

Pantheon Report

Generated at 2019-08-27 08:33:18 (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:

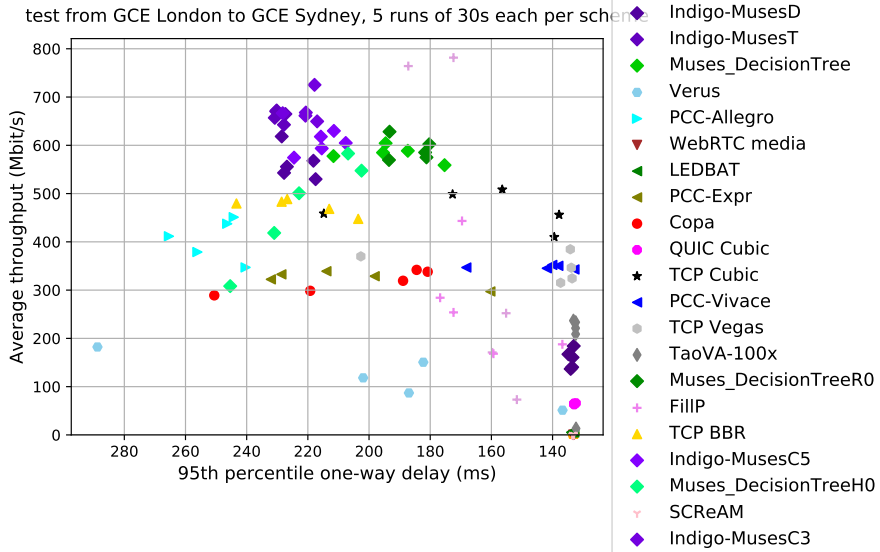
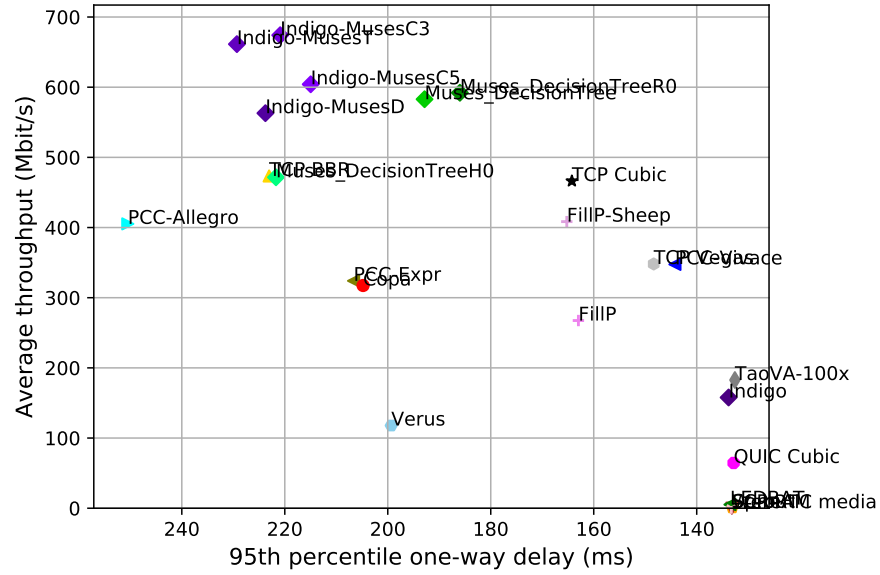
```
Linux 4.15.0-1036-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

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	473.50	223.04	1.60
Copa	5	317.41	204.80	1.24
TCP Cubic	5	466.23	164.25	1.05
FillP	5	267.47	162.98	0.53
FillP-Sheep	5	408.40	165.23	0.61
Indigo	5	157.81	133.81	0.91
Indigo-MusesC3	5	674.11	220.89	1.96
Indigo-MusesC5	5	604.14	214.97	1.60
Indigo-MusesD	5	562.98	223.77	1.98
Indigo-MusesT	5	661.37	229.30	2.72
LEDBAT	5	5.23	133.54	1.79
Muses_DecisionTree	5	582.84	192.85	1.35
Muses_DecisionTreeH0	5	471.58	221.71	4.28
Muses_DecisionTreeR0	5	592.06	186.00	1.23
PCC-Allegro	5	405.22	250.49	5.33
PCC-Expr	5	324.00	206.65	1.87
QUIC Cubic	5	64.48	132.83	1.26
SCReAM	5	0.15	133.28	0.85
Sprout	5	0.71	133.09	0.83
TaoVA-100x	5	182.70	132.59	0.93
TCP Vegas	5	348.07	148.35	0.80
Verus	5	117.84	199.33	4.81
PCC-Vivace	5	347.48	144.24	1.06
WebRTC media	4	0.05	133.17	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-08-27 03:55:43

End at: 2019-08-27 03:56:13

Local clock offset: 0.148 ms

Remote clock offset: -0.079 ms

Below is generated by plot.py at 2019-08-27 07:12:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 479.54 Mbit/s

95th percentile per-packet one-way delay: 243.343 ms

Loss rate: 2.11%

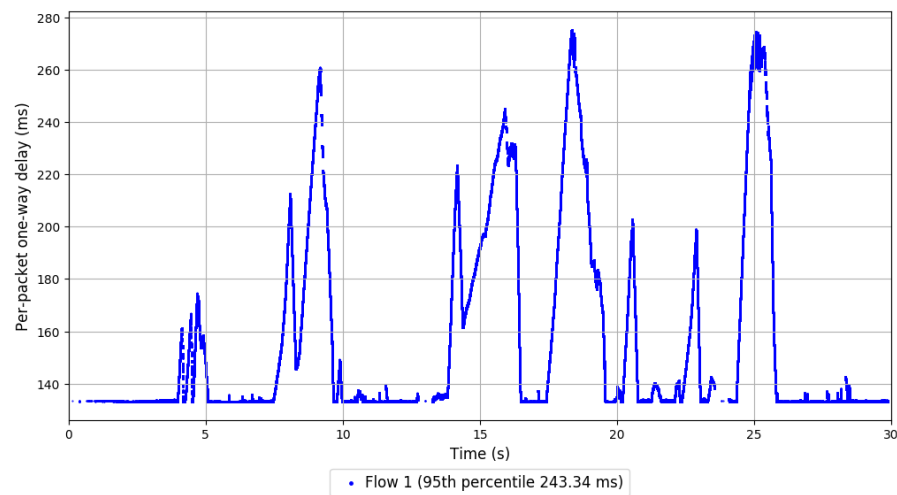
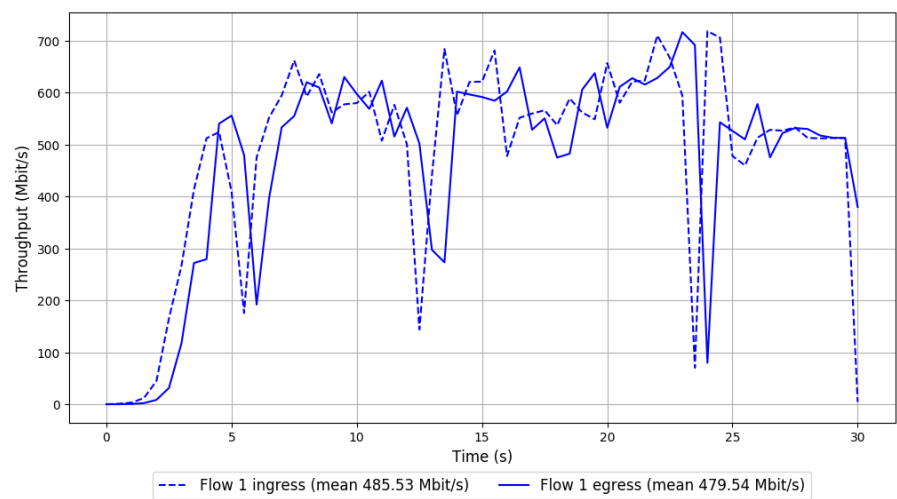
-- Flow 1:

Average throughput: 479.54 Mbit/s

95th percentile per-packet one-way delay: 243.343 ms

Loss rate: 2.11%

Run 1: Report of TCP BBR — Data Link

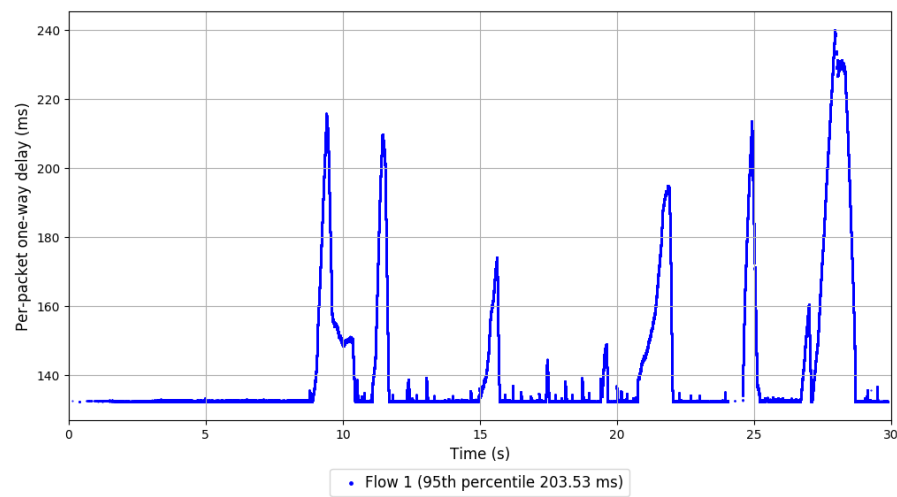
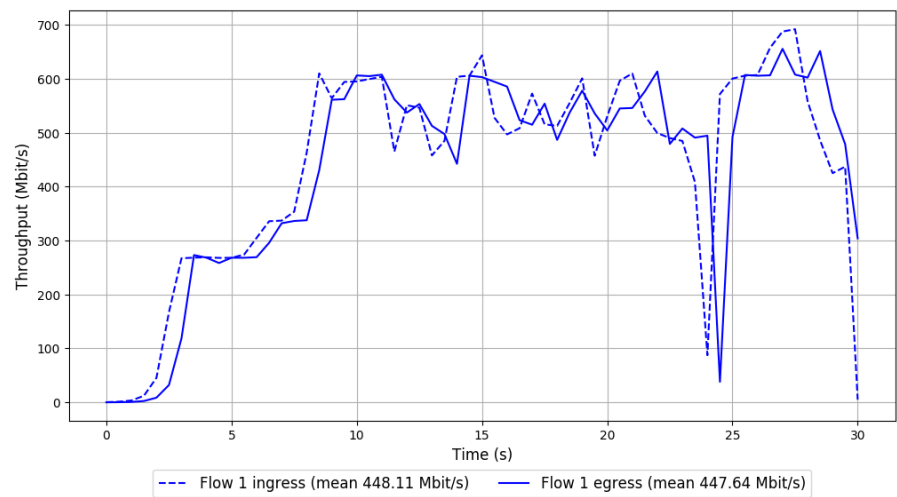


Run 2: Statistics of TCP BBR

Start at: 2019-08-27 04:31:10
End at: 2019-08-27 04:31:40
Local clock offset: -0.392 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2019-08-27 07:12:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 447.64 Mbit/s
95th percentile per-packet one-way delay: 203.530 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 447.64 Mbit/s
95th percentile per-packet one-way delay: 203.530 ms
Loss rate: 0.99%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-08-27 05:07:17

End at: 2019-08-27 05:07:47

Local clock offset: 0.262 ms

Remote clock offset: -0.147 ms

Below is generated by plot.py at 2019-08-27 07:12:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 468.36 Mbit/s

95th percentile per-packet one-way delay: 213.013 ms

Loss rate: 0.56%

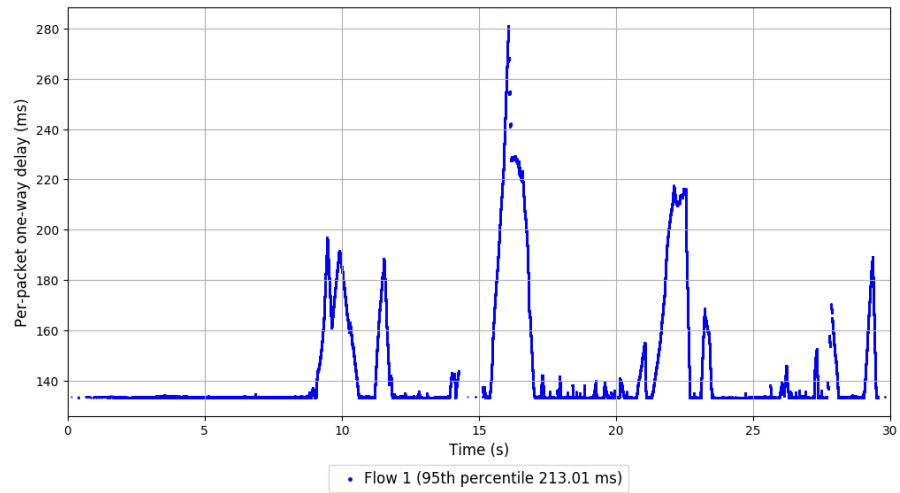
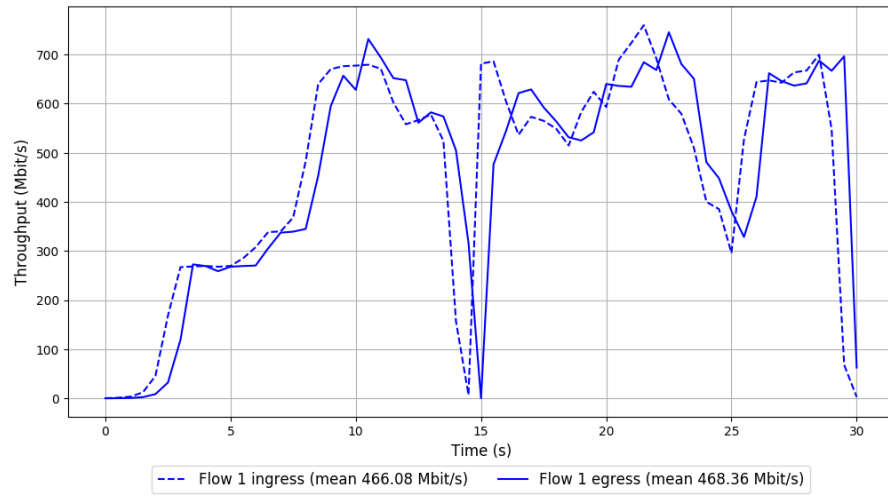
-- Flow 1:

Average throughput: 468.36 Mbit/s

95th percentile per-packet one-way delay: 213.013 ms

Loss rate: 0.56%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-08-27 05:42:54

End at: 2019-08-27 05:43:24

Local clock offset: 0.183 ms

Remote clock offset: -0.135 ms

Below is generated by plot.py at 2019-08-27 07:13:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 483.27 Mbit/s

95th percentile per-packet one-way delay: 228.576 ms

Loss rate: 2.11%

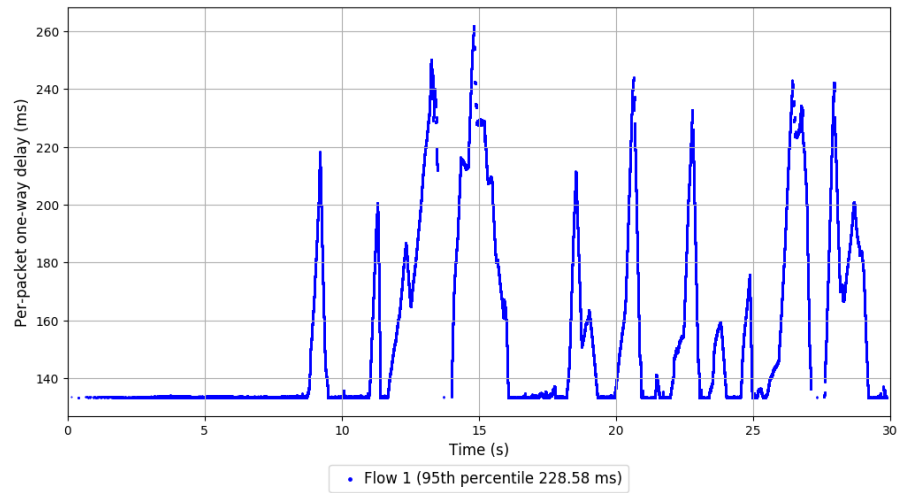
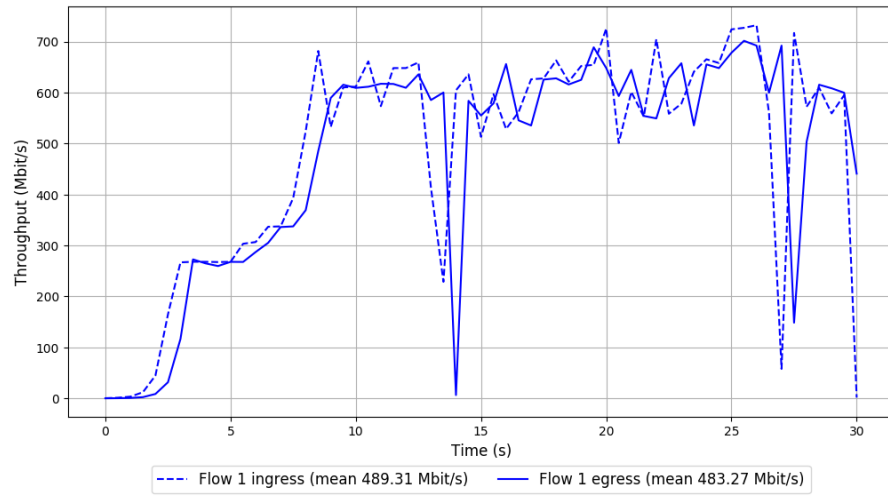
-- Flow 1:

Average throughput: 483.27 Mbit/s

95th percentile per-packet one-way delay: 228.576 ms

Loss rate: 2.11%

Run 4: Report of TCP BBR — Data Link

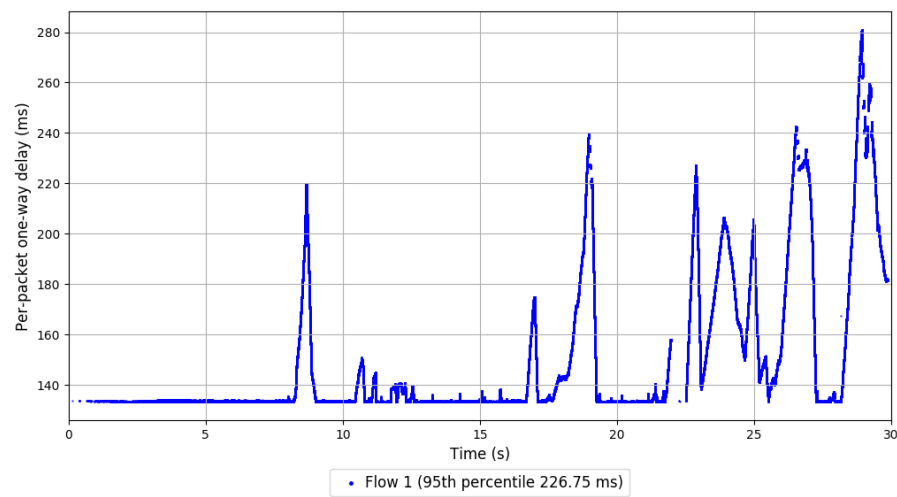
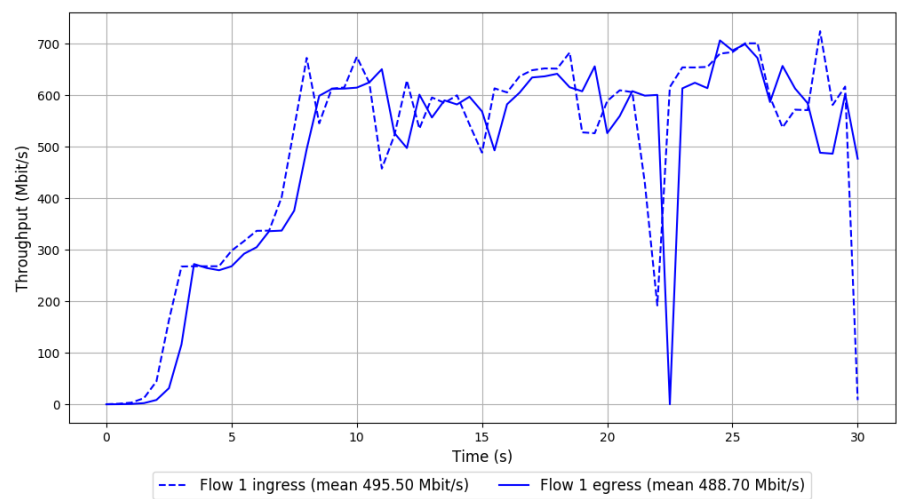


Run 5: Statistics of TCP BBR

Start at: 2019-08-27 06:19:21
End at: 2019-08-27 06:19:51
Local clock offset: 0.301 ms
Remote clock offset: -0.151 ms

Below is generated by plot.py at 2019-08-27 07:13:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 488.70 Mbit/s
95th percentile per-packet one-way delay: 226.752 ms
Loss rate: 2.25%
-- Flow 1:
Average throughput: 488.70 Mbit/s
95th percentile per-packet one-way delay: 226.752 ms
Loss rate: 2.25%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-08-27 04:24:56

End at: 2019-08-27 04:25:26

Local clock offset: -0.09 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2019-08-27 07:13:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 298.58 Mbit/s

95th percentile per-packet one-way delay: 219.239 ms

Loss rate: 1.21%

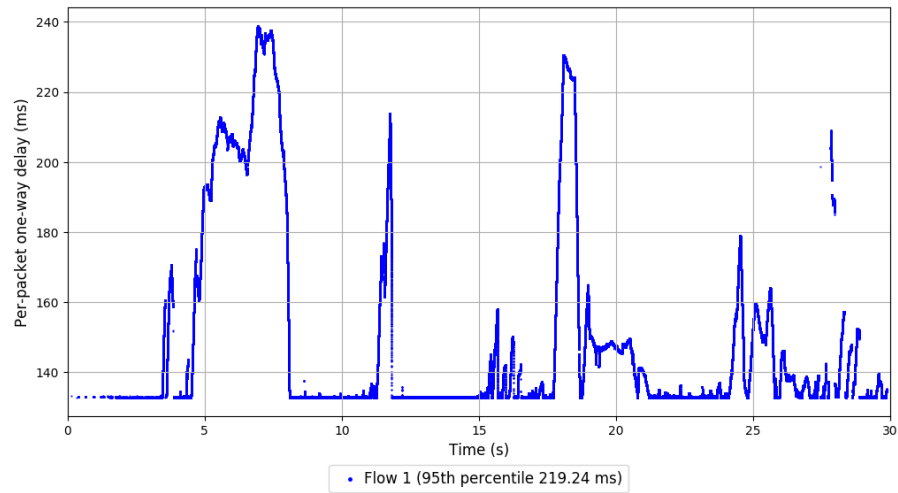
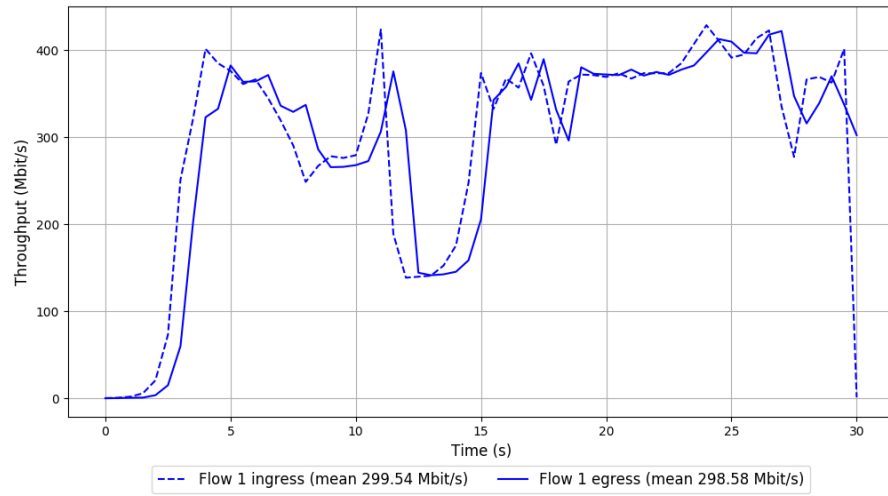
-- Flow 1:

Average throughput: 298.58 Mbit/s

95th percentile per-packet one-way delay: 219.239 ms

Loss rate: 1.21%

Run 1: Report of Copa — Data Link

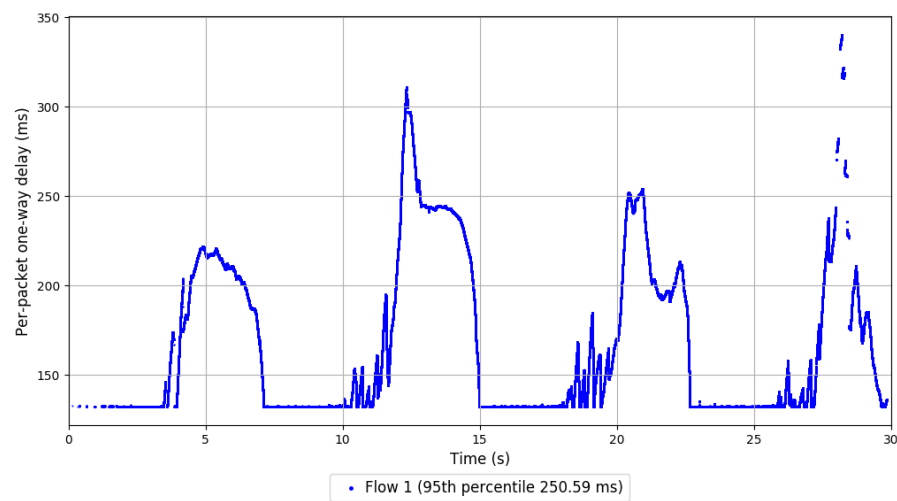
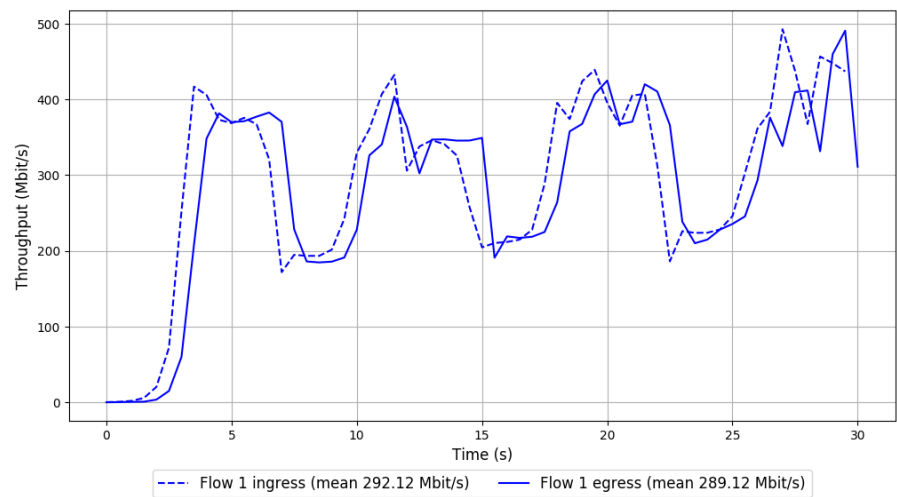


Run 2: Statistics of Copa

Start at: 2019-08-27 05:00:37
End at: 2019-08-27 05:01:07
Local clock offset: -0.514 ms
Remote clock offset: -0.111 ms

Below is generated by plot.py at 2019-08-27 07:13:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 289.12 Mbit/s
95th percentile per-packet one-way delay: 250.592 ms
Loss rate: 1.91%
-- Flow 1:
Average throughput: 289.12 Mbit/s
95th percentile per-packet one-way delay: 250.592 ms
Loss rate: 1.91%

Run 2: Report of Copa — Data Link

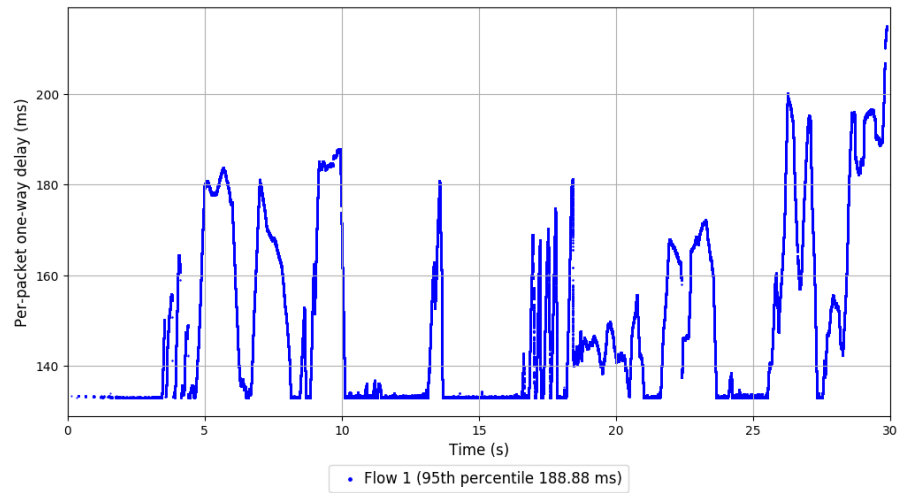
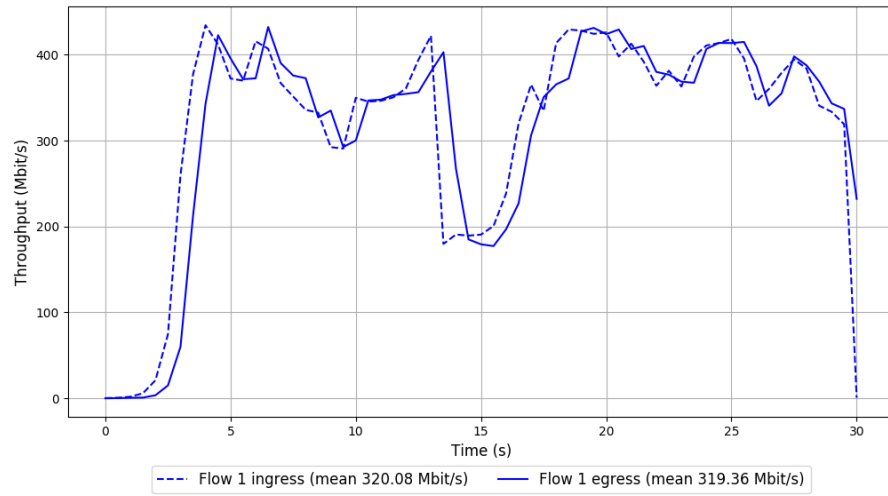


Run 3: Statistics of Copa

Start at: 2019-08-27 05:36:38
End at: 2019-08-27 05:37:08
Local clock offset: -0.076 ms
Remote clock offset: -0.169 ms

Below is generated by plot.py at 2019-08-27 07:14:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 319.36 Mbit/s
95th percentile per-packet one-way delay: 188.879 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 319.36 Mbit/s
95th percentile per-packet one-way delay: 188.879 ms
Loss rate: 1.11%

Run 3: Report of Copa — Data Link

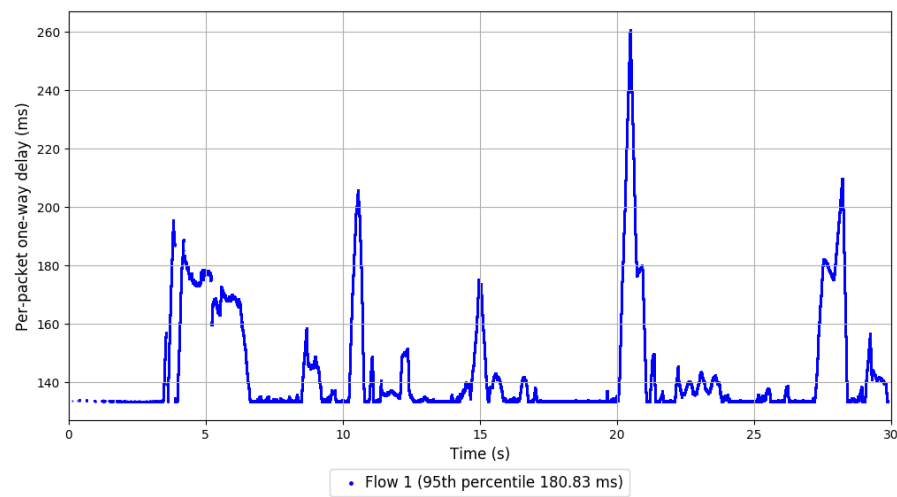
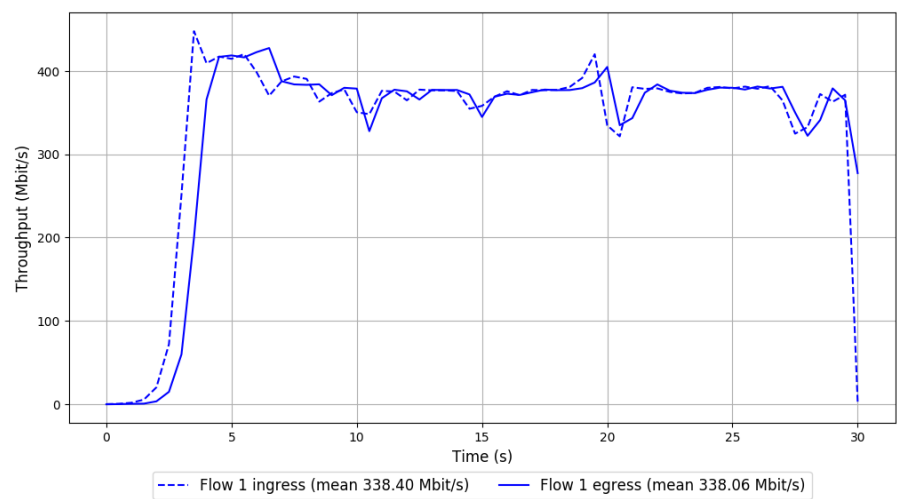


Run 4: Statistics of Copa

Start at: 2019-08-27 06:12:40
End at: 2019-08-27 06:13:10
Local clock offset: 0.249 ms
Remote clock offset: -0.553 ms

Below is generated by plot.py at 2019-08-27 07:21:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 338.06 Mbit/s
95th percentile per-packet one-way delay: 180.830 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 338.06 Mbit/s
95th percentile per-packet one-way delay: 180.830 ms
Loss rate: 0.99%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-08-27 06:48:57

End at: 2019-08-27 06:49:27

Local clock offset: 0.055 ms

Remote clock offset: -0.23 ms

Below is generated by plot.py at 2019-08-27 07:22:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 341.91 Mbit/s

95th percentile per-packet one-way delay: 184.437 ms

Loss rate: 0.99%

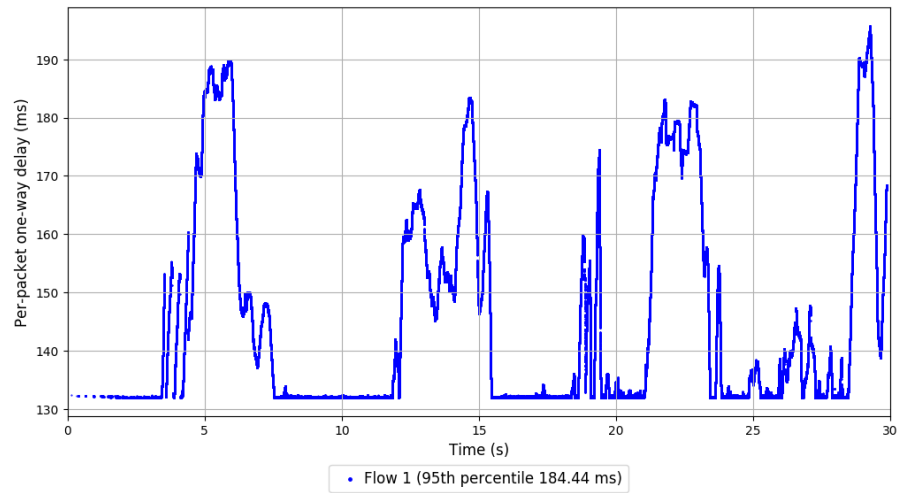
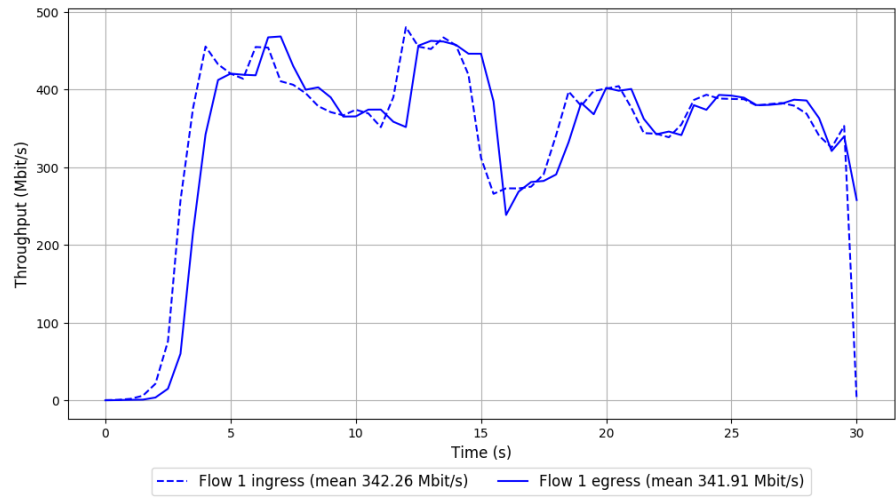
-- Flow 1:

Average throughput: 341.91 Mbit/s

95th percentile per-packet one-way delay: 184.437 ms

Loss rate: 0.99%

Run 5: Report of Copa — Data Link

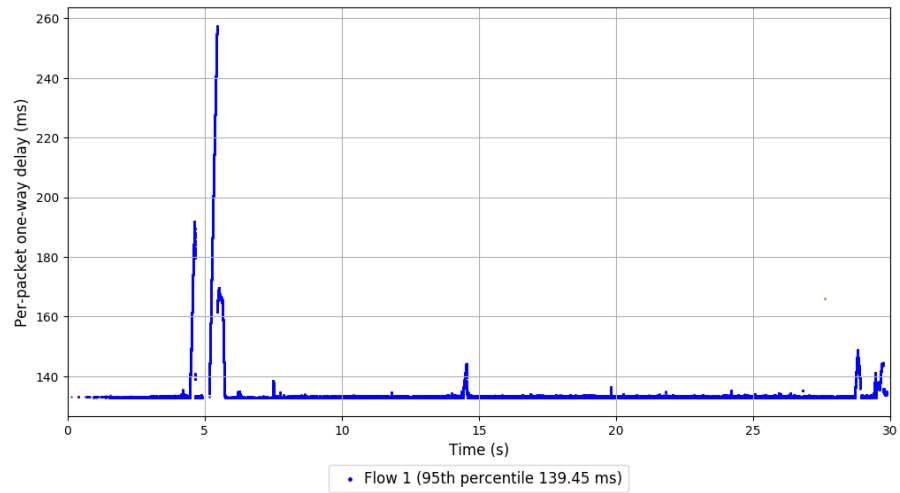
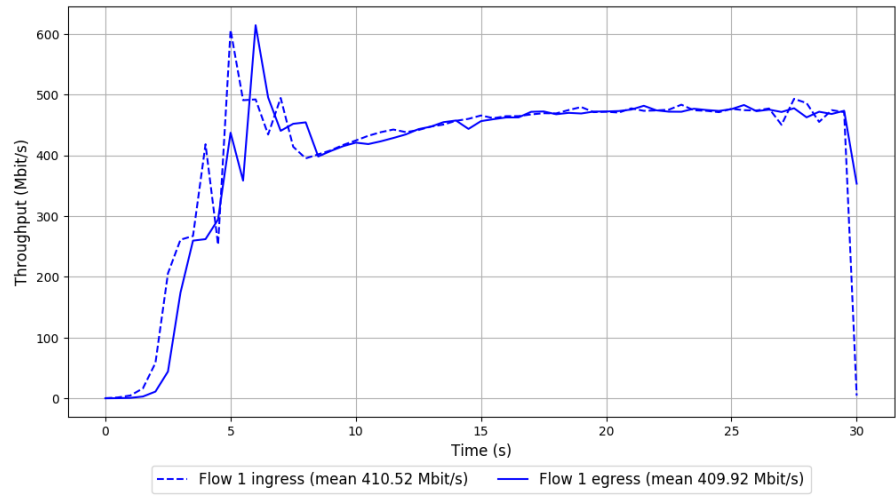


Run 1: Statistics of TCP Cubic

Start at: 2019-08-27 04:01:43
End at: 2019-08-27 04:02:13
Local clock offset: 0.034 ms
Remote clock offset: -0.019 ms

Below is generated by plot.py at 2019-08-27 07:22:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 409.92 Mbit/s
95th percentile per-packet one-way delay: 139.448 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 409.92 Mbit/s
95th percentile per-packet one-way delay: 139.448 ms
Loss rate: 1.03%

Run 1: Report of TCP Cubic — Data Link

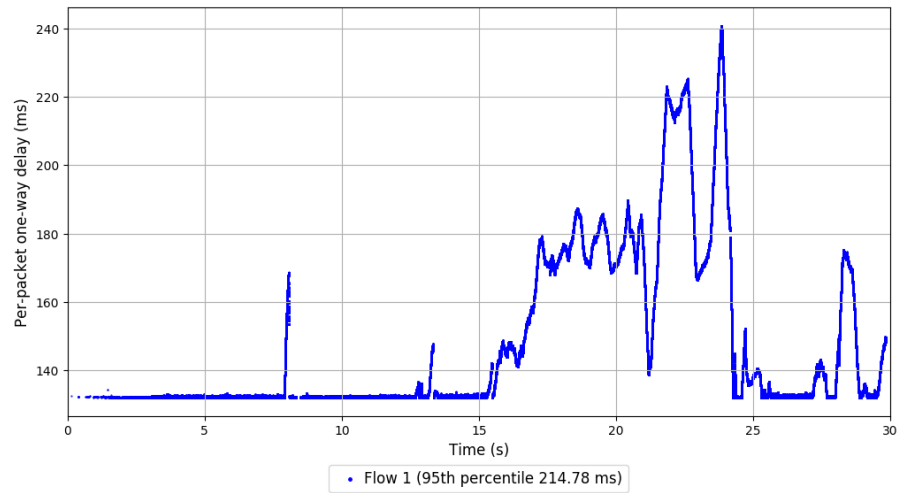
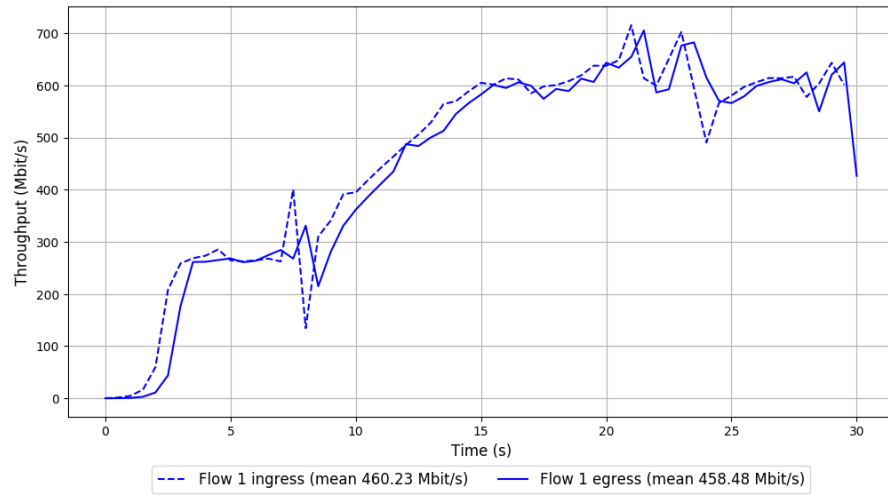


Run 2: Statistics of TCP Cubic

Start at: 2019-08-27 04:37:07
End at: 2019-08-27 04:37:37
Local clock offset: -0.309 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2019-08-27 07:22:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 458.48 Mbit/s
95th percentile per-packet one-way delay: 214.782 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 458.48 Mbit/s
95th percentile per-packet one-way delay: 214.782 ms
Loss rate: 1.26%

Run 2: Report of TCP Cubic — Data Link

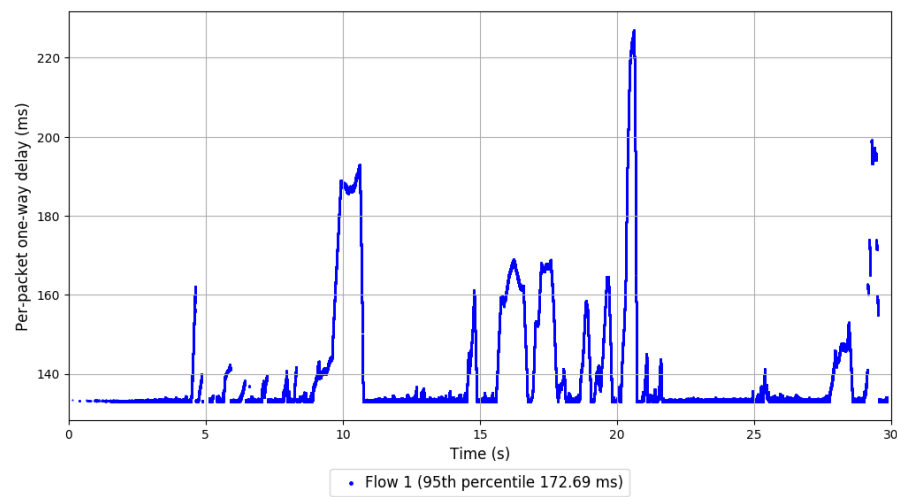
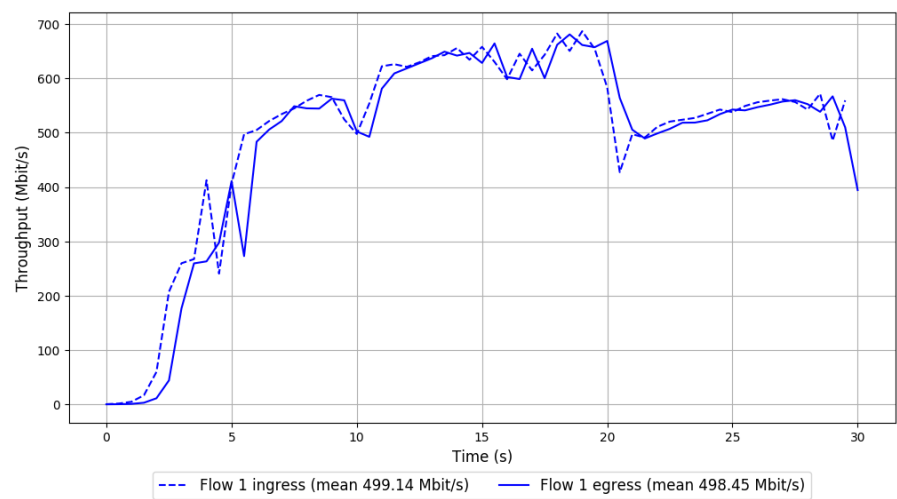


Run 3: Statistics of TCP Cubic

Start at: 2019-08-27 05:13:16
End at: 2019-08-27 05:13:46
Local clock offset: 0.143 ms
Remote clock offset: -0.133 ms

Below is generated by plot.py at 2019-08-27 07:22:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 498.45 Mbit/s
95th percentile per-packet one-way delay: 172.689 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 498.45 Mbit/s
95th percentile per-packet one-way delay: 172.689 ms
Loss rate: 1.02%

Run 3: Report of TCP Cubic — Data Link

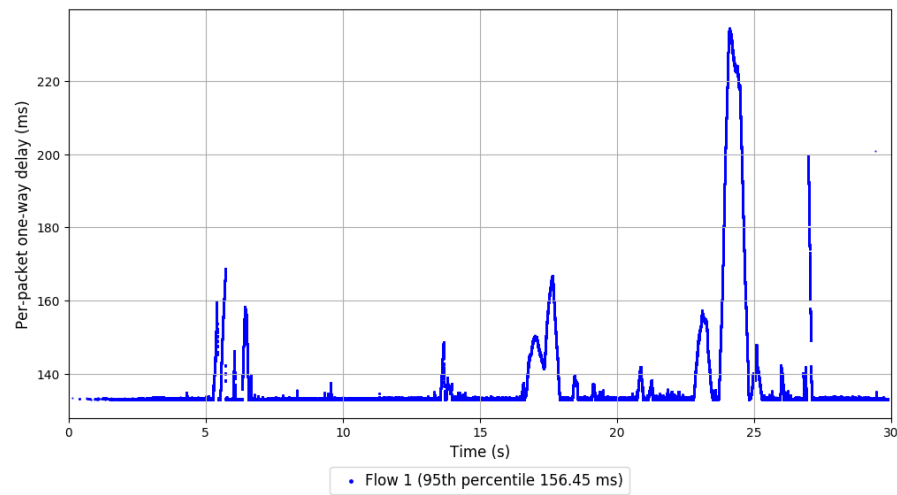
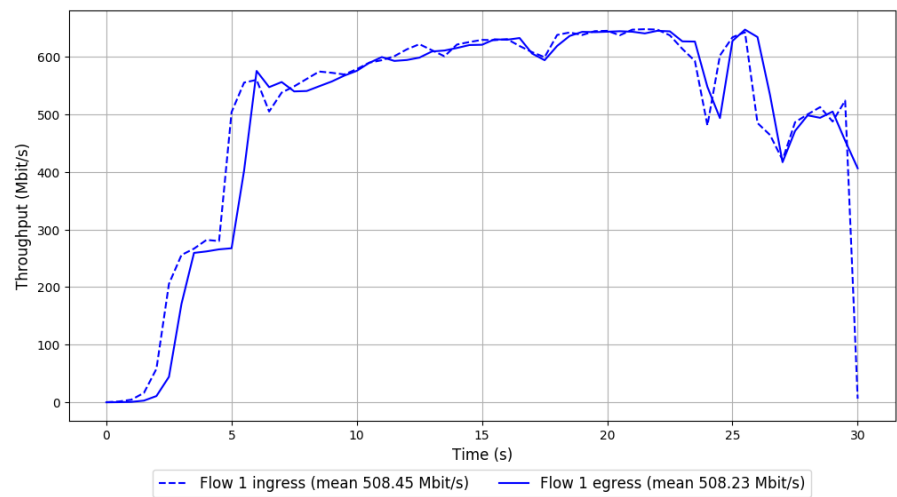


Run 4: Statistics of TCP Cubic

Start at: 2019-08-27 05:48:55
End at: 2019-08-27 05:49:25
Local clock offset: -0.041 ms
Remote clock offset: -0.088 ms

Below is generated by plot.py at 2019-08-27 07:22:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 508.23 Mbit/s
95th percentile per-packet one-way delay: 156.449 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 508.23 Mbit/s
95th percentile per-packet one-way delay: 156.449 ms
Loss rate: 0.93%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-08-27 06:25:26

End at: 2019-08-27 06:25:56

Local clock offset: -0.023 ms

Remote clock offset: -0.2 ms

Below is generated by plot.py at 2019-08-27 07:22:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 456.07 Mbit/s

95th percentile per-packet one-way delay: 137.867 ms

Loss rate: 1.00%

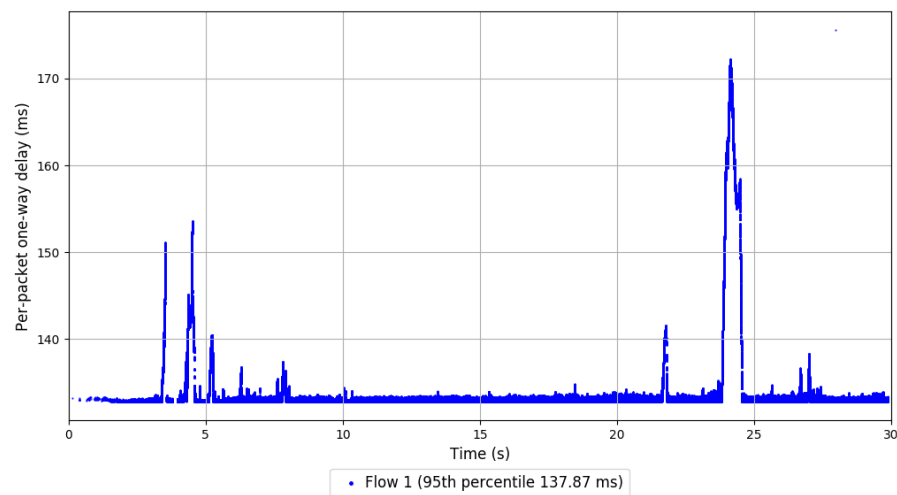
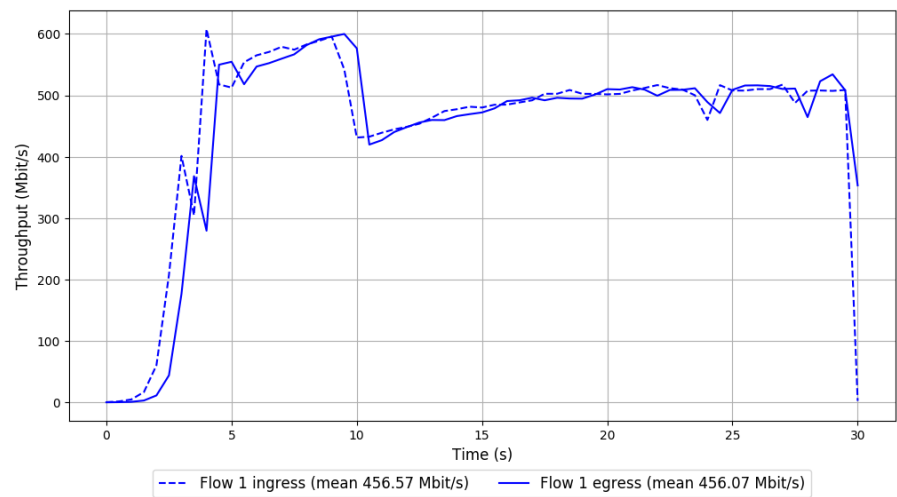
-- Flow 1:

Average throughput: 456.07 Mbit/s

95th percentile per-packet one-way delay: 137.867 ms

Loss rate: 1.00%

Run 5: Report of TCP Cubic — Data Link

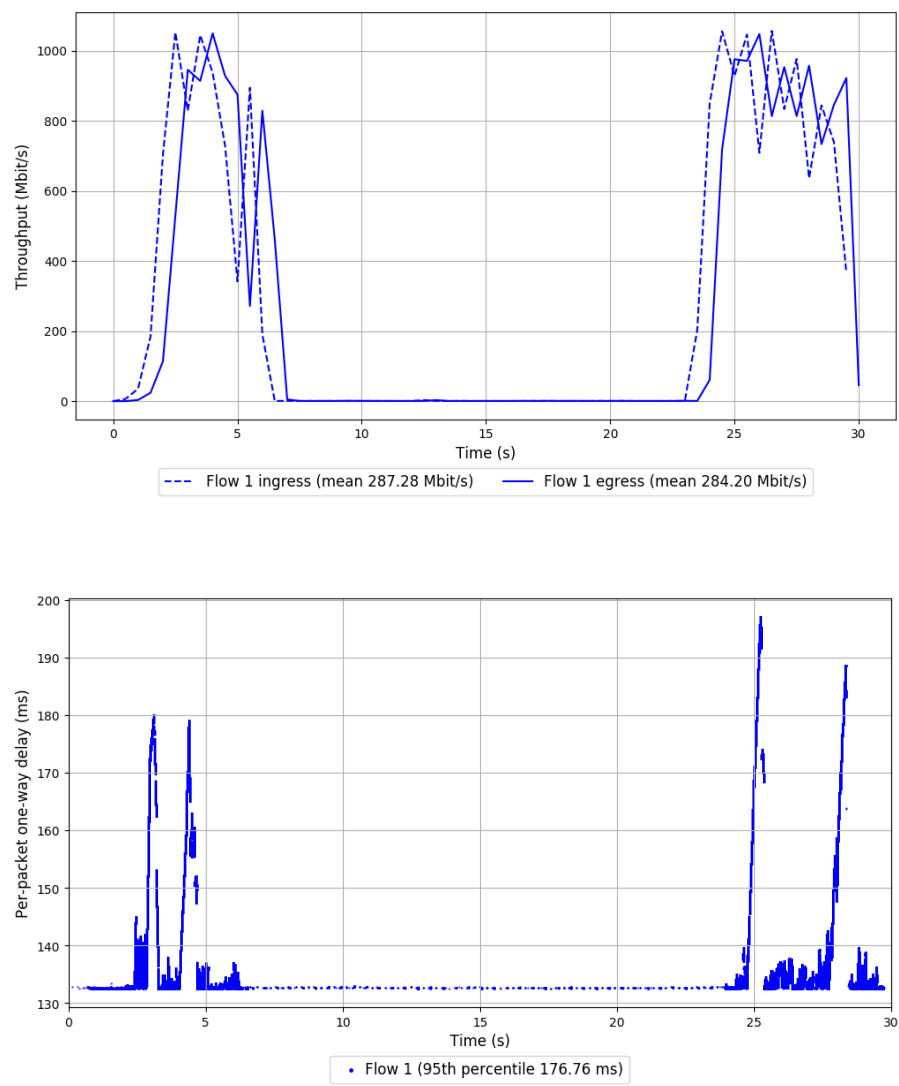


Run 1: Statistics of FillP

Start at: 2019-08-27 04:13:21
End at: 2019-08-27 04:13:51
Local clock offset: -0.111 ms
Remote clock offset: -0.375 ms

Below is generated by plot.py at 2019-08-27 07:22:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 284.20 Mbit/s
95th percentile per-packet one-way delay: 176.762 ms
Loss rate: 2.24%
-- Flow 1:
Average throughput: 284.20 Mbit/s
95th percentile per-packet one-way delay: 176.762 ms
Loss rate: 2.24%

Run 1: Report of FillP — Data Link

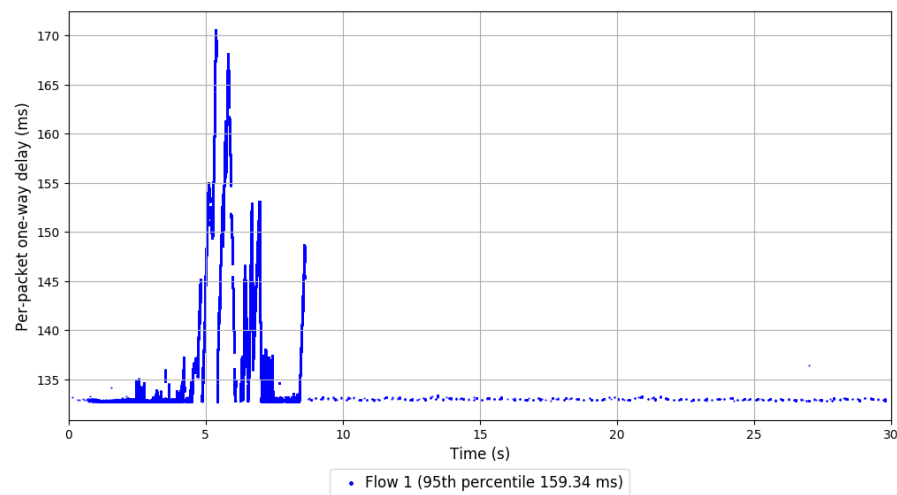
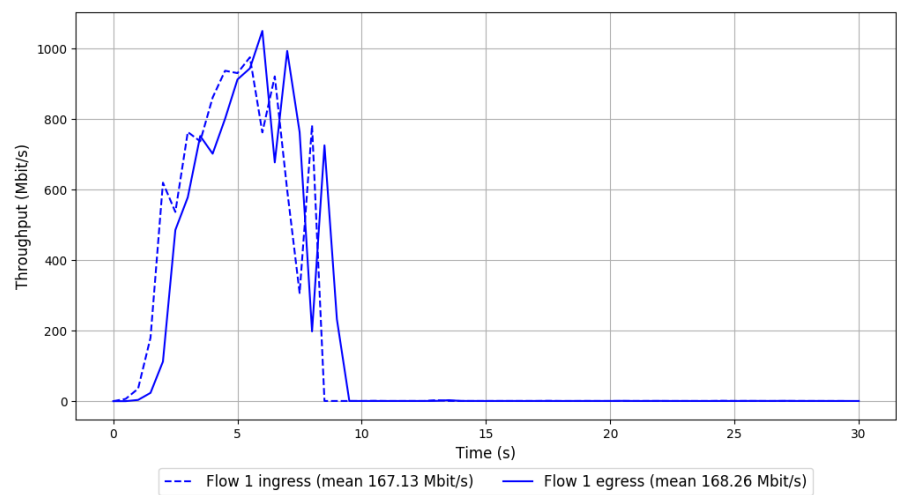


Run 2: Statistics of FillP

Start at: 2019-08-27 04:49:15
End at: 2019-08-27 04:49:45
Local clock offset: -0.105 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2019-08-27 07:22:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 168.26 Mbit/s
95th percentile per-packet one-way delay: 159.335 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 168.26 Mbit/s
95th percentile per-packet one-way delay: 159.335 ms
Loss rate: 0.00%

Run 2: Report of FillP — Data Link

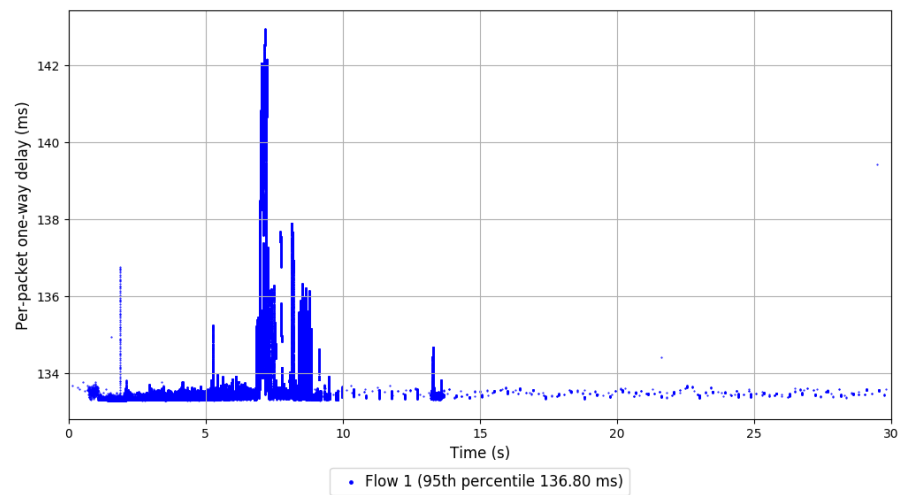
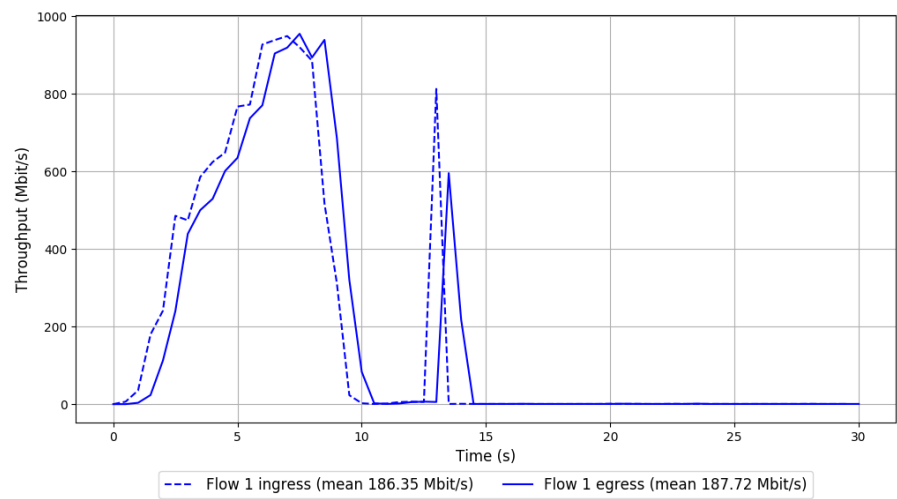


Run 3: Statistics of FillP

Start at: 2019-08-27 05:25:24
End at: 2019-08-27 05:25:55
Local clock offset: 0.363 ms
Remote clock offset: -0.118 ms

Below is generated by plot.py at 2019-08-27 07:22:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 187.72 Mbit/s
95th percentile per-packet one-way delay: 136.801 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 187.72 Mbit/s
95th percentile per-packet one-way delay: 136.801 ms
Loss rate: 0.00%

Run 3: Report of FillP — Data Link

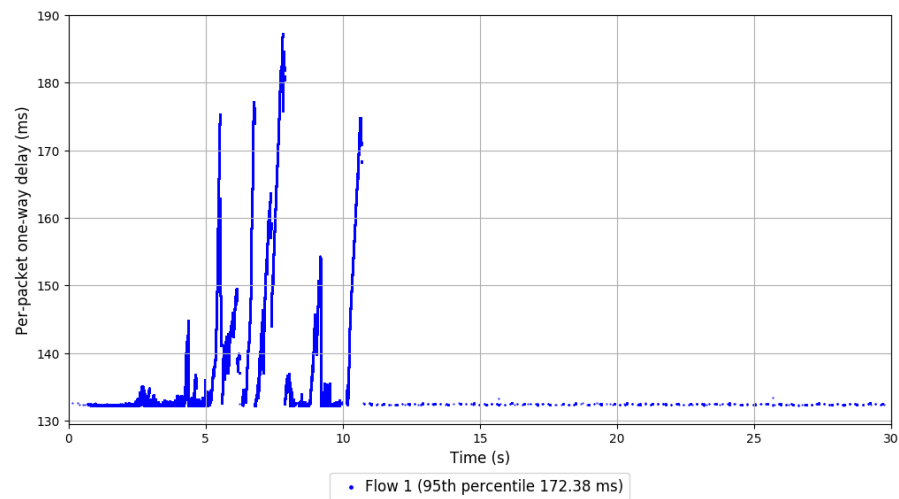
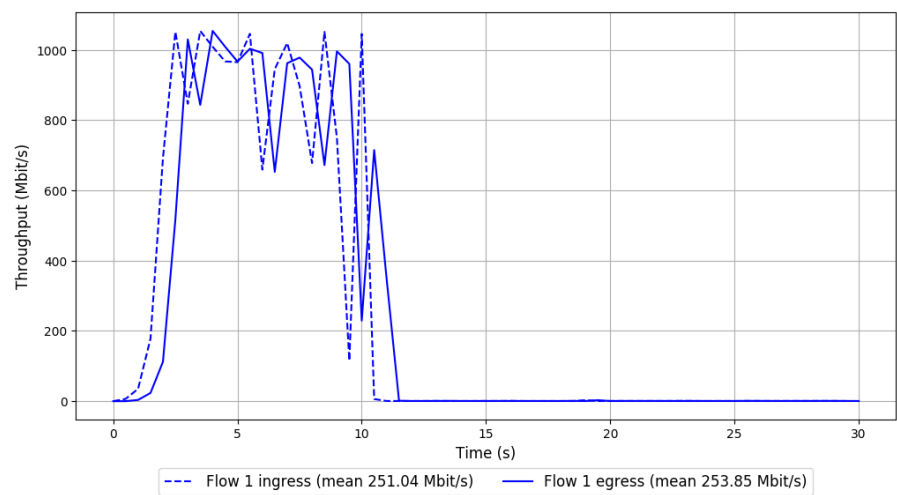


Run 4: Statistics of FillP

Start at: 2019-08-27 06:01:12
End at: 2019-08-27 06:01:42
Local clock offset: -0.416 ms
Remote clock offset: -0.111 ms

Below is generated by plot.py at 2019-08-27 07:23:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 253.85 Mbit/s
95th percentile per-packet one-way delay: 172.384 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 253.85 Mbit/s
95th percentile per-packet one-way delay: 172.384 ms
Loss rate: 0.04%

Run 4: Report of FillP — Data Link

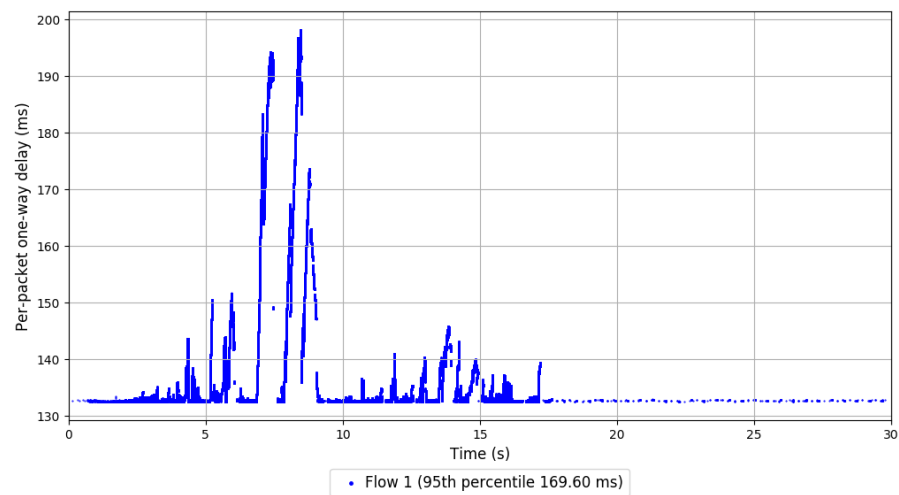
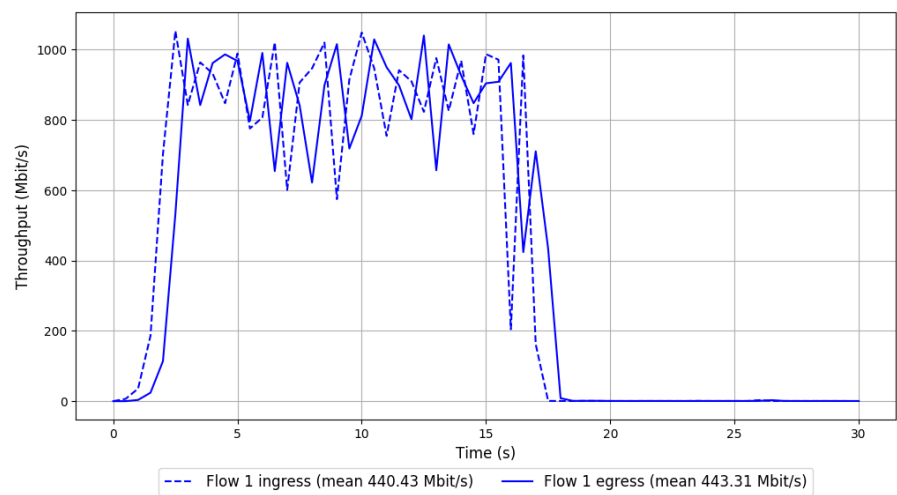


Run 5: Statistics of FillP

Start at: 2019-08-27 06:37:27
End at: 2019-08-27 06:37:57
Local clock offset: -0.338 ms
Remote clock offset: -0.184 ms

Below is generated by plot.py at 2019-08-27 07:27:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 443.31 Mbit/s
95th percentile per-packet one-way delay: 169.602 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 443.31 Mbit/s
95th percentile per-packet one-way delay: 169.602 ms
Loss rate: 0.37%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-08-27 04:28:16

End at: 2019-08-27 04:28:46

Local clock offset: -0.025 ms

Remote clock offset: 0.017 ms

Below is generated by plot.py at 2019-08-27 07:27:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.15 Mbit/s

95th percentile per-packet one-way delay: 151.675 ms

Loss rate: 0.00%

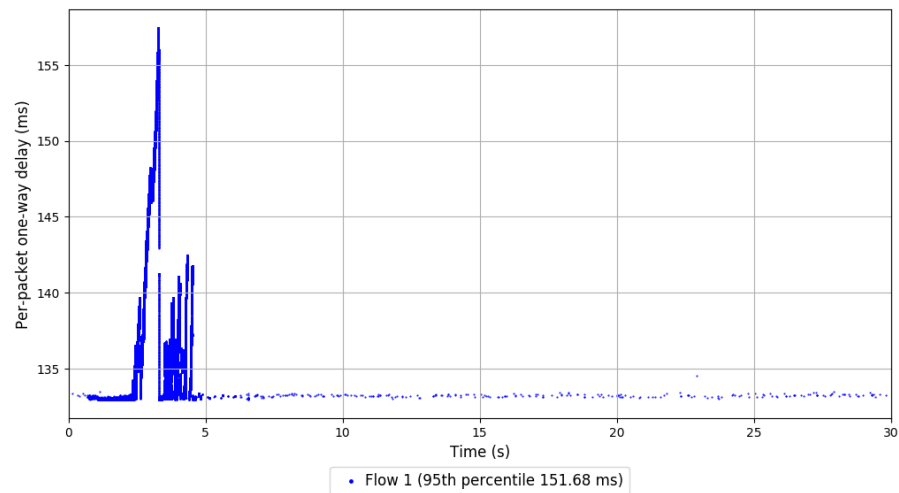
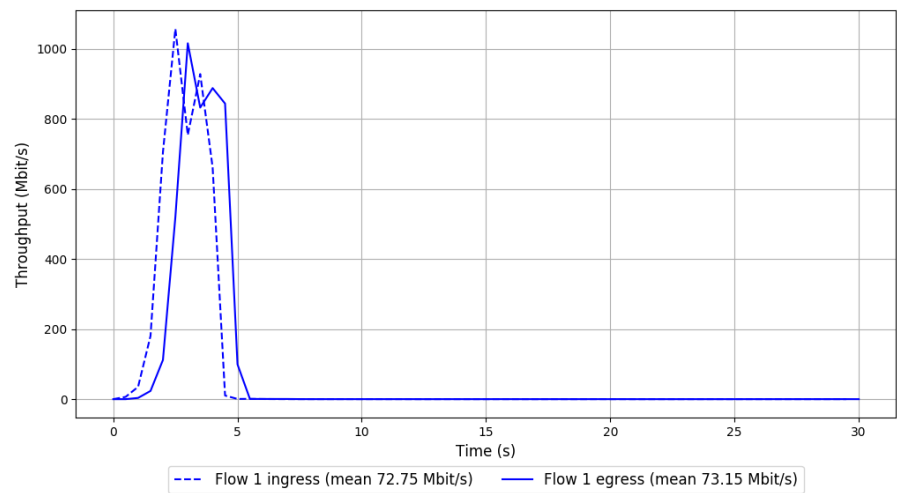
-- Flow 1:

Average throughput: 73.15 Mbit/s

95th percentile per-packet one-way delay: 151.675 ms

Loss rate: 0.00%

Run 1: Report of FillP-Sheep — Data Link

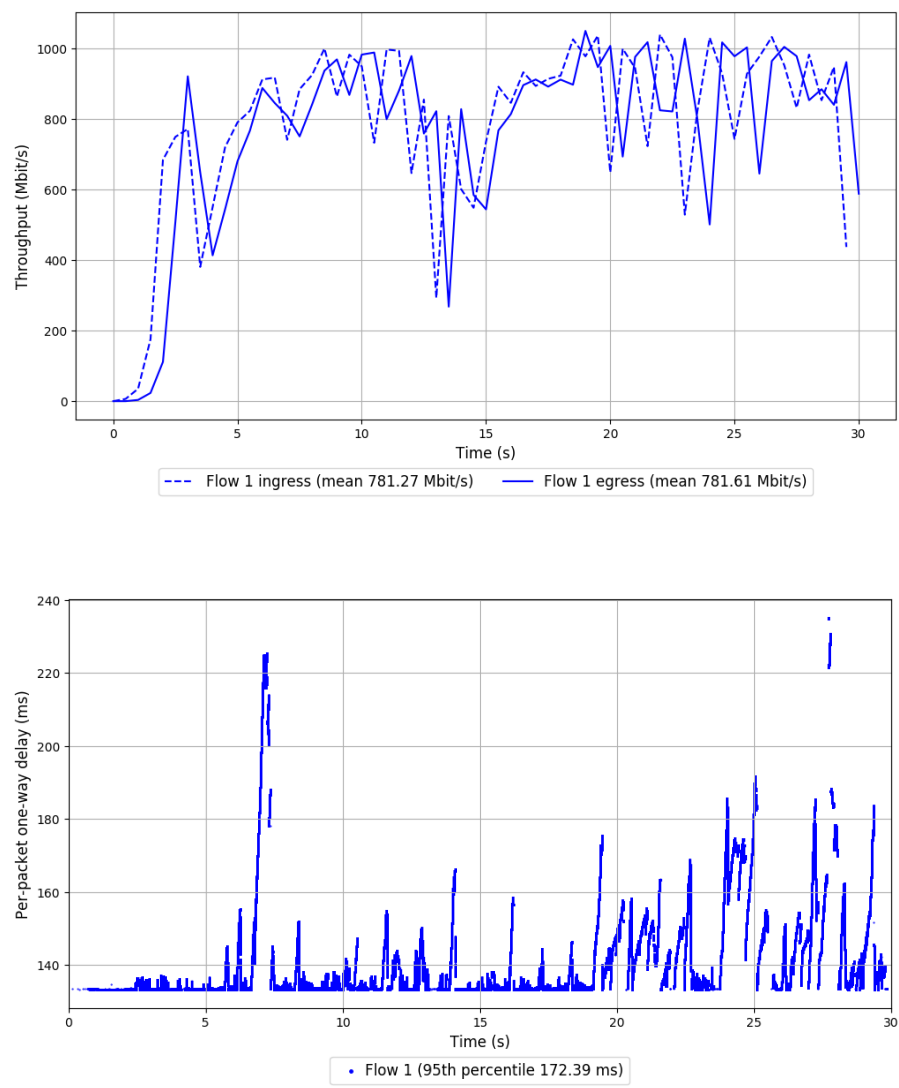


Run 2: Statistics of FillP-Sheep

Start at: 2019-08-27 05:03:54
End at: 2019-08-27 05:04:24
Local clock offset: -0.189 ms
Remote clock offset: -0.453 ms

Below is generated by plot.py at 2019-08-27 07:35:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 781.61 Mbit/s
