

Pantheon Report

Generated at 2018-12-21 04:20:27 (UTC).

Data path: GCE Sydney on **ens4** (*local*) → GCE Tokyo 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:

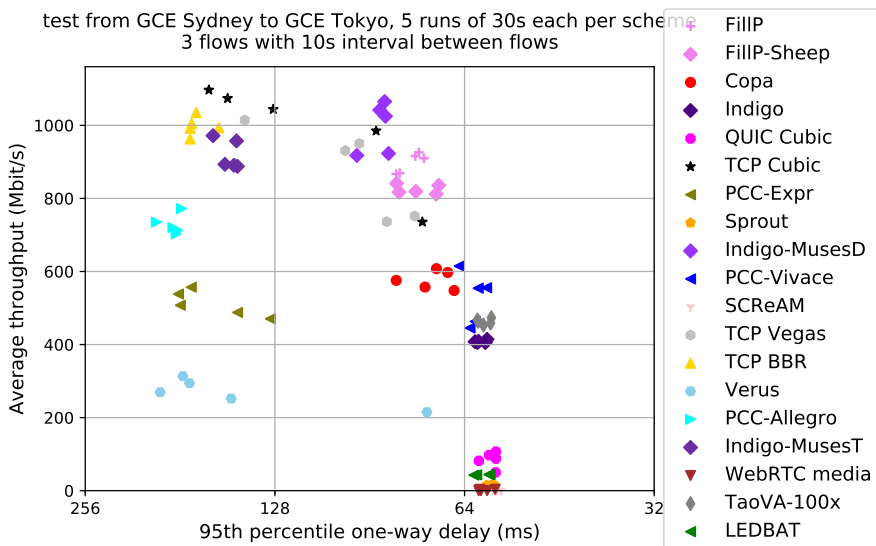
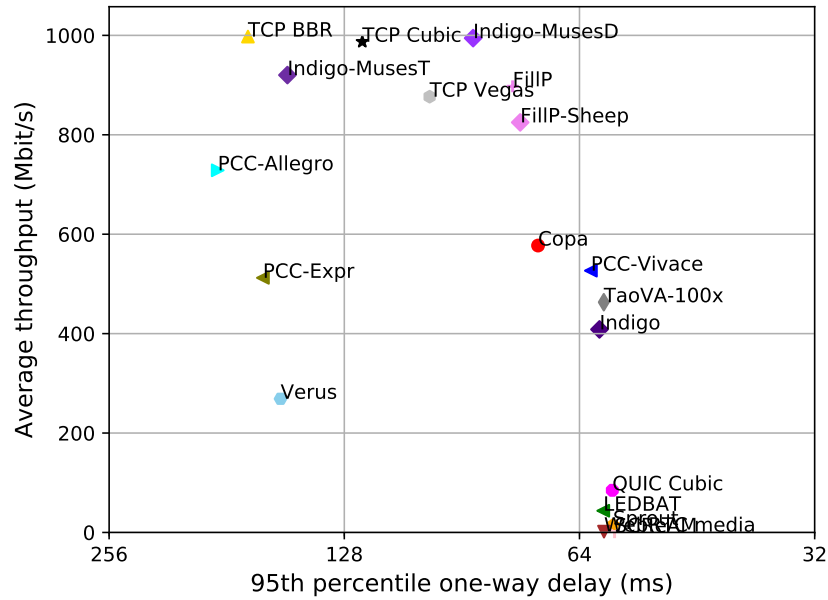
```
Linux 4.15.0-1025-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

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 Sydney to GCE Tokyo, 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	503.85	510.13	462.86	166.56	175.93	170.62	0.88	1.45	1.82
Copa	5	305.18	287.42	241.90	67.57	76.95	84.67	0.00	0.00	0.01
TCP Cubic	5	530.07	465.39	442.86	105.86	112.38	111.11	0.05	0.23	0.48
FillP	5	571.44	359.64	261.87	81.59	61.34	60.47	0.08	0.00	0.00
FillP-Sheep	5	534.73	320.03	233.41	83.54	61.44	61.32	0.09	0.02	0.00
Indigo	5	216.49	201.83	179.94	59.57	59.63	61.03	0.00	0.00	0.01
Indigo-MusesD	5	533.22	500.79	394.64	87.69	89.46	83.97	0.01	0.03	0.12
Indigo-MusesT	5	477.72	510.82	372.65	131.49	142.57	90.21	0.26	0.18	0.17
LEDBAT	5	28.11	18.79	9.38	59.39	58.81	58.40	0.00	0.00	0.00
PCC-Allegro	5	407.16	354.53	261.12	184.19	172.07	123.35	4.31	2.75	0.43
PCC-Expr	5	290.09	258.81	151.33	161.08	152.60	68.22	1.72	2.79	0.01
QUIC Cubic	5	45.92	47.44	22.62	58.04	56.78	56.76	0.00	0.00	0.00
SCReAM	5	0.22	0.22	0.22	57.65	56.78	57.62	0.00	0.00	0.00
Sprout	5	7.75	7.25	7.36	57.37	58.00	57.22	0.00	0.00	0.00
TaoVA-100x	5	238.03	230.62	215.44	59.33	59.56	59.76	0.00	0.00	0.01
TCP Vegas	5	417.50	471.10	437.11	81.70	82.75	103.00	0.01	0.01	0.16
Verus	5	150.05	144.79	69.16	146.99	128.89	87.84	0.85	0.69	0.00
PCC-Vivace	5	312.88	249.96	144.09	61.39	69.49	62.99	0.02	0.01	0.00
WebRTC media	5	0.84	0.56	0.22	57.71	58.27	57.55	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-12-20 22:49:18

End at: 2018-12-20 22:49:48

Local clock offset: -0.087 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2018-12-21 02:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 993.26 Mbit/s

95th percentile per-packet one-way delay: 157.155 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 468.69 Mbit/s

95th percentile per-packet one-way delay: 139.119 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 534.11 Mbit/s

95th percentile per-packet one-way delay: 205.977 ms

Loss rate: 1.88%

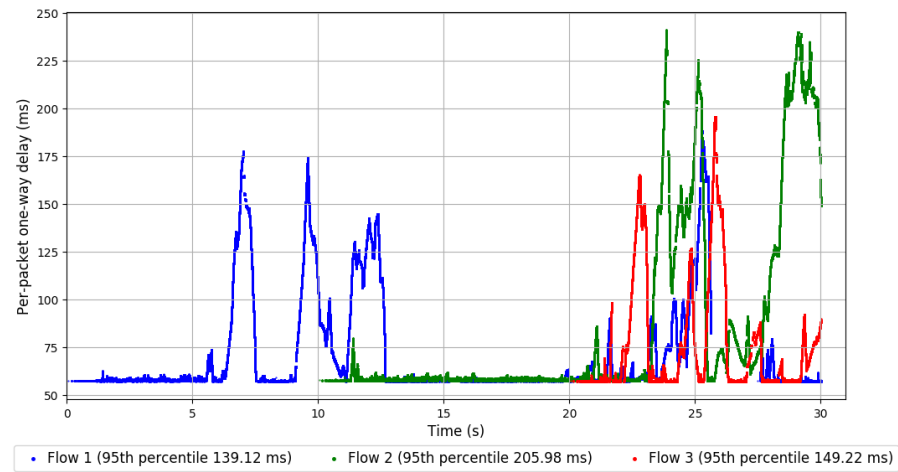
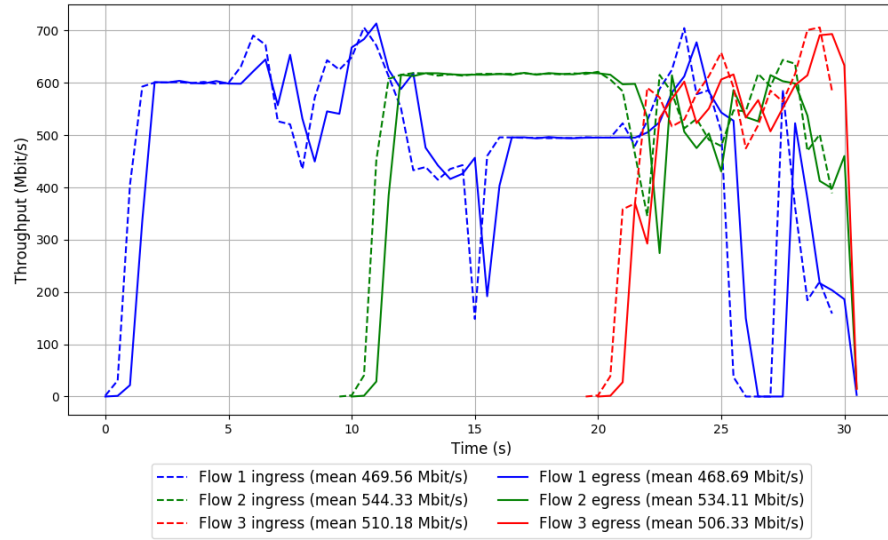
-- Flow 3:

Average throughput: 506.33 Mbit/s

95th percentile per-packet one-way delay: 149.219 ms

Loss rate: 0.74%

Run 1: Report of TCP BBR — Data Link

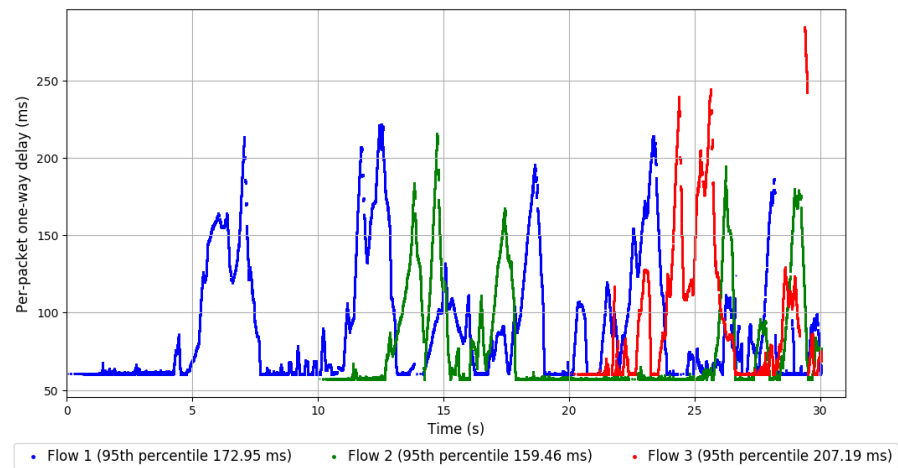
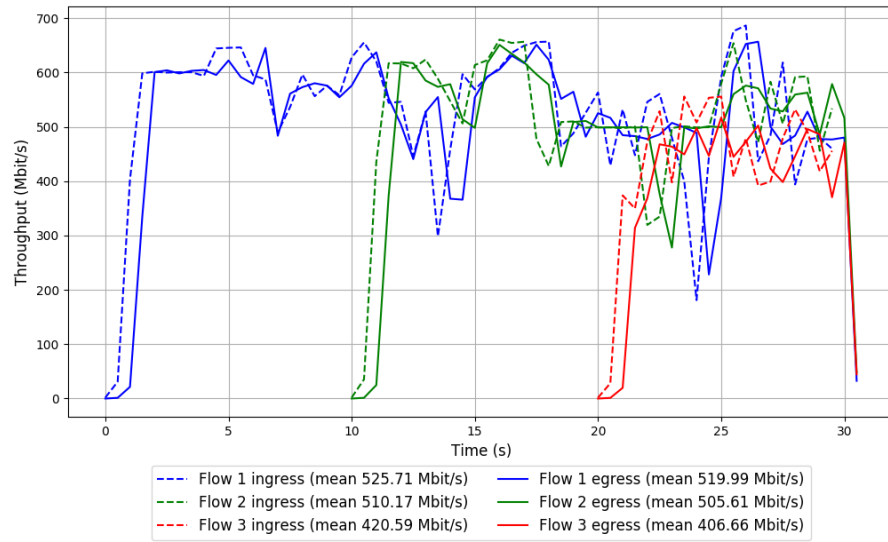


Run 2: Statistics of TCP BBR

Start at: 2018-12-20 23:24:04
End at: 2018-12-20 23:24:34
Local clock offset: -0.128 ms
Remote clock offset: -0.146 ms

Below is generated by plot.py at 2018-12-21 02:07:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 991.99 Mbit/s
95th percentile per-packet one-way delay: 174.457 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 519.99 Mbit/s
95th percentile per-packet one-way delay: 172.949 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 505.61 Mbit/s
95th percentile per-packet one-way delay: 159.460 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 406.66 Mbit/s
95th percentile per-packet one-way delay: 207.190 ms
Loss rate: 3.34%

Run 2: Report of TCP BBR — Data Link

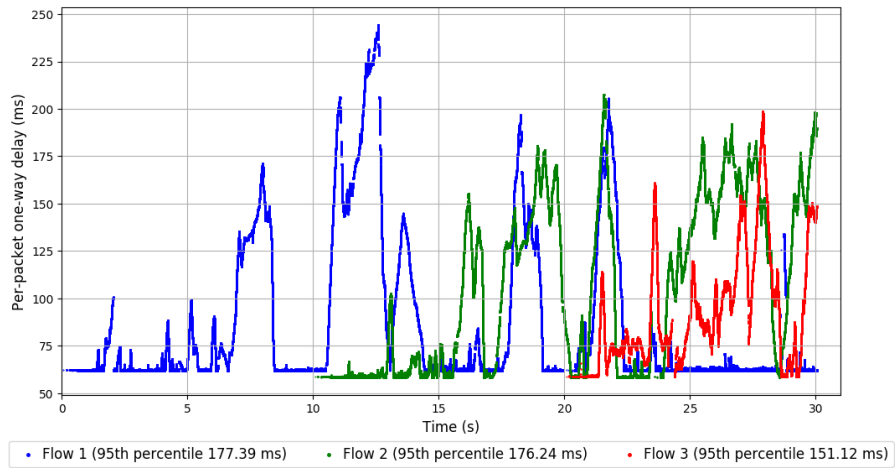
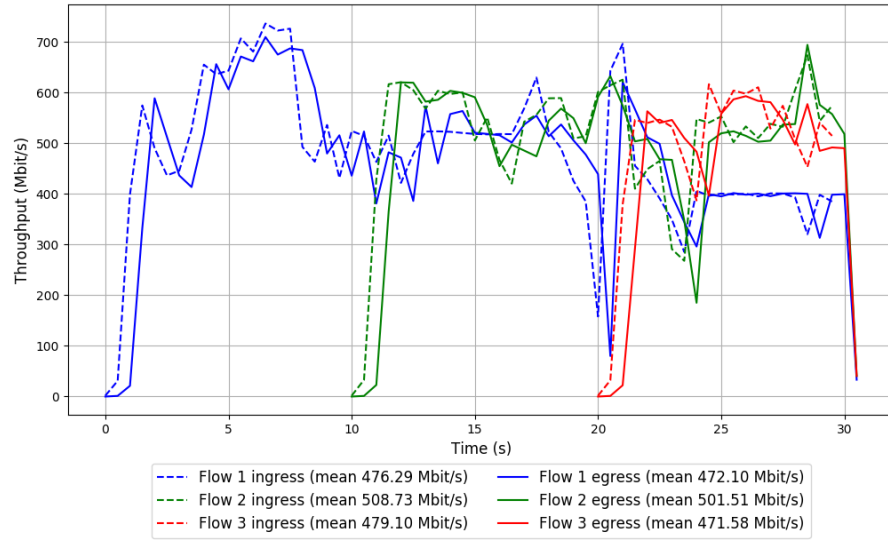


Run 3: Statistics of TCP BBR

Start at: 2018-12-20 23:57:35
End at: 2018-12-20 23:58:05
Local clock offset: -1.746 ms
Remote clock offset: -0.159 ms

Below is generated by plot.py at 2018-12-21 02:07:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 962.67 Mbit/s
95th percentile per-packet one-way delay: 174.462 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 472.10 Mbit/s
95th percentile per-packet one-way delay: 177.391 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 501.51 Mbit/s
95th percentile per-packet one-way delay: 176.243 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 471.58 Mbit/s
95th percentile per-packet one-way delay: 151.120 ms
Loss rate: 1.57%

Run 3: Report of TCP BBR — Data Link

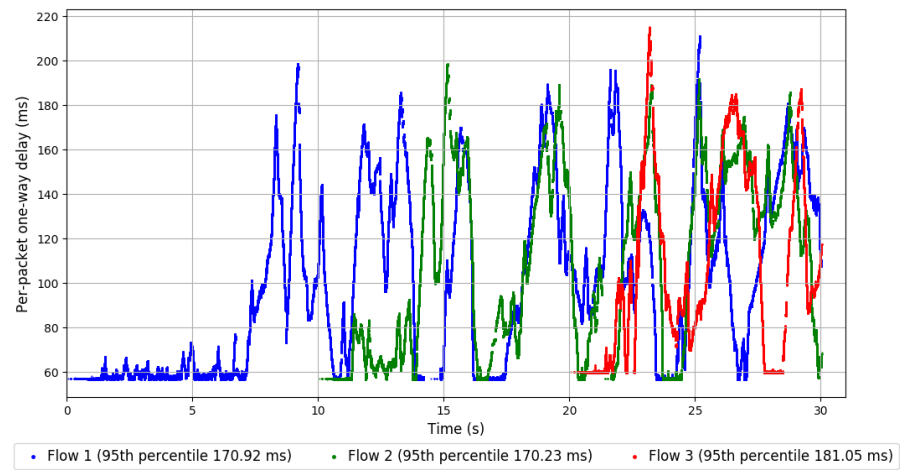
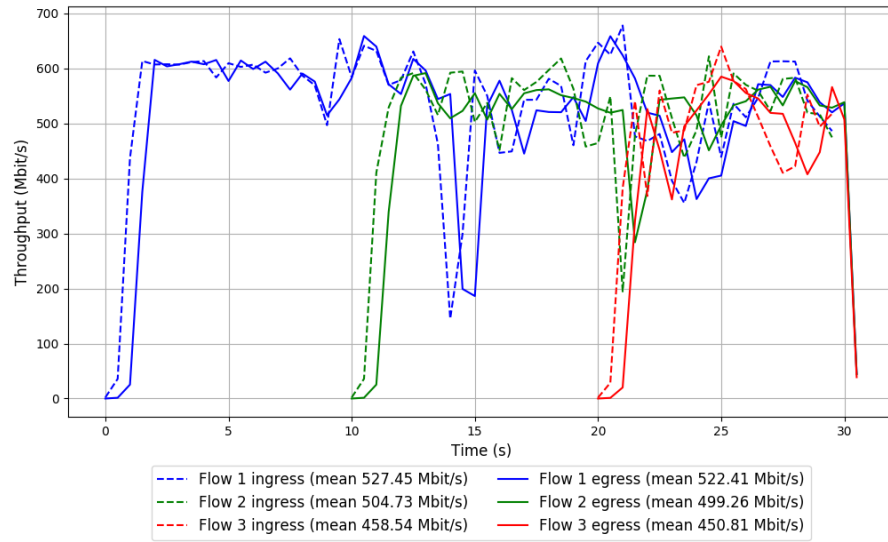


Run 4: Statistics of TCP BBR

Start at: 2018-12-21 00:31:03
End at: 2018-12-21 00:31:33
Local clock offset: -0.078 ms
Remote clock offset: -0.595 ms

Below is generated by plot.py at 2018-12-21 02:07:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 1005.01 Mbit/s
95th percentile per-packet one-way delay: 173.486 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 522.41 Mbit/s
95th percentile per-packet one-way delay: 170.918 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 499.26 Mbit/s
95th percentile per-packet one-way delay: 170.229 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 450.81 Mbit/s
95th percentile per-packet one-way delay: 181.048 ms
Loss rate: 1.71%

Run 4: Report of TCP BBR — Data Link

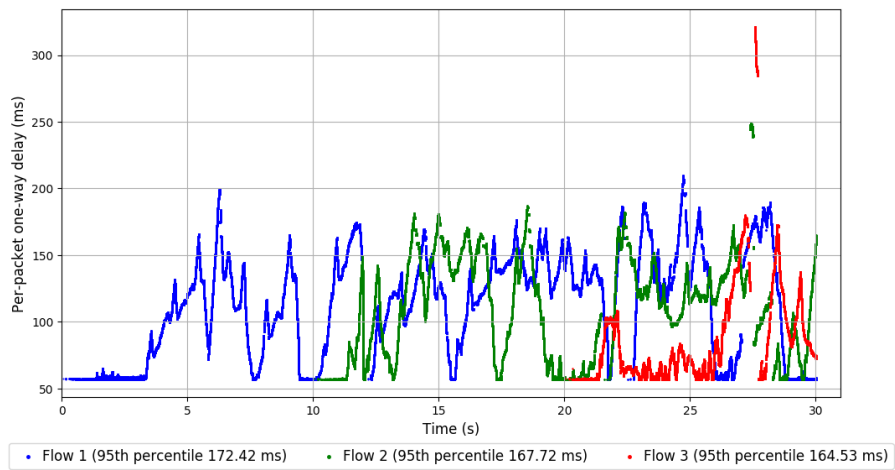
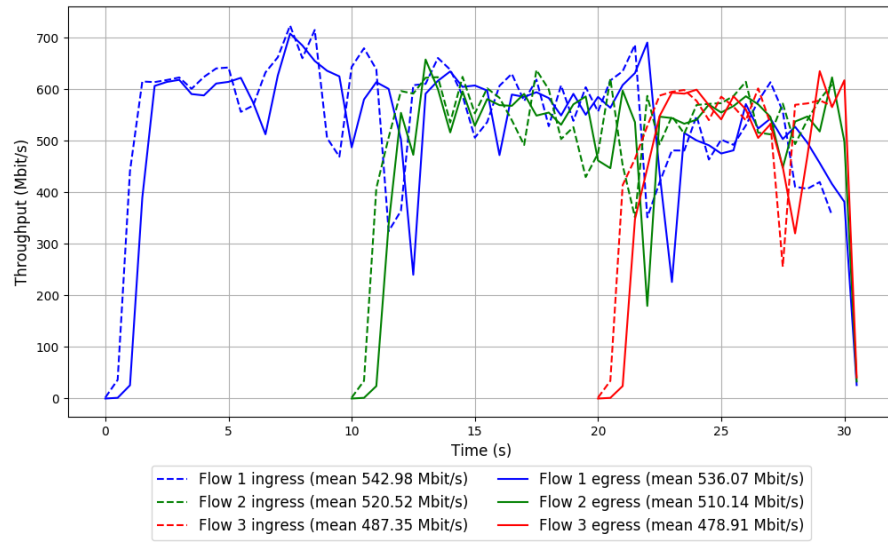


Run 5: Statistics of TCP BBR

Start at: 2018-12-21 01:05:06
End at: 2018-12-21 01:05:36
Local clock offset: -0.107 ms
Remote clock offset: -0.269 ms

Below is generated by plot.py at 2018-12-21 02:08:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 1035.04 Mbit/s
95th percentile per-packet one-way delay: 170.634 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 536.07 Mbit/s
95th percentile per-packet one-way delay: 172.417 ms
Loss rate: 1.27%
-- Flow 2:
Average throughput: 510.14 Mbit/s
95th percentile per-packet one-way delay: 167.725 ms
Loss rate: 1.99%
-- Flow 3:
Average throughput: 478.91 Mbit/s
95th percentile per-packet one-way delay: 164.535 ms
Loss rate: 1.72%

Run 5: Report of TCP BBR — Data Link

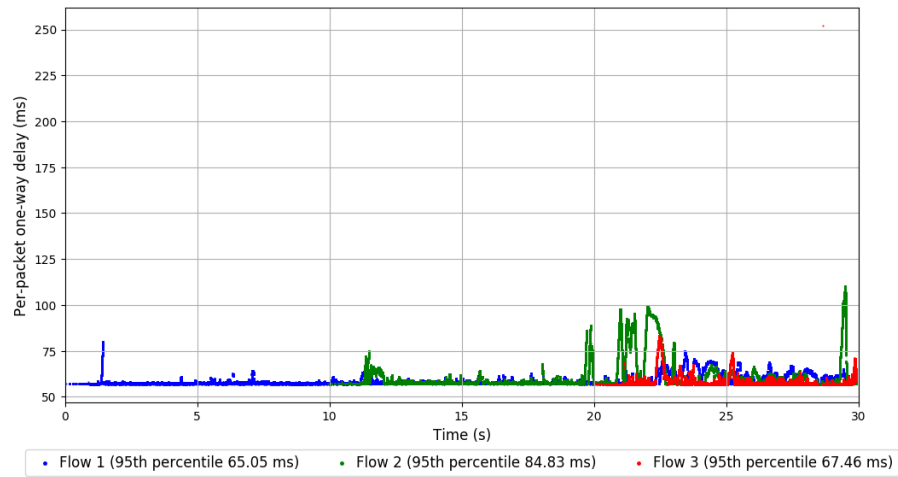
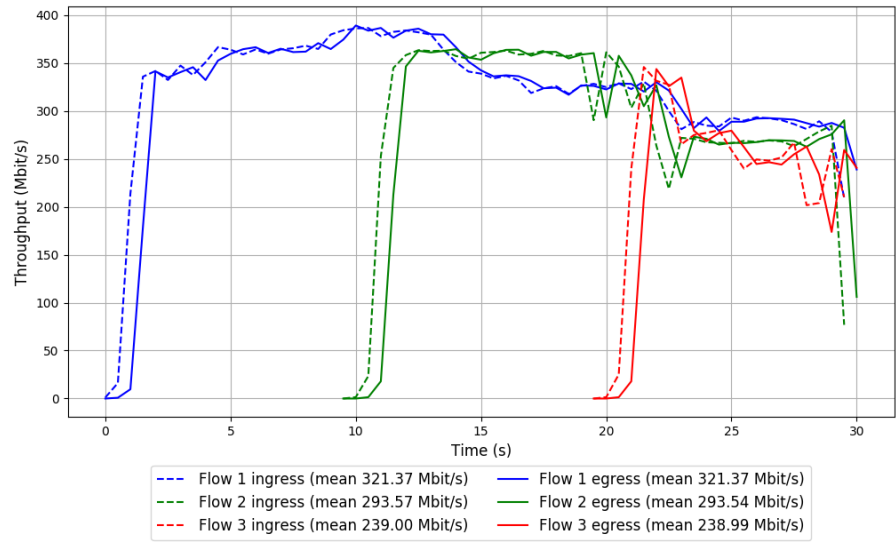


Run 1: Statistics of Copa

Start at: 2018-12-20 22:47:10
End at: 2018-12-20 22:47:40
Local clock offset: -0.048 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2018-12-21 02:09:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 597.28 Mbit/s
95th percentile per-packet one-way delay: 68.057 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 321.37 Mbit/s
95th percentile per-packet one-way delay: 65.045 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 293.54 Mbit/s
95th percentile per-packet one-way delay: 84.830 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 238.99 Mbit/s
95th percentile per-packet one-way delay: 67.457 ms
Loss rate: 0.01%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-12-20 23:21:37

End at: 2018-12-20 23:22:07

Local clock offset: -0.027 ms

Remote clock offset: 0.048 ms

Below is generated by plot.py at 2018-12-21 02:09:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 607.66 Mbit/s

95th percentile per-packet one-way delay: 70.923 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 317.35 Mbit/s

95th percentile per-packet one-way delay: 68.205 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 283.63 Mbit/s

95th percentile per-packet one-way delay: 79.864 ms

Loss rate: 0.00%

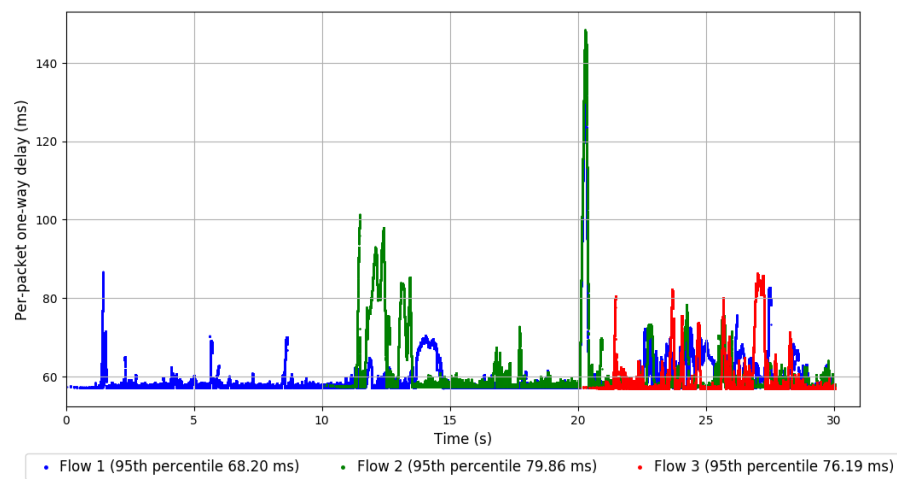
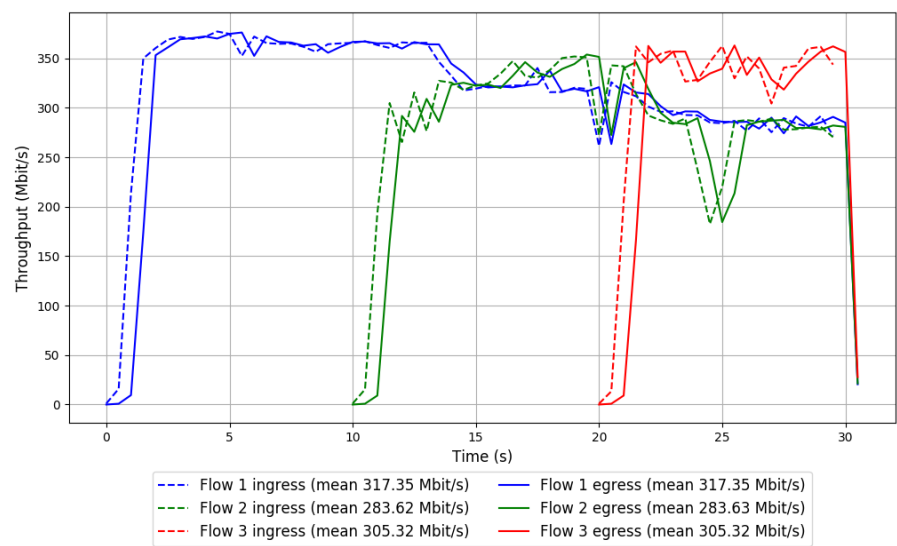
-- Flow 3:

Average throughput: 305.32 Mbit/s

95th percentile per-packet one-way delay: 76.192 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-12-20 23:55:28

End at: 2018-12-20 23:55:58

Local clock offset: 0.025 ms

Remote clock offset: 0.14 ms

Below is generated by plot.py at 2018-12-21 02:09:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 575.62 Mbit/s

95th percentile per-packet one-way delay: 82.148 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 321.78 Mbit/s

95th percentile per-packet one-way delay: 73.852 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 279.27 Mbit/s

95th percentile per-packet one-way delay: 83.830 ms

Loss rate: 0.01%

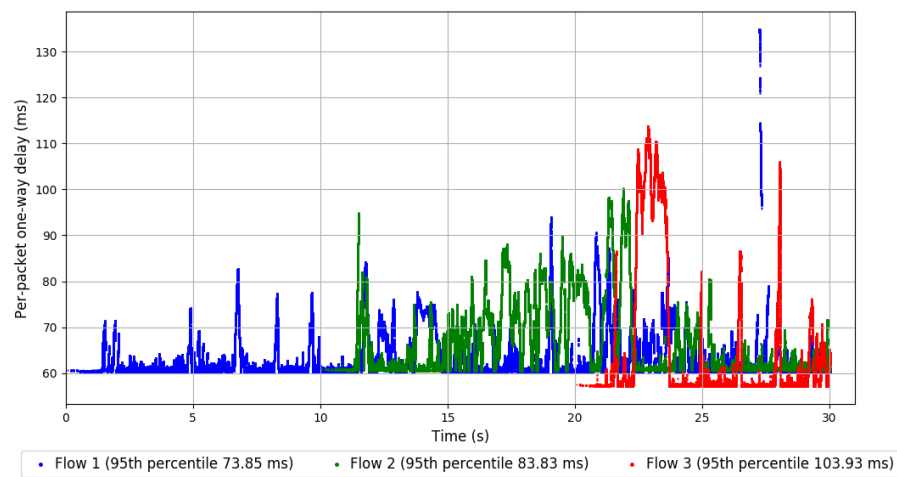
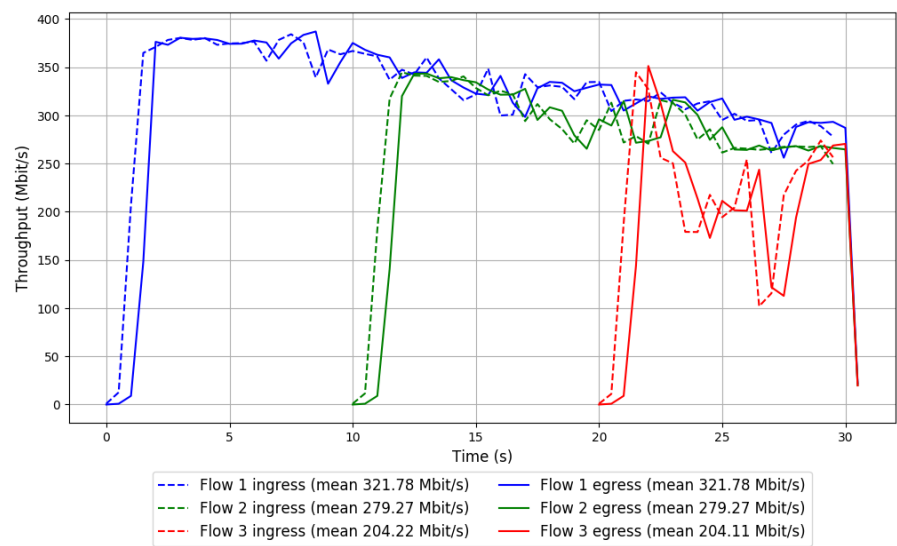
-- Flow 3:

Average throughput: 204.11 Mbit/s

95th percentile per-packet one-way delay: 103.926 ms

Loss rate: 0.04%

Run 3: Report of Copa — Data Link

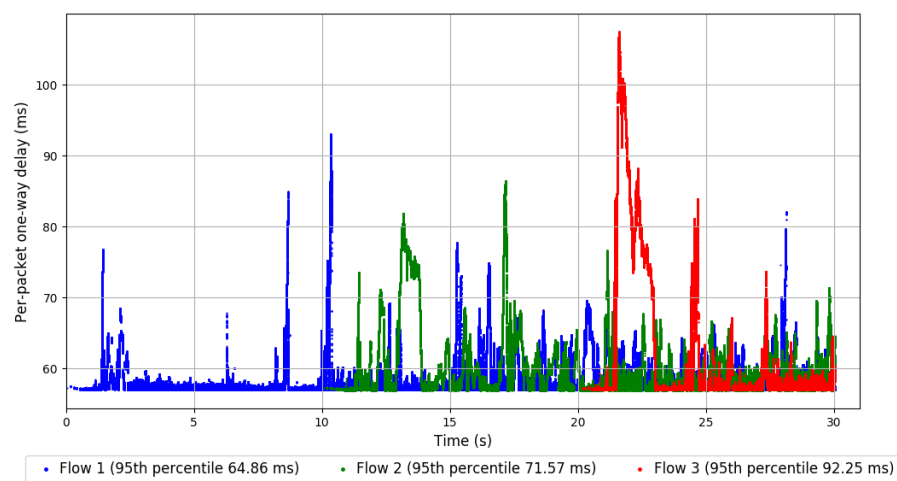
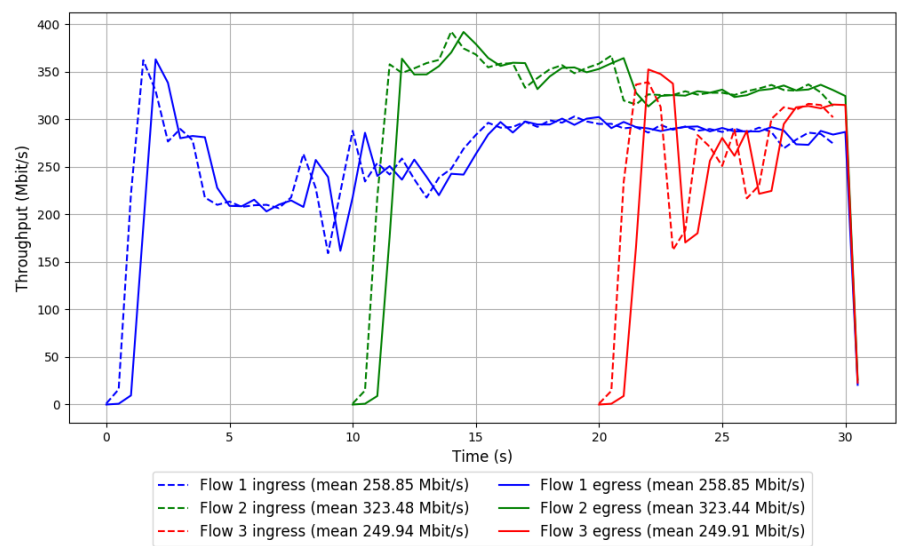


Run 4: Statistics of Copa

Start at: 2018-12-21 00:28:55
End at: 2018-12-21 00:29:25
Local clock offset: -0.057 ms
Remote clock offset: -0.173 ms

Below is generated by plot.py at 2018-12-21 02:25:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 557.38 Mbit/s
95th percentile per-packet one-way delay: 73.949 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 258.85 Mbit/s
95th percentile per-packet one-way delay: 64.865 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 323.44 Mbit/s
95th percentile per-packet one-way delay: 71.572 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 249.91 Mbit/s
95th percentile per-packet one-way delay: 92.252 ms
Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-12-21 01:03:01

End at: 2018-12-21 01:03:31

Local clock offset: 0.054 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2018-12-21 02:25:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 547.96 Mbit/s

95th percentile per-packet one-way delay: 66.491 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 306.54 Mbit/s

95th percentile per-packet one-way delay: 65.869 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 257.24 Mbit/s

95th percentile per-packet one-way delay: 64.632 ms

Loss rate: 0.00%

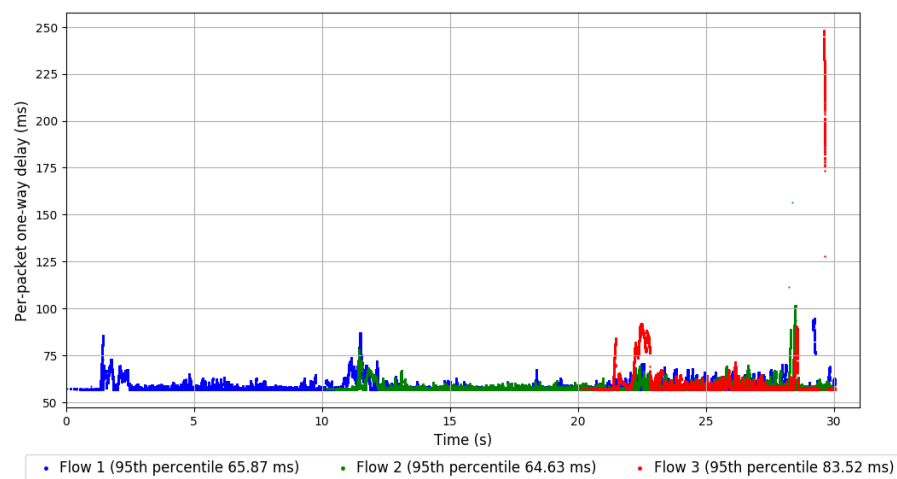
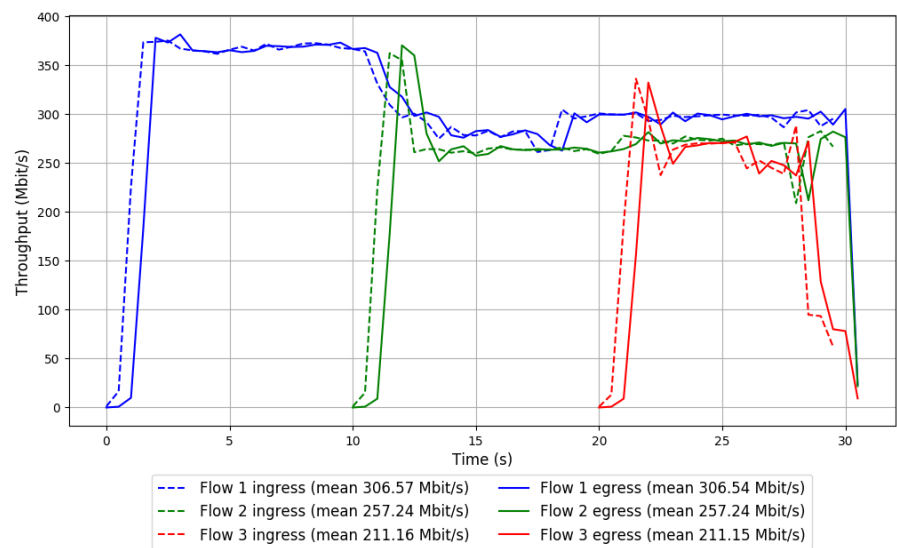
-- Flow 3:

Average throughput: 211.15 Mbit/s

95th percentile per-packet one-way delay: 83.518 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-12-20 23:06:06

End at: 2018-12-20 23:06:36

Local clock offset: -0.303 ms

Remote clock offset: 0.121 ms

Below is generated by plot.py at 2018-12-21 02:25:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 985.13 Mbit/s

95th percentile per-packet one-way delay: 88.431 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 509.55 Mbit/s

95th percentile per-packet one-way delay: 90.777 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 474.26 Mbit/s

95th percentile per-packet one-way delay: 76.600 ms

Loss rate: 0.04%

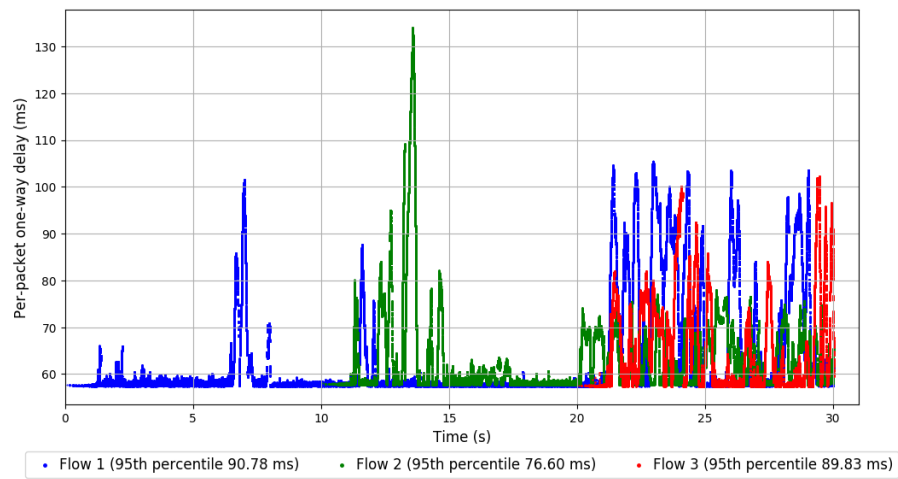
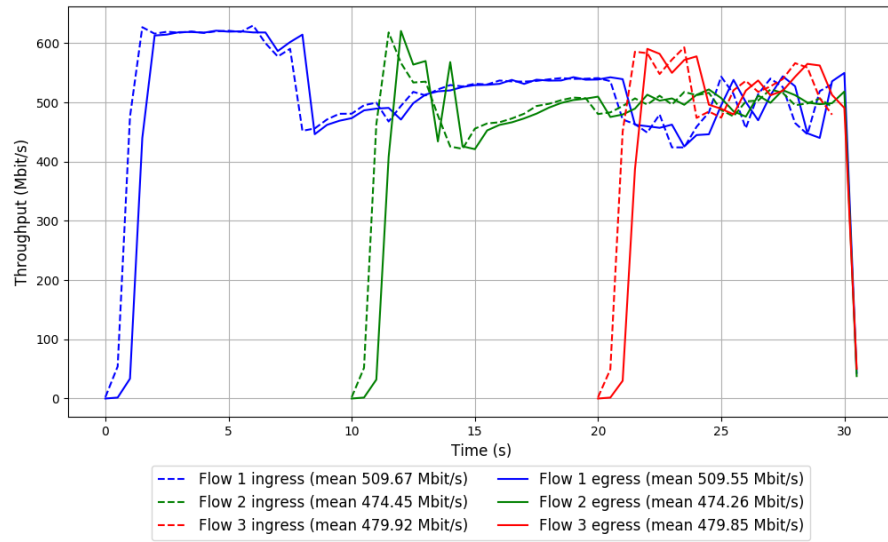
-- Flow 3:

Average throughput: 479.85 Mbit/s

95th percentile per-packet one-way delay: 89.828 ms

Loss rate: 0.01%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-12-20 23:40:44

End at: 2018-12-20 23:41:14

Local clock offset: -0.28 ms

Remote clock offset: 0.259 ms

Below is generated by plot.py at 2018-12-21 02:25:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 735.64 Mbit/s

95th percentile per-packet one-way delay: 74.666 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 425.28 Mbit/s

95th percentile per-packet one-way delay: 77.647 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 317.35 Mbit/s

