

Pantheon Report

Generated at 2017-11-17 05:48:24 (UTC).

Data path: GCE Sydney Ethernet (*local*) → GCE Tokyo Ethernet (*remote*).

Repeated the test of 14 congestion control schemes 10 times.

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

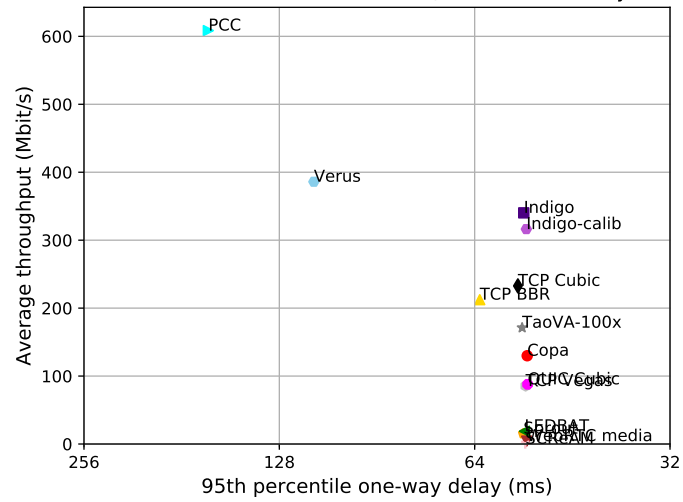
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

