

Pantheon Report

Generated at 2019-07-13 01:45:46 (UTC).

Data path: GCE Tokyo 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:

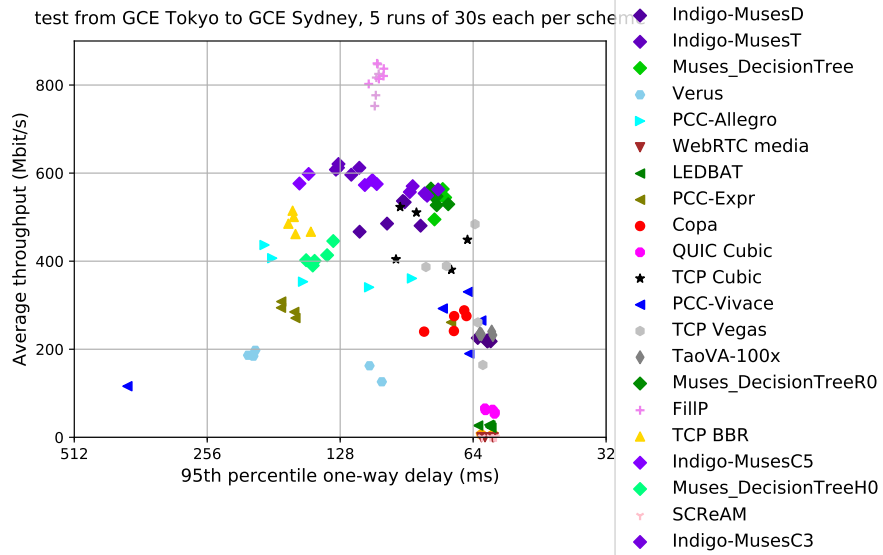
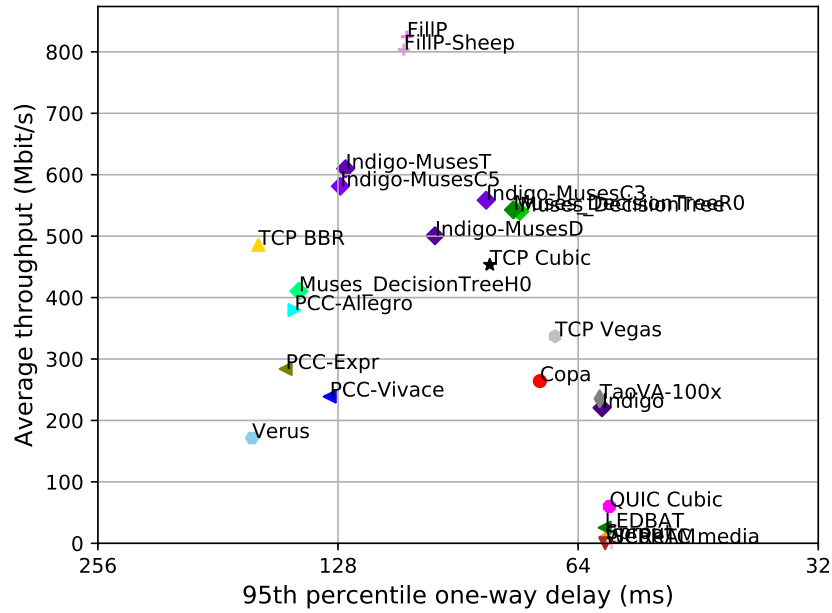
```
Linux 4.15.0-1034-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ 2076e1149a241f3edb4365d686df32342bf9561f
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 @ 8bb93ffff2b107204a92d8b72449fc0c55e15f00
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 Tokyo to GCE Sydney, 5 runs of 30s each per scheme
(mean of all runs by scheme)



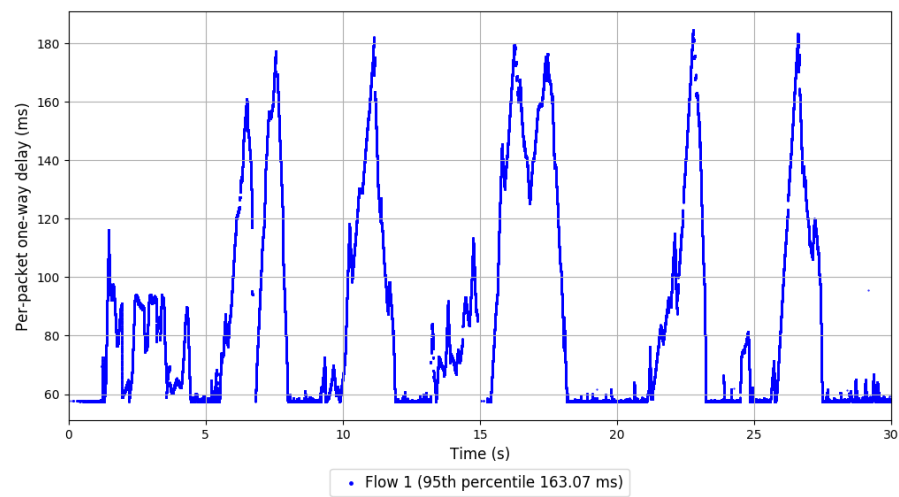
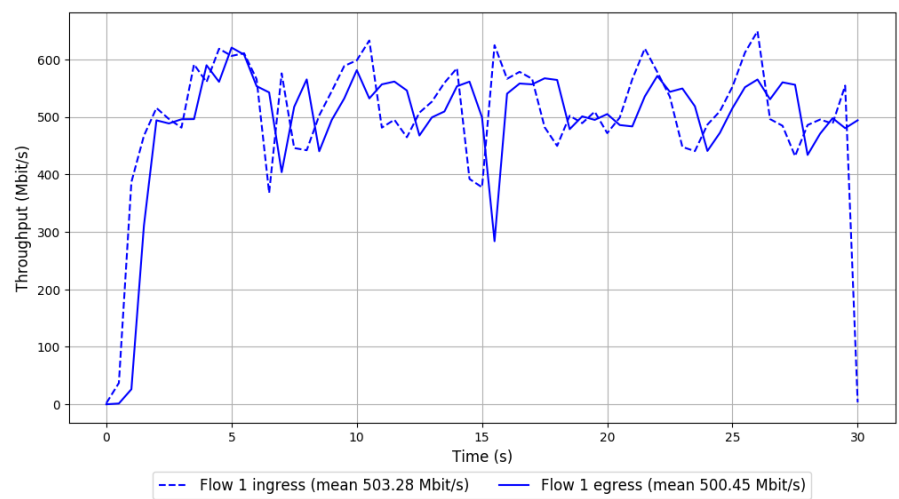
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	485.78	161.11	1.06
Copa	5	264.06	71.47	0.46
TCP Cubic	5	453.39	82.59	0.46
FillP	5	824.67	104.92	0.79
FillP-Sheep	5	803.75	105.84	0.80
Indigo	5	220.60	59.75	0.48
Indigo-MusesC3	5	558.57	83.46	0.56
Indigo-MusesC5	5	581.31	127.14	0.69
Indigo-MusesD	5	500.67	96.77	0.55
Indigo-MusesT	5	609.82	125.23	0.67
LEDBAT	5	25.45	59.29	0.54
Muses_DecisionTree	5	540.15	75.76	0.64
Muses_DecisionTreeH0	5	410.47	143.30	1.37
Muses_DecisionTreeR0	5	542.83	77.15	0.60
PCC-Allegro	5	379.69	145.16	2.61
PCC-Expr	5	283.81	148.88	2.39
QUIC Cubic	5	60.02	58.48	0.75
SCReAM	5	0.22	58.15	0.57
Sprout	5	7.15	59.14	0.42
TaoVA-100x	5	235.31	60.15	0.47
TCP Vegas	5	337.02	68.41	0.39
Verus	5	171.36	164.06	1.33
PCC-Vivace	5	238.80	131.10	0.47
WebRTC media	4	0.05	59.20	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-07-12 20:57:01
End at: 2019-07-12 20:57:31
Local clock offset: 0.332 ms
Remote clock offset: -0.413 ms

Below is generated by plot.py at 2019-07-12 23:54:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 500.45 Mbit/s
95th percentile per-packet one-way delay: 163.070 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 500.45 Mbit/s
95th percentile per-packet one-way delay: 163.070 ms
Loss rate: 0.94%

Run 1: Report of TCP BBR — Data Link

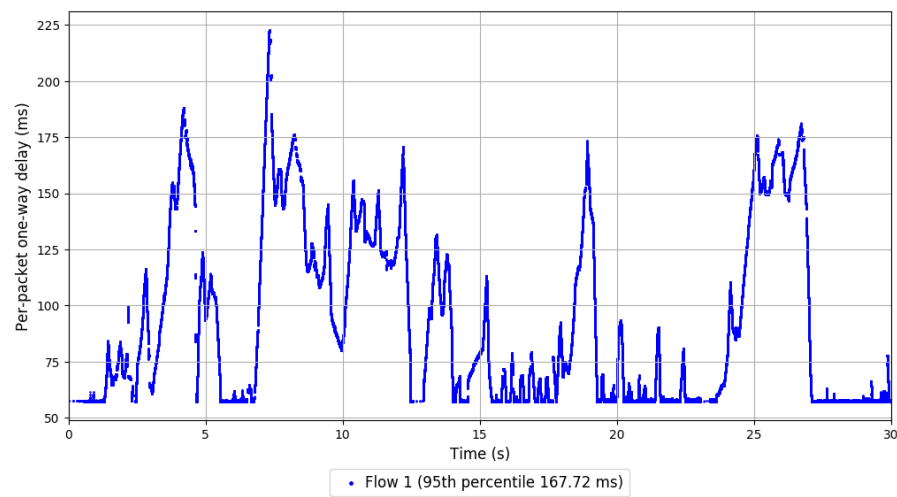
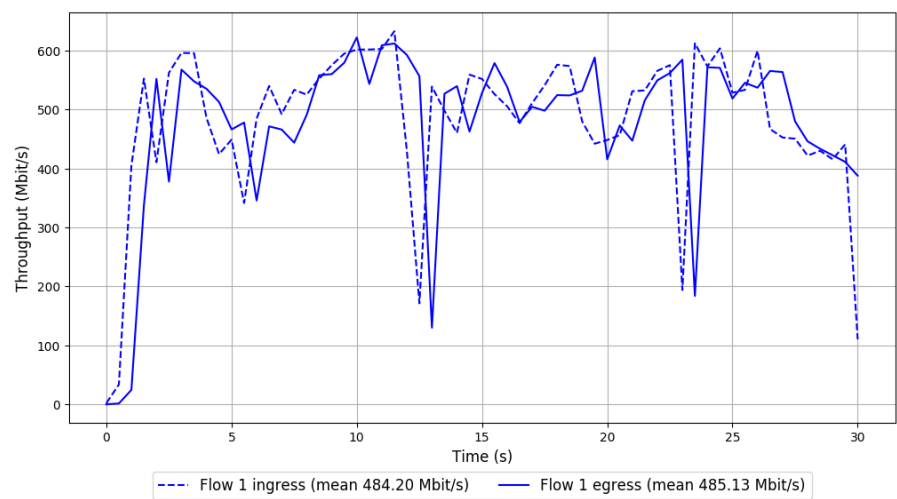


Run 2: Statistics of TCP BBR

Start at: 2019-07-12 21:32:06
End at: 2019-07-12 21:32:36
Local clock offset: -0.045 ms
Remote clock offset: -0.386 ms

Below is generated by plot.py at 2019-07-12 23:54:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 485.13 Mbit/s
95th percentile per-packet one-way delay: 167.720 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 485.13 Mbit/s
95th percentile per-packet one-way delay: 167.720 ms
Loss rate: 1.32%

Run 2: Report of TCP BBR — Data Link

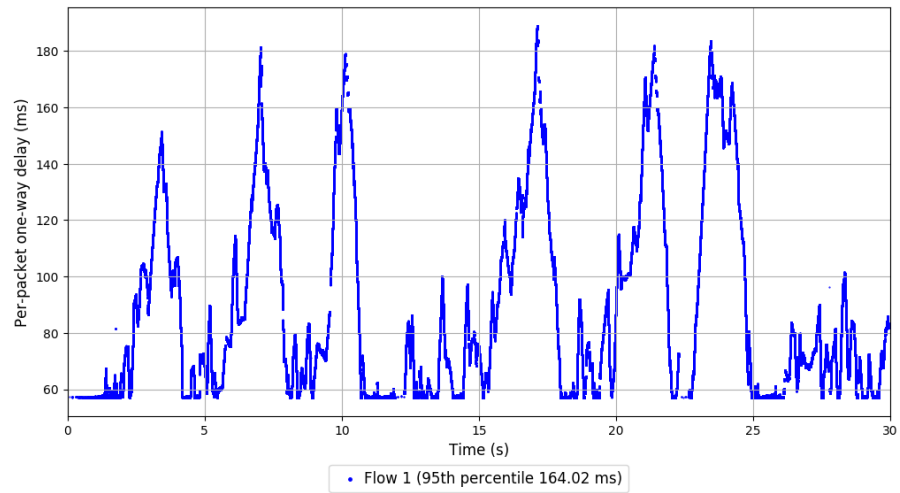
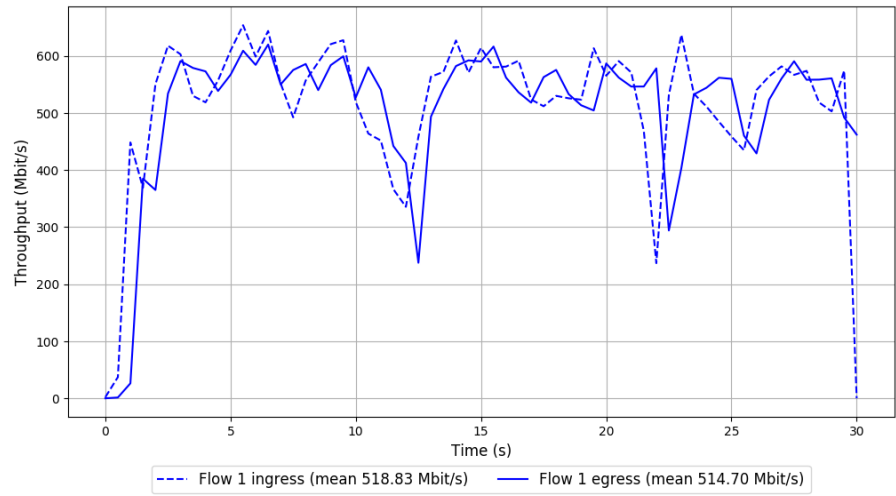


Run 3: Statistics of TCP BBR

Start at: 2019-07-12 22:07:10
End at: 2019-07-12 22:07:40
Local clock offset: 0.119 ms
Remote clock offset: -0.379 ms

Below is generated by plot.py at 2019-07-12 23:55:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 514.70 Mbit/s
95th percentile per-packet one-way delay: 164.016 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 514.70 Mbit/s
95th percentile per-packet one-way delay: 164.016 ms
Loss rate: 1.18%

Run 3: Report of TCP BBR — Data Link

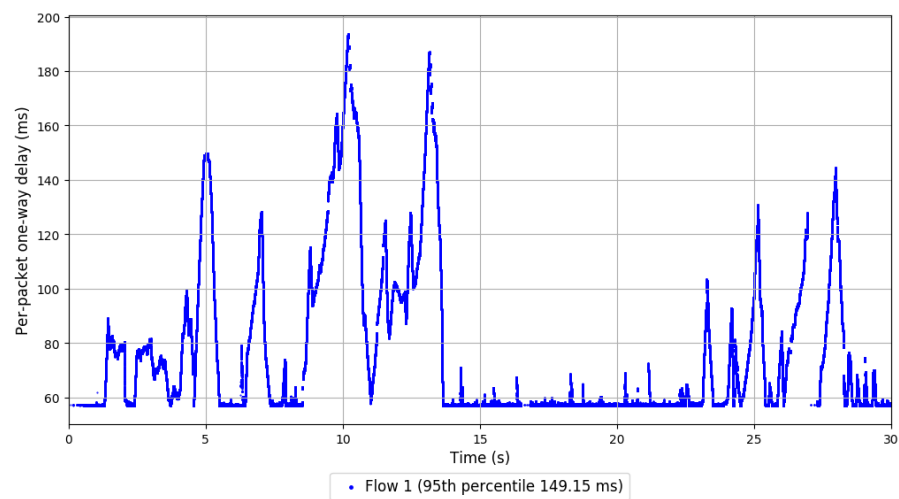
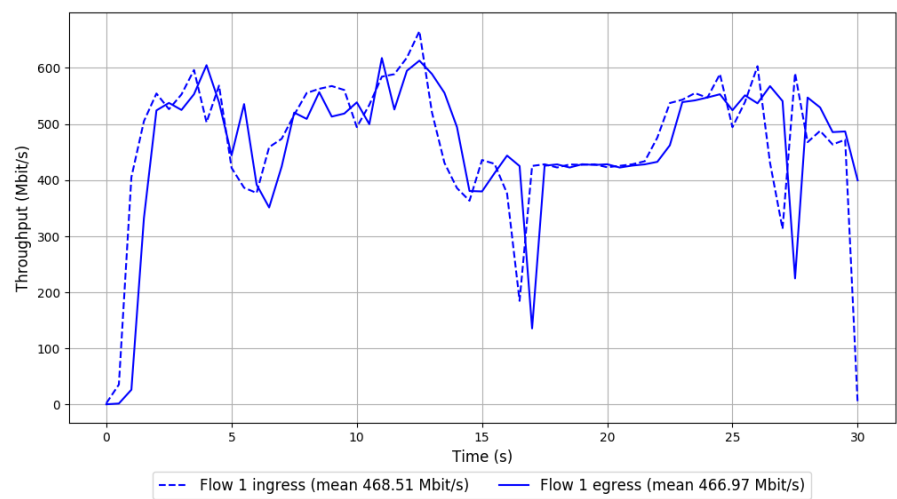


Run 4: Statistics of TCP BBR

Start at: 2019-07-12 22:41:58
End at: 2019-07-12 22:42:28
Local clock offset: -0.357 ms
Remote clock offset: -0.525 ms

Below is generated by plot.py at 2019-07-12 23:55:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 466.97 Mbit/s
95th percentile per-packet one-way delay: 149.152 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 466.97 Mbit/s
95th percentile per-packet one-way delay: 149.152 ms
Loss rate: 0.71%

Run 4: Report of TCP BBR — Data Link

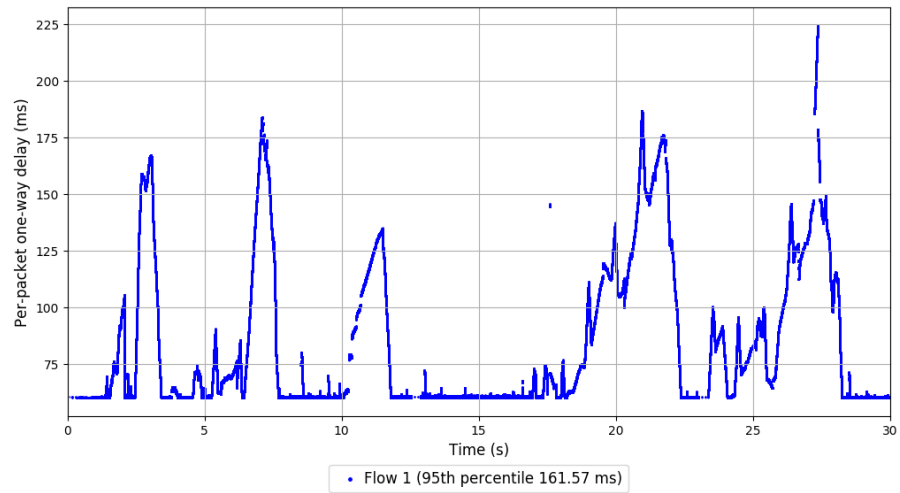
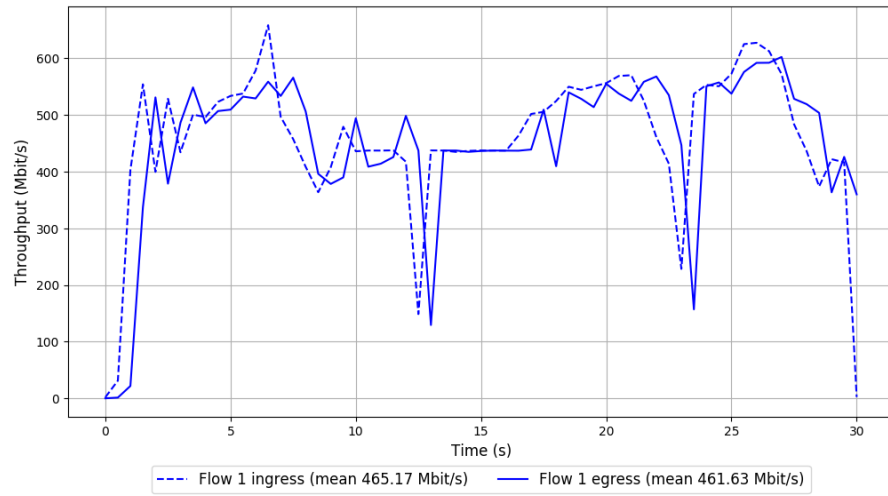


Run 5: Statistics of TCP BBR

Start at: 2019-07-12 23:17:09
End at: 2019-07-12 23:17:39
Local clock offset: -0.107 ms
Remote clock offset: -0.177 ms

Below is generated by plot.py at 2019-07-12 23:55:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 461.63 Mbit/s
95th percentile per-packet one-way delay: 161.571 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 461.63 Mbit/s
95th percentile per-packet one-way delay: 161.571 ms
Loss rate: 1.15%

Run 5: Report of TCP BBR — Data Link

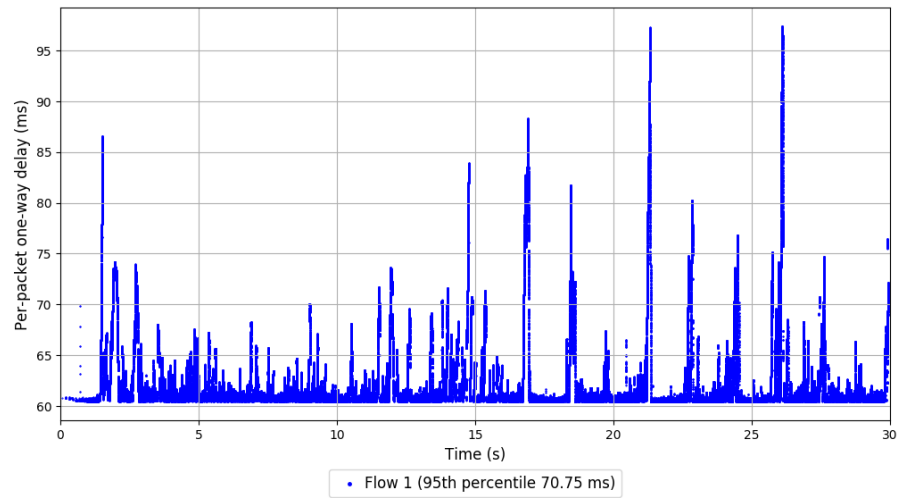
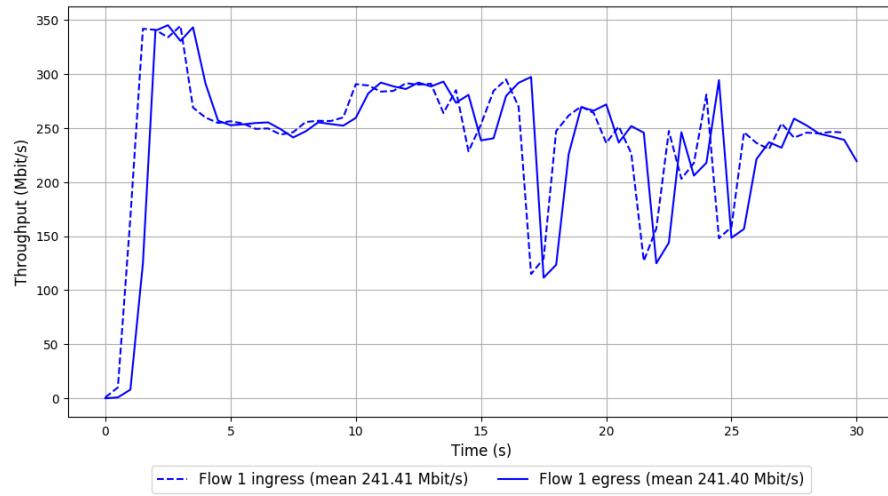


Run 1: Statistics of Copa

Start at: 2019-07-12 20:52:42
End at: 2019-07-12 20:53:12
Local clock offset: 0.274 ms
Remote clock offset: -0.253 ms

Below is generated by plot.py at 2019-07-12 23:55:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 241.40 Mbit/s
95th percentile per-packet one-way delay: 70.752 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 241.40 Mbit/s
95th percentile per-packet one-way delay: 70.752 ms
Loss rate: 0.40%

Run 1: Report of Copa — Data Link

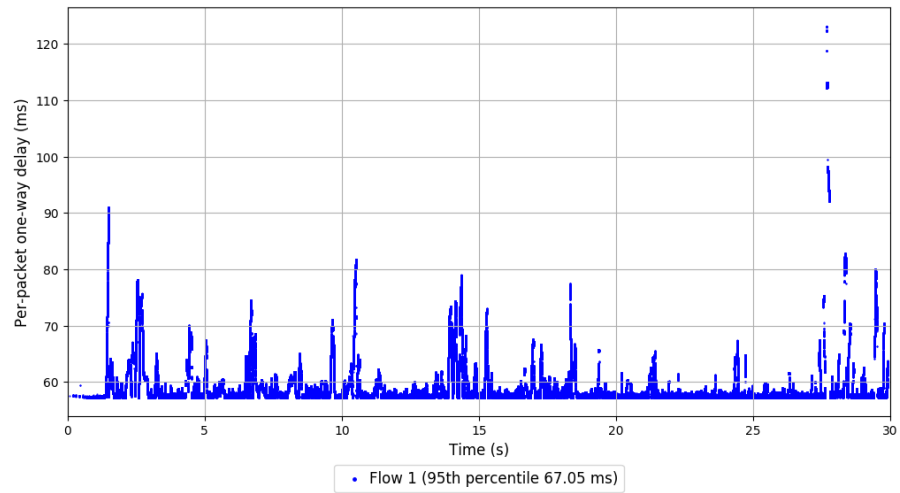
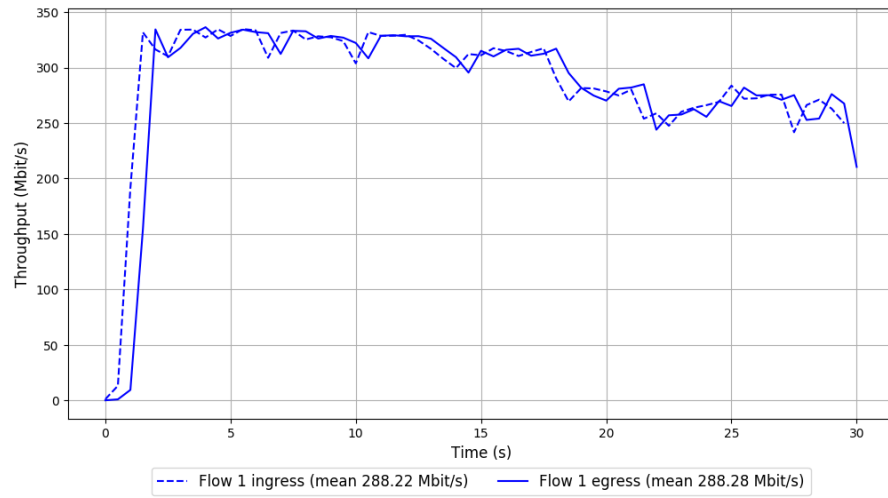


Run 2: Statistics of Copa

Start at: 2019-07-12 21:27:28
End at: 2019-07-12 21:27:58
Local clock offset: 0.347 ms
Remote clock offset: -0.393 ms

Below is generated by plot.py at 2019-07-12 23:55:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 288.28 Mbit/s
95th percentile per-packet one-way delay: 67.047 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 288.28 Mbit/s
95th percentile per-packet one-way delay: 67.047 ms
Loss rate: 0.37%

Run 2: Report of Copa — Data Link

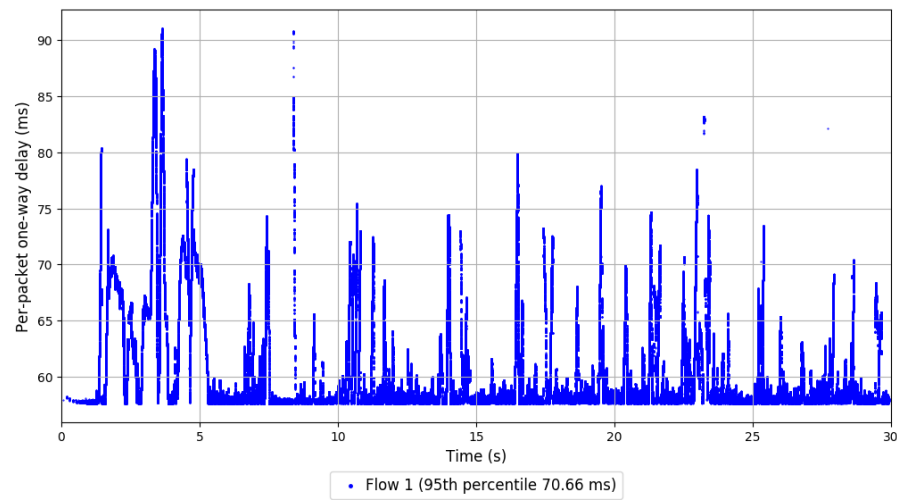
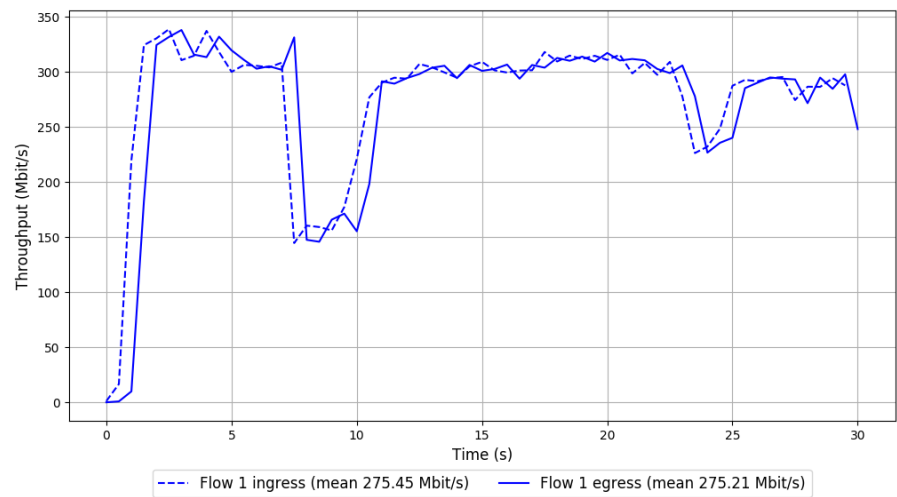


Run 3: Statistics of Copa

Start at: 2019-07-12 22:02:33
End at: 2019-07-12 22:03:03
Local clock offset: 0.37 ms
Remote clock offset: -0.503 ms

Below is generated by plot.py at 2019-07-12 23:55:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 275.21 Mbit/s
95th percentile per-packet one-way delay: 70.660 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 275.21 Mbit/s
95th percentile per-packet one-way delay: 70.660 ms
Loss rate: 0.47%

Run 3: Report of Copa — Data Link

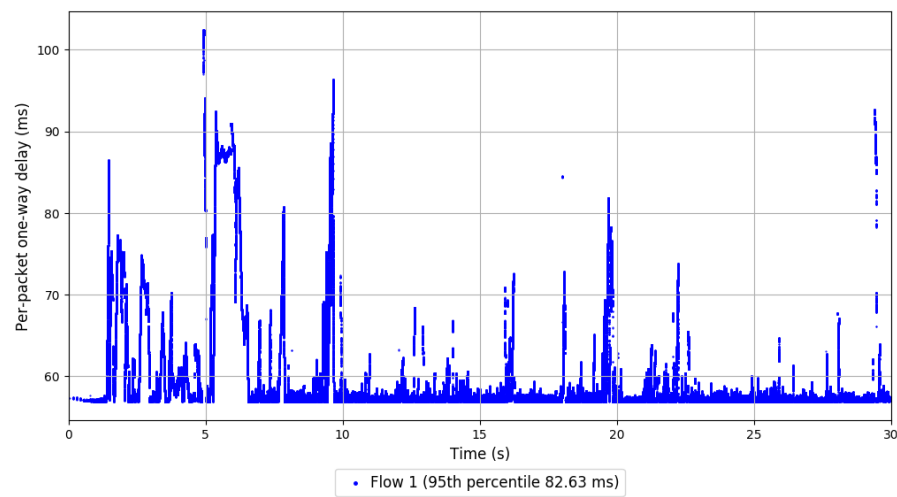
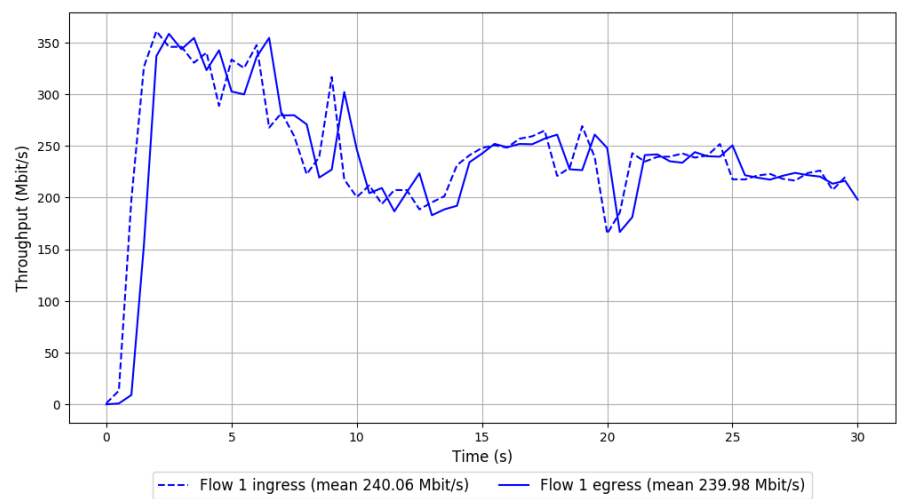


Run 4: Statistics of Copa

Start at: 2019-07-12 22:37:37
End at: 2019-07-12 22:38:07
Local clock offset: 0.095 ms
Remote clock offset: -0.345 ms

Below is generated by plot.py at 2019-07-13 00:02:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 239.98 Mbit/s
95th percentile per-packet one-way delay: 82.633 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 239.98 Mbit/s
95th percentile per-packet one-way delay: 82.633 ms
Loss rate: 0.40%

Run 4: Report of Copa — Data Link

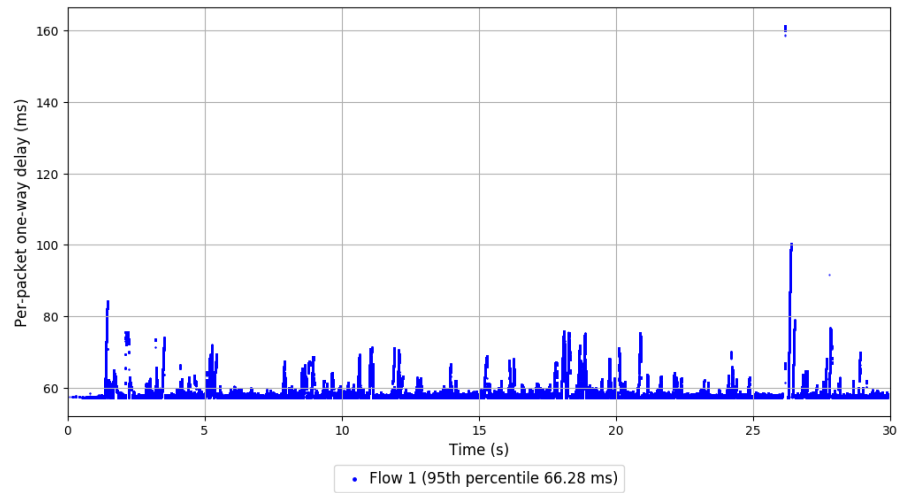
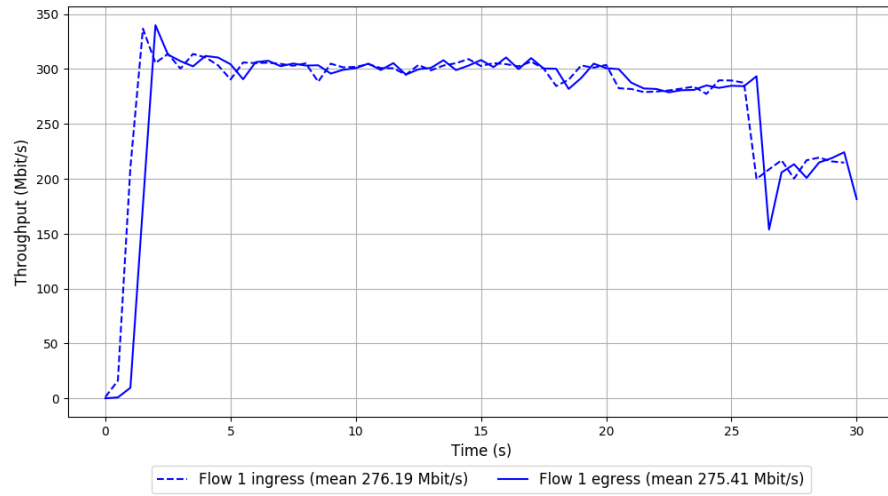


Run 5: Statistics of Copa

Start at: 2019-07-12 23:12:30
End at: 2019-07-12 23:13:00
Local clock offset: -0.042 ms
Remote clock offset: -0.267 ms

Below is generated by plot.py at 2019-07-13 00:03:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 275.41 Mbit/s
95th percentile per-packet one-way delay: 66.276 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 275.41 Mbit/s
95th percentile per-packet one-way delay: 66.276 ms
Loss rate: 0.67%

Run 5: Report of Copa — Data Link

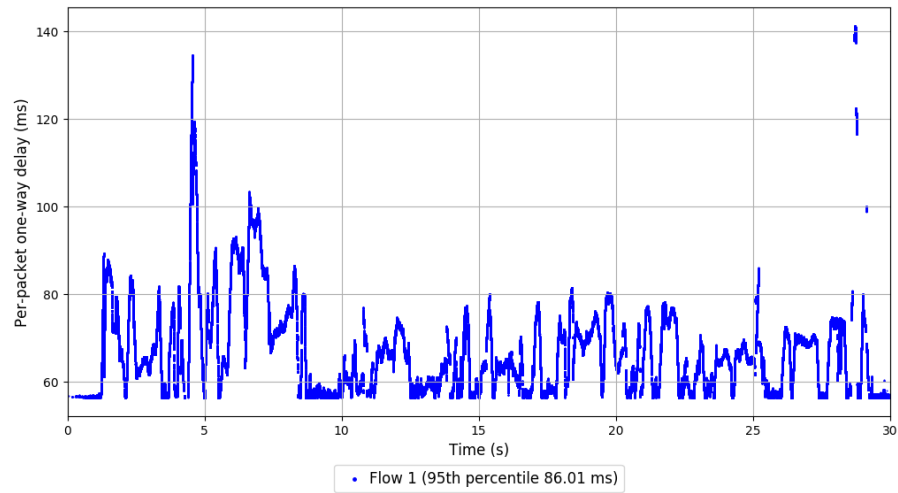
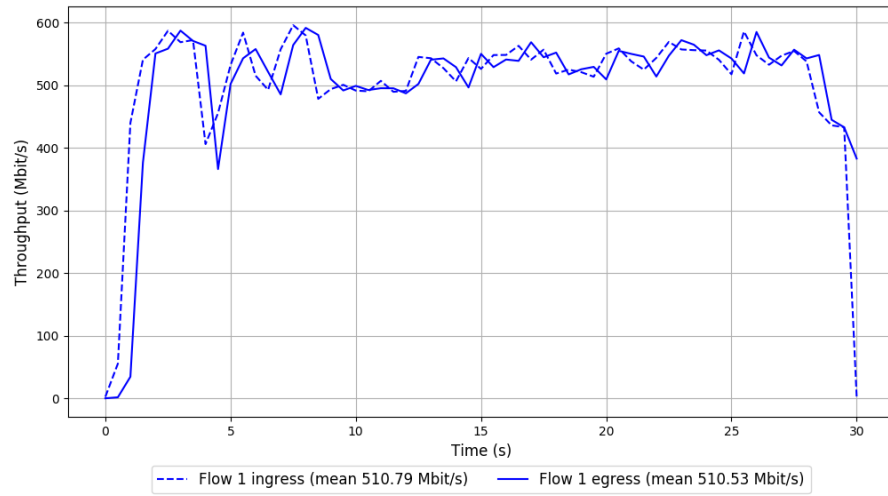


Run 1: Statistics of TCP Cubic

Start at: 2019-07-12 21:11:27
End at: 2019-07-12 21:11:57
Local clock offset: -0.542 ms
Remote clock offset: -0.417 ms

Below is generated by plot.py at 2019-07-13 00:03:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 510.53 Mbit/s
95th percentile per-packet one-way delay: 86.006 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 510.53 Mbit/s
95th percentile per-packet one-way delay: 86.006 ms
Loss rate: 0.43%

Run 1: Report of TCP Cubic — Data Link

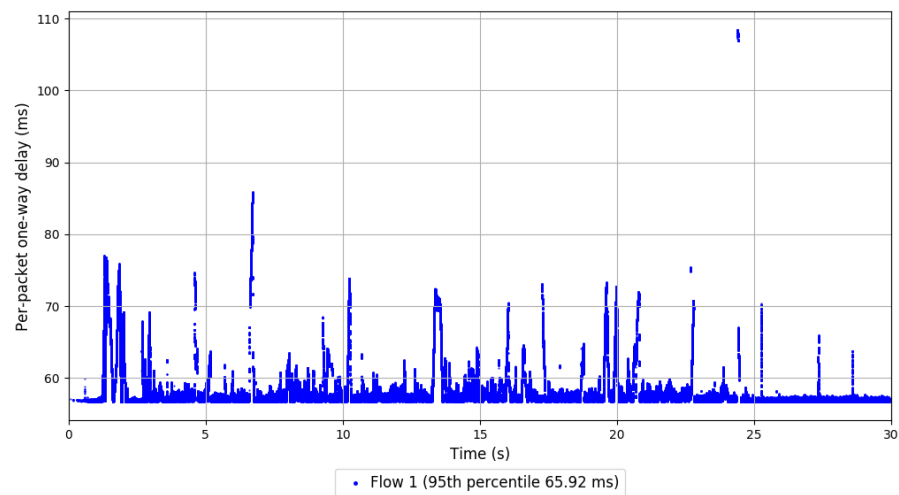
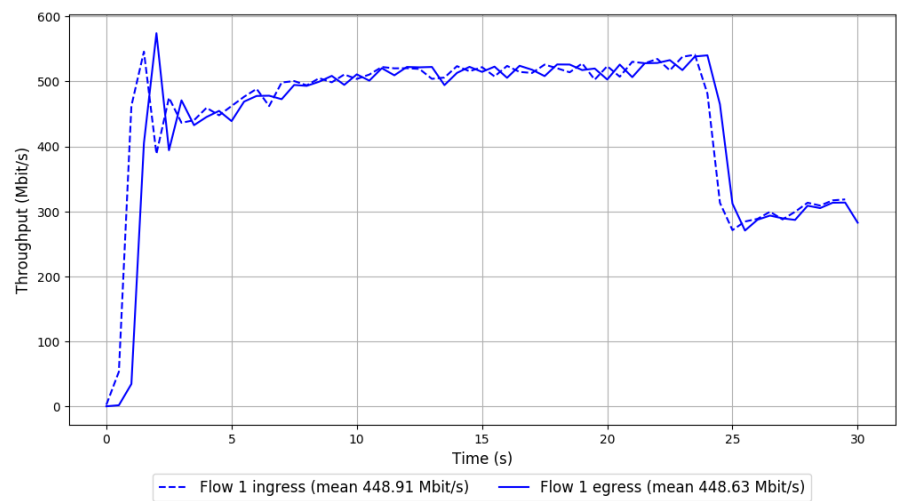


Run 2: Statistics of TCP Cubic

Start at: 2019-07-12 21:46:32
End at: 2019-07-12 21:47:02
Local clock offset: -0.195 ms
Remote clock offset: -0.375 ms

Below is generated by plot.py at 2019-07-13 00:03:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 448.63 Mbit/s
95th percentile per-packet one-way delay: 65.916 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 448.63 Mbit/s
95th percentile per-packet one-way delay: 65.916 ms
Loss rate: 0.44%

Run 2: Report of TCP Cubic — Data Link

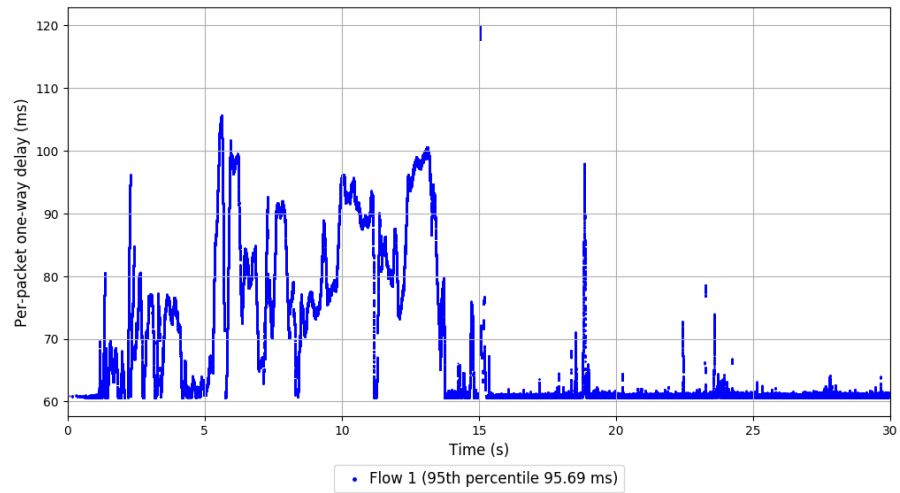
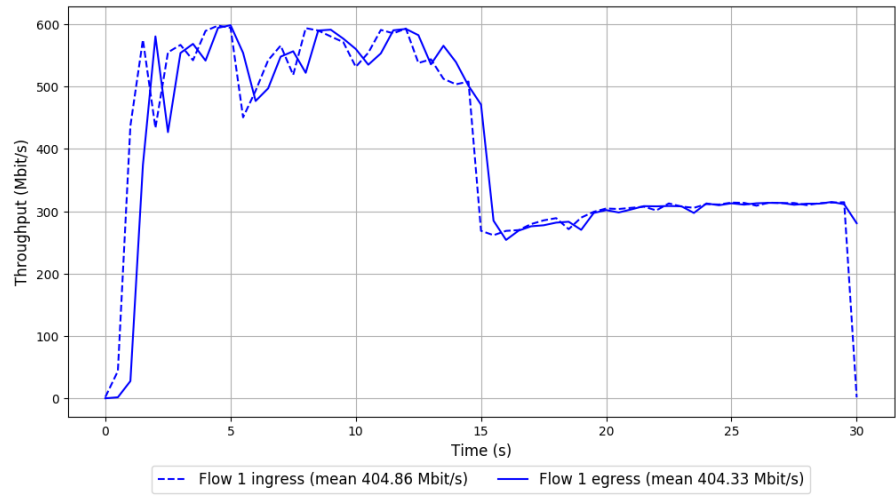


Run 3: Statistics of TCP Cubic

Start at: 2019-07-12 22:21:41
End at: 2019-07-12 22:22:11
Local clock offset: 0.361 ms
Remote clock offset: -0.431 ms

Below is generated by plot.py at 2019-07-13 00:03:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 404.33 Mbit/s
95th percentile per-packet one-way delay: 95.693 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 404.33 Mbit/s
95th percentile per-packet one-way delay: 95.693 ms
Loss rate: 0.52%

Run 3: Report of TCP Cubic — Data Link

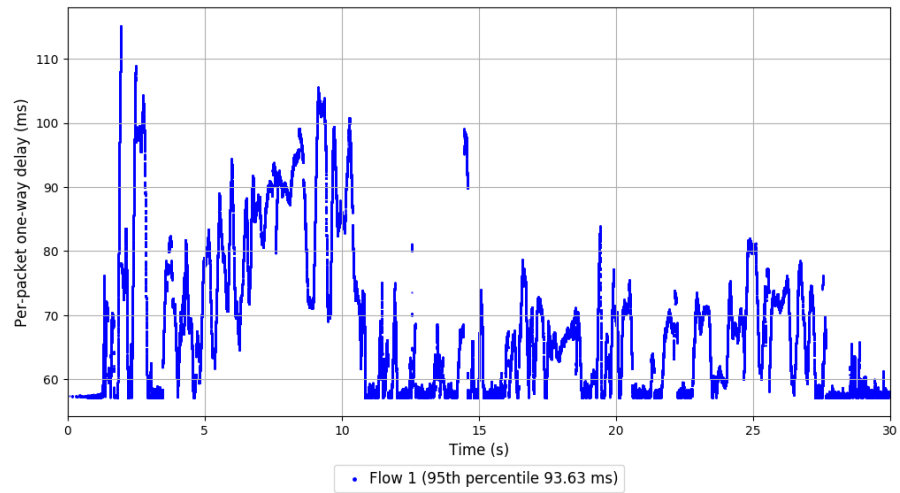
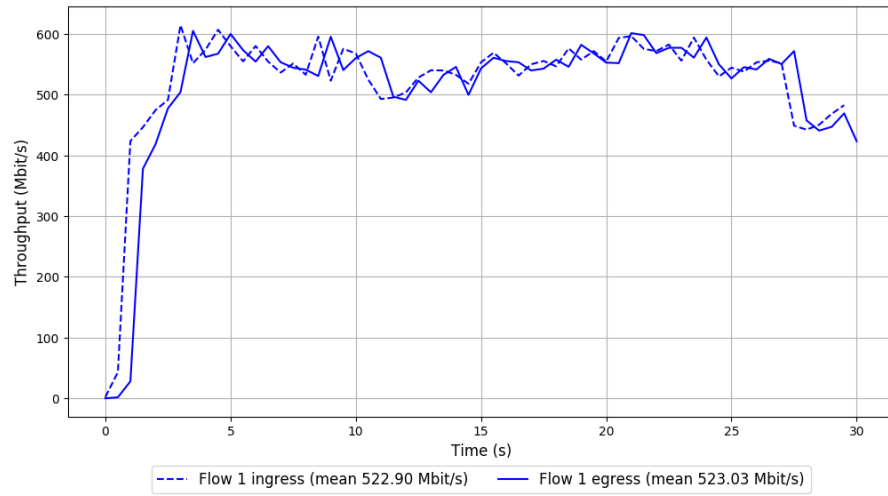


Run 4: Statistics of TCP Cubic

Start at: 2019-07-12 22:56:27
End at: 2019-07-12 22:56:57
Local clock offset: 0.171 ms
Remote clock offset: -0.468 ms

Below is generated by plot.py at 2019-07-13 00:04:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 523.03 Mbit/s
95th percentile per-packet one-way delay: 93.631 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 523.03 Mbit/s
95th percentile per-packet one-way delay: 93.631 ms
Loss rate: 0.36%

Run 4: Report of TCP Cubic — Data Link

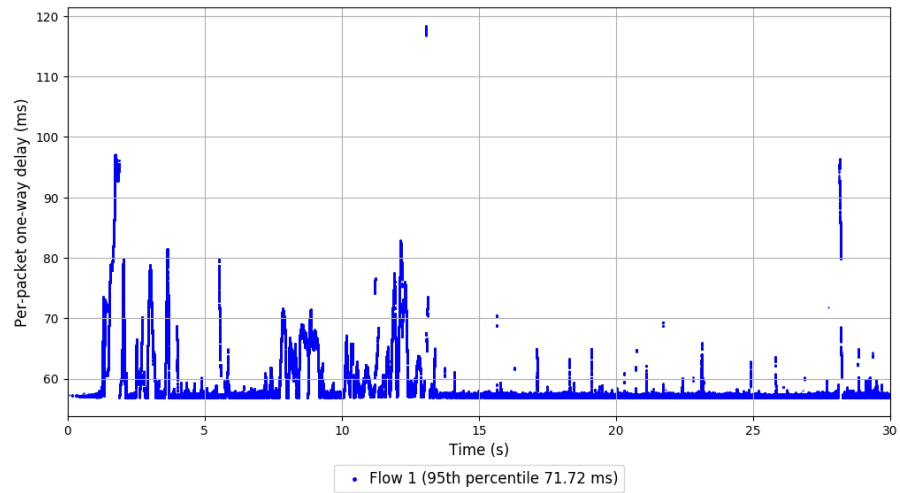
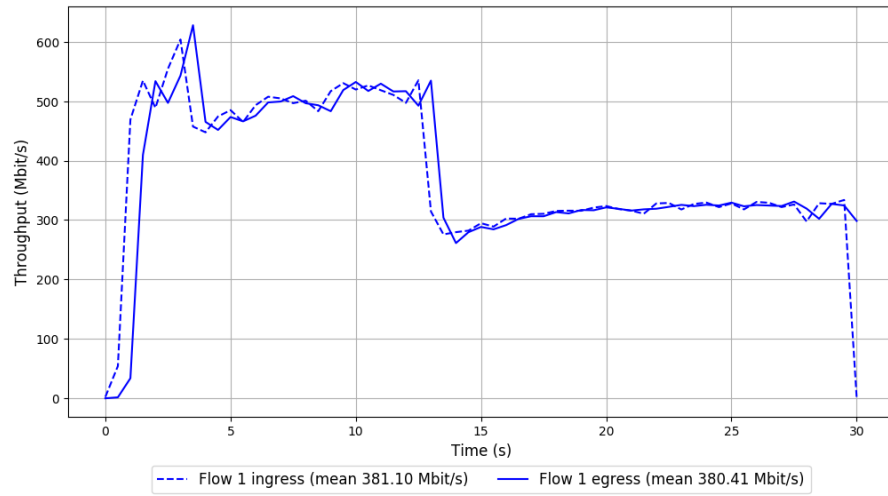


Run 5: Statistics of TCP Cubic

Start at: 2019-07-12 23:31:43
End at: 2019-07-12 23:32:13
Local clock offset: -0.212 ms
Remote clock offset: -0.206 ms

Below is generated by plot.py at 2019-07-13 00:04:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 380.41 Mbit/s
95th percentile per-packet one-way delay: 71.719 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 380.41 Mbit/s
95th percentile per-packet one-way delay: 71.719 ms
Loss rate: 0.56%

Run 5: Report of TCP Cubic — Data Link

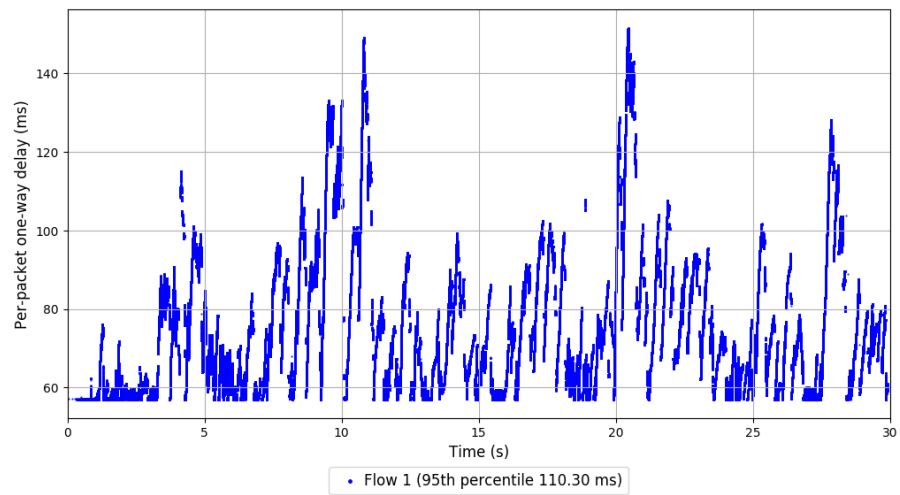
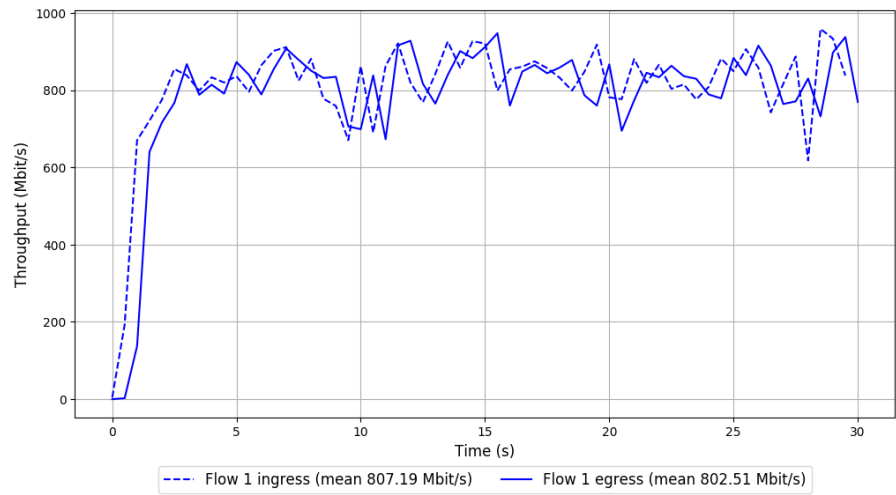


Run 1: Statistics of FillP

Start at: 2019-07-12 21:08:37
End at: 2019-07-12 21:09:07
Local clock offset: -0.314 ms
Remote clock offset: -0.328 ms

Below is generated by plot.py at 2019-07-13 00:11:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 802.51 Mbit/s
95th percentile per-packet one-way delay: 110.302 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 802.51 Mbit/s
95th percentile per-packet one-way delay: 110.302 ms
Loss rate: 0.96%

Run 1: Report of FillP — Data Link

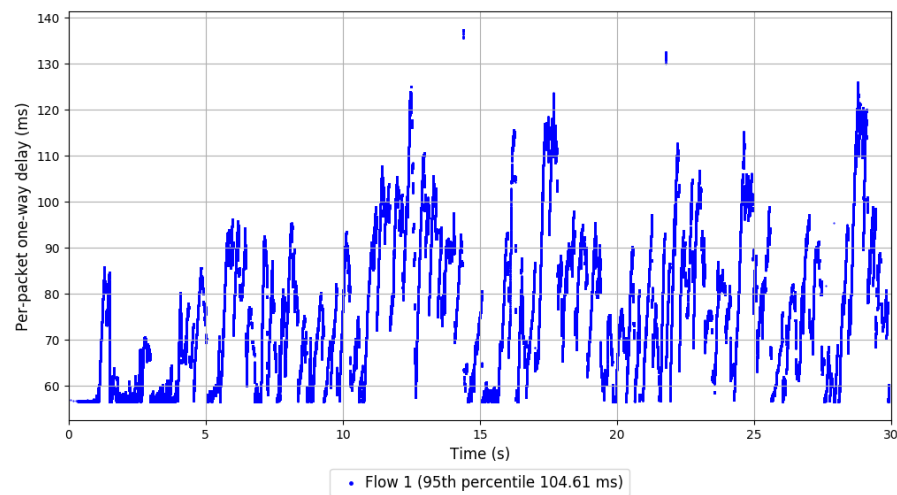
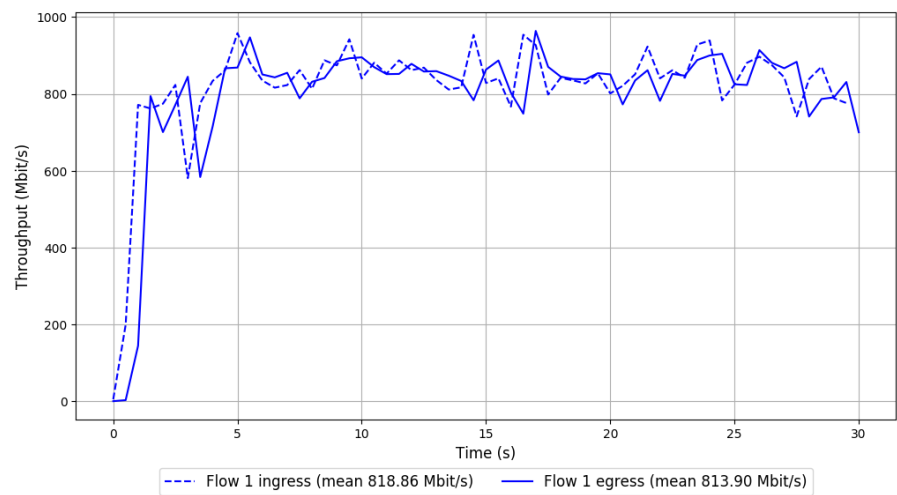


Run 2: Statistics of FillP

Start at: 2019-07-12 21:43:42
End at: 2019-07-12 21:44:12
Local clock offset: -0.019 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2019-07-13 00:20:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 813.90 Mbit/s
95th percentile per-packet one-way delay: 104.615 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 813.90 Mbit/s
95th percentile per-packet one-way delay: 104.615 ms
Loss rate: 0.99%

Run 2: Report of FillP — Data Link

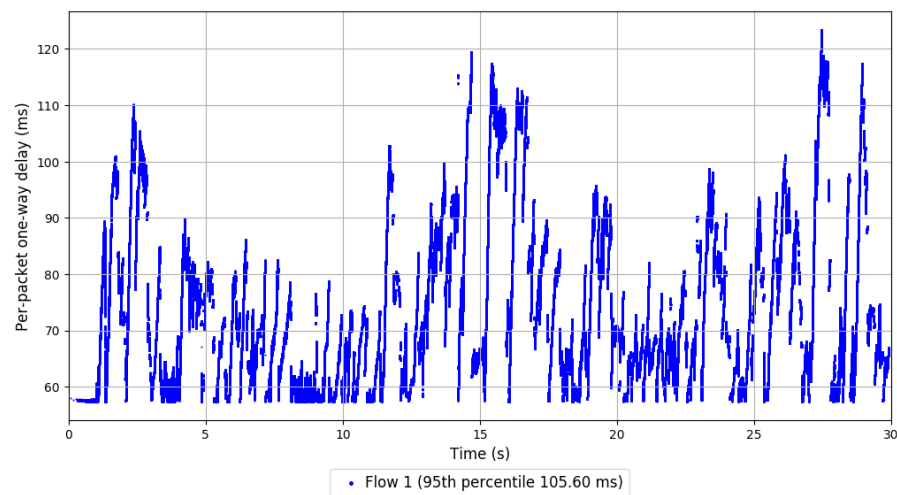
