

Pantheon Report

Generated at 2019-10-03 10:40:27 (UTC).

Data path: GCE London 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:

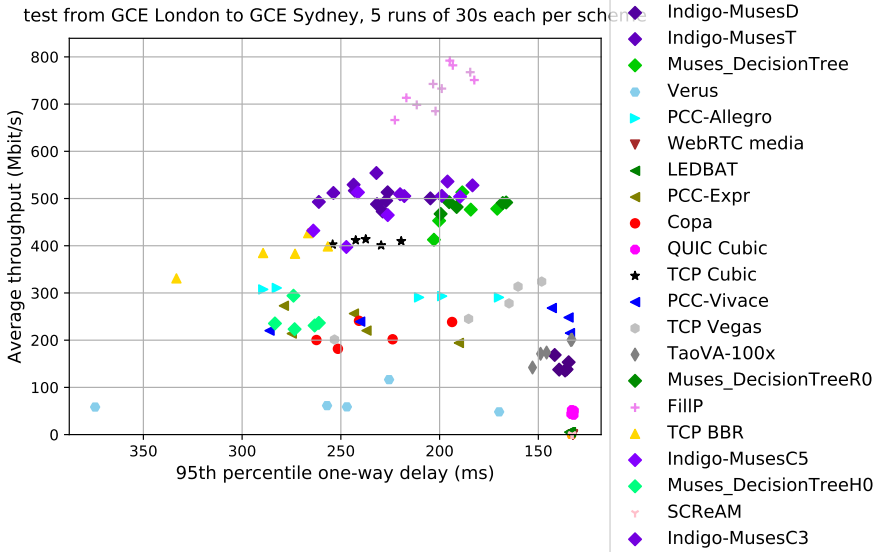
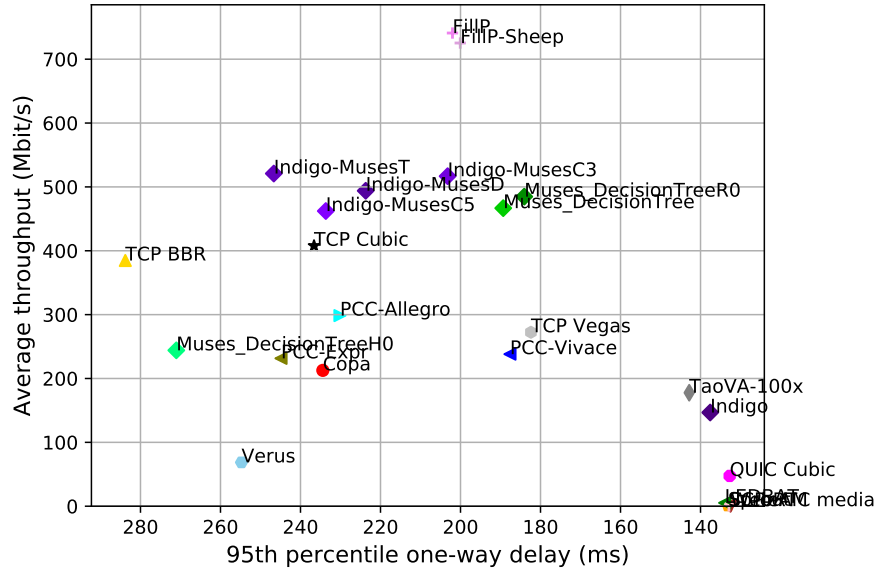
```
Linux 4.15.0-1044-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

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 London to GCE Sydney, 5 runs of 30s each per scheme
(mean of all runs by scheme)



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	384.77	283.79	4.73
Copa	5	212.70	234.42	1.17
TCP Cubic	5	407.78	236.62	1.23
FillP	5	740.96	202.01	3.98
FillP-Sheep	5	725.31	200.06	2.87
Indigo	5	146.72	137.59	0.93
Indigo-MusesC3	5	516.79	203.22	1.24
Indigo-MusesC5	5	462.22	233.68	2.48
Indigo-MusesD	5	493.94	223.70	1.67
Indigo-MusesT	5	520.93	246.68	2.63
LEDBAT	5	5.22	133.97	1.79
Muses_DecisionTree	5	466.75	189.32	1.42
Muses_DecisionTreeH0	5	244.09	271.04	20.06
Muses_DecisionTreeR0	5	484.80	184.06	1.20
PCC-Allegro	5	298.49	230.13	3.60
PCC-Expr	5	231.51	244.87	3.43
QUIC Cubic	5	47.43	132.71	1.45
SCReAM	5	0.16	132.90	0.88
Sprout	5	0.62	133.13	0.98
TaoVA-100x	5	177.69	142.82	1.02
TCP Vegas	5	272.39	182.39	1.65
Verus	5	68.62	254.76	5.55
PCC-Vivace	5	238.12	187.64	1.16
WebRTC media	4	0.05	132.51	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-10-03 05:32:55

End at: 2019-10-03 05:33:25

Local clock offset: -0.23 ms

Remote clock offset: -0.031 ms

Below is generated by plot.py at 2019-10-03 08:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 398.57 Mbit/s

95th percentile per-packet one-way delay: 256.598 ms

Loss rate: 2.35%

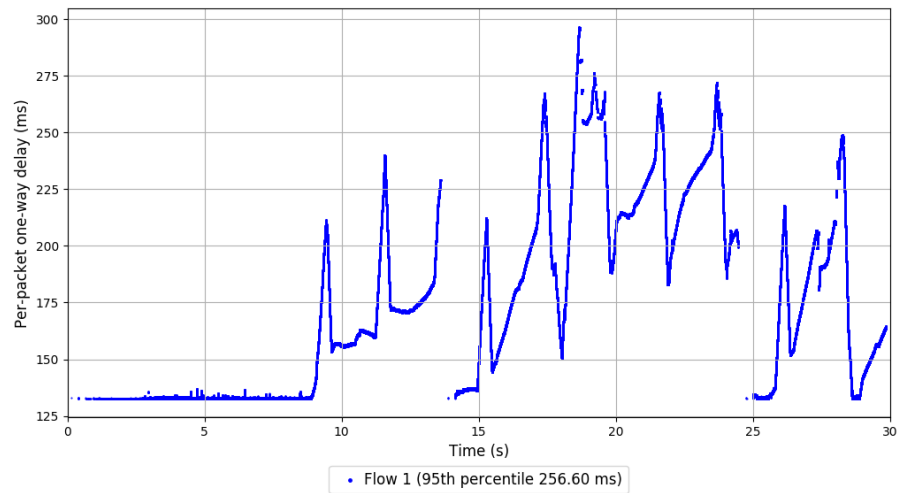
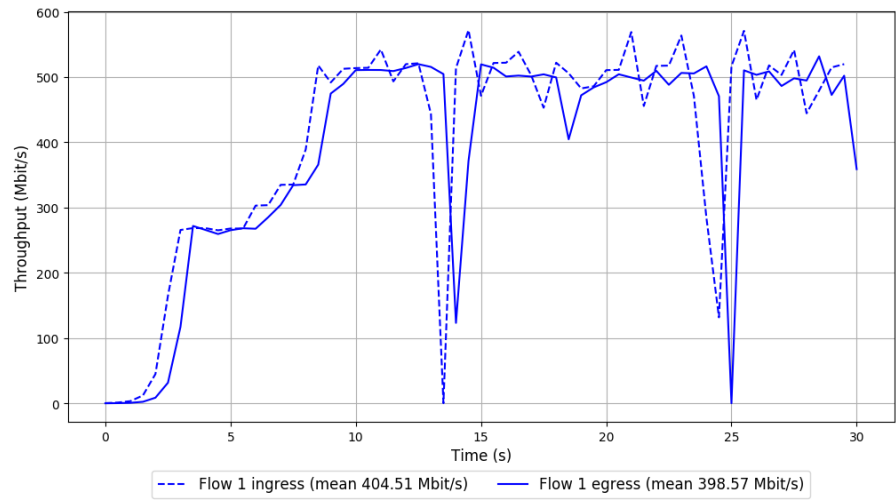
-- Flow 1:

Average throughput: 398.57 Mbit/s

95th percentile per-packet one-way delay: 256.598 ms

Loss rate: 2.35%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-10-03 06:08:35

End at: 2019-10-03 06:09:05

Local clock offset: -0.054 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2019-10-03 08:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 383.07 Mbit/s

95th percentile per-packet one-way delay: 273.197 ms

Loss rate: 3.38%

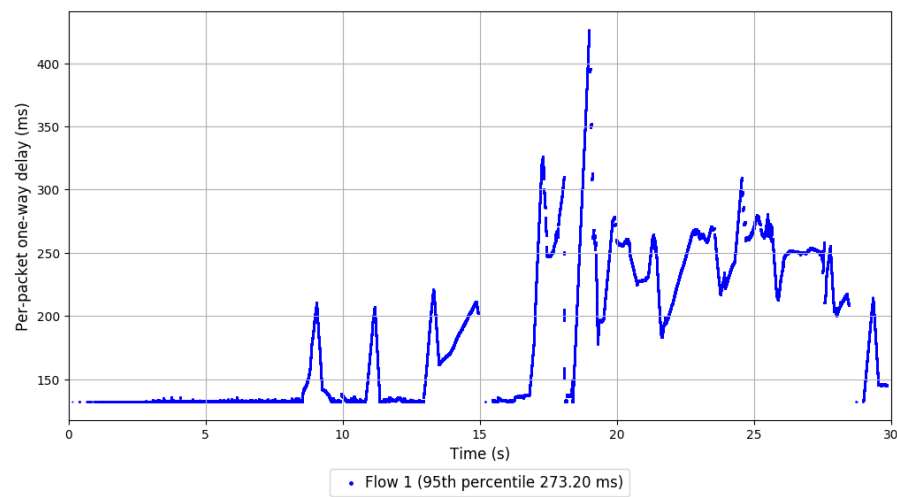
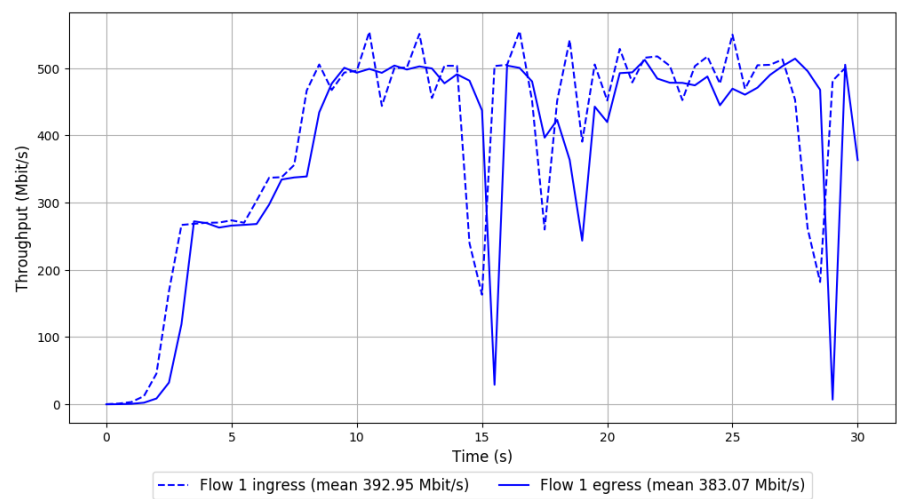
-- Flow 1:

Average throughput: 383.07 Mbit/s

95th percentile per-packet one-way delay: 273.197 ms

Loss rate: 3.38%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-10-03 06:44:42

End at: 2019-10-03 06:45:12

Local clock offset: 0.011 ms

Remote clock offset: -0.011 ms

Below is generated by plot.py at 2019-10-03 08:50:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 426.71 Mbit/s

95th percentile per-packet one-way delay: 266.532 ms

Loss rate: 2.96%

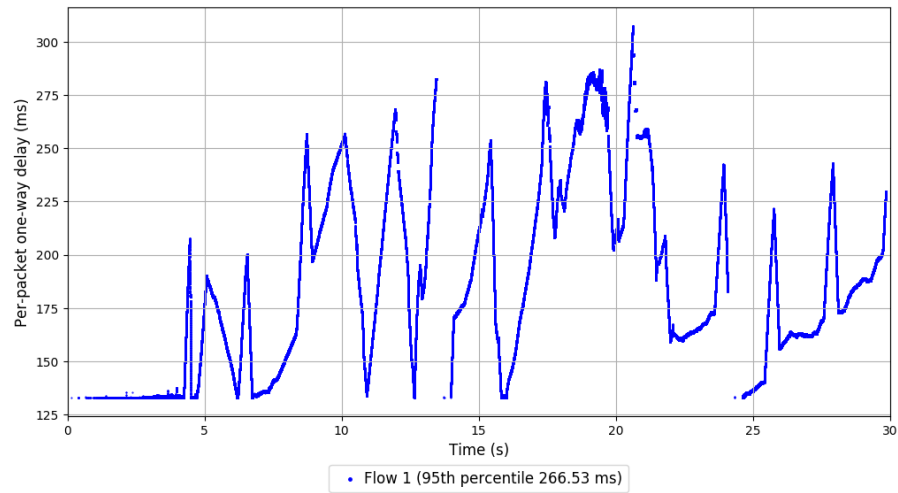
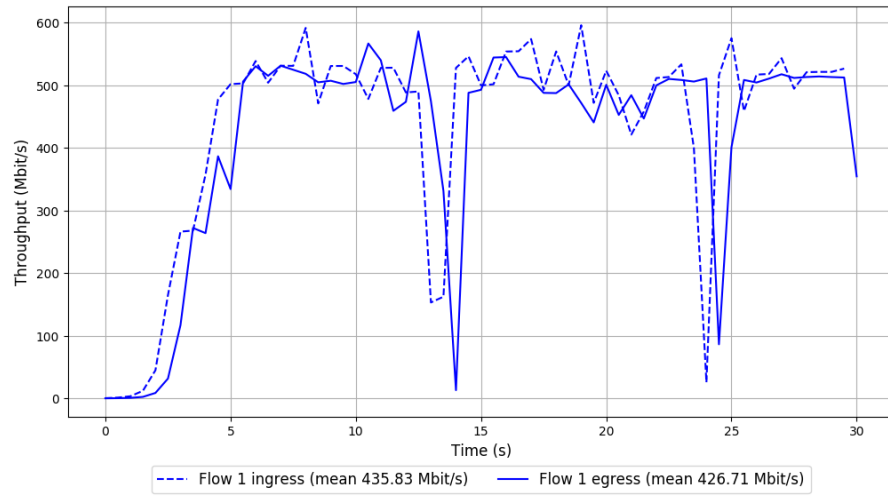
-- Flow 1:

Average throughput: 426.71 Mbit/s

95th percentile per-packet one-way delay: 266.532 ms

Loss rate: 2.96%

Run 3: Report of TCP BBR — Data Link

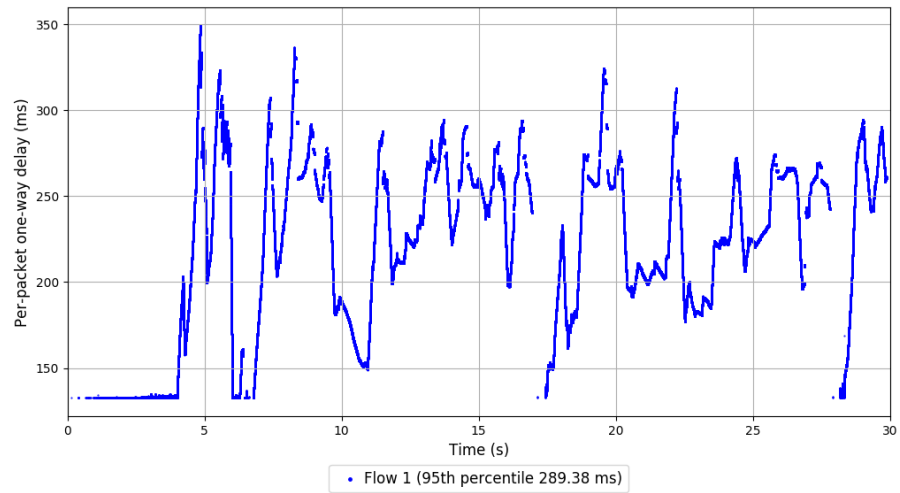
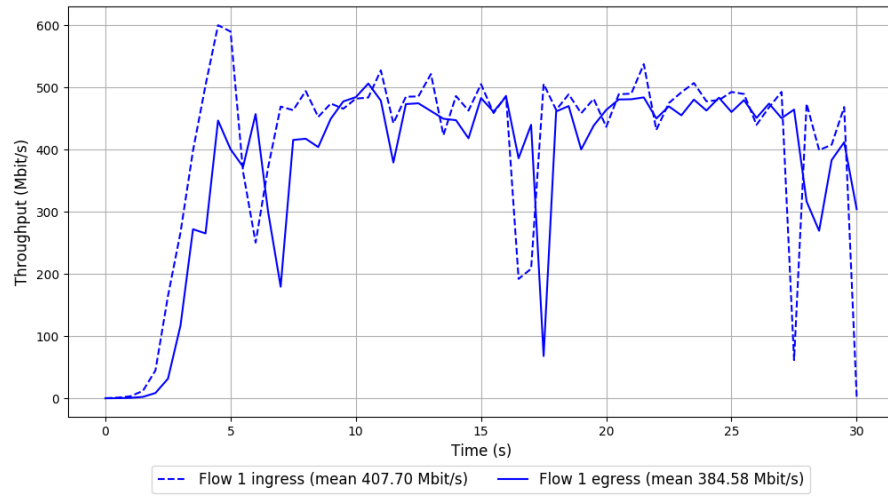


Run 4: Statistics of TCP BBR

Start at: 2019-10-03 07:20:27
End at: 2019-10-03 07:20:57
Local clock offset: -0.029 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2019-10-03 08:50:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 384.58 Mbit/s
95th percentile per-packet one-way delay: 289.377 ms
Loss rate: 6.51%
-- Flow 1:
Average throughput: 384.58 Mbit/s
95th percentile per-packet one-way delay: 289.377 ms
Loss rate: 6.51%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-10-03 07:56:11

End at: 2019-10-03 07:56:41

Local clock offset: -0.006 ms

Remote clock offset: 0.389 ms

Below is generated by plot.py at 2019-10-03 08:50:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 330.93 Mbit/s

95th percentile per-packet one-way delay: 333.263 ms

Loss rate: 8.47%

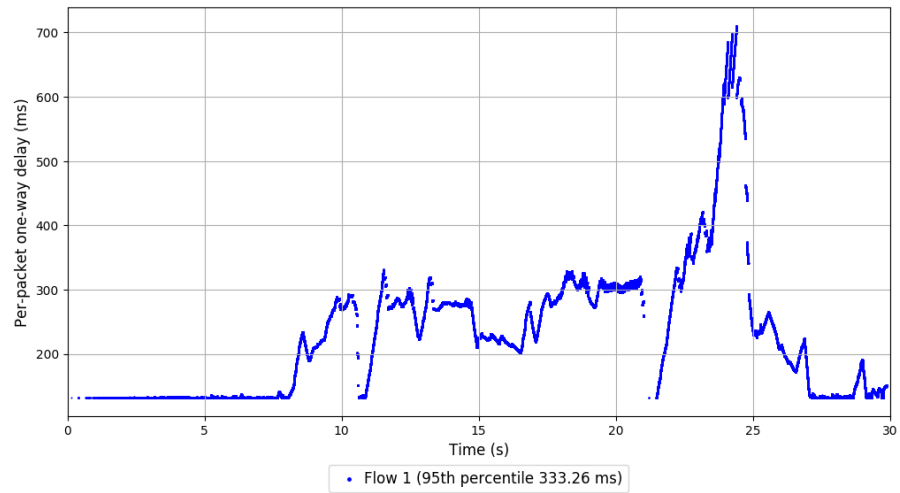
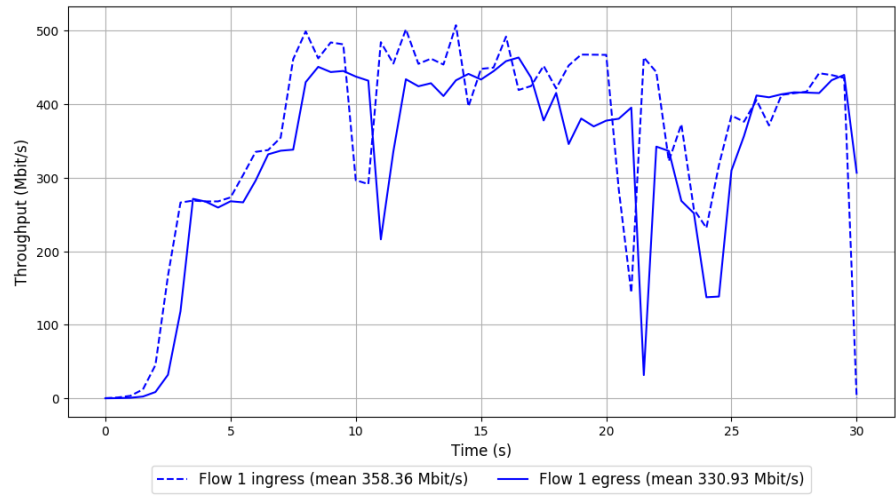
-- Flow 1:

Average throughput: 330.93 Mbit/s

95th percentile per-packet one-way delay: 333.263 ms

Loss rate: 8.47%

Run 5: Report of TCP BBR — Data Link

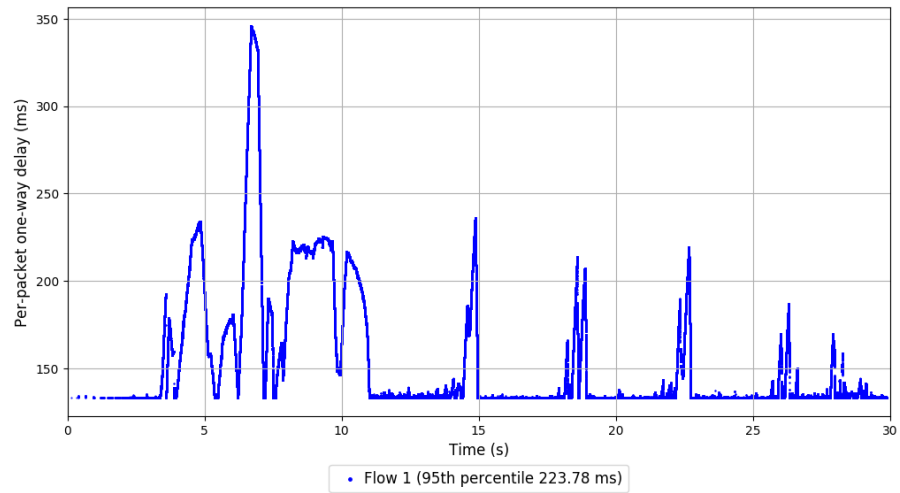
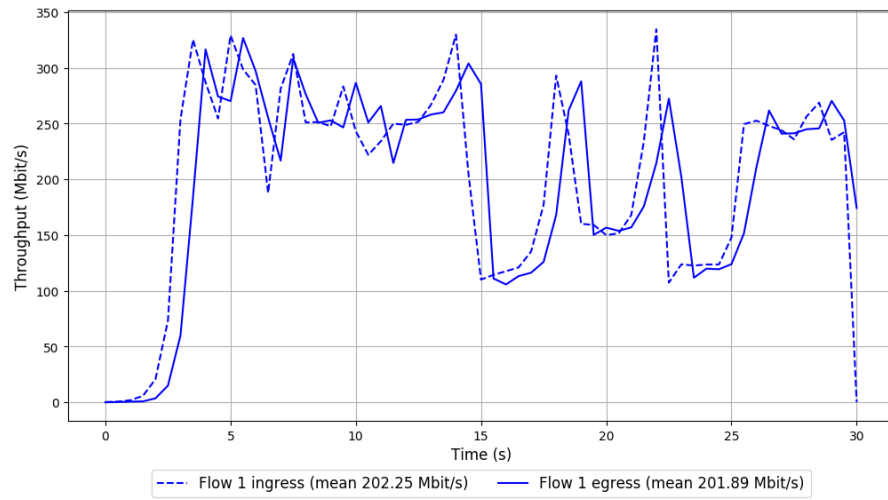


Run 1: Statistics of Copa

Start at: 2019-10-03 05:42:51
End at: 2019-10-03 05:43:21
Local clock offset: 0.417 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2019-10-03 08:50:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 201.89 Mbit/s
95th percentile per-packet one-way delay: 223.780 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 201.89 Mbit/s
95th percentile per-packet one-way delay: 223.780 ms
Loss rate: 1.06%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-10-03 06:18:37

End at: 2019-10-03 06:19:07

Local clock offset: -0.251 ms

Remote clock offset: 0.023 ms

Below is generated by plot.py at 2019-10-03 08:50:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.03 Mbit/s

95th percentile per-packet one-way delay: 240.804 ms

Loss rate: 0.92%

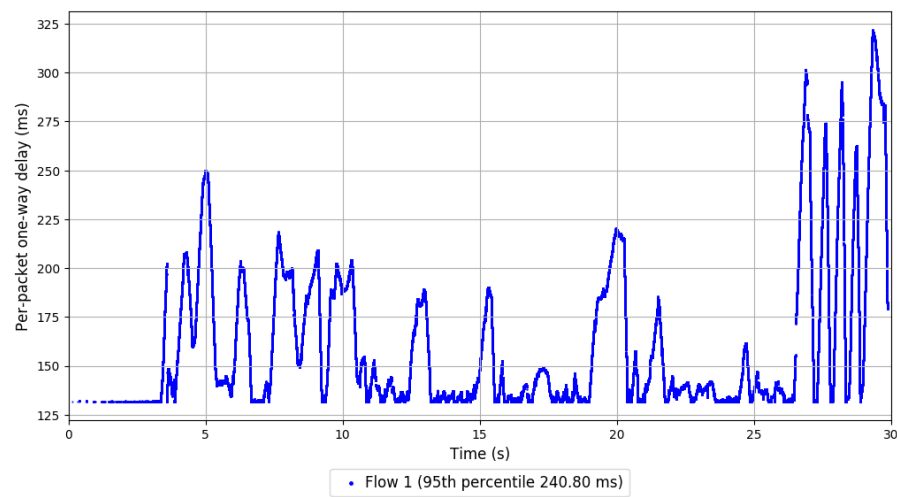
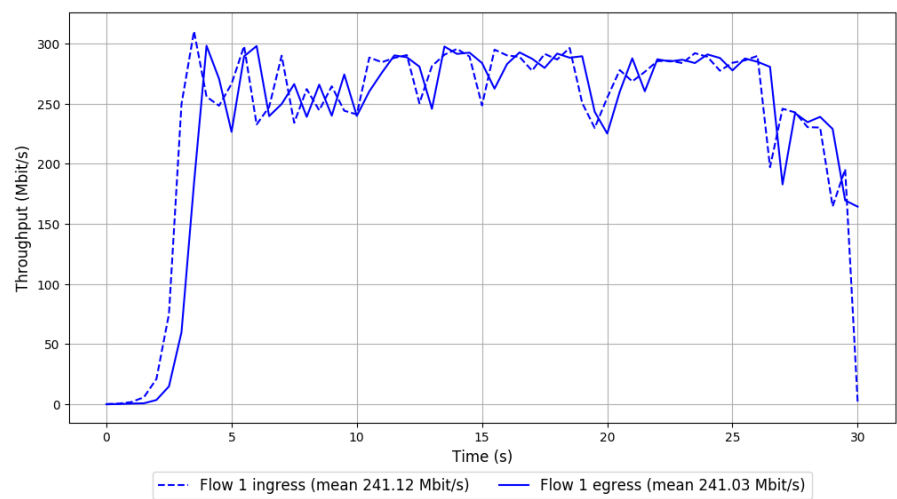
-- Flow 1:

Average throughput: 241.03 Mbit/s

95th percentile per-packet one-way delay: 240.804 ms

Loss rate: 0.92%

Run 2: Report of Copa — Data Link

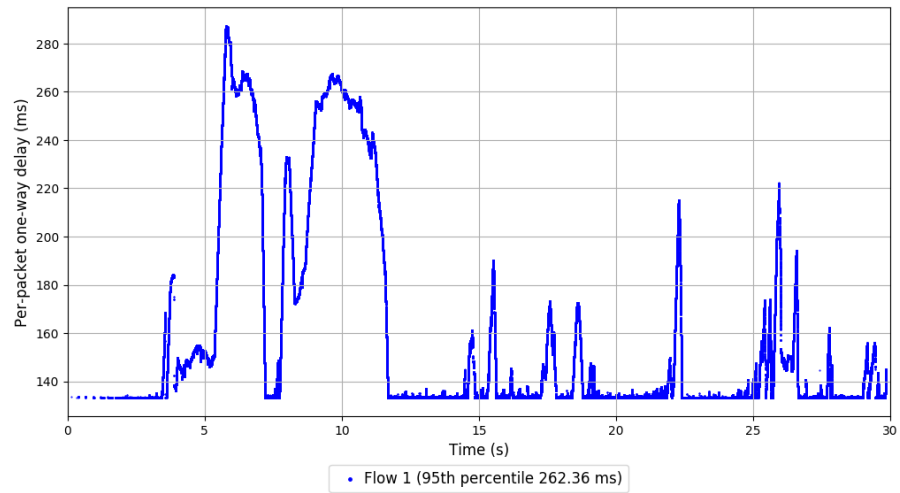
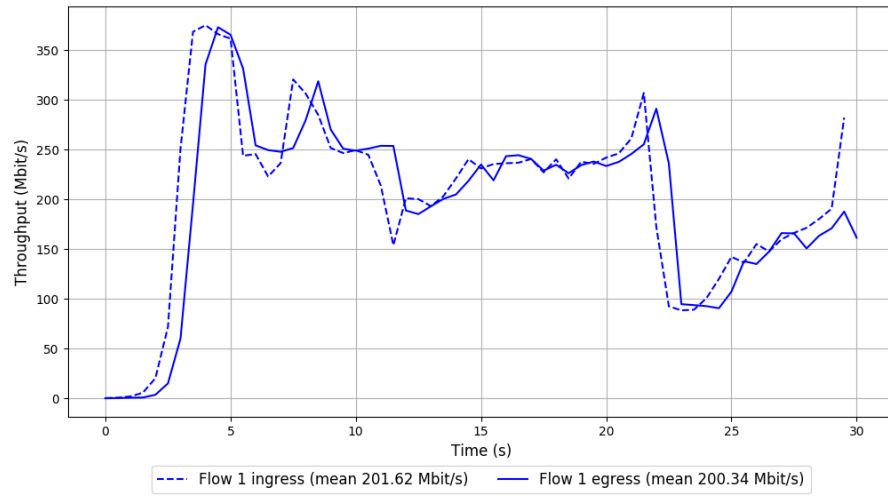


Run 3: Statistics of Copa

Start at: 2019-10-03 06:54:36
End at: 2019-10-03 06:55:06
Local clock offset: 0.202 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2019-10-03 08:50:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 200.34 Mbit/s
95th percentile per-packet one-way delay: 262.364 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 200.34 Mbit/s
95th percentile per-packet one-way delay: 262.364 ms
Loss rate: 1.52%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-10-03 07:30:27

End at: 2019-10-03 07:30:57

Local clock offset: 0.384 ms

Remote clock offset: -0.44 ms

Below is generated by plot.py at 2019-10-03 08:58:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 238.50 Mbit/s

95th percentile per-packet one-way delay: 193.664 ms

Loss rate: 1.06%

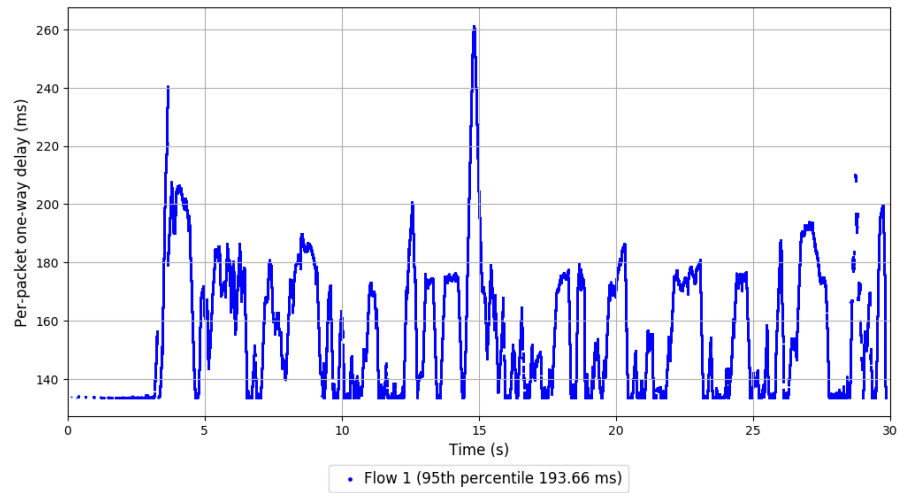
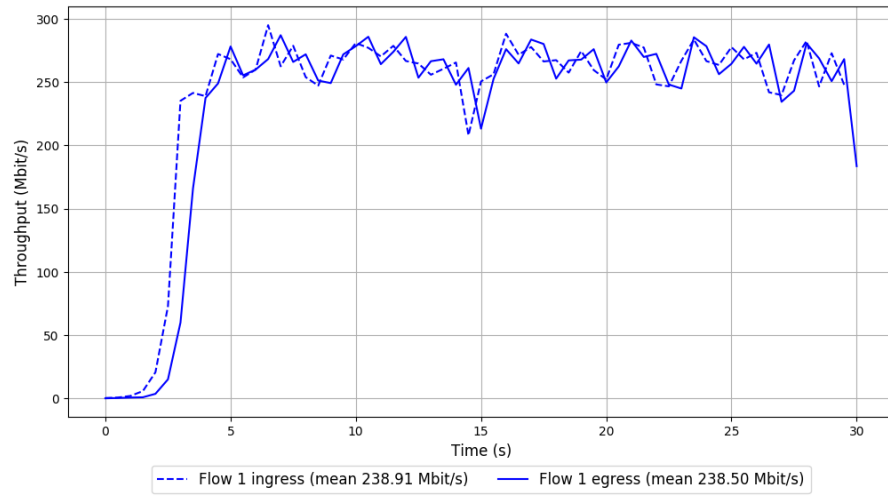
-- Flow 1:

Average throughput: 238.50 Mbit/s

95th percentile per-packet one-way delay: 193.664 ms

Loss rate: 1.06%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-10-03 08:06:04

End at: 2019-10-03 08:06:34

Local clock offset: 0.423 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2019-10-03 08:58:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.73 Mbit/s

95th percentile per-packet one-way delay: 251.486 ms

Loss rate: 1.31%

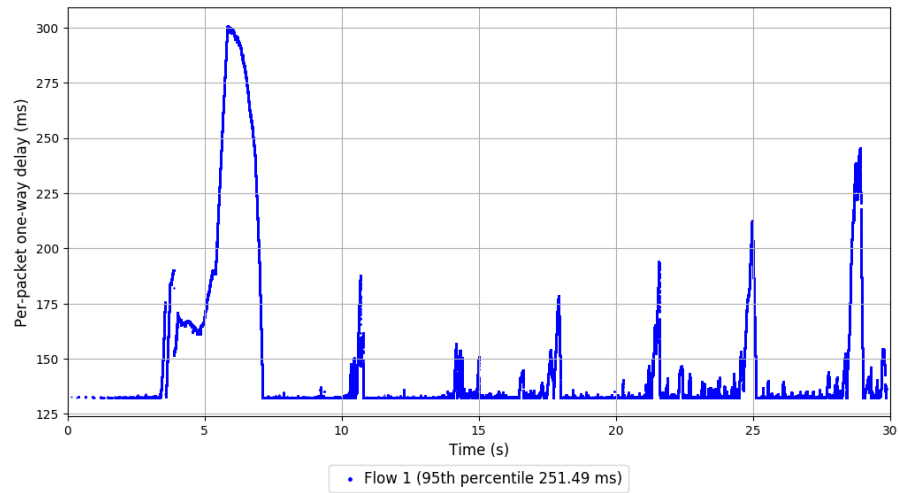
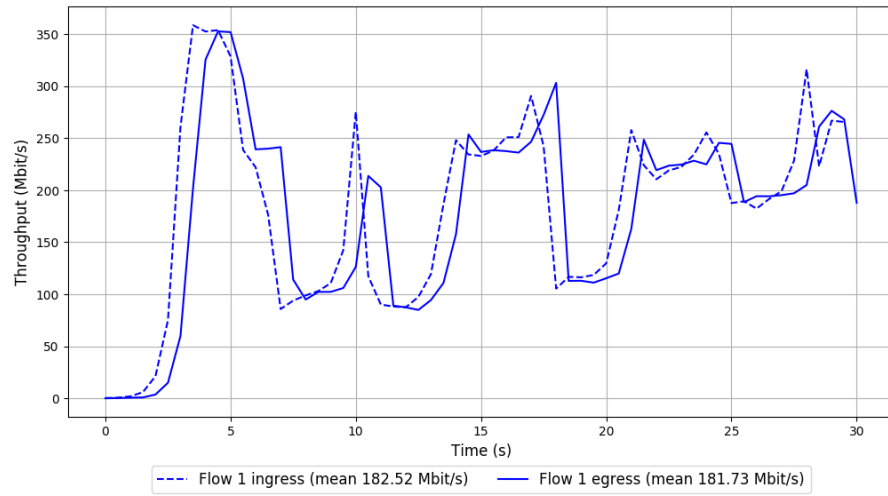
-- Flow 1:

Average throughput: 181.73 Mbit/s

95th percentile per-packet one-way delay: 251.486 ms

Loss rate: 1.31%

Run 5: Report of Copa — Data Link

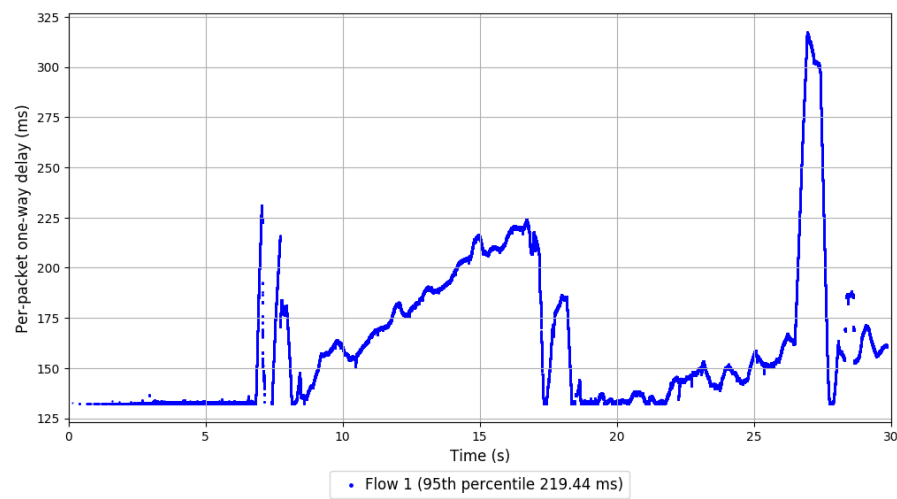
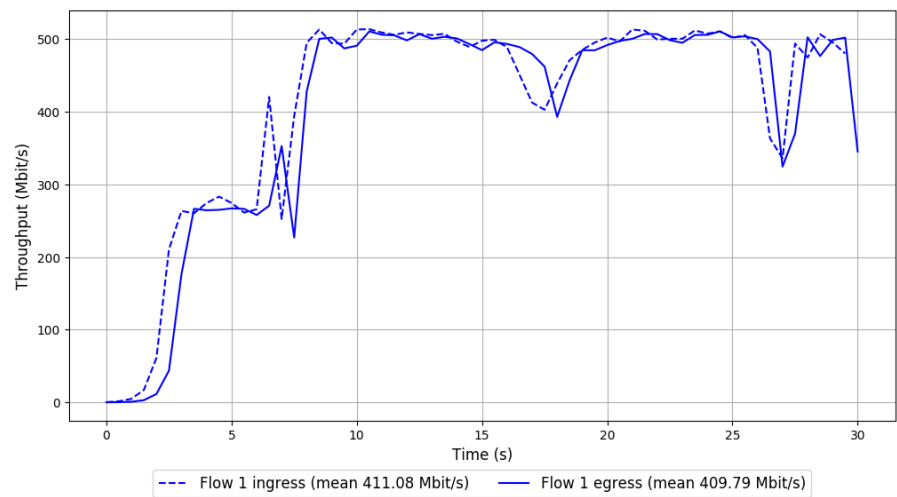


Run 1: Statistics of TCP Cubic

Start at: 2019-10-03 05:56:42
End at: 2019-10-03 05:57:12
Local clock offset: 0.041 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2019-10-03 08:58:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 409.79 Mbit/s
95th percentile per-packet one-way delay: 219.435 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 409.79 Mbit/s
95th percentile per-packet one-way delay: 219.435 ms
Loss rate: 1.20%

Run 1: Report of TCP Cubic — Data Link

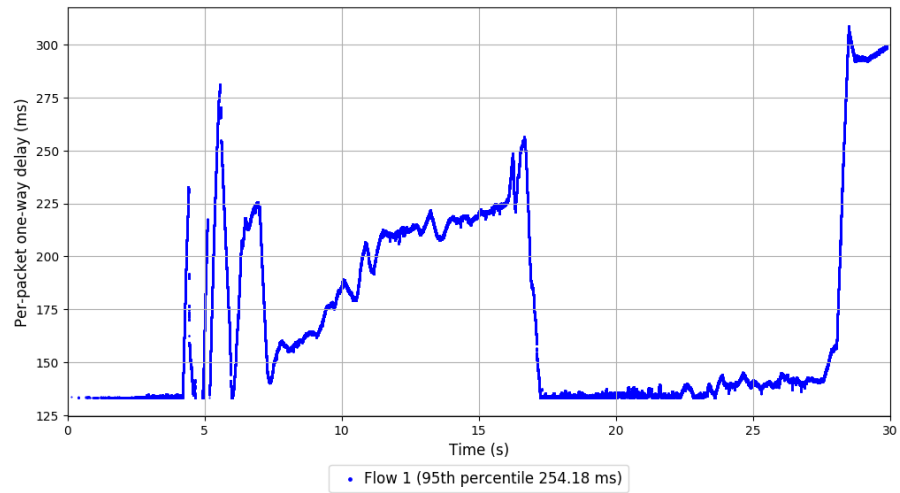
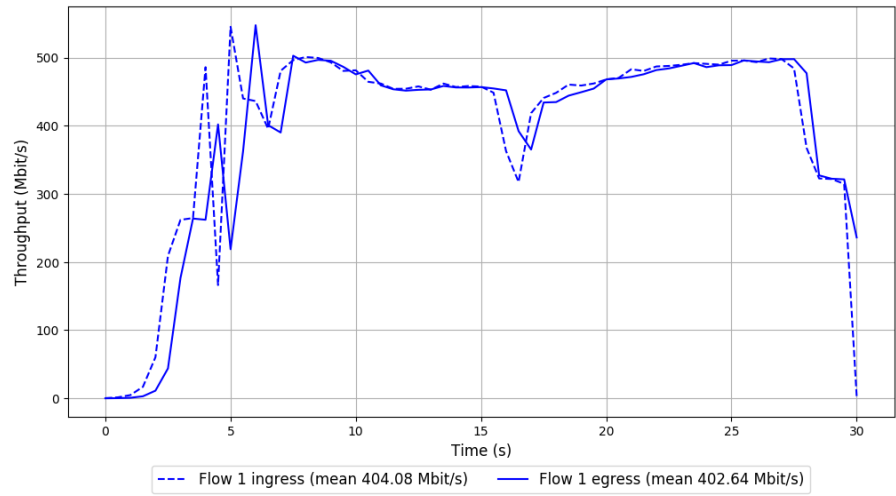


Run 2: Statistics of TCP Cubic

Start at: 2019-10-03 06:32:46
End at: 2019-10-03 06:33:16
Local clock offset: 0.37 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2019-10-03 08:58:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 402.64 Mbit/s
95th percentile per-packet one-way delay: 254.176 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 402.64 Mbit/s
95th percentile per-packet one-way delay: 254.176 ms
Loss rate: 1.24%

Run 2: Report of TCP Cubic — Data Link

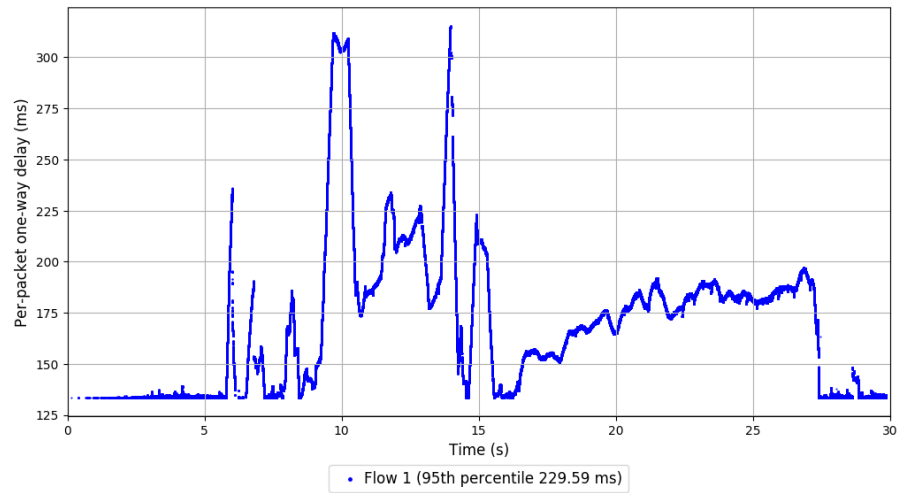
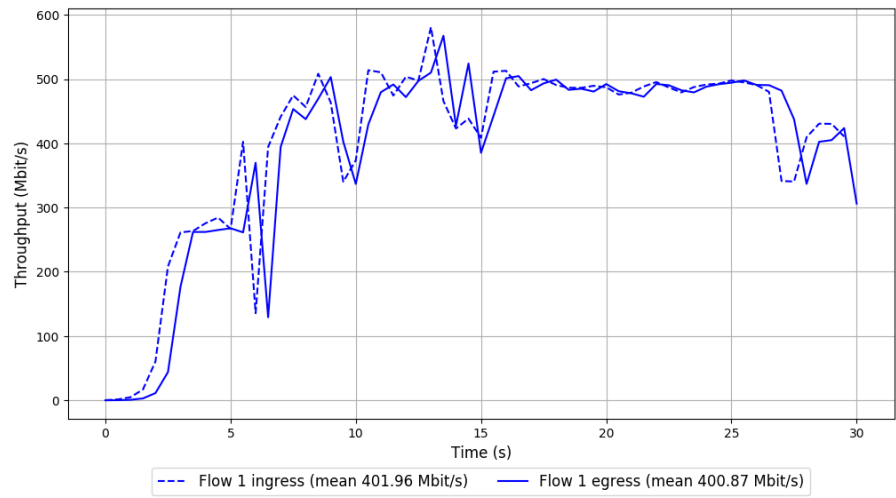


Run 3: Statistics of TCP Cubic

Start at: 2019-10-03 07:08:39
End at: 2019-10-03 07:09:09
Local clock offset: 0.348 ms
Remote clock offset: -0.054 ms

Below is generated by plot.py at 2019-10-03 08:58:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 400.87 Mbit/s
95th percentile per-packet one-way delay: 229.590 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 400.87 Mbit/s
95th percentile per-packet one-way delay: 229.590 ms
Loss rate: 1.15%

Run 3: Report of TCP Cubic — Data Link

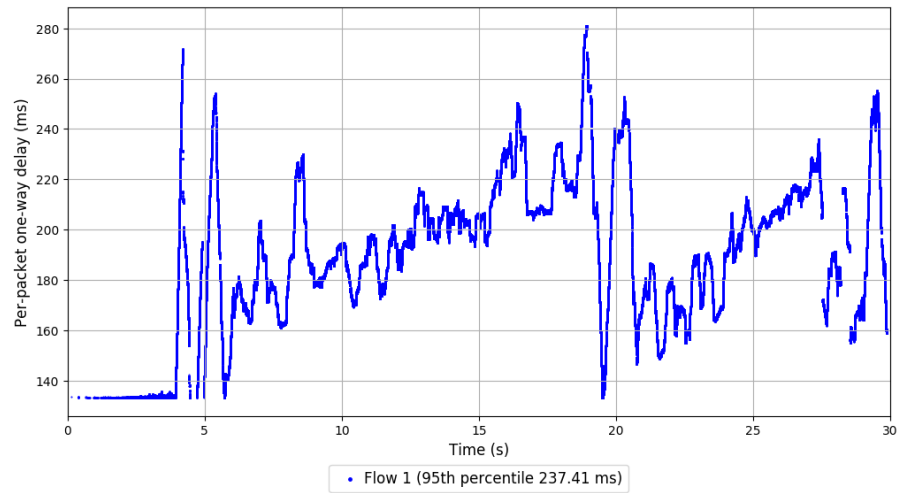
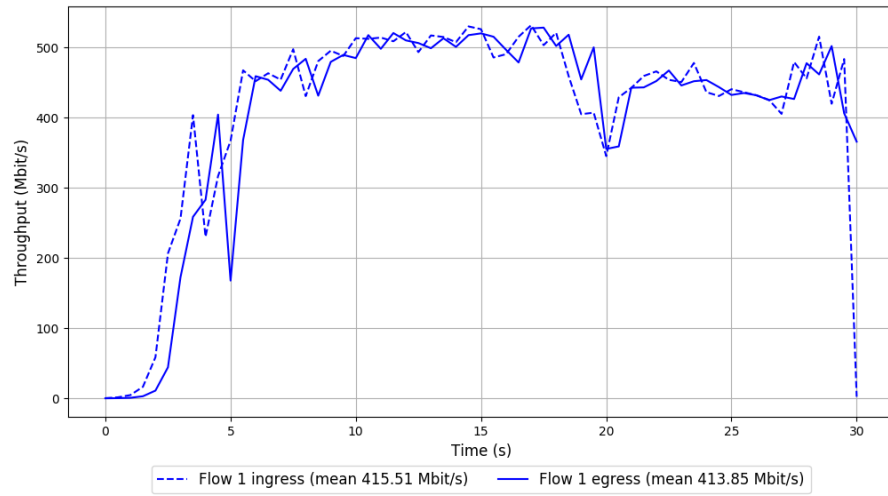


Run 4: Statistics of TCP Cubic

Start at: 2019-10-03 07:44:29
End at: 2019-10-03 07:44:59
Local clock offset: 0.2 ms
Remote clock offset: -0.001 ms

Below is generated by plot.py at 2019-10-03 08:59:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 413.85 Mbit/s
95th percentile per-packet one-way delay: 237.410 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 413.85 Mbit/s
95th percentile per-packet one-way delay: 237.410 ms
