

Pantheon Report

Generated at 2019-02-20 09:52:33 (UTC).

Data path: Colombia cellular on ppp0 (*remote*) → AWS Brazil 2 on ens5 (*local*).

Repeated the test of 21 congestion control schemes 3 times.

Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

NTP offsets were measured against `gps.ntp.br` and have been applied to correct the timestamps in logs.

System info:

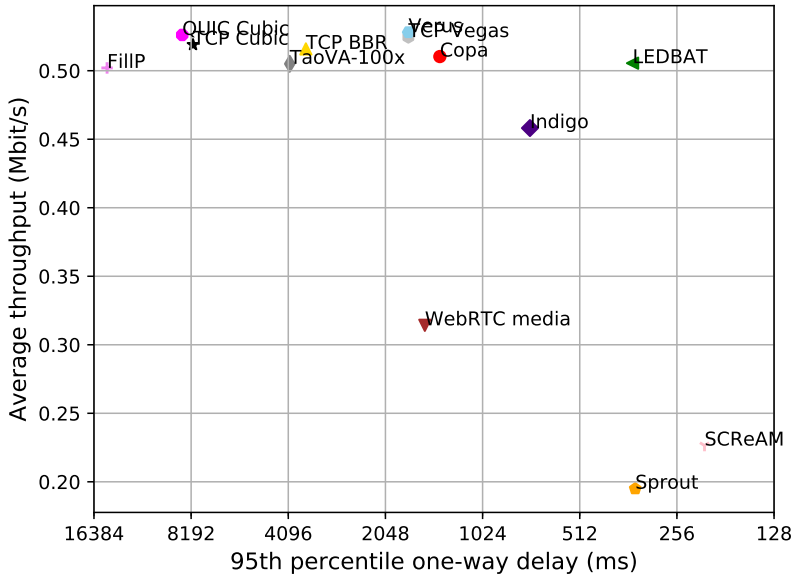
```
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

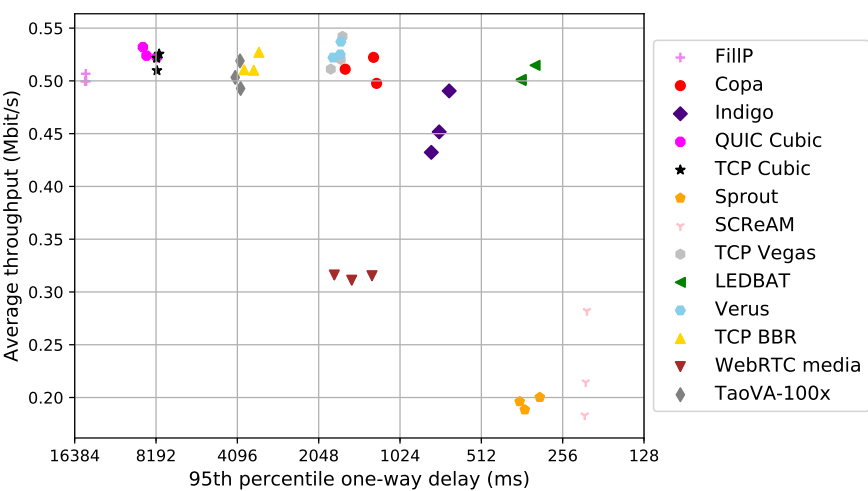
```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
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 Colombia cellular to AWS Brazil 2, 3 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from Colombia cellular to AWS Brazil 2, 3 runs of 30s each per scheme
 3 flows with 10s interval between flows



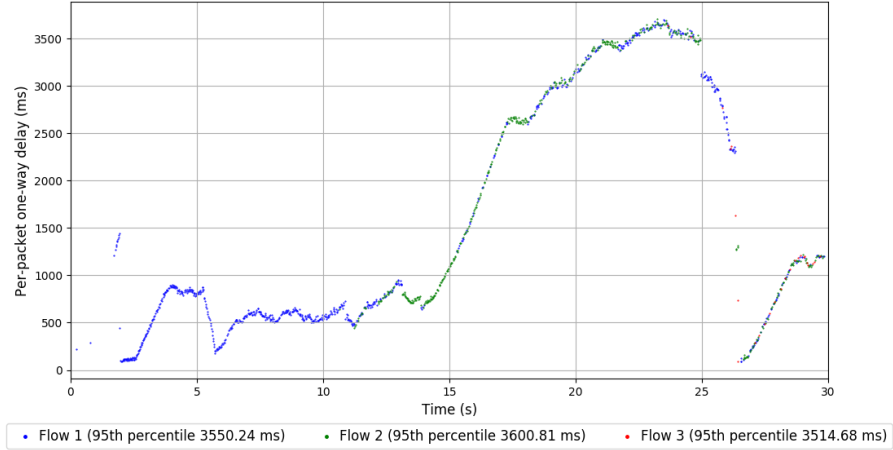
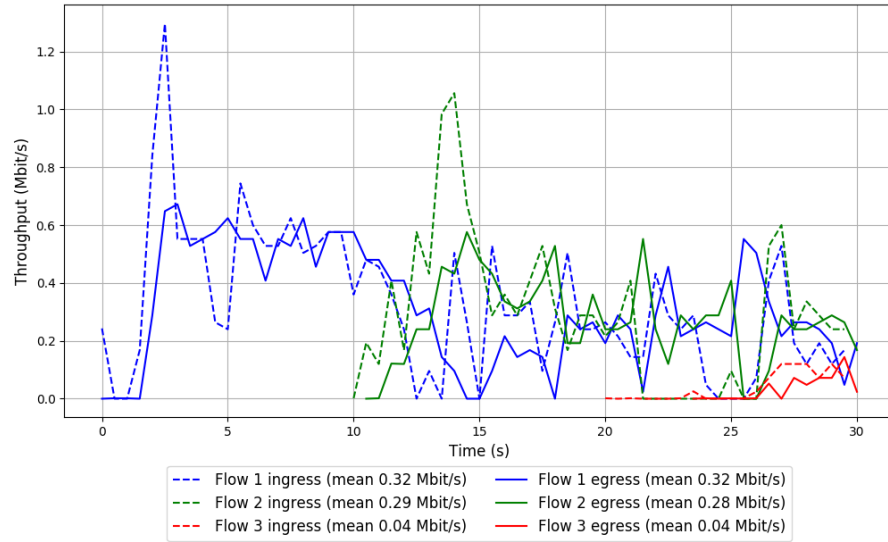
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	3	0.33	0.28	0.03	3588.61	3636.30	3516.39	2.62	5.37	41.83
Copa	3	0.35	0.20	0.11	1349.33	1404.13	1438.77	4.04	7.55	13.85
TCP Cubic	3	0.51	0.02	0.00	8079.20	7218.10	8506.86	30.95	53.66	90.93
FillP	3	0.50	0.01	0.00	14982.00	8398.68	7047.85	25.69	0.00	83.44
FillP-Sheep	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Indigo	3	0.26	0.19	0.23	588.25	720.89	909.36	0.58	1.18	2.48
Indigo-MusesC3	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Indigo-MusesC5	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Indigo-MusesD	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Indigo-MusesT	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LEDBAT	3	0.21	0.34	0.21	298.87	361.24	384.78	0.06	1.36	4.79
PCC-Allegro	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PCC-Expr	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
QUIC Cubic	3	0.52	0.00	0.00	8721.69	8640.77	9189.45	29.60	43.05	77.78
SCReAM	3	0.12	0.10	0.11	195.58	213.49	225.47	0.54	1.10	1.91
Sprout	3	0.09	0.10	0.10	618.06	258.99	338.25	0.98	0.88	1.51
TaoVA-100x	3	0.30	0.23	0.22	3012.13	3949.42	4662.81	4.62	18.54	19.22
TCP Vegas	3	0.33	0.22	0.16	1626.88	1748.41	1802.14	2.60	6.23	21.69
Verus	3	0.52	0.01	0.01	1735.42	1720.67	1788.41	4.64	6.43	12.73
PCC-Vivace	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WebRTC media	3	0.13	0.12	0.07	1496.13	1545.41	1502.13	1.17	0.91	6.52

Run 1: Statistics of TCP BBR

Start at: 2019-02-20 08:39:37
End at: 2019-02-20 08:40:07
Local clock offset: -58.689 ms
Remote clock offset: 8.795 ms

Below is generated by plot.py at 2019-02-20 09:51:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 3562.018 ms
Loss rate: 4.33%
-- Flow 1:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 3550.240 ms
Loss rate: 1.99%
-- Flow 2:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 3600.812 ms
Loss rate: 6.26%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 3514.680 ms
Loss rate: 35.07%

Run 1: Report of TCP BBR — Data Link

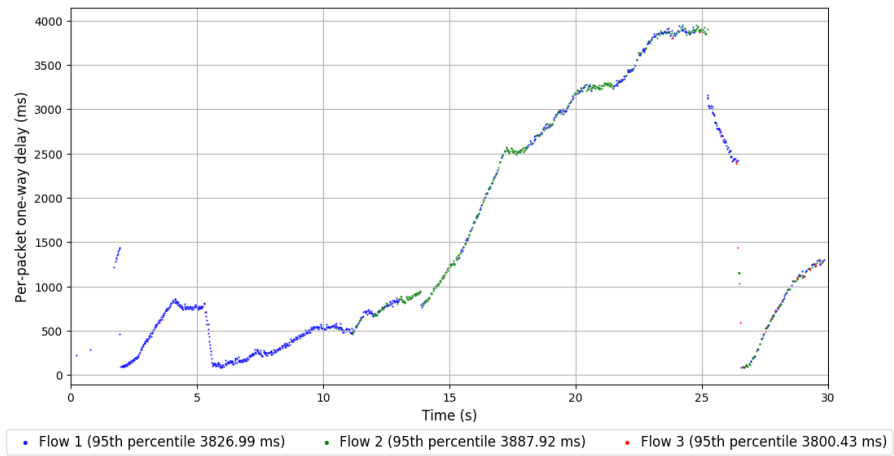
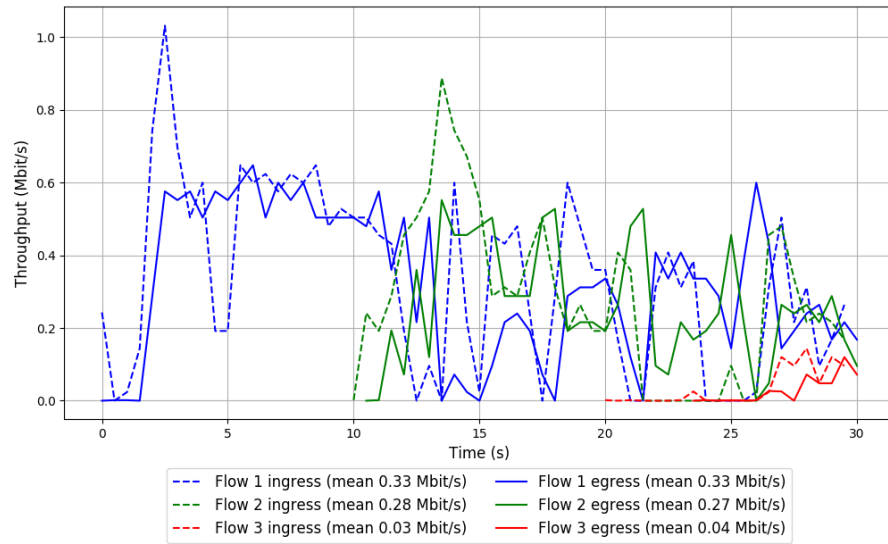


Run 2: Statistics of TCP BBR

Start at: 2019-02-20 09:05:32
End at: 2019-02-20 09:06:02
Local clock offset: -56.997 ms
Remote clock offset: 8.109 ms

Below is generated by plot.py at 2019-02-20 09:51:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 3867.826 ms
Loss rate: 4.40%
-- Flow 1:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 3826.995 ms
Loss rate: 2.53%
-- Flow 2:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 3887.924 ms
Loss rate: 5.65%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 3800.432 ms
Loss rate: 38.78%

Run 2: Report of TCP BBR — Data Link

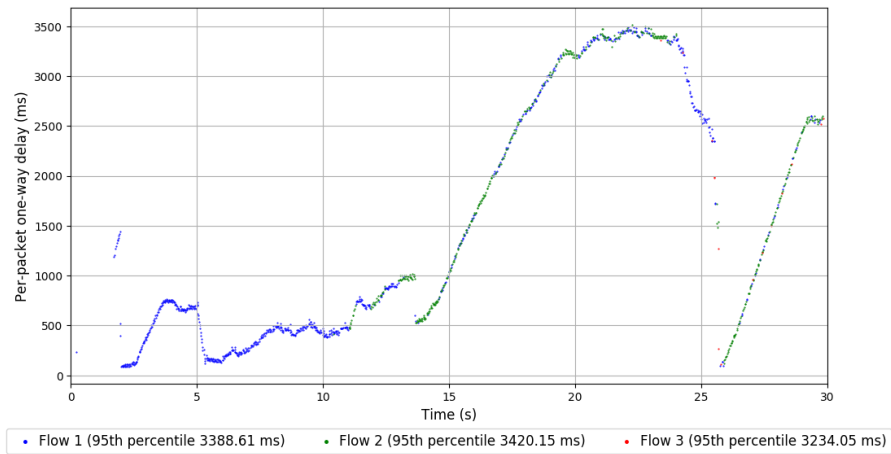
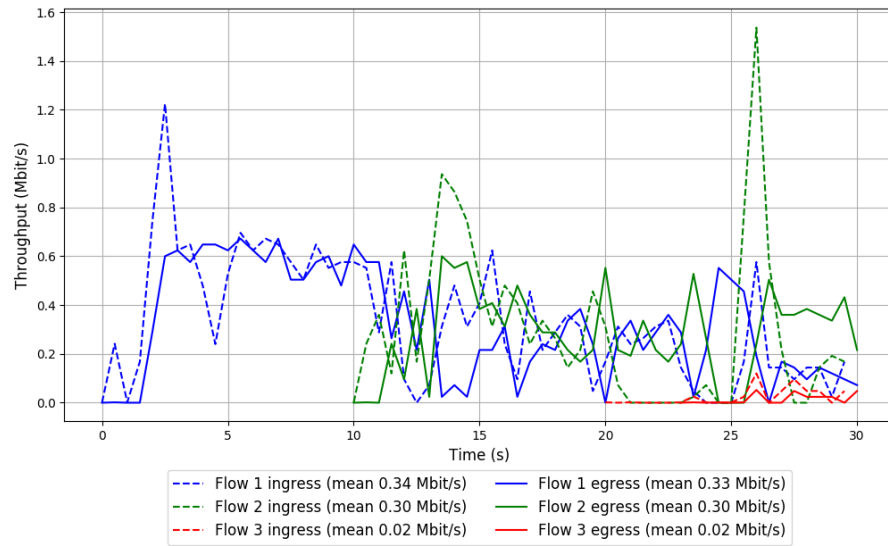


Run 3: Statistics of TCP BBR

Start at: 2019-02-20 09:31:23
End at: 2019-02-20 09:31:53
Local clock offset: -57.663 ms
Remote clock offset: 6.935 ms

Below is generated by plot.py at 2019-02-20 09:51:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 3408.692 ms
Loss rate: 4.34%
-- Flow 1:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 3388.610 ms
Loss rate: 3.34%
-- Flow 2:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 3420.151 ms
Loss rate: 4.20%
-- Flow 3:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 3234.054 ms
Loss rate: 51.63%

Run 3: Report of TCP BBR — Data Link

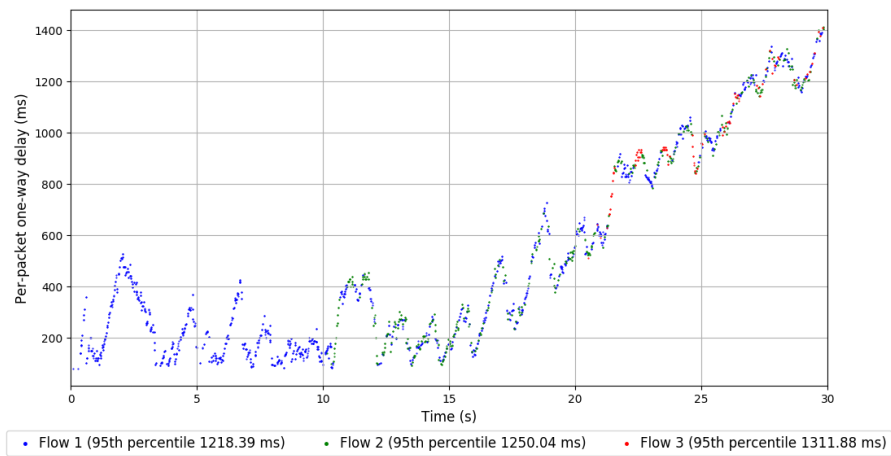
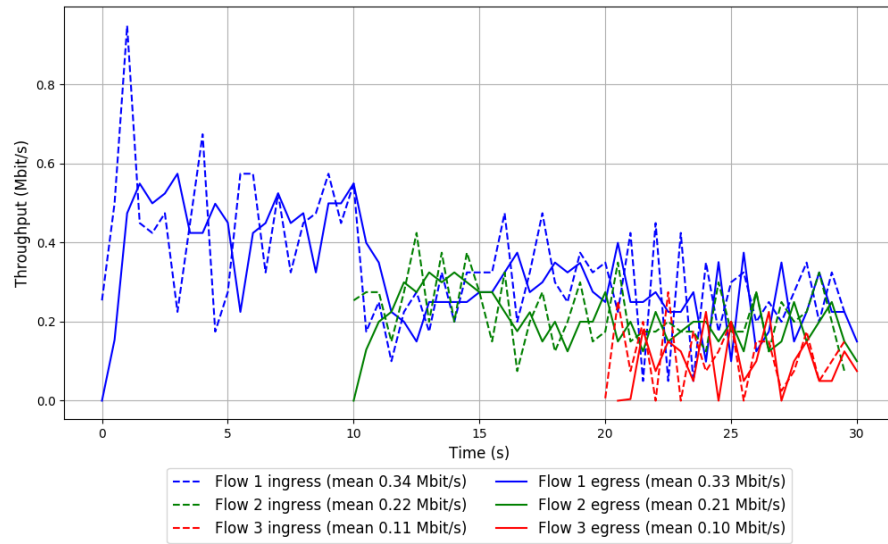


Run 1: Statistics of Copa

Start at: 2019-02-20 08:50:43
End at: 2019-02-20 08:51:13
Local clock offset: -57.256 ms
Remote clock offset: 3.888 ms

Below is generated by plot.py at 2019-02-20 09:51:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 1250.180 ms
Loss rate: 5.72%
-- Flow 1:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 1218.391 ms
Loss rate: 4.06%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 1250.039 ms
Loss rate: 7.30%
-- Flow 3:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 1311.885 ms
Loss rate: 14.39%

Run 1: Report of Copa — Data Link

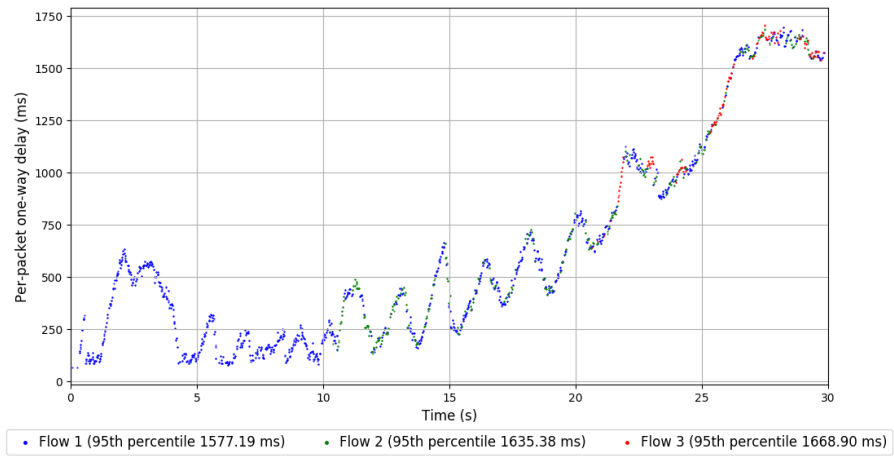
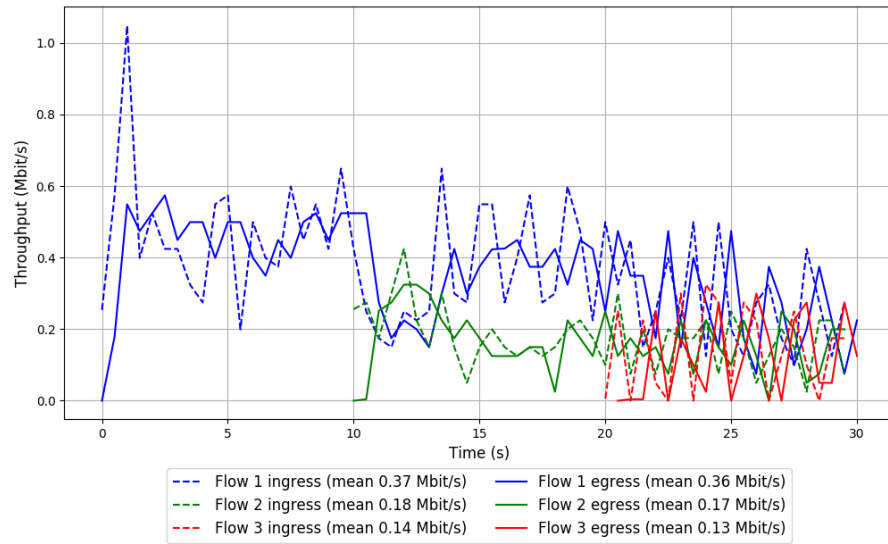


Run 2: Statistics of Copa

Start at: 2019-02-20 09:16:37
End at: 2019-02-20 09:17:07
Local clock offset: -57.221 ms
Remote clock offset: 6.778 ms

Below is generated by plot.py at 2019-02-20 09:51:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 1633.769 ms
Loss rate: 5.65%
-- Flow 1:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 1577.189 ms
Loss rate: 4.01%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 1635.380 ms
Loss rate: 7.79%
-- Flow 3:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 1668.903 ms
Loss rate: 13.35%

Run 2: Report of Copa — Data Link

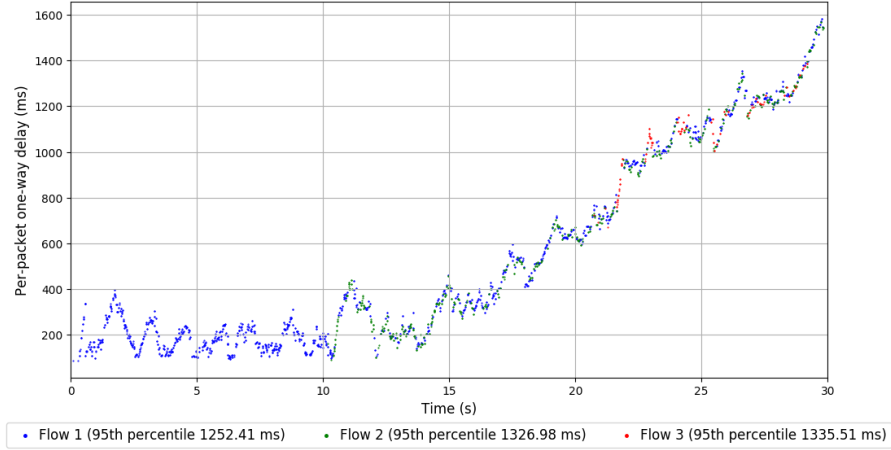
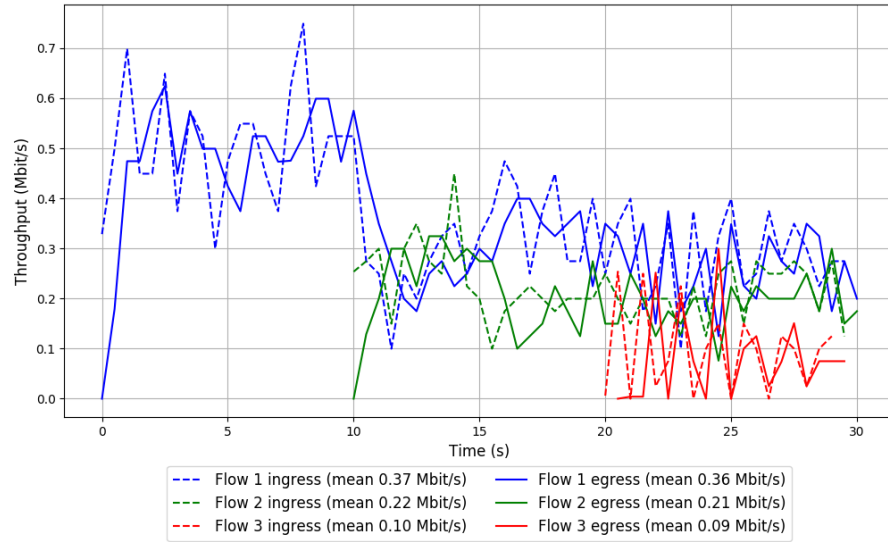


Run 3: Statistics of Copa

Start at: 2019-02-20 09:42:28
End at: 2019-02-20 09:42:58
Local clock offset: -60.903 ms
Remote clock offset: 1.555 ms

```
# Below is generated by plot.py at 2019-02-20 09:51:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 1283.187 ms
Loss rate: 5.54%
-- Flow 1:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 1252.409 ms
Loss rate: 4.05%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 1326.983 ms
Loss rate: 7.56%
-- Flow 3:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 1335.511 ms
Loss rate: 13.81%
```