95th percentile per-packet one-way delay: 59.755 ms

Loss rate: 0.00%

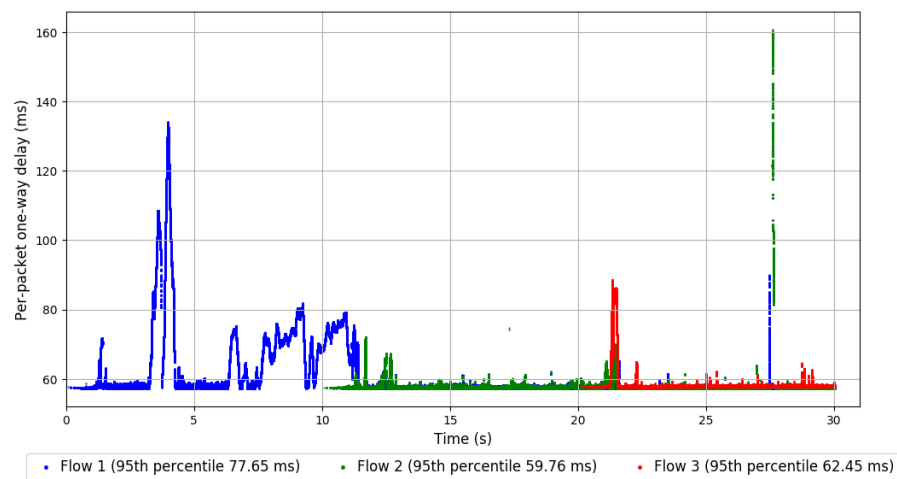
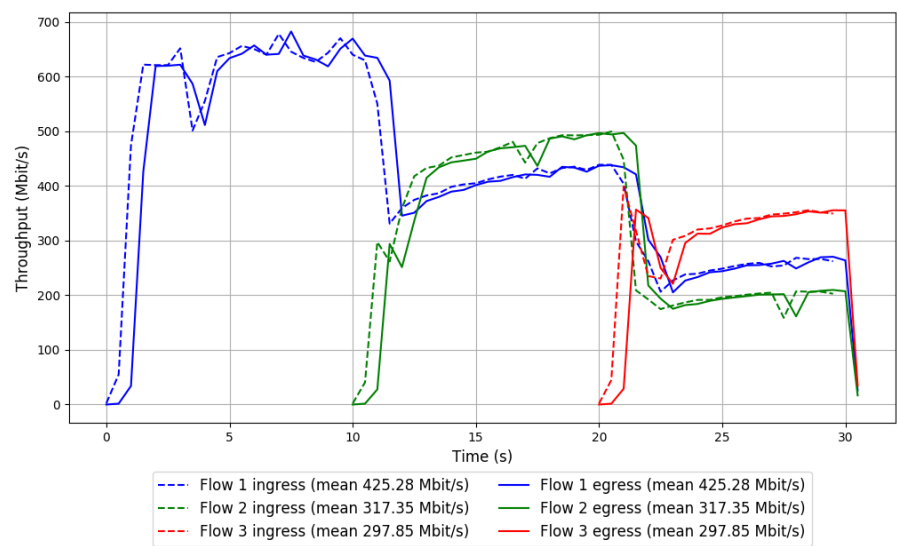
-- Flow 3:

Average throughput: 297.85 Mbit/s

95th percentile per-packet one-way delay: 62.447 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link

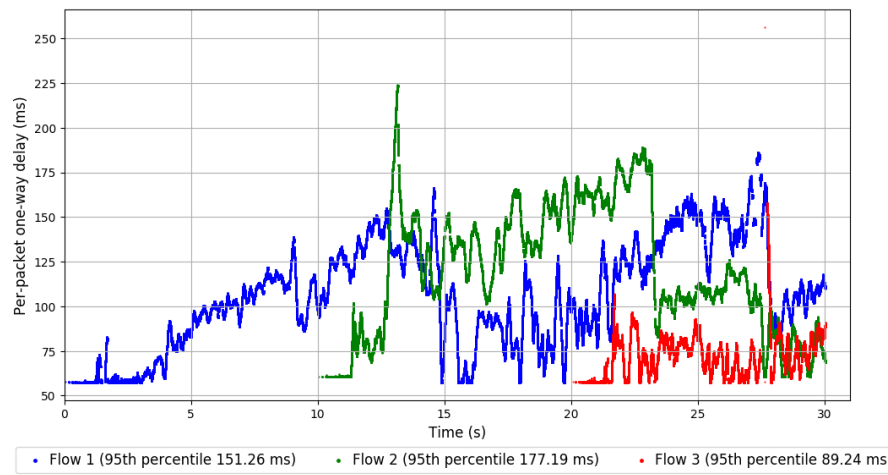
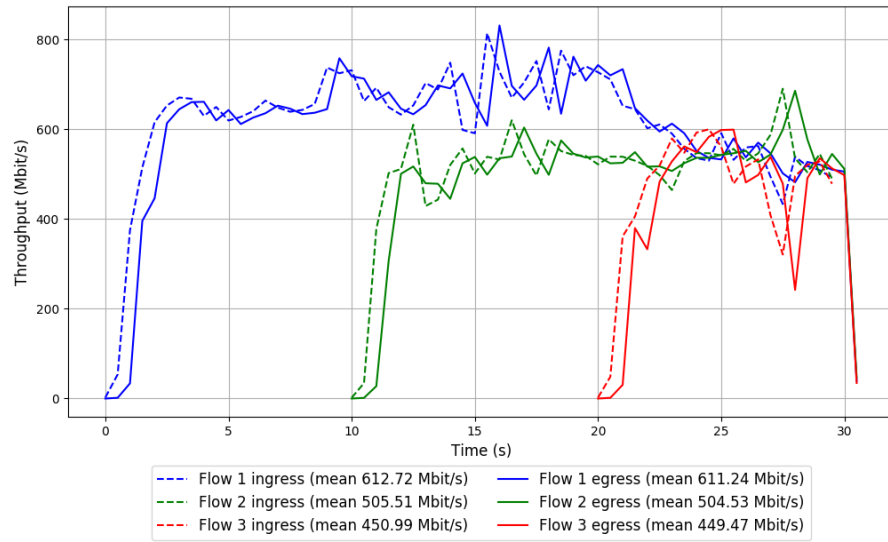


Run 3: Statistics of TCP Cubic

Start at: 2018-12-21 00:13:55
End at: 2018-12-21 00:14:25
Local clock offset: -0.383 ms
Remote clock offset: -0.221 ms

Below is generated by plot.py at 2018-12-21 02:27:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 1096.89 Mbit/s
95th percentile per-packet one-way delay: 162.913 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 611.24 Mbit/s
95th percentile per-packet one-way delay: 151.256 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 504.53 Mbit/s
95th percentile per-packet one-way delay: 177.190 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 449.47 Mbit/s
95th percentile per-packet one-way delay: 89.242 ms
Loss rate: 0.34%

Run 3: Report of TCP Cubic — Data Link

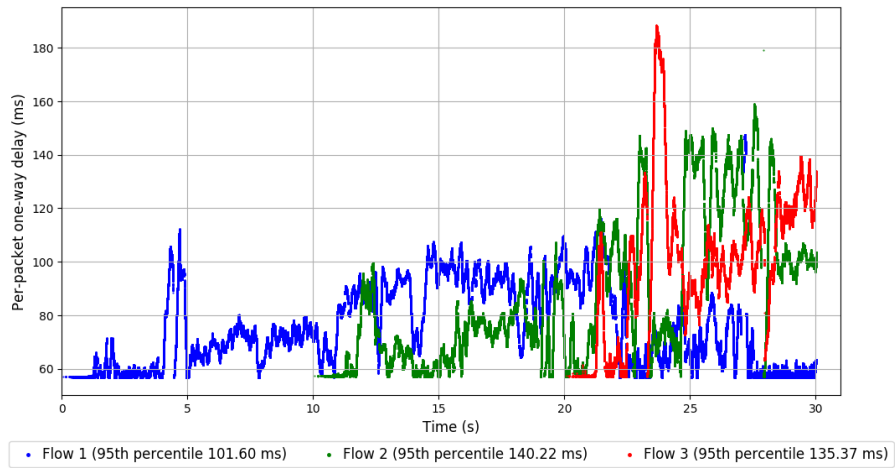
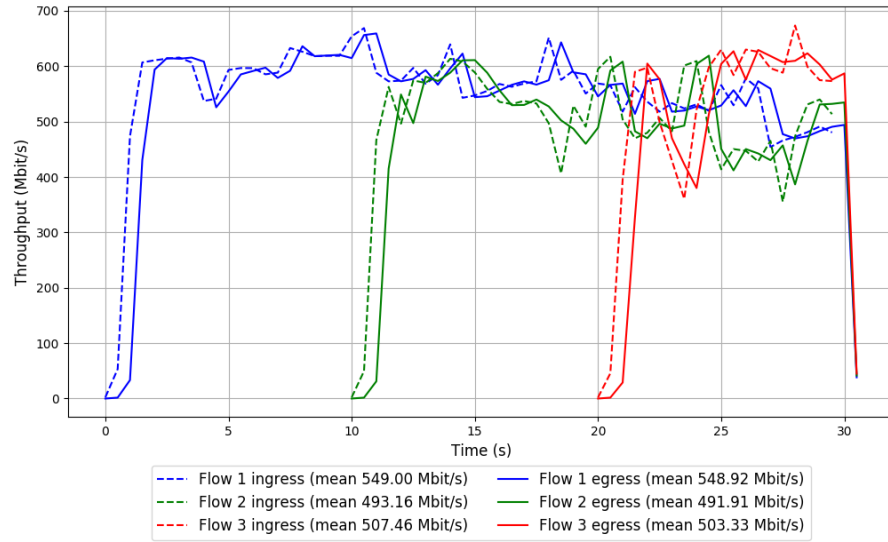


Run 4: Statistics of TCP Cubic

Start at: 2018-12-21 00:47:50
End at: 2018-12-21 00:48:20
Local clock offset: -0.096 ms
Remote clock offset: -0.301 ms

Below is generated by plot.py at 2018-12-21 02:27:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 1043.92 Mbit/s
95th percentile per-packet one-way delay: 128.774 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 548.92 Mbit/s
95th percentile per-packet one-way delay: 101.603 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 491.91 Mbit/s
95th percentile per-packet one-way delay: 140.217 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 503.33 Mbit/s
95th percentile per-packet one-way delay: 135.370 ms
Loss rate: 0.81%

Run 4: Report of TCP Cubic — Data Link

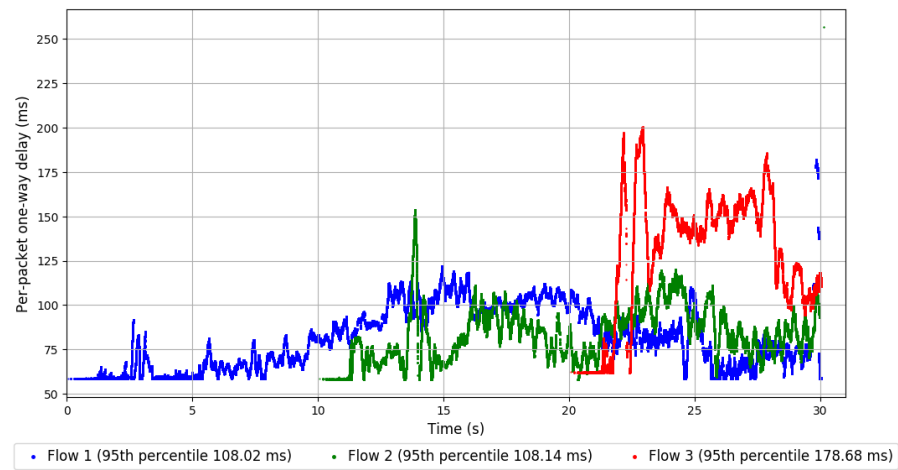
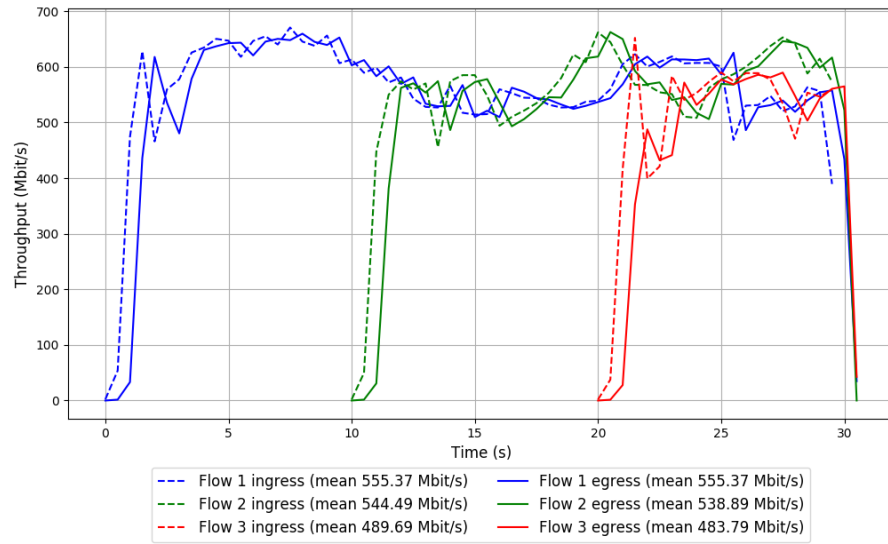


Run 5: Statistics of TCP Cubic

Start at: 2018-12-21 01:21:09
End at: 2018-12-21 01:21:39
Local clock offset: -1.714 ms
Remote clock offset: -0.346 ms

Below is generated by plot.py at 2018-12-21 02:28:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 1073.84 Mbit/s
95th percentile per-packet one-way delay: 152.143 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 555.37 Mbit/s
95th percentile per-packet one-way delay: 108.018 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 538.89 Mbit/s
95th percentile per-packet one-way delay: 108.145 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 483.79 Mbit/s
95th percentile per-packet one-way delay: 178.675 ms
Loss rate: 1.24%

Run 5: Report of TCP Cubic — Data Link

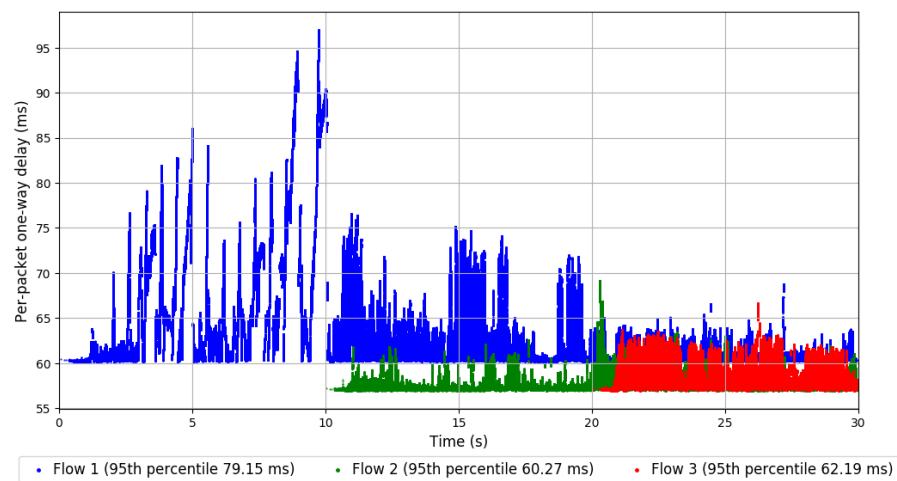
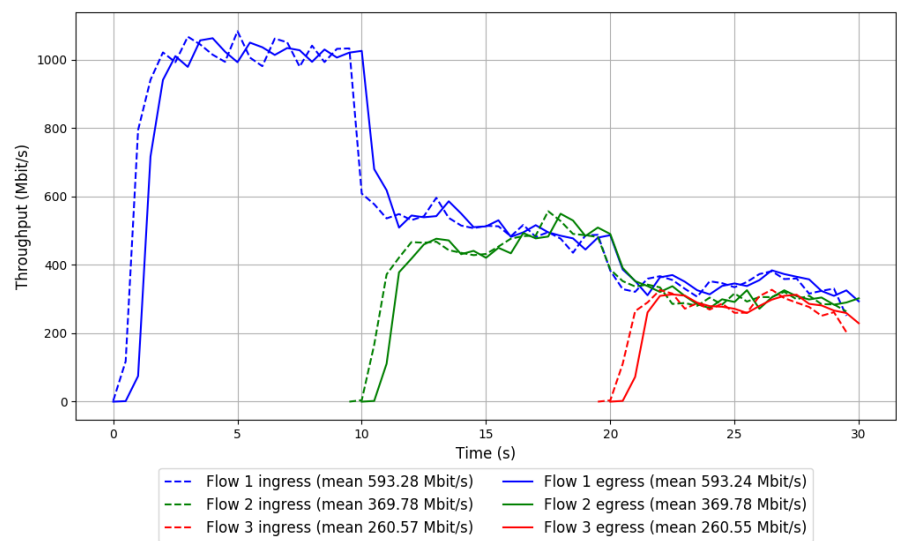


Run 1: Statistics of FillP

Start at: 2018-12-20 22:59:29
End at: 2018-12-20 22:59:59
Local clock offset: -0.02 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-12-21 02:29:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 925.98 Mbit/s
95th percentile per-packet one-way delay: 75.625 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 593.24 Mbit/s
95th percentile per-packet one-way delay: 79.148 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 369.78 Mbit/s
95th percentile per-packet one-way delay: 60.266 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 260.55 Mbit/s
95th percentile per-packet one-way delay: 62.187 ms
Loss rate: 0.00%

Run 1: Report of FillP — Data Link

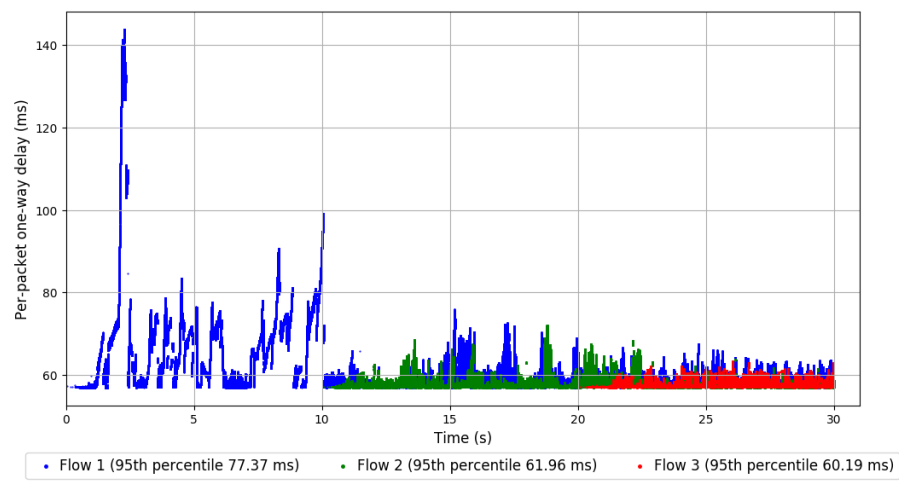
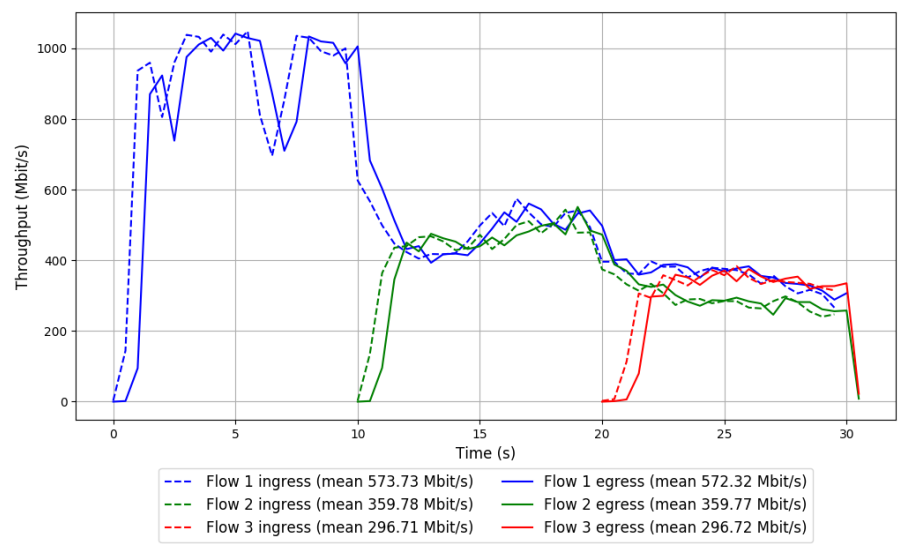


Run 2: Statistics of FillP

Start at: 2018-12-20 23:34:27
End at: 2018-12-20 23:34:57
Local clock offset: -0.137 ms
Remote clock offset: -0.066 ms

Below is generated by plot.py at 2018-12-21 02:38:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 909.70 Mbit/s
95th percentile per-packet one-way delay: 74.216 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 572.32 Mbit/s
95th percentile per-packet one-way delay: 77.367 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 359.77 Mbit/s
95th percentile per-packet one-way delay: 61.964 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 296.72 Mbit/s
95th percentile per-packet one-way delay: 60.186 ms
Loss rate: 0.00%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-12-21 00:07:48

End at: 2018-12-21 00:08:18

Local clock offset: -0.142 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-12-21 02:45:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 915.96 Mbit/s

95th percentile per-packet one-way delay: 76.599 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 584.26 Mbit/s

95th percentile per-packet one-way delay: 80.725 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 369.44 Mbit/s

95th percentile per-packet one-way delay: 61.665 ms

Loss rate: 0.00%

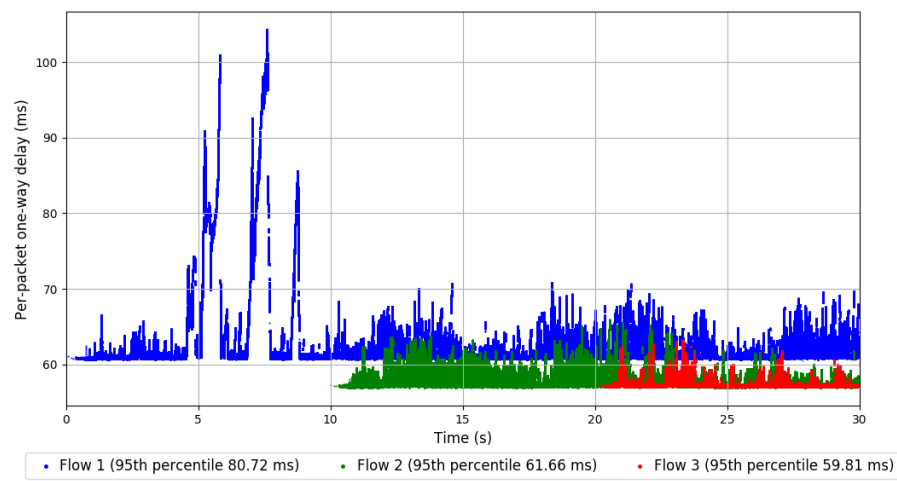
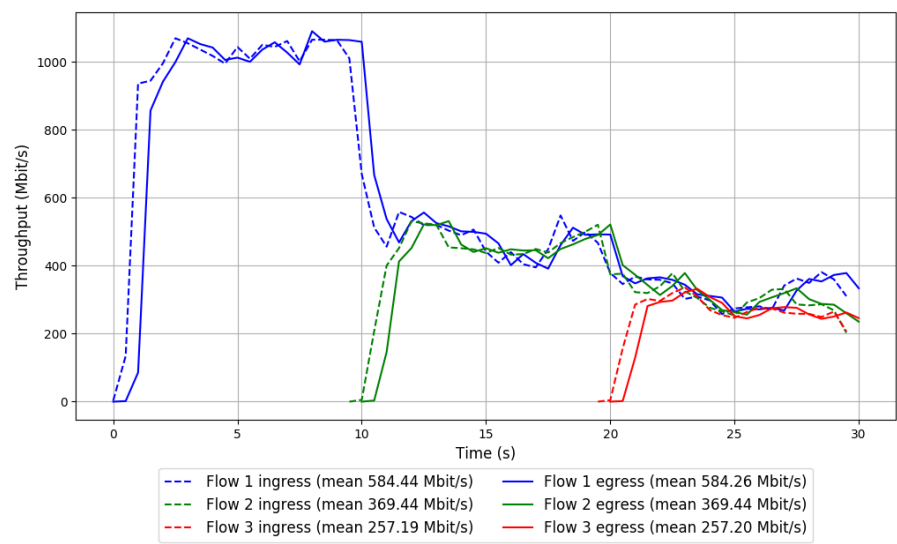
-- Flow 3:

Average throughput: 257.20 Mbit/s

95th percentile per-packet one-way delay: 59.807 ms

Loss rate: 0.00%

Run 3: Report of FillP — Data Link

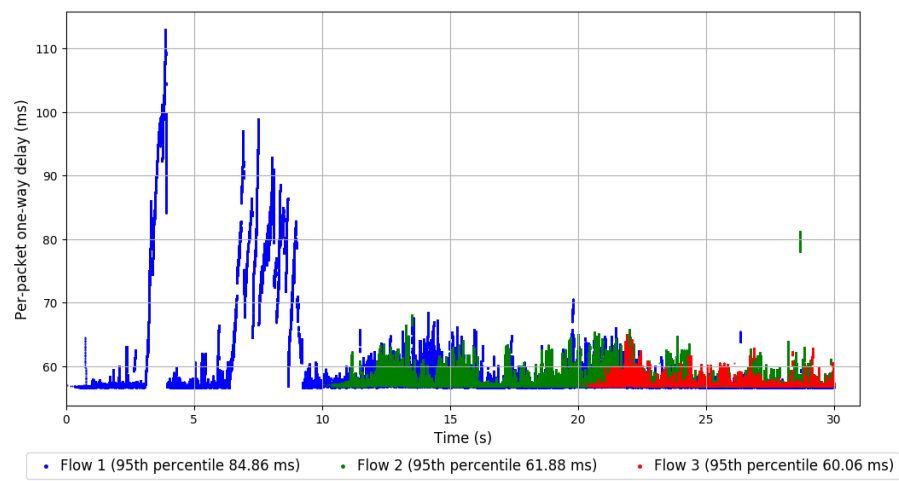
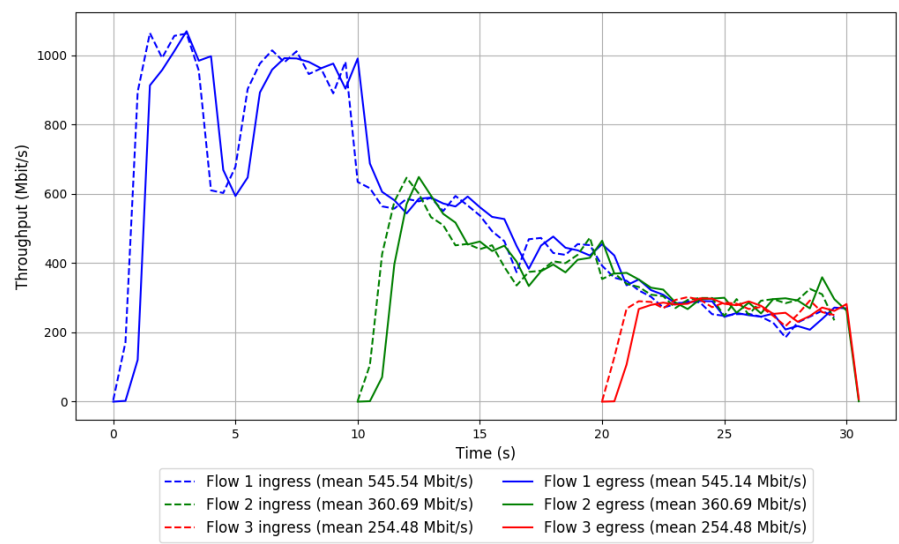


Run 4: Statistics of FillP

Start at: 2018-12-21 00:41:28
End at: 2018-12-21 00:41:58
Local clock offset: -0.082 ms
Remote clock offset: -0.191 ms

Below is generated by plot.py at 2018-12-21 02:45:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 869.19 Mbit/s
95th percentile per-packet one-way delay: 81.112 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 545.14 Mbit/s
95th percentile per-packet one-way delay: 84.859 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 360.69 Mbit/s
95th percentile per-packet one-way delay: 61.877 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 254.48 Mbit/s
95th percentile per-packet one-way delay: 60.058 ms
Loss rate: 0.00%

Run 4: Report of FillP — Data Link

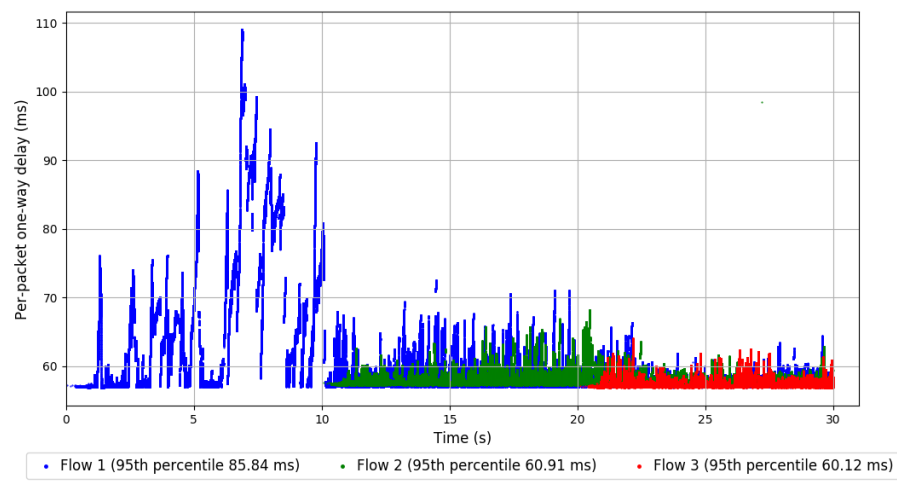
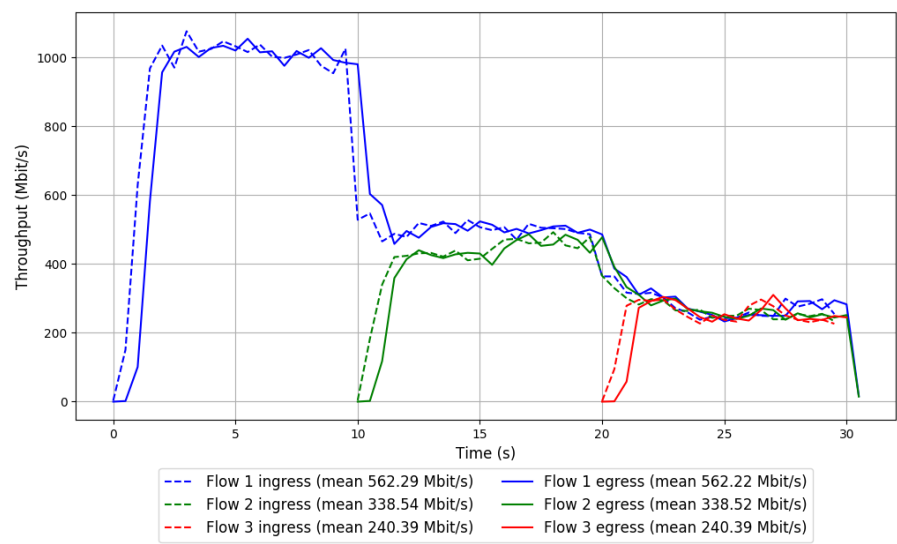


Run 5: Statistics of FillP

Start at: 2018-12-21 01:15:04
End at: 2018-12-21 01:15:34
Local clock offset: -0.098 ms
Remote clock offset: -0.165 ms

Below is generated by plot.py at 2018-12-21 02:45:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 866.83 Mbit/s
95th percentile per-packet one-way delay: 82.133 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 562.22 Mbit/s
95th percentile per-packet one-way delay: 85.837 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 338.52 Mbit/s
95th percentile per-packet one-way delay: 60.914 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 240.39 Mbit/s
95th percentile per-packet one-way delay: 60.122 ms
Loss rate: 0.00%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-12-20 22:53:02

End at: 2018-12-20 22:53:32

Local clock offset: -0.029 ms

Remote clock offset: -0.1 ms

Below is generated by plot.py at 2018-12-21 02:45:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 819.14 Mbit/s

95th percentile per-packet one-way delay: 76.473 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 528.95 Mbit/s

95th percentile per-packet one-way delay: 81.488 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 323.57 Mbit/s

95th percentile per-packet one-way delay: 61.954 ms

Loss rate: 0.02%

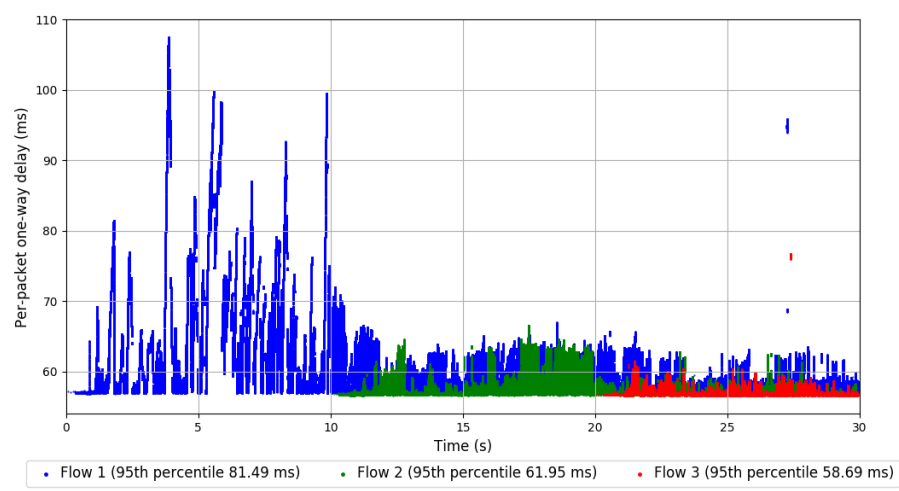
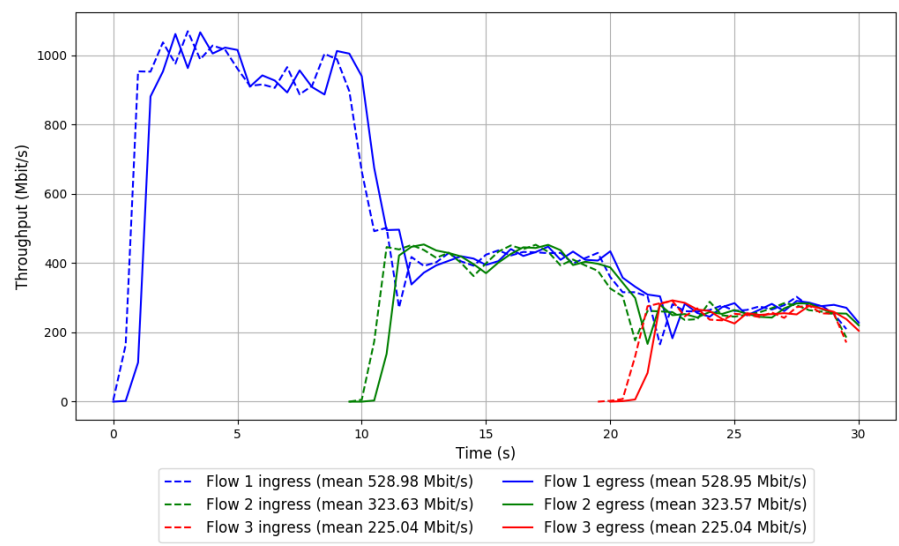
-- Flow 3:

Average throughput: 225.04 Mbit/s

95th percentile per-packet one-way delay: 58.692 ms

Loss rate: 0.00%

Run 1: Report of FillP-Sheep — Data Link

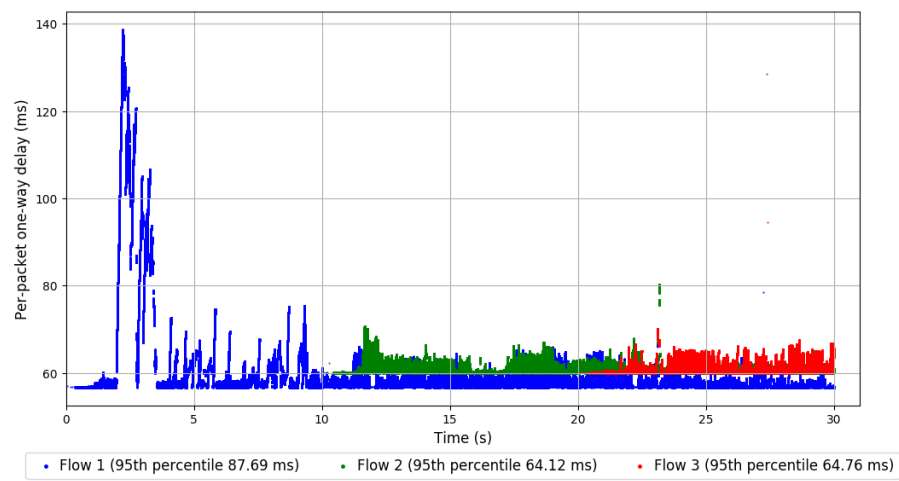
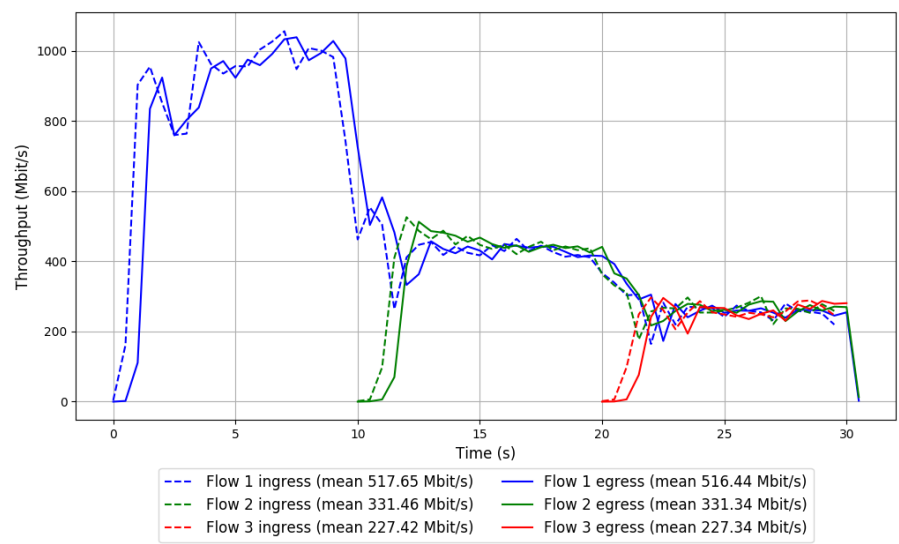


Run 2: Statistics of FillP-Sheep

Start at: 2018-12-20 23:28:02
End at: 2018-12-20 23:28:32
Local clock offset: 0.089 ms
Remote clock offset: -0.194 ms

Below is generated by plot.py at 2018-12-21 02:45:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 811.87 Mbit/s
95th percentile per-packet one-way delay: 70.971 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 516.44 Mbit/s
95th percentile per-packet one-way delay: 87.693 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 331.34 Mbit/s
95th percentile per-packet one-way delay: 64.124 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 227.34 Mbit/s
95th percentile per-packet one-way delay: 64.761 ms
Loss rate: 0.00%

Run 2: Report of FillP-Sheep — Data Link

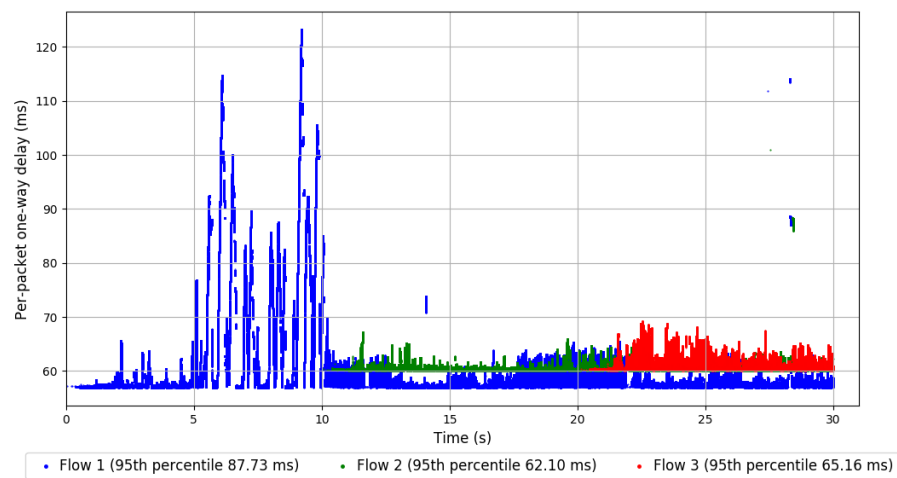
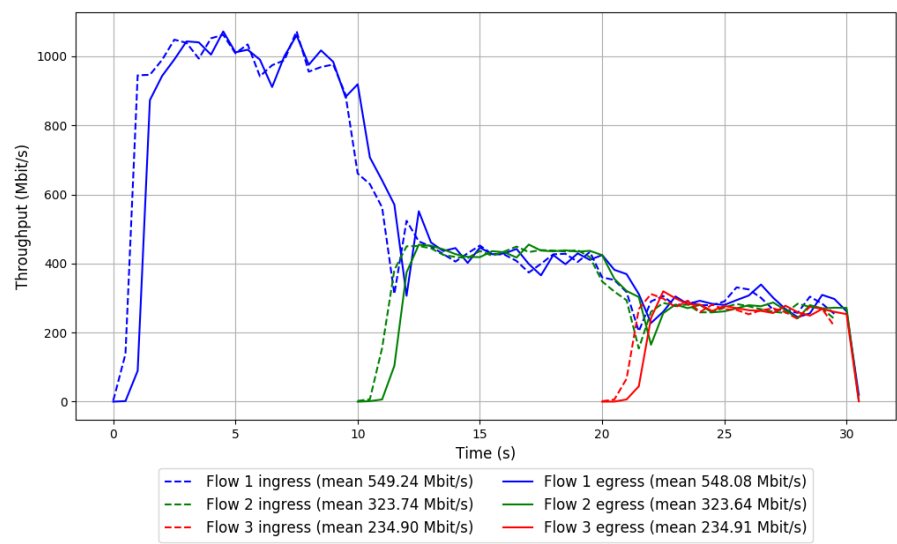


Run 3: Statistics of FillP-Sheep

Start at: 2018-12-21 00:01:25
End at: 2018-12-21 00:01:55
Local clock offset: -0.102 ms
Remote clock offset: -0.224 ms

Below is generated by plot.py at 2018-12-21 02:47:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 840.90 Mbit/s
95th percentile per-packet one-way delay: 82.034 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 548.08 Mbit/s
95th percentile per-packet one-way delay: 87.735 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 323.64 Mbit/s
95th percentile per-packet one-way delay: 62.102 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 234.91 Mbit/s
95th percentile per-packet one-way delay: 65.157 ms
Loss rate: 0.00%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-12-21 00:35:00

End at: 2018-12-21 00:35:30

Local clock offset: -0.288 ms

Remote clock offset: 0.159 ms

Below is generated by plot.py at 2018-12-21 02:47:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 835.61 Mbit/s

95th percentile per-packet one-way delay: 70.313 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 543.50 Mbit/s

95th percentile per-packet one-way delay: 71.808 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 319.37 Mbit/s

95th percentile per-packet one-way delay: 61.221 ms

Loss rate: 0.00%

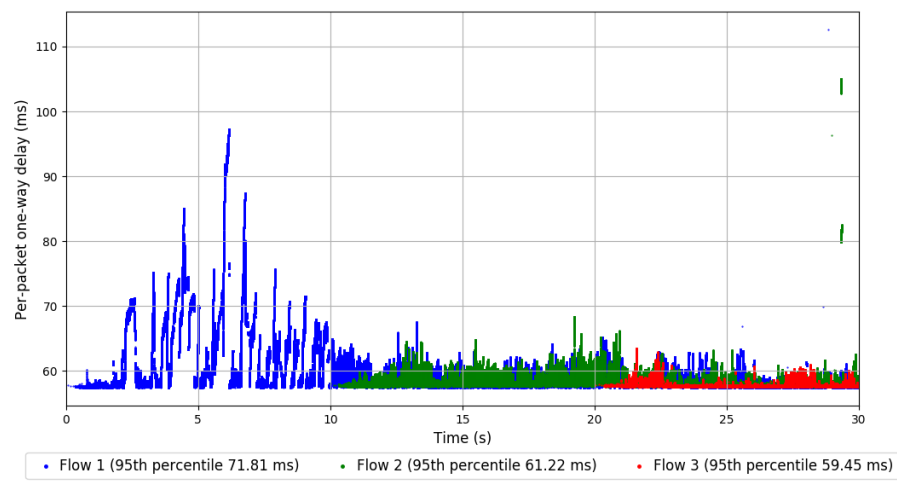
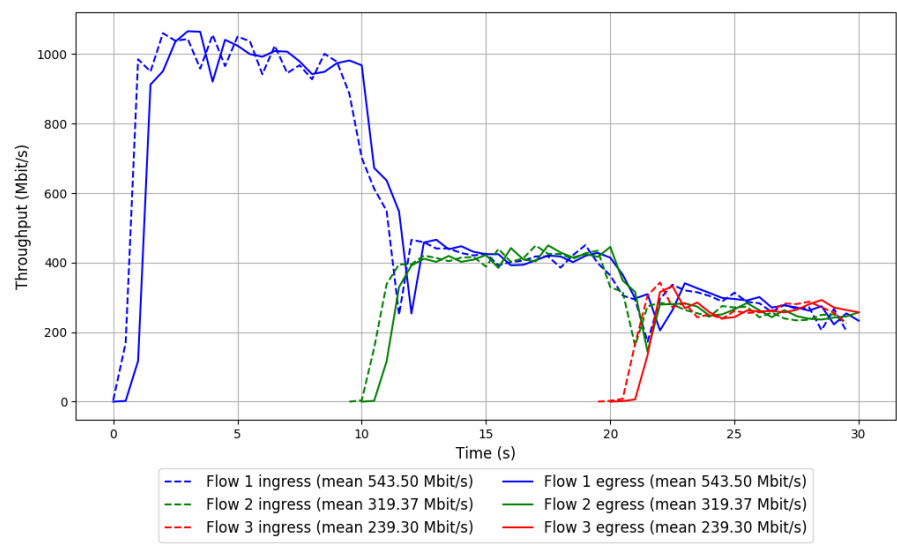
-- Flow 3:

Average throughput: 239.30 Mbit/s

95th percentile per-packet one-way delay: 59.447 ms

Loss rate: 0.00%

Run 4: Report of FillP-Sheep — Data Link

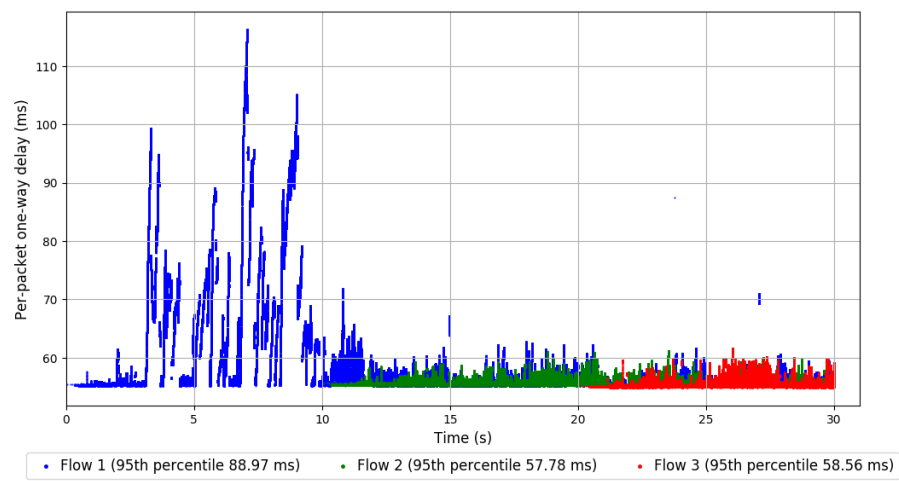
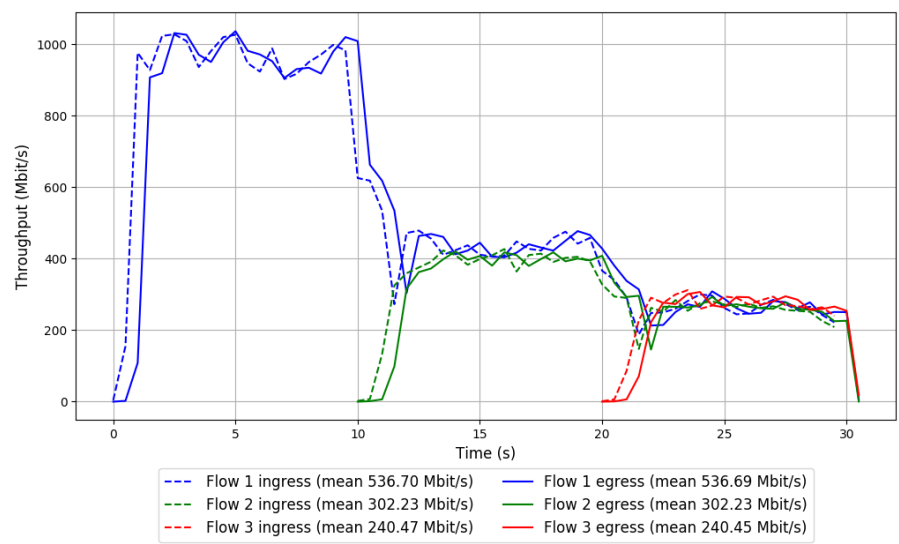


Run 5: Statistics of FillP-Sheep

Start at: 2018-12-21 01:08:49
End at: 2018-12-21 01:09:19
Local clock offset: 1.572 ms
Remote clock offset: -0.255 ms

Below is generated by plot.py at 2018-12-21 02:58:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 817.08 Mbit/s
95th percentile per-packet one-way delay: 81.295 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 536.69 Mbit/s
95th percentile per-packet one-way delay: 88.970 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 302.23 Mbit/s
95th percentile per-packet one-way delay: 57.776 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 240.45 Mbit/s
95th percentile per-packet one-way delay: 58.561 ms
Loss rate: 0.00%

Run 5: Report of FillP-Sheep — Data Link

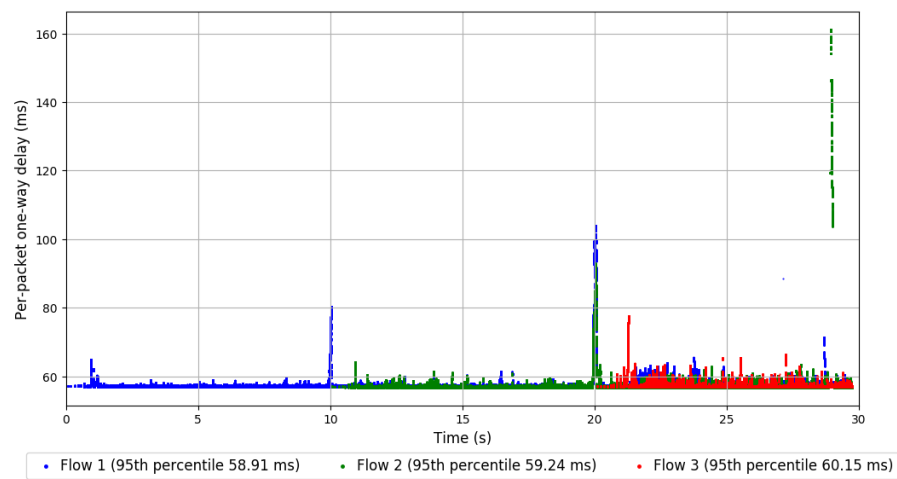
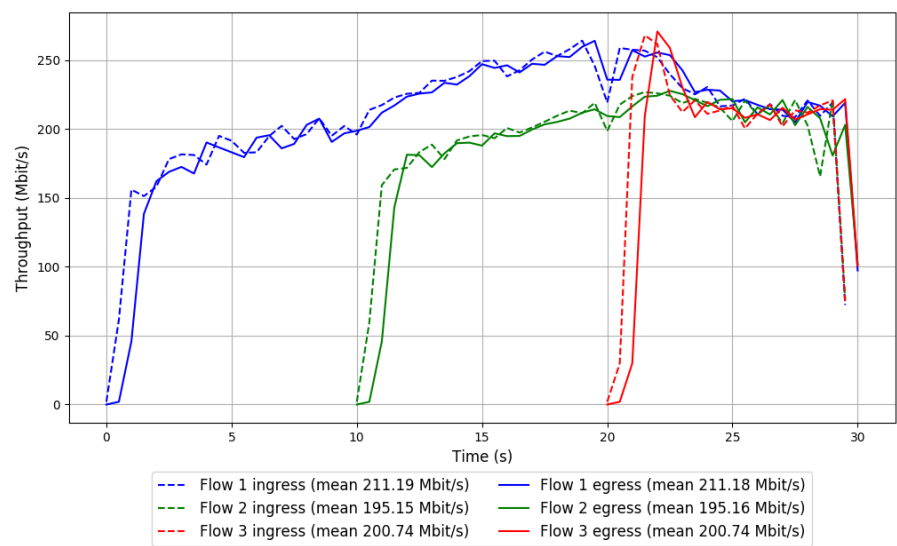