Loss rate: 1.28%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-10-03 08:19:51

End at: 2019-10-03 08:20:21

Local clock offset: -0.282 ms

Remote clock offset: 0.028 ms

Below is generated by plot.py at 2019-10-03 08:59:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 411.73 Mbit/s

95th percentile per-packet one-way delay: 242.485 ms

Loss rate: 1.27%

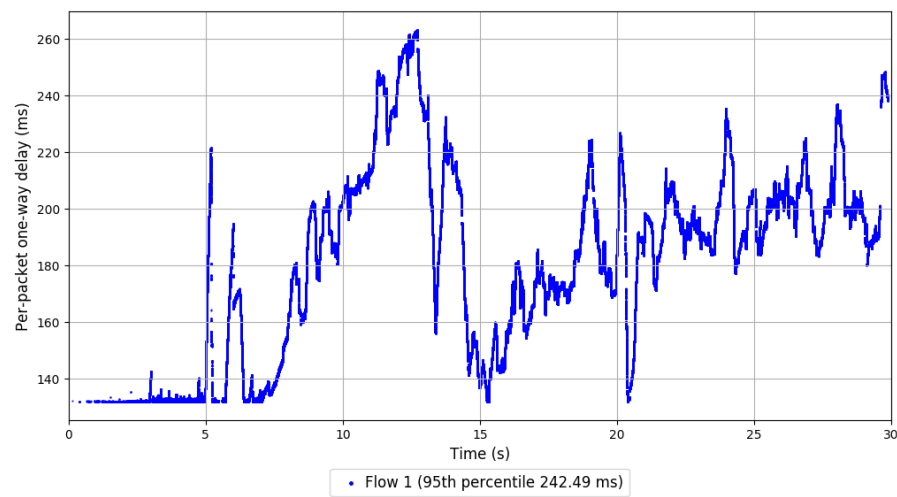
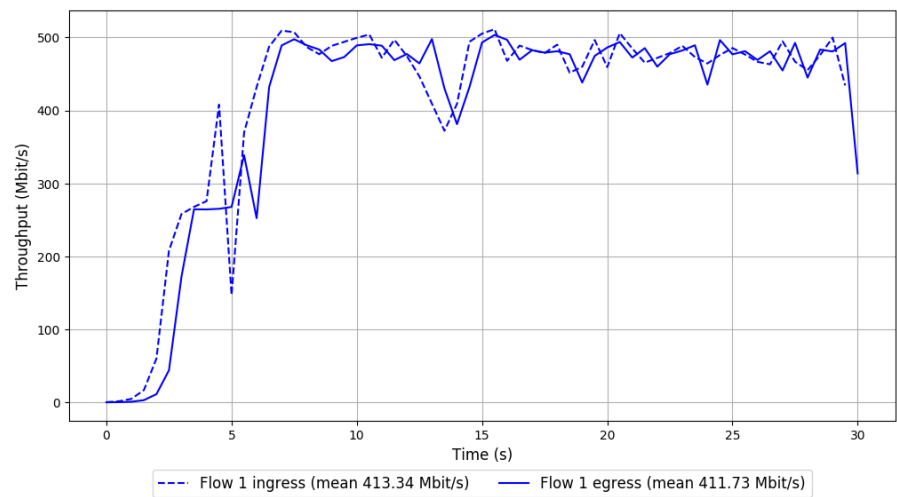
-- Flow 1:

Average throughput: 411.73 Mbit/s

95th percentile per-packet one-way delay: 242.485 ms

Loss rate: 1.27%

Run 5: Report of TCP Cubic — Data Link

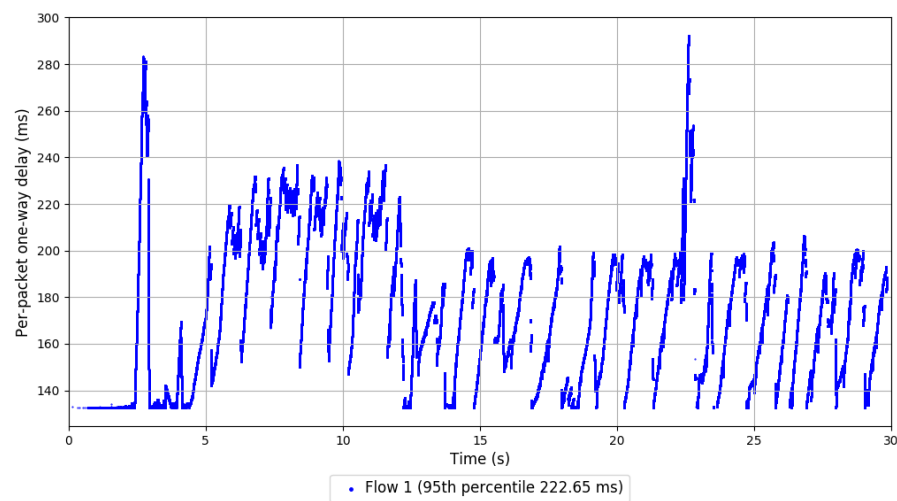
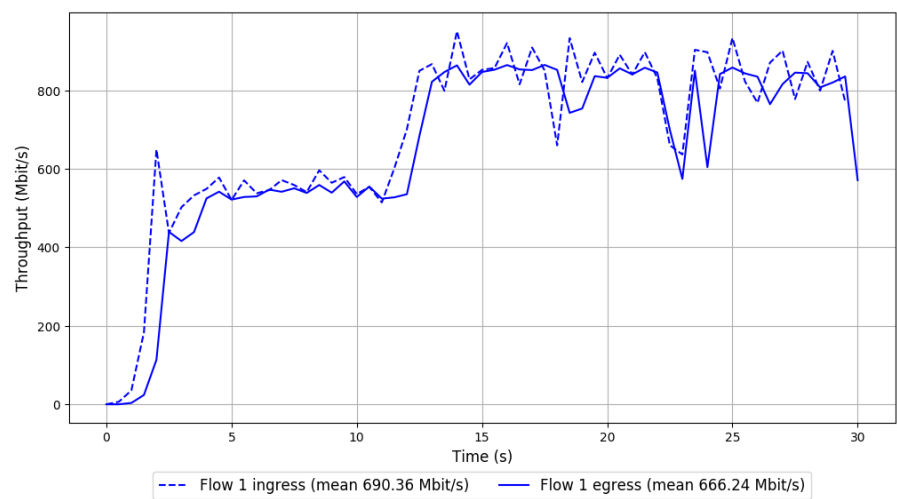


Run 1: Statistics of FillP

Start at: 2019-10-03 05:50:30
End at: 2019-10-03 05:51:00
Local clock offset: 0.016 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2019-10-03 09:07:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 666.24 Mbit/s
95th percentile per-packet one-way delay: 222.653 ms
Loss rate: 4.35%
-- Flow 1:
Average throughput: 666.24 Mbit/s
95th percentile per-packet one-way delay: 222.653 ms
Loss rate: 4.35%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-10-03 06:26:21

End at: 2019-10-03 06:26:51

Local clock offset: 0.236 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2019-10-03 09:17:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 792.15 Mbit/s

95th percentile per-packet one-way delay: 194.828 ms

Loss rate: 3.48%

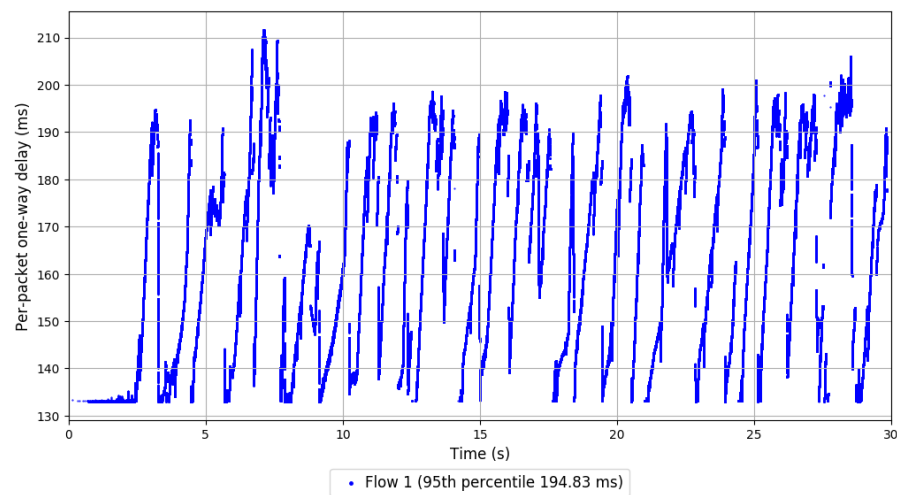
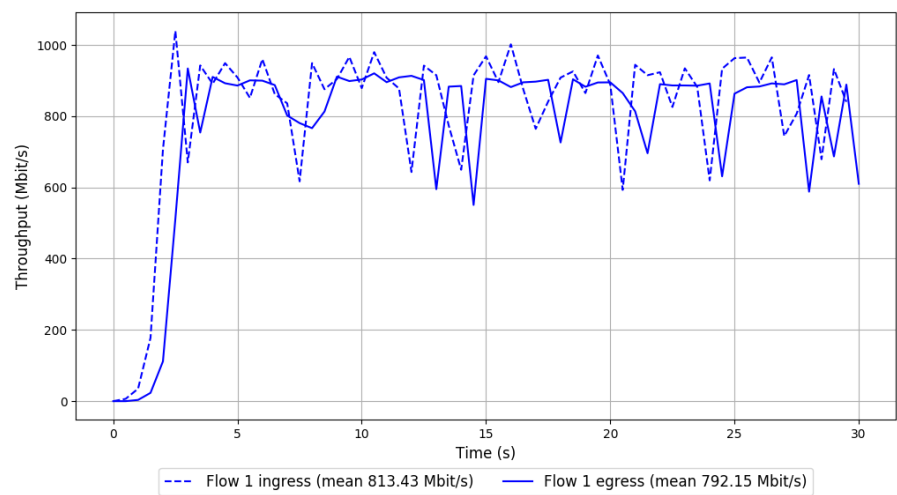
-- Flow 1:

Average throughput: 792.15 Mbit/s

95th percentile per-packet one-way delay: 194.828 ms

Loss rate: 3.48%

Run 2: Report of FillP — Data Link

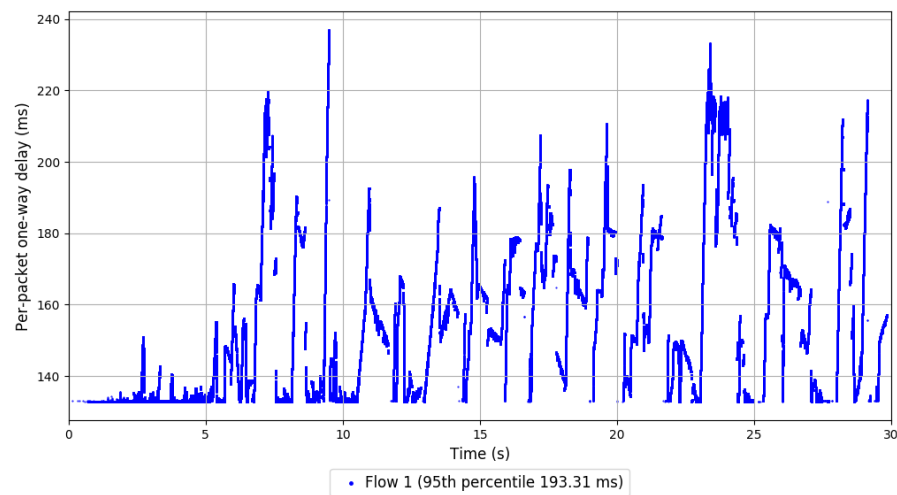
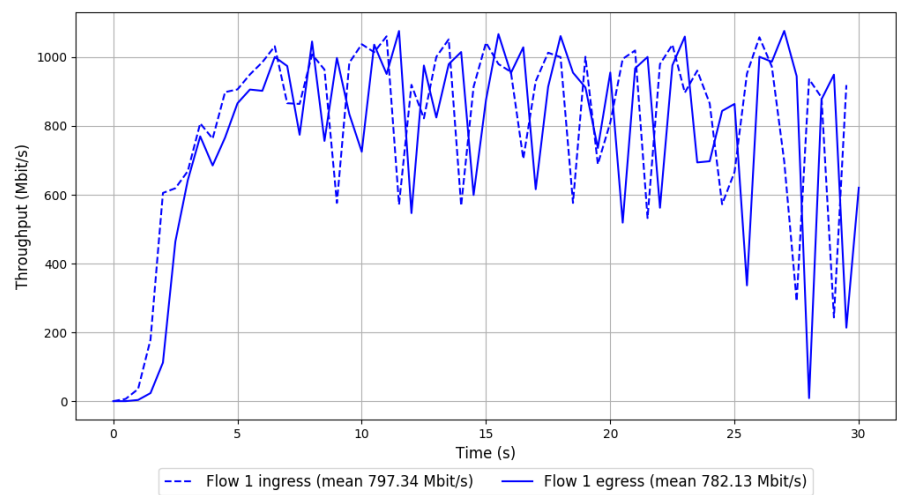


Run 3: Statistics of FillP

Start at: 2019-10-03 07:02:20
End at: 2019-10-03 07:02:50
Local clock offset: -0.02 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2019-10-03 09:18:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 782.13 Mbit/s
95th percentile per-packet one-way delay: 193.308 ms
Loss rate: 2.78%
-- Flow 1:
Average throughput: 782.13 Mbit/s
95th percentile per-packet one-way delay: 193.308 ms
Loss rate: 2.78%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-10-03 07:38:14

End at: 2019-10-03 07:38:44

Local clock offset: 0.372 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2019-10-03 09:18:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 713.31 Mbit/s

95th percentile per-packet one-way delay: 216.823 ms

Loss rate: 8.07%

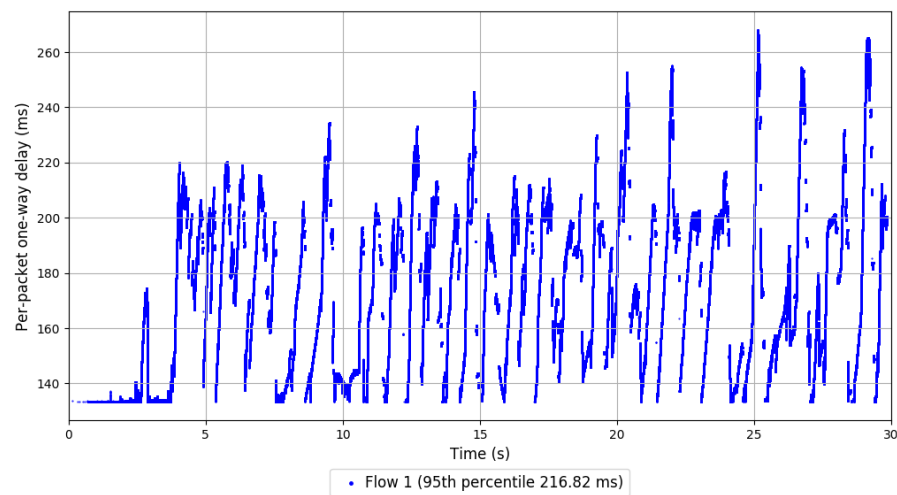
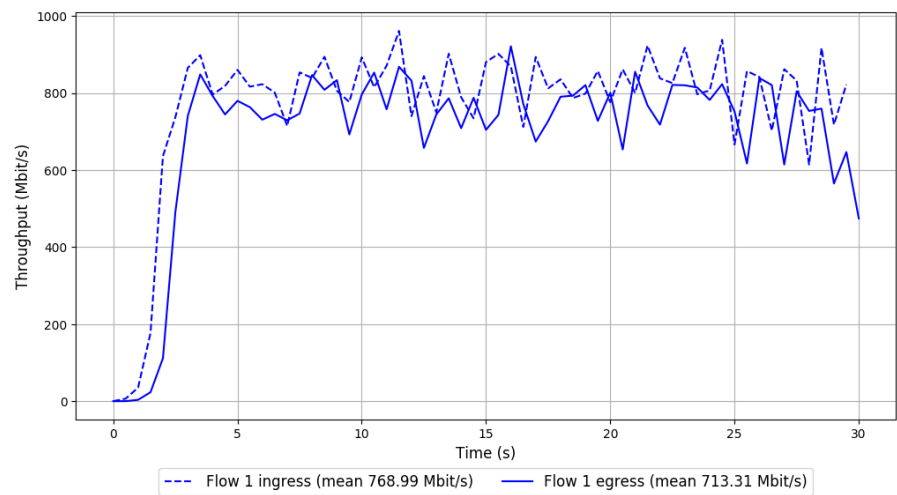
-- Flow 1:

Average throughput: 713.31 Mbit/s

95th percentile per-packet one-way delay: 216.823 ms

Loss rate: 8.07%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-10-03 08:13:38

End at: 2019-10-03 08:14:08

Local clock offset: 0.066 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2019-10-03 09:18:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 750.96 Mbit/s

95th percentile per-packet one-way delay: 182.418 ms

Loss rate: 1.21%

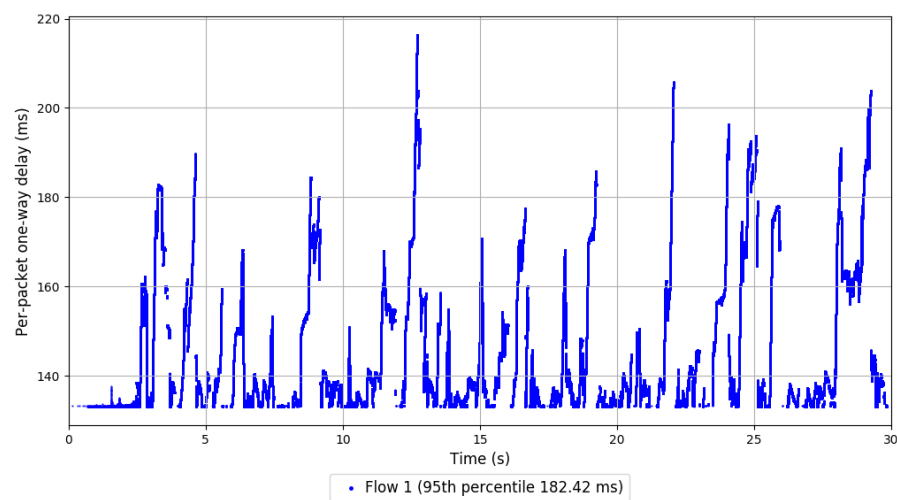
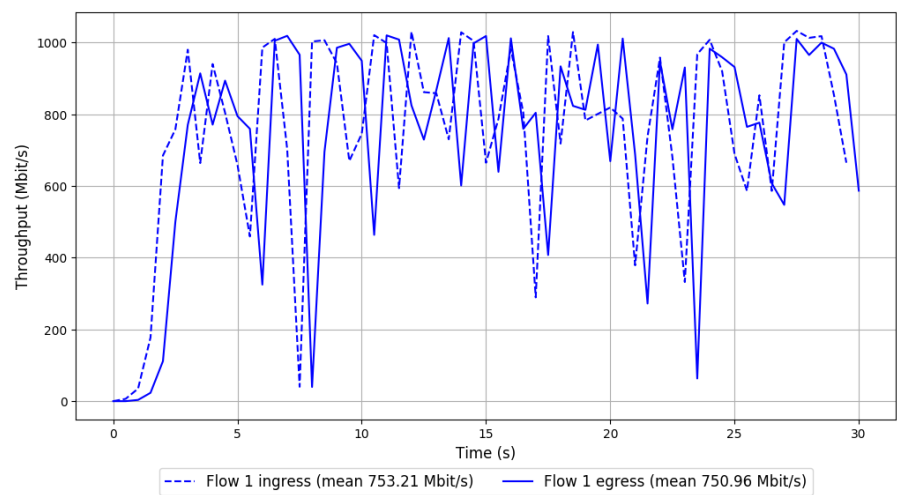
-- Flow 1:

Average throughput: 750.96 Mbit/s

95th percentile per-packet one-way delay: 182.418 ms

Loss rate: 1.21%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-10-03 05:46:02

End at: 2019-10-03 05:46:32

Local clock offset: 0.273 ms

Remote clock offset: -0.047 ms

Below is generated by plot.py at 2019-10-03 09:18:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 767.56 Mbit/s

95th percentile per-packet one-way delay: 184.492 ms

Loss rate: 1.59%

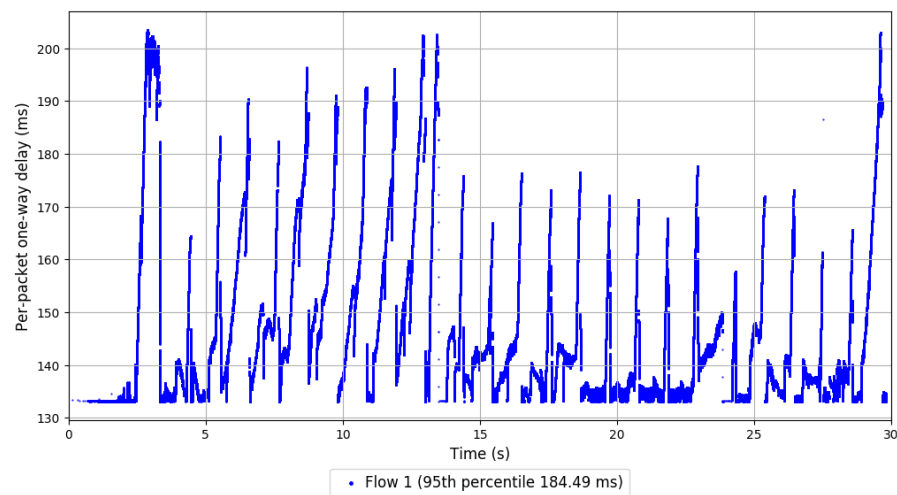
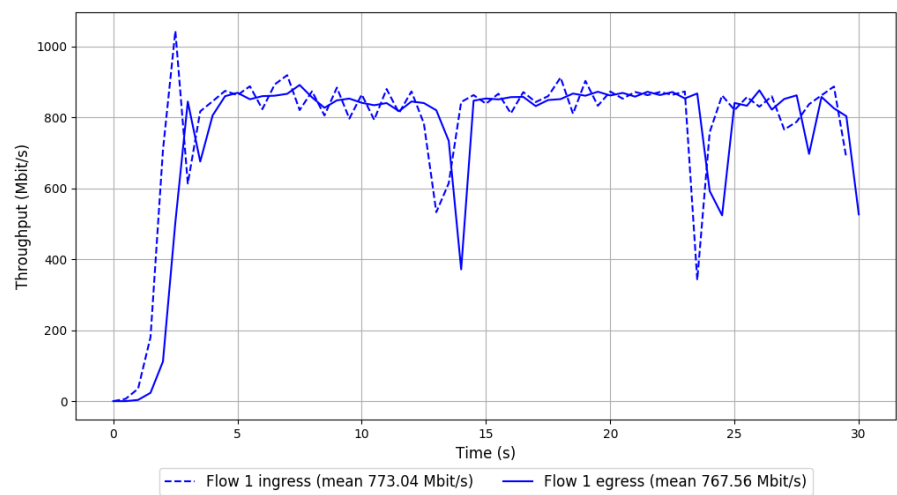
-- Flow 1:

Average throughput: 767.56 Mbit/s

95th percentile per-packet one-way delay: 184.492 ms

Loss rate: 1.59%

Run 1: Report of FillP-Sheep — Data Link

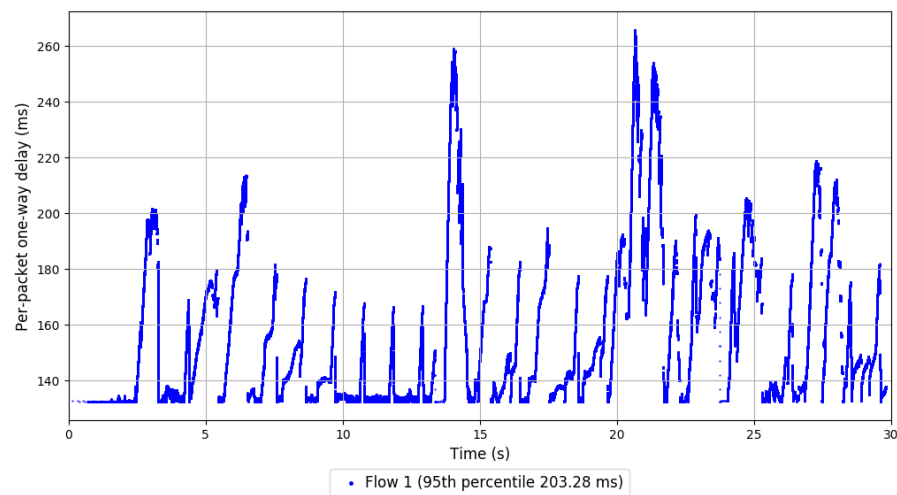
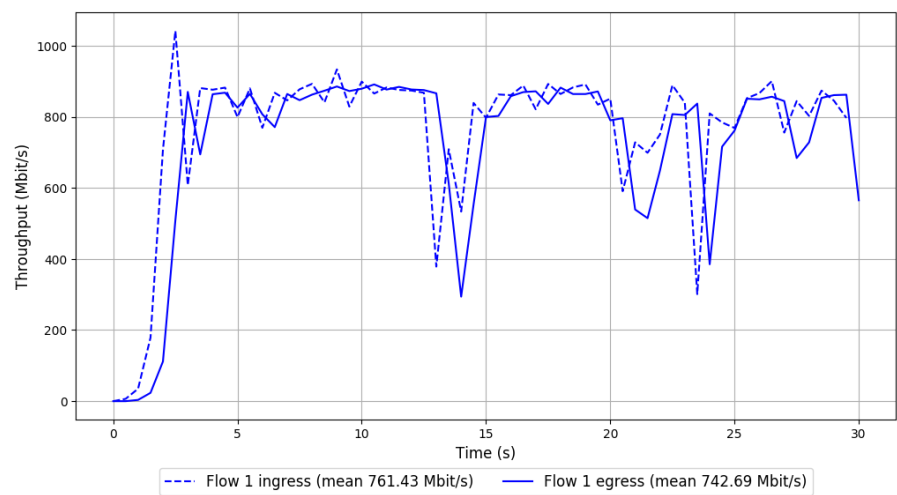


Run 2: Statistics of FillP-Sheep

Start at: 2019-10-03 06:21:52
End at: 2019-10-03 06:22:22
Local clock offset: -0.421 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2019-10-03 09:18:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 742.69 Mbit/s
95th percentile per-packet one-way delay: 203.282 ms
Loss rate: 3.33%
-- Flow 1:
Average throughput: 742.69 Mbit/s
95th percentile per-packet one-way delay: 203.282 ms
Loss rate: 3.33%

Run 2: Report of FillP-Sheep — Data Link

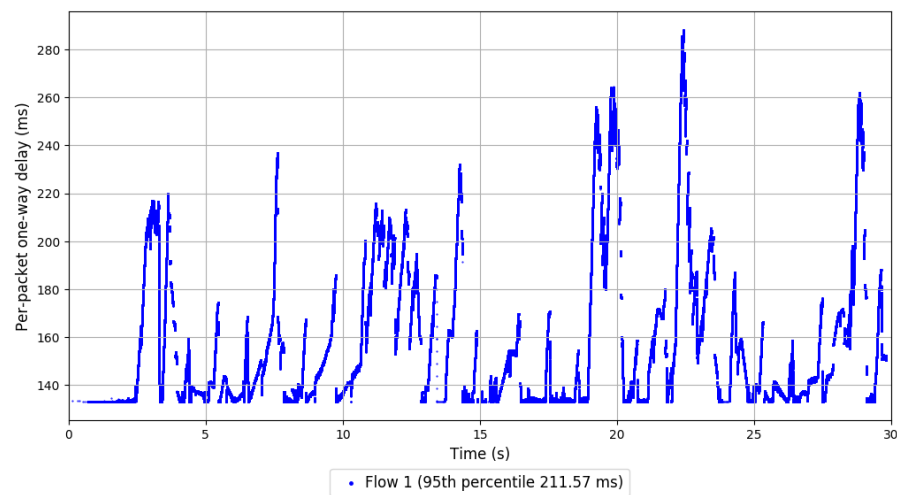
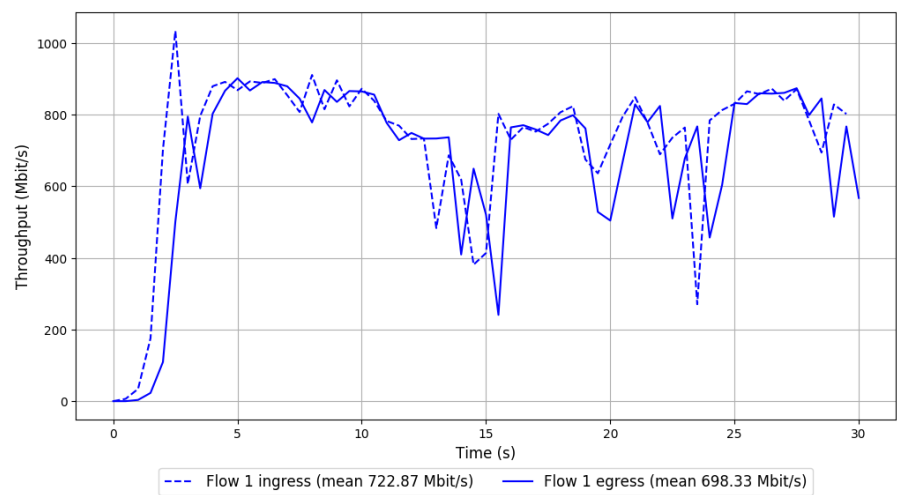


Run 3: Statistics of FillP-Sheep

Start at: 2019-10-03 06:57:47
End at: 2019-10-03 06:58:17
Local clock offset: -0.042 ms
Remote clock offset: -0.405 ms

Below is generated by plot.py at 2019-10-03 09:18:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 698.33 Mbit/s
95th percentile per-packet one-way delay: 211.571 ms
Loss rate: 4.26%
-- Flow 1:
Average throughput: 698.33 Mbit/s
95th percentile per-packet one-way delay: 211.571 ms
Loss rate: 4.26%

Run 3: Report of FillP-Sheep — Data Link

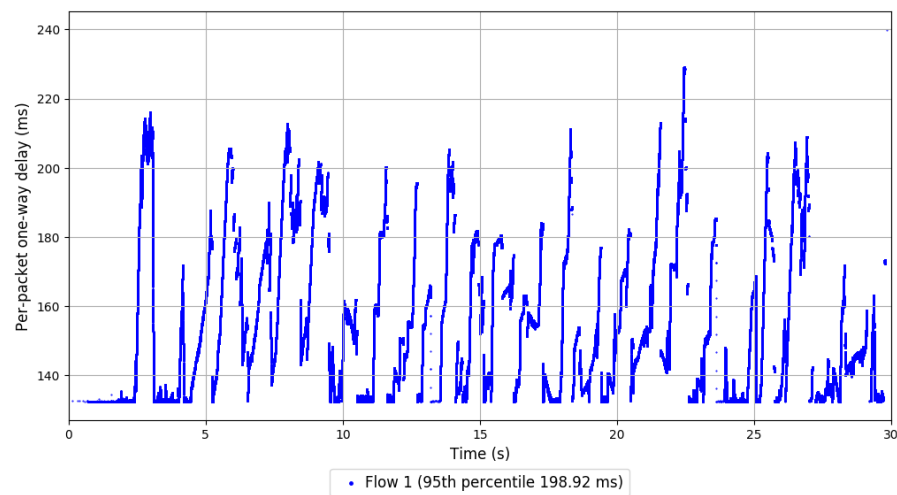
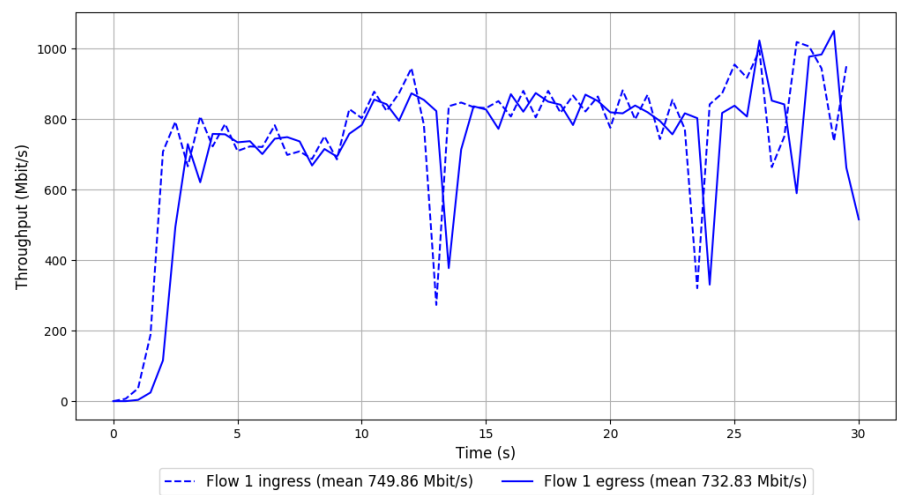


Run 4: Statistics of FillP-Sheep

Start at: 2019-10-03 07:33:42
End at: 2019-10-03 07:34:12
Local clock offset: 0.35 ms
Remote clock offset: -0.048 ms

Below is generated by plot.py at 2019-10-03 09:28:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 732.83 Mbit/s
95th percentile per-packet one-way delay: 198.920 ms
Loss rate: 3.09%
-- Flow 1:
Average throughput: 732.83 Mbit/s
95th percentile per-packet one-way delay: 198.920 ms
Loss rate: 3.09%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-10-03 08:09:12

End at: 2019-10-03 08:09:42

Local clock offset: 0.001 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2019-10-03 09:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 685.15 Mbit/s

95th percentile per-packet one-way delay: 202.044 ms

Loss rate: 2.10%

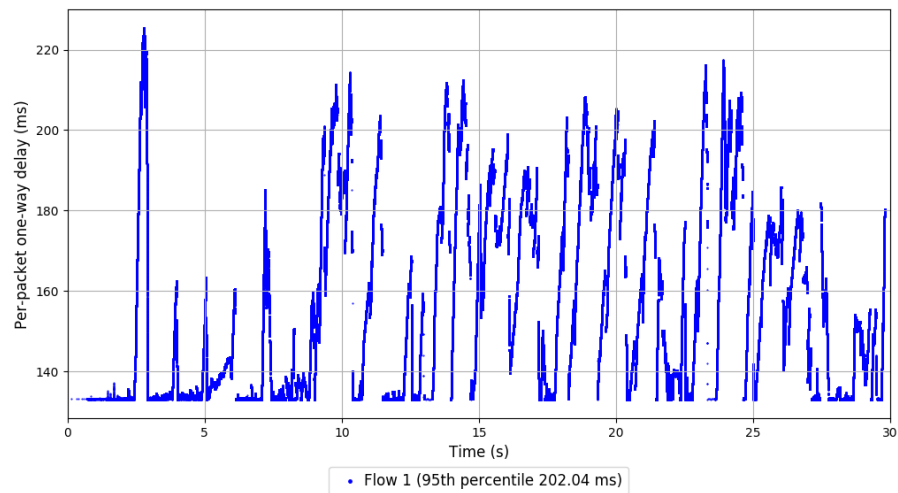
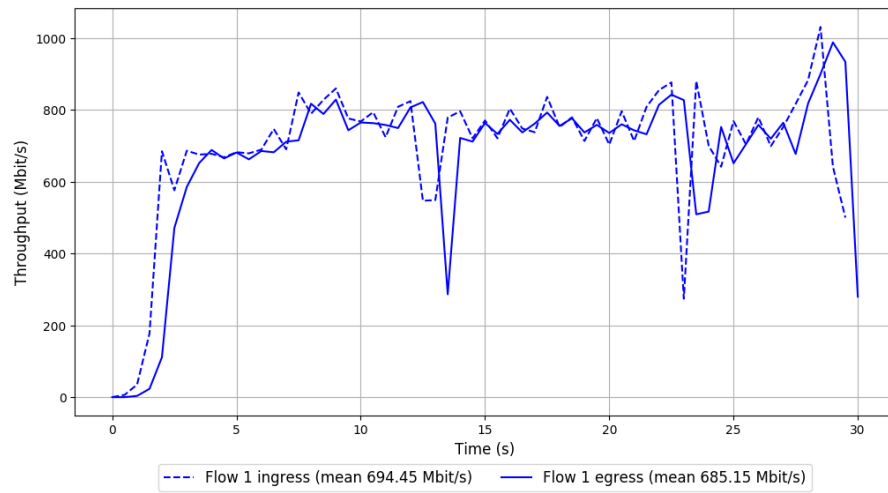
-- Flow 1:

Average throughput: 685.15 Mbit/s

95th percentile per-packet one-way delay: 202.044 ms

Loss rate: 2.10%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-10-03 05:59:55

End at: 2019-10-03 06:00:25

Local clock offset: 0.184 ms

Remote clock offset: -0.032 ms

Below is generated by plot.py at 2019-10-03 09:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 138.17 Mbit/s

95th percentile per-packet one-way delay: 135.680 ms

Loss rate: 1.00%

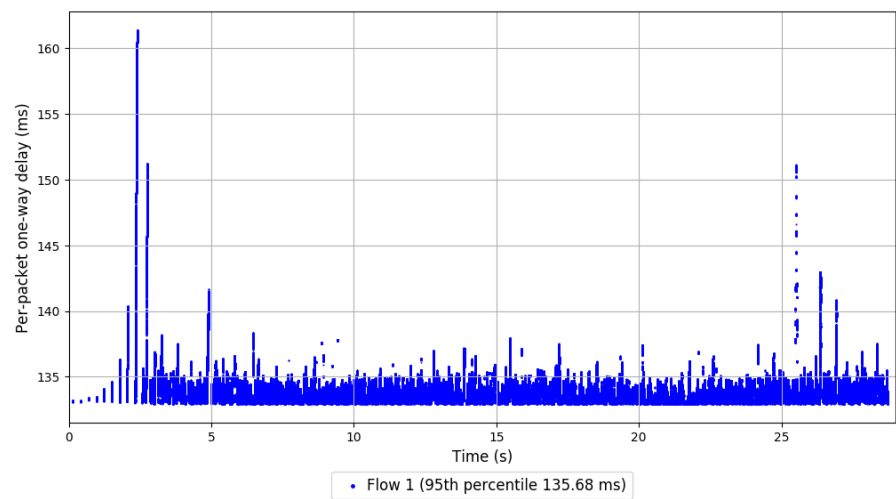
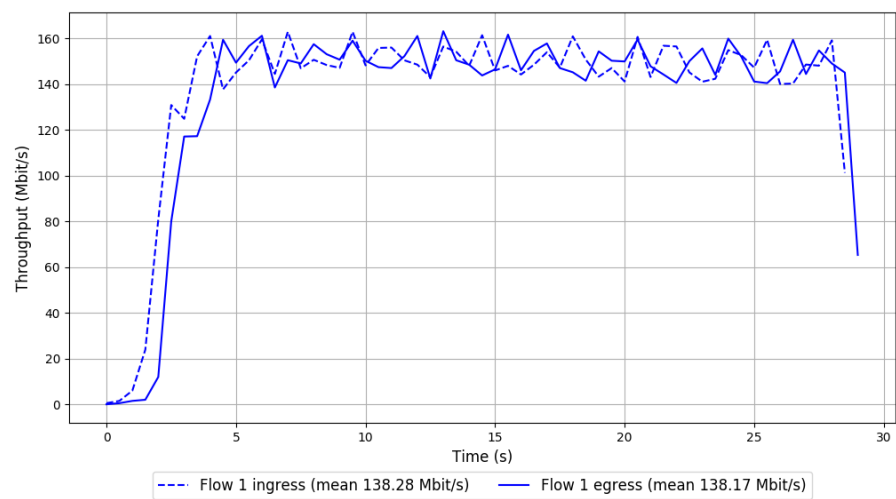
-- Flow 1:

Average throughput: 138.17 Mbit/s

95th percentile per-packet one-way delay: 135.680 ms

Loss rate: 1.00%

Run 1: Report of Indigo — Data Link

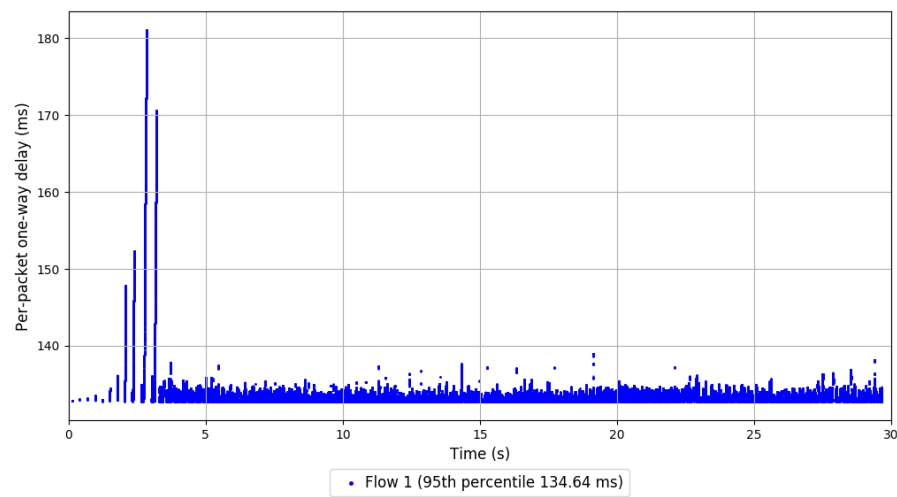
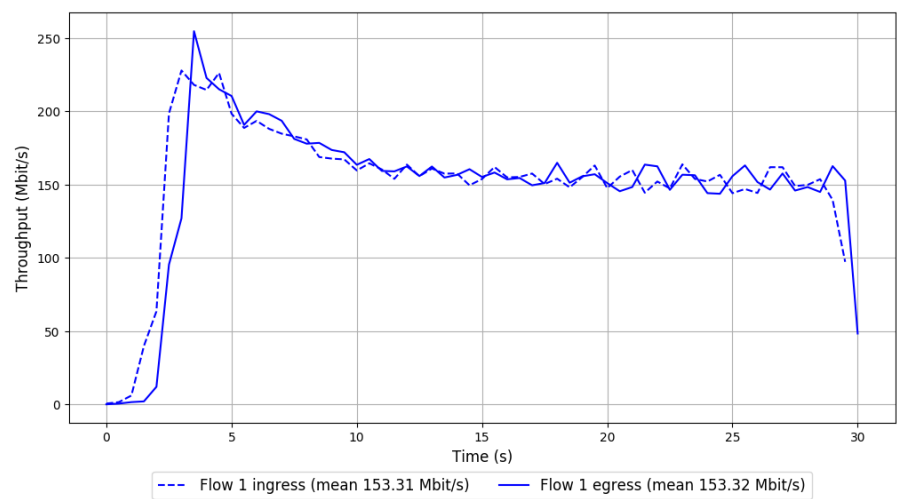


Run 2: Statistics of Indigo

Start at: 2019-10-03 06:35:57
End at: 2019-10-03 06:36:27
Local clock offset: 0.016 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2019-10-03 09:36:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 153.32 Mbit/s
95th percentile per-packet one-way delay: 134.640 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 153.32 Mbit/s
95th percentile per-packet one-way delay: 134.640 ms
Loss rate: 0.88%

Run 2: Report of Indigo — Data Link

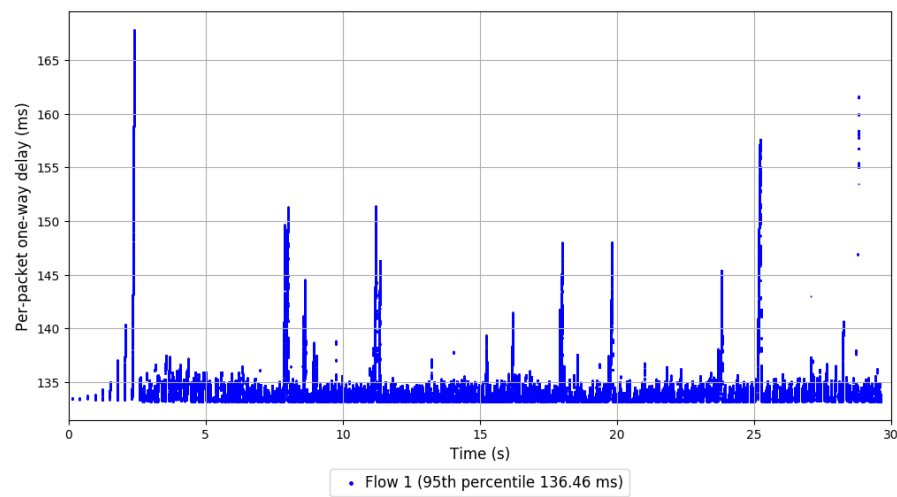
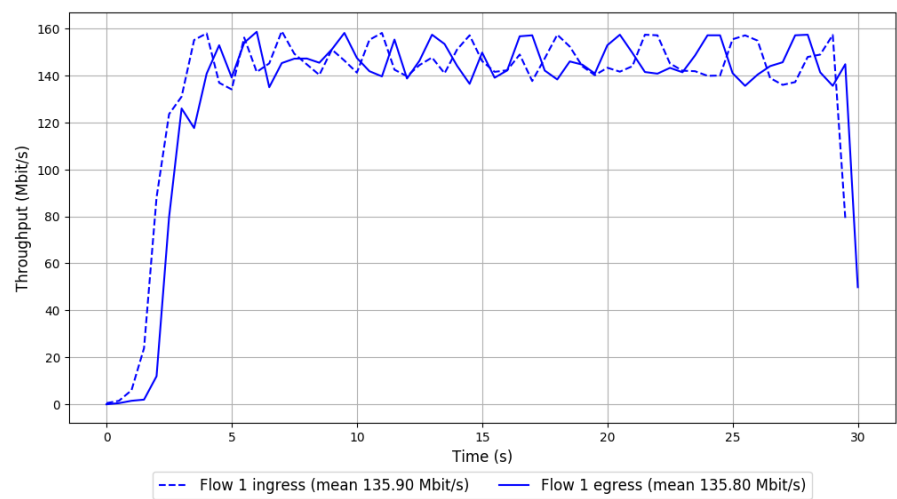


Run 3: Statistics of Indigo

Start at: 2019-10-03 07:11:49
End at: 2019-10-03 07:12:19
Local clock offset: -0.017 ms
Remote clock offset: -0.369 ms

Below is generated by plot.py at 2019-10-03 09:36:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 135.80 Mbit/s
95th percentile per-packet one-way delay: 136.463 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 135.80 Mbit/s
95th percentile per-packet one-way delay: 136.463 ms
Loss rate: 0.98%

Run 3: Report of Indigo — Data Link

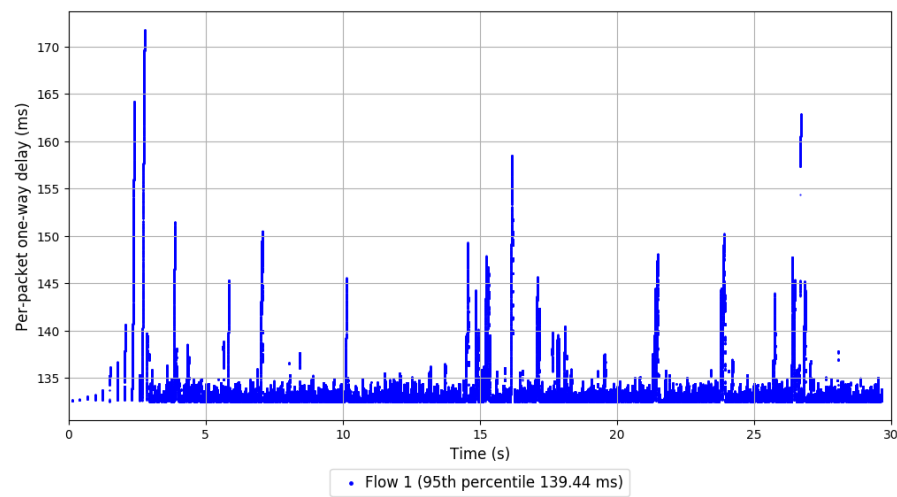
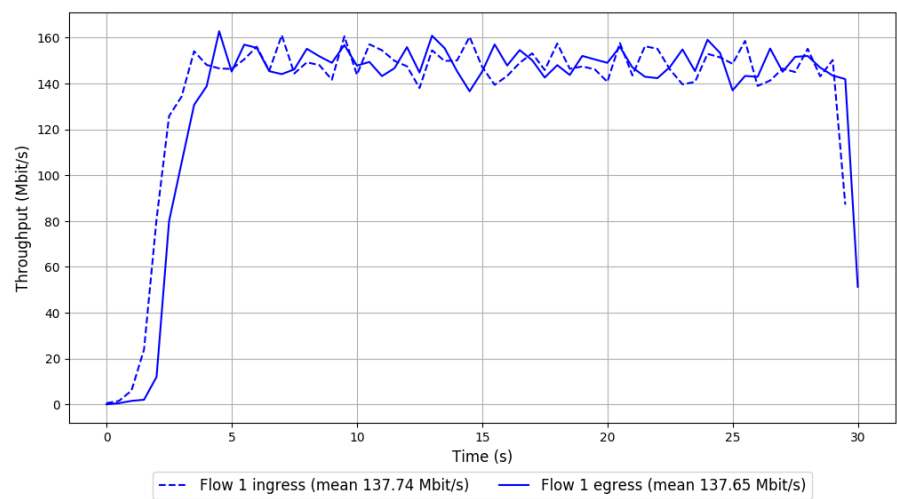


Run 4: Statistics of Indigo

Start at: 2019-10-03 07:47:36
End at: 2019-10-03 07:48:06
Local clock offset: -0.256 ms
Remote clock offset: -0.046 ms

Below is generated by plot.py at 2019-10-03 09:36:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 137.65 Mbit/s
95th percentile per-packet one-way delay: 139.439 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 137.65 Mbit/s
95th percentile per-packet one-way delay: 139.439 ms
Loss rate: 0.96%

Run 4: Report of Indigo — Data Link

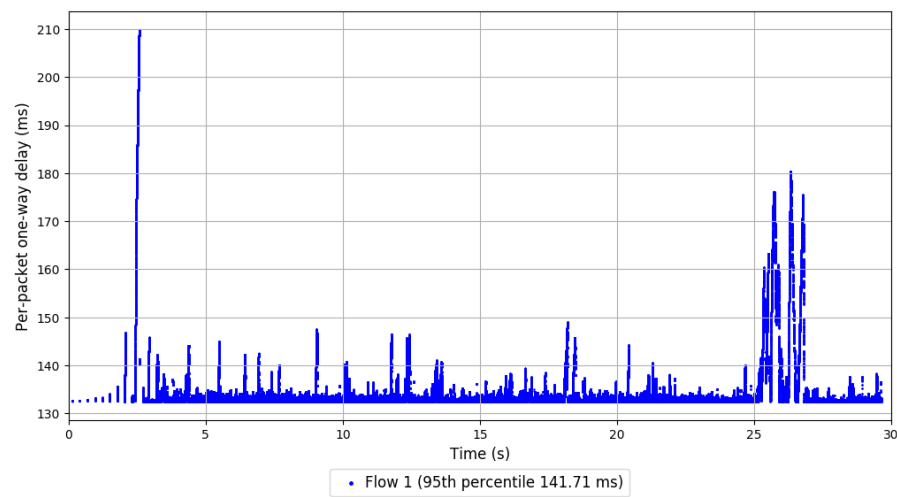
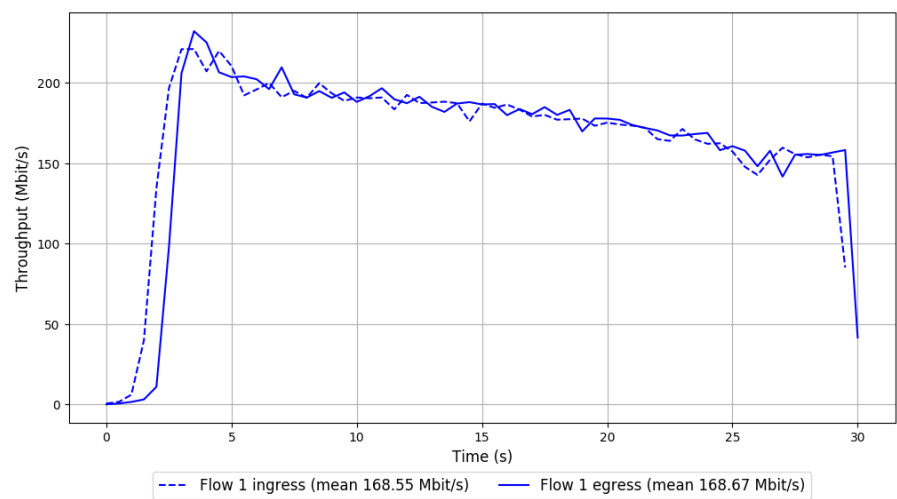


Run 5: Statistics of Indigo

Start at: 2019-10-03 08:23:02
End at: 2019-10-03 08:23:32
Local clock offset: -0.241 ms
Remote clock offset: -0.375 ms

Below is generated by plot.py at 2019-10-03 09:36:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 168.67 Mbit/s
95th percentile per-packet one-way delay: 141.712 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 168.67 Mbit/s
95th percentile per-packet one-way delay: 141.712 ms
Loss rate: 0.82%

Run 5: Report of Indigo — Data Link

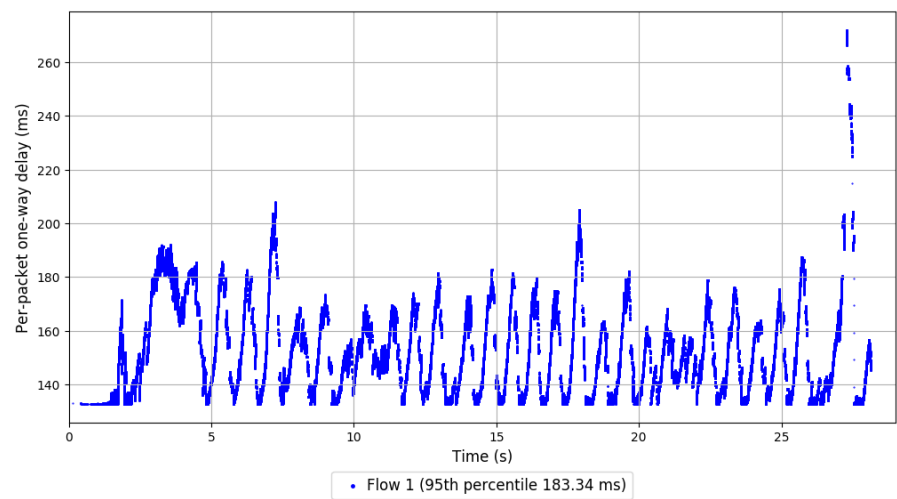
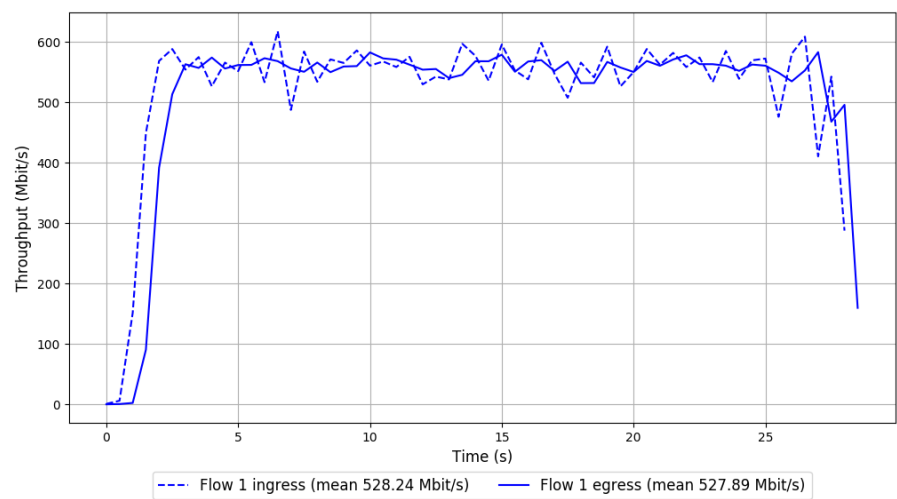