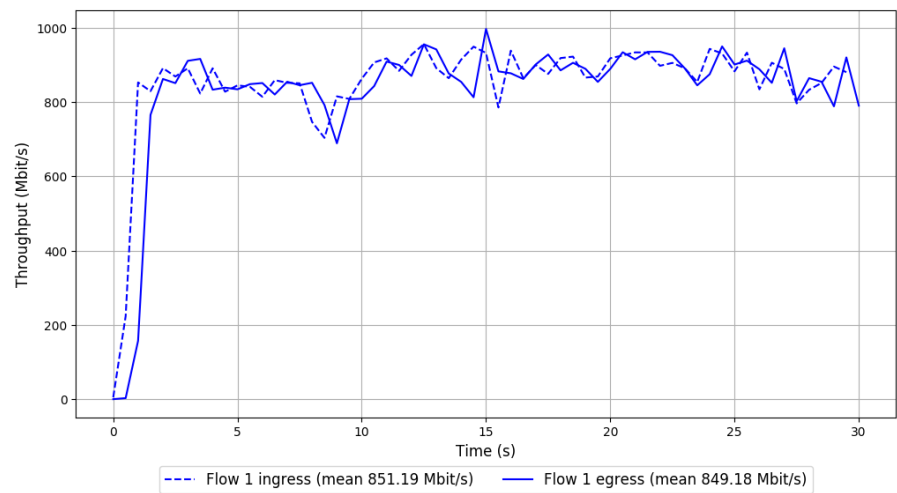


Run 3: Statistics of FillP

Start at: 2019-07-12 22:18:50
End at: 2019-07-12 22:19:20
Local clock offset: 0.096 ms
Remote clock offset: -0.536 ms

Below is generated by plot.py at 2019-07-13 00:20:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 849.18 Mbit/s
95th percentile per-packet one-way delay: 105.604 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 849.18 Mbit/s
95th percentile per-packet one-way delay: 105.604 ms
Loss rate: 0.62%

Run 3: Report of FillP — Data Link

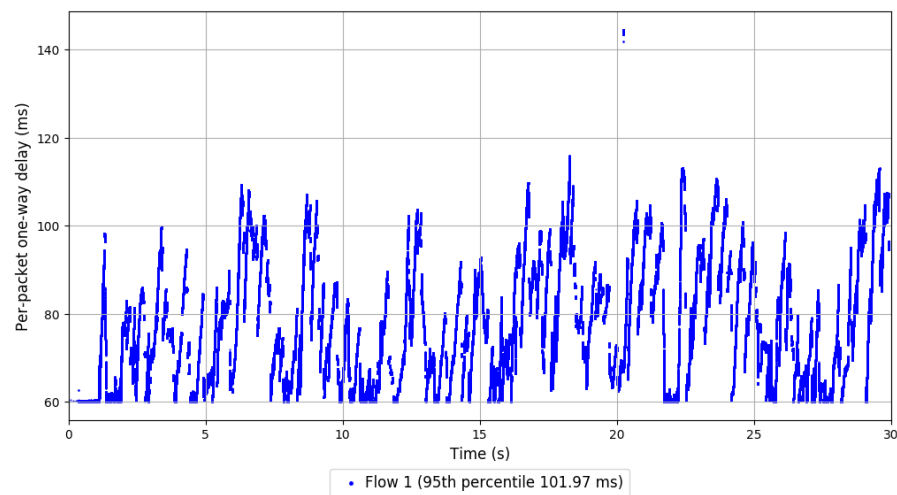
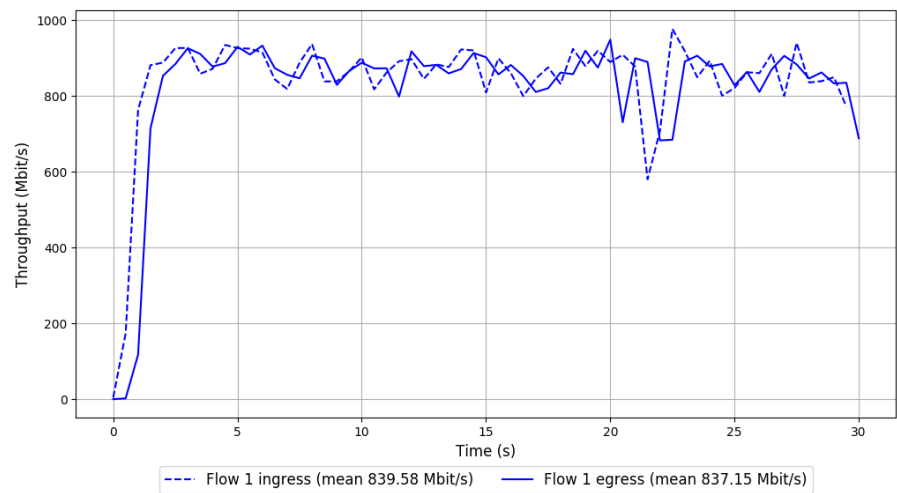


Run 4: Statistics of FillP

Start at: 2019-07-12 22:53:36
End at: 2019-07-12 22:54:06
Local clock offset: -0.256 ms
Remote clock offset: -0.261 ms

Below is generated by plot.py at 2019-07-13 00:20:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 837.15 Mbit/s
95th percentile per-packet one-way delay: 101.975 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 837.15 Mbit/s
95th percentile per-packet one-way delay: 101.975 ms
Loss rate: 0.68%

Run 4: Report of FillP — Data Link

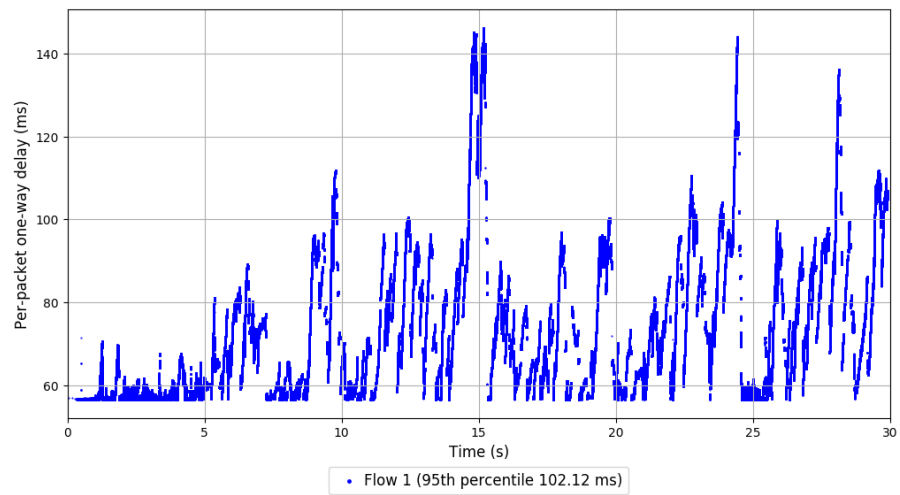
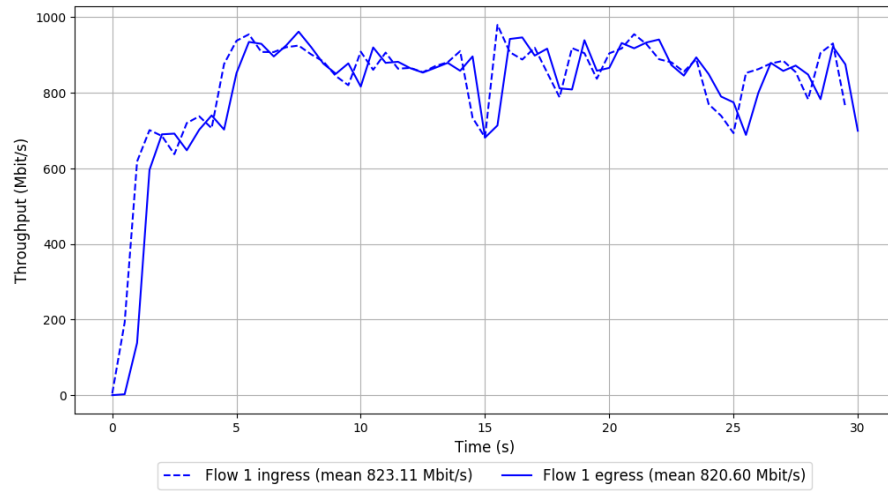


Run 5: Statistics of FillP

Start at: 2019-07-12 23:28:53
End at: 2019-07-12 23:29:23
Local clock offset: -0.245 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2019-07-13 00:20:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 820.60 Mbit/s
95th percentile per-packet one-way delay: 102.121 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 820.60 Mbit/s
95th percentile per-packet one-way delay: 102.121 ms
Loss rate: 0.69%

Run 5: Report of FillP — Data Link

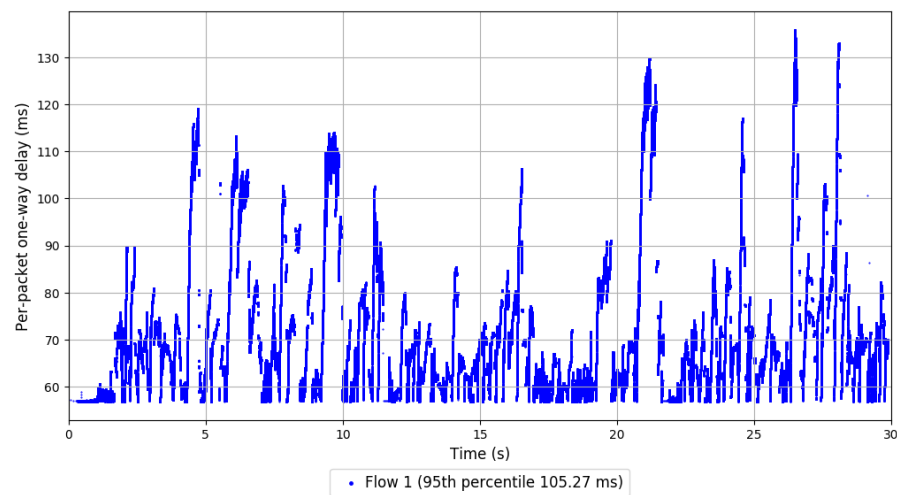
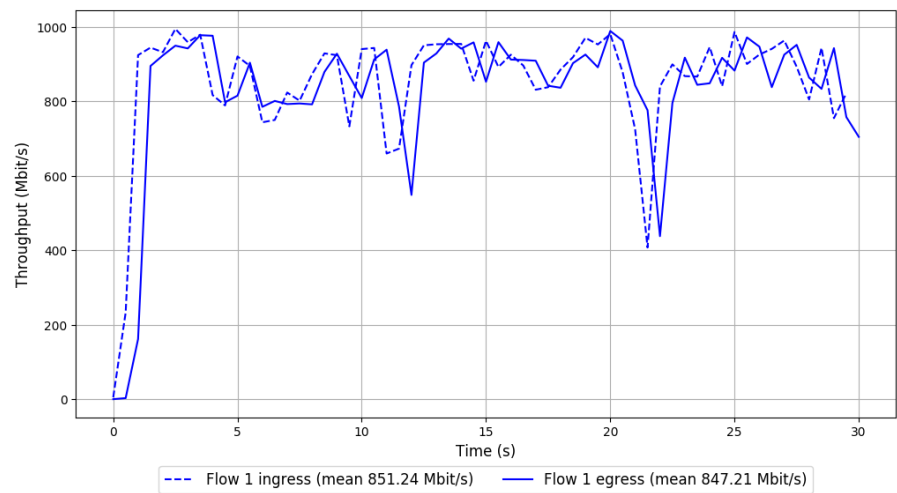


Run 1: Statistics of FillP-Sheep

Start at: 2019-07-12 21:05:21
End at: 2019-07-12 21:05:51
Local clock offset: -0.121 ms
Remote clock offset: -0.301 ms

Below is generated by plot.py at 2019-07-13 00:21:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 847.21 Mbit/s
95th percentile per-packet one-way delay: 105.266 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 847.21 Mbit/s
95th percentile per-packet one-way delay: 105.266 ms
Loss rate: 0.86%

Run 1: Report of FillP-Sheep — Data Link

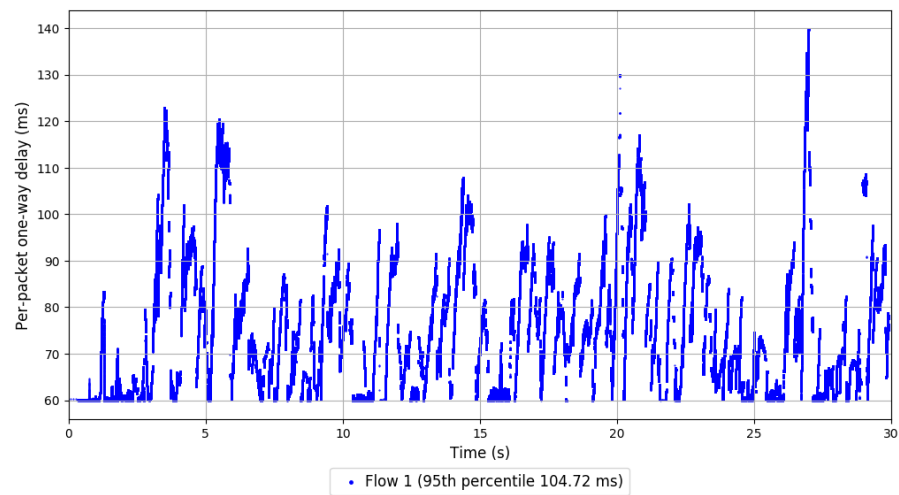
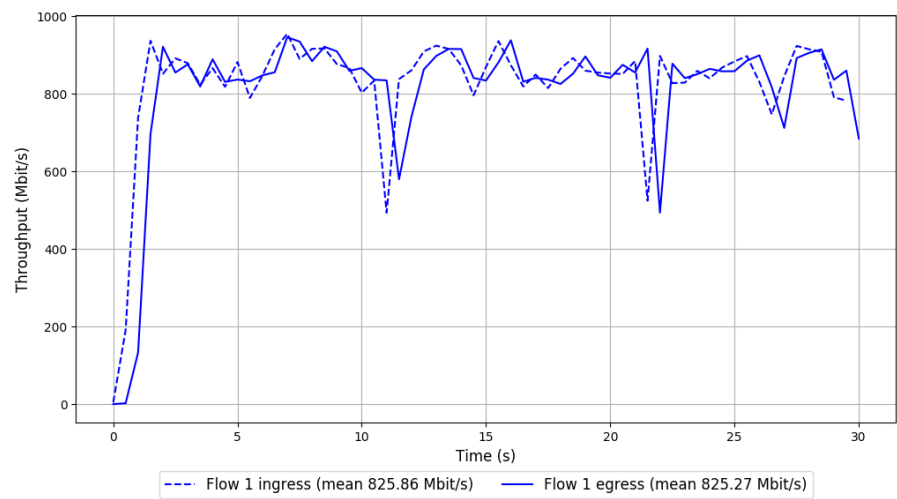


Run 2: Statistics of FillP-Sheep

Start at: 2019-07-12 21:40:26
End at: 2019-07-12 21:40:56
Local clock offset: -0.391 ms
Remote clock offset: -0.437 ms

Below is generated by plot.py at 2019-07-13 00:21:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 825.27 Mbit/s
95th percentile per-packet one-way delay: 104.718 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 825.27 Mbit/s
95th percentile per-packet one-way delay: 104.718 ms
Loss rate: 0.47%

Run 2: Report of FillP-Sheep — Data Link

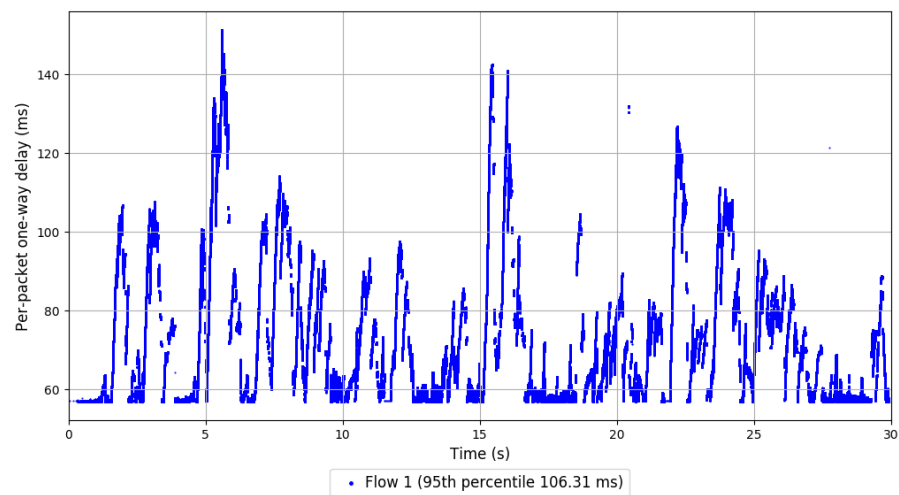
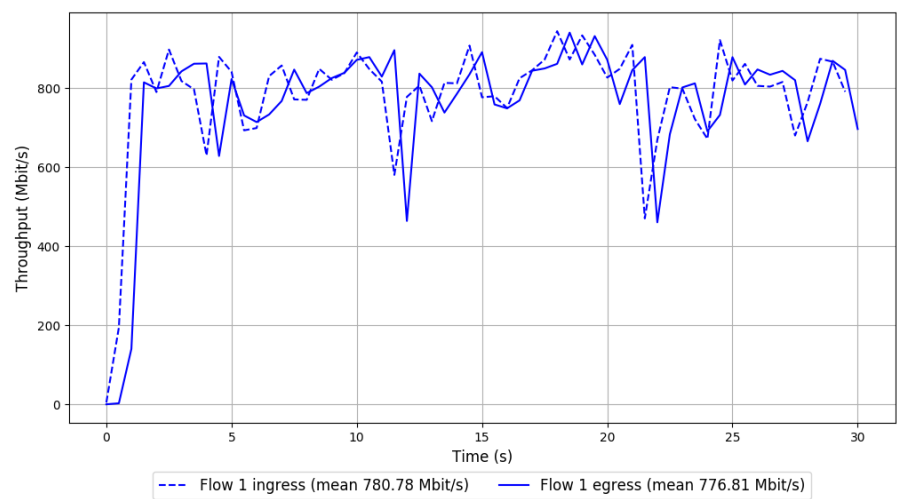


Run 3: Statistics of FillP-Sheep

Start at: 2019-07-12 22:15:36
End at: 2019-07-12 22:16:06
Local clock offset: -0.048 ms
Remote clock offset: -0.349 ms

Below is generated by plot.py at 2019-07-13 00:21:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 776.81 Mbit/s
95th percentile per-packet one-way delay: 106.307 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 776.81 Mbit/s
95th percentile per-packet one-way delay: 106.307 ms
Loss rate: 0.89%

Run 3: Report of FillP-Sheep — Data Link

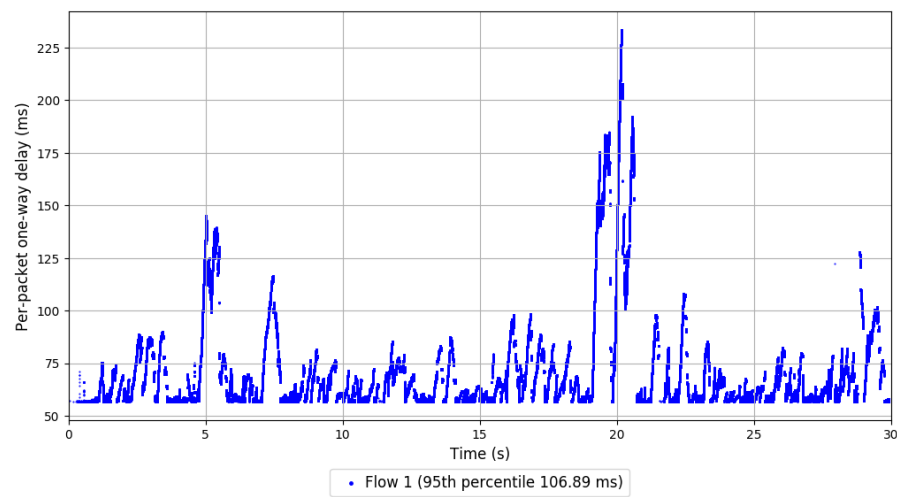
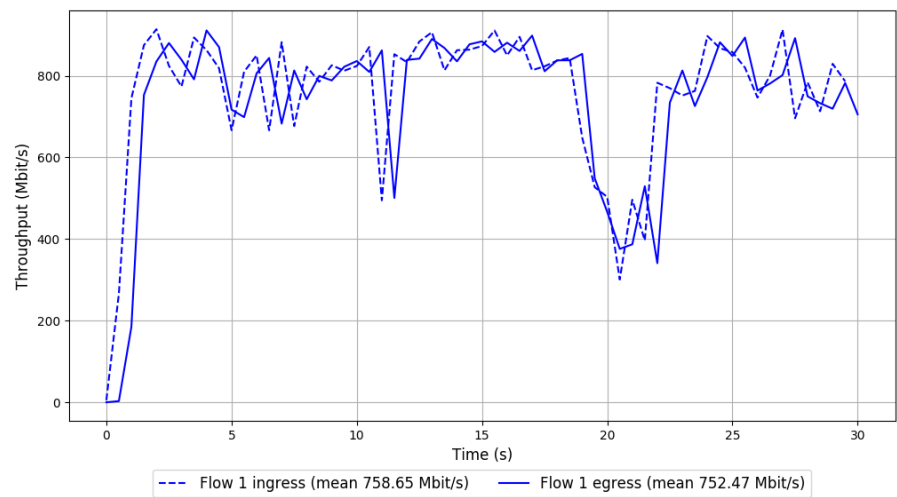


Run 4: Statistics of FillP-Sheep

Start at: 2019-07-12 22:50:26
End at: 2019-07-12 22:50:56
Local clock offset: -0.224 ms
Remote clock offset: -0.555 ms

Below is generated by plot.py at 2019-07-13 00:30:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 752.47 Mbit/s
95th percentile per-packet one-way delay: 106.895 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 752.47 Mbit/s
95th percentile per-packet one-way delay: 106.895 ms
Loss rate: 1.20%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-07-12 23:25:38

End at: 2019-07-12 23:26:08

Local clock offset: 0.212 ms

Remote clock offset: -0.171 ms

Below is generated by plot.py at 2019-07-13 00:38:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 816.98 Mbit/s

95th percentile per-packet one-way delay: 106.013 ms

Loss rate: 0.58%

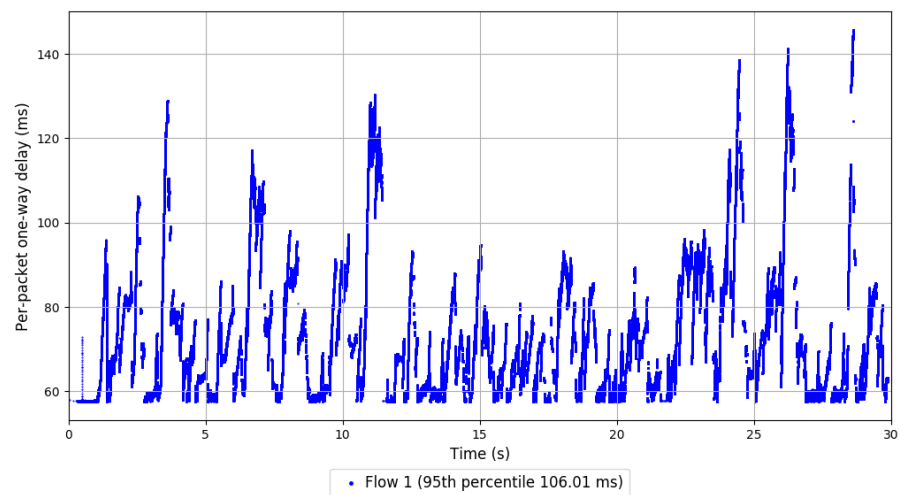
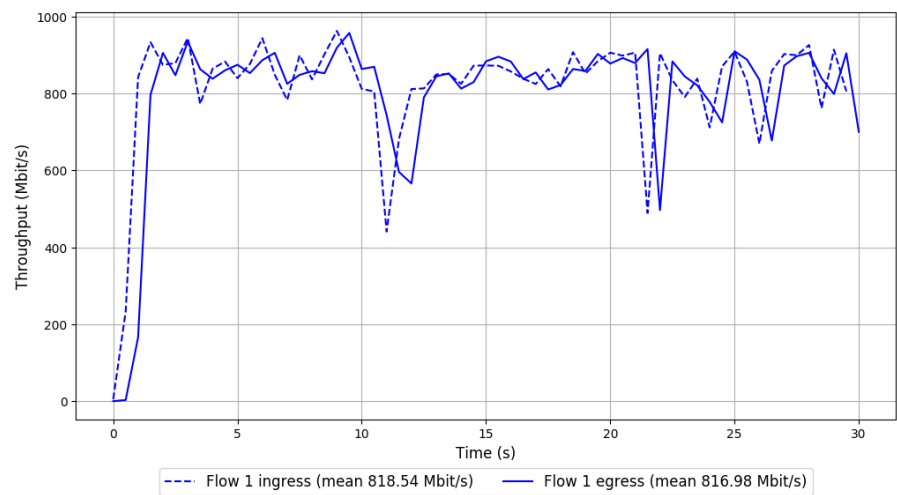
-- Flow 1:

Average throughput: 816.98 Mbit/s

95th percentile per-packet one-way delay: 106.013 ms

Loss rate: 0.58%

Run 5: Report of FillP-Sheep — Data Link

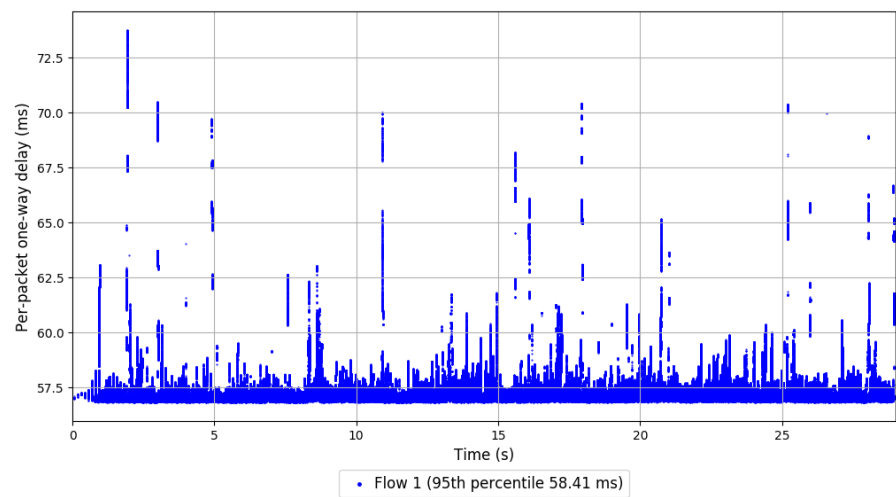
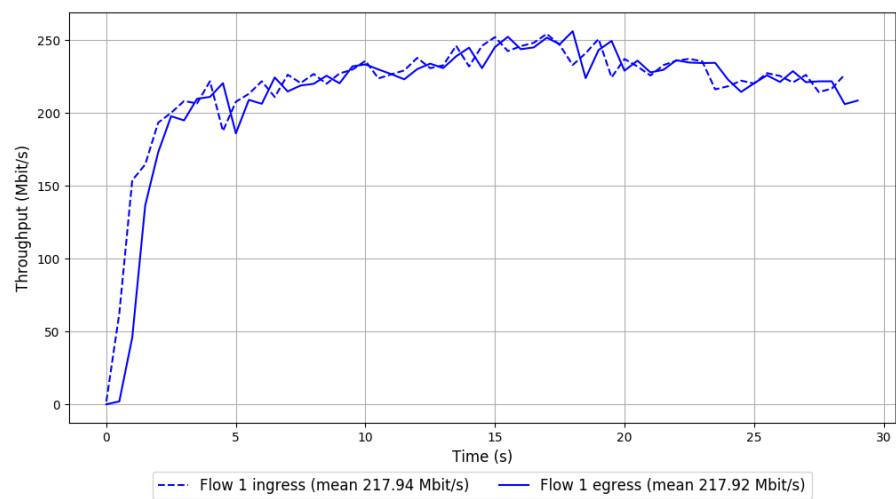


Run 1: Statistics of Indigo

Start at: 2019-07-12 20:39:51
End at: 2019-07-12 20:40:21
Local clock offset: 0.062 ms
Remote clock offset: -0.271 ms

Below is generated by plot.py at 2019-07-13 00:38:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 217.92 Mbit/s
95th percentile per-packet one-way delay: 58.413 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 217.92 Mbit/s
95th percentile per-packet one-way delay: 58.413 ms
Loss rate: 0.40%

Run 1: Report of Indigo — Data Link

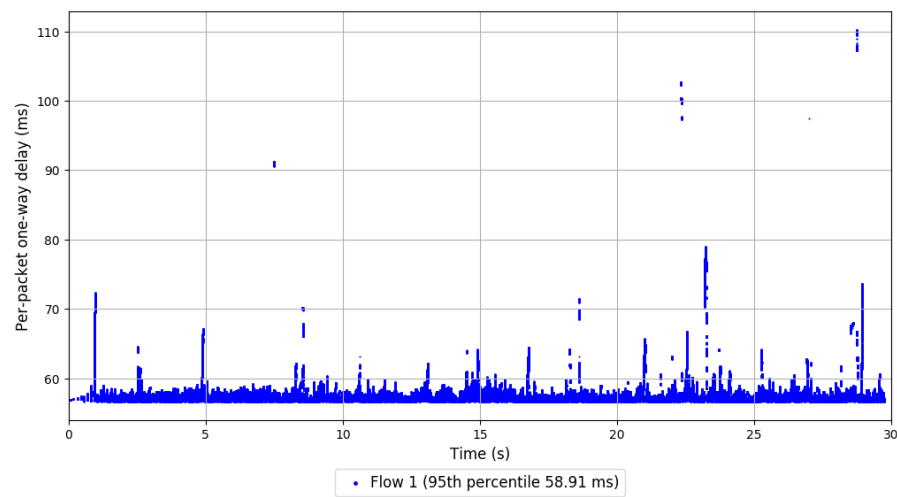
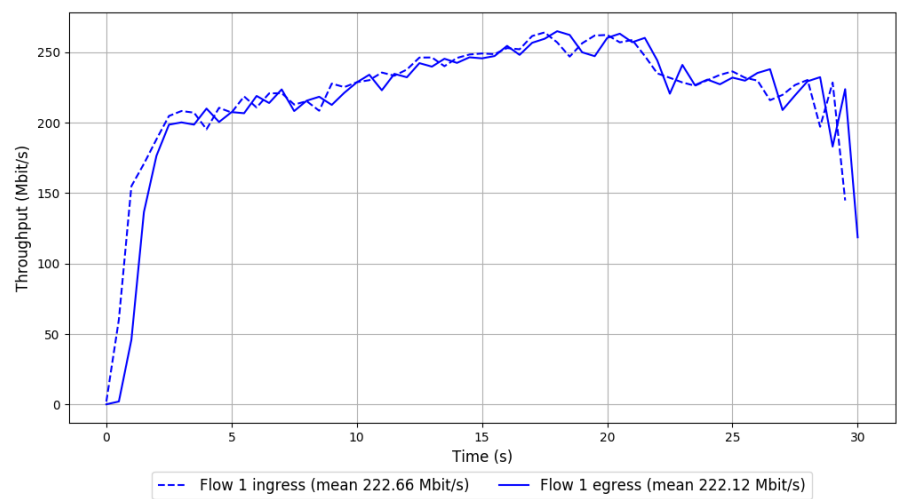


Run 2: Statistics of Indigo

Start at: 2019-07-12 21:14:34
End at: 2019-07-12 21:15:04
Local clock offset: -0.472 ms
Remote clock offset: -0.306 ms

Below is generated by plot.py at 2019-07-13 00:38:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 222.12 Mbit/s
95th percentile per-packet one-way delay: 58.907 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 222.12 Mbit/s
95th percentile per-packet one-way delay: 58.907 ms
Loss rate: 0.63%

Run 2: Report of Indigo — Data Link

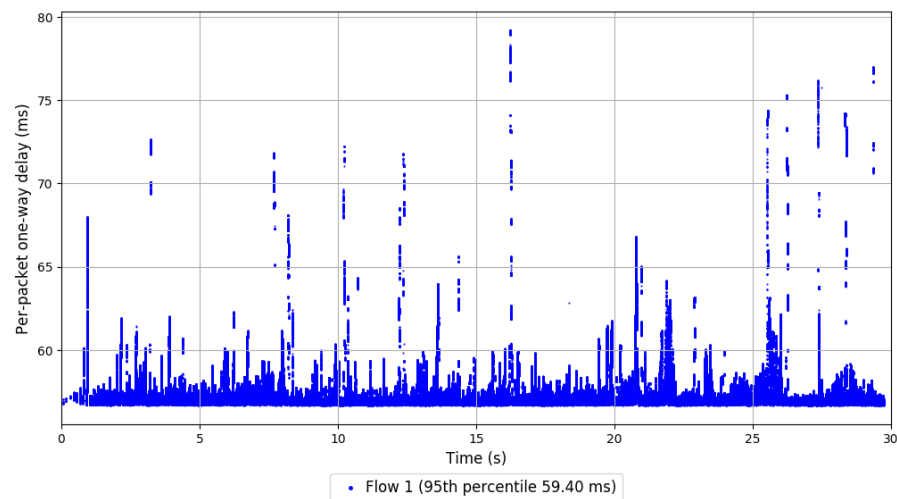
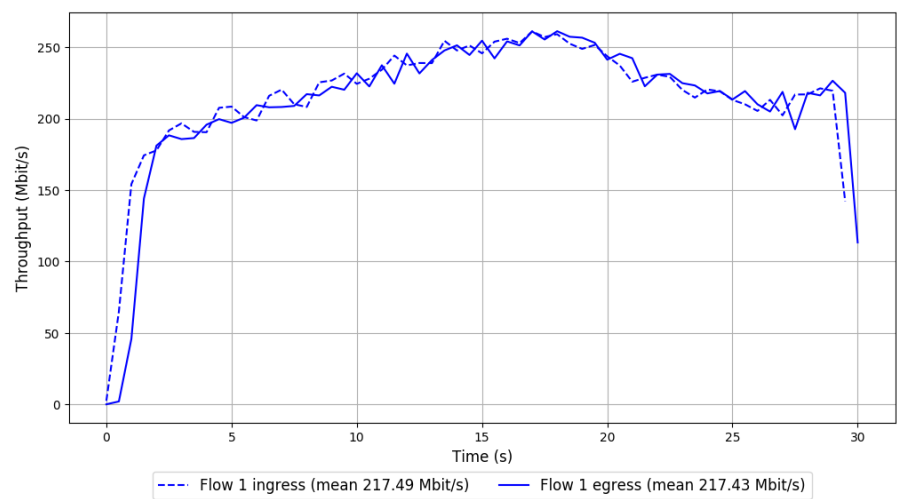


Run 3: Statistics of Indigo

Start at: 2019-07-12 21:49:36
End at: 2019-07-12 21:50:06
Local clock offset: -0.469 ms
Remote clock offset: -0.459 ms

Below is generated by plot.py at 2019-07-13 00:38:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 217.43 Mbit/s
95th percentile per-packet one-way delay: 59.403 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 217.43 Mbit/s
95th percentile per-packet one-way delay: 59.403 ms
Loss rate: 0.41%

Run 3: Report of Indigo — Data Link

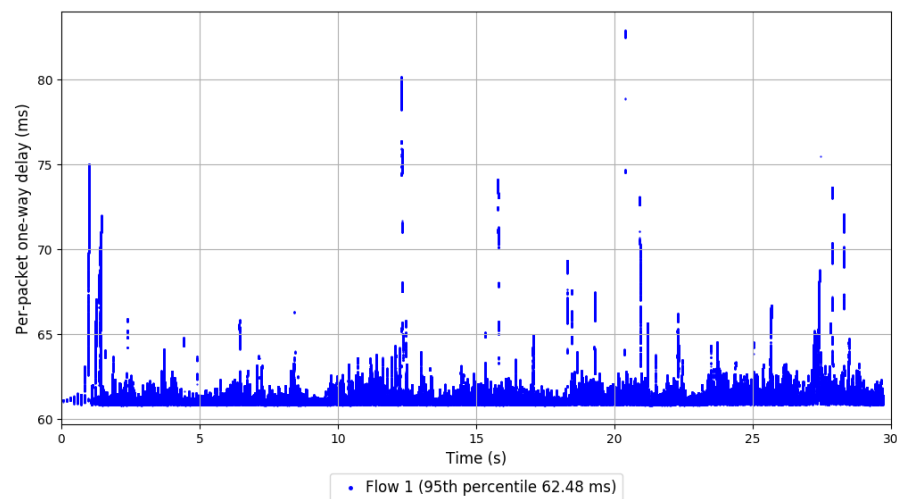
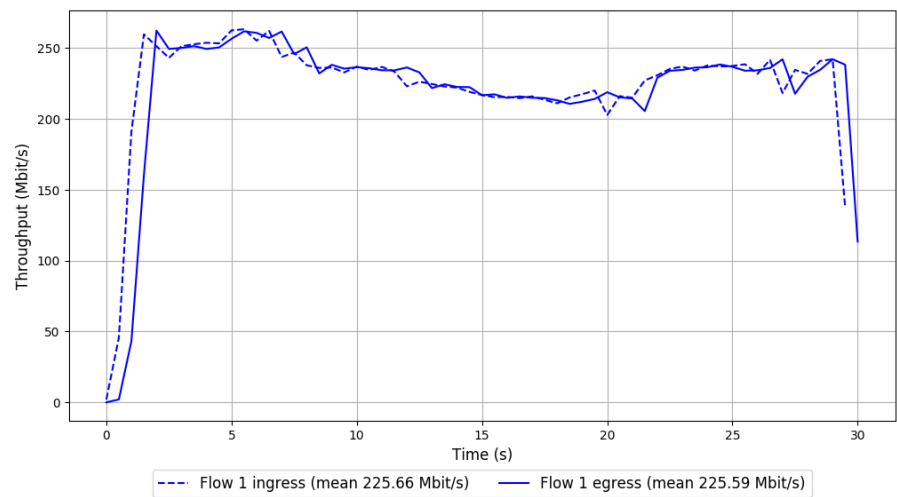


Run 4: Statistics of Indigo

Start at: 2019-07-12 22:24:44
End at: 2019-07-12 22:25:14
Local clock offset: -0.023 ms
Remote clock offset: -1.122 ms

Below is generated by plot.py at 2019-07-13 00:38:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 225.59 Mbit/s
95th percentile per-packet one-way delay: 62.479 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 225.59 Mbit/s
95th percentile per-packet one-way delay: 62.479 ms
Loss rate: 0.42%

Run 4: Report of Indigo — Data Link

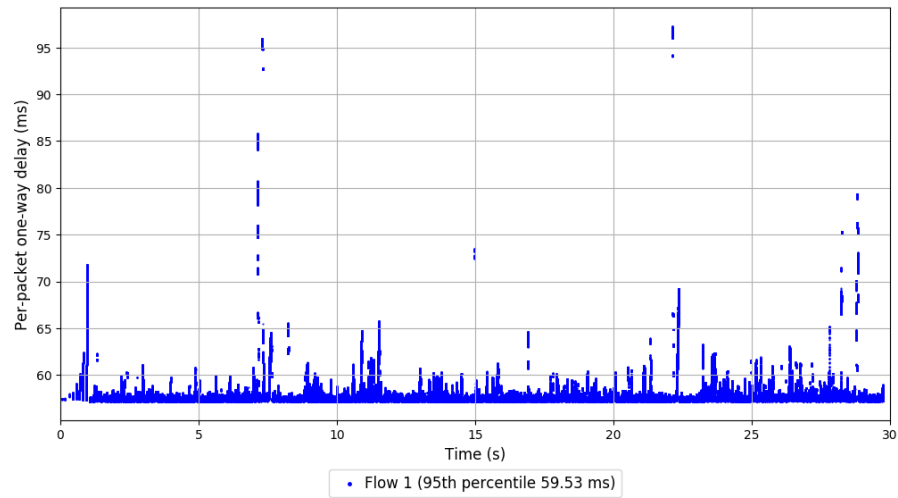
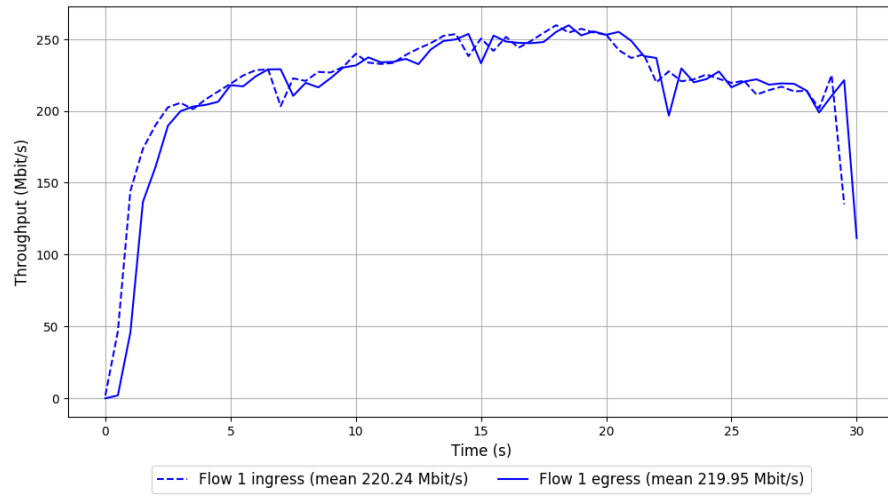


Run 5: Statistics of Indigo

Start at: 2019-07-12 22:59:34
End at: 2019-07-12 23:00:04
Local clock offset: -0.092 ms
Remote clock offset: -0.562 ms

Below is generated by plot.py at 2019-07-13 00:38:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 219.95 Mbit/s
95th percentile per-packet one-way delay: 59.527 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 219.95 Mbit/s
95th percentile per-packet one-way delay: 59.527 ms
Loss rate: 0.52%

Run 5: Report of Indigo — Data Link

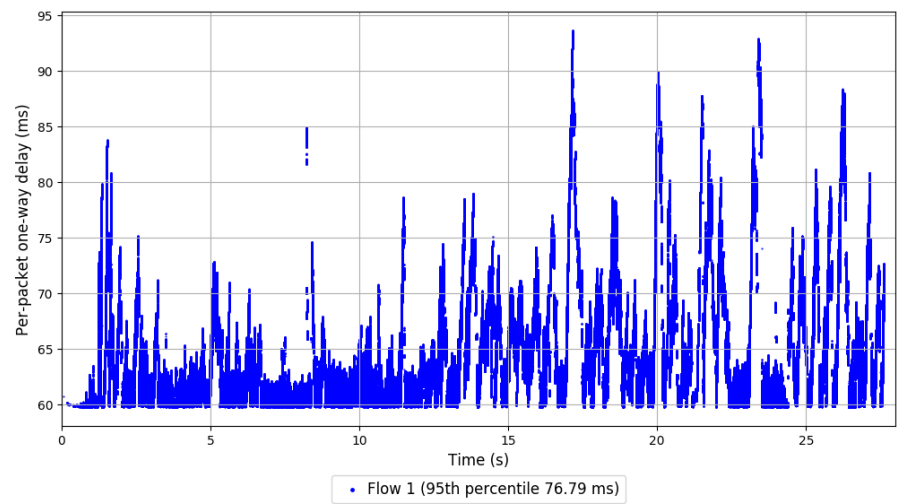
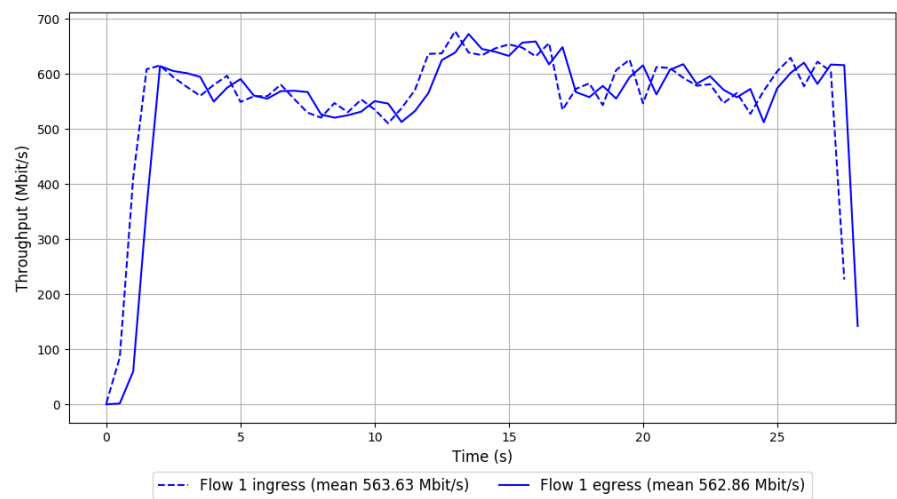


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-07-12 20:38:16
End at: 2019-07-12 20:38:46
Local clock offset: -0.337 ms
Remote clock offset: -0.274 ms

Below is generated by plot.py at 2019-07-13 00:38:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 562.86 Mbit/s
95th percentile per-packet one-way delay: 76.790 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 562.86 Mbit/s
95th percentile per-packet one-way delay: 76.790 ms
Loss rate: 0.56%

Run 1: Report of Indigo-MusesC3 — Data Link

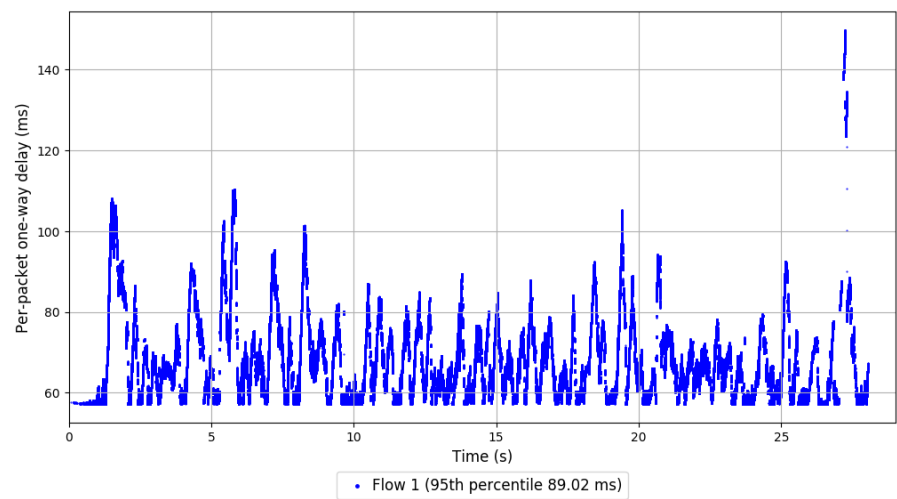
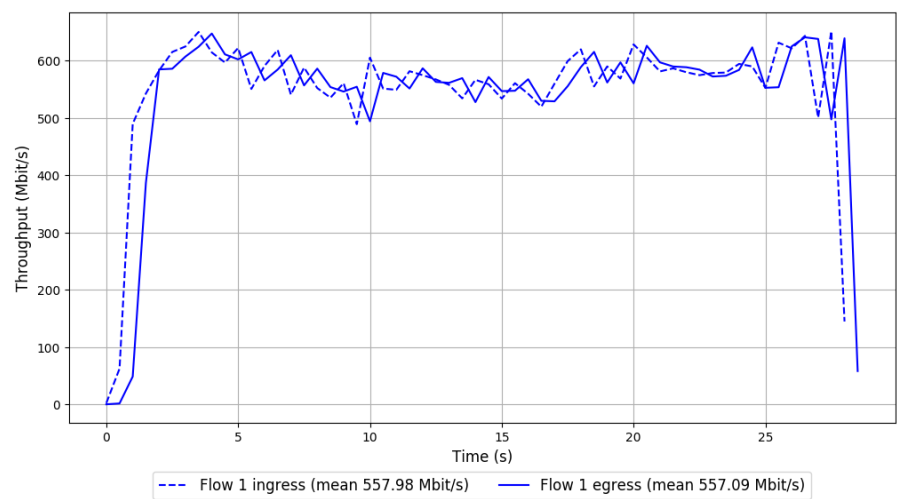


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-07-12 21:13:00
End at: 2019-07-12 21:13:30
Local clock offset: 0.279 ms
Remote clock offset: -0.337 ms

Below is generated by plot.py at 2019-07-13 00:38:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 557.09 Mbit/s
95th percentile per-packet one-way delay: 89.023 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 557.09 Mbit/s
95th percentile per-packet one-way delay: 89.023 ms
Loss rate: 0.57%

Run 2: Report of Indigo-MusesC3 — Data Link

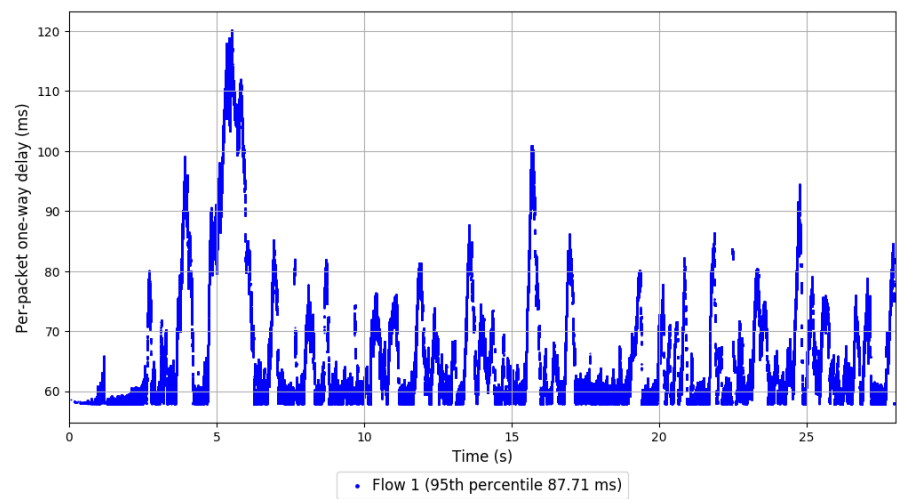
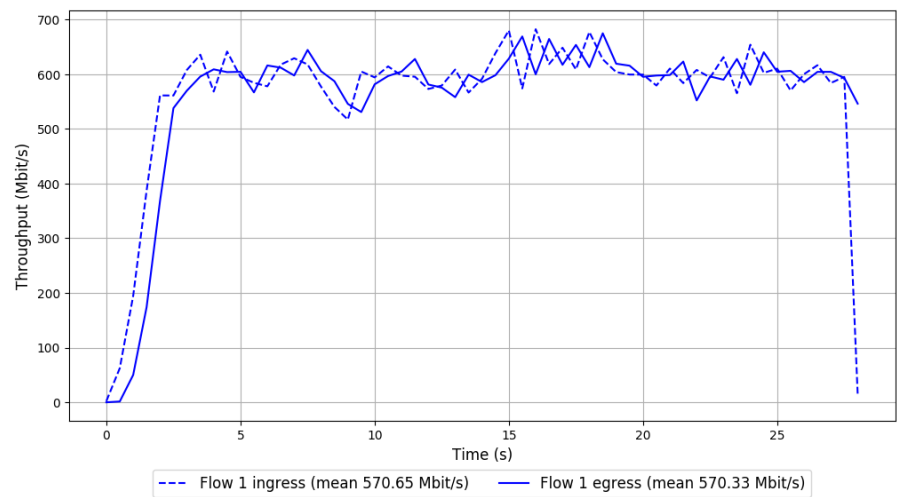


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-07-12 21:48:02
End at: 2019-07-12 21:48:32
Local clock offset: -0.057 ms
Remote clock offset: -1.166 ms

Below is generated by plot.py at 2019-07-13 00:38:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 570.33 Mbit/s
95th percentile per-packet one-way delay: 87.710 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 570.33 Mbit/s
95th percentile per-packet one-way delay: 87.710 ms
Loss rate: 0.47%

Run 3: Report of Indigo-MusesC3 — Data Link

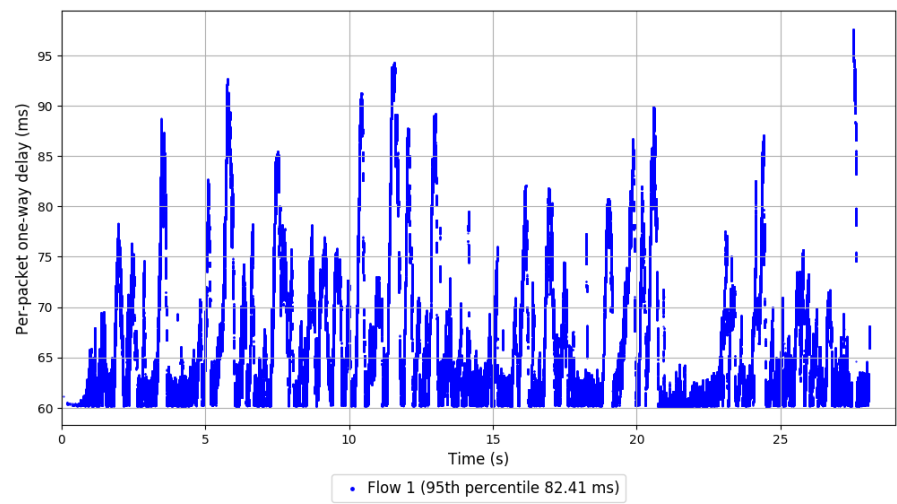
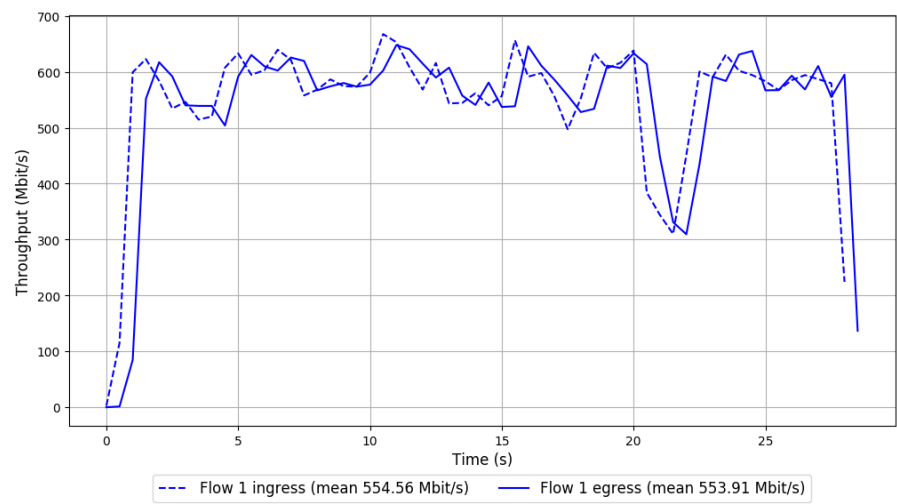


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-07-12 22:23:10
End at: 2019-07-12 22:23:40
Local clock offset: -0.305 ms
Remote clock offset: -0.385 ms

Below is generated by plot.py at 2019-07-13 00:38:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 553.91 Mbit/s
95th percentile per-packet one-way delay: 82.414 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 553.91 Mbit/s
95th percentile per-packet one-way delay: 82.414 ms
Loss rate: 0.54%

Run 4: Report of Indigo-MusesC3 — Data Link

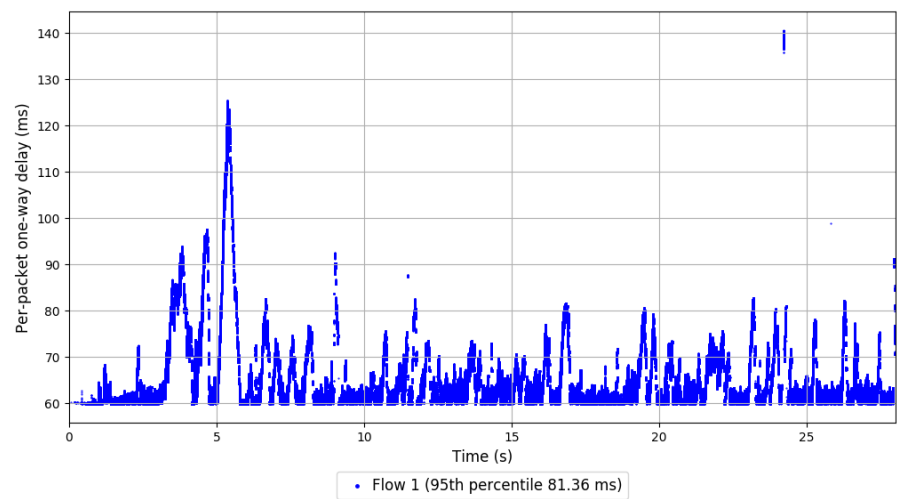
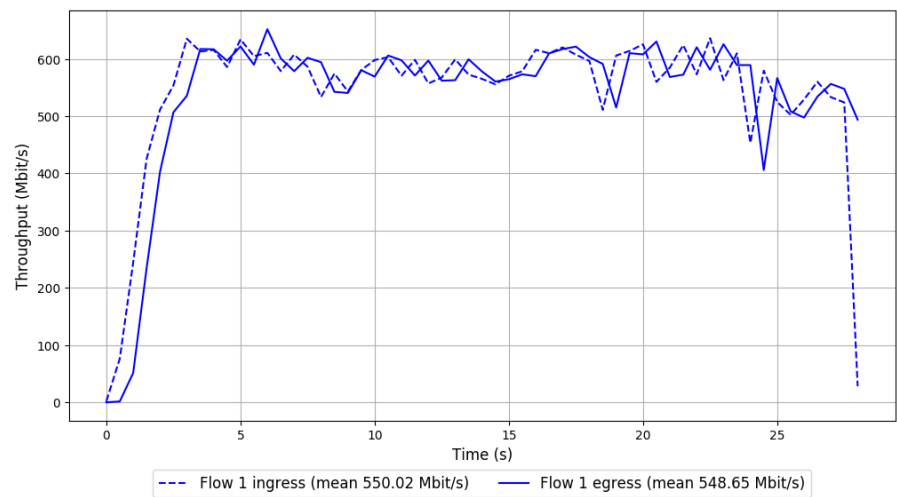


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-07-12 22:58:00
End at: 2019-07-12 22:58:30
Local clock offset: -0.283 ms
Remote clock offset: -0.365 ms

Below is generated by plot.py at 2019-07-13 00:39:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 548.65 Mbit/s
95th percentile per-packet one-way delay: 81.355 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 548.65 Mbit/s
95th percentile per-packet one-way delay: 81.355 ms
Loss rate: 0.66%

Run 5: Report of Indigo-MusesC3 — Data Link

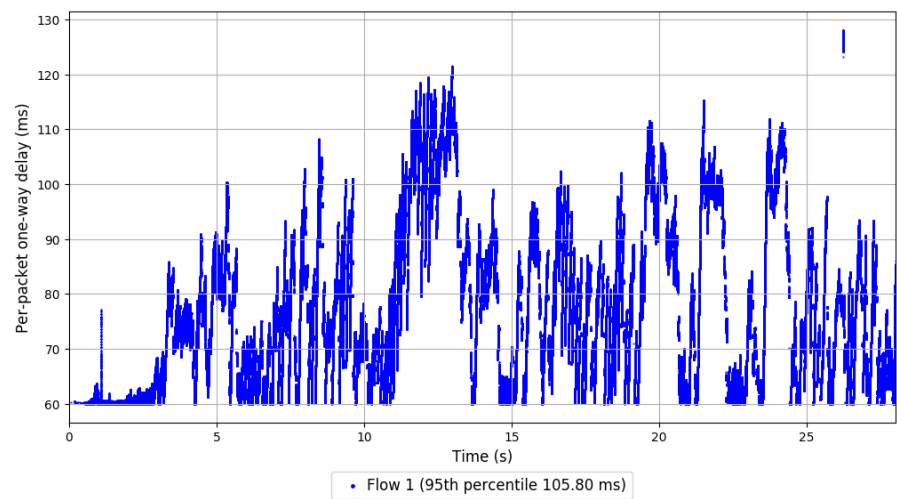
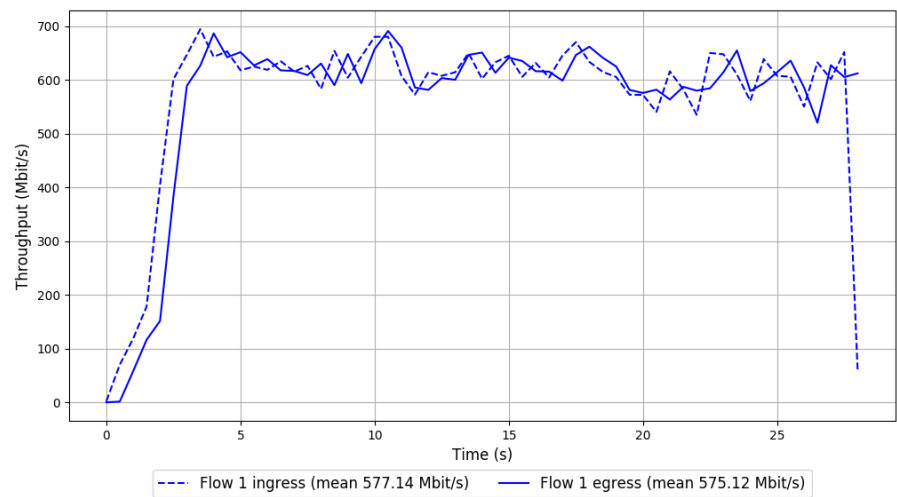


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-07-12 20:46:58
End at: 2019-07-12 20:47:28
Local clock offset: -0.524 ms
Remote clock offset: -0.293 ms

Below is generated by plot.py at 2019-07-13 00:39:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 575.12 Mbit/s
95th percentile per-packet one-way delay: 105.800 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 575.12 Mbit/s
95th percentile per-packet one-way delay: 105.800 ms
Loss rate: 0.73%

Run 1: Report of Indigo-MusesC5 — Data Link

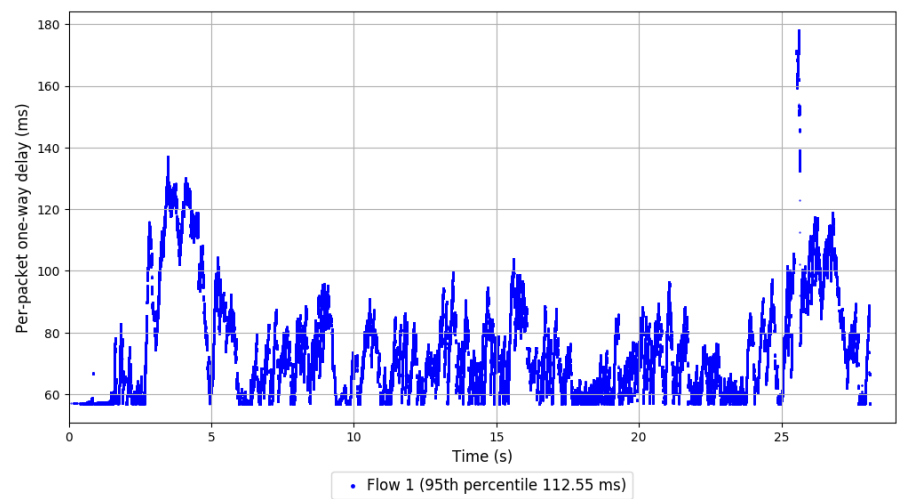
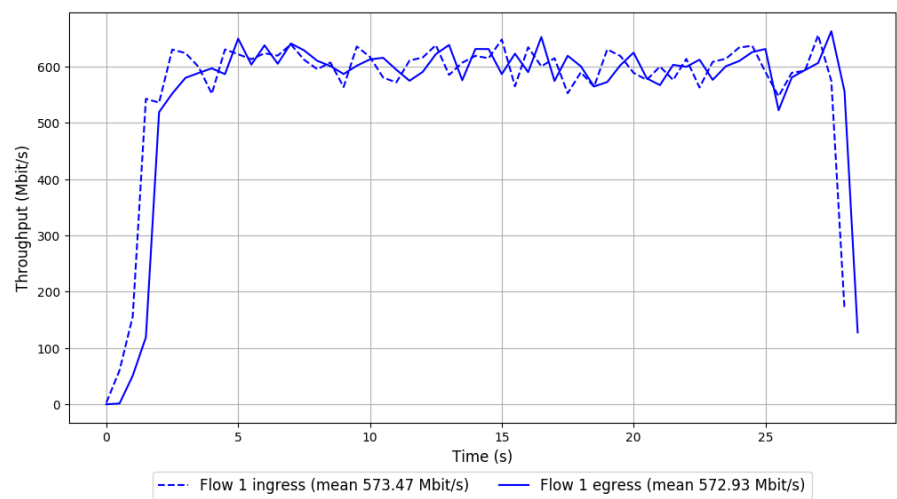


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-07-12 21:21:43
