

Pantheon Report

Generated at 2018-12-21 04:30:44 (UTC).

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

Repeated the test of 19 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:

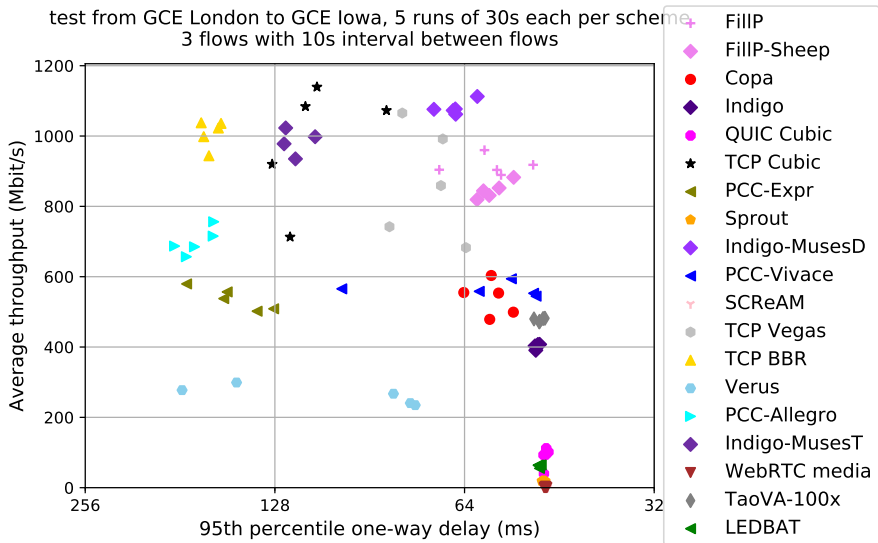
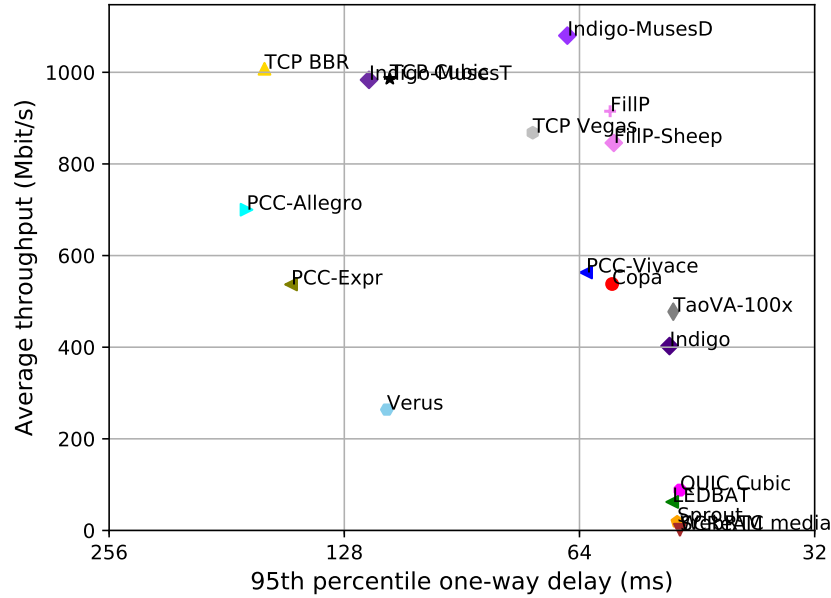
```
Linux 4.15.0-1025-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ c654af0b7d59d4ef4b914cfac404e1fc2e96dc68
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfc58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa8643c40a
third_party/muses-refactored @ 31f8f0ba8ef8b1da76c2bc0cd0a7850c33ff64fb
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
```

```
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from GCE London to GCE Iowa, 5 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



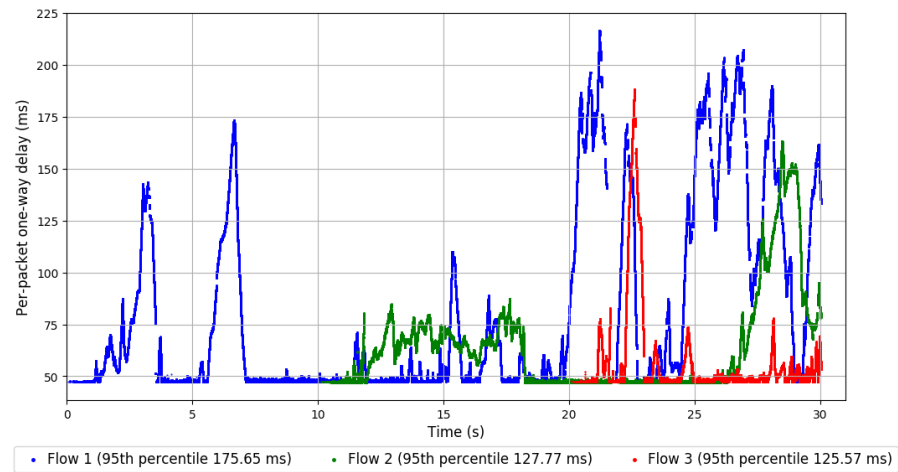
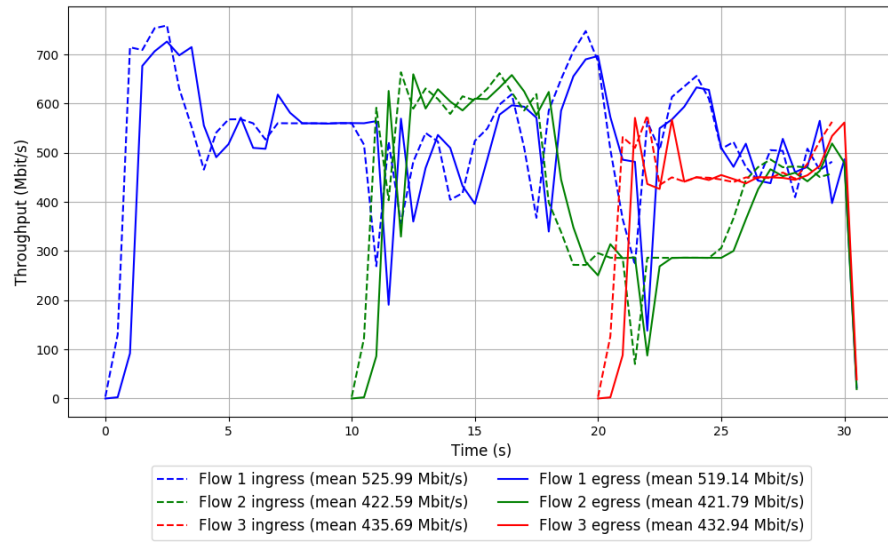
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	526.26	492.05	463.57	161.65	156.03	160.10	0.71	0.75	1.33
Copa	5	277.65	269.13	243.50	56.94	57.65	62.11	0.00	0.00	0.00
TCP Cubic	5	480.91	509.47	498.28	99.49	87.69	108.34	0.04	0.09	0.33
FillP	5	585.19	365.12	262.27	60.69	51.39	51.13	0.02	0.00	0.00
FillP-Sheep	5	552.76	318.49	245.02	61.22	49.81	50.60	0.02	0.00	0.00
Indigo	5	213.77	199.26	174.46	48.98	49.26	48.87	0.00	0.00	0.00
Indigo-MusesD	5	594.84	514.78	438.99	66.93	66.97	62.46	0.00	0.01	0.03
Indigo-MusesT	4	634.77	381.16	346.60	123.52	75.92	71.80	0.10	0.12	0.03
LEDBAT	5	39.35	27.51	13.83	48.68	48.79	47.73	0.00	0.00	0.00
PCC-Allegro	5	390.41	324.64	285.86	179.80	126.84	93.73	3.33	0.30	0.10
PCC-Expr	5	307.11	242.09	208.34	149.15	96.78	118.61	2.21	0.65	2.79
QUIC Cubic	5	41.33	50.21	40.84	47.51	47.37	47.69	0.00	0.00	0.00
SCReAM	5	0.22	0.22	0.22	47.40	47.43	47.33	0.00	0.03	0.00
Sprout	5	9.61	9.51	8.99	47.75	47.63	47.96	0.00	0.00	0.00
TaoVA-100x	5	242.68	239.67	226.04	48.12	49.04	49.05	0.00	0.00	0.00
TCP Vegas	5	473.03	392.40	402.07	63.01	63.53	69.89	0.01	0.14	0.13
Verus	5	152.54	121.38	94.11	121.75	78.50	77.70	0.97	0.03	0.04
PCC-Vivace	5	352.45	292.51	48.75	65.61	61.48	47.72	0.00	0.04	0.00
WebRTC media	5	0.83	0.57	0.25	47.30	47.29	47.64	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-12-20 23:11:53
End at: 2018-12-20 23:12:23
Local clock offset: -0.003 ms
Remote clock offset: -0.107 ms

Below is generated by plot.py at 2018-12-21 02:03:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 943.92 Mbit/s
95th percentile per-packet one-way delay: 162.889 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 519.14 Mbit/s
95th percentile per-packet one-way delay: 175.647 ms
Loss rate: 1.30%
-- Flow 2:
Average throughput: 421.79 Mbit/s
95th percentile per-packet one-way delay: 127.770 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 432.94 Mbit/s
95th percentile per-packet one-way delay: 125.569 ms
Loss rate: 0.63%

Run 1: Report of TCP BBR — Data Link

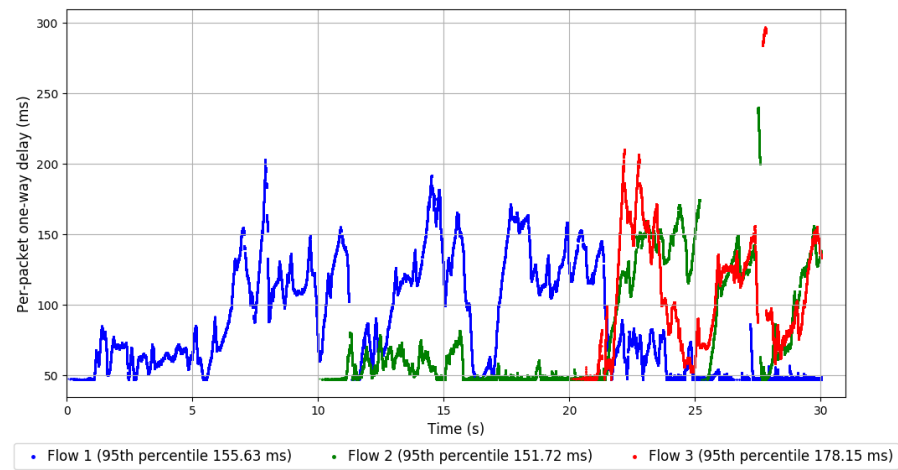
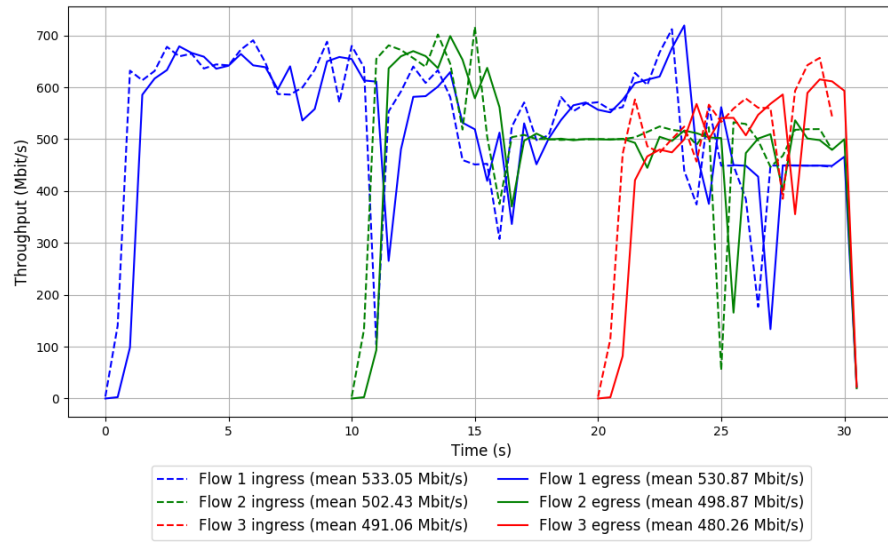


Run 2: Statistics of TCP BBR

Start at: 2018-12-20 23:44:38
End at: 2018-12-20 23:45:08
Local clock offset: -0.075 ms
Remote clock offset: -0.173 ms

Below is generated by plot.py at 2018-12-21 02:05:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 1022.82 Mbit/s
95th percentile per-packet one-way delay: 157.371 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 530.87 Mbit/s
95th percentile per-packet one-way delay: 155.630 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 498.87 Mbit/s
95th percentile per-packet one-way delay: 151.721 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 480.26 Mbit/s
95th percentile per-packet one-way delay: 178.147 ms
Loss rate: 2.20%

Run 2: Report of TCP BBR — Data Link

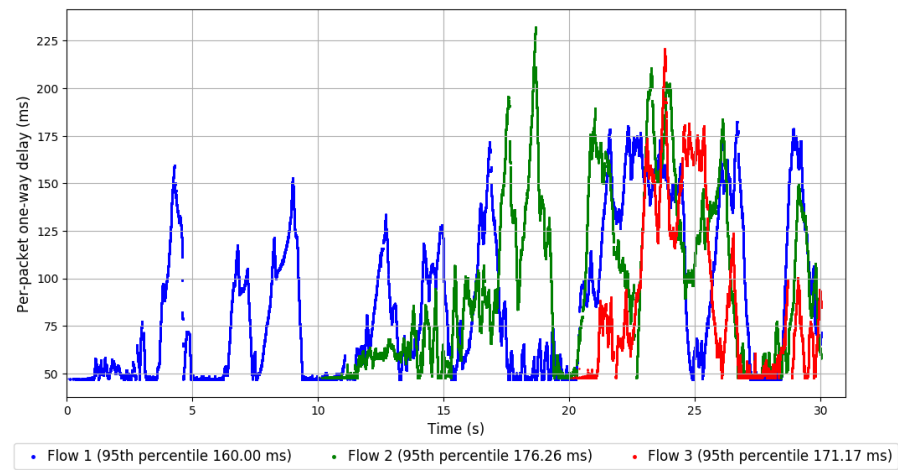
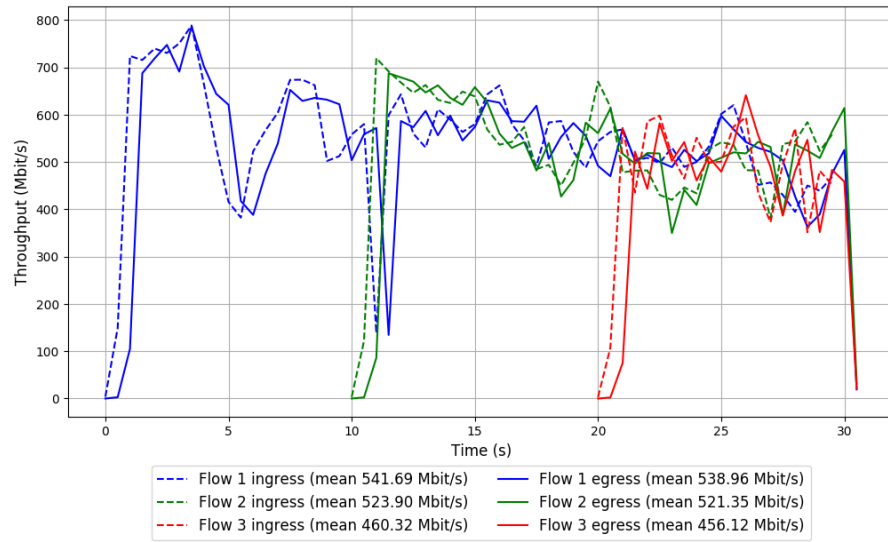


Run 3: Statistics of TCP BBR

Start at: 2018-12-21 00:17:42
End at: 2018-12-21 00:18:12
Local clock offset: -0.405 ms
Remote clock offset: -0.078 ms

Below is generated by plot.py at 2018-12-21 02:05:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 1037.65 Mbit/s
95th percentile per-packet one-way delay: 167.549 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 538.96 Mbit/s
95th percentile per-packet one-way delay: 159.998 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 521.35 Mbit/s
95th percentile per-packet one-way delay: 176.263 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 456.12 Mbit/s
95th percentile per-packet one-way delay: 171.172 ms
Loss rate: 0.91%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-12-21 00:50:56

End at: 2018-12-21 00:51:26

Local clock offset: -0.161 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2018-12-21 02:05:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 998.26 Mbit/s

95th percentile per-packet one-way delay: 166.025 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 520.24 Mbit/s

95th percentile per-packet one-way delay: 162.803 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 494.11 Mbit/s

95th percentile per-packet one-way delay: 164.258 ms

Loss rate: 1.48%

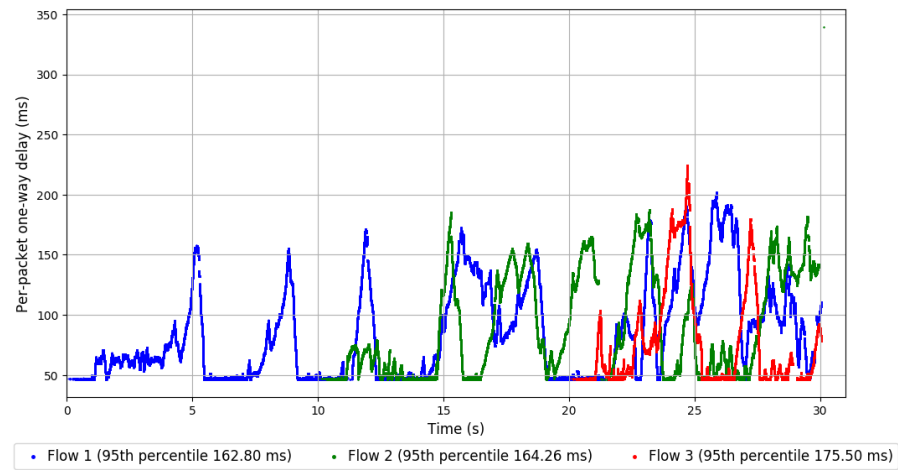
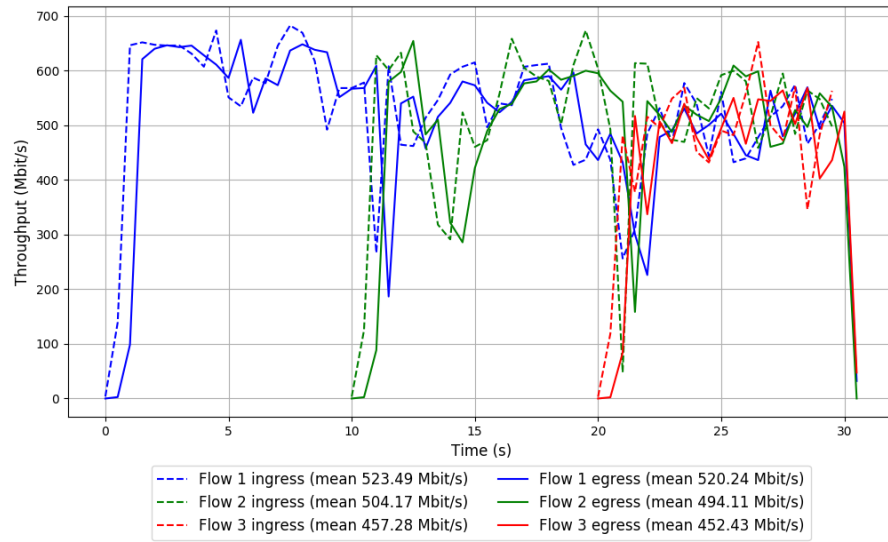
-- Flow 3:

Average throughput: 452.43 Mbit/s

95th percentile per-packet one-way delay: 175.499 ms

Loss rate: 1.03%

Run 4: Report of TCP BBR — Data Link

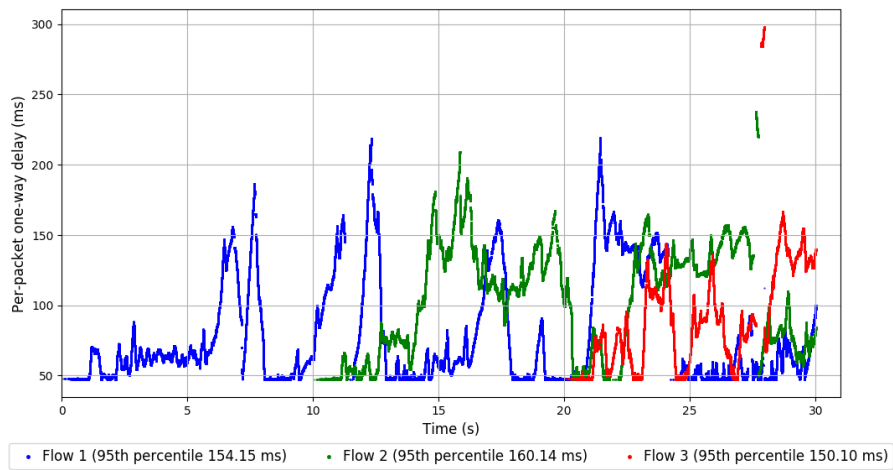
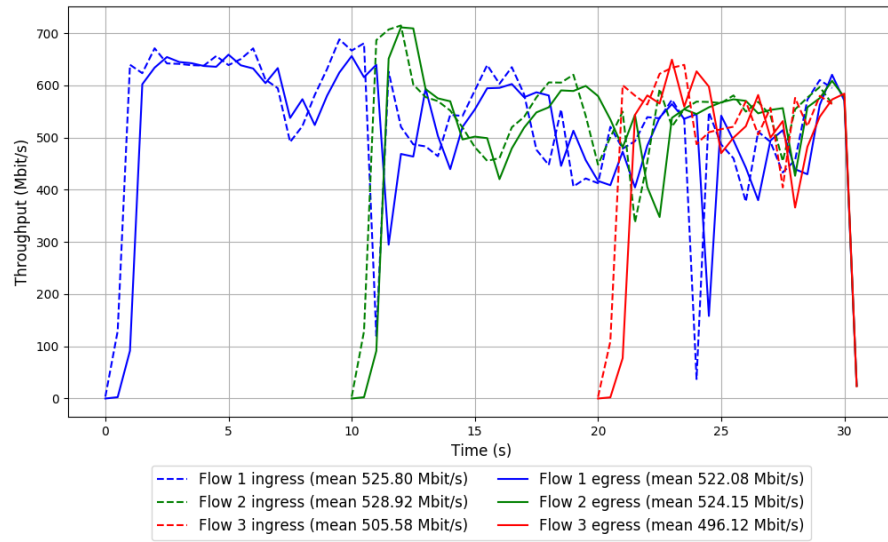


Run 5: Statistics of TCP BBR

Start at: 2018-12-21 01:23:38
End at: 2018-12-21 01:24:08
Local clock offset: -0.128 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-12-21 02:05:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 1035.91 Mbit/s
95th percentile per-packet one-way delay: 155.845 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 522.08 Mbit/s
95th percentile per-packet one-way delay: 154.150 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 524.15 Mbit/s
95th percentile per-packet one-way delay: 160.140 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 496.12 Mbit/s
95th percentile per-packet one-way delay: 150.100 ms
Loss rate: 1.87%

Run 5: Report of TCP BBR — Data Link

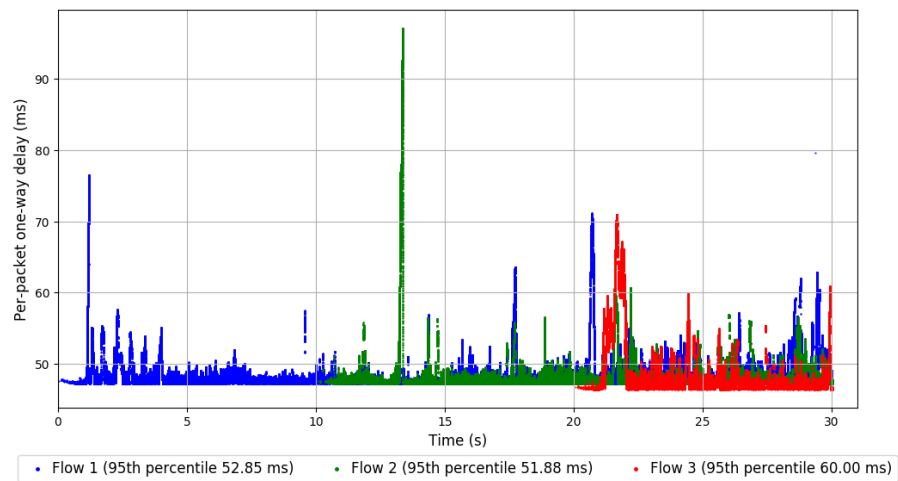
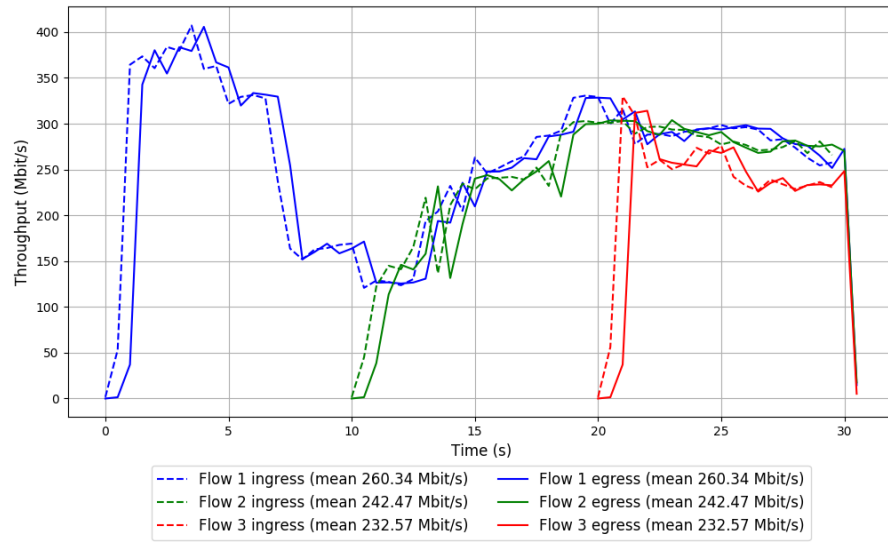


Run 1: Statistics of Copa

Start at: 2018-12-20 22:57:49
End at: 2018-12-20 22:58:19
Local clock offset: -0.033 ms
Remote clock offset: -0.095 ms

Below is generated by plot.py at 2018-12-21 02:05:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 499.11 Mbit/s
95th percentile per-packet one-way delay: 53.541 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 260.34 Mbit/s
95th percentile per-packet one-way delay: 52.852 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 242.47 Mbit/s
95th percentile per-packet one-way delay: 51.881 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 232.57 Mbit/s
95th percentile per-packet one-way delay: 60.002 ms
Loss rate: 0.00%

Run 1: Report of Copa — Data Link

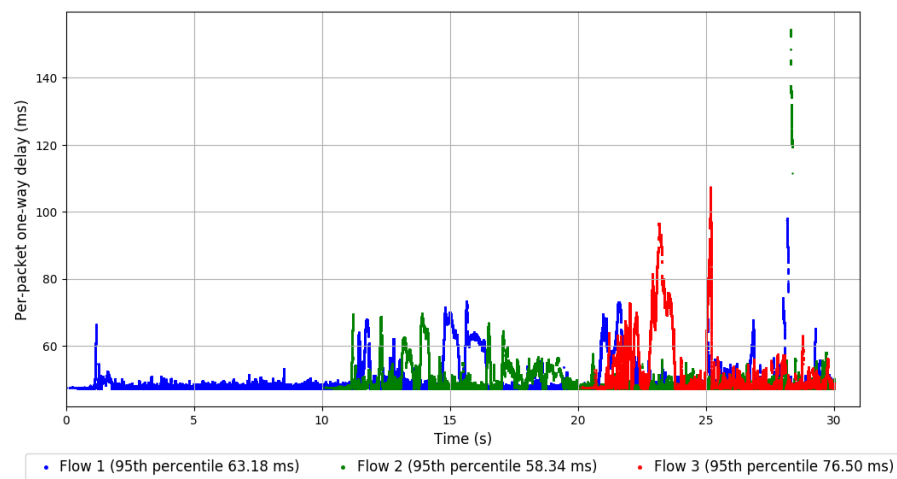
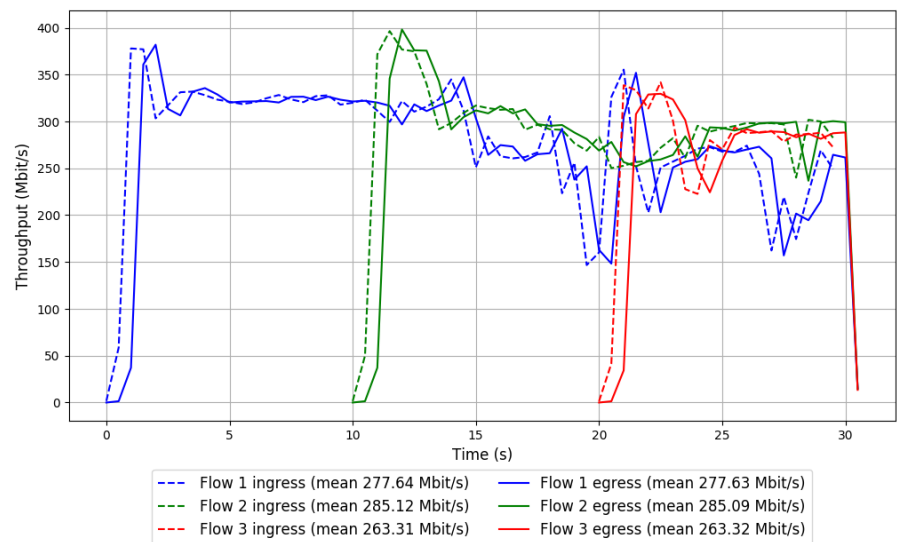


Run 2: Statistics of Copa

Start at: 2018-12-20 23:30:38
End at: 2018-12-20 23:31:08
Local clock offset: -0.096 ms
Remote clock offset: -0.127 ms

Below is generated by plot.py at 2018-12-21 02:05:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 555.00 Mbit/s
95th percentile per-packet one-way delay: 64.182 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 277.63 Mbit/s
95th percentile per-packet one-way delay: 63.181 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 285.09 Mbit/s
95th percentile per-packet one-way delay: 58.339 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 263.32 Mbit/s
95th percentile per-packet one-way delay: 76.498 ms
Loss rate: 0.00%

Run 2: Report of Copa — Data Link

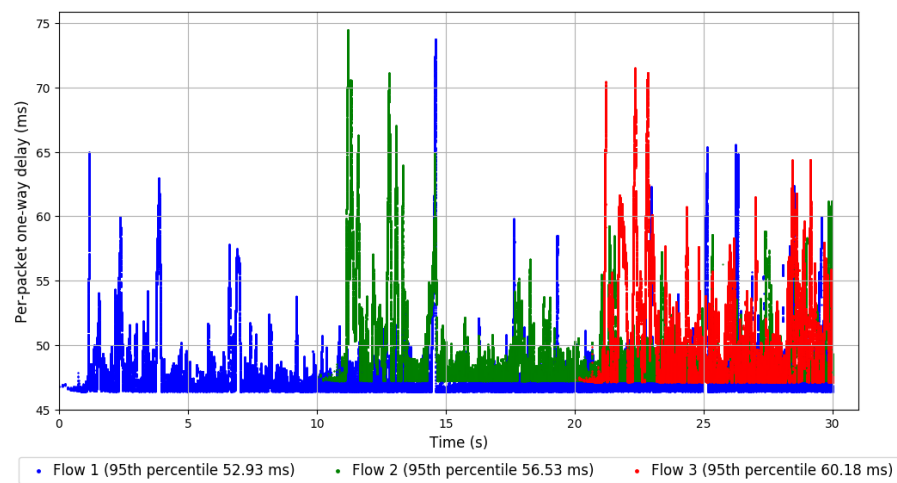
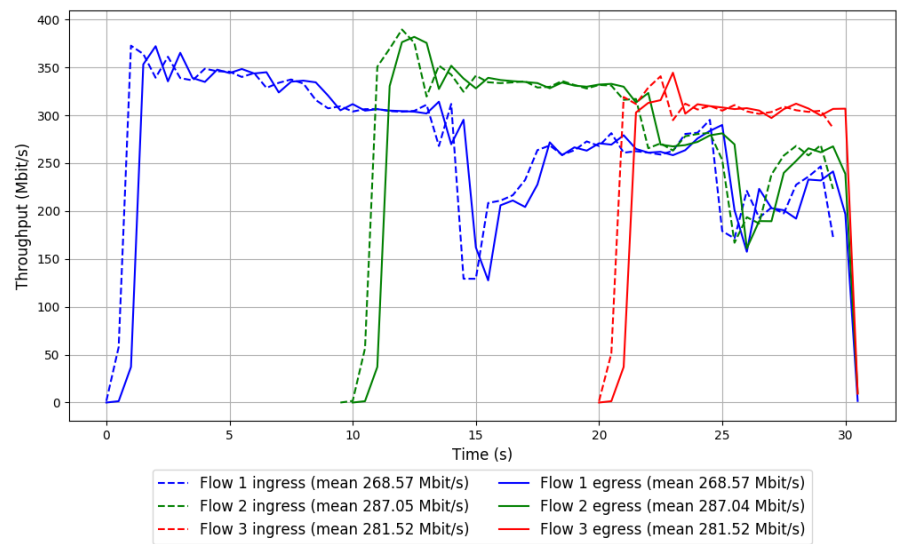


Run 3: Statistics of Copa

Start at: 2018-12-21 00:03:25
End at: 2018-12-21 00:03:55
Local clock offset: -0.049 ms
Remote clock offset: -0.078 ms

Below is generated by plot.py at 2018-12-21 02:05:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 553.43 Mbit/s
95th percentile per-packet one-way delay: 56.514 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 268.57 Mbit/s
95th percentile per-packet one-way delay: 52.932 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 287.04 Mbit/s
95th percentile per-packet one-way delay: 56.528 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 281.52 Mbit/s
95th percentile per-packet one-way delay: 60.181 ms
Loss rate: 0.00%

Run 3: Report of Copa — Data Link

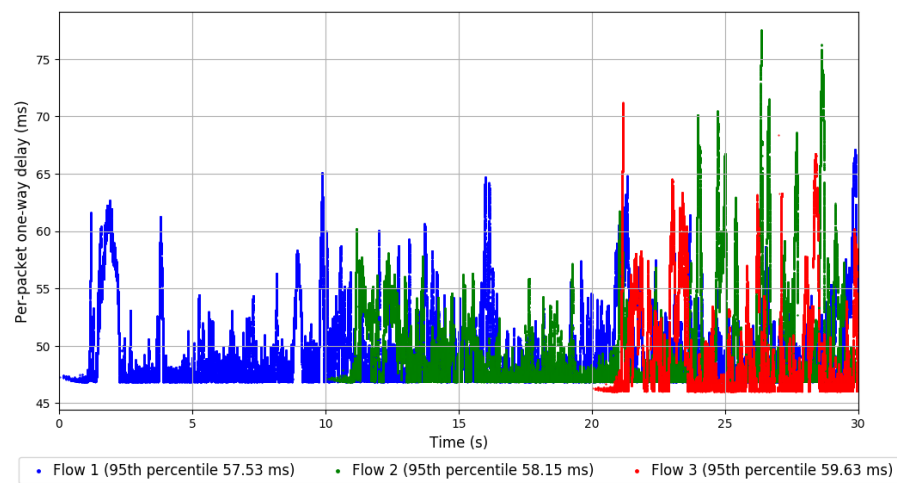
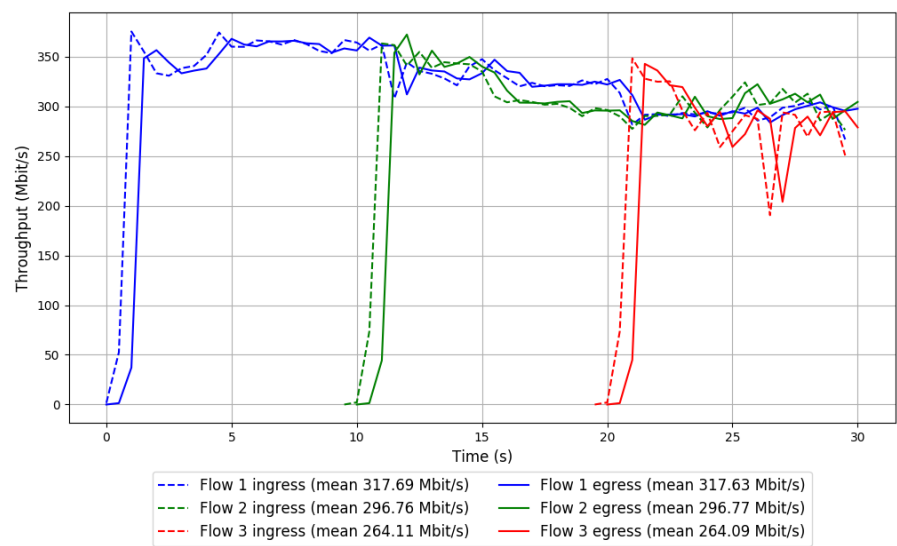


Run 4: Statistics of Copa

Start at: 2018-12-21 00:36:37
End at: 2018-12-21 00:37:07
Local clock offset: 0.213 ms
Remote clock offset: -0.075 ms

Below is generated by plot.py at 2018-12-21 02:25:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 603.41 Mbit/s
95th percentile per-packet one-way delay: 58.045 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 317.63 Mbit/s
95th percentile per-packet one-way delay: 57.531 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 296.77 Mbit/s
95th percentile per-packet one-way delay: 58.146 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 264.09 Mbit/s
95th percentile per-packet one-way delay: 59.633 ms
Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-12-21 01:09:51

End at: 2018-12-21 01:10:21

Local clock offset: -0.11 ms

Remote clock offset: -0.06 ms

Below is generated by plot.py at 2018-12-21 02:25:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 478.62 Mbit/s

95th percentile per-packet one-way delay: 58.377 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 264.08 Mbit/s

95th percentile per-packet one-way delay: 58.208 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 234.29 Mbit/s

95th percentile per-packet one-way delay: 63.373 ms

Loss rate: 0.00%

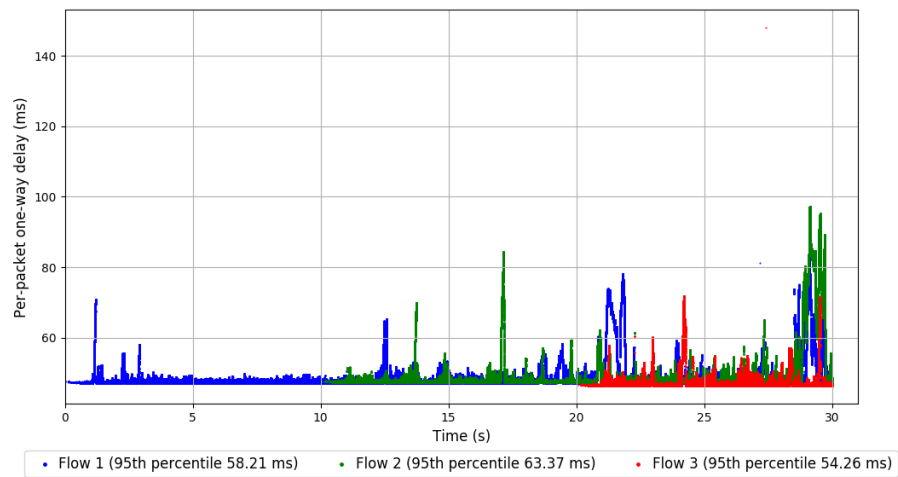
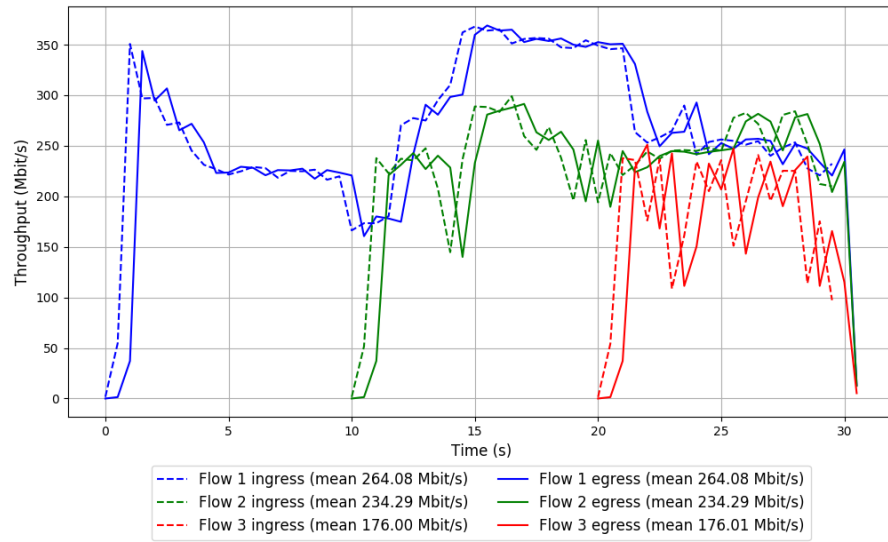
-- Flow 3:

Average throughput: 176.01 Mbit/s

95th percentile per-packet one-way delay: 54.258 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link

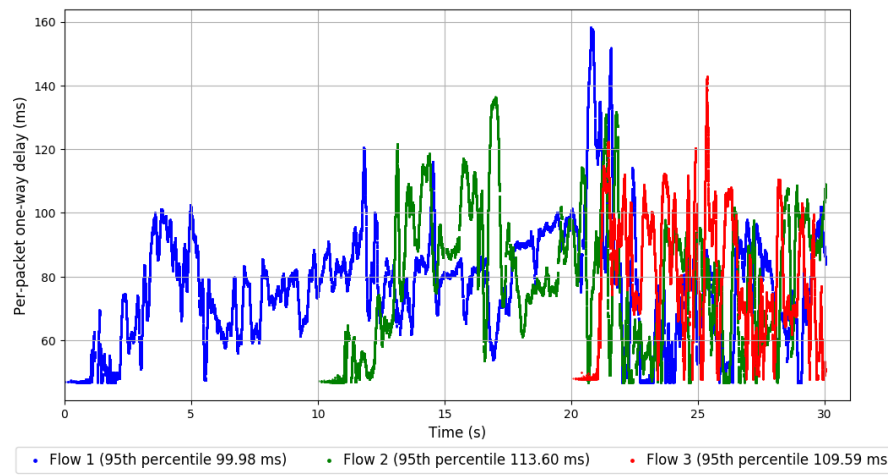
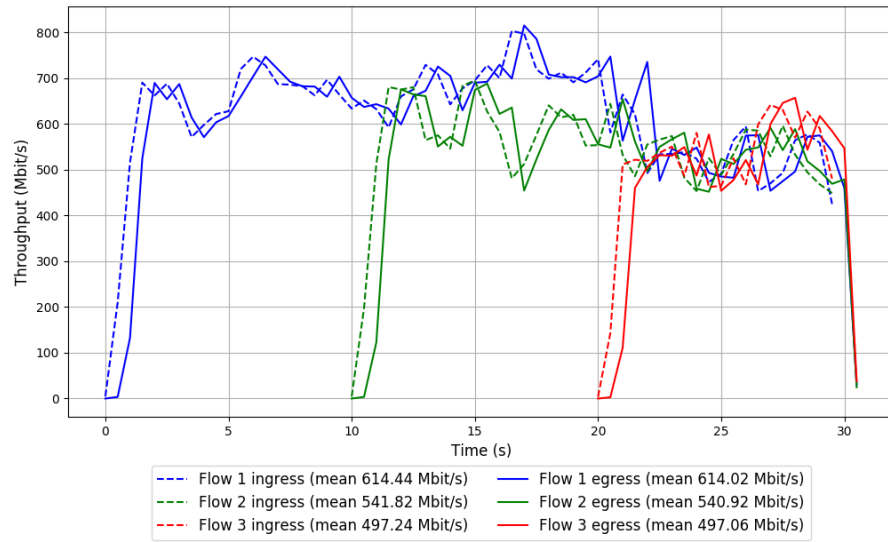


Run 1: Statistics of TCP Cubic

Start at: 2018-12-20 23:09:45
End at: 2018-12-20 23:10:15
Local clock offset: -0.351 ms
Remote clock offset: -0.176 ms

Below is generated by plot.py at 2018-12-21 02:26:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 1139.51 Mbit/s
95th percentile per-packet one-way delay: 109.753 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 614.02 Mbit/s
95th percentile per-packet one-way delay: 99.983 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 540.92 Mbit/s
95th percentile per-packet one-way delay: 113.601 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 497.06 Mbit/s
95th percentile per-packet one-way delay: 109.593 ms
Loss rate: 0.03%

Run 1: Report of TCP Cubic — Data Link

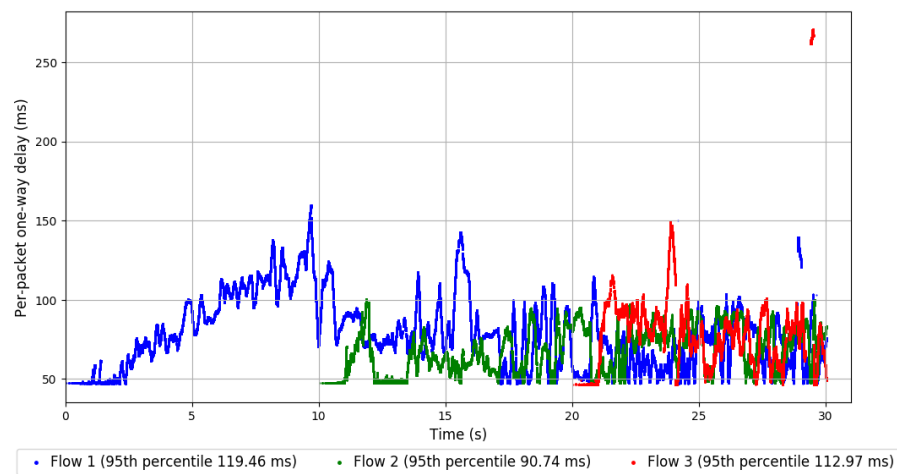
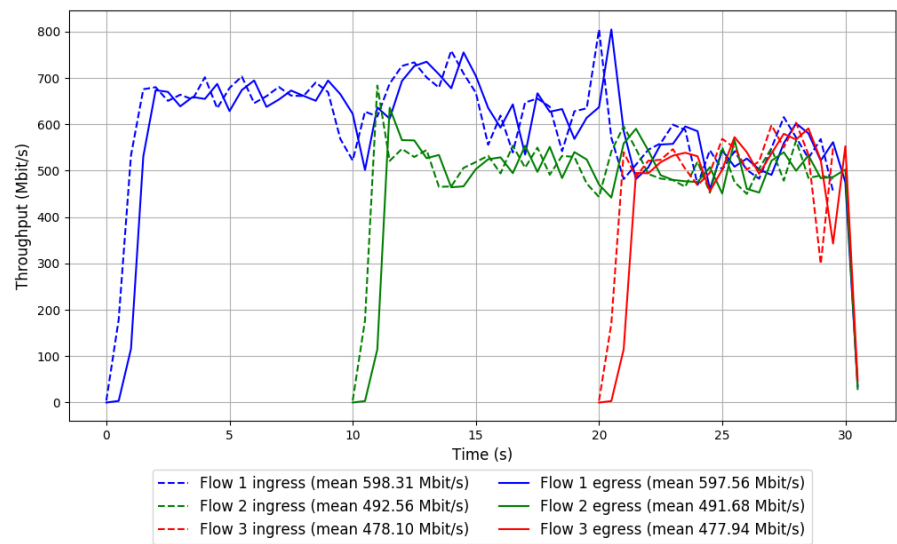


Run 2: Statistics of TCP Cubic

Start at: 2018-12-20 23:42:33
End at: 2018-12-20 23:43:03
Local clock offset: -0.079 ms
Remote clock offset: -0.165 ms

Below is generated by plot.py at 2018-12-21 02:26:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 1084.06 Mbit/s
95th percentile per-packet one-way delay: 114.478 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 597.56 Mbit/s
95th percentile per-packet one-way delay: 119.460 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 491.68 Mbit/s
95th percentile per-packet one-way delay: 90.744 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 477.94 Mbit/s
95th percentile per-packet one-way delay: 112.967 ms
Loss rate: 0.02%

Run 2: Report of TCP Cubic — Data Link

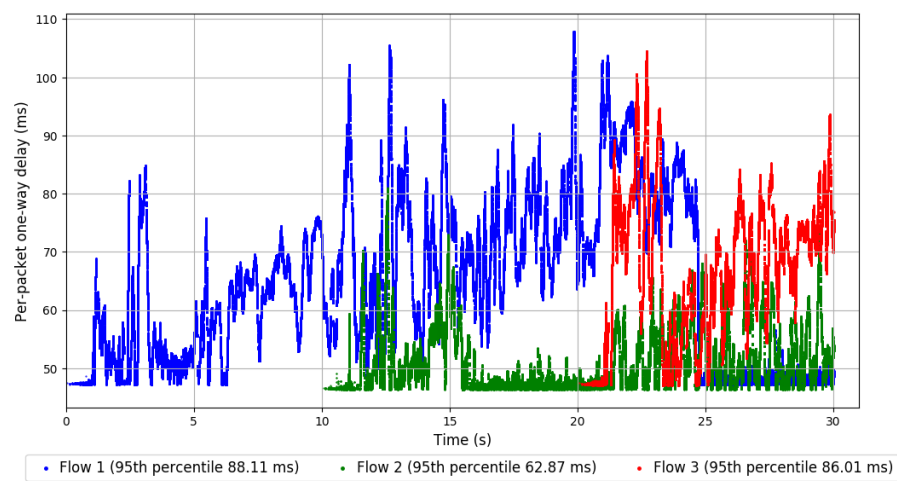
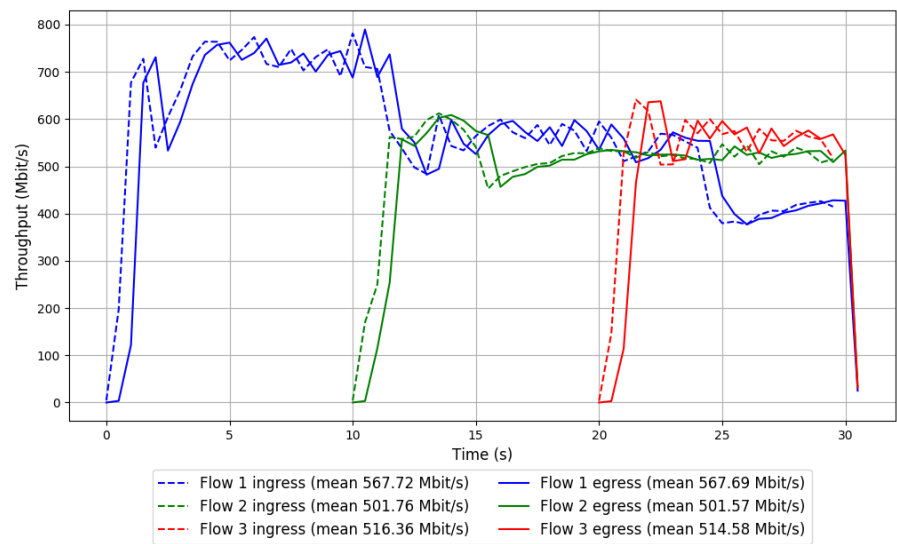


Run 3: Statistics of TCP Cubic

Start at: 2018-12-21 00:15:38
End at: 2018-12-21 00:16:08
Local clock offset: -0.017 ms
Remote clock offset: -0.115 ms

Below is generated by plot.py at 2018-12-21 02:26:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 1072.71 Mbit/s
95th percentile per-packet one-way delay: 85.128 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 567.69 Mbit/s
95th percentile per-packet one-way delay: 88.109 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 501.57 Mbit/s
95th percentile per-packet one-way delay: 62.874 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 514.58 Mbit/s
95th percentile per-packet one-way delay: 86.011 ms
Loss rate: 0.33%

Run 3: Report of TCP Cubic — Data Link

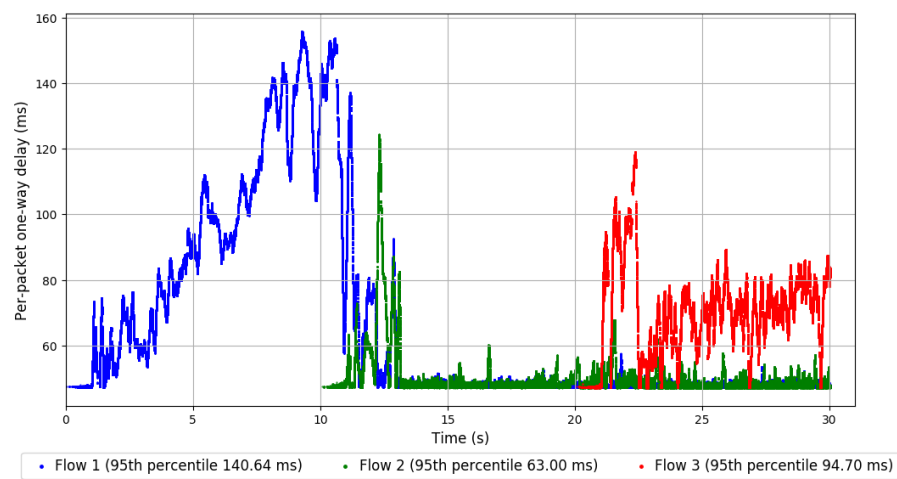
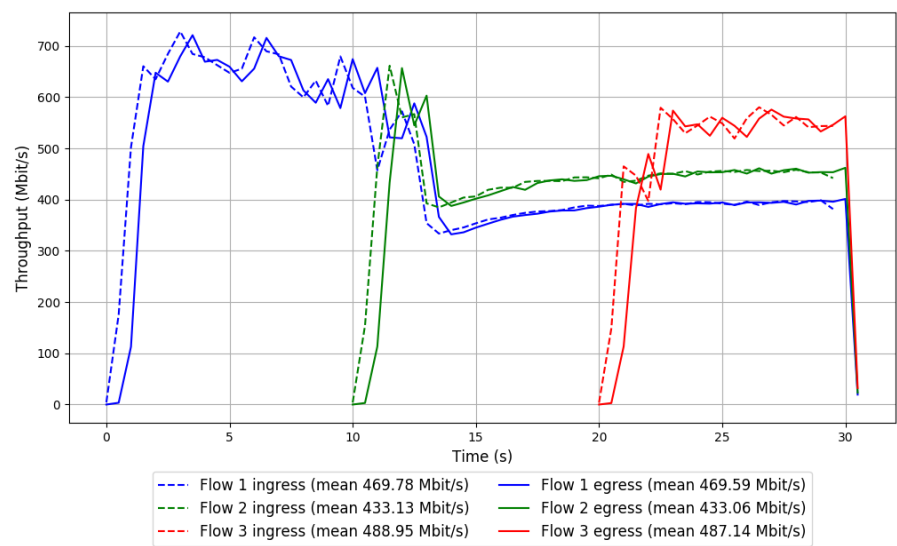


Run 4: Statistics of TCP Cubic

Start at: 2018-12-21 00:48:59
End at: 2018-12-21 00:49:29
Local clock offset: -0.159 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-12-21 02:26:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 919.91 Mbit/s
95th percentile per-packet one-way delay: 129.273 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 469.59 Mbit/s
95th percentile per-packet one-way delay: 140.639 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 433.06 Mbit/s
95th percentile per-packet one-way delay: 62.997 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 487.14 Mbit/s
95th percentile per-packet one-way delay: 94.698 ms
Loss rate: 0.35%

Run 4: Report of TCP Cubic — Data Link

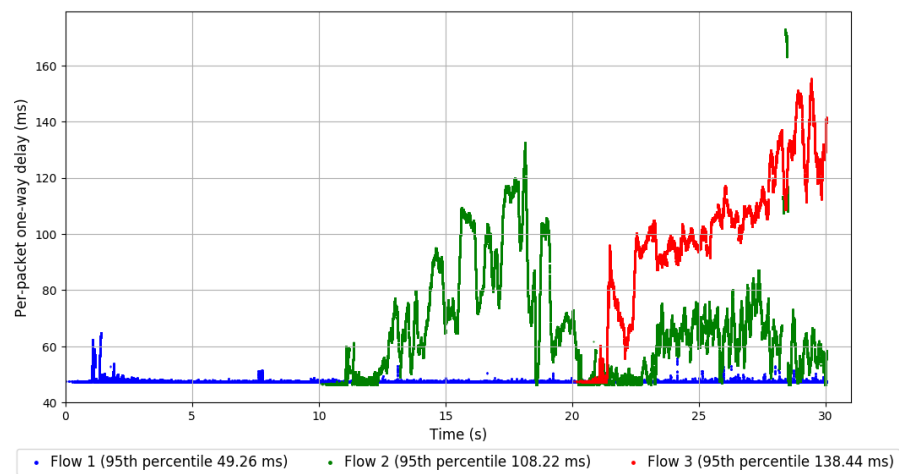
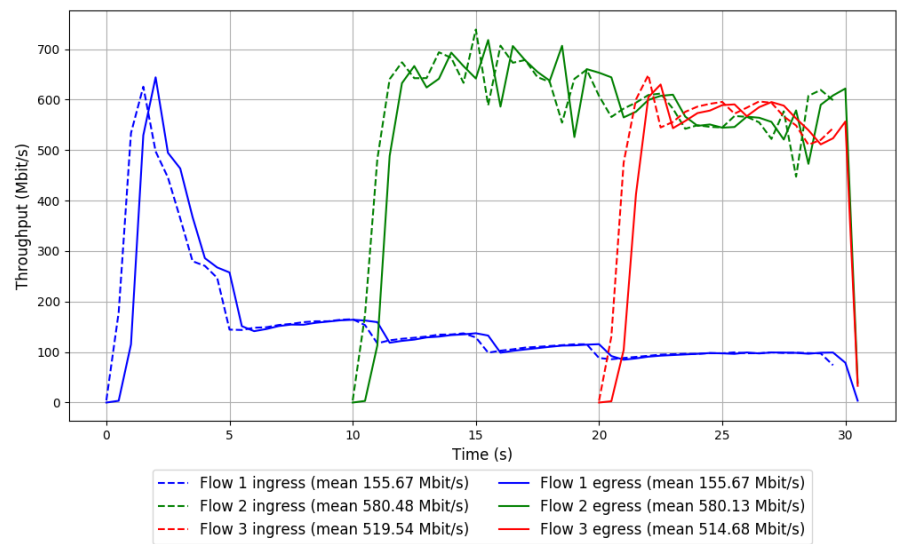


Run 5: Statistics of TCP Cubic

Start at: 2018-12-21 01:21:52
End at: 2018-12-21 01:22:22
Local clock offset: -0.09 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2018-12-21 02:26:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 713.02 Mbit/s
95th percentile per-packet one-way delay: 121.082 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 155.67 Mbit/s
95th percentile per-packet one-way delay: 49.258 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 580.13 Mbit/s
95th percentile per-packet one-way delay: 108.217 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 514.68 Mbit/s
95th percentile per-packet one-way delay: 138.444 ms
Loss rate: 0.93%

Run 5: Report of TCP Cubic — Data Link

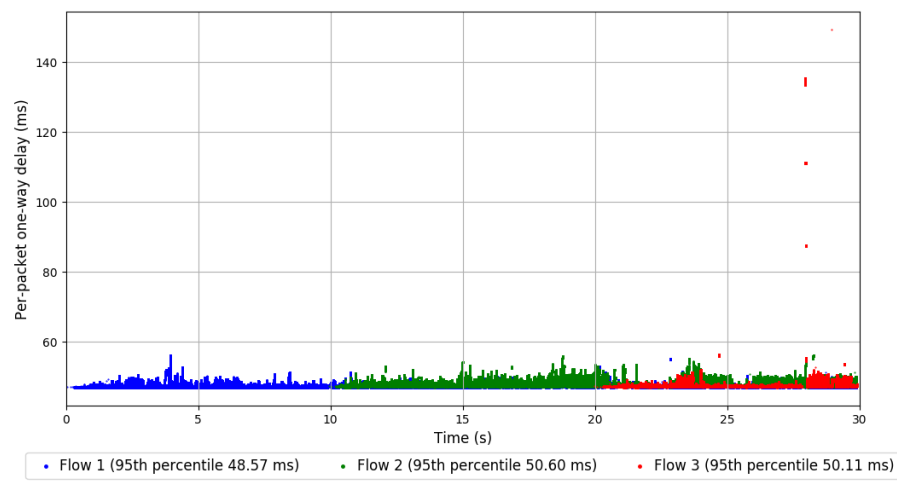
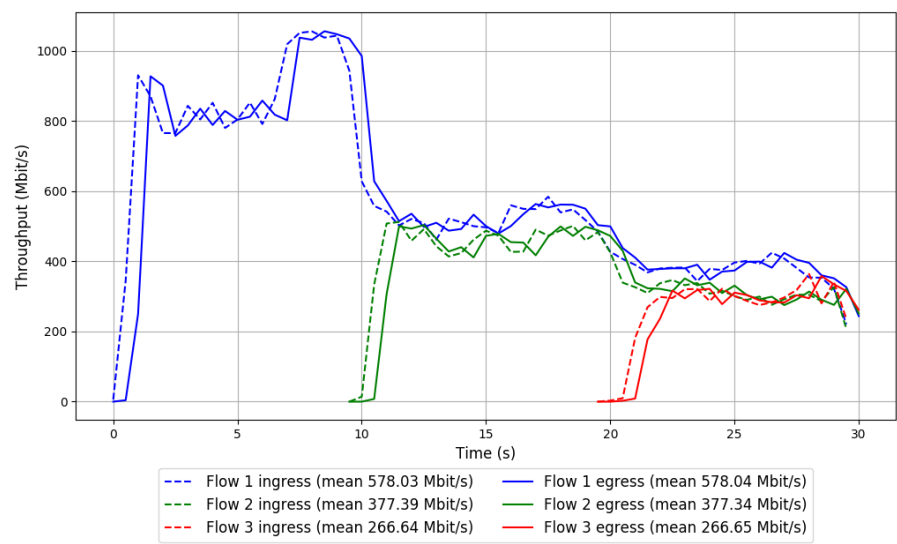


Run 1: Statistics of FillP

Start at: 2018-12-20 23:06:08
End at: 2018-12-20 23:06:38
Local clock offset: 0.368 ms
Remote clock offset: -0.134 ms

Below is generated by plot.py at 2018-12-21 02:26:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 918.11 Mbit/s
95th percentile per-packet one-way delay: 49.808 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 578.04 Mbit/s
95th percentile per-packet one-way delay: 48.574 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 377.34 Mbit/s
95th percentile per-packet one-way delay: 50.603 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 266.65 Mbit/s
95th percentile per-packet one-way delay: 50.108 ms
Loss rate: 0.00%

Run 1: Report of FillP — Data Link

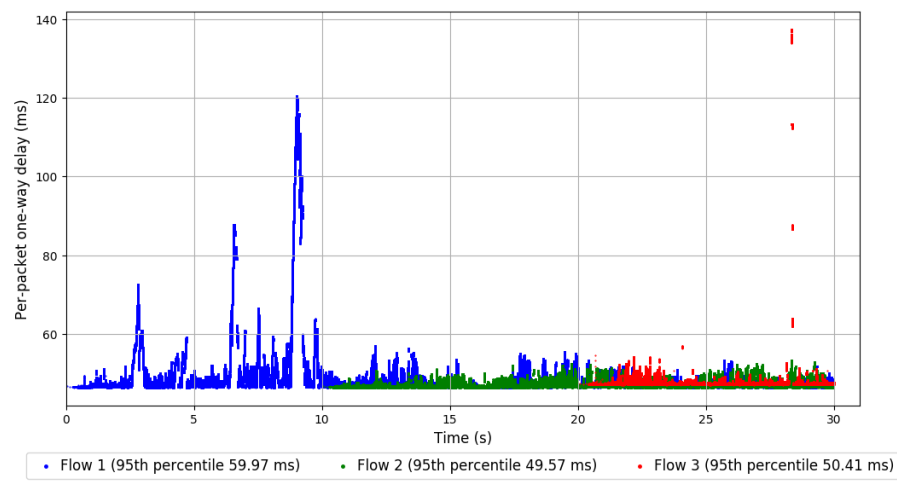
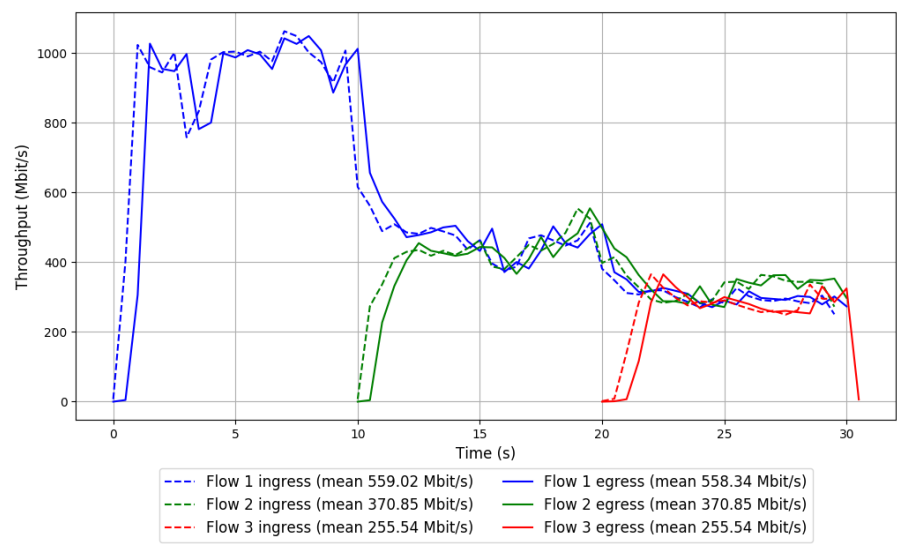


Run 2: Statistics of FillP

Start at: 2018-12-20 23:39:00
End at: 2018-12-20 23:39:30
Local clock offset: -0.091 ms
Remote clock offset: -0.157 ms

Below is generated by plot.py at 2018-12-21 02:38:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 889.31 Mbit/s
95th percentile per-packet one-way delay: 56.005 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 558.34 Mbit/s
95th percentile per-packet one-way delay: 59.967 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 370.85 Mbit/s
95th percentile per-packet one-way delay: 49.572 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 255.54 Mbit/s
95th percentile per-packet one-way delay: 50.412 ms
Loss rate: 0.00%

Run 2: Report of FillP — Data Link

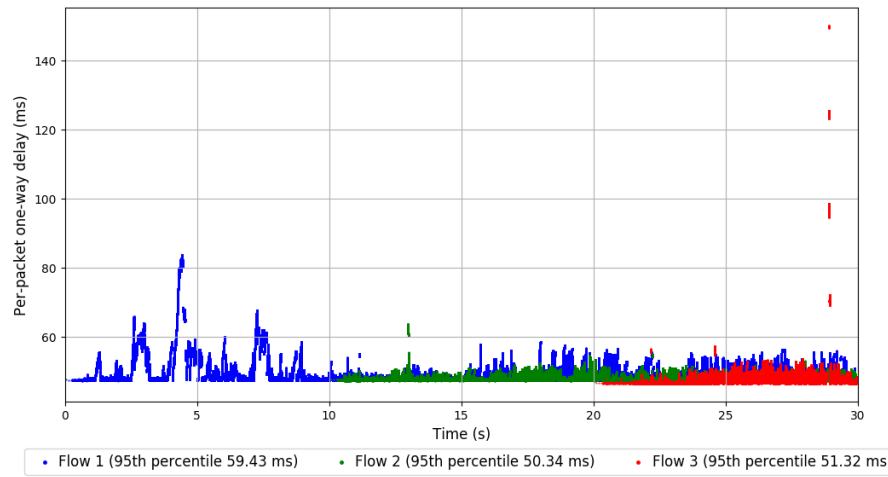
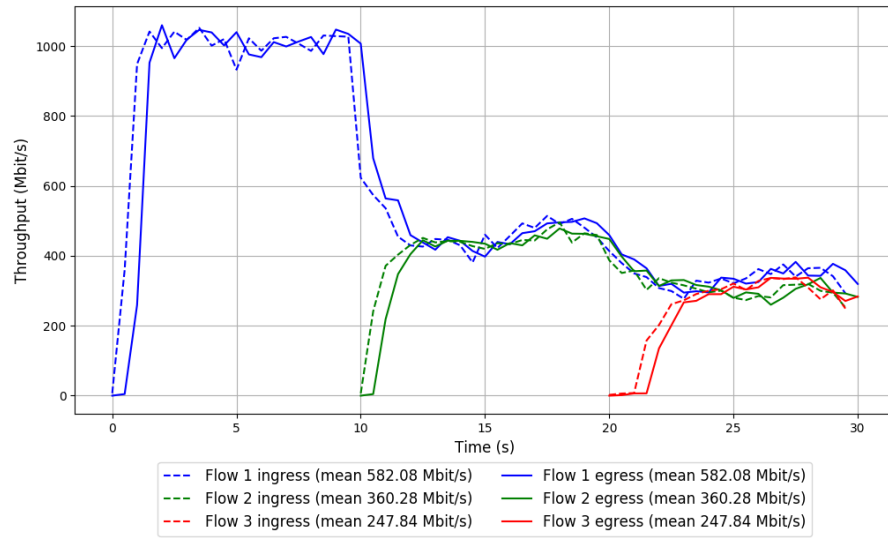


Run 3: Statistics of FillP

Start at: 2018-12-21 00:11:50
End at: 2018-12-21 00:12:20
Local clock offset: -0.013 ms
Remote clock offset: -0.127 ms

Below is generated by plot.py at 2018-12-21 02:42:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 903.68 Mbit/s
95th percentile per-packet one-way delay: 56.857 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 582.08 Mbit/s
95th percentile per-packet one-way delay: 59.426 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 360.28 Mbit/s
95th percentile per-packet one-way delay: 50.344 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 247.84 Mbit/s
95th percentile per-packet one-way delay: 51.323 ms
Loss rate: 0.00%

Run 3: Report of FillP — Data Link

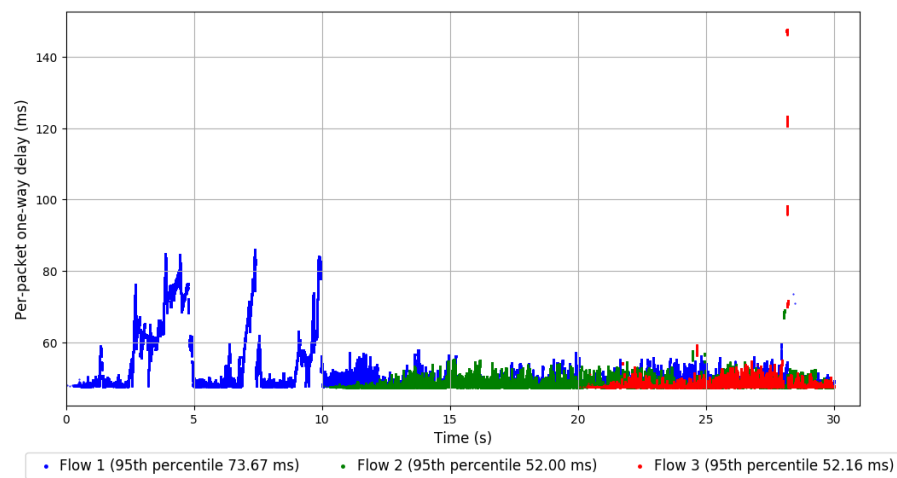
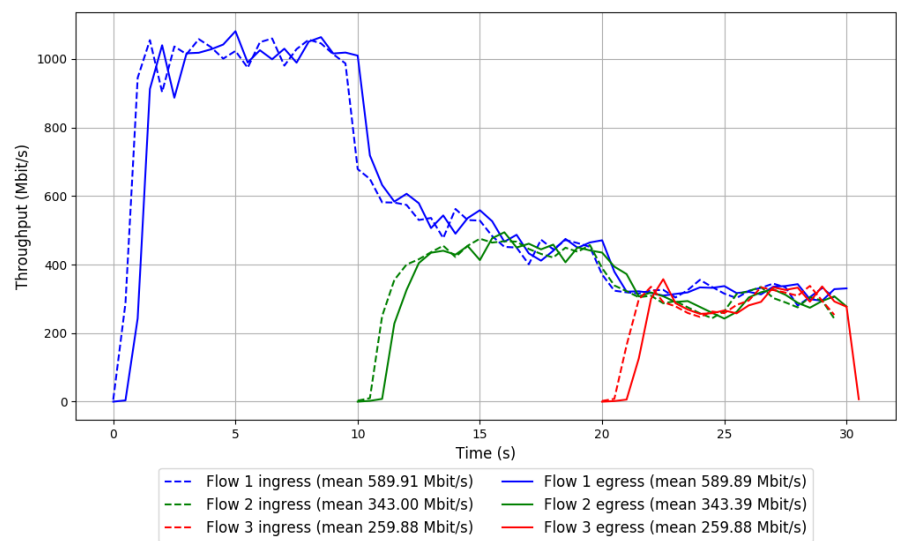


Run 4: Statistics of FillP

Start at: 2018-12-21 00:45:06
End at: 2018-12-21 00:45:36
Local clock offset: -0.183 ms
Remote clock offset: -0.069 ms