```
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-10-03 05:44:23
End at: 2019-10-03 05:44:53
Local clock offset: -0.12 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-10-03 09:36:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 527.89 Mbit/s
95th percentile per-packet one-way delay: 183.344 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 527.89 Mbit/s
95th percentile per-packet one-way delay: 183.344 ms
Loss rate: 1.01%
```

Run 1: Report of Indigo-MusesC3 — Data Link

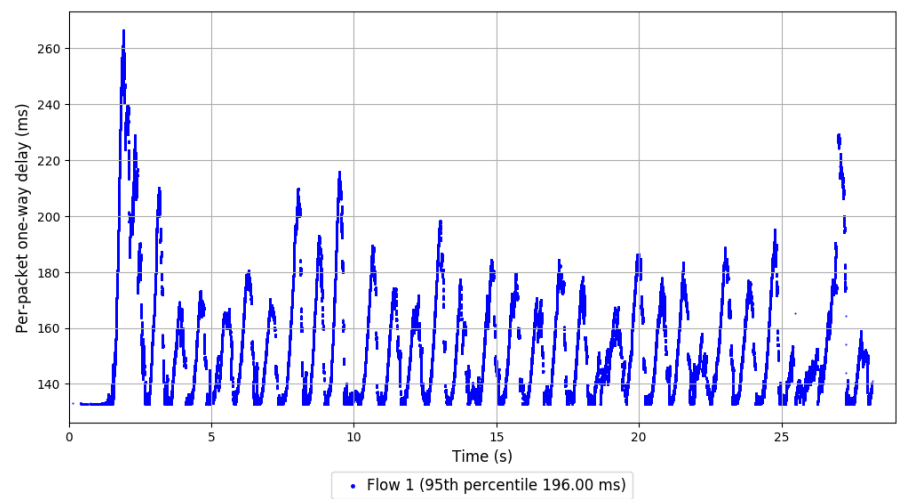
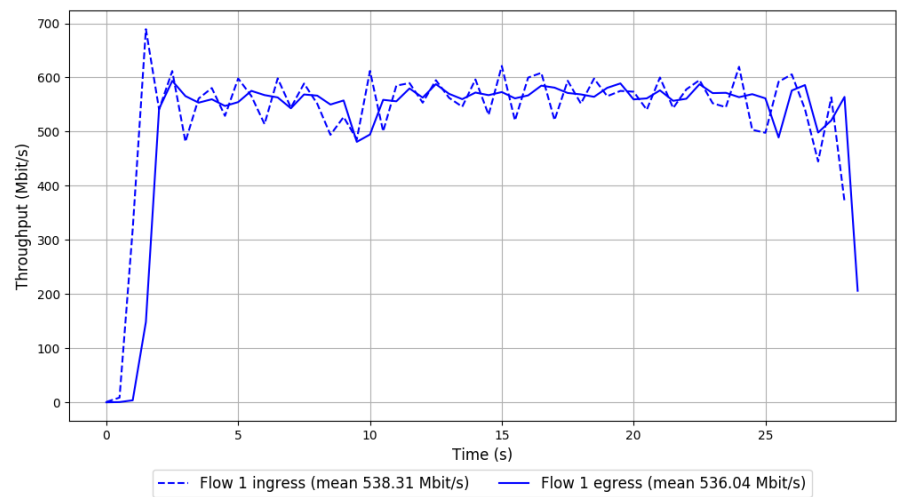


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-10-03 06:20:13
End at: 2019-10-03 06:20:43
Local clock offset: -0.239 ms
Remote clock offset: -0.028 ms

Below is generated by plot.py at 2019-10-03 09:36:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 536.04 Mbit/s
95th percentile per-packet one-way delay: 196.003 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 536.04 Mbit/s
95th percentile per-packet one-way delay: 196.003 ms
Loss rate: 1.36%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-10-03 06:56:08

End at: 2019-10-03 06:56:38

Local clock offset: -0.024 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2019-10-03 09:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 505.20 Mbit/s

95th percentile per-packet one-way delay: 217.878 ms

Loss rate: 1.44%

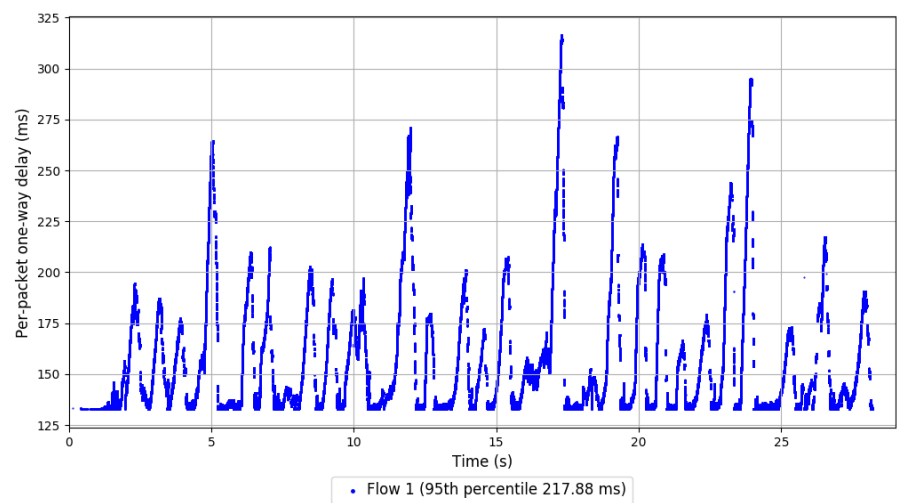
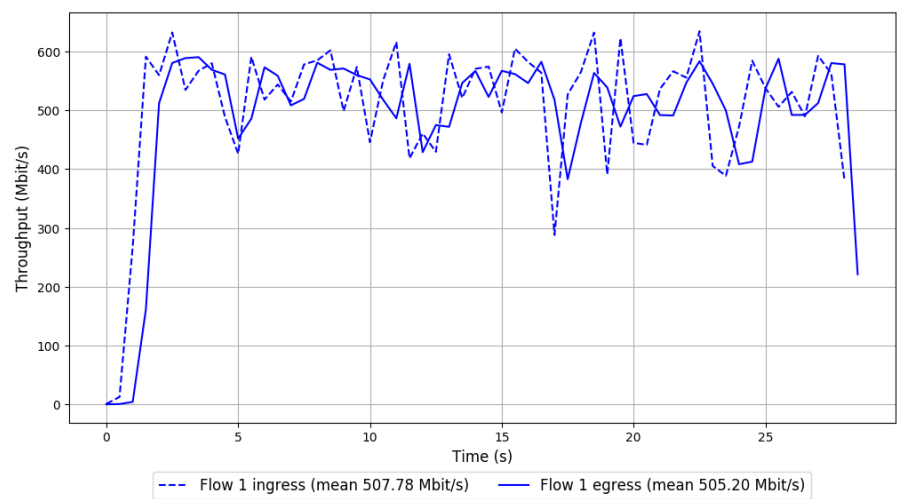
-- Flow 1:

Average throughput: 505.20 Mbit/s

95th percentile per-packet one-way delay: 217.878 ms

Loss rate: 1.44%

Run 3: Report of Indigo-MusesC3 — Data Link

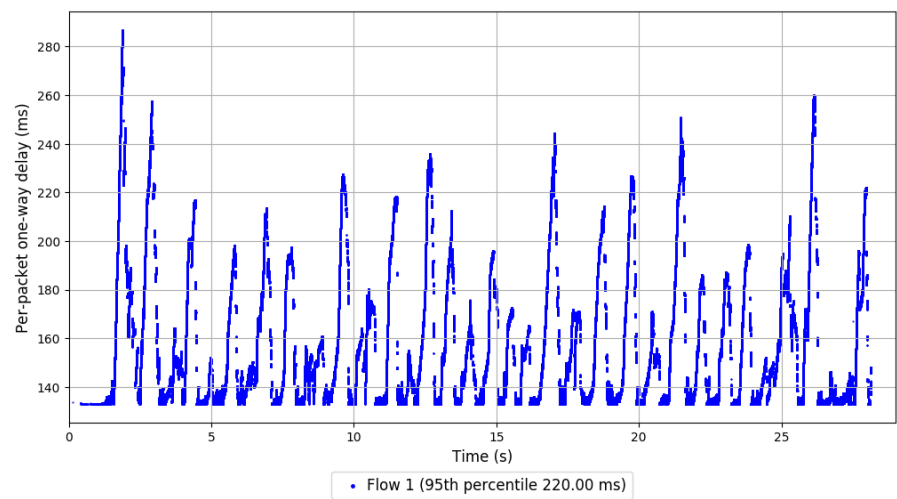
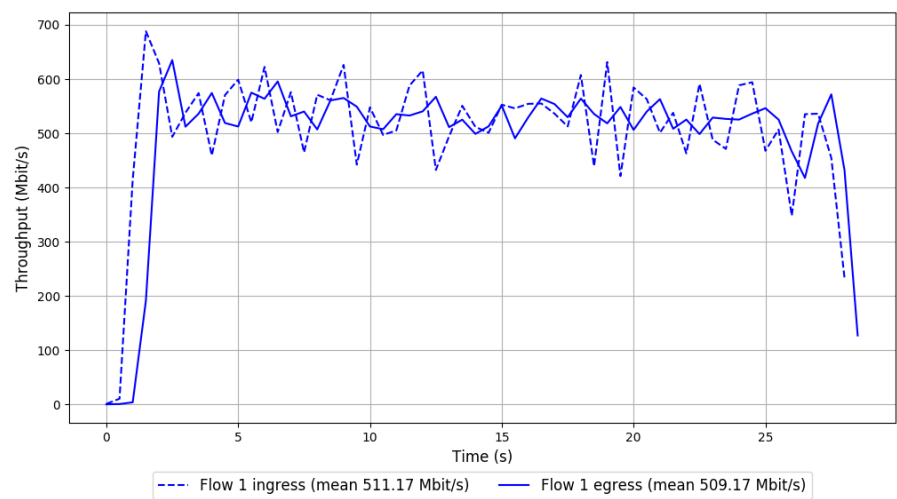


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-10-03 07:32:04
End at: 2019-10-03 07:32:34
Local clock offset: -0.448 ms
Remote clock offset: -0.395 ms

Below is generated by plot.py at 2019-10-03 09:36:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 509.17 Mbit/s
95th percentile per-packet one-way delay: 220.005 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 509.17 Mbit/s
95th percentile per-packet one-way delay: 220.005 ms
Loss rate: 1.33%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-10-03 08:07:34

End at: 2019-10-03 08:08:04

Local clock offset: 0.249 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2019-10-03 09:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 505.63 Mbit/s

95th percentile per-packet one-way delay: 198.880 ms

Loss rate: 1.08%

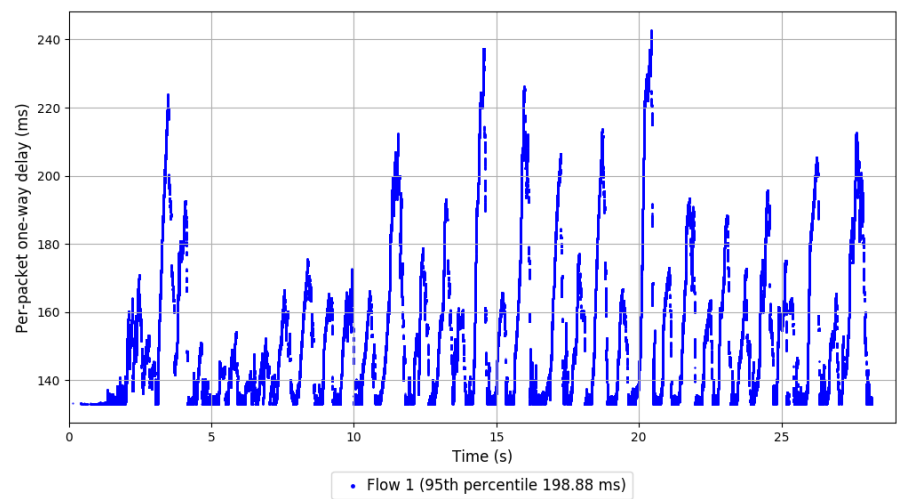
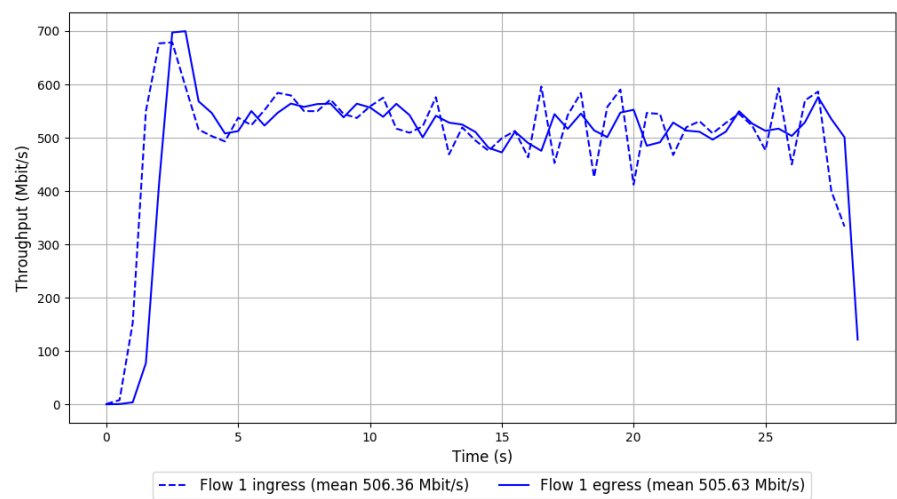
-- Flow 1:

Average throughput: 505.63 Mbit/s

95th percentile per-packet one-way delay: 198.880 ms

Loss rate: 1.08%

Run 5: Report of Indigo-MusesC3 — Data Link

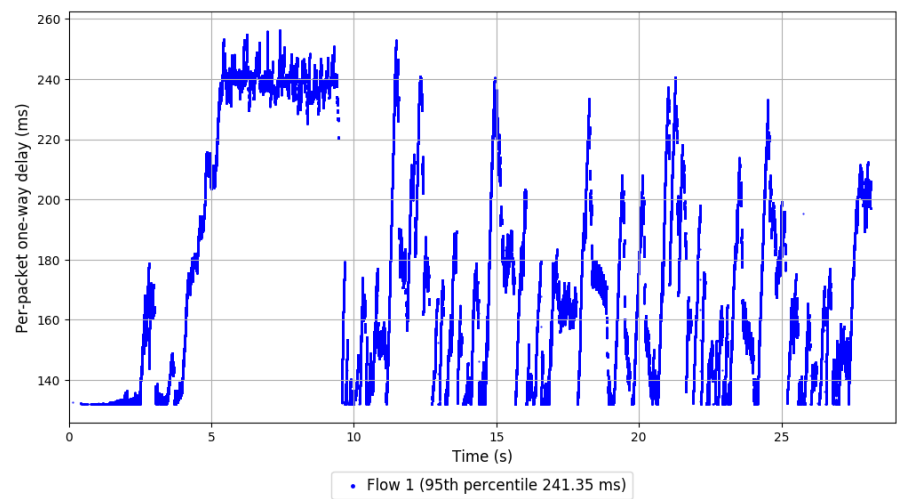
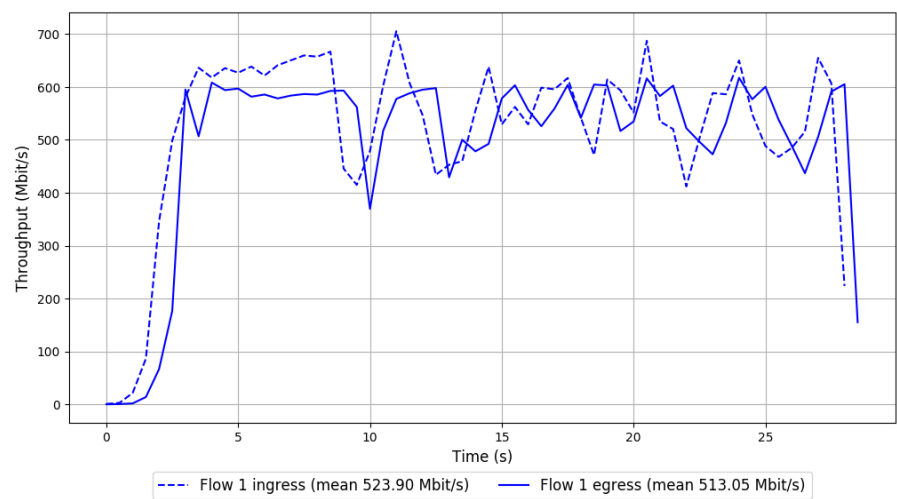


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-10-03 05:58:17
End at: 2019-10-03 05:58:47
Local clock offset: 0.058 ms
Remote clock offset: -0.004 ms

Below is generated by plot.py at 2019-10-03 09:37:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 513.05 Mbit/s
95th percentile per-packet one-way delay: 241.351 ms
Loss rate: 2.99%
-- Flow 1:
Average throughput: 513.05 Mbit/s
95th percentile per-packet one-way delay: 241.351 ms
Loss rate: 2.99%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-10-03 06:34:20

End at: 2019-10-03 06:34:50

Local clock offset: 0.24 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2019-10-03 09:39:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 503.77 Mbit/s

95th percentile per-packet one-way delay: 189.625 ms

Loss rate: 1.00%

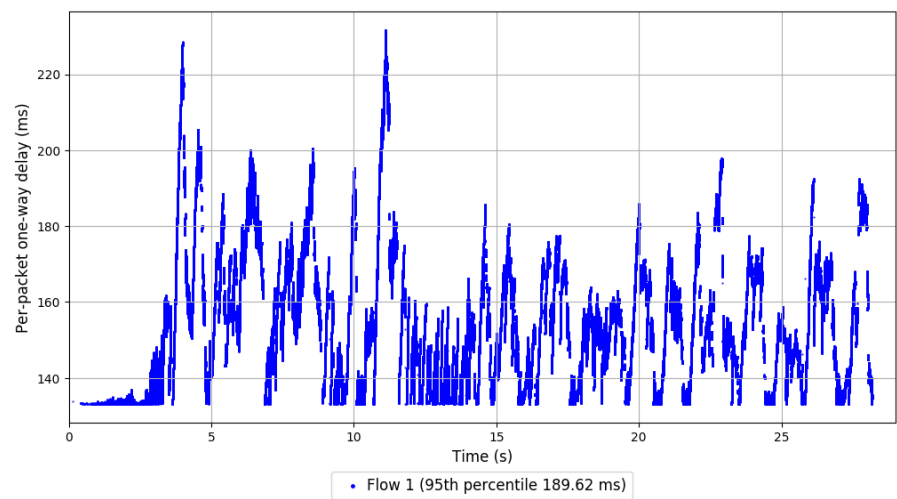
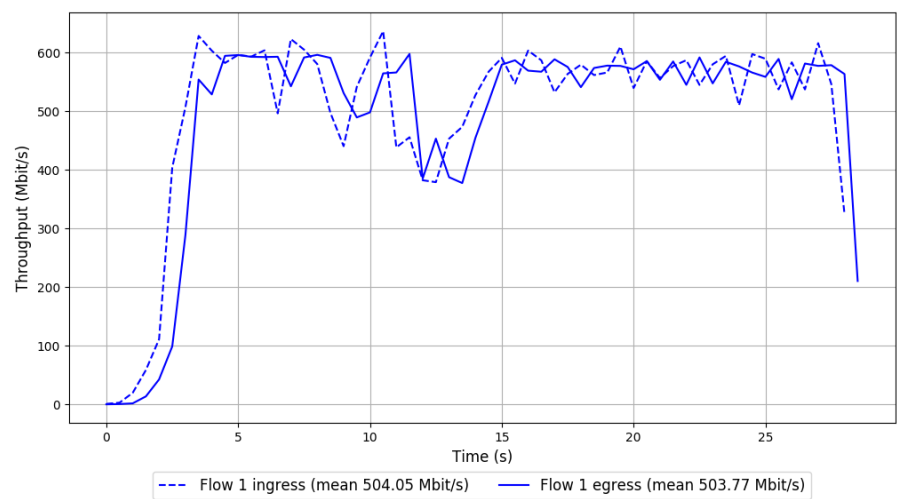
-- Flow 1:

Average throughput: 503.77 Mbit/s

95th percentile per-packet one-way delay: 189.625 ms

Loss rate: 1.00%

Run 2: Report of Indigo-MusesC5 — Data Link

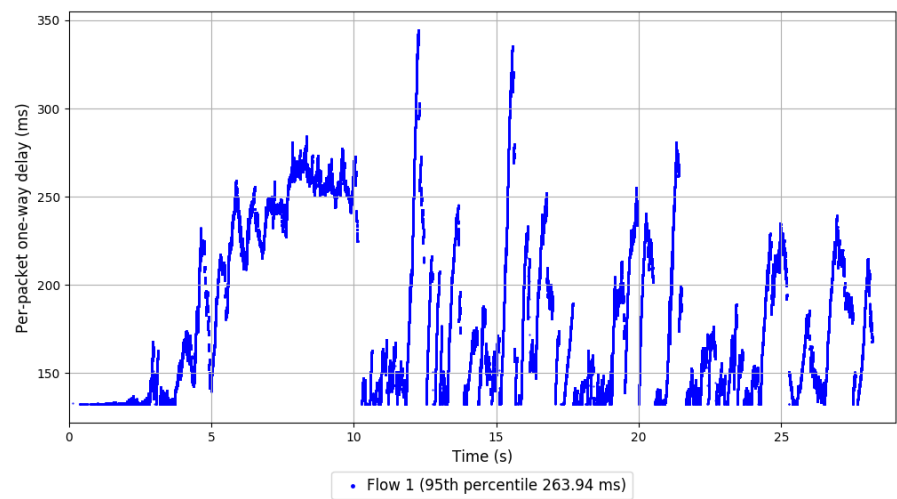
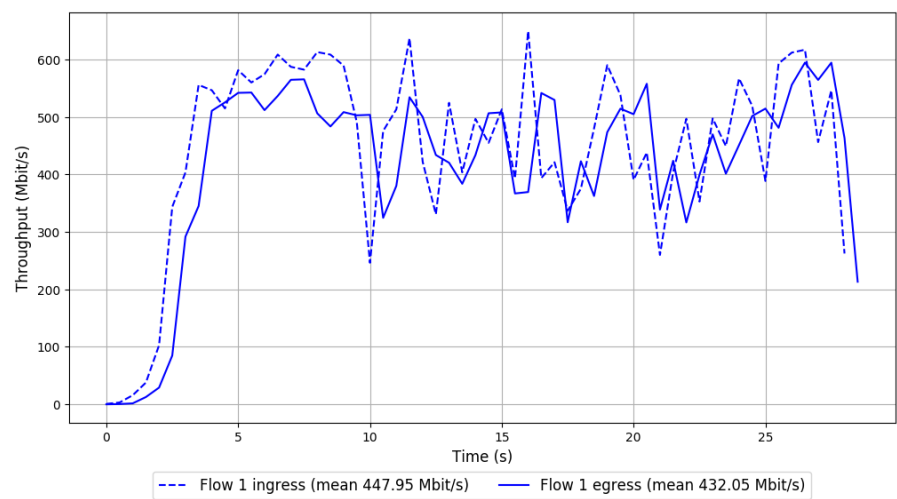


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-10-03 07:10:13
End at: 2019-10-03 07:10:43
Local clock offset: 0.114 ms
Remote clock offset: -0.019 ms

Below is generated by plot.py at 2019-10-03 09:39:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 432.05 Mbit/s
95th percentile per-packet one-way delay: 263.941 ms
Loss rate: 4.44%
-- Flow 1:
Average throughput: 432.05 Mbit/s
95th percentile per-packet one-way delay: 263.941 ms
Loss rate: 4.44%

Run 3: Report of Indigo-MusesC5 — Data Link

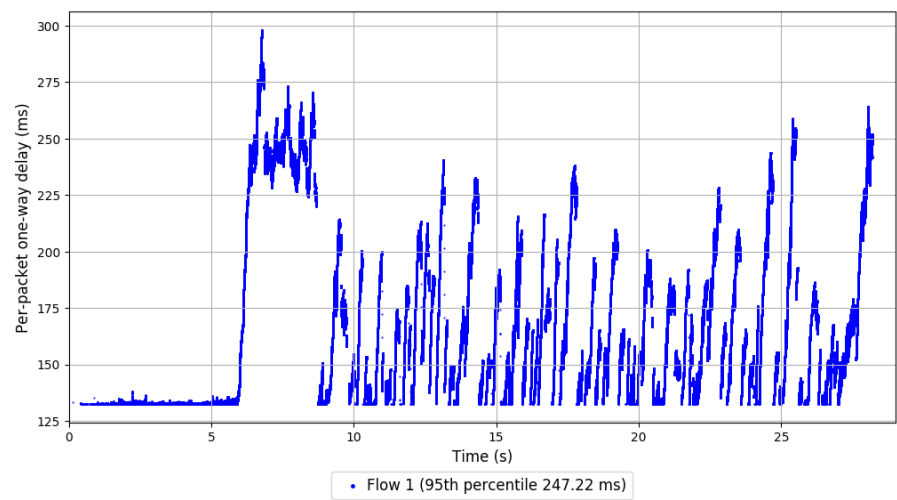
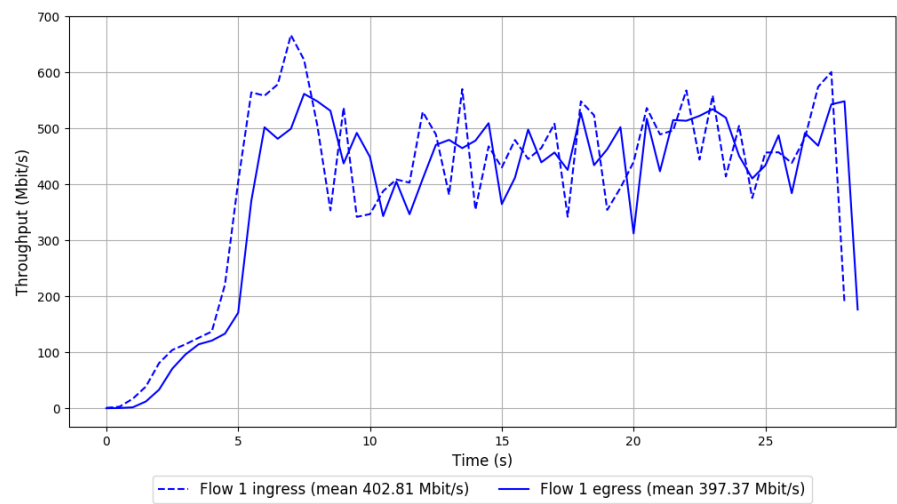


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-10-03 07:46:04
End at: 2019-10-03 07:46:34
Local clock offset: -0.375 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2019-10-03 09:43:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 397.37 Mbit/s
95th percentile per-packet one-way delay: 247.215 ms
Loss rate: 2.28%
-- Flow 1:
Average throughput: 397.37 Mbit/s
95th percentile per-packet one-way delay: 247.215 ms
Loss rate: 2.28%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-10-03 08:21:26

End at: 2019-10-03 08:21:56

Local clock offset: 0.4 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2019-10-03 09:45:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 464.88 Mbit/s

95th percentile per-packet one-way delay: 226.255 ms

Loss rate: 1.67%

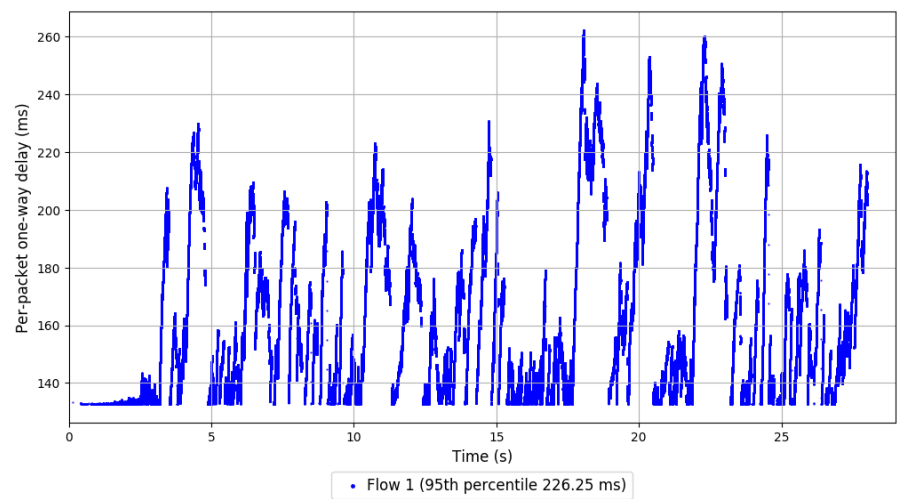
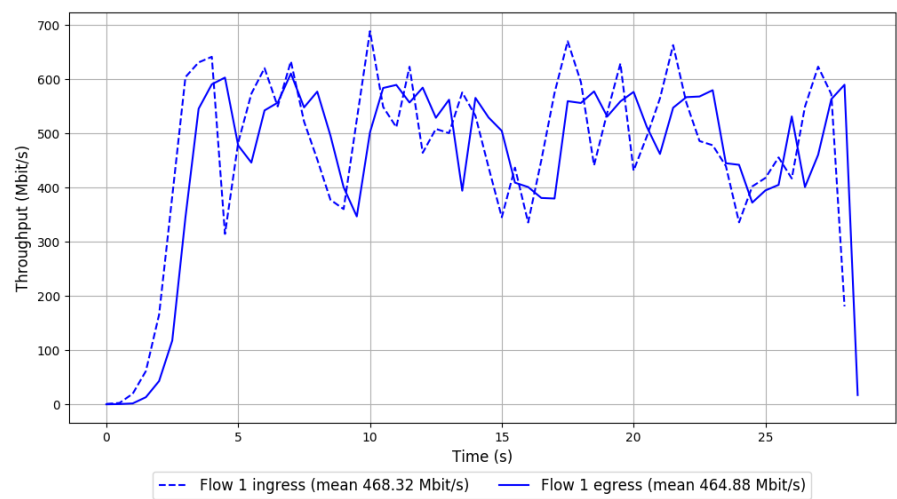
-- Flow 1:

Average throughput: 464.88 Mbit/s

95th percentile per-packet one-way delay: 226.255 ms

Loss rate: 1.67%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-10-03 06:02:59

End at: 2019-10-03 06:03:29

Local clock offset: -0.17 ms

Remote clock offset: -0.001 ms

Below is generated by plot.py at 2019-10-03 09:46:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 495.49 Mbit/s

95th percentile per-packet one-way delay: 227.038 ms

Loss rate: 1.97%

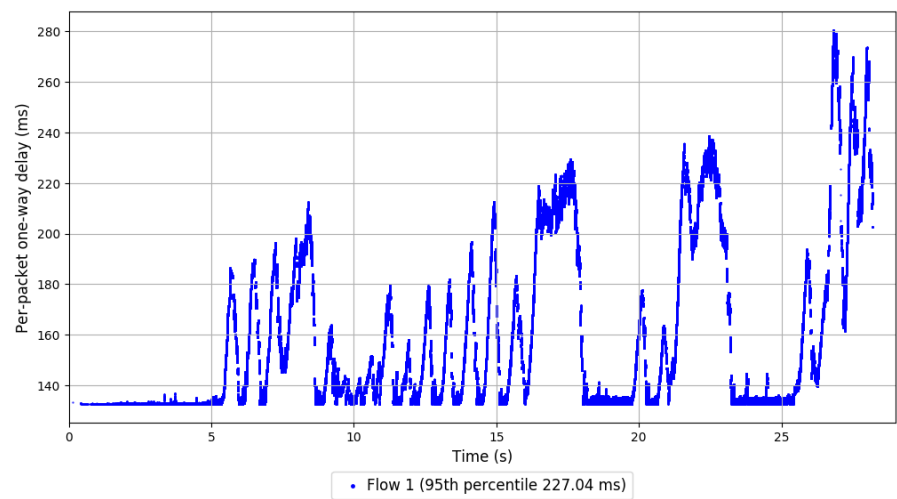
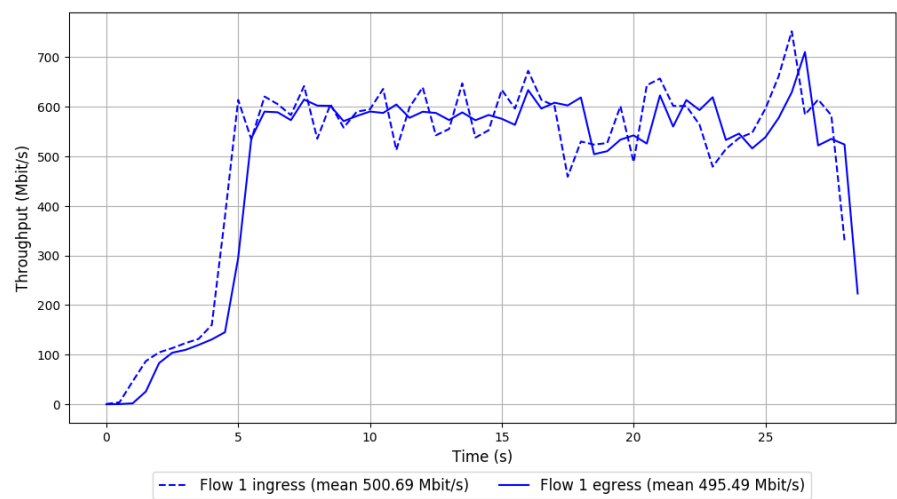
-- Flow 1:

Average throughput: 495.49 Mbit/s

95th percentile per-packet one-way delay: 227.038 ms

Loss rate: 1.97%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-10-03 06:39:06

End at: 2019-10-03 06:39:36

Local clock offset: 0.326 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2019-10-03 09:46:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 500.32 Mbit/s

95th percentile per-packet one-way delay: 204.658 ms

Loss rate: 1.40%

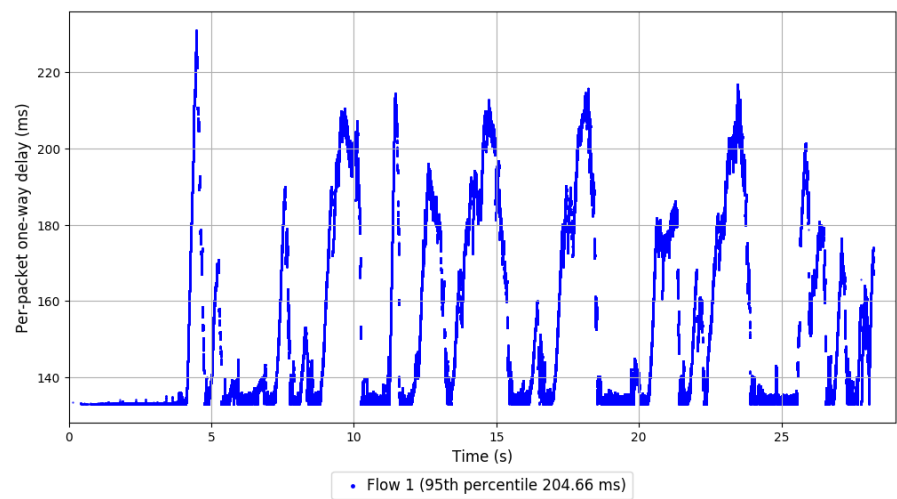
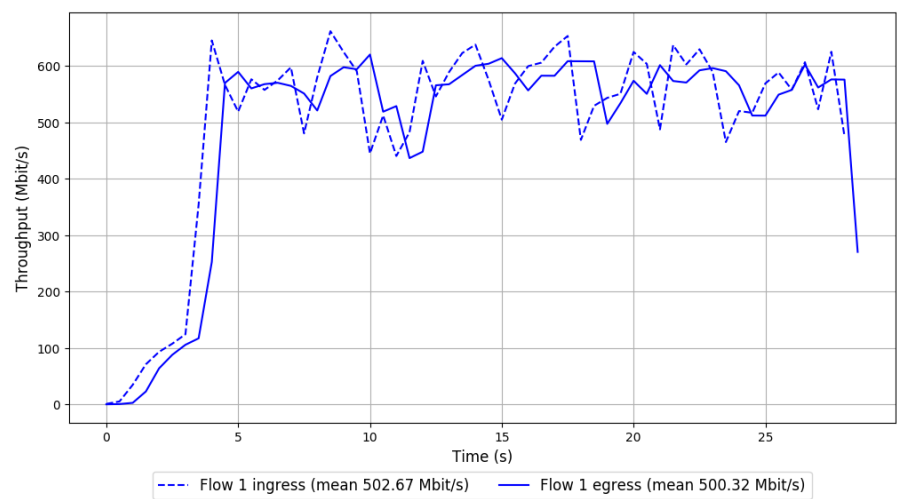
-- Flow 1:

Average throughput: 500.32 Mbit/s

95th percentile per-packet one-way delay: 204.658 ms

Loss rate: 1.40%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-10-03 07:14:52

End at: 2019-10-03 07:15:22

Local clock offset: 0.381 ms

Remote clock offset: -0.028 ms

Below is generated by plot.py at 2019-10-03 09:47:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 513.21 Mbit/s

95th percentile per-packet one-way delay: 226.314 ms

Loss rate: 1.75%

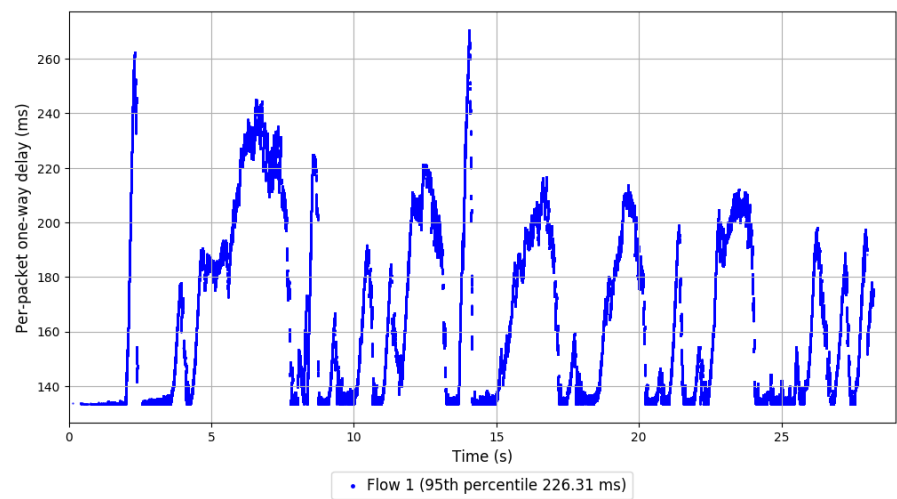
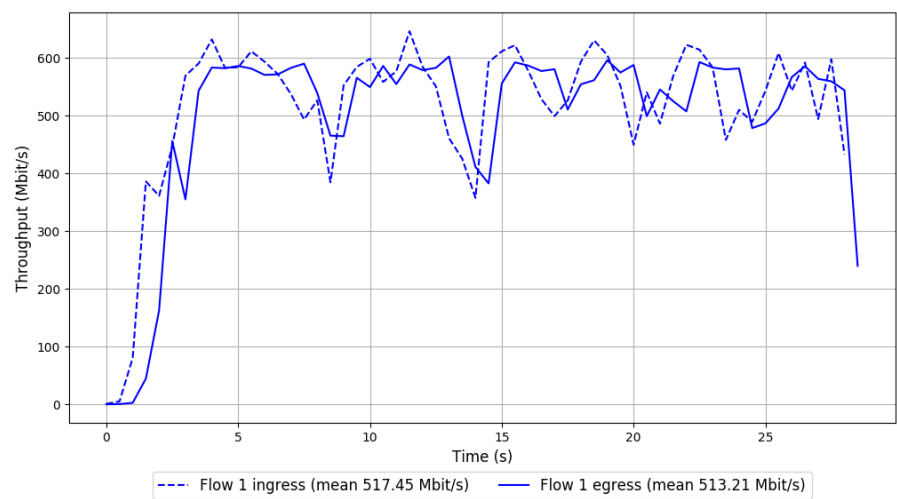
-- Flow 1:

Average throughput: 513.21 Mbit/s

95th percentile per-packet one-way delay: 226.314 ms

Loss rate: 1.75%

Run 3: Report of Indigo-MusesD — Data Link

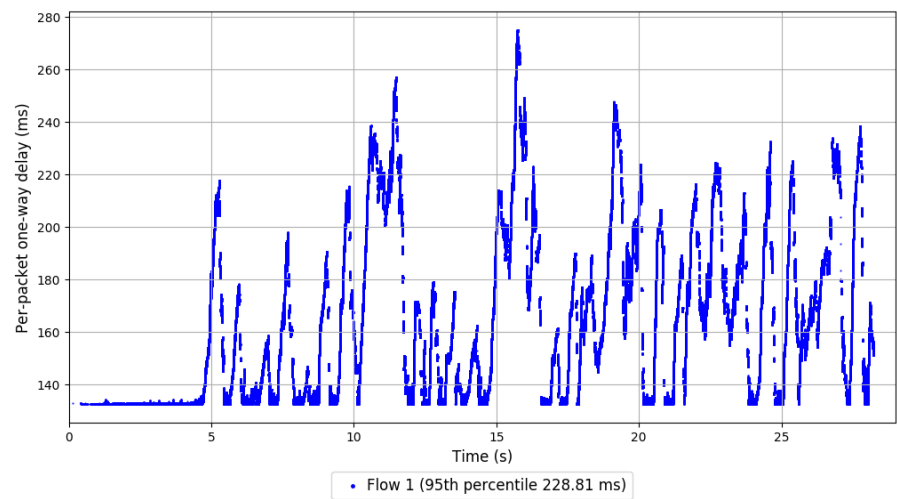
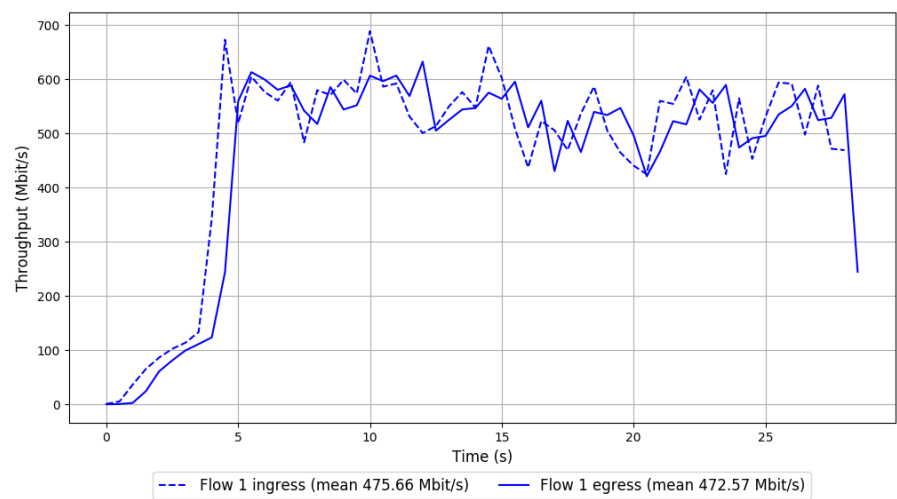


Run 4: Statistics of Indigo-MusesD

Start at: 2019-10-03 07:50:40
End at: 2019-10-03 07:51:10
Local clock offset: -0.062 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2019-10-03 09:47:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 472.57 Mbit/s
95th percentile per-packet one-way delay: 228.814 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 472.57 Mbit/s
95th percentile per-packet one-way delay: 228.814 ms
Loss rate: 1.58%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-10-03 08:26:11

End at: 2019-10-03 08:26:41

Local clock offset: 0.187 ms

Remote clock offset: 0.03 ms

Below is generated by plot.py at 2019-10-03 09:49:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 488.11 Mbit/s

95th percentile per-packet one-way delay: 231.694 ms

Loss rate: 1.63%

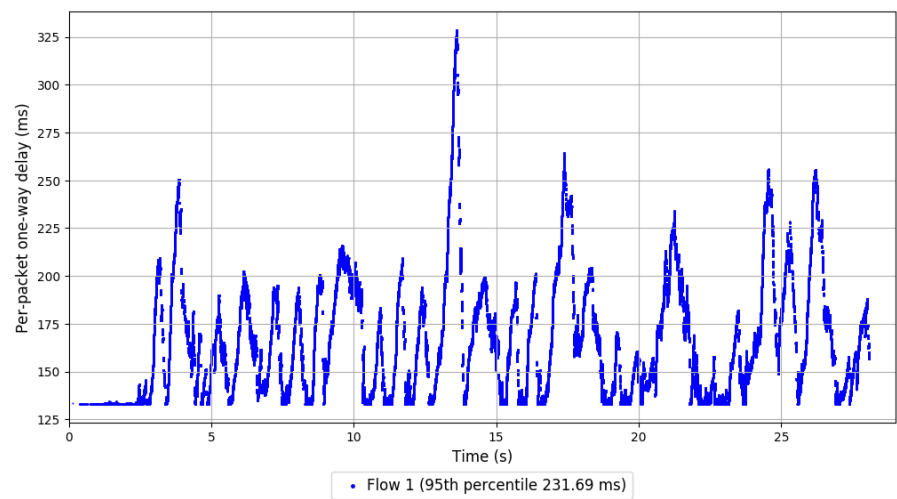
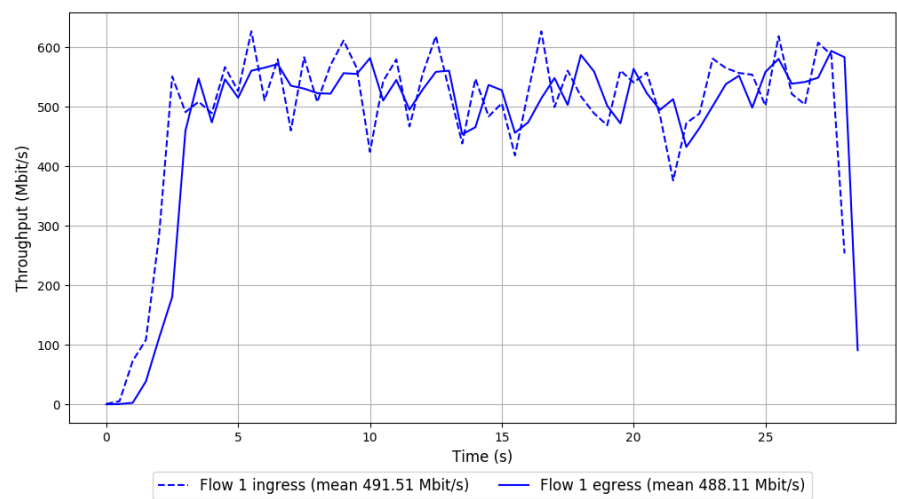
-- Flow 1:

Average throughput: 488.11 Mbit/s

95th percentile per-packet one-way delay: 231.694 ms

Loss rate: 1.63%

Run 5: Report of Indigo-MusesD — Data Link

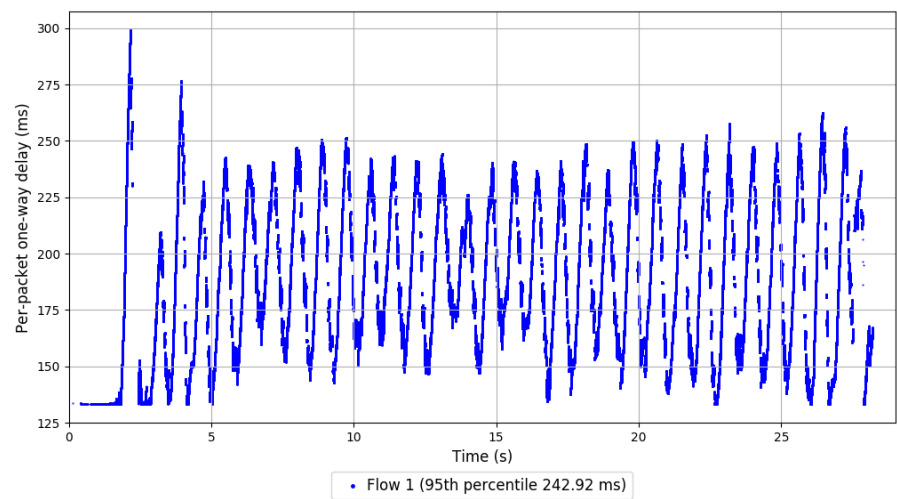
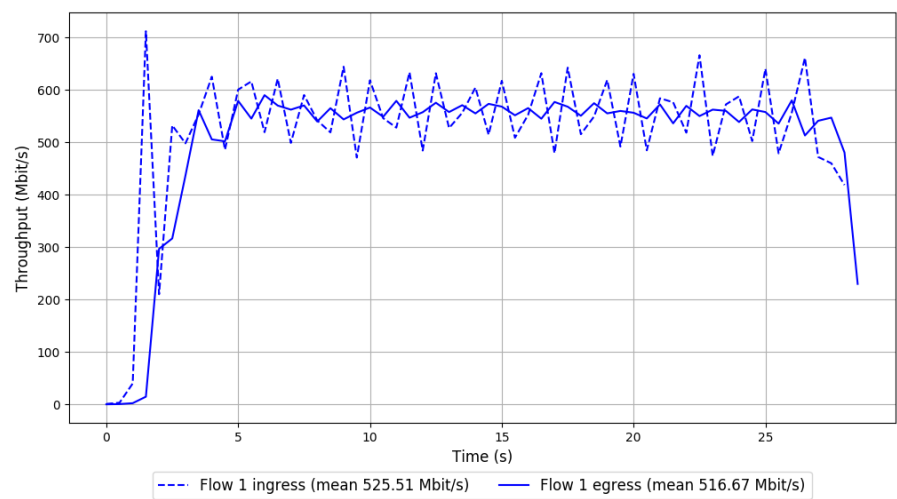


