

Pantheon Report

Generated at 2019-03-09 05:44:54 (UTC).

Data path: GCE Tokyo on **ens4** (*local*) → GCE London on **ens4** (*remote*).

Repeated the test of 21 congestion control schemes 5 times.

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

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

System info:

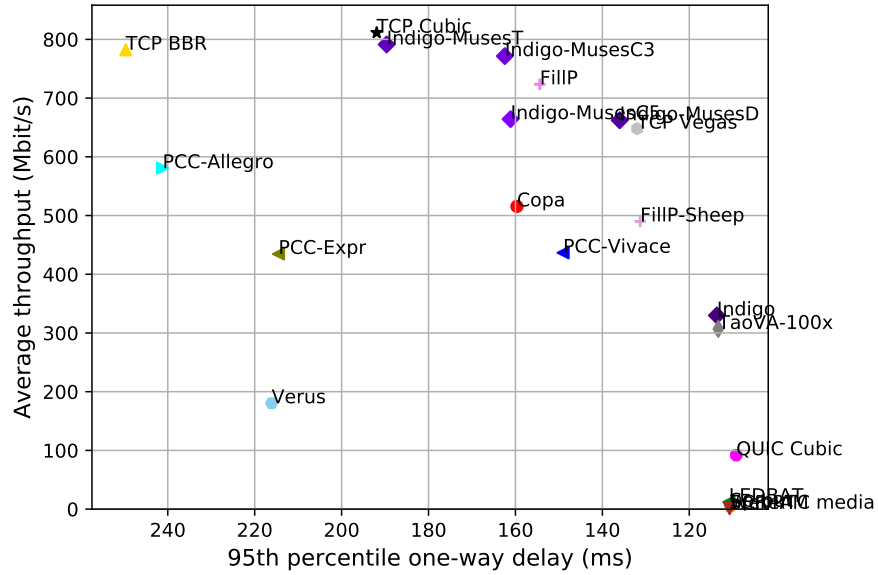
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

