

Pantheon Report

Generated at 2018-12-20 08:19:58 (UTC).

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

Repeated the test of 19 congestion control schemes 5 times.

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

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

System info:

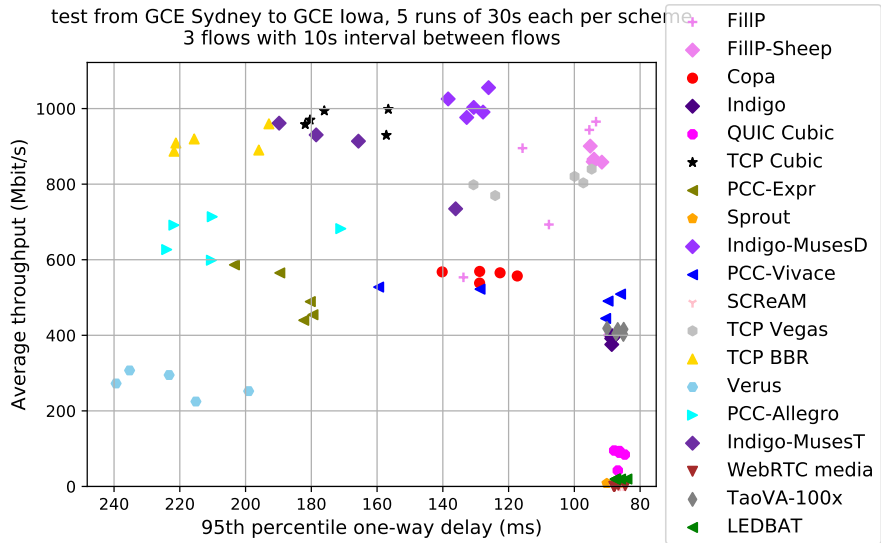
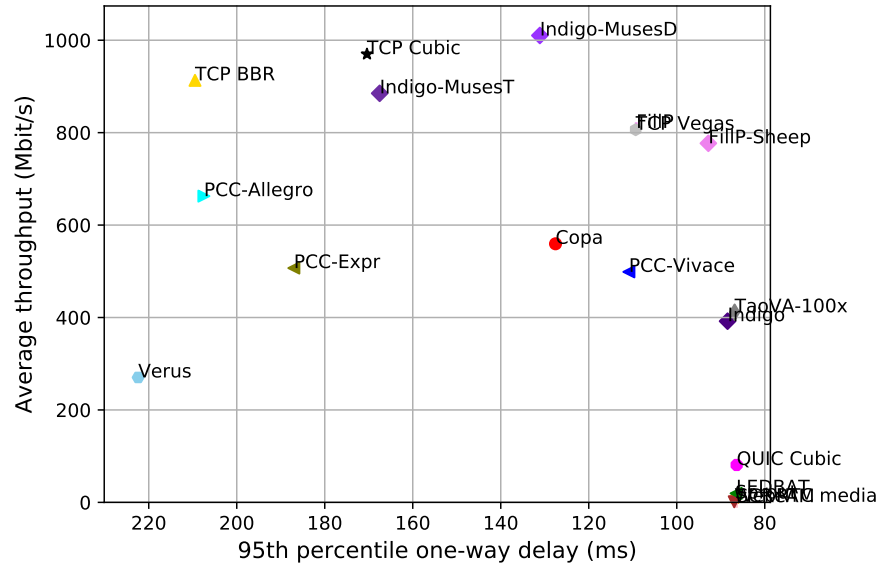
```
Linux 4.15.0-1025-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ c654af0b7d59d4ef4b914cfac404e1fc2e96dc68
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
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 Iowa, 5 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	485.64	441.73	401.14	193.21	222.41	202.26	1.59	2.22	2.53
Copa	5	296.93	274.08	240.44	119.54	133.93	120.80	0.01	0.01	0.11
TCP Cubic	5	518.14	480.57	396.46	165.41	153.88	194.93	0.14	0.19	0.78
FillP	5	469.99	381.61	260.85	113.71	92.15	91.22	0.44	0.01	0.02
FillP-Sheep	5	461.57	350.70	247.37	95.75	90.18	88.84	0.00	0.01	0.00
Indigo	5	206.53	200.70	162.57	88.24	88.95	88.79	0.01	0.02	0.00
Indigo-MusesD	5	569.16	491.55	354.33	130.39	131.32	128.12	0.29	0.17	0.34
Indigo-MusesT	4	559.22	360.50	311.97	170.12	135.80	130.87	1.37	0.55	0.28
LEDBAT	5	12.59	8.35	4.09	86.49	86.29	86.30	0.00	0.00	0.00
PCC-Allegro	5	363.71	318.34	265.99	206.98	146.60	198.84	4.04	1.38	3.25
PCC-Expr	5	279.87	261.37	161.10	174.49	184.75	155.99	1.37	1.90	0.53
QUIC Cubic	5	42.59	44.80	26.47	86.33	86.19	86.04	0.00	0.00	0.00
SCReAM	5	0.22	0.22	0.22	86.25	86.28	86.17	0.00	0.00	0.00
Sprout	5	4.44	4.14	3.39	86.72	86.75	86.67	0.00	0.00	0.00
TaoVA-100x	5	207.84	205.86	199.83	86.82	86.75	87.00	0.00	0.12	0.00
TCP Vegas	5	467.99	338.82	338.98	103.96	94.86	122.14	0.00	0.00	0.03
Verus	5	152.26	149.99	57.60	210.23	189.66	115.65	3.01	0.87	0.02
PCC-Vivace	5	290.07	237.32	154.07	112.46	118.68	102.33	0.15	0.00	0.00
WebRTC media	5	0.83	0.30	0.13	86.79	86.98	86.77	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-12-20 02:56:53

End at: 2018-12-20 02:57:23

Local clock offset: 0.735 ms

Remote clock offset: 0.208 ms

Below is generated by plot.py at 2018-12-20 06:15:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 959.71 Mbit/s

95th percentile per-packet one-way delay: 192.896 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 518.78 Mbit/s

95th percentile per-packet one-way delay: 178.931 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 468.89 Mbit/s

95th percentile per-packet one-way delay: 220.064 ms

Loss rate: 2.32%

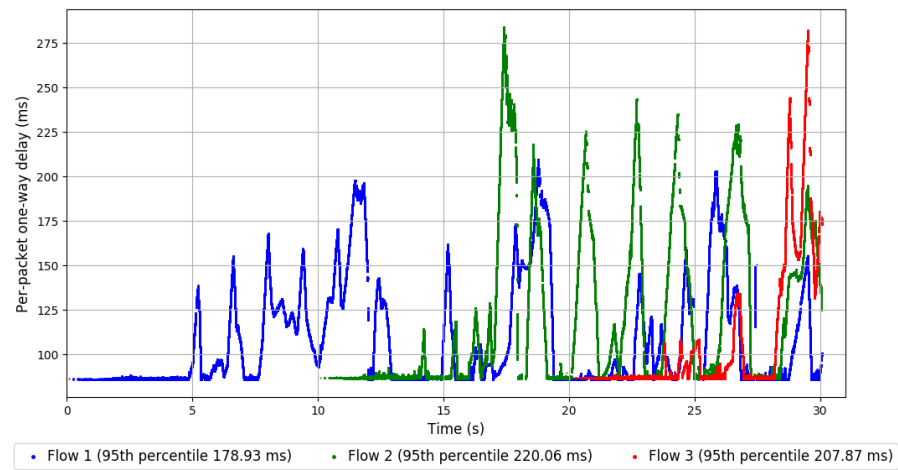
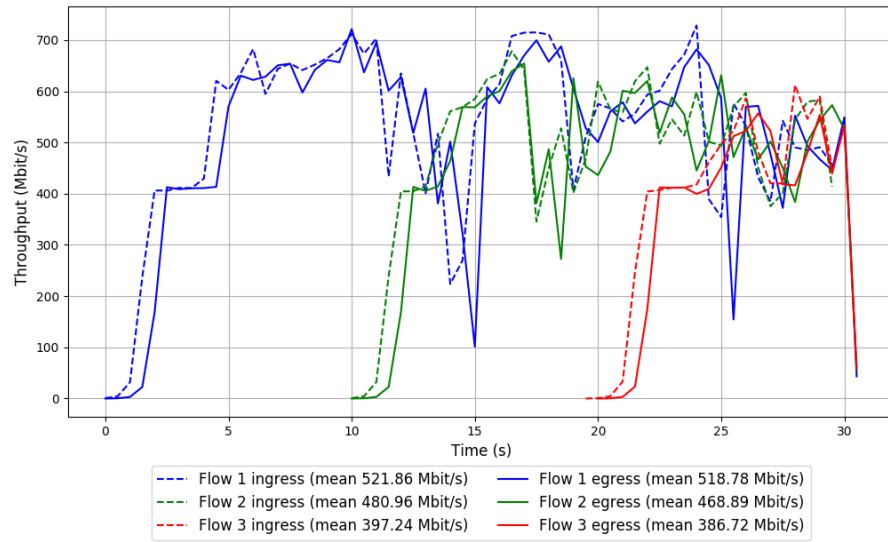
-- Flow 3:

Average throughput: 386.72 Mbit/s

95th percentile per-packet one-way delay: 207.874 ms

Loss rate: 2.65%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-12-20 03:31:11

End at: 2018-12-20 03:31:41

Local clock offset: -1.384 ms

Remote clock offset: 0.079 ms

Below is generated by plot.py at 2018-12-20 06:15:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 919.68 Mbit/s

95th percentile per-packet one-way delay: 215.618 ms

Loss rate: 1.86%

-- Flow 1:

Average throughput: 485.67 Mbit/s

95th percentile per-packet one-way delay: 156.253 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 439.69 Mbit/s

95th percentile per-packet one-way delay: 233.909 ms

Loss rate: 3.03%

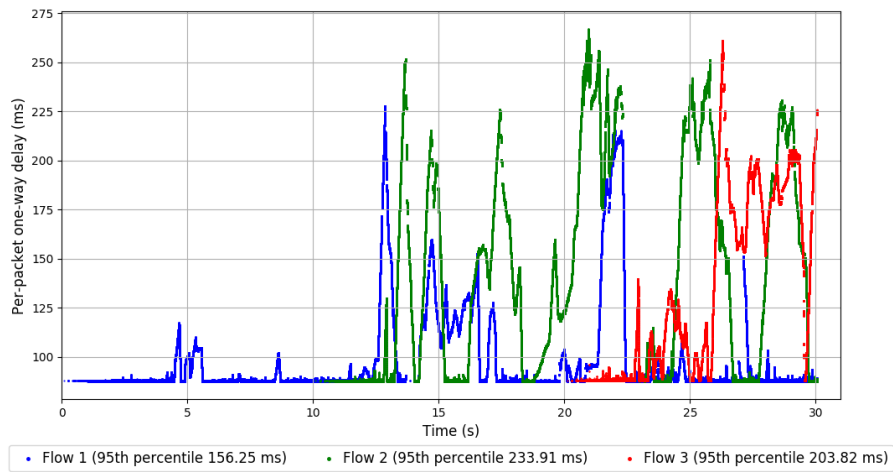
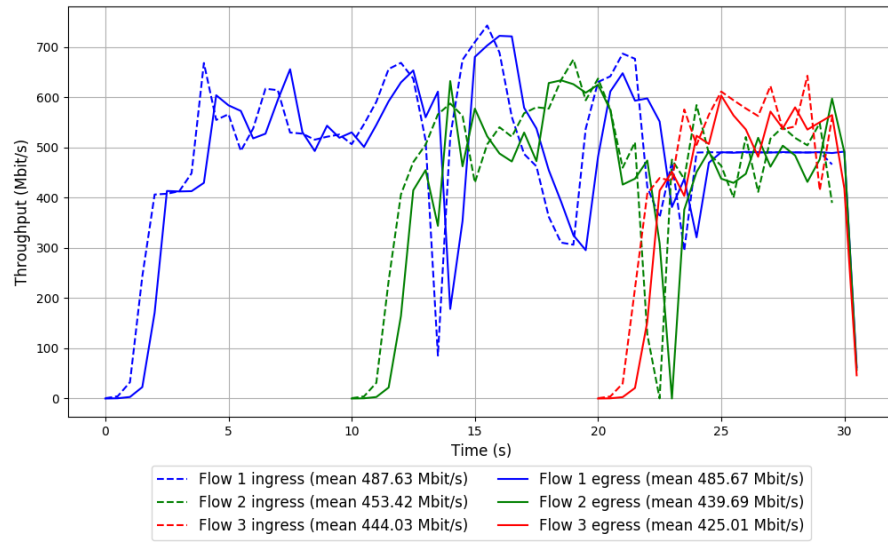
-- Flow 3:

Average throughput: 425.01 Mbit/s

95th percentile per-packet one-way delay: 203.819 ms

Loss rate: 4.28%

Run 2: Report of TCP BBR — Data Link

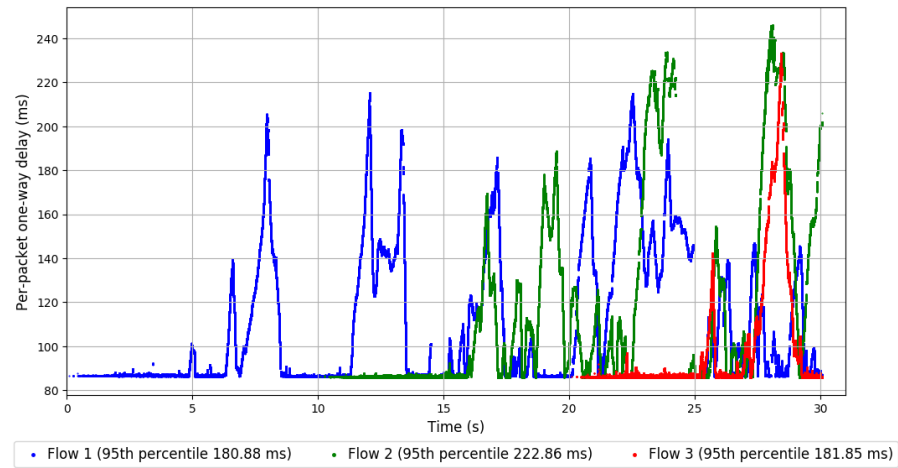
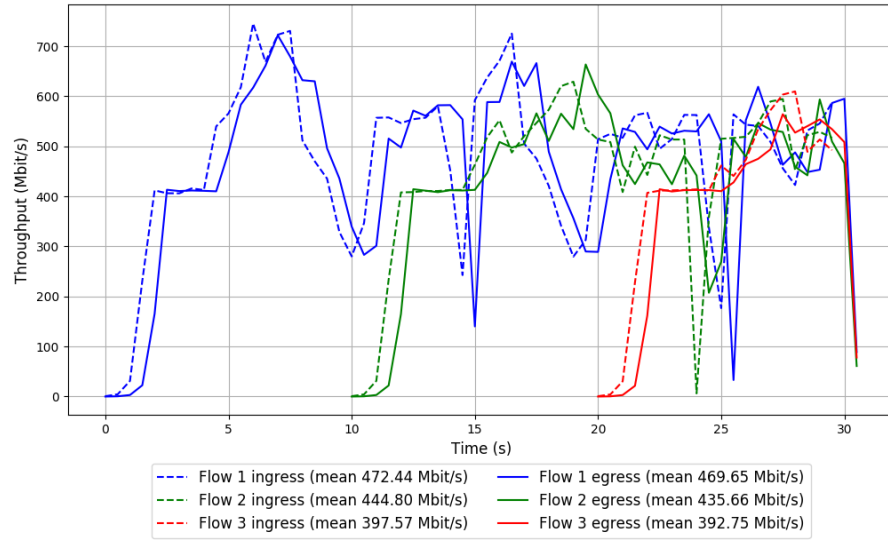


Run 3: Statistics of TCP BBR

Start at: 2018-12-20 04:05:44
End at: 2018-12-20 04:06:14
Local clock offset: -0.163 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2018-12-20 06:15:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 890.31 Mbit/s
95th percentile per-packet one-way delay: 195.980 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 469.65 Mbit/s
95th percentile per-packet one-way delay: 180.882 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 435.66 Mbit/s
95th percentile per-packet one-way delay: 222.863 ms
Loss rate: 2.05%
-- Flow 3:
Average throughput: 392.75 Mbit/s
95th percentile per-packet one-way delay: 181.850 ms
Loss rate: 1.21%

Run 3: Report of TCP BBR — Data Link

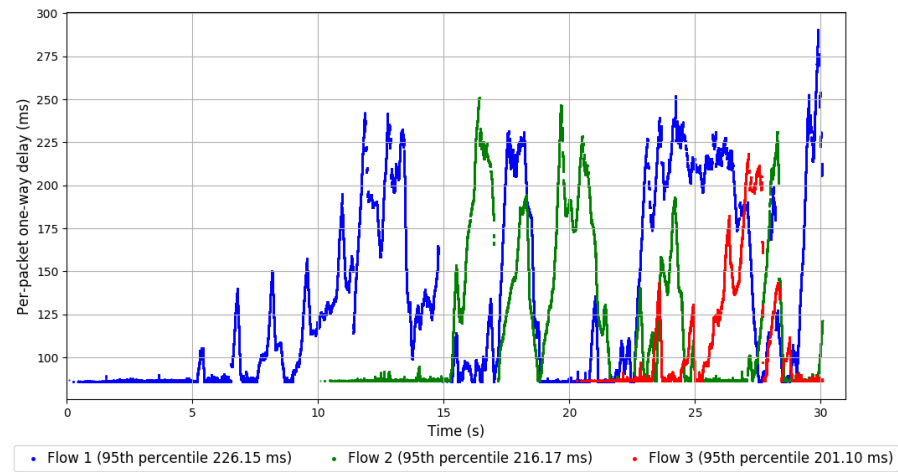
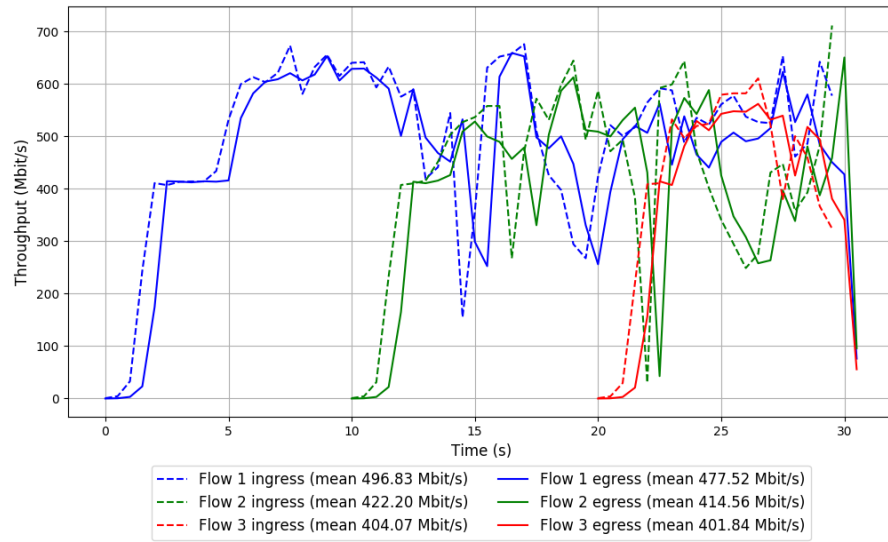


Run 4: Statistics of TCP BBR

Start at: 2018-12-20 04:39:14
End at: 2018-12-20 04:39:44
Local clock offset: -0.141 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2018-12-20 06:15:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 887.20 Mbit/s
95th percentile per-packet one-way delay: 221.748 ms
Loss rate: 2.76%
-- Flow 1:
Average throughput: 477.52 Mbit/s
95th percentile per-packet one-way delay: 226.151 ms
Loss rate: 3.89%
-- Flow 2:
Average throughput: 414.56 Mbit/s
95th percentile per-packet one-way delay: 216.172 ms
Loss rate: 1.81%
-- Flow 3:
Average throughput: 401.84 Mbit/s
95th percentile per-packet one-way delay: 201.099 ms
Loss rate: 0.55%

Run 4: Report of TCP BBR — Data Link

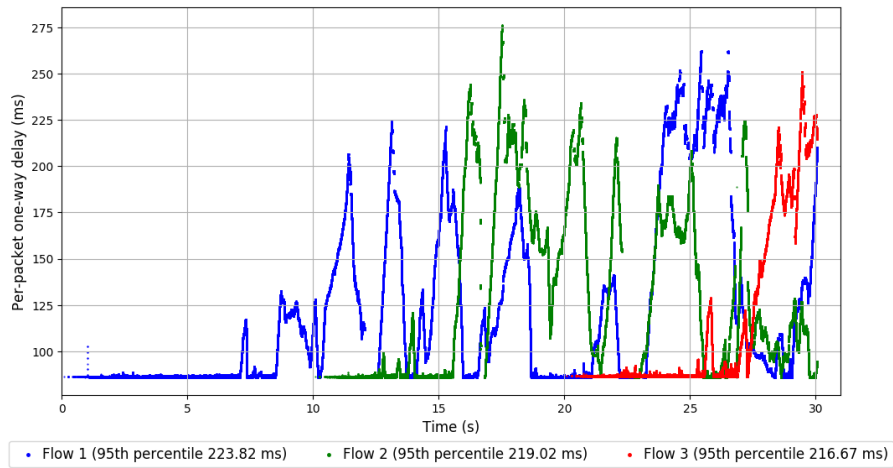
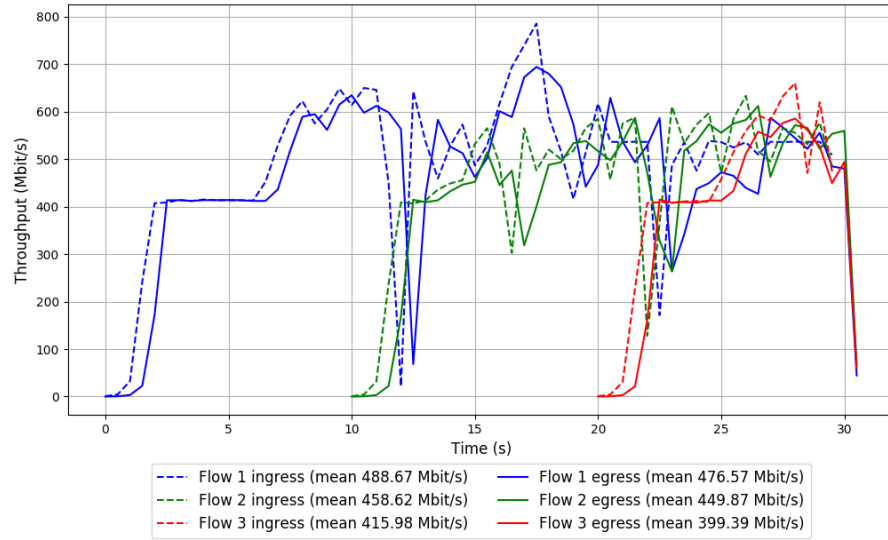


Run 5: Statistics of TCP BBR

Start at: 2018-12-20 05:13:31
End at: 2018-12-20 05:14:01
Local clock offset: -0.287 ms
Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-12-20 06:15:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 908.93 Mbit/s
95th percentile per-packet one-way delay: 221.197 ms
Loss rate: 2.51%
-- Flow 1:
Average throughput: 476.57 Mbit/s
95th percentile per-packet one-way delay: 223.825 ms
Loss rate: 2.48%
-- Flow 2:
Average throughput: 449.87 Mbit/s
95th percentile per-packet one-way delay: 219.023 ms
Loss rate: 1.90%
-- Flow 3:
Average throughput: 399.39 Mbit/s
95th percentile per-packet one-way delay: 216.673 ms
Loss rate: 3.98%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-12-20 02:51:35

End at: 2018-12-20 02:52:05

Local clock offset: 0.592 ms

Remote clock offset: 0.209 ms

Below is generated by plot.py at 2018-12-20 06:16:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 538.23 Mbit/s

95th percentile per-packet one-way delay: 128.818 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 278.67 Mbit/s

95th percentile per-packet one-way delay: 98.985 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 264.34 Mbit/s

95th percentile per-packet one-way delay: 129.151 ms

Loss rate: 0.01%

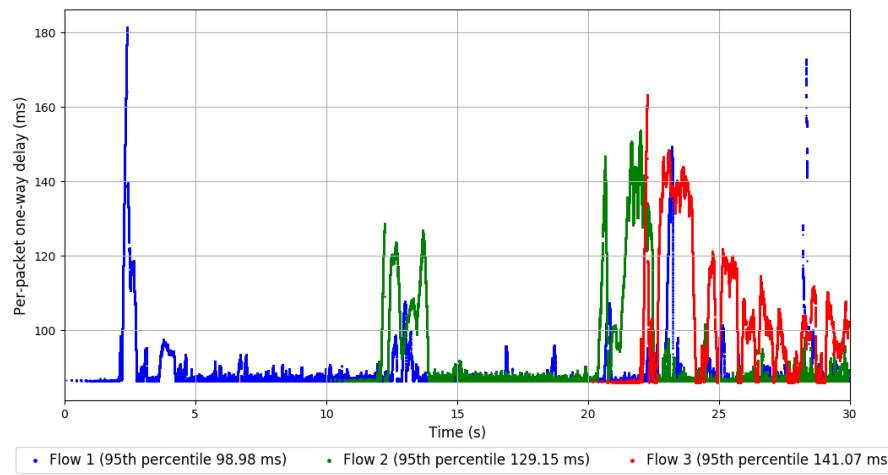
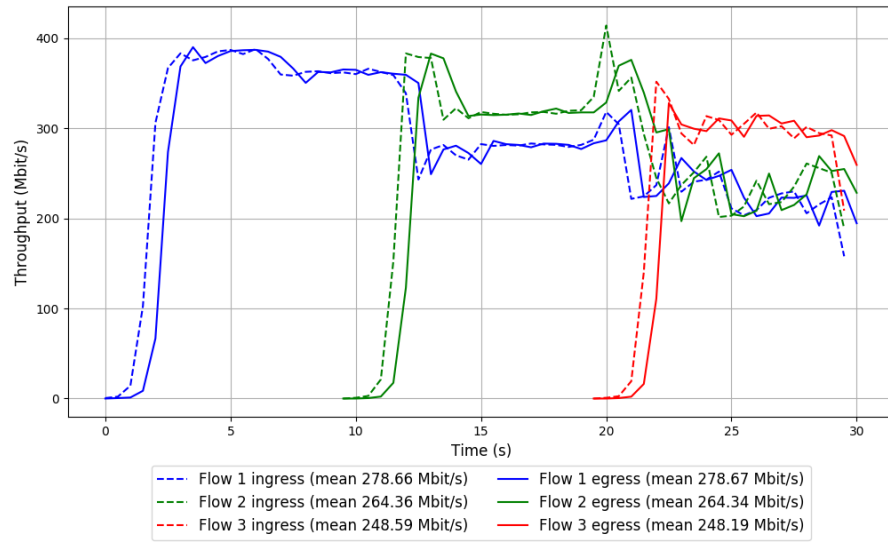
-- Flow 3:

Average throughput: 248.19 Mbit/s

95th percentile per-packet one-way delay: 141.068 ms

Loss rate: 0.15%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-12-20 03:25:46

End at: 2018-12-20 03:26:16

Local clock offset: 1.671 ms

Remote clock offset: 0.061 ms

Below is generated by plot.py at 2018-12-20 06:17:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 567.86 Mbit/s

95th percentile per-packet one-way delay: 140.196 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 276.57 Mbit/s

95th percentile per-packet one-way delay: 142.331 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 304.62 Mbit/s

95th percentile per-packet one-way delay: 142.548 ms

Loss rate: 0.00%

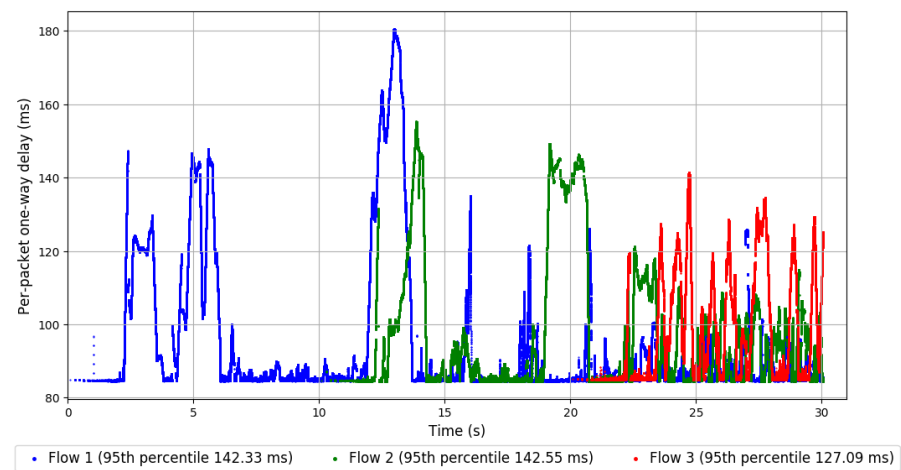
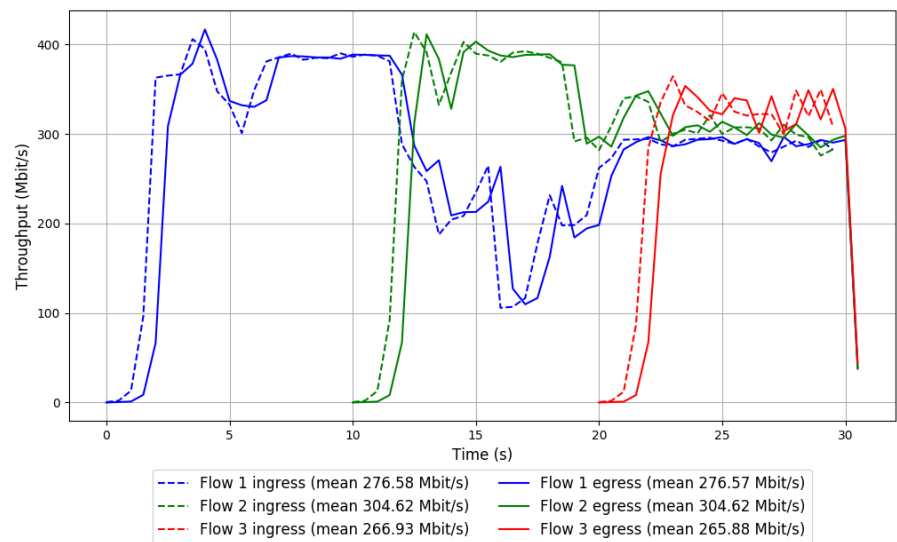
-- Flow 3:

Average throughput: 265.88 Mbit/s

95th percentile per-packet one-way delay: 127.088 ms

Loss rate: 0.38%

Run 2: Report of Copa — Data Link

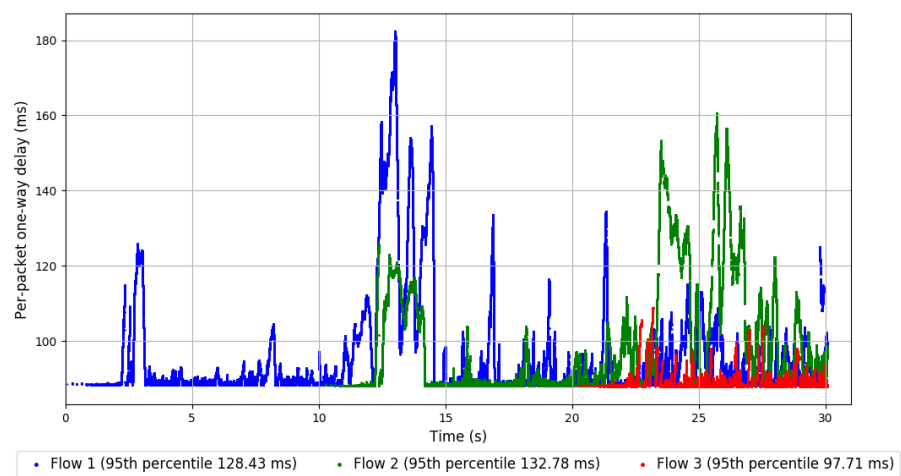
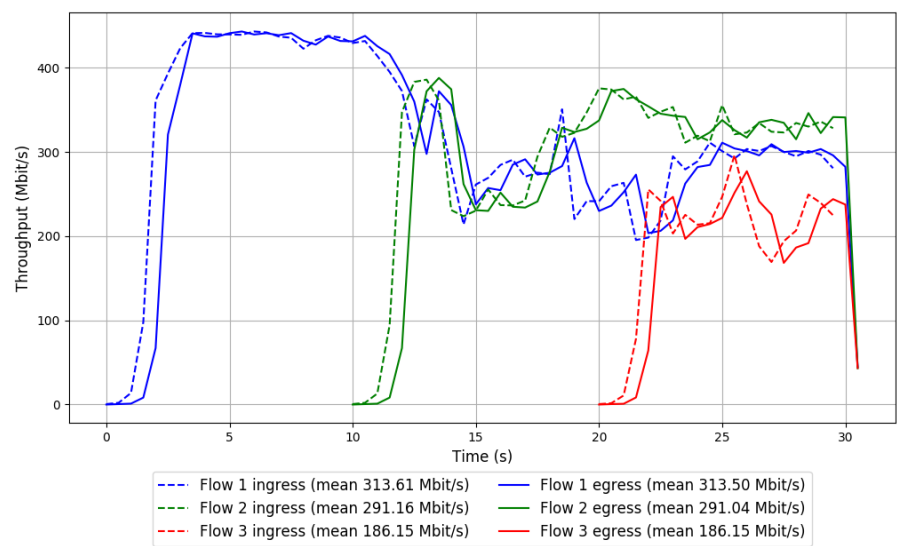


Run 3: Statistics of Copa

Start at: 2018-12-20 04:00:17
End at: 2018-12-20 04:00:47
Local clock offset: -1.9 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-12-20 06:17:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 569.07 Mbit/s
95th percentile per-packet one-way delay: 128.796 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 313.50 Mbit/s
95th percentile per-packet one-way delay: 128.431 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 291.04 Mbit/s
95th percentile per-packet one-way delay: 132.780 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 186.15 Mbit/s
95th percentile per-packet one-way delay: 97.706 ms
Loss rate: 0.00%

Run 3: Report of Copa — Data Link

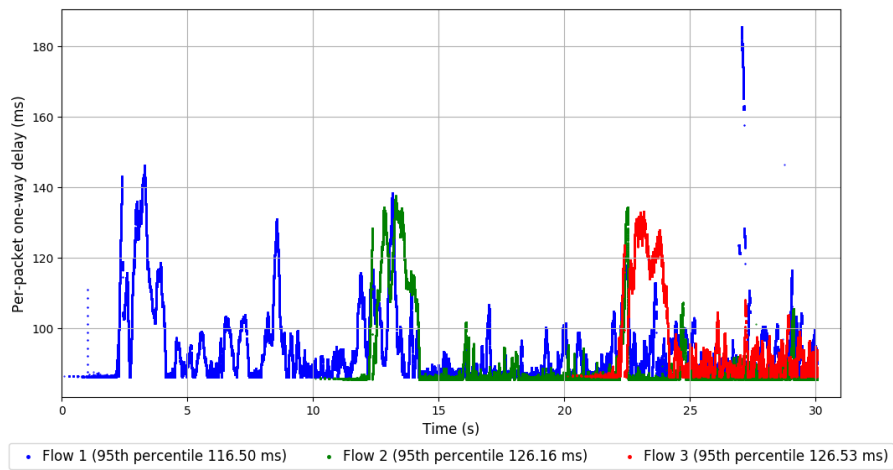
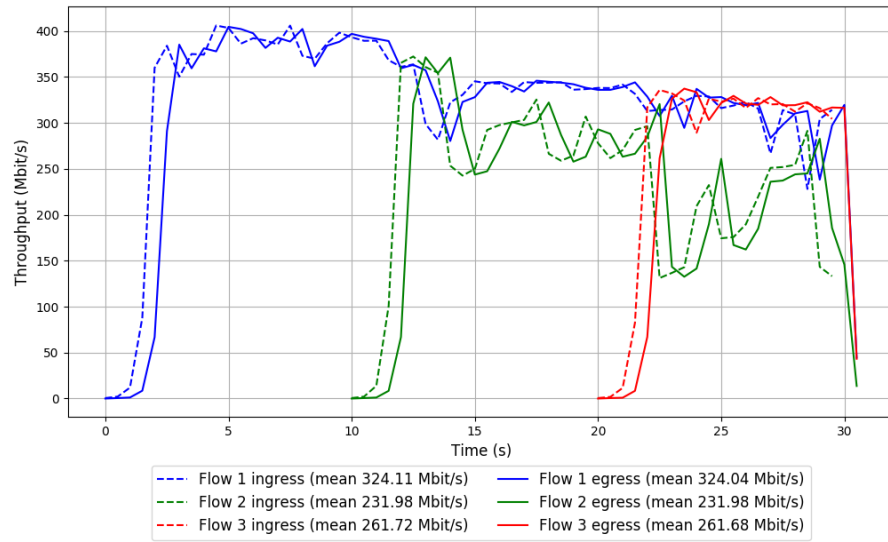


Run 4: Statistics of Copa

Start at: 2018-12-20 04:34:09
End at: 2018-12-20 04:34:39
Local clock offset: 0.157 ms
Remote clock offset: -0.018 ms