```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-10-03 06:01:20
End at: 2019-10-03 06:01:50
Local clock offset: 0.447 ms
Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2019-10-03 09:51:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 516.67 Mbit/s
95th percentile per-packet one-way delay: 242.923 ms
Loss rate: 2.61%
-- Flow 1:
Average throughput: 516.67 Mbit/s
95th percentile per-packet one-way delay: 242.923 ms
Loss rate: 2.61%
```

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-10-03 06:37:25

End at: 2019-10-03 06:37:55

Local clock offset: -0.358 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2019-10-03 09:55:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 554.05 Mbit/s

95th percentile per-packet one-way delay: 232.002 ms

Loss rate: 1.28%

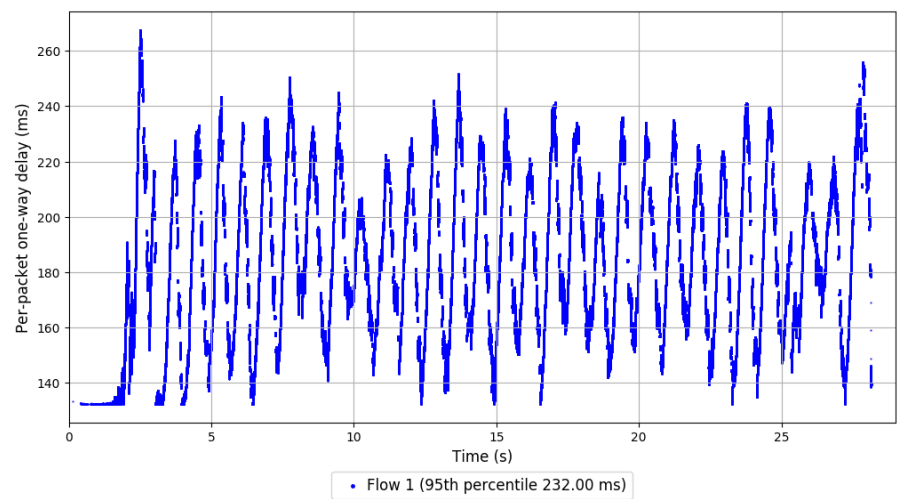
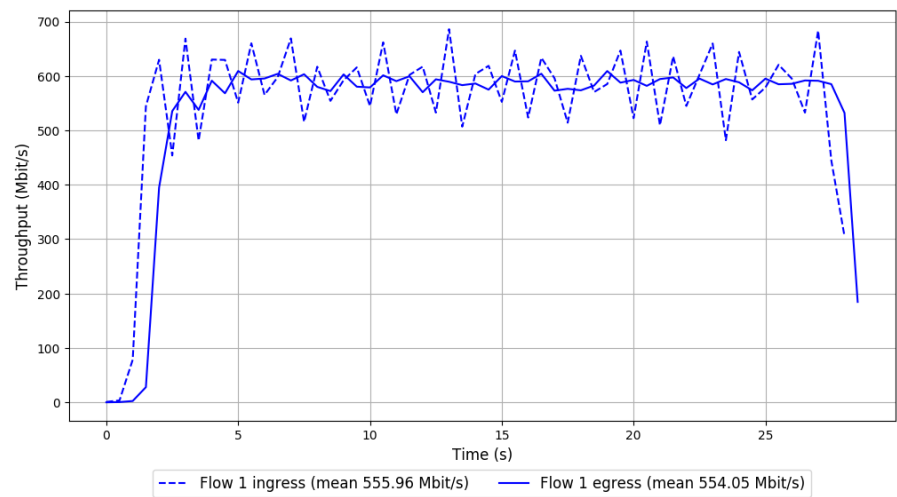
-- Flow 1:

Average throughput: 554.05 Mbit/s

95th percentile per-packet one-way delay: 232.002 ms

Loss rate: 1.28%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-10-03 07:13:14

End at: 2019-10-03 07:13:44

Local clock offset: -0.054 ms

Remote clock offset: -0.419 ms

Below is generated by plot.py at 2019-10-03 09:56:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 492.79 Mbit/s

95th percentile per-packet one-way delay: 261.149 ms

Loss rate: 3.12%

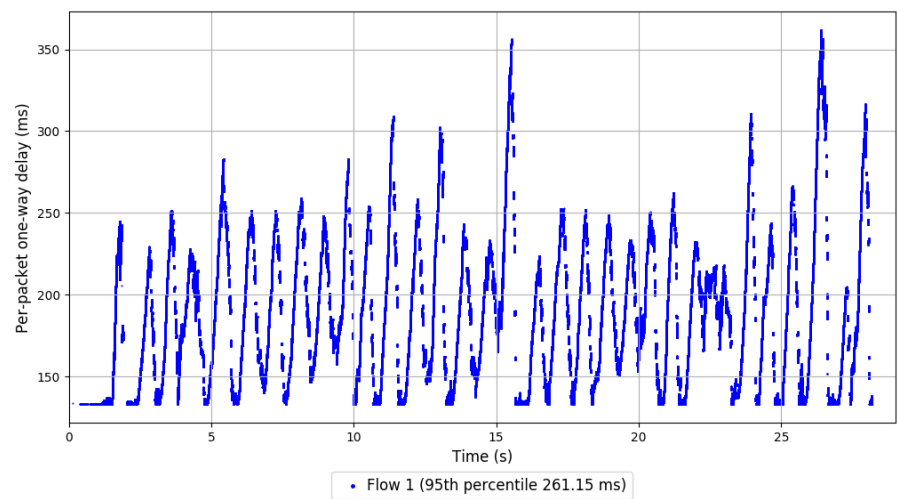
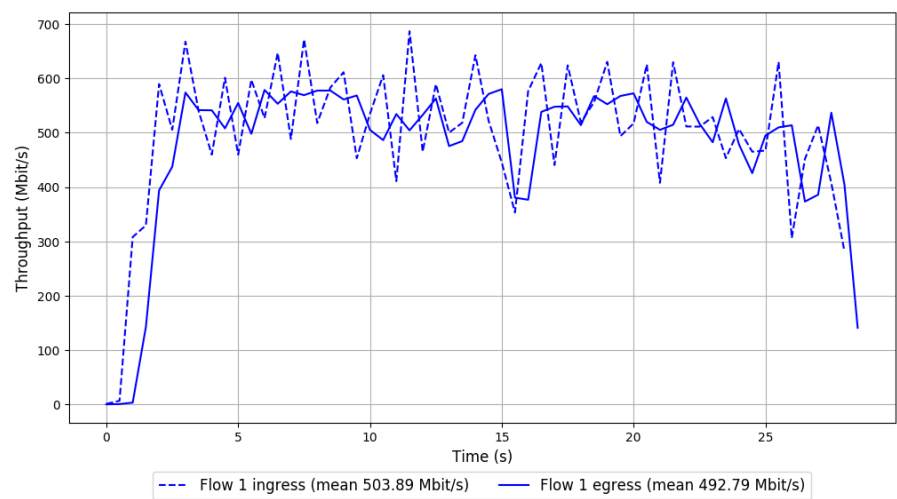
-- Flow 1:

Average throughput: 492.79 Mbit/s

95th percentile per-packet one-way delay: 261.149 ms

Loss rate: 3.12%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-10-03 07:49:02

End at: 2019-10-03 07:49:32

Local clock offset: 0.005 ms

Remote clock offset: -0.001 ms

Below is generated by plot.py at 2019-10-03 09:58:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 511.81 Mbit/s

95th percentile per-packet one-way delay: 253.771 ms

Loss rate: 3.54%

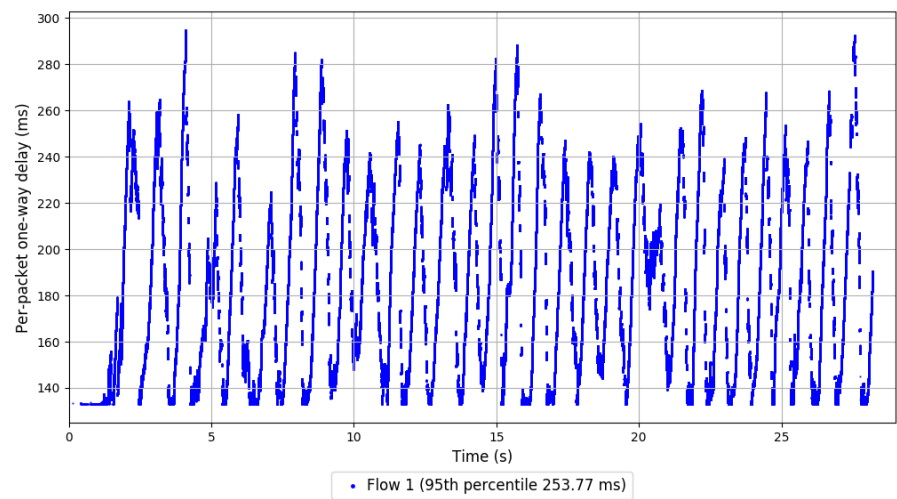
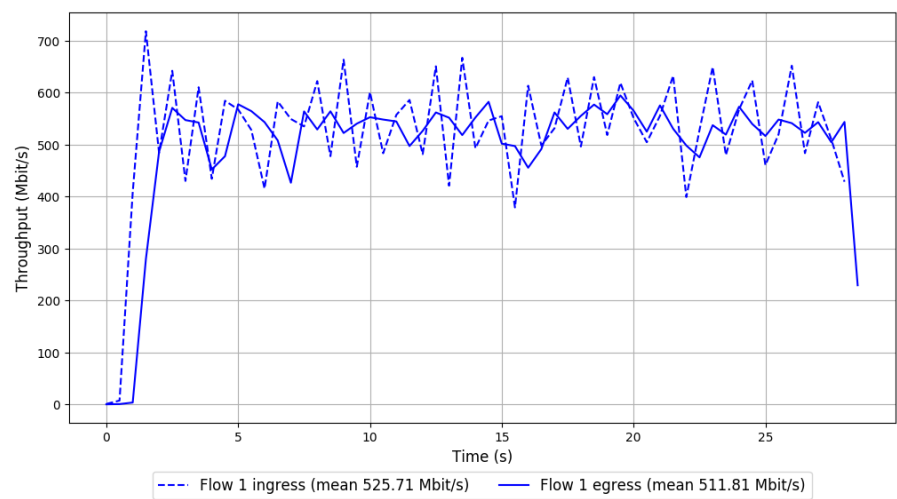
-- Flow 1:

Average throughput: 511.81 Mbit/s

95th percentile per-packet one-way delay: 253.771 ms

Loss rate: 3.54%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-10-03 08:24:31

End at: 2019-10-03 08:25:01

Local clock offset: -0.023 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2019-10-03 09:58:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 529.31 Mbit/s

95th percentile per-packet one-way delay: 243.533 ms

Loss rate: 2.60%

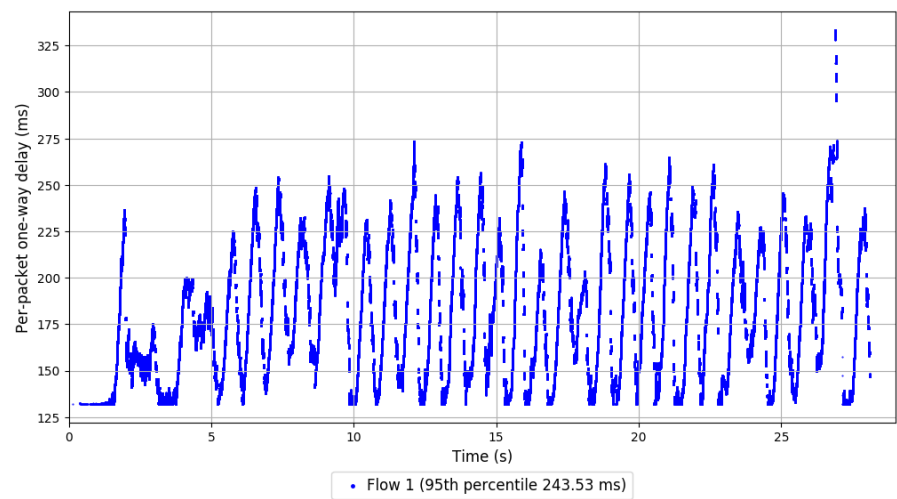
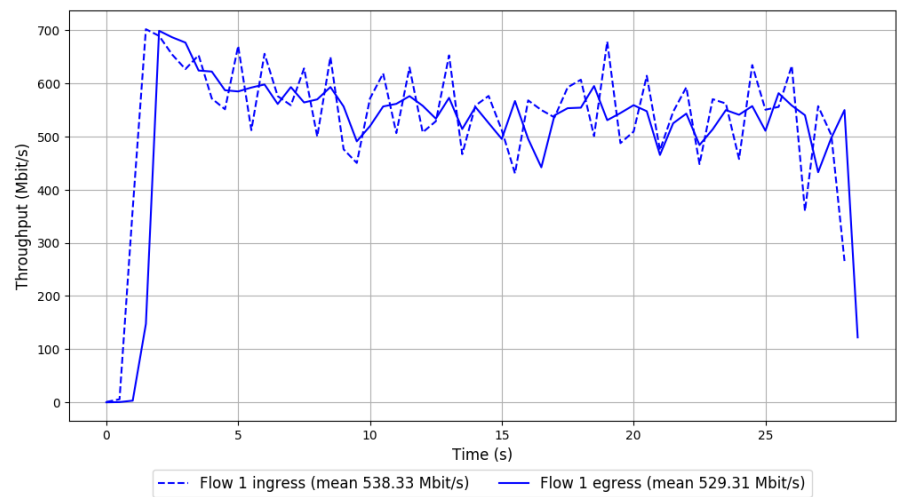
-- Flow 1:

Average throughput: 529.31 Mbit/s

95th percentile per-packet one-way delay: 243.533 ms

Loss rate: 2.60%

Run 5: Report of Indigo-MusesT — Data Link

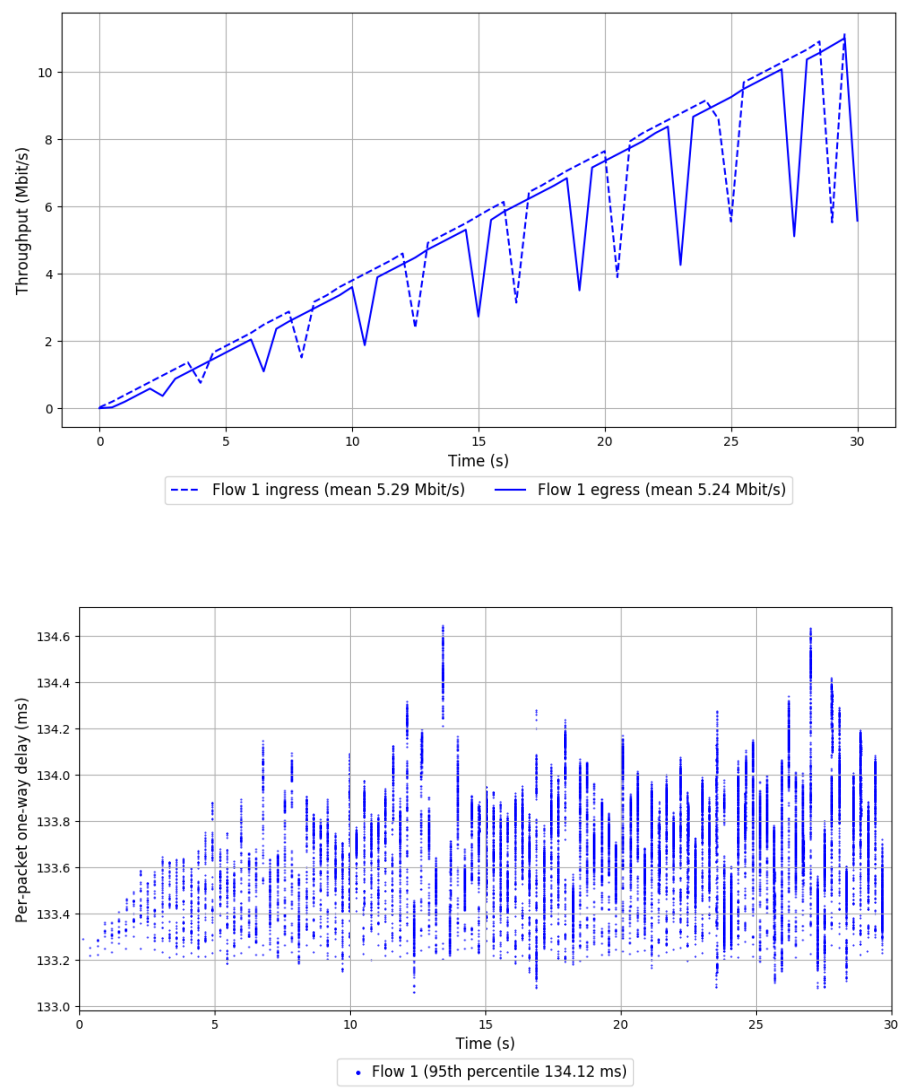


```
Run 1: Statistics of LEDBAT

Start at: 2019-10-03 06:07:23
End at: 2019-10-03 06:07:53
Local clock offset: 0.26 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2019-10-03 09:58:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 134.116 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 134.116 ms
Loss rate: 1.79%
```

Run 1: Report of LEDBAT — Data Link

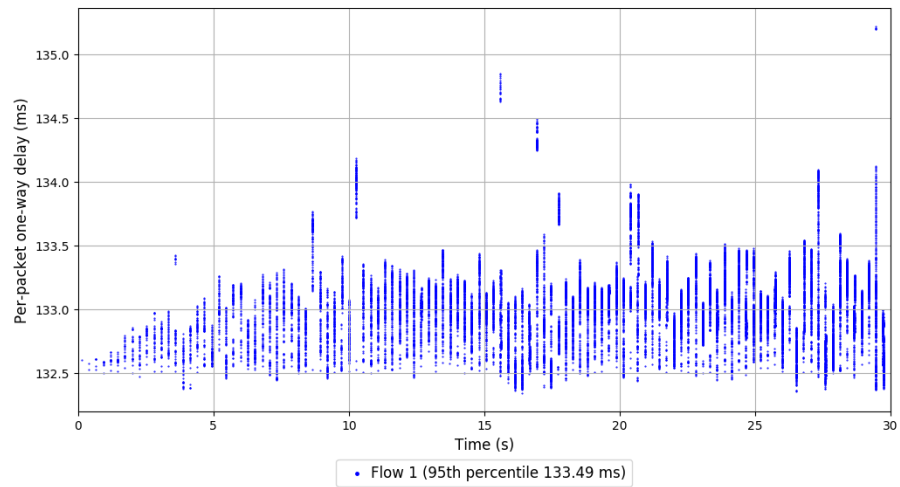
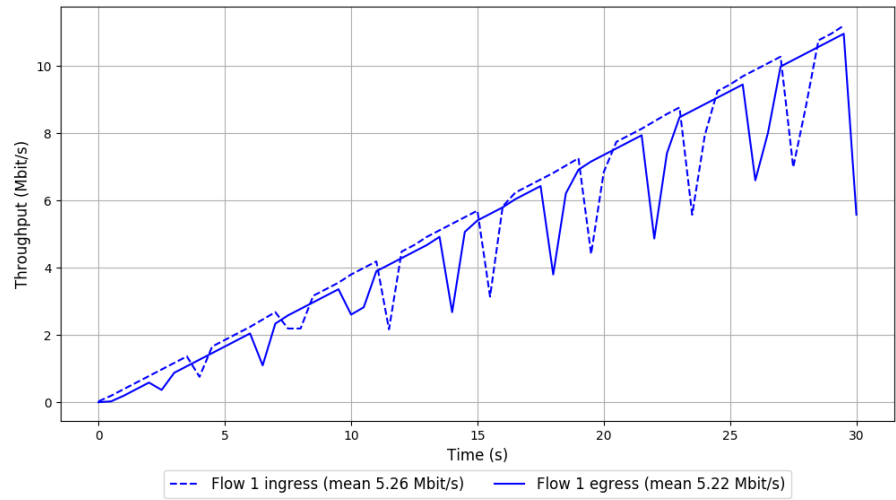


Run 2: Statistics of LEDBAT

Start at: 2019-10-03 06:43:30
End at: 2019-10-03 06:44:00
Local clock offset: -0.411 ms
Remote clock offset: -0.042 ms

Below is generated by plot.py at 2019-10-03 09:58:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 133.486 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 133.486 ms
Loss rate: 1.79%

Run 2: Report of LEDBAT — Data Link

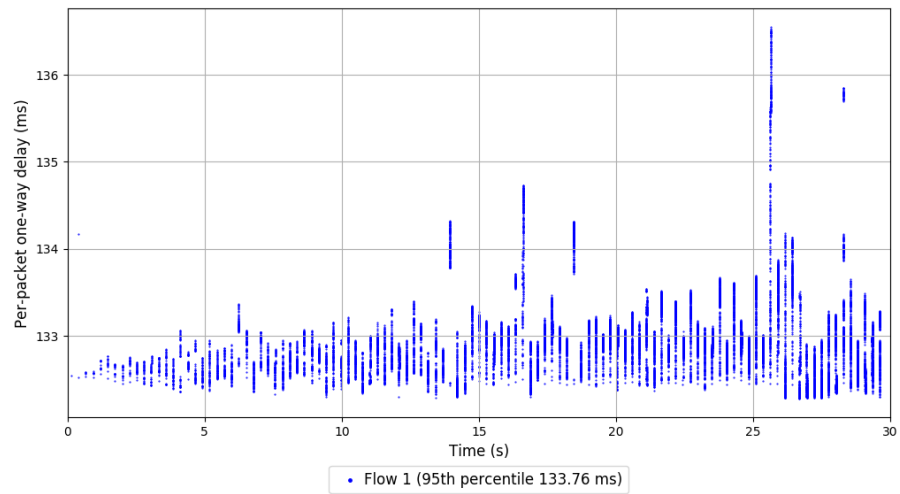
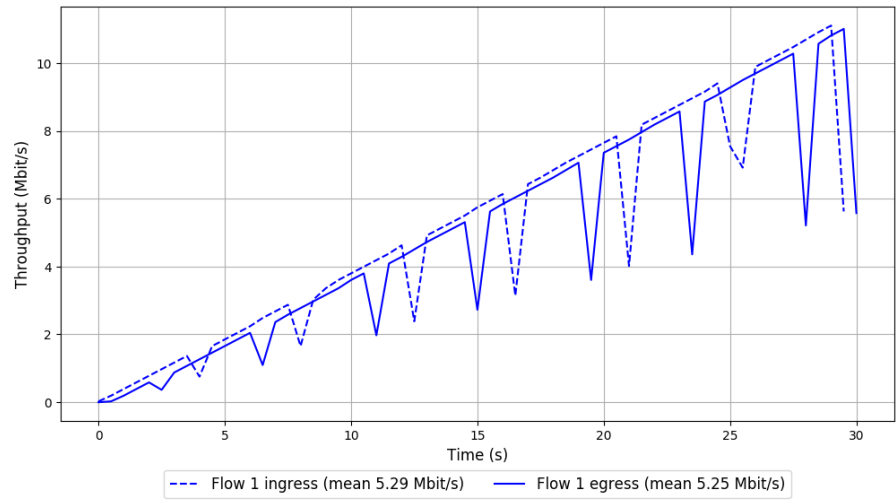


Run 3: Statistics of LEDBAT

Start at: 2019-10-03 07:19:15
End at: 2019-10-03 07:19:45
Local clock offset: -0.467 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2019-10-03 09:58:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.25 Mbit/s
95th percentile per-packet one-way delay: 133.765 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 5.25 Mbit/s
95th percentile per-packet one-way delay: 133.765 ms
Loss rate: 1.79%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-10-03 07:54:59

End at: 2019-10-03 07:55:29

Local clock offset: -0.202 ms

Remote clock offset: 0.034 ms

Below is generated by plot.py at 2019-10-03 09:58:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.18 Mbit/s

95th percentile per-packet one-way delay: 134.182 ms

Loss rate: 1.80%

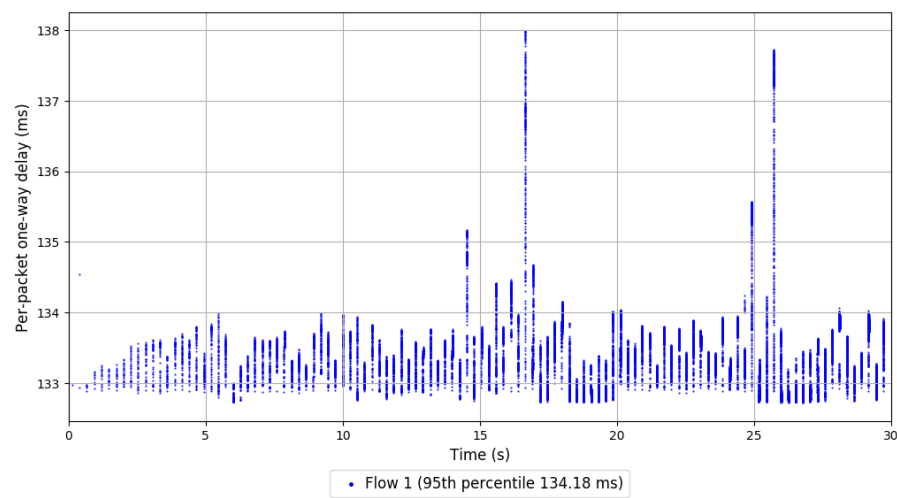
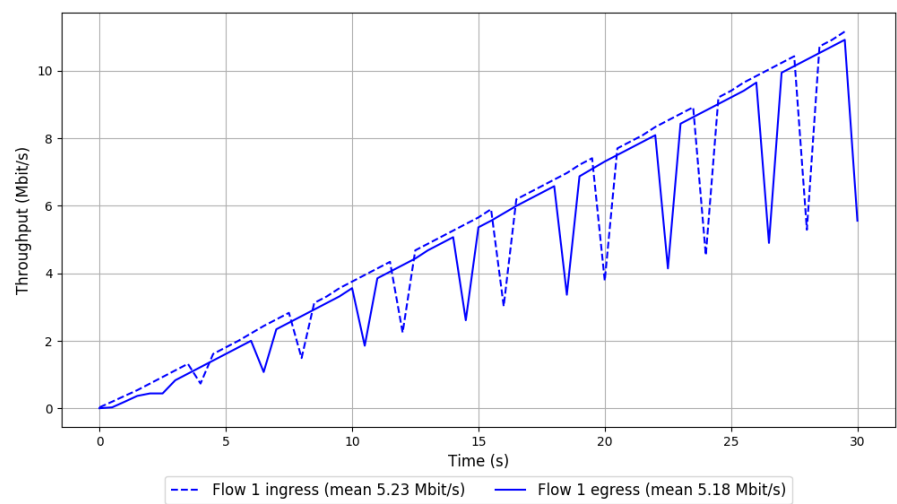
-- Flow 1:

Average throughput: 5.18 Mbit/s

95th percentile per-packet one-way delay: 134.182 ms

Loss rate: 1.80%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-10-03 08:30:28

End at: 2019-10-03 08:30:58

Local clock offset: 0.366 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2019-10-03 09:58:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.23 Mbit/s

95th percentile per-packet one-way delay: 134.312 ms

Loss rate: 1.79%

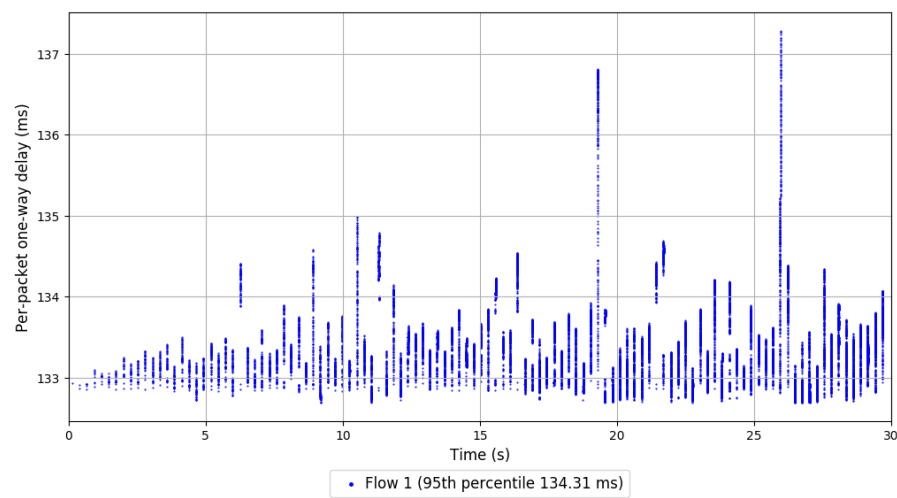
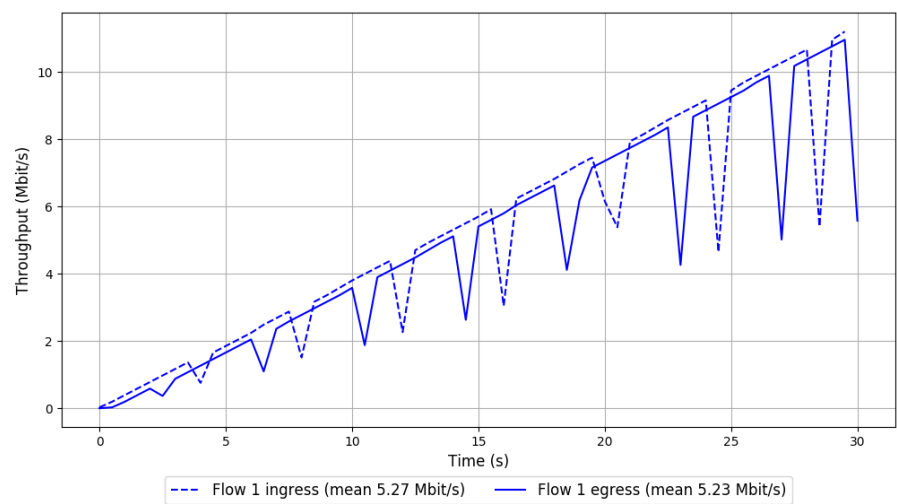
-- Flow 1:

Average throughput: 5.23 Mbit/s

95th percentile per-packet one-way delay: 134.312 ms

Loss rate: 1.79%

Run 5: Report of LEDBAT — Data Link

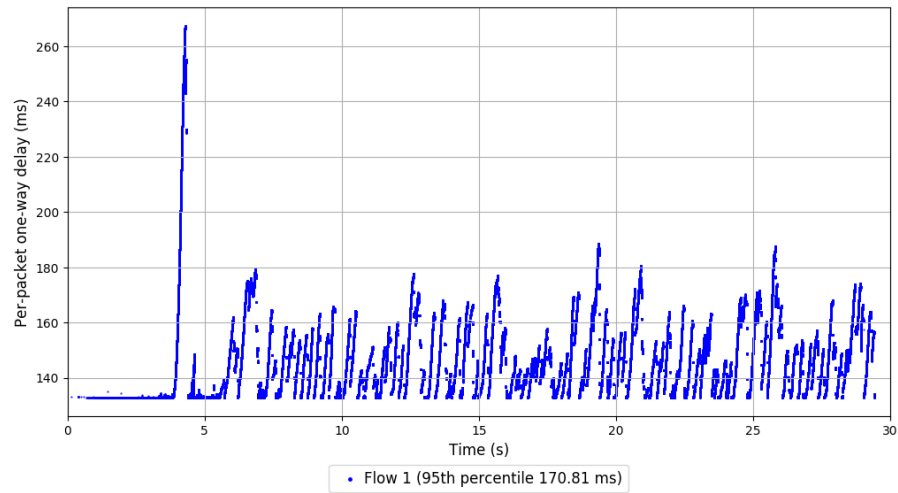
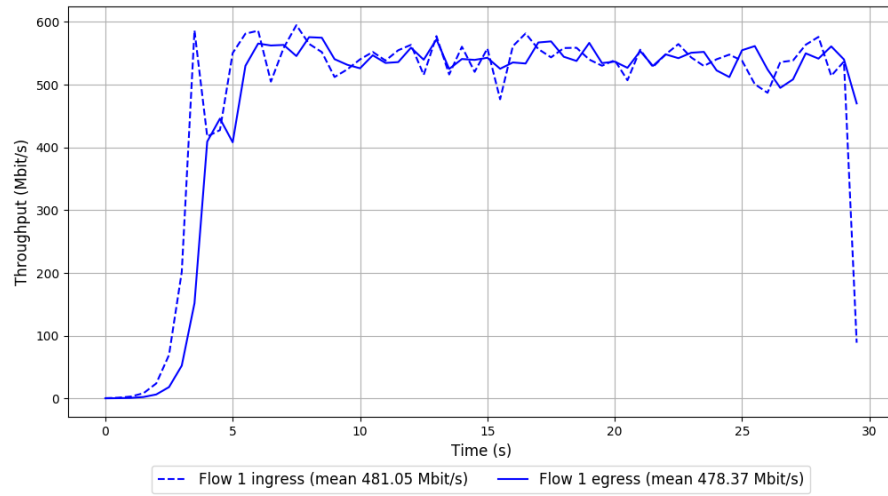


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-10-03 05:34:30
End at: 2019-10-03 05:35:00
Local clock offset: -0.0 ms
Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2019-10-03 09:58:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 478.37 Mbit/s
95th percentile per-packet one-way delay: 170.812 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 478.37 Mbit/s
95th percentile per-packet one-way delay: 170.812 ms
Loss rate: 1.45%
```

Run 1: Report of Muses_DecisionTree — Data Link



Run 2: Statistics of Muses_DecisionTree

Start at: 2019-10-03 06:10:10

End at: 2019-10-03 06:10:40

Local clock offset: 0.064 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2019-10-03 09:58:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 476.50 Mbit/s

95th percentile per-packet one-way delay: 184.213 ms

Loss rate: 1.50%

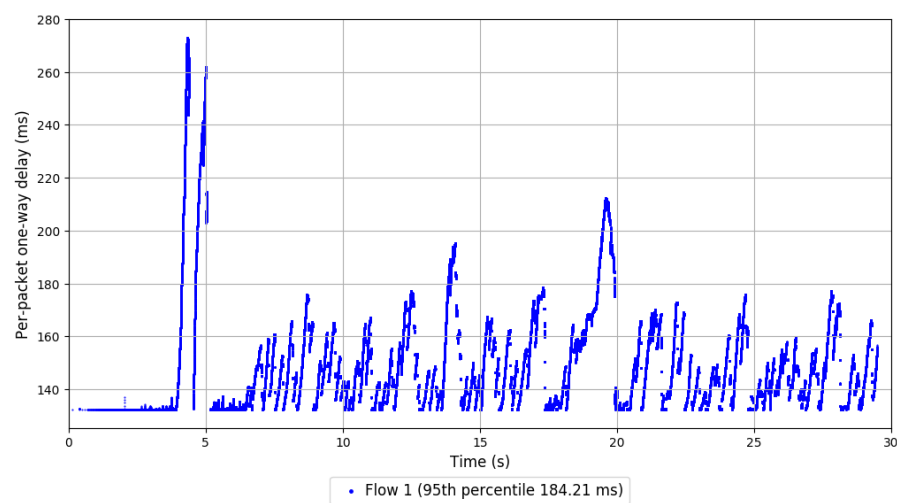
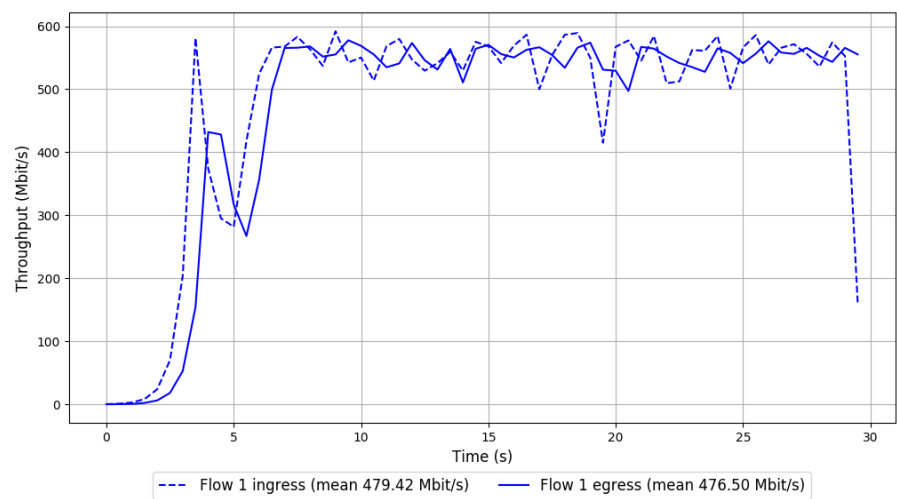
-- Flow 1:

Average throughput: 476.50 Mbit/s

95th percentile per-packet one-way delay: 184.213 ms

Loss rate: 1.50%

Run 2: Report of Muses_DecisionTree — Data Link

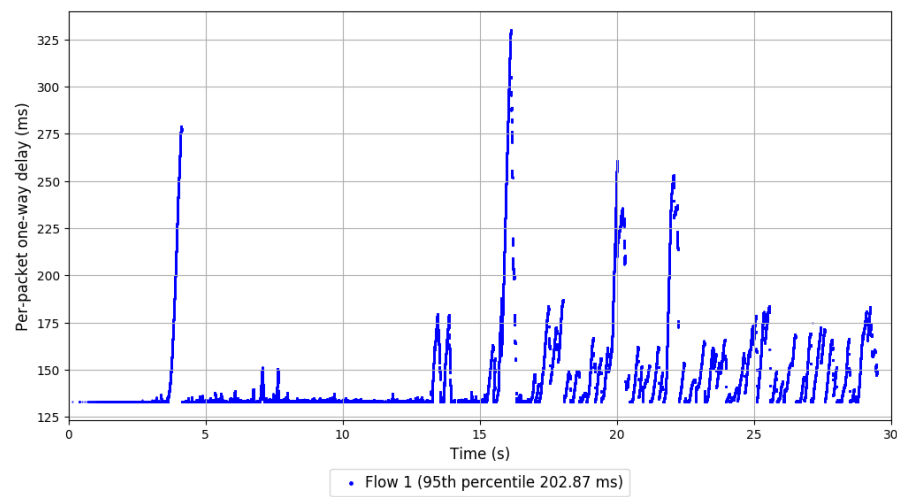
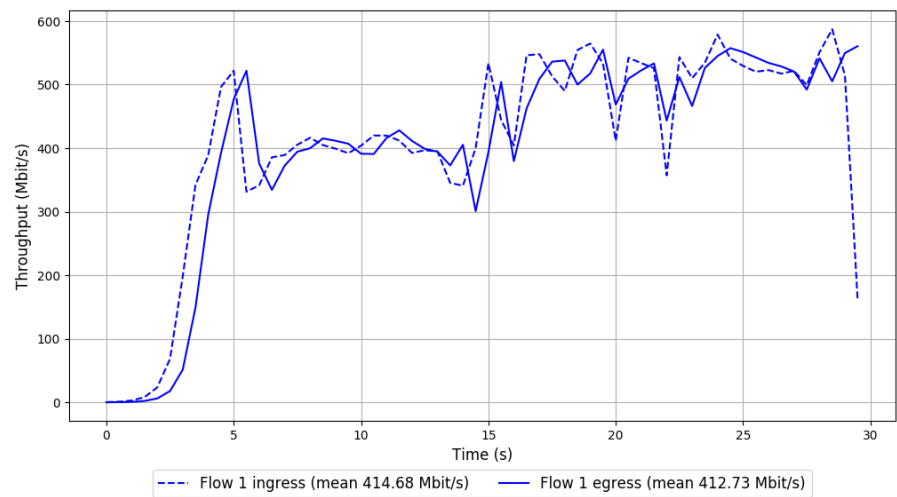


Run 3: Statistics of Muses_DecisionTree

Start at: 2019-10-03 06:46:19
End at: 2019-10-03 06:46:49
Local clock offset: 0.181 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2019-10-03 09:59:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 412.73 Mbit/s
95th percentile per-packet one-way delay: 202.867 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 412.73 Mbit/s
95th percentile per-packet one-way delay: 202.867 ms
Loss rate: 1.37%

Run 3: Report of Muses_DecisionTree — Data Link

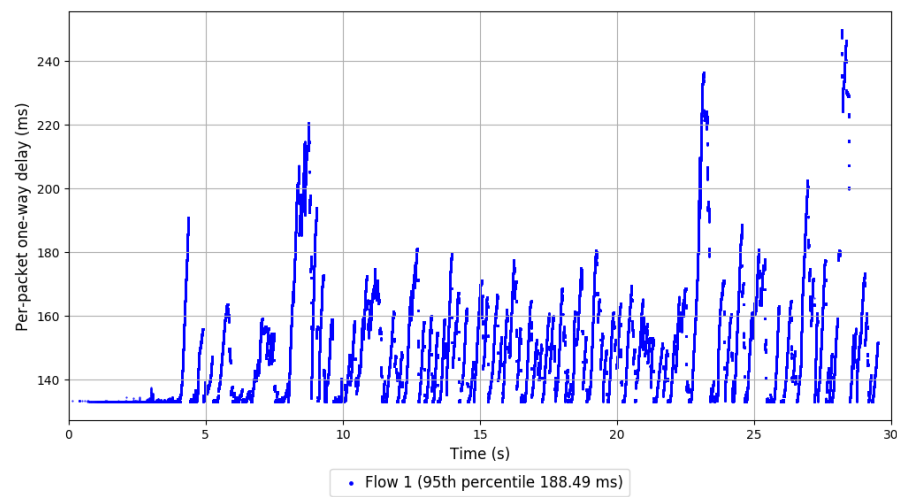
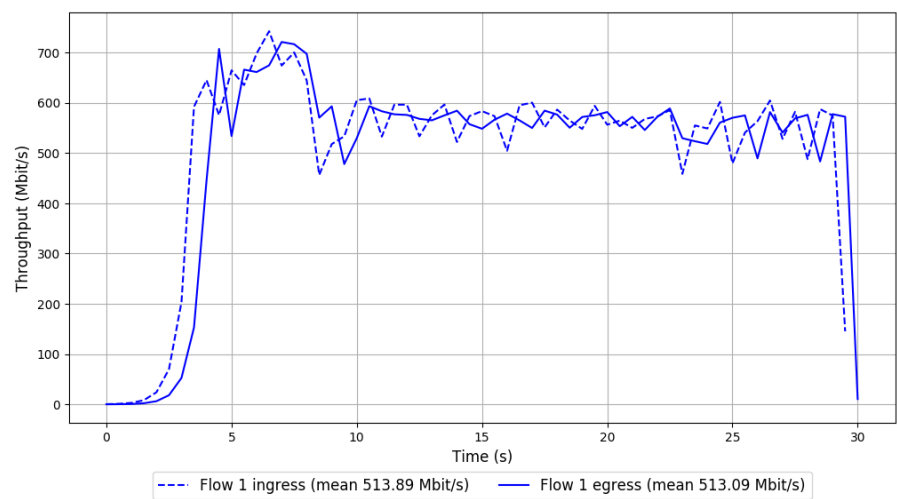