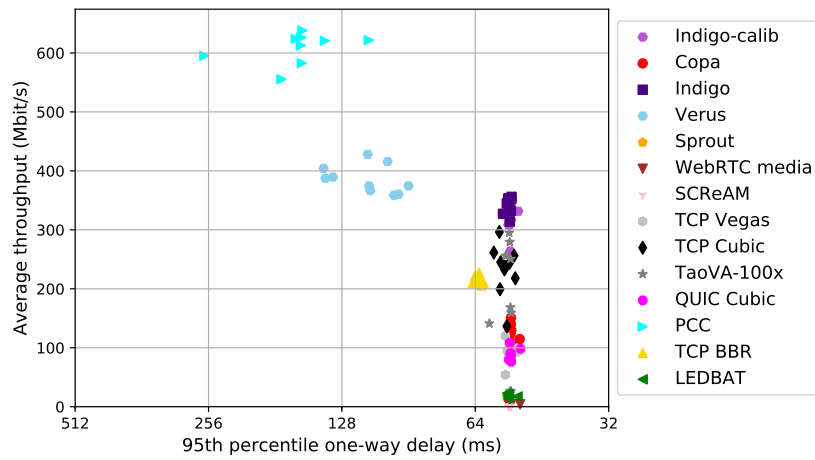
Git summary:

```
branch: indigos @ f54f2953f2a9765c9ffa988d13de5a9471790eb0
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fab936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
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/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
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/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE Sydney Ethernet to GCE Tokyo Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	106.25	107.40	105.42	62.31	63.11	63.96	0.08	0.05	0.08
TCP Cubic	10	118.25	129.25	85.73	54.76	54.82	55.27	0.02	0.05	0.04
LEDBAT	10	10.61	8.83	7.06	53.66	53.59	53.25	0.09	0.17	0.15
PCC	9	531.86	89.13	36.08	167.01	138.06	136.38	1.67	1.07	1.18
QUIC Cubic	9	50.88	41.77	28.33	52.64	53.03	52.70	0.00	0.00	0.01
SCReAM	10	0.21	0.21	0.21	52.60	51.90	52.52	0.00	0.00	0.00
WebRTC media	10	2.27	1.42	0.58	52.89	52.03	52.55	0.00	0.00	0.00
Sprout	10	7.80	7.60	7.36	53.81	53.84	53.65	0.15	0.17	0.14
TaoVA-100x	10	69.18	120.06	87.83	54.15	53.95	53.46	0.01	0.02	0.01
TCP Vegas	10	37.60	38.30	67.36	53.17	53.28	54.16	0.09	0.08	0.02
Verus	10	225.79	181.46	120.13	110.07	116.05	114.68	0.36	0.30	0.43
Copa	10	66.01	70.73	65.20	53.07	52.85	55.44	0.00	0.01	4.63
Indigo	10	180.31	168.74	148.38	53.56	53.58	53.87	0.00	0.01	0.01
Indigo-calib	10	162.39	161.25	144.62	53.17	53.36	53.11	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2017-11-17 01:47:27

End at: 2017-11-17 01:47:57

Below is generated by plot.py at 2017-11-17 04:50:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 209.97 Mbit/s

95th percentile per-packet one-way delay: 64.852 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 106.75 Mbit/s

95th percentile per-packet one-way delay: 64.929 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 104.21 Mbit/s

95th percentile per-packet one-way delay: 65.217 ms

Loss rate: 0.00%

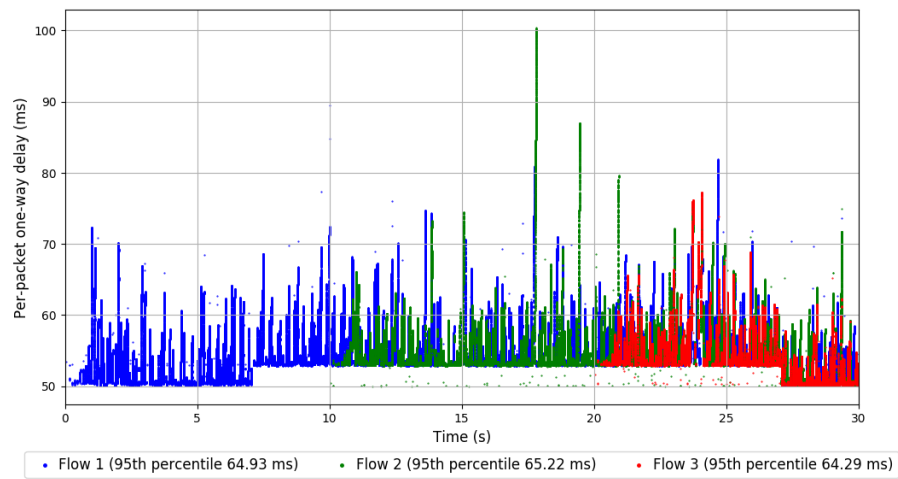
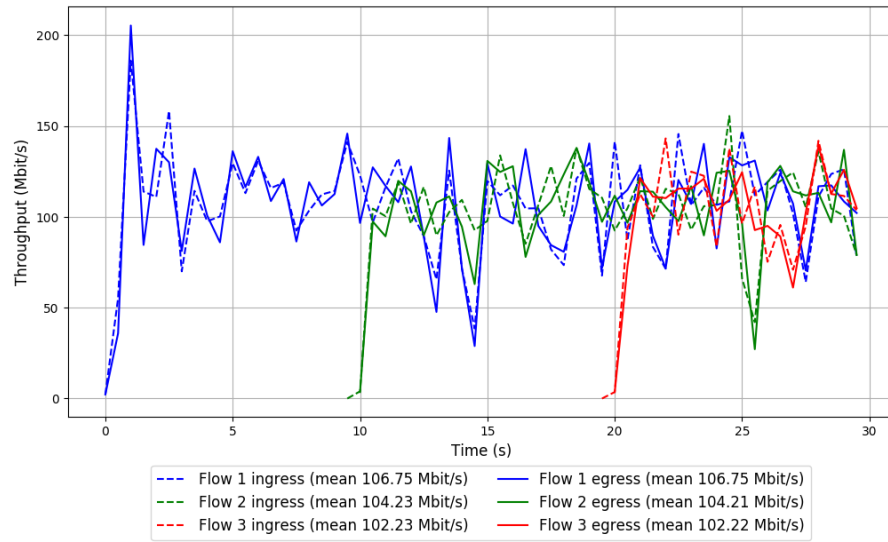
-- Flow 3:

Average throughput: 102.22 Mbit/s

95th percentile per-packet one-way delay: 64.294 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-17 01:59:31

End at: 2017-11-17 02:00:01

Below is generated by plot.py at 2017-11-17 04:50:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 208.38 Mbit/s

95th percentile per-packet one-way delay: 61.807 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 107.04 Mbit/s

95th percentile per-packet one-way delay: 60.916 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 100.57 Mbit/s

95th percentile per-packet one-way delay: 61.761 ms

Loss rate: 0.00%

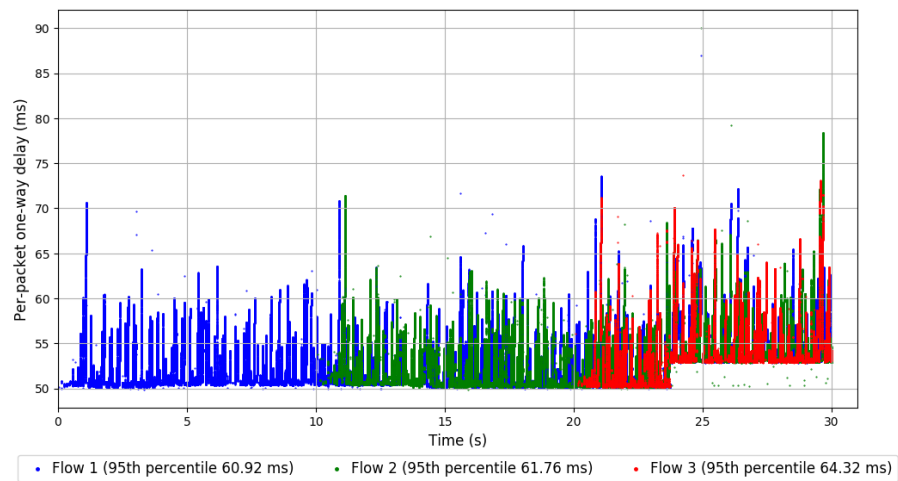
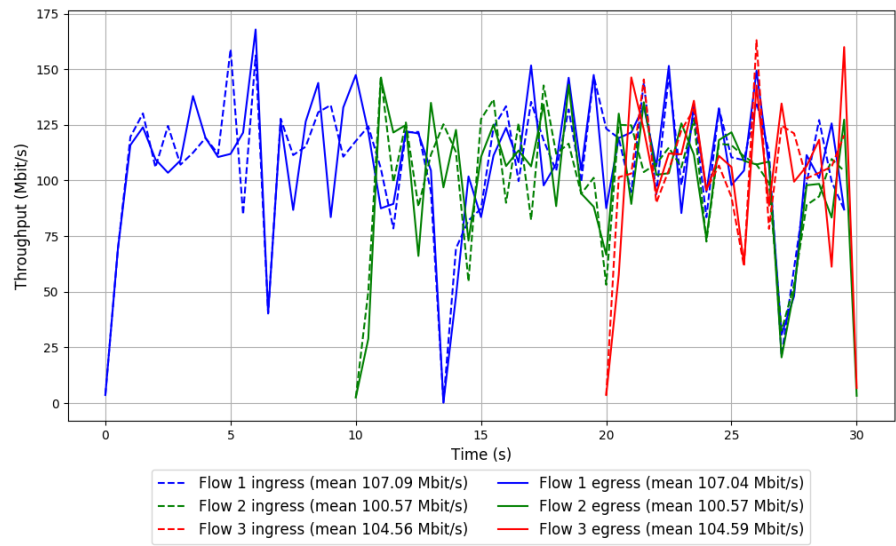
-- Flow 3:

Average throughput: 104.59 Mbit/s

95th percentile per-packet one-way delay: 64.316 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-17 02:11:24

End at: 2017-11-17 02:11:54

Below is generated by plot.py at 2017-11-17 04:50:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 209.30 Mbit/s

95th percentile per-packet one-way delay: 64.066 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 103.98 Mbit/s

95th percentile per-packet one-way delay: 63.397 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 103.57 Mbit/s

95th percentile per-packet one-way delay: 64.205 ms

Loss rate: 0.00%

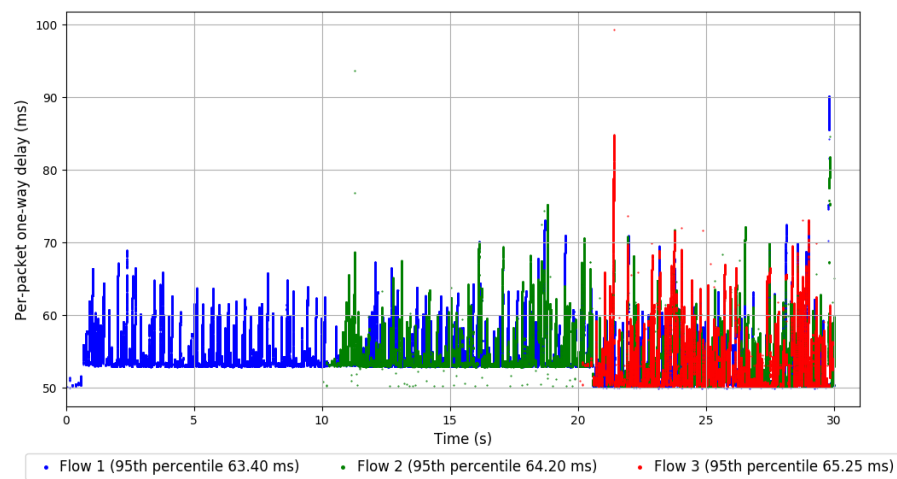
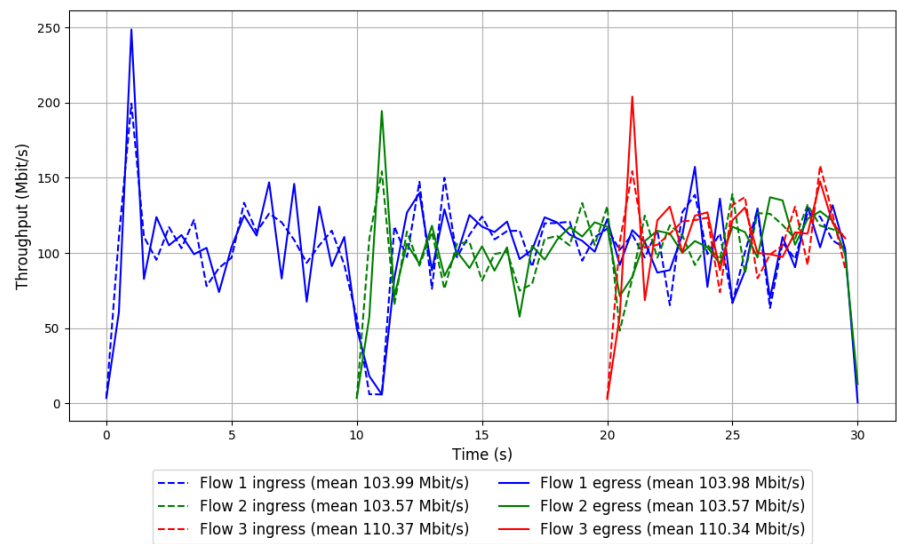
-- Flow 3:

Average throughput: 110.34 Mbit/s

95th percentile per-packet one-way delay: 65.253 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-17 02:23:29

End at: 2017-11-17 02:23:59

Below is generated by plot.py at 2017-11-17 04:50:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 210.14 Mbit/s

95th percentile per-packet one-way delay: 61.301 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 101.51 Mbit/s

95th percentile per-packet one-way delay: 60.696 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 110.43 Mbit/s

95th percentile per-packet one-way delay: 61.336 ms

Loss rate: 0.04%

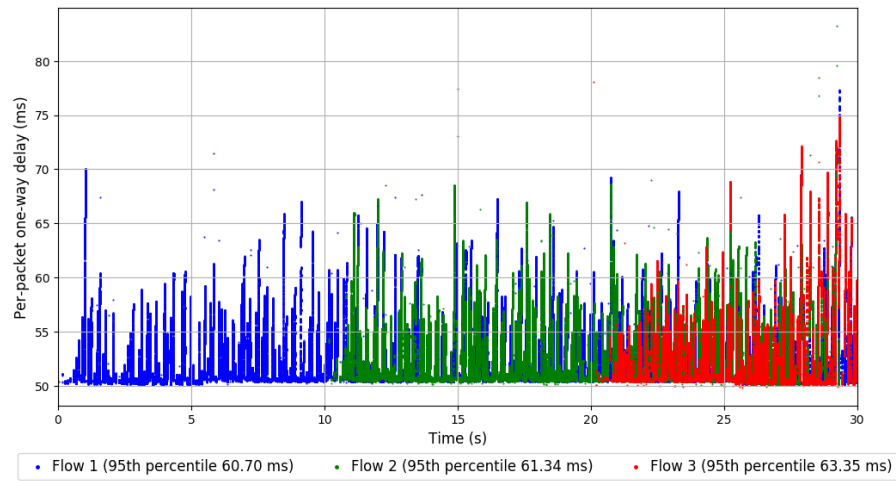
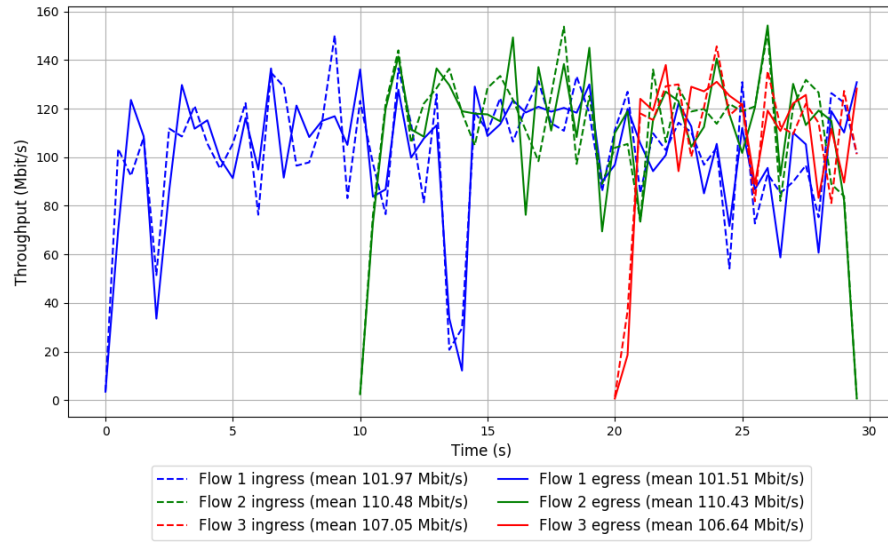
-- Flow 3:

Average throughput: 106.64 Mbit/s

95th percentile per-packet one-way delay: 63.349 ms

Loss rate: 0.61%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-17 02:35:13

End at: 2017-11-17 02:35:43

Below is generated by plot.py at 2017-11-17 04:50:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 227.08 Mbit/s

95th percentile per-packet one-way delay: 62.774 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 111.81 Mbit/s

95th percentile per-packet one-way delay: 62.978 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 118.91 Mbit/s

95th percentile per-packet one-way delay: 62.551 ms

Loss rate: 0.01%

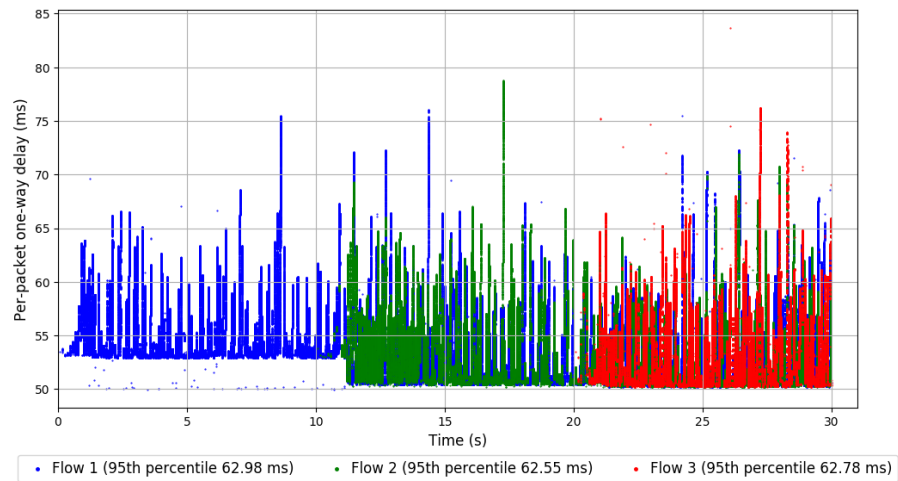
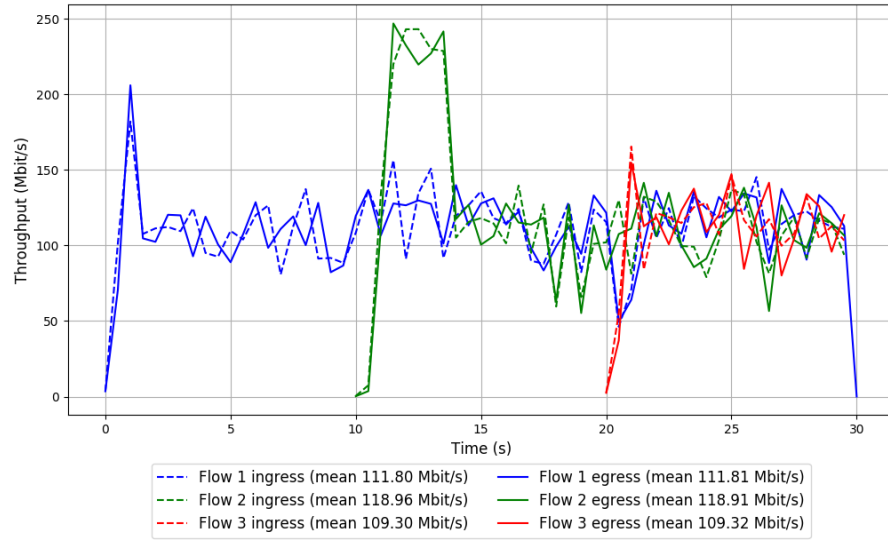
-- Flow 3:

Average throughput: 109.32 Mbit/s

95th percentile per-packet one-way delay: 62.777 ms

Loss rate: 0.02%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-17 02:47:15

End at: 2017-11-17 02:47:45

Below is generated by plot.py at 2017-11-17 04:50:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 205.65 Mbit/s

95th percentile per-packet one-way delay: 61.959 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 104.61 Mbit/s

95th percentile per-packet one-way delay: 61.013 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 103.00 Mbit/s

95th percentile per-packet one-way delay: 62.453 ms

Loss rate: 0.00%

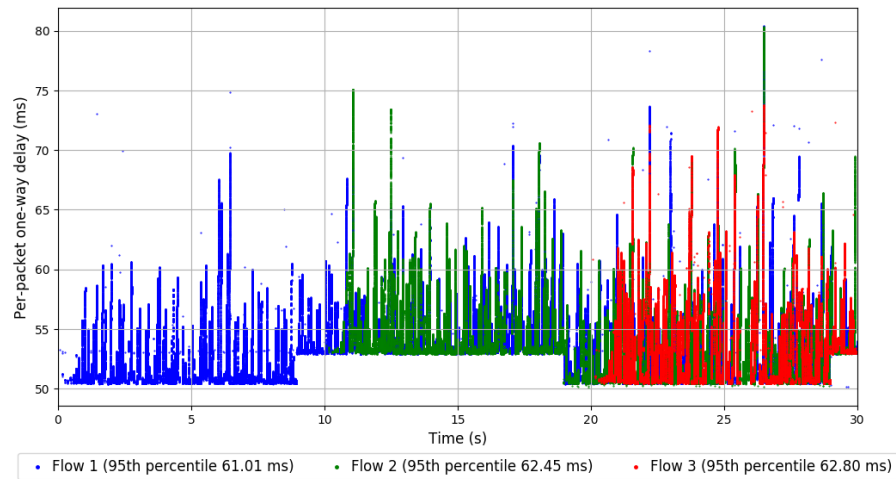
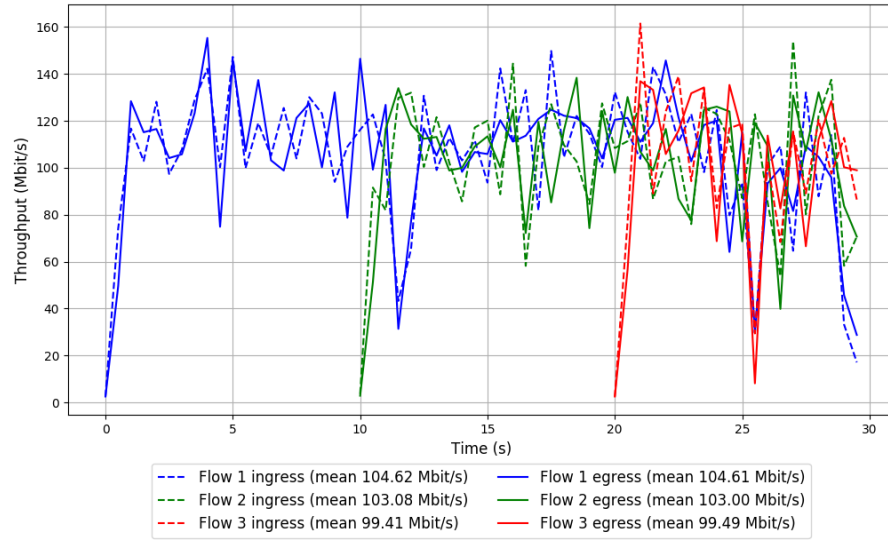
-- Flow 3:

Average throughput: 99.49 Mbit/s

95th percentile per-packet one-way delay: 62.796 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-17 02:59:27

End at: 2017-11-17 02:59:57

Below is generated by plot.py at 2017-11-17 04:50:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 214.45 Mbit/s

95th percentile per-packet one-way delay: 62.265 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 107.78 Mbit/s

95th percentile per-packet one-way delay: 61.814 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 109.80 Mbit/s

95th percentile per-packet one-way delay: 62.217 ms

Loss rate: 0.00%

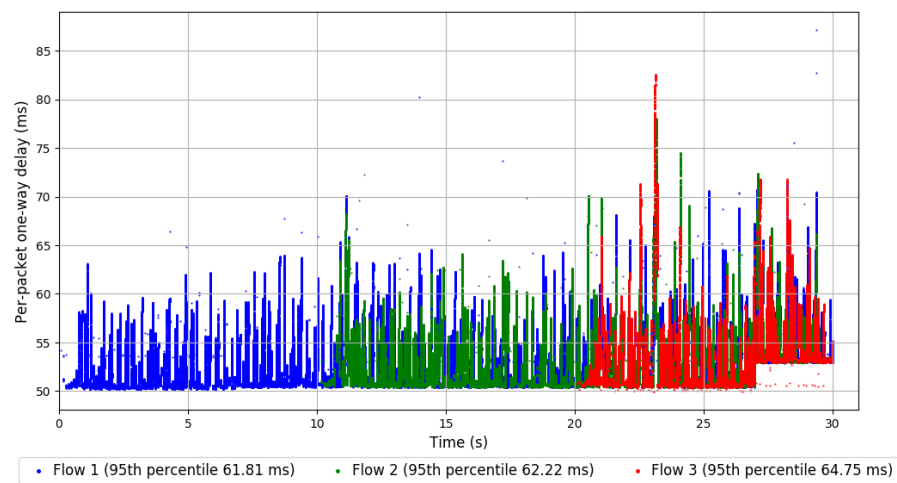
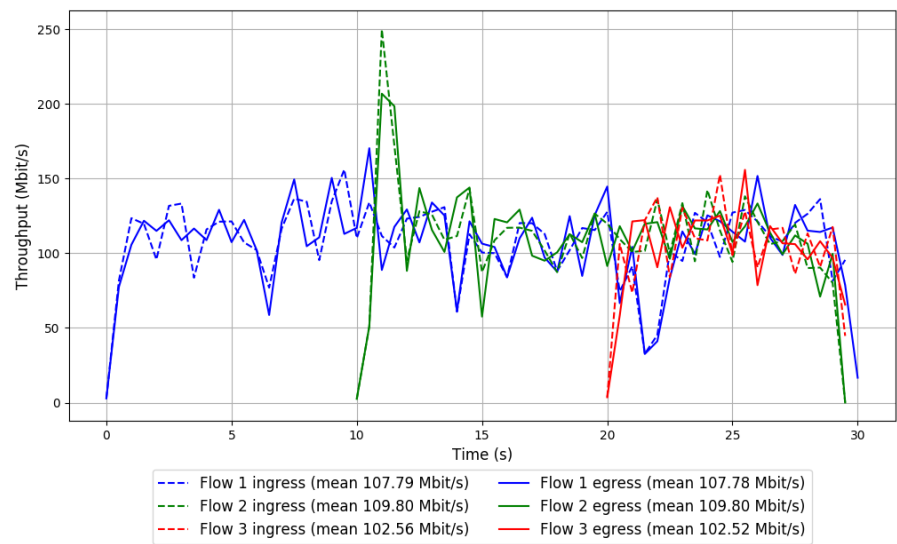
-- Flow 3:

Average throughput: 102.52 Mbit/s

95th percentile per-packet one-way delay: 64.746 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-17 03:11:20

End at: 2017-11-17 03:11:50

Below is generated by plot.py at 2017-11-17 04:50:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 221.72 Mbit/s

95th percentile per-packet one-way delay: 64.069 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 110.19 Mbit/s

95th percentile per-packet one-way delay: 63.396 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 112.23 Mbit/s

95th percentile per-packet one-way delay: 64.928 ms

Loss rate: 0.03%

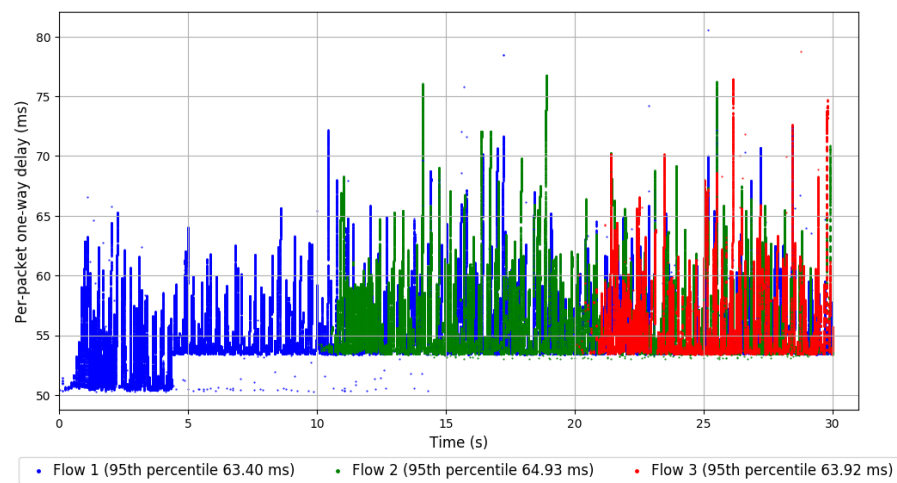
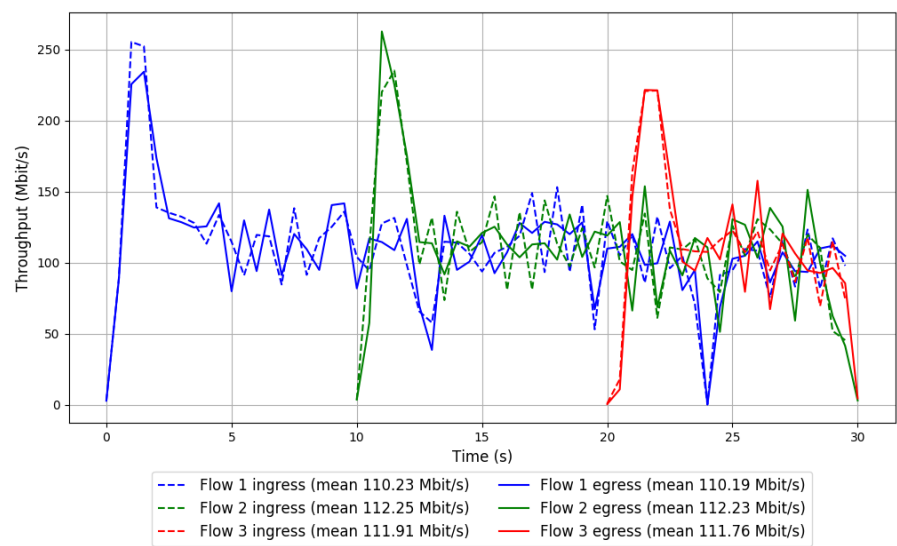
-- Flow 3:

Average throughput: 111.76 Mbit/s

95th percentile per-packet one-way delay: 63.922 ms

Loss rate: 0.16%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-17 03:23:43

End at: 2017-11-17 03:24:13

Below is generated by plot.py at 2017-11-17 04:53:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 209.30 Mbit/s

95th percentile per-packet one-way delay: 62.200 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 103.86 Mbit/s

95th percentile per-packet one-way delay: 61.841 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 103.62 Mbit/s

95th percentile per-packet one-way delay: 62.489 ms

Loss rate: 0.46%

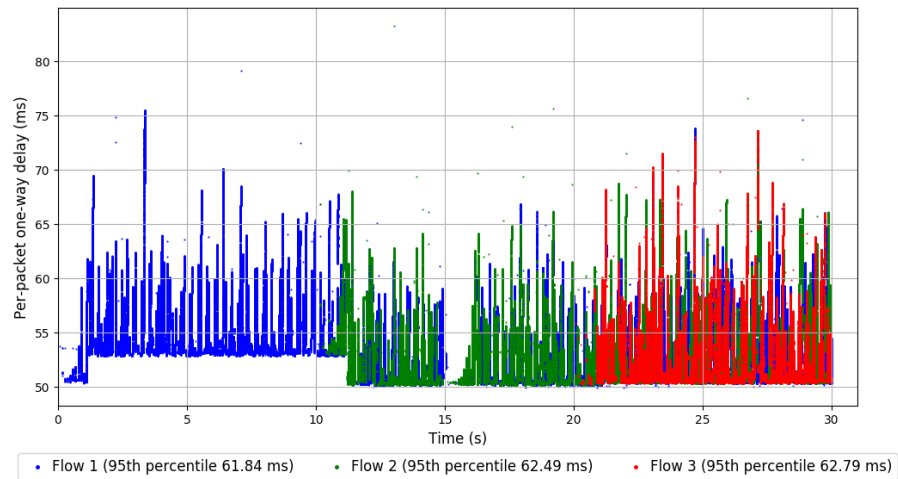
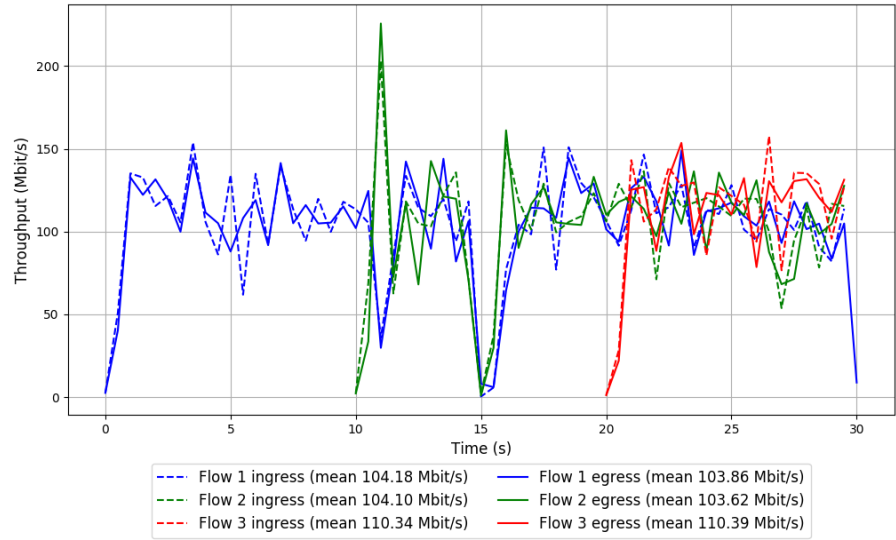
-- Flow 3:

Average throughput: 110.39 Mbit/s

95th percentile per-packet one-way delay: 62.791 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-17 03:35:49

End at: 2017-11-17 03:36:19

Below is generated by plot.py at 2017-11-17 04:54:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 208.44 Mbit/s

95th percentile per-packet one-way delay: 63.269 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 104.94 Mbit/s

95th percentile per-packet one-way delay: 62.163 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 107.66 Mbit/s

95th percentile per-packet one-way delay: 63.985 ms

Loss rate: 0.00%

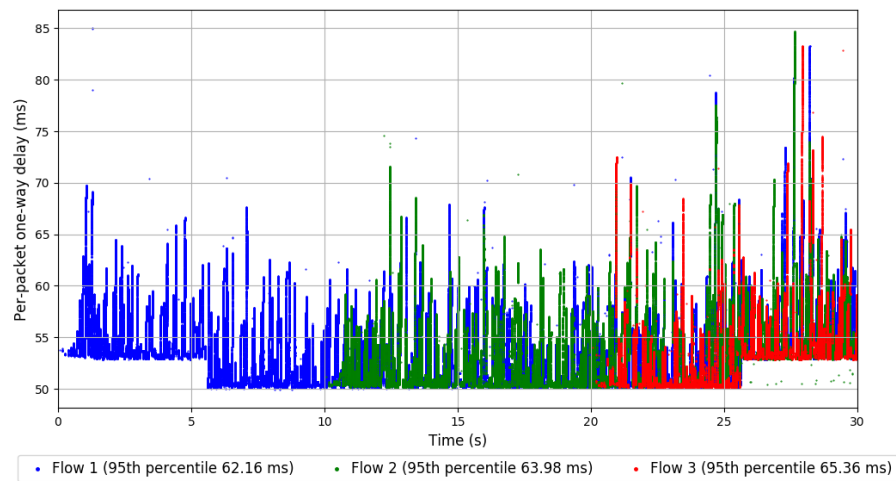
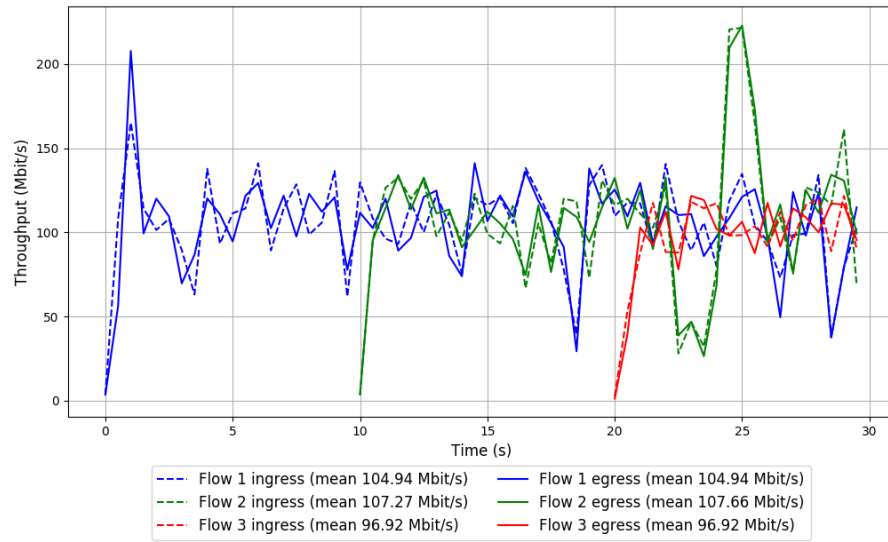
-- Flow 3:

Average throughput: 96.92 Mbit/s

95th percentile per-packet one-way delay: 65.356 ms

Loss rate: 0.01%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-17 01:38:23

End at: 2017-11-17 01:38:53

Below is generated by plot.py at 2017-11-17 04:54:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 245.06 Mbit/s

95th percentile per-packet one-way delay: 56.088 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 94.08 Mbit/s

95th percentile per-packet one-way delay: 55.864 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 168.11 Mbit/s

95th percentile per-packet one-way delay: 55.383 ms

Loss rate: 0.00%

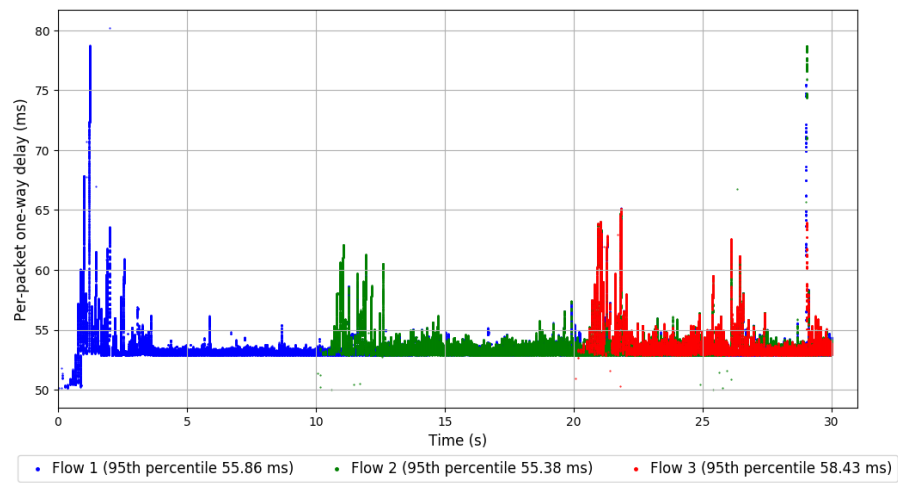
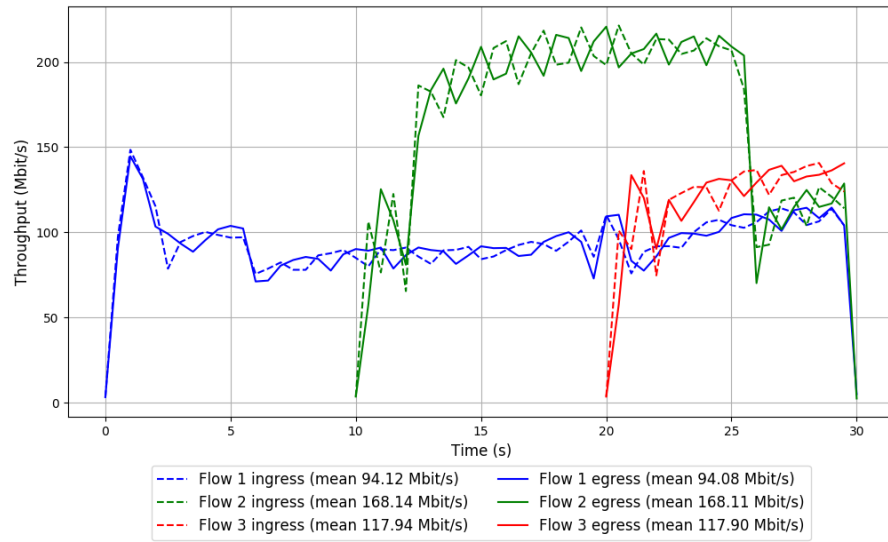
-- Flow 3:

Average throughput: 117.90 Mbit/s

95th percentile per-packet one-way delay: 58.430 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-17 01:50:35

End at: 2017-11-17 01:51:05

Below is generated by plot.py at 2017-11-17 04:54:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 261.41 Mbit/s

95th percentile per-packet one-way delay: 58.121 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 136.11 Mbit/s

95th percentile per-packet one-way delay: 57.445 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 130.73 Mbit/s

95th percentile per-packet one-way delay: 58.410 ms

Loss rate: 0.00%

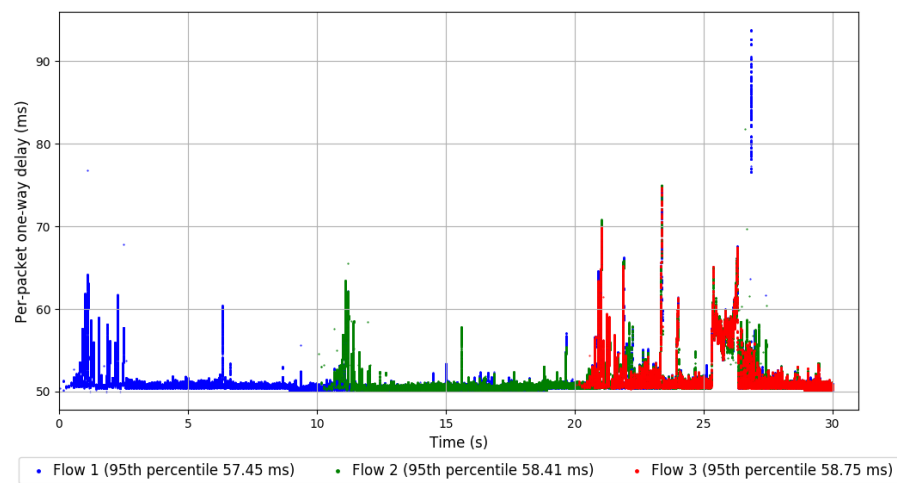
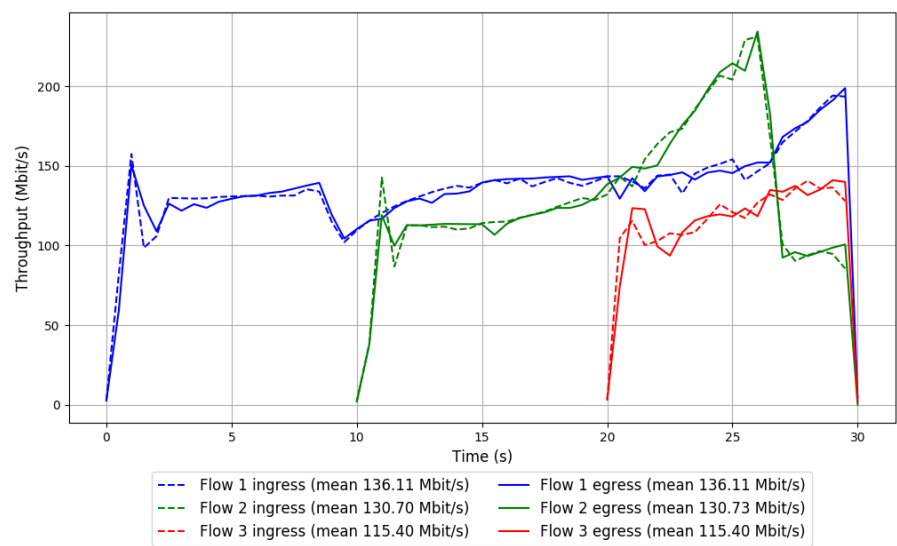
-- Flow 3:

Average throughput: 115.40 Mbit/s

95th percentile per-packet one-way delay: 58.750 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-17 02:02:39

End at: 2017-11-17 02:03:09

Below is generated by plot.py at 2017-11-17 04:54:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 244.00 Mbit/s

95th percentile per-packet one-way delay: 53.571 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 118.14 Mbit/s

95th percentile per-packet one-way delay: 53.844 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 128.48 Mbit/s

95th percentile per-packet one-way delay: 52.710 ms

Loss rate: 0.00%

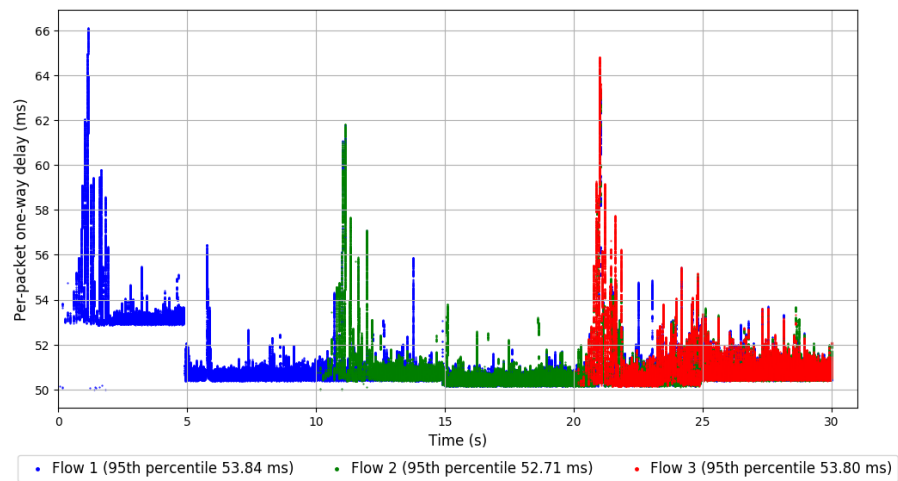
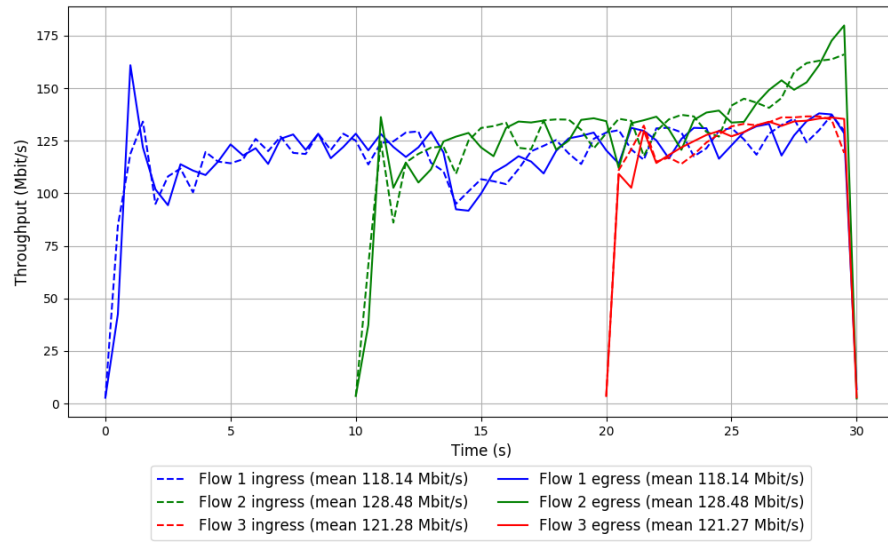
-- Flow 3:

Average throughput: 121.27 Mbit/s

95th percentile per-packet one-way delay: 53.804 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-17 02:14:34

End at: 2017-11-17 02:15:04

Below is generated by plot.py at 2017-11-17 04:55:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 296.40 Mbit/s

95th percentile per-packet one-way delay: 56.464 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 172.60 Mbit/s

95th percentile per-packet one-way delay: 56.779 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 183.38 Mbit/s

95th percentile per-packet one-way delay: 55.833 ms

Loss rate: 0.00%

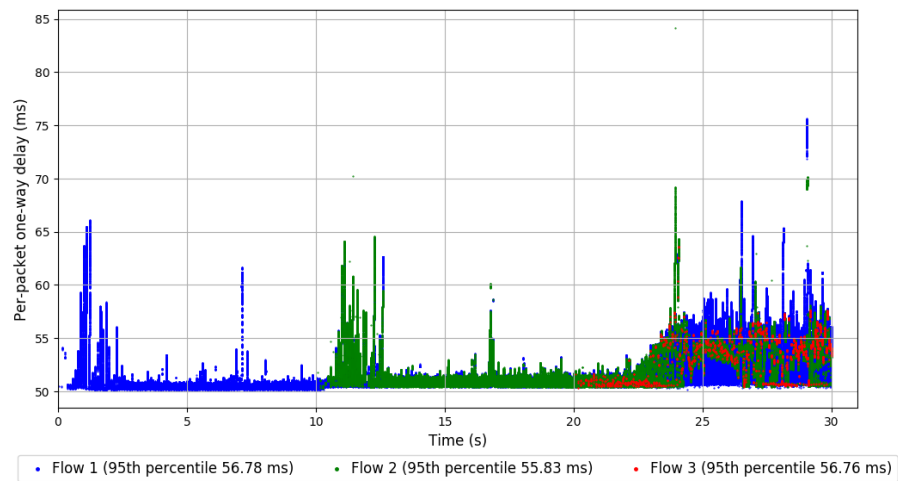
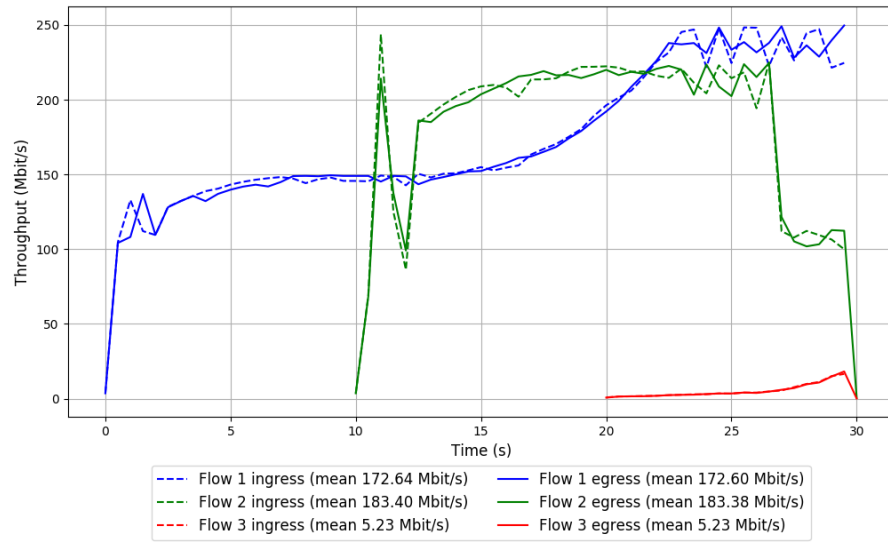
-- Flow 3:

Average throughput: 5.23 Mbit/s

95th percentile per-packet one-way delay: 56.762 ms

Loss rate: 0.14%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-17 02:26:39

End at: 2017-11-17 02:27:09

Below is generated by plot.py at 2017-11-17 04:55:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 217.88 Mbit/s

95th percentile per-packet one-way delay: 51.981 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 105.45 Mbit/s

95th percentile per-packet one-way delay: 51.950 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 166.53 Mbit/s

95th percentile per-packet one-way delay: 52.011 ms

Loss rate: 0.00%

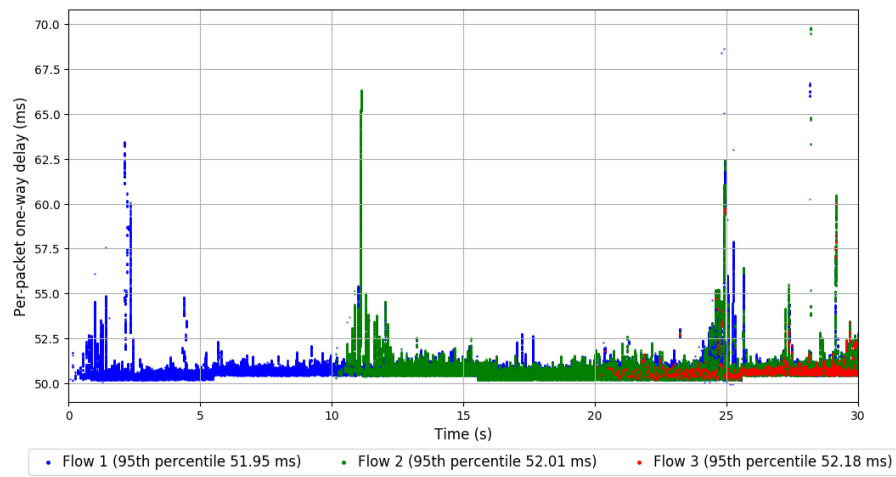
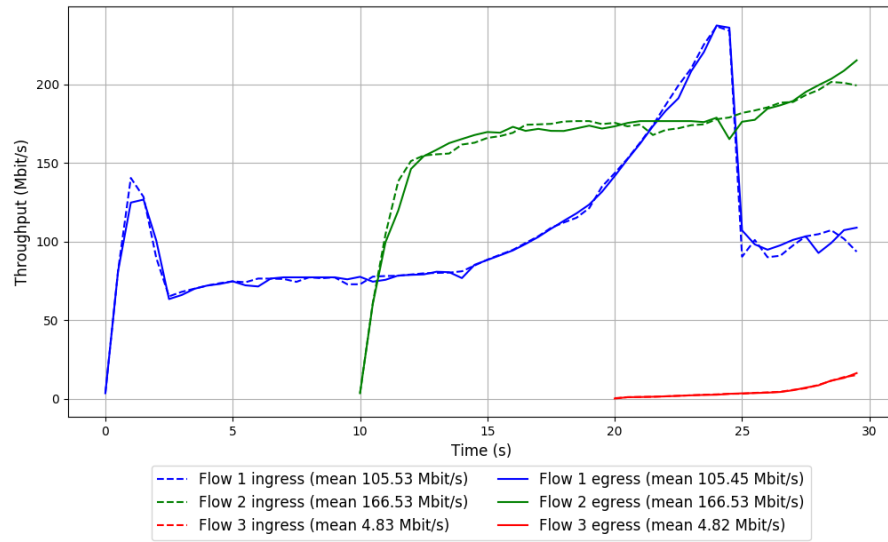
-- Flow 3:

Average throughput: 4.82 Mbit/s

95th percentile per-packet one-way delay: 52.181 ms

Loss rate: 0.23%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-17 02:38:20

End at: 2017-11-17 02:38:50

Below is generated by plot.py at 2017-11-17 04:55:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 199.29 Mbit/s

95th percentile per-packet one-way delay: 56.277 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 99.82 Mbit/s

95th percentile per-packet one-way delay: 55.693 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 57.601 ms

Loss rate: 0.46%

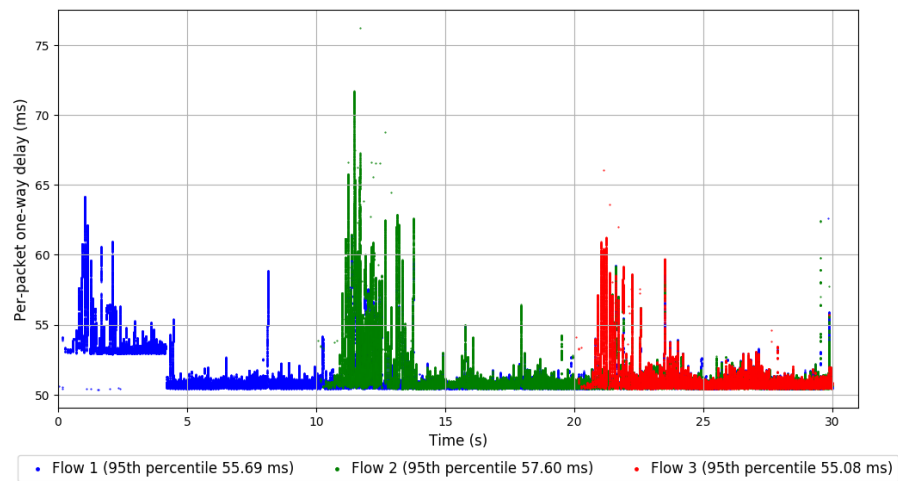
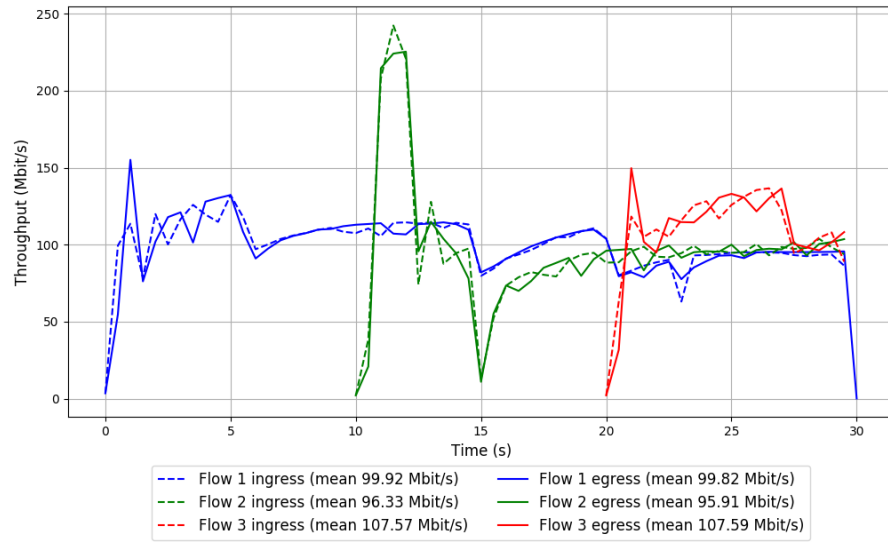
-- Flow 3:

Average throughput: 107.59 Mbit/s

95th percentile per-packet one-way delay: 55.081 ms

Loss rate: 0.01%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-17 02:50:23

End at: 2017-11-17 02:50:53

Below is generated by plot.py at 2017-11-17 04:58:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.58 Mbit/s

95th percentile per-packet one-way delay: 54.876 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 125.63 Mbit/s

95th percentile per-packet one-way delay: 55.043 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 98.46 Mbit/s

95th percentile per-packet one-way delay: 54.748 ms

Loss rate: 0.03%

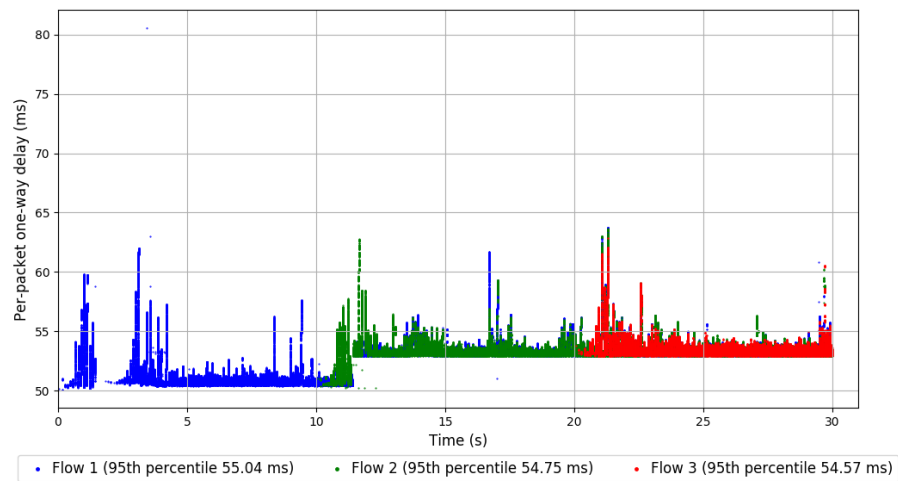
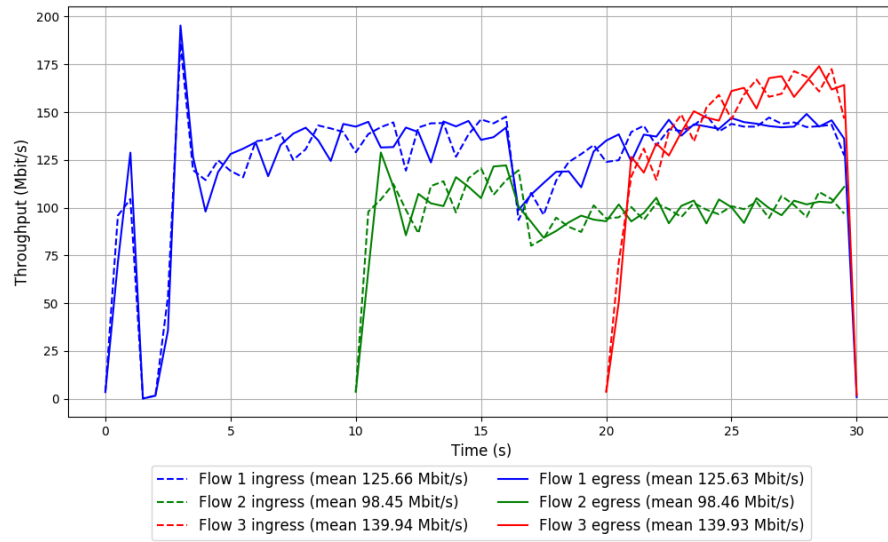
-- Flow 3:

Average throughput: 139.93 Mbit/s

95th percentile per-packet one-way delay: 54.567 ms

Loss rate: 0.02%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-17 03:02:34

End at: 2017-11-17 03:03:04

Below is generated by plot.py at 2017-11-17 04:58:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 256.17 Mbit/s

95th percentile per-packet one-way delay: 52.322 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 139.86 Mbit/s

95th percentile per-packet one-way delay: 52.075 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 103.94 Mbit/s

95th percentile per-packet one-way delay: 52.003 ms

Loss rate: 0.00%

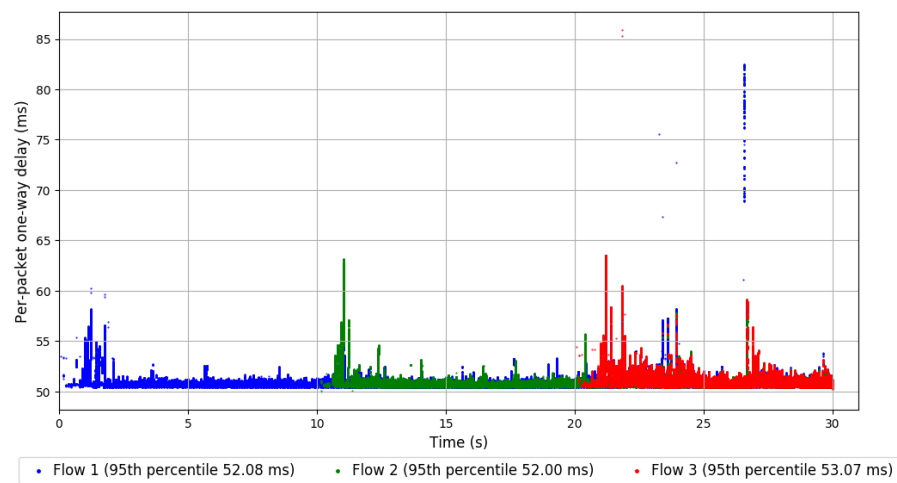
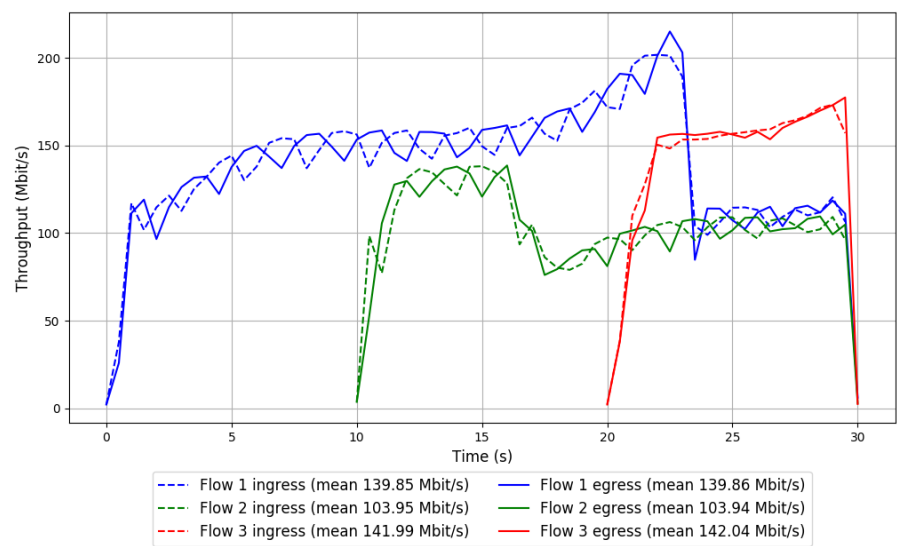
-- Flow 3:

Average throughput: 142.04 Mbit/s

95th percentile per-packet one-way delay: 53.066 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-17 03:14:29

End at: 2017-11-17 03:14:59

Below is generated by plot.py at 2017-11-17 04:58:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 136.52 Mbit/s

95th percentile per-packet one-way delay: 54.320 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.75 Mbit/s

95th percentile per-packet one-way delay: 54.331 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 100.66 Mbit/s

95th percentile per-packet one-way delay: 54.295 ms

Loss rate: 0.00%

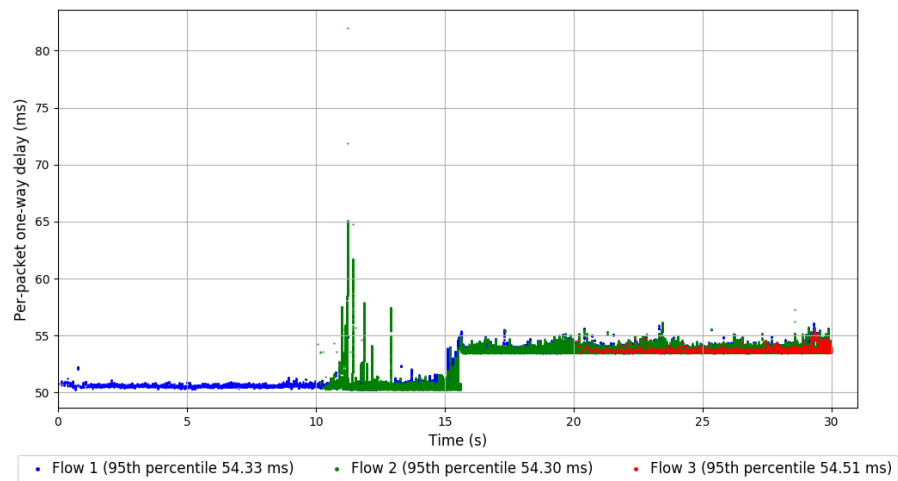
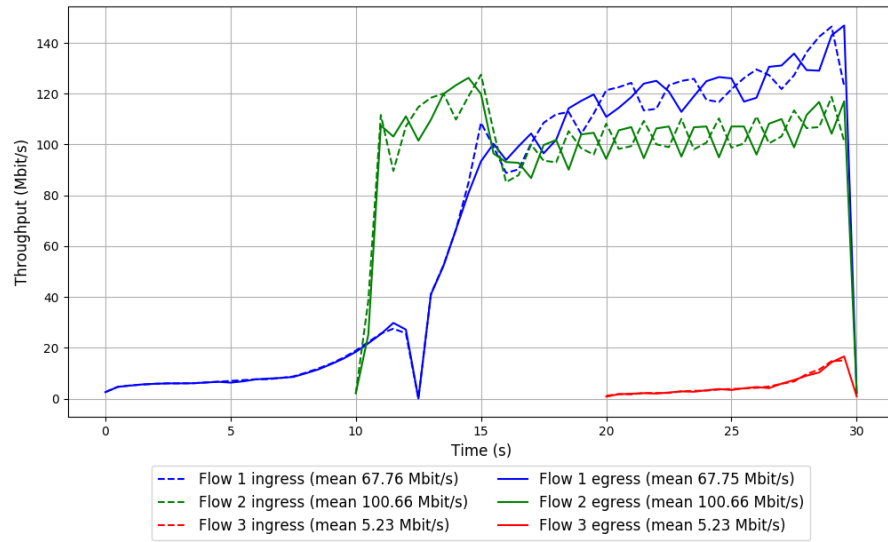
-- Flow 3:

Average throughput: 5.23 Mbit/s

95th percentile per-packet one-way delay: 54.505 ms

Loss rate: 0.05%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-17 03:26:52

End at: 2017-11-17 03:27:22

Below is generated by plot.py at 2017-11-17 04:58:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 232.93 Mbit/s

95th percentile per-packet one-way delay: 54.997 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 123.09 Mbit/s

95th percentile per-packet one-way delay: 54.537 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 116.27 Mbit/s

95th percentile per-packet one-way delay: 55.243 ms

Loss rate: 0.00%

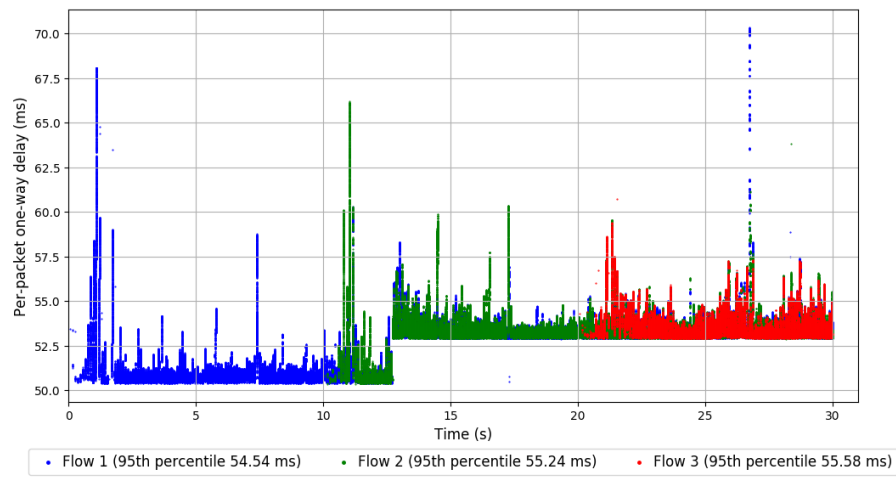
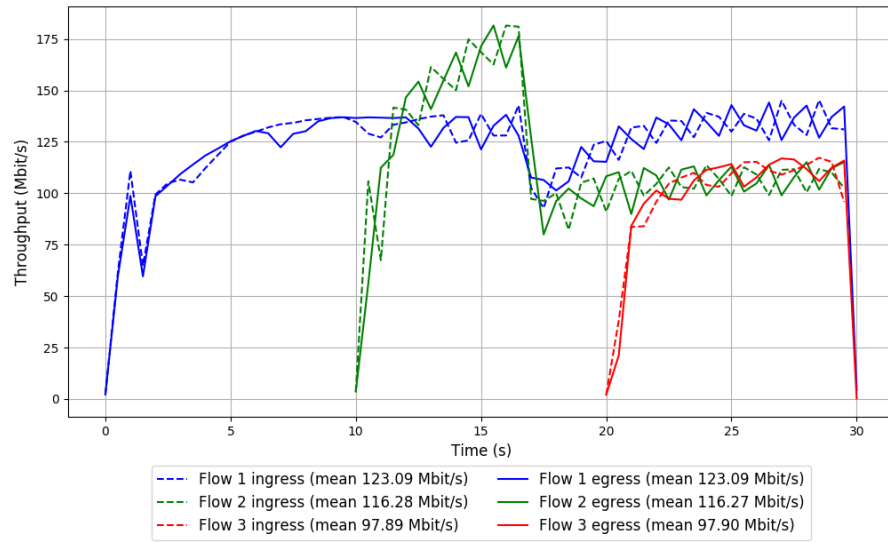
-- Flow 3:

Average throughput: 97.90 Mbit/s

95th percentile per-packet one-way delay: 55.575 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

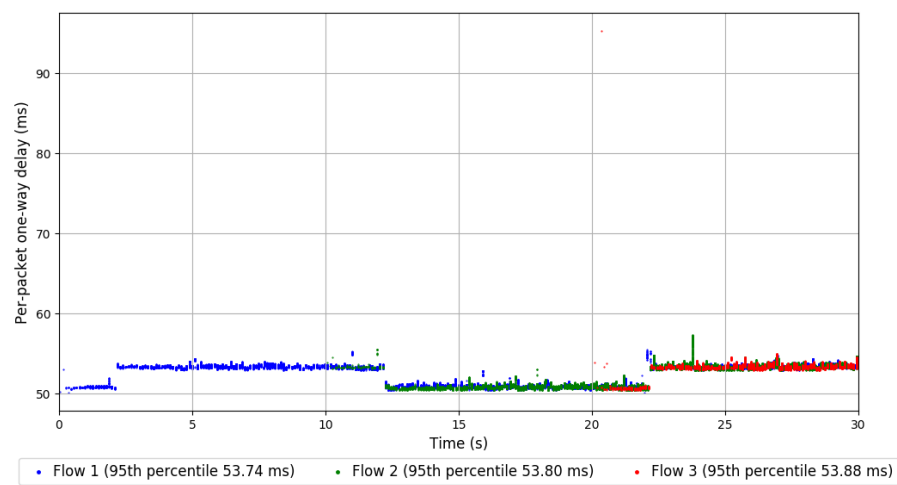
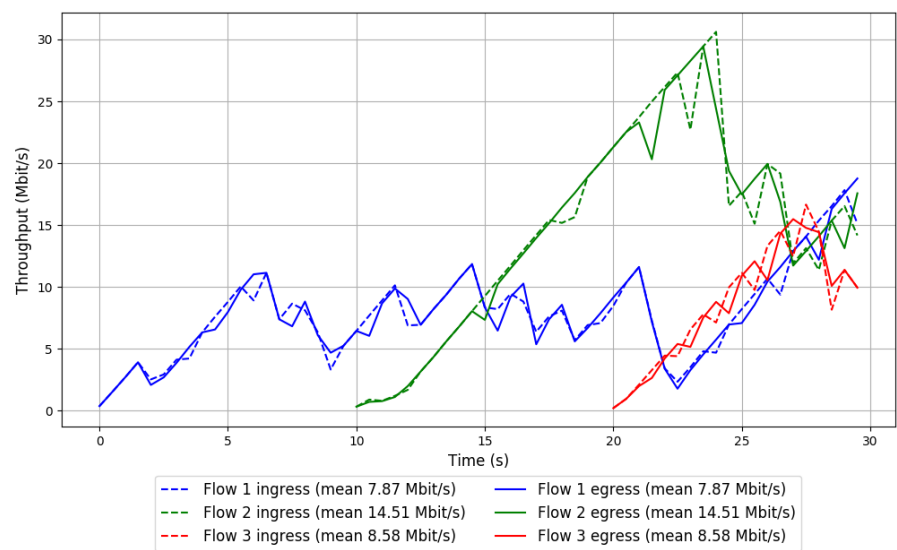


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-17 01:37:02
End at: 2017-11-17 01:37:32

# Below is generated by plot.py at 2017-11-17 04:58:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.33 Mbit/s
95th percentile per-packet one-way delay: 53.807 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 7.87 Mbit/s
95th percentile per-packet one-way delay: 53.744 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 14.51 Mbit/s
95th percentile per-packet one-way delay: 53.802 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.58 Mbit/s
95th percentile per-packet one-way delay: 53.880 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

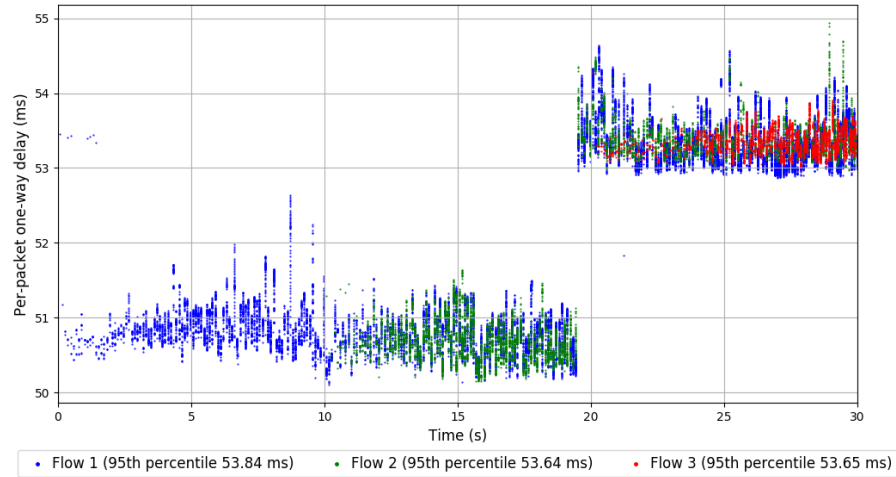
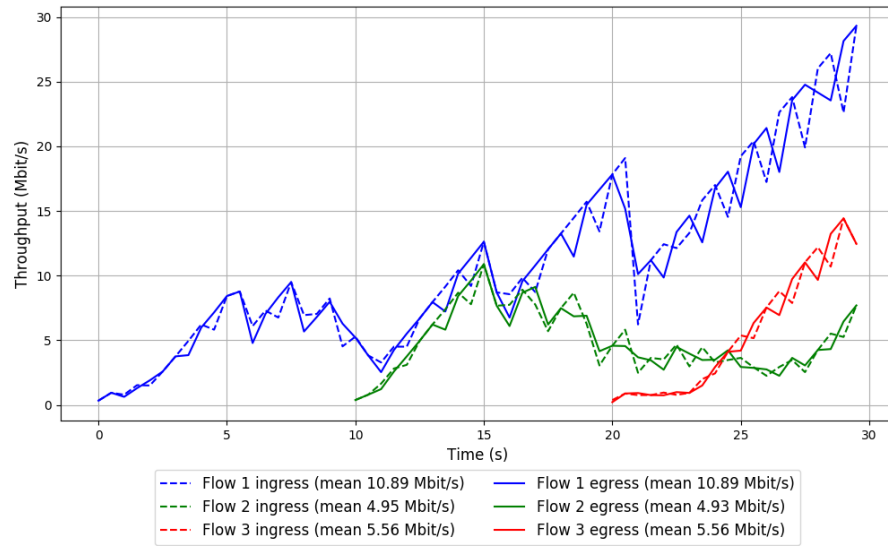