Run 3: Report of Copa — Data Link

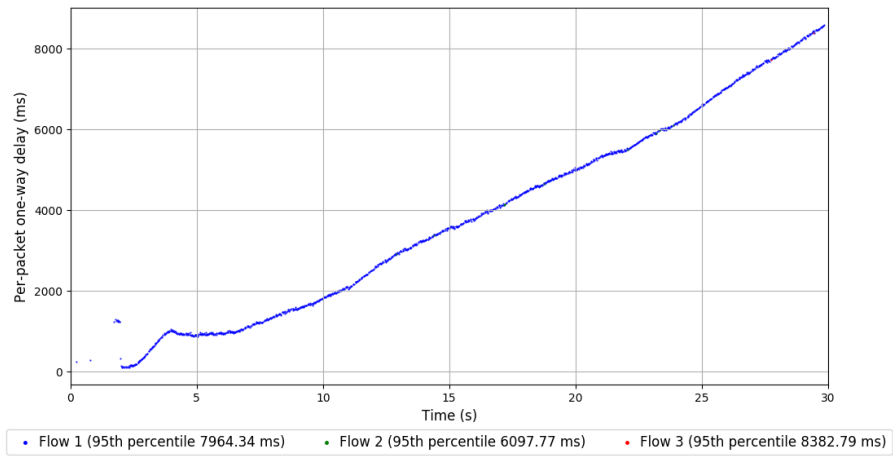
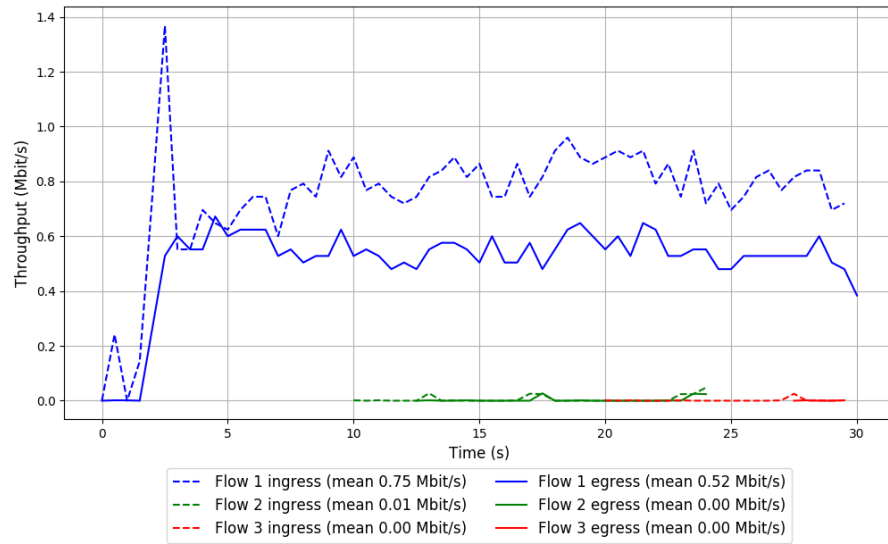


Run 1: Statistics of TCP Cubic

Start at: 2019-02-20 08:38:23
End at: 2019-02-20 08:38:53
Local clock offset: -58.838 ms
Remote clock offset: 6.368 ms

Below is generated by plot.py at 2019-02-20 09:51:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 7975.002 ms
Loss rate: 31.17%
-- Flow 1:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 7964.338 ms
Loss rate: 31.04%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 6097.770 ms
Loss rate: 53.86%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 8382.794 ms
Loss rate: 91.06%

Run 1: Report of TCP Cubic — Data Link

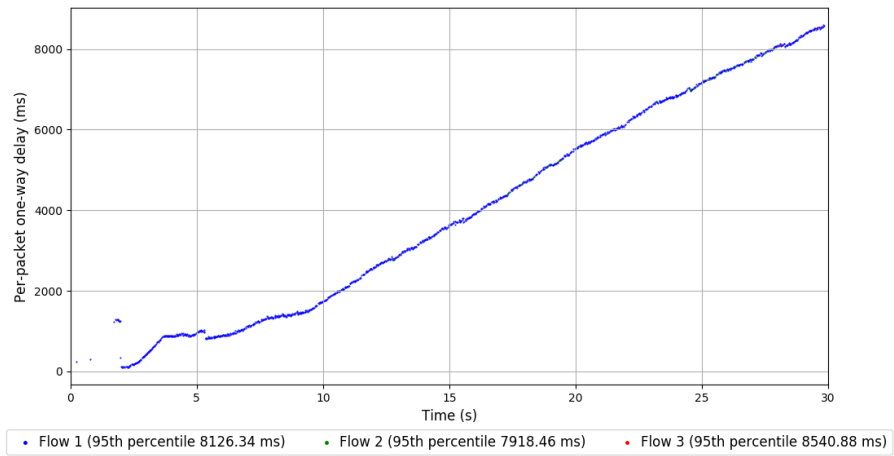
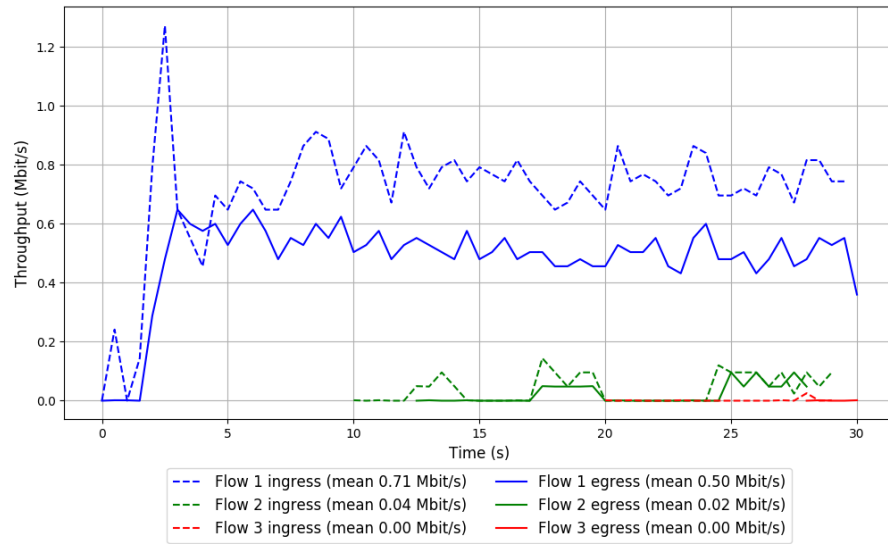


Run 2: Statistics of TCP Cubic

Start at: 2019-02-20 09:04:18
End at: 2019-02-20 09:04:48
Local clock offset: -56.896 ms
Remote clock offset: 3.203 ms

Below is generated by plot.py at 2019-02-20 09:51:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 8126.090 ms
Loss rate: 31.72%
-- Flow 1:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 8126.341 ms
Loss rate: 30.91%
-- Flow 2:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 7918.458 ms
Loss rate: 52.83%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 8540.879 ms
Loss rate: 90.68%

Run 2: Report of TCP Cubic — Data Link

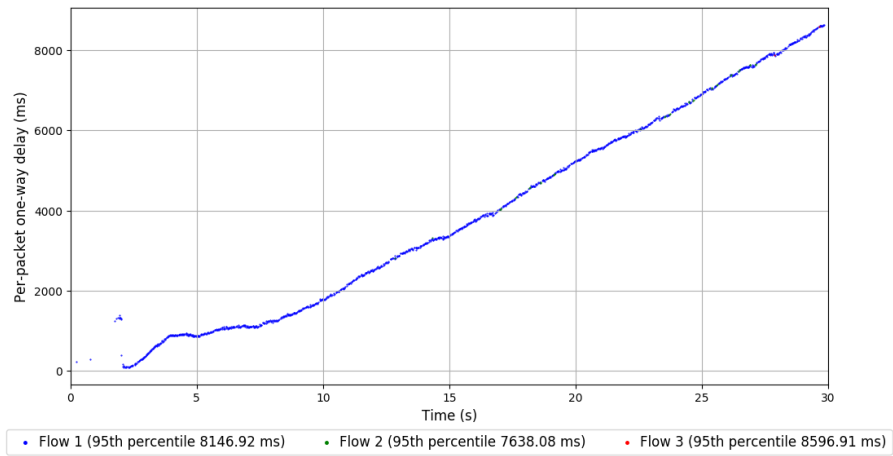
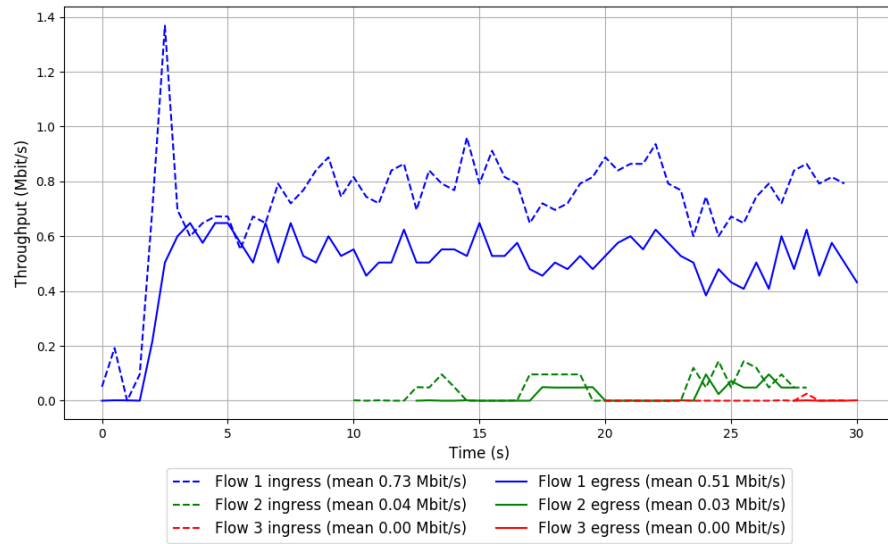


Run 3: Statistics of TCP Cubic

Start at: 2019-02-20 09:30:09
End at: 2019-02-20 09:30:39
Local clock offset: -57.052 ms
Remote clock offset: 7.245 ms

Below is generated by plot.py at 2019-02-20 09:51:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 8144.173 ms
Loss rate: 31.78%
-- Flow 1:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 8146.919 ms
Loss rate: 30.91%
-- Flow 2:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 7638.082 ms
Loss rate: 54.30%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 8596.907 ms
Loss rate: 91.06%

Run 3: Report of TCP Cubic — Data Link

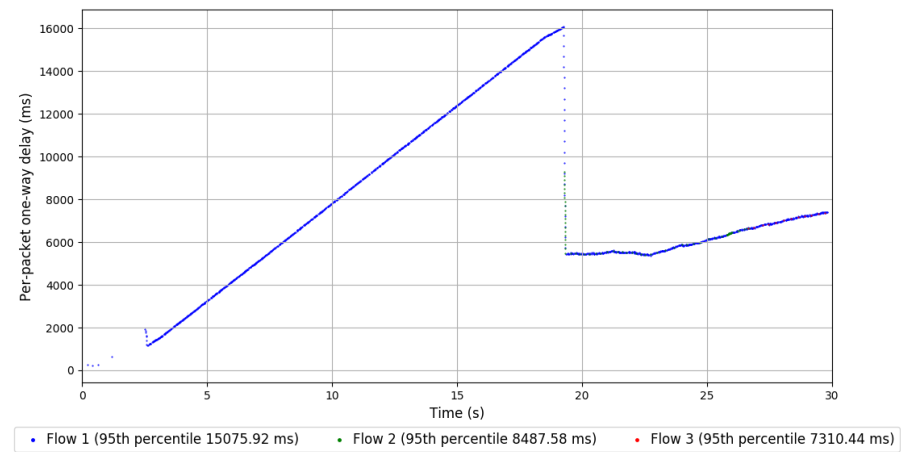
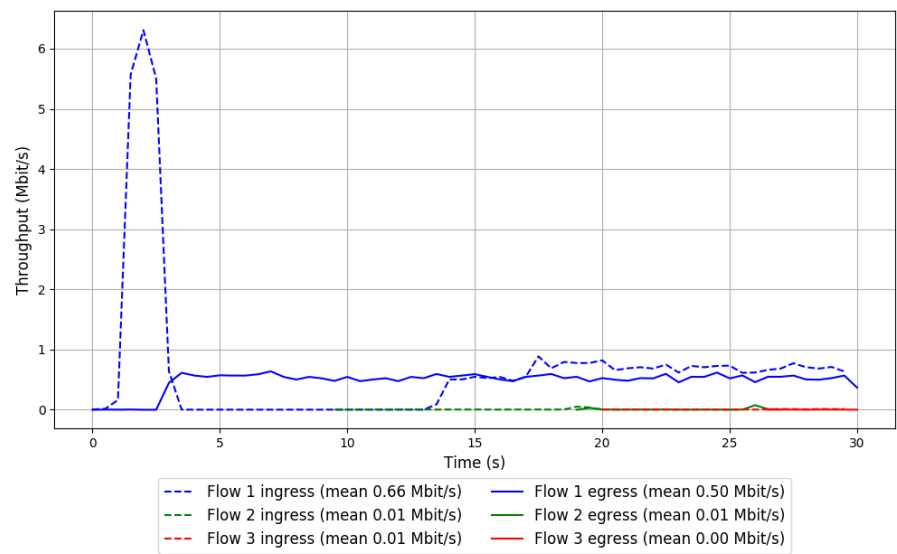


Run 1: Statistics of FillP

Start at: 2019-02-20 08:45:47
End at: 2019-02-20 08:46:17
Local clock offset: -57.687 ms
Remote clock offset: 6.374 ms

Below is generated by plot.py at 2019-02-20 09:51:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 14992.714 ms
Loss rate: 26.29%
-- Flow 1:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 15075.922 ms
Loss rate: 26.23%
-- Flow 2:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 8487.575 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 7310.436 ms
Loss rate: 84.21%

Run 1: Report of FillP — Data Link

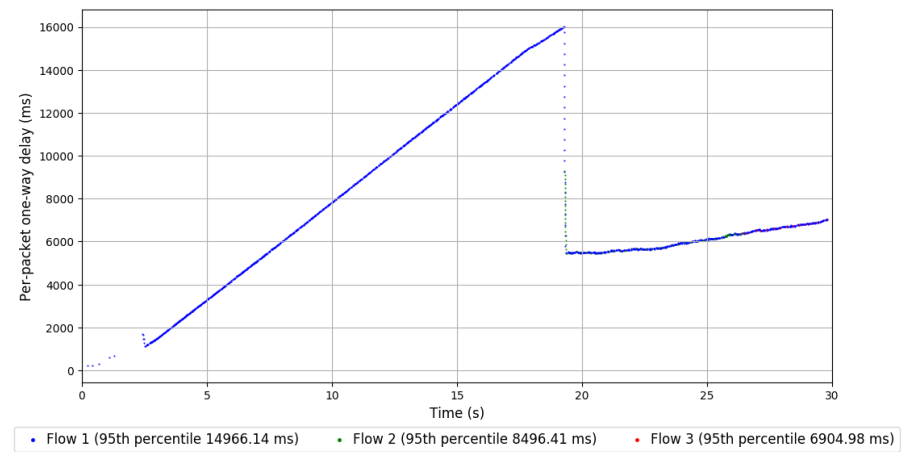
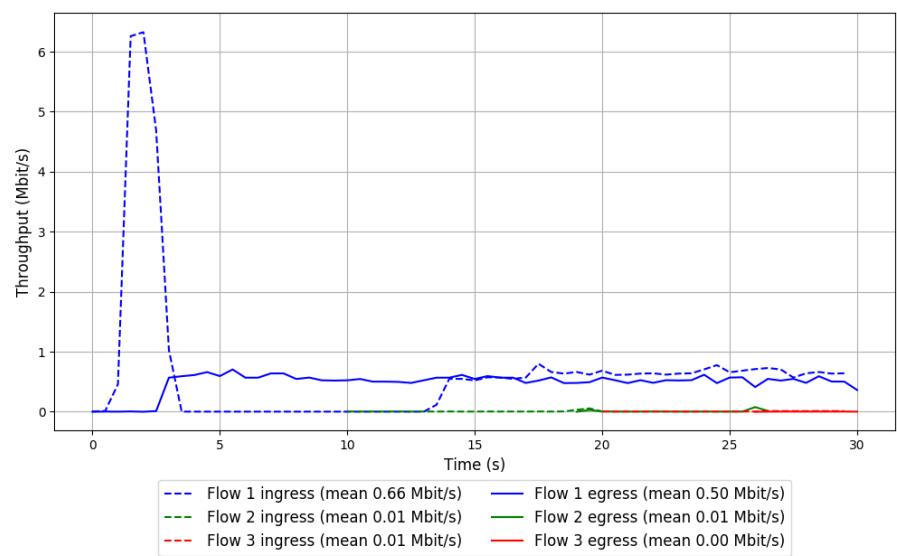


Run 2: Statistics of FillP

Start at: 2019-02-20 09:11:42
End at: 2019-02-20 09:12:12
Local clock offset: -57.303 ms
Remote clock offset: 3.108 ms

Below is generated by plot.py at 2019-02-20 09:51:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 14909.843 ms
Loss rate: 24.41%
-- Flow 1:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 14966.142 ms
Loss rate: 24.32%
-- Flow 2:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 8496.407 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 6904.977 ms
Loss rate: 82.68%

Run 2: Report of FillP — Data Link

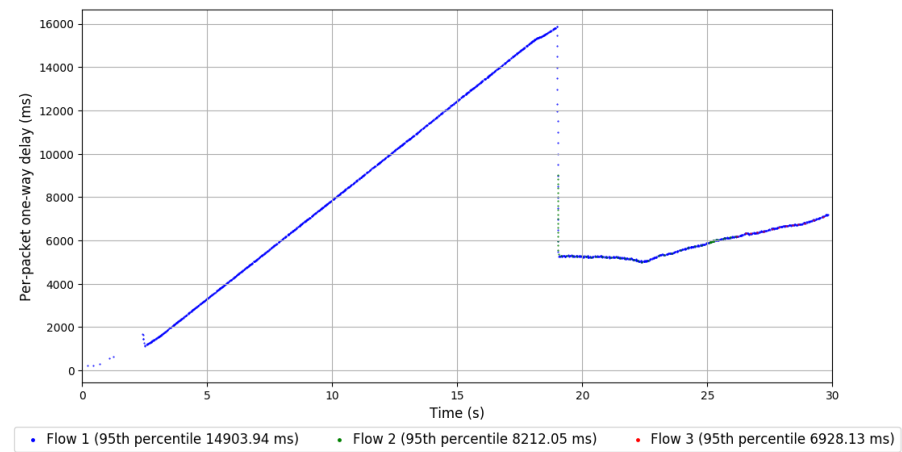
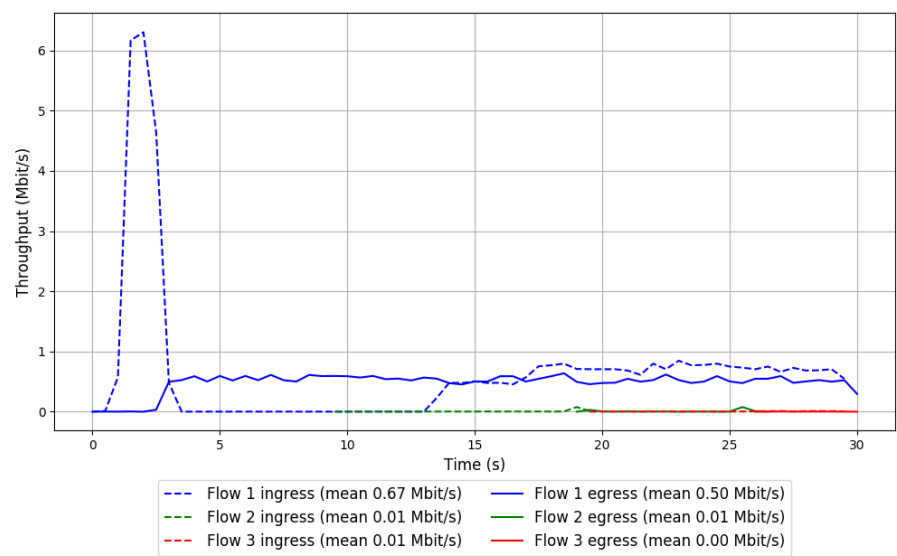


Run 3: Statistics of FillP

Start at: 2019-02-20 09:37:33
End at: 2019-02-20 09:38:03
Local clock offset: -60.029 ms
Remote clock offset: 2.134 ms

Below is generated by plot.py at 2019-02-20 09:51:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 14859.619 ms
Loss rate: 26.58%
-- Flow 1:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 14903.936 ms
Loss rate: 26.51%
-- Flow 2:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 8212.047 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 6928.130 ms
Loss rate: 83.42%

Run 3: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

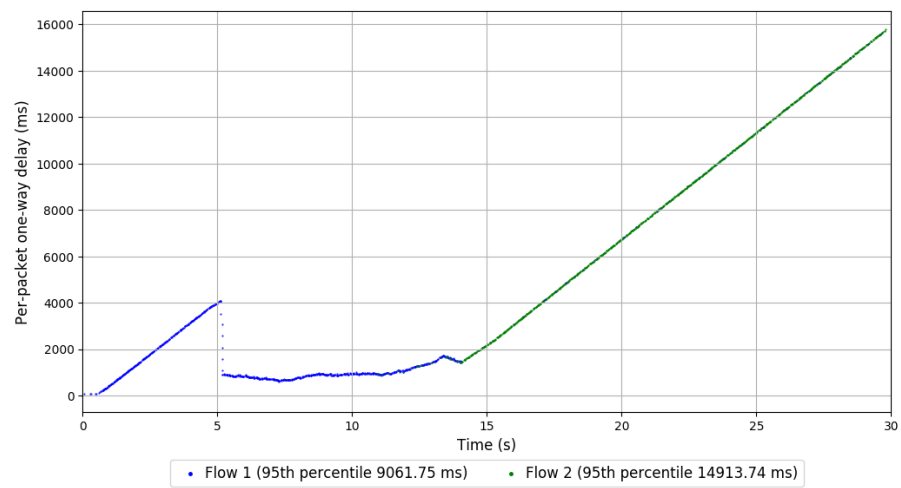
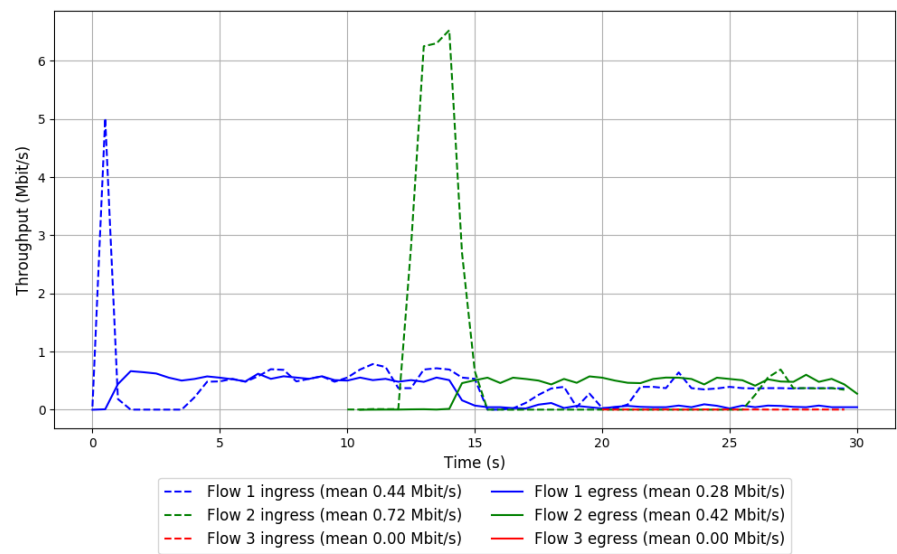
Start at: 2019-02-20 08:37:09

End at: 2019-02-20 08:37:39

Local clock offset: -59.233 ms

Remote clock offset: 8.558 ms

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

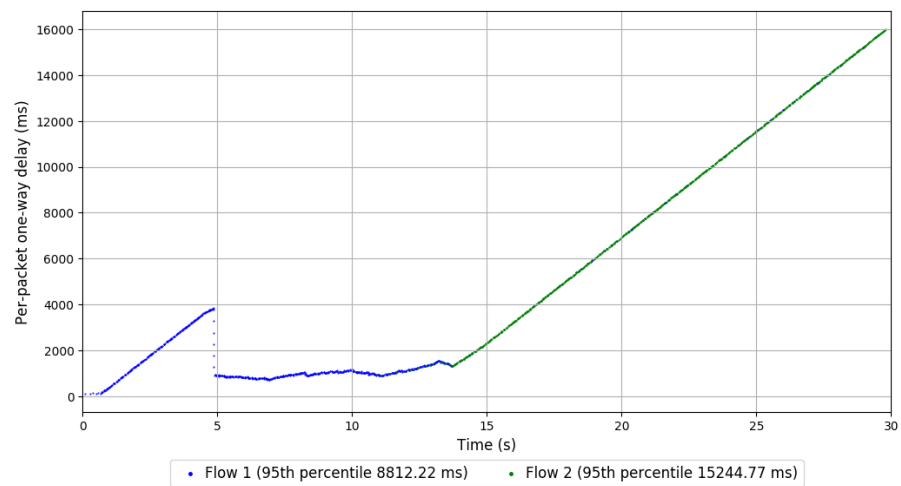
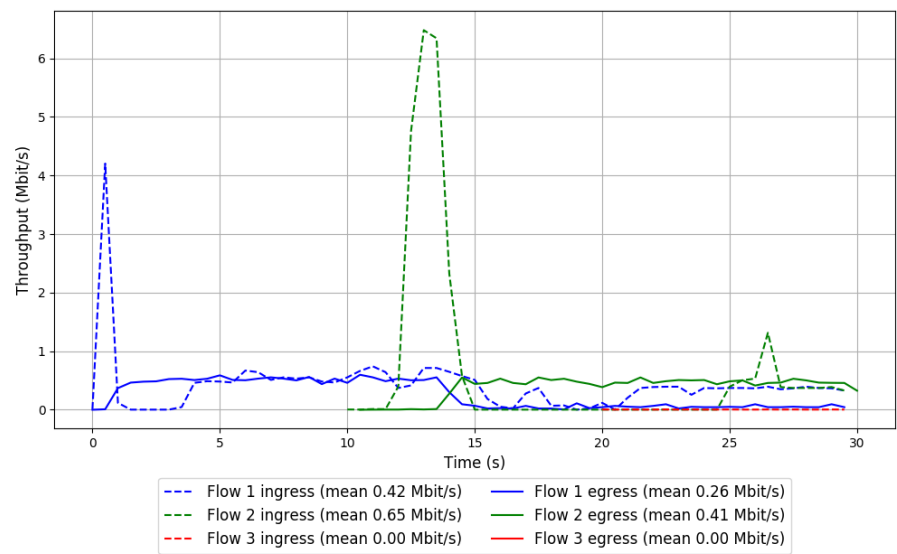
Start at: 2019-02-20 09:03:04