95th percentile per-packet one-way delay: 172.394 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 781.61 Mbit/s
95th percentile per-packet one-way delay: 172.394 ms
Loss rate: 0.85%

Run 2: Report of FillP-Sheep — Data Link

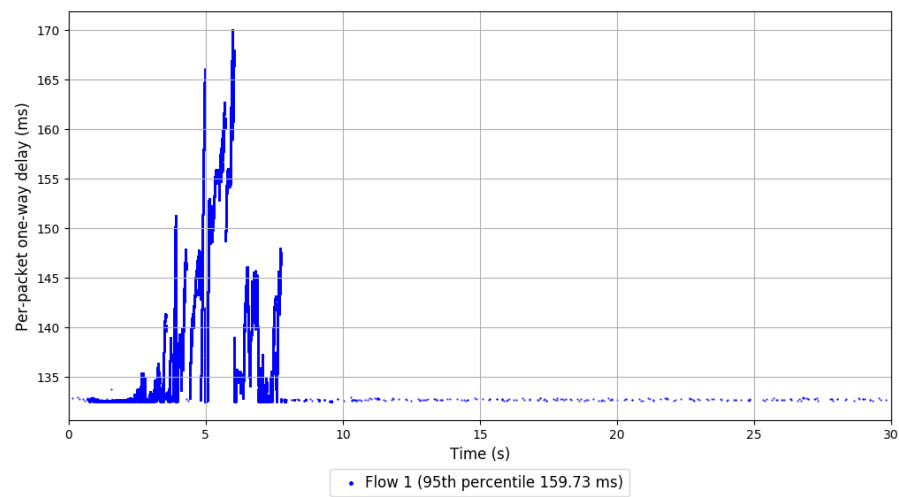
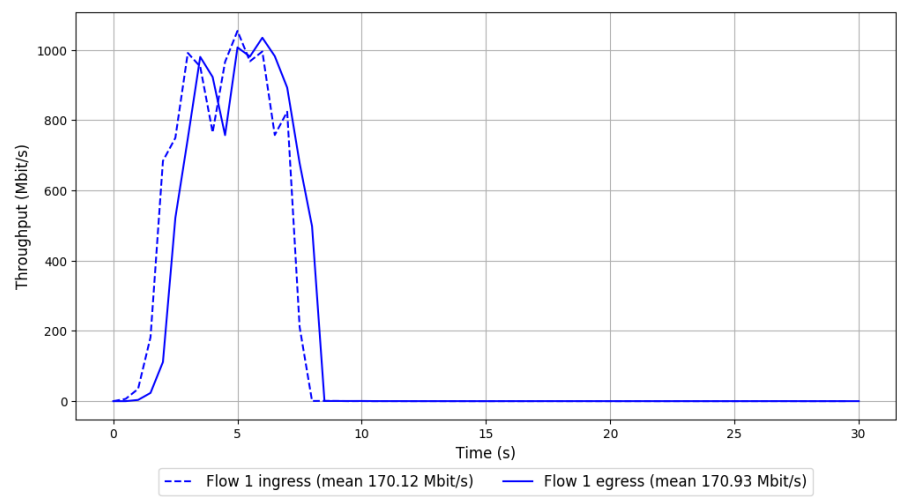


Run 3: Statistics of FillP-Sheep

Start at: 2019-08-27 05:39:57
End at: 2019-08-27 05:40:27
Local clock offset: -0.4 ms
Remote clock offset: -0.137 ms

Below is generated by plot.py at 2019-08-27 07:35:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 170.93 Mbit/s
95th percentile per-packet one-way delay: 159.733 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 170.93 Mbit/s
95th percentile per-packet one-way delay: 159.733 ms
Loss rate: 0.00%

Run 3: Report of FillP-Sheep — Data Link

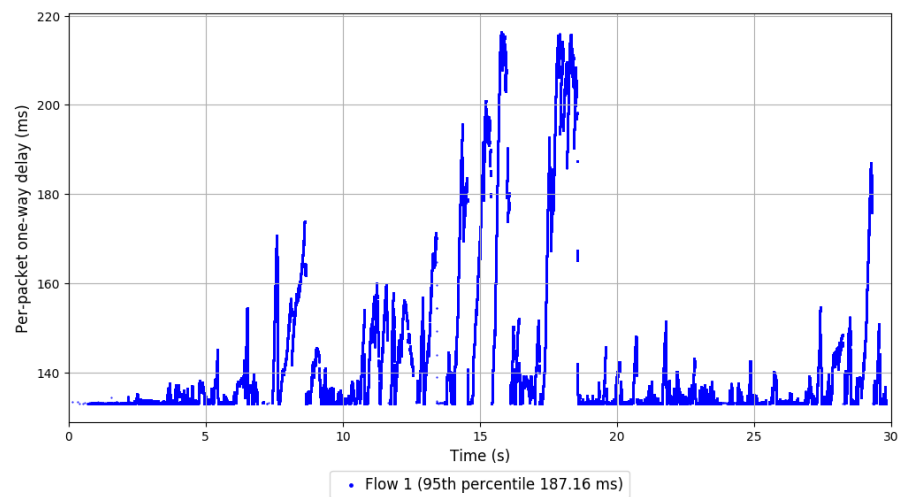
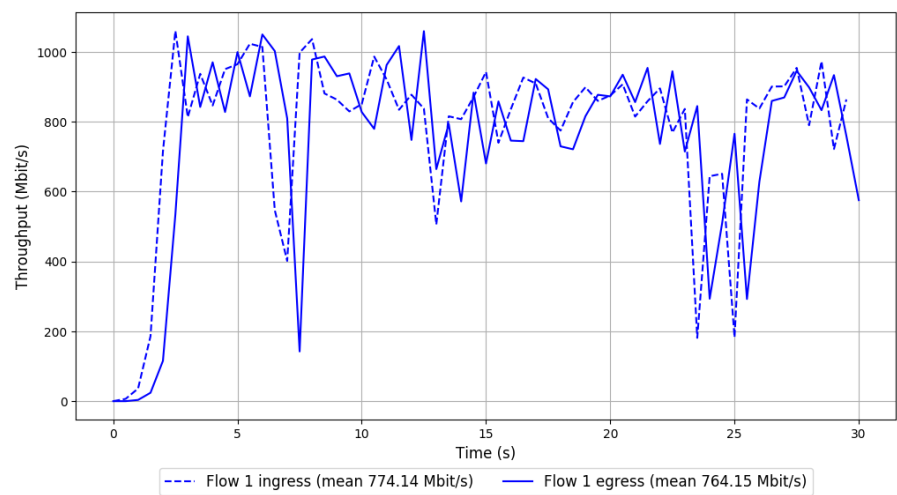


Run 4: Statistics of FillP-Sheep

Start at: 2019-08-27 06:15:58
End at: 2019-08-27 06:16:28
Local clock offset: 0.232 ms
Remote clock offset: -0.153 ms

Below is generated by plot.py at 2019-08-27 07:35:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 764.15 Mbit/s
95th percentile per-packet one-way delay: 187.163 ms
Loss rate: 2.17%
-- Flow 1:
Average throughput: 764.15 Mbit/s
95th percentile per-packet one-way delay: 187.163 ms
Loss rate: 2.17%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-08-27 06:52:15

End at: 2019-08-27 06:52:45

Local clock offset: -0.032 ms

Remote clock offset: -0.28 ms

Below is generated by plot.py at 2019-08-27 07:35:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 252.15 Mbit/s

95th percentile per-packet one-way delay: 155.189 ms

Loss rate: 0.04%

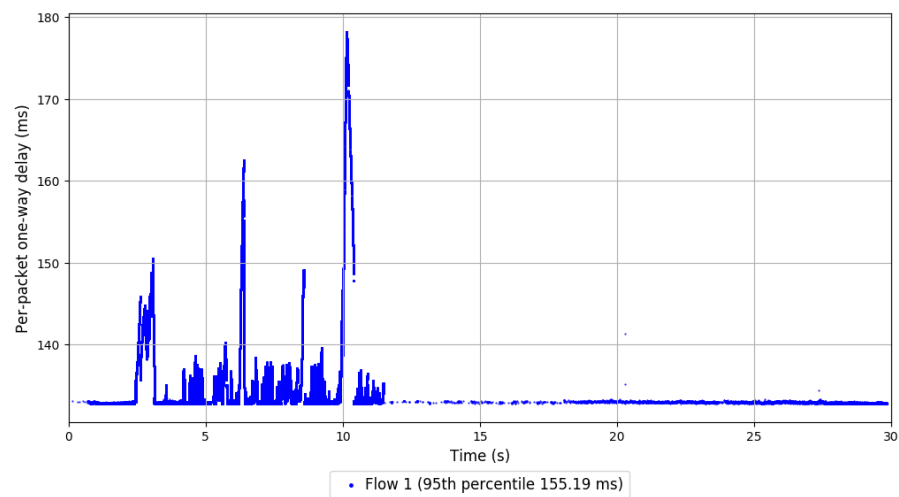
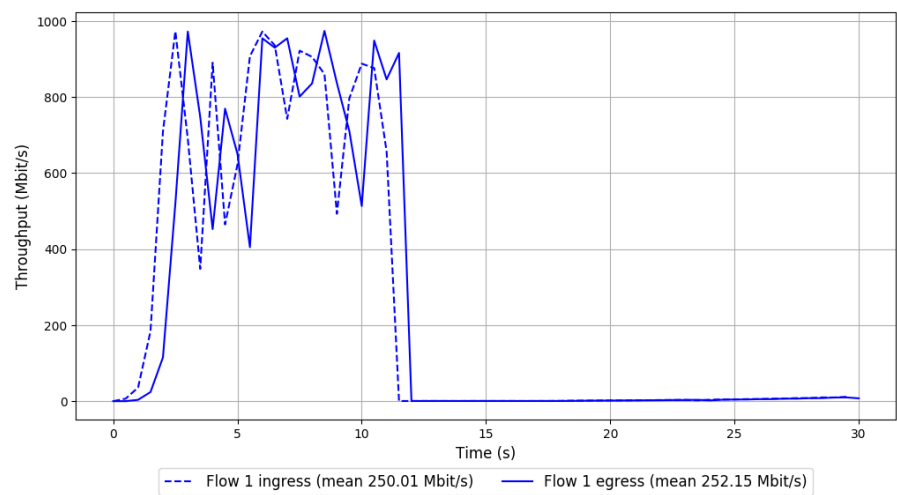
-- Flow 1:

Average throughput: 252.15 Mbit/s

95th percentile per-packet one-way delay: 155.189 ms

Loss rate: 0.04%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-08-27 04:19:06

End at: 2019-08-27 04:19:36

Local clock offset: -0.09 ms

Remote clock offset: -0.381 ms

Below is generated by plot.py at 2019-08-27 07:35:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.19 Mbit/s

95th percentile per-packet one-way delay: 133.078 ms

Loss rate: 0.92%

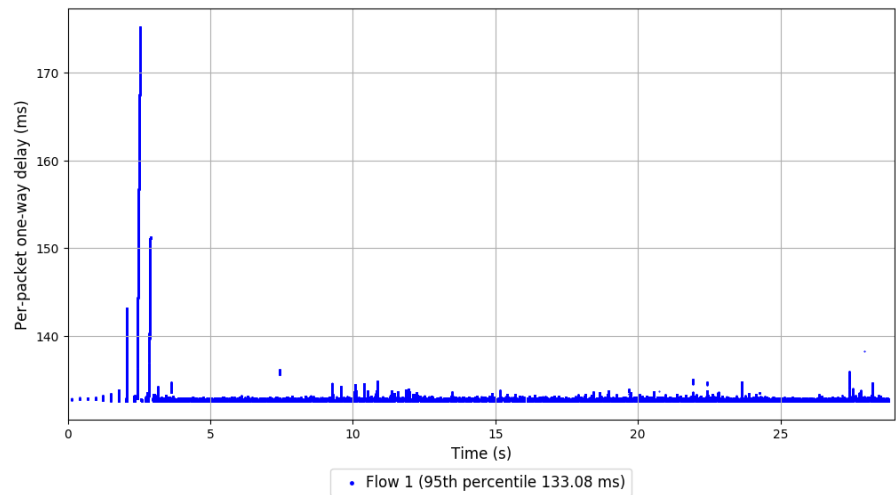
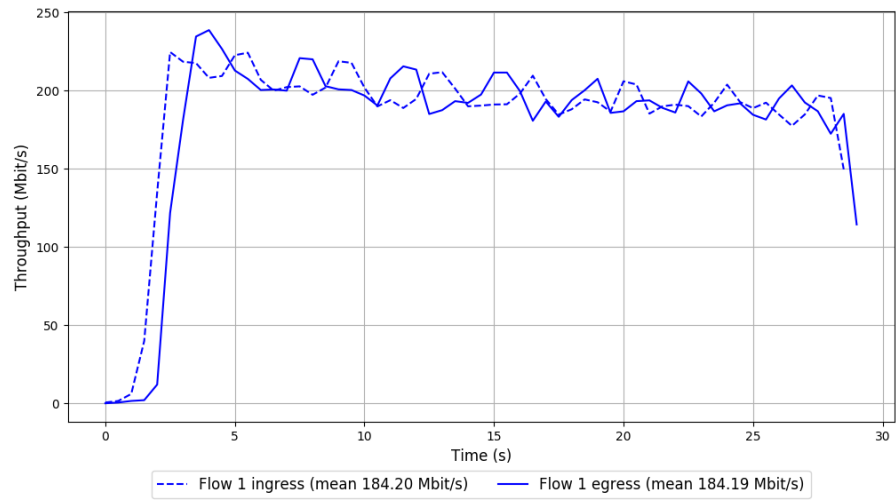
-- Flow 1:

Average throughput: 184.19 Mbit/s

95th percentile per-packet one-way delay: 133.078 ms

Loss rate: 0.92%

Run 1: Report of Indigo — Data Link

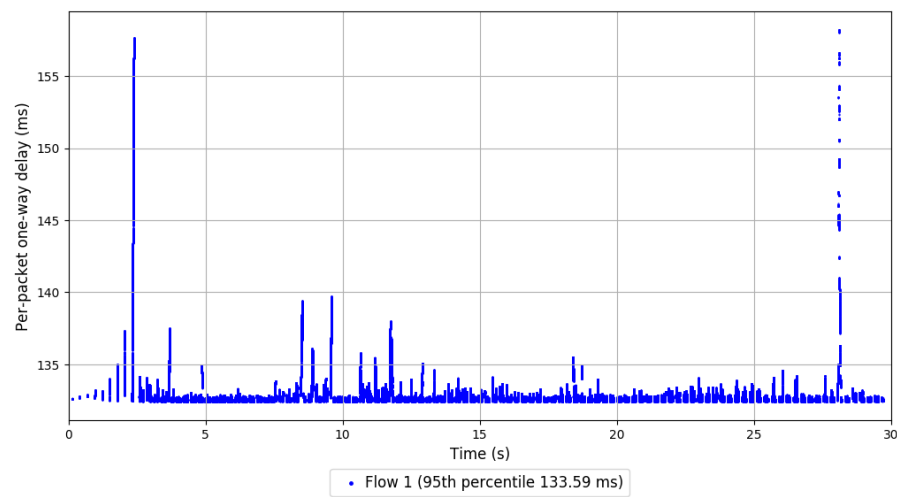
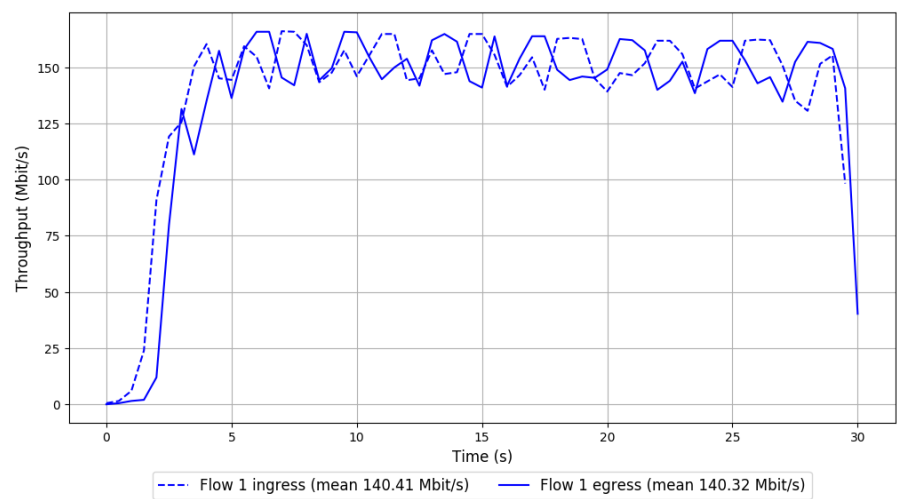


Run 2: Statistics of Indigo

Start at: 2019-08-27 04:54:57
End at: 2019-08-27 04:55:27
Local clock offset: -0.448 ms
Remote clock offset: -0.089 ms

Below is generated by plot.py at 2019-08-27 07:35:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 140.32 Mbit/s
95th percentile per-packet one-way delay: 133.587 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 140.32 Mbit/s
95th percentile per-packet one-way delay: 133.587 ms
Loss rate: 0.95%

Run 2: Report of Indigo — Data Link

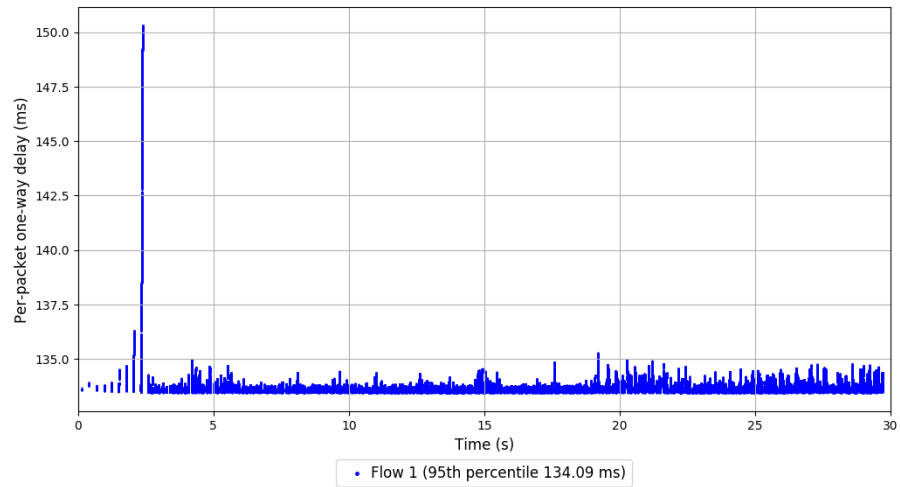
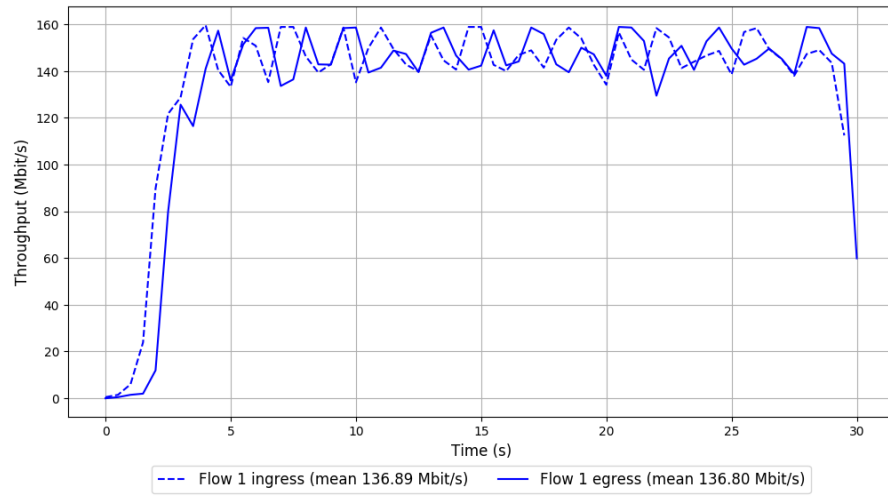


Run 3: Statistics of Indigo

Start at: 2019-08-27 05:31:07
End at: 2019-08-27 05:31:37
Local clock offset: 0.359 ms
Remote clock offset: -0.117 ms

Below is generated by plot.py at 2019-08-27 07:35:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 136.80 Mbit/s
95th percentile per-packet one-way delay: 134.085 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 136.80 Mbit/s
95th percentile per-packet one-way delay: 134.085 ms
Loss rate: 0.97%

Run 3: Report of Indigo — Data Link

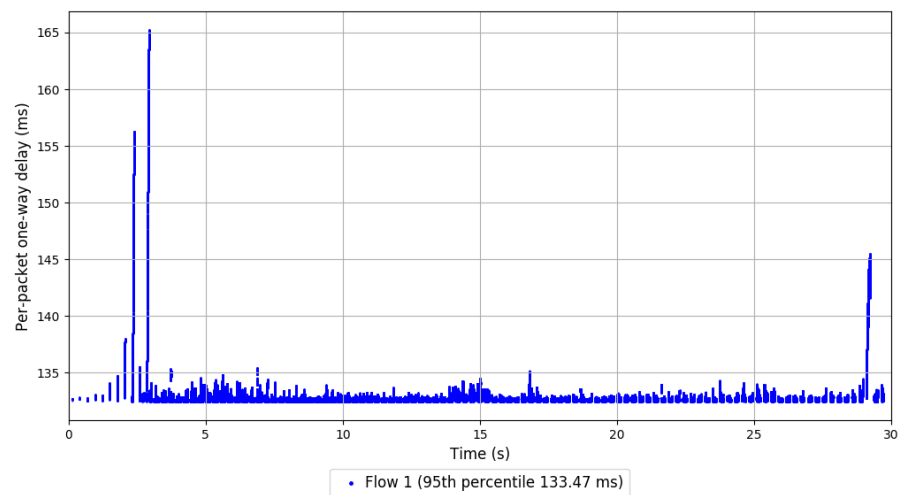
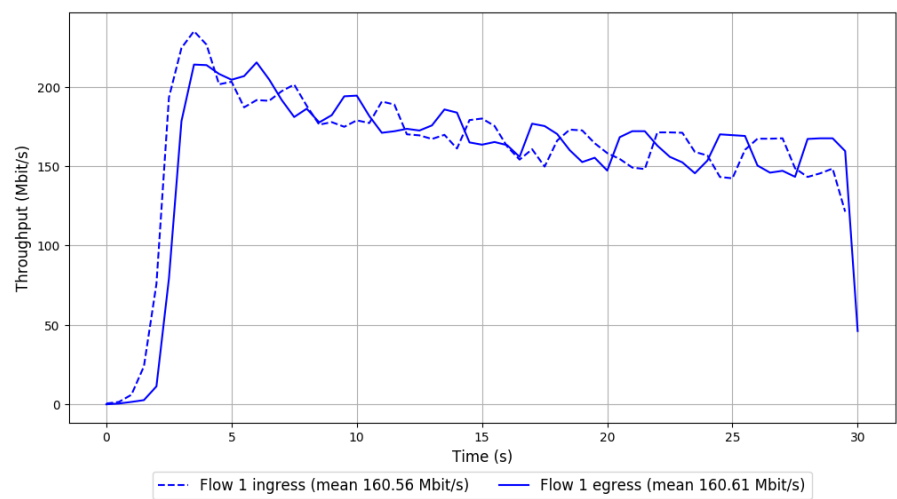


Run 4: Statistics of Indigo

Start at: 2019-08-27 06:06:58
End at: 2019-08-27 06:07:28
Local clock offset: -0.176 ms
Remote clock offset: -0.079 ms

Below is generated by plot.py at 2019-08-27 07:35:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 160.61 Mbit/s
95th percentile per-packet one-way delay: 133.472 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 160.61 Mbit/s
95th percentile per-packet one-way delay: 133.472 ms
Loss rate: 0.86%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-08-27 06:43:23

End at: 2019-08-27 06:43:53

Local clock offset: 0.051 ms

Remote clock offset: 0.121 ms

Below is generated by plot.py at 2019-08-27 07:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.13 Mbit/s

95th percentile per-packet one-way delay: 134.816 ms

Loss rate: 0.84%

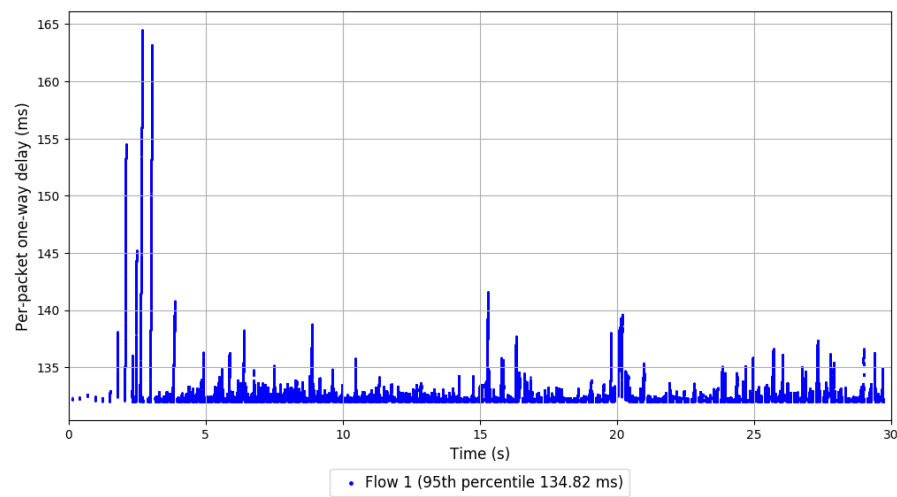
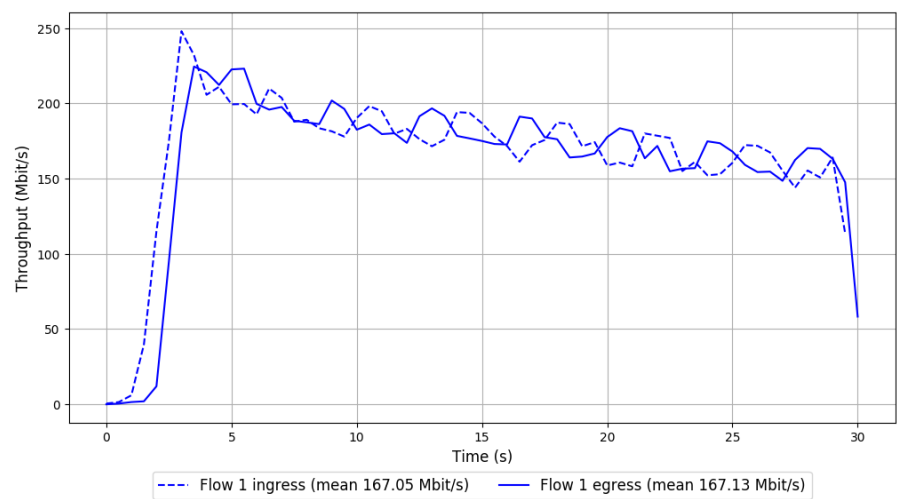
-- Flow 1:

Average throughput: 167.13 Mbit/s

95th percentile per-packet one-way delay: 134.816 ms

Loss rate: 0.84%

Run 5: Report of Indigo — Data Link

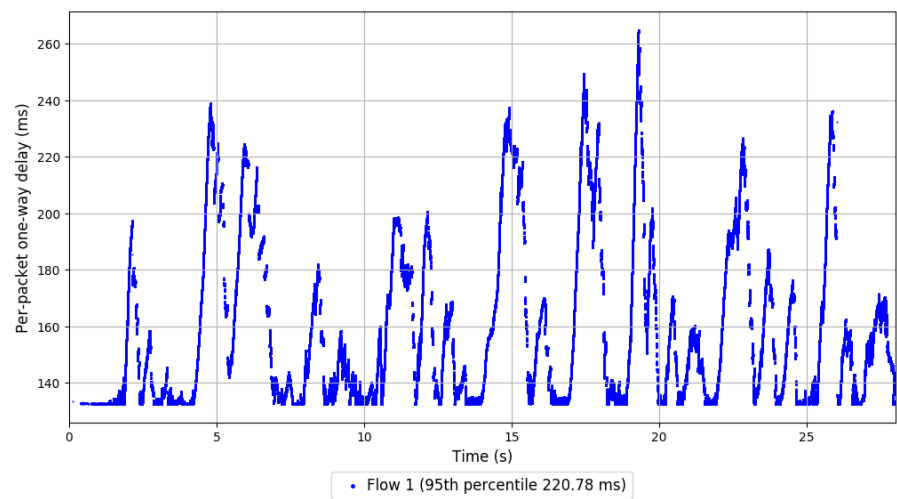
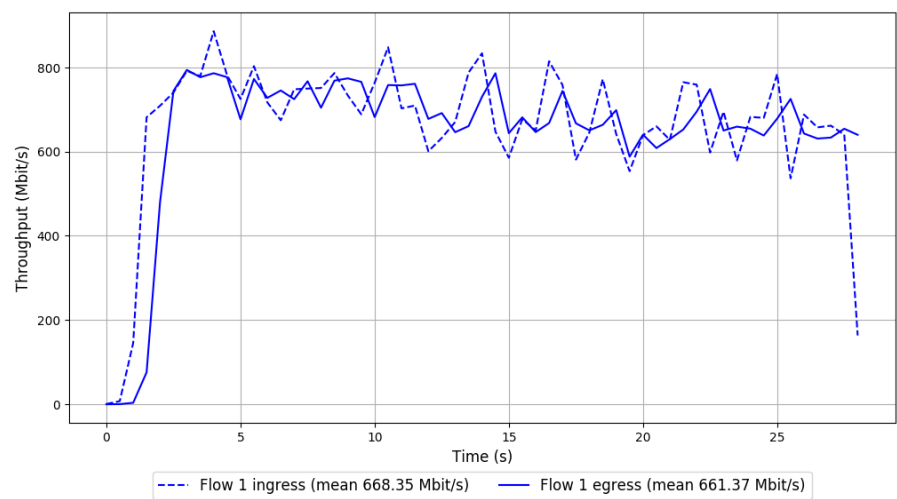


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-08-27 03:57:22
End at: 2019-08-27 03:57:52
Local clock offset: -0.139 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2019-08-27 07:35:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 661.37 Mbit/s
95th percentile per-packet one-way delay: 220.784 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 661.37 Mbit/s
95th percentile per-packet one-way delay: 220.784 ms
Loss rate: 1.98%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-08-27 04:32:46

End at: 2019-08-27 04:33:16

Local clock offset: -0.038 ms

Remote clock offset: 0.017 ms

Below is generated by plot.py at 2019-08-27 07:35:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 649.60 Mbit/s

95th percentile per-packet one-way delay: 216.960 ms

Loss rate: 1.70%

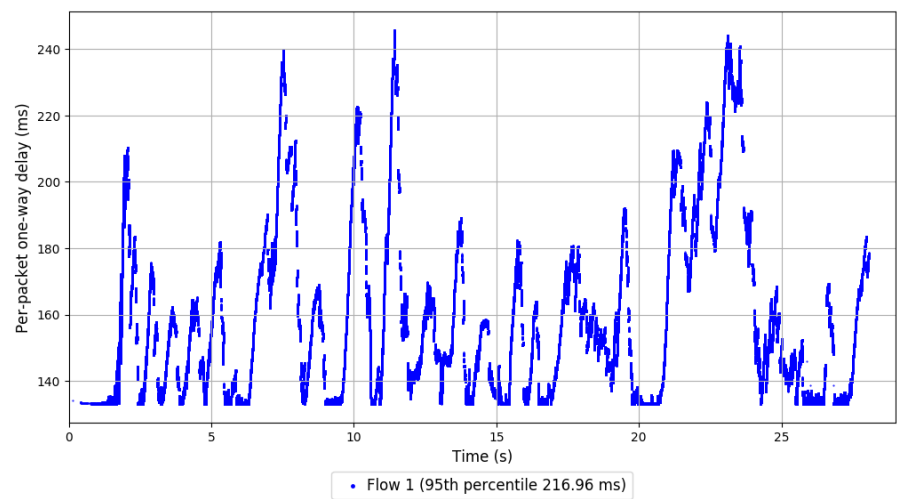
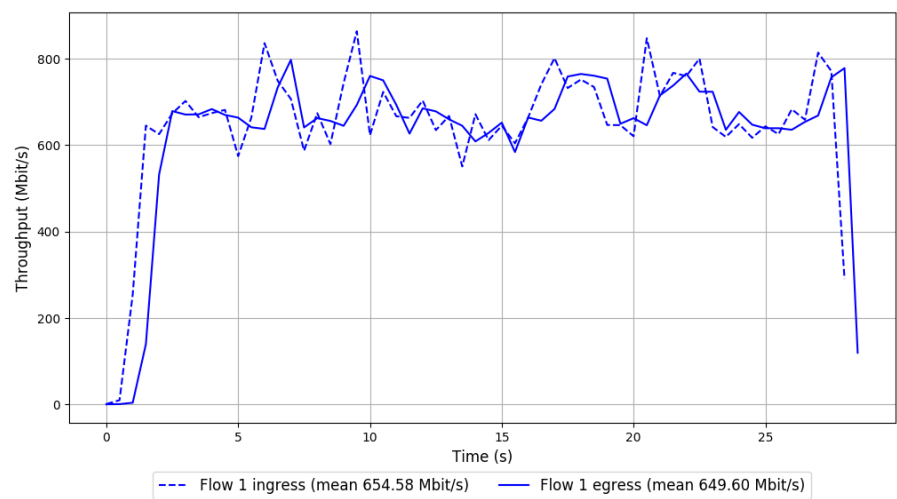
-- Flow 1:

Average throughput: 649.60 Mbit/s

95th percentile per-packet one-way delay: 216.960 ms

Loss rate: 1.70%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-08-27 05:08:55

End at: 2019-08-27 05:09:25

Local clock offset: -0.154 ms

Remote clock offset: -0.13 ms

Below is generated by plot.py at 2019-08-27 07:37:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 667.85 Mbit/s

95th percentile per-packet one-way delay: 220.663 ms

Loss rate: 1.60%

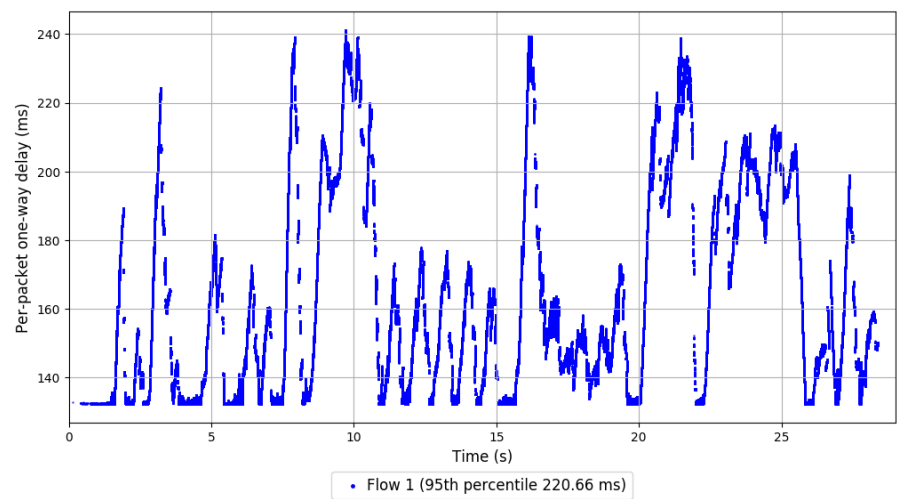
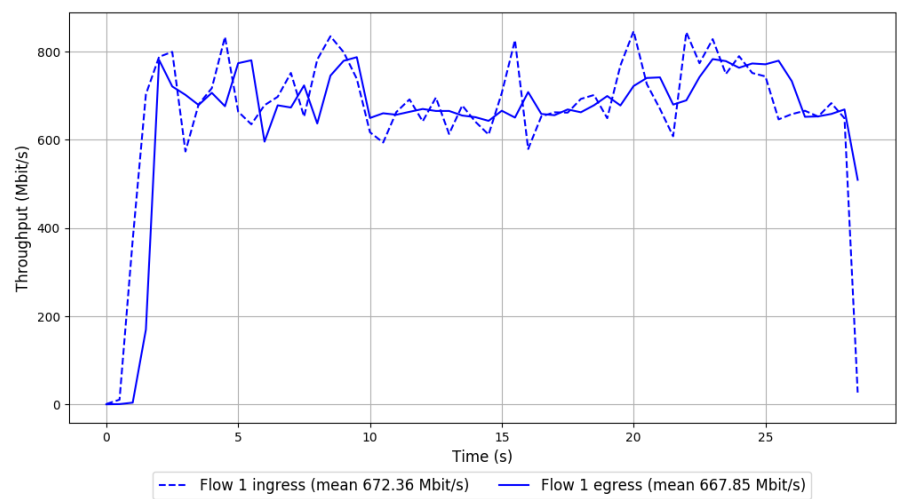
-- Flow 1:

Average throughput: 667.85 Mbit/s

95th percentile per-packet one-way delay: 220.663 ms

Loss rate: 1.60%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-08-27 05:44:31

End at: 2019-08-27 05:45:01

Local clock offset: -0.371 ms

Remote clock offset: -0.14 ms

Below is generated by plot.py at 2019-08-27 07:37:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 666.49 Mbit/s

95th percentile per-packet one-way delay: 228.226 ms

Loss rate: 2.86%

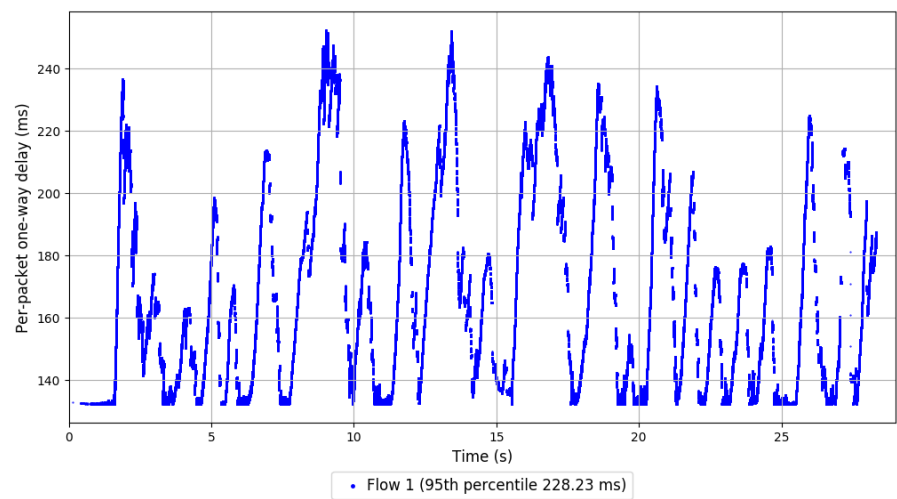
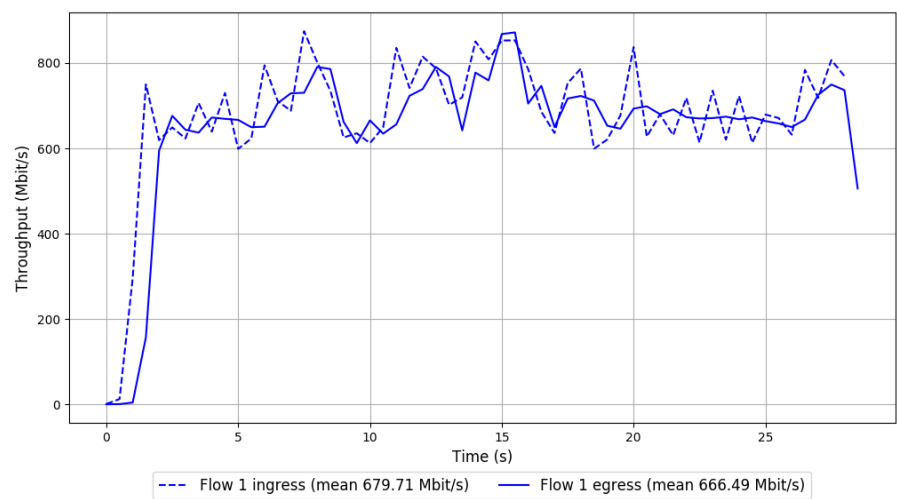
-- Flow 1:

Average throughput: 666.49 Mbit/s

95th percentile per-packet one-way delay: 228.226 ms

Loss rate: 2.86%

Run 4: Report of Indigo-MusesC3 — Data Link

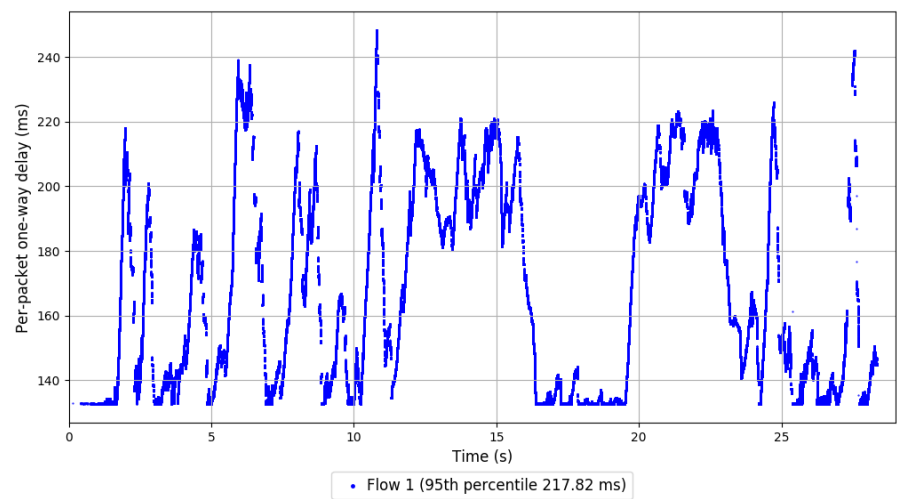
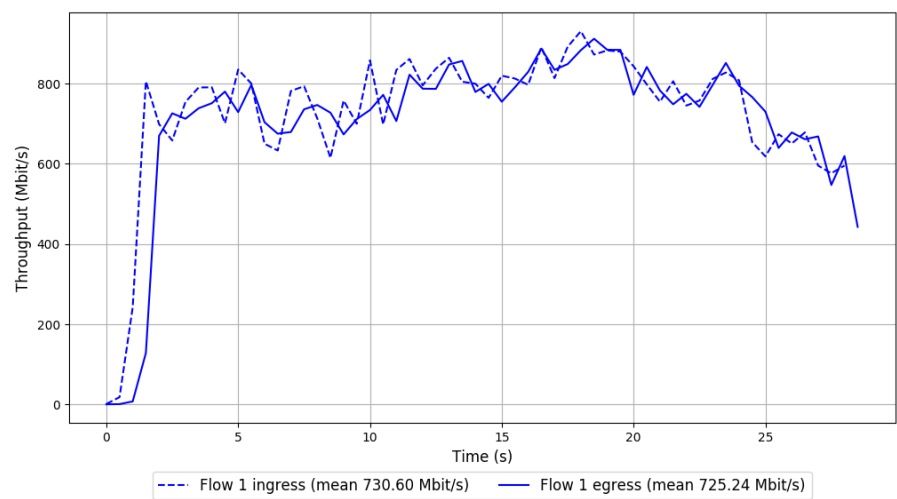


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-08-27 06:21:00
End at: 2019-08-27 06:21:30
Local clock offset: -0.155 ms
Remote clock offset: -0.183 ms

Below is generated by plot.py at 2019-08-27 07:39:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 725.24 Mbit/s
95th percentile per-packet one-way delay: 217.820 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 725.24 Mbit/s
95th percentile per-packet one-way delay: 217.820 ms
Loss rate: 1.66%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-08-27 04:09:17

End at: 2019-08-27 04:09:47

Local clock offset: -0.074 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2019-08-27 07:39:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 629.88 Mbit/s

95th percentile per-packet one-way delay: 211.493 ms

Loss rate: 0.96%

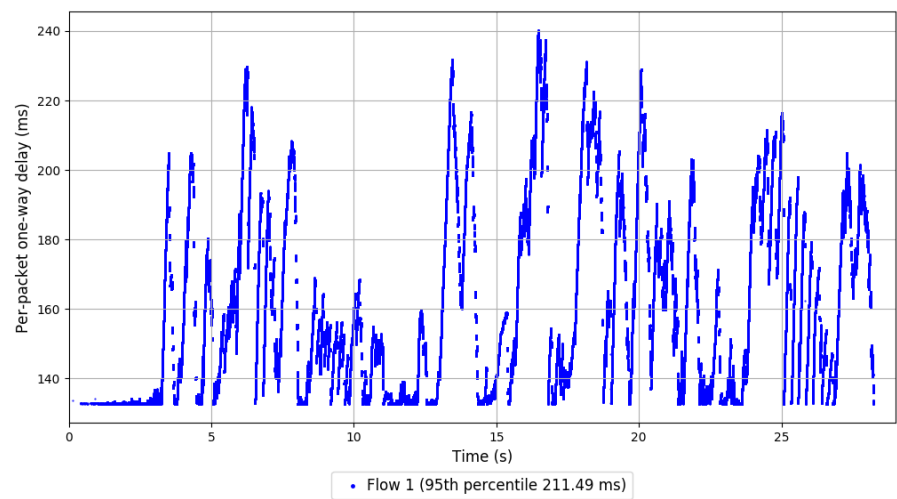
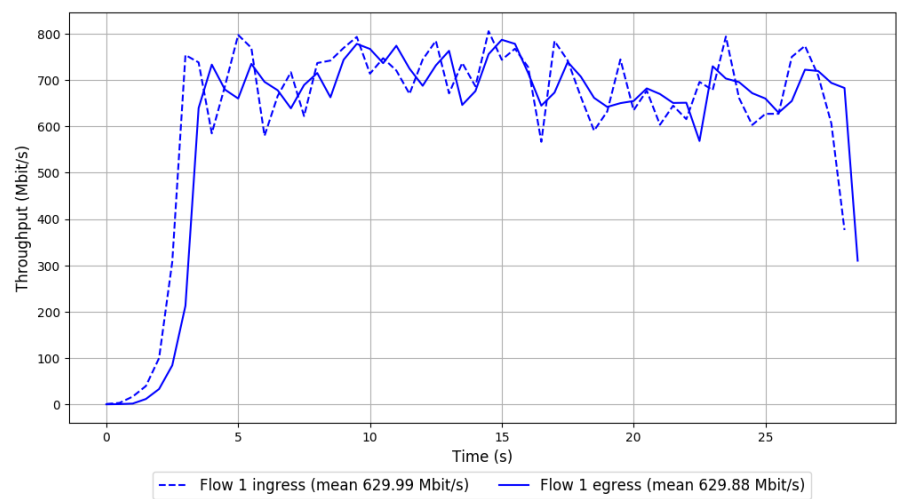
-- Flow 1:

Average throughput: 629.88 Mbit/s

95th percentile per-packet one-way delay: 211.493 ms

Loss rate: 0.96%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-08-27 04:44:54

End at: 2019-08-27 04:45:24

Local clock offset: 0.098 ms

Remote clock offset: -0.122 ms

Below is generated by plot.py at 2019-08-27 07:43:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 604.80 Mbit/s

95th percentile per-packet one-way delay: 207.610 ms

Loss rate: 1.65%

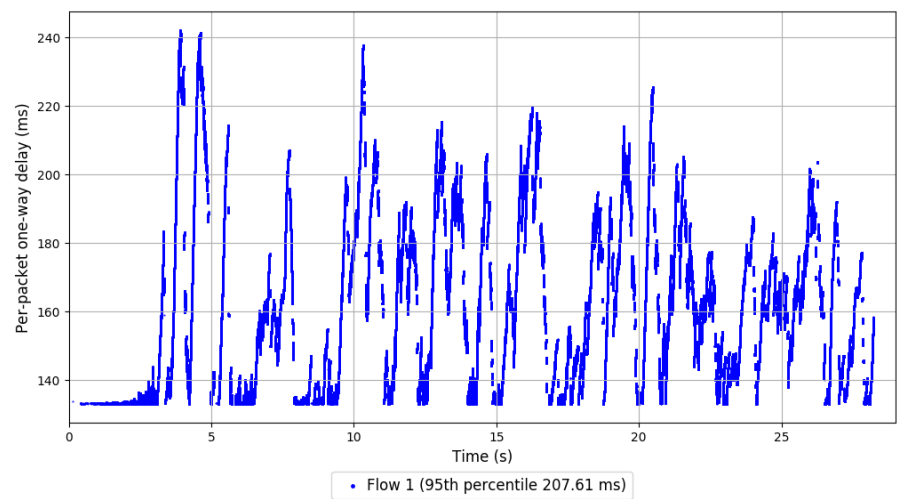
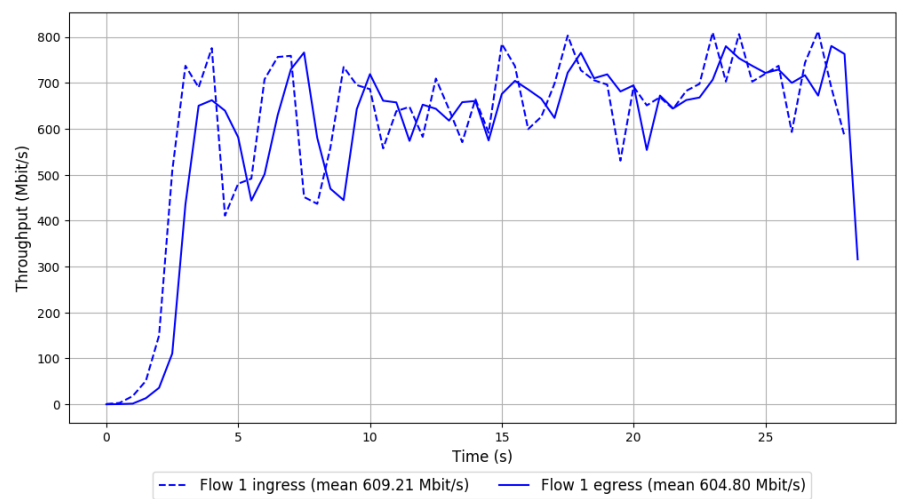
-- Flow 1:

Average throughput: 604.80 Mbit/s

95th percentile per-packet one-way delay: 207.610 ms

Loss rate: 1.65%

Run 2: Report of Indigo-MusesC5 — Data Link

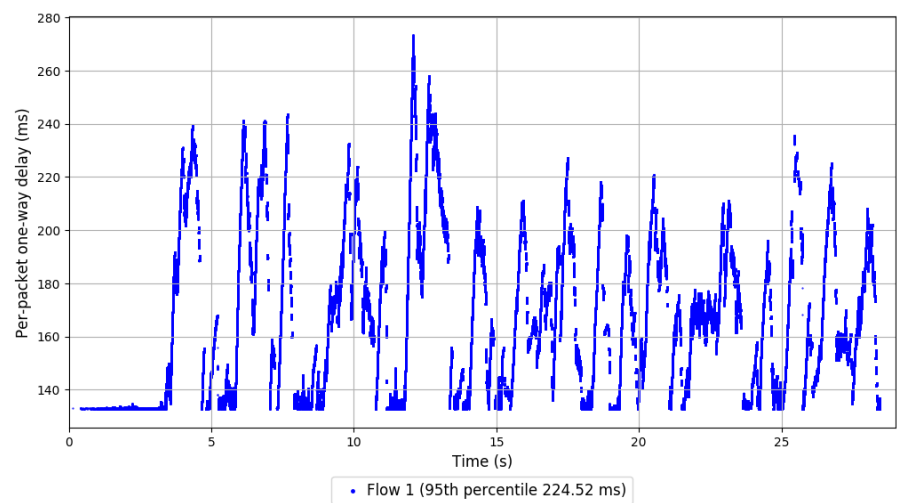
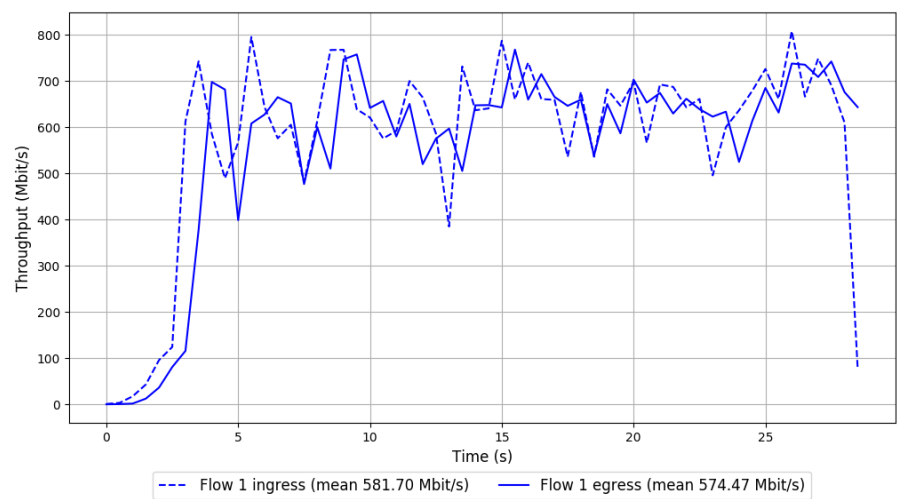


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-08-27 05:21:04
End at: 2019-08-27 05:21:34
Local clock offset: -0.139 ms
Remote clock offset: -0.126 ms

Below is generated by plot.py at 2019-08-27 07:43:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 574.47 Mbit/s
95th percentile per-packet one-way delay: 224.516 ms
Loss rate: 2.16%
-- Flow 1:
Average throughput: 574.47 Mbit/s
95th percentile per-packet one-way delay: 224.516 ms
Loss rate: 2.16%

Run 3: Report of Indigo-MusesC5 — Data Link

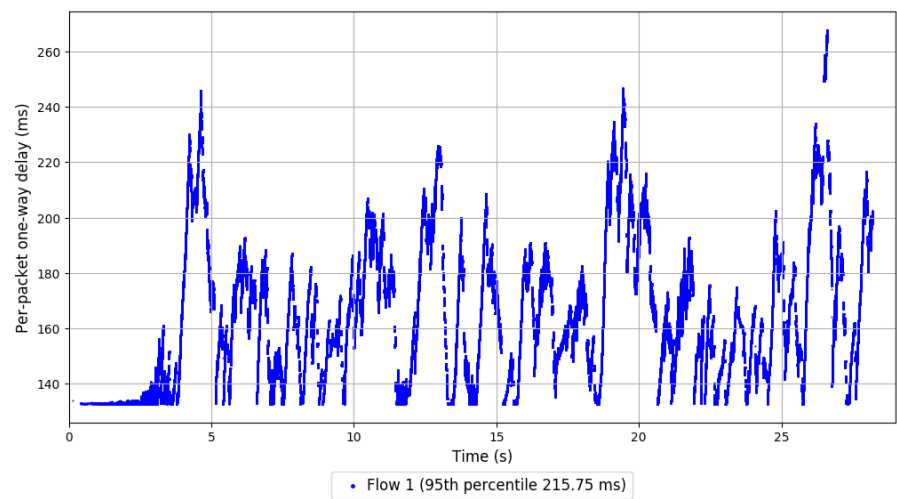
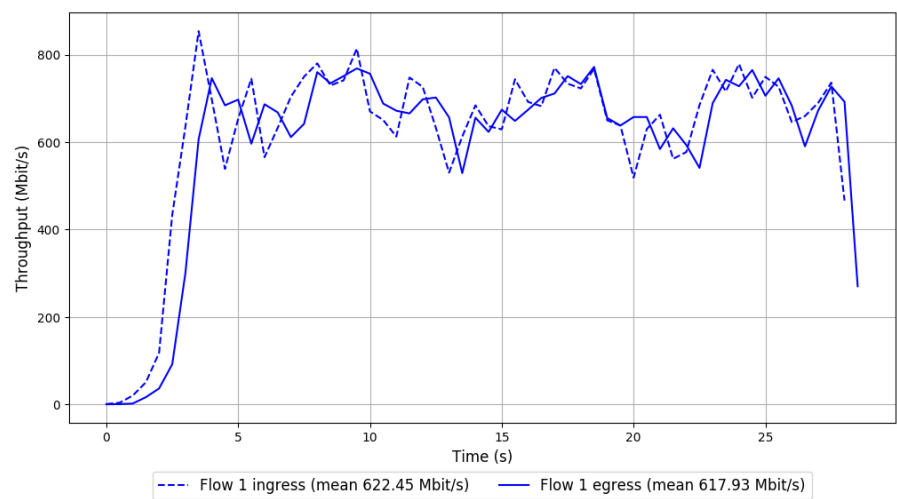


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-08-27 05:56:49
End at: 2019-08-27 05:57:19
Local clock offset: -0.048 ms
Remote clock offset: -0.167 ms

Below is generated by plot.py at 2019-08-27 07:44:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 617.93 Mbit/s
95th percentile per-packet one-way delay: 215.751 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 617.93 Mbit/s
95th percentile per-packet one-way delay: 215.751 ms
Loss rate: 1.67%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-08-27 06:33:06

End at: 2019-08-27 06:33:36

Local clock offset: 0.168 ms

Remote clock offset: -0.17 ms

Below is generated by plot.py at 2019-08-27 07:44:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 593.61 Mbit/s

95th percentile per-packet one-way delay: 215.465 ms

Loss rate: 1.54%

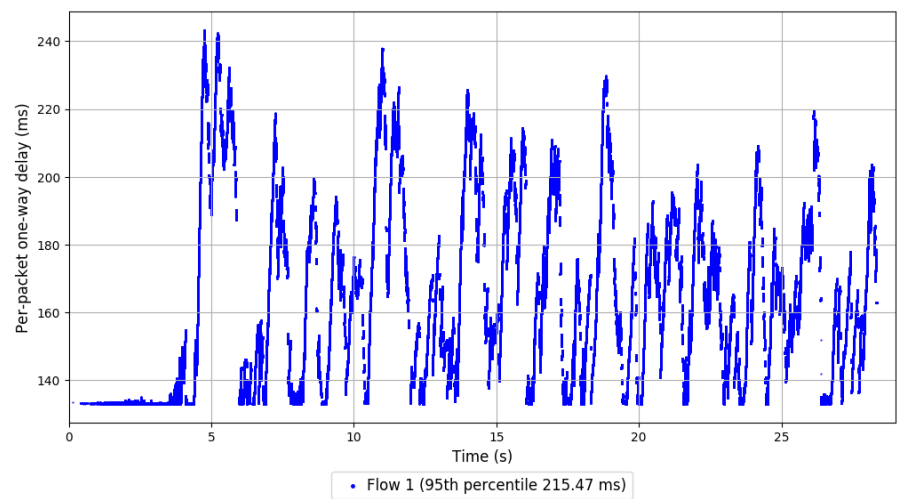
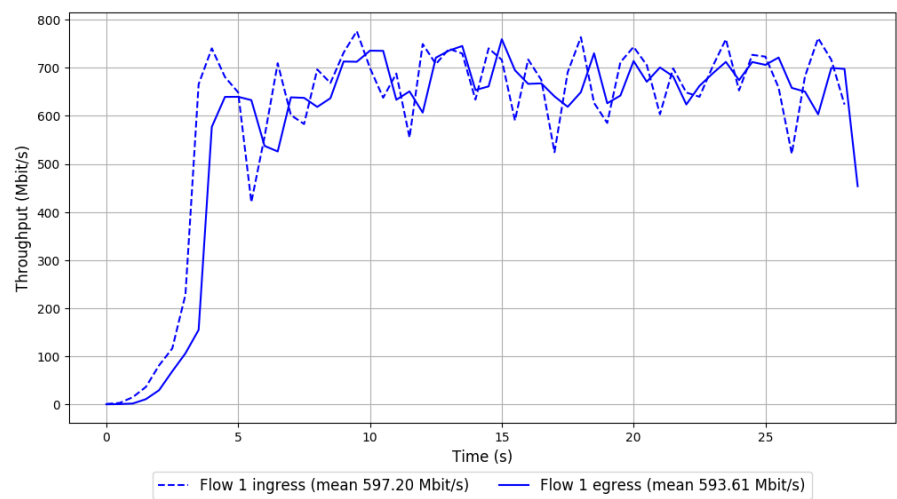
-- Flow 1:

Average throughput: 593.61 Mbit/s

95th percentile per-packet one-way delay: 215.465 ms

Loss rate: 1.54%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-08-27 04:04:42

End at: 2019-08-27 04:05:12

Local clock offset: 0.266 ms

Remote clock offset: -0.027 ms

Below is generated by plot.py at 2019-08-27 07:45:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 568.01 Mbit/s

95th percentile per-packet one-way delay: 218.182 ms

Loss rate: 1.19%

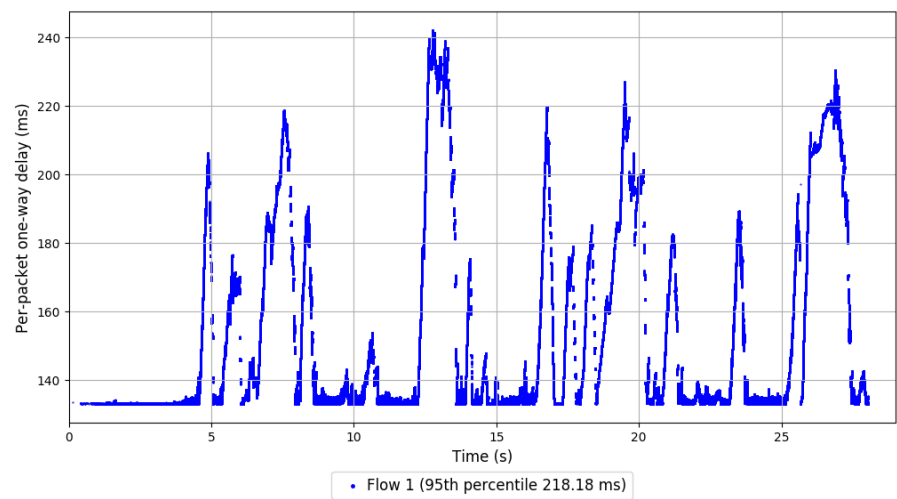
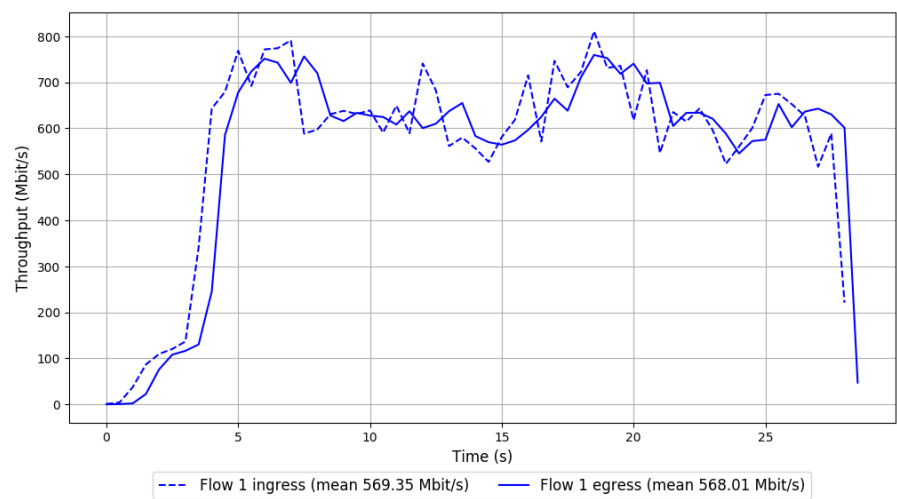
-- Flow 1:

Average throughput: 568.01 Mbit/s

95th percentile per-packet one-way delay: 218.182 ms

Loss rate: 1.19%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-08-27 04:40:20

End at: 2019-08-27 04:40:50

Local clock offset: 0.054 ms

Remote clock offset: -0.09 ms

Below is generated by plot.py at 2019-08-27 07:45:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 555.72 Mbit/s

95th percentile per-packet one-way delay: 226.854 ms

Loss rate: 1.79%

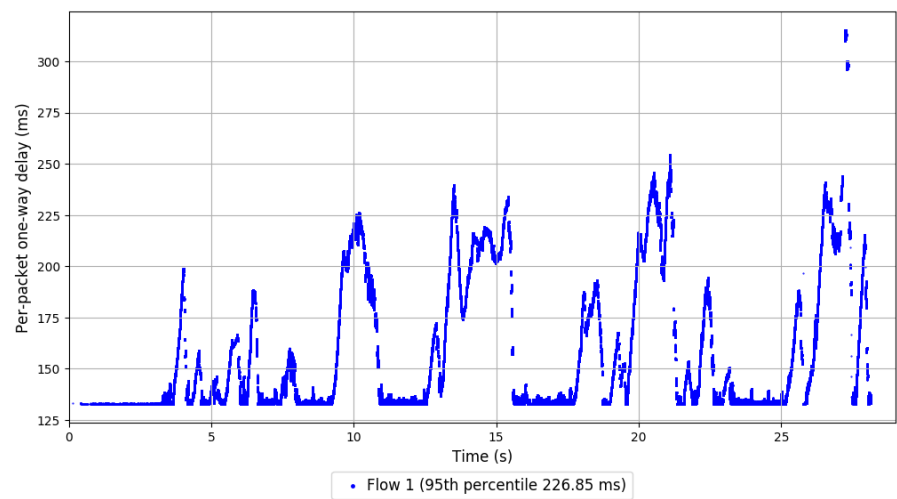
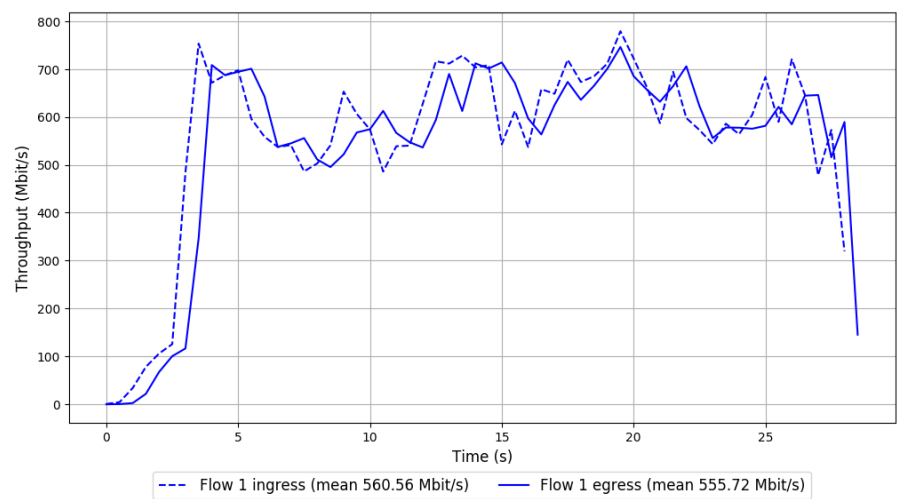
-- Flow 1:

Average throughput: 555.72 Mbit/s

95th percentile per-packet one-way delay: 226.854 ms

Loss rate: 1.79%

Run 2: Report of Indigo-MusesD — Data Link

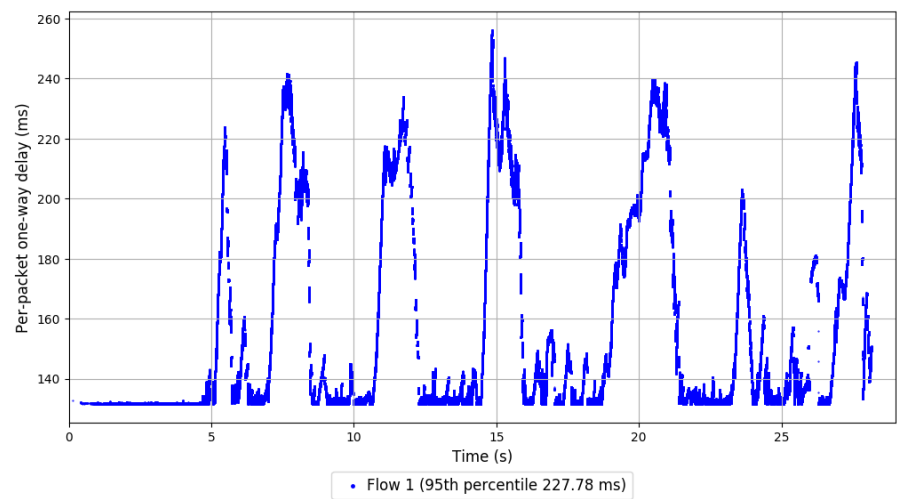
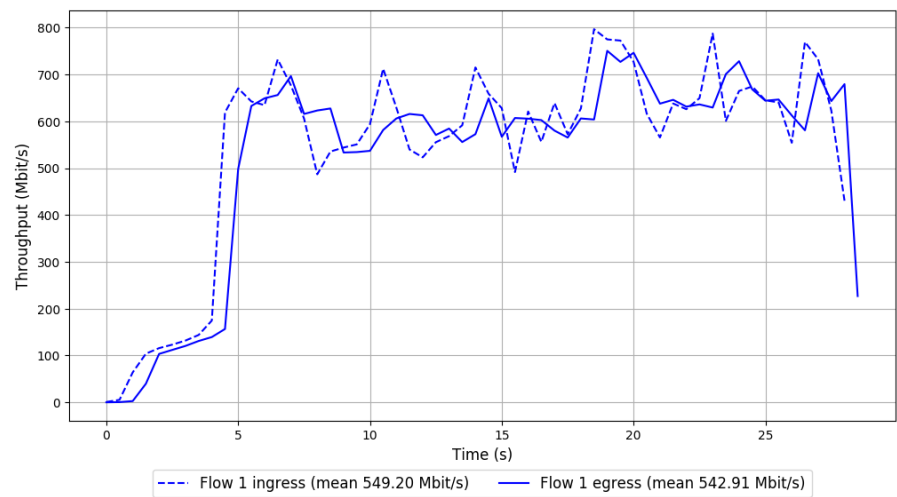


Run 3: Statistics of Indigo-MusesD

Start at: 2019-08-27 05:16:29
End at: 2019-08-27 05:16:59
Local clock offset: -0.544 ms
Remote clock offset: -0.127 ms

Below is generated by plot.py at 2019-08-27 07:47:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 542.91 Mbit/s
95th percentile per-packet one-way delay: 227.779 ms
Loss rate: 2.08%
-- Flow 1:
Average throughput: 542.91 Mbit/s
95th percentile per-packet one-way delay: 227.779 ms
Loss rate: 2.08%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-08-27 05:52:12

End at: 2019-08-27 05:52:42

Local clock offset: -0.161 ms

Remote clock offset: -0.168 ms

Below is generated by plot.py at 2019-08-27 07:48:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 618.36 Mbit/s

95th percentile per-packet one-way delay: 228.543 ms

Loss rate: 2.54%

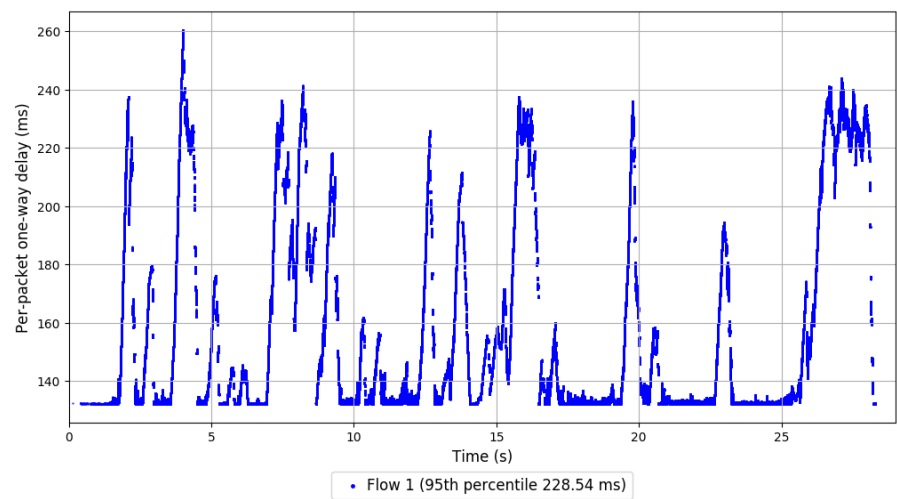
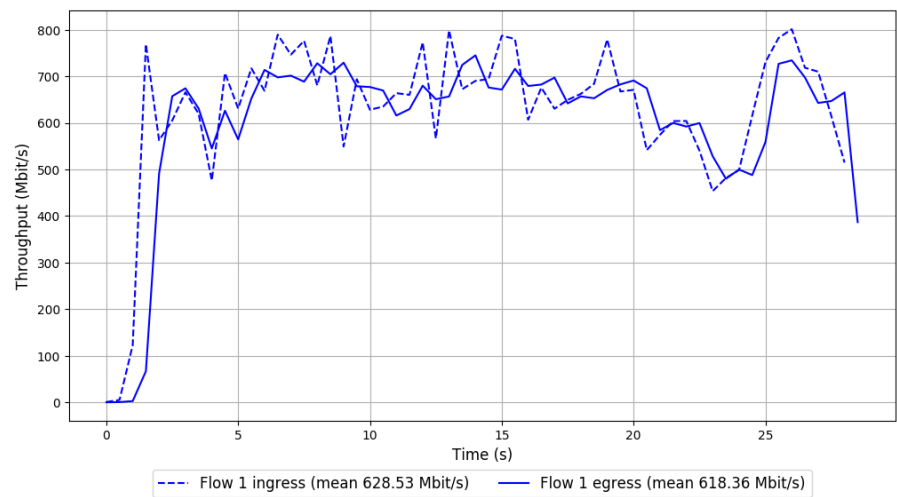
-- Flow 1:

Average throughput: 618.36 Mbit/s

95th percentile per-packet one-way delay: 228.543 ms

Loss rate: 2.54%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-08-27 06:28:32

End at: 2019-08-27 06:29:02

Local clock offset: 0.39 ms

Remote clock offset: -0.194 ms

Below is generated by plot.py at 2019-08-27 07:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 529.89 Mbit/s

95th percentile per-packet one-way delay: 217.470 ms

Loss rate: 2.28%

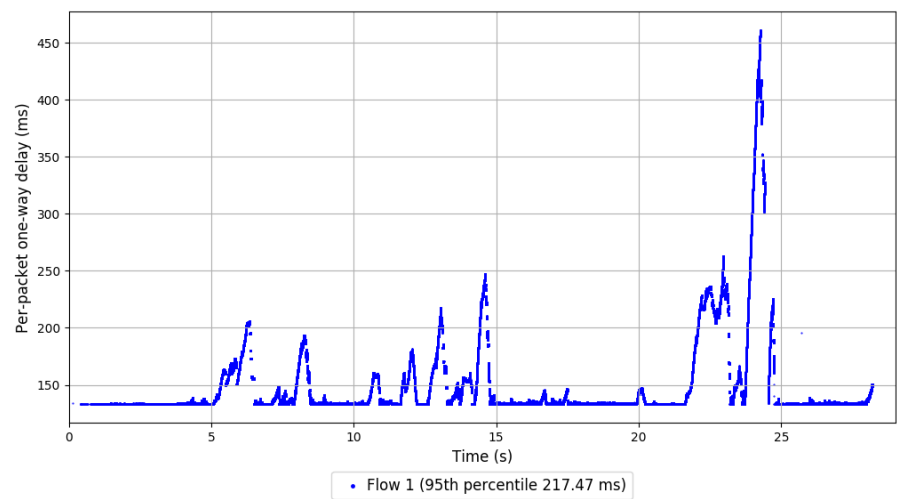
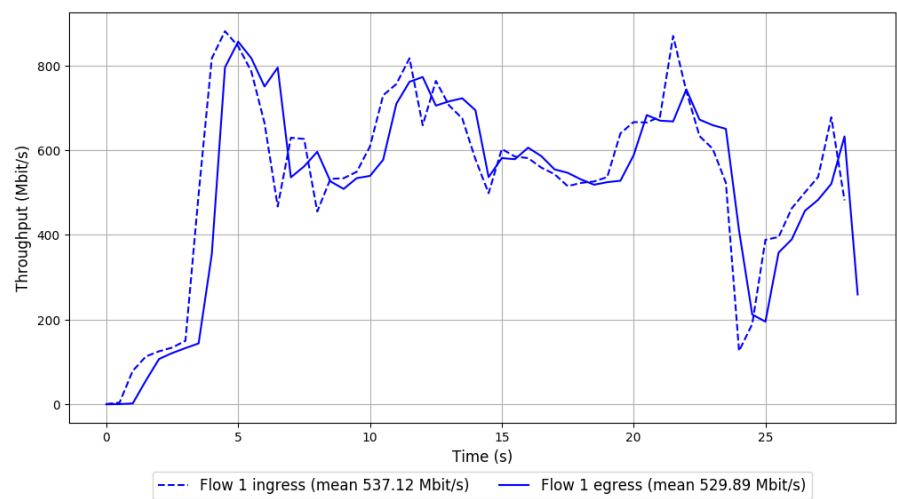
-- Flow 1:

Average throughput: 529.89 Mbit/s

95th percentile per-packet one-way delay: 217.470 ms

Loss rate: 2.28%

Run 5: Report of Indigo-MusesD — Data Link

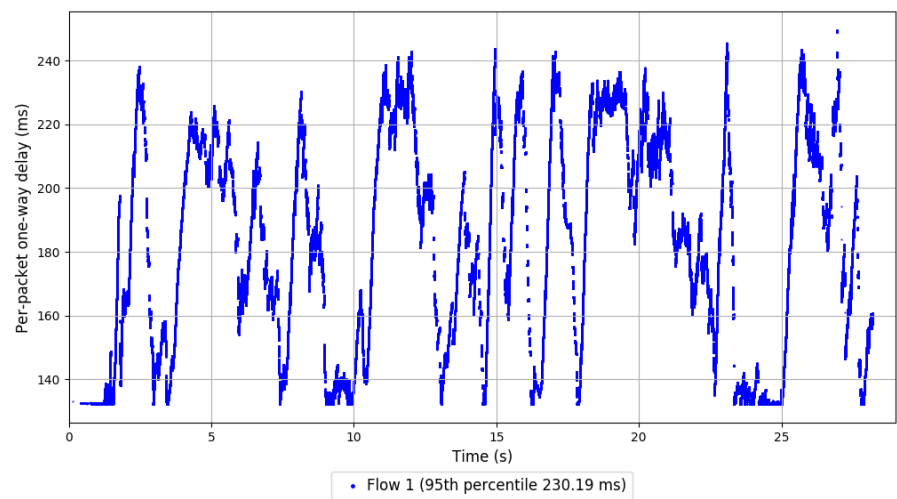
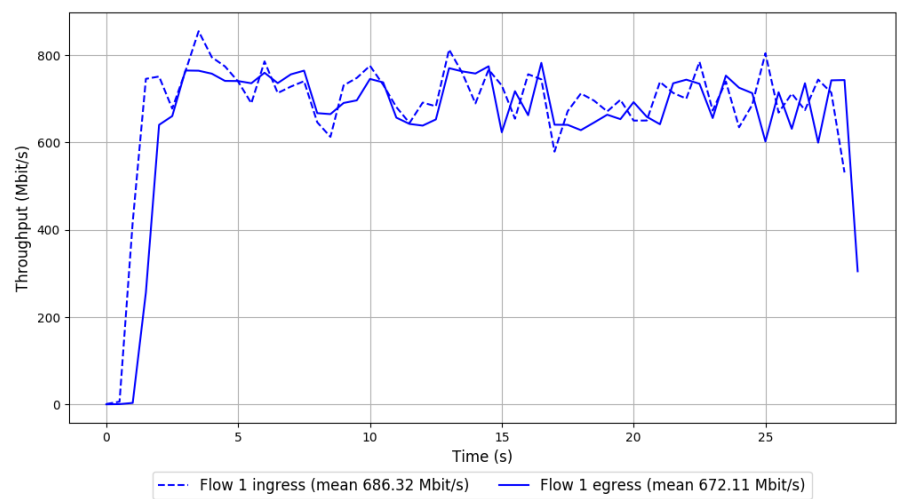