Run 4: Statistics of Muses_DecisionTree

Start at: 2019-10-03 07:22:03
End at: 2019-10-03 07:22:33
Local clock offset: -0.029 ms
Remote clock offset: -0.397 ms

Below is generated by plot.py at 2019-10-03 10:03:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 513.09 Mbit/s
95th percentile per-packet one-way delay: 188.486 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 513.09 Mbit/s
95th percentile per-packet one-way delay: 188.486 ms
Loss rate: 1.05%

Run 4: Report of Muses_DecisionTree — Data Link

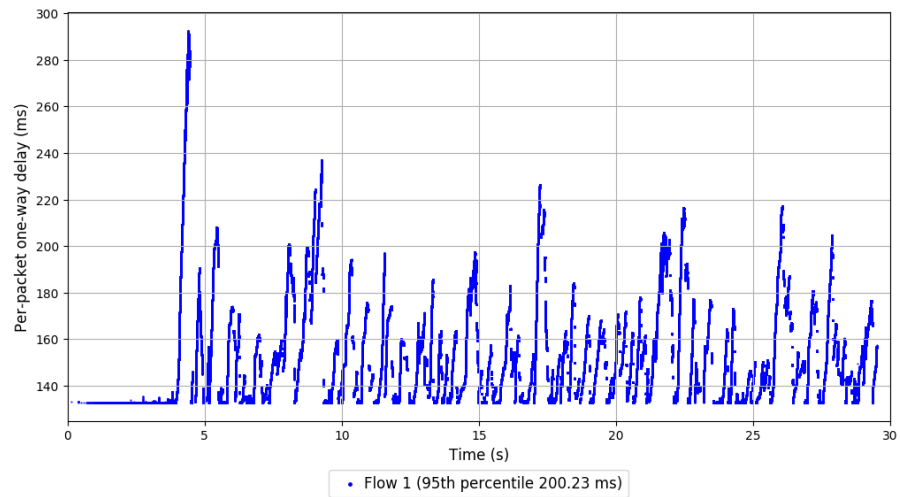
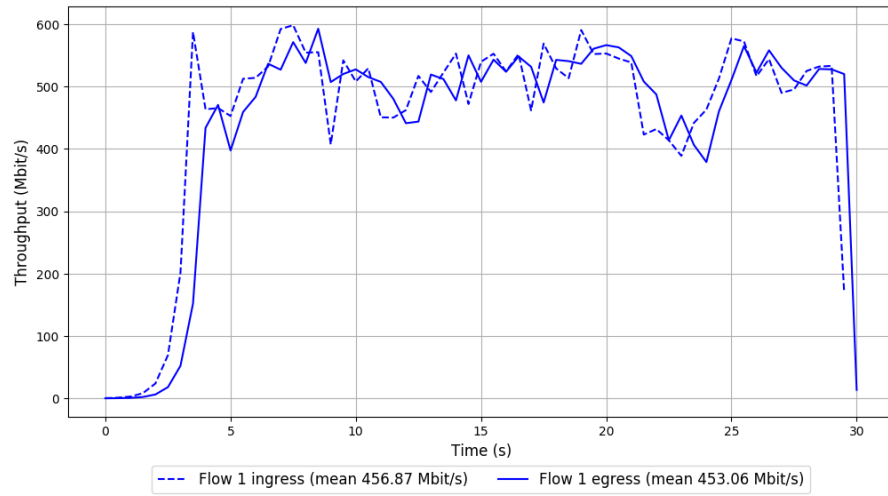


Run 5: Statistics of Muses_DecisionTree

Start at: 2019-10-03 07:57:44
End at: 2019-10-03 07:58:14
Local clock offset: 0.003 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2019-10-03 10:05:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 453.06 Mbit/s
95th percentile per-packet one-way delay: 200.230 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 453.06 Mbit/s
95th percentile per-packet one-way delay: 200.230 ms
Loss rate: 1.72%

Run 5: Report of Muses_DecisionTree — Data Link

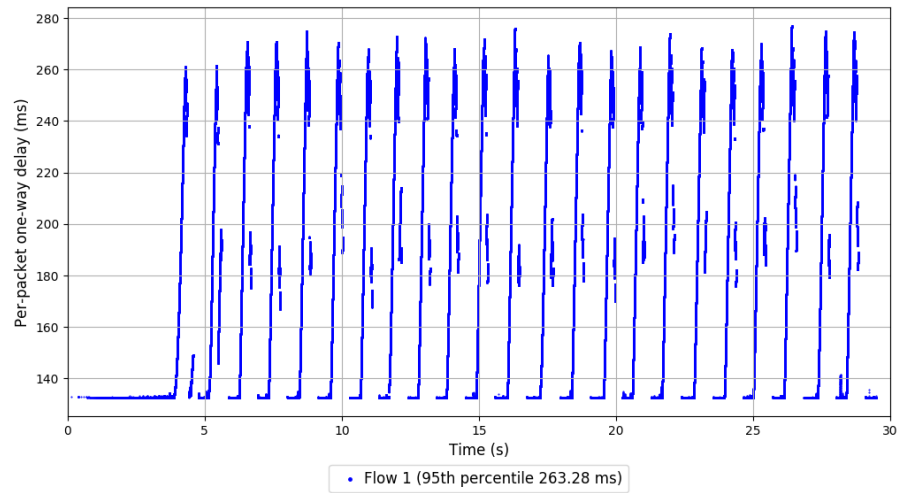
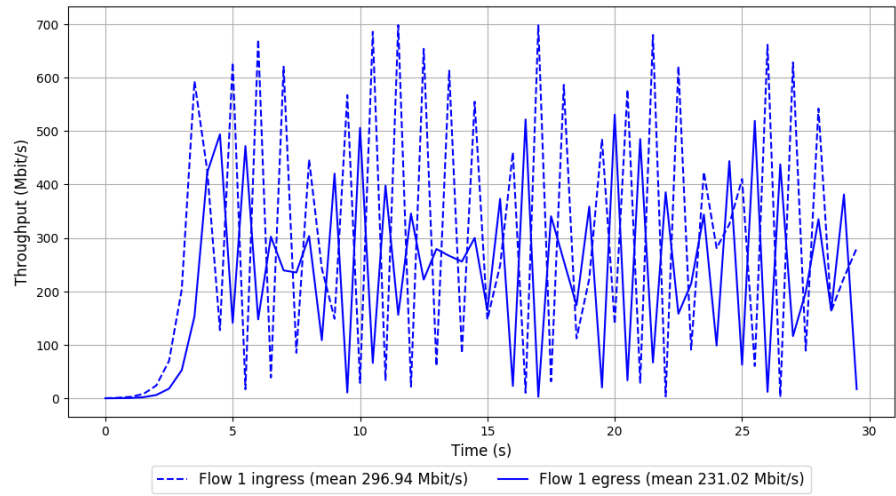



```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-10-03 05:38:44
End at: 2019-10-03 05:39:14
Local clock offset: 0.047 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2019-10-03 10:05:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 231.02 Mbit/s
95th percentile per-packet one-way delay: 263.282 ms
Loss rate: 22.90%
-- Flow 1:
Average throughput: 231.02 Mbit/s
95th percentile per-packet one-way delay: 263.282 ms
Loss rate: 22.90%
```

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-10-03 06:14:28

End at: 2019-10-03 06:14:58

Local clock offset: -0.145 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2019-10-03 10:05:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 236.53 Mbit/s

95th percentile per-packet one-way delay: 261.151 ms

Loss rate: 19.96%

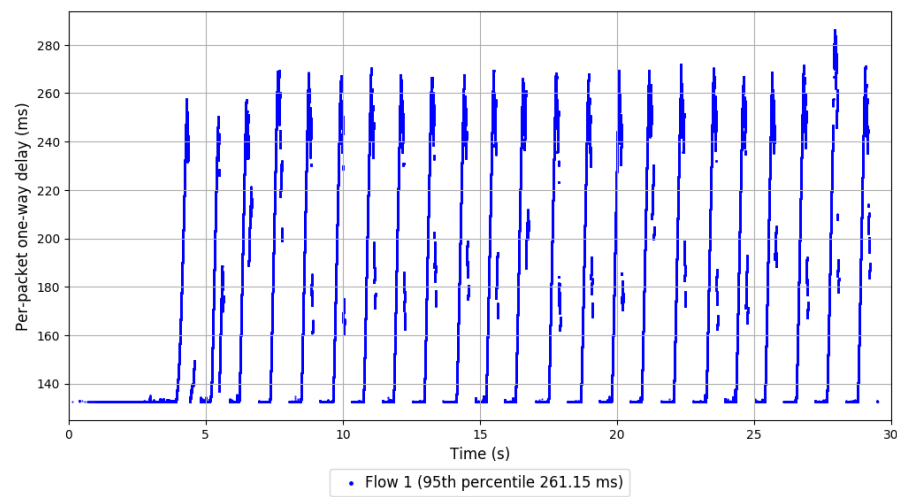
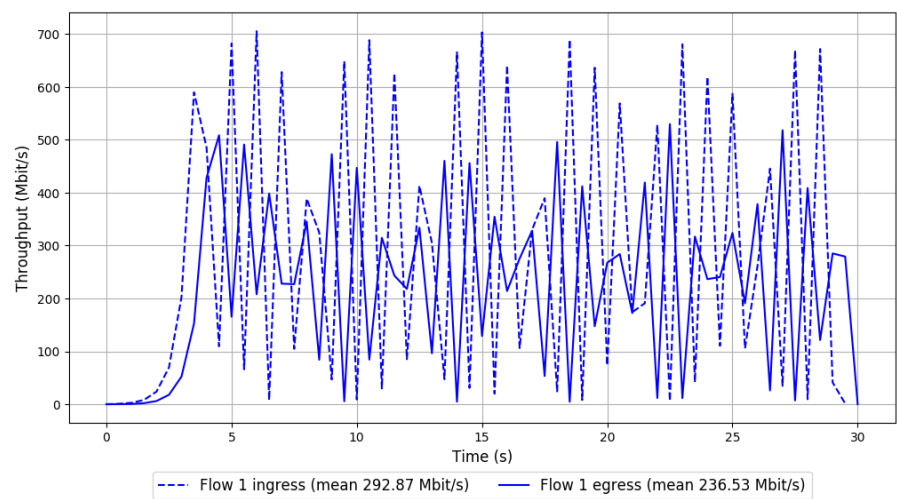
-- Flow 1:

Average throughput: 236.53 Mbit/s

95th percentile per-packet one-way delay: 261.151 ms

Loss rate: 19.96%

Run 2: Report of Muses_DecisionTreeH0 — Data Link

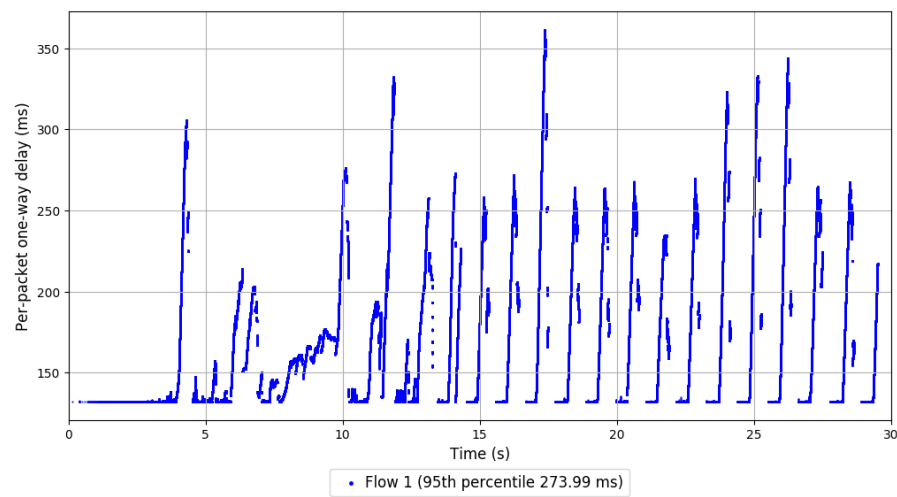
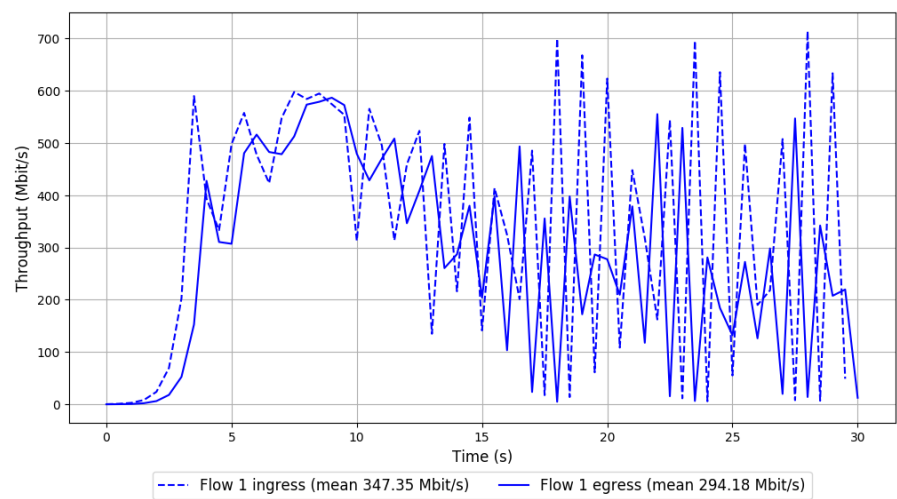


```
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2019-10-03 06:50:28
End at: 2019-10-03 06:50:58
Local clock offset: -0.238 ms
Remote clock offset: 0.352 ms

# Below is generated by plot.py at 2019-10-03 10:05:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 294.18 Mbit/s
95th percentile per-packet one-way delay: 273.989 ms
Loss rate: 15.90%
-- Flow 1:
Average throughput: 294.18 Mbit/s
95th percentile per-packet one-way delay: 273.989 ms
Loss rate: 15.90%
```

Run 3: Report of Muses_DecisionTreeH0 — Data Link

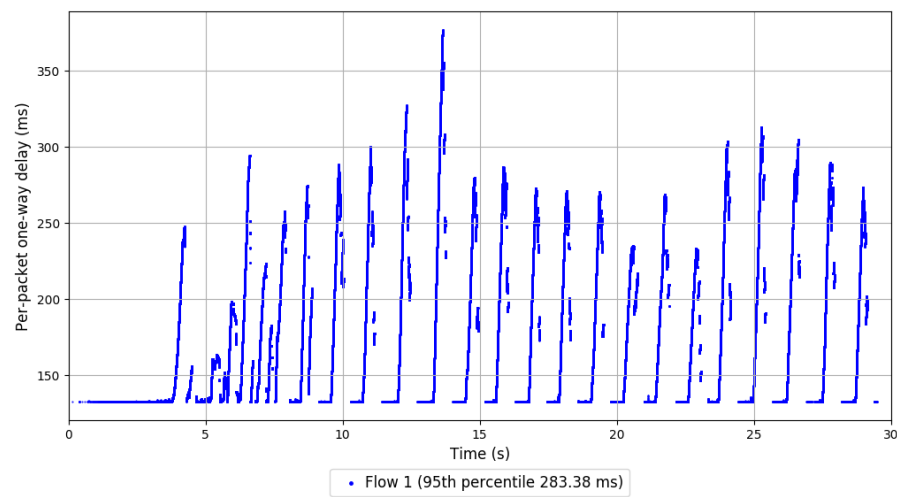
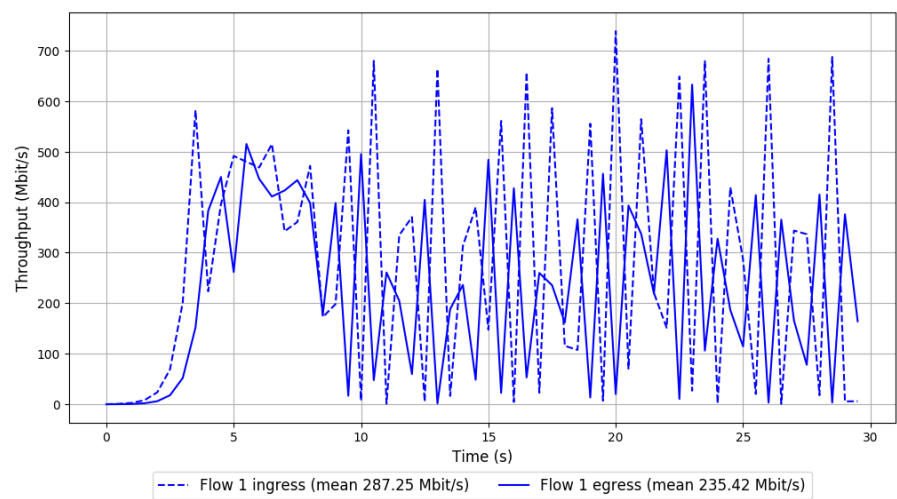


Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-10-03 07:26:21
End at: 2019-10-03 07:26:51
Local clock offset: -0.372 ms
Remote clock offset: -0.046 ms

Below is generated by plot.py at 2019-10-03 10:05:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 235.42 Mbit/s
95th percentile per-packet one-way delay: 283.383 ms
Loss rate: 18.78%
-- Flow 1:
Average throughput: 235.42 Mbit/s
95th percentile per-packet one-way delay: 283.383 ms
Loss rate: 18.78%

Run 4: Report of Muses_DecisionTreeH0 — Data Link



Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-10-03 08:02:00

End at: 2019-10-03 08:02:30

Local clock offset: -0.374 ms

Remote clock offset: 0.049 ms

Below is generated by plot.py at 2019-10-03 10:05:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.29 Mbit/s

95th percentile per-packet one-way delay: 273.419 ms

Loss rate: 22.74%

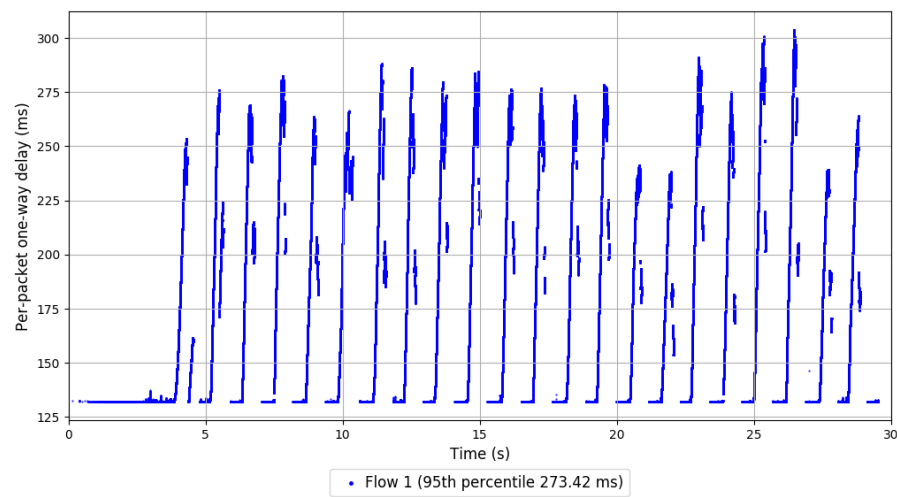
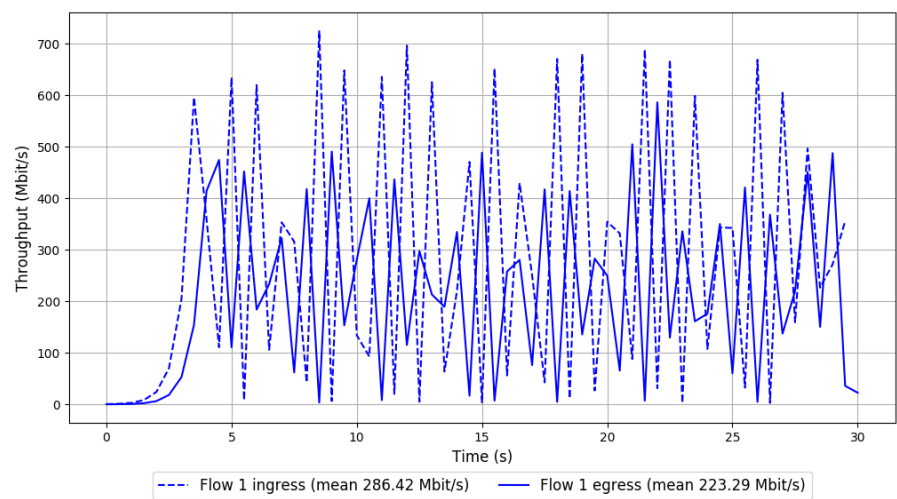
-- Flow 1:

Average throughput: 223.29 Mbit/s

95th percentile per-packet one-way delay: 273.419 ms

Loss rate: 22.74%

Run 5: Report of Muses_DecisionTreeH0 — Data Link

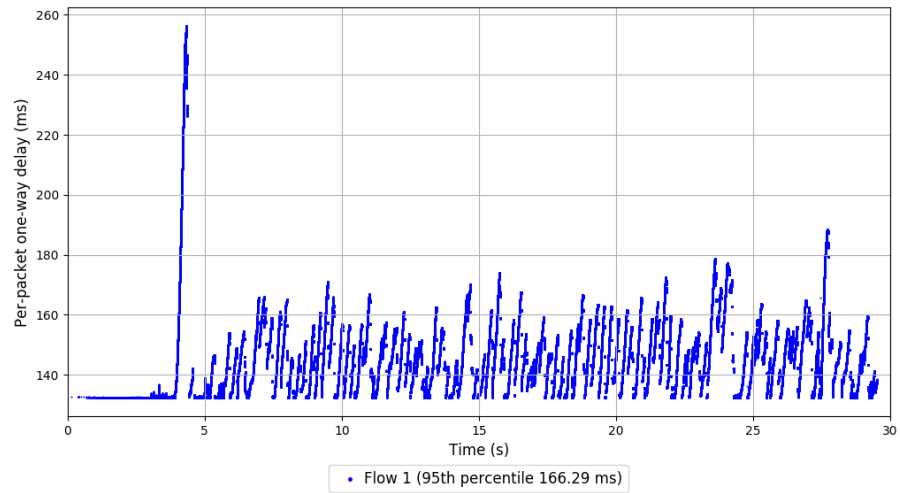
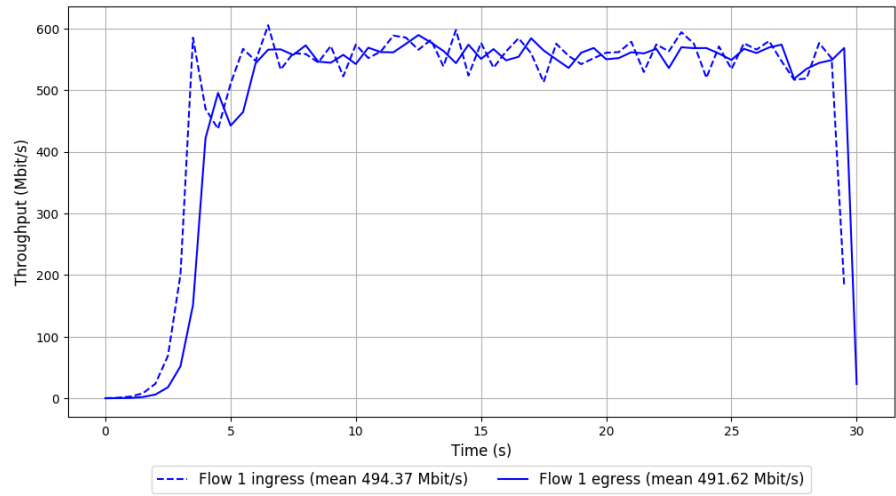


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-10-03 05:52:12
End at: 2019-10-03 05:52:42
Local clock offset: -0.343 ms
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2019-10-03 10:10:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 491.62 Mbit/s
95th percentile per-packet one-way delay: 166.288 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 491.62 Mbit/s
95th percentile per-packet one-way delay: 166.288 ms
Loss rate: 1.45%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-03 06:28:10

End at: 2019-10-03 06:28:40

Local clock offset: -0.398 ms

Remote clock offset: -0.07 ms

Below is generated by plot.py at 2019-10-03 10:12:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 490.51 Mbit/s

95th percentile per-packet one-way delay: 168.013 ms

Loss rate: 1.36%

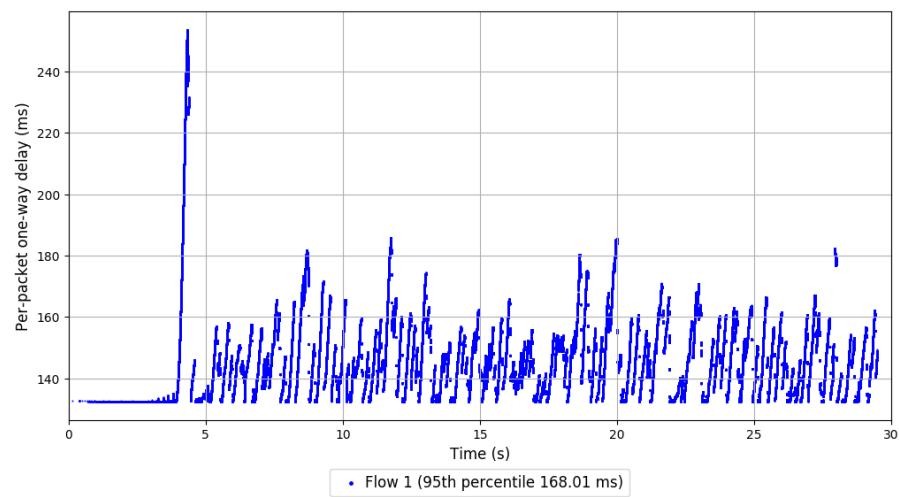
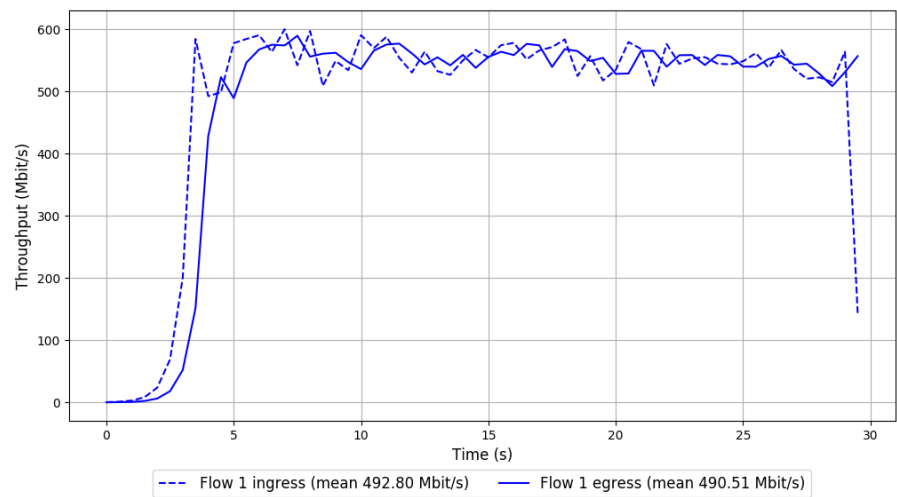
-- Flow 1:

Average throughput: 490.51 Mbit/s

95th percentile per-packet one-way delay: 168.013 ms

Loss rate: 1.36%

Run 2: Report of Muses_DecisionTreeR0 — Data Link

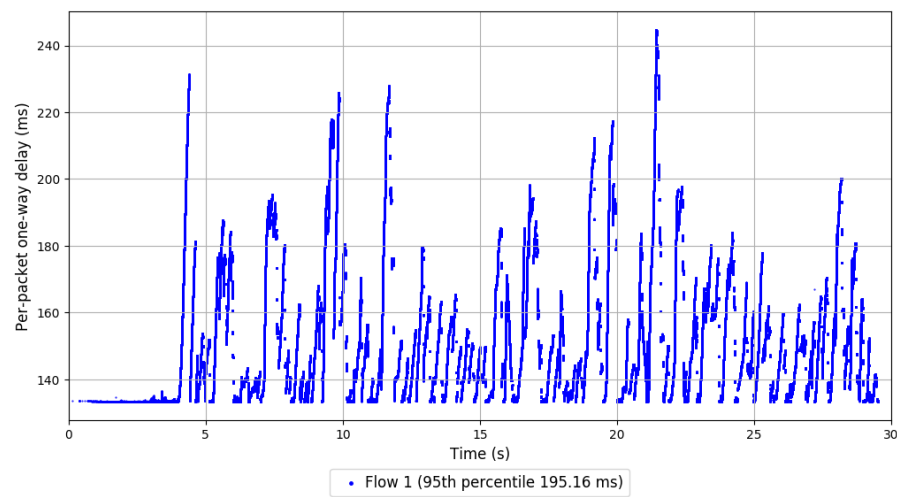
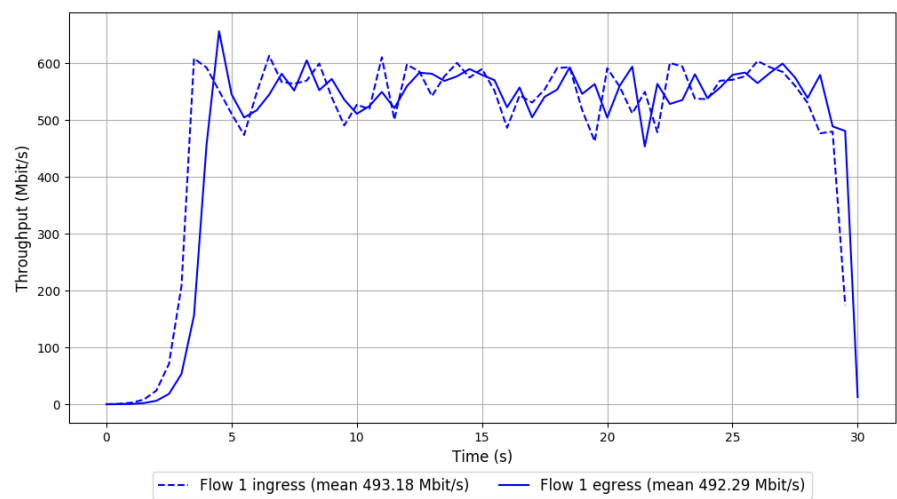


Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-03 07:04:08
End at: 2019-10-03 07:04:38
Local clock offset: 0.216 ms
Remote clock offset: -0.398 ms

Below is generated by plot.py at 2019-10-03 10:14:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 492.29 Mbit/s
95th percentile per-packet one-way delay: 195.158 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 492.29 Mbit/s
95th percentile per-packet one-way delay: 195.158 ms
Loss rate: 1.09%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-03 07:40:00

End at: 2019-10-03 07:40:30

Local clock offset: -0.275 ms

Remote clock offset: -0.07 ms

Below is generated by plot.py at 2019-10-03 10:14:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 467.50 Mbit/s

95th percentile per-packet one-way delay: 199.484 ms

Loss rate: 0.90%

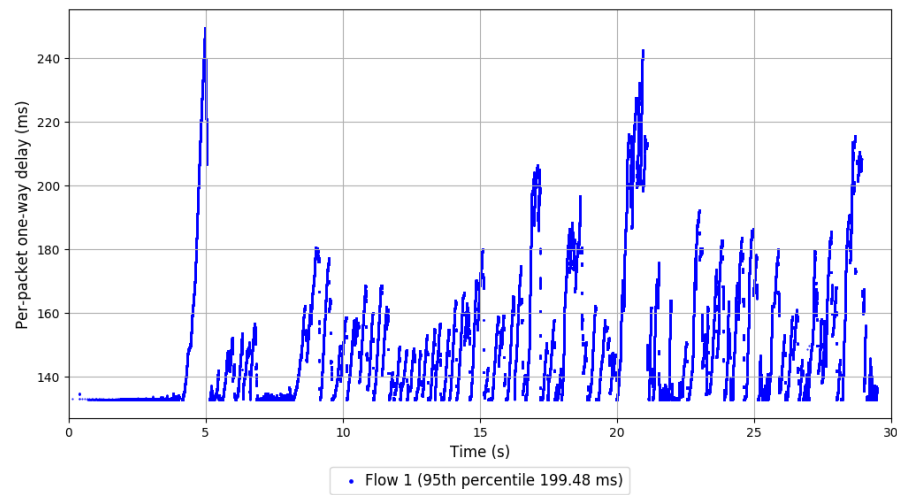
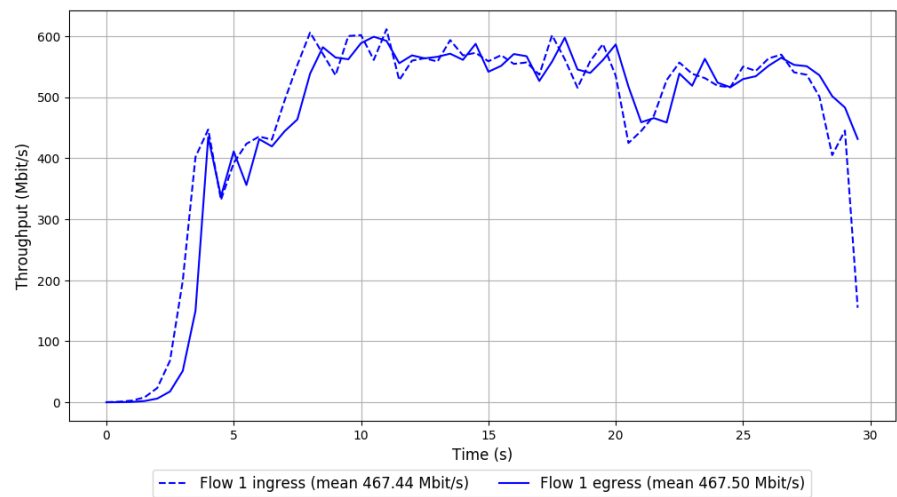
-- Flow 1:

Average throughput: 467.50 Mbit/s

95th percentile per-packet one-way delay: 199.484 ms

Loss rate: 0.90%

Run 4: Report of Muses_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-03 08:15:24

End at: 2019-10-03 08:15:54

Local clock offset: 0.009 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2019-10-03 10:15:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 482.08 Mbit/s

95th percentile per-packet one-way delay: 191.360 ms

Loss rate: 1.21%

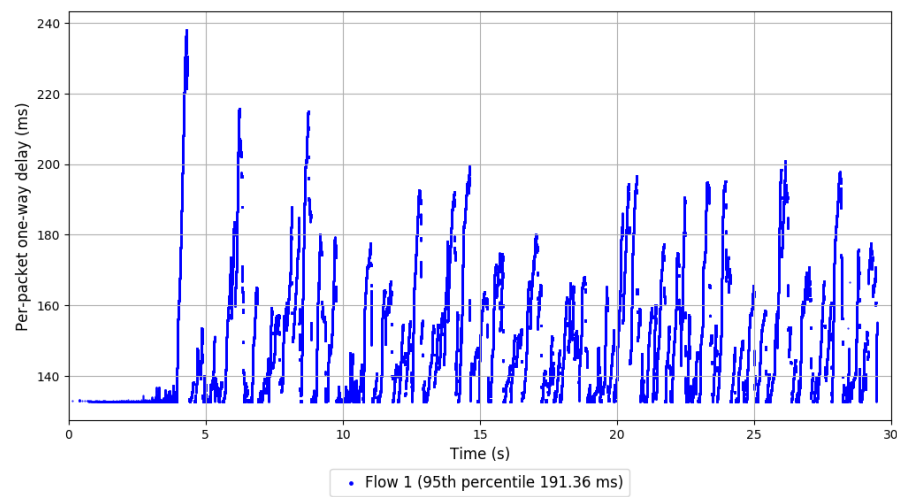
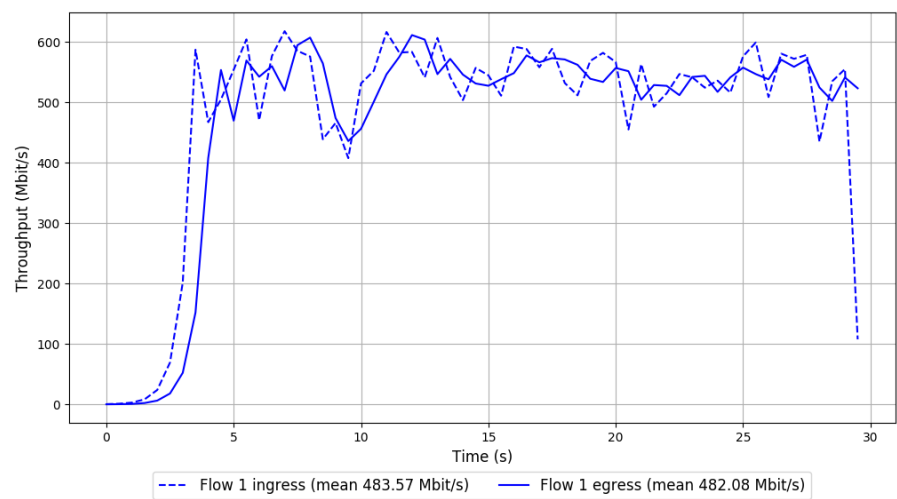
-- Flow 1:

Average throughput: 482.08 Mbit/s

95th percentile per-packet one-way delay: 191.360 ms

Loss rate: 1.21%

Run 5: Report of Muses_DecisionTreeR0 — Data Link

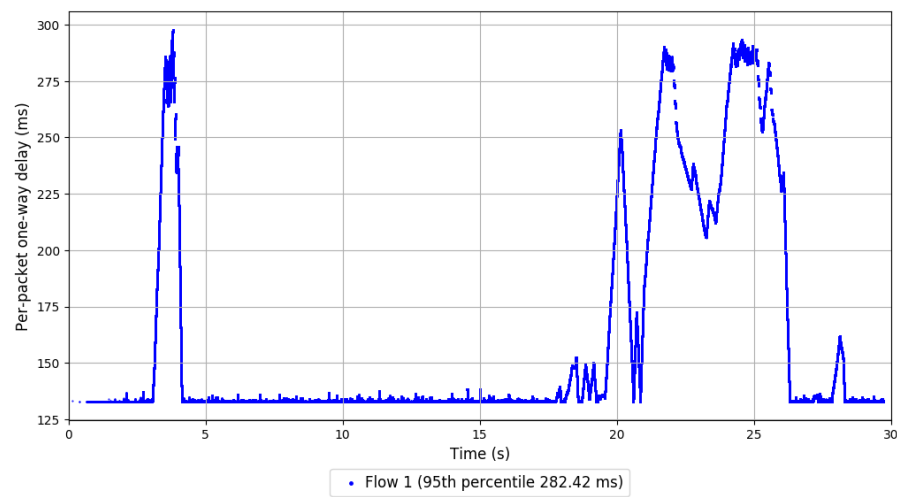
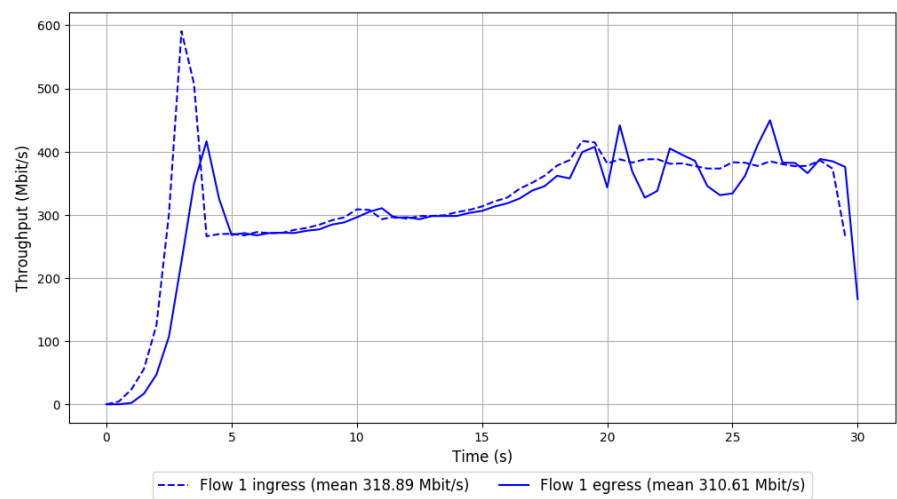


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-10-03 05:53:51
End at: 2019-10-03 05:54:21
Local clock offset: 0.019 ms
Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2019-10-03 10:18:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 310.61 Mbit/s
95th percentile per-packet one-way delay: 282.417 ms
Loss rate: 3.47%
-- Flow 1:
Average throughput: 310.61 Mbit/s
95th percentile per-packet one-way delay: 282.417 ms
Loss rate: 3.47%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-10-03 06:29:48

End at: 2019-10-03 06:30:18

Local clock offset: 0.397 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2019-10-03 10:18:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 293.21 Mbit/s

95th percentile per-packet one-way delay: 198.694 ms

Loss rate: 2.91%

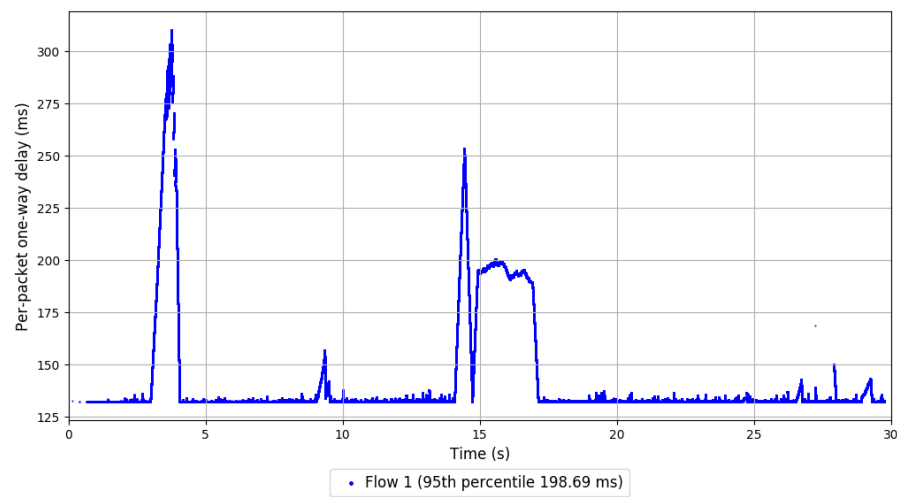
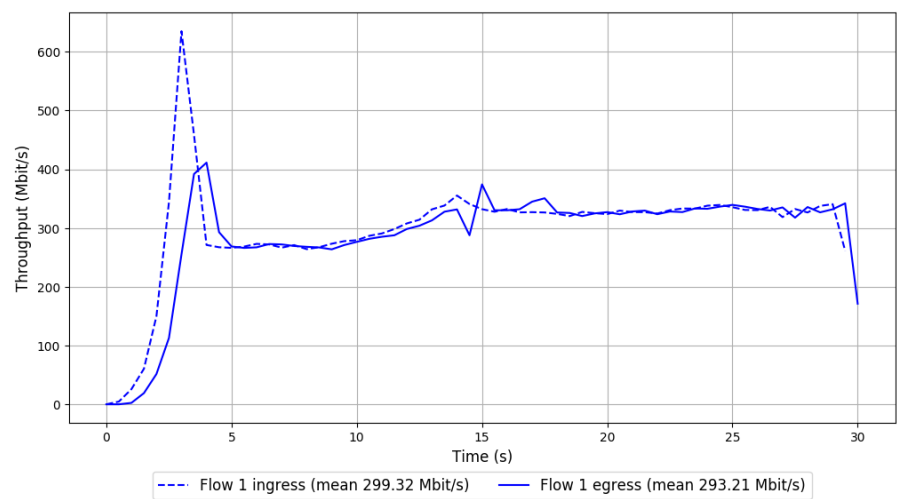
-- Flow 1:

Average throughput: 293.21 Mbit/s

95th percentile per-packet one-way delay: 198.694 ms

Loss rate: 2.91%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-10-03 07:05:47

End at: 2019-10-03 07:06:17

Local clock offset: 0.33 ms

Remote clock offset: -0.438 ms

Below is generated by plot.py at 2019-10-03 10:19:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 307.52 Mbit/s

95th percentile per-packet one-way delay: 289.275 ms

Loss rate: 5.53%

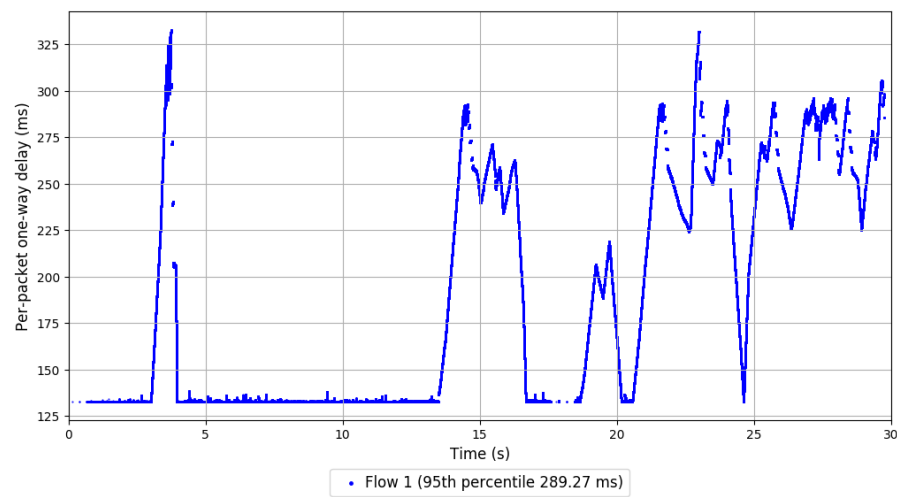
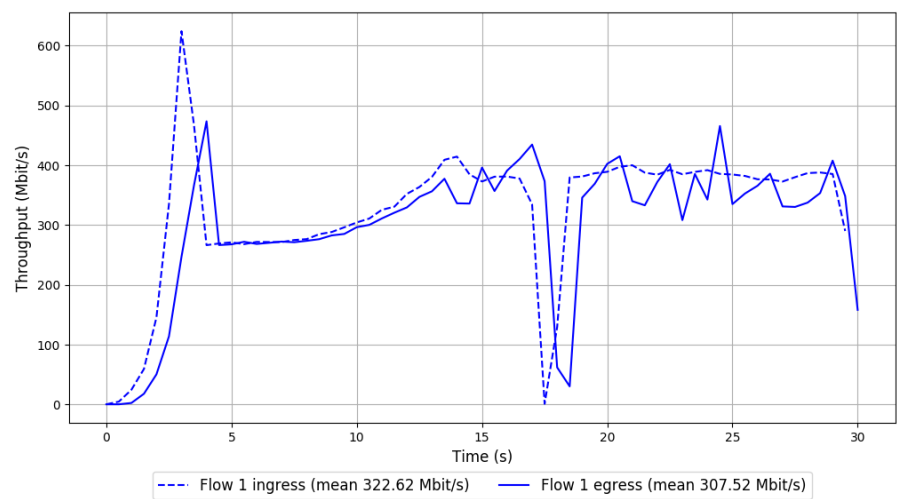
-- Flow 1:

Average throughput: 307.52 Mbit/s

95th percentile per-packet one-way delay: 289.275 ms

Loss rate: 5.53%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-10-03 07:41:38

End at: 2019-10-03 07:42:08

Local clock offset: 0.211 ms

Remote clock offset: -0.046 ms

Below is generated by plot.py at 2019-10-03 10:23:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 290.56 Mbit/s