End at: 2019-02-20 09:03:34

Local clock offset: -56.836 ms

Remote clock offset: 2.982 ms

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

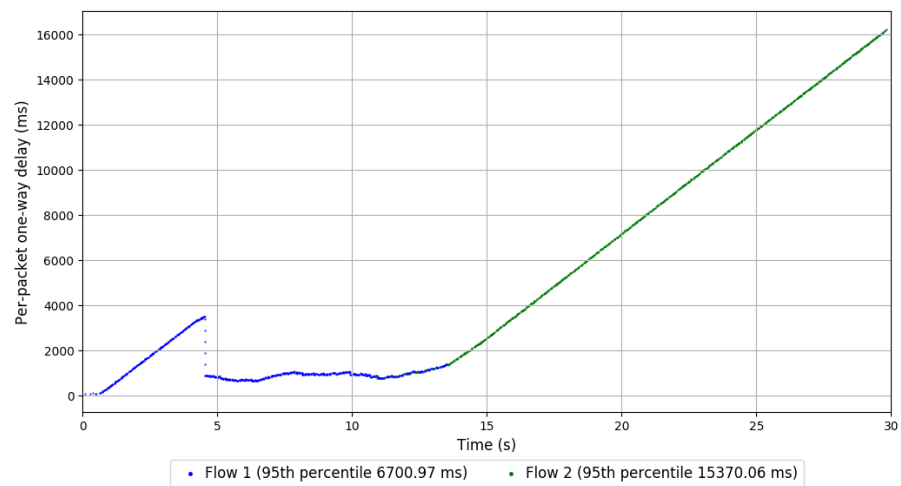
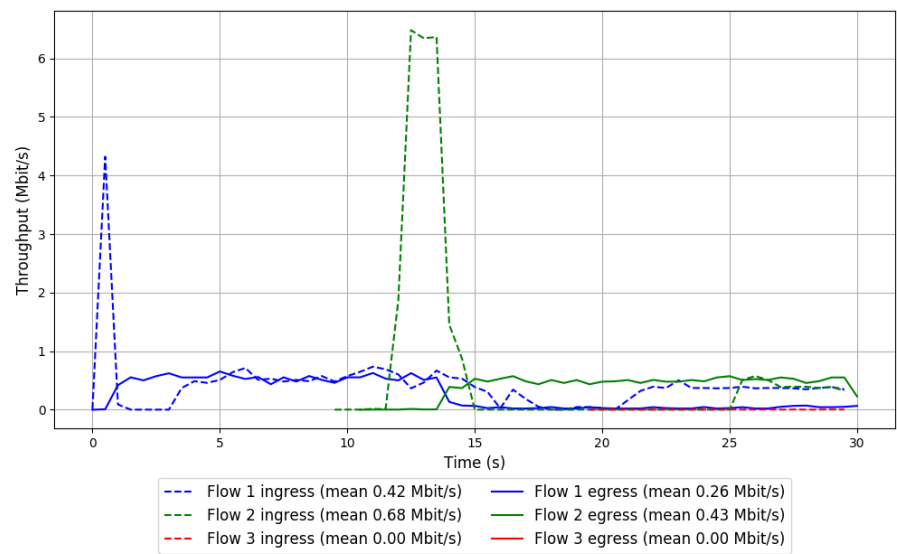
Start at: 2019-02-20 09:28:55

End at: 2019-02-20 09:29:25

Local clock offset: -57.03 ms

Remote clock offset: 7.43 ms

Run 3: Report of FillP-Sheep — Data Link

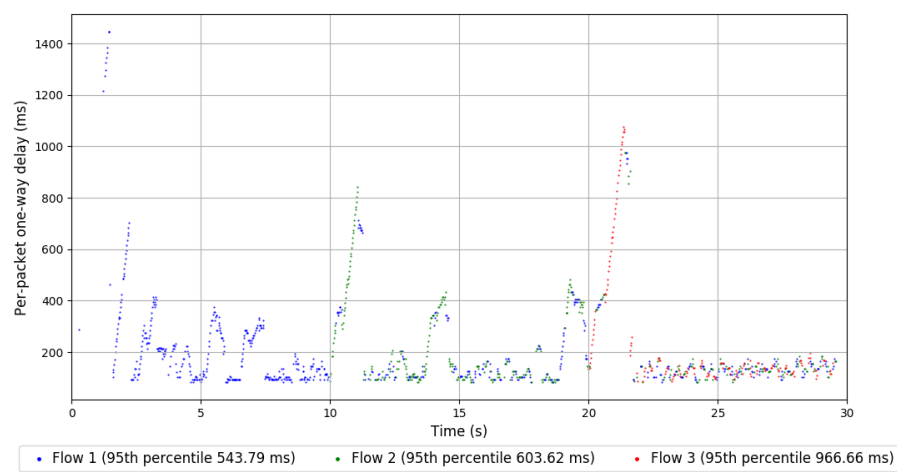
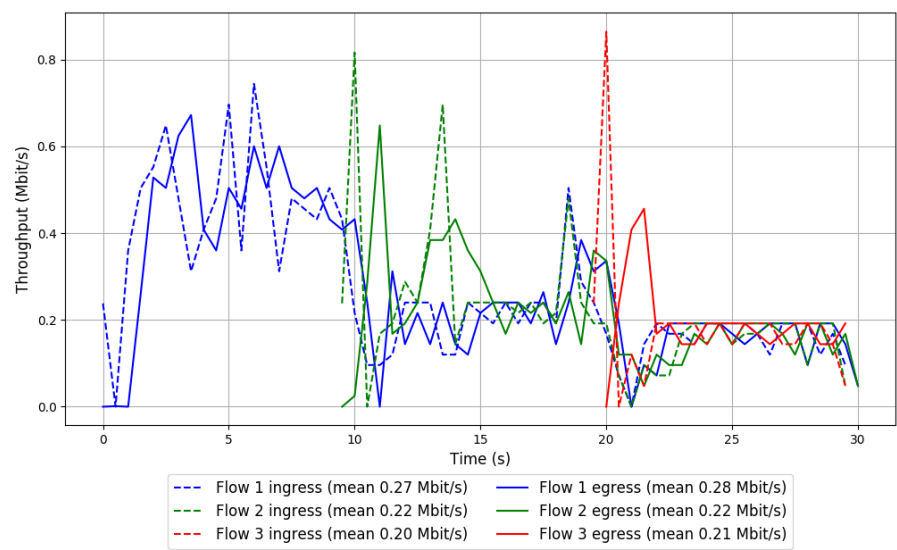


Run 1: Statistics of Indigo

Start at: 2019-02-20 08:51:57
End at: 2019-02-20 08:52:27
Local clock offset: -57.051 ms
Remote clock offset: 2.691 ms

Below is generated by plot.py at 2019-02-20 09:51:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 673.560 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 543.790 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 603.617 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 966.659 ms
Loss rate: 2.43%

Run 1: Report of Indigo — Data Link

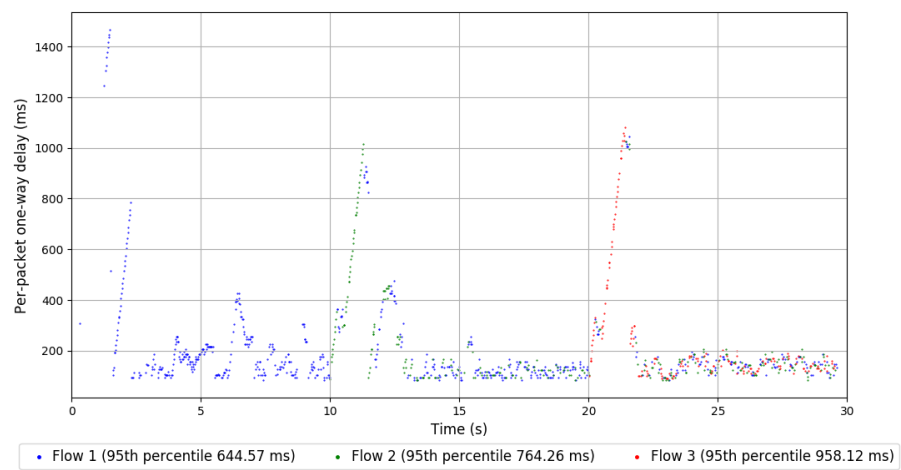
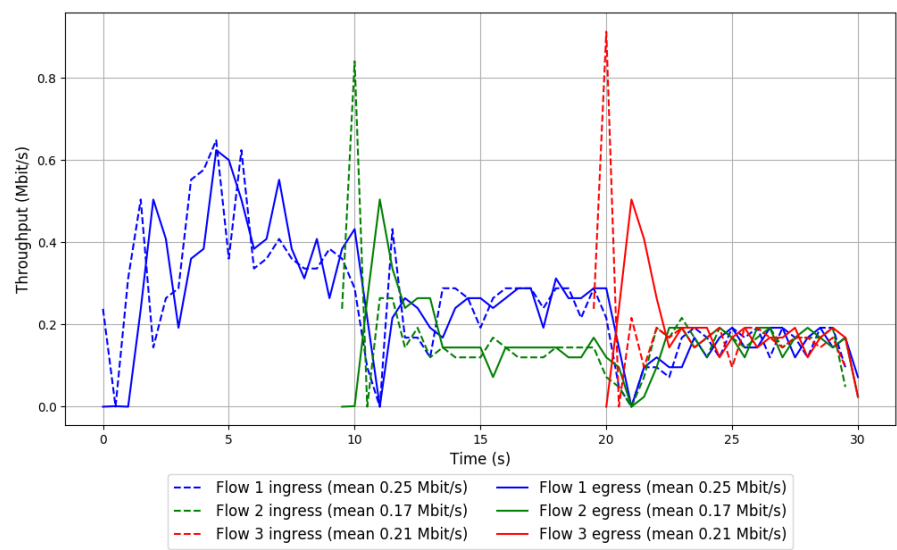


Run 2: Statistics of Indigo

Start at: 2019-02-20 09:17:51
End at: 2019-02-20 09:18:21
Local clock offset: -57.309 ms
Remote clock offset: 1.407 ms

Below is generated by plot.py at 2019-02-20 09:51:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 784.343 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 644.574 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 764.265 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 958.116 ms
Loss rate: 2.37%

Run 2: Report of Indigo — Data Link

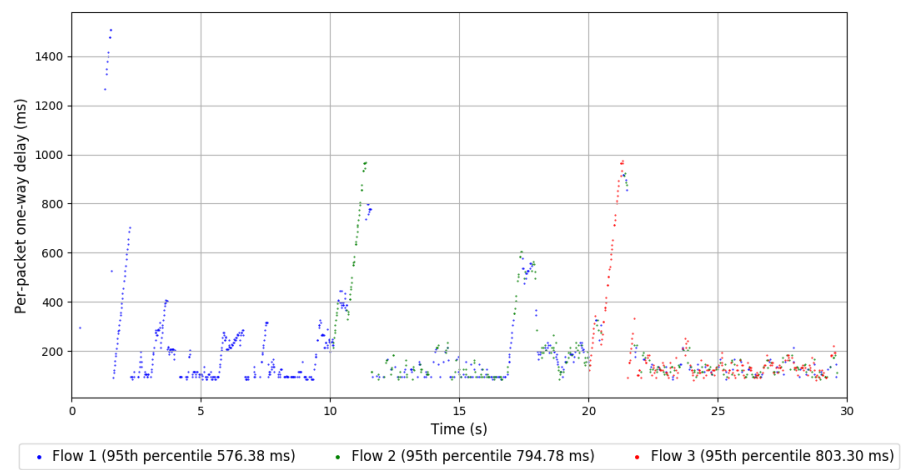
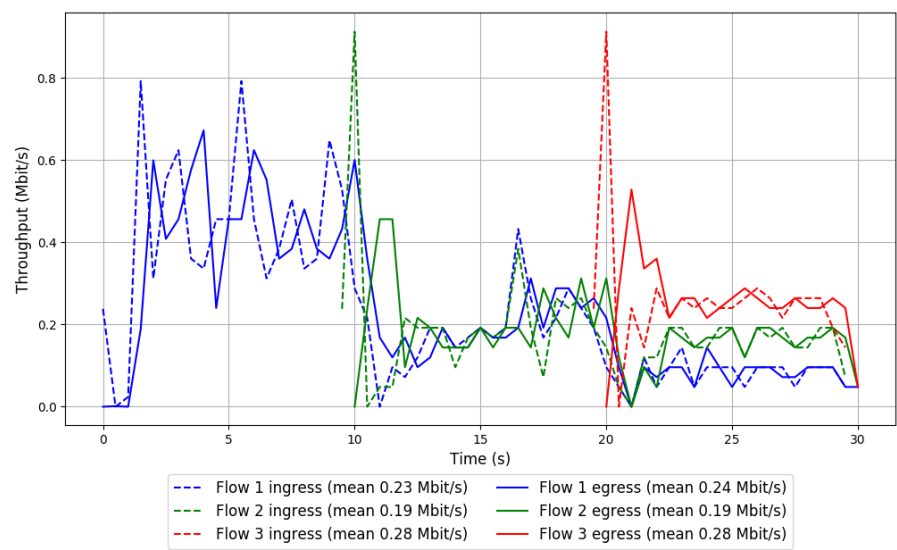


Run 3: Statistics of Indigo

Start at: 2019-02-20 09:43:41
End at: 2019-02-20 09:44:11
Local clock offset: -61.11 ms
Remote clock offset: 7.791 ms

```
# Below is generated by plot.py at 2019-02-20 09:51:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 733.330 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 576.380 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 794.784 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 803.302 ms
Loss rate: 2.64%
```

Run 3: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

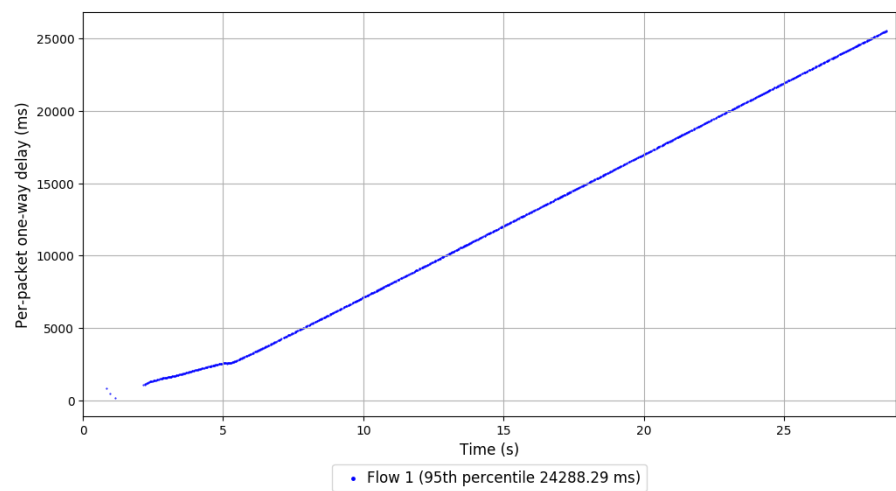
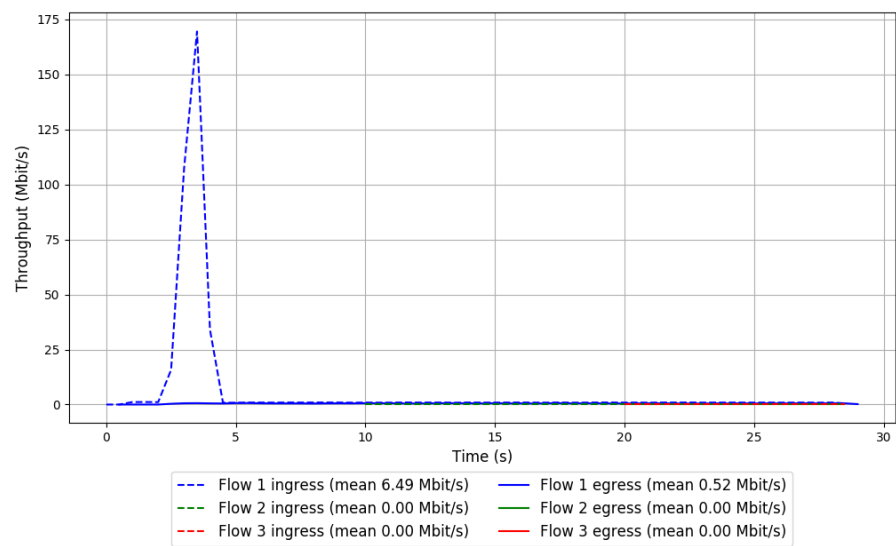
Start at: 2019-02-20 08:35:56

End at: 2019-02-20 08:36:26

Local clock offset: -59.476 ms

Remote clock offset: 2.53 ms

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

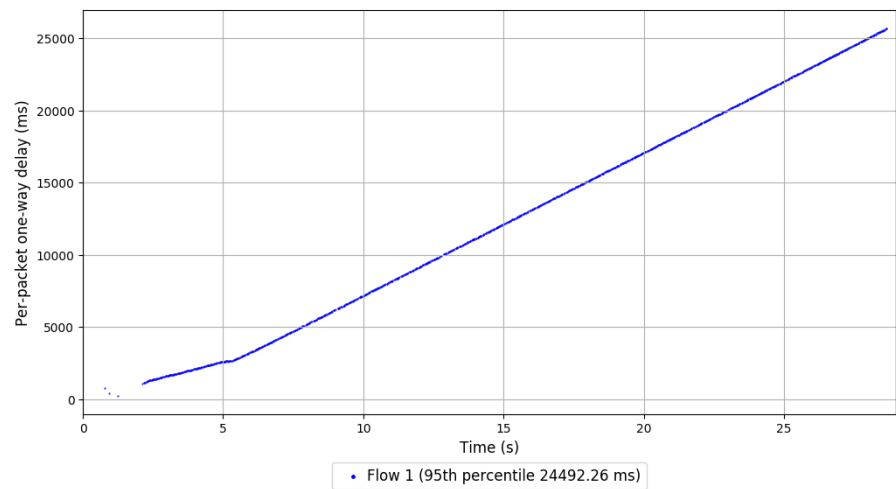
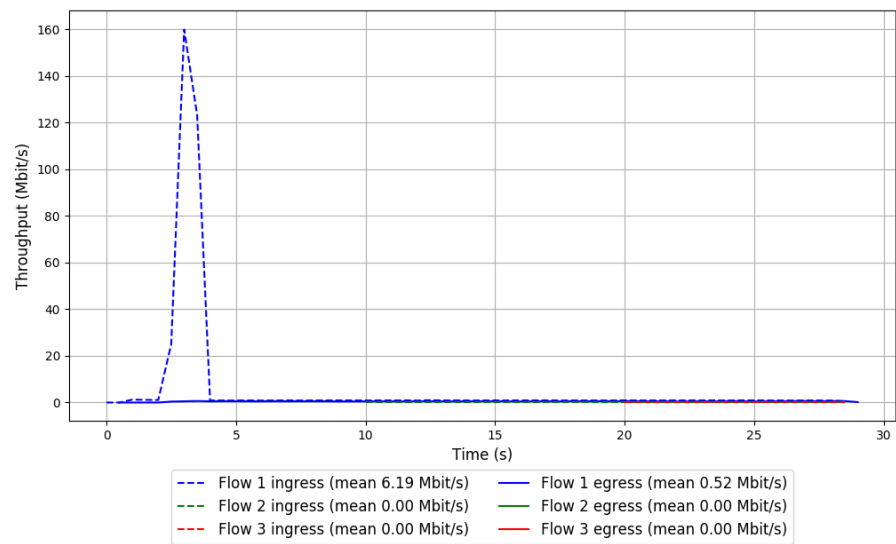
Start at: 2019-02-20 09:01:49

End at: 2019-02-20 09:02:19

Local clock offset: -56.705 ms

Remote clock offset: 3.071 ms

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

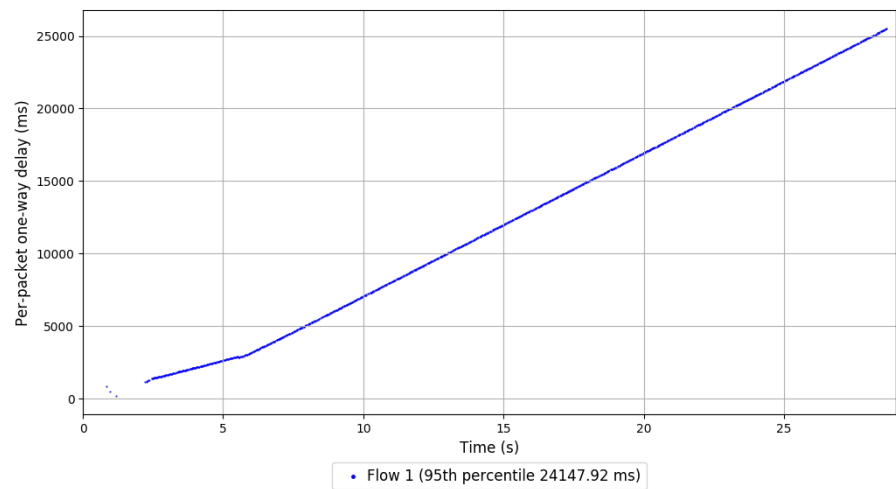
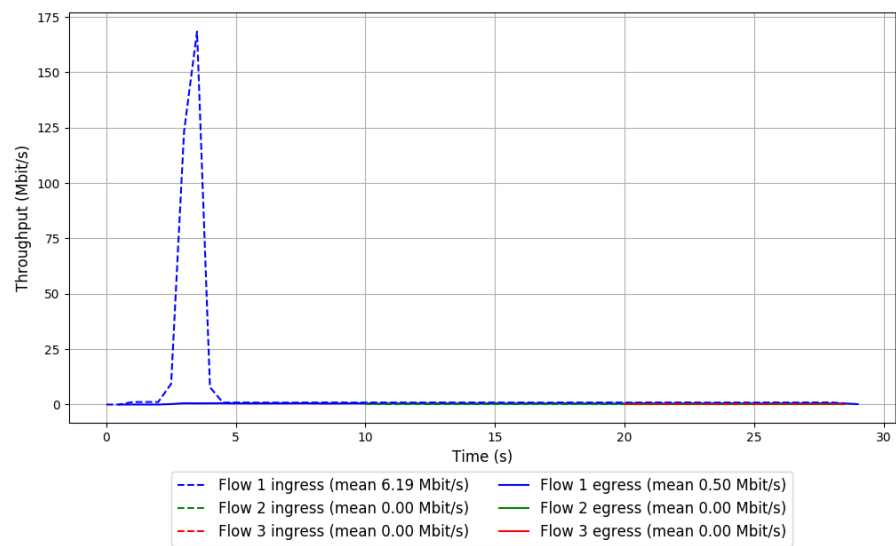
Start at: 2019-02-20 09:27:41

End at: 2019-02-20 09:28:11

Local clock offset: -57.123 ms

Remote clock offset: 1.129 ms

Run 3: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

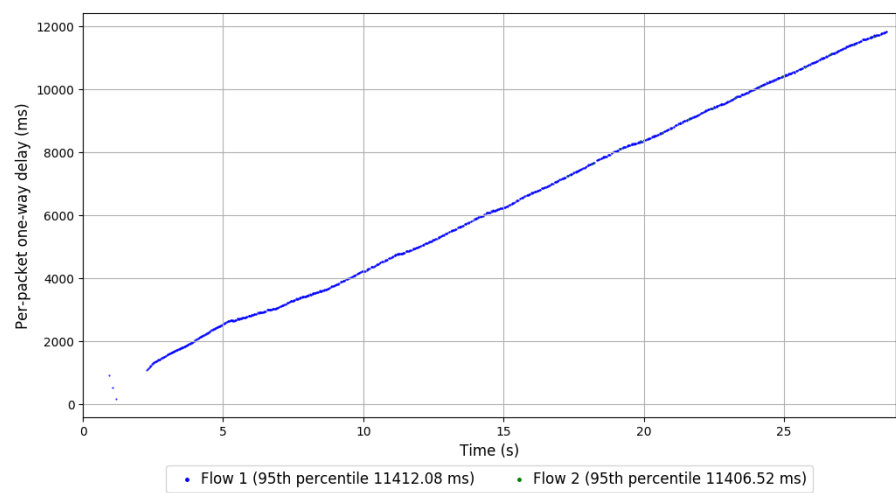
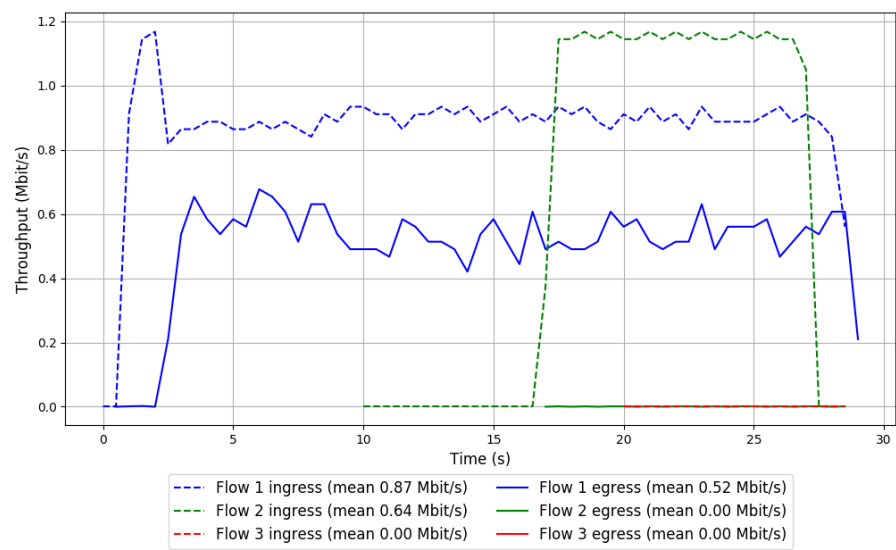
Start at: 2019-02-20 08:34:41