```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-08-27 04:07:35
End at: 2019-08-27 04:08:05
Local clock offset: -0.535 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2019-08-27 07:53:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 672.11 Mbit/s
95th percentile per-packet one-way delay: 230.191 ms
Loss rate: 2.99%
-- Flow 1:
Average throughput: 672.11 Mbit/s
95th percentile per-packet one-way delay: 230.191 ms
Loss rate: 2.99%
```

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-08-27 04:43:12

End at: 2019-08-27 04:43:42

Local clock offset: 0.33 ms

Remote clock offset: 0.232 ms

Below is generated by plot.py at 2019-08-27 07:53:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 670.33 Mbit/s

95th percentile per-packet one-way delay: 230.351 ms

Loss rate: 2.60%

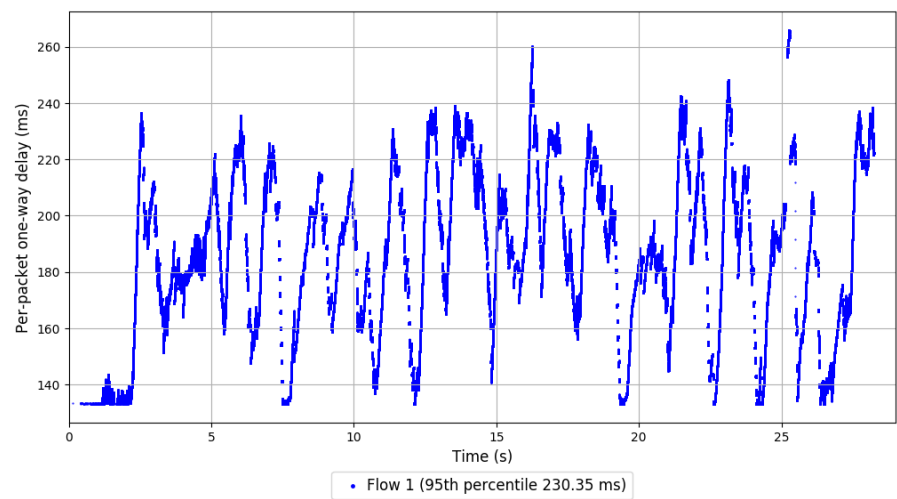
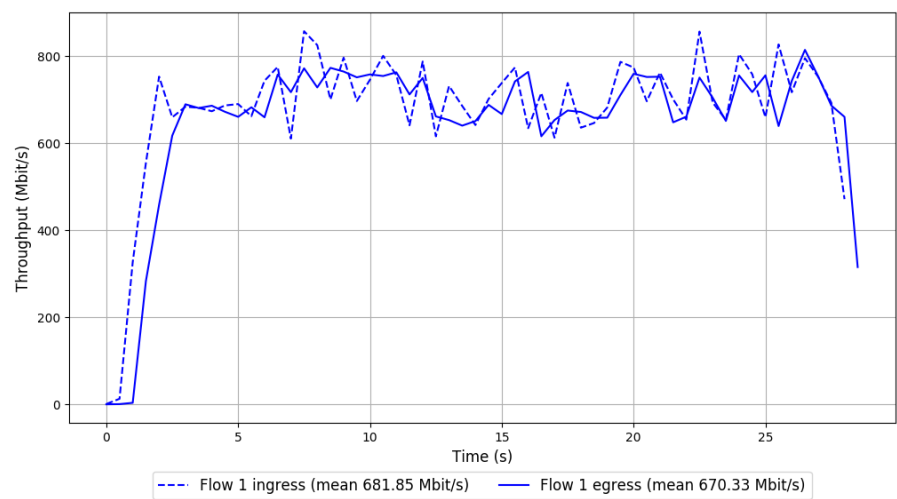
-- Flow 1:

Average throughput: 670.33 Mbit/s

95th percentile per-packet one-way delay: 230.351 ms

Loss rate: 2.60%

Run 2: Report of Indigo-MusesT — Data Link

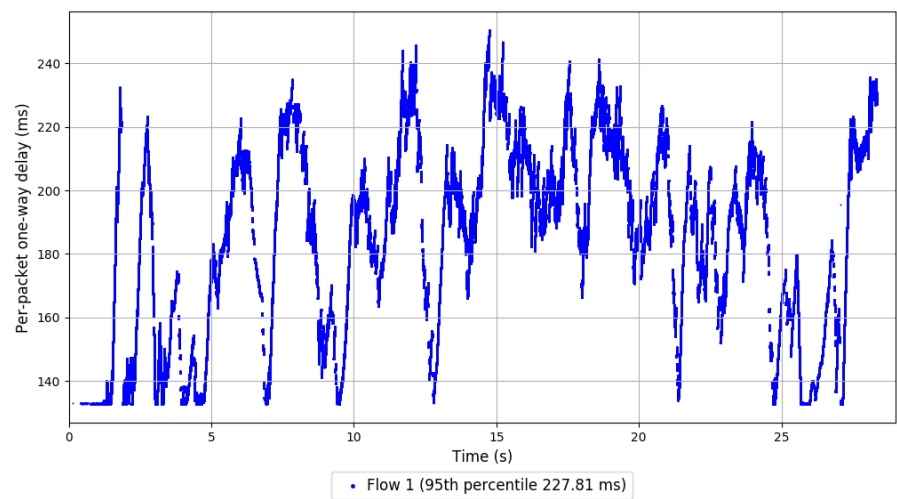
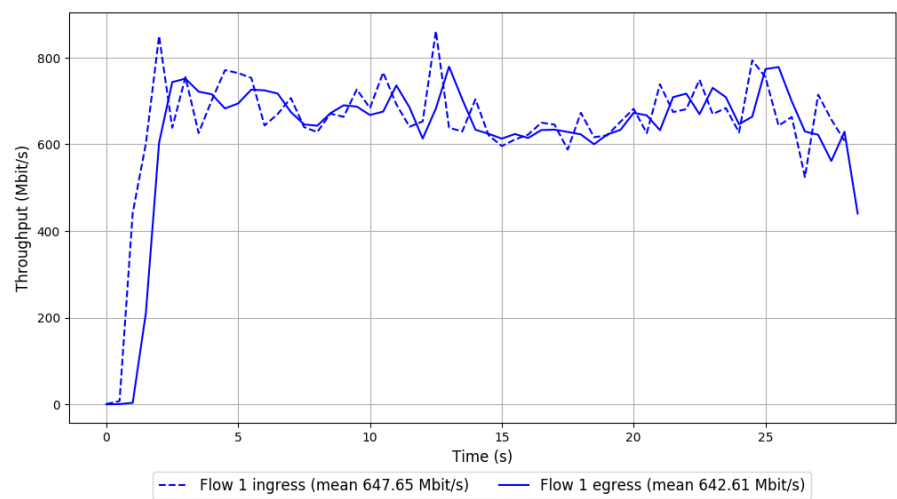


Run 3: Statistics of Indigo-MusesT

Start at: 2019-08-27 05:19:21
End at: 2019-08-27 05:19:51
Local clock offset: -0.097 ms
Remote clock offset: -0.068 ms

Below is generated by plot.py at 2019-08-27 07:53:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 642.61 Mbit/s
95th percentile per-packet one-way delay: 227.815 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 642.61 Mbit/s
95th percentile per-packet one-way delay: 227.815 ms
Loss rate: 1.71%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-08-27 05:55:07

End at: 2019-08-27 05:55:37

Local clock offset: 0.058 ms

Remote clock offset: -0.135 ms

Below is generated by plot.py at 2019-08-27 07:54:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 656.96 Mbit/s

95th percentile per-packet one-way delay: 230.809 ms

Loss rate: 3.72%

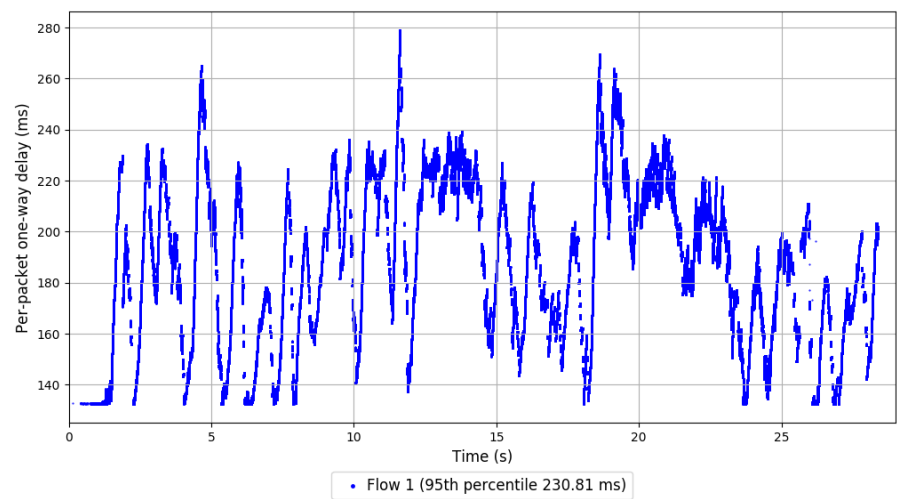
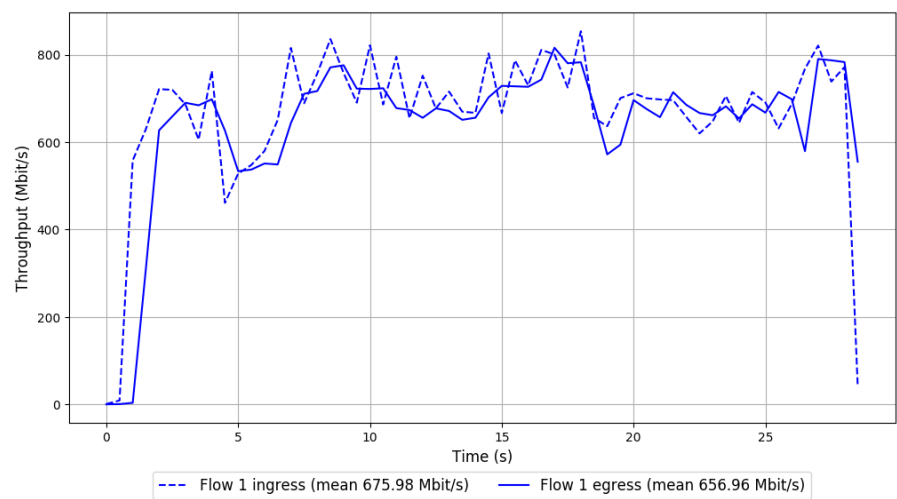
-- Flow 1:

Average throughput: 656.96 Mbit/s

95th percentile per-packet one-way delay: 230.809 ms

Loss rate: 3.72%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-08-27 06:31:23

End at: 2019-08-27 06:31:53

Local clock offset: 0.423 ms

Remote clock offset: -0.182 ms

Below is generated by plot.py at 2019-08-27 07:54:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 664.85 Mbit/s

95th percentile per-packet one-way delay: 227.347 ms

Loss rate: 2.58%

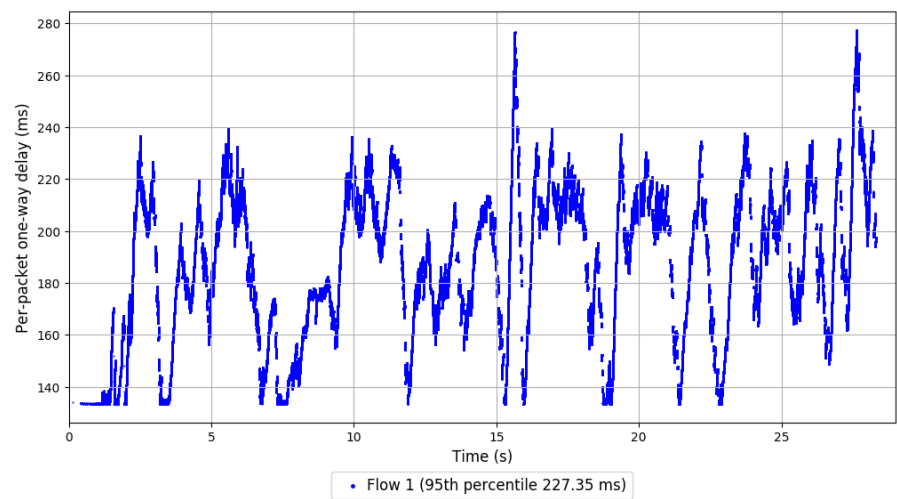
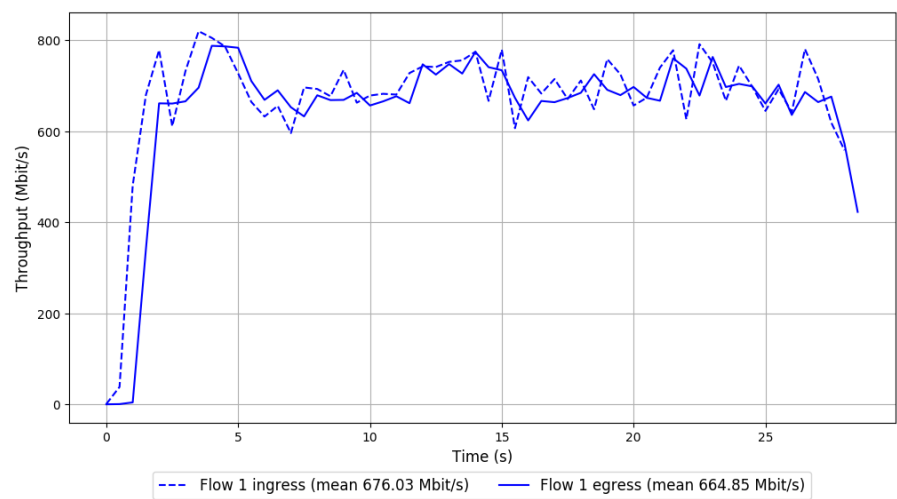
-- Flow 1:

Average throughput: 664.85 Mbit/s

95th percentile per-packet one-way delay: 227.347 ms

Loss rate: 2.58%

Run 5: Report of Indigo-MusesT — Data Link

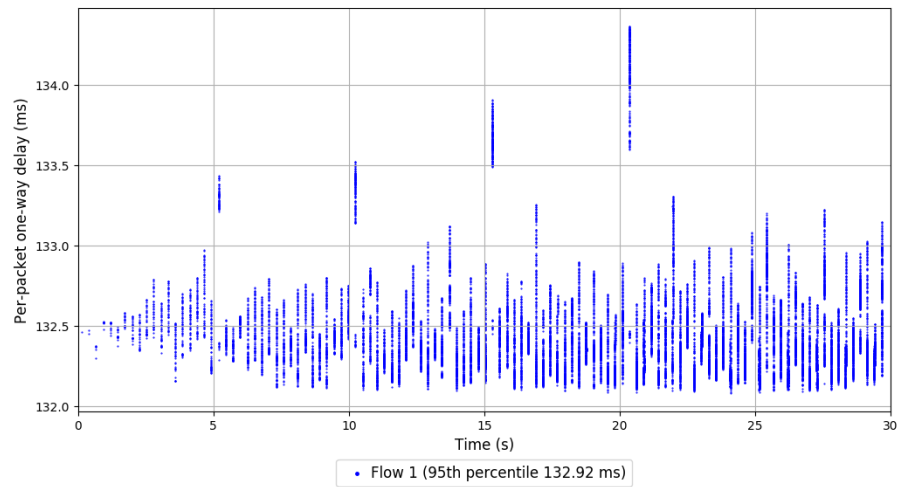
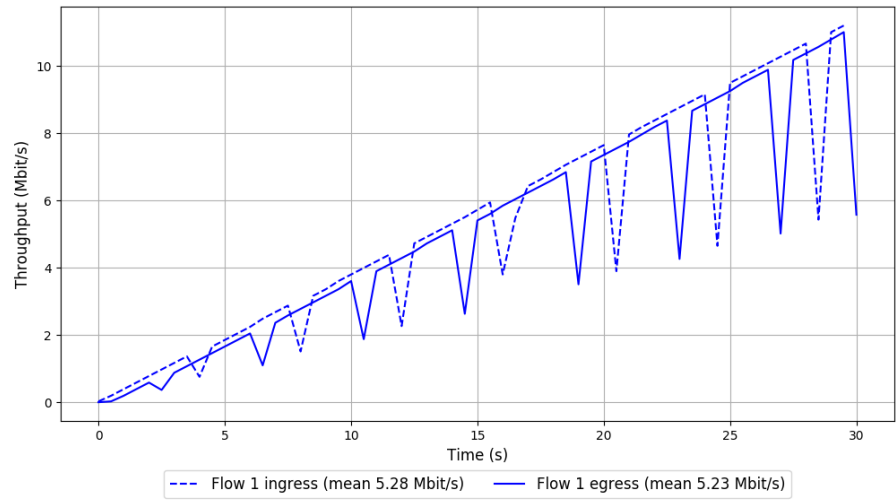


Run 1: Statistics of LEDBAT

Start at: 2019-08-27 04:00:31
End at: 2019-08-27 04:01:01
Local clock offset: -0.118 ms
Remote clock offset: -0.007 ms

Below is generated by plot.py at 2019-08-27 07:54:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 132.918 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 132.918 ms
Loss rate: 1.79%

Run 1: Report of LEDBAT — Data Link

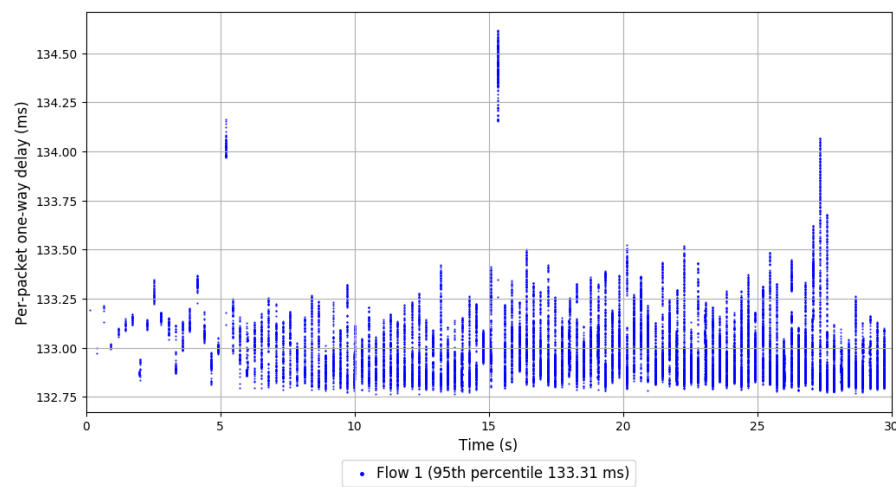
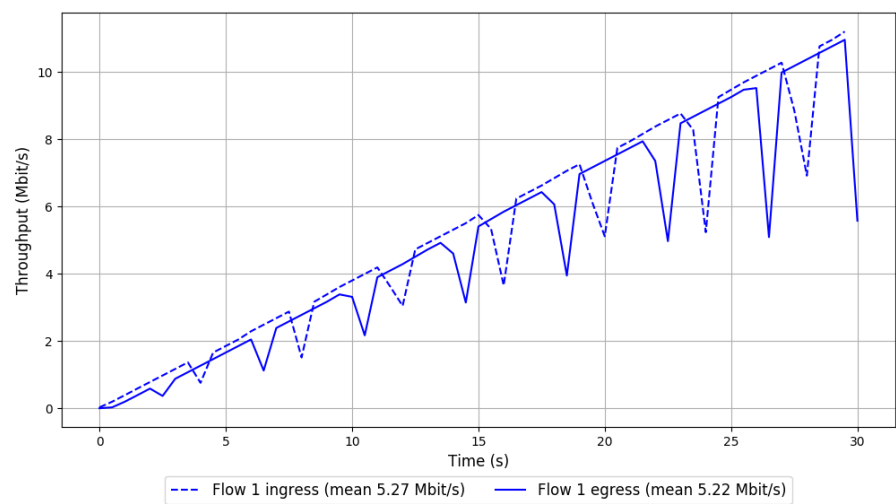


Run 2: Statistics of LEDBAT

Start at: 2019-08-27 04:35:56
End at: 2019-08-27 04:36:26
Local clock offset: -0.083 ms
Remote clock offset: -0.113 ms

Below is generated by plot.py at 2019-08-27 07:54:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 133.312 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 133.312 ms
Loss rate: 1.79%

Run 2: Report of LEDBAT — Data Link

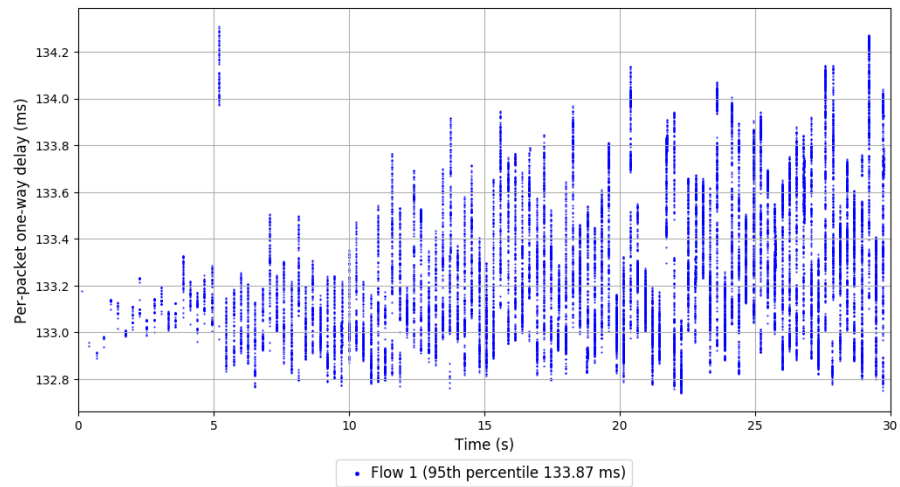
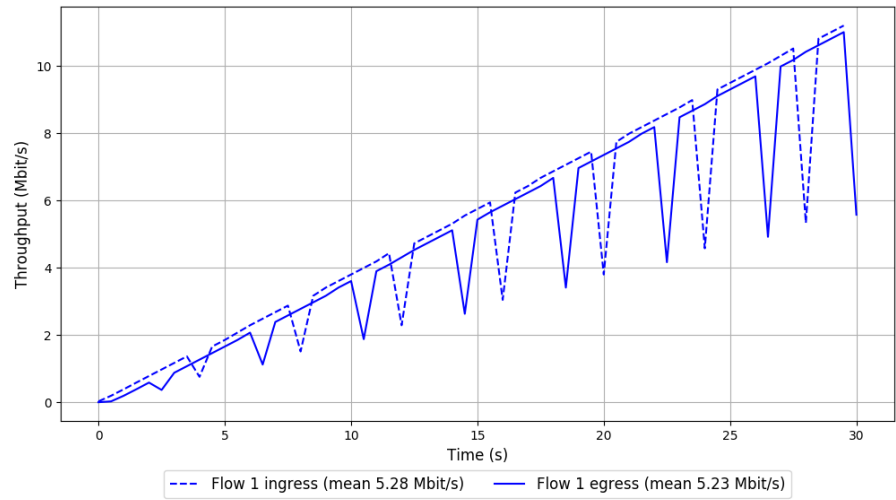


Run 3: Statistics of LEDBAT

Start at: 2019-08-27 05:12:05
End at: 2019-08-27 05:12:35
Local clock offset: -0.111 ms
Remote clock offset: -0.109 ms

Below is generated by plot.py at 2019-08-27 07:54:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 133.865 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 133.865 ms
Loss rate: 1.78%

Run 3: Report of LEDBAT — Data Link

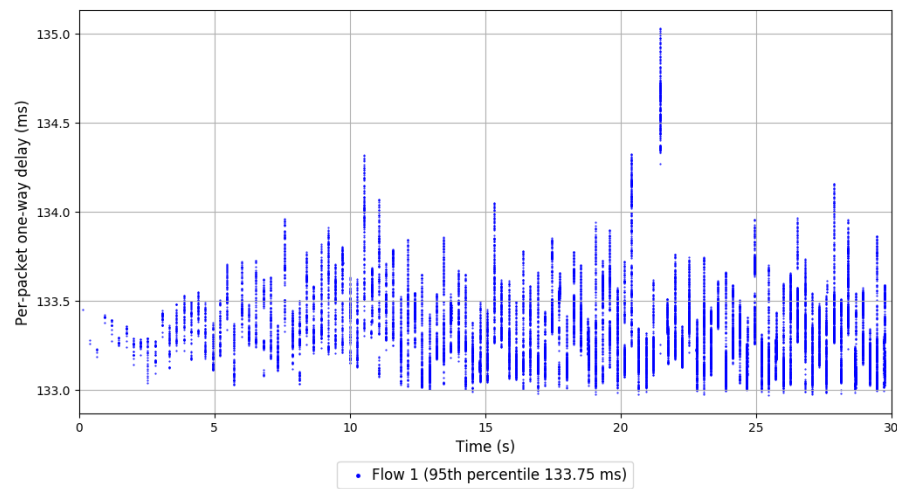
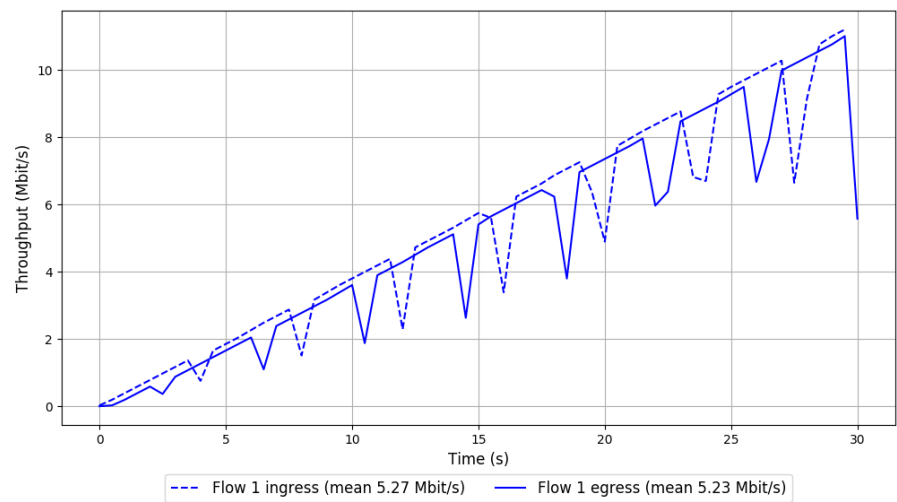


Run 4: Statistics of LEDBAT

Start at: 2019-08-27 05:47:44
End at: 2019-08-27 05:48:14
Local clock offset: 0.145 ms
Remote clock offset: -0.098 ms

Below is generated by plot.py at 2019-08-27 07:54:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 133.751 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 133.751 ms
Loss rate: 1.79%

Run 4: Report of LEDBAT — Data Link

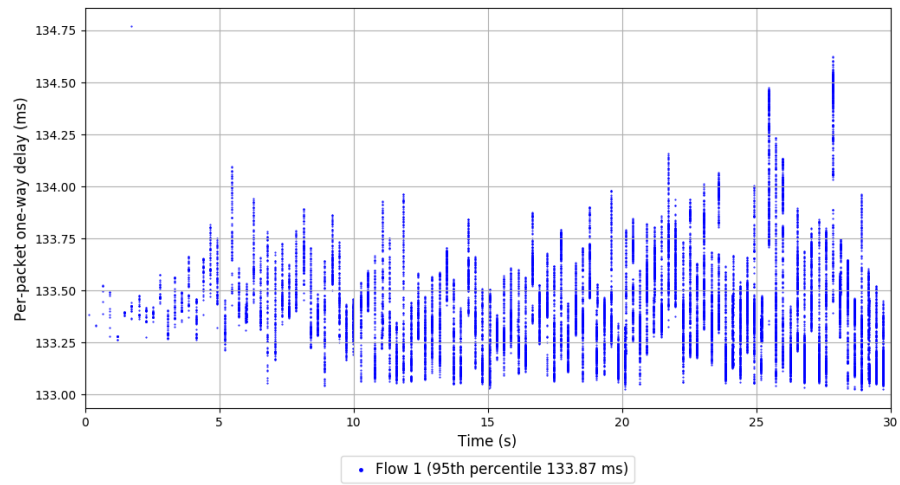
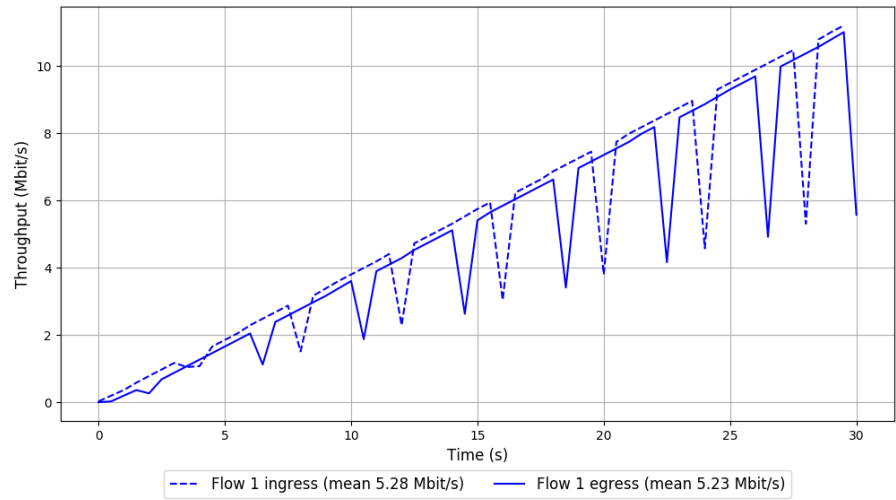


Run 5: Statistics of LEDBAT

Start at: 2019-08-27 06:24:15
End at: 2019-08-27 06:24:45
Local clock offset: 0.336 ms
Remote clock offset: -0.184 ms

Below is generated by plot.py at 2019-08-27 07:54:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 133.869 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 133.869 ms
Loss rate: 1.78%

Run 5: Report of LEDBAT — Data Link

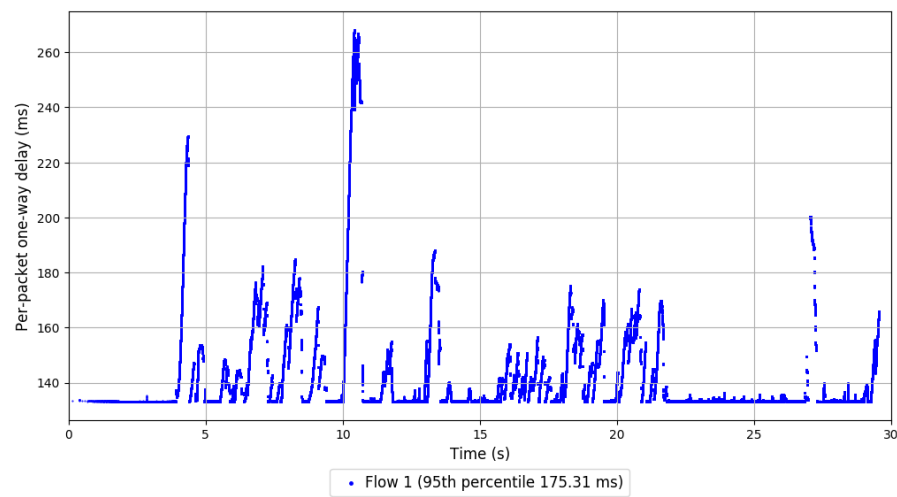
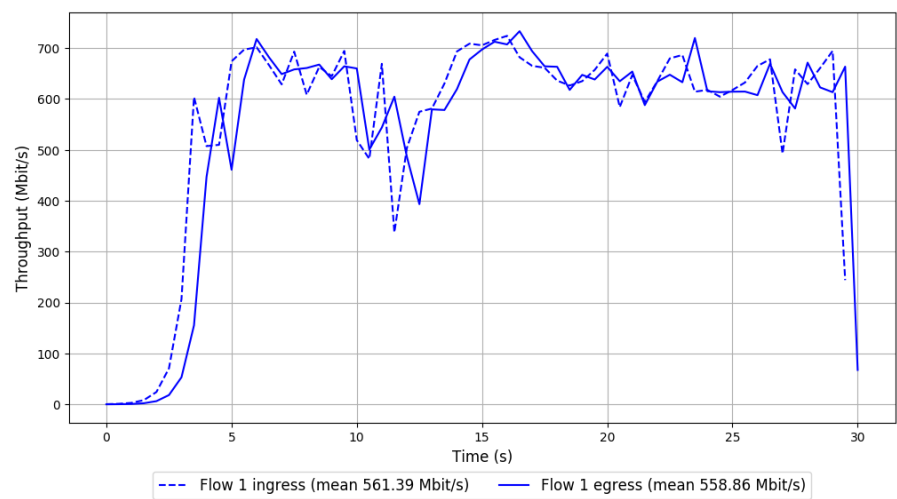


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-08-27 04:29:31
End at: 2019-08-27 04:30:01
Local clock offset: 0.321 ms
Remote clock offset: 0.055 ms

# Below is generated by plot.py at 2019-08-27 07:56:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 558.86 Mbit/s
95th percentile per-packet one-way delay: 175.313 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 558.86 Mbit/s
95th percentile per-packet one-way delay: 175.313 ms
Loss rate: 1.37%
```