95th percentile per-packet one-way delay: 210.368 ms

Loss rate: 3.04%

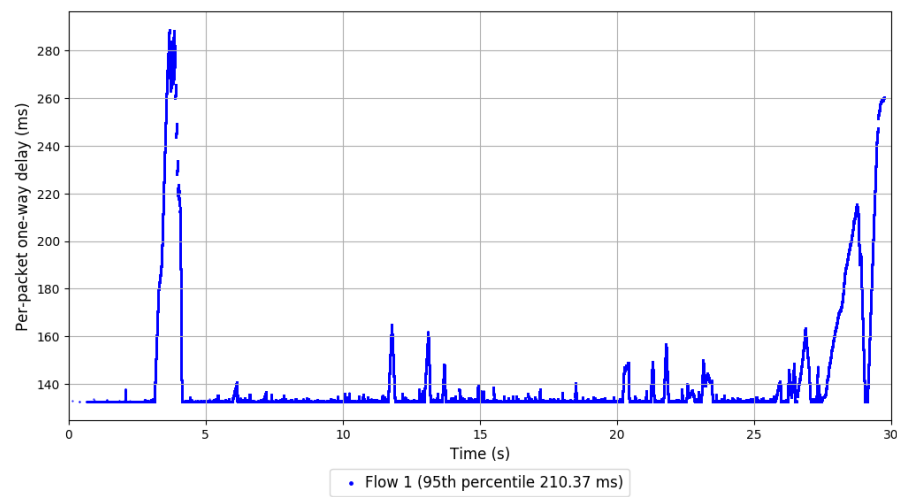
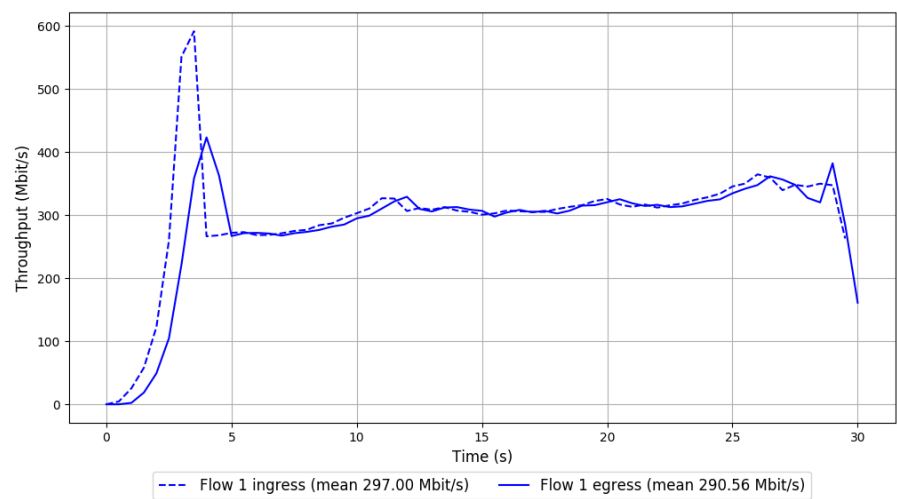
-- Flow 1:

Average throughput: 290.56 Mbit/s

95th percentile per-packet one-way delay: 210.368 ms

Loss rate: 3.04%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-10-03 08:17:01

End at: 2019-10-03 08:17:31

Local clock offset: 0.053 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2019-10-03 10:26:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 290.55 Mbit/s

95th percentile per-packet one-way delay: 169.909 ms

Loss rate: 3.04%

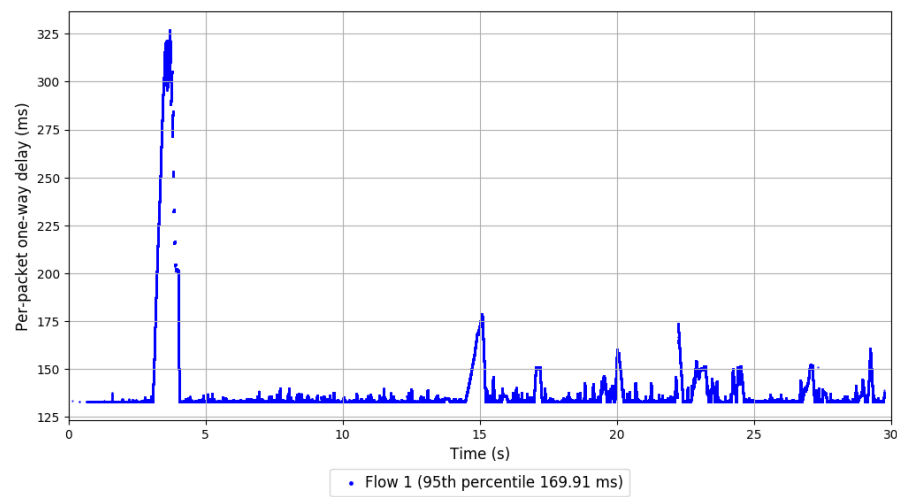
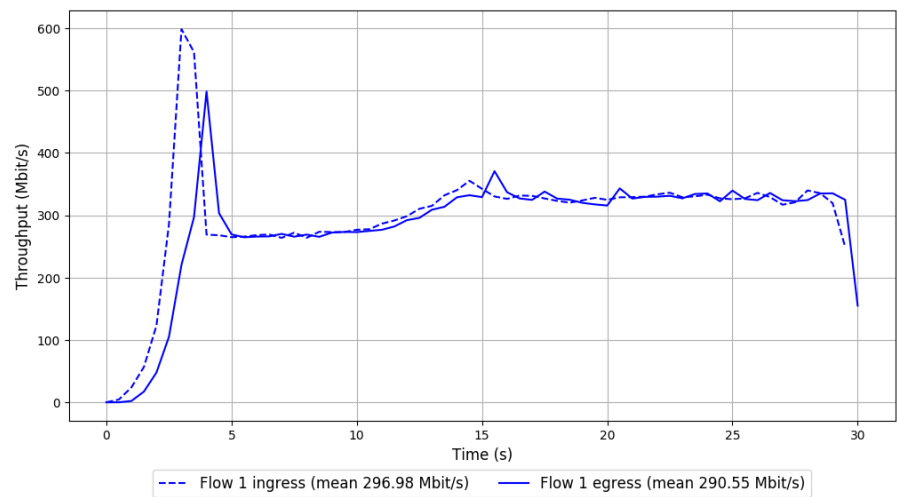
-- Flow 1:

Average throughput: 290.55 Mbit/s

95th percentile per-packet one-way delay: 169.909 ms

Loss rate: 3.04%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-10-03 05:48:58

End at: 2019-10-03 05:49:28

Local clock offset: 0.054 ms

Remote clock offset: -0.041 ms

Below is generated by plot.py at 2019-10-03 10:26:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.12 Mbit/s

95th percentile per-packet one-way delay: 190.235 ms

Loss rate: 1.86%

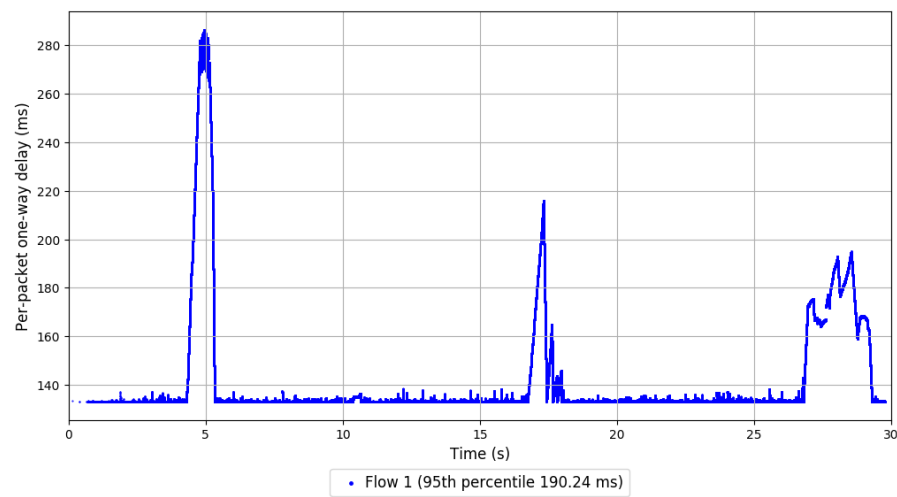
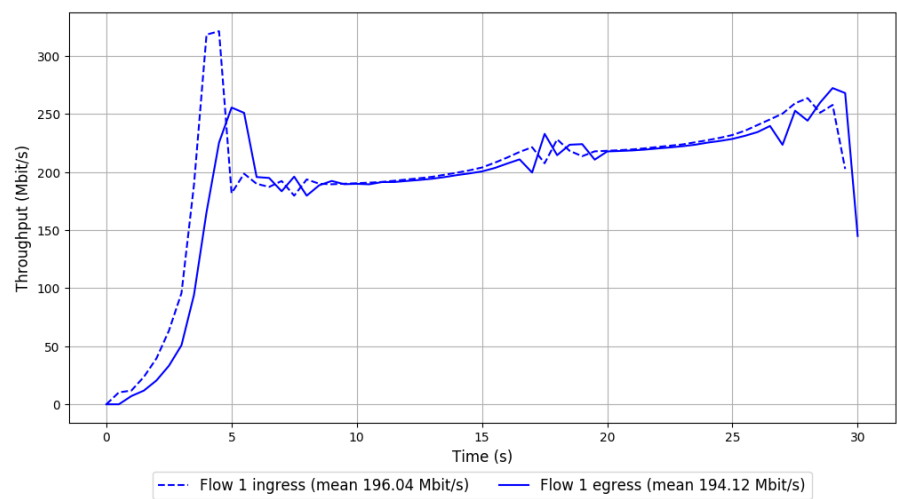
-- Flow 1:

Average throughput: 194.12 Mbit/s

95th percentile per-packet one-way delay: 190.235 ms

Loss rate: 1.86%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-10-03 06:24:48

End at: 2019-10-03 06:25:18

Local clock offset: -0.411 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2019-10-03 10:26:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.96 Mbit/s

95th percentile per-packet one-way delay: 274.860 ms

Loss rate: 2.38%

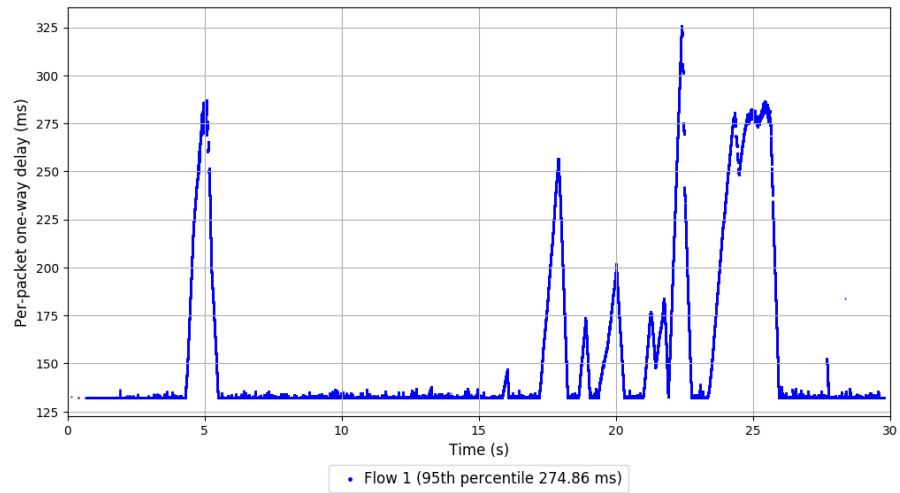
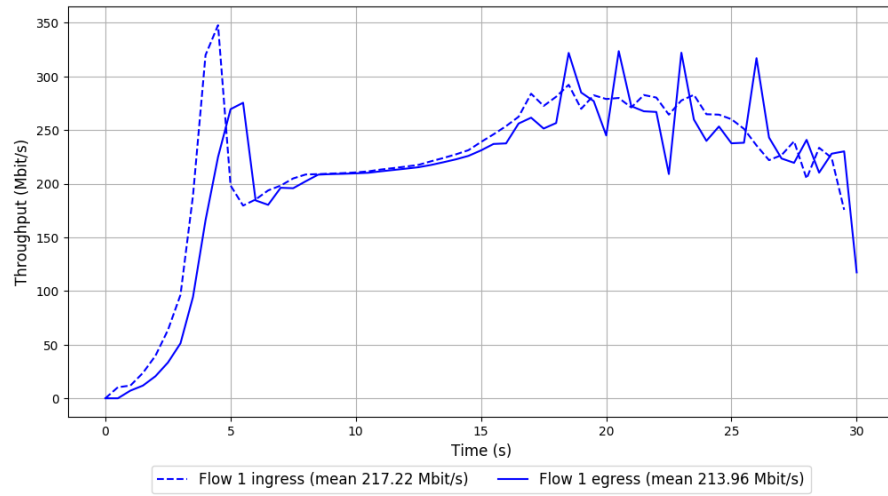
-- Flow 1:

Average throughput: 213.96 Mbit/s

95th percentile per-packet one-way delay: 274.860 ms

Loss rate: 2.38%

Run 2: Report of PCC-Expr — Data Link

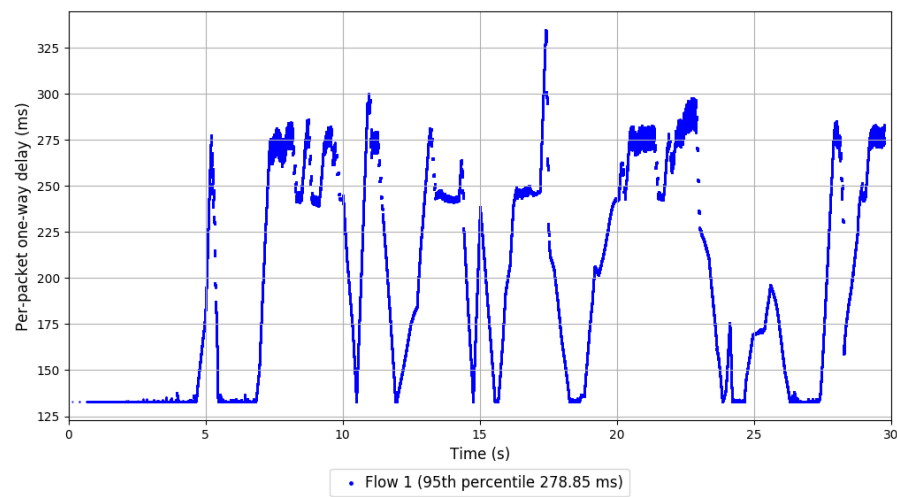
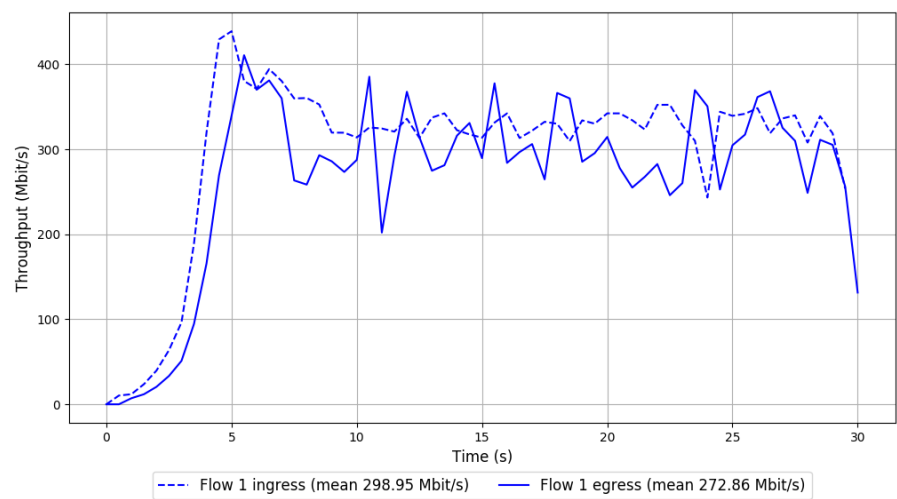


Run 3: Statistics of PCC-Expr

Start at: 2019-10-03 07:00:41
End at: 2019-10-03 07:01:11
Local clock offset: 0.1 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2019-10-03 10:27:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 272.86 Mbit/s
95th percentile per-packet one-way delay: 278.850 ms
Loss rate: 9.54%
-- Flow 1:
Average throughput: 272.86 Mbit/s
95th percentile per-packet one-way delay: 278.850 ms
Loss rate: 9.54%

Run 3: Report of PCC-Expr — Data Link

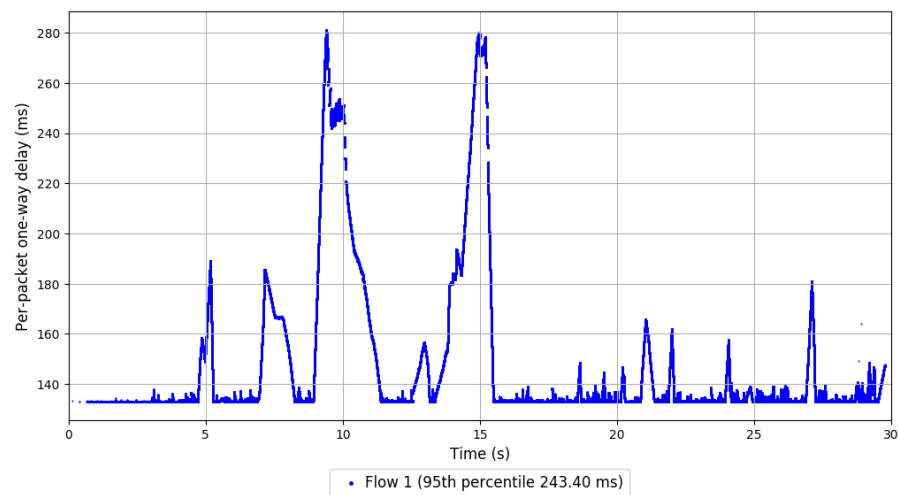
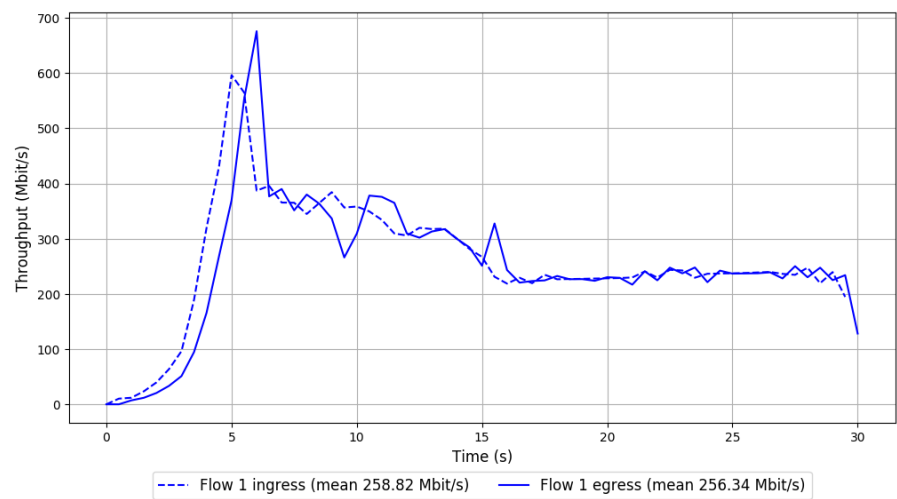


Run 4: Statistics of PCC-Expr

Start at: 2019-10-03 07:36:37
End at: 2019-10-03 07:37:07
Local clock offset: 0.034 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2019-10-03 10:29:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 256.34 Mbit/s
95th percentile per-packet one-way delay: 243.399 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 256.34 Mbit/s
95th percentile per-packet one-way delay: 243.399 ms
Loss rate: 1.84%

Run 4: Report of PCC-Expr — Data Link

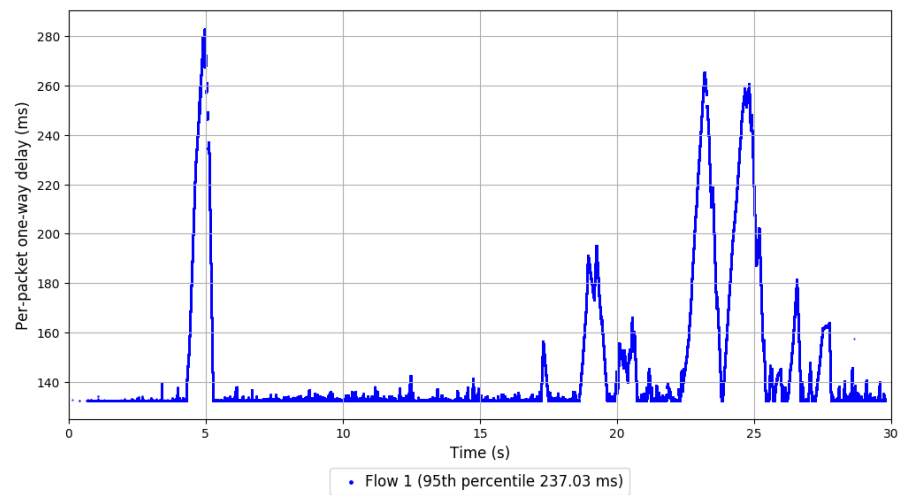
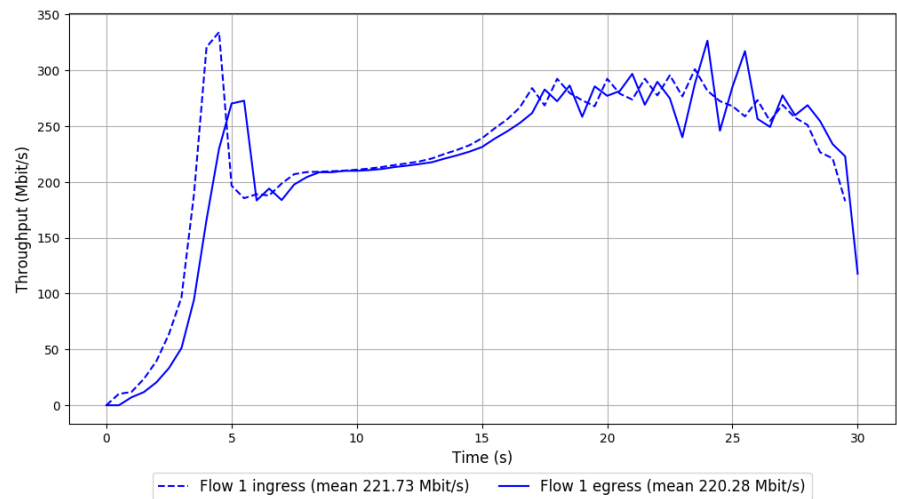


Run 5: Statistics of PCC-Expr

Start at: 2019-10-03 08:12:05
End at: 2019-10-03 08:12:35
Local clock offset: -0.177 ms
Remote clock offset: -0.318 ms

Below is generated by plot.py at 2019-10-03 10:29:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 220.28 Mbit/s
95th percentile per-packet one-way delay: 237.030 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 220.28 Mbit/s
95th percentile per-packet one-way delay: 237.030 ms
Loss rate: 1.54%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-10-03 06:06:09

End at: 2019-10-03 06:06:39

Local clock offset: 0.033 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2019-10-03 10:29:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.21 Mbit/s

95th percentile per-packet one-way delay: 133.090 ms

Loss rate: 1.47%

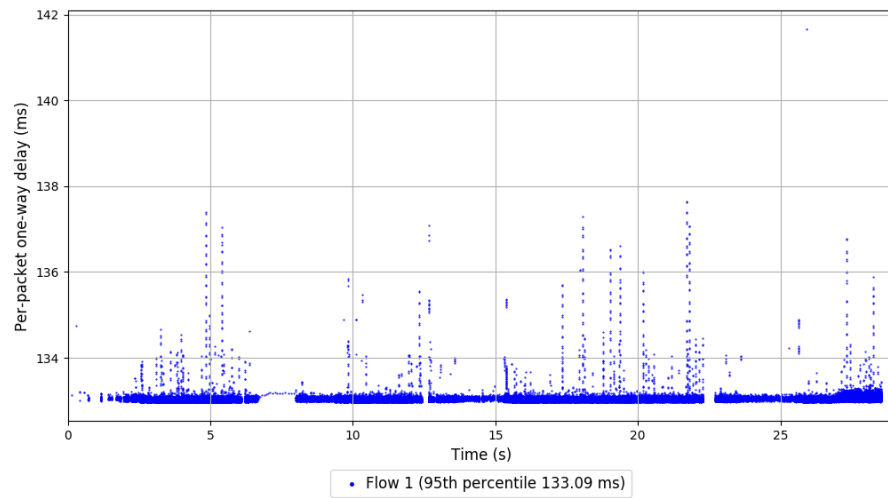
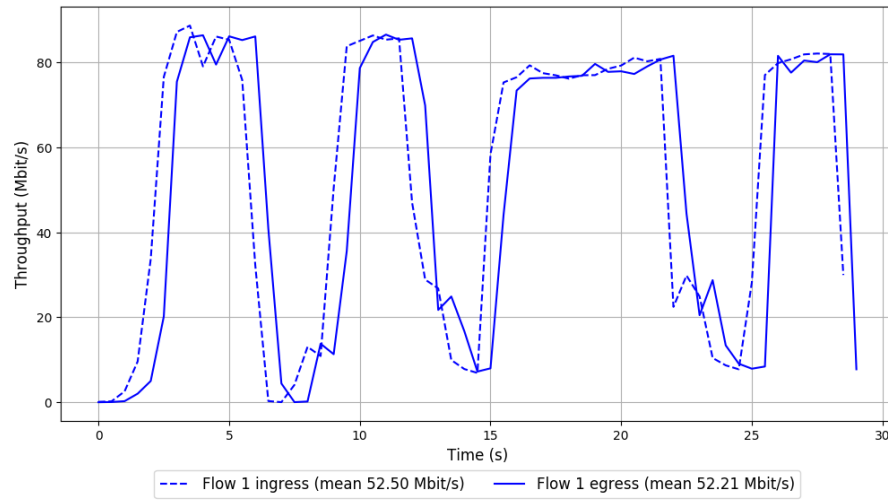
-- Flow 1:

Average throughput: 52.21 Mbit/s

95th percentile per-packet one-way delay: 133.090 ms

Loss rate: 1.47%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-10-03 06:42:16

End at: 2019-10-03 06:42:46

Local clock offset: 0.142 ms

Remote clock offset: -0.036 ms

Below is generated by plot.py at 2019-10-03 10:29:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.21 Mbit/s

95th percentile per-packet one-way delay: 133.034 ms

Loss rate: 1.50%

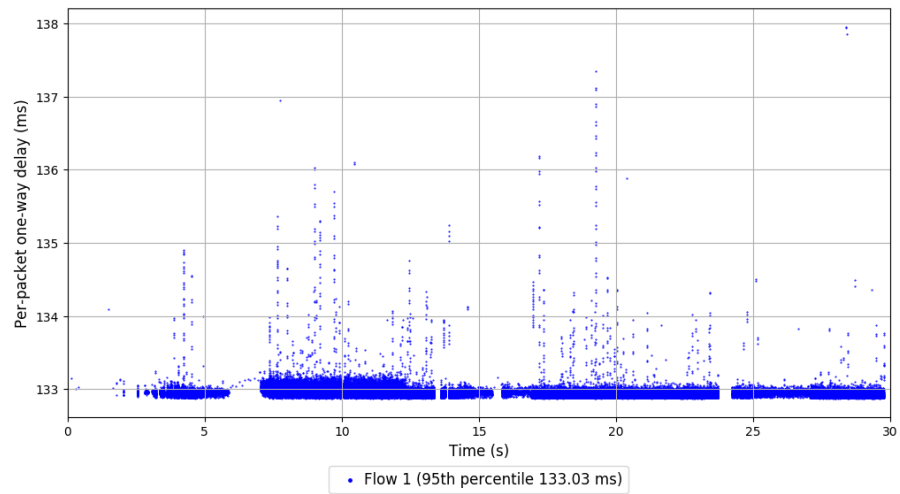
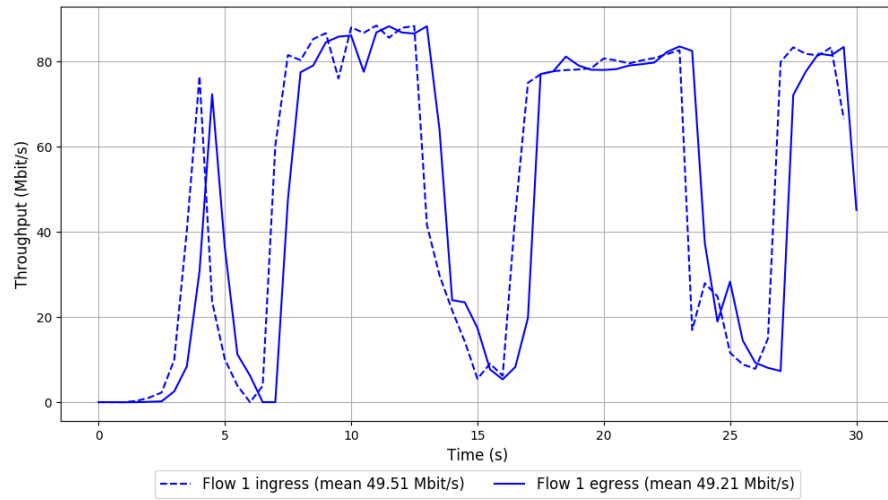
-- Flow 1:

Average throughput: 49.21 Mbit/s

95th percentile per-packet one-way delay: 133.034 ms

Loss rate: 1.50%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-10-03 07:18:01

End at: 2019-10-03 07:18:31

Local clock offset: -0.056 ms

Remote clock offset: -0.06 ms

Below is generated by plot.py at 2019-10-03 10:29:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.69 Mbit/s

95th percentile per-packet one-way delay: 132.128 ms

Loss rate: 1.33%

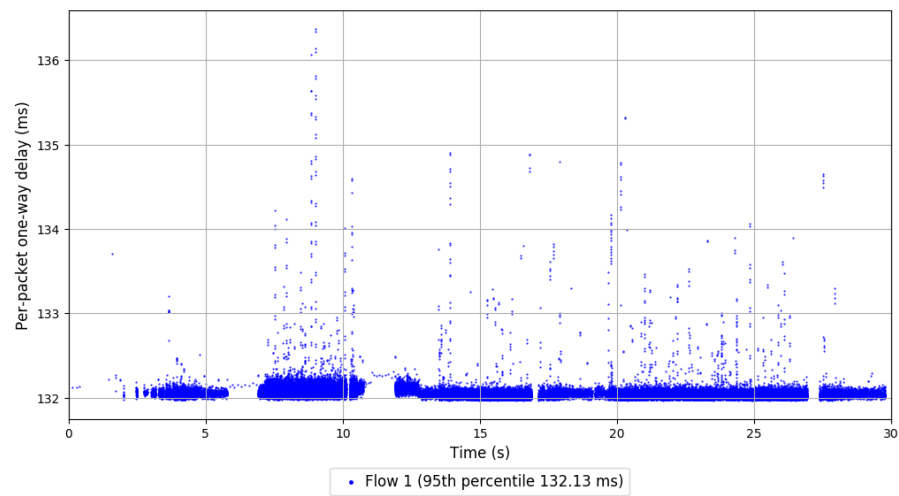
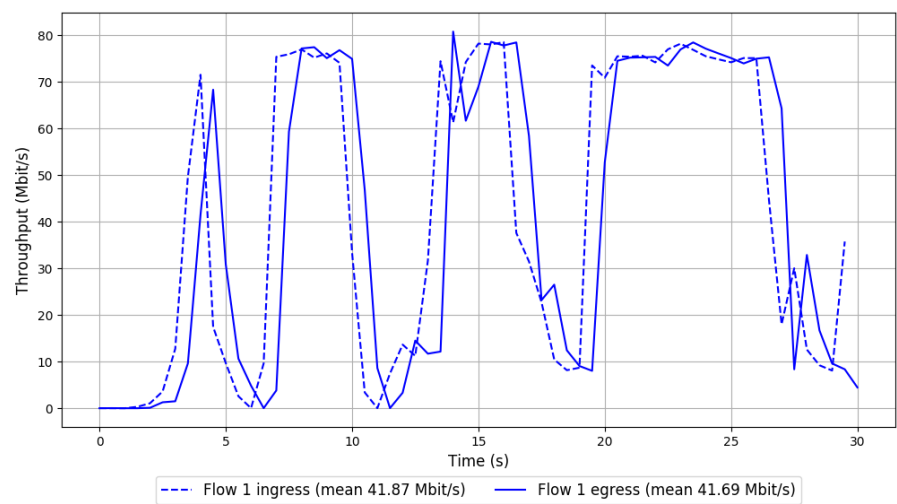
-- Flow 1:

Average throughput: 41.69 Mbit/s

95th percentile per-packet one-way delay: 132.128 ms

Loss rate: 1.33%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-10-03 07:53:45

End at: 2019-10-03 07:54:15

Local clock offset: -0.143 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2019-10-03 10:29:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.70 Mbit/s

95th percentile per-packet one-way delay: 131.957 ms

Loss rate: 1.37%

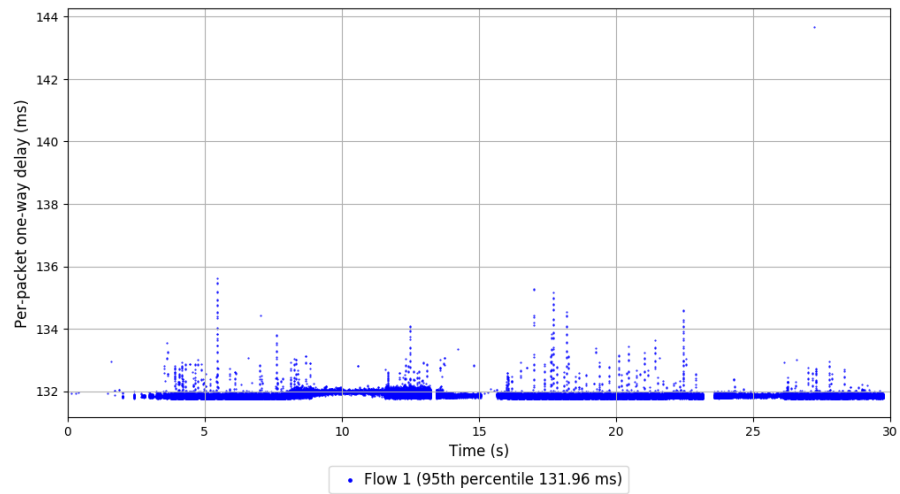
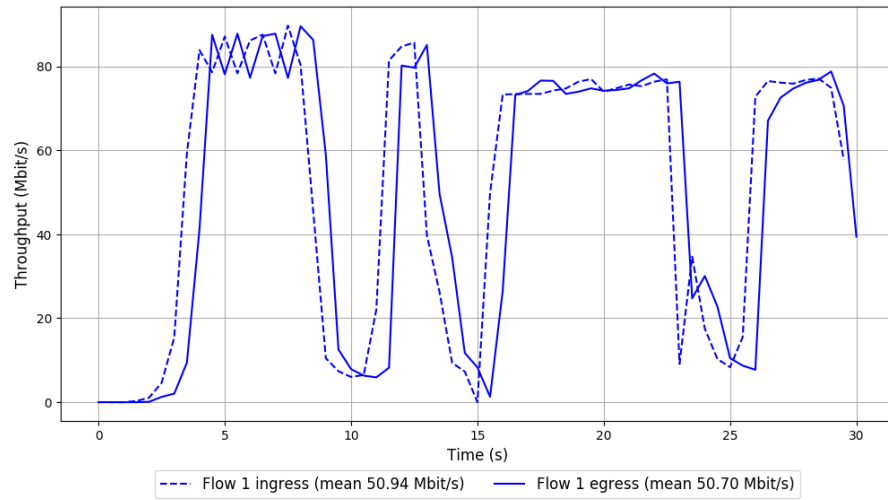
-- Flow 1:

Average throughput: 50.70 Mbit/s

95th percentile per-packet one-way delay: 131.957 ms

Loss rate: 1.37%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-10-03 08:29:14

End at: 2019-10-03 08:29:44

Local clock offset: 0.369 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2019-10-03 10:29:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.35 Mbit/s

95th percentile per-packet one-way delay: 133.360 ms

Loss rate: 1.58%

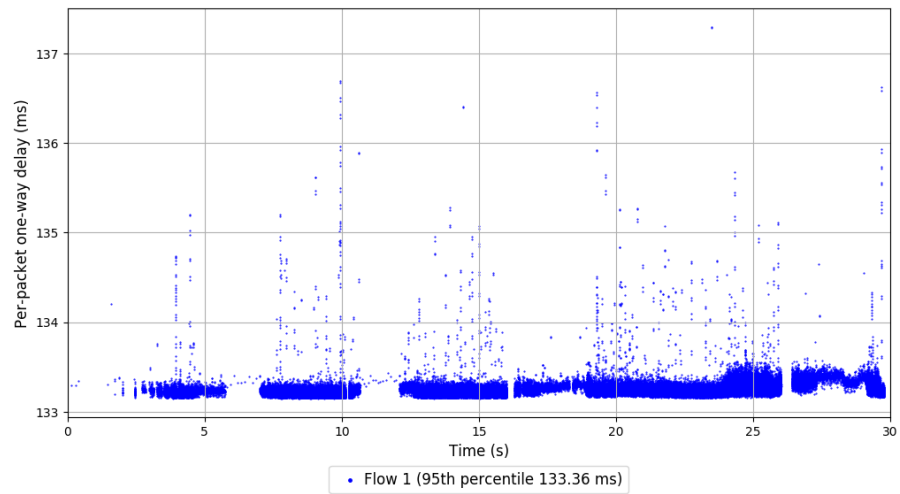
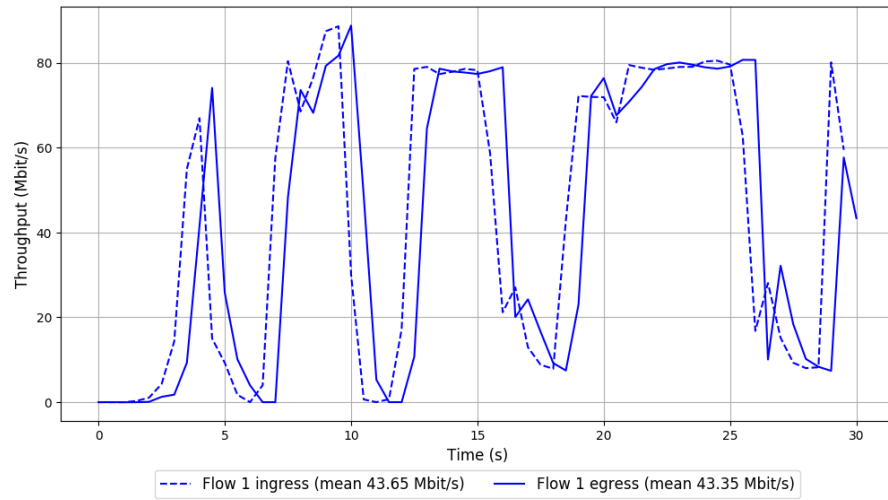
-- Flow 1:

Average throughput: 43.35 Mbit/s

95th percentile per-packet one-way delay: 133.360 ms

Loss rate: 1.58%

Run 5: Report of QUIC Cubic — Data Link

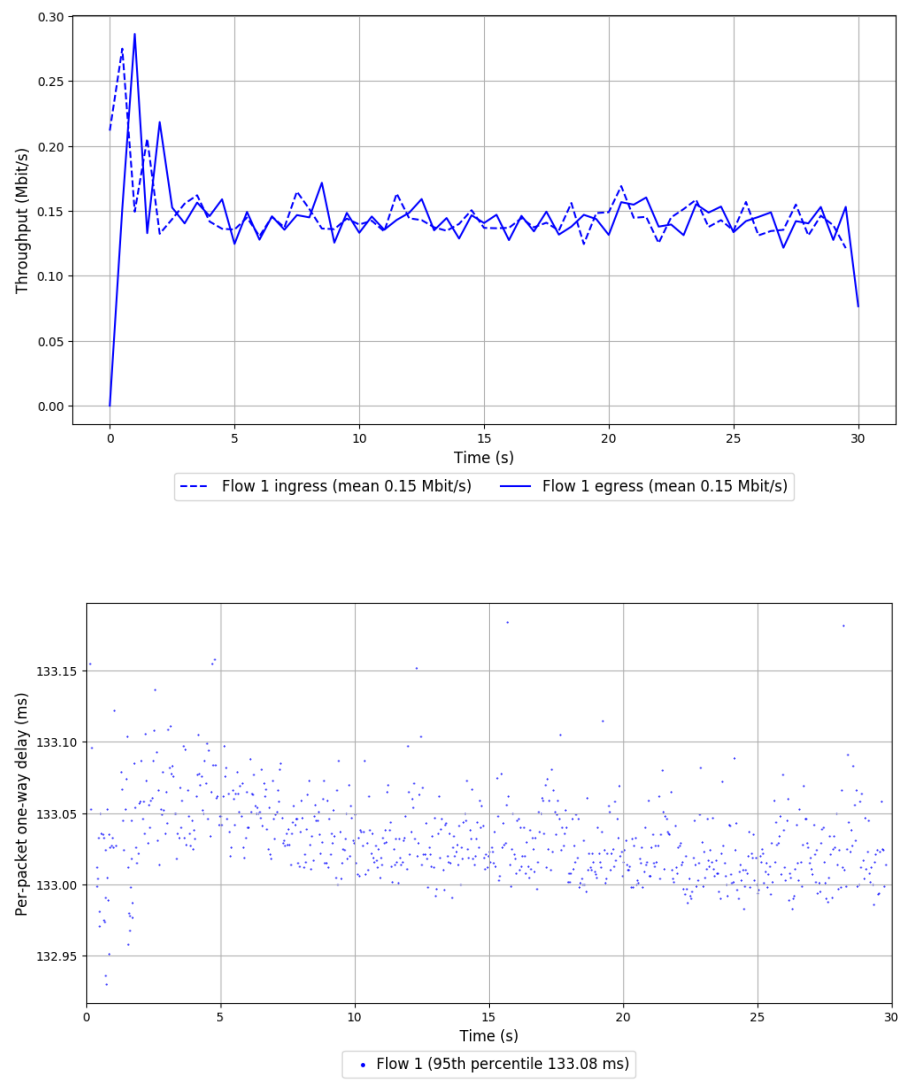


Run 1: Statistics of SCReAM

Start at: 2019-10-03 05:36:08
End at: 2019-10-03 05:36:38
Local clock offset: 0.164 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2019-10-03 10:29:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.083 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.083 ms
Loss rate: 0.88%

Run 1: Report of SReAM — Data Link

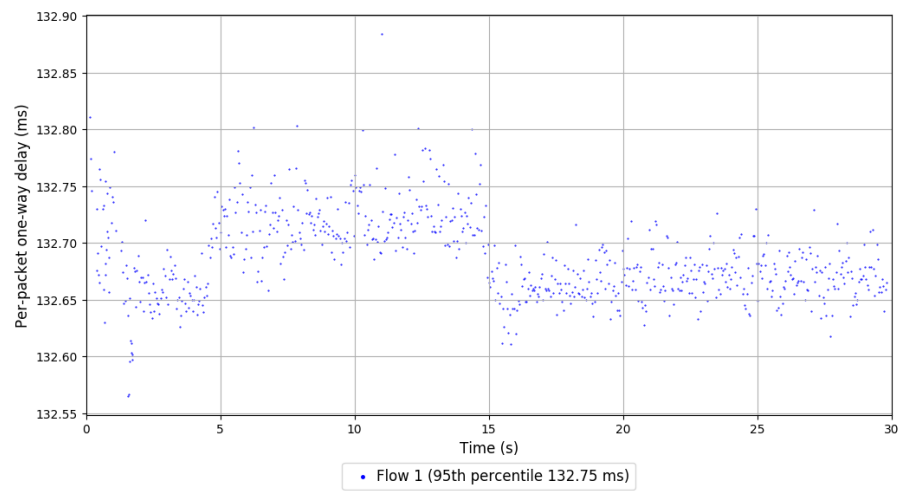
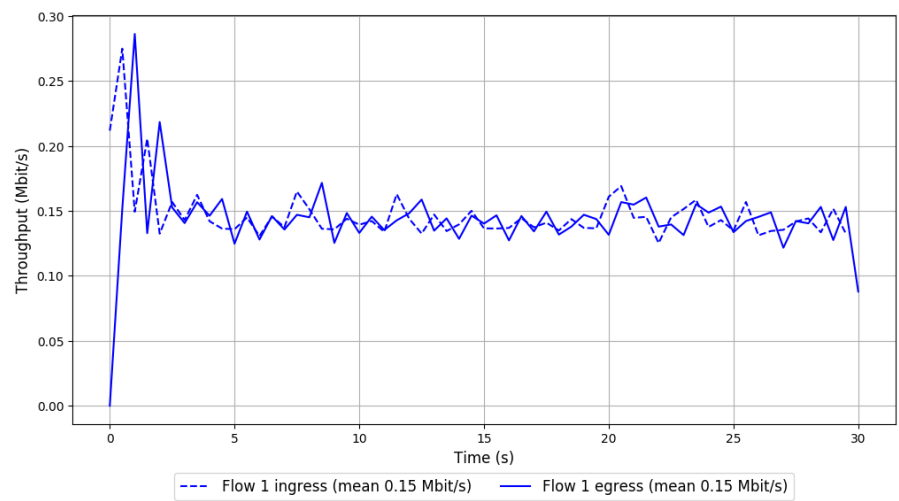


Run 2: Statistics of SCReAM

Start at: 2019-10-03 06:11:48
End at: 2019-10-03 06:12:18
Local clock offset: -0.278 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2019-10-03 10:29:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.753 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.753 ms
Loss rate: 0.88%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-10-03 06:47:54

End at: 2019-10-03 06:48:24

Local clock offset: 0.135 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2019-10-03 10:29:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 133.157 ms

Loss rate: 0.88%

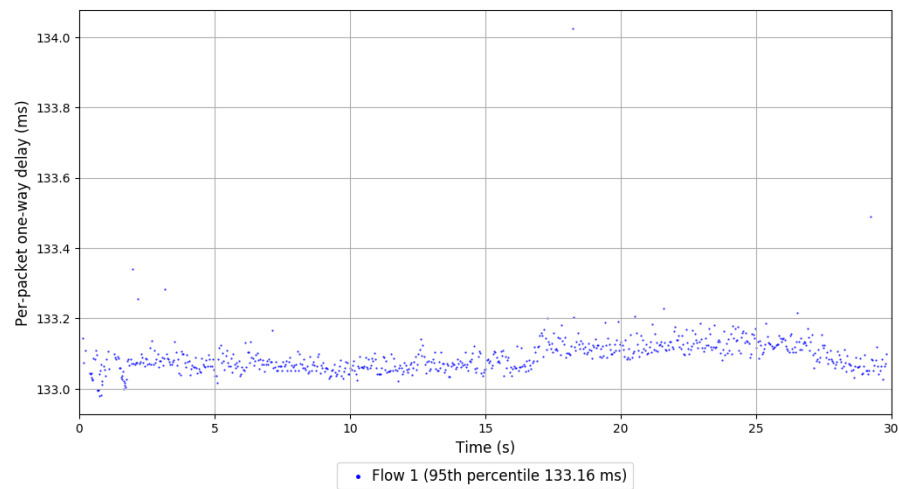
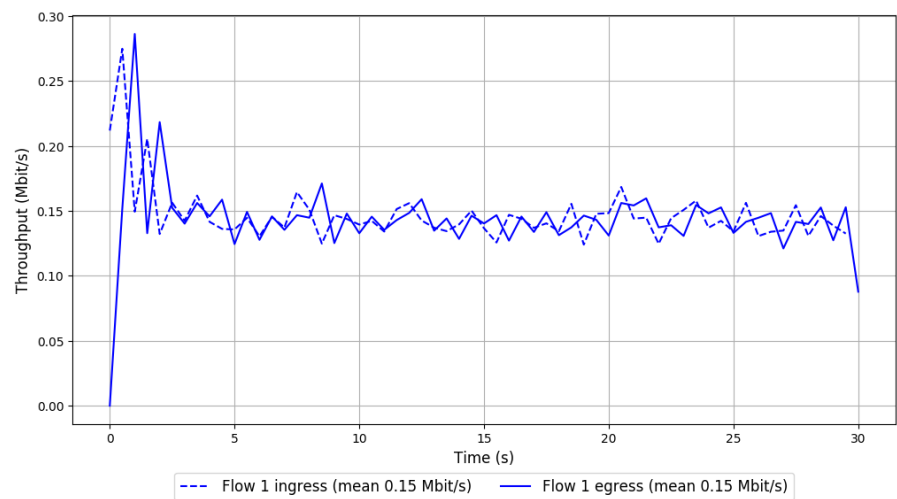
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 133.157 ms

Loss rate: 0.88%

Run 3: Report of SReAM — Data Link

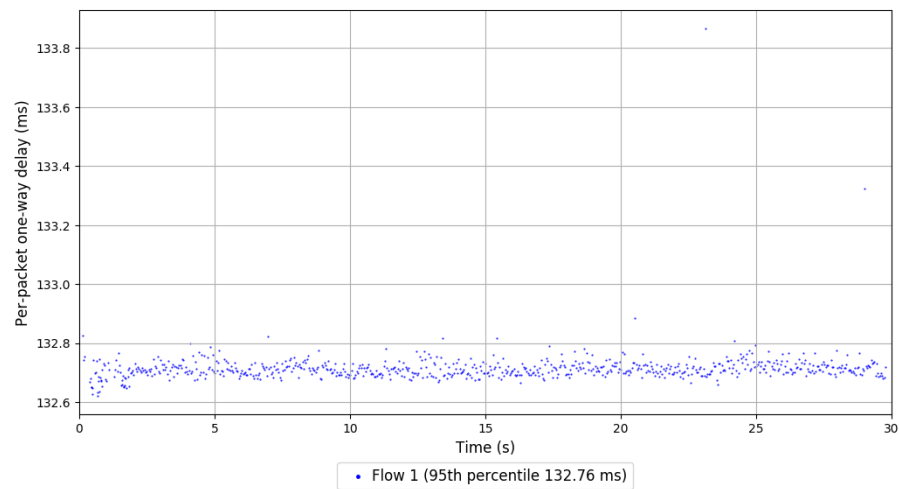
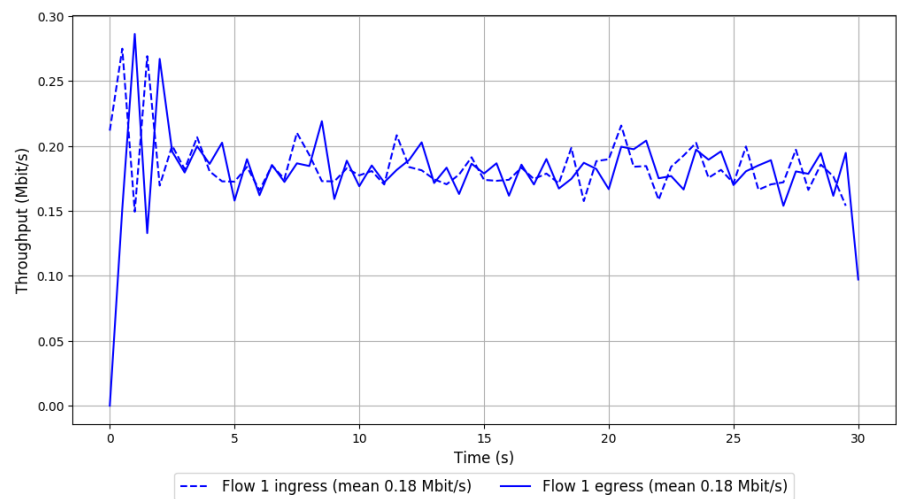