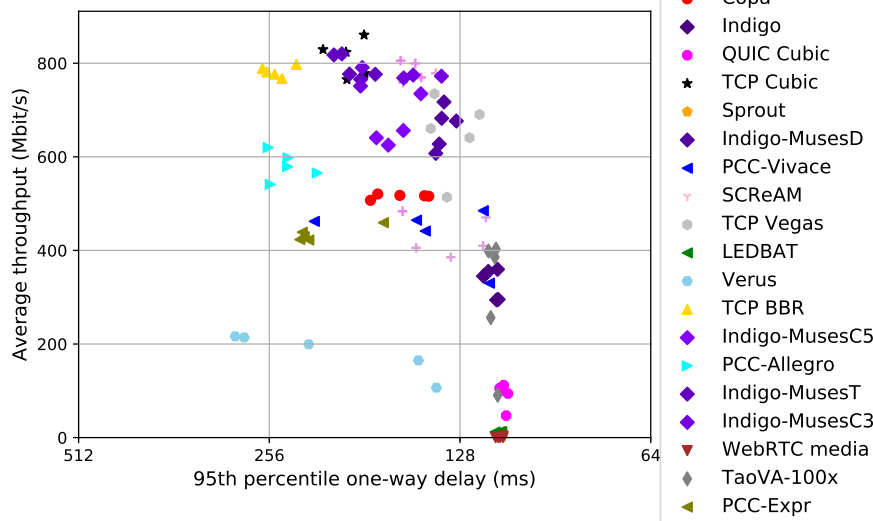
```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
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 GCE Tokyo to GCE London, 5 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE Tokyo to GCE London, 5 runs of 30s each per scheme
 3 flows with 10s interval between flows



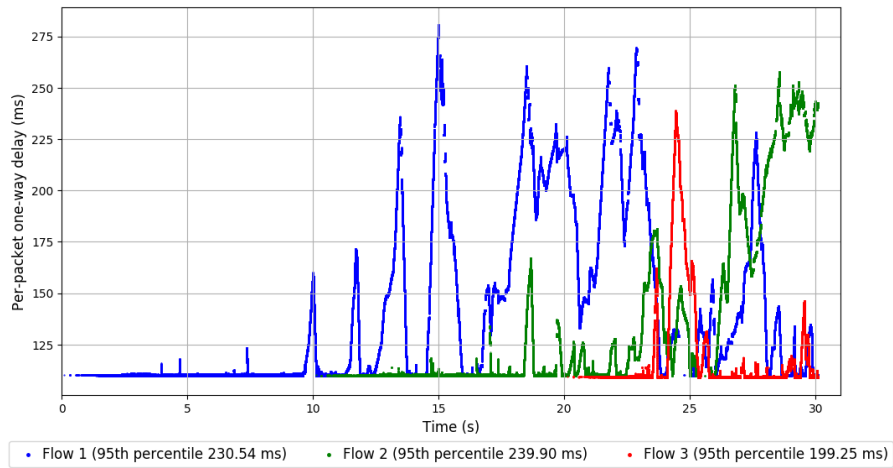
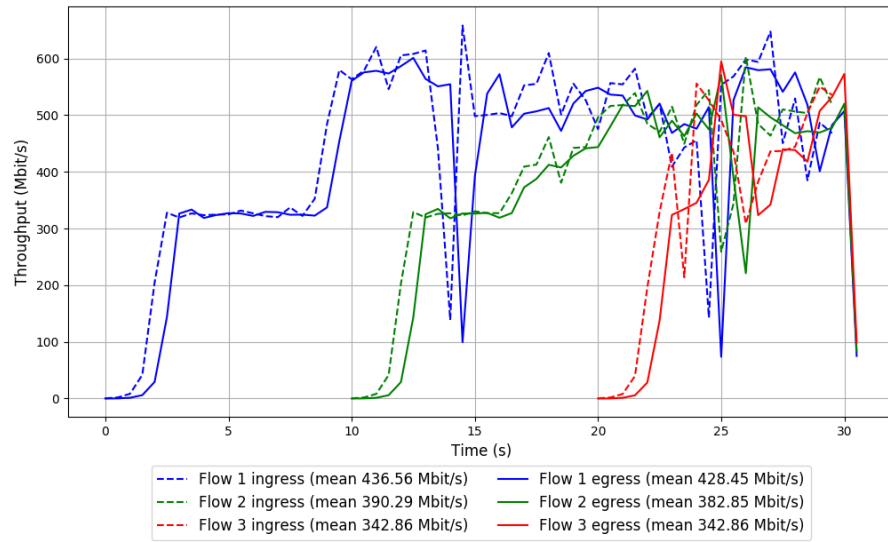
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	427.00	379.36	308.58	235.86	257.66	204.90	1.76	2.82	1.23
Copa	5	278.29	250.24	211.80	145.75	164.73	181.13	0.07	0.10	0.20
TCP Cubic	5	440.96	402.99	306.86	175.69	195.98	152.84	0.08	0.19	0.28
FillP	5	432.11	325.57	225.22	161.94	113.75	112.24	0.93	0.01	0.00
FillP-Sheep	5	209.60	306.68	230.64	145.59	113.86	112.17	0.49	0.00	0.00
Indigo	5	178.44	158.26	144.96	112.56	114.63	114.50	0.00	0.00	0.00
Indigo-MusesC3	5	451.88	376.16	280.43	178.81	133.29	114.49	0.19	0.01	0.01
Indigo-MusesC5	4	409.67	321.54	165.70	162.96	156.90	125.78	0.13	0.04	0.01
Indigo-MusesD	5	386.79	361.44	159.78	139.09	134.95	110.81	0.00	0.00	0.02
Indigo-MusesT	5	486.52	407.03	167.61	196.17	149.97	116.34	0.28	0.03	0.02
LEDBAT	5	7.85	5.18	2.54	110.17	110.60	110.21	0.00	0.00	0.00
PCC-Allegro	5	309.31	294.89	229.35	207.47	226.65	236.94	3.51	3.94	2.43
PCC-Expr	5	252.96	188.78	170.07	209.67	169.46	185.06	2.64	0.45	0.99
QUIC Cubic	5	46.52	49.46	38.75	109.23	108.95	108.87	0.00	0.00	0.00
SCReAM	5	0.22	0.21	0.22	109.72	110.59	110.12	0.00	0.00	0.00
Sprout	5	2.46	2.03	0.82	110.23	110.14	109.45	0.00	0.00	0.00
TaoVA-100x	5	166.25	124.28	174.42	112.85	112.03	113.71	0.00	0.00	0.01
TCP Vegas	5	326.19	328.22	310.52	125.24	135.75	142.79	0.03	0.11	0.06
Verus	5	121.70	64.32	50.17	205.63	176.03	208.93	1.95	1.09	2.90
PCC-Vivace	5	282.34	169.39	125.93	157.91	115.76	132.56	0.00	0.00	0.01
WebRTC media	5	0.44	0.28	0.10	110.74	109.98	109.20	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-03-09 00:47:07
End at: 2019-03-09 00:47:37
Local clock offset: -0.849 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2019-03-09 03:49:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 797.45 Mbit/s
95th percentile per-packet one-way delay: 232.027 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 428.45 Mbit/s
95th percentile per-packet one-way delay: 230.538 ms
Loss rate: 1.86%
-- Flow 2:
Average throughput: 382.85 Mbit/s
95th percentile per-packet one-way delay: 239.903 ms
Loss rate: 1.91%
-- Flow 3:
Average throughput: 342.86 Mbit/s
95th percentile per-packet one-way delay: 199.245 ms
Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link

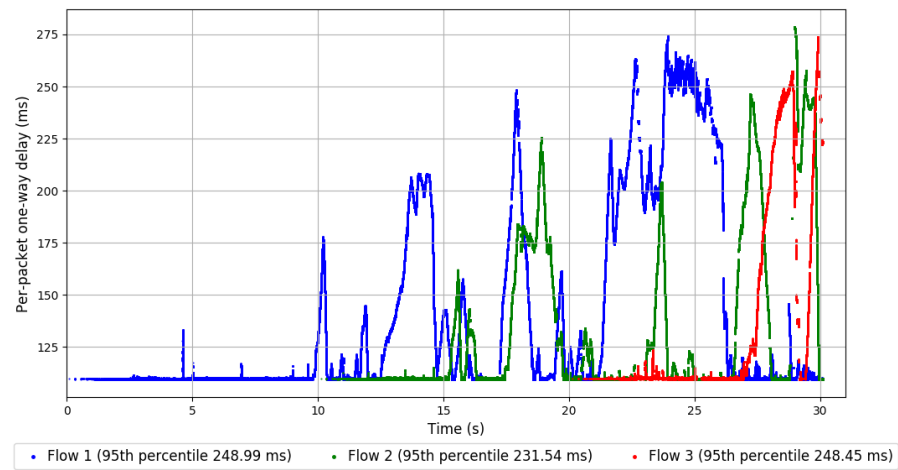
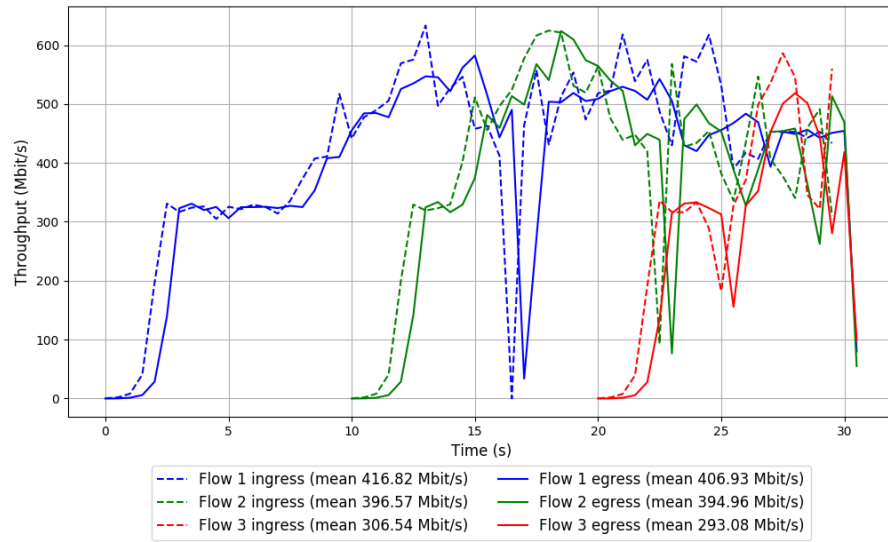


Run 2: Statistics of TCP BBR

Start at: 2019-03-09 01:24:27
End at: 2019-03-09 01:24:57
Local clock offset: -0.005 ms
Remote clock offset: -0.123 ms

Below is generated by plot.py at 2019-03-09 03:49:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 767.40 Mbit/s
95th percentile per-packet one-way delay: 244.481 ms
Loss rate: 1.97%
-- Flow 1:
Average throughput: 406.93 Mbit/s
95th percentile per-packet one-way delay: 248.985 ms
Loss rate: 2.37%
-- Flow 2:
Average throughput: 394.96 Mbit/s
95th percentile per-packet one-way delay: 231.544 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 293.08 Mbit/s
95th percentile per-packet one-way delay: 248.448 ms
Loss rate: 4.39%

Run 2: Report of TCP BBR — Data Link

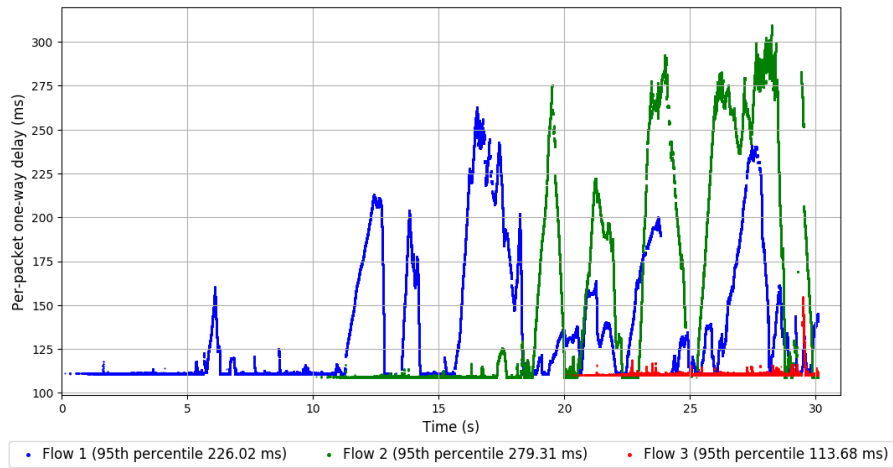
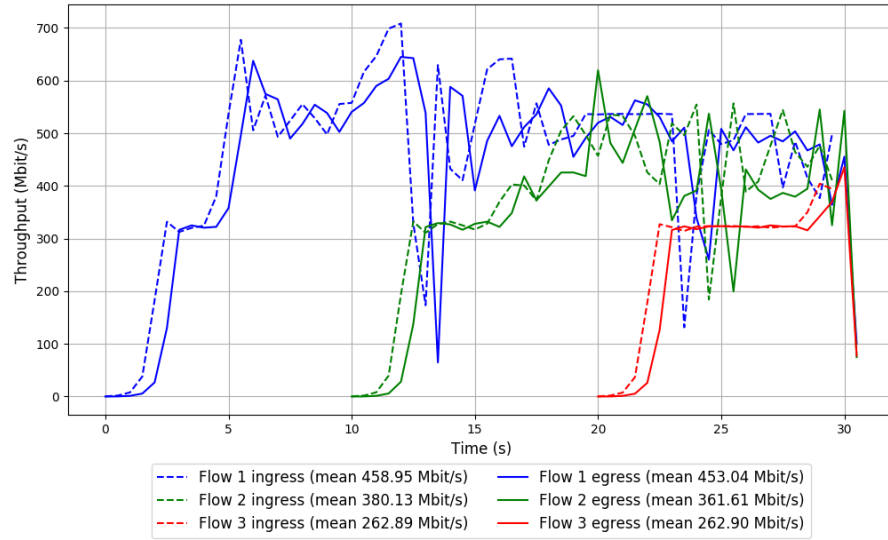


Run 3: Statistics of TCP BBR

Start at: 2019-03-09 02:01:55
End at: 2019-03-09 02:02:25
Local clock offset: -0.145 ms
Remote clock offset: -0.478 ms

Below is generated by plot.py at 2019-03-09 03:49:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 781.38 Mbit/s
95th percentile per-packet one-way delay: 258.208 ms
Loss rate: 2.28%
-- Flow 1:
Average throughput: 453.04 Mbit/s
95th percentile per-packet one-way delay: 226.021 ms
Loss rate: 1.29%
-- Flow 2:
Average throughput: 361.61 Mbit/s
95th percentile per-packet one-way delay: 279.308 ms
Loss rate: 4.87%
-- Flow 3:
Average throughput: 262.90 Mbit/s
95th percentile per-packet one-way delay: 113.683 ms
Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link

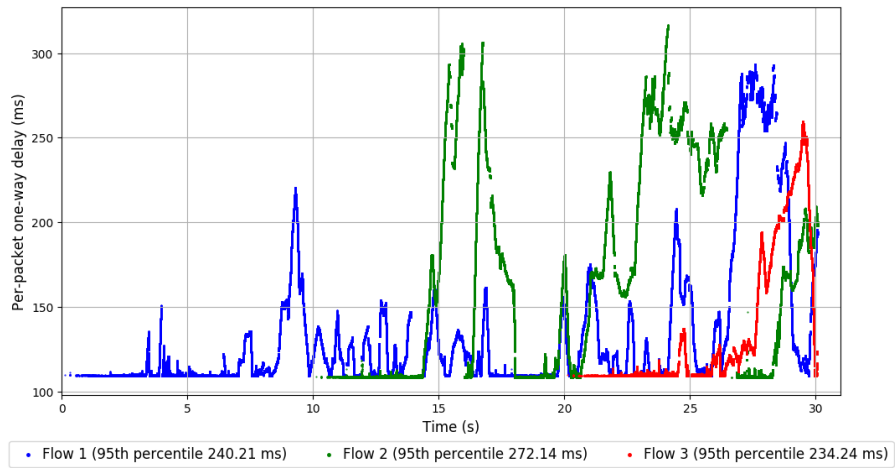
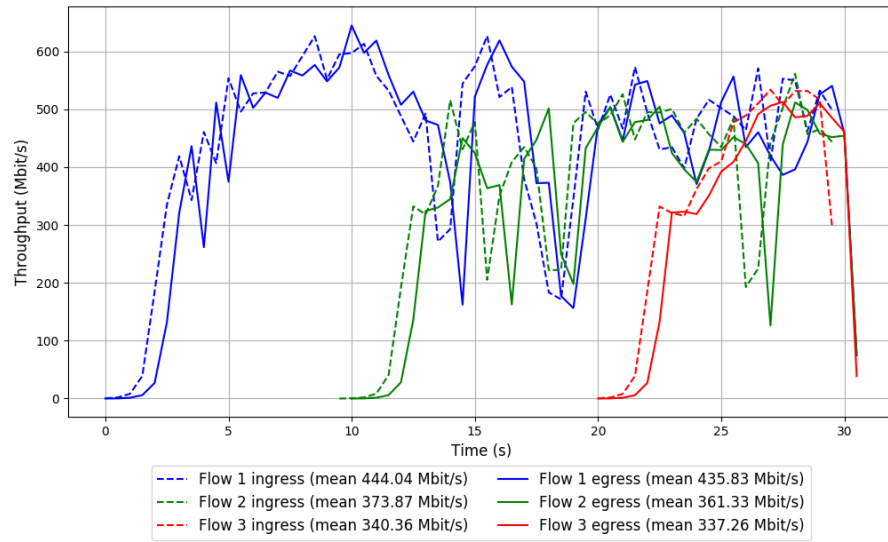


Run 4: Statistics of TCP BBR

Start at: 2019-03-09 02:39:47
End at: 2019-03-09 02:40:17
Local clock offset: -0.186 ms
Remote clock offset: -0.127 ms

Below is generated by plot.py at 2019-03-09 03:49:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 788.53 Mbit/s
95th percentile per-packet one-way delay: 262.517 ms
Loss rate: 2.18%
-- Flow 1:
Average throughput: 435.83 Mbit/s
95th percentile per-packet one-way delay: 240.211 ms
Loss rate: 1.84%
-- Flow 2:
Average throughput: 361.33 Mbit/s
95th percentile per-packet one-way delay: 272.138 ms
Loss rate: 3.35%
-- Flow 3:
Average throughput: 337.26 Mbit/s
95th percentile per-packet one-way delay: 234.236 ms
Loss rate: 0.90%

Run 4: Report of TCP BBR — Data Link

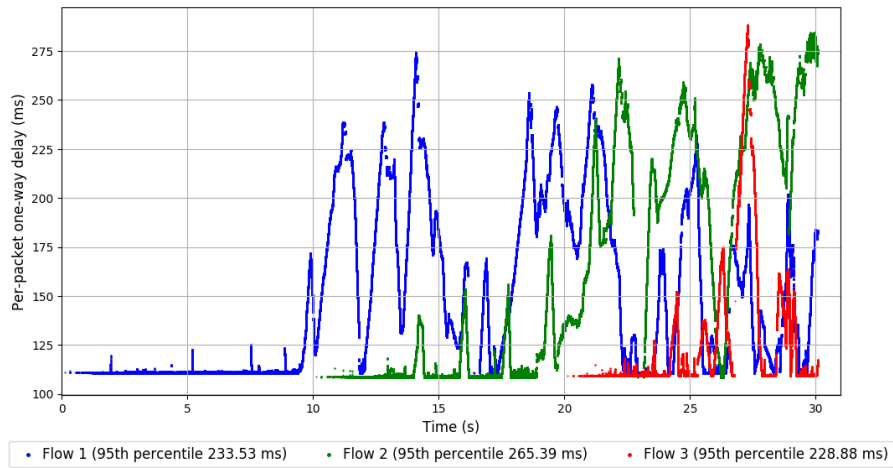
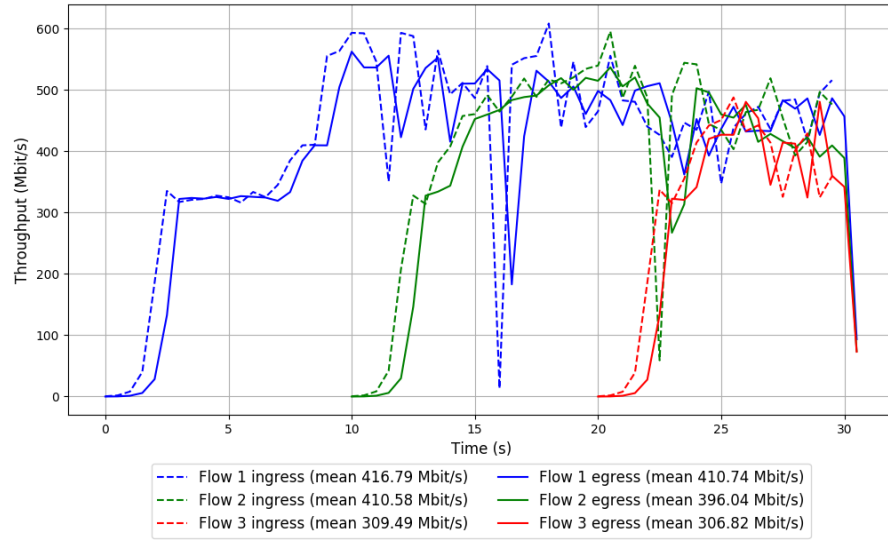


Run 5: Statistics of TCP BBR

Start at: 2019-03-09 03:16:59
End at: 2019-03-09 03:17:29
Local clock offset: -0.24 ms
Remote clock offset: -0.133 ms

Below is generated by plot.py at 2019-03-09 03:49:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 776.59 Mbit/s
95th percentile per-packet one-way delay: 251.054 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 410.74 Mbit/s
95th percentile per-packet one-way delay: 233.529 ms
Loss rate: 1.46%
-- Flow 2:
Average throughput: 396.04 Mbit/s
95th percentile per-packet one-way delay: 265.395 ms
Loss rate: 3.54%
-- Flow 3:
Average throughput: 306.82 Mbit/s
95th percentile per-packet one-way delay: 228.885 ms
Loss rate: 0.86%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-03-09 00:18:46

End at: 2019-03-09 00:19:16

Local clock offset: 0.891 ms

Remote clock offset: 0.098 ms

Below is generated by plot.py at 2019-03-09 03:52:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 517.56 Mbit/s

95th percentile per-packet one-way delay: 159.303 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 276.07 Mbit/s

95th percentile per-packet one-way delay: 142.971 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 251.58 Mbit/s

95th percentile per-packet one-way delay: 154.020 ms

Loss rate: 0.00%

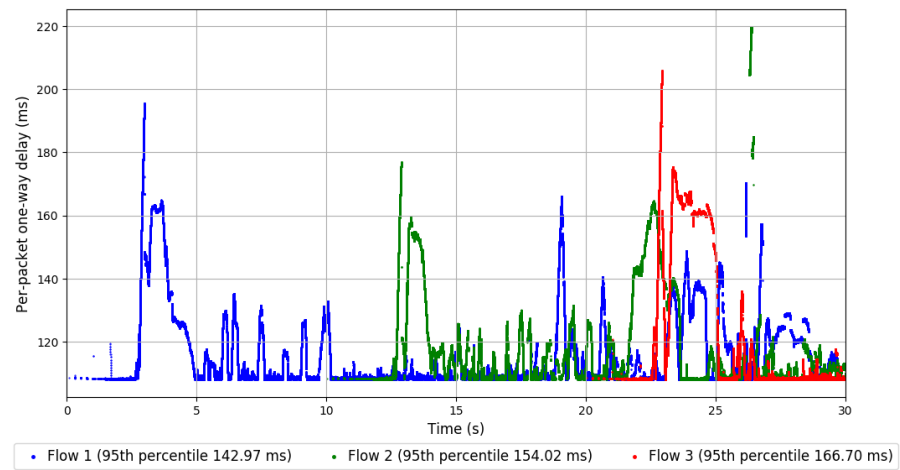
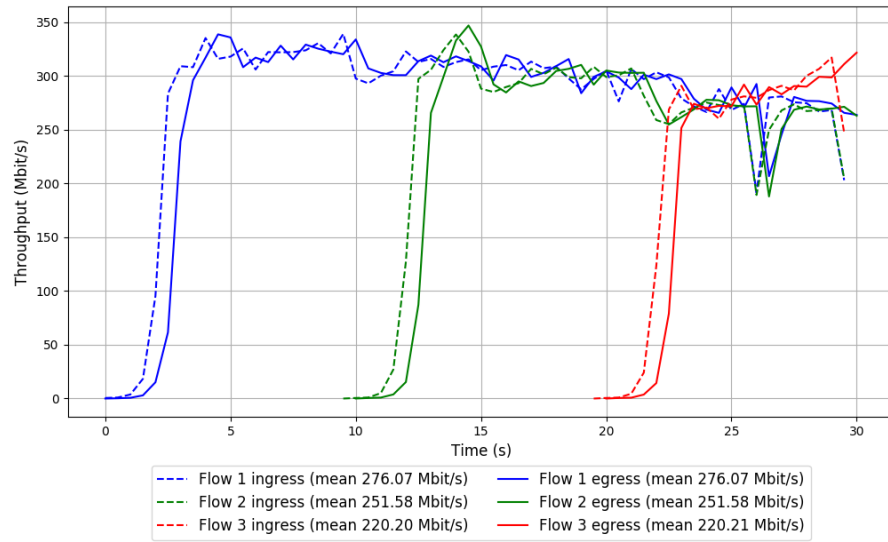
-- Flow 3:

Average throughput: 220.21 Mbit/s

95th percentile per-packet one-way delay: 166.703 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link

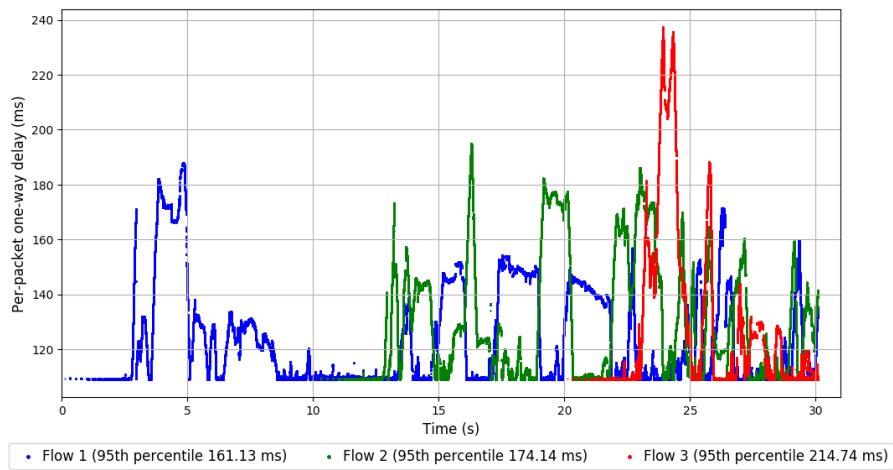
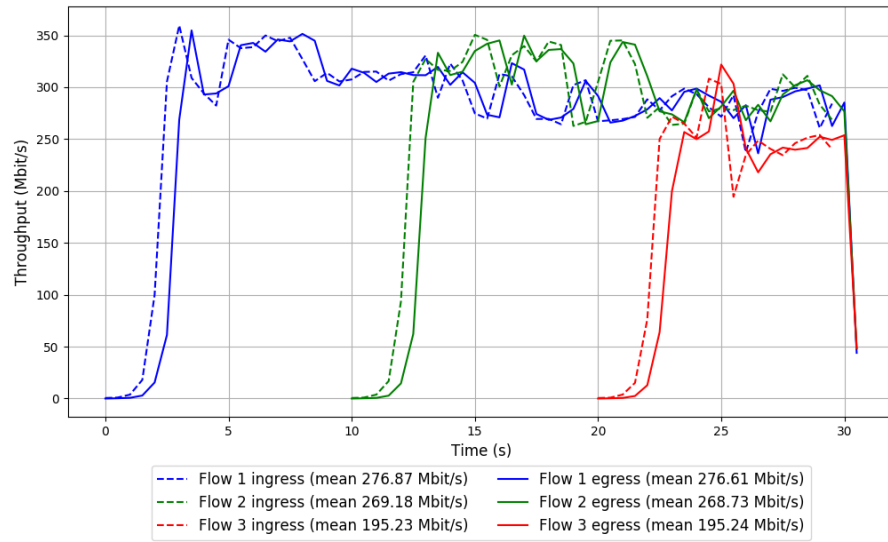


Run 2: Statistics of Copa

Start at: 2019-03-09 00:55:42
End at: 2019-03-09 00:56:12
Local clock offset: -0.076 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2019-03-09 03:52:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 520.50 Mbit/s
95th percentile per-packet one-way delay: 172.656 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 276.61 Mbit/s
95th percentile per-packet one-way delay: 161.126 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 268.73 Mbit/s
95th percentile per-packet one-way delay: 174.142 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 195.24 Mbit/s
95th percentile per-packet one-way delay: 214.742 ms
Loss rate: 0.00%

Run 2: Report of Copa — Data Link

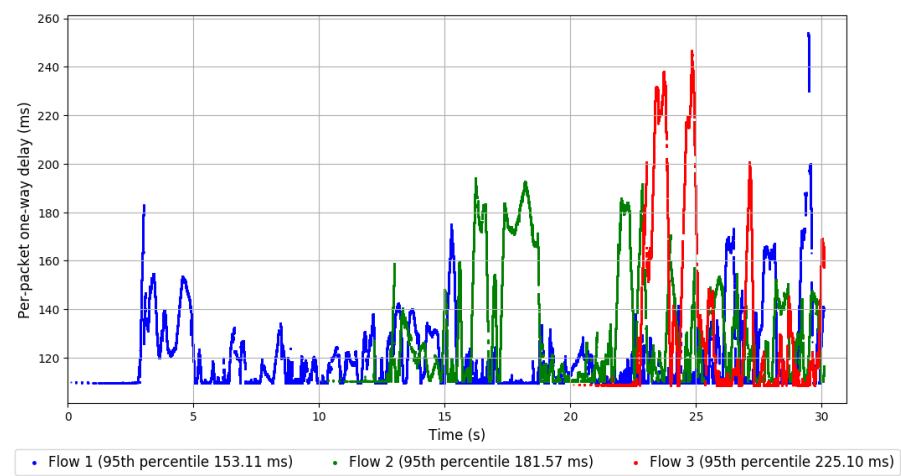
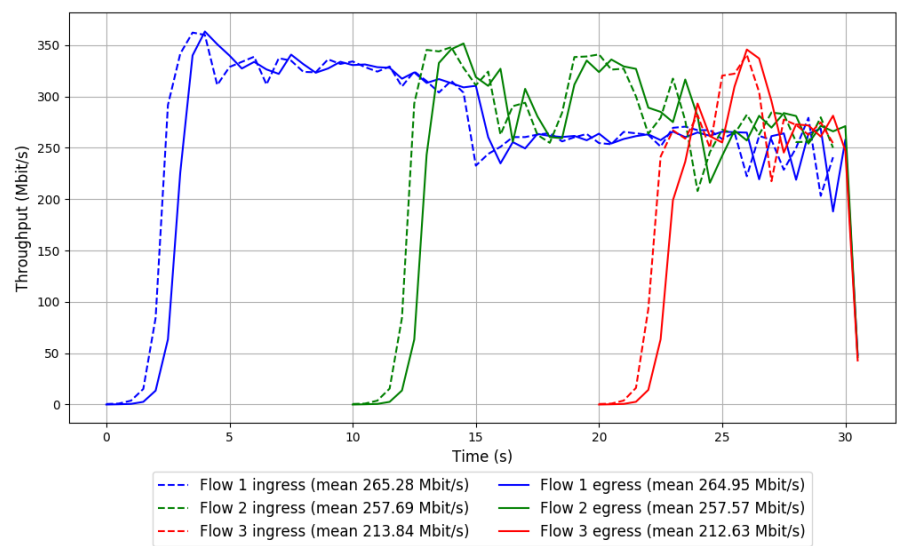


Run 3: Statistics of Copa

Start at: 2019-03-09 01:32:58
End at: 2019-03-09 01:33:28
Local clock offset: -0.25 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2019-03-09 03:52:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 507.15 Mbit/s
95th percentile per-packet one-way delay: 177.258 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 264.95 Mbit/s
95th percentile per-packet one-way delay: 153.114 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 257.57 Mbit/s
95th percentile per-packet one-way delay: 181.568 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 212.63 Mbit/s
95th percentile per-packet one-way delay: 225.104 ms
Loss rate: 0.56%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-03-09 02:10:32

End at: 2019-03-09 02:11:02

Local clock offset: -0.295 ms

Remote clock offset: 0.229 ms

Below is generated by plot.py at 2019-03-09 04:06:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 515.83 Mbit/s

95th percentile per-packet one-way delay: 143.419 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 278.83 Mbit/s

95th percentile per-packet one-way delay: 133.424 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 244.19 Mbit/s

95th percentile per-packet one-way delay: 154.999 ms

Loss rate: 0.05%

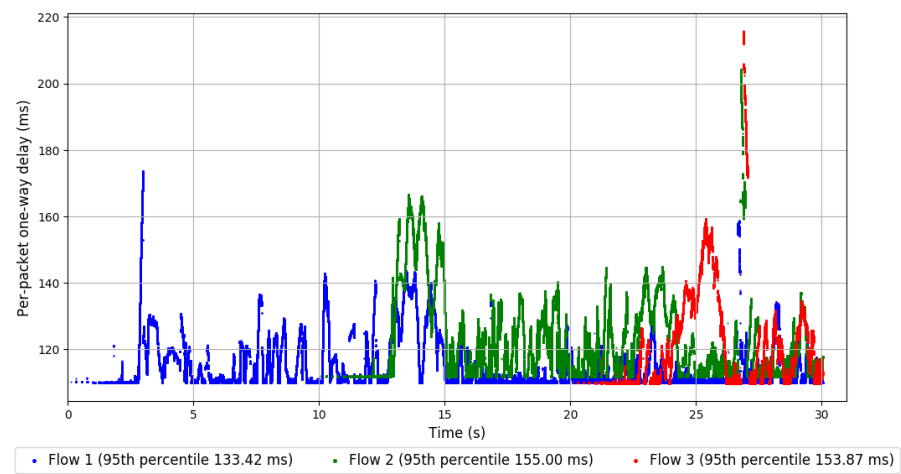
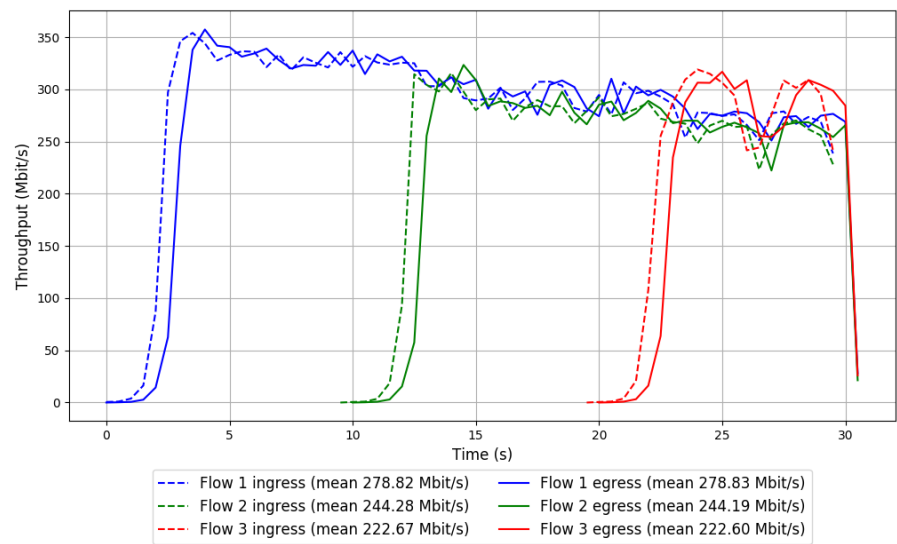
-- Flow 3:

Average throughput: 222.60 Mbit/s

95th percentile per-packet one-way delay: 153.872 ms

Loss rate: 0.03%

Run 4: Report of Copa — Data Link

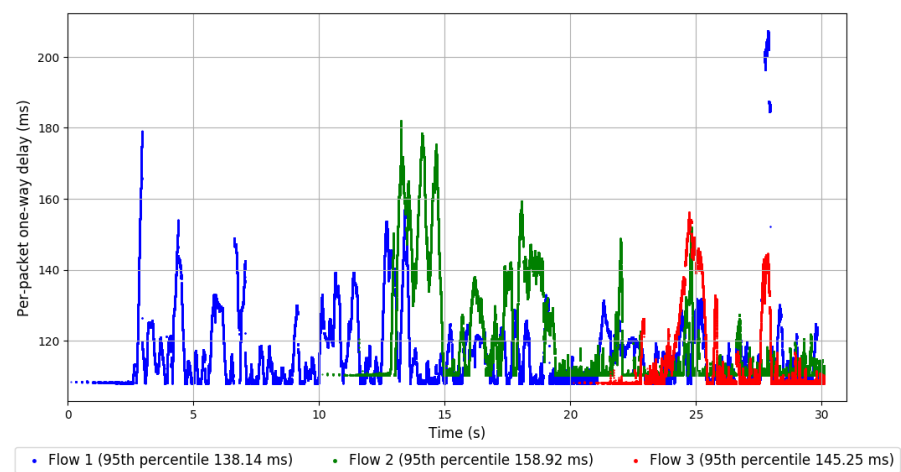
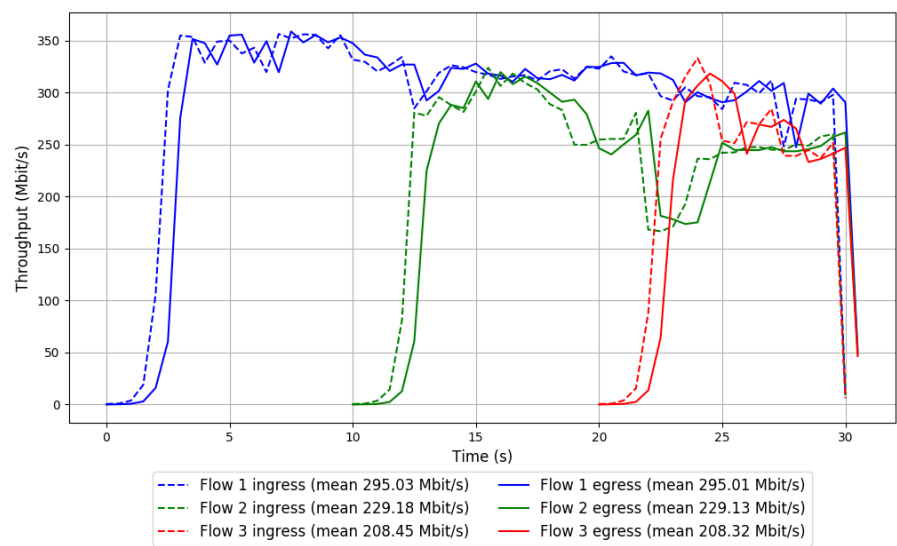


Run 5: Statistics of Copa

Start at: 2019-03-09 02:48:30
End at: 2019-03-09 02:49:00
Local clock offset: -0.209 ms
Remote clock offset: -0.454 ms

Below is generated by plot.py at 2019-03-09 04:06:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 516.78 Mbit/s
95th percentile per-packet one-way delay: 145.645 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 295.01 Mbit/s
95th percentile per-packet one-way delay: 138.140 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 229.13 Mbit/s
95th percentile per-packet one-way delay: 158.923 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 208.32 Mbit/s
95th percentile per-packet one-way delay: 145.250 ms
Loss rate: 0.40%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-03-09 00:24:49

End at: 2019-03-09 00:25:19

Local clock offset: -0.014 ms

Remote clock offset: 0.057 ms

Below is generated by plot.py at 2019-03-09 04:06:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 829.31 Mbit/s

95th percentile per-packet one-way delay: 210.586 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 461.94 Mbit/s

95th percentile per-packet one-way delay: 207.832 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 398.92 Mbit/s

95th percentile per-packet one-way delay: 218.830 ms

Loss rate: 0.08%

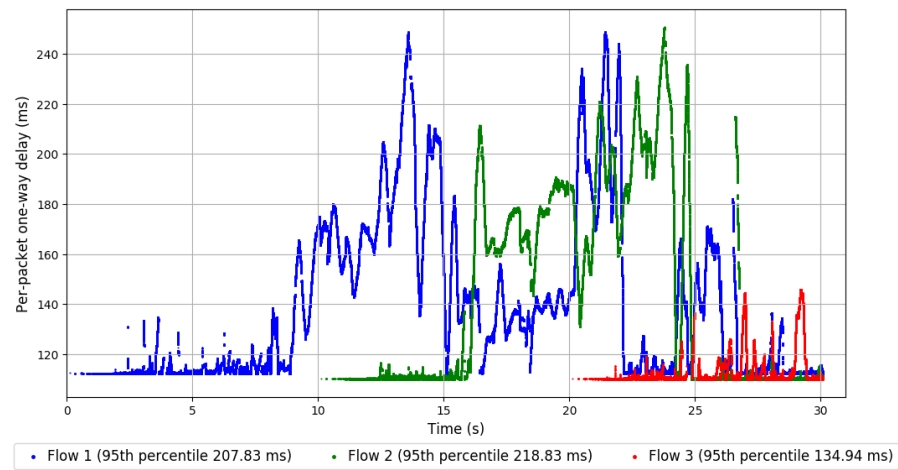
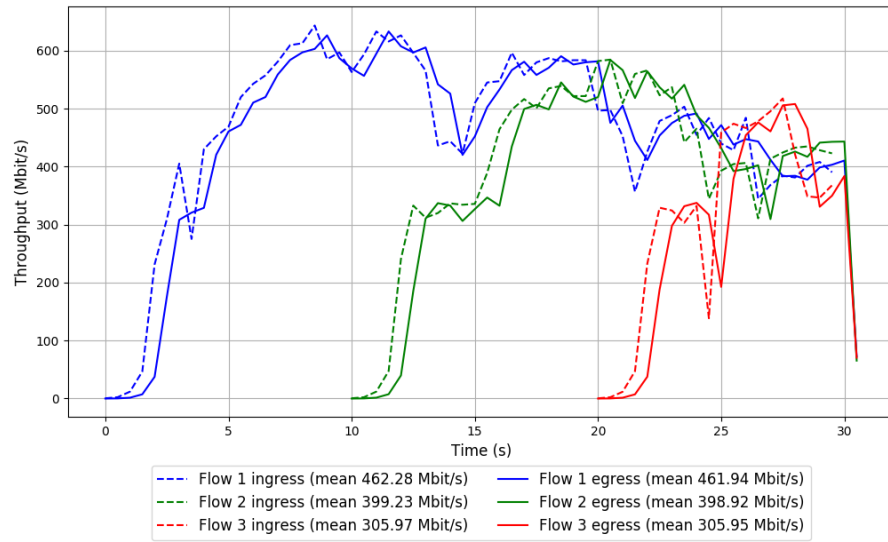
-- Flow 3:

Average throughput: 305.95 Mbit/s

95th percentile per-packet one-way delay: 134.936 ms

Loss rate: 0.01%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-03-09 01:01:33

End at: 2019-03-09 01:02:03

Local clock offset: -0.496 ms

Remote clock offset: 0.308 ms

Below is generated by plot.py at 2019-03-09 04:06:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 860.53 Mbit/s

95th percentile per-packet one-way delay: 181.406 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 476.95 Mbit/s

95th percentile per-packet one-way delay: 186.765 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 432.07 Mbit/s

95th percentile per-packet one-way delay: 160.704 ms

Loss rate: 0.20%

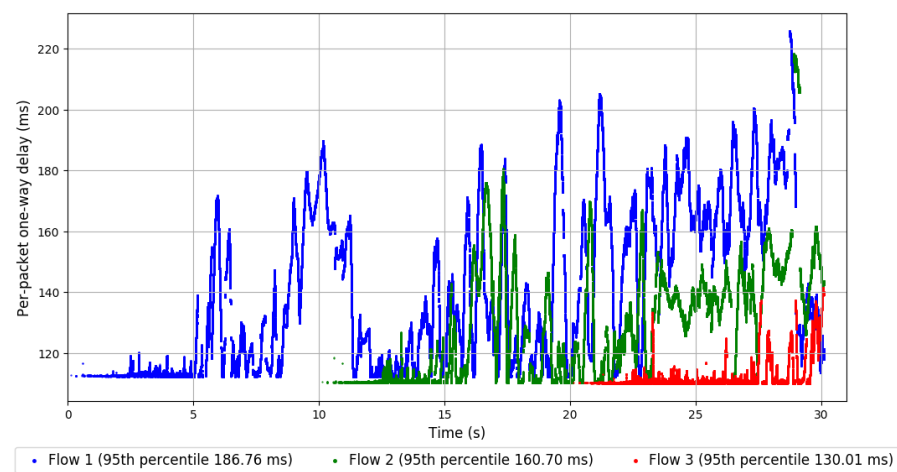
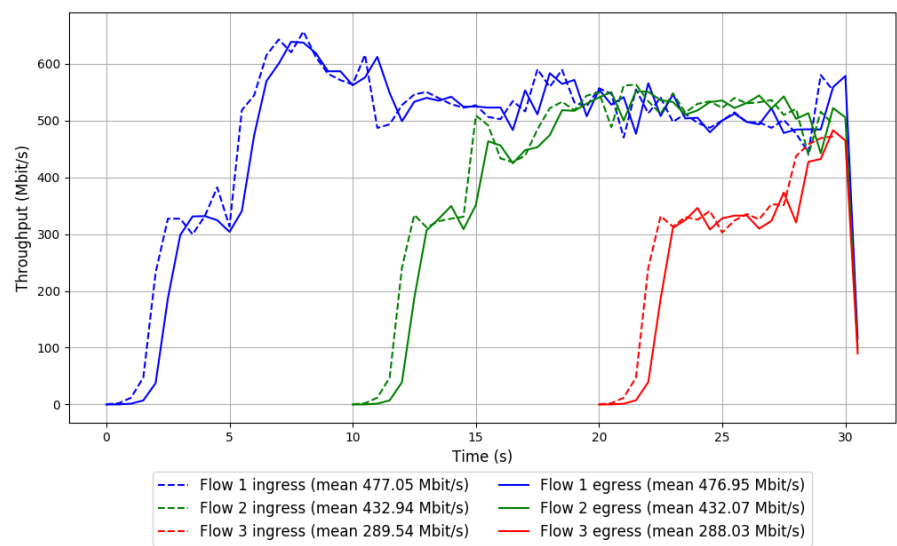
-- Flow 3:

Average throughput: 288.03 Mbit/s

95th percentile per-packet one-way delay: 130.012 ms

Loss rate: 0.52%

Run 2: Report of TCP Cubic — Data Link

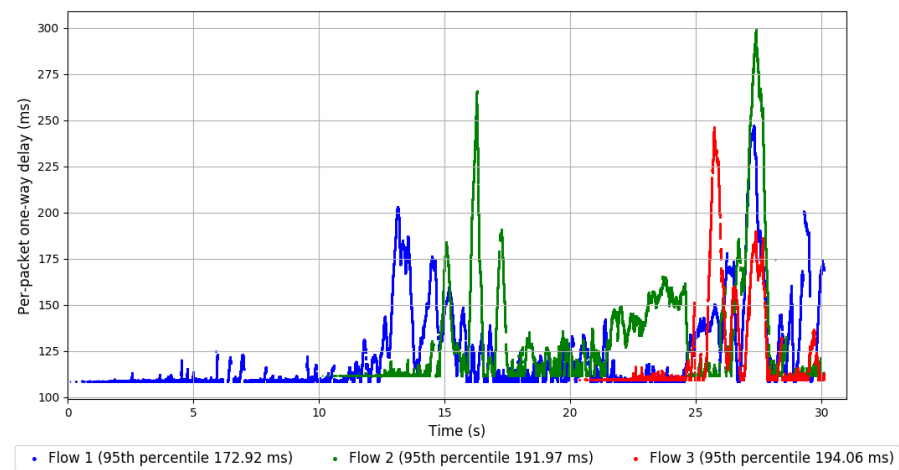
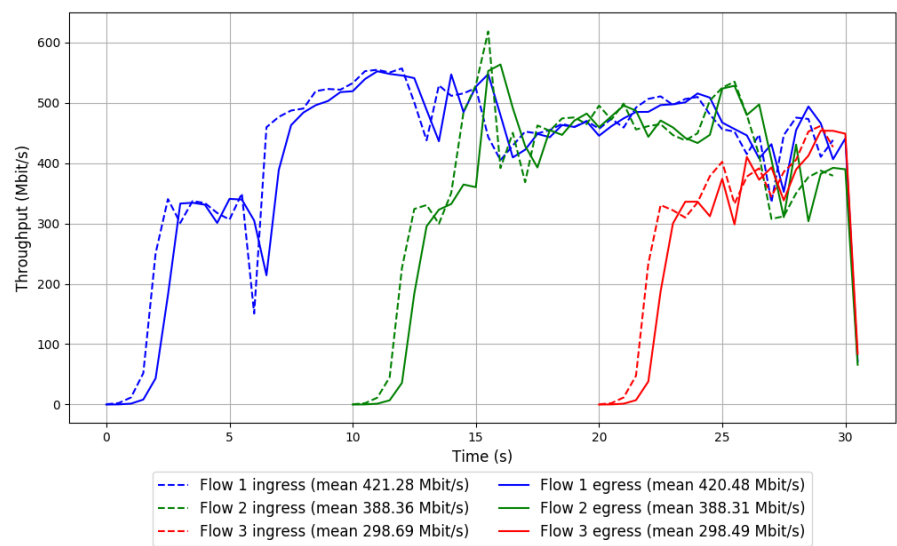


Run 3: Statistics of TCP Cubic

Start at: 2019-03-09 01:38:57
End at: 2019-03-09 01:39:27
Local clock offset: -0.167 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2019-03-09 04:06:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 778.22 Mbit/s
95th percentile per-packet one-way delay: 180.870 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 420.48 Mbit/s
95th percentile per-packet one-way delay: 172.921 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 388.31 Mbit/s
95th percentile per-packet one-way delay: 191.968 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 298.49 Mbit/s
95th percentile per-packet one-way delay: 194.058 ms
Loss rate: 0.06%

Run 3: Report of TCP Cubic — Data Link

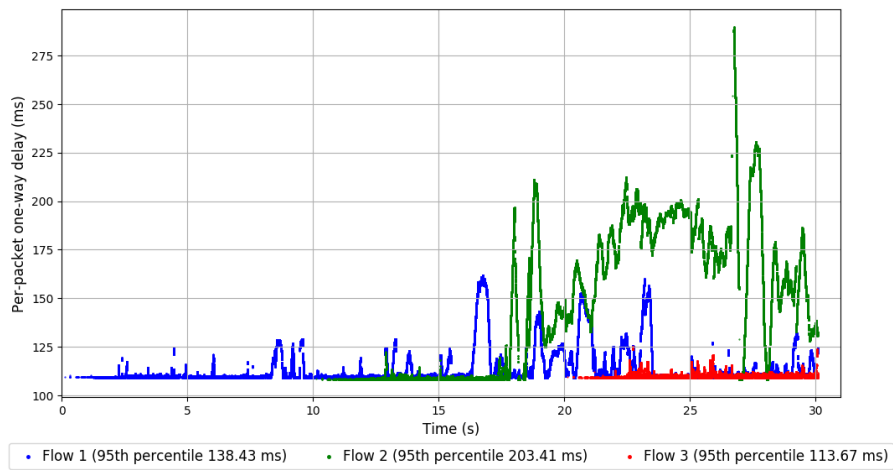
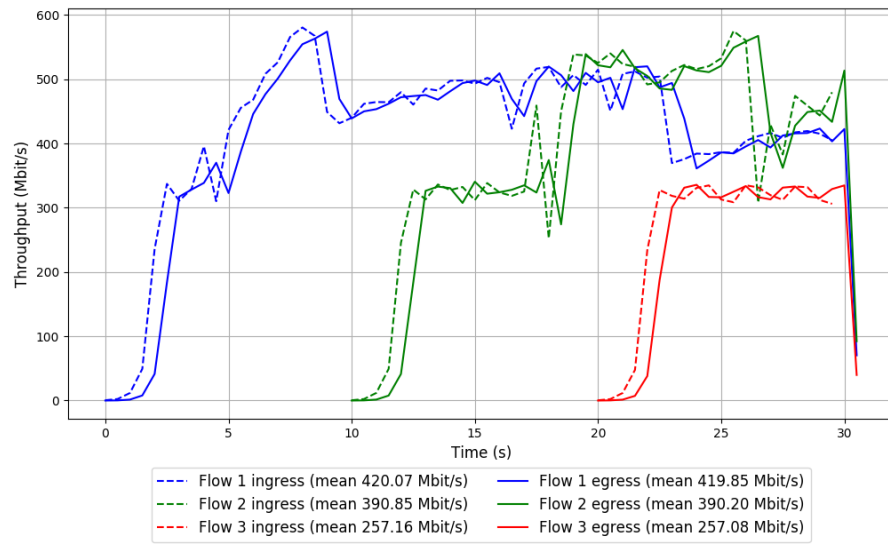


Run 4: Statistics of TCP Cubic

Start at: 2019-03-09 02:16:42
End at: 2019-03-09 02:17:12
Local clock offset: -0.131 ms
Remote clock offset: -0.083 ms

Below is generated by plot.py at 2019-03-09 04:06:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 765.13 Mbit/s
95th percentile per-packet one-way delay: 193.095 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 419.85 Mbit/s
95th percentile per-packet one-way delay: 138.425 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 390.20 Mbit/s
95th percentile per-packet one-way delay: 203.406 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 257.08 Mbit/s
95th percentile per-packet one-way delay: 113.667 ms
Loss rate: 0.02%

Run 4: Report of TCP Cubic — Data Link

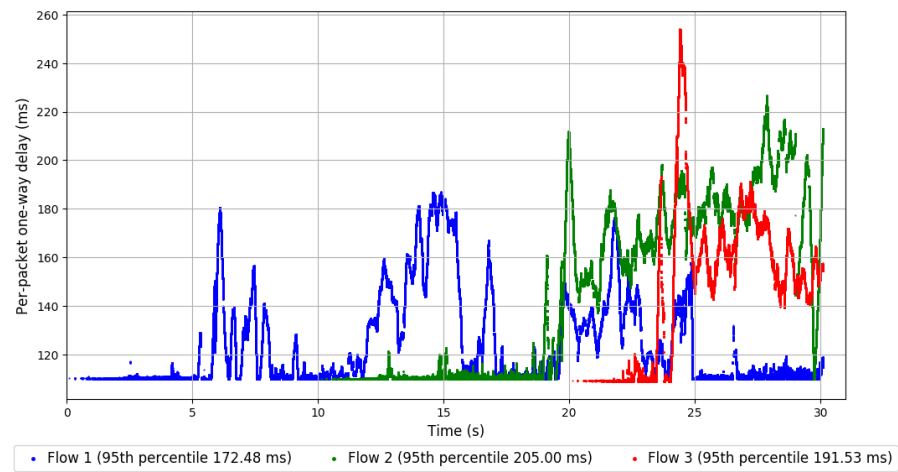
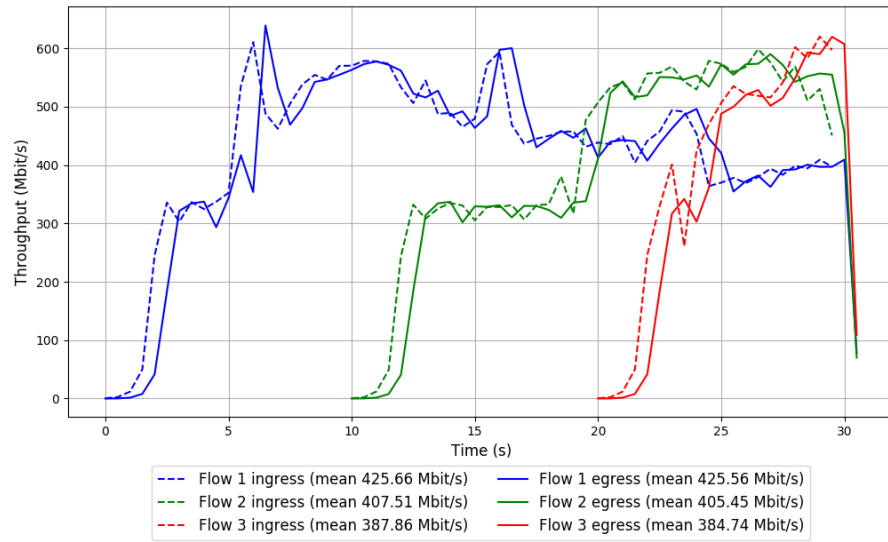


Run 5: Statistics of TCP Cubic

Start at: 2019-03-09 02:54:17
End at: 2019-03-09 02:54:47
Local clock offset: -0.692 ms
Remote clock offset: -0.081 ms

Below is generated by plot.py at 2019-03-09 04:07:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 823.67 Mbit/s
95th percentile per-packet one-way delay: 193.706 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 425.56 Mbit/s
95th percentile per-packet one-way delay: 172.484 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 405.45 Mbit/s
95th percentile per-packet one-way delay: 205.000 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 384.74 Mbit/s
95th percentile per-packet one-way delay: 191.531 ms
Loss rate: 0.78%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-03-09 00:20:57

End at: 2019-03-09 00:21:27

