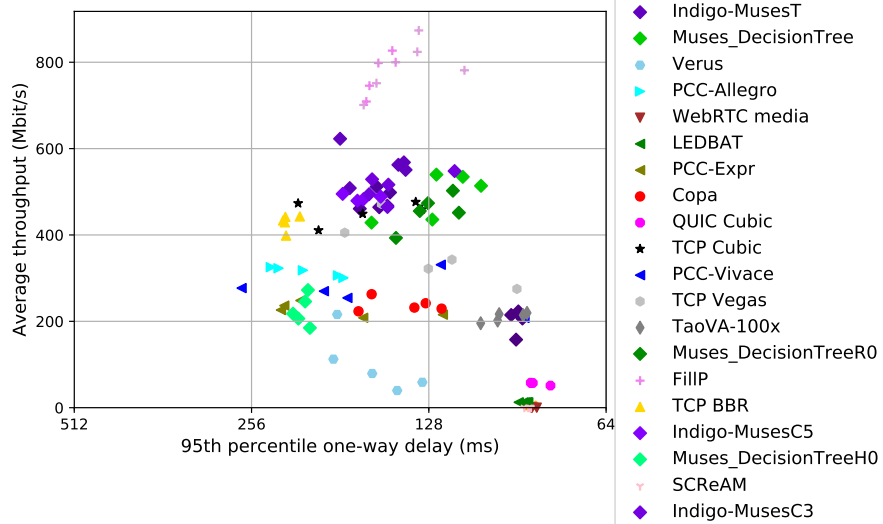
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
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 GCE Iowa to GCE Sydney, 5 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE Iowa to GCE Sydney, 5 runs of 30s each per scheme



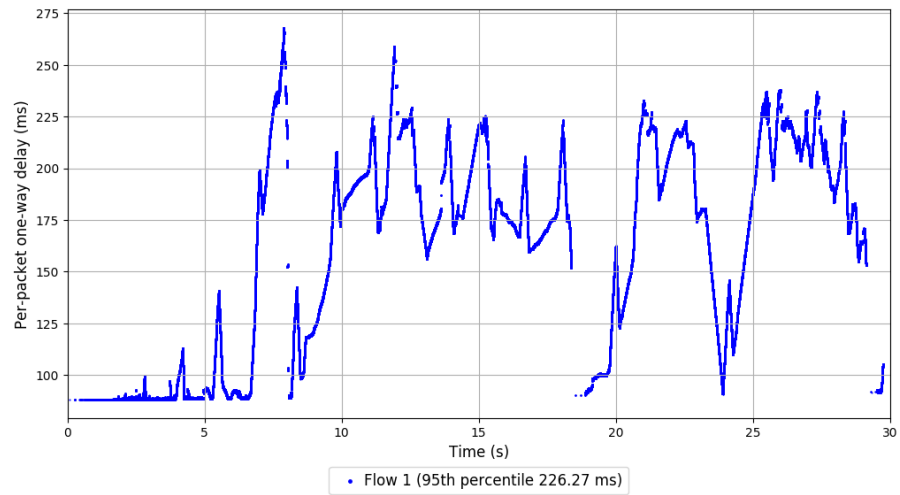
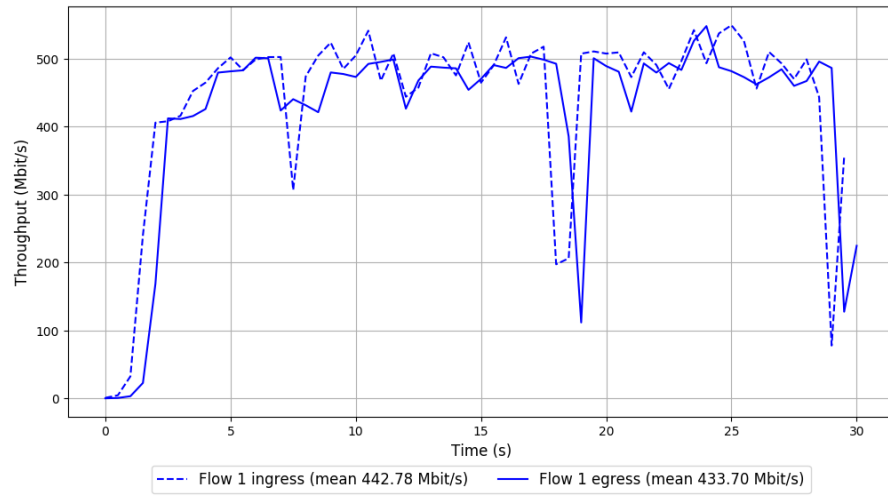
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	429.25	222.18	2.61
Copa	5	237.84	143.07	0.65
TCP Cubic	5	453.75	168.50	0.81
FillP	5	775.93	154.83	3.15
FillP-Sheep	5	786.35	140.12	1.62
Indigo	5	203.78	90.55	0.66
Indigo-MusesC3	5	510.54	147.50	0.68
Indigo-MusesC5	4	486.44	167.06	0.78
Indigo-MusesD	5	480.63	155.90	0.72
Indigo-MusesT	5	562.53	156.18	0.91
LEDBAT	5	12.51	88.03	1.15
Muses_DecisionTree	5	490.49	125.42	0.66
Muses_DecisionTreeH0	5	225.43	209.50	12.63
Muses_DecisionTreeR0	5	455.30	127.37	0.72
PCC-Allegro	5	314.71	207.71	1.83
PCC-Expr	5	226.90	190.32	3.96
QUIC Cubic	4	55.83	84.11	0.91
SCReAM	5	0.22	86.73	0.51
Sprout	5	4.42	86.28	0.75
TaoVA-100x	5	209.59	95.04	0.61
TCP Vegas	5	363.38	133.55	0.61
Verus	5	101.24	160.98	0.52
PCC-Vivace	5	268.01	169.07	0.96
WebRTC media	3	0.05	85.06	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-10-02 17:30:04
End at: 2019-10-02 17:30:34
Local clock offset: -25.709 ms
Remote clock offset: 4.812 ms

Below is generated by plot.py at 2019-10-02 20:38:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 433.70 Mbit/s
95th percentile per-packet one-way delay: 226.272 ms
Loss rate: 2.61%
-- Flow 1:
Average throughput: 433.70 Mbit/s
95th percentile per-packet one-way delay: 226.272 ms
Loss rate: 2.61%

Run 1: Report of TCP BBR — Data Link

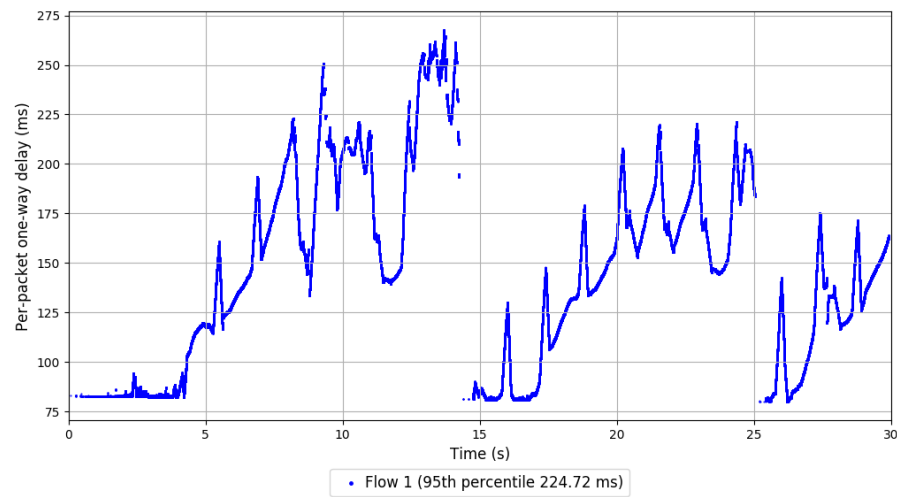
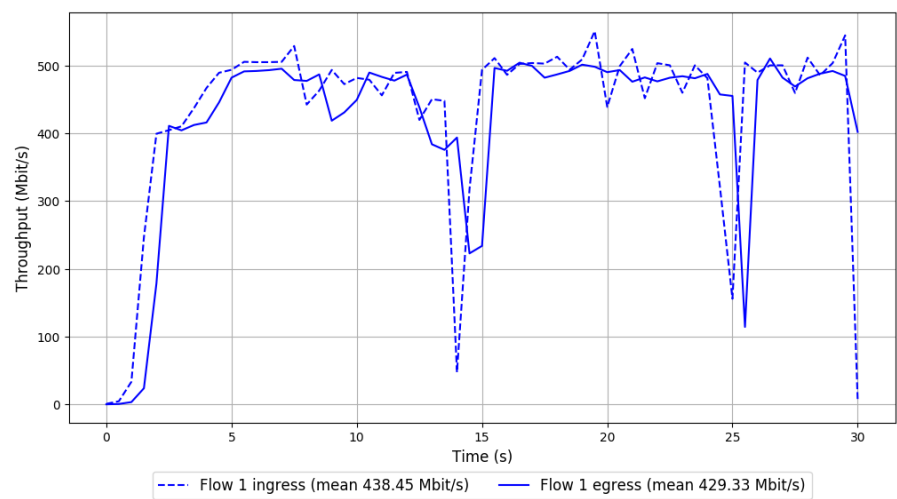


Run 2: Statistics of TCP BBR

Start at: 2019-10-02 18:04:35
End at: 2019-10-02 18:05:05
Local clock offset: -41.935 ms
Remote clock offset: 16.537 ms

Below is generated by plot.py at 2019-10-02 20:38:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 429.33 Mbit/s
95th percentile per-packet one-way delay: 224.718 ms
Loss rate: 2.65%
-- Flow 1:
Average throughput: 429.33 Mbit/s
95th percentile per-packet one-way delay: 224.718 ms
Loss rate: 2.65%

Run 2: Report of TCP BBR — Data Link

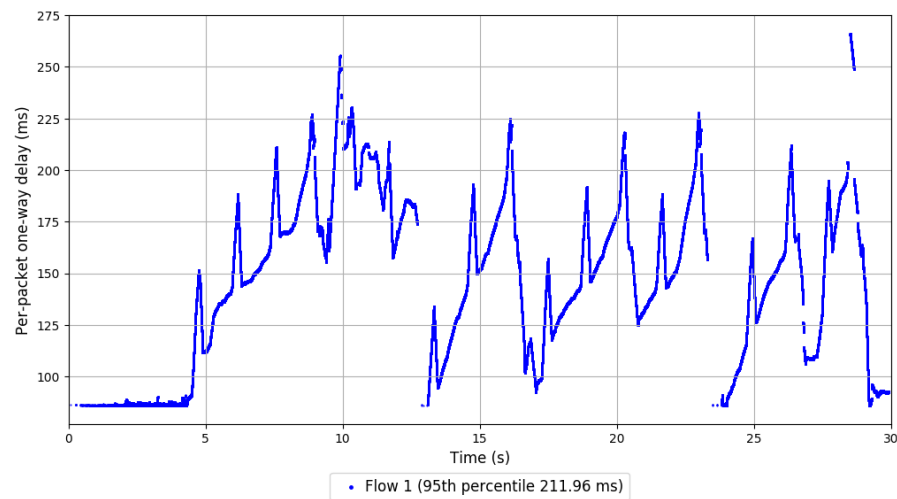
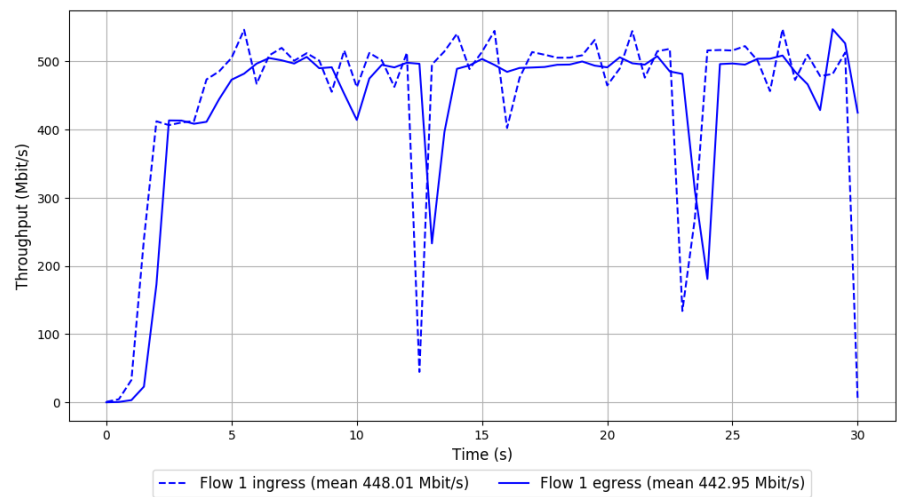


Run 3: Statistics of TCP BBR

Start at: 2019-10-02 18:39:33
End at: 2019-10-02 18:40:03
Local clock offset: -26.408 ms
Remote clock offset: 17.814 ms

Below is generated by plot.py at 2019-10-02 20:39:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 442.95 Mbit/s
95th percentile per-packet one-way delay: 211.963 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 442.95 Mbit/s
95th percentile per-packet one-way delay: 211.963 ms
Loss rate: 1.70%

Run 3: Report of TCP BBR — Data Link

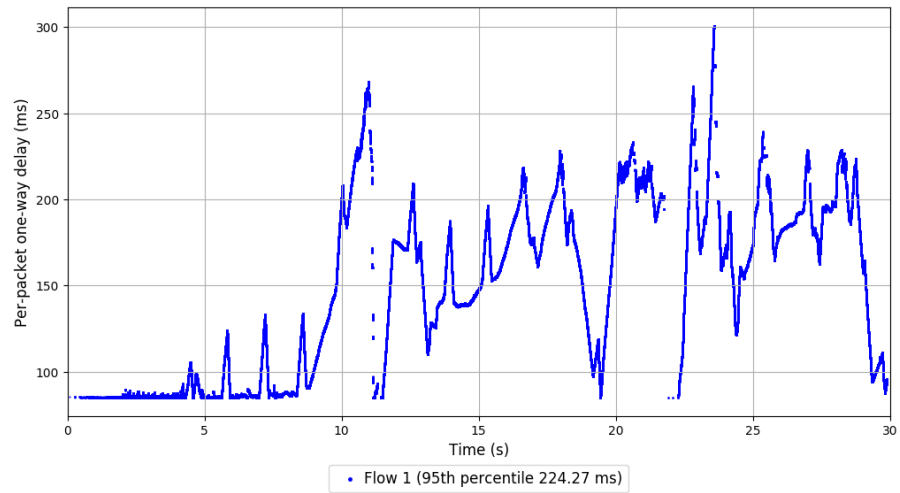
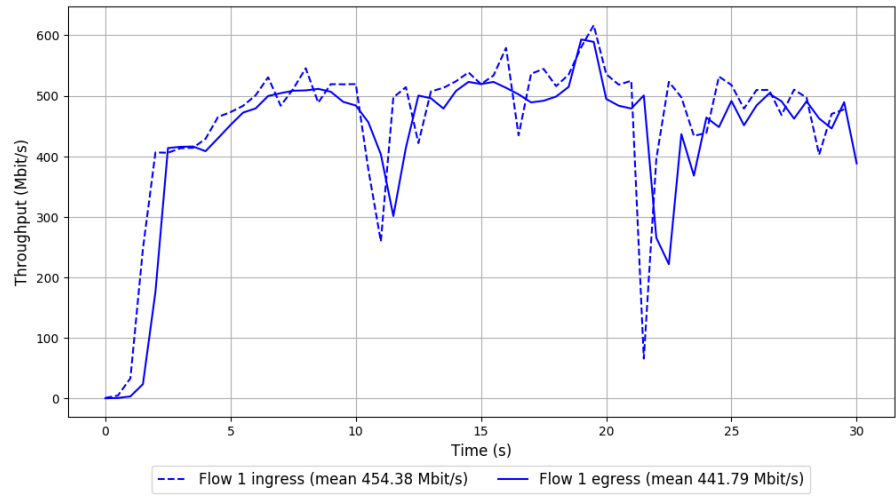


Run 4: Statistics of TCP BBR

Start at: 2019-10-02 19:14:07
End at: 2019-10-02 19:14:37
Local clock offset: -10.215 ms
Remote clock offset: 8.712 ms

Below is generated by plot.py at 2019-10-02 20:39:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 441.79 Mbit/s
95th percentile per-packet one-way delay: 224.270 ms
Loss rate: 3.33%
-- Flow 1:
Average throughput: 441.79 Mbit/s
95th percentile per-packet one-way delay: 224.270 ms
Loss rate: 3.33%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-10-02 19:48:51

End at: 2019-10-02 19:49:21

Local clock offset: -4.079 ms

Remote clock offset: 3.527 ms

Below is generated by plot.py at 2019-10-02 20:39:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 398.50 Mbit/s

95th percentile per-packet one-way delay: 223.677 ms

Loss rate: 2.76%

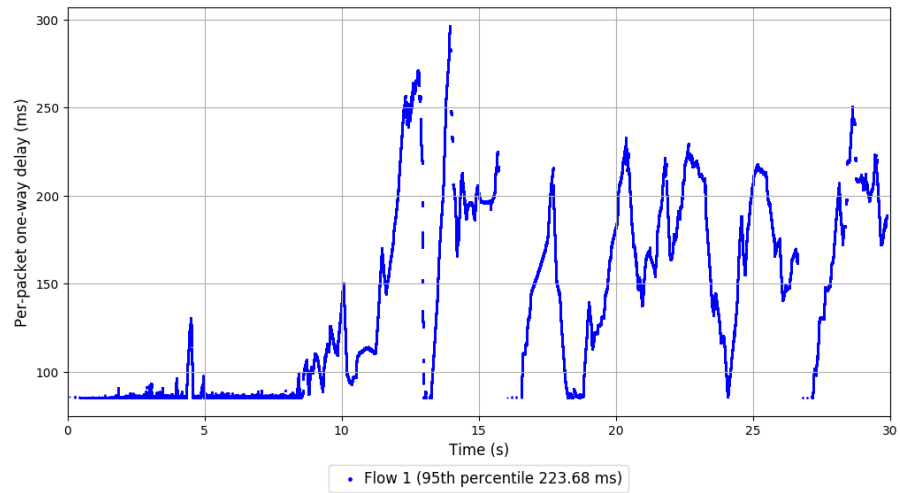
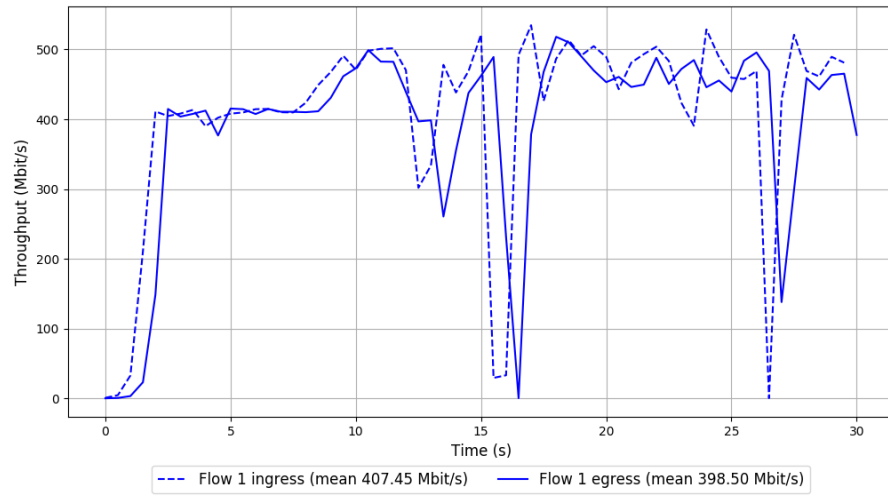
-- Flow 1:

Average throughput: 398.50 Mbit/s

95th percentile per-packet one-way delay: 223.677 ms

Loss rate: 2.76%

Run 5: Report of TCP BBR — Data Link

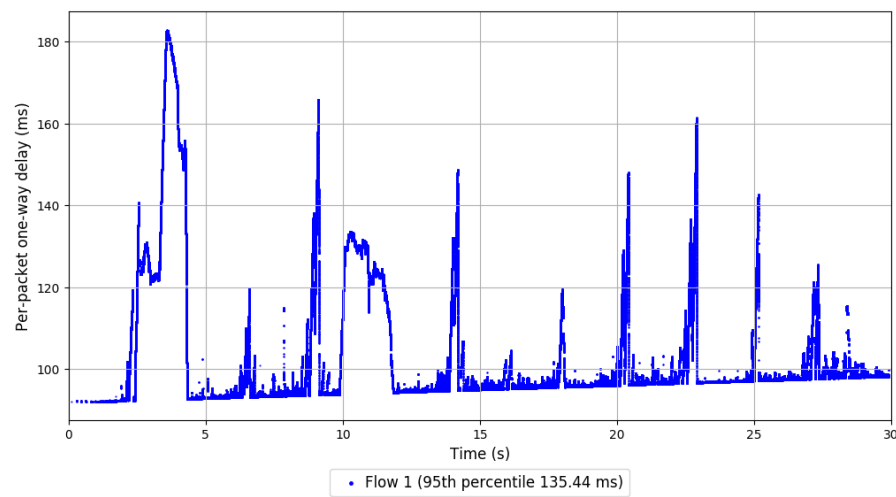
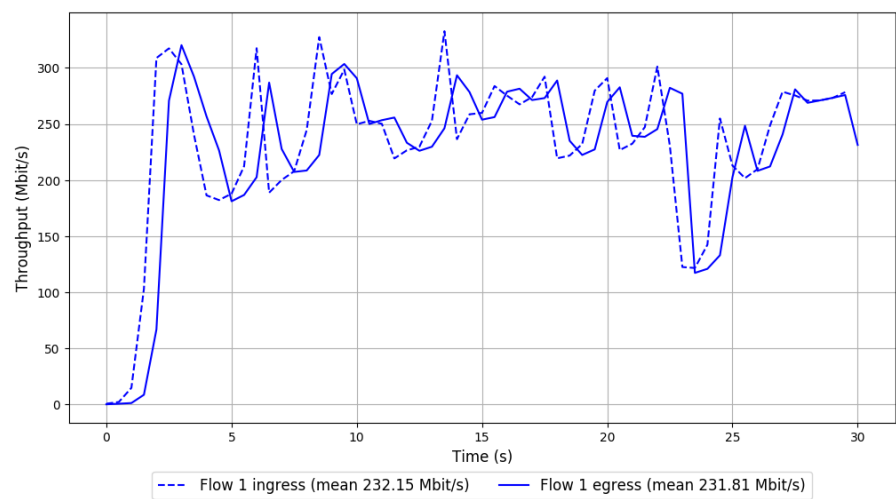


Run 1: Statistics of Copa

Start at: 2019-10-02 17:31:38
End at: 2019-10-02 17:32:08
Local clock offset: -34.507 ms
Remote clock offset: 7.146 ms

Below is generated by plot.py at 2019-10-02 20:39:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 231.81 Mbit/s
95th percentile per-packet one-way delay: 135.439 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 231.81 Mbit/s
95th percentile per-packet one-way delay: 135.439 ms
Loss rate: 0.70%

Run 1: Report of Copa — Data Link

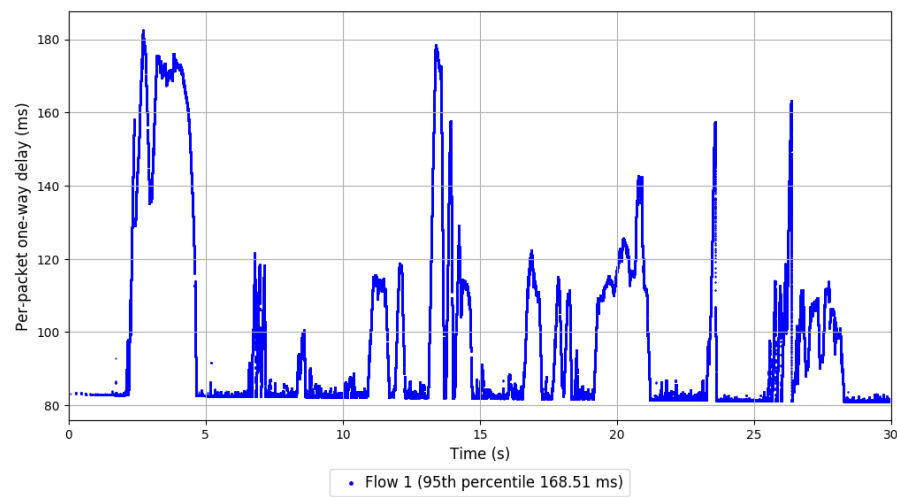
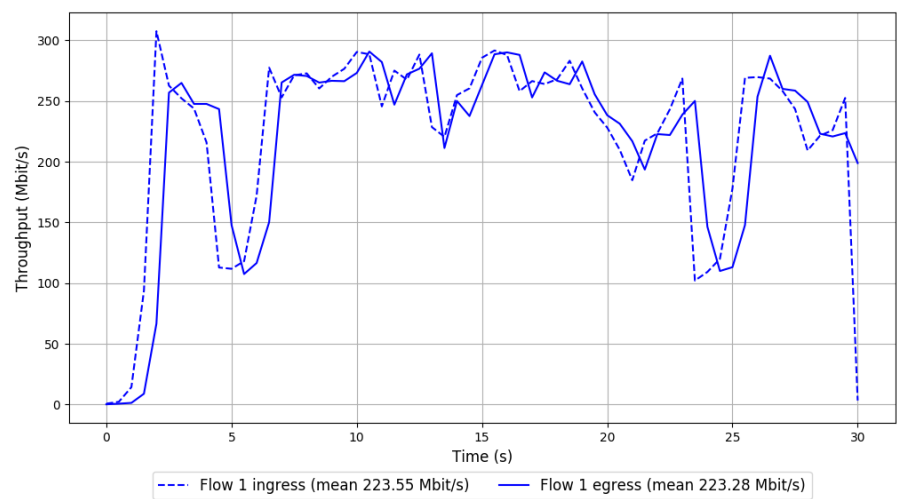


Run 2: Statistics of Copa

Start at: 2019-10-02 18:06:08
End at: 2019-10-02 18:06:38
Local clock offset: -33.487 ms
Remote clock offset: 16.183 ms

Below is generated by plot.py at 2019-10-02 20:39:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 223.28 Mbit/s
95th percentile per-packet one-way delay: 168.506 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 223.28 Mbit/s
95th percentile per-packet one-way delay: 168.506 ms
Loss rate: 0.70%

Run 2: Report of Copa — Data Link

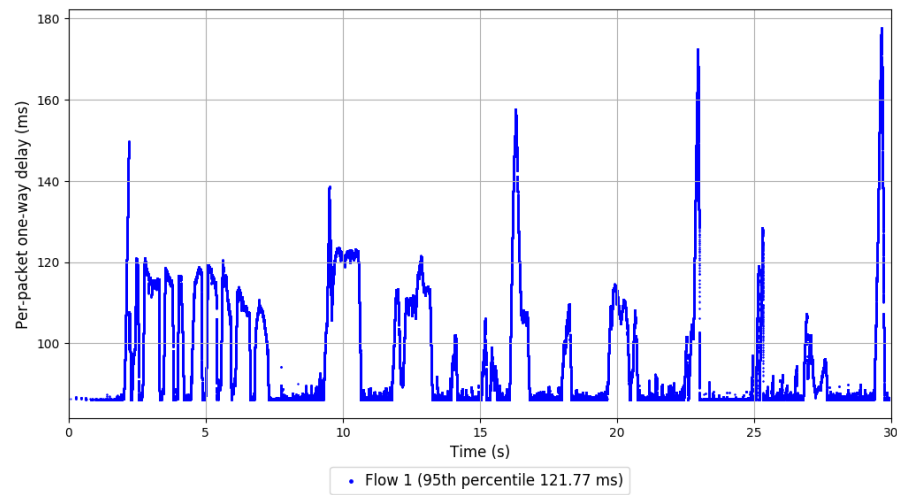
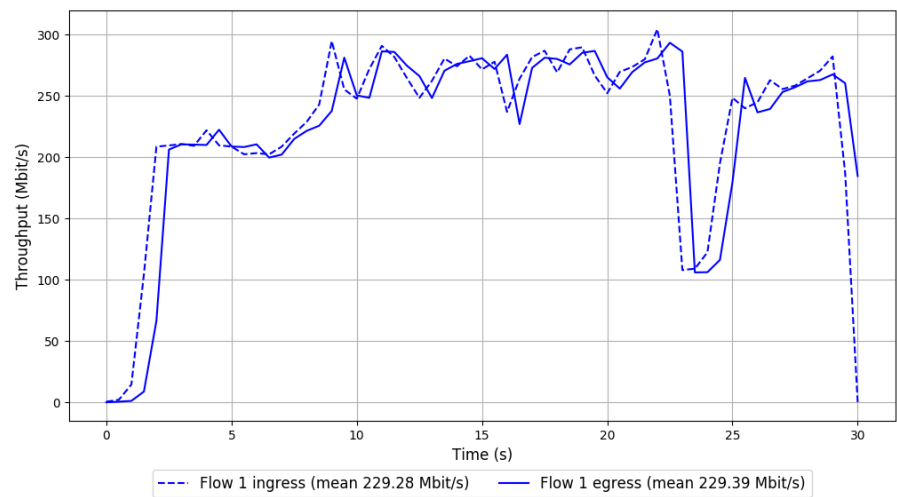


Run 3: Statistics of Copa

Start at: 2019-10-02 18:41:06
End at: 2019-10-02 18:41:36
Local clock offset: -27.923 ms
Remote clock offset: 16.02 ms

Below is generated by plot.py at 2019-10-02 20:39:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 229.39 Mbit/s
95th percentile per-packet one-way delay: 121.765 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 229.39 Mbit/s
95th percentile per-packet one-way delay: 121.765 ms
Loss rate: 0.53%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-10-02 19:15:40

End at: 2019-10-02 19:16:10

Local clock offset: -9.611 ms

Remote clock offset: 7.77 ms

Below is generated by plot.py at 2019-10-02 20:48:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 262.83 Mbit/s

95th percentile per-packet one-way delay: 160.080 ms

Loss rate: 0.63%

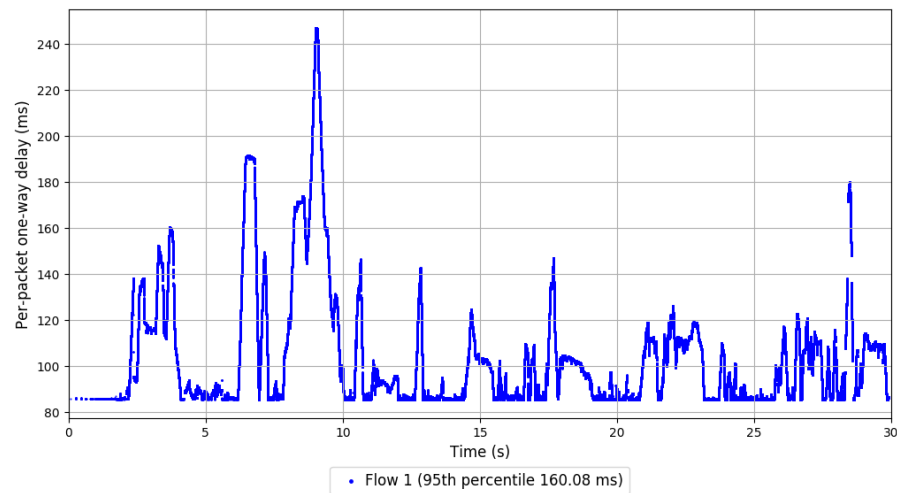
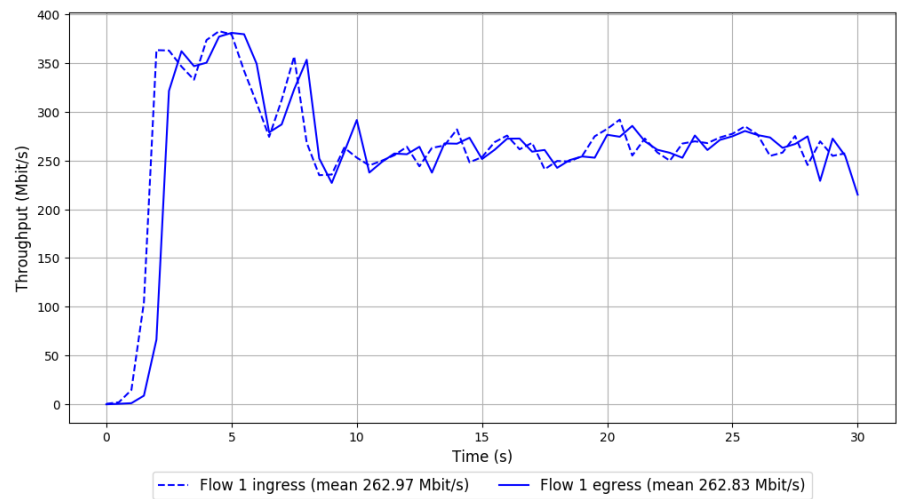
-- Flow 1:

Average throughput: 262.83 Mbit/s

95th percentile per-packet one-way delay: 160.080 ms

Loss rate: 0.63%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-10-02 19:50:22

End at: 2019-10-02 19:50:52

Local clock offset: -4.204 ms

Remote clock offset: 3.095 ms

Below is generated by plot.py at 2019-10-02 20:48:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.91 Mbit/s

95th percentile per-packet one-way delay: 129.568 ms

Loss rate: 0.71%

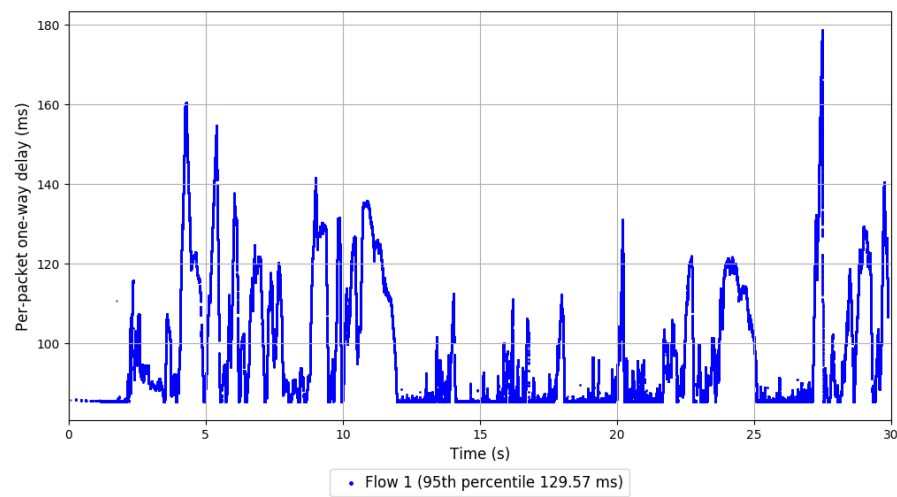
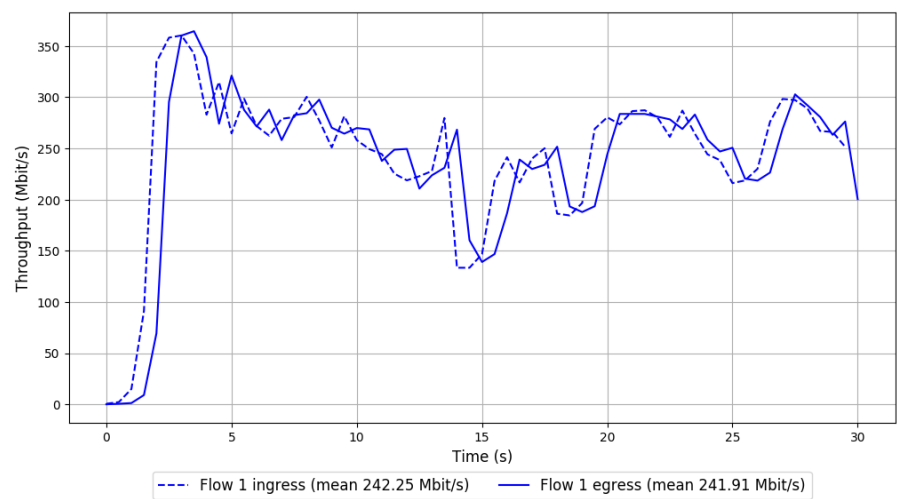
-- Flow 1:

Average throughput: 241.91 Mbit/s

95th percentile per-packet one-way delay: 129.568 ms

Loss rate: 0.71%

Run 5: Report of Copa — Data Link

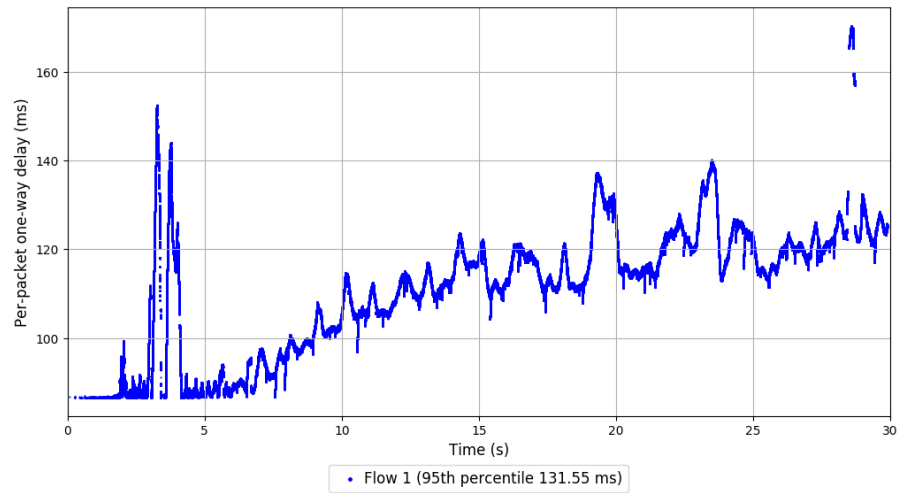
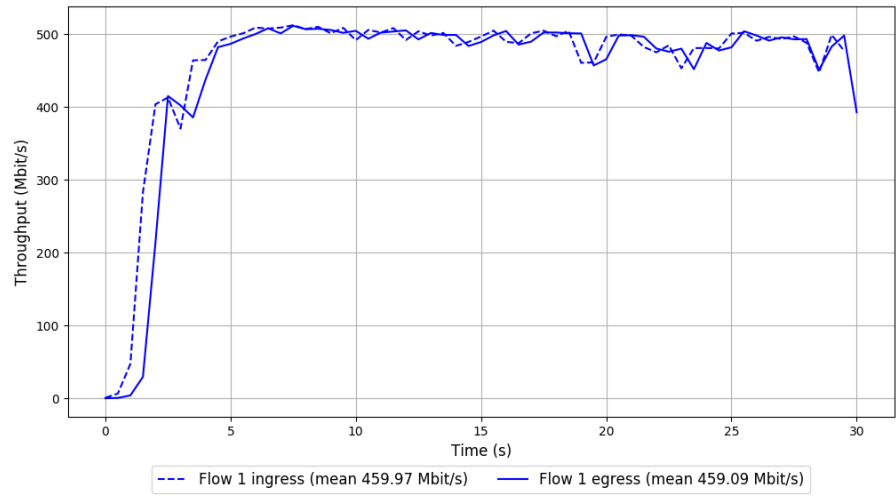


Run 1: Statistics of TCP Cubic

Start at: 2019-10-02 17:51:21
End at: 2019-10-02 17:51:51
Local clock offset: -28.395 ms
Remote clock offset: 13.999 ms

Below is generated by plot.py at 2019-10-02 20:48:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 459.09 Mbit/s
95th percentile per-packet one-way delay: 131.550 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 459.09 Mbit/s
95th percentile per-packet one-way delay: 131.550 ms
Loss rate: 0.76%

Run 1: Report of TCP Cubic — Data Link

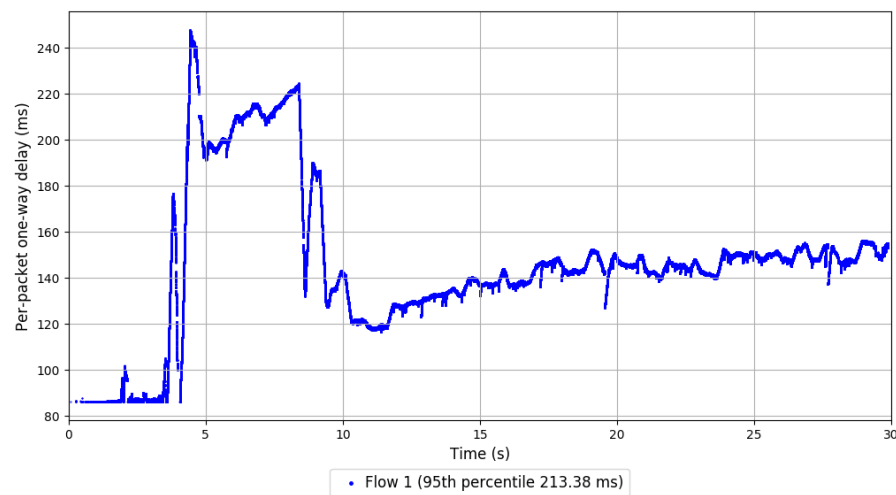
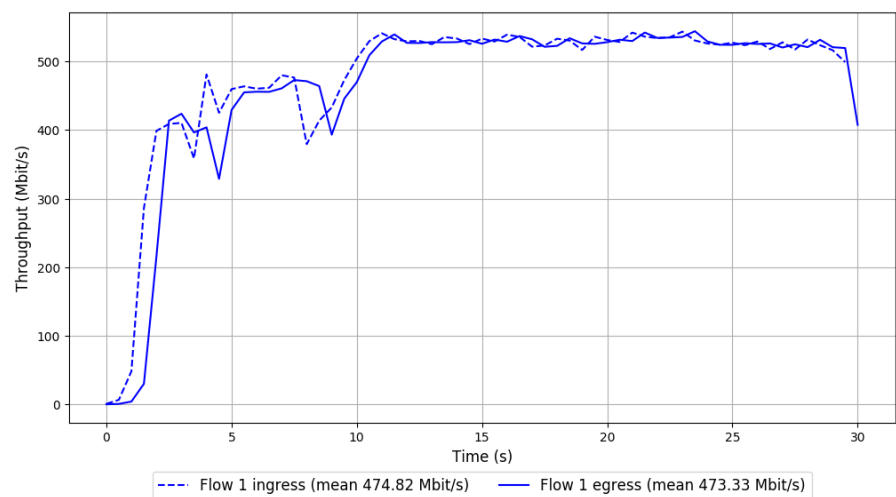


Run 2: Statistics of TCP Cubic

Start at: 2019-10-02 18:26:01
End at: 2019-10-02 18:26:31
Local clock offset: -21.112 ms
Remote clock offset: 26.851 ms

Below is generated by plot.py at 2019-10-02 20:48:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 473.33 Mbit/s
95th percentile per-packet one-way delay: 213.382 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 473.33 Mbit/s
95th percentile per-packet one-way delay: 213.382 ms
Loss rate: 0.88%

Run 2: Report of TCP Cubic — Data Link

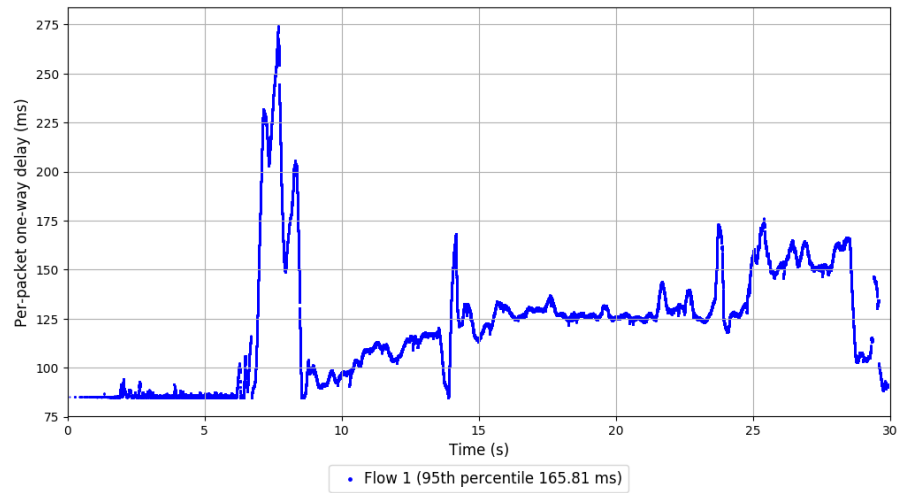
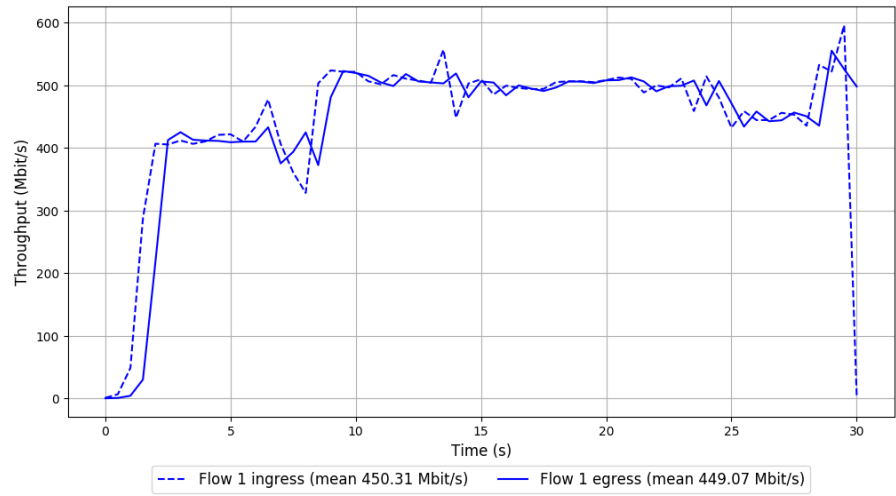


Run 3: Statistics of TCP Cubic

Start at: 2019-10-02 19:00:56
End at: 2019-10-02 19:01:26
Local clock offset: -20.962 ms
Remote clock offset: 14.495 ms

Below is generated by plot.py at 2019-10-02 20:48:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 449.07 Mbit/s
95th percentile per-packet one-way delay: 165.809 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 449.07 Mbit/s
95th percentile per-packet one-way delay: 165.809 ms
Loss rate: 0.85%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-10-02 19:35:38

End at: 2019-10-02 19:36:08

Local clock offset: -5.838 ms

Remote clock offset: 7.02 ms

Below is generated by plot.py at 2019-10-02 20:49:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 476.51 Mbit/s

95th percentile per-packet one-way delay: 134.737 ms

Loss rate: 0.60%

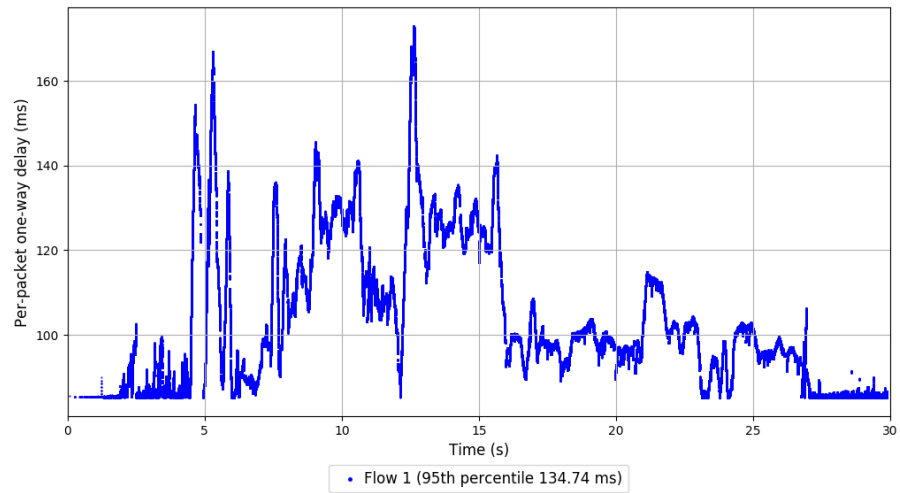
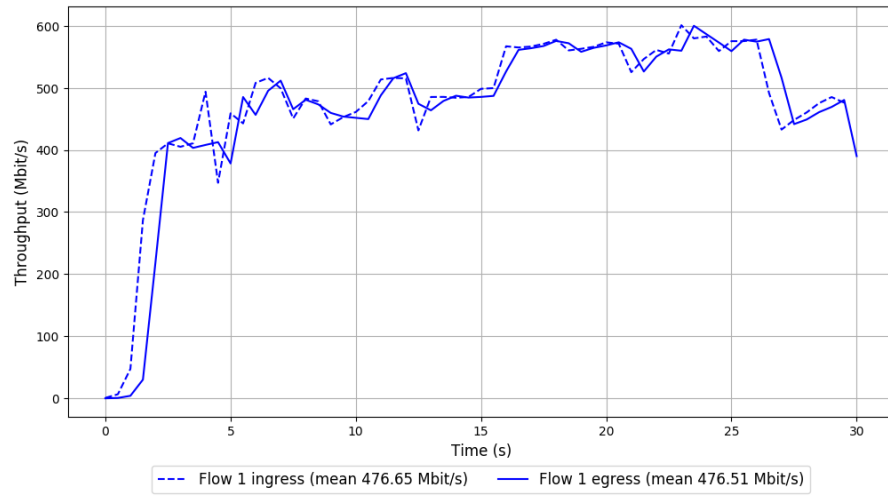
-- Flow 1:

Average throughput: 476.51 Mbit/s

95th percentile per-packet one-way delay: 134.737 ms

Loss rate: 0.60%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-10-02 20:10:22

End at: 2019-10-02 20:10:52

Local clock offset: -2.41 ms

Remote clock offset: 1.636 ms

Below is generated by plot.py at 2019-10-02 20:49:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 410.74 Mbit/s