End at: 2019-07-12 21:22:13
Local clock offset: -0.109 ms
Remote clock offset: -0.374 ms

Below is generated by plot.py at 2019-07-13 00:41:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 572.93 Mbit/s
95th percentile per-packet one-way delay: 112.548 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 572.93 Mbit/s
95th percentile per-packet one-way delay: 112.548 ms
Loss rate: 0.50%

Run 2: Report of Indigo-MusesC5 — Data Link

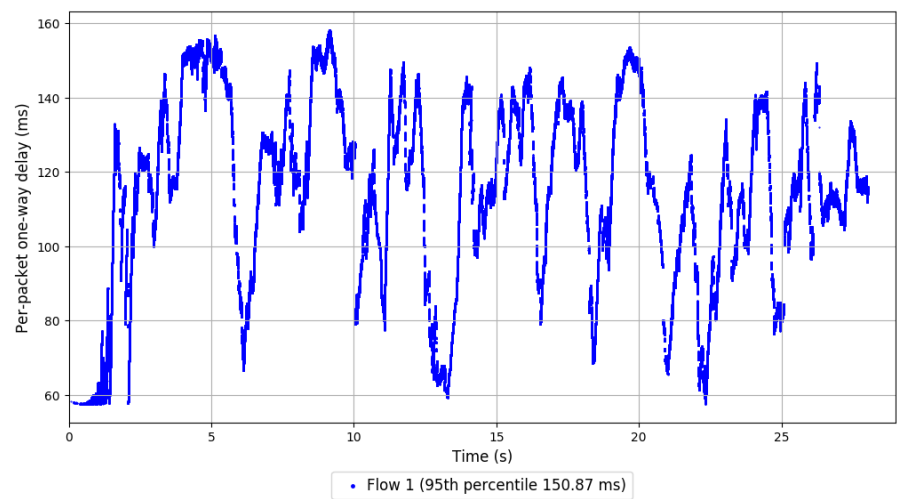
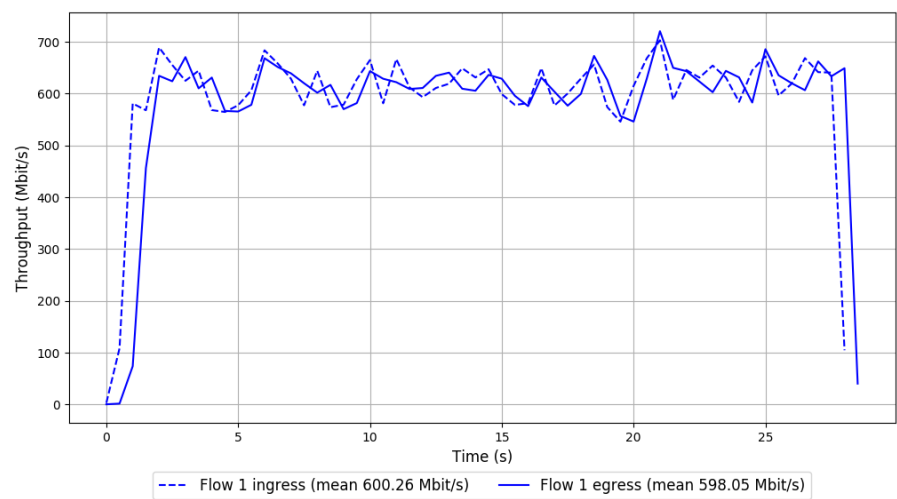


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-07-12 21:56:44
End at: 2019-07-12 21:57:15
Local clock offset: 0.395 ms
Remote clock offset: -0.403 ms

Below is generated by plot.py at 2019-07-13 00:42:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 598.05 Mbit/s
95th percentile per-packet one-way delay: 150.866 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 598.05 Mbit/s
95th percentile per-packet one-way delay: 150.866 ms
Loss rate: 0.78%

Run 3: Report of Indigo-MusesC5 — Data Link

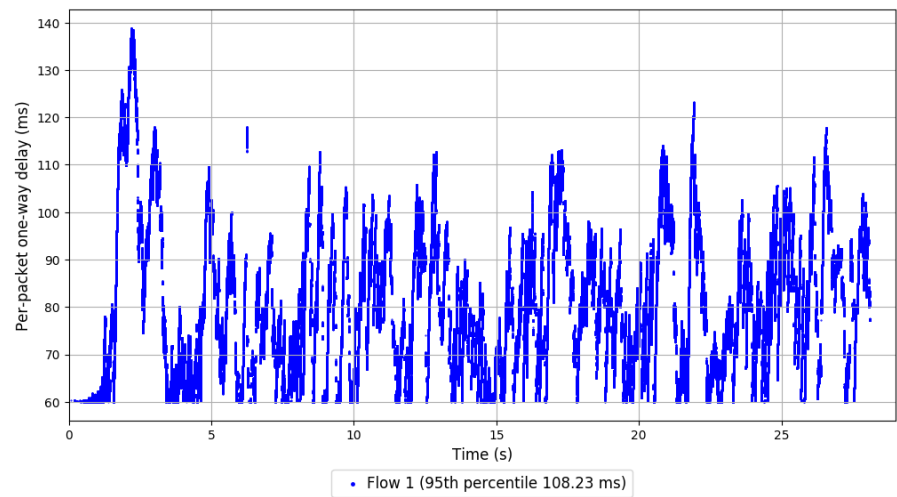
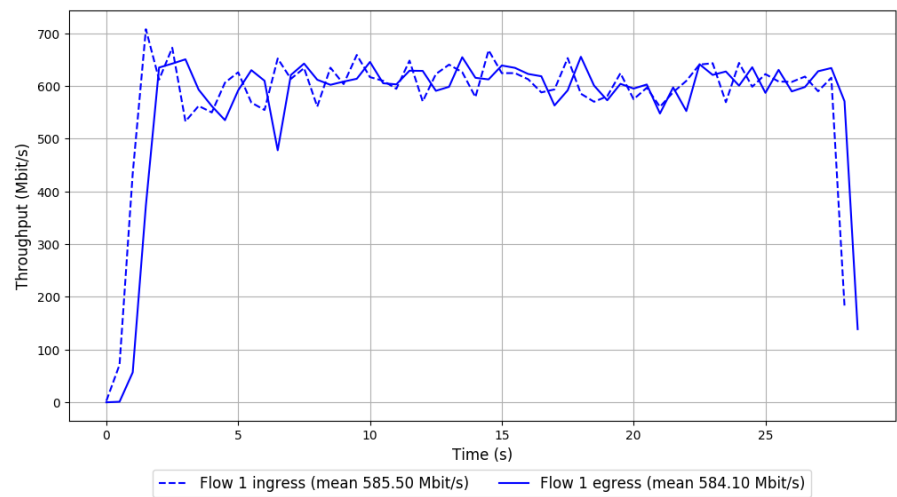


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-07-12 22:31:48
End at: 2019-07-12 22:32:18
Local clock offset: -0.458 ms
Remote clock offset: -0.369 ms

Below is generated by plot.py at 2019-07-13 00:47:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 584.10 Mbit/s
95th percentile per-packet one-way delay: 108.227 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 584.10 Mbit/s
95th percentile per-packet one-way delay: 108.227 ms
Loss rate: 0.66%

Run 4: Report of Indigo-MusesC5 — Data Link

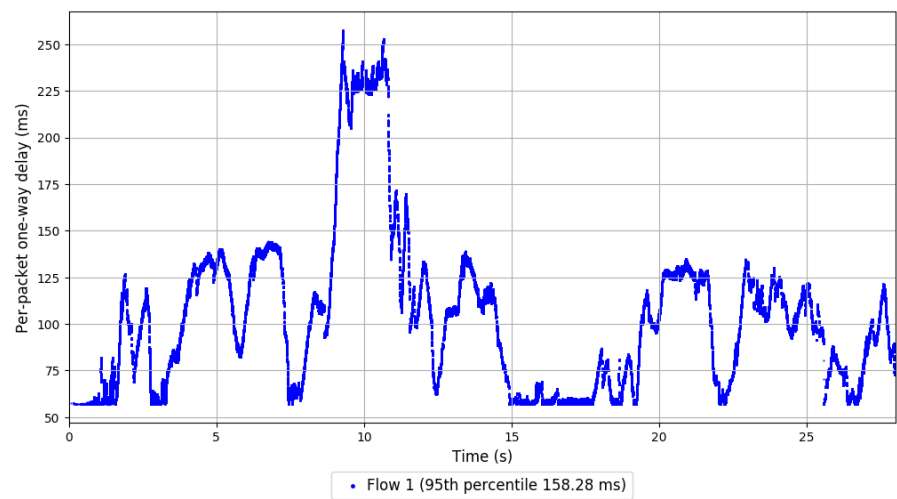
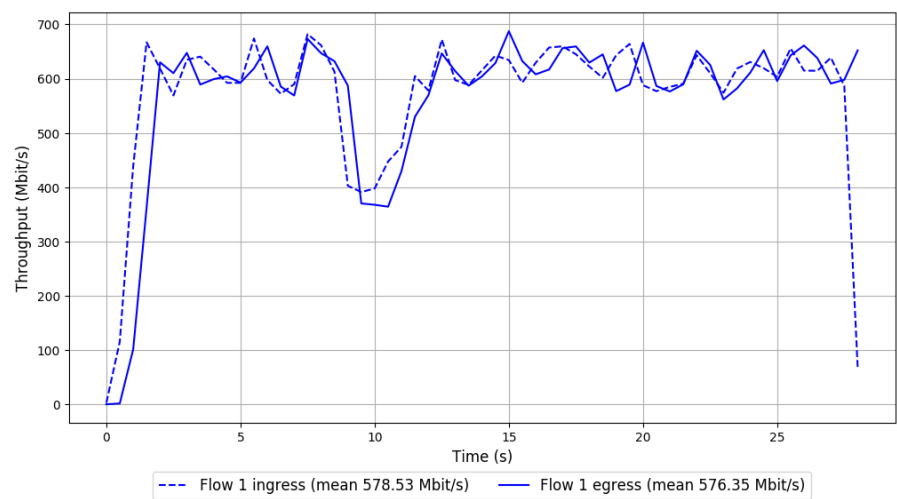


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-07-12 23:06:44
End at: 2019-07-12 23:07:14
Local clock offset: -0.052 ms
Remote clock offset: -0.481 ms

Below is generated by plot.py at 2019-07-13 00:48:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 576.35 Mbit/s
95th percentile per-packet one-way delay: 158.282 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 576.35 Mbit/s
95th percentile per-packet one-way delay: 158.282 ms
Loss rate: 0.78%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-07-12 20:59:48

End at: 2019-07-12 21:00:18

Local clock offset: 0.022 ms

Remote clock offset: -0.225 ms

Below is generated by plot.py at 2019-07-13 00:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 485.30 Mbit/s

95th percentile per-packet one-way delay: 100.250 ms

Loss rate: 0.58%

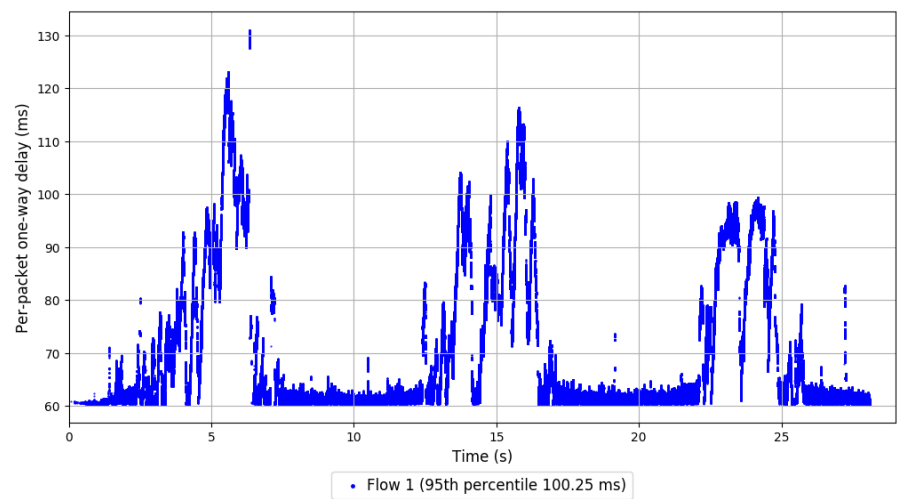
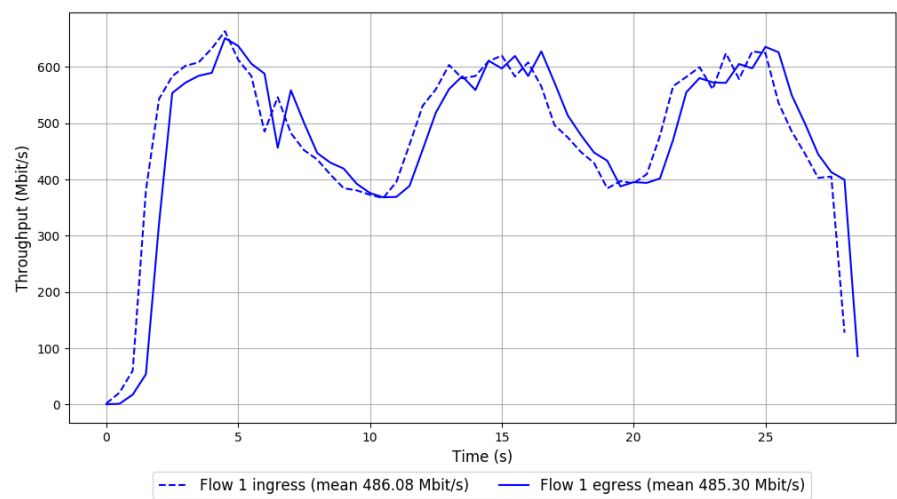
-- Flow 1:

Average throughput: 485.30 Mbit/s

95th percentile per-packet one-way delay: 100.250 ms

Loss rate: 0.58%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-07-12 21:34:54

End at: 2019-07-12 21:35:24

Local clock offset: -0.112 ms

Remote clock offset: -0.38 ms

Below is generated by plot.py at 2019-07-13 00:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 533.89 Mbit/s

95th percentile per-packet one-way delay: 91.441 ms

Loss rate: 0.58%

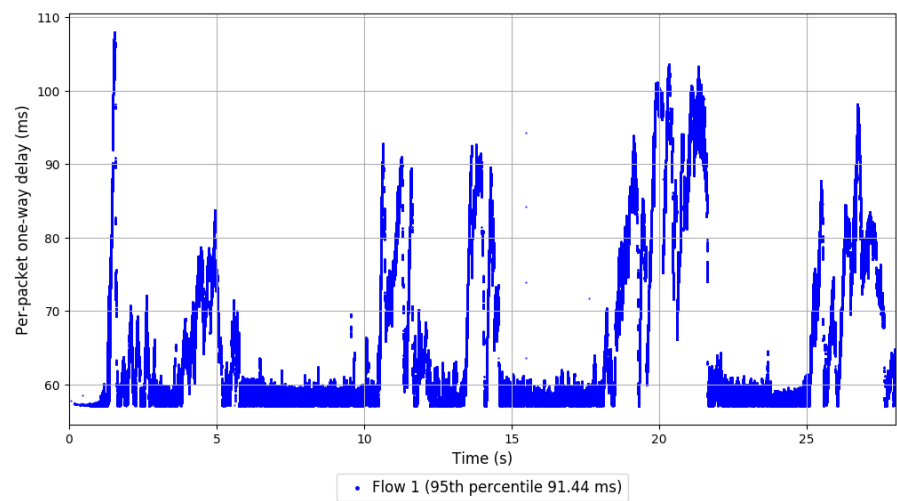
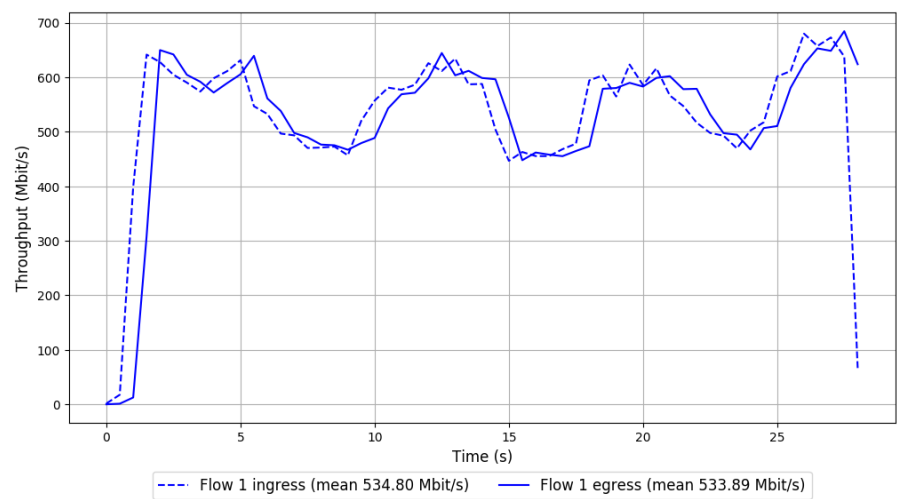
-- Flow 1:

Average throughput: 533.89 Mbit/s

95th percentile per-packet one-way delay: 91.441 ms

Loss rate: 0.58%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-07-12 22:09:59

End at: 2019-07-12 22:10:29

Local clock offset: 0.003 ms

Remote clock offset: -0.437 ms

Below is generated by plot.py at 2019-07-13 00:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 466.90 Mbit/s

95th percentile per-packet one-way delay: 115.667 ms

Loss rate: 0.86%

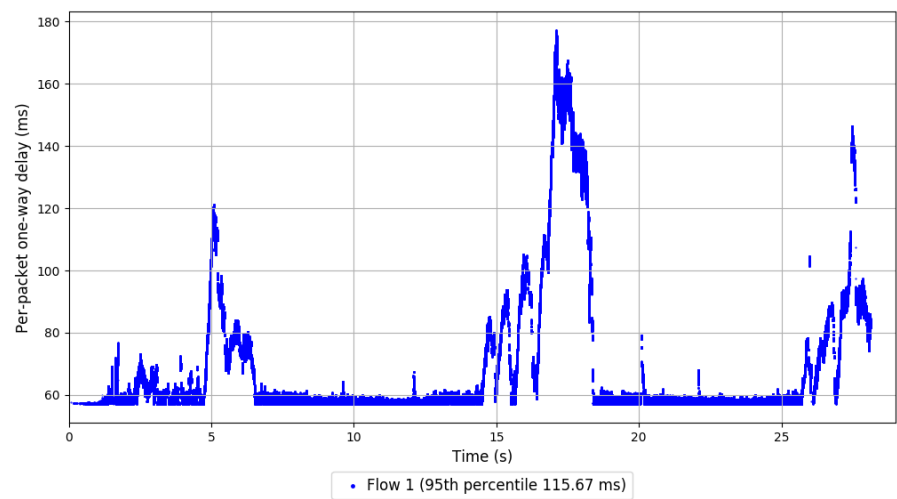
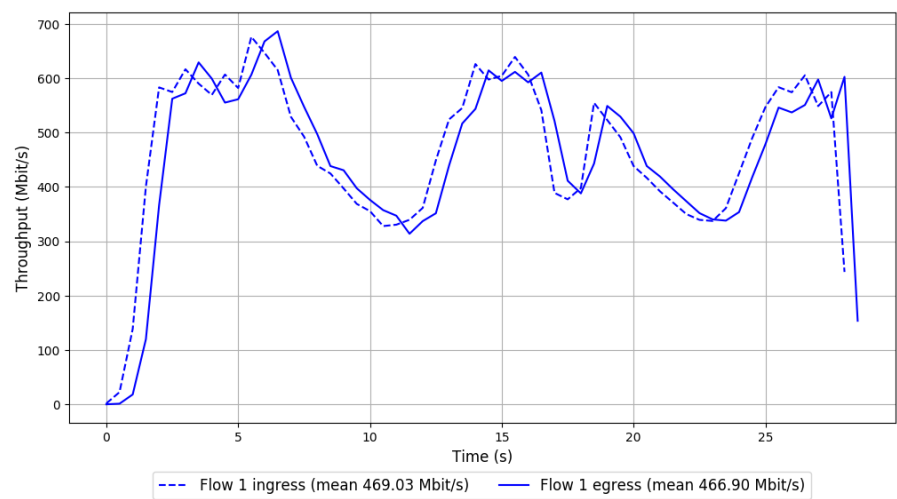
-- Flow 1:

Average throughput: 466.90 Mbit/s

95th percentile per-packet one-way delay: 115.667 ms

Loss rate: 0.86%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-07-12 22:44:43

End at: 2019-07-12 22:45:13

Local clock offset: -0.232 ms

Remote clock offset: -0.233 ms

Below is generated by plot.py at 2019-07-13 00:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 480.57 Mbit/s

95th percentile per-packet one-way delay: 84.171 ms

Loss rate: 0.45%

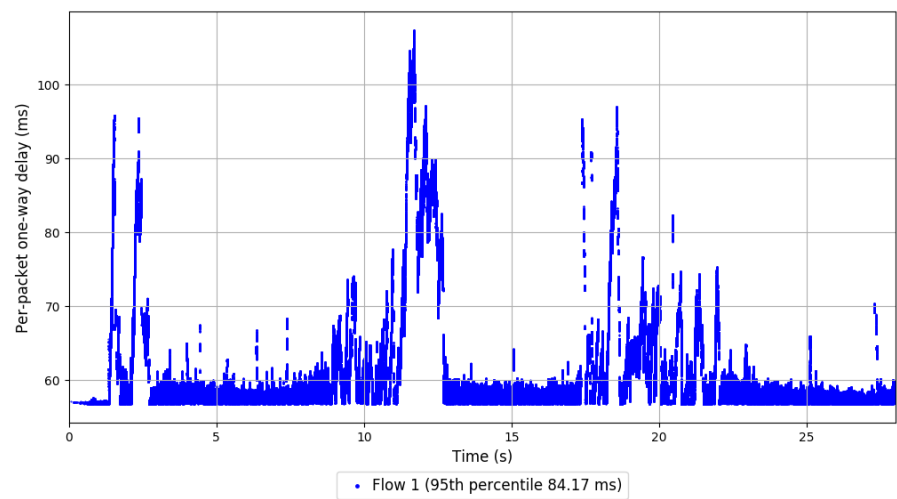
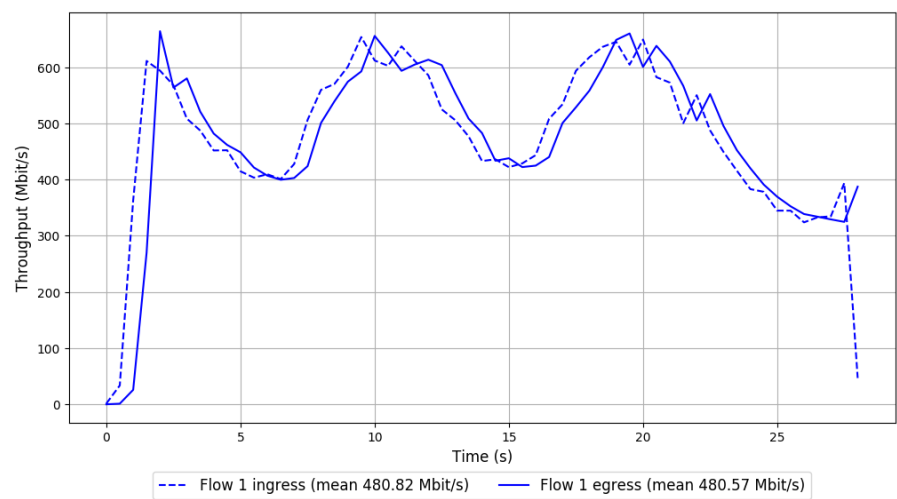
-- Flow 1:

Average throughput: 480.57 Mbit/s

95th percentile per-packet one-way delay: 84.171 ms

Loss rate: 0.45%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-07-12 23:19:54

End at: 2019-07-12 23:20:24

Local clock offset: -0.06 ms

Remote clock offset: -0.258 ms

Below is generated by plot.py at 2019-07-13 00:51:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 536.69 Mbit/s

95th percentile per-packet one-way delay: 92.301 ms

Loss rate: 0.29%

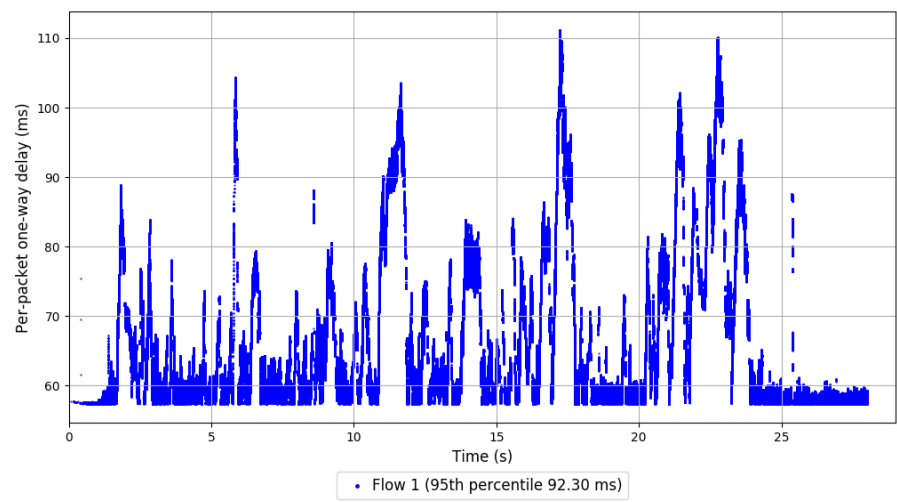
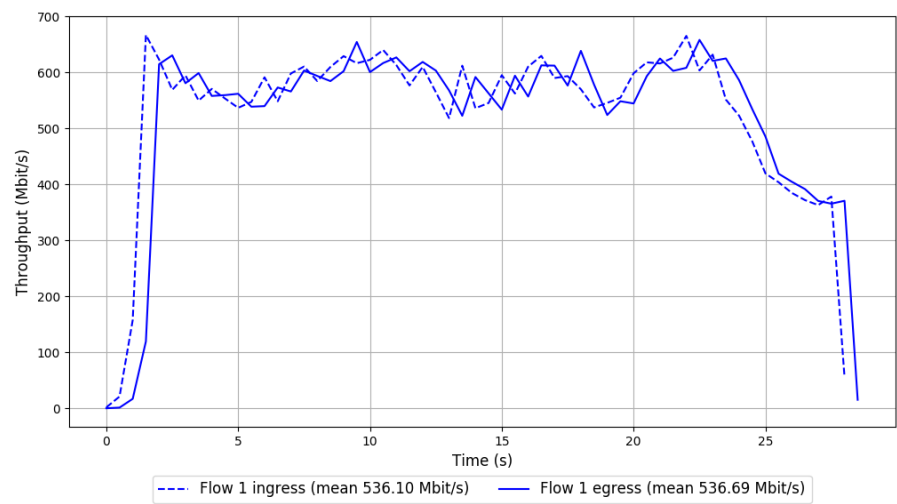
-- Flow 1:

Average throughput: 536.69 Mbit/s

95th percentile per-packet one-way delay: 92.301 ms

Loss rate: 0.29%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-07-12 20:43:55

End at: 2019-07-12 20:44:25

Local clock offset: 0.099 ms

Remote clock offset: -0.302 ms

Below is generated by plot.py at 2019-07-13 00:53:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 620.64 Mbit/s

95th percentile per-packet one-way delay: 129.133 ms

Loss rate: 0.37%

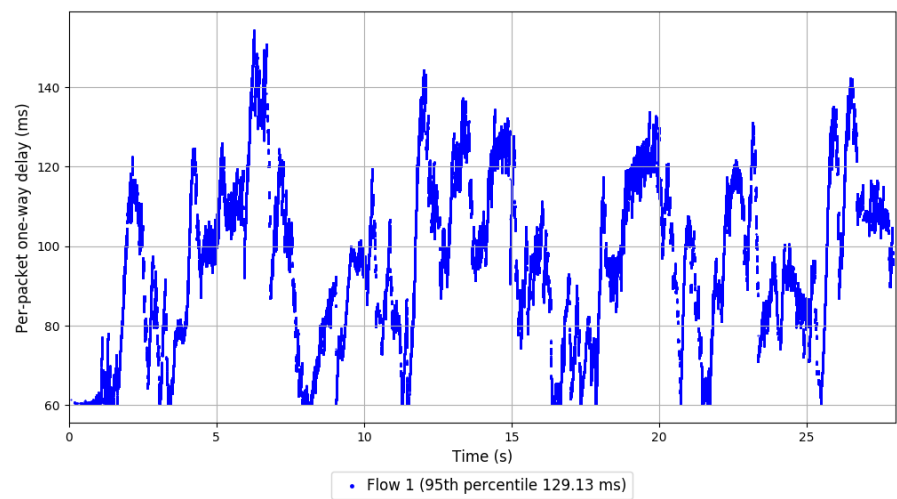
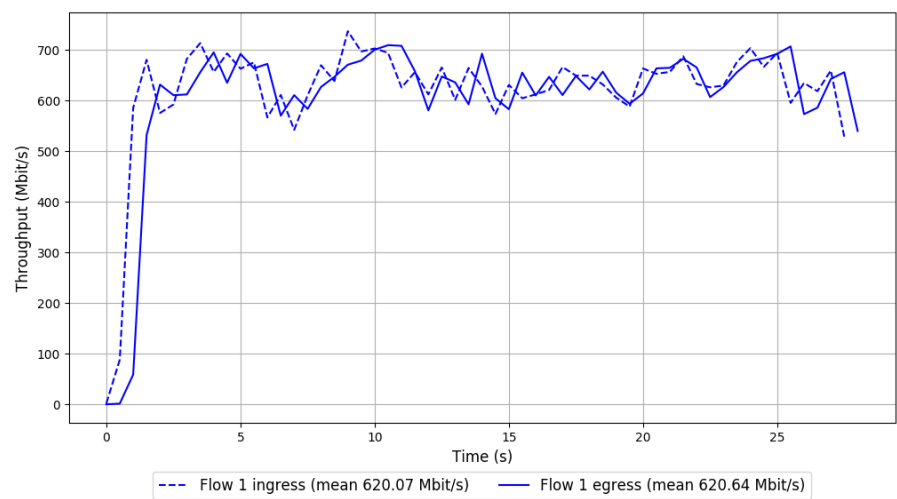
-- Flow 1:

Average throughput: 620.64 Mbit/s

95th percentile per-packet one-way delay: 129.133 ms

Loss rate: 0.37%

Run 1: Report of Indigo-MusesT — Data Link

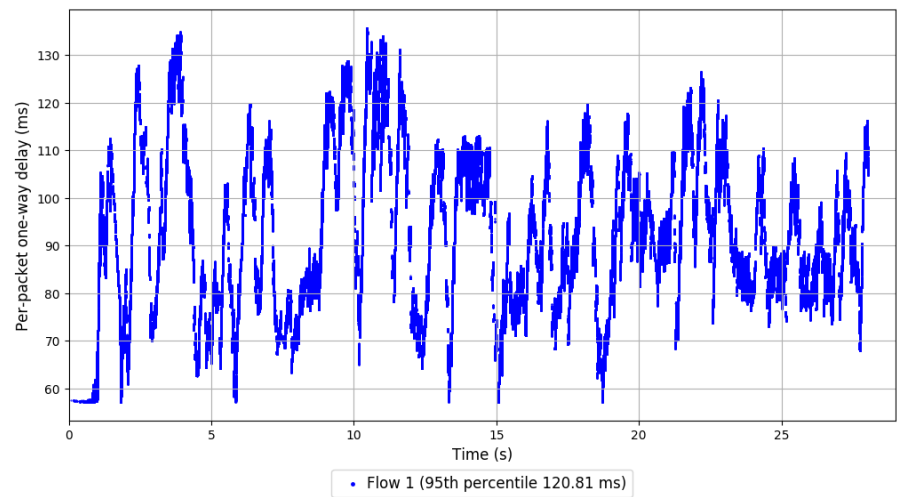
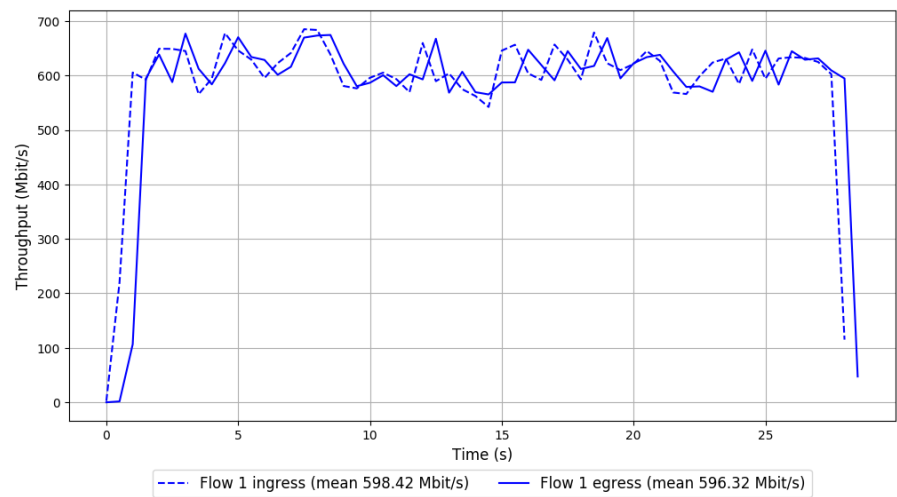


Run 2: Statistics of Indigo-MusesT

Start at: 2019-07-12 21:18:39
End at: 2019-07-12 21:19:09
Local clock offset: 0.231 ms
Remote clock offset: -0.364 ms

Below is generated by plot.py at 2019-07-13 00:57:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 596.32 Mbit/s
95th percentile per-packet one-way delay: 120.807 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 596.32 Mbit/s
95th percentile per-packet one-way delay: 120.807 ms
Loss rate: 0.74%

Run 2: Report of Indigo-MusesT — Data Link

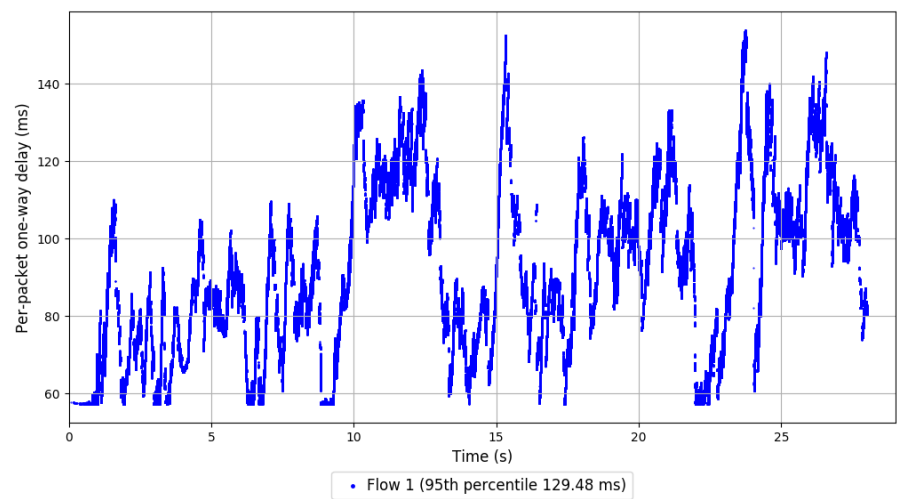
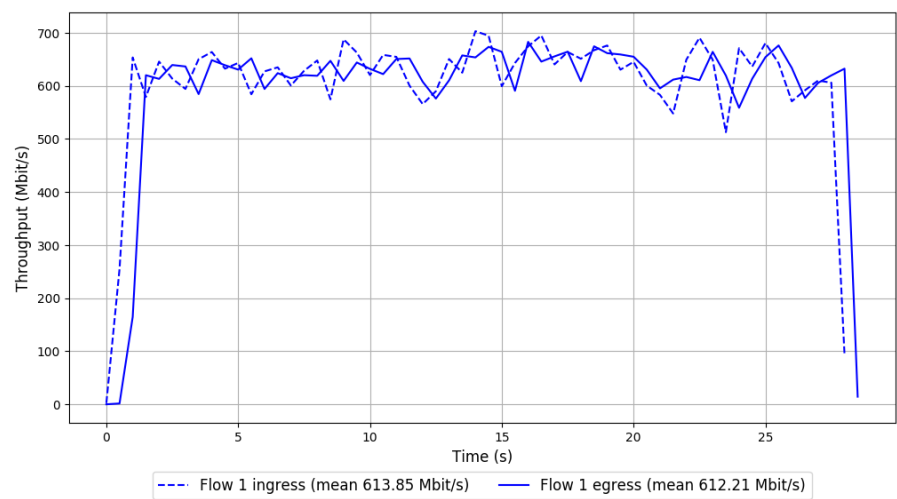


Run 3: Statistics of Indigo-MusesT

Start at: 2019-07-12 21:53:38
End at: 2019-07-12 21:54:08
Local clock offset: 0.407 ms
Remote clock offset: -0.406 ms

Below is generated by plot.py at 2019-07-13 00:57:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 612.21 Mbit/s
95th percentile per-packet one-way delay: 129.483 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 612.21 Mbit/s
95th percentile per-packet one-way delay: 129.483 ms
Loss rate: 0.67%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-07-12 22:28:44

End at: 2019-07-12 22:29:14

Local clock offset: -0.194 ms

Remote clock offset: -0.444 ms

Below is generated by plot.py at 2019-07-13 00:59:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 612.09 Mbit/s

95th percentile per-packet one-way delay: 115.836 ms

Loss rate: 0.74%

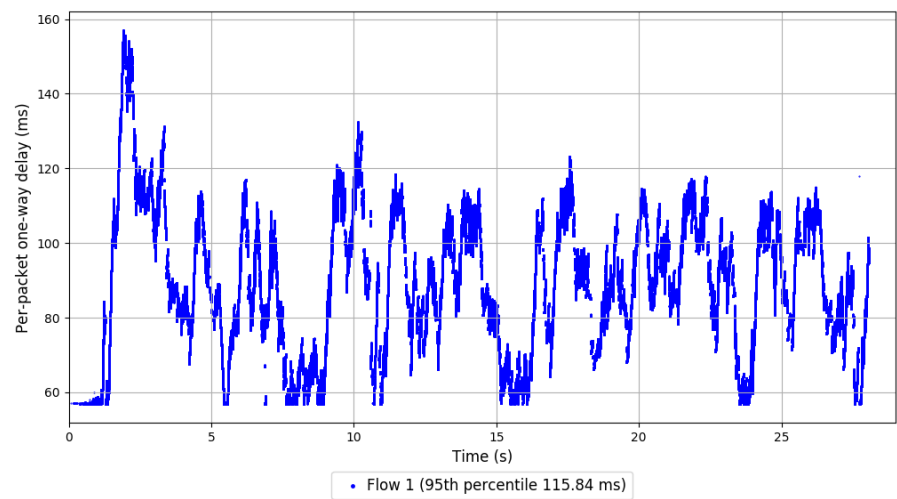
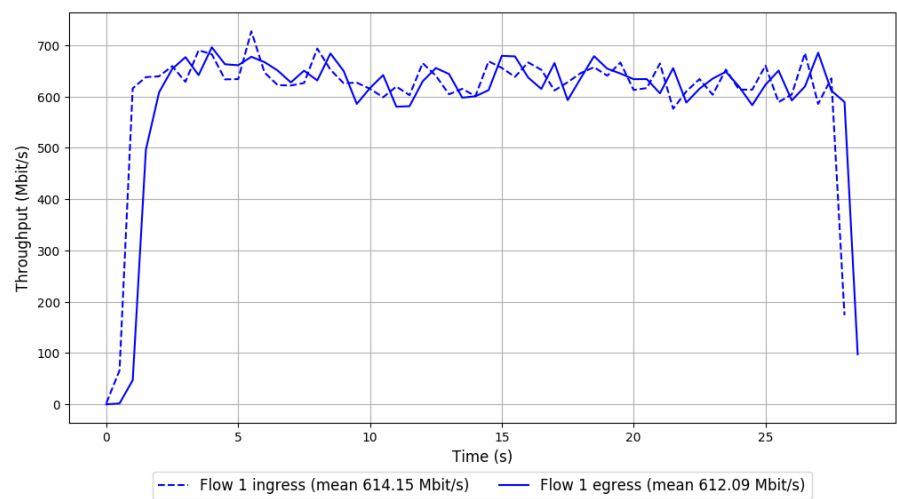
-- Flow 1:

Average throughput: 612.09 Mbit/s

95th percentile per-packet one-way delay: 115.836 ms

Loss rate: 0.74%

Run 4: Report of Indigo-MusesT — Data Link

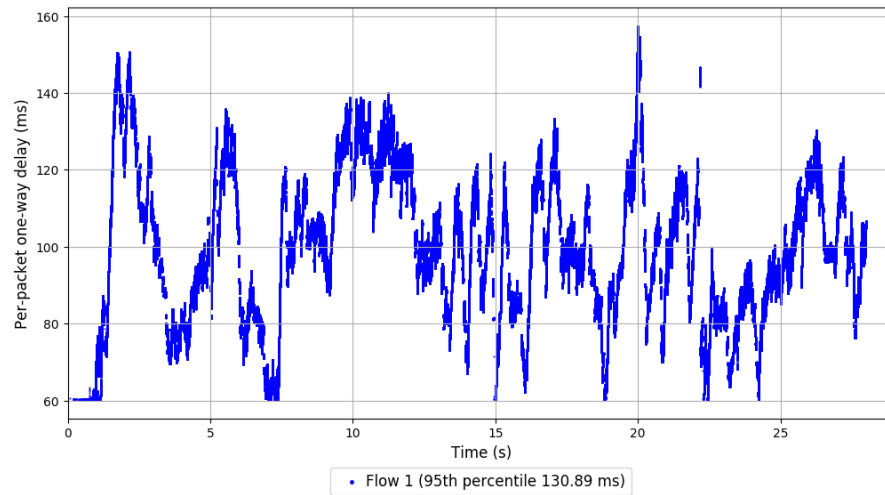
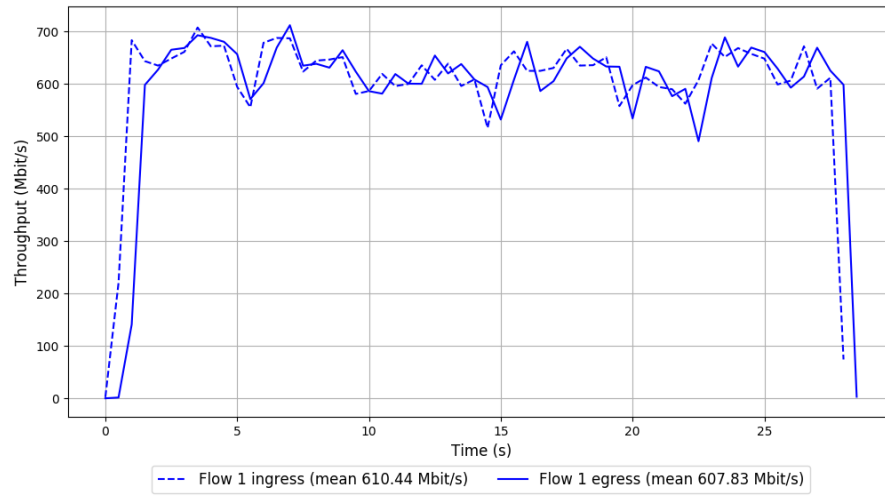


Run 5: Statistics of Indigo-MusesT

Start at: 2019-07-12 23:03:40
End at: 2019-07-12 23:04:10
Local clock offset: -0.326 ms
Remote clock offset: -0.412 ms

Below is generated by plot.py at 2019-07-13 00:59:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 607.83 Mbit/s
95th percentile per-packet one-way delay: 130.889 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 607.83 Mbit/s
95th percentile per-packet one-way delay: 130.889 ms
Loss rate: 0.84%

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-07-12 20:42:44

End at: 2019-07-12 20:43:14

Local clock offset: -0.06 ms

Remote clock offset: -0.32 ms

Below is generated by plot.py at 2019-07-13 00:59:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.74 Mbit/s

95th percentile per-packet one-way delay: 62.344 ms

Loss rate: 0.78%

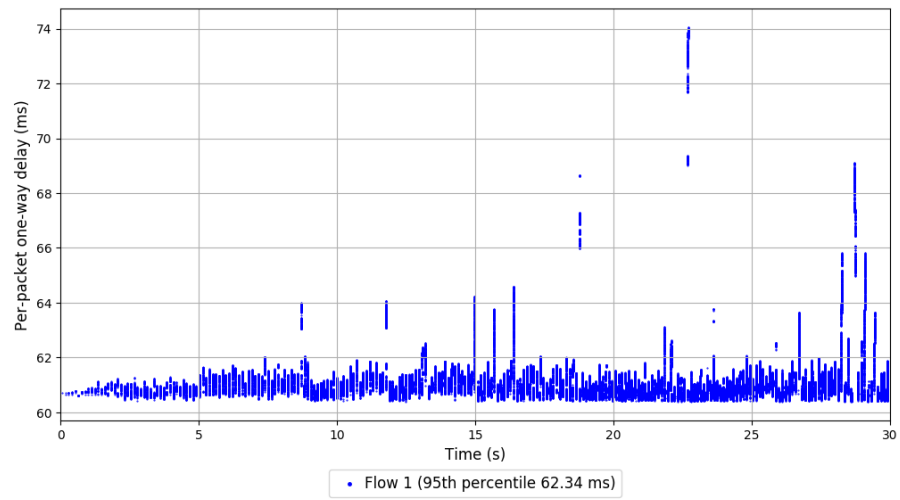
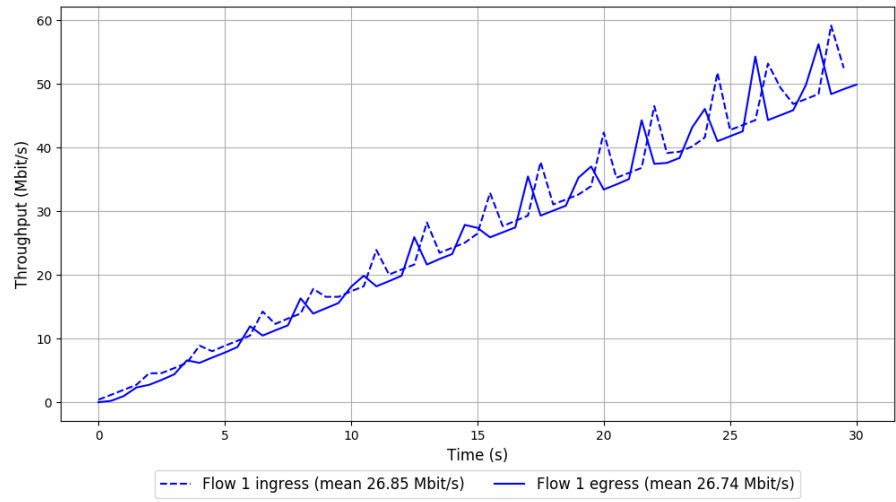
-- Flow 1:

Average throughput: 26.74 Mbit/s

95th percentile per-packet one-way delay: 62.344 ms

Loss rate: 0.78%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-07-12 21:17:29

End at: 2019-07-12 21:17:59

Local clock offset: 0.26 ms

Remote clock offset: -0.57 ms

Below is generated by plot.py at 2019-07-13 00:59:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.19 Mbit/s

95th percentile per-packet one-way delay: 58.857 ms

Loss rate: 0.76%

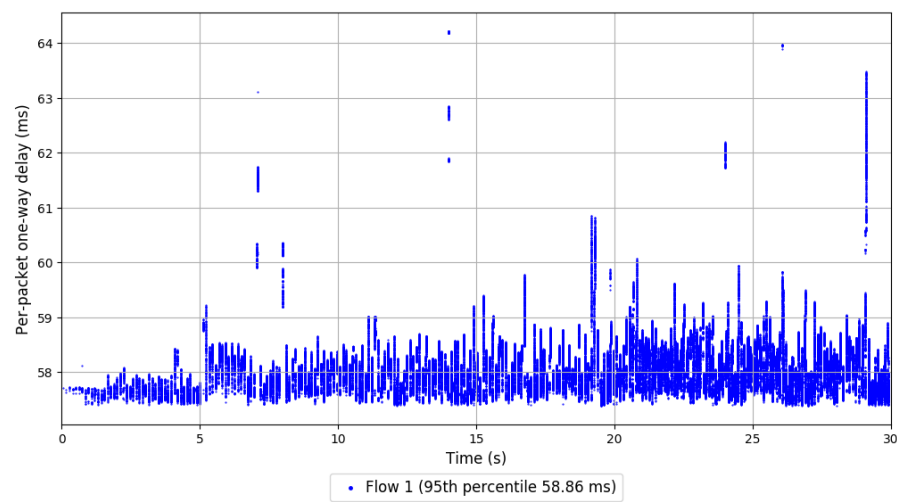
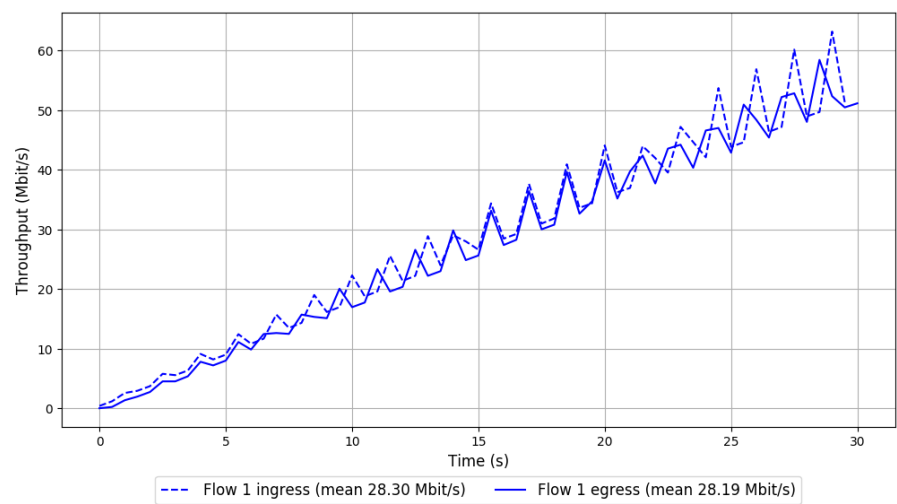
-- Flow 1:

Average throughput: 28.19 Mbit/s

95th percentile per-packet one-way delay: 58.857 ms

Loss rate: 0.76%

Run 2: Report of LEDBAT — Data Link

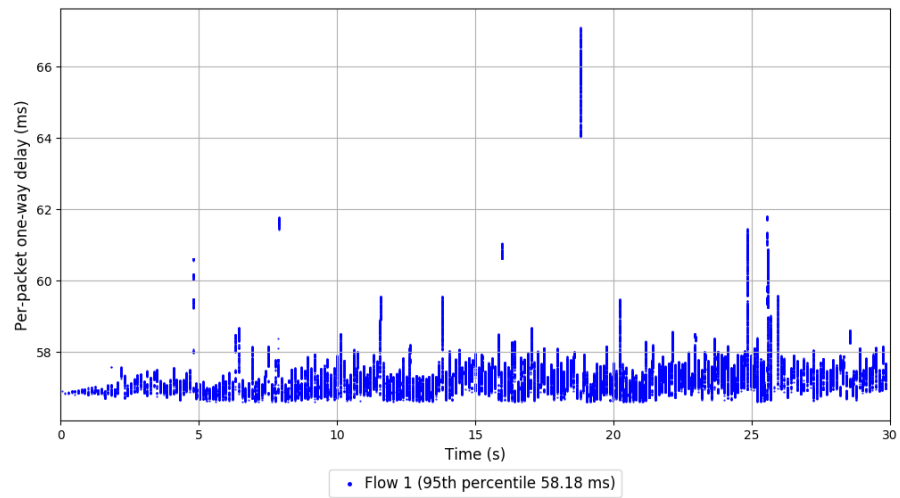
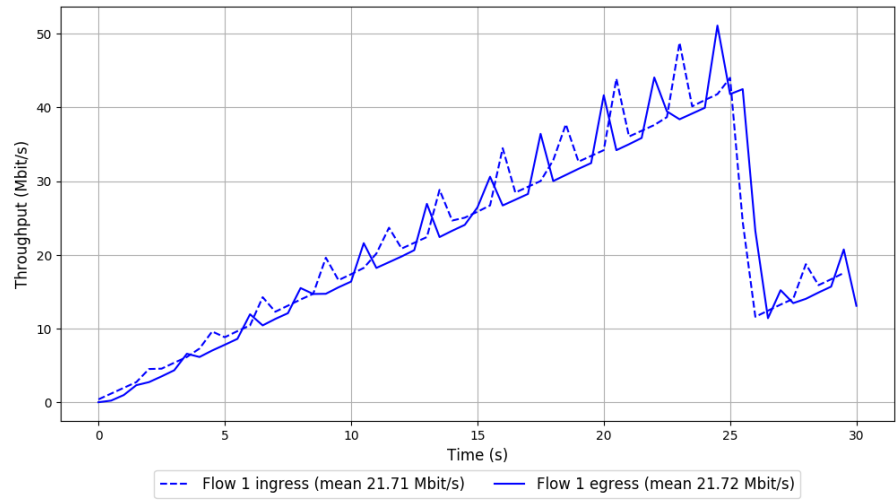


Run 3: Statistics of LEDBAT

Start at: 2019-07-12 21:52:28
End at: 2019-07-12 21:52:58
Local clock offset: -0.269 ms
Remote clock offset: -0.137 ms

Below is generated by plot.py at 2019-07-13 00:59:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 21.72 Mbit/s
95th percentile per-packet one-way delay: 58.182 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 21.72 Mbit/s
95th percentile per-packet one-way delay: 58.182 ms
Loss rate: 0.34%

Run 3: Report of LEDBAT — Data Link

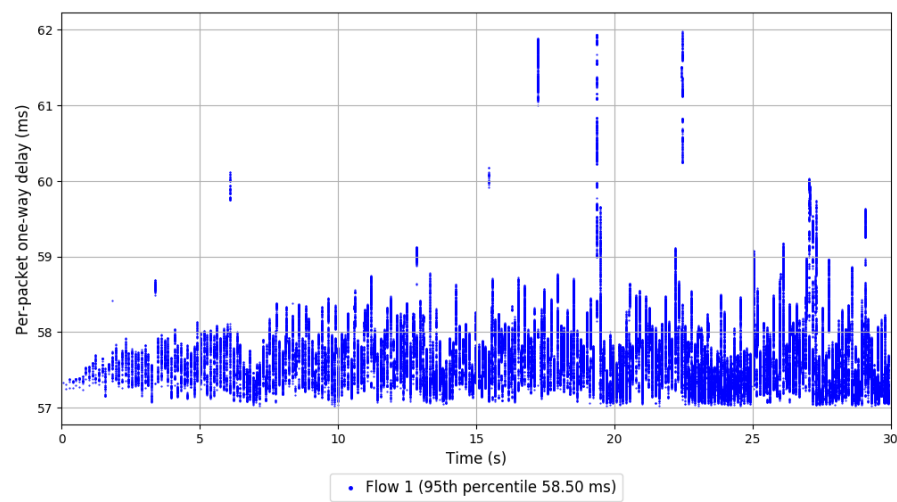
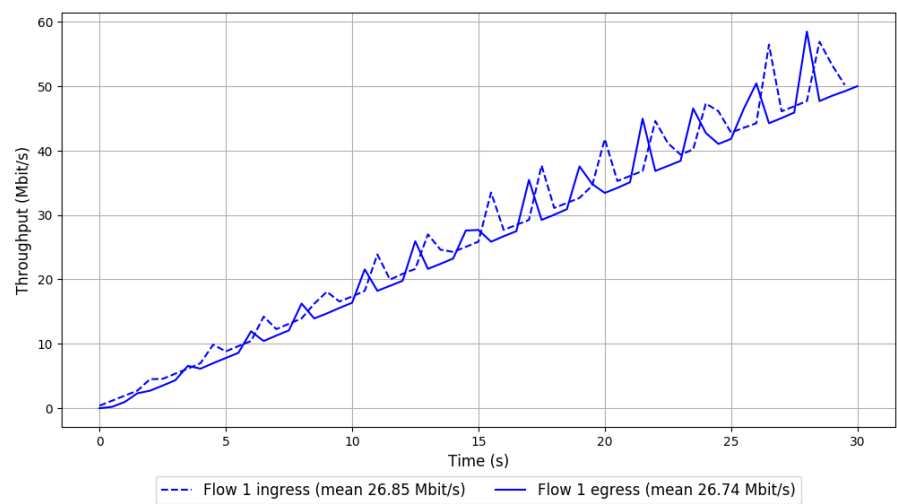


Run 4: Statistics of LEDBAT

Start at: 2019-07-12 22:27:33
End at: 2019-07-12 22:28:03
Local clock offset: -0.086 ms
Remote clock offset: -0.469 ms

Below is generated by plot.py at 2019-07-13 00:59:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 26.74 Mbit/s
95th percentile per-packet one-way delay: 58.497 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 26.74 Mbit/s
95th percentile per-packet one-way delay: 58.497 ms
Loss rate: 0.78%

Run 4: Report of LEDBAT — Data Link

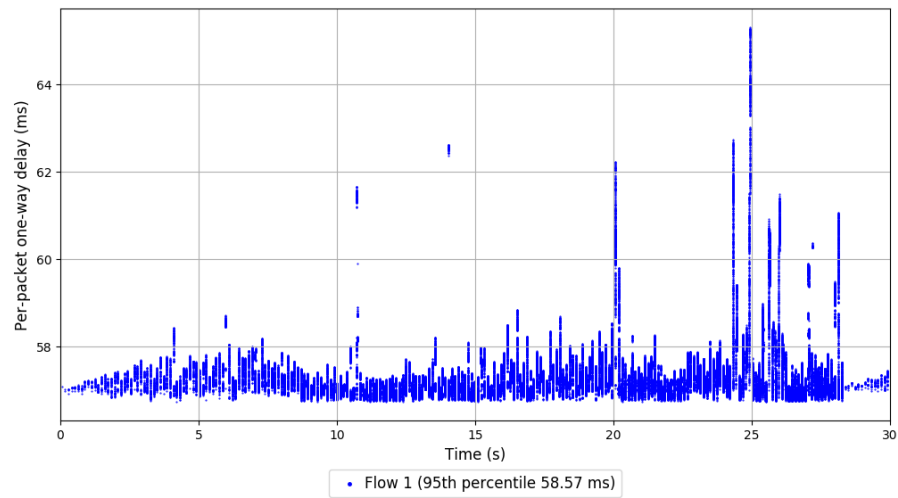
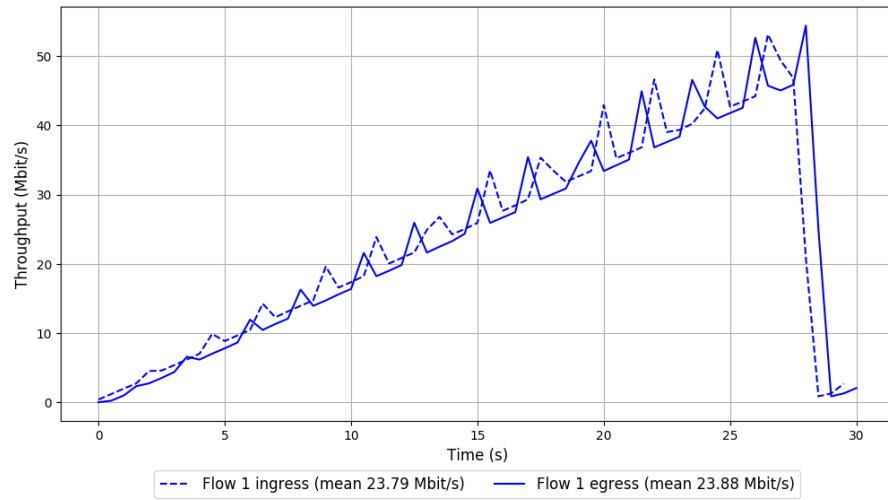


Run 5: Statistics of LEDBAT

Start at: 2019-07-12 23:02:29
End at: 2019-07-12 23:02:59
Local clock offset: -0.302 ms
Remote clock offset: -0.363 ms

Below is generated by plot.py at 2019-07-13 00:59:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 23.88 Mbit/s
95th percentile per-packet one-way delay: 58.571 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 23.88 Mbit/s
95th percentile per-packet one-way delay: 58.571 ms
Loss rate: 0.04%

Run 5: Report of LEDBAT — Data Link

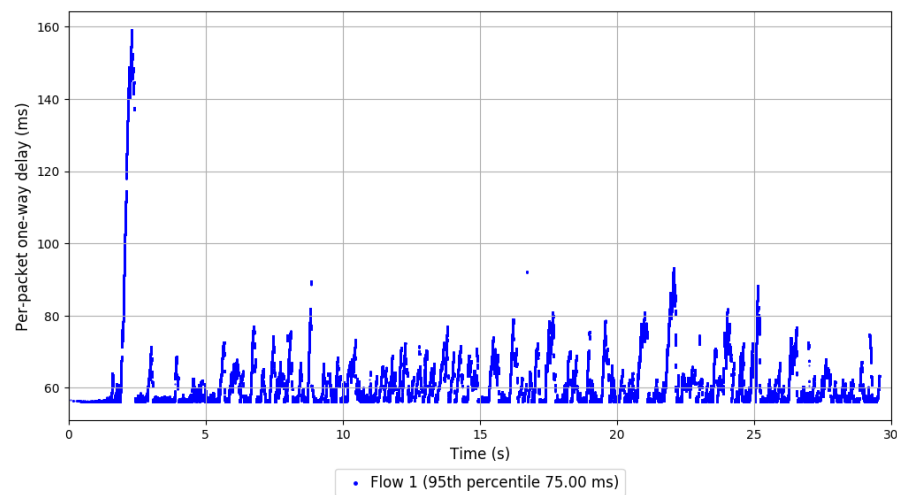
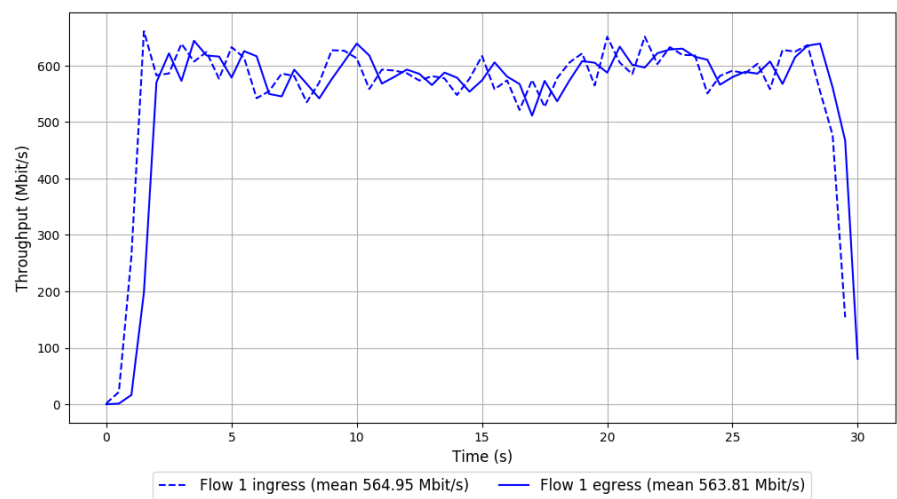


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-07-12 21:07:02
End at: 2019-07-12 21:07:32
Local clock offset: -0.353 ms
Remote clock offset: 0.395 ms

# Below is generated by plot.py at 2019-07-13 01:00:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 563.81 Mbit/s
95th percentile per-packet one-way delay: 75.005 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 563.81 Mbit/s
95th percentile per-packet one-way delay: 75.005 ms
Loss rate: 0.59%
```