Local clock offset: -0.212 ms

Remote clock offset: 0.048 ms

Below is generated by plot.py at 2019-03-09 04:09:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 799.56 Mbit/s

95th percentile per-packet one-way delay: 150.568 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 491.05 Mbit/s

95th percentile per-packet one-way delay: 157.075 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 350.14 Mbit/s

95th percentile per-packet one-way delay: 115.280 ms

Loss rate: 0.00%

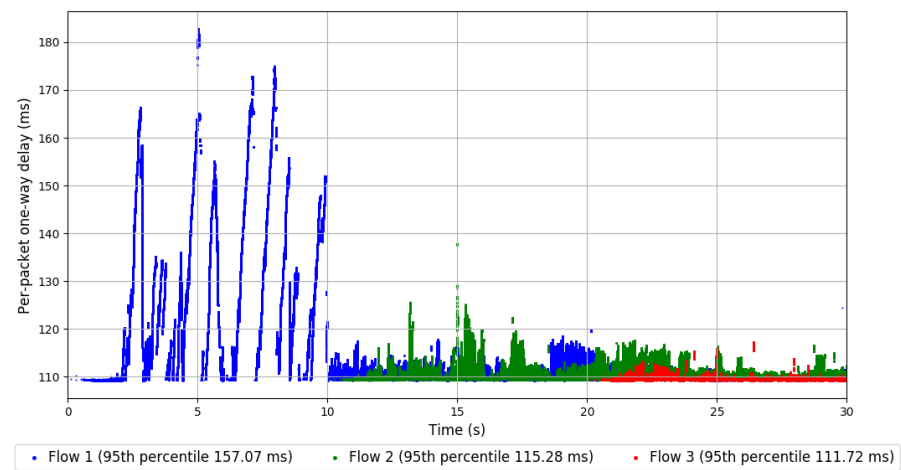
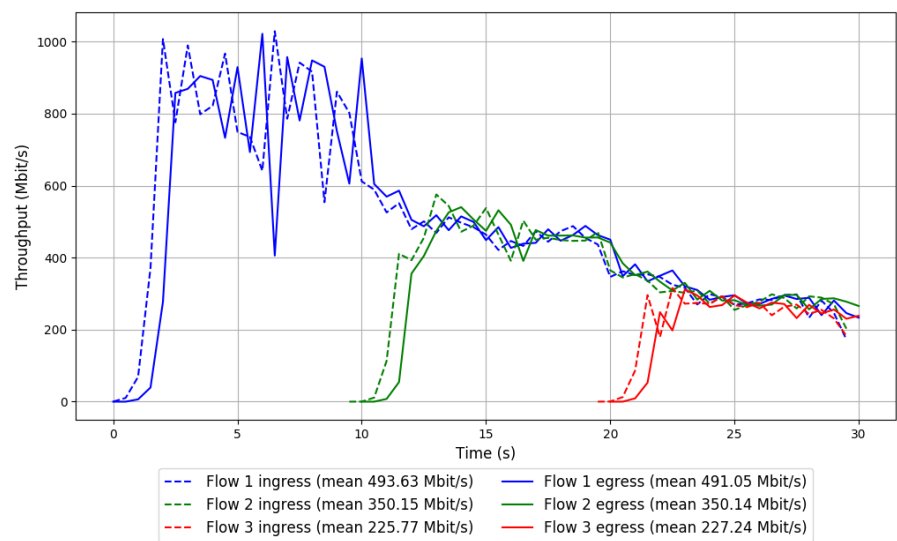
-- Flow 3:

Average throughput: 227.24 Mbit/s

95th percentile per-packet one-way delay: 111.716 ms

Loss rate: 0.00%

Run 1: Report of FillP — Data Link

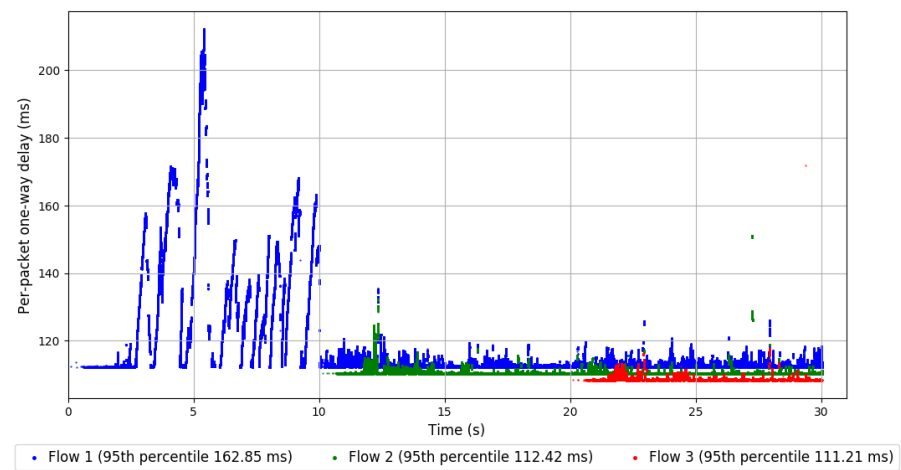
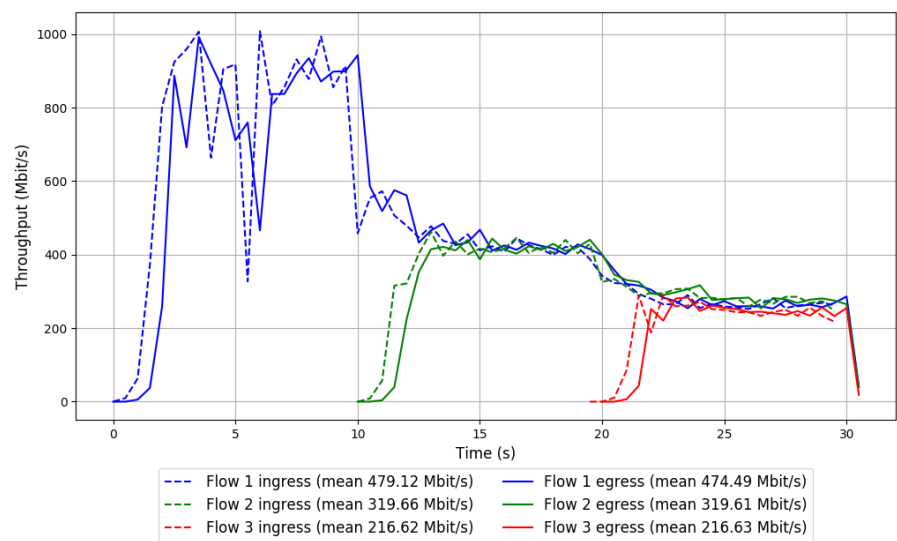


Run 2: Statistics of FillP

Start at: 2019-03-09 00:57:54
End at: 2019-03-09 00:58:24
Local clock offset: -0.156 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2019-03-09 04:19:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 758.97 Mbit/s
95th percentile per-packet one-way delay: 157.373 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 474.49 Mbit/s
95th percentile per-packet one-way delay: 162.846 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 319.61 Mbit/s
95th percentile per-packet one-way delay: 112.418 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 216.63 Mbit/s
95th percentile per-packet one-way delay: 111.210 ms
Loss rate: 0.00%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-03-09 01:35:09

End at: 2019-03-09 01:35:39

Local clock offset: -0.123 ms

Remote clock offset: -0.11 ms

Below is generated by plot.py at 2019-03-09 04:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 769.65 Mbit/s

95th percentile per-packet one-way delay: 147.434 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 487.83 Mbit/s

95th percentile per-packet one-way delay: 152.292 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 315.51 Mbit/s

95th percentile per-packet one-way delay: 112.808 ms

Loss rate: 0.00%

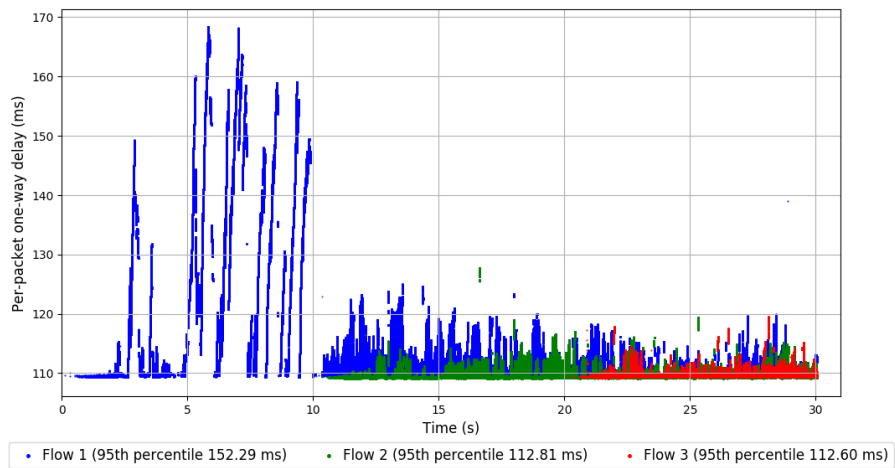
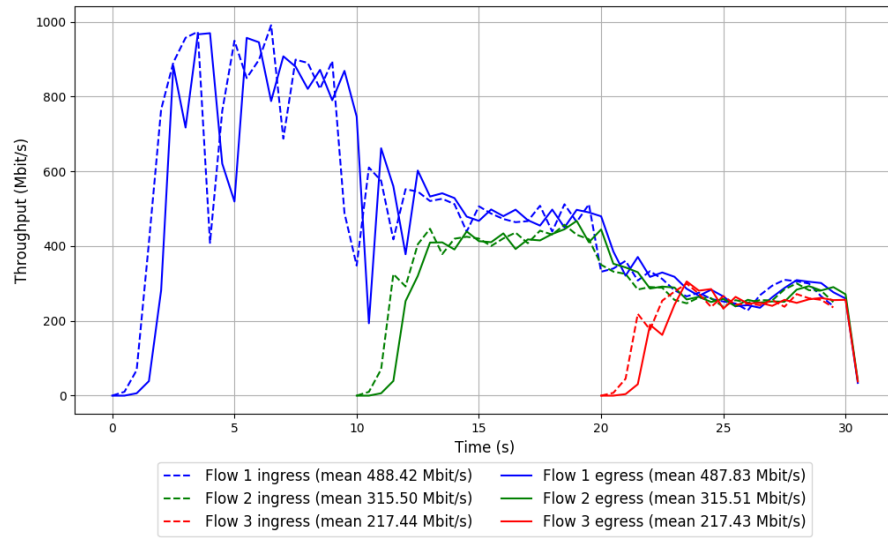
-- Flow 3:

Average throughput: 217.43 Mbit/s

95th percentile per-packet one-way delay: 112.603 ms

Loss rate: 0.00%

Run 3: Report of FillP — Data Link

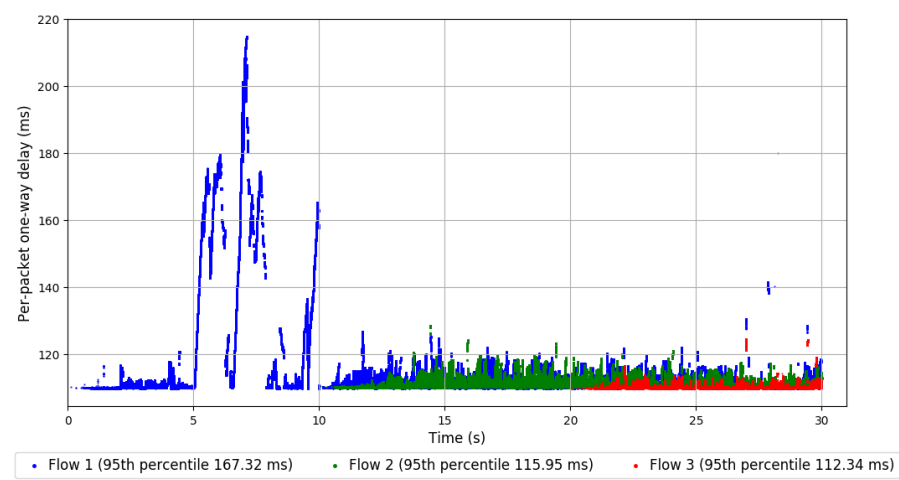
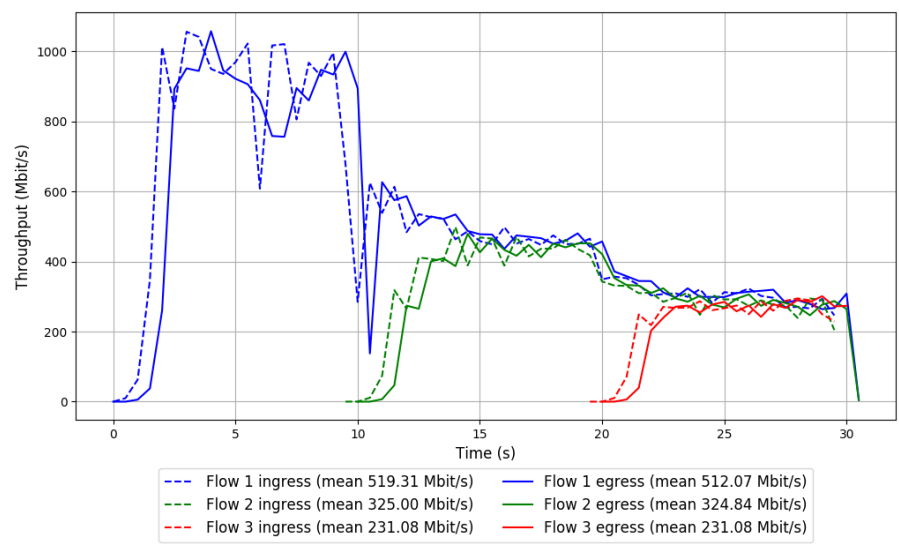


Run 4: Statistics of FillP

Start at: 2019-03-09 02:12:44
End at: 2019-03-09 02:13:14
Local clock offset: -0.99 ms
Remote clock offset: -0.118 ms

Below is generated by plot.py at 2019-03-09 04:21:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 805.48 Mbit/s
95th percentile per-packet one-way delay: 158.872 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 512.07 Mbit/s
95th percentile per-packet one-way delay: 167.318 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 324.84 Mbit/s
95th percentile per-packet one-way delay: 115.954 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 231.08 Mbit/s
95th percentile per-packet one-way delay: 112.342 ms
Loss rate: 0.00%

Run 4: Report of FillP — Data Link

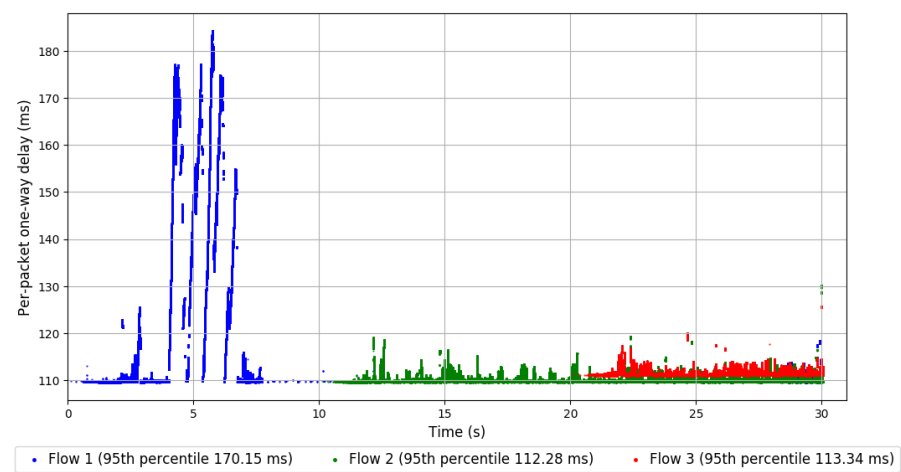
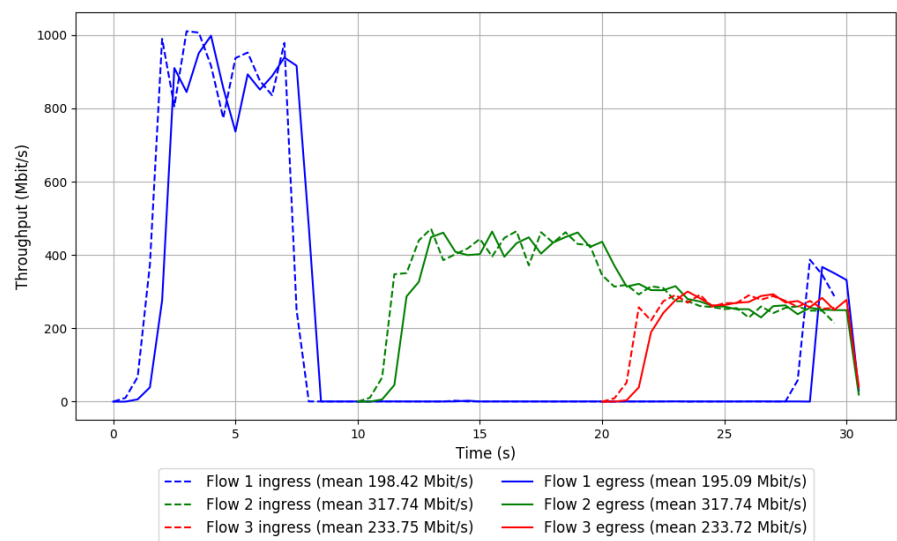


Run 5: Statistics of FillP

Start at: 2019-03-09 02:50:42
End at: 2019-03-09 02:51:12
Local clock offset: -0.284 ms
Remote clock offset: -0.078 ms

Below is generated by plot.py at 2019-03-09 04:21:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 483.79 Mbit/s
95th percentile per-packet one-way delay: 157.747 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 195.09 Mbit/s
95th percentile per-packet one-way delay: 170.150 ms
Loss rate: 1.68%
-- Flow 2:
Average throughput: 317.74 Mbit/s
95th percentile per-packet one-way delay: 112.283 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 233.72 Mbit/s
95th percentile per-packet one-way delay: 113.336 ms
Loss rate: 0.00%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-03-09 00:28:38

End at: 2019-03-09 00:29:08

Local clock offset: -0.236 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2019-03-09 04:21:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 385.46 Mbit/s

95th percentile per-packet one-way delay: 132.408 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 86.85 Mbit/s

95th percentile per-packet one-way delay: 162.072 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 323.40 Mbit/s

95th percentile per-packet one-way delay: 115.269 ms

Loss rate: 0.00%

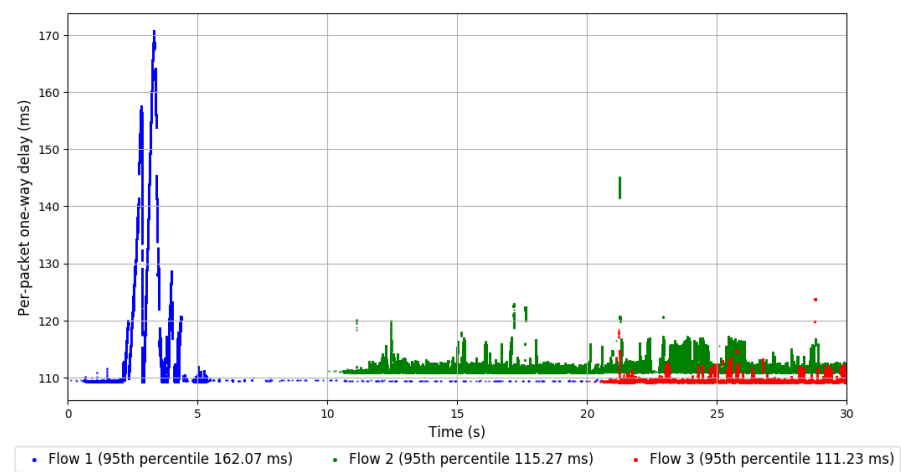
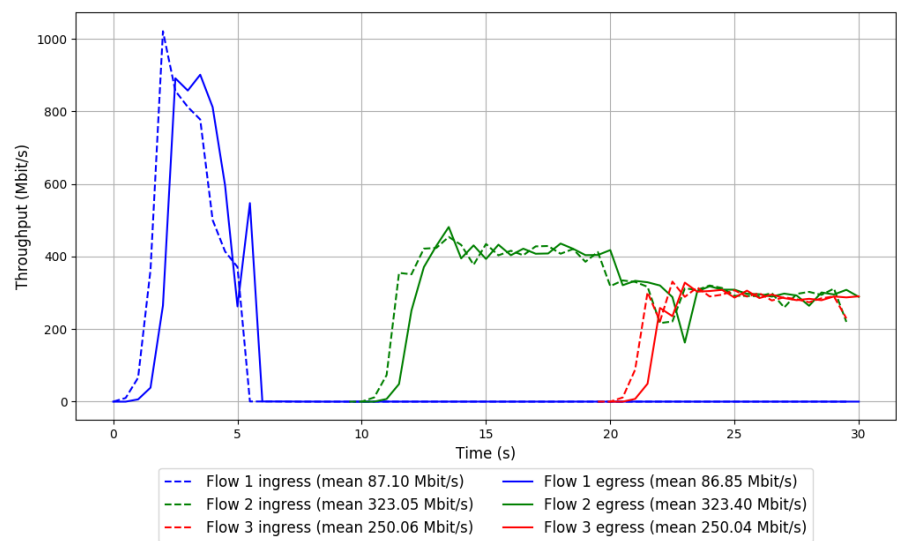
-- Flow 3:

Average throughput: 250.04 Mbit/s

95th percentile per-packet one-way delay: 111.234 ms

Loss rate: 0.00%

Run 1: Report of FillP-Sheep — Data Link

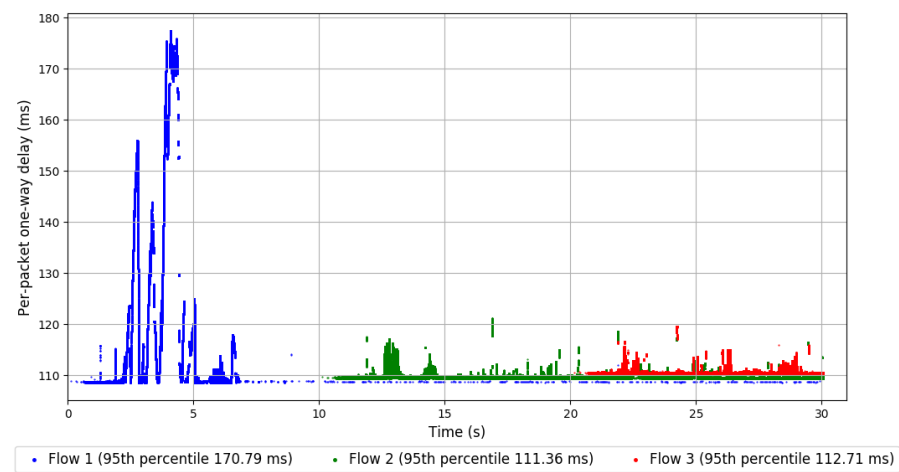
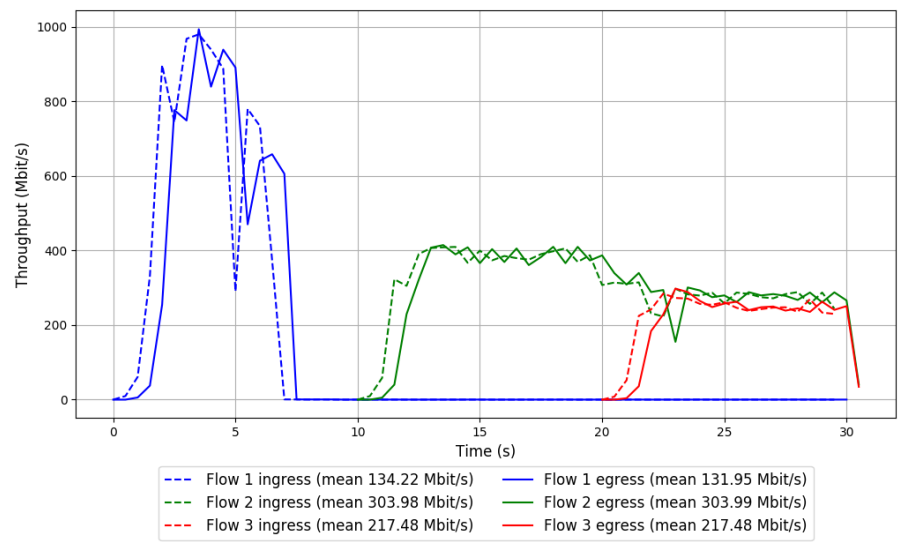


Run 2: Statistics of FillP-Sheep

Start at: 2019-03-09 01:05:35
End at: 2019-03-09 01:06:05
Local clock offset: -0.275 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2019-03-09 04:21:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 405.69 Mbit/s
95th percentile per-packet one-way delay: 150.122 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 131.95 Mbit/s
95th percentile per-packet one-way delay: 170.794 ms
Loss rate: 1.70%
-- Flow 2:
Average throughput: 303.99 Mbit/s
95th percentile per-packet one-way delay: 111.364 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 217.48 Mbit/s
95th percentile per-packet one-way delay: 112.713 ms
Loss rate: 0.00%

Run 2: Report of FillP-Sheep — Data Link

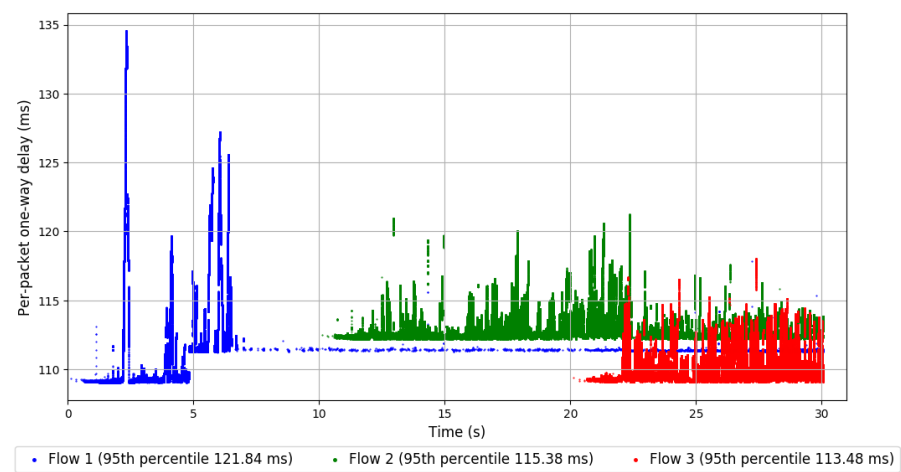
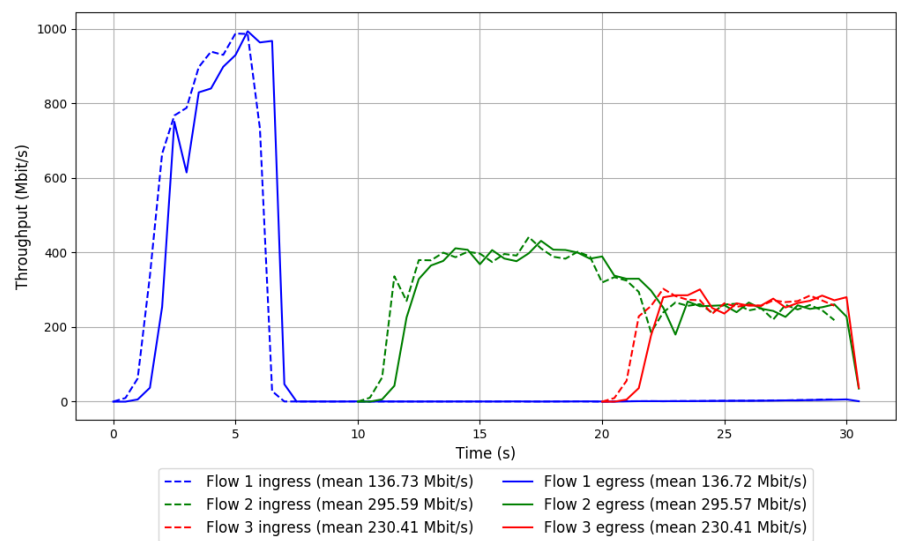


Run 3: Statistics of FillP-Sheep

Start at: 2019-03-09 01:42:52
End at: 2019-03-09 01:43:22
Local clock offset: -0.176 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2019-03-09 04:21:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 409.84 Mbit/s
95th percentile per-packet one-way delay: 117.734 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 136.72 Mbit/s
95th percentile per-packet one-way delay: 121.837 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 295.57 Mbit/s
95th percentile per-packet one-way delay: 115.377 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 230.41 Mbit/s
95th percentile per-packet one-way delay: 113.484 ms
Loss rate: 0.00%

Run 3: Report of FillP-Sheep — Data Link

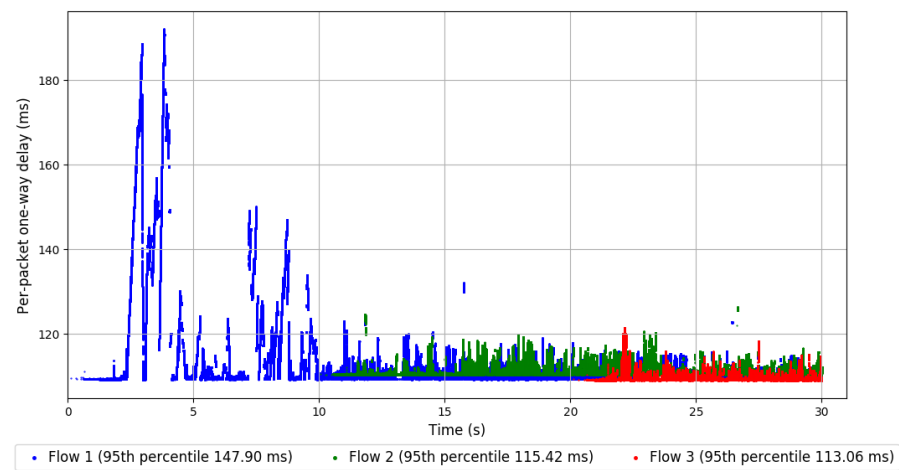
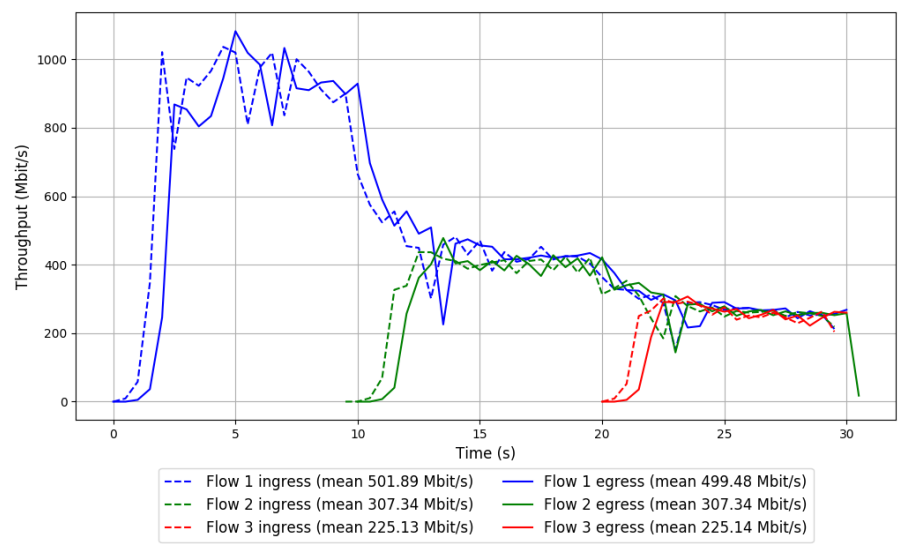


Run 4: Statistics of FillP-Sheep

Start at: 2019-03-09 02:20:37
End at: 2019-03-09 02:21:07
Local clock offset: -0.145 ms
Remote clock offset: -0.124 ms

Below is generated by plot.py at 2019-03-09 04:26:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 778.58 Mbit/s
95th percentile per-packet one-way delay: 139.735 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 499.48 Mbit/s
95th percentile per-packet one-way delay: 147.902 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 307.34 Mbit/s
95th percentile per-packet one-way delay: 115.421 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 225.14 Mbit/s
95th percentile per-packet one-way delay: 113.060 ms
Loss rate: 0.00%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-03-09 02:58:16

End at: 2019-03-09 02:58:46

Local clock offset: 0.02 ms

Remote clock offset: -0.44 ms

Below is generated by plot.py at 2019-03-09 04:26:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 470.37 Mbit/s

95th percentile per-packet one-way delay: 116.498 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 193.00 Mbit/s

95th percentile per-packet one-way delay: 125.321 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 303.12 Mbit/s

95th percentile per-packet one-way delay: 111.876 ms

Loss rate: 0.00%

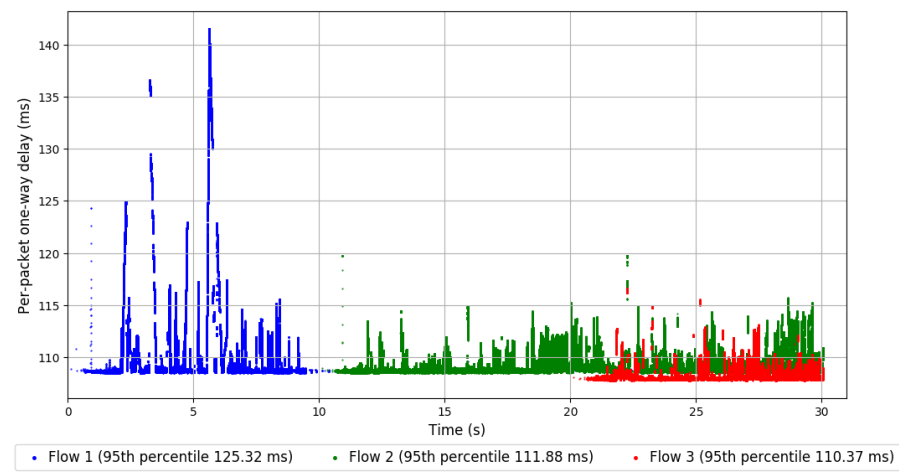
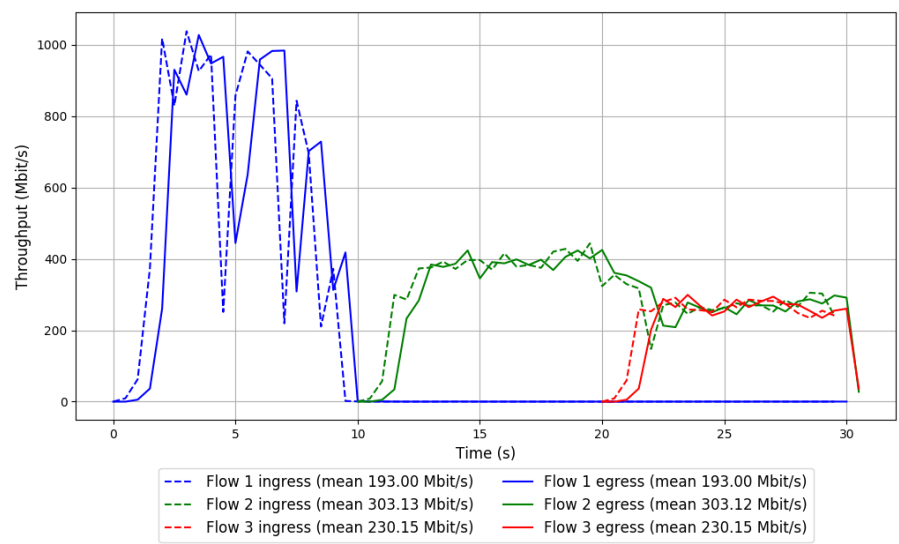
-- Flow 3:

Average throughput: 230.15 Mbit/s

95th percentile per-packet one-way delay: 110.371 ms

Loss rate: 0.00%

Run 5: Report of FillP-Sheep — Data Link

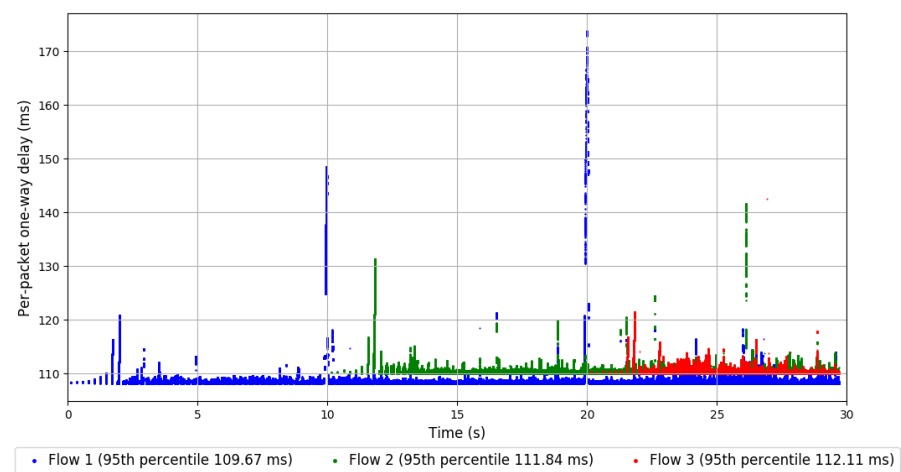
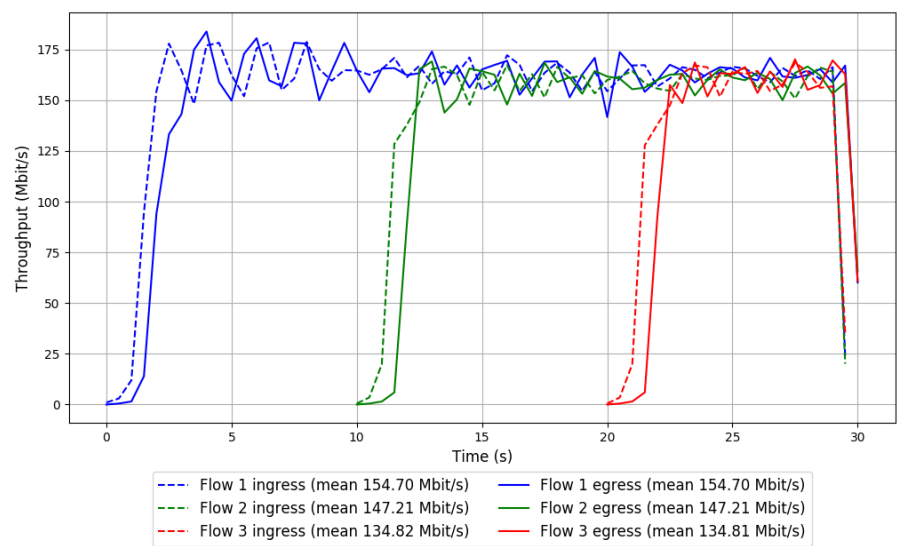


Run 1: Statistics of Indigo

Start at: 2019-03-09 00:37:00
End at: 2019-03-09 00:37:30
Local clock offset: -0.13 ms
Remote clock offset: -0.042 ms

Below is generated by plot.py at 2019-03-09 04:26:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 295.29 Mbit/s
95th percentile per-packet one-way delay: 111.421 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 154.70 Mbit/s
95th percentile per-packet one-way delay: 109.665 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 147.21 Mbit/s
95th percentile per-packet one-way delay: 111.842 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 134.81 Mbit/s
95th percentile per-packet one-way delay: 112.112 ms
Loss rate: 0.01%

Run 1: Report of Indigo — Data Link

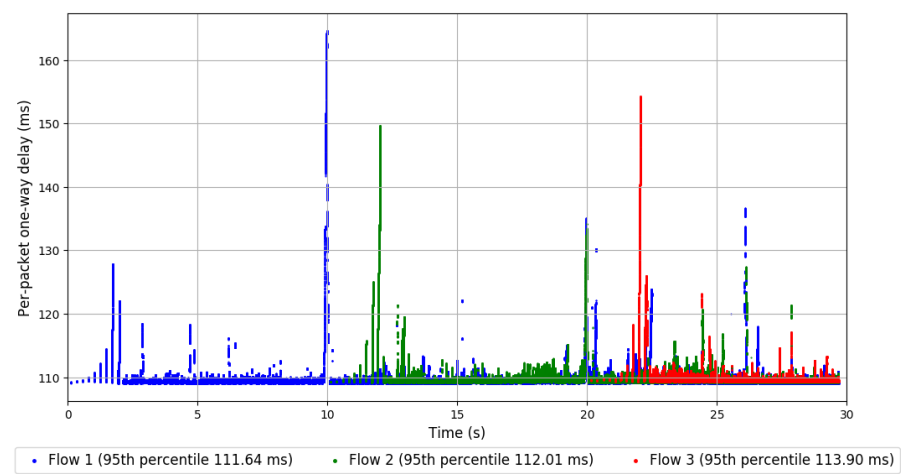
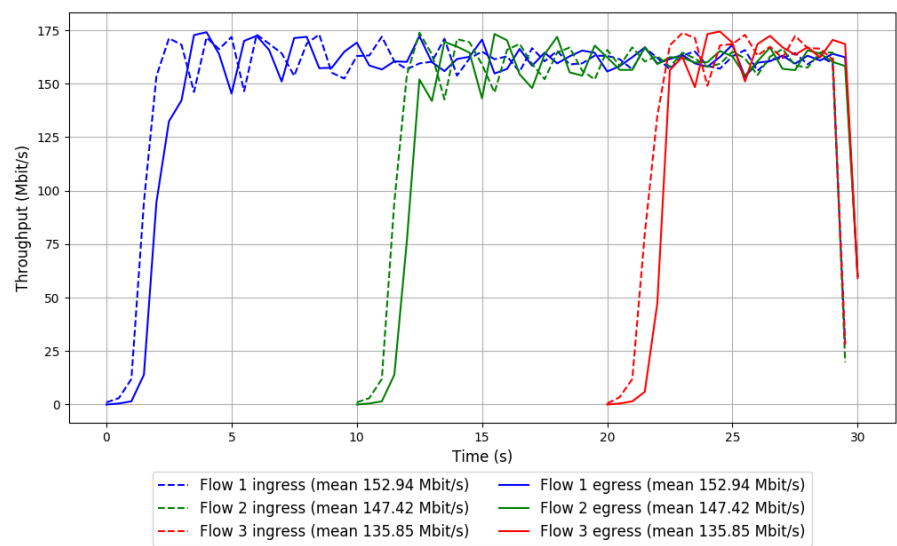


Run 2: Statistics of Indigo

Start at: 2019-03-09 01:14:28
End at: 2019-03-09 01:14:58
Local clock offset: -0.029 ms
Remote clock offset: -0.096 ms

Below is generated by plot.py at 2019-03-09 04:26:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 294.20 Mbit/s
95th percentile per-packet one-way delay: 112.057 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 152.94 Mbit/s
95th percentile per-packet one-way delay: 111.636 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 147.42 Mbit/s
95th percentile per-packet one-way delay: 112.013 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 135.85 Mbit/s
95th percentile per-packet one-way delay: 113.898 ms
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

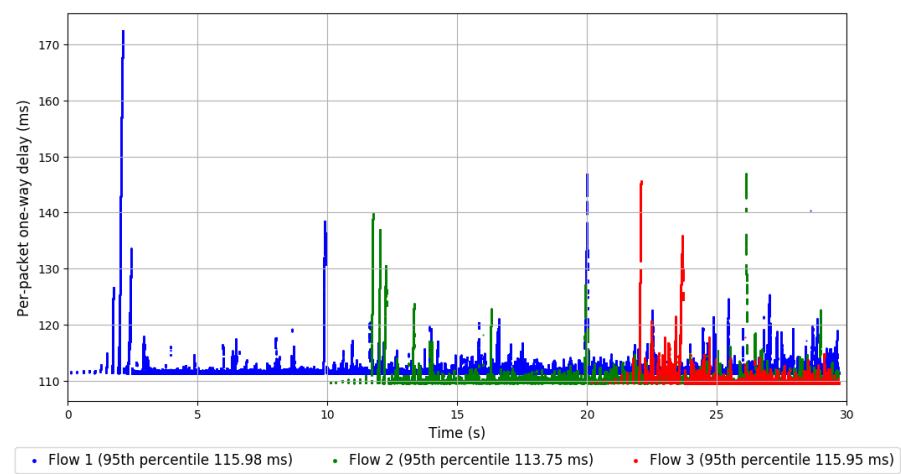
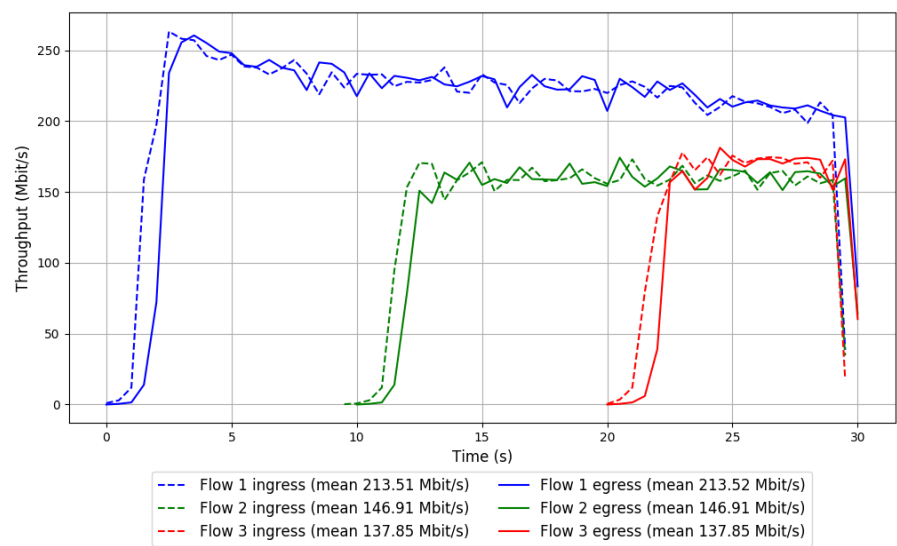


Run 3: Statistics of Indigo

Start at: 2019-03-09 01:51:45
End at: 2019-03-09 01:52:15
Local clock offset: -0.289 ms
Remote clock offset: -0.124 ms

Below is generated by plot.py at 2019-03-09 04:28:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 355.13 Mbit/s
95th percentile per-packet one-way delay: 115.522 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 213.52 Mbit/s
95th percentile per-packet one-way delay: 115.984 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 146.91 Mbit/s
95th percentile per-packet one-way delay: 113.746 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 137.85 Mbit/s
95th percentile per-packet one-way delay: 115.947 ms
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-03-09 02:29:47

End at: 2019-03-09 02:30:17

Local clock offset: -0.136 ms

Remote clock offset: 0.258 ms

Below is generated by plot.py at 2019-03-09 04:30:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 345.07 Mbit/s

95th percentile per-packet one-way delay: 117.557 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 155.75 Mbit/s

95th percentile per-packet one-way delay: 113.697 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 197.04 Mbit/s

95th percentile per-packet one-way delay: 124.032 ms

Loss rate: 0.00%

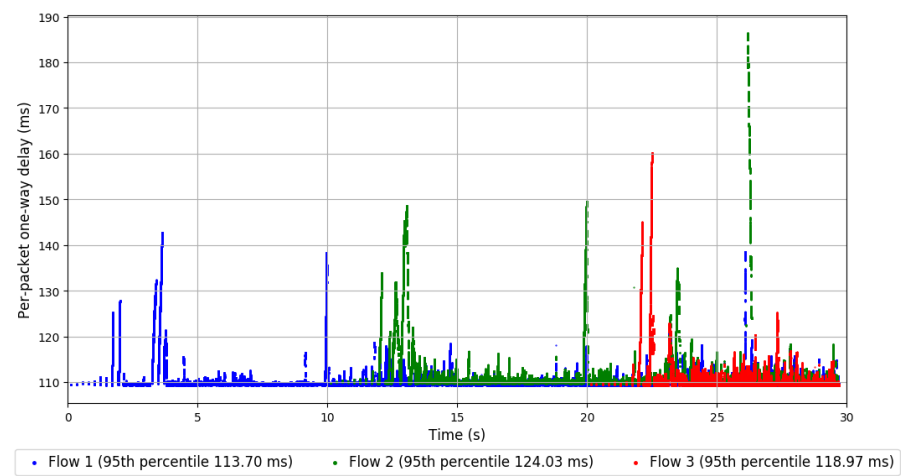
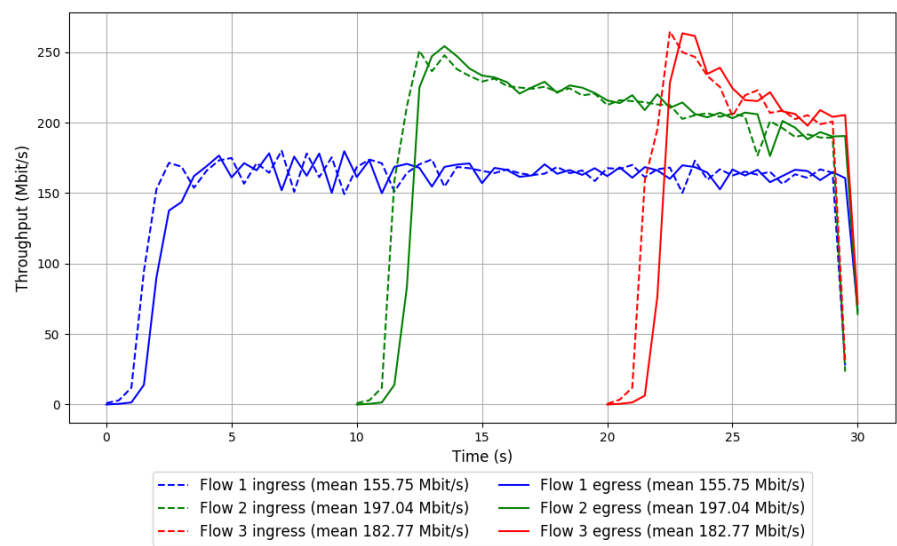
-- Flow 3:

Average throughput: 182.77 Mbit/s

95th percentile per-packet one-way delay: 118.970 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

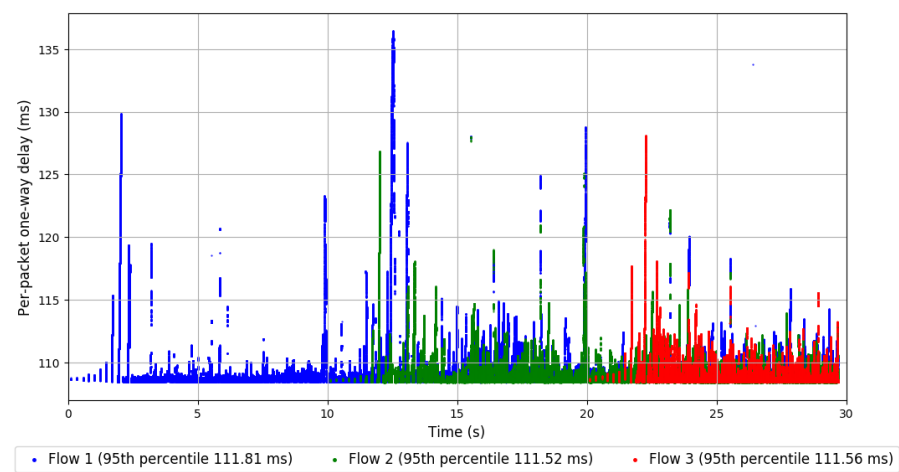
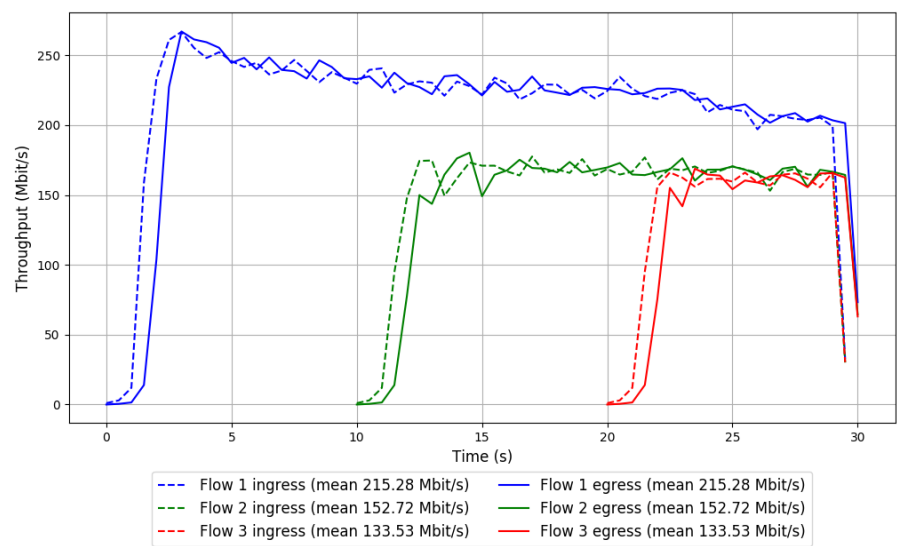


Run 5: Statistics of Indigo

Start at: 2019-03-09 03:06:58
End at: 2019-03-09 03:07:28
Local clock offset: 0.561 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2019-03-09 04:32:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 359.57 Mbit/s
95th percentile per-packet one-way delay: 111.692 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 215.28 Mbit/s
95th percentile per-packet one-way delay: 111.813 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 152.72 Mbit/s
95th percentile per-packet one-way delay: 111.522 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 133.53 Mbit/s
95th percentile per-packet one-way delay: 111.558 ms
Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-03-09 00:32:57

End at: 2019-03-09 00:33:27

Local clock offset: 0.115 ms

Remote clock offset: 0.38 ms

Below is generated by plot.py at 2019-03-09 04:35:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 790.75 Mbit/s

95th percentile per-packet one-way delay: 182.608 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 455.69 Mbit/s

95th percentile per-packet one-way delay: 198.536 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 393.06 Mbit/s

95th percentile per-packet one-way delay: 169.867 ms

Loss rate: 0.01%

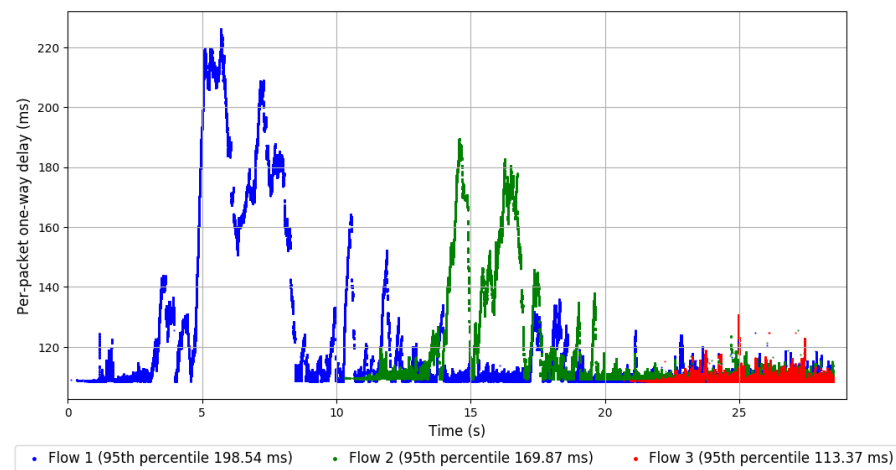
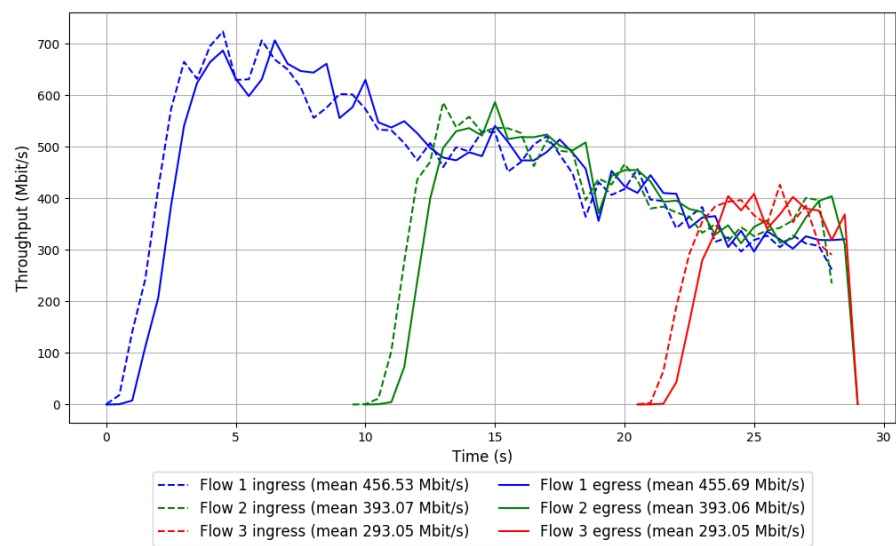
-- Flow 3:

Average throughput: 293.05 Mbit/s

95th percentile per-packet one-way delay: 113.373 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesC3 — Data Link

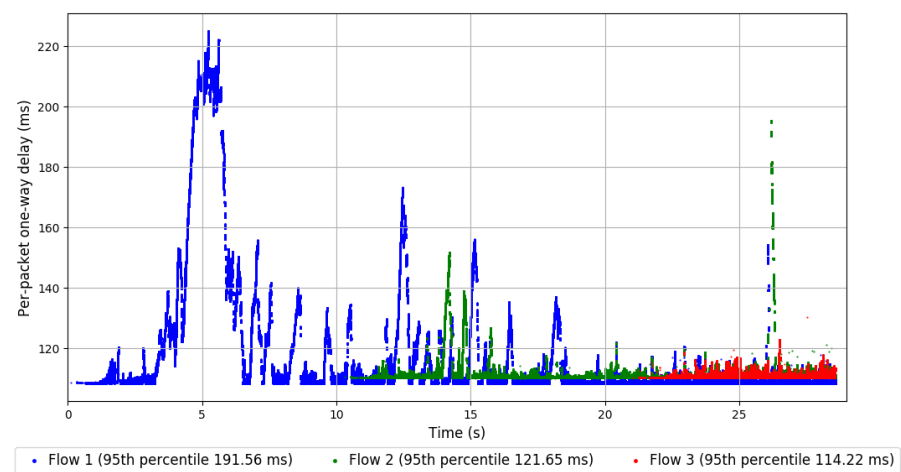
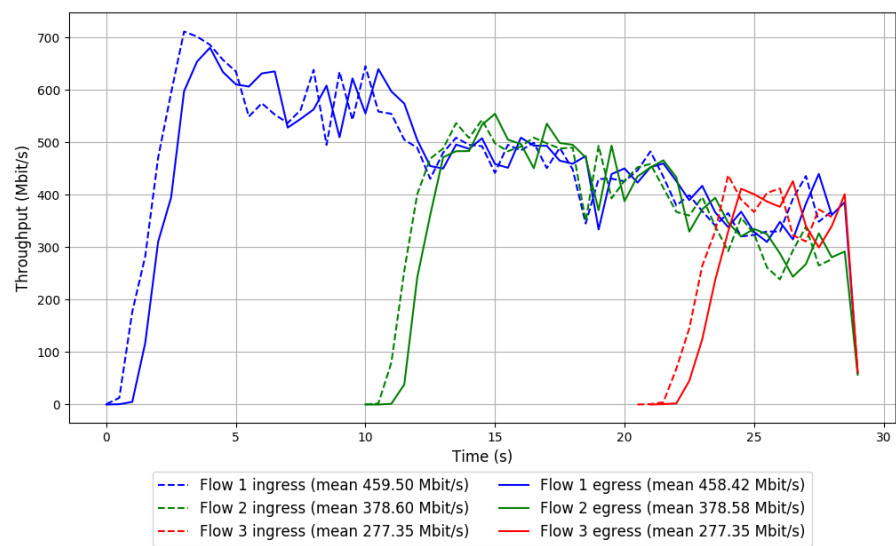


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-03-09 01:10:27
End at: 2019-03-09 01:10:57
Local clock offset: -0.195 ms
Remote clock offset: -0.122 ms

Below is generated by plot.py at 2019-03-09 04:38:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 774.74 Mbit/s
95th percentile per-packet one-way delay: 151.786 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 458.42 Mbit/s
95th percentile per-packet one-way delay: 191.561 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 378.58 Mbit/s
95th percentile per-packet one-way delay: 121.648 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 277.35 Mbit/s
95th percentile per-packet one-way delay: 114.223 ms
Loss rate: 0.06%

Run 2: Report of Indigo-MusesC3 — Data Link

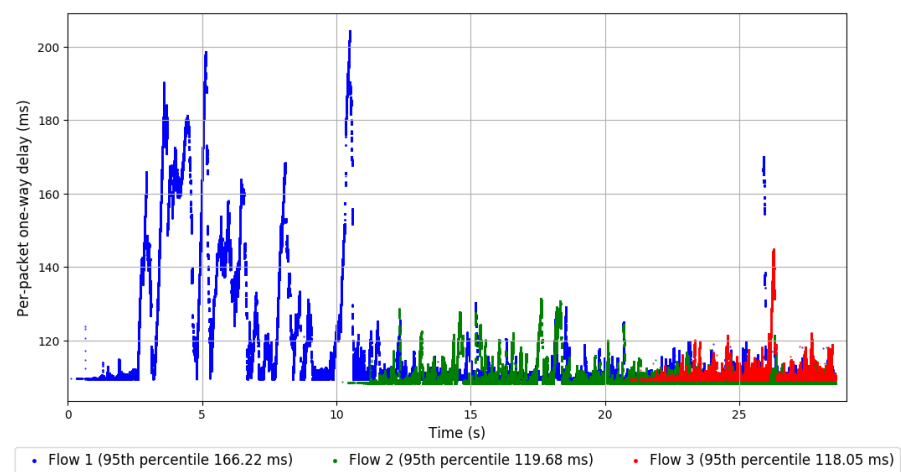
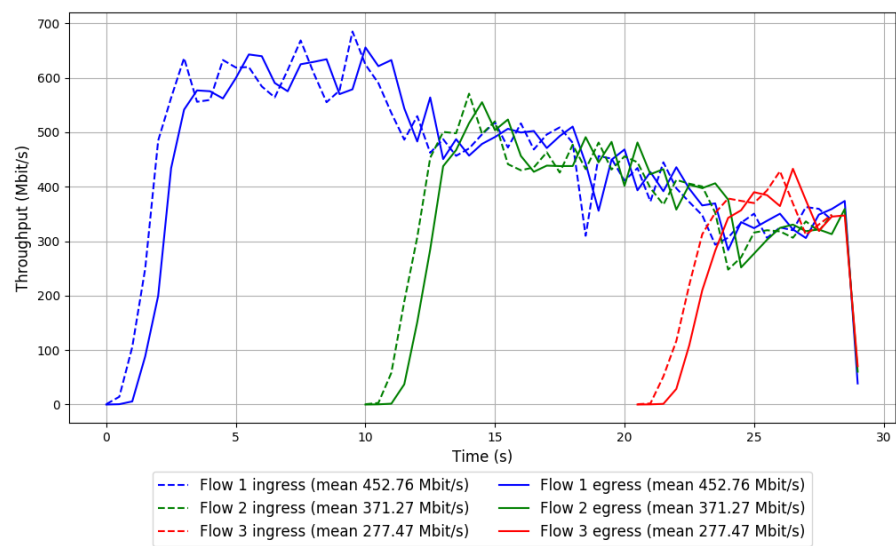


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-03-09 01:47:44
End at: 2019-03-09 01:48:14
Local clock offset: -0.254 ms
Remote clock offset: -0.126 ms

Below is generated by plot.py at 2019-03-09 04:38:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 768.61 Mbit/s