95th percentile per-packet one-way delay: 197.005 ms

Loss rate: 0.95%

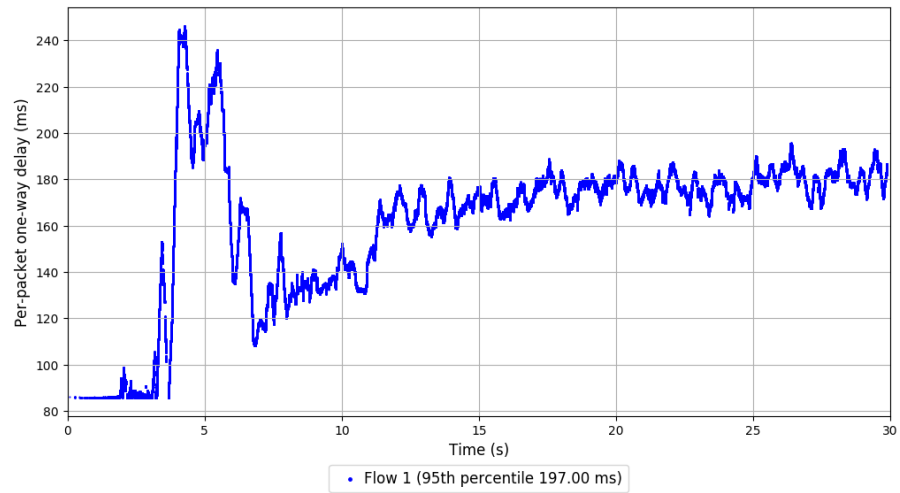
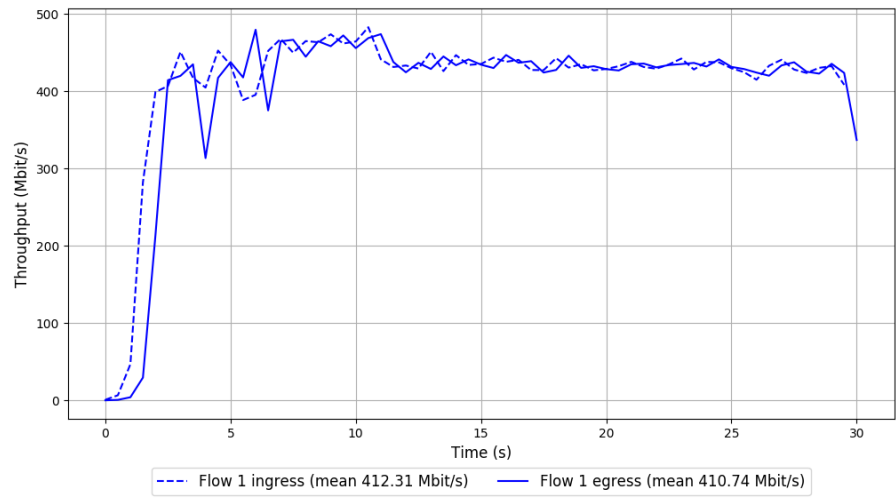
-- Flow 1:

Average throughput: 410.74 Mbit/s

95th percentile per-packet one-way delay: 197.005 ms

Loss rate: 0.95%

Run 5: Report of TCP Cubic — Data Link

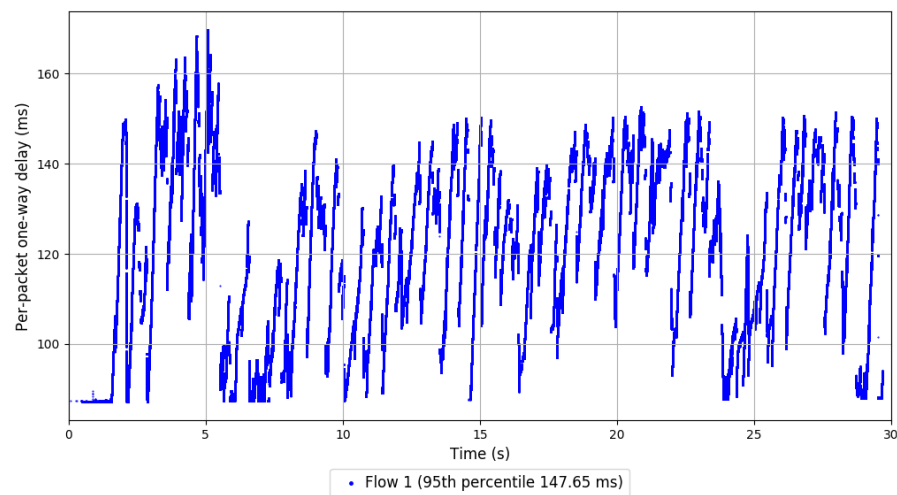
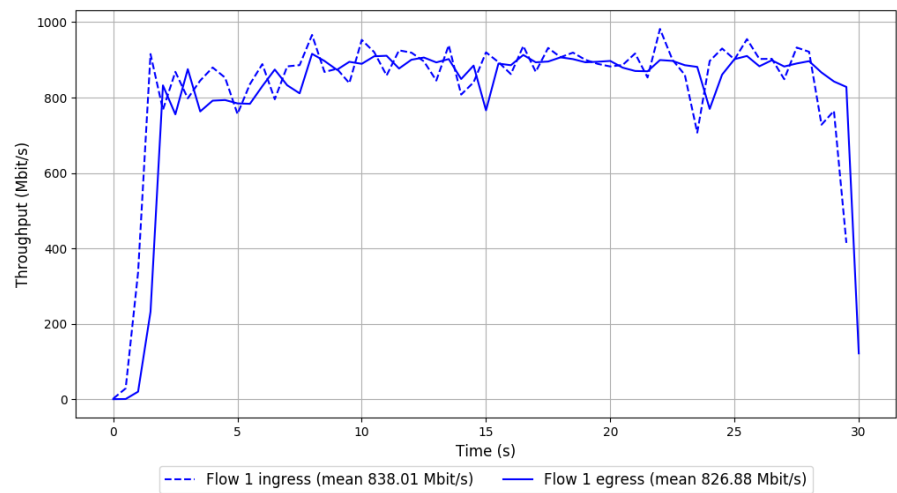


Run 1: Statistics of FillP

Start at: 2019-10-02 17:58:58
End at: 2019-10-02 17:59:28
Local clock offset: -44.645 ms
Remote clock offset: 21.057 ms

Below is generated by plot.py at 2019-10-02 20:59:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 826.88 Mbit/s
95th percentile per-packet one-way delay: 147.647 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 826.88 Mbit/s
95th percentile per-packet one-way delay: 147.647 ms
Loss rate: 1.90%

Run 1: Report of FillP — Data Link

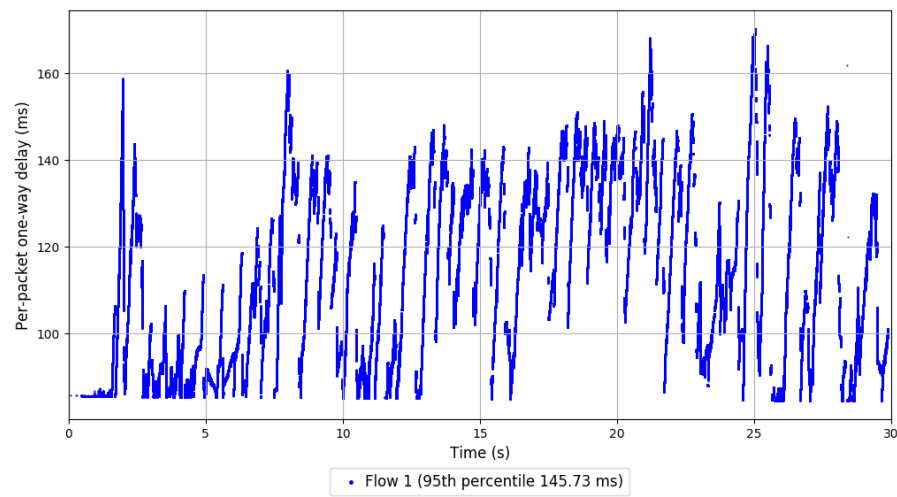
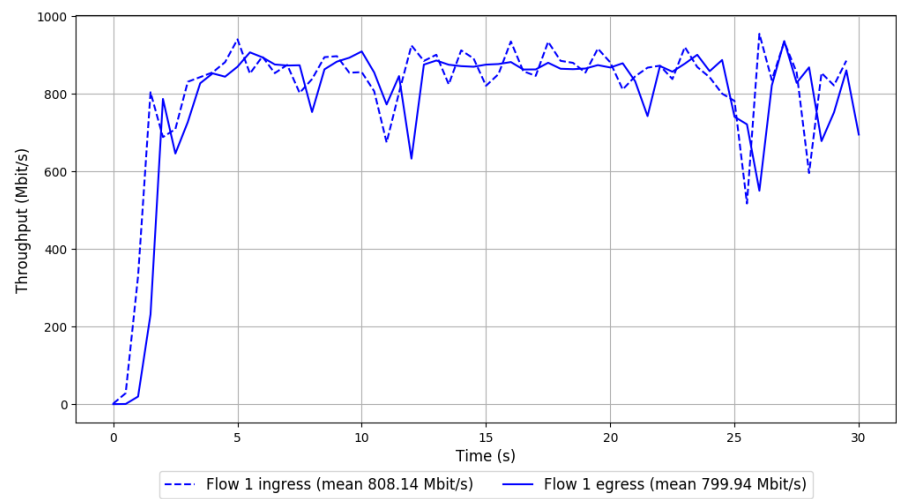


Run 2: Statistics of FillP

Start at: 2019-10-02 18:33:43
End at: 2019-10-02 18:34:13
Local clock offset: -22.215 ms
Remote clock offset: 29.405 ms

Below is generated by plot.py at 2019-10-02 21:09:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 799.94 Mbit/s
95th percentile per-packet one-way delay: 145.729 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 799.94 Mbit/s
95th percentile per-packet one-way delay: 145.729 ms
Loss rate: 1.59%

Run 2: Report of FillP — Data Link

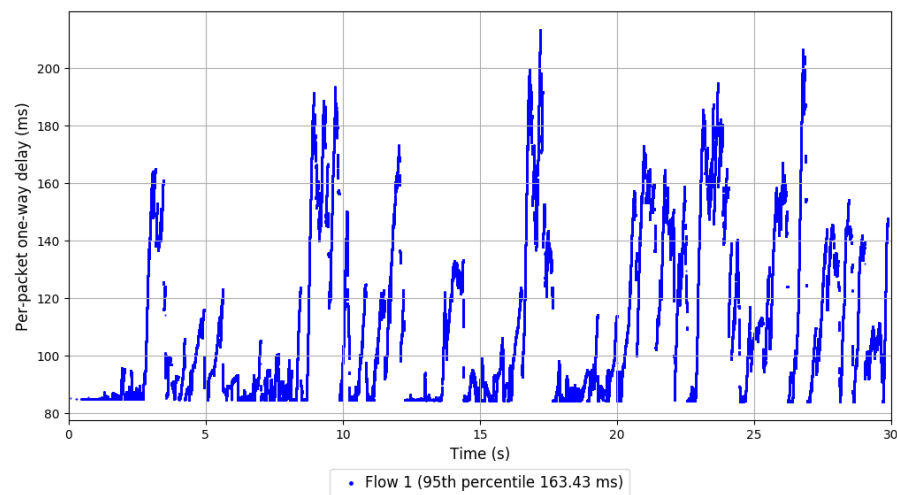
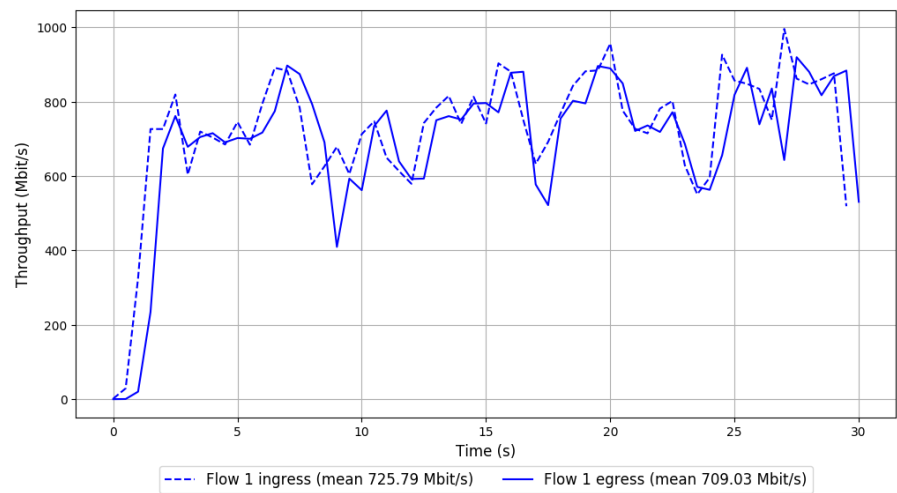


Run 3: Statistics of FillP

Start at: 2019-10-02 19:08:28
End at: 2019-10-02 19:08:58
Local clock offset: -12.294 ms
Remote clock offset: 14.127 ms

Below is generated by plot.py at 2019-10-02 21:09:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 709.03 Mbit/s
95th percentile per-packet one-way delay: 163.429 ms
Loss rate: 2.86%
-- Flow 1:
Average throughput: 709.03 Mbit/s
95th percentile per-packet one-way delay: 163.429 ms
Loss rate: 2.86%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-10-02 19:43:11

End at: 2019-10-02 19:43:41

Local clock offset: -4.327 ms

Remote clock offset: 6.203 ms

Below is generated by plot.py at 2019-10-02 21:09:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 798.15 Mbit/s

95th percentile per-packet one-way delay: 155.912 ms

Loss rate: 4.73%

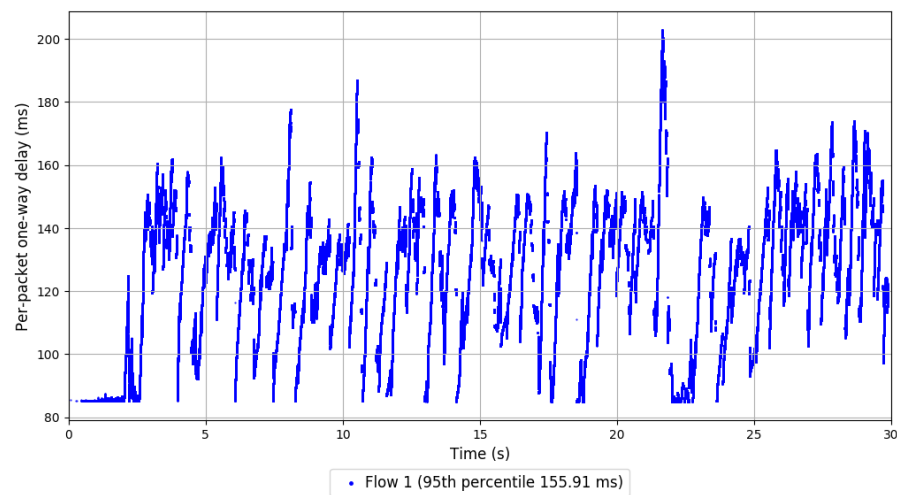
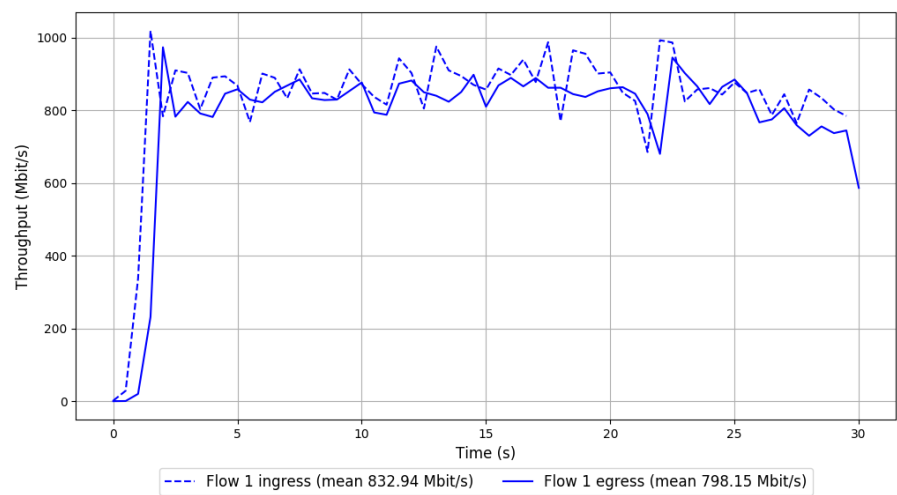
-- Flow 1:

Average throughput: 798.15 Mbit/s

95th percentile per-packet one-way delay: 155.912 ms

Loss rate: 4.73%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-10-02 20:17:55

End at: 2019-10-02 20:18:25

Local clock offset: -1.927 ms

Remote clock offset: 1.365 ms

Below is generated by plot.py at 2019-10-02 21:09:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 745.65 Mbit/s

95th percentile per-packet one-way delay: 161.454 ms

Loss rate: 4.69%

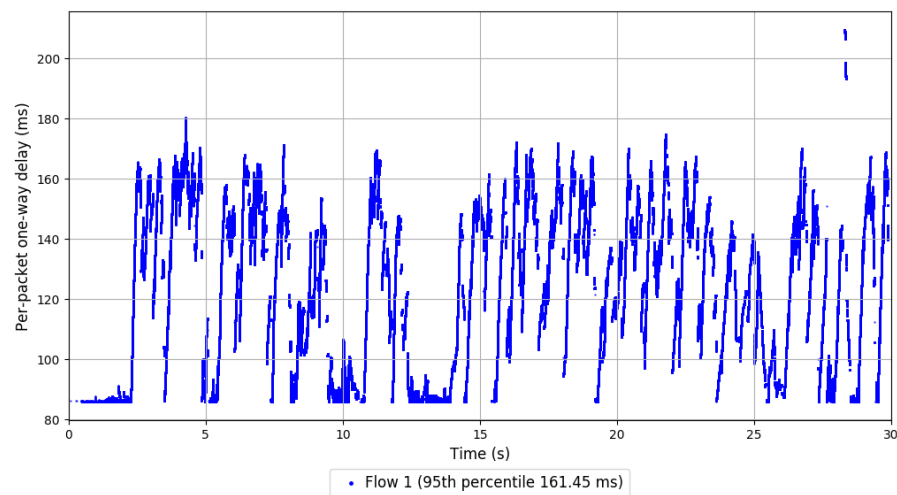
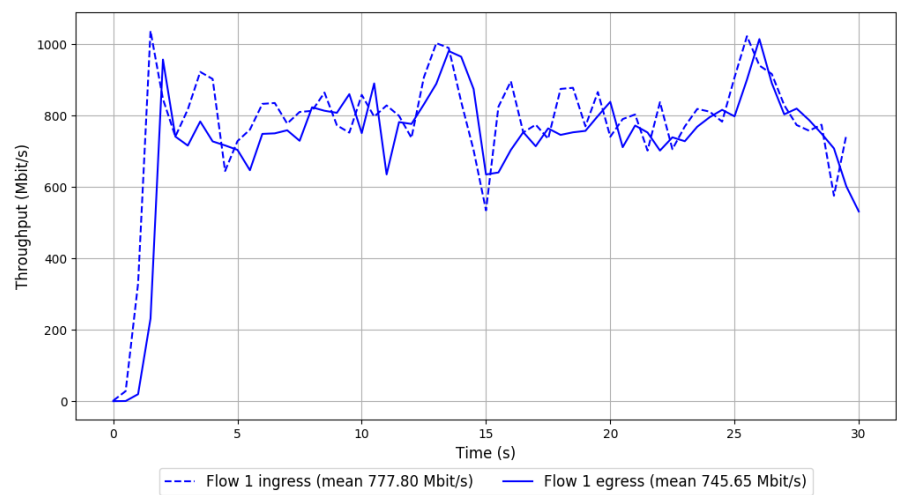
-- Flow 1:

Average throughput: 745.65 Mbit/s

95th percentile per-packet one-way delay: 161.454 ms

Loss rate: 4.69%

Run 5: Report of FillP — Data Link

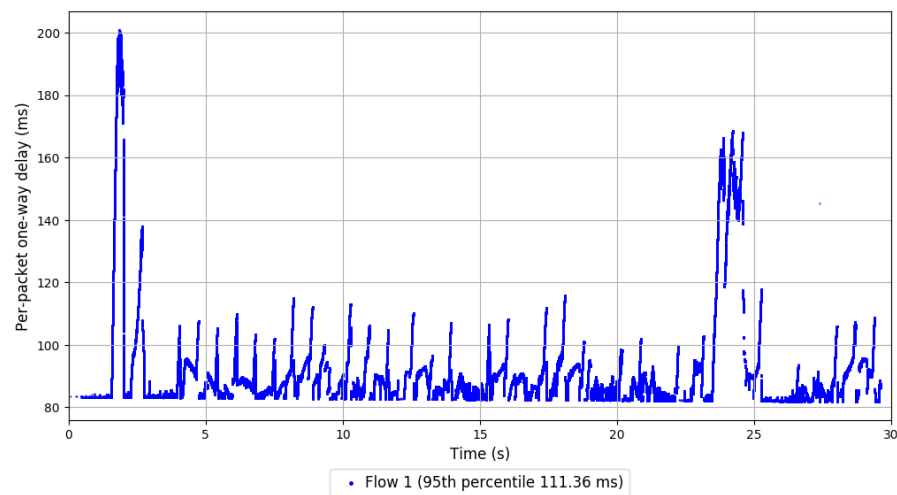
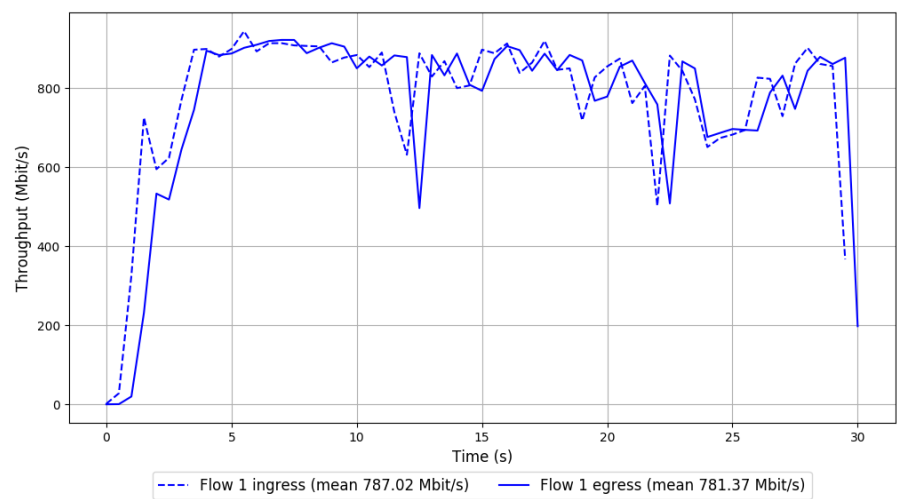


Run 1: Statistics of FillP-Sheep

Start at: 2019-10-02 17:46:31
End at: 2019-10-02 17:47:01
Local clock offset: -36.179 ms
Remote clock offset: 10.864 ms

Below is generated by plot.py at 2019-10-02 21:09:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 781.37 Mbit/s
95th percentile per-packet one-way delay: 111.357 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 781.37 Mbit/s
95th percentile per-packet one-way delay: 111.357 ms
Loss rate: 1.30%

Run 1: Report of FillP-Sheep — Data Link

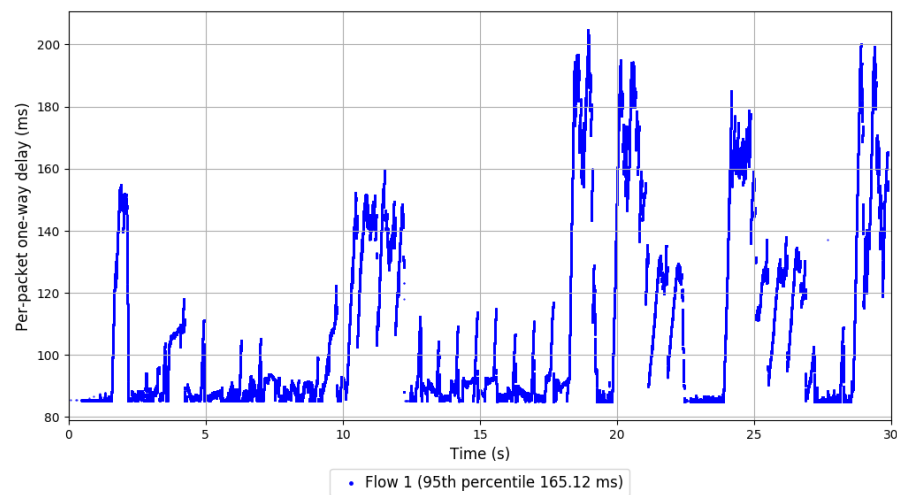
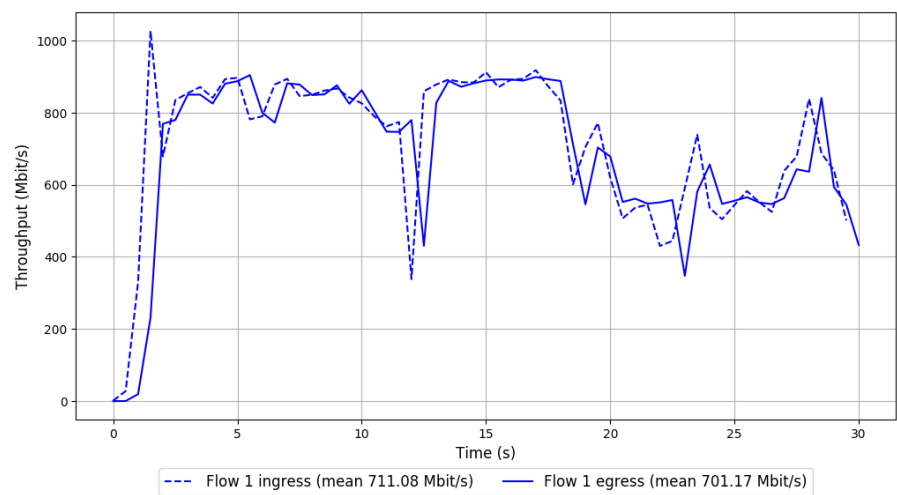


Run 2: Statistics of FillP-Sheep

Start at: 2019-10-02 18:21:15
End at: 2019-10-02 18:21:45
Local clock offset: -26.628 ms
Remote clock offset: 23.002 ms

Below is generated by plot.py at 2019-10-02 21:09:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 701.17 Mbit/s
95th percentile per-packet one-way delay: 165.125 ms
Loss rate: 1.96%
-- Flow 1:
Average throughput: 701.17 Mbit/s
95th percentile per-packet one-way delay: 165.125 ms
Loss rate: 1.96%

Run 2: Report of FillP-Sheep — Data Link

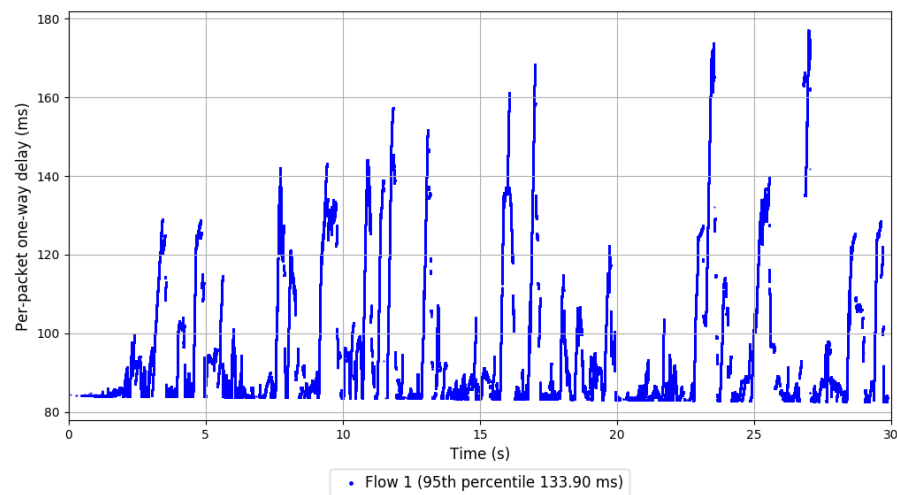
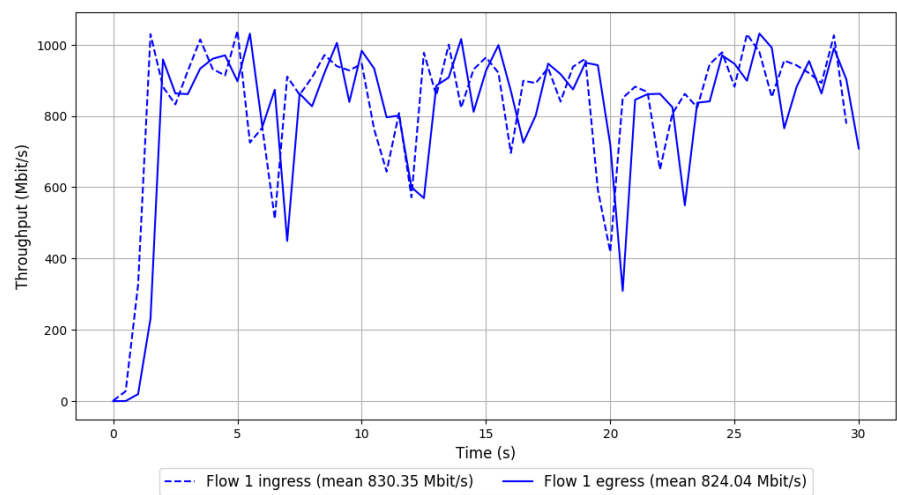


Run 3: Statistics of FillP-Sheep

Start at: 2019-10-02 18:56:09
End at: 2019-10-02 18:56:39
Local clock offset: -34.12 ms
Remote clock offset: 13.116 ms

Below is generated by plot.py at 2019-10-02 21:10:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 824.04 Mbit/s
95th percentile per-packet one-way delay: 133.895 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 824.04 Mbit/s
95th percentile per-packet one-way delay: 133.895 ms
Loss rate: 1.34%

Run 3: Report of FillP-Sheep — Data Link

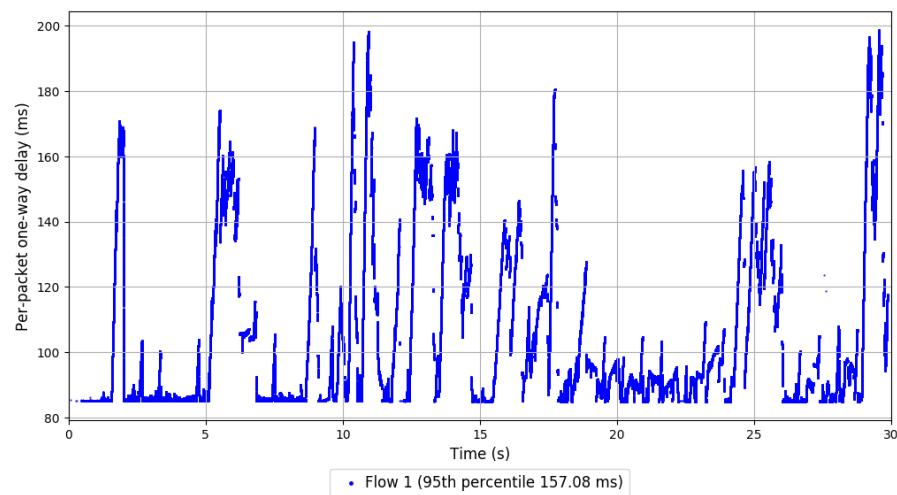
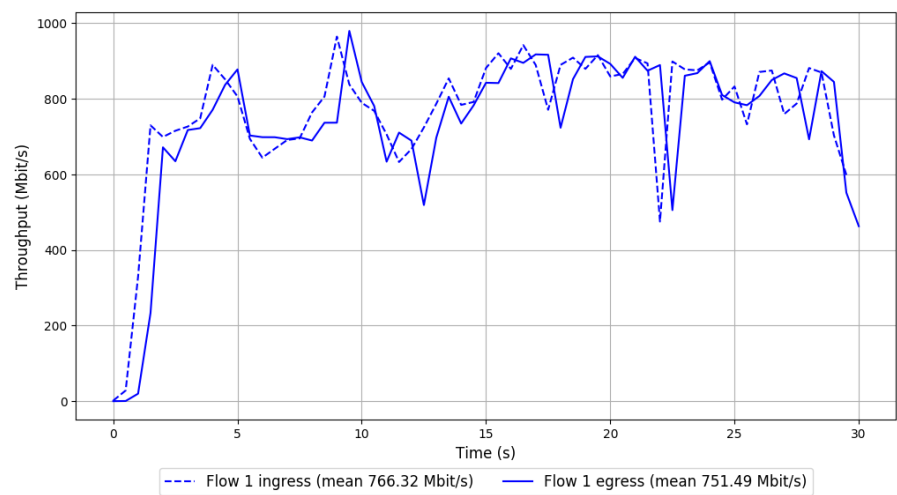


Run 4: Statistics of FillP-Sheep

Start at: 2019-10-02 19:30:48
End at: 2019-10-02 19:31:18
Local clock offset: -8.702 ms
Remote clock offset: 6.333 ms

Below is generated by plot.py at 2019-10-02 21:20:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 751.49 Mbit/s
95th percentile per-packet one-way delay: 157.080 ms
Loss rate: 2.50%
-- Flow 1:
Average throughput: 751.49 Mbit/s
95th percentile per-packet one-way delay: 157.080 ms
Loss rate: 2.50%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-10-02 20:05:37

End at: 2019-10-02 20:06:07

Local clock offset: -3.664 ms

Remote clock offset: 1.633 ms

Below is generated by plot.py at 2019-10-02 21:29:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 873.67 Mbit/s

95th percentile per-packet one-way delay: 133.131 ms

Loss rate: 1.01%

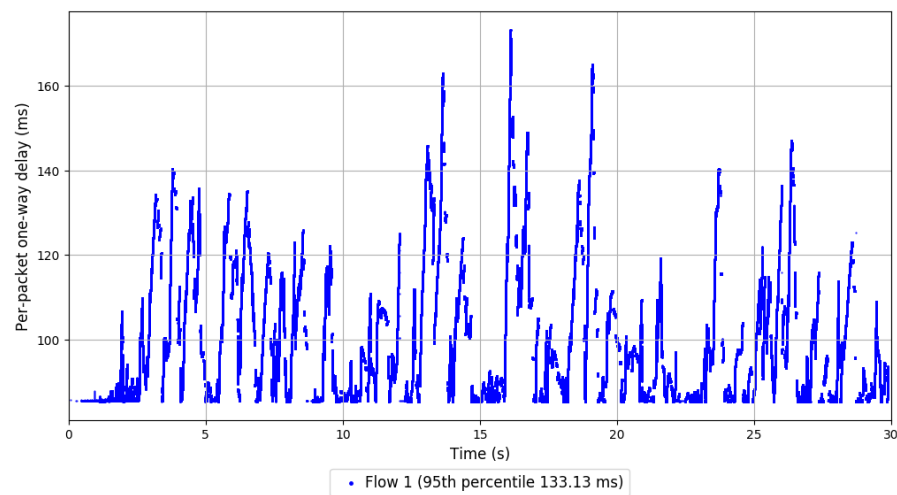
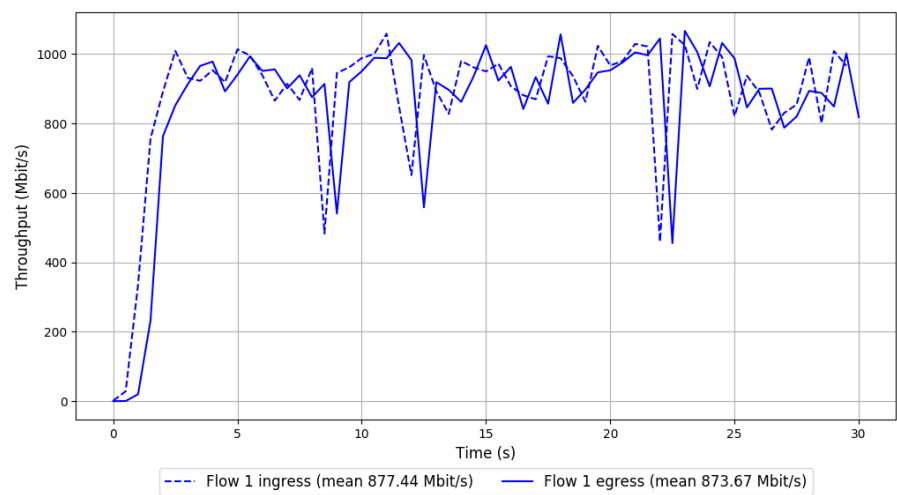
-- Flow 1:

Average throughput: 873.67 Mbit/s

95th percentile per-packet one-way delay: 133.131 ms

Loss rate: 1.01%

Run 5: Report of FillP-Sheep — Data Link

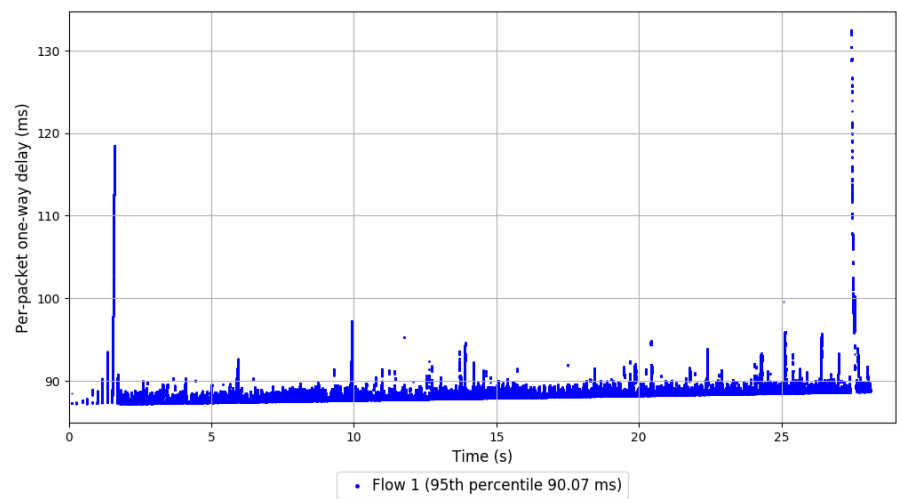
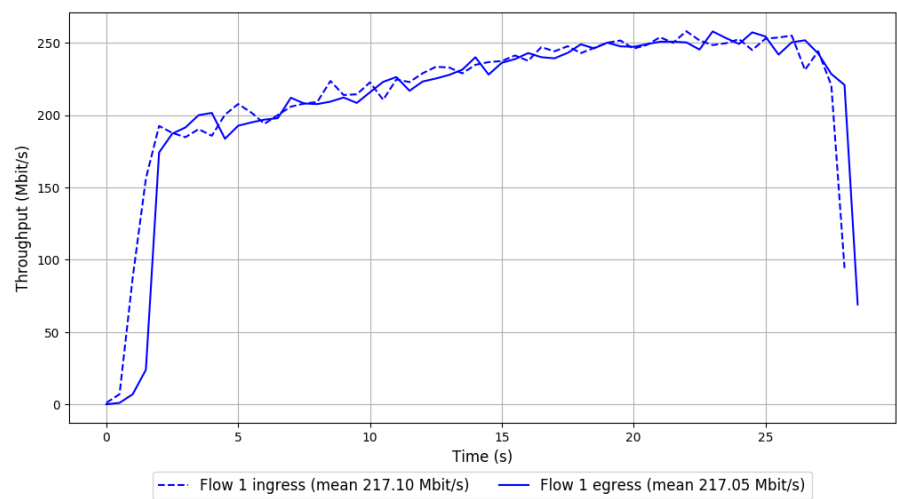


Run 1: Statistics of Indigo

Start at: 2019-10-02 17:54:27
End at: 2019-10-02 17:54:57
Local clock offset: -33.398 ms
Remote clock offset: 17.272 ms

Below is generated by plot.py at 2019-10-02 21:29:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 217.05 Mbit/s
95th percentile per-packet one-way delay: 90.066 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 217.05 Mbit/s
95th percentile per-packet one-way delay: 90.066 ms
Loss rate: 0.64%

Run 1: Report of Indigo — Data Link

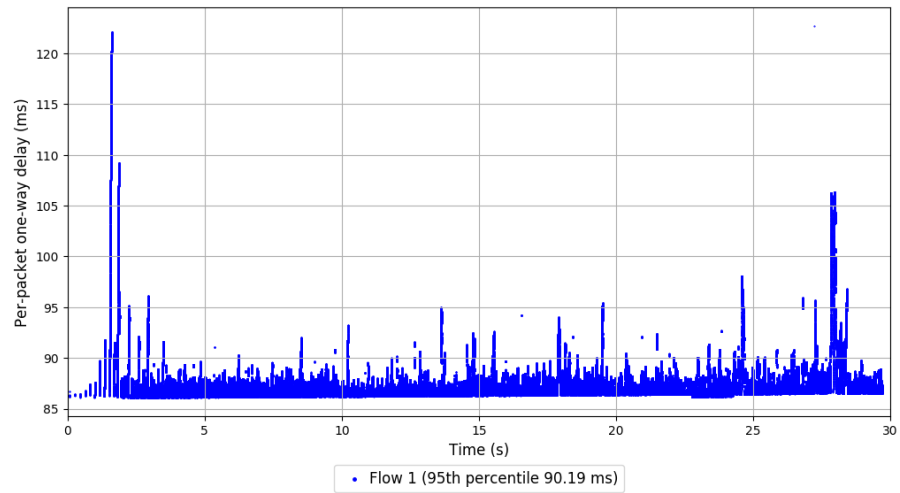
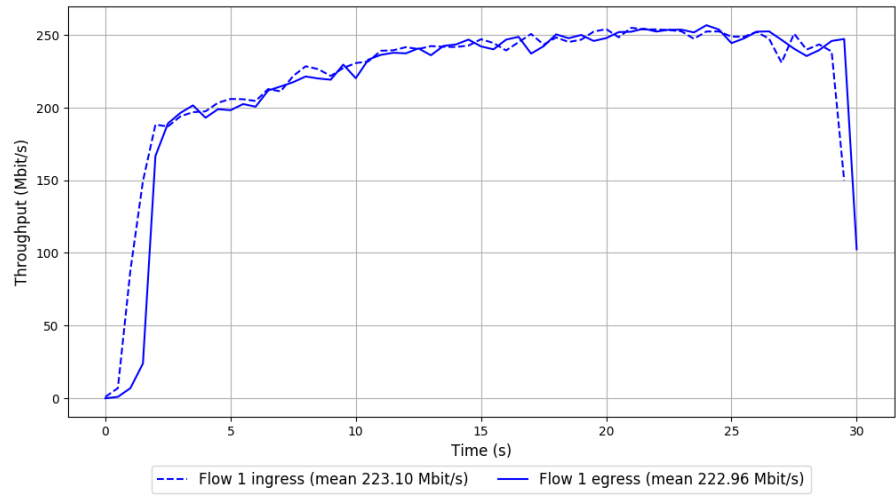


Run 2: Statistics of Indigo

Start at: 2019-10-02 18:29:06
End at: 2019-10-02 18:29:36
Local clock offset: -21.234 ms
Remote clock offset: 29.563 ms

Below is generated by plot.py at 2019-10-02 21:29:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 222.96 Mbit/s
95th percentile per-packet one-way delay: 90.193 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 222.96 Mbit/s
95th percentile per-packet one-way delay: 90.193 ms
Loss rate: 0.64%

Run 2: Report of Indigo — Data Link

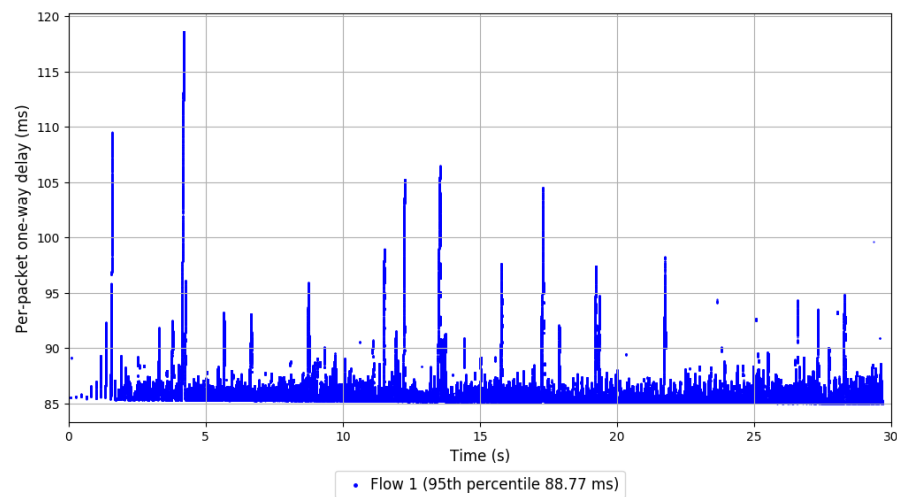
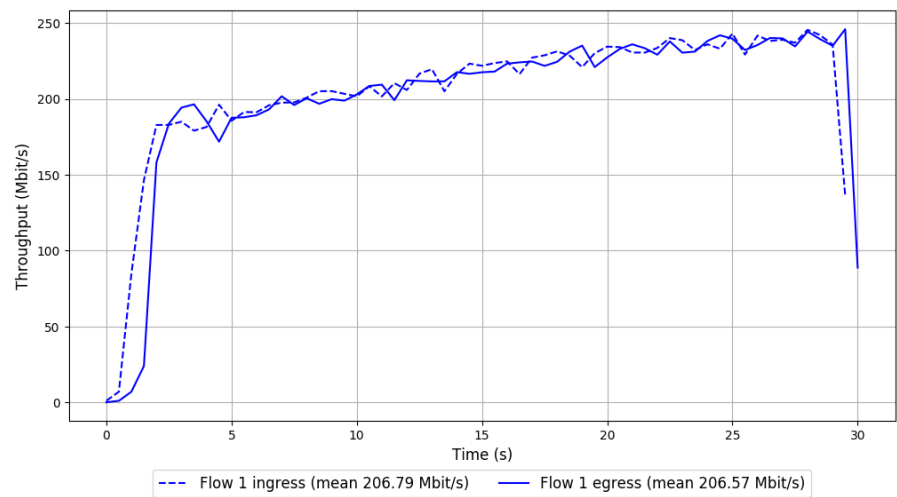


Run 3: Statistics of Indigo

Start at: 2019-10-02 19:03:59
End at: 2019-10-02 19:04:29
Local clock offset: -16.135 ms
Remote clock offset: 15.492 ms

Below is generated by plot.py at 2019-10-02 21:29:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 206.57 Mbit/s
95th percentile per-packet one-way delay: 88.767 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 206.57 Mbit/s
95th percentile per-packet one-way delay: 88.767 ms
Loss rate: 0.69%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-10-02 19:38:44

End at: 2019-10-02 19:39:14

Local clock offset: -4.156 ms

Remote clock offset: 7.512 ms

Below is generated by plot.py at 2019-10-02 21:29:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.65 Mbit/s

95th percentile per-packet one-way delay: 90.999 ms

Loss rate: 0.68%

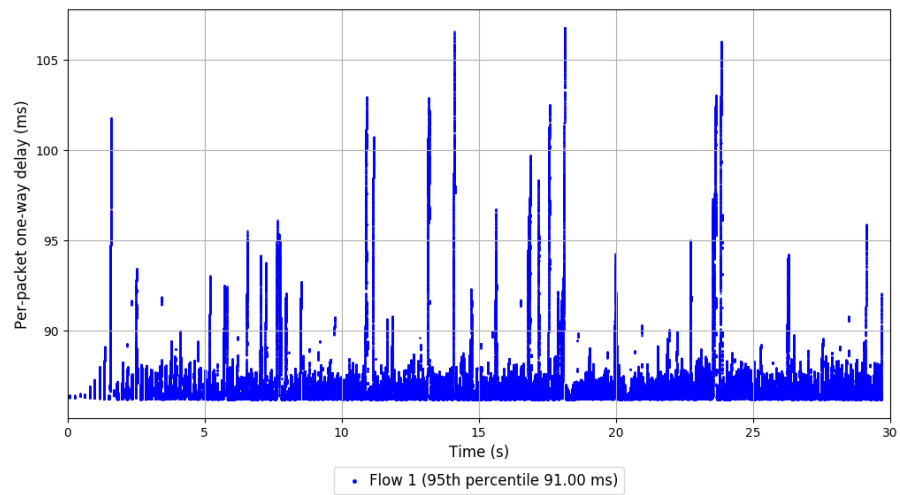
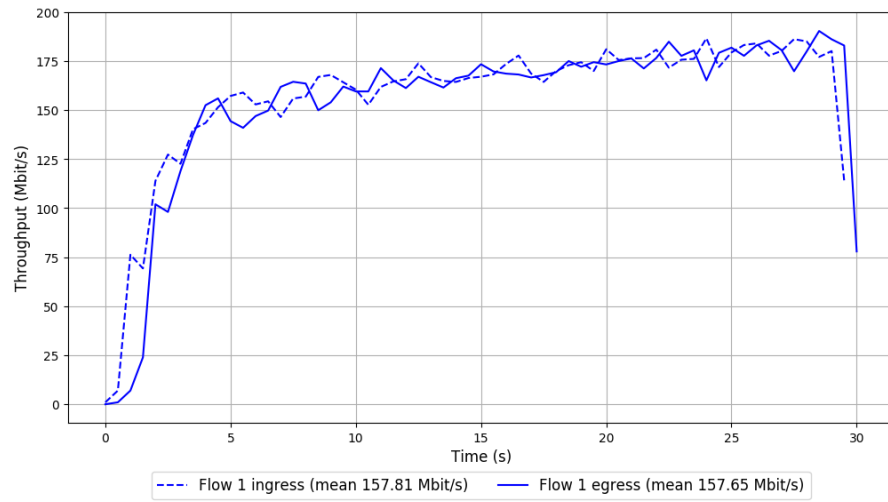
-- Flow 1:

Average throughput: 157.65 Mbit/s

95th percentile per-packet one-way delay: 90.999 ms

Loss rate: 0.68%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-10-02 20:13:28

End at: 2019-10-02 20:13:58

Local clock offset: -2.432 ms

Remote clock offset: 1.751 ms

Below is generated by plot.py at 2019-10-02 21:29:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.66 Mbit/s

95th percentile per-packet one-way delay: 92.750 ms

Loss rate: 0.66%

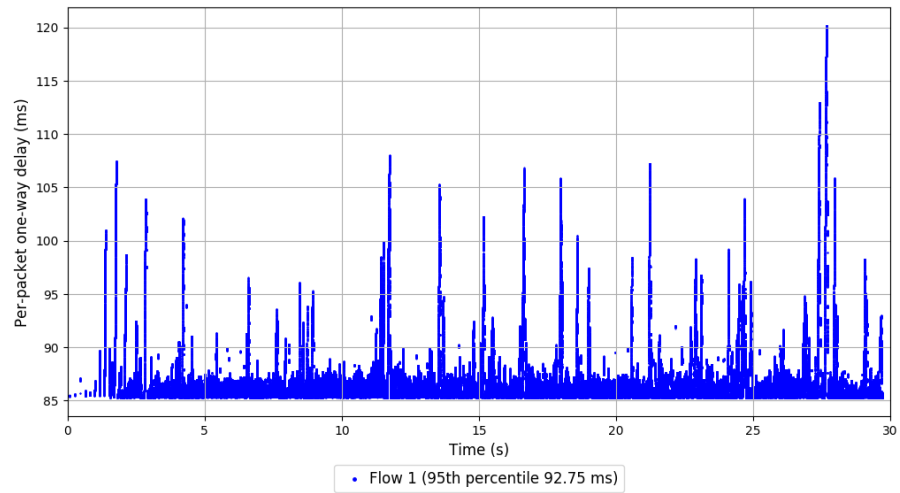
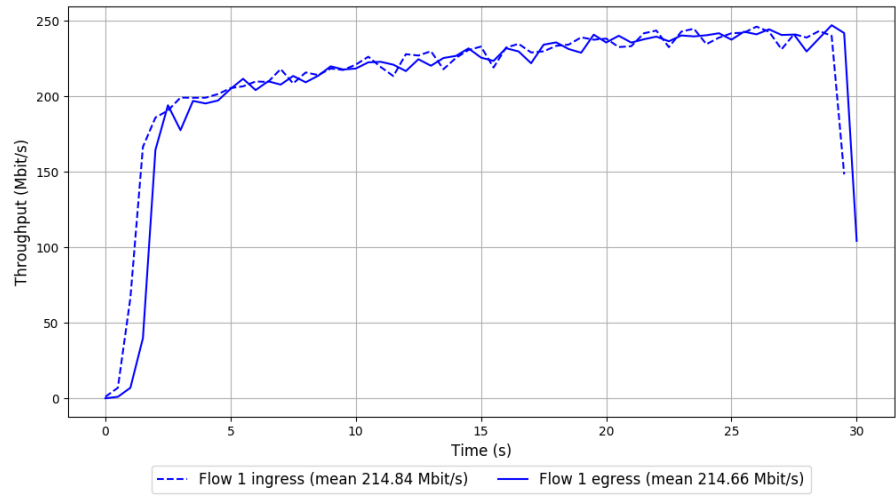
-- Flow 1:

Average throughput: 214.66 Mbit/s

95th percentile per-packet one-way delay: 92.750 ms

Loss rate: 0.66%

Run 5: Report of Indigo — Data Link

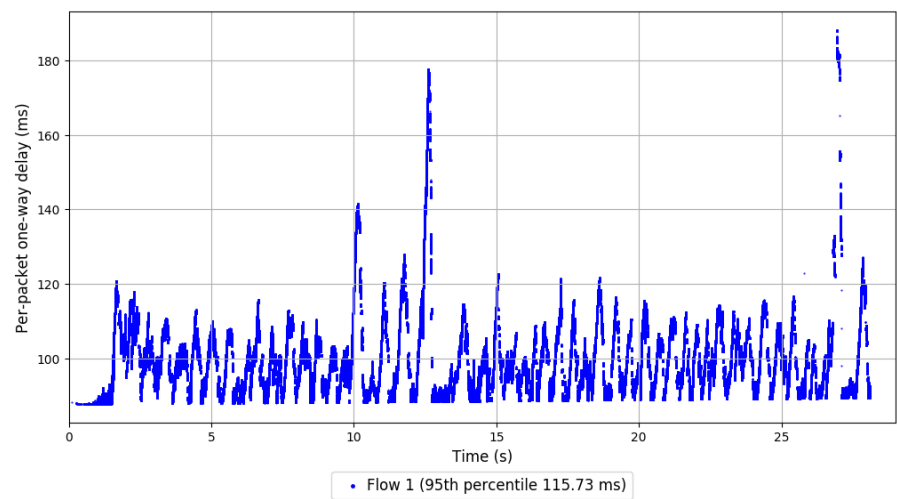
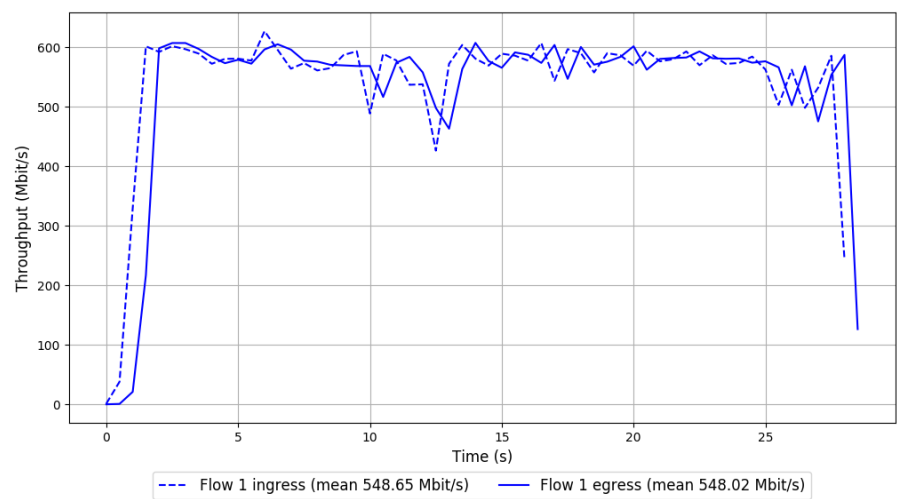


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-10-02 17:55:55
End at: 2019-10-02 17:56:25
Local clock offset: -36.259 ms
Remote clock offset: 18.739 ms

Below is generated by plot.py at 2019-10-02 21:29:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 548.02 Mbit/s
95th percentile per-packet one-way delay: 115.730 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 548.02 Mbit/s
95th percentile per-packet one-way delay: 115.730 ms
Loss rate: 0.71%

Run 1: Report of Indigo-MusesC3 — Data Link

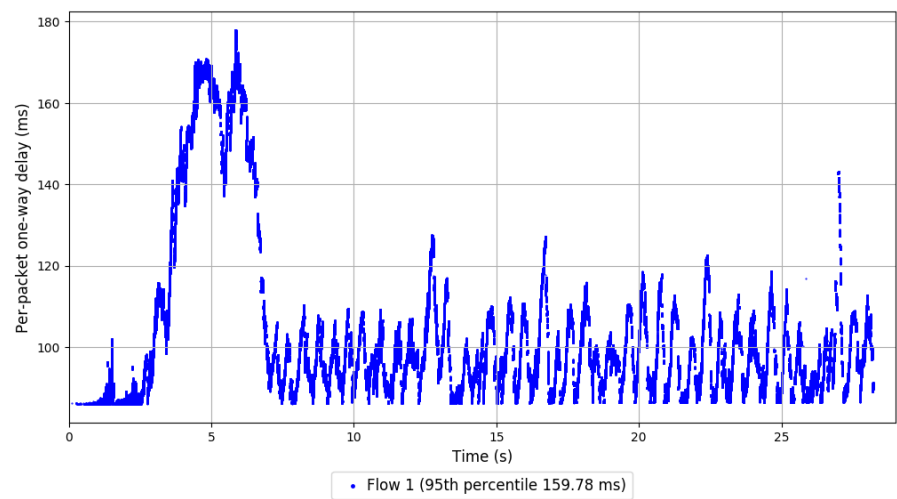
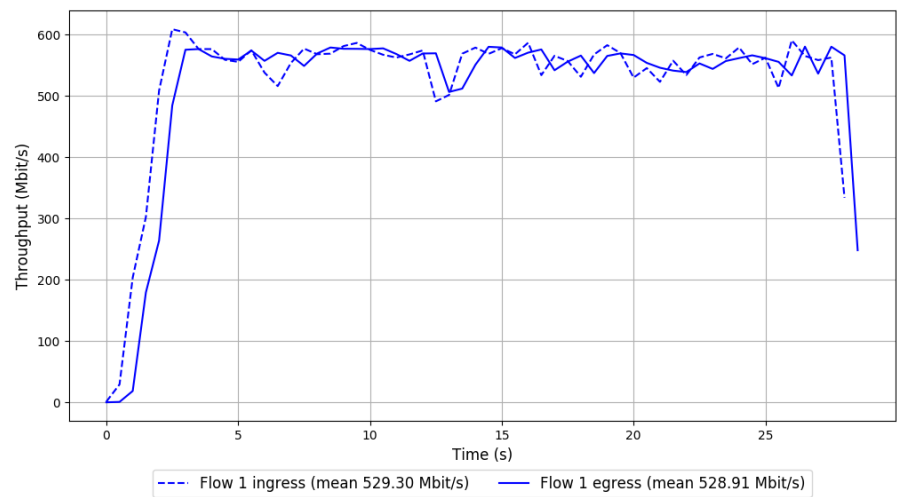


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-10-02 18:30:36
End at: 2019-10-02 18:31:06
Local clock offset: -21.273 ms
Remote clock offset: 30.92 ms

Below is generated by plot.py at 2019-10-02 21:29:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 528.91 Mbit/s
95th percentile per-packet one-way delay: 159.781 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 528.91 Mbit/s
95th percentile per-packet one-way delay: 159.781 ms
Loss rate: 0.67%

Run 2: Report of Indigo-MusesC3 — Data Link

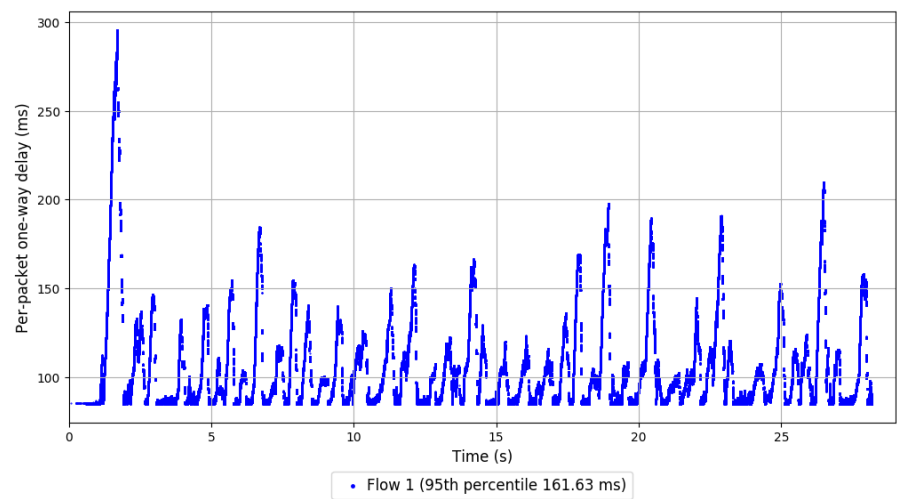
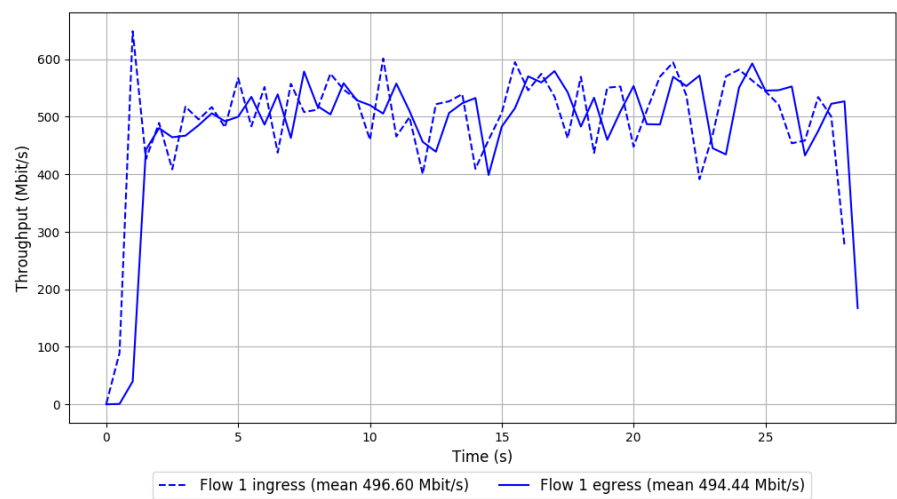


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-10-02 19:05:28
End at: 2019-10-02 19:05:58
Local clock offset: -14.678 ms
Remote clock offset: 16.189 ms

Below is generated by plot.py at 2019-10-02 21:29:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 494.44 Mbit/s
95th percentile per-packet one-way delay: 161.626 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 494.44 Mbit/s
95th percentile per-packet one-way delay: 161.626 ms
Loss rate: 1.05%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-10-02 19:40:09

End at: 2019-10-02 19:40:39

Local clock offset: -4.304 ms

Remote clock offset: 7.744 ms

Below is generated by plot.py at 2019-10-02 21:29:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 516.50 Mbit/s

95th percentile per-packet one-way delay: 149.921 ms

Loss rate: 0.47%

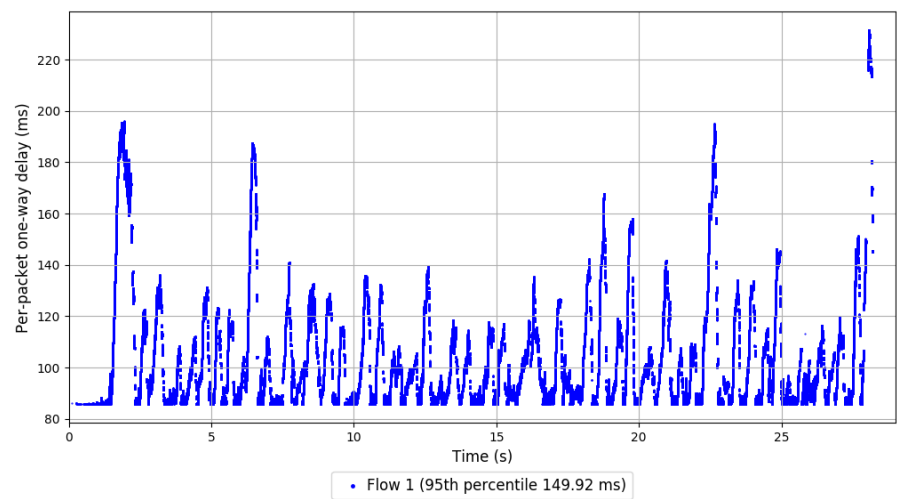
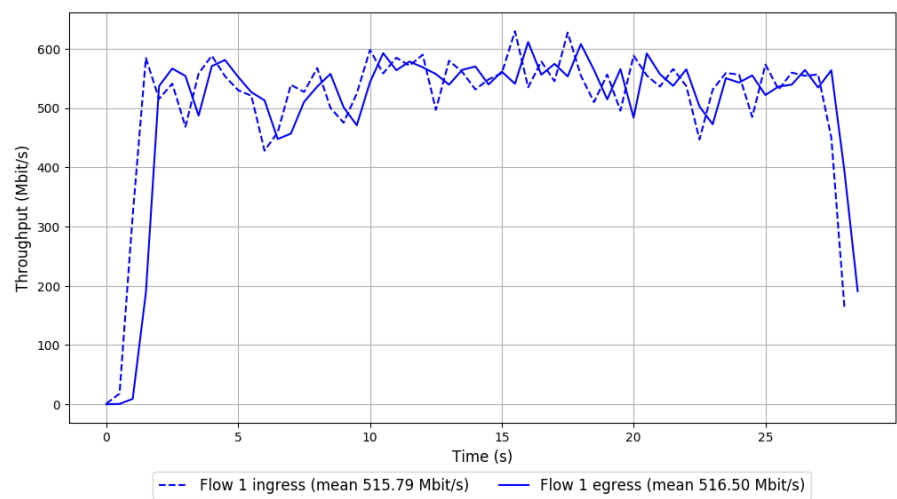
-- Flow 1:

Average throughput: 516.50 Mbit/s

95th percentile per-packet one-way delay: 149.921 ms

Loss rate: 0.47%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-10-02 20:14:58

End at: 2019-10-02 20:15:28

Local clock offset: -1.895 ms

Remote clock offset: 1.78 ms

Below is generated by plot.py at 2019-10-02 21:29:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 464.82 Mbit/s

95th percentile per-packet one-way delay: 150.461 ms

Loss rate: 0.51%

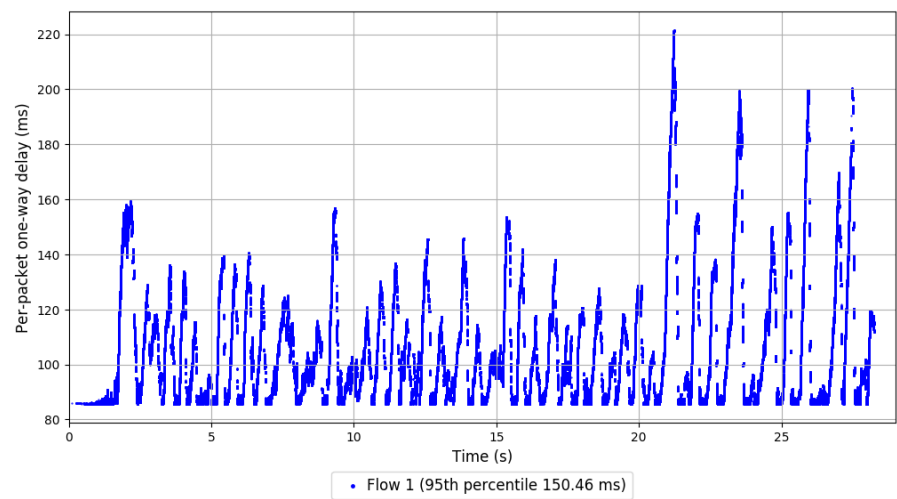
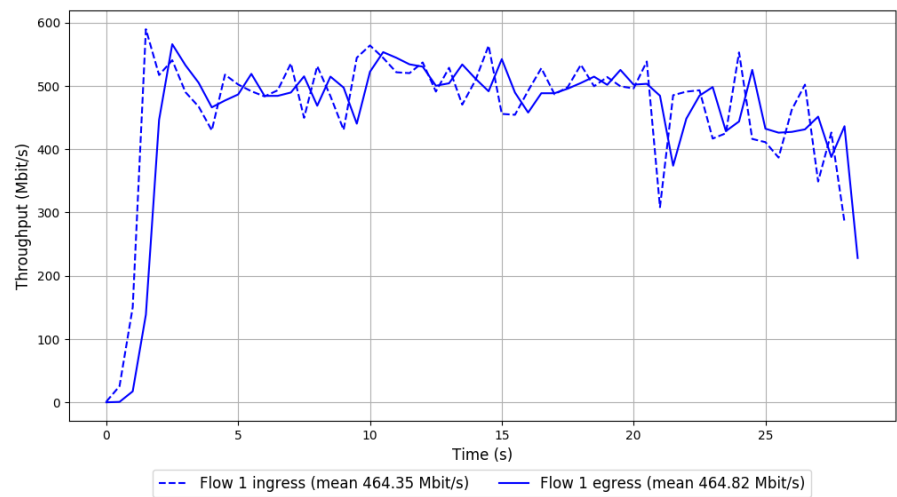
-- Flow 1:

Average throughput: 464.82 Mbit/s

95th percentile per-packet one-way delay: 150.461 ms

Loss rate: 0.51%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

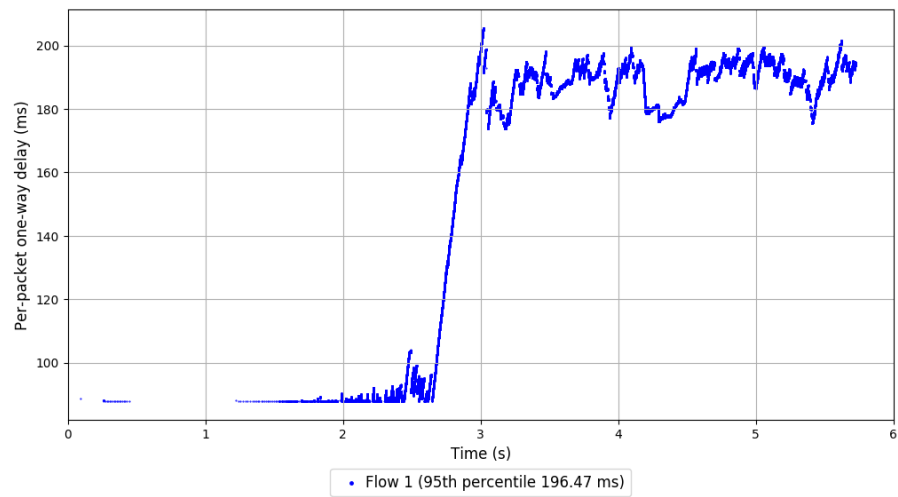
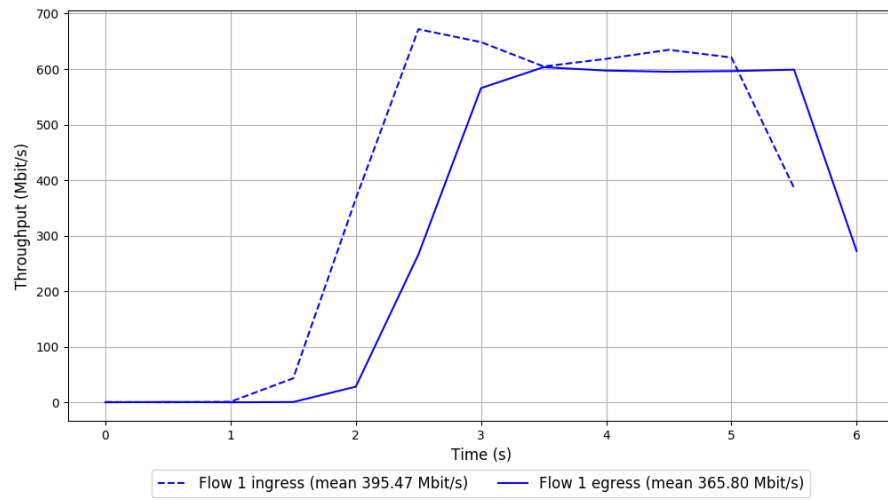
Start at: 2019-10-02 17:39:41

End at: 2019-10-02 17:40:11

Local clock offset: -18.959 ms

Remote clock offset: 11.852 ms

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-10-02 18:14:10

End at: 2019-10-02 18:14:40

Local clock offset: -22.65 ms

Remote clock offset: 18.37 ms

Below is generated by plot.py at 2019-10-02 21:31:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 488.54 Mbit/s

95th percentile per-packet one-way delay: 154.482 ms

Loss rate: 0.83%

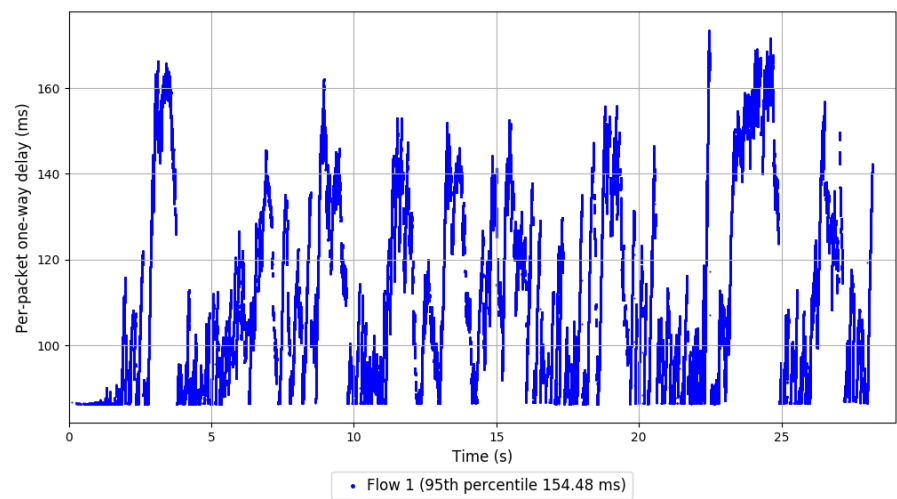
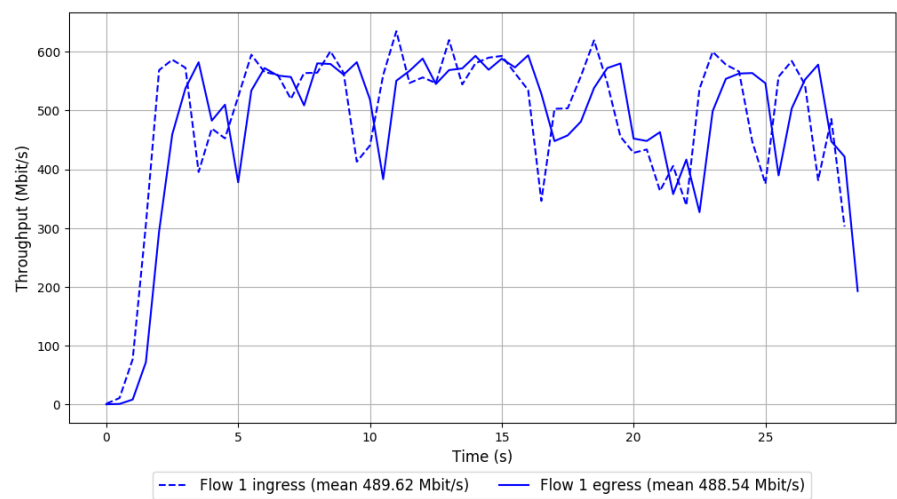
-- Flow 1:

Average throughput: 488.54 Mbit/s

95th percentile per-packet one-way delay: 154.482 ms

Loss rate: 0.83%

Run 2: Report of Indigo-MusesC5 — Data Link

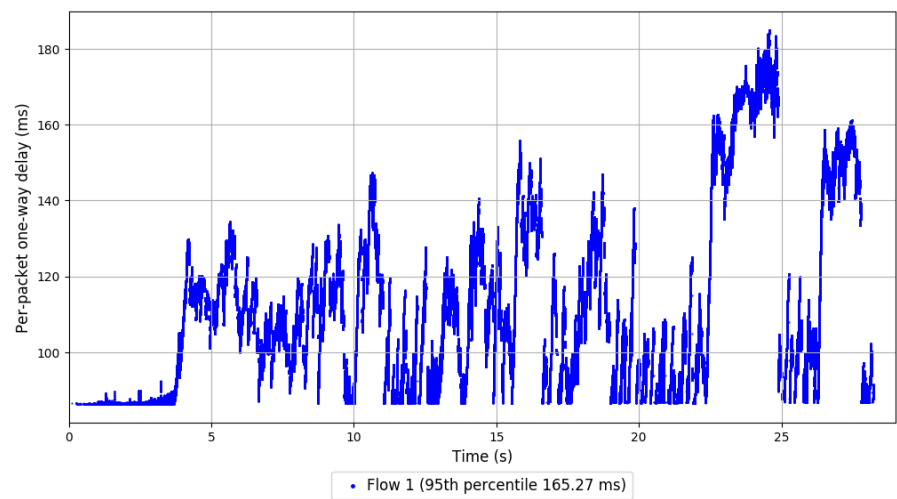
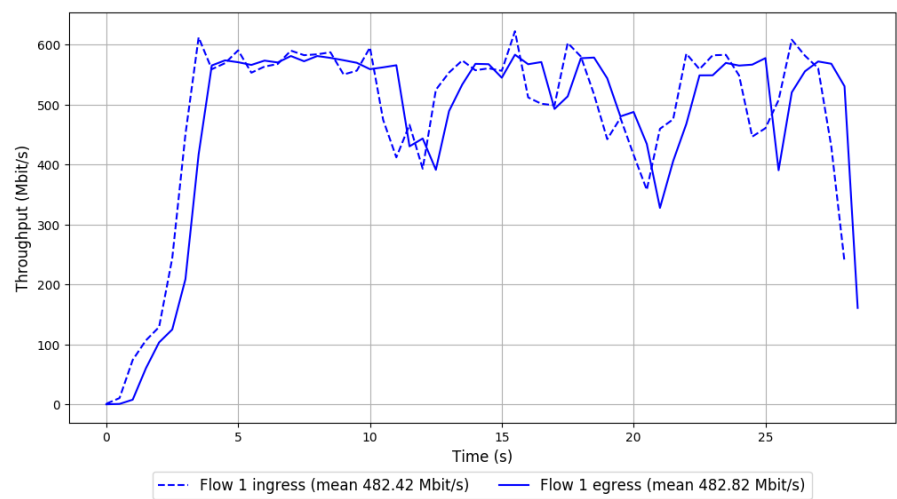


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-10-02 18:49:07
End at: 2019-10-02 18:49:37
Local clock offset: -36.026 ms
Remote clock offset: 12.494 ms

Below is generated by plot.py at 2019-10-02 21:31:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 482.82 Mbit/s
95th percentile per-packet one-way delay: 165.271 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 482.82 Mbit/s
95th percentile per-packet one-way delay: 165.271 ms
Loss rate: 0.53%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-10-02 19:23:42

End at: 2019-10-02 19:24:12

Local clock offset: -9.453 ms

Remote clock offset: 6.047 ms

Below is generated by plot.py at 2019-10-02 21:32:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 479.34 Mbit/s

95th percentile per-packet one-way delay: 169.226 ms

Loss rate: 0.69%

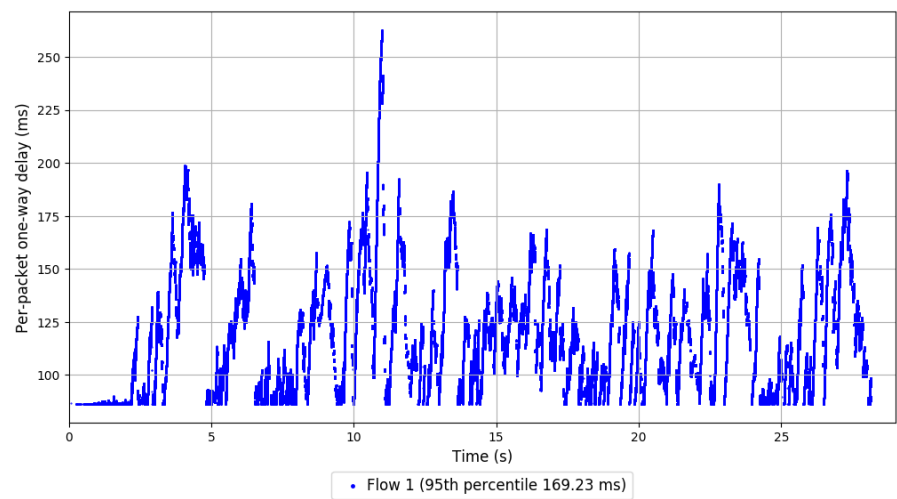
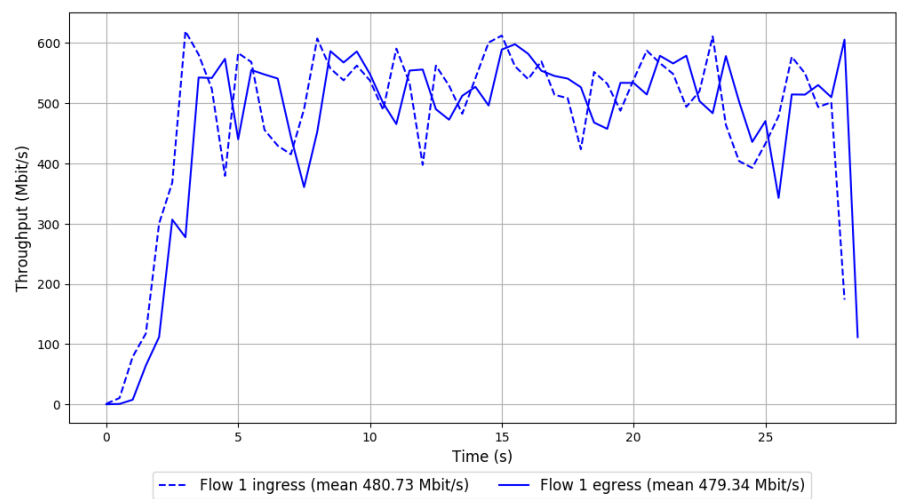
-- Flow 1:

Average throughput: 479.34 Mbit/s

95th percentile per-packet one-way delay: 169.226 ms

Loss rate: 0.69%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-10-02 19:58:24

End at: 2019-10-02 19:58:54

Local clock offset: -4.376 ms

Remote clock offset: 1.807 ms

Below is generated by plot.py at 2019-10-02 21:37:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 495.08 Mbit/s

95th percentile per-packet one-way delay: 179.274 ms

Loss rate: 1.09%

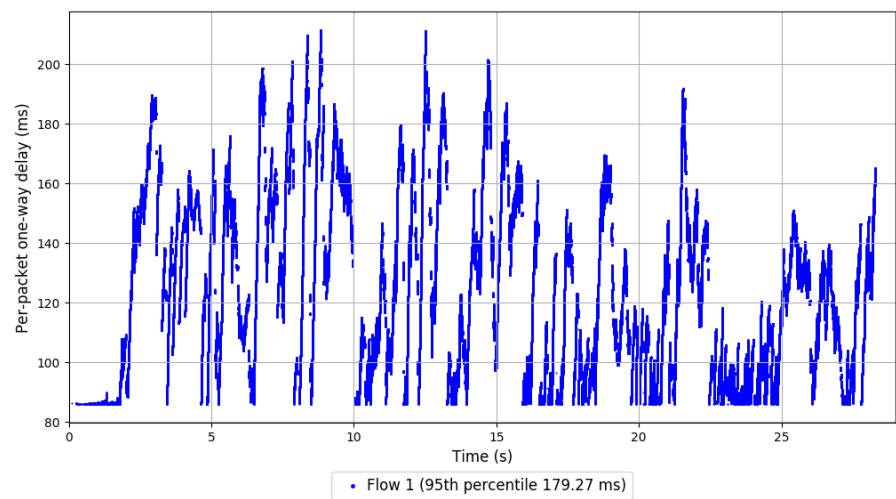
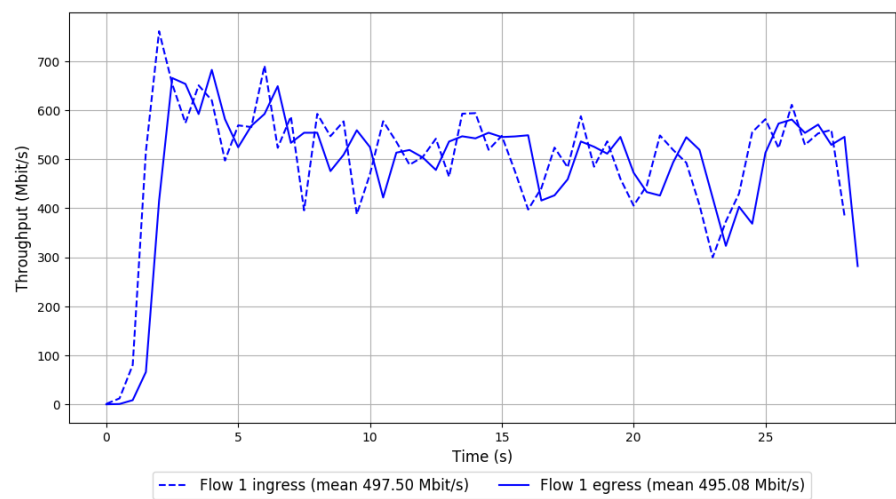
-- Flow 1:

Average throughput: 495.08 Mbit/s

95th percentile per-packet one-way delay: 179.274 ms

Loss rate: 1.09%

Run 5: Report of Indigo-MusesC5 — Data Link

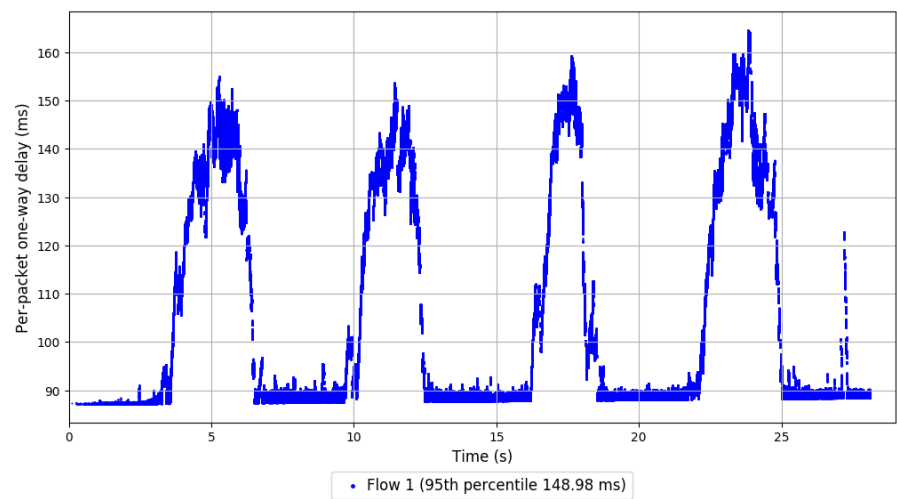
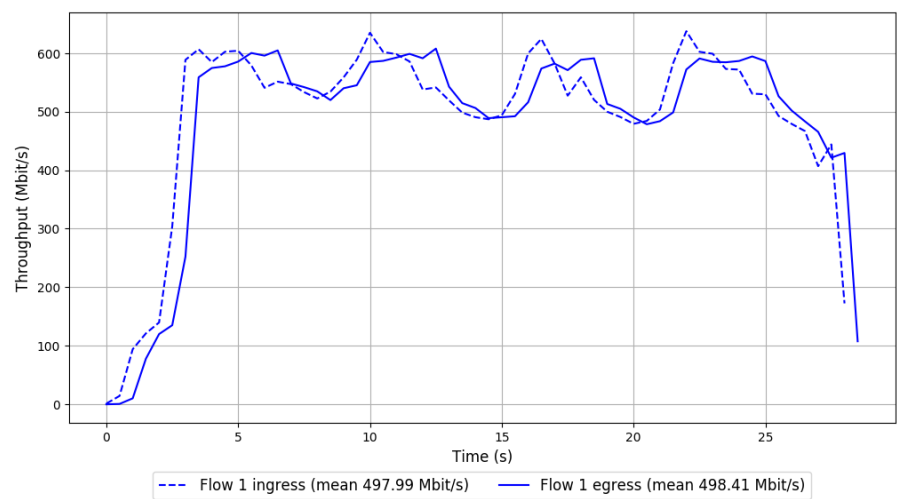


Run 1: Statistics of Indigo-MusesD

Start at: 2019-10-02 17:52:54
End at: 2019-10-02 17:53:24
Local clock offset: -30.214 ms
Remote clock offset: 15.423 ms

Below is generated by plot.py at 2019-10-02 21:37:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 498.41 Mbit/s
95th percentile per-packet one-way delay: 148.982 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 498.41 Mbit/s
95th percentile per-packet one-way delay: 148.982 ms
Loss rate: 0.53%

Run 1: Report of Indigo-MusesD — Data Link

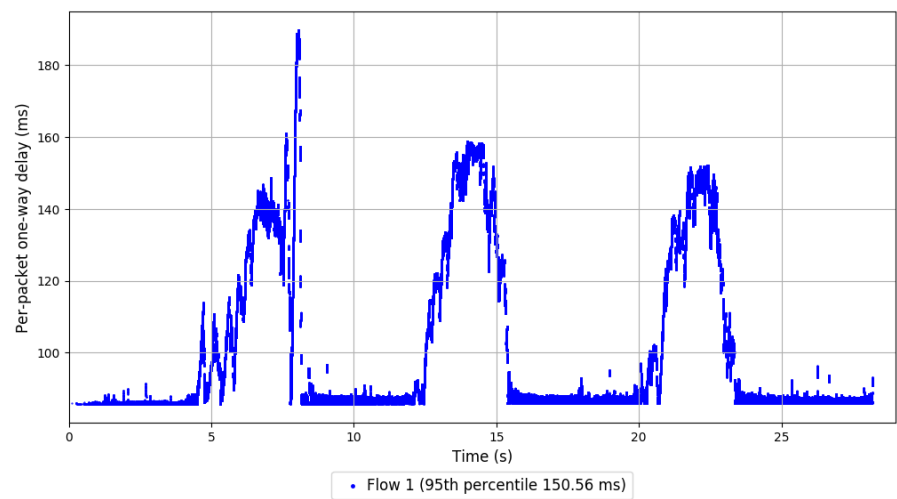
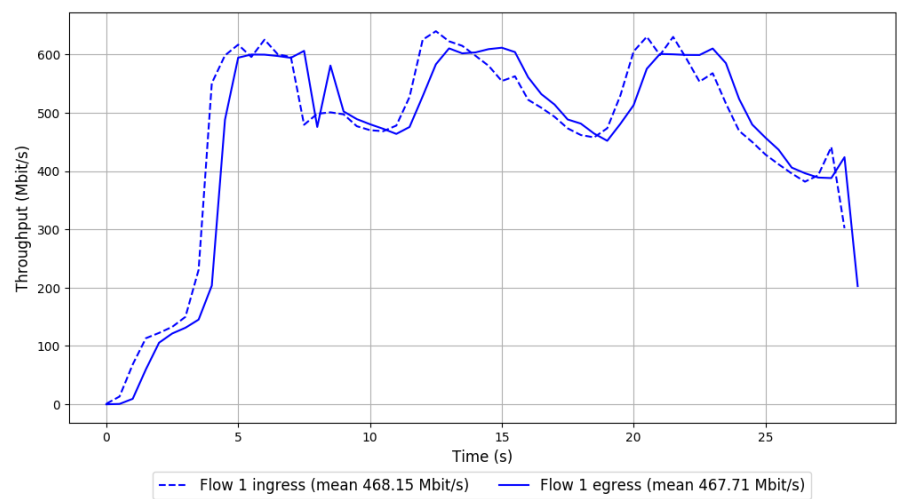


Run 2: Statistics of Indigo-MusesD

Start at: 2019-10-02 18:27:34
End at: 2019-10-02 18:28:04
Local clock offset: -21.231 ms
Remote clock offset: 28.272 ms

Below is generated by plot.py at 2019-10-02 21:37:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 467.71 Mbit/s
95th percentile per-packet one-way delay: 150.557 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 467.71 Mbit/s
95th percentile per-packet one-way delay: 150.557 ms
Loss rate: 0.70%

Run 2: Report of Indigo-MusesD — Data Link

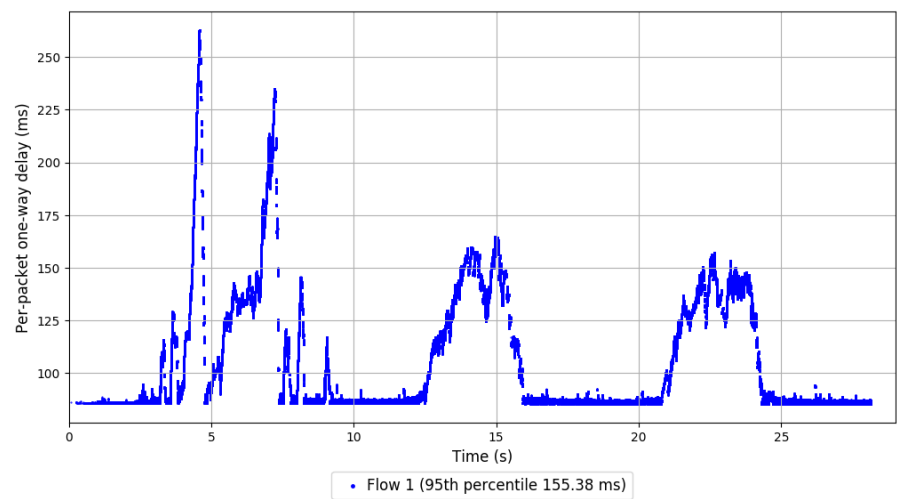
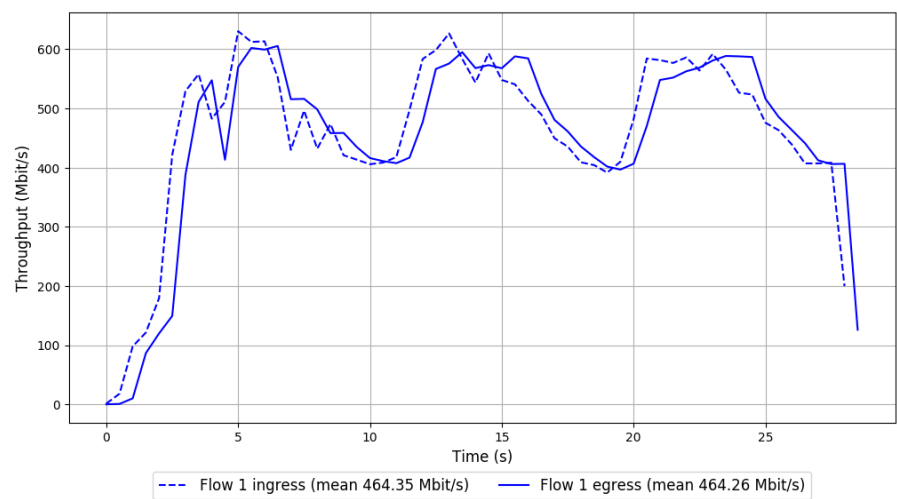


Run 3: Statistics of Indigo-MusesD

Start at: 2019-10-02 19:02:28
End at: 2019-10-02 19:02:58
Local clock offset: -18.144 ms
Remote clock offset: 14.954 ms

Below is generated by plot.py at 2019-10-02 21:38:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 464.26 Mbit/s
95th percentile per-packet one-way delay: 155.379 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 464.26 Mbit/s
95th percentile per-packet one-way delay: 155.379 ms
Loss rate: 0.63%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-10-02 19:37:12

End at: 2019-10-02 19:37:42

Local clock offset: -4.601 ms

Remote clock offset: 7.273 ms

Below is generated by plot.py at 2019-10-02 21:39:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 460.82 Mbit/s

95th percentile per-packet one-way delay: 167.660 ms

Loss rate: 1.06%

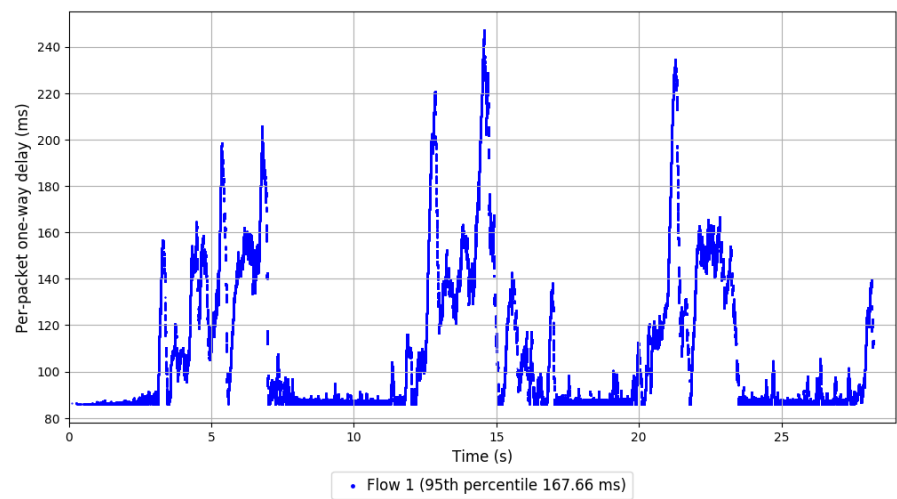
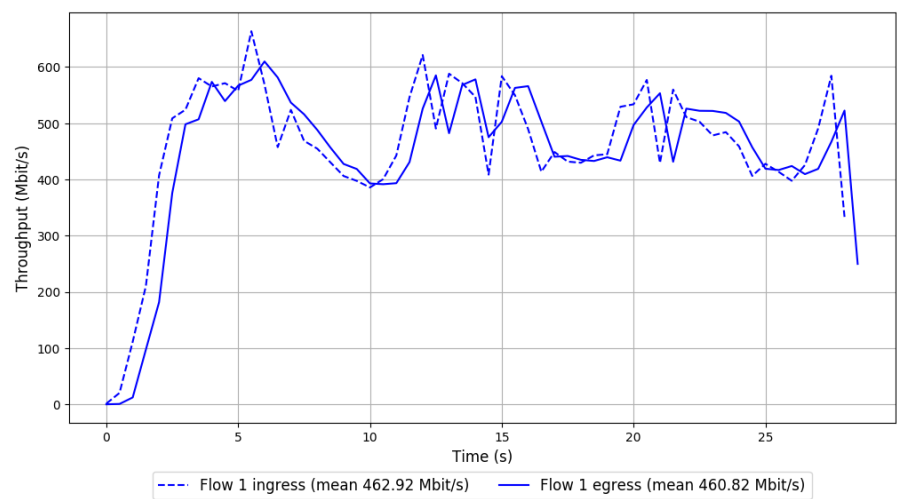
-- Flow 1:

Average throughput: 460.82 Mbit/s

95th percentile per-packet one-way delay: 167.660 ms

Loss rate: 1.06%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-10-02 20:11:53