```
Run 1: Statistics of Indigo

Start at: 2018-12-20 23:13:43
End at: 2018-12-20 23:14:13
Local clock offset: -0.501 ms
Remote clock offset: -0.518 ms

# Below is generated by plot.py at 2018-12-21 02:58:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 405.73 Mbit/s
95th percentile per-packet one-way delay: 59.316 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 211.18 Mbit/s
95th percentile per-packet one-way delay: 58.907 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 195.16 Mbit/s
95th percentile per-packet one-way delay: 59.244 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 200.74 Mbit/s
95th percentile per-packet one-way delay: 60.154 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-12-20 23:47:54

End at: 2018-12-20 23:48:24

Local clock offset: -1.886 ms

Remote clock offset: 0.225 ms

Below is generated by plot.py at 2018-12-21 02:58:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 407.81 Mbit/s

95th percentile per-packet one-way delay: 61.582 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 212.03 Mbit/s

95th percentile per-packet one-way delay: 61.635 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 207.47 Mbit/s

95th percentile per-packet one-way delay: 61.588 ms

Loss rate: 0.00%

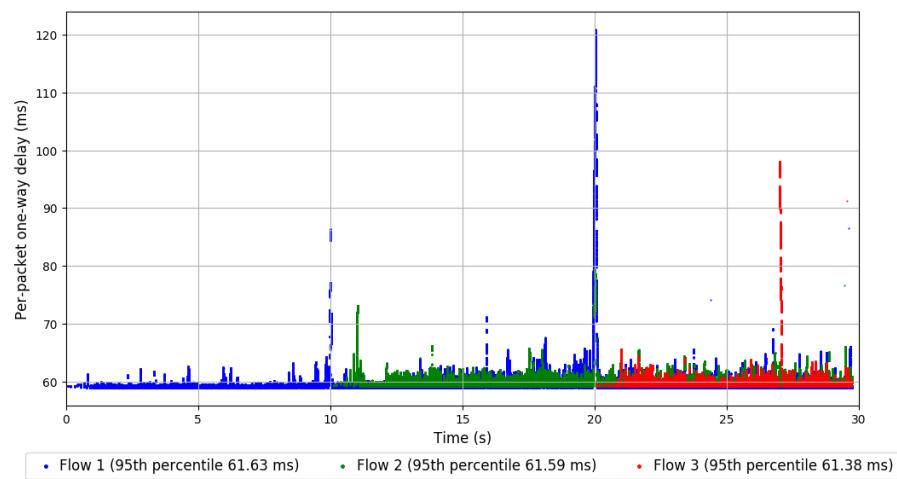
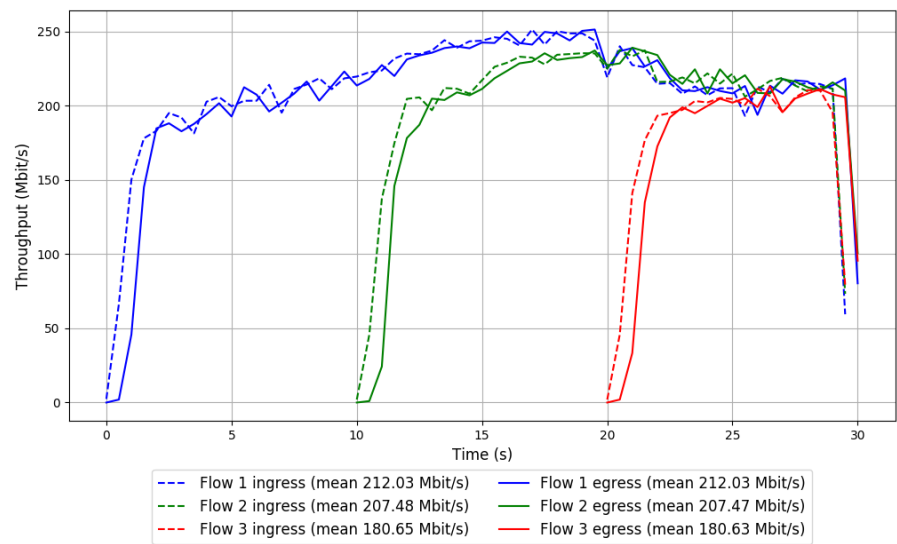
-- Flow 3:

Average throughput: 180.63 Mbit/s

95th percentile per-packet one-way delay: 61.385 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

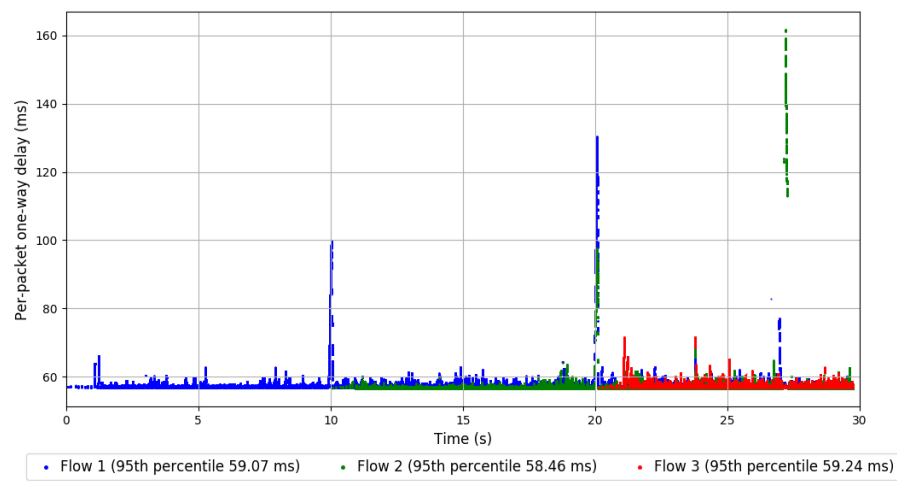
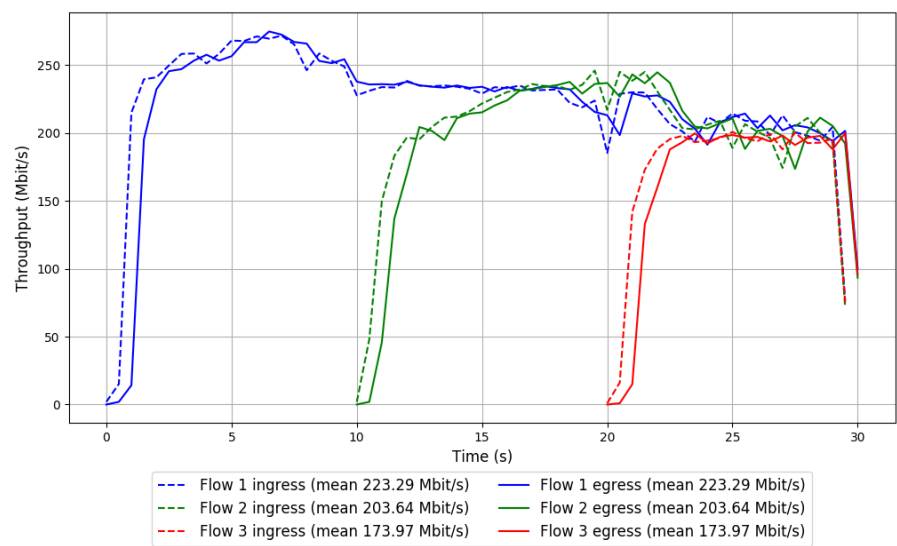


Run 3: Statistics of Indigo

Start at: 2018-12-21 00:21:23
End at: 2018-12-21 00:21:53
Local clock offset: 0.068 ms
Remote clock offset: -0.152 ms

```
# Below is generated by plot.py at 2018-12-21 02:59:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 414.22 Mbit/s
95th percentile per-packet one-way delay: 58.954 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 223.29 Mbit/s
95th percentile per-packet one-way delay: 59.070 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 203.64 Mbit/s
95th percentile per-packet one-way delay: 58.463 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 173.97 Mbit/s
95th percentile per-packet one-way delay: 59.239 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-12-21 00:55:24

End at: 2018-12-21 00:55:54

Local clock offset: -0.163 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-12-21 02:59:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 405.86 Mbit/s

95th percentile per-packet one-way delay: 61.037 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 216.38 Mbit/s

95th percentile per-packet one-way delay: 58.707 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 202.05 Mbit/s

95th percentile per-packet one-way delay: 58.912 ms

Loss rate: 0.00%

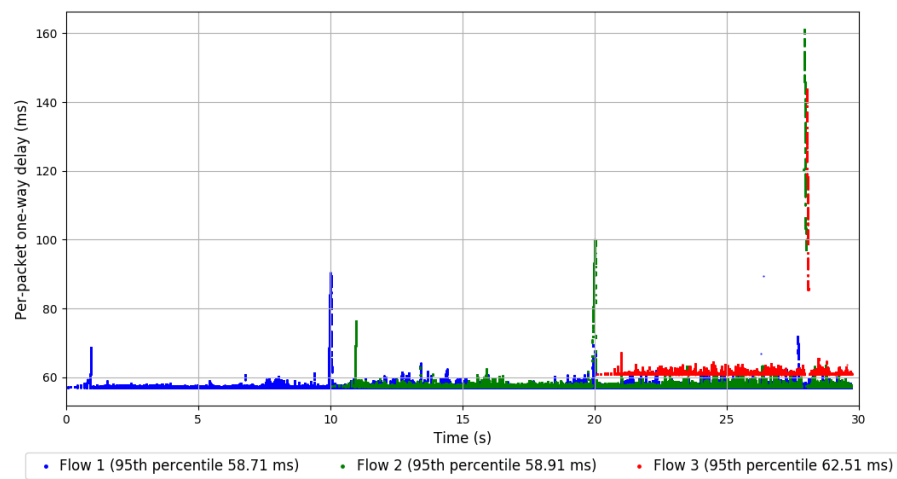
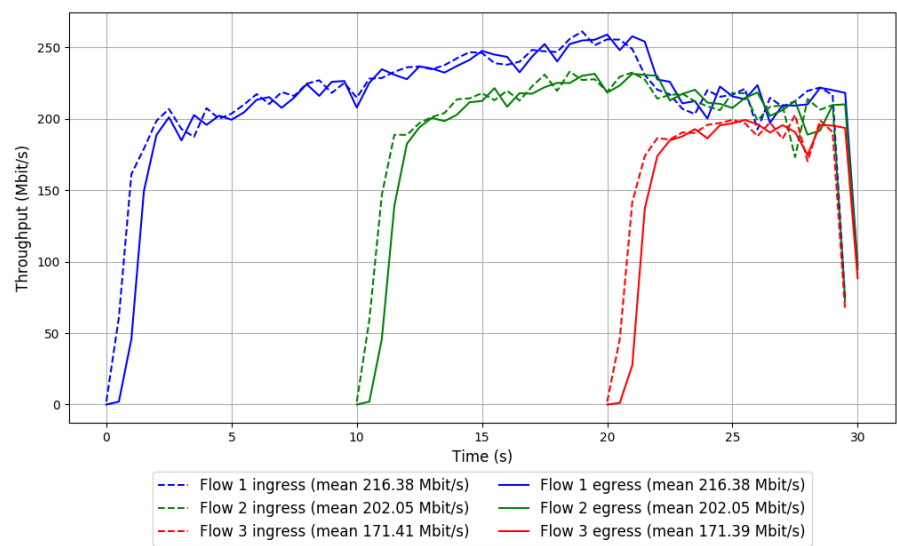
-- Flow 3:

Average throughput: 171.39 Mbit/s

95th percentile per-packet one-way delay: 62.514 ms

Loss rate: 0.03%

Run 4: Report of Indigo — Data Link

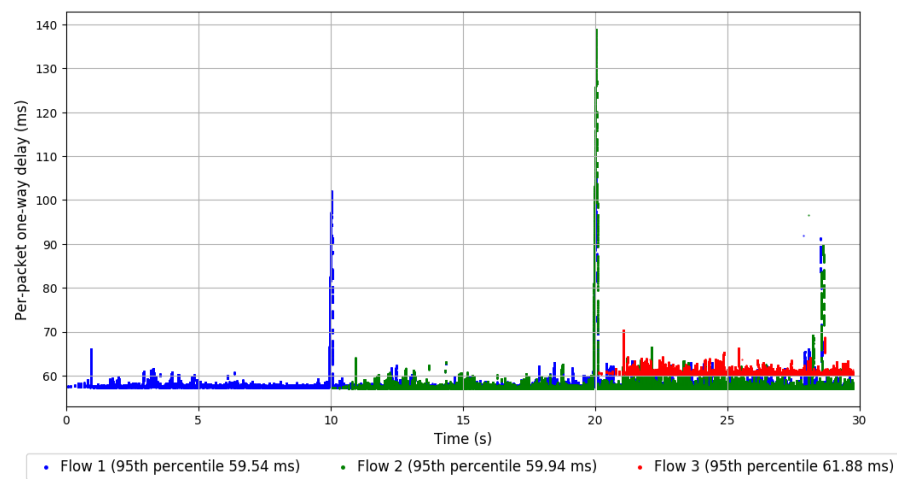
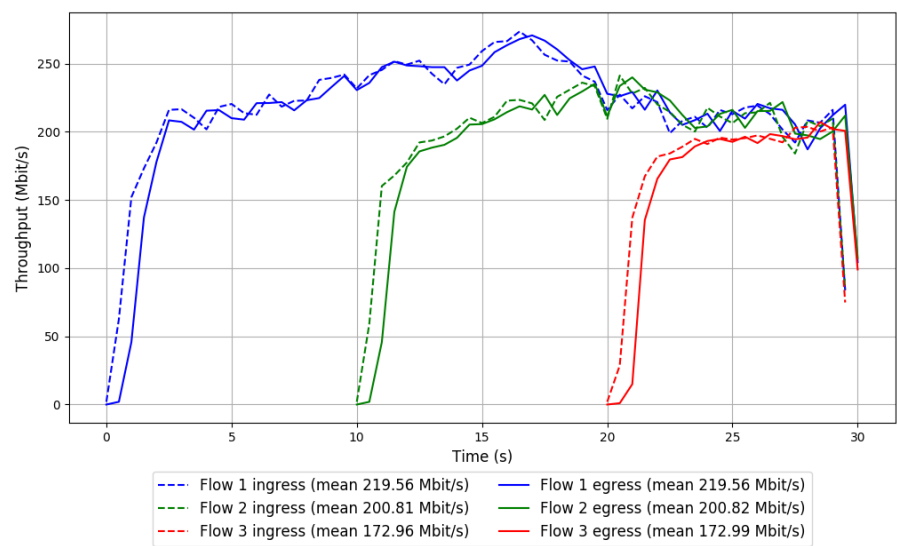


Run 5: Statistics of Indigo

Start at: 2018-12-21 01:28:34
End at: 2018-12-21 01:29:04
Local clock offset: -0.029 ms
Remote clock offset: -0.001 ms

Below is generated by plot.py at 2018-12-21 02:59:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 408.76 Mbit/s
95th percentile per-packet one-way delay: 60.813 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 219.56 Mbit/s
95th percentile per-packet one-way delay: 59.540 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 200.82 Mbit/s
95th percentile per-packet one-way delay: 59.940 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 172.99 Mbit/s
95th percentile per-packet one-way delay: 61.875 ms
Loss rate: 0.01%

Run 5: Report of Indigo — Data Link

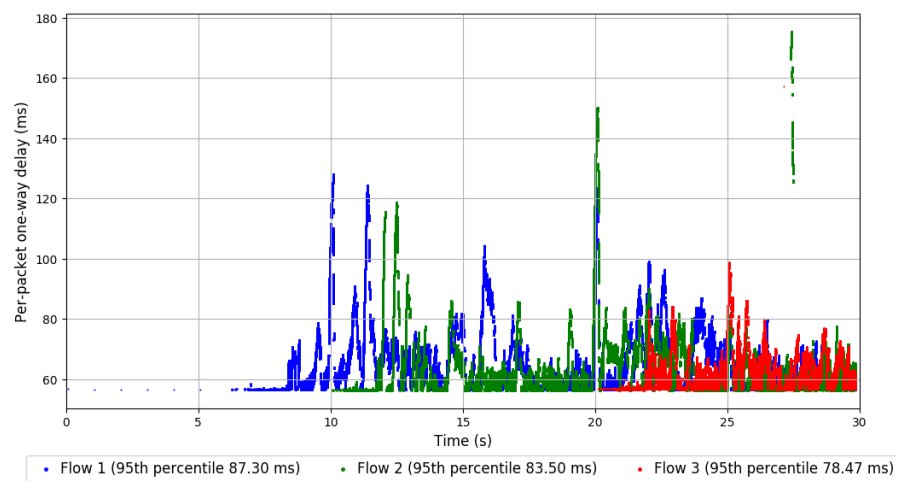
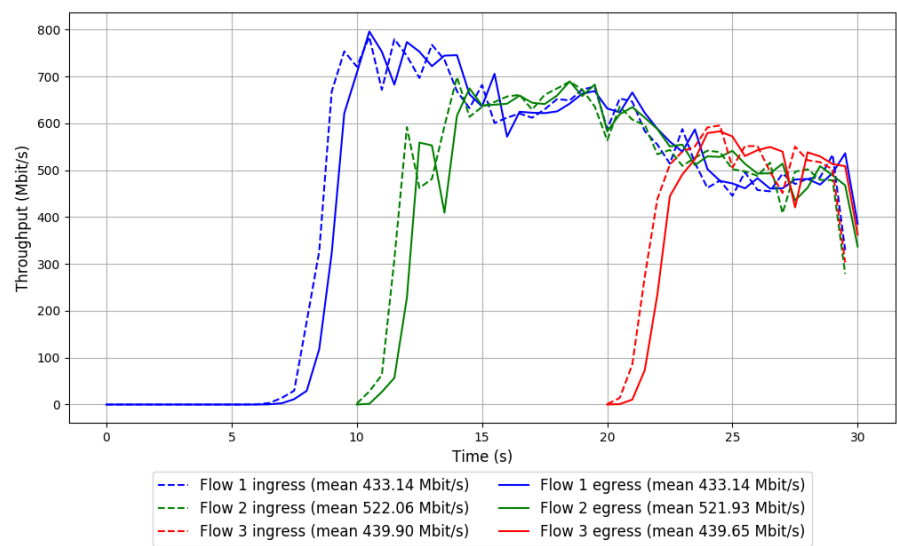


Run 1: Statistics of Indigo-MusesD

Start at: 2018-12-20 22:56:06
End at: 2018-12-20 22:56:36
Local clock offset: 0.144 ms
Remote clock offset: -0.235 ms

Below is generated by plot.py at 2018-12-21 03:03:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 922.97 Mbit/s
95th percentile per-packet one-way delay: 84.500 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 433.14 Mbit/s
95th percentile per-packet one-way delay: 87.300 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 521.93 Mbit/s
95th percentile per-packet one-way delay: 83.497 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 439.65 Mbit/s
95th percentile per-packet one-way delay: 78.469 ms
Loss rate: 0.06%

Run 1: Report of Indigo-MusesD — Data Link

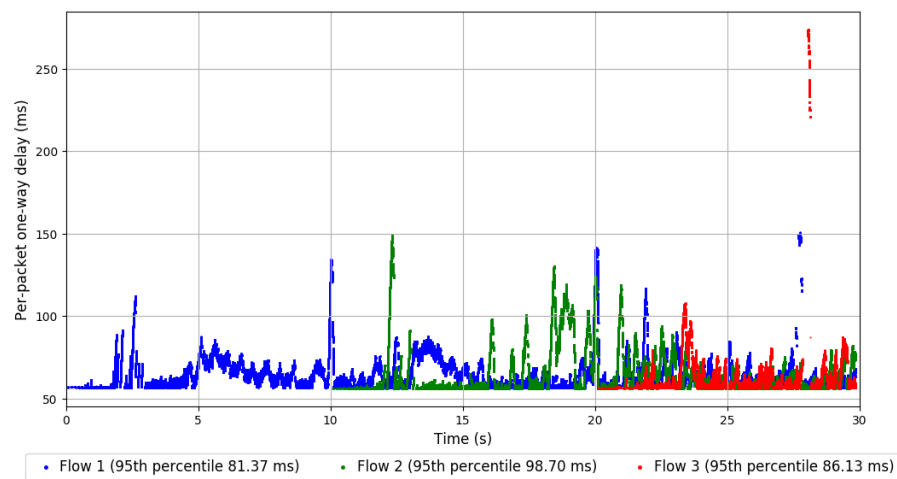
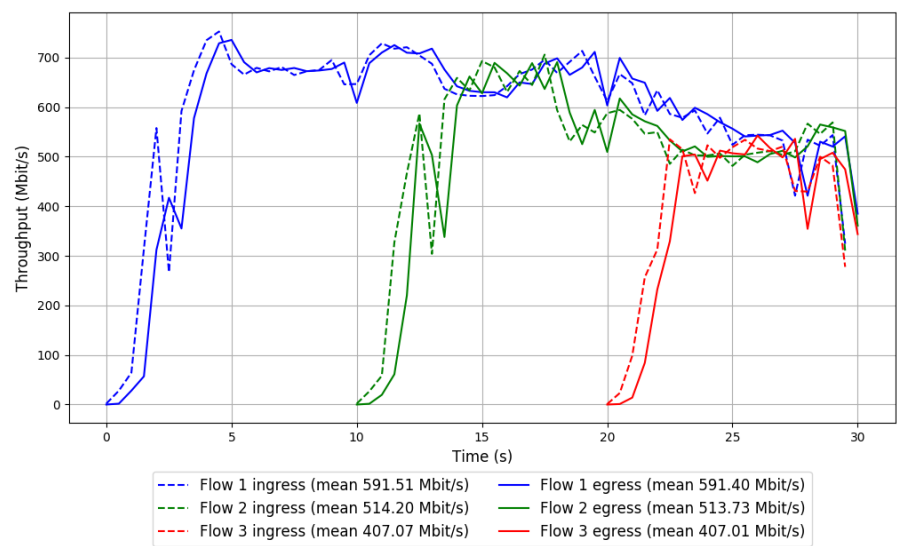


Run 2: Statistics of Indigo-MusesD

Start at: 2018-12-20 23:31:10
End at: 2018-12-20 23:31:40
Local clock offset: 0.114 ms
Remote clock offset: -0.471 ms

Below is generated by plot.py at 2018-12-21 03:06:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 1064.96 Mbit/s
95th percentile per-packet one-way delay: 85.722 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 591.40 Mbit/s
95th percentile per-packet one-way delay: 81.368 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 513.73 Mbit/s
95th percentile per-packet one-way delay: 98.704 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 407.01 Mbit/s
95th percentile per-packet one-way delay: 86.134 ms
Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link

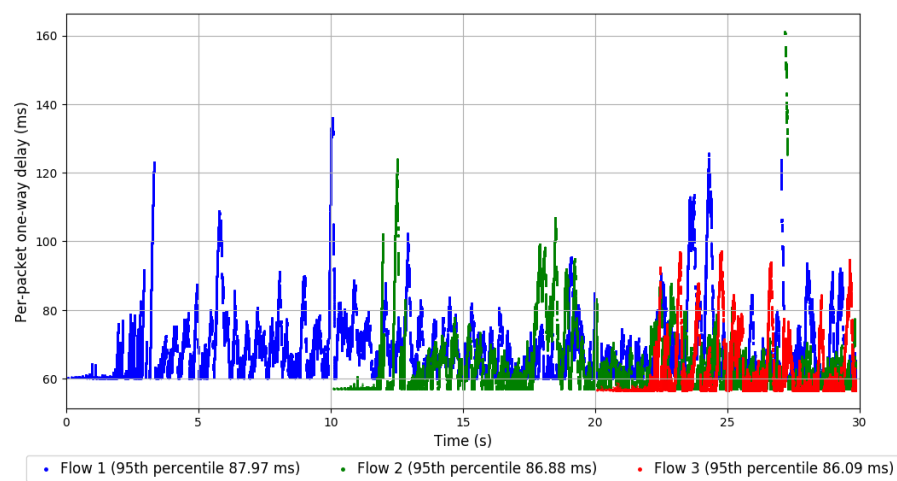
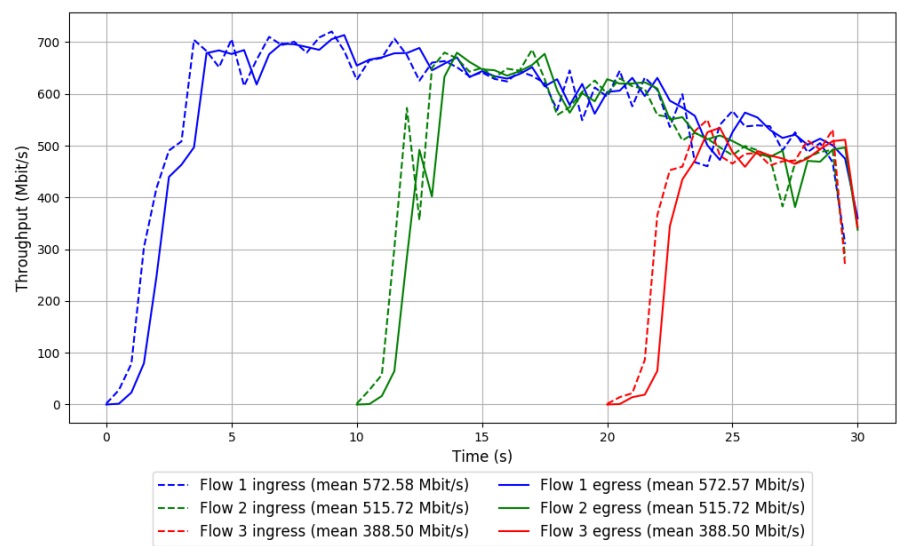


Run 3: Statistics of Indigo-MusesD

Start at: 2018-12-21 00:04:31
End at: 2018-12-21 00:05:01
Local clock offset: -0.189 ms
Remote clock offset: -0.395 ms

Below is generated by plot.py at 2018-12-21 03:17:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 1041.84 Mbit/s
95th percentile per-packet one-way delay: 87.260 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 572.57 Mbit/s
95th percentile per-packet one-way delay: 87.970 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 515.72 Mbit/s
95th percentile per-packet one-way delay: 86.883 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 388.50 Mbit/s
95th percentile per-packet one-way delay: 86.089 ms
Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link

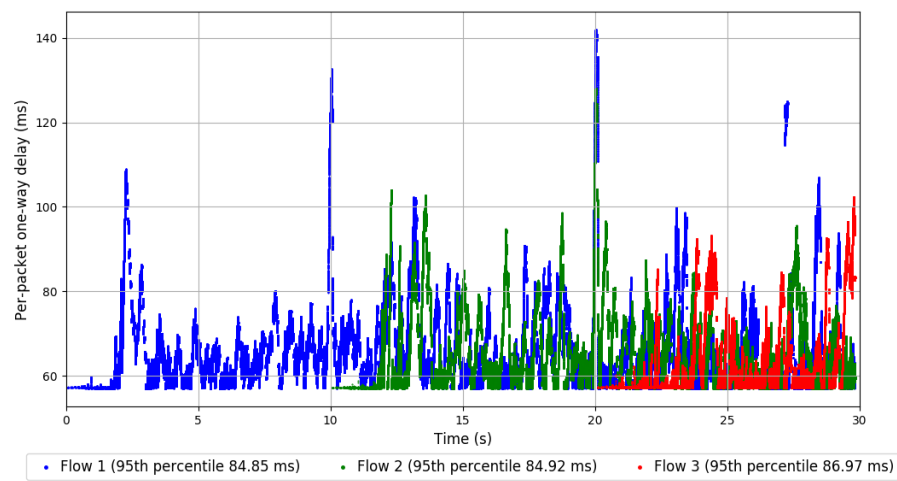
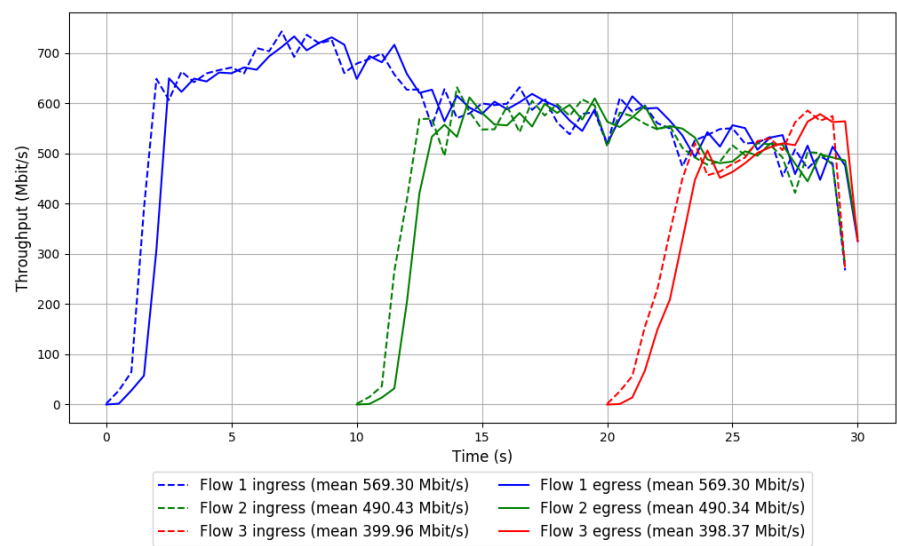


Run 4: Statistics of Indigo-MusesD

Start at: 2018-12-21 00:38:06
End at: 2018-12-21 00:38:36
Local clock offset: -0.273 ms
Remote clock offset: -0.139 ms

Below is generated by plot.py at 2018-12-21 03:17:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 1024.91 Mbit/s
95th percentile per-packet one-way delay: 85.456 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 569.30 Mbit/s
95th percentile per-packet one-way delay: 84.849 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 490.34 Mbit/s
95th percentile per-packet one-way delay: 84.925 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 398.37 Mbit/s
95th percentile per-packet one-way delay: 86.975 ms
Loss rate: 0.39%

Run 4: Report of Indigo-MusesD — Data Link

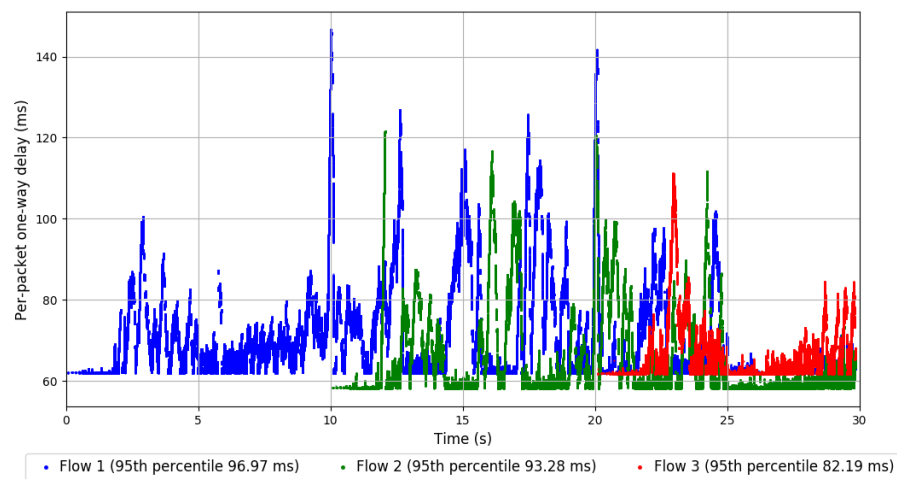
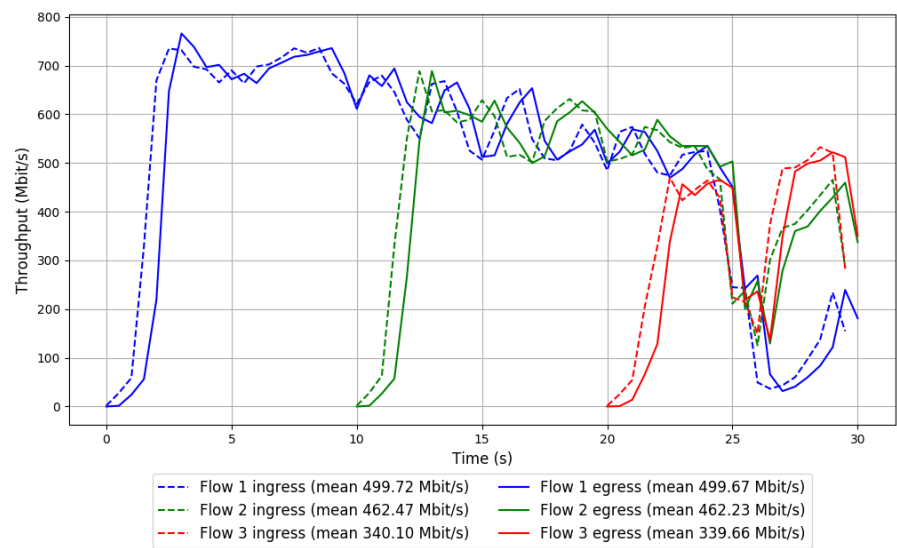


Run 5: Statistics of Indigo-MusesD

Start at: 2018-12-21 01:11:54
End at: 2018-12-21 01:12:24
Local clock offset: -1.733 ms
Remote clock offset: -0.271 ms

Below is generated by plot.py at 2018-12-21 03:17:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 917.61 Mbit/s
95th percentile per-packet one-way delay: 94.880 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 499.67 Mbit/s
95th percentile per-packet one-way delay: 96.972 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 462.23 Mbit/s
95th percentile per-packet one-way delay: 93.276 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 339.66 Mbit/s
95th percentile per-packet one-way delay: 82.187 ms
Loss rate: 0.14%

Run 5: Report of Indigo-MusesD — Data Link

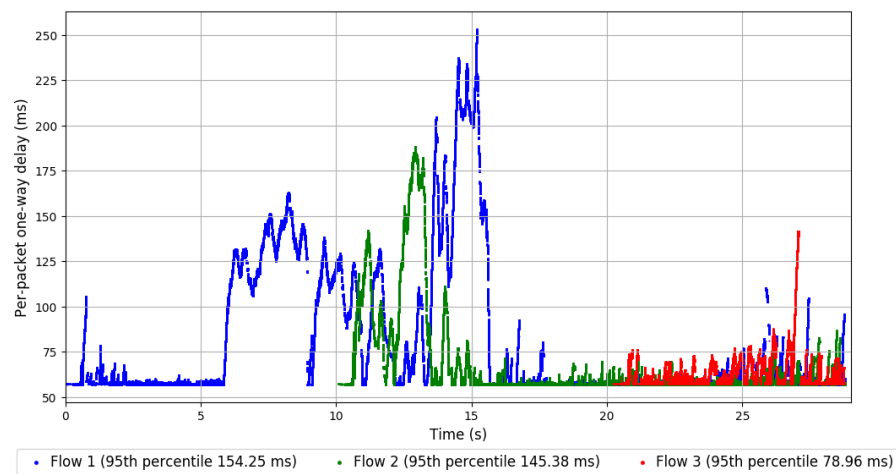
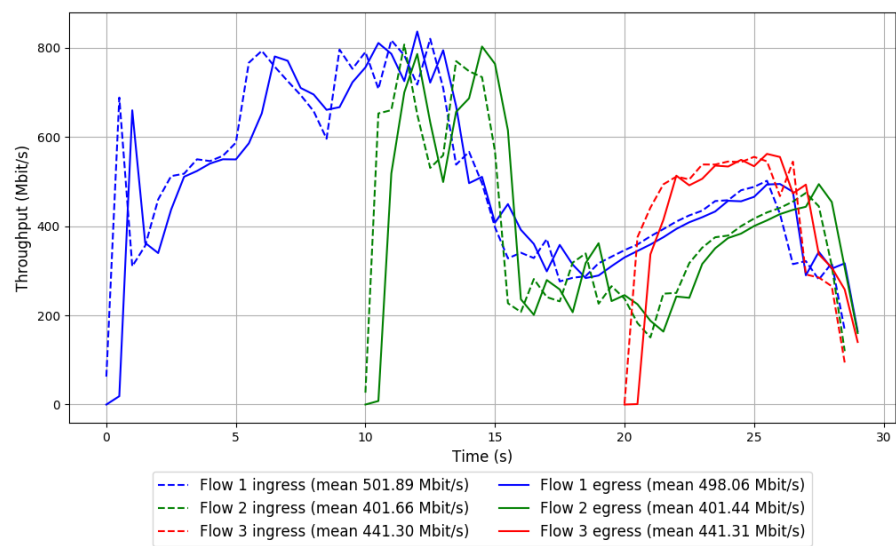