95th percentile per-packet one-way delay: 157.098 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 452.76 Mbit/s
95th percentile per-packet one-way delay: 166.219 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 371.27 Mbit/s
95th percentile per-packet one-way delay: 119.684 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 277.47 Mbit/s
95th percentile per-packet one-way delay: 118.052 ms
Loss rate: 0.00%

Run 3: Report of Indigo-MusesC3 — Data Link

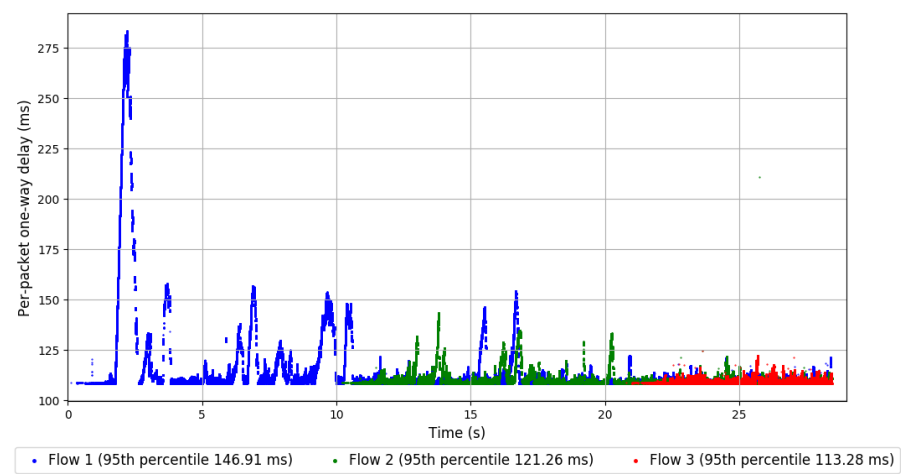
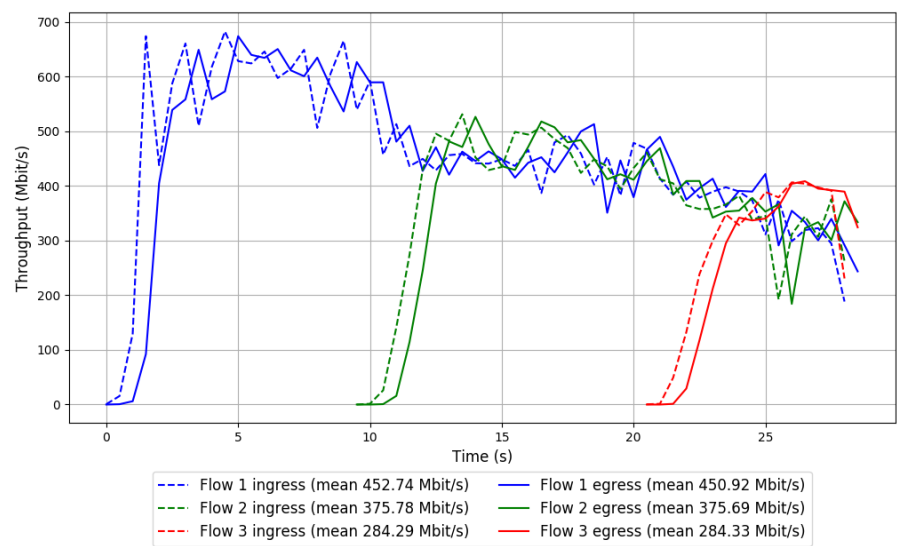


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-03-09 02:25:46
End at: 2019-03-09 02:26:16
Local clock offset: 0.425 ms
Remote clock offset: -0.125 ms

Below is generated by plot.py at 2019-03-09 04:39:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 772.23 Mbit/s
95th percentile per-packet one-way delay: 136.940 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 450.92 Mbit/s
95th percentile per-packet one-way delay: 146.908 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 375.69 Mbit/s
95th percentile per-packet one-way delay: 121.256 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 284.33 Mbit/s
95th percentile per-packet one-way delay: 113.277 ms
Loss rate: 0.00%

Run 4: Report of Indigo-MusesC3 — Data Link

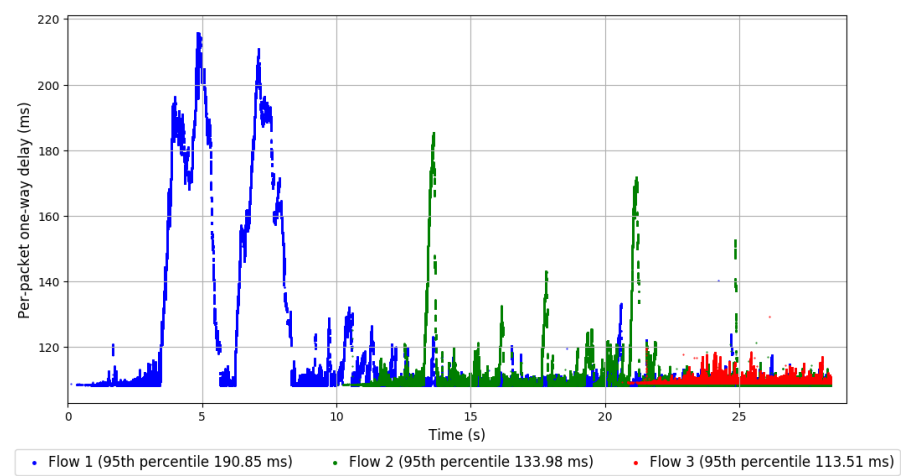
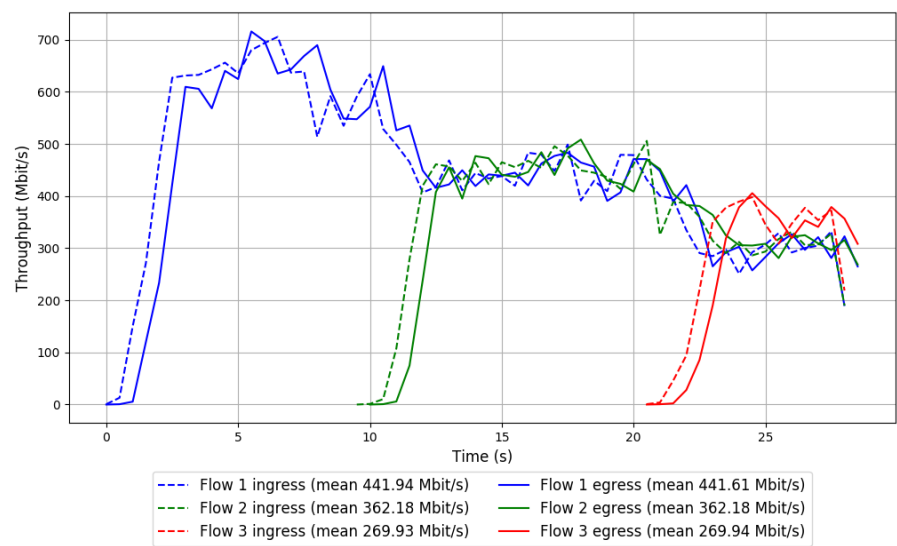


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-03-09 03:02:56
End at: 2019-03-09 03:03:26
Local clock offset: -0.202 ms
Remote clock offset: -0.086 ms

Below is generated by plot.py at 2019-03-09 04:40:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 751.19 Mbit/s
95th percentile per-packet one-way delay: 183.789 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 441.61 Mbit/s
95th percentile per-packet one-way delay: 190.851 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 362.18 Mbit/s
95th percentile per-packet one-way delay: 133.983 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 269.94 Mbit/s
95th percentile per-packet one-way delay: 113.508 ms
Loss rate: 0.00%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

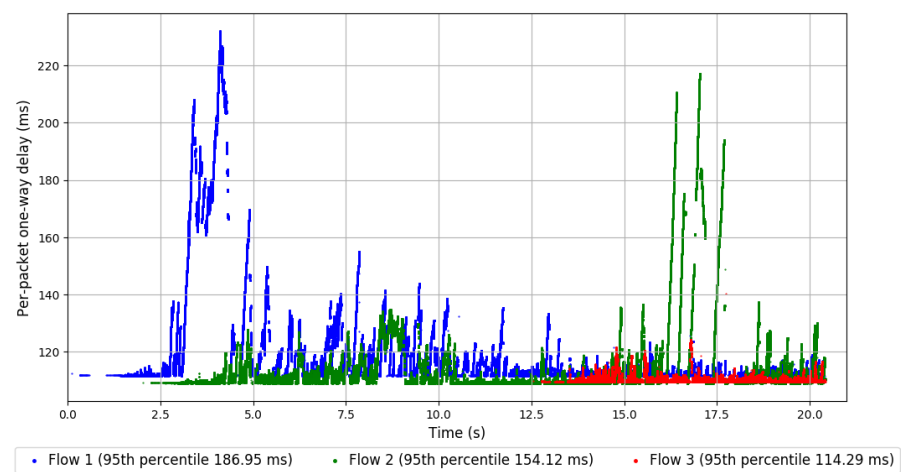
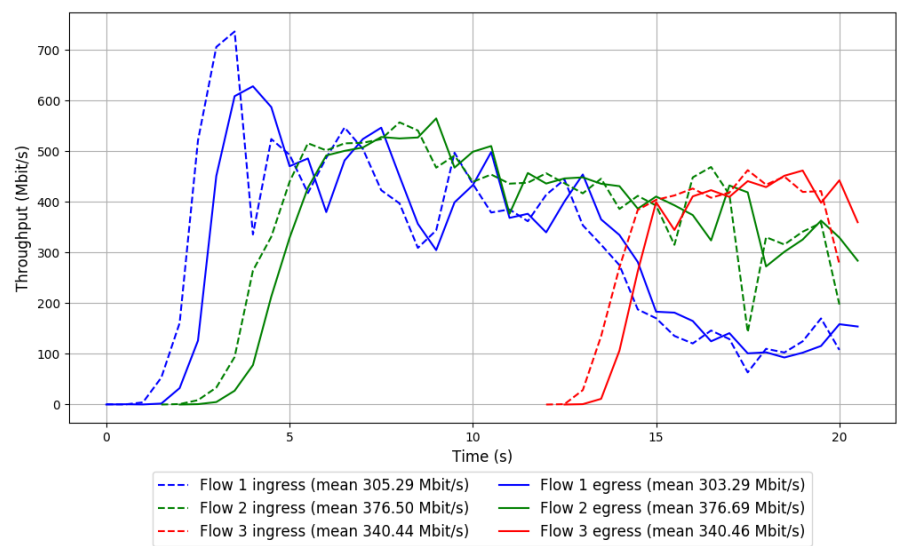
Start at: 2019-03-09 00:15:40

End at: 2019-03-09 00:16:10

Local clock offset: -0.085 ms

Remote clock offset: 0.118 ms

Run 1: Report of Indigo-MusesC5 — Data Link

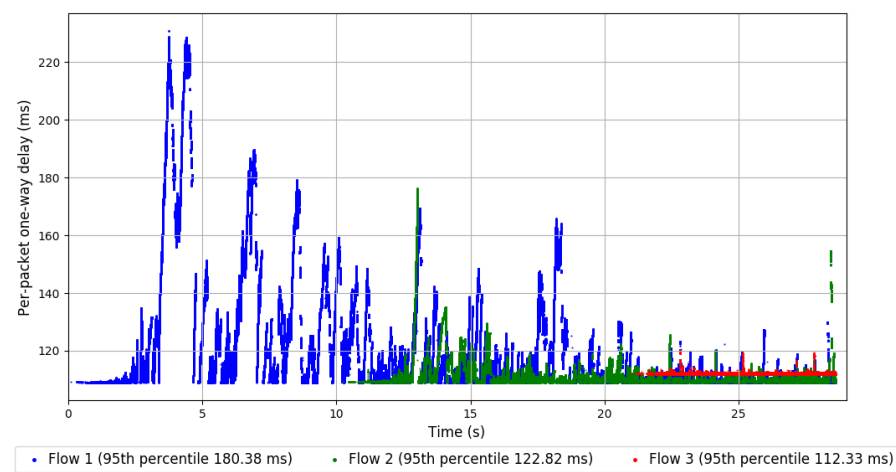
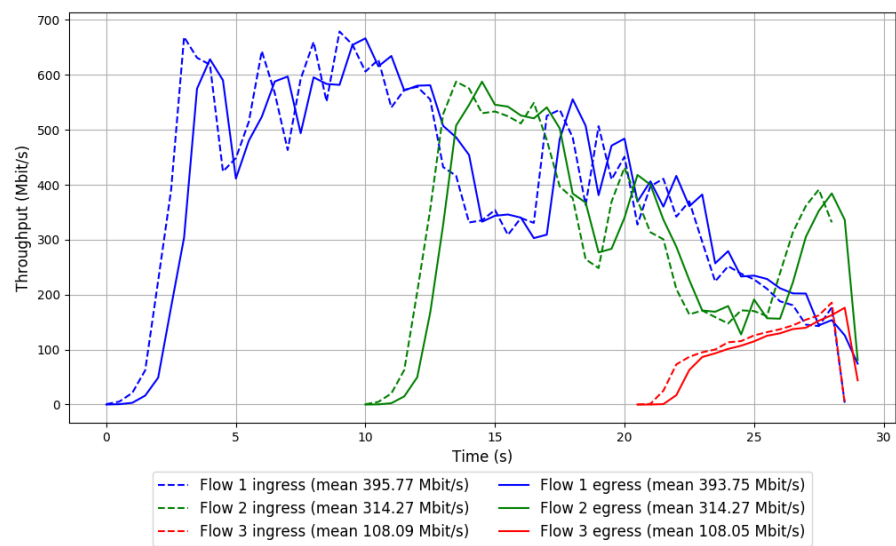


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-03-09 00:52:32
End at: 2019-03-09 00:53:02
Local clock offset: -0.135 ms
Remote clock offset: -0.358 ms

Below is generated by plot.py at 2019-03-09 04:42:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 625.01 Mbit/s
95th percentile per-packet one-way delay: 166.139 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 393.75 Mbit/s
95th percentile per-packet one-way delay: 180.384 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 314.27 Mbit/s
95th percentile per-packet one-way delay: 122.816 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 108.05 Mbit/s
95th percentile per-packet one-way delay: 112.333 ms
Loss rate: 0.06%

Run 2: Report of Indigo-MusesC5 — Data Link

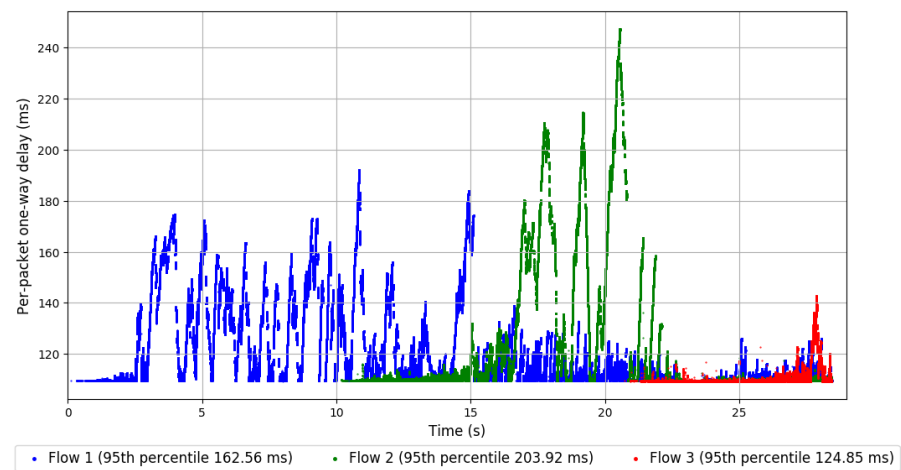
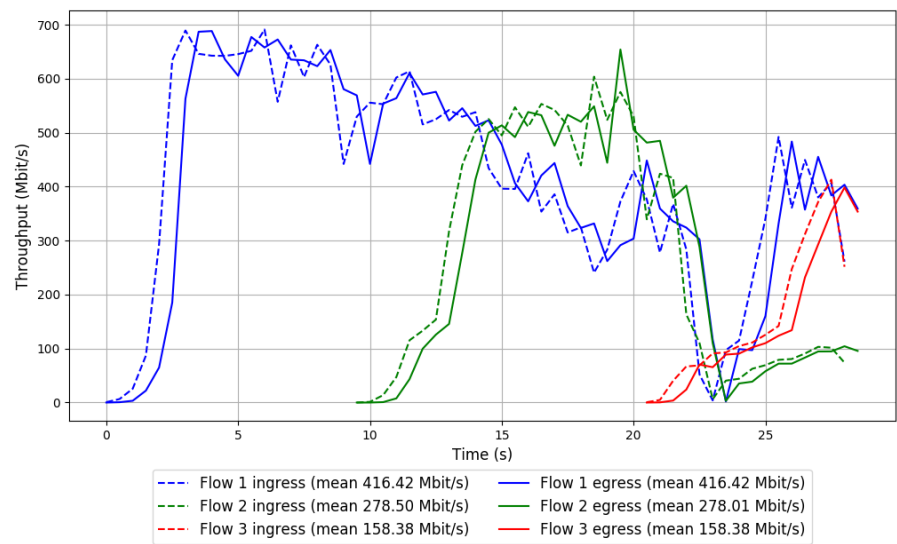


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-03-09 01:29:47
End at: 2019-03-09 01:30:17
Local clock offset: -0.148 ms
Remote clock offset: -0.085 ms

Below is generated by plot.py at 2019-03-09 04:43:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 640.77 Mbit/s
95th percentile per-packet one-way delay: 173.489 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 416.42 Mbit/s
95th percentile per-packet one-way delay: 162.565 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 278.01 Mbit/s
95th percentile per-packet one-way delay: 203.918 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 158.38 Mbit/s
95th percentile per-packet one-way delay: 124.849 ms
Loss rate: 0.00%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-03-09 02:07:22

End at: 2019-03-09 02:07:52

Local clock offset: -0.243 ms

Remote clock offset: -0.09 ms

Below is generated by plot.py at 2019-03-09 04:46:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 656.16 Mbit/s

95th percentile per-packet one-way delay: 157.278 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 393.00 Mbit/s

95th percentile per-packet one-way delay: 161.938 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 357.93 Mbit/s

95th percentile per-packet one-way delay: 153.062 ms

Loss rate: 0.00%

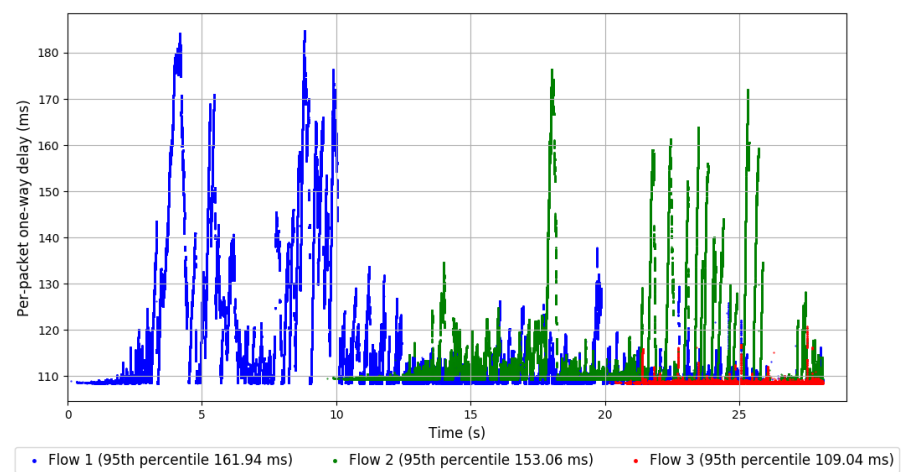
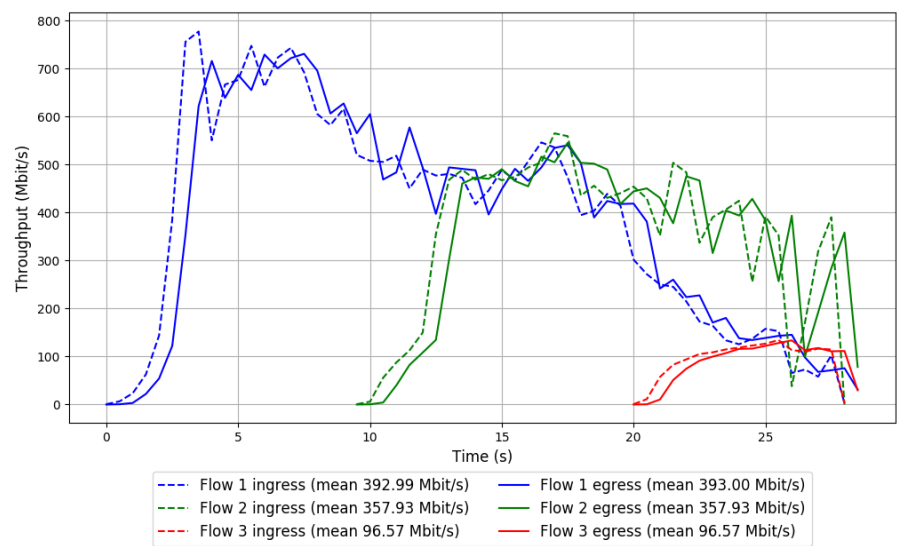
-- Flow 3:

Average throughput: 96.57 Mbit/s

95th percentile per-packet one-way delay: 109.041 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-03-09 02:45:14

End at: 2019-03-09 02:45:44

Local clock offset: -0.271 ms

Remote clock offset: 0.303 ms

Below is generated by plot.py at 2019-03-09 04:50:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 734.77 Mbit/s

95th percentile per-packet one-way delay: 147.611 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 435.50 Mbit/s

95th percentile per-packet one-way delay: 146.970 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 335.94 Mbit/s

95th percentile per-packet one-way delay: 147.805 ms

Loss rate: 0.00%

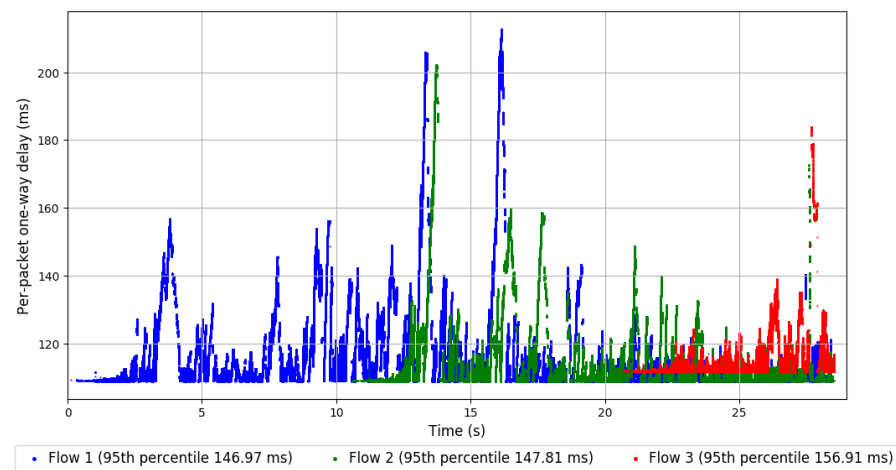
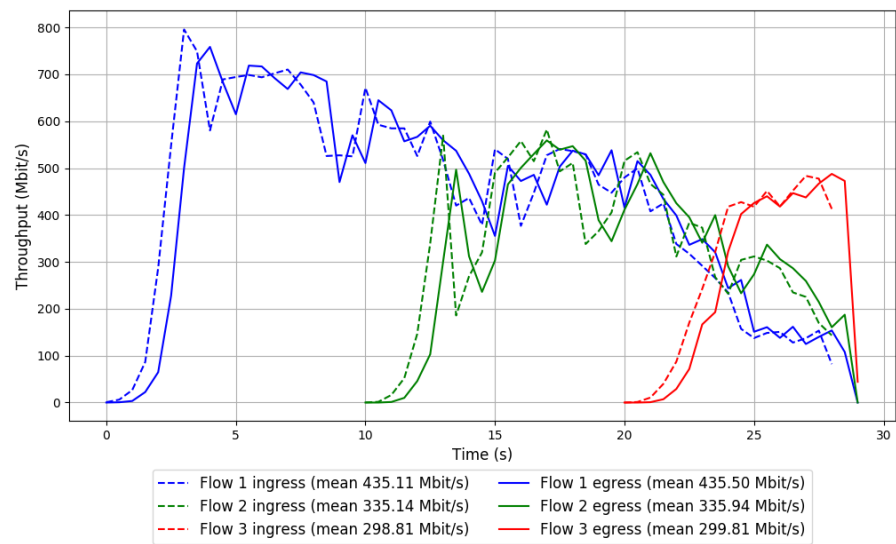
-- Flow 3:

Average throughput: 299.81 Mbit/s

95th percentile per-packet one-way delay: 156.913 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-03-09 00:49:15

End at: 2019-03-09 00:49:45

Local clock offset: -0.187 ms

Remote clock offset: 0.049 ms

Below is generated by plot.py at 2019-03-09 04:50:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 682.32 Mbit/s

95th percentile per-packet one-way delay: 136.828 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 361.86 Mbit/s

95th percentile per-packet one-way delay: 141.751 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 378.17 Mbit/s

95th percentile per-packet one-way delay: 135.722 ms

Loss rate: 0.00%

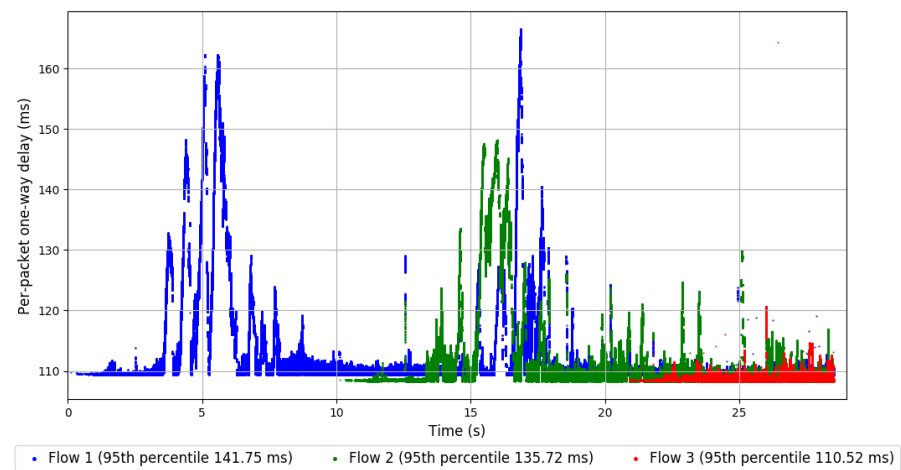
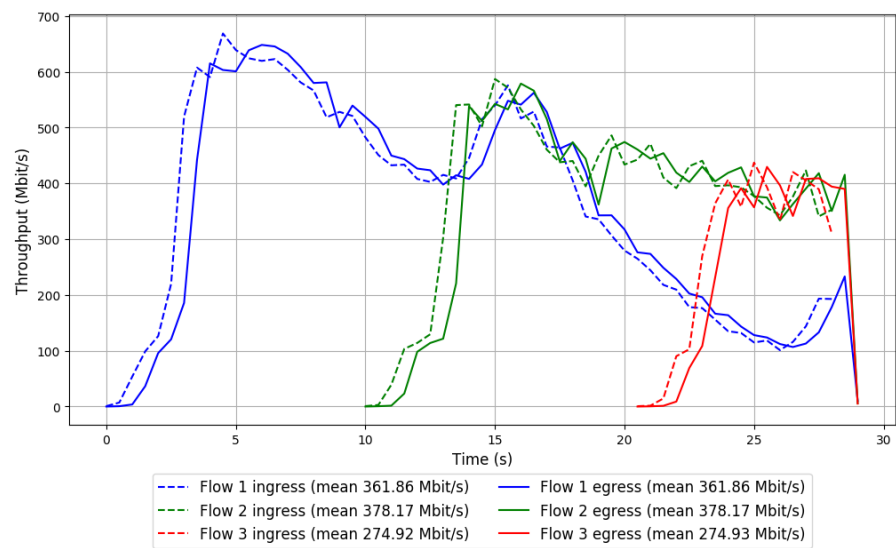
-- Flow 3:

Average throughput: 274.93 Mbit/s

95th percentile per-packet one-way delay: 110.518 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesD — Data Link

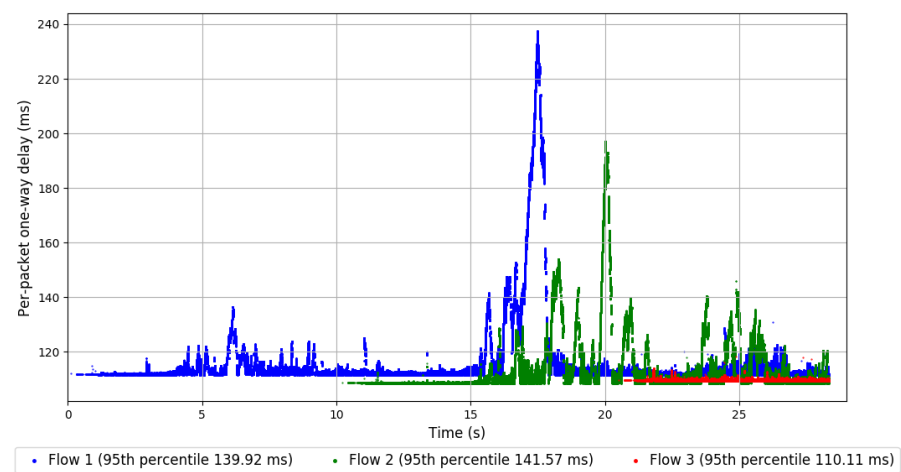
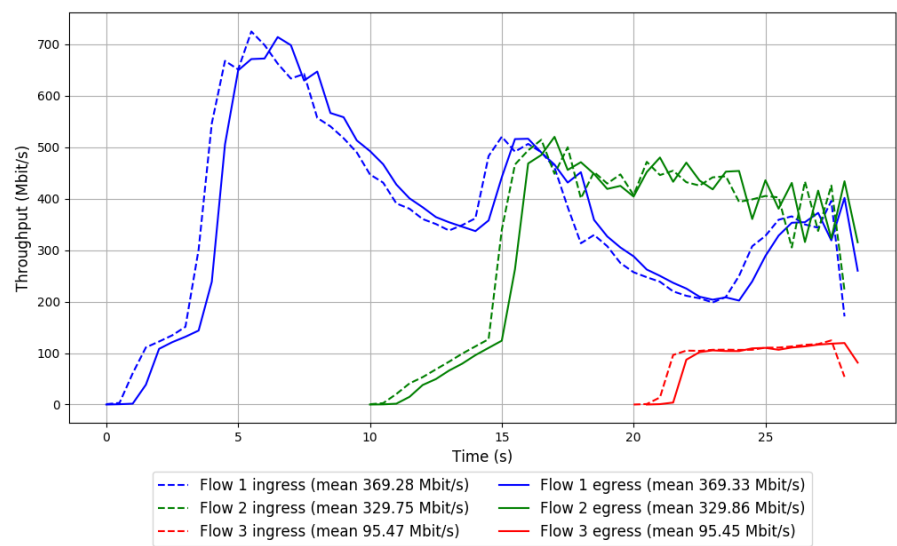


Run 2: Statistics of Indigo-MusesD

Start at: 2019-03-09 01:26:34
End at: 2019-03-09 01:27:04
Local clock offset: -0.23 ms
Remote clock offset: -0.083 ms

Below is generated by plot.py at 2019-03-09 04:50:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 607.38 Mbit/s
95th percentile per-packet one-way delay: 139.788 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 369.33 Mbit/s
95th percentile per-packet one-way delay: 139.917 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 329.86 Mbit/s
95th percentile per-packet one-way delay: 141.571 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 95.45 Mbit/s
95th percentile per-packet one-way delay: 110.112 ms
Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link

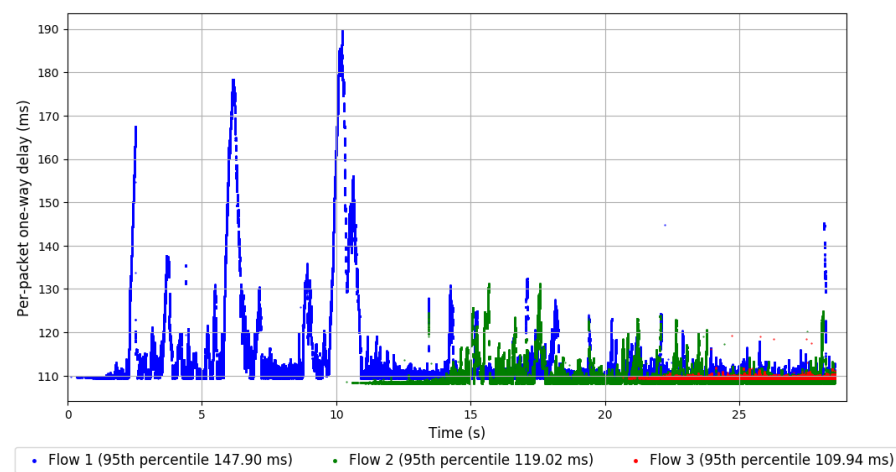
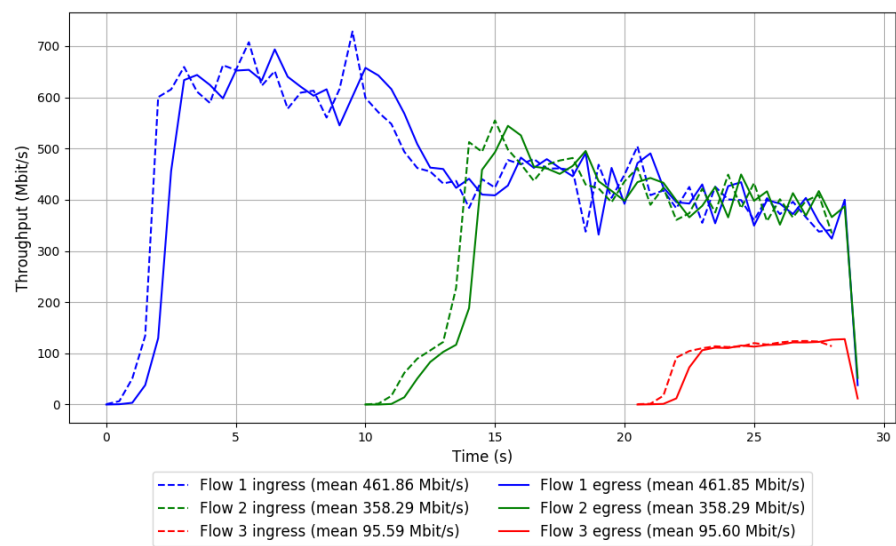


Run 3: Statistics of Indigo-MusesD

Start at: 2019-03-09 02:04:03
End at: 2019-03-09 02:04:33
Local clock offset: -0.202 ms
Remote clock offset: -0.148 ms

Below is generated by plot.py at 2019-03-09 04:51:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 717.28 Mbit/s
95th percentile per-packet one-way delay: 135.678 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 461.85 Mbit/s
95th percentile per-packet one-way delay: 147.898 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 358.29 Mbit/s
95th percentile per-packet one-way delay: 119.024 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 95.60 Mbit/s
95th percentile per-packet one-way delay: 109.940 ms
Loss rate: 0.09%

Run 3: Report of Indigo-MusesD — Data Link

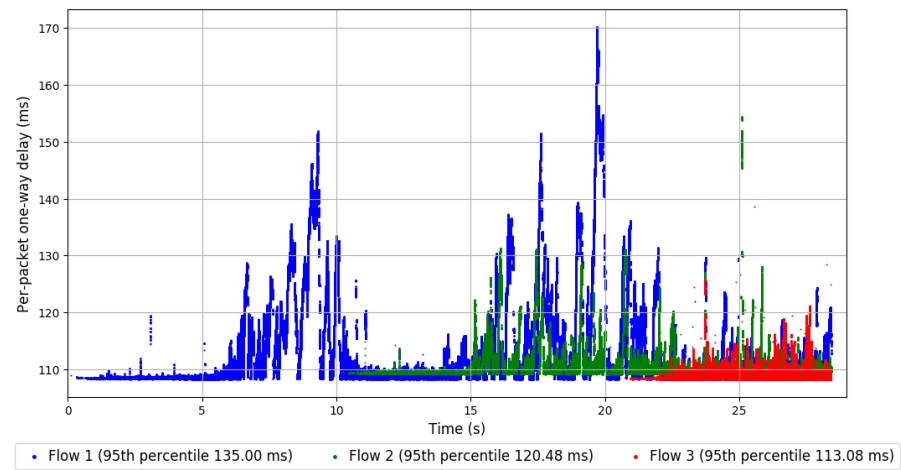
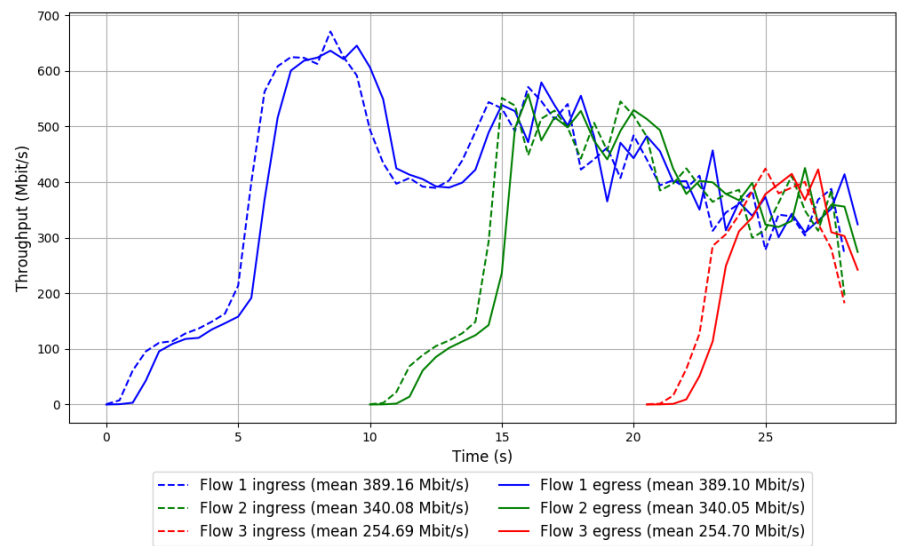


Run 4: Statistics of Indigo-MusesD

Start at: 2019-03-09 02:41:56
End at: 2019-03-09 02:42:26
Local clock offset: -0.111 ms
Remote clock offset: -0.099 ms

Below is generated by plot.py at 2019-03-09 04:51:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 676.51 Mbit/s
95th percentile per-packet one-way delay: 129.724 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 389.10 Mbit/s
95th percentile per-packet one-way delay: 135.004 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 340.05 Mbit/s
95th percentile per-packet one-way delay: 120.483 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 254.70 Mbit/s
95th percentile per-packet one-way delay: 113.085 ms
Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link

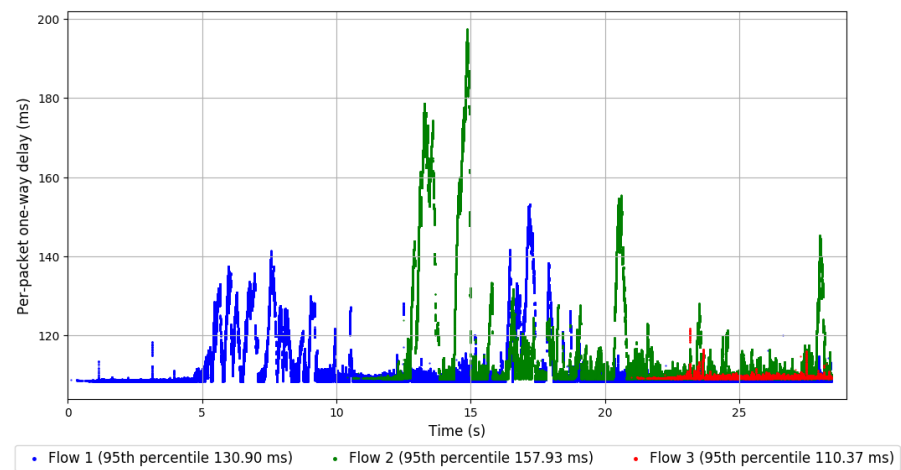
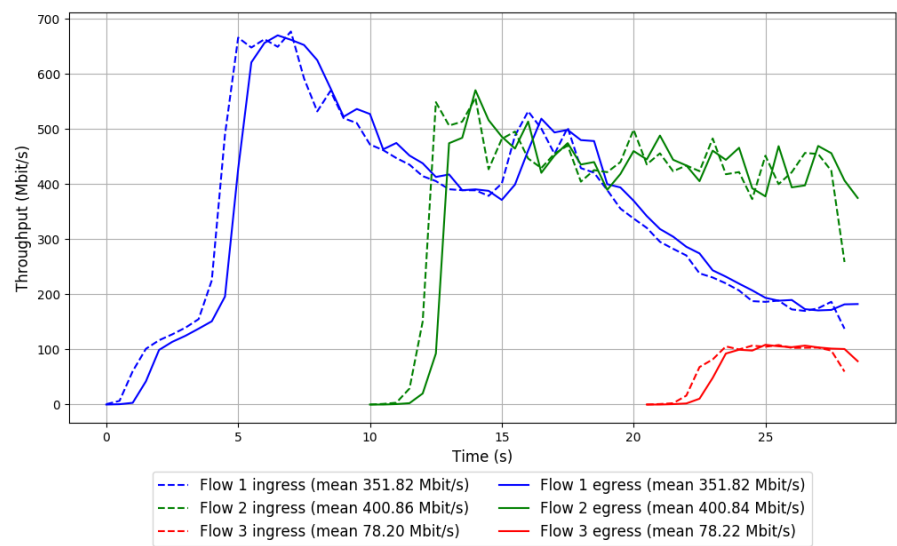


Run 5: Statistics of Indigo-MusesD

Start at: 2019-03-09 03:19:07
End at: 2019-03-09 03:19:37
Local clock offset: -0.158 ms
Remote clock offset: -0.101 ms

Below is generated by plot.py at 2019-03-09 04:53:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 627.47 Mbit/s
95th percentile per-packet one-way delay: 138.048 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 351.82 Mbit/s
95th percentile per-packet one-way delay: 130.903 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 400.84 Mbit/s
95th percentile per-packet one-way delay: 157.927 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 78.22 Mbit/s
95th percentile per-packet one-way delay: 110.372 ms
Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link

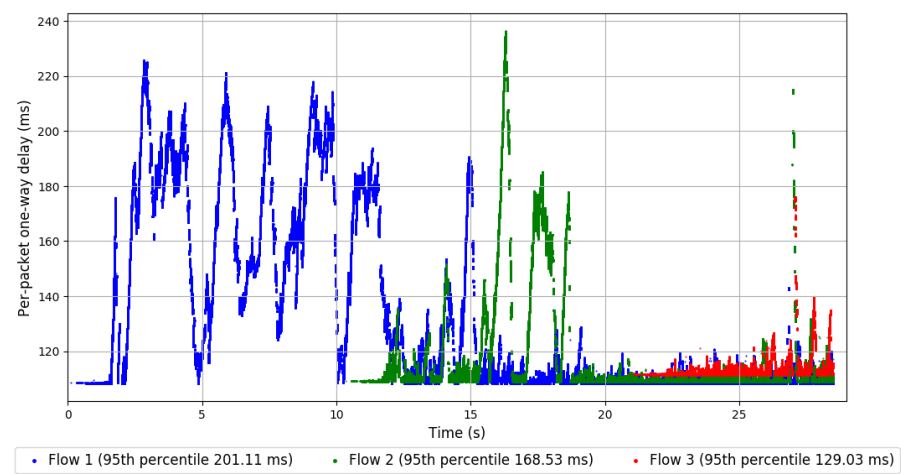
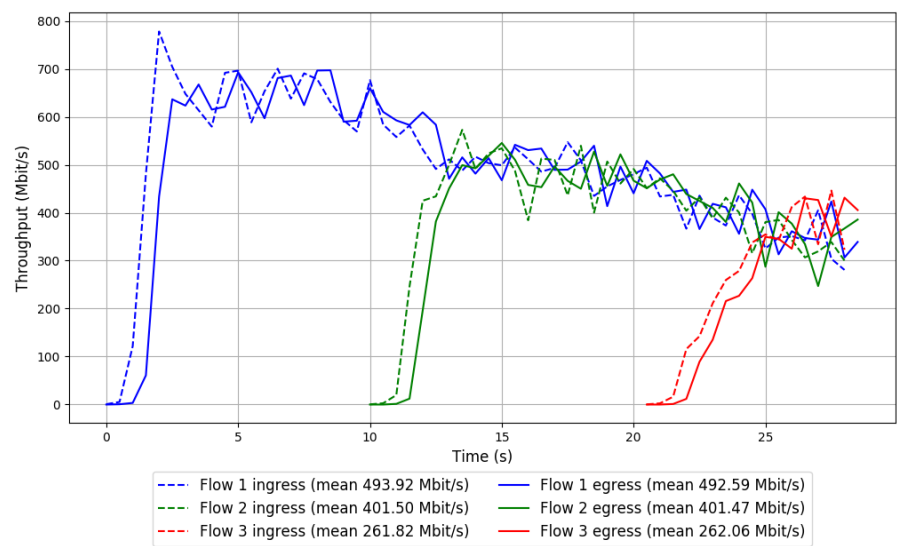


Run 1: Statistics of Indigo-MusesT

Start at: 2019-03-09 00:43:02
End at: 2019-03-09 00:43:32
Local clock offset: -0.038 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2019-03-09 04:57:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 820.03 Mbit/s
95th percentile per-packet one-way delay: 196.678 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 492.59 Mbit/s
95th percentile per-packet one-way delay: 201.106 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 401.47 Mbit/s
95th percentile per-packet one-way delay: 168.530 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 262.06 Mbit/s
95th percentile per-packet one-way delay: 129.032 ms
Loss rate: 0.07%

Run 1: Report of Indigo-MusesT — Data Link

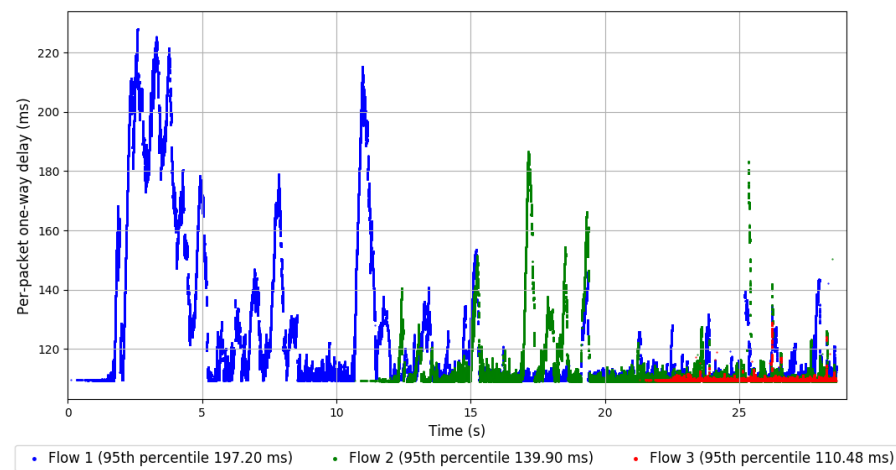
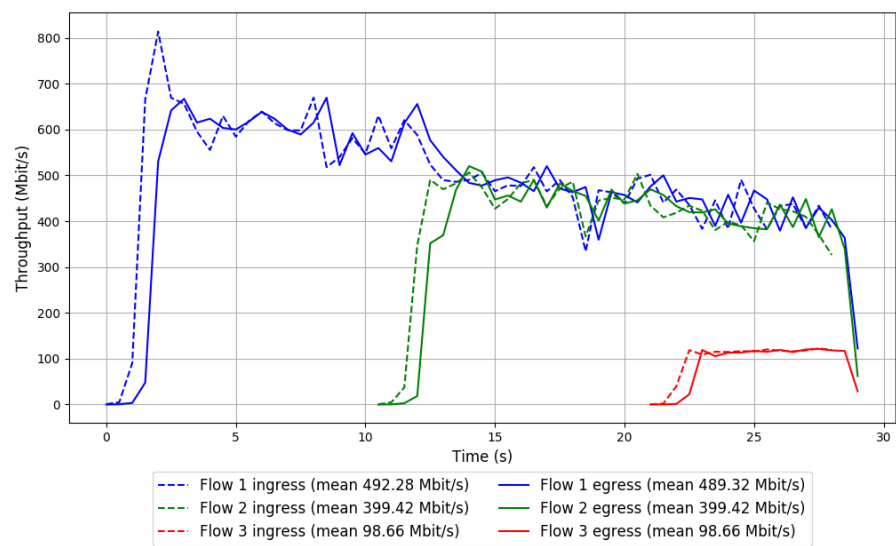


Run 2: Statistics of Indigo-MusesT

Start at: 2019-03-09 01:20:29
End at: 2019-03-09 01:20:59
Local clock offset: -0.397 ms
Remote clock offset: -0.449 ms

Below is generated by plot.py at 2019-03-09 05:00:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 765.63 Mbit/s
95th percentile per-packet one-way delay: 183.650 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 489.32 Mbit/s
95th percentile per-packet one-way delay: 197.199 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 399.42 Mbit/s
95th percentile per-packet one-way delay: 139.899 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 98.66 Mbit/s
95th percentile per-packet one-way delay: 110.483 ms
Loss rate: 0.00%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-03-09 01:57:53

End at: 2019-03-09 01:58:23

Local clock offset: -0.268 ms

Remote clock offset: -0.15 ms

Below is generated by plot.py at 2019-03-09 05:02:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 817.69 Mbit/s

95th percentile per-packet one-way delay: 202.427 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 479.59 Mbit/s

95th percentile per-packet one-way delay: 208.216 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 412.32 Mbit/s

95th percentile per-packet one-way delay: 128.612 ms

Loss rate: 0.06%

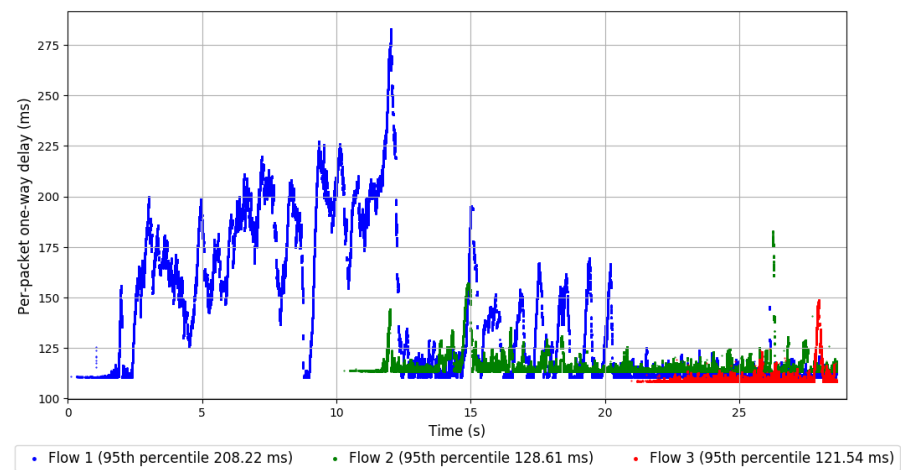
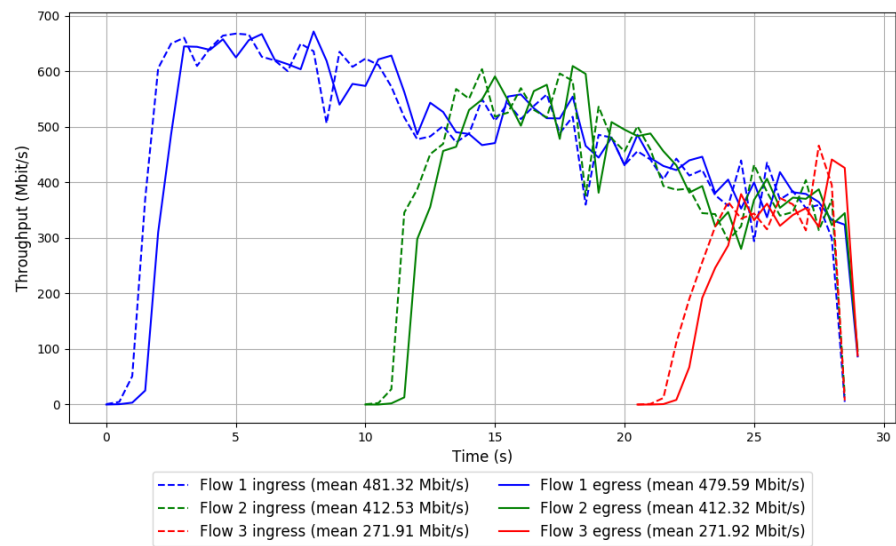
-- Flow 3:

Average throughput: 271.92 Mbit/s

95th percentile per-packet one-way delay: 121.542 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesT — Data Link

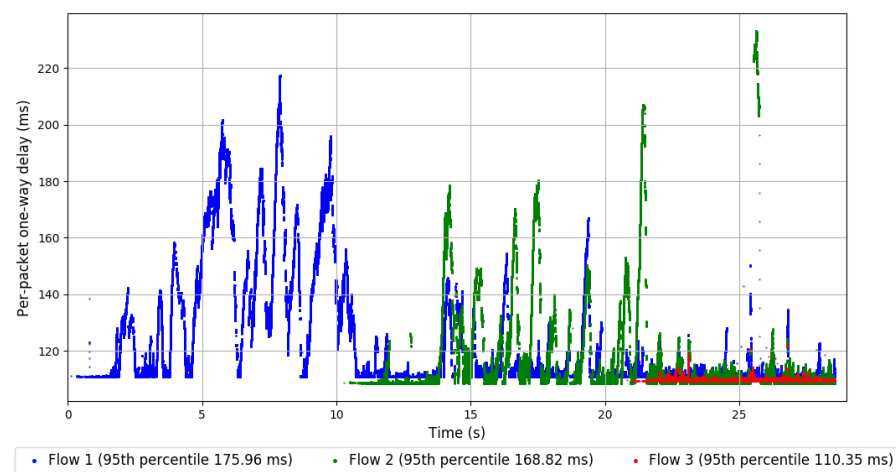
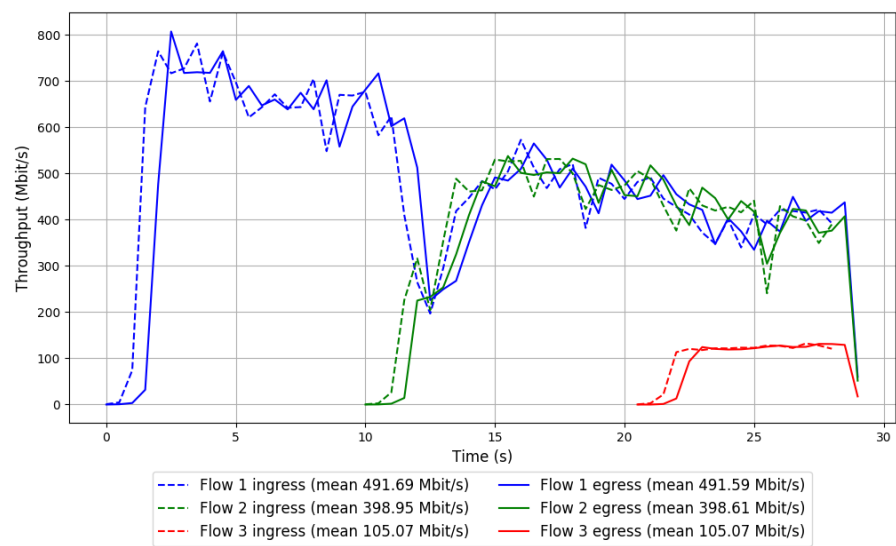


Run 4: Statistics of Indigo-MusesT

Start at: 2019-03-09 02:35:50
End at: 2019-03-09 02:36:20
Local clock offset: -0.273 ms
Remote clock offset: -0.078 ms

Below is generated by plot.py at 2019-03-09 05:02:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 776.36 Mbit/s
95th percentile per-packet one-way delay: 174.161 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 491.59 Mbit/s
95th percentile per-packet one-way delay: 175.960 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 398.61 Mbit/s
95th percentile per-packet one-way delay: 168.816 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 105.07 Mbit/s
95th percentile per-packet one-way delay: 110.352 ms
Loss rate: 0.00%

Run 4: Report of Indigo-MusesT — Data Link

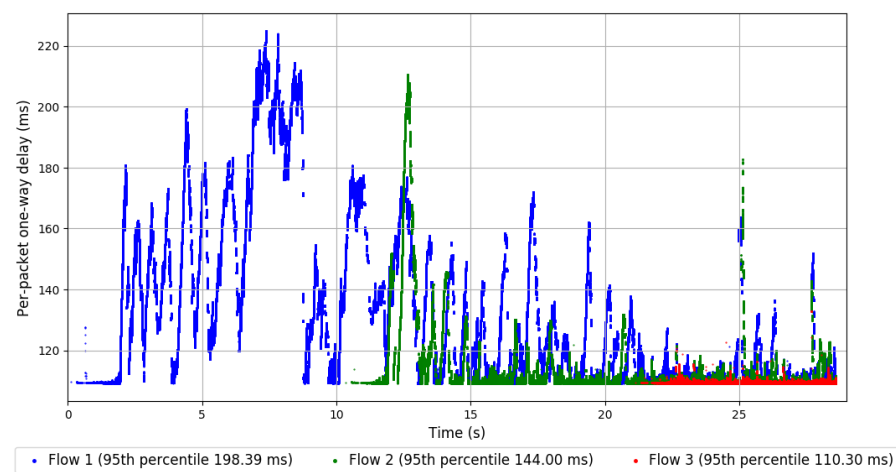
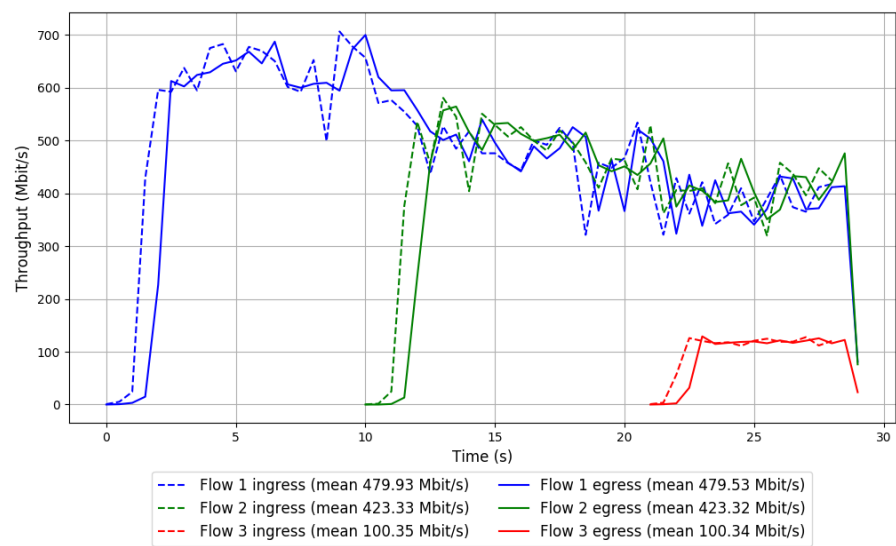


Run 5: Statistics of Indigo-MusesT

Start at: 2019-03-09 03:12:57
End at: 2019-03-09 03:13:27
Local clock offset: -0.248 ms
Remote clock offset: -0.097 ms

Below is generated by plot.py at 2019-03-09 05:03:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 776.78 Mbit/s
95th percentile per-packet one-way delay: 191.273 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 479.53 Mbit/s
95th percentile per-packet one-way delay: 198.389 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 423.32 Mbit/s
95th percentile per-packet one-way delay: 144.001 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 100.34 Mbit/s
95th percentile per-packet one-way delay: 110.302 ms
Loss rate: 0.01%

Run 5: Report of Indigo-MusesT — Data Link

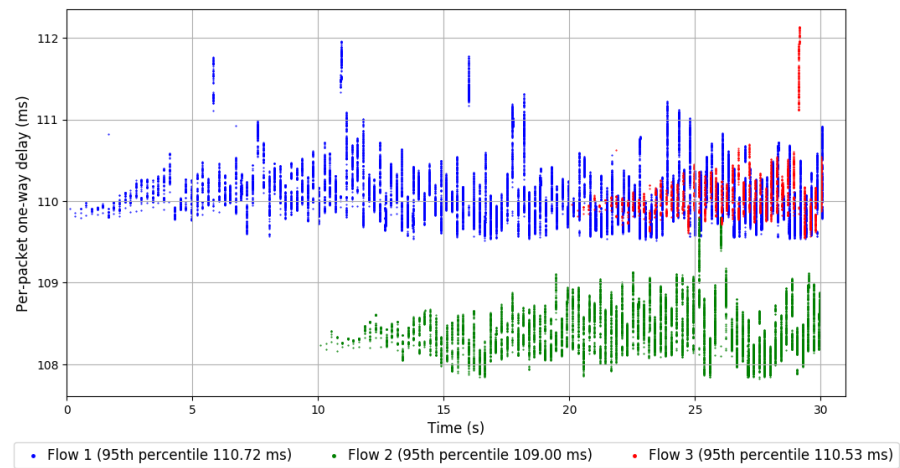
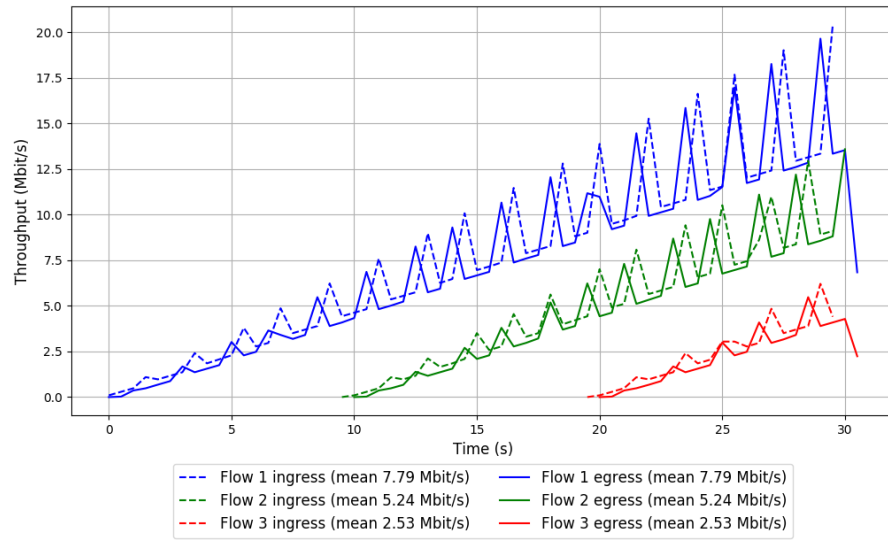