End at: 2019-10-02 20:12:23

Local clock offset: -2.045 ms

Remote clock offset: 1.686 ms

Below is generated by plot.py at 2019-10-02 21:42:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 511.95 Mbit/s

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

Loss rate: 0.66%

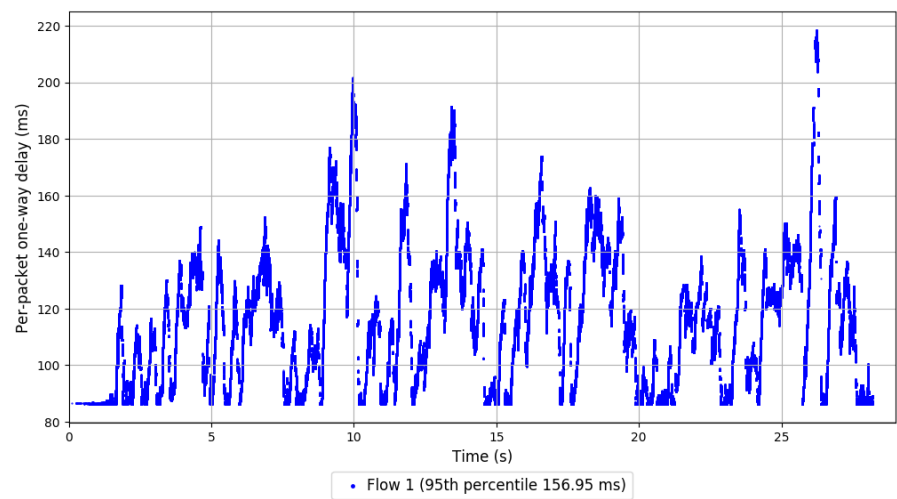
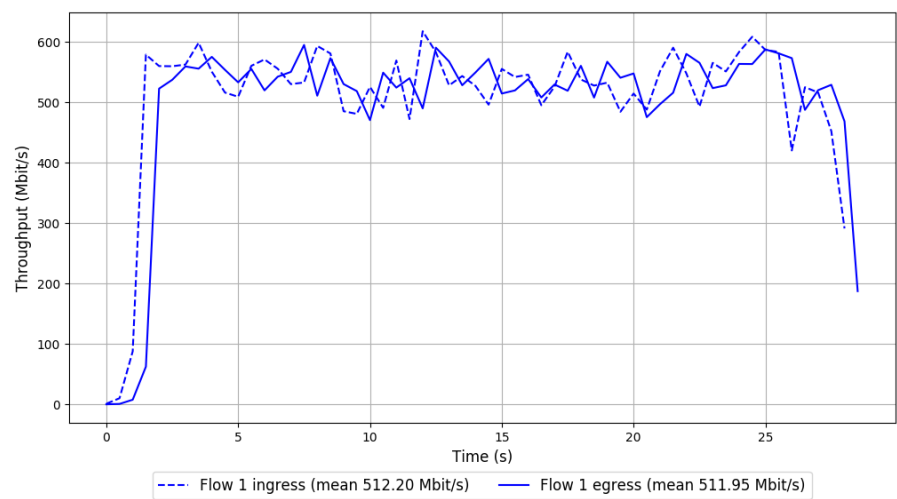
-- Flow 1:

Average throughput: 511.95 Mbit/s

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

Loss rate: 0.66%

Run 5: Report of Indigo-MusesD — Data Link

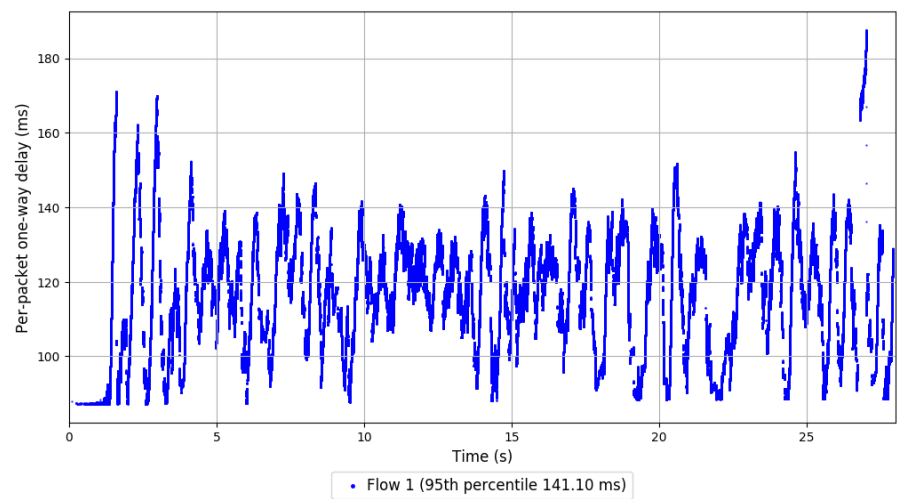
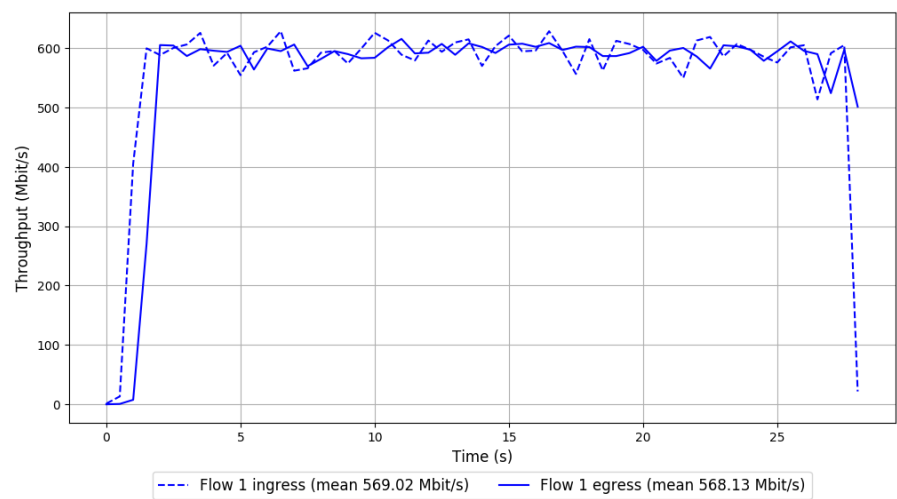


```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-10-02 17:40:54
End at: 2019-10-02 17:41:24
Local clock offset: -20.564 ms
Remote clock offset: 13.986 ms

# Below is generated by plot.py at 2019-10-02 21:43:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 568.13 Mbit/s
95th percentile per-packet one-way delay: 141.103 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 568.13 Mbit/s
95th percentile per-packet one-way delay: 141.103 ms
Loss rate: 0.77%
```

Run 1: Report of Indigo-MusesT — Data Link

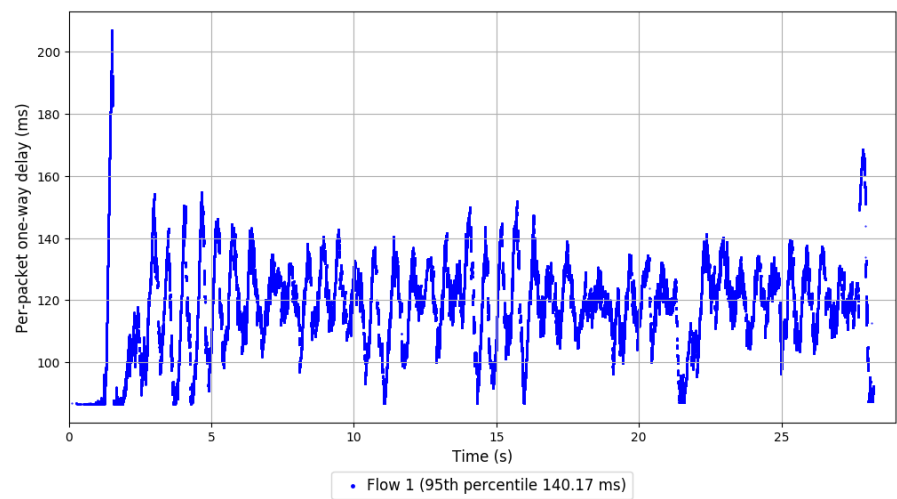
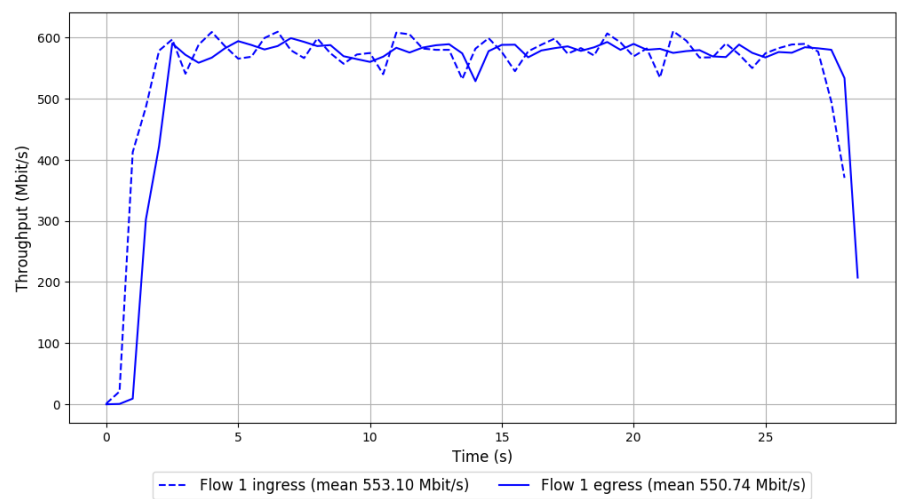


Run 2: Statistics of Indigo-MusesT

Start at: 2019-10-02 18:15:42
End at: 2019-10-02 18:16:12
Local clock offset: -23.81 ms
Remote clock offset: 19.145 ms

Below is generated by plot.py at 2019-10-02 21:44:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 550.74 Mbit/s
95th percentile per-packet one-way delay: 140.166 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 550.74 Mbit/s
95th percentile per-packet one-way delay: 140.166 ms
Loss rate: 1.03%

Run 2: Report of Indigo-MusesT — Data Link

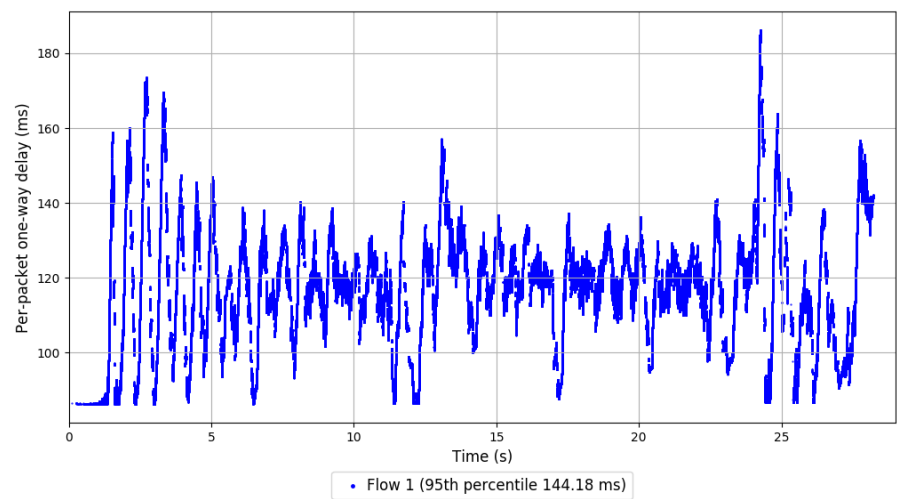
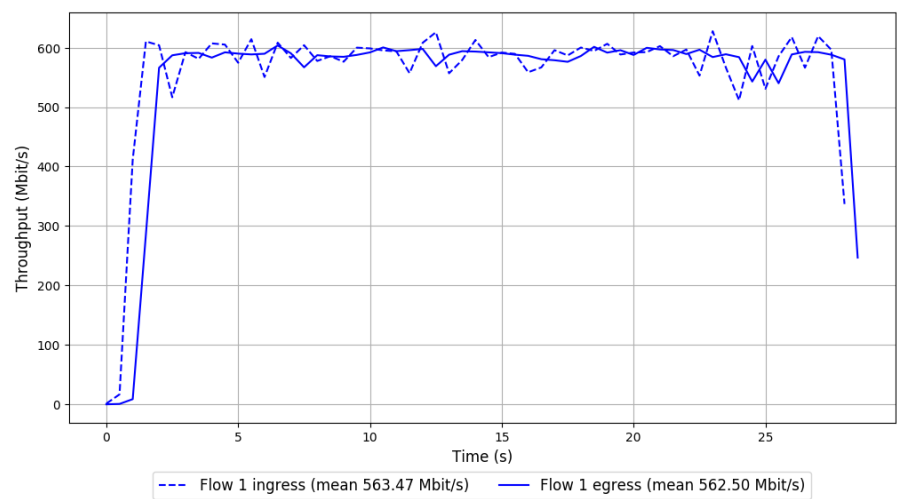


Run 3: Statistics of Indigo-MusesT

Start at: 2019-10-02 18:50:40
End at: 2019-10-02 18:51:10
Local clock offset: -37.729 ms
Remote clock offset: 12.432 ms

Below is generated by plot.py at 2019-10-02 21:49:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 562.50 Mbit/s
95th percentile per-packet one-way delay: 144.177 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 562.50 Mbit/s
95th percentile per-packet one-way delay: 144.177 ms
Loss rate: 0.78%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-10-02 19:25:14

End at: 2019-10-02 19:25:44

Local clock offset: -9.997 ms

Remote clock offset: 6.044 ms

Below is generated by plot.py at 2019-10-02 21:49:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 508.51 Mbit/s

95th percentile per-packet one-way delay: 174.359 ms

Loss rate: 1.20%

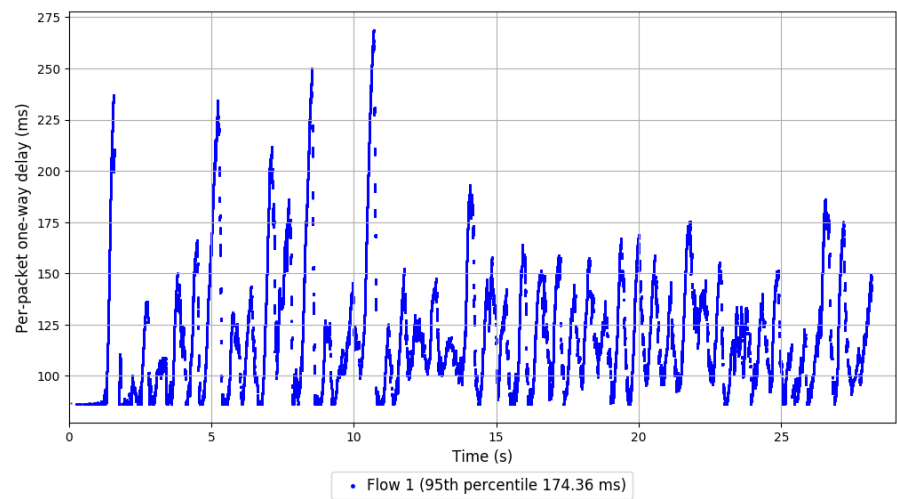
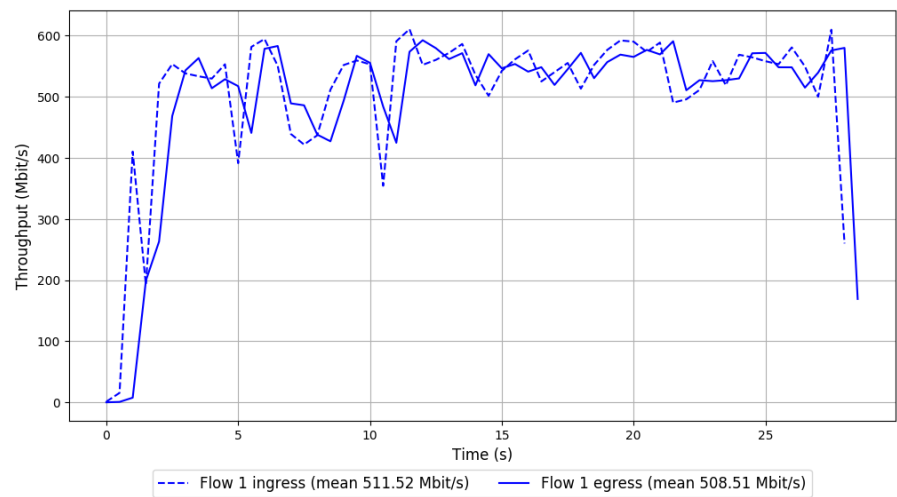
-- Flow 1:

Average throughput: 508.51 Mbit/s

95th percentile per-packet one-way delay: 174.359 ms

Loss rate: 1.20%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-10-02 19:59:58

End at: 2019-10-02 20:00:28

Local clock offset: -4.805 ms

Remote clock offset: 1.732 ms

Below is generated by plot.py at 2019-10-02 21:51:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 622.75 Mbit/s

95th percentile per-packet one-way delay: 181.085 ms

Loss rate: 0.79%

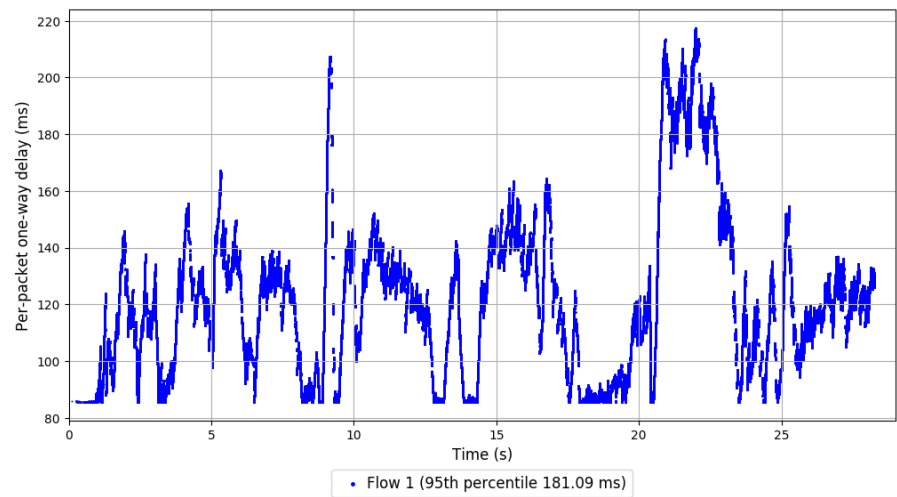
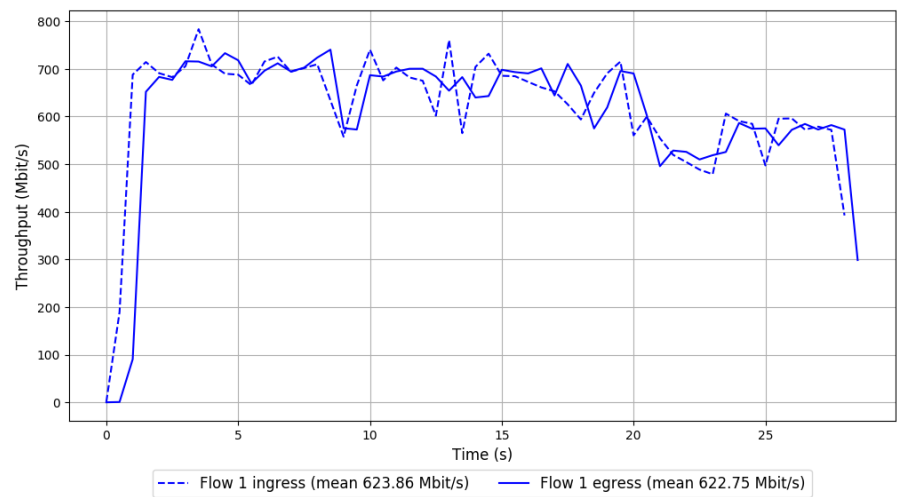
-- Flow 1:

Average throughput: 622.75 Mbit/s

95th percentile per-packet one-way delay: 181.085 ms

Loss rate: 0.79%

Run 5: Report of Indigo-MusesT — Data Link

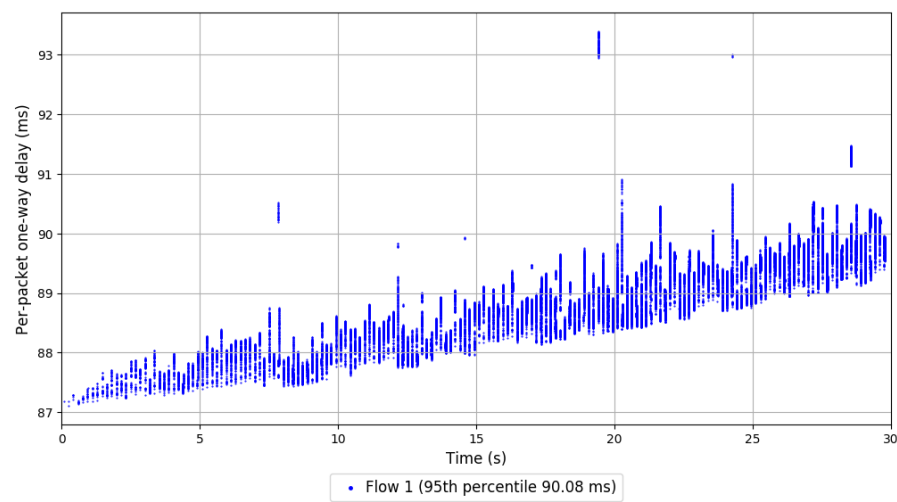
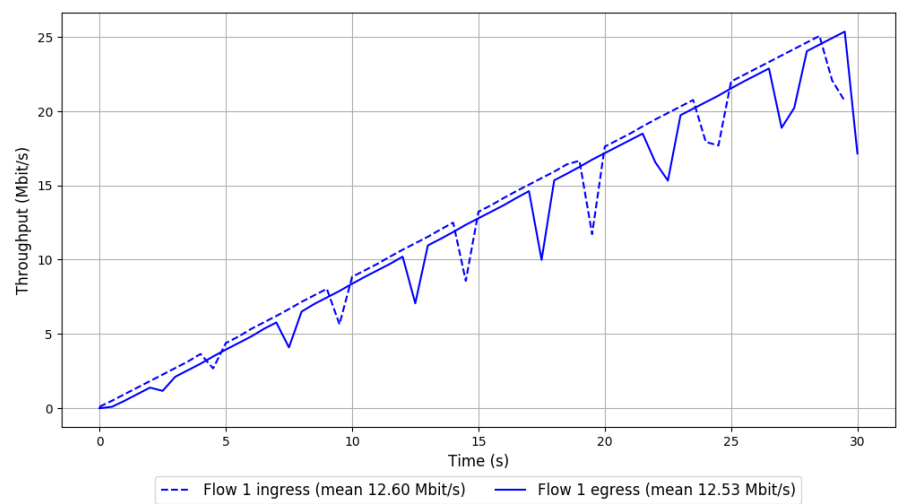


Run 1: Statistics of LEDBAT

Start at: 2019-10-02 17:35:52
End at: 2019-10-02 17:36:22
Local clock offset: -20.546 ms
Remote clock offset: 7.456 ms

Below is generated by plot.py at 2019-10-02 21:51:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.53 Mbit/s
95th percentile per-packet one-way delay: 90.085 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.53 Mbit/s
95th percentile per-packet one-way delay: 90.085 ms
Loss rate: 1.15%

Run 1: Report of LEDBAT — Data Link

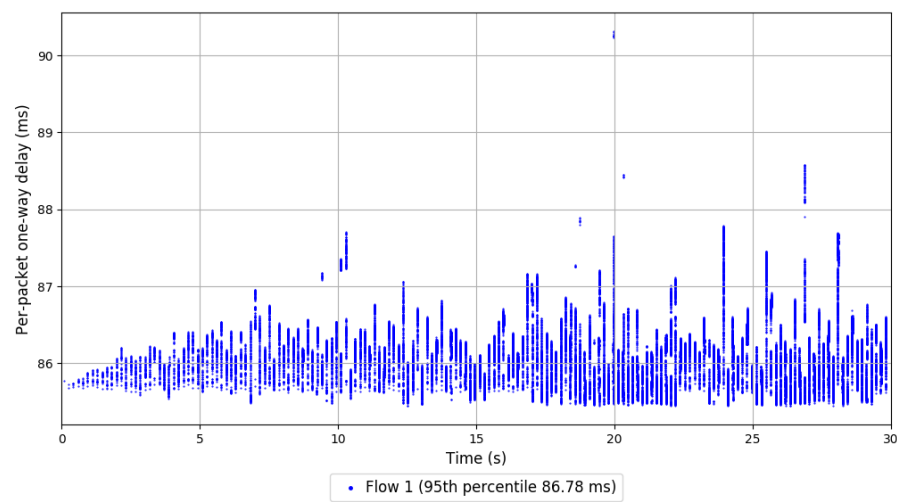
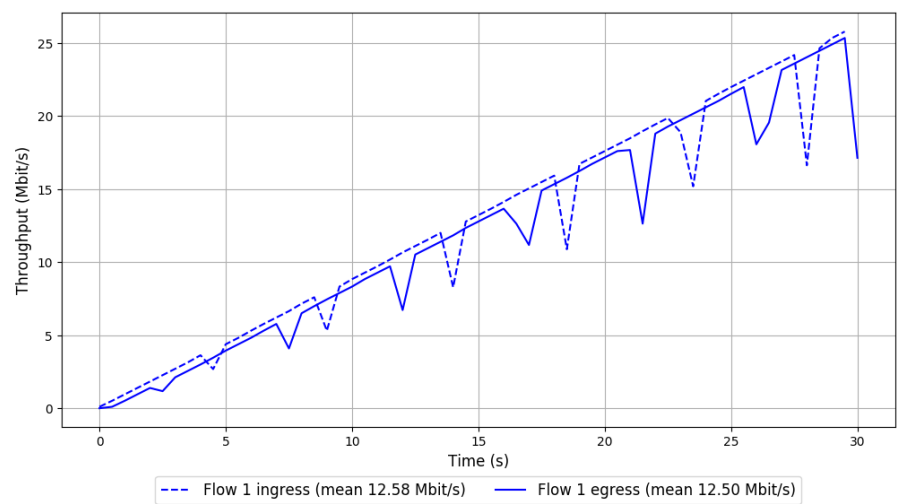


Run 2: Statistics of LEDBAT

Start at: 2019-10-02 18:10:19
End at: 2019-10-02 18:10:49
Local clock offset: -22.51 ms
Remote clock offset: 16.689 ms

Below is generated by plot.py at 2019-10-02 21:51:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.50 Mbit/s
95th percentile per-packet one-way delay: 86.779 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.50 Mbit/s
95th percentile per-packet one-way delay: 86.779 ms
Loss rate: 1.15%

Run 2: Report of LEDBAT — Data Link

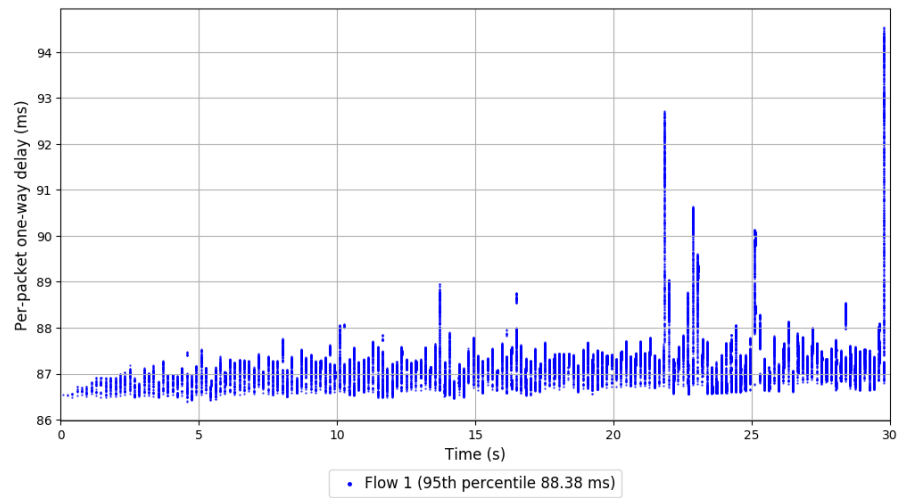
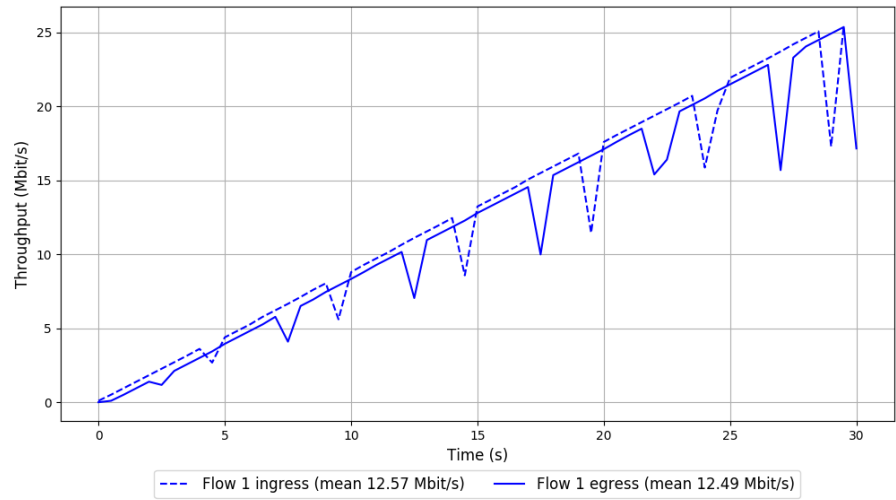


Run 3: Statistics of LEDBAT

Start at: 2019-10-02 18:45:17
End at: 2019-10-02 18:45:47
Local clock offset: -31.759 ms
Remote clock offset: 13.378 ms

Below is generated by plot.py at 2019-10-02 21:51:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.49 Mbit/s
95th percentile per-packet one-way delay: 88.375 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.49 Mbit/s
95th percentile per-packet one-way delay: 88.375 ms
Loss rate: 1.15%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-10-02 19:19:53

End at: 2019-10-02 19:20:23

Local clock offset: -9.502 ms

Remote clock offset: 6.497 ms

Below is generated by plot.py at 2019-10-02 21:51:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.52 Mbit/s

95th percentile per-packet one-way delay: 87.204 ms

Loss rate: 1.15%

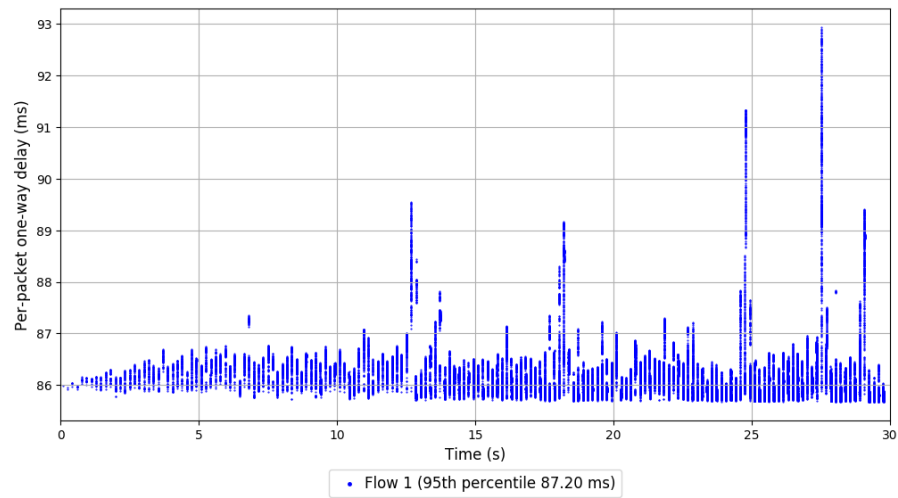
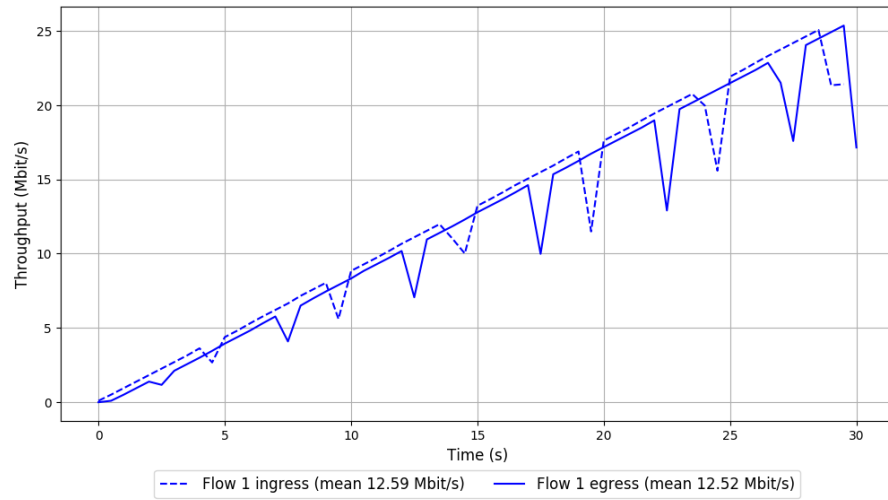
-- Flow 1:

Average throughput: 12.52 Mbit/s

95th percentile per-packet one-way delay: 87.204 ms

Loss rate: 1.15%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-10-02 19:54:33

End at: 2019-10-02 19:55:03

Local clock offset: -3.801 ms

Remote clock offset: 2.274 ms

Below is generated by plot.py at 2019-10-02 21:51:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.50 Mbit/s

95th percentile per-packet one-way delay: 87.708 ms

Loss rate: 1.15%

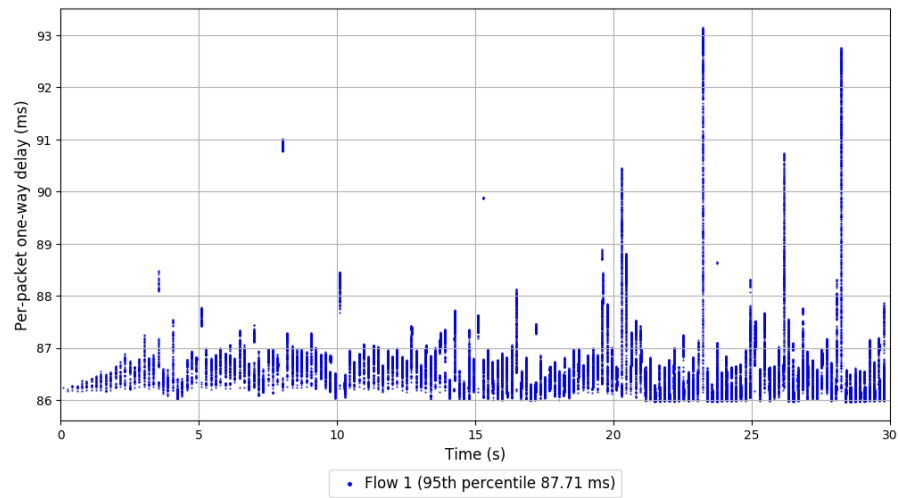
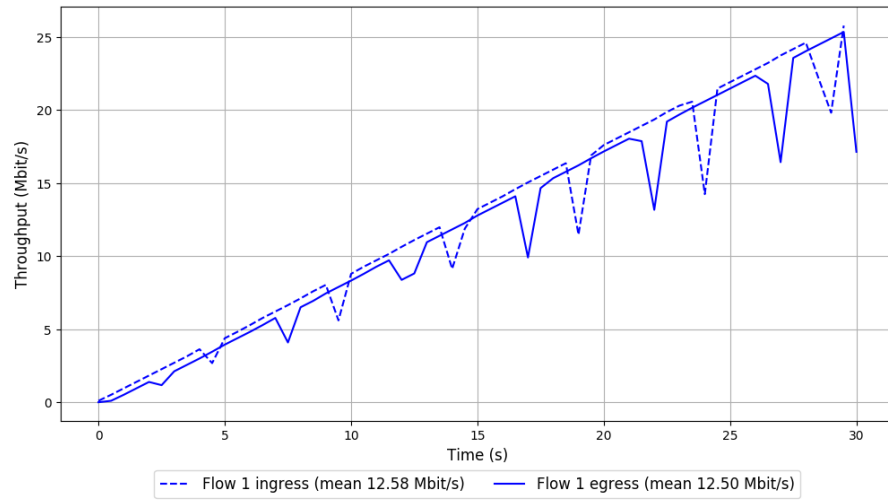
-- Flow 1:

Average throughput: 12.50 Mbit/s

95th percentile per-packet one-way delay: 87.708 ms

Loss rate: 1.15%

Run 5: Report of LEDBAT — Data Link

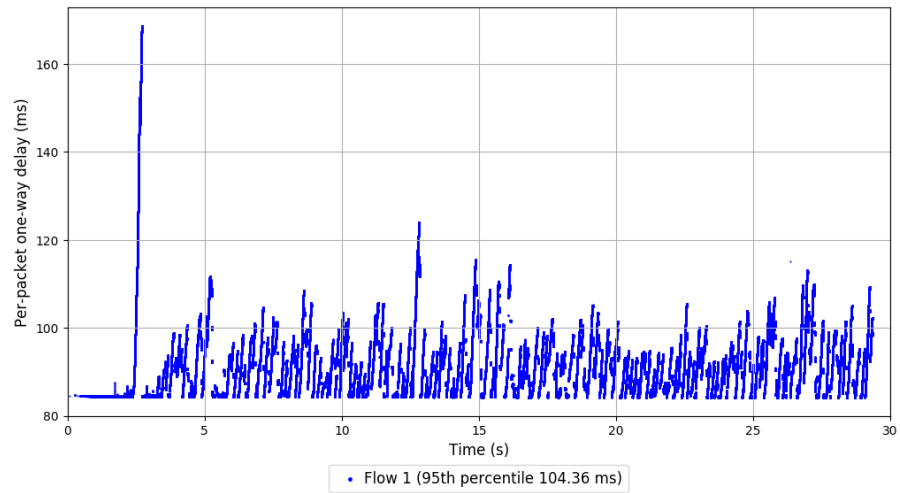
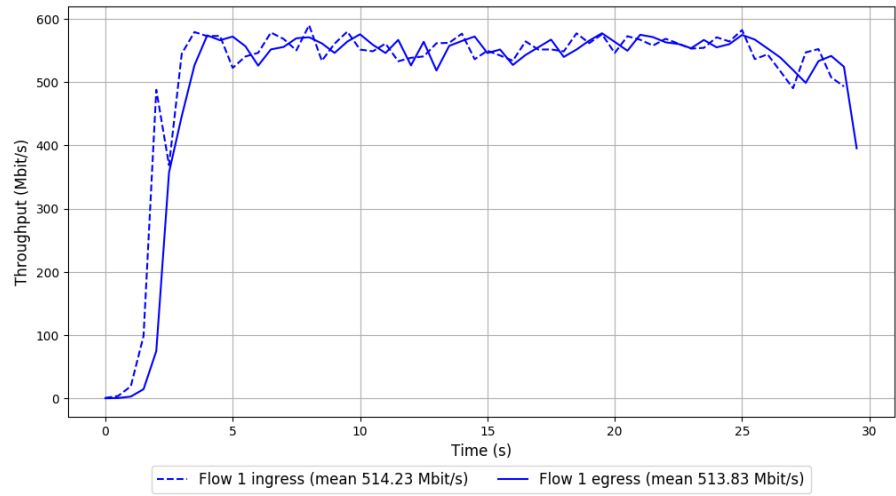


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-10-02 17:48:12
End at: 2019-10-02 17:48:42
Local clock offset: -30.807 ms
Remote clock offset: 11.495 ms

# Below is generated by plot.py at 2019-10-02 21:52:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 513.83 Mbit/s
95th percentile per-packet one-way delay: 104.365 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 513.83 Mbit/s
95th percentile per-packet one-way delay: 104.365 ms
Loss rate: 0.64%
```

Run 1: Report of Muses_DecisionTree — Data Link

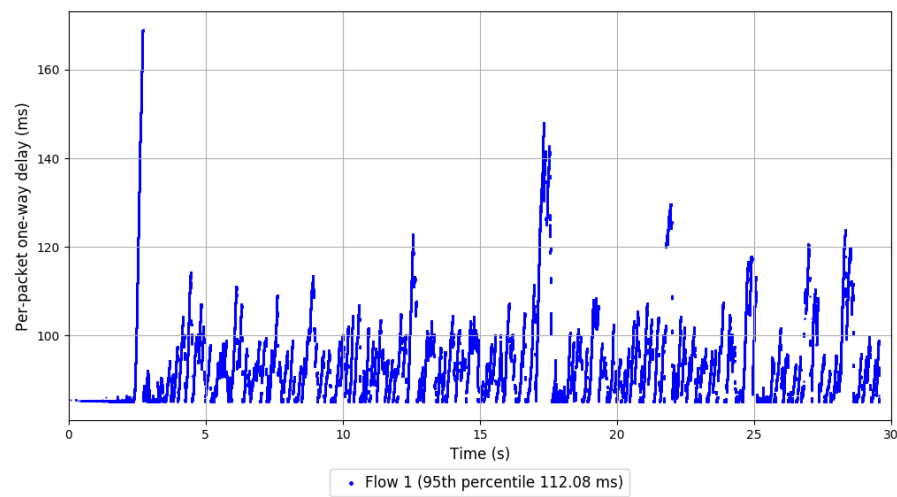
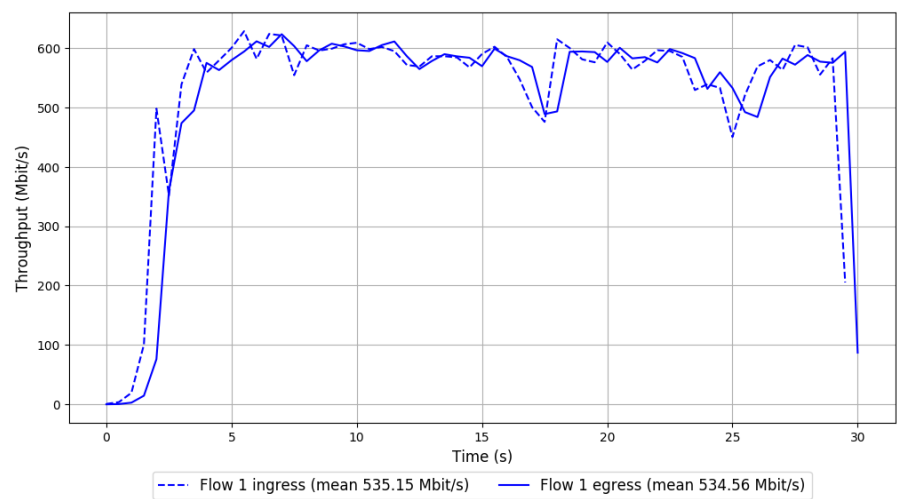


Run 2: Statistics of Muses_DecisionTree

Start at: 2019-10-02 18:22:53
End at: 2019-10-02 18:23:23
Local clock offset: -24.463 ms
Remote clock offset: 24.297 ms

Below is generated by plot.py at 2019-10-02 21:53:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 534.56 Mbit/s
95th percentile per-packet one-way delay: 112.078 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 534.56 Mbit/s
95th percentile per-packet one-way delay: 112.078 ms
Loss rate: 0.69%

Run 2: Report of Muses_DecisionTree — Data Link

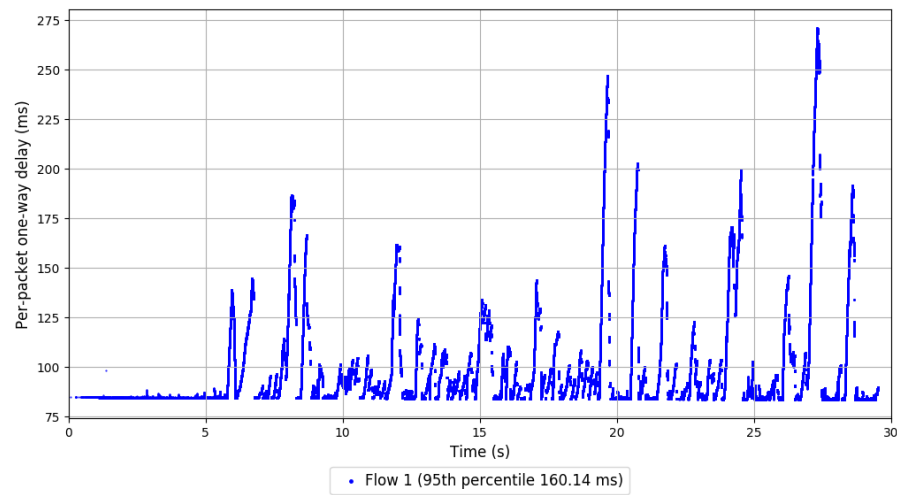
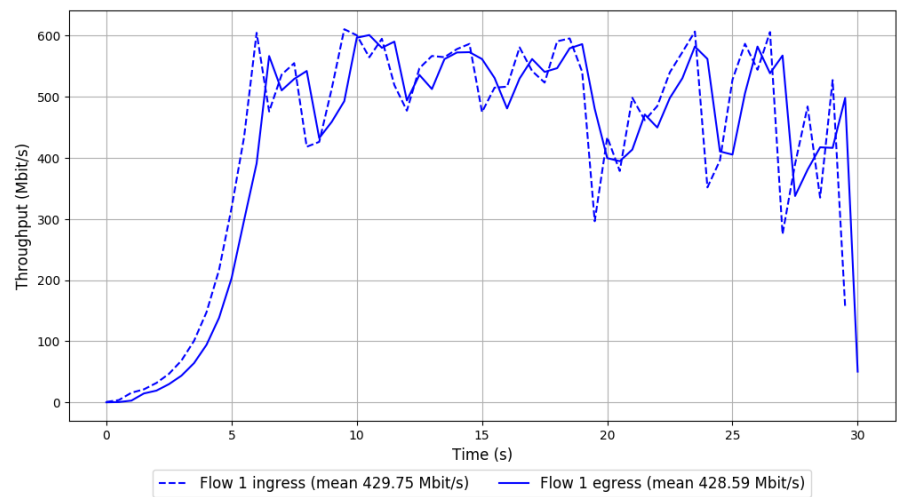


Run 3: Statistics of Muses_DecisionTree

Start at: 2019-10-02 18:57:52
End at: 2019-10-02 18:58:22
Local clock offset: -28.303 ms
Remote clock offset: 13.527 ms

Below is generated by plot.py at 2019-10-02 21:53:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 428.59 Mbit/s
95th percentile per-packet one-way delay: 160.141 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 428.59 Mbit/s
95th percentile per-packet one-way delay: 160.141 ms
Loss rate: 0.86%

Run 3: Report of Muses_DecisionTree — Data Link



Run 4: Statistics of Muses_DecisionTree

Start at: 2019-10-02 19:32:30

End at: 2019-10-02 19:33:00

Local clock offset: -6.933 ms

Remote clock offset: 6.553 ms

Below is generated by plot.py at 2019-10-02 21:55:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 539.75 Mbit/s

95th percentile per-packet one-way delay: 124.264 ms

Loss rate: 0.38%

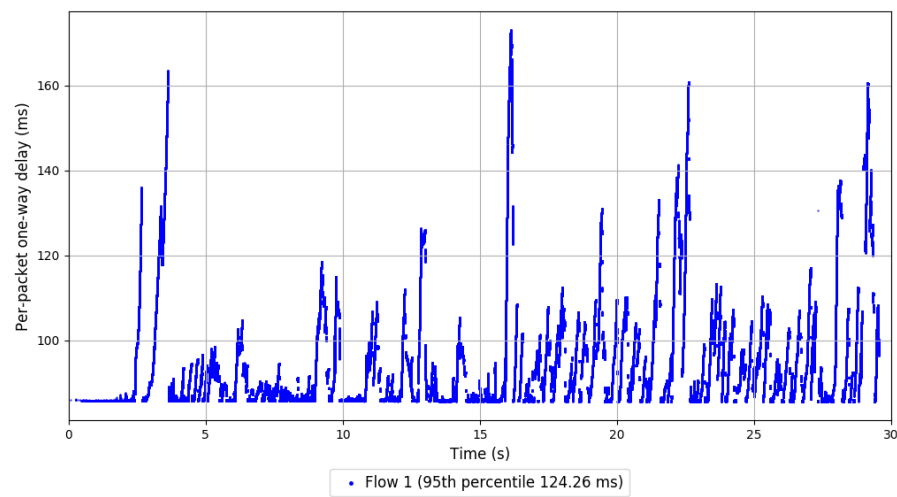
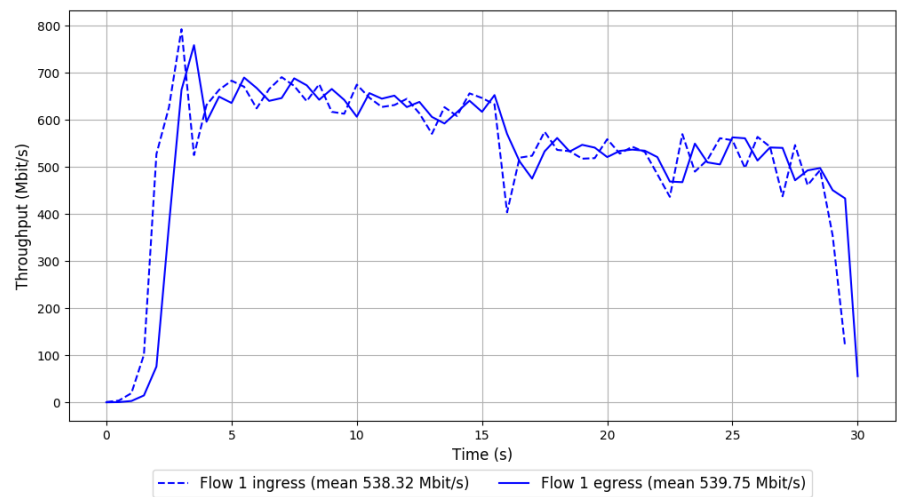
-- Flow 1:

Average throughput: 539.75 Mbit/s

95th percentile per-packet one-way delay: 124.264 ms

Loss rate: 0.38%

Run 4: Report of Muses_DecisionTree — Data Link



Run 5: Statistics of Muses_DecisionTree

Start at: 2019-10-02 20:07:22

End at: 2019-10-02 20:07:52

Local clock offset: -3.424 ms

Remote clock offset: 1.612 ms

Below is generated by plot.py at 2019-10-02 21:55:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 435.70 Mbit/s

95th percentile per-packet one-way delay: 126.269 ms

Loss rate: 0.75%

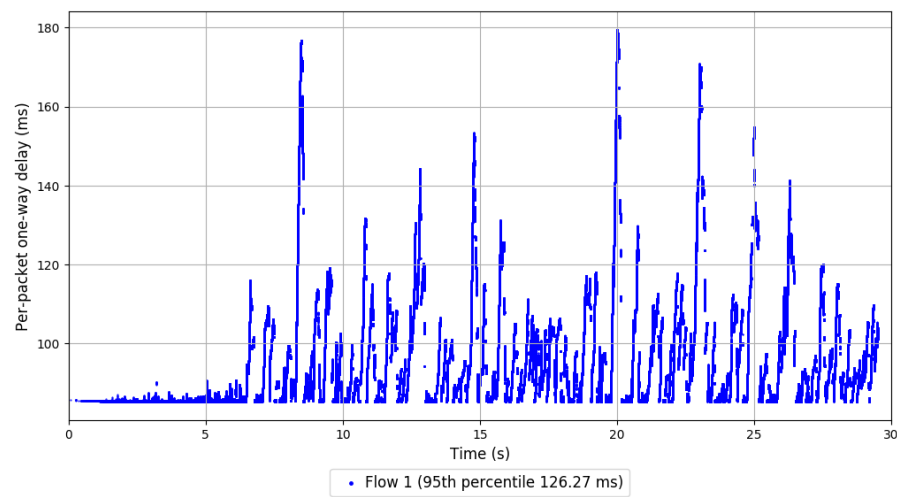
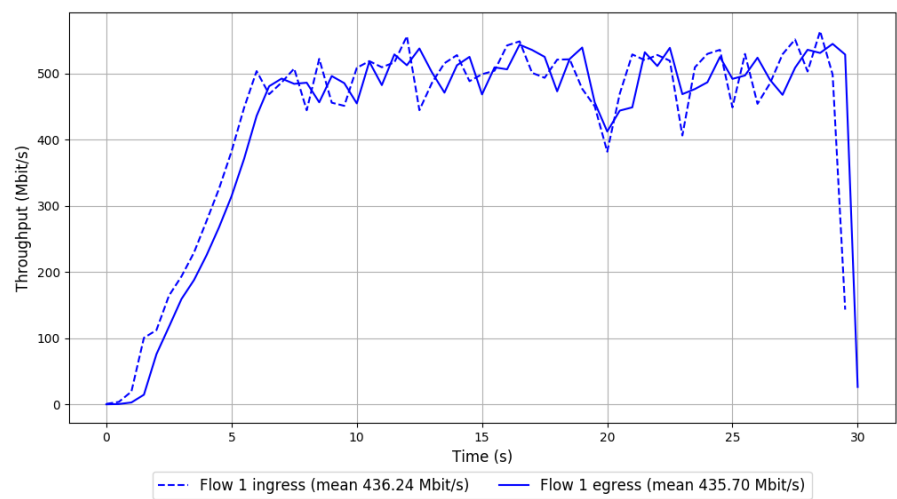
-- Flow 1:

Average throughput: 435.70 Mbit/s

95th percentile per-packet one-way delay: 126.269 ms

Loss rate: 0.75%

Run 5: Report of Muses_DecisionTree — Data Link

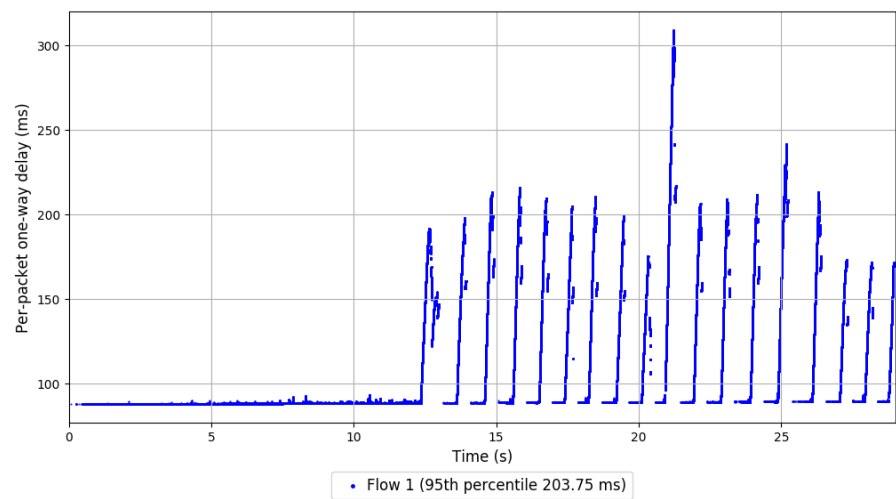
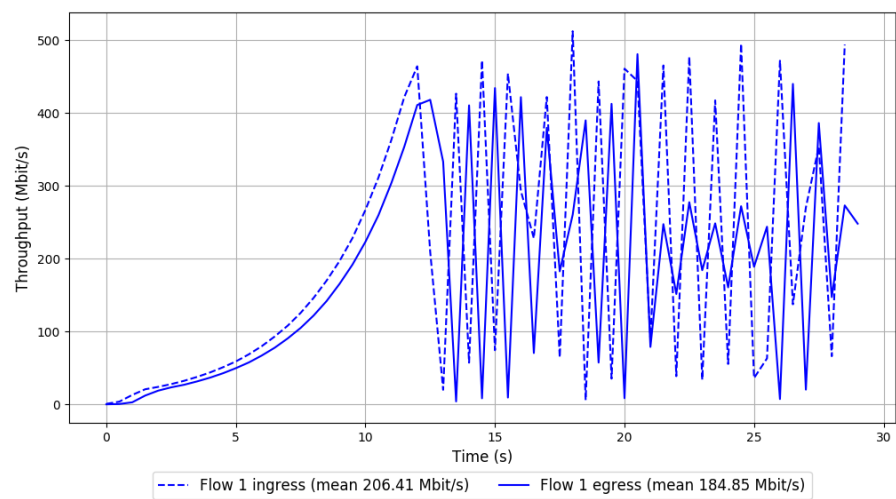