```
# Below is generated by plot.py at 2018-12-20 06:33:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 565.42 Mbit/s
95th percentile per-packet one-way delay: 122.595 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 324.04 Mbit/s
95th percentile per-packet one-way delay: 116.499 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 231.98 Mbit/s
95th percentile per-packet one-way delay: 126.157 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 261.68 Mbit/s
95th percentile per-packet one-way delay: 126.530 ms
Loss rate: 0.01%
```

Run 4: Report of Copa — Data Link

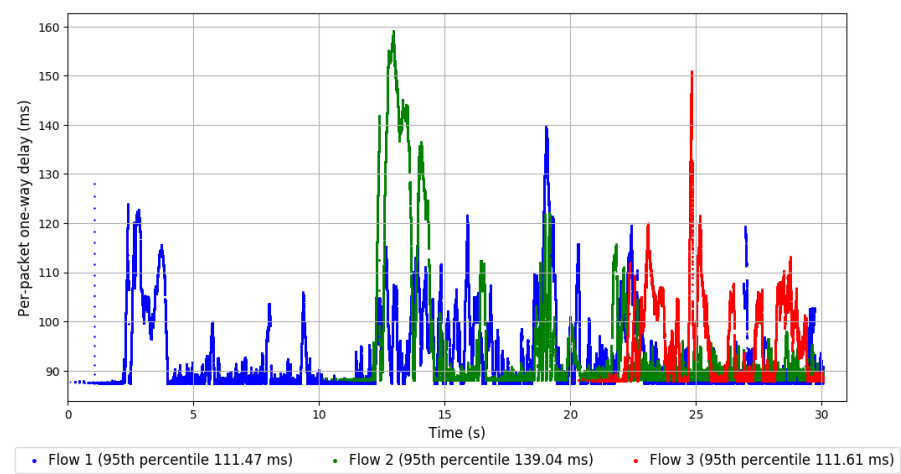
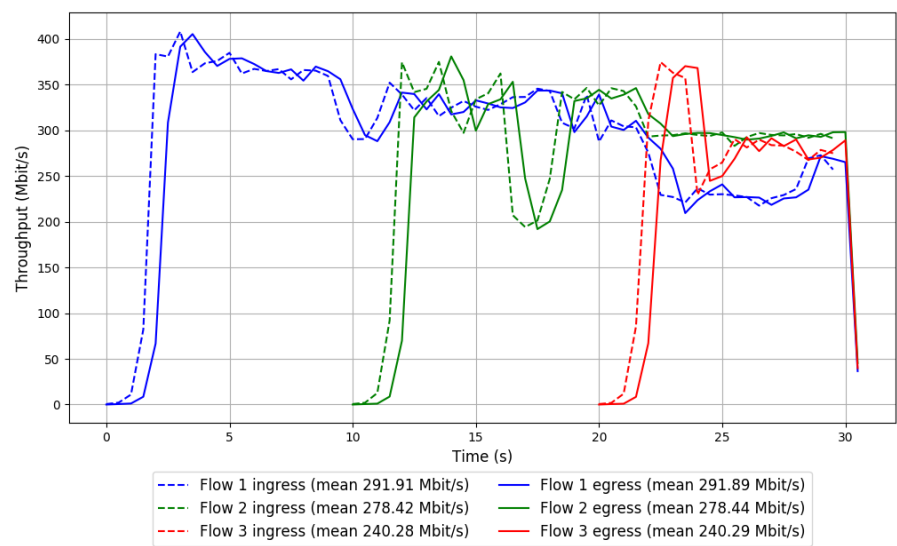


Run 5: Statistics of Copa

Start at: 2018-12-20 05:08:07
End at: 2018-12-20 05:08:37
Local clock offset: -1.744 ms
Remote clock offset: -0.024 ms

Below is generated by plot.py at 2018-12-20 06:33:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 556.98 Mbit/s
95th percentile per-packet one-way delay: 117.362 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 291.89 Mbit/s
95th percentile per-packet one-way delay: 111.471 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 278.44 Mbit/s
95th percentile per-packet one-way delay: 139.036 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 240.29 Mbit/s
95th percentile per-packet one-way delay: 111.605 ms
Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-12-20 03:06:09

End at: 2018-12-20 03:06:39

Local clock offset: 0.82 ms

Remote clock offset: 0.276 ms

Below is generated by plot.py at 2018-12-20 06:33:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 969.99 Mbit/s

95th percentile per-packet one-way delay: 180.374 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 564.70 Mbit/s

95th percentile per-packet one-way delay: 185.283 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 431.26 Mbit/s

95th percentile per-packet one-way delay: 124.745 ms

Loss rate: 0.00%

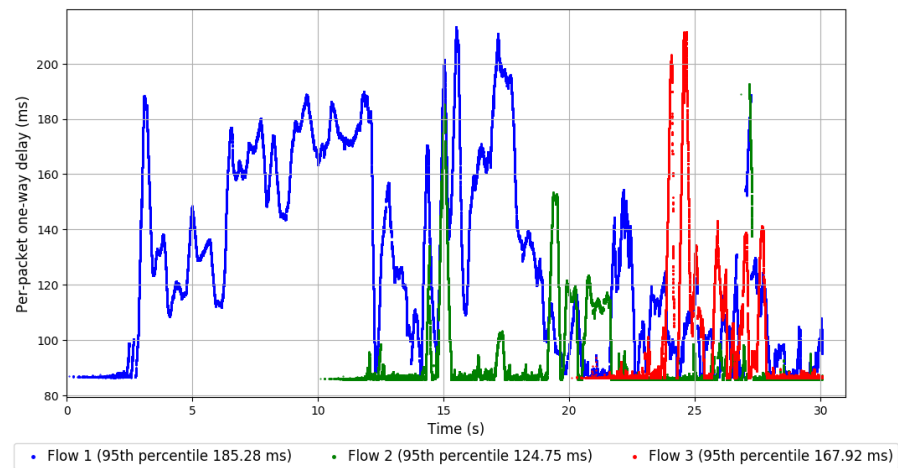
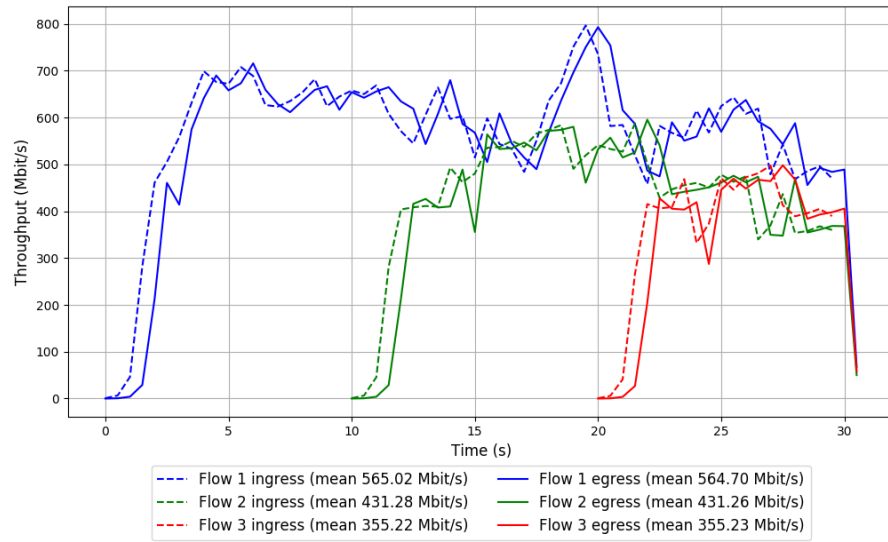
-- Flow 3:

Average throughput: 355.23 Mbit/s

95th percentile per-packet one-way delay: 167.916 ms

Loss rate: 0.01%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-12-20 03:40:43

End at: 2018-12-20 03:41:13

Local clock offset: 1.287 ms

Remote clock offset: 0.075 ms

Below is generated by plot.py at 2018-12-20 06:33:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 998.15 Mbit/s

95th percentile per-packet one-way delay: 156.584 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 552.57 Mbit/s

95th percentile per-packet one-way delay: 157.740 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 486.10 Mbit/s

95th percentile per-packet one-way delay: 126.806 ms

Loss rate: 0.20%

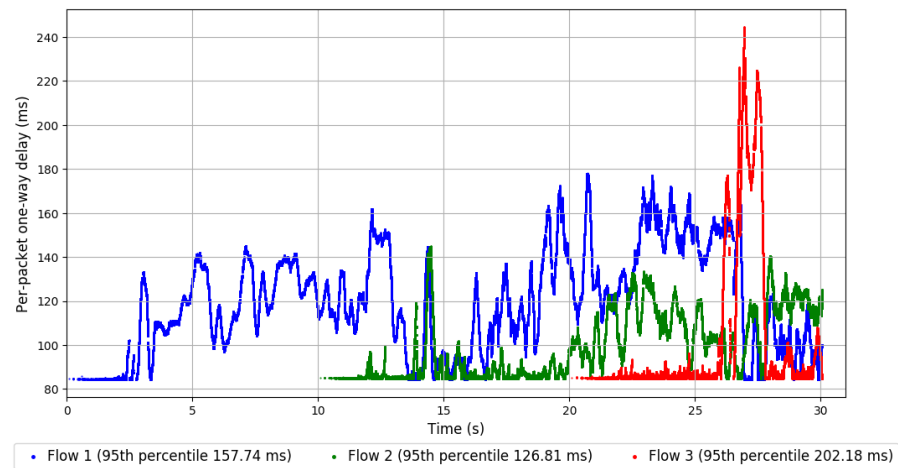
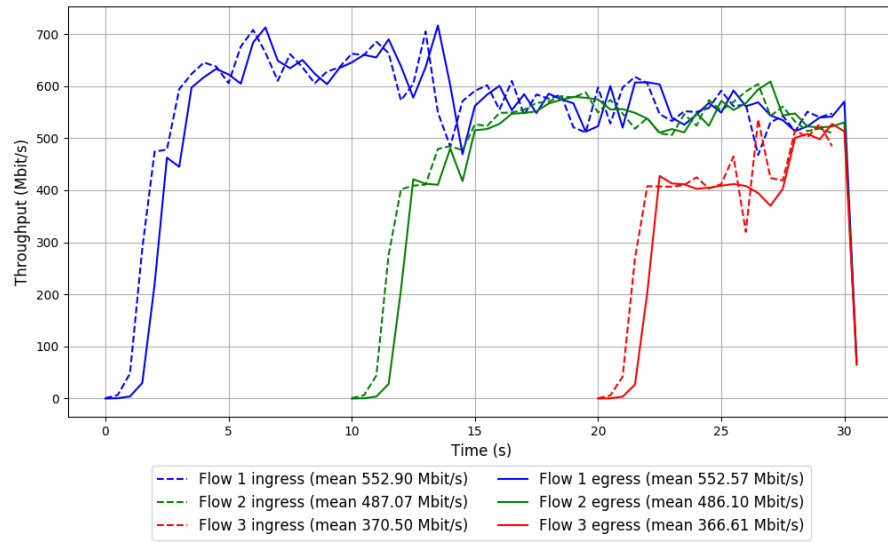
-- Flow 3:

Average throughput: 366.61 Mbit/s

95th percentile per-packet one-way delay: 202.175 ms

Loss rate: 1.05%

Run 2: Report of TCP Cubic — Data Link

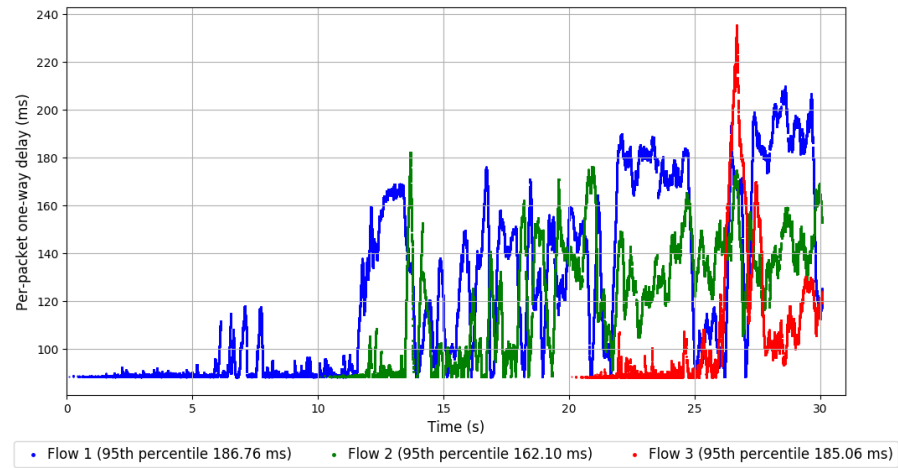
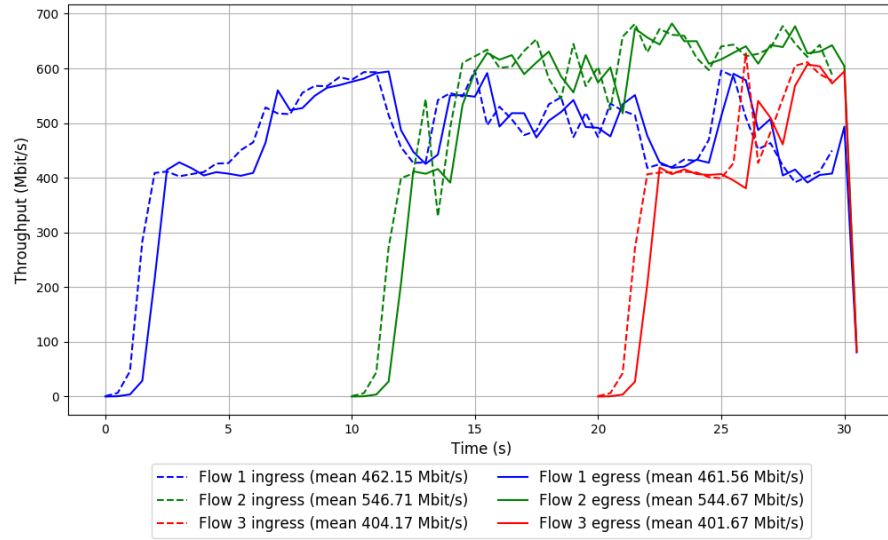


Run 3: Statistics of TCP Cubic

Start at: 2018-12-20 04:15:05
End at: 2018-12-20 04:15:35
Local clock offset: -1.993 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-12-20 06:33:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 957.96 Mbit/s
95th percentile per-packet one-way delay: 181.848 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 461.56 Mbit/s
95th percentile per-packet one-way delay: 186.757 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 544.67 Mbit/s
95th percentile per-packet one-way delay: 162.100 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 401.67 Mbit/s
95th percentile per-packet one-way delay: 185.055 ms
Loss rate: 0.61%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-12-20 04:48:50

End at: 2018-12-20 04:49:20

Local clock offset: -1.746 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2018-12-20 06:34:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 994.10 Mbit/s

95th percentile per-packet one-way delay: 176.045 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 507.27 Mbit/s

95th percentile per-packet one-way delay: 169.793 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 482.85 Mbit/s

95th percentile per-packet one-way delay: 189.781 ms

Loss rate: 0.40%

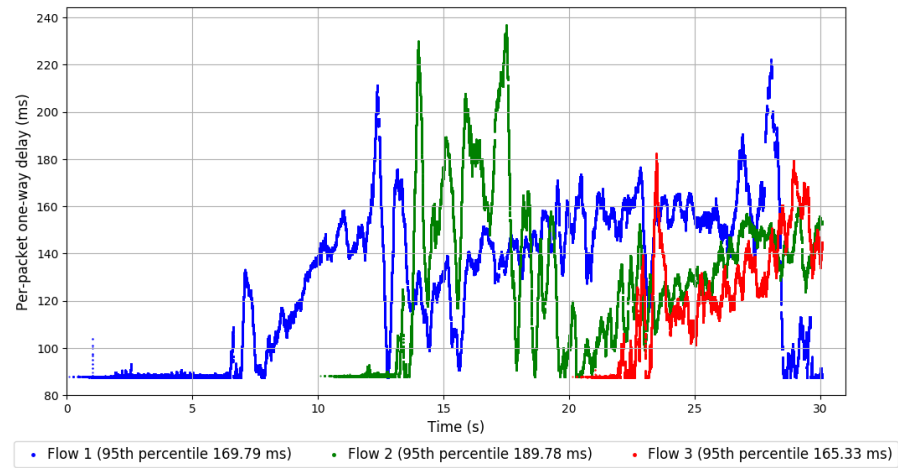
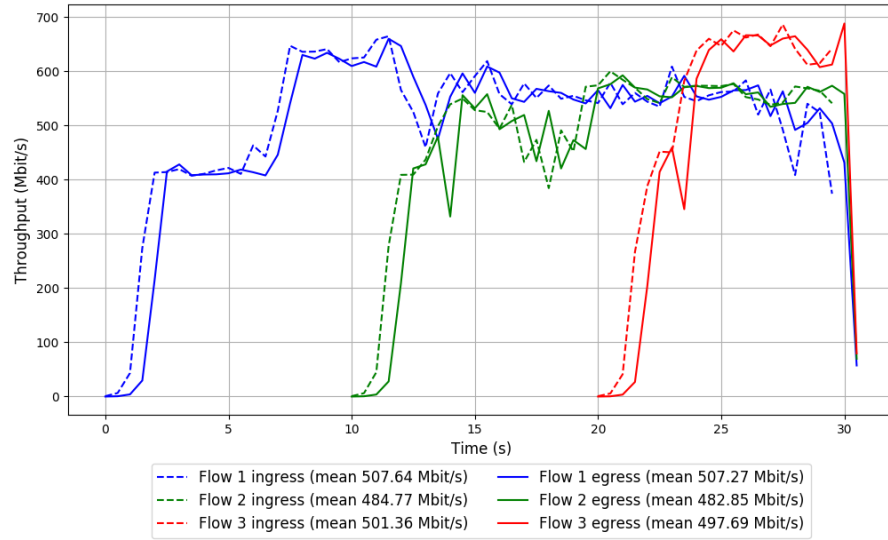
-- Flow 3:

Average throughput: 497.69 Mbit/s

95th percentile per-packet one-way delay: 165.331 ms

Loss rate: 0.73%

Run 4: Report of TCP Cubic — Data Link

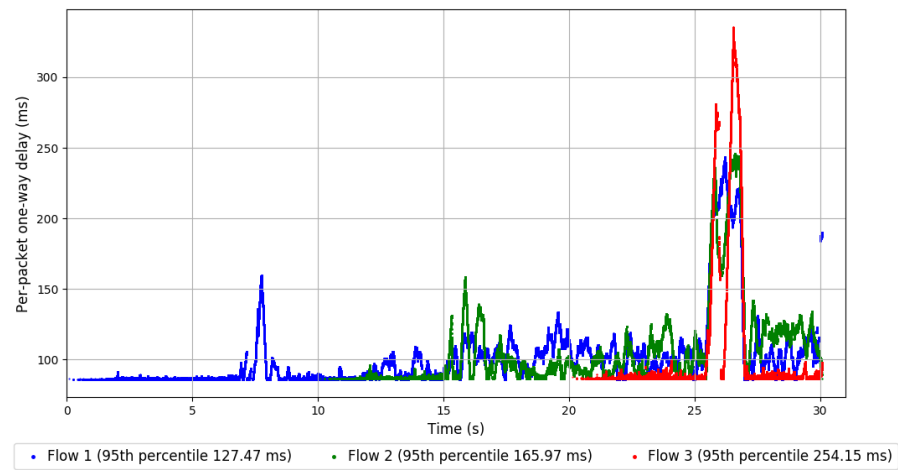
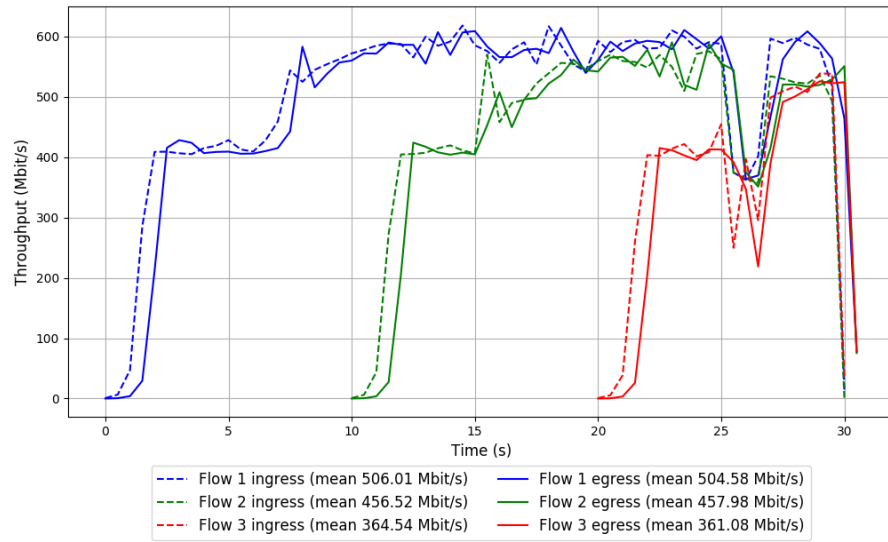


Run 5: Statistics of TCP Cubic

Start at: 2018-12-20 05:22:55
End at: 2018-12-20 05:23:25
Local clock offset: -0.17 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2018-12-20 06:34:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 929.41 Mbit/s
95th percentile per-packet one-way delay: 157.178 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 504.58 Mbit/s
95th percentile per-packet one-way delay: 127.471 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 457.98 Mbit/s
95th percentile per-packet one-way delay: 165.968 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 361.08 Mbit/s
95th percentile per-packet one-way delay: 254.148 ms
Loss rate: 1.52%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-12-20 03:10:11

End at: 2018-12-20 03:10:41

Local clock offset: 0.447 ms

Remote clock offset: 0.235 ms

Below is generated by plot.py at 2018-12-20 06:36:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 943.59 Mbit/s

95th percentile per-packet one-way delay: 95.443 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 594.75 Mbit/s

95th percentile per-packet one-way delay: 96.218 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 405.90 Mbit/s

95th percentile per-packet one-way delay: 95.124 ms

Loss rate: 0.04%

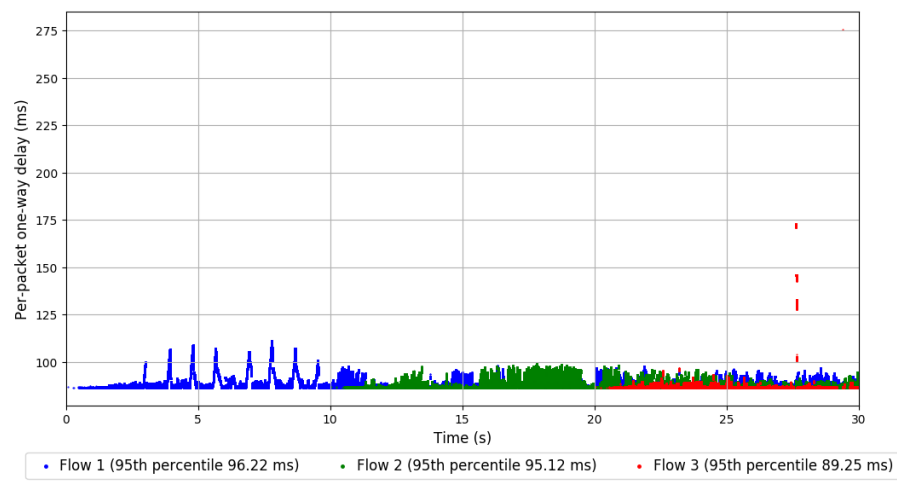
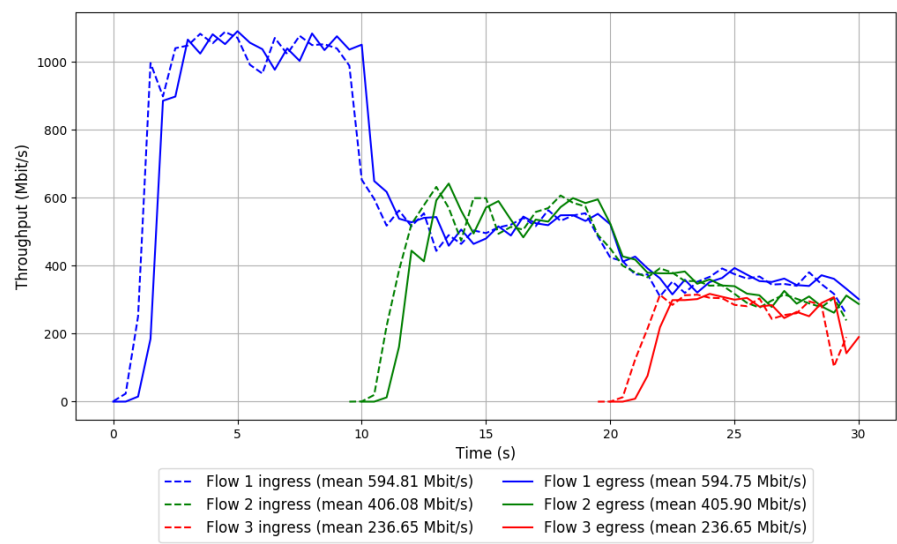
-- Flow 3:

Average throughput: 236.65 Mbit/s

95th percentile per-packet one-way delay: 89.254 ms

Loss rate: 0.00%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-12-20 03:44:46

End at: 2018-12-20 03:45:16

Local clock offset: -0.191 ms

Remote clock offset: 0.084 ms

Below is generated by plot.py at 2018-12-20 06:51:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 895.27 Mbit/s

95th percentile per-packet one-way delay: 115.760 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 574.51 Mbit/s

95th percentile per-packet one-way delay: 121.056 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 364.95 Mbit/s

95th percentile per-packet one-way delay: 93.224 ms

Loss rate: 0.00%

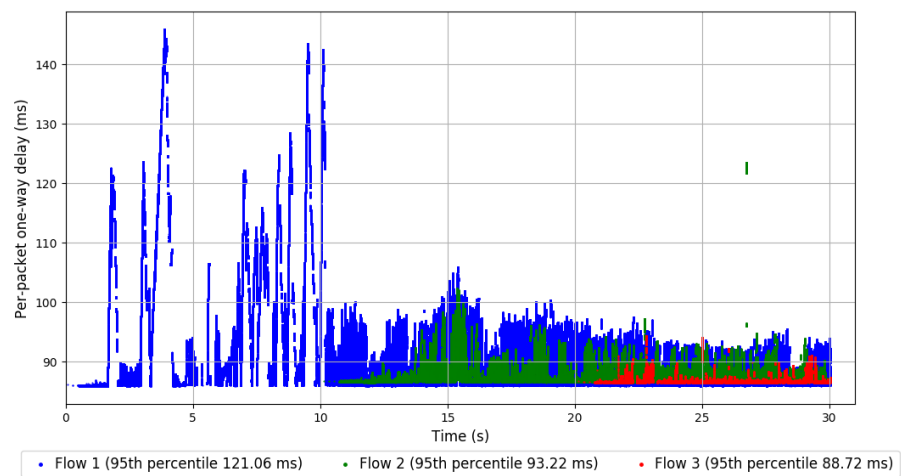
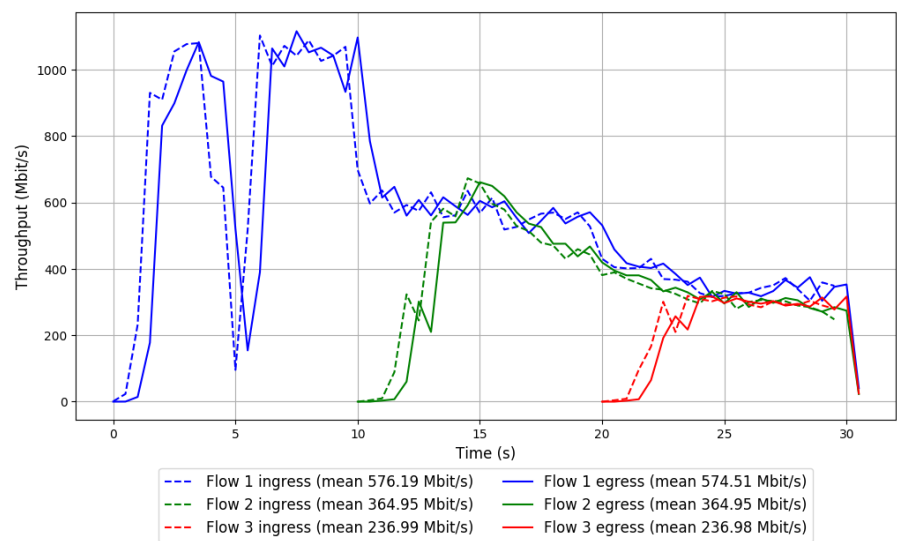
-- Flow 3:

Average throughput: 236.98 Mbit/s

95th percentile per-packet one-way delay: 88.715 ms

Loss rate: 0.00%

Run 2: Report of FillP — Data Link

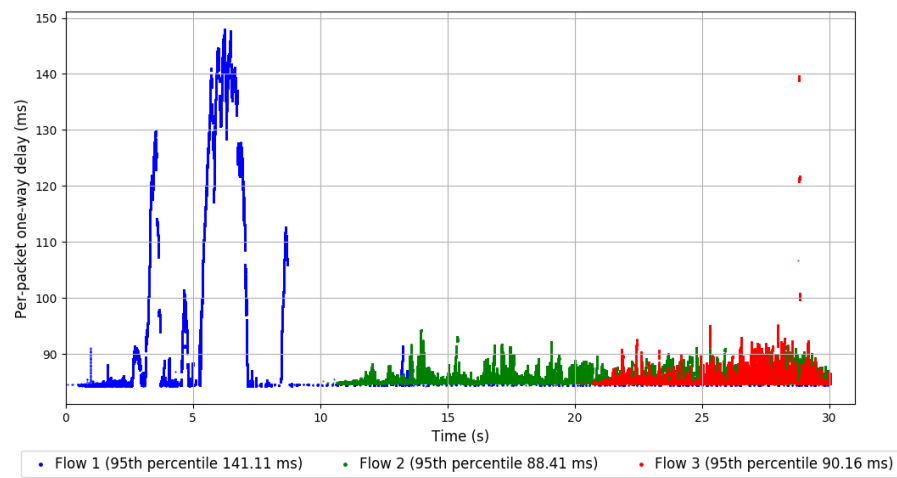
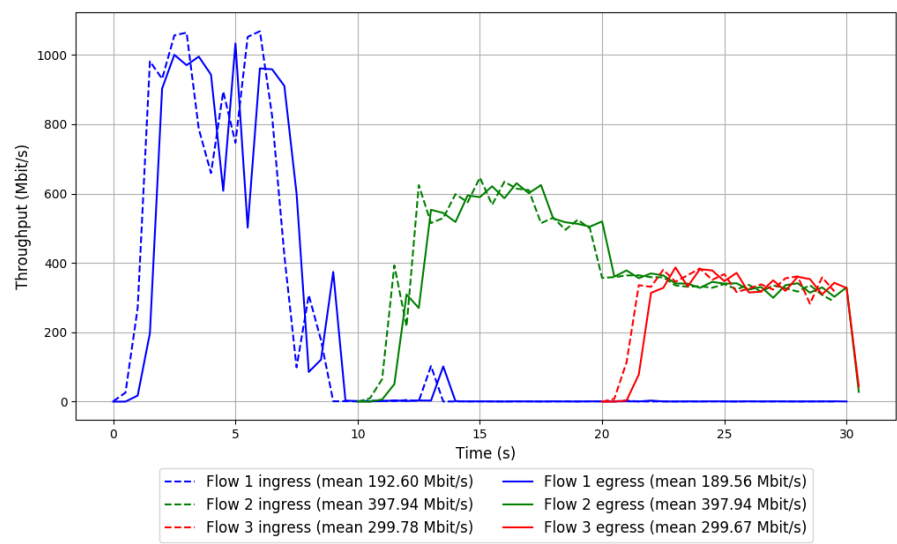


Run 3: Statistics of FillP

Start at: 2018-12-20 04:19:05
End at: 2018-12-20 04:19:35
Local clock offset: 1.486 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-12-20 06:51:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 553.40 Mbit/s
95th percentile per-packet one-way delay: 133.729 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 189.56 Mbit/s
95th percentile per-packet one-way delay: 141.108 ms
Loss rate: 1.58%
-- Flow 2:
Average throughput: 397.94 Mbit/s
95th percentile per-packet one-way delay: 88.411 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 299.67 Mbit/s
95th percentile per-packet one-way delay: 90.158 ms
Loss rate: 0.04%

Run 3: Report of FillP — Data Link

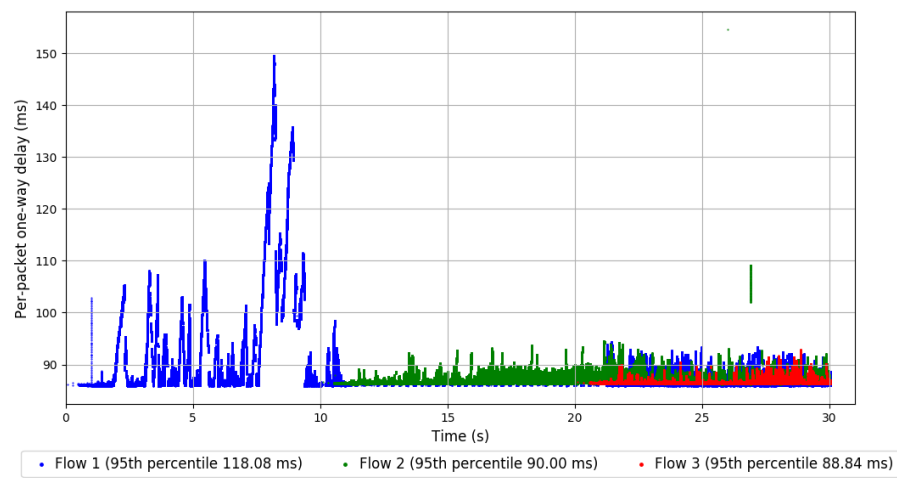
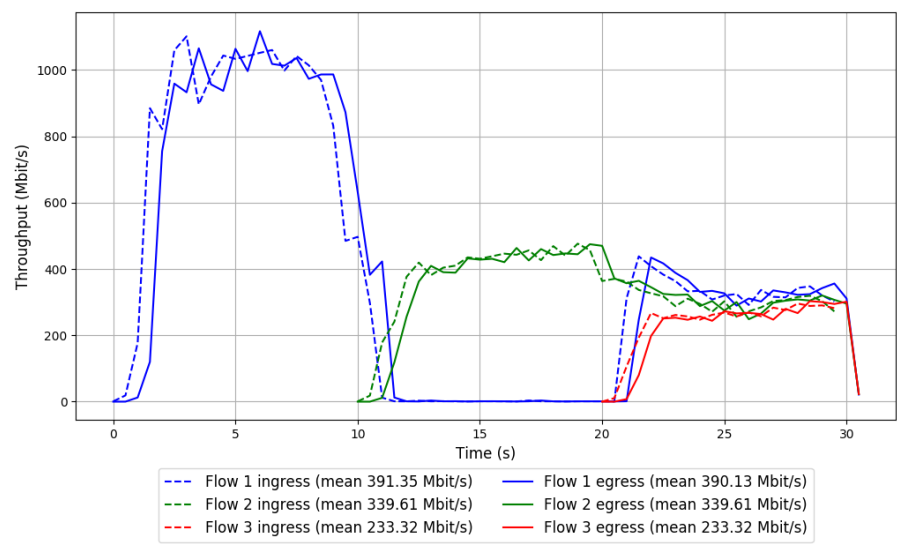


Run 4: Statistics of FillP

Start at: 2018-12-20 04:52:53
End at: 2018-12-20 04:53:23
Local clock offset: -0.084 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-12-20 06:51:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 693.17 Mbit/s
95th percentile per-packet one-way delay: 107.732 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 390.13 Mbit/s
95th percentile per-packet one-way delay: 118.076 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 339.61 Mbit/s
95th percentile per-packet one-way delay: 90.001 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 233.32 Mbit/s
95th percentile per-packet one-way delay: 88.837 ms
Loss rate: 0.00%

Run 4: Report of FillP — Data Link

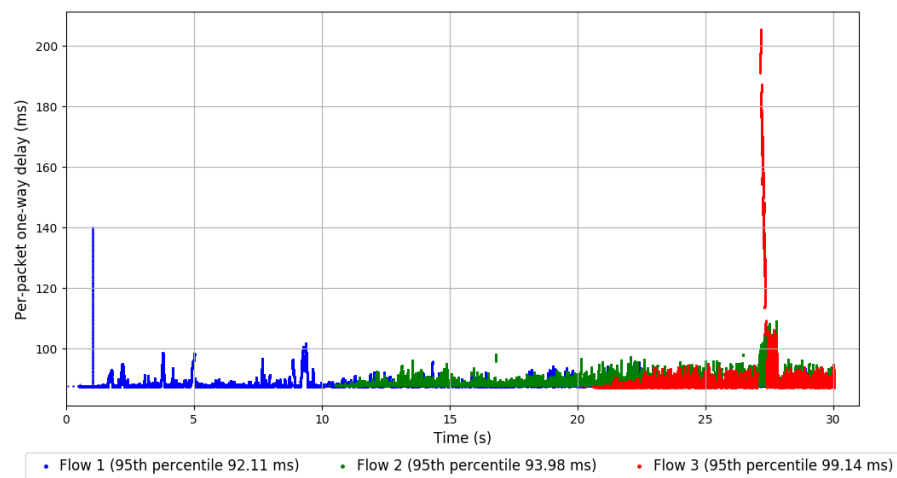
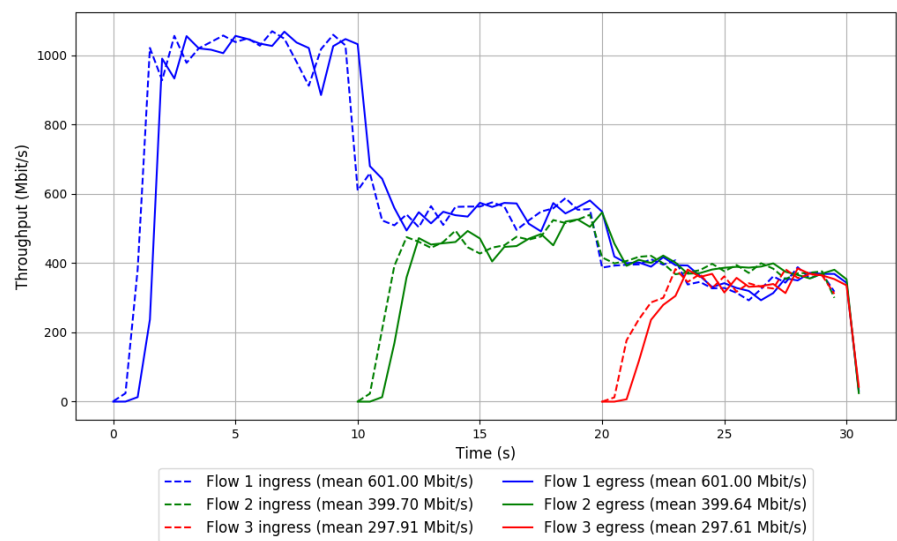


Run 5: Statistics of FillP

Start at: 2018-12-20 05:26:54
End at: 2018-12-20 05:27:24
Local clock offset: -1.516 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-12-20 06:53:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 965.40 Mbit/s
95th percentile per-packet one-way delay: 93.404 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 601.00 Mbit/s
95th percentile per-packet one-way delay: 92.114 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 399.64 Mbit/s
95th percentile per-packet one-way delay: 93.982 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 297.61 Mbit/s
95th percentile per-packet one-way delay: 99.143 ms
Loss rate: 0.06%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-12-20 02:55:00

End at: 2018-12-20 02:55:30

Local clock offset: 0.85 ms

Remote clock offset: 0.202 ms

Below is generated by plot.py at 2018-12-20 06:53:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 858.21 Mbit/s

95th percentile per-packet one-way delay: 91.638 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 536.60 Mbit/s

95th percentile per-packet one-way delay: 94.527 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 364.17 Mbit/s

95th percentile per-packet one-way delay: 89.139 ms

Loss rate: 0.00%

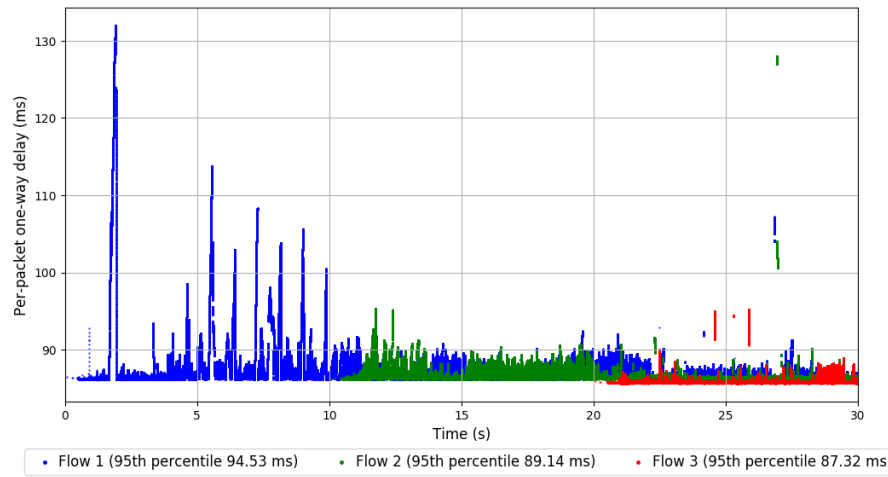
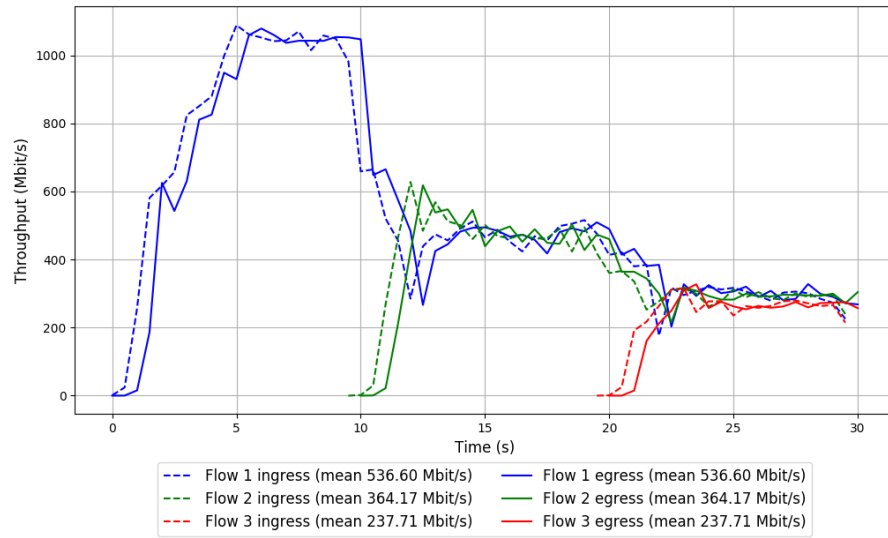
-- Flow 3:

Average throughput: 237.71 Mbit/s

95th percentile per-packet one-way delay: 87.324 ms

Loss rate: 0.00%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-12-20 03:29:17

End at: 2018-12-20 03:29:47

Local clock offset: -1.404 ms

Remote clock offset: 0.057 ms

Below is generated by plot.py at 2018-12-20 06:53:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 900.64 Mbit/s

95th percentile per-packet one-way delay: 95.158 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 580.09 Mbit/s

95th percentile per-packet one-way delay: 99.414 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 357.21 Mbit/s

95th percentile per-packet one-way delay: 91.012 ms

Loss rate: 0.01%

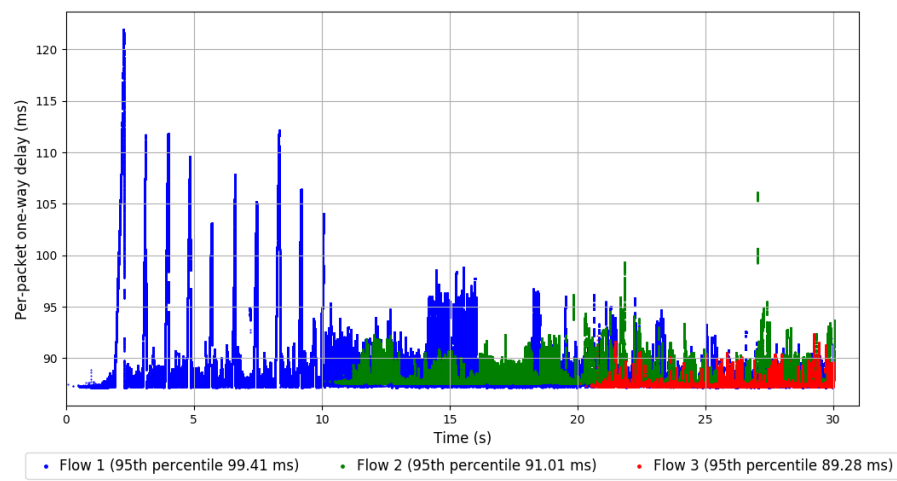
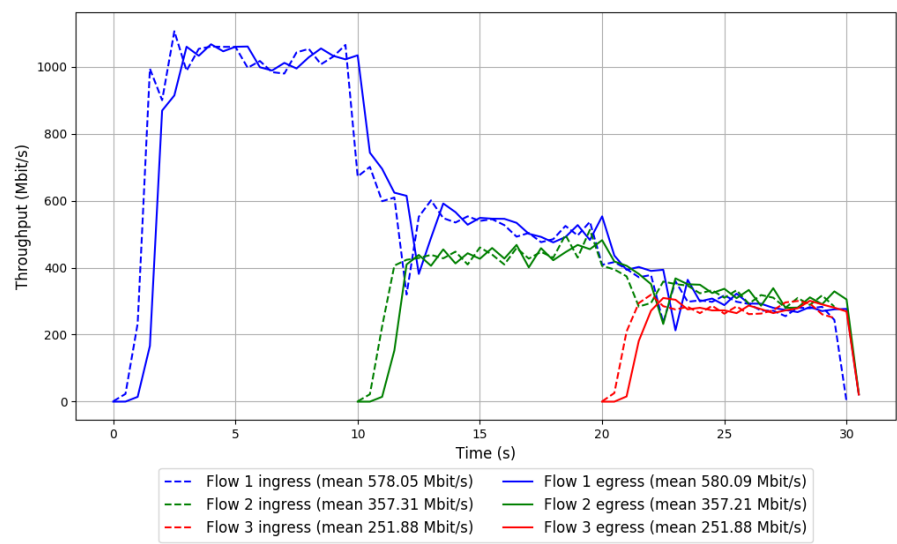
-- Flow 3:

Average throughput: 251.88 Mbit/s

95th percentile per-packet one-way delay: 89.281 ms

Loss rate: 0.00%

Run 2: Report of FillP-Sheep — Data Link

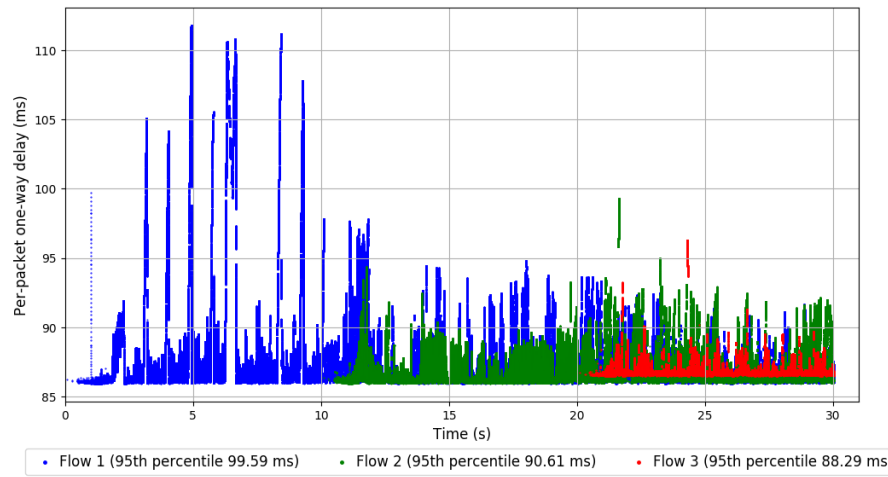
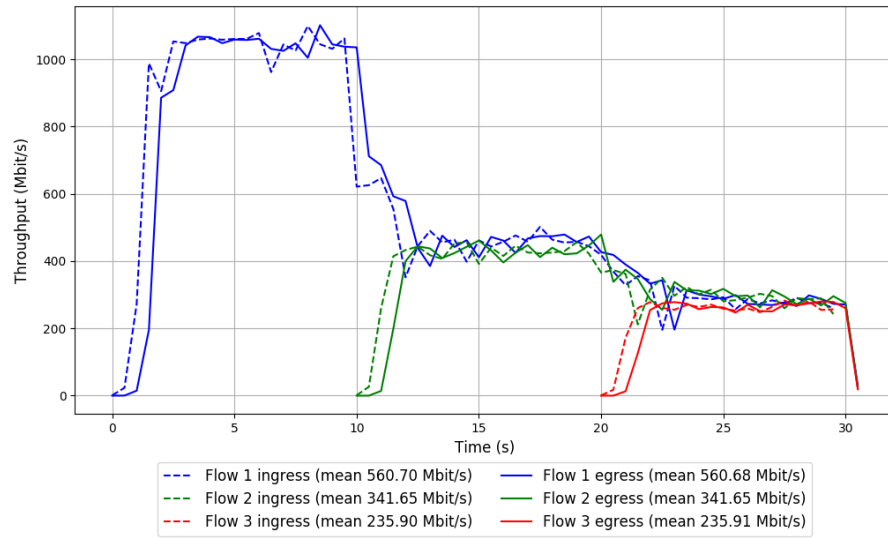


Run 3: Statistics of FillP-Sheep

Start at: 2018-12-20 04:03:51
End at: 2018-12-20 04:04:21
Local clock offset: -0.309 ms
Remote clock offset: -0.043 ms