```
# Below is generated by plot.py at 2018-12-21 02:44:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 904.11 Mbit/s
95th percentile per-packet one-way delay: 70.199 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 589.89 Mbit/s
95th percentile per-packet one-way delay: 73.673 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 343.39 Mbit/s
95th percentile per-packet one-way delay: 52.000 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 259.88 Mbit/s
95th percentile per-packet one-way delay: 52.159 ms
Loss rate: 0.00%
```

Run 4: Report of FillP — Data Link

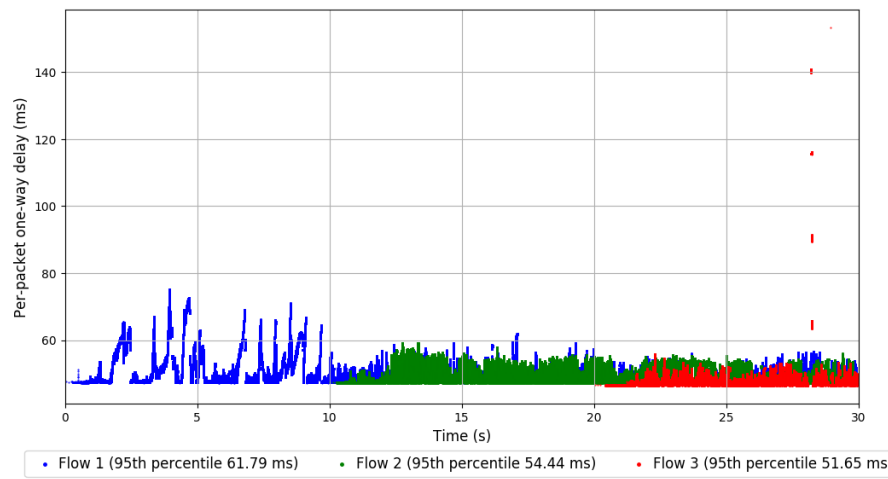
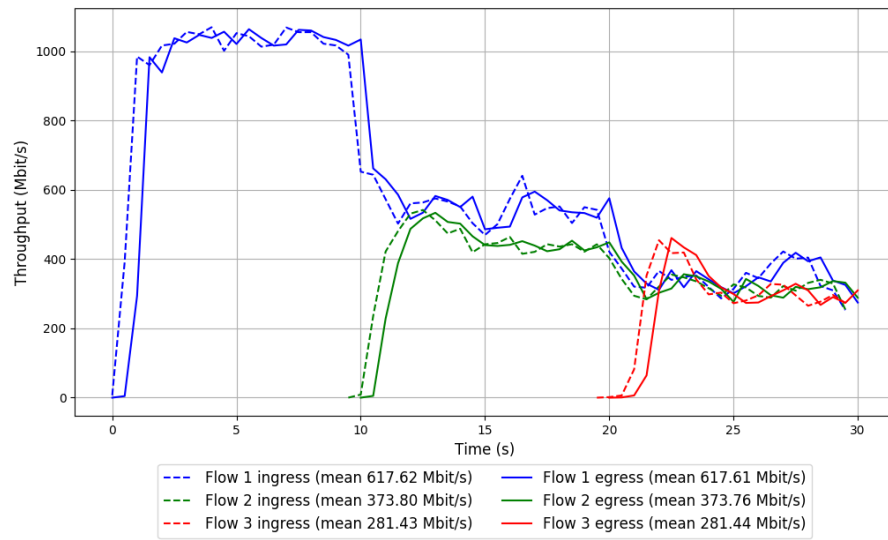


Run 5: Statistics of FillP

Start at: 2018-12-21 01:18:08
End at: 2018-12-21 01:18:38
Local clock offset: -0.089 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-12-21 02:48:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 959.88 Mbit/s
95th percentile per-packet one-way delay: 59.500 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 617.61 Mbit/s
95th percentile per-packet one-way delay: 61.794 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 373.76 Mbit/s
95th percentile per-packet one-way delay: 54.439 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 281.44 Mbit/s
95th percentile per-packet one-way delay: 51.653 ms
Loss rate: 0.00%

Run 5: Report of FillP — Data Link

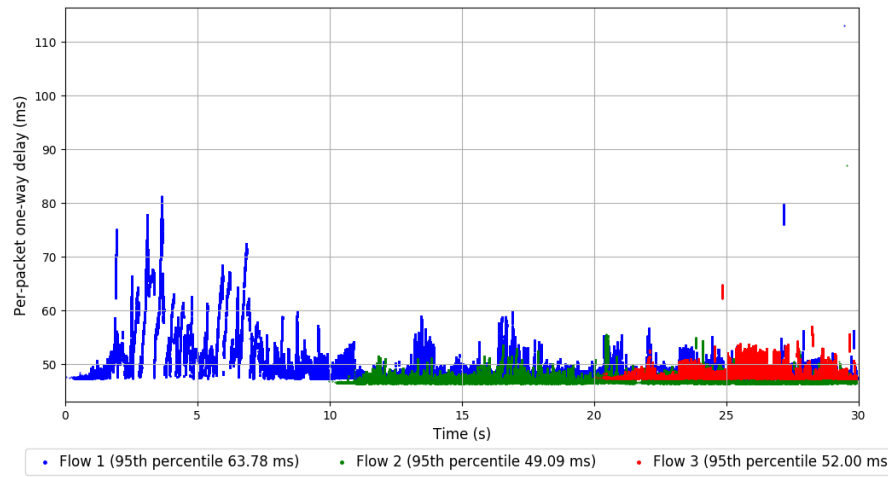
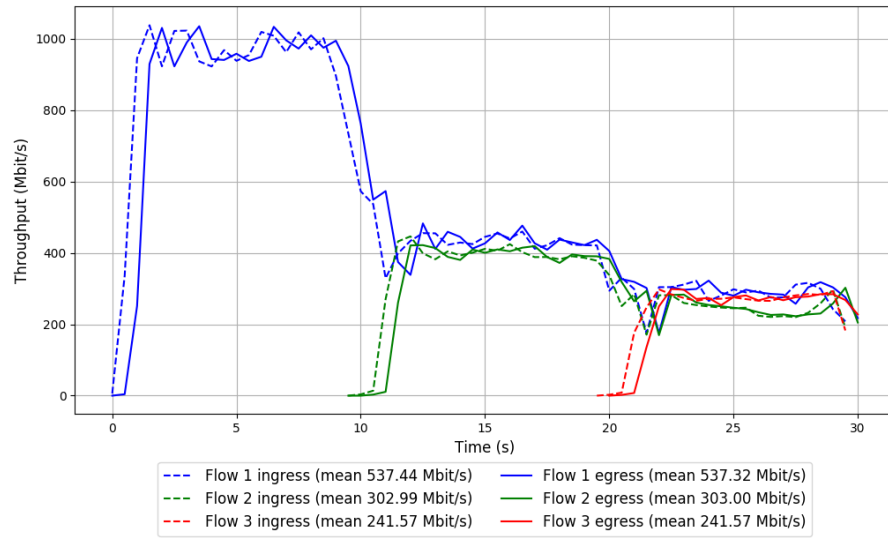


Run 1: Statistics of FillP-Sheep

Start at: 2018-12-20 22:52:48
End at: 2018-12-20 22:53:18
Local clock offset: -0.053 ms
Remote clock offset: -0.125 ms

Below is generated by plot.py at 2018-12-21 02:48:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 819.31 Mbit/s
95th percentile per-packet one-way delay: 61.134 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 537.32 Mbit/s
95th percentile per-packet one-way delay: 63.781 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 303.00 Mbit/s
95th percentile per-packet one-way delay: 49.091 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 241.57 Mbit/s
95th percentile per-packet one-way delay: 52.004 ms
Loss rate: 0.00%

Run 1: Report of FillP-Sheep — Data Link

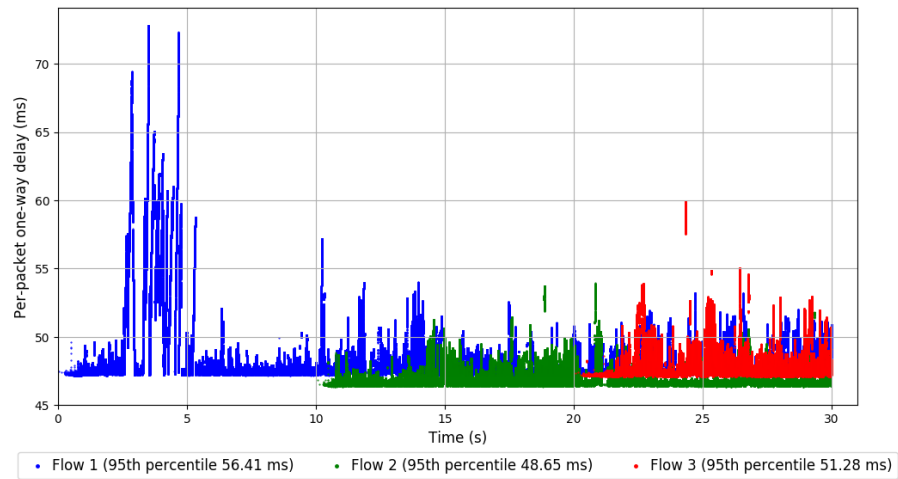
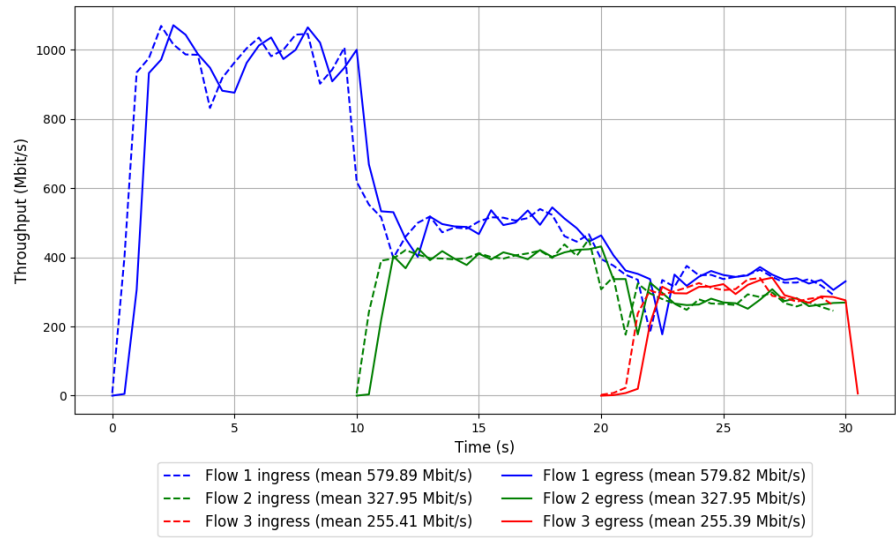


Run 2: Statistics of FillP-Sheep

Start at: 2018-12-20 23:25:33
End at: 2018-12-20 23:26:03
Local clock offset: -0.03 ms
Remote clock offset: -0.115 ms

Below is generated by plot.py at 2018-12-21 02:48:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 882.54 Mbit/s
95th percentile per-packet one-way delay: 53.483 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 579.82 Mbit/s
95th percentile per-packet one-way delay: 56.413 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 327.95 Mbit/s
95th percentile per-packet one-way delay: 48.649 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 255.39 Mbit/s
95th percentile per-packet one-way delay: 51.276 ms
Loss rate: 0.00%

Run 2: Report of FillP-Sheep — Data Link

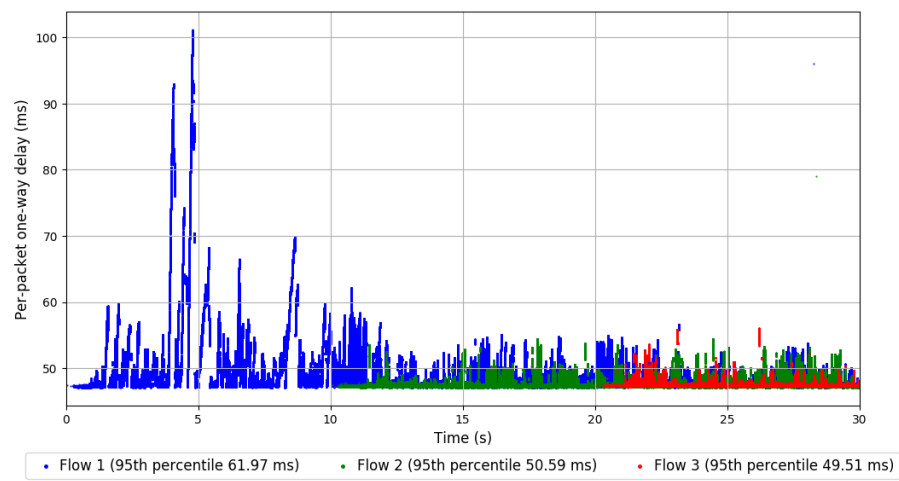
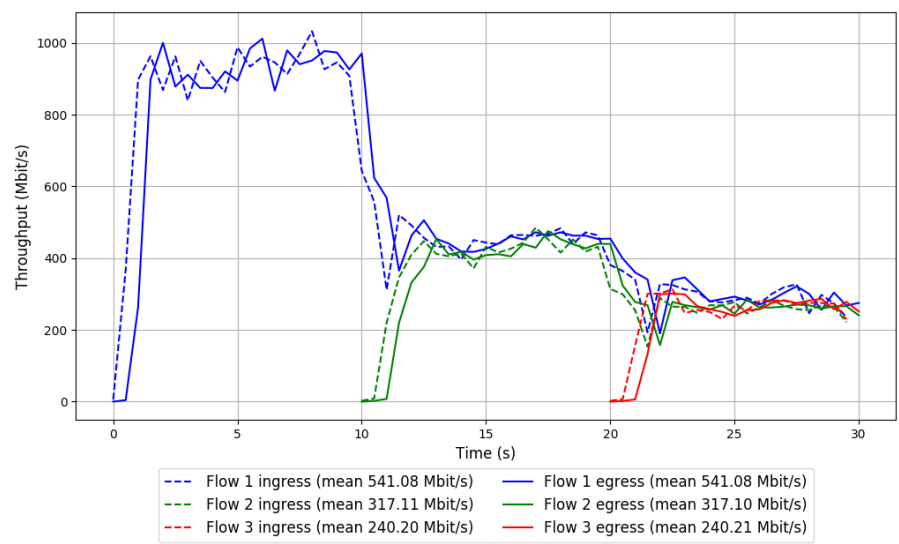


Run 3: Statistics of FillP-Sheep

Start at: 2018-12-20 23:58:25
End at: 2018-12-20 23:58:55
Local clock offset: -0.026 ms
Remote clock offset: -0.093 ms

Below is generated by plot.py at 2018-12-21 02:48:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 831.09 Mbit/s
95th percentile per-packet one-way delay: 58.487 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 541.08 Mbit/s
95th percentile per-packet one-way delay: 61.969 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 317.10 Mbit/s
95th percentile per-packet one-way delay: 50.585 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 240.21 Mbit/s
95th percentile per-packet one-way delay: 49.508 ms
Loss rate: 0.00%

Run 3: Report of FillP-Sheep — Data Link

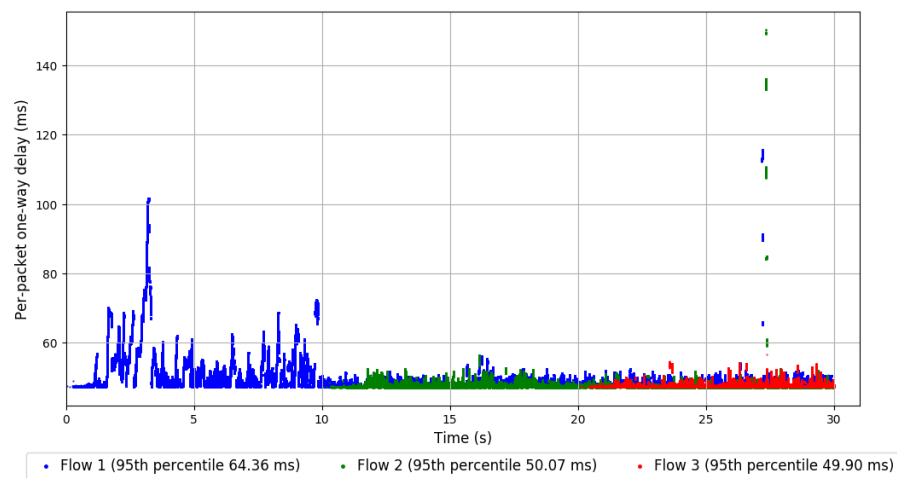
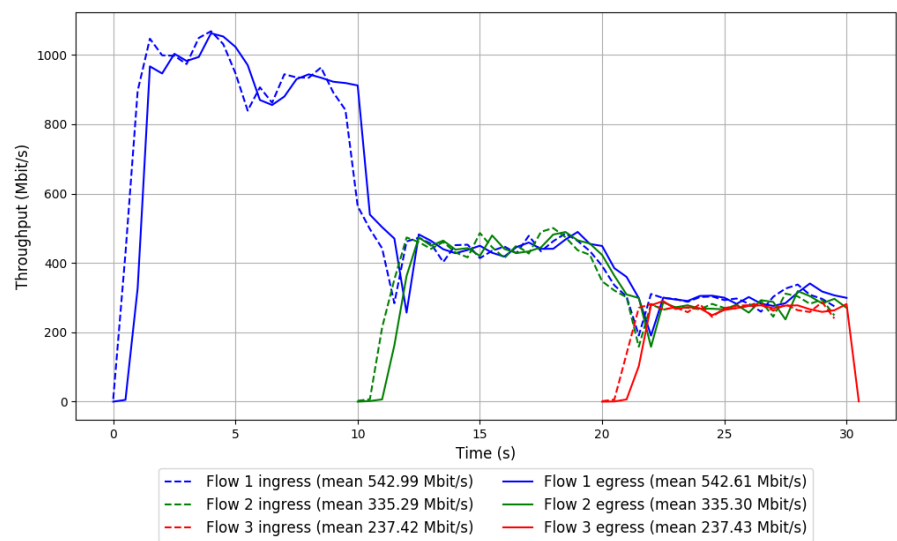


Run 4: Statistics of FillP-Sheep

Start at: 2018-12-21 00:31:37
End at: 2018-12-21 00:32:07
Local clock offset: -0.115 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2018-12-21 02:48:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 844.17 Mbit/s
95th percentile per-packet one-way delay: 59.726 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 542.61 Mbit/s
95th percentile per-packet one-way delay: 64.357 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 335.30 Mbit/s
95th percentile per-packet one-way delay: 50.072 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 237.43 Mbit/s
95th percentile per-packet one-way delay: 49.902 ms
Loss rate: 0.00%

Run 4: Report of FillP-Sheep — Data Link

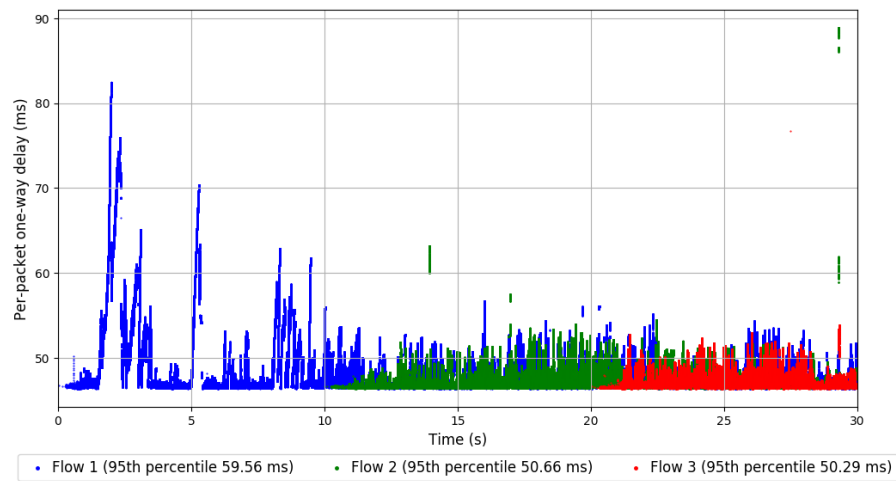
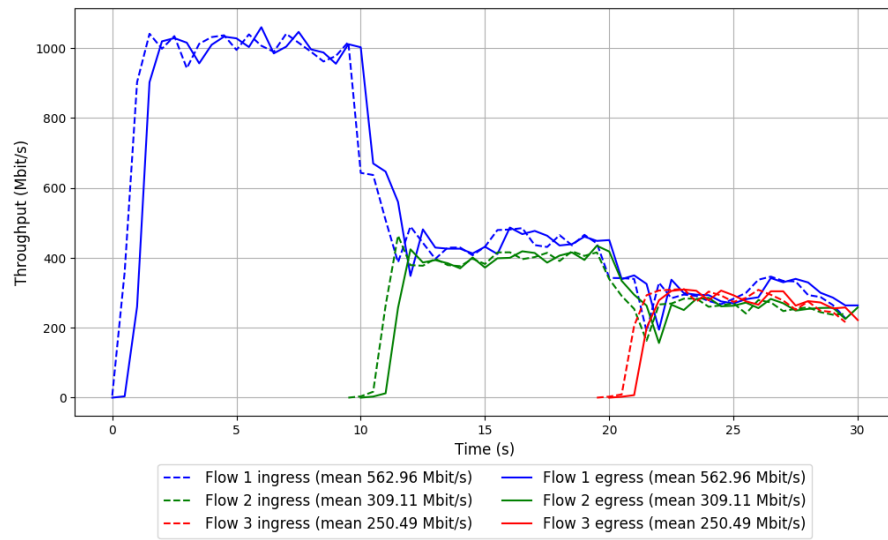


Run 5: Statistics of FillP-Sheep

Start at: 2018-12-21 01:04:48
End at: 2018-12-21 01:05:18
Local clock offset: -0.105 ms
Remote clock offset: -0.052 ms