```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-10-02 17:44:03
End at: 2019-10-02 17:44:33
Local clock offset: -30.149 ms
Remote clock offset: 11.229 ms

# Below is generated by plot.py at 2019-10-02 21:55:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 184.85 Mbit/s
95th percentile per-packet one-way delay: 203.751 ms
Loss rate: 10.65%
-- Flow 1:
Average throughput: 184.85 Mbit/s
95th percentile per-packet one-way delay: 203.751 ms
Loss rate: 10.65%
```

Run 1: Report of Muses_DecisionTreeH0 — Data Link

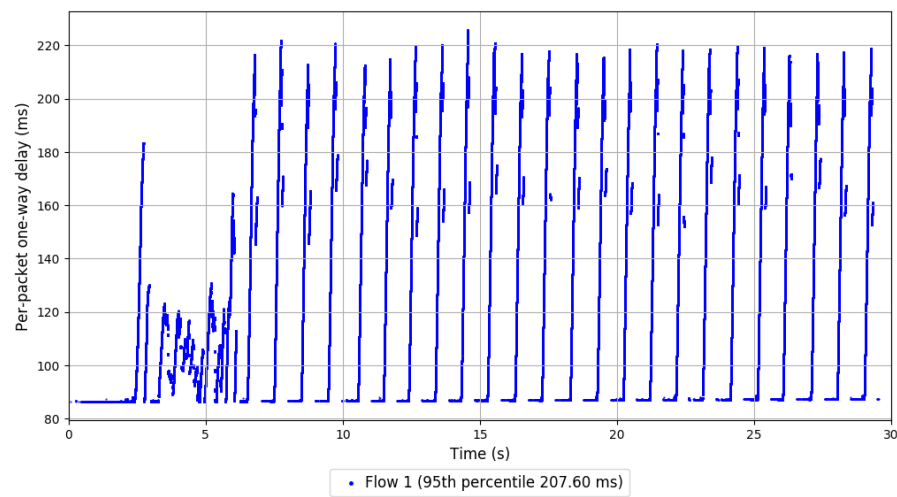
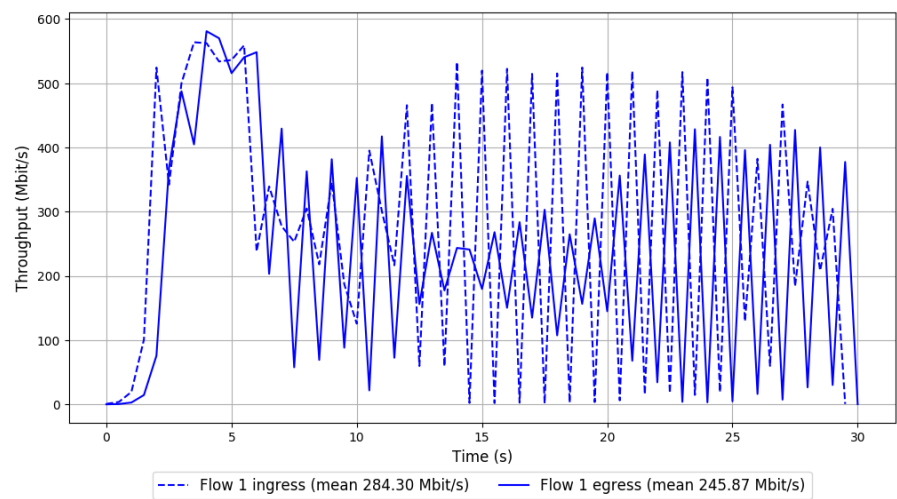


Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-10-02 18:18:44
End at: 2019-10-02 18:19:14
Local clock offset: -27.199 ms
Remote clock offset: 21.237 ms

Below is generated by plot.py at 2019-10-02 21:55:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 245.87 Mbit/s
95th percentile per-packet one-way delay: 207.597 ms
Loss rate: 14.02%
-- Flow 1:
Average throughput: 245.87 Mbit/s
95th percentile per-packet one-way delay: 207.597 ms
Loss rate: 14.02%

Run 2: Report of Muses_DecisionTreeH0 — Data Link

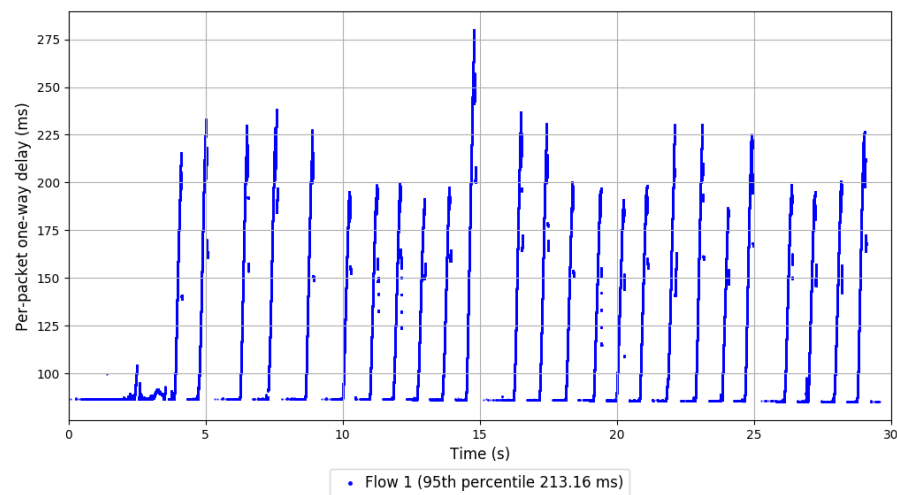
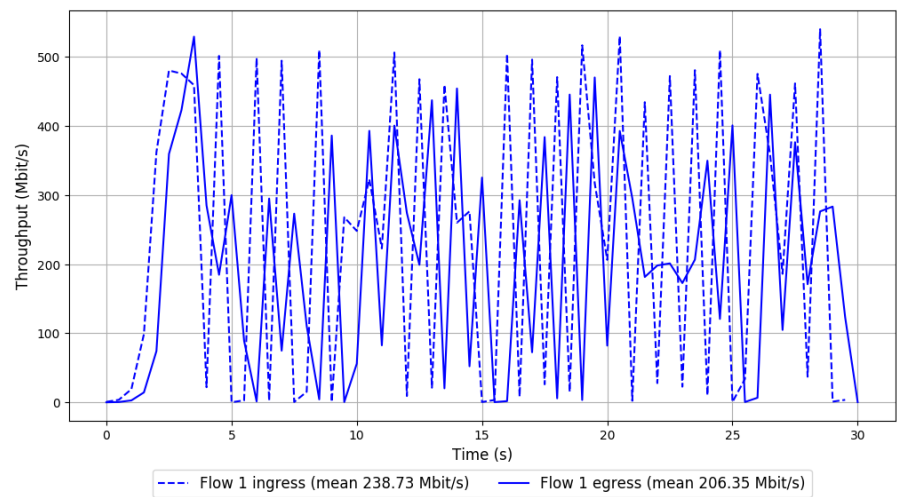


Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-10-02 18:53:40
End at: 2019-10-02 18:54:10
Local clock offset: -41.216 ms
Remote clock offset: 12.641 ms

Below is generated by plot.py at 2019-10-02 21:56:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 206.35 Mbit/s
95th percentile per-packet one-way delay: 213.159 ms
Loss rate: 14.09%
-- Flow 1:
Average throughput: 206.35 Mbit/s
95th percentile per-packet one-way delay: 213.159 ms
Loss rate: 14.09%

Run 3: Report of Muses_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-10-02 19:28:15

End at: 2019-10-02 19:28:45

Local clock offset: -10.4 ms

Remote clock offset: 6.11 ms

Below is generated by plot.py at 2019-10-02 21:57:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 272.48 Mbit/s

95th percentile per-packet one-way delay: 205.325 ms

Loss rate: 8.45%

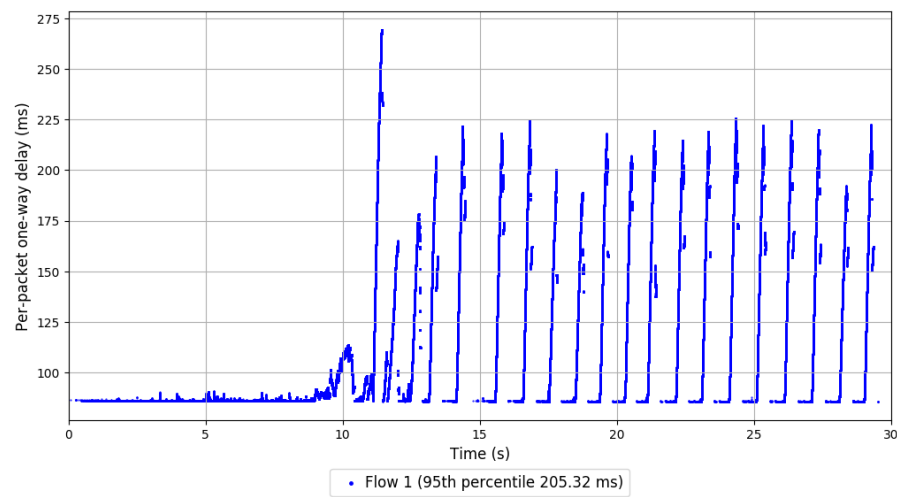
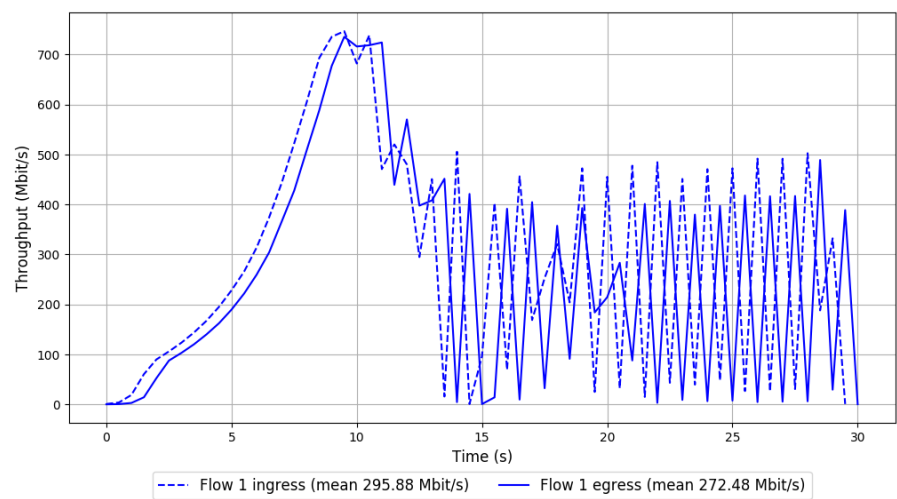
-- Flow 1:

Average throughput: 272.48 Mbit/s

95th percentile per-packet one-way delay: 205.325 ms

Loss rate: 8.45%

Run 4: Report of Muses_DecisionTreeH0 — Data Link



Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-10-02 20:03:07

End at: 2019-10-02 20:03:37

Local clock offset: -4.527 ms

Remote clock offset: 1.631 ms

Below is generated by plot.py at 2019-10-02 21:57:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.62 Mbit/s

95th percentile per-packet one-way delay: 217.650 ms

Loss rate: 15.92%

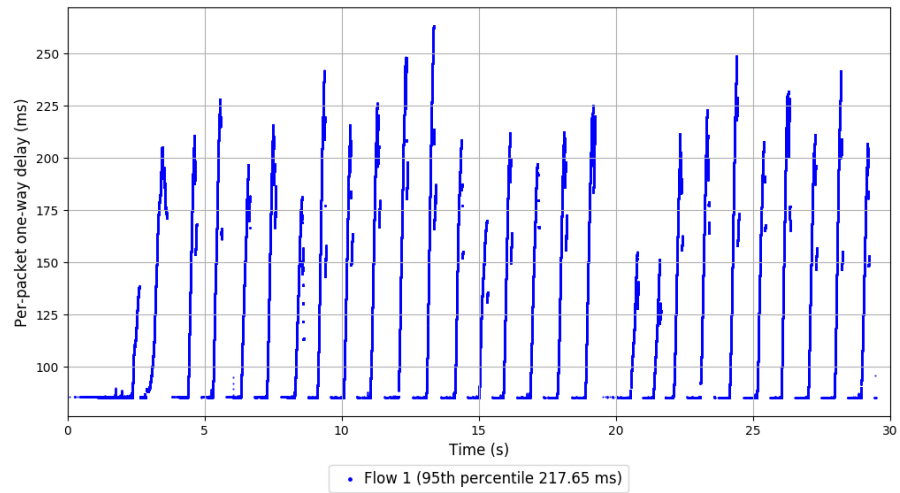
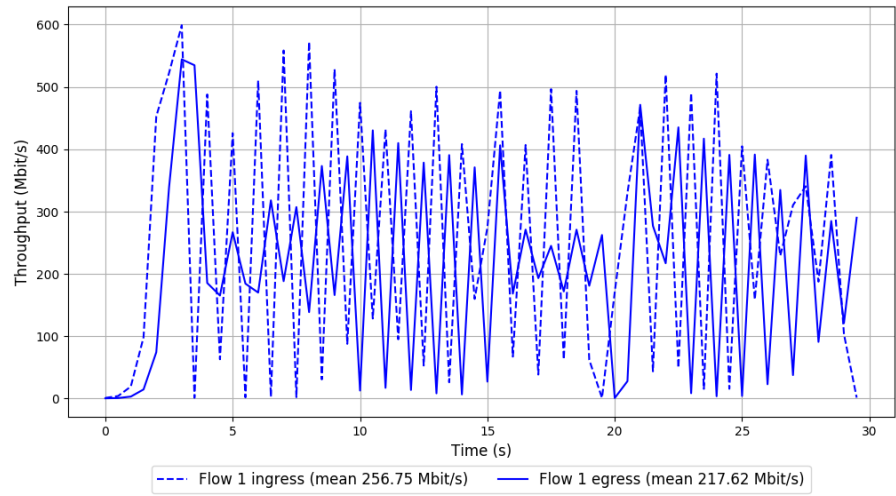
-- Flow 1:

Average throughput: 217.62 Mbit/s

95th percentile per-packet one-way delay: 217.650 ms

Loss rate: 15.92%

Run 5: Report of Muses_DecisionTreeH0 — Data Link

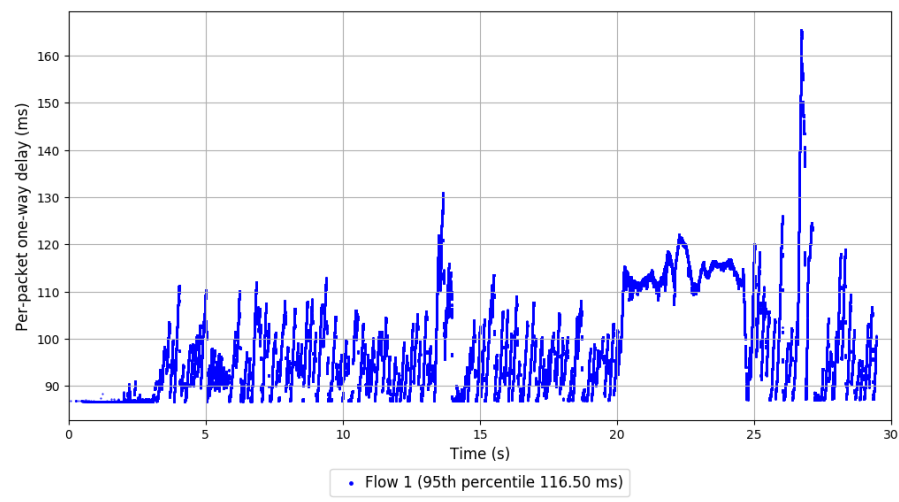
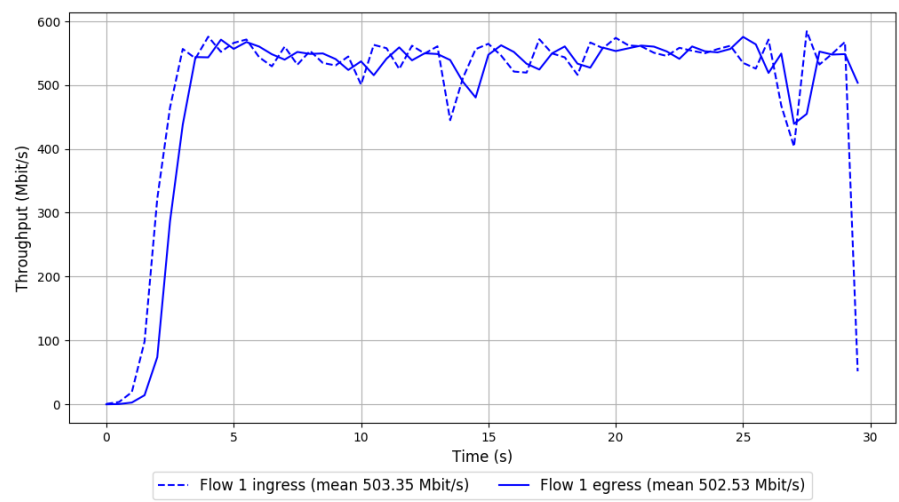


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-10-02 17:49:47
End at: 2019-10-02 17:50:17
Local clock offset: -27.892 ms
Remote clock offset: 12.503 ms

# Below is generated by plot.py at 2019-10-02 22:03:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 502.53 Mbit/s
95th percentile per-packet one-way delay: 116.497 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 502.53 Mbit/s
95th percentile per-packet one-way delay: 116.497 ms
Loss rate: 0.74%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link

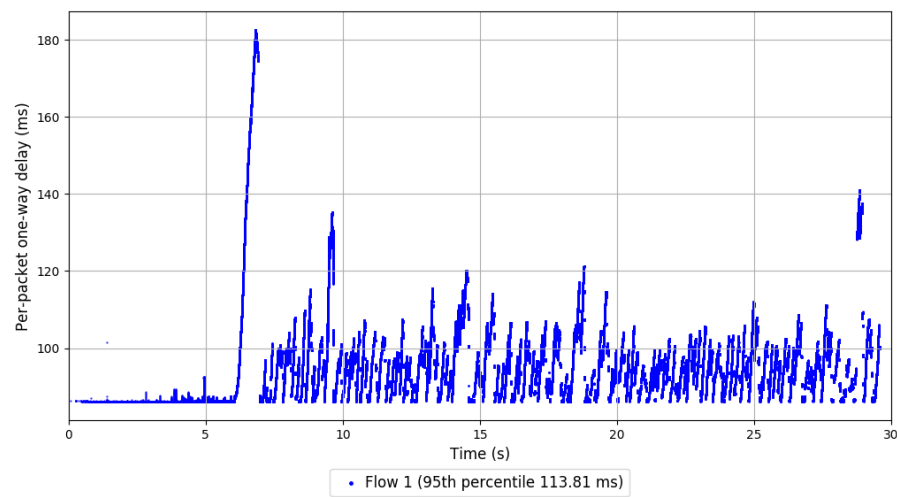
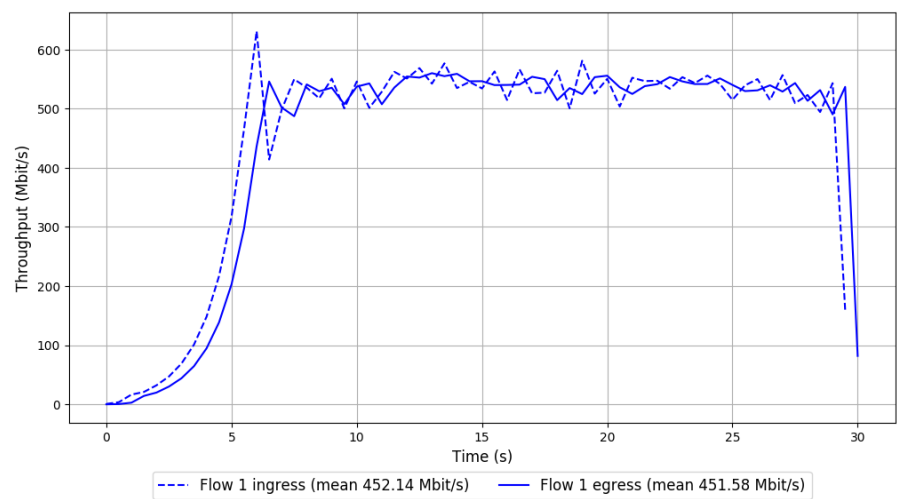


Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-02 18:24:29
End at: 2019-10-02 18:24:59
Local clock offset: -22.109 ms
Remote clock offset: 25.588 ms

Below is generated by plot.py at 2019-10-02 22:03:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 451.58 Mbit/s
95th percentile per-packet one-way delay: 113.808 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 451.58 Mbit/s
95th percentile per-packet one-way delay: 113.808 ms
Loss rate: 0.71%

Run 2: Report of Muses_DecisionTreeR0 — Data Link

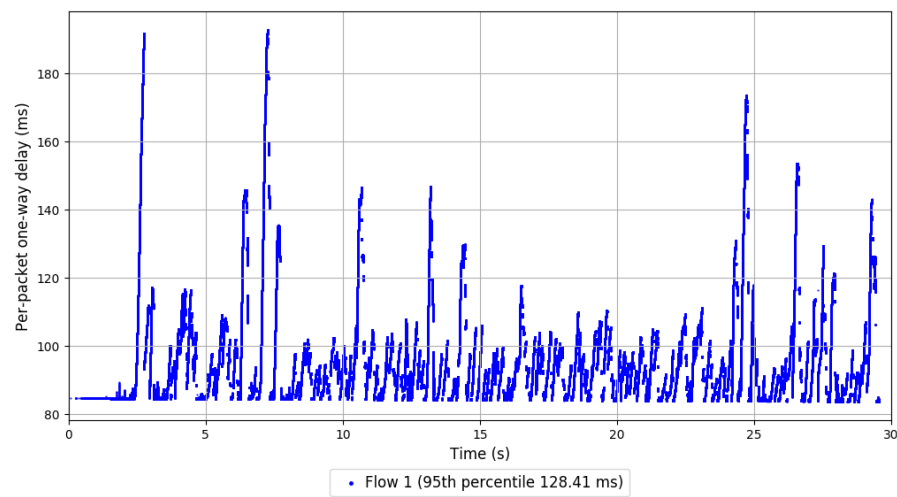
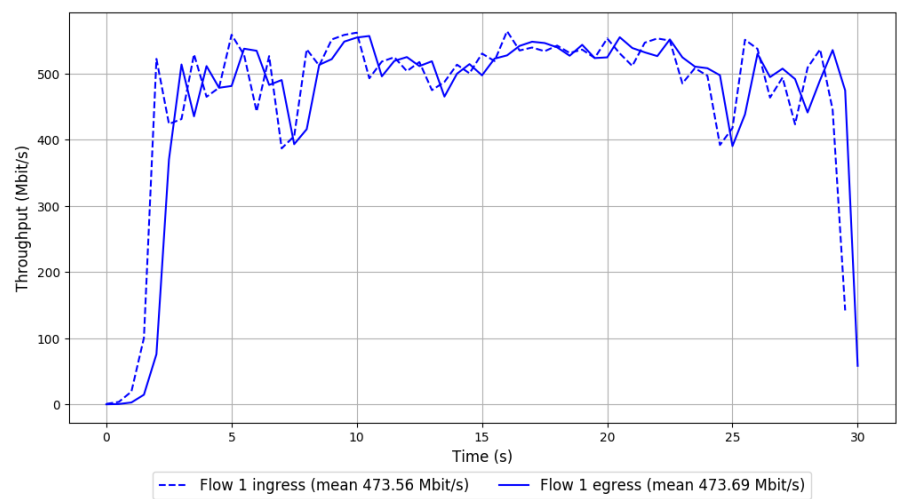


Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-02 18:59:22
End at: 2019-10-02 18:59:52
Local clock offset: -24.685 ms
Remote clock offset: 13.937 ms

Below is generated by plot.py at 2019-10-02 22:04:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 473.69 Mbit/s
95th percentile per-packet one-way delay: 128.413 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 473.69 Mbit/s
95th percentile per-packet one-way delay: 128.413 ms
Loss rate: 0.56%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-02 19:34:06

End at: 2019-10-02 19:34:36

Local clock offset: -6.08 ms

Remote clock offset: 6.75 ms

Below is generated by plot.py at 2019-10-02 22:05:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 455.46 Mbit/s

95th percentile per-packet one-way delay: 132.593 ms

Loss rate: 0.72%

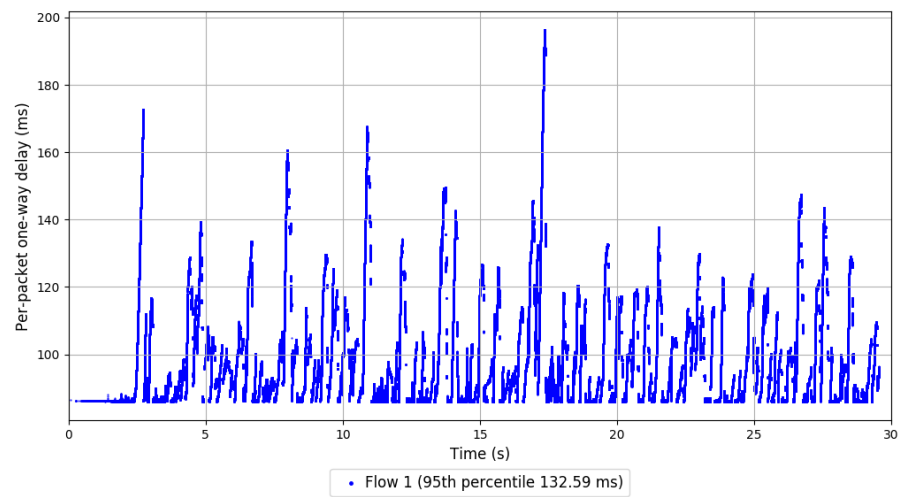
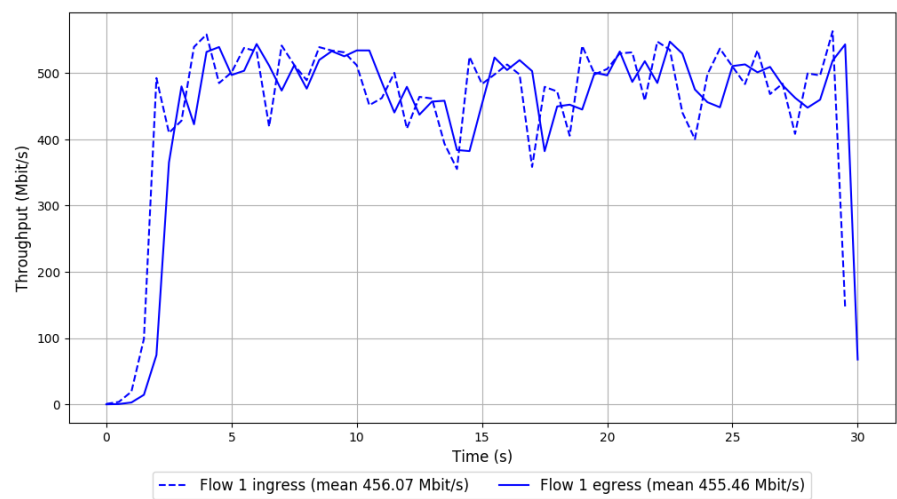
-- Flow 1:

Average throughput: 455.46 Mbit/s

95th percentile per-packet one-way delay: 132.593 ms

Loss rate: 0.72%

Run 4: Report of Muses_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-02 20:08:53

End at: 2019-10-02 20:09:23

Local clock offset: -2.684 ms

Remote clock offset: 1.627 ms

Below is generated by plot.py at 2019-10-02 22:05:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 393.22 Mbit/s

95th percentile per-packet one-way delay: 145.557 ms

Loss rate: 0.86%

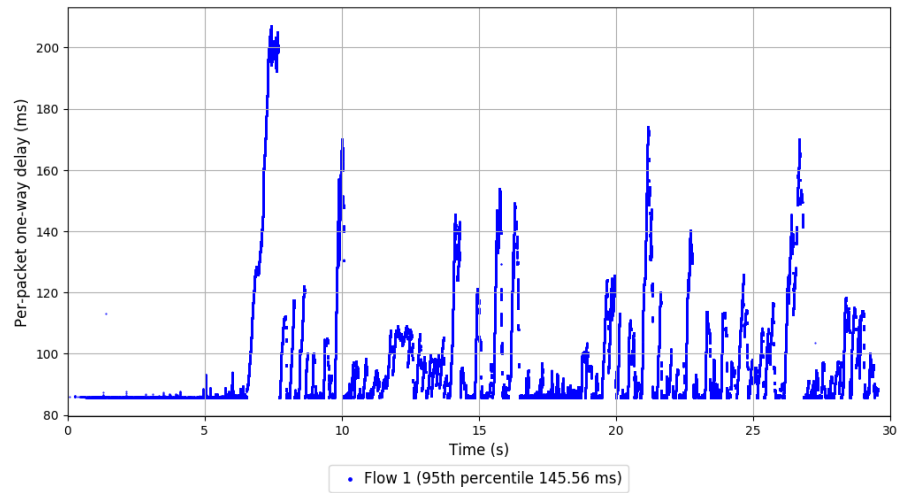
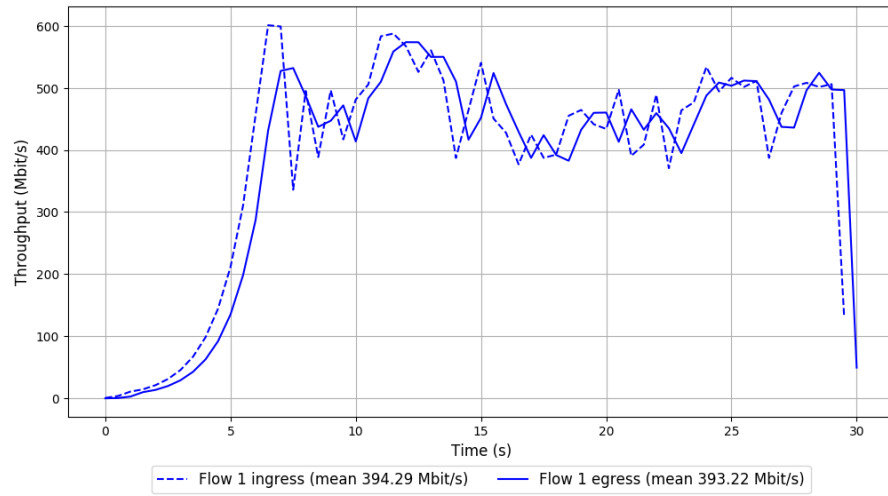
-- Flow 1:

Average throughput: 393.22 Mbit/s

95th percentile per-packet one-way delay: 145.557 ms

Loss rate: 0.86%

Run 5: Report of Muses_DecisionTreeR0 — Data Link

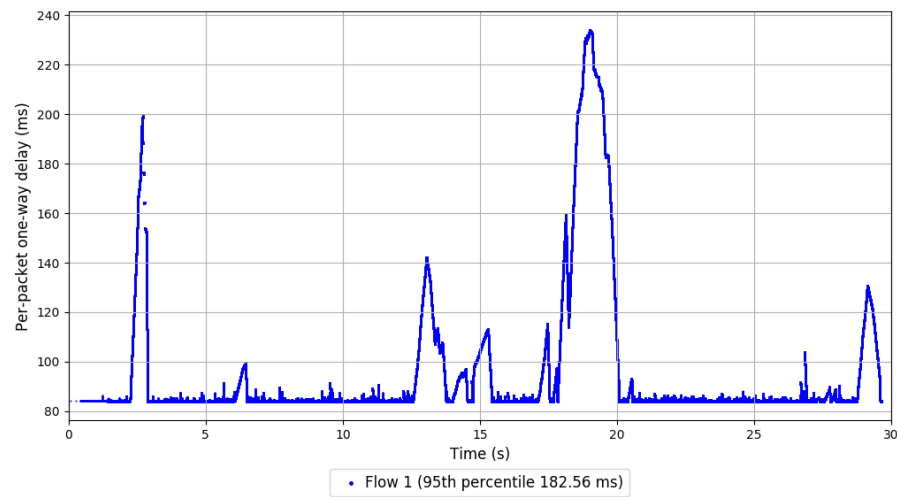
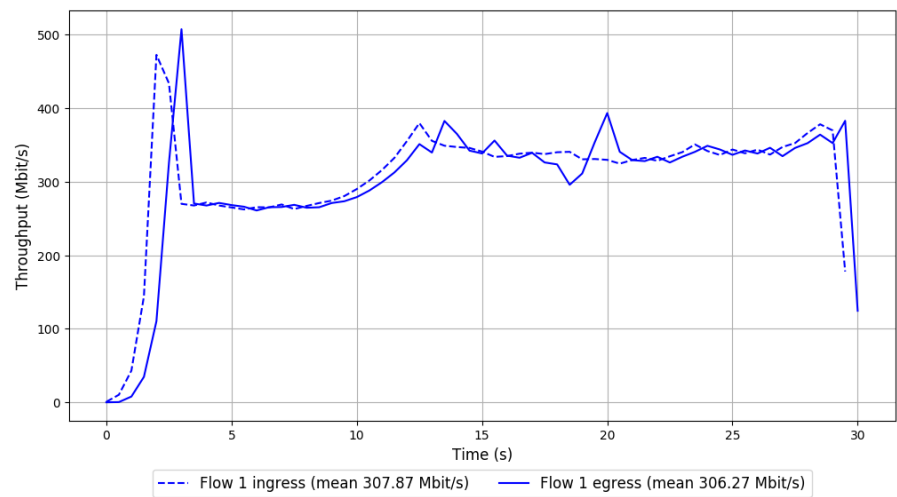


Run 1: Statistics of PCC-Allegro

Start at: 2019-10-02 17:38:11
End at: 2019-10-02 17:38:41
Local clock offset: -22.202 ms
Remote clock offset: 9.939 ms

Below is generated by plot.py at 2019-10-02 22:09:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 306.27 Mbit/s
95th percentile per-packet one-way delay: 182.557 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 306.27 Mbit/s
95th percentile per-packet one-way delay: 182.557 ms
Loss rate: 1.10%

Run 1: Report of PCC-Allegro — Data Link

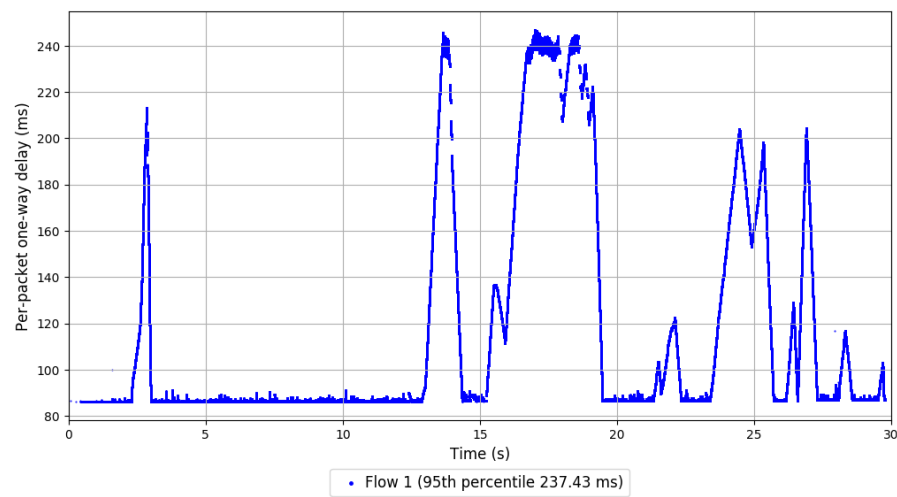
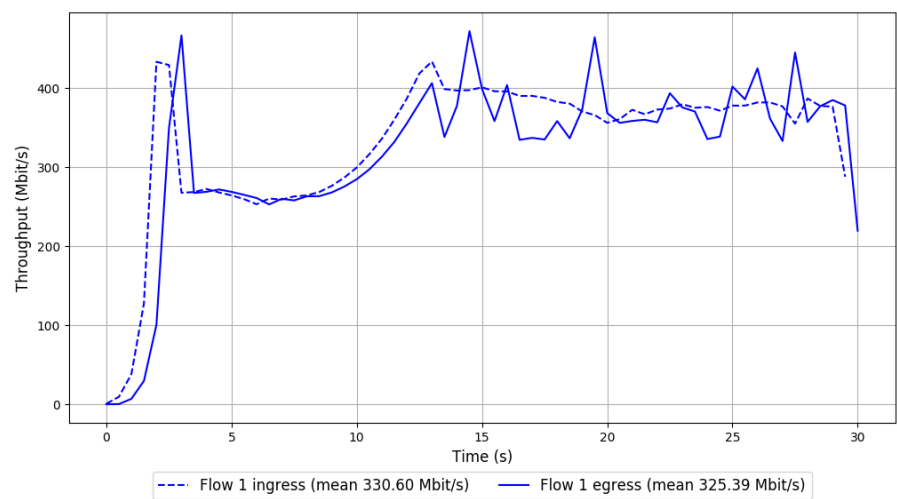


Run 2: Statistics of PCC-Allegro

Start at: 2019-10-02 18:12:39
End at: 2019-10-02 18:13:09
Local clock offset: -21.461 ms
Remote clock offset: 17.587 ms

Below is generated by plot.py at 2019-10-02 22:10:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 325.39 Mbit/s
95th percentile per-packet one-way delay: 237.433 ms
Loss rate: 2.14%
-- Flow 1:
Average throughput: 325.39 Mbit/s
95th percentile per-packet one-way delay: 237.433 ms
Loss rate: 2.14%

Run 2: Report of PCC-Allegro — Data Link

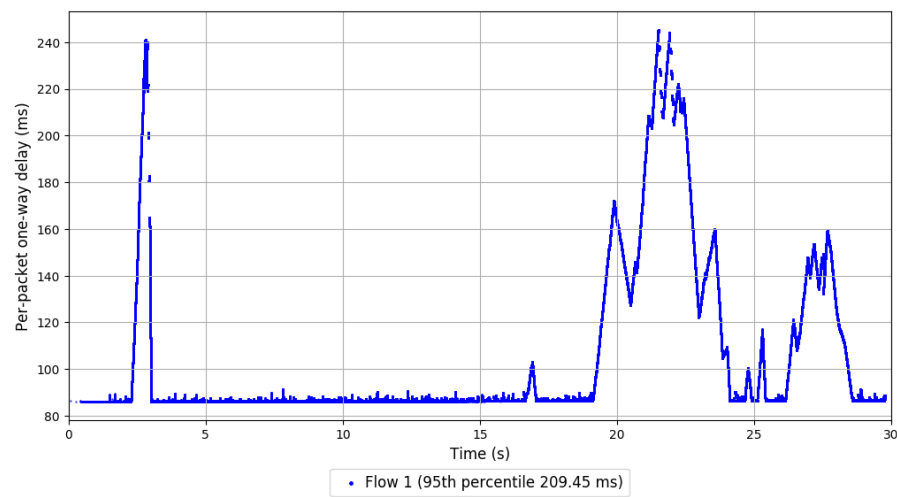
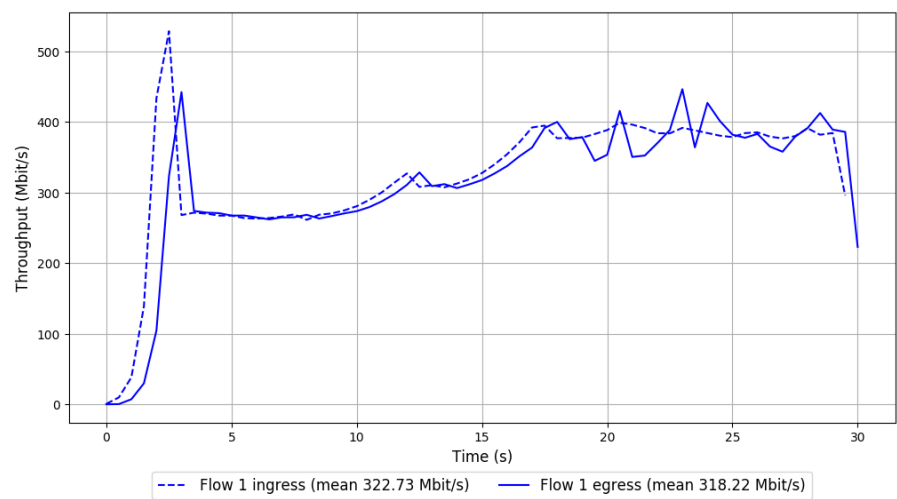


Run 3: Statistics of PCC-Allegro

Start at: 2019-10-02 18:47:36
End at: 2019-10-02 18:48:06
Local clock offset: -34.667 ms
Remote clock offset: 12.679 ms

Below is generated by plot.py at 2019-10-02 22:11:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 318.22 Mbit/s
95th percentile per-packet one-way delay: 209.453 ms
Loss rate: 1.96%
-- Flow 1:
Average throughput: 318.22 Mbit/s
95th percentile per-packet one-way delay: 209.453 ms
Loss rate: 1.96%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-10-02 19:22:13

End at: 2019-10-02 19:22:43

Local clock offset: -9.66 ms

Remote clock offset: 6.143 ms

Below is generated by plot.py at 2019-10-02 22:16:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 300.76 Mbit/s

95th percentile per-packet one-way delay: 178.721 ms

Loss rate: 0.83%

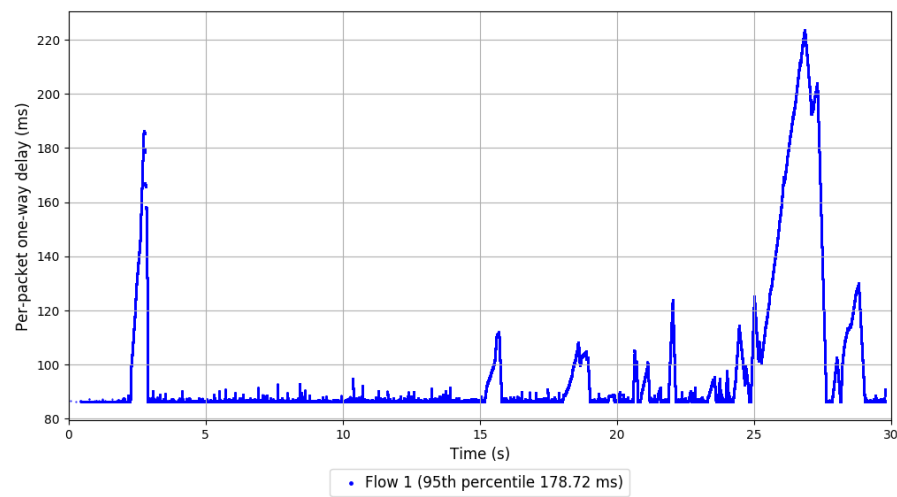
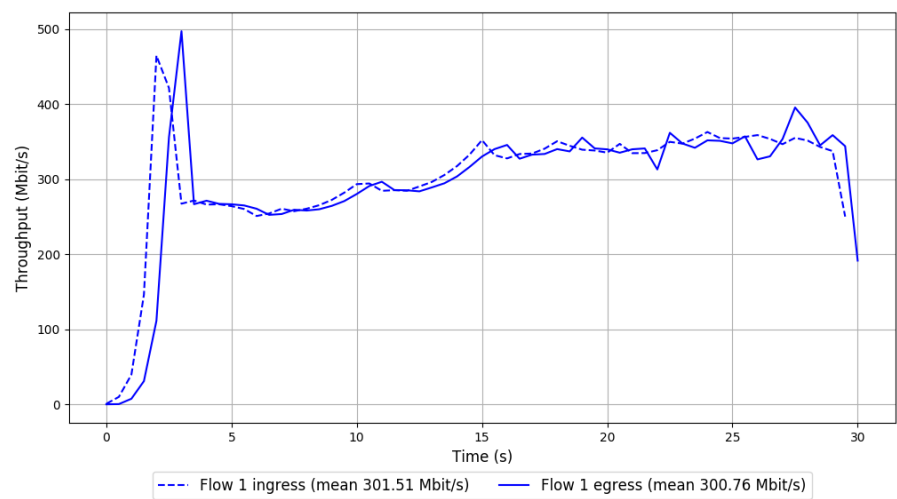
-- Flow 1:

Average throughput: 300.76 Mbit/s

95th percentile per-packet one-way delay: 178.721 ms