```
# Below is generated by plot.py at 2018-12-20 06:53:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 866.16 Mbit/s
95th percentile per-packet one-way delay: 94.014 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 560.68 Mbit/s
95th percentile per-packet one-way delay: 99.588 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 341.65 Mbit/s
95th percentile per-packet one-way delay: 90.612 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 235.91 Mbit/s
95th percentile per-packet one-way delay: 88.290 ms
Loss rate: 0.00%
```

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-12-20 04:37:41

End at: 2018-12-20 04:38:11

Local clock offset: 1.659 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-12-20 06:53:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 400.32 Mbit/s

95th percentile per-packet one-way delay: 89.007 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 85.03 Mbit/s

95th percentile per-packet one-way delay: 88.757 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 345.66 Mbit/s

95th percentile per-packet one-way delay: 88.514 ms

Loss rate: 0.00%

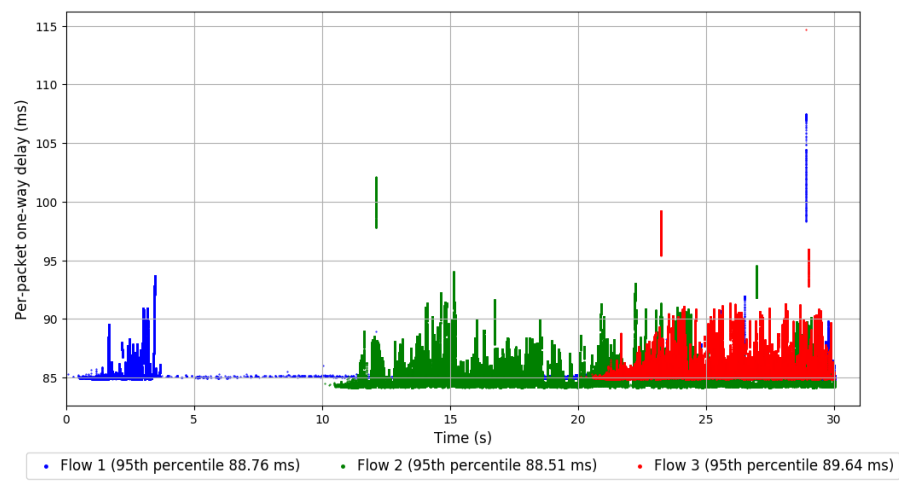
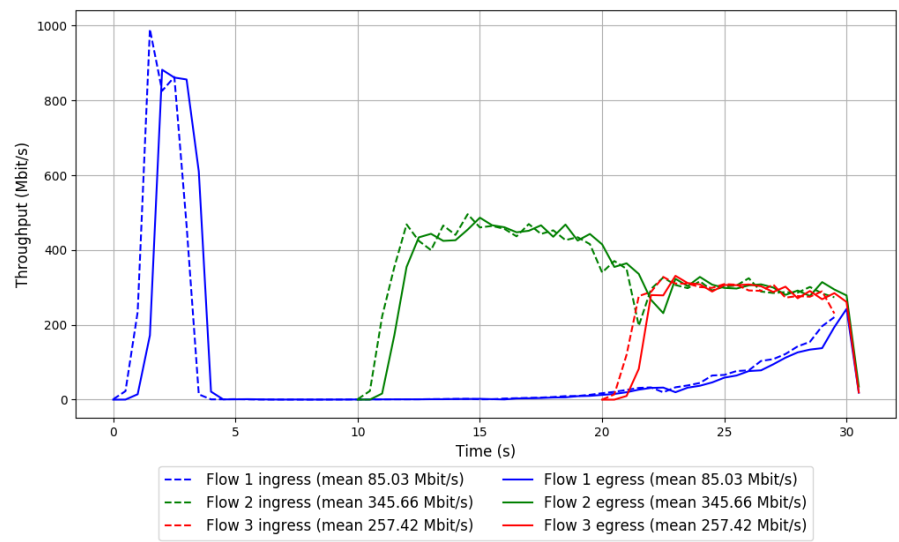
-- Flow 3:

Average throughput: 257.42 Mbit/s

95th percentile per-packet one-way delay: 89.641 ms

Loss rate: 0.00%

Run 4: Report of FillP-Sheep — Data Link

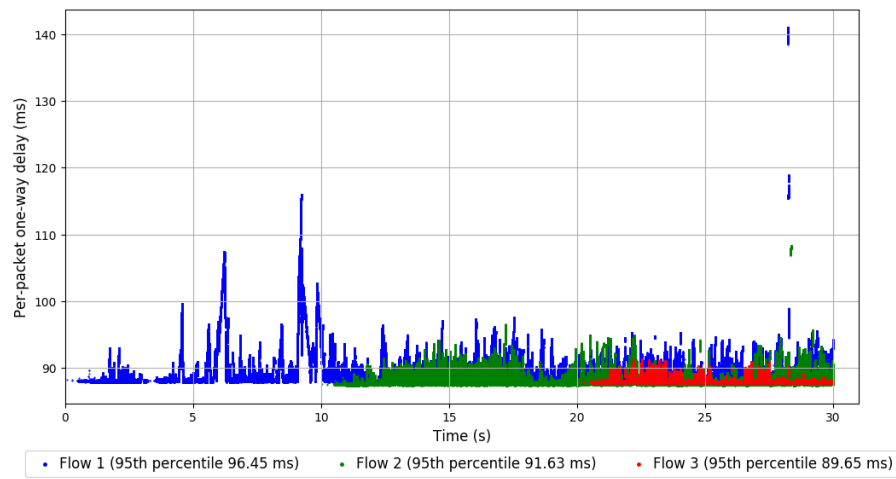
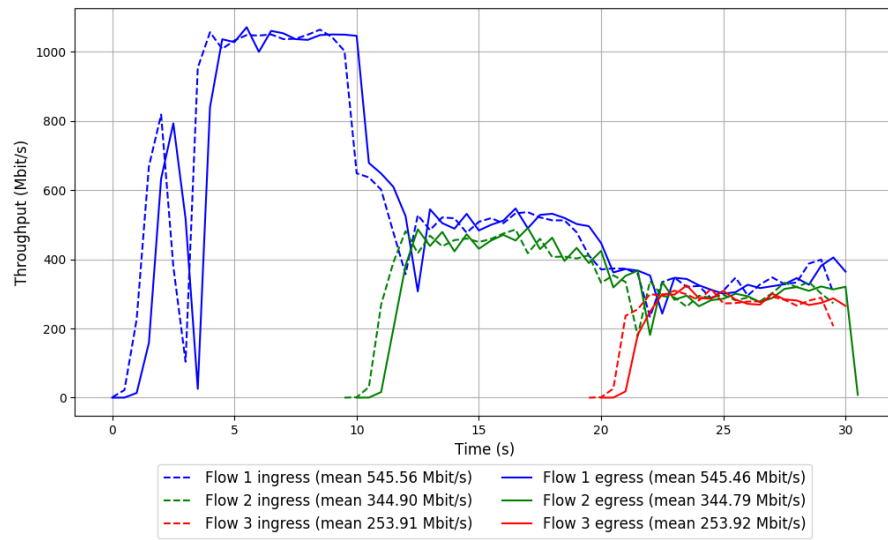


Run 5: Statistics of FillP-Sheep

Start at: 2018-12-20 05:11:39
End at: 2018-12-20 05:12:09
Local clock offset: -1.731 ms
Remote clock offset: -0.032 ms

Below is generated by plot.py at 2018-12-20 07:02:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 859.42 Mbit/s
95th percentile per-packet one-way delay: 94.270 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 545.46 Mbit/s
95th percentile per-packet one-way delay: 96.451 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 344.79 Mbit/s
95th percentile per-packet one-way delay: 91.634 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 253.92 Mbit/s
95th percentile per-packet one-way delay: 89.650 ms
Loss rate: 0.00%

Run 5: Report of FillP-Sheep — Data Link

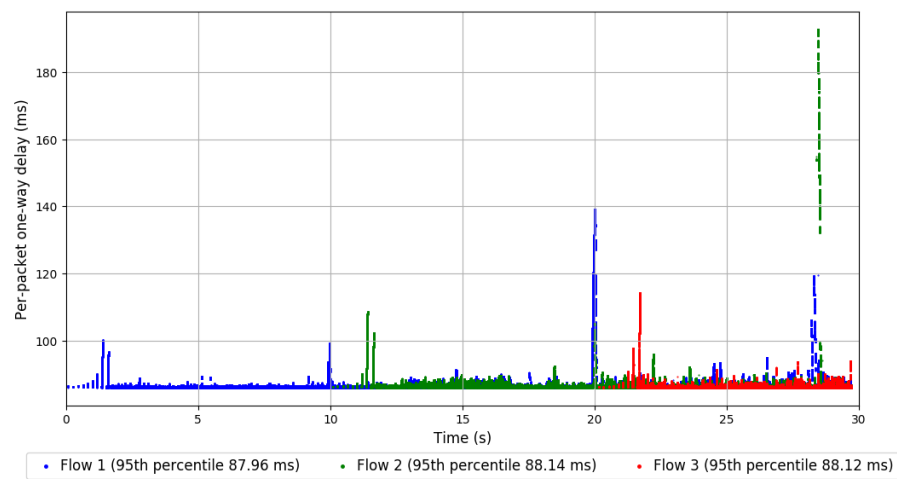
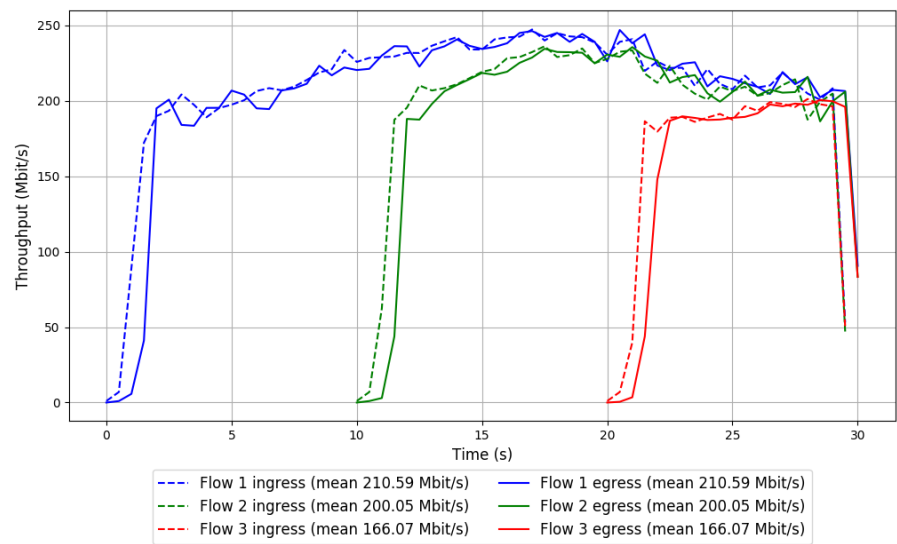


```
Run 1: Statistics of Indigo

Start at: 2018-12-20 03:08:17
End at: 2018-12-20 03:08:47
Local clock offset: 1.015 ms
Remote clock offset: 0.269 ms

# Below is generated by plot.py at 2018-12-20 07:02:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 396.59 Mbit/s
95th percentile per-packet one-way delay: 88.052 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 210.59 Mbit/s
95th percentile per-packet one-way delay: 87.958 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 200.05 Mbit/s
95th percentile per-packet one-way delay: 88.141 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 166.07 Mbit/s
95th percentile per-packet one-way delay: 88.116 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-12-20 03:42:52

End at: 2018-12-20 03:43:22

Local clock offset: -0.094 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2018-12-20 07:02:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 375.69 Mbit/s

95th percentile per-packet one-way delay: 88.620 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 195.53 Mbit/s

95th percentile per-packet one-way delay: 88.940 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 207.70 Mbit/s

95th percentile per-packet one-way delay: 88.123 ms

Loss rate: 0.00%

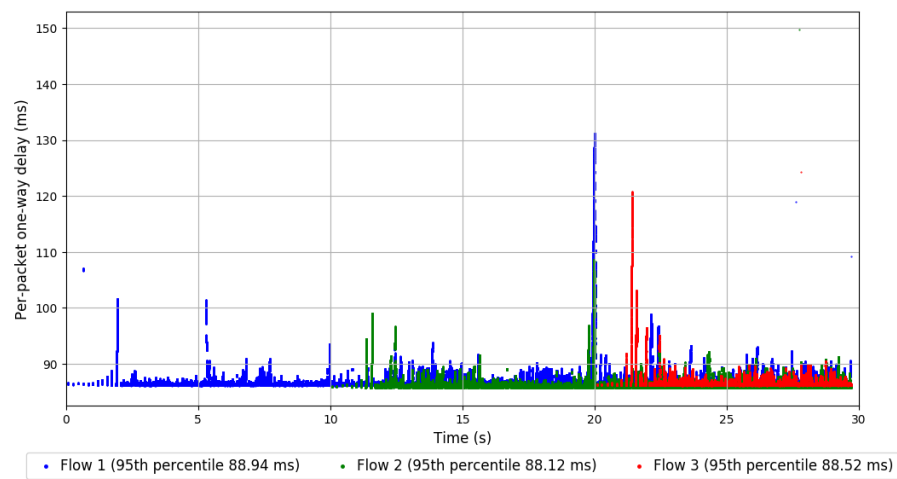
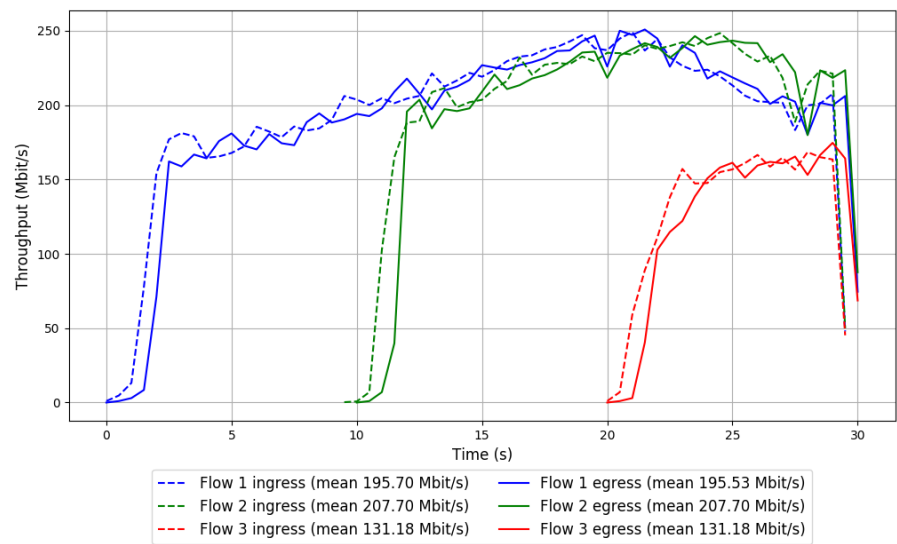
-- Flow 3:

Average throughput: 131.18 Mbit/s

95th percentile per-packet one-way delay: 88.518 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

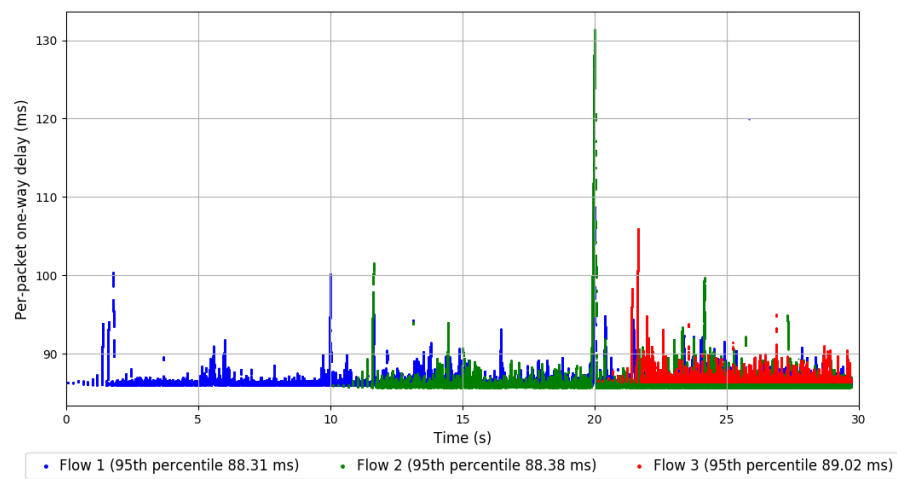
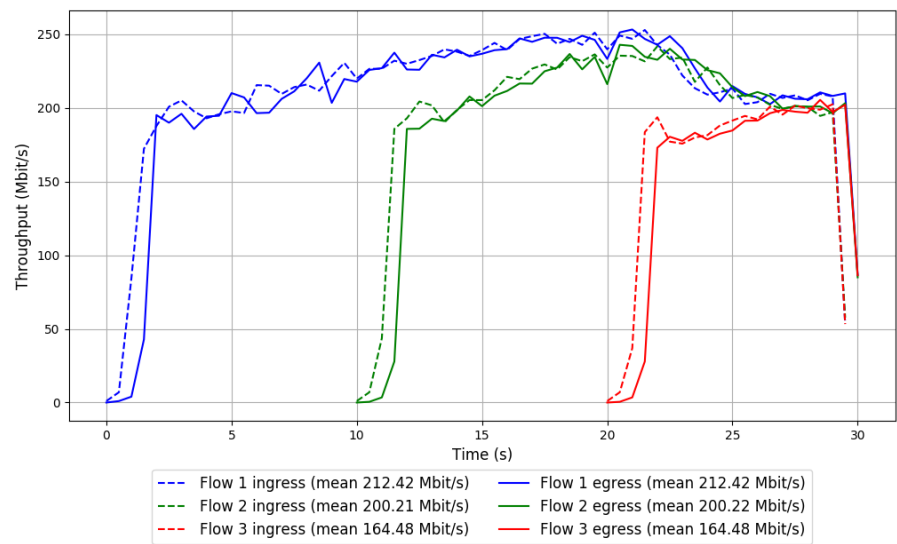


Run 3: Statistics of Indigo

Start at: 2018-12-20 04:17:11
End at: 2018-12-20 04:17:41
Local clock offset: -0.019 ms
Remote clock offset: -0.042 ms

Below is generated by plot.py at 2018-12-20 07:04:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 398.12 Mbit/s
95th percentile per-packet one-way delay: 88.467 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 212.42 Mbit/s
95th percentile per-packet one-way delay: 88.311 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 200.22 Mbit/s
95th percentile per-packet one-way delay: 88.380 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 164.48 Mbit/s
95th percentile per-packet one-way delay: 89.018 ms
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

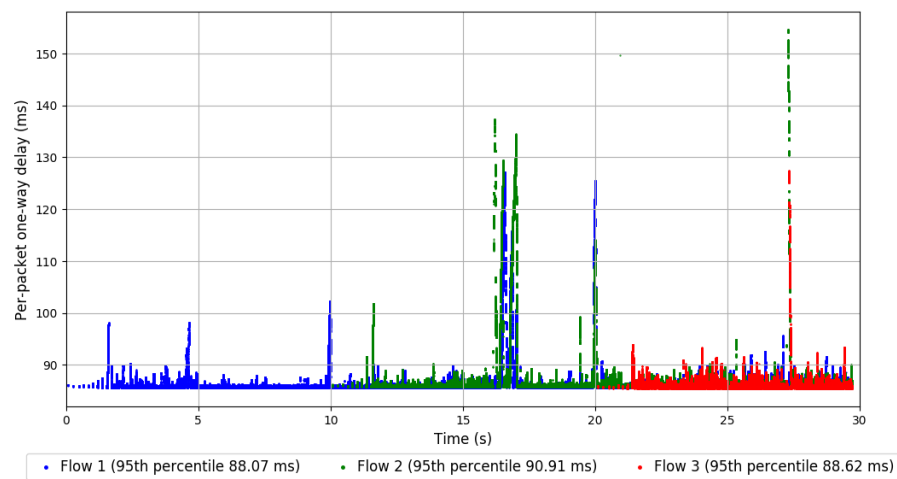
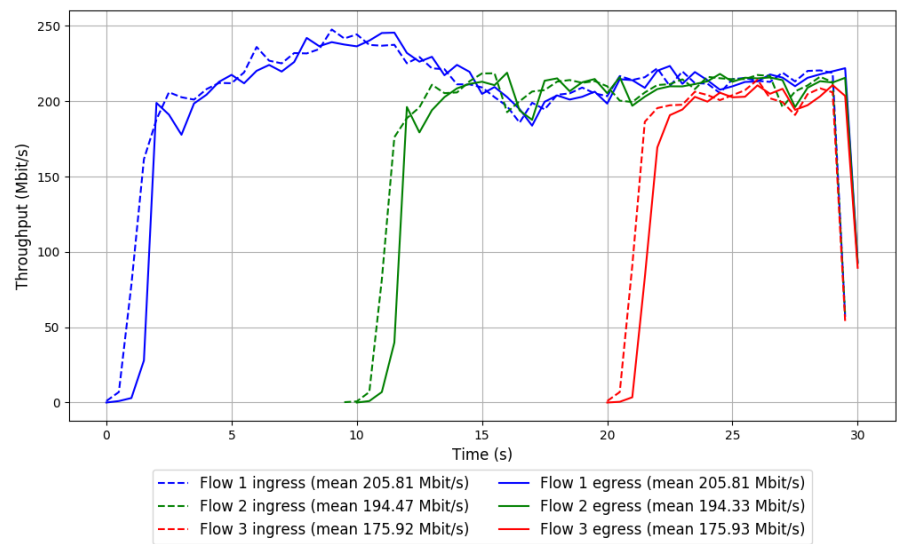


Run 4: Statistics of Indigo

Start at: 2018-12-20 04:50:59
End at: 2018-12-20 04:51:29
Local clock offset: 0.428 ms
Remote clock offset: -0.032 ms

Below is generated by plot.py at 2018-12-20 07:04:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 391.58 Mbit/s
95th percentile per-packet one-way delay: 88.640 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 205.81 Mbit/s
95th percentile per-packet one-way delay: 88.073 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 194.33 Mbit/s
95th percentile per-packet one-way delay: 90.907 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 175.93 Mbit/s
95th percentile per-packet one-way delay: 88.625 ms
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

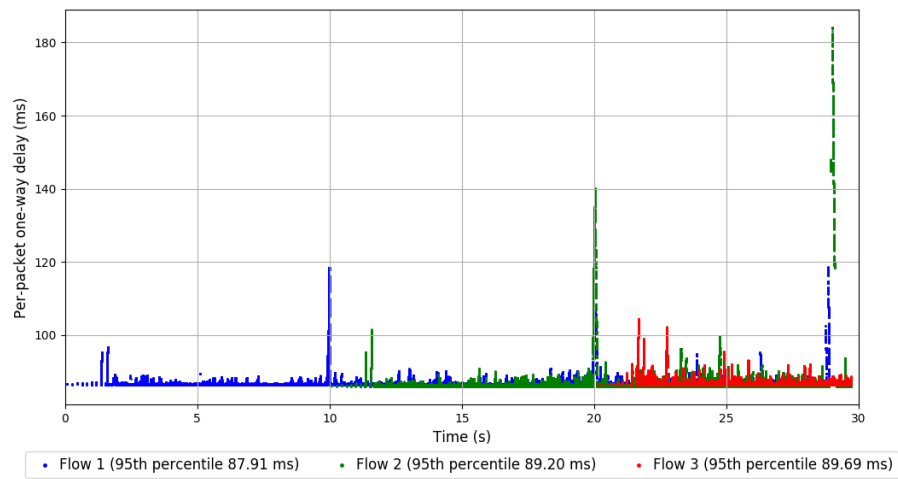
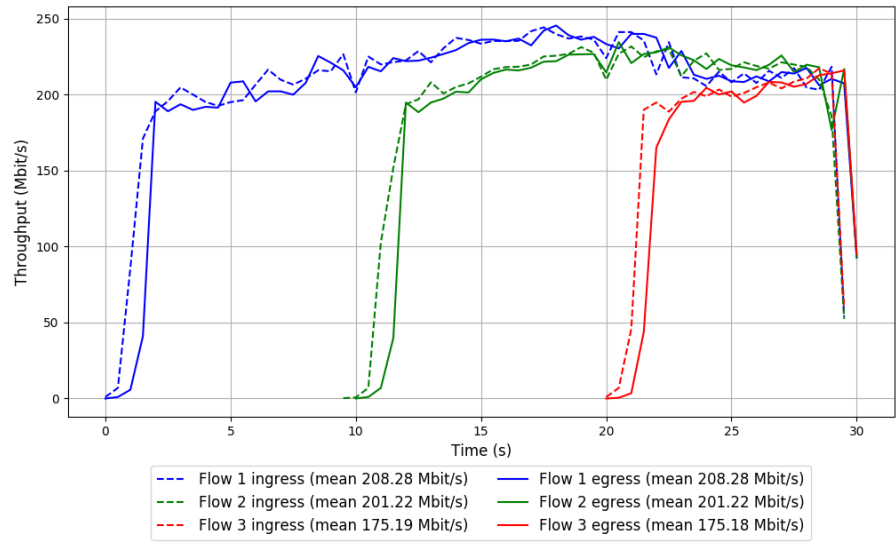


Run 5: Statistics of Indigo

Start at: 2018-12-20 05:24:59
End at: 2018-12-20 05:25:29
Local clock offset: -0.245 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-12-20 07:05:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 398.20 Mbit/s
95th percentile per-packet one-way delay: 88.499 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 208.28 Mbit/s
95th percentile per-packet one-way delay: 87.907 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 201.22 Mbit/s
95th percentile per-packet one-way delay: 89.204 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 175.18 Mbit/s
95th percentile per-packet one-way delay: 89.692 ms
Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2018-12-20 03:12:08

End at: 2018-12-20 03:12:38

Local clock offset: 0.022 ms

Remote clock offset: 0.177 ms

Below is generated by plot.py at 2018-12-20 07:11:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 1025.52 Mbit/s

95th percentile per-packet one-way delay: 138.379 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 574.32 Mbit/s

95th percentile per-packet one-way delay: 140.732 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 524.01 Mbit/s

95th percentile per-packet one-way delay: 132.387 ms

Loss rate: 0.15%

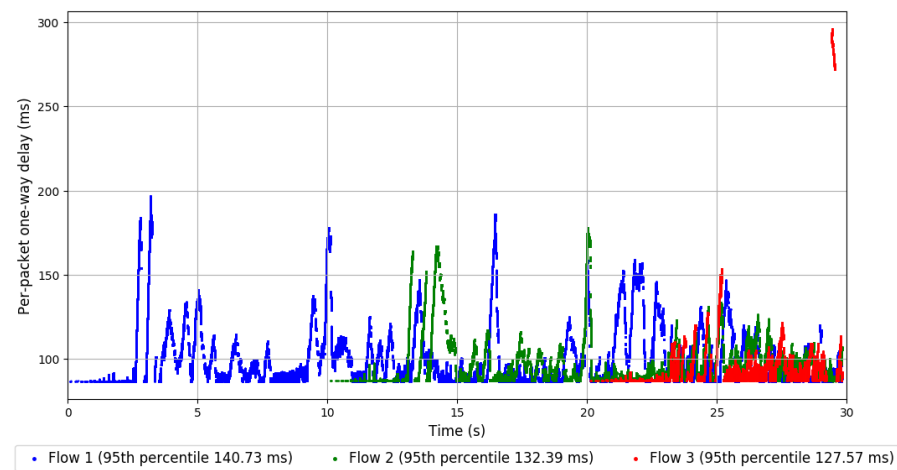
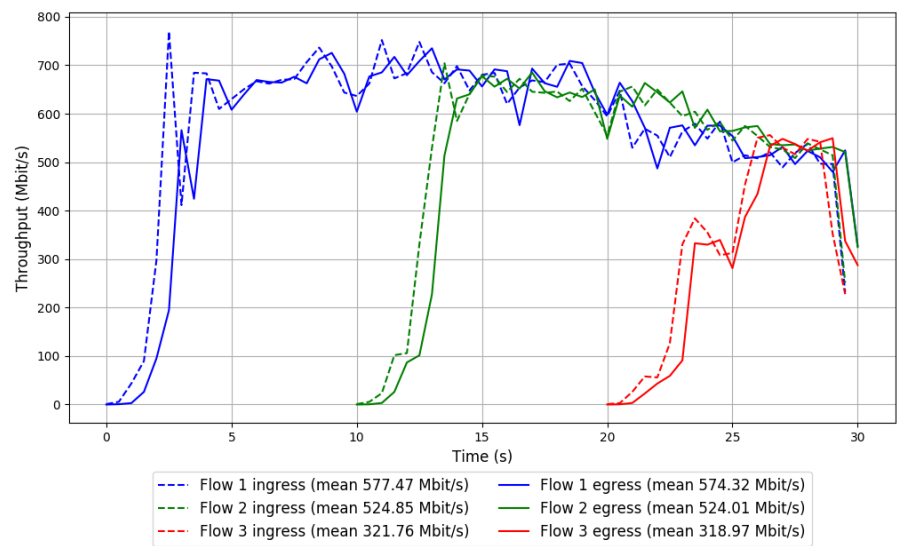
-- Flow 3:

Average throughput: 318.97 Mbit/s

95th percentile per-packet one-way delay: 127.569 ms

Loss rate: 0.86%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2018-12-20 03:46:41

End at: 2018-12-20 03:47:11

Local clock offset: 1.625 ms

Remote clock offset: 0.017 ms

Below is generated by plot.py at 2018-12-20 07:11:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 1003.07 Mbit/s

95th percentile per-packet one-way delay: 130.606 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 556.33 Mbit/s

95th percentile per-packet one-way delay: 133.124 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 495.75 Mbit/s

95th percentile per-packet one-way delay: 114.581 ms

Loss rate: 0.09%

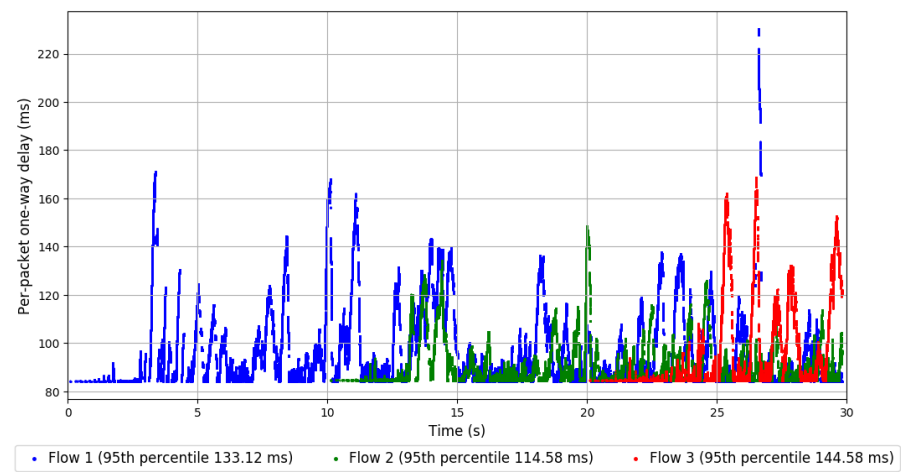
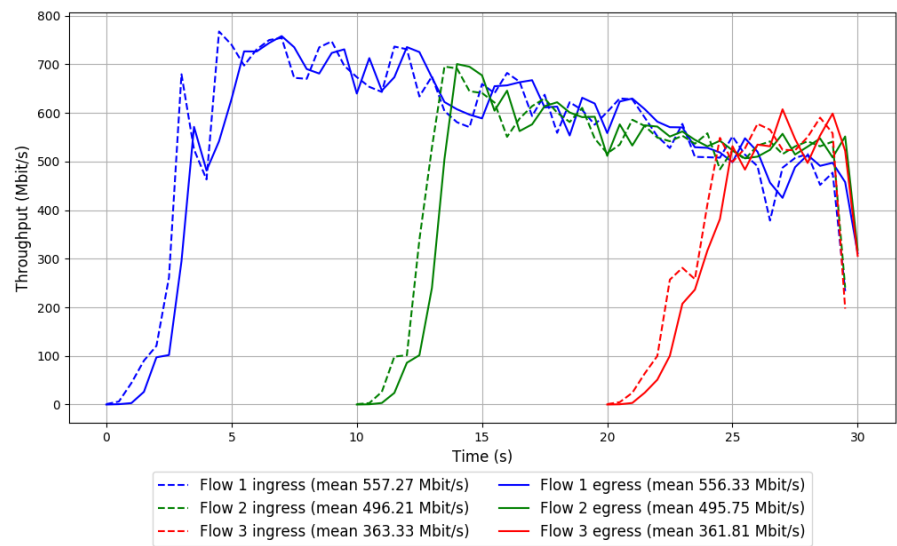
-- Flow 3:

Average throughput: 361.81 Mbit/s

95th percentile per-packet one-way delay: 144.582 ms

Loss rate: 0.41%

Run 2: Report of Indigo-MusesD — Data Link

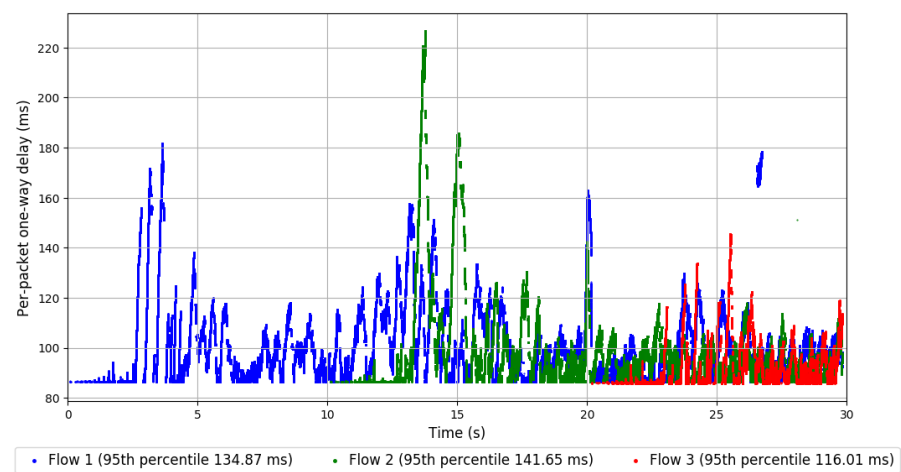
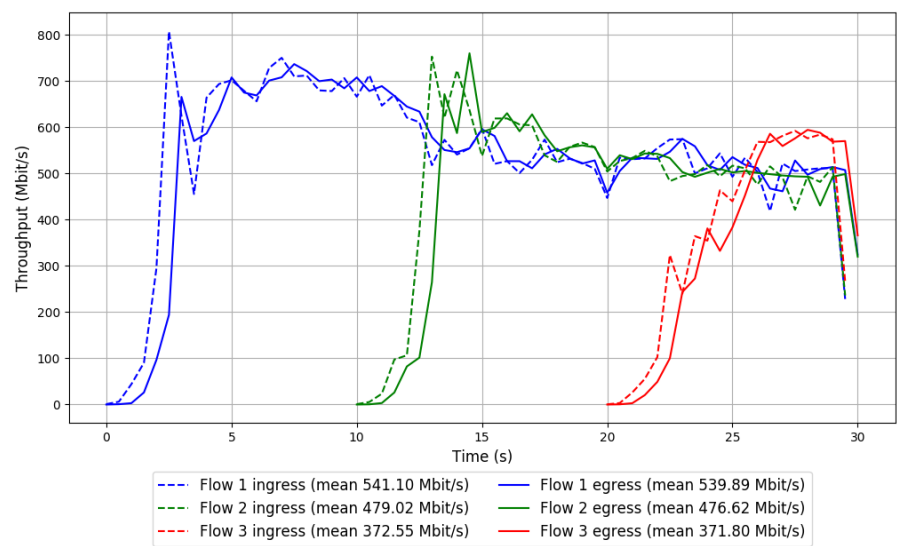


Run 3: Statistics of Indigo-MusesD

Start at: 2018-12-20 04:20:47
End at: 2018-12-20 04:21:17
Local clock offset: -0.156 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2018-12-20 07:17:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 976.44 Mbit/s
95th percentile per-packet one-way delay: 132.741 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 539.89 Mbit/s
95th percentile per-packet one-way delay: 134.873 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 476.62 Mbit/s
95th percentile per-packet one-way delay: 141.651 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 371.80 Mbit/s
95th percentile per-packet one-way delay: 116.009 ms
Loss rate: 0.20%

Run 3: Report of Indigo-MusesD — Data Link

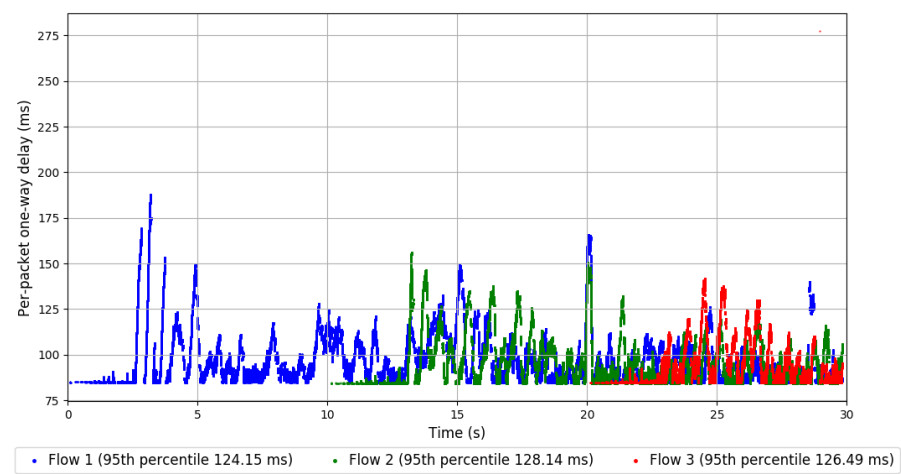
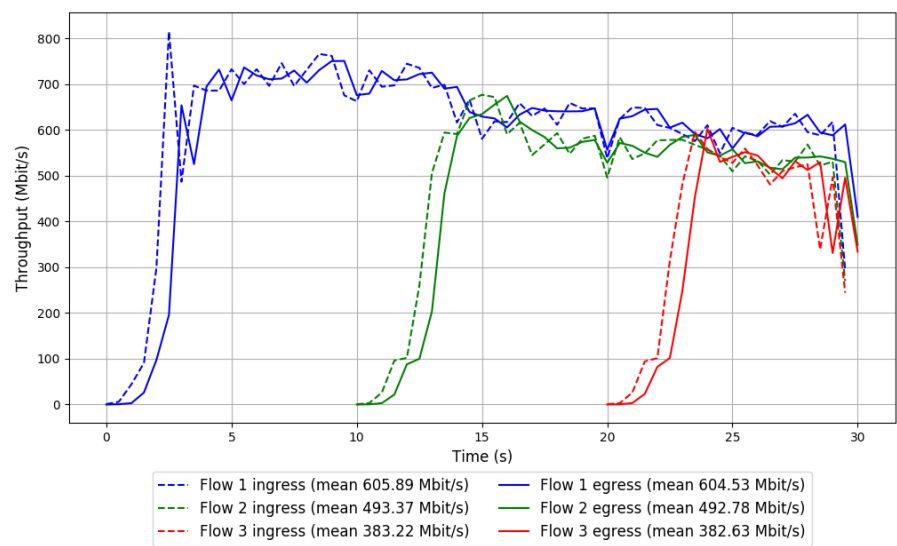