Run 1: Report of Muses_DecisionTree — Data Link



Run 2: Statistics of Muses_DecisionTree

Start at: 2019-07-12 21:42:08

End at: 2019-07-12 21:42:38

Local clock offset: -0.409 ms

Remote clock offset: 0.307 ms

Below is generated by plot.py at 2019-07-13 01:01:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 548.47 Mbit/s

95th percentile per-packet one-way delay: 76.308 ms

Loss rate: 0.68%

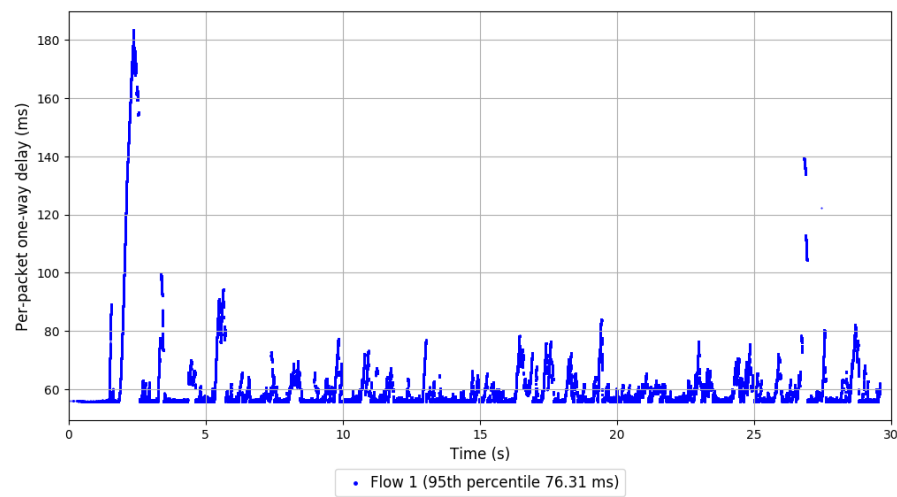
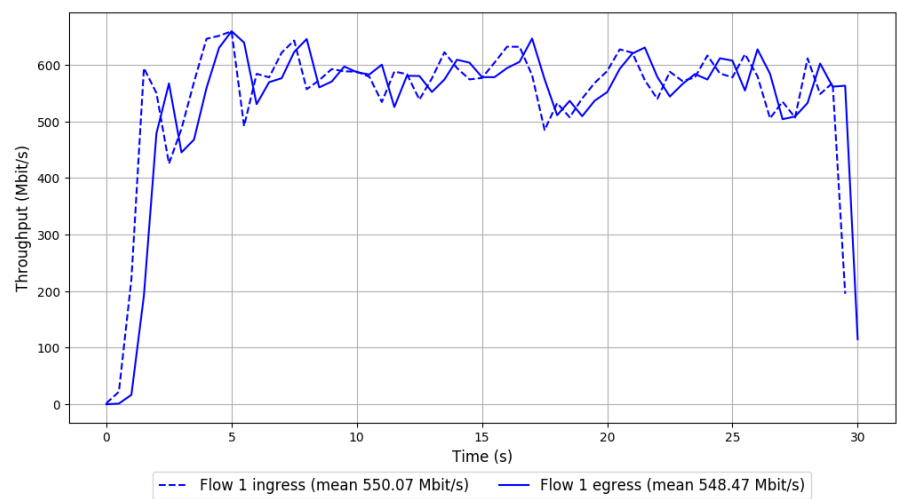
-- Flow 1:

Average throughput: 548.47 Mbit/s

95th percentile per-packet one-way delay: 76.308 ms

Loss rate: 0.68%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

Start at: 2019-07-12 22:17:15

End at: 2019-07-12 22:17:45

Local clock offset: 0.342 ms

Remote clock offset: -0.54 ms

Below is generated by plot.py at 2019-07-13 01:01:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 549.01 Mbit/s

95th percentile per-packet one-way delay: 75.158 ms

Loss rate: 0.58%

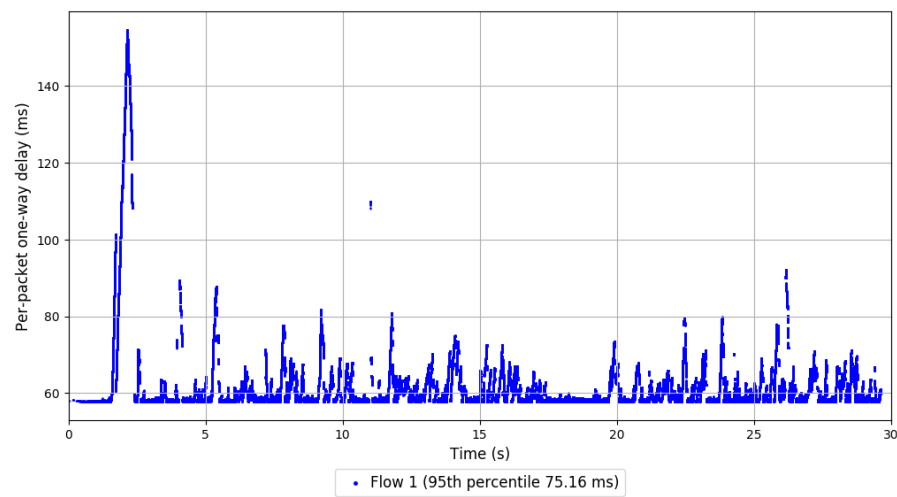
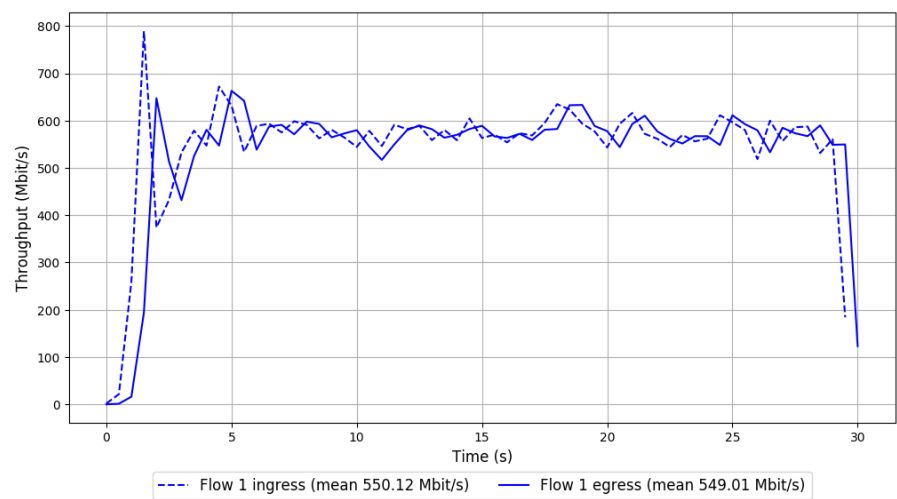
-- Flow 1:

Average throughput: 549.01 Mbit/s

95th percentile per-packet one-way delay: 75.158 ms

Loss rate: 0.58%

Run 3: Report of Muses_DecisionTree — Data Link

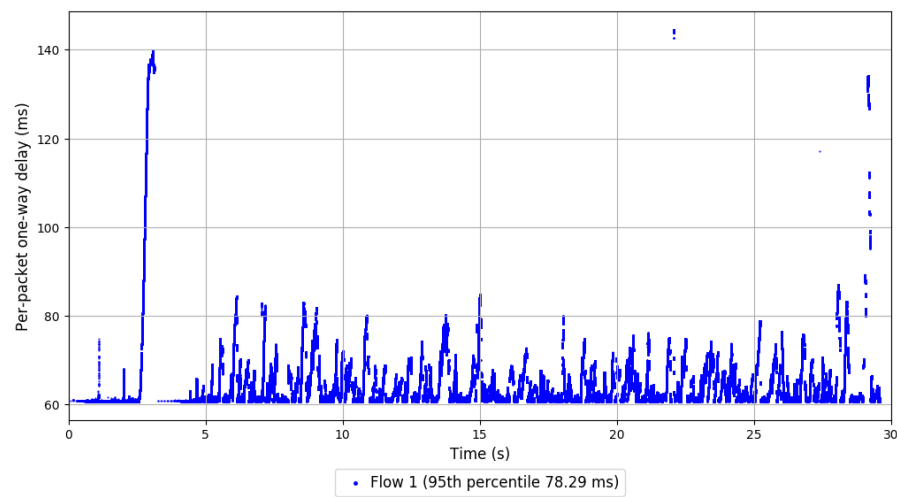
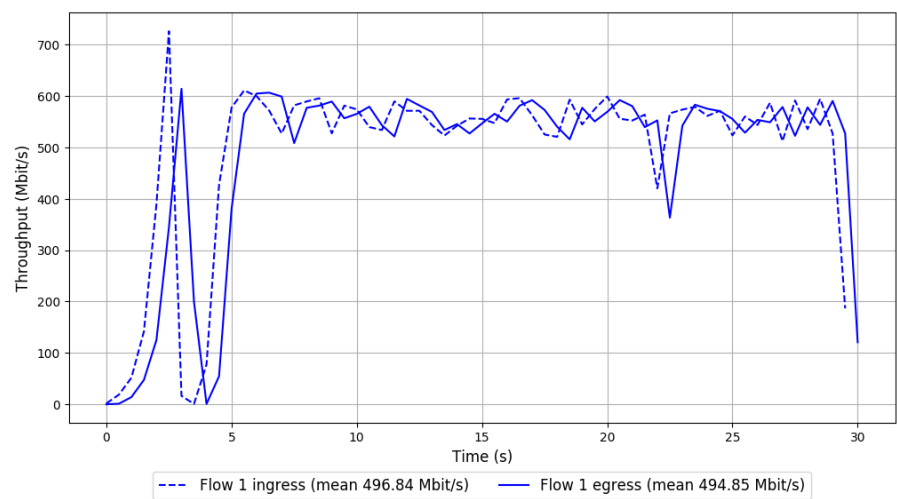