Loss rate: 0.83%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-10-02 19:56:53

End at: 2019-10-02 19:57:23

Local clock offset: -4.443 ms

Remote clock offset: 1.982 ms

Below is generated by plot.py at 2019-10-02 22:18:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 322.92 Mbit/s

95th percentile per-packet one-way delay: 230.385 ms

Loss rate: 3.14%

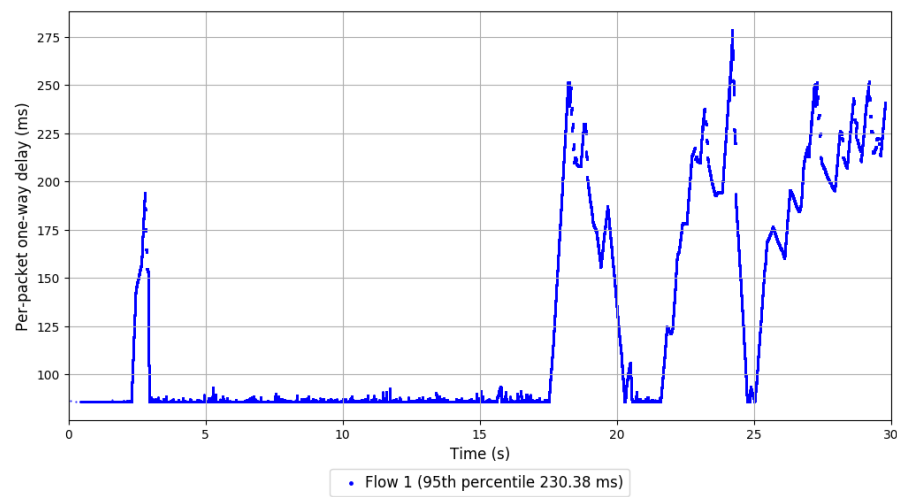
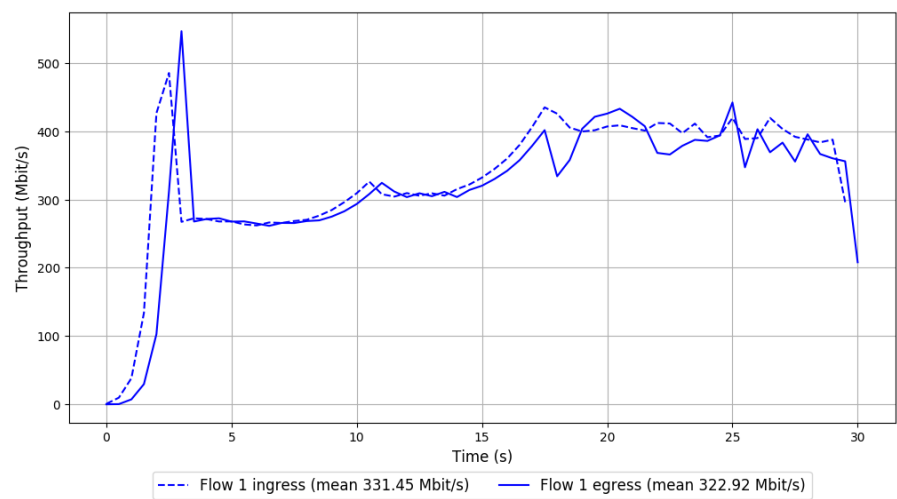
-- Flow 1:

Average throughput: 322.92 Mbit/s

95th percentile per-packet one-way delay: 230.385 ms

Loss rate: 3.14%

Run 5: Report of PCC-Allegro — Data Link

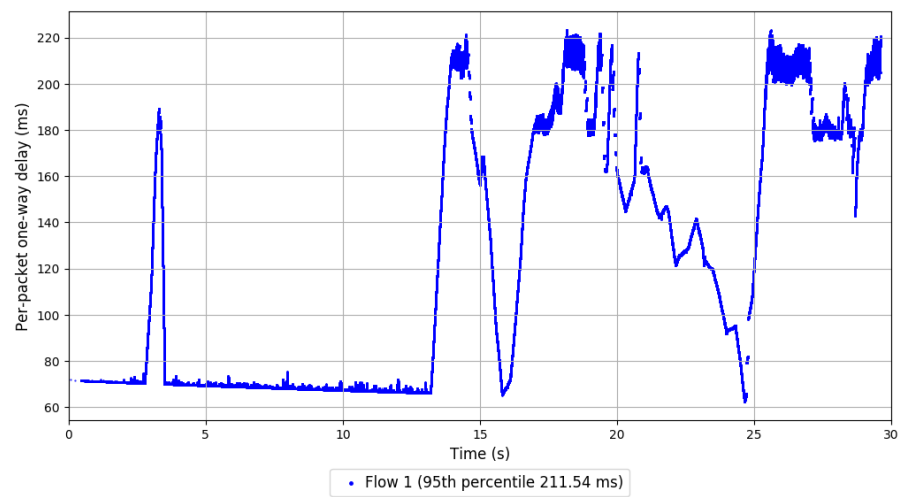
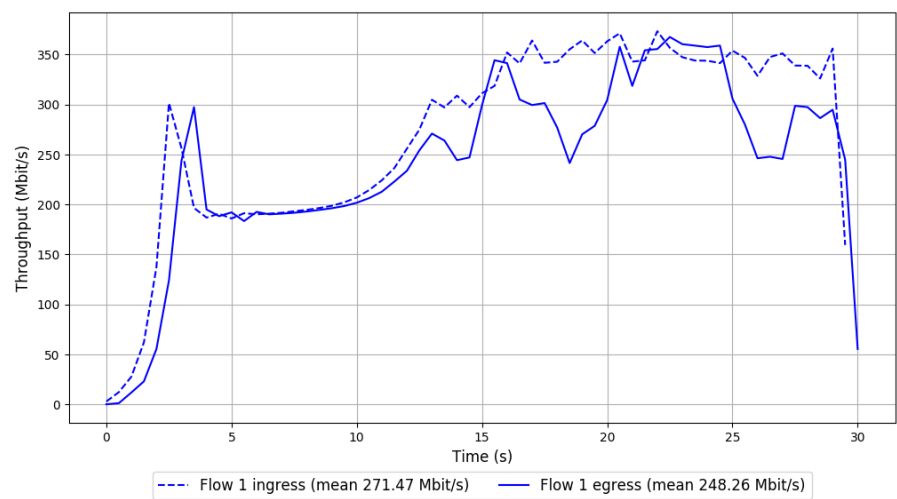


Run 1: Statistics of PCC-Expr

Start at: 2019-10-02 17:33:09
End at: 2019-10-02 17:33:39
Local clock offset: -50.671 ms
Remote clock offset: 9.296 ms

Below is generated by plot.py at 2019-10-02 22:18:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 248.26 Mbit/s
95th percentile per-packet one-way delay: 211.536 ms
Loss rate: 9.12%
-- Flow 1:
Average throughput: 248.26 Mbit/s
95th percentile per-packet one-way delay: 211.536 ms
Loss rate: 9.12%

Run 1: Report of PCC-Expr — Data Link

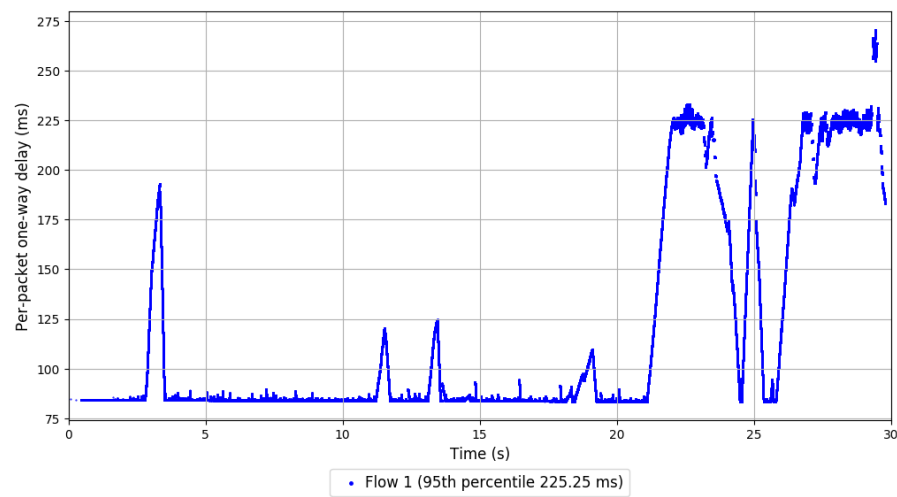
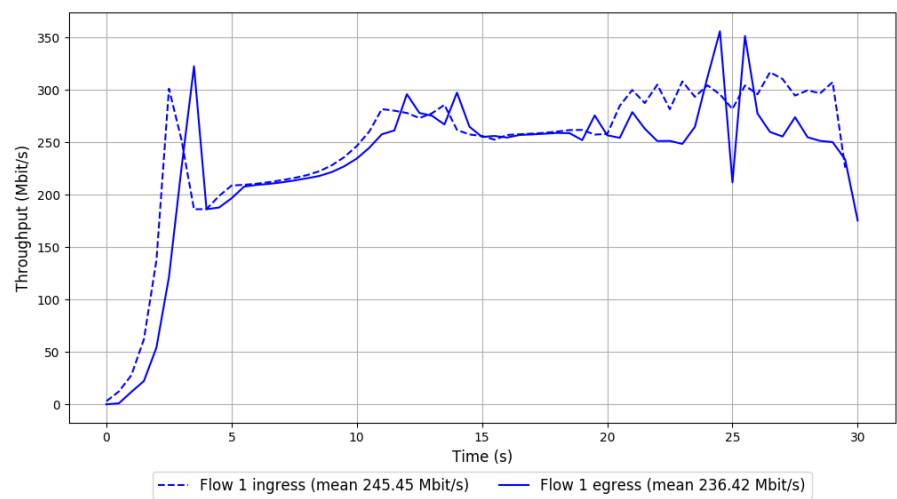


Run 2: Statistics of PCC-Expr

Start at: 2019-10-02 18:07:38
End at: 2019-10-02 18:08:08
Local clock offset: -27.237 ms
Remote clock offset: 16.188 ms

Below is generated by plot.py at 2019-10-02 22:18:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 236.42 Mbit/s
95th percentile per-packet one-way delay: 225.245 ms
Loss rate: 4.24%
-- Flow 1:
Average throughput: 236.42 Mbit/s
95th percentile per-packet one-way delay: 225.245 ms
Loss rate: 4.24%

Run 2: Report of PCC-Expr — Data Link

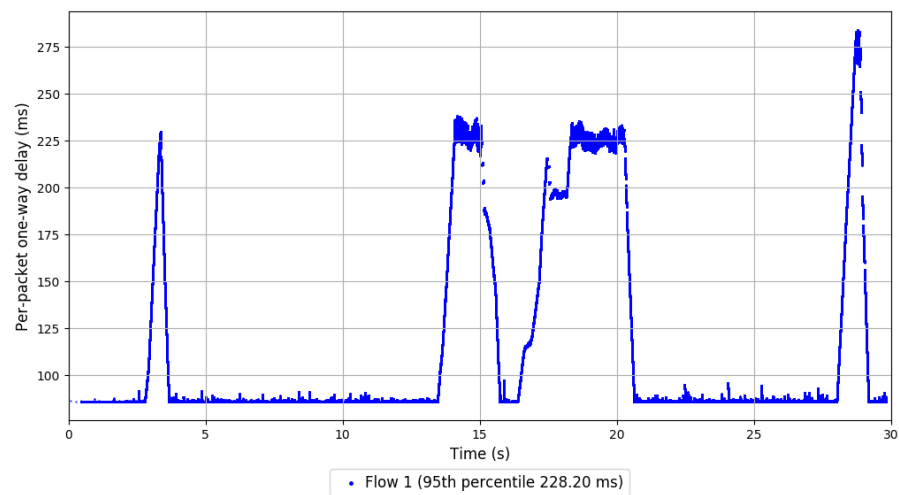
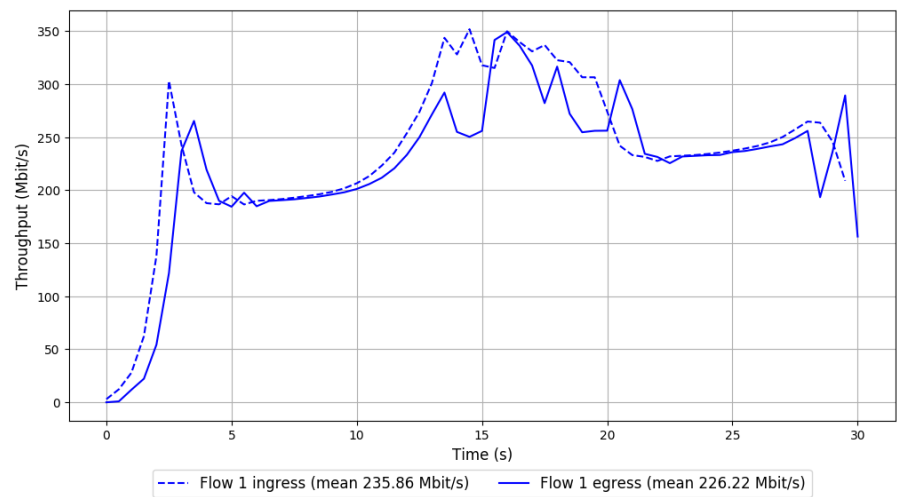


Run 3: Statistics of PCC-Expr

Start at: 2019-10-02 18:42:37
End at: 2019-10-02 18:43:07
Local clock offset: -29.513 ms
Remote clock offset: 14.946 ms

Below is generated by plot.py at 2019-10-02 22:18:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 226.22 Mbit/s
95th percentile per-packet one-way delay: 228.204 ms
Loss rate: 4.64%
-- Flow 1:
Average throughput: 226.22 Mbit/s
95th percentile per-packet one-way delay: 228.204 ms
Loss rate: 4.64%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-10-02 19:17:15

End at: 2019-10-02 19:17:45

Local clock offset: -9.471 ms

Remote clock offset: 7.189 ms

Below is generated by plot.py at 2019-10-02 22:18:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.19 Mbit/s

95th percentile per-packet one-way delay: 165.440 ms

Loss rate: 1.02%

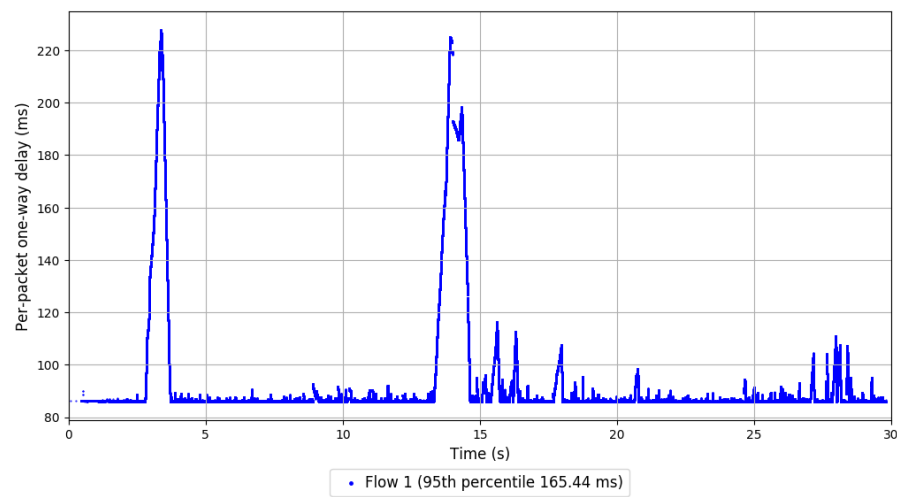
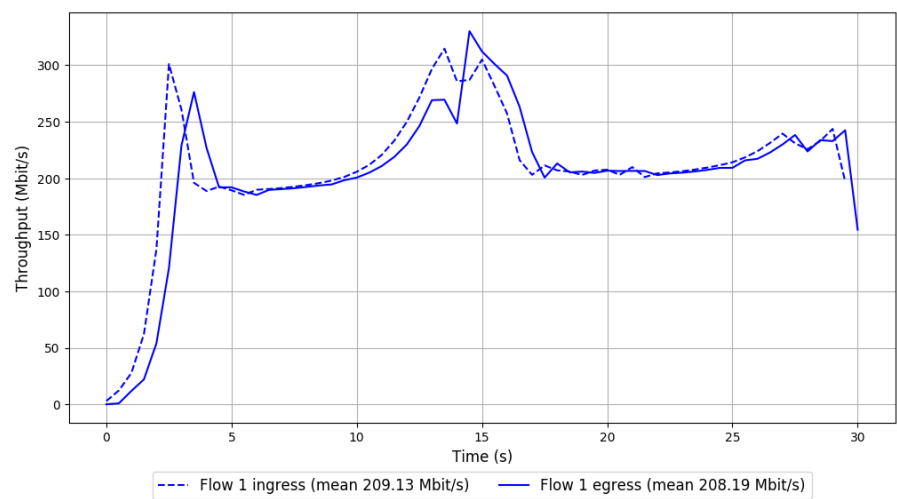
-- Flow 1:

Average throughput: 208.19 Mbit/s

95th percentile per-packet one-way delay: 165.440 ms

Loss rate: 1.02%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-10-02 19:51:54

End at: 2019-10-02 19:52:25

Local clock offset: -4.09 ms

Remote clock offset: 2.662 ms

Below is generated by plot.py at 2019-10-02 22:19:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.42 Mbit/s

95th percentile per-packet one-way delay: 121.164 ms

Loss rate: 0.79%

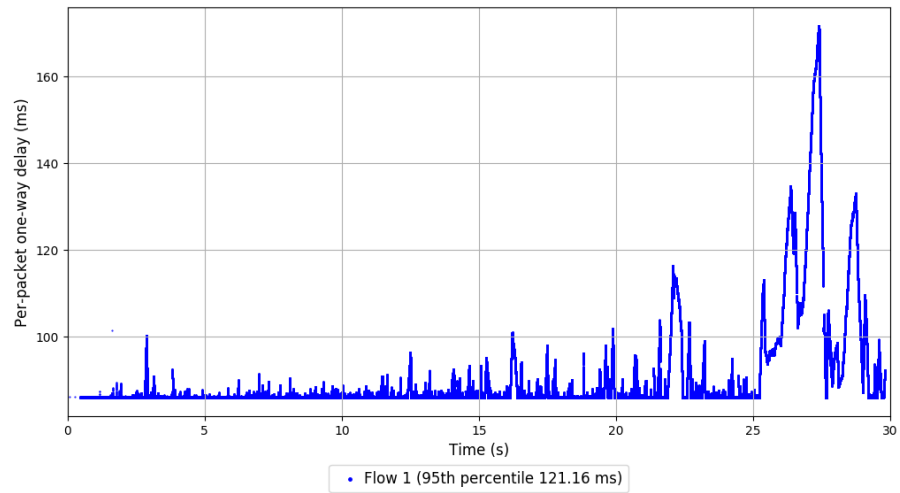
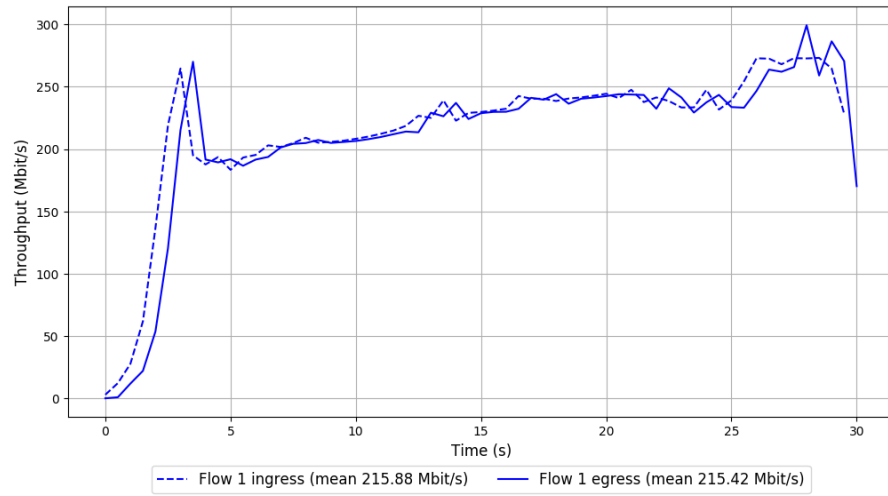
-- Flow 1:

Average throughput: 215.42 Mbit/s

95th percentile per-packet one-way delay: 121.164 ms

Loss rate: 0.79%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

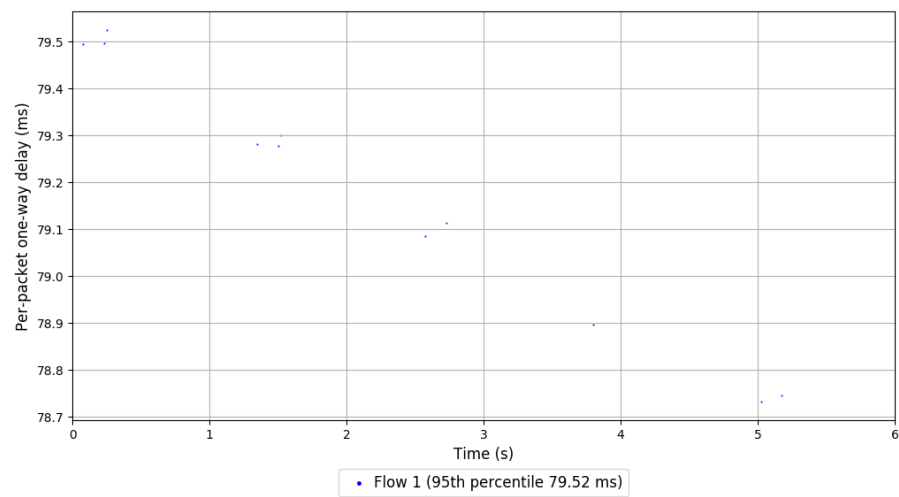
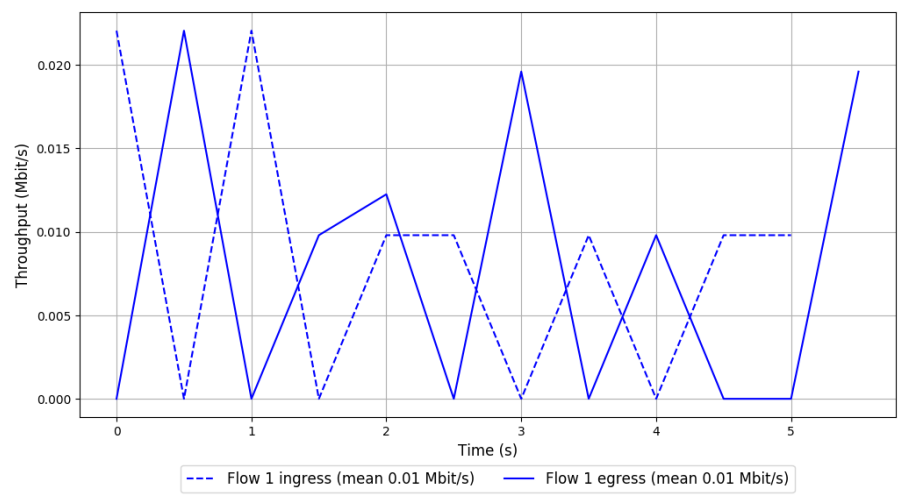
Start at: 2019-10-02 17:28:55

End at: 2019-10-02 17:29:25

Local clock offset: -33.741 ms

Remote clock offset: 6.018 ms

Run 1: Report of QUIC Cubic — Data Link

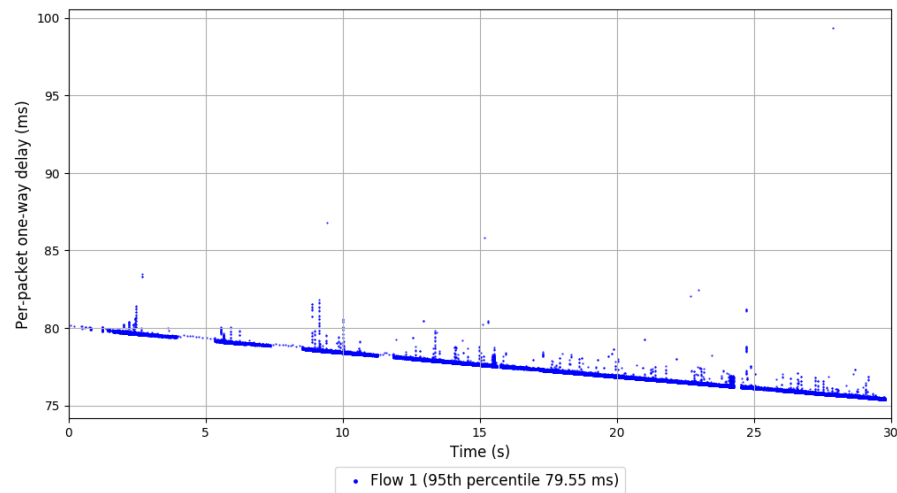
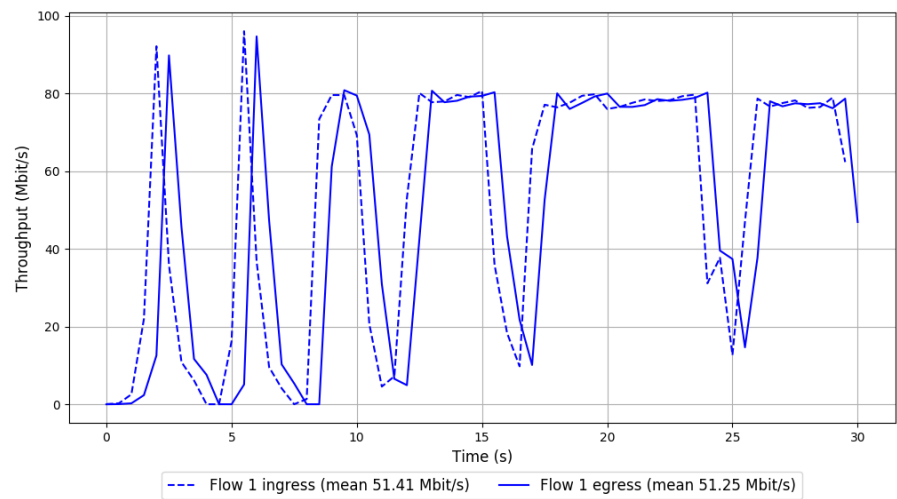


Run 2: Statistics of QUIC Cubic

Start at: 2019-10-02 18:03:23
End at: 2019-10-02 18:03:53
Local clock offset: -54.649 ms
Remote clock offset: 16.989 ms

Below is generated by plot.py at 2019-10-02 22:19:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 51.25 Mbit/s
95th percentile per-packet one-way delay: 79.547 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 51.25 Mbit/s
95th percentile per-packet one-way delay: 79.547 ms
Loss rate: 0.89%

Run 2: Report of QUIC Cubic — Data Link

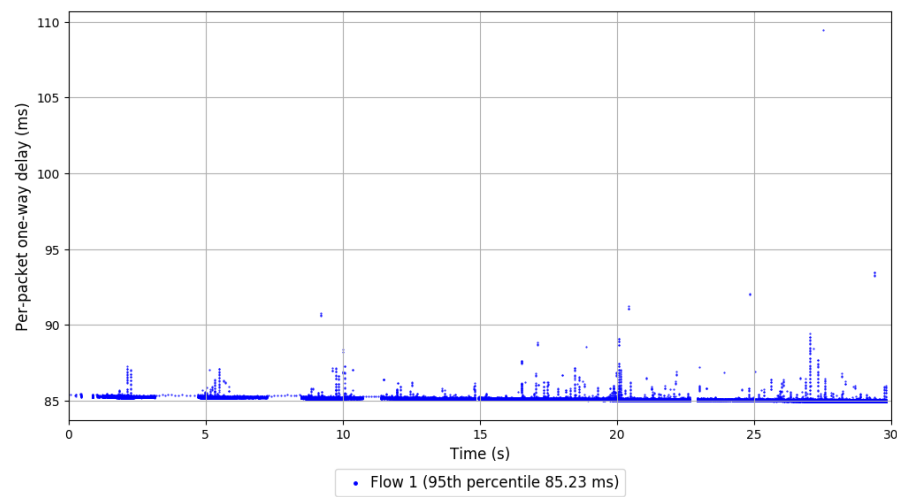
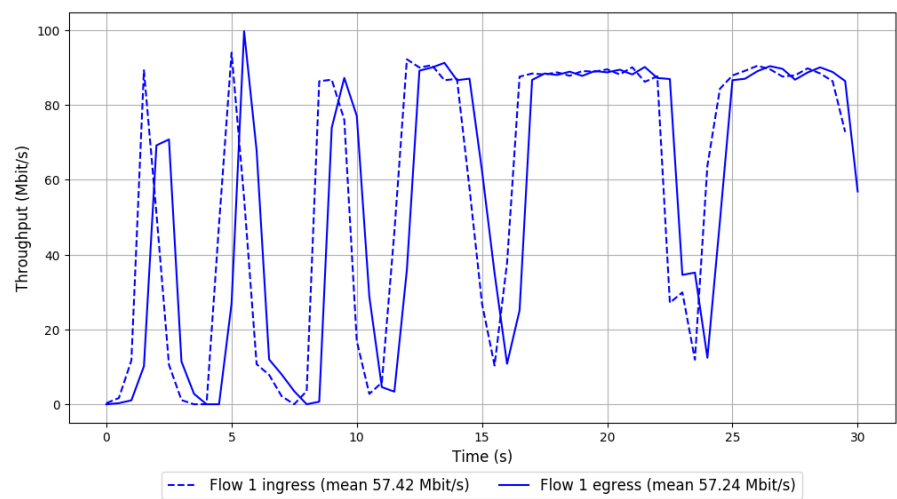


Run 3: Statistics of QUIC Cubic

Start at: 2019-10-02 18:38:21
End at: 2019-10-02 18:38:51
Local clock offset: -25.891 ms
Remote clock offset: 19.707 ms

Below is generated by plot.py at 2019-10-02 22:19:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 57.24 Mbit/s
95th percentile per-packet one-way delay: 85.233 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 57.24 Mbit/s
95th percentile per-packet one-way delay: 85.233 ms
Loss rate: 0.89%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-10-02 19:12:54

End at: 2019-10-02 19:13:24

Local clock offset: -9.662 ms

Remote clock offset: 9.525 ms

Below is generated by plot.py at 2019-10-02 22:19:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.89 Mbit/s

95th percentile per-packet one-way delay: 85.920 ms

Loss rate: 0.90%

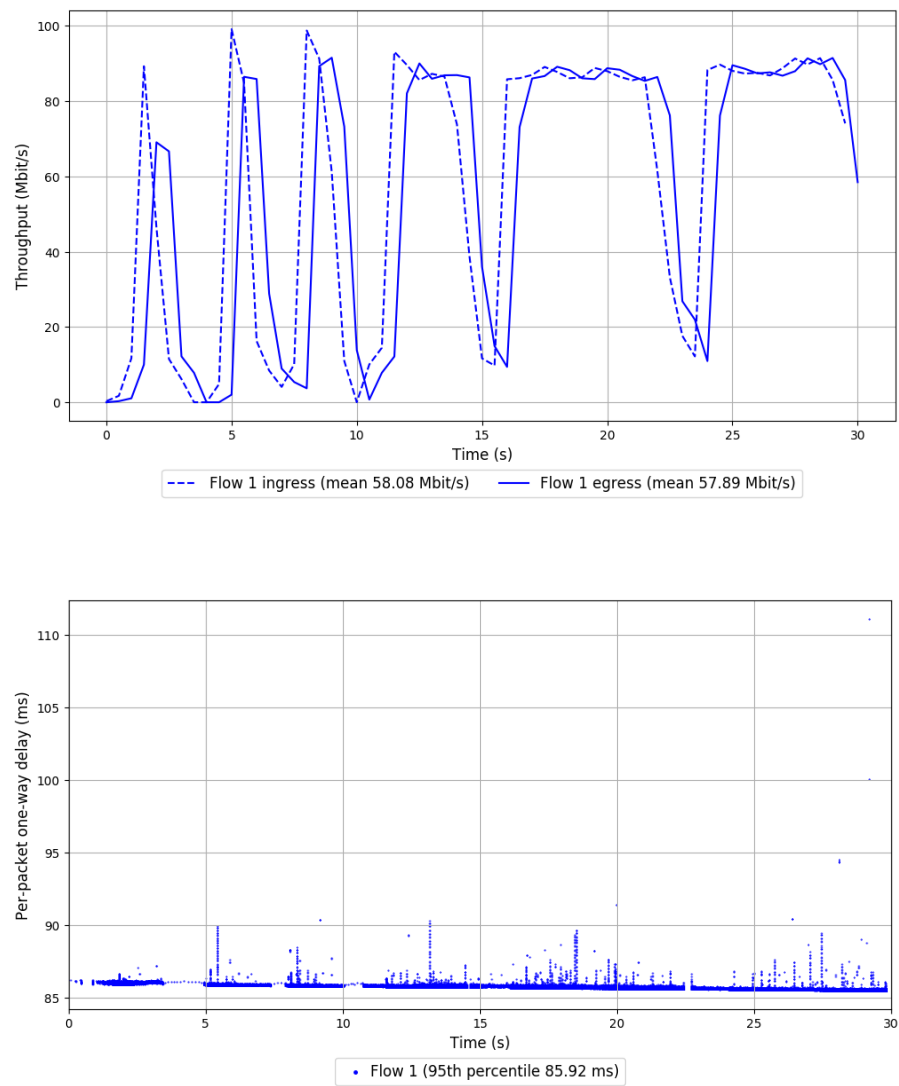
-- Flow 1:

Average throughput: 57.89 Mbit/s

95th percentile per-packet one-way delay: 85.920 ms

Loss rate: 0.90%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-10-02 19:47:38

End at: 2019-10-02 19:48:08

Local clock offset: -3.737 ms

Remote clock offset: 3.832 ms

Below is generated by plot.py at 2019-10-02 22:19:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.93 Mbit/s

95th percentile per-packet one-way delay: 85.750 ms

Loss rate: 0.94%

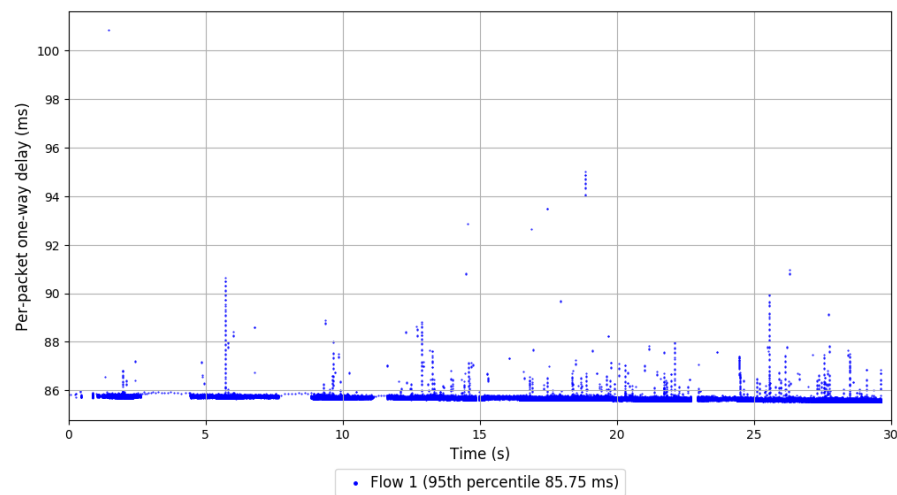
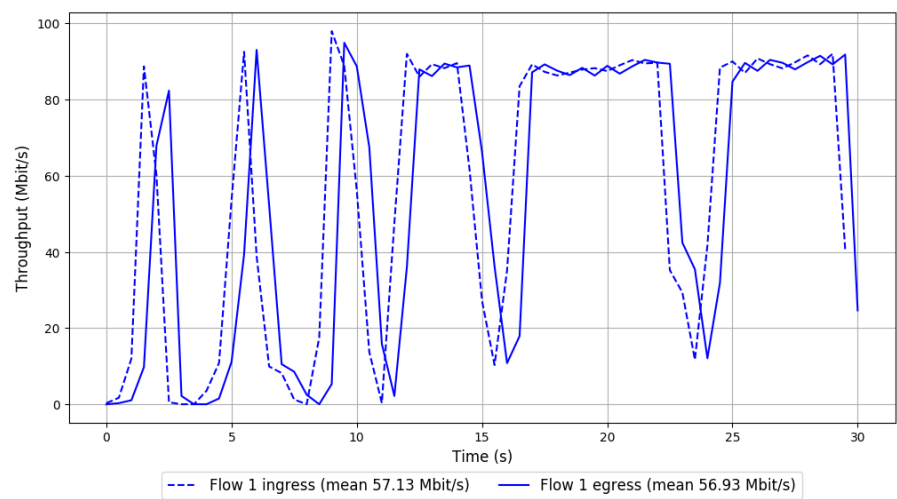
-- Flow 1:

Average throughput: 56.93 Mbit/s

95th percentile per-packet one-way delay: 85.750 ms

Loss rate: 0.94%

Run 5: Report of QUIC Cubic — Data Link

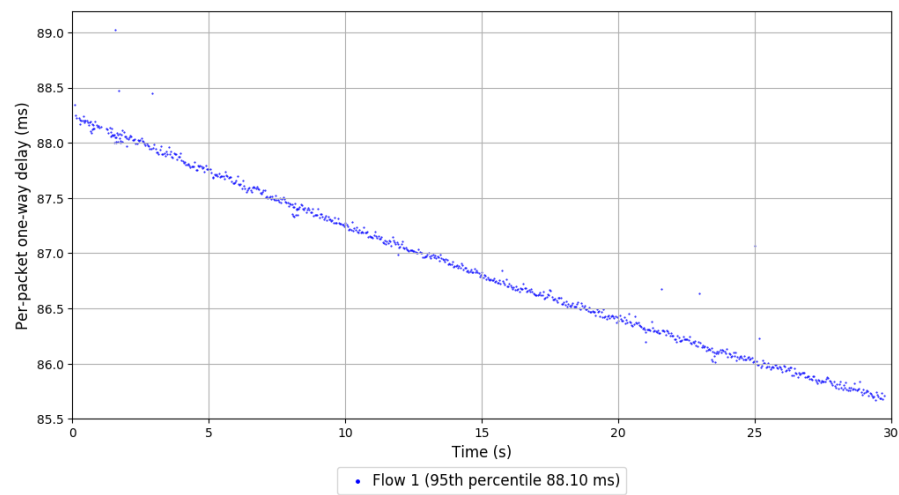
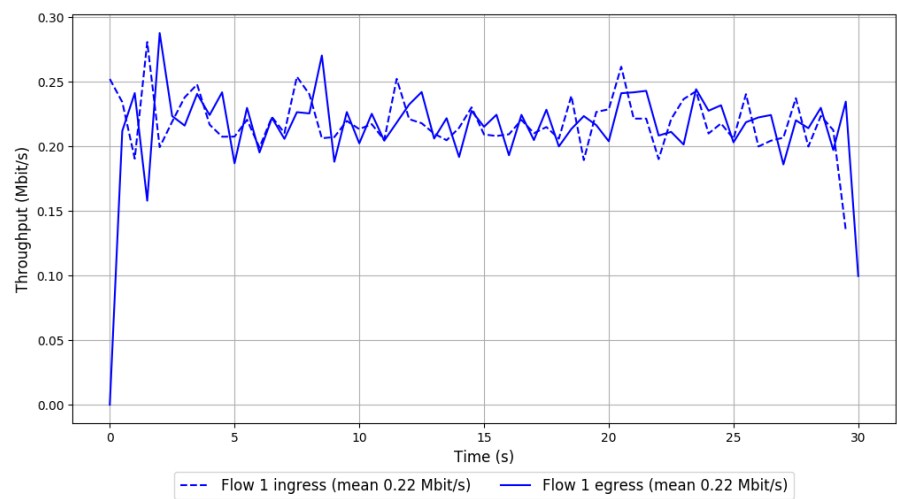


Run 1: Statistics of SCReAM

Start at: 2019-10-02 17:37:02
End at: 2019-10-02 17:37:32
Local clock offset: -24.355 ms
Remote clock offset: 8.358 ms

Below is generated by plot.py at 2019-10-02 22:19:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 88.097 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 88.097 ms
Loss rate: 0.52%

Run 1: Report of SReAM — Data Link

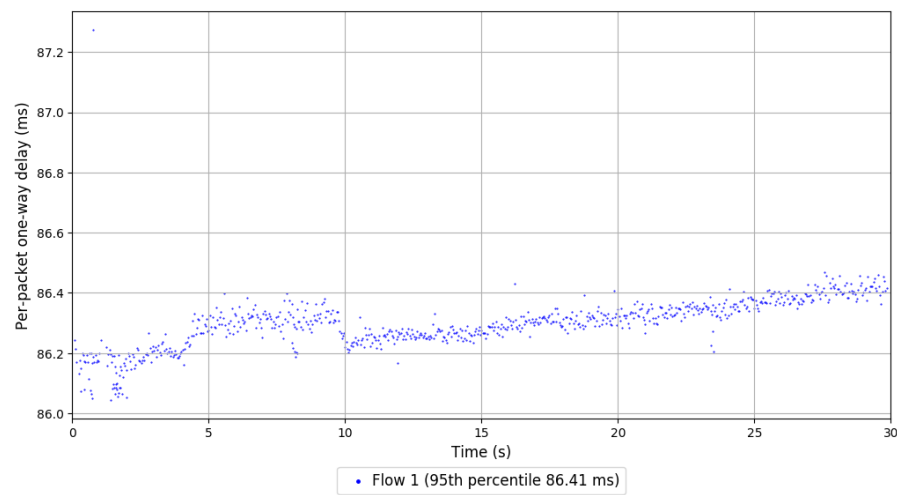
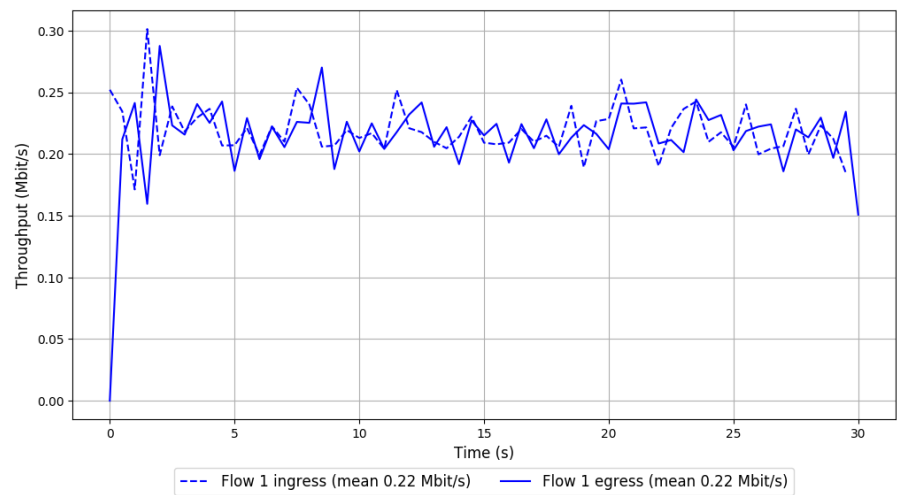


Run 2: Statistics of SCReAM

Start at: 2019-10-02 18:11:30
End at: 2019-10-02 18:12:00
Local clock offset: -21.417 ms
Remote clock offset: 17.065 ms

Below is generated by plot.py at 2019-10-02 22:19:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.410 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.410 ms
Loss rate: 0.51%

Run 2: Report of SReAM — Data Link

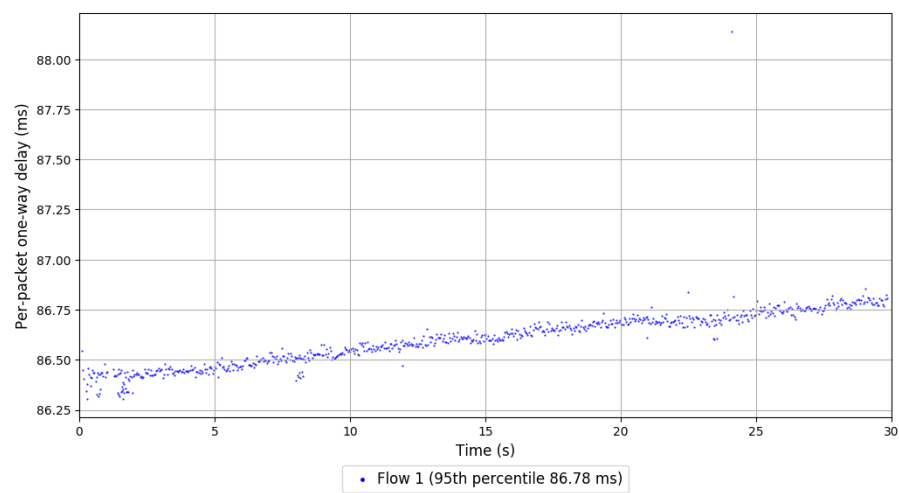
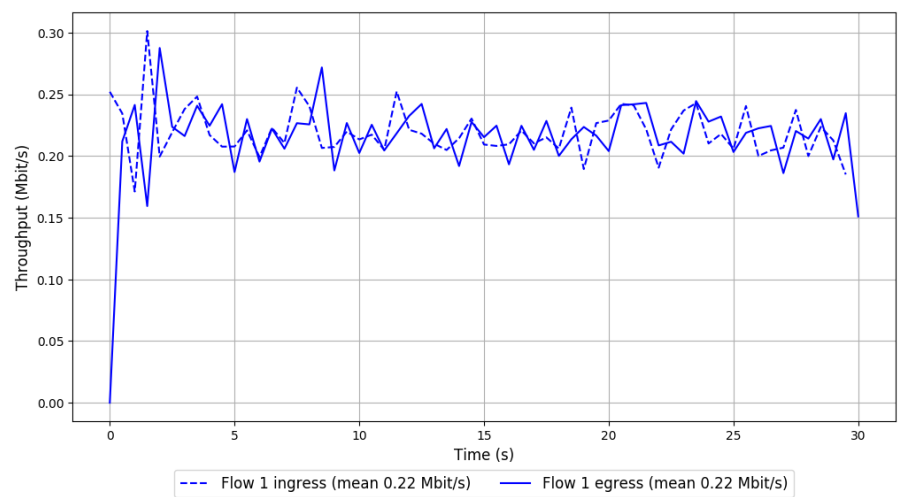


Run 3: Statistics of SCReAM

Start at: 2019-10-02 18:46:27
End at: 2019-10-02 18:46:57
Local clock offset: -33.157 ms
Remote clock offset: 12.965 ms

Below is generated by plot.py at 2019-10-02 22:19:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.783 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.783 ms
Loss rate: 0.51%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-10-02 19:21:04

End at: 2019-10-02 19:21:34

Local clock offset: -9.391 ms

Remote clock offset: 6.3 ms

Below is generated by plot.py at 2019-10-02 22:19:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.486 ms

Loss rate: 0.51%

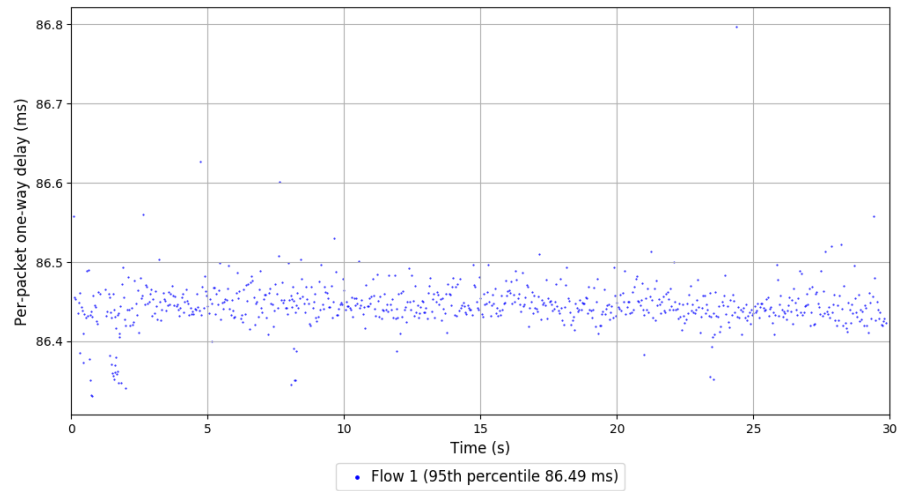
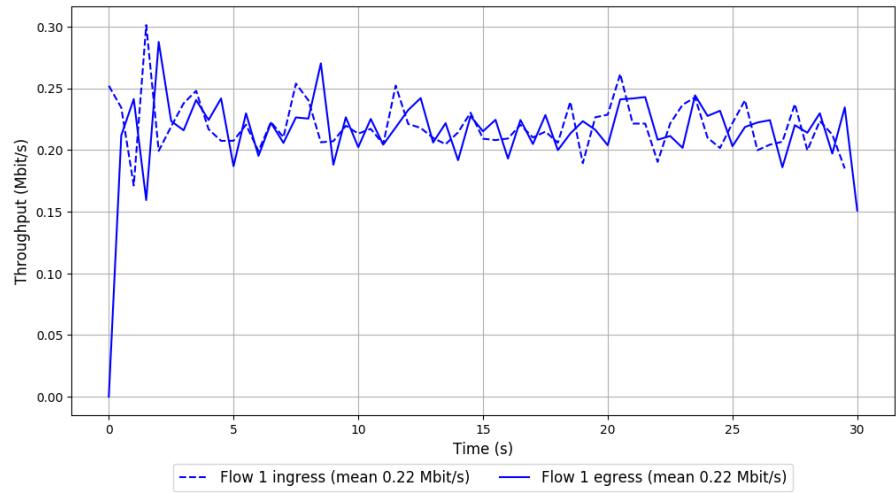
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.486 ms

Loss rate: 0.51%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-10-02 19:55:44

End at: 2019-10-02 19:56:14

Local clock offset: -4.327 ms

Remote clock offset: 2.051 ms

Below is generated by plot.py at 2019-10-02 22:19:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.869 ms

Loss rate: 0.51%

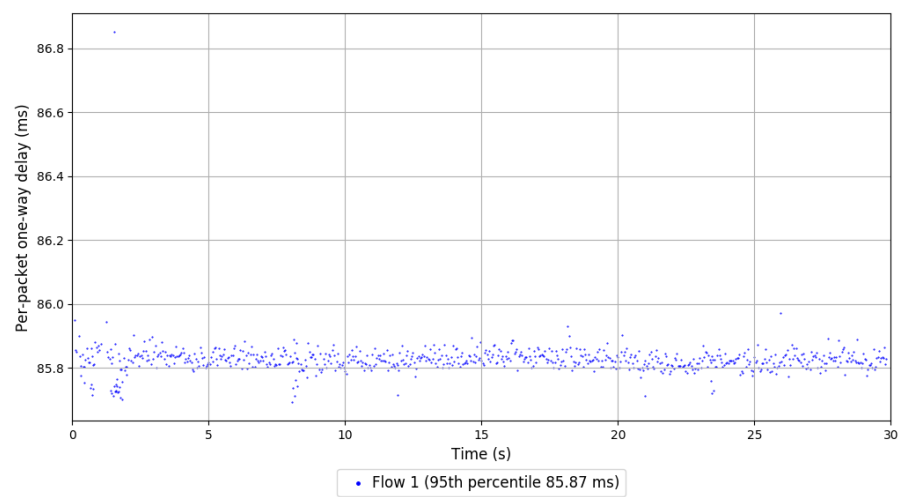