```
Run 1: Statistics of Indigo-MusesT

Start at: 2018-12-20 23:10:25
End at: 2018-12-20 23:10:55
Local clock offset: 0.109 ms
Remote clock offset: 0.039 ms

# Below is generated by plot.py at 2018-12-21 03:17:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 890.55 Mbit/s
95th percentile per-packet one-way delay: 148.668 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 498.06 Mbit/s
95th percentile per-packet one-way delay: 154.246 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 401.44 Mbit/s
95th percentile per-packet one-way delay: 145.378 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 441.31 Mbit/s
95th percentile per-packet one-way delay: 78.956 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesT — Data Link

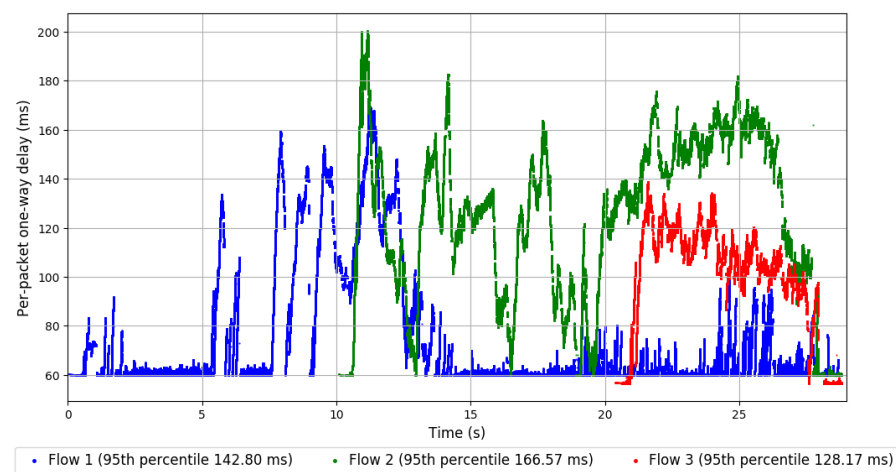
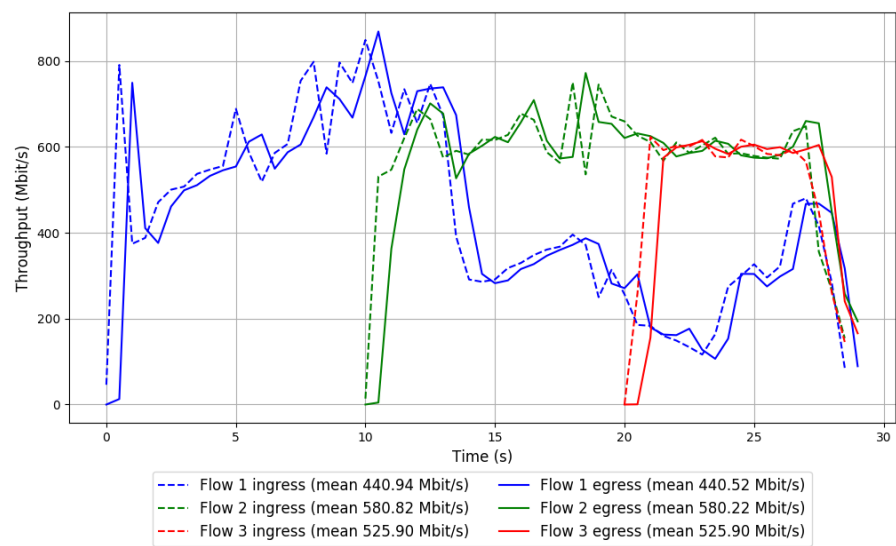


Run 2: Statistics of Indigo-MusesT

Start at: 2018-12-20 23:44:38
End at: 2018-12-20 23:45:08
Local clock offset: 0.153 ms
Remote clock offset: -0.256 ms

Below is generated by plot.py at 2018-12-21 03:17:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 971.74 Mbit/s
95th percentile per-packet one-way delay: 160.464 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 440.52 Mbit/s
95th percentile per-packet one-way delay: 142.797 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 580.22 Mbit/s
95th percentile per-packet one-way delay: 166.575 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 525.90 Mbit/s
95th percentile per-packet one-way delay: 128.166 ms
Loss rate: 0.00%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2018-12-21 00:18:08

End at: 2018-12-21 00:18:38

Local clock offset: -1.919 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2018-12-21 03:17:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 957.29 Mbit/s

95th percentile per-packet one-way delay: 147.283 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 628.62 Mbit/s

95th percentile per-packet one-way delay: 154.023 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 351.26 Mbit/s

95th percentile per-packet one-way delay: 81.384 ms

Loss rate: 0.00%

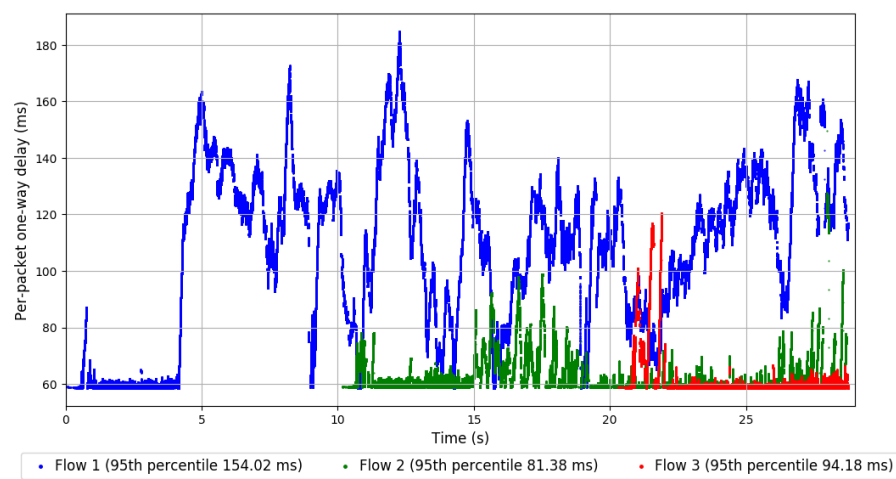
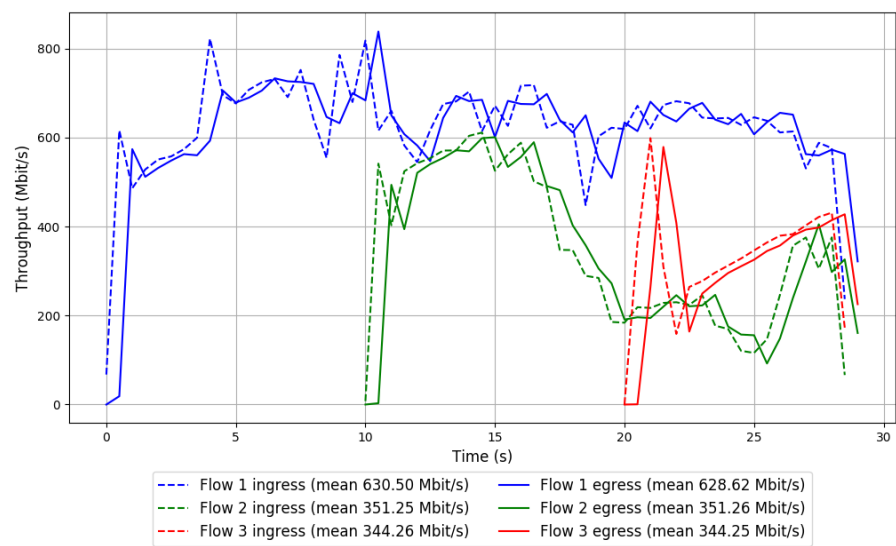
-- Flow 3:

Average throughput: 344.25 Mbit/s

95th percentile per-packet one-way delay: 94.184 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2018-12-21 00:52:09

End at: 2018-12-21 00:52:39

Local clock offset: 0.099 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2018-12-21 03:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 887.82 Mbit/s

95th percentile per-packet one-way delay: 146.773 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 421.83 Mbit/s

95th percentile per-packet one-way delay: 107.497 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 588.45 Mbit/s

95th percentile per-packet one-way delay: 155.797 ms

Loss rate: 0.18%

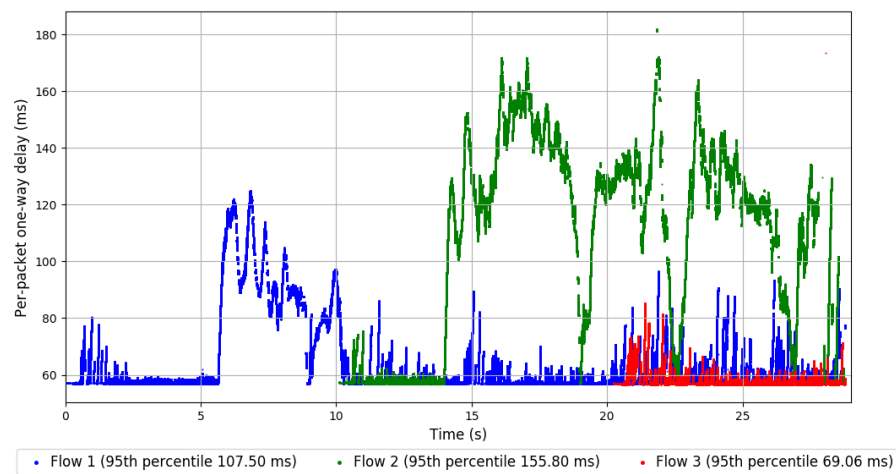
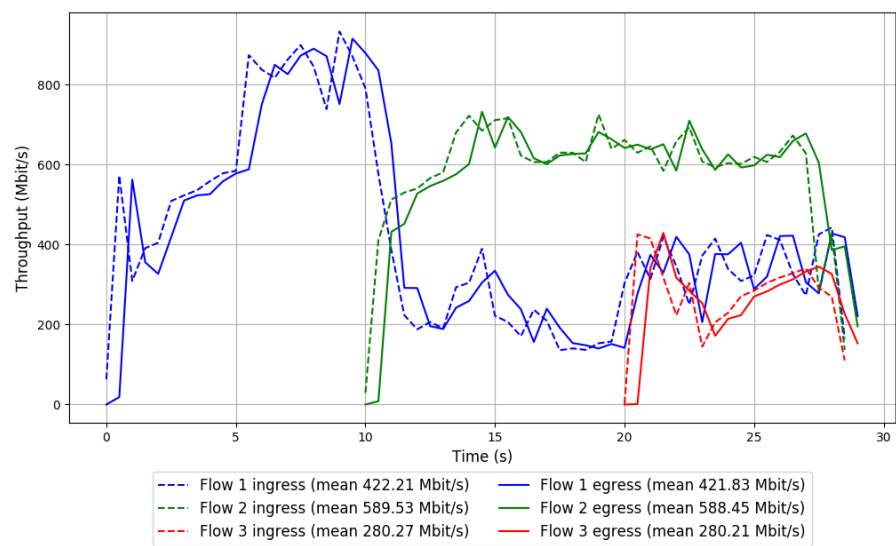
-- Flow 3:

Average throughput: 280.21 Mbit/s

95th percentile per-packet one-way delay: 69.055 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesT — Data Link

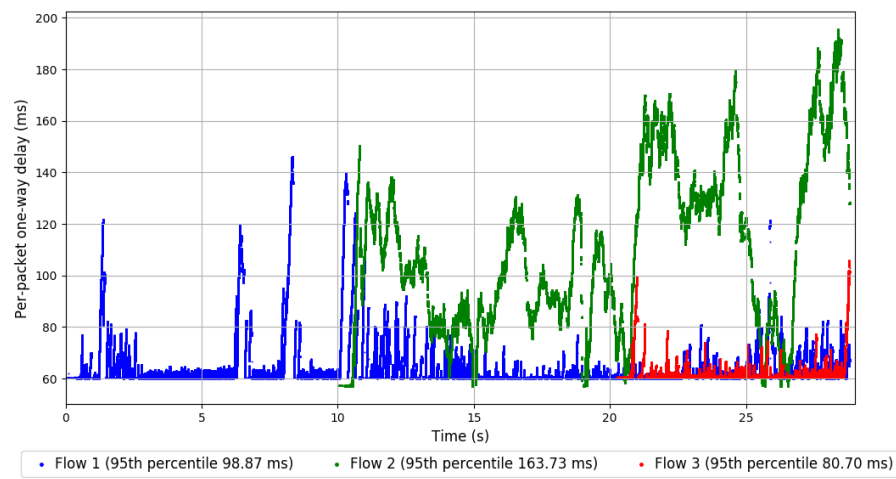
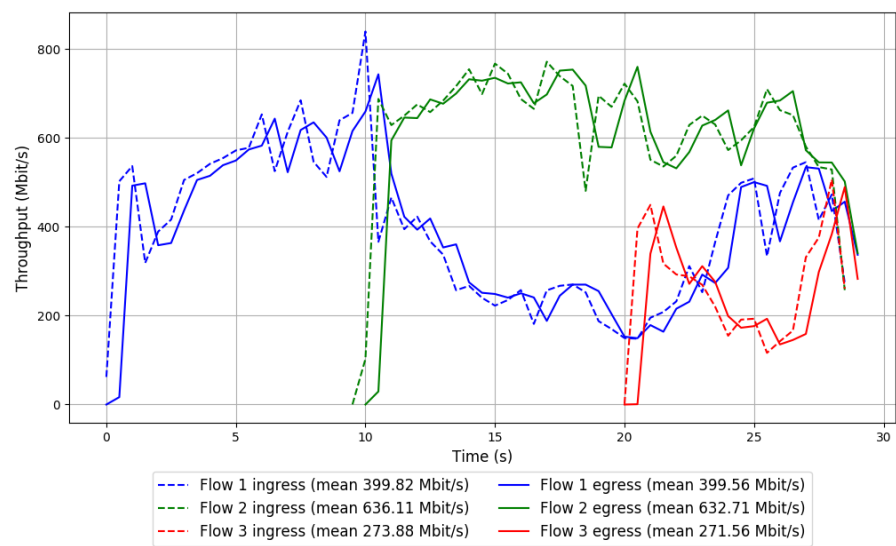


Run 5: Statistics of Indigo-MusesT

Start at: 2018-12-21 01:25:20
End at: 2018-12-21 01:25:50
Local clock offset: -0.21 ms
Remote clock offset: -0.162 ms

Below is generated by plot.py at 2018-12-21 03:23:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 893.28 Mbit/s
95th percentile per-packet one-way delay: 153.625 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 399.56 Mbit/s
95th percentile per-packet one-way delay: 98.866 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 632.71 Mbit/s
95th percentile per-packet one-way delay: 163.734 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 271.56 Mbit/s
95th percentile per-packet one-way delay: 80.700 ms
Loss rate: 0.87%

Run 5: Report of Indigo-MusesT — Data Link

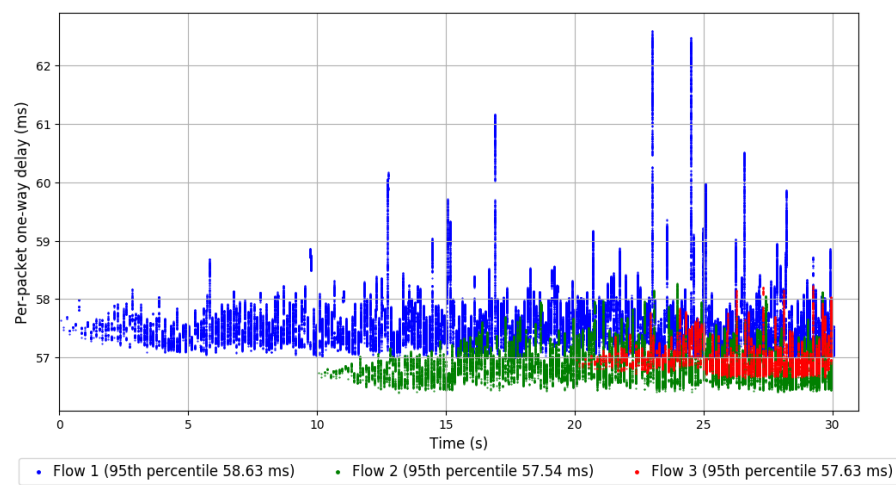
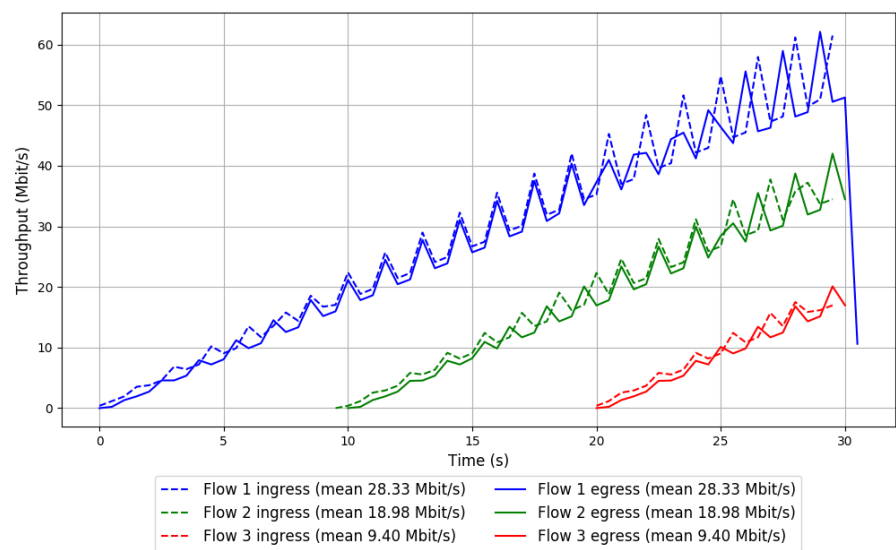



```
Run 1: Statistics of LEDBAT

Start at: 2018-12-20 23:12:26
End at: 2018-12-20 23:12:56
Local clock offset: 0.096 ms
Remote clock offset: -0.201 ms

# Below is generated by plot.py at 2018-12-21 03:23:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 44.02 Mbit/s
95th percentile per-packet one-way delay: 58.302 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.33 Mbit/s
95th percentile per-packet one-way delay: 58.628 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 18.98 Mbit/s
95th percentile per-packet one-way delay: 57.543 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.40 Mbit/s
95th percentile per-packet one-way delay: 57.632 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

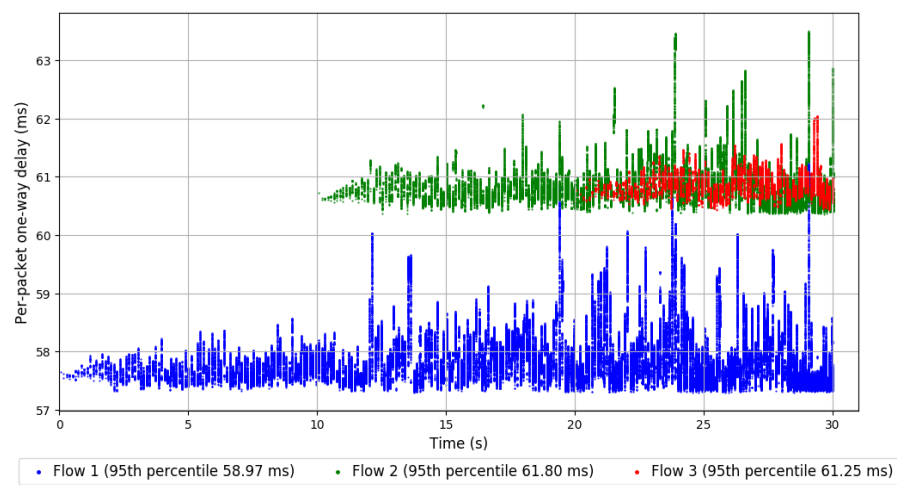
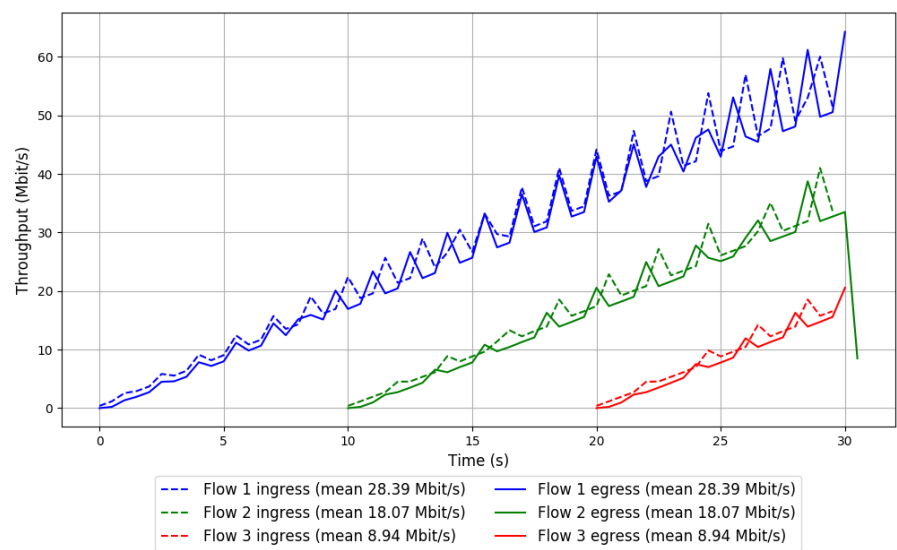


```
Run 2: Statistics of LEDBAT

Start at: 2018-12-20 23:46:38
End at: 2018-12-20 23:47:08
Local clock offset: -0.077 ms
Remote clock offset: 0.169 ms

# Below is generated by plot.py at 2018-12-21 03:23:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.35 Mbit/s
95th percentile per-packet one-way delay: 61.215 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.39 Mbit/s
95th percentile per-packet one-way delay: 58.967 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 18.07 Mbit/s
95th percentile per-packet one-way delay: 61.799 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.94 Mbit/s
95th percentile per-packet one-way delay: 61.253 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

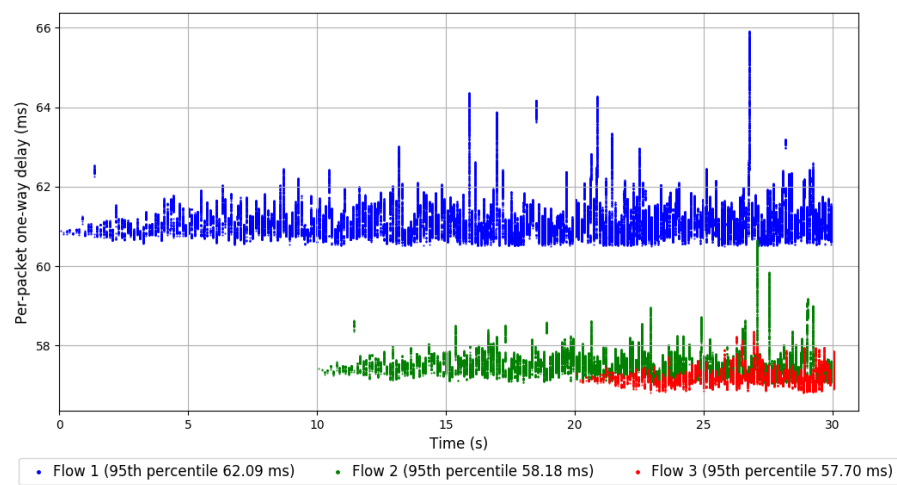
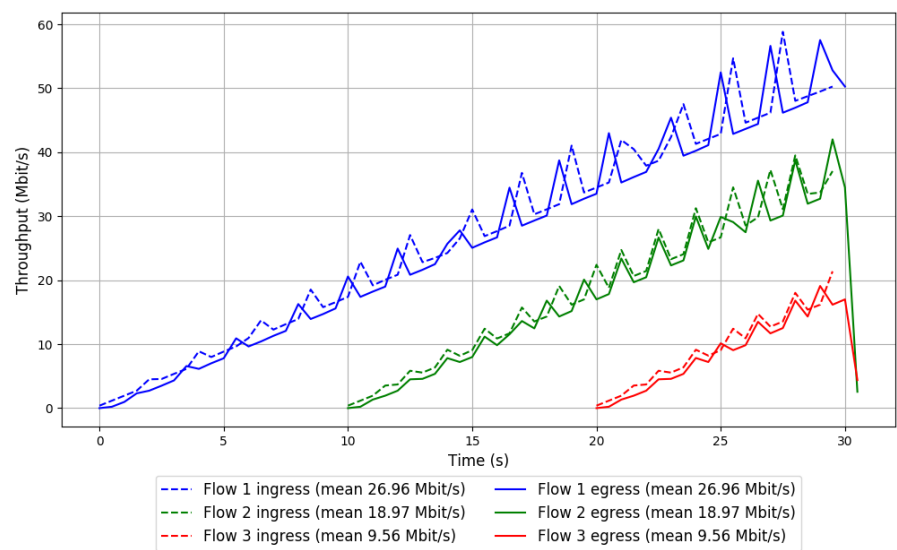


Run 3: Statistics of LEDBAT

Start at: 2018-12-21 00:20:07
End at: 2018-12-21 00:20:37
Local clock offset: -0.139 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2018-12-21 03:23:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 42.68 Mbit/s
95th percentile per-packet one-way delay: 61.859 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 26.96 Mbit/s
95th percentile per-packet one-way delay: 62.087 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 18.97 Mbit/s
95th percentile per-packet one-way delay: 58.181 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.56 Mbit/s
95th percentile per-packet one-way delay: 57.702 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-12-21 00:54:07

End at: 2018-12-21 00:54:37

Local clock offset: -0.073 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-12-21 03:23:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.16 Mbit/s

95th percentile per-packet one-way delay: 58.558 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 28.42 Mbit/s

95th percentile per-packet one-way delay: 58.648 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 18.98 Mbit/s

95th percentile per-packet one-way delay: 58.468 ms

Loss rate: 0.00%

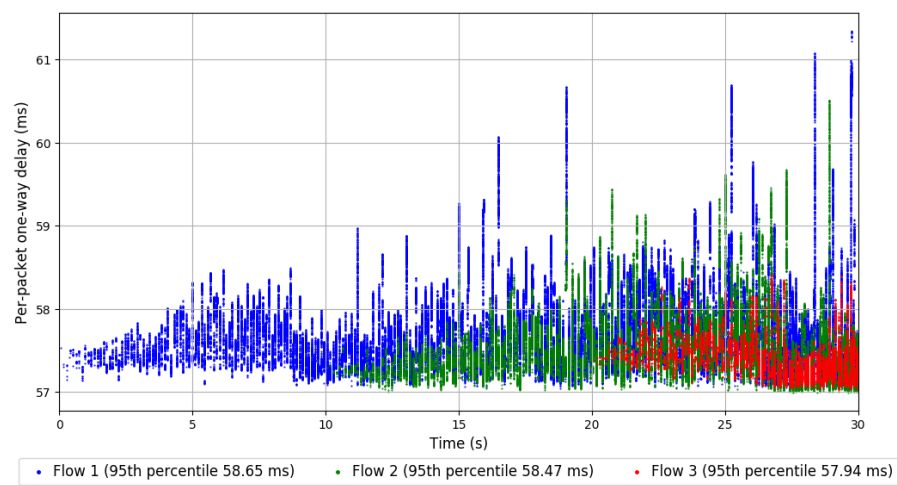
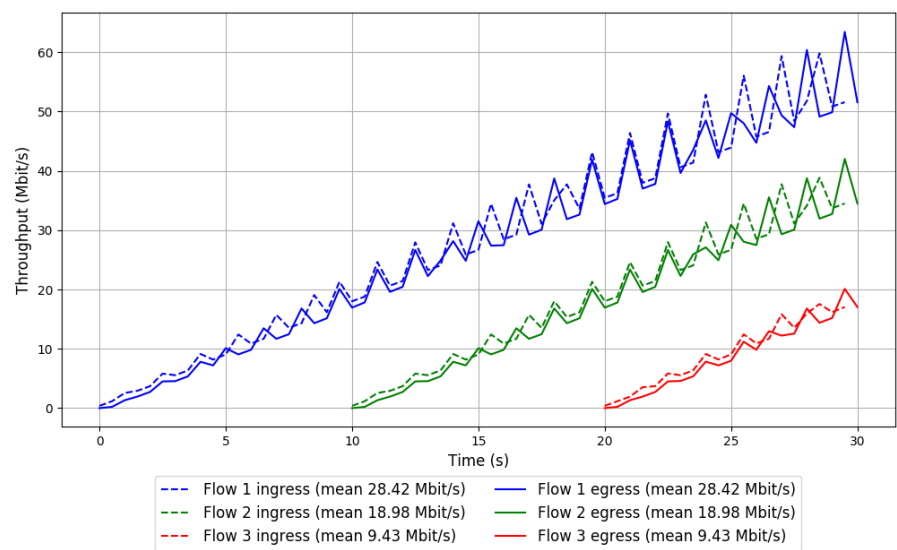
-- Flow 3:

Average throughput: 9.43 Mbit/s

95th percentile per-packet one-way delay: 57.944 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

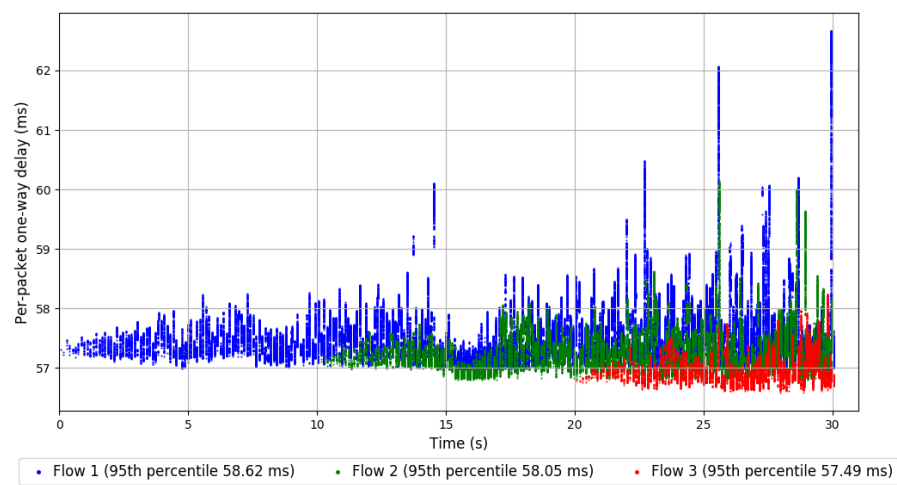
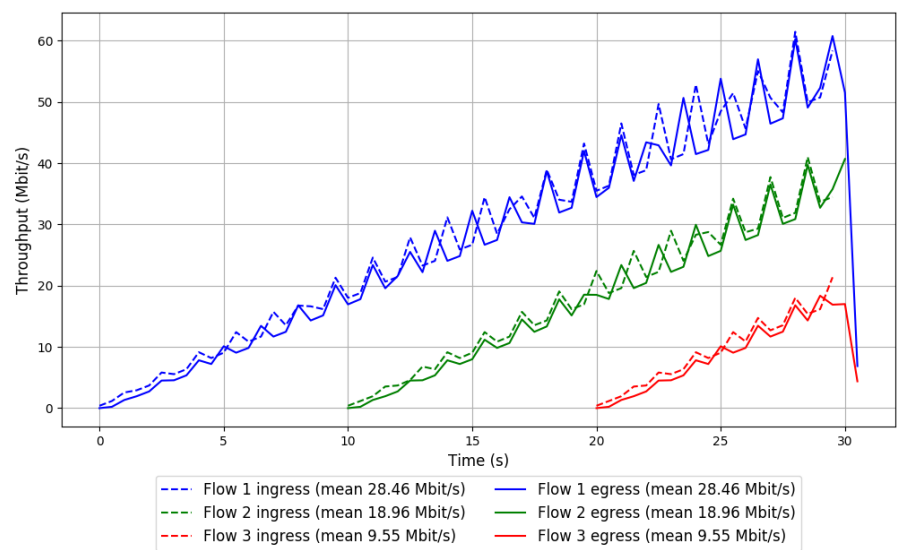


Run 5: Statistics of LEDBAT

Start at: 2018-12-21 01:27:17
End at: 2018-12-21 01:27:47
Local clock offset: 0.071 ms
Remote clock offset: -0.079 ms

Below is generated by plot.py at 2018-12-21 03:23:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 44.22 Mbit/s
95th percentile per-packet one-way delay: 58.438 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.46 Mbit/s
95th percentile per-packet one-way delay: 58.616 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 18.96 Mbit/s
95th percentile per-packet one-way delay: 58.045 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.55 Mbit/s
95th percentile per-packet one-way delay: 57.492 ms
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

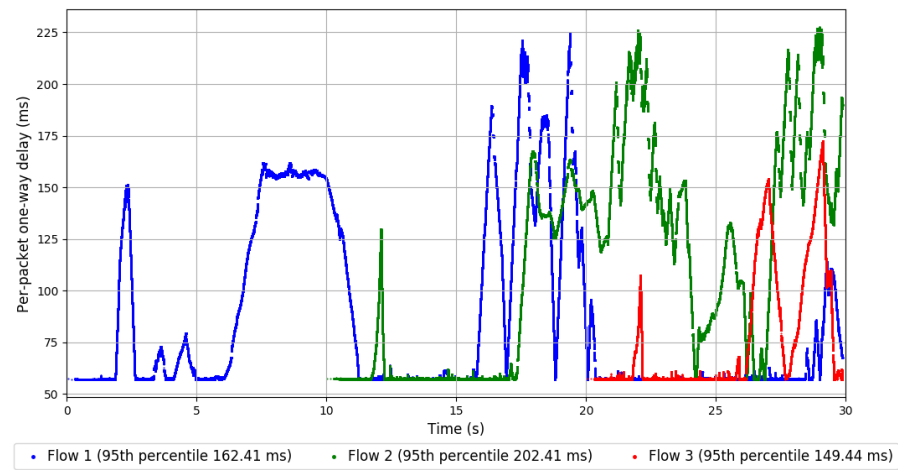
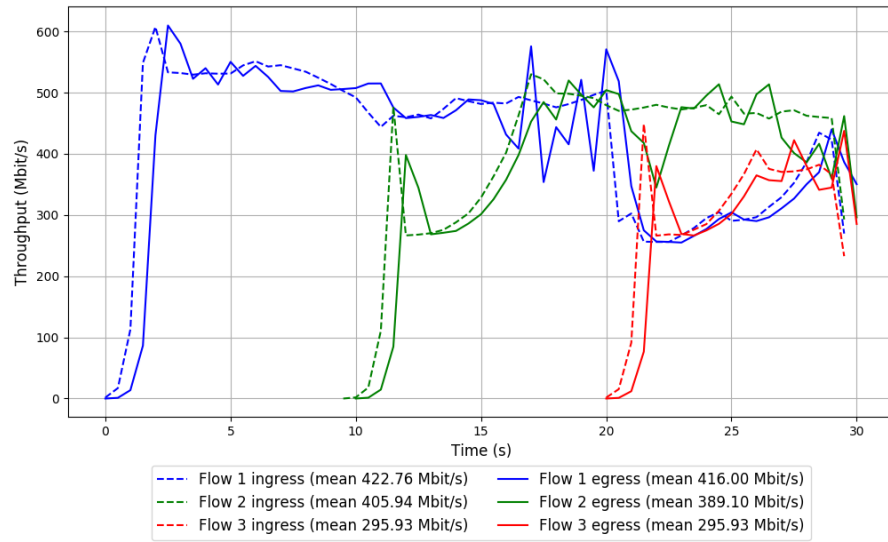


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-12-20 22:45:06
End at: 2018-12-20 22:45:36
Local clock offset: -0.085 ms
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2018-12-21 03:44:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 772.24 Mbit/s
95th percentile per-packet one-way delay: 180.008 ms
Loss rate: 2.27%
-- Flow 1:
Average throughput: 416.00 Mbit/s
95th percentile per-packet one-way delay: 162.414 ms
Loss rate: 1.60%
-- Flow 2:
Average throughput: 389.10 Mbit/s
95th percentile per-packet one-way delay: 202.413 ms
Loss rate: 4.15%
-- Flow 3:
Average throughput: 295.93 Mbit/s
95th percentile per-packet one-way delay: 149.440 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-12-20 23:19:28

End at: 2018-12-20 23:19:58

Local clock offset: -1.87 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2018-12-21 03:44:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 735.11 Mbit/s

95th percentile per-packet one-way delay: 197.395 ms

Loss rate: 2.88%

-- Flow 1:

Average throughput: 407.89 Mbit/s

95th percentile per-packet one-way delay: 200.676 ms

Loss rate: 3.42%

-- Flow 2:

Average throughput: 357.46 Mbit/s

95th percentile per-packet one-way delay: 190.061 ms

Loss rate: 2.22%

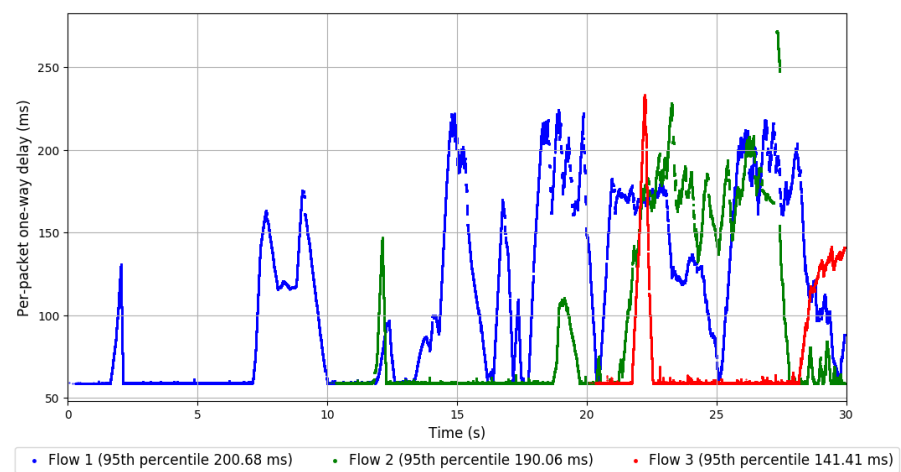
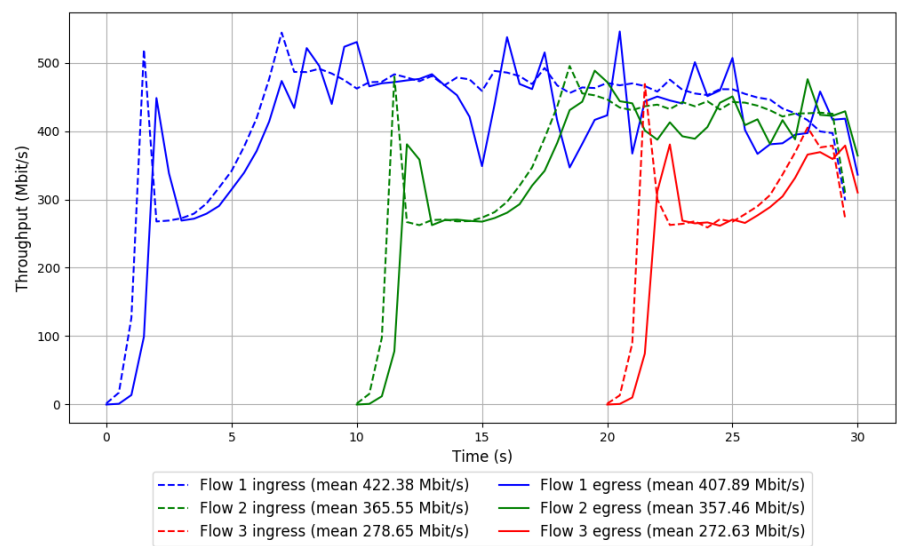
-- Flow 3:

Average throughput: 272.63 Mbit/s

95th percentile per-packet one-way delay: 141.407 ms

Loss rate: 2.14%

Run 2: Report of PCC-Allegro — Data Link

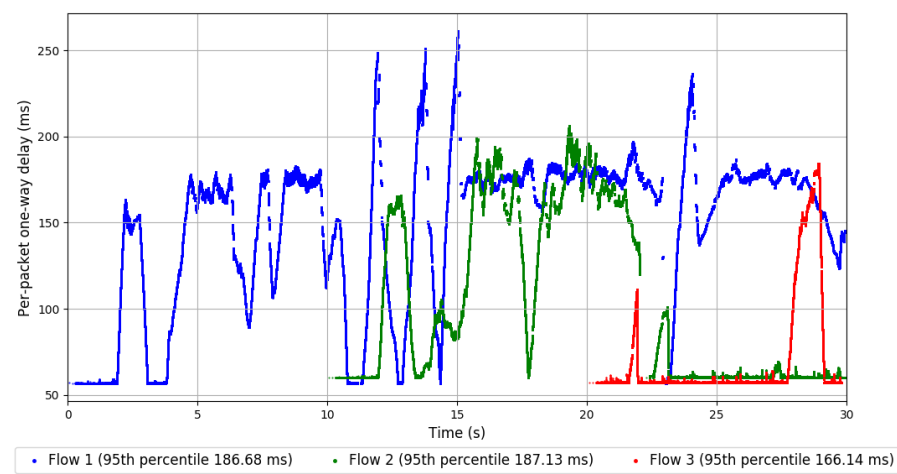
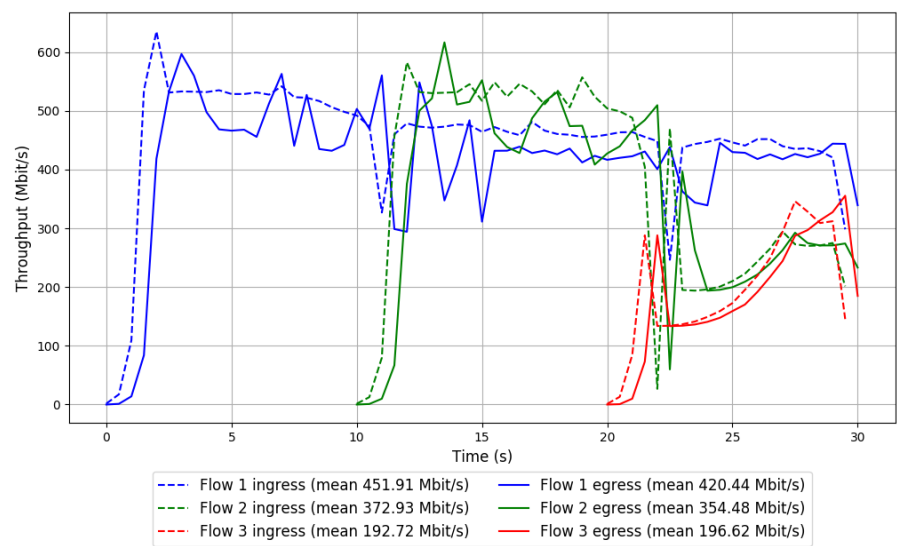


Run 3: Statistics of PCC-Allegro

Start at: 2018-12-20 23:53:27
End at: 2018-12-20 23:53:57
Local clock offset: -0.141 ms
Remote clock offset: -0.583 ms

Below is generated by plot.py at 2018-12-21 03:44:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 719.87 Mbit/s
95th percentile per-packet one-way delay: 185.777 ms
Loss rate: 5.73%
-- Flow 1:
Average throughput: 420.44 Mbit/s
95th percentile per-packet one-way delay: 186.684 ms
Loss rate: 6.97%
-- Flow 2:
Average throughput: 354.48 Mbit/s
95th percentile per-packet one-way delay: 187.130 ms
Loss rate: 4.96%
-- Flow 3:
Average throughput: 196.62 Mbit/s
95th percentile per-packet one-way delay: 166.141 ms
Loss rate: 0.00%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-12-21 00:26:55

End at: 2018-12-21 00:27:25

Local clock offset: -0.108 ms

Remote clock offset: -0.5 ms

Below is generated by plot.py at 2018-12-21 03:44:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 712.48 Mbit/s

95th percentile per-packet one-way delay: 182.591 ms

Loss rate: 4.15%

-- Flow 1:

Average throughput: 368.03 Mbit/s

95th percentile per-packet one-way delay: 183.325 ms

Loss rate: 6.57%

-- Flow 2:

Average throughput: 380.20 Mbit/s

95th percentile per-packet one-way delay: 185.692 ms

Loss rate: 1.94%

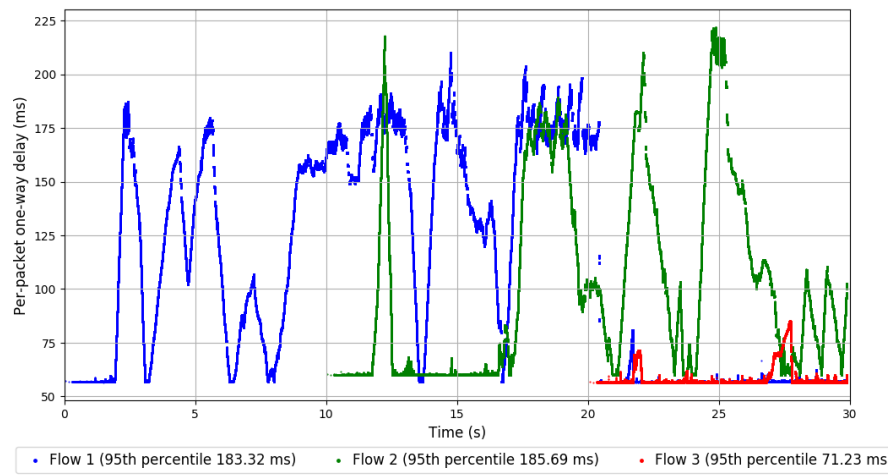
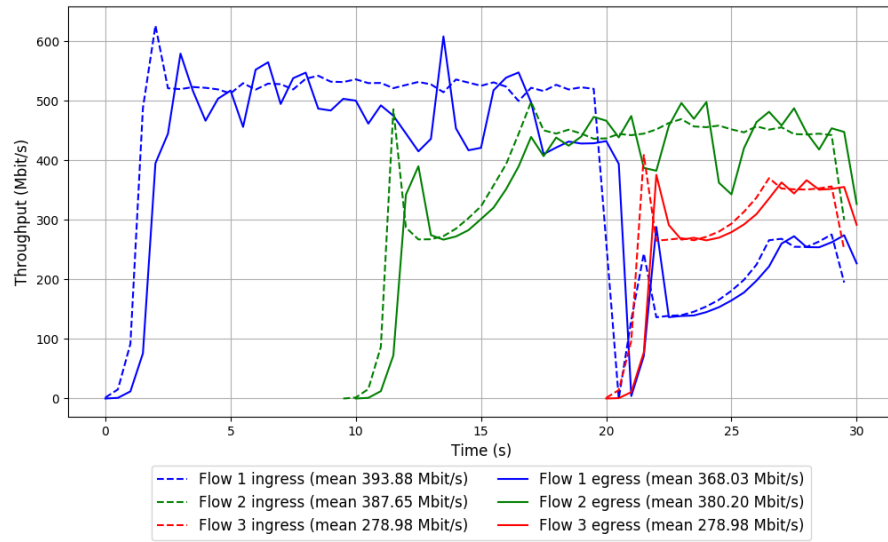
-- Flow 3:

Average throughput: 278.98 Mbit/s

95th percentile per-packet one-way delay: 71.231 ms

Loss rate: 0.00%

Run 4: Report of PCC-Allegro — Data Link

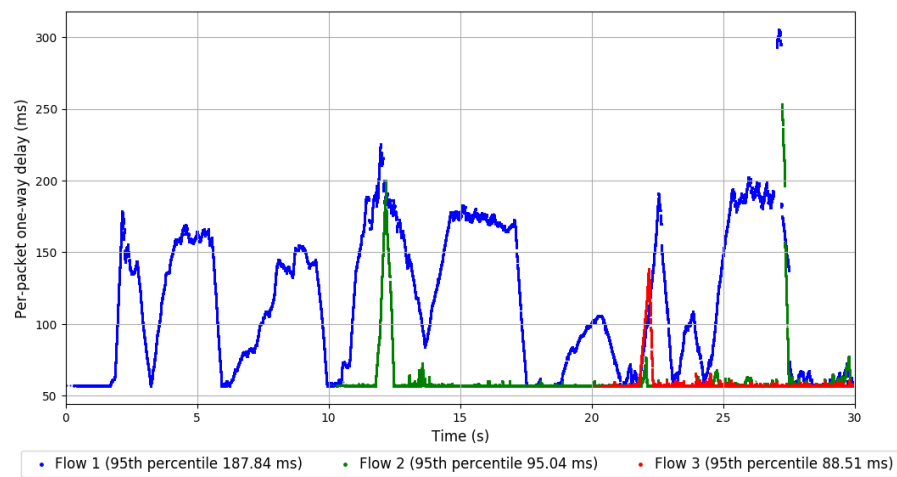
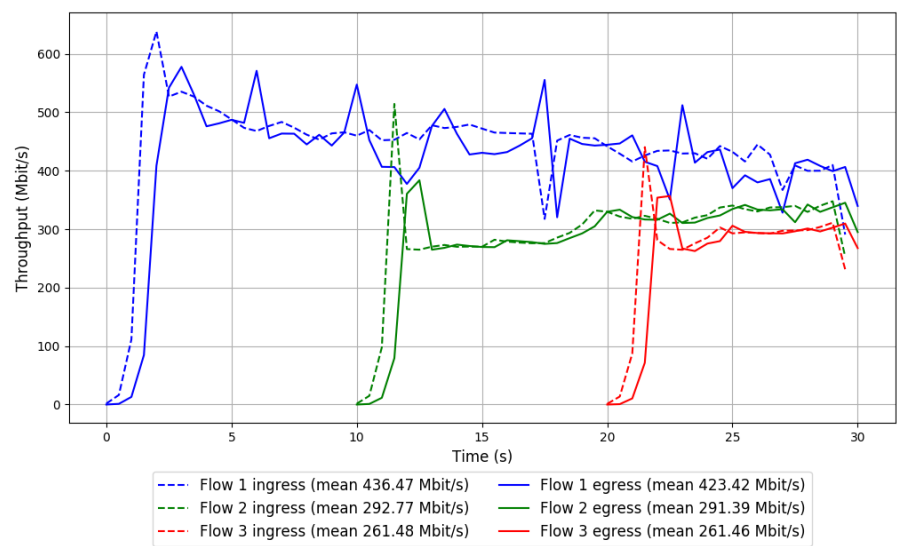


Run 5: Statistics of PCC-Allegro

Start at: 2018-12-21 01:01:01
End at: 2018-12-21 01:01:31
Local clock offset: 0.117 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2018-12-21 03:44:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 703.03 Mbit/s
95th percentile per-packet one-way delay: 183.592 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 423.42 Mbit/s
95th percentile per-packet one-way delay: 187.843 ms
Loss rate: 2.99%
-- Flow 2:
Average throughput: 291.39 Mbit/s
95th percentile per-packet one-way delay: 95.039 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 261.46 Mbit/s
95th percentile per-packet one-way delay: 88.513 ms
Loss rate: 0.00%

Run 5: Report of PCC-Allegro — Data Link

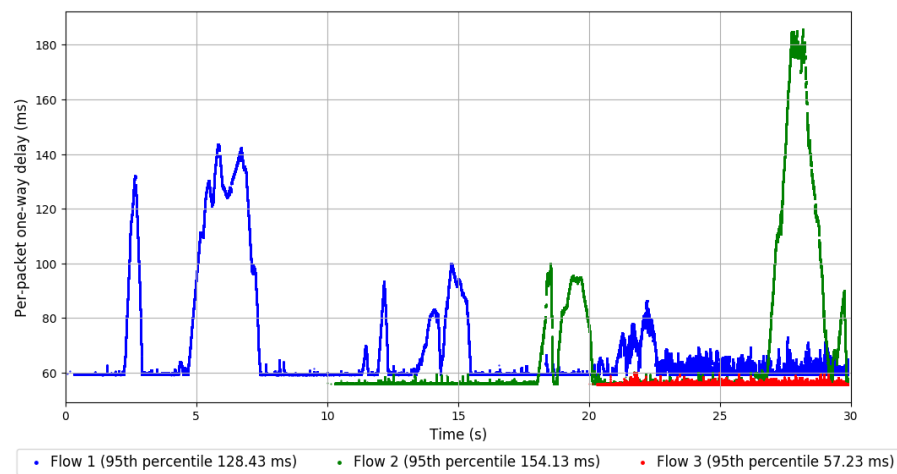
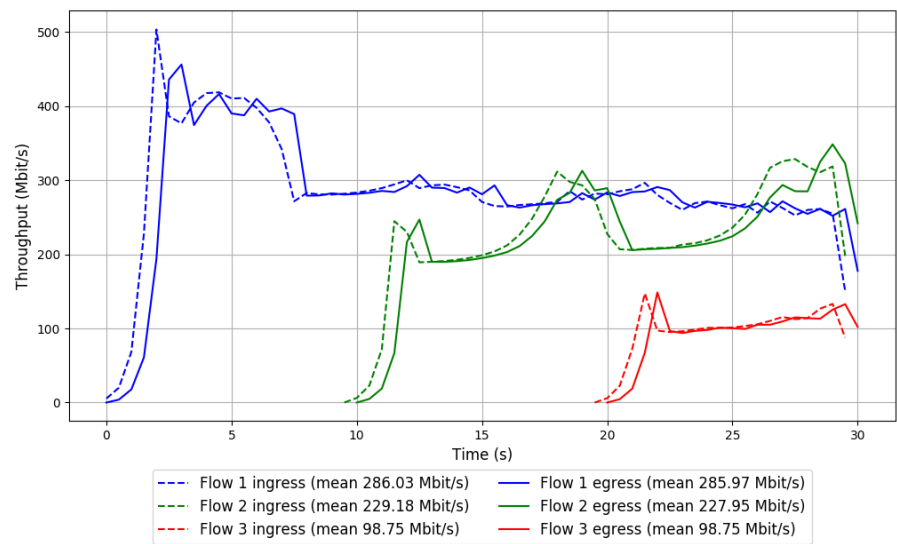


```
Run 1: Statistics of PCC-Expr

Start at: 2018-12-20 23:08:23
End at: 2018-12-20 23:08:53
Local clock offset: 1.21 ms
Remote clock offset: 0.225 ms

# Below is generated by plot.py at 2018-12-21 03:44:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 470.49 Mbit/s
95th percentile per-packet one-way delay: 130.136 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 285.97 Mbit/s
95th percentile per-packet one-way delay: 128.427 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 227.95 Mbit/s
95th percentile per-packet one-way delay: 154.135 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 98.75 Mbit/s
95th percentile per-packet one-way delay: 57.231 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Expr — Data Link

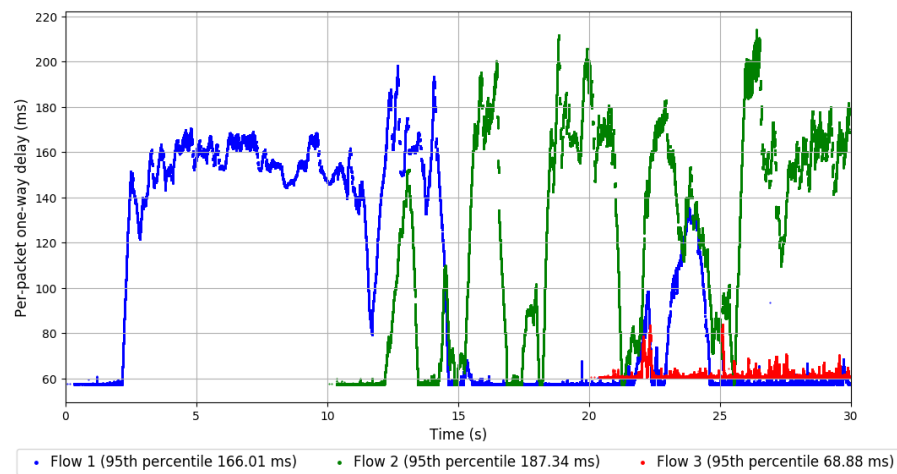
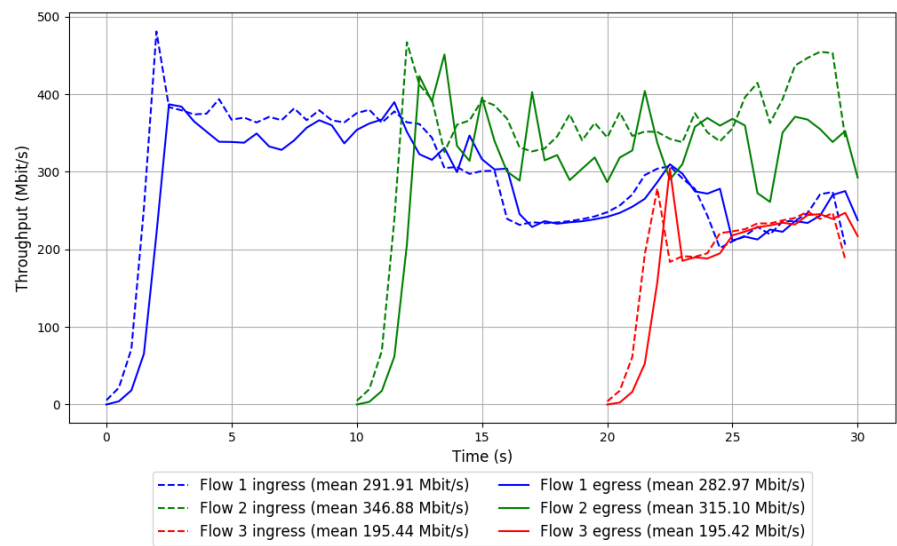


Run 2: Statistics of PCC-Expr

Start at: 2018-12-20 23:42:34
End at: 2018-12-20 23:43:04
Local clock offset: -0.555 ms
Remote clock offset: -0.091 ms

Below is generated by plot.py at 2018-12-21 03:44:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 556.97 Mbit/s
95th percentile per-packet one-way delay: 173.772 ms
Loss rate: 5.13%
-- Flow 1:
Average throughput: 282.97 Mbit/s
95th percentile per-packet one-way delay: 166.009 ms
Loss rate: 3.06%
-- Flow 2:
Average throughput: 315.10 Mbit/s
95th percentile per-packet one-way delay: 187.343 ms
Loss rate: 9.16%
-- Flow 3:
Average throughput: 195.42 Mbit/s
95th percentile per-packet one-way delay: 68.877 ms
Loss rate: 0.04%

Run 2: Report of PCC-Expr — Data Link

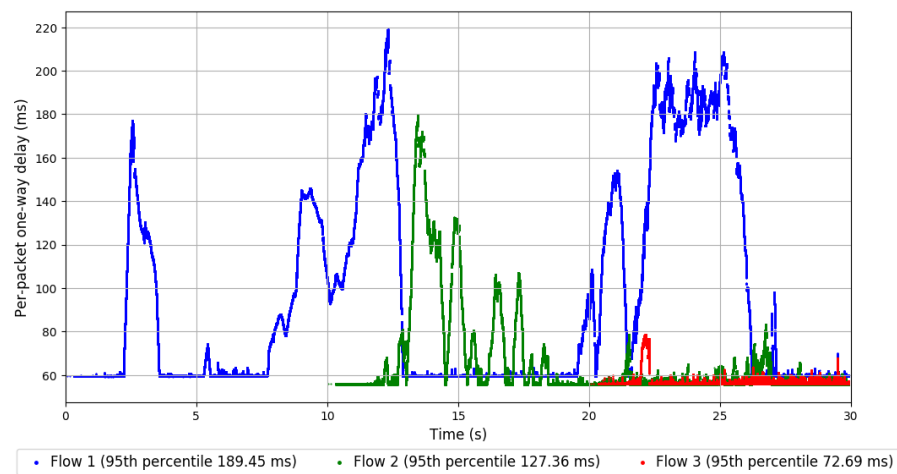
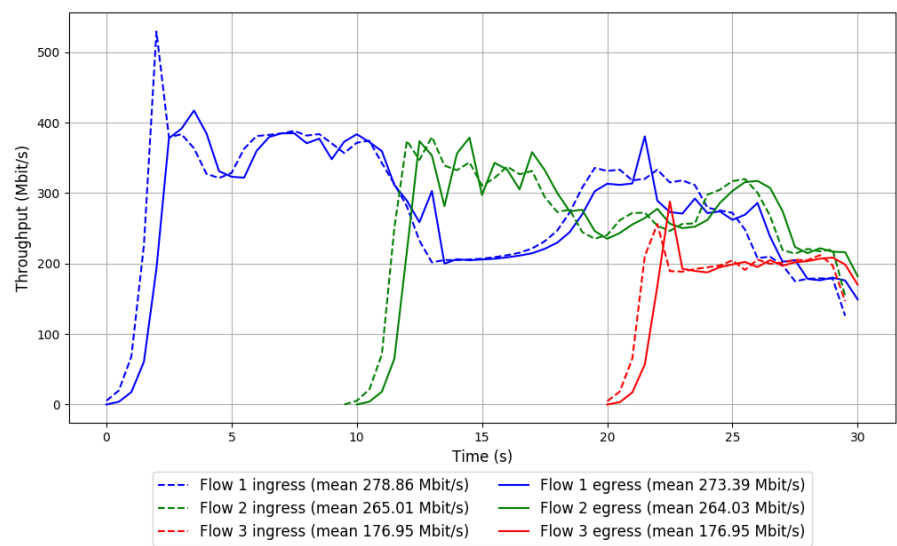


Run 3: Statistics of PCC-Expr

Start at: 2018-12-21 00:16:07
End at: 2018-12-21 00:16:37
Local clock offset: 1.088 ms
Remote clock offset: -0.112 ms

Below is generated by plot.py at 2018-12-21 03:44:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 507.57 Mbit/s
95th percentile per-packet one-way delay: 180.872 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 273.39 Mbit/s
95th percentile per-packet one-way delay: 189.449 ms
Loss rate: 1.97%
-- Flow 2:
Average throughput: 264.03 Mbit/s
95th percentile per-packet one-way delay: 127.363 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 176.95 Mbit/s
95th percentile per-packet one-way delay: 72.694 ms
Loss rate: 0.00%

Run 3: Report of PCC-Expr — Data Link

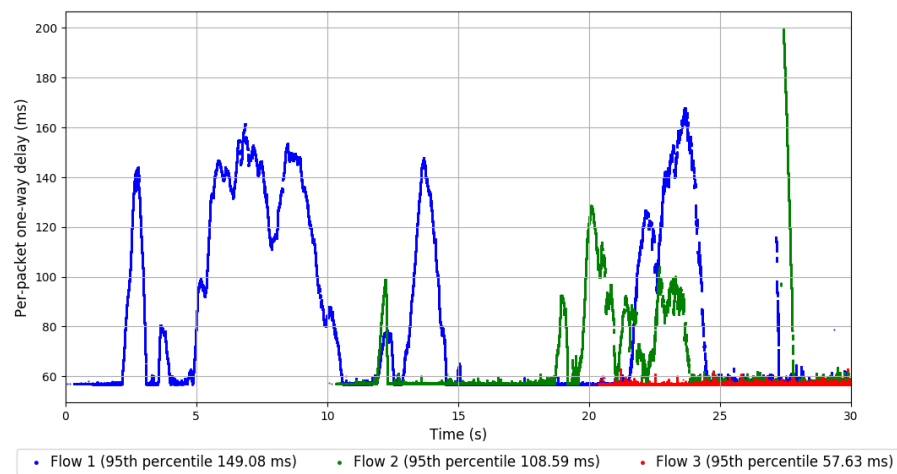
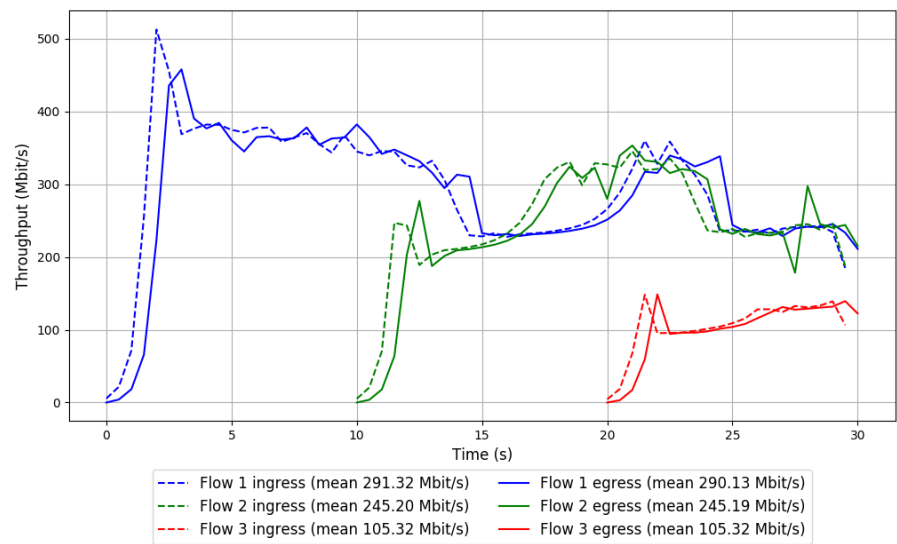


Run 4: Statistics of PCC-Expr

Start at: 2018-12-21 00:50:09
End at: 2018-12-21 00:50:39
Local clock offset: 0.044 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2018-12-21 03:49:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 487.93 Mbit/s
95th percentile per-packet one-way delay: 146.690 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 290.13 Mbit/s
95th percentile per-packet one-way delay: 149.078 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 245.19 Mbit/s
95th percentile per-packet one-way delay: 108.594 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 105.32 Mbit/s
95th percentile per-packet one-way delay: 57.635 ms
Loss rate: 0.01%

Run 4: Report of PCC-Expr — Data Link

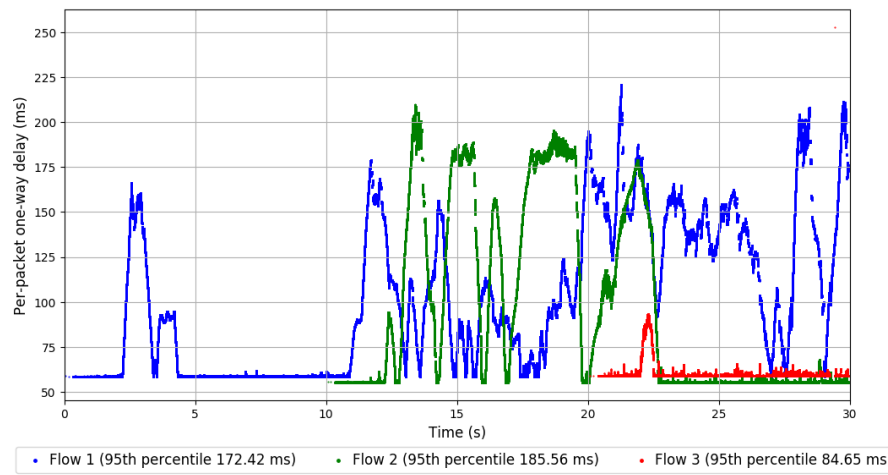
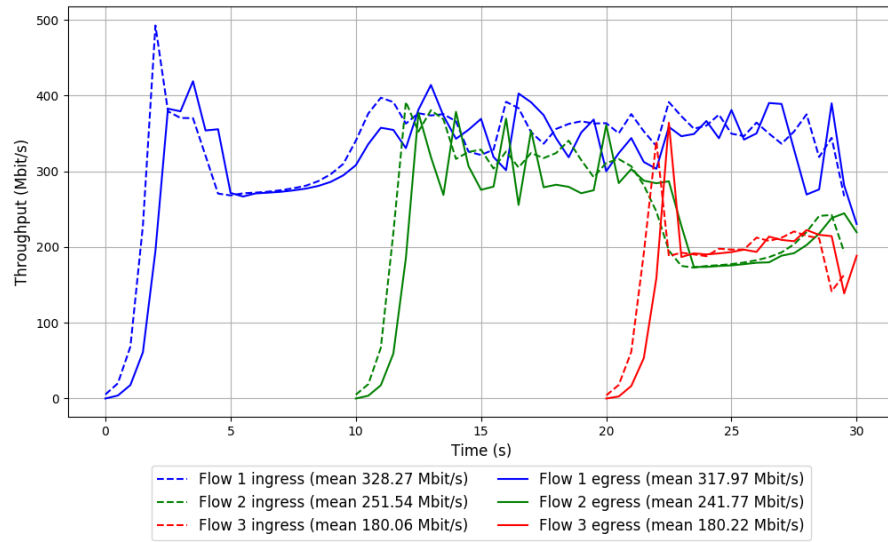


Run 5: Statistics of PCC-Expr

Start at: 2018-12-21 01:23:17
End at: 2018-12-21 01:23:47
Local clock offset: 1.488 ms
Remote clock offset: -0.337 ms

Below is generated by plot.py at 2018-12-21 03:57:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 538.19 Mbit/s
95th percentile per-packet one-way delay: 182.085 ms
Loss rate: 3.03%
-- Flow 1:
Average throughput: 317.97 Mbit/s
95th percentile per-packet one-way delay: 172.418 ms
Loss rate: 3.14%
-- Flow 2:
Average throughput: 241.77 Mbit/s
95th percentile per-packet one-way delay: 185.565 ms
Loss rate: 3.89%
-- Flow 3:
Average throughput: 180.22 Mbit/s
95th percentile per-packet one-way delay: 84.651 ms
Loss rate: 0.00%

Run 5: Report of PCC-Expr — Data Link

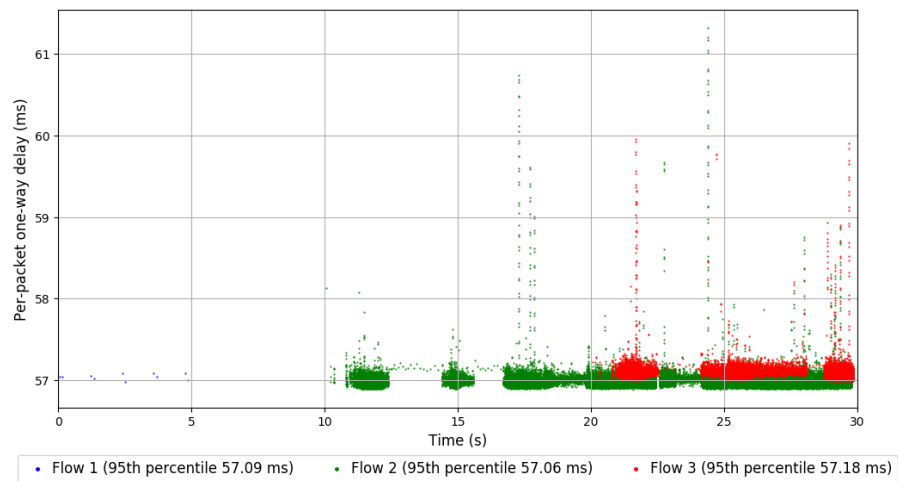
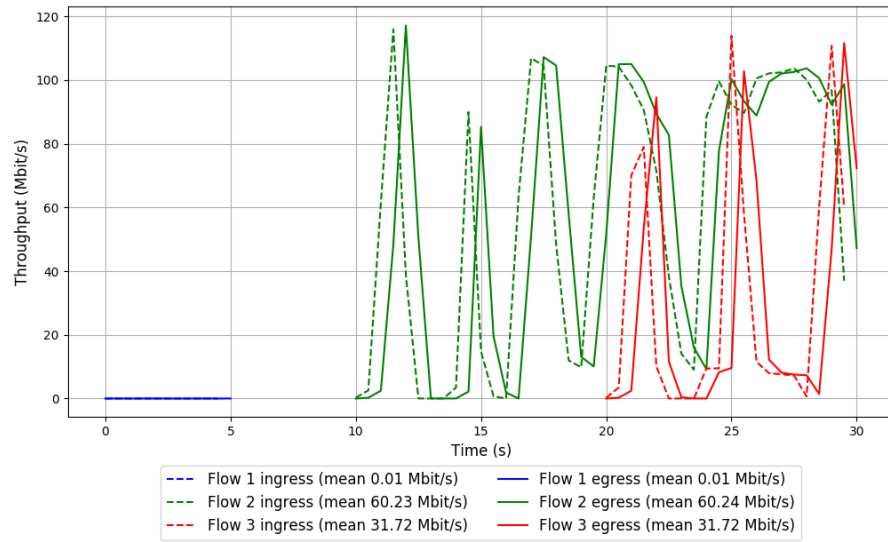


Run 1: Statistics of QUIC Cubic

Start at: 2018-12-20 22:54:50
End at: 2018-12-20 22:55:20
Local clock offset: -0.077 ms
Remote clock offset: -0.127 ms

Below is generated by plot.py at 2018-12-21 03:57:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.23 Mbit/s
95th percentile per-packet one-way delay: 57.120 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 57.089 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 60.24 Mbit/s
95th percentile per-packet one-way delay: 57.063 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 31.72 Mbit/s
95th percentile per-packet one-way delay: 57.179 ms
Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link

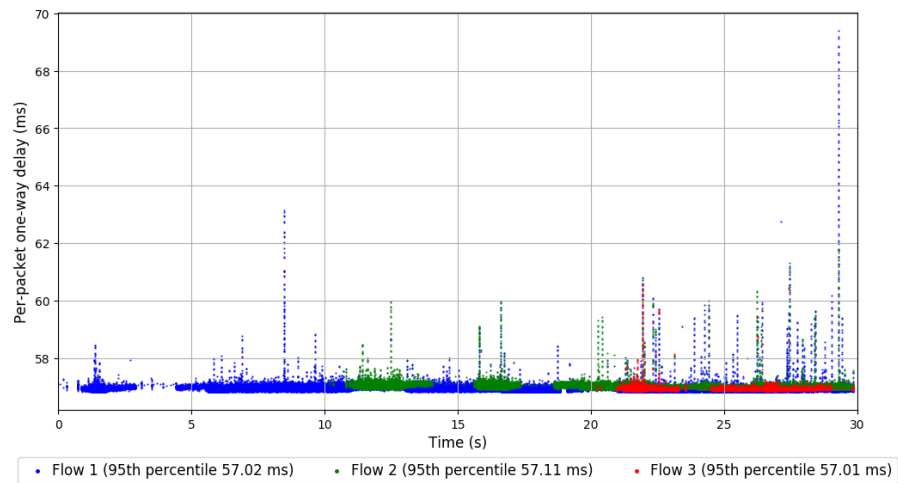
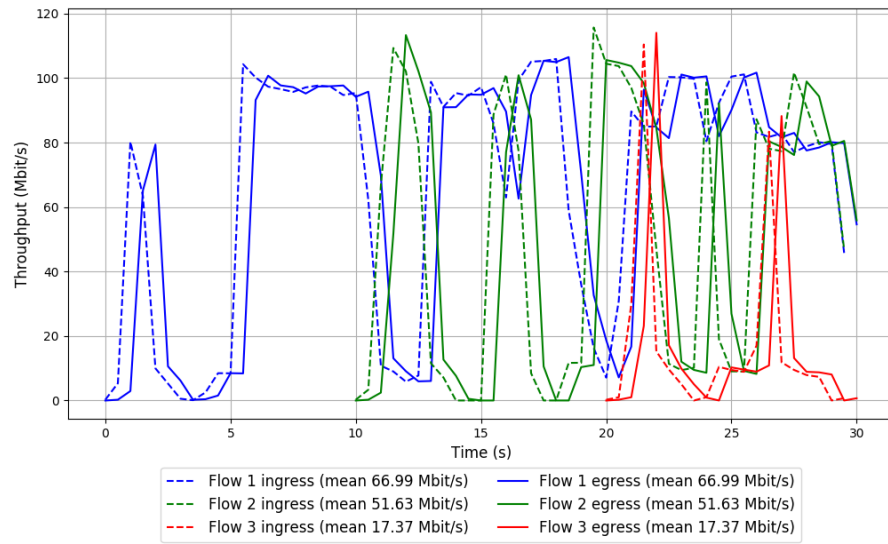


Run 2: Statistics of QUIC Cubic

Start at: 2018-12-20 23:29:51
End at: 2018-12-20 23:30:21
Local clock offset: -0.105 ms
Remote clock offset: -0.168 ms

Below is generated by plot.py at 2018-12-21 03:57:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 106.95 Mbit/s
95th percentile per-packet one-way delay: 57.068 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 66.99 Mbit/s
95th percentile per-packet one-way delay: 57.023 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 51.63 Mbit/s
95th percentile per-packet one-way delay: 57.110 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 17.37 Mbit/s
95th percentile per-packet one-way delay: 57.011 ms
Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link

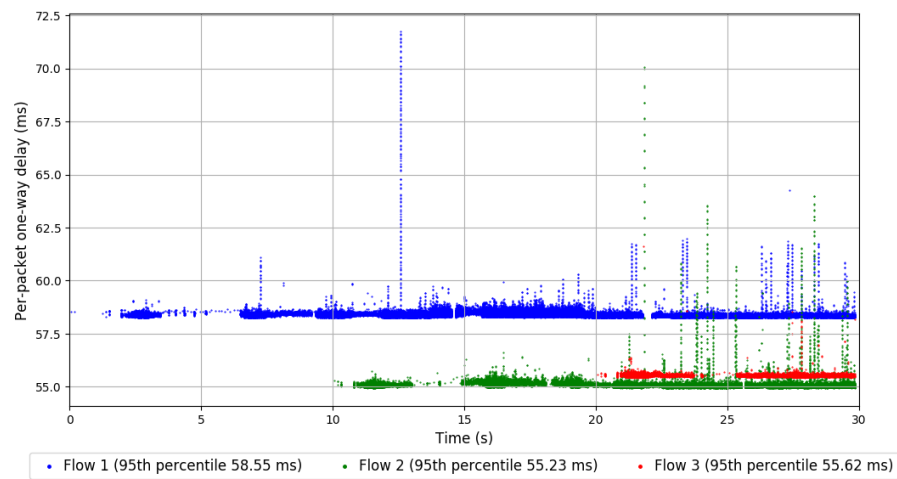
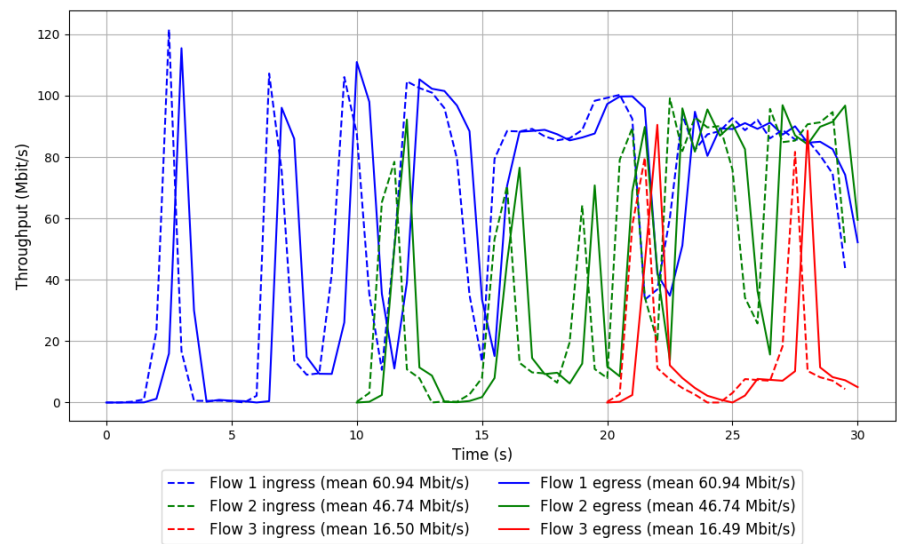


Run 3: Statistics of QUIC Cubic

Start at: 2018-12-21 00:03:13
End at: 2018-12-21 00:03:43
Local clock offset: 1.504 ms
Remote clock offset: -0.396 ms

Below is generated by plot.py at 2018-12-21 03:57:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.37 Mbit/s
95th percentile per-packet one-way delay: 58.512 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 60.94 Mbit/s
95th percentile per-packet one-way delay: 58.551 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 46.74 Mbit/s
95th percentile per-packet one-way delay: 55.229 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 16.49 Mbit/s
95th percentile per-packet one-way delay: 55.623 ms
Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link

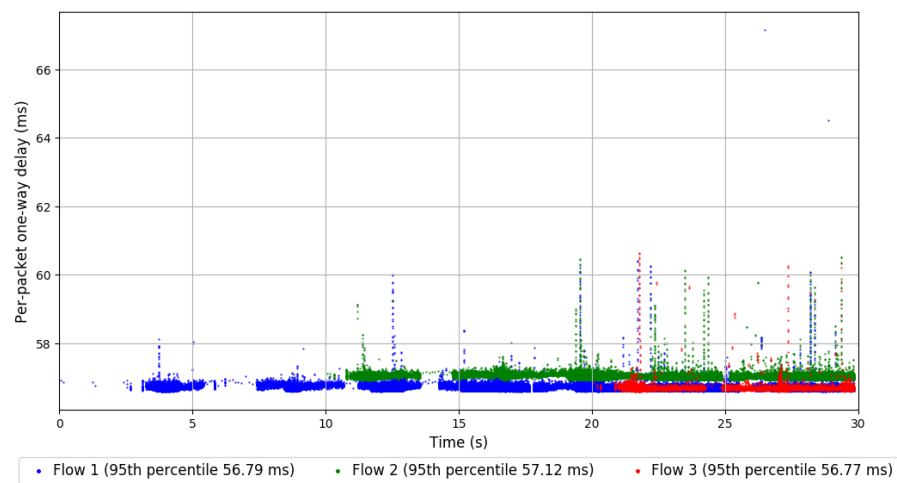
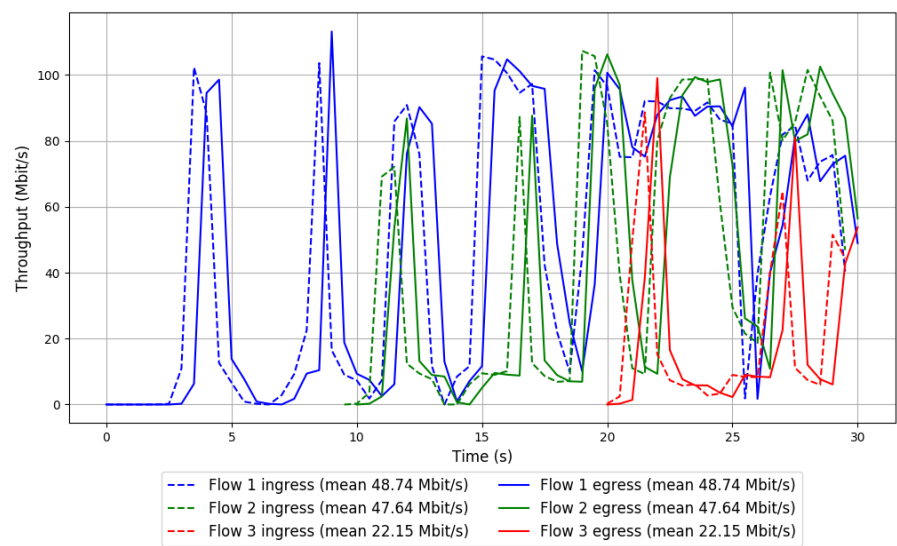


Run 4: Statistics of QUIC Cubic

Start at: 2018-12-21 00:36:48
End at: 2018-12-21 00:37:18
Local clock offset: -0.004 ms
Remote clock offset: -0.366 ms

Below is generated by plot.py at 2018-12-21 03:57:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.64 Mbit/s
95th percentile per-packet one-way delay: 57.073 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.74 Mbit/s
95th percentile per-packet one-way delay: 56.793 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 47.64 Mbit/s
95th percentile per-packet one-way delay: 57.124 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 22.15 Mbit/s
95th percentile per-packet one-way delay: 56.775 ms
Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-12-21 01:10:36

End at: 2018-12-21 01:11:06

Local clock offset: -0.093 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-12-21 03:57:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.75 Mbit/s

95th percentile per-packet one-way delay: 60.727 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 52.91 Mbit/s

95th percentile per-packet one-way delay: 60.746 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 30.93 Mbit/s

95th percentile per-packet one-way delay: 57.395 ms

Loss rate: 0.00%

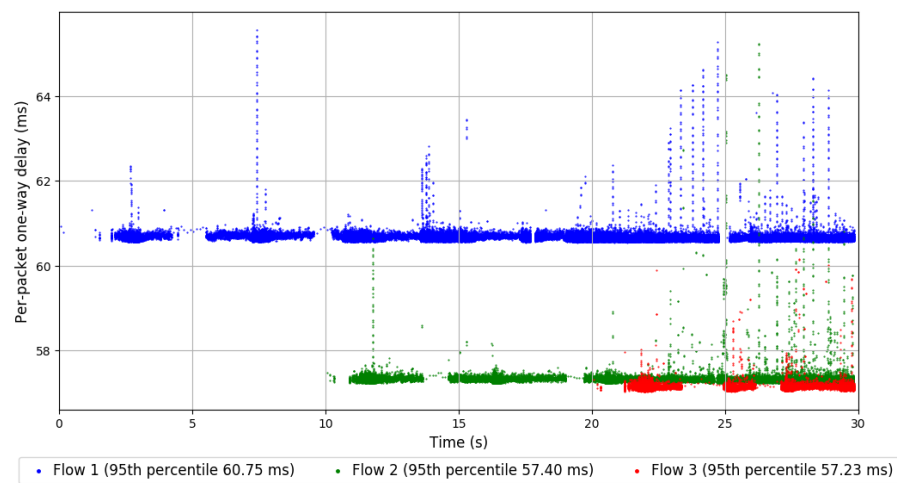
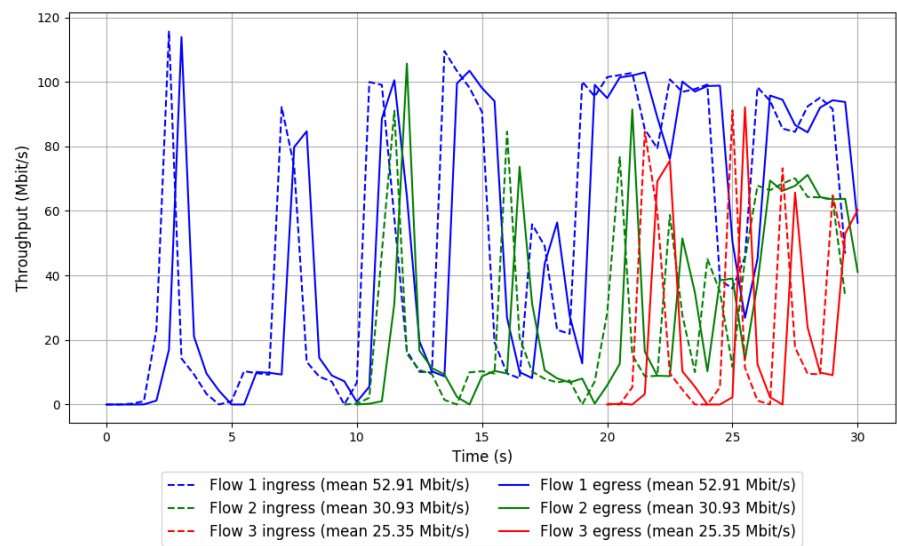
-- Flow 3:

Average throughput: 25.35 Mbit/s

95th percentile per-packet one-way delay: 57.225 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

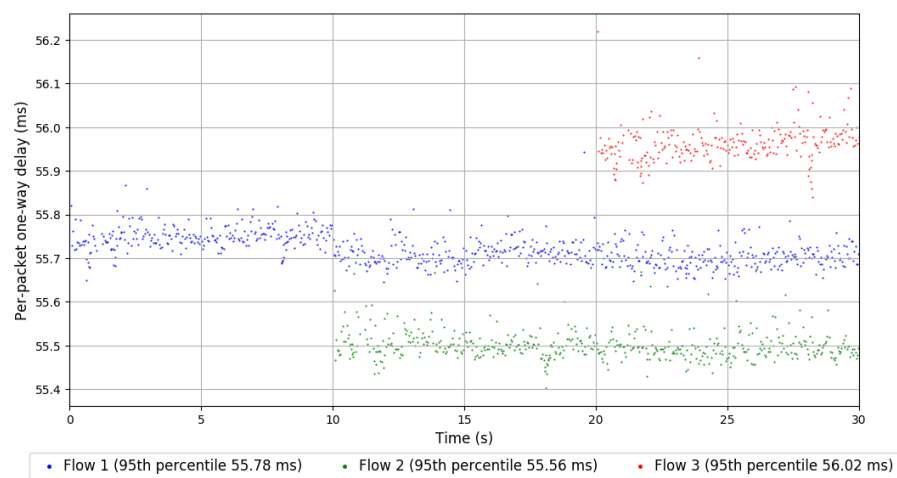
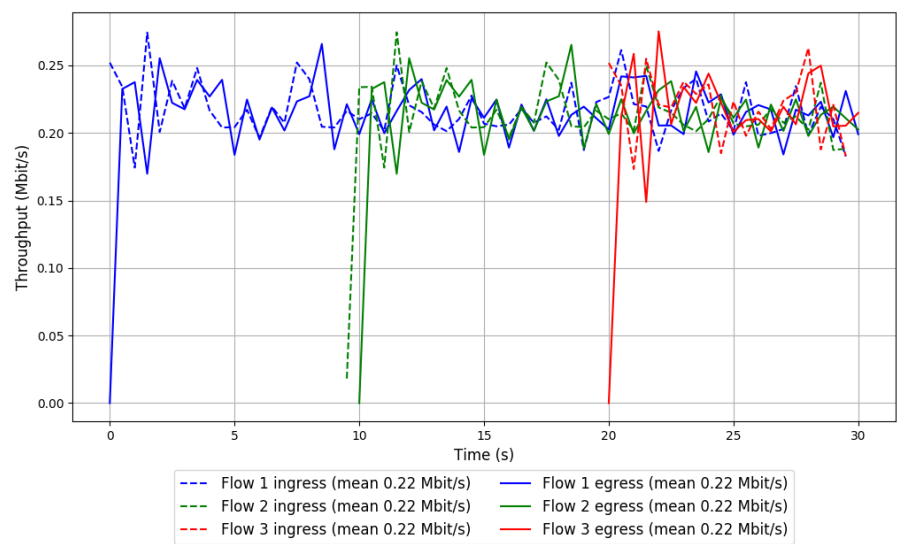