Run 4: Statistics of SCReAM

Start at: 2019-10-03 07:23:43
End at: 2019-10-03 07:24:13
Local clock offset: -0.204 ms
Remote clock offset: -0.051 ms

Below is generated by plot.py at 2019-10-03 10:29:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 132.762 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 132.762 ms
Loss rate: 0.89%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-10-03 07:59:21

End at: 2019-10-03 07:59:51

Local clock offset: -0.413 ms

Remote clock offset: 0.011 ms

Below is generated by plot.py at 2019-10-03 10:29:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 132.736 ms

Loss rate: 0.88%

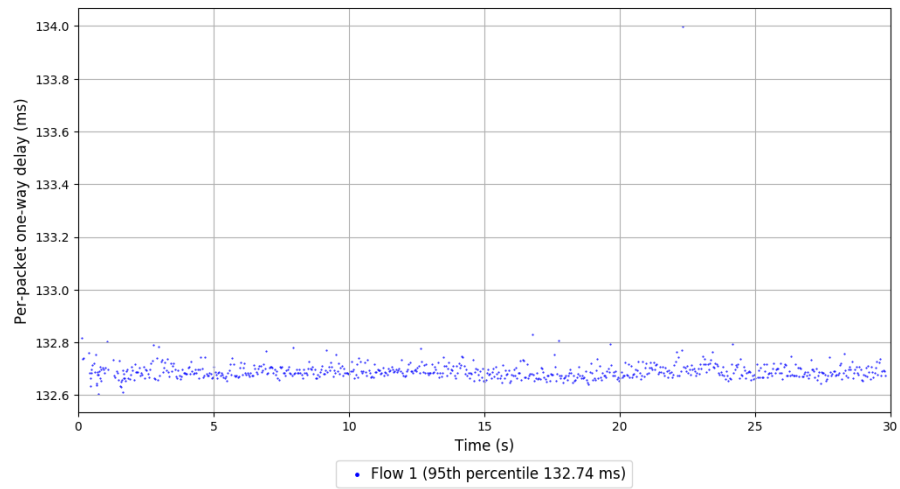
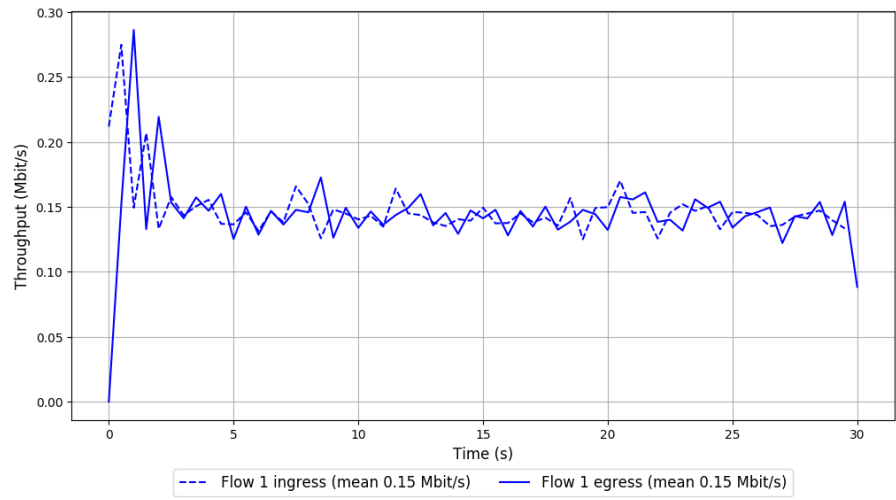
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 132.736 ms

Loss rate: 0.88%

Run 5: Report of SReAM — Data Link

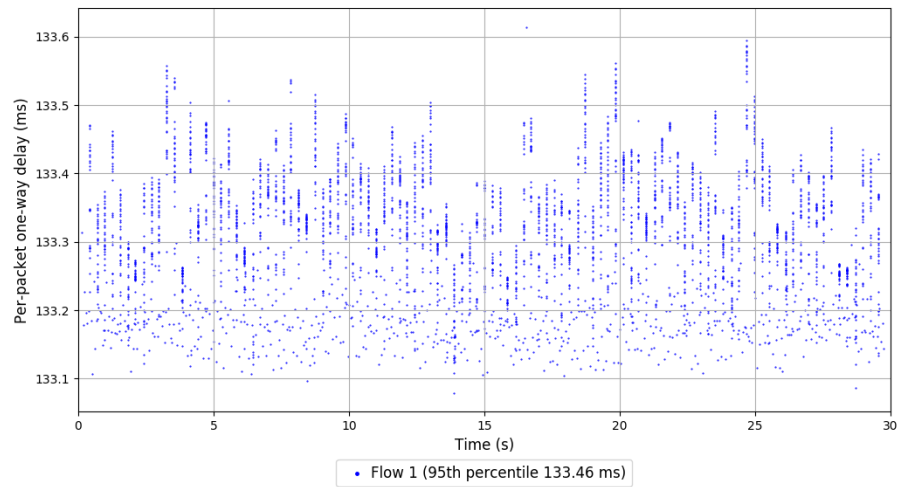
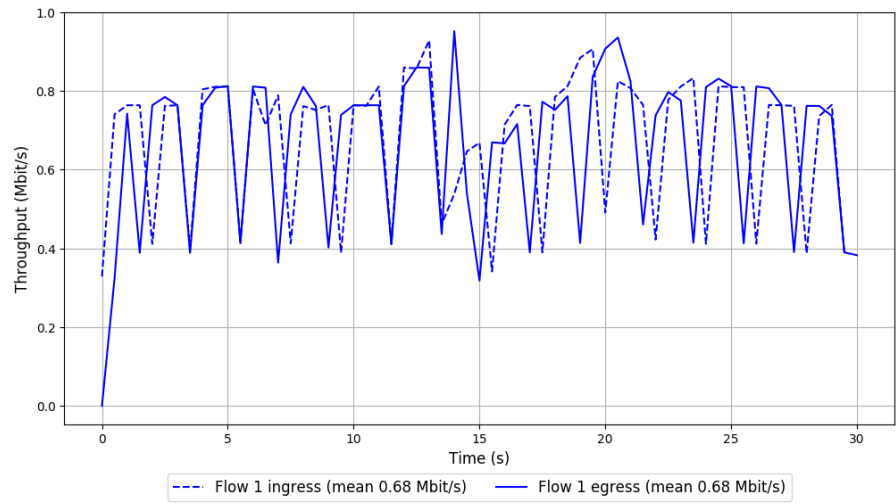


Run 1: Statistics of Sprout

Start at: 2019-10-03 05:41:40
End at: 2019-10-03 05:42:10
Local clock offset: -0.004 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2019-10-03 10:29:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 133.463 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 133.463 ms
Loss rate: 0.94%

Run 1: Report of Sprout — Data Link

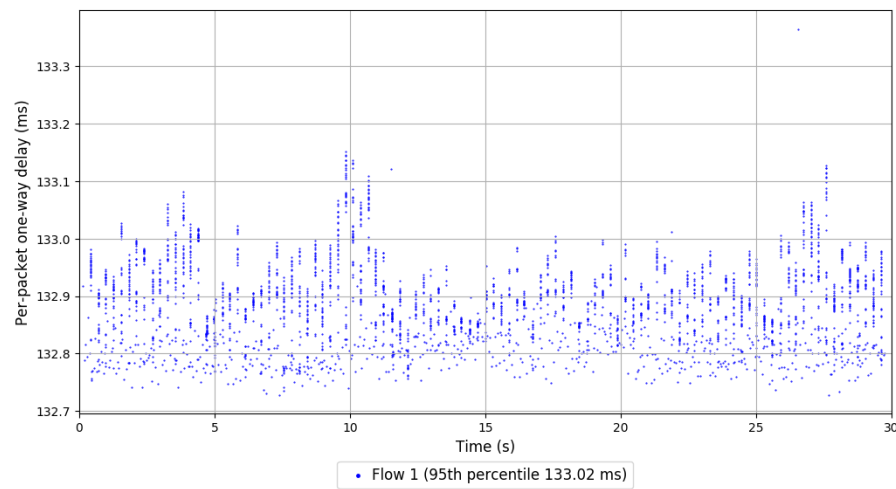
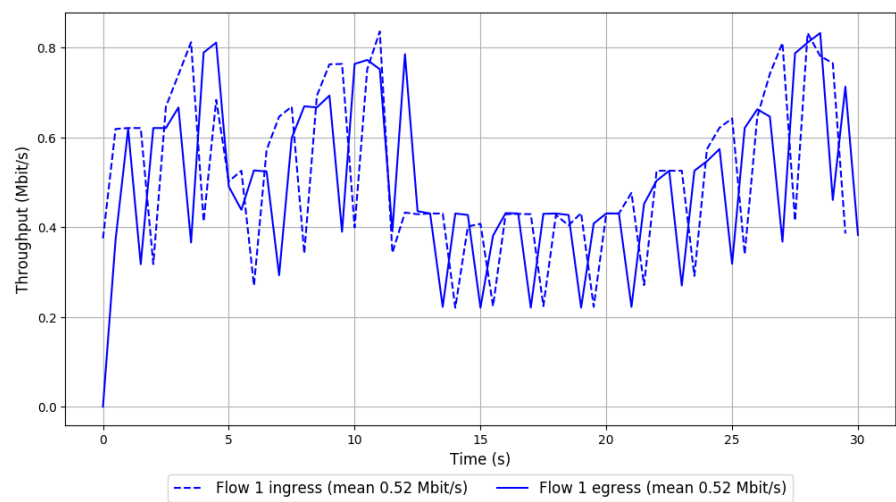


Run 2: Statistics of Sprout

Start at: 2019-10-03 06:17:26
End at: 2019-10-03 06:17:56
Local clock offset: -0.33 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2019-10-03 10:29:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 133.016 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 133.016 ms
Loss rate: 1.23%

Run 2: Report of Sprout — Data Link

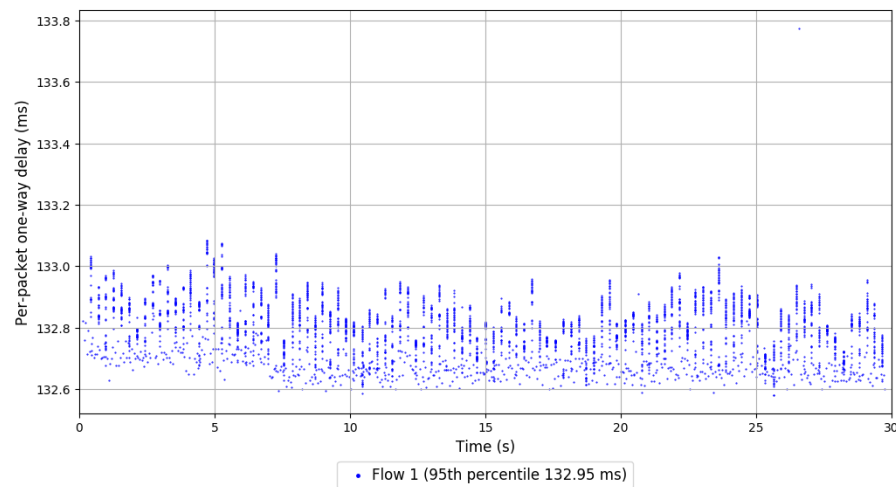
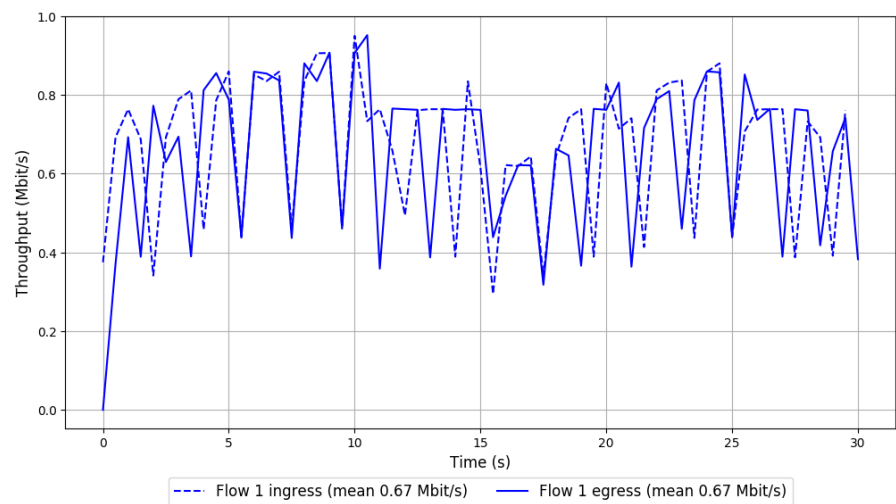


Run 3: Statistics of Sprout

Start at: 2019-10-03 06:53:25
End at: 2019-10-03 06:53:55
Local clock offset: -0.235 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2019-10-03 10:29:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 132.947 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 132.947 ms
Loss rate: 0.95%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-10-03 07:29:16

End at: 2019-10-03 07:29:46

Local clock offset: 0.184 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2019-10-03 10:29:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 133.057 ms

Loss rate: 0.84%

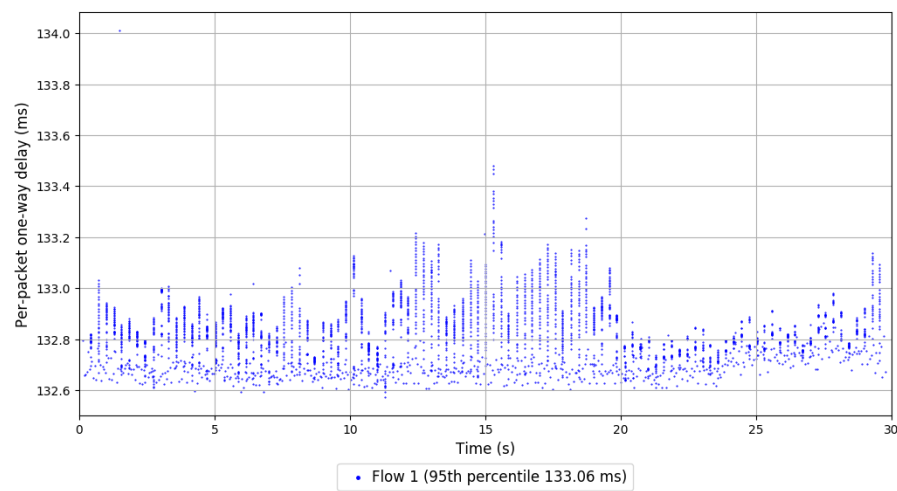
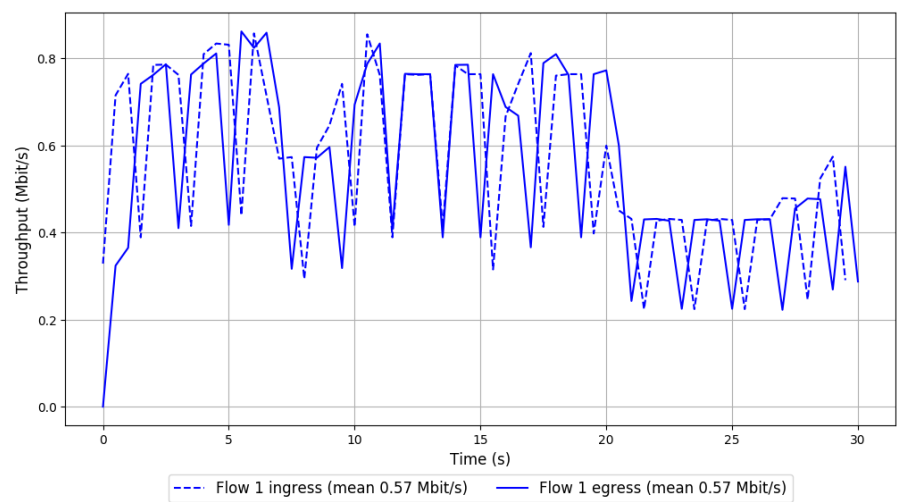
-- Flow 1:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 133.057 ms

Loss rate: 0.84%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-10-03 08:04:54

End at: 2019-10-03 08:05:24

Local clock offset: 0.459 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2019-10-03 10:29:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 133.165 ms

Loss rate: 0.94%

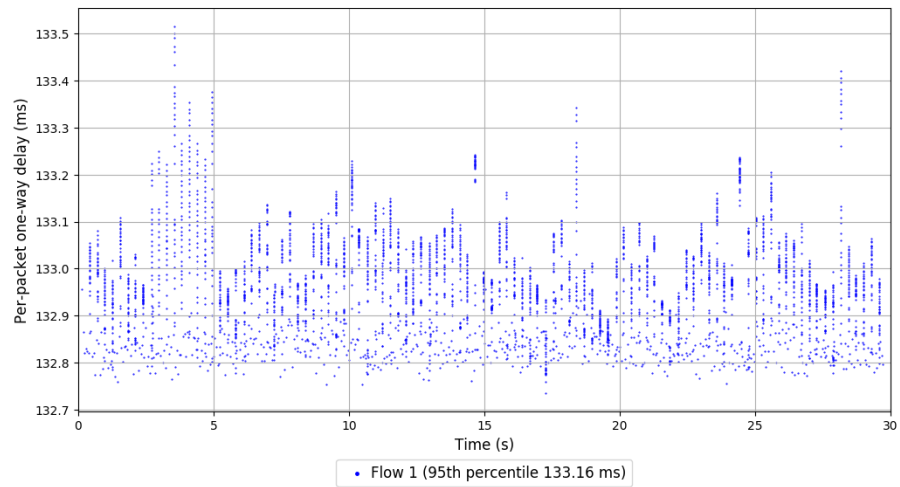
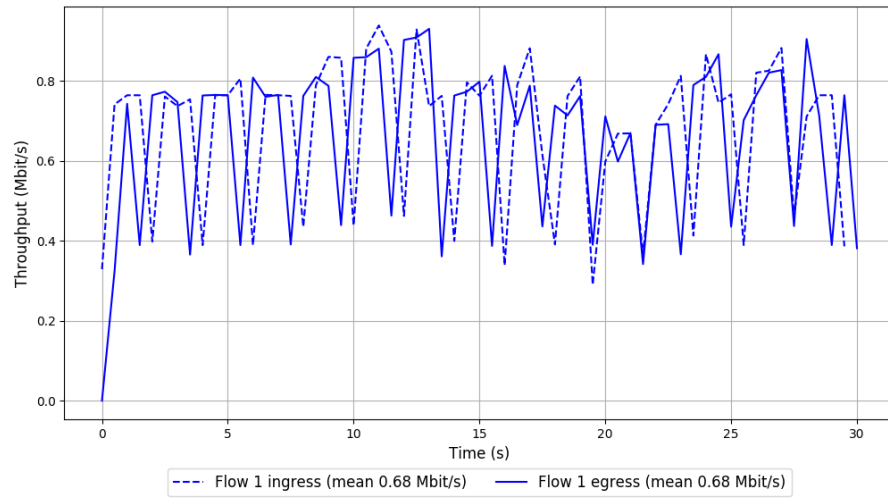
-- Flow 1:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 133.165 ms

Loss rate: 0.94%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-10-03 06:04:37

End at: 2019-10-03 06:05:07

Local clock offset: 0.024 ms

Remote clock offset: -0.003 ms

Below is generated by plot.py at 2019-10-03 10:33:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.24 Mbit/s

95th percentile per-packet one-way delay: 133.494 ms

Loss rate: 0.90%

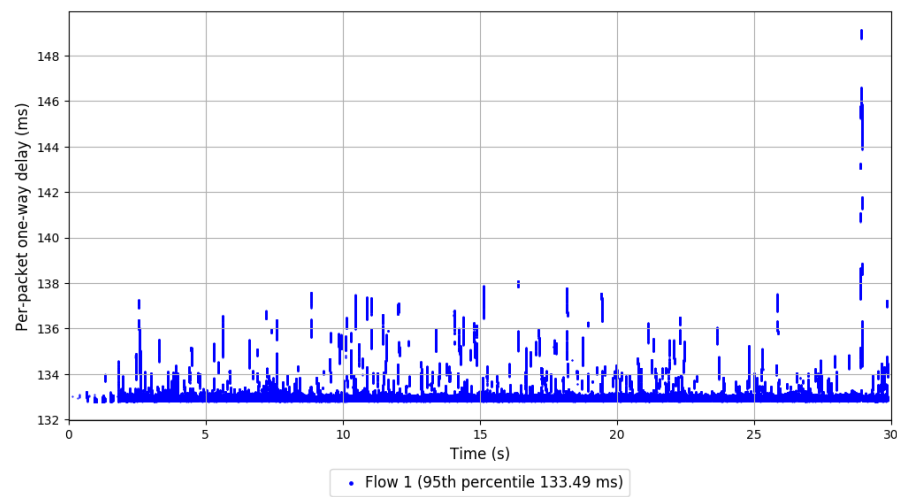
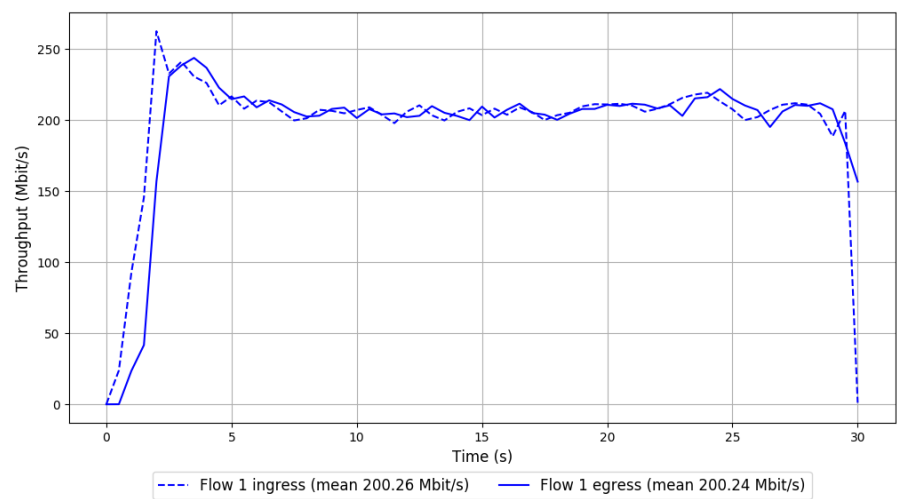
-- Flow 1:

Average throughput: 200.24 Mbit/s

95th percentile per-packet one-way delay: 133.494 ms

Loss rate: 0.90%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-10-03 06:40:43

End at: 2019-10-03 06:41:13

Local clock offset: -0.019 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2019-10-03 10:33:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.13 Mbit/s

95th percentile per-packet one-way delay: 132.991 ms

Loss rate: 0.95%

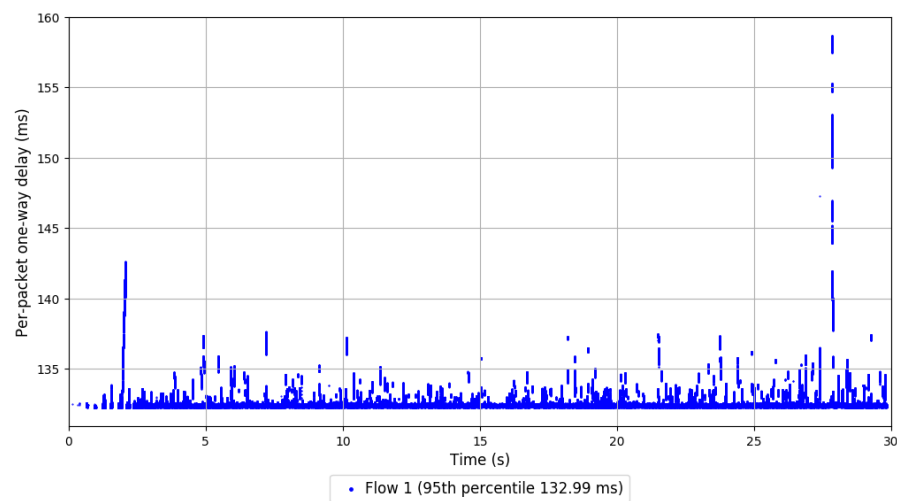
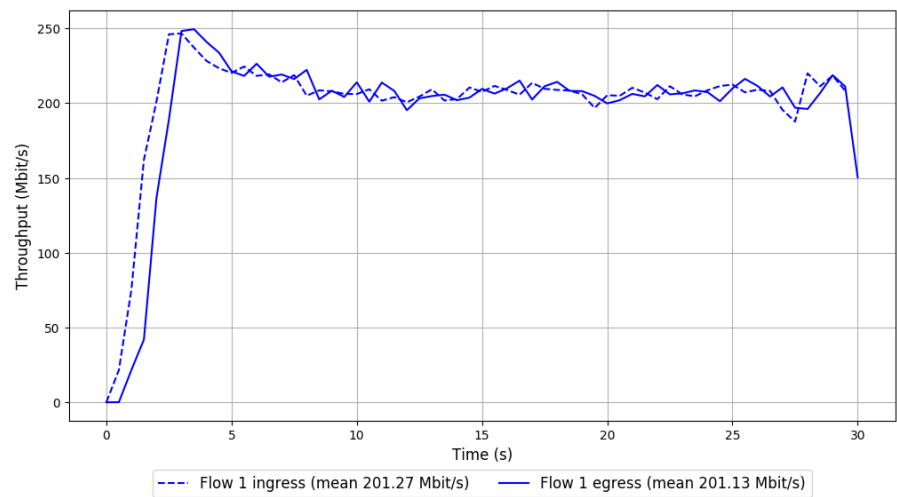
-- Flow 1:

Average throughput: 201.13 Mbit/s

95th percentile per-packet one-way delay: 132.991 ms

Loss rate: 0.95%

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

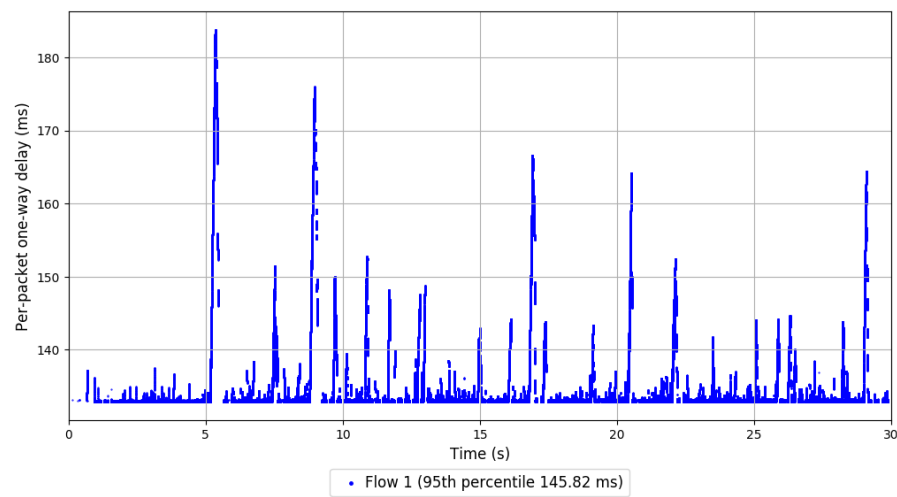
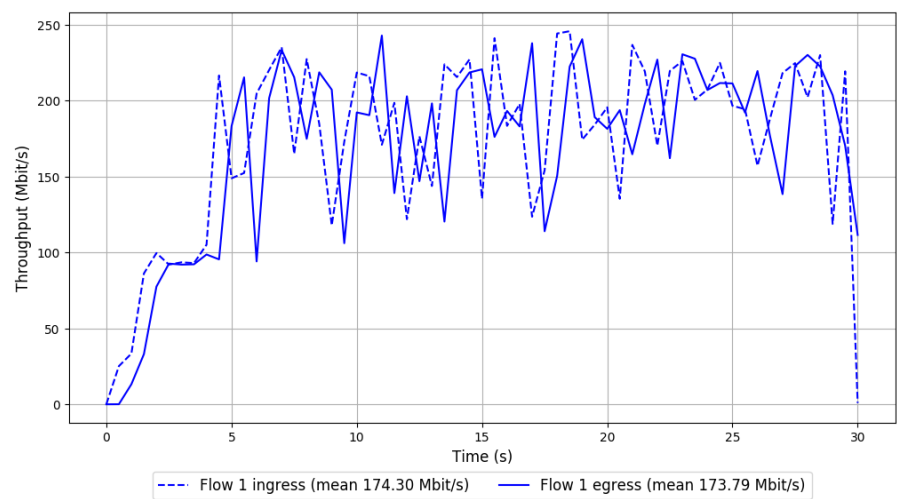


Run 3: Statistics of TaoVA-100x

Start at: 2019-10-03 07:16:31
End at: 2019-10-03 07:17:01
Local clock offset: 0.119 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2019-10-03 10:33:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 173.79 Mbit/s
95th percentile per-packet one-way delay: 145.818 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 173.79 Mbit/s
95th percentile per-packet one-way delay: 145.818 ms
Loss rate: 1.18%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-10-03 07:52:16

End at: 2019-10-03 07:52:46

Local clock offset: 0.465 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2019-10-03 10:33:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.18 Mbit/s

95th percentile per-packet one-way delay: 148.870 ms

Loss rate: 0.88%

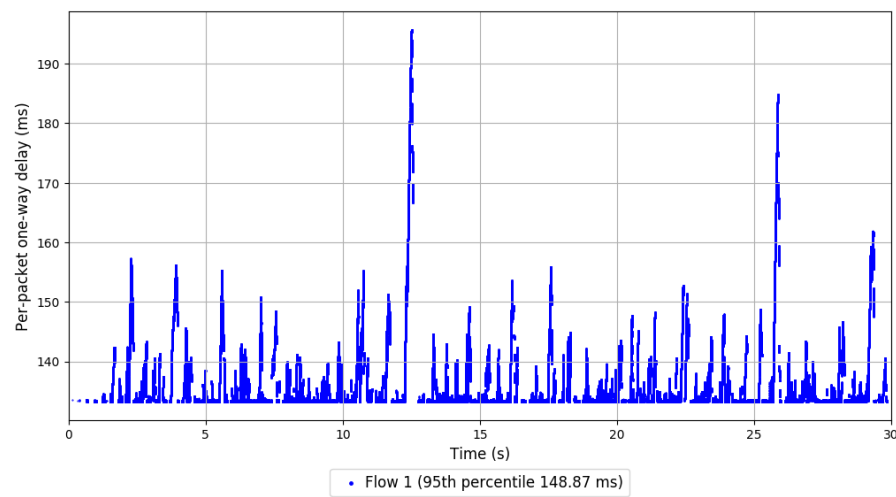
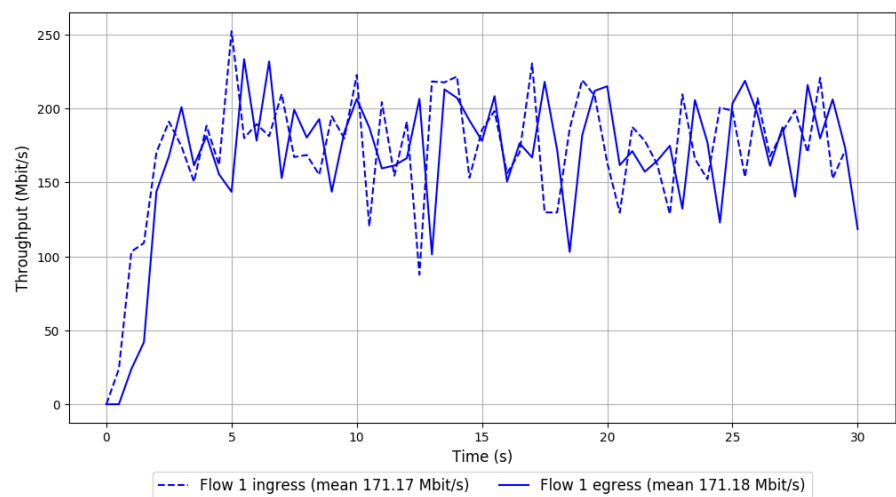
-- Flow 1:

Average throughput: 171.18 Mbit/s

95th percentile per-packet one-way delay: 148.870 ms

Loss rate: 0.88%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-10-03 08:27:48

End at: 2019-10-03 08:28:18

Local clock offset: 0.354 ms

Remote clock offset: 0.041 ms

Below is generated by plot.py at 2019-10-03 10:33:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 142.12 Mbit/s

95th percentile per-packet one-way delay: 152.946 ms

Loss rate: 1.18%

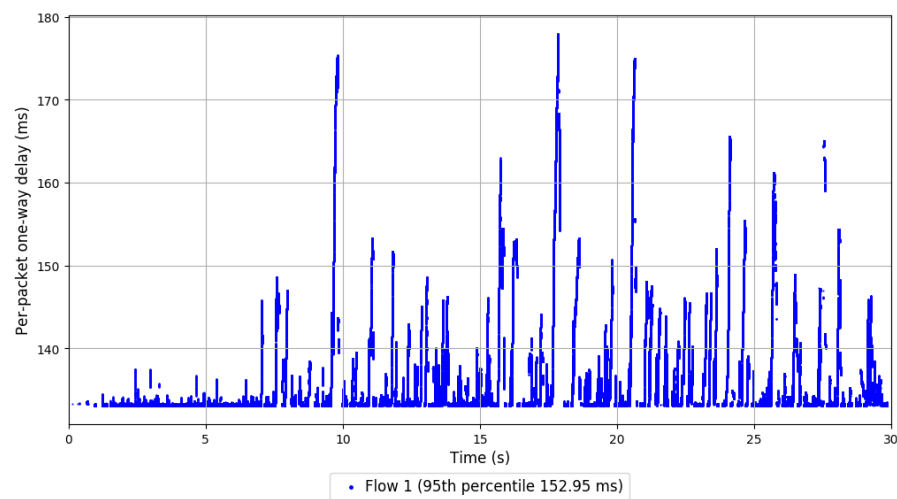
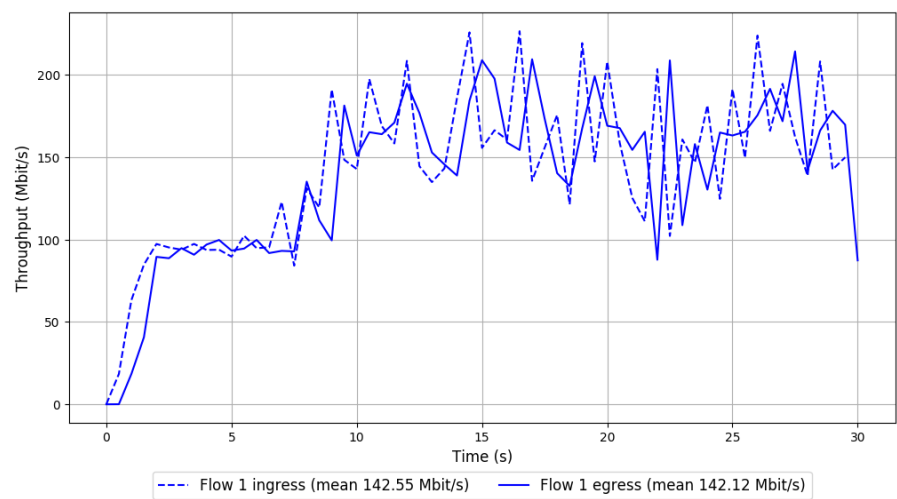
-- Flow 1:

Average throughput: 142.12 Mbit/s

95th percentile per-packet one-way delay: 152.946 ms

Loss rate: 1.18%

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

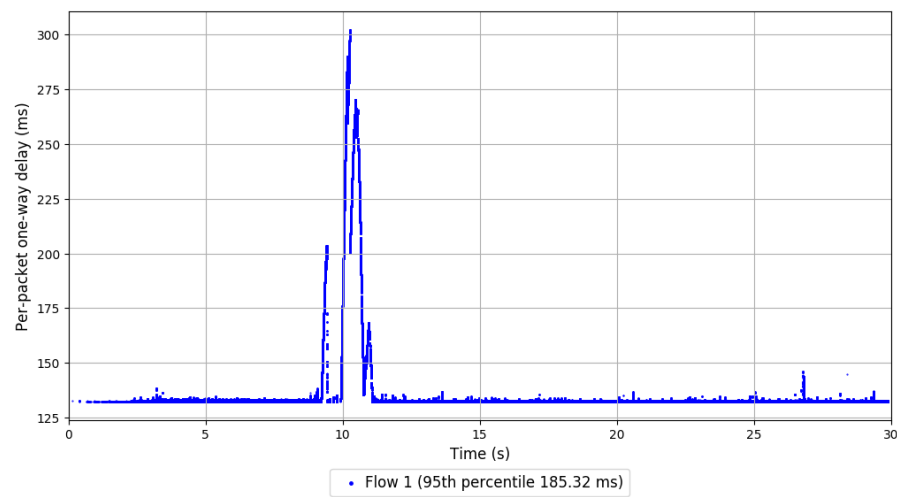
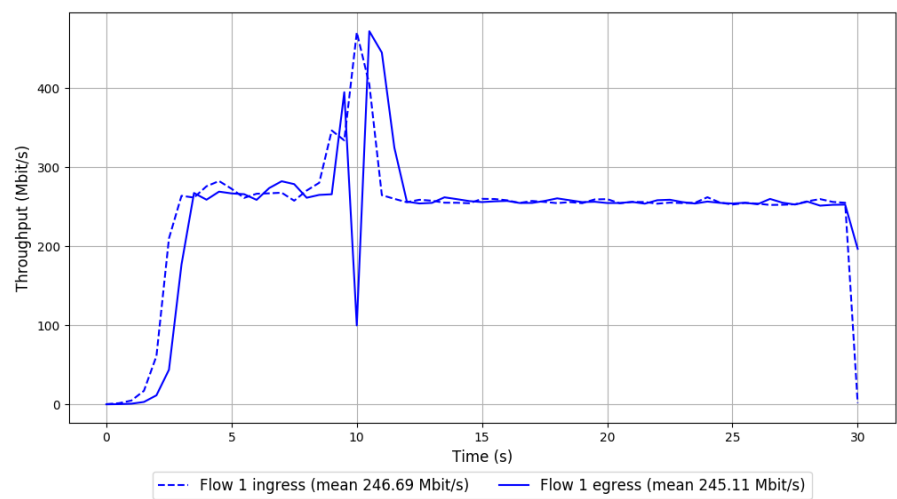


Run 1: Statistics of TCP Vegas

Start at: 2019-10-03 05:37:19
End at: 2019-10-03 05:37:49
Local clock offset: -0.4 ms
Remote clock offset: -0.043 ms

Below is generated by plot.py at 2019-10-03 10:33:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 245.11 Mbit/s
95th percentile per-packet one-way delay: 185.319 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 245.11 Mbit/s
95th percentile per-packet one-way delay: 185.319 ms
Loss rate: 1.52%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-10-03 06:12:59

End at: 2019-10-03 06:13:29

Local clock offset: 0.229 ms

Remote clock offset: 0.007 ms

Below is generated by plot.py at 2019-10-03 10:35:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 313.46 Mbit/s

95th percentile per-packet one-way delay: 160.275 ms

Loss rate: 1.28%

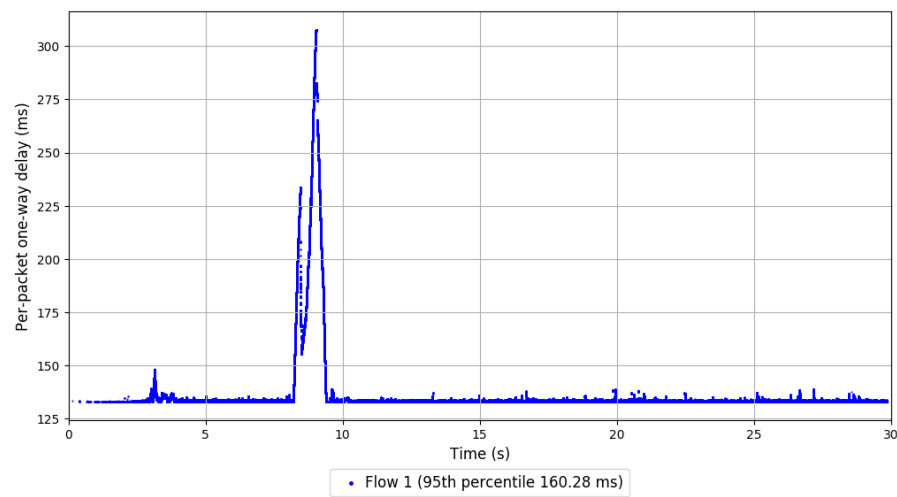
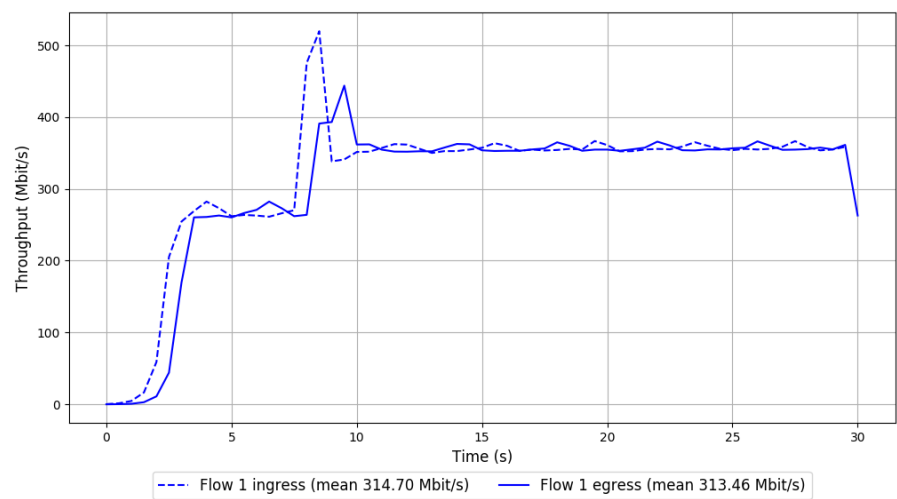
-- Flow 1:

Average throughput: 313.46 Mbit/s

95th percentile per-packet one-way delay: 160.275 ms

Loss rate: 1.28%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-10-03 06:49:04

End at: 2019-10-03 06:49:34

Local clock offset: 0.159 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2019-10-03 10:35:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.34 Mbit/s

95th percentile per-packet one-way delay: 253.226 ms

Loss rate: 3.09%

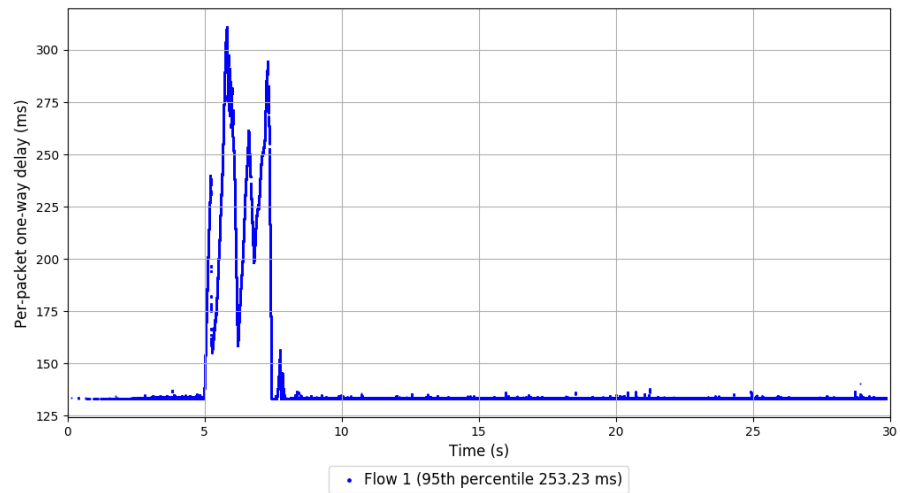
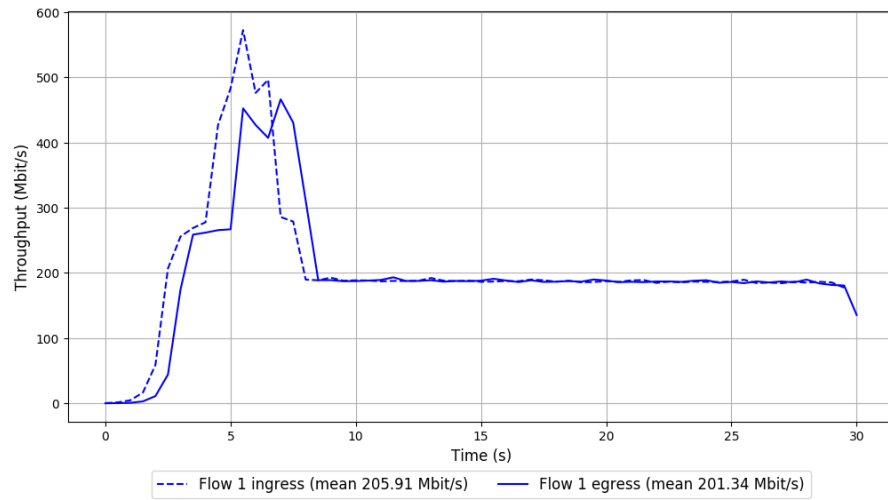
-- Flow 1:

Average throughput: 201.34 Mbit/s

95th percentile per-packet one-way delay: 253.226 ms

Loss rate: 3.09%

Run 3: Report of TCP Vegas — Data Link

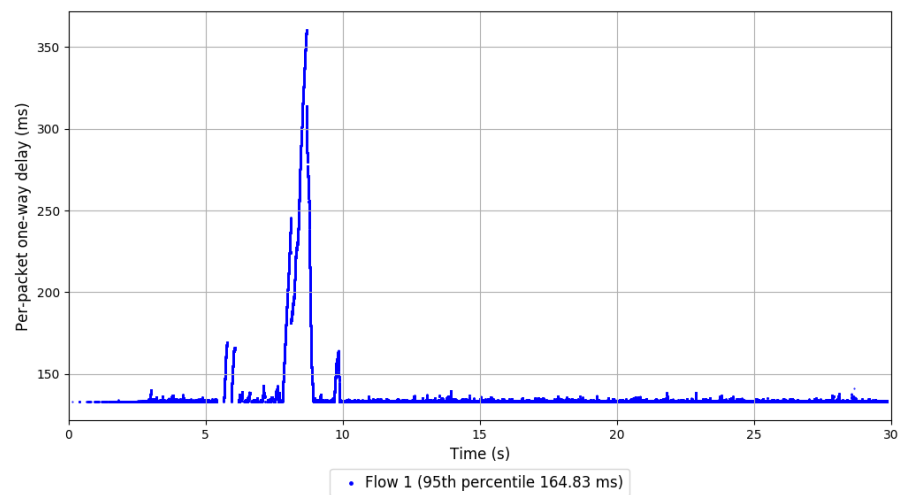
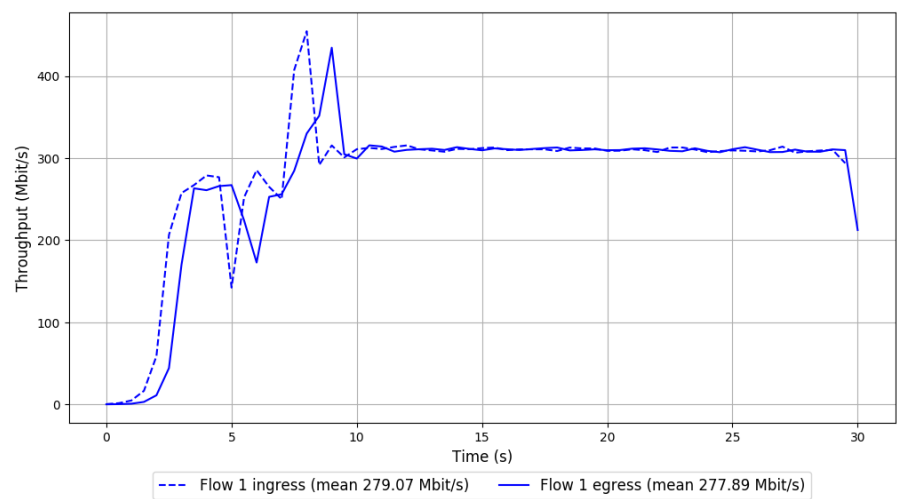


Run 4: Statistics of TCP Vegas

Start at: 2019-10-03 07:24:53
End at: 2019-10-03 07:25:23
Local clock offset: -0.01 ms
Remote clock offset: -0.043 ms