Run 1: Report of Muses_DecisionTree — Data Link

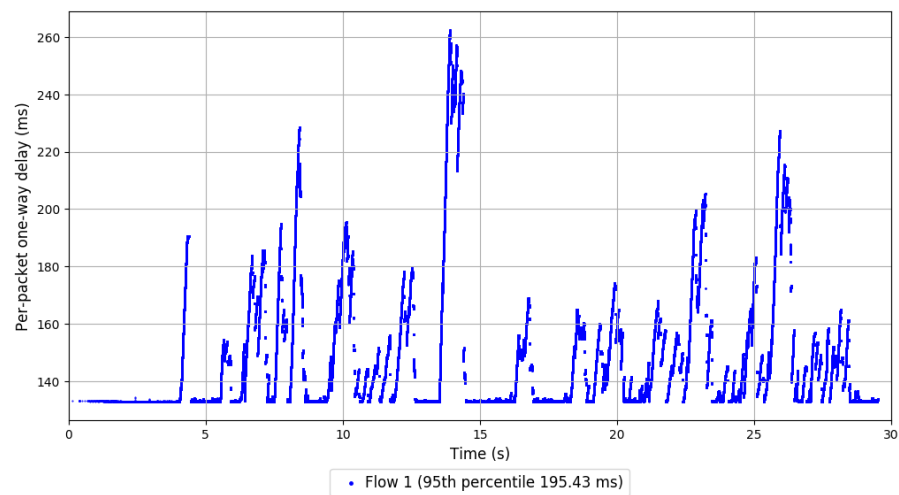
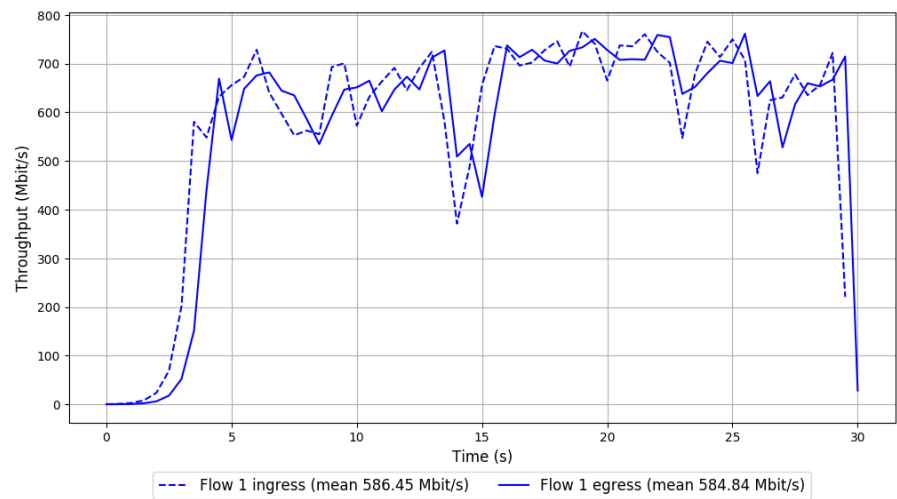


Run 2: Statistics of Muses_DecisionTree

Start at: 2019-08-27 05:05:37
End at: 2019-08-27 05:06:07
Local clock offset: -0.103 ms
Remote clock offset: -0.148 ms

Below is generated by plot.py at 2019-08-27 07:57:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 584.84 Mbit/s
95th percentile per-packet one-way delay: 195.432 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 584.84 Mbit/s
95th percentile per-packet one-way delay: 195.432 ms
Loss rate: 1.17%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

Start at: 2019-08-27 05:41:15

End at: 2019-08-27 05:41:45

Local clock offset: -0.297 ms

Remote clock offset: -0.13 ms

Below is generated by plot.py at 2019-08-27 07:59:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 577.67 Mbit/s

95th percentile per-packet one-way delay: 211.626 ms

Loss rate: 1.39%

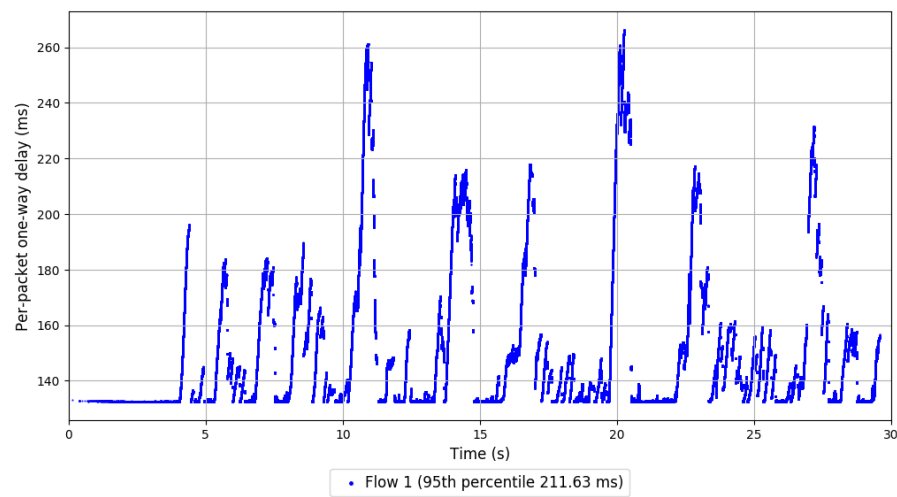
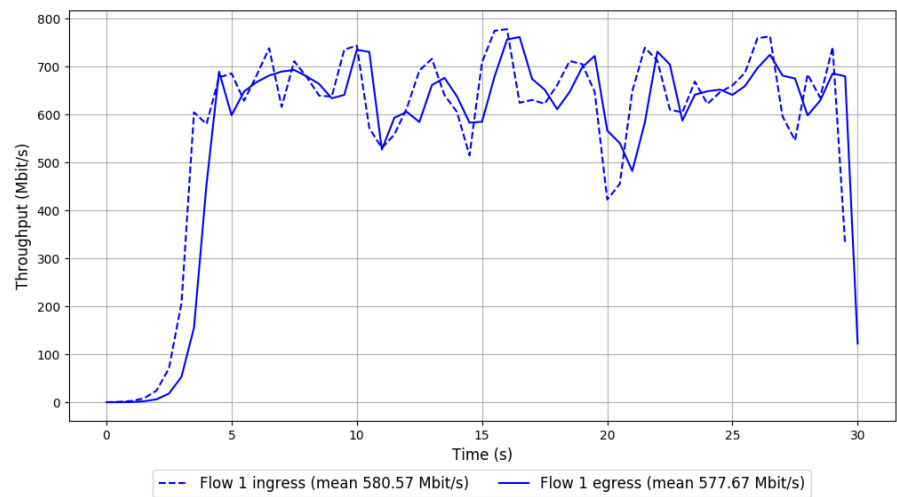
-- Flow 1:

Average throughput: 577.67 Mbit/s

95th percentile per-packet one-way delay: 211.626 ms

Loss rate: 1.39%

Run 3: Report of Muses_DecisionTree — Data Link

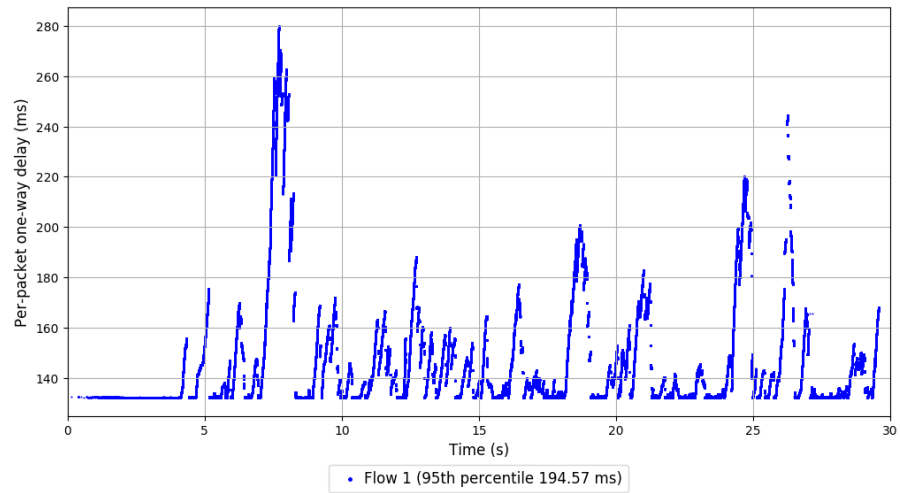
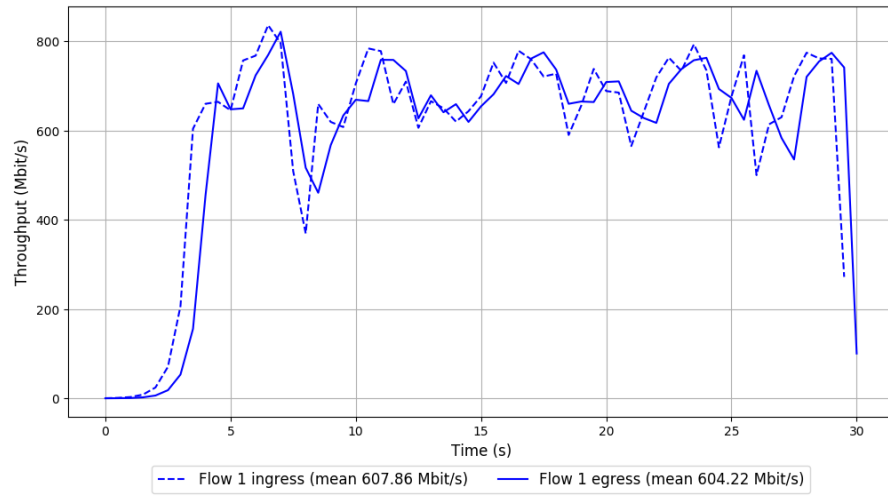