```
Run 1: Statistics of SReAM

Start at: 2018-12-20 23:04:54
End at: 2018-12-20 23:05:24
Local clock offset: 1.18 ms
Remote clock offset: -0.358 ms

# Below is generated by plot.py at 2018-12-21 03:57:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 55.977 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 55.779 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 55.561 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.025 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

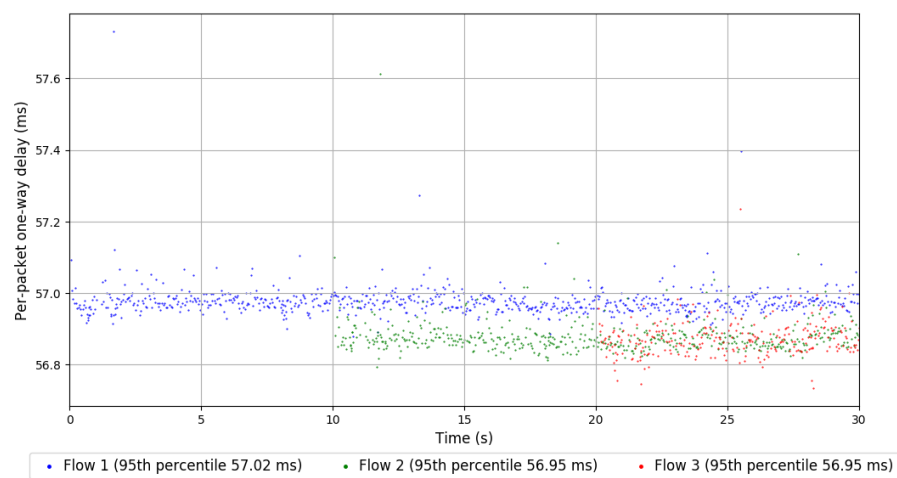
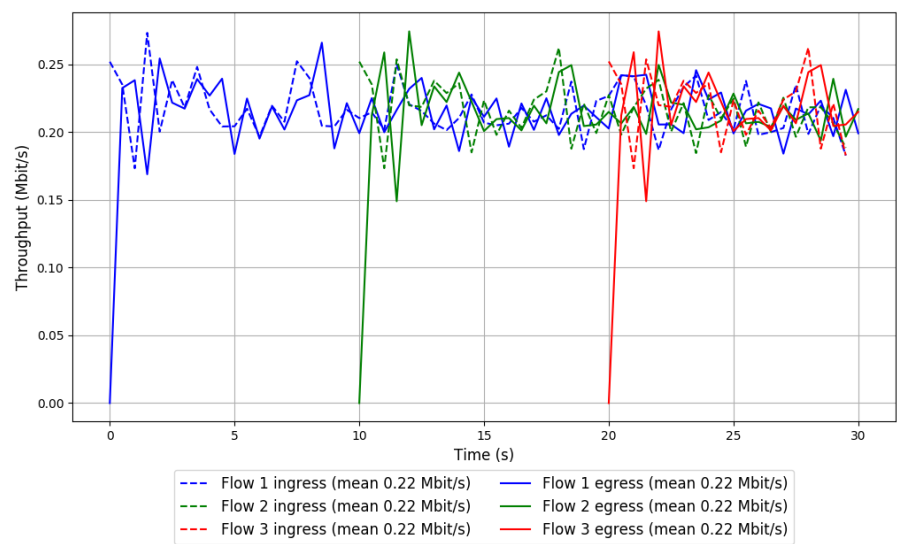


Run 2: Statistics of SReAM

Start at: 2018-12-20 23:39:32
End at: 2018-12-20 23:40:02
Local clock offset: 0.113 ms
Remote clock offset: -0.182 ms

Below is generated by plot.py at 2018-12-21 03:57:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 57.012 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.024 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.947 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.953 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

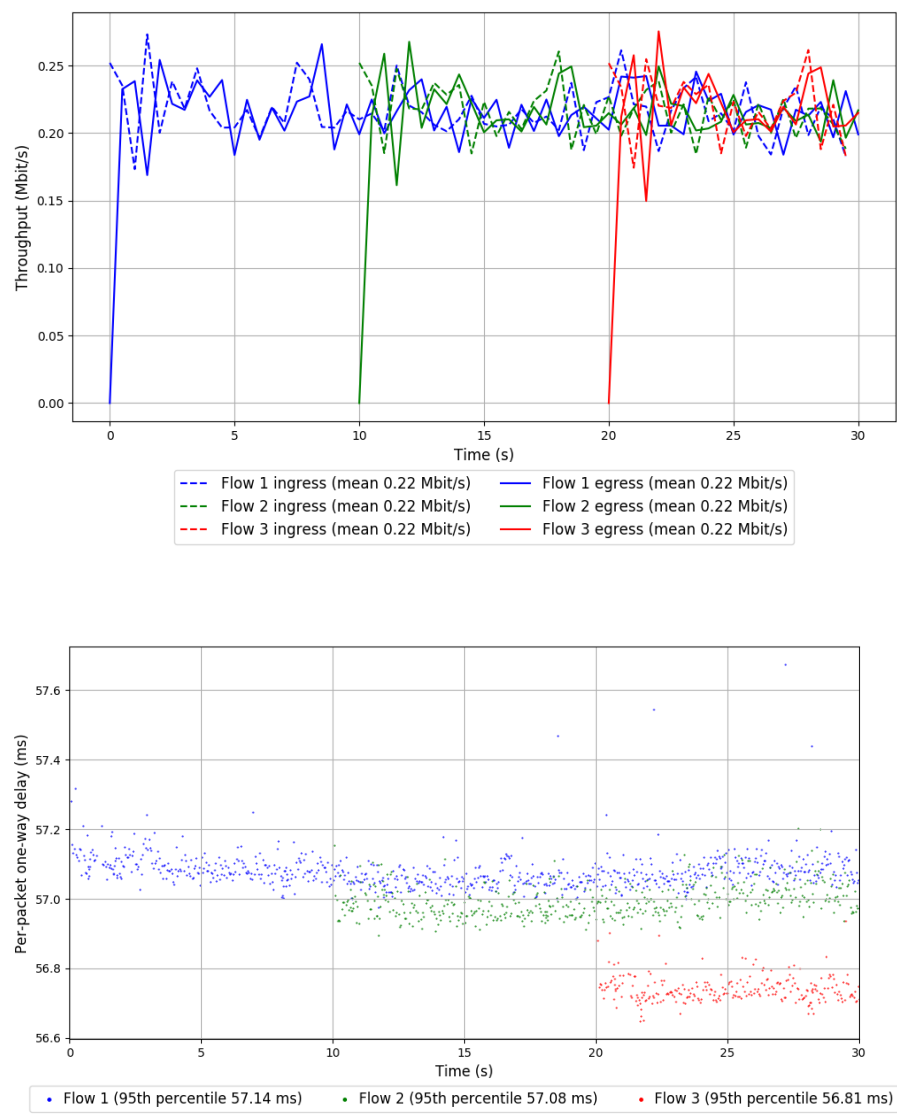


Run 3: Statistics of SReAM

Start at: 2018-12-21 00:12:43
End at: 2018-12-21 00:13:13
Local clock offset: -0.149 ms
Remote clock offset: -0.403 ms

Below is generated by plot.py at 2018-12-21 03:57:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 57.126 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.144 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.080 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.811 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-12-21 00:46:38

End at: 2018-12-21 00:47:08

Local clock offset: -0.072 ms

Remote clock offset: 0.019 ms

Below is generated by plot.py at 2018-12-21 03:57:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 60.914 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 60.734 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 57.325 ms

Loss rate: 0.00%

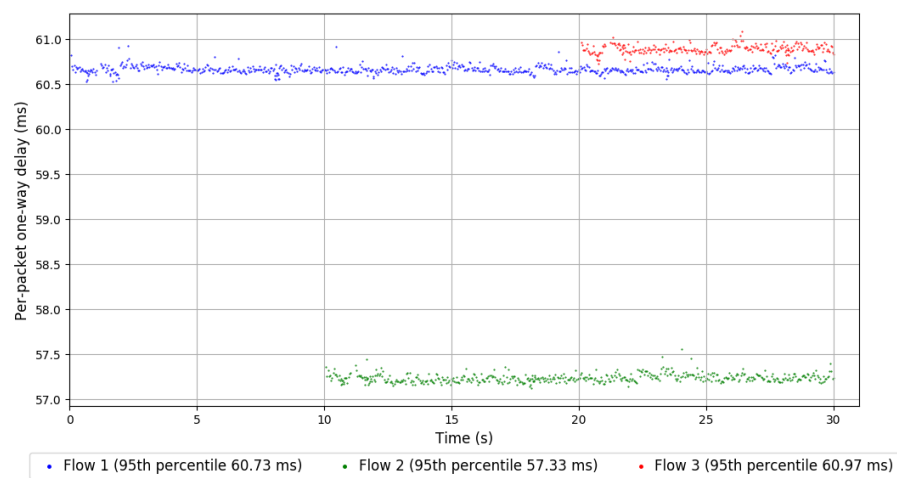
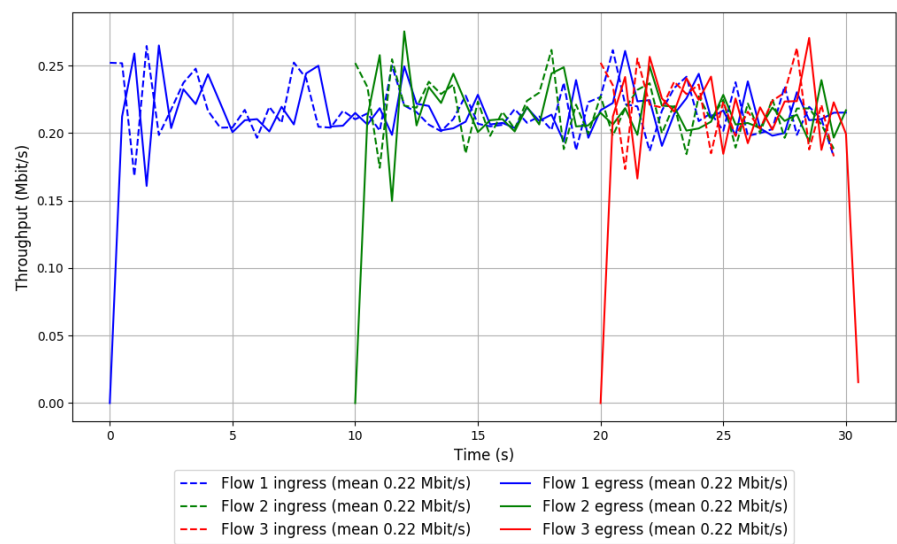
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 60.969 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

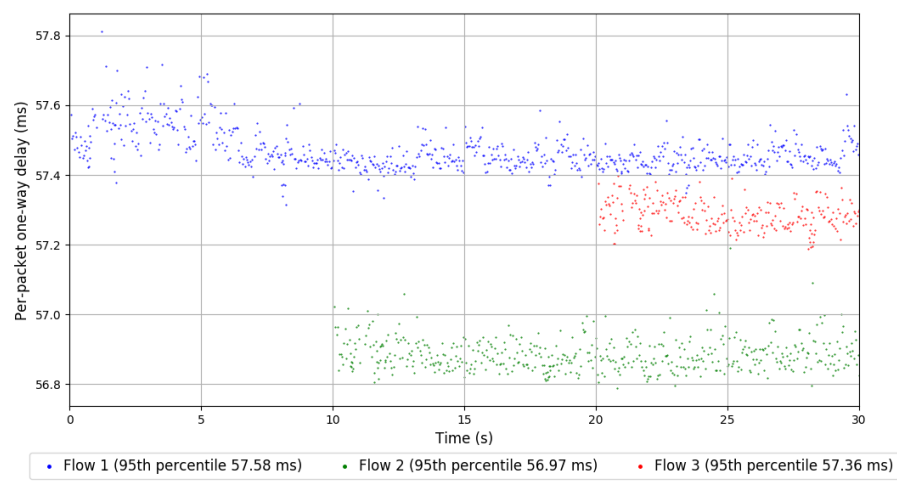
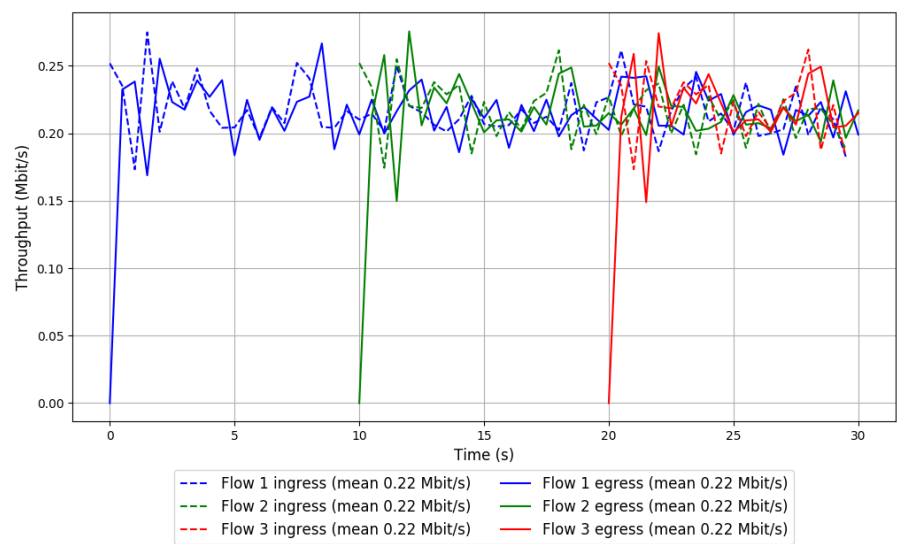


Run 5: Statistics of SReAM

Start at: 2018-12-21 01:19:57
End at: 2018-12-21 01:20:27
Local clock offset: -0.03 ms
Remote clock offset: -0.097 ms

Below is generated by plot.py at 2018-12-21 03:57:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 57.547 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.584 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.971 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.357 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

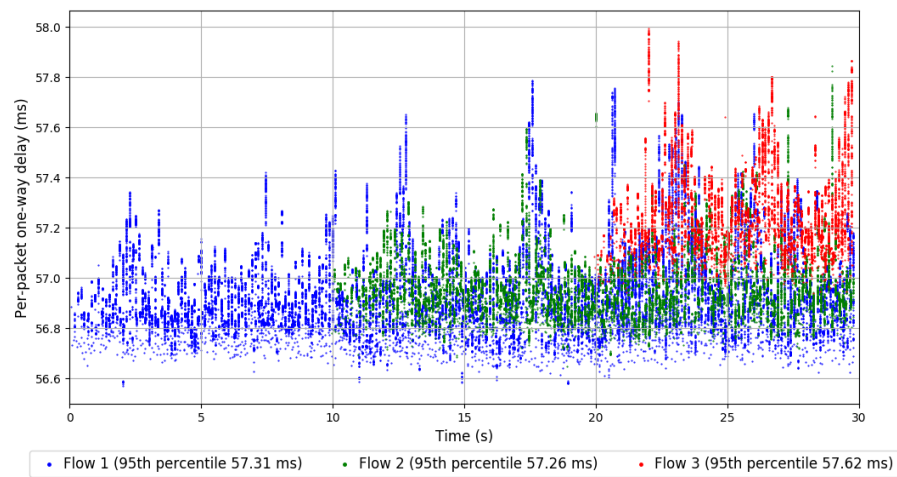
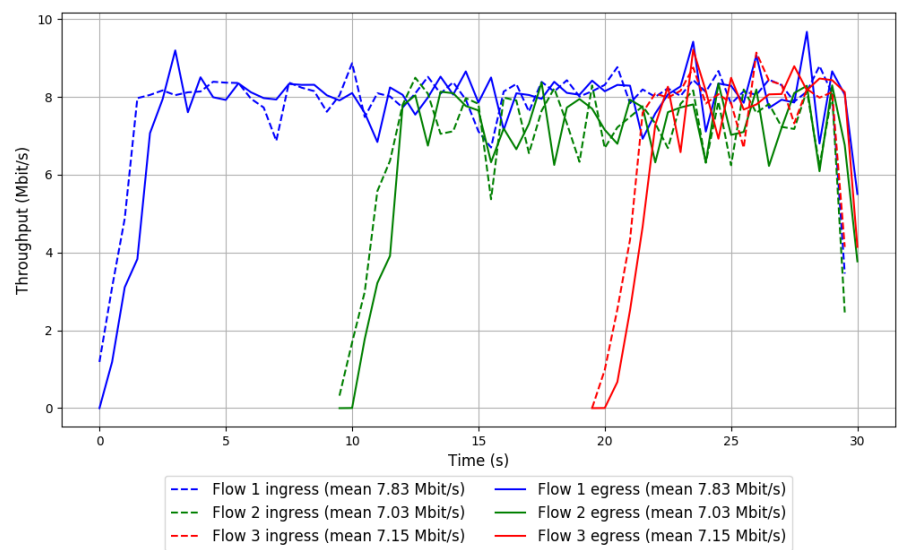


Run 1: Statistics of Sprout

Start at: 2018-12-20 23:03:40
End at: 2018-12-20 23:04:10
Local clock offset: 0.192 ms
Remote clock offset: -0.053 ms

Below is generated by plot.py at 2018-12-21 03:57:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.89 Mbit/s
95th percentile per-packet one-way delay: 57.393 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.83 Mbit/s
95th percentile per-packet one-way delay: 57.310 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.03 Mbit/s
95th percentile per-packet one-way delay: 57.264 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.15 Mbit/s
95th percentile per-packet one-way delay: 57.618 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

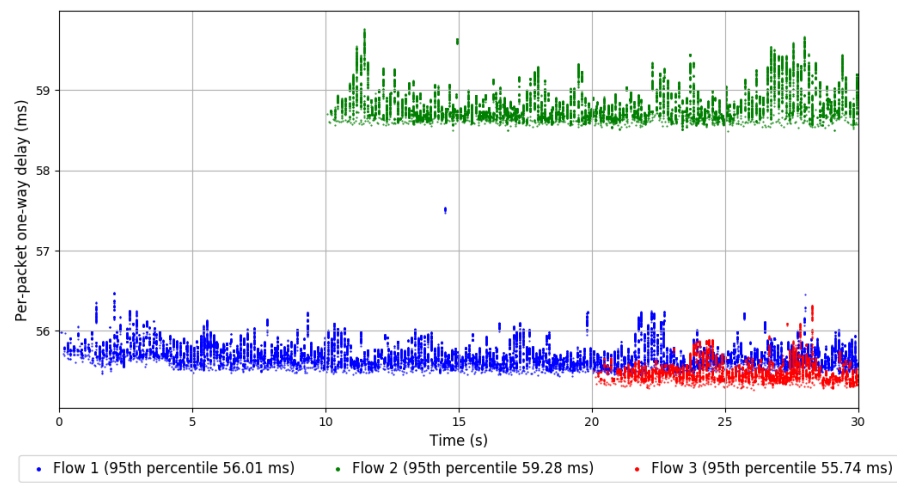
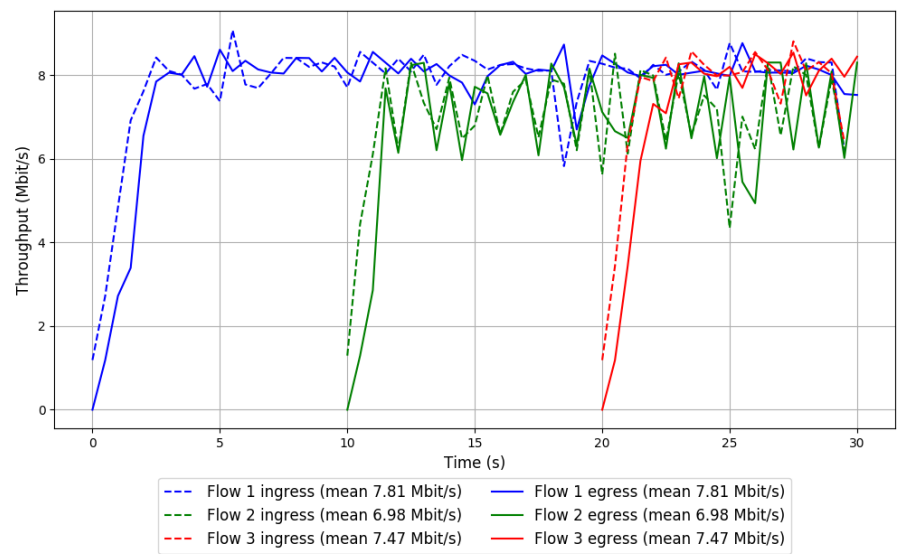


Run 2: Statistics of Sprout

Start at: 2018-12-20 23:38:19
End at: 2018-12-20 23:38:49
Local clock offset: 1.568 ms
Remote clock offset: -0.152 ms

Below is generated by plot.py at 2018-12-21 03:57:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.91 Mbit/s
95th percentile per-packet one-way delay: 59.060 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 56.005 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.98 Mbit/s
95th percentile per-packet one-way delay: 59.284 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.47 Mbit/s
95th percentile per-packet one-way delay: 55.736 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

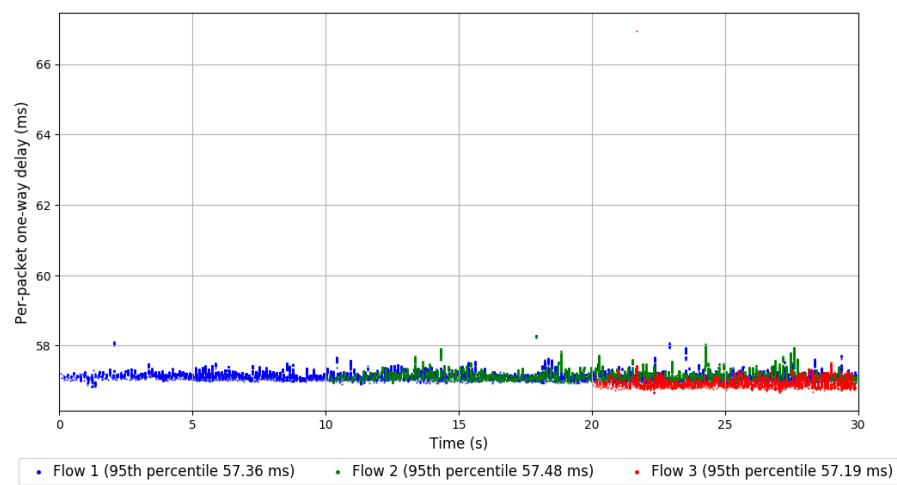
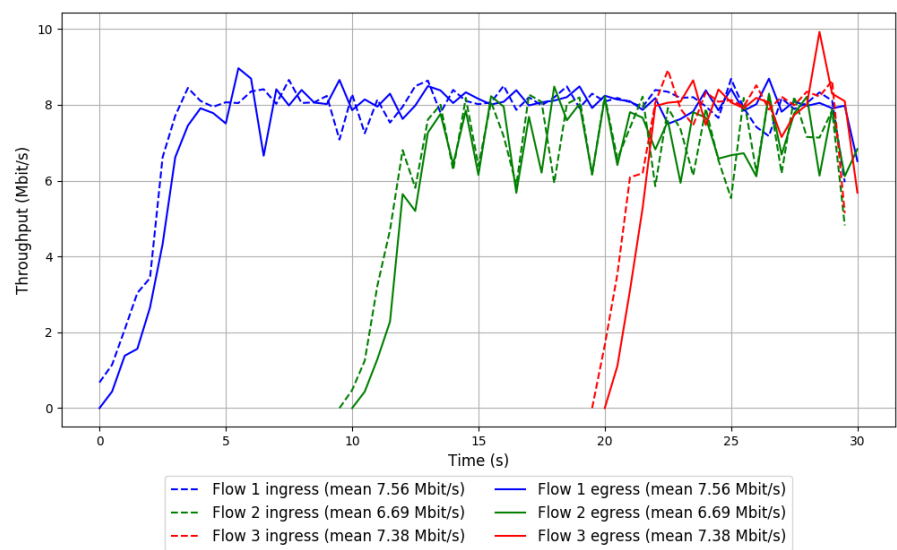


Run 3: Statistics of Sprout

Start at: 2018-12-21 00:11:29
End at: 2018-12-21 00:11:59
Local clock offset: -0.067 ms
Remote clock offset: -0.389 ms

Below is generated by plot.py at 2018-12-21 03:57:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.45 Mbit/s
95th percentile per-packet one-way delay: 57.377 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.56 Mbit/s
95th percentile per-packet one-way delay: 57.364 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.69 Mbit/s
95th percentile per-packet one-way delay: 57.482 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.38 Mbit/s
95th percentile per-packet one-way delay: 57.189 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

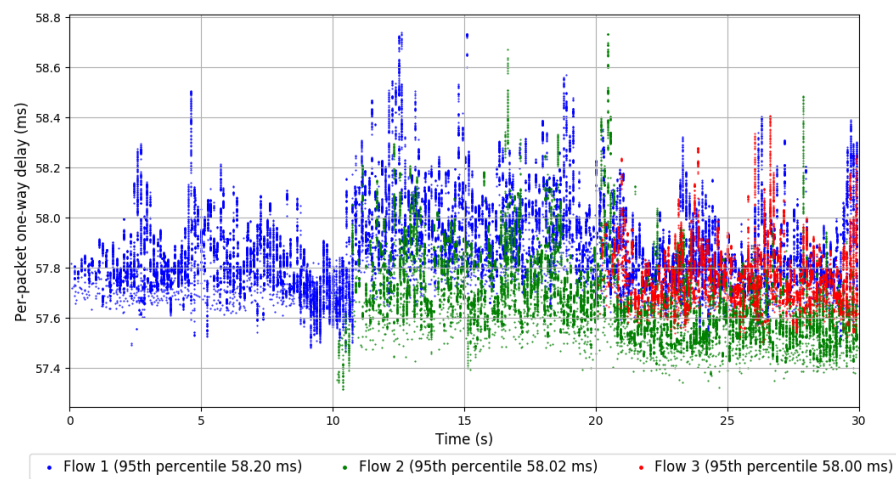
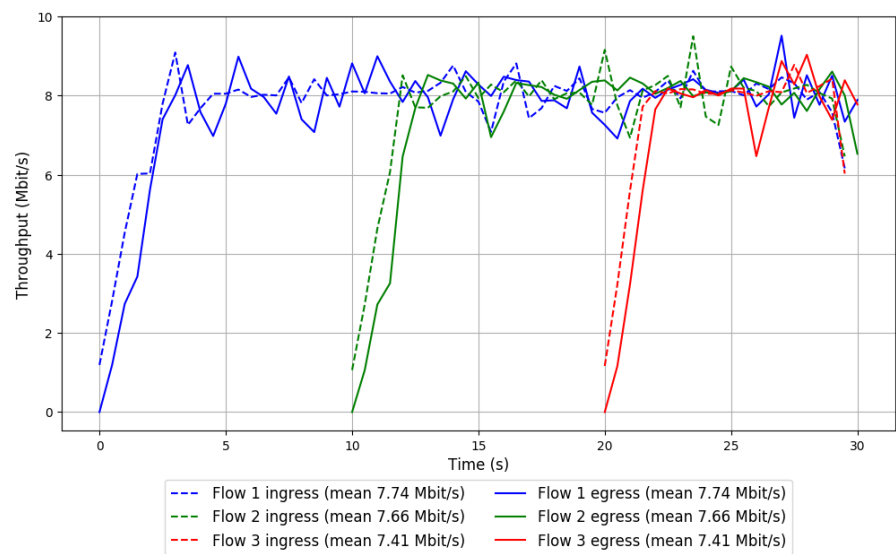


Run 4: Statistics of Sprout

Start at: 2018-12-21 00:45:24
End at: 2018-12-21 00:45:54
Local clock offset: -0.342 ms
Remote clock offset: 0.146 ms

```
# Below is generated by plot.py at 2018-12-21 03:57:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.28 Mbit/s
95th percentile per-packet one-way delay: 58.144 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.74 Mbit/s
95th percentile per-packet one-way delay: 58.197 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.66 Mbit/s
95th percentile per-packet one-way delay: 58.021 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.41 Mbit/s
95th percentile per-packet one-way delay: 57.998 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

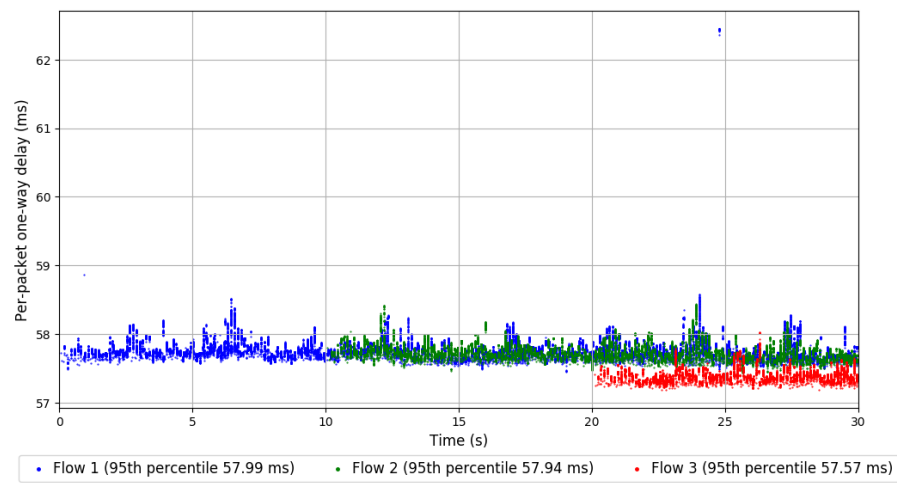
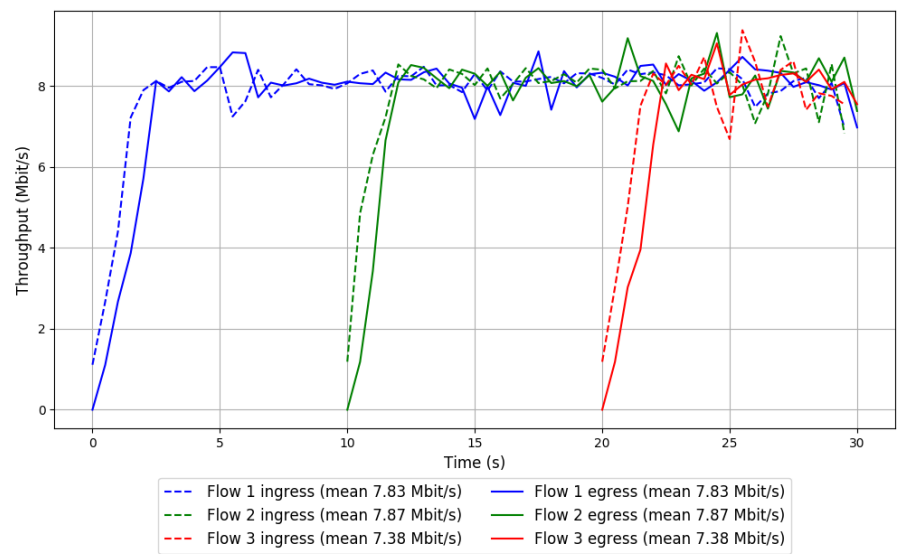


Run 5: Statistics of Sprout

Start at: 2018-12-21 01:18:43
End at: 2018-12-21 01:19:13
Local clock offset: -0.048 ms
Remote clock offset: 0.042 ms

```
# Below is generated by plot.py at 2018-12-21 03:57:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.50 Mbit/s
95th percentile per-packet one-way delay: 57.952 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.83 Mbit/s
95th percentile per-packet one-way delay: 57.995 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.87 Mbit/s
95th percentile per-packet one-way delay: 57.941 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.38 Mbit/s
95th percentile per-packet one-way delay: 57.568 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