```
Run 2: Statistics of LEDBAT

Start at: 2017-11-17 01:49:15
End at: 2017-11-17 01:49:45

# Below is generated by plot.py at 2017-11-17 04:58:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.00 Mbit/s
95th percentile per-packet one-way delay: 53.792 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 10.89 Mbit/s
95th percentile per-packet one-way delay: 53.843 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 4.93 Mbit/s
95th percentile per-packet one-way delay: 53.643 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 5.56 Mbit/s
95th percentile per-packet one-way delay: 53.648 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-17 02:01:18

End at: 2017-11-17 02:01:48

Below is generated by plot.py at 2017-11-17 04:58:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.10 Mbit/s

95th percentile per-packet one-way delay: 54.236 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 15.83 Mbit/s

95th percentile per-packet one-way delay: 54.310 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 54.107 ms

Loss rate: 0.04%

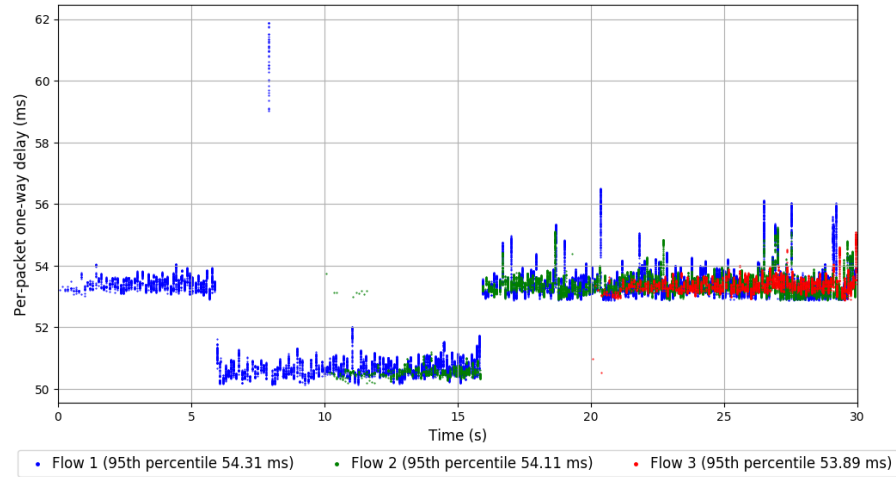
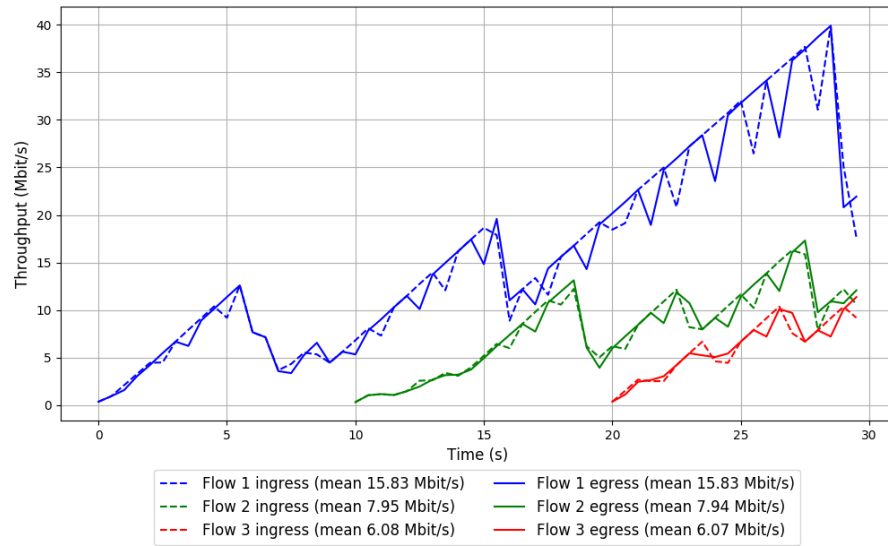
-- Flow 3:

Average throughput: 6.07 Mbit/s

95th percentile per-packet one-way delay: 53.891 ms

Loss rate: 0.04%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-17 02:13:13

End at: 2017-11-17 02:13:43

Below is generated by plot.py at 2017-11-17 04:58:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.69 Mbit/s

95th percentile per-packet one-way delay: 53.690 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 10.92 Mbit/s

95th percentile per-packet one-way delay: 53.629 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 9.08 Mbit/s

95th percentile per-packet one-way delay: 53.795 ms

Loss rate: 0.03%

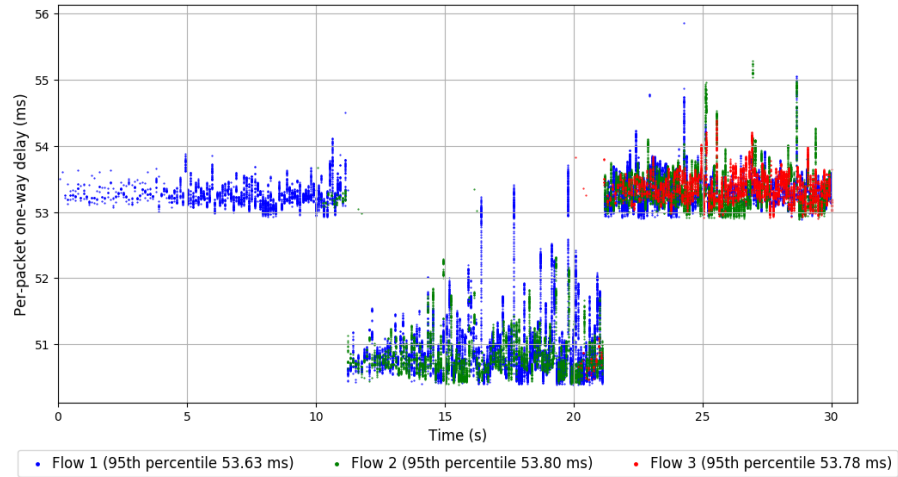
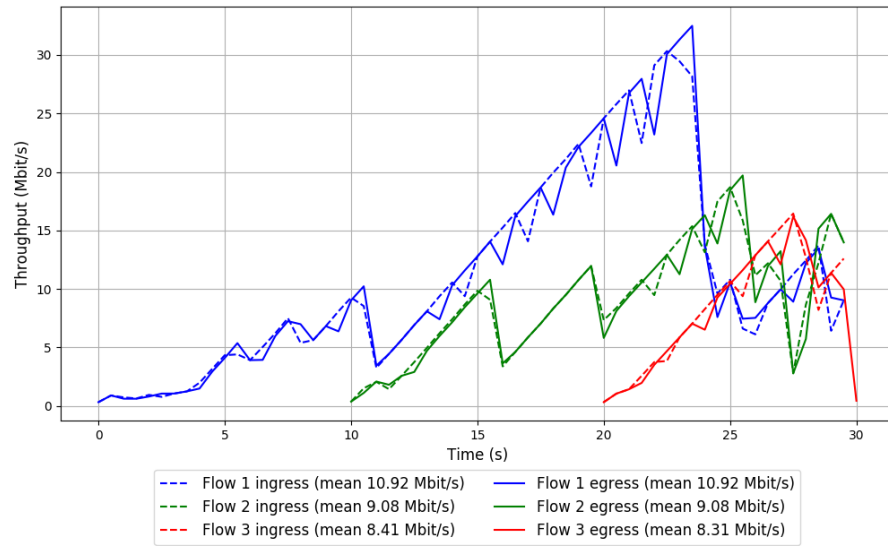
-- Flow 3:

Average throughput: 8.31 Mbit/s

95th percentile per-packet one-way delay: 53.781 ms

Loss rate: 1.30%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-17 02:25:18

End at: 2017-11-17 02:25:48

Below is generated by plot.py at 2017-11-17 04:58:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.94 Mbit/s

95th percentile per-packet one-way delay: 53.854 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 6.86 Mbit/s

95th percentile per-packet one-way delay: 53.979 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 7.27 Mbit/s

95th percentile per-packet one-way delay: 53.816 ms

Loss rate: 0.79%

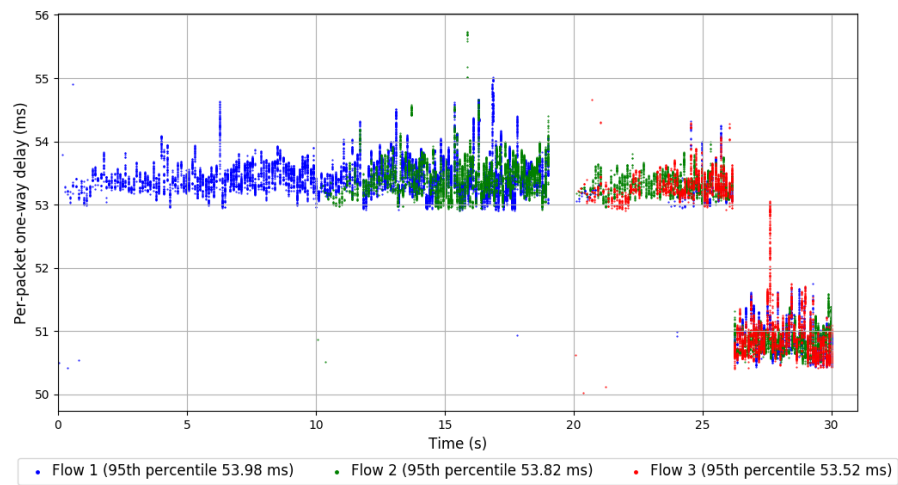
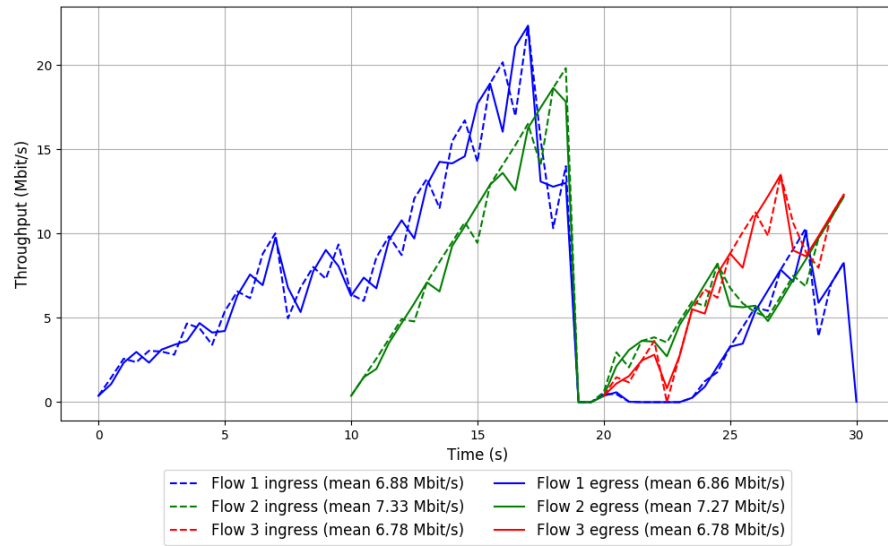
-- Flow 3:

Average throughput: 6.78 Mbit/s

95th percentile per-packet one-way delay: 53.516 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-17 02:36:59

End at: 2017-11-17 02:37:29

Below is generated by plot.py at 2017-11-17 04:58:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.46 Mbit/s

95th percentile per-packet one-way delay: 53.858 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 10.05 Mbit/s

95th percentile per-packet one-way delay: 53.980 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 8.80 Mbit/s

95th percentile per-packet one-way delay: 53.730 ms

Loss rate: 0.19%

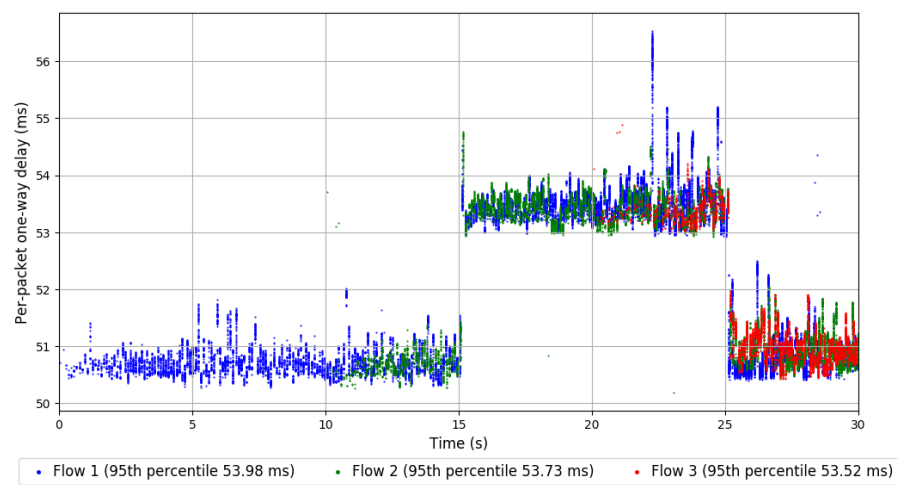
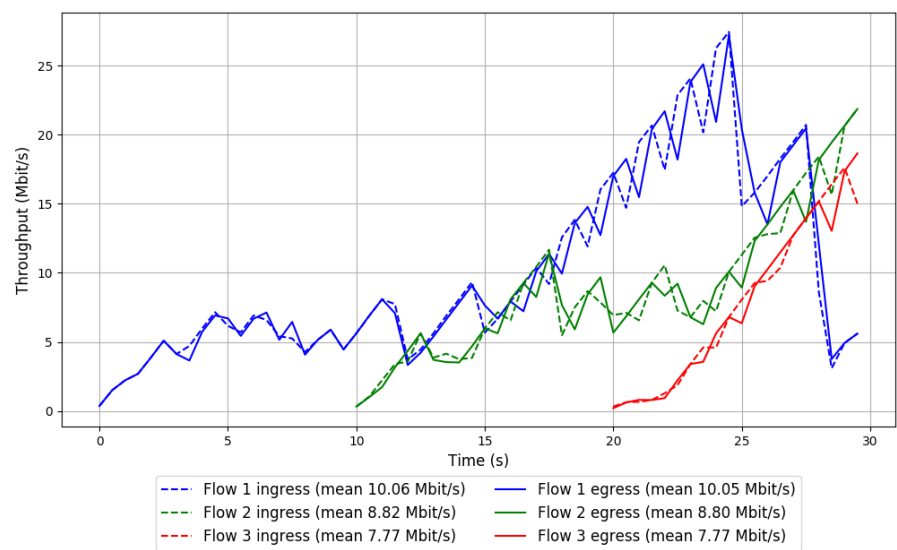
-- Flow 3:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 53.521 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

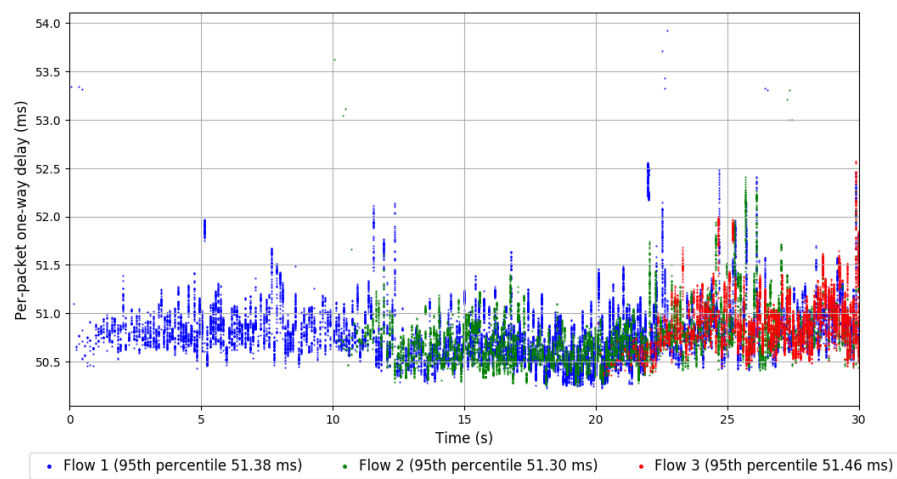
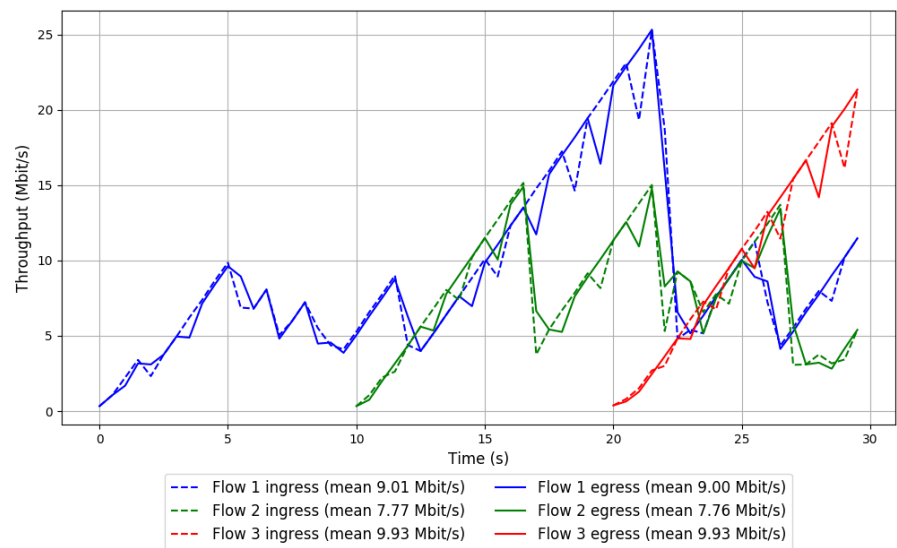


```
Run 7: Statistics of LEDBAT

Start at: 2017-11-17 02:49:02
End at: 2017-11-17 02:49:32

# Below is generated by plot.py at 2017-11-17 04:58:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.44 Mbit/s
95th percentile per-packet one-way delay: 51.383 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 9.00 Mbit/s
95th percentile per-packet one-way delay: 51.383 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 7.76 Mbit/s
95th percentile per-packet one-way delay: 51.304 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 9.93 Mbit/s
95th percentile per-packet one-way delay: 51.461 ms
Loss rate: 0.00%
```

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-17 03:01:13

End at: 2017-11-17 03:01:43

Below is generated by plot.py at 2017-11-17 04:58:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.27 Mbit/s

95th percentile per-packet one-way delay: 53.862 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 12.95 Mbit/s

95th percentile per-packet one-way delay: 53.758 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 10.40 Mbit/s

95th percentile per-packet one-way delay: 53.956 ms

Loss rate: 0.01%

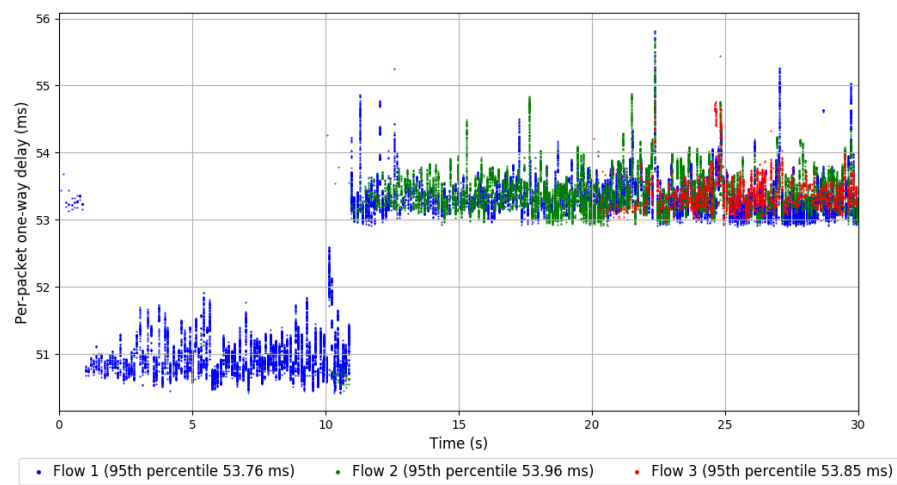
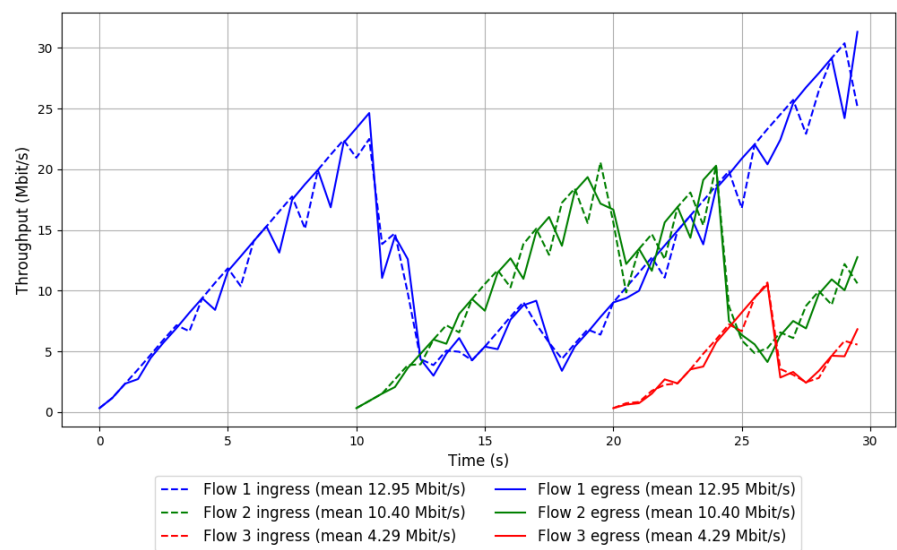
-- Flow 3:

Average throughput: 4.29 Mbit/s

95th percentile per-packet one-way delay: 53.846 ms

Loss rate: 0.11%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-17 03:13:08

End at: 2017-11-17 03:13:38

Below is generated by plot.py at 2017-11-17 04:58:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.55 Mbit/s

95th percentile per-packet one-way delay: 54.034 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 12.35 Mbit/s

95th percentile per-packet one-way delay: 54.097 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 7.48 Mbit/s

95th percentile per-packet one-way delay: 53.975 ms

Loss rate: 0.06%

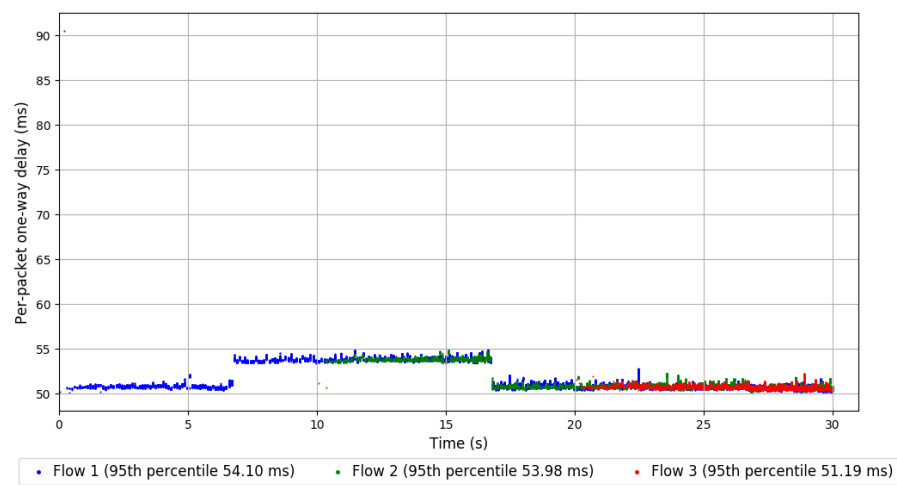
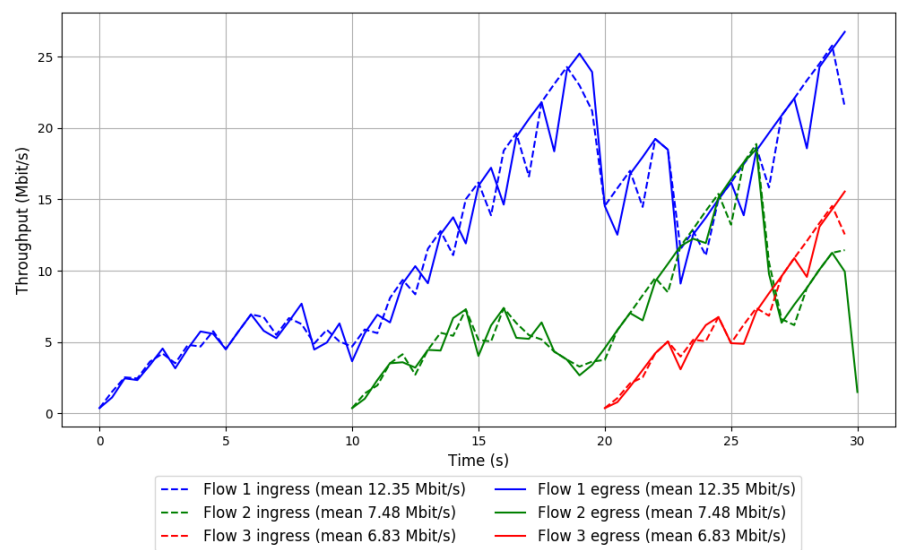
-- Flow 3:

Average throughput: 6.83 Mbit/s

95th percentile per-packet one-way delay: 51.187 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-17 03:25:31

End at: 2017-11-17 03:26:01

Below is generated by plot.py at 2017-11-17 04:58:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.24 Mbit/s

95th percentile per-packet one-way delay: 53.841 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 9.36 Mbit/s

95th percentile per-packet one-way delay: 53.869 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 10.16 Mbit/s

95th percentile per-packet one-way delay: 53.816 ms

Loss rate: 0.06%

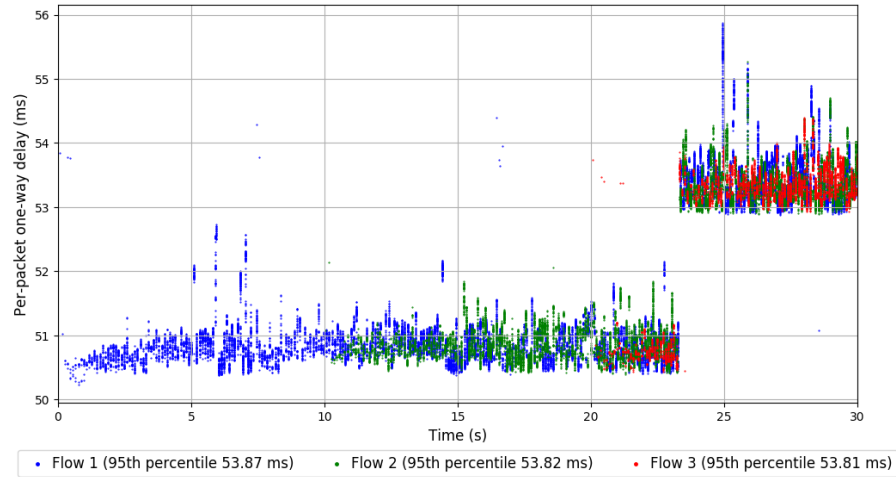
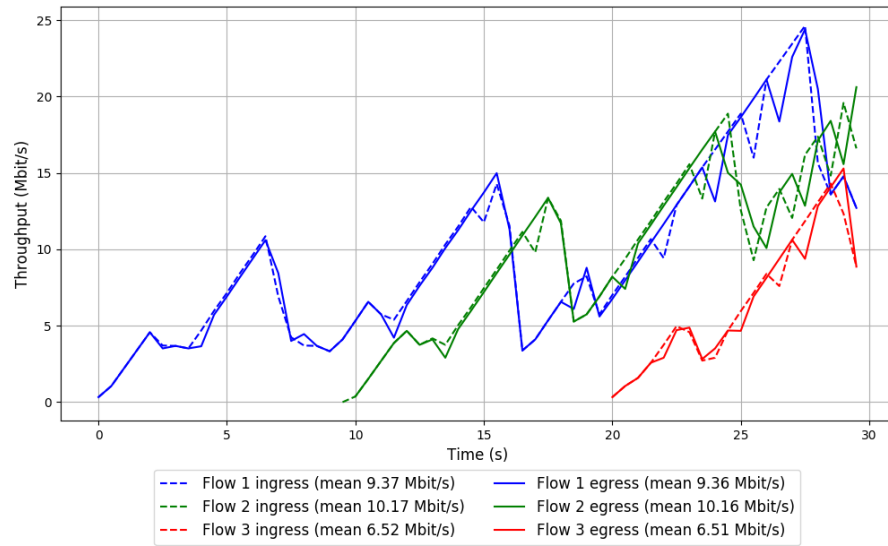
-- Flow 3:

Average throughput: 6.51 Mbit/s

95th percentile per-packet one-way delay: 53.809 ms

Loss rate: 0.07%

Run 10: Report of LEDBAT — Data Link

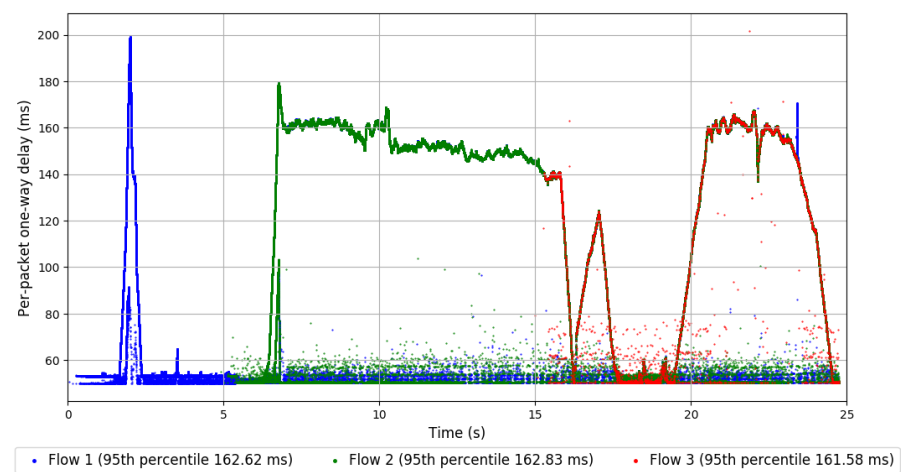
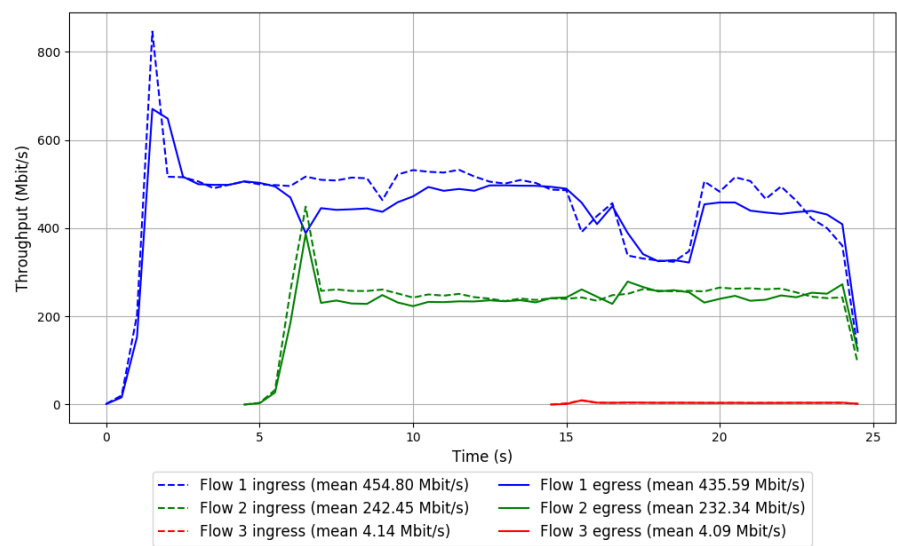


```
Run 1: Statistics of PCC

Start at: 2017-11-17 01:41:44
End at: 2017-11-17 01:42:14

# Below is generated by plot.py at 2017-11-17 05:04:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 623.84 Mbit/s
95th percentile per-packet one-way delay: 162.685 ms
Loss rate: 4.21%
-- Flow 1:
Average throughput: 435.59 Mbit/s
95th percentile per-packet one-way delay: 162.620 ms
Loss rate: 4.22%
-- Flow 2:
Average throughput: 232.34 Mbit/s
95th percentile per-packet one-way delay: 162.826 ms
Loss rate: 4.19%
-- Flow 3:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 161.577 ms
Loss rate: 1.54%
```