Run 4: Statistics of Muses_DecisionTree

Start at: 2019-08-27 06:17:40
End at: 2019-08-27 06:18:10
Local clock offset: 0.17 ms
Remote clock offset: -0.166 ms

Below is generated by plot.py at 2019-08-27 08:01:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 604.22 Mbit/s
95th percentile per-packet one-way delay: 194.574 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 604.22 Mbit/s
95th percentile per-packet one-way delay: 194.574 ms
Loss rate: 1.49%

Run 4: Report of Muses_DecisionTree — Data Link

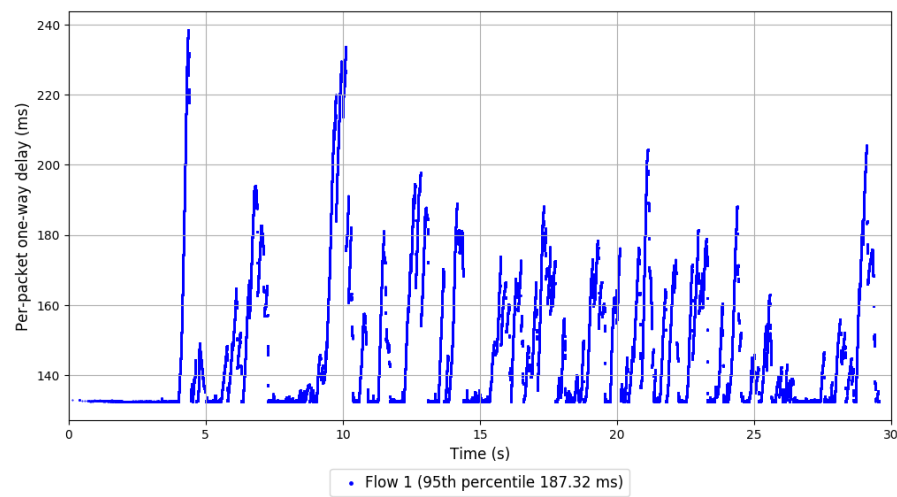
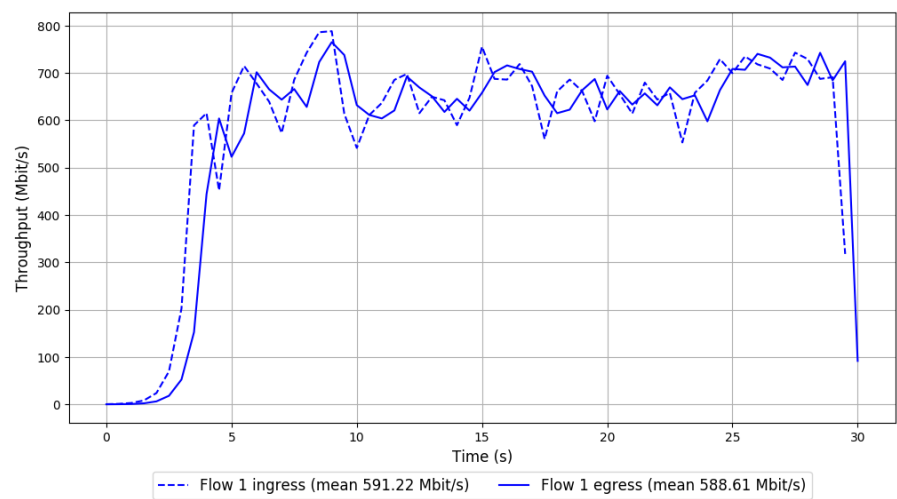


Run 5: Statistics of Muses_DecisionTree

Start at: 2019-08-27 06:53:36
End at: 2019-08-27 06:54:06
Local clock offset: -0.312 ms
Remote clock offset: -0.219 ms

Below is generated by plot.py at 2019-08-27 08:02:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 588.61 Mbit/s
95th percentile per-packet one-way delay: 187.320 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 588.61 Mbit/s
95th percentile per-packet one-way delay: 187.320 ms
Loss rate: 1.34%

Run 5: Report of Muses_DecisionTree — Data Link

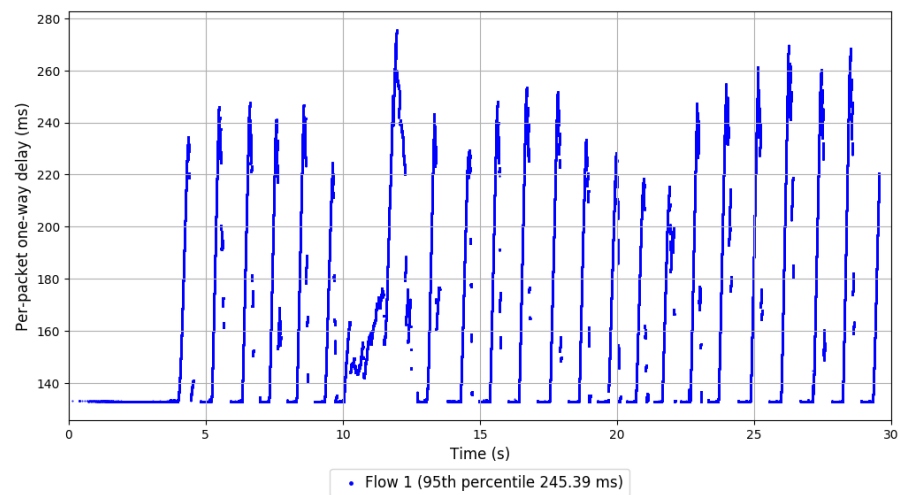
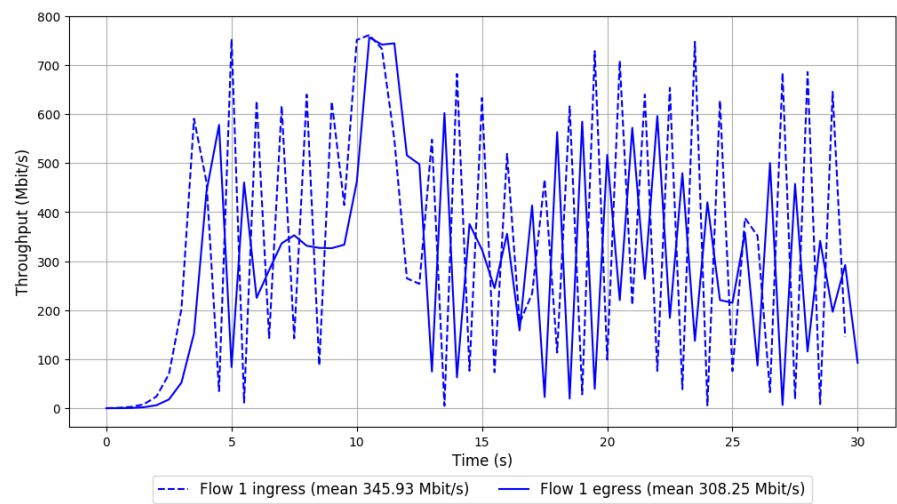


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-08-27 04:03:15
End at: 2019-08-27 04:03:45
Local clock offset: 0.061 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-08-27 08:02:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 308.25 Mbit/s
95th percentile per-packet one-way delay: 245.388 ms
Loss rate: 11.53%
-- Flow 1:
Average throughput: 308.25 Mbit/s
95th percentile per-packet one-way delay: 245.388 ms
Loss rate: 11.53%
```

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-08-27 04:38:42

End at: 2019-08-27 04:39:12

Local clock offset: -0.101 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2019-08-27 08:03:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 547.51 Mbit/s

95th percentile per-packet one-way delay: 202.452 ms

Loss rate: 1.52%

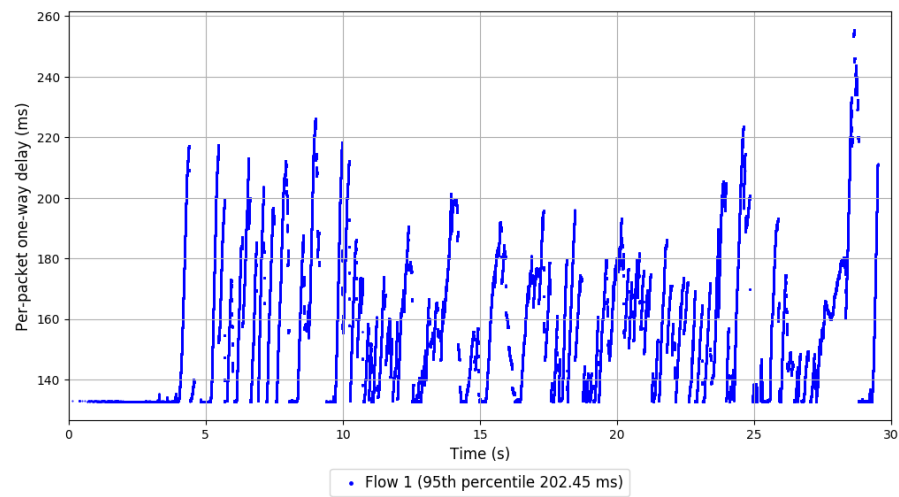
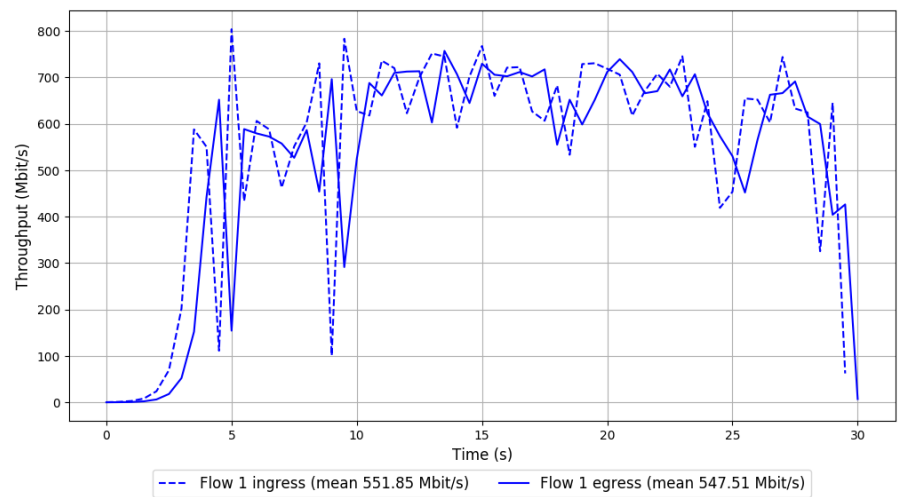
-- Flow 1:

Average throughput: 547.51 Mbit/s

95th percentile per-packet one-way delay: 202.452 ms

Loss rate: 1.52%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-08-27 05:14:53

End at: 2019-08-27 05:15:23

Local clock offset: -0.039 ms

Remote clock offset: -0.11 ms

Below is generated by plot.py at 2019-08-27 08:03:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 500.68 Mbit/s

95th percentile per-packet one-way delay: 222.875 ms

Loss rate: 2.74%

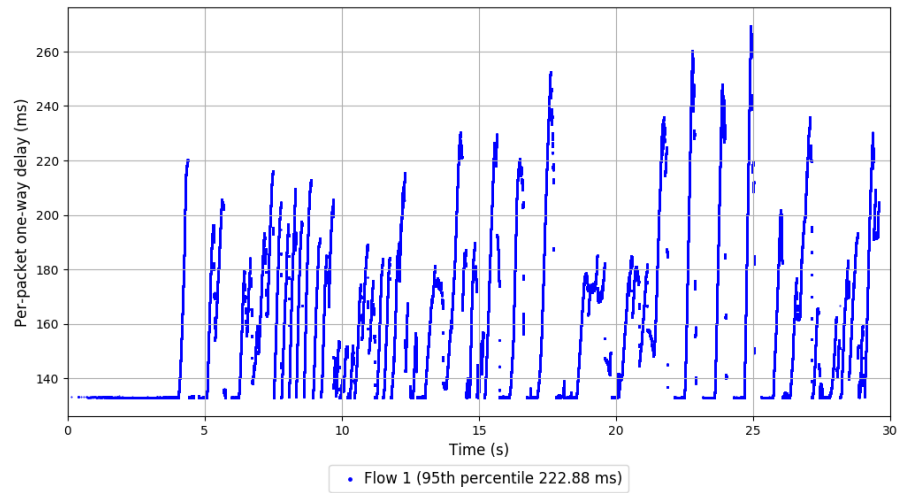
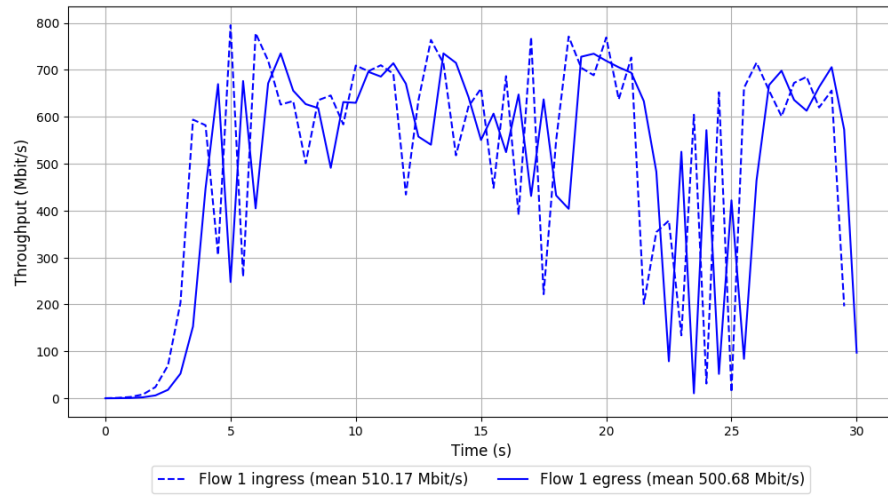
-- Flow 1:

Average throughput: 500.68 Mbit/s

95th percentile per-packet one-way delay: 222.875 ms

Loss rate: 2.74%

Run 3: Report of Muses_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-08-27 05:50:31

End at: 2019-08-27 05:51:01

Local clock offset: -0.47 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2019-08-27 08:05:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 583.00 Mbit/s

95th percentile per-packet one-way delay: 206.848 ms

Loss rate: 1.45%

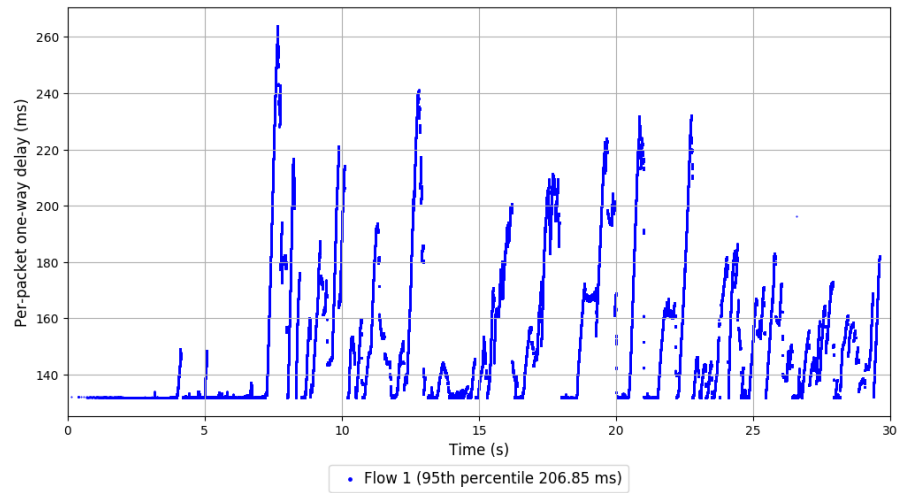
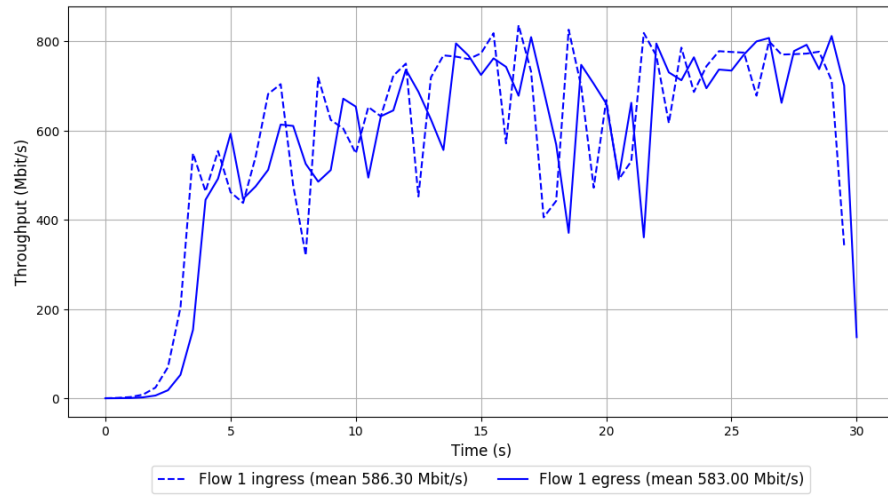
-- Flow 1:

Average throughput: 583.00 Mbit/s

95th percentile per-packet one-way delay: 206.848 ms

Loss rate: 1.45%

Run 4: Report of Muses_DecisionTreeH0 — Data Link



Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-08-27 06:27:00

End at: 2019-08-27 06:27:30

Local clock offset: 0.46 ms

Remote clock offset: -0.52 ms

Below is generated by plot.py at 2019-08-27 08:05:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 418.46 Mbit/s

95th percentile per-packet one-way delay: 231.002 ms

Loss rate: 4.14%

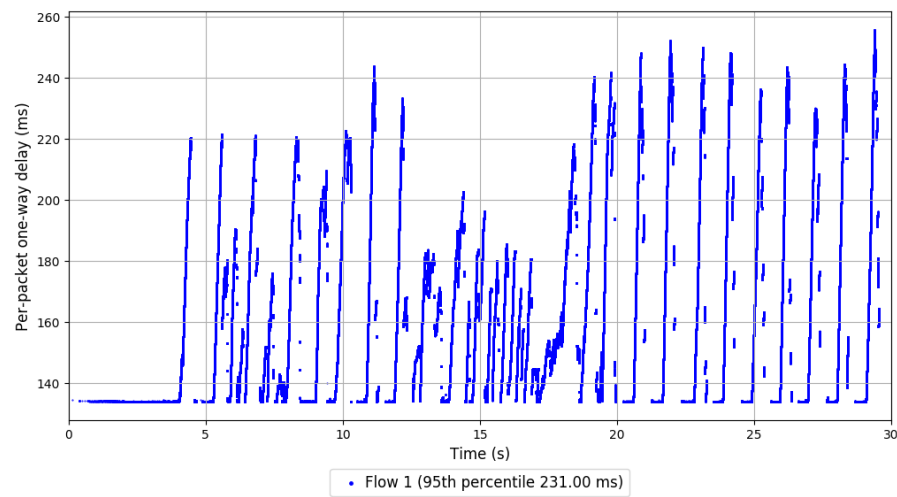
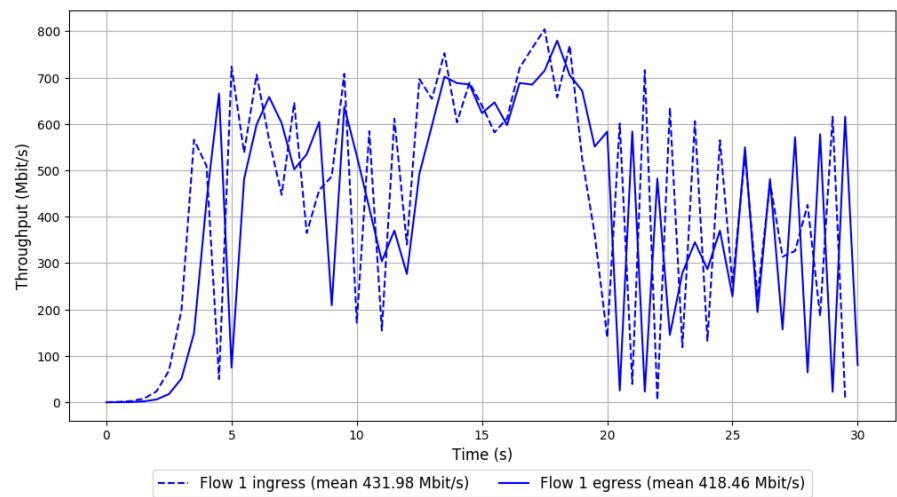
-- Flow 1:

Average throughput: 418.46 Mbit/s

95th percentile per-packet one-way delay: 231.002 ms

Loss rate: 4.14%

Run 5: Report of Muses_DecisionTreeH0 — Data Link

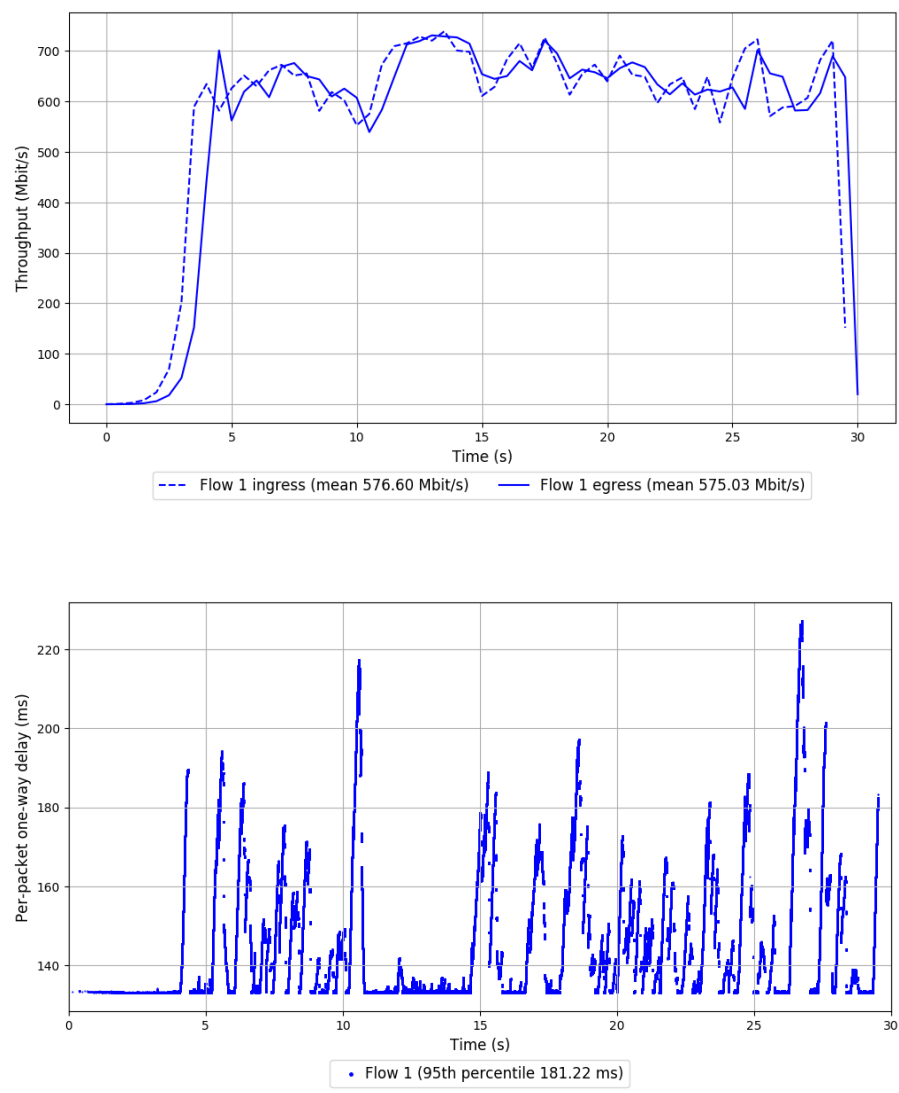


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-08-27 04:15:54
End at: 2019-08-27 04:16:24
Local clock offset: 0.323 ms
Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2019-08-27 08:06:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 575.03 Mbit/s
95th percentile per-packet one-way delay: 181.223 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 575.03 Mbit/s
95th percentile per-packet one-way delay: 181.223 ms
Loss rate: 1.14%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link

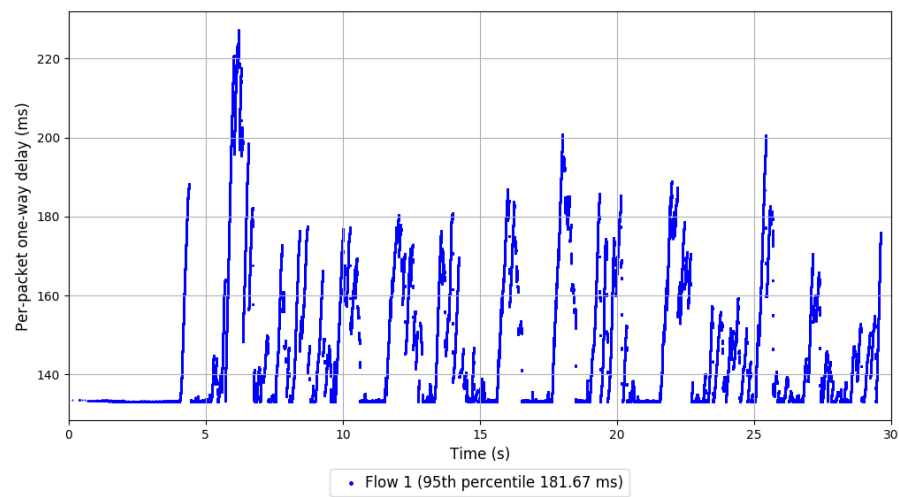
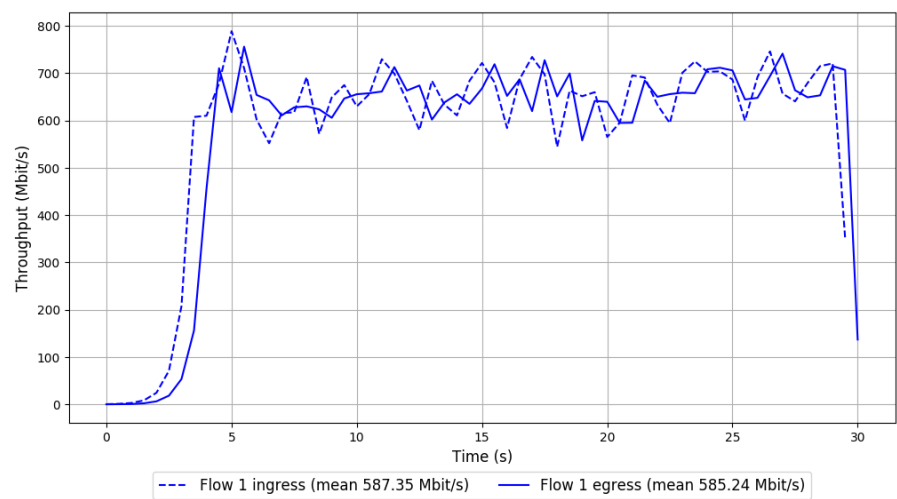


Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-08-27 04:51:43
End at: 2019-08-27 04:52:13
Local clock offset: 0.24 ms
Remote clock offset: -0.091 ms

Below is generated by plot.py at 2019-08-27 08:08:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 585.24 Mbit/s
95th percentile per-packet one-way delay: 181.666 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 585.24 Mbit/s
95th percentile per-packet one-way delay: 181.666 ms
Loss rate: 1.26%

Run 2: Report of Muses_DecisionTreeR0 — Data Link

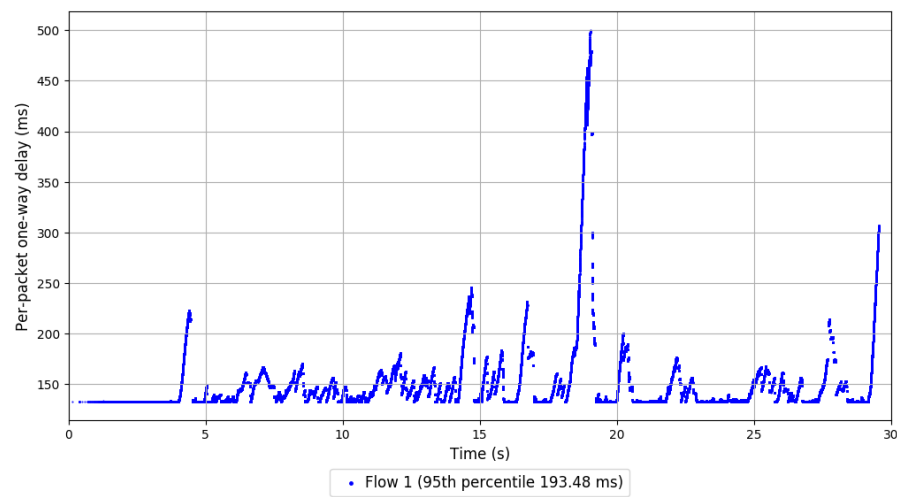
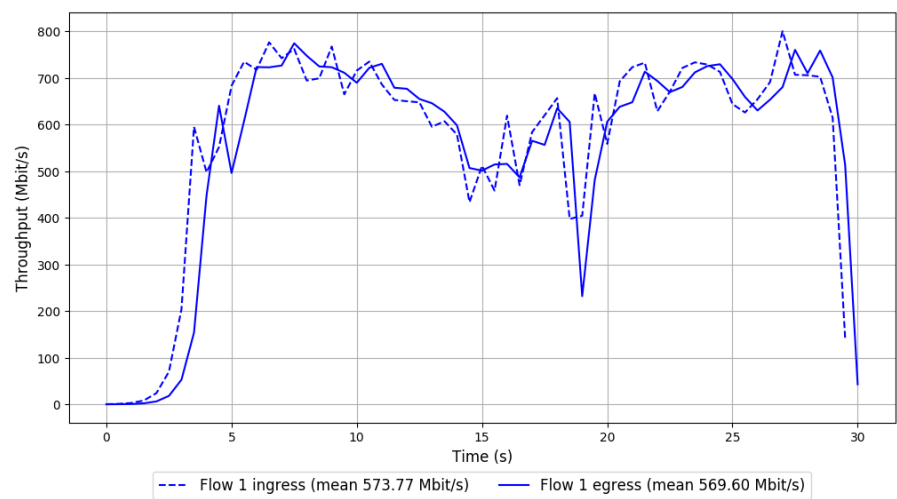


Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-08-27 05:27:54
End at: 2019-08-27 05:28:24
Local clock offset: -0.324 ms
Remote clock offset: -0.141 ms

Below is generated by plot.py at 2019-08-27 08:09:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 569.60 Mbit/s
95th percentile per-packet one-way delay: 193.483 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 569.60 Mbit/s
95th percentile per-packet one-way delay: 193.483 ms
Loss rate: 1.61%

Run 3: Report of Muses_DecisionTreeR0 — Data Link

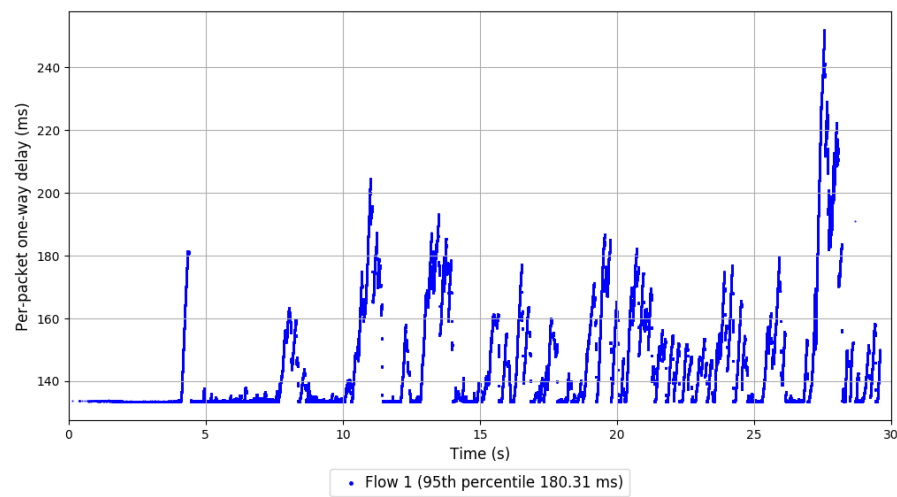
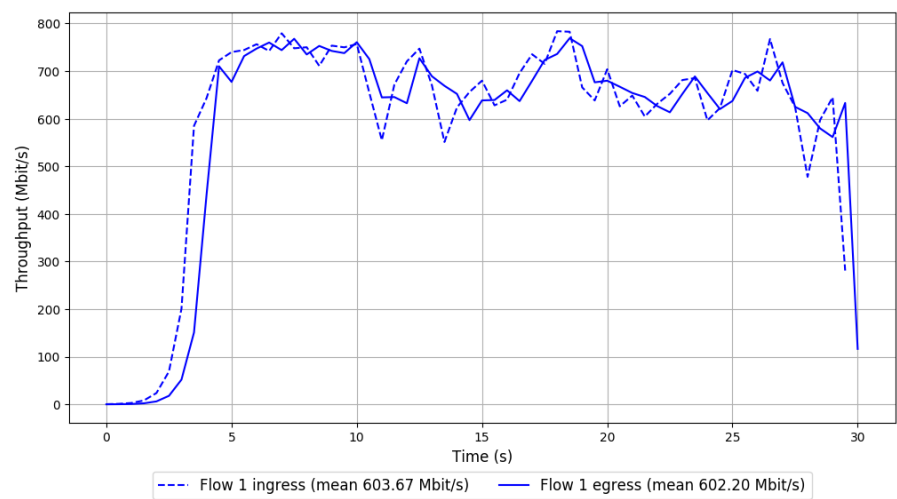


Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-08-27 06:03:43
End at: 2019-08-27 06:04:13
Local clock offset: 0.463 ms
Remote clock offset: -0.201 ms

Below is generated by plot.py at 2019-08-27 08:10:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 602.20 Mbit/s
95th percentile per-packet one-way delay: 180.312 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 602.20 Mbit/s
95th percentile per-packet one-way delay: 180.312 ms
Loss rate: 1.11%

Run 4: Report of Muses_DecisionTreeR0 — Data Link

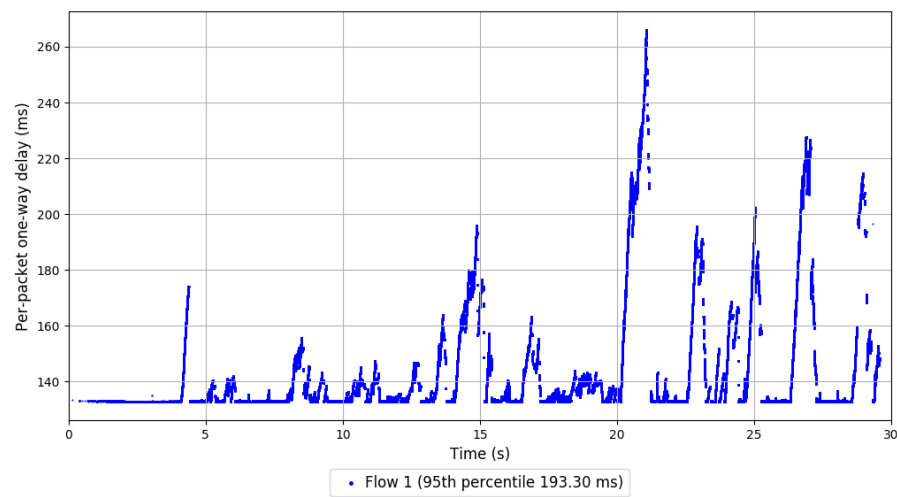
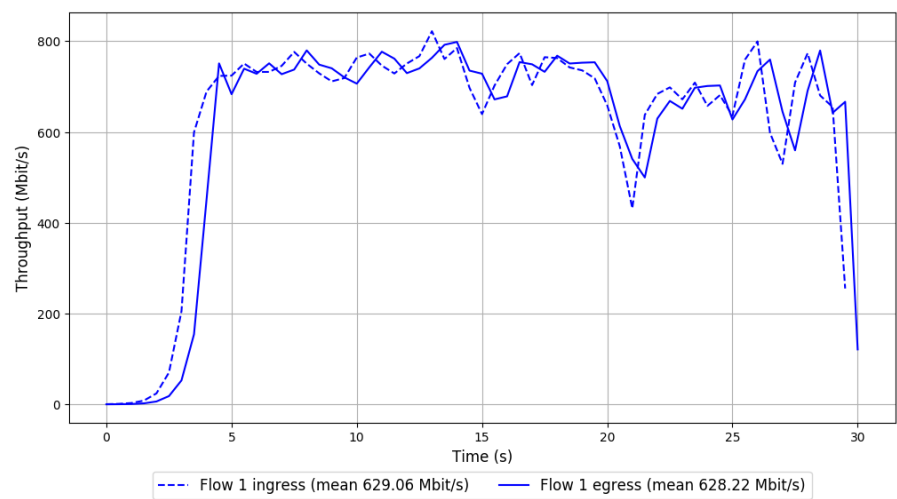


Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-08-27 06:40:06
End at: 2019-08-27 06:40:36
Local clock offset: 0.348 ms
Remote clock offset: -0.228 ms

Below is generated by plot.py at 2019-08-27 08:10:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 628.22 Mbit/s
95th percentile per-packet one-way delay: 193.297 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 628.22 Mbit/s
95th percentile per-packet one-way delay: 193.297 ms
Loss rate: 1.03%

Run 5: Report of Muses_DecisionTreeR0 — Data Link

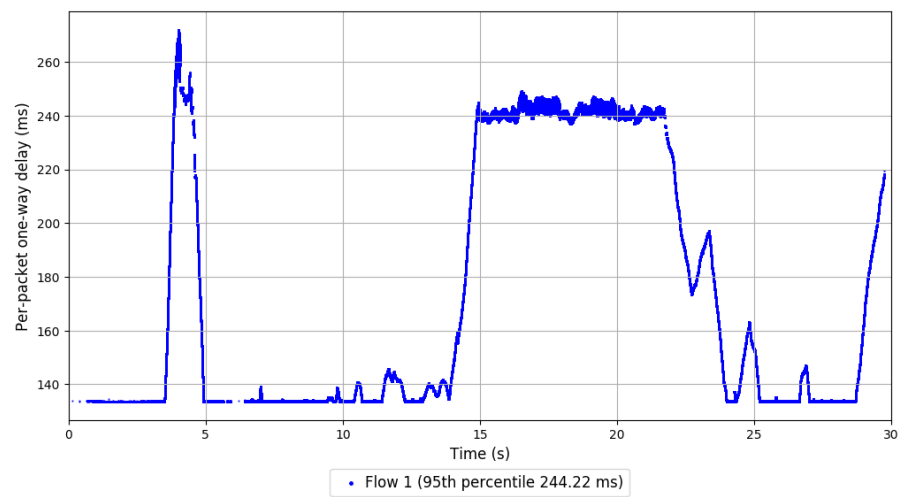
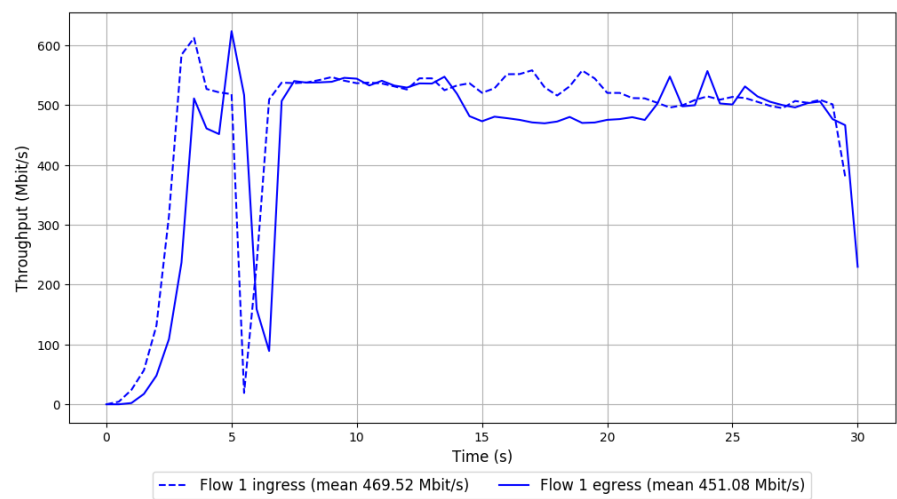


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-08-27 04:26:35
End at: 2019-08-27 04:27:05
Local clock offset: 0.393 ms
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2019-08-27 08:15:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 451.08 Mbit/s
95th percentile per-packet one-way delay: 244.217 ms
Loss rate: 4.78%
-- Flow 1:
Average throughput: 451.08 Mbit/s
95th percentile per-packet one-way delay: 244.217 ms
Loss rate: 4.78%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-08-27 05:02:14

End at: 2019-08-27 05:02:44

Local clock offset: 0.269 ms

Remote clock offset: -0.028 ms

Below is generated by plot.py at 2019-08-27 08:16:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 437.55 Mbit/s

95th percentile per-packet one-way delay: 246.356 ms

Loss rate: 6.08%

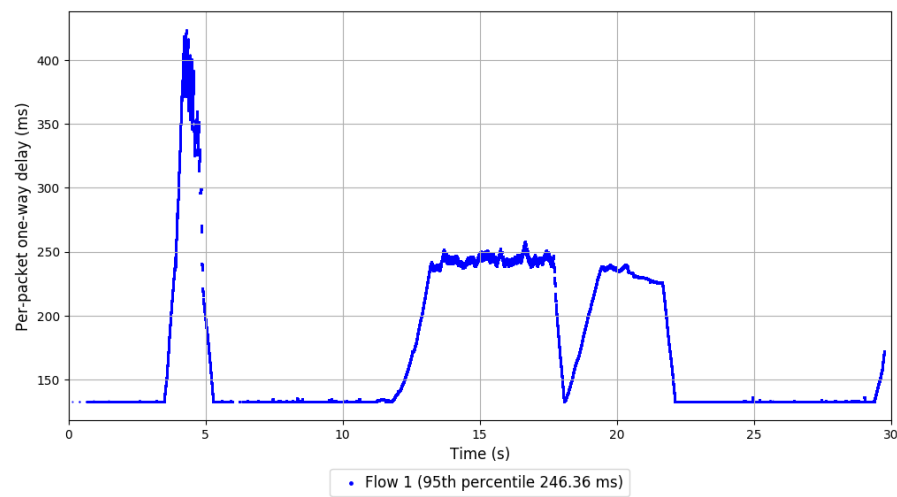
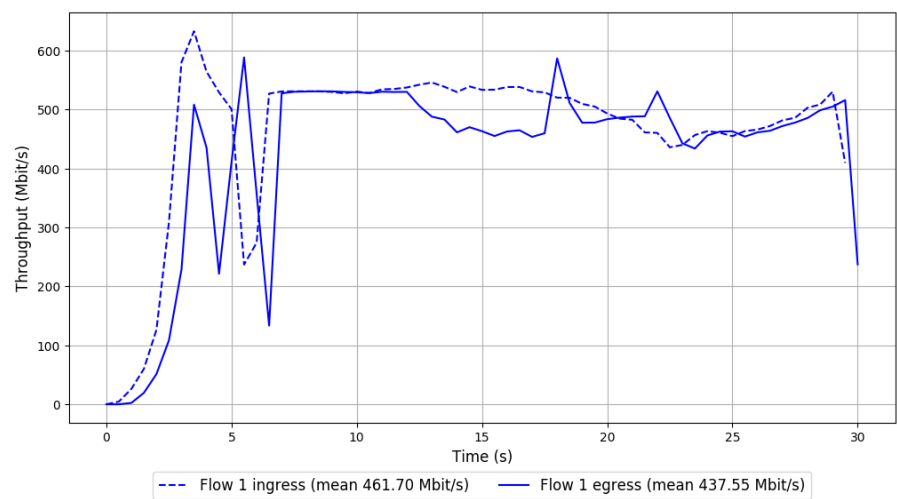
-- Flow 1:

Average throughput: 437.55 Mbit/s

95th percentile per-packet one-way delay: 246.356 ms

Loss rate: 6.08%

Run 2: Report of PCC-Allegro — Data Link

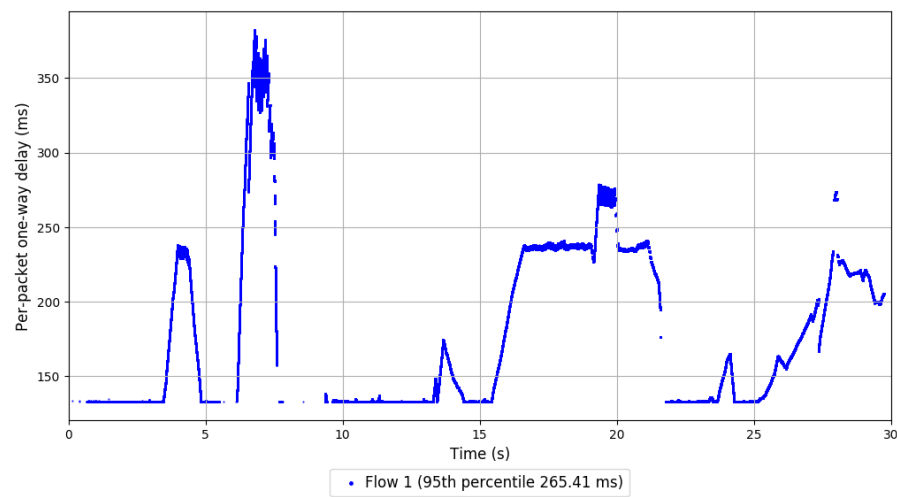
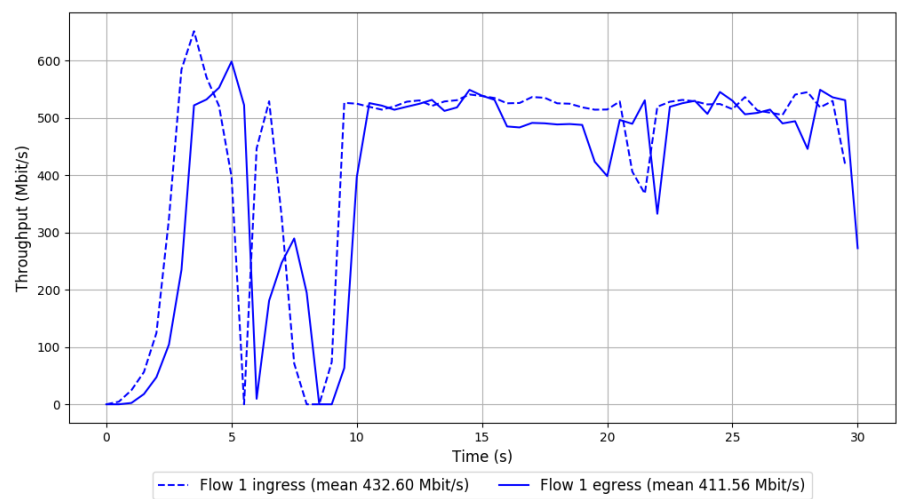


Run 3: Statistics of PCC-Allegro

Start at: 2019-08-27 05:38:19
End at: 2019-08-27 05:38:49
Local clock offset: -0.286 ms
Remote clock offset: -0.089 ms

Below is generated by plot.py at 2019-08-27 08:17:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 411.56 Mbit/s
95th percentile per-packet one-way delay: 265.413 ms
Loss rate: 5.71%
-- Flow 1:
Average throughput: 411.56 Mbit/s
95th percentile per-packet one-way delay: 265.413 ms
Loss rate: 5.71%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-08-27 06:14:22

End at: 2019-08-27 06:14:52

Local clock offset: 0.297 ms

Remote clock offset: -0.126 ms

Below is generated by plot.py at 2019-08-27 08:18:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.88 Mbit/s

95th percentile per-packet one-way delay: 256.096 ms

Loss rate: 6.75%

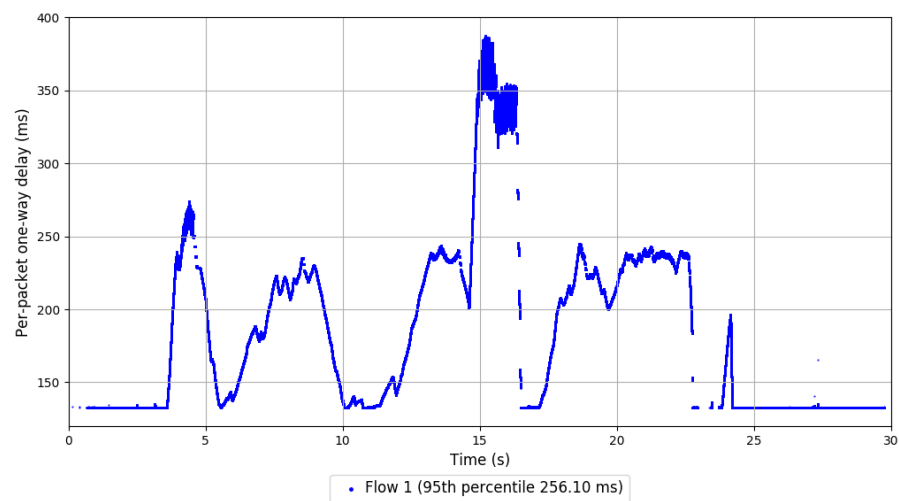
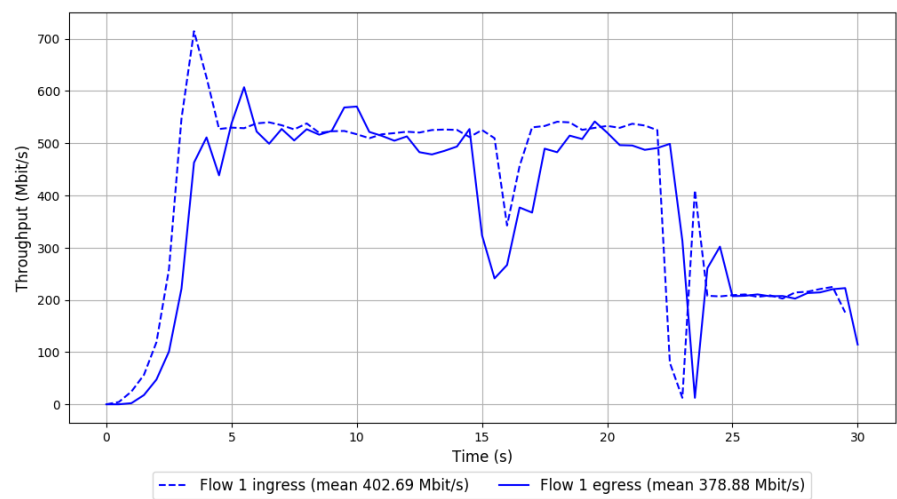
-- Flow 1:

Average throughput: 378.88 Mbit/s

95th percentile per-packet one-way delay: 256.096 ms

Loss rate: 6.75%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-08-27 06:50:40

End at: 2019-08-27 06:51:10

Local clock offset: 0.405 ms

Remote clock offset: -0.297 ms

Below is generated by plot.py at 2019-08-27 08:18:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 347.03 Mbit/s

95th percentile per-packet one-way delay: 240.346 ms

Loss rate: 3.32%

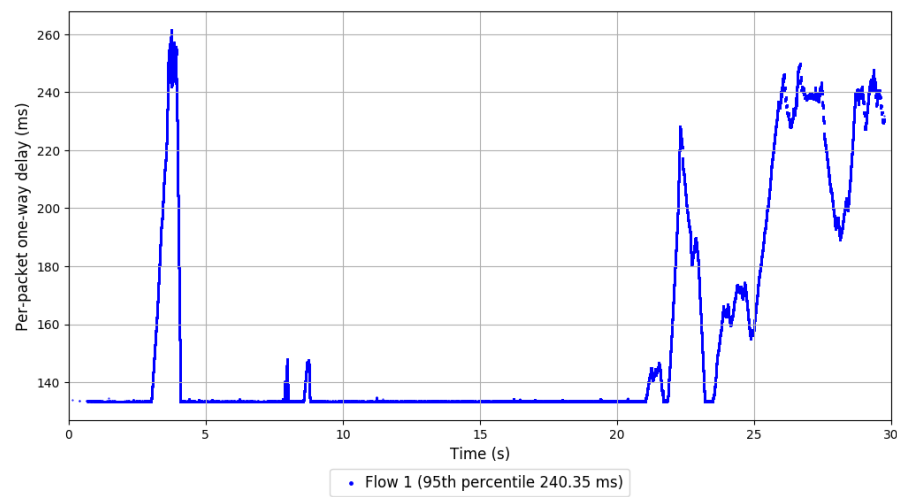
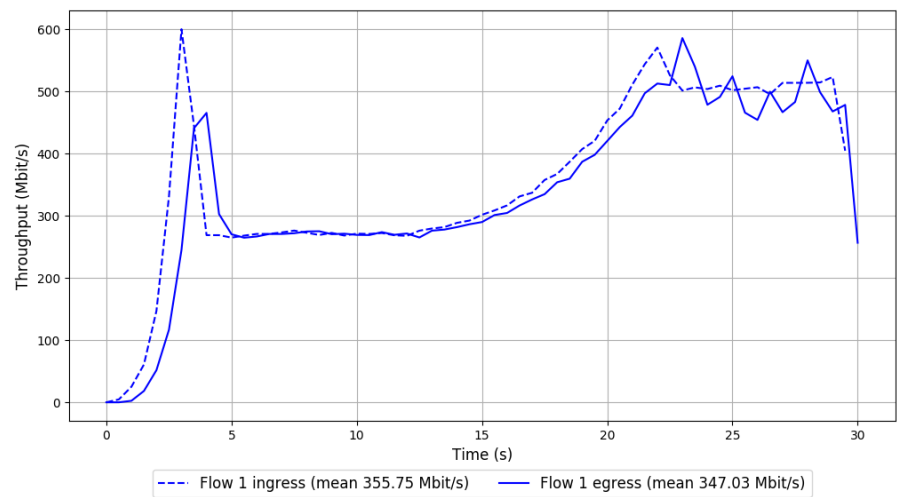
-- Flow 1:

Average throughput: 347.03 Mbit/s

95th percentile per-packet one-way delay: 240.346 ms

Loss rate: 3.32%

Run 5: Report of PCC-Allegro — Data Link

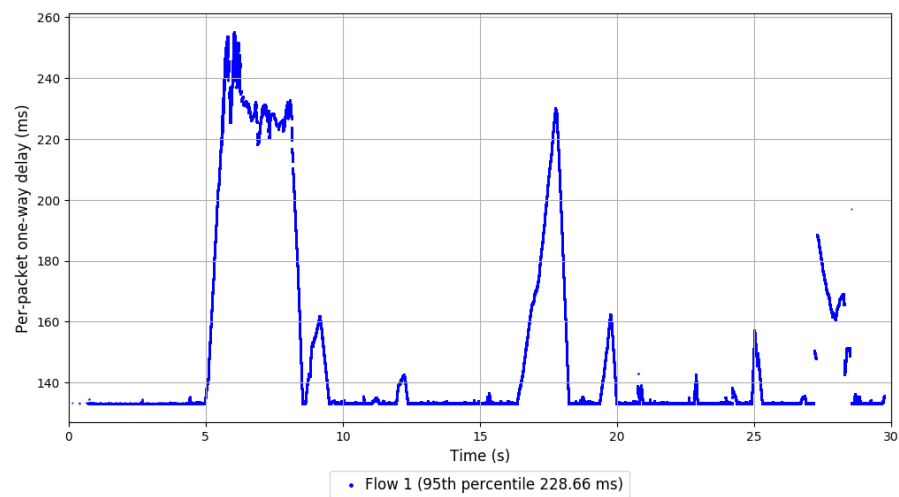
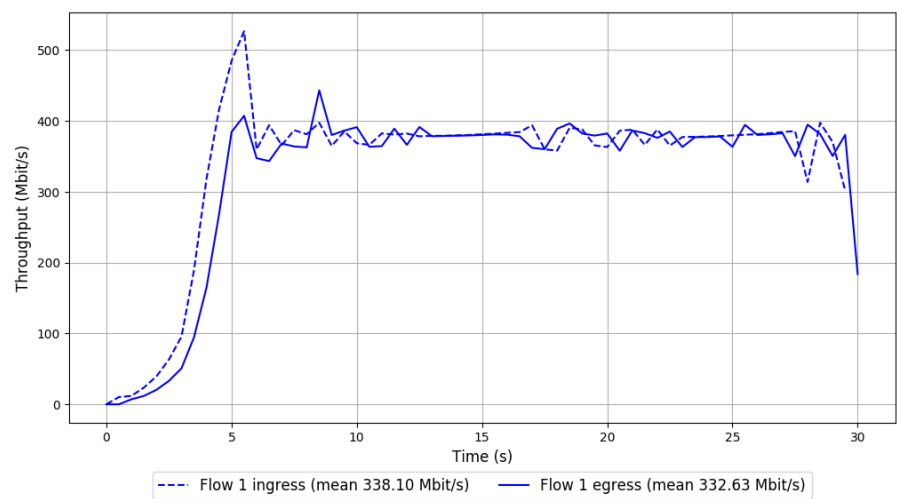