Run 4: Statistics of Muses_DecisionTree

Start at: 2019-07-12 22:52:04
End at: 2019-07-12 22:52:34
Local clock offset: 0.243 ms
Remote clock offset: -0.395 ms

Below is generated by plot.py at 2019-07-13 01:03:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 494.85 Mbit/s
95th percentile per-packet one-way delay: 78.290 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 494.85 Mbit/s
95th percentile per-packet one-way delay: 78.290 ms
Loss rate: 0.80%

Run 4: Report of Muses_DecisionTree — Data Link

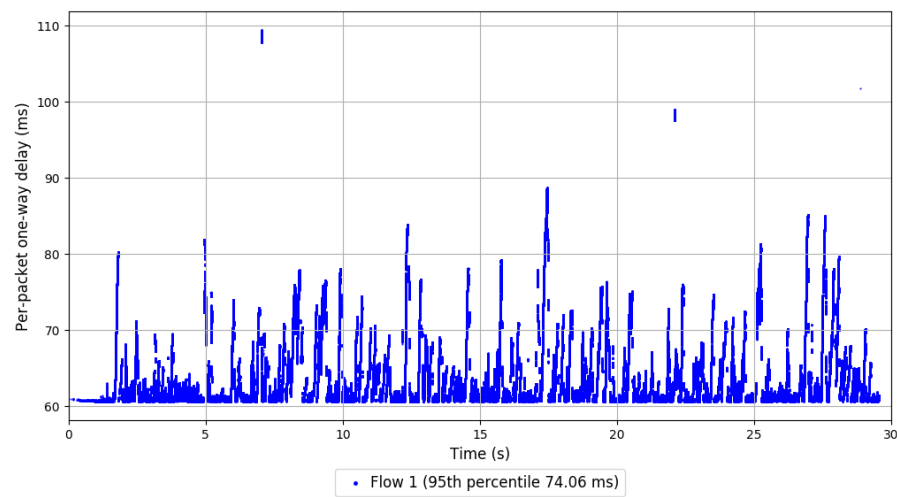
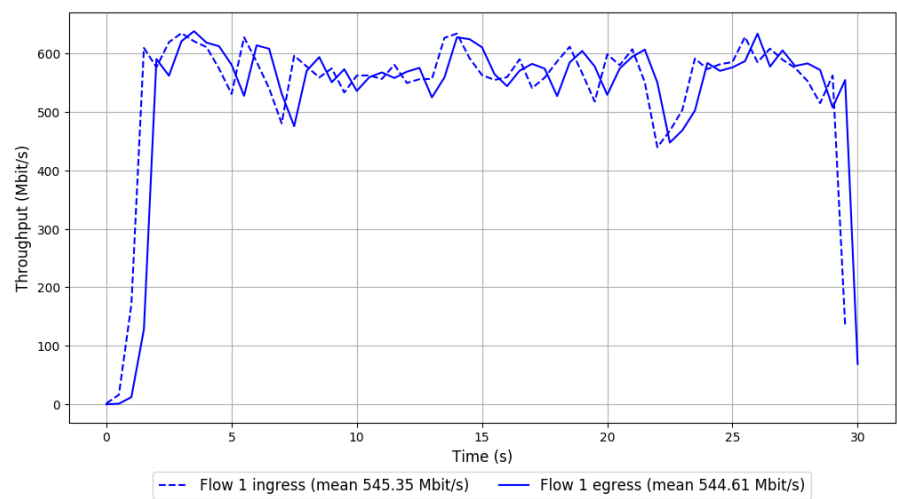


Run 5: Statistics of Muses_DecisionTree

Start at: 2019-07-12 23:27:19
End at: 2019-07-12 23:27:49
Local clock offset: 0.131 ms
Remote clock offset: -0.108 ms

Below is generated by plot.py at 2019-07-13 01:07:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 544.61 Mbit/s
95th percentile per-packet one-way delay: 74.056 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 544.61 Mbit/s
95th percentile per-packet one-way delay: 74.056 ms
Loss rate: 0.53%

Run 5: Report of Muses_DecisionTree — Data Link

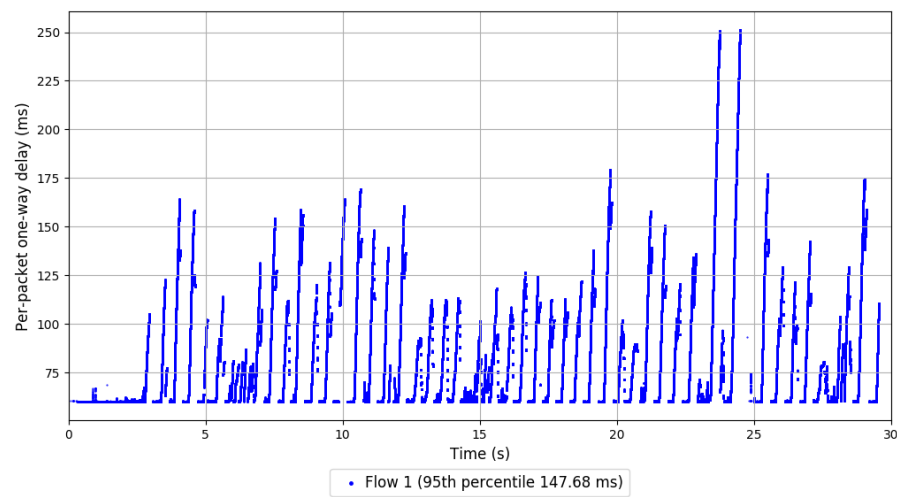
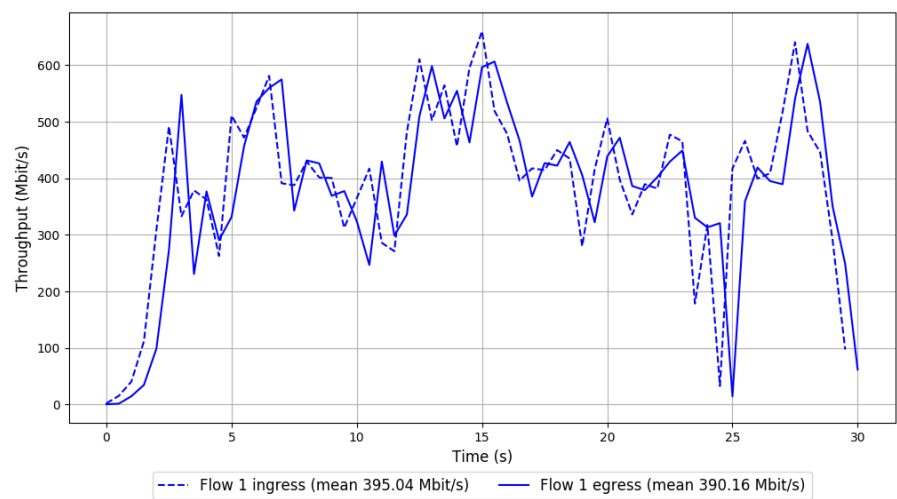



```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-12 20:45:31
End at: 2019-07-12 20:46:01
Local clock offset: -0.129 ms
Remote clock offset: -0.274 ms

# Below is generated by plot.py at 2019-07-13 01:07:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 390.16 Mbit/s
95th percentile per-packet one-way delay: 147.684 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 390.16 Mbit/s
95th percentile per-packet one-way delay: 147.684 ms
Loss rate: 1.53%
```

Run 1: Report of Muses_DecisionTreeH0 — Data Link

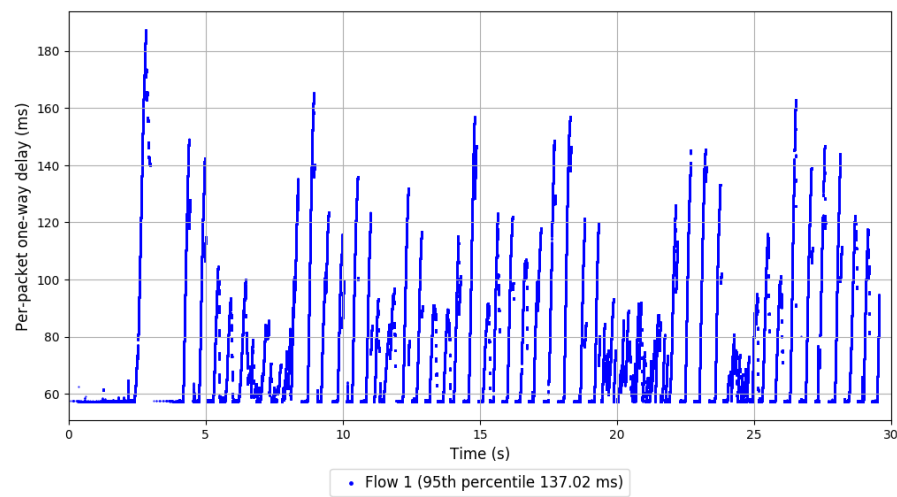
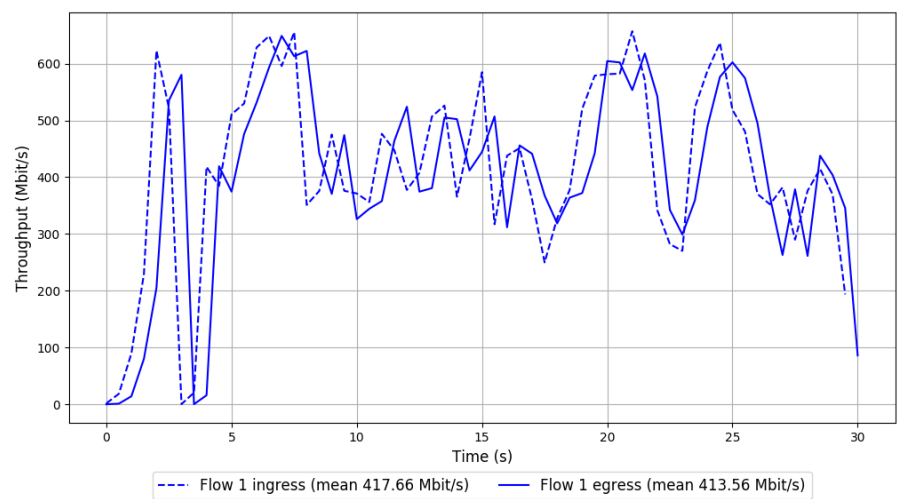


Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-12 21:20:15
End at: 2019-07-12 21:20:45
Local clock offset: -0.143 ms
Remote clock offset: -0.456 ms

Below is generated by plot.py at 2019-07-13 01:07:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 413.56 Mbit/s
95th percentile per-packet one-way delay: 137.018 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 413.56 Mbit/s
95th percentile per-packet one-way delay: 137.018 ms
Loss rate: 1.33%

Run 2: Report of Muses_DecisionTreeH0 — Data Link

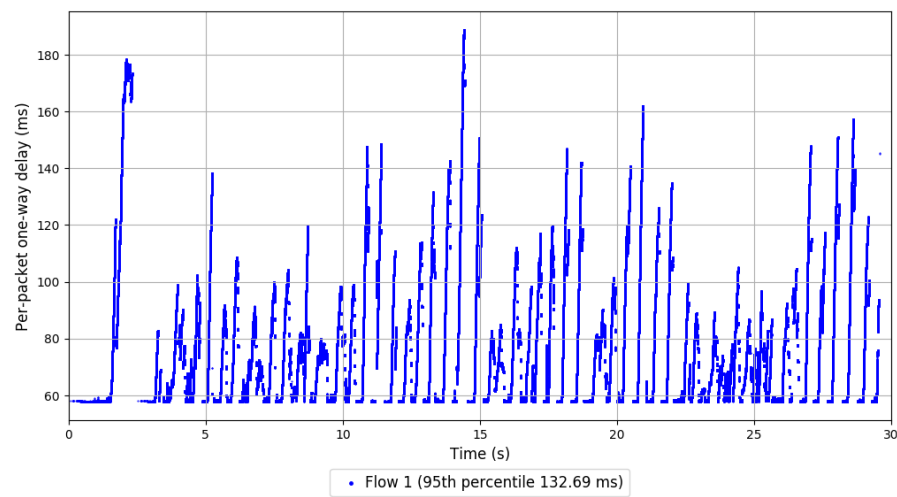
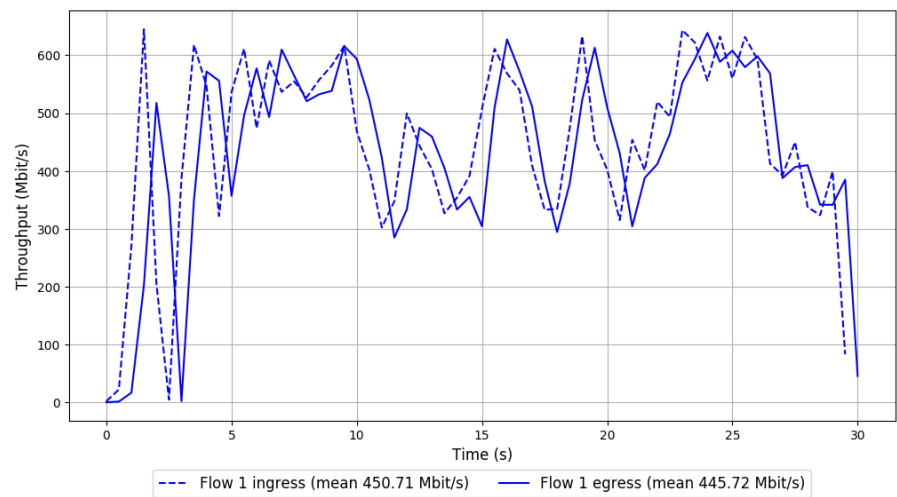


Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-12 21:55:15
End at: 2019-07-12 21:55:45
Local clock offset: 0.205 ms
Remote clock offset: -0.929 ms

Below is generated by plot.py at 2019-07-13 01:07:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 445.72 Mbit/s
95th percentile per-packet one-way delay: 132.693 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 445.72 Mbit/s
95th percentile per-packet one-way delay: 132.693 ms
Loss rate: 1.12%

Run 3: Report of Muses_DecisionTreeH0 — Data Link

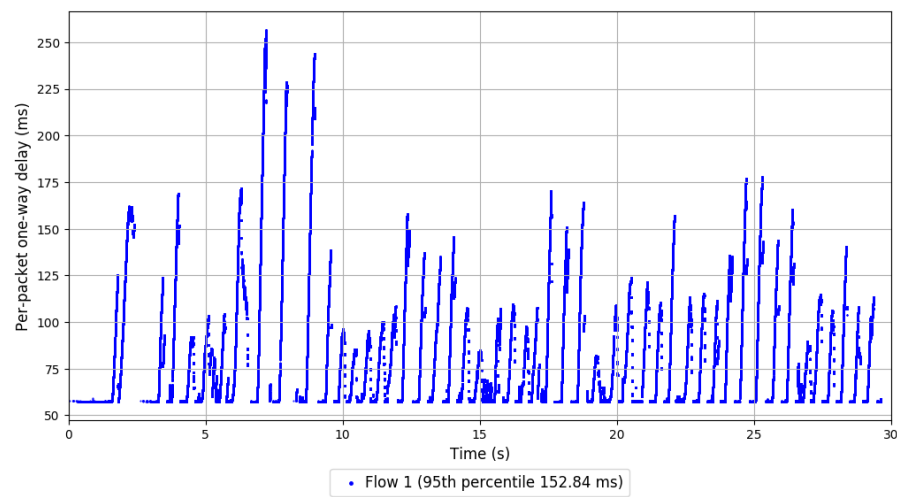
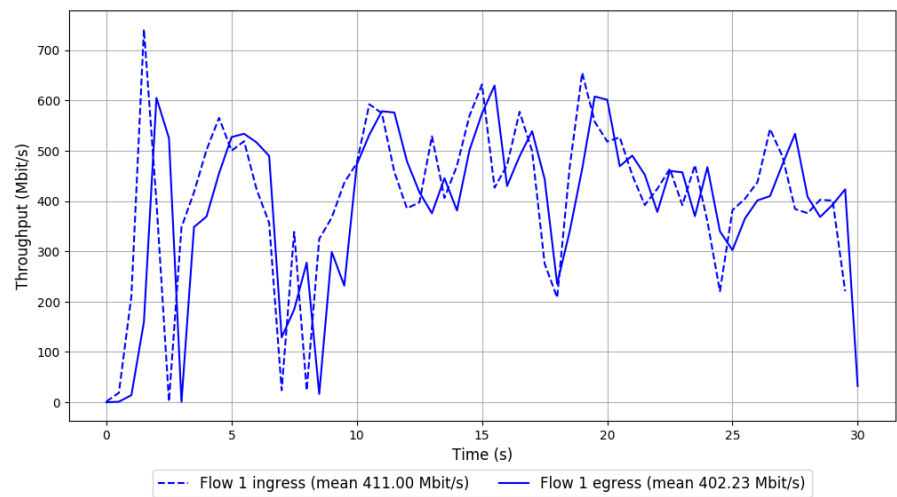


Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-12 22:30:20
End at: 2019-07-12 22:30:51
Local clock offset: -0.047 ms
Remote clock offset: -0.752 ms

Below is generated by plot.py at 2019-07-13 01:08:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 402.23 Mbit/s
95th percentile per-packet one-way delay: 152.835 ms
Loss rate: 2.51%
-- Flow 1:
Average throughput: 402.23 Mbit/s
95th percentile per-packet one-way delay: 152.835 ms
Loss rate: 2.51%

Run 4: Report of Muses_DecisionTreeH0 — Data Link

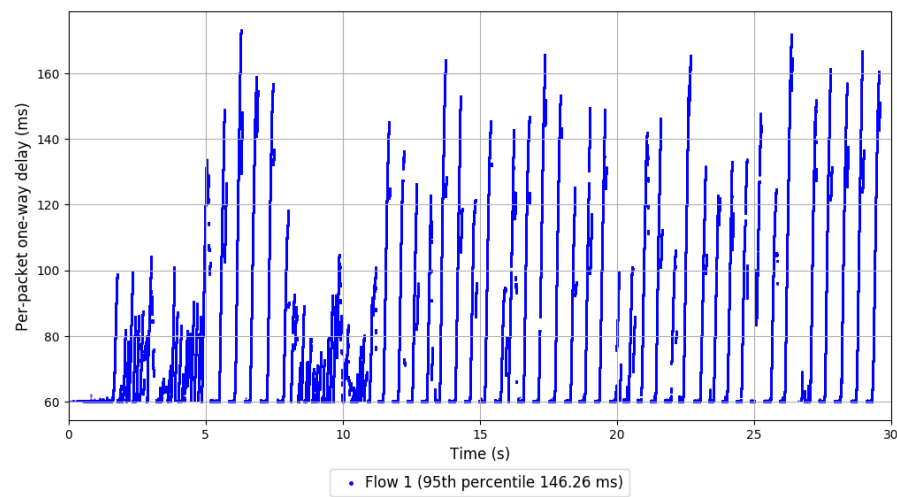
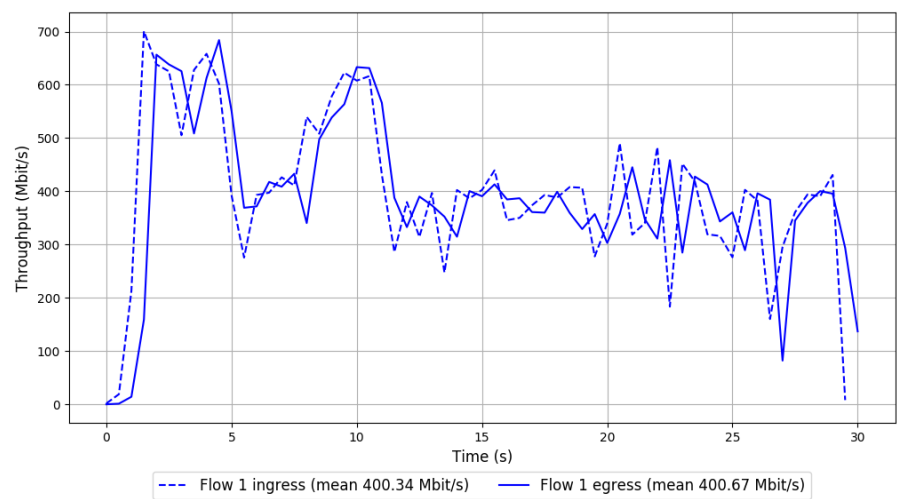


Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-12 23:05:16
End at: 2019-07-12 23:05:46
Local clock offset: -0.508 ms
Remote clock offset: -0.415 ms

Below is generated by plot.py at 2019-07-13 01:08:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 400.67 Mbit/s
95th percentile per-packet one-way delay: 146.264 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 400.67 Mbit/s
95th percentile per-packet one-way delay: 146.264 ms
Loss rate: 0.35%

Run 5: Report of Muses_DecisionTreeH0 — Data Link

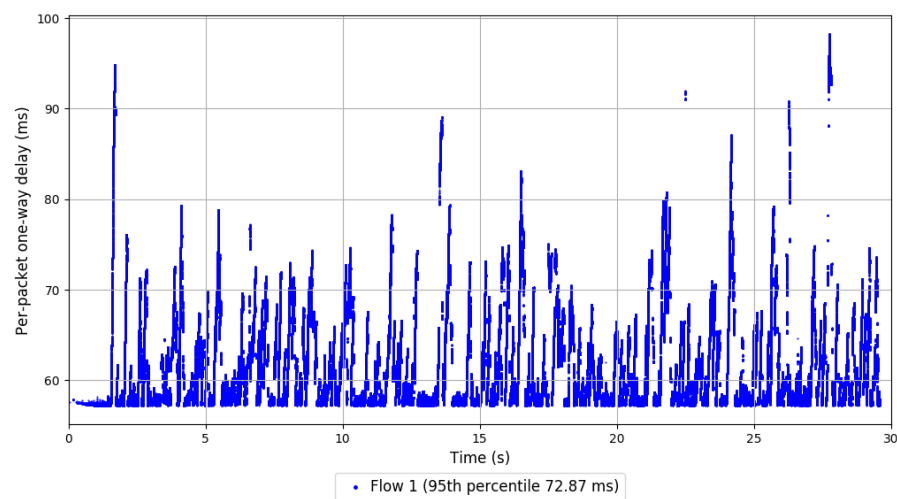
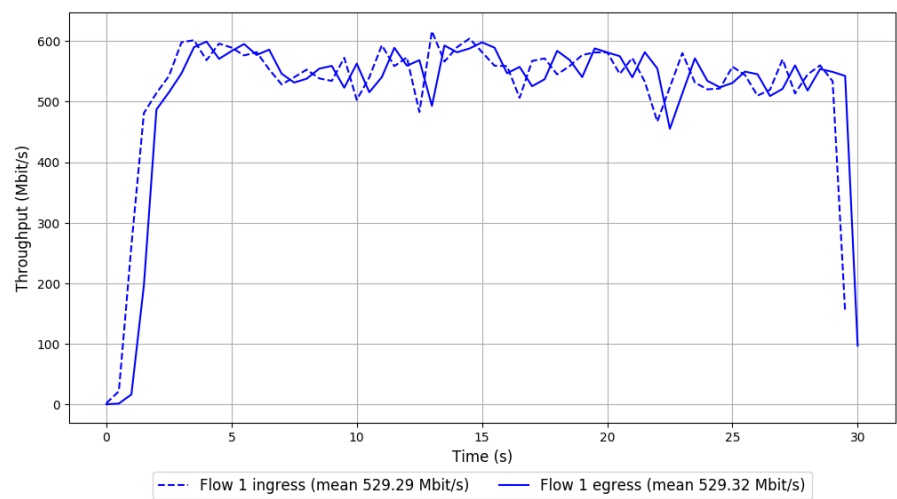


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-12 21:01:19
End at: 2019-07-12 21:01:49
Local clock offset: -0.567 ms
Remote clock offset: -0.907 ms

# Below is generated by plot.py at 2019-07-13 01:11:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 529.32 Mbit/s
95th percentile per-packet one-way delay: 72.869 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 529.32 Mbit/s
95th percentile per-packet one-way delay: 72.869 ms
Loss rate: 0.38%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link

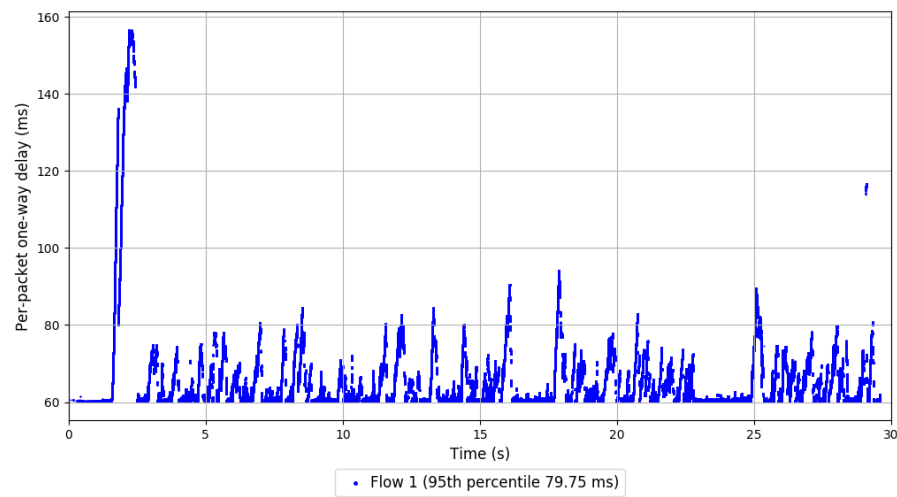
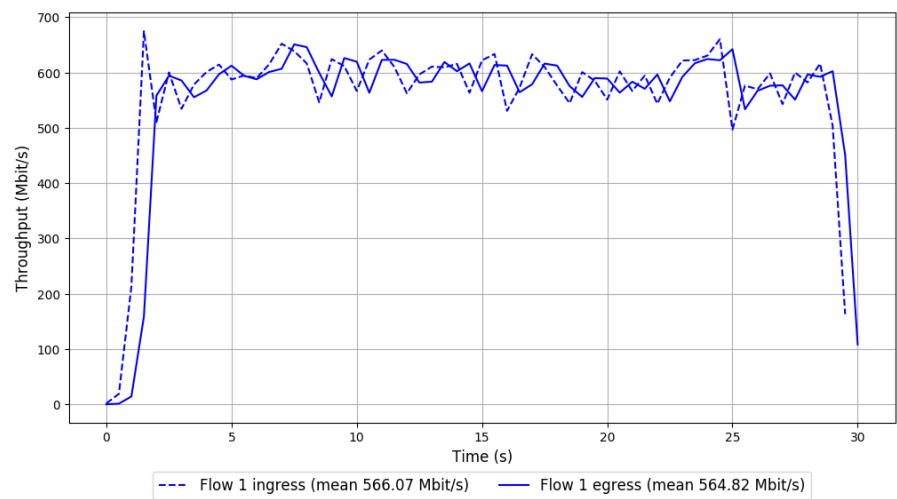


Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-12 21:36:27
End at: 2019-07-12 21:36:57
Local clock offset: -0.298 ms
Remote clock offset: -0.388 ms

Below is generated by plot.py at 2019-07-13 01:14:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 564.82 Mbit/s
95th percentile per-packet one-way delay: 79.753 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 564.82 Mbit/s
95th percentile per-packet one-way delay: 79.753 ms
Loss rate: 0.64%

Run 2: Report of Muses_DecisionTreeR0 — Data Link

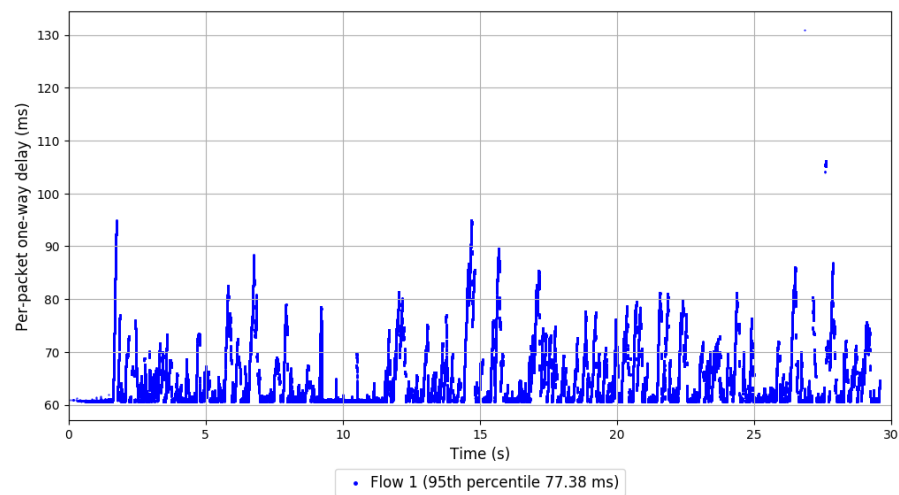
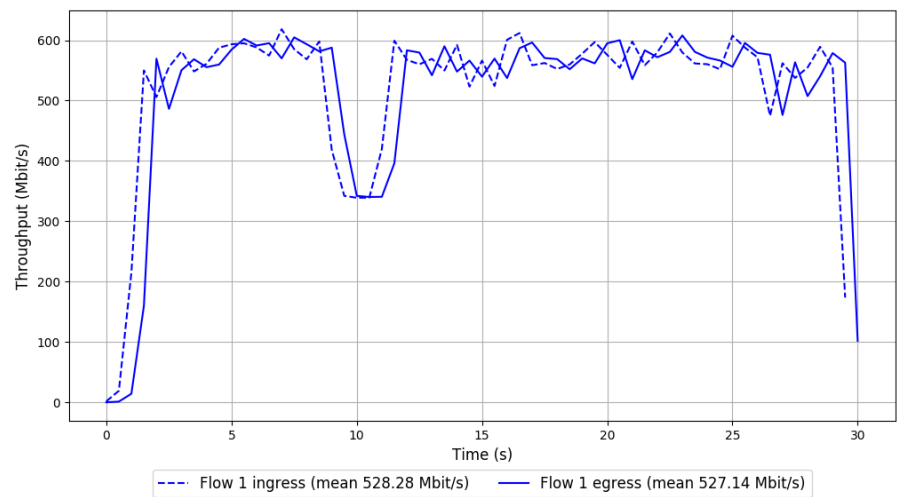


Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-12 22:11:28
End at: 2019-07-12 22:11:58
Local clock offset: 0.384 ms
Remote clock offset: -0.399 ms

Below is generated by plot.py at 2019-07-13 01:15:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 527.14 Mbit/s
95th percentile per-packet one-way delay: 77.383 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 527.14 Mbit/s
95th percentile per-packet one-way delay: 77.383 ms
Loss rate: 0.61%

Run 3: Report of Muses_DecisionTreeR0 — Data Link

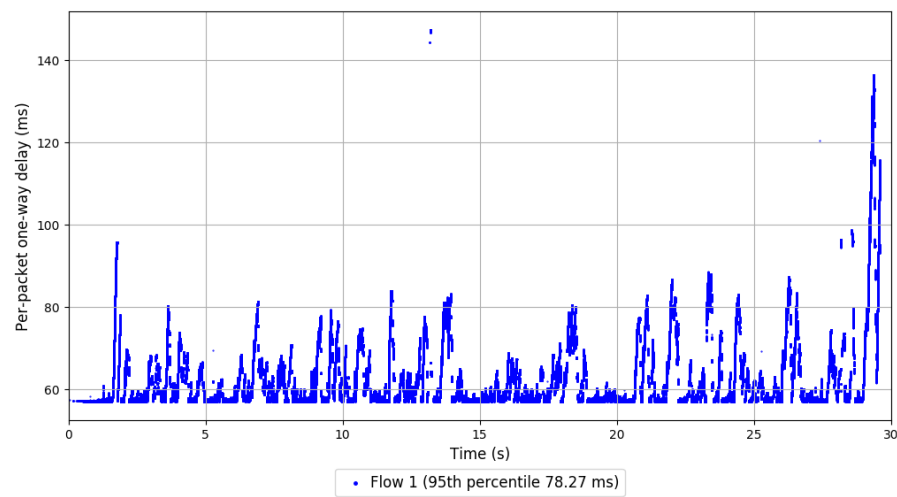
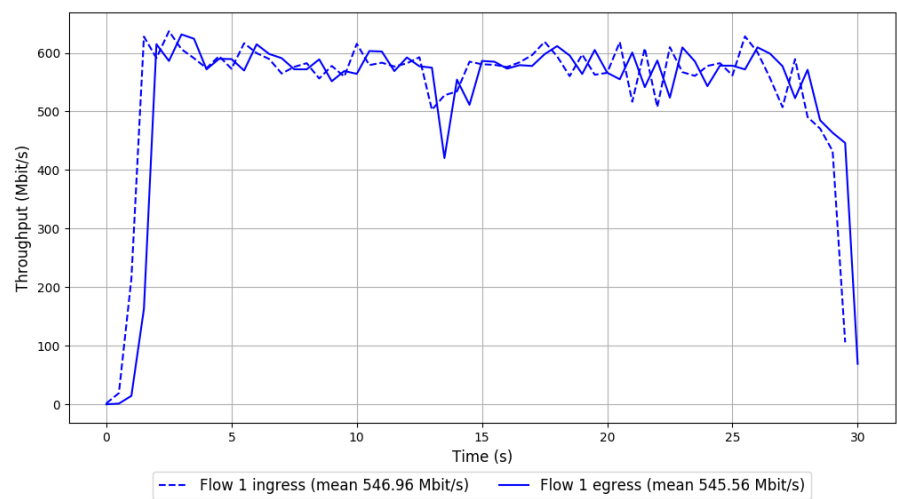


Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-12 22:46:13
End at: 2019-07-12 22:46:43
Local clock offset: -0.266 ms
Remote clock offset: -0.511 ms

Below is generated by plot.py at 2019-07-13 01:16:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 545.56 Mbit/s
95th percentile per-packet one-way delay: 78.270 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 545.56 Mbit/s
95th percentile per-packet one-way delay: 78.270 ms
Loss rate: 0.61%

Run 4: Report of Muses_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-12 23:21:27

End at: 2019-07-12 23:21:57

Local clock offset: -0.072 ms

Remote clock offset: -0.16 ms

Below is generated by plot.py at 2019-07-13 01:17:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 547.32 Mbit/s

95th percentile per-packet one-way delay: 77.485 ms

Loss rate: 0.77%

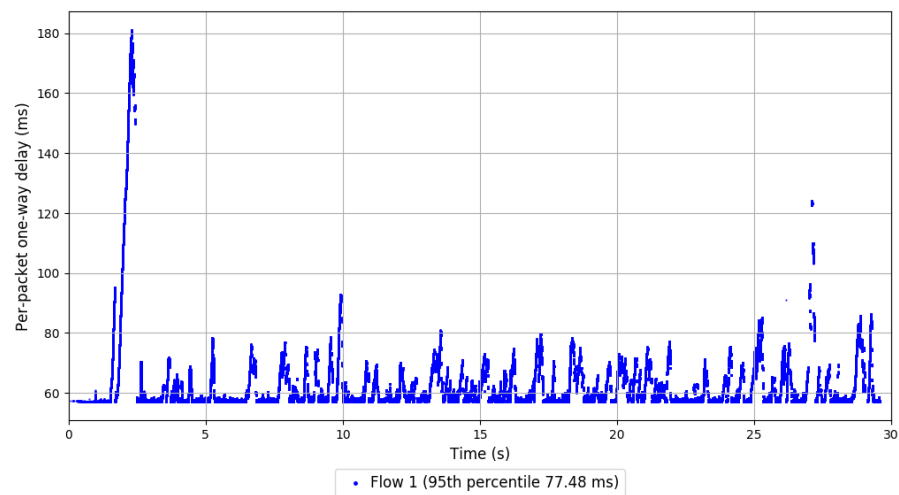
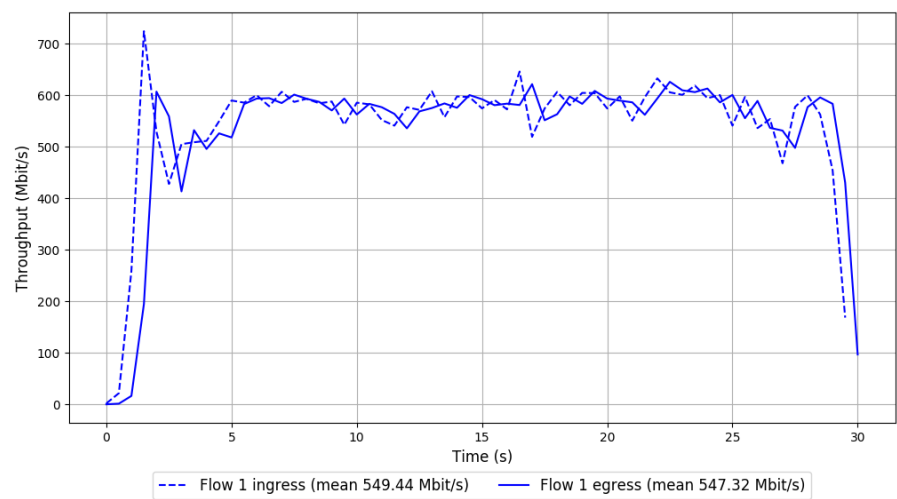
-- Flow 1:

Average throughput: 547.32 Mbit/s

95th percentile per-packet one-way delay: 77.485 ms

Loss rate: 0.77%

Run 5: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-07-12 20:55:30

End at: 2019-07-12 20:56:00

Local clock offset: -0.296 ms

Remote clock offset: -0.272 ms

Below is generated by plot.py at 2019-07-13 01:21:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 360.86 Mbit/s

95th percentile per-packet one-way delay: 88.047 ms

Loss rate: 1.06%

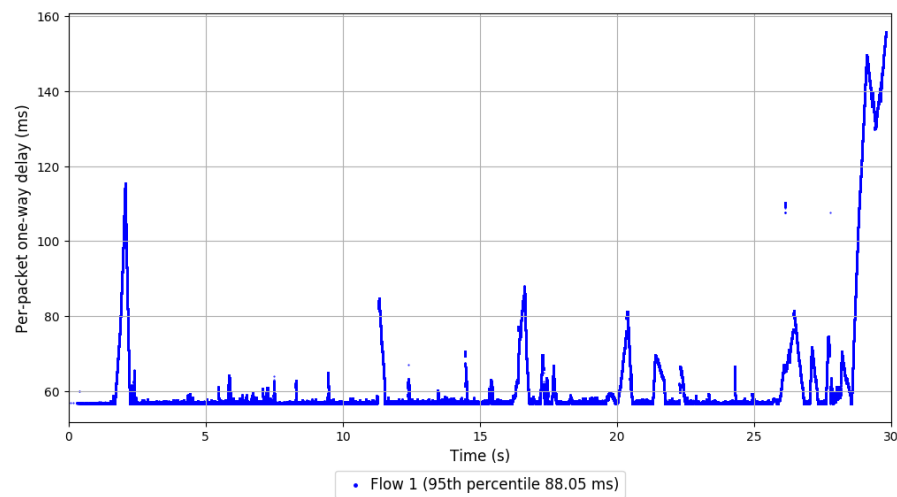
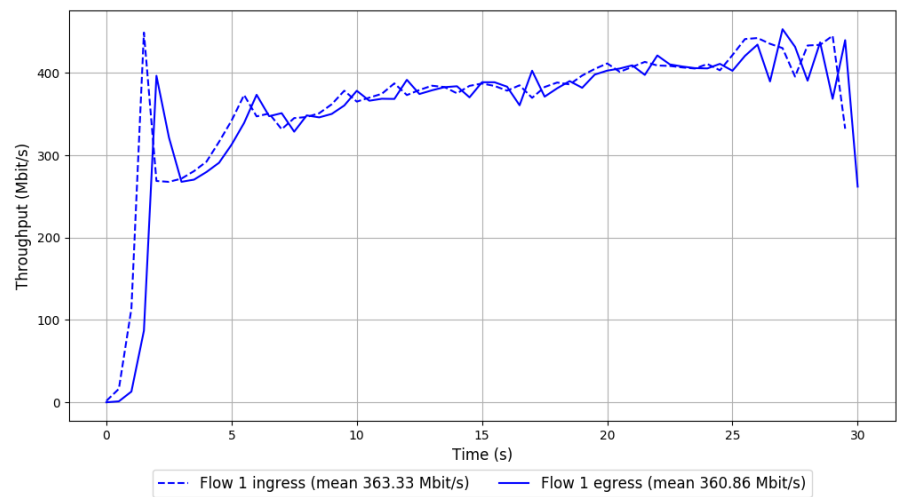
-- Flow 1:

Average throughput: 360.86 Mbit/s

95th percentile per-packet one-way delay: 88.047 ms

Loss rate: 1.06%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-07-12 21:30:35

End at: 2019-07-12 21:31:05

Local clock offset: 0.061 ms

Remote clock offset: -0.428 ms

Below is generated by plot.py at 2019-07-13 01:21:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 353.39 Mbit/s

95th percentile per-packet one-way delay: 155.346 ms

Loss rate: 0.90%

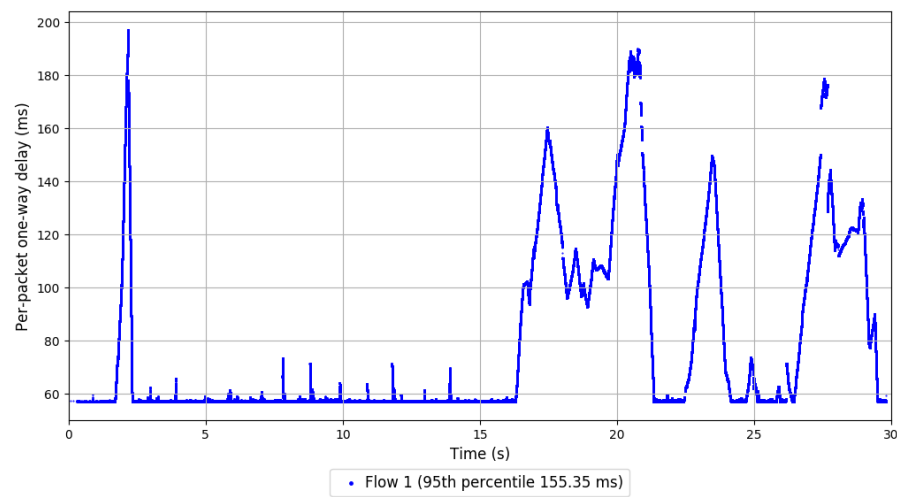
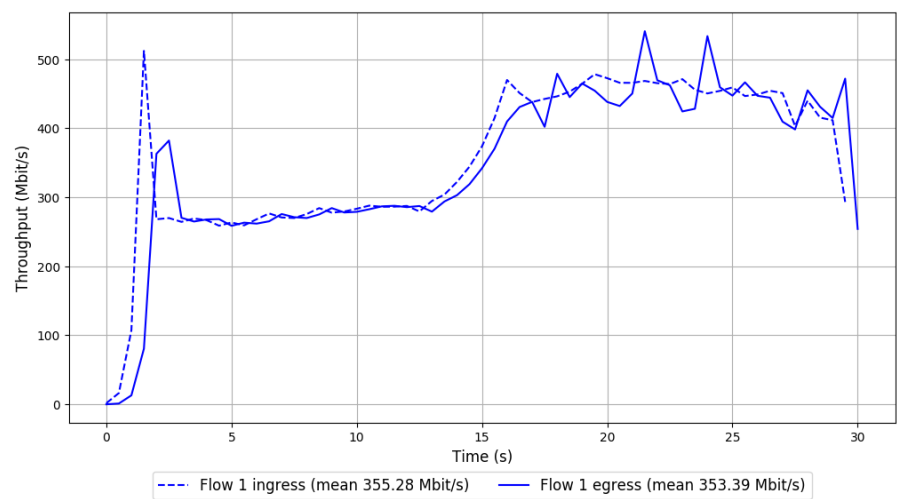
-- Flow 1:

Average throughput: 353.39 Mbit/s

95th percentile per-packet one-way delay: 155.346 ms

Loss rate: 0.90%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-07-12 22:05:35

End at: 2019-07-12 22:06:05

Local clock offset: -0.058 ms

Remote clock offset: -0.704 ms

Below is generated by plot.py at 2019-07-13 01:23:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 406.74 Mbit/s

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

Loss rate: 2.78%

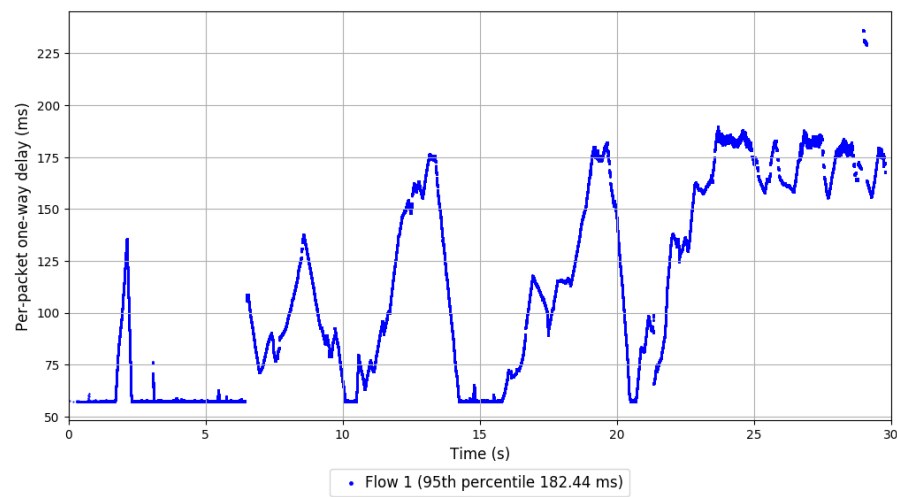
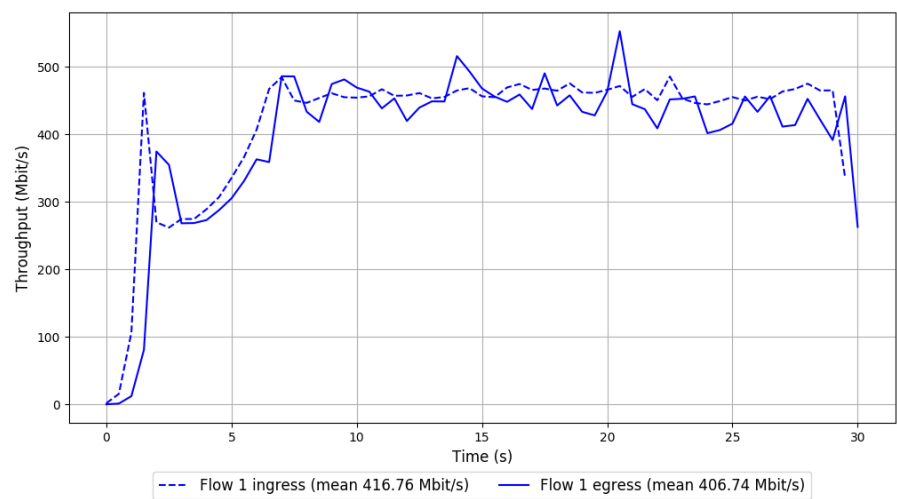
-- Flow 1:

Average throughput: 406.74 Mbit/s

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

Loss rate: 2.78%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-07-12 22:40:28

End at: 2019-07-12 22:40:58

Local clock offset: 0.181 ms

Remote clock offset: -0.526 ms

Below is generated by plot.py at 2019-07-13 01:24:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 340.70 Mbit/s

95th percentile per-packet one-way delay: 110.069 ms

Loss rate: 1.16%

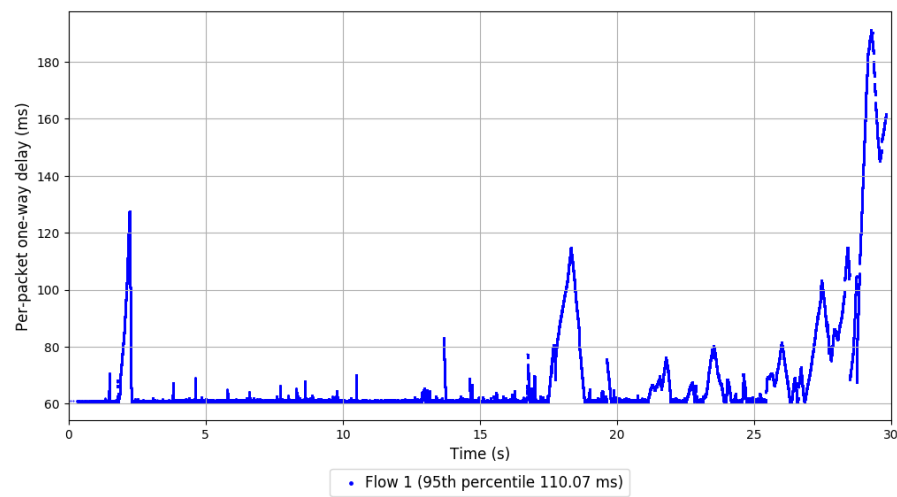
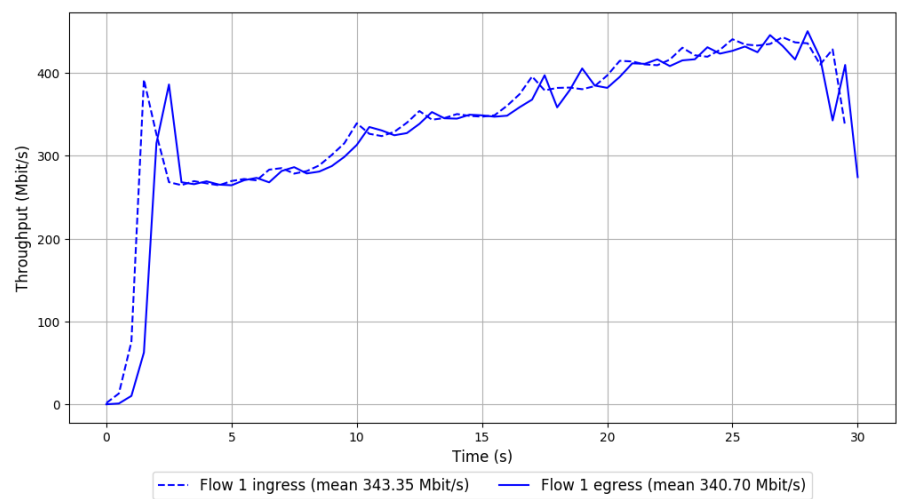
-- Flow 1:

Average throughput: 340.70 Mbit/s

95th percentile per-packet one-way delay: 110.069 ms

Loss rate: 1.16%

Run 4: Report of PCC-Allegro — Data Link

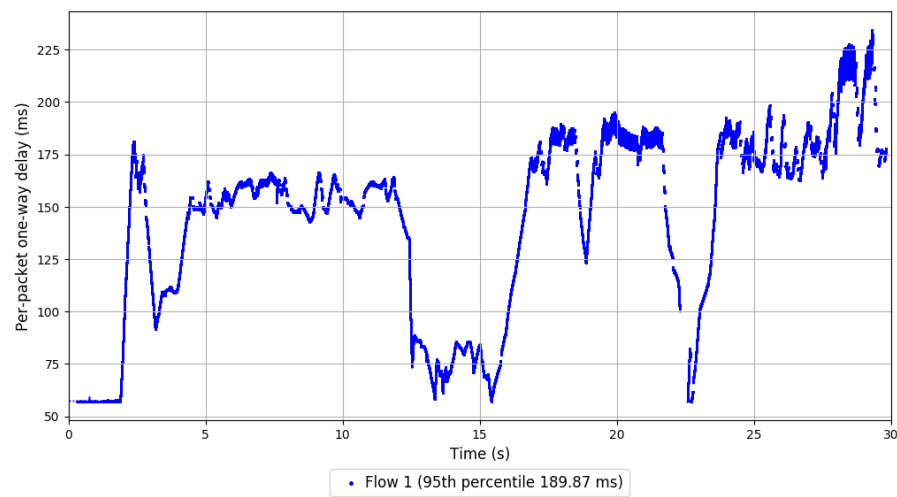
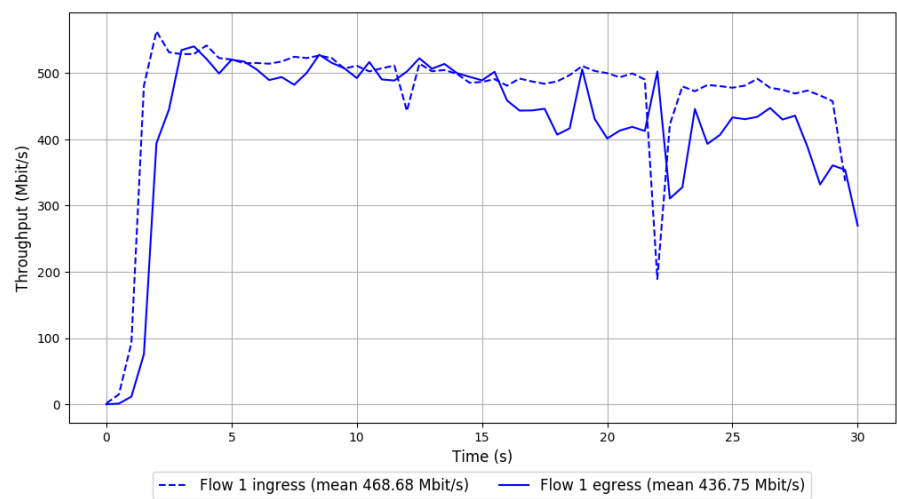


Run 5: Statistics of PCC-Allegro

Start at: 2019-07-12 23:15:32
End at: 2019-07-12 23:16:02
Local clock offset: -0.223 ms
Remote clock offset: -0.538 ms

Below is generated by plot.py at 2019-07-13 01:31:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 436.75 Mbit/s
95th percentile per-packet one-way delay: 189.870 ms
Loss rate: 7.17%
-- Flow 1:
Average throughput: 436.75 Mbit/s
95th percentile per-packet one-way delay: 189.870 ms
Loss rate: 7.17%

Run 5: Report of PCC-Allegro — Data Link

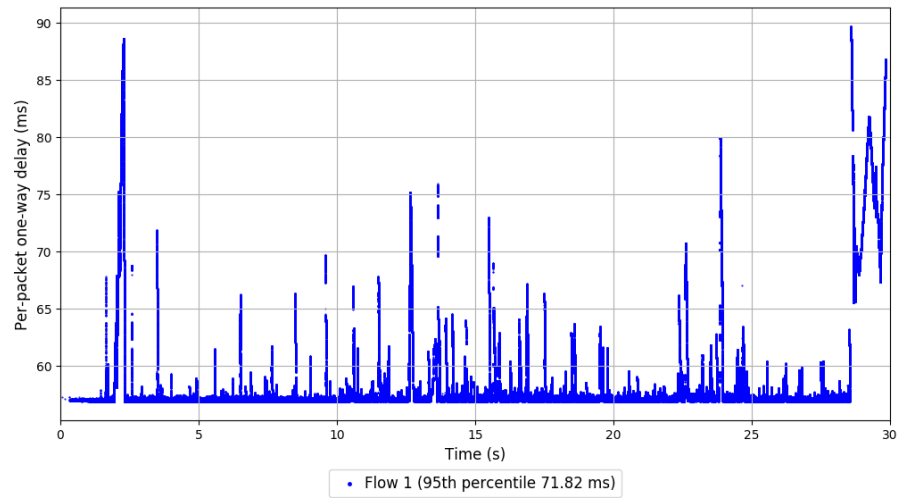
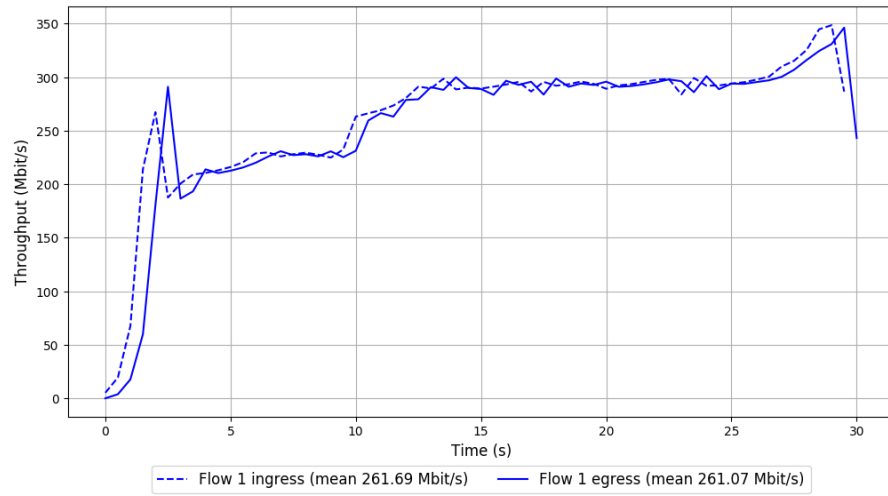


Run 1: Statistics of PCC-Expr

Start at: 2019-07-12 20:48:33
End at: 2019-07-12 20:49:03
Local clock offset: -0.105 ms
Remote clock offset: -0.308 ms

Below is generated by plot.py at 2019-07-13 01:31:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 261.07 Mbit/s
95th percentile per-packet one-way delay: 71.819 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 261.07 Mbit/s
95th percentile per-packet one-way delay: 71.819 ms
Loss rate: 0.62%

Run 1: Report of PCC-Expr — Data Link

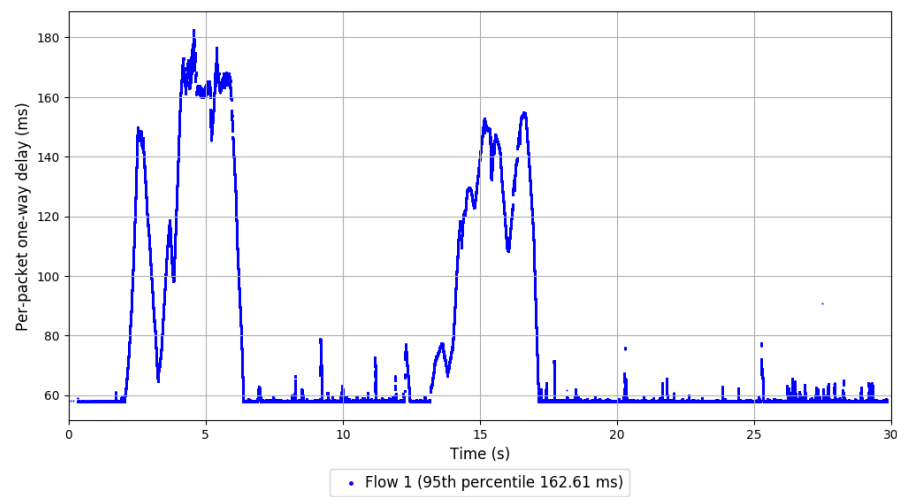
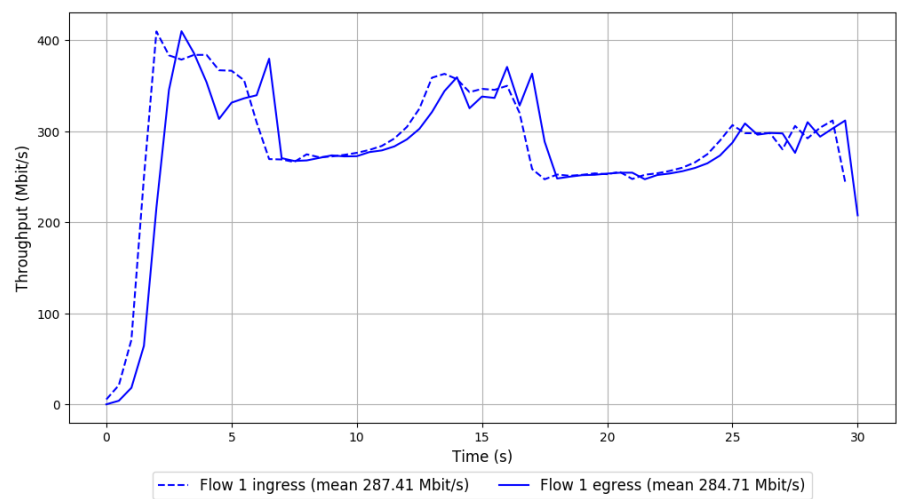


Run 2: Statistics of PCC-Expr

Start at: 2019-07-12 21:23:17
End at: 2019-07-12 21:23:47
Local clock offset: 0.174 ms
Remote clock offset: -1.003 ms

Below is generated by plot.py at 2019-07-13 01:31:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 284.71 Mbit/s
95th percentile per-packet one-way delay: 162.611 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 284.71 Mbit/s
95th percentile per-packet one-way delay: 162.611 ms
Loss rate: 1.32%

Run 2: Report of PCC-Expr — Data Link

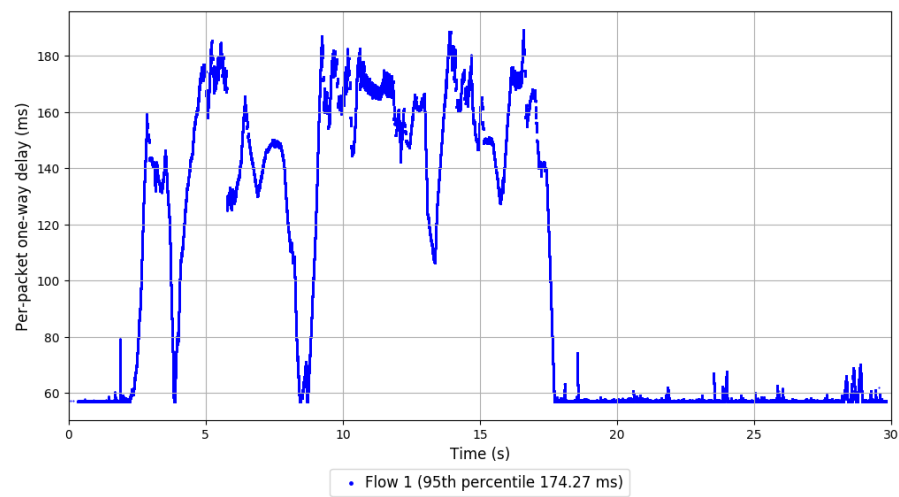
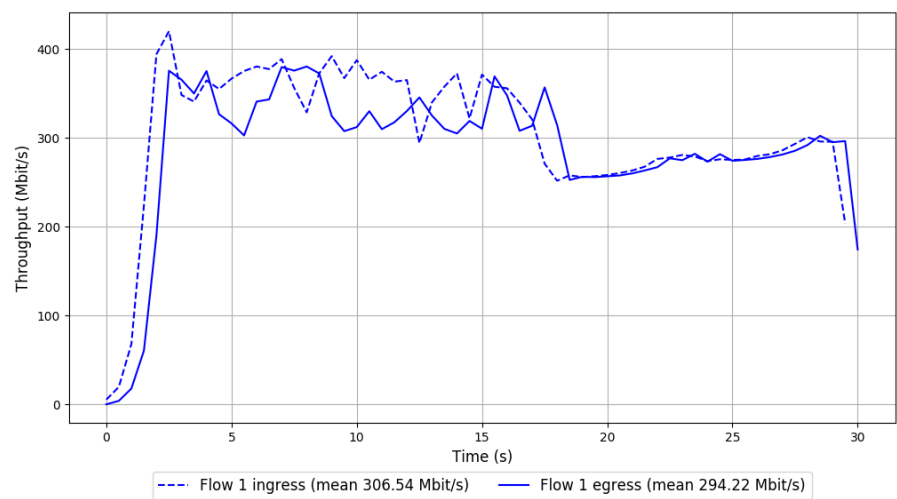


Run 3: Statistics of PCC-Expr

Start at: 2019-07-12 21:58:21
End at: 2019-07-12 21:58:51
Local clock offset: -0.027 ms
Remote clock offset: -0.384 ms

Below is generated by plot.py at 2019-07-13 01:31:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 294.22 Mbit/s
95th percentile per-packet one-way delay: 174.270 ms
Loss rate: 4.39%
-- Flow 1:
Average throughput: 294.22 Mbit/s
95th percentile per-packet one-way delay: 174.270 ms
Loss rate: 4.39%

Run 3: Report of PCC-Expr — Data Link

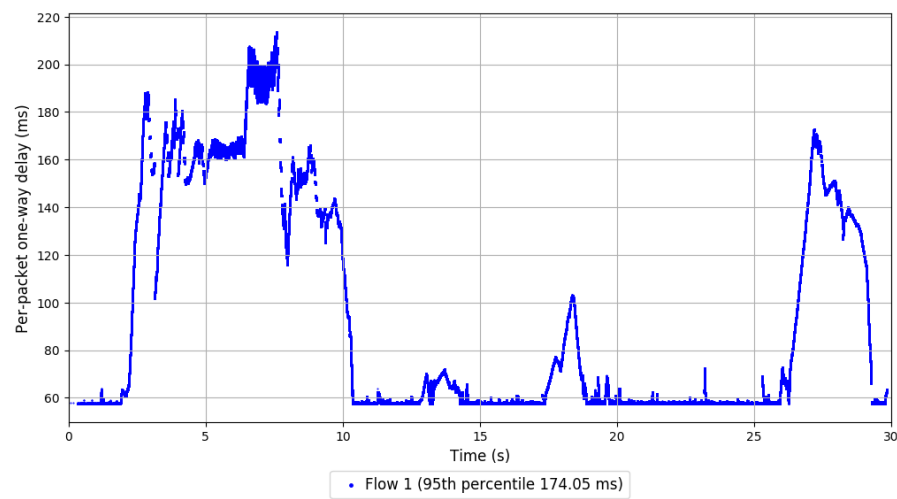
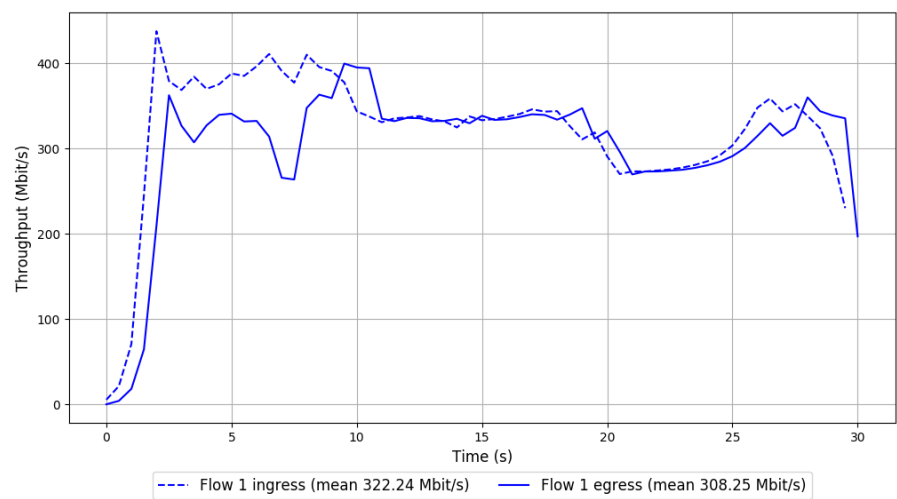


Run 4: Statistics of PCC-Expr

Start at: 2019-07-12 22:33:23
End at: 2019-07-12 22:33:53
Local clock offset: -0.084 ms
Remote clock offset: -0.709 ms

Below is generated by plot.py at 2019-07-13 01:31:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 308.25 Mbit/s
95th percentile per-packet one-way delay: 174.047 ms
Loss rate: 4.71%
-- Flow 1:
Average throughput: 308.25 Mbit/s
95th percentile per-packet one-way delay: 174.047 ms
Loss rate: 4.71%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-07-12 23:08:18

End at: 2019-07-12 23:08:49

Local clock offset: 0.135 ms

Remote clock offset: -0.366 ms

Below is generated by plot.py at 2019-07-13 01:31:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 270.81 Mbit/s

95th percentile per-packet one-way delay: 161.650 ms

Loss rate: 0.92%

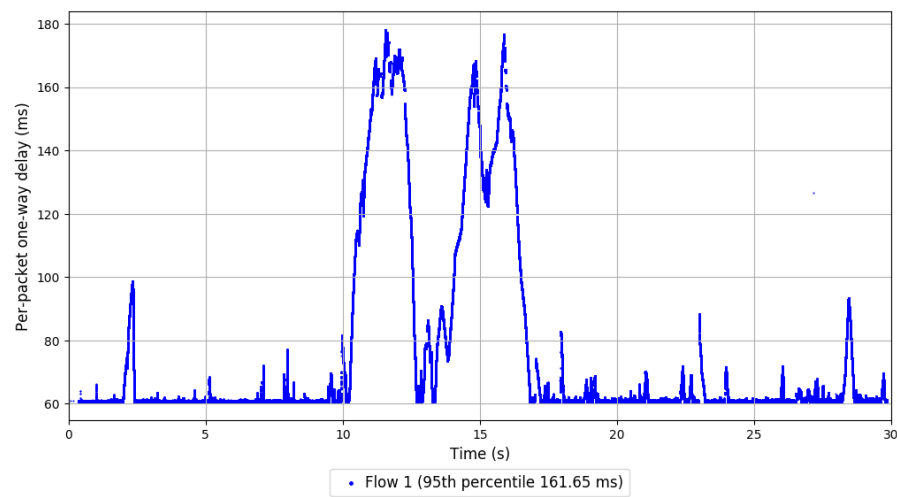
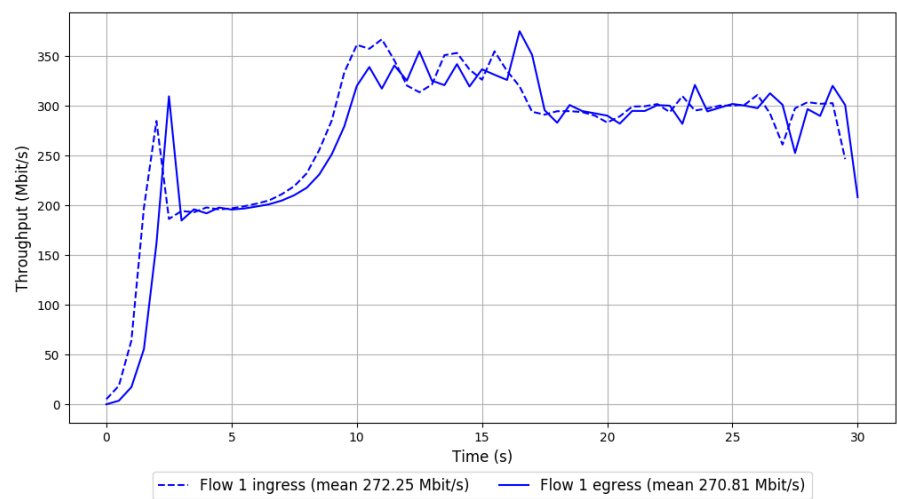
-- Flow 1:

Average throughput: 270.81 Mbit/s

95th percentile per-packet one-way delay: 161.650 ms

Loss rate: 0.92%

Run 5: Report of PCC-Expr — Data Link

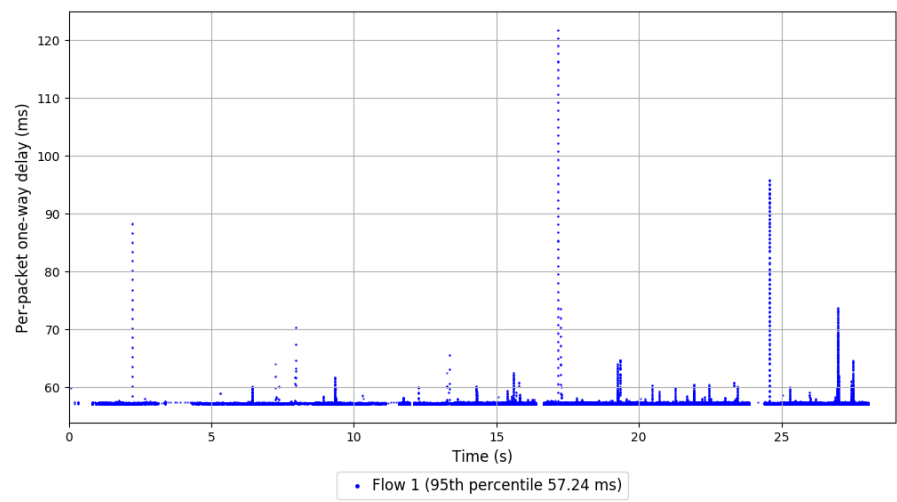
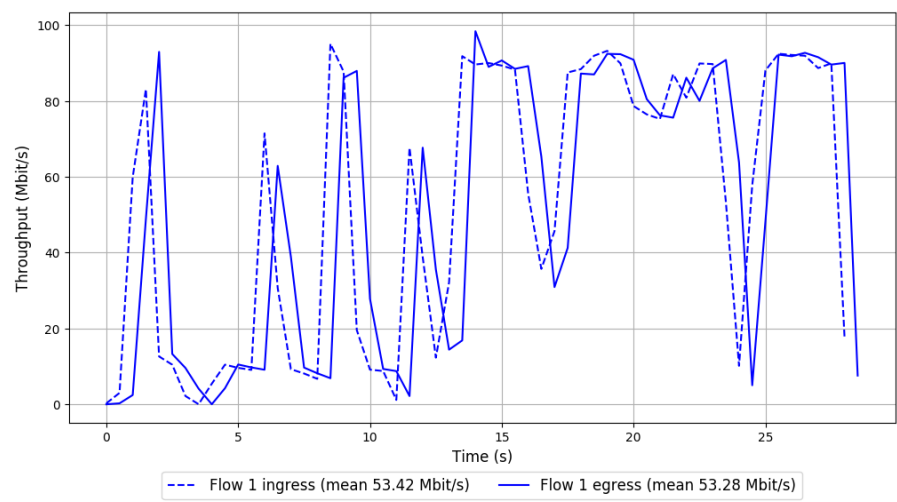


Run 1: Statistics of QUIC Cubic

Start at: 2019-07-12 20:58:37
End at: 2019-07-12 20:59:07
Local clock offset: -0.131 ms
Remote clock offset: -0.554 ms

Below is generated by plot.py at 2019-07-13 01:31:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 53.28 Mbit/s
95th percentile per-packet one-way delay: 57.244 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 53.28 Mbit/s
95th percentile per-packet one-way delay: 57.244 ms
Loss rate: 0.67%

Run 1: Report of QUIC Cubic — Data Link

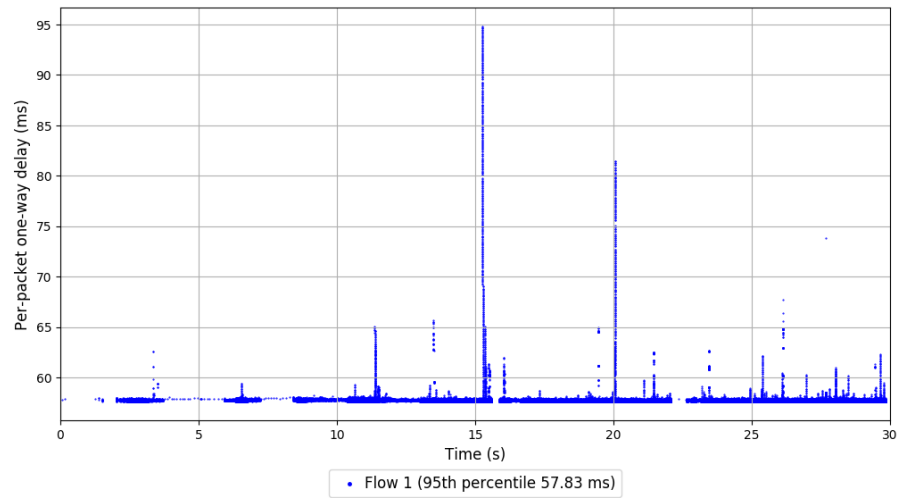
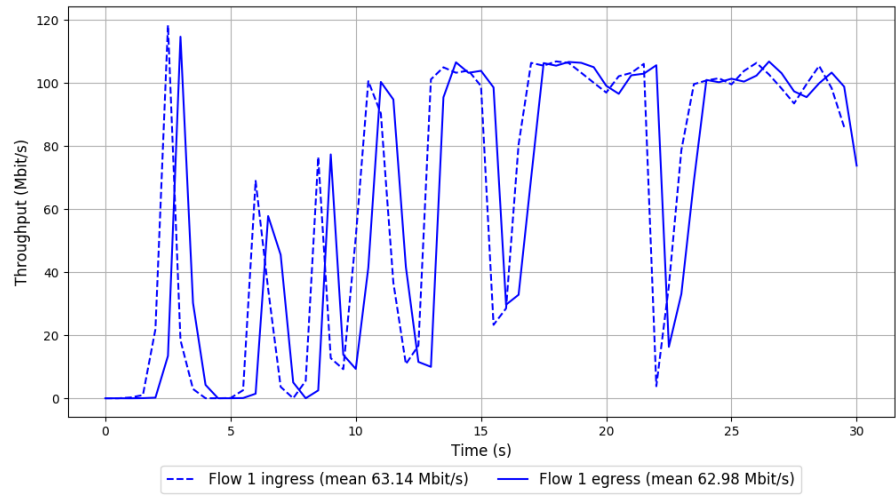


Run 2: Statistics of QUIC Cubic

Start at: 2019-07-12 21:33:41
End at: 2019-07-12 21:34:11
Local clock offset: 0.344 ms
Remote clock offset: -0.451 ms

Below is generated by plot.py at 2019-07-13 01:31:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 62.98 Mbit/s
95th percentile per-packet one-way delay: 57.830 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 62.98 Mbit/s
95th percentile per-packet one-way delay: 57.830 ms
Loss rate: 0.63%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-07-12 22:08:47

End at: 2019-07-12 22:09:17

Local clock offset: -0.279 ms

Remote clock offset: -0.462 ms

Below is generated by plot.py at 2019-07-13 01:31:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.84 Mbit/s

95th percentile per-packet one-way delay: 60.184 ms

Loss rate: 0.61%

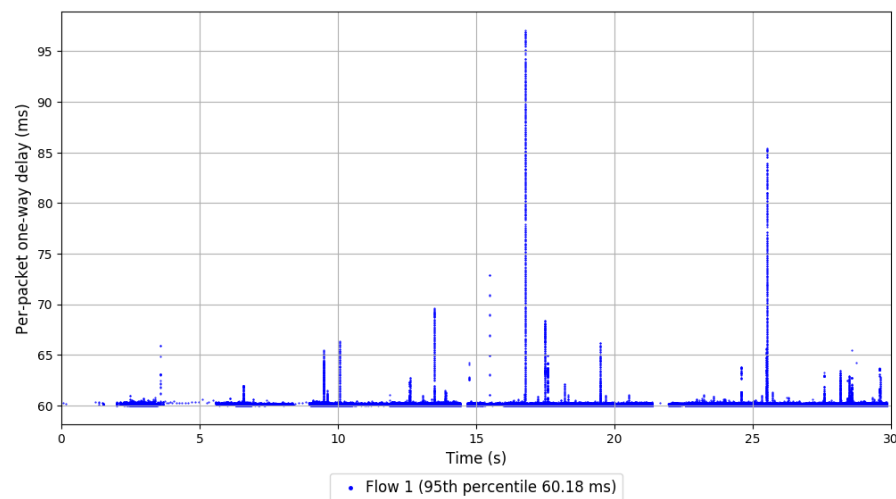
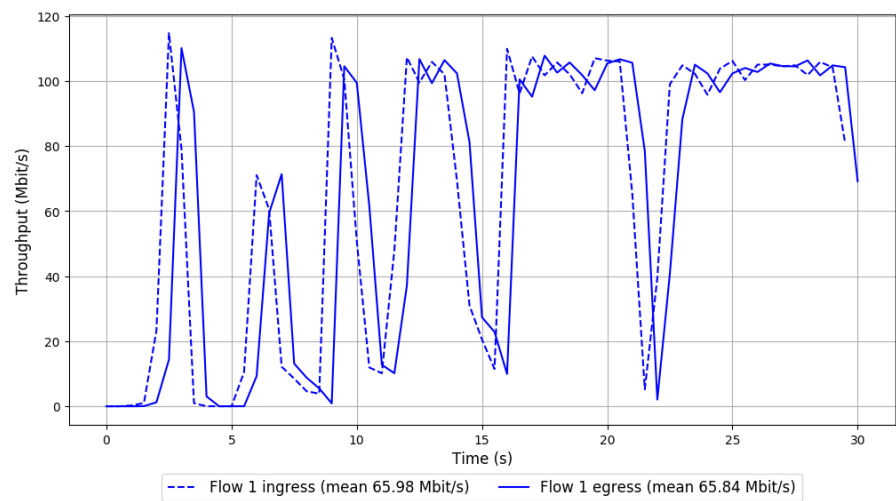
-- Flow 1:

Average throughput: 65.84 Mbit/s

95th percentile per-packet one-way delay: 60.184 ms

Loss rate: 0.61%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-07-12 22:43:32

End at: 2019-07-12 22:44:02

Local clock offset: -0.501 ms

Remote clock offset: -0.547 ms

Below is generated by plot.py at 2019-07-13 01:31:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.41 Mbit/s

95th percentile per-packet one-way delay: 60.013 ms

Loss rate: 0.80%

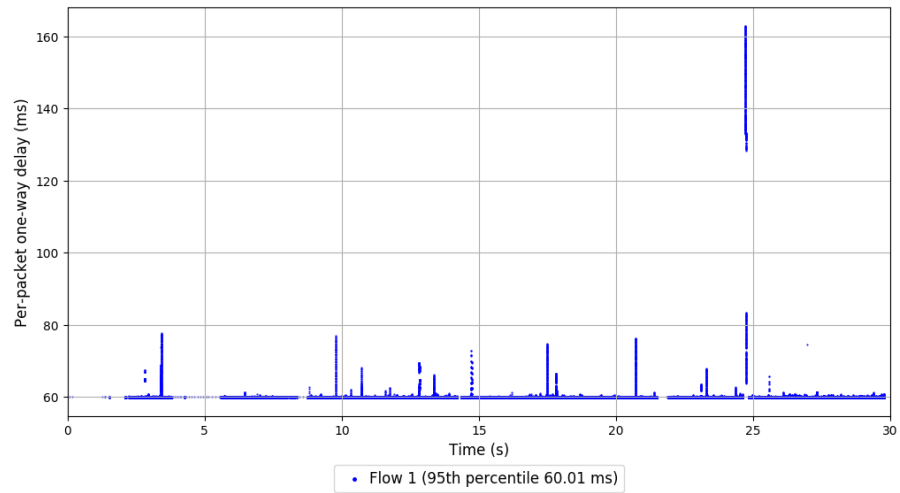
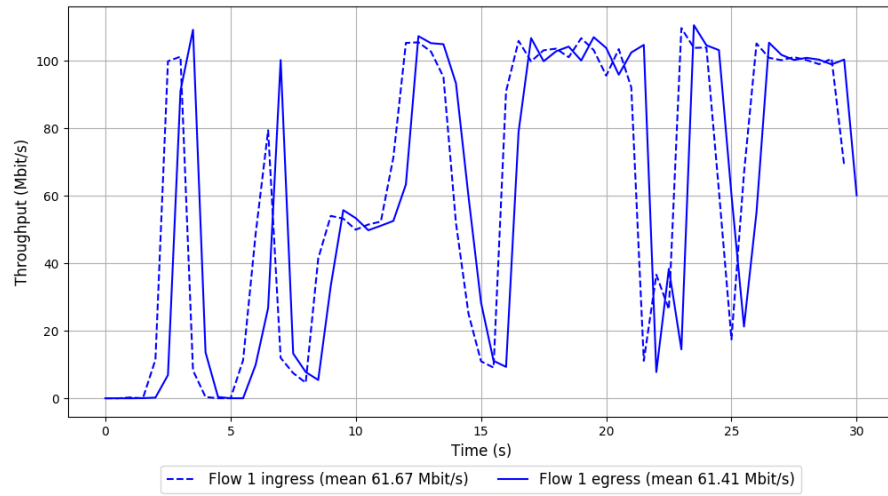
-- Flow 1:

Average throughput: 61.41 Mbit/s

95th percentile per-packet one-way delay: 60.013 ms

Loss rate: 0.80%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-07-12 23:18:43

End at: 2019-07-12 23:19:13

Local clock offset: 0.088 ms

Remote clock offset: -0.16 ms

Below is generated by plot.py at 2019-07-13 01:31:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.57 Mbit/s

95th percentile per-packet one-way delay: 57.126 ms

Loss rate: 1.04%

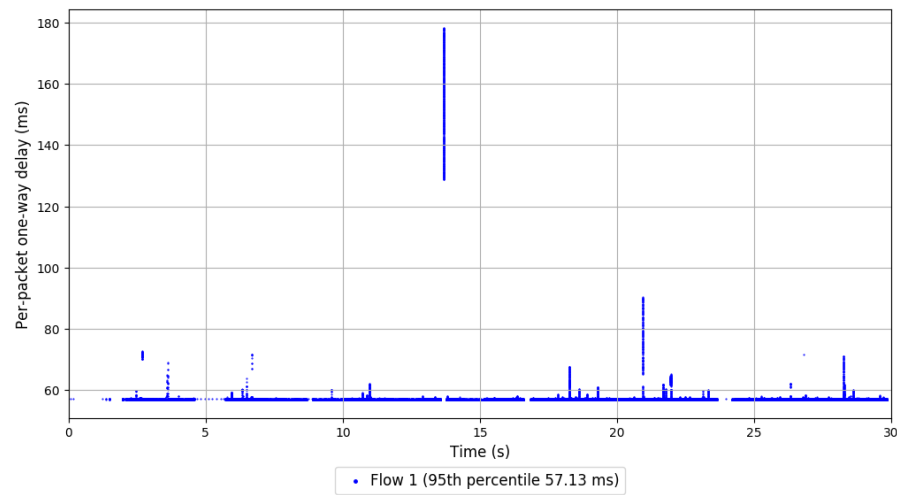
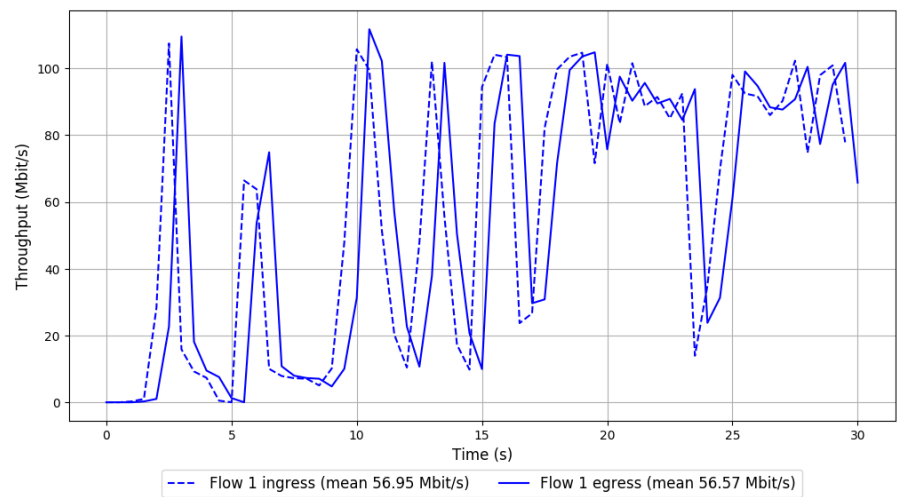
-- Flow 1:

Average throughput: 56.57 Mbit/s

95th percentile per-packet one-way delay: 57.126 ms

Loss rate: 1.04%

Run 5: Report of QUIC Cubic — Data Link

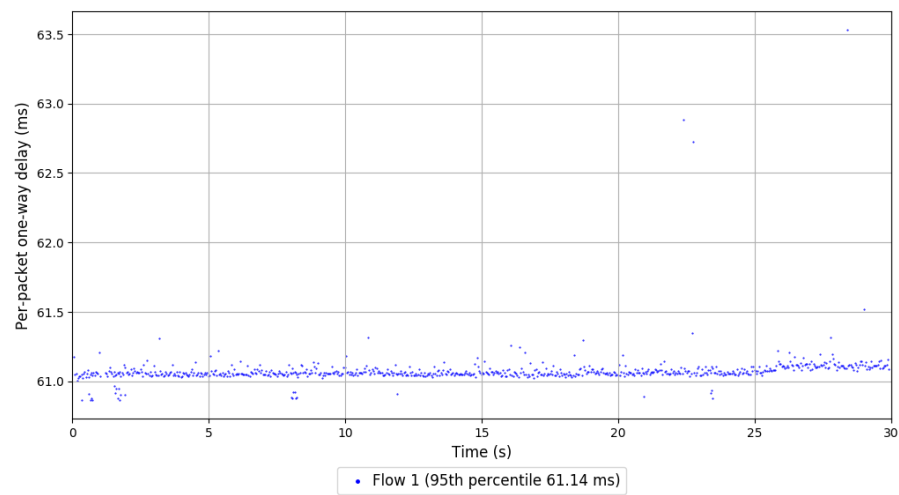
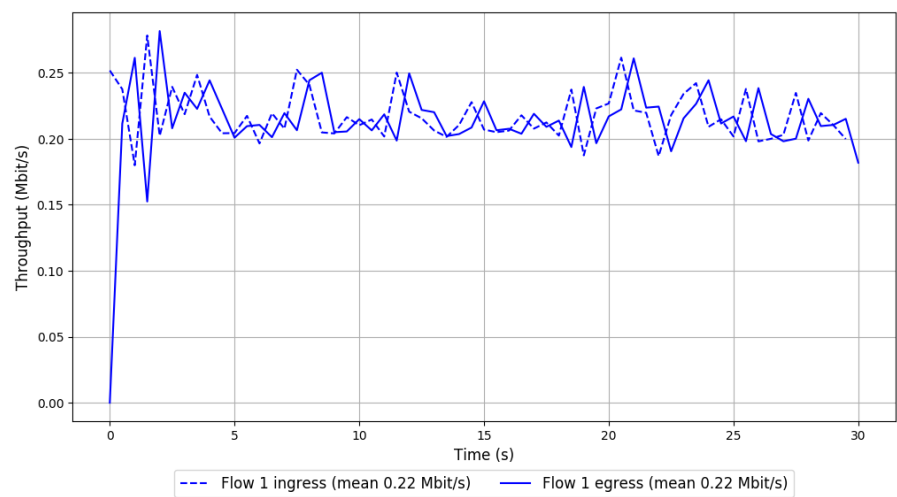


```
Run 1: Statistics of SCReAM

Start at: 2019-07-12 20:50:04
End at: 2019-07-12 20:50:34
Local clock offset: 0.017 ms
Remote clock offset: -0.644 ms

# Below is generated by plot.py at 2019-07-13 01:31:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.143 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.143 ms
Loss rate: 0.39%
```

Run 1: Report of SReAM — Data Link

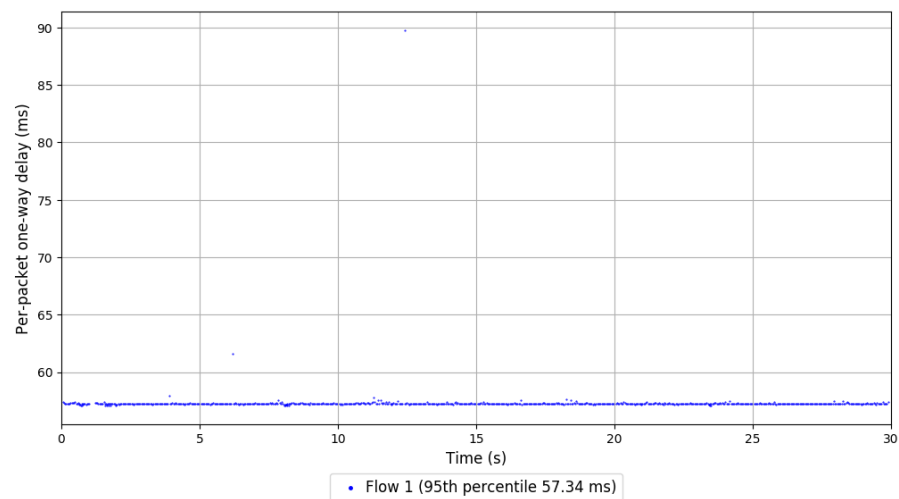
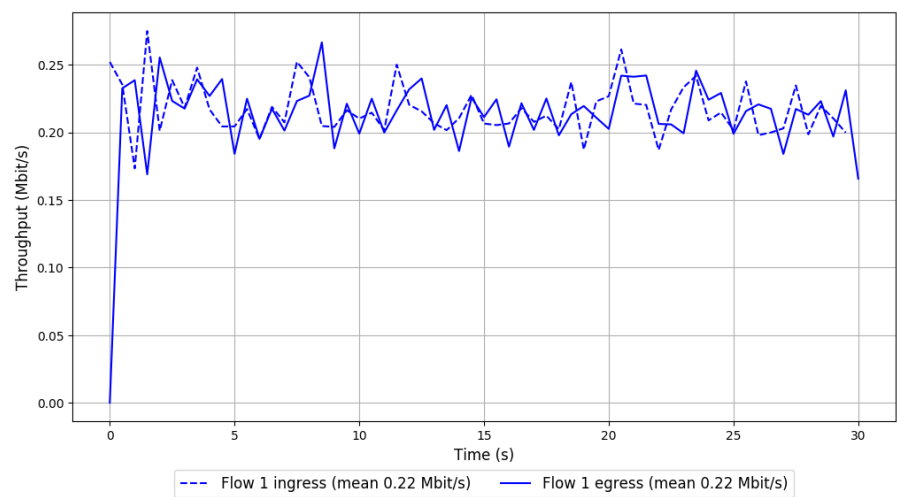


Run 2: Statistics of SCReAM

Start at: 2019-07-12 21:24:50
End at: 2019-07-12 21:25:20
Local clock offset: -0.237 ms
Remote clock offset: -0.355 ms

Below is generated by plot.py at 2019-07-13 01:31:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.342 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.342 ms
Loss rate: 0.39%

Run 2: Report of SReAM — Data Link

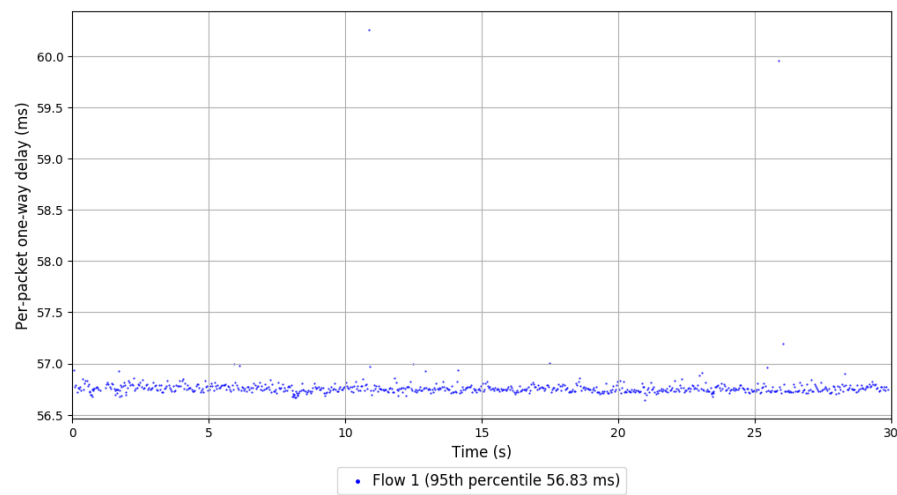
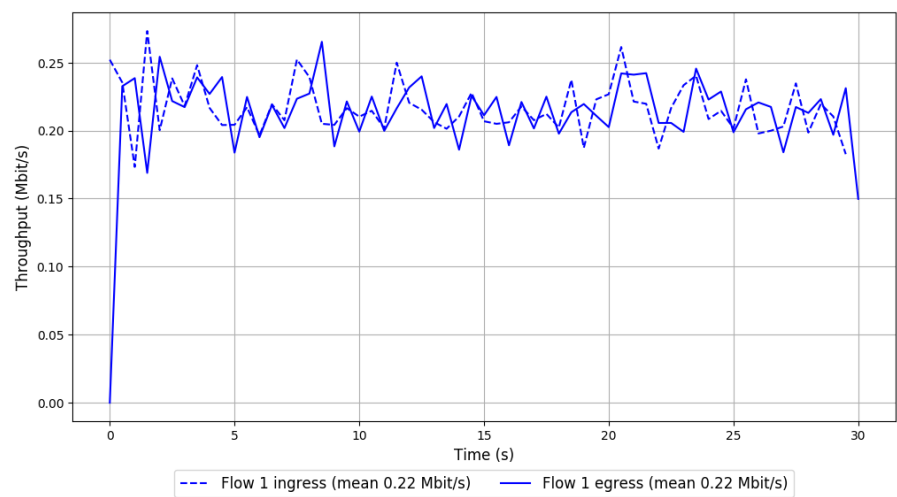


Run 3: Statistics of SCReAM

Start at: 2019-07-12 21:59:56
End at: 2019-07-12 22:00:26
Local clock offset: -0.455 ms
Remote clock offset: -0.412 ms

Below is generated by plot.py at 2019-07-13 01:31:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.825 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.825 ms
Loss rate: 0.38%

Run 3: Report of SReAM — Data Link

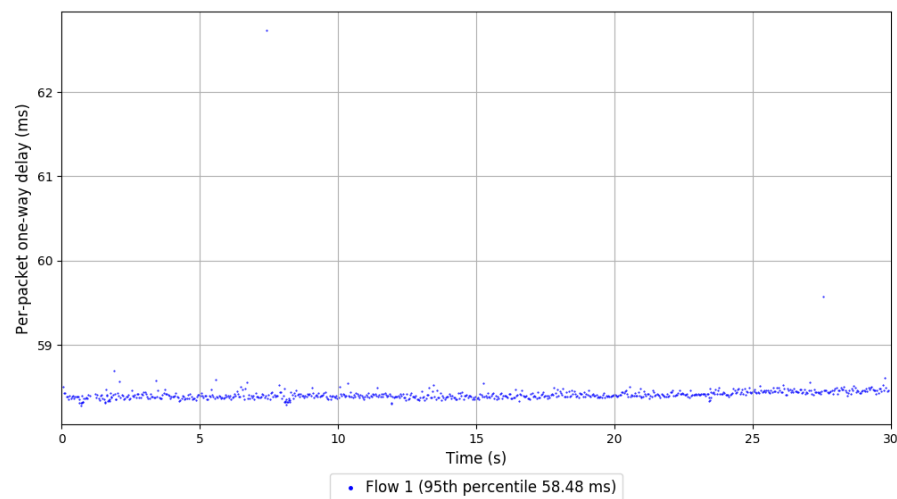
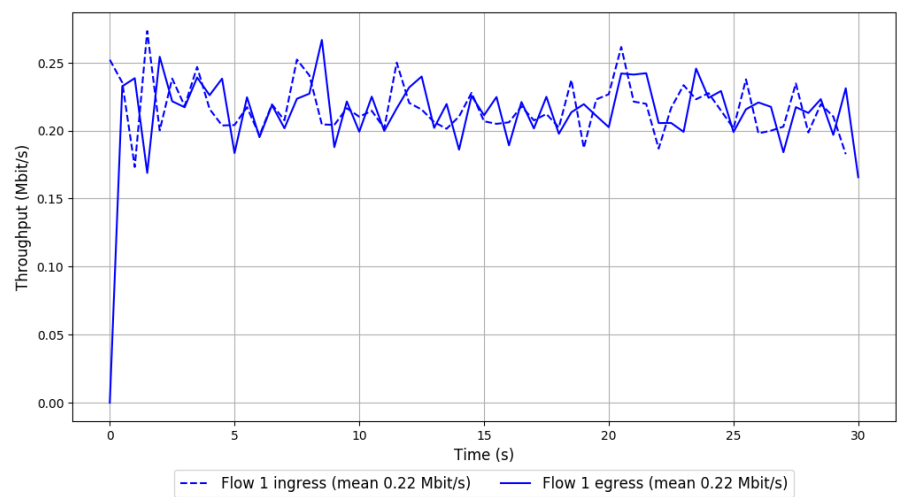