Run 1: Report of PCC — Data Link

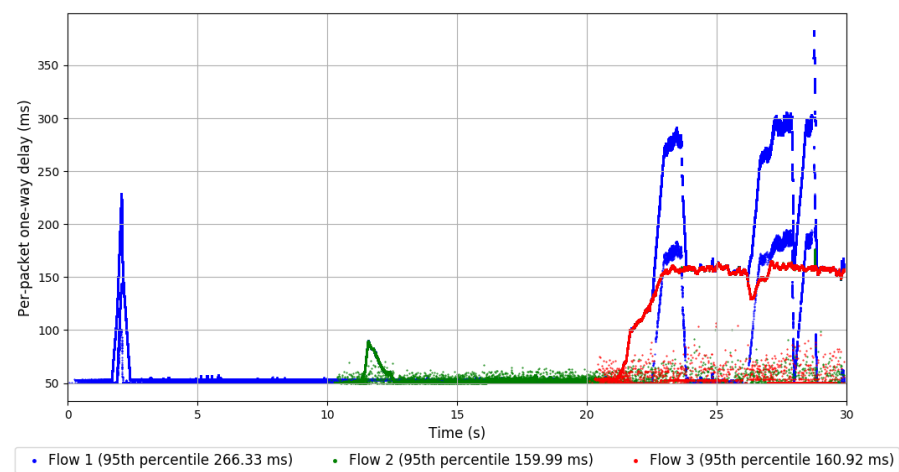
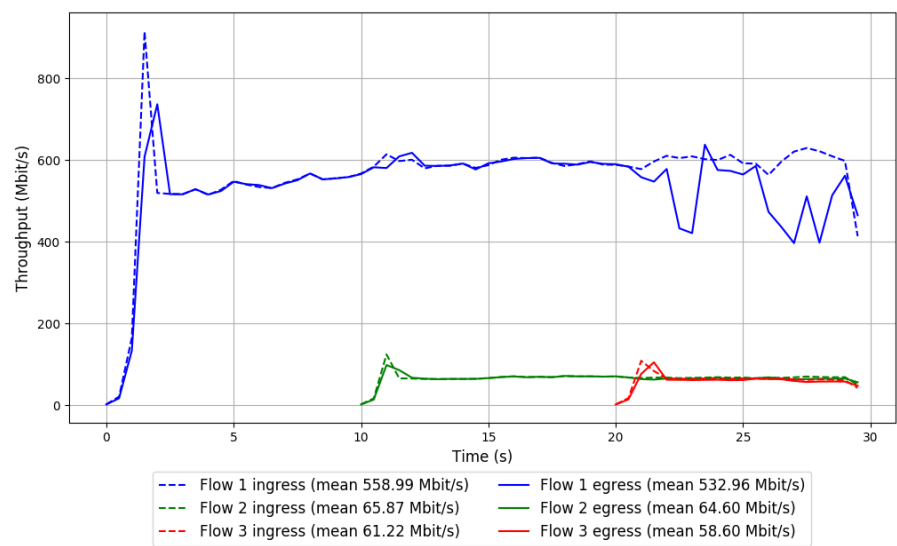


```
Run 2: Statistics of PCC

Start at: 2017-11-17 01:53:48
End at: 2017-11-17 01:54:18

# Below is generated by plot.py at 2017-11-17 05:06:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 595.17 Mbit/s
95th percentile per-packet one-way delay: 261.533 ms
Loss rate: 4.45%
-- Flow 1:
Average throughput: 532.96 Mbit/s
95th percentile per-packet one-way delay: 266.326 ms
Loss rate: 4.65%
-- Flow 2:
Average throughput: 64.60 Mbit/s
95th percentile per-packet one-way delay: 159.987 ms
Loss rate: 1.91%
-- Flow 3:
Average throughput: 58.60 Mbit/s
95th percentile per-packet one-way delay: 160.920 ms
Loss rate: 4.26%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-17 02:05:39

End at: 2017-11-17 02:06:09

Below is generated by plot.py at 2017-11-17 05:06:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 612.71 Mbit/s

95th percentile per-packet one-way delay: 158.464 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 538.03 Mbit/s

95th percentile per-packet one-way delay: 158.855 ms

Loss rate: 1.14%

-- Flow 2:

Average throughput: 89.27 Mbit/s

95th percentile per-packet one-way delay: 151.413 ms

Loss rate: 1.09%

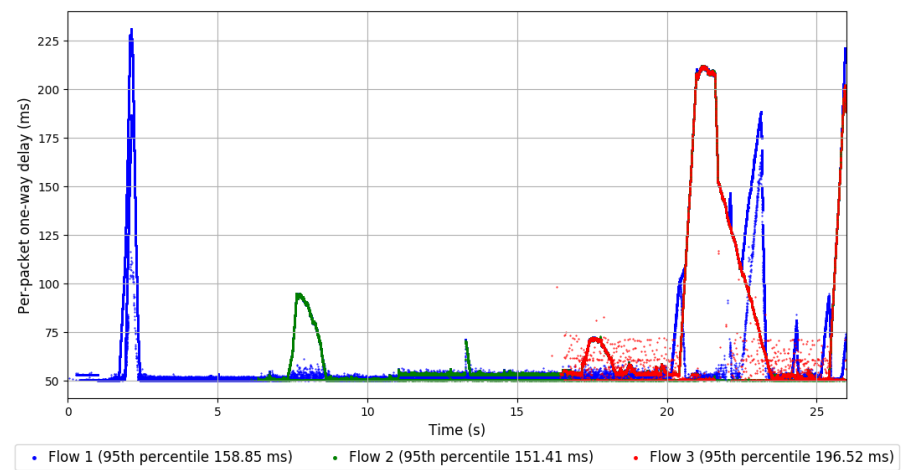
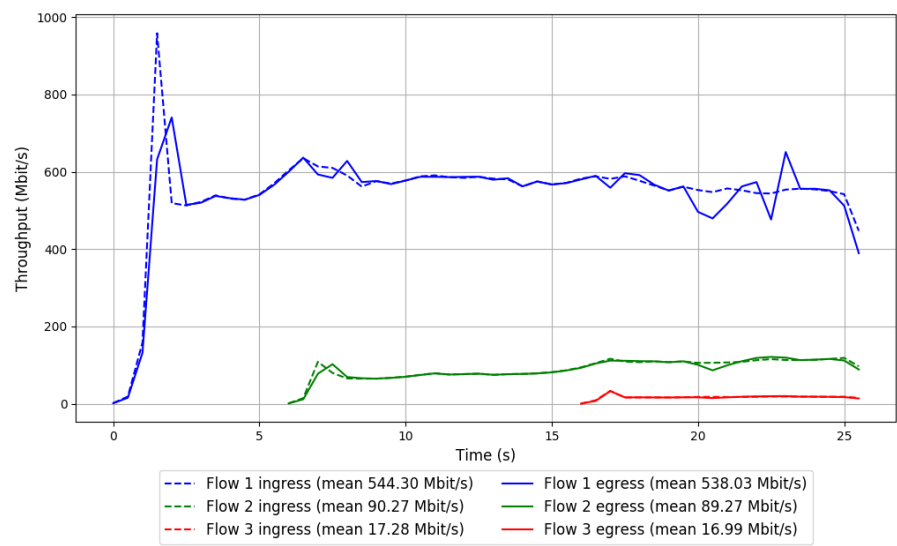
-- Flow 3:

Average throughput: 16.99 Mbit/s

95th percentile per-packet one-way delay: 196.517 ms

Loss rate: 1.70%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-17 02:17:43

End at: 2017-11-17 02:18:14

Below is generated by plot.py at 2017-11-17 05:06:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 582.74 Mbit/s

95th percentile per-packet one-way delay: 157.625 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 468.90 Mbit/s

95th percentile per-packet one-way delay: 161.560 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 141.08 Mbit/s

95th percentile per-packet one-way delay: 107.382 ms

Loss rate: 0.00%

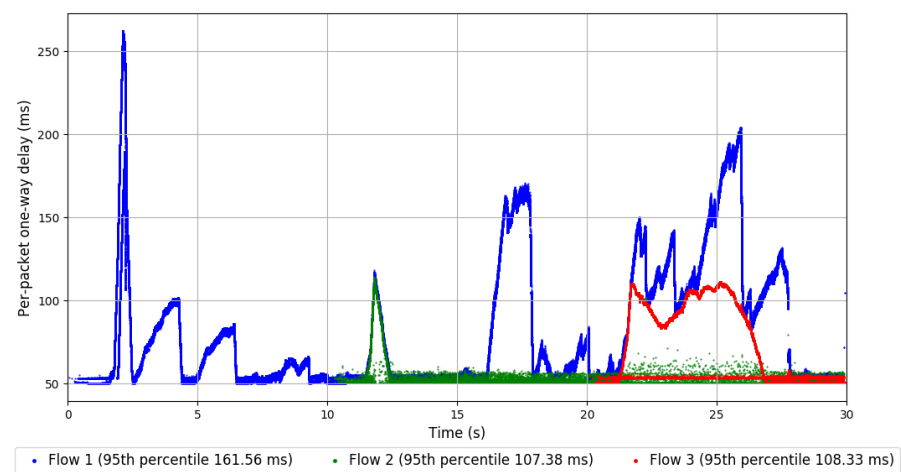
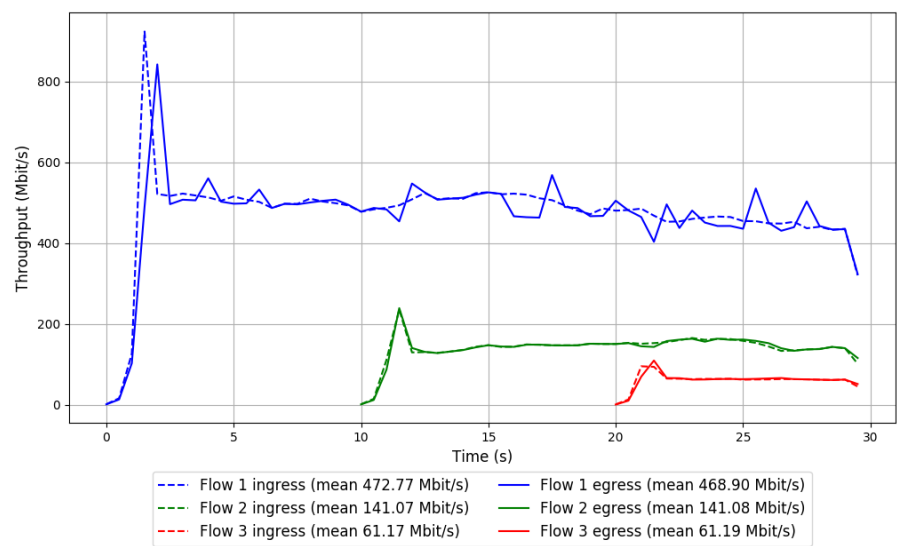
-- Flow 3:

Average throughput: 61.19 Mbit/s

95th percentile per-packet one-way delay: 108.326 ms

Loss rate: 0.00%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-17 02:29:38

End at: 2017-11-17 02:30:08

Below is generated by plot.py at 2017-11-17 05:06:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 621.72 Mbit/s

95th percentile per-packet one-way delay: 111.278 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 576.48 Mbit/s

95th percentile per-packet one-way delay: 111.274 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 40.27 Mbit/s

95th percentile per-packet one-way delay: 108.947 ms

Loss rate: 0.01%

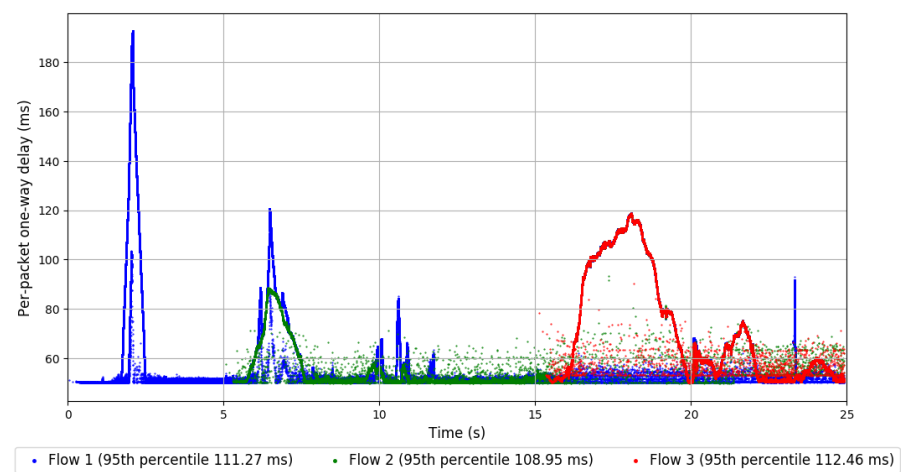
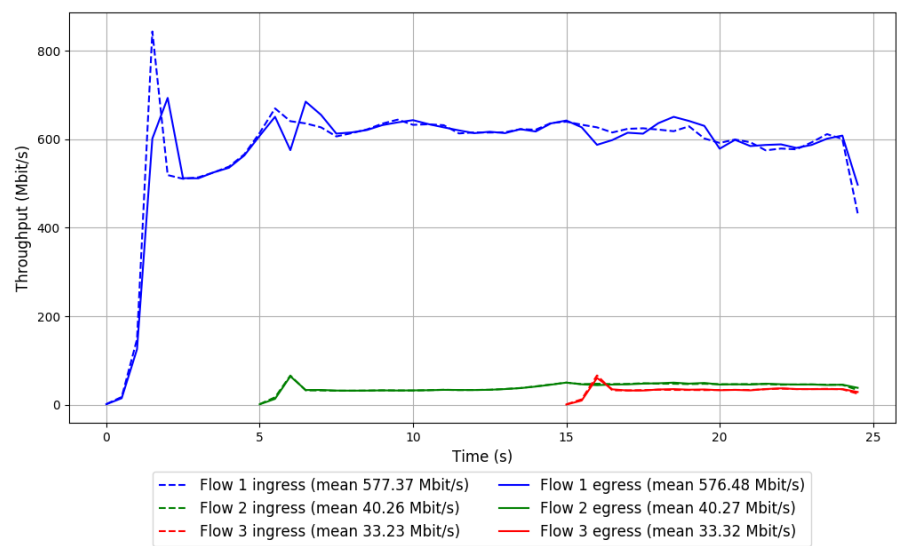
-- Flow 3:

Average throughput: 33.32 Mbit/s

95th percentile per-packet one-way delay: 112.462 ms

Loss rate: 0.00%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-17 02:41:30

End at: 2017-11-17 02:42:00

Below is generated by plot.py at 2017-11-17 05:09:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 620.50 Mbit/s

95th percentile per-packet one-way delay: 139.851 ms

Loss rate: 1.33%

-- Flow 1:

Average throughput: 556.79 Mbit/s

95th percentile per-packet one-way delay: 141.619 ms

Loss rate: 1.41%

-- Flow 2:

Average throughput: 63.50 Mbit/s

95th percentile per-packet one-way delay: 136.120 ms

Loss rate: 0.44%

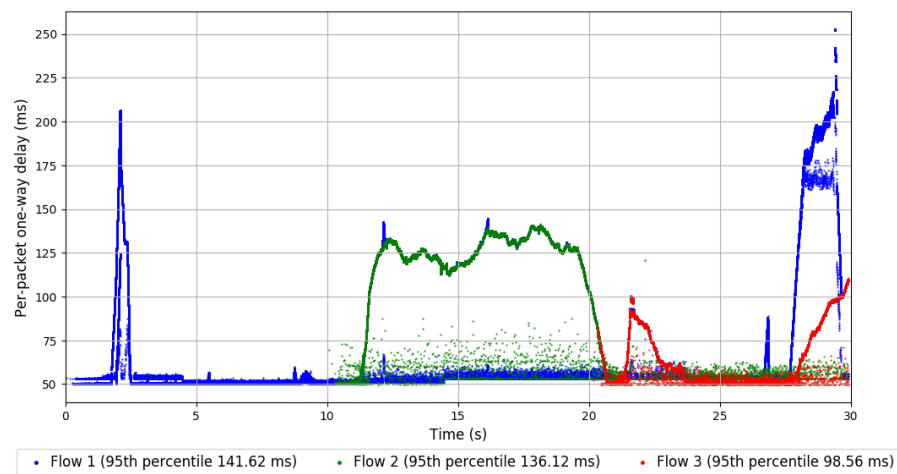
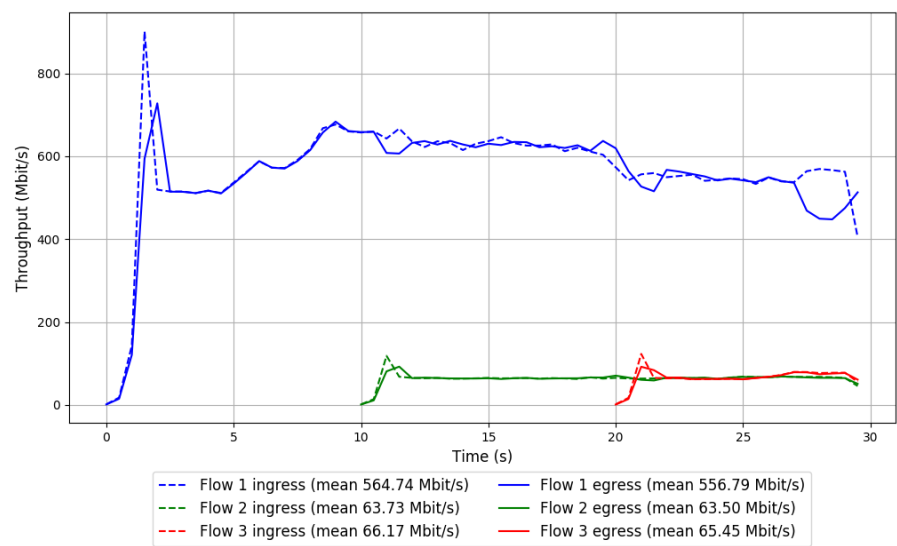
-- Flow 3:

Average throughput: 65.45 Mbit/s

95th percentile per-packet one-way delay: 98.556 ms

Loss rate: 1.06%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-17 02:53:43

End at: 2017-11-17 02:54:13

Below is generated by plot.py at 2017-11-17 05:10:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 626.21 Mbit/s

95th percentile per-packet one-way delay: 158.098 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 604.12 Mbit/s

95th percentile per-packet one-way delay: 158.097 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 31.09 Mbit/s

95th percentile per-packet one-way delay: 158.228 ms

Loss rate: 0.87%

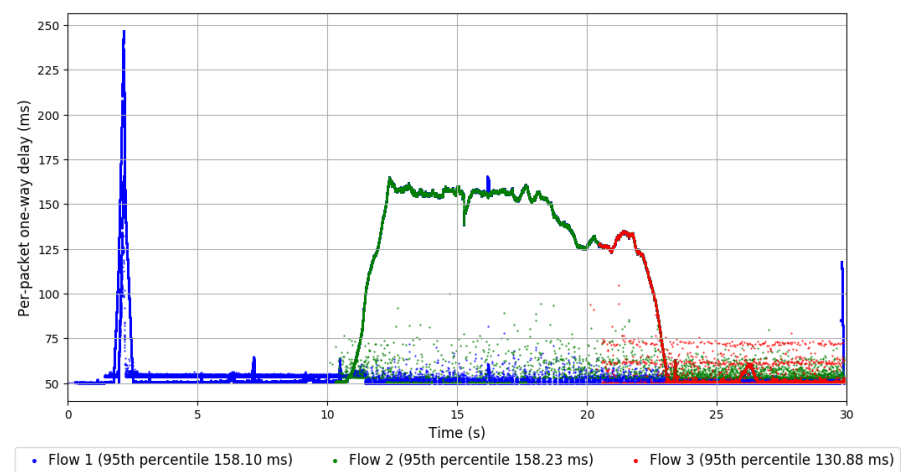
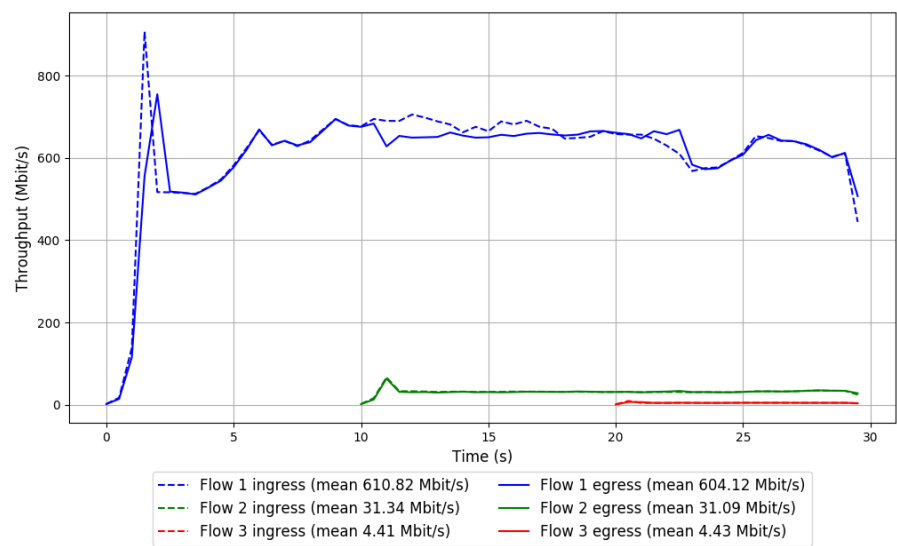
-- Flow 3:

Average throughput: 4.43 Mbit/s

95th percentile per-packet one-way delay: 130.884 ms

Loss rate: 0.00%

Run 7: Report of PCC — Data Link

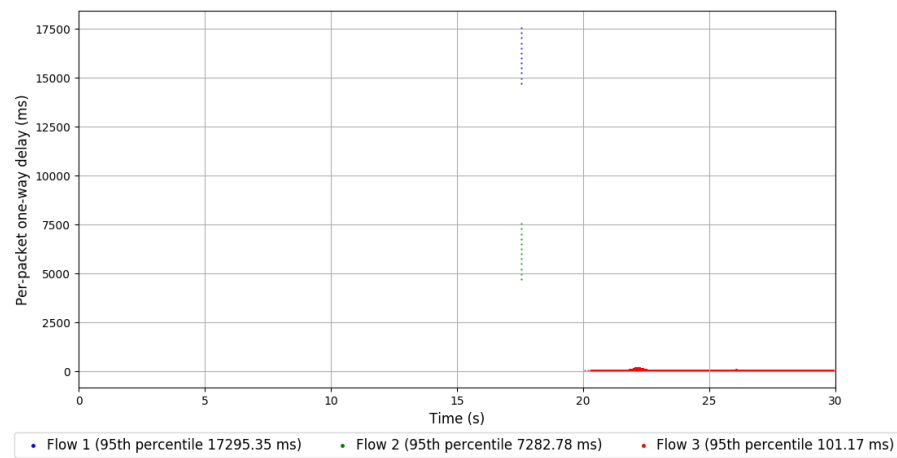
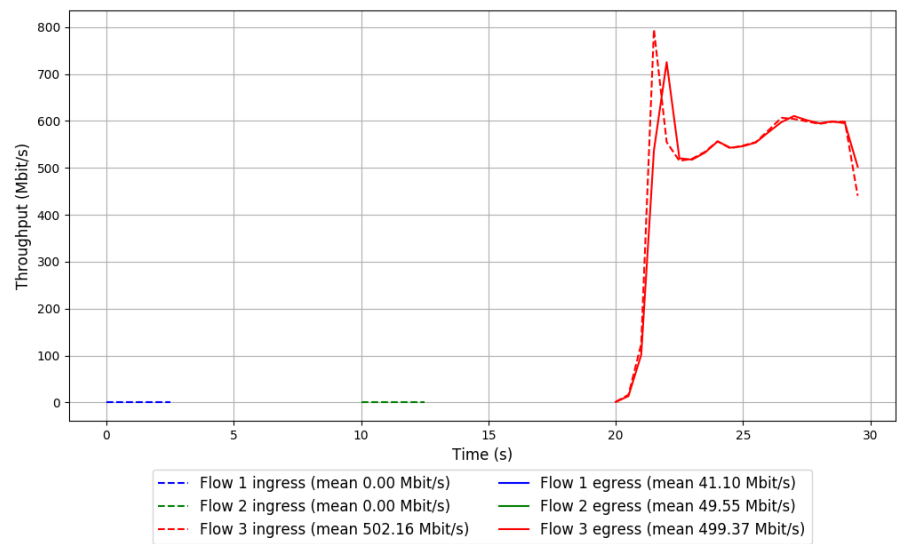


Run 8: Statistics of PCC

Start at: 2017-11-17 03:05:54

End at: 2017-11-17 03:06:24

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-11-17 03:17:47

End at: 2017-11-17 03:18:17

Below is generated by plot.py at 2017-11-17 05:14:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 638.02 Mbit/s

95th percentile per-packet one-way delay: 157.167 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 577.67 Mbit/s

95th percentile per-packet one-way delay: 156.941 ms

Loss rate: 1.30%

-- Flow 2:

Average throughput: 59.07 Mbit/s

95th percentile per-packet one-way delay: 157.210 ms

Loss rate: 1.12%

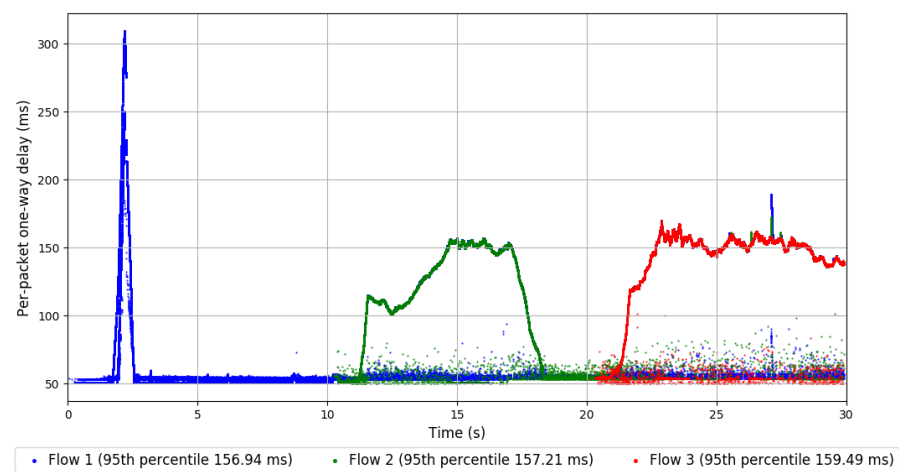
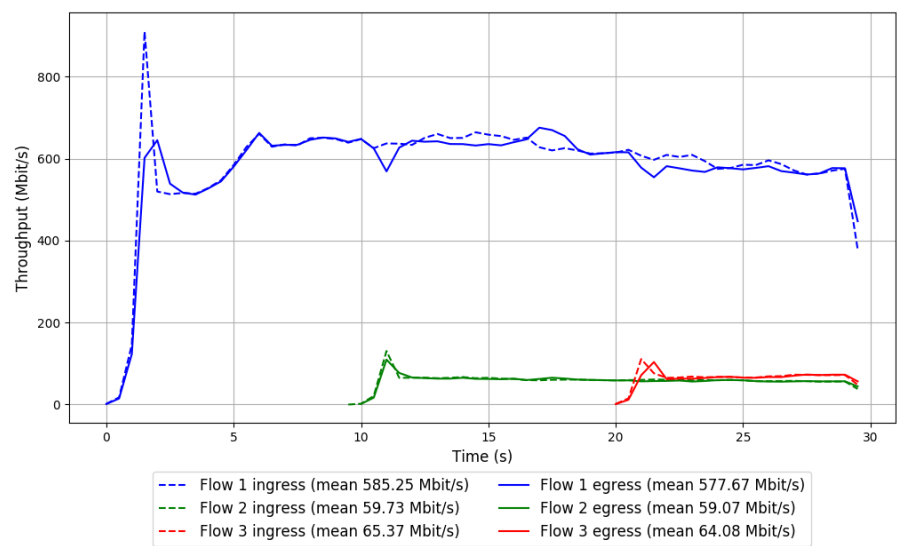
-- Flow 3:

Average throughput: 64.08 Mbit/s

95th percentile per-packet one-way delay: 159.493 ms

Loss rate: 1.98%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-11-17 03:30:05

End at: 2017-11-17 03:30:35

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 555.43 Mbit/s

95th percentile per-packet one-way delay: 175.258 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 496.18 Mbit/s

95th percentile per-packet one-way delay: 185.790 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 80.98 Mbit/s

95th percentile per-packet one-way delay: 100.438 ms

Loss rate: 0.03%

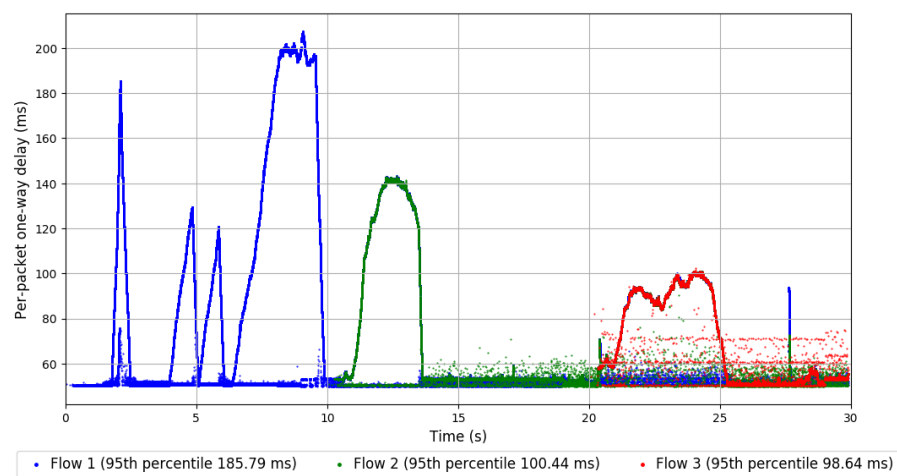
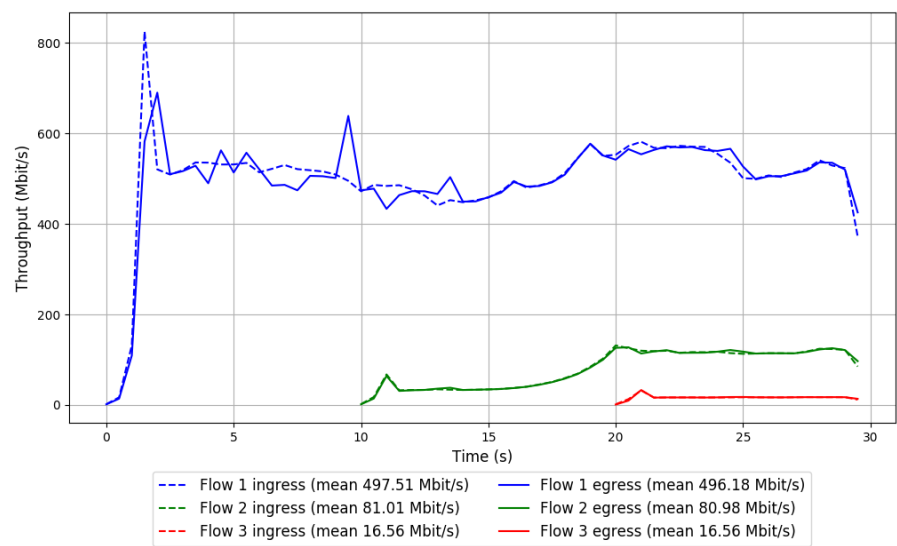
-- Flow 3:

Average throughput: 16.56 Mbit/s

95th percentile per-packet one-way delay: 98.645 ms

Loss rate: 0.04%

Run 10: Report of PCC — Data Link

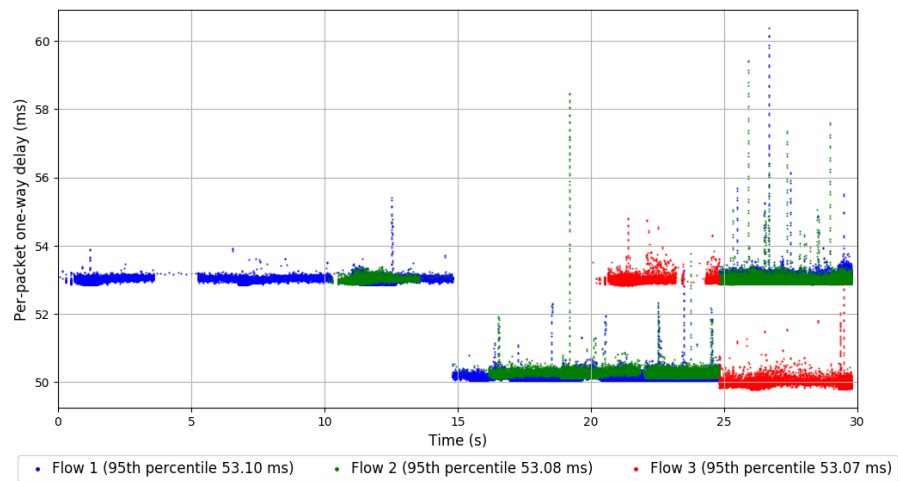
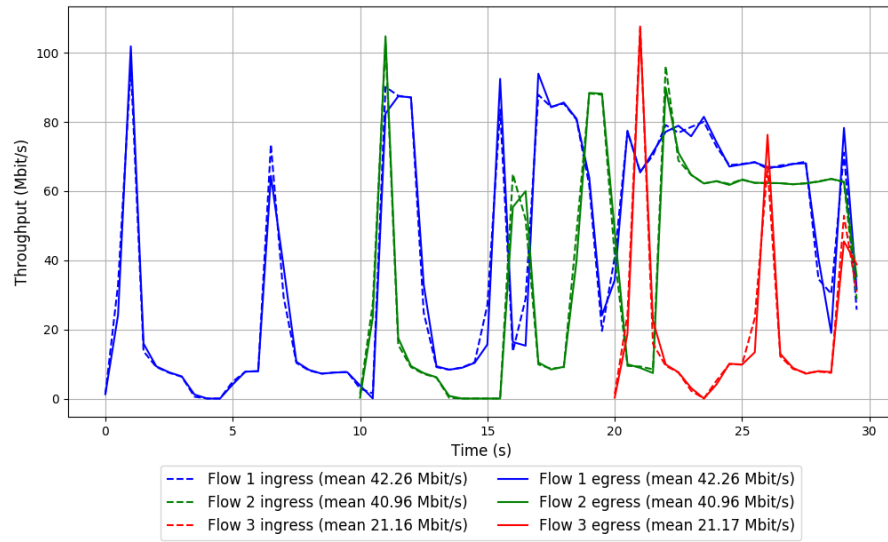


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-17 01:40:59
End at: 2017-11-17 01:41:29

# Below is generated by plot.py at 2017-11-17 05:15:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.34 Mbit/s
95th percentile per-packet one-way delay: 53.092 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.26 Mbit/s
95th percentile per-packet one-way delay: 53.104 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.96 Mbit/s
95th percentile per-packet one-way delay: 53.076 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 21.17 Mbit/s
95th percentile per-packet one-way delay: 53.074 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-11-17 01:53:03

End at: 2017-11-17 01:53:33

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.95 Mbit/s

95th percentile per-packet one-way delay: 53.285 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.26 Mbit/s

95th percentile per-packet one-way delay: 53.253 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.04 Mbit/s

95th percentile per-packet one-way delay: 53.258 ms

Loss rate: 0.00%

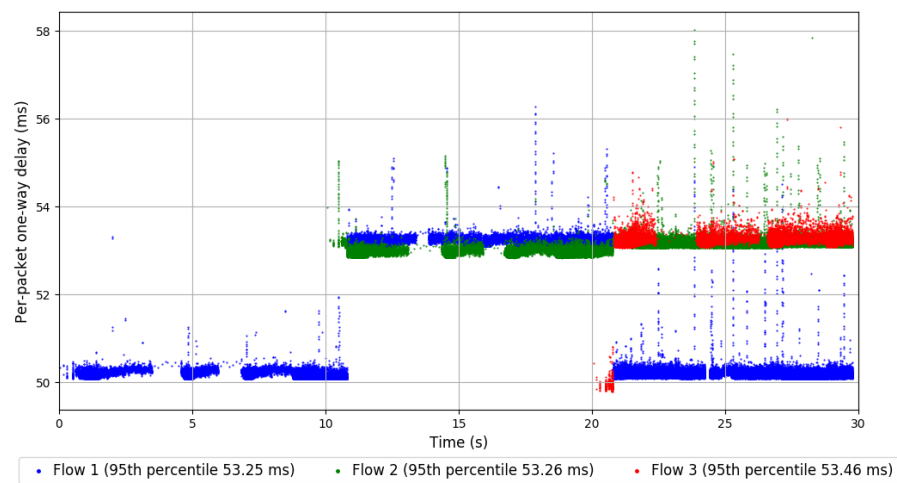
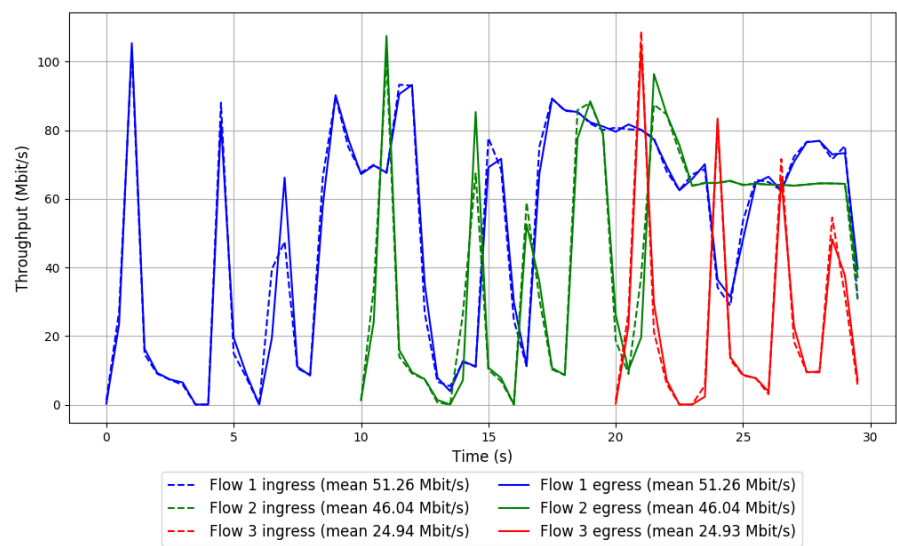
-- Flow 3:

Average throughput: 24.93 Mbit/s

95th percentile per-packet one-way delay: 53.461 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-17 02:04:54

End at: 2017-11-17 02:05:24

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.99 Mbit/s

95th percentile per-packet one-way delay: 53.210 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 37.43 Mbit/s

95th percentile per-packet one-way delay: 52.980 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.44 Mbit/s

95th percentile per-packet one-way delay: 53.084 ms

Loss rate: 0.00%

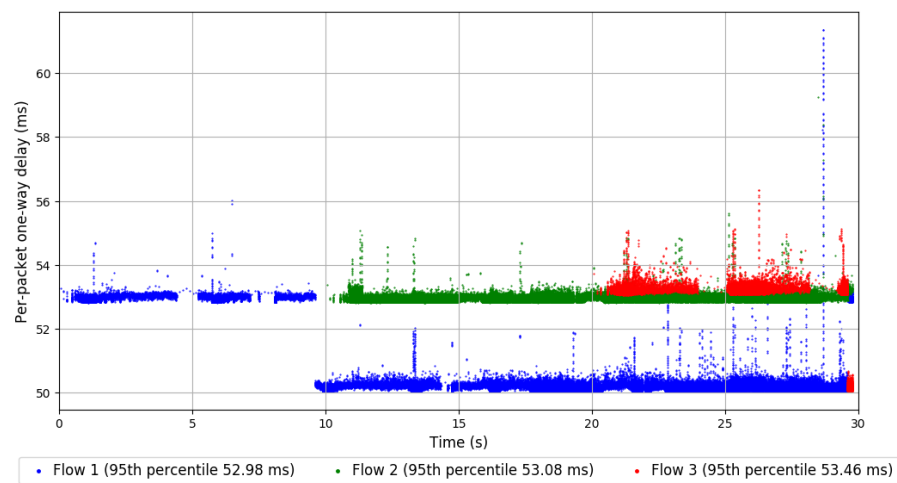
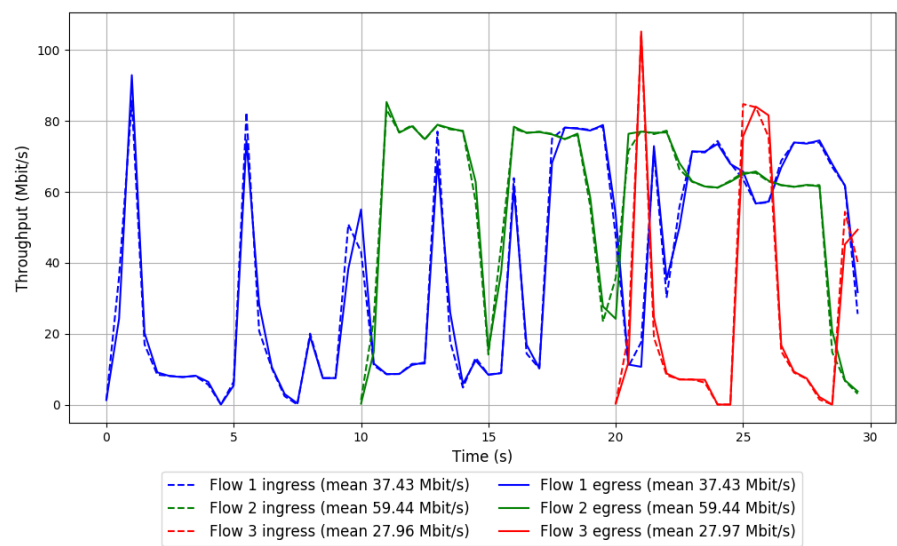
-- Flow 3:

Average throughput: 27.97 Mbit/s

95th percentile per-packet one-way delay: 53.456 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-17 02:16:59

End at: 2017-11-17 02:17:29

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.42 Mbit/s

95th percentile per-packet one-way delay: 53.356 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.08 Mbit/s

95th percentile per-packet one-way delay: 53.345 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.94 Mbit/s

95th percentile per-packet one-way delay: 53.387 ms

Loss rate: 0.00%

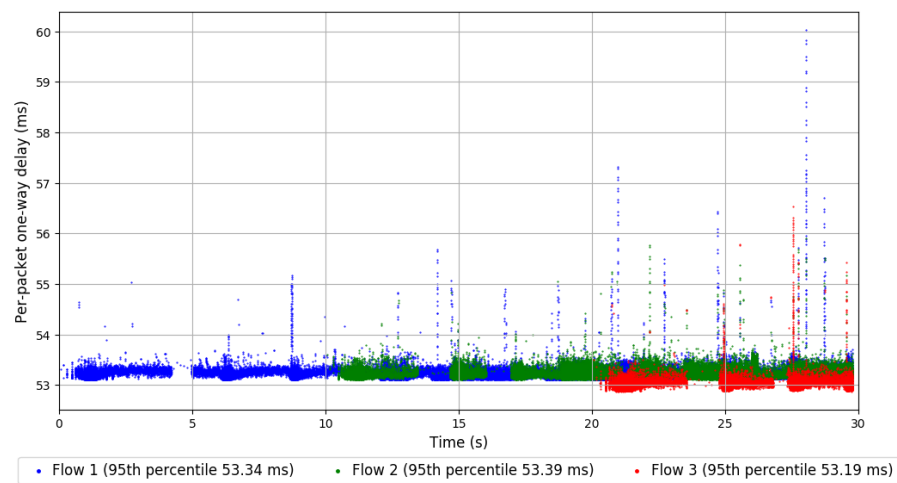
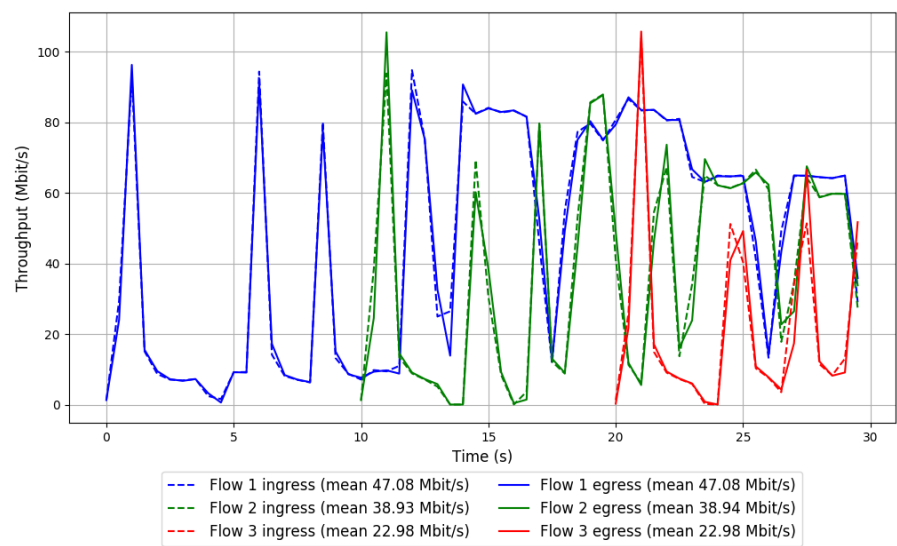
-- Flow 3:

Average throughput: 22.98 Mbit/s

95th percentile per-packet one-way delay: 53.187 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-17 02:28:53

End at: 2017-11-17 02:29:23

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.34 Mbit/s

95th percentile per-packet one-way delay: 53.263 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.43 Mbit/s

95th percentile per-packet one-way delay: 50.079 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.26 Mbit/s

95th percentile per-packet one-way delay: 53.349 ms

Loss rate: 0.00%

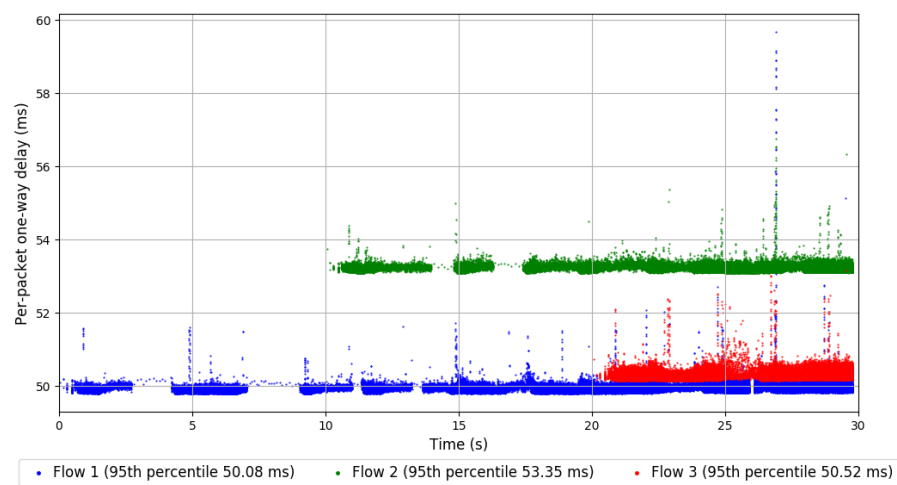
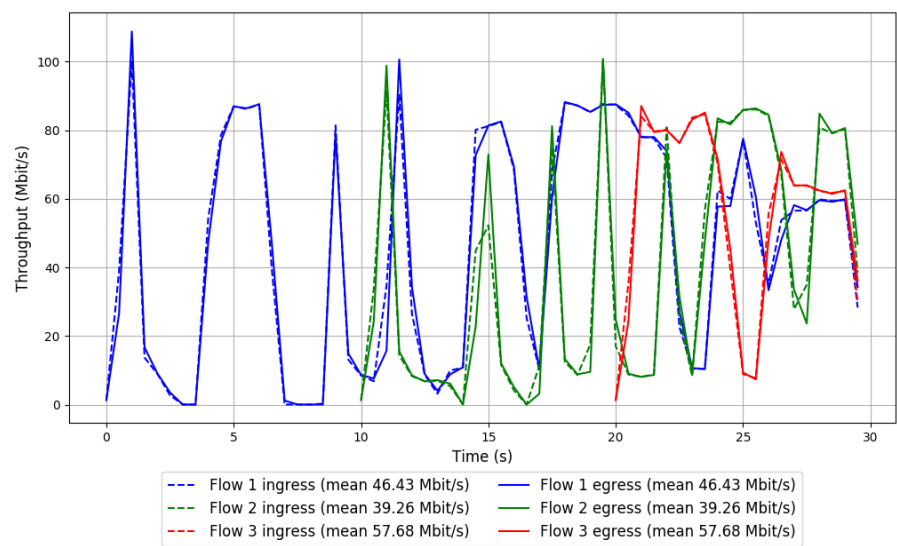
-- Flow 3:

Average throughput: 57.68 Mbit/s

95th percentile per-packet one-way delay: 50.524 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-17 02:40:45

End at: 2017-11-17 02:41:15

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.47 Mbit/s

95th percentile per-packet one-way delay: 53.334 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.01 Mbit/s

95th percentile per-packet one-way delay: 53.309 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 32.70 Mbit/s

95th percentile per-packet one-way delay: 53.382 ms

Loss rate: 0.00%

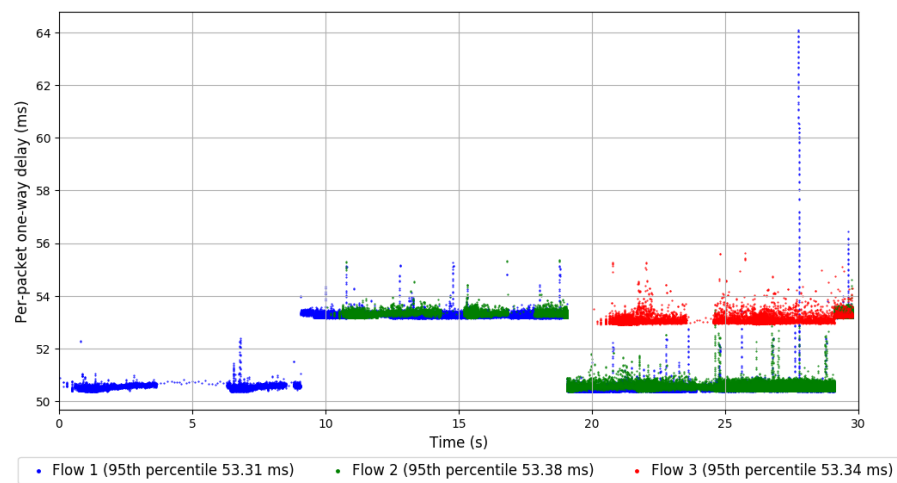
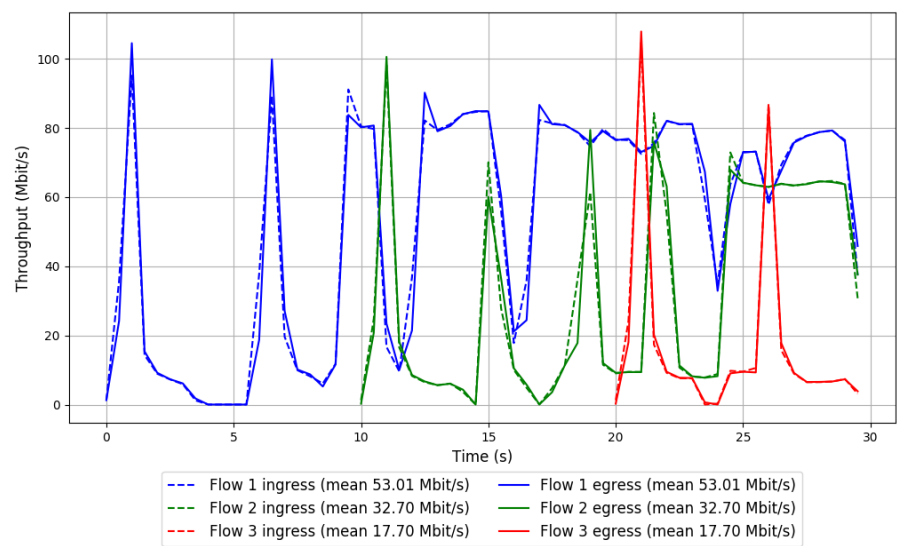
-- Flow 3:

Average throughput: 17.70 Mbit/s

95th percentile per-packet one-way delay: 53.338 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-17 02:52:58

End at: 2017-11-17 02:53:28

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.57 Mbit/s

95th percentile per-packet one-way delay: 53.720 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 42.72 Mbit/s

95th percentile per-packet one-way delay: 53.755 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.71 Mbit/s

95th percentile per-packet one-way delay: 53.647 ms

Loss rate: 0.01%

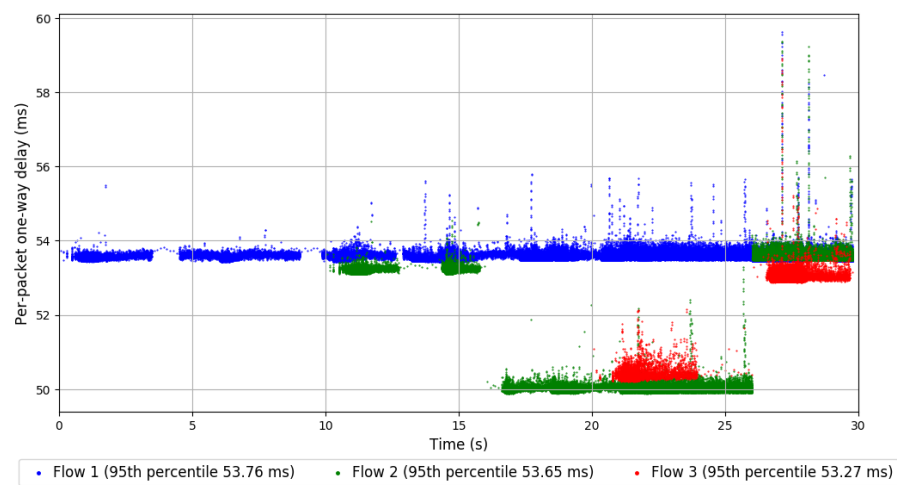
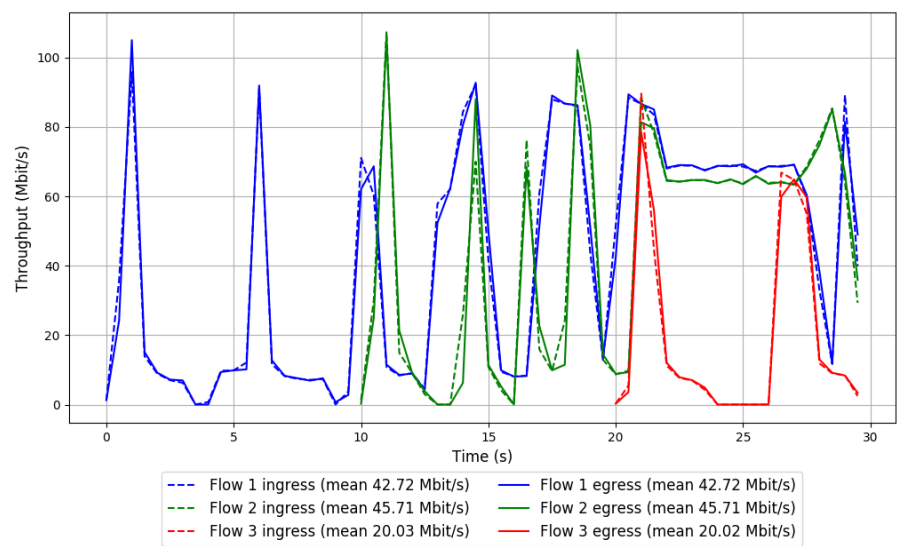
-- Flow 3:

Average throughput: 20.02 Mbit/s

95th percentile per-packet one-way delay: 53.272 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link

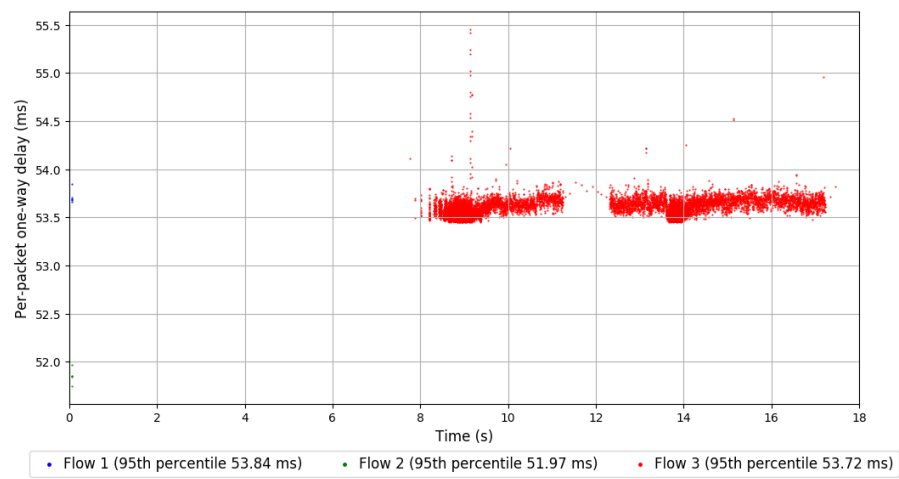
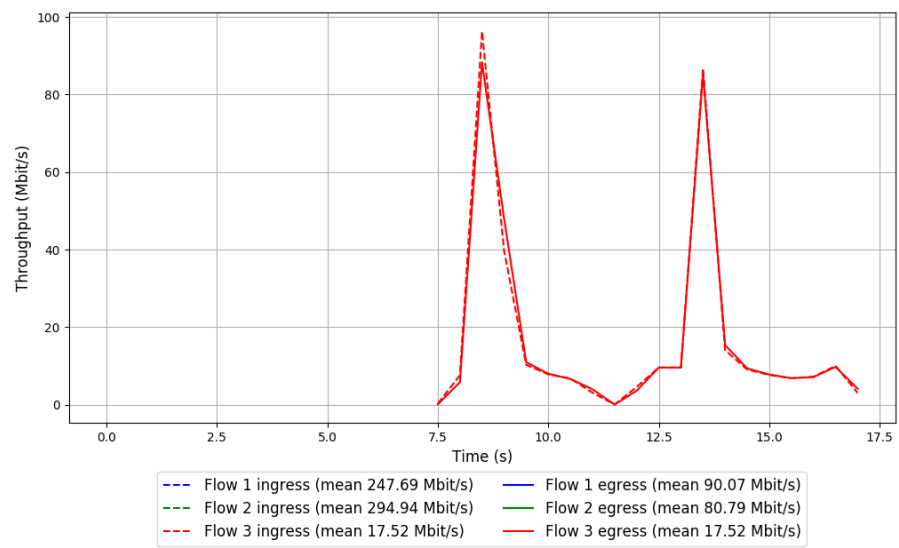


Run 8: Statistics of QUIC Cubic

Start at: 2017-11-17 03:05:14

End at: 2017-11-17 03:05:44

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-17 03:17:01

End at: 2017-11-17 03:17:31

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.35 Mbit/s

95th percentile per-packet one-way delay: 53.542 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 69.22 Mbit/s

95th percentile per-packet one-way delay: 53.576 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 41.35 Mbit/s

95th percentile per-packet one-way delay: 50.573 ms

Loss rate: 0.00%

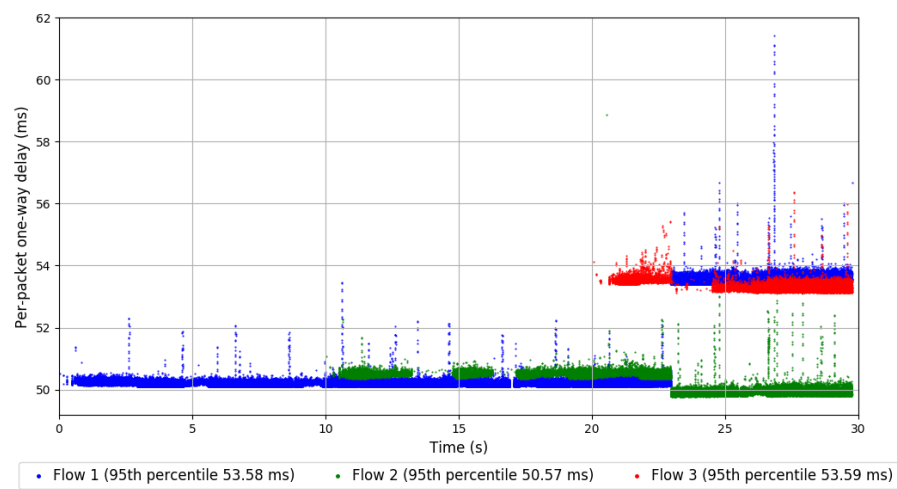
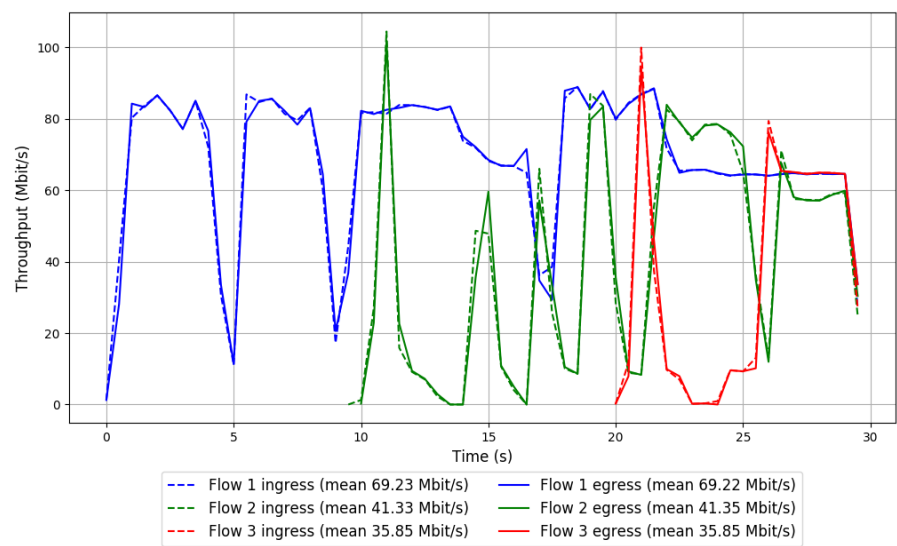
-- Flow 3:

Average throughput: 35.85 Mbit/s

95th percentile per-packet one-way delay: 53.585 ms

Loss rate: 0.04%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-11-17 03:29:20

End at: 2017-11-17 03:29:50

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 98.15 Mbit/s

95th percentile per-packet one-way delay: 50.590 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 68.51 Mbit/s

95th percentile per-packet one-way delay: 50.362 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 31.54 Mbit/s

95th percentile per-packet one-way delay: 53.534 ms

Loss rate: 0.03%

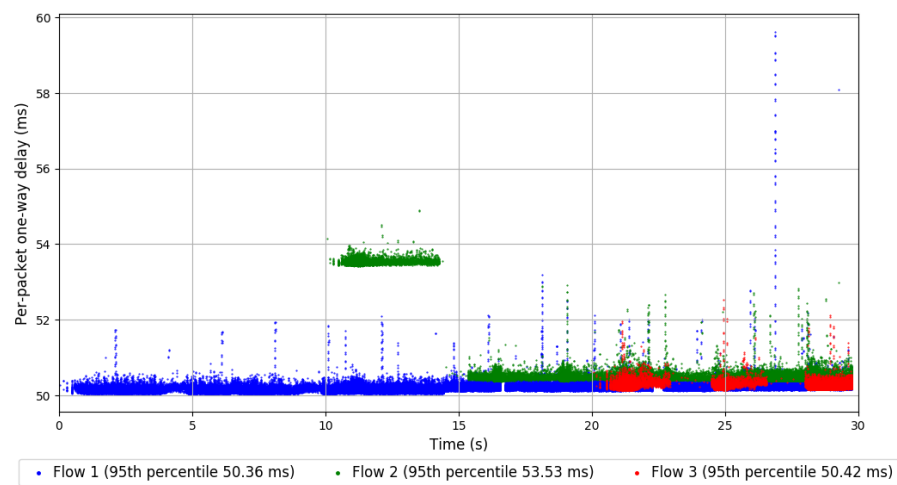
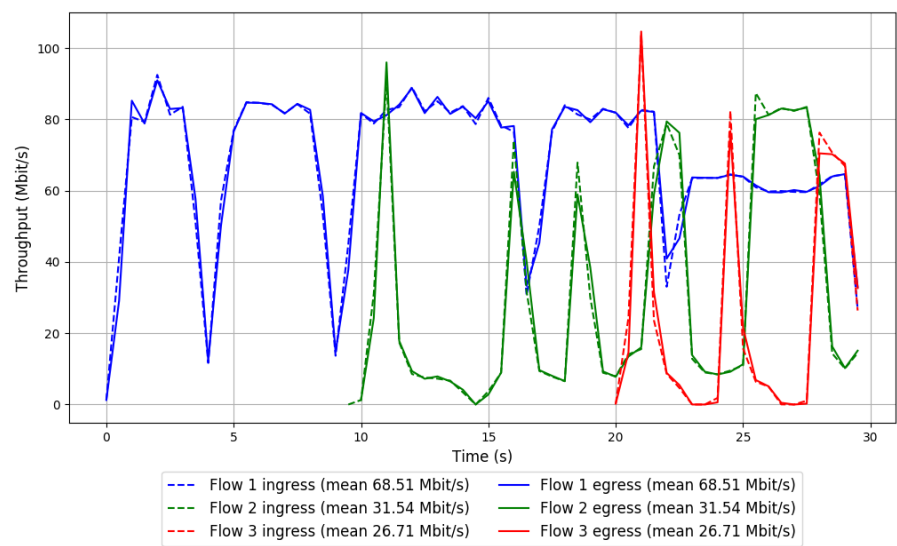
-- Flow 3:

Average throughput: 26.71 Mbit/s

95th percentile per-packet one-way delay: 50.417 ms

Loss rate: 0.02%

Run 10: Report of QUIC Cubic — Data Link

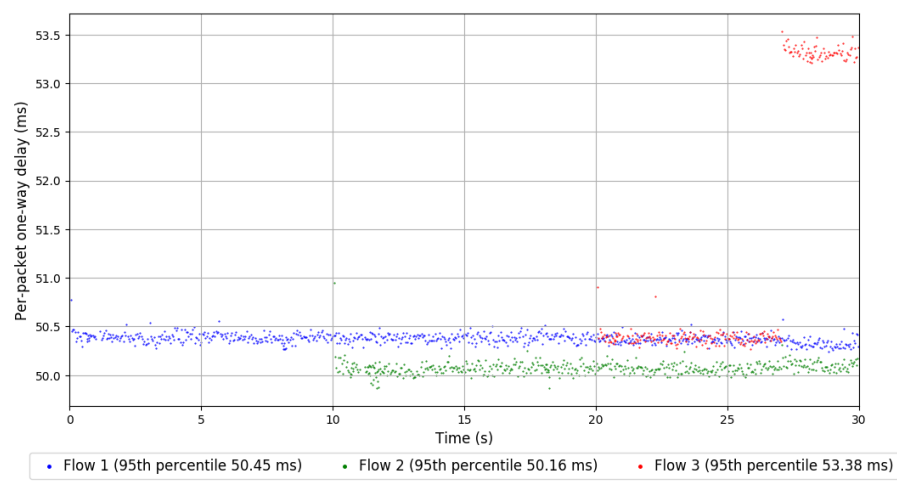
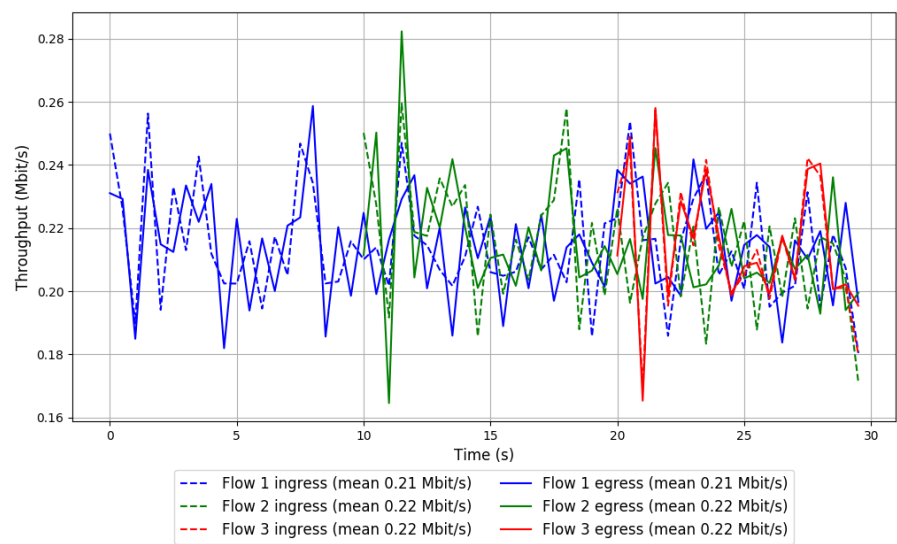