Run 4: Statistics of Indigo-MusesD

Start at: 2018-12-20 04:54:39
End at: 2018-12-20 04:55:09
Local clock offset: 1.522 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-12-20 07:20:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 1055.41 Mbit/s
95th percentile per-packet one-way delay: 126.093 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 604.53 Mbit/s
95th percentile per-packet one-way delay: 124.148 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 492.78 Mbit/s
95th percentile per-packet one-way delay: 128.139 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 382.63 Mbit/s
95th percentile per-packet one-way delay: 126.488 ms
Loss rate: 0.15%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2018-12-20 05:28:53

End at: 2018-12-20 05:29:23

Local clock offset: 2.795 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2018-12-20 07:21:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 990.72 Mbit/s

95th percentile per-packet one-way delay: 127.770 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 570.73 Mbit/s

95th percentile per-packet one-way delay: 119.078 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 468.58 Mbit/s

95th percentile per-packet one-way delay: 139.848 ms

Loss rate: 0.00%

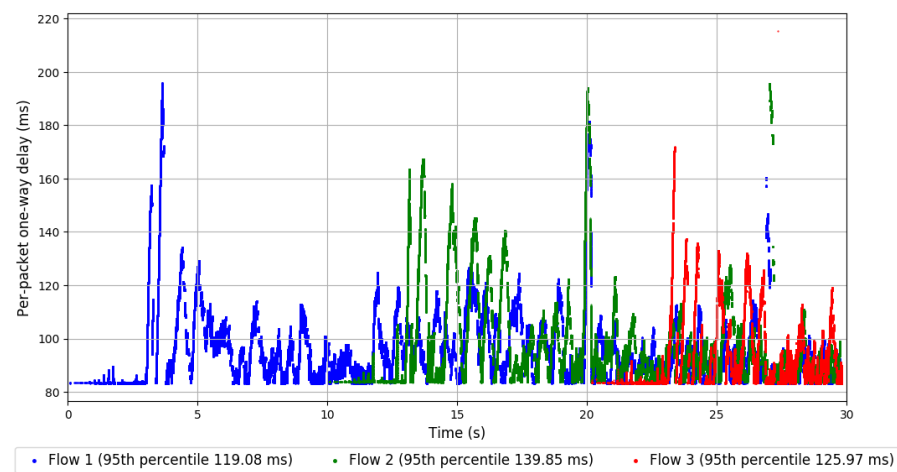
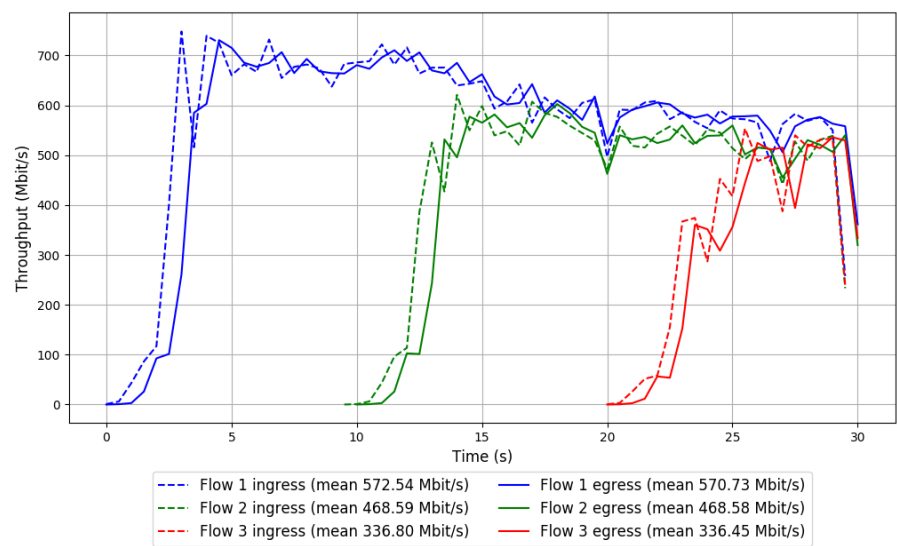
-- Flow 3:

Average throughput: 336.45 Mbit/s

95th percentile per-packet one-way delay: 125.972 ms

Loss rate: 0.07%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

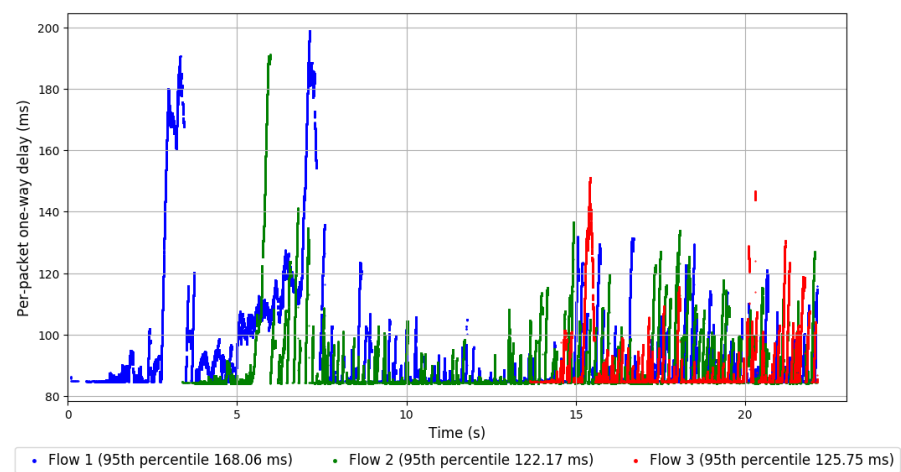
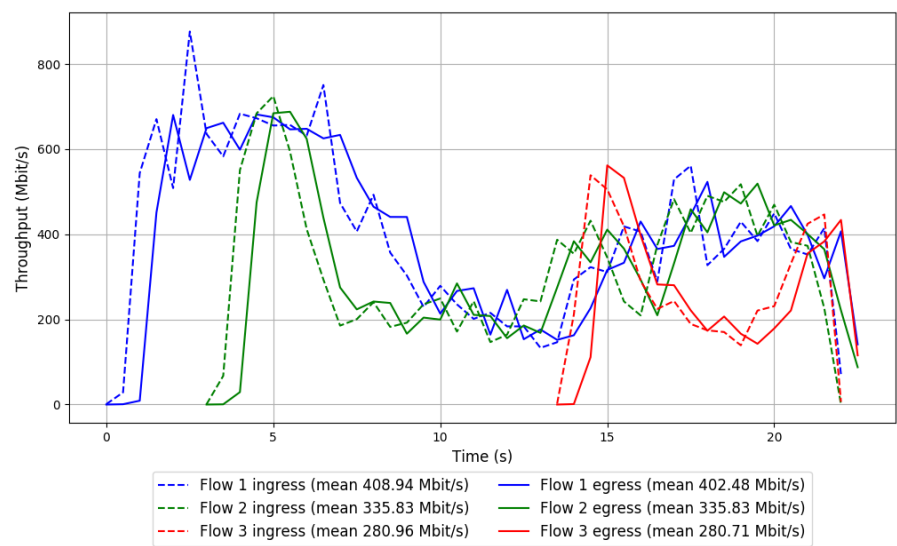
Start at: 2018-12-20 03:04:22

End at: 2018-12-20 03:04:52

Local clock offset: 2.461 ms

Remote clock offset: 0.252 ms

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2018-12-20 03:38:50

End at: 2018-12-20 03:39:20

Local clock offset: -1.347 ms

Remote clock offset: 0.076 ms

Below is generated by plot.py at 2018-12-20 07:21:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 734.76 Mbit/s

95th percentile per-packet one-way delay: 136.109 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 363.39 Mbit/s

95th percentile per-packet one-way delay: 136.837 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 375.46 Mbit/s

95th percentile per-packet one-way delay: 135.853 ms

Loss rate: 0.39%

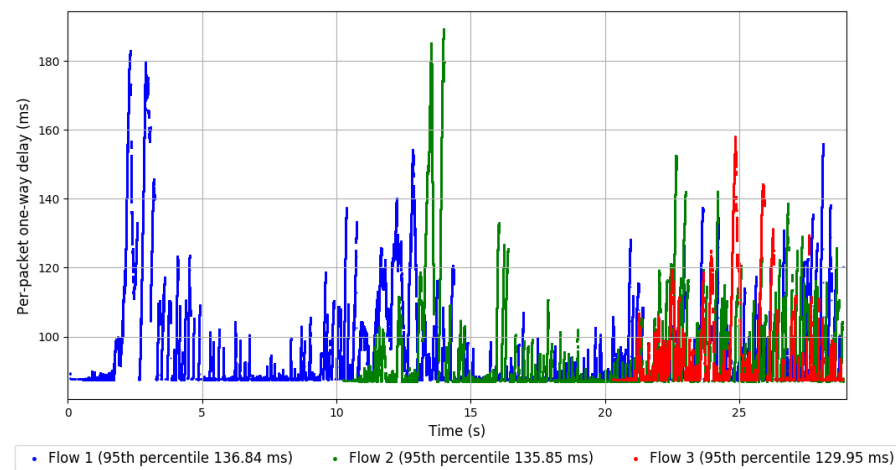
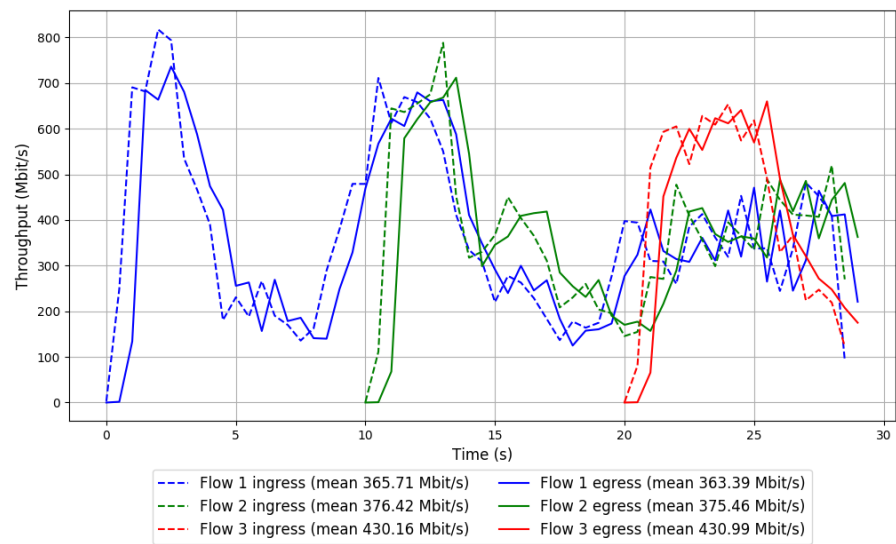
-- Flow 3:

Average throughput: 430.99 Mbit/s

95th percentile per-packet one-way delay: 129.952 ms

Loss rate: 0.09%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2018-12-20 04:13:02

End at: 2018-12-20 04:13:32

Local clock offset: 0.161 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-12-20 07:23:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 961.39 Mbit/s

95th percentile per-packet one-way delay: 189.787 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 641.87 Mbit/s

95th percentile per-packet one-way delay: 191.739 ms

Loss rate: 2.19%

-- Flow 2:

Average throughput: 359.71 Mbit/s

95th percentile per-packet one-way delay: 137.208 ms

Loss rate: 0.14%

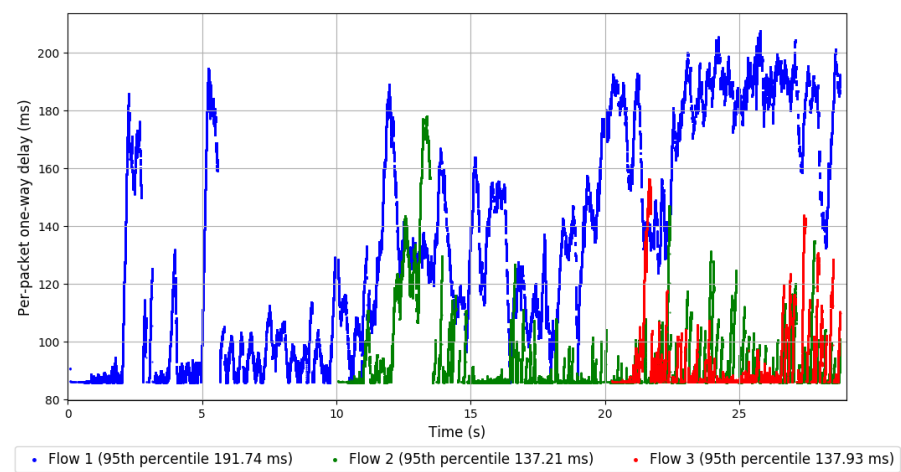
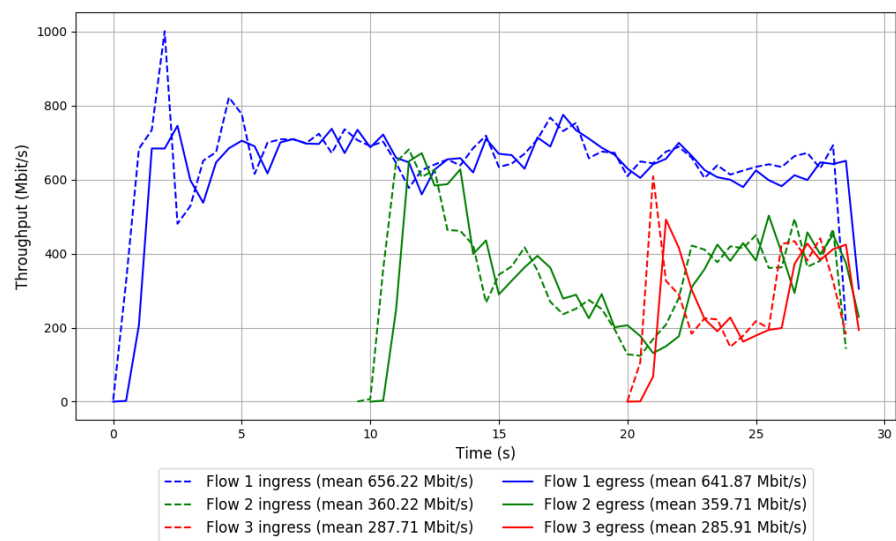
-- Flow 3:

Average throughput: 285.91 Mbit/s

95th percentile per-packet one-way delay: 137.926 ms

Loss rate: 0.61%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2018-12-20 04:46:47

End at: 2018-12-20 04:47:17

Local clock offset: 0.065 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2018-12-20 07:28:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 930.38 Mbit/s

95th percentile per-packet one-way delay: 178.524 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 613.25 Mbit/s

95th percentile per-packet one-way delay: 181.491 ms

Loss rate: 1.61%

-- Flow 2:

Average throughput: 366.44 Mbit/s

95th percentile per-packet one-way delay: 138.723 ms

Loss rate: 0.44%

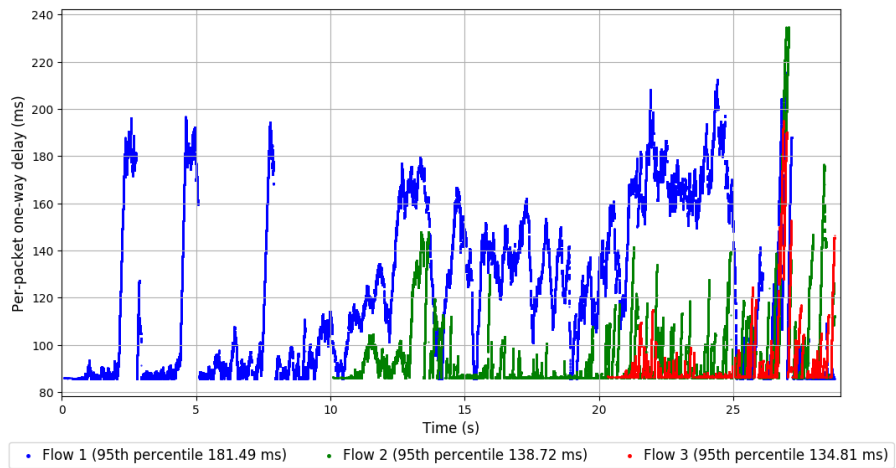
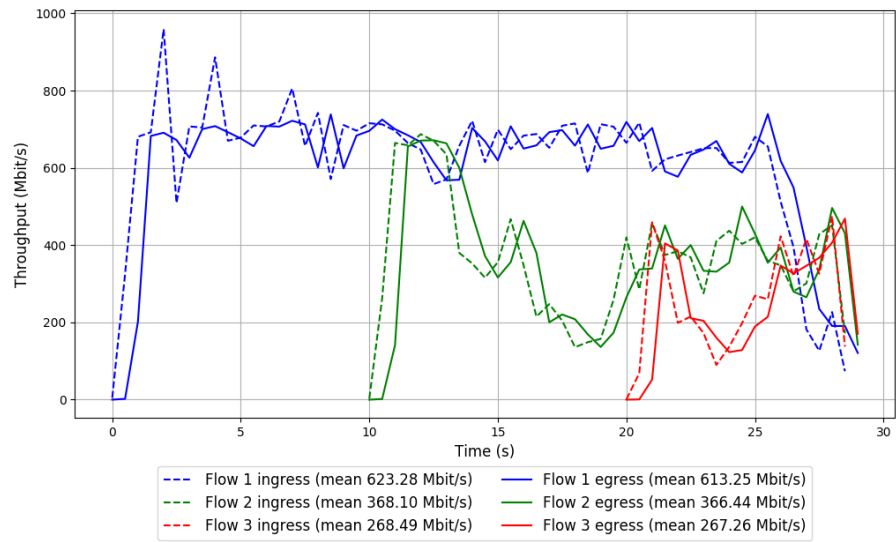
-- Flow 3:

Average throughput: 267.26 Mbit/s

95th percentile per-packet one-way delay: 134.805 ms

Loss rate: 0.41%

Run 4: Report of Indigo-MusesT — Data Link

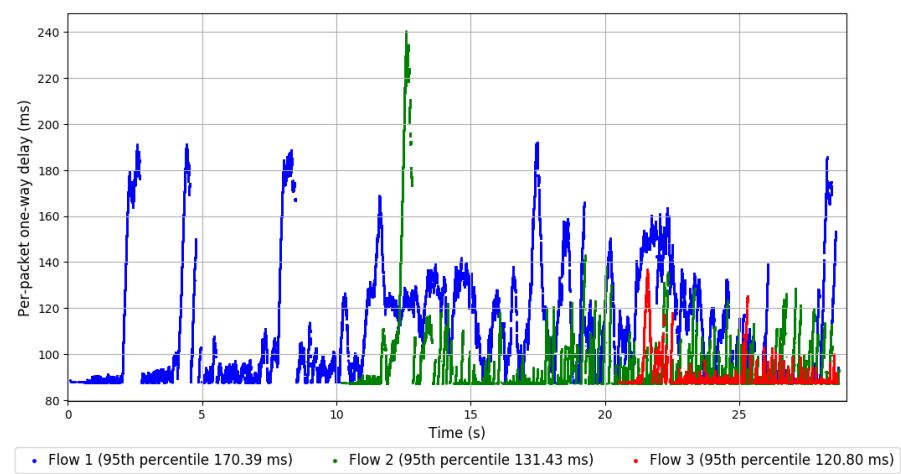
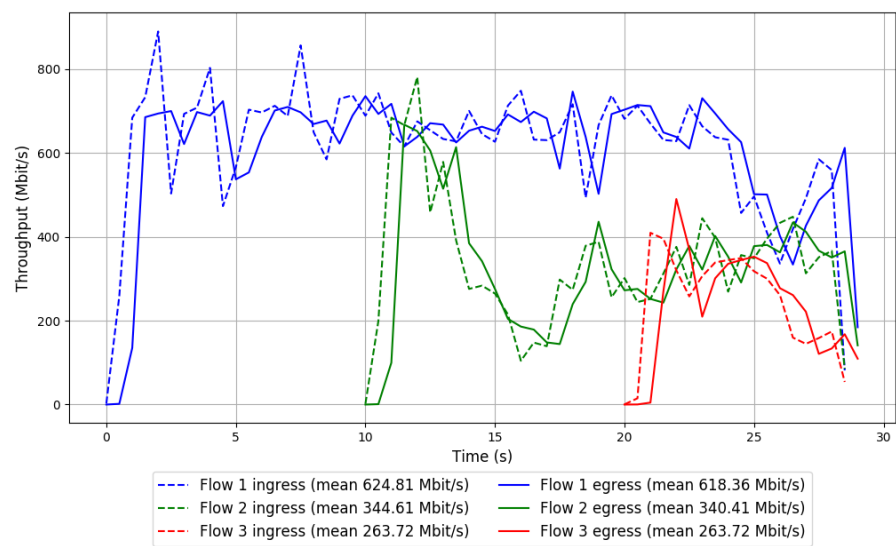


Run 5: Statistics of Indigo-MusesT

Start at: 2018-12-20 05:20:52
End at: 2018-12-20 05:21:22
Local clock offset: -1.732 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-12-20 07:28:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 913.75 Mbit/s
95th percentile per-packet one-way delay: 165.670 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 618.36 Mbit/s
95th percentile per-packet one-way delay: 170.393 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 340.41 Mbit/s
95th percentile per-packet one-way delay: 131.425 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 263.72 Mbit/s
95th percentile per-packet one-way delay: 120.797 ms
Loss rate: 0.00%

Run 5: Report of Indigo-MusesT — Data Link

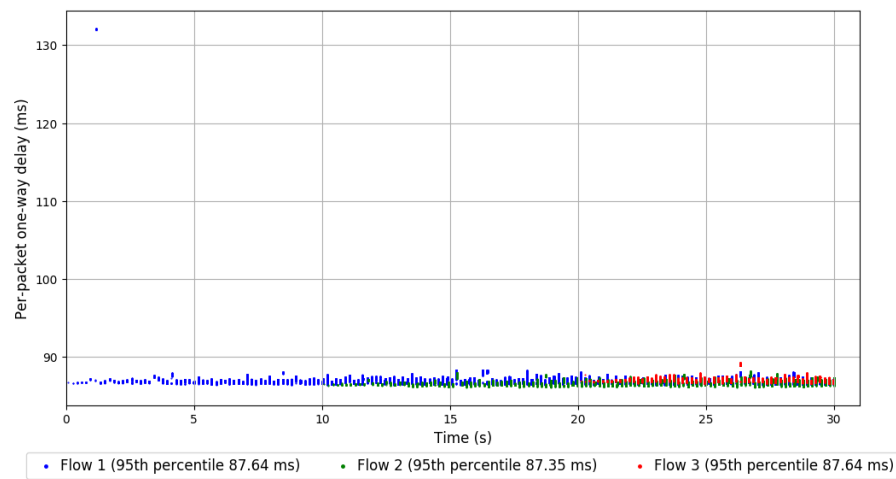
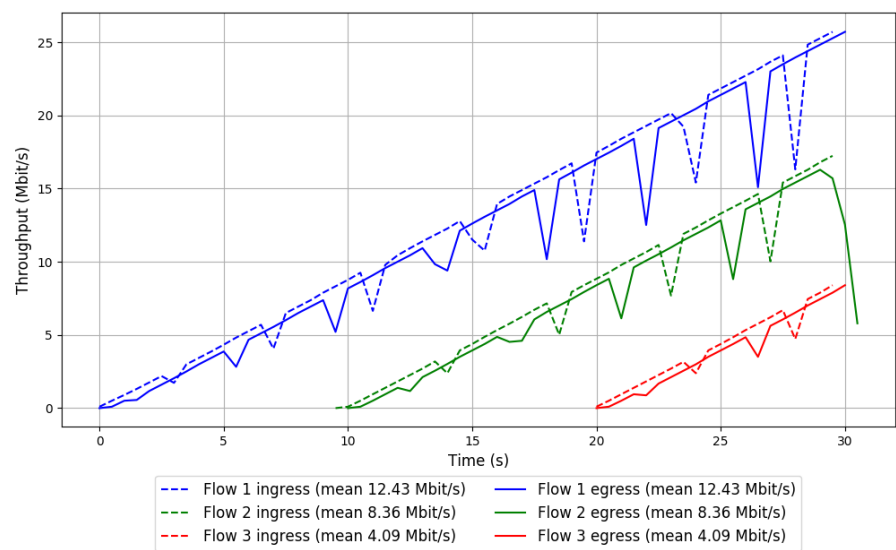



```
Run 1: Statistics of LEDBAT

Start at: 2018-12-20 03:03:05
End at: 2018-12-20 03:03:35
Local clock offset: 0.779 ms
Remote clock offset: 0.254 ms

# Below is generated by plot.py at 2018-12-20 07:28:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.33 Mbit/s
95th percentile per-packet one-way delay: 87.578 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.43 Mbit/s
95th percentile per-packet one-way delay: 87.637 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.36 Mbit/s
95th percentile per-packet one-way delay: 87.348 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 87.638 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-12-20 03:37:33

End at: 2018-12-20 03:38:03

Local clock offset: 2.626 ms

Remote clock offset: 0.084 ms

Below is generated by plot.py at 2018-12-20 07:28:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.60 Mbit/s

95th percentile per-packet one-way delay: 84.014 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.66 Mbit/s

95th percentile per-packet one-way delay: 84.039 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.40 Mbit/s

95th percentile per-packet one-way delay: 84.012 ms

Loss rate: 0.00%

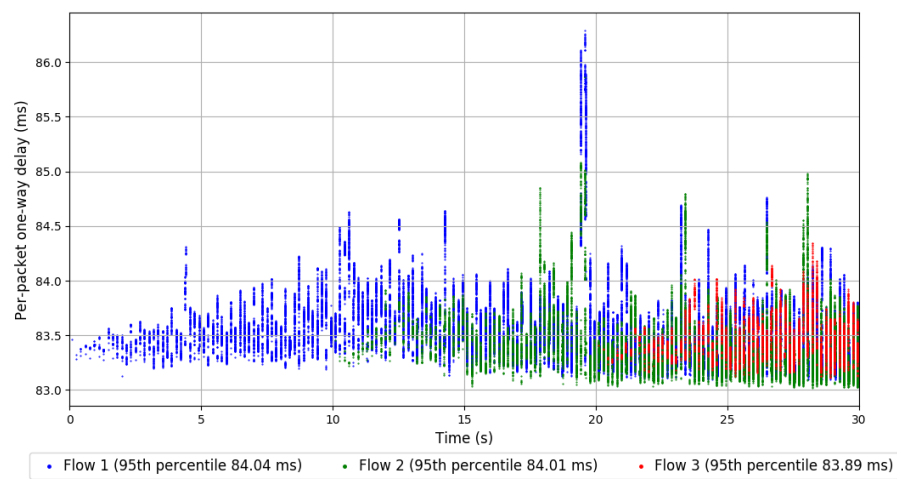
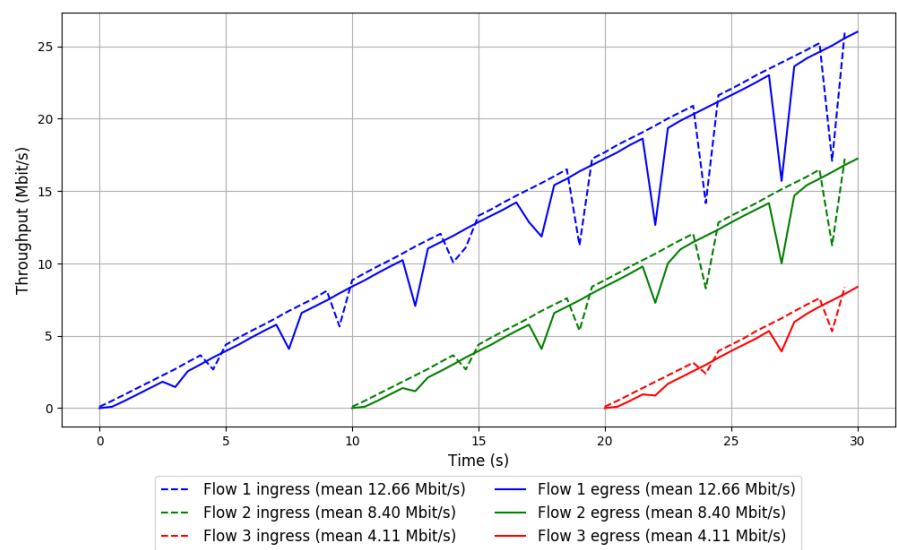
-- Flow 3:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 83.888 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

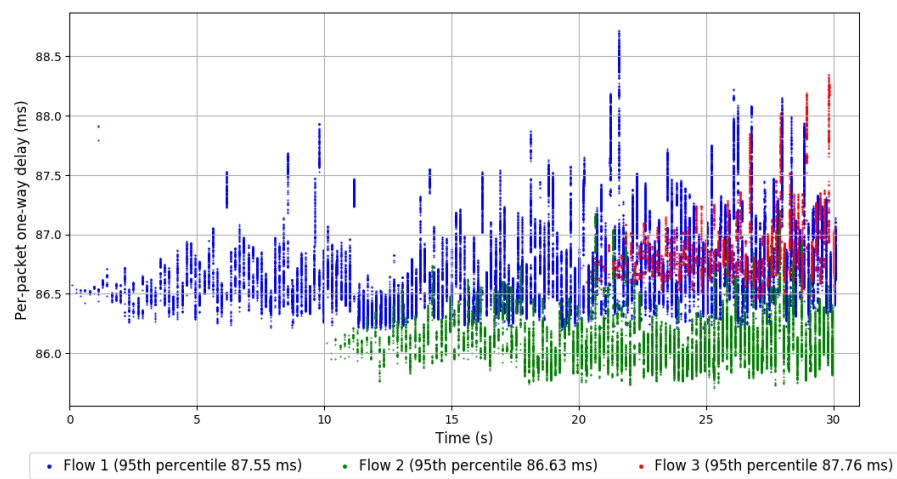
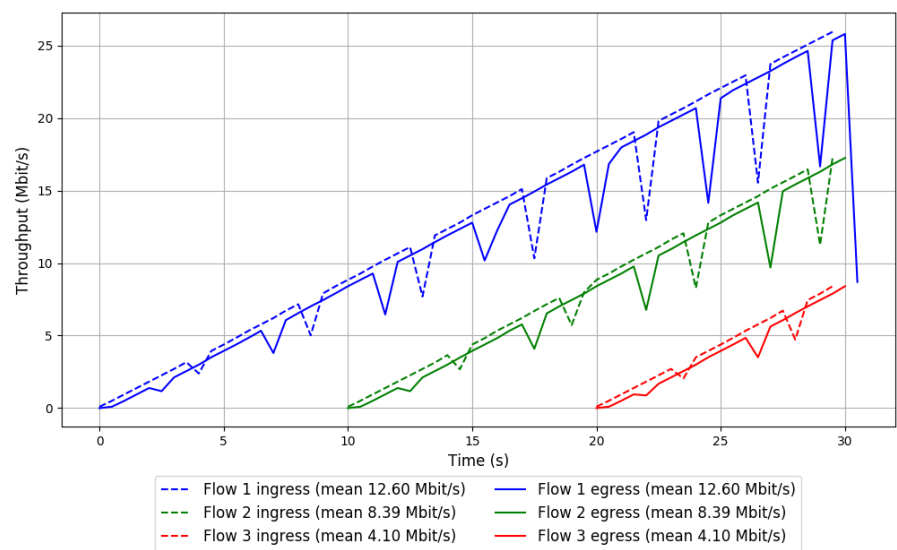


Run 3: Statistics of LEDBAT

Start at: 2018-12-20 04:11:45
End at: 2018-12-20 04:12:15
Local clock offset: -0.083 ms
Remote clock offset: -0.087 ms

Below is generated by plot.py at 2018-12-20 07:28:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.50 Mbit/s
95th percentile per-packet one-way delay: 87.431 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.60 Mbit/s
95th percentile per-packet one-way delay: 87.551 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.39 Mbit/s
95th percentile per-packet one-way delay: 86.634 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.10 Mbit/s
95th percentile per-packet one-way delay: 87.757 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

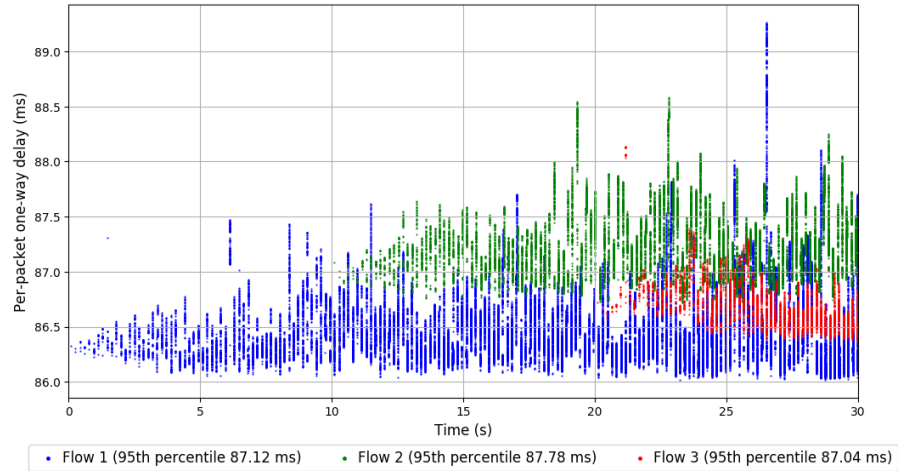
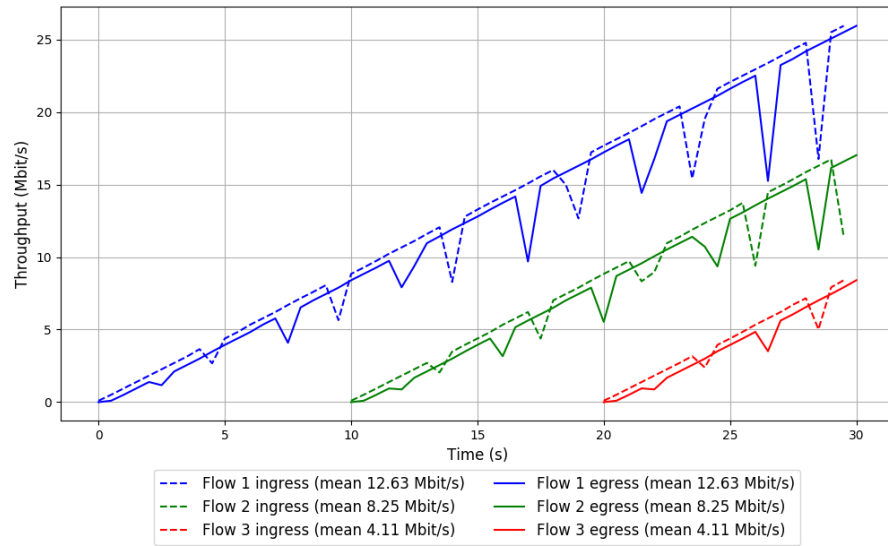


Run 4: Statistics of LEDBAT

Start at: 2018-12-20 04:45:30
End at: 2018-12-20 04:46:00
Local clock offset: -0.243 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-12-20 07:28:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.45 Mbit/s
95th percentile per-packet one-way delay: 87.605 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.63 Mbit/s
95th percentile per-packet one-way delay: 87.123 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.25 Mbit/s
95th percentile per-packet one-way delay: 87.782 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 87.037 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-12-20 05:19:35

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

Local clock offset: 1.168 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-12-20 07:28:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.51 Mbit/s

95th percentile per-packet one-way delay: 85.949 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.62 Mbit/s

95th percentile per-packet one-way delay: 86.118 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.36 Mbit/s

95th percentile per-packet one-way delay: 85.670 ms

Loss rate: 0.00%

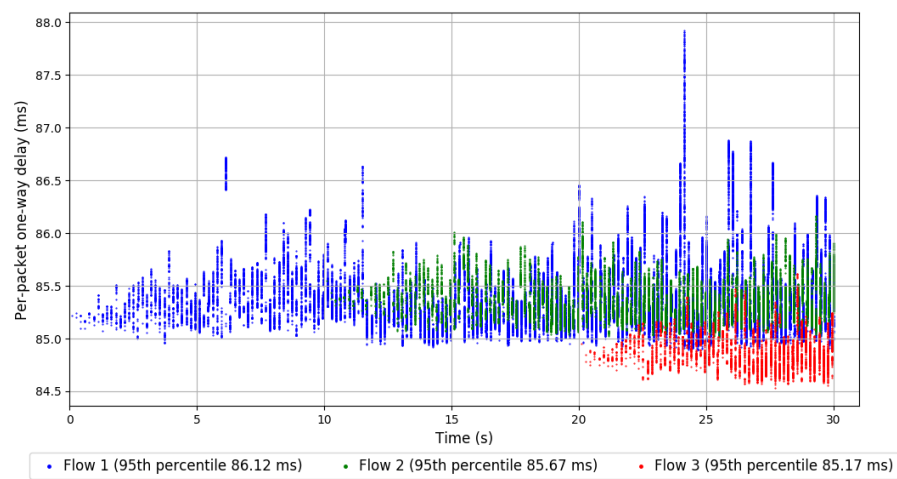
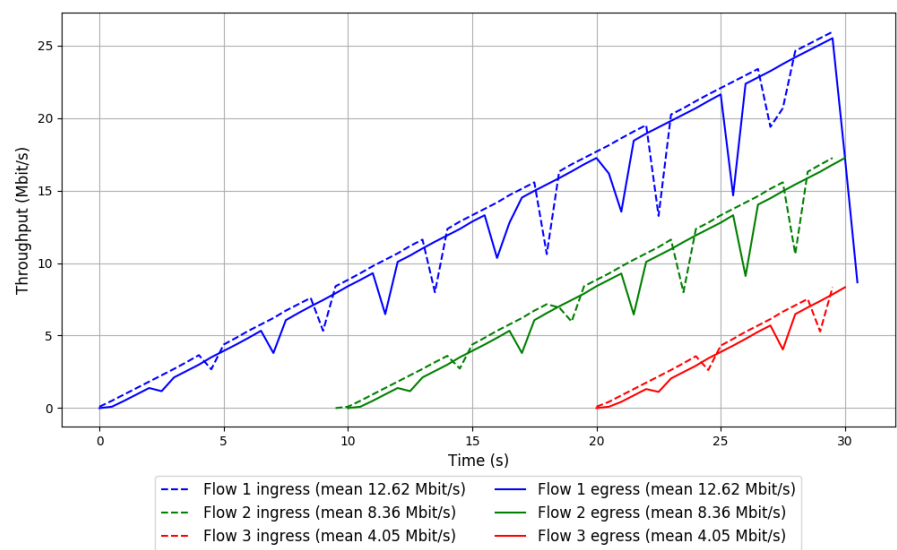
-- Flow 3:

Average throughput: 4.05 Mbit/s

95th percentile per-packet one-way delay: 85.174 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

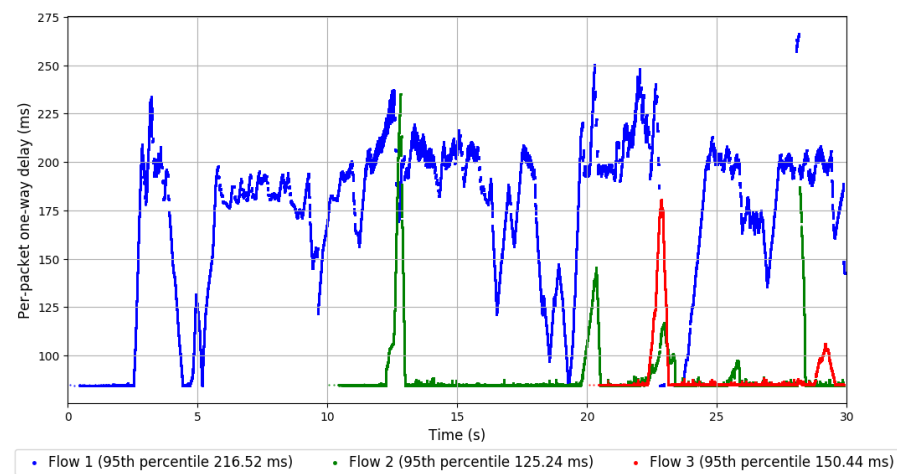
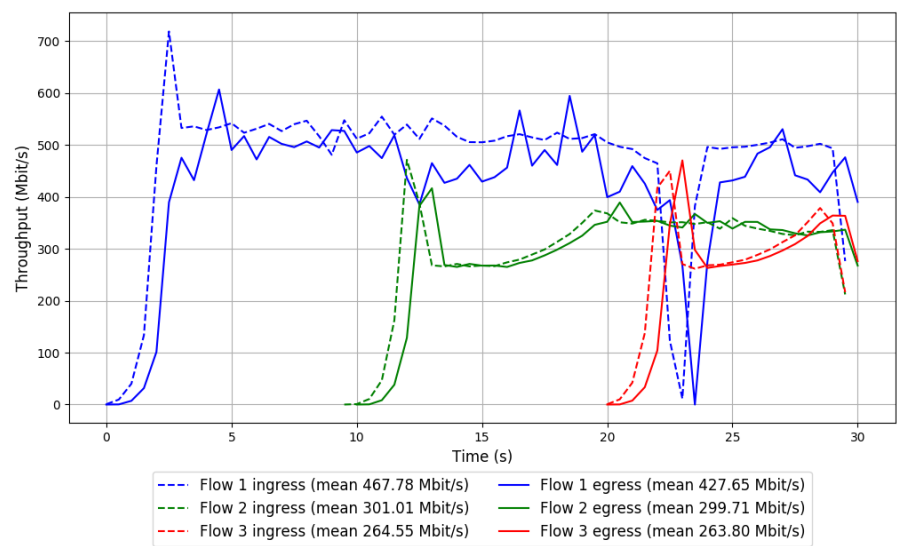


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-12-20 03:15:33
End at: 2018-12-20 03:16:03
Local clock offset: 2.055 ms
Remote clock offset: 0.112 ms

# Below is generated by plot.py at 2018-12-20 07:44:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 713.81 Mbit/s
95th percentile per-packet one-way delay: 210.131 ms
Loss rate: 5.50%
-- Flow 1:
Average throughput: 427.65 Mbit/s
95th percentile per-packet one-way delay: 216.520 ms
Loss rate: 8.59%
-- Flow 2:
Average throughput: 299.71 Mbit/s
95th percentile per-packet one-way delay: 125.242 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 263.80 Mbit/s
95th percentile per-packet one-way delay: 150.436 ms
Loss rate: 0.42%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-12-20 03:50:06

End at: 2018-12-20 03:50:36

Local clock offset: -0.164 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-12-20 07:44:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 626.85 Mbit/s

95th percentile per-packet one-way delay: 223.981 ms

Loss rate: 4.33%

-- Flow 1:

Average throughput: 338.27 Mbit/s

95th percentile per-packet one-way delay: 199.516 ms

Loss rate: 1.46%

-- Flow 2:

Average throughput: 260.53 Mbit/s

95th percentile per-packet one-way delay: 156.642 ms

Loss rate: 3.06%

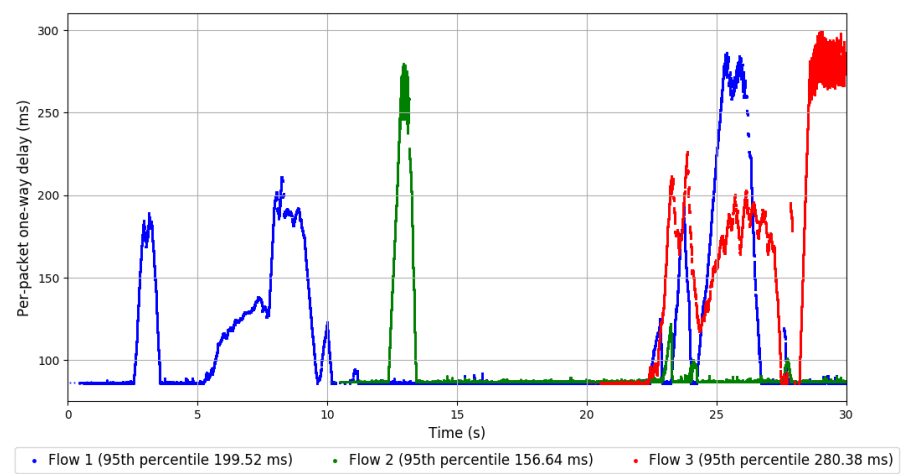
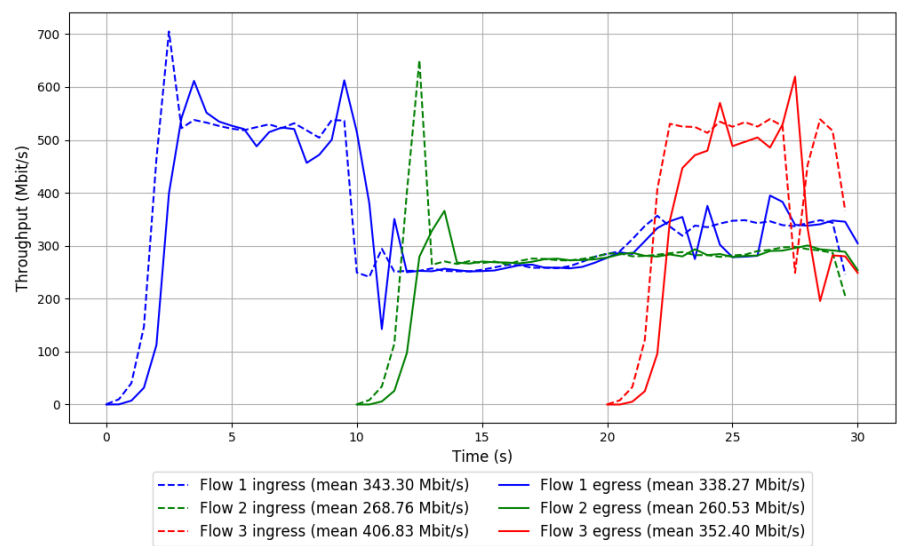
-- Flow 3:

Average throughput: 352.40 Mbit/s

95th percentile per-packet one-way delay: 280.385 ms

Loss rate: 13.37%

Run 2: Report of PCC-Allegro — Data Link

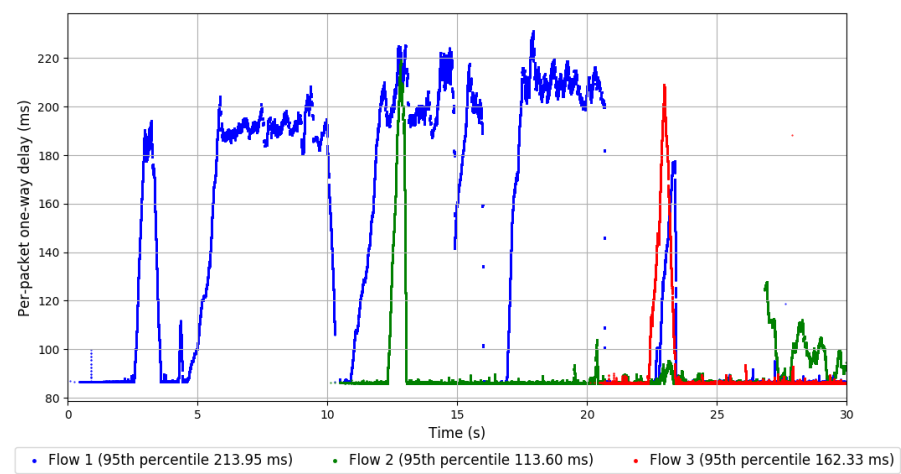
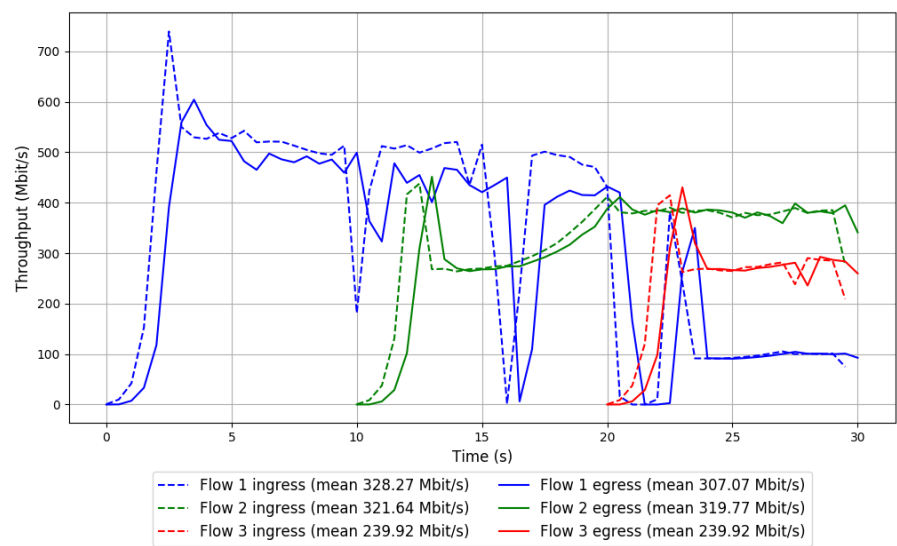


Run 3: Statistics of PCC-Allegro

Start at: 2018-12-20 04:24:09
End at: 2018-12-20 04:24:39
Local clock offset: -0.302 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-12-20 07:44:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 598.67 Mbit/s
95th percentile per-packet one-way delay: 210.389 ms
Loss rate: 3.61%
-- Flow 1:
Average throughput: 307.07 Mbit/s
95th percentile per-packet one-way delay: 213.949 ms
Loss rate: 6.46%
-- Flow 2:
Average throughput: 319.77 Mbit/s
95th percentile per-packet one-way delay: 113.603 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 239.92 Mbit/s
95th percentile per-packet one-way delay: 162.331 ms
Loss rate: 0.00%

Run 3: Report of PCC-Allegro — Data Link

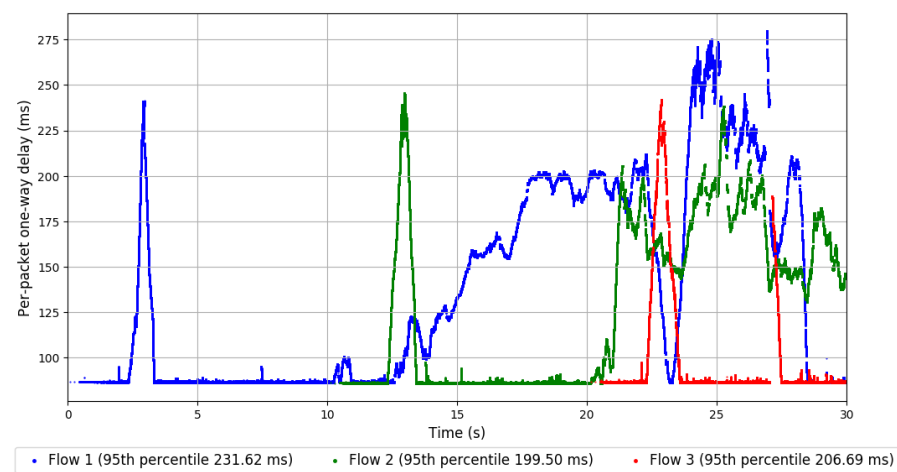
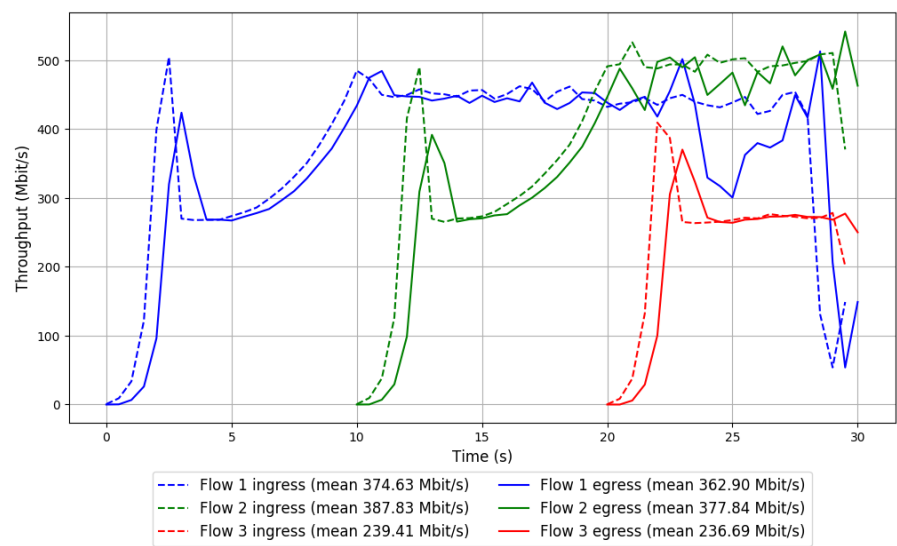


Run 4: Statistics of PCC-Allegro

Start at: 2018-12-20 04:58:06
End at: 2018-12-20 04:58:36
Local clock offset: -0.196 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2018-12-20 07:45:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 691.49 Mbit/s
95th percentile per-packet one-way delay: 221.791 ms
Loss rate: 2.71%
-- Flow 1:
Average throughput: 362.90 Mbit/s
95th percentile per-packet one-way delay: 231.621 ms
Loss rate: 3.13%
-- Flow 2:
Average throughput: 377.84 Mbit/s
95th percentile per-packet one-way delay: 199.505 ms
Loss rate: 2.57%
-- Flow 3:
Average throughput: 236.69 Mbit/s
95th percentile per-packet one-way delay: 206.686 ms
Loss rate: 1.14%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-12-20 05:32:15

End at: 2018-12-20 05:32:45

Local clock offset: -0.291 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-12-20 07:46:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 682.26 Mbit/s

95th percentile per-packet one-way delay: 171.032 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 382.67 Mbit/s

95th percentile per-packet one-way delay: 173.304 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 333.83 Mbit/s

95th percentile per-packet one-way delay: 138.020 ms

Loss rate: 0.20%

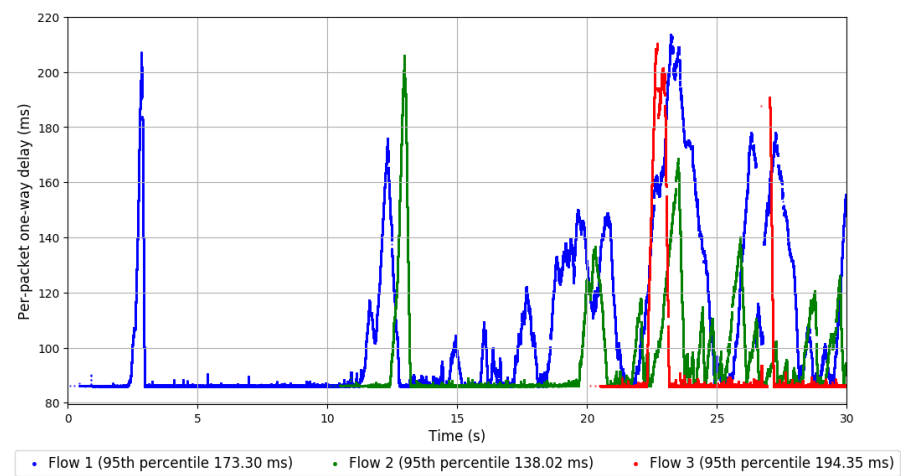
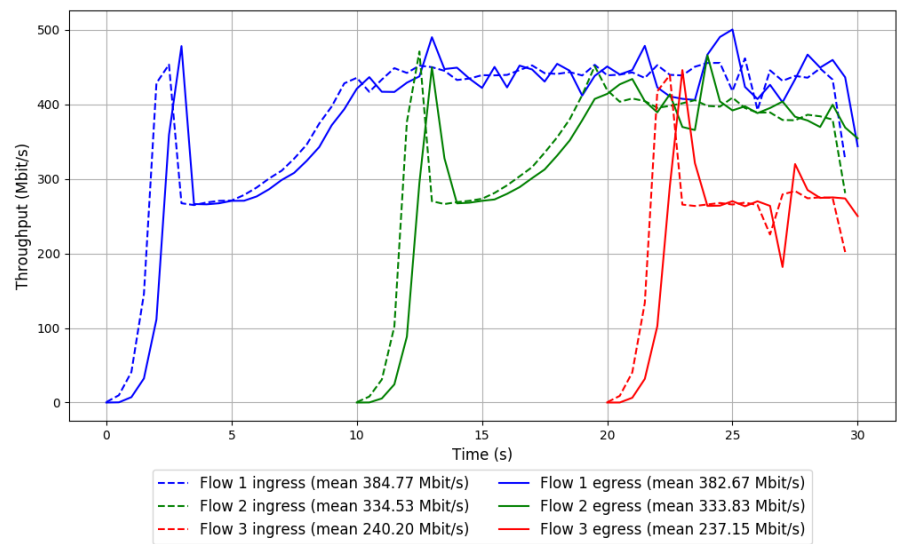
-- Flow 3:

Average throughput: 237.15 Mbit/s

95th percentile per-packet one-way delay: 194.350 ms

Loss rate: 1.31%

Run 5: Report of PCC-Allegro — Data Link

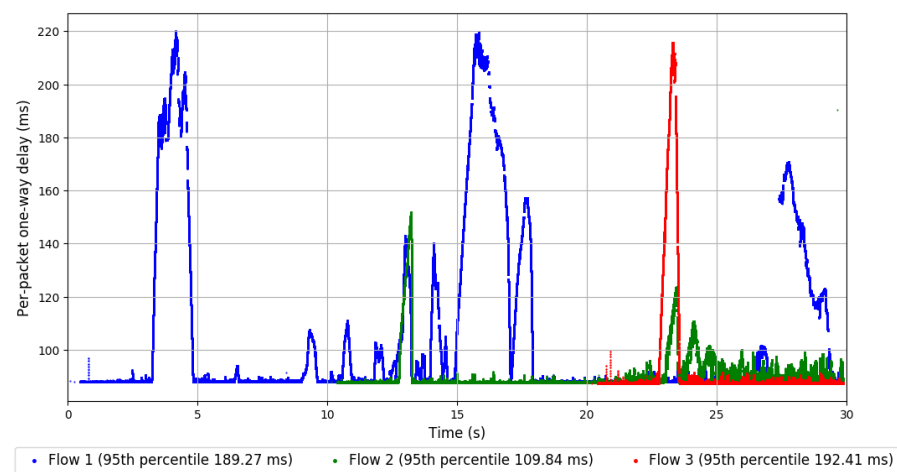
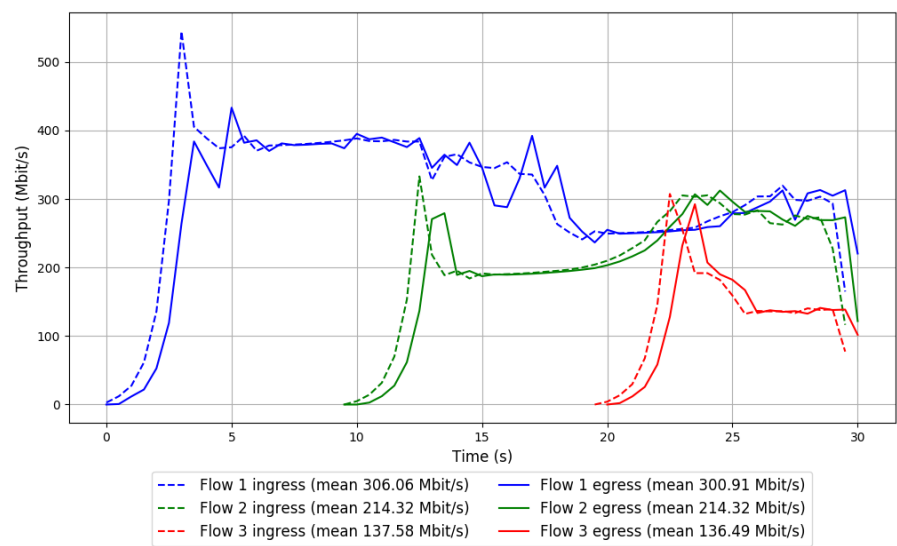