End at: 2019-02-20 08:35:11

Local clock offset: -59.865 ms

Remote clock offset: 3.702 ms

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

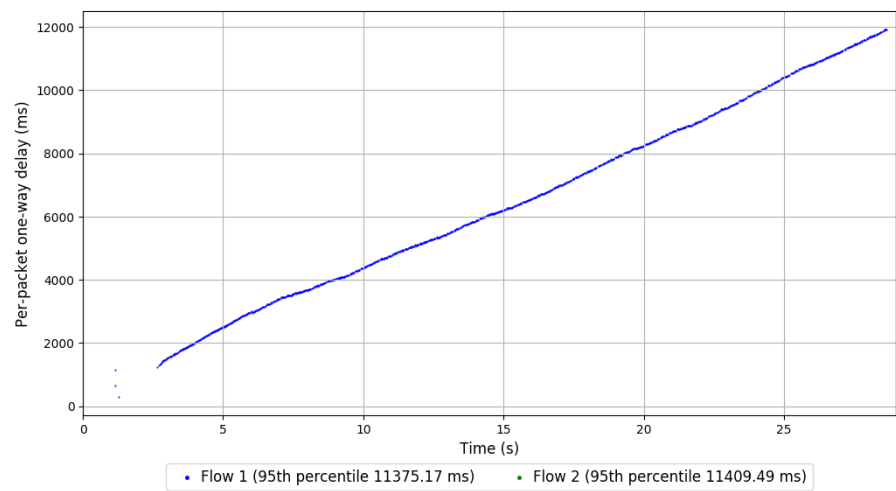
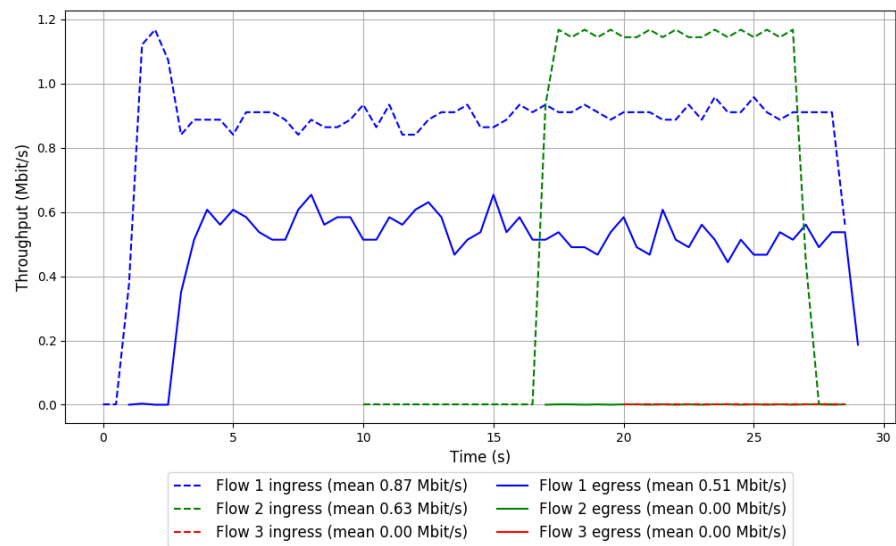
Start at: 2019-02-20 09:00:34

End at: 2019-02-20 09:01:04

Local clock offset: -56.483 ms

Remote clock offset: 2.974 ms

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

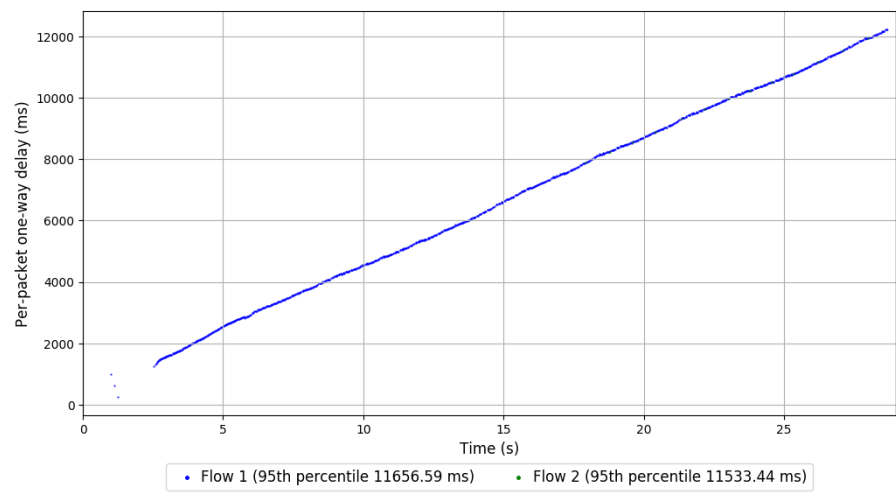
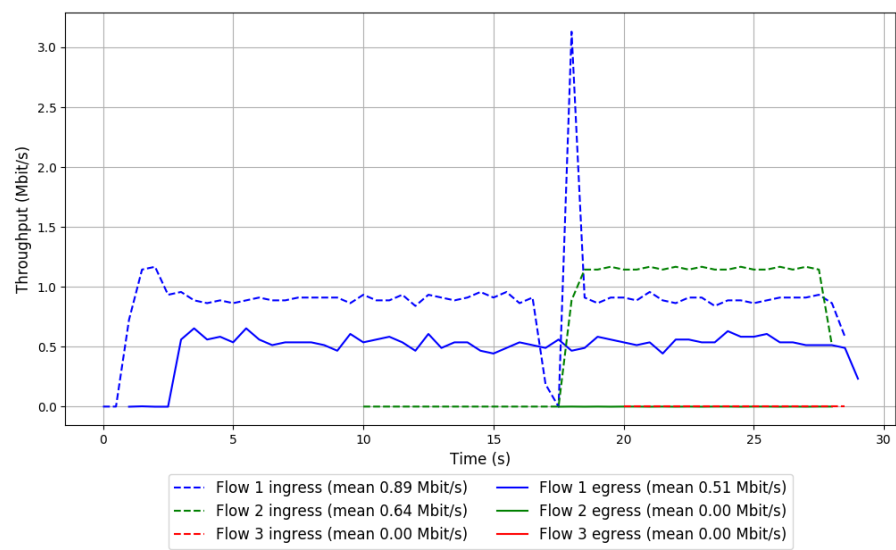
Start at: 2019-02-20 09:26:28

End at: 2019-02-20 09:26:58

Local clock offset: -57.161 ms

Remote clock offset: 1.22 ms

Run 3: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

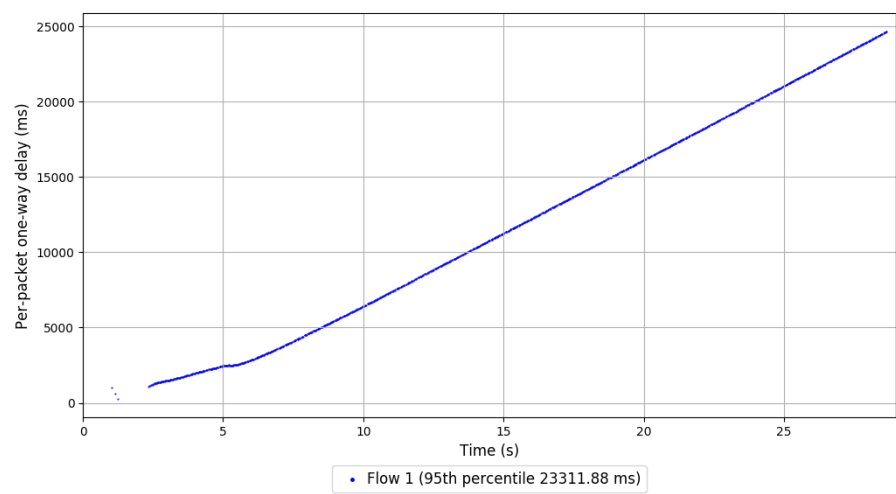
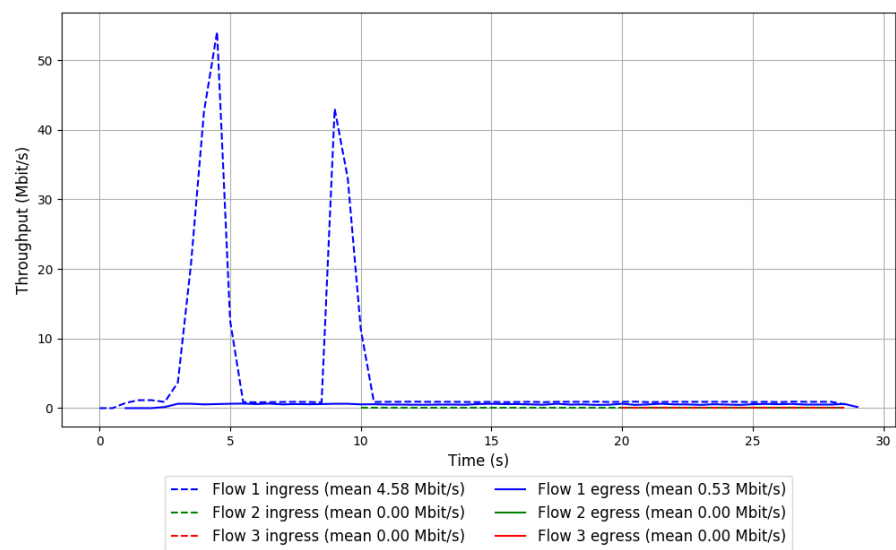
Start at: 2019-02-20 08:53:10

End at: 2019-02-20 08:53:40

Local clock offset: -56.984 ms

Remote clock offset: 7.634 ms

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

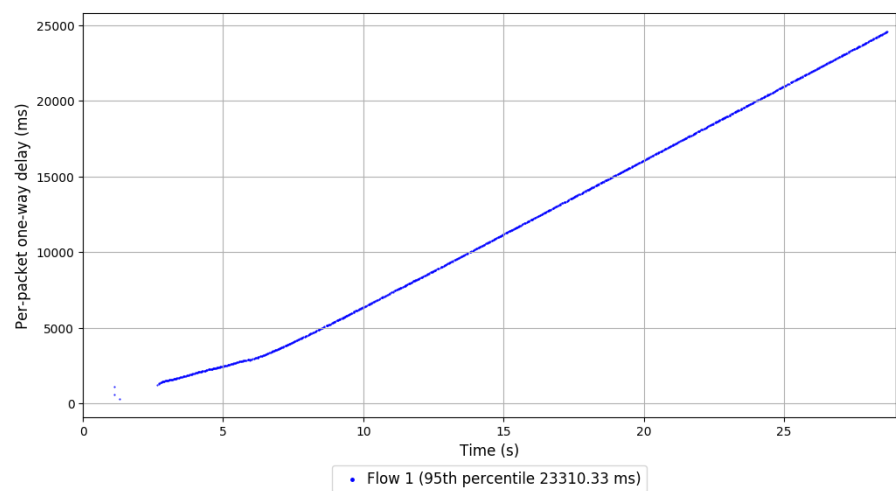
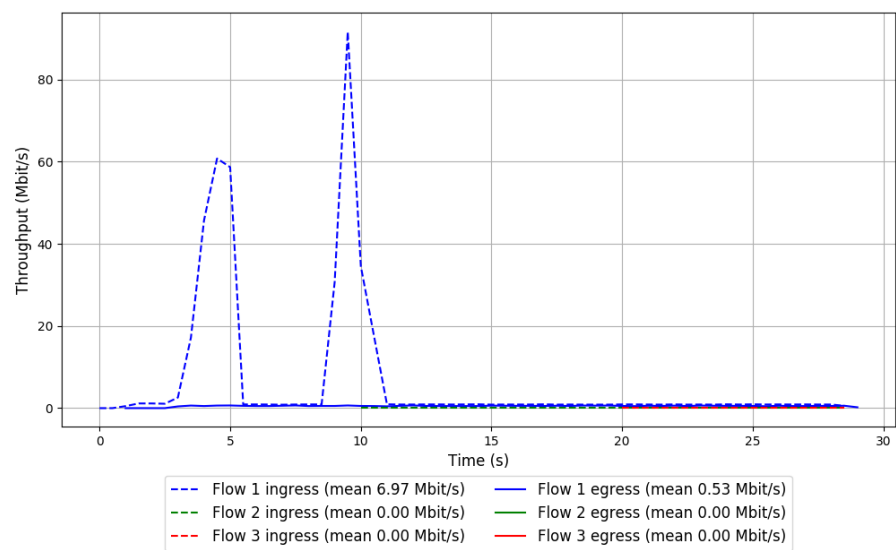
Start at: 2019-02-20 09:19:04

End at: 2019-02-20 09:19:34

Local clock offset: -57.788 ms

Remote clock offset: 1.439 ms

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

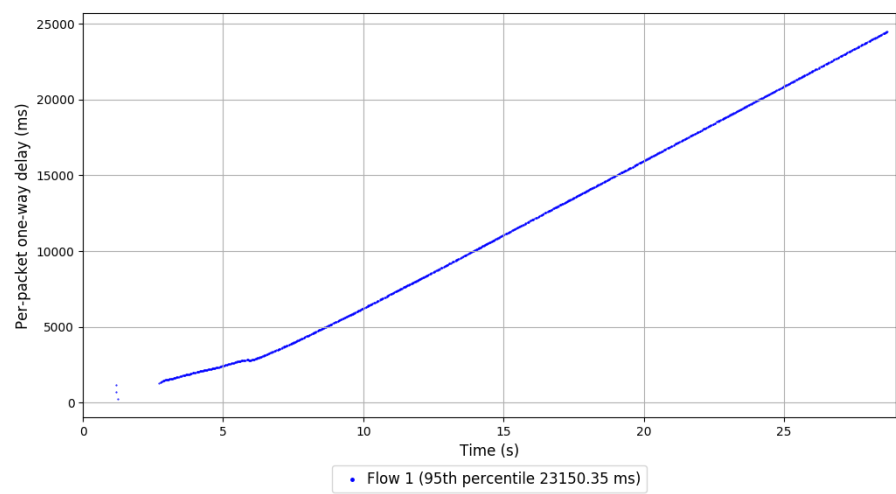
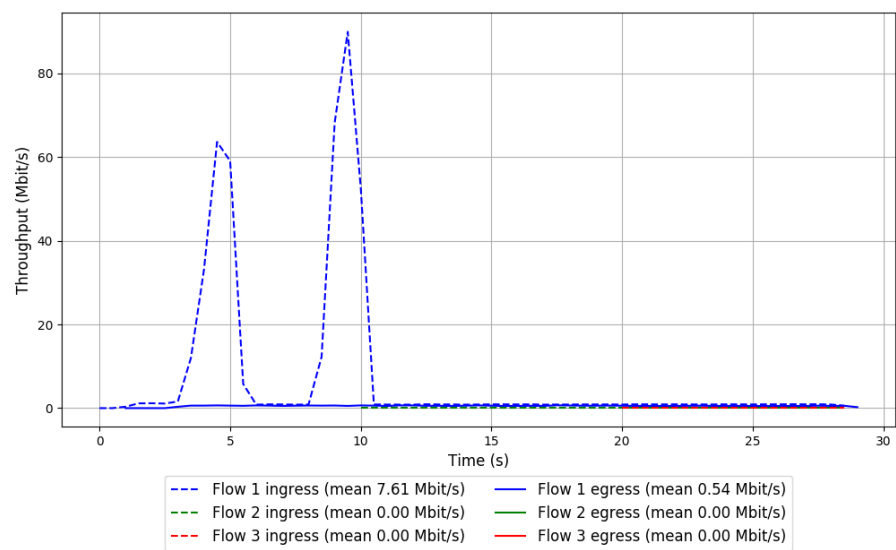
Start at: 2019-02-20 09:44:55

End at: 2019-02-20 09:45:25

Local clock offset: -61.279 ms

Remote clock offset: 1.852 ms

Run 3: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

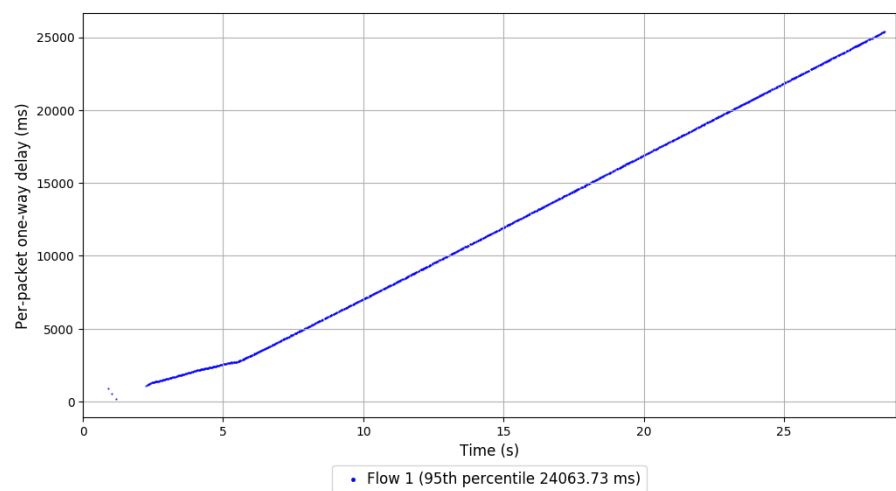
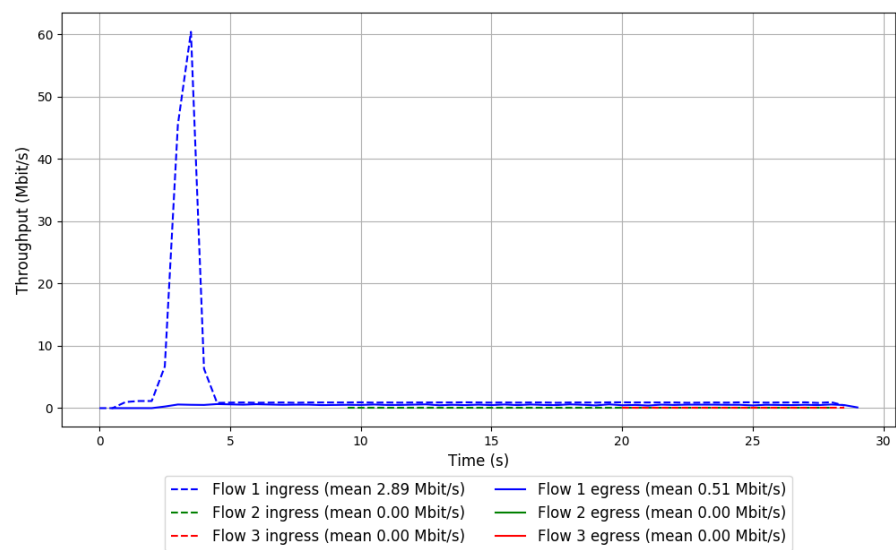
Start at: 2019-02-20 08:48:14

End at: 2019-02-20 08:48:44

Local clock offset: -57.428 ms

Remote clock offset: 3.764 ms

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

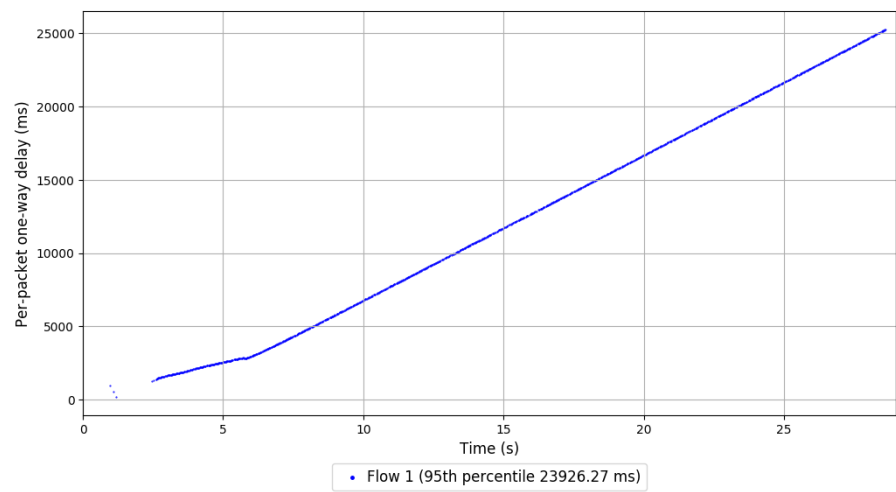
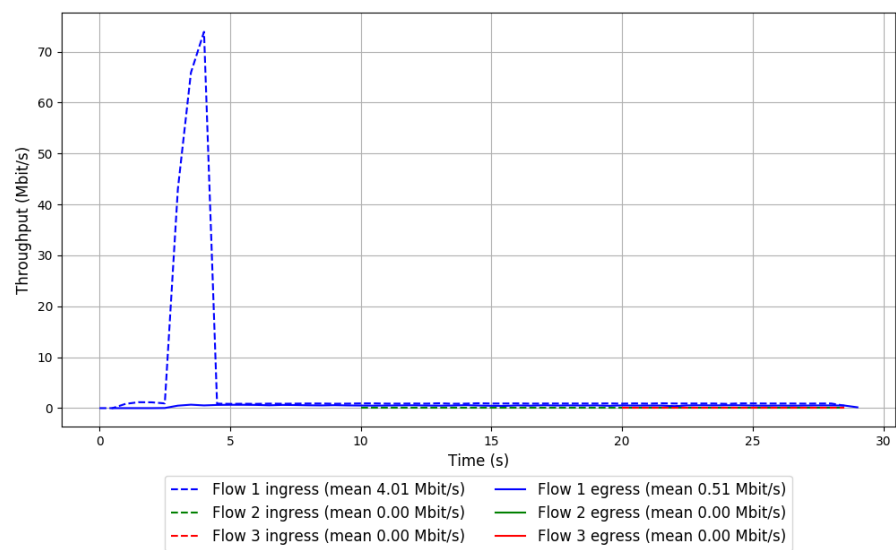
Start at: 2019-02-20 09:14:09

End at: 2019-02-20 09:14:39

Local clock offset: -57.442 ms

Remote clock offset: 6.594 ms

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

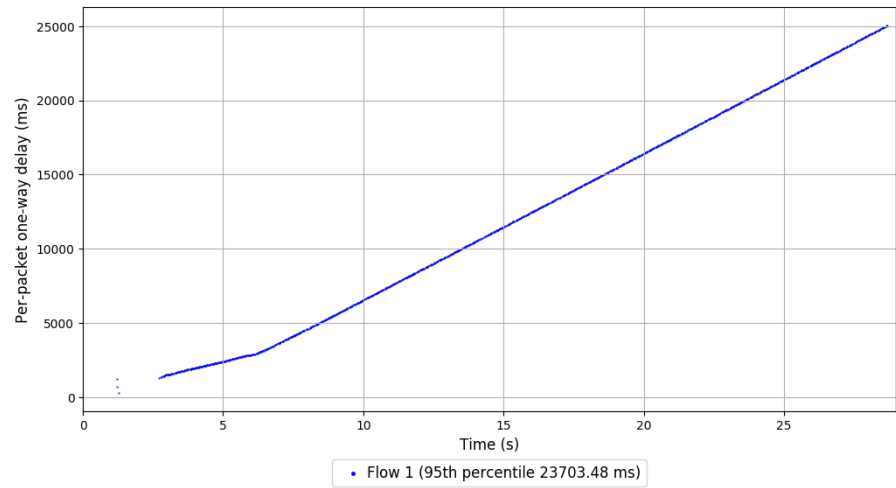
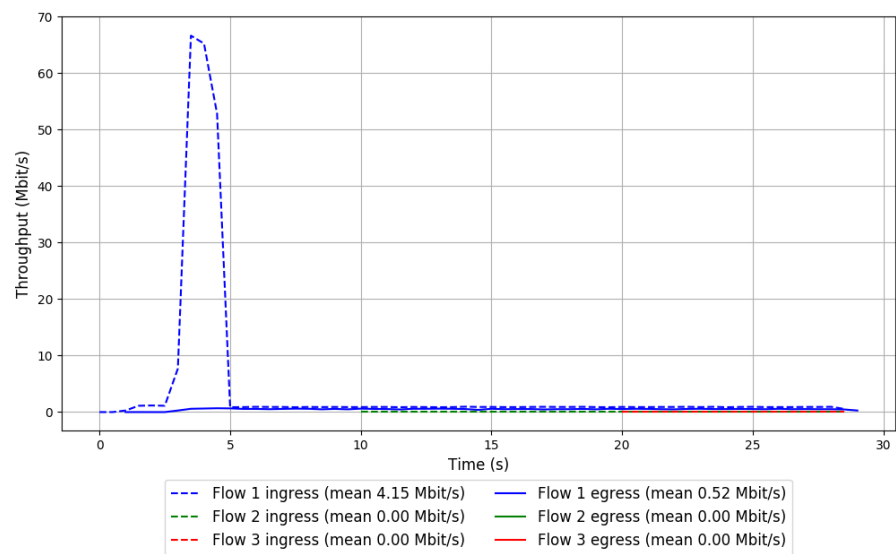
Start at: 2019-02-20 09:40:00

End at: 2019-02-20 09:40:30

Local clock offset: -60.55 ms

Remote clock offset: 4.649 ms

Run 3: Report of Indigo-MusesT — Data Link

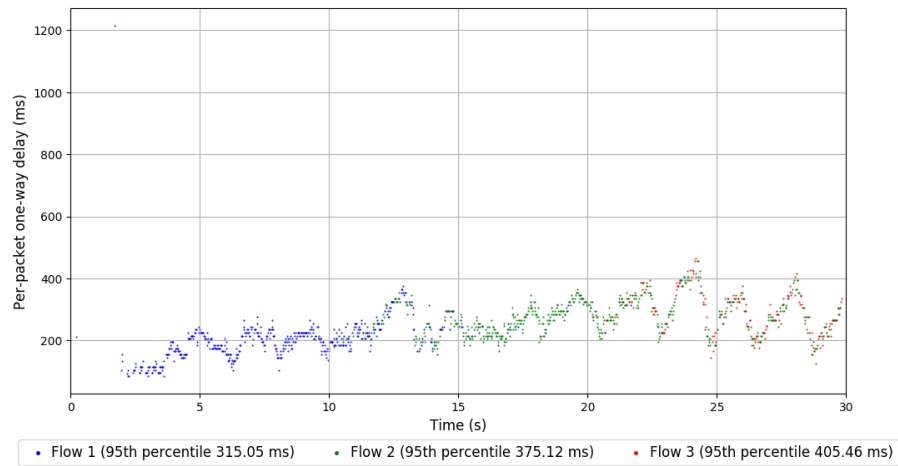
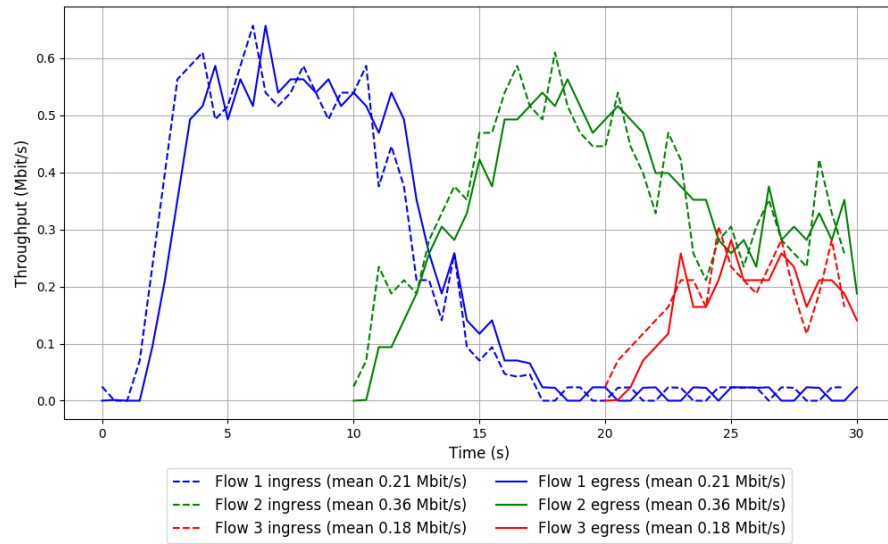


```
Run 1: Statistics of LEDBAT

Start at: 2019-02-20 08:47:00
End at: 2019-02-20 08:47:30
Local clock offset: -57.51 ms
Remote clock offset: 3.75 ms

# Below is generated by plot.py at 2019-02-20 09:52:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 365.153 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 315.052 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 375.120 ms
Loss rate: 1.82%
-- Flow 3:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 405.456 ms
Loss rate: 4.57%
```