```
Run 1: Statistics of SReAM

Start at: 2017-11-17 01:39:17
End at: 2017-11-17 01:39:47

# Below is generated by plot.py at 2017-11-17 05:15:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.221 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.450 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.161 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.375 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

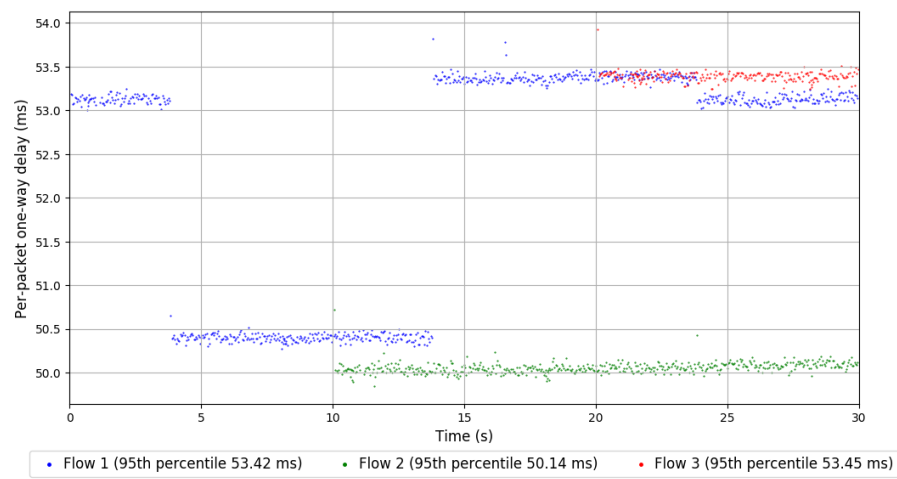
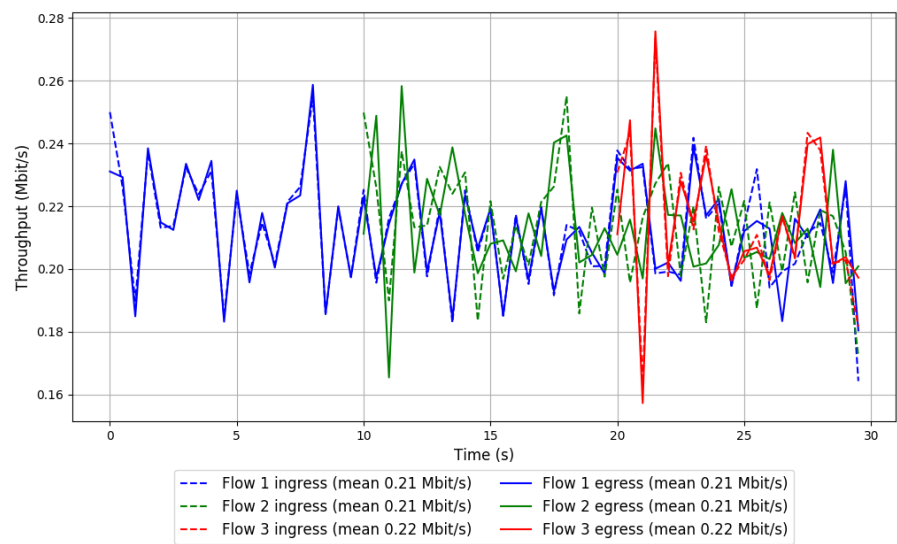


```
Run 2: Statistics of SReAM

Start at: 2017-11-17 01:51:30
End at: 2017-11-17 01:52:00

# Below is generated by plot.py at 2017-11-17 05:15:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.428 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.420 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.142 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.453 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-11-17 02:03:33

End at: 2017-11-17 02:04:03

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.403 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.425 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.234 ms

Loss rate: 0.00%

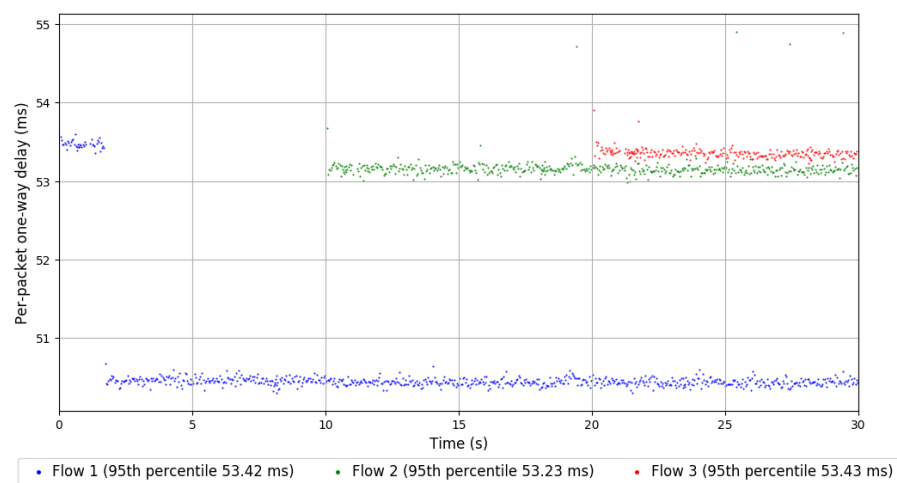
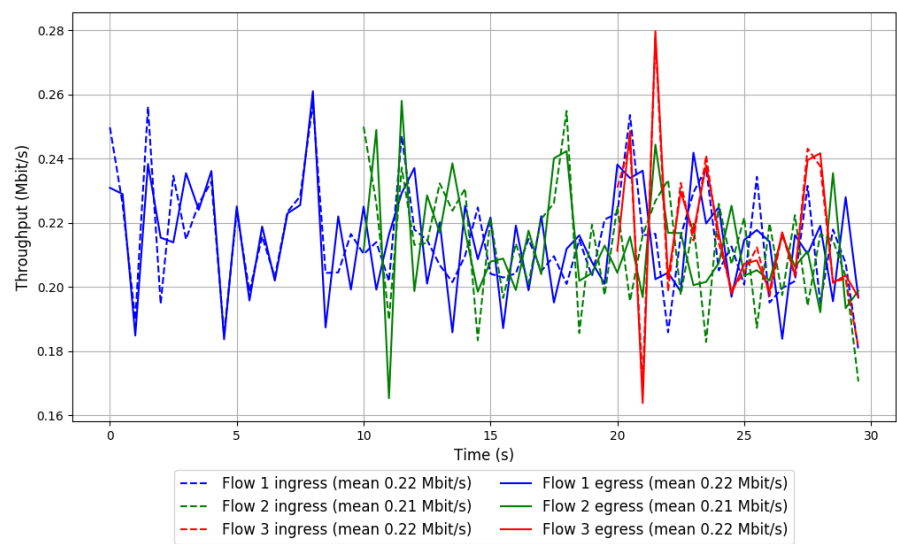
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.428 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

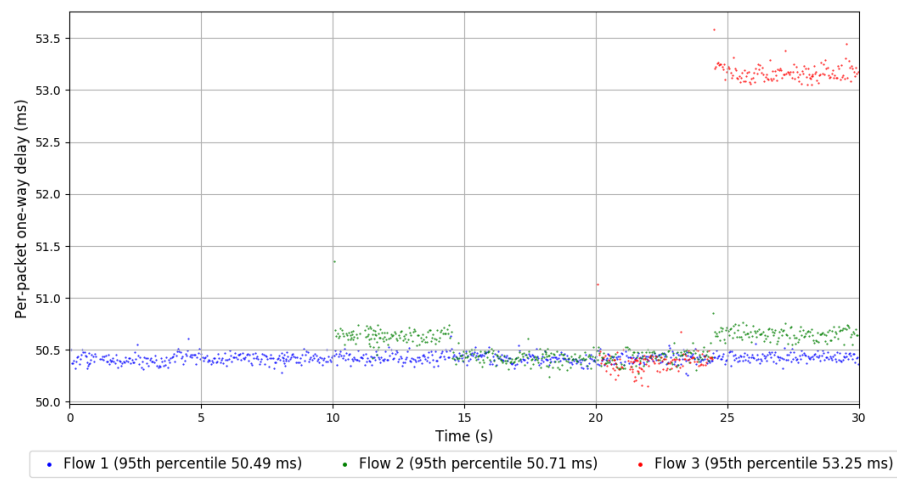
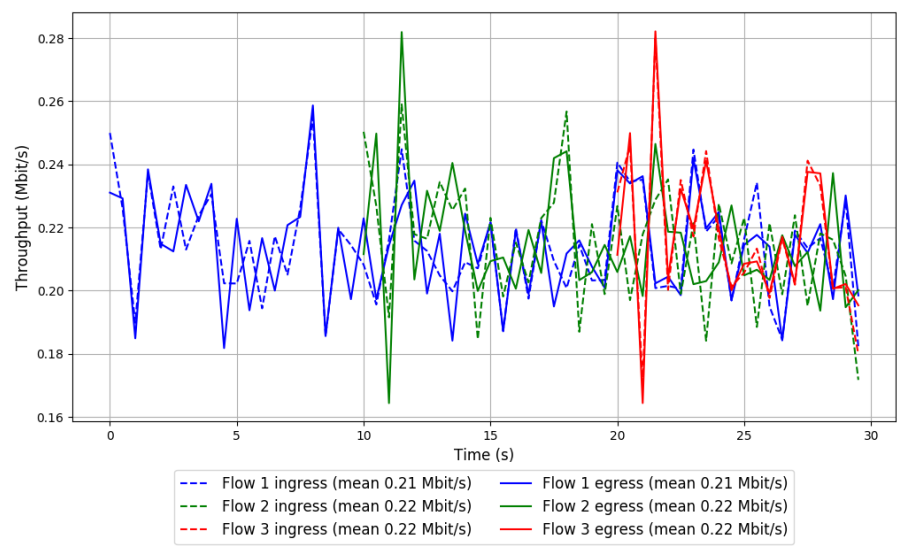


```
Run 4: Statistics of SCReAM

Start at: 2017-11-17 02:15:30
End at: 2017-11-17 02:16:00

# Below is generated by plot.py at 2017-11-17 05:15:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.151 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.488 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.708 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.249 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2017-11-17 02:27:31

End at: 2017-11-17 02:28:01

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.480 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.506 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.524 ms