```
Run 1: Statistics of PCC-Expr

Start at: 2019-08-27 04:20:34
End at: 2019-08-27 04:21:04
Local clock offset: 0.3 ms
Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2019-08-27 08:19:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 332.63 Mbit/s
95th percentile per-packet one-way delay: 228.664 ms
Loss rate: 2.50%
-- Flow 1:
Average throughput: 332.63 Mbit/s
95th percentile per-packet one-way delay: 228.664 ms
Loss rate: 2.50%
```

Run 1: Report of PCC-Expr — Data Link

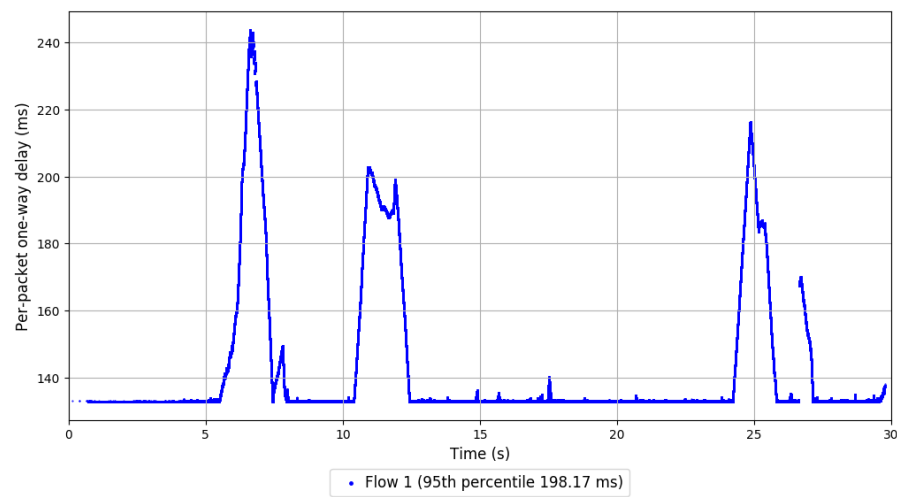
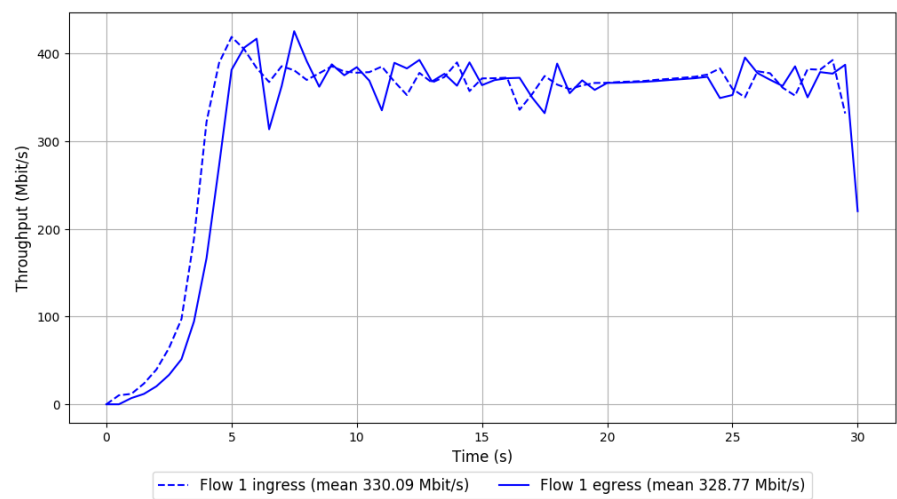


Run 2: Statistics of PCC-Expr

Start at: 2019-08-27 04:56:21
End at: 2019-08-27 04:56:51
Local clock offset: -0.013 ms
Remote clock offset: -0.134 ms

Below is generated by plot.py at 2019-08-27 08:20:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 328.77 Mbit/s
95th percentile per-packet one-way delay: 198.173 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 328.77 Mbit/s
95th percentile per-packet one-way delay: 198.173 ms
Loss rate: 1.29%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-08-27 05:32:31

End at: 2019-08-27 05:33:01

Local clock offset: 0.269 ms

Remote clock offset: -0.13 ms

Below is generated by plot.py at 2019-08-27 08:20:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 297.21 Mbit/s

95th percentile per-packet one-way delay: 160.348 ms

Loss rate: 1.35%

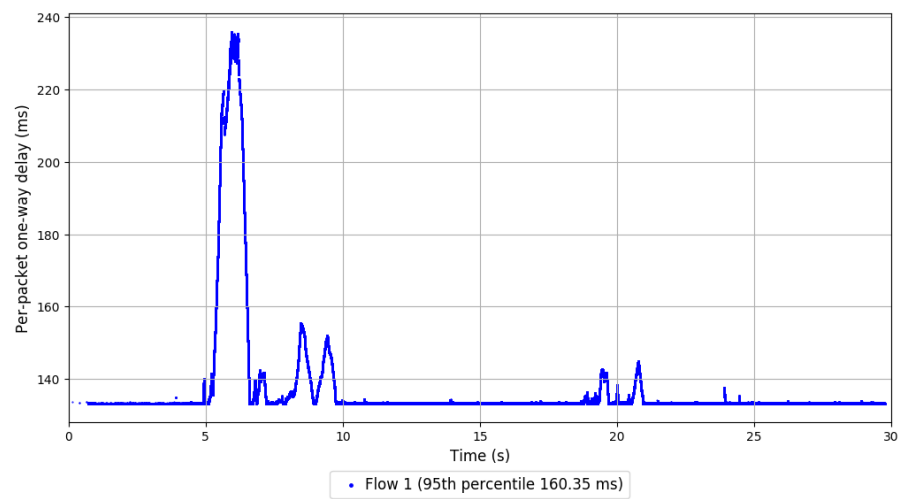
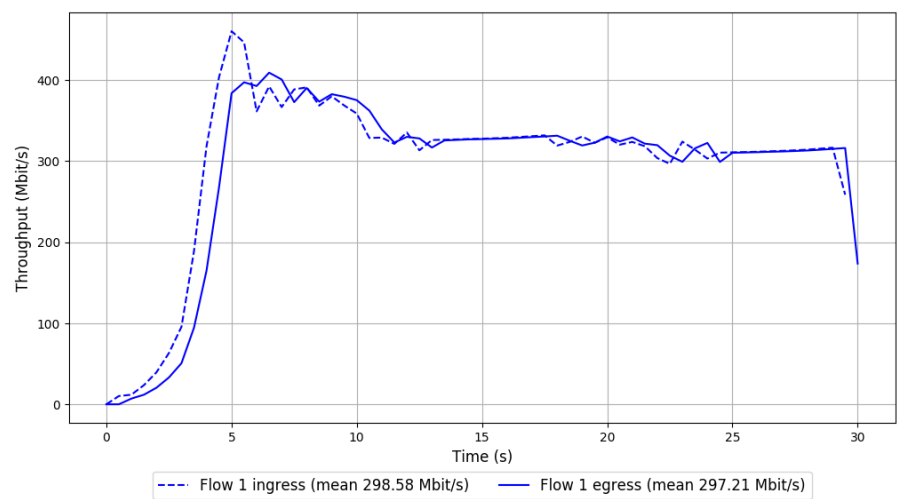
-- Flow 1:

Average throughput: 297.21 Mbit/s

95th percentile per-packet one-way delay: 160.348 ms

Loss rate: 1.35%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-08-27 06:08:24

End at: 2019-08-27 06:08:54

Local clock offset: -0.046 ms

Remote clock offset: -0.183 ms

Below is generated by plot.py at 2019-08-27 08:25:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 339.12 Mbit/s

95th percentile per-packet one-way delay: 213.948 ms

Loss rate: 1.64%

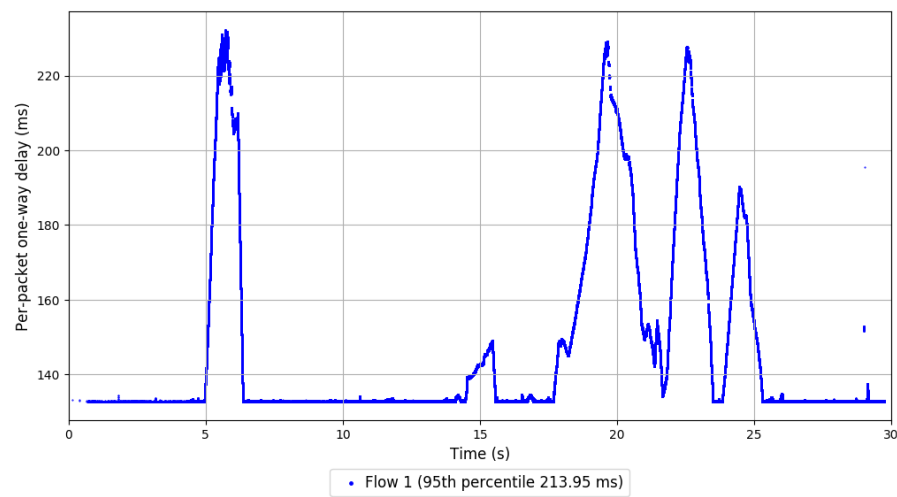
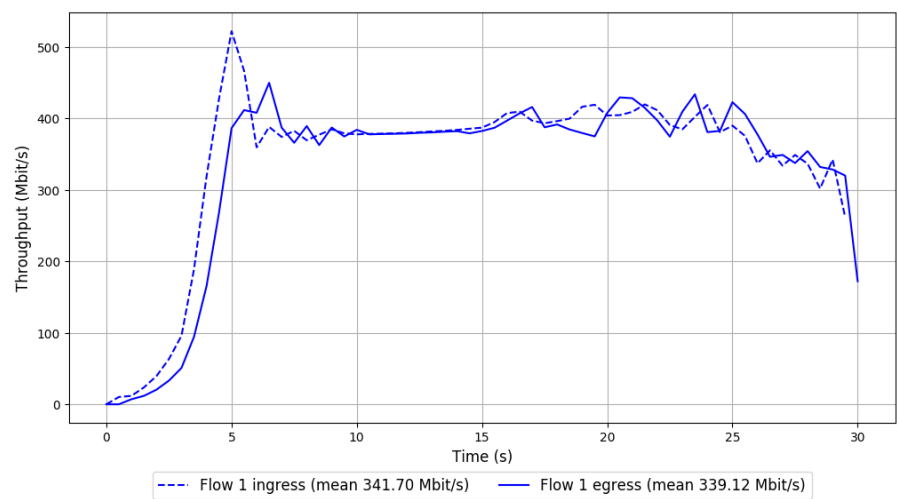
-- Flow 1:

Average throughput: 339.12 Mbit/s

95th percentile per-packet one-way delay: 213.948 ms

Loss rate: 1.64%

Run 4: Report of PCC-Expr — Data Link

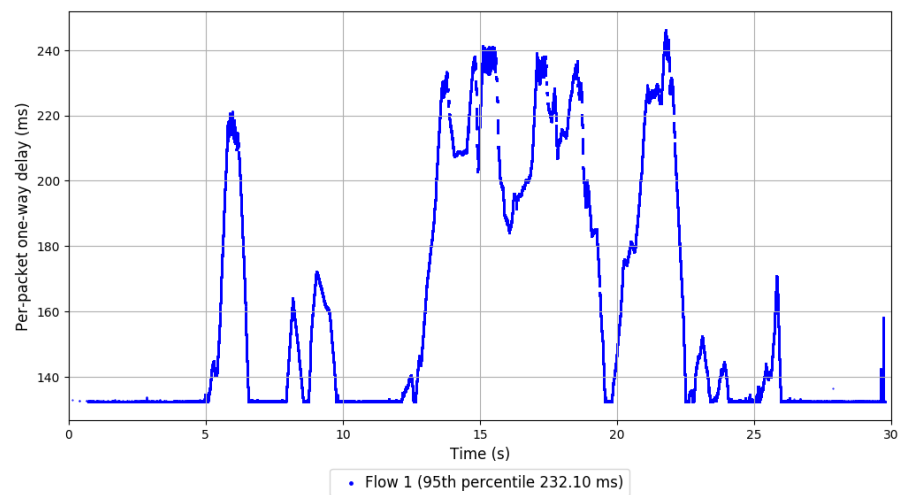
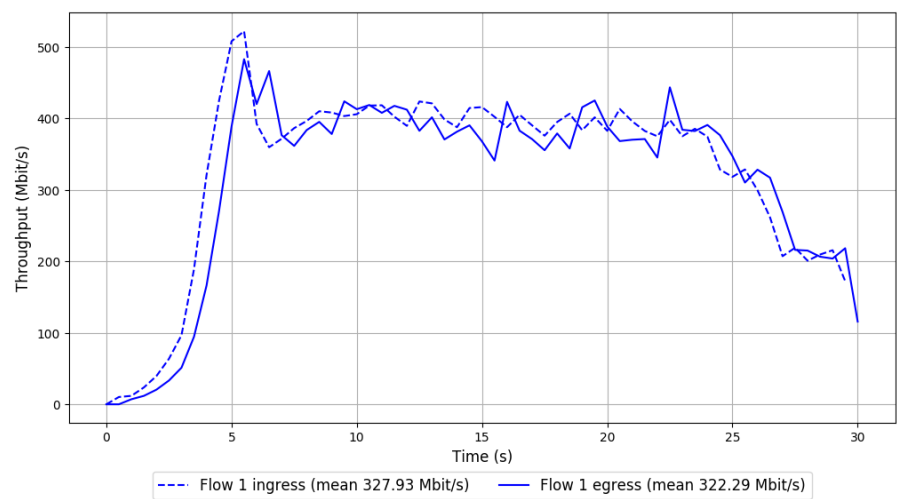


Run 5: Statistics of PCC-Expr

Start at: 2019-08-27 06:44:50
End at: 2019-08-27 06:45:20
Local clock offset: 0.126 ms
Remote clock offset: -0.238 ms

Below is generated by plot.py at 2019-08-27 08:26:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 322.29 Mbit/s
95th percentile per-packet one-way delay: 232.102 ms
Loss rate: 2.59%
-- Flow 1:
Average throughput: 322.29 Mbit/s
95th percentile per-packet one-way delay: 232.102 ms
Loss rate: 2.59%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-08-27 04:06:20

End at: 2019-08-27 04:06:50

Local clock offset: -0.473 ms

Remote clock offset: -0.013 ms

Below is generated by plot.py at 2019-08-27 08:26:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.91 Mbit/s

95th percentile per-packet one-way delay: 132.353 ms

Loss rate: 1.30%

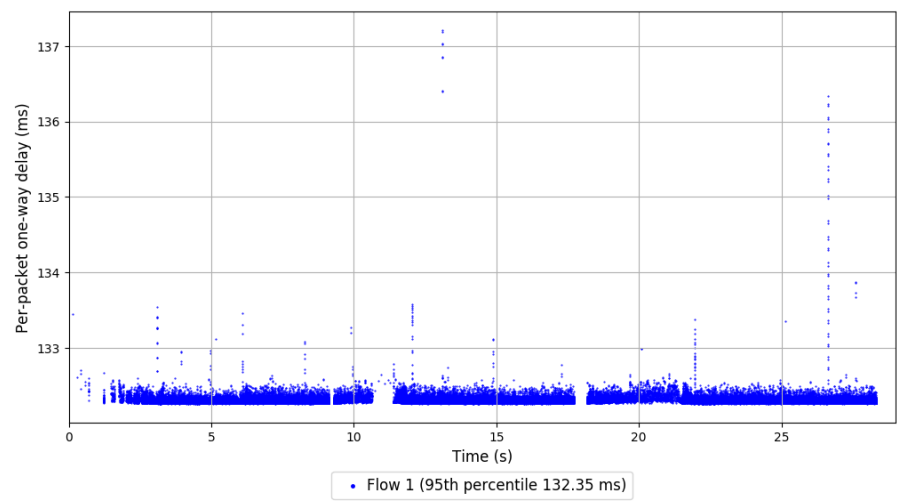
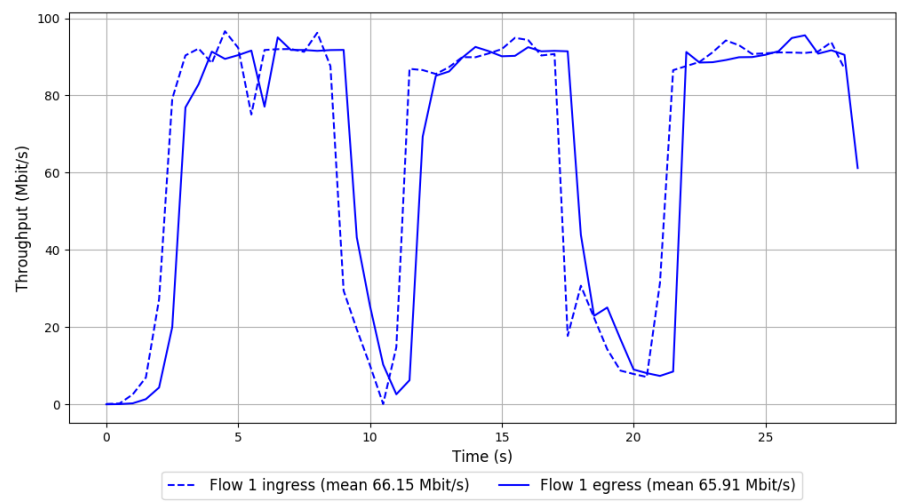
-- Flow 1:

Average throughput: 65.91 Mbit/s

95th percentile per-packet one-way delay: 132.353 ms

Loss rate: 1.30%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-08-27 04:41:57

End at: 2019-08-27 04:42:27

Local clock offset: 0.246 ms

Remote clock offset: -0.066 ms

Below is generated by plot.py at 2019-08-27 08:26:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.40 Mbit/s

95th percentile per-packet one-way delay: 133.012 ms

Loss rate: 1.28%

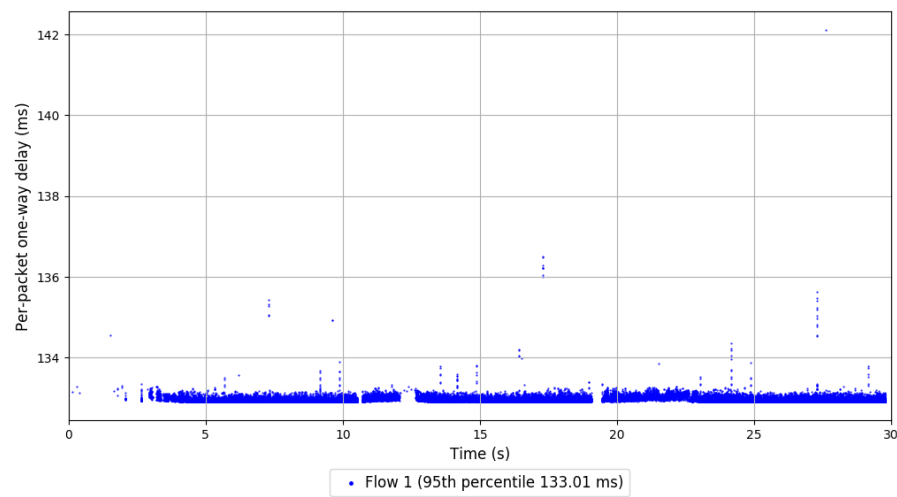
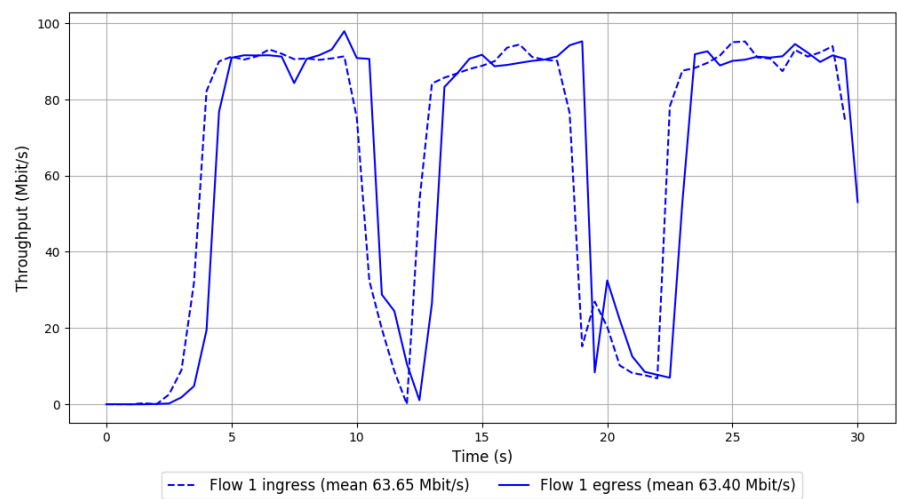
-- Flow 1:

Average throughput: 63.40 Mbit/s

95th percentile per-packet one-way delay: 133.012 ms

Loss rate: 1.28%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-08-27 05:18:06

End at: 2019-08-27 05:18:36

Local clock offset: -0.309 ms

Remote clock offset: -0.096 ms

Below is generated by plot.py at 2019-08-27 08:26:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.29 Mbit/s

95th percentile per-packet one-way delay: 132.844 ms

Loss rate: 1.29%

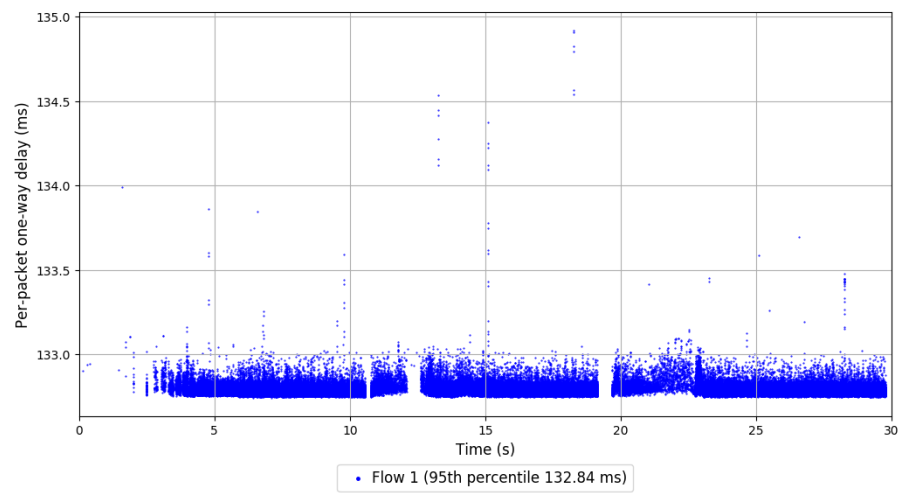
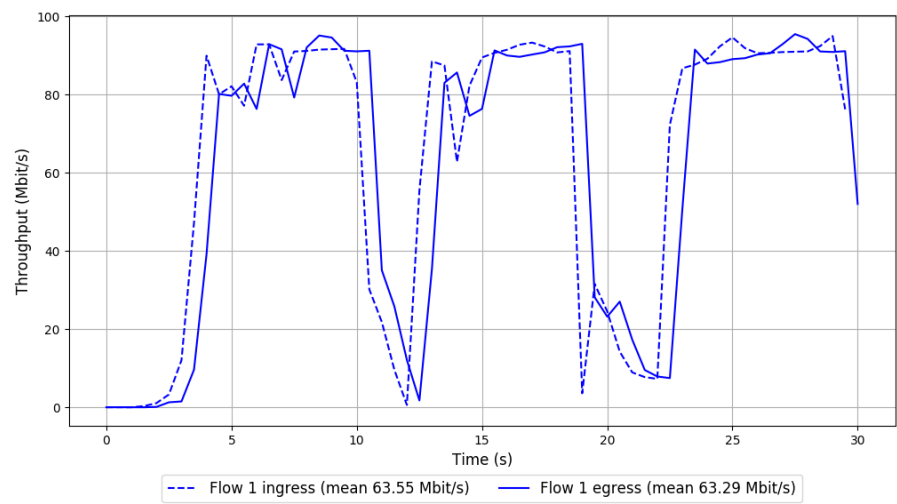
-- Flow 1:

Average throughput: 63.29 Mbit/s

95th percentile per-packet one-way delay: 132.844 ms

Loss rate: 1.29%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-08-27 05:53:52

End at: 2019-08-27 05:54:22

Local clock offset: -0.116 ms

Remote clock offset: -0.129 ms

Below is generated by plot.py at 2019-08-27 08:26:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.19 Mbit/s

95th percentile per-packet one-way delay: 133.014 ms

Loss rate: 1.15%

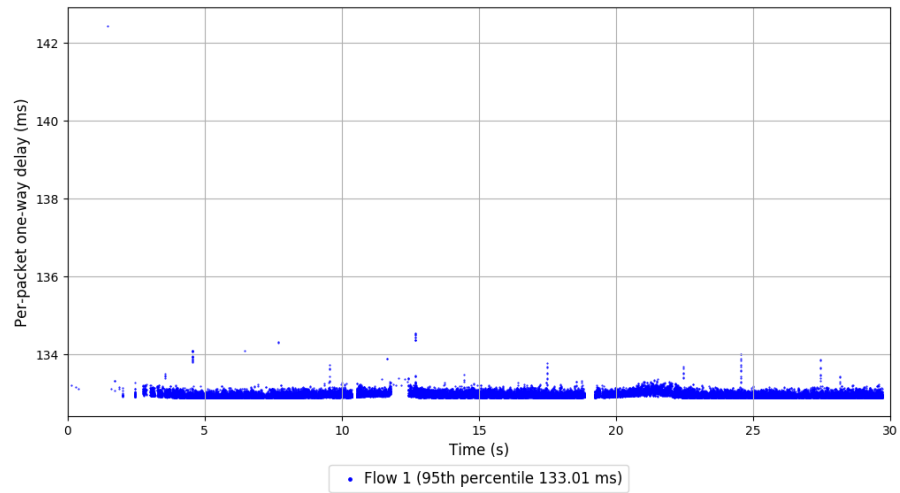
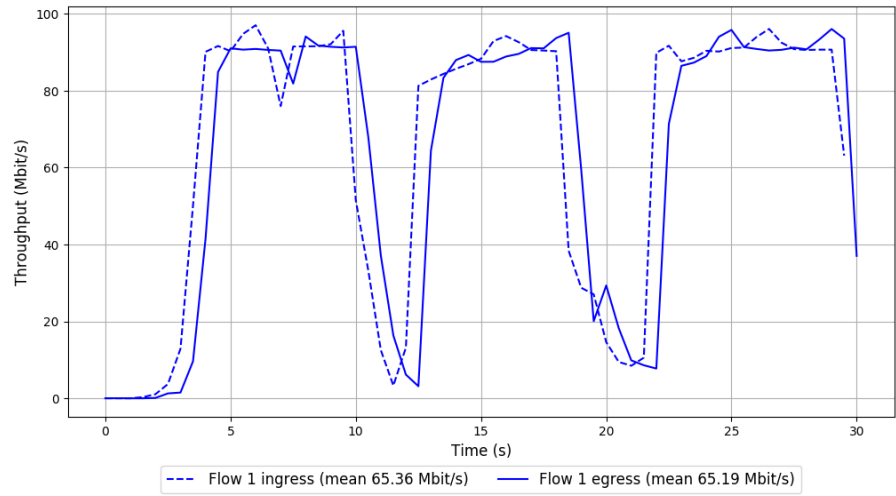
-- Flow 1:

Average throughput: 65.19 Mbit/s

95th percentile per-packet one-way delay: 133.014 ms

Loss rate: 1.15%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-08-27 06:30:08

End at: 2019-08-27 06:30:38

Local clock offset: 0.008 ms

Remote clock offset: -0.25 ms

Below is generated by plot.py at 2019-08-27 08:26:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.61 Mbit/s

95th percentile per-packet one-way delay: 132.945 ms

Loss rate: 1.26%

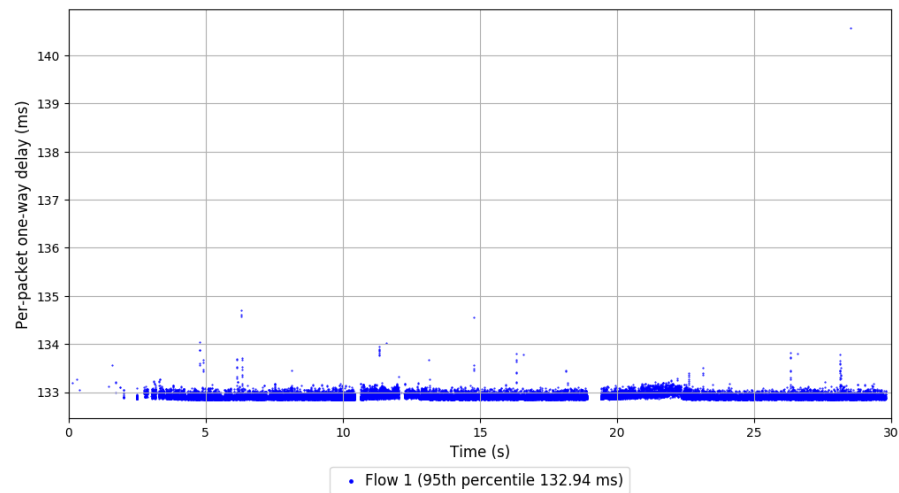
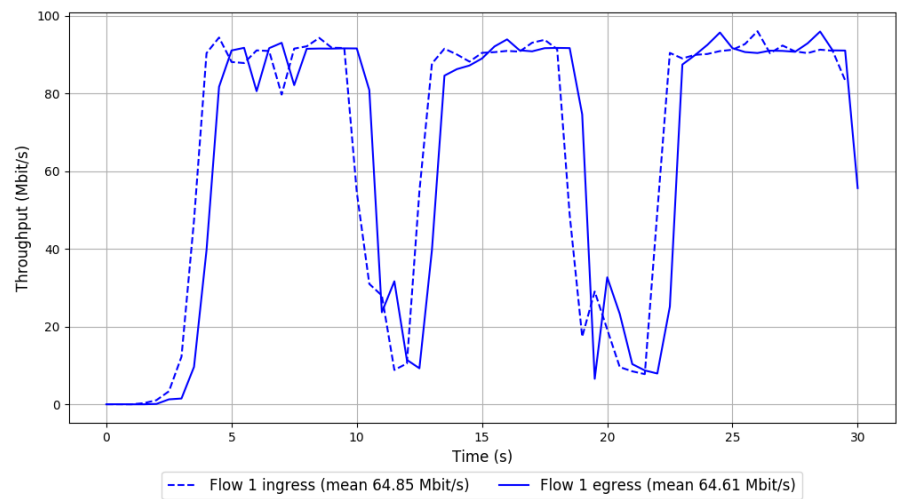
-- Flow 1:

Average throughput: 64.61 Mbit/s

95th percentile per-packet one-way delay: 132.945 ms

Loss rate: 1.26%

Run 5: Report of QUIC Cubic — Data Link

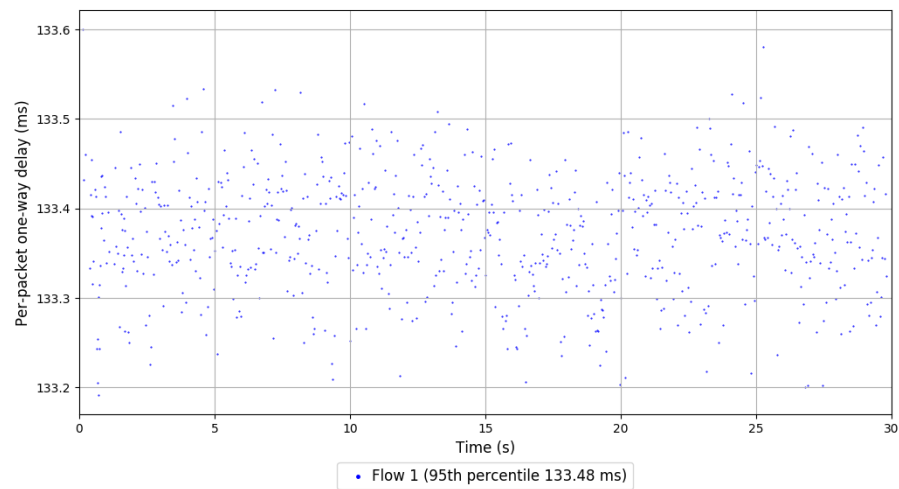
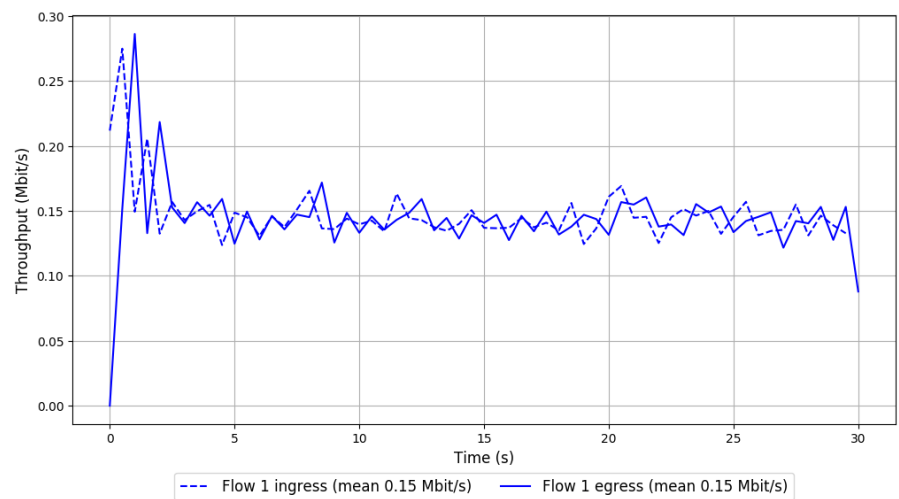


Run 1: Statistics of SCReAM

Start at: 2019-08-27 04:14:43
End at: 2019-08-27 04:15:14
Local clock offset: -0.004 ms
Remote clock offset: -0.349 ms

Below is generated by plot.py at 2019-08-27 08:26:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.476 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.476 ms
Loss rate: 0.88%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-08-27 04:50:33

End at: 2019-08-27 04:51:03

Local clock offset: -0.061 ms

Remote clock offset: -0.45 ms

Below is generated by plot.py at 2019-08-27 08:26:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 133.401 ms

Loss rate: 0.88%

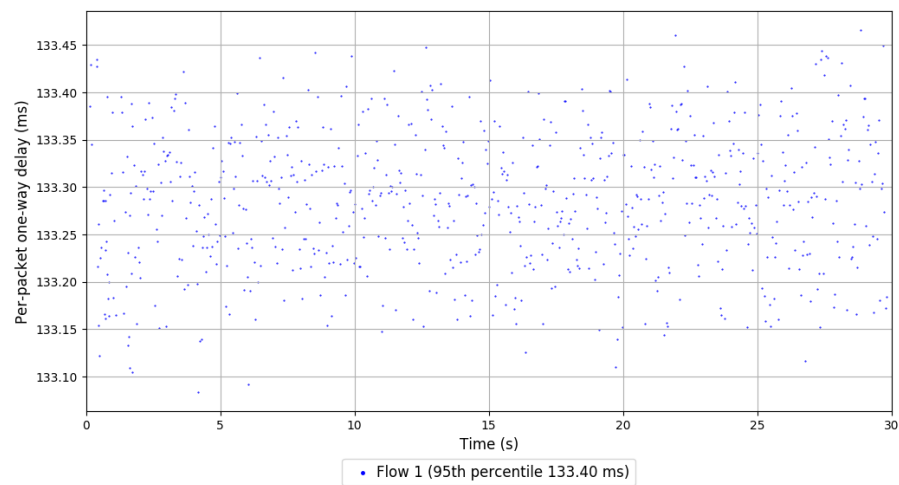
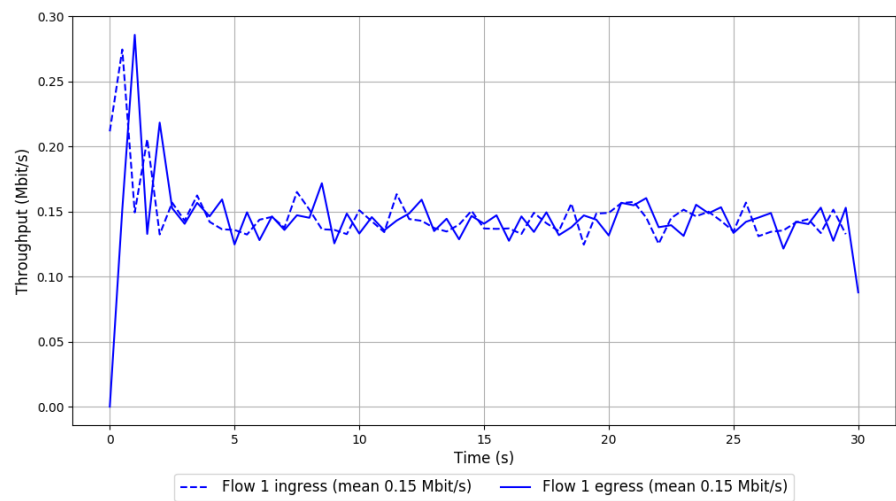
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 133.401 ms

Loss rate: 0.88%

Run 2: Report of SReAM — Data Link

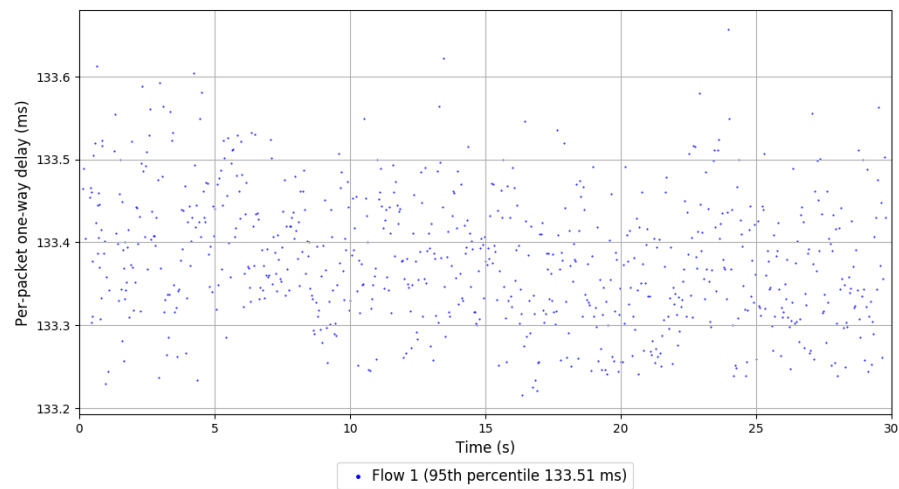
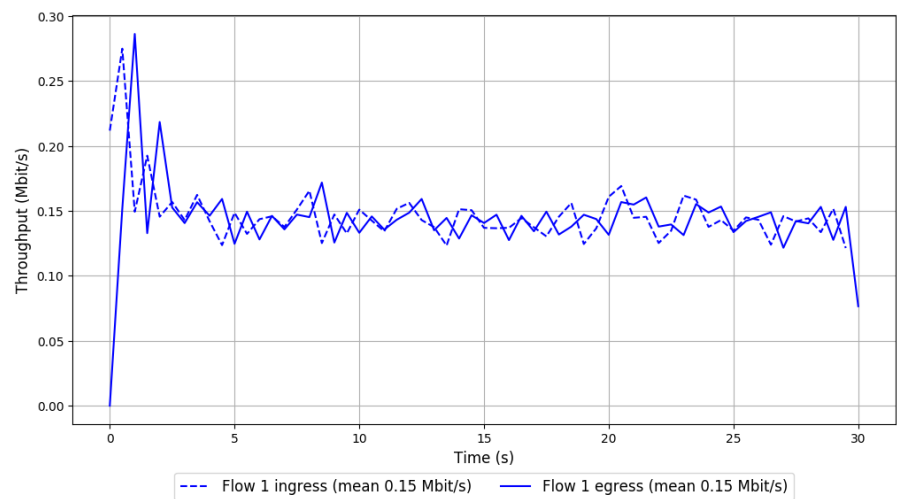


Run 3: Statistics of SCReAM

Start at: 2019-08-27 05:26:44
End at: 2019-08-27 05:27:14
Local clock offset: 0.299 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2019-08-27 08:26:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.515 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.515 ms
Loss rate: 0.88%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-08-27 06:02:33

End at: 2019-08-27 06:03:03

Local clock offset: 0.062 ms

Remote clock offset: -0.13 ms

Below is generated by plot.py at 2019-08-27 08:26:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 133.056 ms

Loss rate: 0.75%

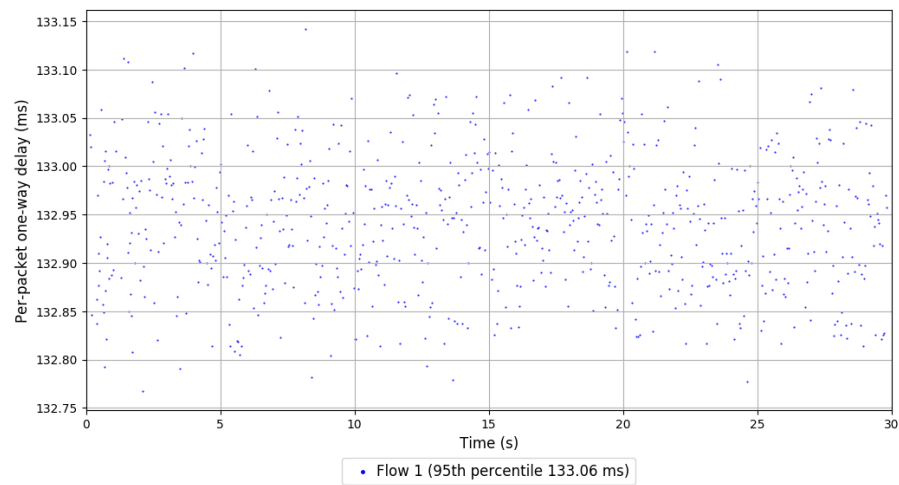
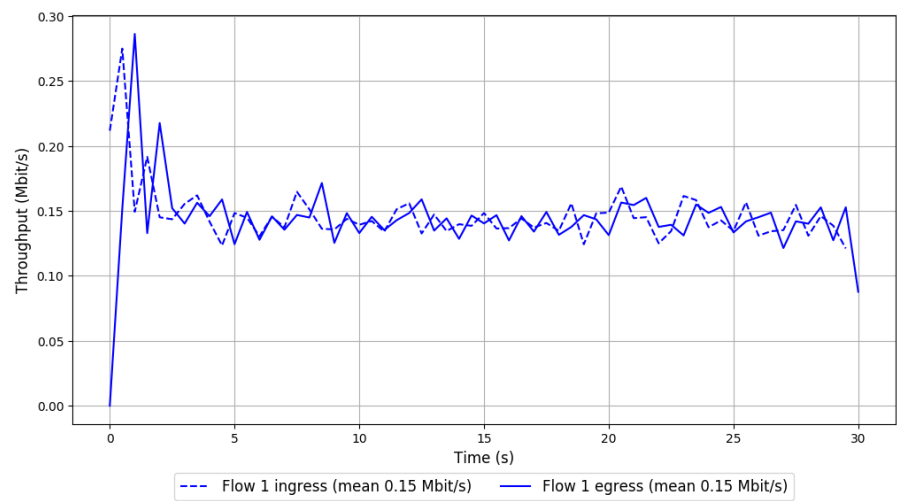
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 133.056 ms

Loss rate: 0.75%

Run 4: Report of SReAM — Data Link

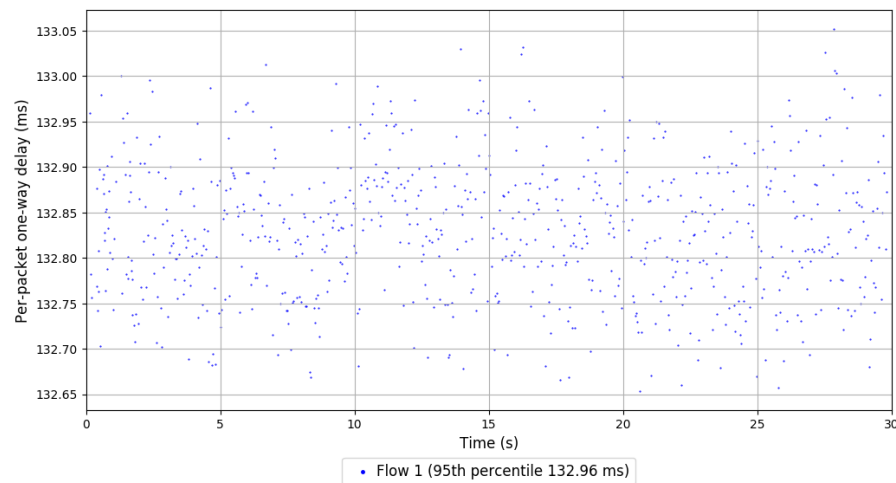
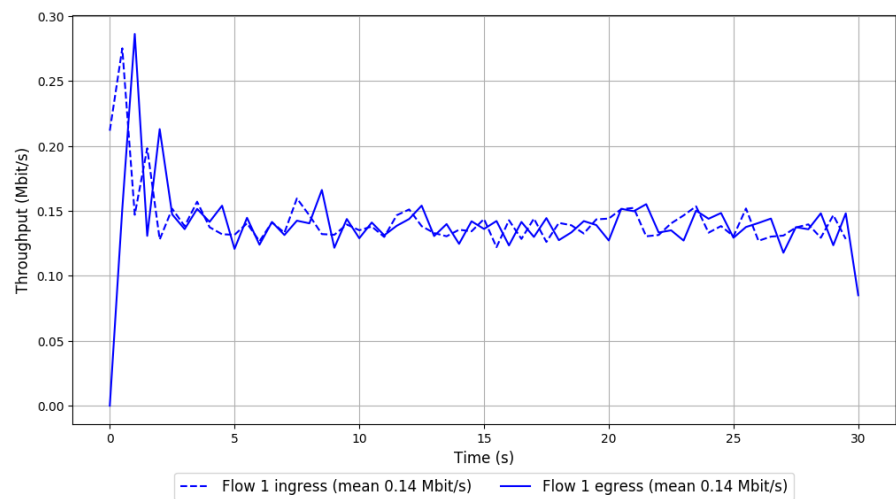


Run 5: Statistics of SCReAM

Start at: 2019-08-27 06:38:56
End at: 2019-08-27 06:39:26
Local clock offset: 0.4 ms
Remote clock offset: -0.146 ms

Below is generated by plot.py at 2019-08-27 08:26:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 132.959 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 132.959 ms
Loss rate: 0.88%

Run 5: Report of SReAM — Data Link

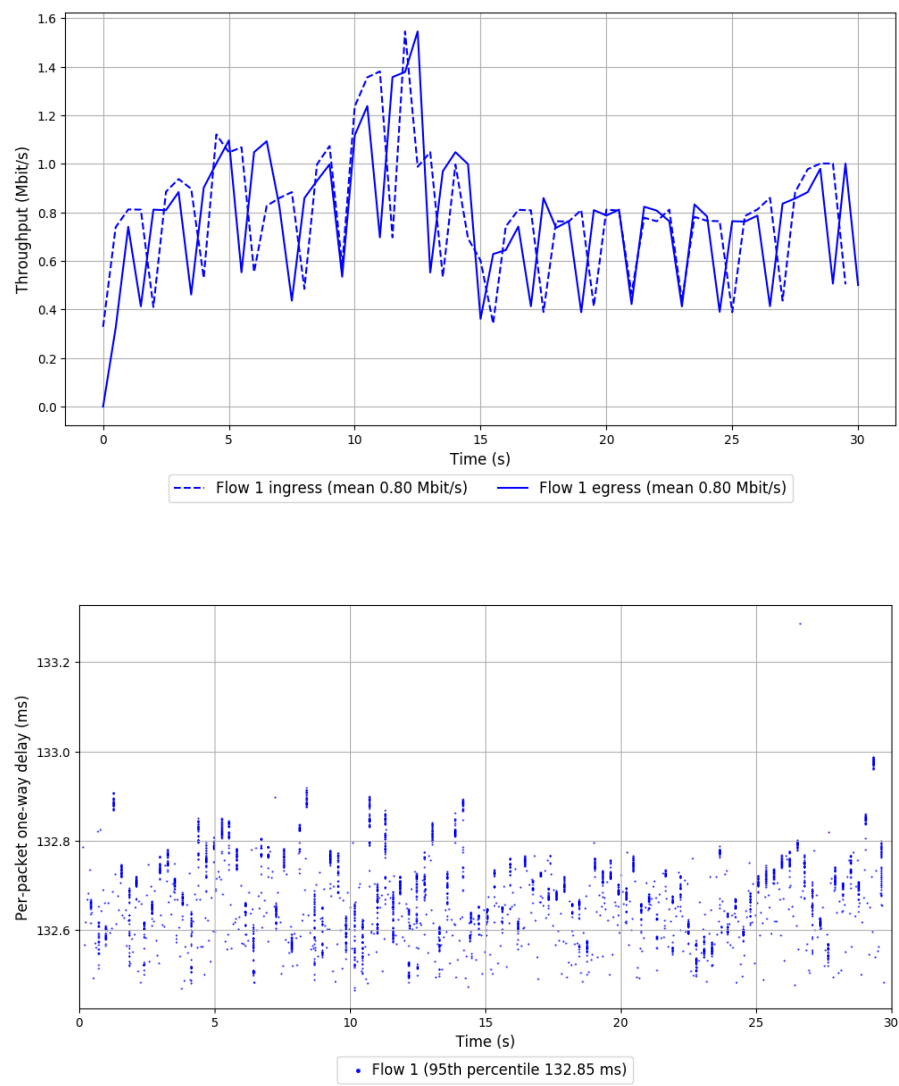


Run 1: Statistics of Sprout

Start at: 2019-08-27 04:22:16
End at: 2019-08-27 04:22:46
Local clock offset: -0.462 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2019-08-27 08:26:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.80 Mbit/s
95th percentile per-packet one-way delay: 132.847 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 0.80 Mbit/s
95th percentile per-packet one-way delay: 132.847 ms
Loss rate: 1.05%

Run 1: Report of Sprout — Data Link

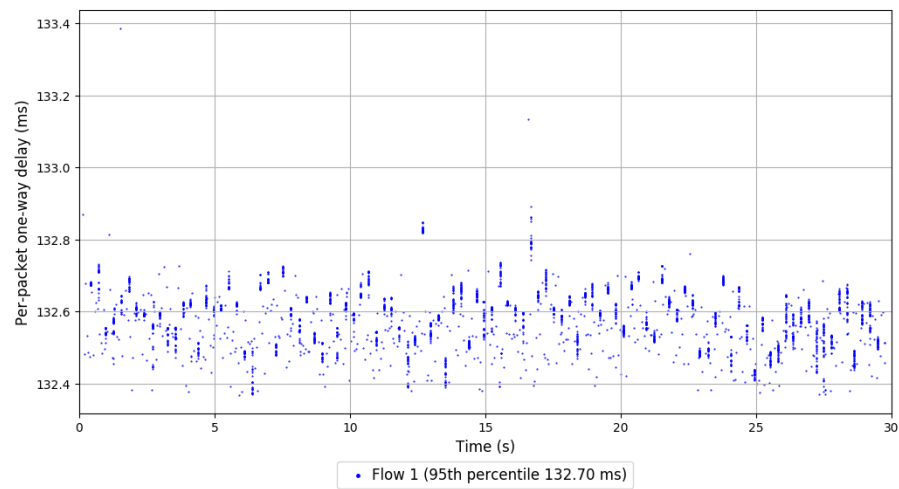
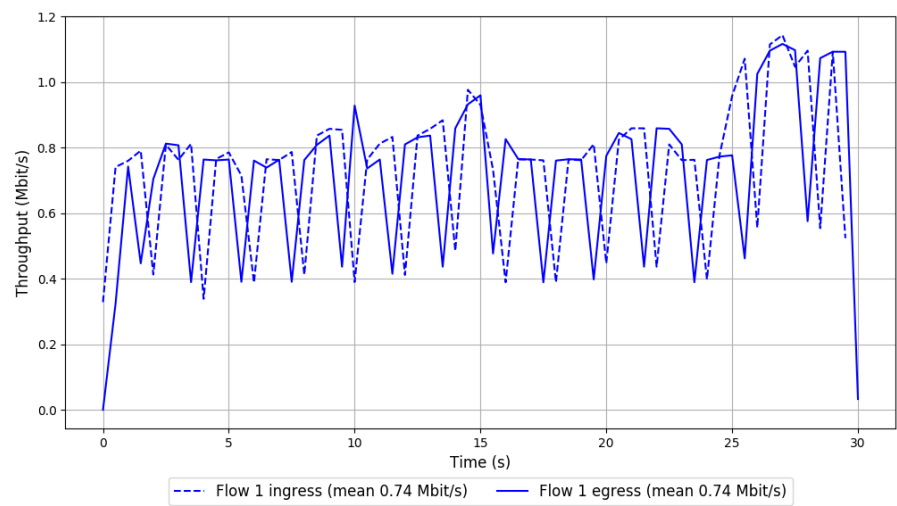


Run 2: Statistics of Sprout

Start at: 2019-08-27 04:58:01
End at: 2019-08-27 04:58:31
Local clock offset: 0.285 ms
Remote clock offset: -0.142 ms

Below is generated by plot.py at 2019-08-27 08:26:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.74 Mbit/s
95th percentile per-packet one-way delay: 132.699 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 0.74 Mbit/s
95th percentile per-packet one-way delay: 132.699 ms
Loss rate: 1.12%

Run 2: Report of Sprout — Data Link

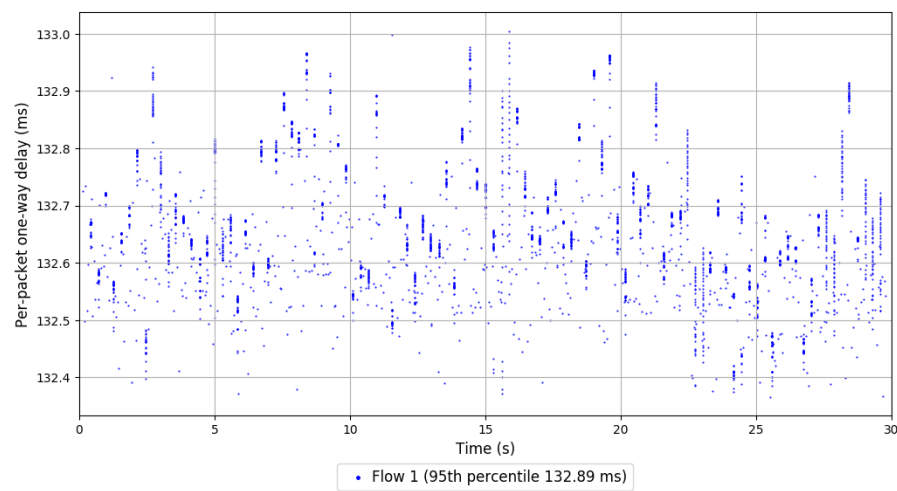
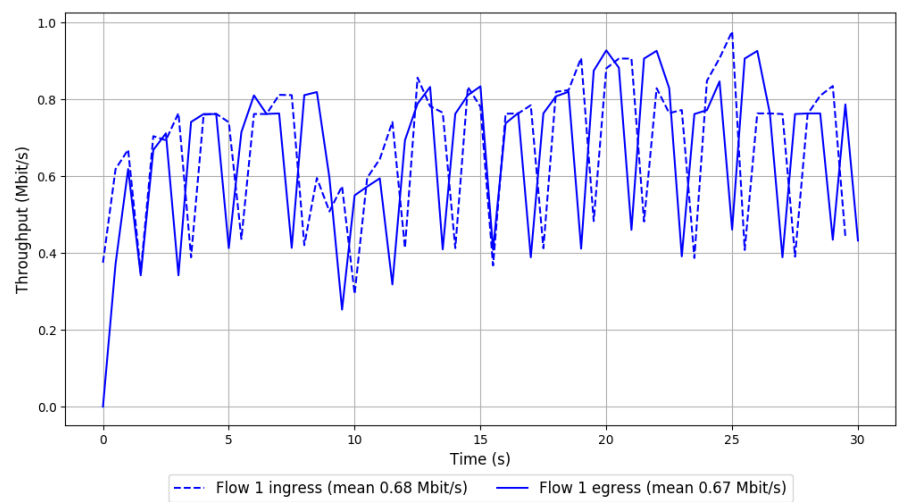


Run 3: Statistics of Sprout

Start at: 2019-08-27 05:34:08
End at: 2019-08-27 05:34:38
Local clock offset: -0.086 ms
Remote clock offset: -0.151 ms

Below is generated by plot.py at 2019-08-27 08:26:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 132.892 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 132.892 ms
Loss rate: 1.08%

Run 3: Report of Sprout — Data Link

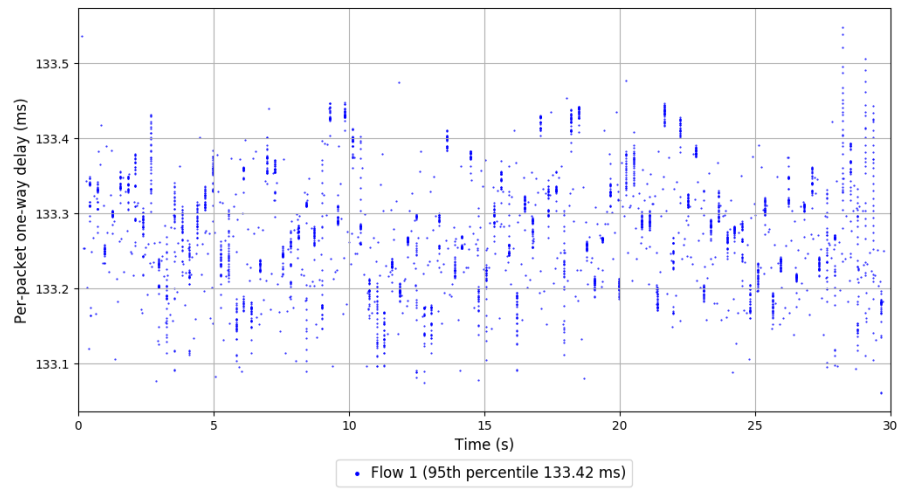
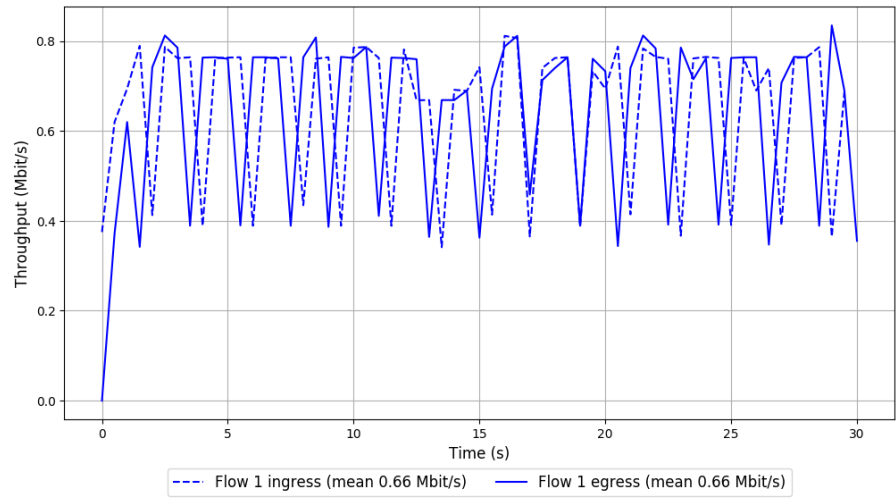


Run 4: Statistics of Sprout

Start at: 2019-08-27 06:10:07
End at: 2019-08-27 06:10:37
Local clock offset: 0.301 ms
Remote clock offset: -0.174 ms

Below is generated by plot.py at 2019-08-27 08:26:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 133.423 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 133.423 ms
Loss rate: 0.86%

Run 4: Report of Sprout — Data Link

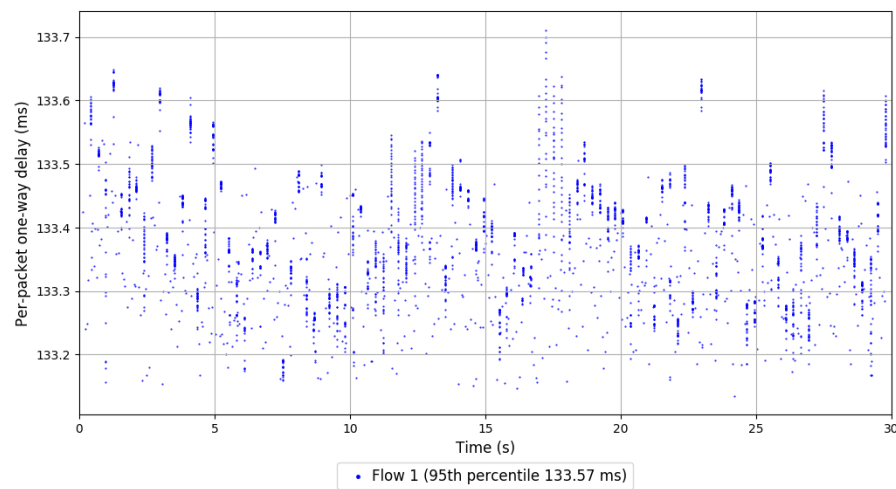
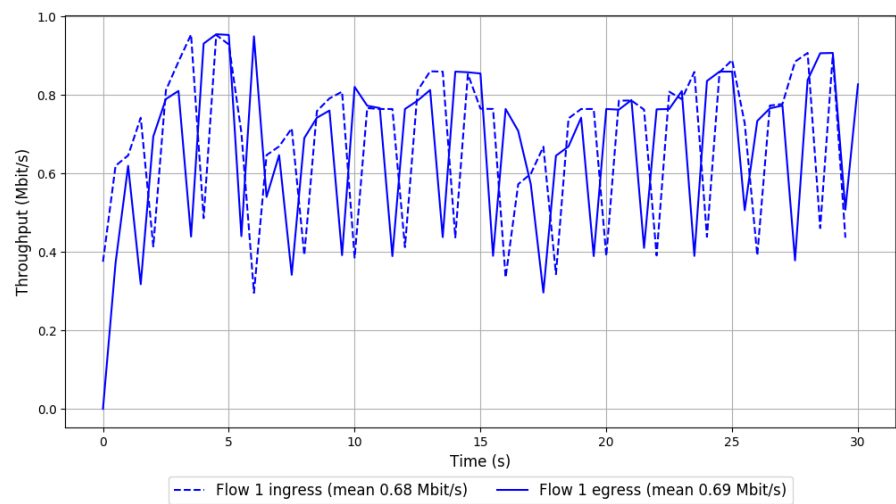


Run 5: Statistics of Sprout

Start at: 2019-08-27 06:46:30
End at: 2019-08-27 06:47:00
Local clock offset: 0.426 ms
Remote clock offset: -0.176 ms

Below is generated by plot.py at 2019-08-27 08:26:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.69 Mbit/s
95th percentile per-packet one-way delay: 133.572 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.69 Mbit/s
95th percentile per-packet one-way delay: 133.572 ms
Loss rate: 0.02%

Run 5: Report of Sprout — Data Link

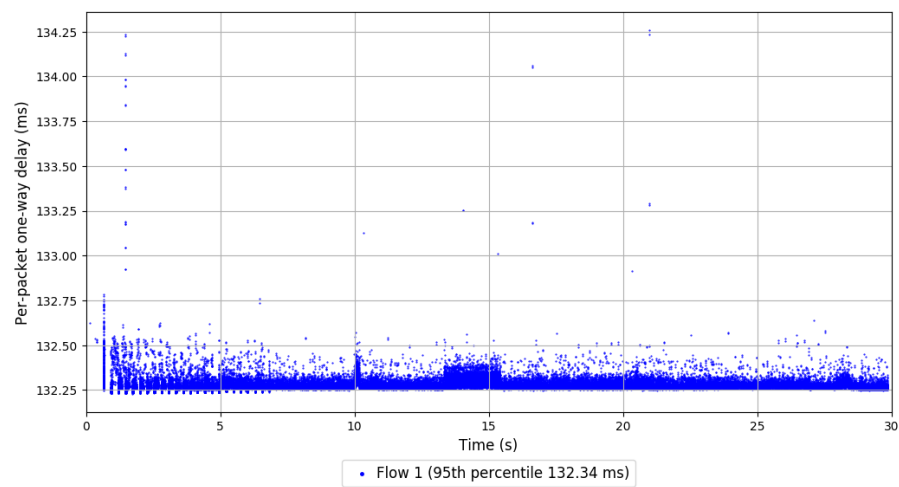
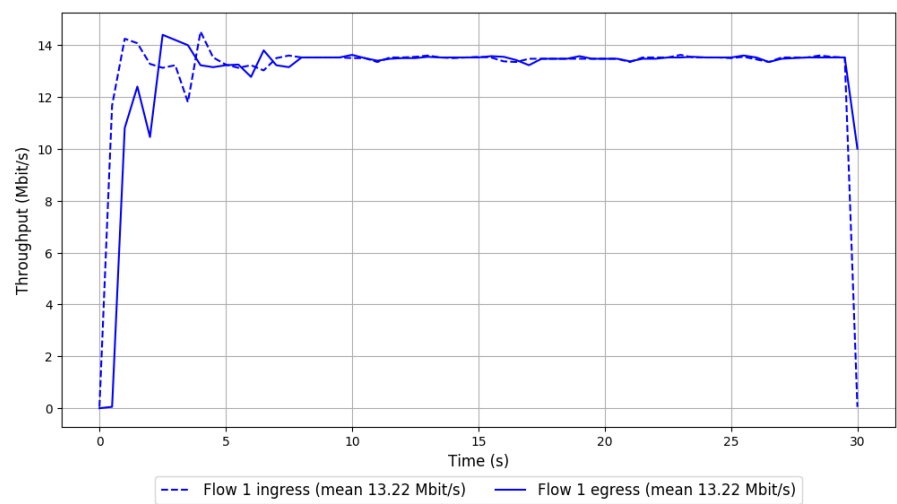