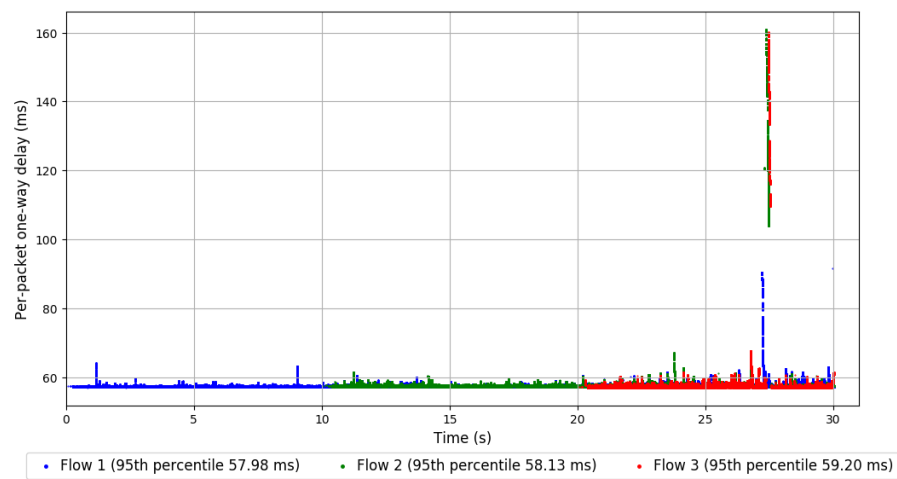
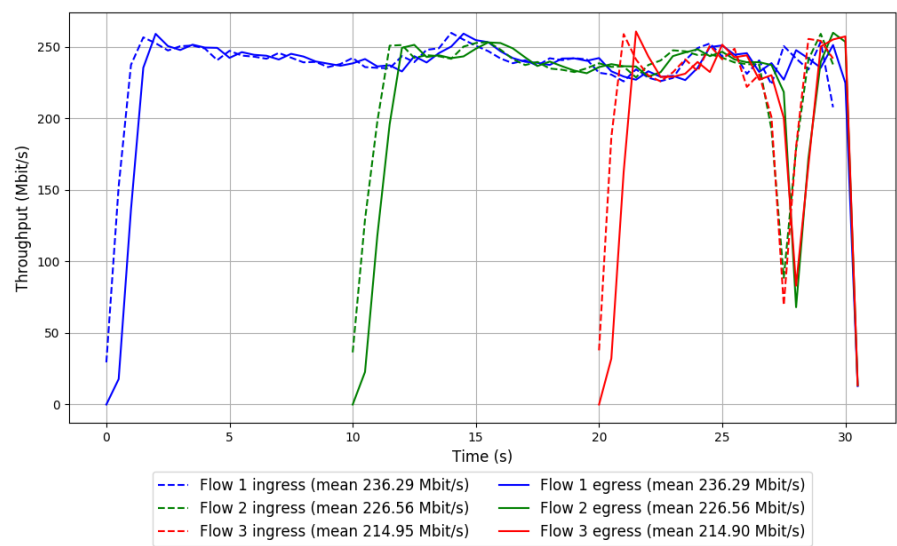


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-12-20 23:15:35
End at: 2018-12-20 23:16:05
Local clock offset: -0.056 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2018-12-21 04:01:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 458.64 Mbit/s
95th percentile per-packet one-way delay: 58.192 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 236.29 Mbit/s
95th percentile per-packet one-way delay: 57.980 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 226.56 Mbit/s
95th percentile per-packet one-way delay: 58.133 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 214.90 Mbit/s
95th percentile per-packet one-way delay: 59.200 ms
Loss rate: 0.03%
```

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

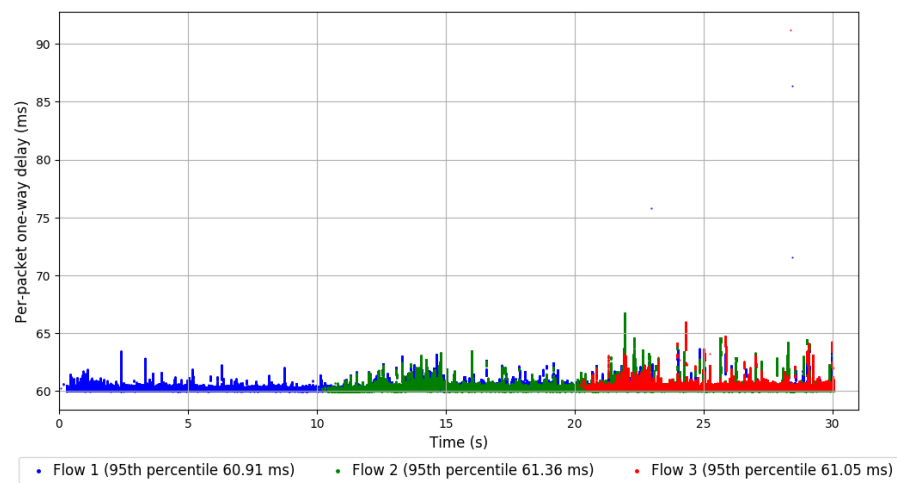
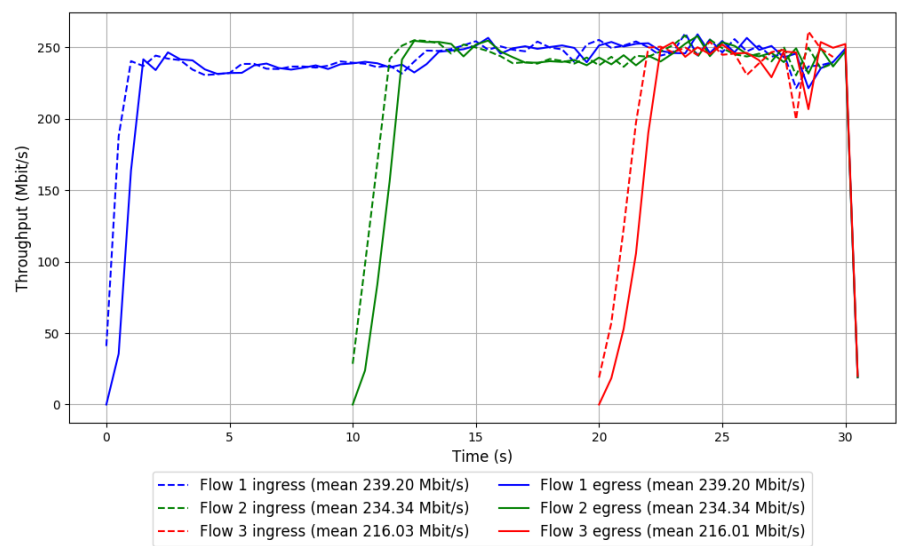


Run 2: Statistics of TaoVA-100x

Start at: 2018-12-20 23:49:45
End at: 2018-12-20 23:50:15
Local clock offset: -0.095 ms
Remote clock offset: -0.272 ms

Below is generated by plot.py at 2018-12-21 04:01:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 466.98 Mbit/s
95th percentile per-packet one-way delay: 61.072 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 239.20 Mbit/s
95th percentile per-packet one-way delay: 60.909 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 234.34 Mbit/s
95th percentile per-packet one-way delay: 61.357 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 216.01 Mbit/s
95th percentile per-packet one-way delay: 61.045 ms
Loss rate: 0.04%

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

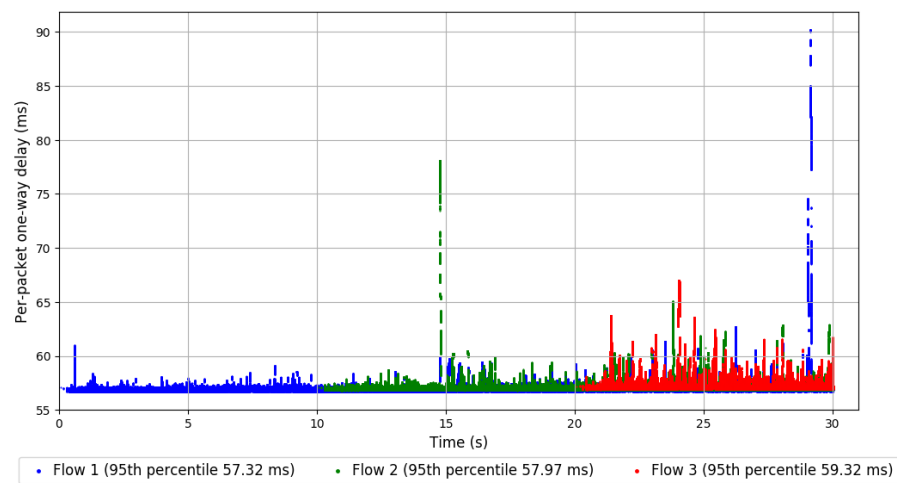
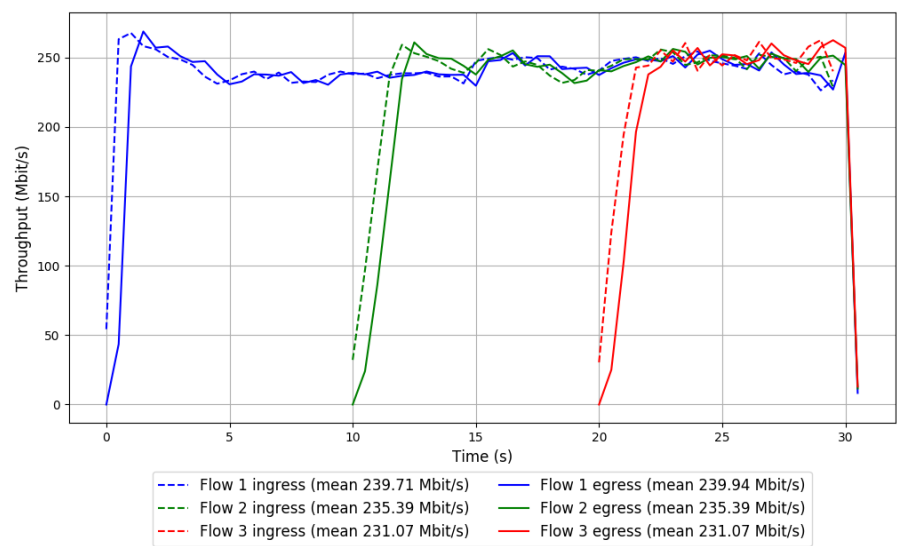


Run 3: Statistics of TaoVA-100x

Start at: 2018-12-21 00:23:14
End at: 2018-12-21 00:23:44
Local clock offset: -0.123 ms
Remote clock offset: -0.308 ms

Below is generated by plot.py at 2018-12-21 04:01:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 473.48 Mbit/s
95th percentile per-packet one-way delay: 58.024 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 239.94 Mbit/s
95th percentile per-packet one-way delay: 57.321 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 235.39 Mbit/s
95th percentile per-packet one-way delay: 57.965 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 231.07 Mbit/s
95th percentile per-packet one-way delay: 59.321 ms
Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-12-21 00:57:14

End at: 2018-12-21 00:57:44

Local clock offset: -1.848 ms

Remote clock offset: 0.081 ms

Below is generated by plot.py at 2018-12-21 04:01:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 453.28 Mbit/s

95th percentile per-packet one-way delay: 59.724 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 236.96 Mbit/s

95th percentile per-packet one-way delay: 59.538 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 229.93 Mbit/s

95th percentile per-packet one-way delay: 60.229 ms

Loss rate: 0.00%

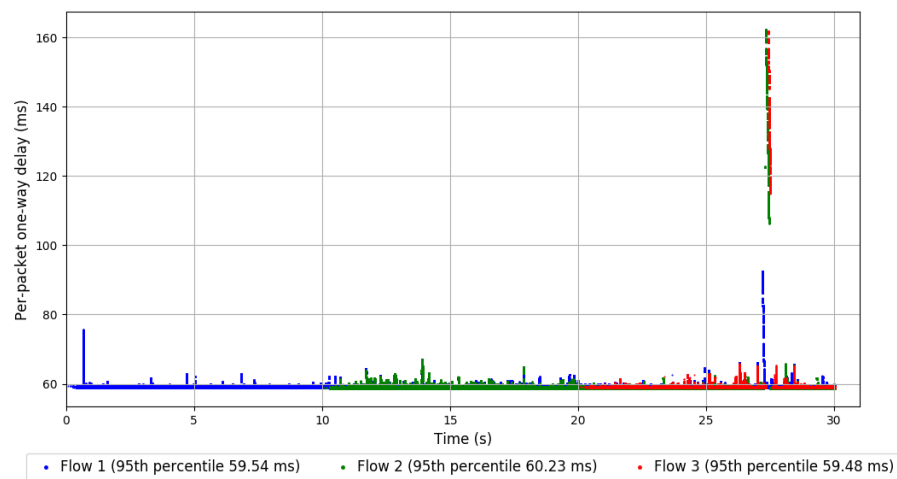
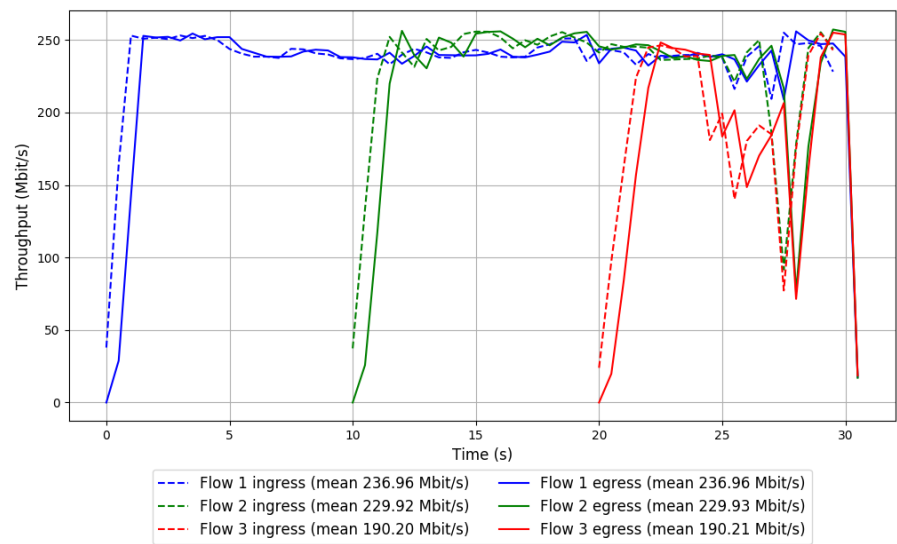
-- Flow 3:

Average throughput: 190.21 Mbit/s

95th percentile per-packet one-way delay: 59.476 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-12-21 01:30:26

End at: 2018-12-21 01:30:56

Local clock offset: -0.115 ms

Remote clock offset: 0.041 ms

Below is generated by plot.py at 2018-12-21 04:01:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 463.54 Mbit/s

95th percentile per-packet one-way delay: 60.869 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 237.74 Mbit/s

95th percentile per-packet one-way delay: 60.925 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 226.89 Mbit/s

95th percentile per-packet one-way delay: 60.132 ms

Loss rate: 0.00%

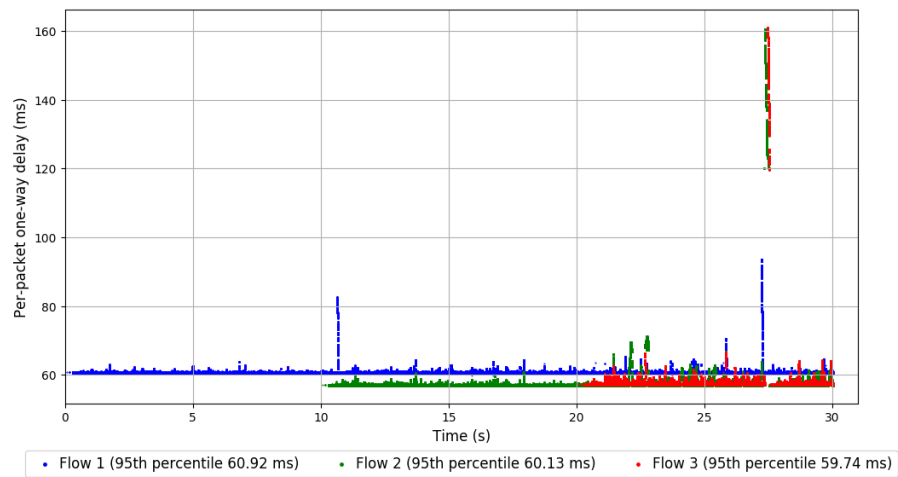
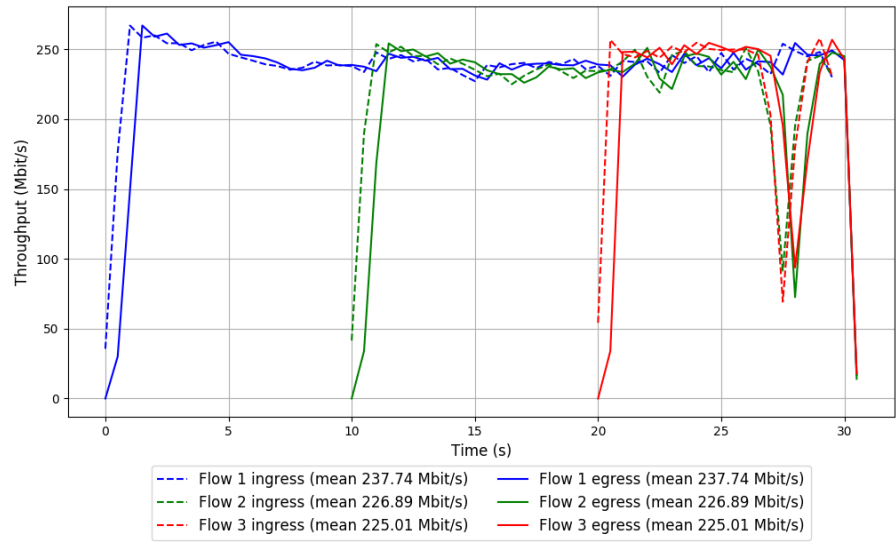
-- Flow 3:

Average throughput: 225.01 Mbit/s

95th percentile per-packet one-way delay: 59.745 ms

Loss rate: 0.00%

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

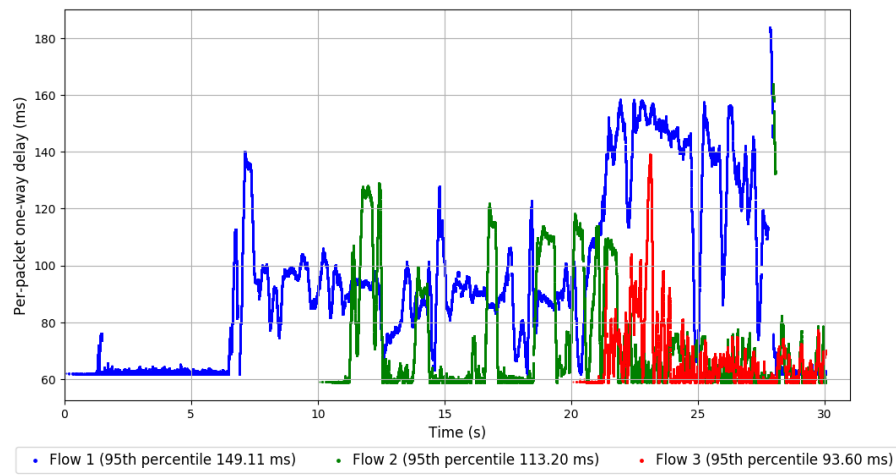
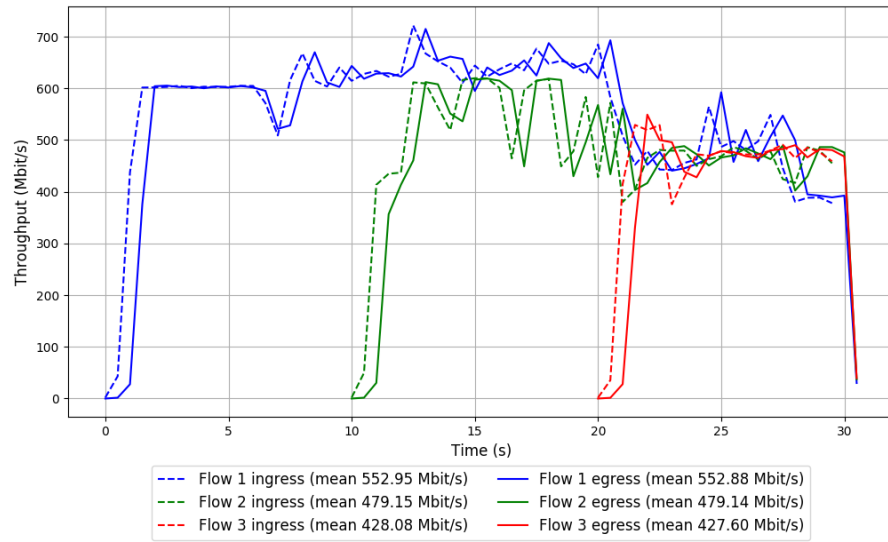


Run 1: Statistics of TCP Vegas

Start at: 2018-12-20 23:01:24
End at: 2018-12-20 23:01:54
Local clock offset: -1.597 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-12-21 04:04:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 1014.17 Mbit/s
95th percentile per-packet one-way delay: 142.882 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 552.88 Mbit/s
95th percentile per-packet one-way delay: 149.114 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 479.14 Mbit/s
95th percentile per-packet one-way delay: 113.196 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 427.60 Mbit/s
95th percentile per-packet one-way delay: 93.598 ms
Loss rate: 0.10%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-12-20 23:36:18

End at: 2018-12-20 23:36:48

Local clock offset: -0.169 ms

Remote clock offset: 0.056 ms

Below is generated by plot.py at 2018-12-21 04:07:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 950.24 Mbit/s

95th percentile per-packet one-way delay: 94.016 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 486.30 Mbit/s

95th percentile per-packet one-way delay: 63.876 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 469.16 Mbit/s

95th percentile per-packet one-way delay: 77.189 ms

Loss rate: 0.01%

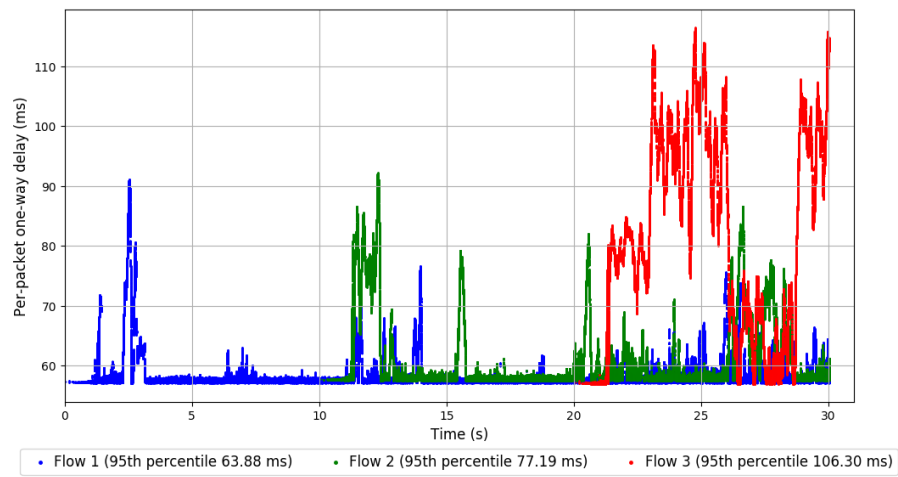
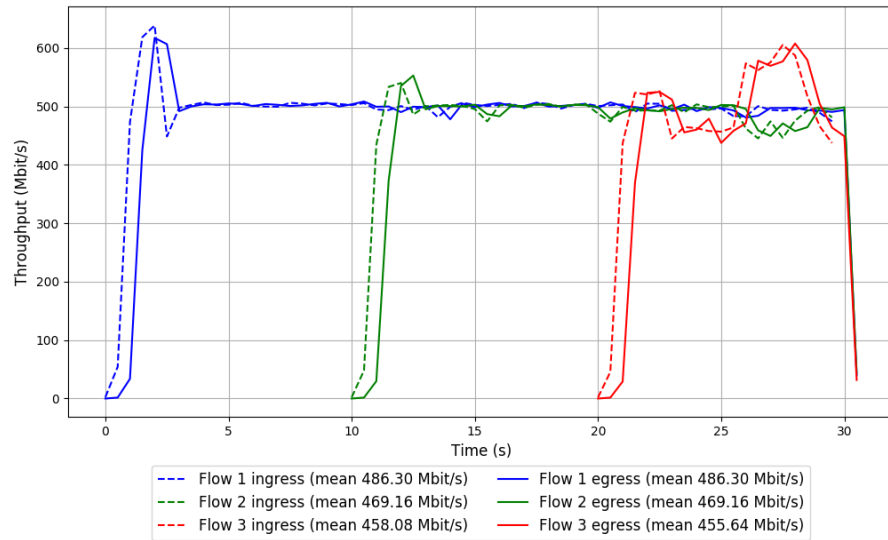
-- Flow 3:

Average throughput: 455.64 Mbit/s

95th percentile per-packet one-way delay: 106.296 ms

Loss rate: 0.53%

Run 2: Report of TCP Vegas — Data Link

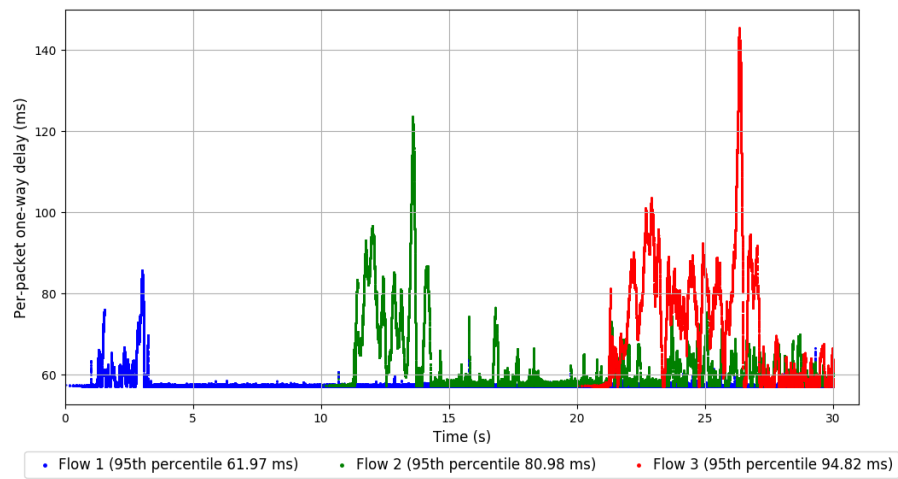
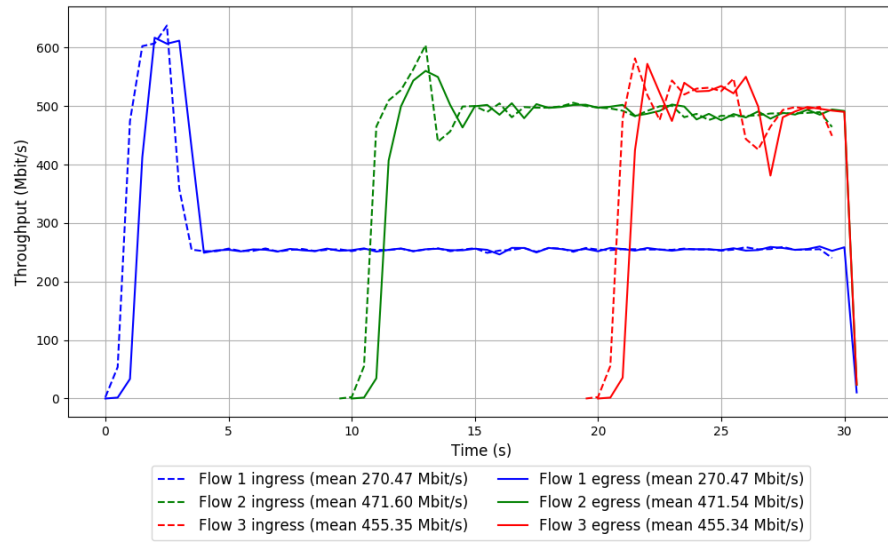


Run 3: Statistics of TCP Vegas

Start at: 2018-12-21 00:09:38
End at: 2018-12-21 00:10:08
Local clock offset: -0.379 ms
Remote clock offset: -0.306 ms

Below is generated by plot.py at 2018-12-21 04:12:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 736.23 Mbit/s
95th percentile per-packet one-way delay: 85.038 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 270.47 Mbit/s
95th percentile per-packet one-way delay: 61.971 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 471.54 Mbit/s
95th percentile per-packet one-way delay: 80.980 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 455.34 Mbit/s
95th percentile per-packet one-way delay: 94.823 ms
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link

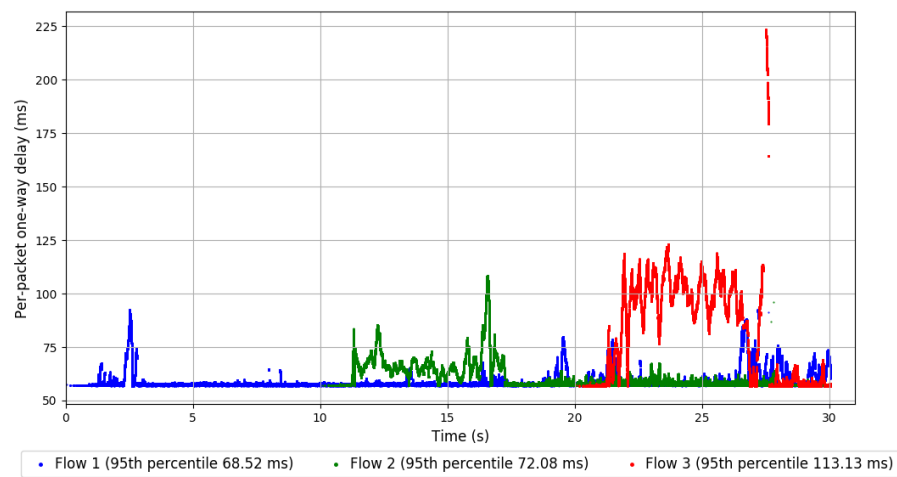
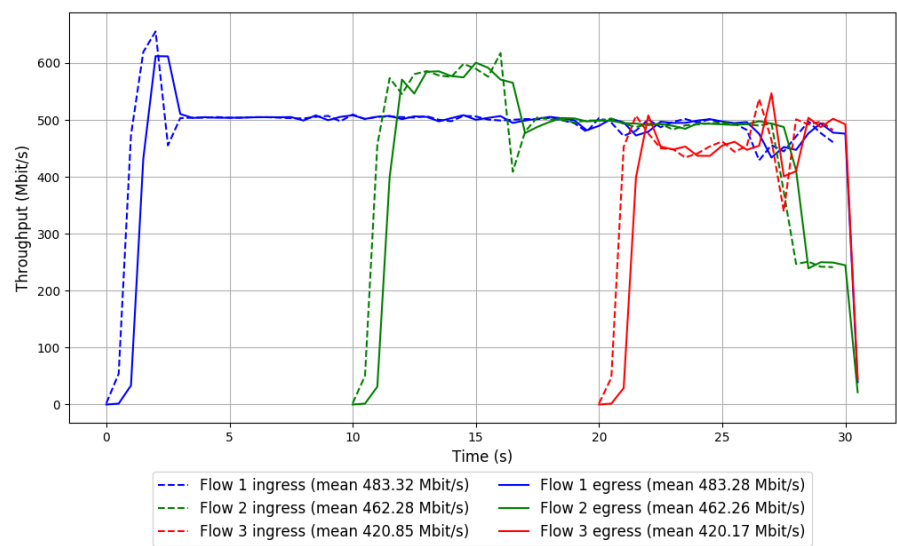


Run 4: Statistics of TCP Vegas

Start at: 2018-12-21 00:43:21
End at: 2018-12-21 00:43:51
Local clock offset: -0.045 ms
Remote clock offset: -0.167 ms

Below is generated by plot.py at 2018-12-21 04:17:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 930.84 Mbit/s
95th percentile per-packet one-way delay: 98.990 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 483.28 Mbit/s
95th percentile per-packet one-way delay: 68.519 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 462.26 Mbit/s
95th percentile per-packet one-way delay: 72.075 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 420.17 Mbit/s
95th percentile per-packet one-way delay: 113.128 ms
Loss rate: 0.16%

Run 4: Report of TCP Vegas — Data Link

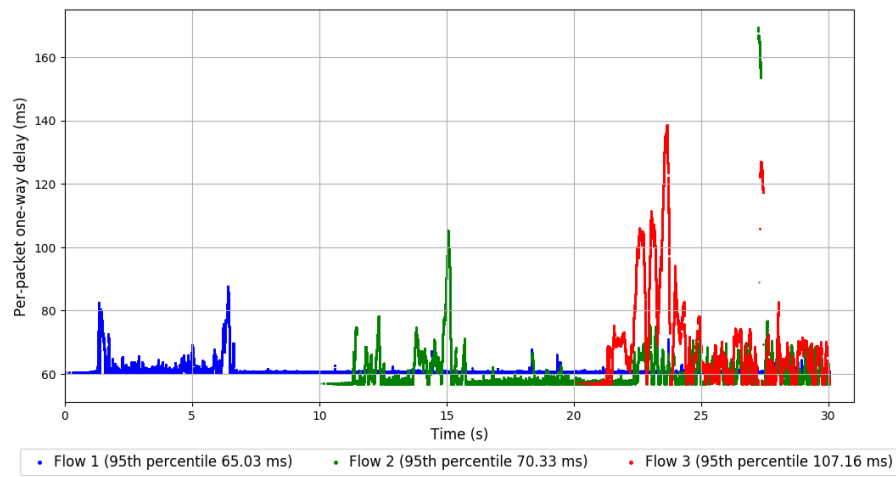
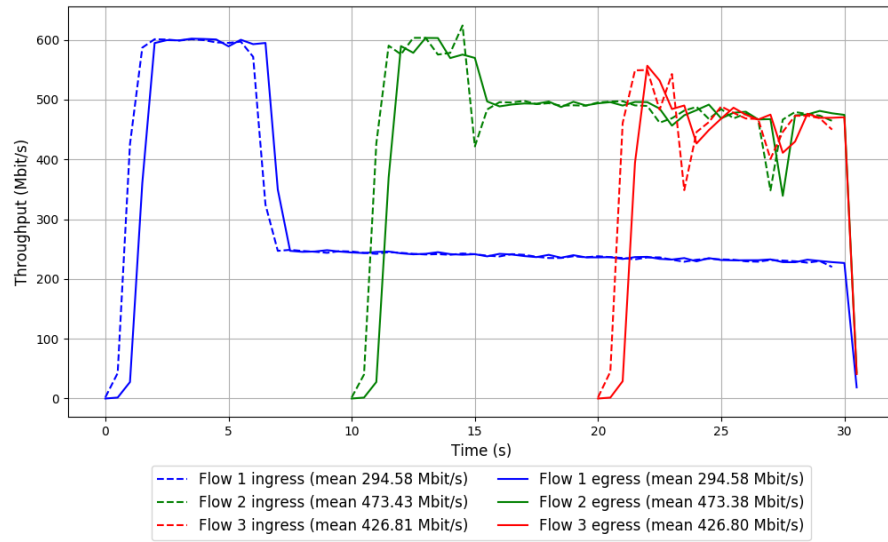


Run 5: Statistics of TCP Vegas

Start at: 2018-12-21 01:16:53
End at: 2018-12-21 01:17:23
Local clock offset: 0.046 ms
Remote clock offset: -0.159 ms

Below is generated by plot.py at 2018-12-21 04:17:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 751.74 Mbit/s
95th percentile per-packet one-way delay: 76.779 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 294.58 Mbit/s
95th percentile per-packet one-way delay: 65.035 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 473.38 Mbit/s
95th percentile per-packet one-way delay: 70.332 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 426.80 Mbit/s
95th percentile per-packet one-way delay: 107.156 ms
Loss rate: 0.01%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-12-20 22:51:25

End at: 2018-12-20 22:51:55

Local clock offset: 1.747 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-12-21 04:17:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 252.11 Mbit/s

95th percentile per-packet one-way delay: 150.180 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 103.47 Mbit/s

95th percentile per-packet one-way delay: 89.165 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 162.90 Mbit/s

95th percentile per-packet one-way delay: 168.428 ms

Loss rate: 0.71%

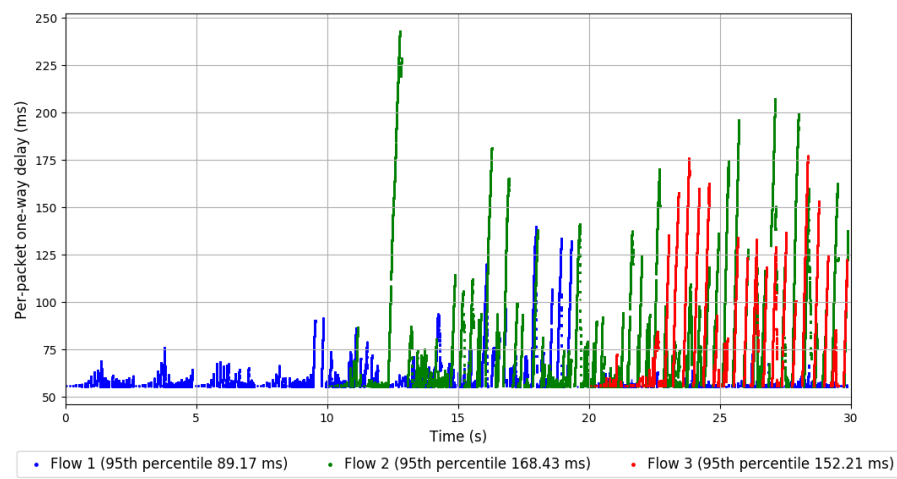
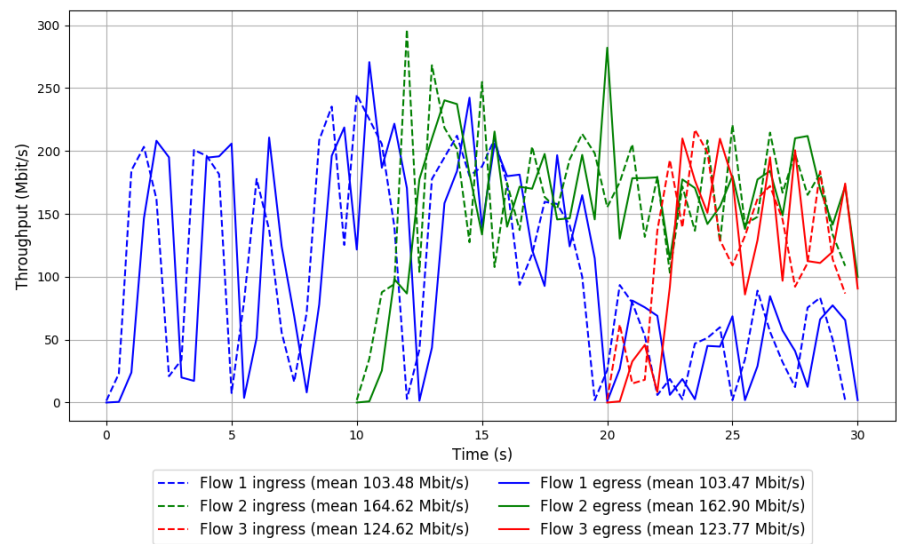
-- Flow 3:

Average throughput: 123.77 Mbit/s

95th percentile per-packet one-way delay: 152.214 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link

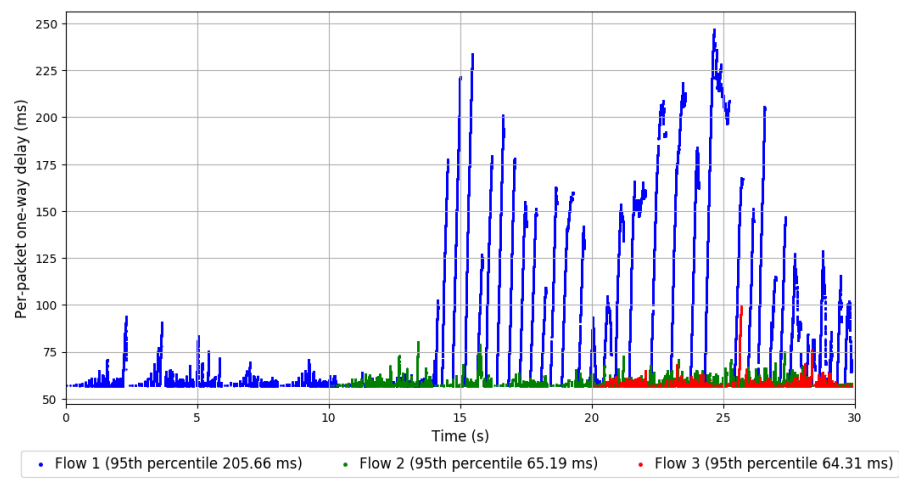
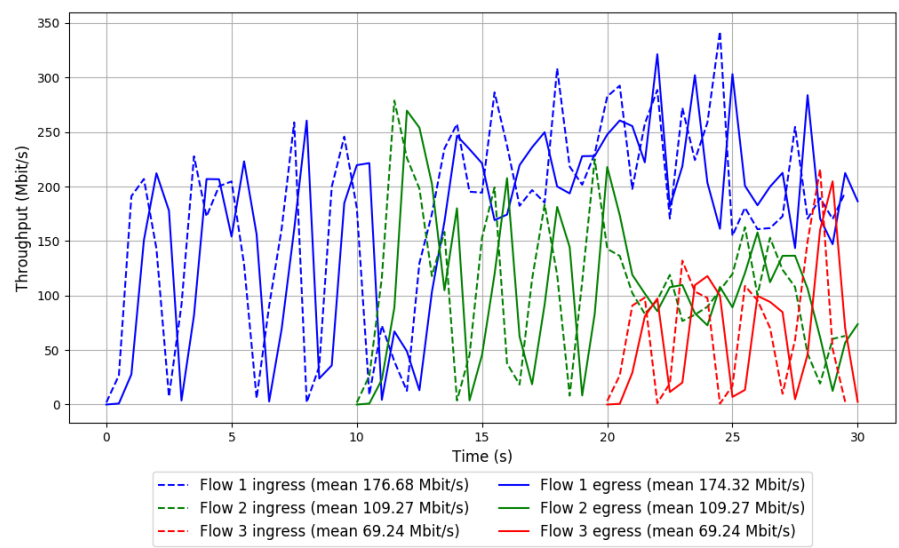


Run 2: Statistics of Verus

Start at: 2018-12-20 23:26:23
End at: 2018-12-20 23:26:53
Local clock offset: -0.316 ms
Remote clock offset: -0.447 ms

Below is generated by plot.py at 2018-12-21 04:17:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 269.63 Mbit/s
95th percentile per-packet one-way delay: 194.675 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 174.32 Mbit/s
95th percentile per-packet one-way delay: 205.664 ms
Loss rate: 1.34%
-- Flow 2:
Average throughput: 109.27 Mbit/s
95th percentile per-packet one-way delay: 65.185 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 69.24 Mbit/s
95th percentile per-packet one-way delay: 64.306 ms
Loss rate: 0.00%

Run 2: Report of Verus — Data Link

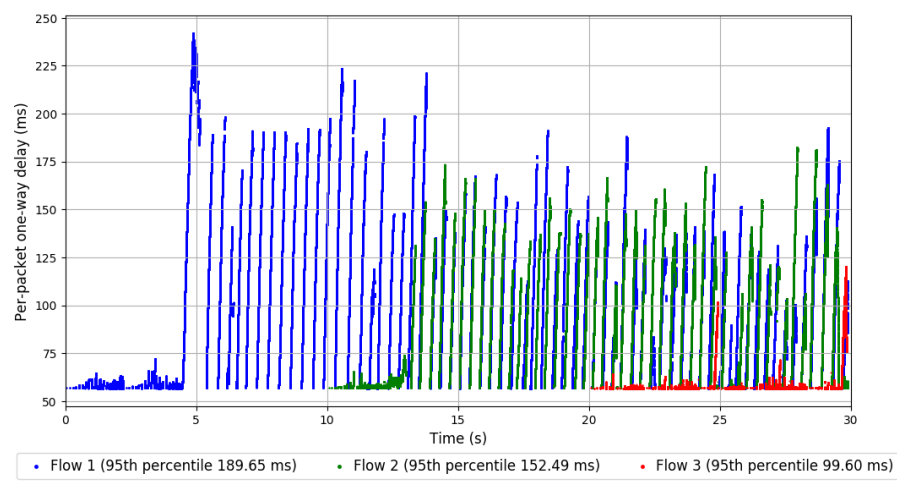
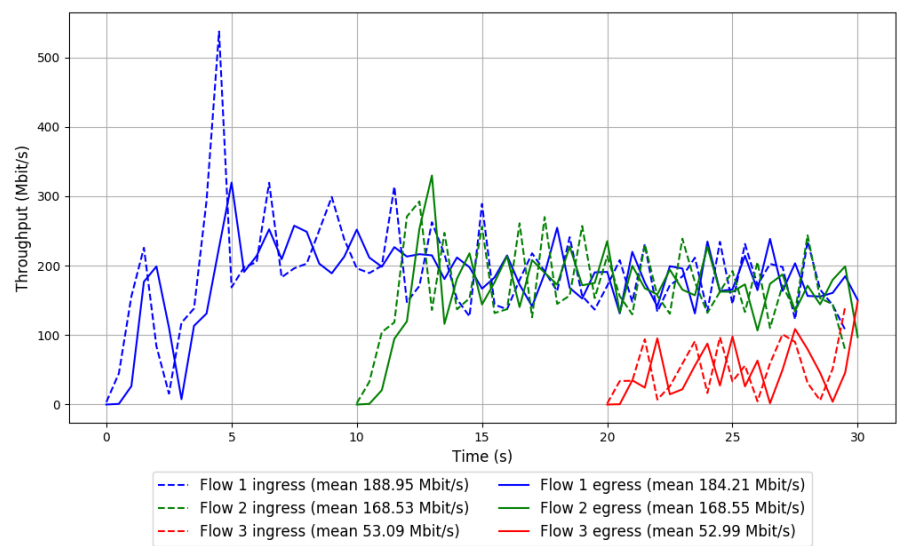


Run 3: Statistics of Verus

Start at: 2018-12-20 23:59:42
End at: 2018-12-21 00:00:12
Local clock offset: -0.096 ms
Remote clock offset: -0.307 ms

Below is generated by plot.py at 2018-12-21 04:17:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 313.47 Mbit/s
95th percentile per-packet one-way delay: 179.160 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 184.21 Mbit/s
95th percentile per-packet one-way delay: 189.647 ms
Loss rate: 2.41%
-- Flow 2:
Average throughput: 168.55 Mbit/s
95th percentile per-packet one-way delay: 152.485 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 52.99 Mbit/s
95th percentile per-packet one-way delay: 99.601 ms
Loss rate: 0.00%

Run 3: Report of Verus — Data Link

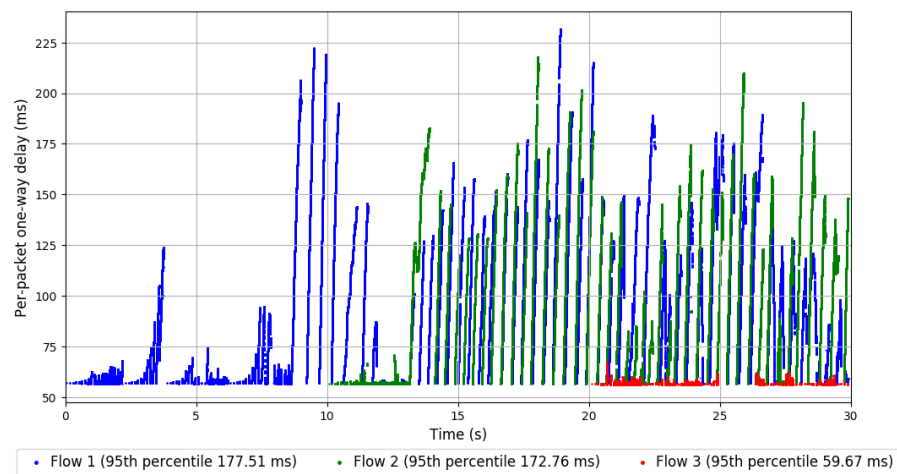
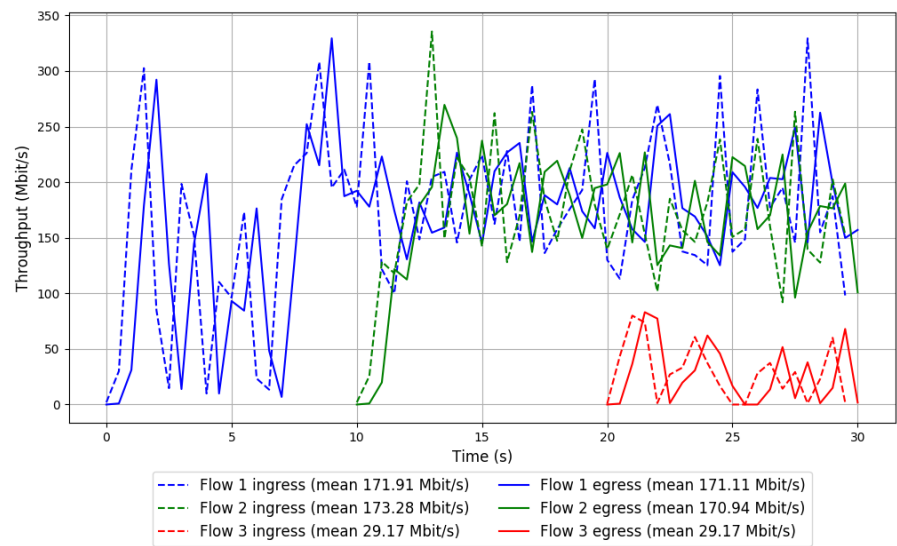


Run 4: Statistics of Verus

Start at: 2018-12-21 00:33:18
End at: 2018-12-21 00:33:48
Local clock offset: -0.082 ms
Remote clock offset: -0.455 ms

Below is generated by plot.py at 2018-12-21 04:17:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 294.24 Mbit/s
95th percentile per-packet one-way delay: 174.851 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 171.11 Mbit/s
95th percentile per-packet one-way delay: 177.506 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 170.94 Mbit/s
95th percentile per-packet one-way delay: 172.764 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 29.17 Mbit/s
95th percentile per-packet one-way delay: 59.668 ms
Loss rate: 0.00%

Run 4: Report of Verus — Data Link

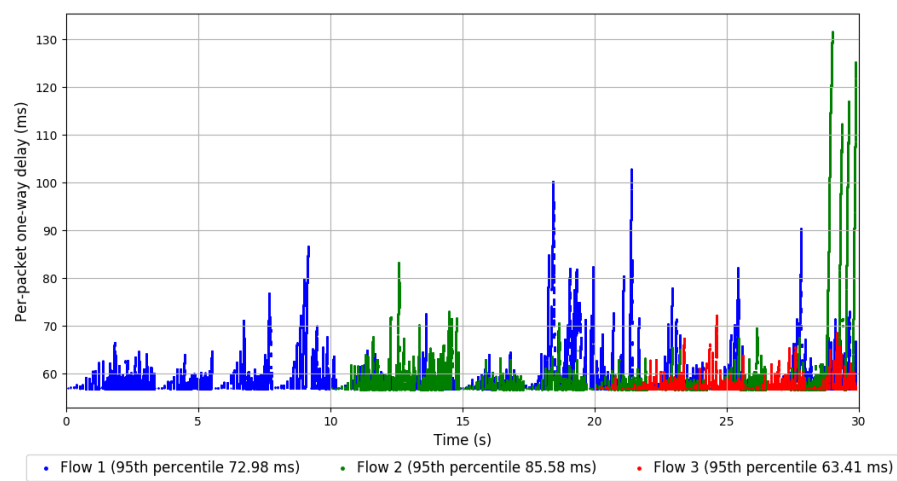
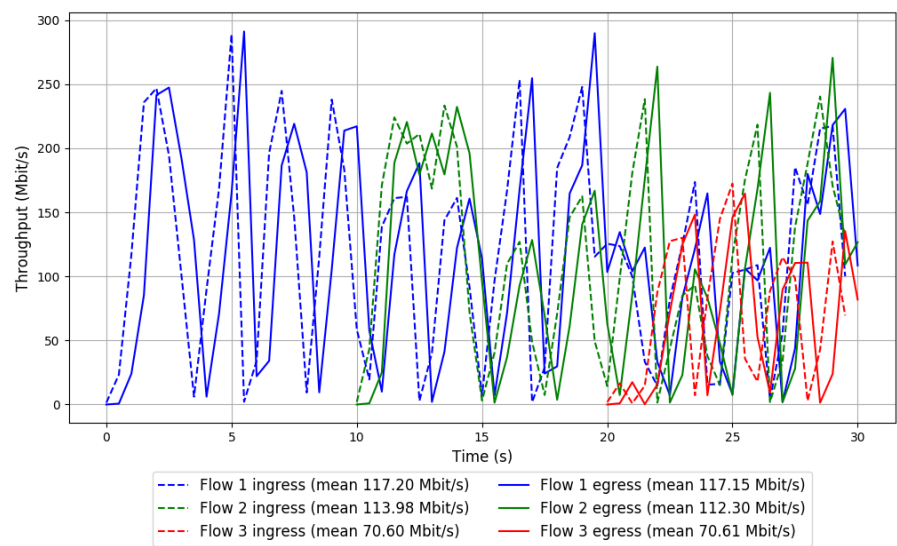


Run 5: Statistics of Verus

Start at: 2018-12-21 01:07:16
End at: 2018-12-21 01:07:46
Local clock offset: 0.063 ms
Remote clock offset: -0.317 ms

Below is generated by plot.py at 2018-12-21 04:17:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 214.99 Mbit/s
95th percentile per-packet one-way delay: 73.438 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 117.15 Mbit/s
95th percentile per-packet one-way delay: 72.980 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 112.30 Mbit/s
95th percentile per-packet one-way delay: 85.582 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 70.61 Mbit/s
95th percentile per-packet one-way delay: 63.405 ms
Loss rate: 0.00%

Run 5: Report of Verus — Data Link

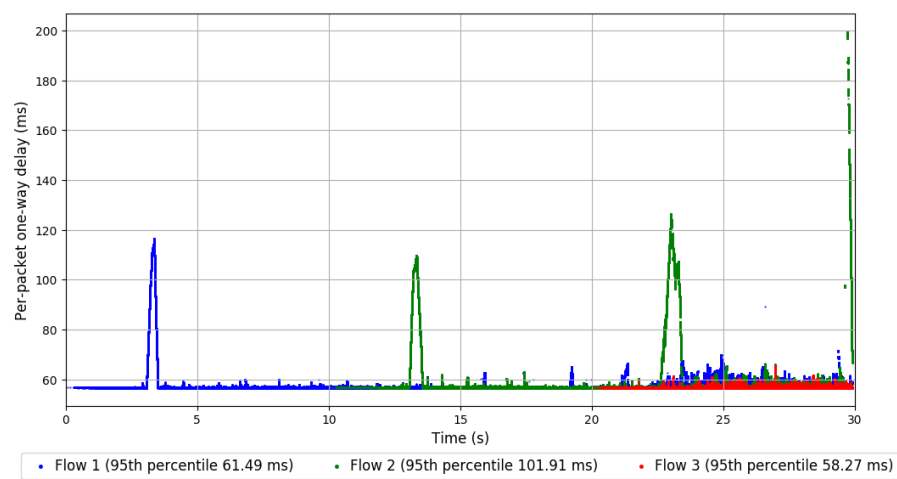
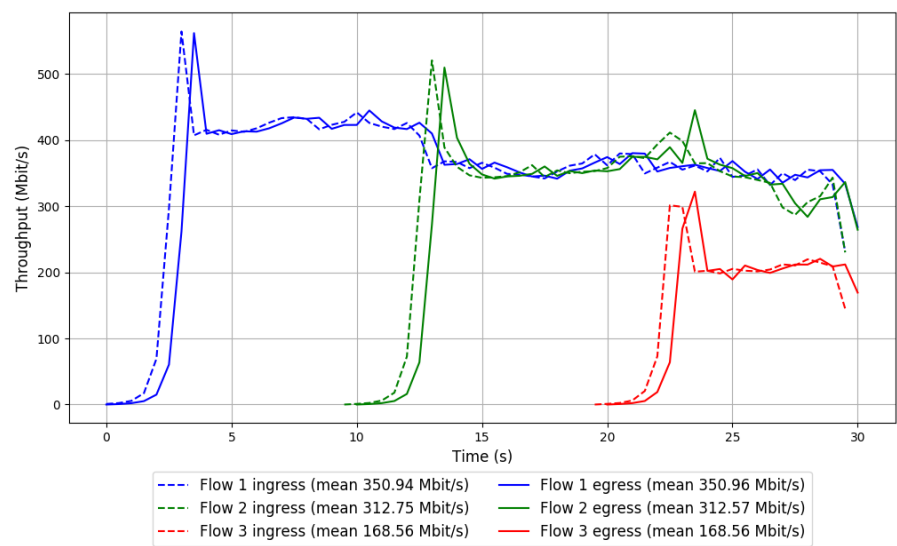


Run 1: Statistics of PCC-Vivace

Start at: 2018-12-20 22:43:11
End at: 2018-12-20 22:43:41
Local clock offset: 0.159 ms
Remote clock offset: -0.162 ms

Below is generated by plot.py at 2018-12-21 04:20:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 614.81 Mbit/s
95th percentile per-packet one-way delay: 65.260 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 350.96 Mbit/s
95th percentile per-packet one-way delay: 61.493 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 312.57 Mbit/s
95th percentile per-packet one-way delay: 101.910 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 168.56 Mbit/s
95th percentile per-packet one-way delay: 58.271 ms
Loss rate: 0.02%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-12-20 23:17:35

End at: 2018-12-20 23:18:05

Local clock offset: -0.044 ms

Remote clock offset: 0.219 ms

Below is generated by plot.py at 2018-12-21 04:20:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 554.35 Mbit/s

95th percentile per-packet one-way delay: 60.886 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 312.08 Mbit/s

95th percentile per-packet one-way delay: 61.931 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 280.22 Mbit/s

95th percentile per-packet one-way delay: 60.329 ms

Loss rate: 0.00%

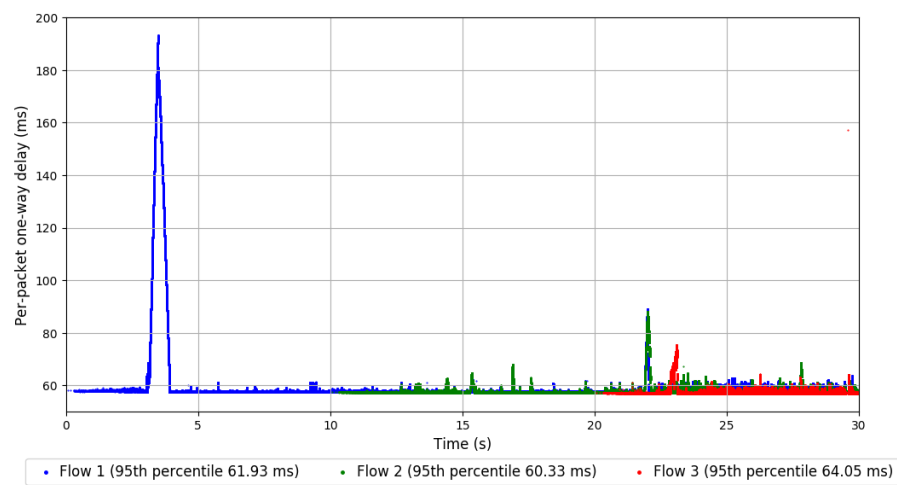
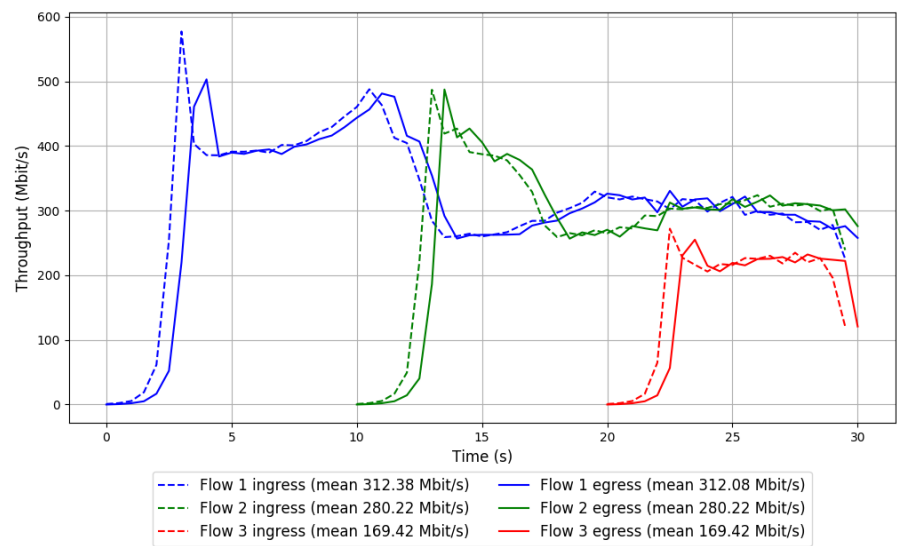
-- Flow 3:

Average throughput: 169.42 Mbit/s

95th percentile per-packet one-way delay: 64.051 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-12-20 23:51:42

End at: 2018-12-20 23:52:13

Local clock offset: -1.942 ms

Remote clock offset: -0.35 ms

Below is generated by plot.py at 2018-12-21 04:20:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 463.20 Mbit/s

95th percentile per-packet one-way delay: 61.540 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 252.96 Mbit/s

95th percentile per-packet one-way delay: 60.643 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 235.78 Mbit/s

95th percentile per-packet one-way delay: 63.855 ms

Loss rate: 0.00%

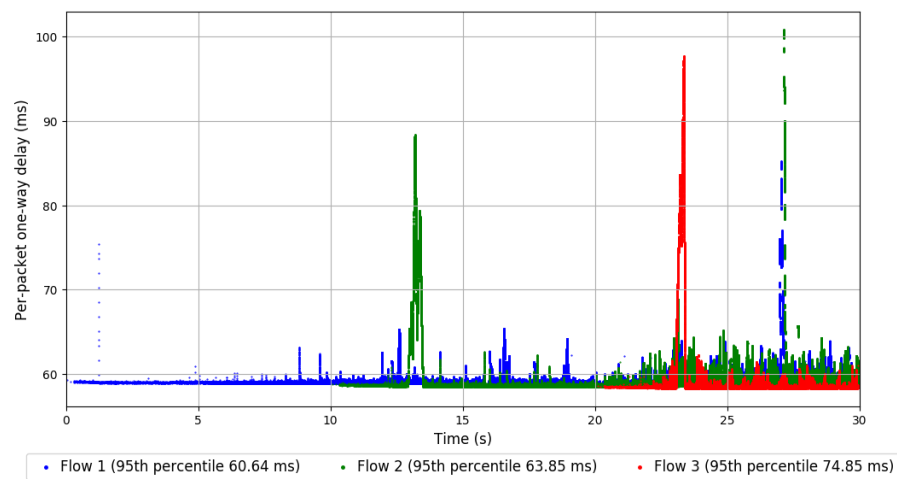
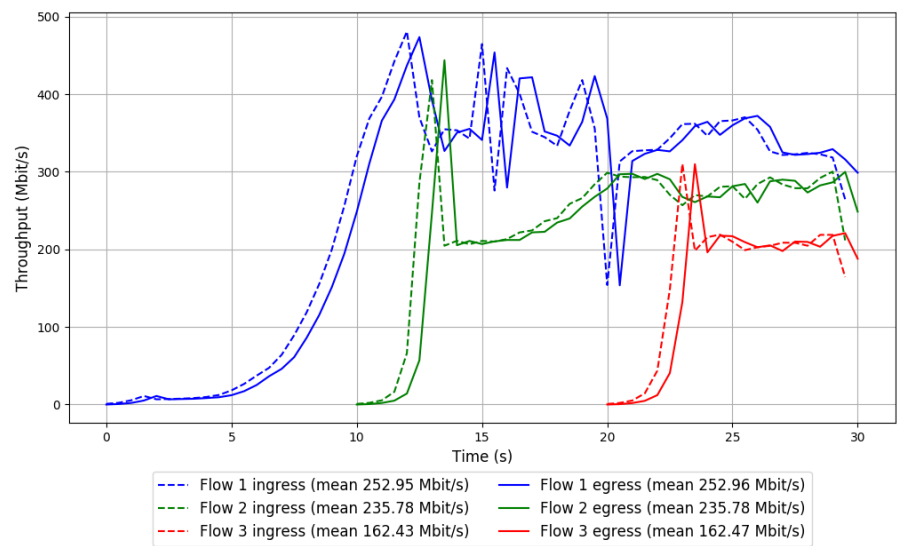
-- Flow 3:

Average throughput: 162.47 Mbit/s

95th percentile per-packet one-way delay: 74.854 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-12-21 00:25:12

End at: 2018-12-21 00:25:42

Local clock offset: -1.738 ms

Remote clock offset: 0.194 ms

Below is generated by plot.py at 2018-12-21 04:20:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 445.42 Mbit/s

95th percentile per-packet one-way delay: 62.725 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 309.54 Mbit/s

95th percentile per-packet one-way delay: 63.390 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 173.16 Mbit/s

95th percentile per-packet one-way delay: 62.717 ms

Loss rate: 0.01%

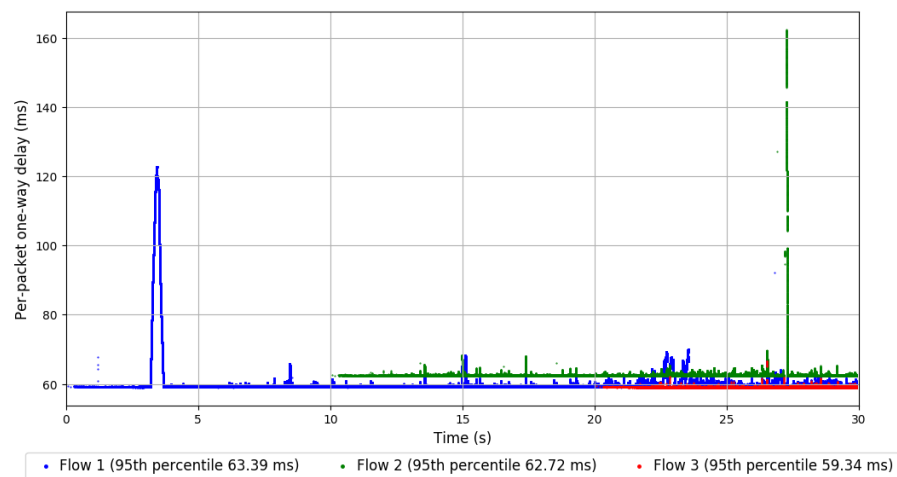
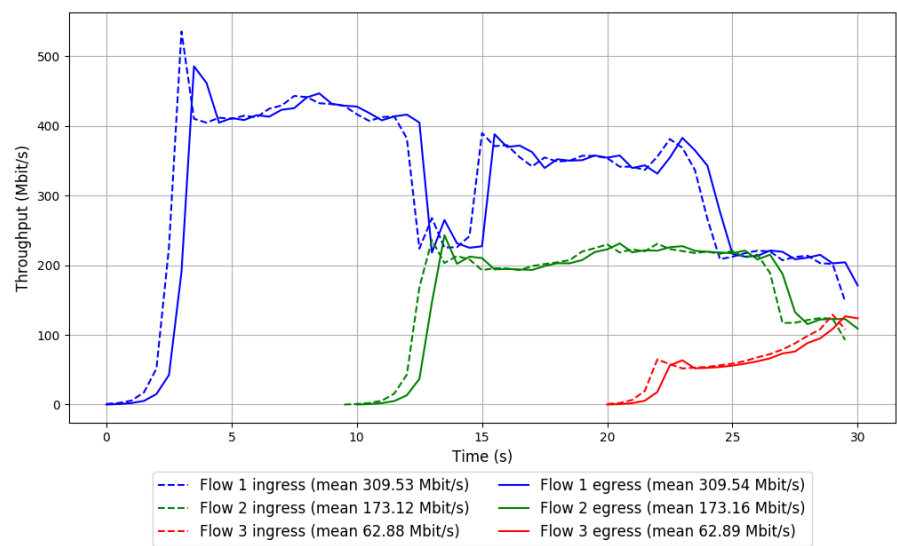
-- Flow 3:

Average throughput: 62.89 Mbit/s

95th percentile per-packet one-way delay: 59.335 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-12-21 00:59:10

End at: 2018-12-21 00:59:40

Local clock offset: 0.055 ms

Remote clock offset: -0.2 ms

Below is generated by plot.py at 2018-12-21 04:20:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 555.59 Mbit/s

95th percentile per-packet one-way delay: 59.040 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 338.88 Mbit/s

95th percentile per-packet one-way delay: 59.485 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 248.05 Mbit/s

95th percentile per-packet one-way delay: 58.621 ms

Loss rate: 0.00%

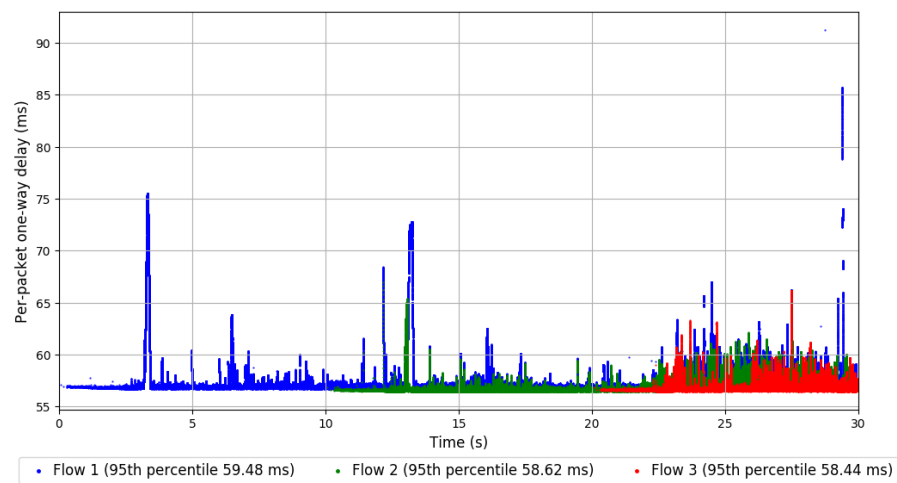
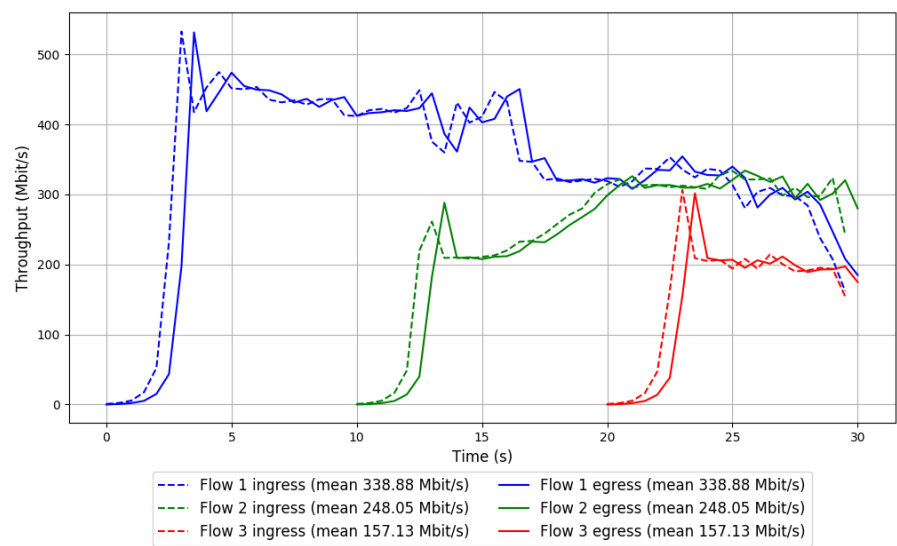
-- Flow 3:

Average throughput: 157.13 Mbit/s

95th percentile per-packet one-way delay: 58.444 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

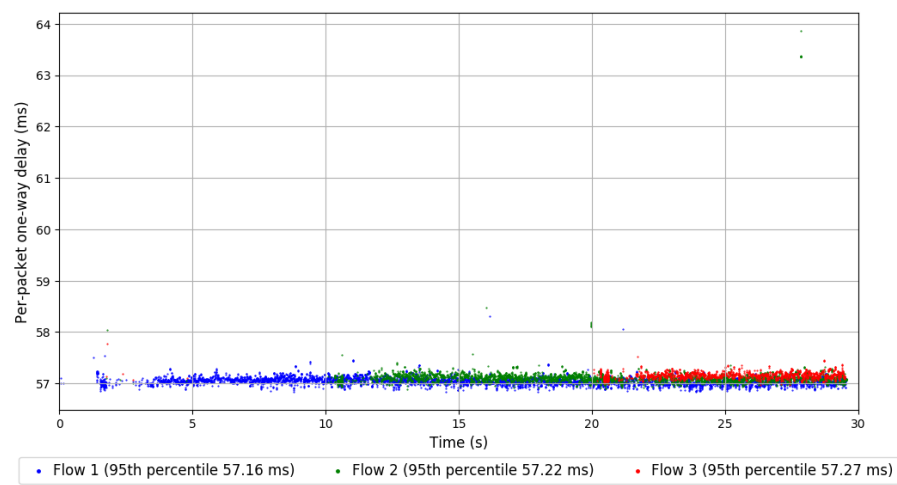
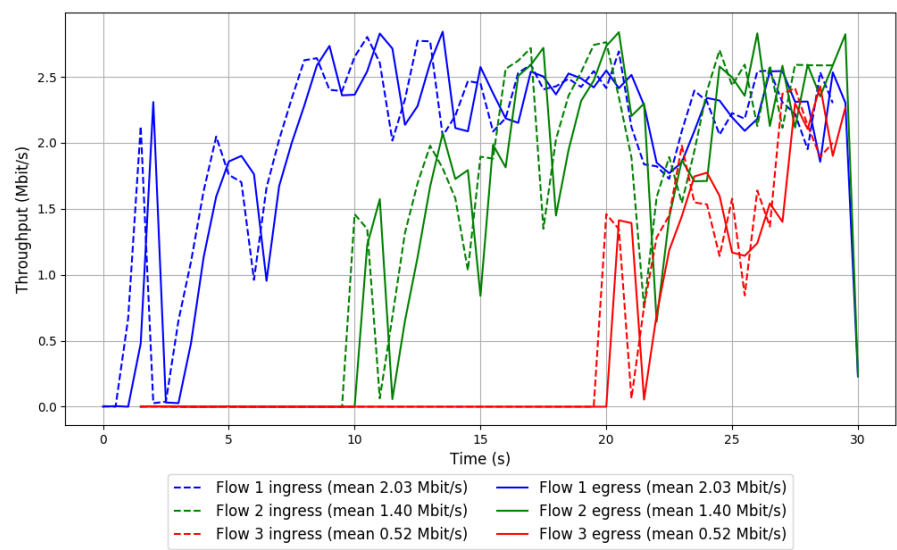