```
Run 1: Statistics of PCC-Expr

Start at: 2018-12-20 02:59:06
End at: 2018-12-20 02:59:36
Local clock offset: -0.86 ms
Remote clock offset: 0.211 ms

# Below is generated by plot.py at 2018-12-20 07:46:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 489.17 Mbit/s
95th percentile per-packet one-way delay: 180.322 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 300.91 Mbit/s
95th percentile per-packet one-way delay: 189.268 ms
Loss rate: 1.68%
-- Flow 2:
Average throughput: 214.32 Mbit/s
95th percentile per-packet one-way delay: 109.836 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 136.49 Mbit/s
95th percentile per-packet one-way delay: 192.408 ms
Loss rate: 0.91%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-12-20 03:33:24

End at: 2018-12-20 03:33:54

Local clock offset: -0.321 ms

Remote clock offset: 0.081 ms

Below is generated by plot.py at 2018-12-20 07:48:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 586.44 Mbit/s

95th percentile per-packet one-way delay: 203.393 ms

Loss rate: 3.82%

-- Flow 1:

Average throughput: 337.06 Mbit/s

95th percentile per-packet one-way delay: 197.078 ms

Loss rate: 3.86%

-- Flow 2:

Average throughput: 292.51 Mbit/s

95th percentile per-packet one-way delay: 220.475 ms

Loss rate: 4.64%

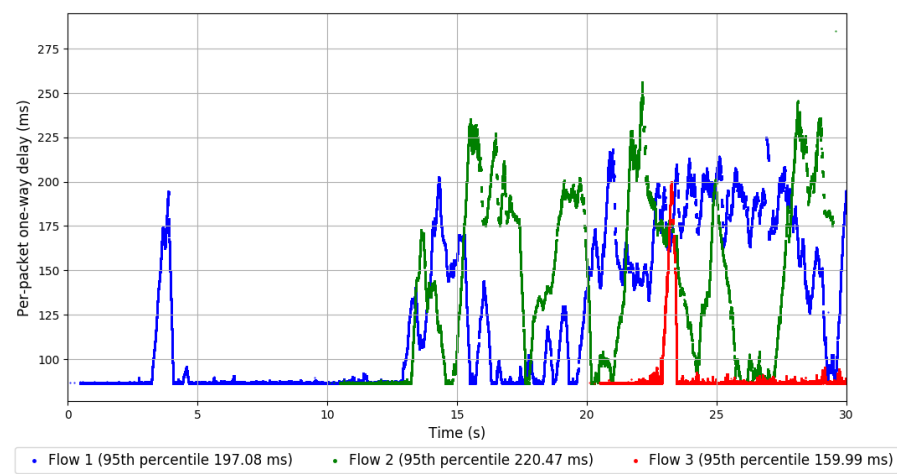
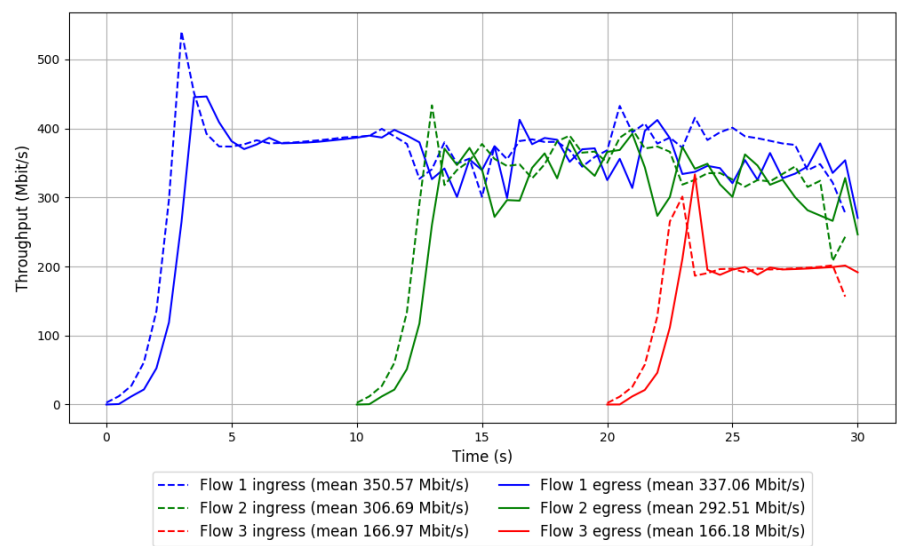
-- Flow 3:

Average throughput: 166.18 Mbit/s

95th percentile per-packet one-way delay: 159.989 ms

Loss rate: 0.50%

Run 2: Report of PCC-Expr — Data Link

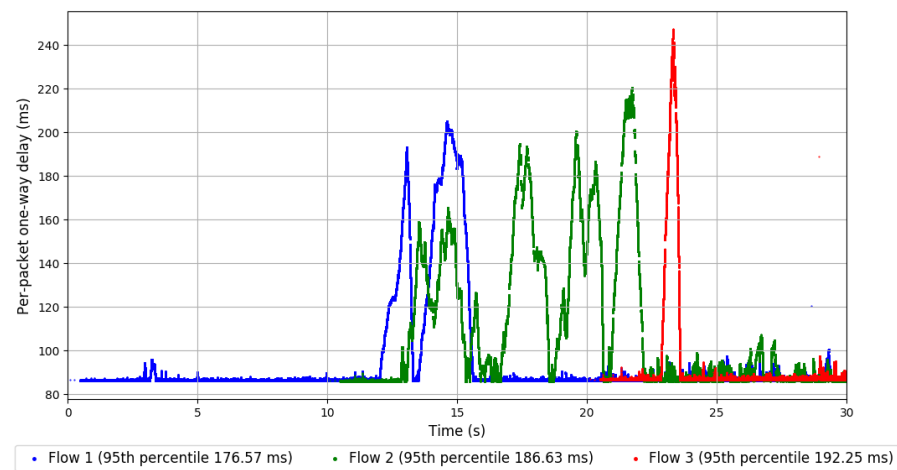
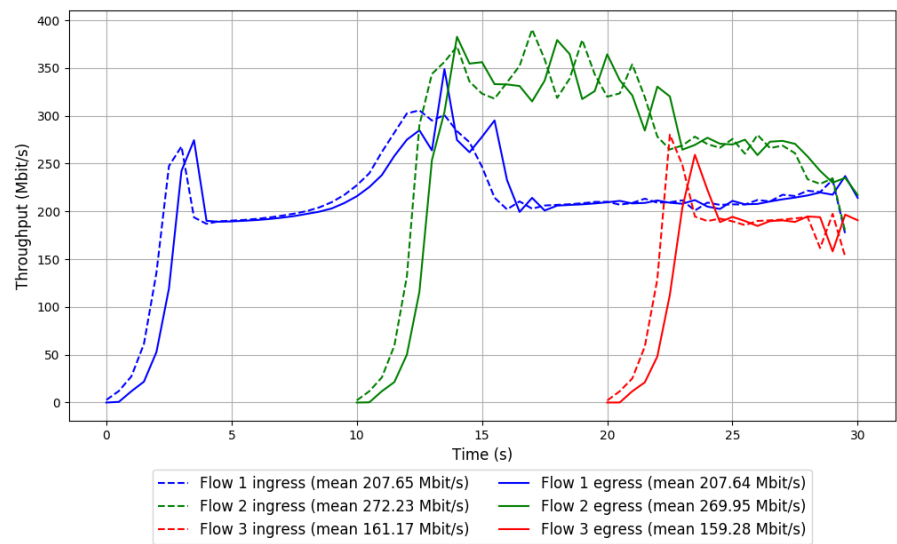


Run 3: Statistics of PCC-Expr

Start at: 2018-12-20 04:07:52
End at: 2018-12-20 04:08:22
Local clock offset: -0.116 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-12-20 07:48:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 439.70 Mbit/s
95th percentile per-packet one-way delay: 182.312 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 207.64 Mbit/s
95th percentile per-packet one-way delay: 176.566 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 269.95 Mbit/s
95th percentile per-packet one-way delay: 186.631 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 159.28 Mbit/s
95th percentile per-packet one-way delay: 192.250 ms
Loss rate: 1.18%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-12-20 04:41:23

End at: 2018-12-20 04:41:53

Local clock offset: -0.067 ms

Remote clock offset: 0.011 ms

Below is generated by plot.py at 2018-12-20 07:59:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 565.08 Mbit/s

95th percentile per-packet one-way delay: 189.597 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 305.70 Mbit/s

95th percentile per-packet one-way delay: 185.217 ms

Loss rate: 1.28%

-- Flow 2:

Average throughput: 302.01 Mbit/s

95th percentile per-packet one-way delay: 196.184 ms

Loss rate: 2.04%

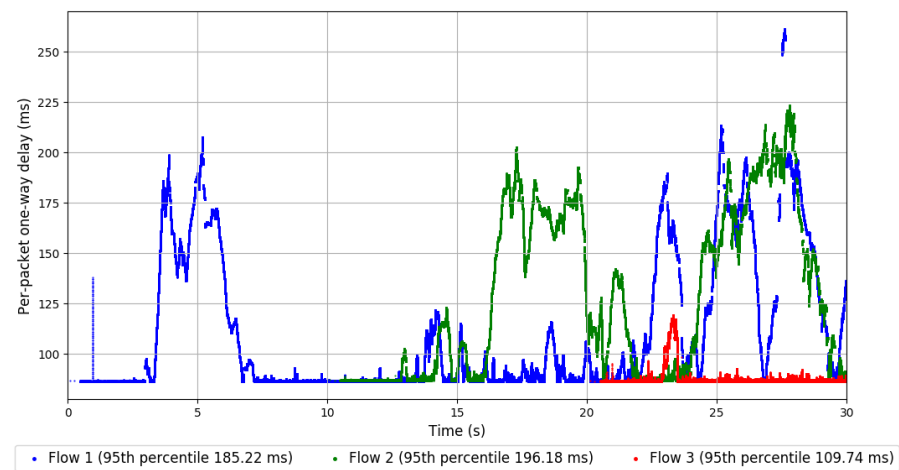
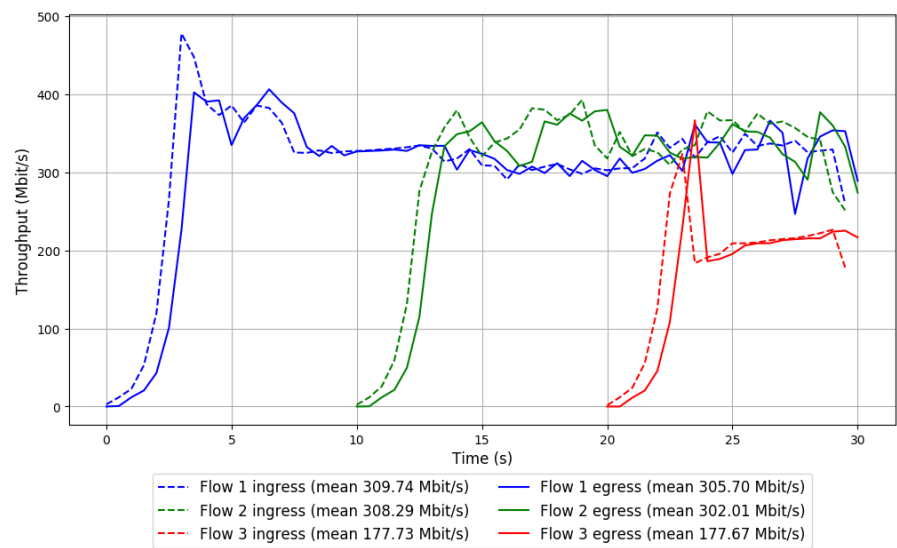
-- Flow 3:

Average throughput: 177.67 Mbit/s

95th percentile per-packet one-way delay: 109.740 ms

Loss rate: 0.04%

Run 4: Report of PCC-Expr — Data Link

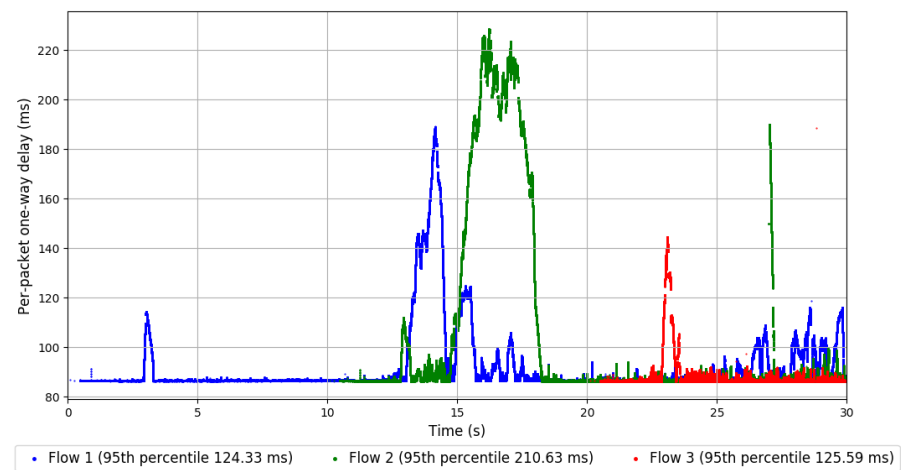
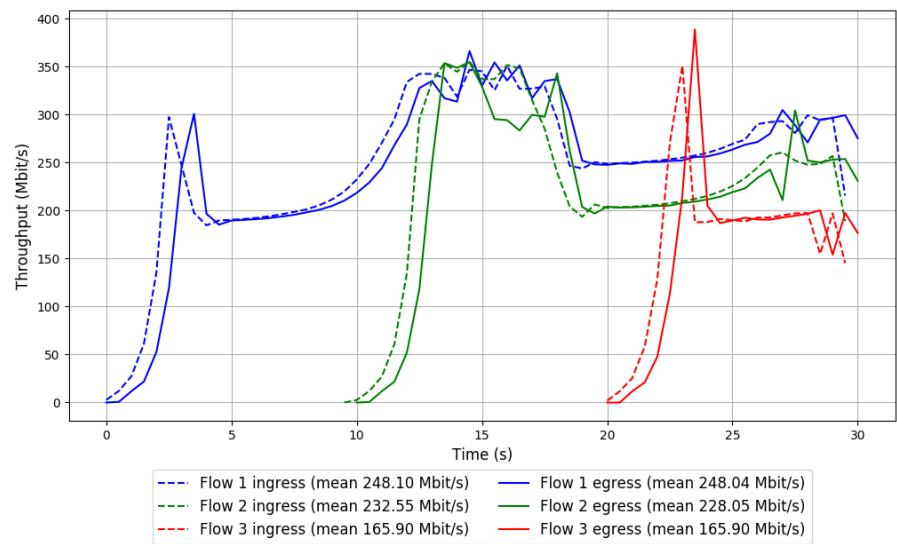


Run 5: Statistics of PCC-Expr

Start at: 2018-12-20 05:15:40
End at: 2018-12-20 05:16:10
Local clock offset: -0.213 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-12-20 07:59:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 454.45 Mbit/s
95th percentile per-packet one-way delay: 179.507 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 248.04 Mbit/s
95th percentile per-packet one-way delay: 124.331 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 228.05 Mbit/s
95th percentile per-packet one-way delay: 210.627 ms
Loss rate: 1.98%
-- Flow 3:
Average throughput: 165.90 Mbit/s
95th percentile per-packet one-way delay: 125.588 ms
Loss rate: 0.01%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-12-20 02:53:43

End at: 2018-12-20 02:54:13

Local clock offset: 0.392 ms

Remote clock offset: 0.217 ms

Below is generated by plot.py at 2018-12-20 07:59:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.15 Mbit/s

95th percentile per-packet one-way delay: 86.789 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 86.443 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.49 Mbit/s

95th percentile per-packet one-way delay: 86.782 ms

Loss rate: 0.00%

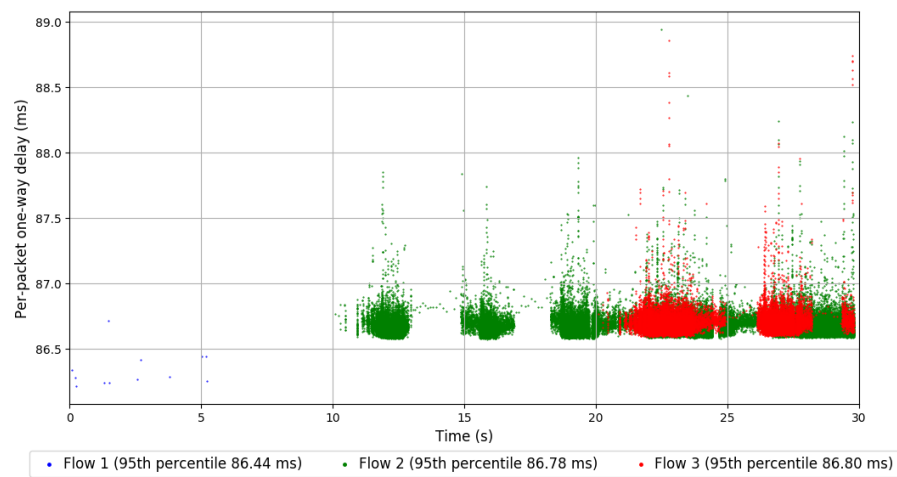
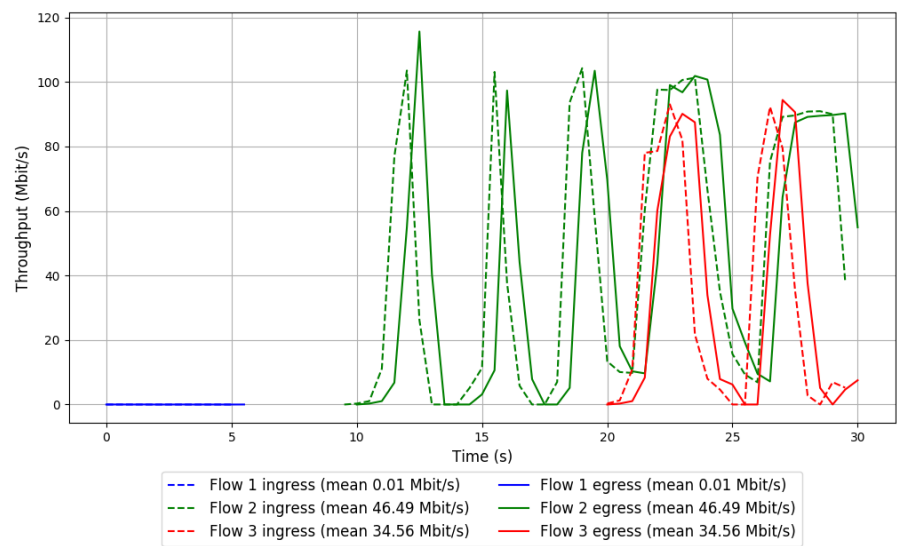
-- Flow 3:

Average throughput: 34.56 Mbit/s

95th percentile per-packet one-way delay: 86.802 ms

Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-12-20 03:27:57

End at: 2018-12-20 03:28:27

Local clock offset: 0.458 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-12-20 07:59:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.73 Mbit/s

95th percentile per-packet one-way delay: 86.263 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.80 Mbit/s

95th percentile per-packet one-way delay: 86.315 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.83 Mbit/s

95th percentile per-packet one-way delay: 85.499 ms

Loss rate: 0.00%

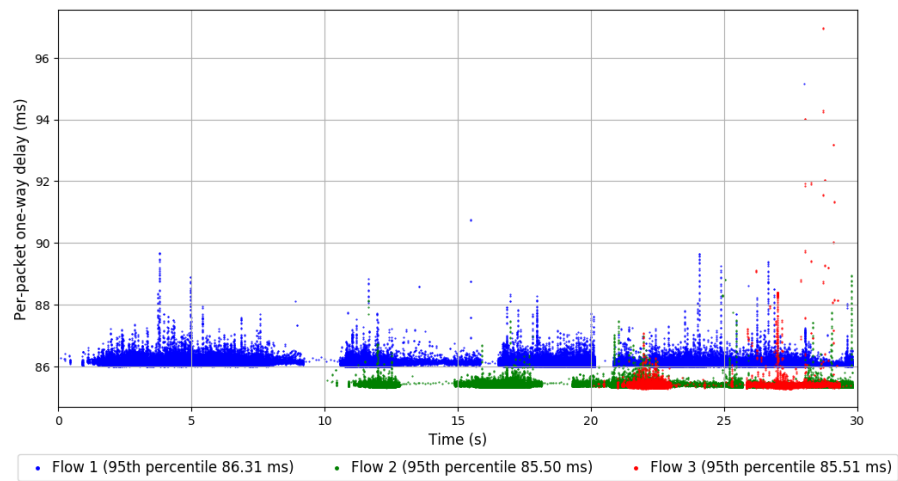
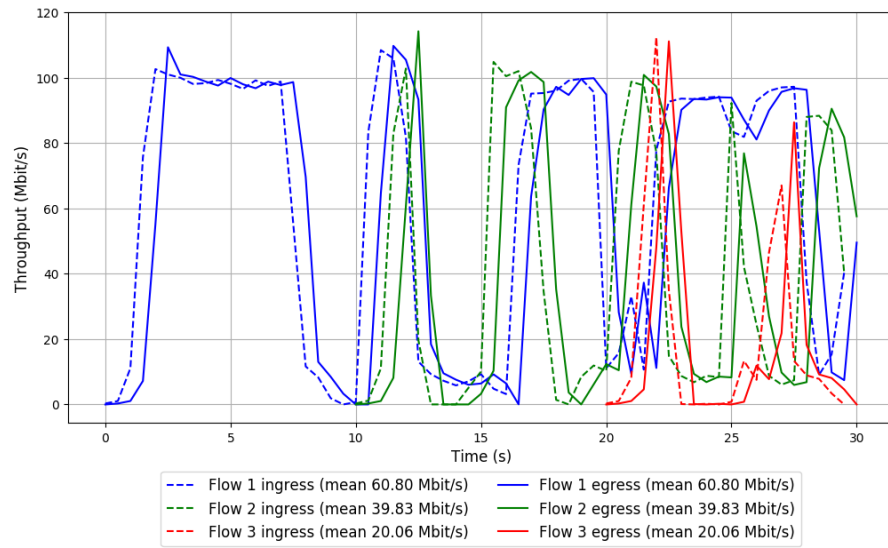
-- Flow 3:

Average throughput: 20.06 Mbit/s

95th percentile per-packet one-way delay: 85.512 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link

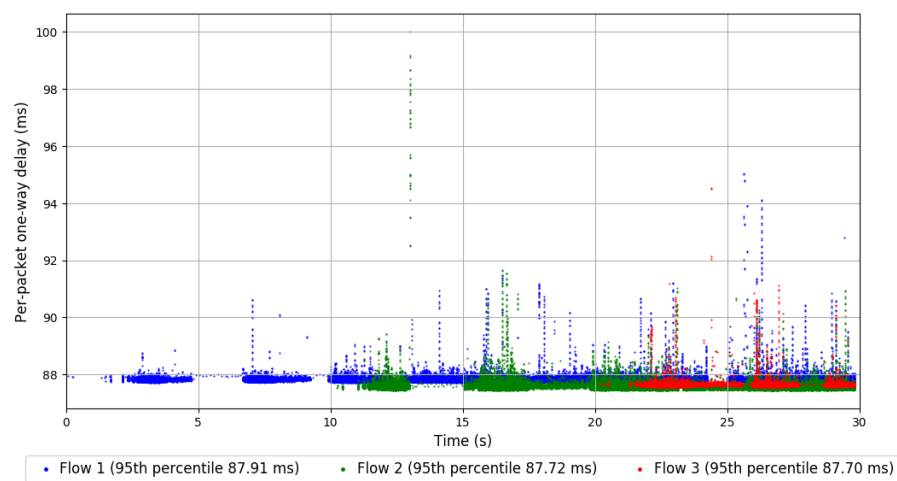
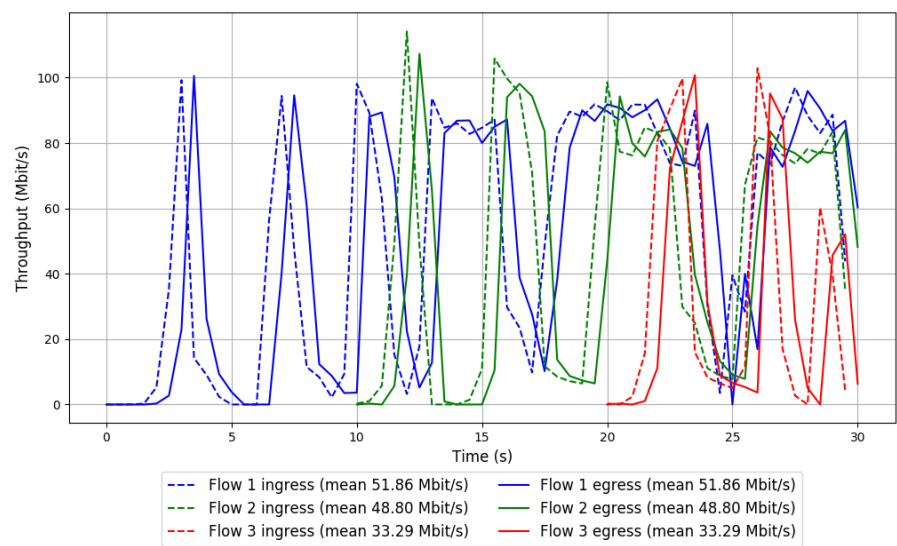