```
Run 1: Statistics of TaoVA-100x

Start at: 2019-08-27 04:12:08
End at: 2019-08-27 04:12:38
Local clock offset: -0.0 ms
Remote clock offset: 0.036 ms

# Below is generated by plot.py at 2019-08-27 08:26:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.22 Mbit/s
95th percentile per-packet one-way delay: 132.339 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 13.22 Mbit/s
95th percentile per-packet one-way delay: 132.339 ms
Loss rate: 0.91%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-08-27 04:47:44

End at: 2019-08-27 04:48:14

Local clock offset: -0.526 ms

Remote clock offset: -0.087 ms

Below is generated by plot.py at 2019-08-27 08:26:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.80 Mbit/s

95th percentile per-packet one-way delay: 132.468 ms

Loss rate: 1.02%

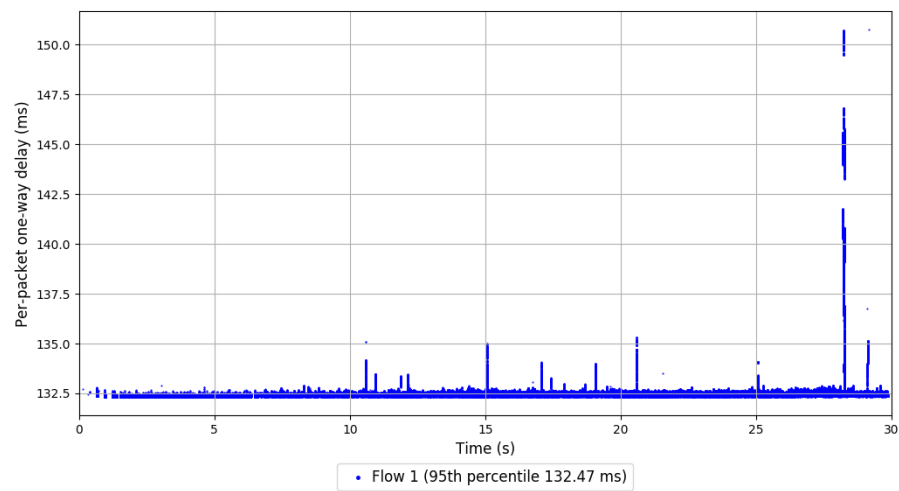
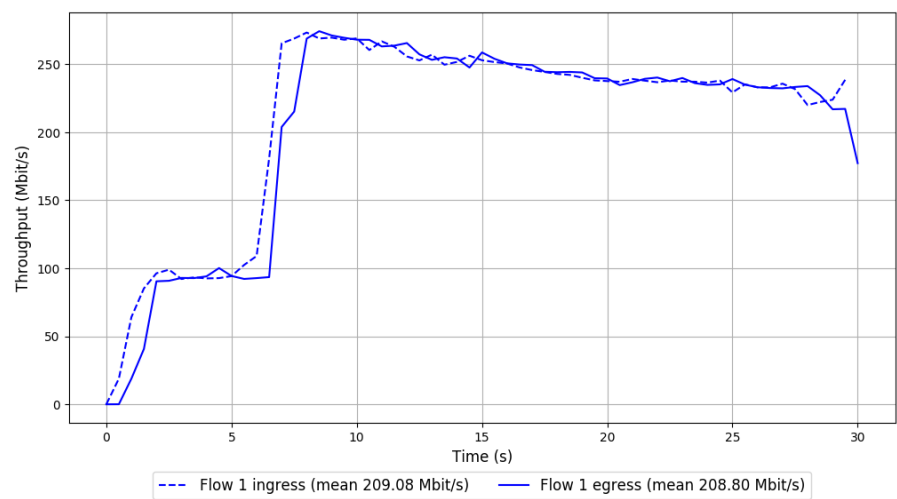
-- Flow 1:

Average throughput: 208.80 Mbit/s

95th percentile per-packet one-way delay: 132.468 ms

Loss rate: 1.02%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-08-27 05:23:53

End at: 2019-08-27 05:24:23

Local clock offset: -0.502 ms

Remote clock offset: -0.128 ms

Below is generated by plot.py at 2019-08-27 08:26:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.18 Mbit/s

95th percentile per-packet one-way delay: 132.485 ms

Loss rate: 0.90%

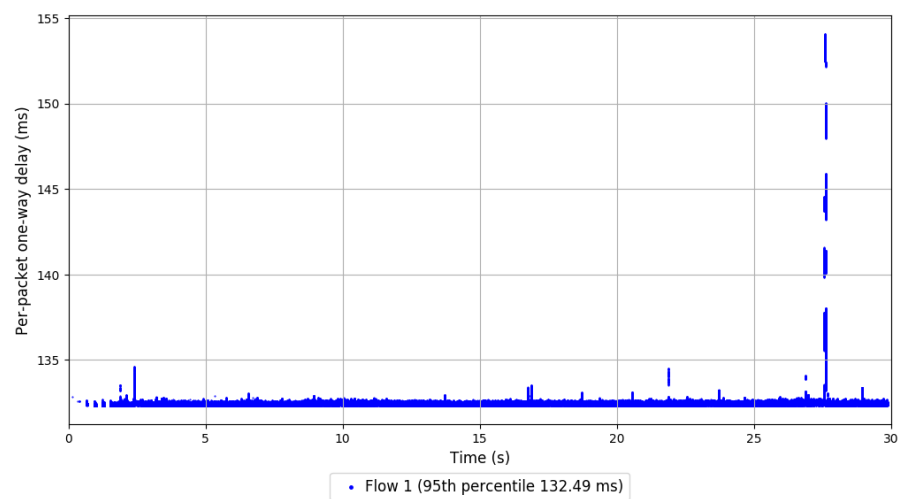
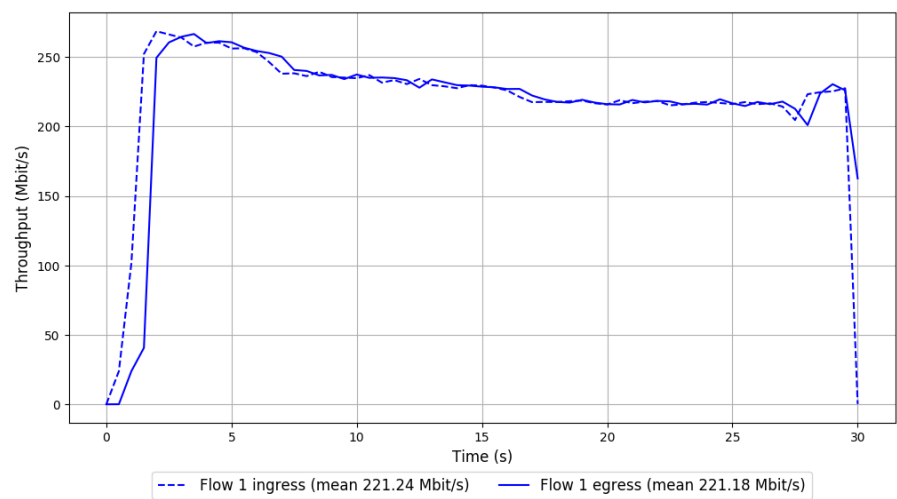
-- Flow 1:

Average throughput: 221.18 Mbit/s

95th percentile per-packet one-way delay: 132.485 ms

Loss rate: 0.90%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-08-27 05:59:40

End at: 2019-08-27 06:00:10

Local clock offset: 0.017 ms

Remote clock offset: -0.194 ms

Below is generated by plot.py at 2019-08-27 08:26:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.49 Mbit/s

95th percentile per-packet one-way delay: 132.464 ms

Loss rate: 0.91%

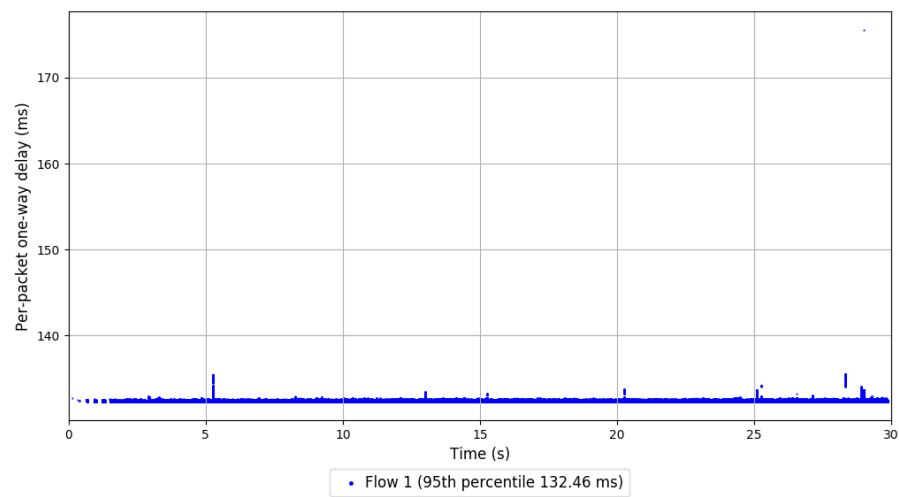
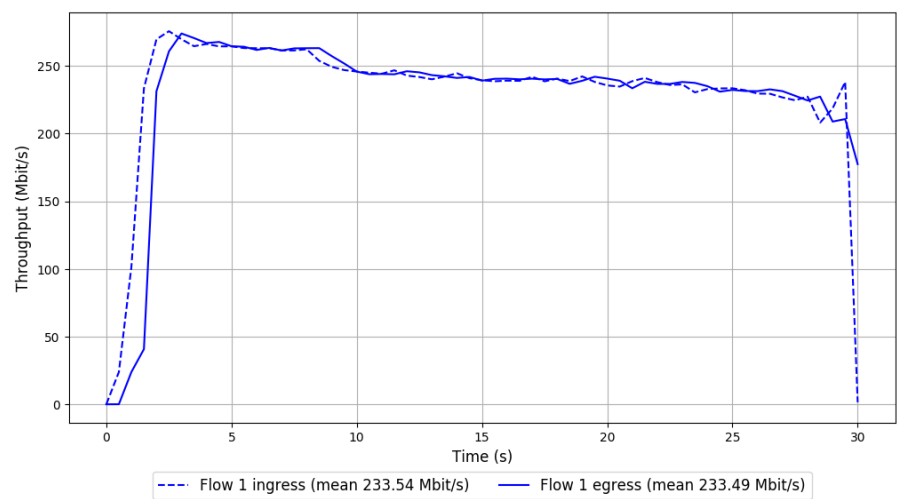
-- Flow 1:

Average throughput: 233.49 Mbit/s

95th percentile per-packet one-way delay: 132.464 ms

Loss rate: 0.91%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-08-27 06:35:54

End at: 2019-08-27 06:36:25

Local clock offset: 0.033 ms

Remote clock offset: -0.202 ms

Below is generated by plot.py at 2019-08-27 08:26:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 236.79 Mbit/s

95th percentile per-packet one-way delay: 133.180 ms

Loss rate: 0.90%

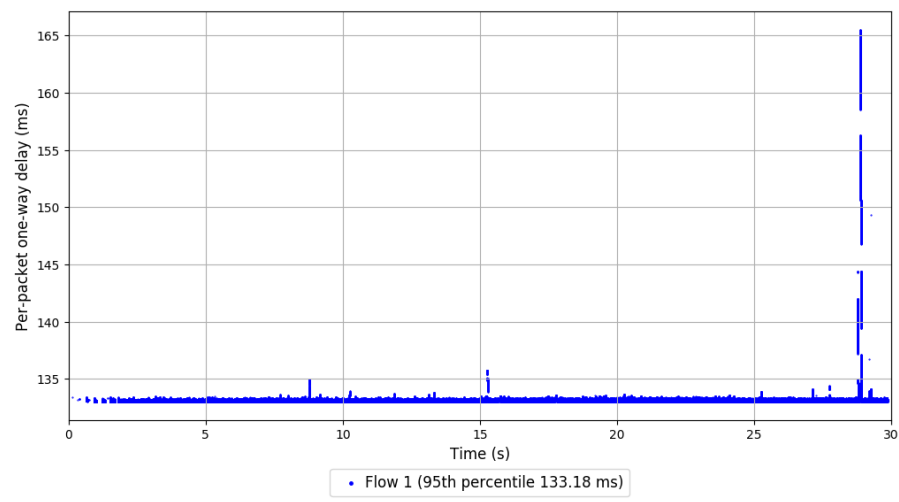
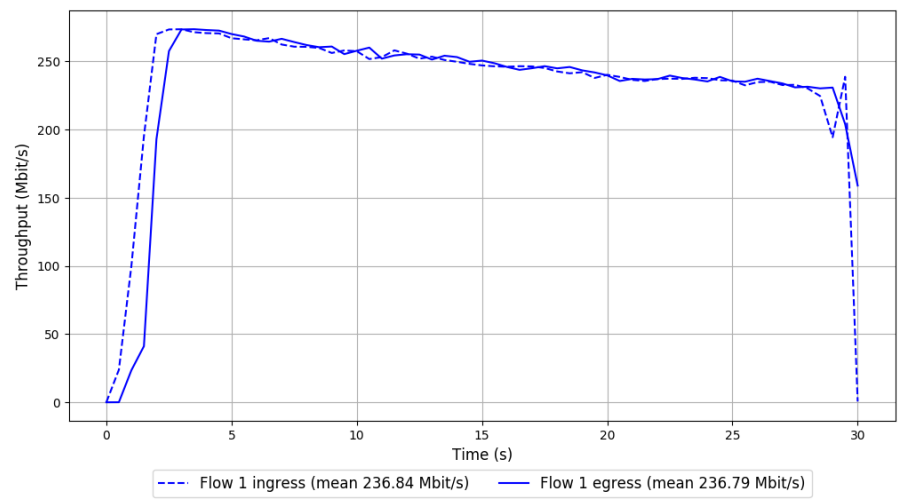
-- Flow 1:

Average throughput: 236.79 Mbit/s

95th percentile per-packet one-way delay: 133.180 ms

Loss rate: 0.90%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-08-27 03:59:04

End at: 2019-08-27 03:59:34

Local clock offset: 0.017 ms

Remote clock offset: -0.022 ms

Below is generated by plot.py at 2019-08-27 08:26:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 324.29 Mbit/s

95th percentile per-packet one-way delay: 133.617 ms

Loss rate: 0.66%

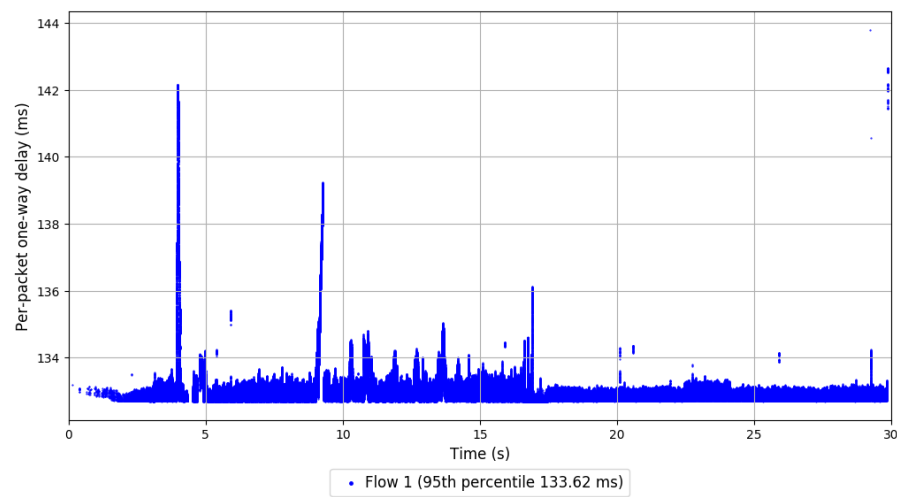
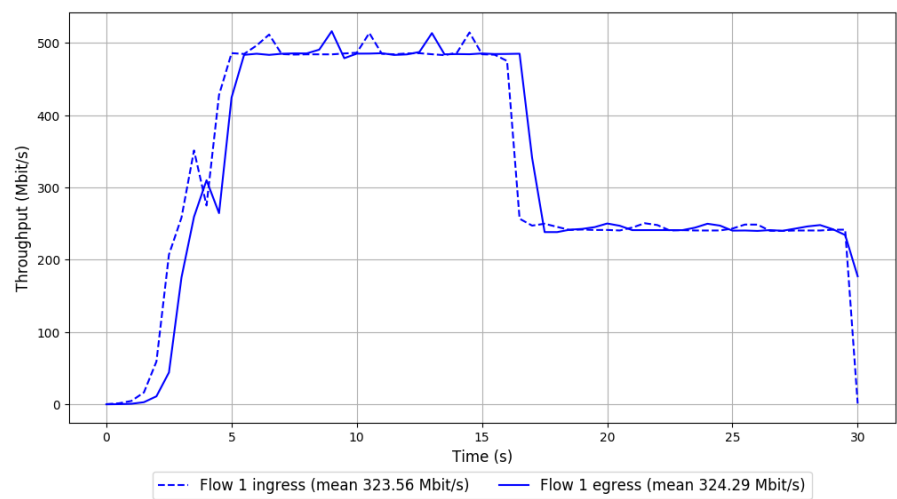
-- Flow 1:

Average throughput: 324.29 Mbit/s

95th percentile per-packet one-way delay: 133.617 ms

Loss rate: 0.66%

Run 1: Report of TCP Vegas — Data Link

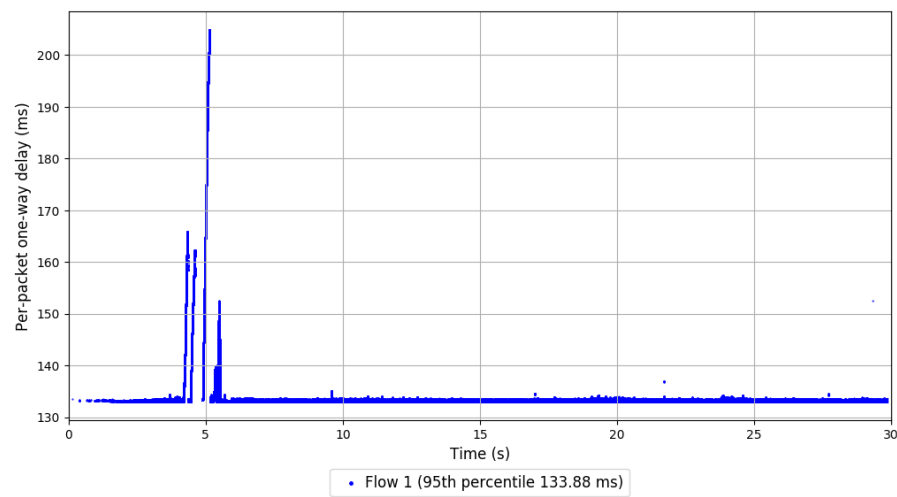
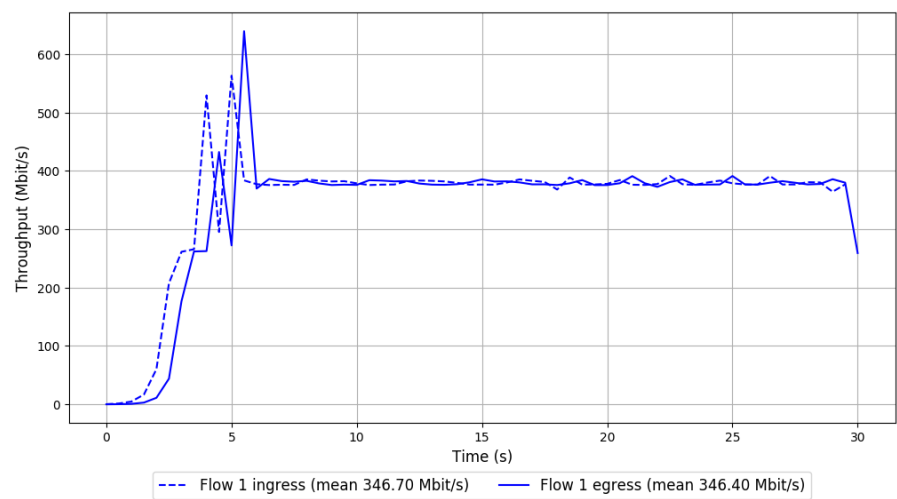


Run 2: Statistics of TCP Vegas

Start at: 2019-08-27 04:34:27
End at: 2019-08-27 04:34:57
Local clock offset: 0.27 ms
Remote clock offset: -0.394 ms

Below is generated by plot.py at 2019-08-27 08:26:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 346.40 Mbit/s
95th percentile per-packet one-way delay: 133.881 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 346.40 Mbit/s
95th percentile per-packet one-way delay: 133.881 ms
Loss rate: 0.97%

Run 2: Report of TCP Vegas — Data Link

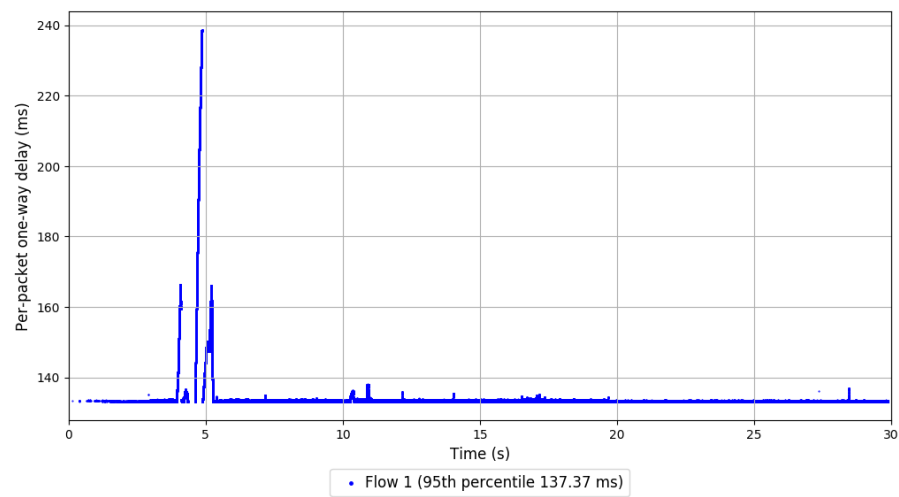
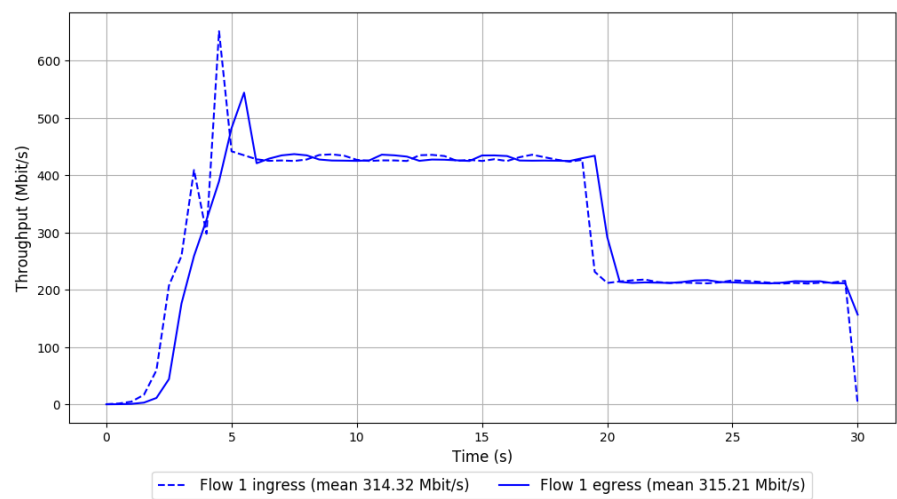


Run 3: Statistics of TCP Vegas

Start at: 2019-08-27 05:10:38
End at: 2019-08-27 05:11:08
Local clock offset: 0.346 ms
Remote clock offset: -0.082 ms

Below is generated by plot.py at 2019-08-27 08:30:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 315.21 Mbit/s
95th percentile per-packet one-way delay: 137.370 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 315.21 Mbit/s
95th percentile per-packet one-way delay: 137.370 ms
Loss rate: 0.60%

Run 3: Report of TCP Vegas — Data Link

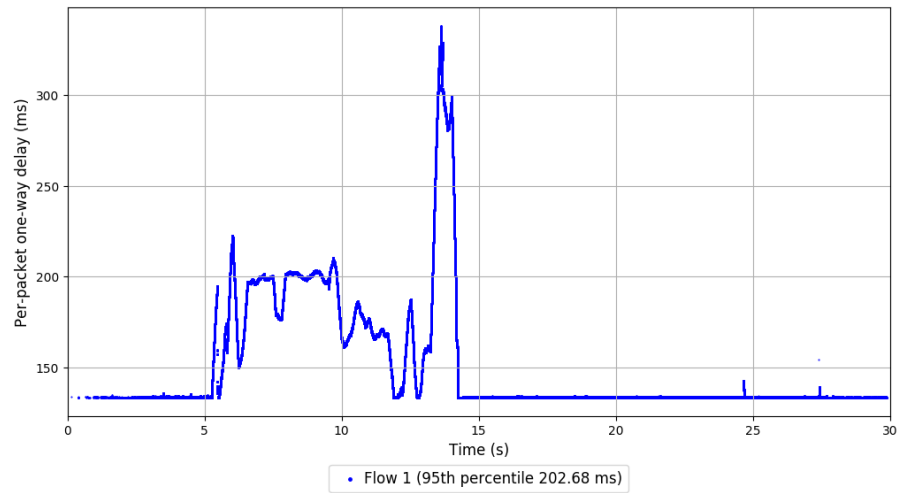
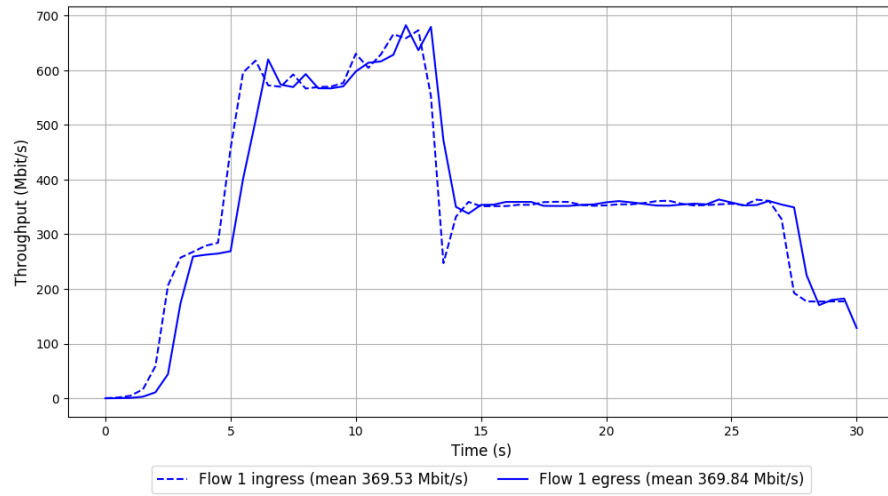