```
# Below is generated by plot.py at 2018-12-21 03:00:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 852.29 Mbit/s
95th percentile per-packet one-way delay: 56.401 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 562.96 Mbit/s
95th percentile per-packet one-way delay: 59.558 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 309.11 Mbit/s
95th percentile per-packet one-way delay: 50.664 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 250.49 Mbit/s
95th percentile per-packet one-way delay: 50.286 ms
Loss rate: 0.00%
```

Run 5: Report of FillP-Sheep — Data Link

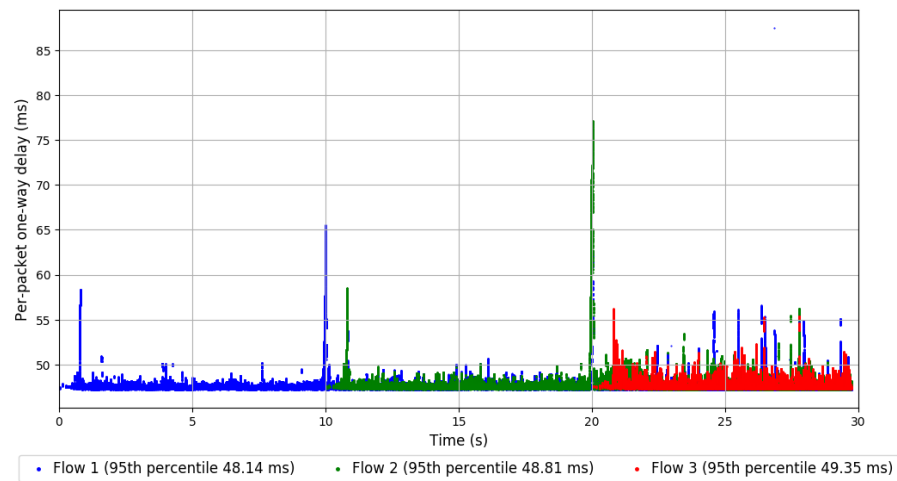
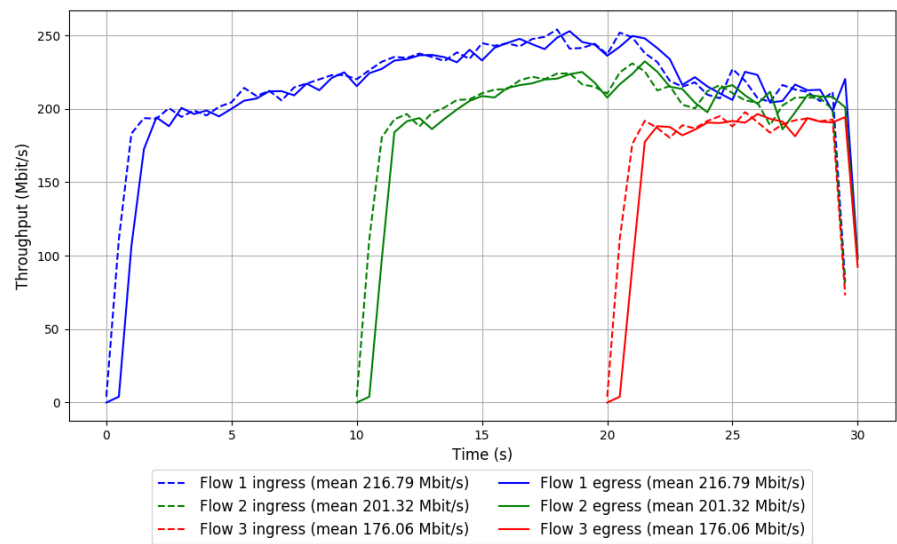


Run 1: Statistics of Indigo

Start at: 2018-12-20 22:59:46
End at: 2018-12-20 23:00:16
Local clock offset: -0.013 ms
Remote clock offset: -0.089 ms

Below is generated by plot.py at 2018-12-21 03:00:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 407.61 Mbit/s
95th percentile per-packet one-way delay: 48.643 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 216.79 Mbit/s
95th percentile per-packet one-way delay: 48.140 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 201.32 Mbit/s
95th percentile per-packet one-way delay: 48.812 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 176.06 Mbit/s
95th percentile per-packet one-way delay: 49.353 ms
Loss rate: 0.00%

Run 1: Report of Indigo — Data Link

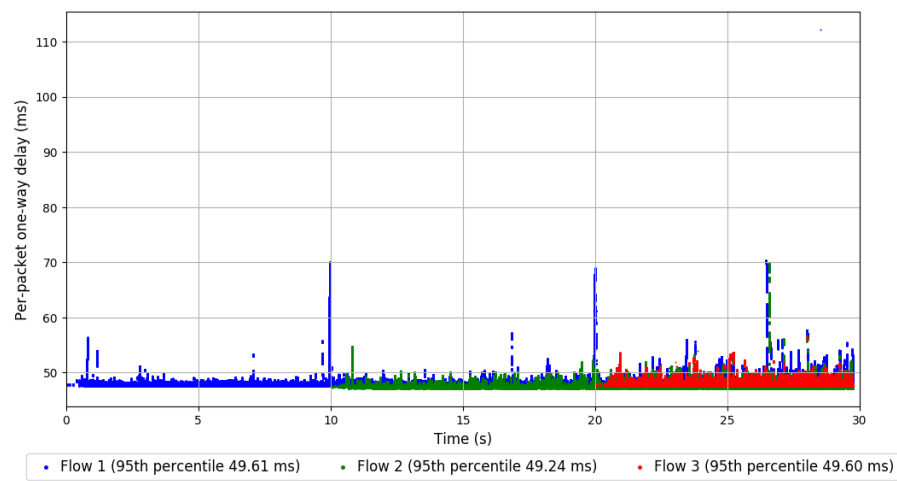
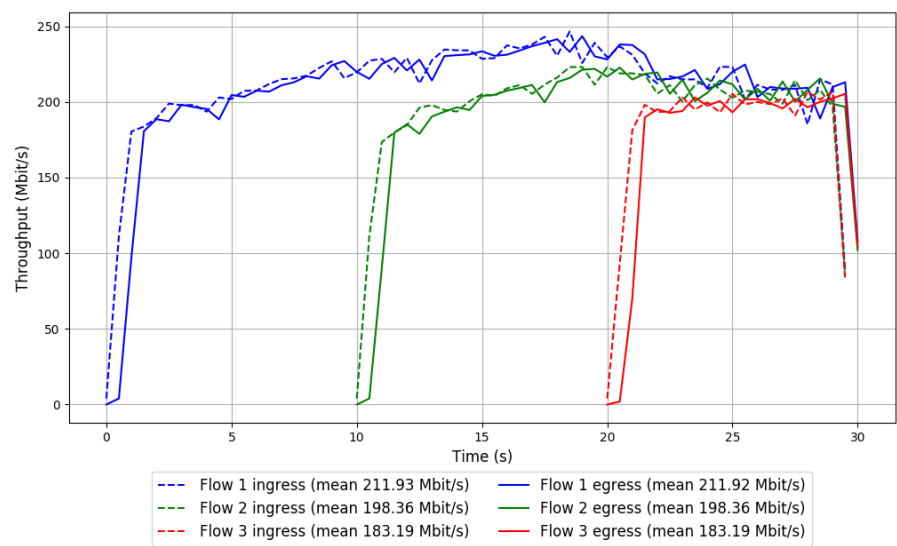


Run 2: Statistics of Indigo

Start at: 2018-12-20 23:32:41
End at: 2018-12-20 23:33:11
Local clock offset: -0.057 ms
Remote clock offset: -0.065 ms

Below is generated by plot.py at 2018-12-21 03:00:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 403.10 Mbit/s
95th percentile per-packet one-way delay: 49.467 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 211.92 Mbit/s
95th percentile per-packet one-way delay: 49.614 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 198.36 Mbit/s
95th percentile per-packet one-way delay: 49.237 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 183.19 Mbit/s
95th percentile per-packet one-way delay: 49.604 ms
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

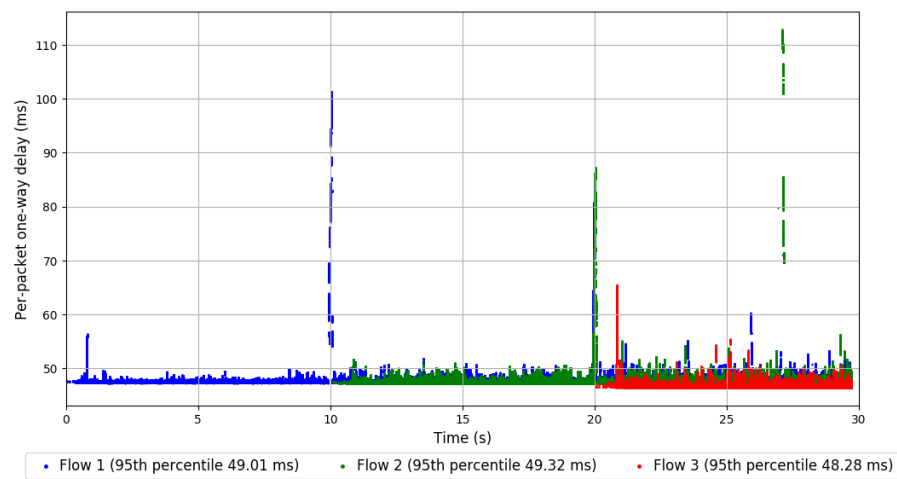
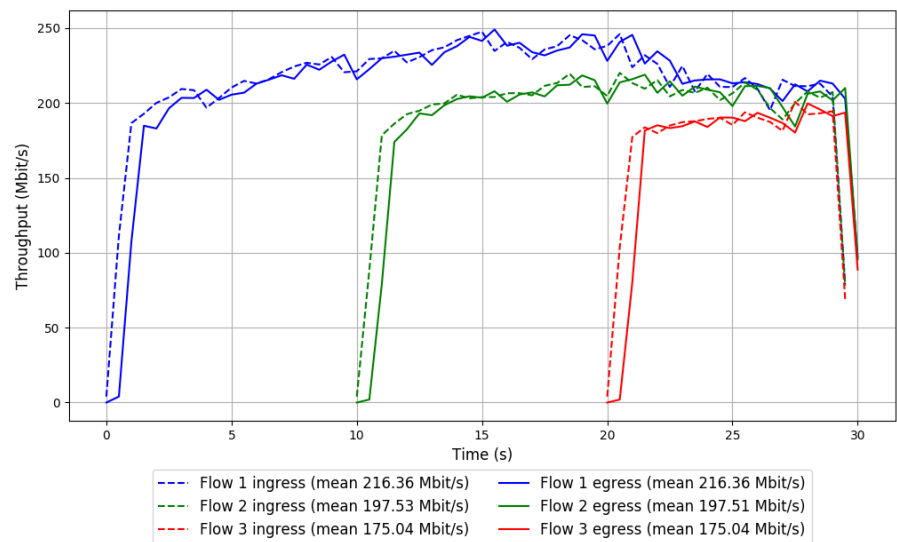


Run 3: Statistics of Indigo

Start at: 2018-12-21 00:05:28
End at: 2018-12-21 00:05:58
Local clock offset: -0.054 ms
Remote clock offset: -0.084 ms

```
# Below is generated by plot.py at 2018-12-21 03:00:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 403.77 Mbit/s
95th percentile per-packet one-way delay: 49.056 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 216.36 Mbit/s
95th percentile per-packet one-way delay: 49.005 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 197.51 Mbit/s
95th percentile per-packet one-way delay: 49.322 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 175.04 Mbit/s
95th percentile per-packet one-way delay: 48.285 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo — Data Link

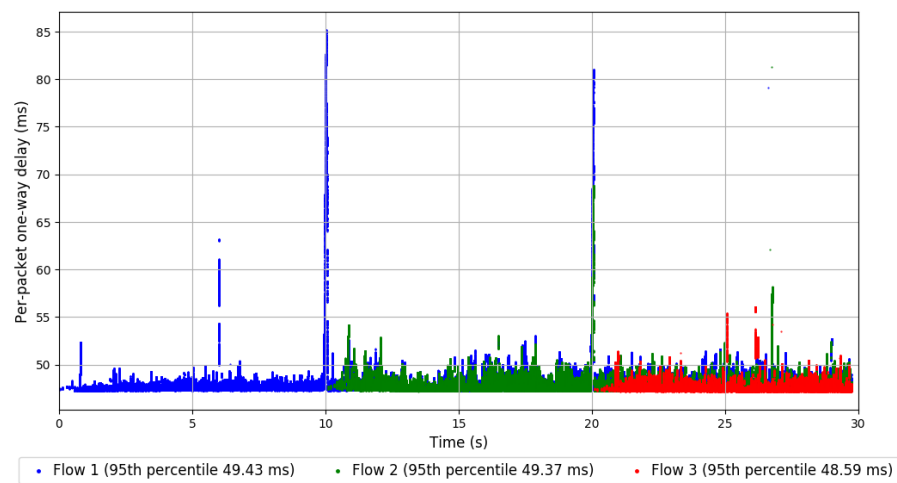
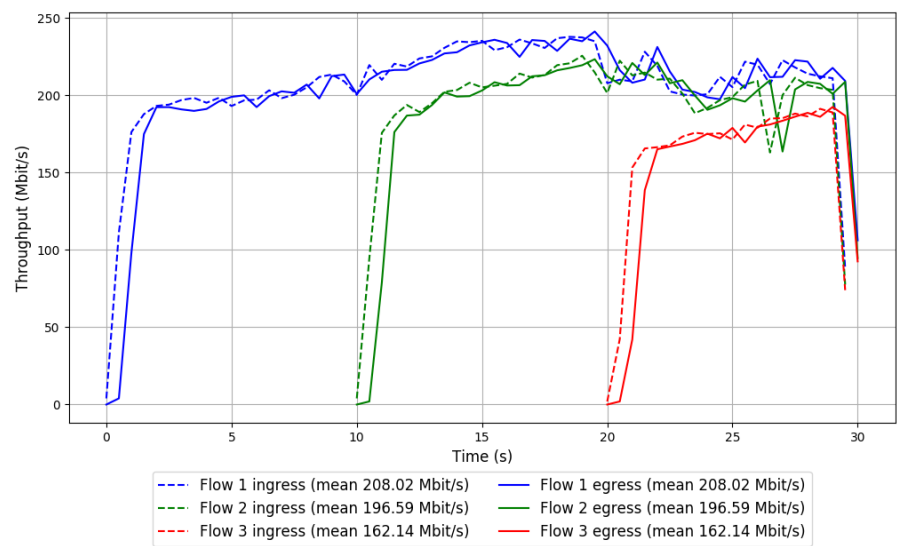