Run 4: Statistics of SCReAM

Start at: 2019-07-12 22:34:59
End at: 2019-07-12 22:35:29
Local clock offset: 0.177 ms
Remote clock offset: -1.098 ms

Below is generated by plot.py at 2019-07-13 01:31:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 58.483 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 58.483 ms
Loss rate: 0.26%

Run 4: Report of SReAM — Data Link

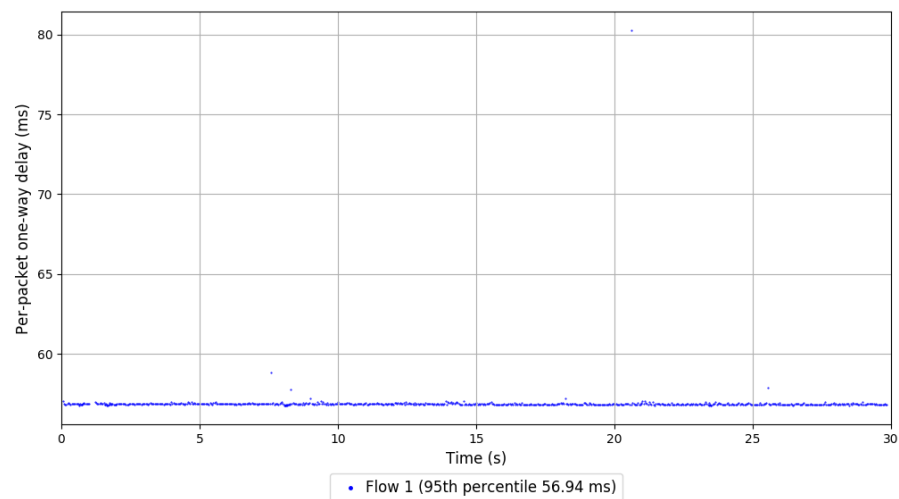
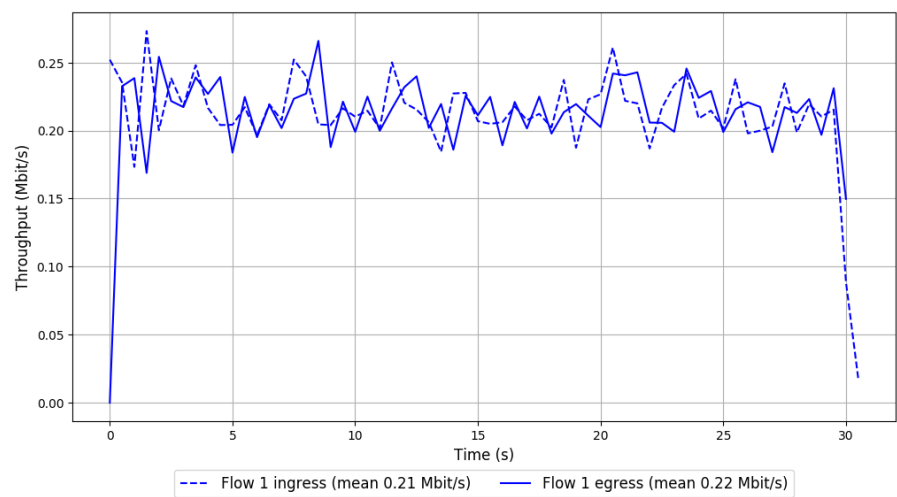


Run 5: Statistics of SCReAM

Start at: 2019-07-12 23:09:51
End at: 2019-07-12 23:10:21
Local clock offset: -0.311 ms
Remote clock offset: -0.181 ms

Below is generated by plot.py at 2019-07-13 01:31:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.938 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.938 ms
Loss rate: 1.43%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-07-12 21:10:18

End at: 2019-07-12 21:10:48

Local clock offset: -0.321 ms

Remote clock offset: -0.41 ms

Below is generated by plot.py at 2019-07-13 01:31:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.91 Mbit/s

95th percentile per-packet one-way delay: 57.483 ms

Loss rate: 0.37%

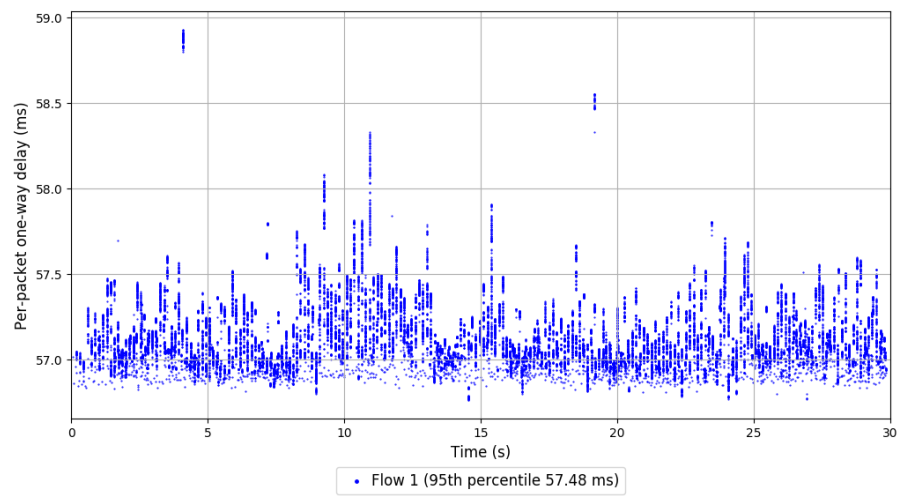
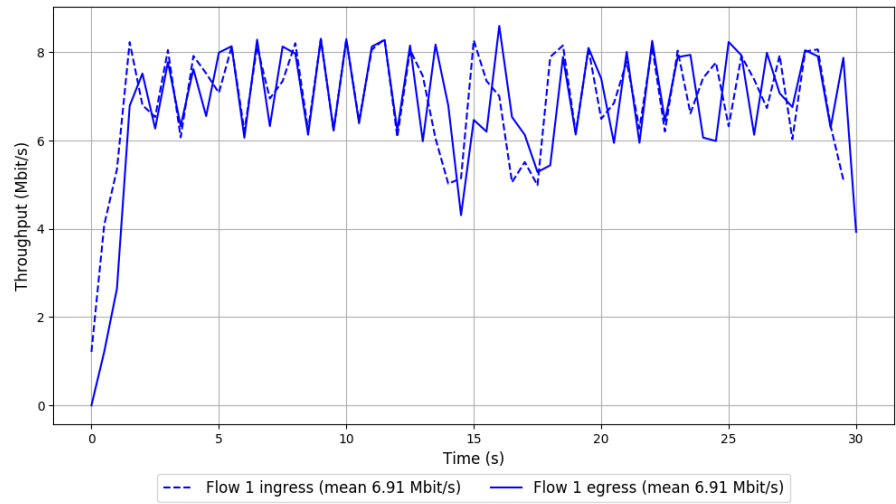
-- Flow 1:

Average throughput: 6.91 Mbit/s

95th percentile per-packet one-way delay: 57.483 ms

Loss rate: 0.37%

Run 1: Report of Sprout — Data Link

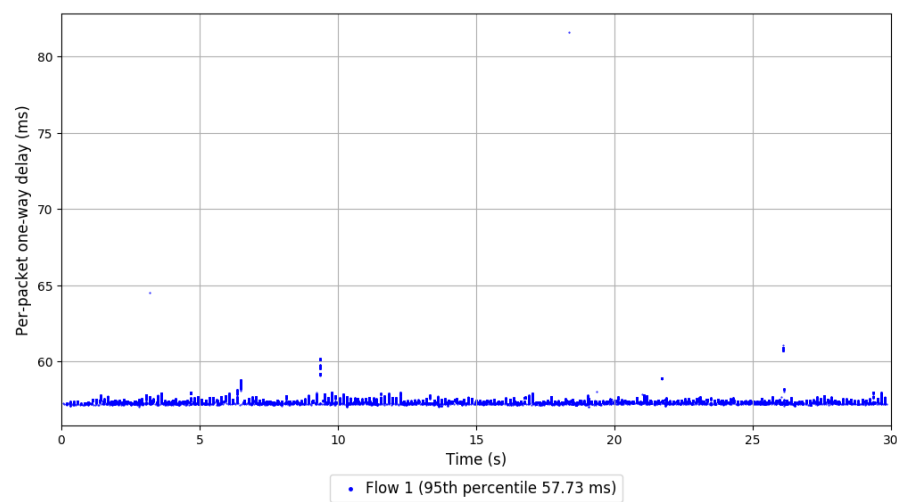
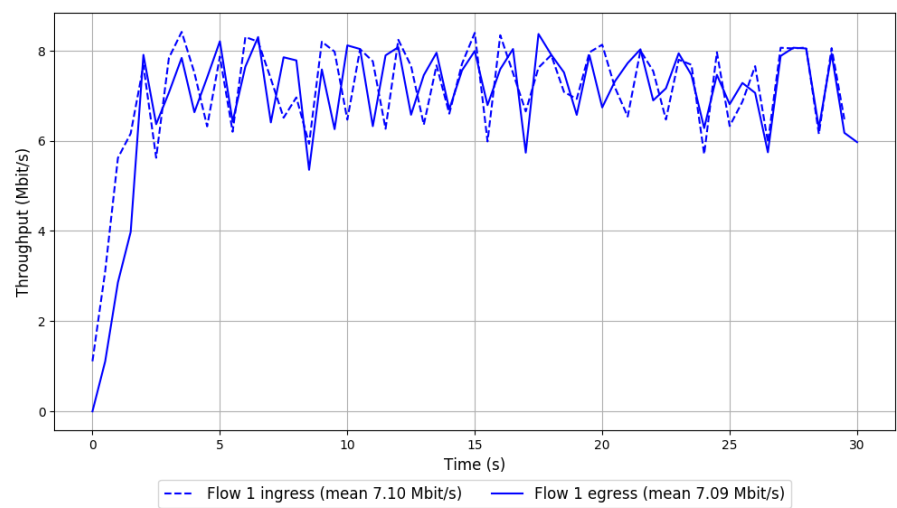


Run 2: Statistics of Sprout

Start at: 2019-07-12 21:45:23
End at: 2019-07-12 21:45:53
Local clock offset: 0.16 ms
Remote clock offset: -0.356 ms

Below is generated by plot.py at 2019-07-13 01:31:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.09 Mbit/s
95th percentile per-packet one-way delay: 57.735 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 7.09 Mbit/s
95th percentile per-packet one-way delay: 57.735 ms
Loss rate: 0.56%

Run 2: Report of Sprout — Data Link

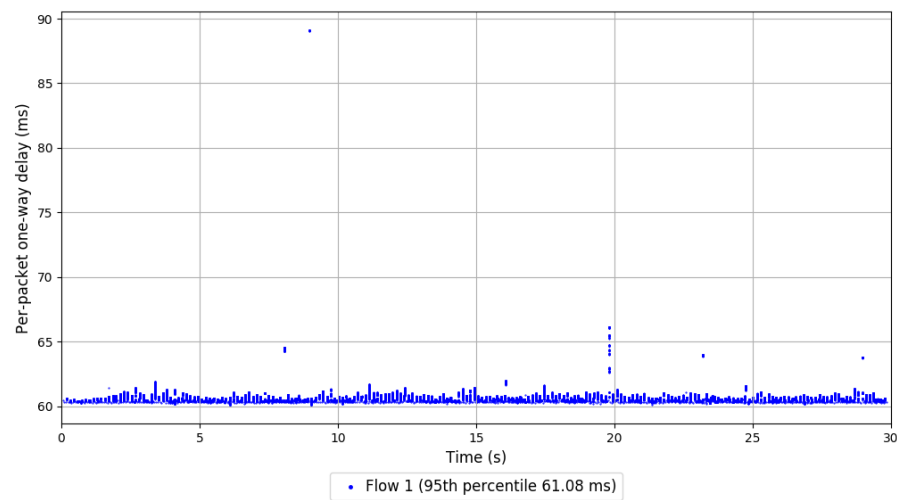
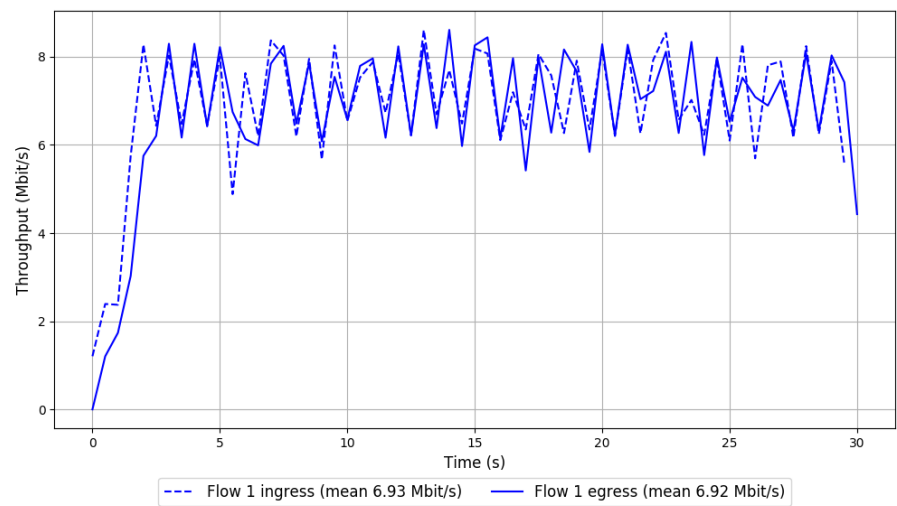


Run 3: Statistics of Sprout

Start at: 2019-07-12 22:20:32
End at: 2019-07-12 22:21:02
Local clock offset: -0.443 ms
Remote clock offset: -0.456 ms

Below is generated by plot.py at 2019-07-13 01:31:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.92 Mbit/s
95th percentile per-packet one-way delay: 61.078 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 6.92 Mbit/s
95th percentile per-packet one-way delay: 61.078 ms
Loss rate: 0.43%

Run 3: Report of Sprout — Data Link

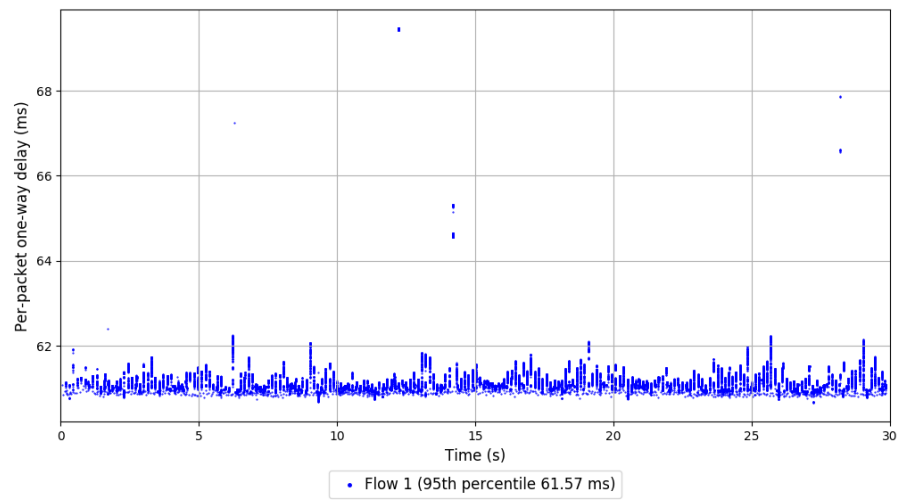
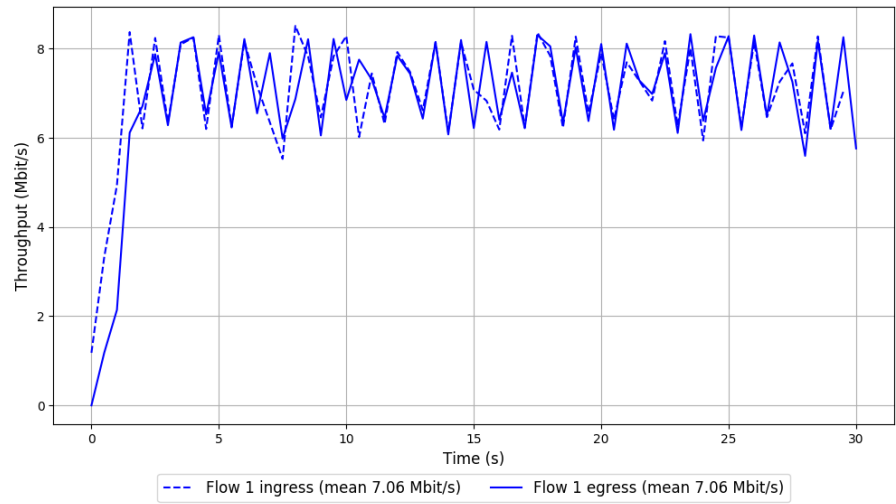


Run 4: Statistics of Sprout

Start at: 2019-07-12 22:55:18
End at: 2019-07-12 22:55:48
Local clock offset: 0.15 ms
Remote clock offset: -0.445 ms

Below is generated by plot.py at 2019-07-13 01:31:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.06 Mbit/s
95th percentile per-packet one-way delay: 61.574 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 7.06 Mbit/s
95th percentile per-packet one-way delay: 61.574 ms
Loss rate: 0.30%

Run 4: Report of Sprout — Data Link

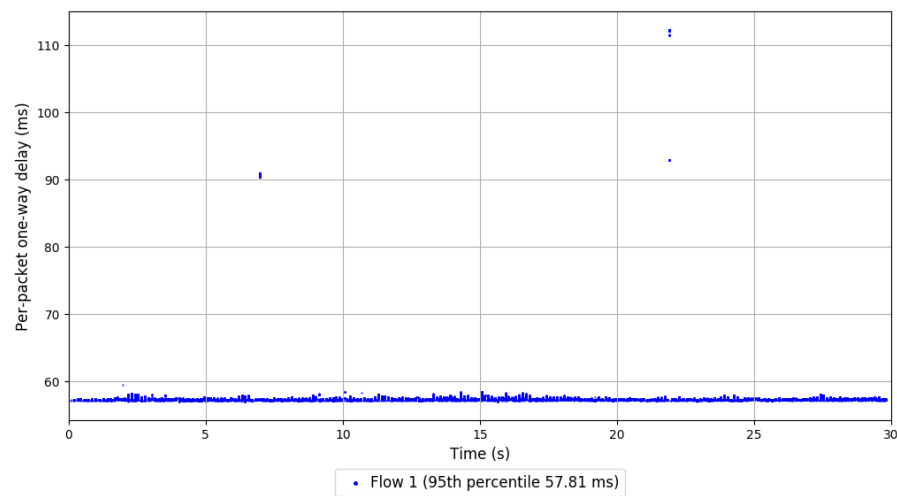
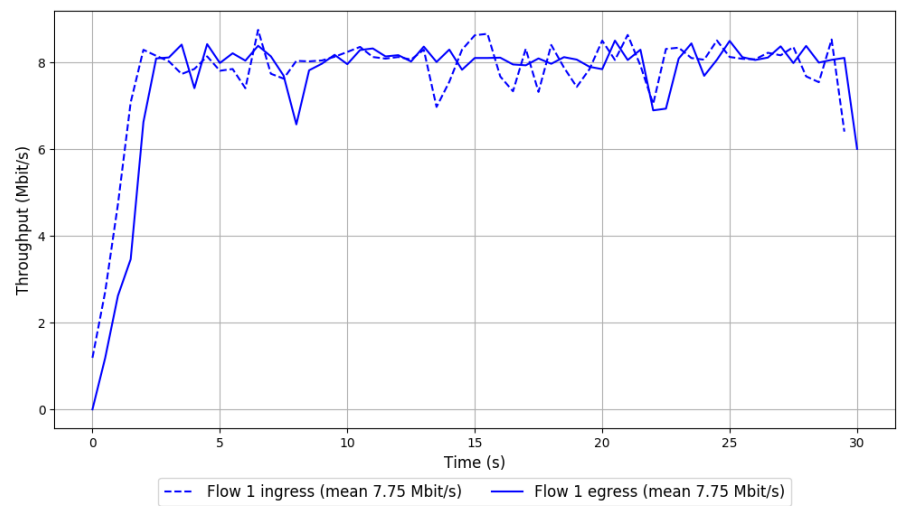


Run 5: Statistics of Sprout

Start at: 2019-07-12 23:30:34
End at: 2019-07-12 23:31:04
Local clock offset: -0.038 ms
Remote clock offset: -0.115 ms

Below is generated by plot.py at 2019-07-13 01:31:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.75 Mbit/s
95th percentile per-packet one-way delay: 57.814 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 7.75 Mbit/s
95th percentile per-packet one-way delay: 57.814 ms
Loss rate: 0.44%

Run 5: Report of Sprout — Data Link

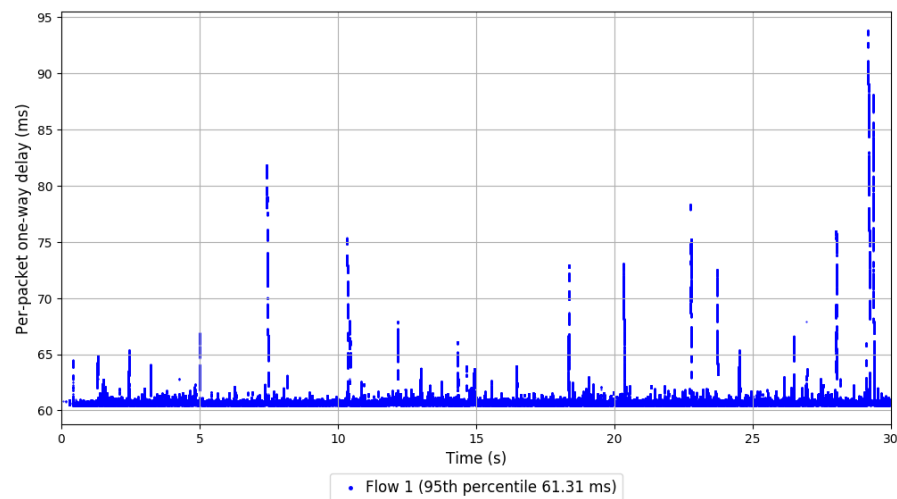
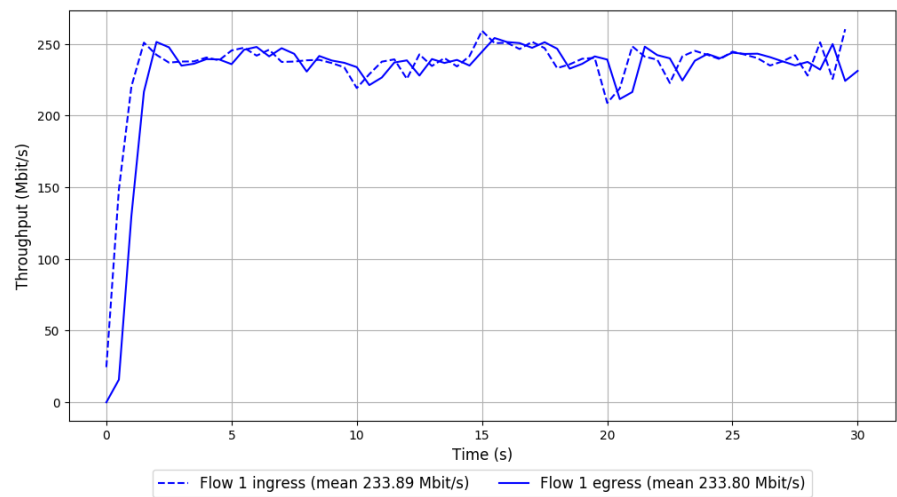


Run 1: Statistics of TaoVA-100x

Start at: 2019-07-12 20:51:12
End at: 2019-07-12 20:51:42
Local clock offset: -0.091 ms
Remote clock offset: -0.397 ms

Below is generated by plot.py at 2019-07-13 01:35:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 233.80 Mbit/s
95th percentile per-packet one-way delay: 61.313 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 233.80 Mbit/s
95th percentile per-packet one-way delay: 61.313 ms
Loss rate: 0.44%

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

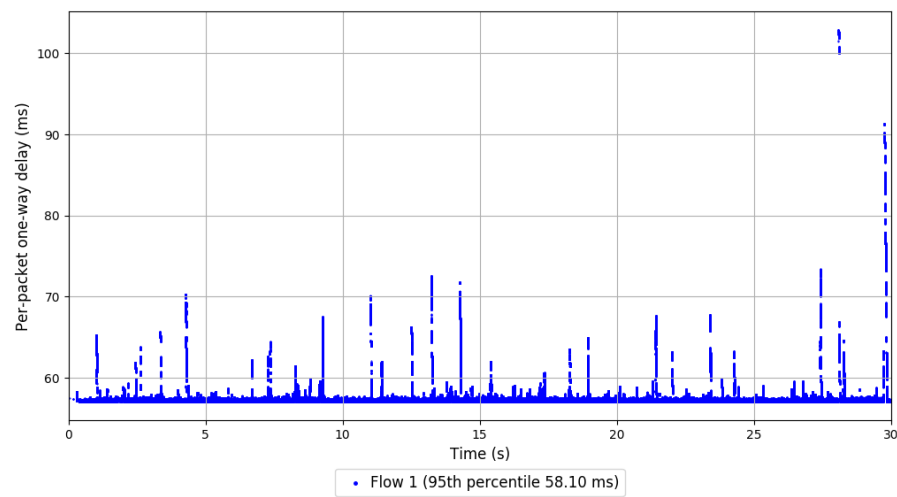
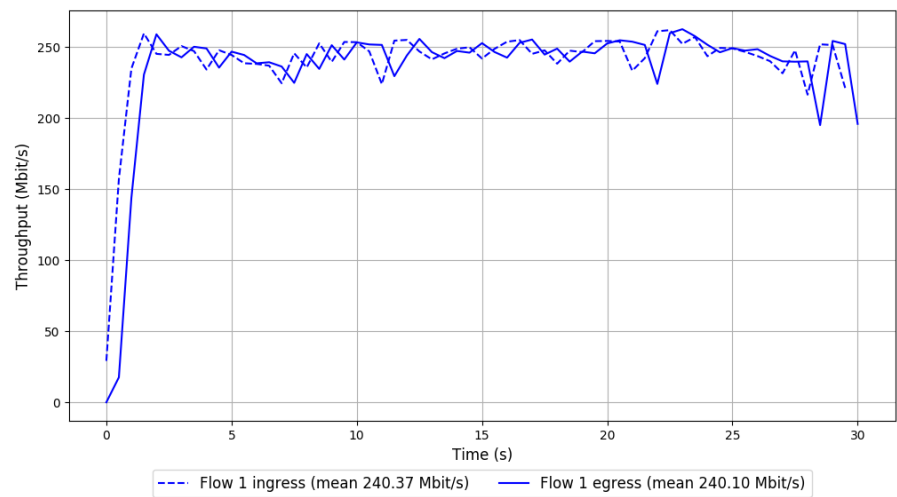


Run 2: Statistics of TaoVA-100x

Start at: 2019-07-12 21:25:58
End at: 2019-07-12 21:26:28
Local clock offset: -0.077 ms
Remote clock offset: -0.307 ms

Below is generated by plot.py at 2019-07-13 01:35:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 240.10 Mbit/s
95th percentile per-packet one-way delay: 58.101 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 240.10 Mbit/s
95th percentile per-packet one-way delay: 58.101 ms
Loss rate: 0.49%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-07-12 22:01:04

End at: 2019-07-12 22:01:34

Local clock offset: -0.082 ms

Remote clock offset: -0.509 ms

Below is generated by plot.py at 2019-07-13 01:35:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.17 Mbit/s

95th percentile per-packet one-way delay: 57.745 ms

Loss rate: 0.34%

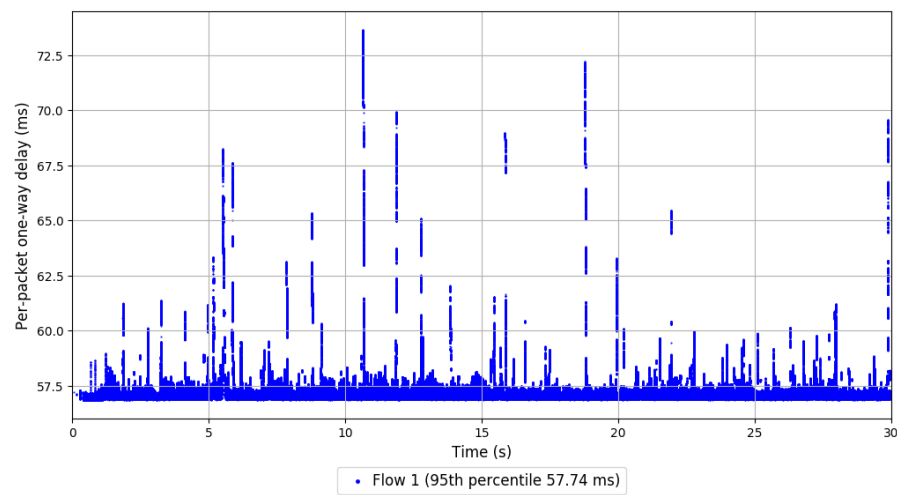
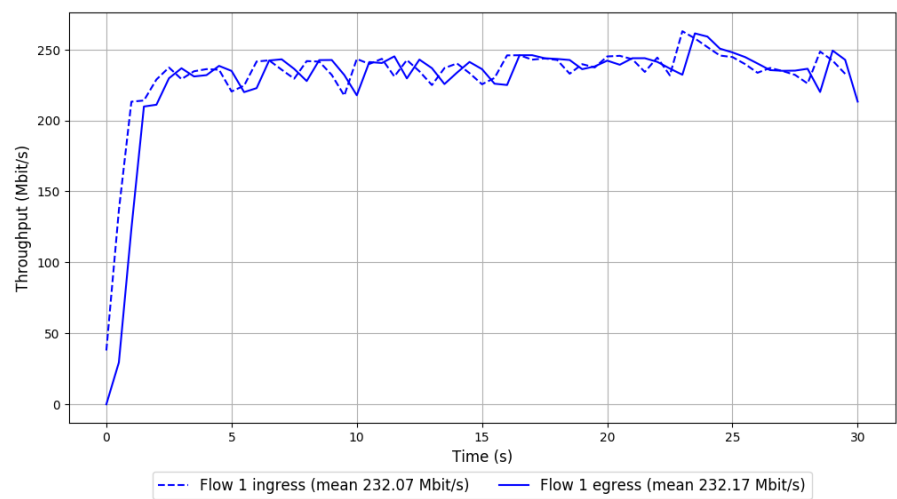
-- Flow 1:

Average throughput: 232.17 Mbit/s

95th percentile per-packet one-way delay: 57.745 ms

Loss rate: 0.34%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-07-12 22:36:07

End at: 2019-07-12 22:36:37

Local clock offset: 0.081 ms

Remote clock offset: -0.515 ms

Below is generated by plot.py at 2019-07-13 01:36:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 236.02 Mbit/s

95th percentile per-packet one-way delay: 61.732 ms

Loss rate: 0.47%

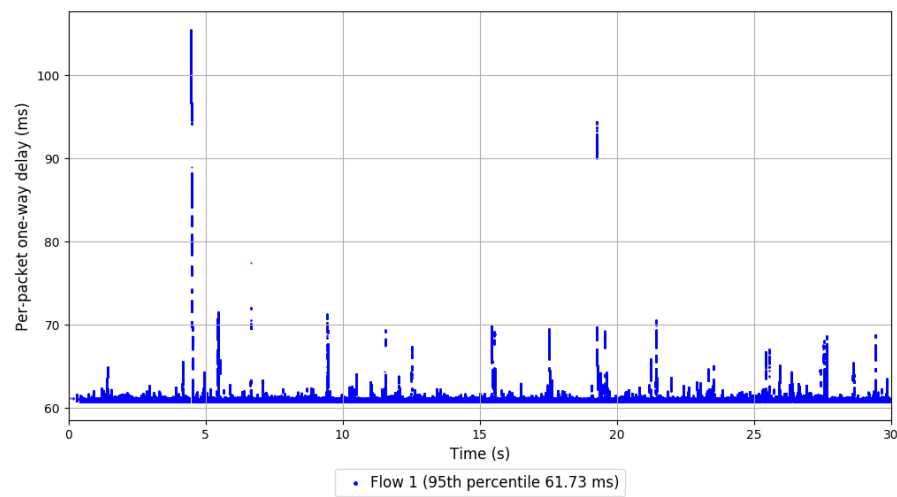
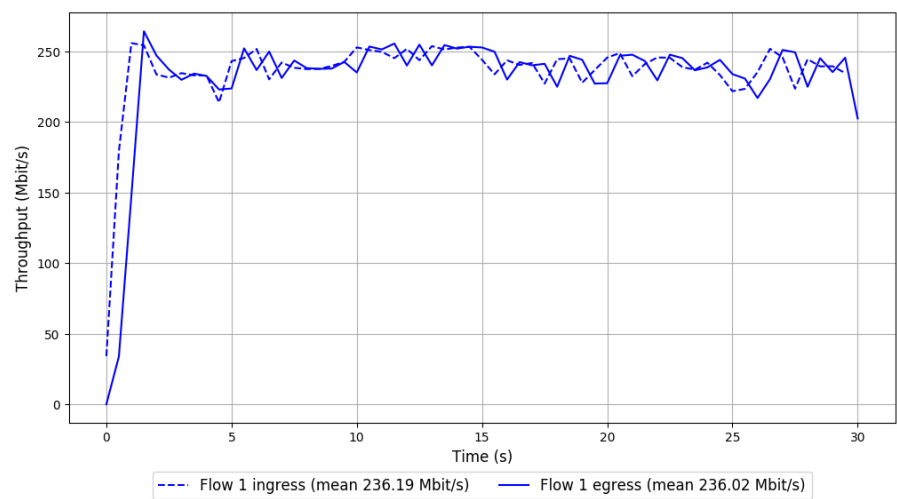
-- Flow 1:

Average throughput: 236.02 Mbit/s

95th percentile per-packet one-way delay: 61.732 ms

Loss rate: 0.47%

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

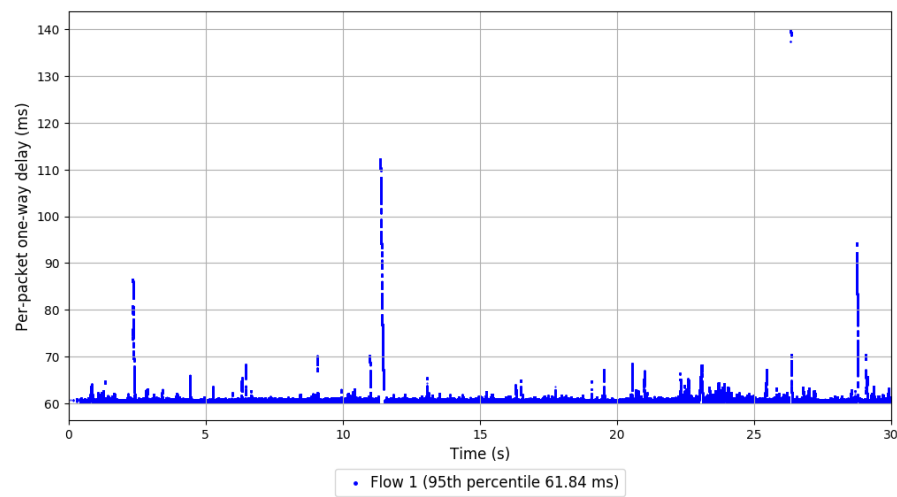
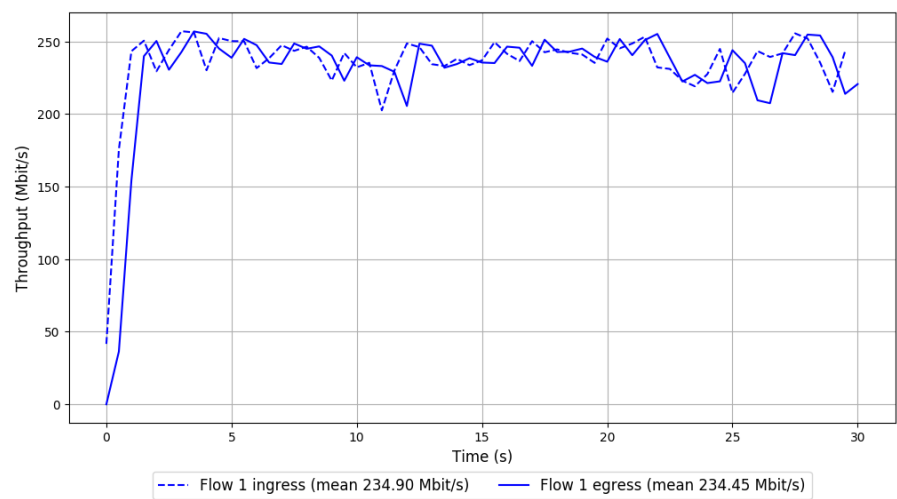


Run 5: Statistics of TaoVA-100x

Start at: 2019-07-12 23:11:00
End at: 2019-07-12 23:11:30
Local clock offset: -0.203 ms
Remote clock offset: -0.285 ms

Below is generated by plot.py at 2019-07-13 01:36:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 234.45 Mbit/s
95th percentile per-packet one-way delay: 61.839 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 234.45 Mbit/s
95th percentile per-packet one-way delay: 61.839 ms
Loss rate: 0.59%

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

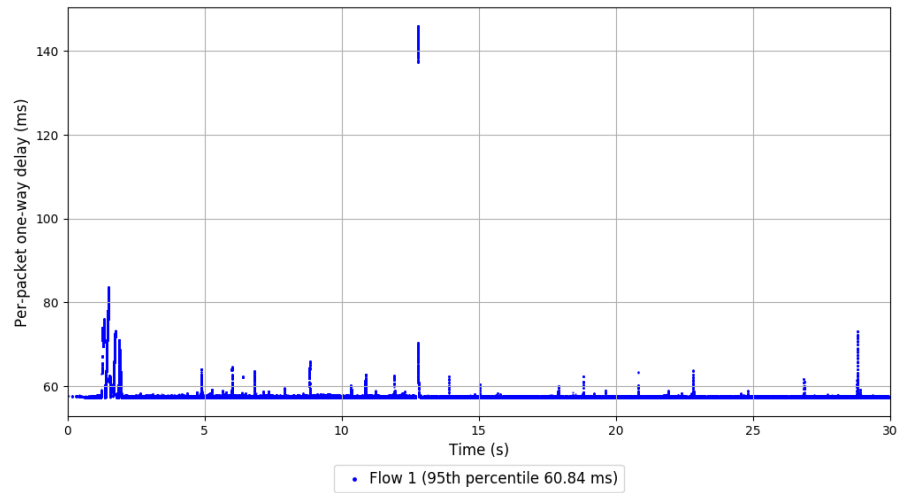
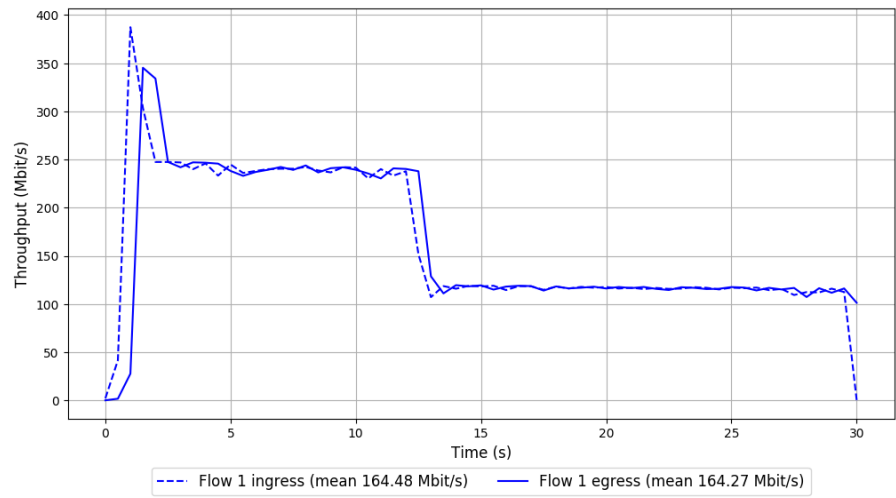


Run 1: Statistics of TCP Vegas

Start at: 2019-07-12 20:54:14
End at: 2019-07-12 20:54:44
Local clock offset: 0.088 ms
Remote clock offset: -0.382 ms

Below is generated by plot.py at 2019-07-13 01:36:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 164.27 Mbit/s
95th percentile per-packet one-way delay: 60.837 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 164.27 Mbit/s
95th percentile per-packet one-way delay: 60.837 ms
Loss rate: 0.52%

Run 1: Report of TCP Vegas — Data Link

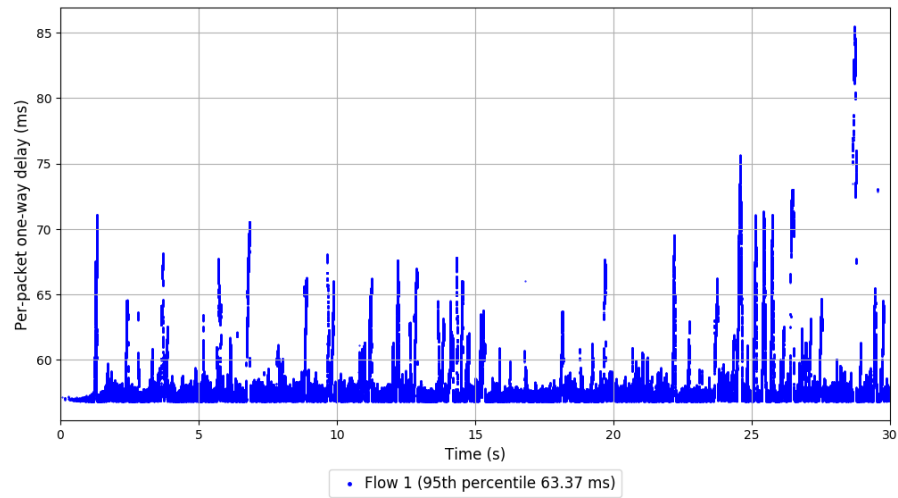
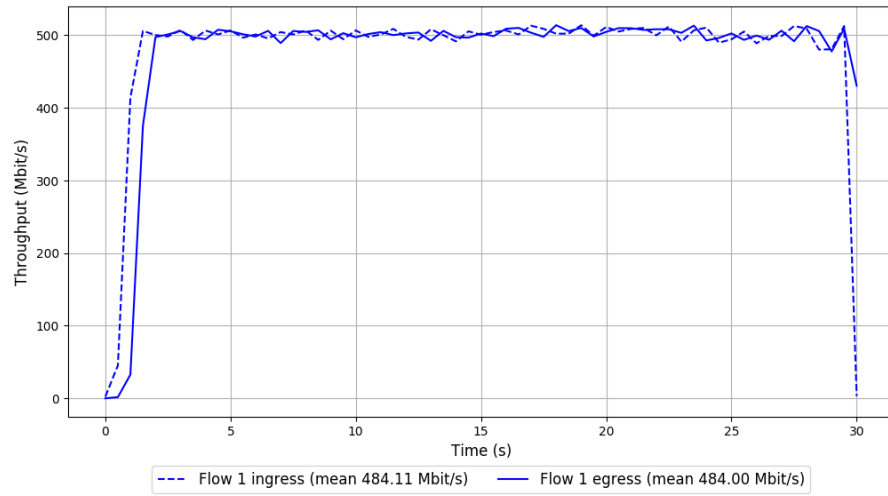


Run 2: Statistics of TCP Vegas

Start at: 2019-07-12 21:29:03
End at: 2019-07-12 21:29:33
Local clock offset: -0.067 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2019-07-13 01:41:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 484.00 Mbit/s
95th percentile per-packet one-way delay: 63.373 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 484.00 Mbit/s
95th percentile per-packet one-way delay: 63.373 ms
Loss rate: 0.41%

Run 2: Report of TCP Vegas — Data Link

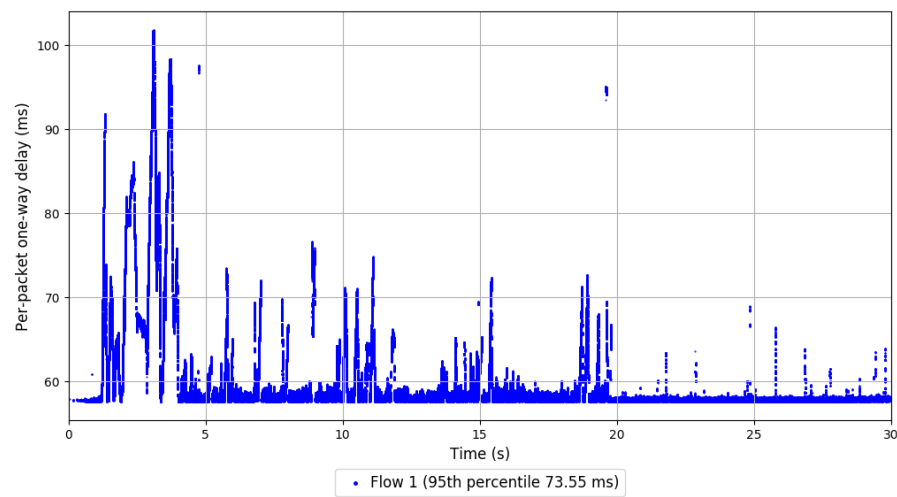
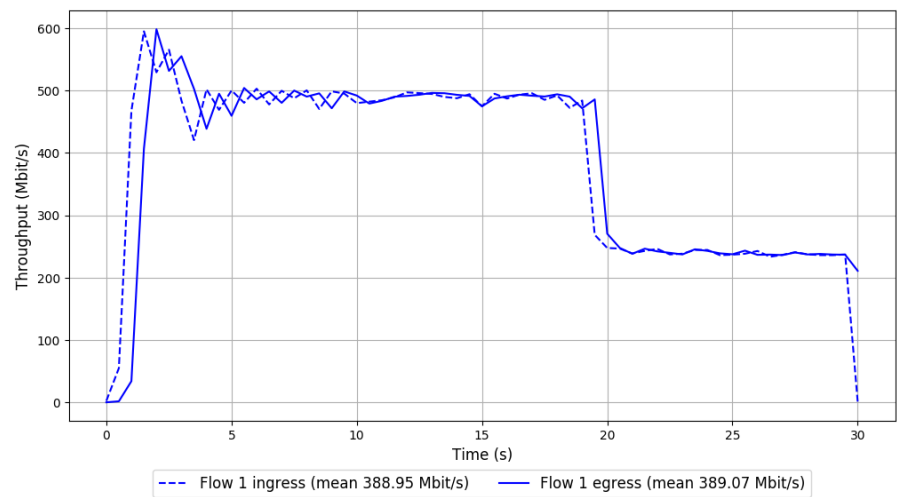


Run 3: Statistics of TCP Vegas

Start at: 2019-07-12 22:04:07
End at: 2019-07-12 22:04:37
Local clock offset: 0.379 ms
Remote clock offset: -0.497 ms

Below is generated by plot.py at 2019-07-13 01:41:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 389.07 Mbit/s
95th percentile per-packet one-way delay: 73.554 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 389.07 Mbit/s
95th percentile per-packet one-way delay: 73.554 ms
Loss rate: 0.35%

Run 3: Report of TCP Vegas — Data Link

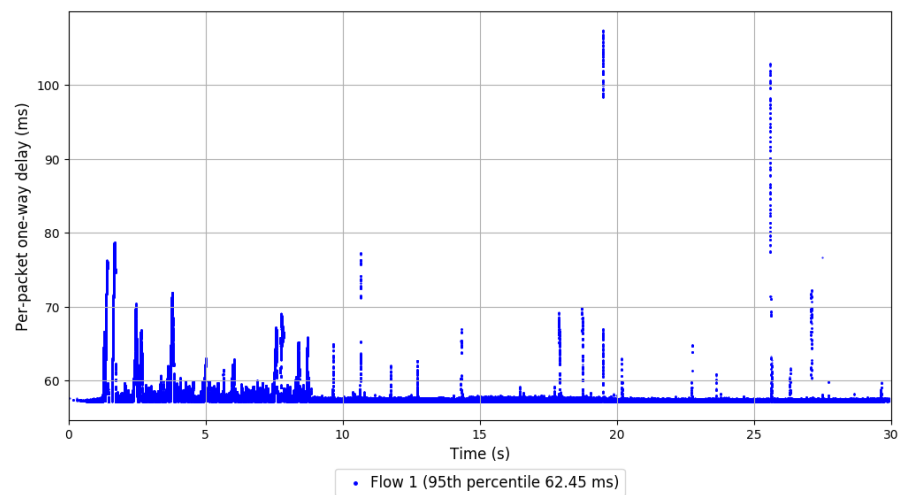
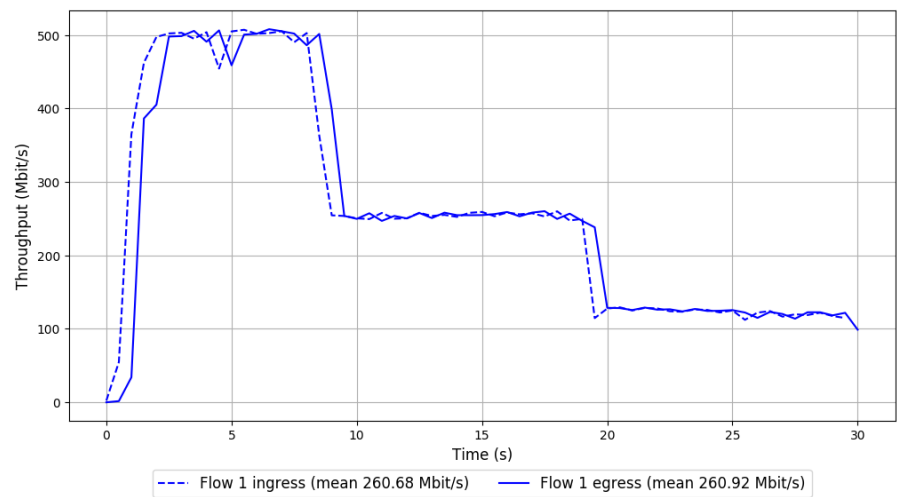