```
Run 1: Statistics of LEDBAT

Start at: 2019-03-09 00:17:28
End at: 2019-03-09 00:17:58
Local clock offset: 0.391 ms
Remote clock offset: 0.057 ms

# Below is generated by plot.py at 2019-03-09 05:03:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.10 Mbit/s
95th percentile per-packet one-way delay: 110.597 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.79 Mbit/s
95th percentile per-packet one-way delay: 110.721 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 108.999 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.53 Mbit/s
95th percentile per-packet one-way delay: 110.531 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

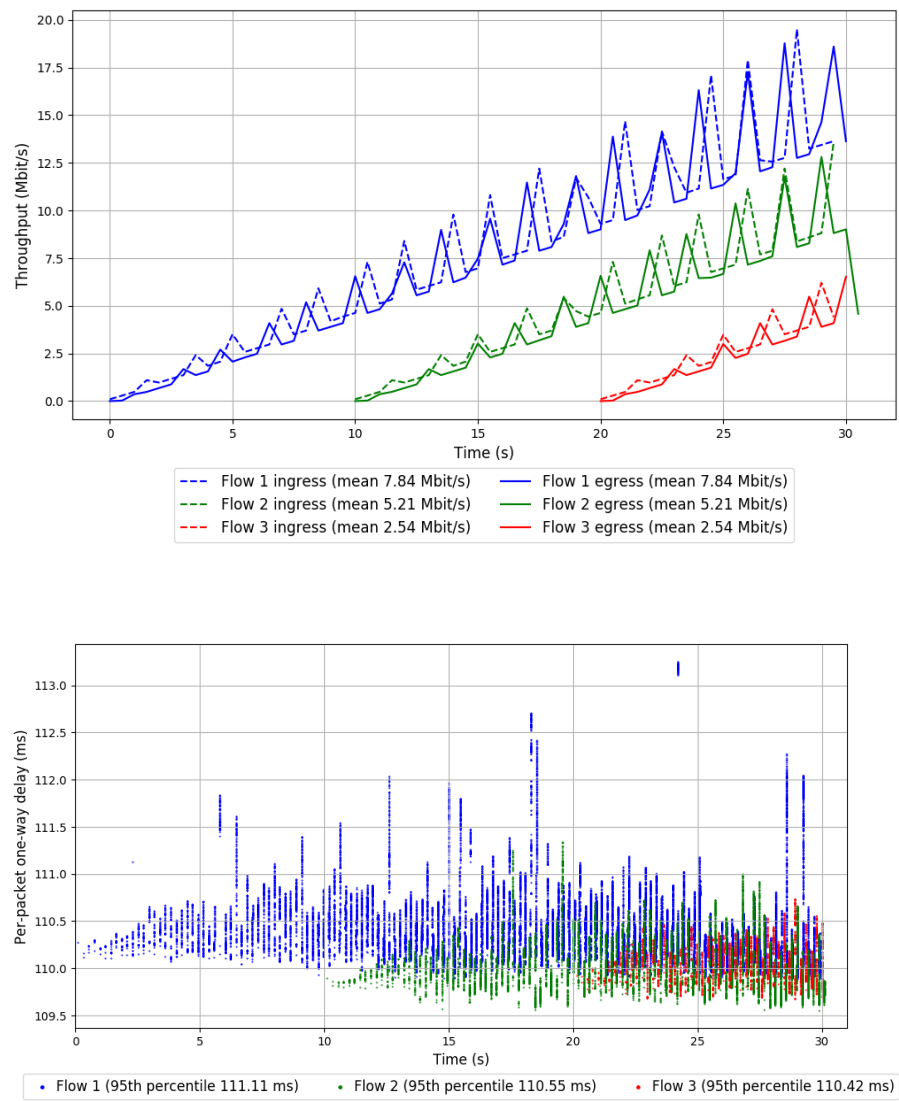


Run 2: Statistics of LEDBAT

Start at: 2019-03-09 00:54:23
End at: 2019-03-09 00:54:53
Local clock offset: -0.625 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2019-03-09 05:03:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.09 Mbit/s
95th percentile per-packet one-way delay: 110.919 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.84 Mbit/s
95th percentile per-packet one-way delay: 111.105 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.21 Mbit/s
95th percentile per-packet one-way delay: 110.548 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.54 Mbit/s
95th percentile per-packet one-way delay: 110.423 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

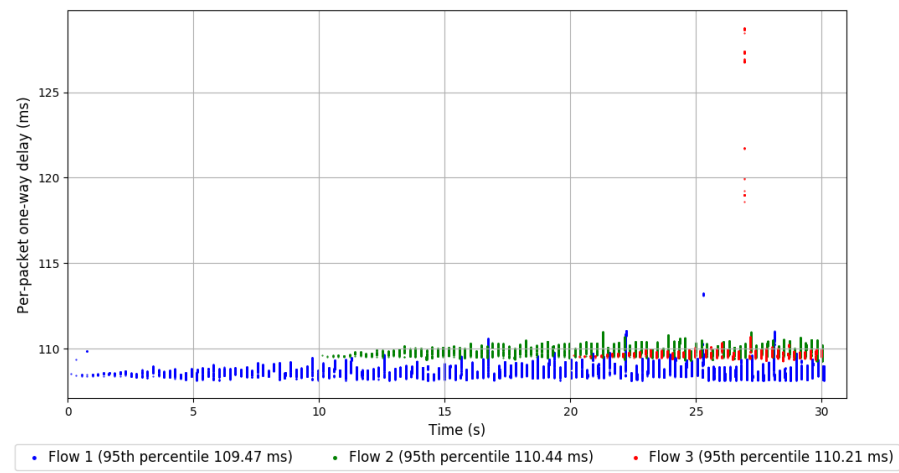
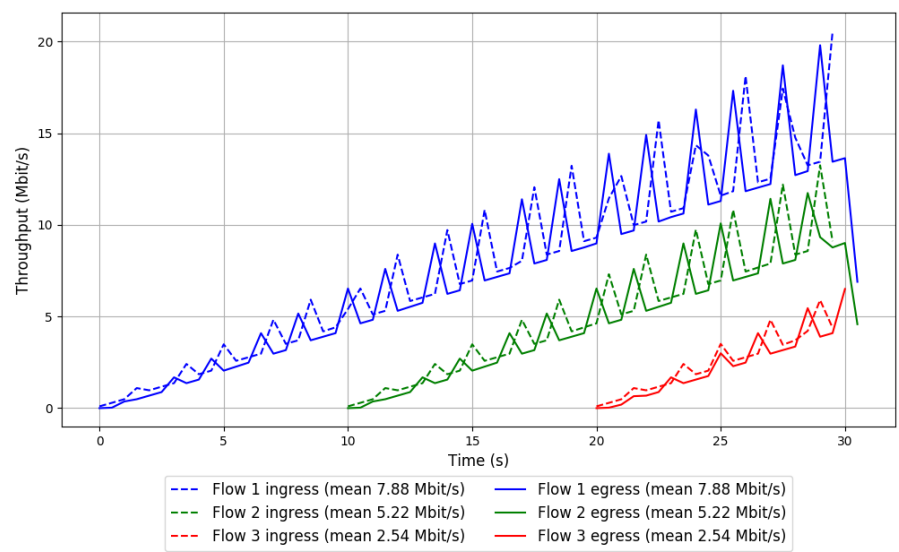


Run 3: Statistics of LEDBAT

Start at: 2019-03-09 01:31:40
End at: 2019-03-09 01:32:10
Local clock offset: -0.017 ms
Remote clock offset: -0.12 ms

Below is generated by plot.py at 2019-03-09 05:03:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.19 Mbit/s
95th percentile per-packet one-way delay: 110.290 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.88 Mbit/s
95th percentile per-packet one-way delay: 109.467 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 110.444 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.54 Mbit/s
95th percentile per-packet one-way delay: 110.207 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

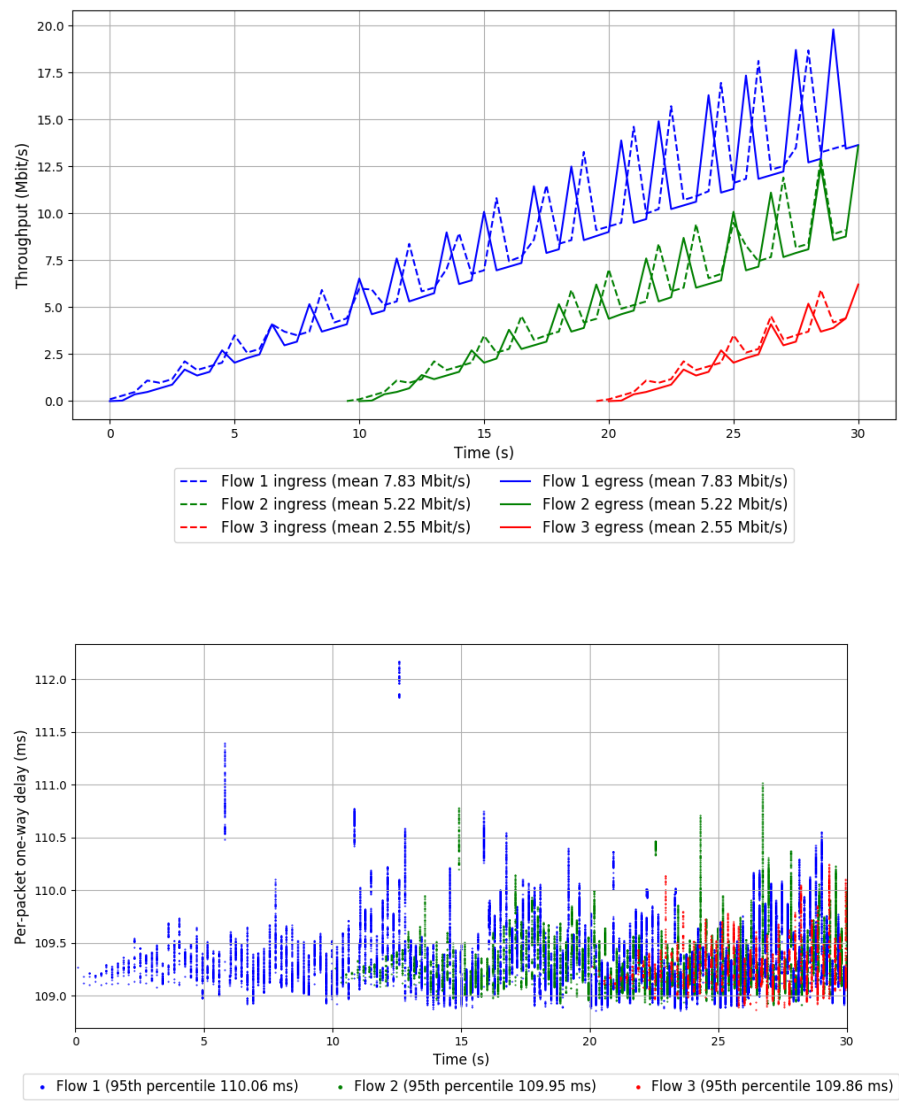


Run 4: Statistics of LEDBAT

Start at: 2019-03-09 02:09:14
End at: 2019-03-09 02:09:44
Local clock offset: -0.734 ms
Remote clock offset: -0.109 ms

Below is generated by plot.py at 2019-03-09 05:03:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.12 Mbit/s
95th percentile per-packet one-way delay: 110.019 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.83 Mbit/s
95th percentile per-packet one-way delay: 110.056 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 109.949 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 109.863 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

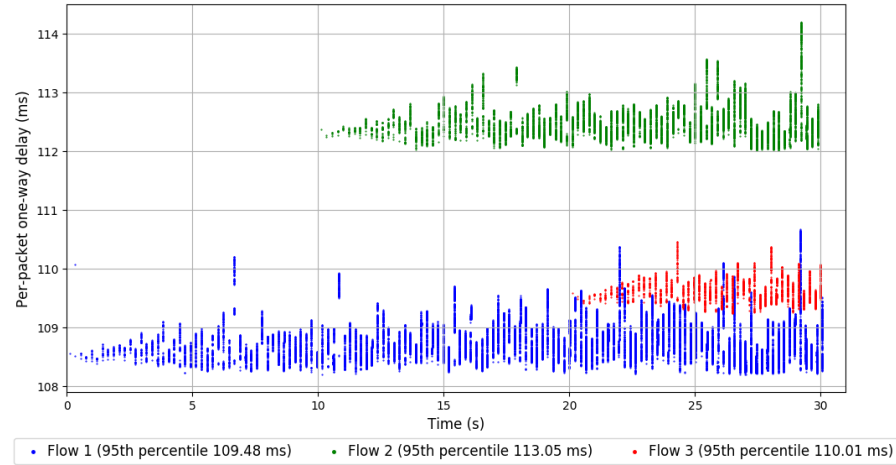
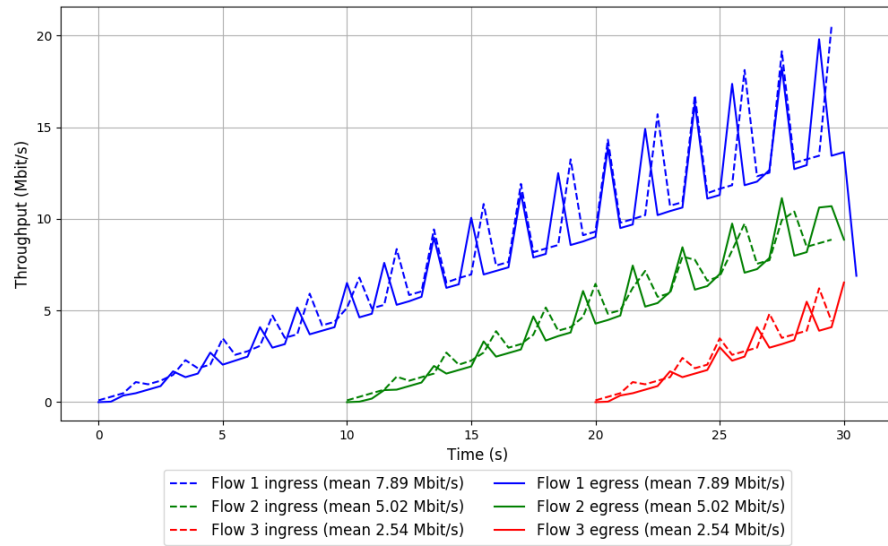


Run 5: Statistics of LEDBAT

Start at: 2019-03-09 02:47:12
End at: 2019-03-09 02:47:42
Local clock offset: -0.038 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2019-03-09 05:03:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.04 Mbit/s
95th percentile per-packet one-way delay: 112.699 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.89 Mbit/s
95th percentile per-packet one-way delay: 109.479 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.02 Mbit/s
95th percentile per-packet one-way delay: 113.050 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.54 Mbit/s
95th percentile per-packet one-way delay: 110.012 ms
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-03-09 00:45:03

End at: 2019-03-09 00:45:33

Local clock offset: -0.357 ms

Remote clock offset: 0.011 ms

Below is generated by plot.py at 2019-03-09 05:13:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 619.91 Mbit/s

95th percentile per-packet one-way delay: 257.062 ms

Loss rate: 6.10%

-- Flow 1:

Average throughput: 305.75 Mbit/s

95th percentile per-packet one-way delay: 138.332 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 362.70 Mbit/s

95th percentile per-packet one-way delay: 271.201 ms

Loss rate: 12.18%

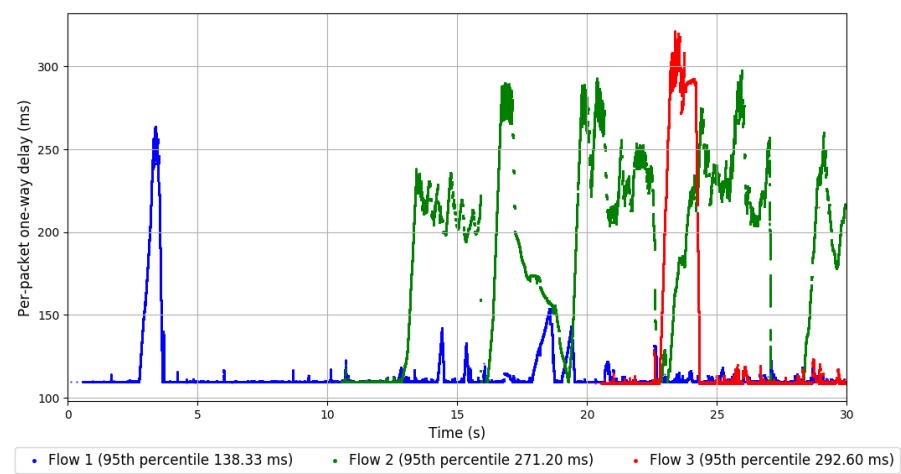
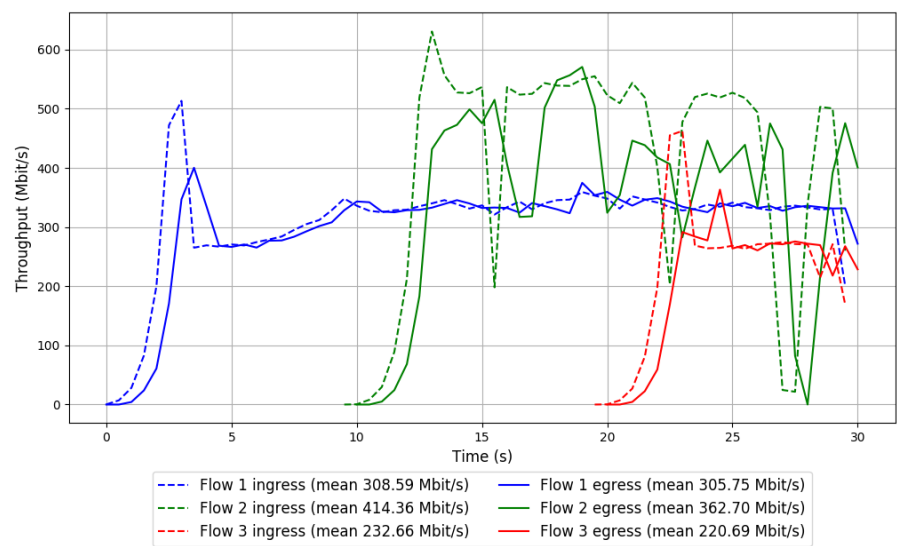
-- Flow 3:

Average throughput: 220.69 Mbit/s

95th percentile per-packet one-way delay: 292.601 ms

Loss rate: 5.12%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-03-09 01:22:27

End at: 2019-03-09 01:22:57

Local clock offset: 0.02 ms

Remote clock offset: 0.284 ms

Below is generated by plot.py at 2019-03-09 05:13:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 565.50 Mbit/s

95th percentile per-packet one-way delay: 215.067 ms

Loss rate: 1.64%

-- Flow 1:

Average throughput: 301.06 Mbit/s

95th percentile per-packet one-way delay: 224.160 ms

Loss rate: 2.13%

-- Flow 2:

Average throughput: 283.32 Mbit/s

95th percentile per-packet one-way delay: 153.602 ms

Loss rate: 0.63%

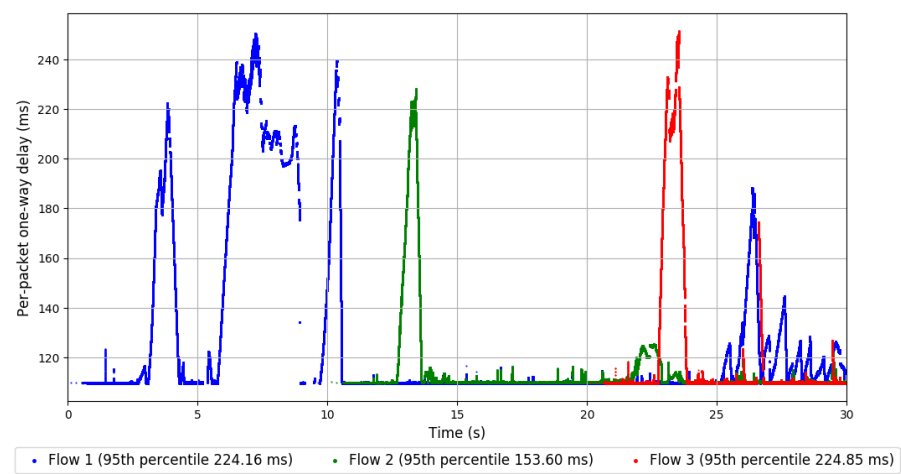
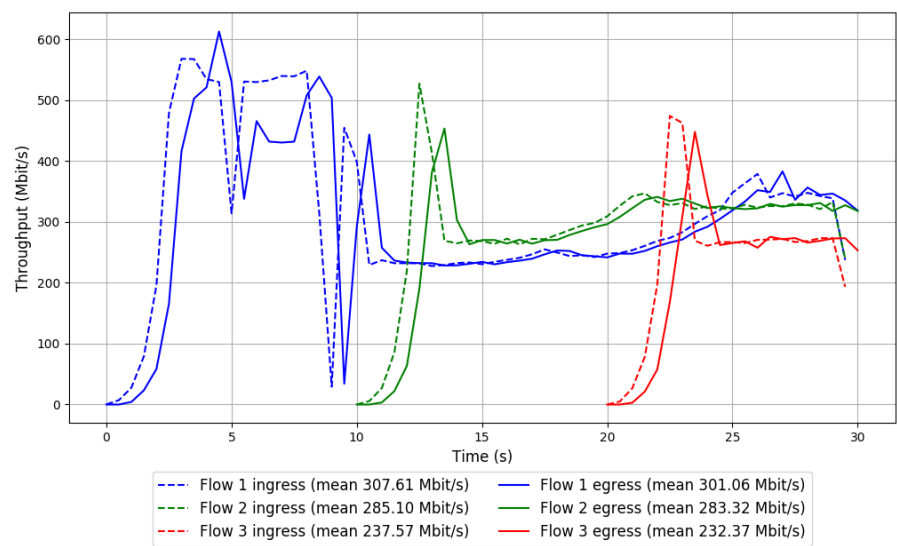
-- Flow 3:

Average throughput: 232.37 Mbit/s

95th percentile per-packet one-way delay: 224.848 ms

Loss rate: 2.19%

Run 2: Report of PCC-Allegro — Data Link

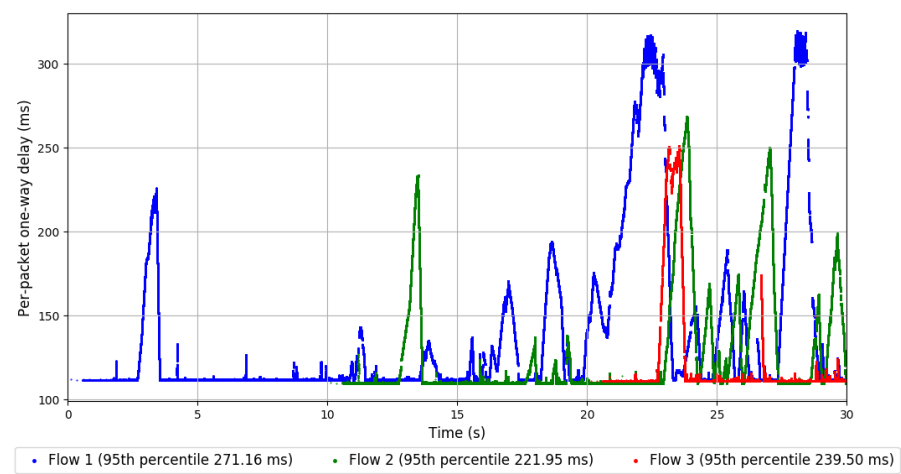
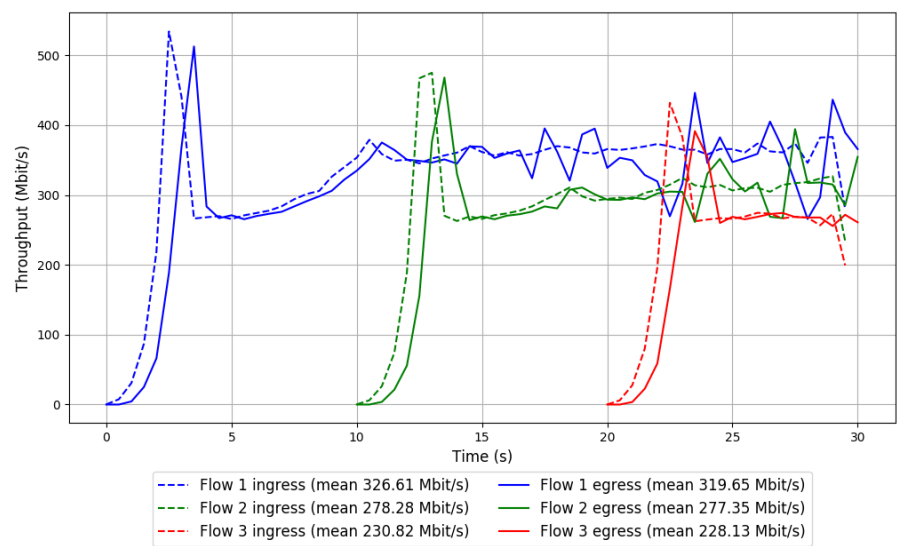


Run 3: Statistics of PCC-Allegro

Start at: 2019-03-09 01:59:55
End at: 2019-03-09 02:00:25
Local clock offset: -0.264 ms
Remote clock offset: -0.142 ms

Below is generated by plot.py at 2019-03-09 05:13:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 579.02 Mbit/s
95th percentile per-packet one-way delay: 239.508 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 319.65 Mbit/s
95th percentile per-packet one-way delay: 271.161 ms
Loss rate: 2.13%
-- Flow 2:
Average throughput: 277.35 Mbit/s
95th percentile per-packet one-way delay: 221.948 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 228.13 Mbit/s
95th percentile per-packet one-way delay: 239.504 ms
Loss rate: 1.17%

Run 3: Report of PCC-Allegro — Data Link

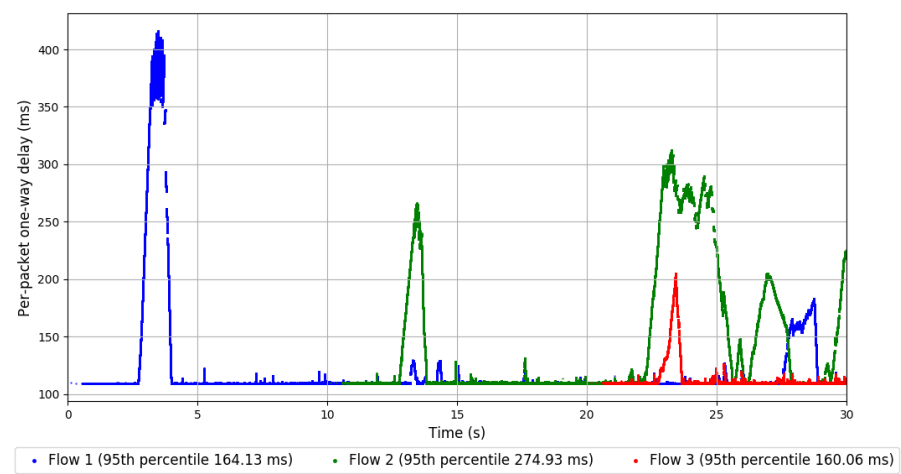
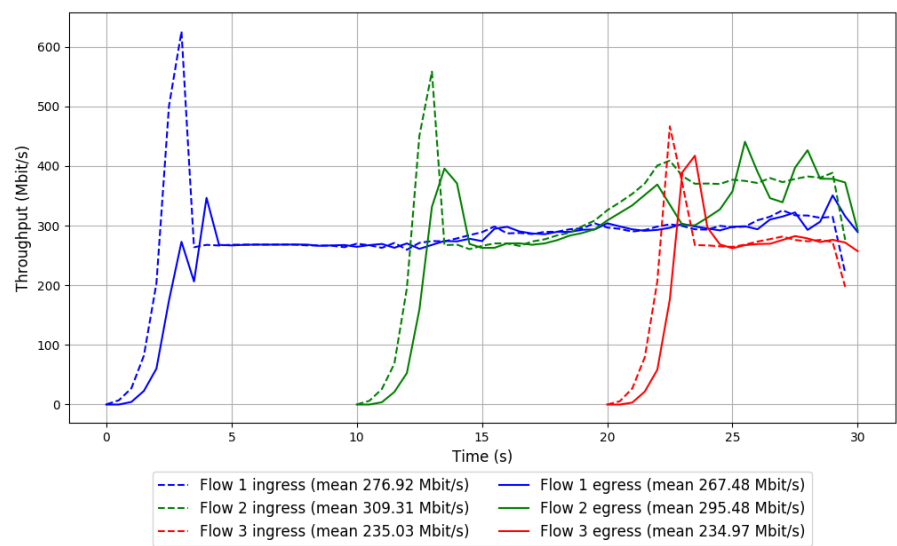


Run 4: Statistics of PCC-Allegro

Start at: 2019-03-09 02:37:49
End at: 2019-03-09 02:38:19
Local clock offset: -0.268 ms
Remote clock offset: -0.133 ms

Below is generated by plot.py at 2019-03-09 05:17:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 541.09 Mbit/s
95th percentile per-packet one-way delay: 255.113 ms
Loss rate: 3.33%
-- Flow 1:
Average throughput: 267.48 Mbit/s
95th percentile per-packet one-way delay: 164.132 ms
Loss rate: 3.41%
-- Flow 2:
Average throughput: 295.48 Mbit/s
95th percentile per-packet one-way delay: 274.933 ms
Loss rate: 4.46%
-- Flow 3:
Average throughput: 234.97 Mbit/s
95th percentile per-packet one-way delay: 160.062 ms
Loss rate: 0.02%

Run 4: Report of PCC-Allegro — Data Link

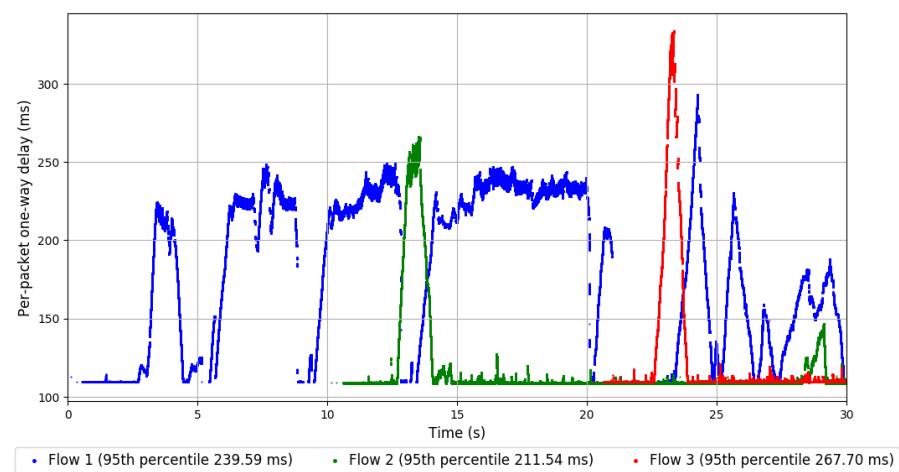
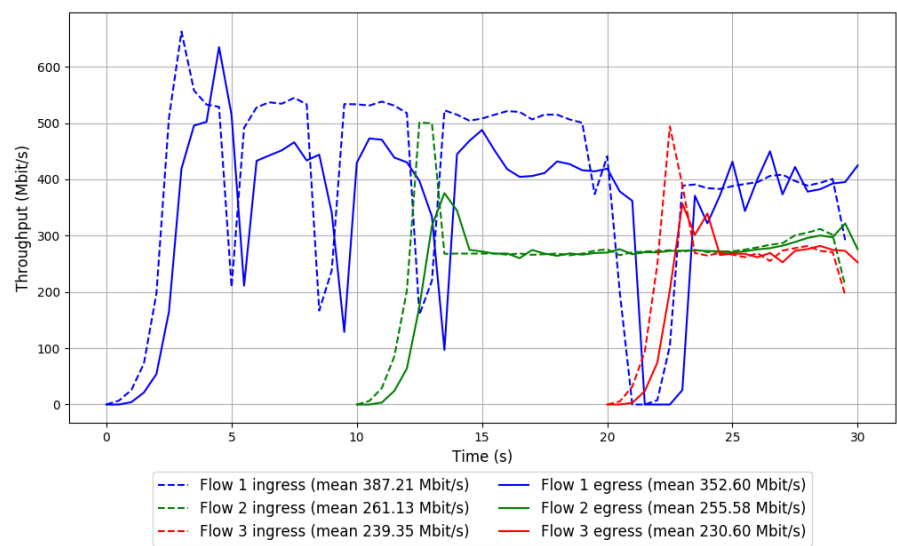


Run 5: Statistics of PCC-Allegro

Start at: 2019-03-09 03:14:56
End at: 2019-03-09 03:15:26
Local clock offset: -0.366 ms
Remote clock offset: -0.123 ms

Below is generated by plot.py at 2019-03-09 05:21:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 597.94 Mbit/s
95th percentile per-packet one-way delay: 239.220 ms
Loss rate: 6.45%
-- Flow 1:
Average throughput: 352.60 Mbit/s
95th percentile per-packet one-way delay: 239.589 ms
Loss rate: 8.95%
-- Flow 2:
Average throughput: 255.58 Mbit/s
95th percentile per-packet one-way delay: 211.544 ms
Loss rate: 2.12%
-- Flow 3:
Average throughput: 230.60 Mbit/s
95th percentile per-packet one-way delay: 267.704 ms
Loss rate: 3.66%