Below is generated by plot.py at 2019-10-03 10:38:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 277.89 Mbit/s
95th percentile per-packet one-way delay: 164.832 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 277.89 Mbit/s
95th percentile per-packet one-way delay: 164.832 ms
Loss rate: 1.31%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-10-03 08:00:31

End at: 2019-10-03 08:01:01

Local clock offset: 0.424 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2019-10-03 10:39:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 324.13 Mbit/s

95th percentile per-packet one-way delay: 148.314 ms

Loss rate: 1.05%

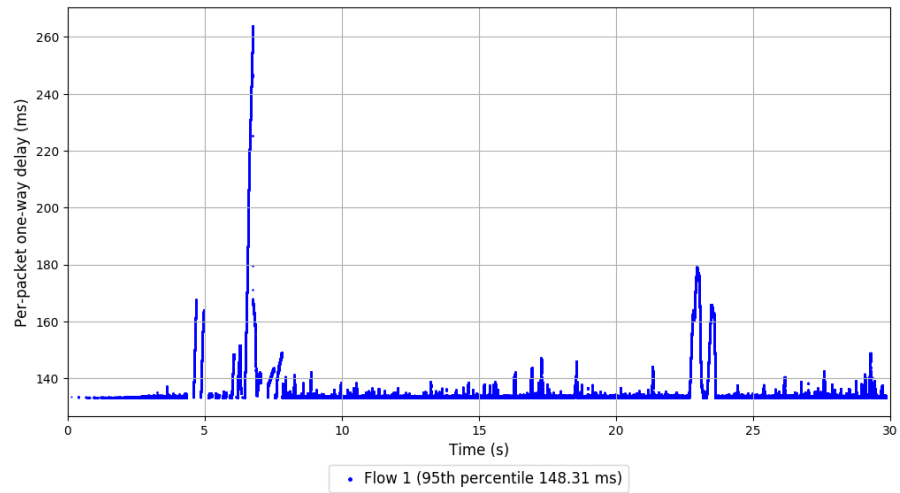
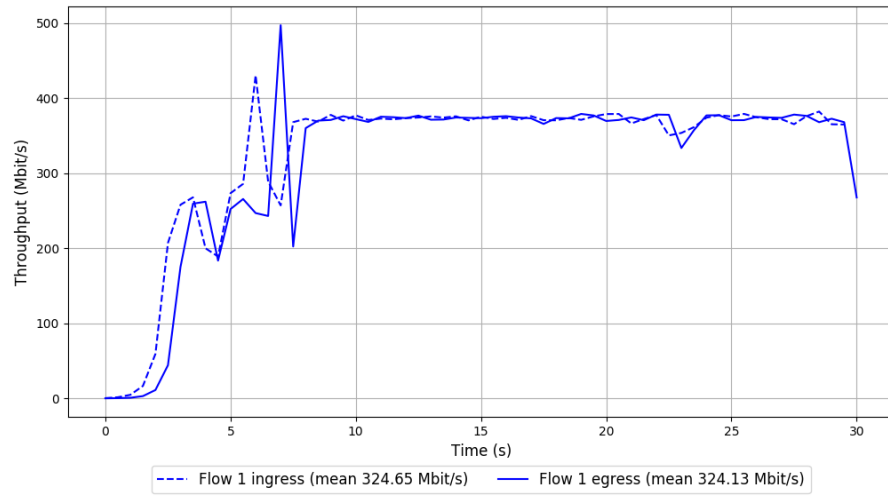
-- Flow 1:

Average throughput: 324.13 Mbit/s

95th percentile per-packet one-way delay: 148.314 ms

Loss rate: 1.05%

Run 5: Report of TCP Vegas — Data Link

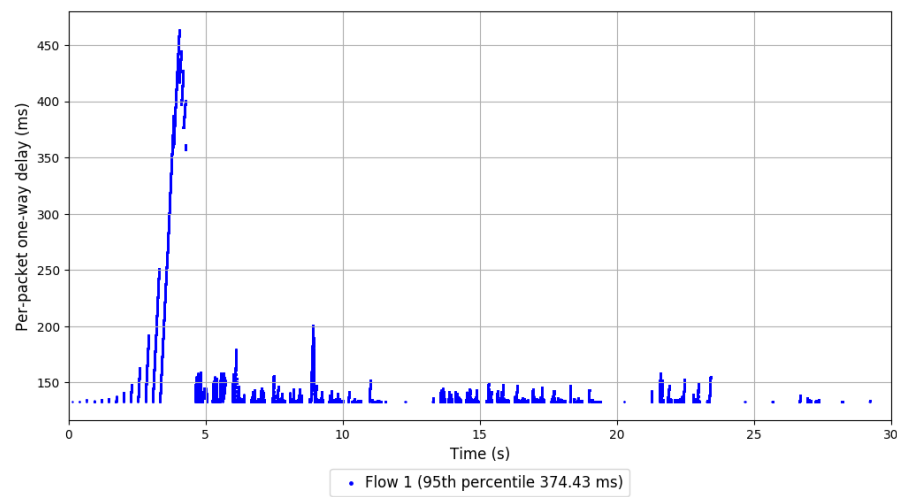
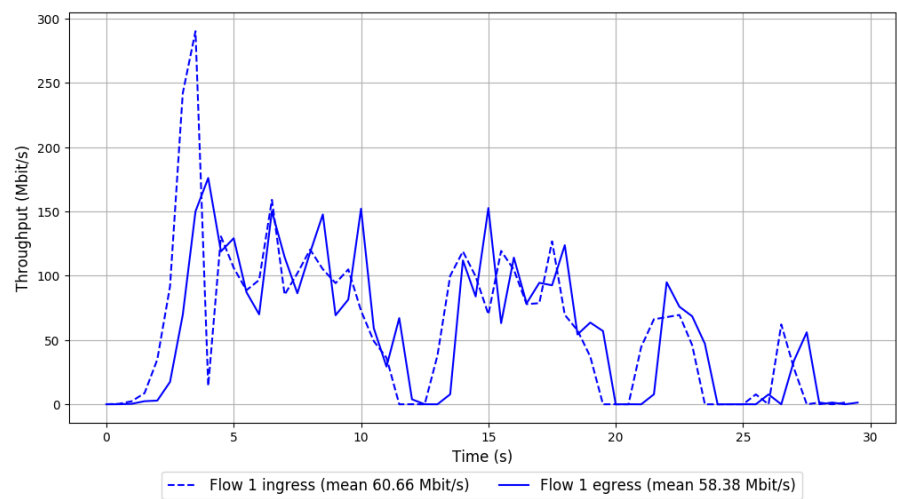


Run 1: Statistics of Verus

Start at: 2019-10-03 05:55:25
End at: 2019-10-03 05:55:55
Local clock offset: 0.015 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2019-10-03 10:39:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 58.38 Mbit/s
95th percentile per-packet one-way delay: 374.426 ms
Loss rate: 3.75%
-- Flow 1:
Average throughput: 58.38 Mbit/s
95th percentile per-packet one-way delay: 374.426 ms
Loss rate: 3.75%

Run 1: Report of Verus — Data Link

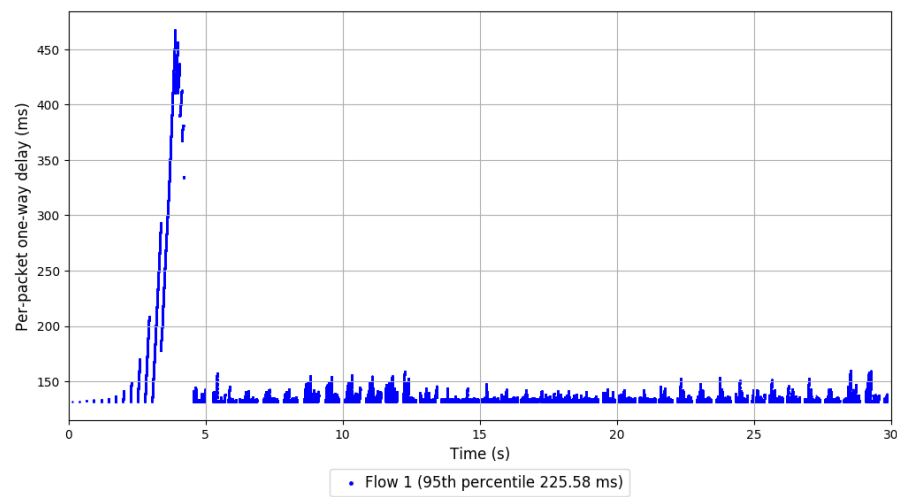
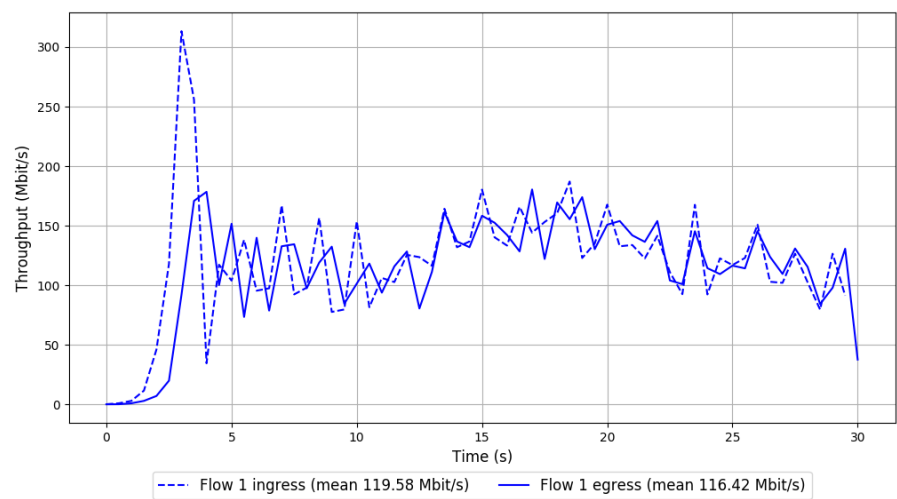


Run 2: Statistics of Verus

Start at: 2019-10-03 06:31:21
End at: 2019-10-03 06:31:51
Local clock offset: -0.246 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2019-10-03 10:39:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 116.42 Mbit/s
95th percentile per-packet one-way delay: 225.579 ms
Loss rate: 3.50%
-- Flow 1:
Average throughput: 116.42 Mbit/s
95th percentile per-packet one-way delay: 225.579 ms
Loss rate: 3.50%

Run 2: Report of Verus — Data Link

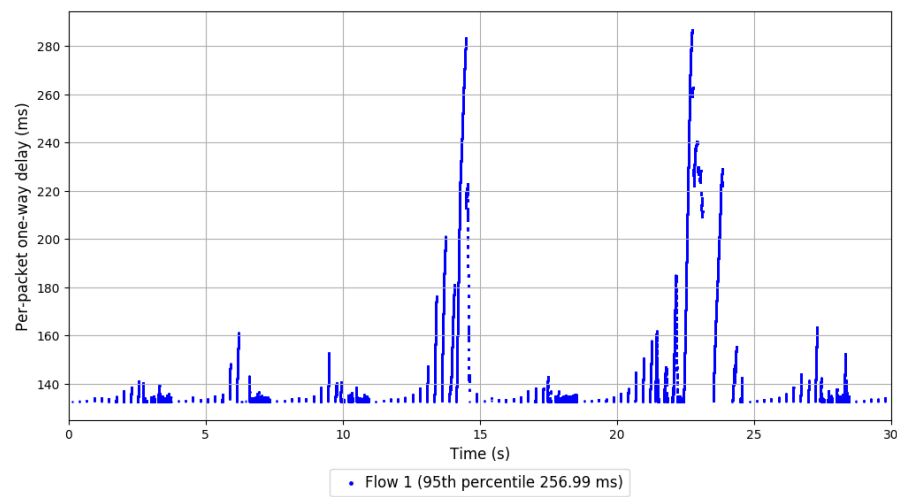
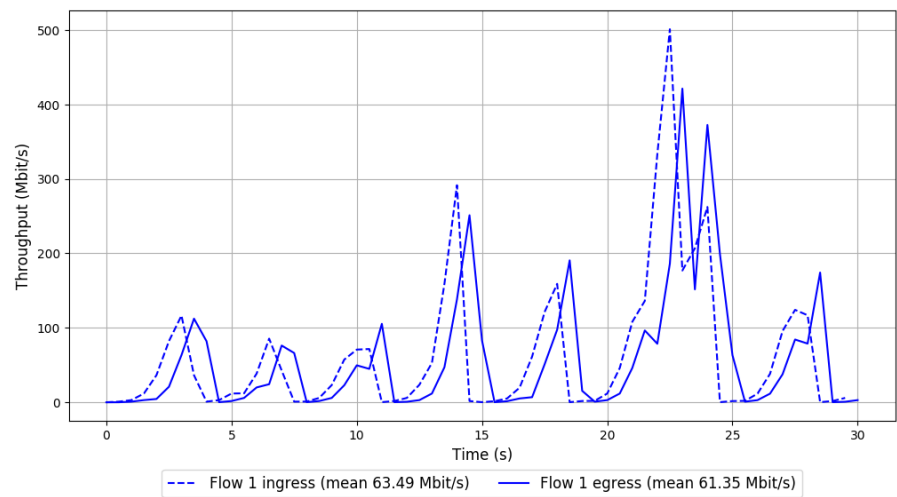


Run 3: Statistics of Verus

Start at: 2019-10-03 07:07:21
End at: 2019-10-03 07:07:51
Local clock offset: -0.462 ms
Remote clock offset: -0.068 ms

Below is generated by plot.py at 2019-10-03 10:39:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 61.35 Mbit/s
95th percentile per-packet one-way delay: 256.990 ms
Loss rate: 4.24%
-- Flow 1:
Average throughput: 61.35 Mbit/s
95th percentile per-packet one-way delay: 256.990 ms
Loss rate: 4.24%

Run 3: Report of Verus — Data Link

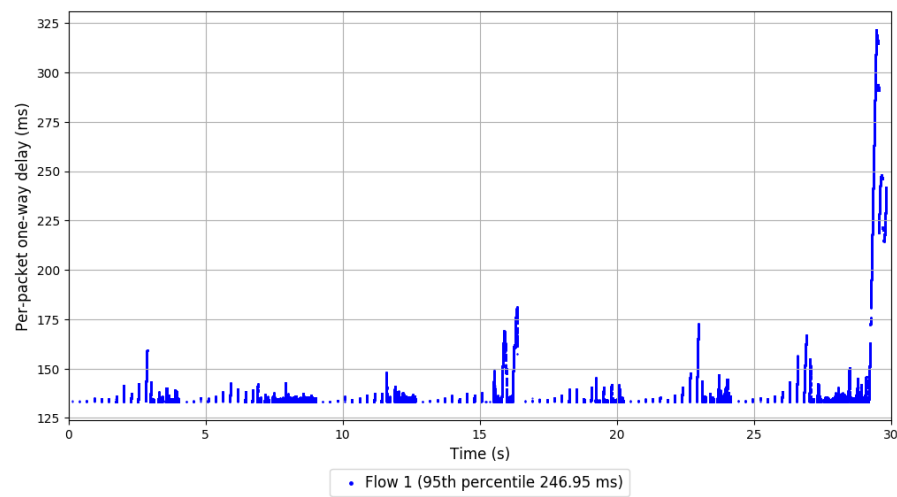
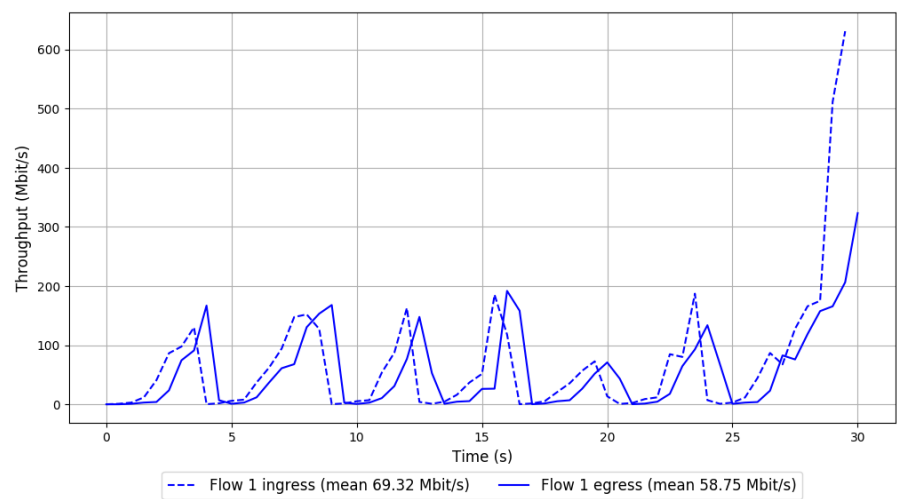


Run 4: Statistics of Verus

Start at: 2019-10-03 07:43:11
End at: 2019-10-03 07:43:41
Local clock offset: 0.221 ms
Remote clock offset: -0.028 ms

Below is generated by plot.py at 2019-10-03 10:39:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 58.75 Mbit/s
95th percentile per-packet one-way delay: 246.947 ms
Loss rate: 15.98%
-- Flow 1:
Average throughput: 58.75 Mbit/s
95th percentile per-packet one-way delay: 246.947 ms
Loss rate: 15.98%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-10-03 08:18:34

End at: 2019-10-03 08:19:04

Local clock offset: 0.246 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2019-10-03 10:39:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.19 Mbit/s

95th percentile per-packet one-way delay: 169.847 ms

Loss rate: 0.27%

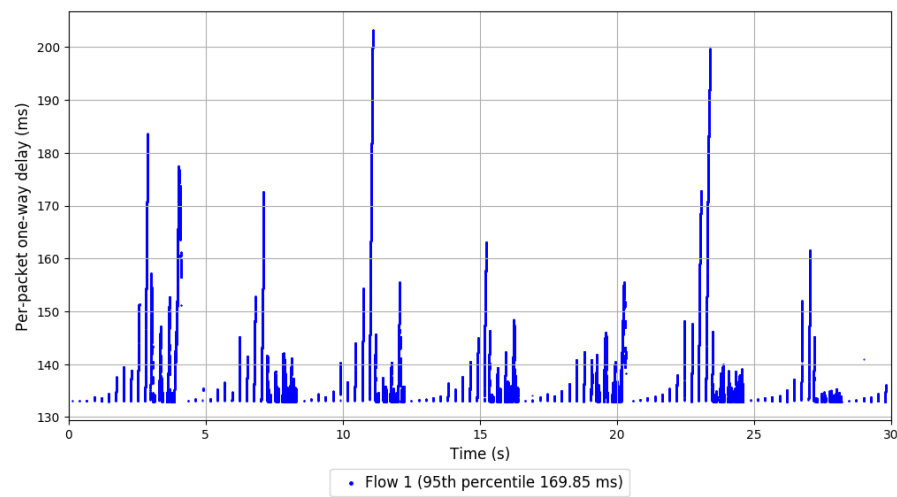
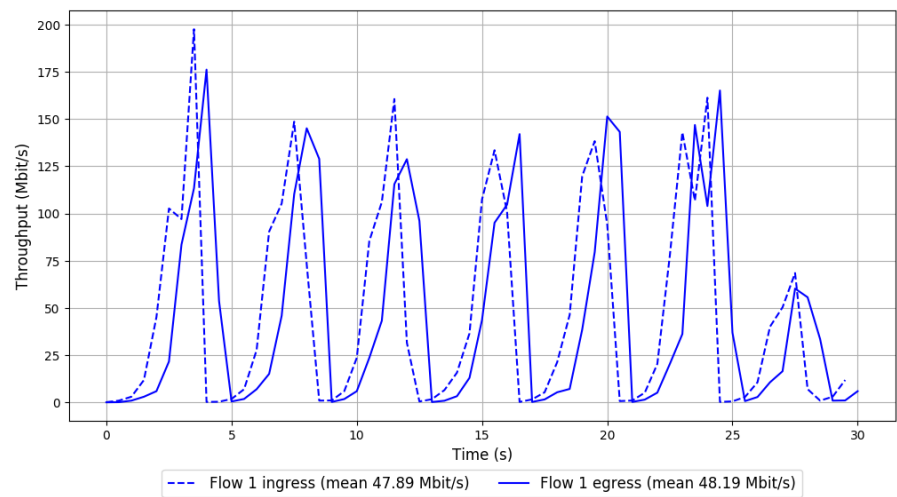
-- Flow 1:

Average throughput: 48.19 Mbit/s

95th percentile per-packet one-way delay: 169.847 ms

Loss rate: 0.27%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-10-03 05:40:10

End at: 2019-10-03 05:40:40

Local clock offset: -0.026 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2019-10-03 10:40:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 248.03 Mbit/s

95th percentile per-packet one-way delay: 134.708 ms

Loss rate: 1.20%

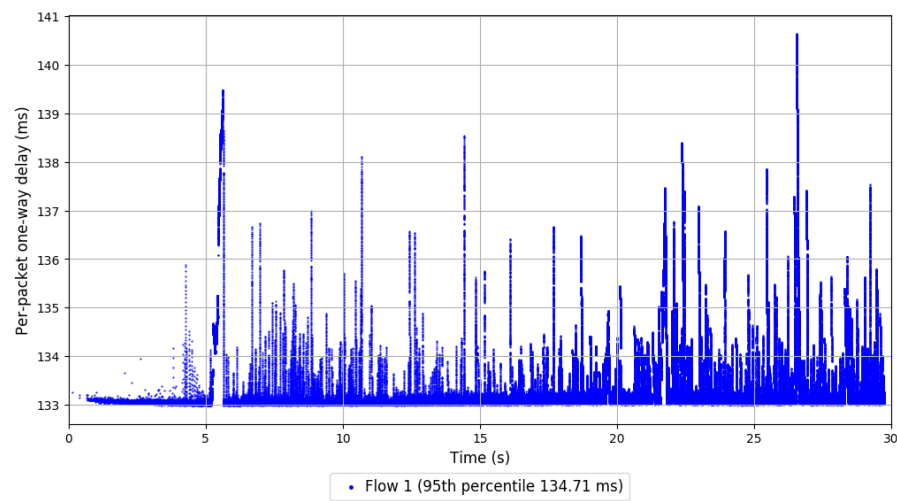
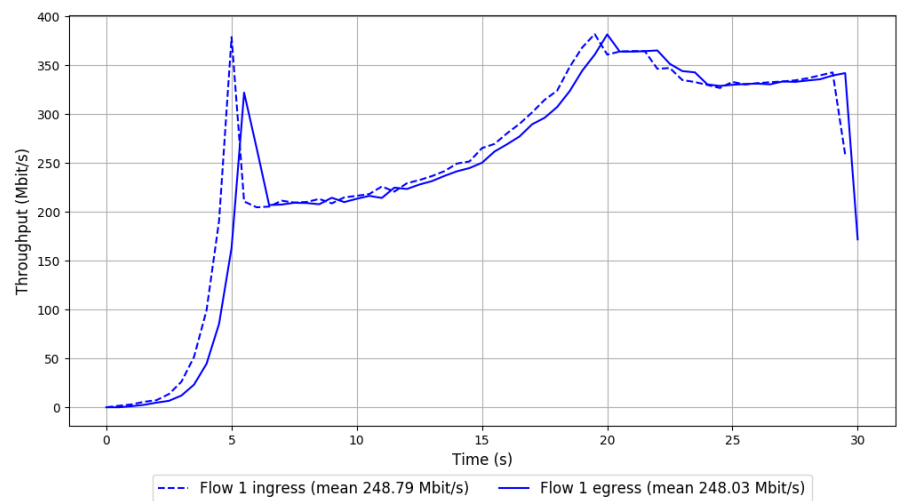
-- Flow 1:

Average throughput: 248.03 Mbit/s

95th percentile per-packet one-way delay: 134.708 ms

Loss rate: 1.20%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-10-03 06:15:54

End at: 2019-10-03 06:16:24

Local clock offset: 0.022 ms

Remote clock offset: 0.357 ms

Below is generated by plot.py at 2019-10-03 10:40:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 268.10 Mbit/s

95th percentile per-packet one-way delay: 143.175 ms

Loss rate: 1.57%

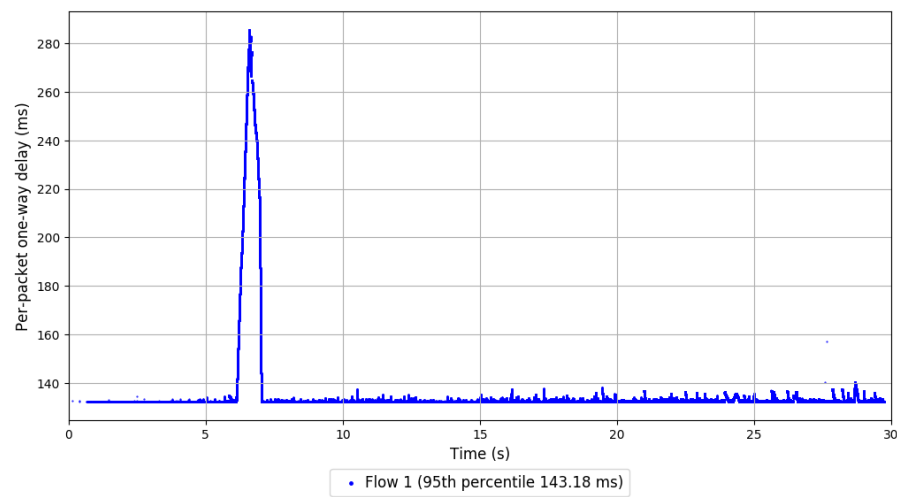
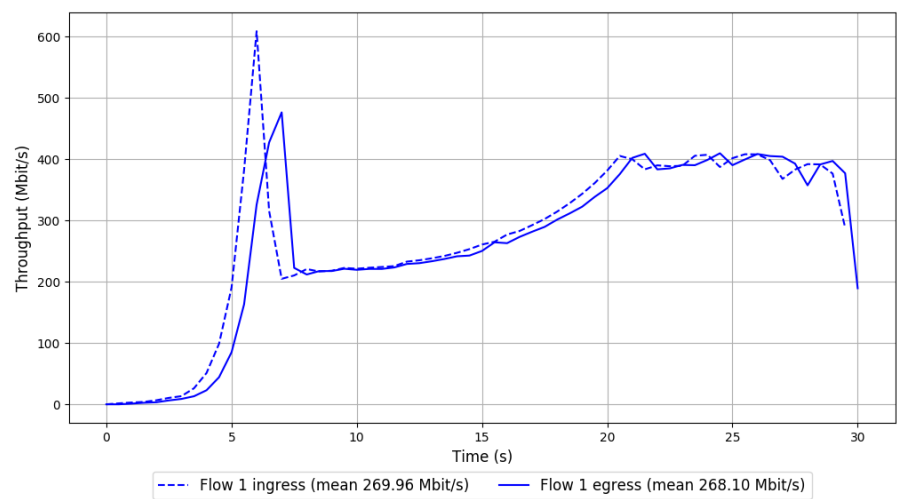
-- Flow 1:

Average throughput: 268.10 Mbit/s

95th percentile per-packet one-way delay: 143.175 ms

Loss rate: 1.57%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-10-03 06:51:57

End at: 2019-10-03 06:52:27

Local clock offset: -0.307 ms

Remote clock offset: 0.335 ms

Below is generated by plot.py at 2019-10-03 10:40:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.20 Mbit/s

95th percentile per-packet one-way delay: 286.121 ms

Loss rate: 1.17%

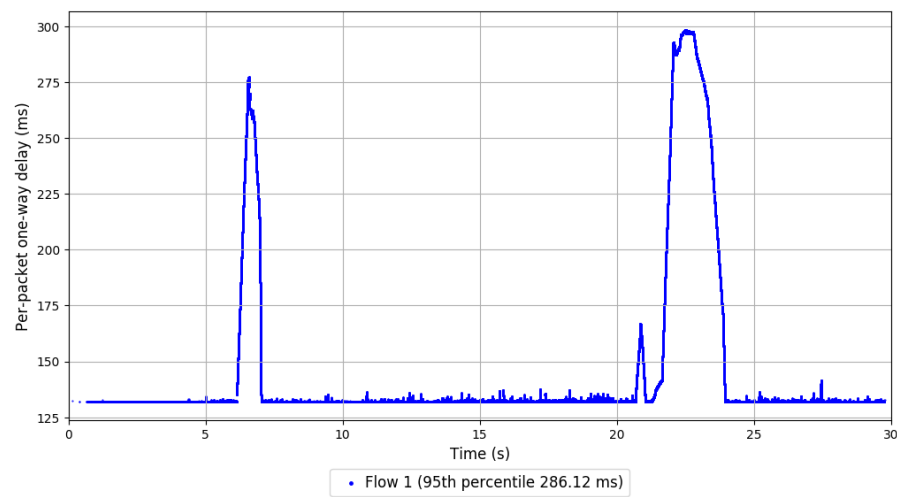
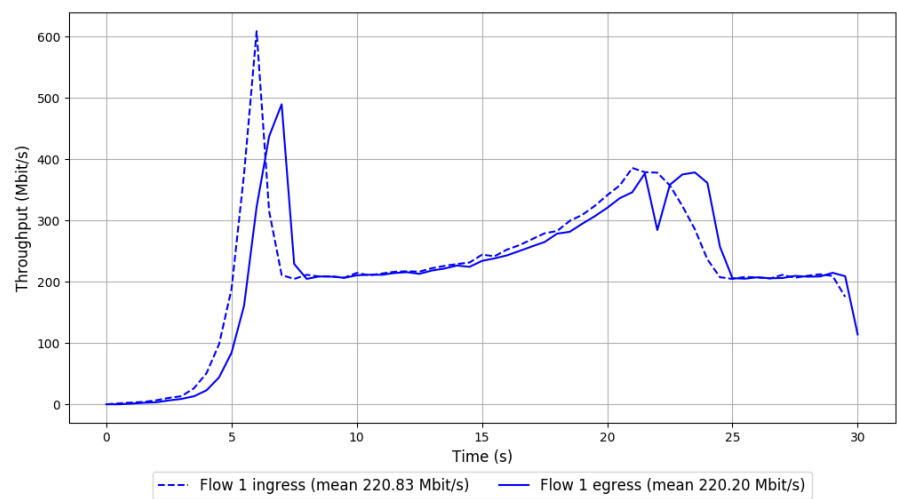
-- Flow 1:

Average throughput: 220.20 Mbit/s

95th percentile per-packet one-way delay: 286.121 ms

Loss rate: 1.17%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-10-03 07:27:46

End at: 2019-10-03 07:28:16

Local clock offset: -0.444 ms

Remote clock offset: -0.019 ms

Below is generated by plot.py at 2019-10-03 10:40:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.30 Mbit/s

95th percentile per-packet one-way delay: 240.213 ms

Loss rate: 0.72%

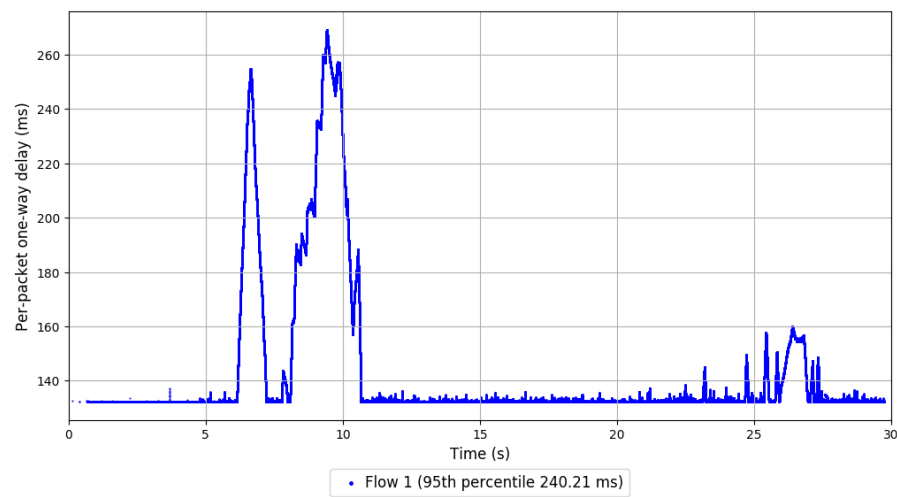
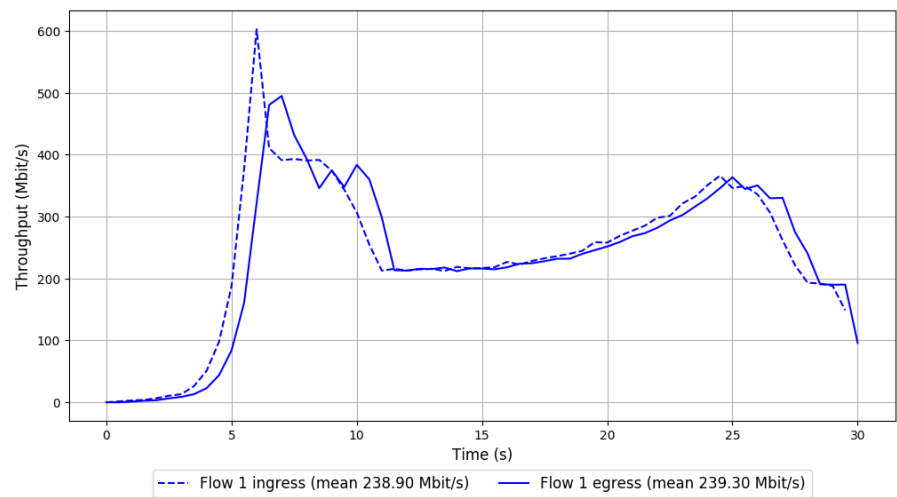
-- Flow 1:

Average throughput: 239.30 Mbit/s

95th percentile per-packet one-way delay: 240.213 ms

Loss rate: 0.72%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-10-03 08:03:26

End at: 2019-10-03 08:03:56

Local clock offset: 0.131 ms

Remote clock offset: 0.013 ms

Below is generated by plot.py at 2019-10-03 10:40:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.99 Mbit/s

95th percentile per-packet one-way delay: 133.988 ms

Loss rate: 1.14%

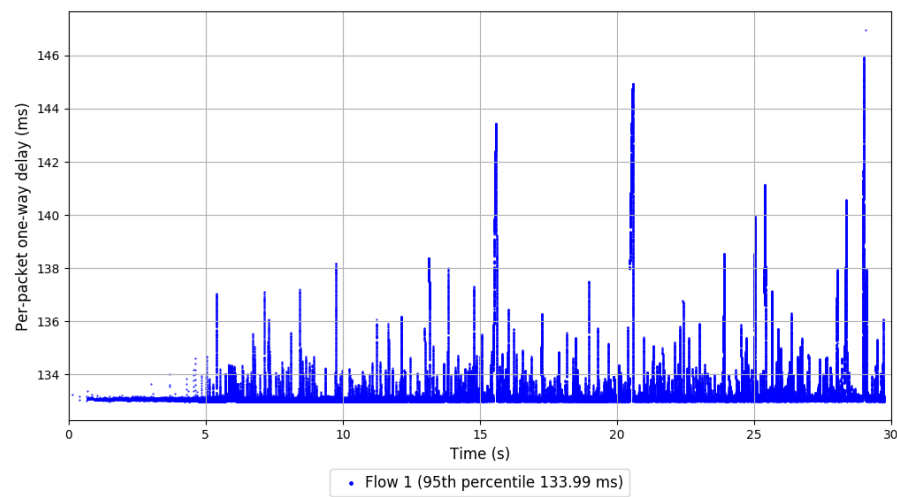
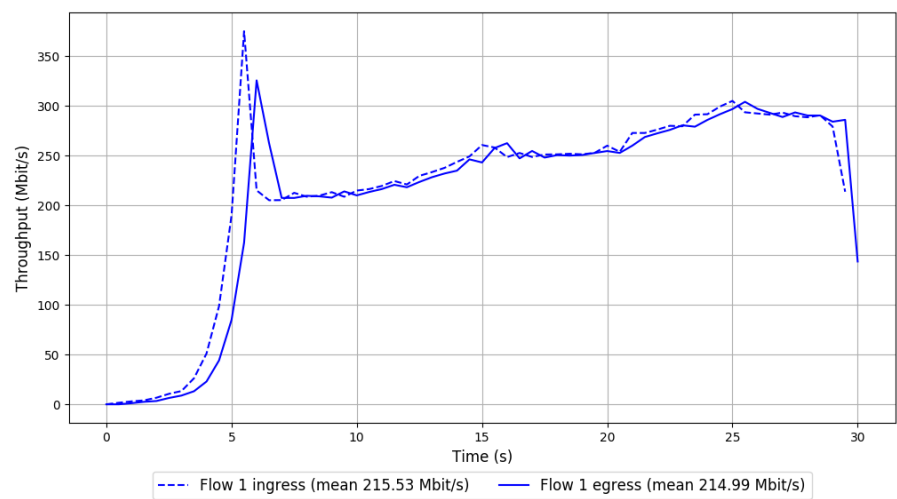
-- Flow 1:

Average throughput: 214.99 Mbit/s

95th percentile per-packet one-way delay: 133.988 ms

Loss rate: 1.14%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

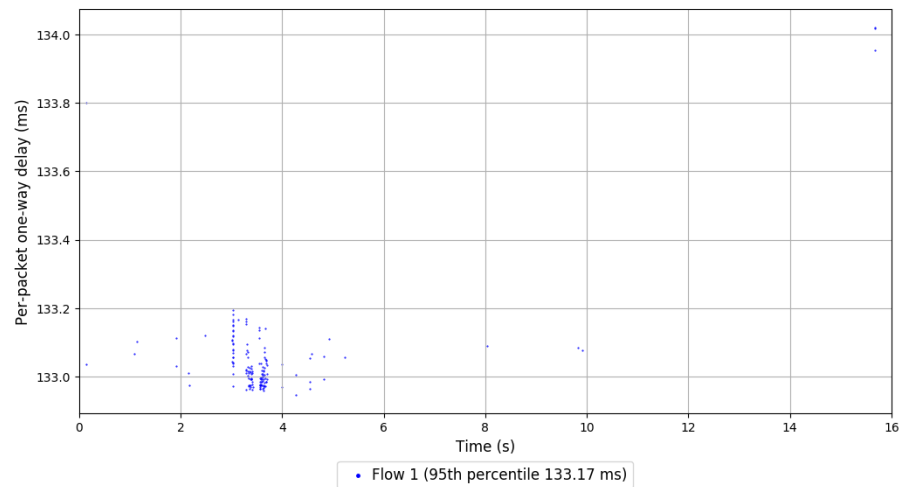
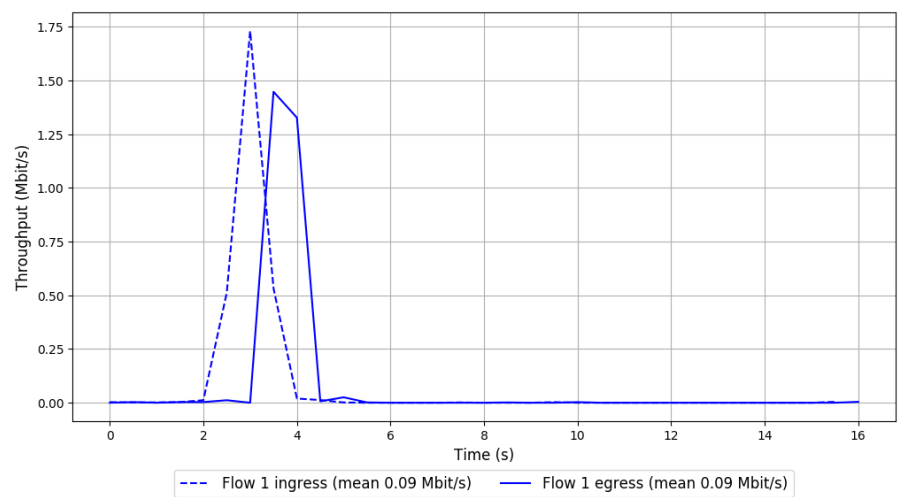
Start at: 2019-10-03 05:47:48

End at: 2019-10-03 05:48:18

Local clock offset: 0.036 ms

Remote clock offset: -0.043 ms

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-10-03 06:23:38

End at: 2019-10-03 06:24:08

Local clock offset: 0.001 ms

Remote clock offset: -0.006 ms

Below is generated by plot.py at 2019-10-03 10:40:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 132.576 ms

Loss rate: 0.00%

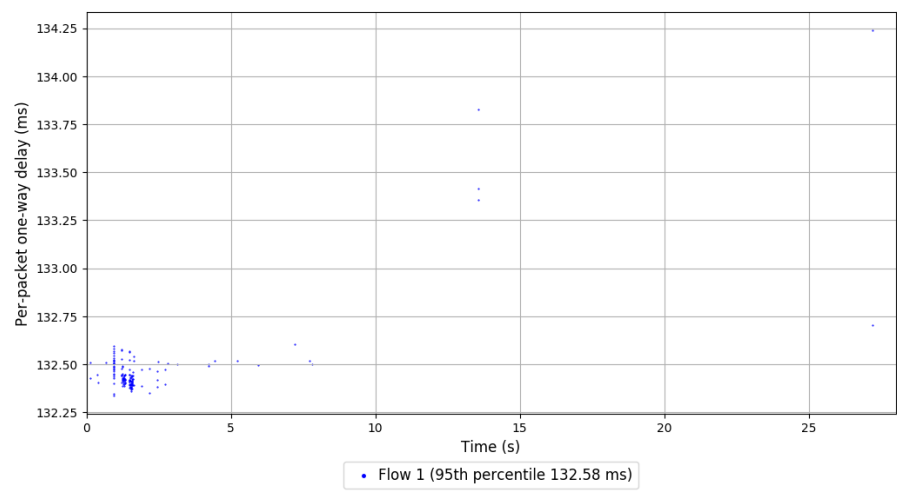
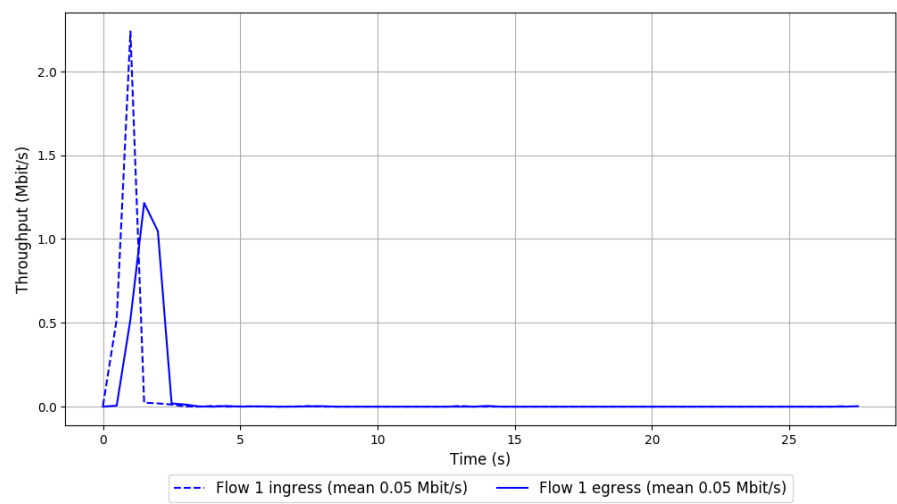
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 132.576 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

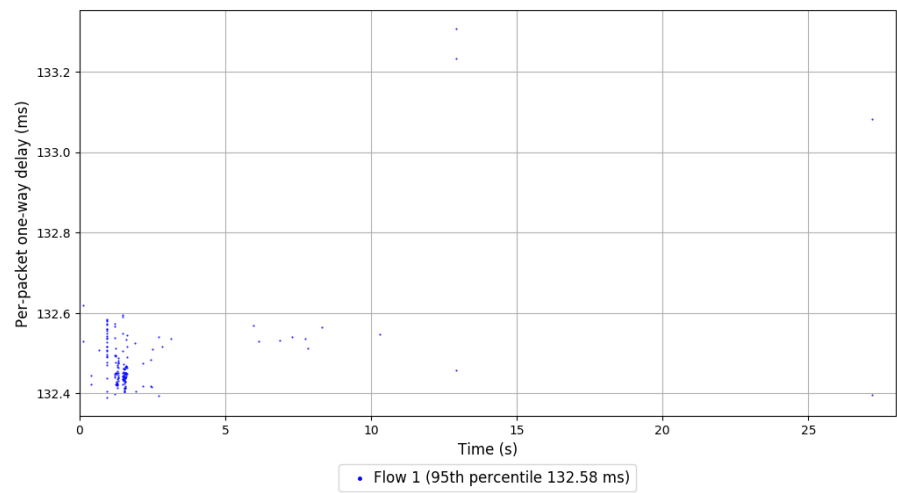
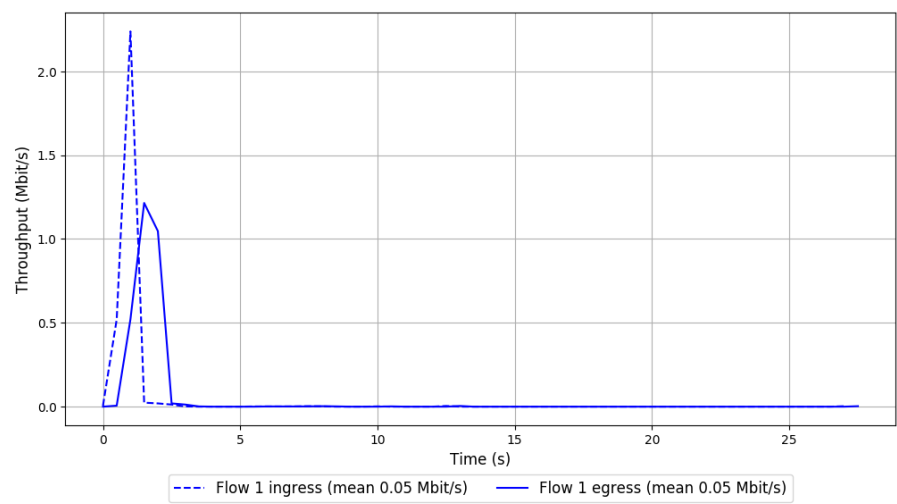


Run 3: Statistics of WebRTC media

Start at: 2019-10-03 06:59:30
End at: 2019-10-03 07:00:00
Local clock offset: -0.457 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2019-10-03 10:40:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.579 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.579 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

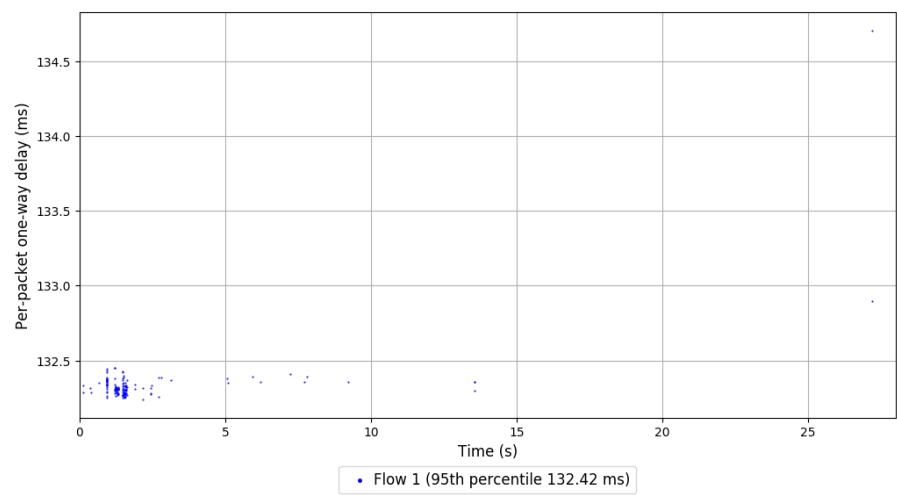
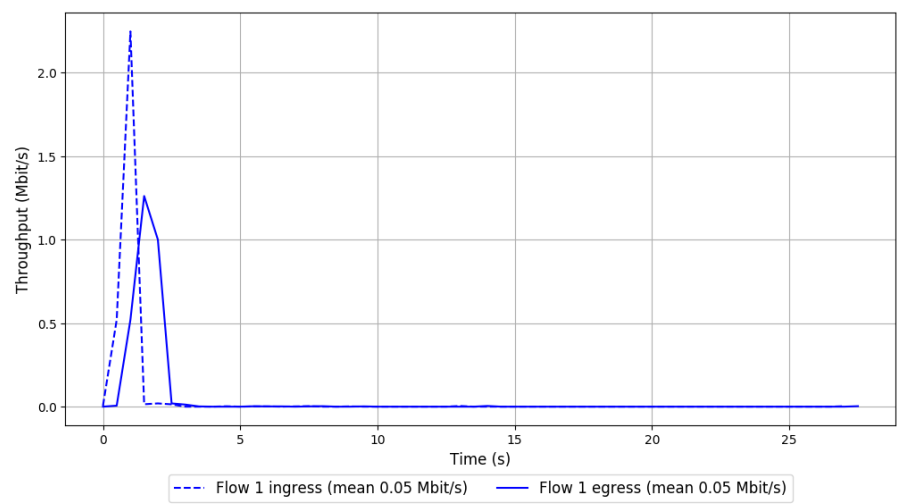


Run 4: Statistics of WebRTC media

Start at: 2019-10-03 07:35:27
End at: 2019-10-03 07:35:57
Local clock offset: 0.136 ms
Remote clock offset: -0.046 ms

Below is generated by plot.py at 2019-10-03 10:40:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.420 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.420 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-10-03 08:10:55

End at: 2019-10-03 08:11:25

Local clock offset: 0.266 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2019-10-03 10:40:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 132.472 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 132.472 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