```
Run 1: Statistics of WebRTC media

Start at: 2018-12-20 22:58:16
End at: 2018-12-20 22:58:46
Local clock offset: -0.021 ms
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2018-12-21 04:20:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.84 Mbit/s
95th percentile per-packet one-way delay: 57.212 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 57.163 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 57.219 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 57.268 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-12-20 23:33:15

End at: 2018-12-20 23:33:45

Local clock offset: -0.089 ms

Remote clock offset: 0.238 ms

Below is generated by plot.py at 2018-12-21 04:20:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 60.755 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 57.900 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 60.795 ms

Loss rate: 0.00%

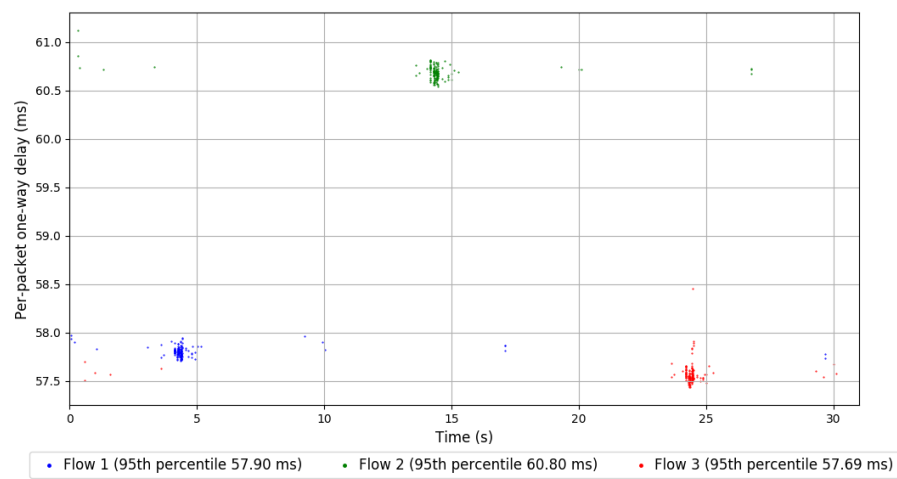
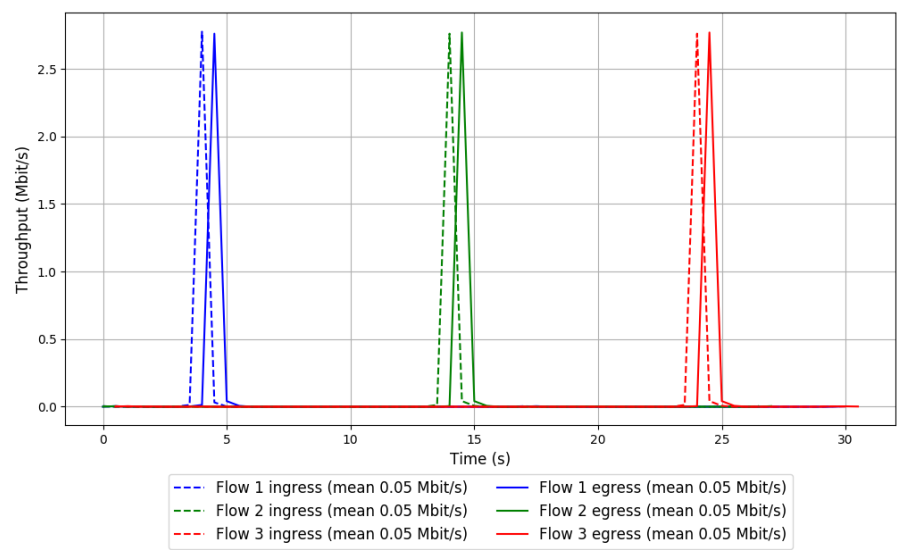
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 57.694 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

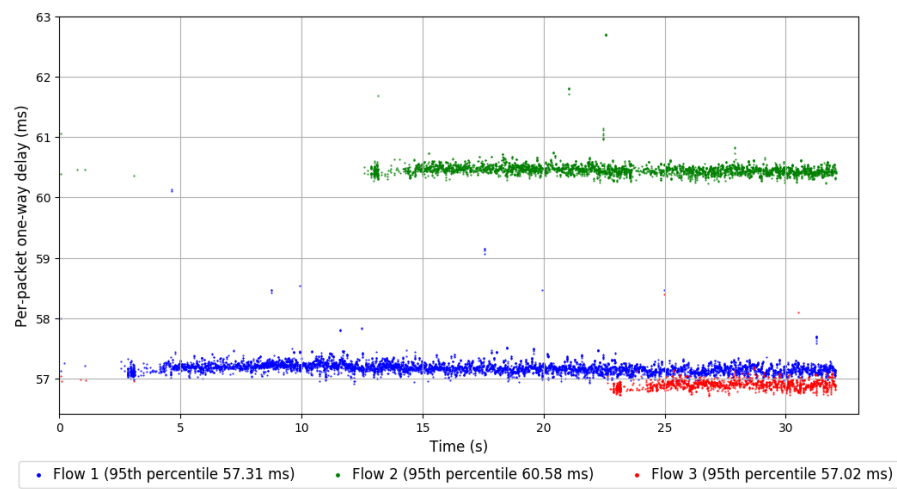
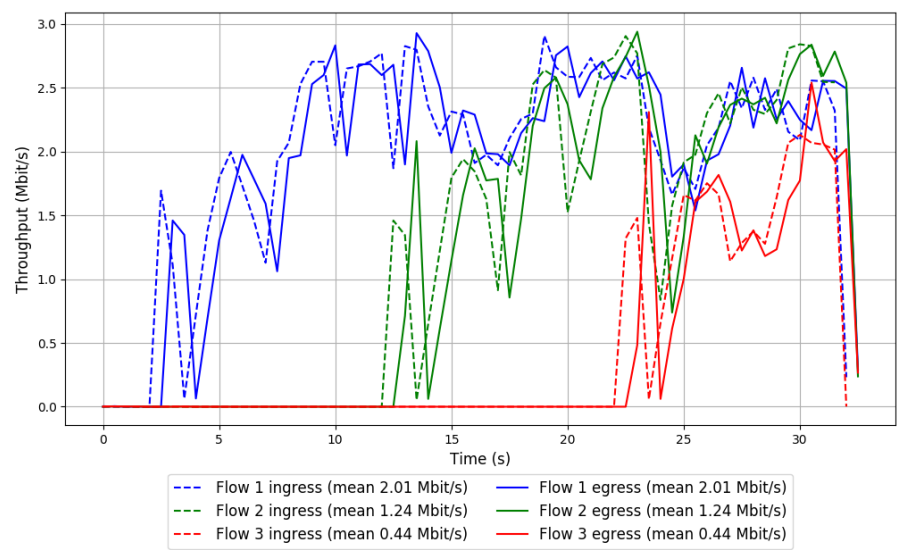


Run 3: Statistics of WebRTC media

Start at: 2018-12-21 00:06:35
End at: 2018-12-21 00:07:05
Local clock offset: -0.159 ms
Remote clock offset: -0.263 ms

Below is generated by plot.py at 2018-12-21 04:20:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.69 Mbit/s
95th percentile per-packet one-way delay: 60.528 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 57.313 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.24 Mbit/s
95th percentile per-packet one-way delay: 60.581 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 57.022 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

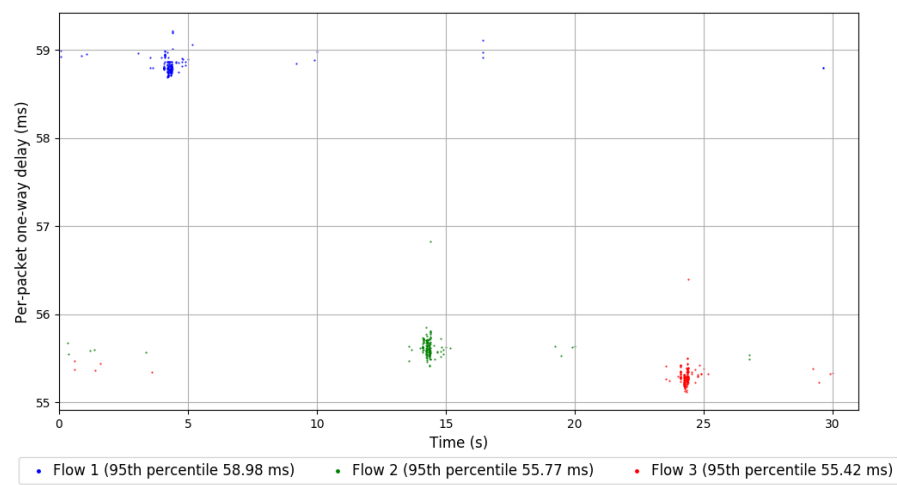
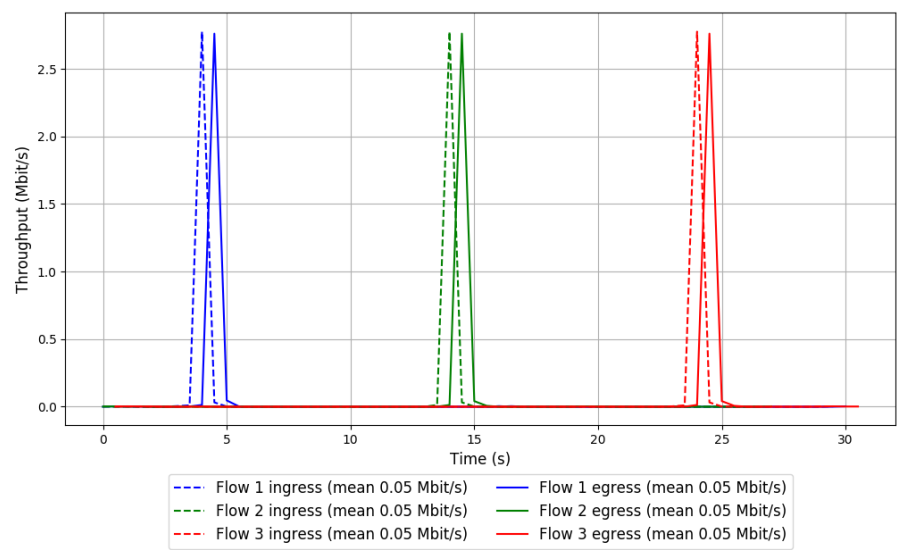


Run 4: Statistics of WebRTC media

Start at: 2018-12-21 00:40:16
End at: 2018-12-21 00:40:46
Local clock offset: 1.607 ms
Remote clock offset: -0.014 ms

```
# Below is generated by plot.py at 2018-12-21 04:20:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 58.917 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 58.984 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 55.771 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 55.424 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-12-21 01:13:52
End at: 2018-12-21 01:14:22
Local clock offset: -0.062 ms
Remote clock offset: -0.346 ms

Below is generated by plot.py at 2018-12-21 04:20:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 60.284 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 57.173 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 56.981 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 60.336 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