Run 1: Report of LEDBAT — Data Link

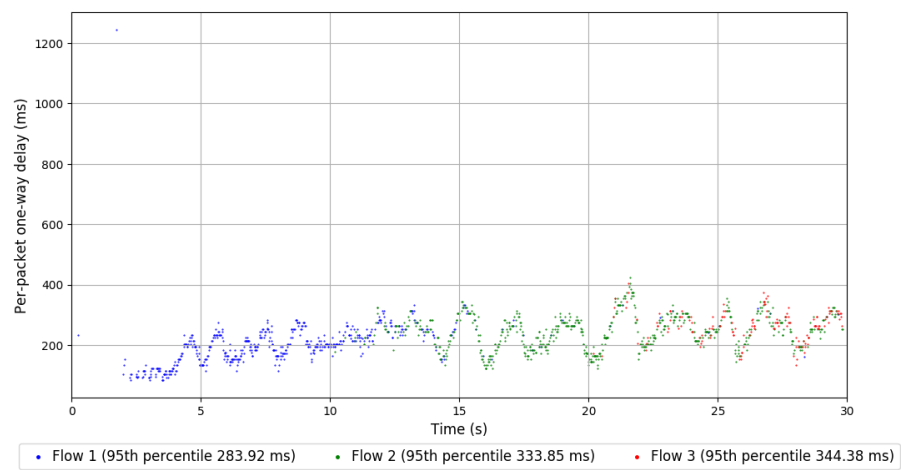
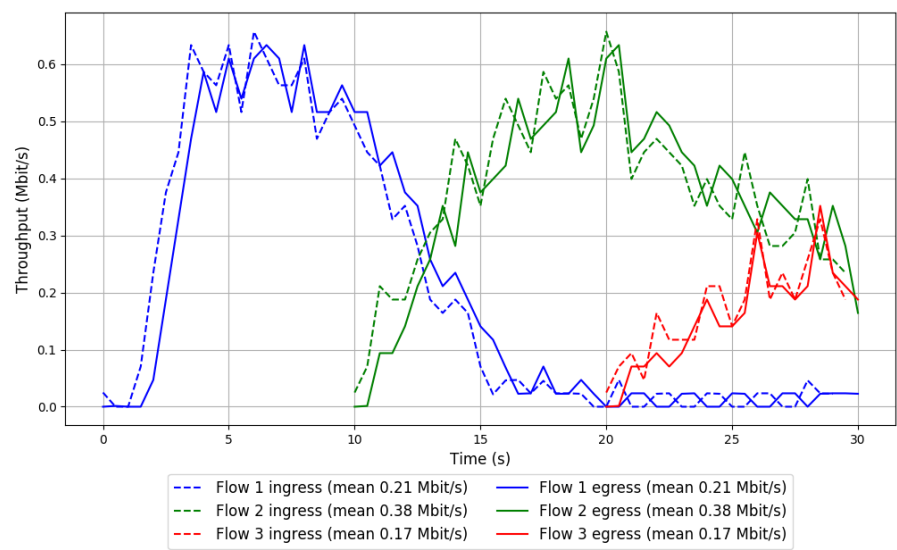


Run 2: Statistics of LEDBAT

Start at: 2019-02-20 09:12:56
End at: 2019-02-20 09:13:26
Local clock offset: -57.278 ms
Remote clock offset: 8.023 ms

Below is generated by plot.py at 2019-02-20 09:52:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 323.963 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 283.922 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 333.848 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 344.385 ms
Loss rate: 4.76%

Run 2: Report of LEDBAT — Data Link

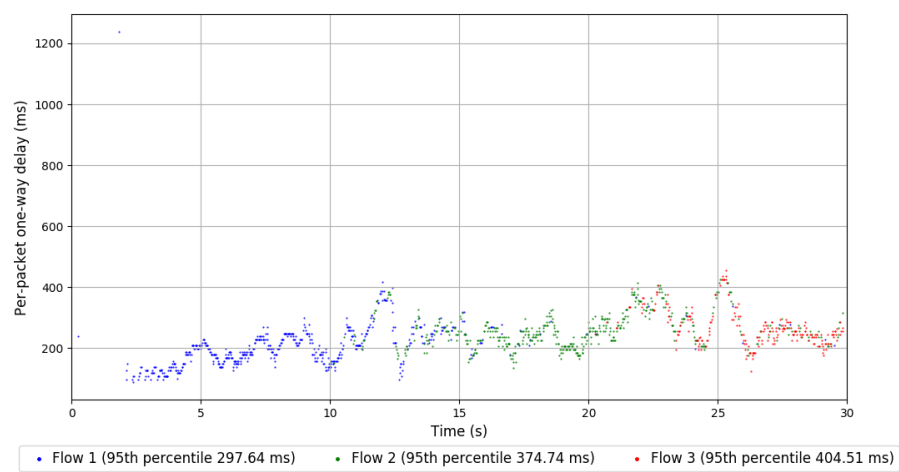
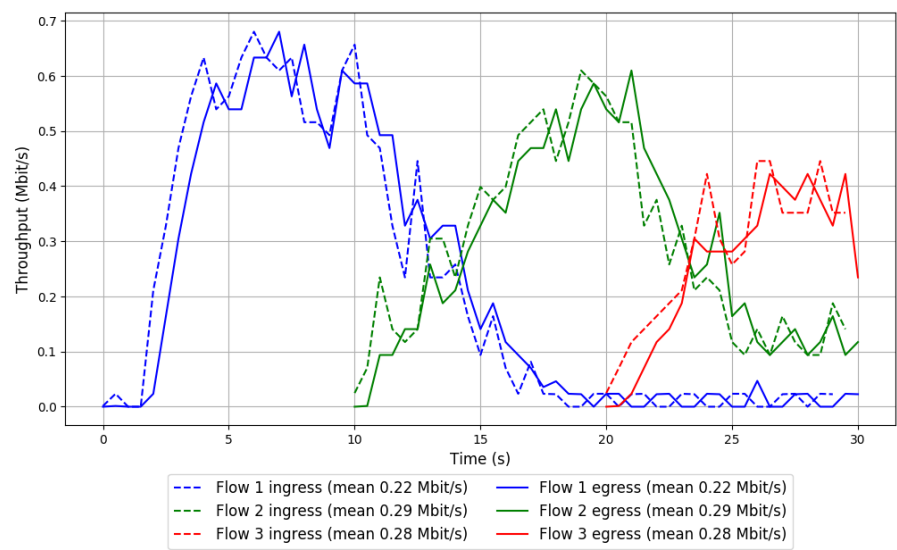


Run 3: Statistics of LEDBAT

Start at: 2019-02-20 09:38:47
End at: 2019-02-20 09:39:17
Local clock offset: -60.265 ms
Remote clock offset: 0.799 ms

Below is generated by plot.py at 2019-02-20 09:52:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 364.730 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 297.644 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 374.737 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 404.513 ms
Loss rate: 5.04%

Run 3: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

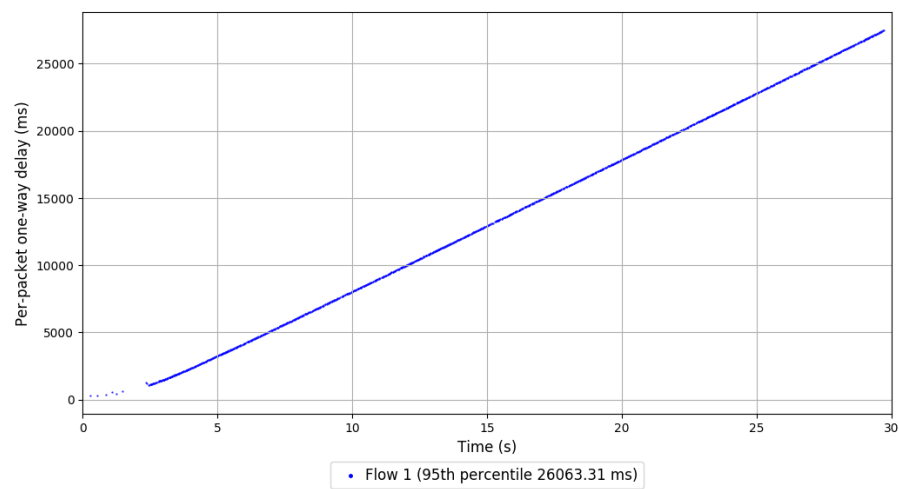
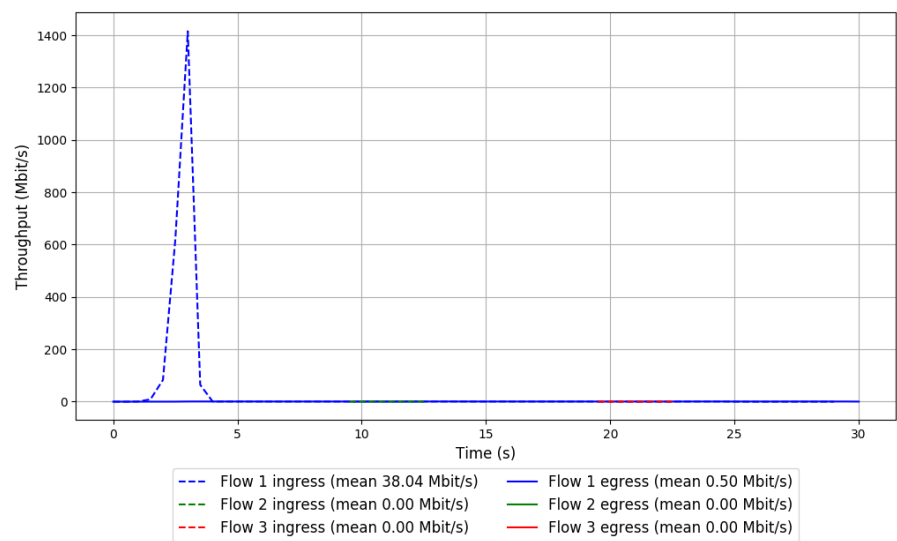
Start at: 2019-02-20 08:55:37

End at: 2019-02-20 08:56:07

Local clock offset: -56.764 ms

Remote clock offset: 6.403 ms

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

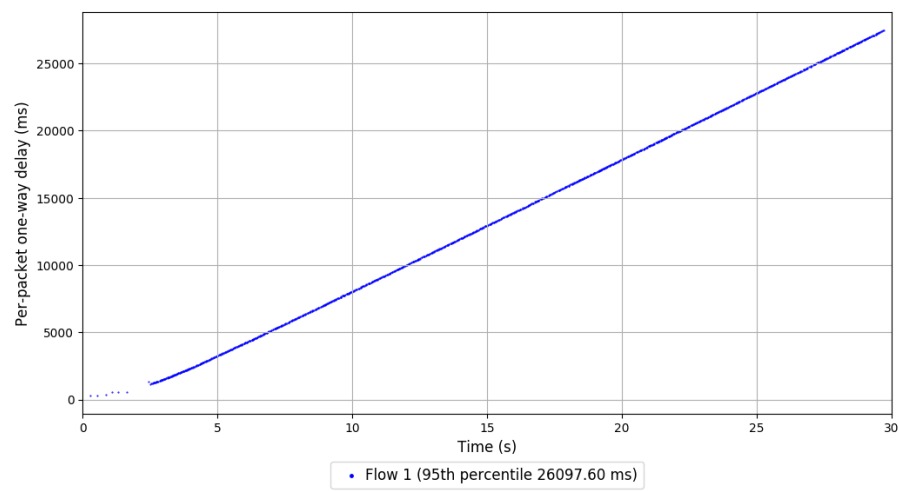
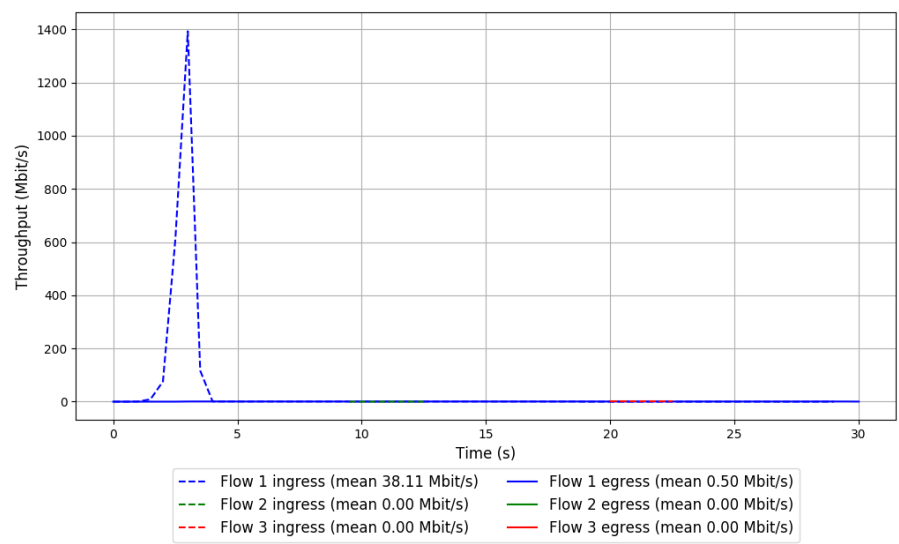
Start at: 2019-02-20 09:21:32

End at: 2019-02-20 09:22:02

Local clock offset: -57.267 ms

Remote clock offset: 1.256 ms

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

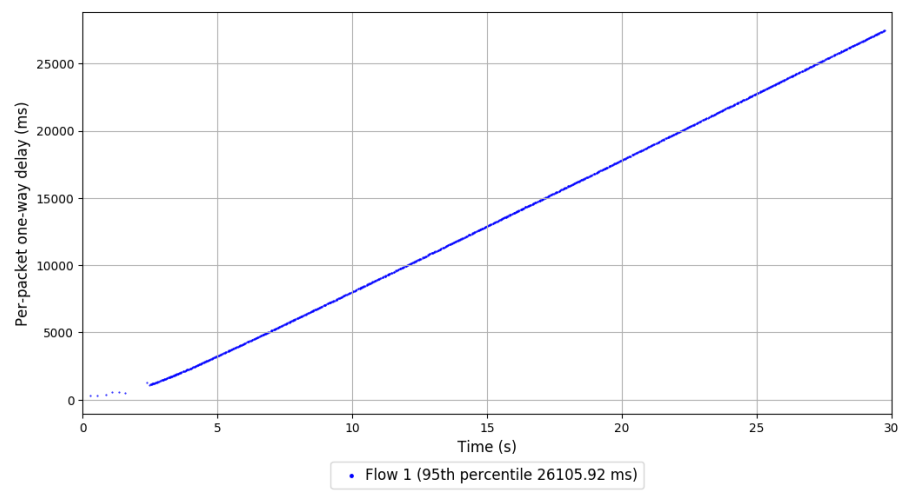
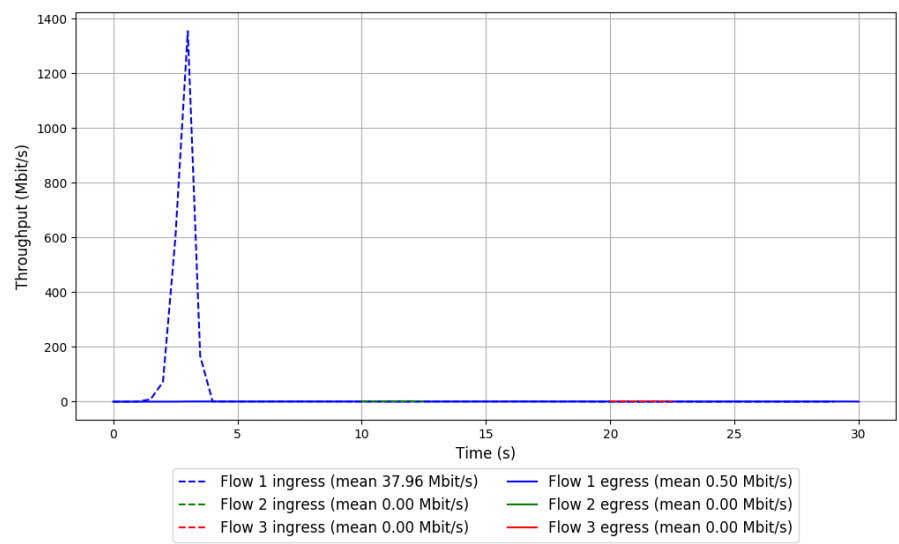
Start at: 2019-02-20 09:47:22

End at: 2019-02-20 09:47:52

Local clock offset: -61.616 ms

Remote clock offset: 2.238 ms

Run 3: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

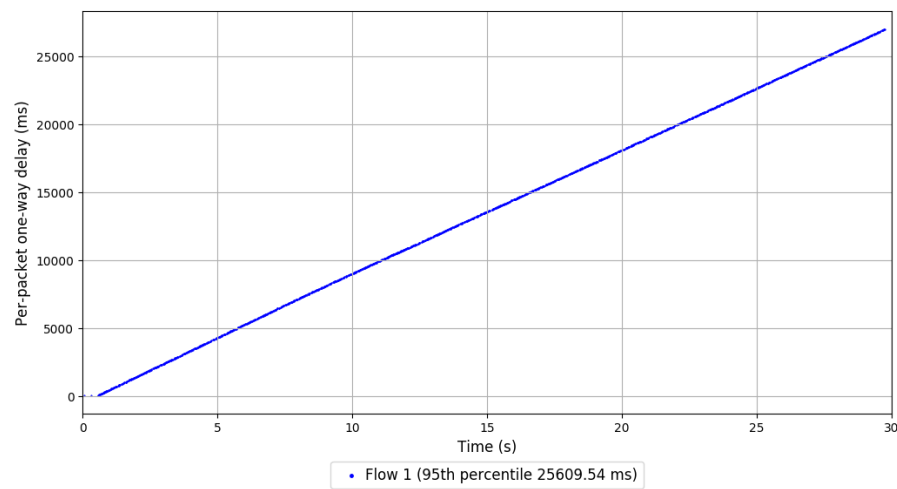
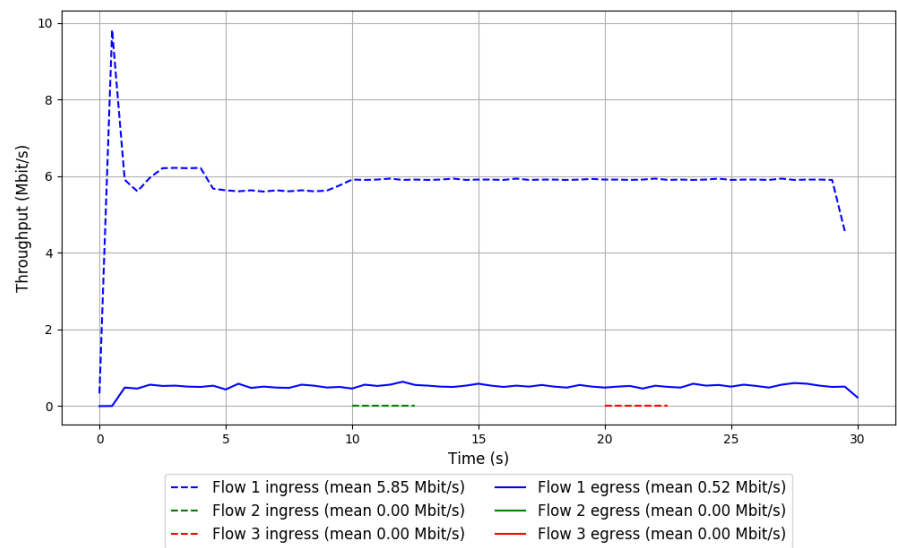
Start at: 2019-02-20 08:49:29

End at: 2019-02-20 08:49:59

Local clock offset: -57.312 ms

Remote clock offset: 8.691 ms

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

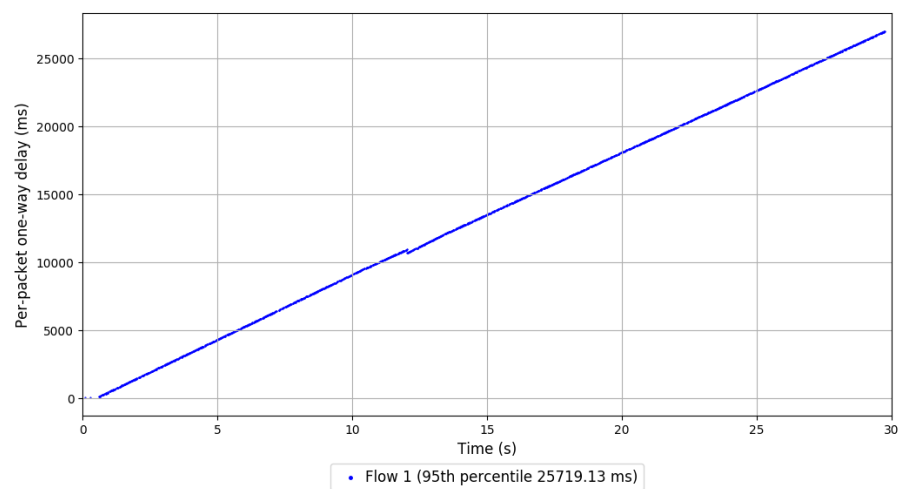
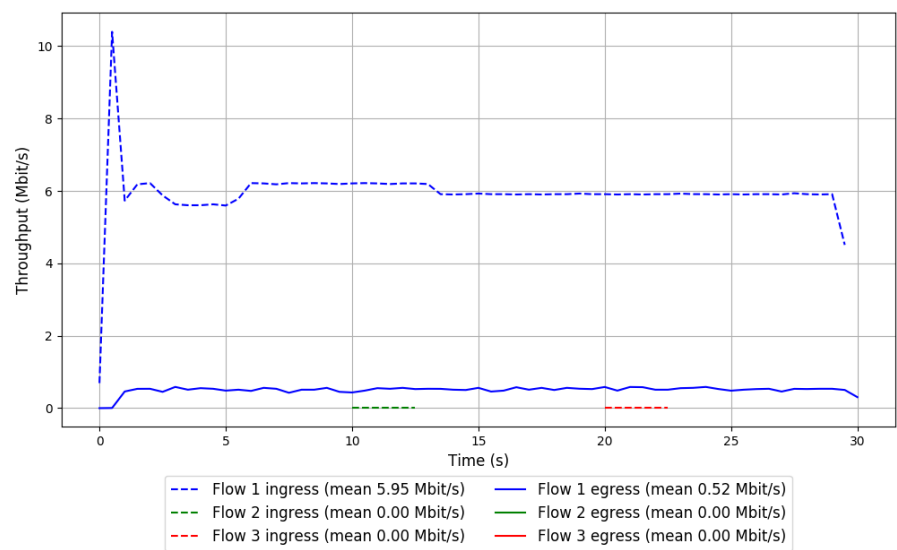
Start at: 2019-02-20 09:15:24

End at: 2019-02-20 09:15:54

Local clock offset: -57.248 ms

Remote clock offset: 2.952 ms

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

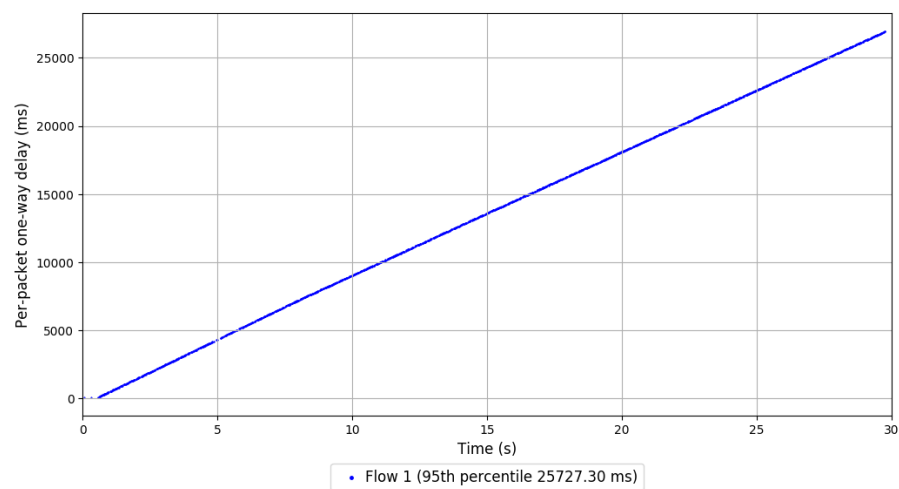
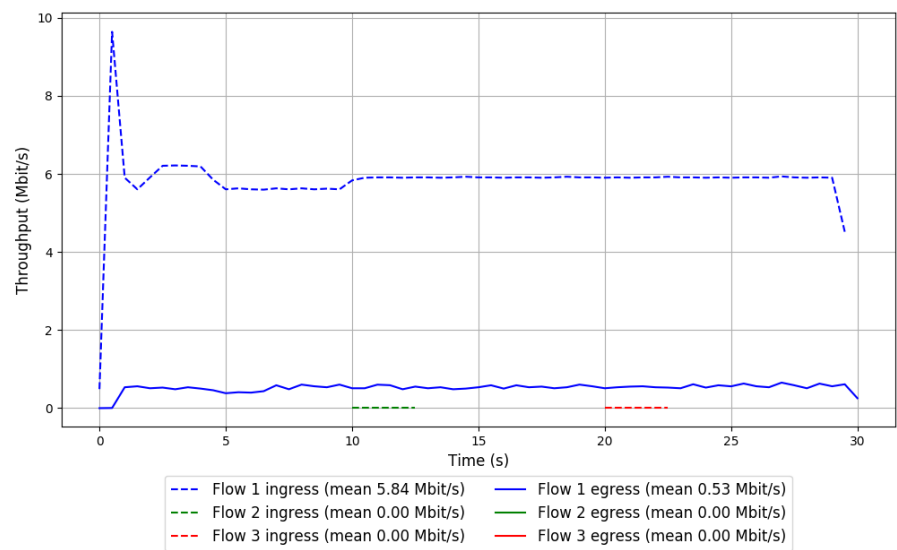
Start at: 2019-02-20 09:41:14