Loss rate: 0.00%

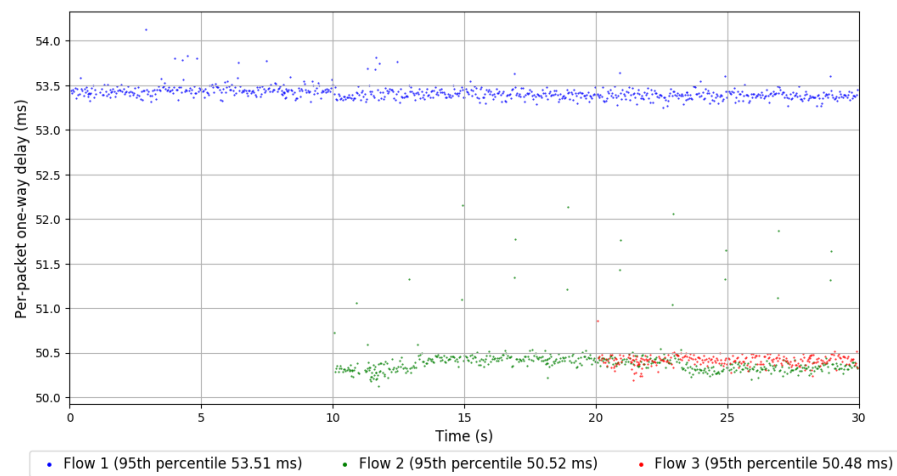
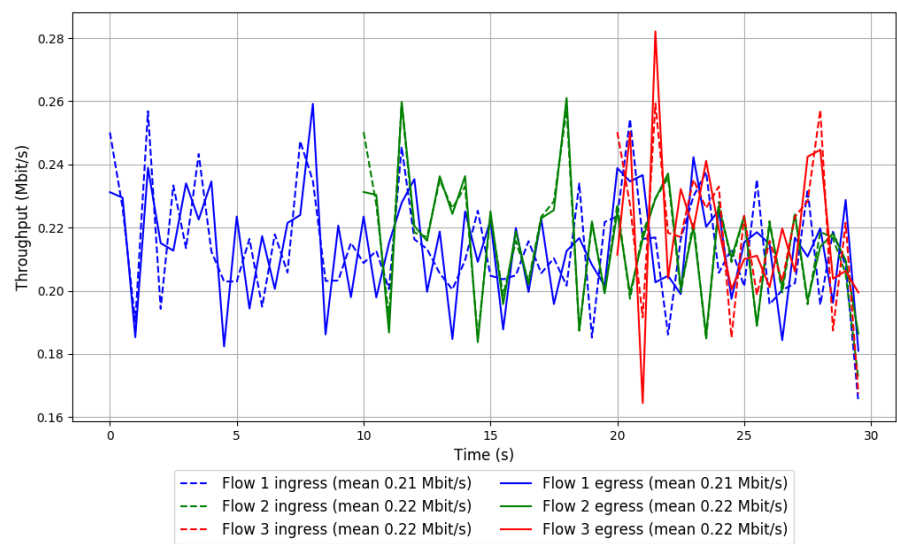
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.484 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2017-11-17 02:39:11

End at: 2017-11-17 02:39:41

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.477 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.284 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.498 ms

Loss rate: 0.00%

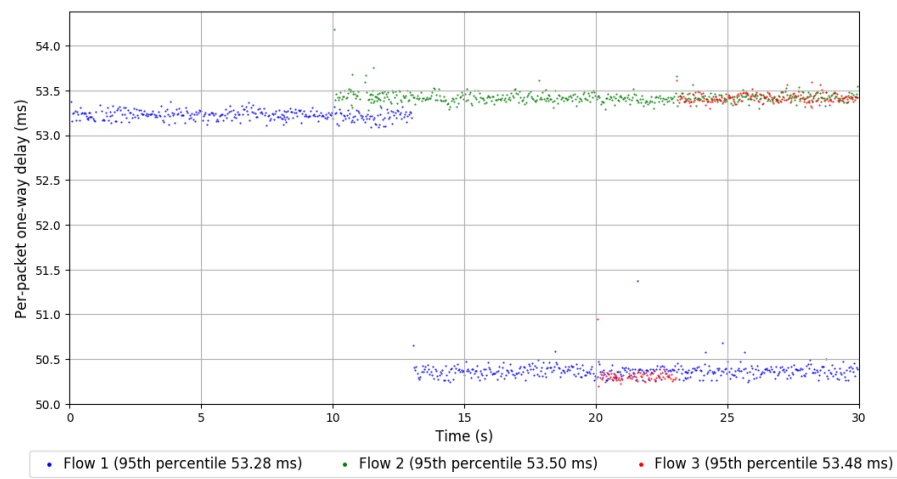
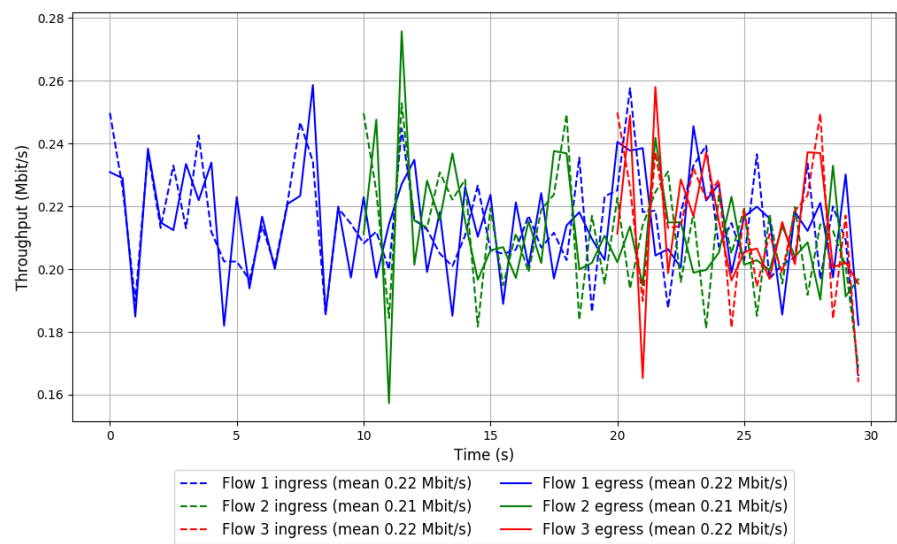
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.479 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

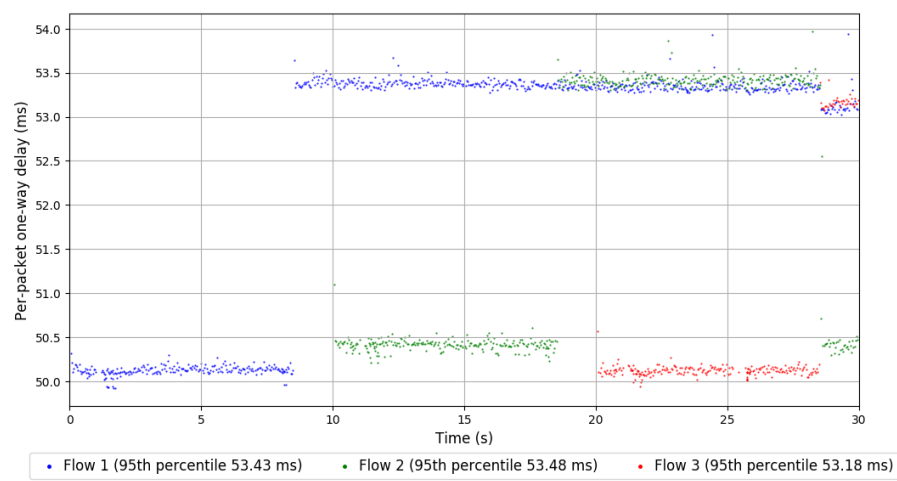
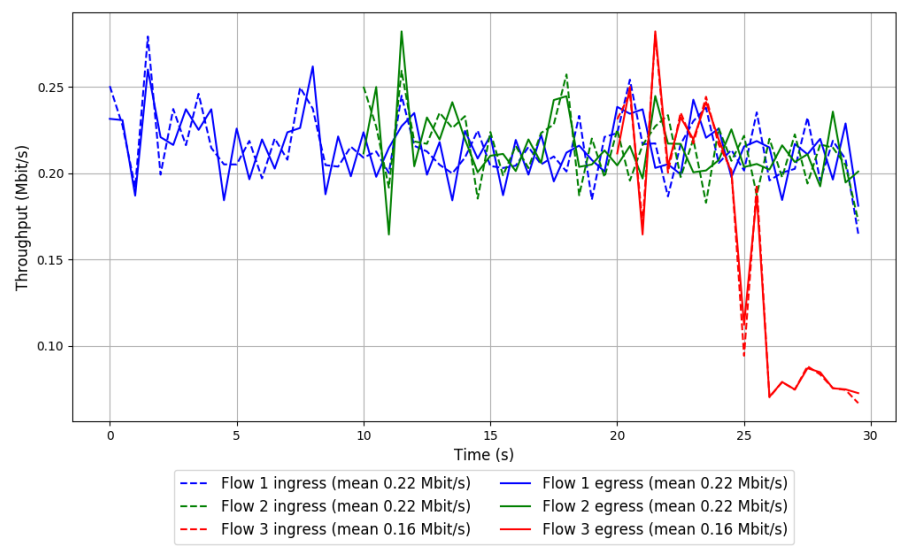


```
Run 7: Statistics of SReAM

Start at: 2017-11-17 02:51:16
End at: 2017-11-17 02:51:46

# Below is generated by plot.py at 2017-11-17 05:15:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 53.453 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.433 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.475 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 53.176 ms
Loss rate: 0.00%
```


Run 7: Report of SCReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-11-17 03:03:28

End at: 2017-11-17 03:03:58

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.657 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.391 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.228 ms

Loss rate: 0.00%

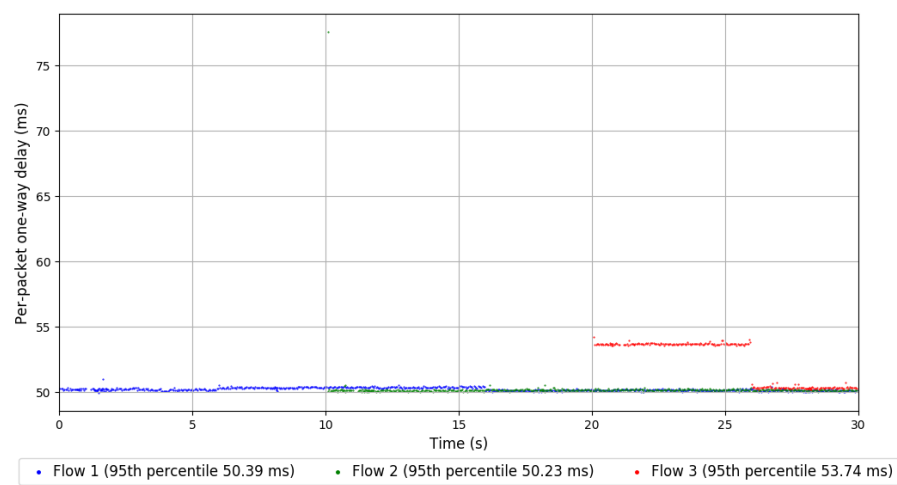
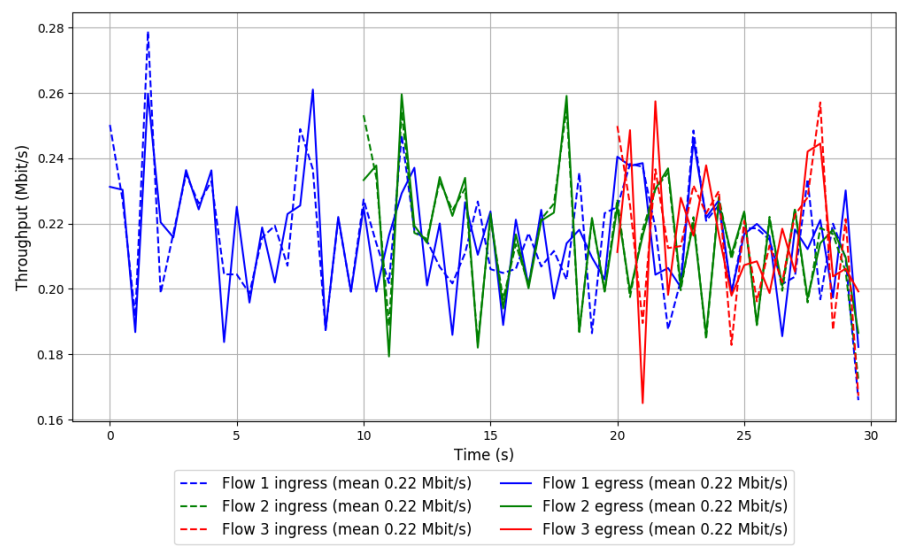
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.741 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-11-17 03:15:16

End at: 2017-11-17 03:15:46

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 53.752 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.758 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.771 ms

Loss rate: 0.00%

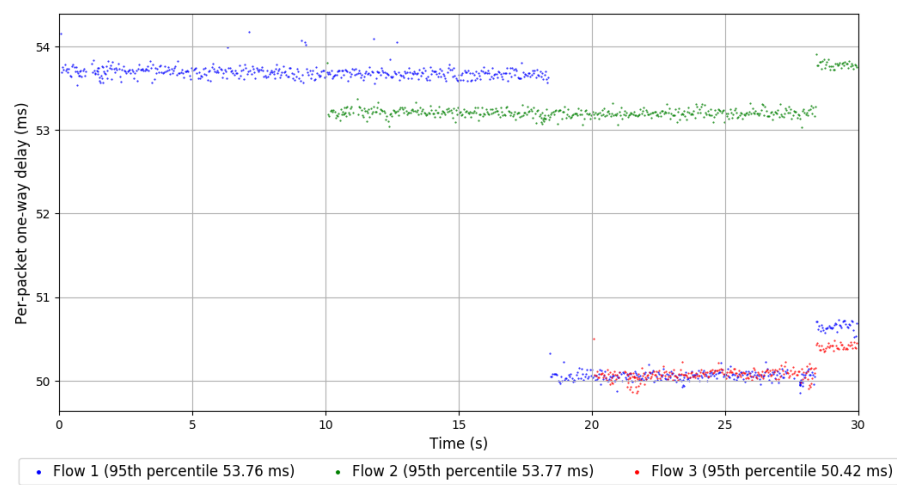
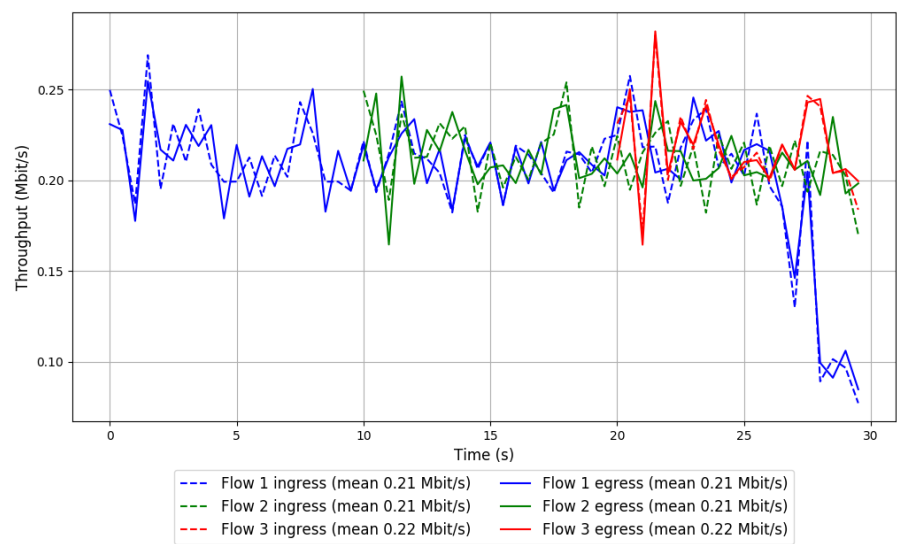
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.425 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2017-11-17 03:27:45

End at: 2017-11-17 03:28:15

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.855 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.881 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.241 ms

Loss rate: 0.00%

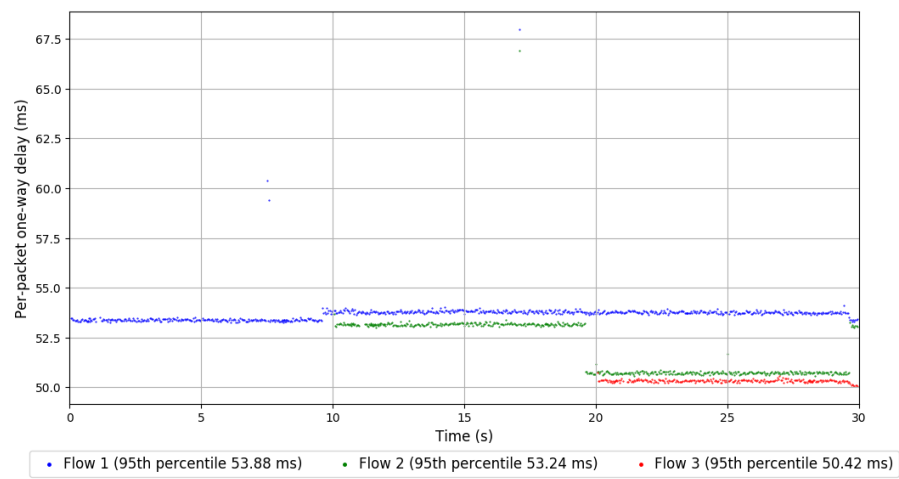
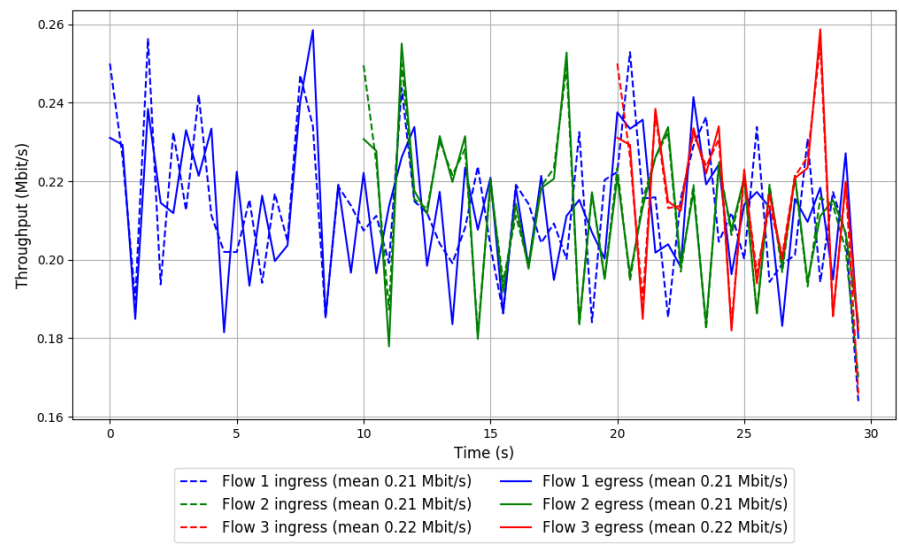
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.420 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

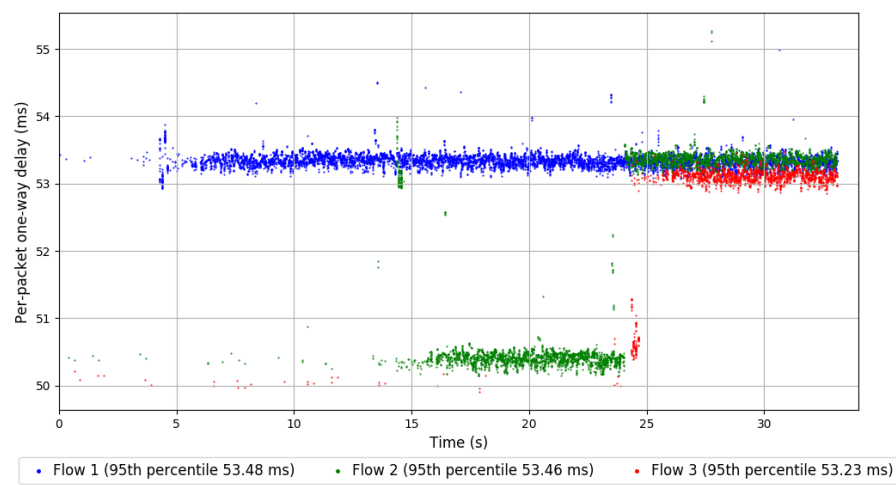
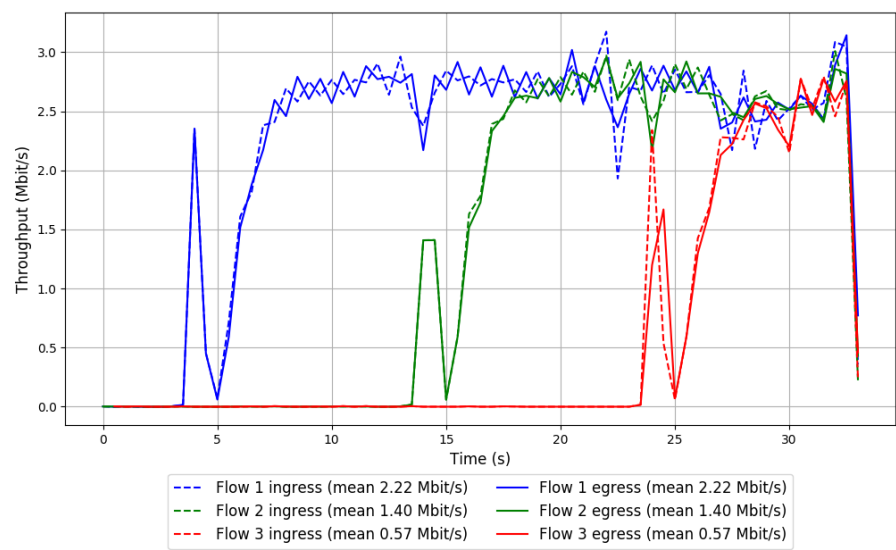


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-17 01:37:43
End at: 2017-11-17 01:38:13

# Below is generated by plot.py at 2017-11-17 05:15:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.16 Mbit/s
95th percentile per-packet one-way delay: 53.460 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 53.475 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 53.458 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 53.231 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-17 01:49:56

End at: 2017-11-17 01:50:26

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 53.459 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 53.488 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 50.661 ms

Loss rate: 0.00%

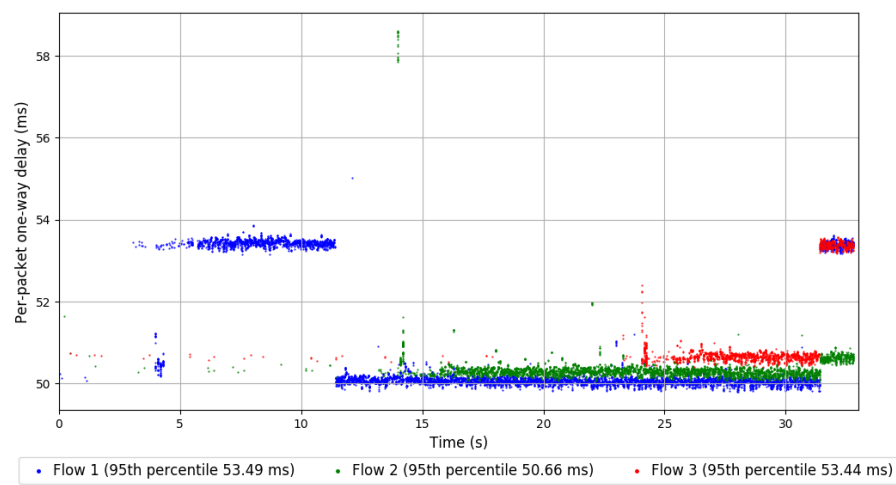
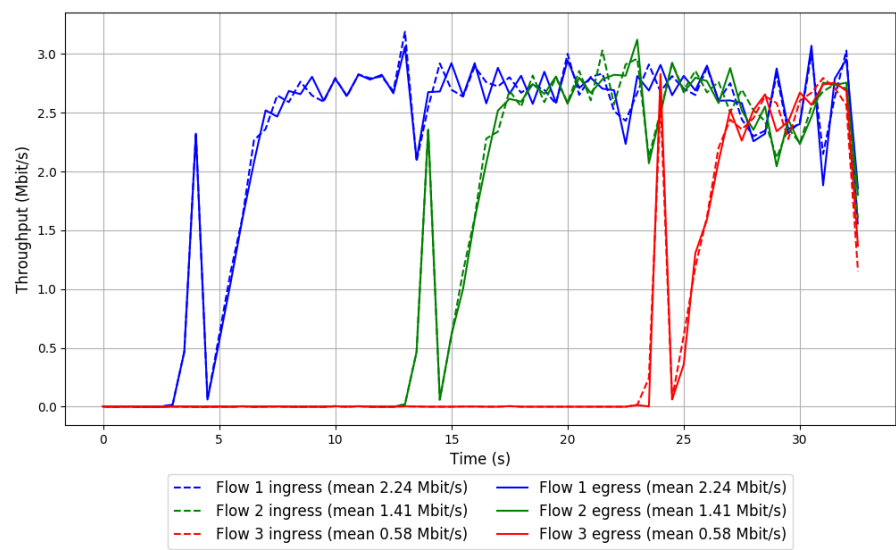
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 53.438 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-17 02:02:00

End at: 2017-11-17 02:02:30

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 53.444 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 53.405 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 53.452 ms

Loss rate: 0.00%

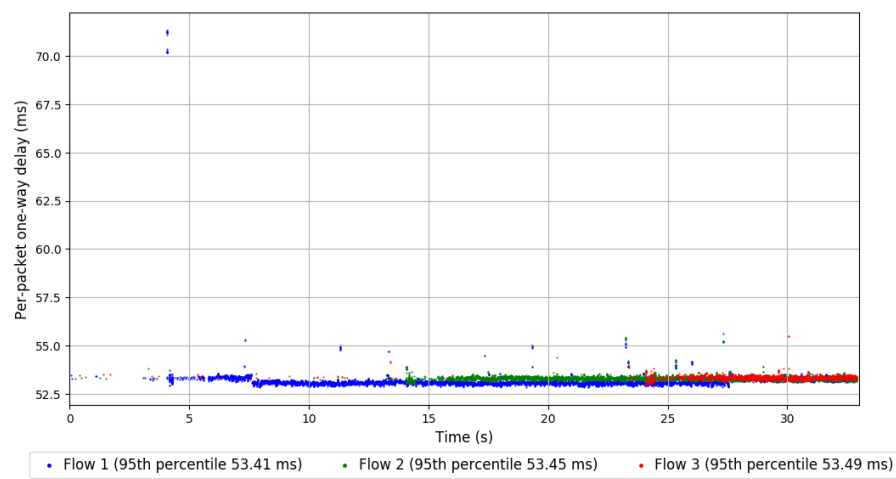
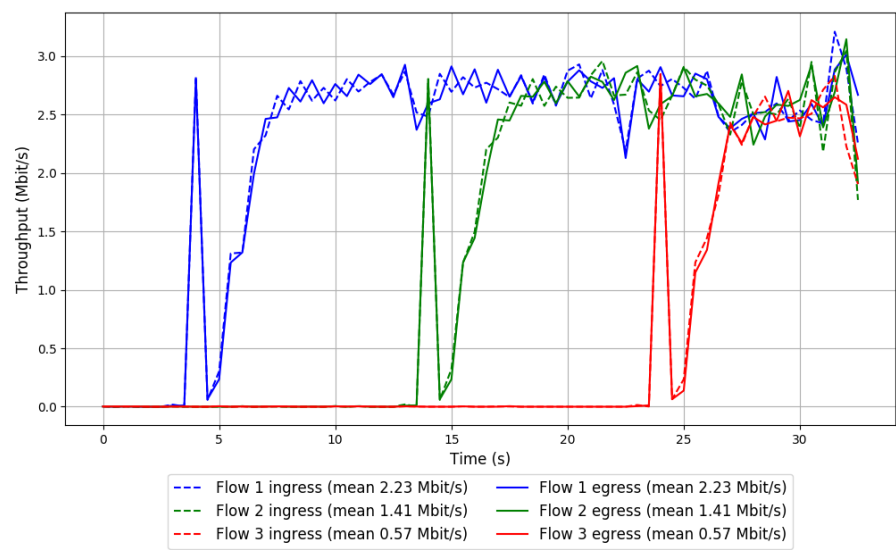
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 53.493 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-17 02:13:54

End at: 2017-11-17 02:14:24

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 53.349 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 53.379 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 50.489 ms

Loss rate: 0.00%

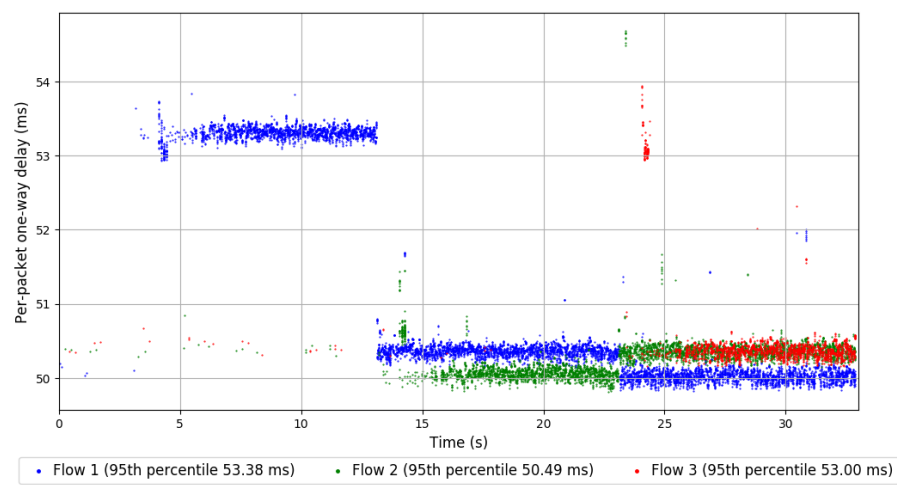
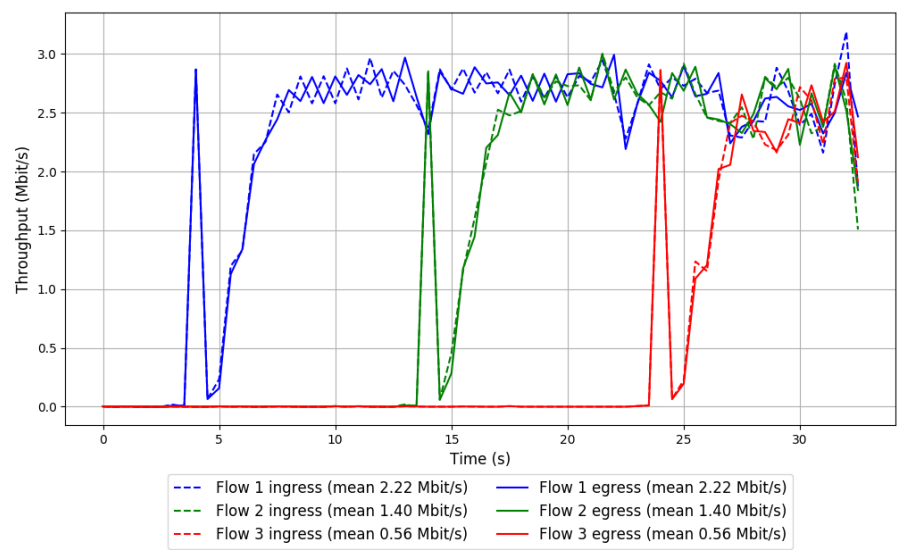
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 53.003 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-17 02:25:59

End at: 2017-11-17 02:26:29

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.18 Mbit/s

95th percentile per-packet one-way delay: 53.533 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 53.551 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 53.497 ms

Loss rate: 0.00%

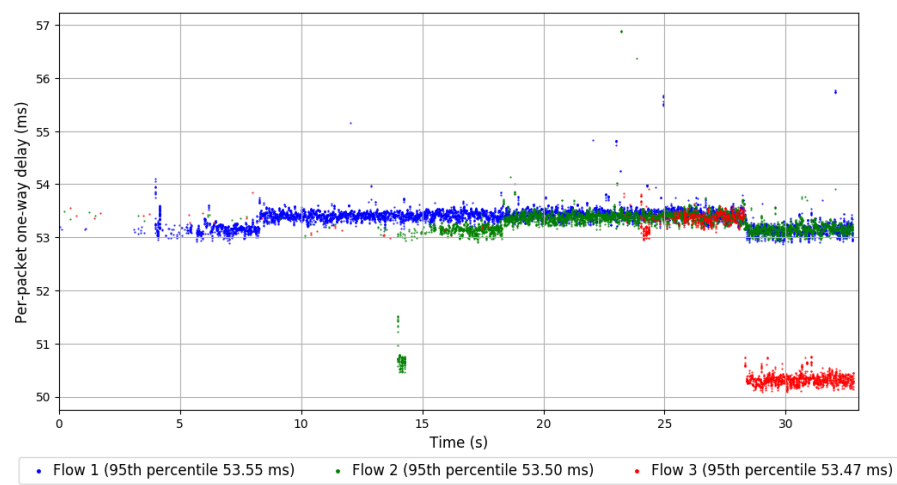
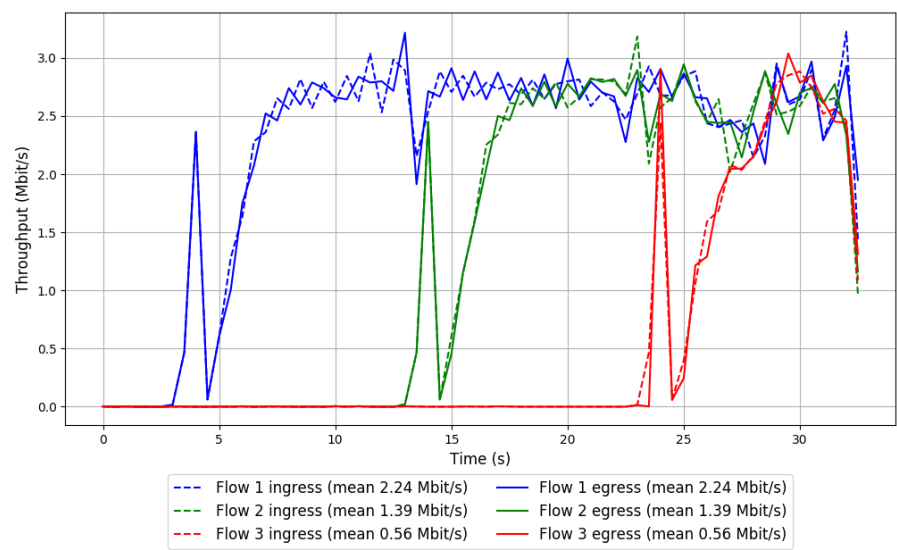
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 53.471 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-17 02:37:40

End at: 2017-11-17 02:38:10

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 53.511 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 53.511 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 53.538 ms

Loss rate: 0.00%

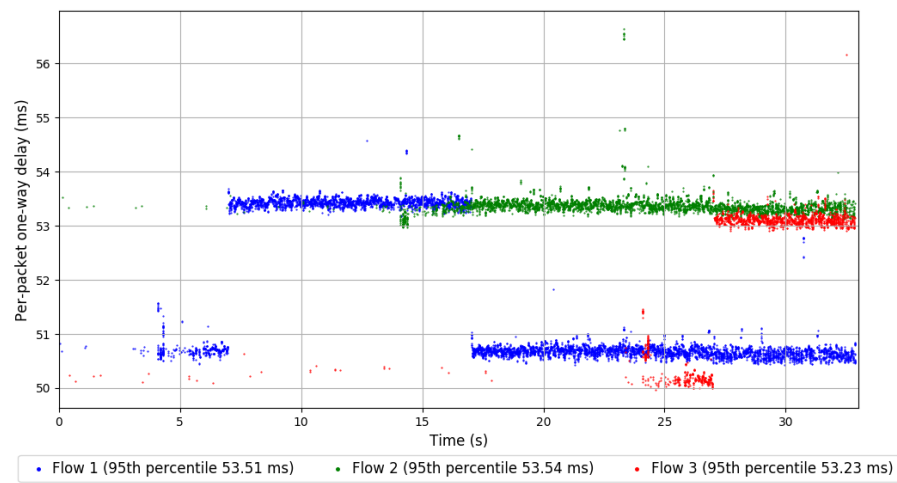
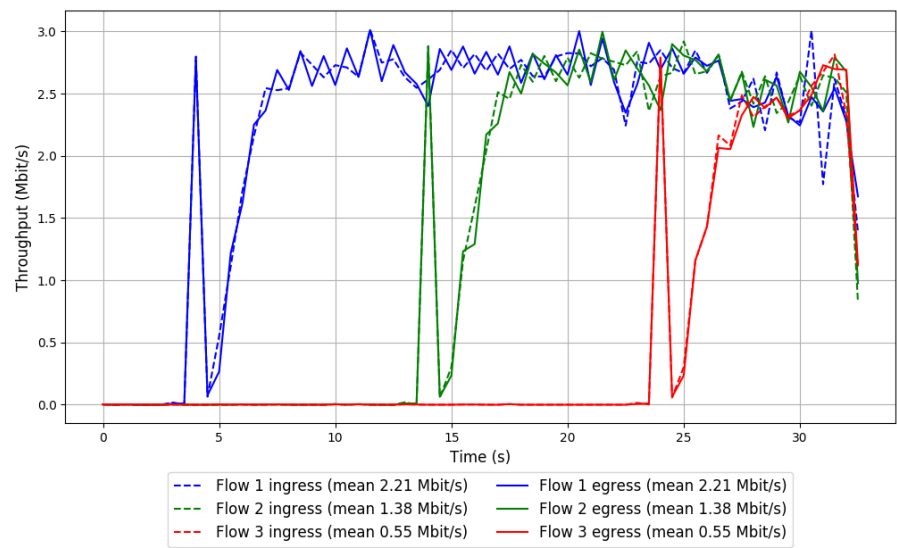
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 53.232 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-17 02:49:43

End at: 2017-11-17 02:50:13

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.54 Mbit/s

95th percentile per-packet one-way delay: 53.157 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 53.184 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 50.776 ms