Run 5: Report of PCC-Allegro — Data Link

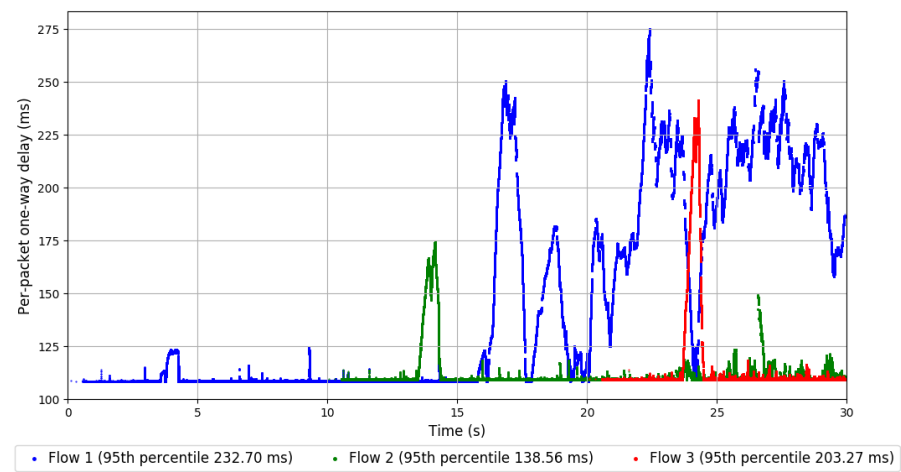
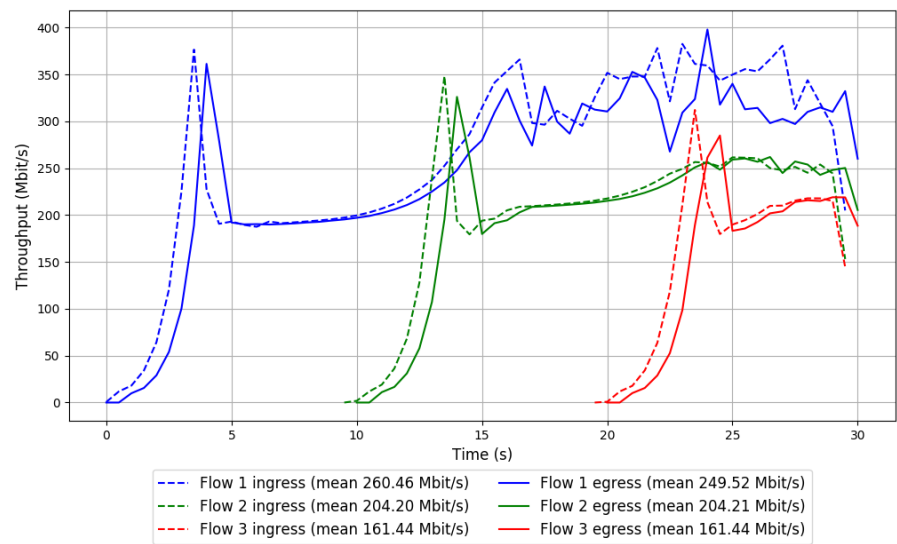


```
Run 1: Statistics of PCC-Expr

Start at: 2019-03-09 00:34:57
End at: 2019-03-09 00:35:27
Local clock offset: -0.138 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-03-09 05:21:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 438.91 Mbit/s
95th percentile per-packet one-way delay: 227.106 ms
Loss rate: 2.43%
-- Flow 1:
Average throughput: 249.52 Mbit/s
95th percentile per-packet one-way delay: 232.701 ms
Loss rate: 4.20%
-- Flow 2:
Average throughput: 204.21 Mbit/s
95th percentile per-packet one-way delay: 138.559 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 161.44 Mbit/s
95th percentile per-packet one-way delay: 203.268 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-03-09 01:12:26

End at: 2019-03-09 01:12:56

Local clock offset: -0.583 ms

Remote clock offset: -0.15 ms

Below is generated by plot.py at 2019-03-09 05:21:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 429.25 Mbit/s

95th percentile per-packet one-way delay: 225.528 ms

Loss rate: 2.51%

-- Flow 1:

Average throughput: 251.00 Mbit/s

95th percentile per-packet one-way delay: 228.697 ms

Loss rate: 4.21%

-- Flow 2:

Average throughput: 191.92 Mbit/s

95th percentile per-packet one-way delay: 115.047 ms

Loss rate: 0.01%

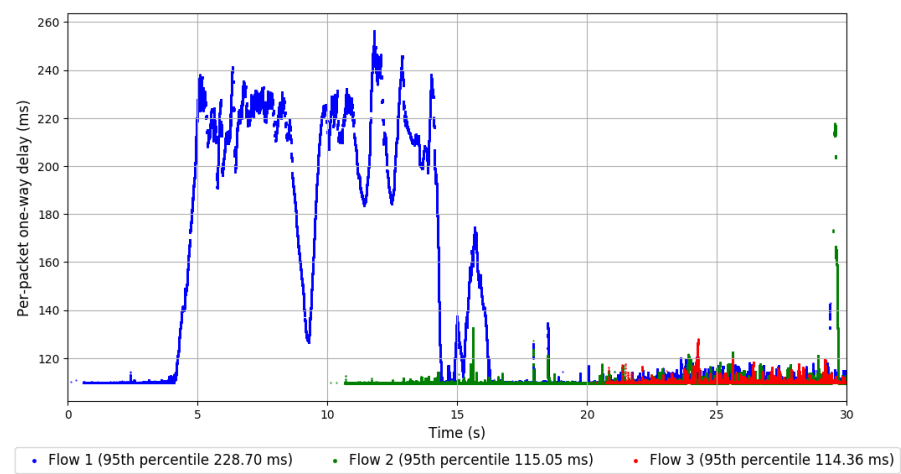
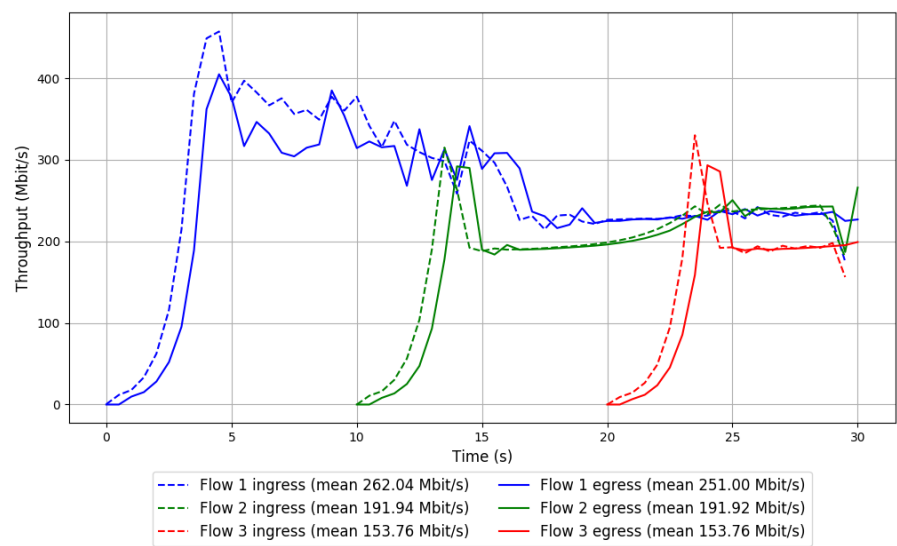
-- Flow 3:

Average throughput: 153.76 Mbit/s

95th percentile per-packet one-way delay: 114.356 ms

Loss rate: 0.00%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-03-09 01:49:42

End at: 2019-03-09 01:50:12

Local clock offset: -0.26 ms

Remote clock offset: 0.262 ms

Below is generated by plot.py at 2019-03-09 05:21:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 423.22 Mbit/s

95th percentile per-packet one-way delay: 229.145 ms

Loss rate: 2.43%

-- Flow 1:

Average throughput: 244.51 Mbit/s

95th percentile per-packet one-way delay: 232.175 ms

Loss rate: 3.88%

-- Flow 2:

Average throughput: 193.38 Mbit/s

95th percentile per-packet one-way delay: 170.411 ms

Loss rate: 0.16%

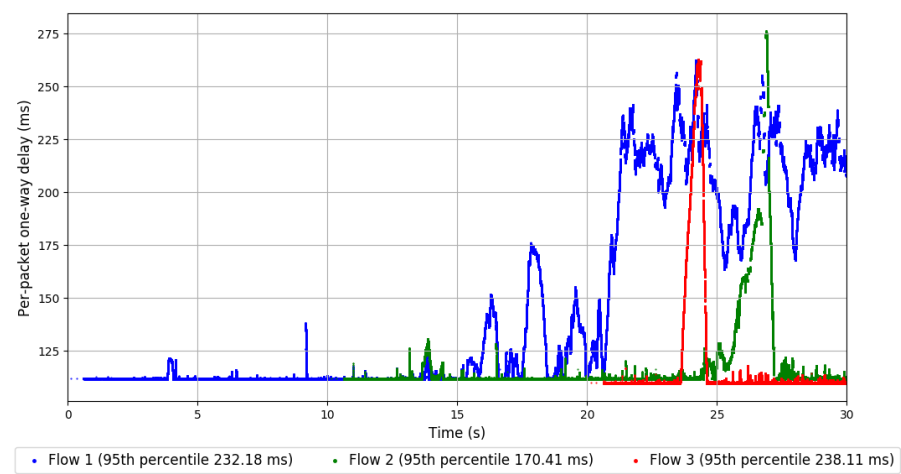
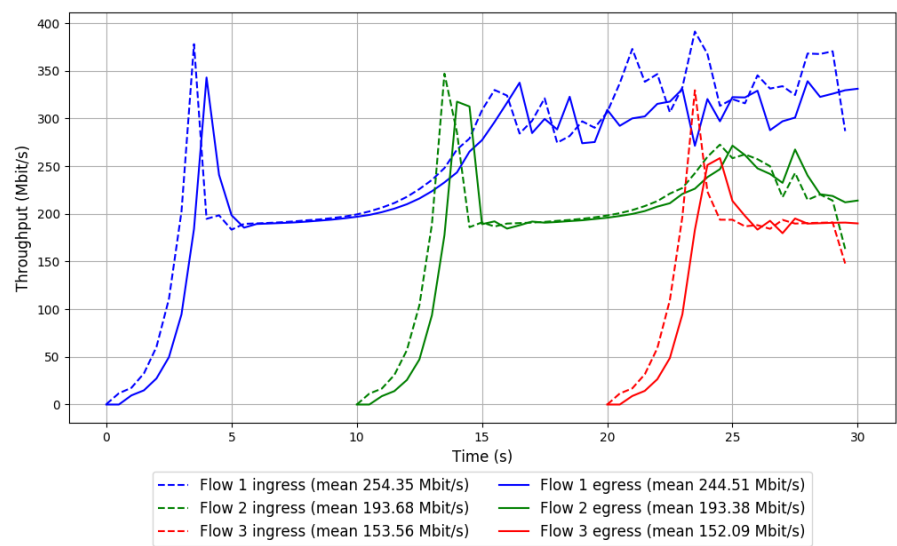
-- Flow 3:

Average throughput: 152.09 Mbit/s

95th percentile per-packet one-way delay: 238.107 ms

Loss rate: 0.96%

Run 3: Report of PCC-Expr — Data Link

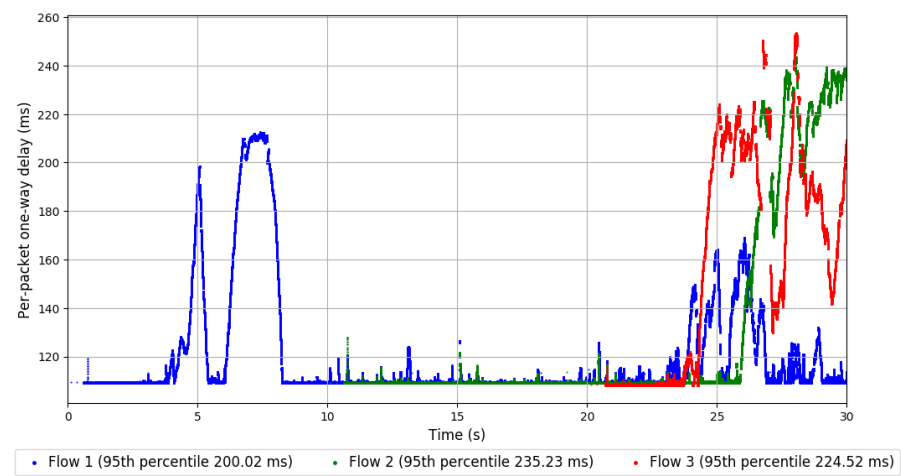
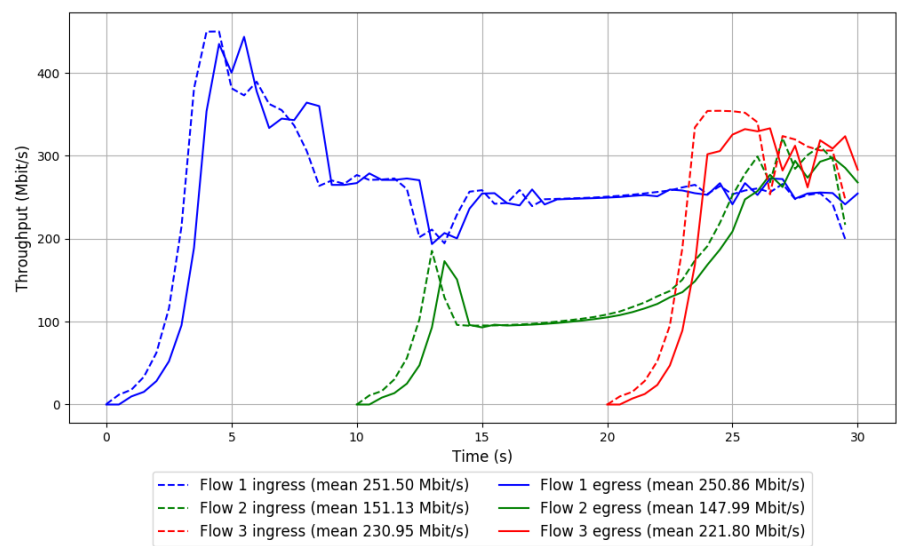


Run 4: Statistics of PCC-Expr

Start at: 2019-03-09 02:27:46
End at: 2019-03-09 02:28:16
Local clock offset: -0.094 ms
Remote clock offset: -0.181 ms

Below is generated by plot.py at 2019-03-09 05:25:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 422.29 Mbit/s
95th percentile per-packet one-way delay: 221.748 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 250.86 Mbit/s
95th percentile per-packet one-way delay: 200.022 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 147.99 Mbit/s
95th percentile per-packet one-way delay: 235.232 ms
Loss rate: 2.08%
-- Flow 3:
Average throughput: 221.80 Mbit/s
95th percentile per-packet one-way delay: 224.524 ms
Loss rate: 3.97%

Run 4: Report of PCC-Expr — Data Link

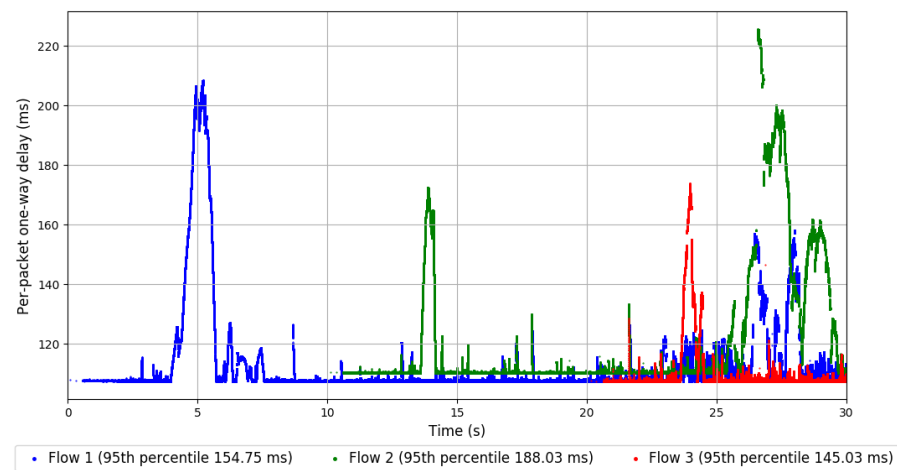
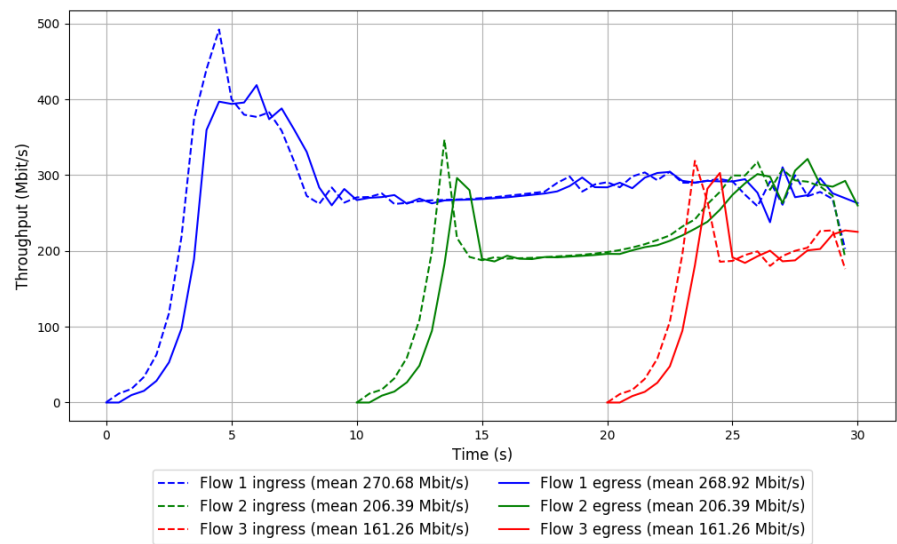


Run 5: Statistics of PCC-Expr

Start at: 2019-03-09 03:04:54
End at: 2019-03-09 03:05:24
Local clock offset: 0.31 ms
Remote clock offset: -0.413 ms

Below is generated by plot.py at 2019-03-09 05:28:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 459.26 Mbit/s
95th percentile per-packet one-way delay: 169.122 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 268.92 Mbit/s
95th percentile per-packet one-way delay: 154.745 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 206.39 Mbit/s
95th percentile per-packet one-way delay: 188.034 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 161.26 Mbit/s
95th percentile per-packet one-way delay: 145.032 ms
Loss rate: 0.00%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-03-09 00:14:20

End at: 2019-03-09 00:14:50

Local clock offset: -0.196 ms

Remote clock offset: -0.25 ms

Below is generated by plot.py at 2019-03-09 05:28:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.99 Mbit/s

95th percentile per-packet one-way delay: 108.232 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 110.843 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.14 Mbit/s

95th percentile per-packet one-way delay: 108.106 ms

Loss rate: 0.00%

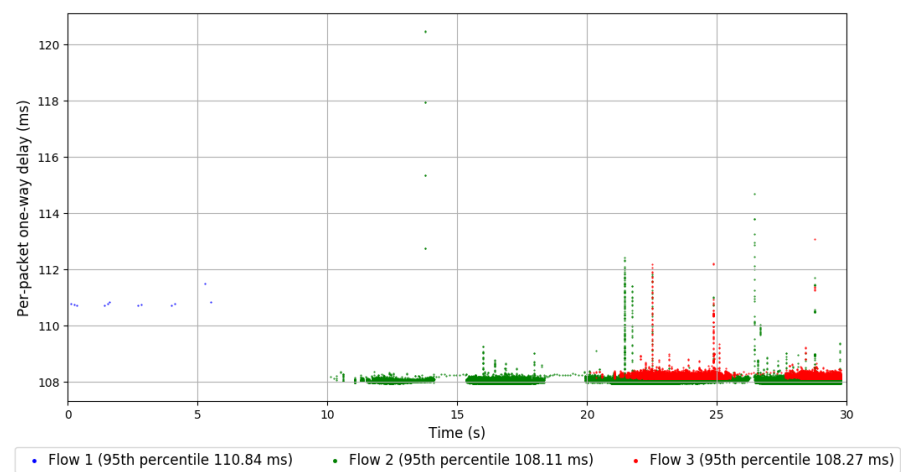
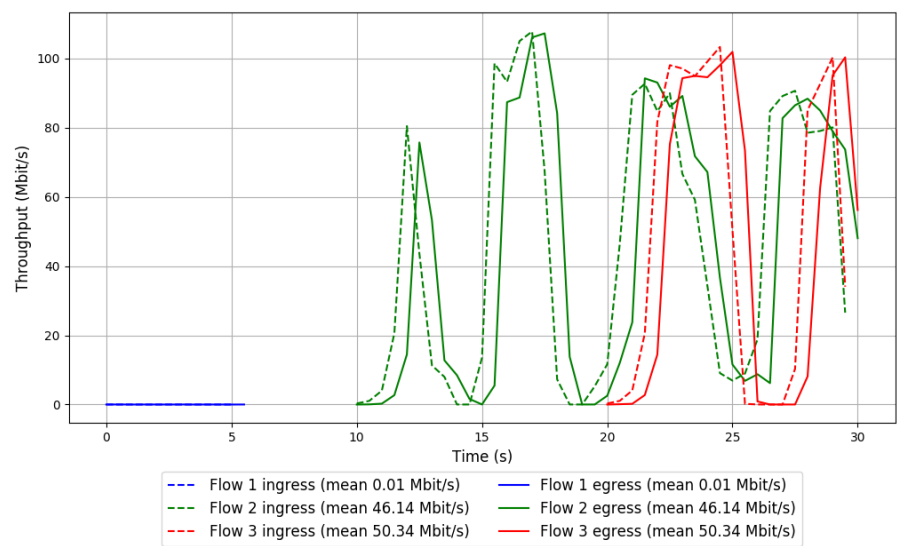
-- Flow 3:

Average throughput: 50.34 Mbit/s

95th percentile per-packet one-way delay: 108.273 ms

Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-03-09 00:51:08

End at: 2019-03-09 00:51:38

Local clock offset: -0.098 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2019-03-09 05:28:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.96 Mbit/s

95th percentile per-packet one-way delay: 109.215 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.75 Mbit/s

95th percentile per-packet one-way delay: 109.225 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.87 Mbit/s

95th percentile per-packet one-way delay: 109.201 ms

Loss rate: 0.00%

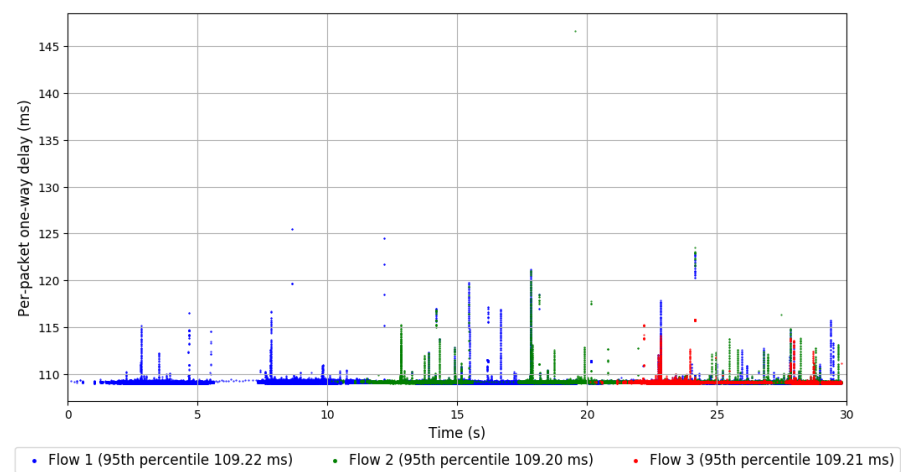
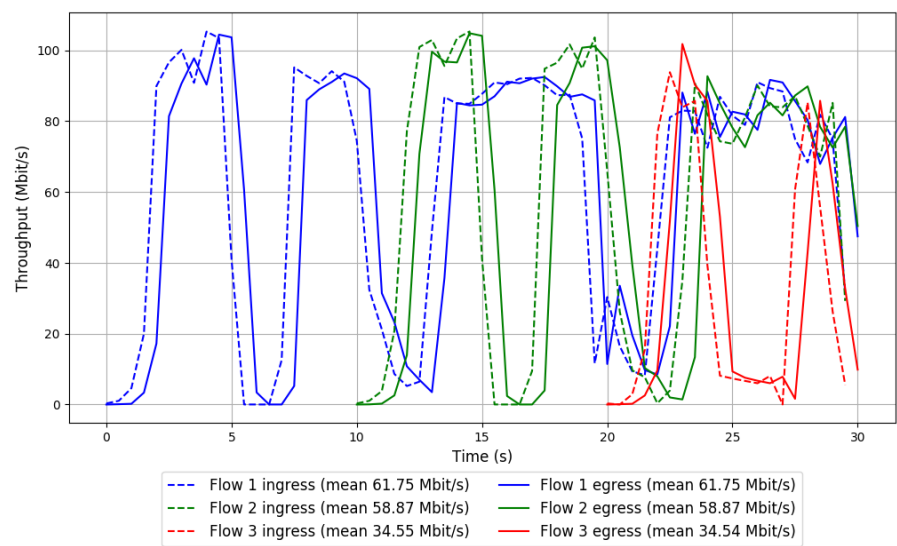
-- Flow 3:

Average throughput: 34.54 Mbit/s

95th percentile per-packet one-way delay: 109.208 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link

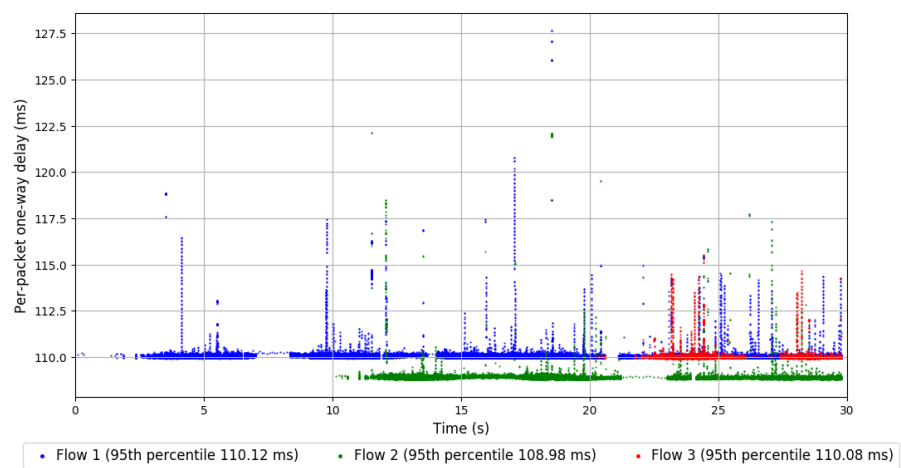
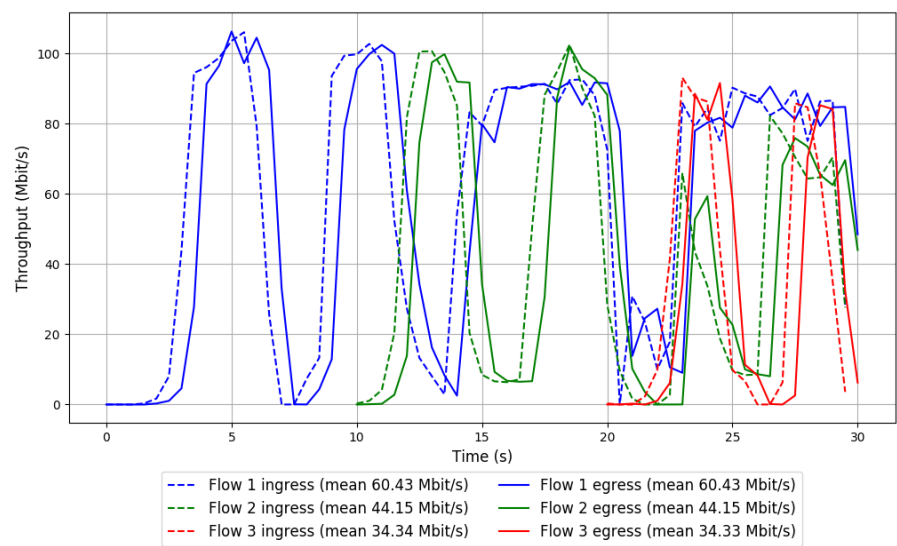


Run 3: Statistics of QUIC Cubic

Start at: 2019-03-09 01:28:24
End at: 2019-03-09 01:28:54
Local clock offset: -0.028 ms
Remote clock offset: -0.134 ms

Below is generated by plot.py at 2019-03-09 05:28:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 100.86 Mbit/s
95th percentile per-packet one-way delay: 110.104 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.43 Mbit/s
95th percentile per-packet one-way delay: 110.125 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 44.15 Mbit/s
95th percentile per-packet one-way delay: 108.983 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 34.33 Mbit/s
95th percentile per-packet one-way delay: 110.077 ms
Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link

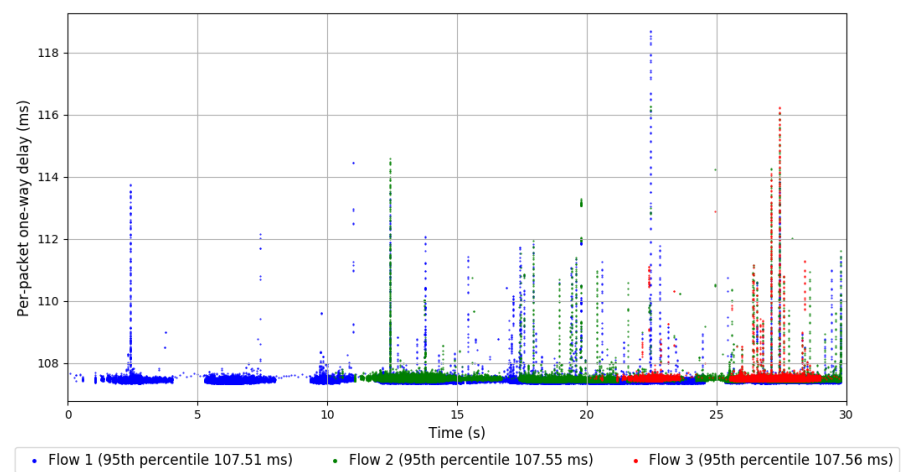
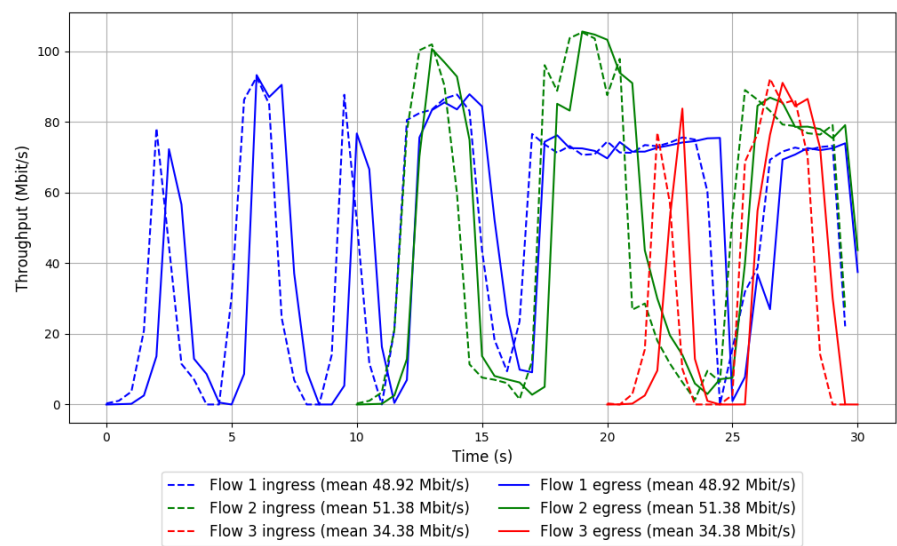


Run 4: Statistics of QUIC Cubic

Start at: 2019-03-09 02:05:59
End at: 2019-03-09 02:06:29
Local clock offset: 0.73 ms
Remote clock offset: -0.103 ms

Below is generated by plot.py at 2019-03-09 05:28:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.08 Mbit/s
95th percentile per-packet one-way delay: 107.540 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.92 Mbit/s
95th percentile per-packet one-way delay: 107.510 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 51.38 Mbit/s
95th percentile per-packet one-way delay: 107.553 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 34.38 Mbit/s
95th percentile per-packet one-way delay: 107.565 ms
Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link

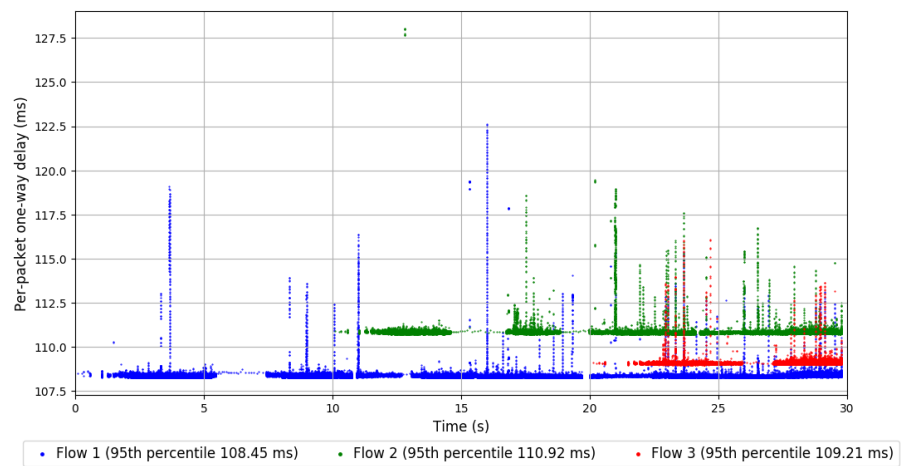
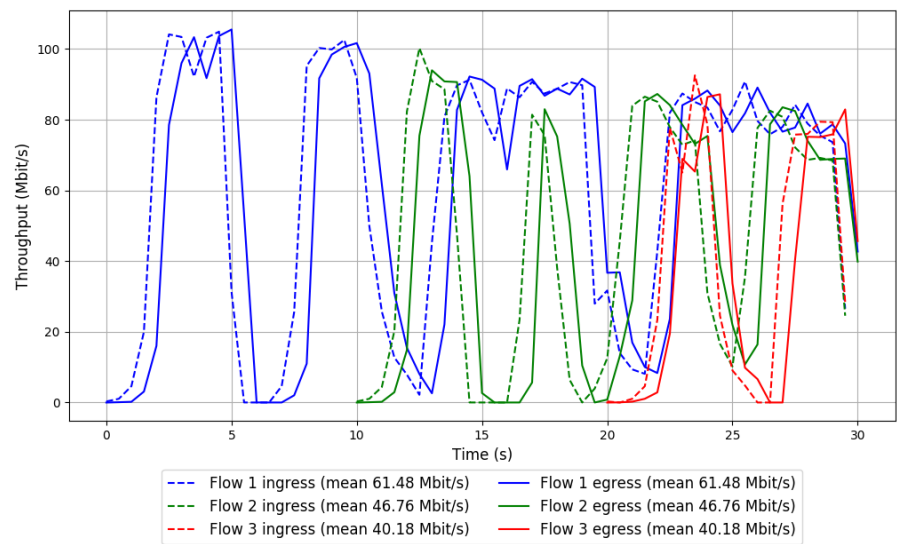


Run 5: Statistics of QUIC Cubic

Start at: 2019-03-09 02:43:50
End at: 2019-03-09 02:44:20
Local clock offset: -0.145 ms
Remote clock offset: -0.122 ms

Below is generated by plot.py at 2019-03-09 05:28:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 105.56 Mbit/s
95th percentile per-packet one-way delay: 110.850 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.48 Mbit/s
95th percentile per-packet one-way delay: 108.453 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.76 Mbit/s
95th percentile per-packet one-way delay: 110.917 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 40.18 Mbit/s
95th percentile per-packet one-way delay: 109.209 ms
Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

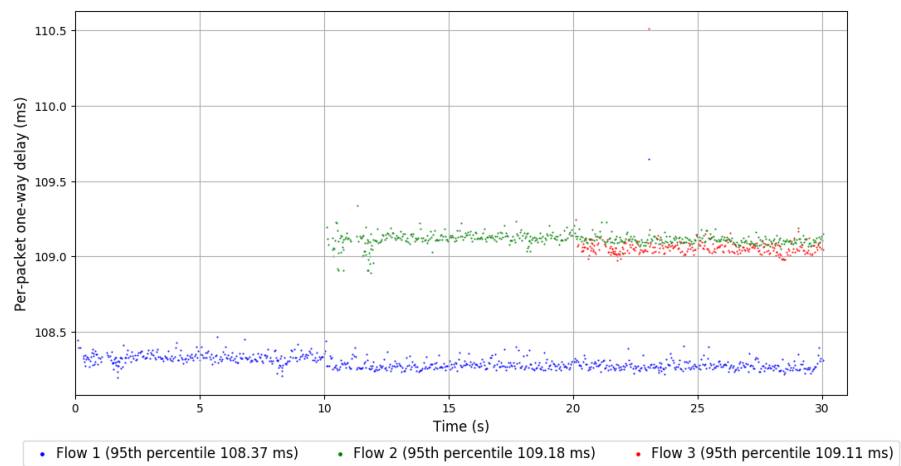
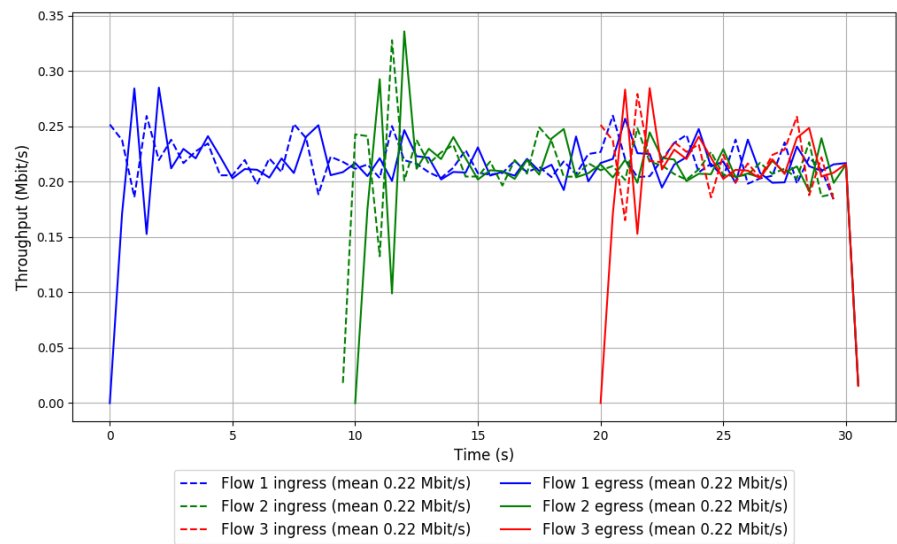


```
Run 1: Statistics of SReAM

Start at: 2019-03-09 00:41:46
End at: 2019-03-09 00:42:16
Local clock offset: -0.261 ms
Remote clock offset: -0.388 ms

# Below is generated by plot.py at 2019-03-09 05:28:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 109.150 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 108.374 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.176 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.113 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

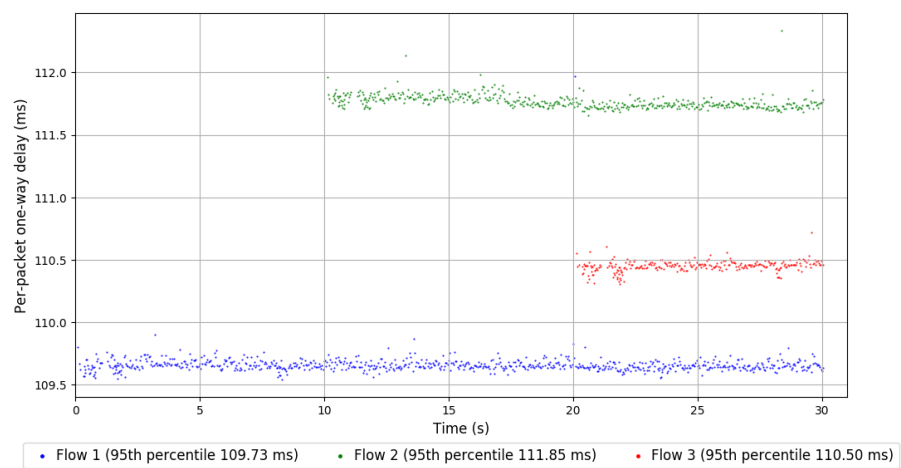
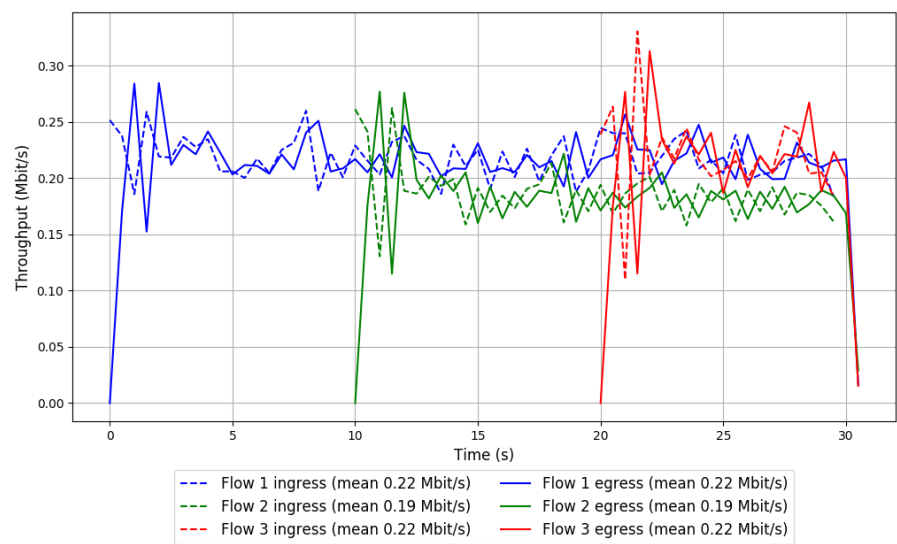


Run 2: Statistics of SCReAM

Start at: 2019-03-09 01:19:13
End at: 2019-03-09 01:19:43
Local clock offset: -0.246 ms
Remote clock offset: -0.123 ms

Below is generated by plot.py at 2019-03-09 05:28:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 111.817 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.731 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 111.851 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.504 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

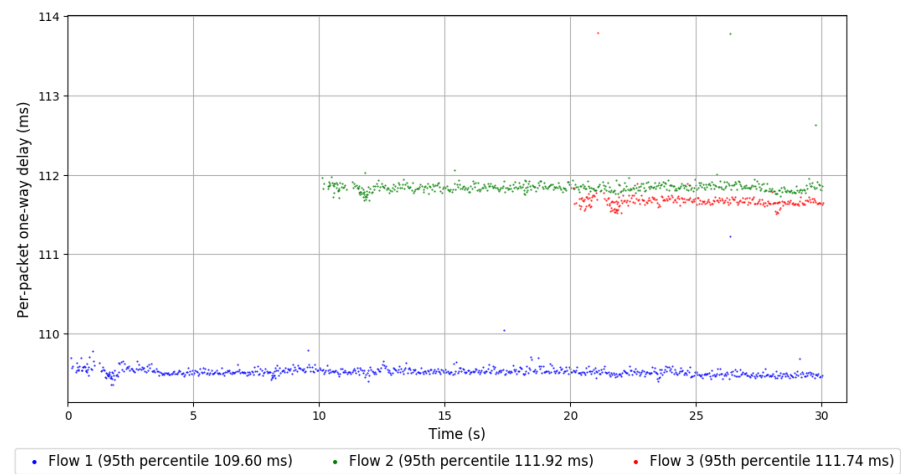
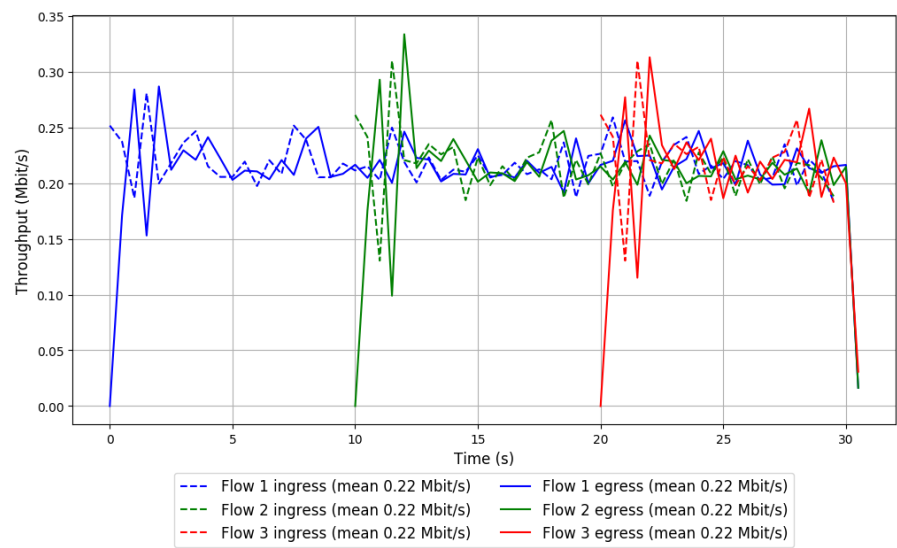


Run 3: Statistics of SReAM

Start at: 2019-03-09 01:56:38
End at: 2019-03-09 01:57:08
Local clock offset: -0.307 ms
Remote clock offset: -0.14 ms

Below is generated by plot.py at 2019-03-09 05:28:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 111.892 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.604 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.919 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.739 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

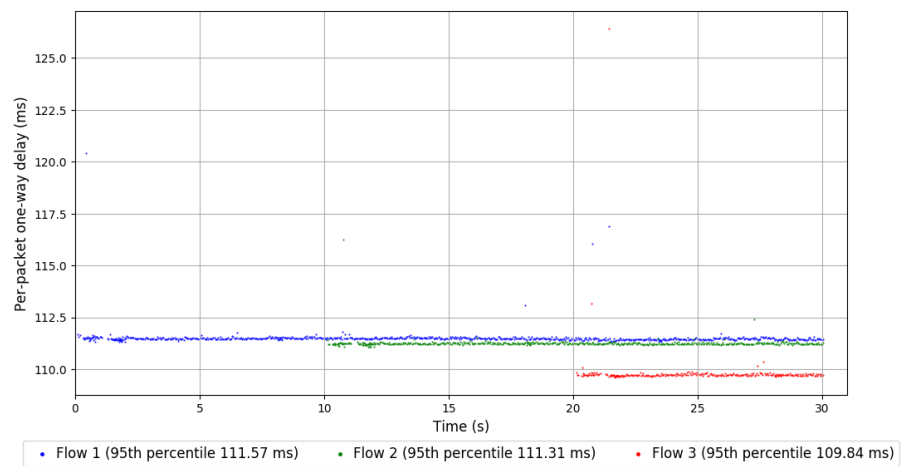
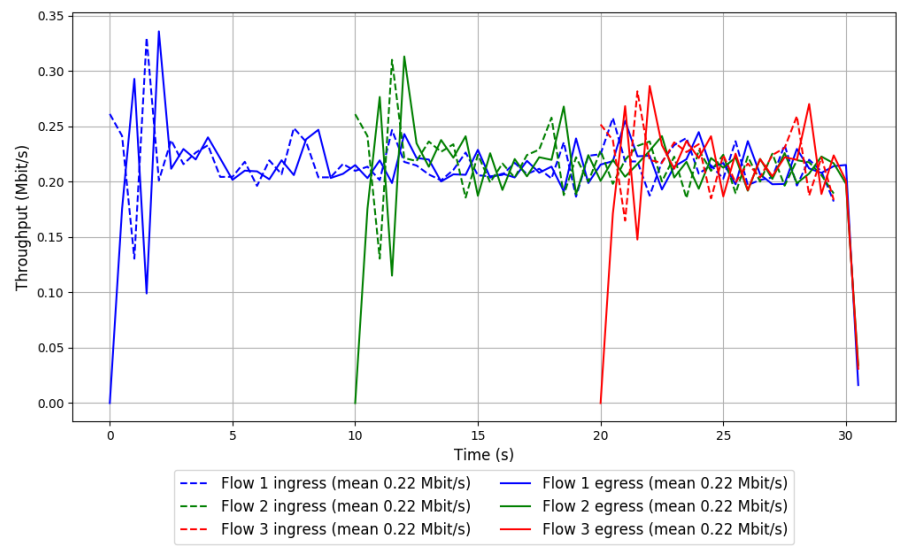


Run 4: Statistics of SReAM

Start at: 2019-03-09 02:34:33
End at: 2019-03-09 02:35:03
Local clock offset: -0.639 ms
Remote clock offset: -0.087 ms

Below is generated by plot.py at 2019-03-09 05:28:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 111.546 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.567 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.310 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.842 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

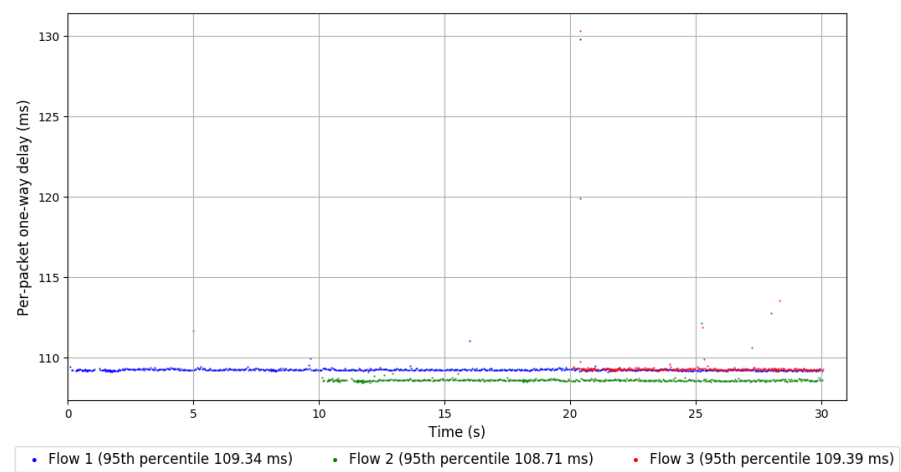
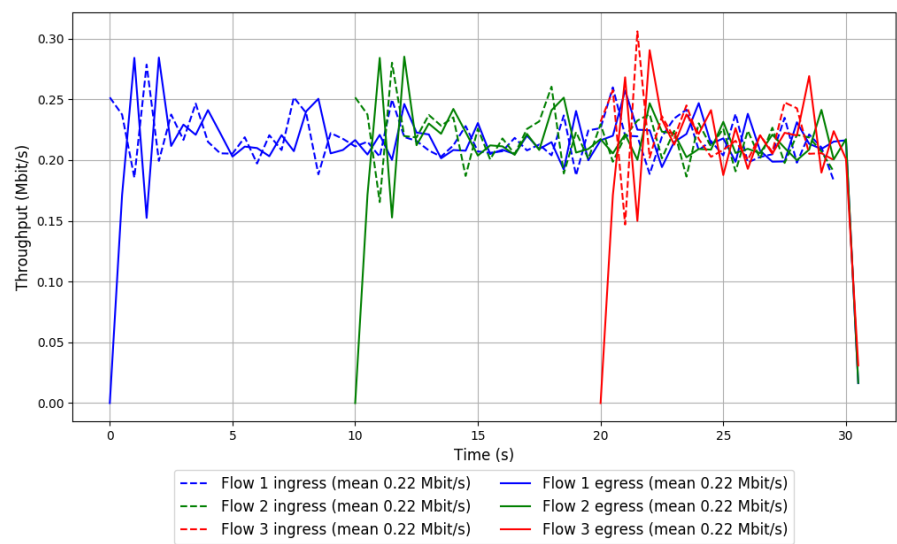


Run 5: Statistics of SReAM

Start at: 2019-03-09 03:11:41
End at: 2019-03-09 03:12:11
Local clock offset: -0.124 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2019-03-09 05:28:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 109.342 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.340 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 108.707 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.391 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-03-09 00:40:29

End at: 2019-03-09 00:40:59

Local clock offset: -0.156 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2019-03-09 05:28:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 109.839 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 109.863 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 108.959 ms

Loss rate: 0.00%

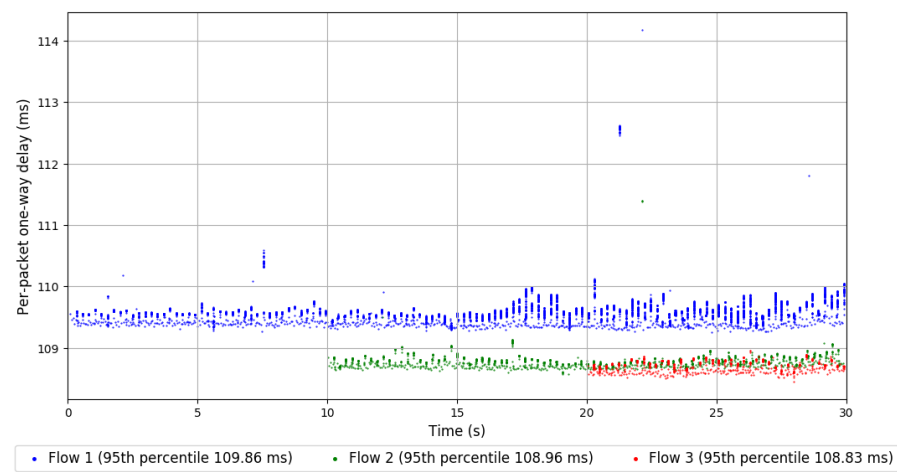
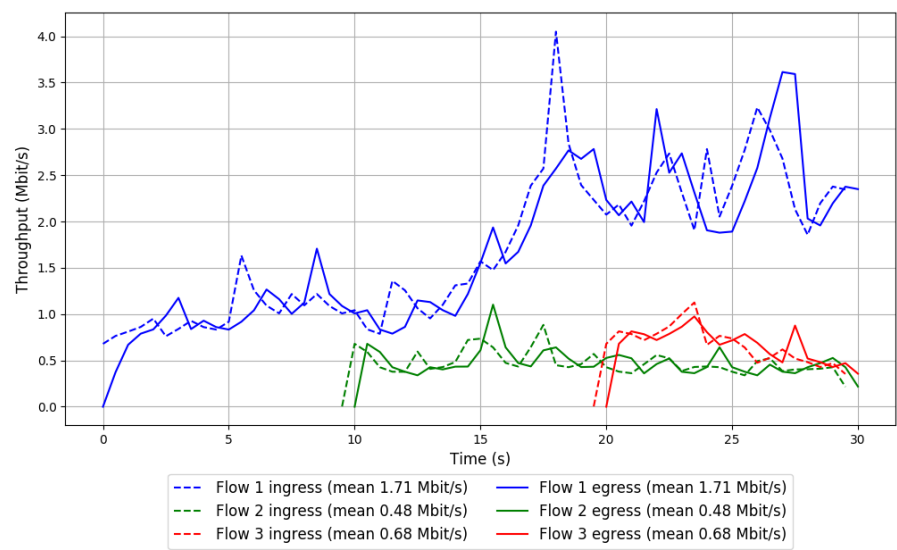
-- Flow 3:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 108.834 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

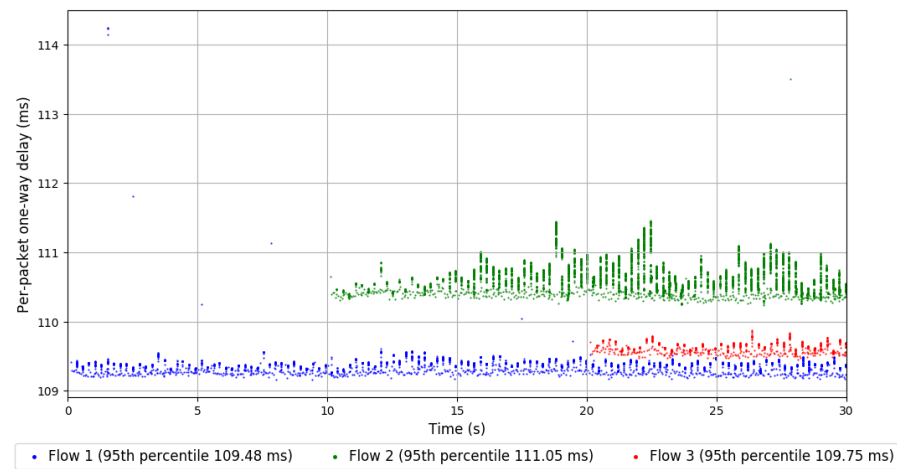
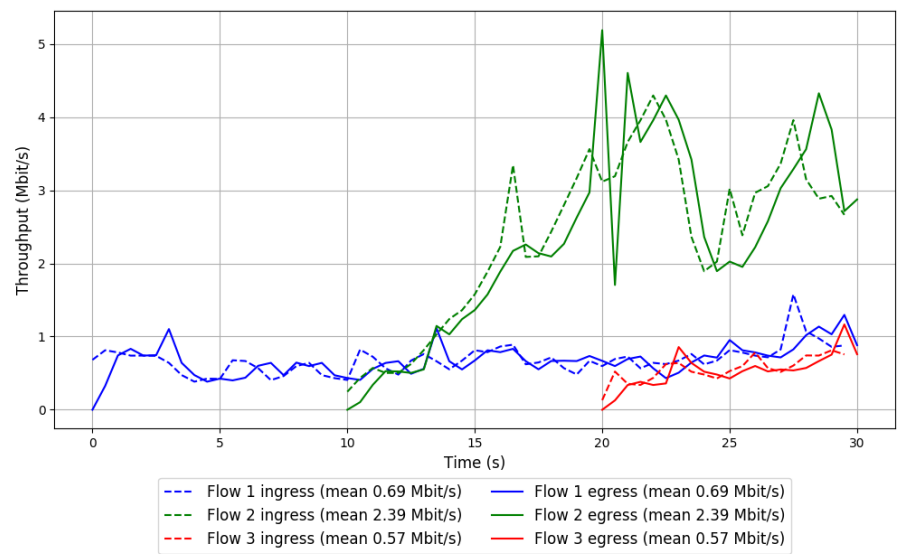