End at: 2019-02-20 09:41:44

Local clock offset: -60.788 ms

Remote clock offset: 1.347 ms

Run 3: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-02-20 08:43:20

End at: 2019-02-20 08:43:50

Local clock offset: -58.05 ms

Remote clock offset: 2.561 ms

Below is generated by plot.py at 2019-02-20 09:52:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 8140.143 ms

Loss rate: 28.86%

-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 8130.057 ms

Loss rate: 28.84%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 8122.305 ms

Loss rate: 37.50%

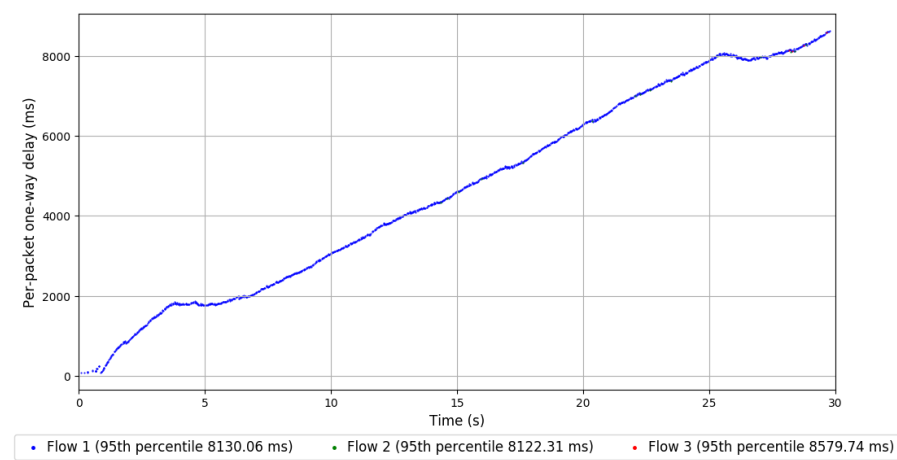
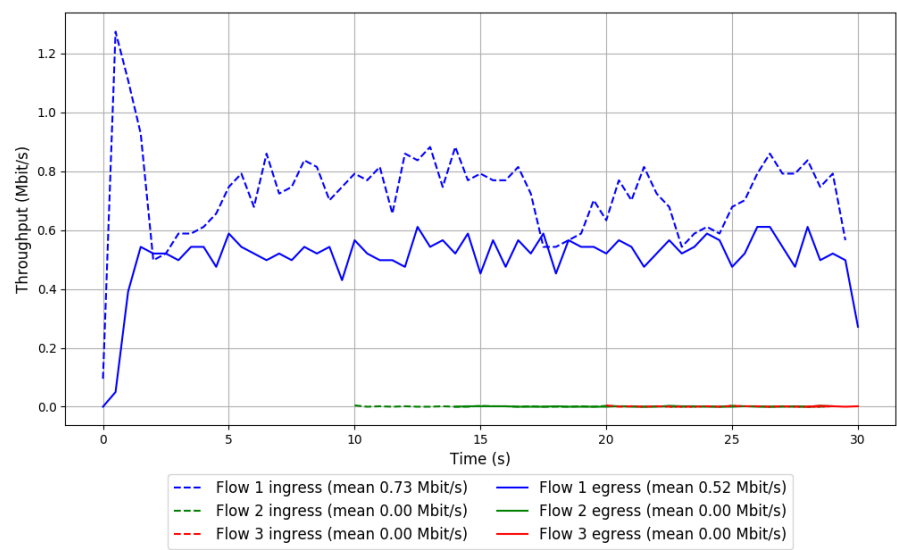
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 8579.736 ms

Loss rate: 66.67%

Run 1: Report of QUIC Cubic — Data Link

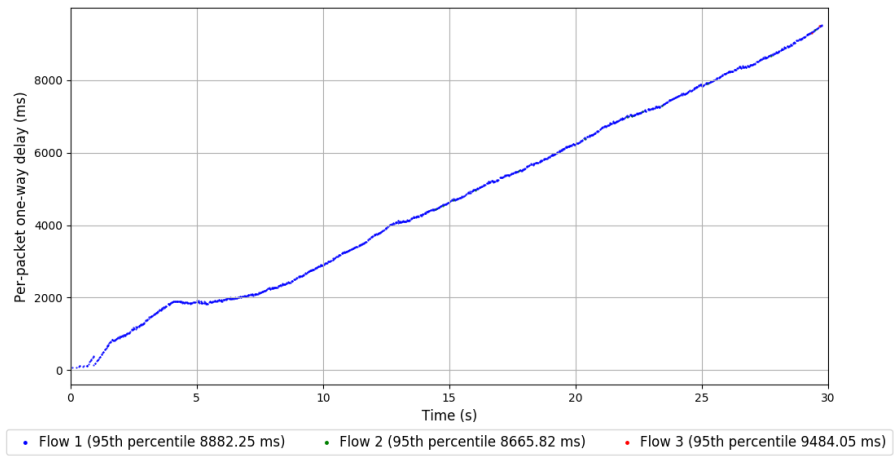
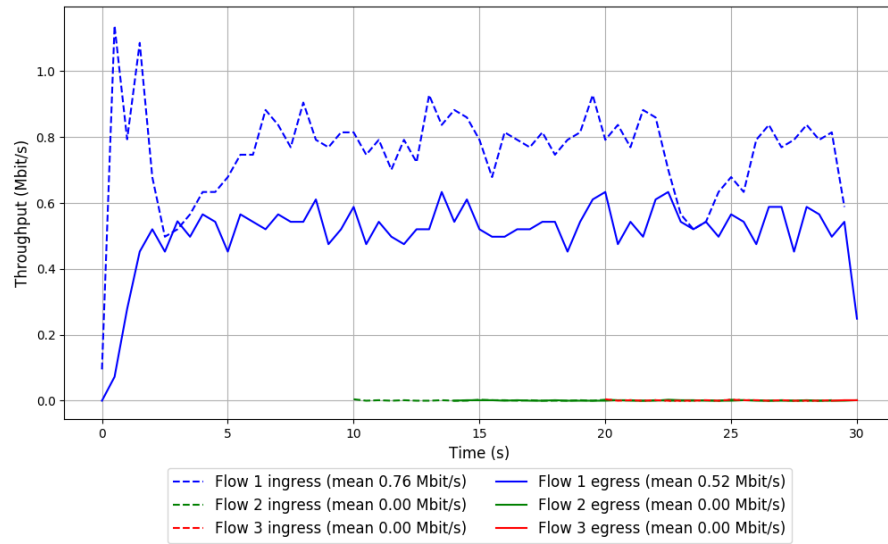


Run 2: Statistics of QUIC Cubic

Start at: 2019-02-20 09:09:15
End at: 2019-02-20 09:09:45
Local clock offset: -57.168 ms
Remote clock offset: 2.454 ms

Below is generated by plot.py at 2019-02-20 09:52:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 8885.568 ms
Loss rate: 31.34%
-- Flow 1:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 8882.246 ms
Loss rate: 31.31%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 8665.823 ms
Loss rate: 45.83%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 9484.049 ms
Loss rate: 83.33%

Run 2: Report of QUIC Cubic — Data Link

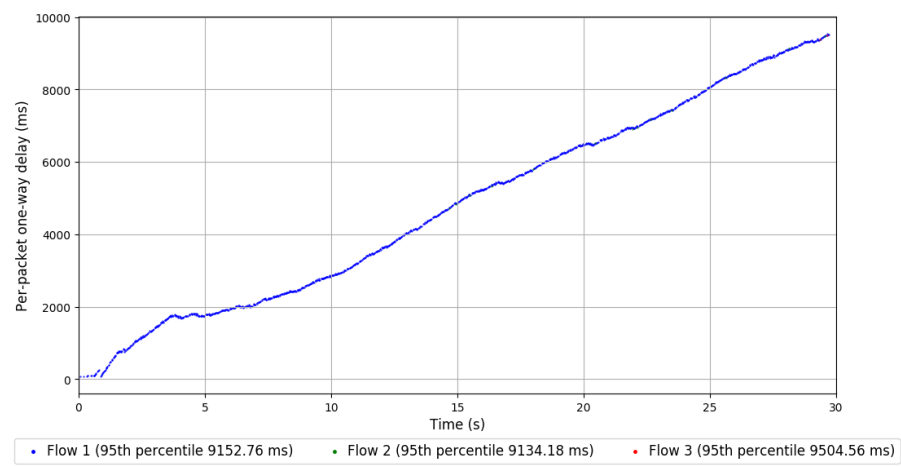
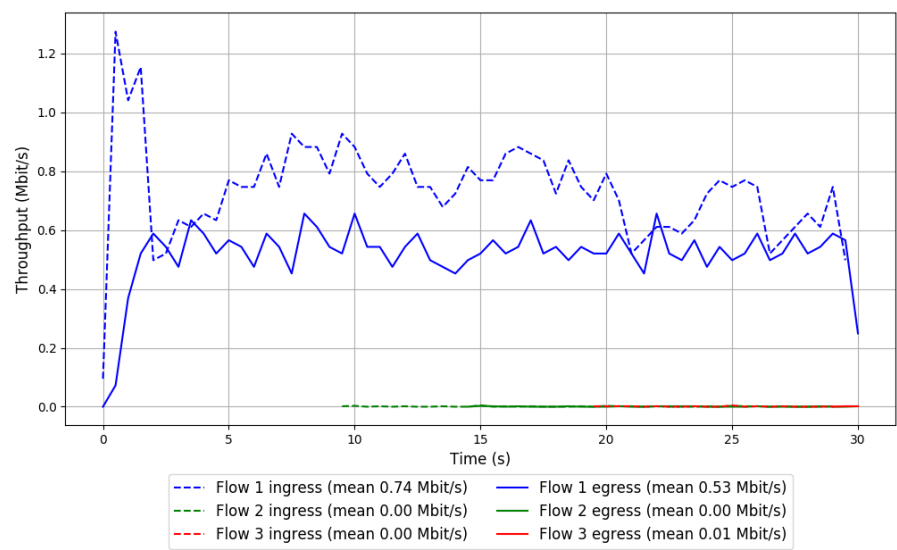


Run 3: Statistics of QUIC Cubic

Start at: 2019-02-20 09:35:06
End at: 2019-02-20 09:35:36
Local clock offset: -59.203 ms
Remote clock offset: 2.228 ms

Below is generated by plot.py at 2019-02-20 09:52:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 9163.015 ms
Loss rate: 28.68%
-- Flow 1:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 9152.763 ms
Loss rate: 28.64%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 9134.179 ms
Loss rate: 45.83%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 9504.563 ms
Loss rate: 83.33%

Run 3: Report of QUIC Cubic — Data Link

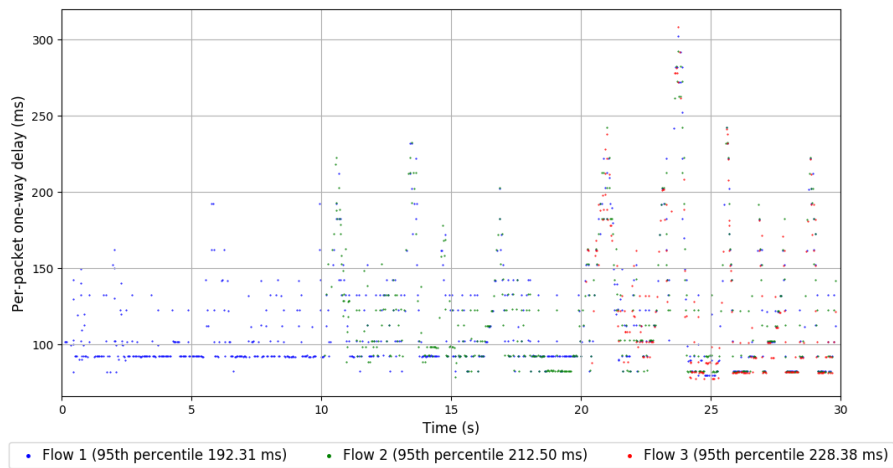
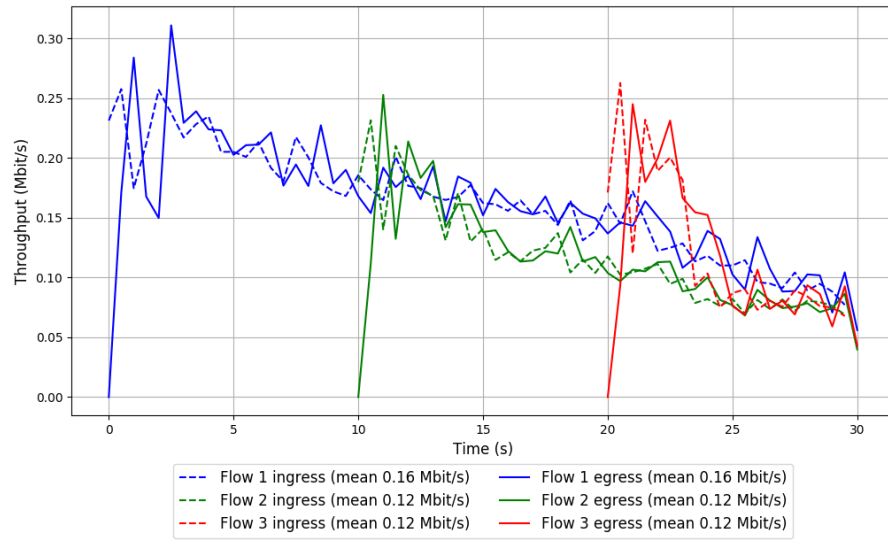


```
Run 1: Statistics of SCReAM

Start at: 2019-02-20 08:54:24
End at: 2019-02-20 08:54:54
Local clock offset: -56.938 ms
Remote clock offset: 2.495 ms

# Below is generated by plot.py at 2019-02-20 09:52:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 208.244 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 192.311 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 212.501 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 228.382 ms
Loss rate: 1.51%
```

Run 1: Report of SReAM — Data Link

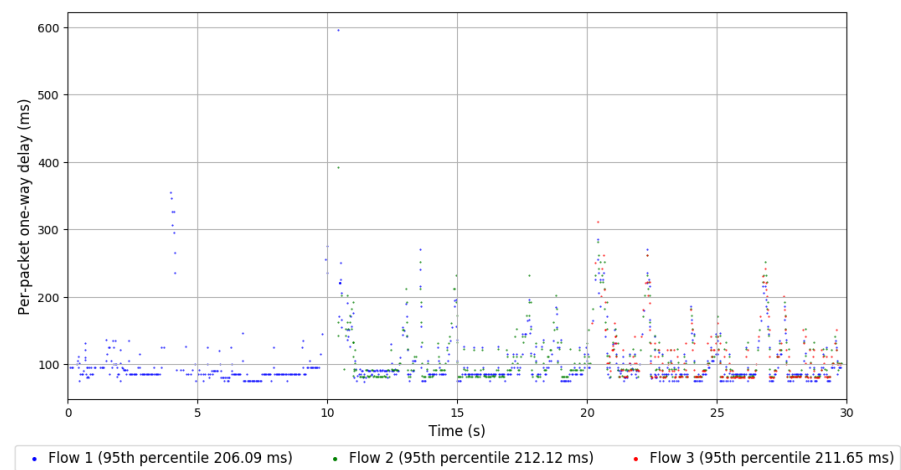
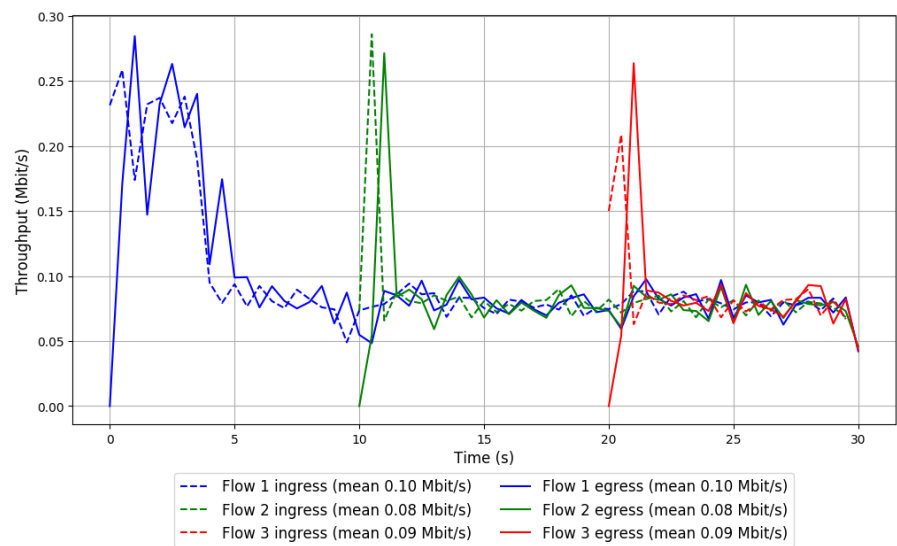


Run 2: Statistics of SCReAM

Start at: 2019-02-20 09:20:18
End at: 2019-02-20 09:20:48
Local clock offset: -57.213 ms
Remote clock offset: 1.338 ms

Below is generated by plot.py at 2019-02-20 09:52:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 212.121 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 206.094 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 212.121 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 211.649 ms
Loss rate: 2.38%

Run 2: Report of SReAM — Data Link

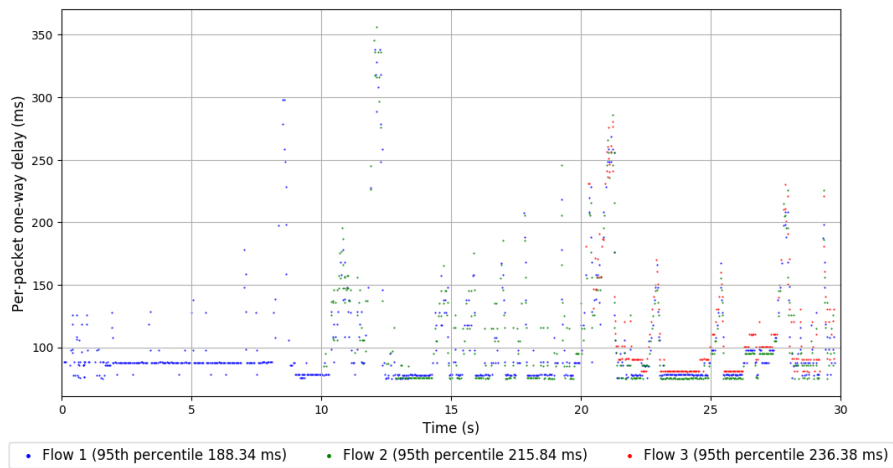
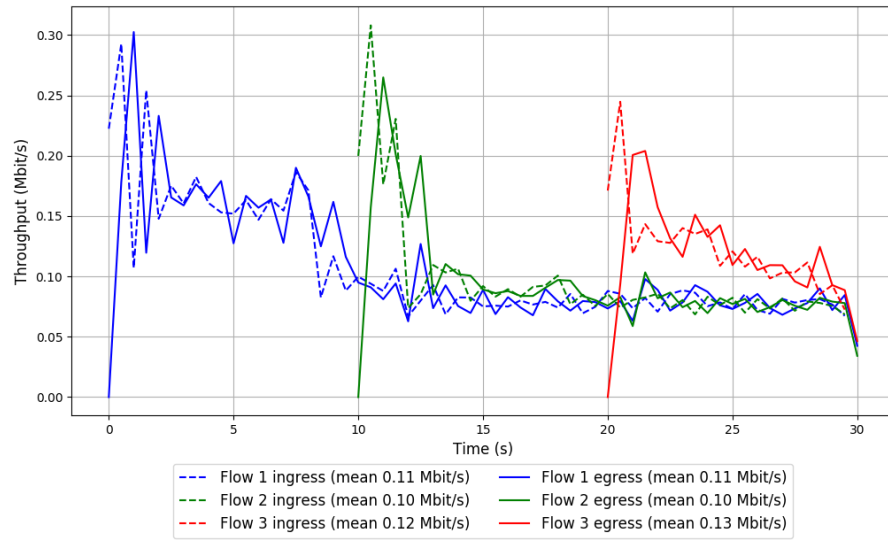


Run 3: Statistics of SCReAM

Start at: 2019-02-20 09:46:08
End at: 2019-02-20 09:46:38
Local clock offset: -61.472 ms
Remote clock offset: 2.154 ms

Below is generated by plot.py at 2019-02-20 09:52:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 210.361 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 188.337 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 215.836 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 236.377 ms
Loss rate: 1.85%

Run 3: Report of SReAM — Data Link

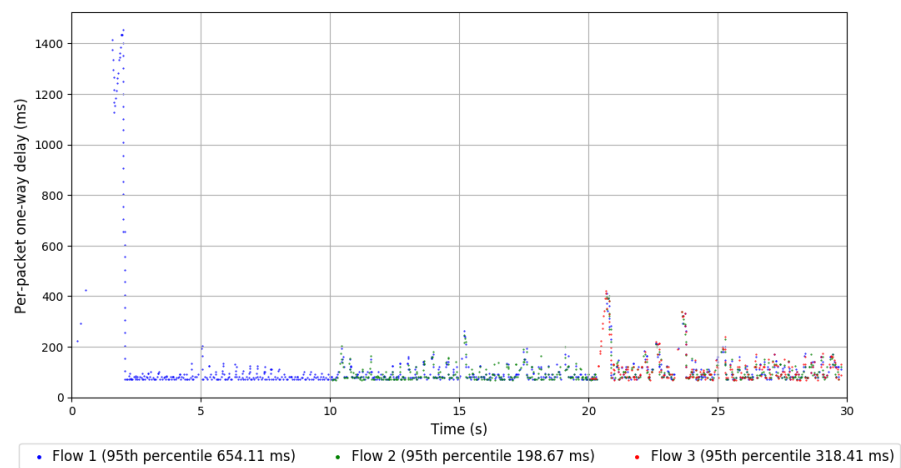
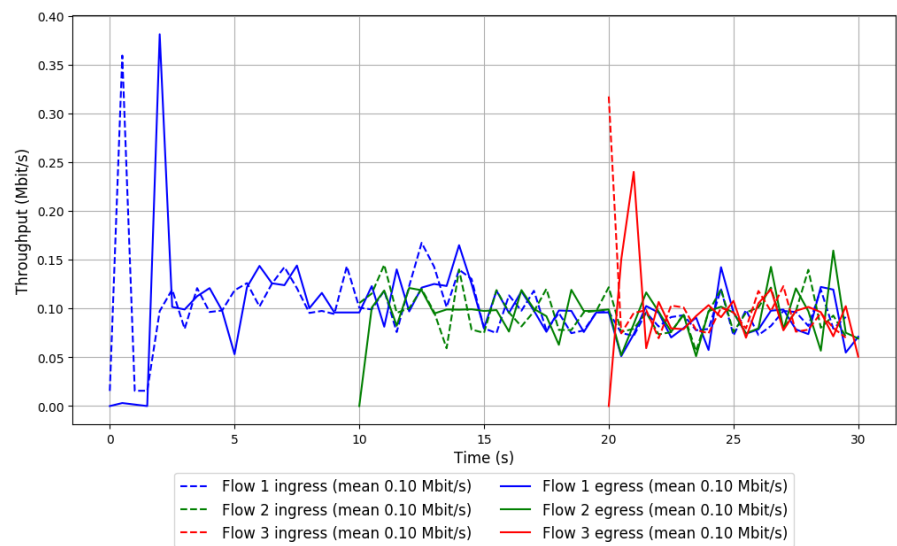


Run 1: Statistics of Sprout

Start at: 2019-02-20 08:59:21
End at: 2019-02-20 08:59:51
Local clock offset: -56.531 ms
Remote clock offset: 6.923 ms

Below is generated by plot.py at 2019-02-20 09:52:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 311.168 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 654.114 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 198.673 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 318.409 ms
Loss rate: 1.20%

Run 1: Report of Sprout — Data Link

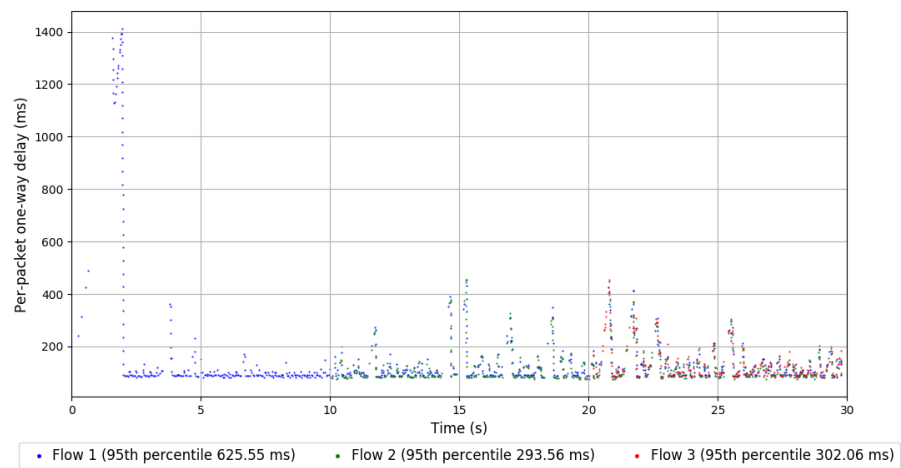
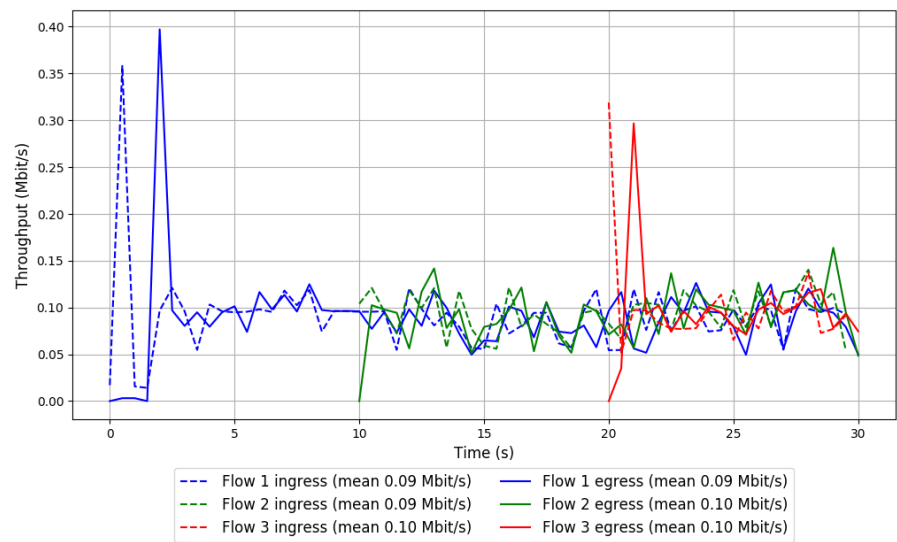