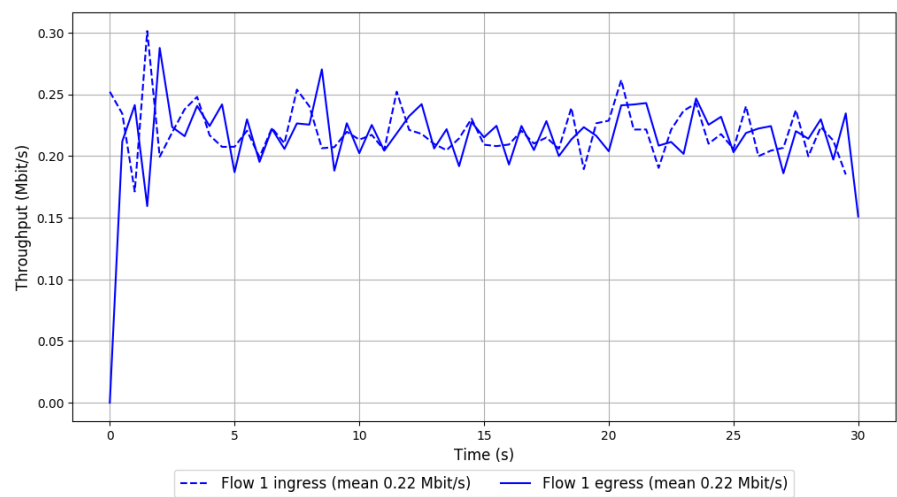
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.869 ms

Loss rate: 0.51%

Run 5: Report of SReAM — Data Link

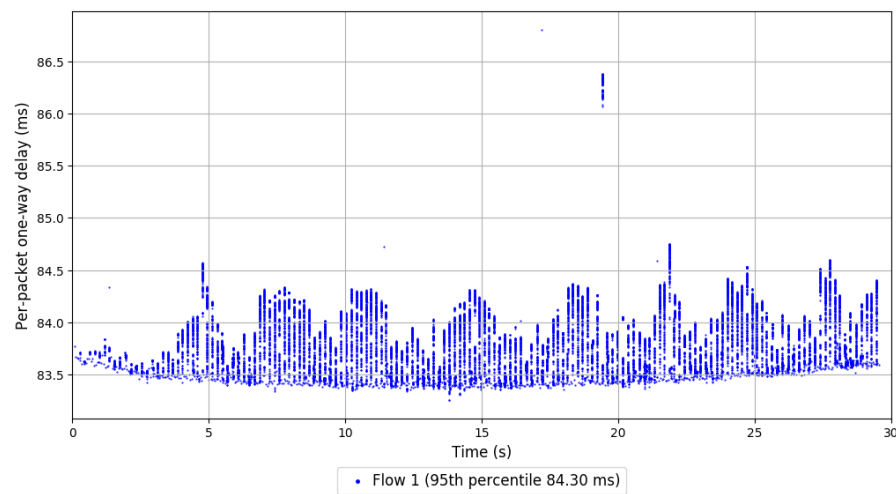
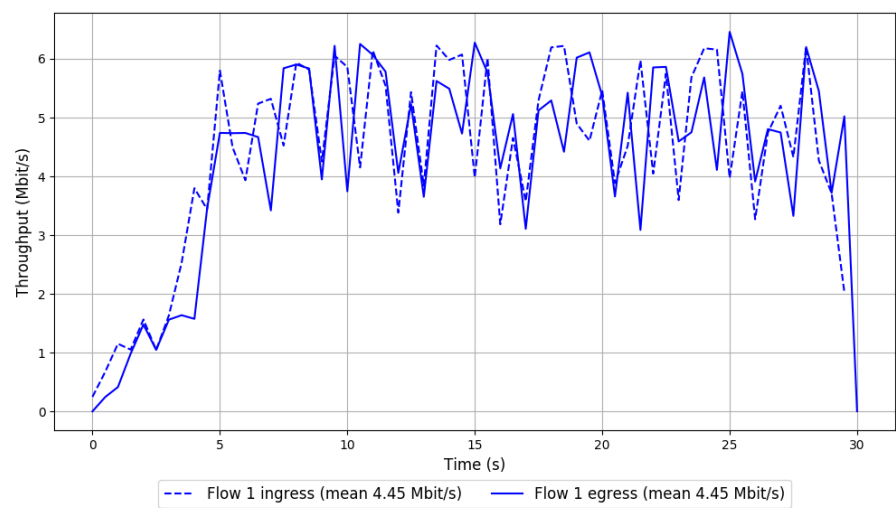


Run 1: Statistics of Sprout

Start at: 2019-10-02 17:34:42
End at: 2019-10-02 17:35:12
Local clock offset: -22.171 ms
Remote clock offset: 7.221 ms

Below is generated by plot.py at 2019-10-02 22:19:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.45 Mbit/s
95th percentile per-packet one-way delay: 84.302 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 4.45 Mbit/s
95th percentile per-packet one-way delay: 84.302 ms
Loss rate: 0.77%

Run 1: Report of Sprout — Data Link

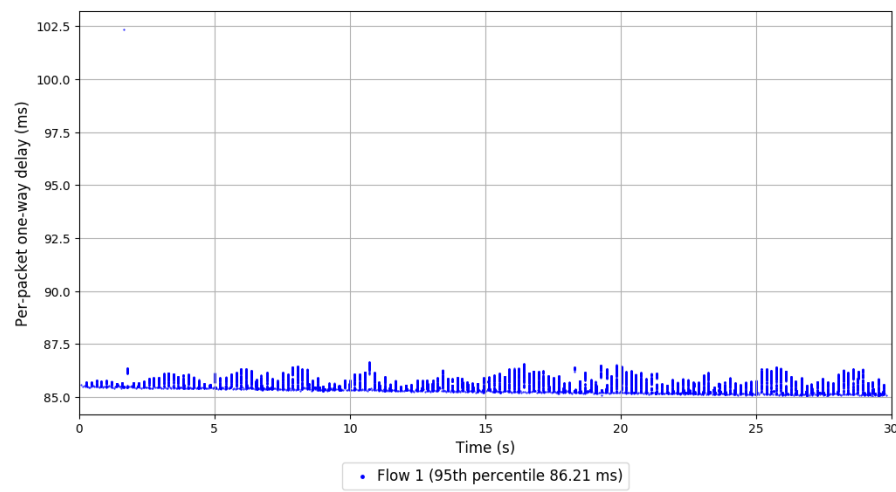
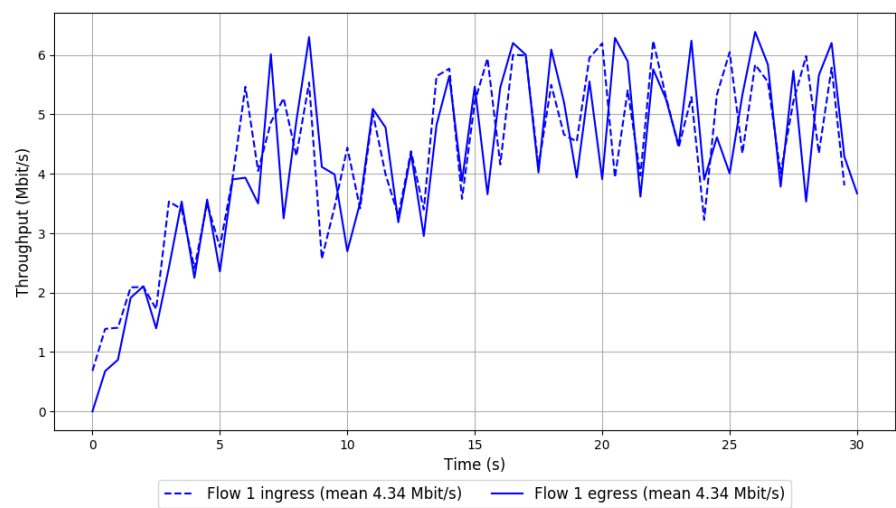


Run 2: Statistics of Sprout

Start at: 2019-10-02 18:09:09
End at: 2019-10-02 18:09:39
Local clock offset: -23.413 ms
Remote clock offset: 16.339 ms

Below is generated by plot.py at 2019-10-02 22:19:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 86.209 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 86.209 ms
Loss rate: 0.70%

Run 2: Report of Sprout — Data Link

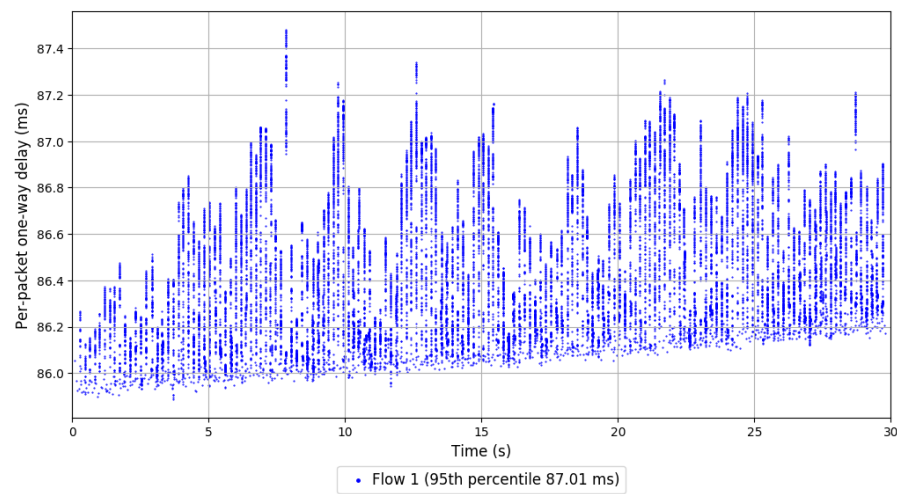
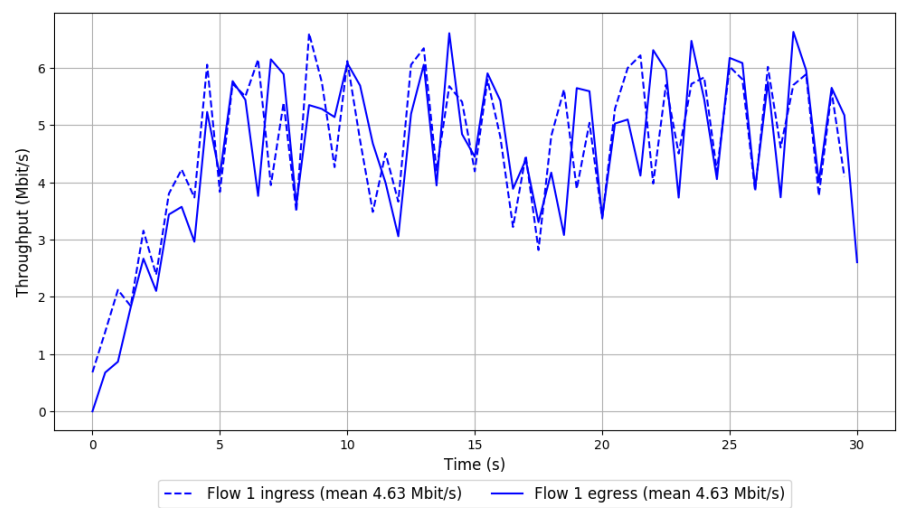


Run 3: Statistics of Sprout

Start at: 2019-10-02 18:44:07
End at: 2019-10-02 18:44:37
Local clock offset: -31.06 ms
Remote clock offset: 13.887 ms

Below is generated by plot.py at 2019-10-02 22:19:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.63 Mbit/s
95th percentile per-packet one-way delay: 87.008 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 4.63 Mbit/s
95th percentile per-packet one-way delay: 87.008 ms
Loss rate: 0.69%

Run 3: Report of Sprout — Data Link

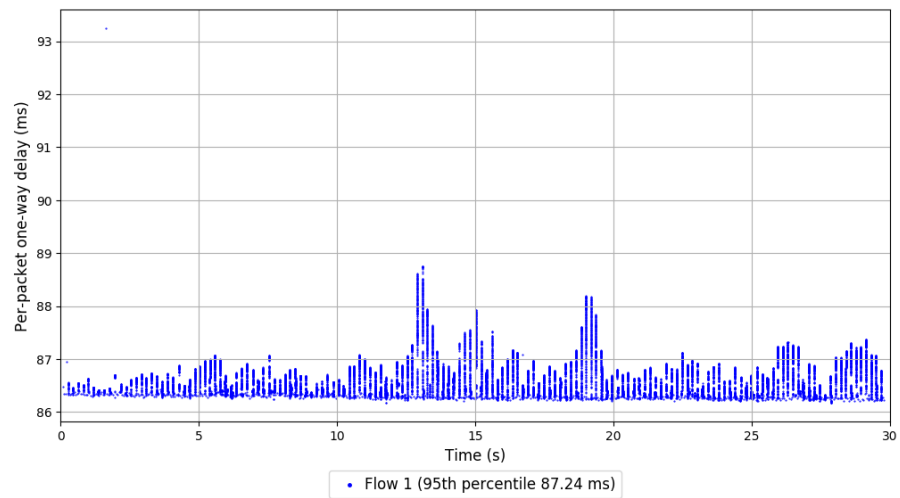
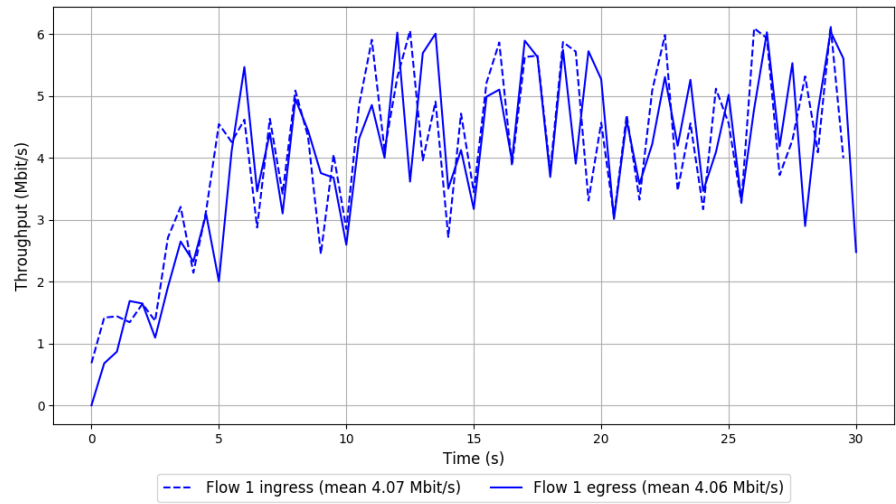


Run 4: Statistics of Sprout

Start at: 2019-10-02 19:18:43
End at: 2019-10-02 19:19:13
Local clock offset: -9.011 ms
Remote clock offset: 6.771 ms

Below is generated by plot.py at 2019-10-02 22:19:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.06 Mbit/s
95th percentile per-packet one-way delay: 87.237 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 4.06 Mbit/s
95th percentile per-packet one-way delay: 87.237 ms
Loss rate: 0.84%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-10-02 19:53:24

End at: 2019-10-02 19:53:54

Local clock offset: -4.113 ms

Remote clock offset: 2.464 ms

Below is generated by plot.py at 2019-10-02 22:19:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.64 Mbit/s

95th percentile per-packet one-way delay: 86.651 ms

Loss rate: 0.74%

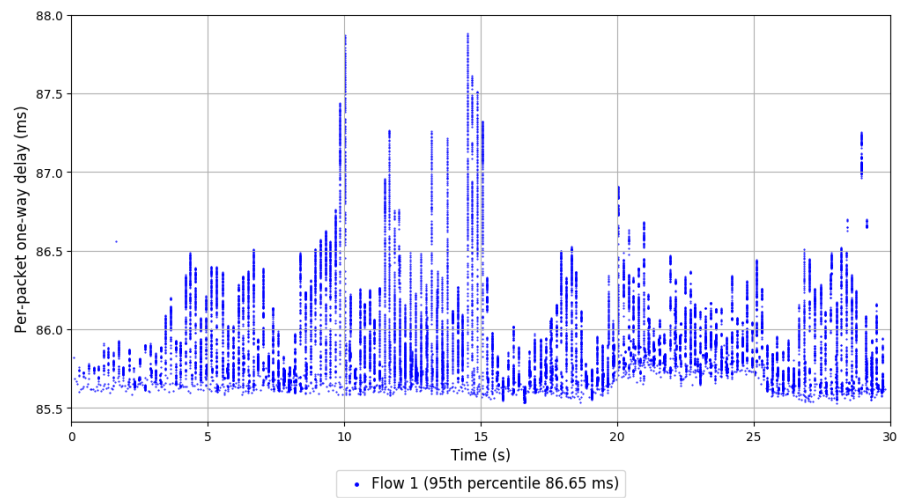
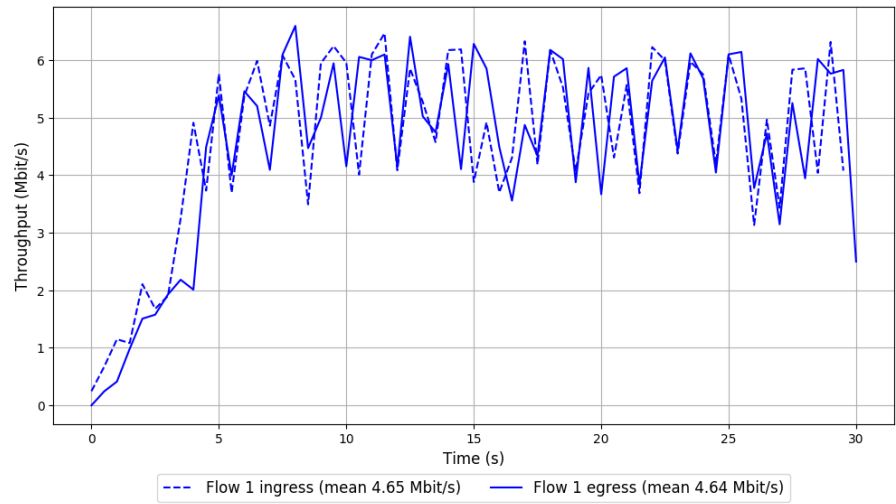
-- Flow 1:

Average throughput: 4.64 Mbit/s

95th percentile per-packet one-way delay: 86.651 ms

Loss rate: 0.74%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-10-02 17:27:26

End at: 2019-10-02 17:27:56

Local clock offset: -17.73 ms

Remote clock offset: 3.474 ms

Below is generated by plot.py at 2019-10-02 22:25:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.71 Mbit/s

95th percentile per-packet one-way delay: 97.217 ms

Loss rate: 0.63%

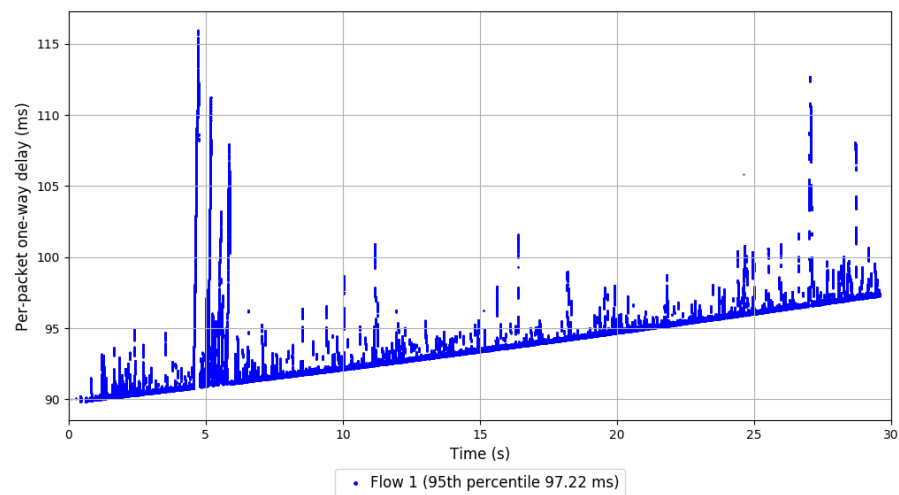
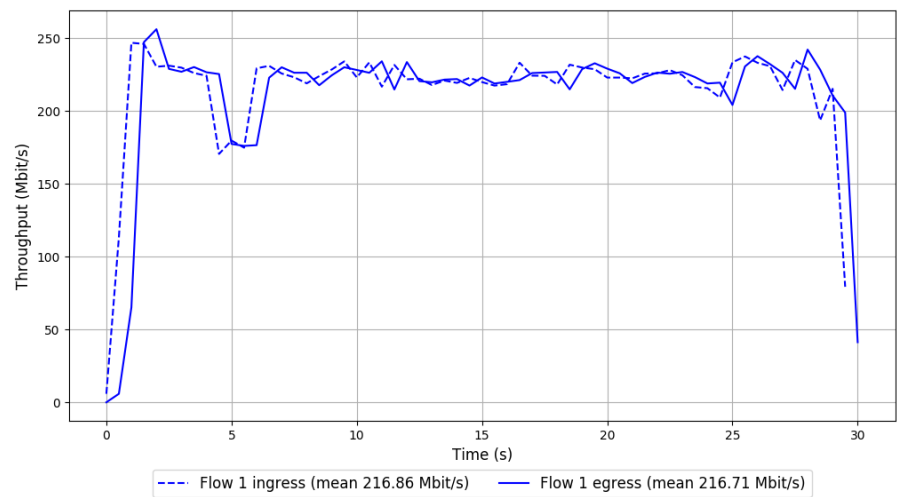
-- Flow 1:

Average throughput: 216.71 Mbit/s

95th percentile per-packet one-way delay: 97.217 ms

Loss rate: 0.63%

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

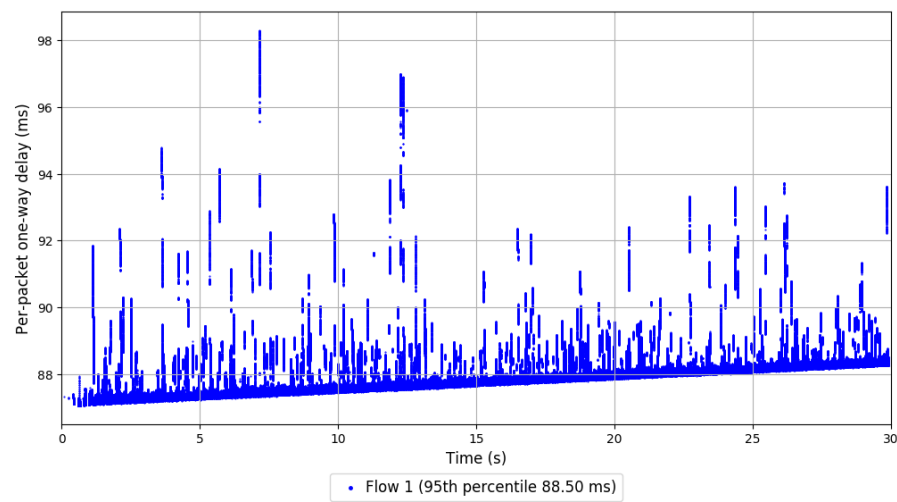
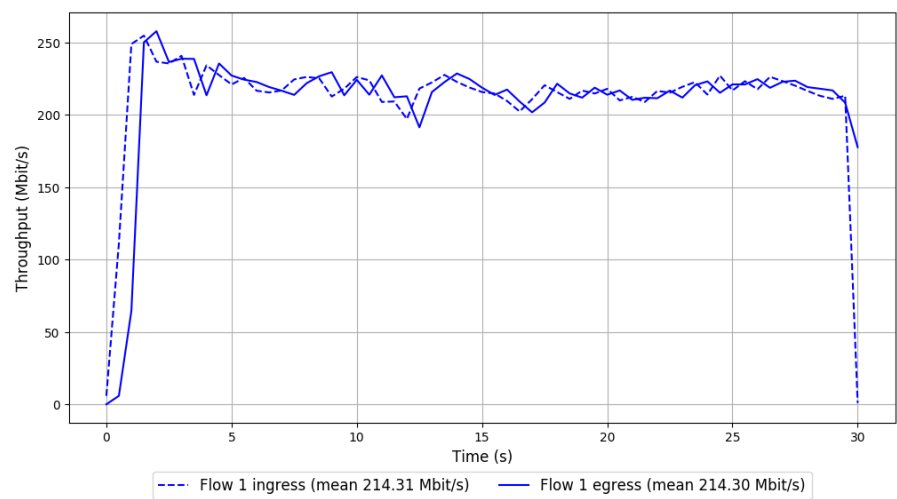


Run 2: Statistics of TaoVA-100x

Start at: 2019-10-02 18:01:54
End at: 2019-10-02 18:02:24
Local clock offset: -53.733 ms
Remote clock offset: 18.077 ms

Below is generated by plot.py at 2019-10-02 22:25:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 214.30 Mbit/s
95th percentile per-packet one-way delay: 88.497 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 214.30 Mbit/s
95th percentile per-packet one-way delay: 88.497 ms
Loss rate: 0.58%

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

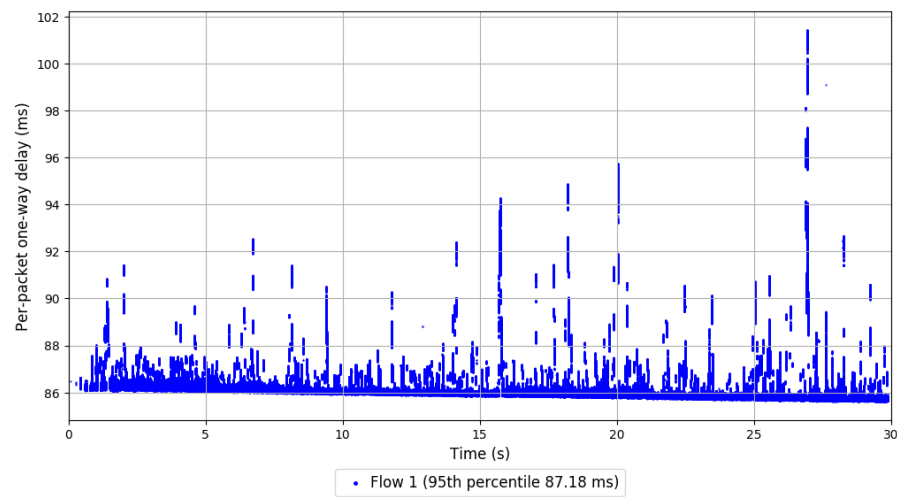
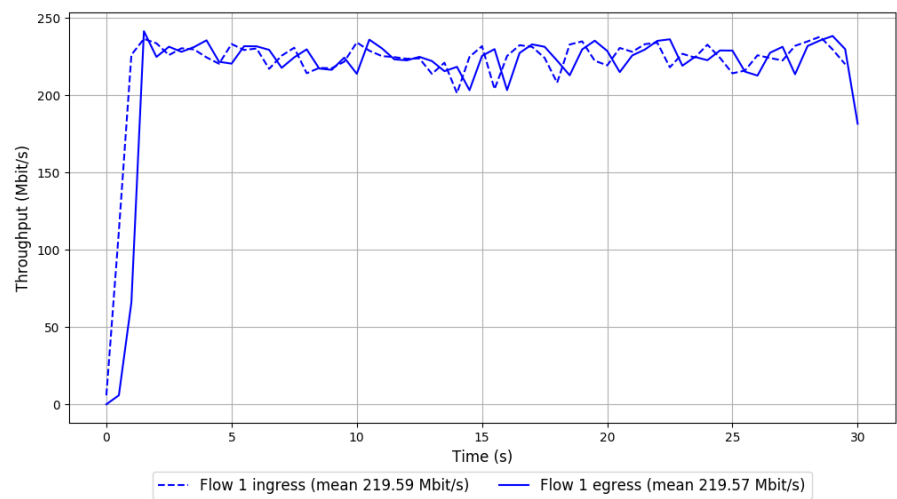


Run 3: Statistics of TaoVA-100x

Start at: 2019-10-02 18:36:50
End at: 2019-10-02 18:37:20
Local clock offset: -23.989 ms
Remote clock offset: 22.005 ms

Below is generated by plot.py at 2019-10-02 22:25:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 219.57 Mbit/s
95th percentile per-packet one-way delay: 87.178 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 219.57 Mbit/s
95th percentile per-packet one-way delay: 87.178 ms
Loss rate: 0.59%

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

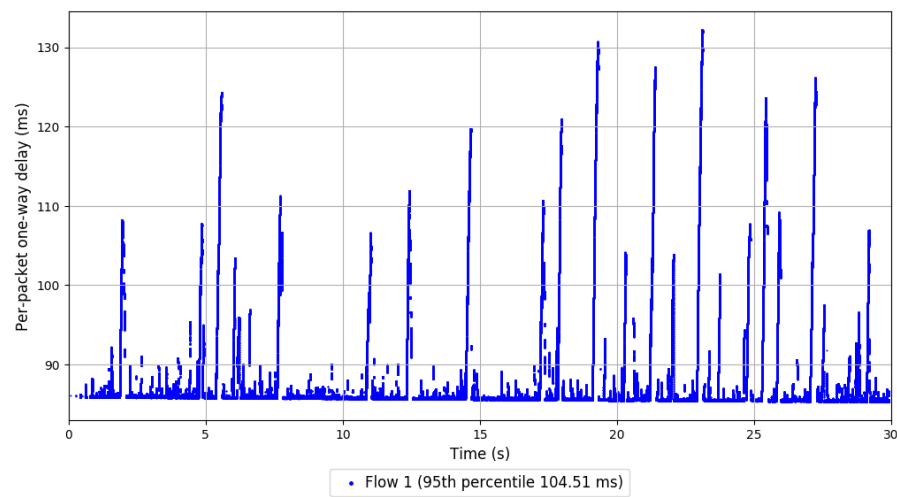
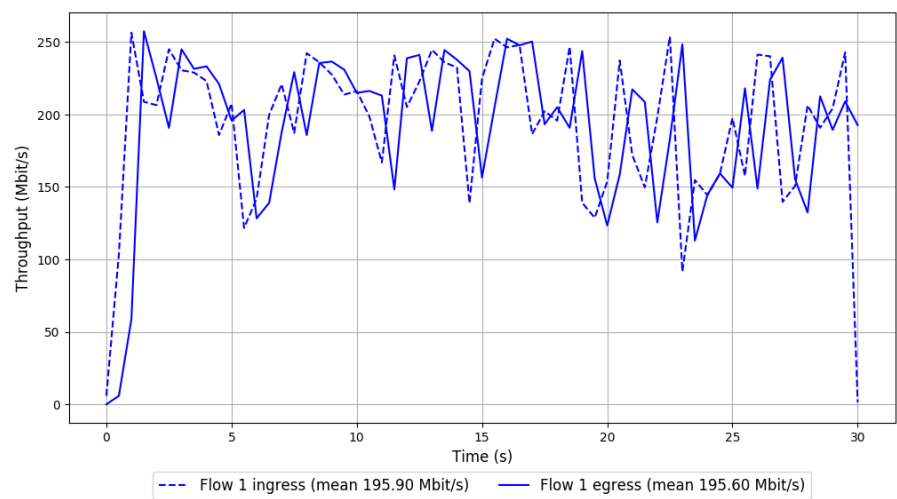


Run 4: Statistics of TaoVA-100x

Start at: 2019-10-02 19:11:26
End at: 2019-10-02 19:11:56
Local clock offset: -10.234 ms
Remote clock offset: 10.532 ms

Below is generated by plot.py at 2019-10-02 22:25:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 195.60 Mbit/s
95th percentile per-packet one-way delay: 104.508 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 195.60 Mbit/s
95th percentile per-packet one-way delay: 104.508 ms
Loss rate: 0.73%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-10-02 19:46:09

End at: 2019-10-02 19:46:39

Local clock offset: -4.123 ms

Remote clock offset: 4.588 ms

Below is generated by plot.py at 2019-10-02 22:25:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.79 Mbit/s

95th percentile per-packet one-way delay: 97.803 ms

Loss rate: 0.53%

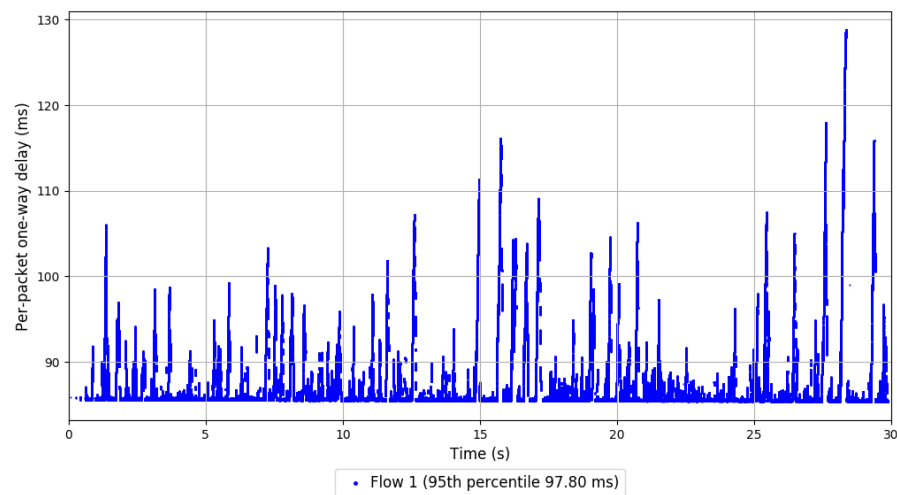
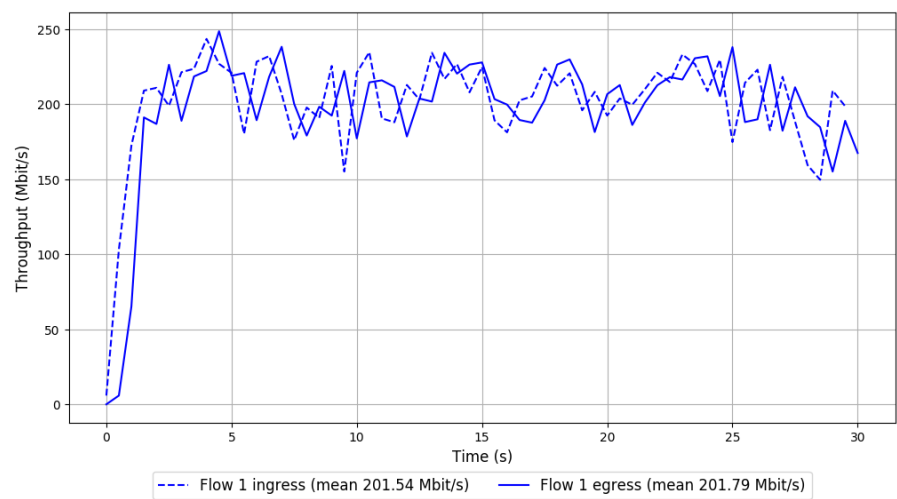
-- Flow 1:

Average throughput: 201.79 Mbit/s

95th percentile per-packet one-way delay: 97.803 ms

Loss rate: 0.53%

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

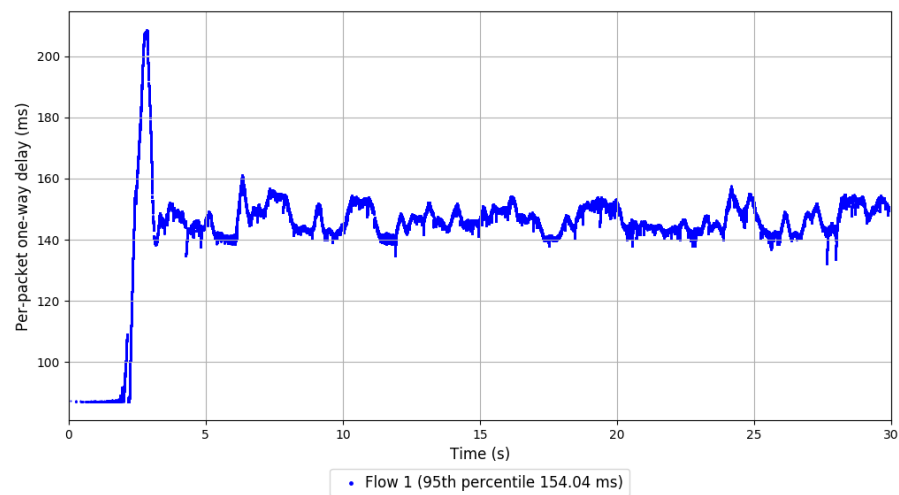
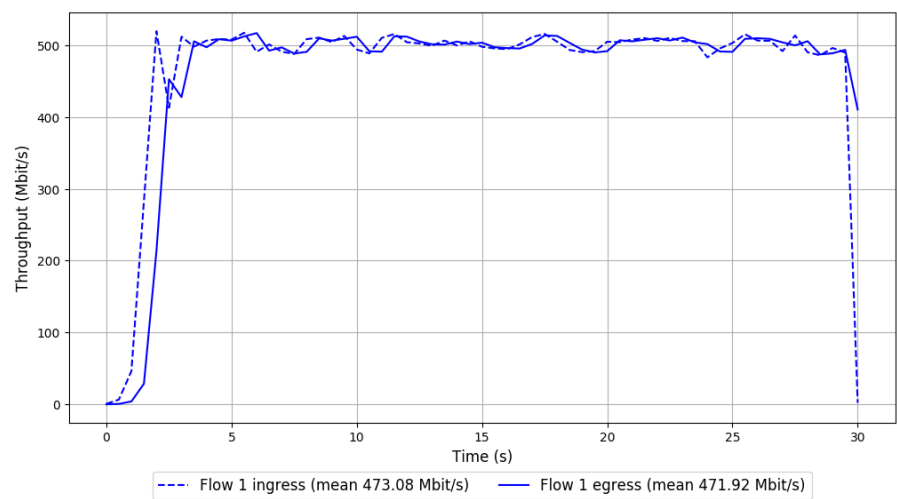


Run 1: Statistics of TCP Vegas

Start at: 2019-10-02 17:42:30
End at: 2019-10-02 17:43:00
Local clock offset: -25.418 ms
Remote clock offset: 12.915 ms

Below is generated by plot.py at 2019-10-02 22:28:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 471.92 Mbit/s
95th percentile per-packet one-way delay: 154.038 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 471.92 Mbit/s
95th percentile per-packet one-way delay: 154.038 ms
Loss rate: 0.82%

Run 1: Report of TCP Vegas — Data Link

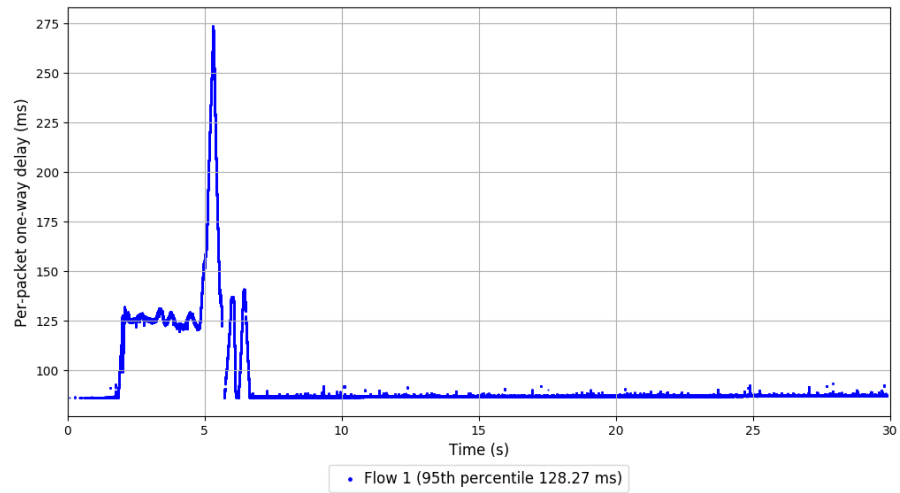
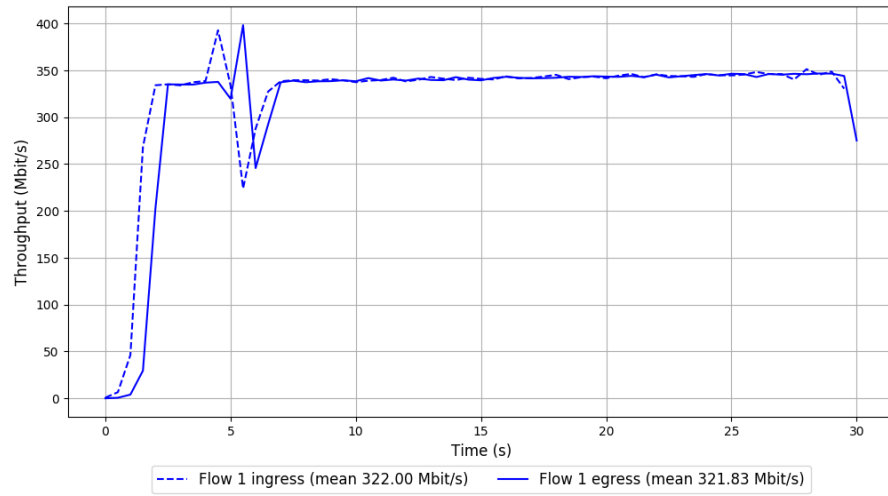


Run 2: Statistics of TCP Vegas

Start at: 2019-10-02 18:17:18
End at: 2019-10-02 18:17:48
Local clock offset: -25.406 ms
Remote clock offset: 20.263 ms

Below is generated by plot.py at 2019-10-02 22:28:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 321.83 Mbit/s
95th percentile per-packet one-way delay: 128.270 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 321.83 Mbit/s
95th percentile per-packet one-way delay: 128.270 ms
Loss rate: 0.62%

Run 2: Report of TCP Vegas — Data Link

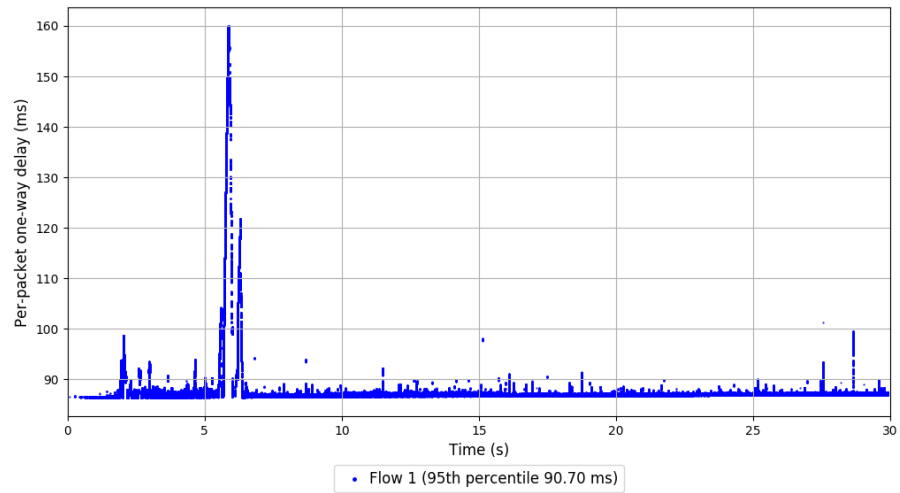
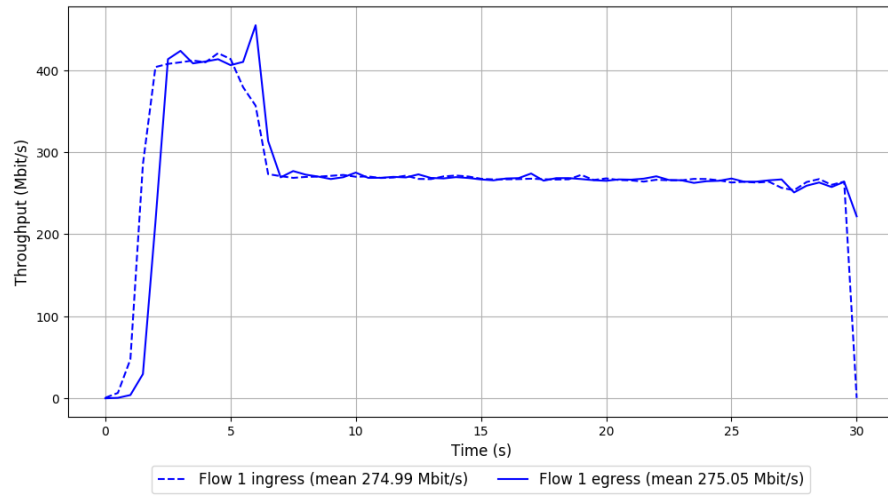


Run 3: Statistics of TCP Vegas

Start at: 2019-10-02 18:52:16
End at: 2019-10-02 18:52:46
Local clock offset: -39.679 ms
Remote clock offset: 12.459 ms

Below is generated by plot.py at 2019-10-02 22:28:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 275.05 Mbit/s
95th percentile per-packet one-way delay: 90.700 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 275.05 Mbit/s
95th percentile per-packet one-way delay: 90.700 ms
Loss rate: 0.55%

Run 3: Report of TCP Vegas — Data Link

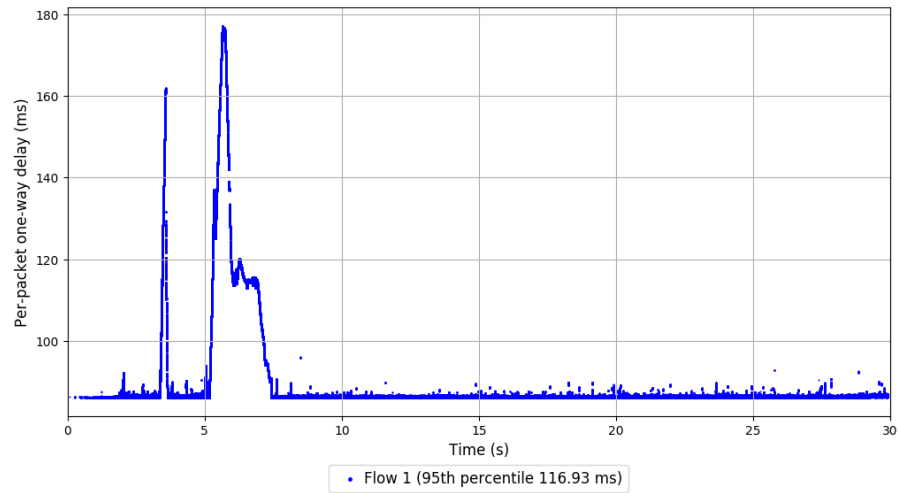
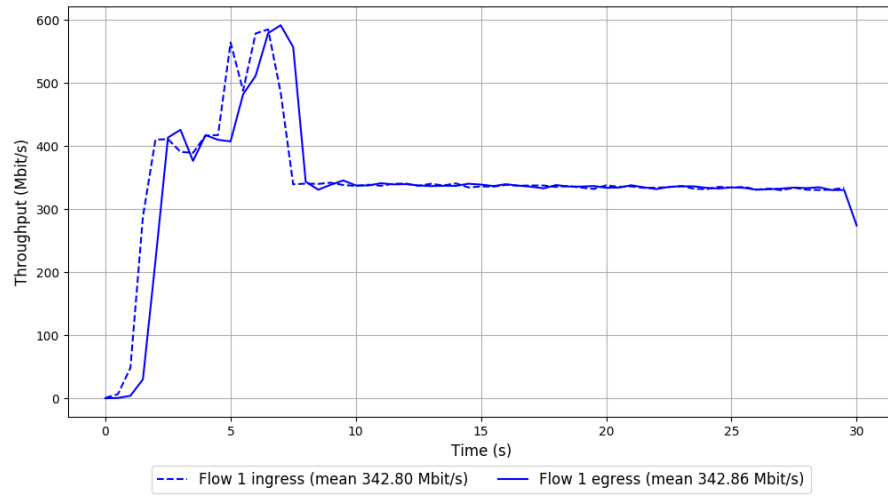


Run 4: Statistics of TCP Vegas

Start at: 2019-10-02 19:26:48
End at: 2019-10-02 19:27:18
Local clock offset: -10.156 ms
Remote clock offset: 6.014 ms

Below is generated by plot.py at 2019-10-02 22:32:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 342.86 Mbit/s
95th percentile per-packet one-way delay: 116.933 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 342.86 Mbit/s
95th percentile per-packet one-way delay: 116.933 ms