Run 2: Statistics of Sprout

Start at: 2019-03-09 01:17:56
End at: 2019-03-09 01:18:26
Local clock offset: -0.261 ms
Remote clock offset: -0.134 ms

```
# Below is generated by plot.py at 2019-03-09 05:28:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.46 Mbit/s
95th percentile per-packet one-way delay: 110.974 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.69 Mbit/s
95th percentile per-packet one-way delay: 109.484 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 111.048 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 109.747 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

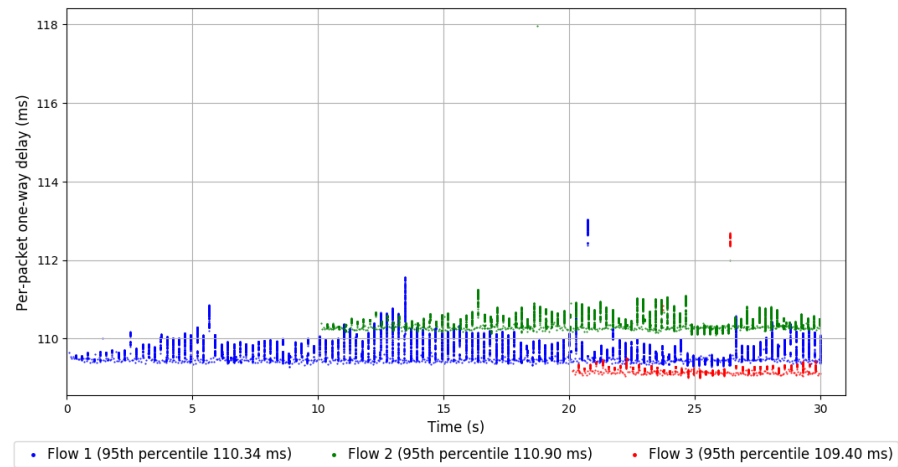
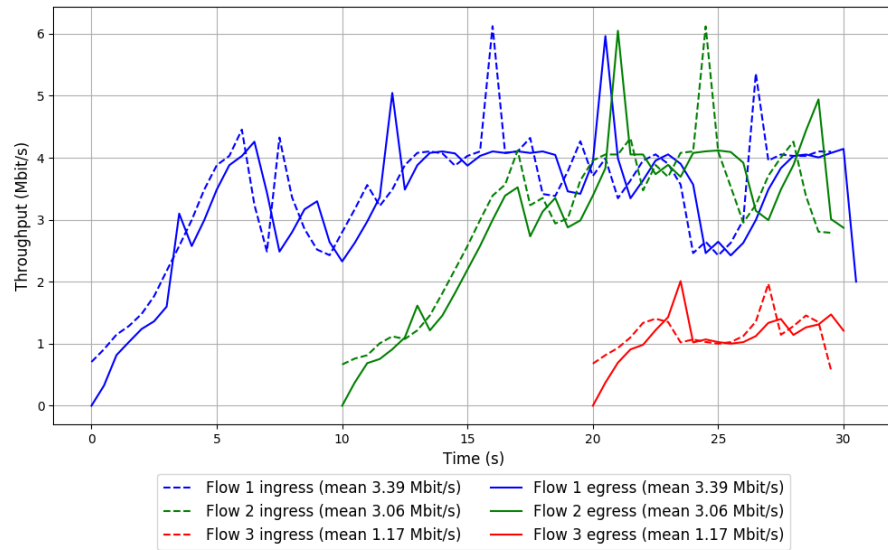


Run 3: Statistics of Sprout

Start at: 2019-03-09 01:55:20
End at: 2019-03-09 01:55:50
Local clock offset: 0.07 ms
Remote clock offset: -0.081 ms

```
# Below is generated by plot.py at 2019-03-09 05:28:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.81 Mbit/s
95th percentile per-packet one-way delay: 110.769 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.39 Mbit/s
95th percentile per-packet one-way delay: 110.342 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.06 Mbit/s
95th percentile per-packet one-way delay: 110.899 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.17 Mbit/s
95th percentile per-packet one-way delay: 109.396 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

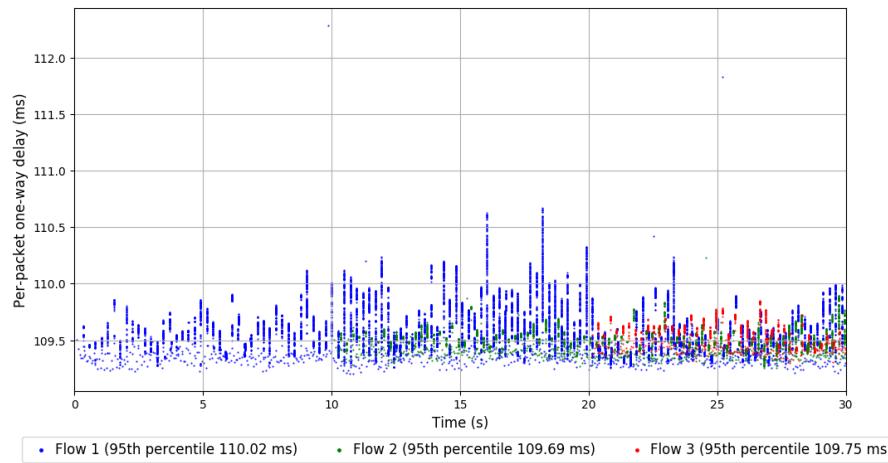
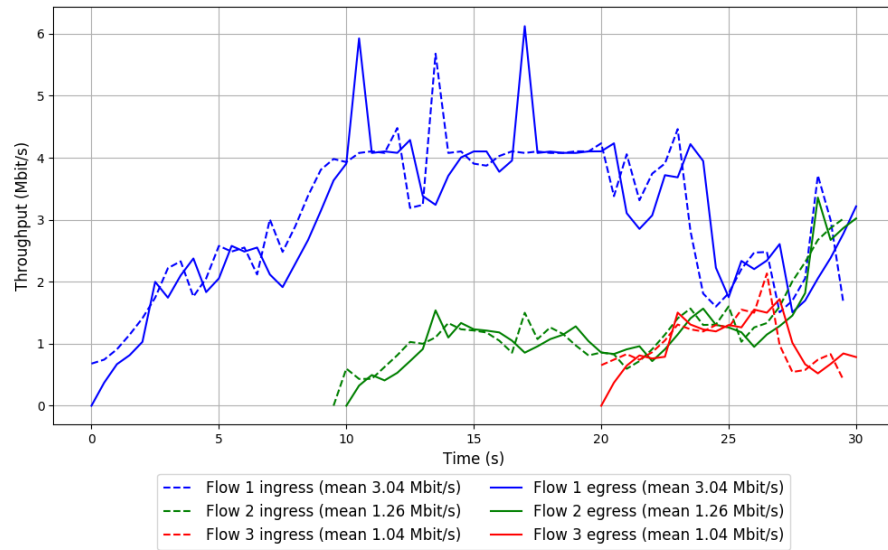