Run 4: Statistics of Indigo

Start at: 2018-12-21 00:38:43
End at: 2018-12-21 00:39:13
Local clock offset: -0.149 ms
Remote clock offset: -0.098 ms

```
# Below is generated by plot.py at 2018-12-21 03:01:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 390.71 Mbit/s
95th percentile per-packet one-way delay: 49.327 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 208.02 Mbit/s
95th percentile per-packet one-way delay: 49.429 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 196.59 Mbit/s
95th percentile per-packet one-way delay: 49.369 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 162.14 Mbit/s
95th percentile per-packet one-way delay: 48.587 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo — Data Link

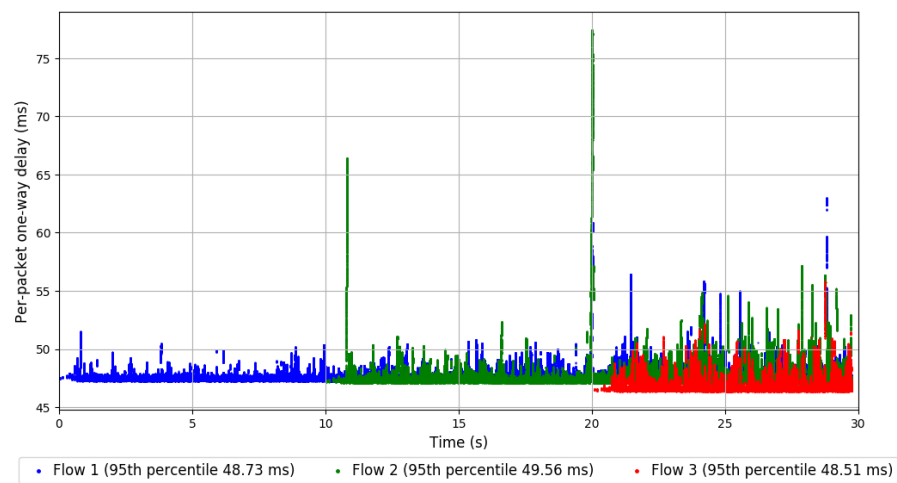
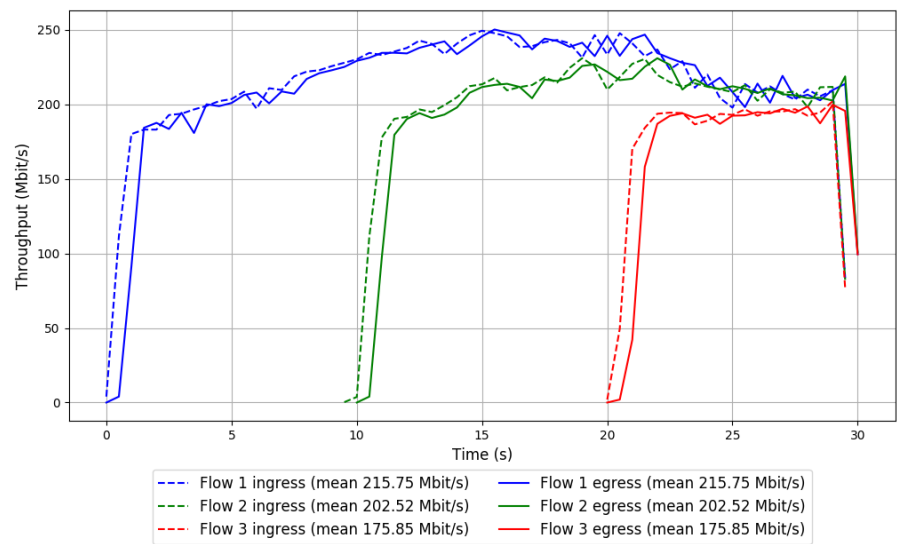


Run 5: Statistics of Indigo

Start at: 2018-12-21 01:11:46
End at: 2018-12-21 01:12:16
Local clock offset: -0.105 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-12-21 03:01:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 407.18 Mbit/s
95th percentile per-packet one-way delay: 48.948 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 215.75 Mbit/s
95th percentile per-packet one-way delay: 48.735 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 202.52 Mbit/s
95th percentile per-packet one-way delay: 49.563 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 175.85 Mbit/s
95th percentile per-packet one-way delay: 48.506 ms
Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2018-12-20 23:02:52

End at: 2018-12-20 23:03:22

Local clock offset: -0.024 ms

Remote clock offset: -0.13 ms

Below is generated by plot.py at 2018-12-21 03:08:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 1112.53 Mbit/s

95th percentile per-packet one-way delay: 61.086 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 593.19 Mbit/s

95th percentile per-packet one-way delay: 61.739 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 542.88 Mbit/s

95th percentile per-packet one-way delay: 61.628 ms

Loss rate: 0.03%

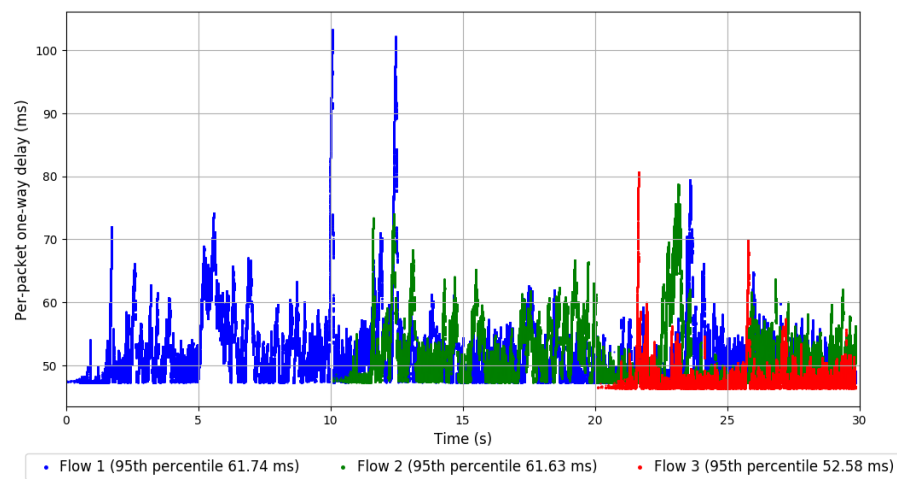
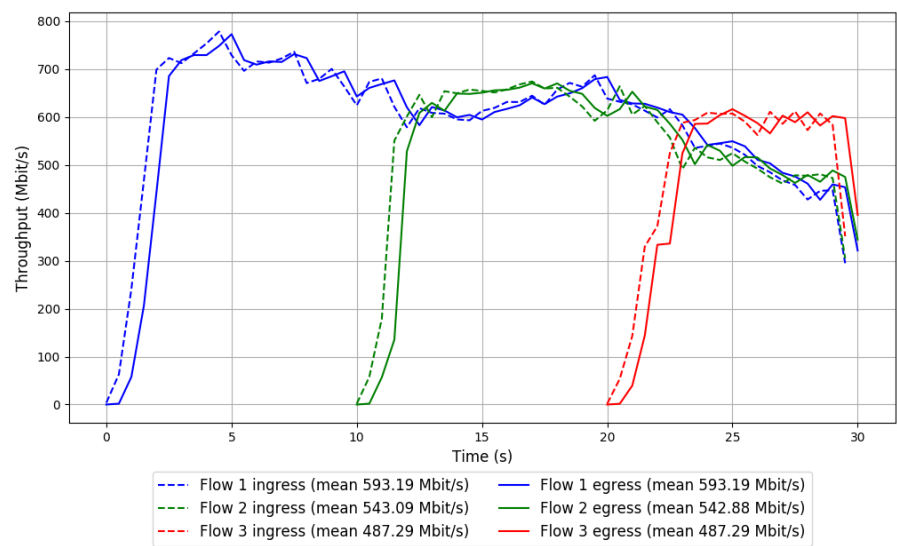
-- Flow 3:

Average throughput: 487.29 Mbit/s

95th percentile per-packet one-way delay: 52.578 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesD — Data Link

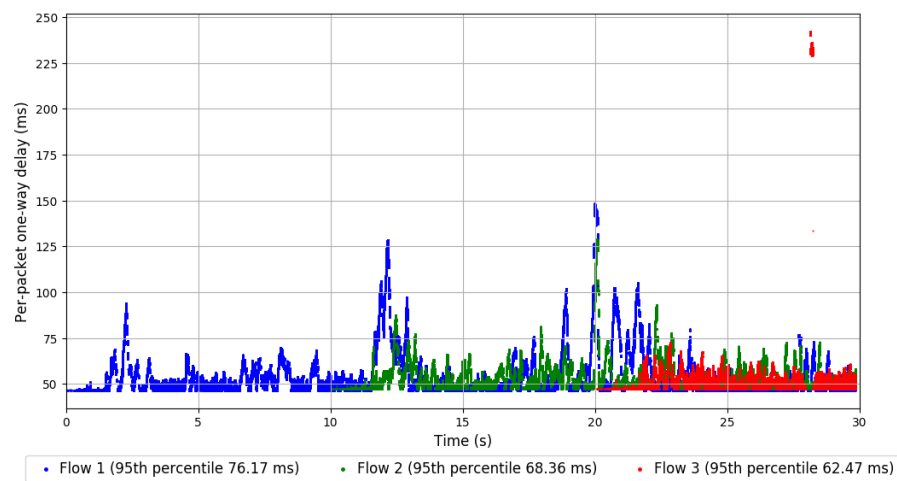
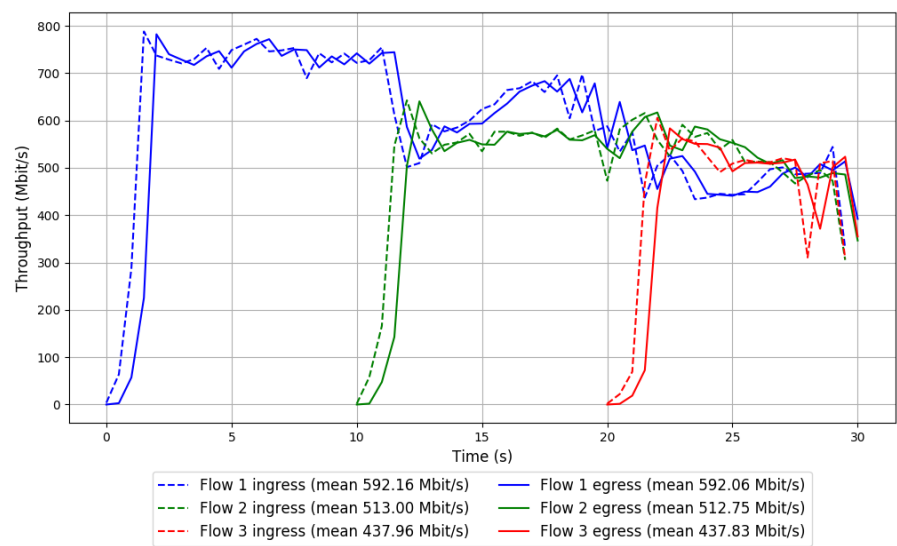


Run 2: Statistics of Indigo-MusesD

Start at: 2018-12-20 23:35:46
End at: 2018-12-20 23:36:16
Local clock offset: -0.08 ms
Remote clock offset: -0.139 ms

Below is generated by plot.py at 2018-12-21 03:08:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 1075.99 Mbit/s
95th percentile per-packet one-way delay: 71.580 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 592.06 Mbit/s
95th percentile per-packet one-way delay: 76.172 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 512.75 Mbit/s
95th percentile per-packet one-way delay: 68.361 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 437.83 Mbit/s
95th percentile per-packet one-way delay: 62.471 ms
Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link

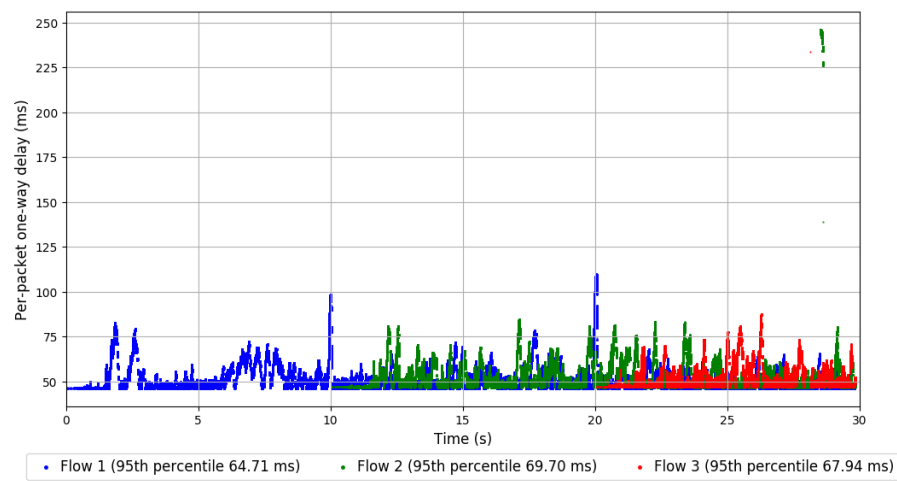
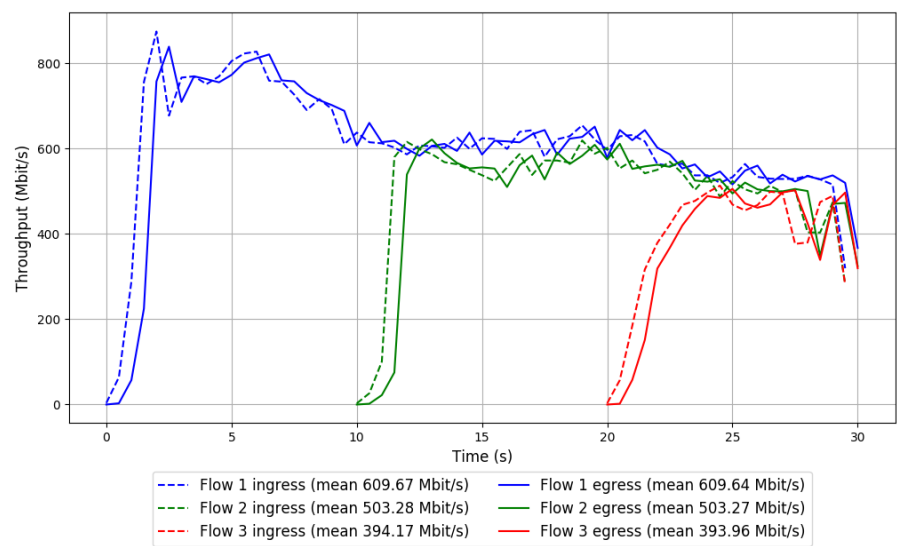


Run 3: Statistics of Indigo-MusesD

Start at: 2018-12-21 00:08:34
End at: 2018-12-21 00:09:04
Local clock offset: 0.316 ms
Remote clock offset: -0.089 ms

Below is generated by plot.py at 2018-12-21 03:19:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 1072.93 Mbit/s
95th percentile per-packet one-way delay: 66.708 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 609.64 Mbit/s
95th percentile per-packet one-way delay: 64.714 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 503.27 Mbit/s
95th percentile per-packet one-way delay: 69.699 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 393.96 Mbit/s
95th percentile per-packet one-way delay: 67.941 ms
Loss rate: 0.01%

Run 3: Report of Indigo-MusesD — Data Link

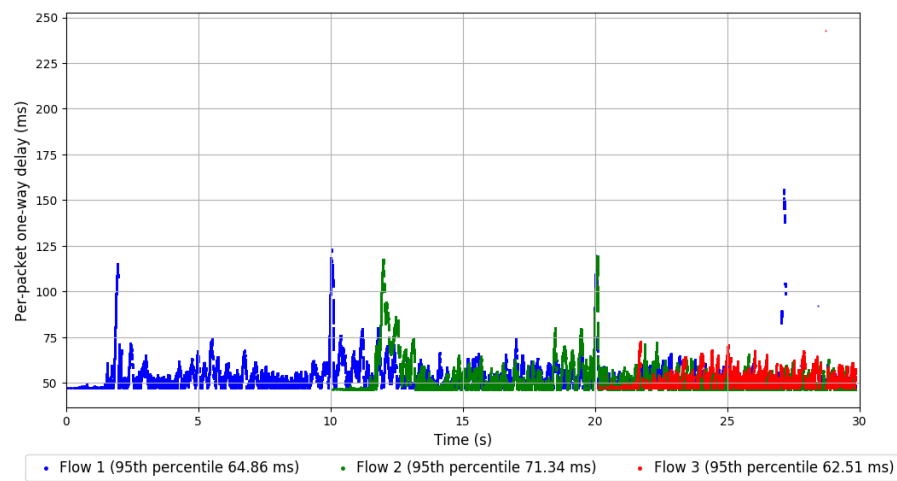
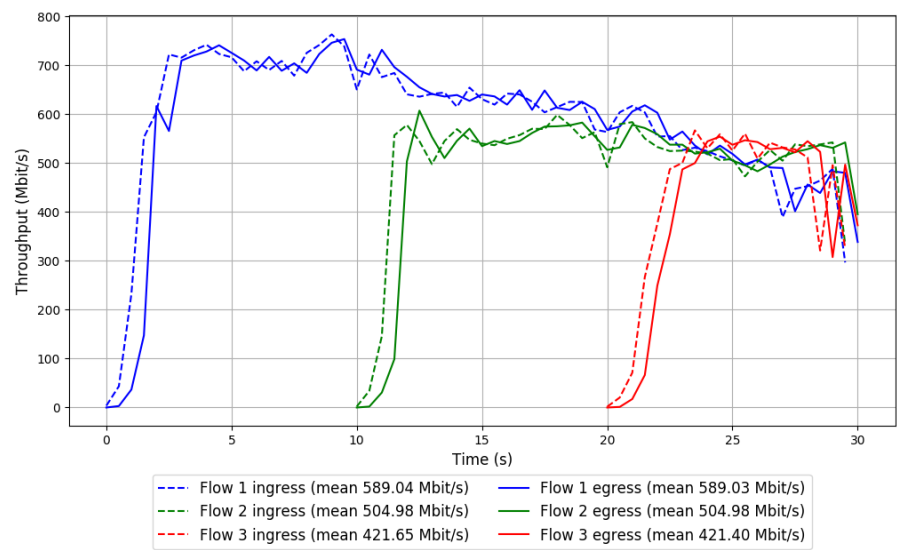


Run 4: Statistics of Indigo-MusesD

Start at: 2018-12-21 00:41:48
End at: 2018-12-21 00:42:18
Local clock offset: -0.143 ms
Remote clock offset: -0.105 ms

Below is generated by plot.py at 2018-12-21 03:21:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 1061.94 Mbit/s
95th percentile per-packet one-way delay: 66.106 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 589.03 Mbit/s
95th percentile per-packet one-way delay: 64.864 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 504.98 Mbit/s
95th percentile per-packet one-way delay: 71.339 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 421.40 Mbit/s
95th percentile per-packet one-way delay: 62.508 ms
Loss rate: 0.04%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2018-12-21 01:14:54

End at: 2018-12-21 01:15:24

Local clock offset: -0.155 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-12-21 03:22:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 1077.03 Mbit/s

95th percentile per-packet one-way delay: 66.189 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 590.29 Mbit/s

95th percentile per-packet one-way delay: 67.164 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 510.00 Mbit/s

95th percentile per-packet one-way delay: 63.815 ms

Loss rate: 0.01%

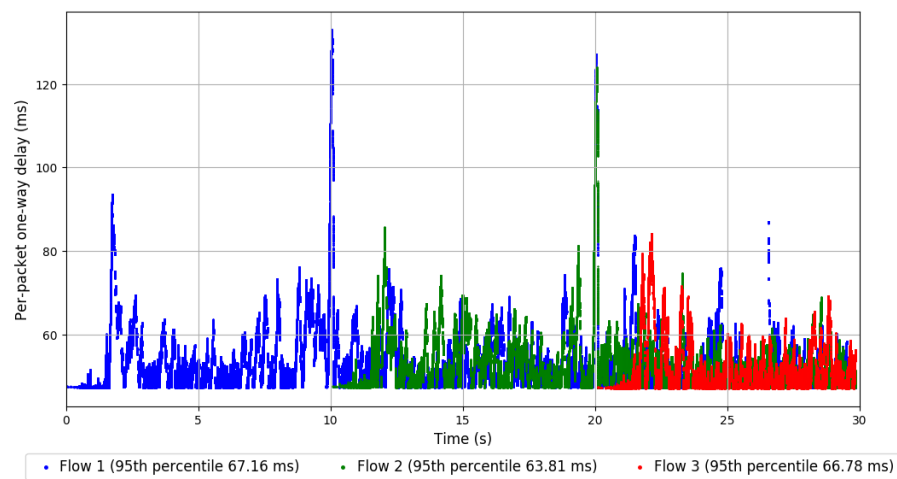
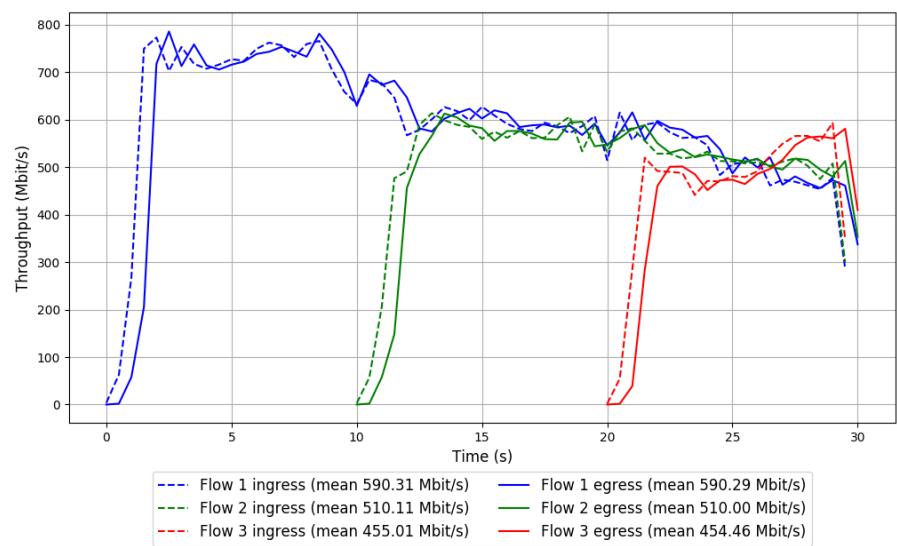
-- Flow 3:

Average throughput: 454.46 Mbit/s

95th percentile per-packet one-way delay: 66.783 ms

Loss rate: 0.09%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

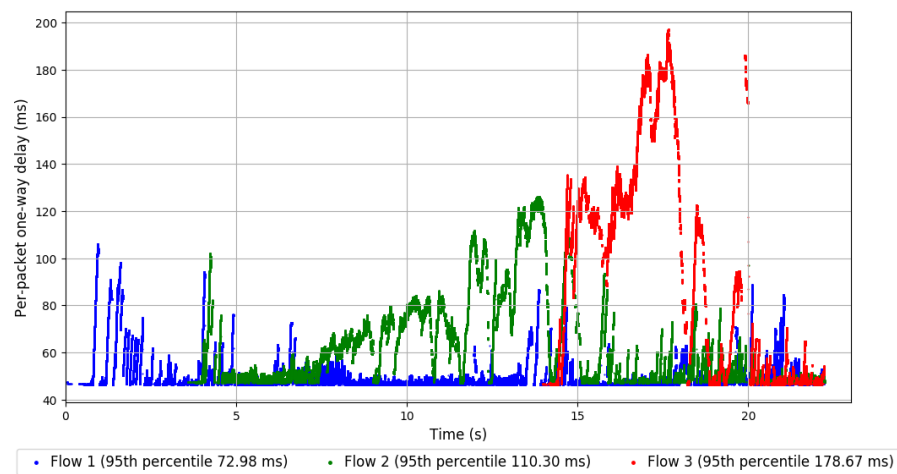
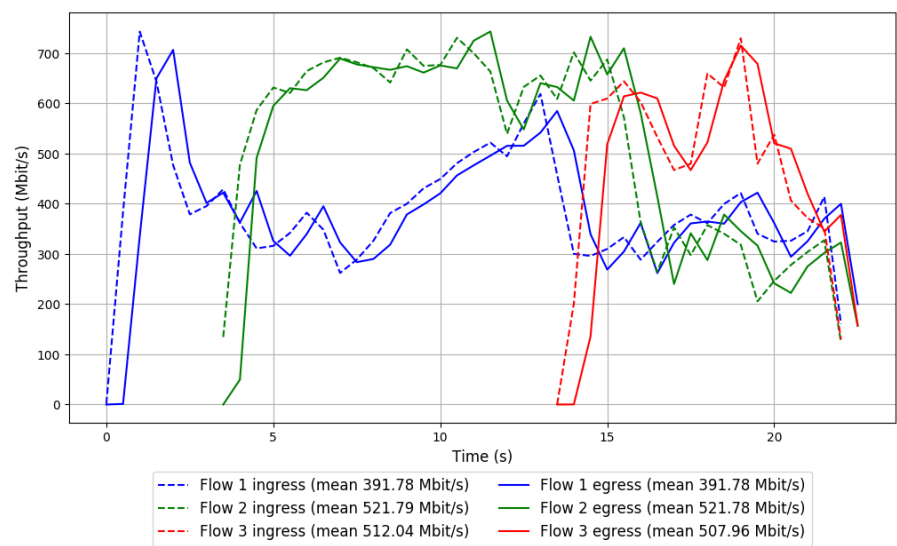
Start at: 2018-12-20 22:44:21

End at: 2018-12-20 22:44:51

Local clock offset: -0.103 ms

Remote clock offset: -0.1 ms

Run 1: Report of Indigo-MusesT — Data Link

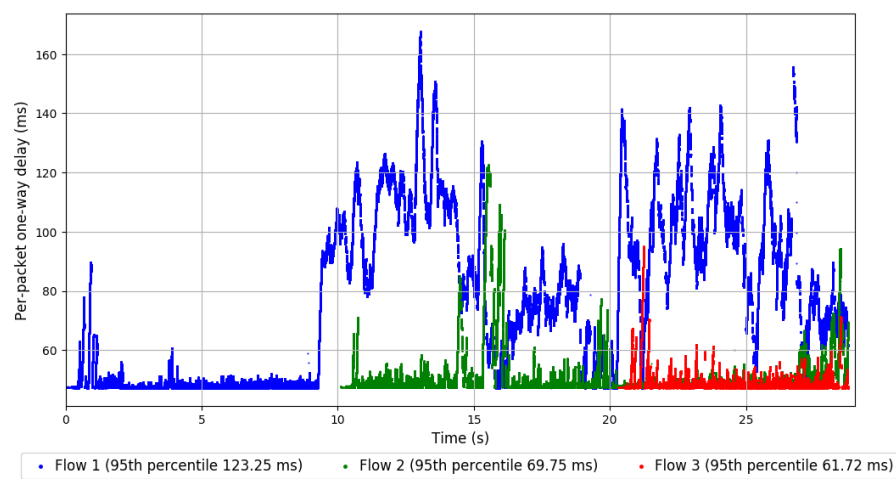
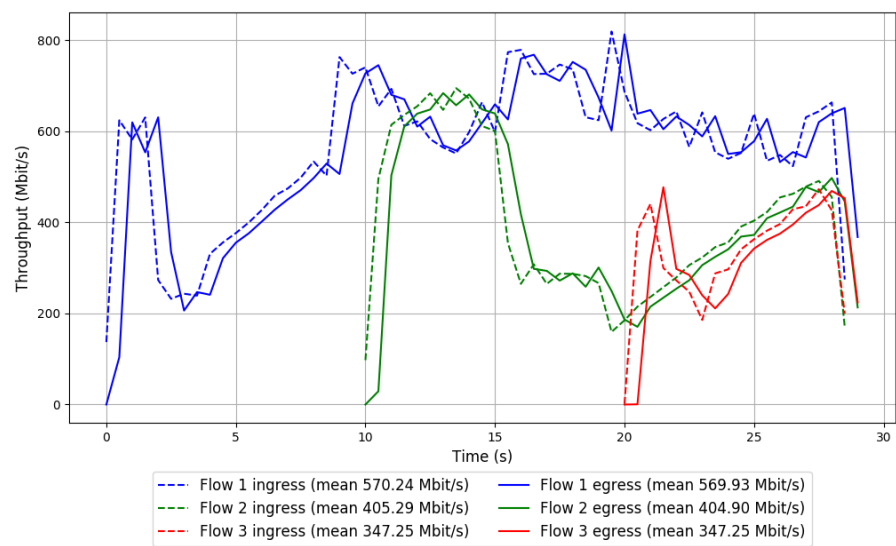


Run 2: Statistics of Indigo-MusesT

Start at: 2018-12-20 23:17:03
End at: 2018-12-20 23:17:33
Local clock offset: -0.037 ms
Remote clock offset: -0.111 ms

Below is generated by plot.py at 2018-12-21 03:22:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 935.02 Mbit/s
95th percentile per-packet one-way delay: 118.734 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 569.93 Mbit/s
95th percentile per-packet one-way delay: 123.254 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 404.90 Mbit/s
95th percentile per-packet one-way delay: 69.751 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 347.25 Mbit/s
95th percentile per-packet one-way delay: 61.720 ms
Loss rate: 0.00%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2018-12-20 23:49:48

End at: 2018-12-20 23:50:18

Local clock offset: -0.051 ms

Remote clock offset: -0.11 ms

Below is generated by plot.py at 2018-12-21 03:22:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 1022.99 Mbit/s

95th percentile per-packet one-way delay: 123.048 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 647.26 Mbit/s

95th percentile per-packet one-way delay: 127.359 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 446.05 Mbit/s

95th percentile per-packet one-way delay: 105.877 ms

Loss rate: 0.39%

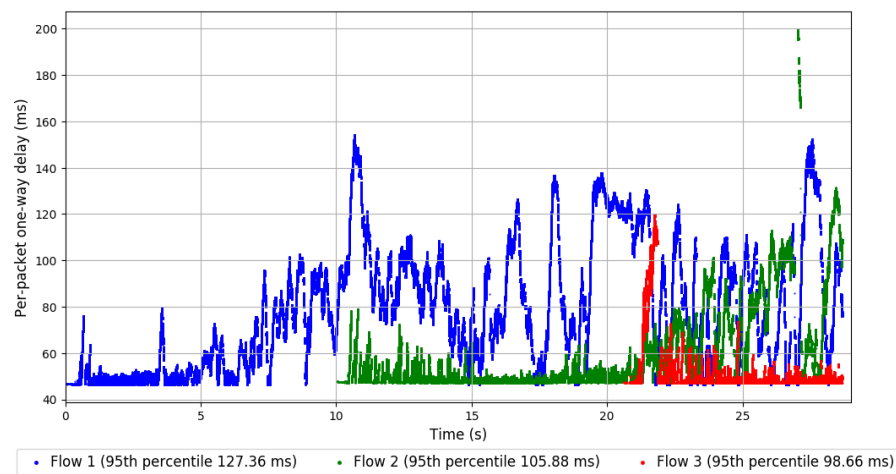
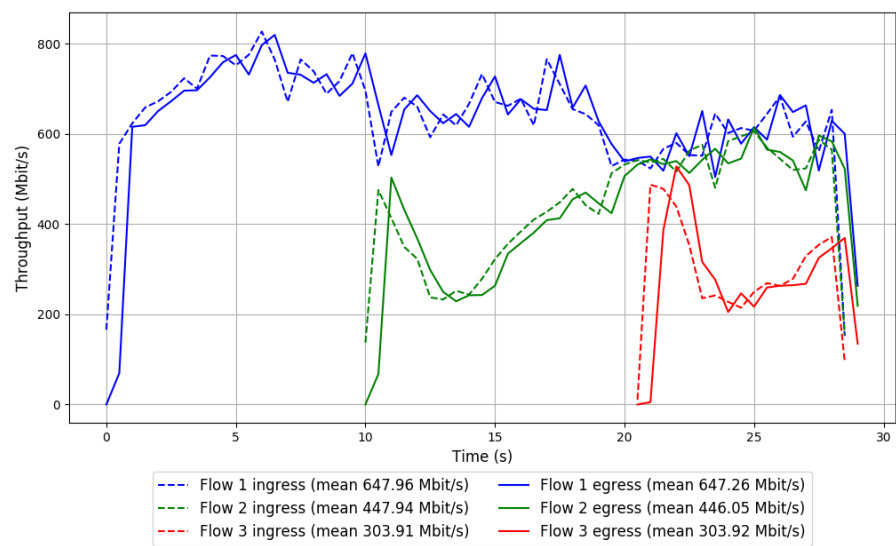
-- Flow 3:

Average throughput: 303.92 Mbit/s

95th percentile per-packet one-way delay: 98.659 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesT — Data Link

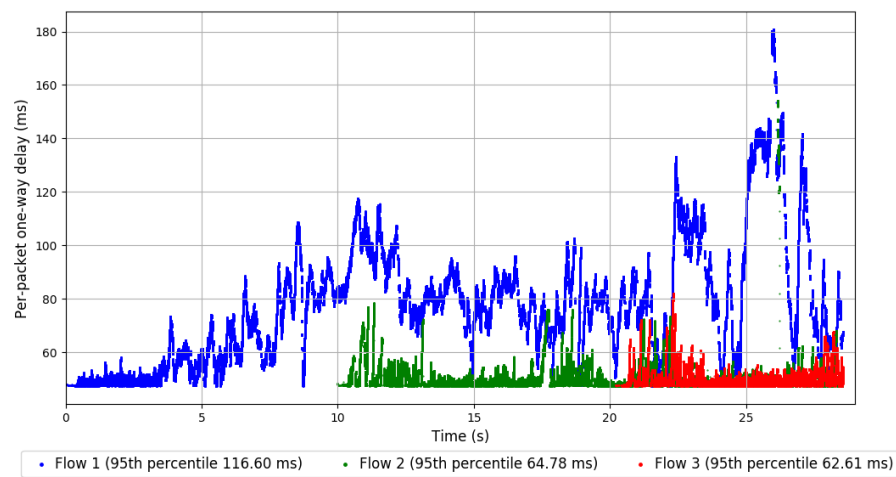
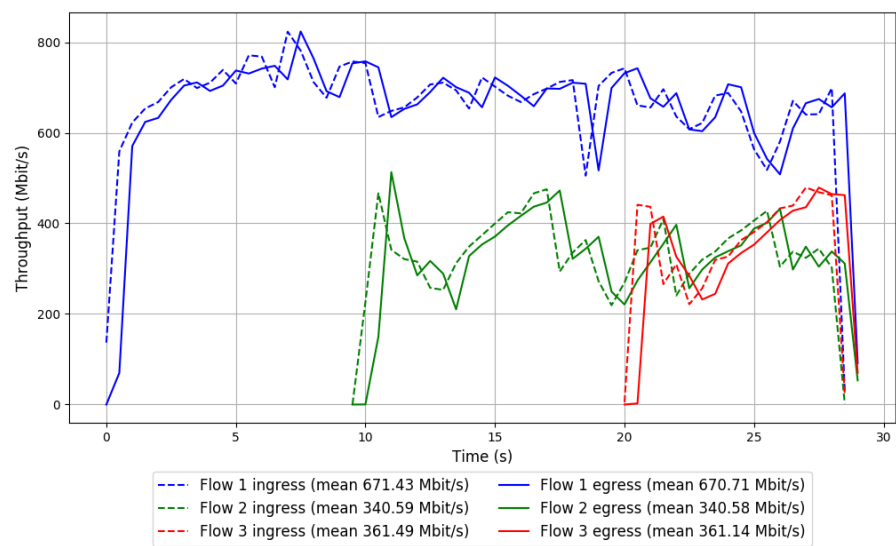


Run 4: Statistics of Indigo-MusesT

Start at: 2018-12-21 00:23:03
End at: 2018-12-21 00:23:33
Local clock offset: -0.094 ms
Remote clock offset: -0.092 ms

Below is generated by plot.py at 2018-12-21 03:28:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 998.05 Mbit/s
95th percentile per-packet one-way delay: 110.488 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 670.71 Mbit/s
95th percentile per-packet one-way delay: 116.599 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 340.58 Mbit/s
95th percentile per-packet one-way delay: 64.781 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 361.14 Mbit/s
95th percentile per-packet one-way delay: 62.610 ms
Loss rate: 0.11%

Run 4: Report of Indigo-MusesT — Data Link

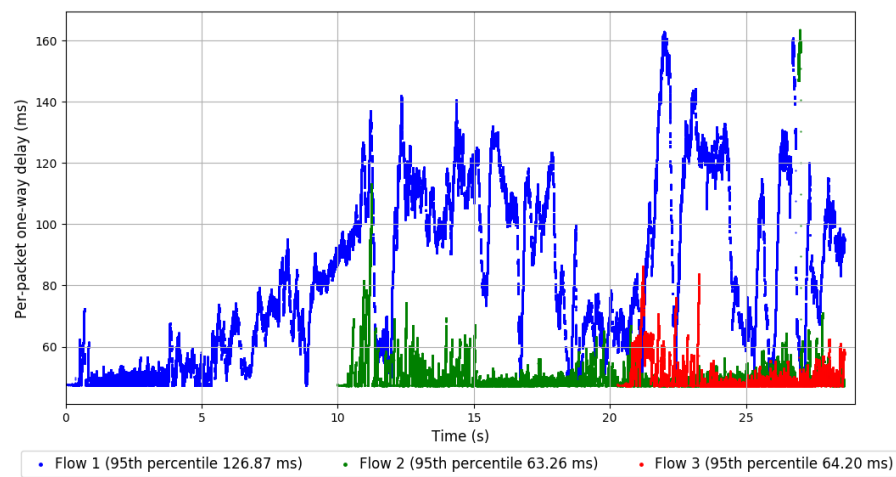
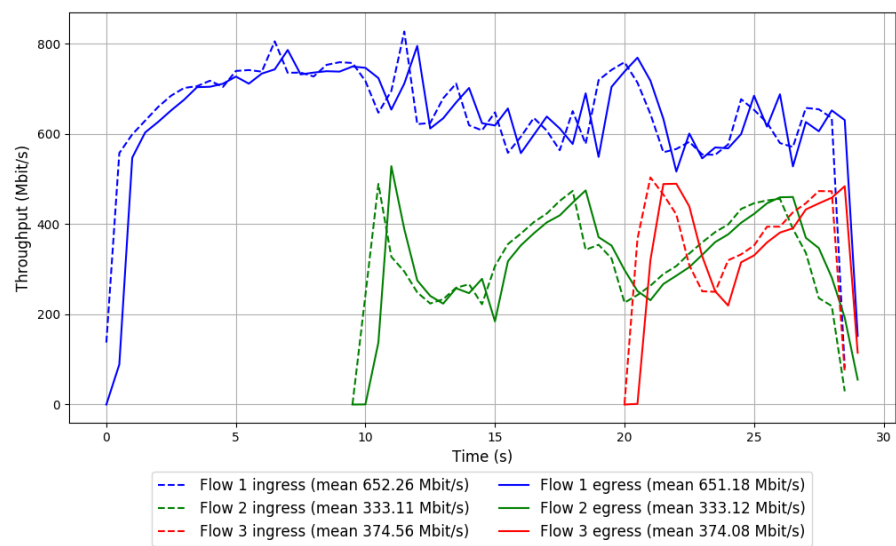


Run 5: Statistics of Indigo-MusesT

Start at: 2018-12-21 00:56:14
End at: 2018-12-21 00:56:44
Local clock offset: -0.096 ms
Remote clock offset: -0.042 ms

Below is generated by plot.py at 2018-12-21 03:28:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 977.90 Mbit/s
95th percentile per-packet one-way delay: 123.765 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 651.18 Mbit/s
95th percentile per-packet one-way delay: 126.872 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 333.12 Mbit/s
95th percentile per-packet one-way delay: 63.255 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 374.08 Mbit/s
95th percentile per-packet one-way delay: 64.205 ms
Loss rate: 0.01%

Run 5: Report of Indigo-MusesT — Data Link

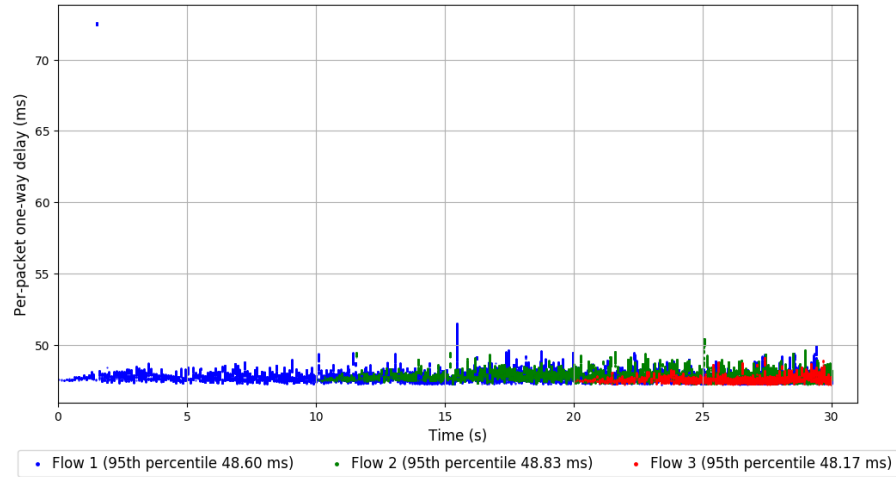
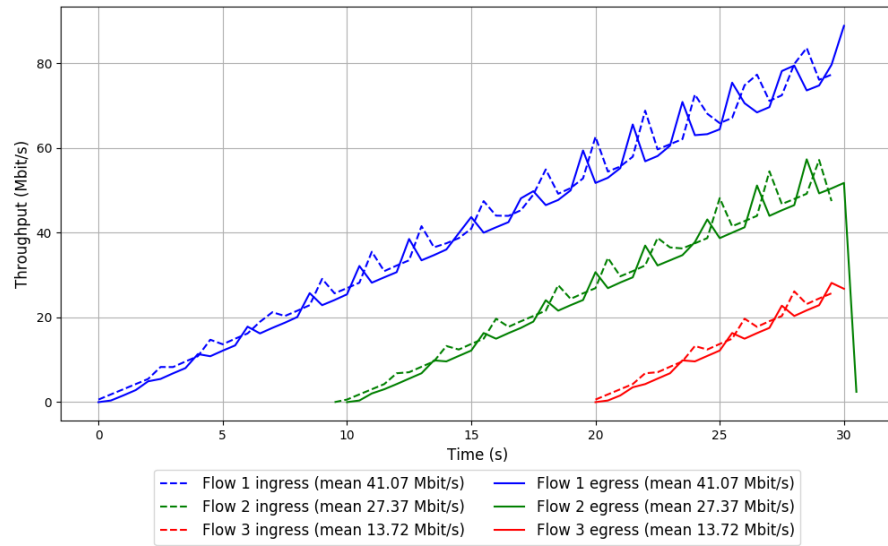



```
Run 1: Statistics of LEDBAT

Start at: 2018-12-20 23:01:34
End at: 2018-12-20 23:02:04
Local clock offset: 0.002 ms
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2018-12-21 03:28:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.81 Mbit/s
95th percentile per-packet one-way delay: 48.662 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.07 Mbit/s
95th percentile per-packet one-way delay: 48.596 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 27.37 Mbit/s
95th percentile per-packet one-way delay: 48.828 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 13.72 Mbit/s
95th percentile per-packet one-way delay: 48.166 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

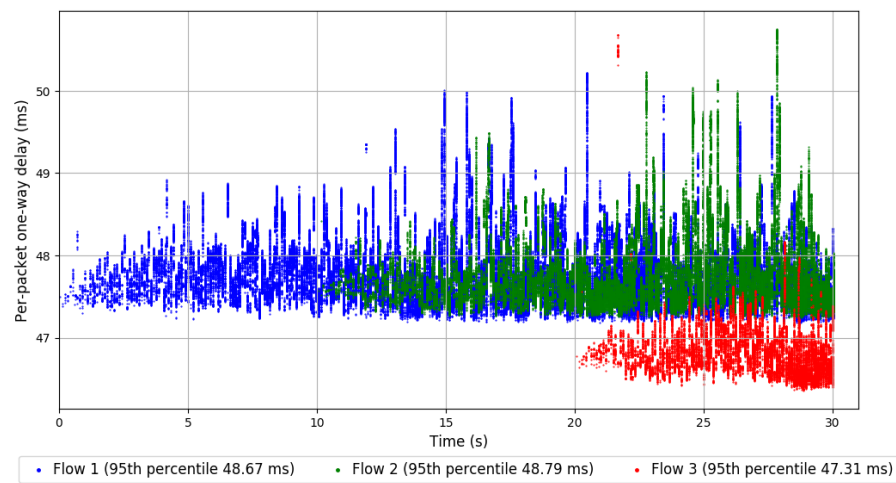
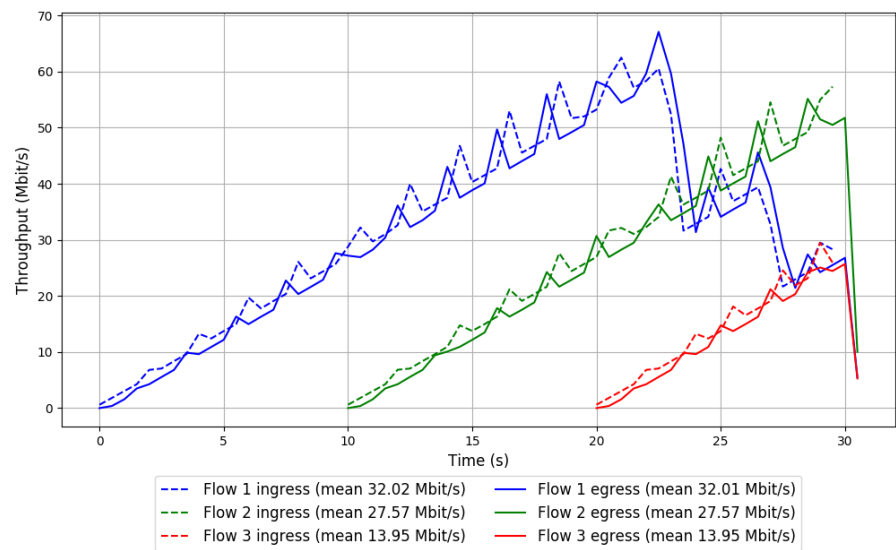


Run 2: Statistics of LEDBAT

Start at: 2018-12-20 23:34:29
End at: 2018-12-20 23:34:59
Local clock offset: -0.025 ms
Remote clock offset: -0.127 ms

Below is generated by plot.py at 2018-12-21 03:28:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 55.01 Mbit/s
95th percentile per-packet one-way delay: 48.673 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.01 Mbit/s
95th percentile per-packet one-way delay: 48.668 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 27.57 Mbit/s
95th percentile per-packet one-way delay: 48.793 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 13.95 Mbit/s
95th percentile per-packet one-way delay: 47.313 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

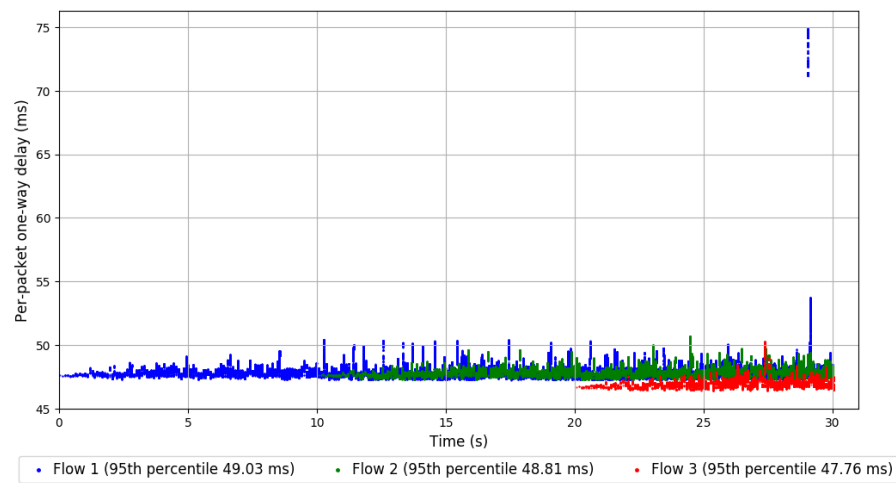
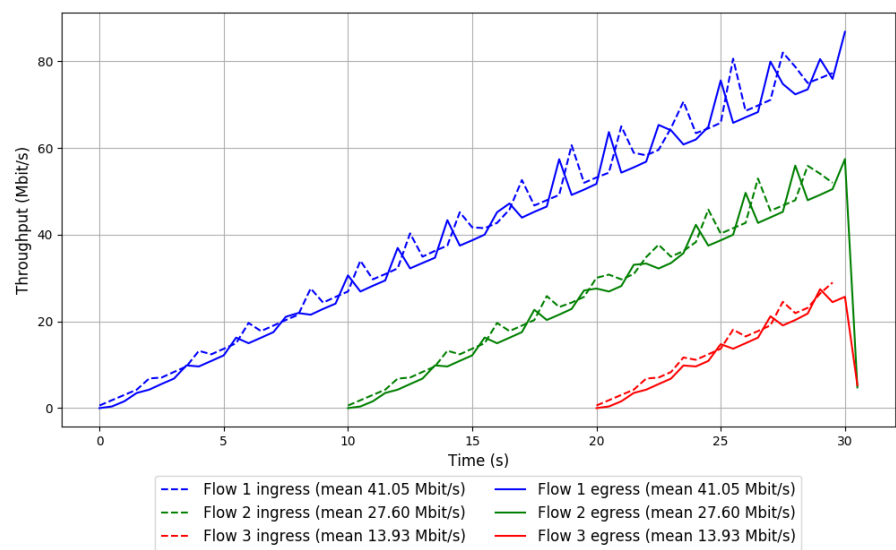


Run 3: Statistics of LEDBAT

Start at: 2018-12-21 00:07:16
End at: 2018-12-21 00:07:46
Local clock offset: -0.021 ms
Remote clock offset: -0.085 ms

Below is generated by plot.py at 2018-12-21 03:28:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.01 Mbit/s
95th percentile per-packet one-way delay: 48.915 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.05 Mbit/s
95th percentile per-packet one-way delay: 49.034 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 27.60 Mbit/s
95th percentile per-packet one-way delay: 48.808 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 13.93 Mbit/s
95th percentile per-packet one-way delay: 47.759 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

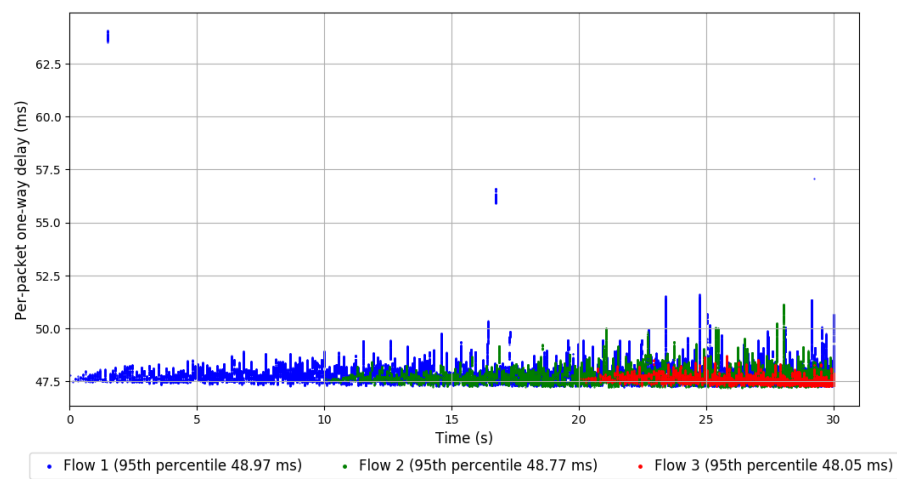
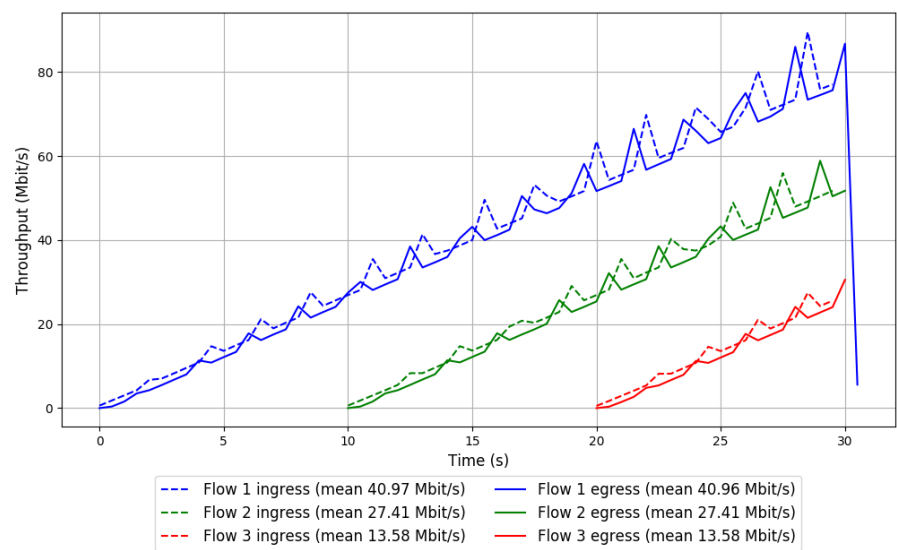


Run 4: Statistics of LEDBAT

Start at: 2018-12-21 00:40:30
End at: 2018-12-21 00:41:00
Local clock offset: -0.171 ms
Remote clock offset: -0.104 ms

Below is generated by plot.py at 2018-12-21 03:28:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.66 Mbit/s
95th percentile per-packet one-way delay: 48.868 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.96 Mbit/s
95th percentile per-packet one-way delay: 48.968 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 27.41 Mbit/s
95th percentile per-packet one-way delay: 48.767 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 13.58 Mbit/s
95th percentile per-packet one-way delay: 48.054 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

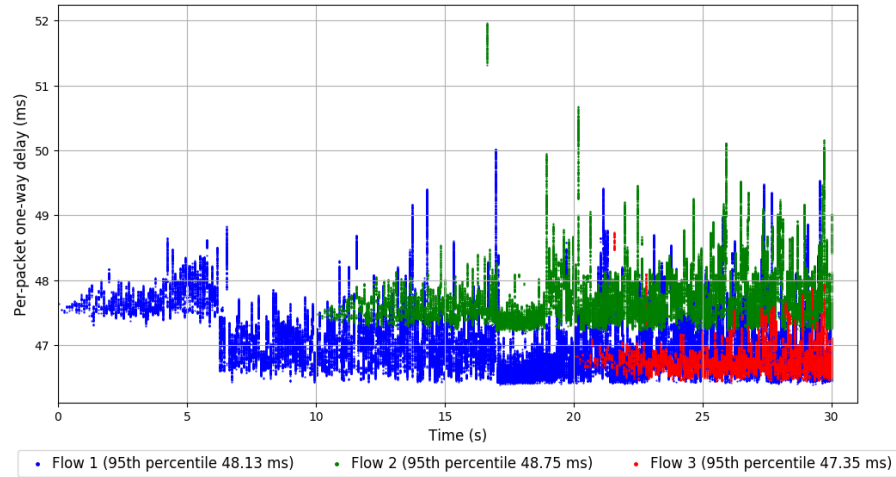
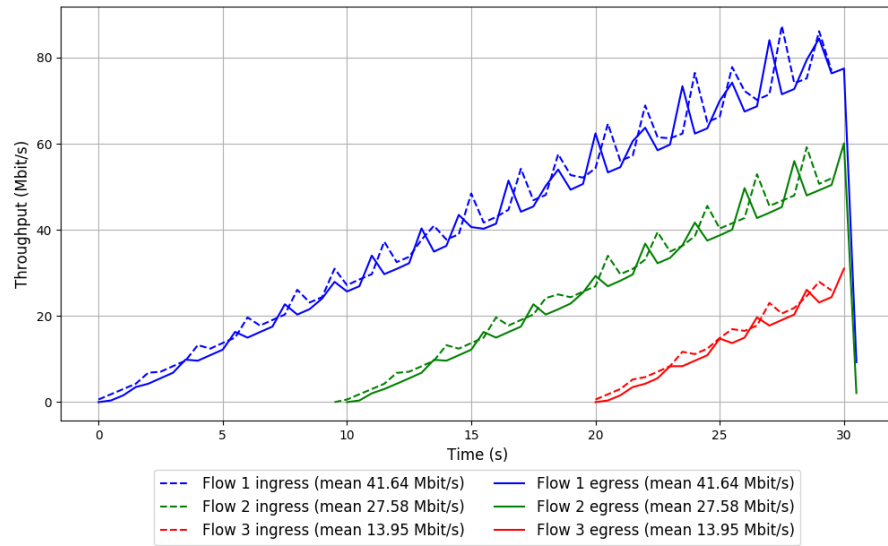


Run 5: Statistics of LEDBAT

Start at: 2018-12-21 01:13:36
End at: 2018-12-21 01:14:06
Local clock offset: -0.119 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-12-21 03:28:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.63 Mbit/s
95th percentile per-packet one-way delay: 48.364 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.64 Mbit/s
95th percentile per-packet one-way delay: 48.130 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 27.58 Mbit/s
95th percentile per-packet one-way delay: 48.750 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 13.95 Mbit/s
95th percentile per-packet one-way delay: 47.355 ms
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

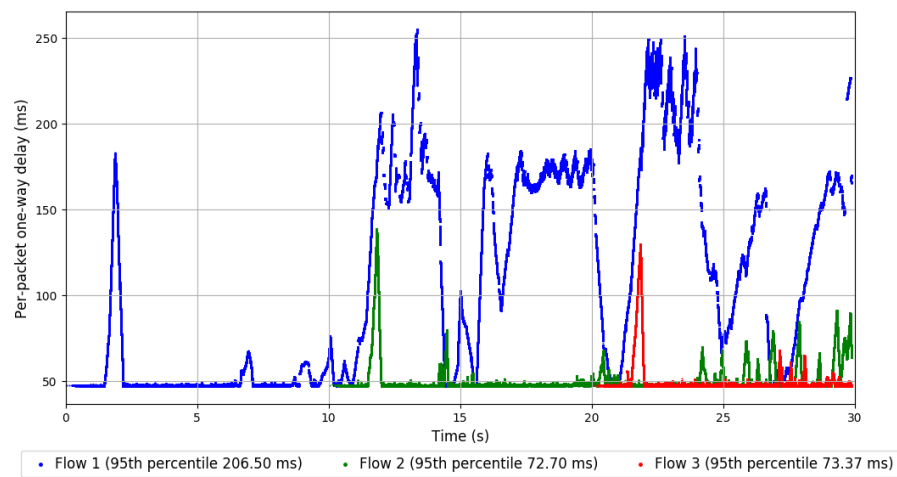
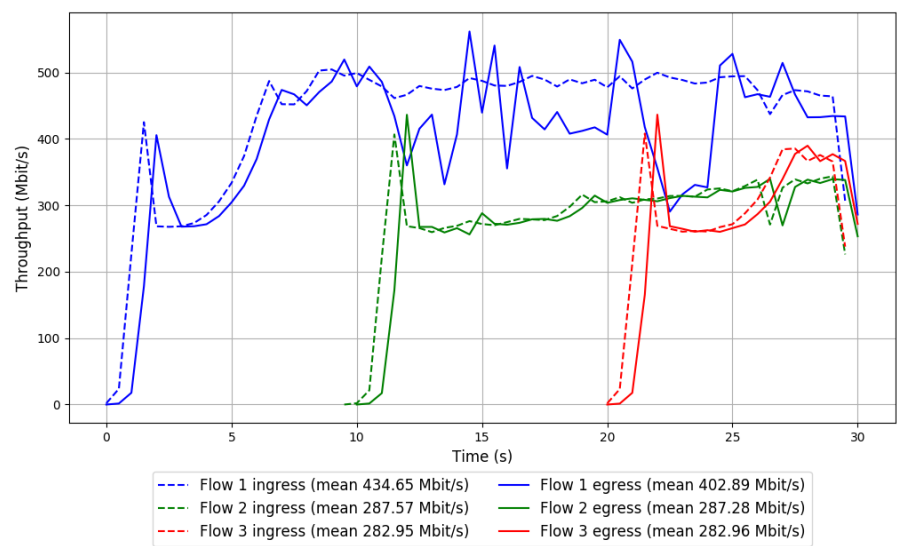


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-12-20 23:13:55
End at: 2018-12-20 23:14:25
Local clock offset: 0.001 ms
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2018-12-21 03:48:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 687.07 Mbit/s
95th percentile per-packet one-way delay: 184.679 ms
Loss rate: 4.44%
-- Flow 1:
Average throughput: 402.89 Mbit/s
95th percentile per-packet one-way delay: 206.497 ms
Loss rate: 7.30%
-- Flow 2:
Average throughput: 287.28 Mbit/s
95th percentile per-packet one-way delay: 72.697 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 282.96 Mbit/s
95th percentile per-packet one-way delay: 73.371 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Allegro — Data Link