Run 3: Statistics of QUIC Cubic

Start at: 2018-12-20 04:02:30
End at: 2018-12-20 04:03:00
Local clock offset: -1.534 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-12-20 07:59:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.08 Mbit/s
95th percentile per-packet one-way delay: 87.884 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.86 Mbit/s
95th percentile per-packet one-way delay: 87.907 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 48.80 Mbit/s
95th percentile per-packet one-way delay: 87.721 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 33.29 Mbit/s
95th percentile per-packet one-way delay: 87.703 ms
Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link

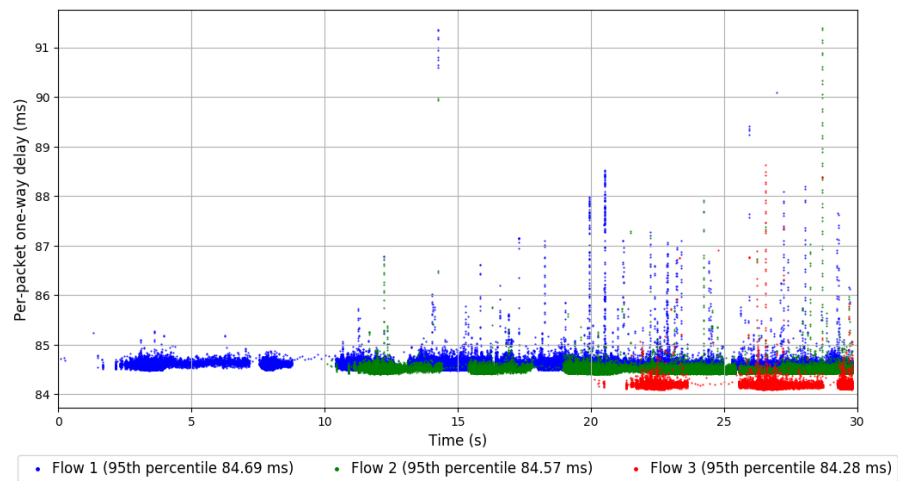
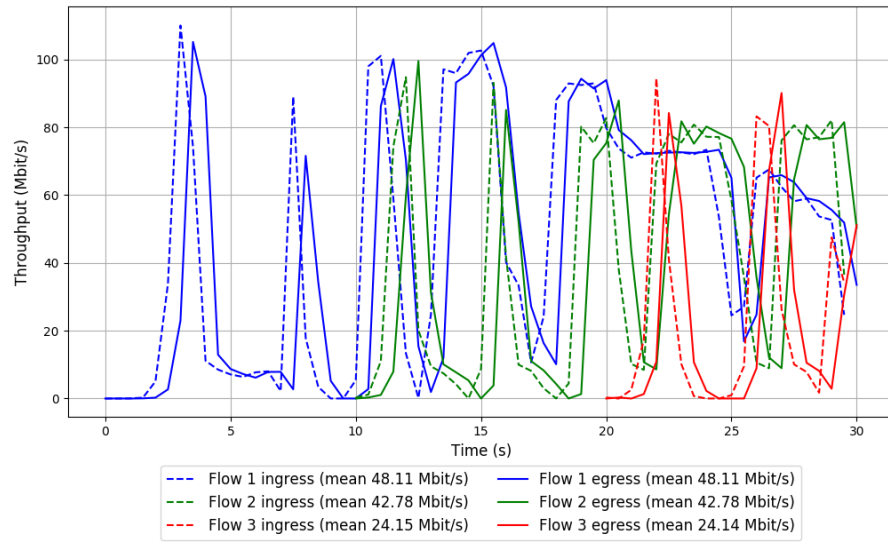


Run 4: Statistics of QUIC Cubic

Start at: 2018-12-20 04:36:20
End at: 2018-12-20 04:36:50
Local clock offset: 1.661 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2018-12-20 07:59:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.37 Mbit/s
95th percentile per-packet one-way delay: 84.665 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.11 Mbit/s
95th percentile per-packet one-way delay: 84.691 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 42.78 Mbit/s
95th percentile per-packet one-way delay: 84.570 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.14 Mbit/s
95th percentile per-packet one-way delay: 84.282 ms
Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-12-20 05:10:18

End at: 2018-12-20 05:10:48

Local clock offset: -0.018 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-12-20 07:59:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.36 Mbit/s

95th percentile per-packet one-way delay: 86.328 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.19 Mbit/s

95th percentile per-packet one-way delay: 86.282 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.10 Mbit/s

95th percentile per-packet one-way delay: 86.361 ms

Loss rate: 0.00%

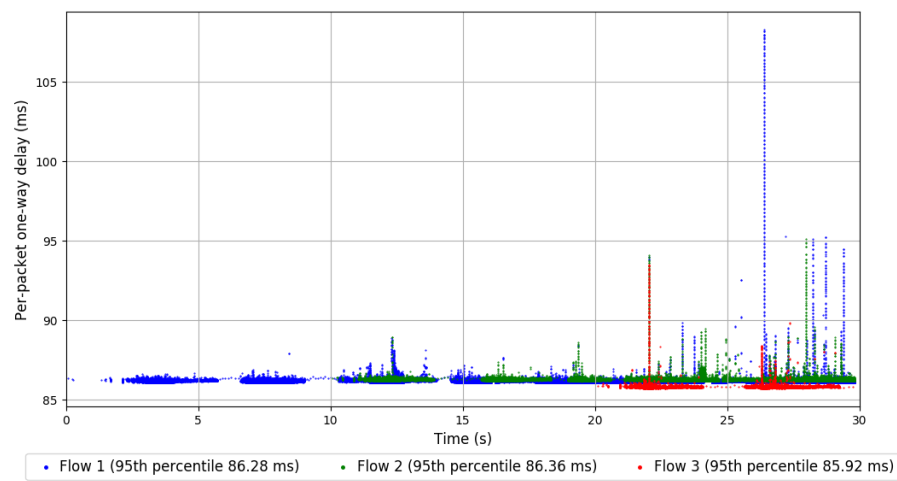
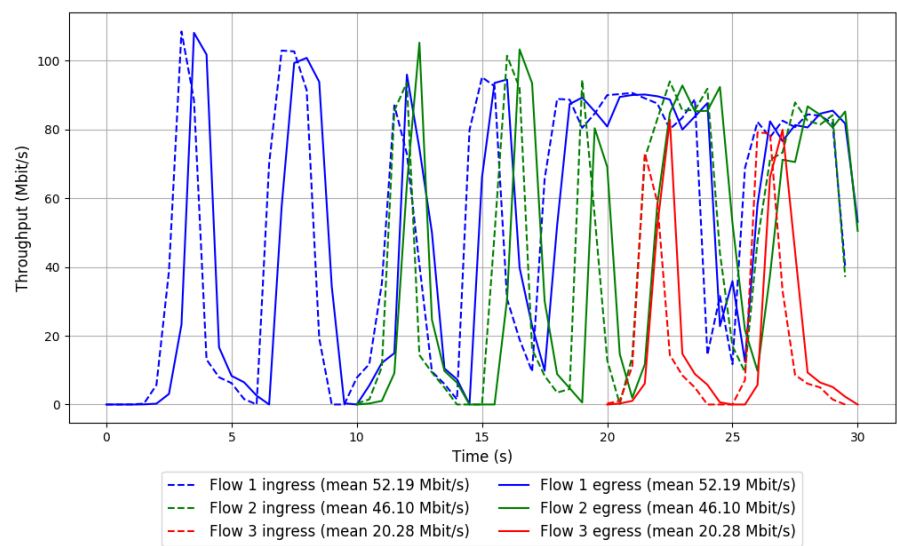
-- Flow 3:

Average throughput: 20.28 Mbit/s

95th percentile per-packet one-way delay: 85.918 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

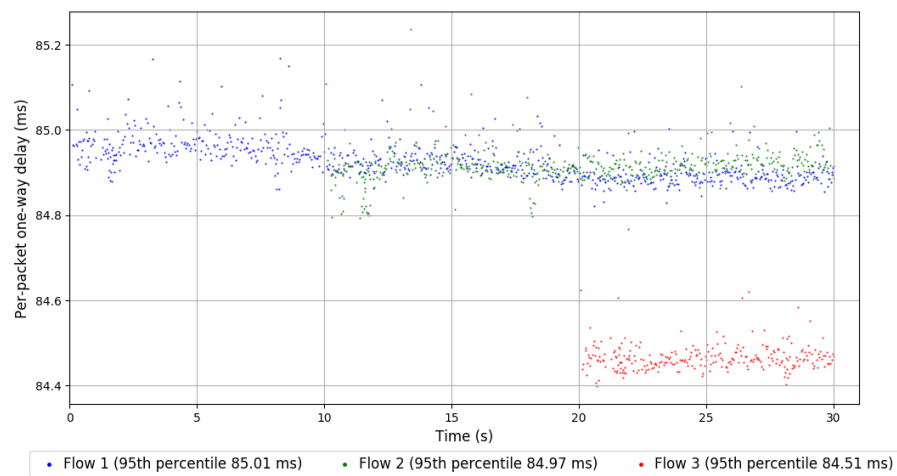
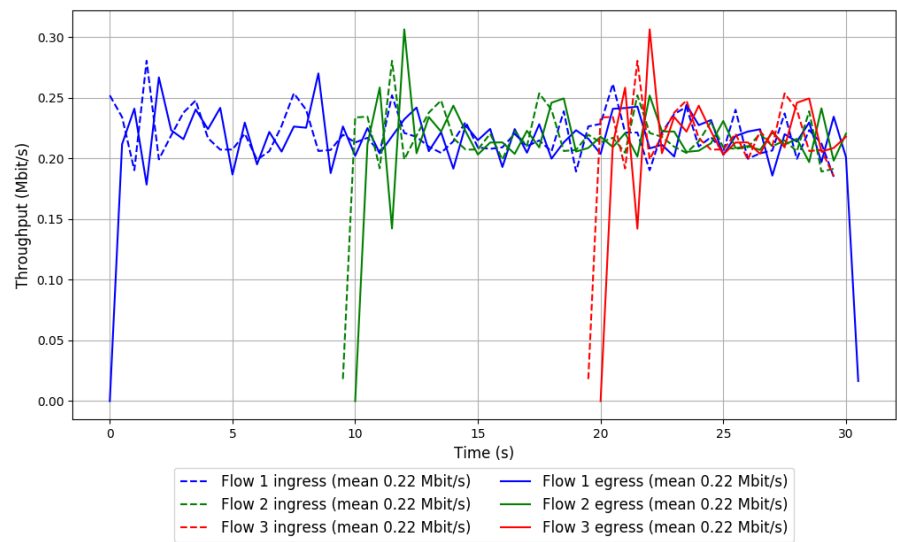



```
Run 1: Statistics of SReAM

Start at: 2018-12-20 03:22:46
End at: 2018-12-20 03:23:16
Local clock offset: 1.491 ms
Remote clock offset: 0.04 ms

# Below is generated by plot.py at 2018-12-20 07:59:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 84.990 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.008 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.971 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.512 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

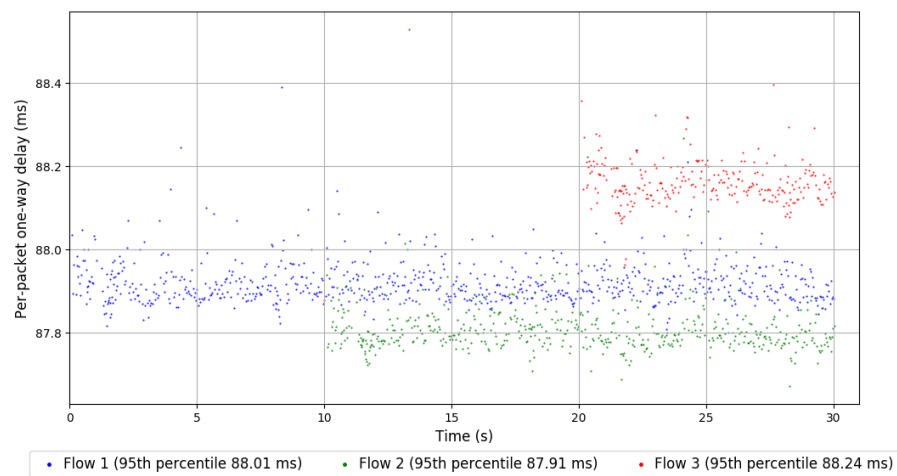
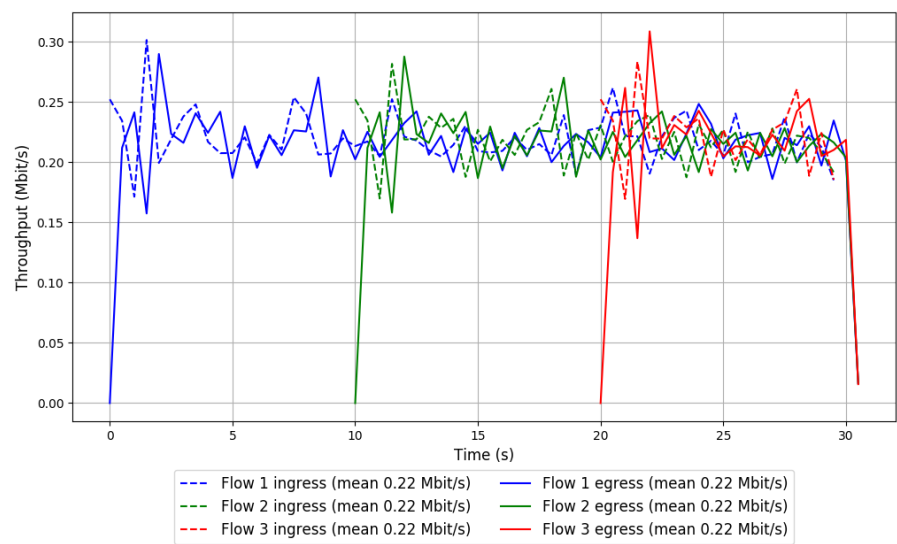


Run 2: Statistics of SReAM

Start at: 2018-12-20 03:57:15
End at: 2018-12-20 03:57:45
Local clock offset: -1.508 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-12-20 07:59:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 88.184 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 88.014 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.905 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 88.243 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

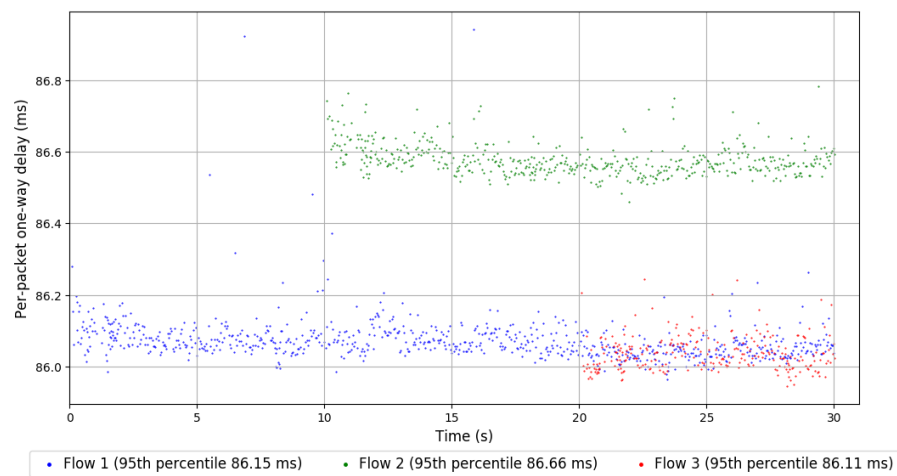
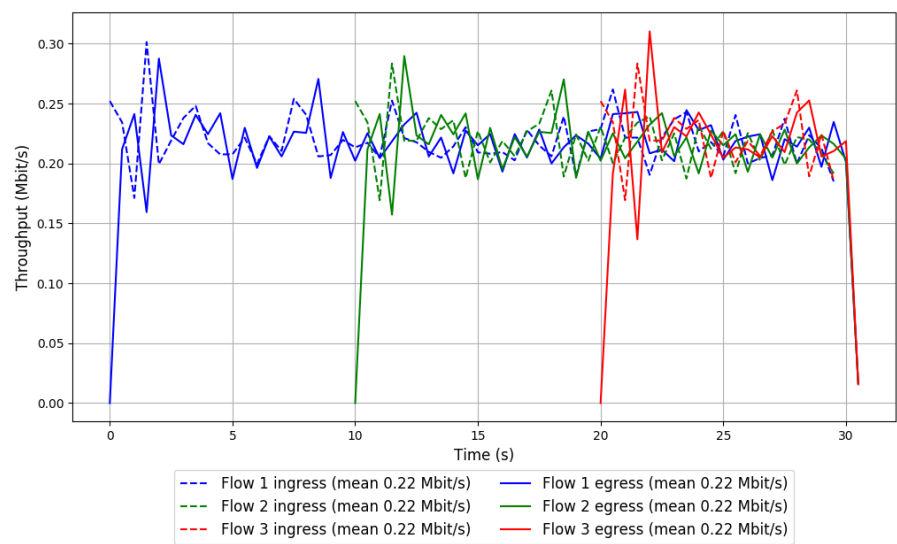


Run 3: Statistics of SReAM

Start at: 2018-12-20 04:31:16
End at: 2018-12-20 04:31:46
Local clock offset: -0.104 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2018-12-20 07:59:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.618 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.149 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.657 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.114 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

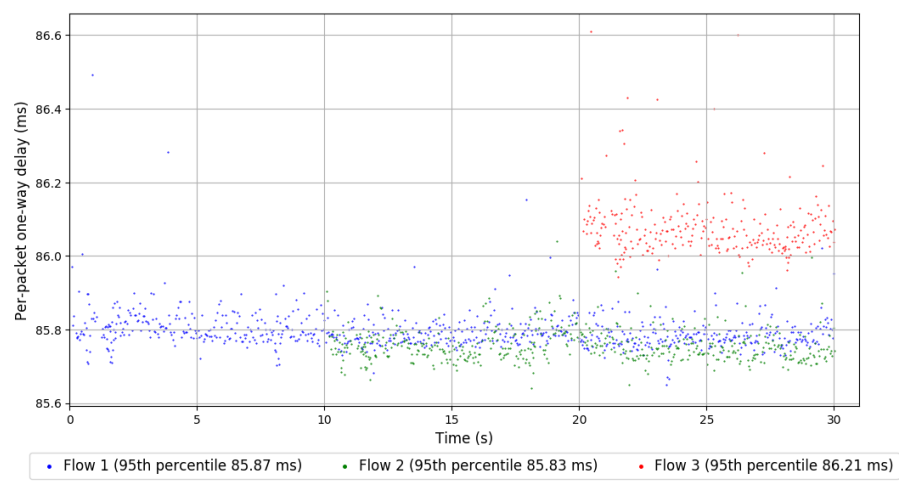
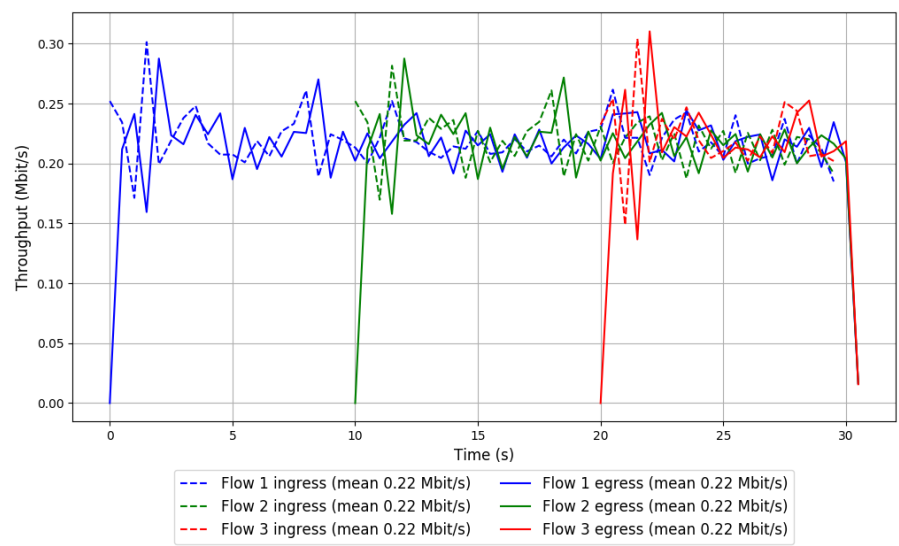


Run 4: Statistics of SReAM

Start at: 2018-12-20 05:05:11
End at: 2018-12-20 05:05:41
Local clock offset: 0.121 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2018-12-20 07:59:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.096 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.868 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.835 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.211 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-12-20 05:39:21

End at: 2018-12-20 05:39:51

Local clock offset: 0.221 ms

Remote clock offset: 0.007 ms

Below is generated by plot.py at 2018-12-20 07:59:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.214 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.235 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.052 ms

Loss rate: 0.00%

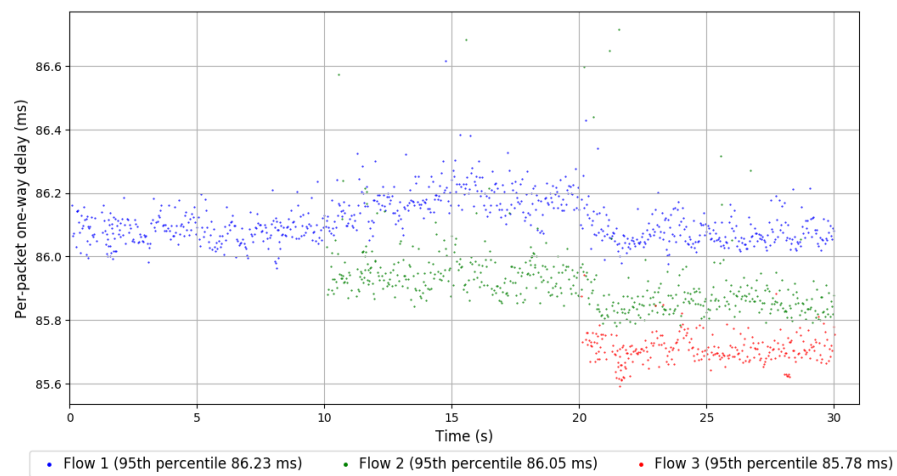
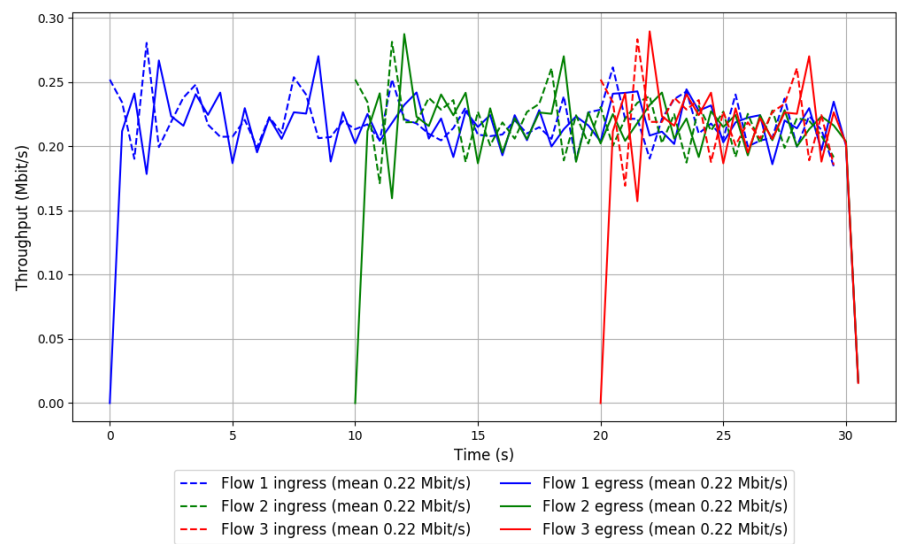
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.779 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-12-20 03:14:17

End at: 2018-12-20 03:14:47

Local clock offset: 0.892 ms

Remote clock offset: 0.135 ms

Below is generated by plot.py at 2018-12-20 07:59:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.44 Mbit/s

95th percentile per-packet one-way delay: 86.586 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.41 Mbit/s

95th percentile per-packet one-way delay: 86.617 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 86.575 ms

Loss rate: 0.00%

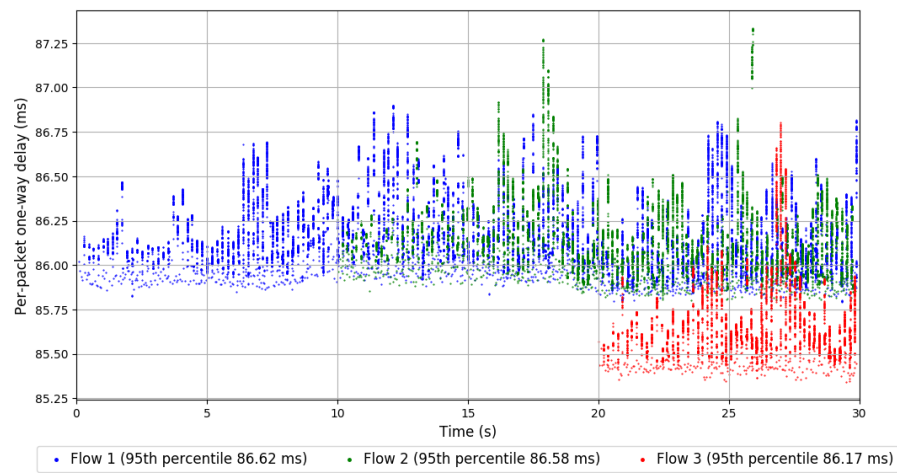
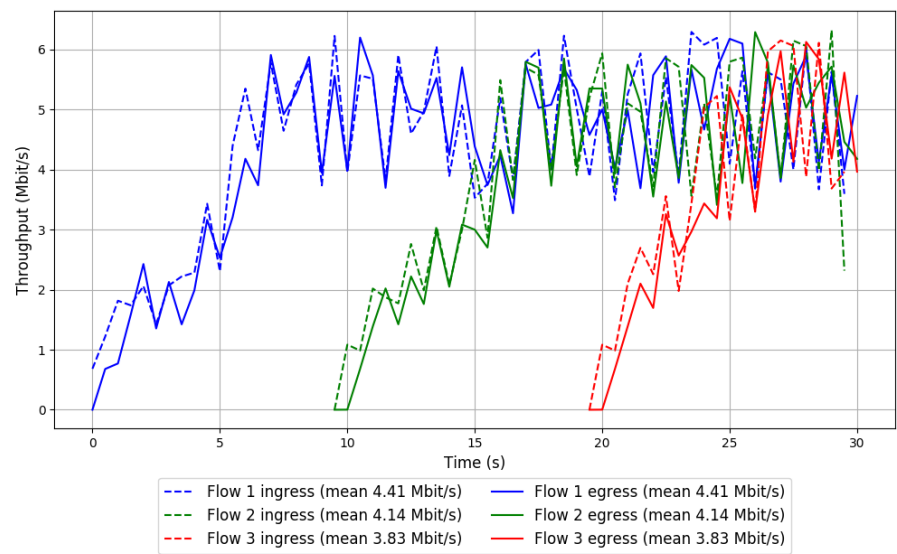
-- Flow 3:

Average throughput: 3.83 Mbit/s

95th percentile per-packet one-way delay: 86.165 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-12-20 03:48:50

End at: 2018-12-20 03:49:20

Local clock offset: 0.007 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-12-20 07:59:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.71 Mbit/s

95th percentile per-packet one-way delay: 86.753 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.59 Mbit/s

95th percentile per-packet one-way delay: 86.469 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.34 Mbit/s

95th percentile per-packet one-way delay: 86.867 ms

Loss rate: 0.00%

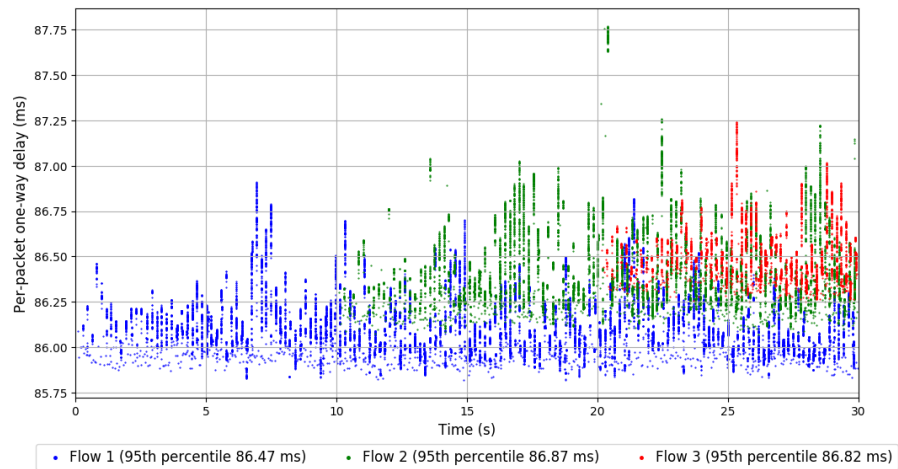
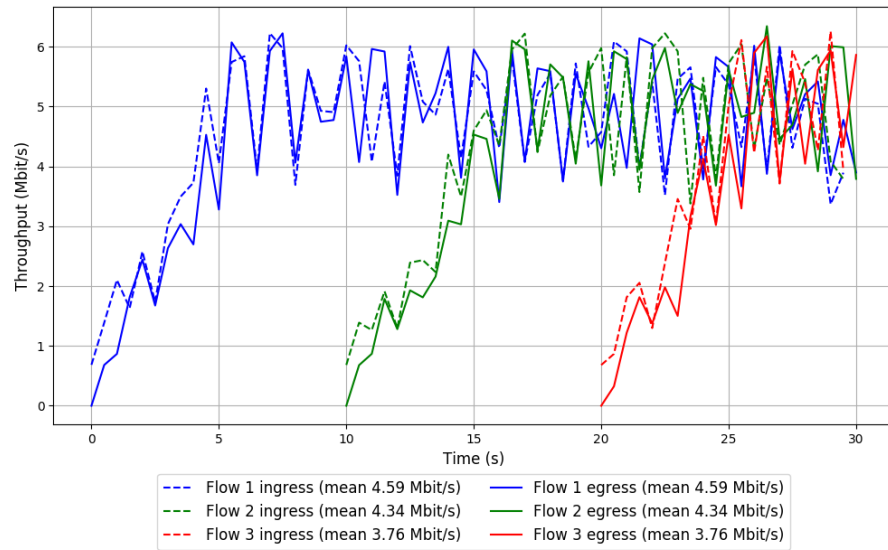
-- Flow 3:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 86.824 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

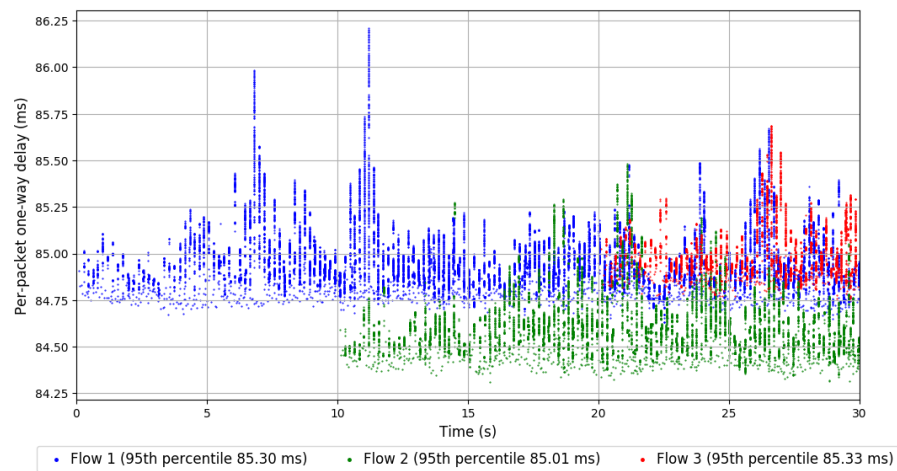
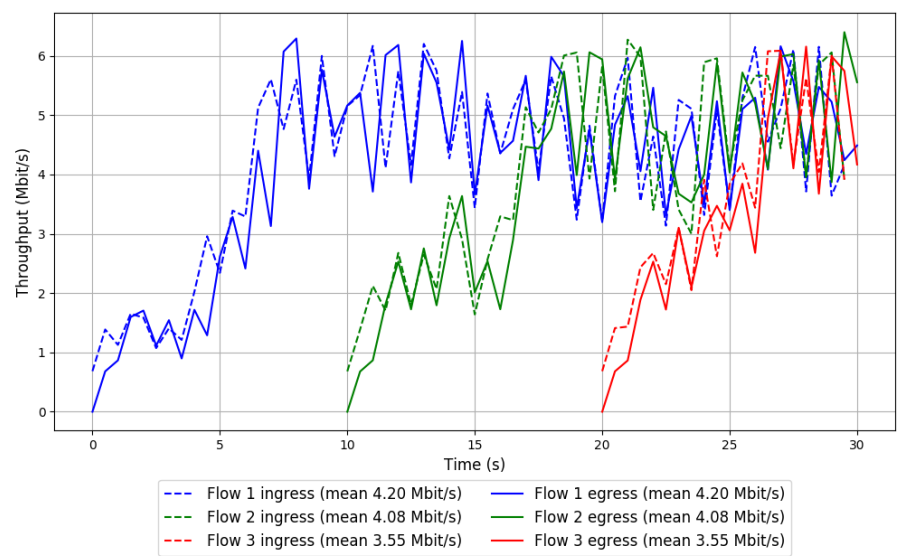


Run 3: Statistics of Sprout

Start at: 2018-12-20 04:22:54
End at: 2018-12-20 04:23:24
Local clock offset: 1.499 ms
Remote clock offset: -0.036 ms

```
# Below is generated by plot.py at 2018-12-20 07:59:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.09 Mbit/s
95th percentile per-packet one-way delay: 85.256 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 85.301 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.08 Mbit/s
95th percentile per-packet one-way delay: 85.008 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.55 Mbit/s
95th percentile per-packet one-way delay: 85.333 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

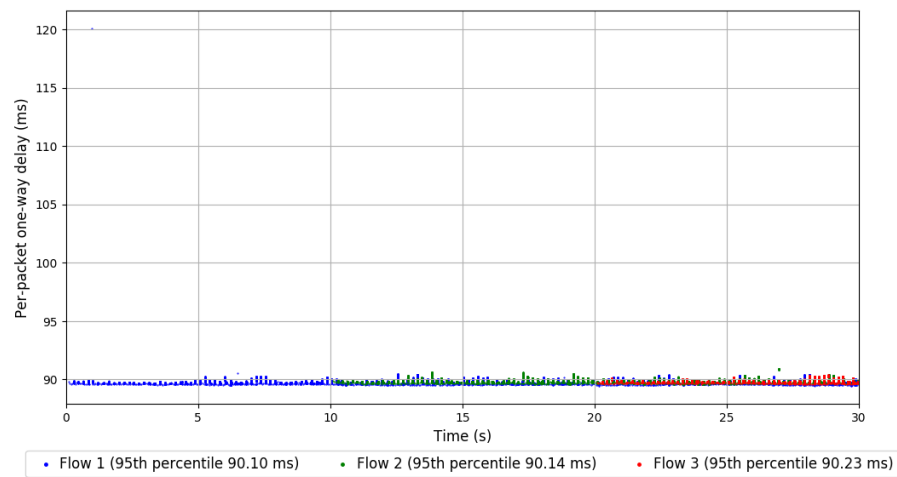
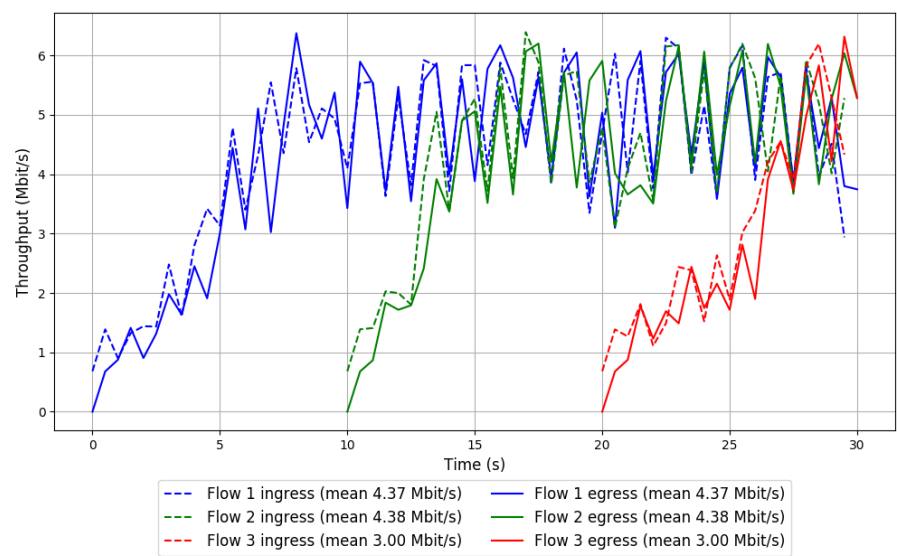


Run 4: Statistics of Sprout

Start at: 2018-12-20 04:56:51
End at: 2018-12-20 04:57:21
Local clock offset: -3.277 ms
Remote clock offset: -0.002 ms

```
# Below is generated by plot.py at 2018-12-20 07:59:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.26 Mbit/s
95th percentile per-packet one-way delay: 90.141 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.37 Mbit/s
95th percentile per-packet one-way delay: 90.098 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.38 Mbit/s
95th percentile per-packet one-way delay: 90.144 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.00 Mbit/s
95th percentile per-packet one-way delay: 90.227 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

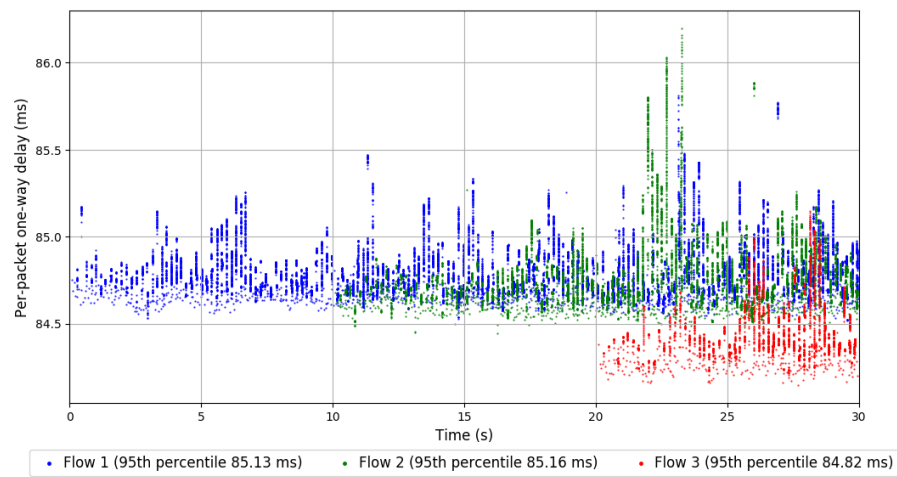
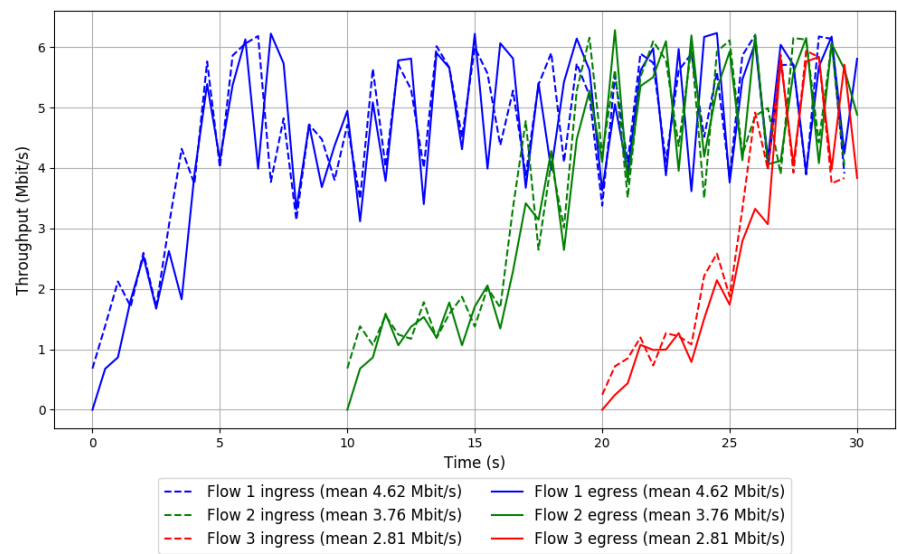


Run 5: Statistics of Sprout

Start at: 2018-12-20 05:31:00
End at: 2018-12-20 05:31:30
Local clock offset: 1.656 ms
Remote clock offset: 0.006 ms

```
# Below is generated by plot.py at 2018-12-20 07:59:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.04 Mbit/s
95th percentile per-packet one-way delay: 85.107 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.62 Mbit/s
95th percentile per-packet one-way delay: 85.127 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.76 Mbit/s
95th percentile per-packet one-way delay: 85.163 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.81 Mbit/s
95th percentile per-packet one-way delay: 84.822 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