Run 4: Statistics of Sprout

Start at: 2019-03-09 02:33:16
End at: 2019-03-09 02:33:46
Local clock offset: -0.42 ms
Remote clock offset: -0.465 ms

```
# Below is generated by plot.py at 2019-03-09 05:28:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 109.965 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.04 Mbit/s
95th percentile per-packet one-way delay: 110.015 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 109.689 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 109.751 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

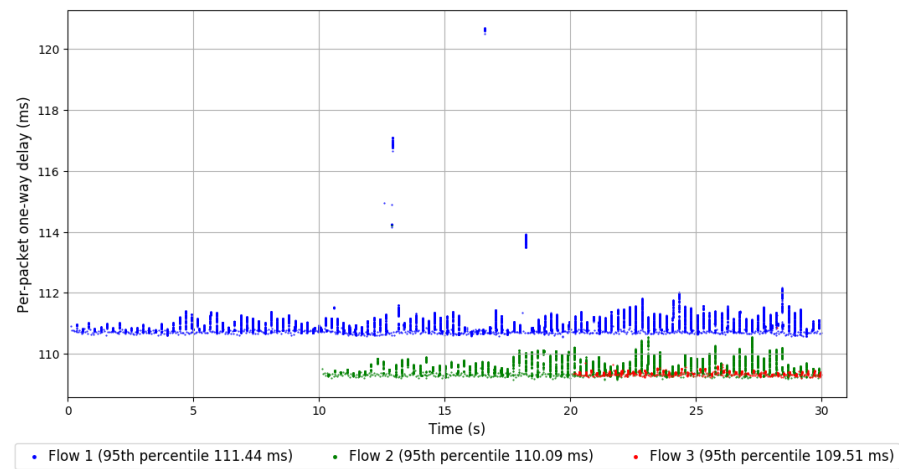
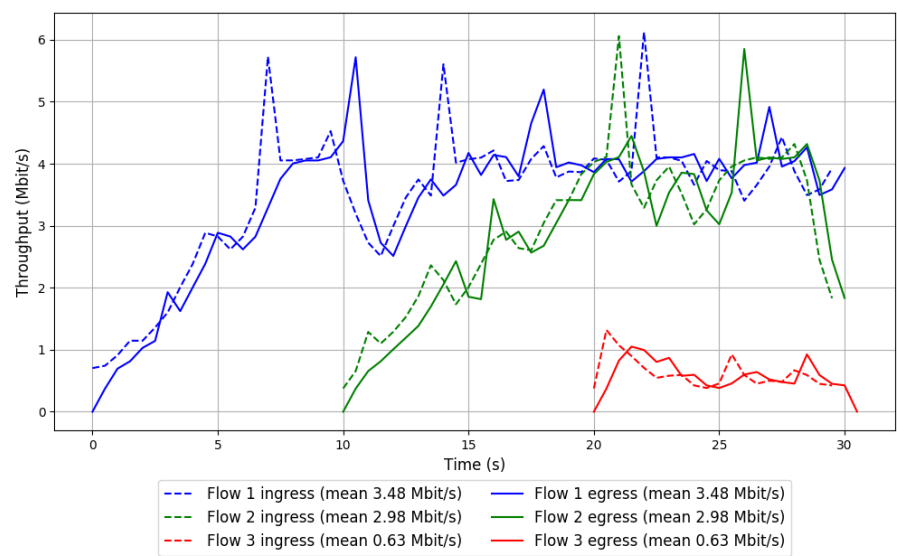


Run 5: Statistics of Sprout

Start at: 2019-03-09 03:10:23
End at: 2019-03-09 03:10:53
Local clock offset: -0.091 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2019-03-09 05:28:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.67 Mbit/s
95th percentile per-packet one-way delay: 111.342 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.48 Mbit/s
95th percentile per-packet one-way delay: 111.438 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.98 Mbit/s
95th percentile per-packet one-way delay: 110.087 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 109.506 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

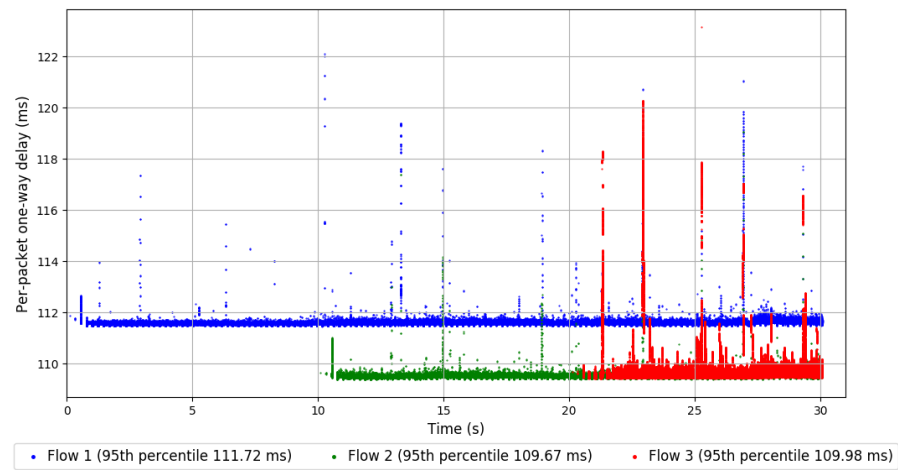
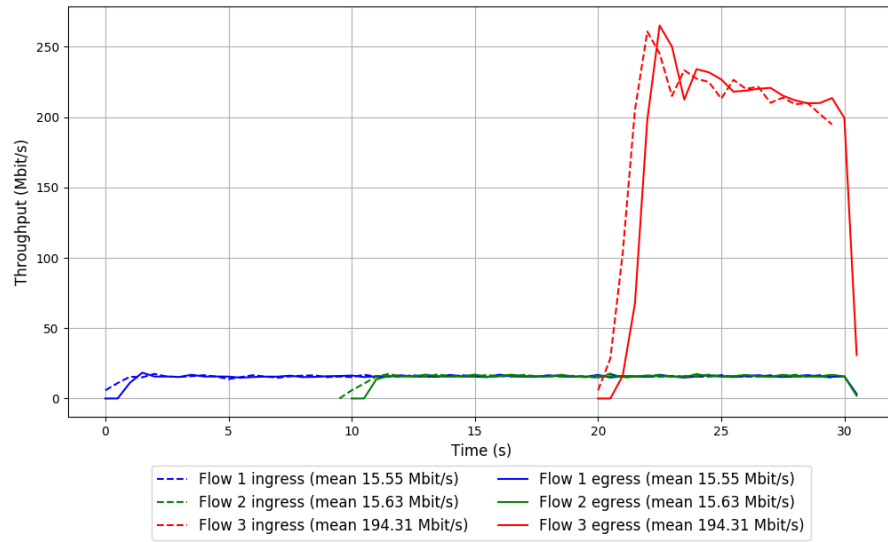


Run 1: Statistics of TaoVA-100x

Start at: 2019-03-09 00:30:14
End at: 2019-03-09 00:30:44
Local clock offset: -0.153 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2019-03-09 05:28:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.57 Mbit/s
95th percentile per-packet one-way delay: 111.623 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.55 Mbit/s
95th percentile per-packet one-way delay: 111.722 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 15.63 Mbit/s
95th percentile per-packet one-way delay: 109.665 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 194.31 Mbit/s
95th percentile per-packet one-way delay: 109.977 ms
Loss rate: 0.00%

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

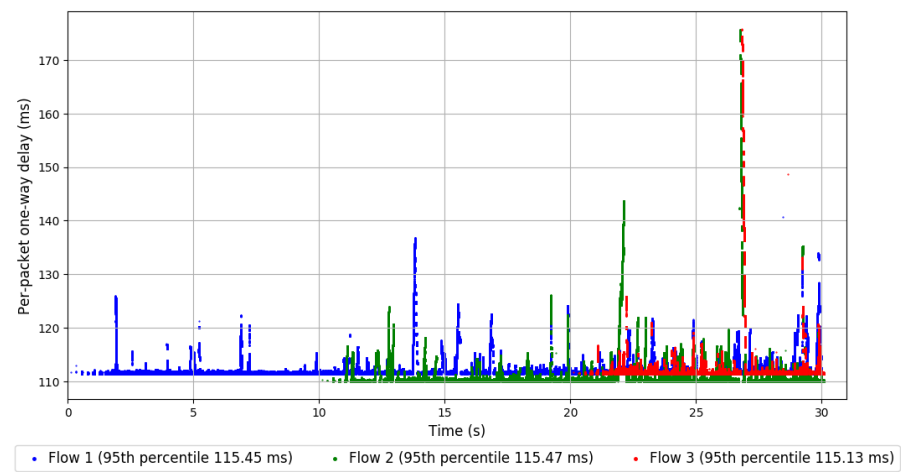
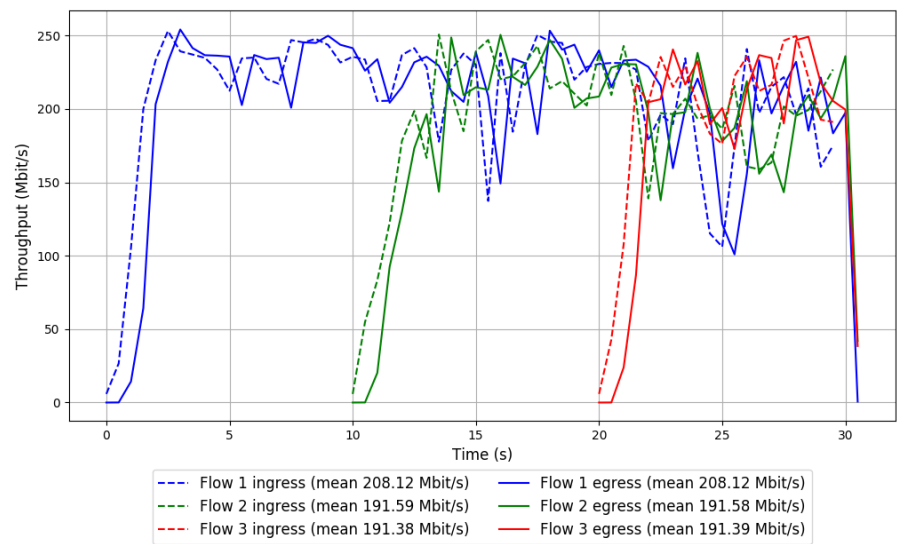


Run 2: Statistics of TaoVA-100x

Start at: 2019-03-09 01:07:12
End at: 2019-03-09 01:07:42
Local clock offset: -0.005 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2019-03-09 05:32:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 398.64 Mbit/s
95th percentile per-packet one-way delay: 115.417 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 208.12 Mbit/s
95th percentile per-packet one-way delay: 115.452 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 191.58 Mbit/s
95th percentile per-packet one-way delay: 115.475 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 191.39 Mbit/s
95th percentile per-packet one-way delay: 115.130 ms
Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-03-09 01:44:29

End at: 2019-03-09 01:44:59

Local clock offset: -0.156 ms

Remote clock offset: 0.286 ms

Below is generated by plot.py at 2019-03-09 05:32:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 385.87 Mbit/s

95th percentile per-packet one-way delay: 112.774 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 202.92 Mbit/s

95th percentile per-packet one-way delay: 112.354 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 199.17 Mbit/s

95th percentile per-packet one-way delay: 113.924 ms

Loss rate: 0.00%

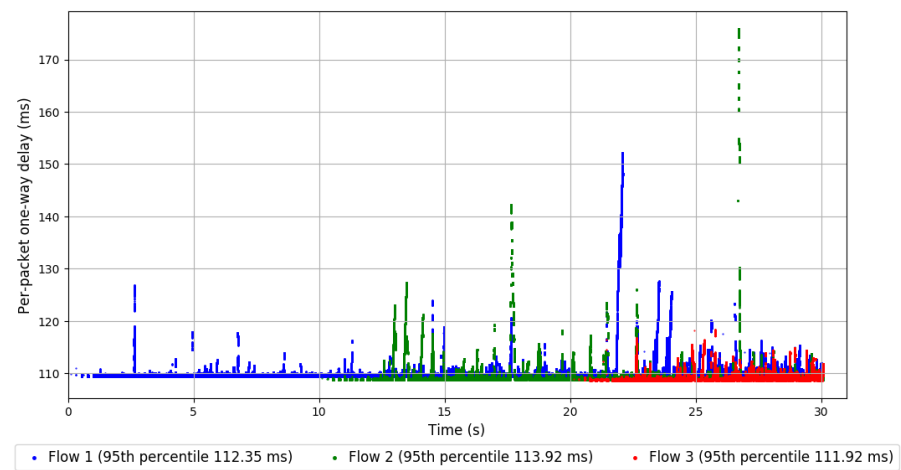
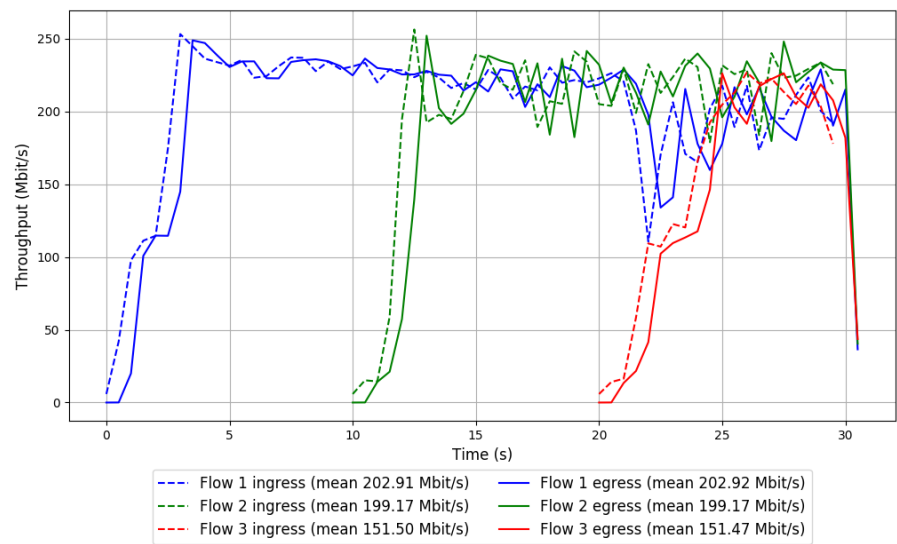
-- Flow 3:

Average throughput: 151.47 Mbit/s

95th percentile per-packet one-way delay: 111.916 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-03-09 02:22:31

End at: 2019-03-09 02:23:01

Local clock offset: -0.335 ms

Remote clock offset: 0.258 ms

Below is generated by plot.py at 2019-03-09 05:32:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 402.84 Mbit/s

95th percentile per-packet one-way delay: 112.331 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 211.14 Mbit/s

95th percentile per-packet one-way delay: 110.991 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 199.32 Mbit/s

95th percentile per-packet one-way delay: 111.444 ms

Loss rate: 0.00%

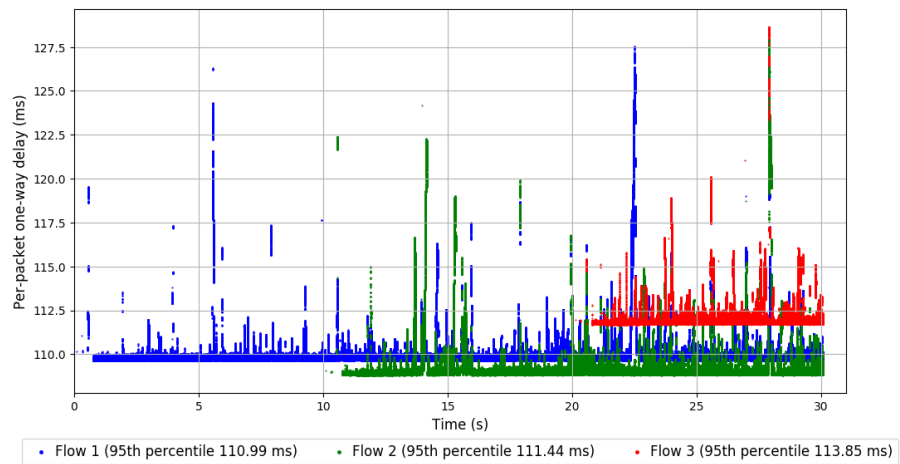
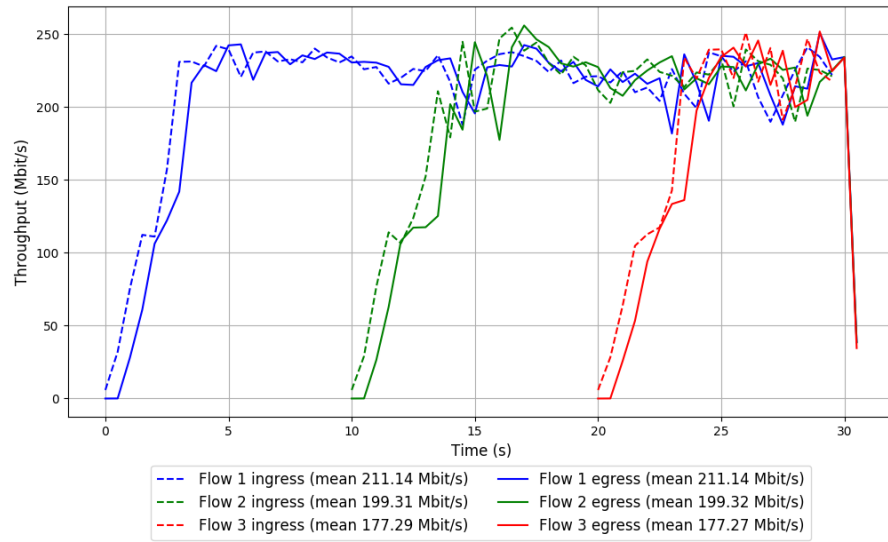
-- Flow 3:

Average throughput: 177.27 Mbit/s

95th percentile per-packet one-way delay: 113.846 ms

Loss rate: 0.03%

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

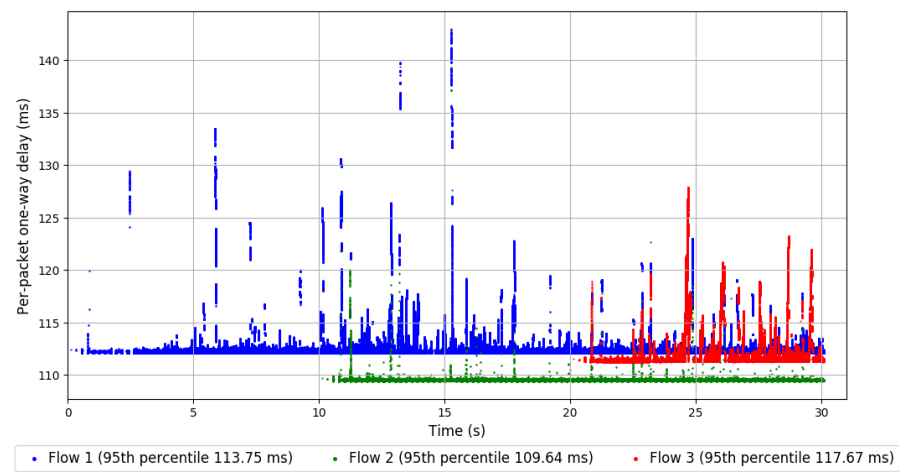
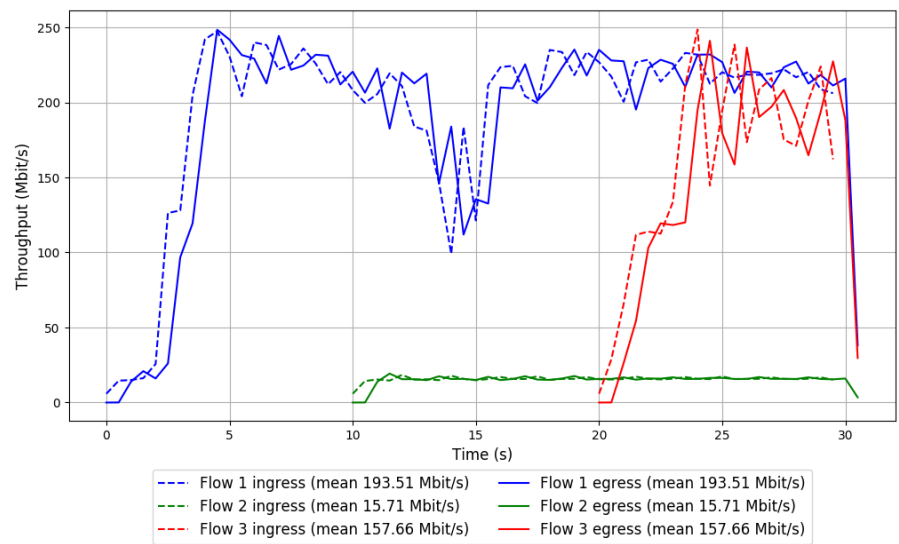


Run 5: Statistics of TaoVA-100x

Start at: 2019-03-09 02:59:56
End at: 2019-03-09 03:00:26
Local clock offset: -0.125 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2019-03-09 05:32:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 256.36 Mbit/s
95th percentile per-packet one-way delay: 114.487 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 193.51 Mbit/s
95th percentile per-packet one-way delay: 113.752 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 15.71 Mbit/s
95th percentile per-packet one-way delay: 109.640 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 157.66 Mbit/s
95th percentile per-packet one-way delay: 117.669 ms
Loss rate: 0.01%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-03-09 00:22:52

End at: 2019-03-09 00:23:22

Local clock offset: -0.094 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2019-03-09 05:33:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 690.45 Mbit/s

95th percentile per-packet one-way delay: 119.230 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 374.01 Mbit/s

95th percentile per-packet one-way delay: 115.261 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 360.14 Mbit/s

95th percentile per-packet one-way delay: 126.036 ms

Loss rate: 0.04%

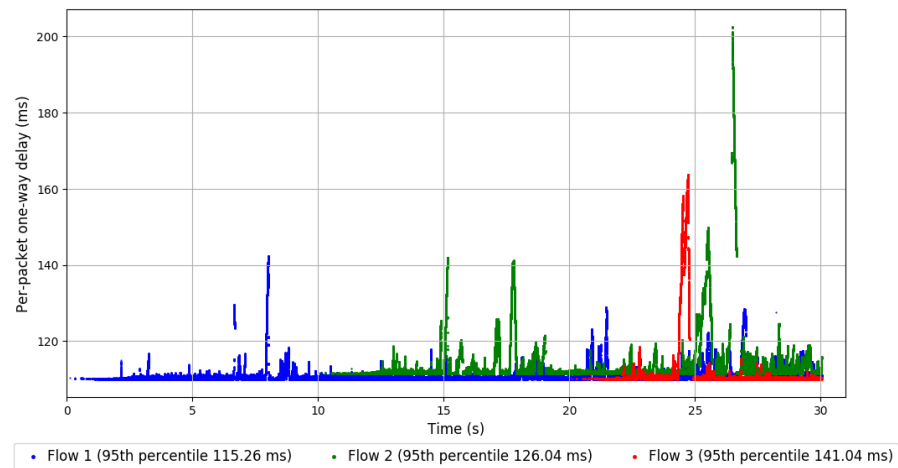
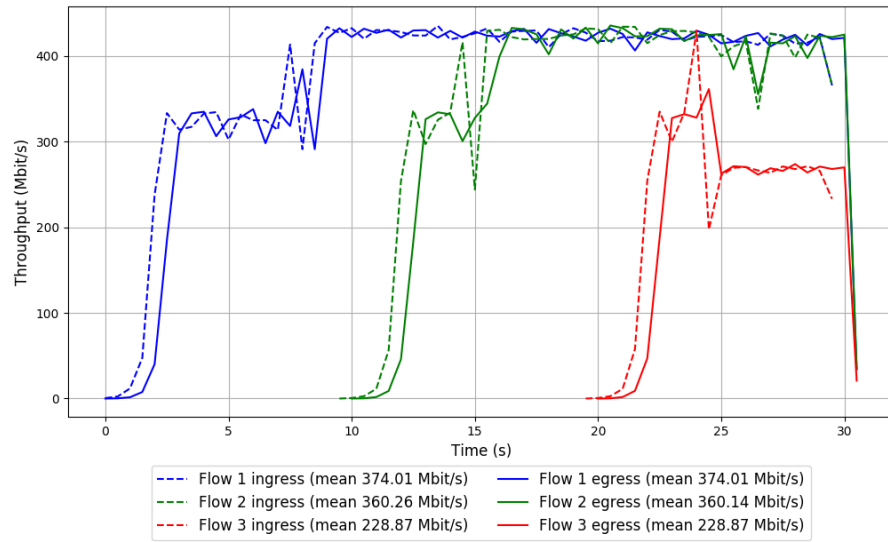
-- Flow 3:

Average throughput: 228.87 Mbit/s

95th percentile per-packet one-way delay: 141.036 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link

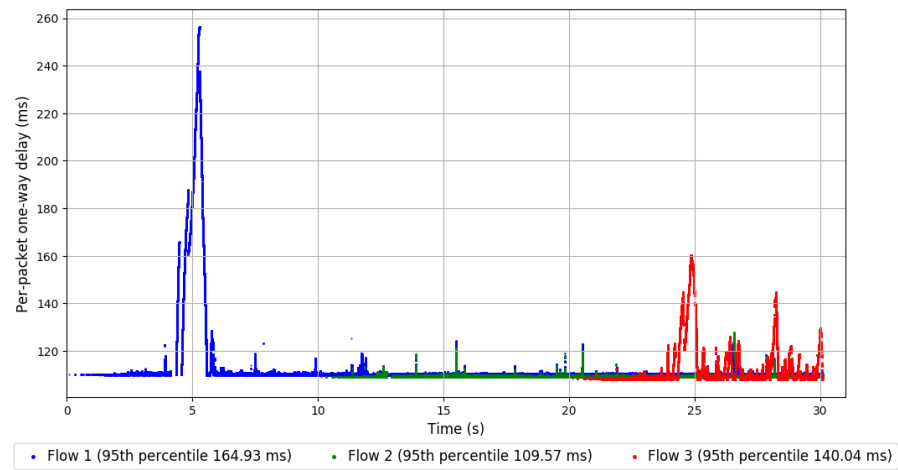
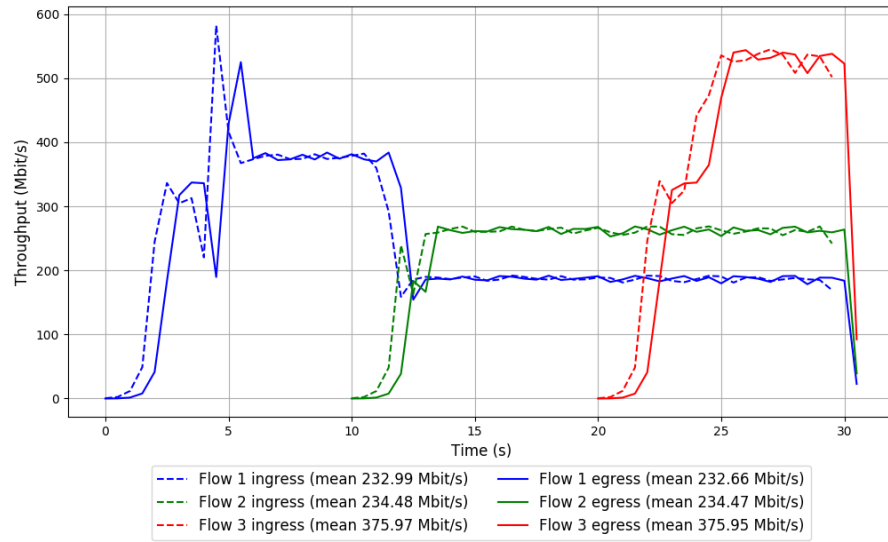


Run 2: Statistics of TCP Vegas

Start at: 2019-03-09 00:59:46
End at: 2019-03-09 01:00:16
Local clock offset: 0.052 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2019-03-09 05:33:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 513.68 Mbit/s
95th percentile per-packet one-way delay: 134.275 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 232.66 Mbit/s
95th percentile per-packet one-way delay: 164.932 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 234.47 Mbit/s
95th percentile per-packet one-way delay: 109.571 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 375.95 Mbit/s
95th percentile per-packet one-way delay: 140.042 ms
Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-03-09 01:37:02

End at: 2019-03-09 01:37:32

Local clock offset: -0.237 ms

Remote clock offset: -0.48 ms

Below is generated by plot.py at 2019-03-09 05:39:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 660.63 Mbit/s

95th percentile per-packet one-way delay: 142.372 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 337.14 Mbit/s

95th percentile per-packet one-way delay: 113.156 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 332.69 Mbit/s

95th percentile per-packet one-way delay: 159.684 ms

Loss rate: 0.00%

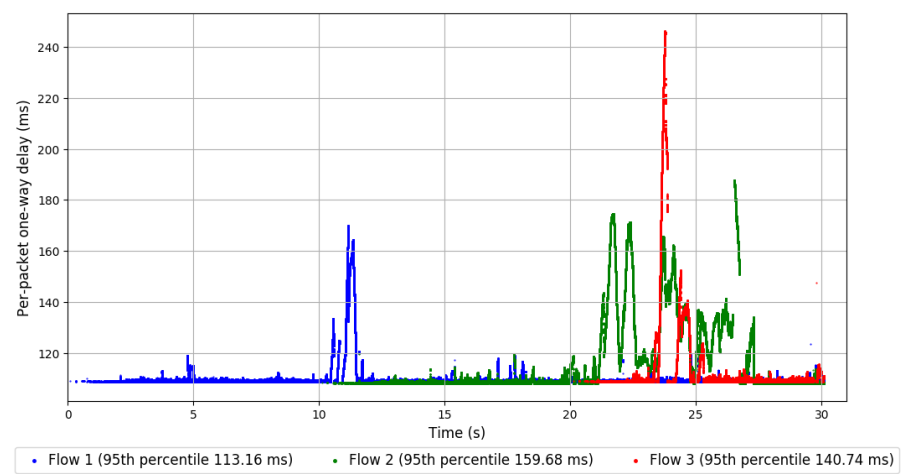
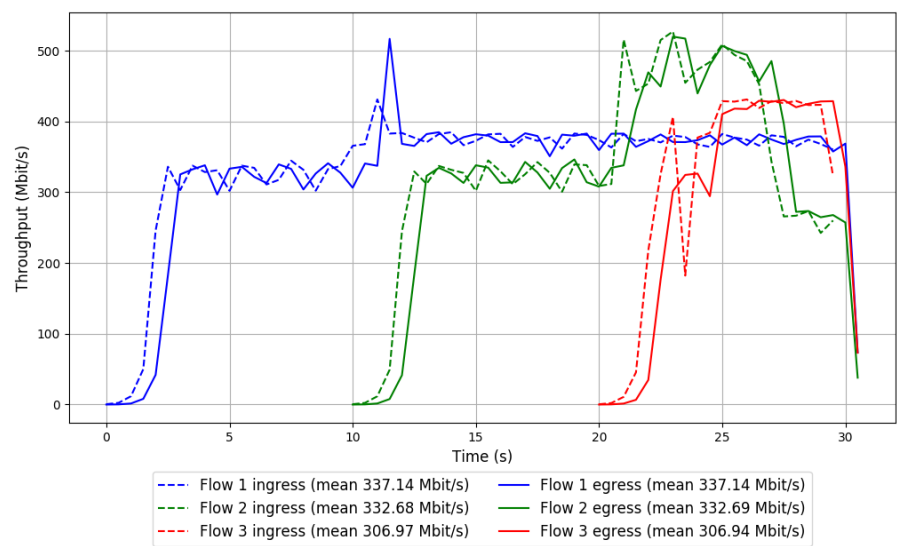
-- Flow 3:

Average throughput: 306.94 Mbit/s

95th percentile per-packet one-way delay: 140.741 ms

Loss rate: 0.02%

Run 3: Report of TCP Vegas — Data Link

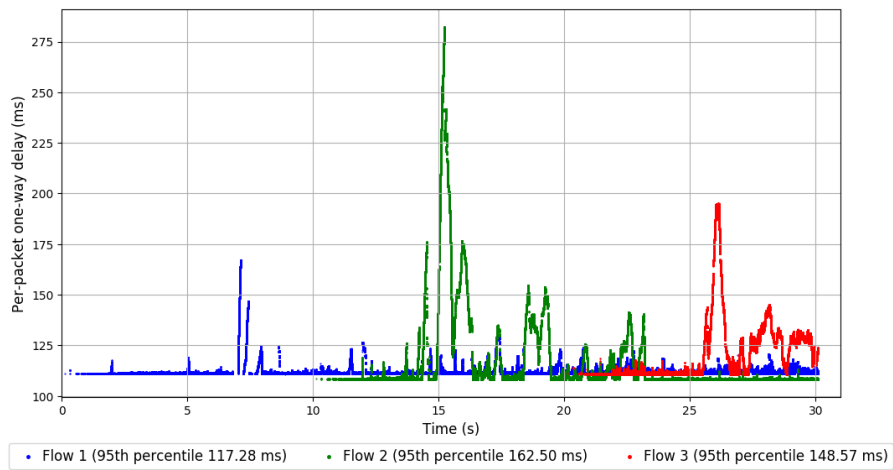
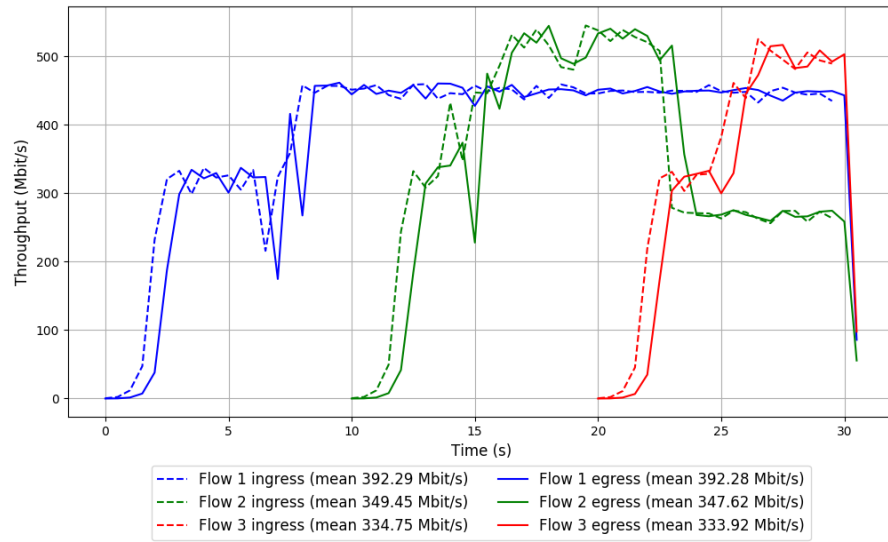


Run 4: Statistics of TCP Vegas

Start at: 2019-03-09 02:14:40
End at: 2019-03-09 02:15:10
Local clock offset: -0.218 ms
Remote clock offset: -0.455 ms

Below is generated by plot.py at 2019-03-09 05:41:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 734.81 Mbit/s
95th percentile per-packet one-way delay: 140.483 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 392.28 Mbit/s
95th percentile per-packet one-way delay: 117.281 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 347.62 Mbit/s
95th percentile per-packet one-way delay: 162.503 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 333.92 Mbit/s
95th percentile per-packet one-way delay: 148.572 ms
Loss rate: 0.27%

Run 4: Report of TCP Vegas — Data Link

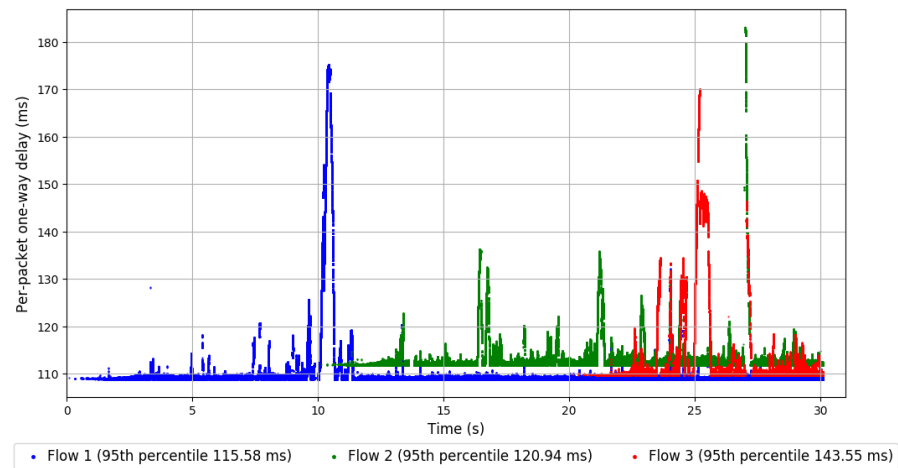
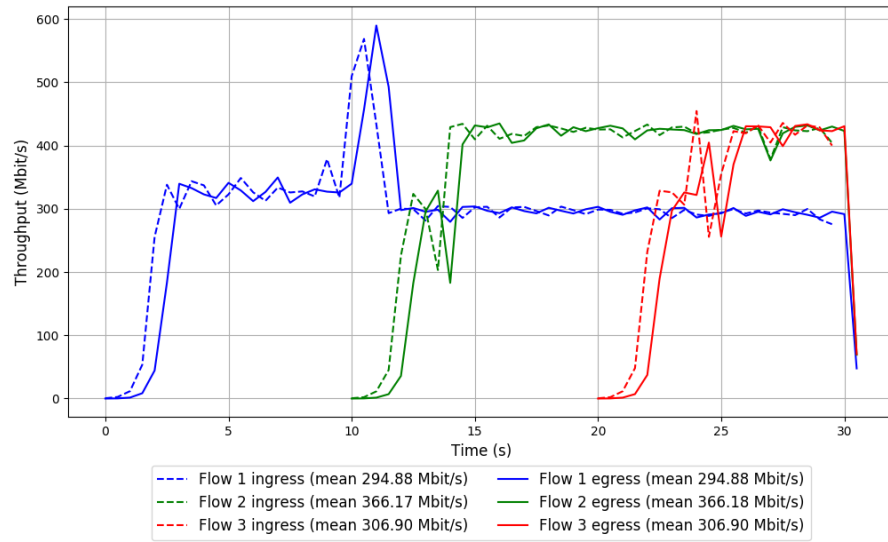


Run 5: Statistics of TCP Vegas

Start at: 2019-03-09 02:52:23
End at: 2019-03-09 02:52:53
Local clock offset: -0.627 ms
Remote clock offset: -0.085 ms

Below is generated by plot.py at 2019-03-09 05:41:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 640.67 Mbit/s
95th percentile per-packet one-way delay: 123.662 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 294.88 Mbit/s
95th percentile per-packet one-way delay: 115.580 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 366.18 Mbit/s
95th percentile per-packet one-way delay: 120.942 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 306.90 Mbit/s
95th percentile per-packet one-way delay: 143.550 ms
Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link

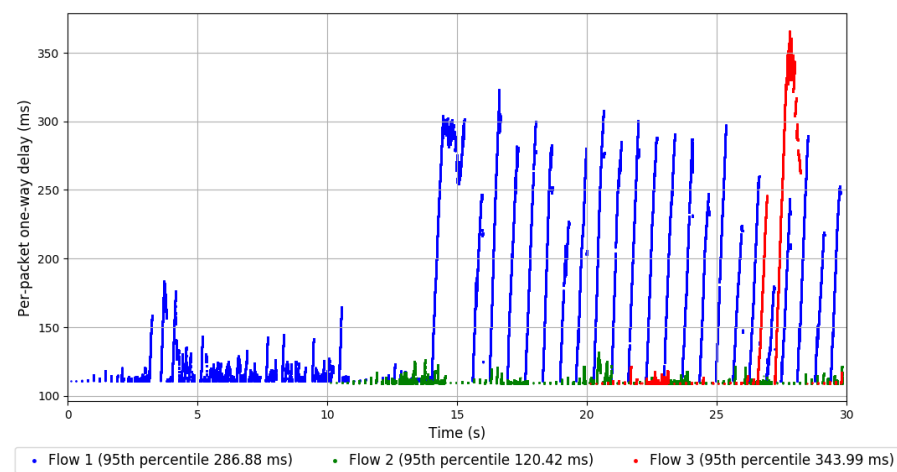
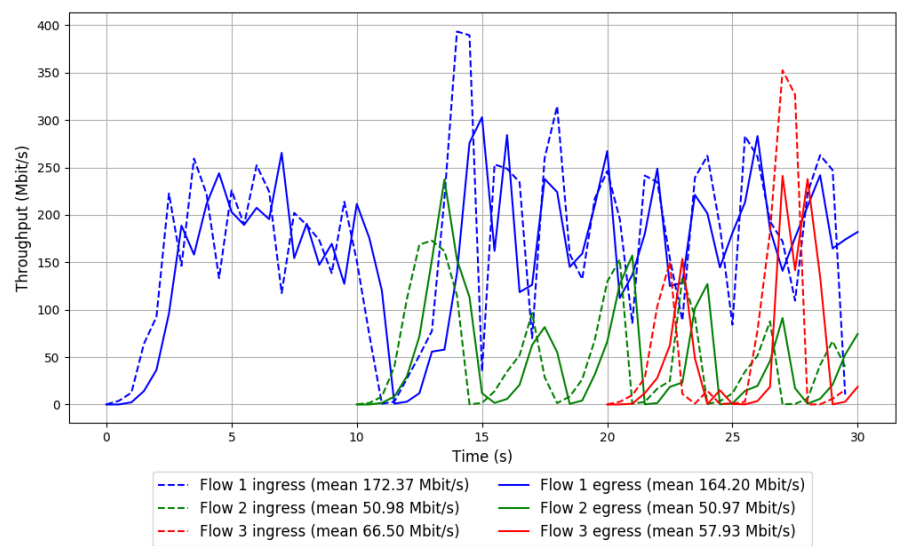


Run 1: Statistics of Verus

Start at: 2019-03-09 00:38:48
End at: 2019-03-09 00:39:18
Local clock offset: -0.086 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2019-03-09 05:41:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 216.40 Mbit/s
95th percentile per-packet one-way delay: 289.806 ms
Loss rate: 4.47%
-- Flow 1:
Average throughput: 164.20 Mbit/s
95th percentile per-packet one-way delay: 286.879 ms
Loss rate: 4.29%
-- Flow 2:
Average throughput: 50.97 Mbit/s
95th percentile per-packet one-way delay: 120.415 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 57.93 Mbit/s
95th percentile per-packet one-way delay: 343.985 ms
Loss rate: 12.82%

Run 1: Report of Verus — Data Link

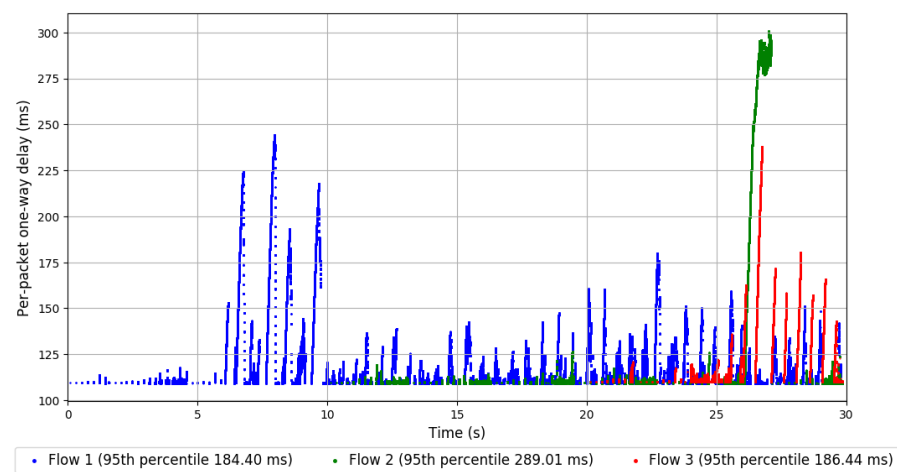
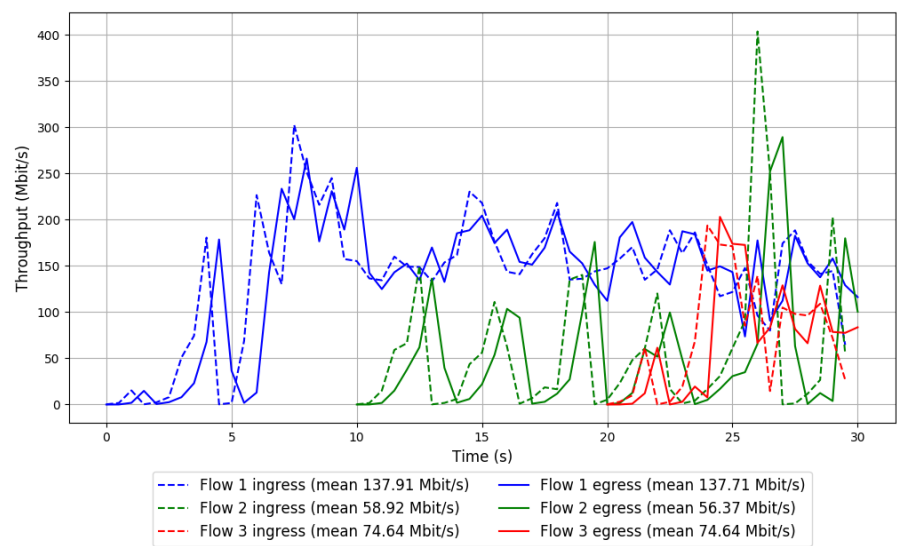


Run 2: Statistics of Verus

Start at: 2019-03-09 01:16:17
End at: 2019-03-09 01:16:47
Local clock offset: 0.019 ms
Remote clock offset: -0.129 ms

Below is generated by plot.py at 2019-03-09 05:41:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 199.40 Mbit/s
95th percentile per-packet one-way delay: 221.859 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 137.71 Mbit/s
95th percentile per-packet one-way delay: 184.396 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 56.37 Mbit/s
95th percentile per-packet one-way delay: 289.008 ms
Loss rate: 4.33%
-- Flow 3:
Average throughput: 74.64 Mbit/s
95th percentile per-packet one-way delay: 186.440 ms
Loss rate: 0.01%

Run 2: Report of Verus — Data Link

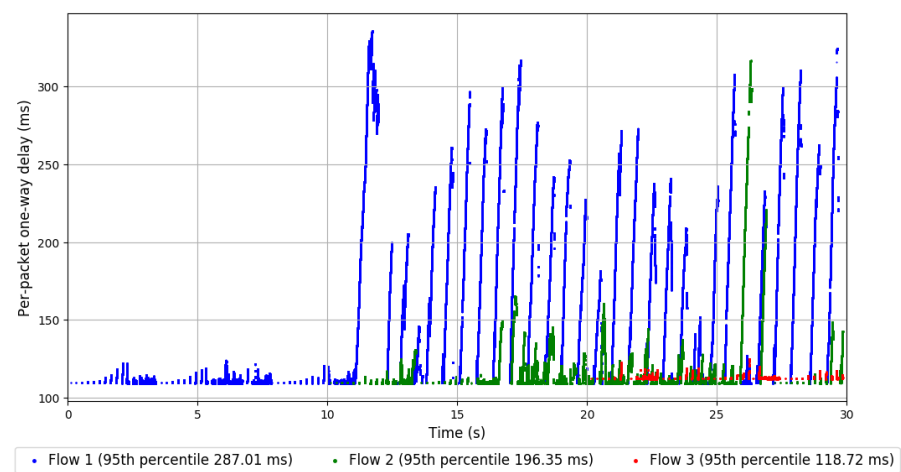
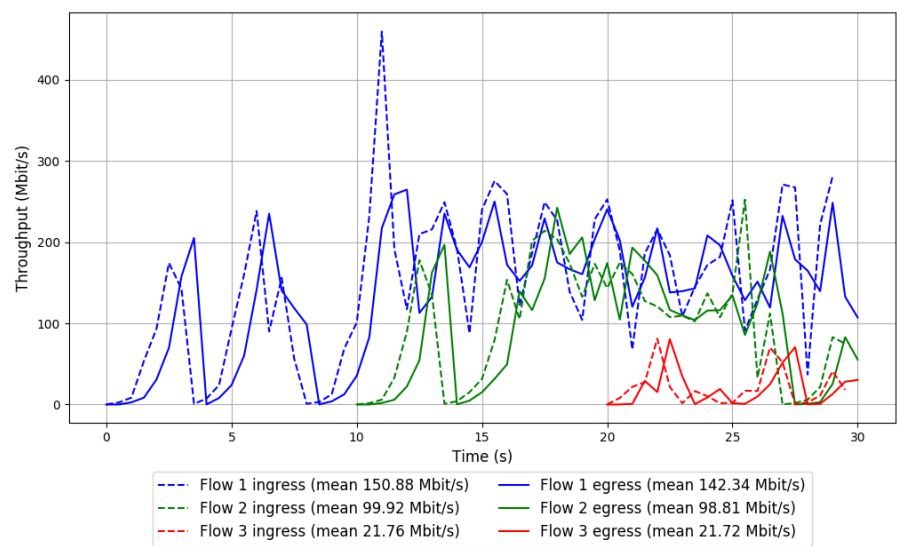


Run 3: Statistics of Verus

Start at: 2019-03-09 01:53:39
End at: 2019-03-09 01:54:09
Local clock offset: -0.262 ms
Remote clock offset: -0.143 ms

Below is generated by plot.py at 2019-03-09 05:41:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 214.15 Mbit/s
95th percentile per-packet one-way delay: 280.476 ms
Loss rate: 3.89%
-- Flow 1:
Average throughput: 142.34 Mbit/s
95th percentile per-packet one-way delay: 287.007 ms
Loss rate: 5.30%
-- Flow 2:
Average throughput: 98.81 Mbit/s
95th percentile per-packet one-way delay: 196.355 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 21.72 Mbit/s
95th percentile per-packet one-way delay: 118.715 ms
Loss rate: 0.18%

Run 3: Report of Verus — Data Link

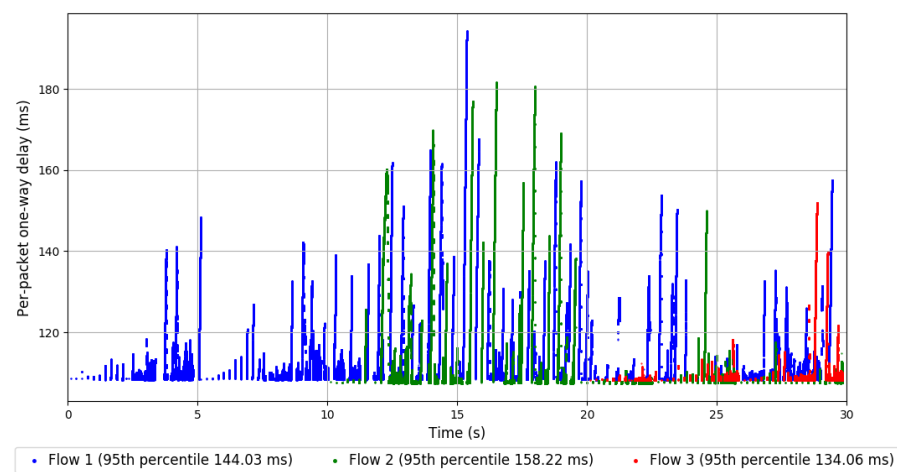
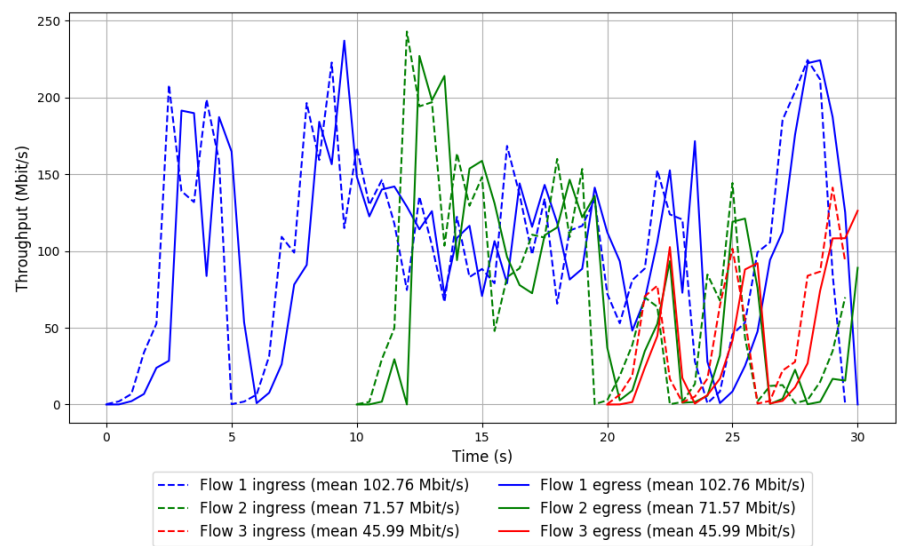


Run 4: Statistics of Verus

Start at: 2019-03-09 02:31:40
End at: 2019-03-09 02:32:10
Local clock offset: 0.612 ms
Remote clock offset: -0.11 ms

Below is generated by plot.py at 2019-03-09 05:41:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 165.06 Mbit/s
95th percentile per-packet one-way delay: 148.947 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 102.76 Mbit/s
95th percentile per-packet one-way delay: 144.035 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 71.57 Mbit/s
95th percentile per-packet one-way delay: 158.223 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 45.99 Mbit/s
95th percentile per-packet one-way delay: 134.058 ms
Loss rate: 0.00%

Run 4: Report of Verus — Data Link

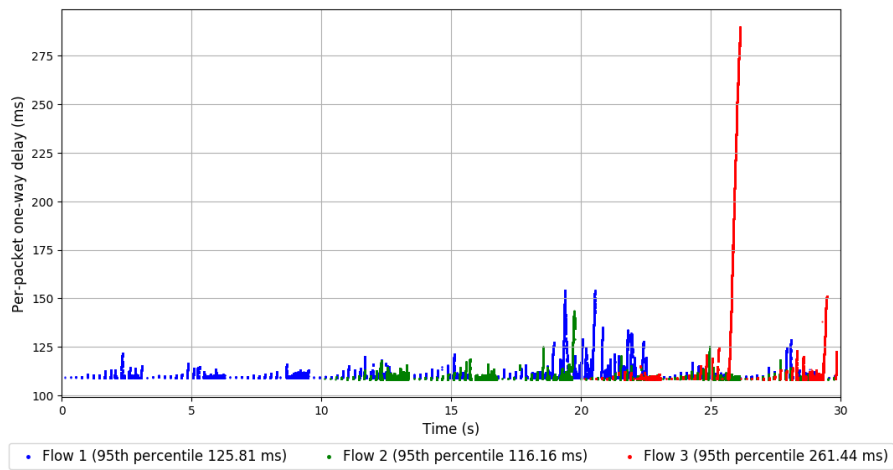
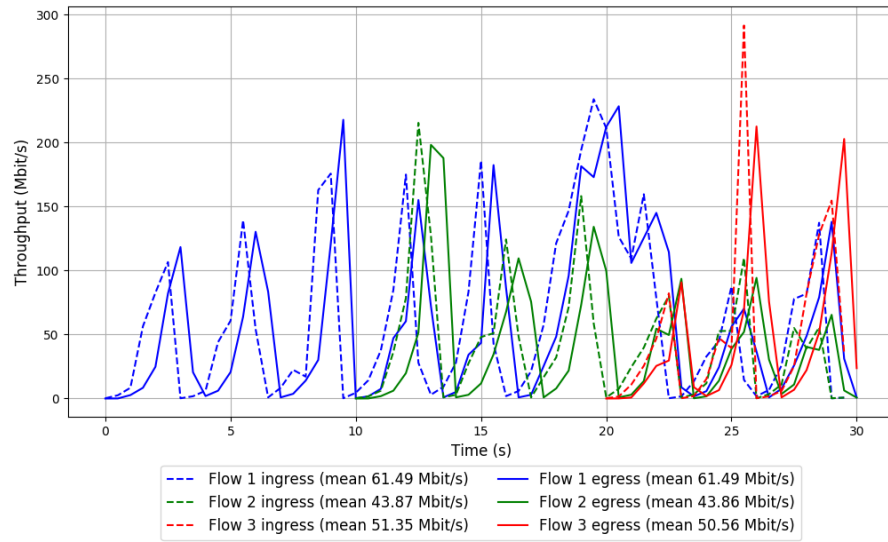


Run 5: Statistics of Verus

Start at: 2019-03-09 03:08:54
End at: 2019-03-09 03:09:24
Local clock offset: -0.141 ms
Remote clock offset: -0.079 ms

Below is generated by plot.py at 2019-03-09 05:41:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 106.74 Mbit/s
95th percentile per-packet one-way delay: 139.487 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 61.49 Mbit/s
95th percentile per-packet one-way delay: 125.809 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.86 Mbit/s
95th percentile per-packet one-way delay: 116.160 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 50.56 Mbit/s
95th percentile per-packet one-way delay: 261.440 ms
Loss rate: 1.49%

Run 5: Report of Verus — Data Link

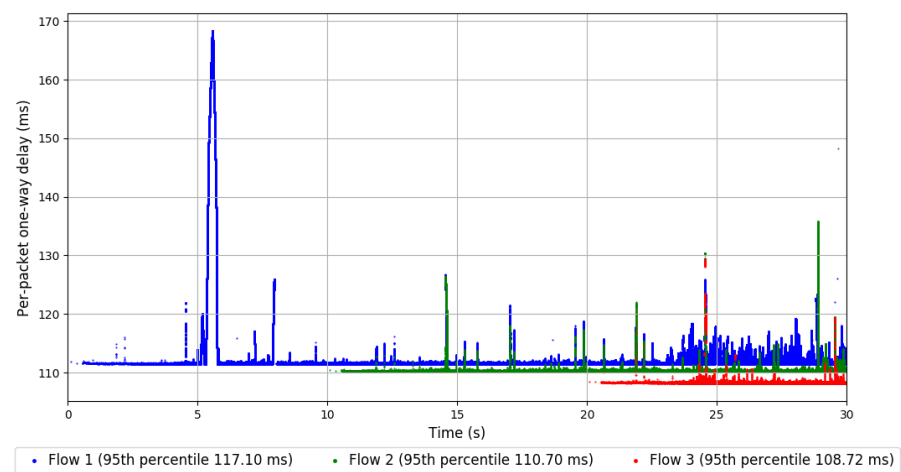
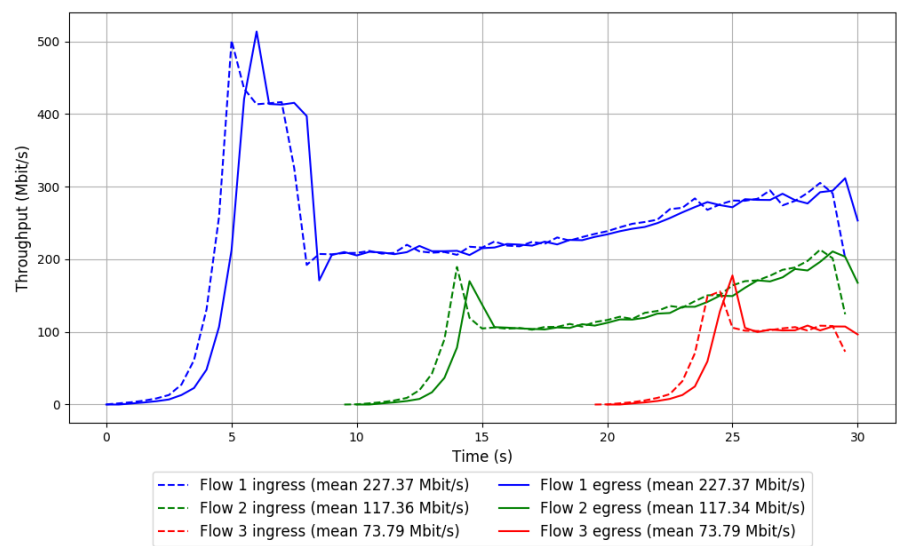


Run 1: Statistics of PCC-Vivace

Start at: 2019-03-09 00:26:54
End at: 2019-03-09 00:27:24
Local clock offset: -0.153 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2019-03-09 05:42:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 329.91 Mbit/s
95th percentile per-packet one-way delay: 115.022 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 227.37 Mbit/s
95th percentile per-packet one-way delay: 117.101 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 117.34 Mbit/s
95th percentile per-packet one-way delay: 110.696 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 73.79 Mbit/s
95th percentile per-packet one-way delay: 108.725 ms
Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-03-09 01:03:40

End at: 2019-03-09 01:04:10

Local clock offset: -0.079 ms

Remote clock offset: -0.12 ms

Below is generated by plot.py at 2019-03-09 05:44:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 484.90 Mbit/s

95th percentile per-packet one-way delay: 117.638 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 309.38 Mbit/s

95th percentile per-packet one-way delay: 120.339 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 197.85 Mbit/s

95th percentile per-packet one-way delay: 111.367 ms

Loss rate: 0.00%

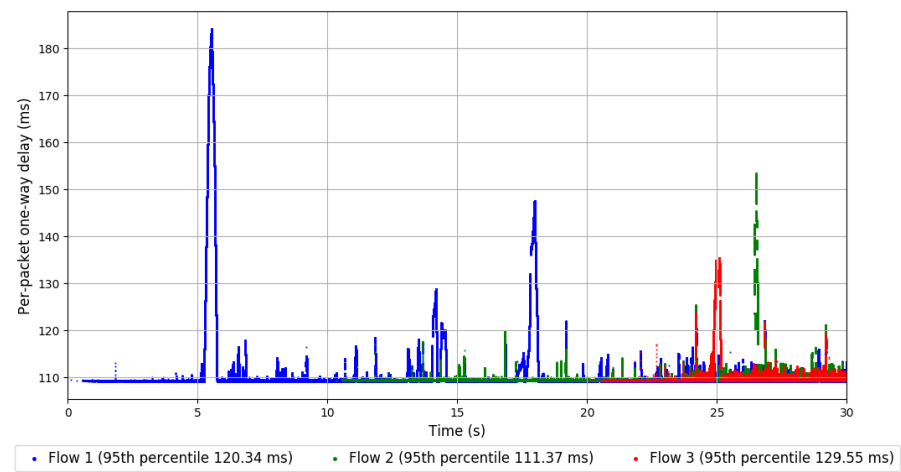
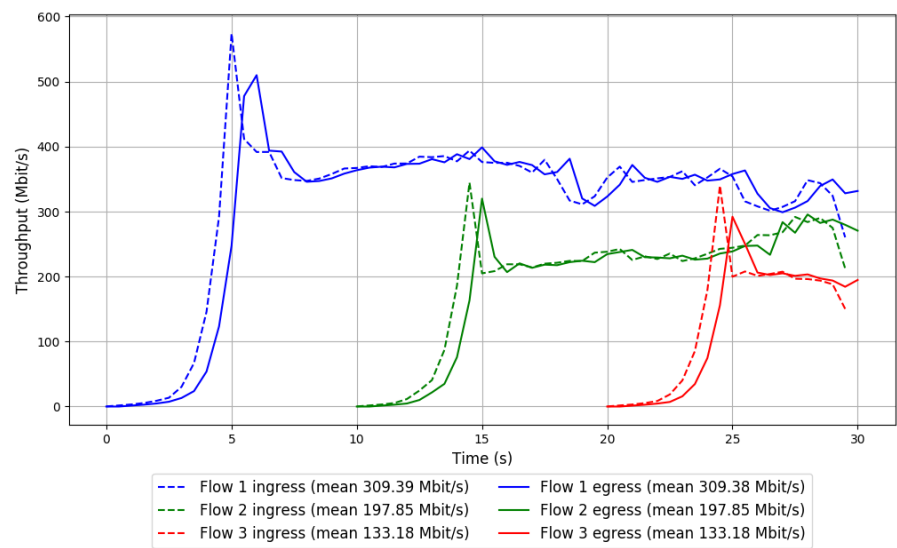
-- Flow 3:

Average throughput: 133.18 Mbit/s

95th percentile per-packet one-way delay: 129.550 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-03-09 01:41:00

End at: 2019-03-09 01:41:30

Local clock offset: -0.324 ms

Remote clock offset: 0.284 ms

Below is generated by plot.py at 2019-03-09 05:44:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 441.43 Mbit/s

95th percentile per-packet one-way delay: 145.233 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 275.68 Mbit/s

95th percentile per-packet one-way delay: 141.670 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 178.16 Mbit/s

95th percentile per-packet one-way delay: 116.706 ms

Loss rate: 0.00%

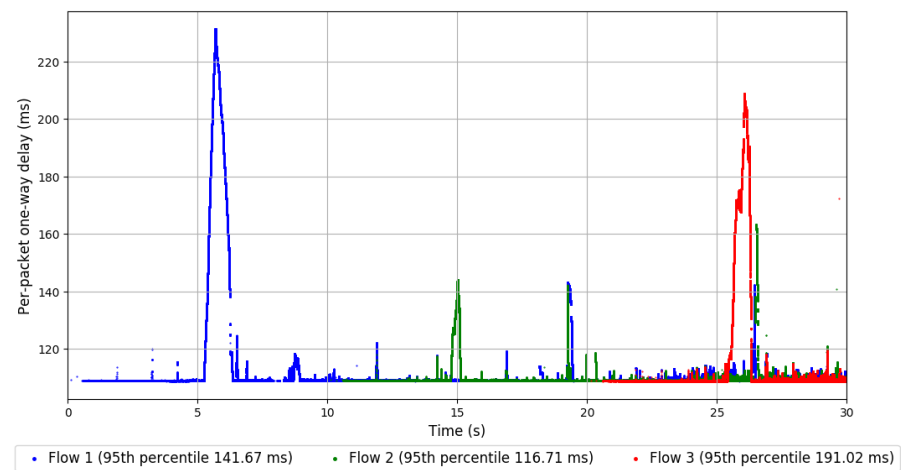
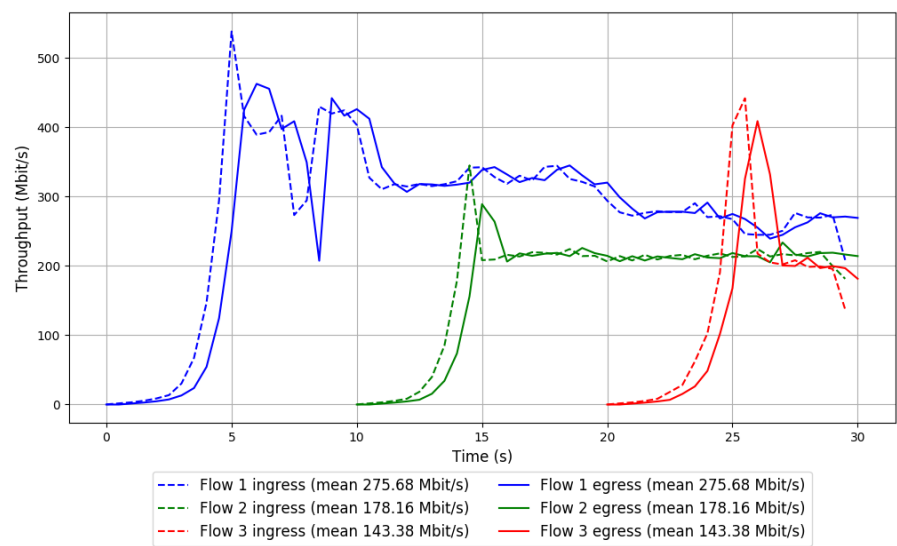
-- Flow 3:

Average throughput: 143.38 Mbit/s

95th percentile per-packet one-way delay: 191.016 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-03-09 02:18:43

End at: 2019-03-09 02:19:13

Local clock offset: 0.05 ms

Remote clock offset: 0.244 ms

Below is generated by plot.py at 2019-03-09 05:44:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 462.10 Mbit/s

95th percentile per-packet one-way delay: 217.369 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 300.85 Mbit/s

95th percentile per-packet one-way delay: 244.016 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 174.64 Mbit/s

95th percentile per-packet one-way delay: 113.492 ms

Loss rate: 0.00%

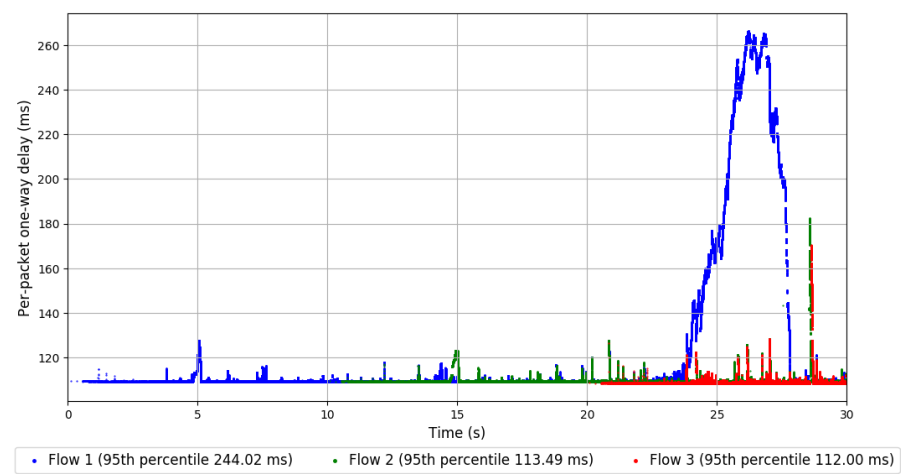
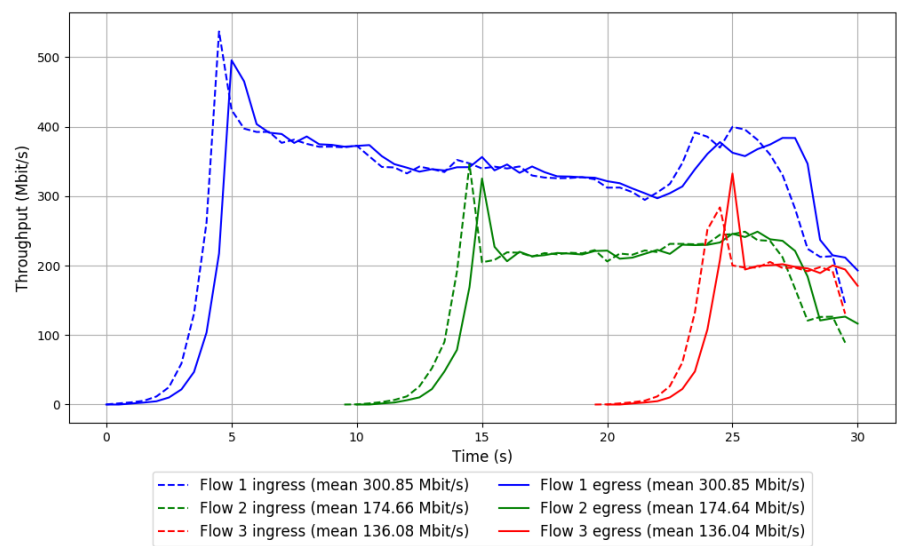
-- Flow 3:

Average throughput: 136.04 Mbit/s

95th percentile per-packet one-way delay: 112.000 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link

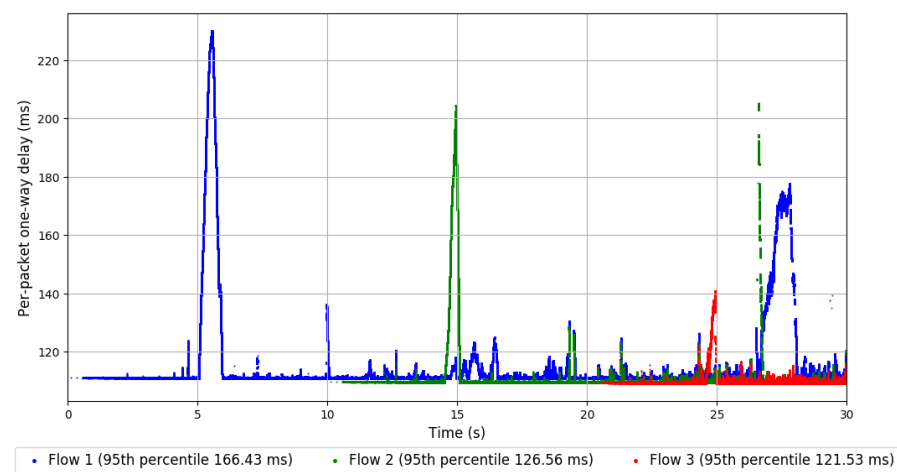
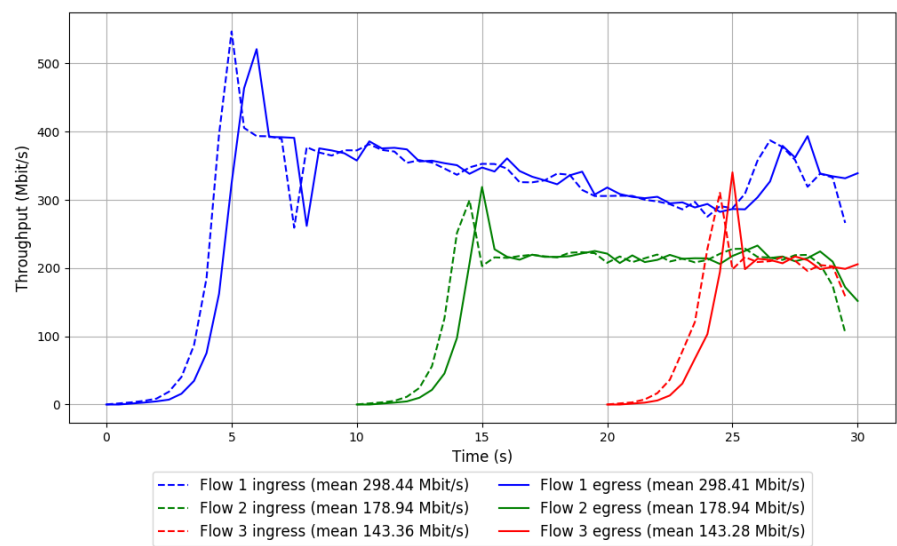


Run 5: Statistics of PCC-Vivace

Start at: 2019-03-09 02:56:22
End at: 2019-03-09 02:56:52
Local clock offset: -0.224 ms
Remote clock offset: -0.057 ms

Below is generated by plot.py at 2019-03-09 05:44:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 464.62 Mbit/s
95th percentile per-packet one-way delay: 149.954 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 298.41 Mbit/s
95th percentile per-packet one-way delay: 166.431 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 178.94 Mbit/s
95th percentile per-packet one-way delay: 126.555 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 143.28 Mbit/s
95th percentile per-packet one-way delay: 121.526 ms
Loss rate: 0.05%

Run 5: Report of PCC-Vivace — Data Link

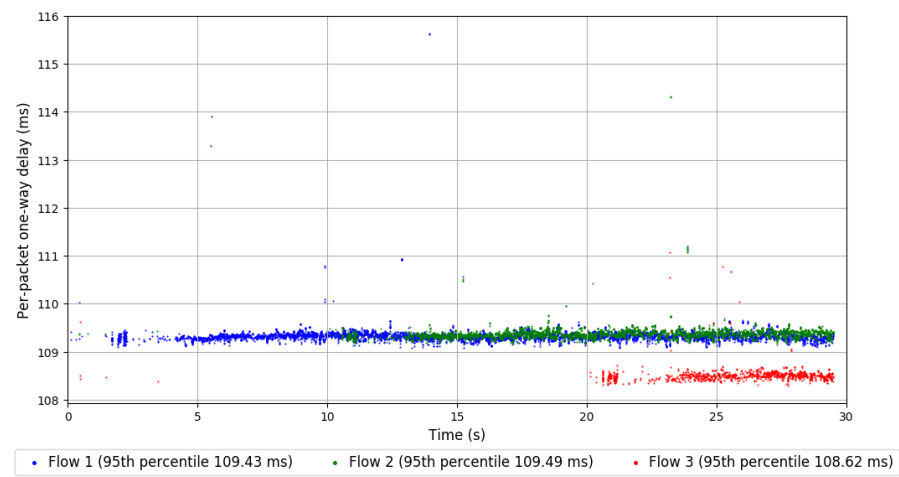
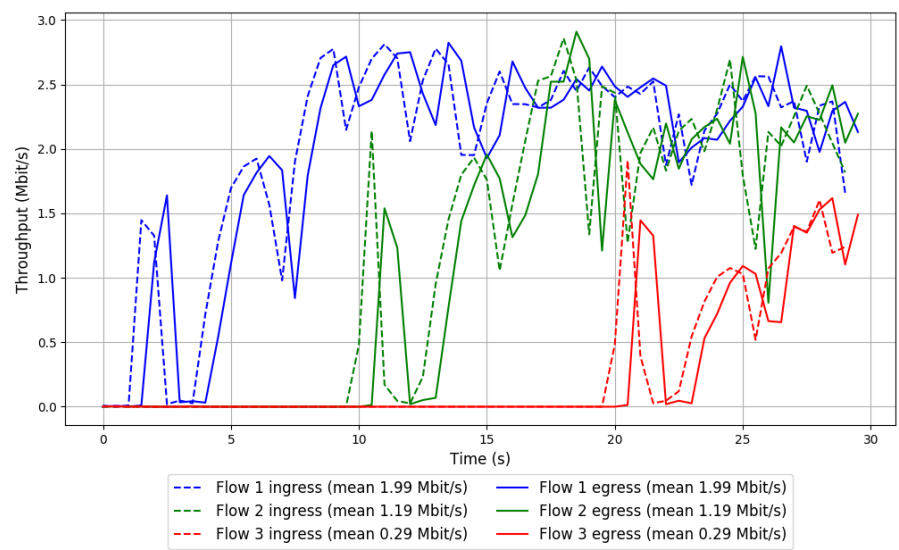


Run 1: Statistics of WebRTC media

Start at: 2019-03-09 00:31:40
End at: 2019-03-09 00:32:10
Local clock offset: -0.141 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2019-03-09 05:44:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.46 Mbit/s
95th percentile per-packet one-way delay: 109.461 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 109.427 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.19 Mbit/s
95th percentile per-packet one-way delay: 109.493 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 108.624 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

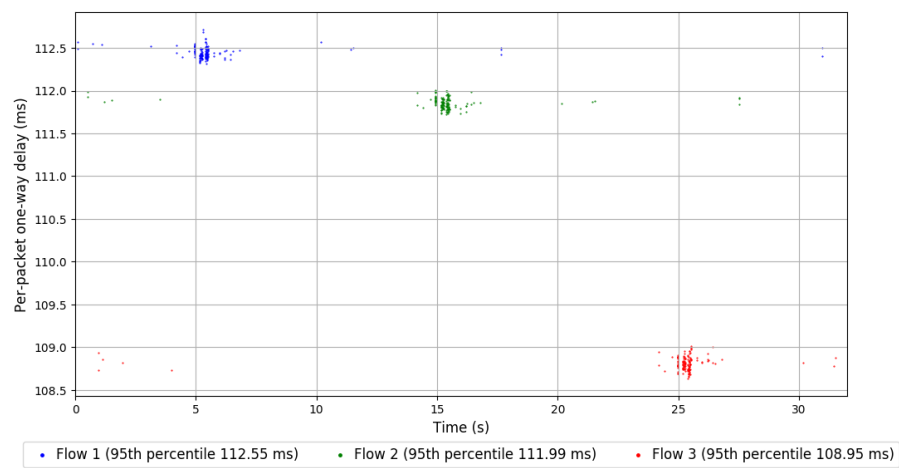
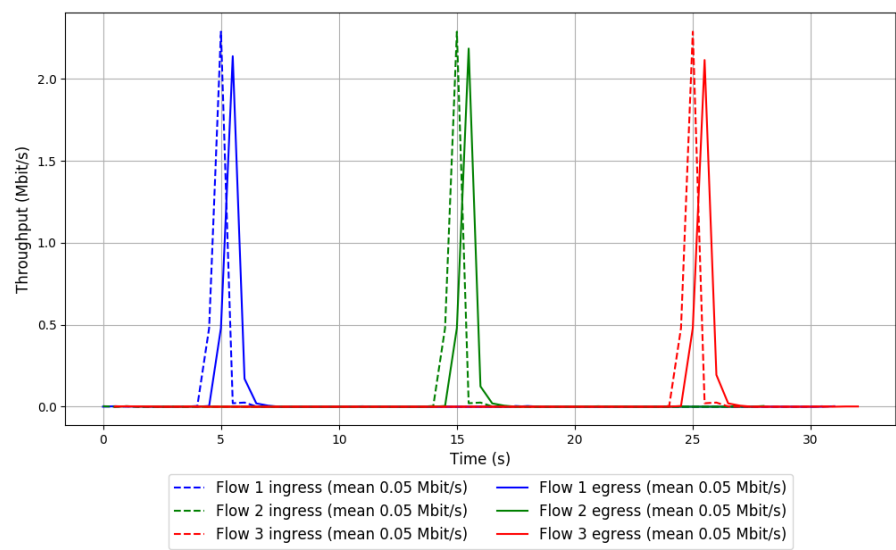


Run 2: Statistics of WebRTC media

Start at: 2019-03-09 01:09:11
End at: 2019-03-09 01:09:41
Local clock offset: -0.253 ms
Remote clock offset: -0.104 ms

Below is generated by plot.py at 2019-03-09 05:44:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 112.517 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 112.554 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 111.986 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 108.953 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

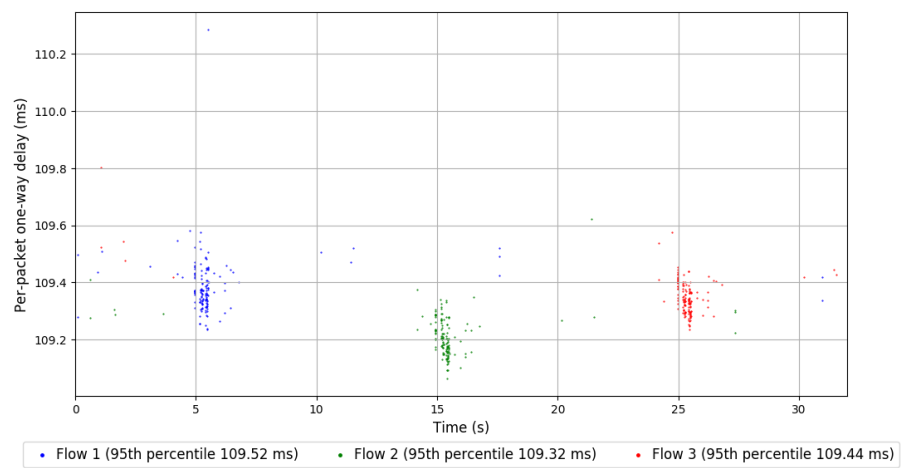
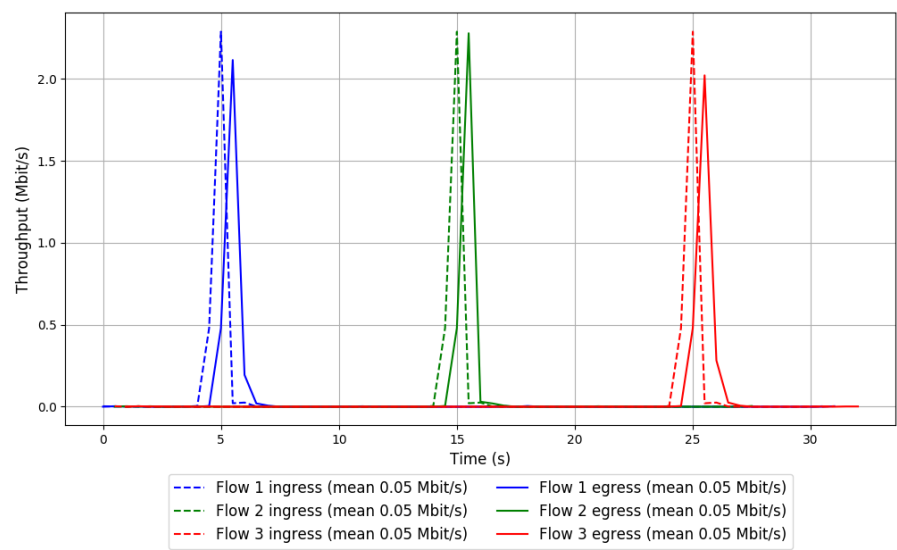


Run 3: Statistics of WebRTC media

Start at: 2019-03-09 01:46:28
End at: 2019-03-09 01:46:58
Local clock offset: -0.098 ms
Remote clock offset: -0.159 ms

Below is generated by plot.py at 2019-03-09 05:44:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 109.483 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.517 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.324 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.444 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

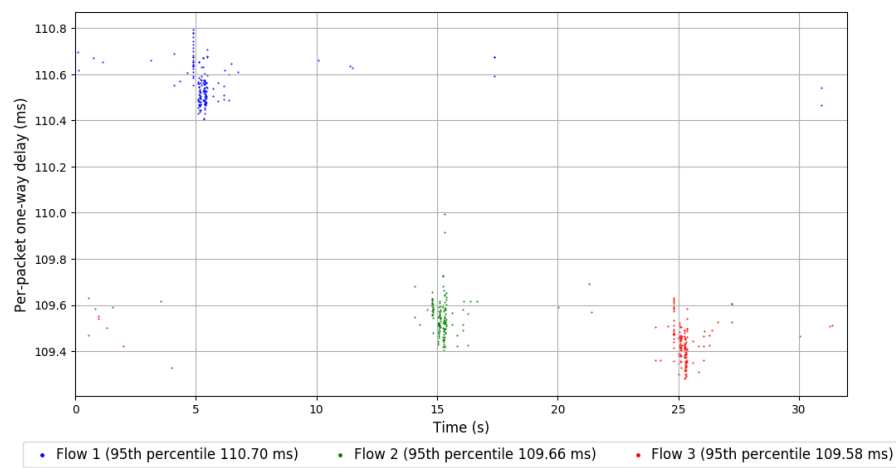
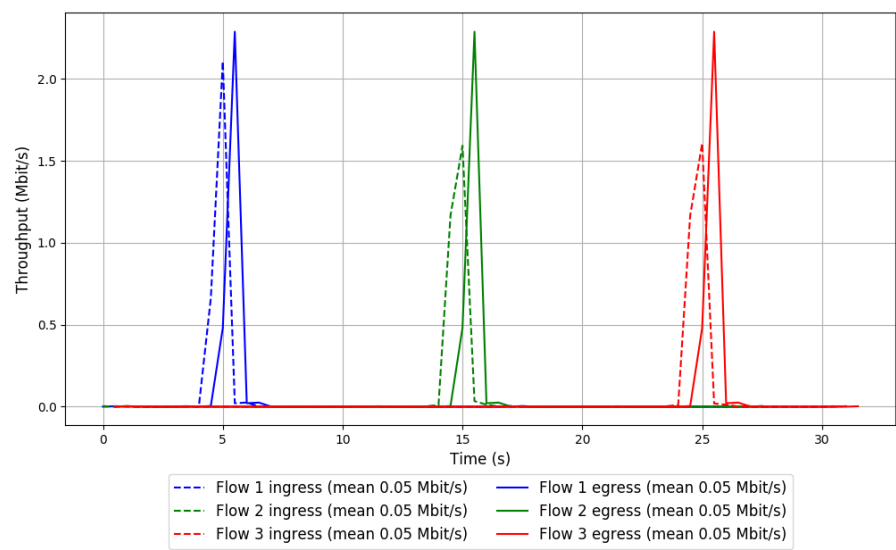


Run 4: Statistics of WebRTC media

Start at: 2019-03-09 02:24:31
End at: 2019-03-09 02:25:01
Local clock offset: -0.215 ms
Remote clock offset: -0.101 ms

Below is generated by plot.py at 2019-03-09 05:44:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 110.661 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 110.701 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.663 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.583 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-03-09 03:01:40
End at: 2019-03-09 03:02:10
Local clock offset: -0.121 ms
Remote clock offset: -0.094 ms

Below is generated by plot.py at 2019-03-09 05:44:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 111.465 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 111.510 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.433 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.396 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