Run 2: Statistics of Sprout

Start at: 2019-02-20 09:25:14
End at: 2019-02-20 09:25:44
Local clock offset: -57.131 ms
Remote clock offset: 1.195 ms

```
# Below is generated by plot.py at 2019-02-20 09:52:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 353.505 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 625.549 ms
Loss rate: 1.23%
-- Flow 2:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 293.559 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 302.055 ms
Loss rate: 0.99%
```

Run 2: Report of Sprout — Data Link

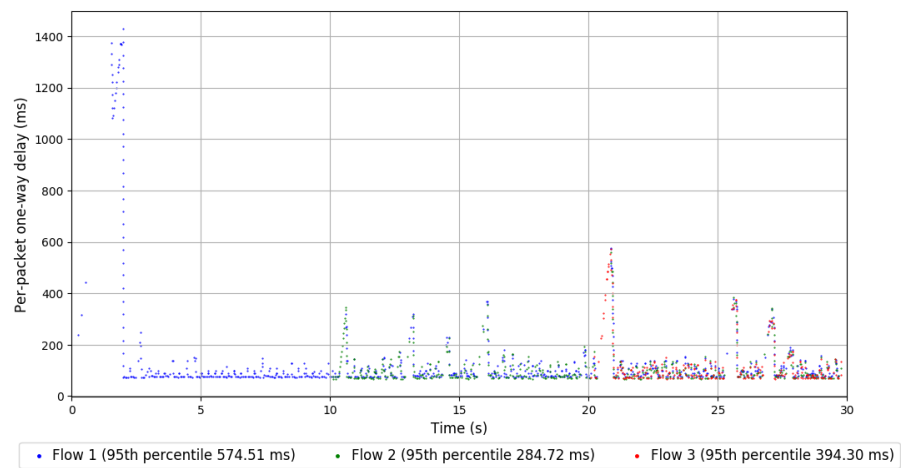
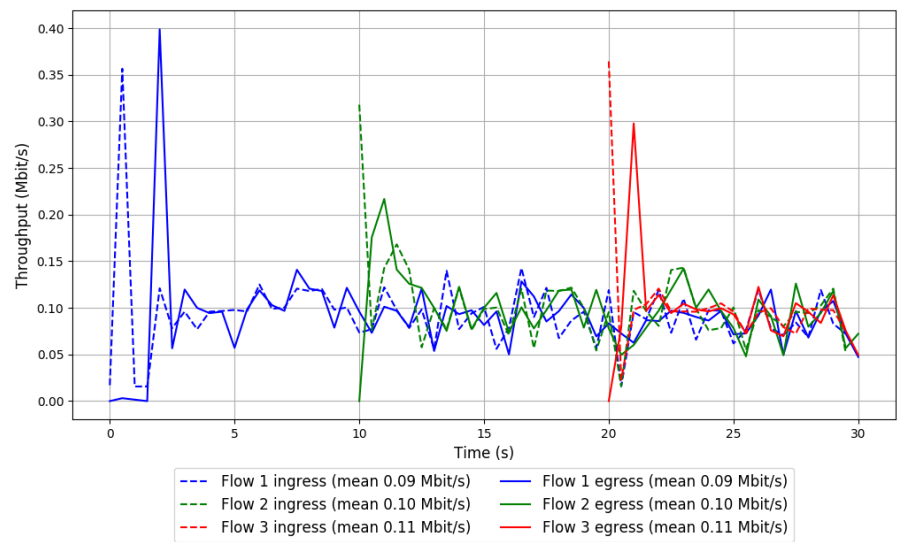


Run 3: Statistics of Sprout

Start at: 2019-02-20 09:51:05
End at: 2019-02-20 09:51:35
Local clock offset: -61.887 ms
Remote clock offset: 8.546 ms

```
# Below is generated by plot.py at 2019-02-20 09:52:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 369.283 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 574.510 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 284.724 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 394.297 ms
Loss rate: 2.35%
```

Run 3: Report of Sprout — Data Link

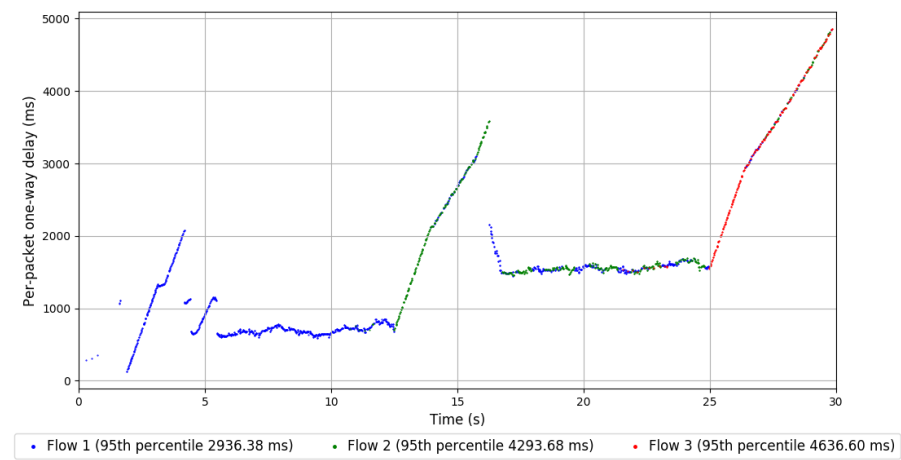
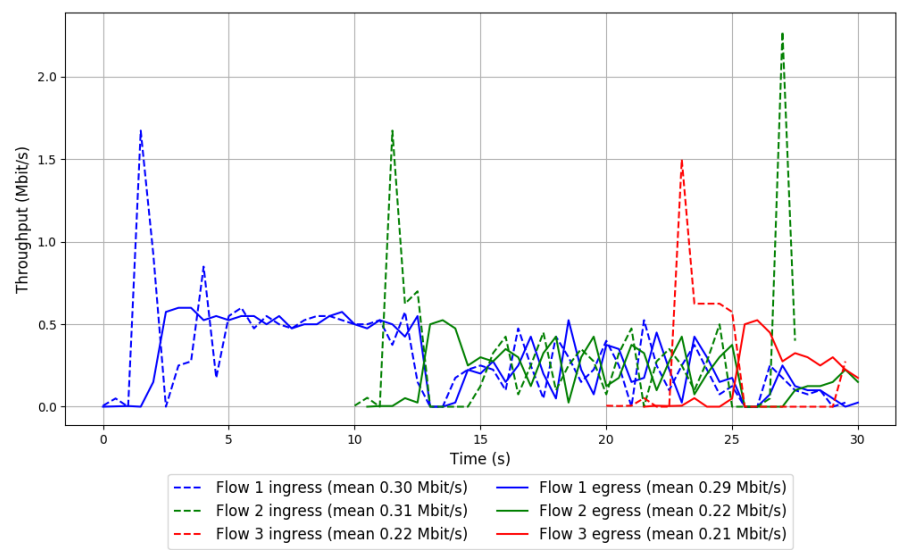


Run 1: Statistics of TaoVA-100x

Start at: 2019-02-20 08:58:07
End at: 2019-02-20 08:58:37
Local clock offset: -56.539 ms
Remote clock offset: 7.835 ms

Below is generated by plot.py at 2019-02-20 09:52:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 3984.223 ms
Loss rate: 13.24%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 2936.382 ms
Loss rate: 4.79%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 4293.682 ms
Loss rate: 24.69%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 4636.598 ms
Loss rate: 19.80%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-02-20 09:24:00

End at: 2019-02-20 09:24:30

Local clock offset: -57.21 ms

Remote clock offset: 5.053 ms

Below is generated by plot.py at 2019-02-20 09:52:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 4005.280 ms

Loss rate: 11.53%

-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 2972.759 ms

Loss rate: 4.43%

-- Flow 2:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 3626.362 ms

Loss rate: 21.25%

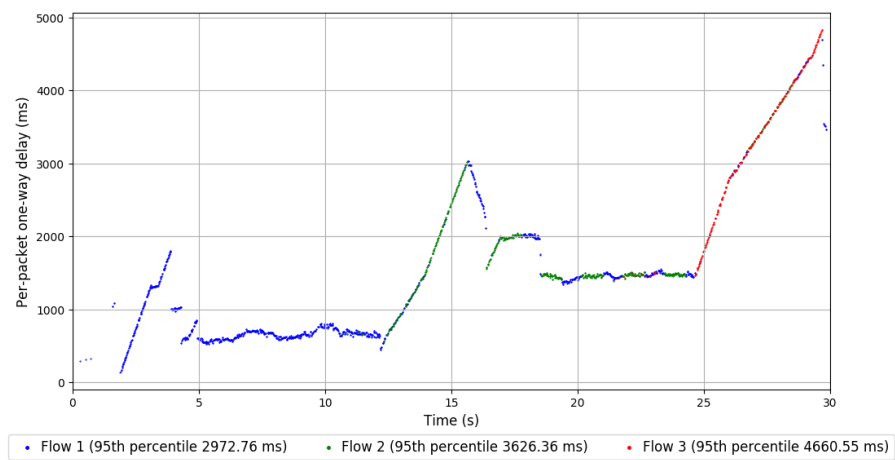
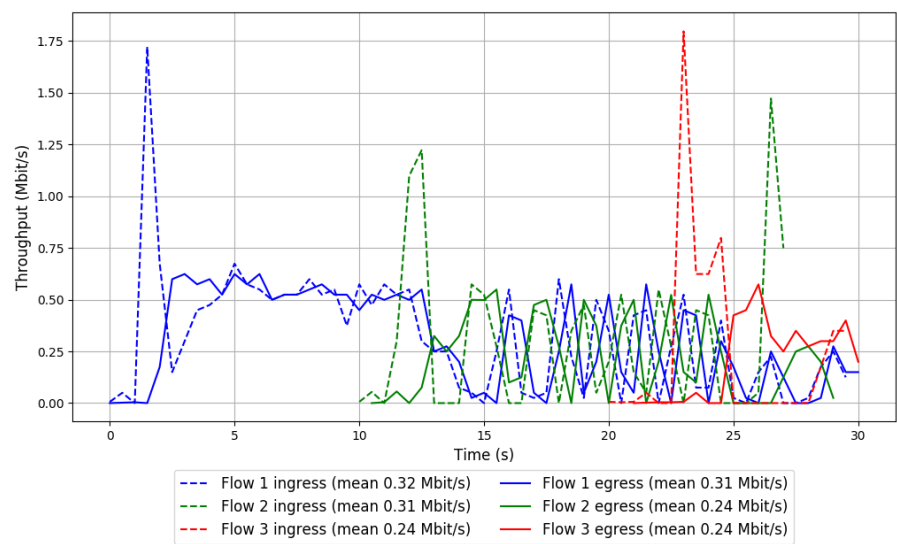
-- Flow 3:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 4660.549 ms

Loss rate: 18.26%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-02-20 09:49:51

End at: 2019-02-20 09:50:21

Local clock offset: -61.79 ms

Remote clock offset: 7.373 ms

Below is generated by plot.py at 2019-02-20 09:52:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 4171.217 ms

Loss rate: 8.11%

-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 3127.254 ms

Loss rate: 4.63%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 3928.222 ms

Loss rate: 9.68%

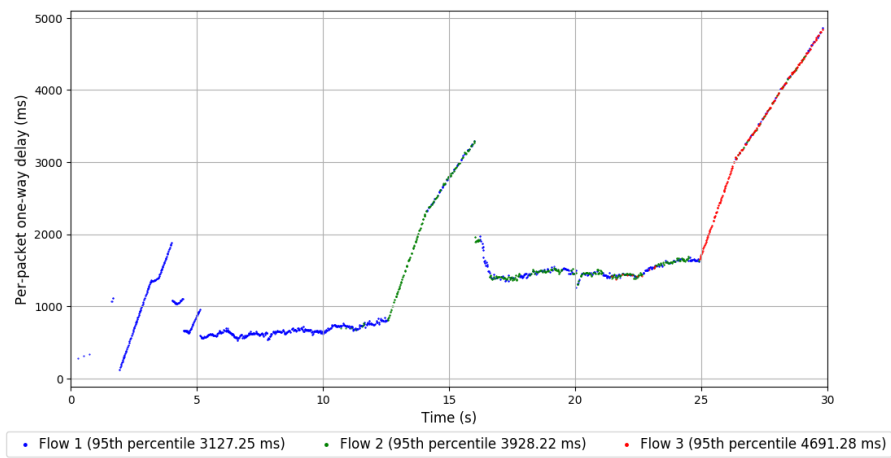
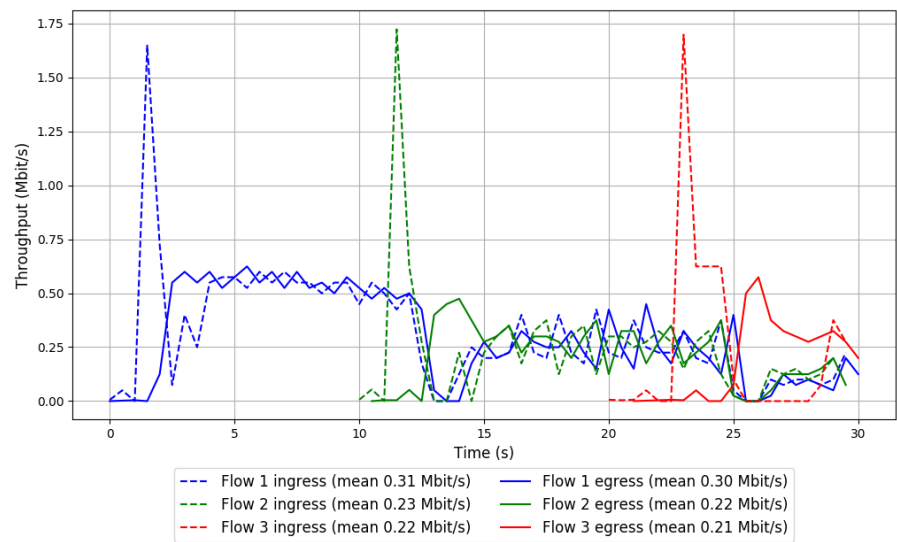
-- Flow 3:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 4691.278 ms

Loss rate: 19.59%

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

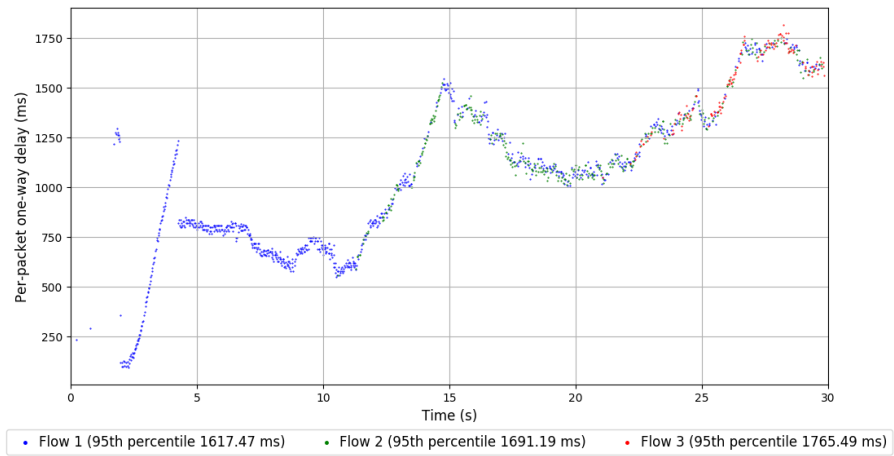
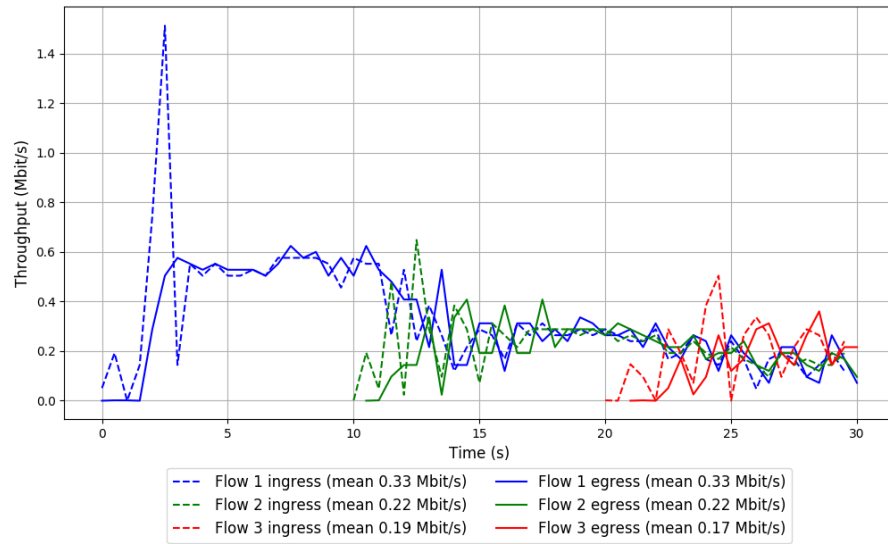


Run 1: Statistics of TCP Vegas

Start at: 2019-02-20 08:44:33
End at: 2019-02-20 08:45:03
Local clock offset: -57.838 ms
Remote clock offset: 8.706 ms

Below is generated by plot.py at 2019-02-20 09:52:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 1697.081 ms
Loss rate: 5.59%
-- Flow 1:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 1617.472 ms
Loss rate: 2.53%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1691.192 ms
Loss rate: 6.20%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 1765.488 ms
Loss rate: 20.22%

Run 1: Report of TCP Vegas — Data Link

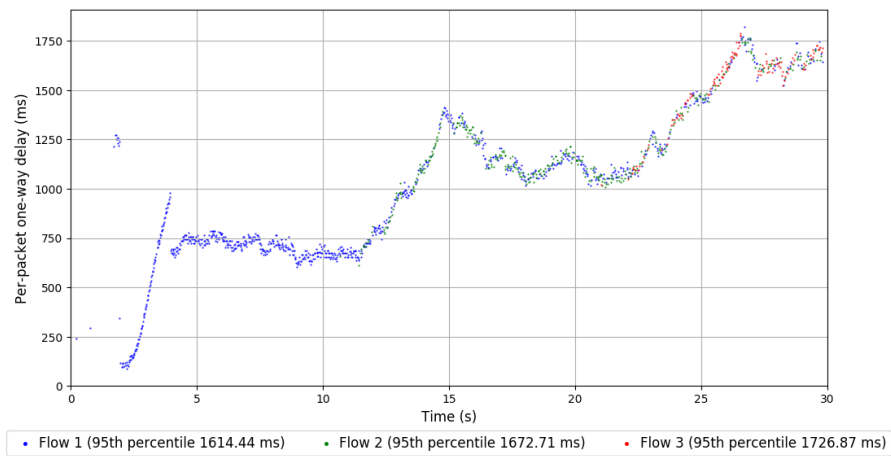
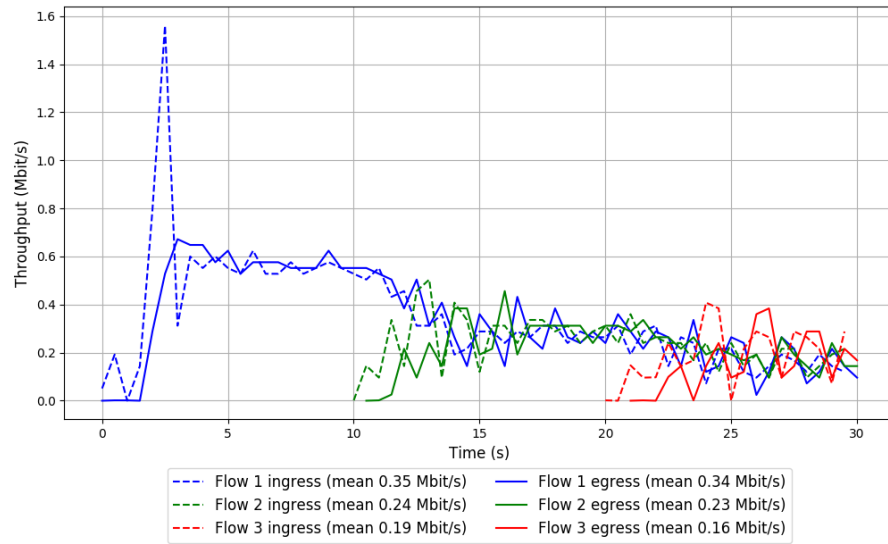


Run 2: Statistics of TCP Vegas

Start at: 2019-02-20 09:10:28
End at: 2019-02-20 09:10:58
Local clock offset: -57.762 ms
Remote clock offset: 3.276 ms

Below is generated by plot.py at 2019-02-20 09:52:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 1671.841 ms
Loss rate: 5.65%
-- Flow 1:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 1614.441 ms
Loss rate: 2.54%
-- Flow 2:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 1672.714 ms
Loss rate: 6.33%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 1726.871 ms
Loss rate: 21.53%

Run 2: Report of TCP Vegas — Data Link

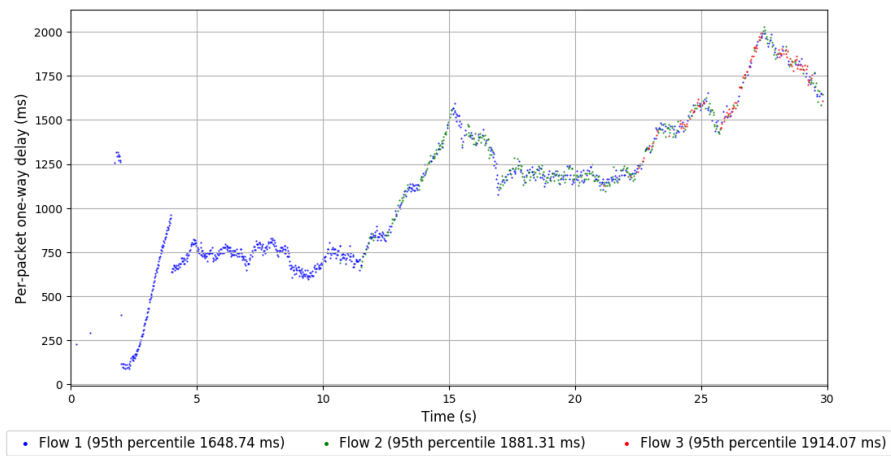
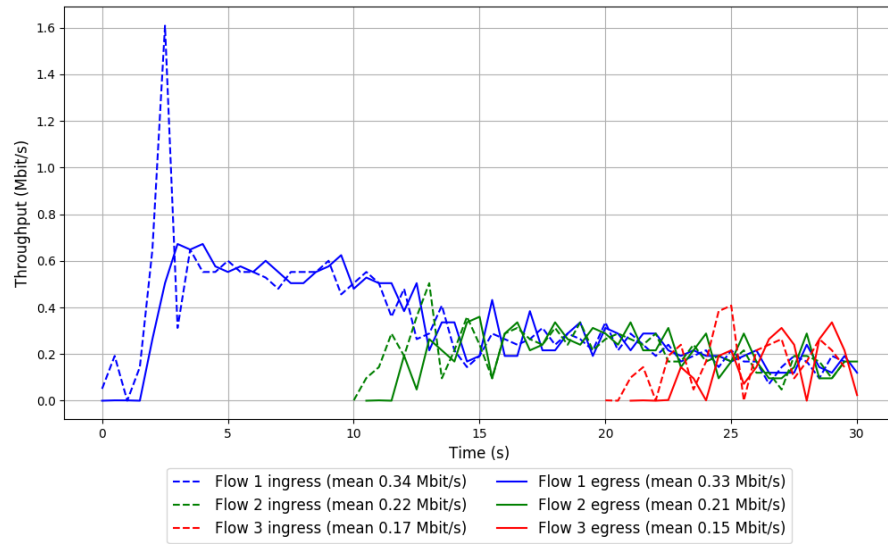


Run 3: Statistics of TCP Vegas

Start at: 2019-02-20 09:36:19
End at: 2019-02-20 09:36:49
Local clock offset: -59.593 ms
Remote clock offset: 5.902 ms

```
# Below is generated by plot.py at 2019-02-20 09:52:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 1847.705 ms
Loss rate: 5.76%
-- Flow 1:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 1648.739 ms
Loss rate: 2.73%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 1881.313 ms
Loss rate: 6.16%
-- Flow 3:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 1914.072 ms
Loss rate: 23.32%
```