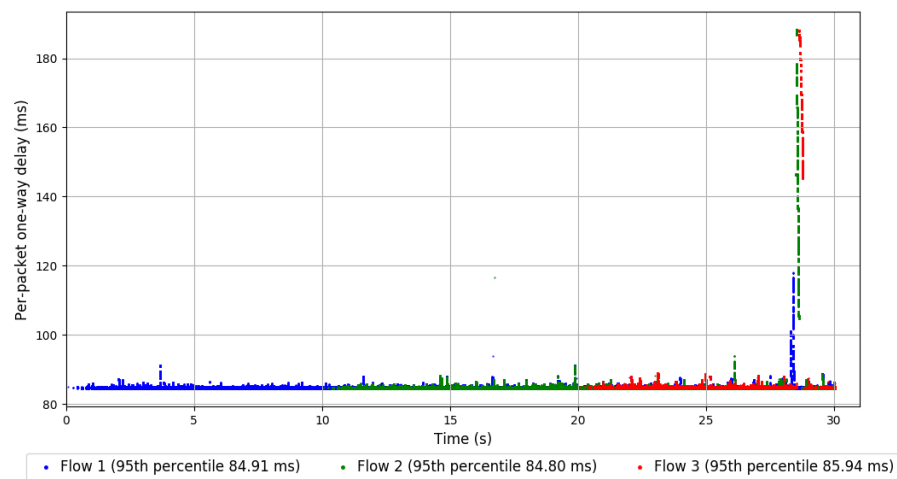
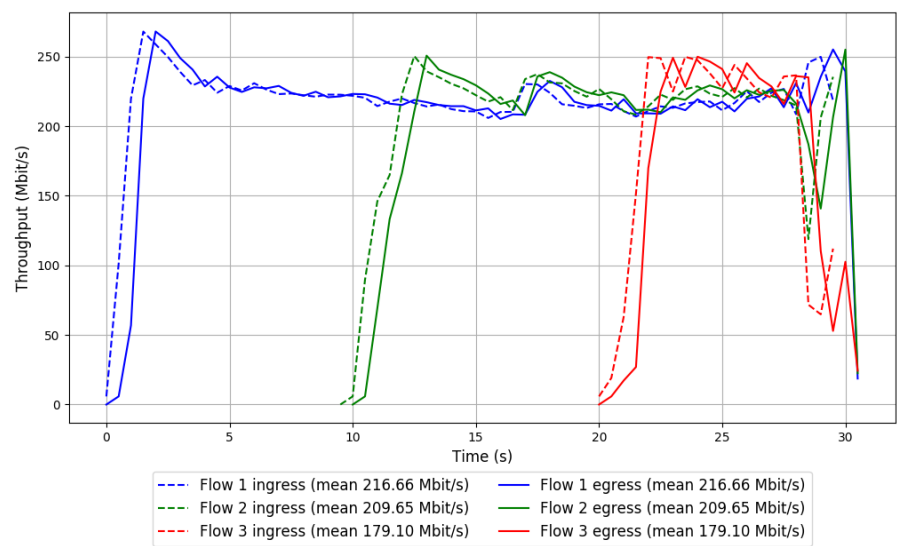


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-12-20 03:01:09
End at: 2018-12-20 03:01:39
Local clock offset: 2.532 ms
Remote clock offset: 0.257 ms

# Below is generated by plot.py at 2018-12-20 08:00:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 415.91 Mbit/s
95th percentile per-packet one-way delay: 84.989 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 216.66 Mbit/s
95th percentile per-packet one-way delay: 84.911 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 209.65 Mbit/s
95th percentile per-packet one-way delay: 84.796 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 179.10 Mbit/s
95th percentile per-packet one-way delay: 85.940 ms
Loss rate: 0.00%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-12-20 03:35:36

End at: 2018-12-20 03:36:06

Local clock offset: 0.021 ms

Remote clock offset: 0.071 ms

Below is generated by plot.py at 2018-12-20 08:01:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 415.36 Mbit/s

95th percentile per-packet one-way delay: 86.809 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 208.32 Mbit/s

95th percentile per-packet one-way delay: 86.828 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 201.06 Mbit/s

95th percentile per-packet one-way delay: 86.694 ms

Loss rate: 0.00%

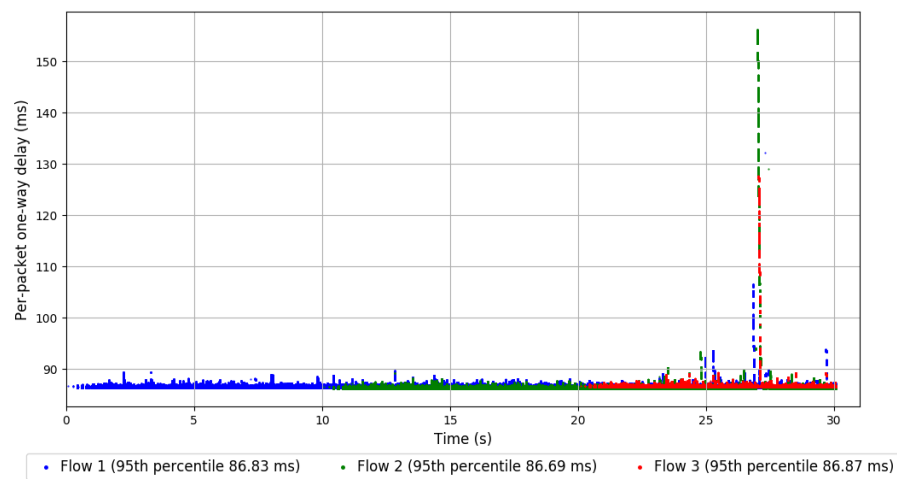
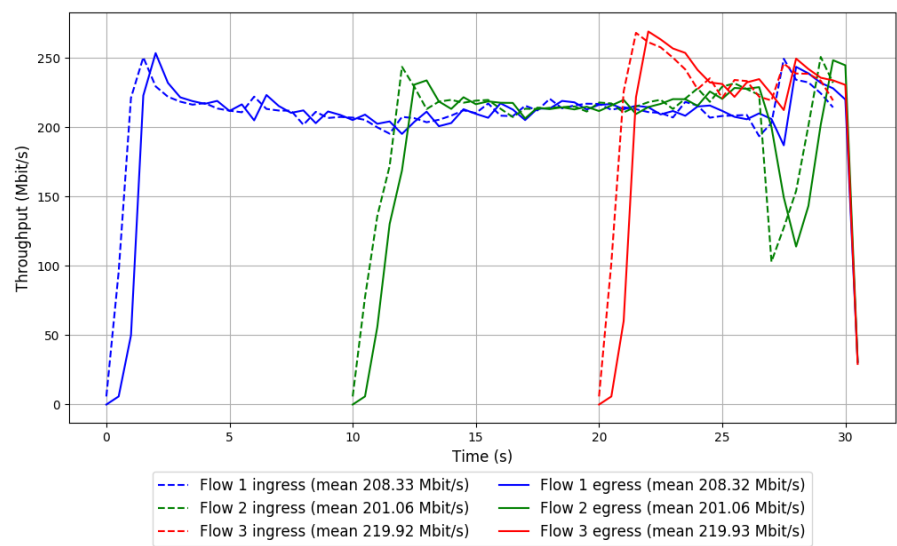
-- Flow 3:

Average throughput: 219.93 Mbit/s

95th percentile per-packet one-way delay: 86.866 ms

Loss rate: 0.00%

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

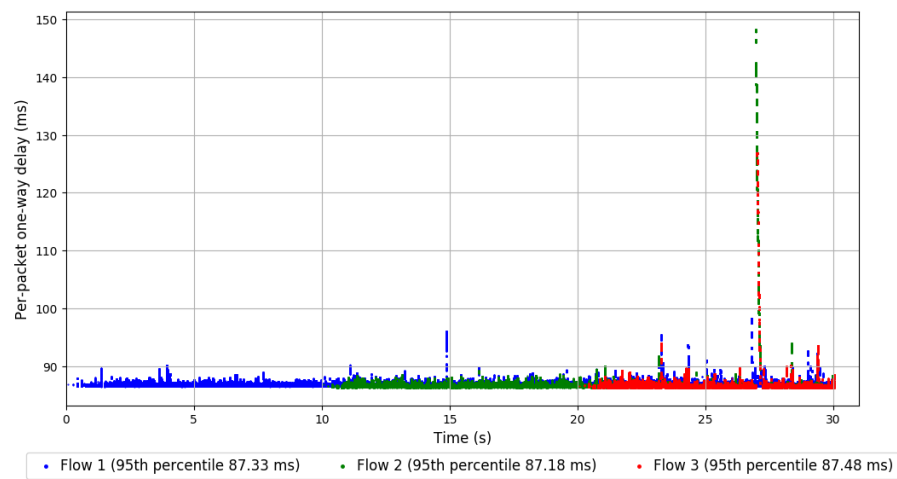
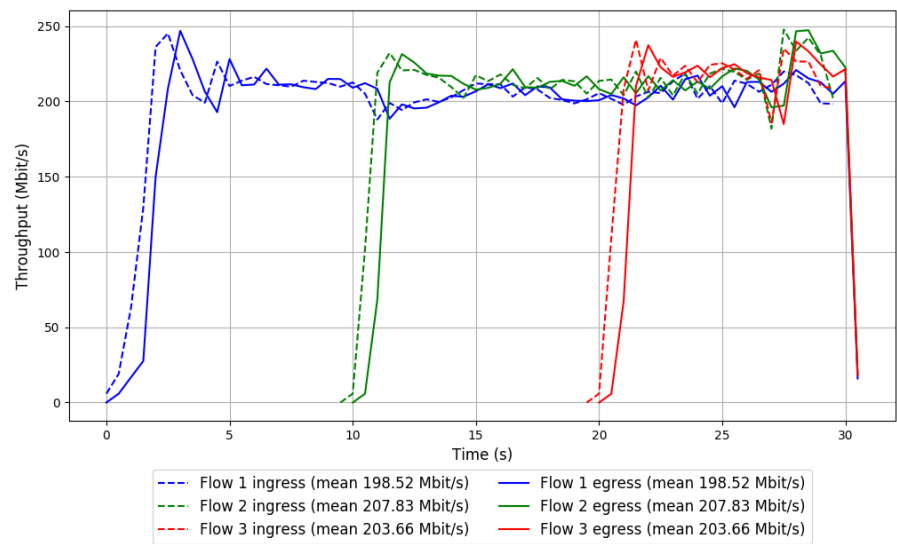


Run 3: Statistics of TaoVA-100x

Start at: 2018-12-20 04:09:50
End at: 2018-12-20 04:10:20
Local clock offset: -0.2 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2018-12-20 08:01:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 404.75 Mbit/s
95th percentile per-packet one-way delay: 87.306 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 198.52 Mbit/s
95th percentile per-packet one-way delay: 87.334 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 207.83 Mbit/s
95th percentile per-packet one-way delay: 87.179 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 203.66 Mbit/s
95th percentile per-packet one-way delay: 87.485 ms
Loss rate: 0.00%

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

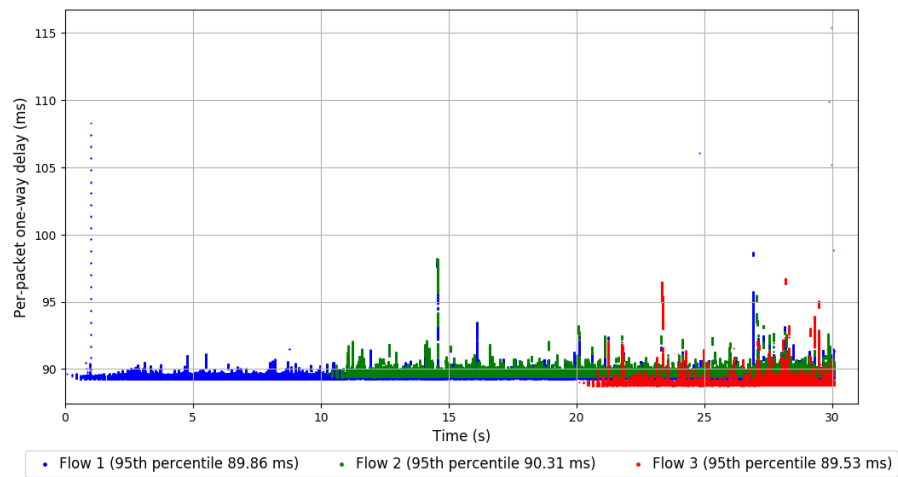
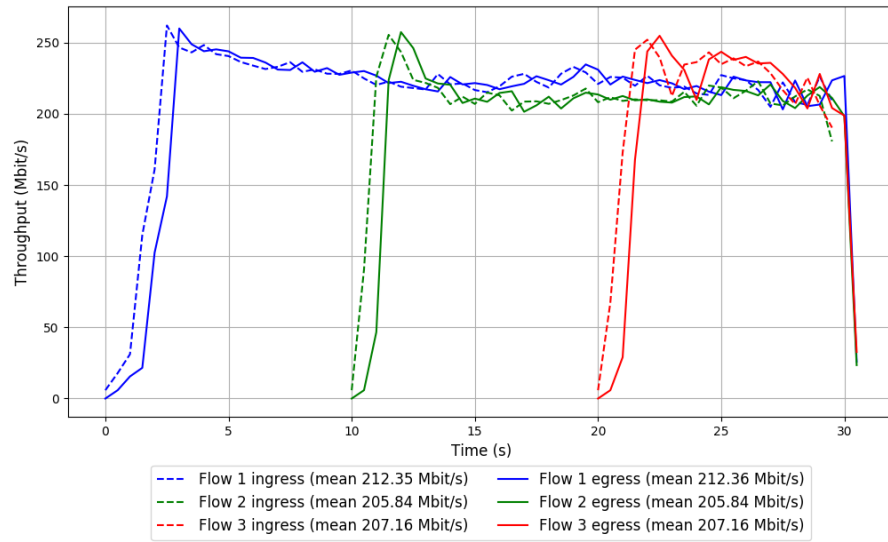


Run 4: Statistics of TaoVA-100x

Start at: 2018-12-20 04:43:33
End at: 2018-12-20 04:44:03
Local clock offset: -3.041 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2018-12-20 08:01:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 418.23 Mbit/s
95th percentile per-packet one-way delay: 90.064 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 212.36 Mbit/s
95th percentile per-packet one-way delay: 89.855 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 205.84 Mbit/s
95th percentile per-packet one-way delay: 90.310 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 207.16 Mbit/s
95th percentile per-packet one-way delay: 89.531 ms
Loss rate: 0.00%

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

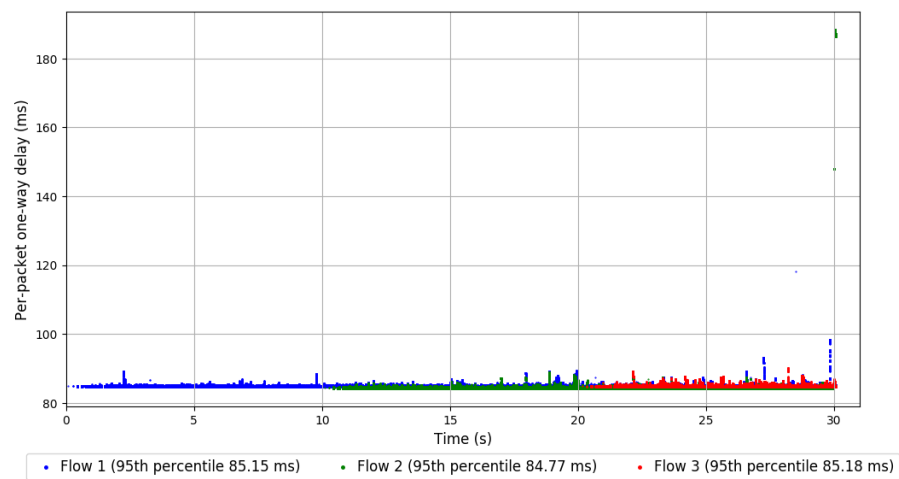
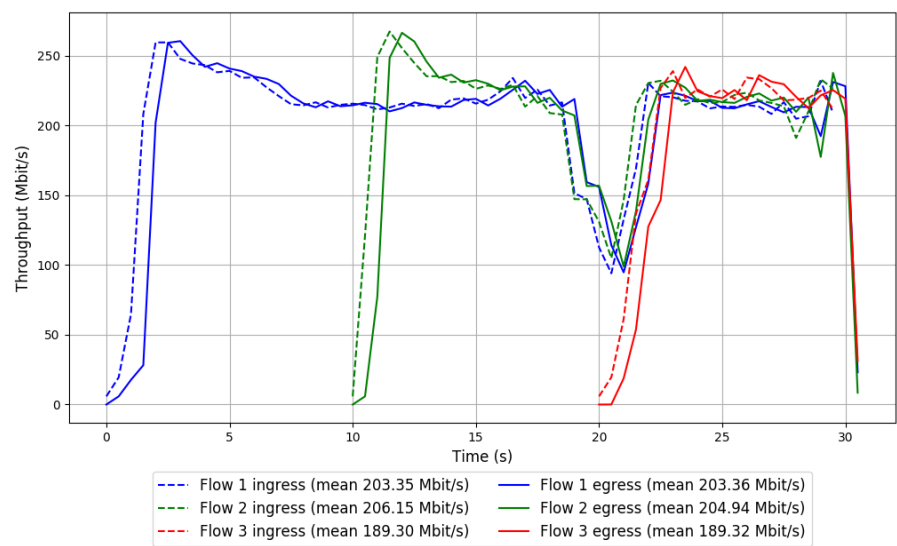


Run 5: Statistics of TaoVA-100x

Start at: 2018-12-20 05:17:40
End at: 2018-12-20 05:18:10
Local clock offset: 1.474 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-12-20 08:01:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 402.35 Mbit/s
95th percentile per-packet one-way delay: 85.086 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 203.36 Mbit/s
95th percentile per-packet one-way delay: 85.148 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 204.94 Mbit/s
95th percentile per-packet one-way delay: 84.768 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 189.32 Mbit/s
95th percentile per-packet one-way delay: 85.181 ms
Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-12-20 03:20:48

End at: 2018-12-20 03:21:18

Local clock offset: -1.197 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2018-12-20 08:03:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 798.32 Mbit/s

95th percentile per-packet one-way delay: 130.680 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 454.40 Mbit/s

95th percentile per-packet one-way delay: 139.558 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 323.50 Mbit/s

95th percentile per-packet one-way delay: 89.728 ms

Loss rate: 0.00%

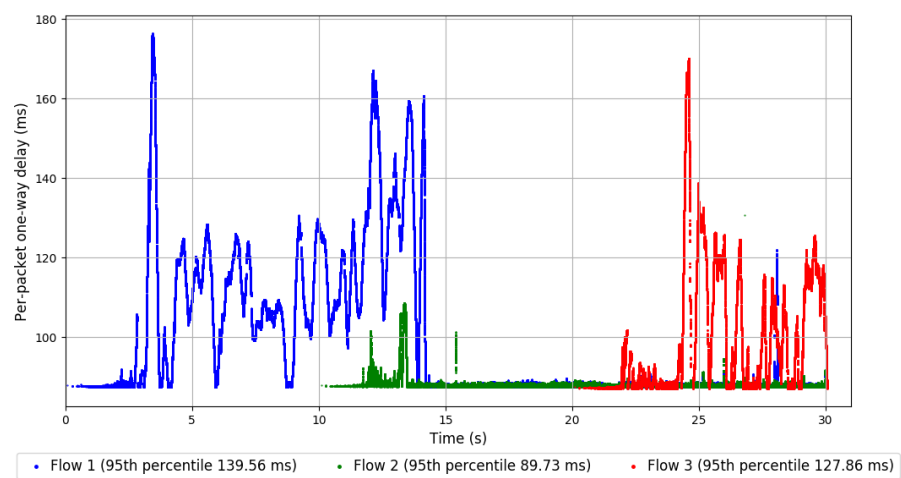
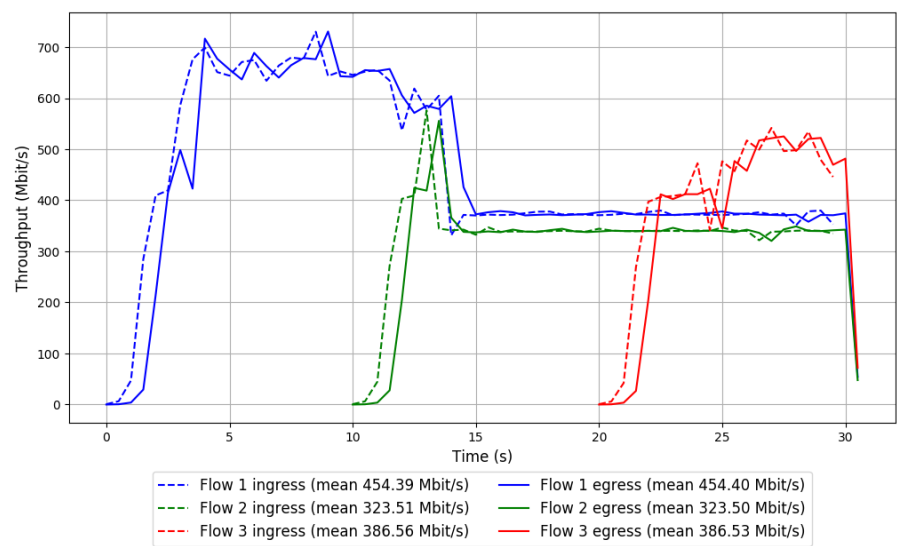
-- Flow 3:

Average throughput: 386.53 Mbit/s

95th percentile per-packet one-way delay: 127.862 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link

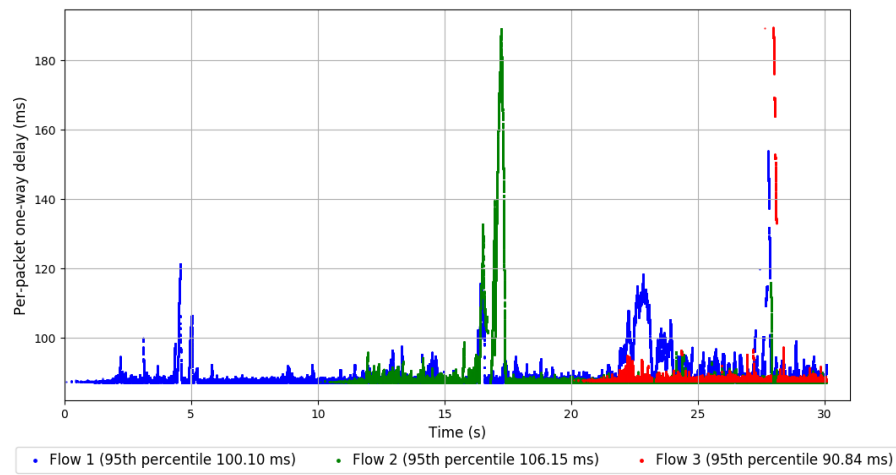
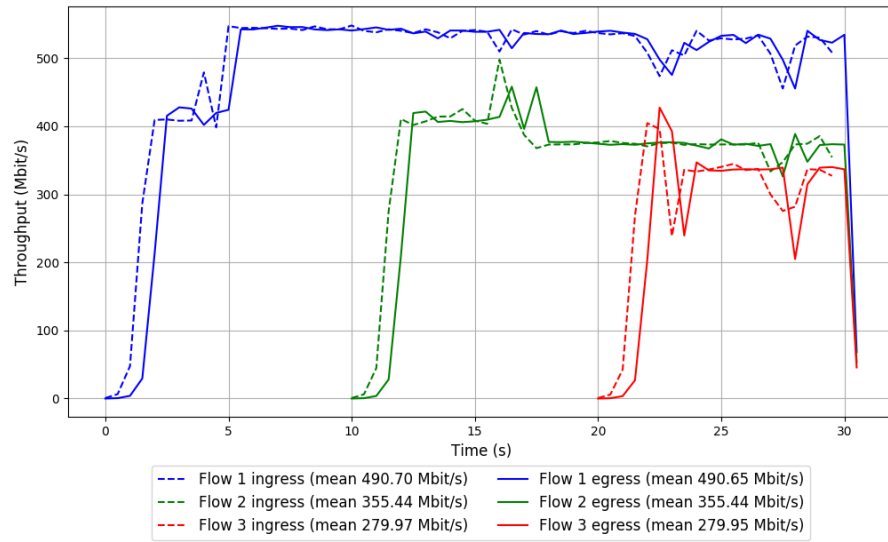


Run 2: Statistics of TCP Vegas

Start at: 2018-12-20 03:55:15
End at: 2018-12-20 03:55:45
Local clock offset: -1.49 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2018-12-20 08:11:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 820.43 Mbit/s
95th percentile per-packet one-way delay: 99.928 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 490.65 Mbit/s
95th percentile per-packet one-way delay: 100.103 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 355.44 Mbit/s
95th percentile per-packet one-way delay: 106.152 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 279.95 Mbit/s
95th percentile per-packet one-way delay: 90.839 ms
Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link

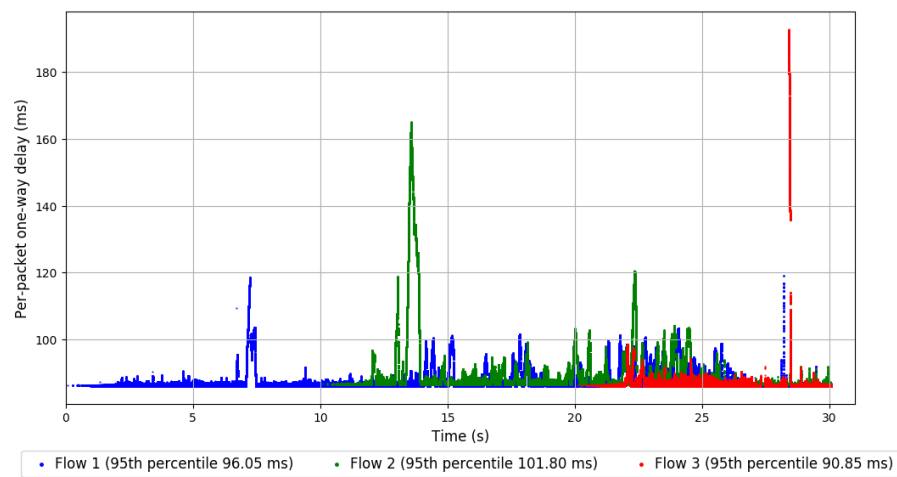
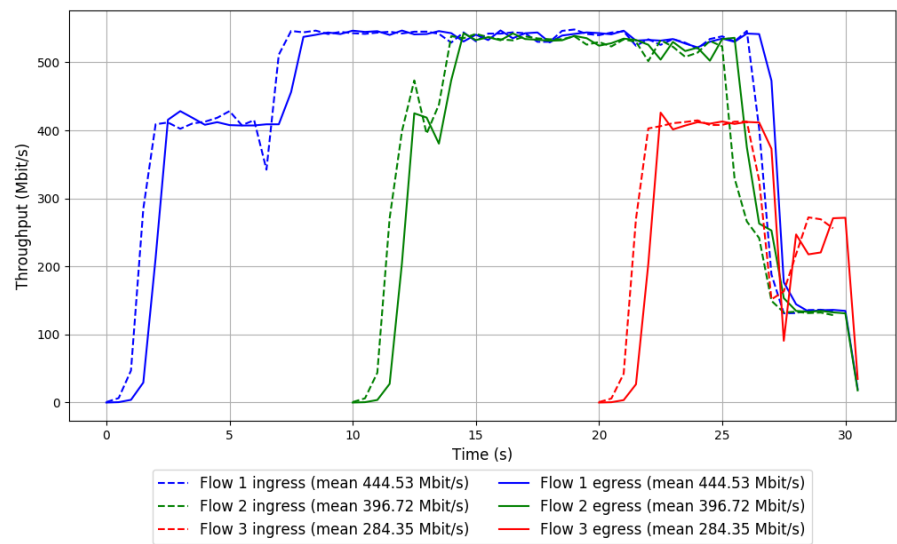


Run 3: Statistics of TCP Vegas

Start at: 2018-12-20 04:29:16
End at: 2018-12-20 04:29:46
Local clock offset: 0.114 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-12-20 08:14:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 803.27 Mbit/s
95th percentile per-packet one-way delay: 97.270 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 444.53 Mbit/s
95th percentile per-packet one-way delay: 96.047 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 396.72 Mbit/s
95th percentile per-packet one-way delay: 101.804 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 284.35 Mbit/s
95th percentile per-packet one-way delay: 90.849 ms
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link

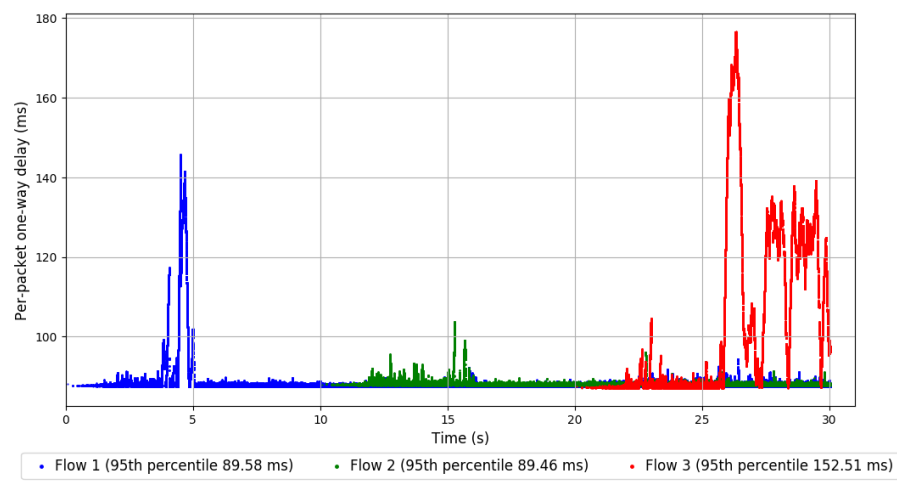
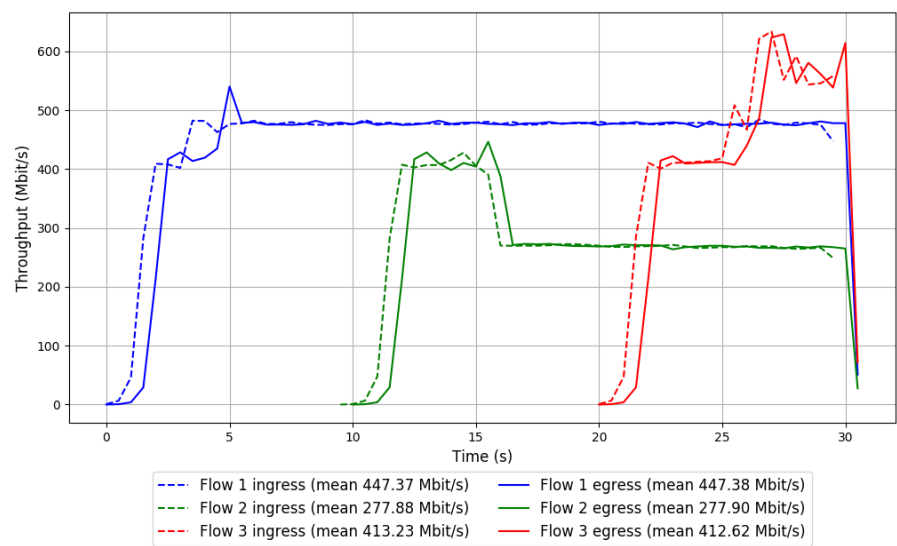


Run 4: Statistics of TCP Vegas

Start at: 2018-12-20 05:03:16
End at: 2018-12-20 05:03:46
Local clock offset: -1.397 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2018-12-20 08:14:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 769.80 Mbit/s
95th percentile per-packet one-way delay: 124.075 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 447.38 Mbit/s
95th percentile per-packet one-way delay: 89.580 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 277.90 Mbit/s
95th percentile per-packet one-way delay: 89.458 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 412.62 Mbit/s
95th percentile per-packet one-way delay: 152.511 ms
Loss rate: 0.15%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-12-20 05:37:21

End at: 2018-12-20 05:37:51

Local clock offset: 1.361 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-12-20 08:15:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 839.77 Mbit/s

95th percentile per-packet one-way delay: 94.733 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 503.00 Mbit/s

95th percentile per-packet one-way delay: 94.493 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 340.56 Mbit/s

95th percentile per-packet one-way delay: 87.142 ms

Loss rate: 0.00%

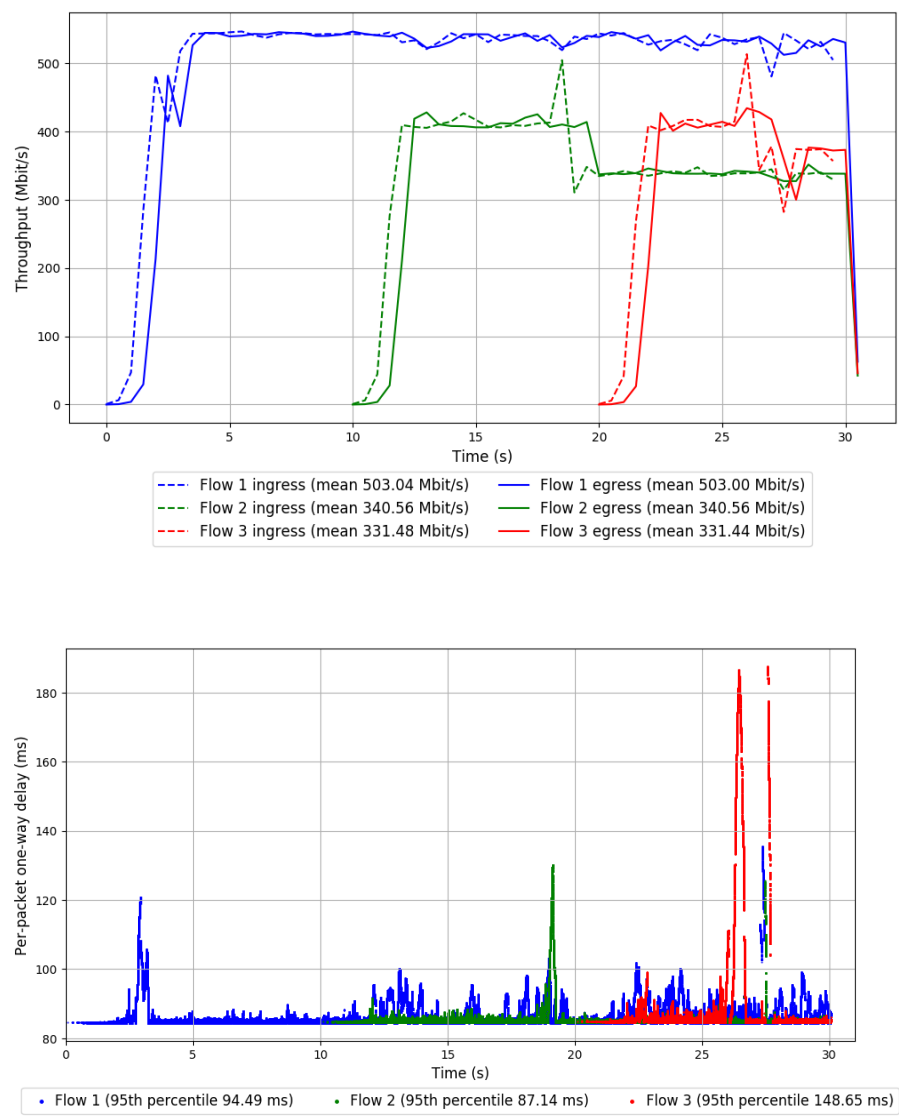
-- Flow 3:

Average throughput: 331.44 Mbit/s

95th percentile per-packet one-way delay: 148.650 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-12-20 03:24:00

End at: 2018-12-20 03:24:30

Local clock offset: 1.277 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2018-12-20 08:15:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 294.88 Mbit/s

95th percentile per-packet one-way delay: 223.244 ms

Loss rate: 1.89%

-- Flow 1:

Average throughput: 156.74 Mbit/s

95th percentile per-packet one-way delay: 215.166 ms

Loss rate: 1.67%

-- Flow 2:

Average throughput: 185.74 Mbit/s

95th percentile per-packet one-way delay: 228.128 ms

Loss rate: 2.40%

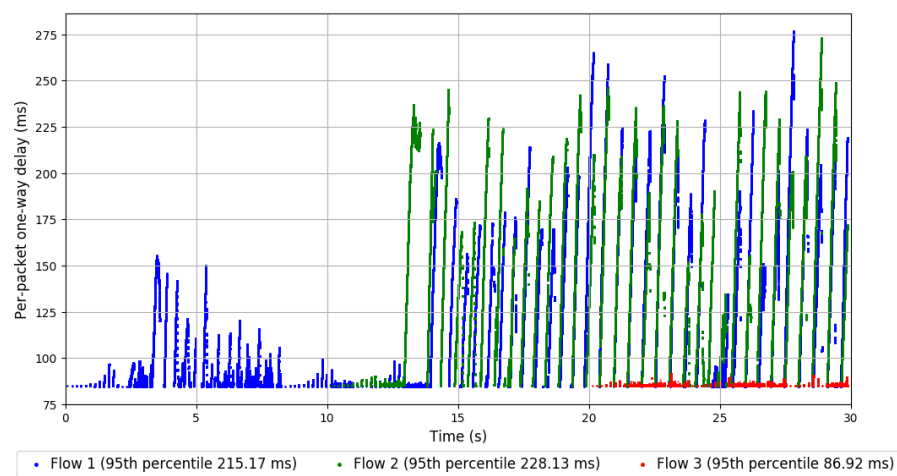
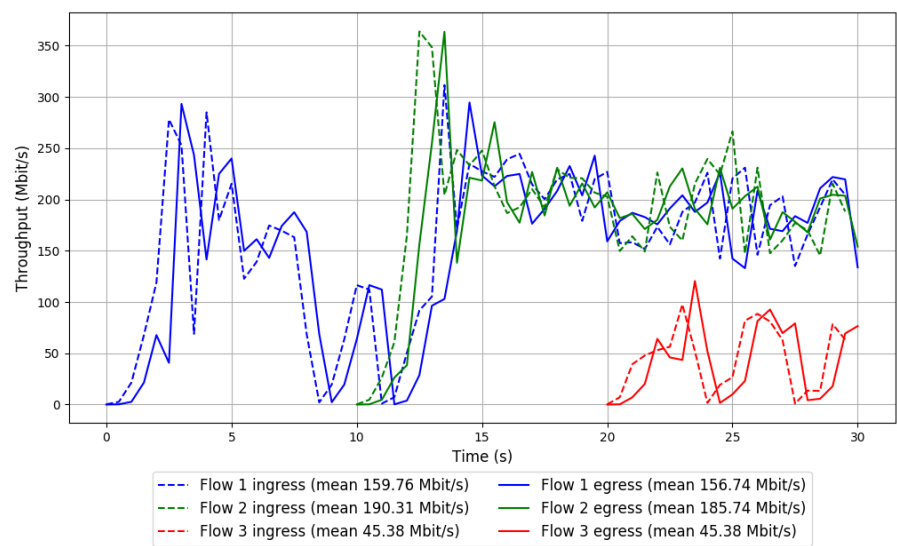
-- Flow 3:

Average throughput: 45.38 Mbit/s

95th percentile per-packet one-way delay: 86.921 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link

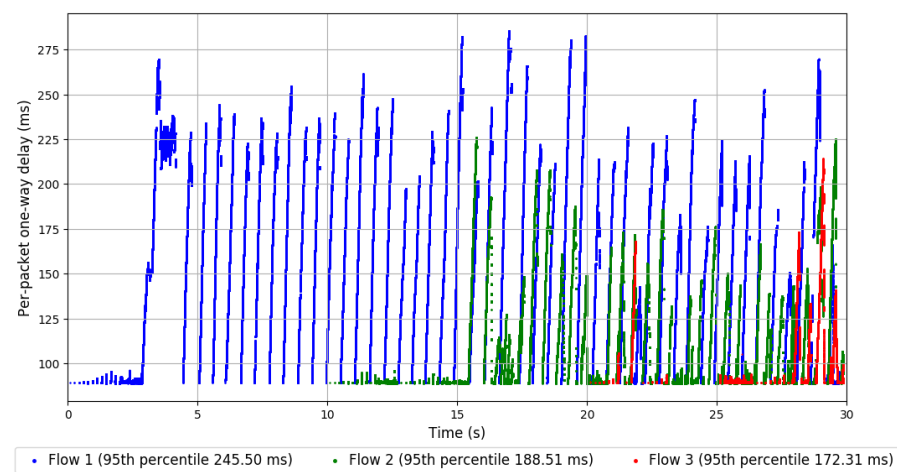
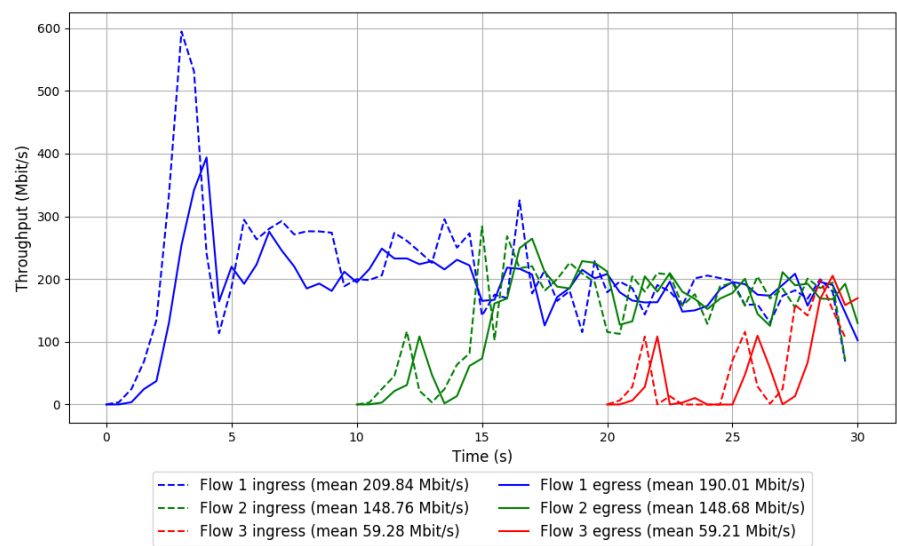


Run 2: Statistics of Verus

Start at: 2018-12-20 03:58:29
End at: 2018-12-20 03:58:59
Local clock offset: -3.272 ms
Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-12-20 08:15:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 307.03 Mbit/s
95th percentile per-packet one-way delay: 235.270 ms
Loss rate: 6.04%
-- Flow 1:
Average throughput: 190.01 Mbit/s
95th percentile per-packet one-way delay: 245.503 ms
Loss rate: 9.43%
-- Flow 2:
Average throughput: 148.68 Mbit/s
95th percentile per-packet one-way delay: 188.512 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 59.21 Mbit/s
95th percentile per-packet one-way delay: 172.306 ms
Loss rate: 0.11%