Run 4: Statistics of TCP Vegas

Start at: 2019-07-12 22:39:07
End at: 2019-07-12 22:39:37
Local clock offset: 0.363 ms
Remote clock offset: -0.431 ms

Below is generated by plot.py at 2019-07-13 01:41:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 260.92 Mbit/s
95th percentile per-packet one-way delay: 62.446 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 260.92 Mbit/s
95th percentile per-packet one-way delay: 62.446 ms
Loss rate: 0.29%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-07-12 23:14:05

End at: 2019-07-12 23:14:35

Local clock offset: 0.307 ms

Remote clock offset: -0.35 ms

Below is generated by plot.py at 2019-07-13 01:43:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 386.82 Mbit/s

95th percentile per-packet one-way delay: 81.851 ms

Loss rate: 0.38%

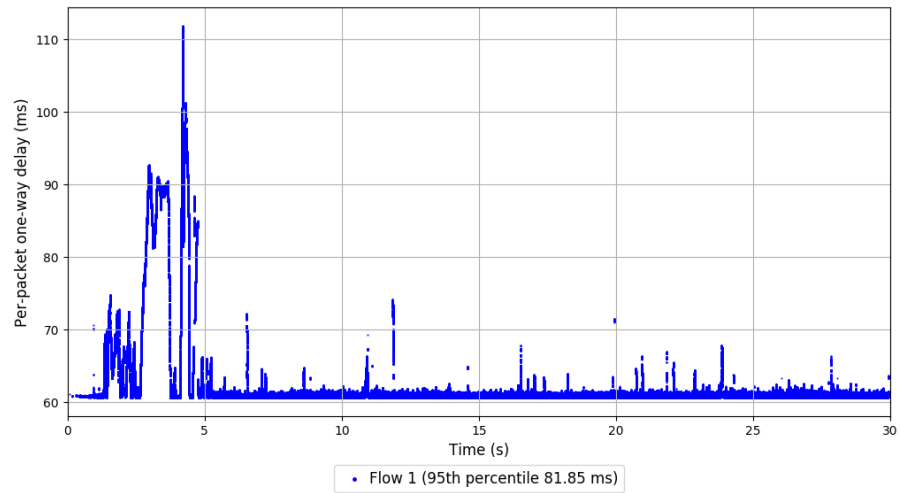
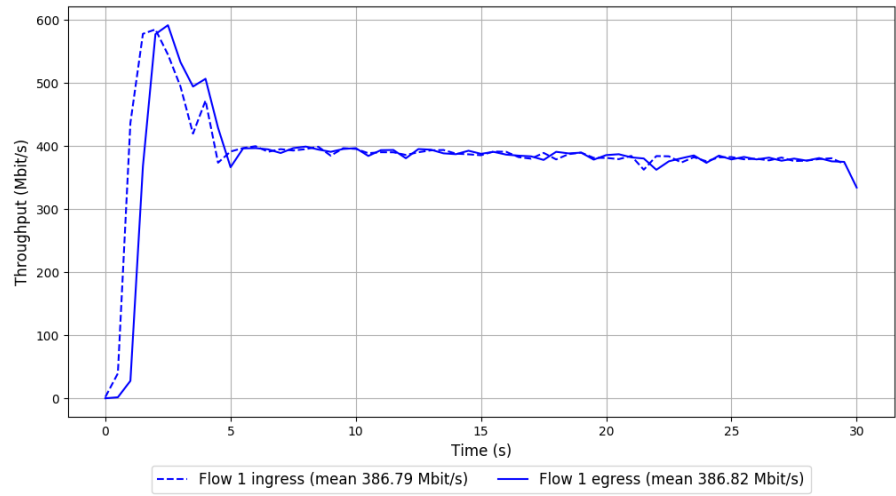
-- Flow 1:

Average throughput: 386.82 Mbit/s

95th percentile per-packet one-way delay: 81.851 ms

Loss rate: 0.38%

Run 5: Report of TCP Vegas — Data Link

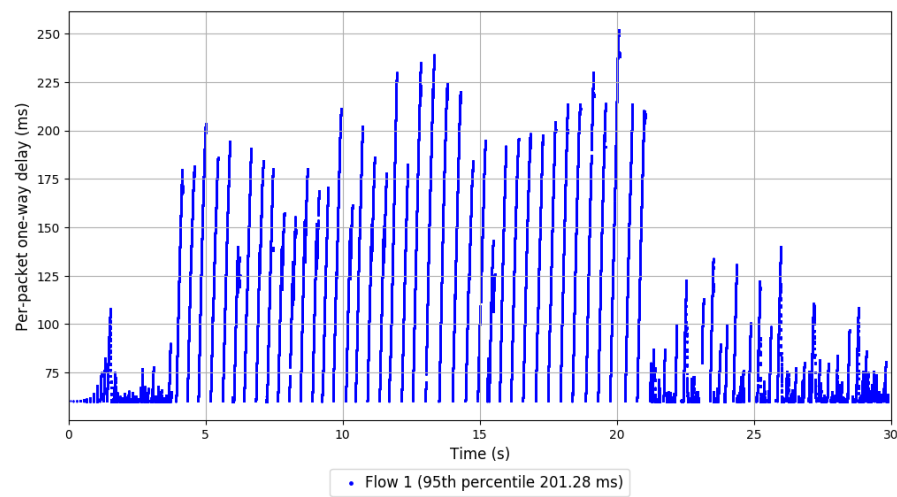
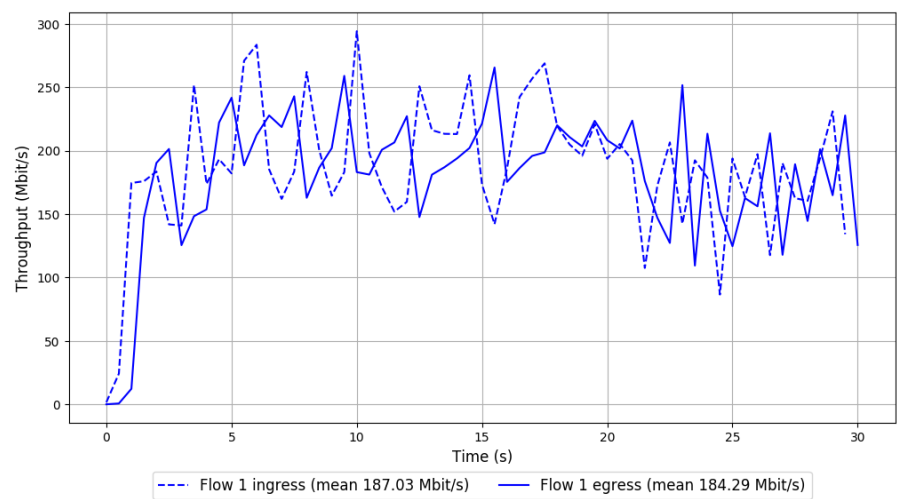


Run 1: Statistics of Verus

Start at: 2019-07-12 20:41:18
End at: 2019-07-12 20:41:48
Local clock offset: -0.522 ms
Remote clock offset: -0.447 ms

Below is generated by plot.py at 2019-07-13 01:43:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 184.29 Mbit/s
95th percentile per-packet one-way delay: 201.276 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 184.29 Mbit/s
95th percentile per-packet one-way delay: 201.276 ms
Loss rate: 1.84%

Run 1: Report of Verus — Data Link

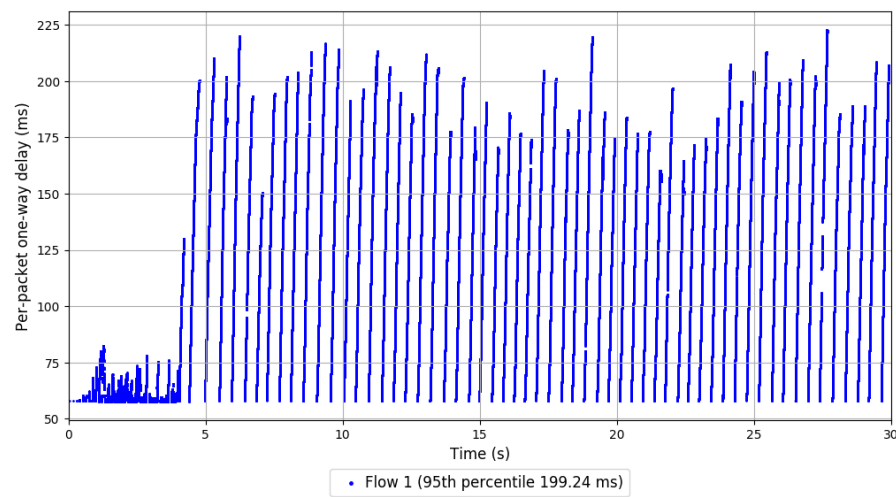
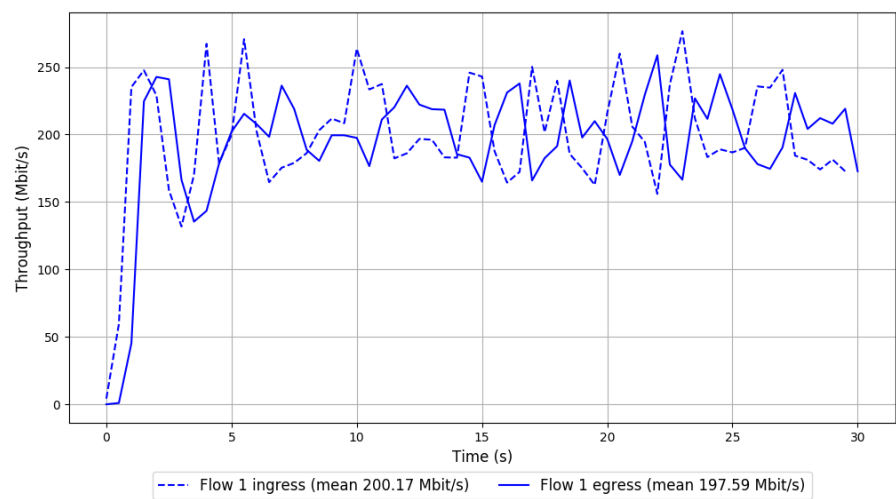


Run 2: Statistics of Verus

Start at: 2019-07-12 21:16:03
End at: 2019-07-12 21:16:33
Local clock offset: 0.319 ms
Remote clock offset: -0.364 ms

Below is generated by plot.py at 2019-07-13 01:43:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 197.59 Mbit/s
95th percentile per-packet one-way delay: 199.240 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 197.59 Mbit/s
95th percentile per-packet one-way delay: 199.240 ms
Loss rate: 0.79%

Run 2: Report of Verus — Data Link

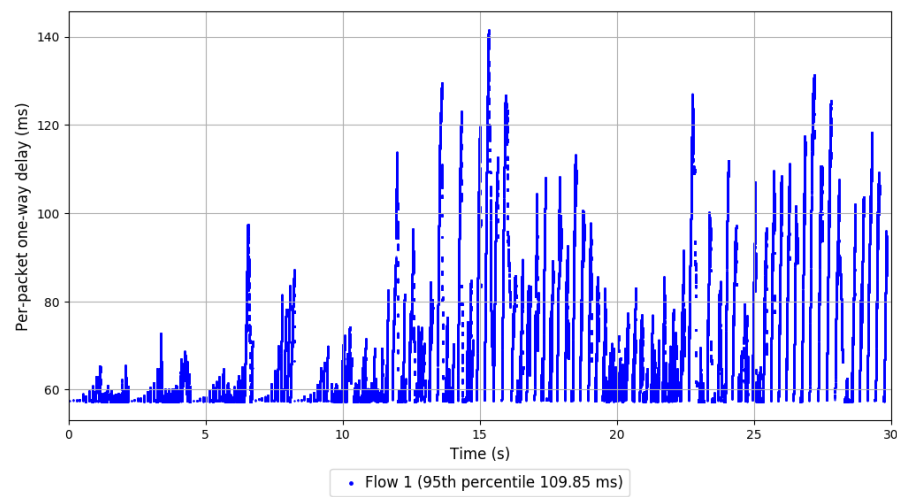
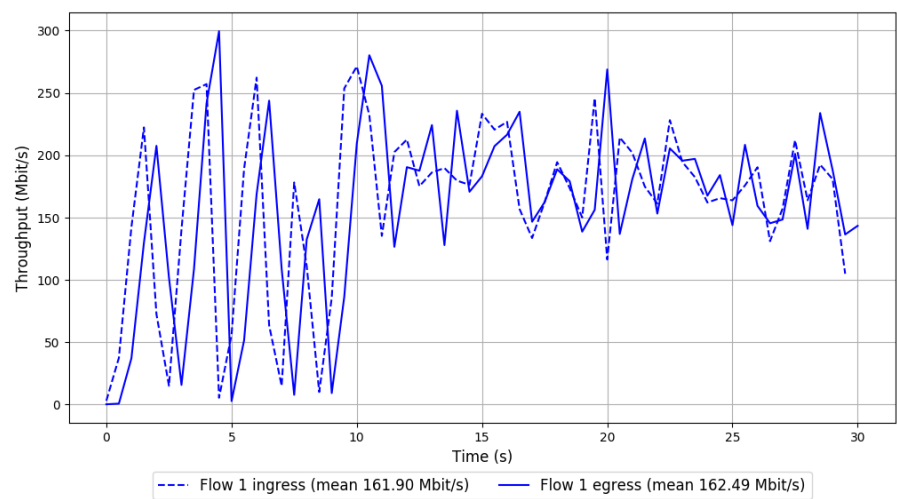


Run 3: Statistics of Verus

Start at: 2019-07-12 21:51:05
End at: 2019-07-12 21:51:35
Local clock offset: 0.417 ms
Remote clock offset: -0.394 ms

Below is generated by plot.py at 2019-07-13 01:43:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 162.49 Mbit/s
95th percentile per-packet one-way delay: 109.848 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 162.49 Mbit/s
95th percentile per-packet one-way delay: 109.848 ms
Loss rate: 0.12%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-07-12 22:26:13

End at: 2019-07-12 22:26:43

Local clock offset: -0.213 ms

Remote clock offset: -0.29 ms

Below is generated by plot.py at 2019-07-13 01:43:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.09 Mbit/s

95th percentile per-packet one-way delay: 103.020 ms

Loss rate: 0.48%

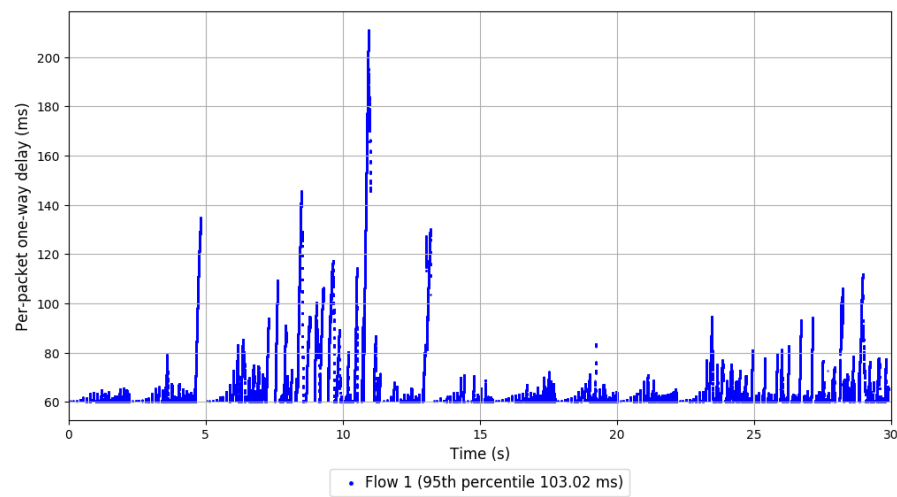
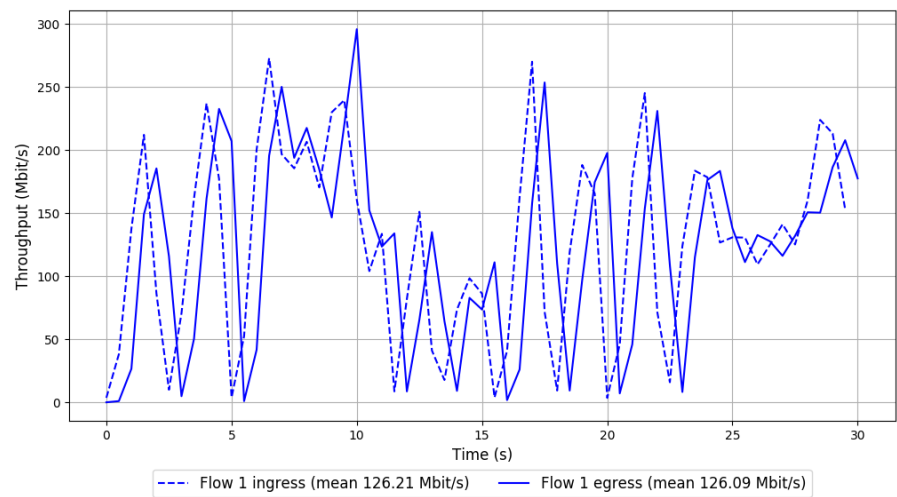
-- Flow 1:

Average throughput: 126.09 Mbit/s

95th percentile per-packet one-way delay: 103.020 ms

Loss rate: 0.48%

Run 4: Report of Verus — Data Link

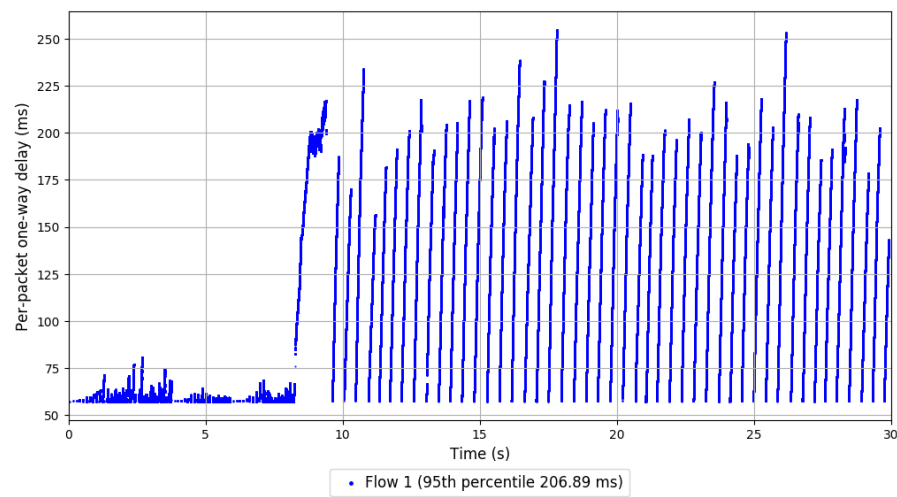
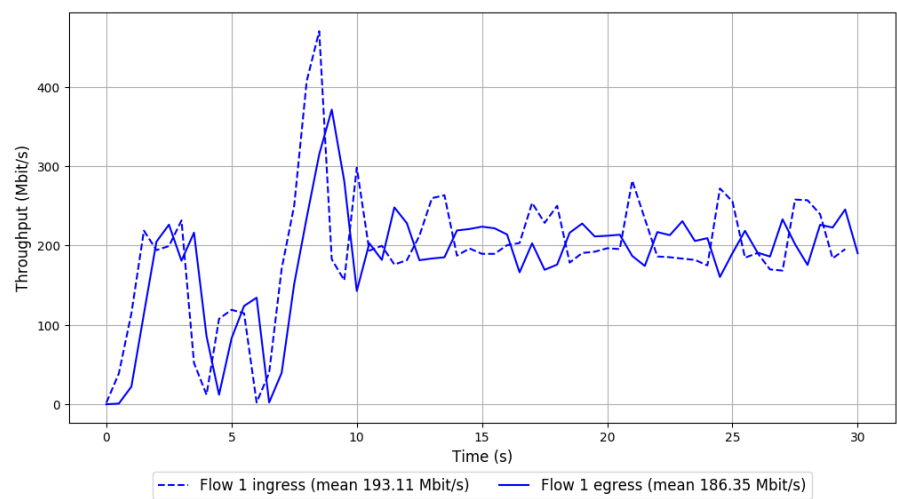


Run 5: Statistics of Verus

Start at: 2019-07-12 23:01:02
End at: 2019-07-12 23:01:32
Local clock offset: -0.081 ms
Remote clock offset: -0.576 ms

Below is generated by plot.py at 2019-07-13 01:45:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 186.35 Mbit/s
95th percentile per-packet one-way delay: 206.892 ms
Loss rate: 3.42%
-- Flow 1:
Average throughput: 186.35 Mbit/s
95th percentile per-packet one-way delay: 206.892 ms
Loss rate: 3.42%

Run 5: Report of Verus — Data Link

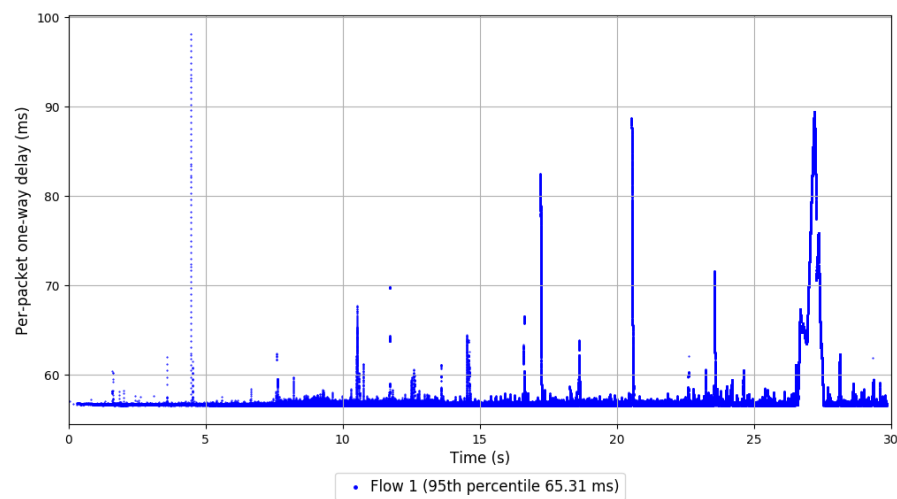
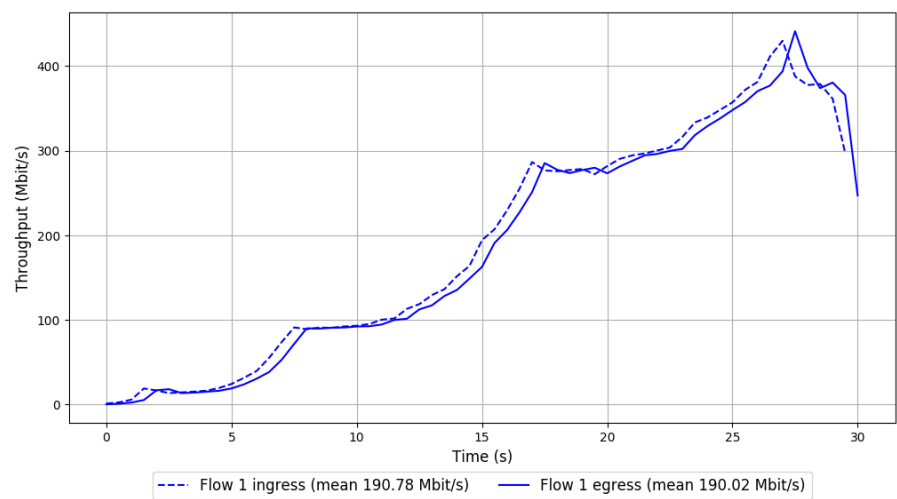


Run 1: Statistics of PCC-Vivace

Start at: 2019-07-12 21:02:52
End at: 2019-07-12 21:03:22
Local clock offset: -0.285 ms
Remote clock offset: -0.155 ms

Below is generated by plot.py at 2019-07-13 01:45:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 190.02 Mbit/s
95th percentile per-packet one-way delay: 65.313 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 190.02 Mbit/s
95th percentile per-packet one-way delay: 65.313 ms
Loss rate: 0.78%

Run 1: Report of PCC-Vivace — Data Link

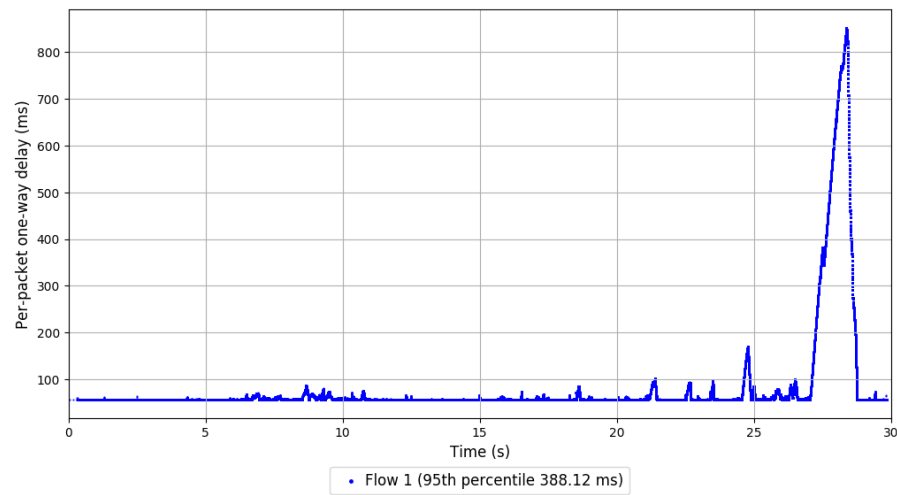
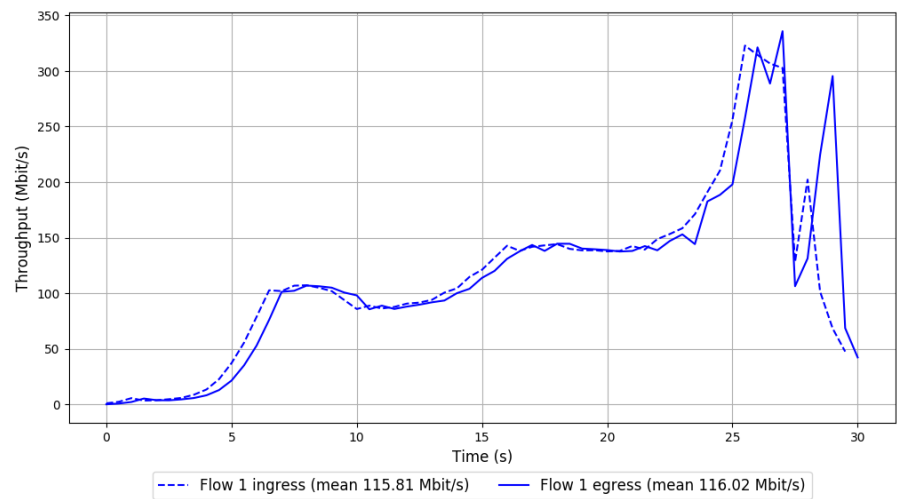


Run 2: Statistics of PCC-Vivace

Start at: 2019-07-12 21:38:02
End at: 2019-07-12 21:38:32
Local clock offset: -0.537 ms
Remote clock offset: -0.272 ms

Below is generated by plot.py at 2019-07-13 01:45:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 116.02 Mbit/s
95th percentile per-packet one-way delay: 388.124 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 116.02 Mbit/s
95th percentile per-packet one-way delay: 388.124 ms
Loss rate: 0.20%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-07-12 22:13:02

End at: 2019-07-12 22:13:32

Local clock offset: 0.157 ms

Remote clock offset: -0.526 ms

Below is generated by plot.py at 2019-07-13 01:45:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.21 Mbit/s

95th percentile per-packet one-way delay: 61.335 ms

Loss rate: 0.50%

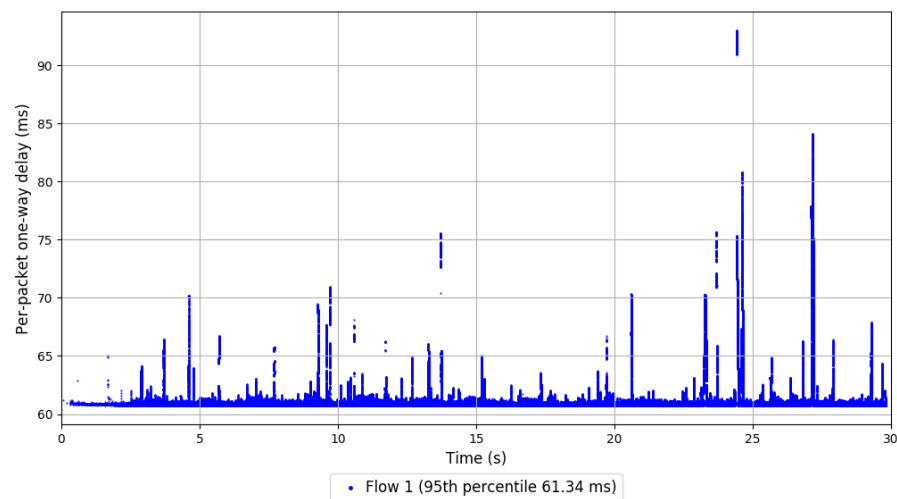
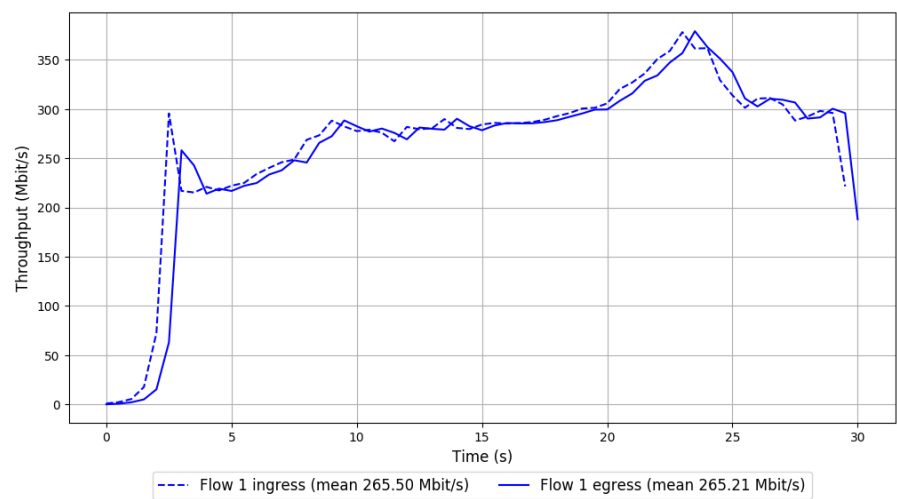
-- Flow 1:

Average throughput: 265.21 Mbit/s

95th percentile per-packet one-way delay: 61.335 ms

Loss rate: 0.50%

Run 3: Report of PCC-Vivace — Data Link

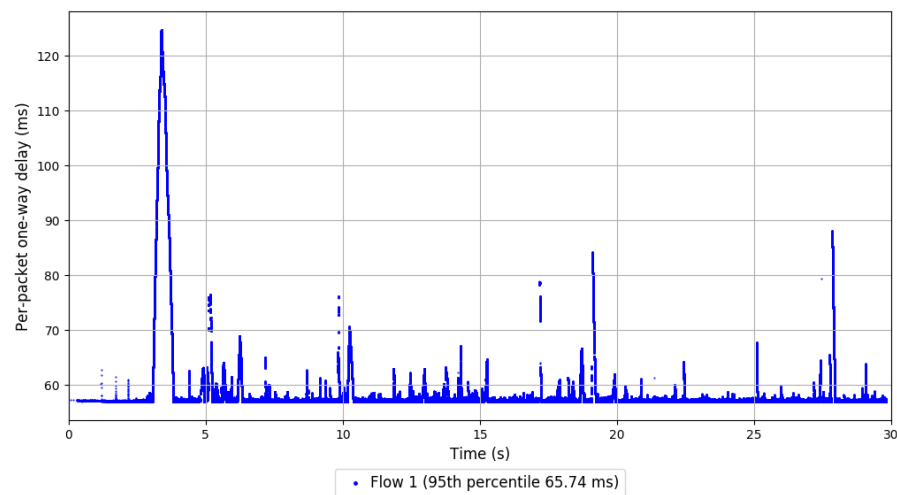
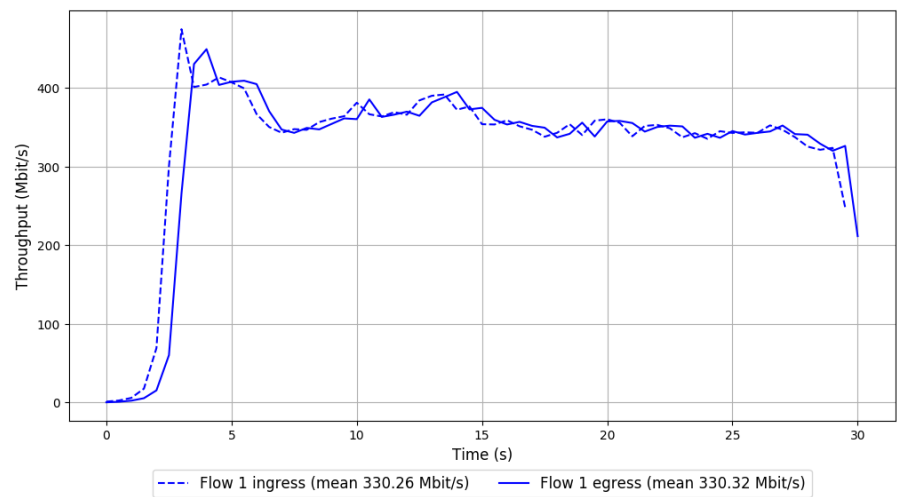


Run 4: Statistics of PCC-Vivace

Start at: 2019-07-12 22:47:47
End at: 2019-07-12 22:48:17
Local clock offset: -0.052 ms
Remote clock offset: -0.522 ms

Below is generated by plot.py at 2019-07-13 01:45:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 330.32 Mbit/s
95th percentile per-packet one-way delay: 65.741 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 330.32 Mbit/s
95th percentile per-packet one-way delay: 65.741 ms
Loss rate: 0.37%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-07-12 23:23:02

End at: 2019-07-12 23:23:32

Local clock offset: 0.364 ms

Remote clock offset: -0.186 ms

Below is generated by plot.py at 2019-07-13 01:45:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 292.44 Mbit/s

95th percentile per-packet one-way delay: 74.982 ms

Loss rate: 0.51%

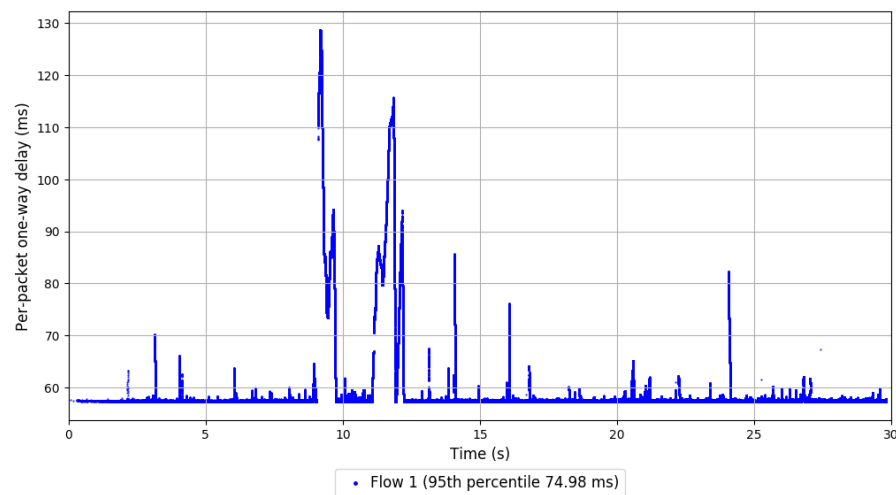
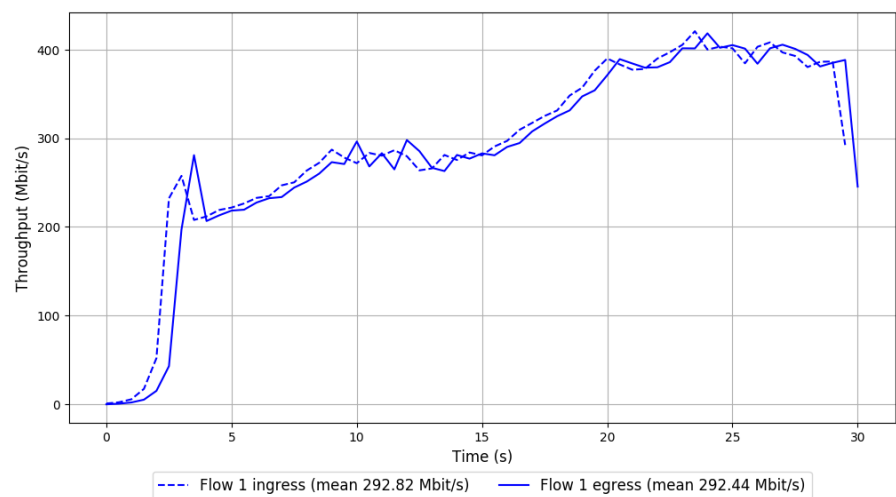
-- Flow 1:

Average throughput: 292.44 Mbit/s

95th percentile per-packet one-way delay: 74.982 ms

Loss rate: 0.51%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

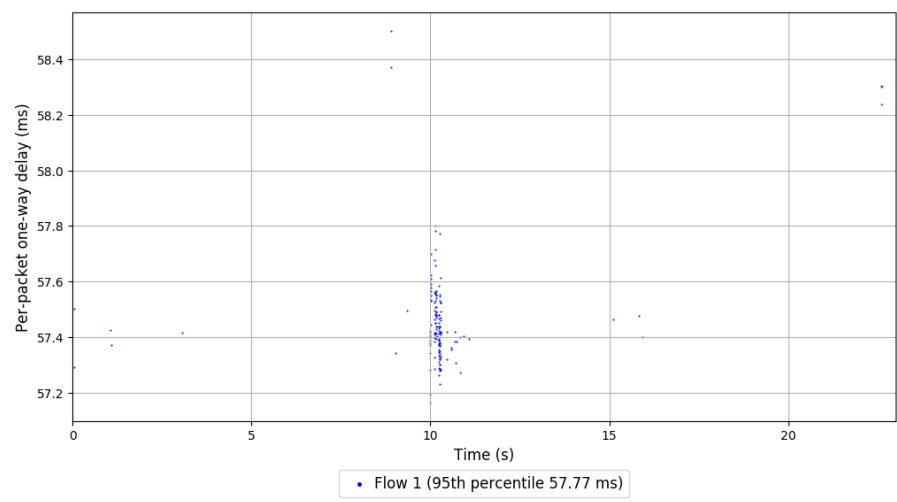
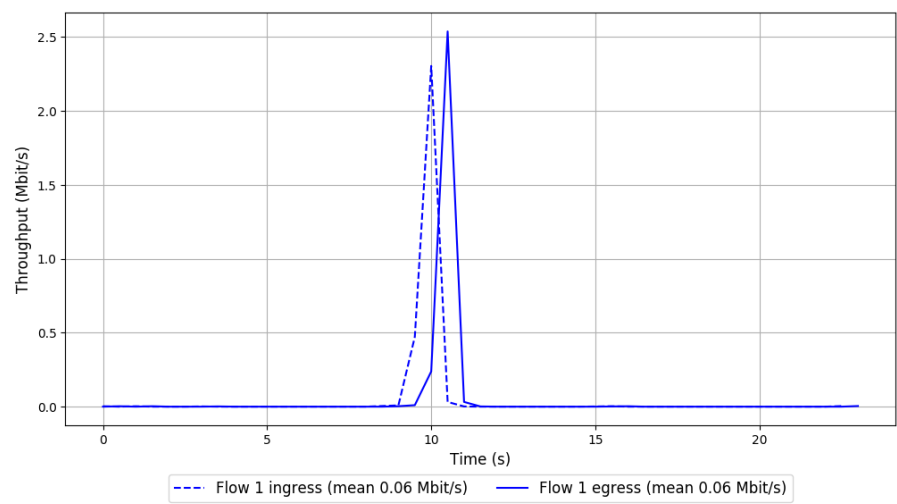
Start at: 2019-07-12 21:04:13

End at: 2019-07-12 21:04:43

Local clock offset: 0.244 ms

Remote clock offset: -0.235 ms

Run 1: Report of WebRTC media — Data Link

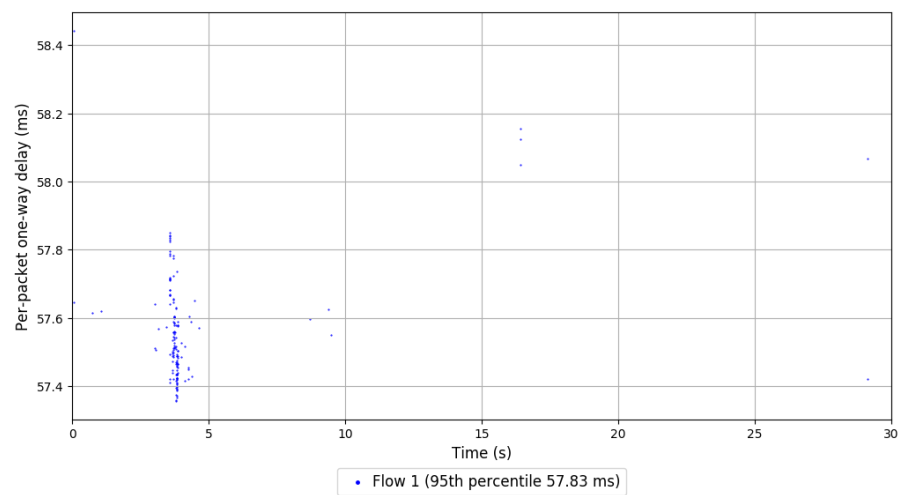
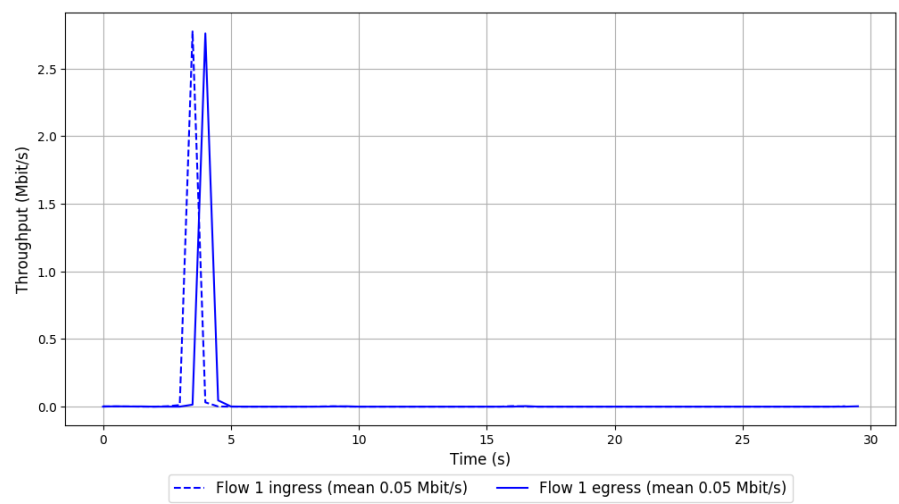


Run 2: Statistics of WebRTC media

Start at: 2019-07-12 21:39:18
End at: 2019-07-12 21:39:48
Local clock offset: -0.013 ms
Remote clock offset: -0.507 ms

Below is generated by plot.py at 2019-07-13 01:45:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 57.834 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 57.834 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

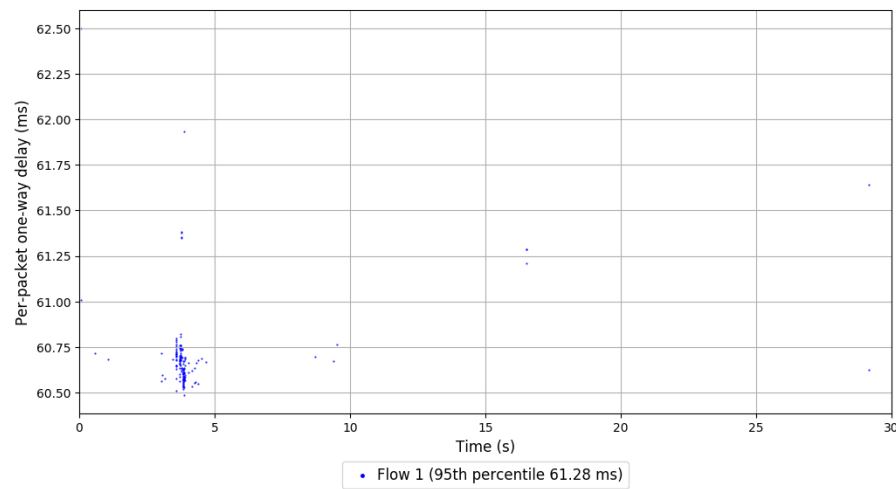
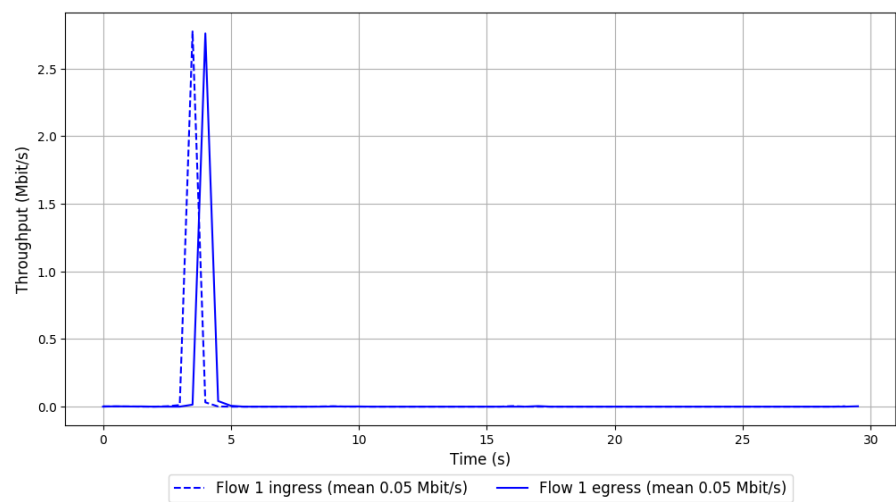


Run 3: Statistics of WebRTC media

Start at: 2019-07-12 22:14:28
End at: 2019-07-12 22:14:58
Local clock offset: 0.106 ms
Remote clock offset: -0.497 ms

Below is generated by plot.py at 2019-07-13 01:45:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 61.284 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 61.284 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

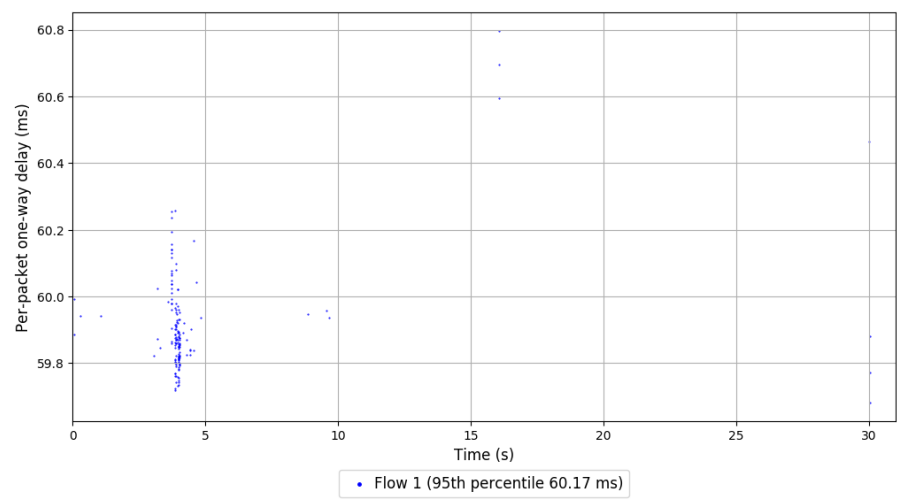
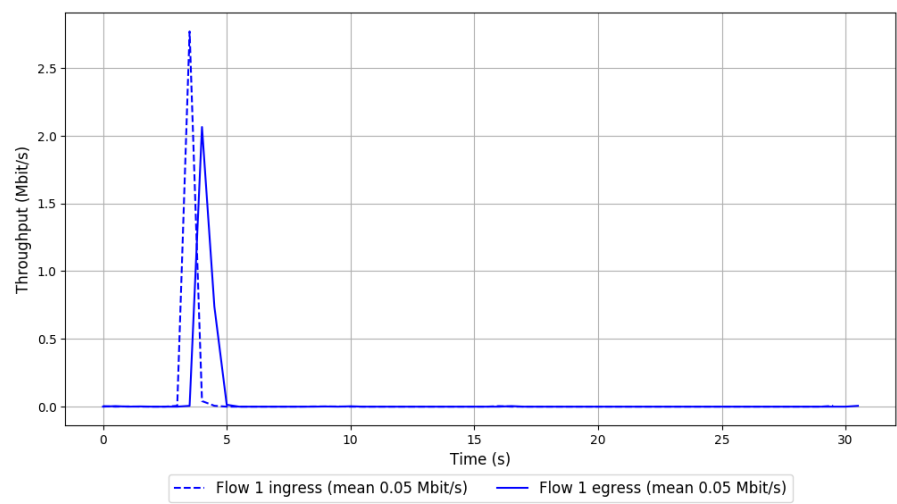


Run 4: Statistics of WebRTC media

Start at: 2019-07-12 22:49:17
End at: 2019-07-12 22:49:47
Local clock offset: -0.499 ms
Remote clock offset: -0.418 ms

Below is generated by plot.py at 2019-07-13 01:45:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 60.166 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 60.166 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-07-12 23:24:30
End at: 2019-07-12 23:25:00
Local clock offset: 0.169 ms
Remote clock offset: -0.239 ms

Below is generated by plot.py at 2019-07-13 01:45:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 57.512 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 57.512 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