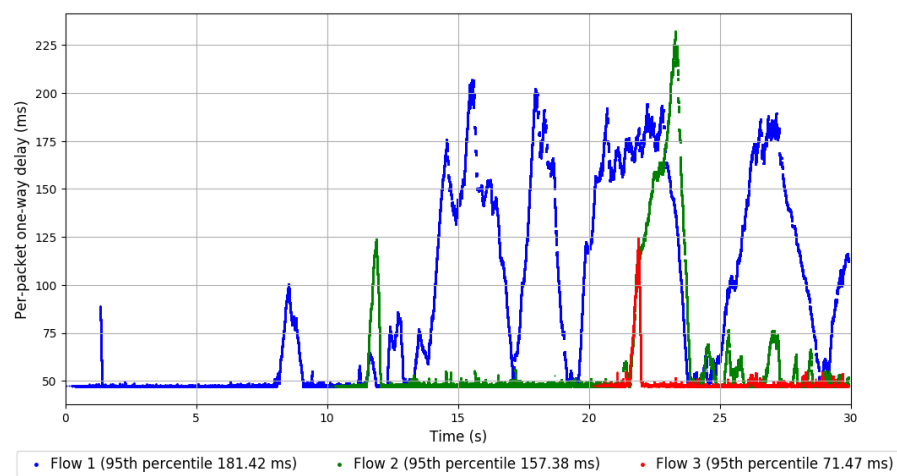
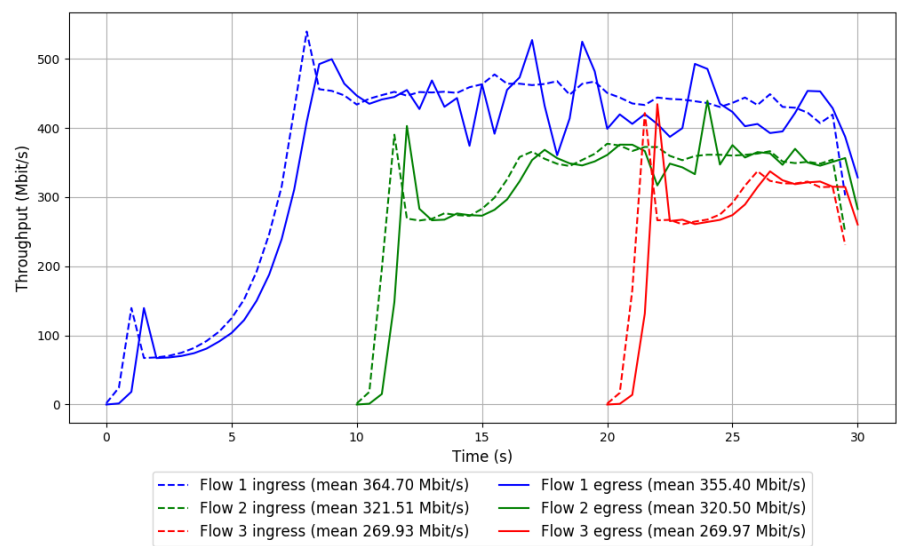


Run 2: Statistics of PCC-Allegro

Start at: 2018-12-20 23:46:44
End at: 2018-12-20 23:47:14
Local clock offset: -0.06 ms
Remote clock offset: -0.142 ms

Below is generated by plot.py at 2018-12-21 03:48:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 656.83 Mbit/s
95th percentile per-packet one-way delay: 176.897 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 355.40 Mbit/s
95th percentile per-packet one-way delay: 181.422 ms
Loss rate: 2.55%
-- Flow 2:
Average throughput: 320.50 Mbit/s
95th percentile per-packet one-way delay: 157.385 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 269.97 Mbit/s
95th percentile per-packet one-way delay: 71.468 ms
Loss rate: 0.00%

Run 2: Report of PCC-Allegro — Data Link

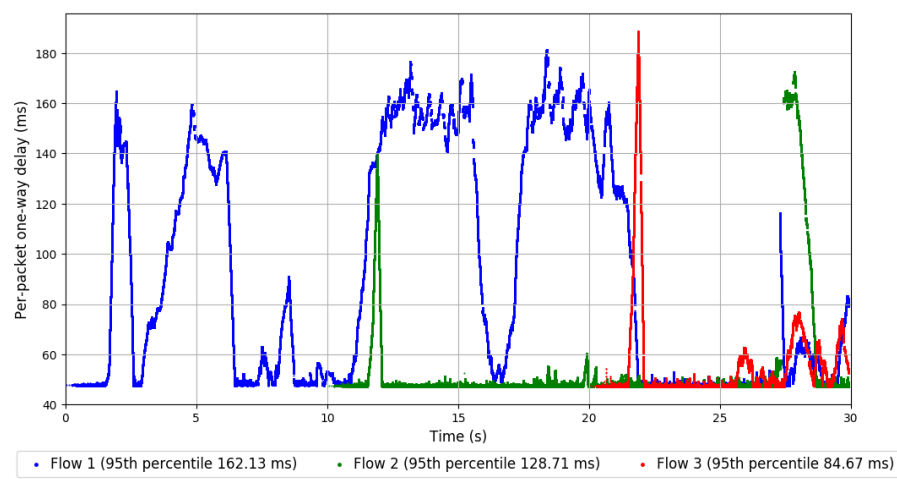
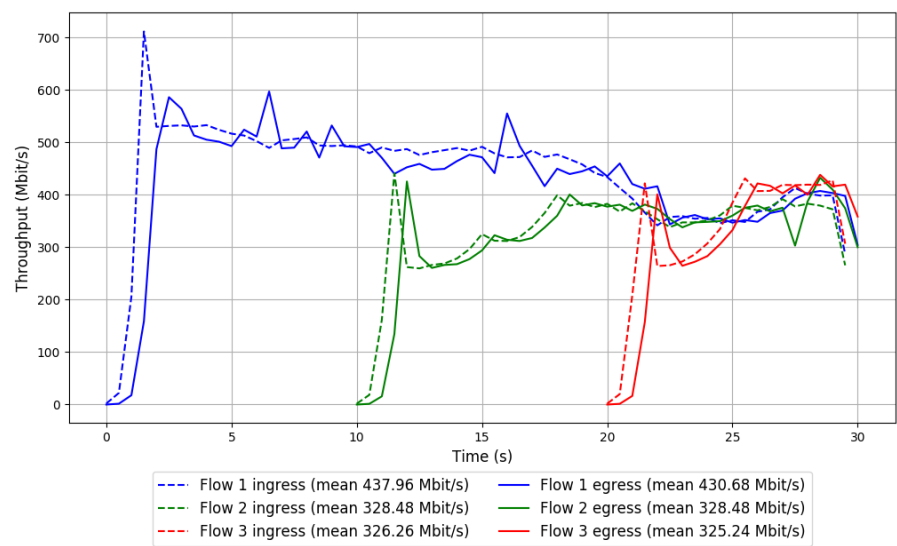


Run 3: Statistics of PCC-Allegro

Start at: 2018-12-21 00:19:50
End at: 2018-12-21 00:20:20
Local clock offset: -0.041 ms
Remote clock offset: -0.086 ms

Below is generated by plot.py at 2018-12-21 03:51:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 756.15 Mbit/s
95th percentile per-packet one-way delay: 160.068 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 430.68 Mbit/s
95th percentile per-packet one-way delay: 162.132 ms
Loss rate: 1.66%
-- Flow 2:
Average throughput: 328.48 Mbit/s
95th percentile per-packet one-way delay: 128.709 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 325.24 Mbit/s
95th percentile per-packet one-way delay: 84.673 ms
Loss rate: 0.31%

Run 3: Report of PCC-Allegro — Data Link

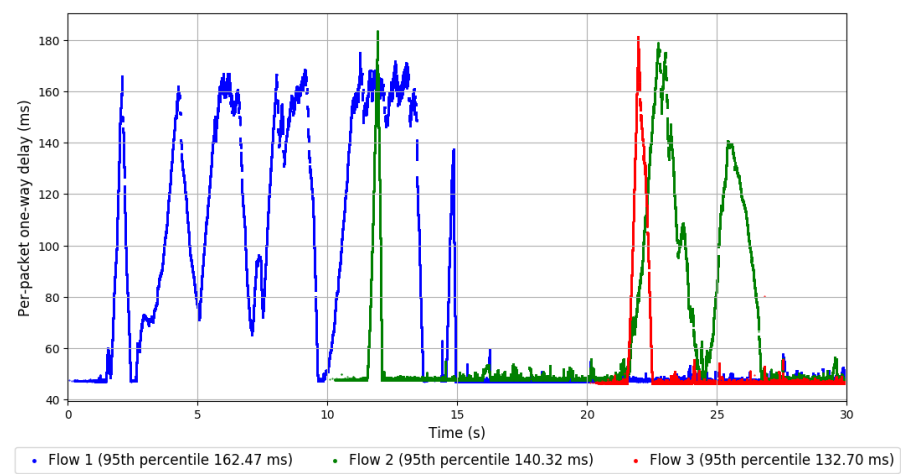
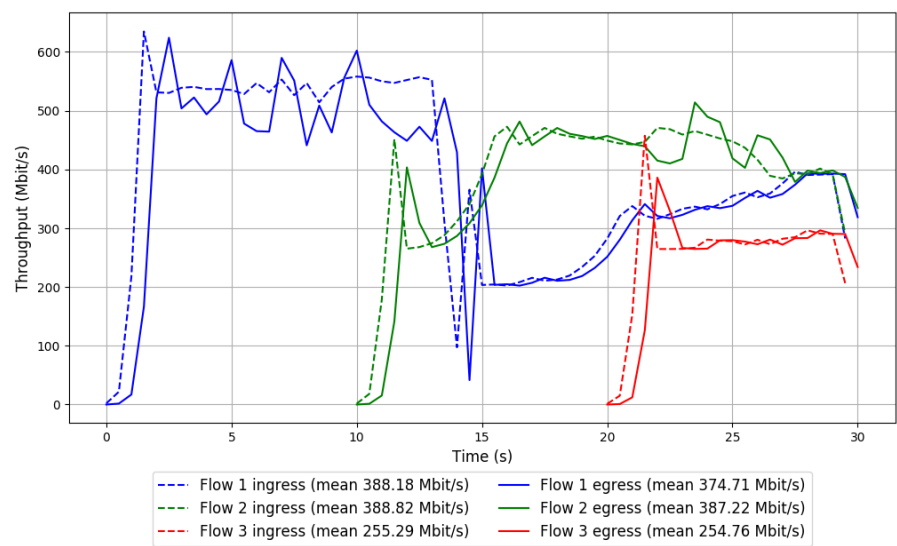


Run 4: Statistics of PCC-Allegro

Start at: 2018-12-21 00:53:04
End at: 2018-12-21 00:53:34
Local clock offset: -0.158 ms
Remote clock offset: -0.097 ms

Below is generated by plot.py at 2018-12-21 03:51:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 715.43 Mbit/s
95th percentile per-packet one-way delay: 160.381 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 374.71 Mbit/s
95th percentile per-packet one-way delay: 162.468 ms
Loss rate: 3.47%
-- Flow 2:
Average throughput: 387.22 Mbit/s
95th percentile per-packet one-way delay: 140.323 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 254.76 Mbit/s
95th percentile per-packet one-way delay: 132.698 ms
Loss rate: 0.21%

Run 4: Report of PCC-Allegro — Data Link

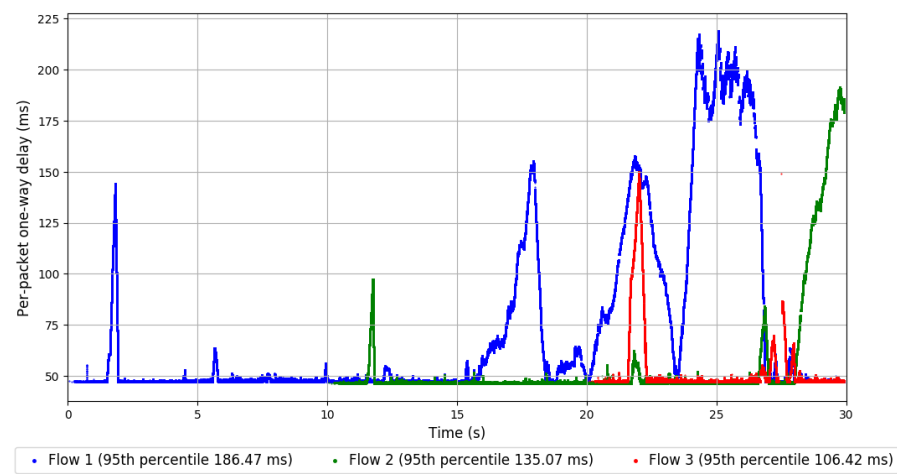
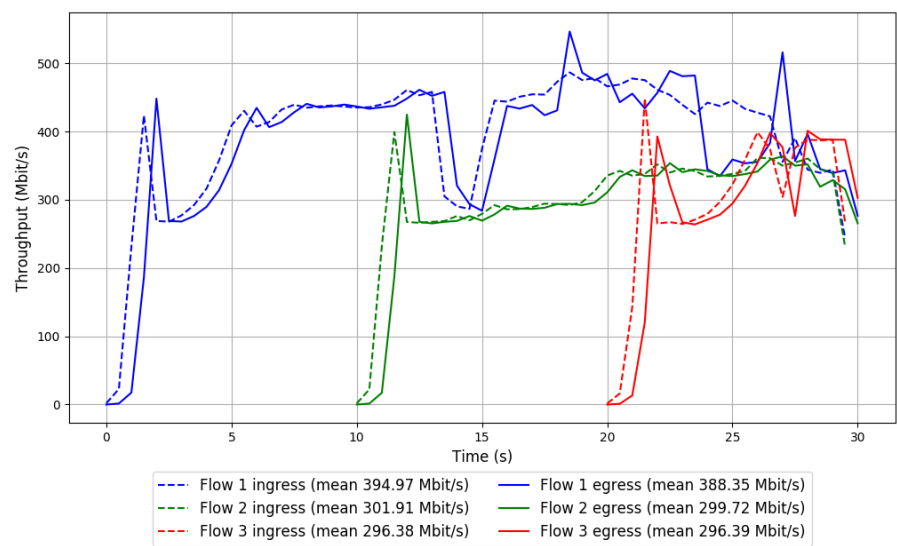


Run 5: Statistics of PCC-Allegro

Start at: 2018-12-21 01:25:45
End at: 2018-12-21 01:26:15
Local clock offset: -0.131 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-12-21 03:51:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 684.96 Mbit/s
95th percentile per-packet one-way delay: 171.708 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 388.35 Mbit/s
95th percentile per-packet one-way delay: 186.473 ms
Loss rate: 1.68%
-- Flow 2:
Average throughput: 299.72 Mbit/s
95th percentile per-packet one-way delay: 135.072 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 296.39 Mbit/s
95th percentile per-packet one-way delay: 106.419 ms
Loss rate: 0.00%

Run 5: Report of PCC-Allegro — Data Link

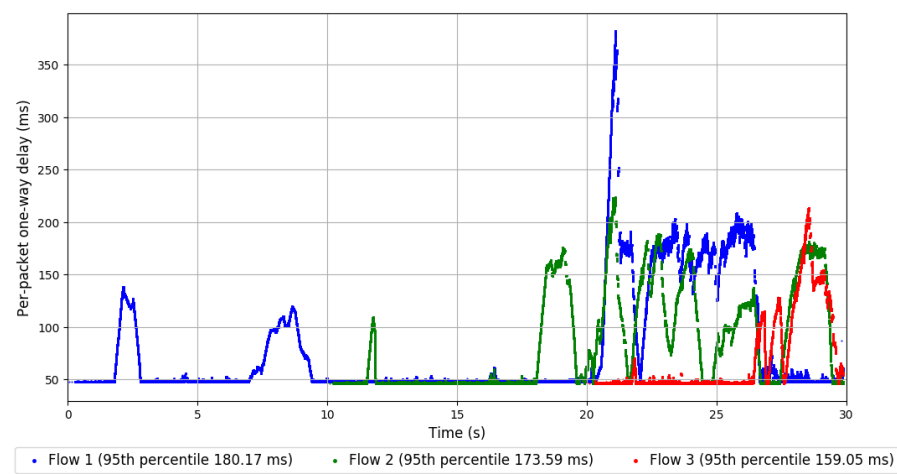
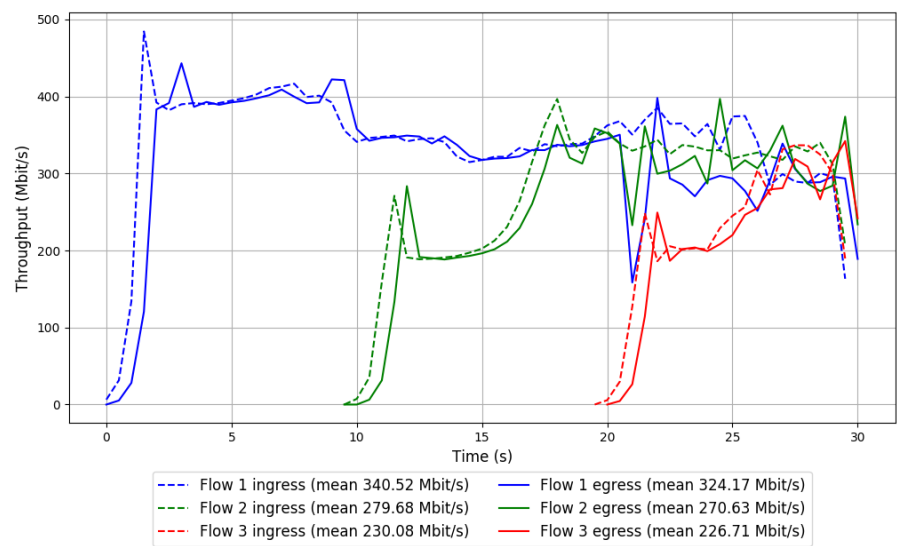


```
Run 1: Statistics of PCC-Expr

Start at: 2018-12-20 22:54:31
End at: 2018-12-20 22:55:01
Local clock offset: -0.016 ms
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2018-12-21 03:51:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 579.45 Mbit/s
95th percentile per-packet one-way delay: 176.762 ms
Loss rate: 3.90%
-- Flow 1:
Average throughput: 324.17 Mbit/s
95th percentile per-packet one-way delay: 180.168 ms
Loss rate: 4.81%
-- Flow 2:
Average throughput: 270.63 Mbit/s
95th percentile per-packet one-way delay: 173.585 ms
Loss rate: 3.24%
-- Flow 3:
Average throughput: 226.71 Mbit/s
95th percentile per-packet one-way delay: 159.051 ms
Loss rate: 1.47%
```

Run 1: Report of PCC-Expr — Data Link

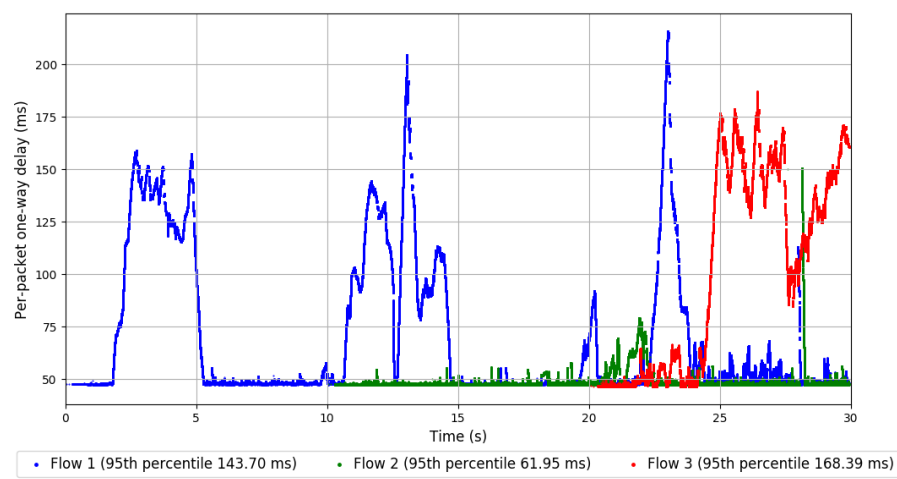
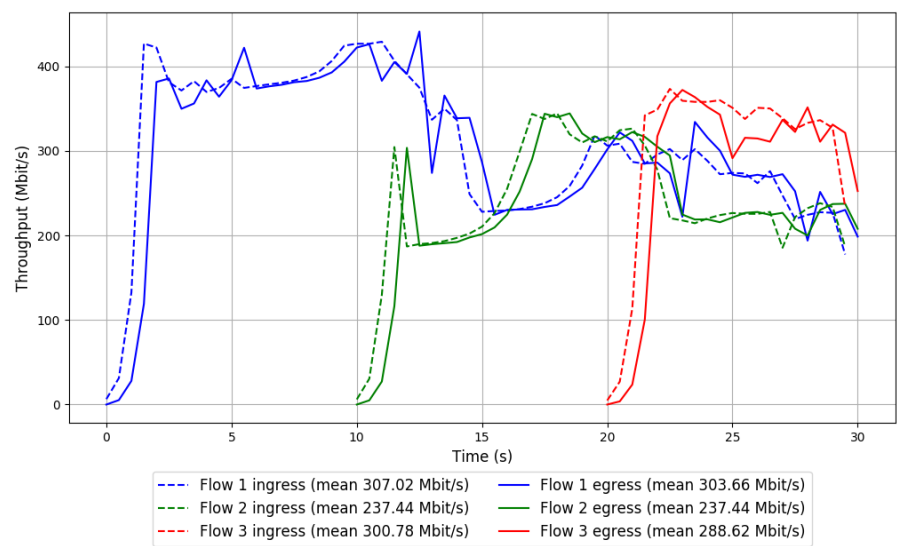


Run 2: Statistics of PCC-Expr

Start at: 2018-12-20 23:27:20
End at: 2018-12-20 23:27:50
Local clock offset: -0.014 ms
Remote clock offset: -0.128 ms

Below is generated by plot.py at 2018-12-21 03:51:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 556.74 Mbit/s
95th percentile per-packet one-way delay: 152.396 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 303.66 Mbit/s
95th percentile per-packet one-way delay: 143.699 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 237.44 Mbit/s
95th percentile per-packet one-way delay: 61.948 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 288.62 Mbit/s
95th percentile per-packet one-way delay: 168.394 ms
Loss rate: 4.02%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-12-21 00:00:11

End at: 2018-12-21 00:00:41

Local clock offset: -0.02 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2018-12-21 03:51:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 508.72 Mbit/s

95th percentile per-packet one-way delay: 128.599 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 287.95 Mbit/s

95th percentile per-packet one-way delay: 96.547 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 250.90 Mbit/s

95th percentile per-packet one-way delay: 106.682 ms

Loss rate: 0.00%

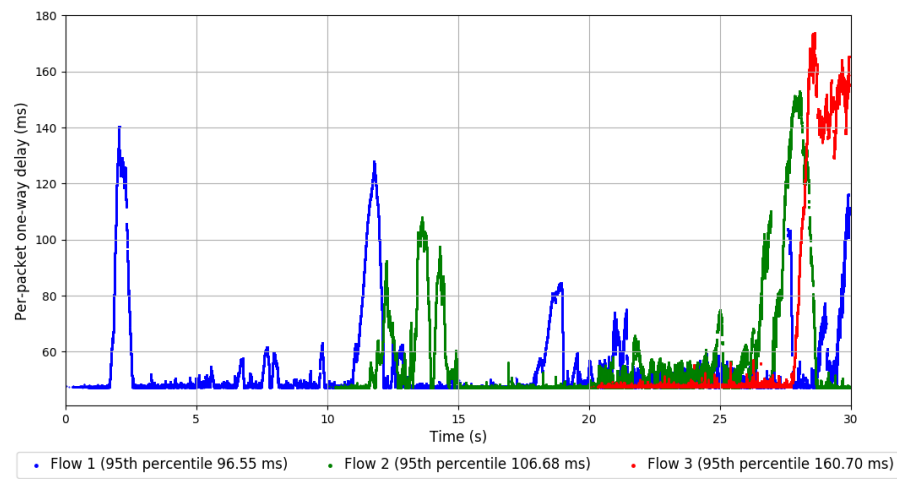
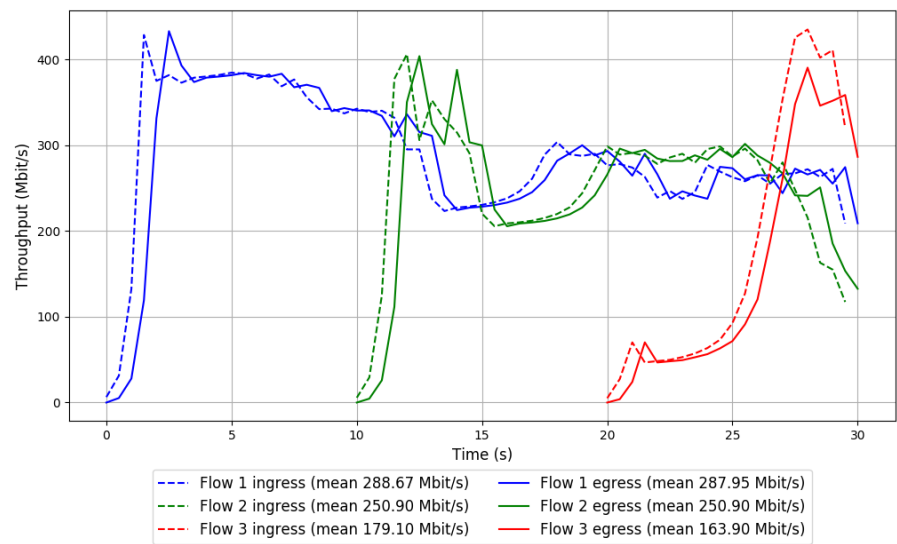
-- Flow 3:

Average throughput: 163.90 Mbit/s

95th percentile per-packet one-way delay: 160.697 ms

Loss rate: 8.45%

Run 3: Report of PCC-Expr — Data Link

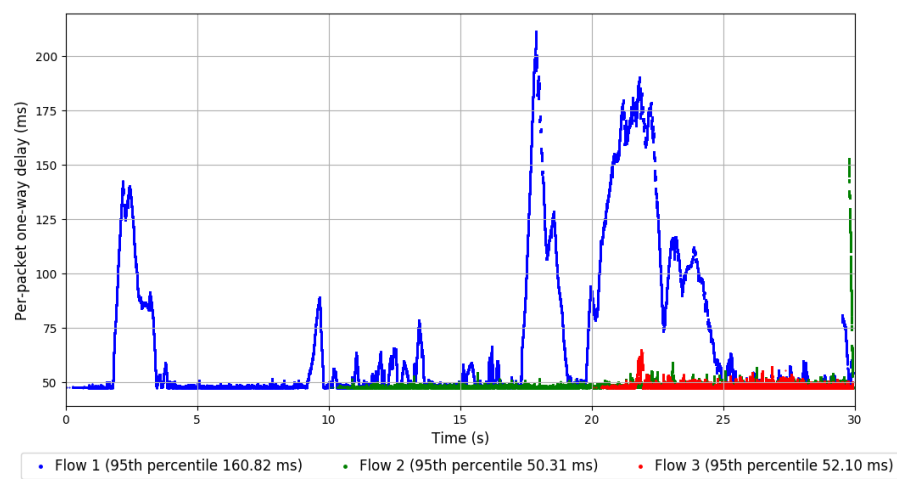
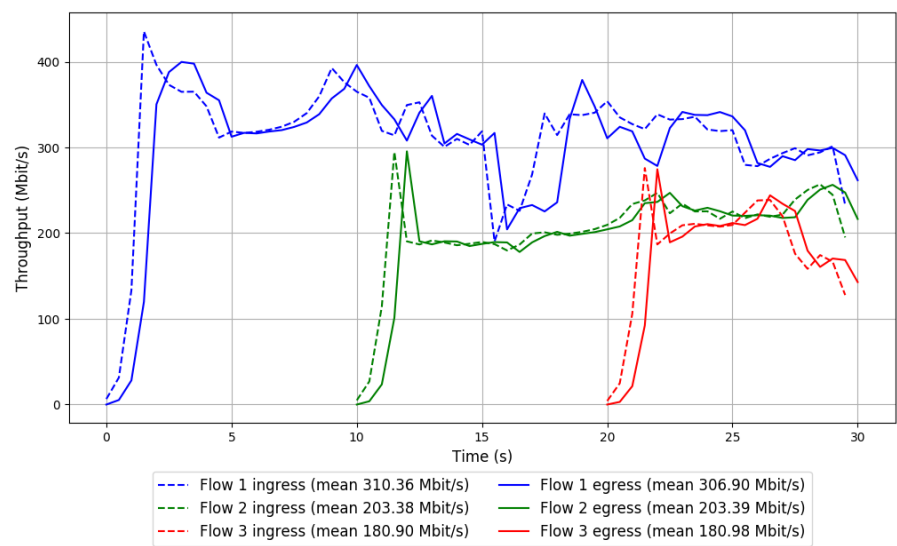


Run 4: Statistics of PCC-Expr

Start at: 2018-12-21 00:33:22
End at: 2018-12-21 00:33:52
Local clock offset: -0.153 ms
Remote clock offset: -0.058 ms

Below is generated by plot.py at 2018-12-21 04:01:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 501.82 Mbit/s
95th percentile per-packet one-way delay: 136.605 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 306.90 Mbit/s
95th percentile per-packet one-way delay: 160.819 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 203.39 Mbit/s
95th percentile per-packet one-way delay: 50.307 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 180.98 Mbit/s
95th percentile per-packet one-way delay: 52.098 ms
Loss rate: 0.00%

Run 4: Report of PCC-Expr — Data Link

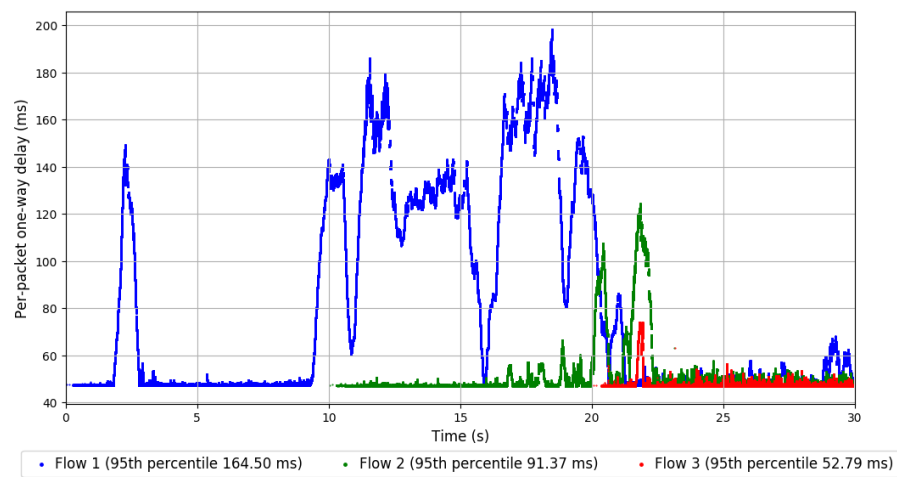
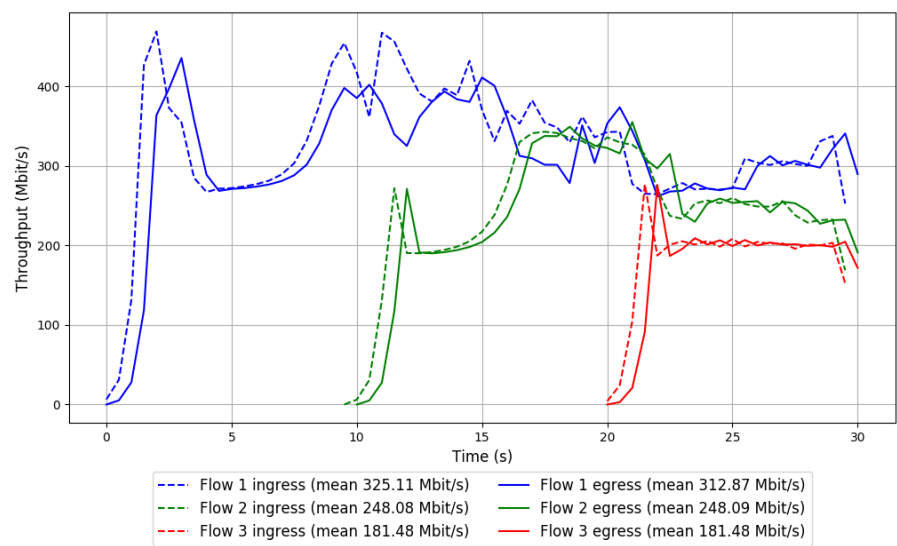


Run 5: Statistics of PCC-Expr

Start at: 2018-12-21 01:06:34
End at: 2018-12-21 01:07:04
Local clock offset: -0.116 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-12-21 04:07:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 537.77 Mbit/s
95th percentile per-packet one-way delay: 154.329 ms
Loss rate: 2.22%
-- Flow 1:
Average throughput: 312.87 Mbit/s
95th percentile per-packet one-way delay: 164.497 ms
Loss rate: 3.76%
-- Flow 2:
Average throughput: 248.09 Mbit/s
95th percentile per-packet one-way delay: 91.368 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 181.48 Mbit/s
95th percentile per-packet one-way delay: 52.788 ms
Loss rate: 0.00%

Run 5: Report of PCC-Expr — Data Link

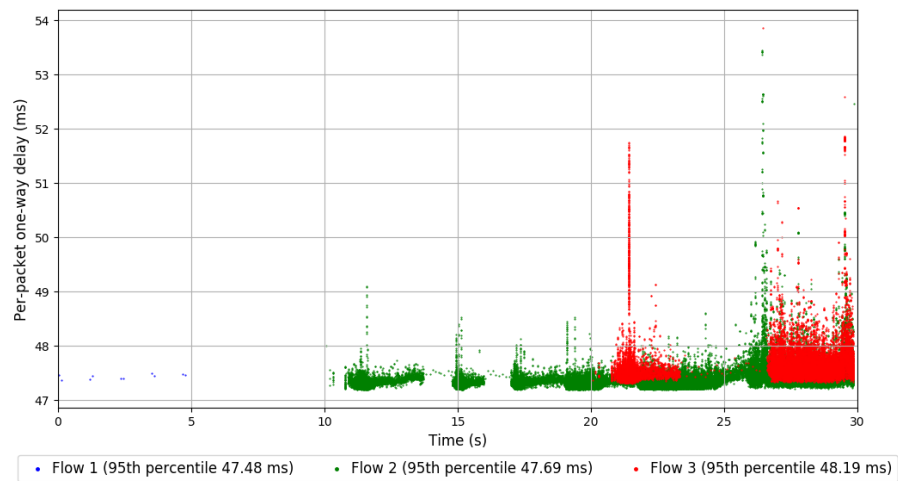
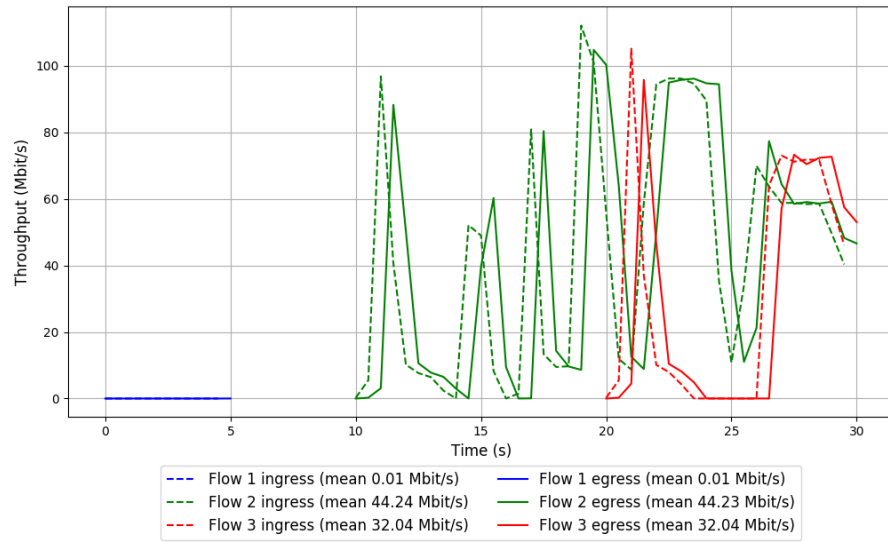


Run 1: Statistics of QUIC Cubic

Start at: 2018-12-20 22:56:35
End at: 2018-12-20 22:57:05
Local clock offset: -0.002 ms
Remote clock offset: -0.096 ms

Below is generated by plot.py at 2018-12-21 04:07:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 39.88 Mbit/s
95th percentile per-packet one-way delay: 47.881 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 47.483 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 44.23 Mbit/s
95th percentile per-packet one-way delay: 47.693 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.04 Mbit/s
95th percentile per-packet one-way delay: 48.186 ms
Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link

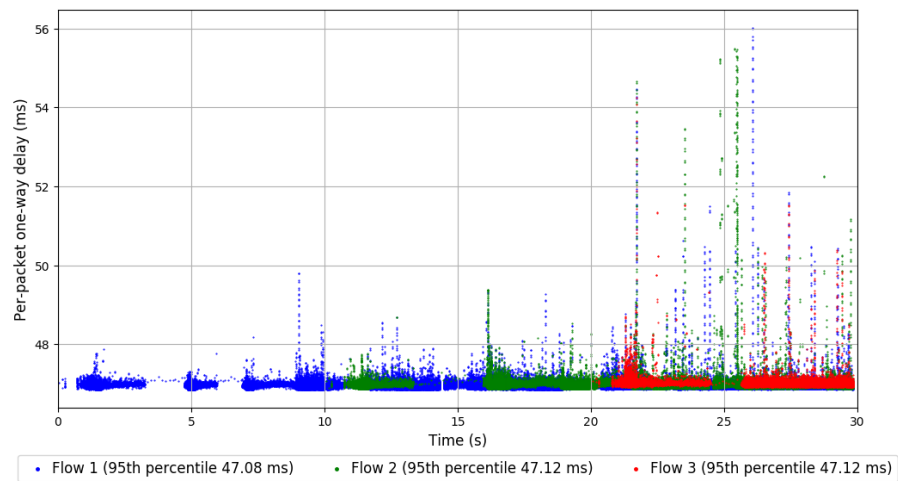
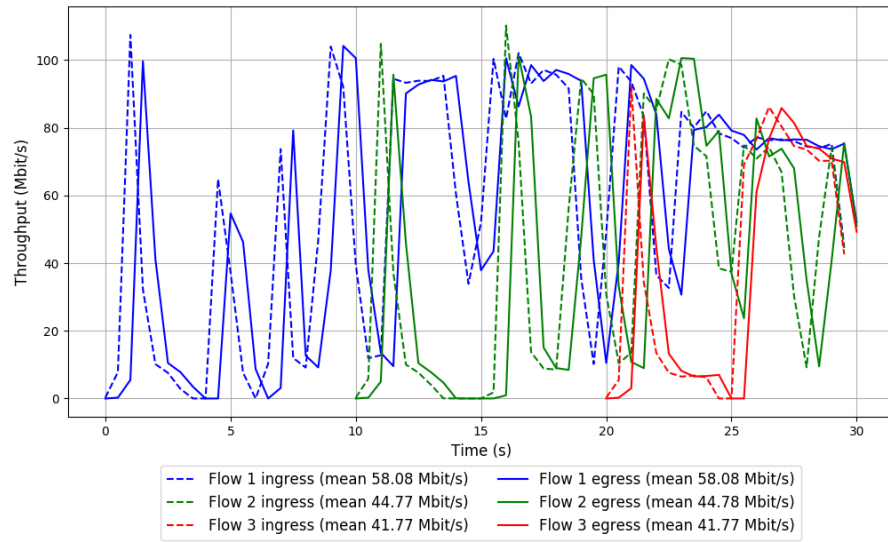


Run 2: Statistics of QUIC Cubic

Start at: 2018-12-20 23:29:21
End at: 2018-12-20 23:29:51
Local clock offset: 0.295 ms
Remote clock offset: -0.107 ms

Below is generated by plot.py at 2018-12-21 04:07:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 101.52 Mbit/s
95th percentile per-packet one-way delay: 47.096 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.08 Mbit/s
95th percentile per-packet one-way delay: 47.078 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 44.78 Mbit/s
95th percentile per-packet one-way delay: 47.117 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 41.77 Mbit/s
95th percentile per-packet one-way delay: 47.117 ms
Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-12-21 00:02:08

End at: 2018-12-21 00:02:38

Local clock offset: -0.414 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2018-12-21 04:07:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.04 Mbit/s

95th percentile per-packet one-way delay: 47.958 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.78 Mbit/s

95th percentile per-packet one-way delay: 47.936 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.53 Mbit/s

95th percentile per-packet one-way delay: 47.106 ms

Loss rate: 0.00%

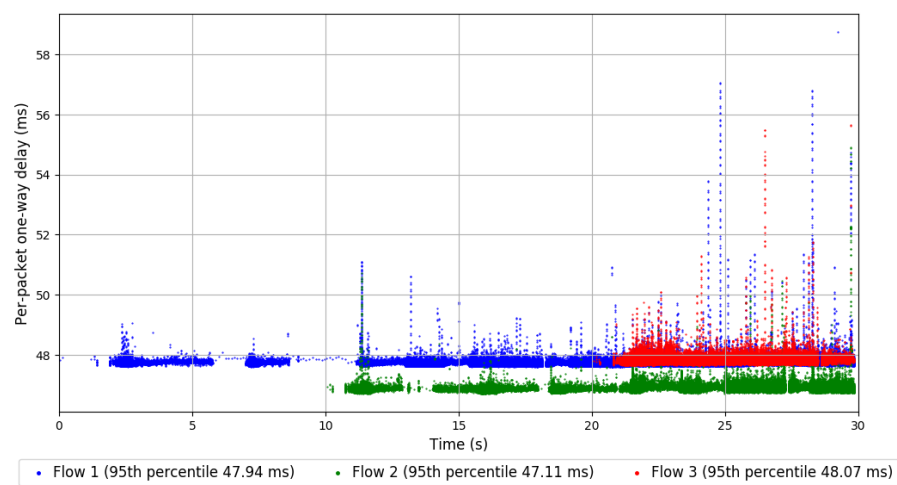
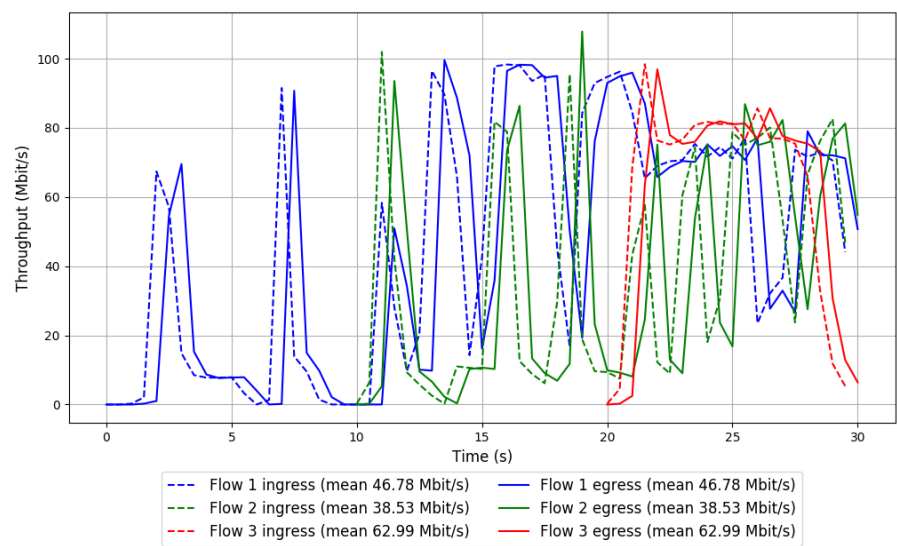
-- Flow 3:

Average throughput: 62.99 Mbit/s

95th percentile per-packet one-way delay: 48.067 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link

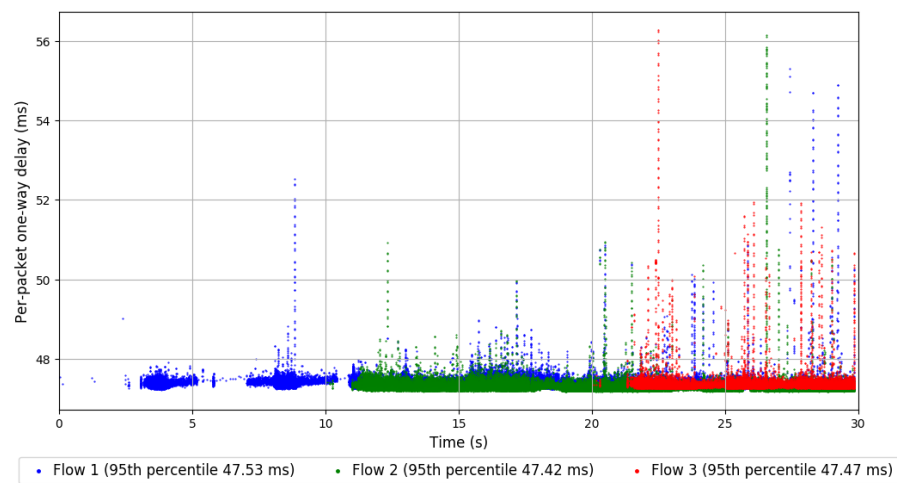
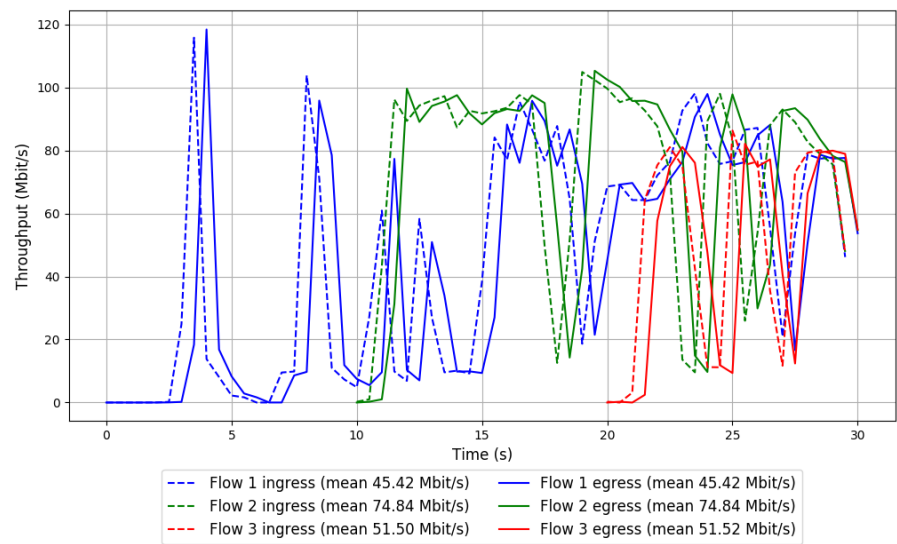


Run 4: Statistics of QUIC Cubic

Start at: 2018-12-21 00:35:19
End at: 2018-12-21 00:35:49
Local clock offset: -0.109 ms
Remote clock offset: -0.054 ms

Below is generated by plot.py at 2018-12-21 04:07:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 112.03 Mbit/s
95th percentile per-packet one-way delay: 47.486 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 45.42 Mbit/s
95th percentile per-packet one-way delay: 47.527 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 74.84 Mbit/s
95th percentile per-packet one-way delay: 47.422 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 51.52 Mbit/s
95th percentile per-packet one-way delay: 47.468 ms
Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-12-21 01:08:34

End at: 2018-12-21 01:09:04

Local clock offset: -0.126 ms

Remote clock offset: -0.0 ms

Below is generated by plot.py at 2018-12-21 04:07:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.89 Mbit/s

95th percentile per-packet one-way delay: 47.542 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.35 Mbit/s

95th percentile per-packet one-way delay: 47.540 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.68 Mbit/s

95th percentile per-packet one-way delay: 47.527 ms

Loss rate: 0.00%

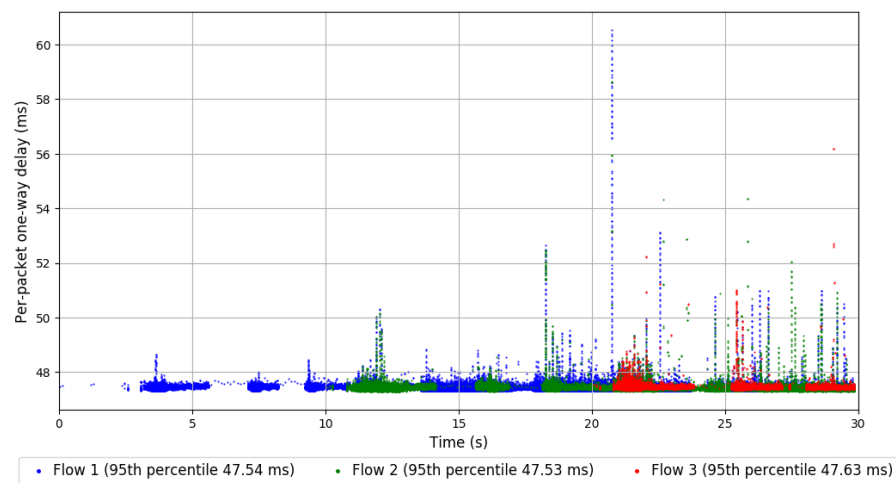
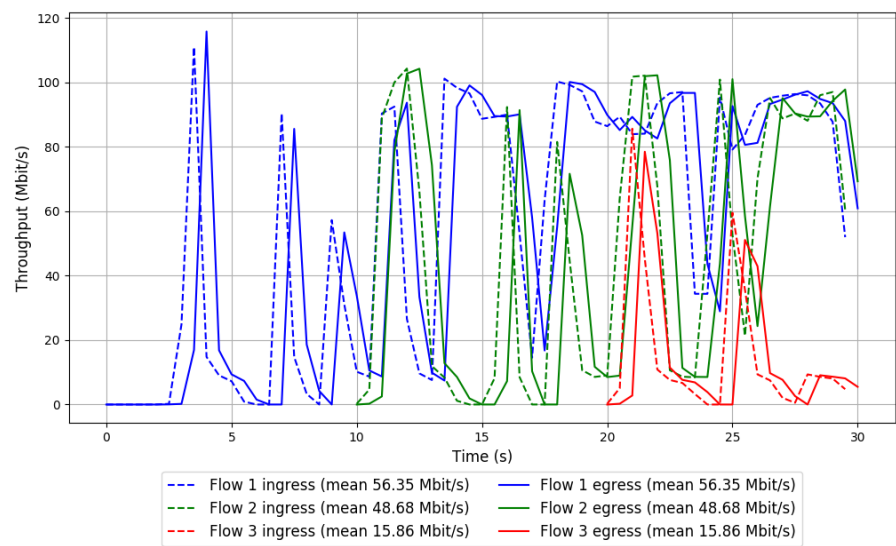
-- Flow 3:

Average throughput: 15.86 Mbit/s

95th percentile per-packet one-way delay: 47.627 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

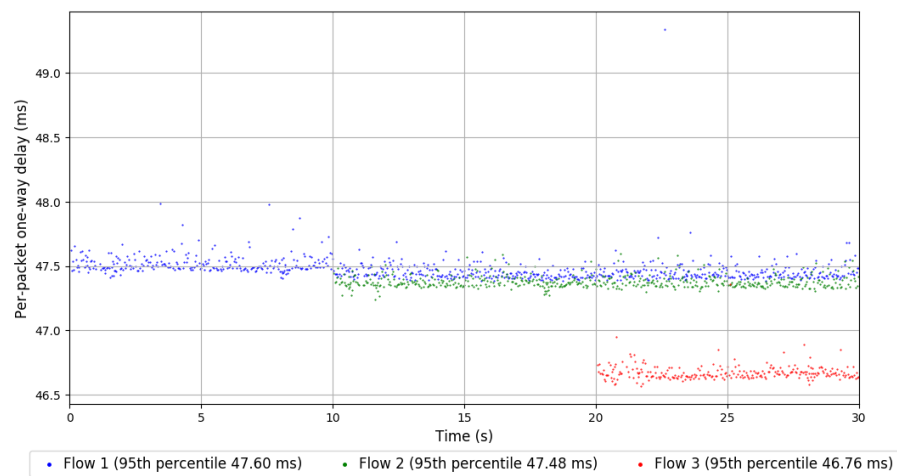
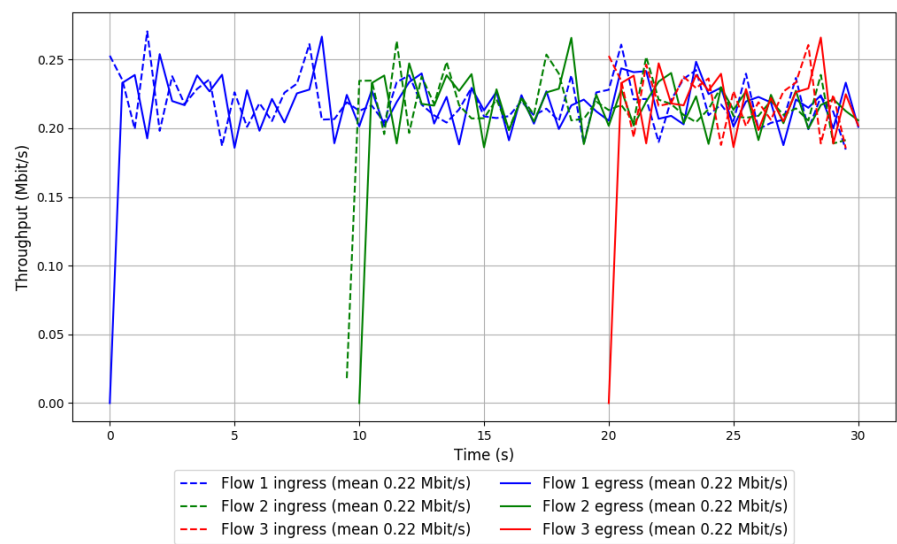



```
Run 1: Statistics of SReAM

Start at: 2018-12-20 23:04:57
End at: 2018-12-20 23:05:27
Local clock offset: -0.001 ms
Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2018-12-21 04:07:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 47.556 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.600 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.475 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 46.758 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

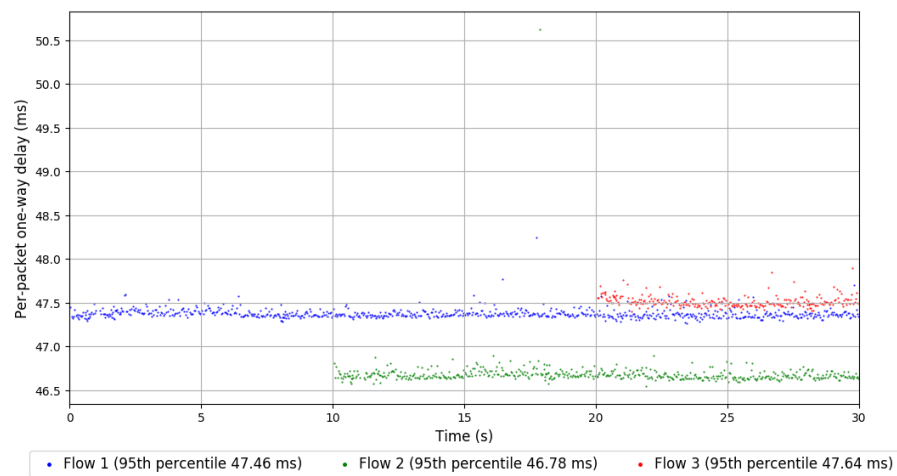
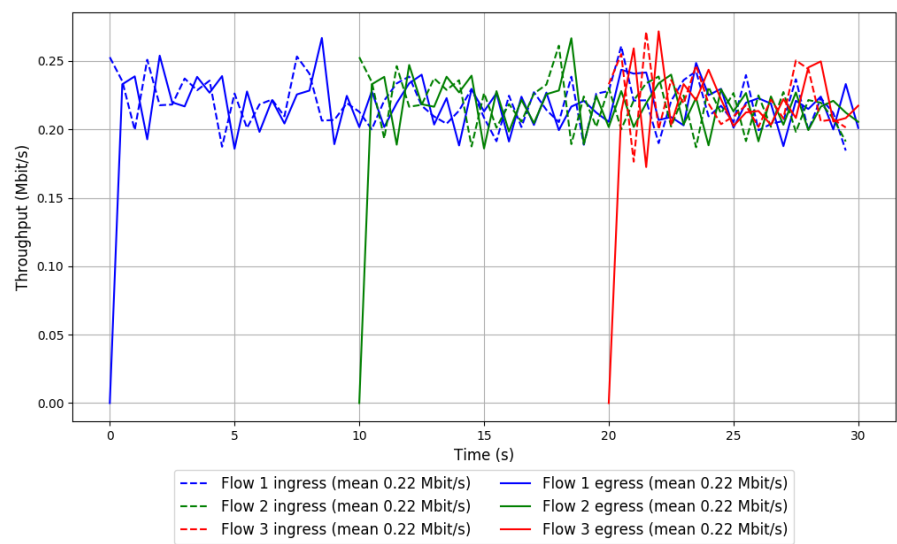


Run 2: Statistics of SReAM

Start at: 2018-12-20 23:37:49
End at: 2018-12-20 23:38:19
Local clock offset: -0.084 ms
Remote clock offset: -0.138 ms

Below is generated by plot.py at 2018-12-21 04:07:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 47.543 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.462 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 46.779 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.636 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

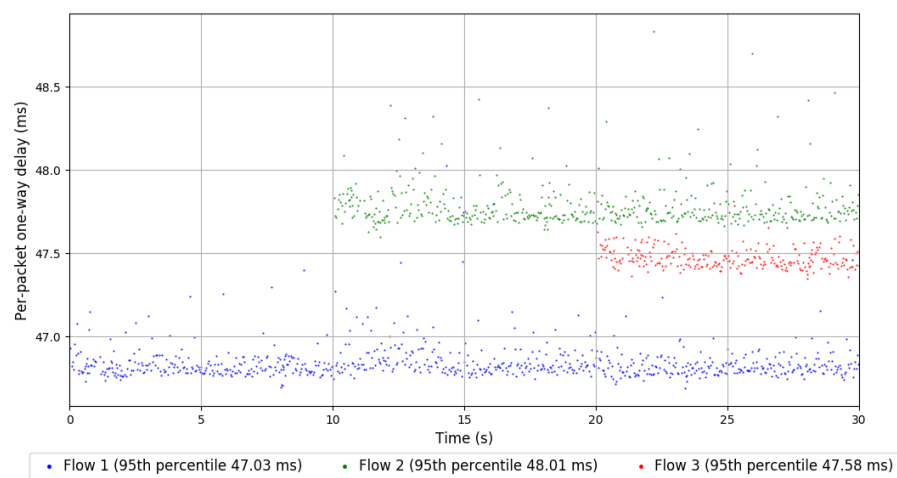
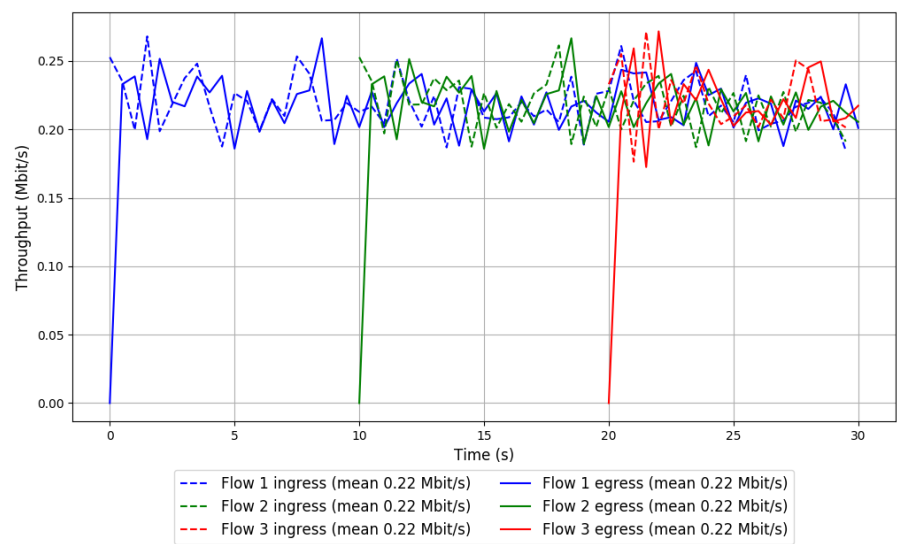


Run 3: Statistics of SReAM

Start at: 2018-12-21 00:10:38
End at: 2018-12-21 00:11:08
Local clock offset: -0.035 ms
Remote clock offset: -0.096 ms

Below is generated by plot.py at 2018-12-21 04:07:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 47.861 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.026 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.011 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.582 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

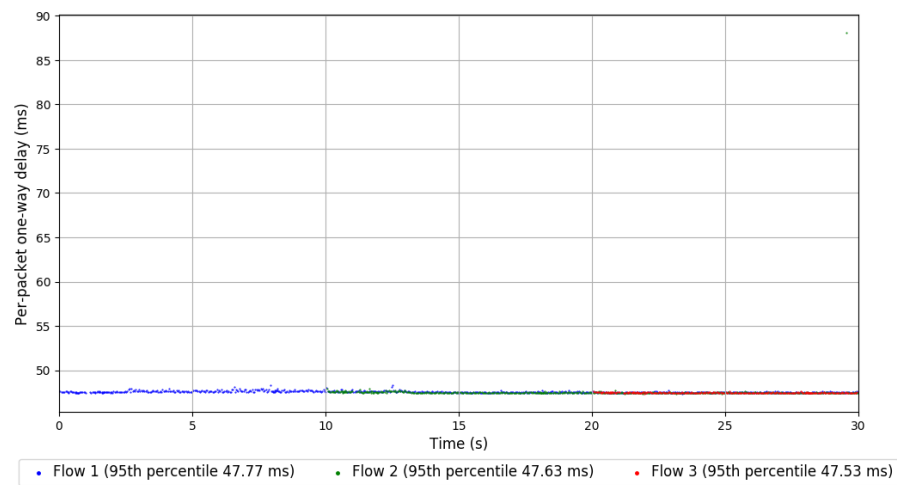
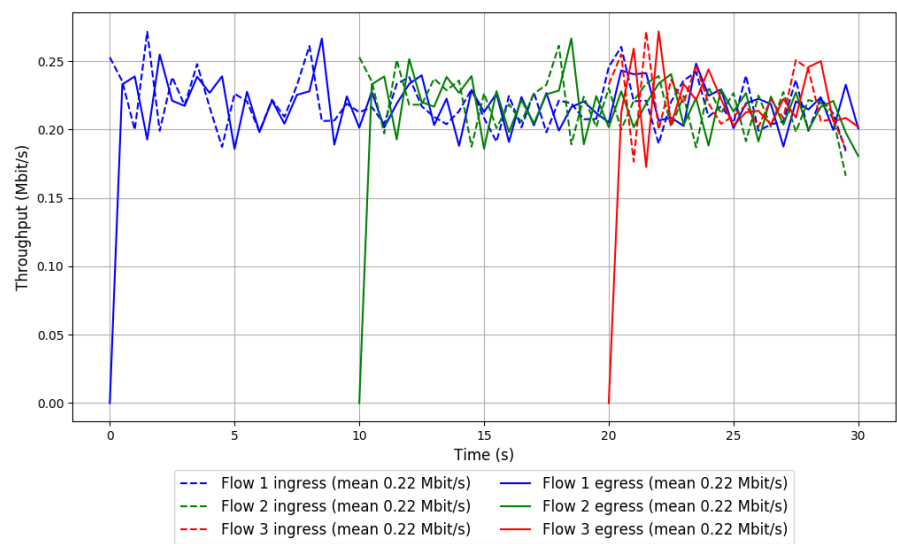


Run 4: Statistics of SReAM

Start at: 2018-12-21 00:43:54
End at: 2018-12-21 00:44:24
Local clock offset: -0.158 ms
Remote clock offset: -0.095 ms

Below is generated by plot.py at 2018-12-21 04:07:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 47.711 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.773 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.630 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.531 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-12-21 01:16:57

End at: 2018-12-21 01:17:27

Local clock offset: 0.256 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-12-21 04:07:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 47.203 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.160 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.237 ms

Loss rate: 0.00%

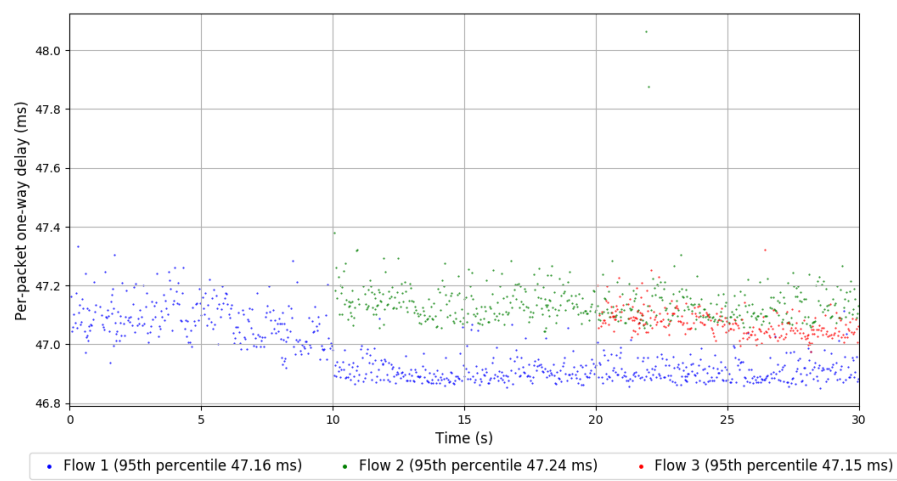
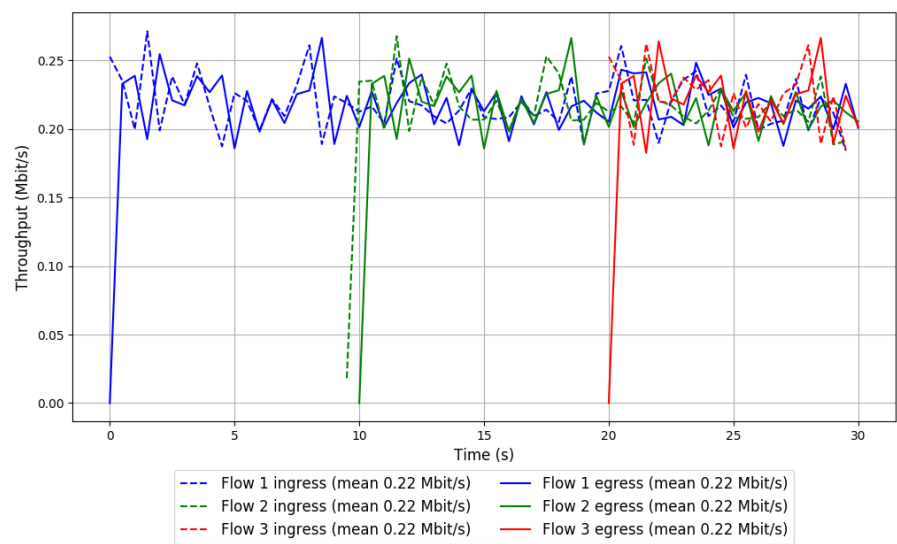
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.149 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

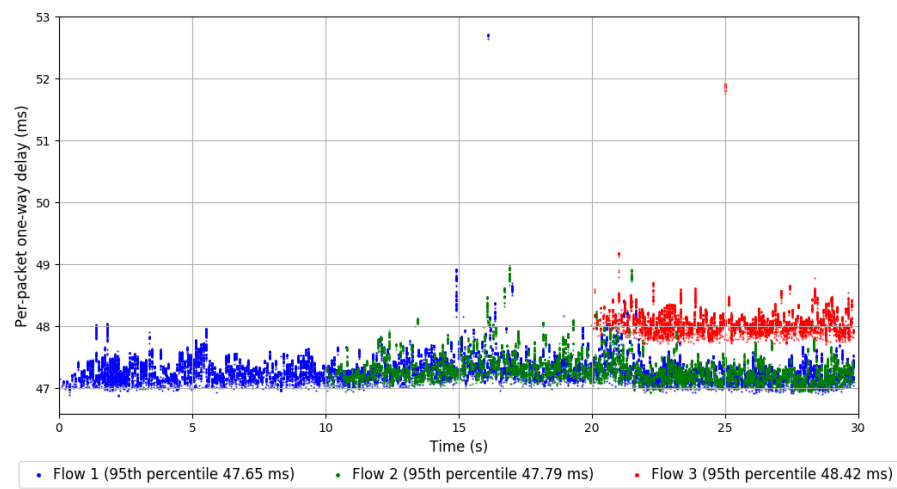
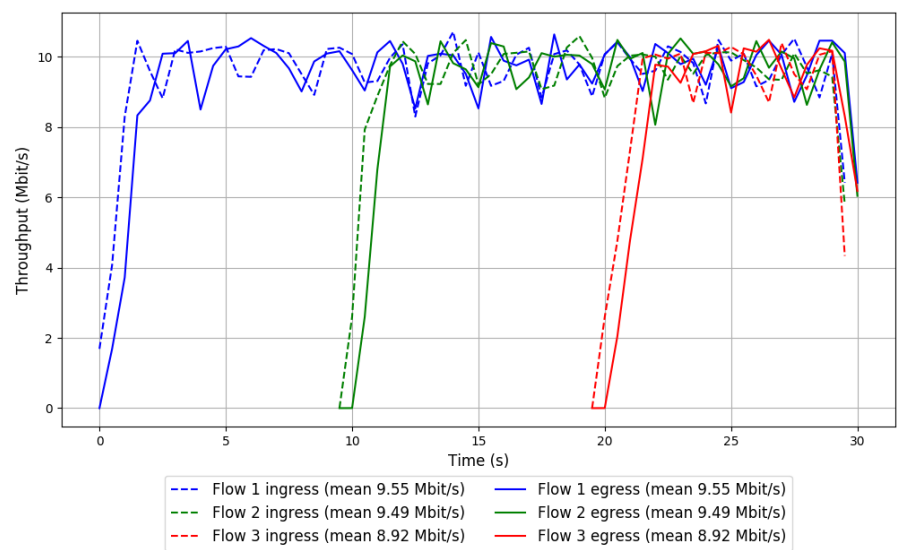


Run 1: Statistics of Sprout

Start at: 2018-12-20 22:49:45
End at: 2018-12-20 22:50:15
Local clock offset: -0.427 ms
Remote clock offset: -0.105 ms

Below is generated by plot.py at 2018-12-21 04:07:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.83 Mbit/s
95th percentile per-packet one-way delay: 48.150 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.55 Mbit/s
95th percentile per-packet one-way delay: 47.649 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 9.49 Mbit/s
95th percentile per-packet one-way delay: 47.794 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.92 Mbit/s
95th percentile per-packet one-way delay: 48.417 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

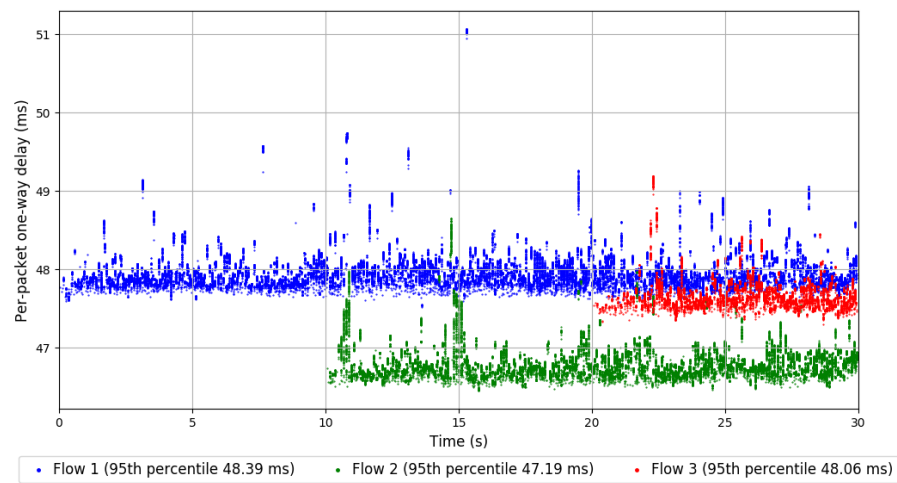
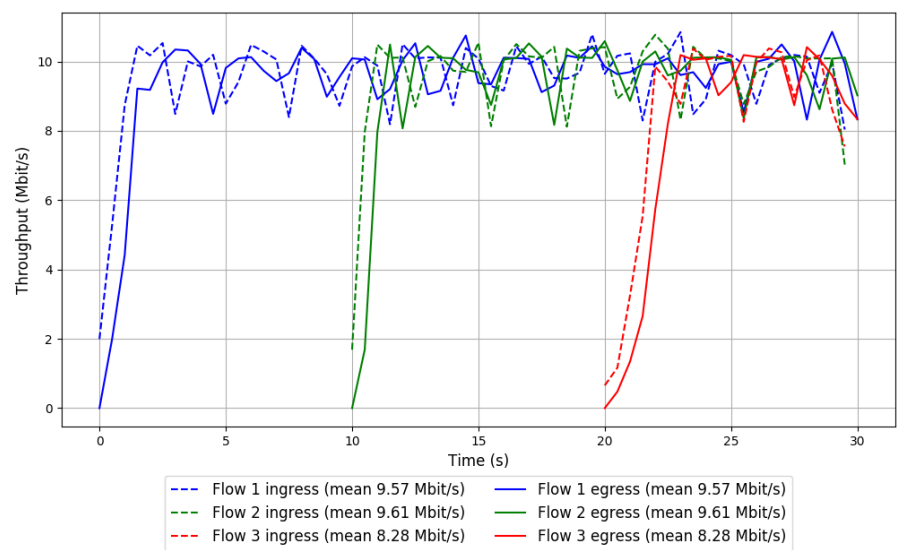


Run 2: Statistics of Sprout

Start at: 2018-12-20 23:22:31
End at: 2018-12-20 23:23:01
Local clock offset: -0.046 ms
Remote clock offset: -0.112 ms

Below is generated by plot.py at 2018-12-21 04:07:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.69 Mbit/s
95th percentile per-packet one-way delay: 48.234 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.57 Mbit/s
95th percentile per-packet one-way delay: 48.389 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 9.61 Mbit/s
95th percentile per-packet one-way delay: 47.186 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.28 Mbit/s
95th percentile per-packet one-way delay: 48.058 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

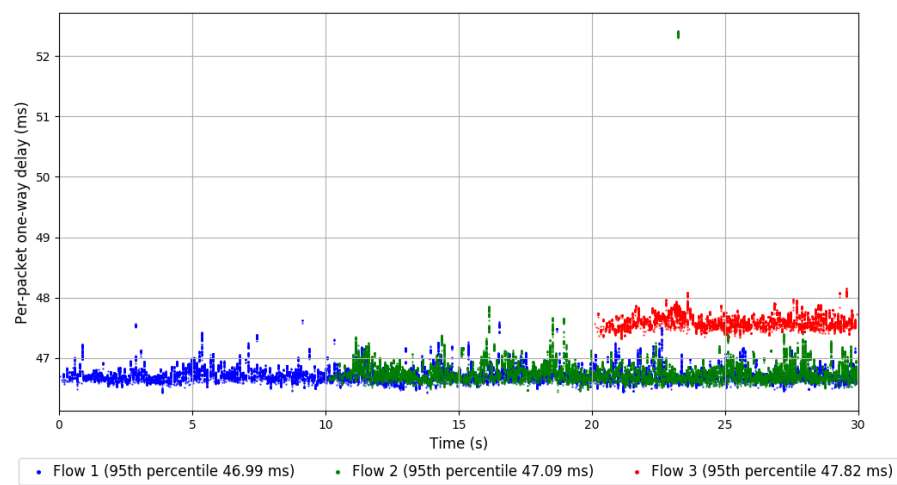
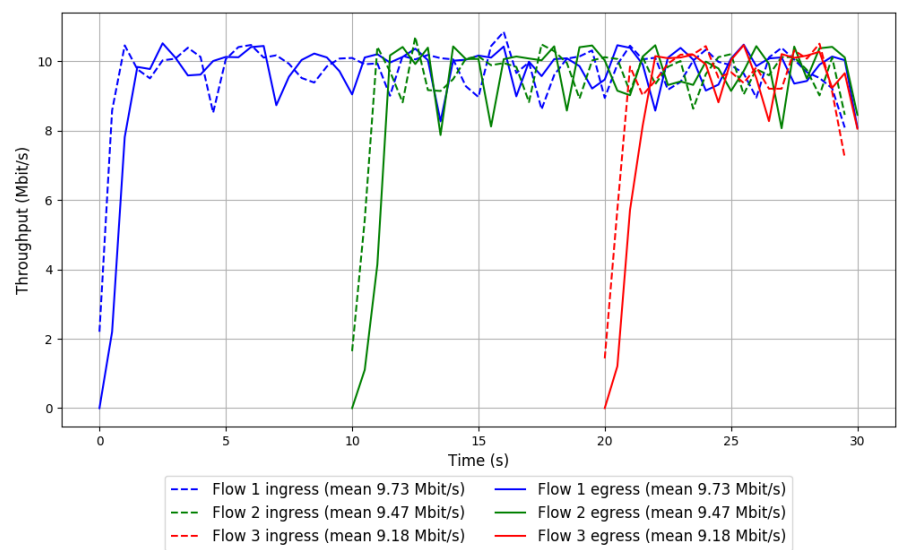


Run 3: Statistics of Sprout

Start at: 2018-12-20 23:55:19
End at: 2018-12-20 23:55:49
Local clock offset: -0.038 ms
Remote clock offset: -0.102 ms

```
# Below is generated by plot.py at 2018-12-21 04:07:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.03 Mbit/s
95th percentile per-packet one-way delay: 47.650 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.73 Mbit/s
95th percentile per-packet one-way delay: 46.987 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 9.47 Mbit/s
95th percentile per-packet one-way delay: 47.092 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.18 Mbit/s
95th percentile per-packet one-way delay: 47.816 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

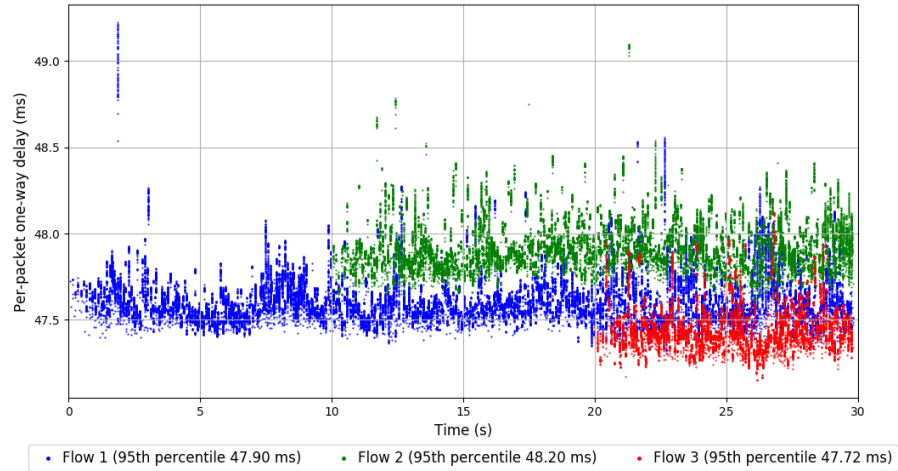
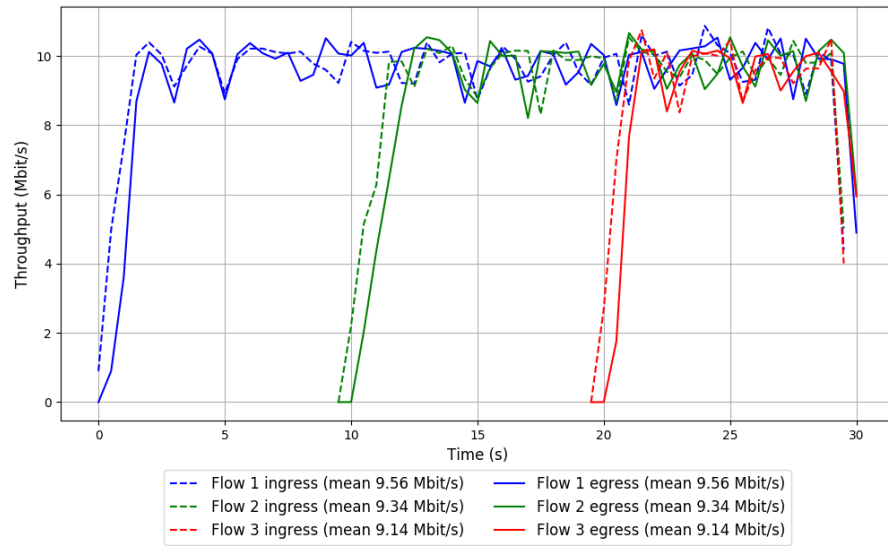


Run 4: Statistics of Sprout

Start at: 2018-12-21 00:28:34
End at: 2018-12-21 00:29:04
Local clock offset: -0.138 ms
Remote clock offset: -0.094 ms

```
# Below is generated by plot.py at 2018-12-21 04:07:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.82 Mbit/s
95th percentile per-packet one-way delay: 48.080 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.56 Mbit/s
95th percentile per-packet one-way delay: 47.898 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 9.34 Mbit/s
95th percentile per-packet one-way delay: 48.201 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.14 Mbit/s
95th percentile per-packet one-way delay: 47.715 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

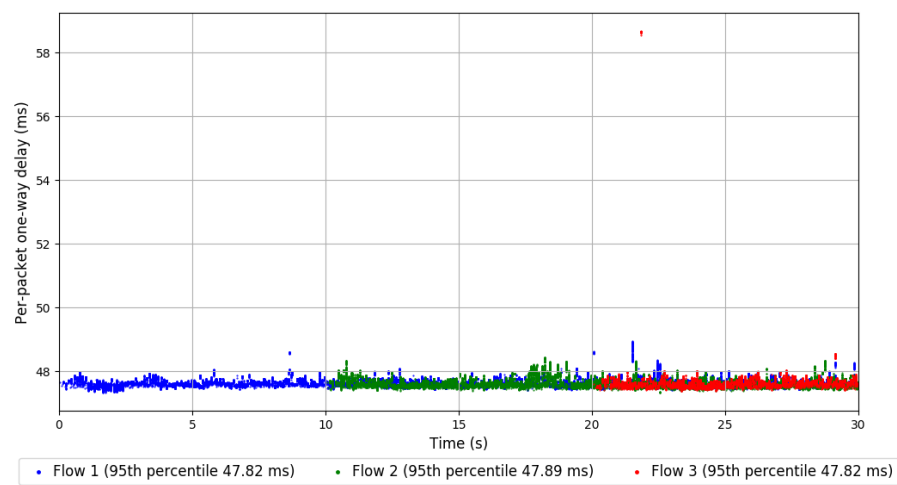
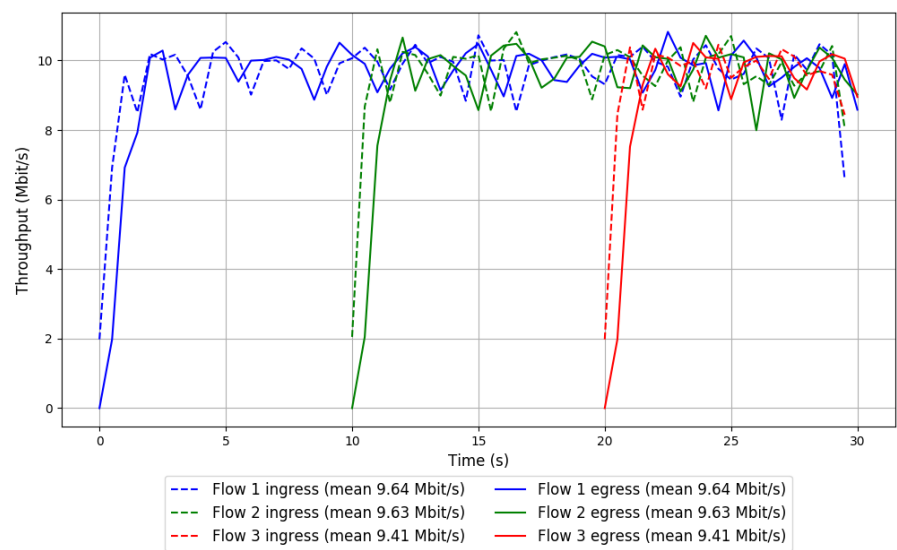


Run 5: Statistics of Sprout

Start at: 2018-12-21 01:01:46
End at: 2018-12-21 01:02:16
Local clock offset: -0.153 ms
Remote clock offset: -0.038 ms

```
# Below is generated by plot.py at 2018-12-21 04:07:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.14 Mbit/s
95th percentile per-packet one-way delay: 47.836 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.64 Mbit/s
95th percentile per-packet one-way delay: 47.817 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 9.63 Mbit/s
95th percentile per-packet one-way delay: 47.888 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.41 Mbit/s
95th percentile per-packet one-way delay: 47.817 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