Run 4: Statistics of TCP Vegas

Start at: 2019-08-27 05:46:13
End at: 2019-08-27 05:46:43
Local clock offset: 0.411 ms
Remote clock offset: -0.162 ms

Below is generated by plot.py at 2019-08-27 08:30:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 369.84 Mbit/s
95th percentile per-packet one-way delay: 202.682 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 369.84 Mbit/s
95th percentile per-packet one-way delay: 202.682 ms
Loss rate: 0.80%

Run 4: Report of TCP Vegas — Data Link

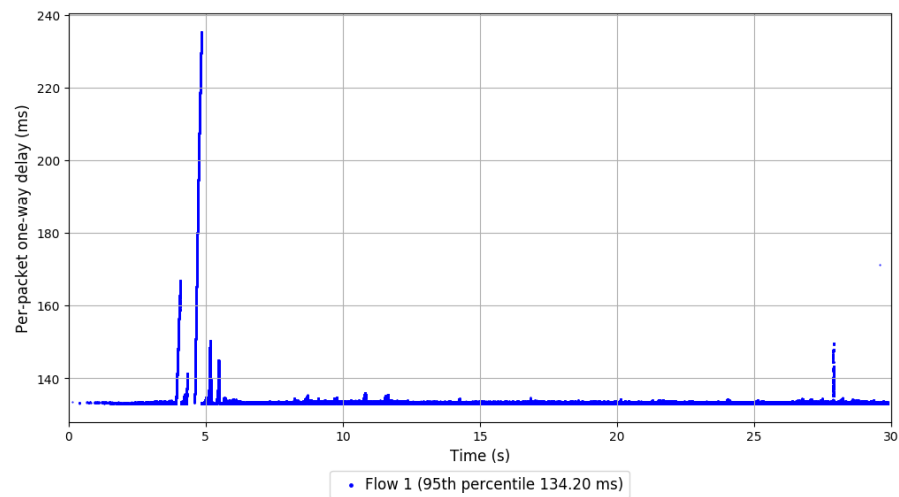
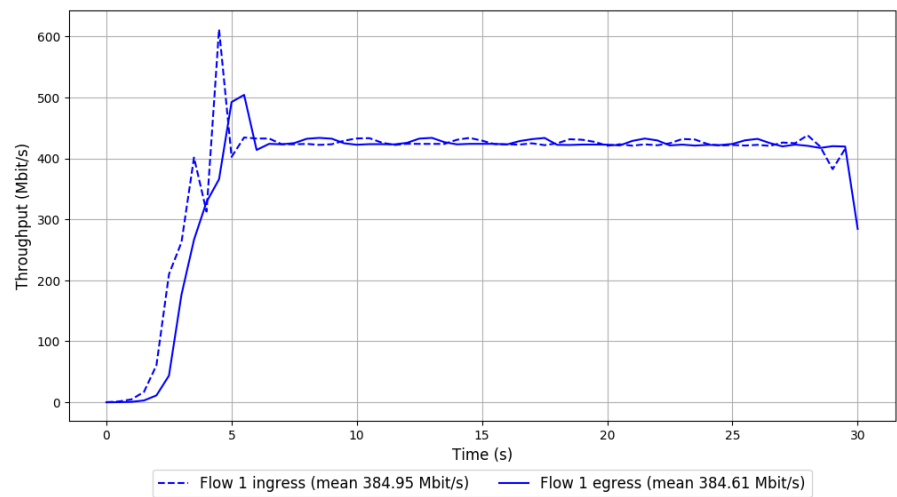


Run 5: Statistics of TCP Vegas

Start at: 2019-08-27 06:22:45
End at: 2019-08-27 06:23:15
Local clock offset: 0.372 ms
Remote clock offset: -0.196 ms

Below is generated by plot.py at 2019-08-27 08:31:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 384.61 Mbit/s
95th percentile per-packet one-way delay: 134.202 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 384.61 Mbit/s
95th percentile per-packet one-way delay: 134.202 ms
Loss rate: 0.97%

Run 5: Report of TCP Vegas — Data Link

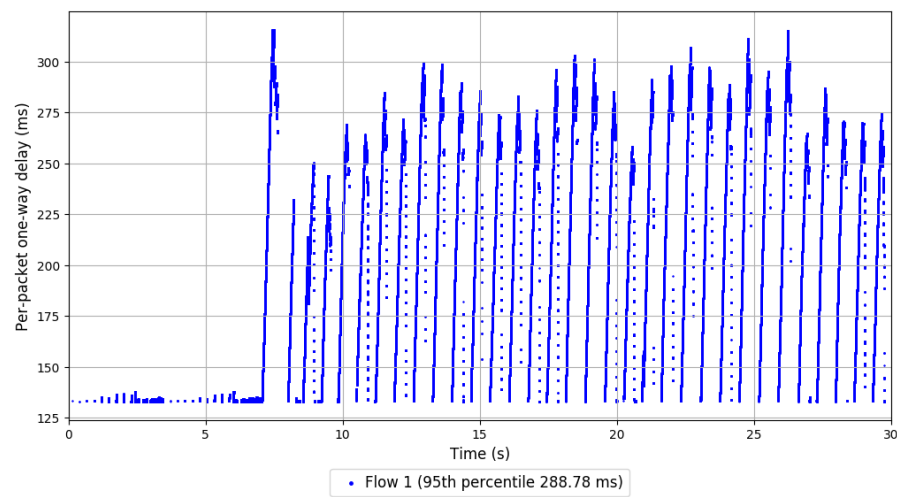
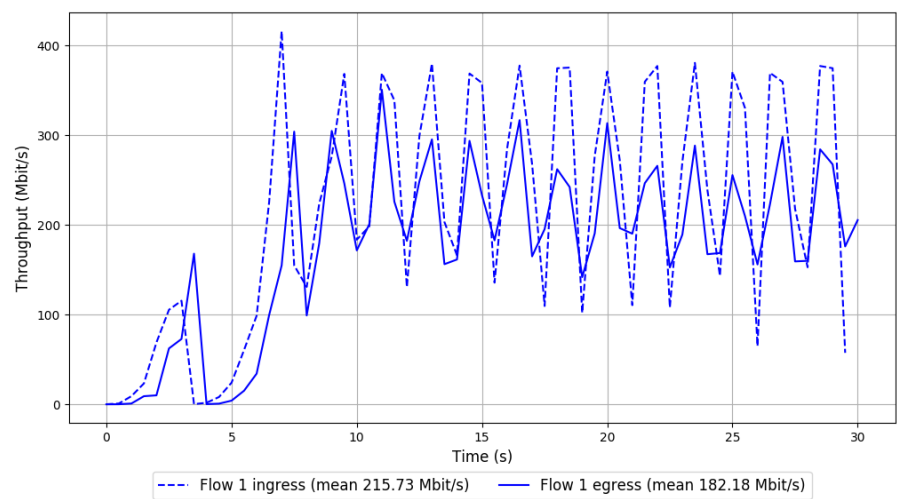


Run 1: Statistics of Verus

Start at: 2019-08-27 04:23:26
End at: 2019-08-27 04:23:56
Local clock offset: 0.008 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2019-08-27 08:31:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 182.18 Mbit/s
95th percentile per-packet one-way delay: 288.780 ms
Loss rate: 16.40%
-- Flow 1:
Average throughput: 182.18 Mbit/s
95th percentile per-packet one-way delay: 288.780 ms
Loss rate: 16.40%

Run 1: Report of Verus — Data Link

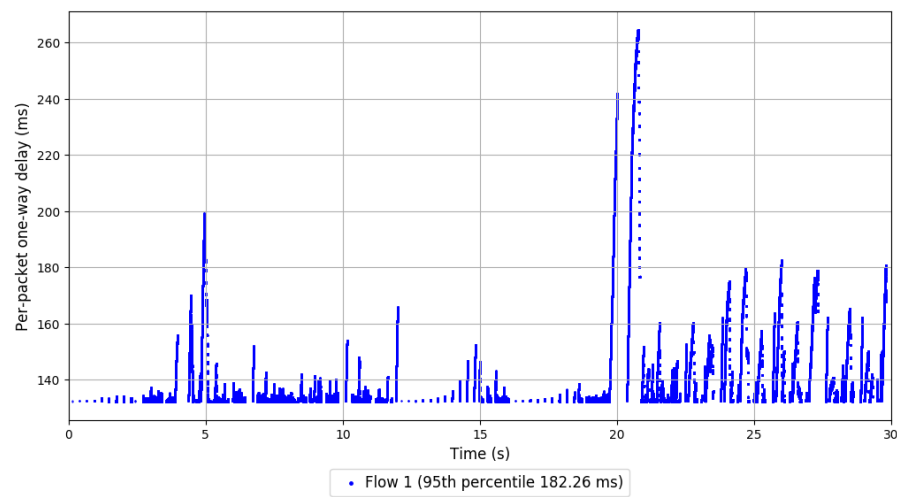
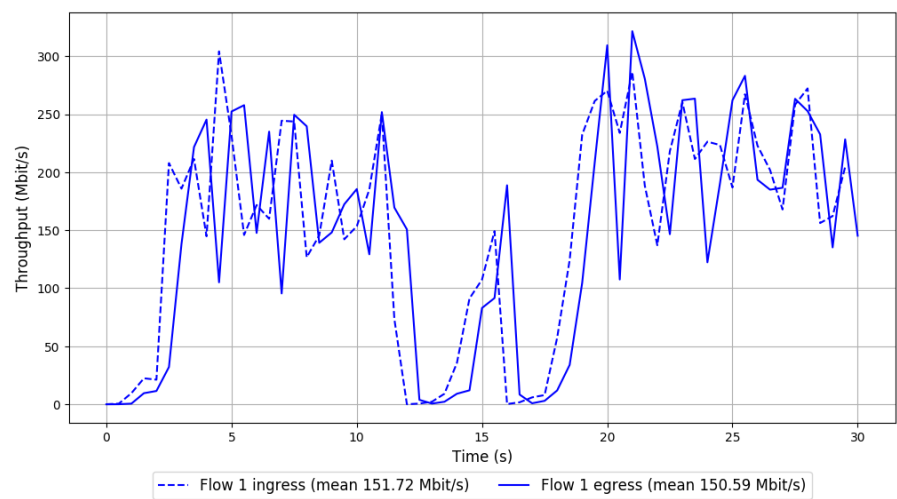


Run 2: Statistics of Verus

Start at: 2019-08-27 04:59:12
End at: 2019-08-27 04:59:42
Local clock offset: -0.131 ms
Remote clock offset: -0.118 ms

Below is generated by plot.py at 2019-08-27 08:31:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 150.59 Mbit/s
95th percentile per-packet one-way delay: 182.260 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 150.59 Mbit/s
95th percentile per-packet one-way delay: 182.260 ms
Loss rate: 1.00%

Run 2: Report of Verus — Data Link

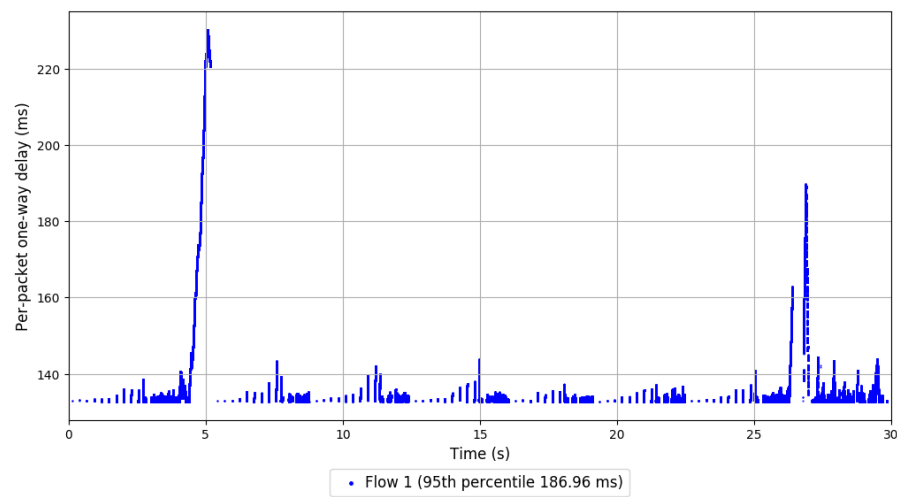
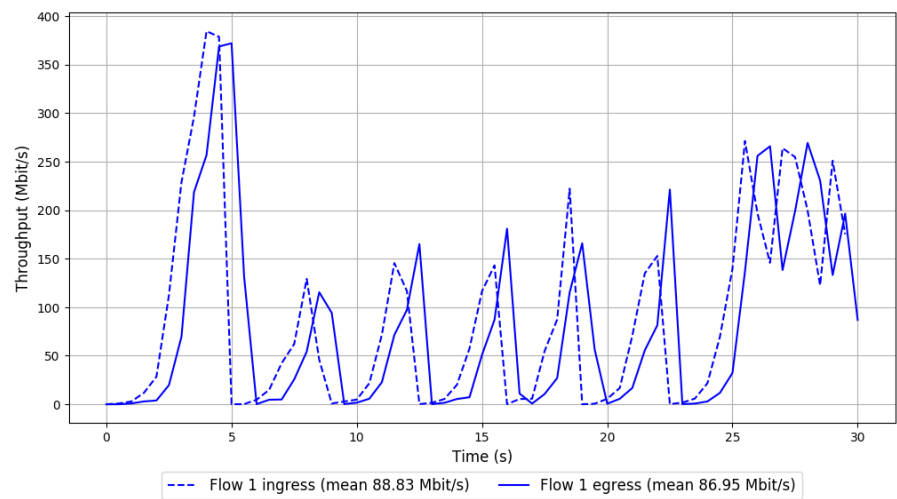


Run 3: Statistics of Verus

Start at: 2019-08-27 05:35:19
End at: 2019-08-27 05:35:49
Local clock offset: -0.181 ms
Remote clock offset: -0.126 ms

Below is generated by plot.py at 2019-08-27 08:31:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.95 Mbit/s
95th percentile per-packet one-way delay: 186.963 ms
Loss rate: 2.99%
-- Flow 1:
Average throughput: 86.95 Mbit/s
95th percentile per-packet one-way delay: 186.963 ms
Loss rate: 2.99%

Run 3: Report of Verus — Data Link

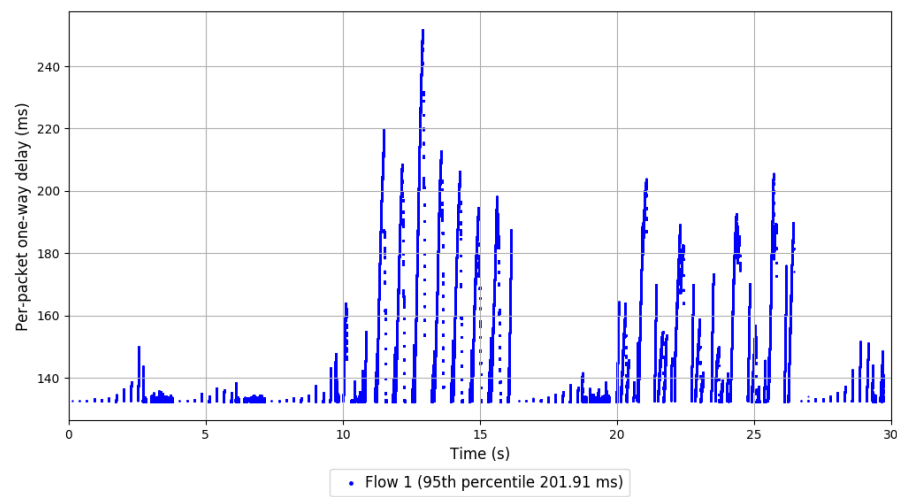
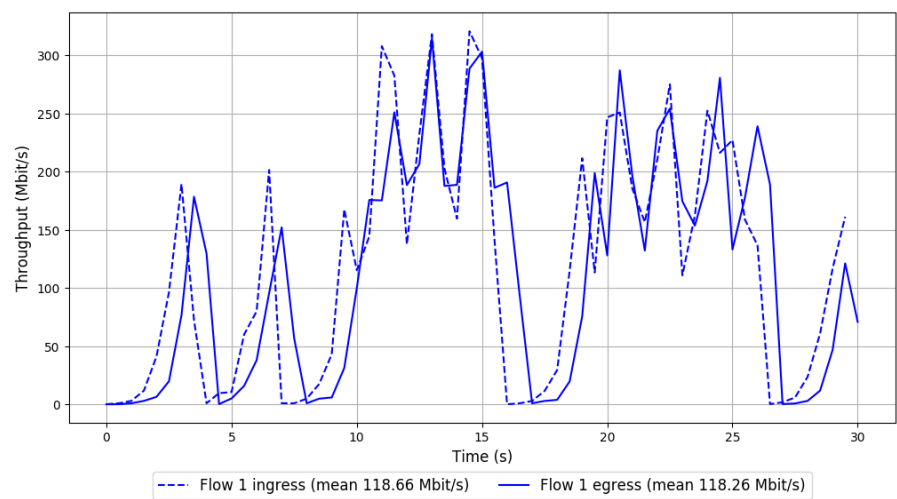


Run 4: Statistics of Verus

Start at: 2019-08-27 06:11:17
End at: 2019-08-27 06:11:47
Local clock offset: 0.003 ms
Remote clock offset: -0.182 ms

Below is generated by plot.py at 2019-08-27 08:31:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 118.26 Mbit/s
95th percentile per-packet one-way delay: 201.913 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 118.26 Mbit/s
95th percentile per-packet one-way delay: 201.913 ms
Loss rate: 1.63%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-08-27 06:47:41

End at: 2019-08-27 06:48:11

Local clock offset: -0.038 ms

Remote clock offset: -0.23 ms

Below is generated by plot.py at 2019-08-27 08:31:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.23 Mbit/s

95th percentile per-packet one-way delay: 136.743 ms

Loss rate: 2.03%

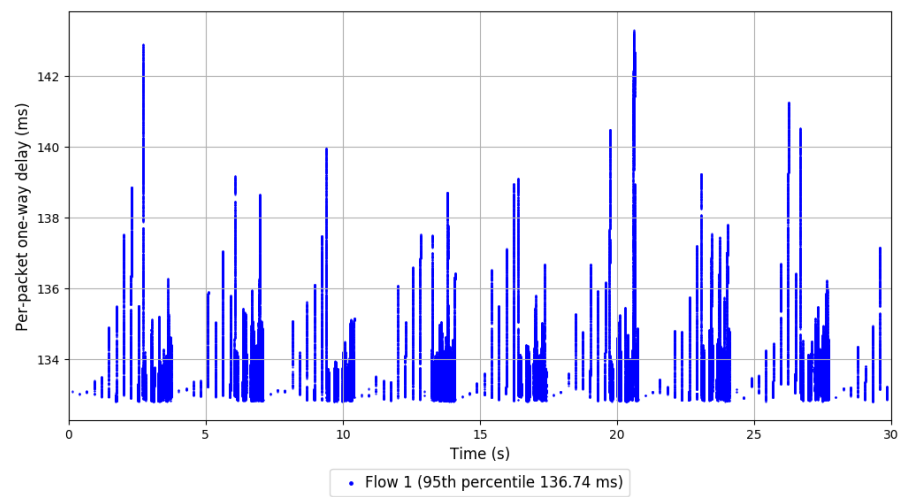
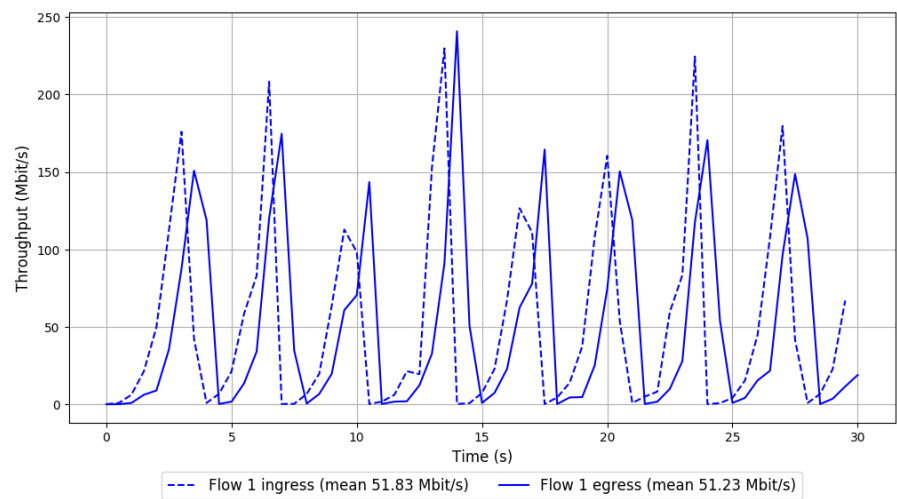
-- Flow 1:

Average throughput: 51.23 Mbit/s

95th percentile per-packet one-way delay: 136.743 ms

Loss rate: 2.03%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-08-27 04:17:32

End at: 2019-08-27 04:18:02

Local clock offset: -0.005 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2019-08-27 08:32:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 342.82 Mbit/s

95th percentile per-packet one-way delay: 132.858 ms

Loss rate: 1.10%

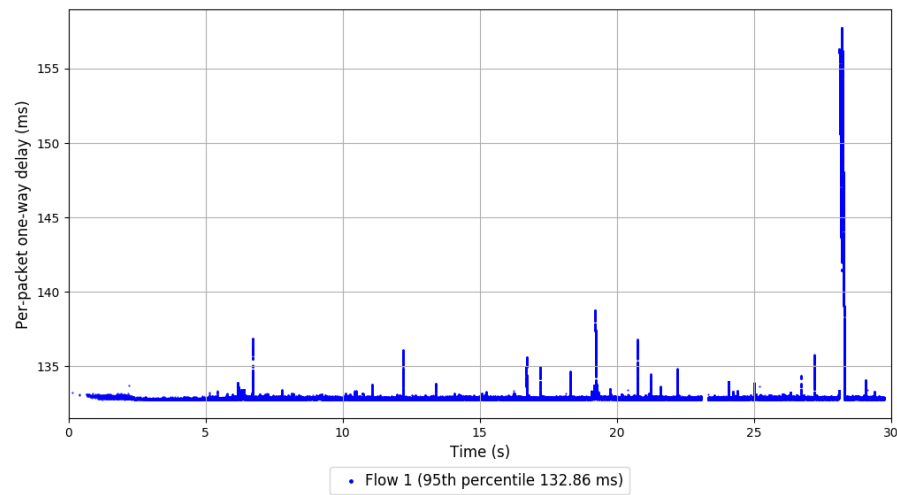
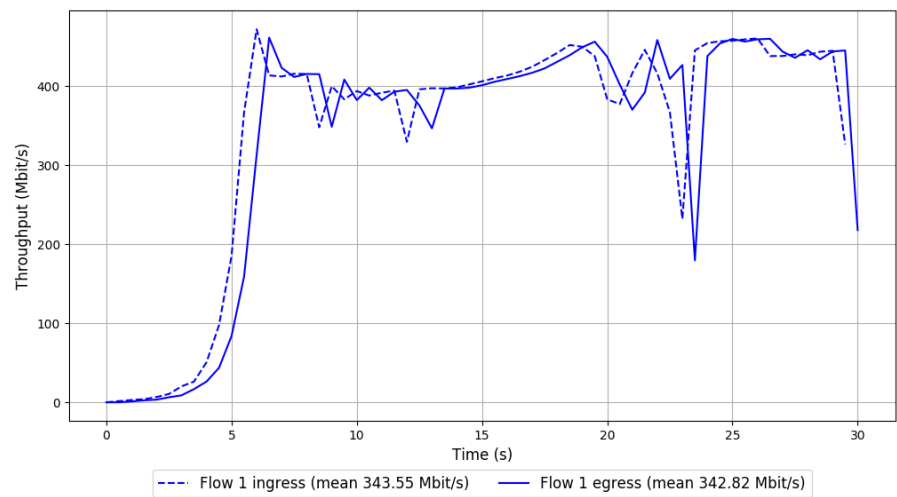
-- Flow 1:

Average throughput: 342.82 Mbit/s

95th percentile per-packet one-way delay: 132.858 ms

Loss rate: 1.10%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-08-27 04:53:23

End at: 2019-08-27 04:53:53

Local clock offset: -0.348 ms

Remote clock offset: 0.274 ms

Below is generated by plot.py at 2019-08-27 08:32:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.20 Mbit/s

95th percentile per-packet one-way delay: 141.897 ms

Loss rate: 1.00%

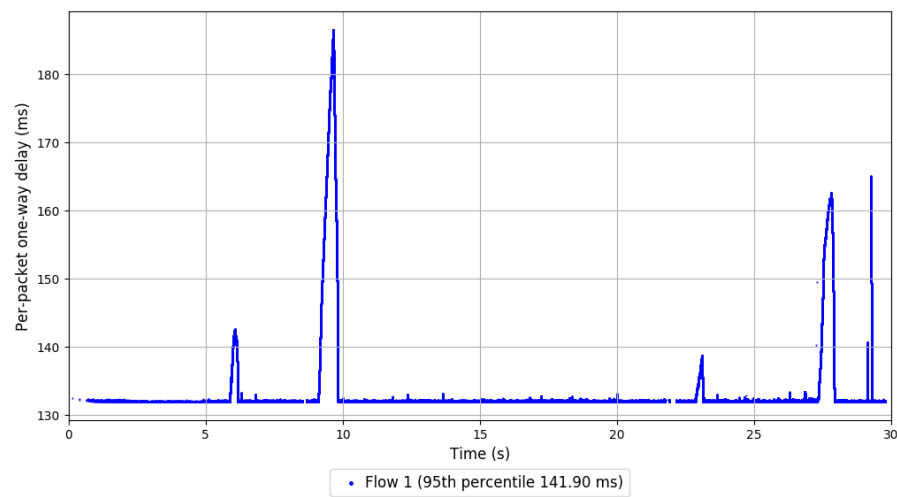
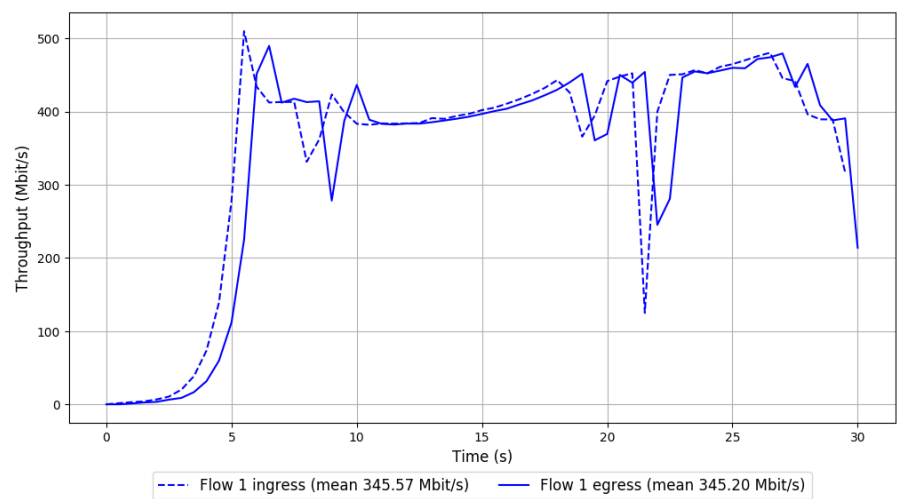
-- Flow 1:

Average throughput: 345.20 Mbit/s

95th percentile per-packet one-way delay: 141.897 ms

Loss rate: 1.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-08-27 05:29:32

End at: 2019-08-27 05:30:03

Local clock offset: -0.33 ms

Remote clock offset: -0.122 ms

Below is generated by plot.py at 2019-08-27 08:33:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 352.22 Mbit/s

95th percentile per-packet one-way delay: 140.098 ms

Loss rate: 1.02%

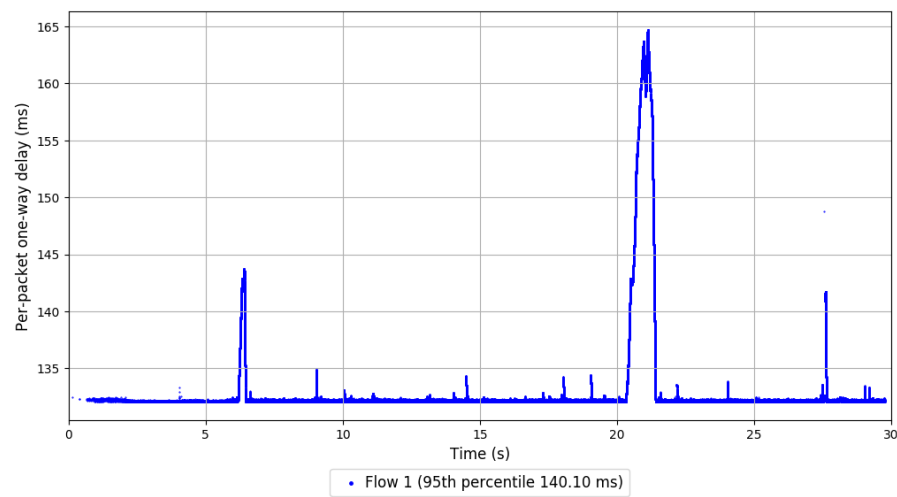
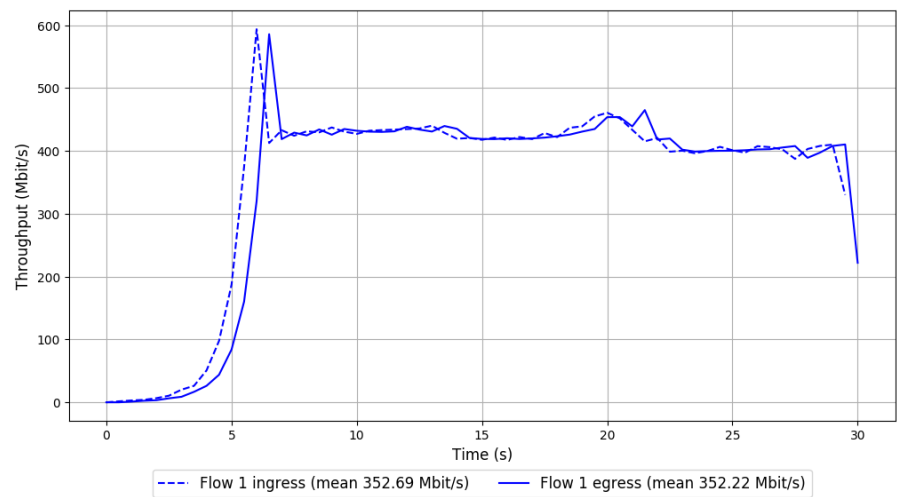
-- Flow 1:

Average throughput: 352.22 Mbit/s

95th percentile per-packet one-way delay: 140.098 ms

Loss rate: 1.02%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-08-27 06:05:24

End at: 2019-08-27 06:05:54

Local clock offset: -0.225 ms

Remote clock offset: -0.183 ms

Below is generated by plot.py at 2019-08-27 08:33:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 346.84 Mbit/s

95th percentile per-packet one-way delay: 168.202 ms

Loss rate: 1.11%

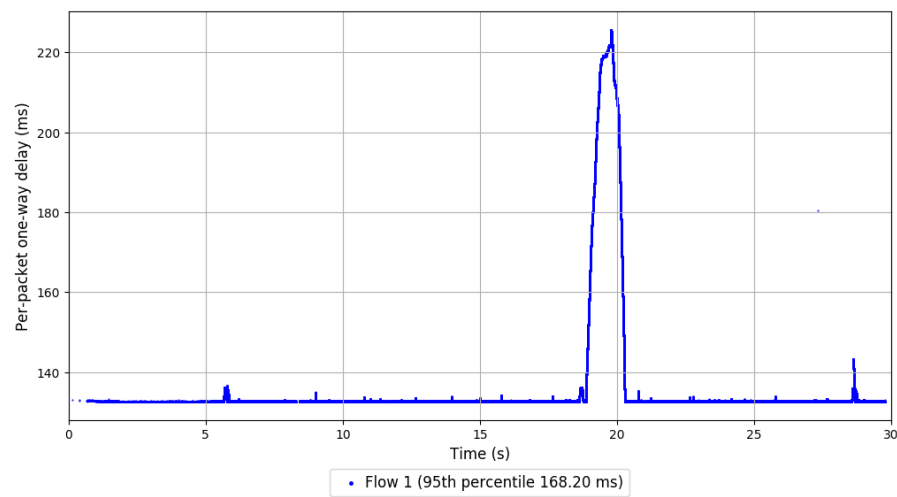
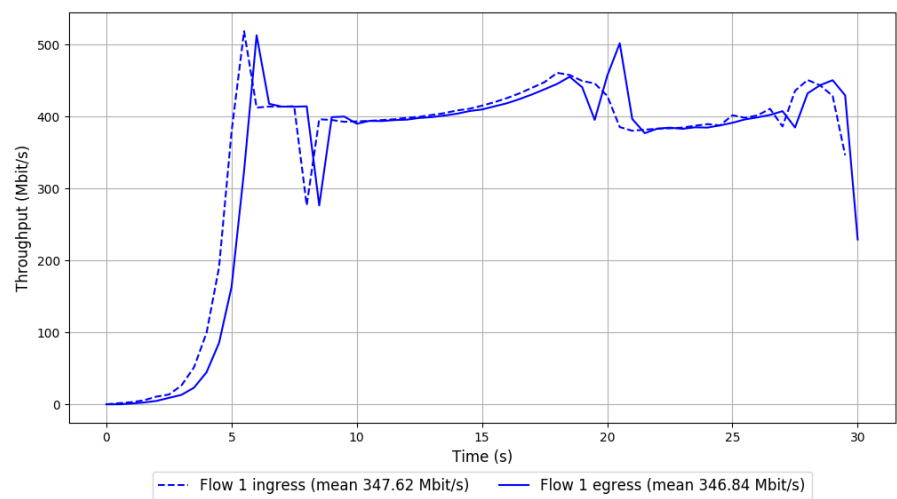
-- Flow 1:

Average throughput: 346.84 Mbit/s

95th percentile per-packet one-way delay: 168.202 ms

Loss rate: 1.11%

Run 4: Report of PCC-Vivace — Data Link

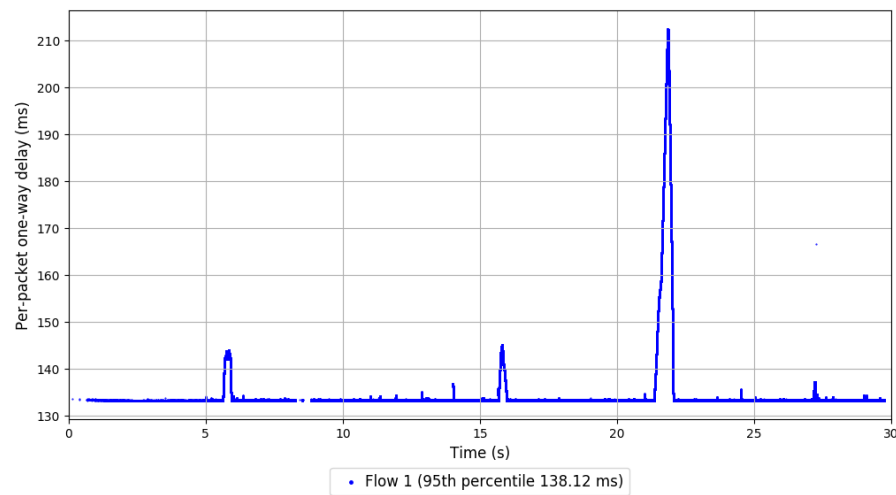
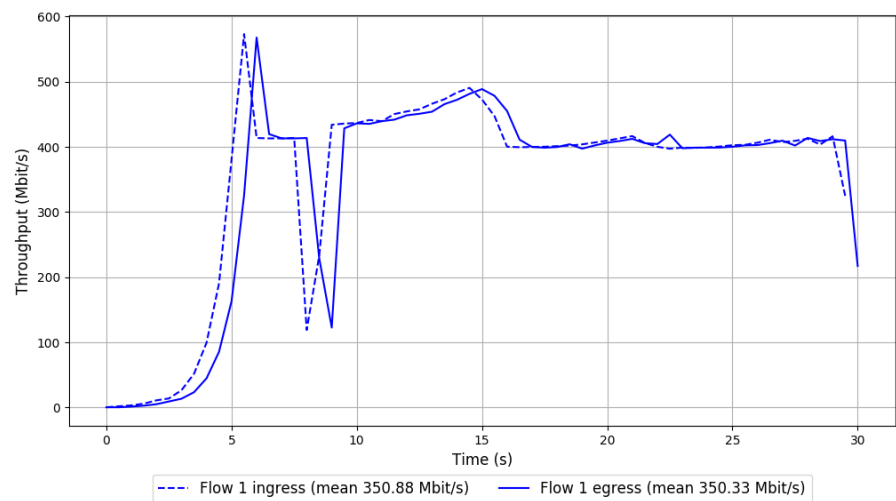


Run 5: Statistics of PCC-Vivace

Start at: 2019-08-27 06:41:49
End at: 2019-08-27 06:42:19
Local clock offset: 0.376 ms
Remote clock offset: -0.264 ms

Below is generated by plot.py at 2019-08-27 08:33:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 350.33 Mbit/s
95th percentile per-packet one-way delay: 138.121 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 350.33 Mbit/s
95th percentile per-packet one-way delay: 138.121 ms
Loss rate: 1.05%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

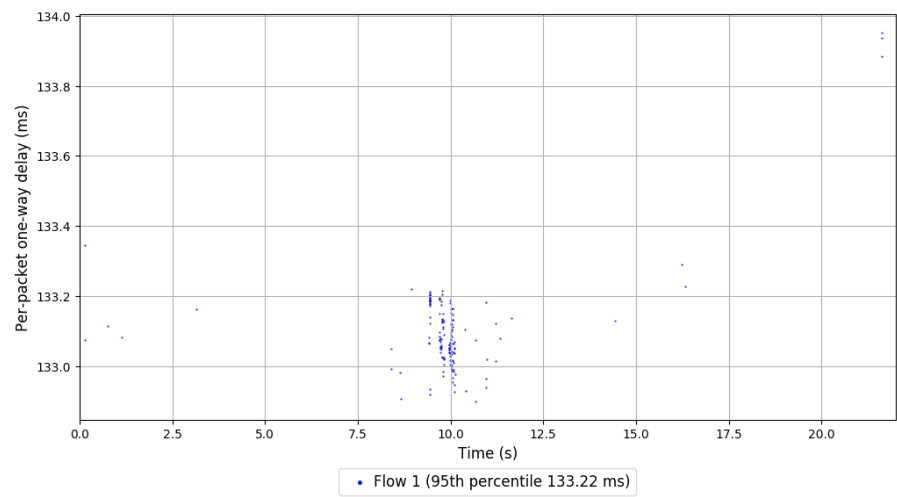
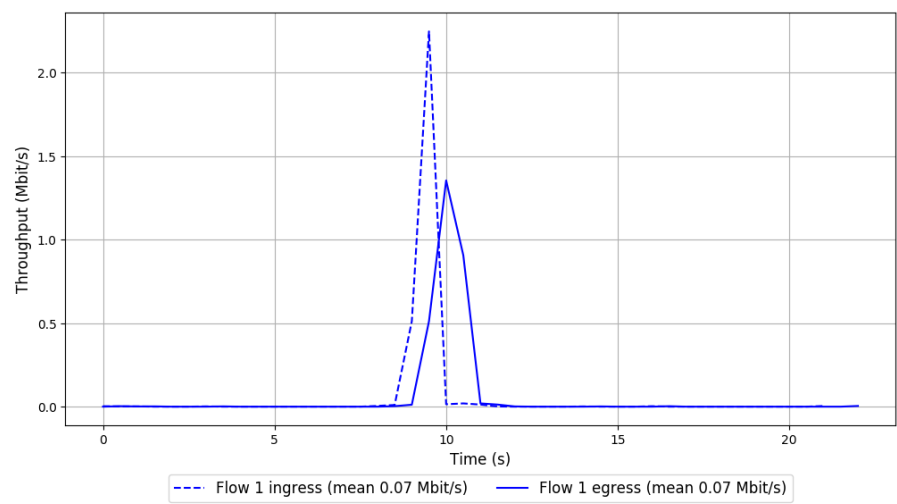
Start at: 2019-08-27 04:10:58

End at: 2019-08-27 04:11:28

Local clock offset: -0.171 ms

Remote clock offset: 0.034 ms

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-08-27 04:46:34

End at: 2019-08-27 04:47:04

Local clock offset: 0.261 ms

Remote clock offset: -0.097 ms

Below is generated by plot.py at 2019-08-27 08:33:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 133.352 ms

Loss rate: 0.00%

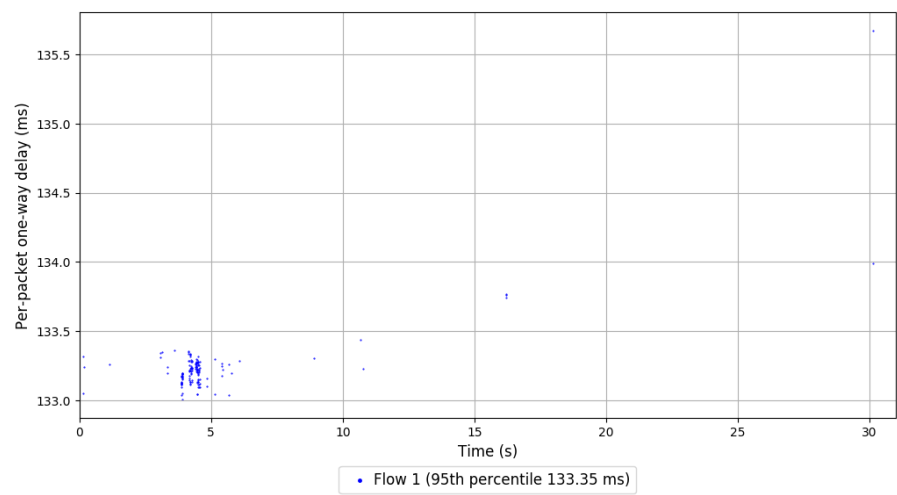
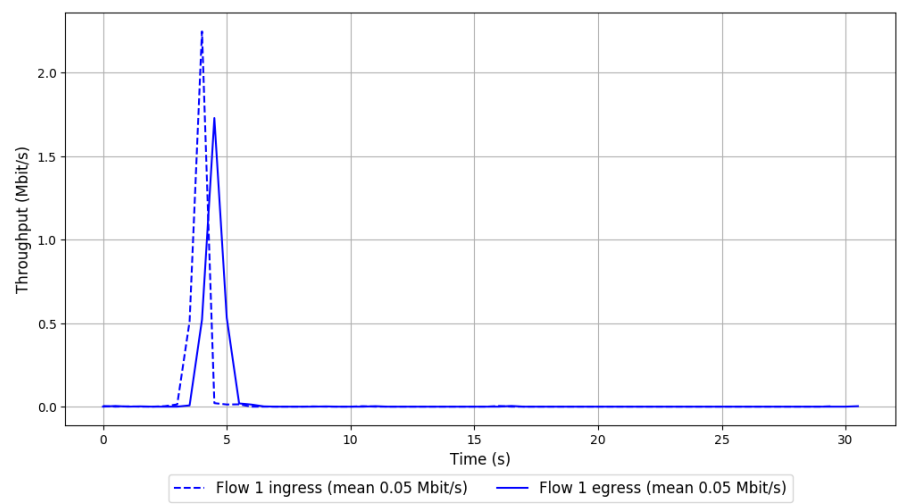
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 133.352 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

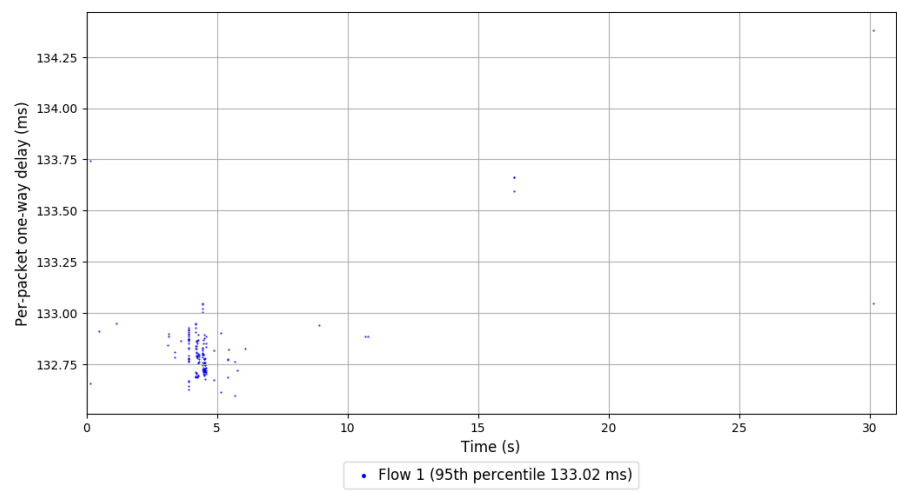
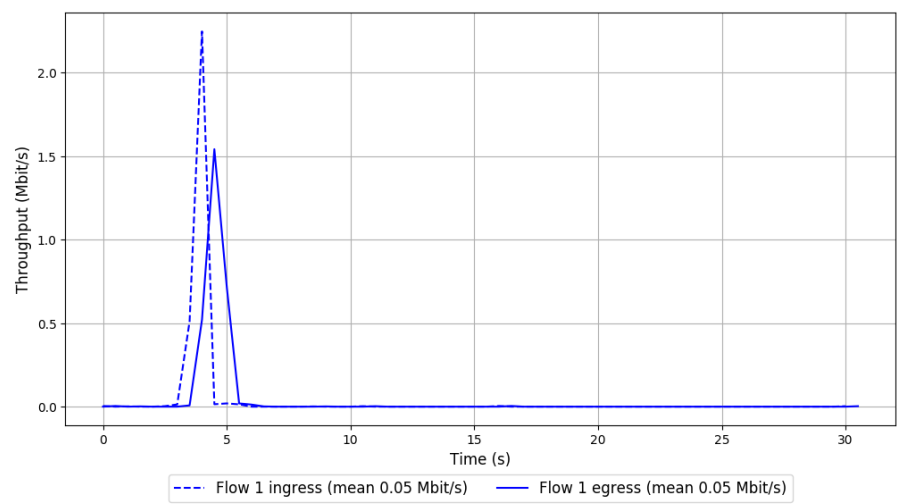


Run 3: Statistics of WebRTC media

Start at: 2019-08-27 05:22:43
End at: 2019-08-27 05:23:13
Local clock offset: -0.505 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2019-08-27 08:33:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.020 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.020 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-08-27 05:58:29

End at: 2019-08-27 05:59:00

Local clock offset: -0.311 ms

Remote clock offset: -0.52 ms

Below is generated by plot.py at 2019-08-27 08:33:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 133.264 ms

Loss rate: 0.00%

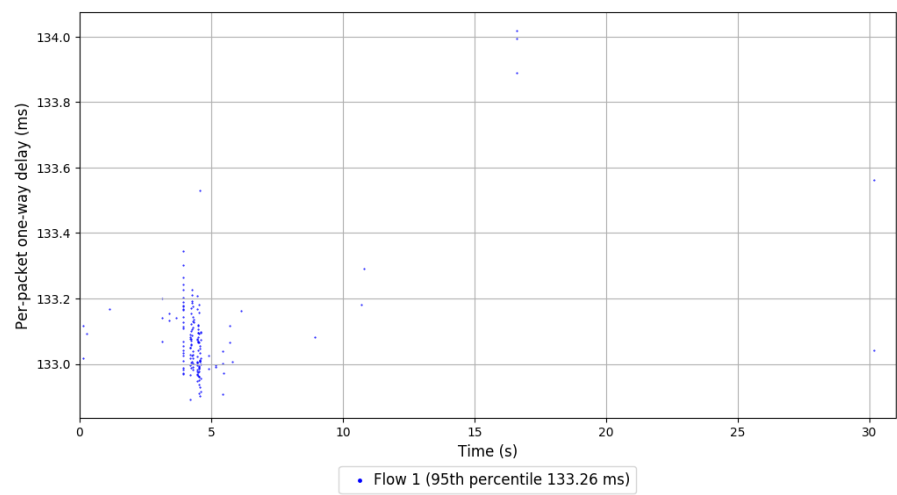
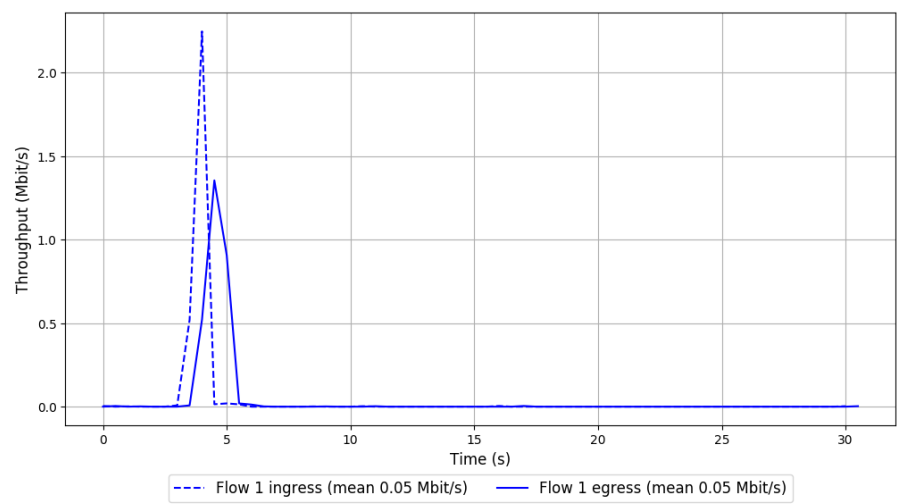
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 133.264 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-08-27 06:34:45
End at: 2019-08-27 06:35:15
Local clock offset: -0.202 ms
Remote clock offset: -0.198 ms

Below is generated by plot.py at 2019-08-27 08:33:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.044 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.044 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