Loss rate: 0.00%

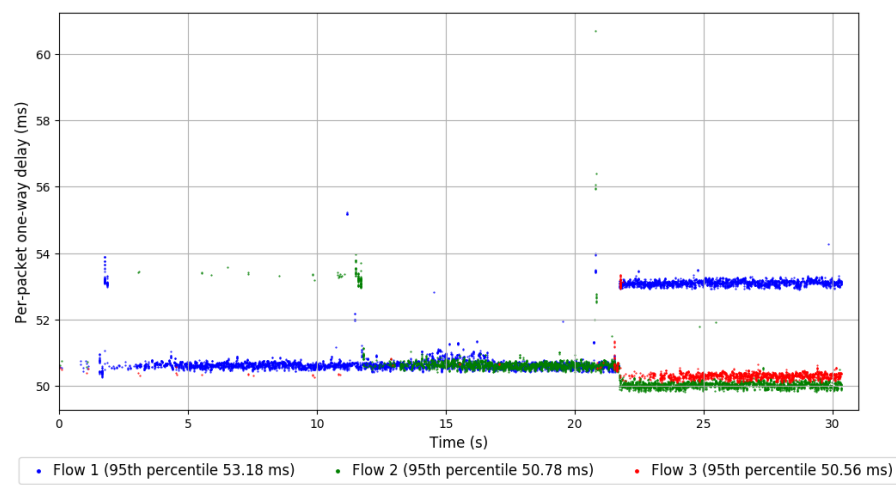
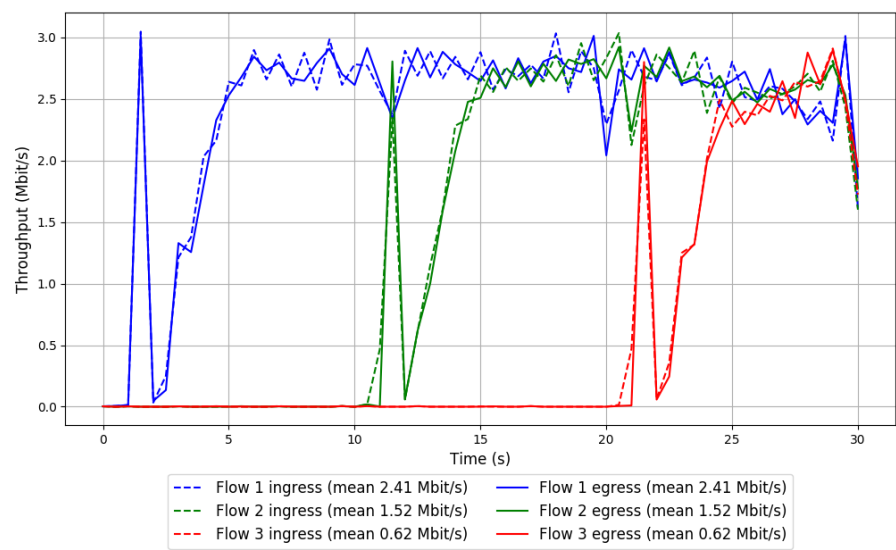
-- Flow 3:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 50.557 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-17 03:01:54

End at: 2017-11-17 03:02:24

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.47 Mbit/s

95th percentile per-packet one-way delay: 53.767 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 50.459 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.47 Mbit/s

95th percentile per-packet one-way delay: 53.206 ms

Loss rate: 0.00%

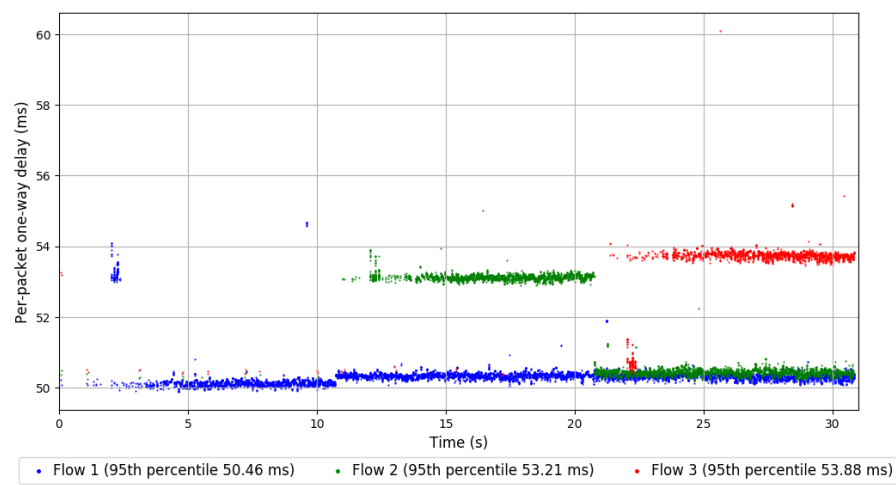
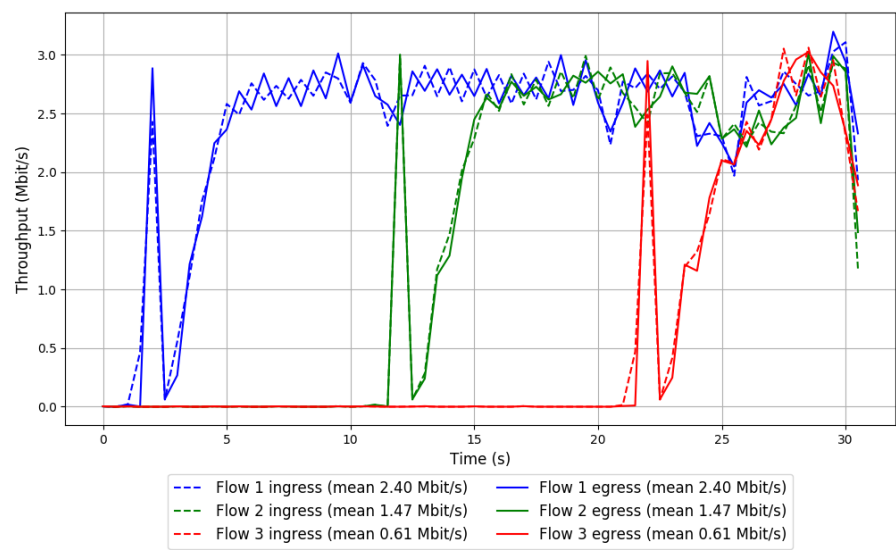
-- Flow 3:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 53.881 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-17 03:13:49

End at: 2017-11-17 03:14:19

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 53.740 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 53.771 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 50.534 ms

Loss rate: 0.00%

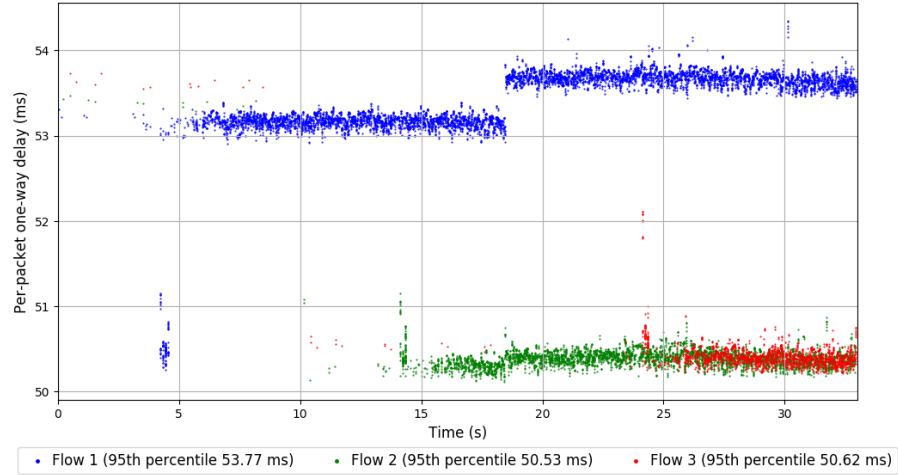
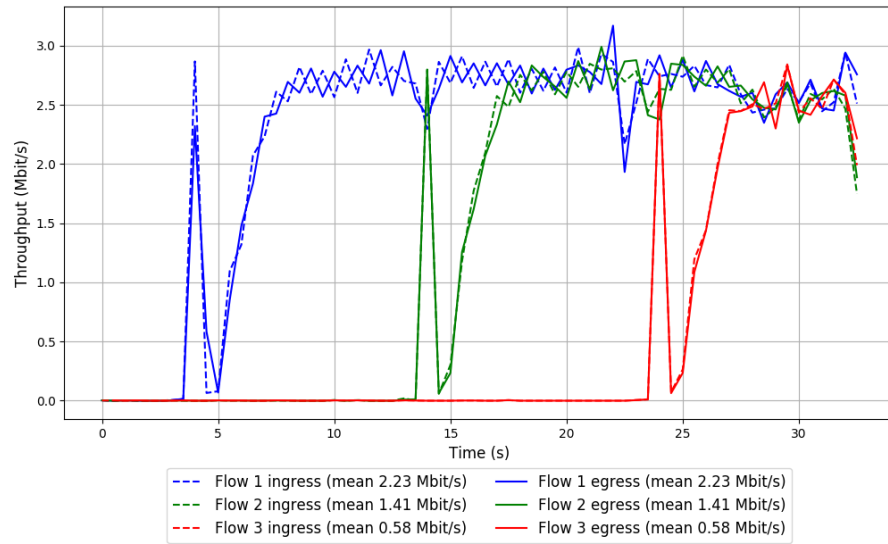
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 50.624 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-17 03:26:12

End at: 2017-11-17 03:26:42

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 50.696 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 50.697 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 50.709 ms

Loss rate: 0.00%

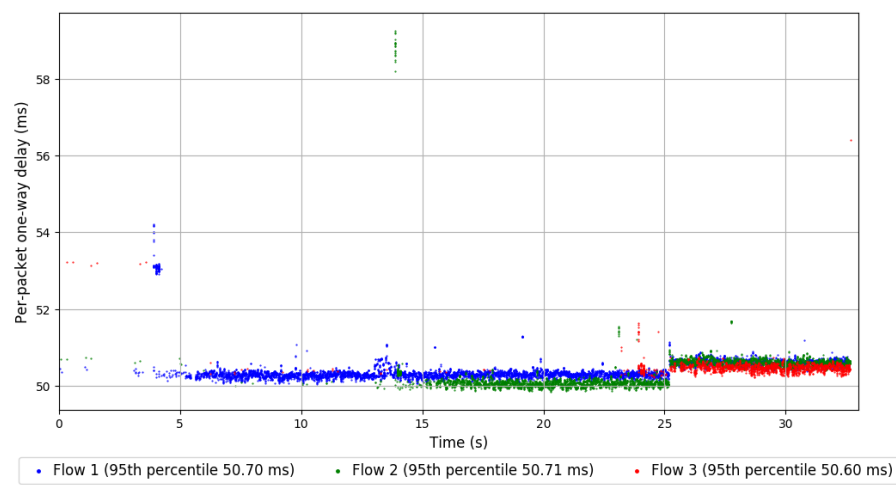
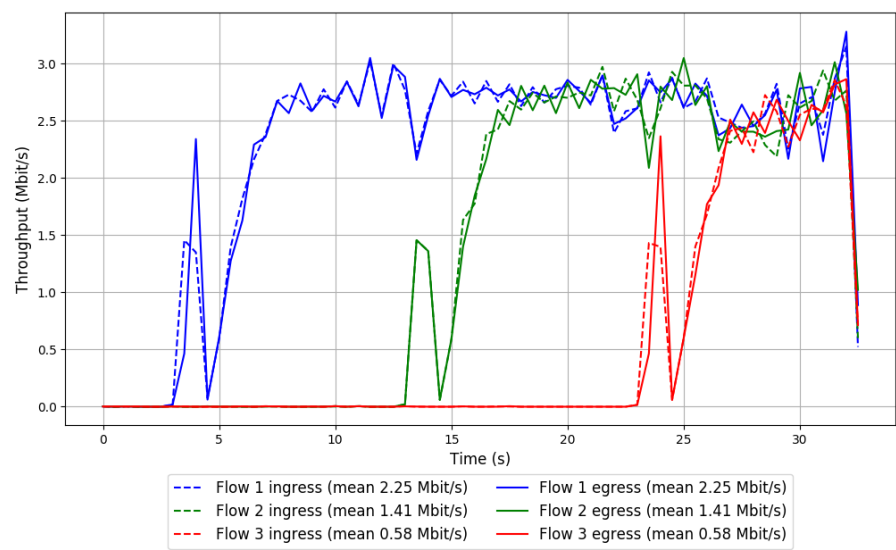
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 50.597 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

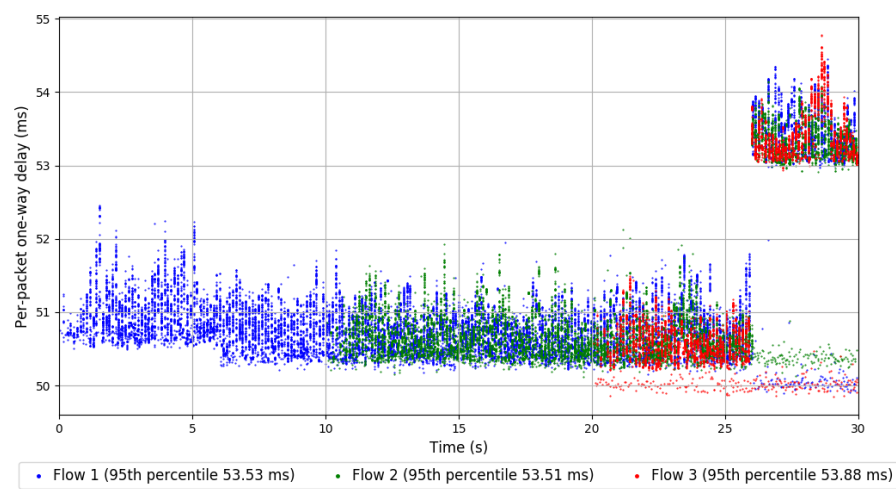
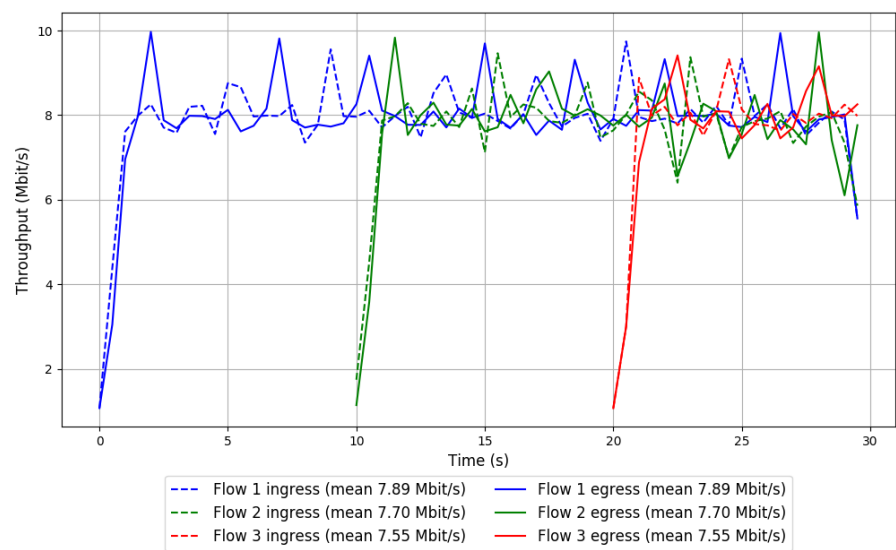


```
Run 1: Statistics of Sprout

Start at: 2017-11-17 01:42:48
End at: 2017-11-17 01:43:18

# Below is generated by plot.py at 2017-11-17 05:15:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.49 Mbit/s
95th percentile per-packet one-way delay: 53.589 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.89 Mbit/s
95th percentile per-packet one-way delay: 53.534 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.70 Mbit/s
95th percentile per-packet one-way delay: 53.508 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.55 Mbit/s
95th percentile per-packet one-way delay: 53.881 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-17 01:54:51

End at: 2017-11-17 01:55:21

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.43 Mbit/s

95th percentile per-packet one-way delay: 53.928 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 53.891 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 53.956 ms

Loss rate: 0.00%

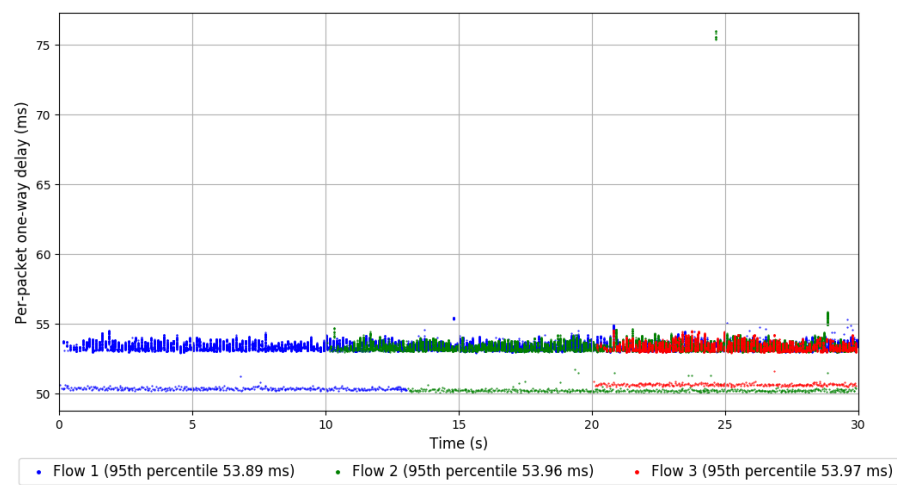
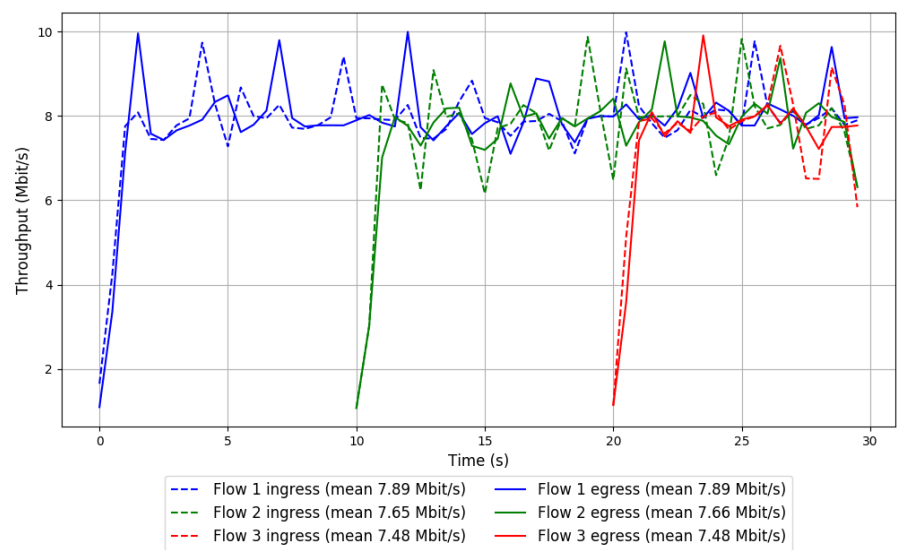
-- Flow 3:

Average throughput: 7.48 Mbit/s

95th percentile per-packet one-way delay: 53.973 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-17 02:06:44

End at: 2017-11-17 02:07:14

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.10 Mbit/s

95th percentile per-packet one-way delay: 53.822 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 53.703 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 7.39 Mbit/s

95th percentile per-packet one-way delay: 53.902 ms

Loss rate: 0.00%

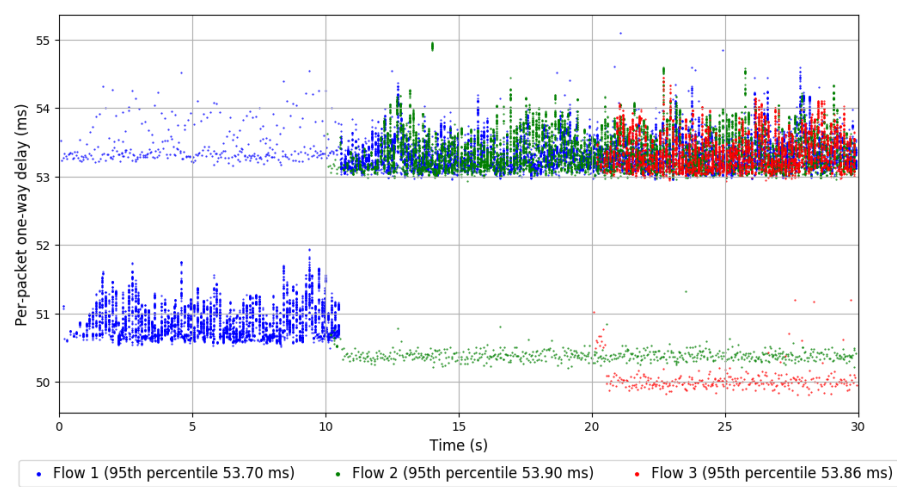
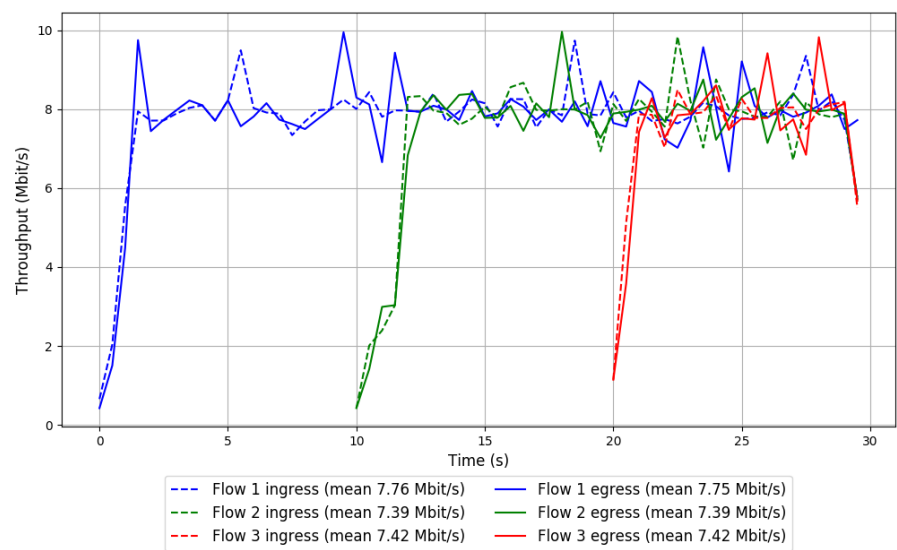
-- Flow 3:

Average throughput: 7.42 Mbit/s

95th percentile per-packet one-way delay: 53.858 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-17 02:18:46

End at: 2017-11-17 02:19:16

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.23 Mbit/s

95th percentile per-packet one-way delay: 53.857 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 53.850 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 53.797 ms

Loss rate: 0.53%

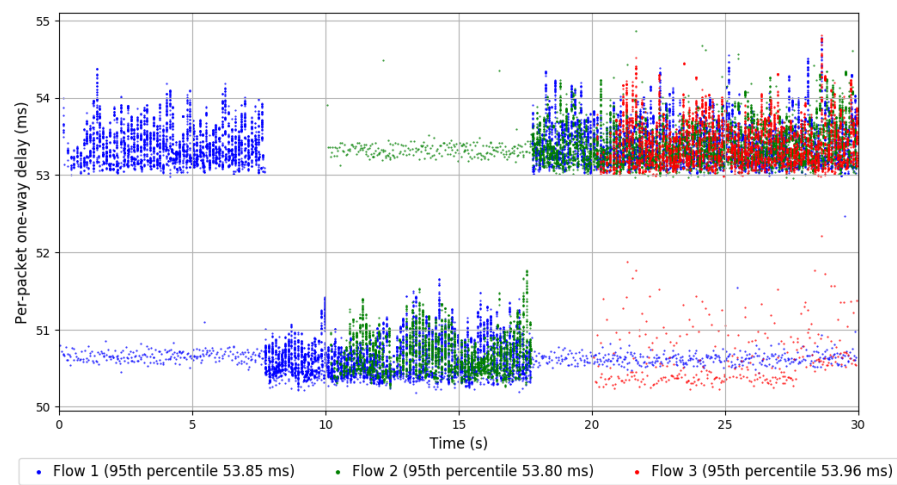
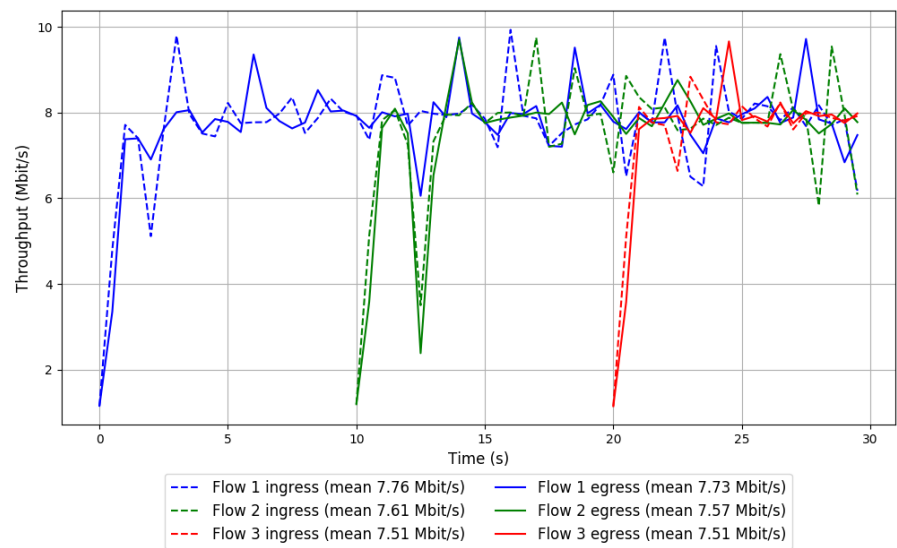
-- Flow 3:

Average throughput: 7.51 Mbit/s

95th percentile per-packet one-way delay: 53.960 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-17 02:30:38

End at: 2017-11-17 02:31:08

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.12 Mbit/s

95th percentile per-packet one-way delay: 53.974 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 53.902 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 54.012 ms

Loss rate: 0.12%

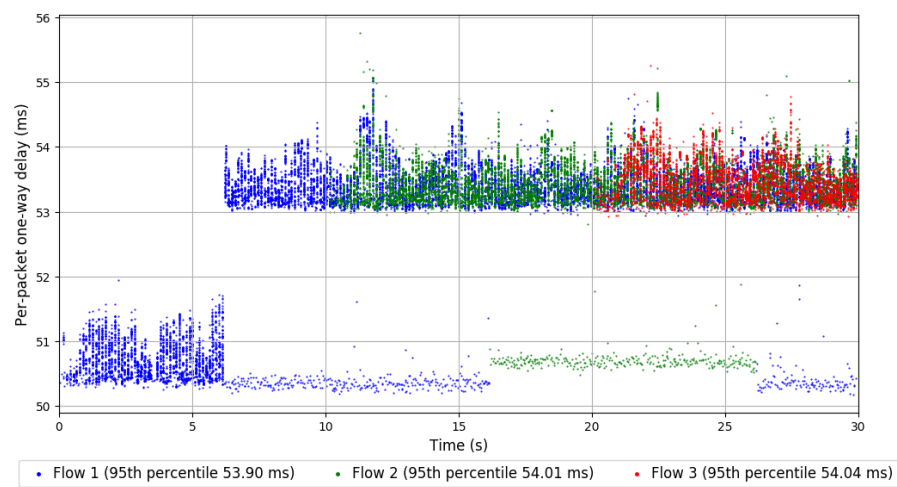
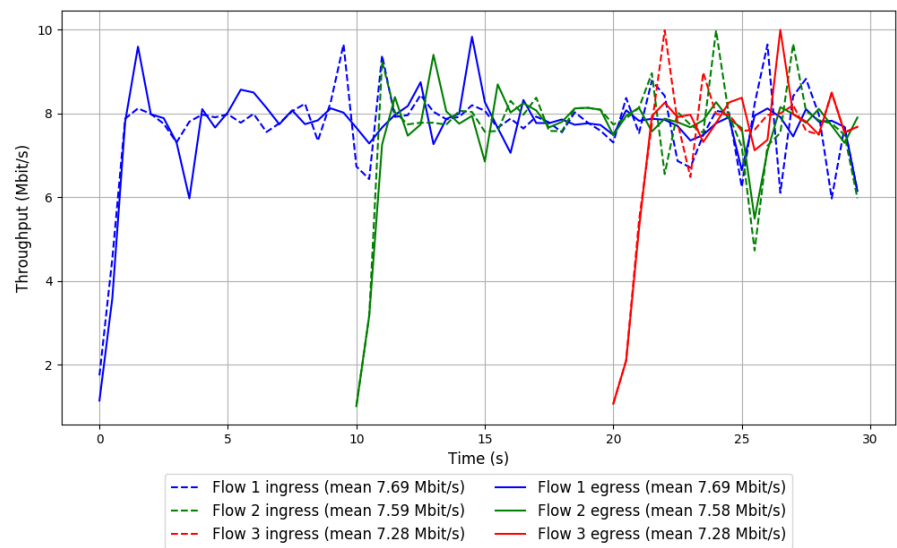
-- Flow 3:

Average throughput: 7.28 Mbit/s

95th percentile per-packet one-way delay: 54.042 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-17 02:42:37

End at: 2017-11-17 02:43:07

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.47 Mbit/s

95th percentile per-packet one-way delay: 53.812 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 53.793 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 7.55 Mbit/s

95th percentile per-packet one-way delay: 53.785 ms

Loss rate: 0.00%

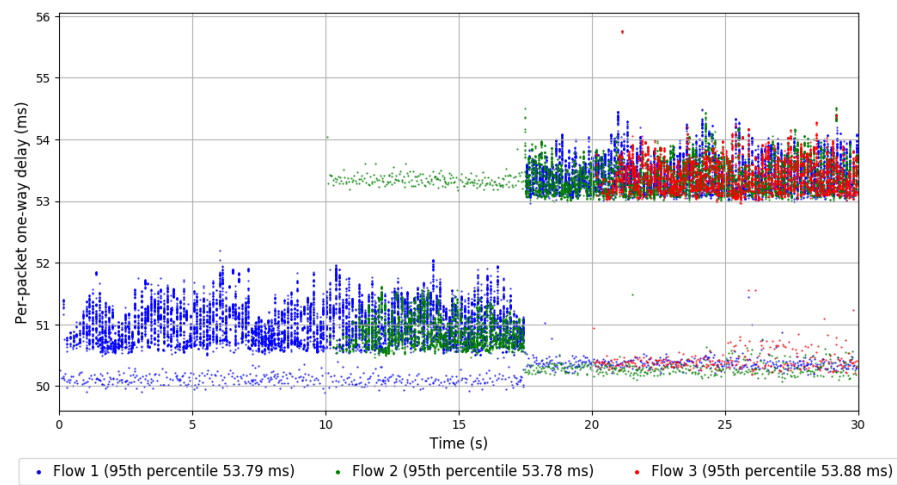
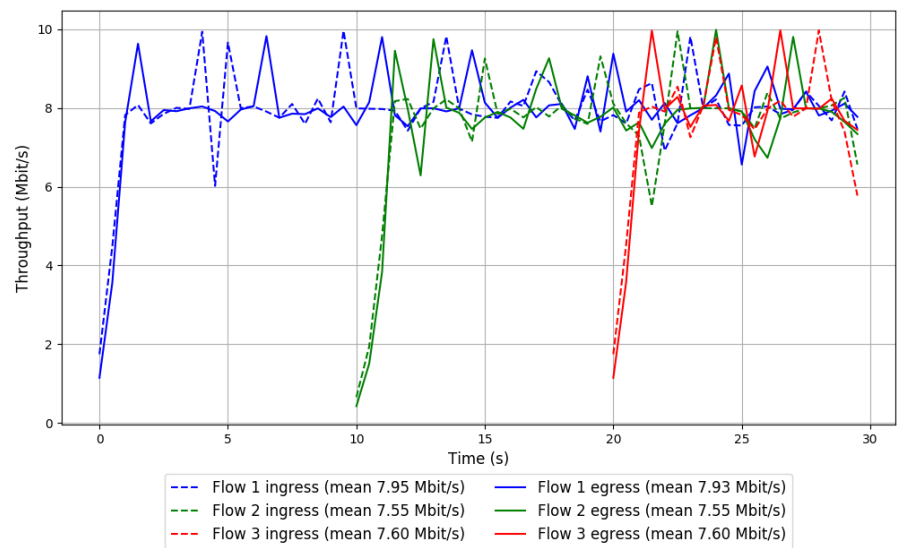
-- Flow 3:

Average throughput: 7.60 Mbit/s

95th percentile per-packet one-way delay: 53.876 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-17 02:54:47

End at: 2017-11-17 02:55:17

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.32 Mbit/s

95th percentile per-packet one-way delay: 53.764 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 53.820 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 53.783 ms

Loss rate: 0.08%

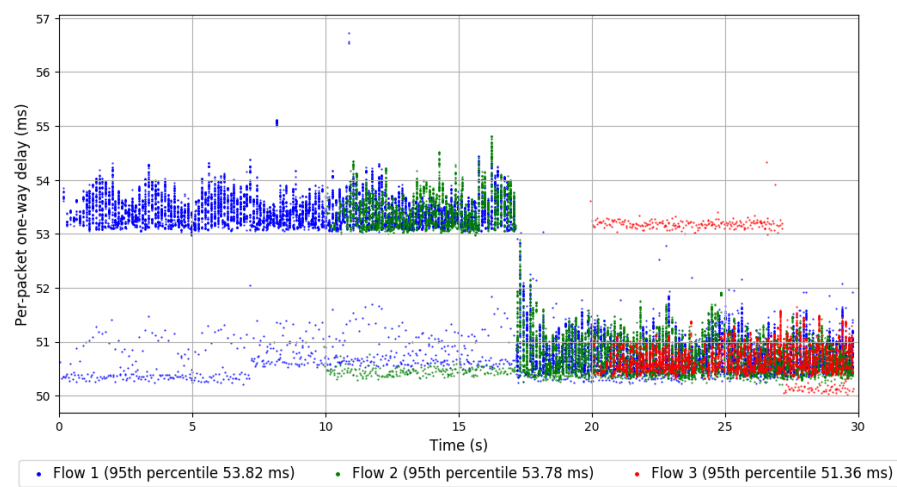
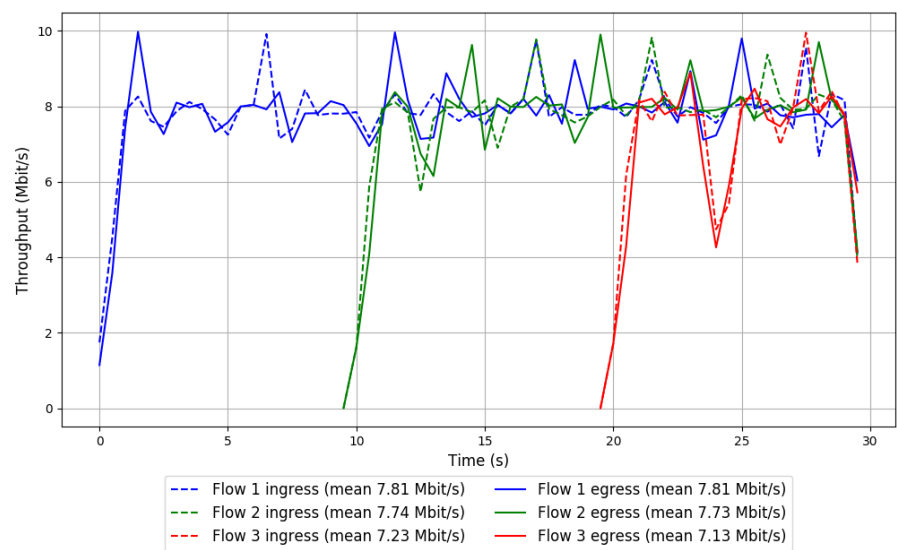
-- Flow 3:

Average throughput: 7.13 Mbit/s

95th percentile per-packet one-way delay: 51.361 ms

Loss rate: 1.38%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-17 03:06:41

End at: 2017-11-17 03:07:11

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.27 Mbit/s

95th percentile per-packet one-way delay: 53.654 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 53.588 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 53.645 ms

Loss rate: 0.04%

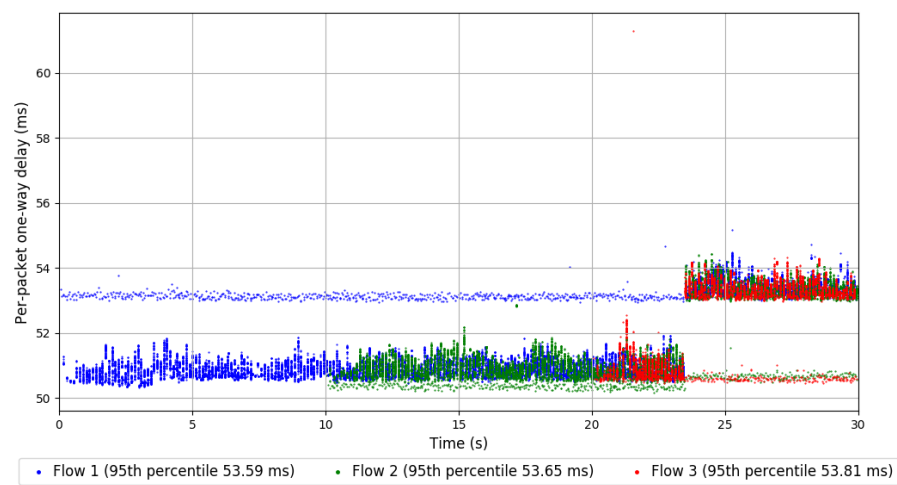
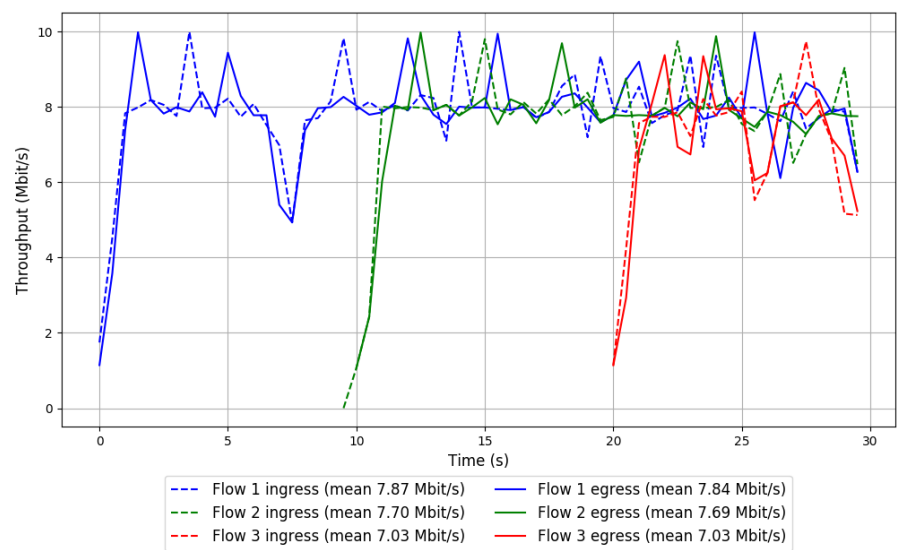
-- Flow 3:

Average throughput: 7.03 Mbit/s

95th percentile per-packet one-way delay: 53.806 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-17 03:19:03

End at: 2017-11-17 03:19:33

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.40 Mbit/s

95th percentile per-packet one-way delay: 54.291 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 54.318 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.327 ms

Loss rate: 0.01%

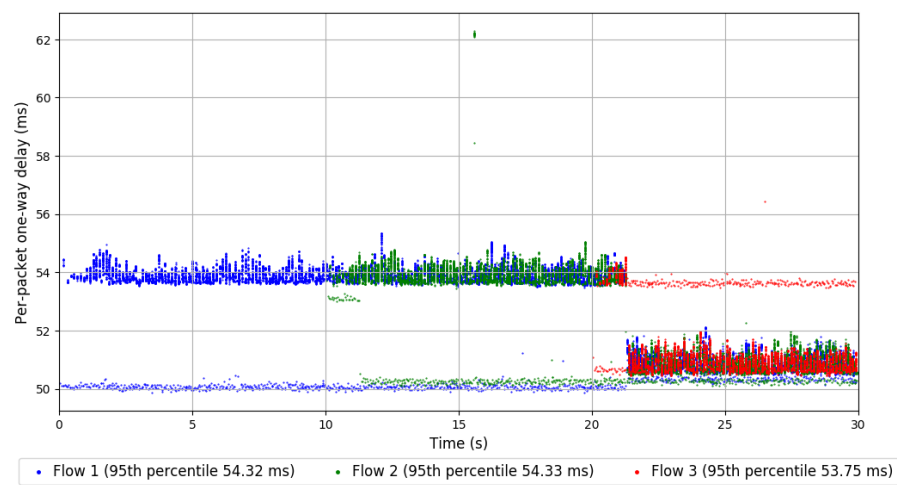
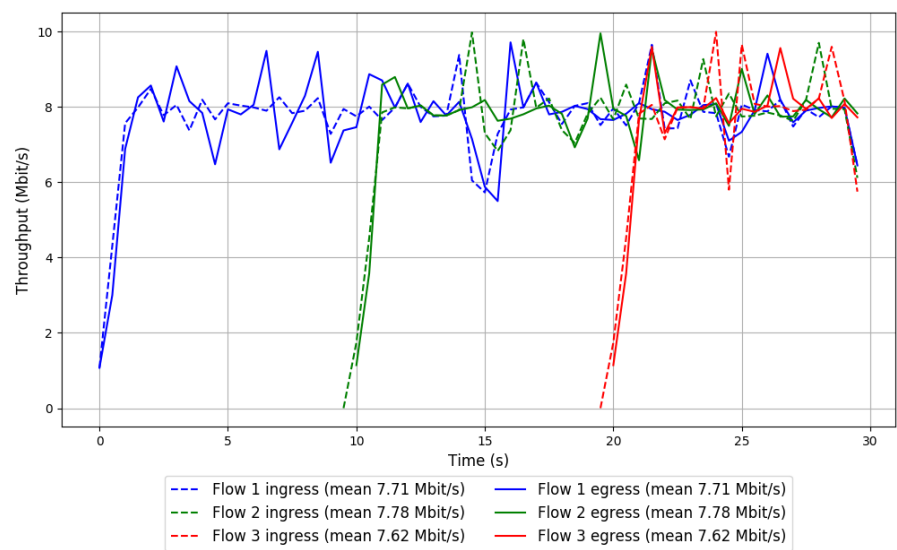
-- Flow 3:

Average throughput: 7.62 Mbit/s

95th percentile per-packet one-way delay: 53.748 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-17 03:31:08

End at: 2017-11-17 03:31:38

Below is generated by plot.py at 2017-11-17 05:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.97 Mbit/s

95th percentile per-packet one-way delay: 53.730 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 53.667 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 7.34 Mbit/s

95th percentile per-packet one-way delay: 53.715 ms

Loss rate: 0.88%

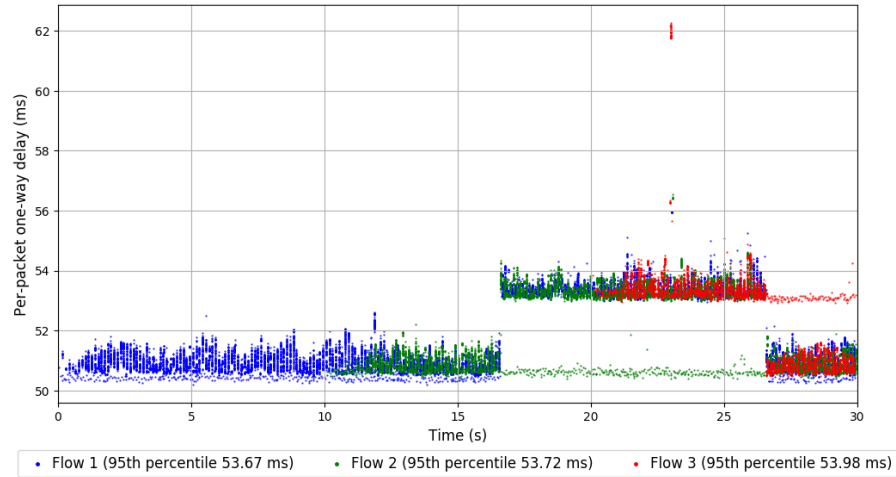
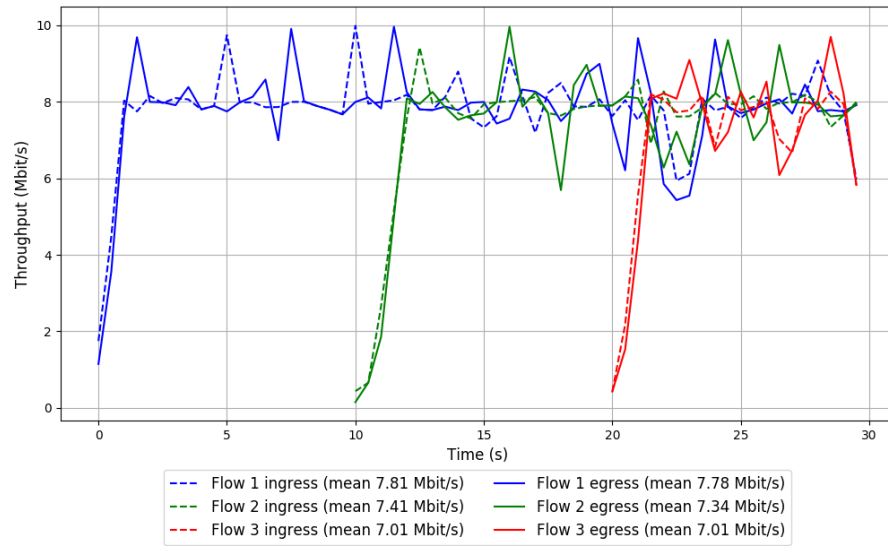
-- Flow 3:

Average throughput: 7.01 Mbit/s

95th percentile per-packet one-way delay: 53.977 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

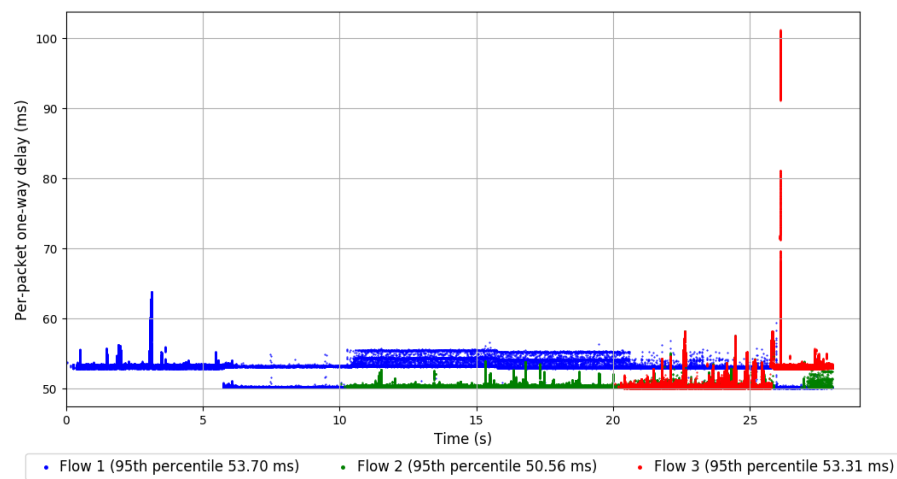
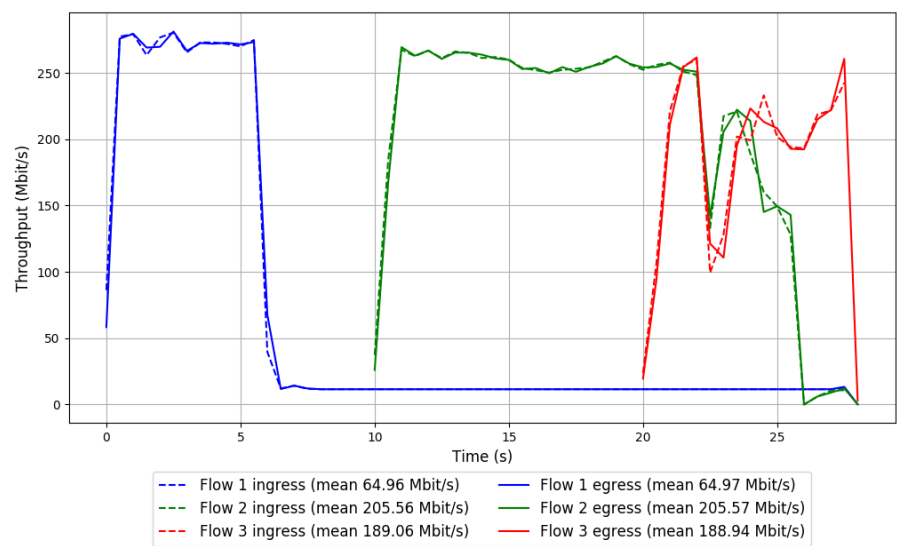


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-17 01:39:57
End at: 2017-11-17 01:40:27

# Below is generated by plot.py at 2017-11-17 05:19:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 250.60 Mbit/s
95th percentile per-packet one-way delay: 53.268 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 64.97 Mbit/s
95th percentile per-packet one-way delay: 53.700 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 205.57 Mbit/s
95th percentile per-packet one-way delay: 50.558 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 188.94 Mbit/s
95th percentile per-packet one-way delay: 53.307 ms
Loss rate: 0.08%
```