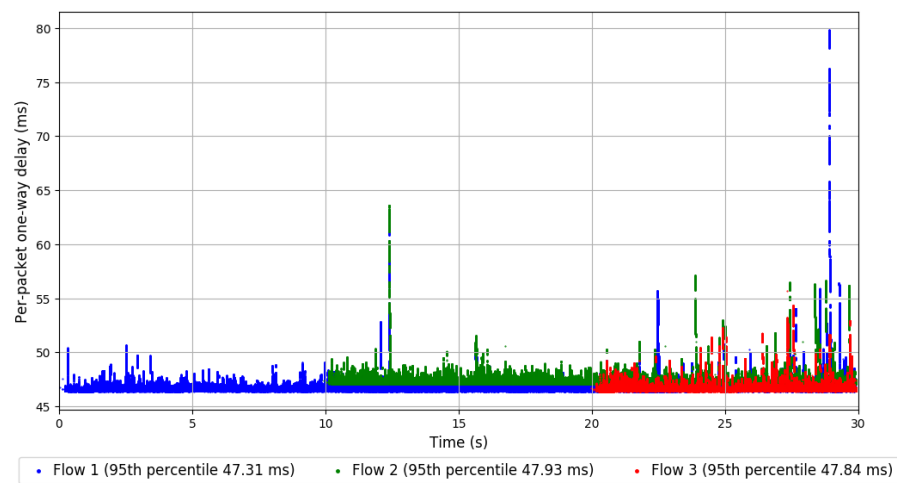
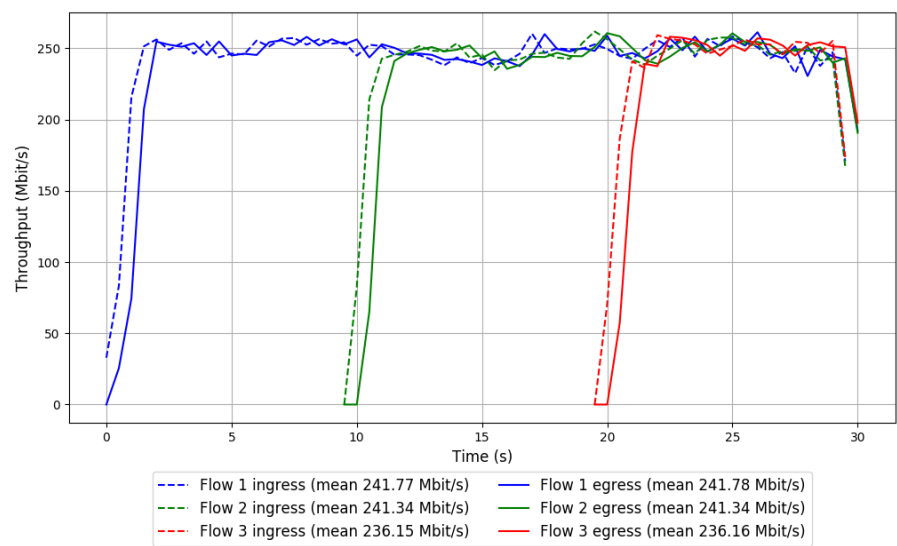