Run 3: Report of TCP Vegas — Data Link

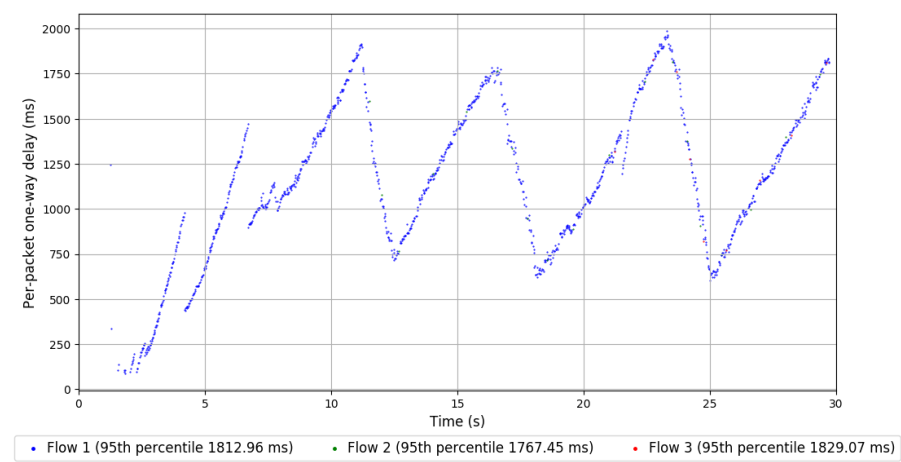
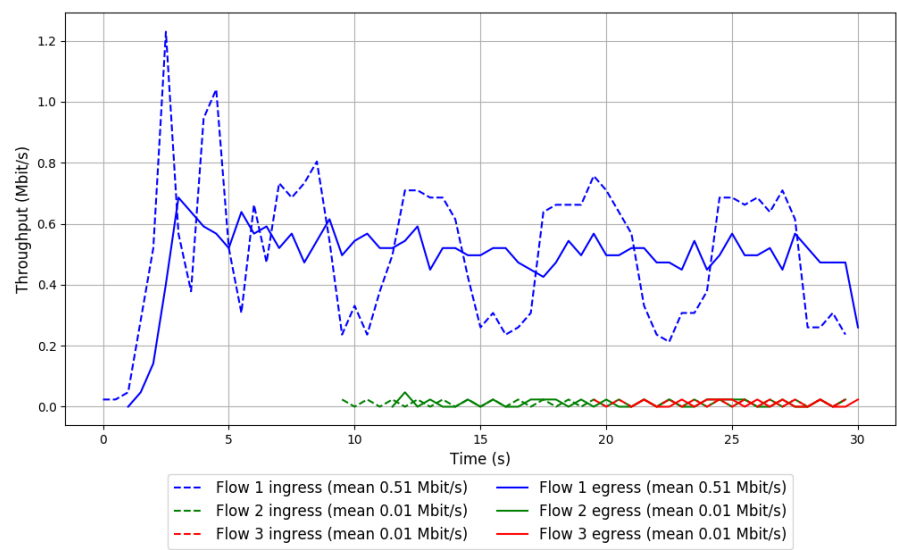


Run 1: Statistics of Verus

Start at: 2019-02-20 08:40:50
End at: 2019-02-20 08:41:20
Local clock offset: -58.361 ms
Remote clock offset: 6.296 ms

Below is generated by plot.py at 2019-02-20 09:52:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 1812.965 ms
Loss rate: 4.05%
-- Flow 1:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 1812.965 ms
Loss rate: 3.83%
-- Flow 2:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 1767.449 ms
Loss rate: 9.52%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 1829.067 ms
Loss rate: 18.18%

Run 1: Report of Verus — Data Link

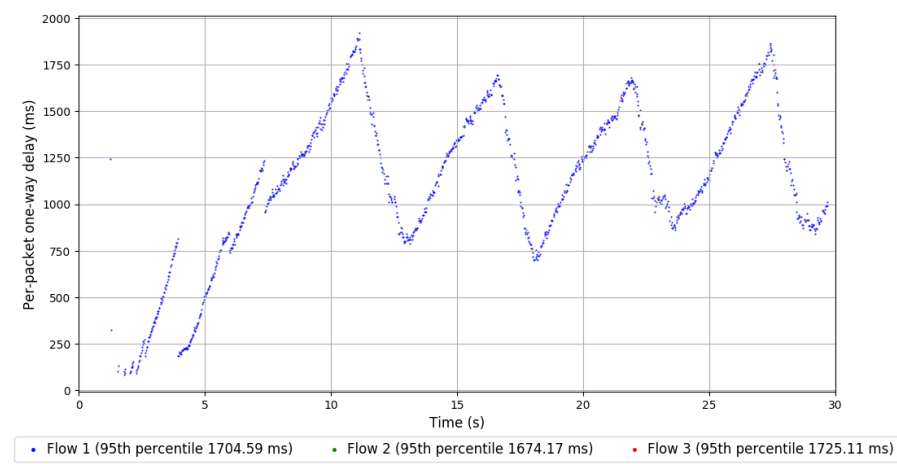
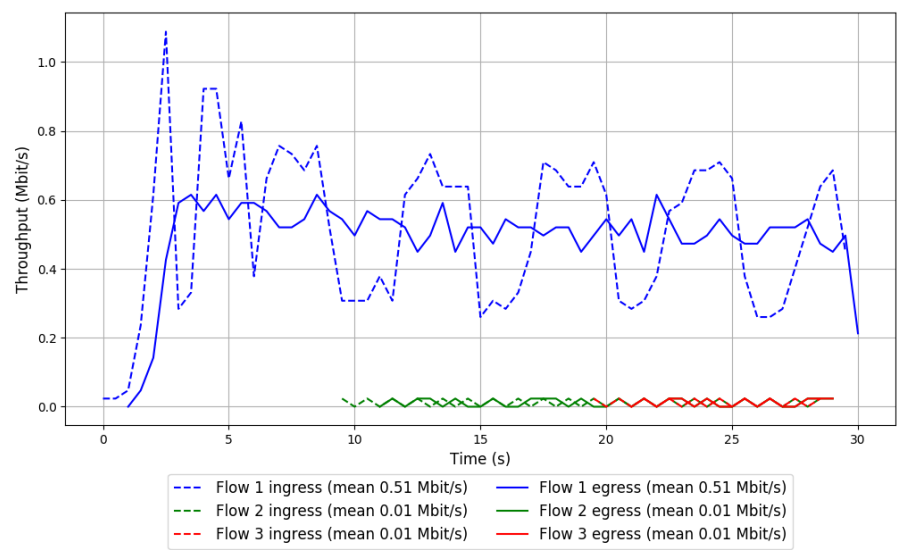


Run 2: Statistics of Verus

Start at: 2019-02-20 09:06:46
End at: 2019-02-20 09:07:16
Local clock offset: -57.074 ms
Remote clock offset: 9.007 ms

Below is generated by plot.py at 2019-02-20 09:52:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 1704.585 ms
Loss rate: 4.89%
-- Flow 1:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 1704.585 ms
Loss rate: 4.85%
-- Flow 2:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 1674.174 ms
Loss rate: 5.00%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 1725.113 ms
Loss rate: 10.00%

Run 2: Report of Verus — Data Link

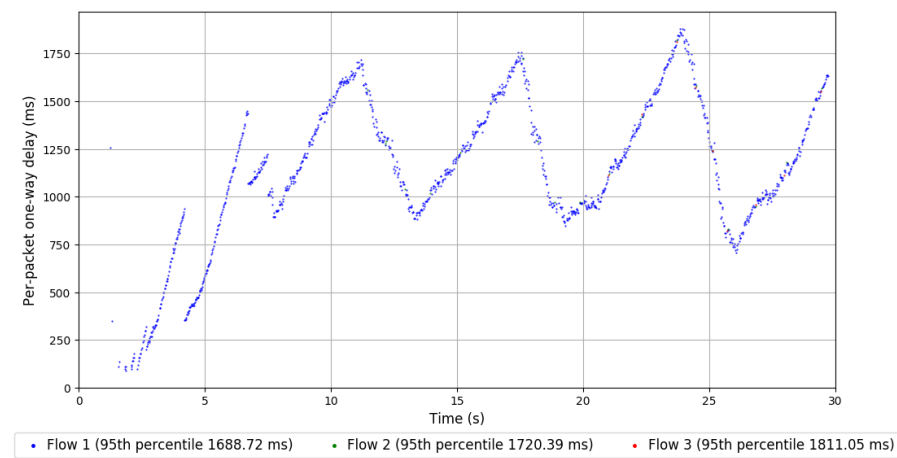
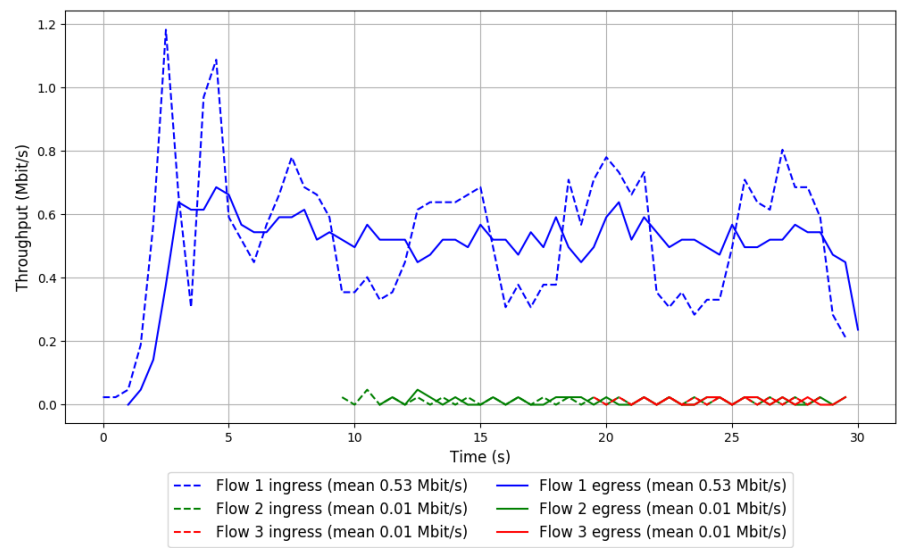


Run 3: Statistics of Verus

Start at: 2019-02-20 09:32:37
End at: 2019-02-20 09:33:07
Local clock offset: -58.351 ms
Remote clock offset: 2.143 ms

Below is generated by plot.py at 2019-02-20 09:52:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 1695.192 ms
Loss rate: 5.28%
-- Flow 1:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 1688.718 ms
Loss rate: 5.25%
-- Flow 2:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 1720.386 ms
Loss rate: 4.76%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 1811.053 ms
Loss rate: 10.00%

Run 3: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

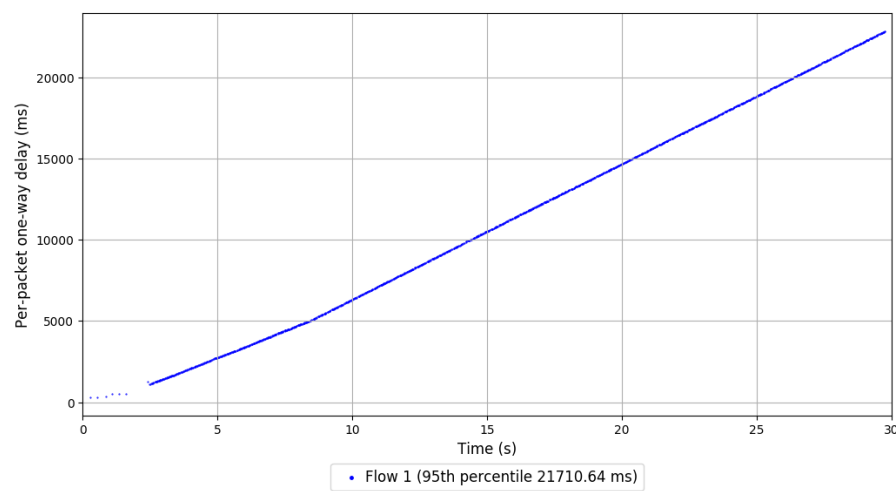
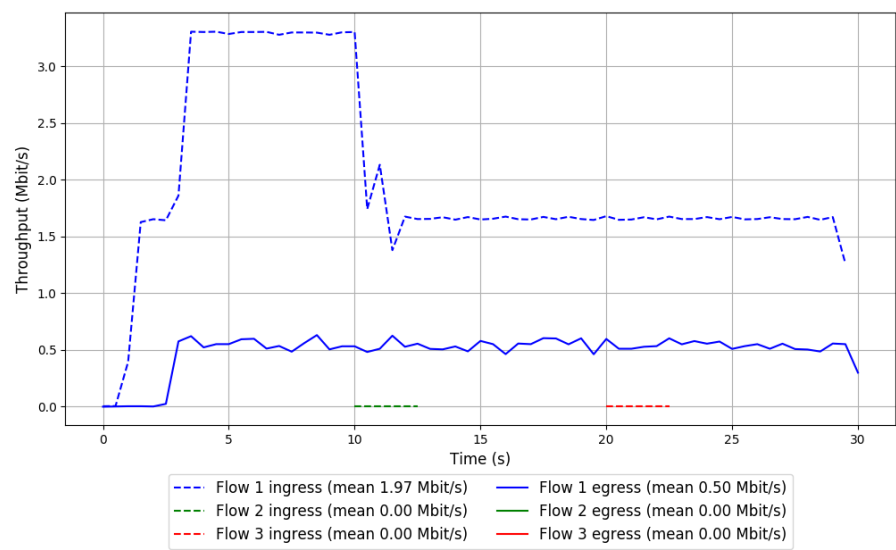
Start at: 2019-02-20 08:42:04

End at: 2019-02-20 08:42:34

Local clock offset: -58.236 ms

Remote clock offset: 7.223 ms

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

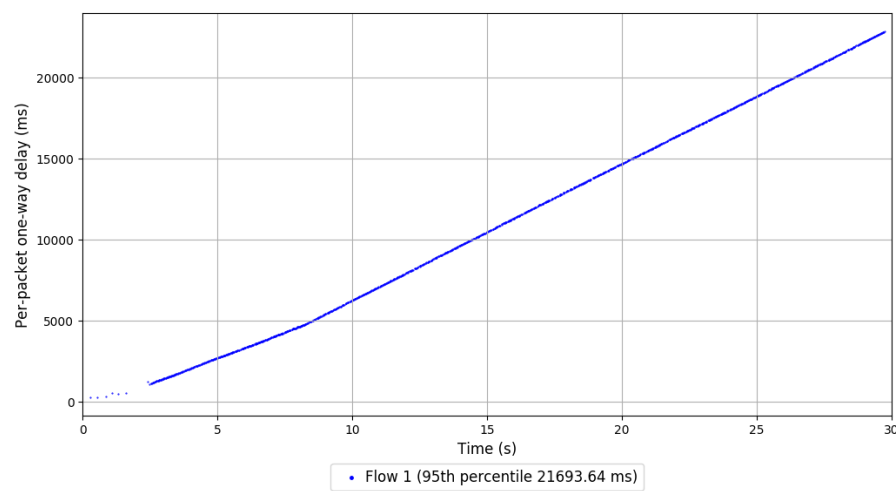
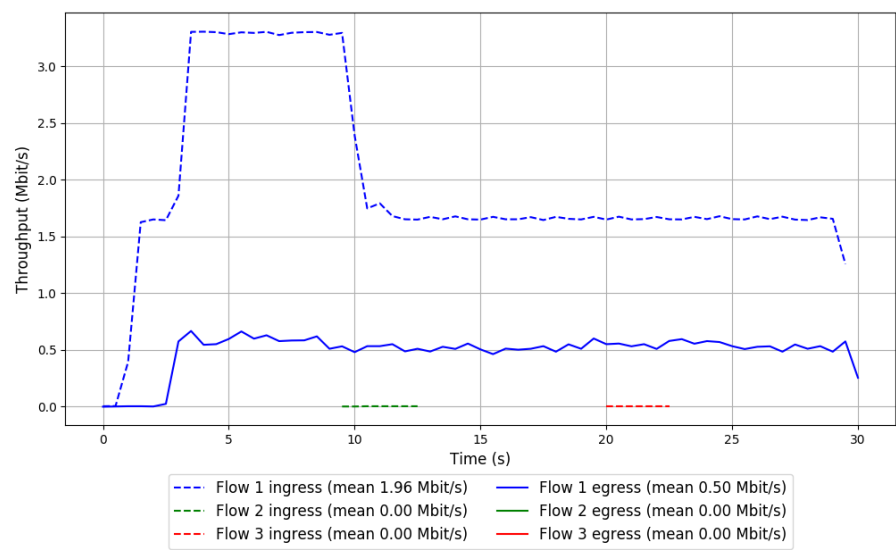
Start at: 2019-02-20 09:07:59

End at: 2019-02-20 09:08:29

Local clock offset: -57.102 ms

Remote clock offset: 3.798 ms

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

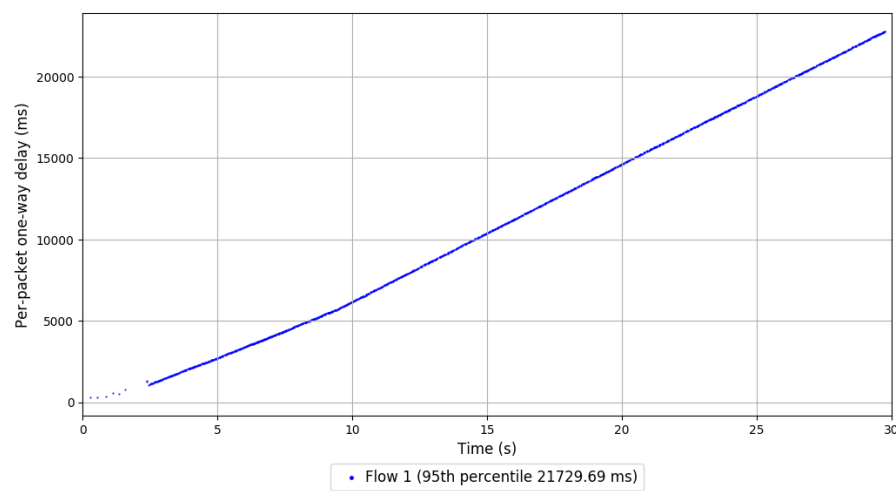
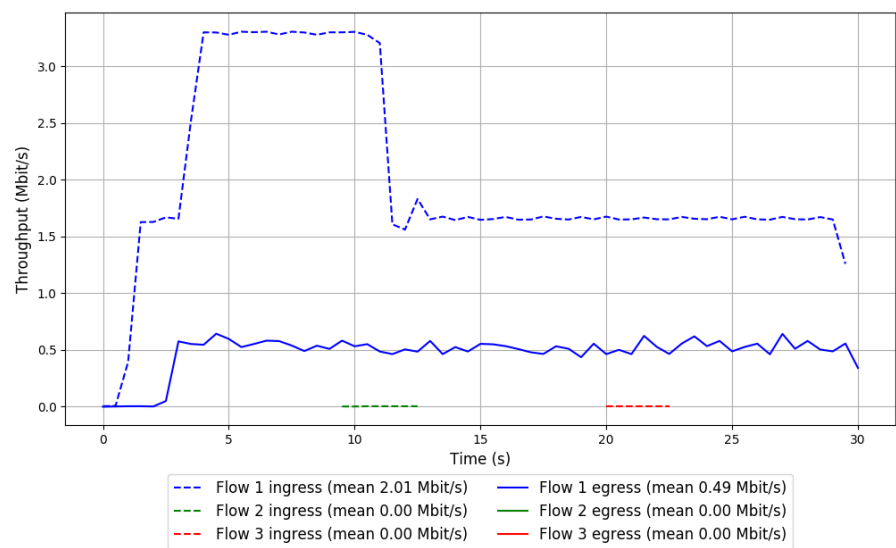
Start at: 2019-02-20 09:33:50

End at: 2019-02-20 09:34:20

Local clock offset: -58.821 ms

Remote clock offset: 6.037 ms

Run 3: Report of PCC-Vivace — Data Link

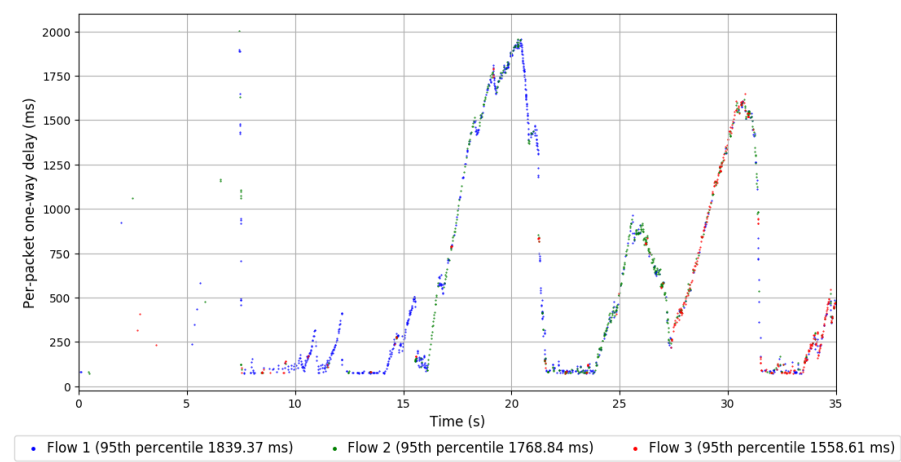
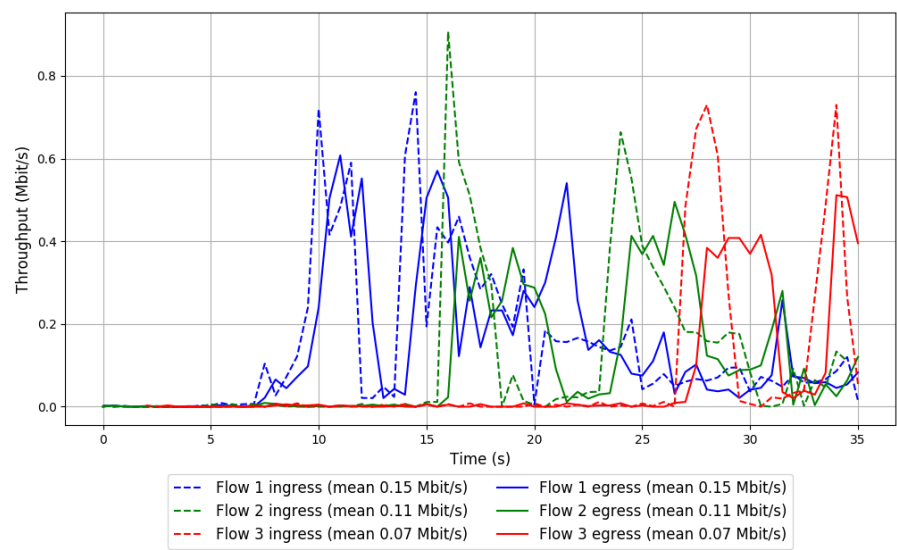


Run 1: Statistics of WebRTC media

Start at: 2019-02-20 08:56:53
End at: 2019-02-20 08:57:23
Local clock offset: -56.824 ms
Remote clock offset: 2.832 ms

Below is generated by plot.py at 2019-02-20 09:52:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 1792.450 ms
Loss rate: 2.34%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 1839.373 ms
Loss rate: 1.13%
-- Flow 2:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 1768.835 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 1558.607 ms
Loss rate: 6.65%

Run 1: Report of WebRTC media — Data Link

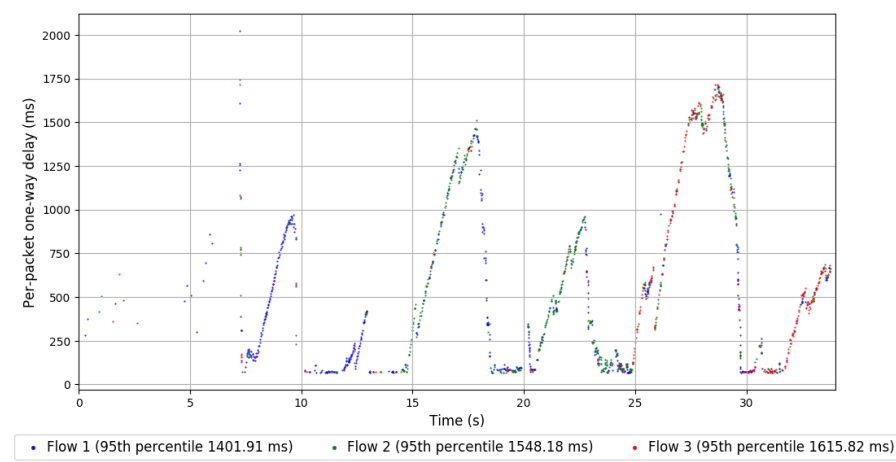
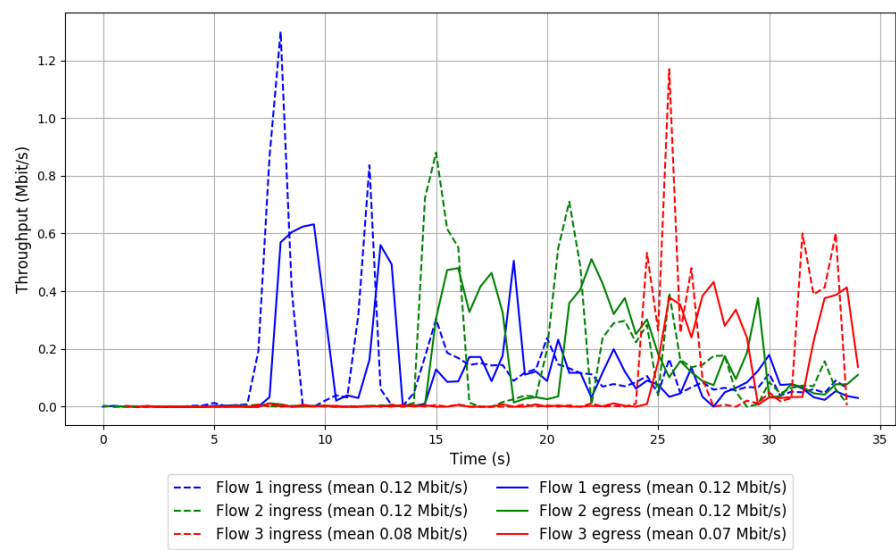


Run 2: Statistics of WebRTC media

Start at: 2019-02-20 09:22:47
End at: 2019-02-20 09:23:17
Local clock offset: -57.155 ms
Remote clock offset: 7.351 ms

Below is generated by plot.py at 2019-02-20 09:52:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 1545.499 ms
Loss rate: 2.97%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 1401.907 ms
Loss rate: 1.63%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 1548.184 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 1615.816 ms
Loss rate: 9.27%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-02-20 09:48:38
End at: 2019-02-20 09:49:08
Local clock offset: -61.674 ms
Remote clock offset: 3.466 ms

Below is generated by plot.py at 2019-02-20 09:52:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 1300.251 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 1247.100 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 1319.211 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 1331.973 ms
Loss rate: 3.63%

Run 3: Report of WebRTC media — Data Link