Loss rate: 0.56%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-10-02 20:01:37

End at: 2019-10-02 20:02:07

Local clock offset: -5.076 ms

Remote clock offset: 1.66 ms

Below is generated by plot.py at 2019-10-02 22:34:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 405.26 Mbit/s

95th percentile per-packet one-way delay: 177.814 ms

Loss rate: 0.48%

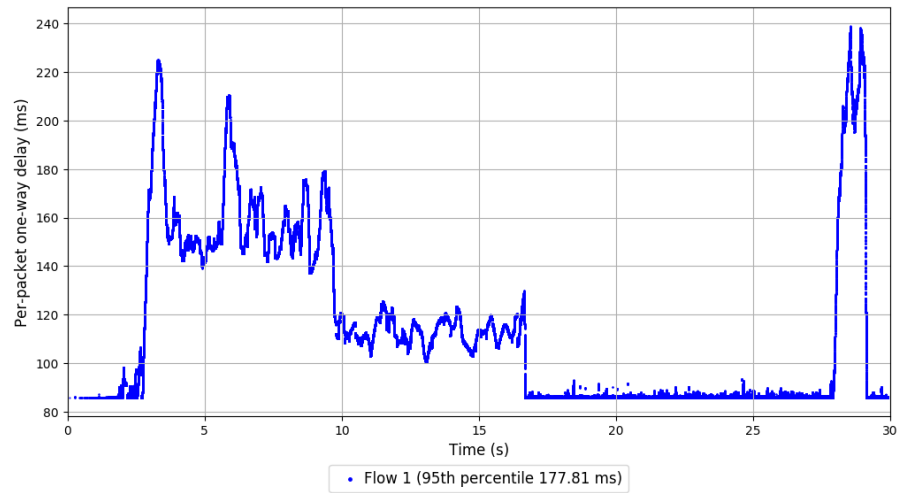
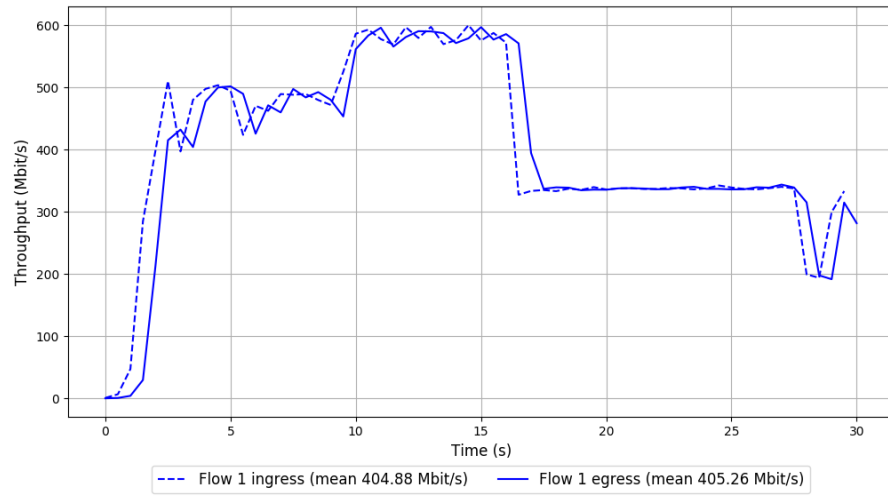
-- Flow 1:

Average throughput: 405.26 Mbit/s

95th percentile per-packet one-way delay: 177.814 ms

Loss rate: 0.48%

Run 5: Report of TCP Vegas — Data Link

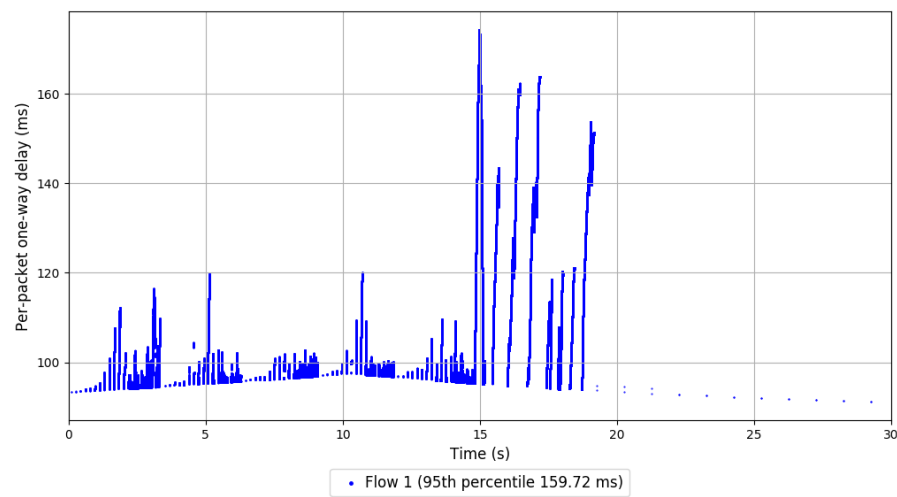
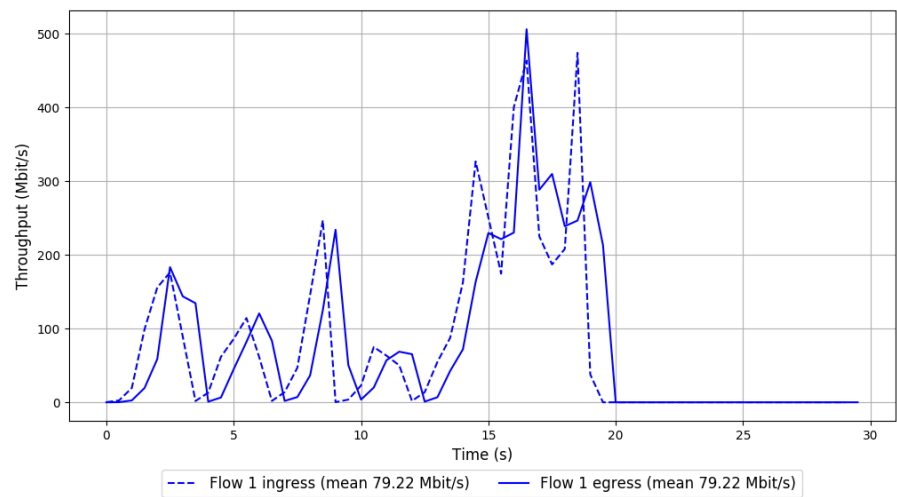


Run 1: Statistics of Verus

Start at: 2019-10-02 17:26:08
End at: 2019-10-02 17:26:38
Local clock offset: -13.726 ms
Remote clock offset: 2.584 ms

Below is generated by plot.py at 2019-10-02 22:34:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.22 Mbit/s
95th percentile per-packet one-way delay: 159.717 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 79.22 Mbit/s
95th percentile per-packet one-way delay: 159.717 ms
Loss rate: 0.00%

Run 1: Report of Verus — Data Link

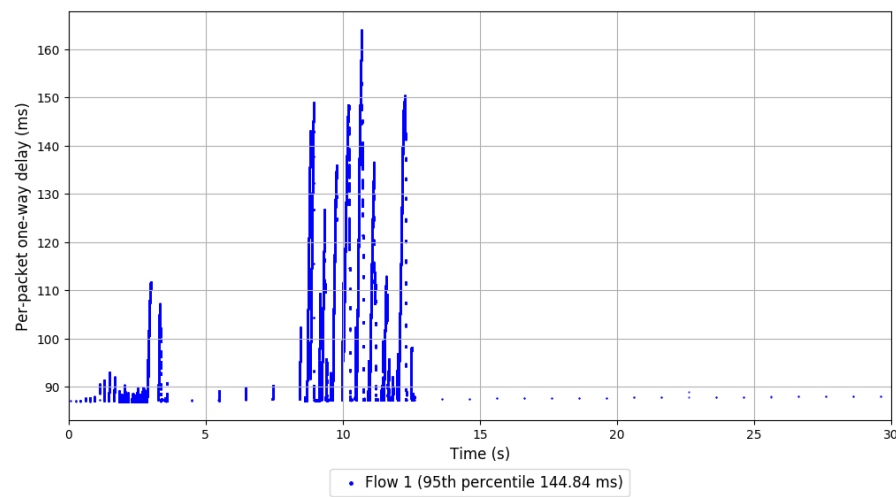
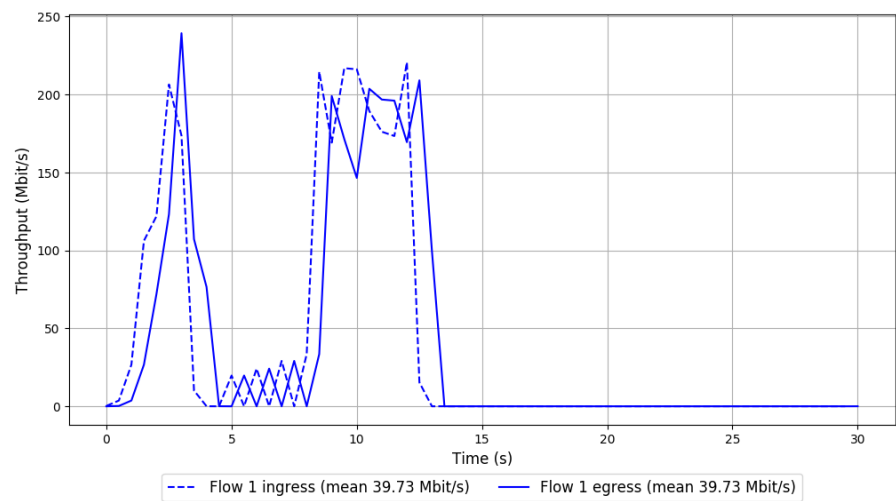


Run 2: Statistics of Verus

Start at: 2019-10-02 18:00:41
End at: 2019-10-02 18:01:11
Local clock offset: -50.051 ms
Remote clock offset: 18.939 ms

Below is generated by plot.py at 2019-10-02 22:34:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 39.73 Mbit/s
95th percentile per-packet one-way delay: 144.844 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 39.73 Mbit/s
95th percentile per-packet one-way delay: 144.844 ms
Loss rate: 0.00%

Run 2: Report of Verus — Data Link

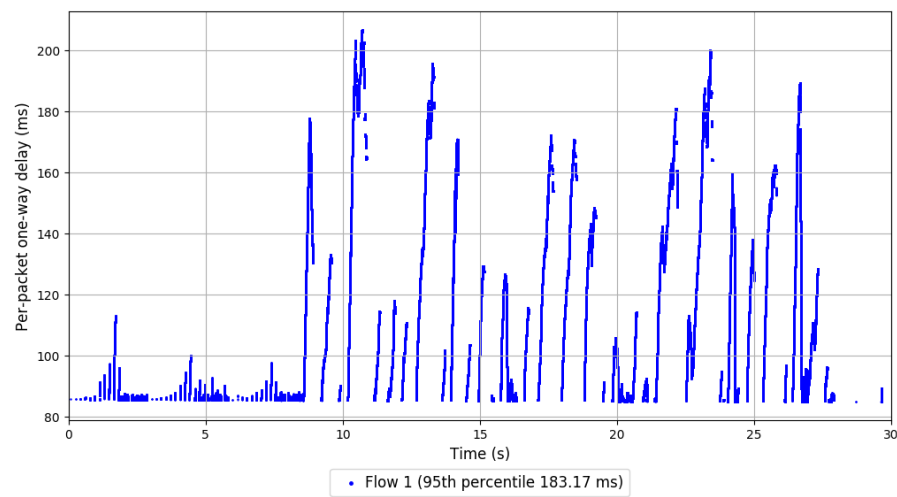
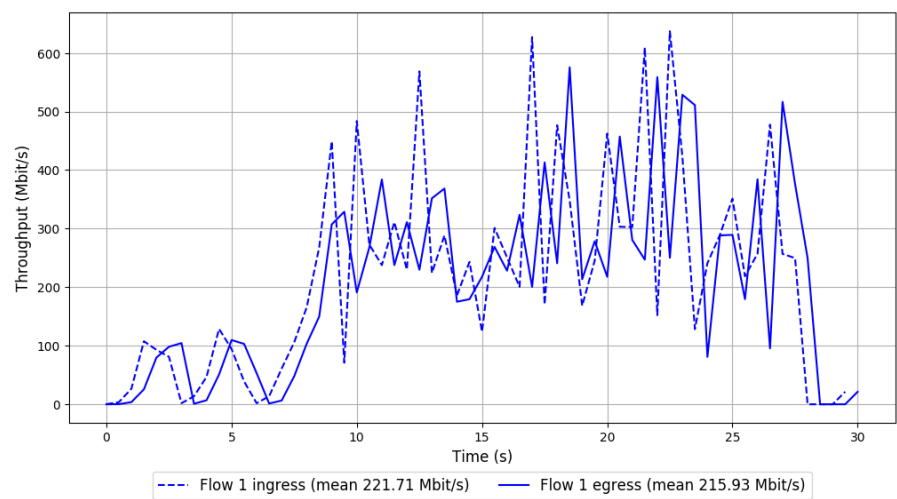


Run 3: Statistics of Verus

Start at: 2019-10-02 18:35:25
End at: 2019-10-02 18:35:55
Local clock offset: -23.369 ms
Remote clock offset: 24.957 ms

Below is generated by plot.py at 2019-10-02 22:34:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 215.93 Mbit/s
95th percentile per-packet one-way delay: 183.166 ms
Loss rate: 2.60%
-- Flow 1:
Average throughput: 215.93 Mbit/s
95th percentile per-packet one-way delay: 183.166 ms
Loss rate: 2.60%

Run 3: Report of Verus — Data Link

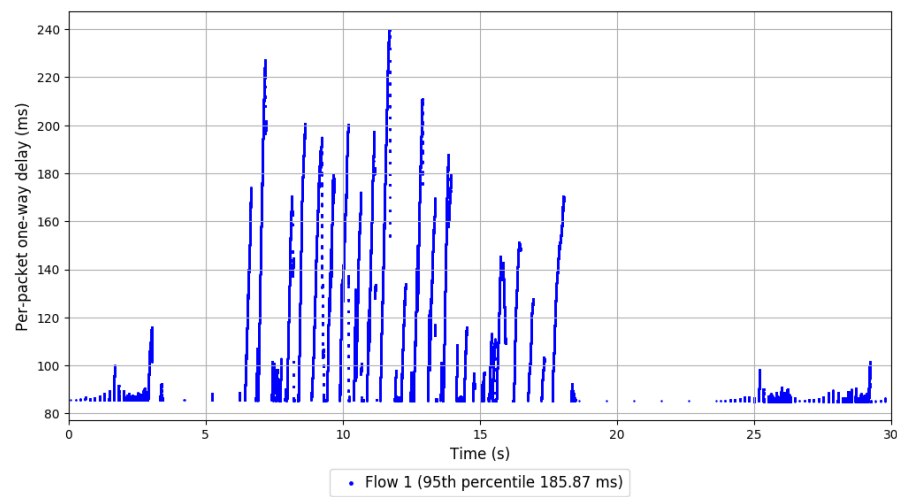
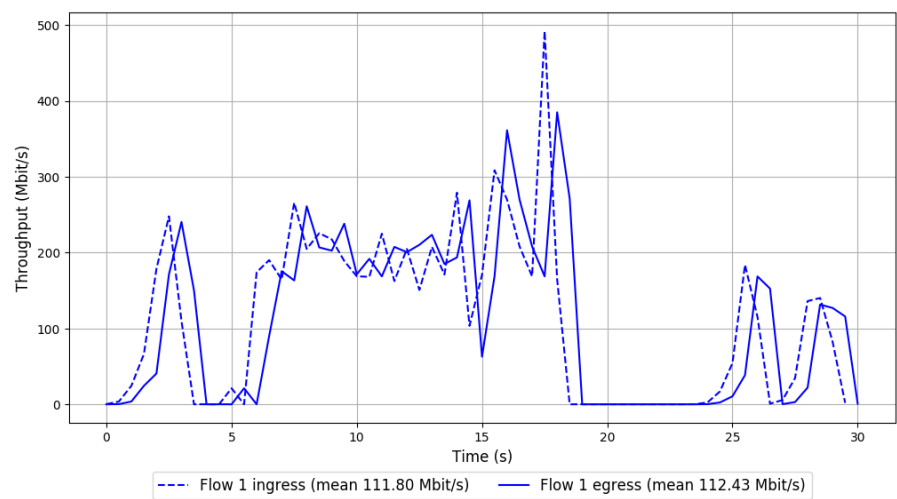


Run 4: Statistics of Verus

Start at: 2019-10-02 19:10:07
End at: 2019-10-02 19:10:37
Local clock offset: -10.904 ms
Remote clock offset: 11.965 ms

Below is generated by plot.py at 2019-10-02 22:34:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 112.43 Mbit/s
95th percentile per-packet one-way delay: 185.873 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 112.43 Mbit/s
95th percentile per-packet one-way delay: 185.873 ms
Loss rate: 0.01%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-10-02 19:44:55

End at: 2019-10-02 19:45:25

Local clock offset: -3.787 ms

Remote clock offset: 5.159 ms

Below is generated by plot.py at 2019-10-02 22:34:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.90 Mbit/s

95th percentile per-packet one-way delay: 131.298 ms

Loss rate: 0.00%

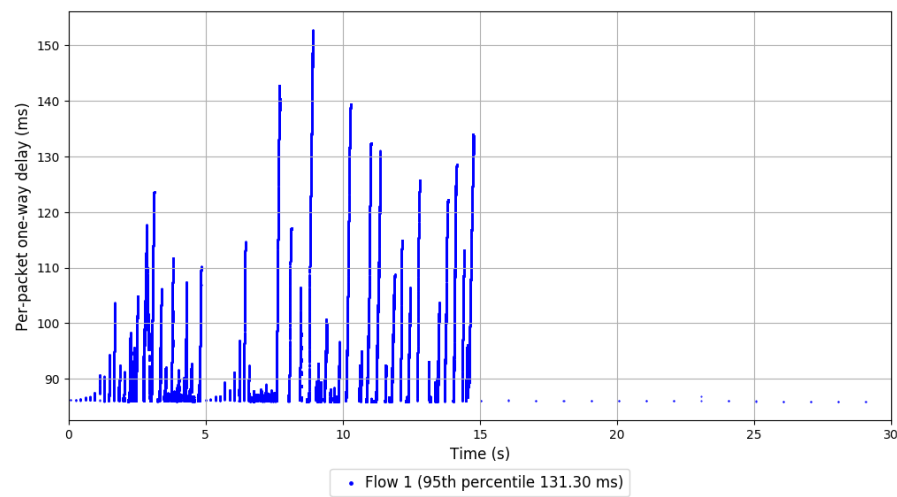
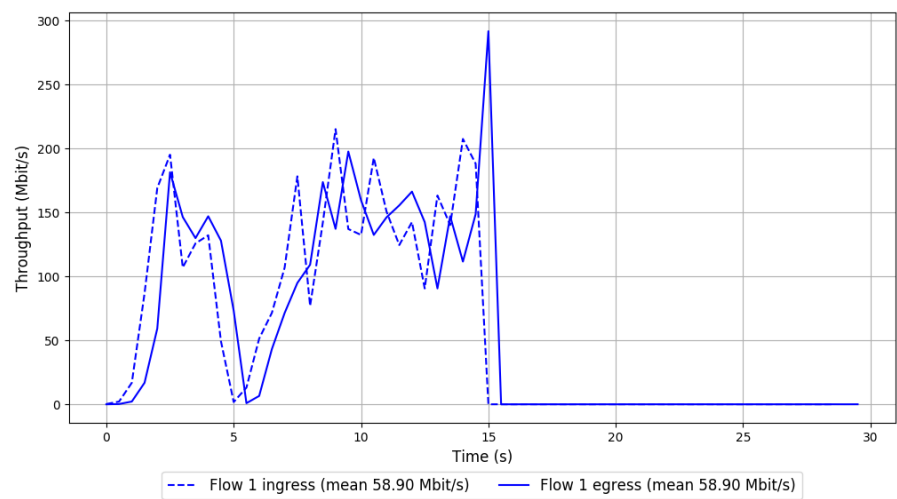
-- Flow 1:

Average throughput: 58.90 Mbit/s

95th percentile per-packet one-way delay: 131.298 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link

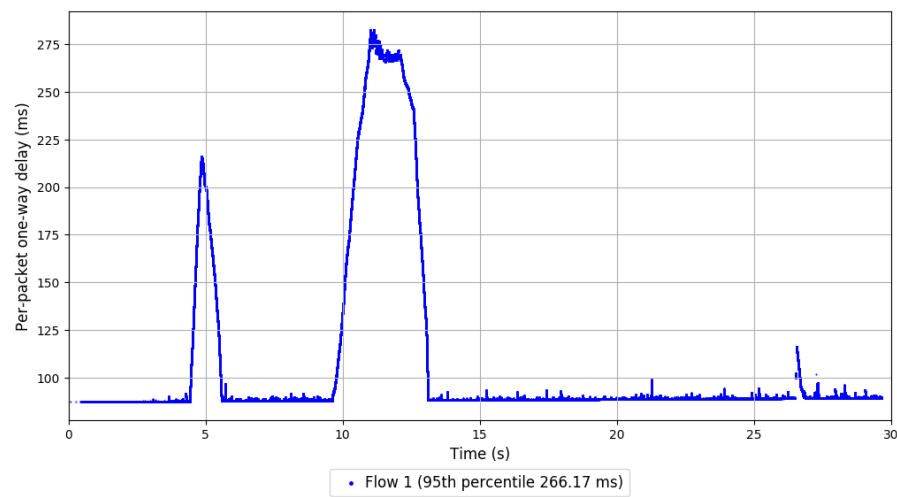
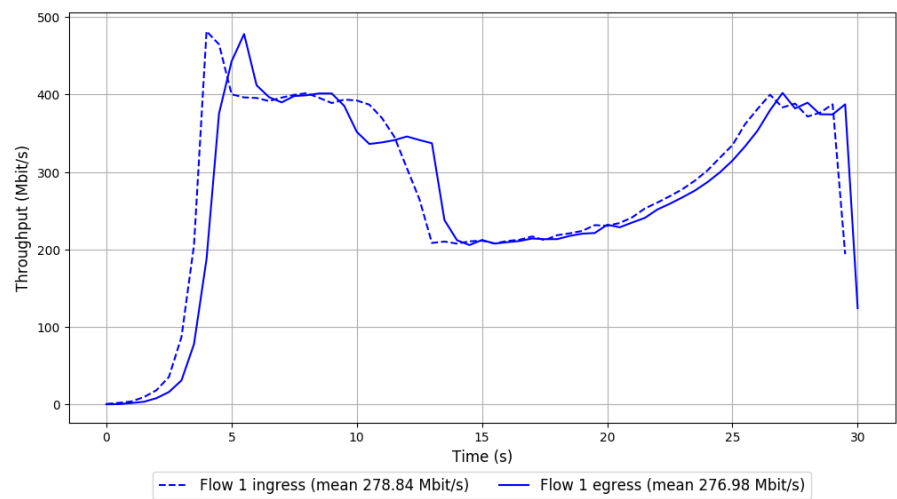


Run 1: Statistics of PCC-Vivace

Start at: 2019-10-02 17:57:30
End at: 2019-10-02 17:58:00
Local clock offset: -40.956 ms
Remote clock offset: 20.733 ms

Below is generated by plot.py at 2019-10-02 22:34:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 276.98 Mbit/s
95th percentile per-packet one-way delay: 266.169 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 276.98 Mbit/s
95th percentile per-packet one-way delay: 266.169 ms
Loss rate: 1.24%

Run 1: Report of PCC-Vivace — Data Link

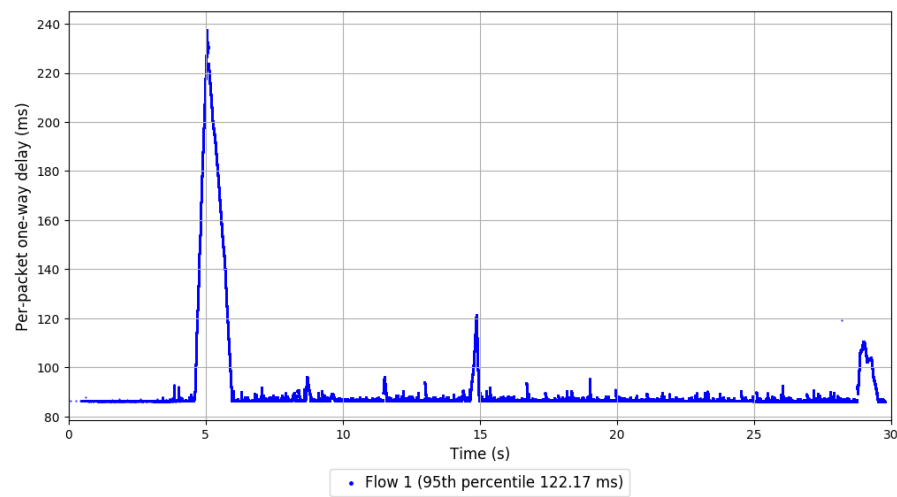
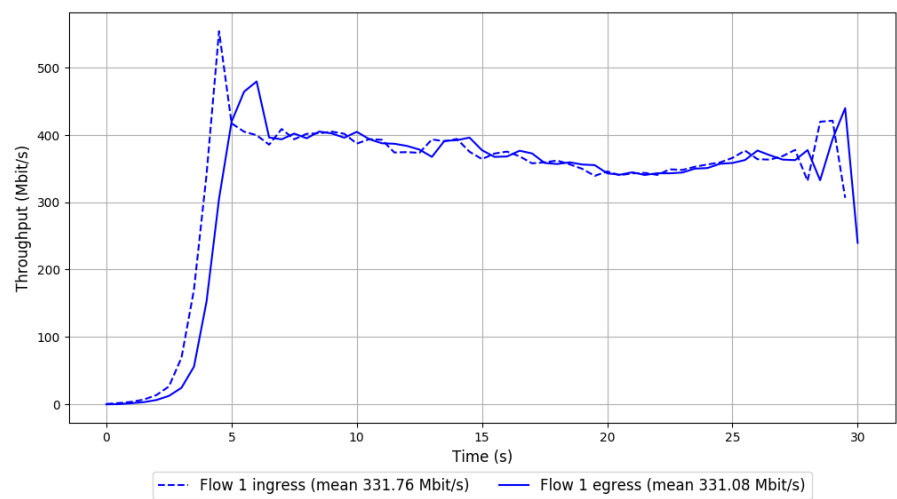


Run 2: Statistics of PCC-Vivace

Start at: 2019-10-02 18:32:10
End at: 2019-10-02 18:32:40
Local clock offset: -21.527 ms
Remote clock offset: 32.447 ms

Below is generated by plot.py at 2019-10-02 22:34:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 331.08 Mbit/s
95th percentile per-packet one-way delay: 122.165 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 331.08 Mbit/s
95th percentile per-packet one-way delay: 122.165 ms
Loss rate: 0.78%

Run 2: Report of PCC-Vivace — Data Link

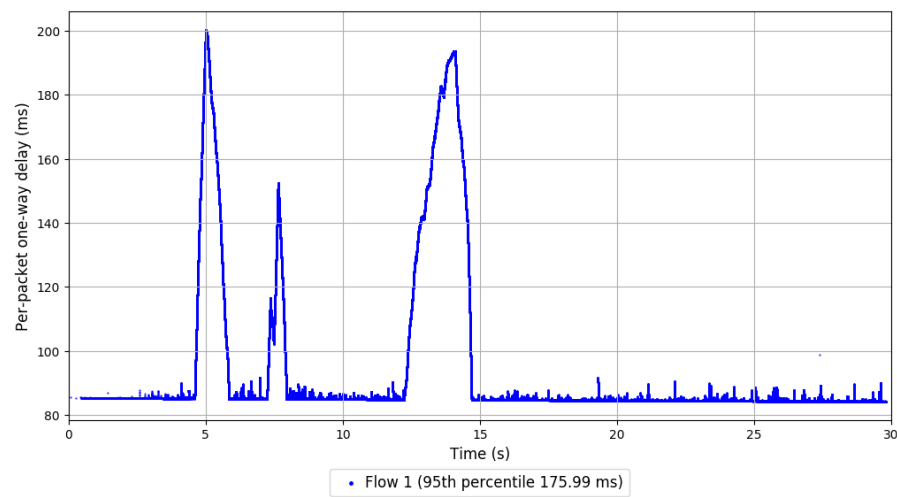
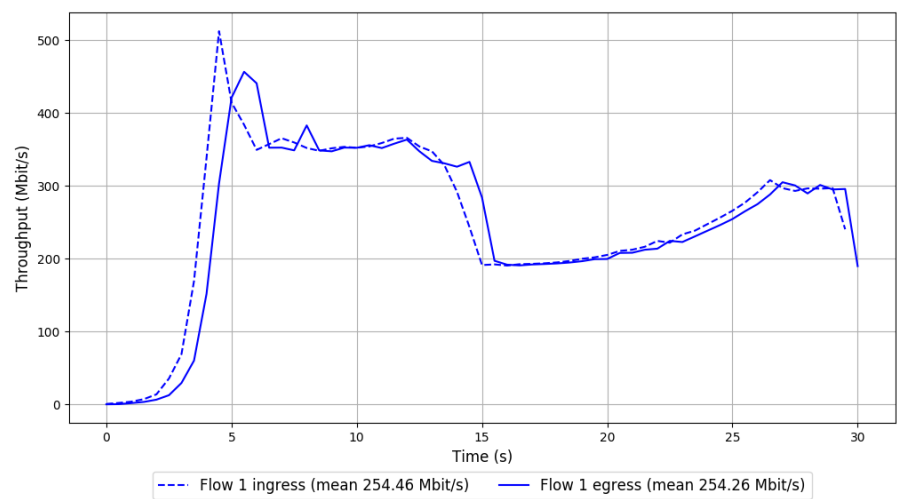


Run 3: Statistics of PCC-Vivace

Start at: 2019-10-02 19:07:01
End at: 2019-10-02 19:07:31
Local clock offset: -13.379 ms
Remote clock offset: 16.073 ms

Below is generated by plot.py at 2019-10-02 22:34:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 254.26 Mbit/s
95th percentile per-packet one-way delay: 175.988 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 254.26 Mbit/s
95th percentile per-packet one-way delay: 175.988 ms
Loss rate: 0.66%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-10-02 19:41:43

End at: 2019-10-02 19:42:13

Local clock offset: -4.058 ms

Remote clock offset: 7.22 ms

Below is generated by plot.py at 2019-10-02 22:34:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 269.83 Mbit/s

95th percentile per-packet one-way delay: 192.937 ms

Loss rate: 1.42%

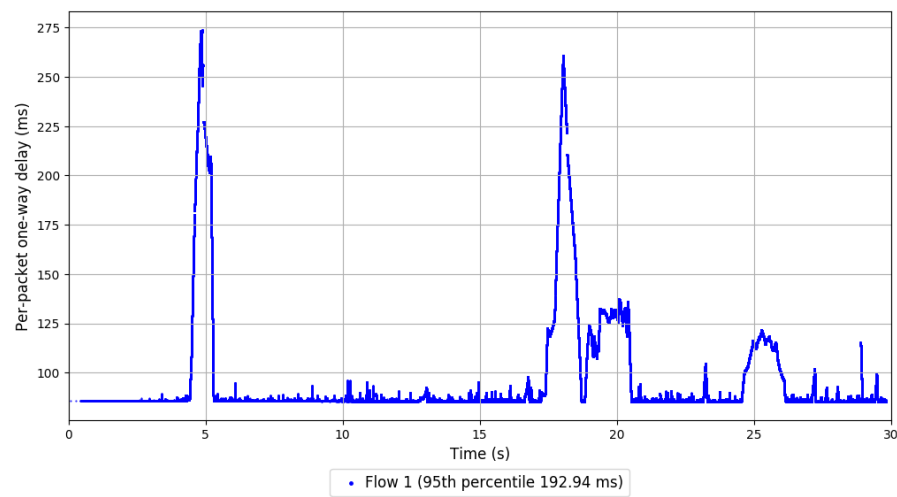
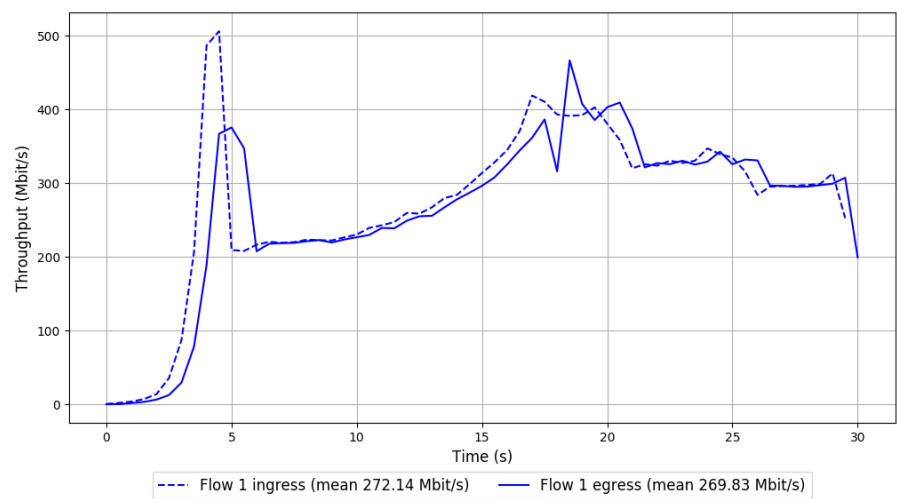
-- Flow 1:

Average throughput: 269.83 Mbit/s

95th percentile per-packet one-way delay: 192.937 ms

Loss rate: 1.42%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-10-02 20:16:30

End at: 2019-10-02 20:17:00

Local clock offset: -1.539 ms

Remote clock offset: 1.572 ms

Below is generated by plot.py at 2019-10-02 22:34:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.92 Mbit/s

95th percentile per-packet one-way delay: 88.069 ms

Loss rate: 0.70%

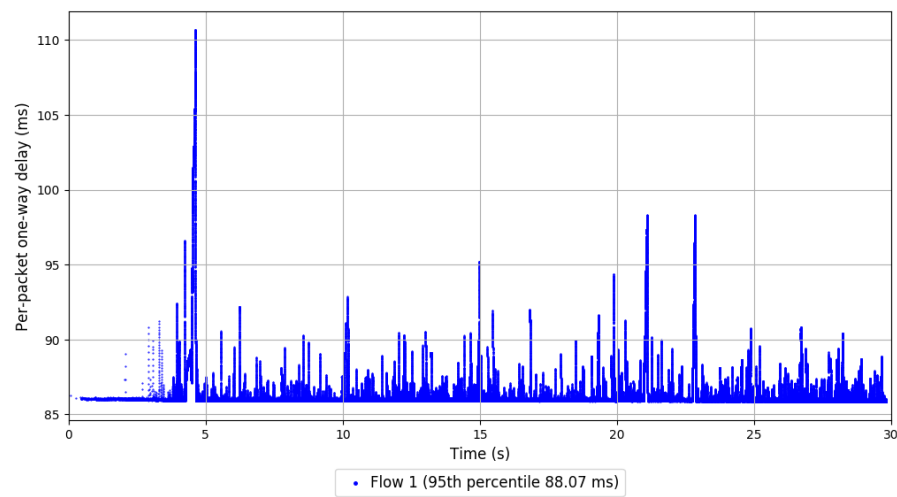
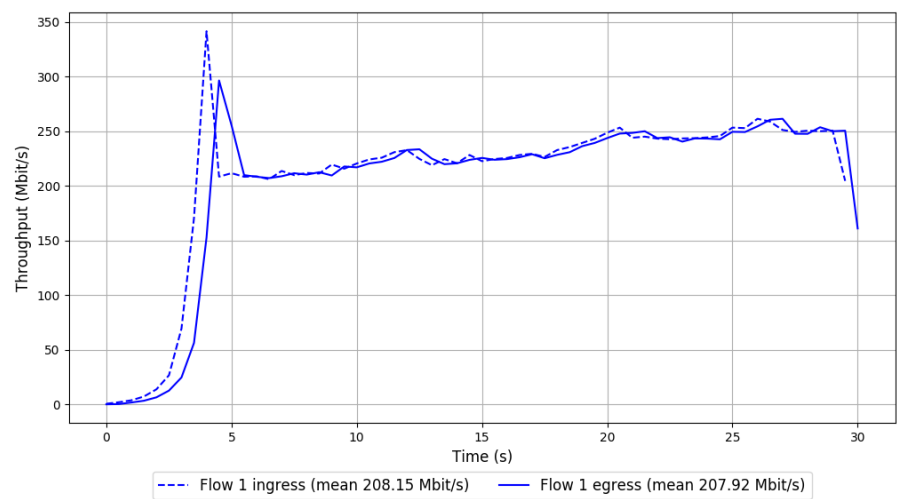
-- Flow 1:

Average throughput: 207.92 Mbit/s

95th percentile per-packet one-way delay: 88.069 ms

Loss rate: 0.70%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

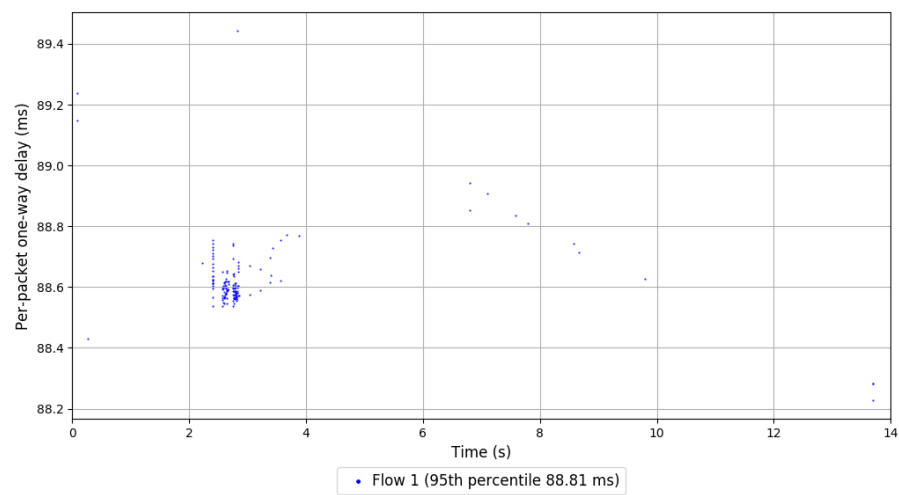
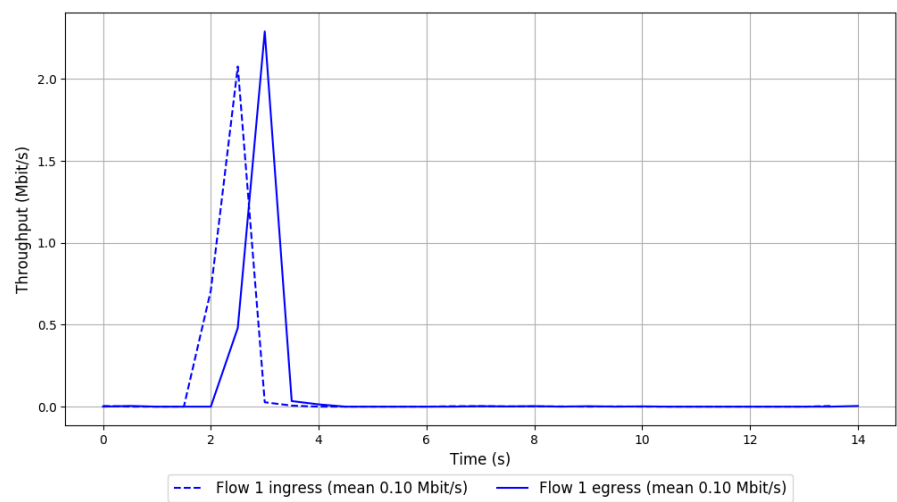
Start at: 2019-10-02 17:45:22

End at: 2019-10-02 17:45:52

Local clock offset: -35.554 ms

Remote clock offset: 10.864 ms

Run 1: Report of WebRTC media — Data Link

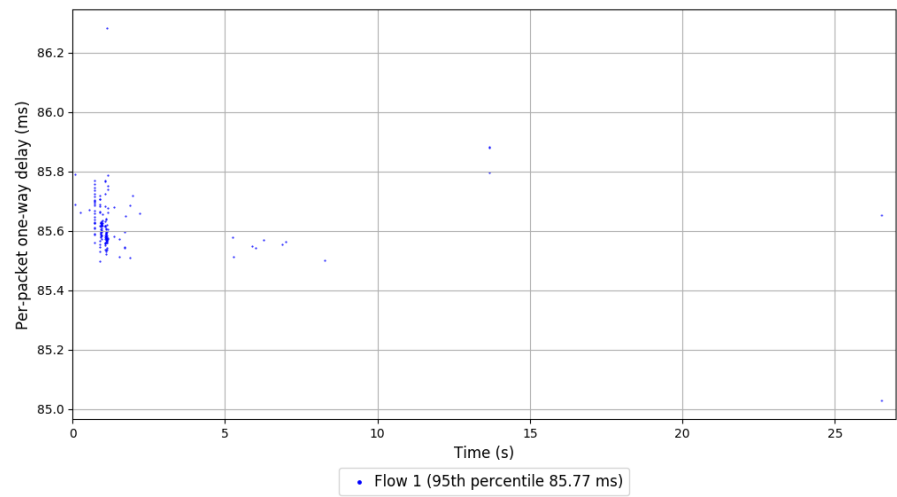
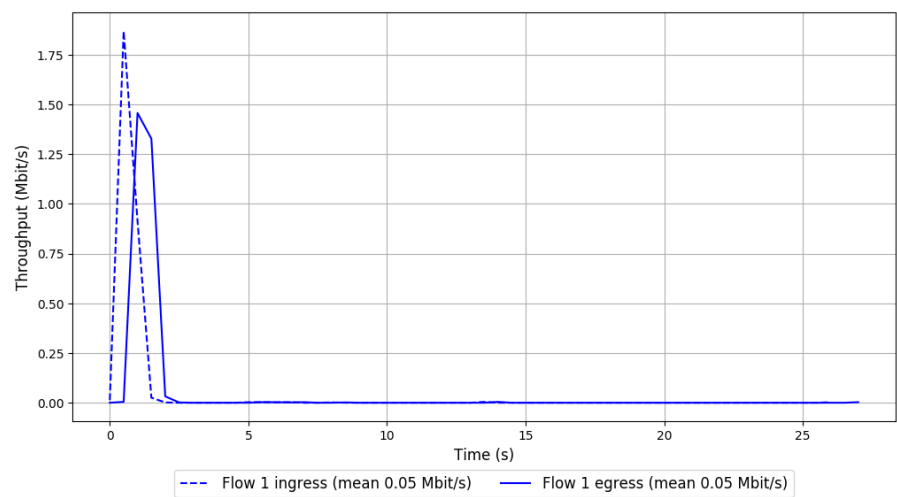


Run 2: Statistics of WebRTC media

Start at: 2019-10-02 18:20:06
End at: 2019-10-02 18:20:36
Local clock offset: -28.615 ms
Remote clock offset: 22.252 ms

Below is generated by plot.py at 2019-10-02 22:34:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.765 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.765 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

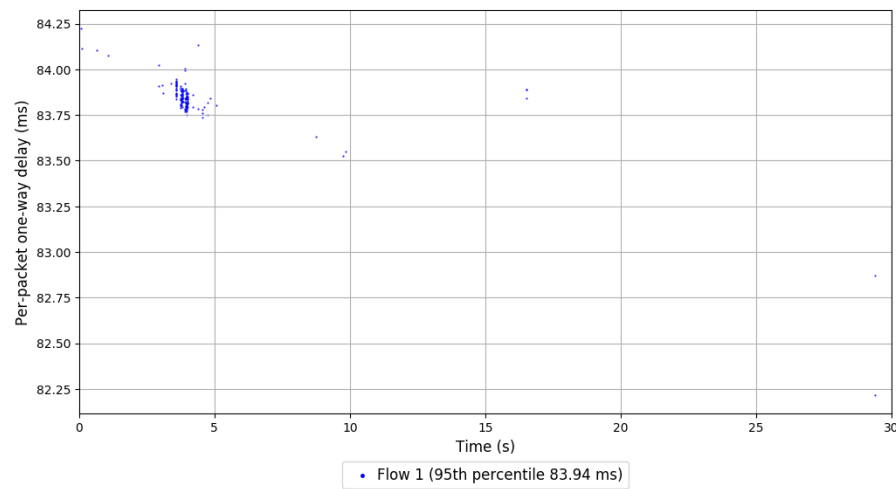
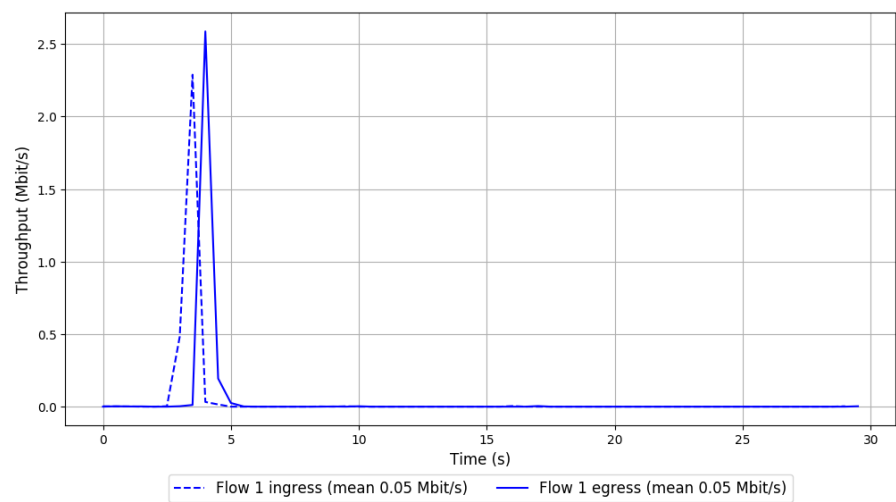


Run 3: Statistics of WebRTC media

Start at: 2019-10-02 18:55:00
End at: 2019-10-02 18:55:30
Local clock offset: -38.669 ms
Remote clock offset: 12.856 ms

Below is generated by plot.py at 2019-10-02 22:34:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 83.945 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 83.945 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

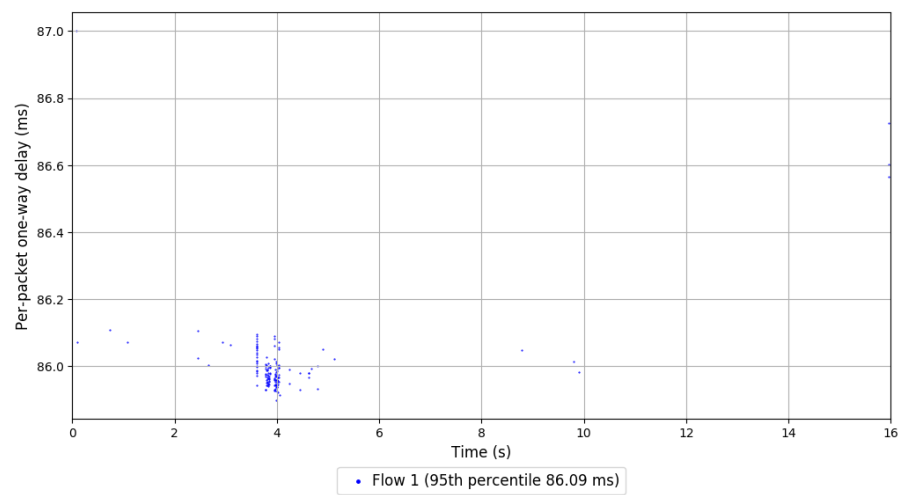
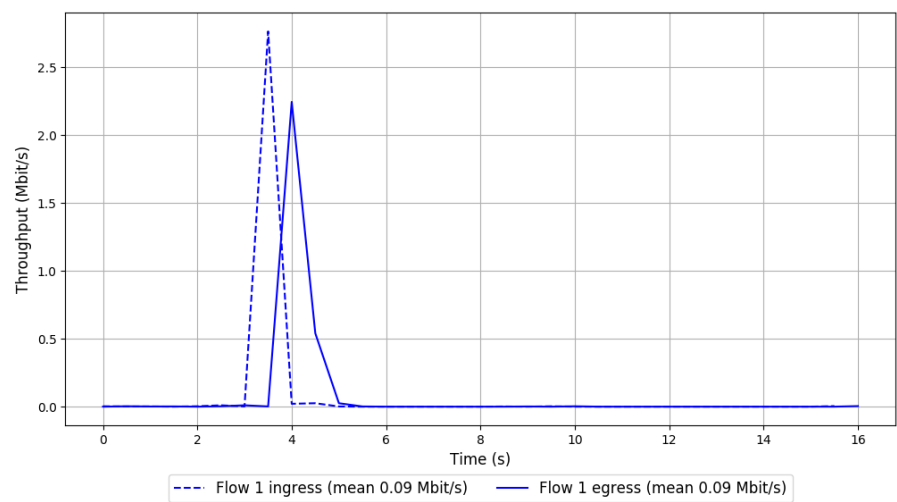
Start at: 2019-10-02 19:29:39

End at: 2019-10-02 19:30:09

Local clock offset: -8.883 ms

Remote clock offset: 6.177 ms

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-10-02 20:04:28

End at: 2019-10-02 20:04:58

Local clock offset: -4.303 ms

Remote clock offset: 1.596 ms

Below is generated by plot.py at 2019-10-02 22:34:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 85.458 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 85.458 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