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-12-20 22:47:50
End at: 2018-12-20 22:48:20
Local clock offset: -0.083 ms
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2018-12-21 04:09:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 481.81 Mbit/s
95th percentile per-packet one-way delay: 47.708 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 241.78 Mbit/s
95th percentile per-packet one-way delay: 47.308 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 241.34 Mbit/s
95th percentile per-packet one-way delay: 47.931 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 236.16 Mbit/s
95th percentile per-packet one-way delay: 47.842 ms
Loss rate: 0.00%
```

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

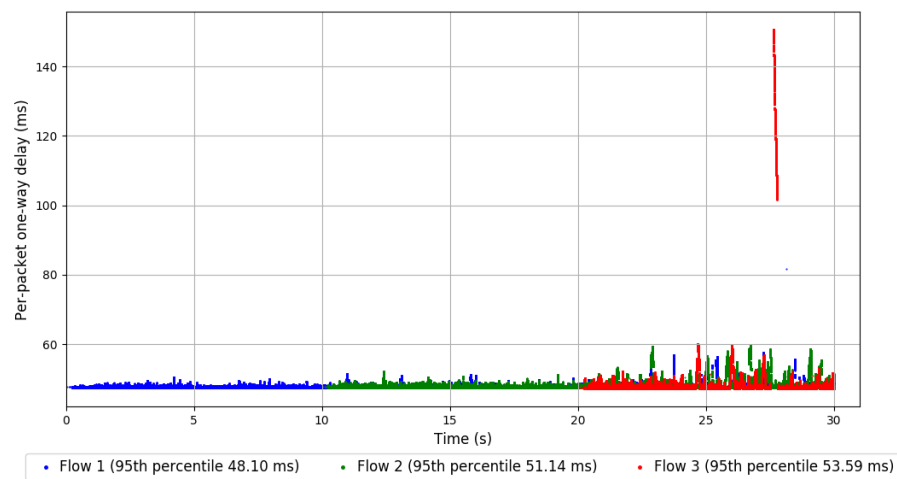
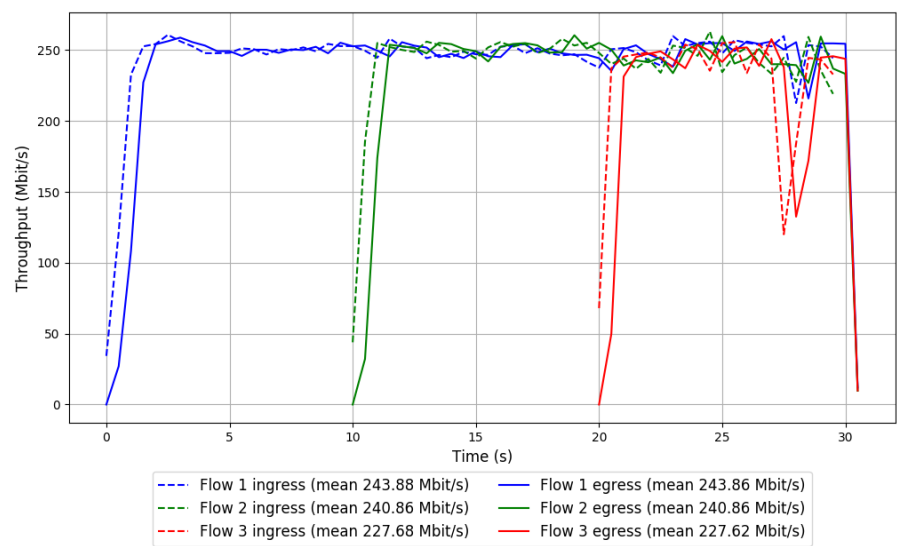


Run 2: Statistics of TaoVA-100x

Start at: 2018-12-20 23:20:34
End at: 2018-12-20 23:21:04
Local clock offset: -0.04 ms
Remote clock offset: -0.091 ms

Below is generated by plot.py at 2018-12-21 04:09:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 479.92 Mbit/s
95th percentile per-packet one-way delay: 49.654 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 243.86 Mbit/s
95th percentile per-packet one-way delay: 48.096 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 240.86 Mbit/s
95th percentile per-packet one-way delay: 51.138 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 227.62 Mbit/s
95th percentile per-packet one-way delay: 53.588 ms
Loss rate: 0.02%

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

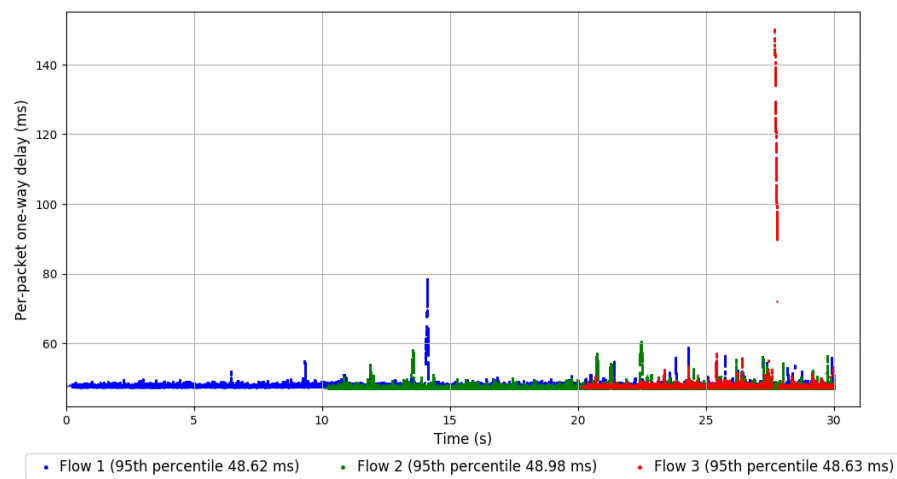
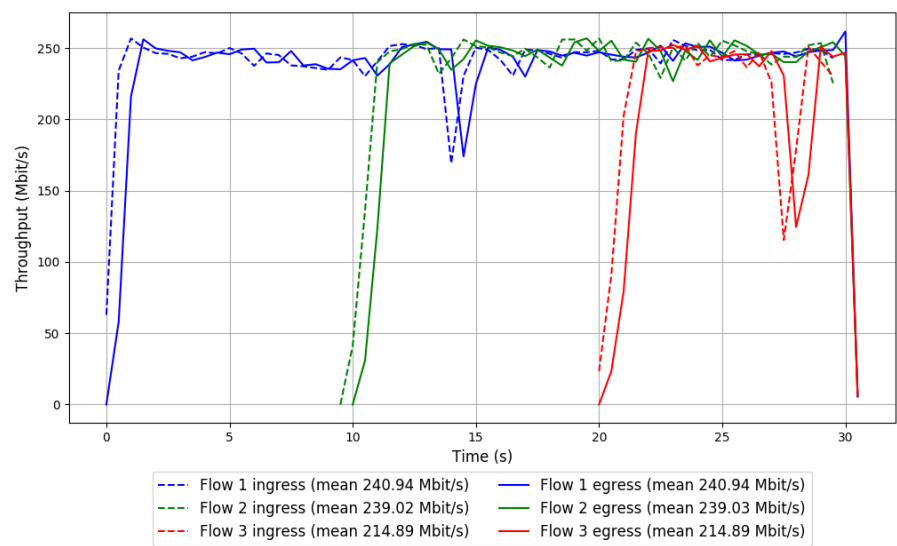


Run 3: Statistics of TaoVA-100x

Start at: 2018-12-20 23:53:22
End at: 2018-12-20 23:53:52
Local clock offset: -0.038 ms
Remote clock offset: -0.107 ms

Below is generated by plot.py at 2018-12-21 04:09:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 471.43 Mbit/s
95th percentile per-packet one-way delay: 48.704 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 240.94 Mbit/s
95th percentile per-packet one-way delay: 48.625 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 239.03 Mbit/s
95th percentile per-packet one-way delay: 48.976 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 214.89 Mbit/s
95th percentile per-packet one-way delay: 48.631 ms
Loss rate: 0.00%

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

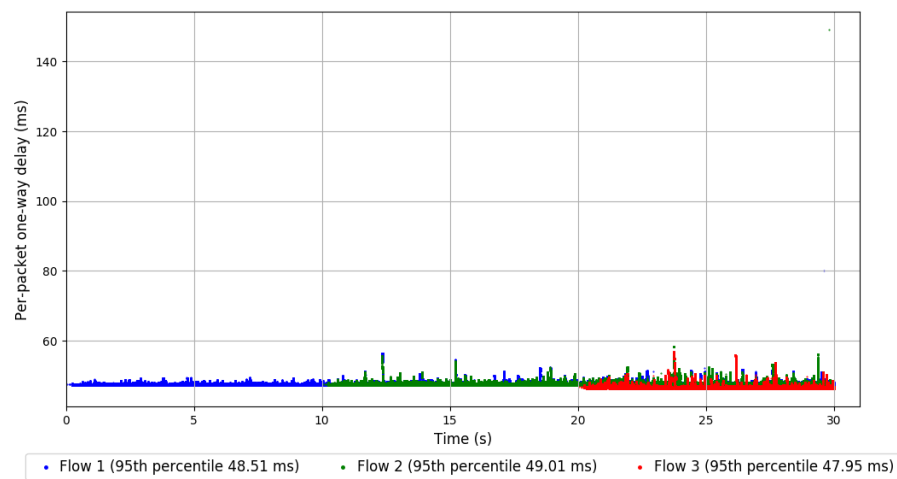
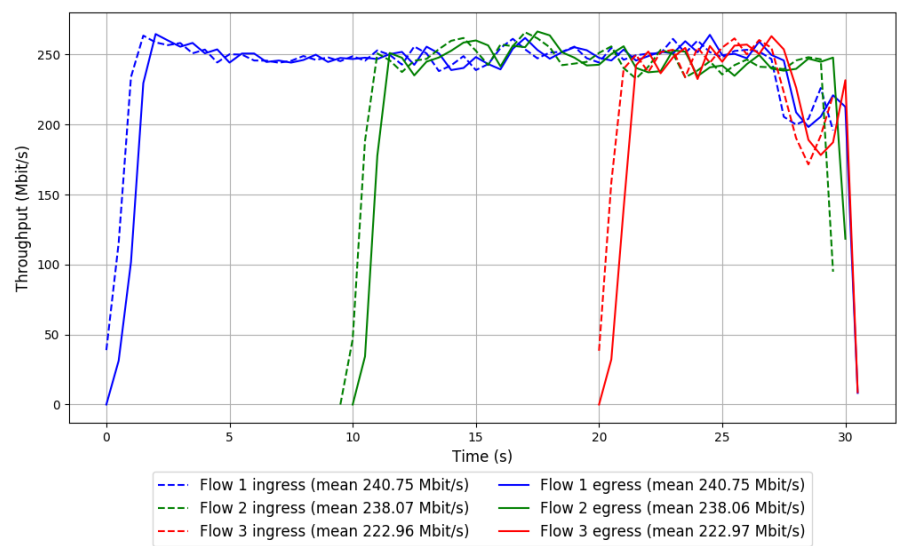


Run 4: Statistics of TaoVA-100x

Start at: 2018-12-21 00:26:38
End at: 2018-12-21 00:27:08
Local clock offset: -0.127 ms
Remote clock offset: -0.068 ms

Below is generated by plot.py at 2018-12-21 04:09:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 473.08 Mbit/s
95th percentile per-packet one-way delay: 48.636 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 240.75 Mbit/s
95th percentile per-packet one-way delay: 48.511 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 238.06 Mbit/s
95th percentile per-packet one-way delay: 49.012 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 222.97 Mbit/s
95th percentile per-packet one-way delay: 47.947 ms
Loss rate: 0.00%

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

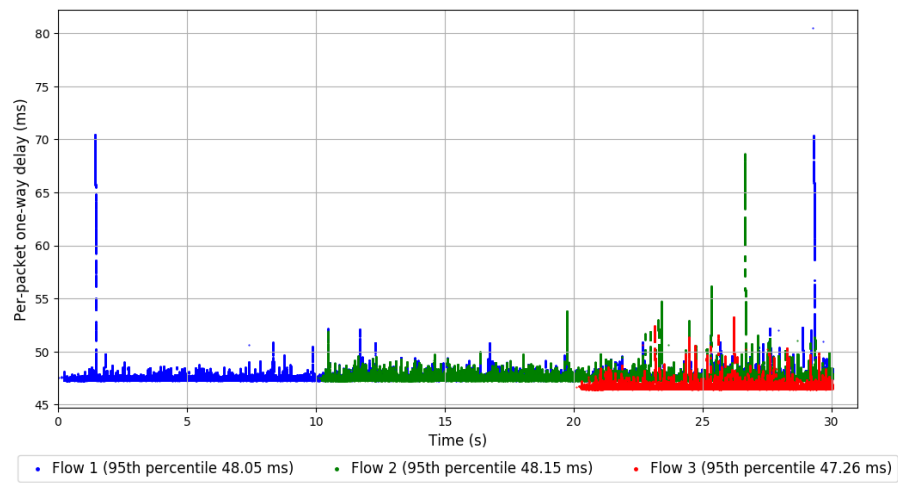
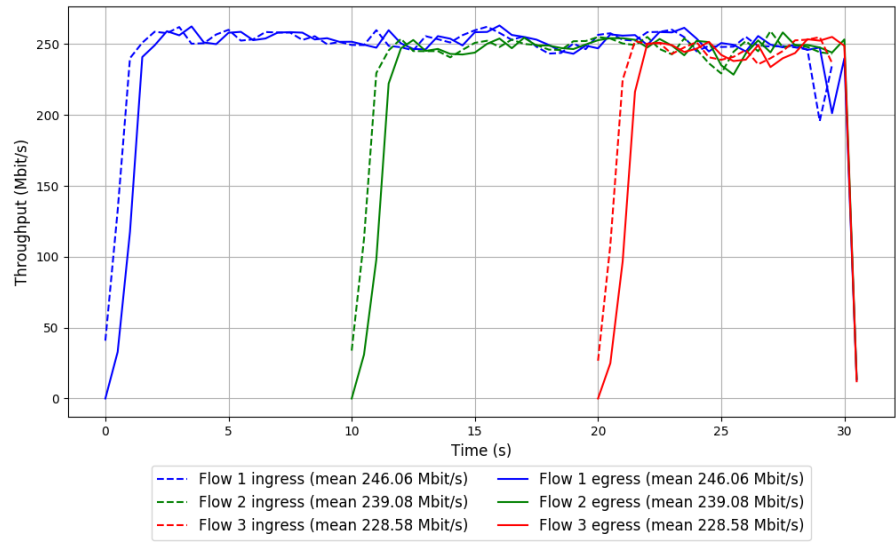


Run 5: Statistics of TaoVA-100x

Start at: 2018-12-21 00:59:50
End at: 2018-12-21 01:00:20
Local clock offset: -0.131 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2018-12-21 04:10:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 481.00 Mbit/s
95th percentile per-packet one-way delay: 48.029 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 246.06 Mbit/s
95th percentile per-packet one-way delay: 48.047 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 239.08 Mbit/s
95th percentile per-packet one-way delay: 48.151 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 228.58 Mbit/s
95th percentile per-packet one-way delay: 47.259 ms
Loss rate: 0.00%

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

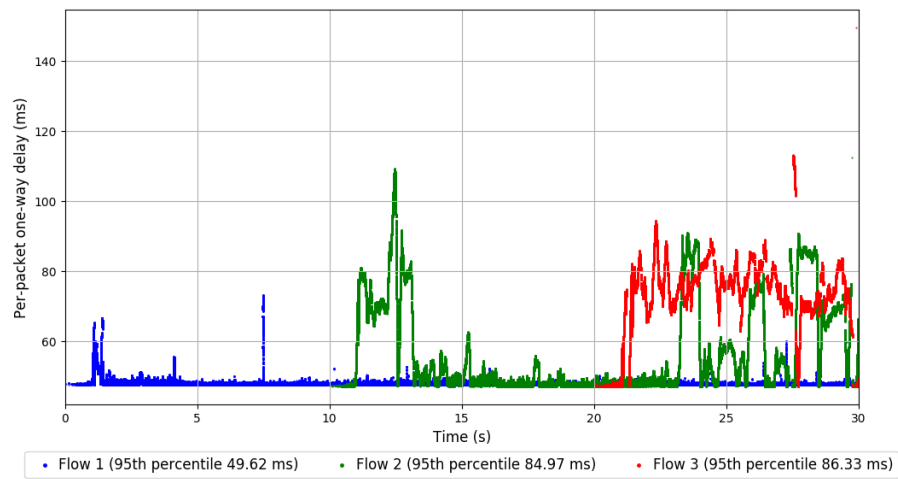
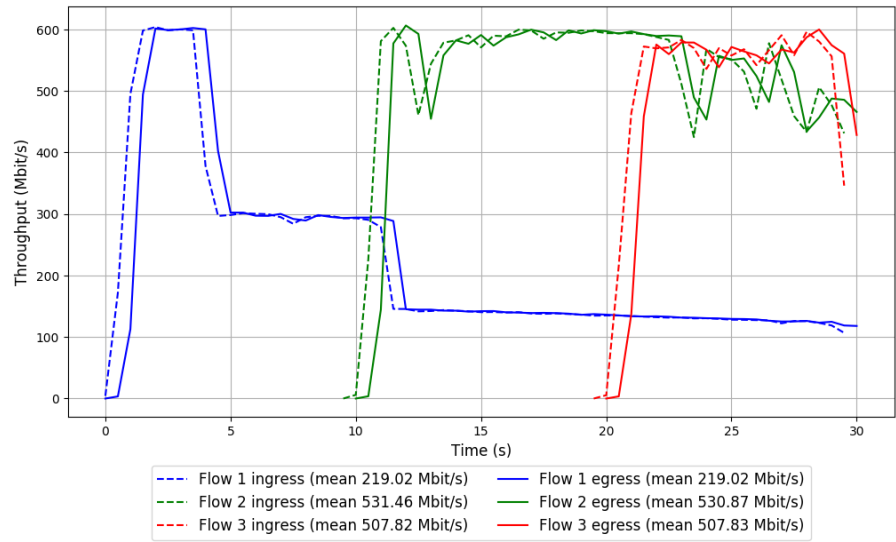


Run 1: Statistics of TCP Vegas

Start at: 2018-12-20 23:07:57
End at: 2018-12-20 23:08:27
Local clock offset: 0.006 ms
Remote clock offset: -0.144 ms

Below is generated by plot.py at 2018-12-21 04:10:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 742.08 Mbit/s
95th percentile per-packet one-way delay: 84.208 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 219.02 Mbit/s
95th percentile per-packet one-way delay: 49.625 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 530.87 Mbit/s
95th percentile per-packet one-way delay: 84.973 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 507.83 Mbit/s
95th percentile per-packet one-way delay: 86.326 ms
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link

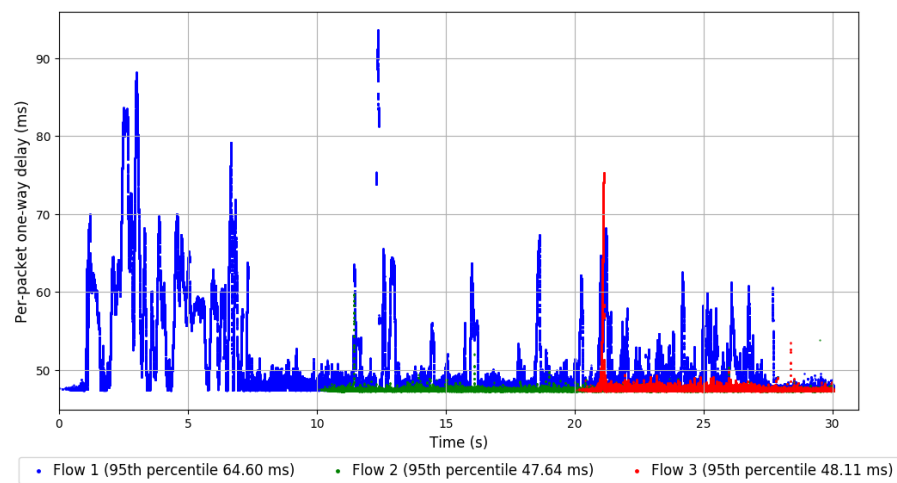
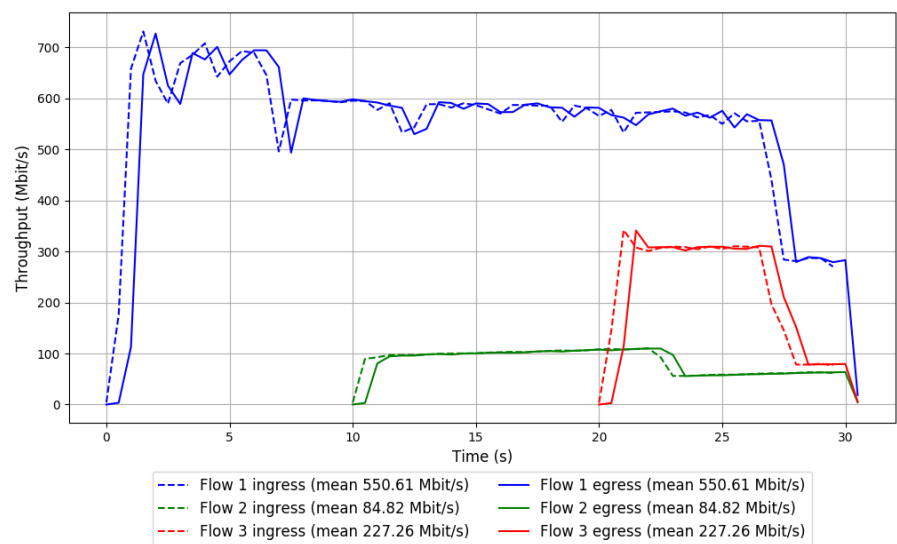


Run 2: Statistics of TCP Vegas

Start at: 2018-12-20 23:40:48
End at: 2018-12-20 23:41:18
Local clock offset: -0.089 ms
Remote clock offset: -0.163 ms

Below is generated by plot.py at 2018-12-21 04:15:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 682.61 Mbit/s
95th percentile per-packet one-way delay: 63.669 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 550.61 Mbit/s
95th percentile per-packet one-way delay: 64.600 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 84.82 Mbit/s
95th percentile per-packet one-way delay: 47.642 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 227.26 Mbit/s
95th percentile per-packet one-way delay: 48.108 ms
Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link

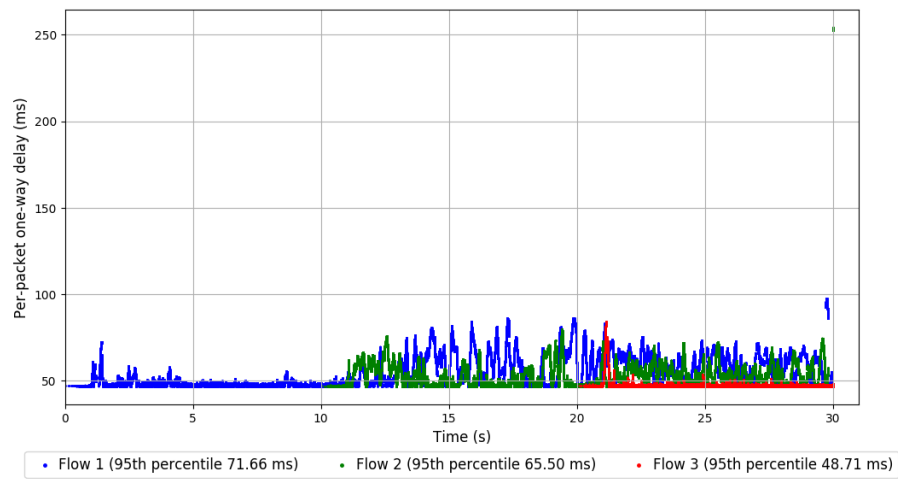
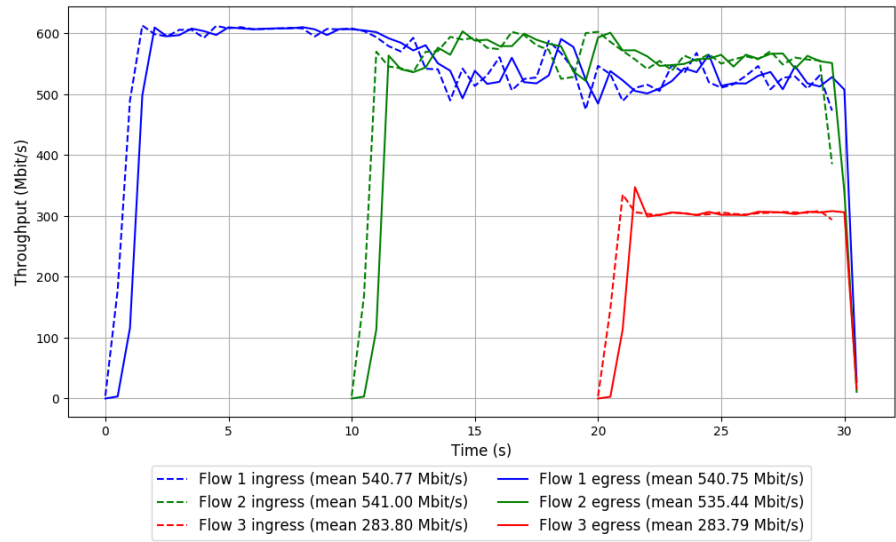


Run 3: Statistics of TCP Vegas

Start at: 2018-12-21 00:13:37
End at: 2018-12-21 00:14:07
Local clock offset: 0.338 ms
Remote clock offset: -0.103 ms

Below is generated by plot.py at 2018-12-21 04:26:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 991.74 Mbit/s
95th percentile per-packet one-way delay: 69.293 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 540.75 Mbit/s
95th percentile per-packet one-way delay: 71.664 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 535.44 Mbit/s
95th percentile per-packet one-way delay: 65.499 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 283.79 Mbit/s
95th percentile per-packet one-way delay: 48.706 ms
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link

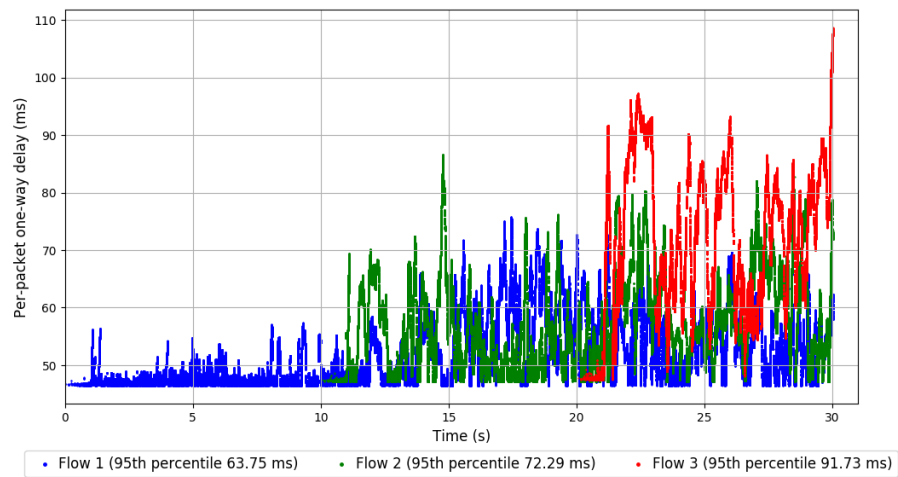
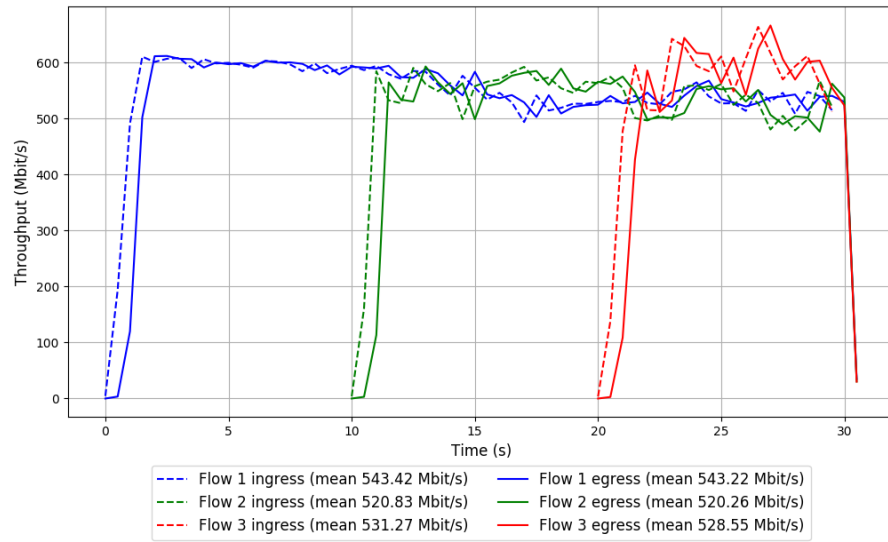


Run 4: Statistics of TCP Vegas

Start at: 2018-12-21 00:46:55
End at: 2018-12-21 00:47:25
Local clock offset: -0.161 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2018-12-21 04:28:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 1065.37 Mbit/s
95th percentile per-packet one-way delay: 80.354 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 543.22 Mbit/s
95th percentile per-packet one-way delay: 63.754 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 520.26 Mbit/s
95th percentile per-packet one-way delay: 72.287 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 528.55 Mbit/s
95th percentile per-packet one-way delay: 91.734 ms
Loss rate: 0.50%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-12-21 01:19:58

End at: 2018-12-21 01:20:28

Local clock offset: -0.106 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-12-21 04:28:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 859.04 Mbit/s

95th percentile per-packet one-way delay: 69.770 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 511.57 Mbit/s

95th percentile per-packet one-way delay: 65.422 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 290.62 Mbit/s

95th percentile per-packet one-way delay: 47.255 ms

Loss rate: 0.00%

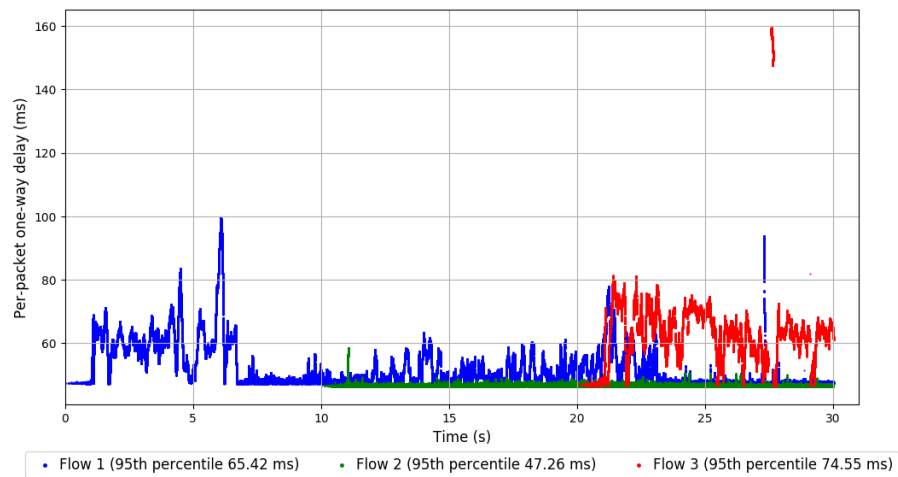
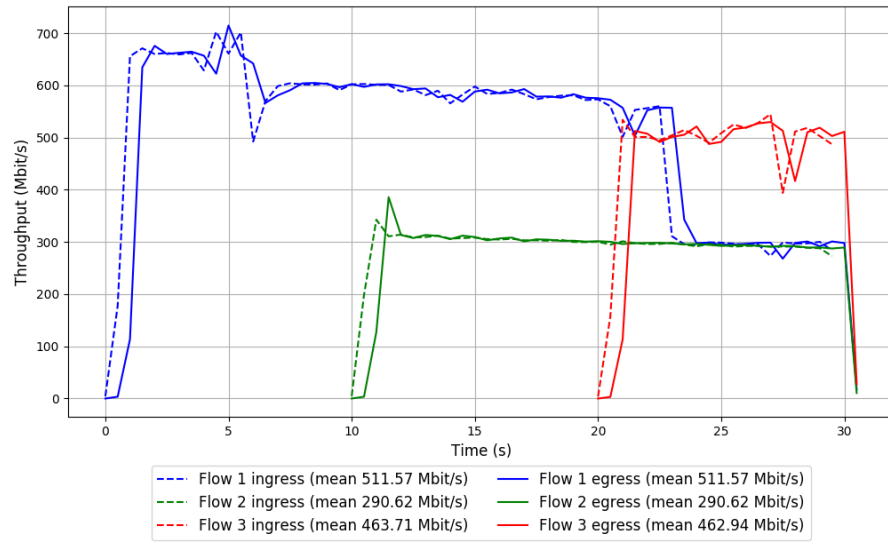
-- Flow 3:

Average throughput: 462.94 Mbit/s

95th percentile per-packet one-way delay: 74.553 ms

Loss rate: 0.16%

Run 5: Report of TCP Vegas — Data Link

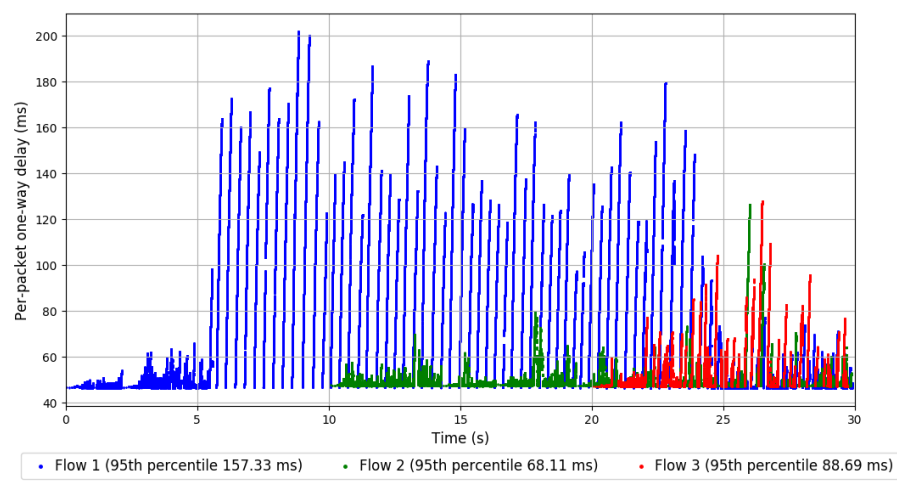
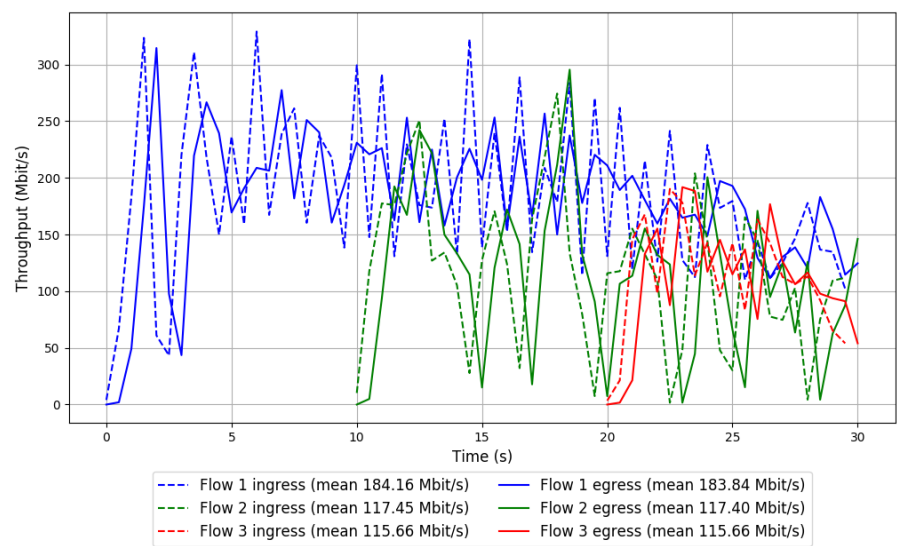


Run 1: Statistics of Verus

Start at: 2018-12-20 22:46:10
End at: 2018-12-20 22:46:40
Local clock offset: -0.089 ms
Remote clock offset: -0.118 ms

Below is generated by plot.py at 2018-12-21 04:28:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 299.09 Mbit/s
95th percentile per-packet one-way delay: 147.239 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 183.84 Mbit/s
95th percentile per-packet one-way delay: 157.333 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 117.40 Mbit/s
95th percentile per-packet one-way delay: 68.111 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 115.66 Mbit/s
95th percentile per-packet one-way delay: 88.687 ms
Loss rate: 0.00%

Run 1: Report of Verus — Data Link

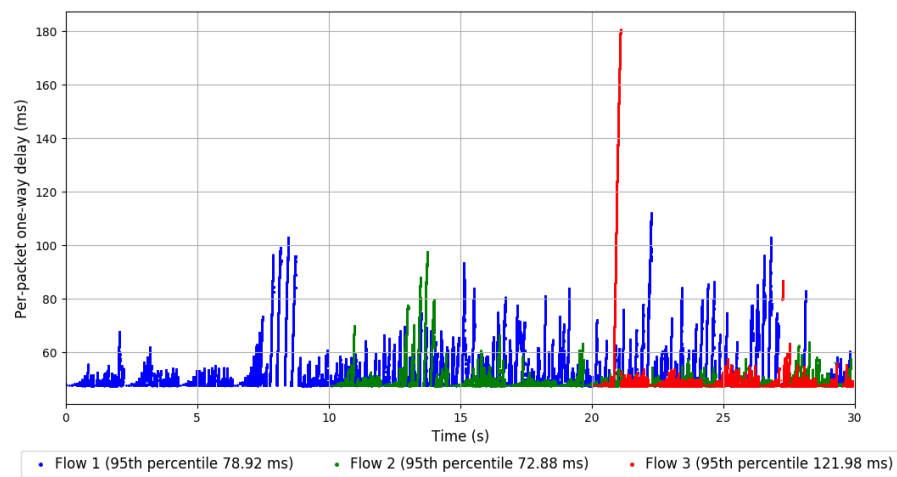
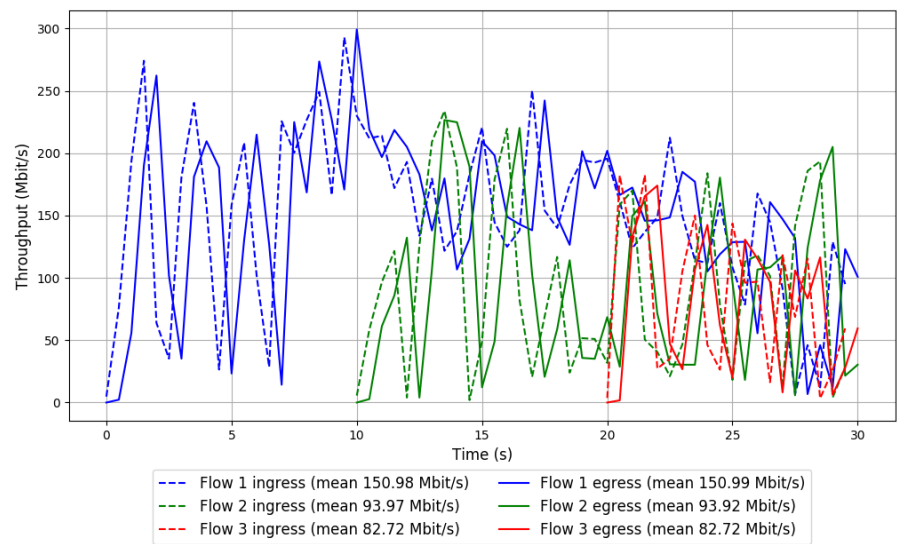


Run 2: Statistics of Verus

Start at: 2018-12-20 23:19:00
End at: 2018-12-20 23:19:30
Local clock offset: -0.421 ms
Remote clock offset: -0.127 ms

Below is generated by plot.py at 2018-12-21 04:28:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 240.52 Mbit/s
95th percentile per-packet one-way delay: 78.028 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 150.99 Mbit/s
95th percentile per-packet one-way delay: 78.921 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 93.92 Mbit/s
95th percentile per-packet one-way delay: 72.882 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 82.72 Mbit/s
95th percentile per-packet one-way delay: 121.985 ms
Loss rate: 0.00%

Run 2: Report of Verus — Data Link

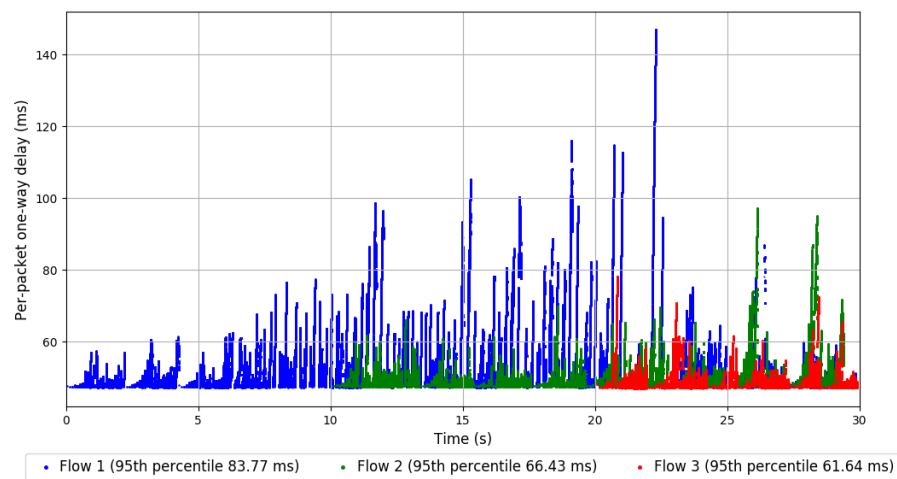
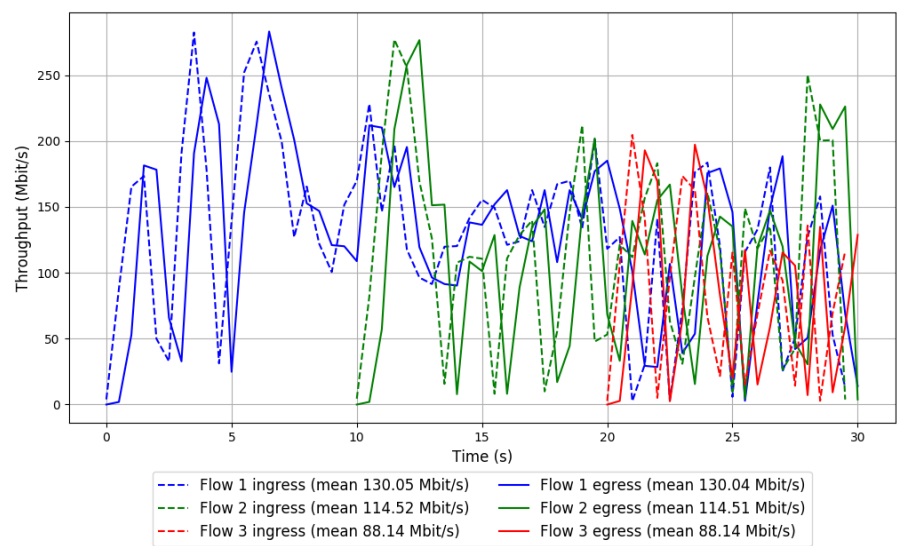


Run 3: Statistics of Verus

Start at: 2018-12-20 23:51:48
End at: 2018-12-20 23:52:18
Local clock offset: -0.056 ms
Remote clock offset: -0.112 ms

Below is generated by plot.py at 2018-12-21 04:28:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 234.78 Mbit/s
95th percentile per-packet one-way delay: 76.637 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 130.04 Mbit/s
95th percentile per-packet one-way delay: 83.766 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 114.51 Mbit/s
95th percentile per-packet one-way delay: 66.432 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 88.14 Mbit/s
95th percentile per-packet one-way delay: 61.641 ms
Loss rate: 0.00%

Run 3: Report of Verus — Data Link

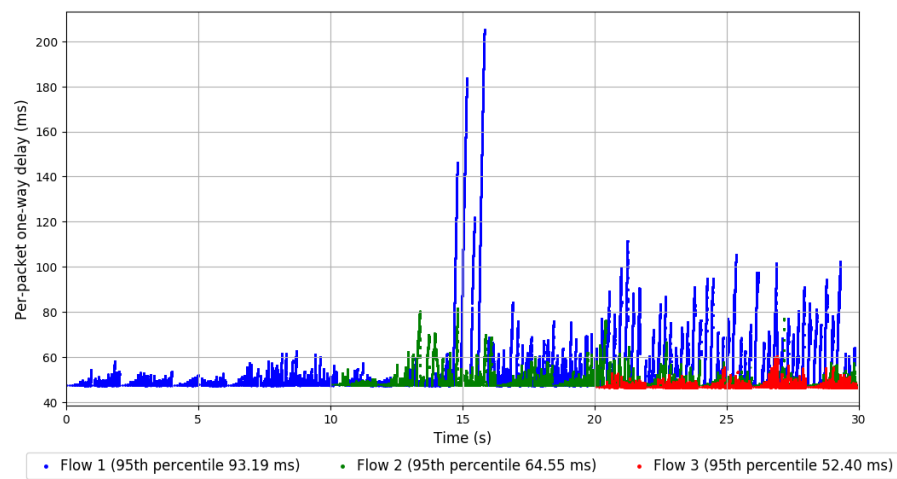
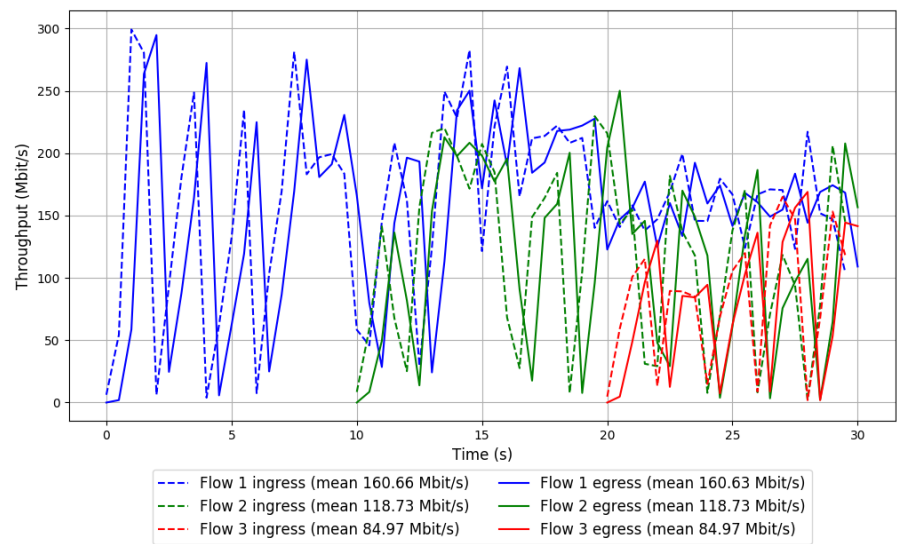


Run 4: Statistics of Verus

Start at: 2018-12-21 00:25:01
End at: 2018-12-21 00:25:31
Local clock offset: -0.088 ms
Remote clock offset: -0.078 ms

Below is generated by plot.py at 2018-12-21 04:28:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 267.19 Mbit/s
95th percentile per-packet one-way delay: 82.986 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 160.63 Mbit/s
95th percentile per-packet one-way delay: 93.194 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 118.73 Mbit/s
95th percentile per-packet one-way delay: 64.550 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 84.97 Mbit/s
95th percentile per-packet one-way delay: 52.398 ms
Loss rate: 0.00%

Run 4: Report of Verus — Data Link

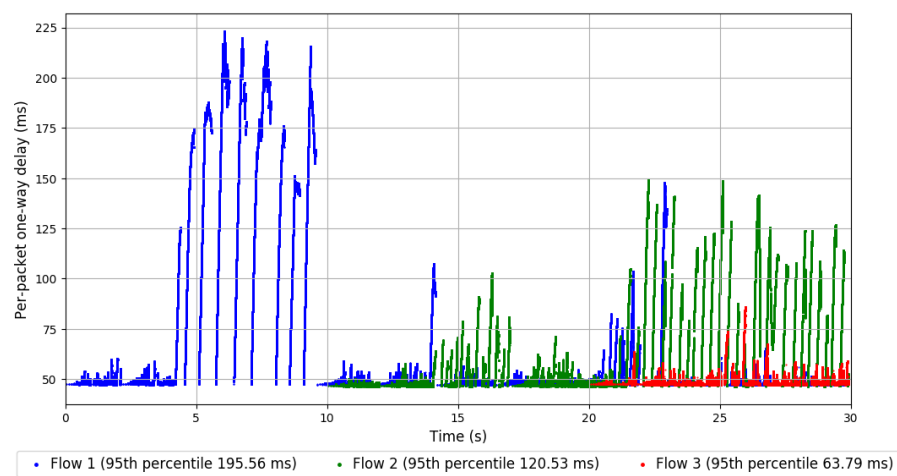
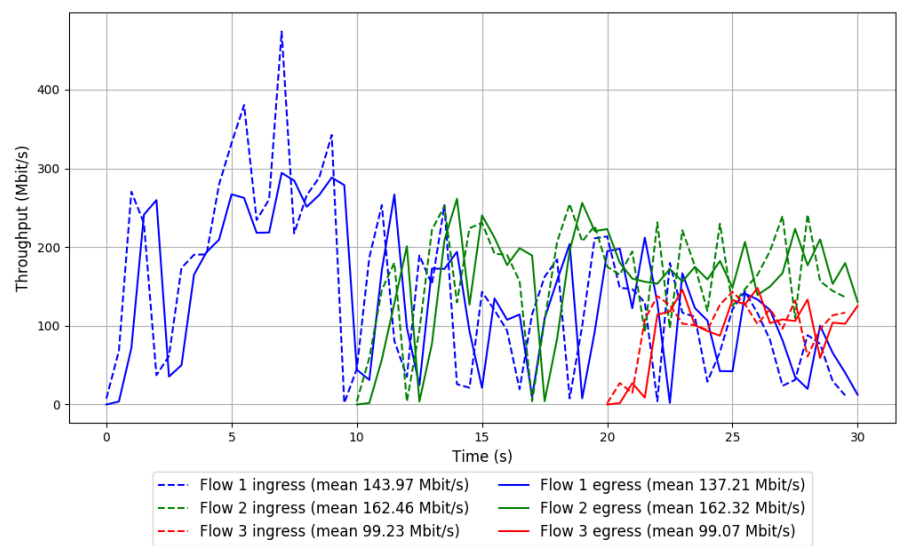


Run 5: Statistics of Verus

Start at: 2018-12-21 00:58:12
End at: 2018-12-21 00:58:42
Local clock offset: -0.14 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2018-12-21 04:28:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 277.44 Mbit/s
95th percentile per-packet one-way delay: 179.689 ms
Loss rate: 2.43%
-- Flow 1:
Average throughput: 137.21 Mbit/s
95th percentile per-packet one-way delay: 195.559 ms
Loss rate: 4.69%
-- Flow 2:
Average throughput: 162.32 Mbit/s
95th percentile per-packet one-way delay: 120.532 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 99.07 Mbit/s
95th percentile per-packet one-way delay: 63.787 ms
Loss rate: 0.18%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-12-20 22:50:58

End at: 2018-12-20 22:51:28

Local clock offset: -0.041 ms

Remote clock offset: -0.09 ms

Below is generated by plot.py at 2018-12-21 04:29:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 552.81 Mbit/s

95th percentile per-packet one-way delay: 49.726 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 350.12 Mbit/s

95th percentile per-packet one-way delay: 50.522 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 289.05 Mbit/s

95th percentile per-packet one-way delay: 49.393 ms

Loss rate: 0.00%

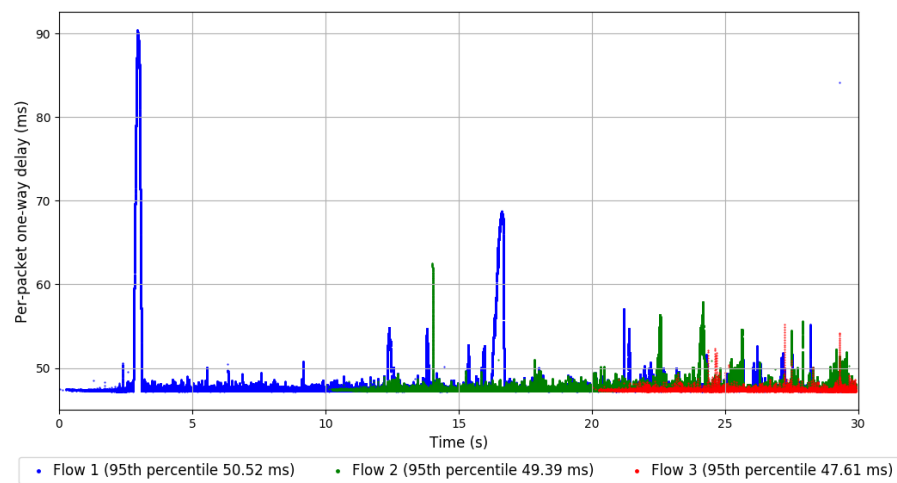
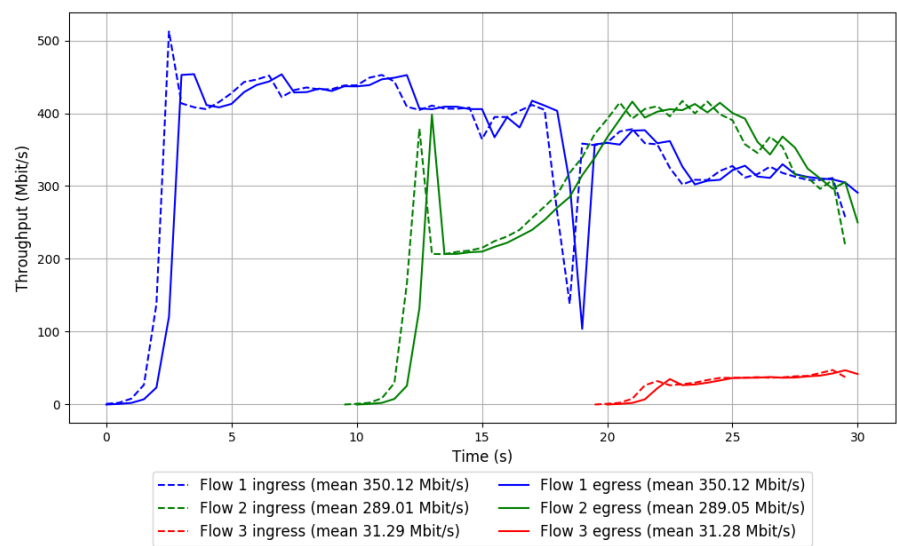
-- Flow 3:

Average throughput: 31.28 Mbit/s

95th percentile per-packet one-way delay: 47.608 ms

Loss rate: 0.02%

Run 1: Report of PCC-Vivace — Data Link

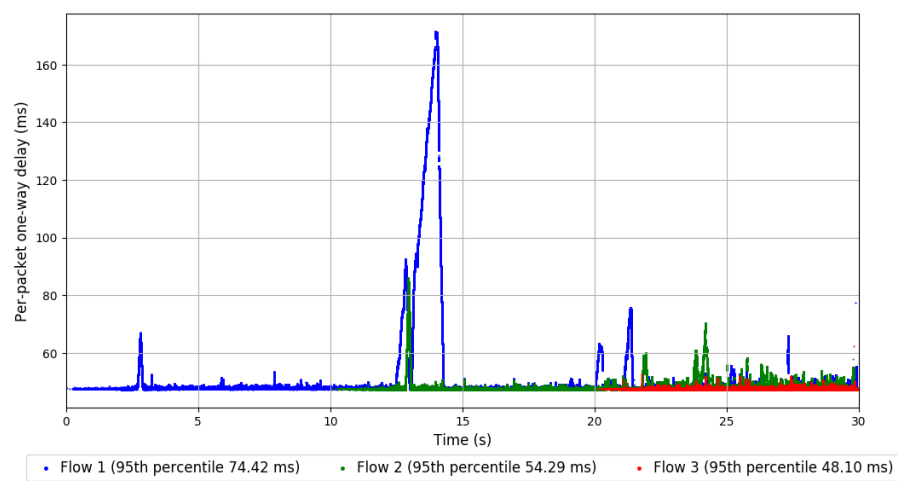
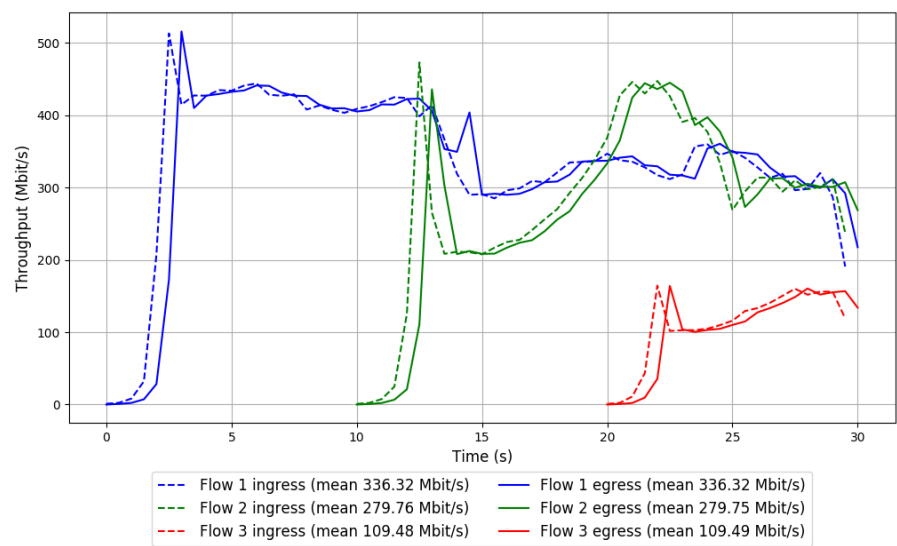


Run 2: Statistics of PCC-Vivace

Start at: 2018-12-20 23:23:44
End at: 2018-12-20 23:24:14
Local clock offset: -0.076 ms
Remote clock offset: -0.099 ms

Below is generated by plot.py at 2018-12-21 04:29:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 558.30 Mbit/s
95th percentile per-packet one-way delay: 60.660 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 336.32 Mbit/s
95th percentile per-packet one-way delay: 74.420 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 279.75 Mbit/s
95th percentile per-packet one-way delay: 54.293 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 109.49 Mbit/s
95th percentile per-packet one-way delay: 48.099 ms
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link

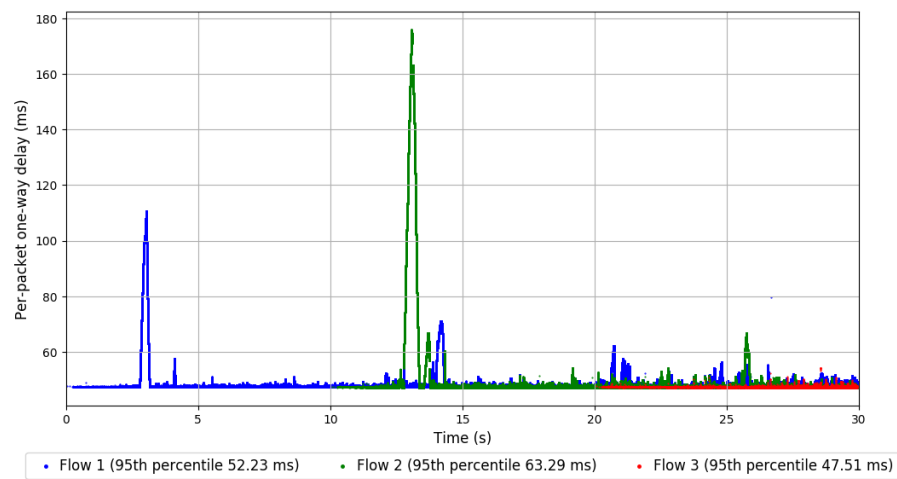
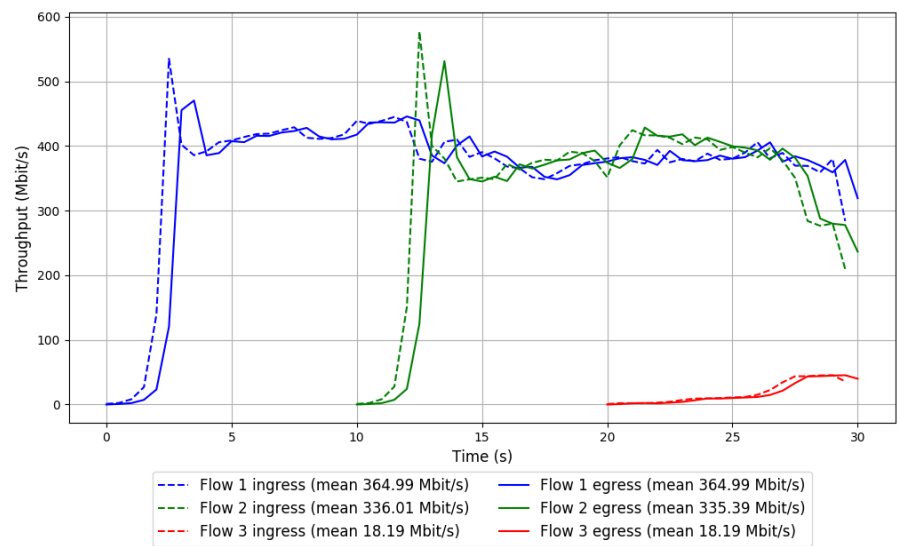


Run 3: Statistics of PCC-Vivace

Start at: 2018-12-20 23:56:32
End at: 2018-12-20 23:57:02
Local clock offset: -0.032 ms
Remote clock offset: -0.101 ms

Below is generated by plot.py at 2018-12-21 04:30:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 594.03 Mbit/s
95th percentile per-packet one-way delay: 53.944 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 364.99 Mbit/s
95th percentile per-packet one-way delay: 52.234 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 335.39 Mbit/s
95th percentile per-packet one-way delay: 63.287 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 18.19 Mbit/s
95th percentile per-packet one-way delay: 47.513 ms
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link

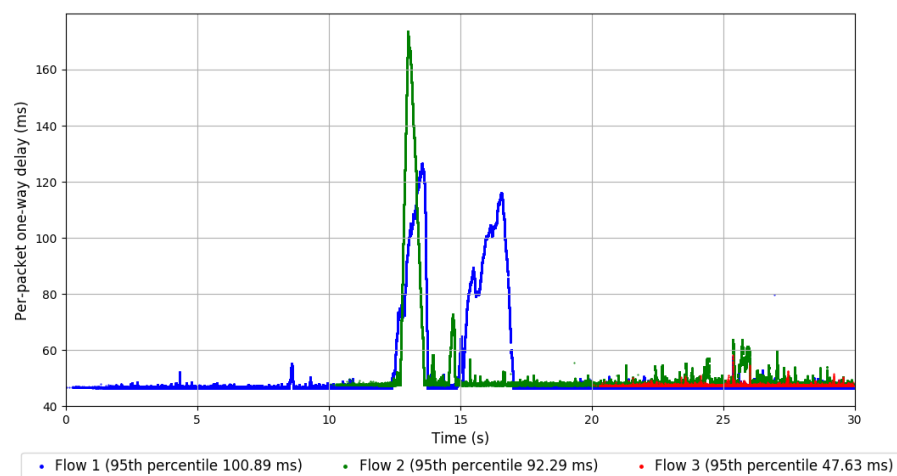
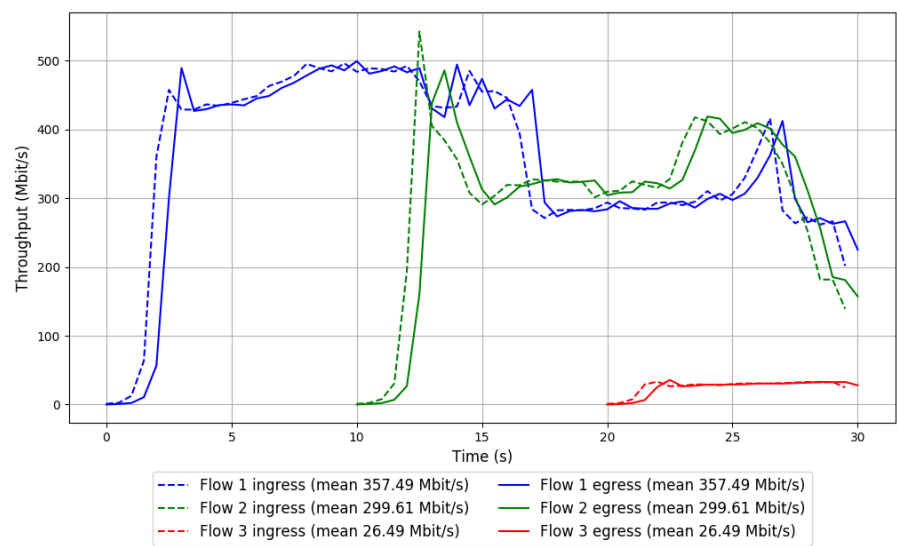


Run 4: Statistics of PCC-Vivace

Start at: 2018-12-21 00:29:47
End at: 2018-12-21 00:30:17
Local clock offset: -0.121 ms
Remote clock offset: -0.058 ms

Below is generated by plot.py at 2018-12-21 04:30:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 565.45 Mbit/s
95th percentile per-packet one-way delay: 100.244 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 357.49 Mbit/s
95th percentile per-packet one-way delay: 100.885 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 299.61 Mbit/s
95th percentile per-packet one-way delay: 92.293 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 26.49 Mbit/s
95th percentile per-packet one-way delay: 47.626 ms
Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link

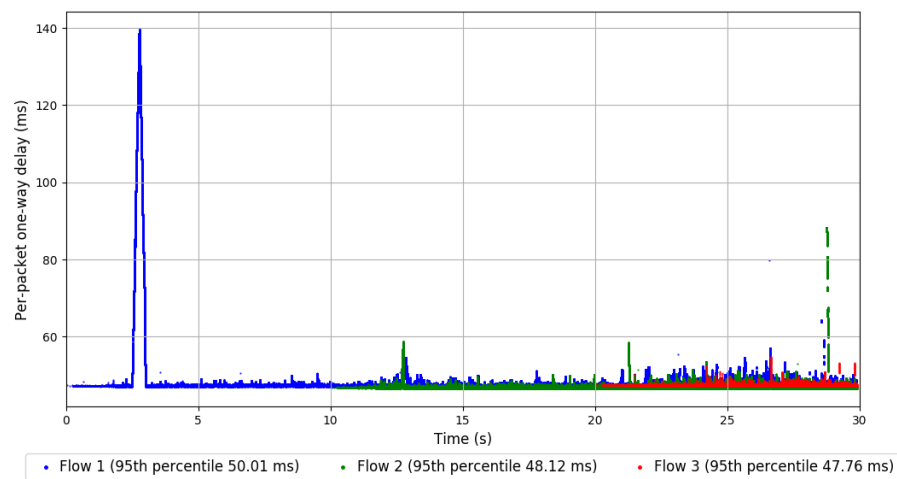
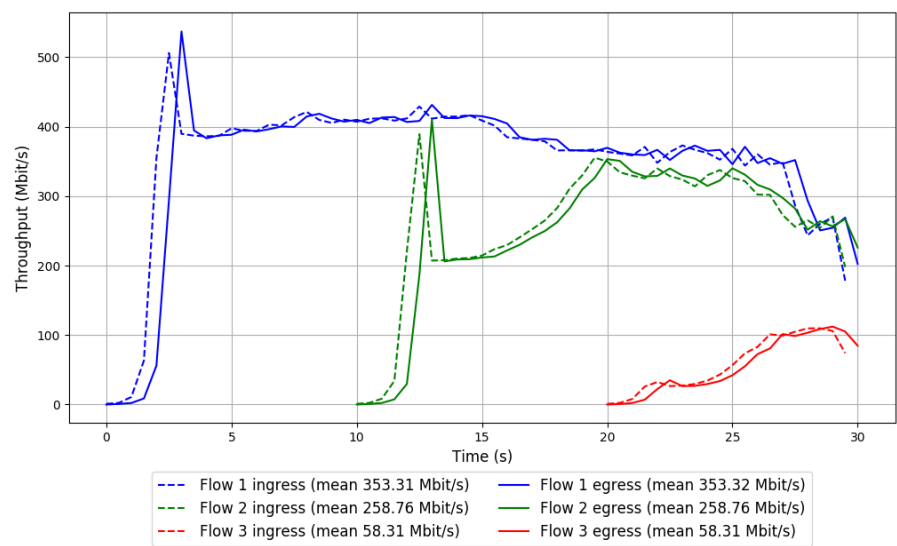


Run 5: Statistics of PCC-Vivace

Start at: 2018-12-21 01:02:59
End at: 2018-12-21 01:03:29
Local clock offset: -0.091 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2018-12-21 04:30:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 544.63 Mbit/s
95th percentile per-packet one-way delay: 49.280 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 353.32 Mbit/s
95th percentile per-packet one-way delay: 50.009 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 258.76 Mbit/s
95th percentile per-packet one-way delay: 48.116 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 58.31 Mbit/s
95th percentile per-packet one-way delay: 47.762 ms
Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

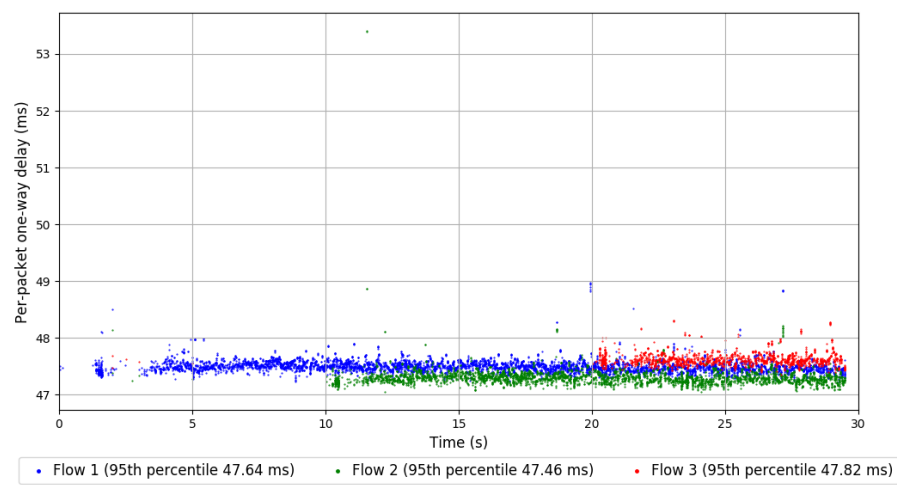
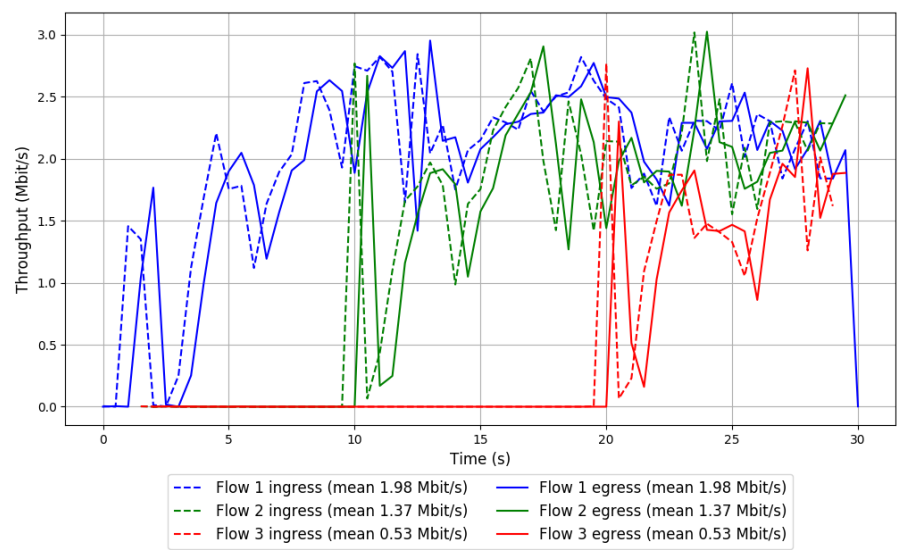


Run 1: Statistics of WebRTC media

Start at: 2018-12-20 22:43:09
End at: 2018-12-20 22:43:39
Local clock offset: -0.098 ms
Remote clock offset: -0.146 ms

Below is generated by plot.py at 2018-12-21 04:30:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.75 Mbit/s
95th percentile per-packet one-way delay: 47.680 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 47.641 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.37 Mbit/s
95th percentile per-packet one-way delay: 47.461 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 47.816 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-12-20 23:15:52

End at: 2018-12-20 23:16:22

Local clock offset: -0.036 ms

Remote clock offset: -0.11 ms

Below is generated by plot.py at 2018-12-21 04:30:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 47.375 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 46.853 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 46.739 ms

Loss rate: 0.00%

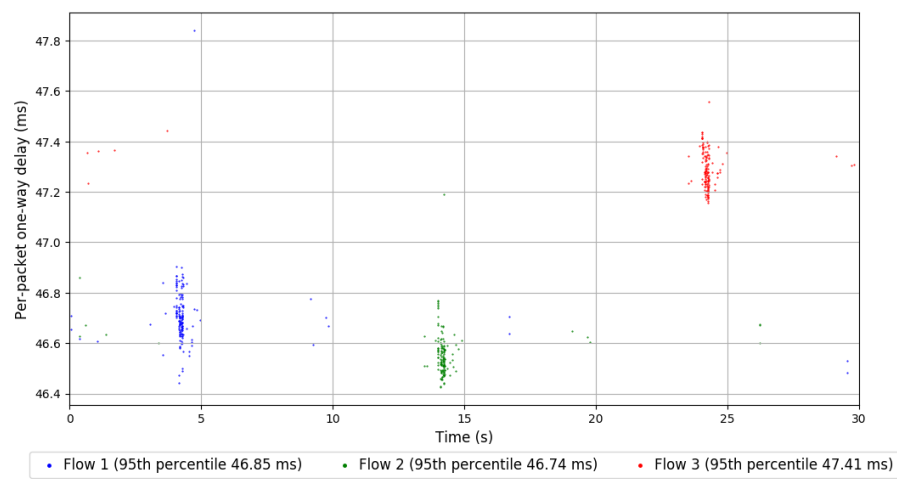
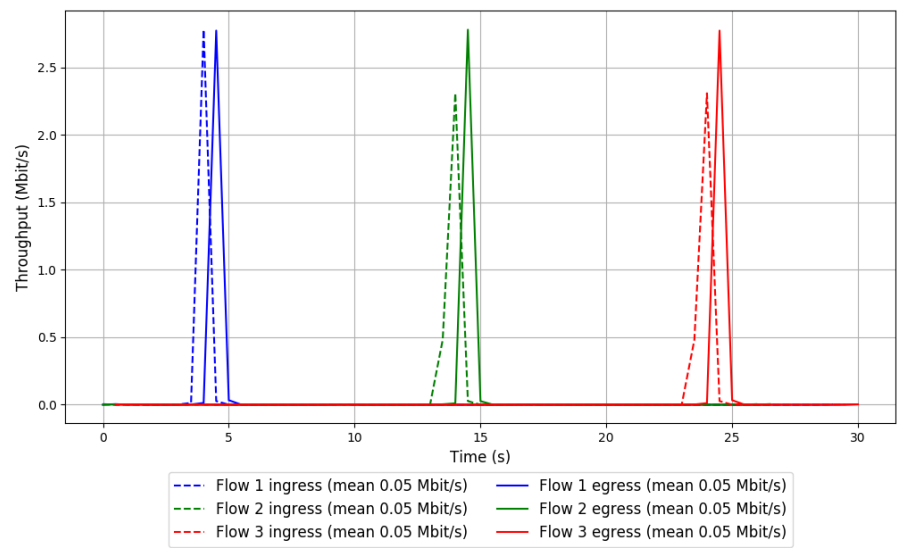
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 47.413 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

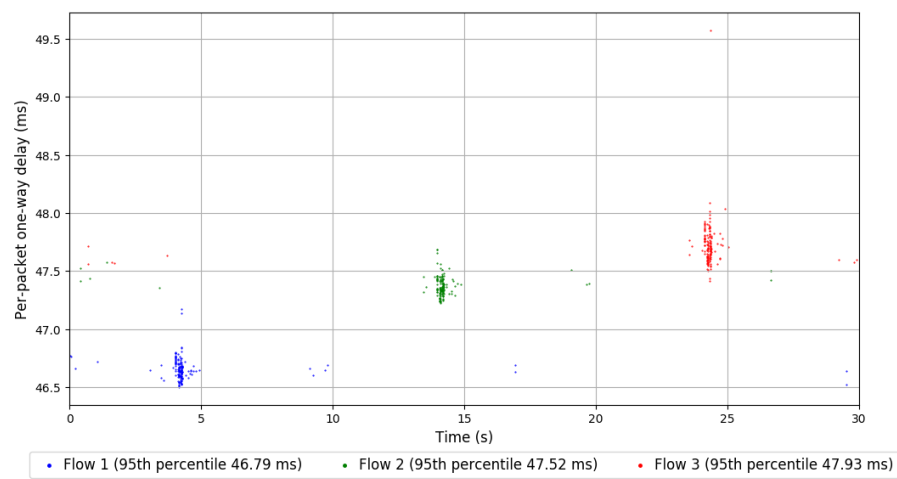
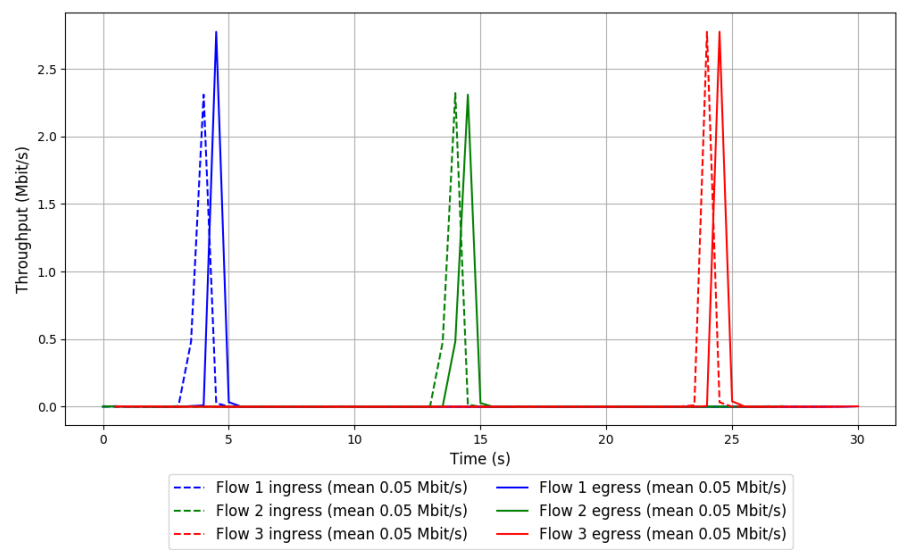


Run 3: Statistics of WebRTC media

Start at: 2018-12-20 23:48:37
End at: 2018-12-20 23:49:07
Local clock offset: -0.063 ms
Remote clock offset: -0.113 ms

Below is generated by plot.py at 2018-12-21 04:30:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 47.846 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 46.793 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.523 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.926 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

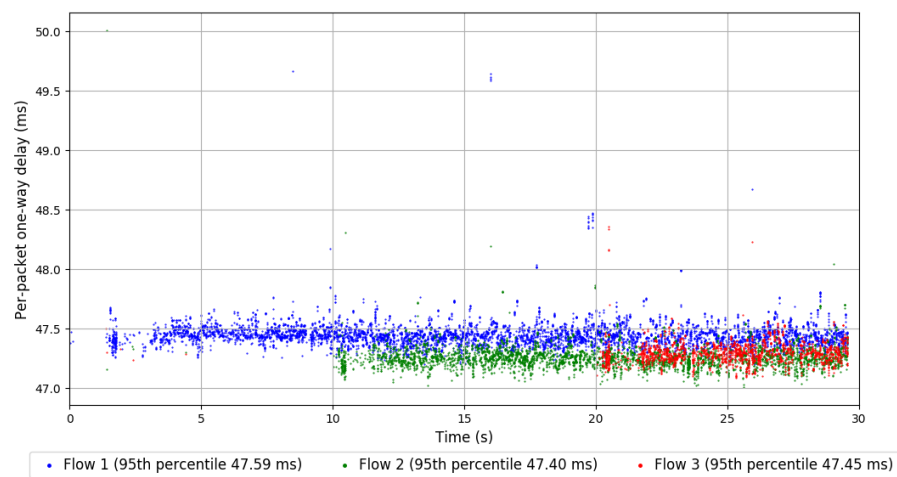
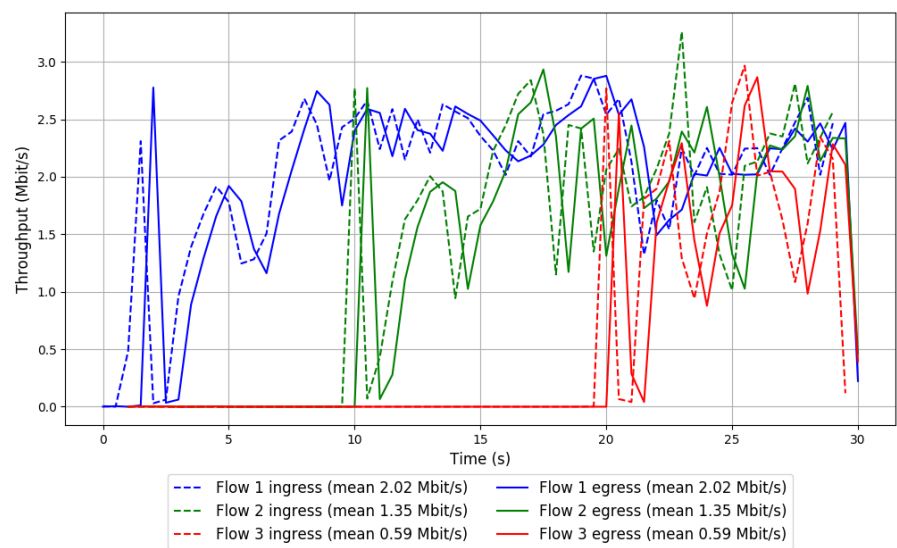


Run 4: Statistics of WebRTC media

Start at: 2018-12-21 00:21:51
End at: 2018-12-21 00:22:21
Local clock offset: -0.081 ms
Remote clock offset: -0.134 ms

Below is generated by plot.py at 2018-12-21 04:30:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 47.547 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 47.586 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.35 Mbit/s
95th percentile per-packet one-way delay: 47.400 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 47.448 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-12-21 00:55:03
End at: 2018-12-21 00:55:33
Local clock offset: -0.167 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-12-21 04:30:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 47.592 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.636 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.329 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.601 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