Run 2: Report of Verus — Data Link

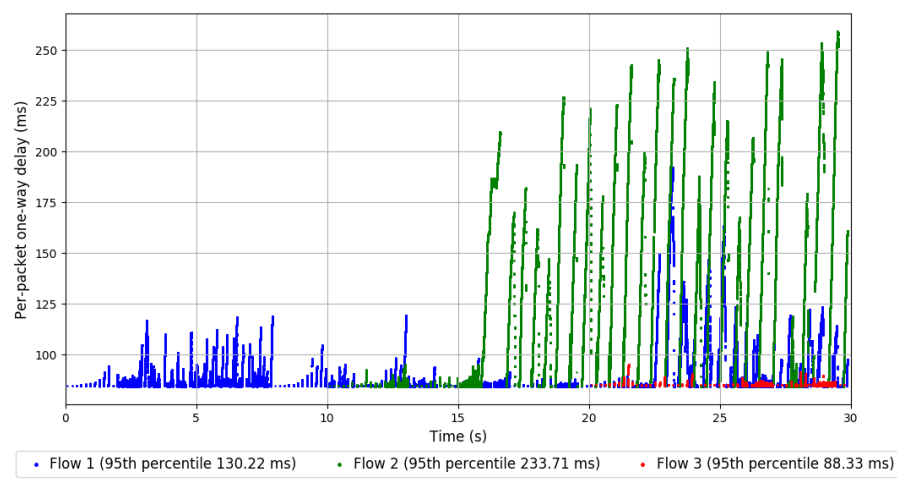
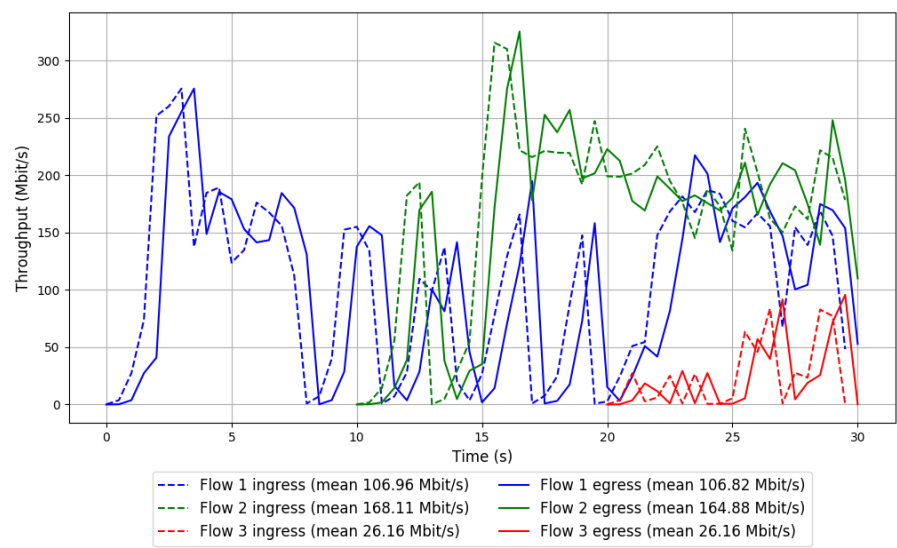


Run 3: Statistics of Verus

Start at: 2018-12-20 04:32:30
End at: 2018-12-20 04:33:00
Local clock offset: 1.582 ms
Remote clock offset: -0.054 ms

Below is generated by plot.py at 2018-12-20 08:15:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 224.77 Mbit/s
95th percentile per-packet one-way delay: 215.098 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 106.82 Mbit/s
95th percentile per-packet one-way delay: 130.218 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 164.88 Mbit/s
95th percentile per-packet one-way delay: 233.713 ms
Loss rate: 1.91%
-- Flow 3:
Average throughput: 26.16 Mbit/s
95th percentile per-packet one-way delay: 88.327 ms
Loss rate: 0.00%

Run 3: Report of Verus — Data Link

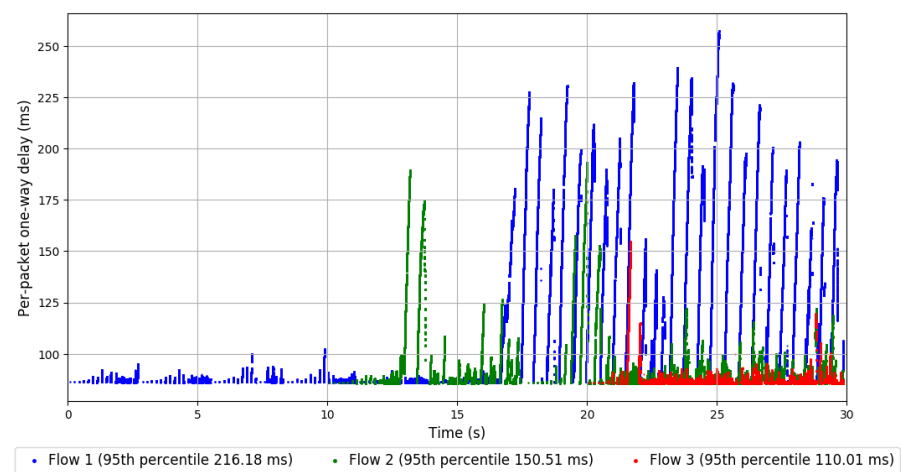
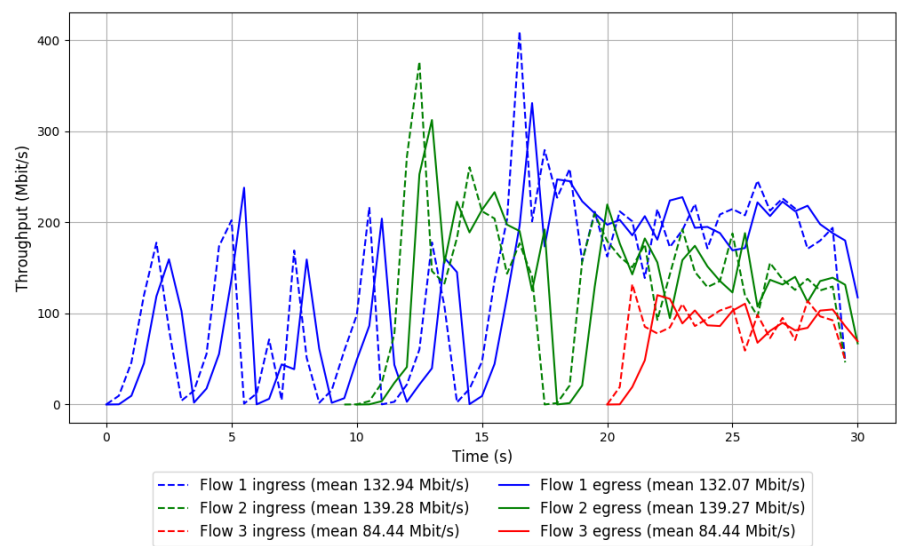


Run 4: Statistics of Verus

Start at: 2018-12-20 05:06:26
End at: 2018-12-20 05:06:56
Local clock offset: -0.038 ms
Remote clock offset: -0.019 ms

Below is generated by plot.py at 2018-12-20 08:15:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 252.29 Mbit/s
95th percentile per-packet one-way delay: 199.059 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 132.07 Mbit/s
95th percentile per-packet one-way delay: 216.177 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 139.27 Mbit/s
95th percentile per-packet one-way delay: 150.511 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 84.44 Mbit/s
95th percentile per-packet one-way delay: 110.008 ms
Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-12-20 05:40:35

End at: 2018-12-20 05:41:05

Local clock offset: -3.08 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-12-20 08:17:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 272.55 Mbit/s

95th percentile per-packet one-way delay: 239.372 ms

Loss rate: 2.05%

-- Flow 1:

Average throughput: 175.67 Mbit/s

95th percentile per-packet one-way delay: 244.109 ms

Loss rate: 3.16%

-- Flow 2:

Average throughput: 111.40 Mbit/s

95th percentile per-packet one-way delay: 147.426 ms

Loss rate: 0.00%

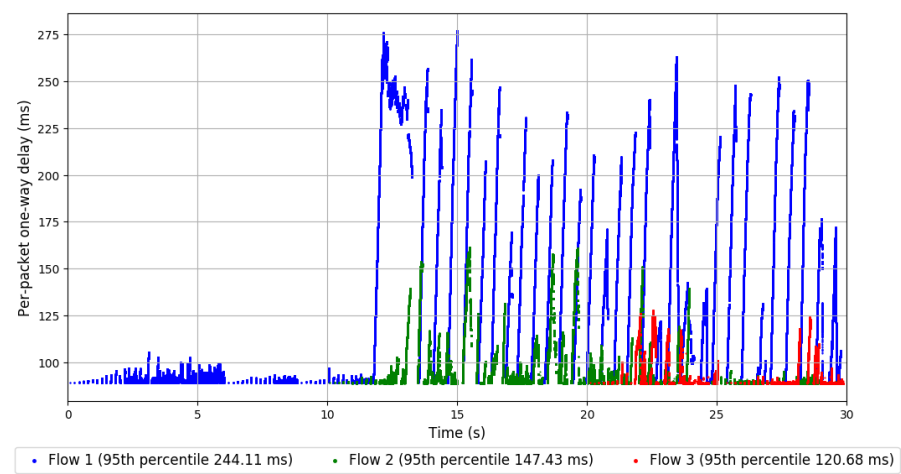
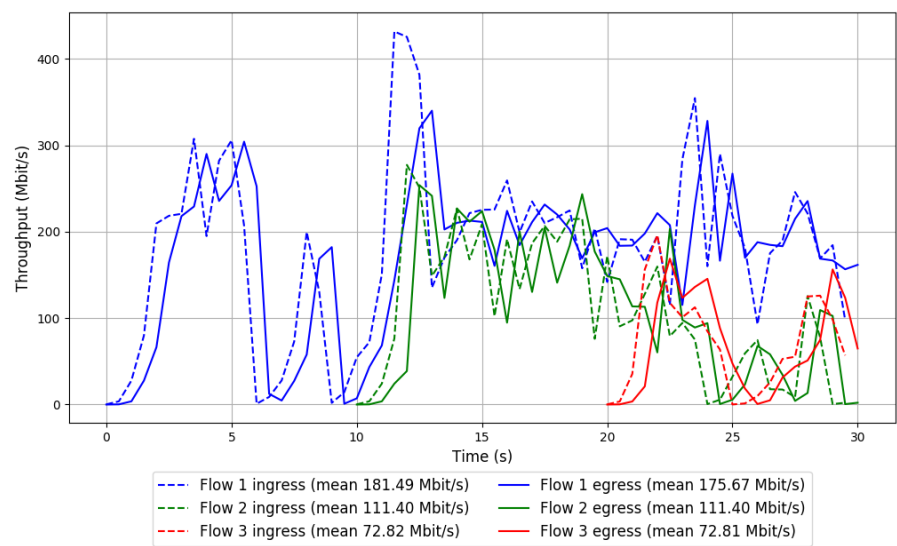
-- Flow 3:

Average throughput: 72.81 Mbit/s

95th percentile per-packet one-way delay: 120.680 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-12-20 03:17:39

End at: 2018-12-20 03:18:09

Local clock offset: 1.78 ms

Remote clock offset: 0.106 ms

Below is generated by plot.py at 2018-12-20 08:19:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 509.03 Mbit/s

95th percentile per-packet one-way delay: 85.957 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 314.93 Mbit/s

95th percentile per-packet one-way delay: 86.538 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 219.42 Mbit/s

95th percentile per-packet one-way delay: 85.634 ms

Loss rate: 0.00%

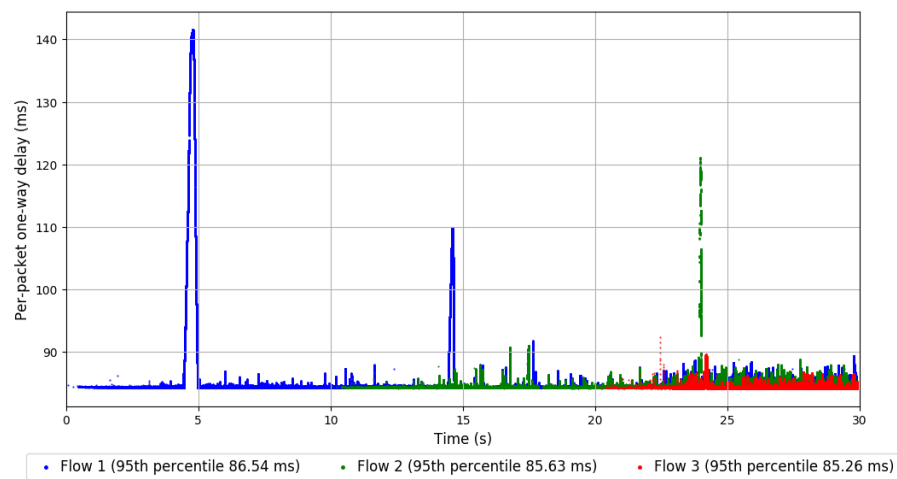
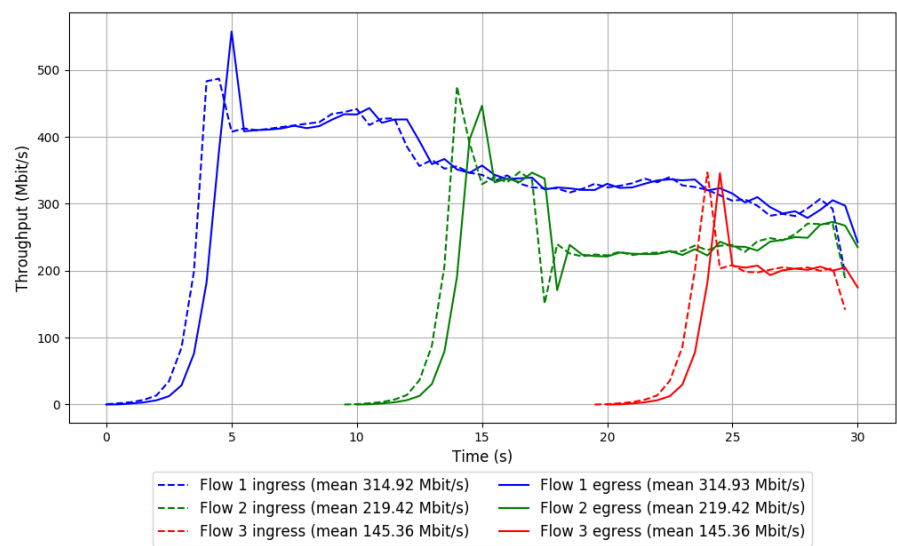
-- Flow 3:

Average throughput: 145.36 Mbit/s

95th percentile per-packet one-way delay: 85.264 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link

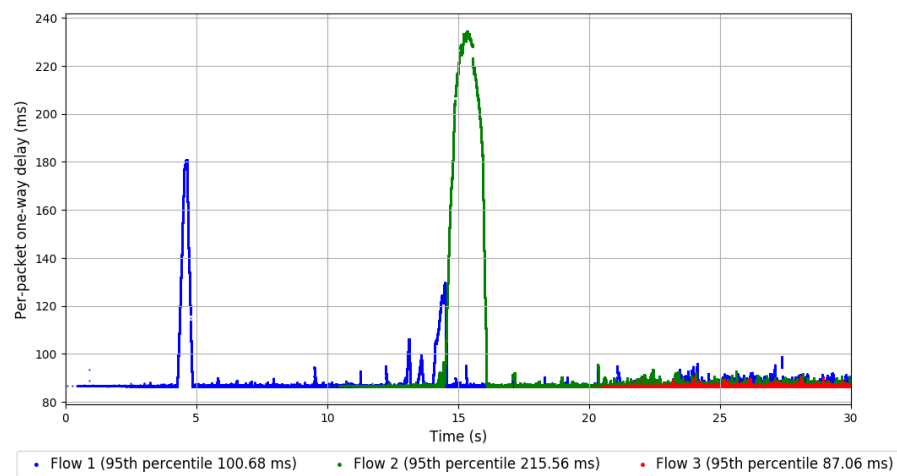
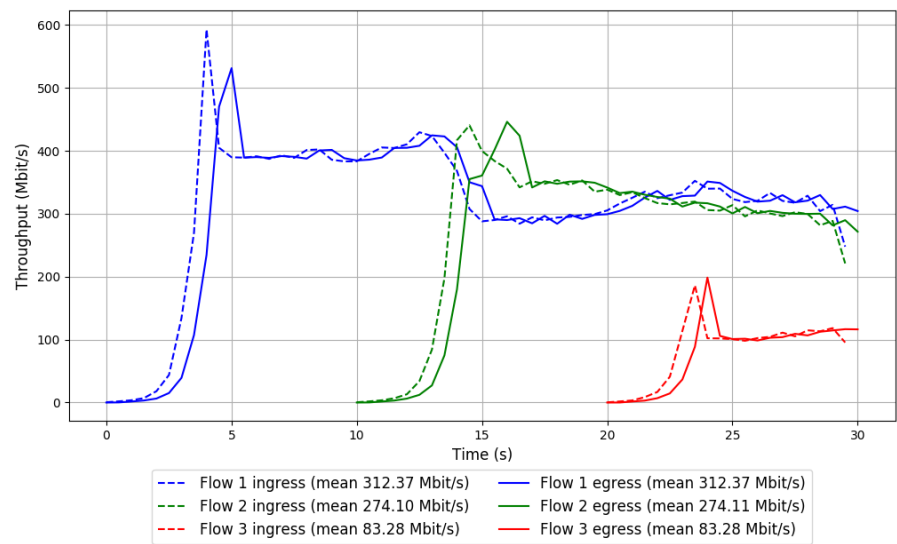


Run 2: Statistics of PCC-Vivace

Start at: 2018-12-20 03:52:07
End at: 2018-12-20 03:52:37
Local clock offset: -0.274 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-12-20 08:19:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 522.06 Mbit/s
95th percentile per-packet one-way delay: 128.693 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 312.37 Mbit/s
95th percentile per-packet one-way delay: 100.679 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 274.11 Mbit/s
95th percentile per-packet one-way delay: 215.560 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 83.28 Mbit/s
95th percentile per-packet one-way delay: 87.065 ms
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link

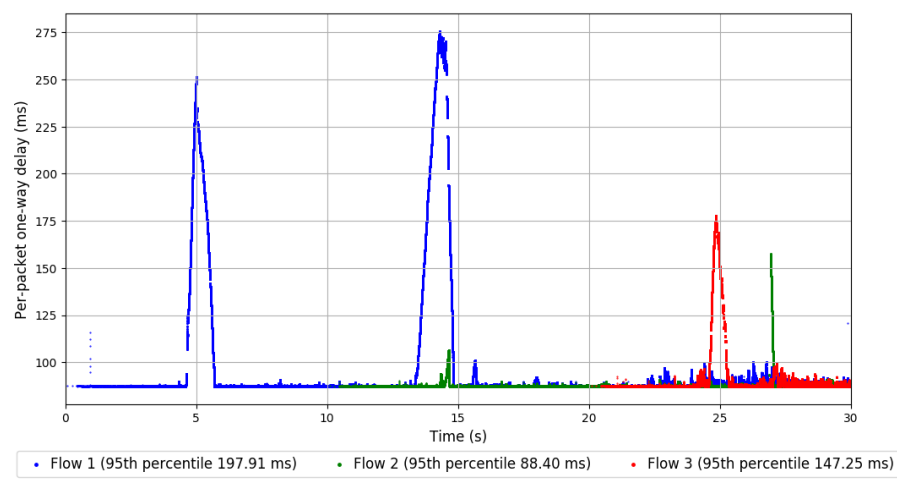
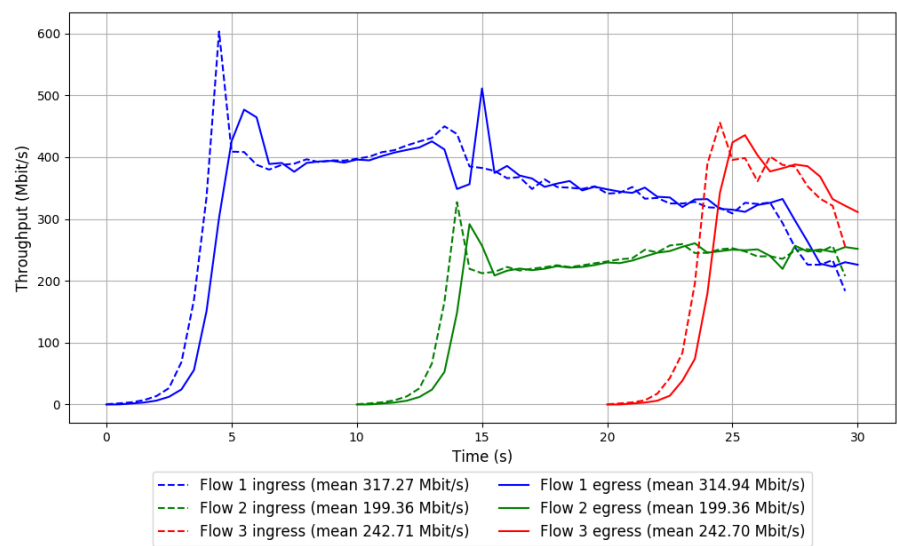


Run 3: Statistics of PCC-Vivace

Start at: 2018-12-20 04:26:07
End at: 2018-12-20 04:26:37
Local clock offset: -1.498 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2018-12-20 08:19:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 527.61 Mbit/s
95th percentile per-packet one-way delay: 159.528 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 314.94 Mbit/s
95th percentile per-packet one-way delay: 197.914 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 199.36 Mbit/s
95th percentile per-packet one-way delay: 88.397 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 242.70 Mbit/s
95th percentile per-packet one-way delay: 147.252 ms
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link

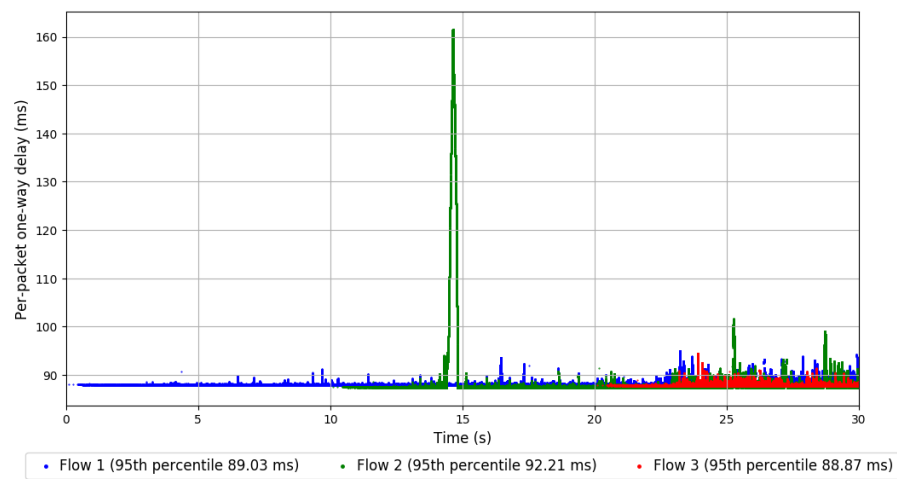
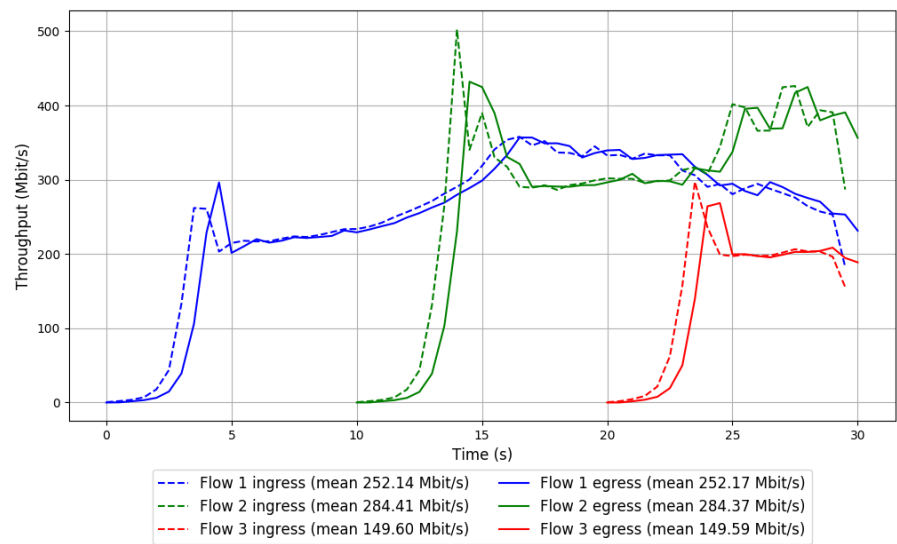


Run 4: Statistics of PCC-Vivace

Start at: 2018-12-20 05:00:10
End at: 2018-12-20 05:00:40
Local clock offset: -1.669 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-12-20 08:19:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 490.53 Mbit/s
95th percentile per-packet one-way delay: 89.754 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 252.17 Mbit/s
95th percentile per-packet one-way delay: 89.025 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 284.37 Mbit/s
95th percentile per-packet one-way delay: 92.209 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 149.59 Mbit/s
95th percentile per-packet one-way delay: 88.870 ms
Loss rate: 0.01%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-12-20 05:34:19

End at: 2018-12-20 05:34:49

Local clock offset: 0.202 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2018-12-20 08:19:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 444.56 Mbit/s

95th percentile per-packet one-way delay: 90.489 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 255.94 Mbit/s

95th percentile per-packet one-way delay: 88.156 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 209.36 Mbit/s

95th percentile per-packet one-way delay: 111.604 ms

Loss rate: 0.00%

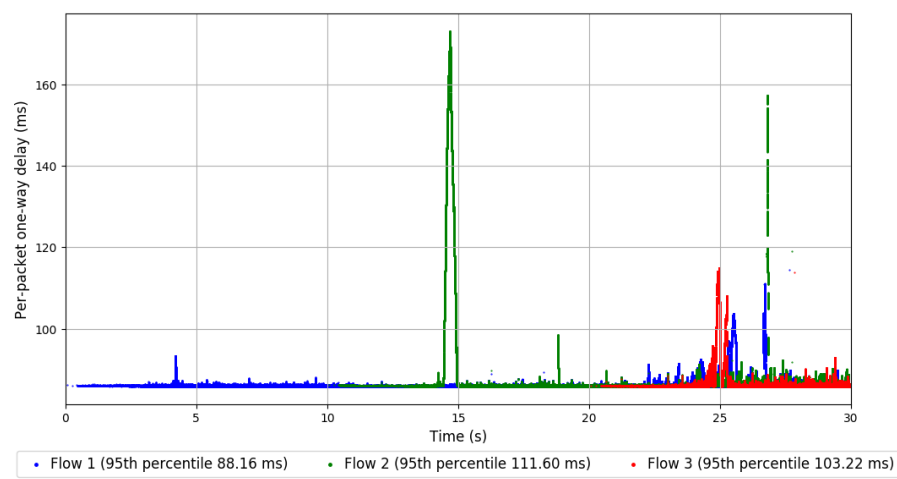
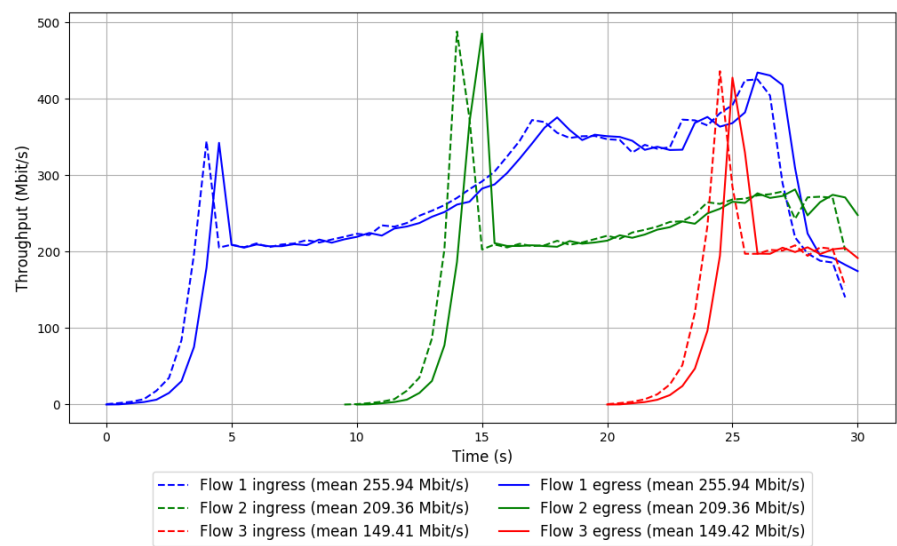
-- Flow 3:

Average throughput: 149.42 Mbit/s

95th percentile per-packet one-way delay: 103.222 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

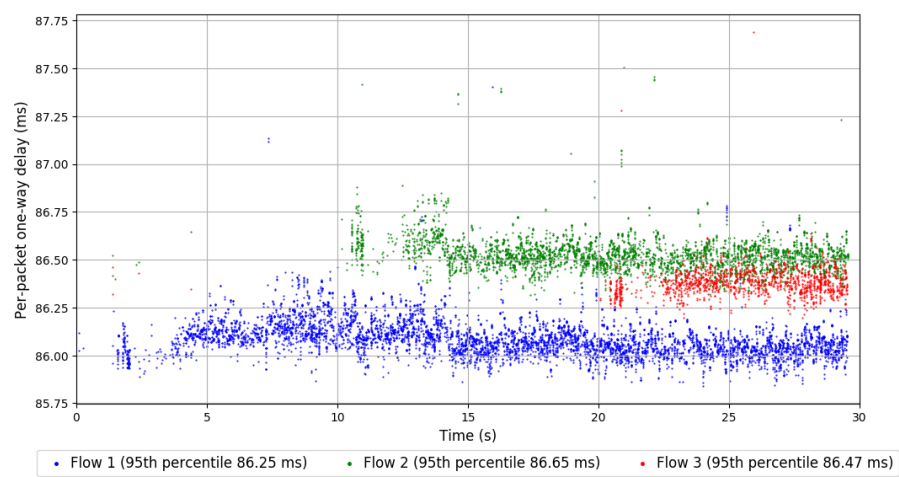
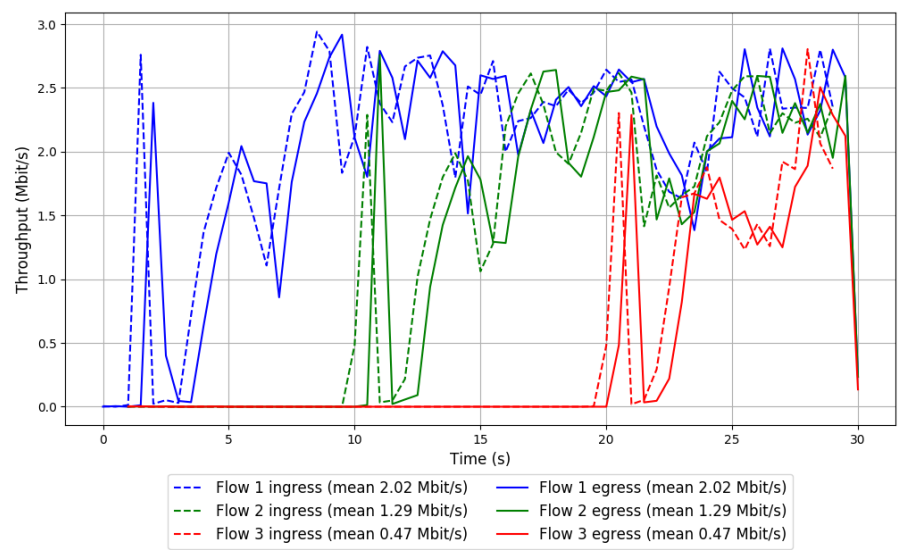


```
Run 1: Statistics of WebRTC media

Start at: 2018-12-20 03:19:32
End at: 2018-12-20 03:20:02
Local clock offset: 0.113 ms
Remote clock offset: 0.068 ms

# Below is generated by plot.py at 2018-12-20 08:19:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.71 Mbit/s
95th percentile per-packet one-way delay: 86.598 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 86.253 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 86.653 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 86.475 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

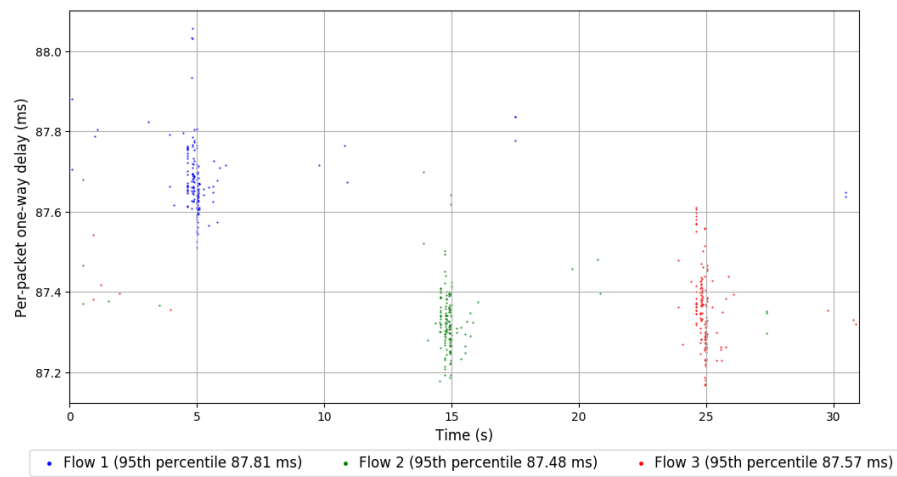
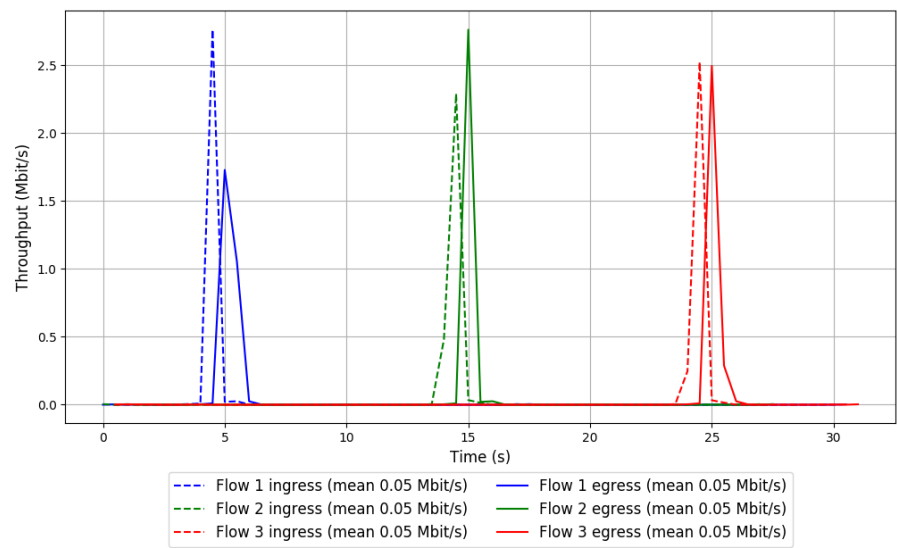


Run 2: Statistics of WebRTC media

Start at: 2018-12-20 03:54:01
End at: 2018-12-20 03:54:31
Local clock offset: -1.426 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2018-12-20 08:19:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 87.763 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.808 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.482 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.570 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

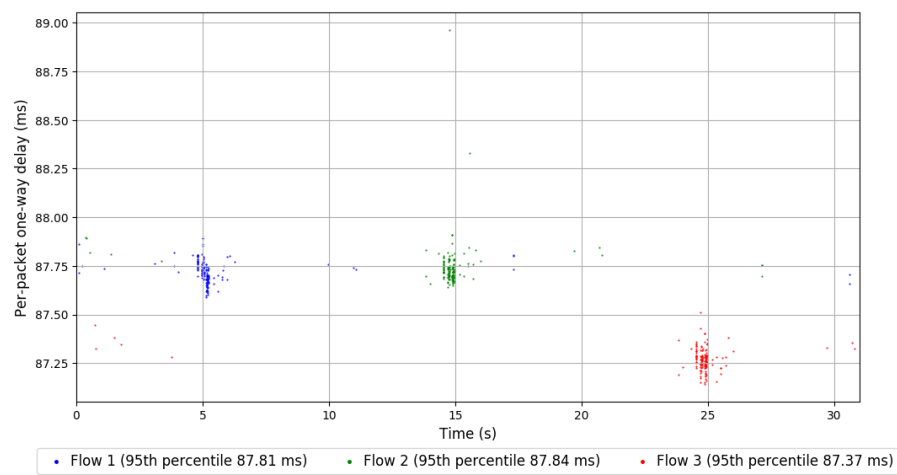
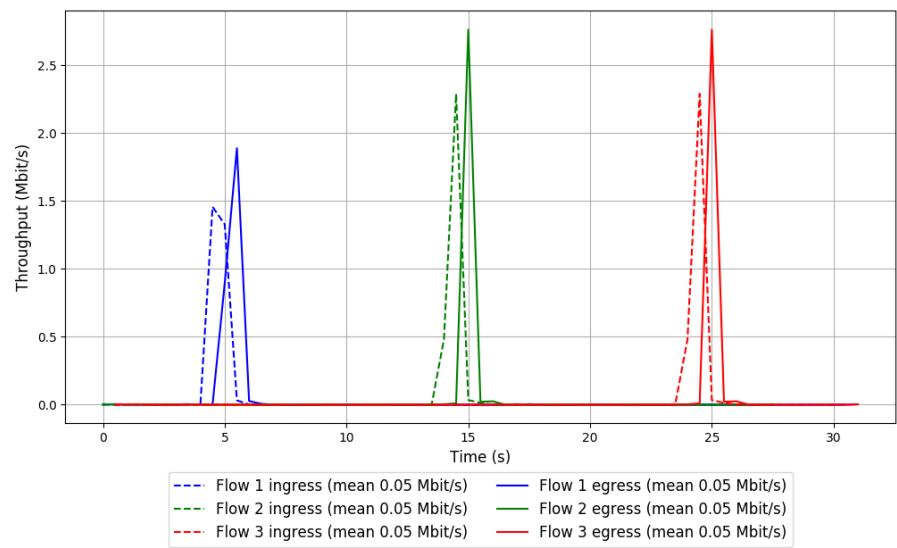


Run 3: Statistics of WebRTC media

Start at: 2018-12-20 04:28:02
End at: 2018-12-20 04:28:32
Local clock offset: -1.381 ms
Remote clock offset: -0.042 ms

Below is generated by plot.py at 2018-12-20 08:19:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 87.814 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.806 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.843 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.373 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-12-20 05:02:02

End at: 2018-12-20 05:02:32

Local clock offset: -1.619 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-12-20 08:19:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 88.010 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 87.595 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 88.055 ms

Loss rate: 0.00%

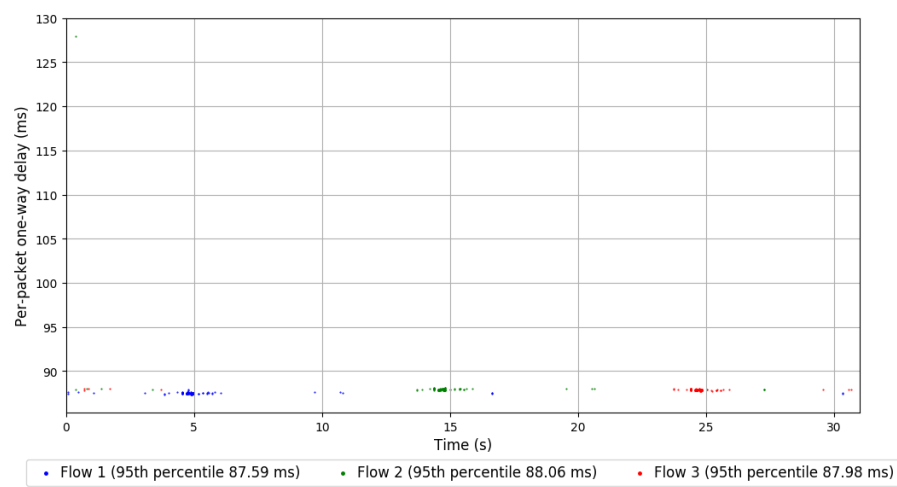
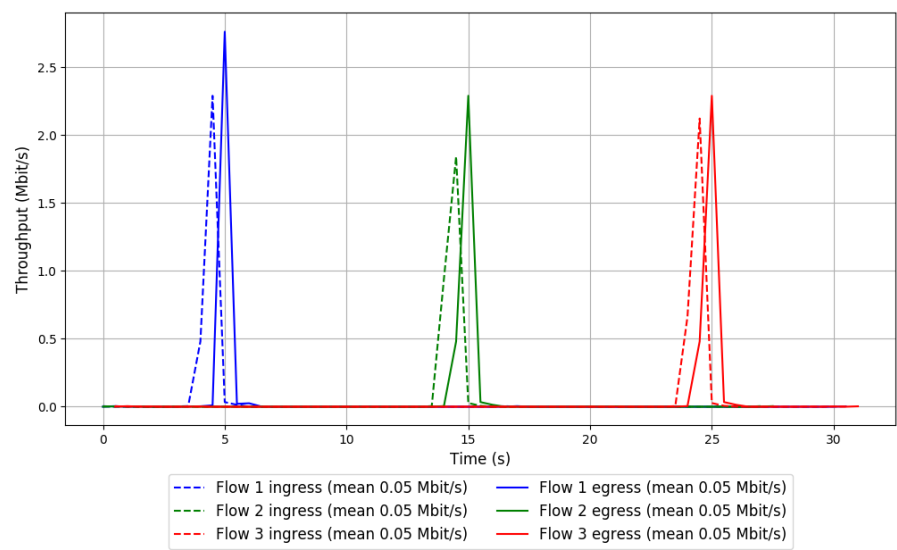
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 87.984 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-12-20 05:36:07

End at: 2018-12-20 05:36:37

Local clock offset: 1.625 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-12-20 08:19:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 84.508 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 84.489 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 84.857 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 84.423 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