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

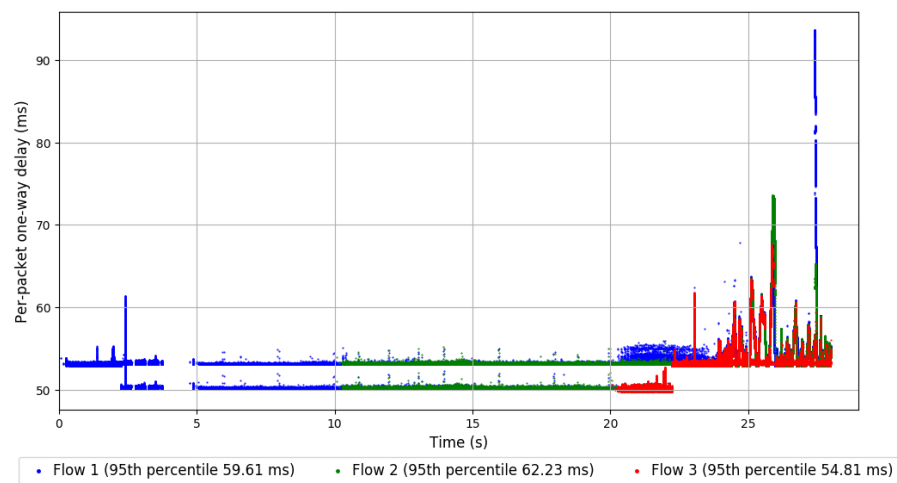
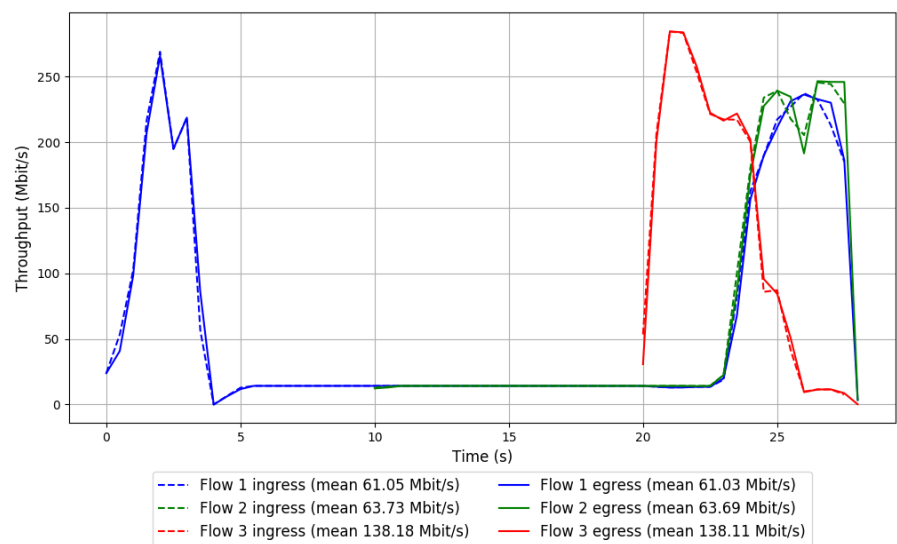


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-17 01:52:10
End at: 2017-11-17 01:52:40

# Below is generated by plot.py at 2017-11-17 05:19:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 141.11 Mbit/s
95th percentile per-packet one-way delay: 59.481 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 61.03 Mbit/s
95th percentile per-packet one-way delay: 59.607 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 63.69 Mbit/s
95th percentile per-packet one-way delay: 62.232 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 138.11 Mbit/s
95th percentile per-packet one-way delay: 54.806 ms
Loss rate: 0.00%
```

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

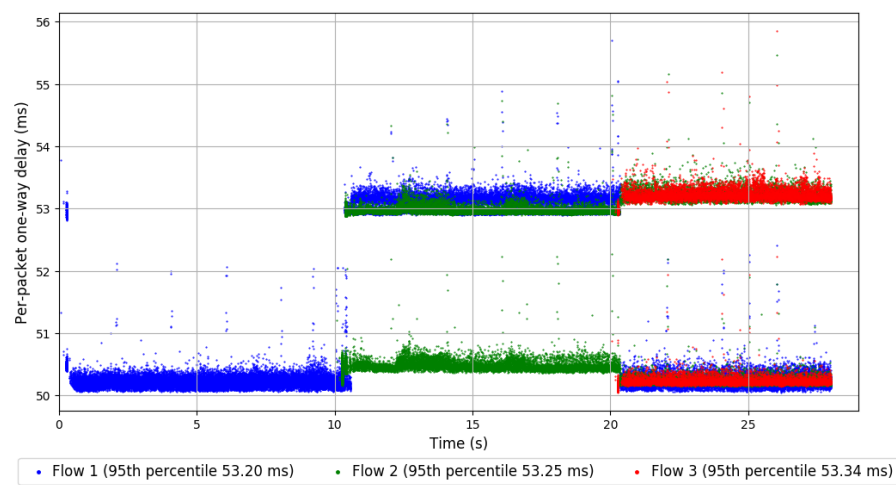
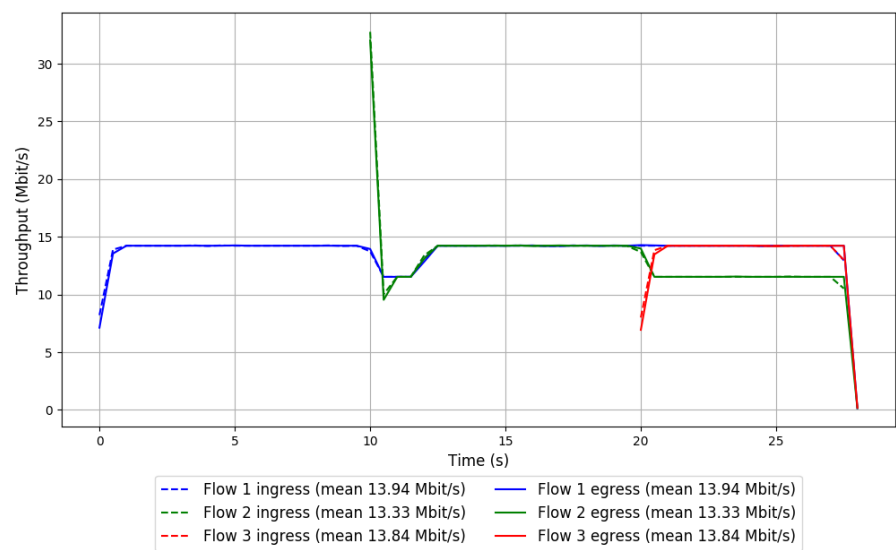


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-11-17 02:04:12
End at: 2017-11-17 02:04:42

# Below is generated by plot.py at 2017-11-17 05:19:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 26.43 Mbit/s
95th percentile per-packet one-way delay: 53.250 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.94 Mbit/s
95th percentile per-packet one-way delay: 53.200 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.33 Mbit/s
95th percentile per-packet one-way delay: 53.252 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 13.84 Mbit/s
95th percentile per-packet one-way delay: 53.340 ms
Loss rate: 0.00%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-17 02:16:09

End at: 2017-11-17 02:16:39

Below is generated by plot.py at 2017-11-17 05:19:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.10 Mbit/s

95th percentile per-packet one-way delay: 53.312 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 78.16 Mbit/s

95th percentile per-packet one-way delay: 53.341 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.63 Mbit/s

95th percentile per-packet one-way delay: 53.286 ms

Loss rate: 0.00%

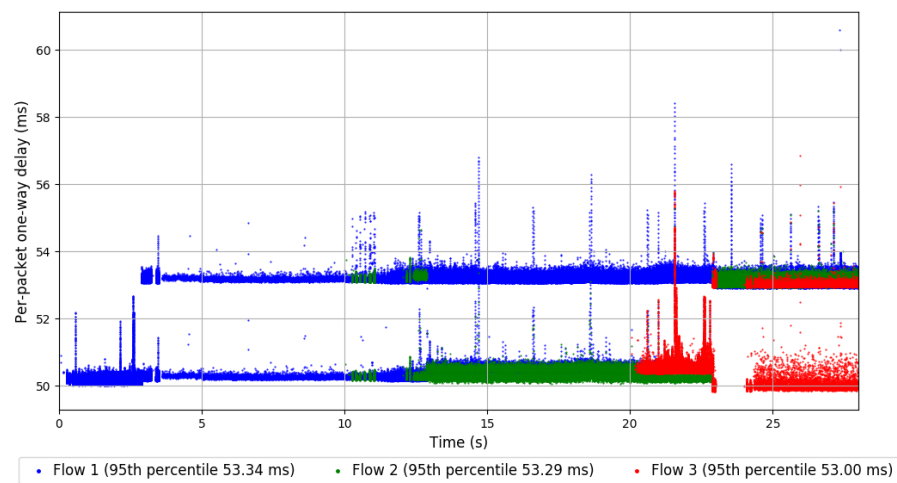
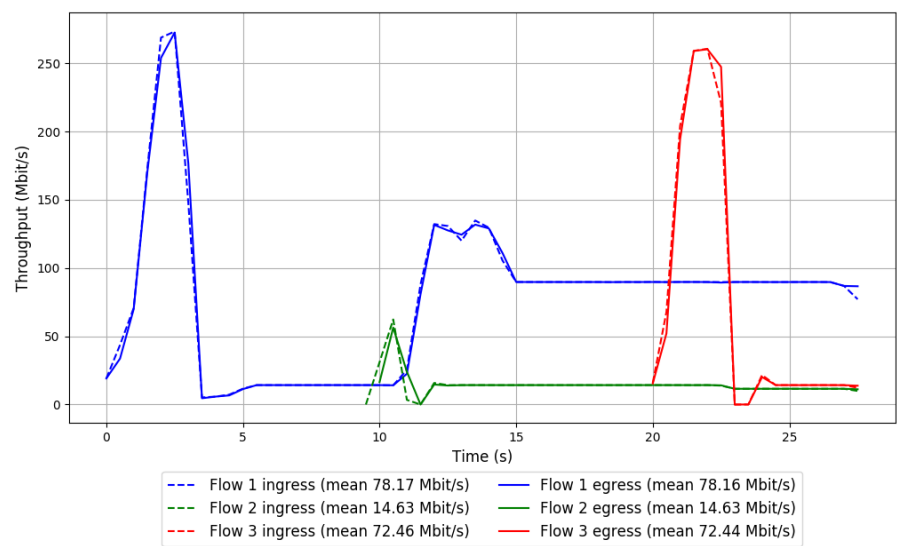
-- Flow 3:

Average throughput: 72.44 Mbit/s

95th percentile per-packet one-way delay: 53.001 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-17 02:28:10

End at: 2017-11-17 02:28:41

Below is generated by plot.py at 2017-11-17 05:19:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.81 Mbit/s

95th percentile per-packet one-way delay: 53.290 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 13.85 Mbit/s

95th percentile per-packet one-way delay: 53.052 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 14.05 Mbit/s

95th percentile per-packet one-way delay: 53.385 ms

Loss rate: 0.01%

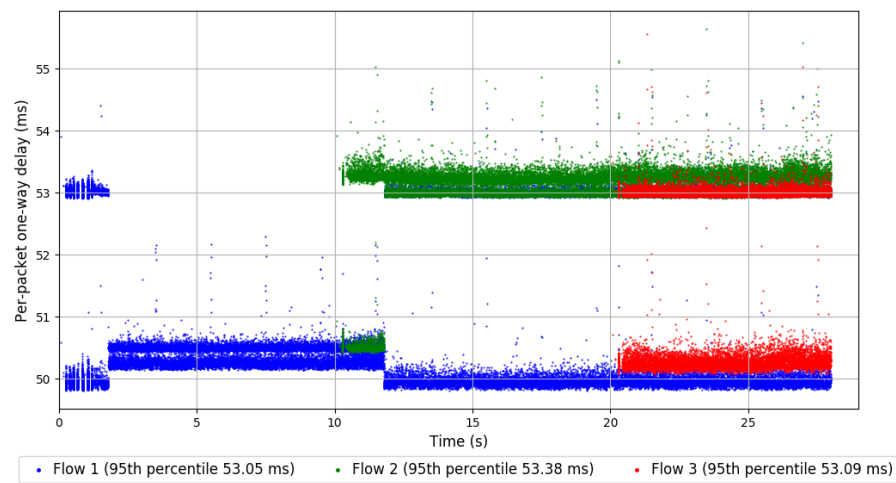
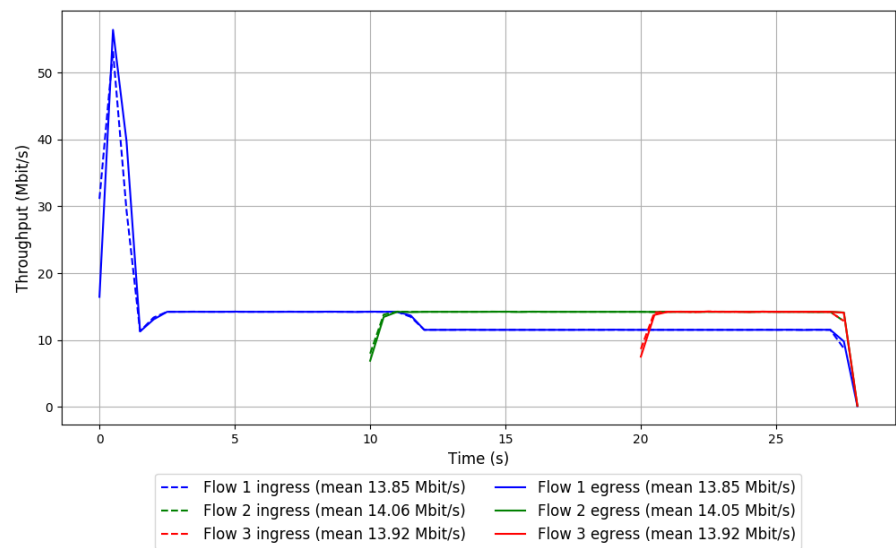
-- Flow 3:

Average throughput: 13.92 Mbit/s

95th percentile per-packet one-way delay: 53.091 ms

Loss rate: 0.02%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-17 02:39:51

End at: 2017-11-17 02:40:21

Below is generated by plot.py at 2017-11-17 05:19:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 159.38 Mbit/s

95th percentile per-packet one-way delay: 53.114 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.99 Mbit/s

95th percentile per-packet one-way delay: 53.262 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 223.56 Mbit/s

95th percentile per-packet one-way delay: 53.085 ms

Loss rate: 0.00%

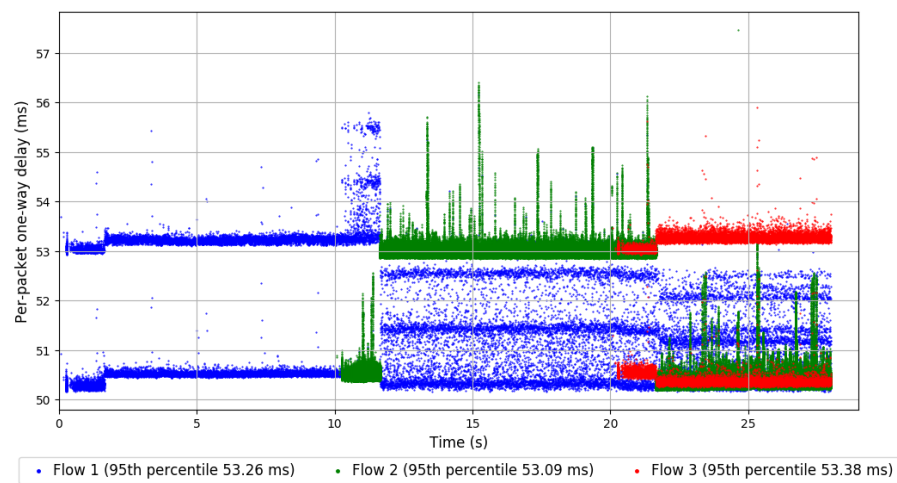
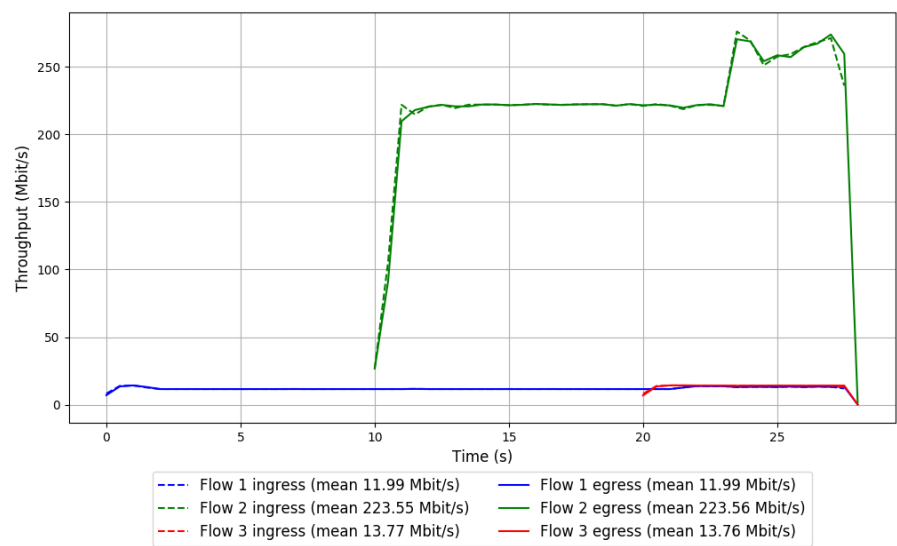
-- Flow 3:

Average throughput: 13.76 Mbit/s

95th percentile per-packet one-way delay: 53.383 ms

Loss rate: 0.00%

Run 6: Report of TaoVA-100x — Data Link



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-17 02:51:55

End at: 2017-11-17 02:52:25

Below is generated by plot.py at 2017-11-17 05:20:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 256.16 Mbit/s

95th percentile per-packet one-way delay: 54.657 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.90 Mbit/s

95th percentile per-packet one-way delay: 54.884 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 231.19 Mbit/s

95th percentile per-packet one-way delay: 53.976 ms

Loss rate: 0.00%

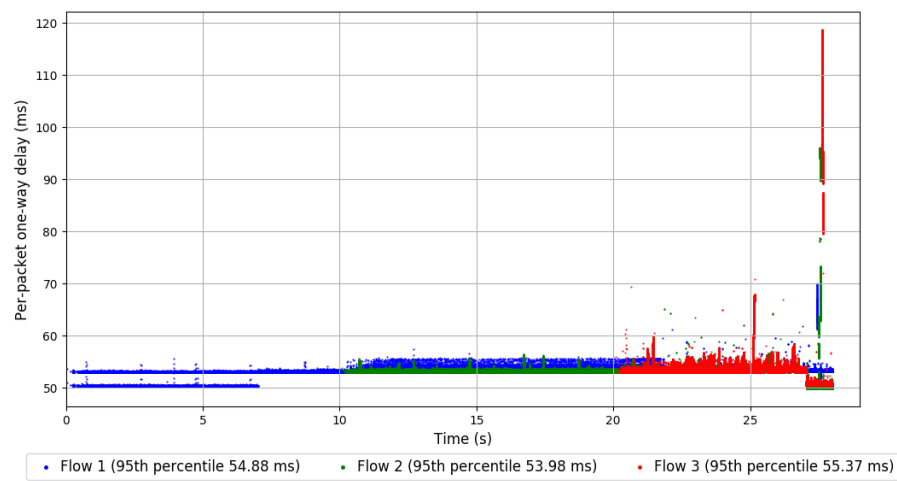
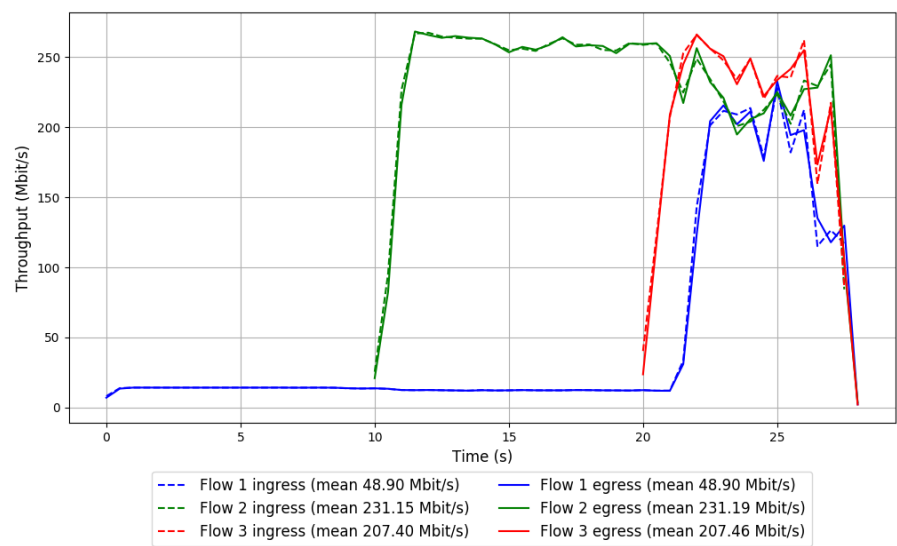
-- Flow 3:

Average throughput: 207.46 Mbit/s

95th percentile per-packet one-way delay: 55.371 ms

Loss rate: 0.00%

Run 7: Report of TaoVA-100x — Data Link



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-17 03:04:08

End at: 2017-11-17 03:04:38

Below is generated by plot.py at 2017-11-17 05:21:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 295.05 Mbit/s

95th percentile per-packet one-way delay: 53.641 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 247.60 Mbit/s

95th percentile per-packet one-way delay: 53.651 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 67.94 Mbit/s

95th percentile per-packet one-way delay: 53.255 ms

Loss rate: 0.08%

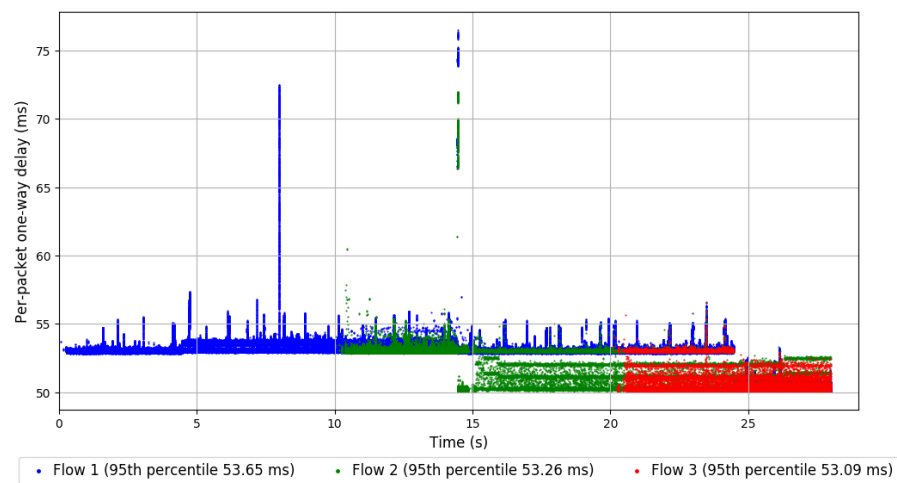
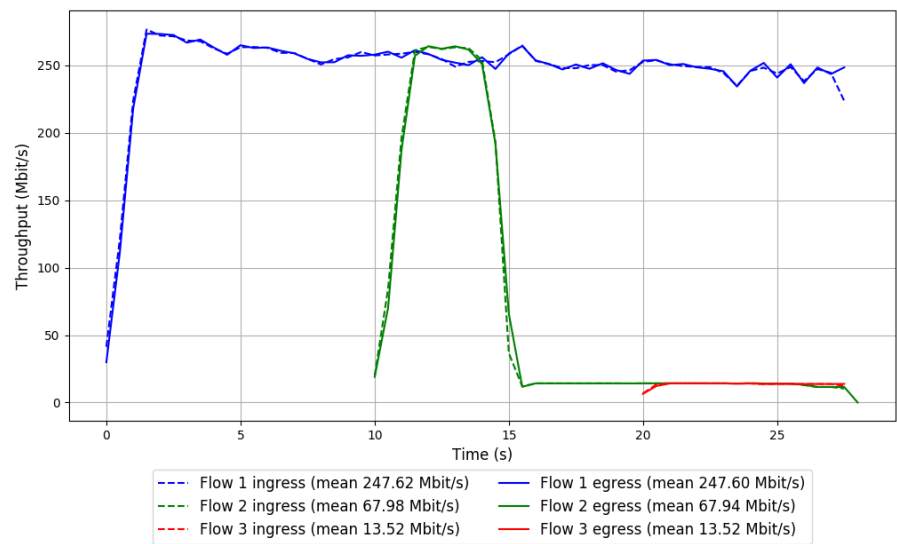
-- Flow 3:

Average throughput: 13.52 Mbit/s

95th percentile per-packet one-way delay: 53.090 ms

Loss rate: 0.00%

Run 8: Report of TaoVA-100x — Data Link



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-17 03:15:55

End at: 2017-11-17 03:16:25

Below is generated by plot.py at 2017-11-17 05:23:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 279.59 Mbit/s

95th percentile per-packet one-way delay: 53.496 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 69.60 Mbit/s

95th percentile per-packet one-way delay: 53.483 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 240.84 Mbit/s

95th percentile per-packet one-way delay: 53.545 ms

Loss rate: 0.01%

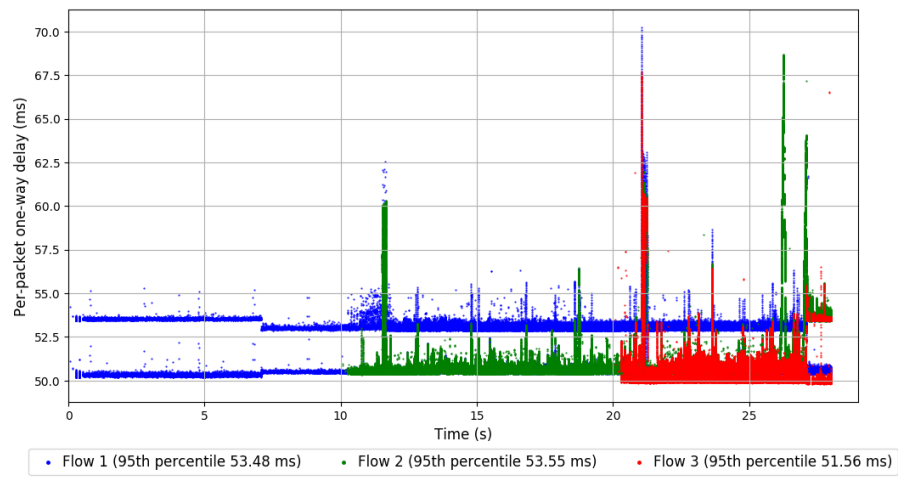
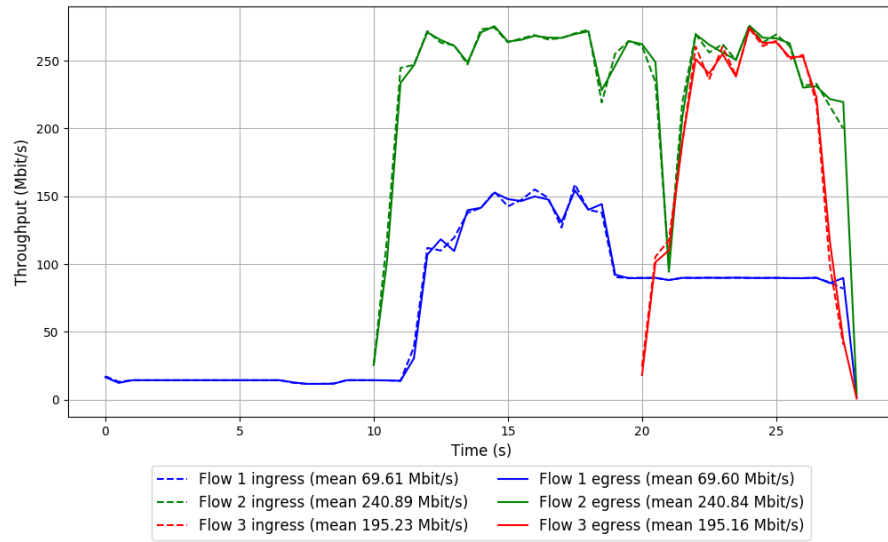
-- Flow 3:

Average throughput: 195.16 Mbit/s

95th percentile per-packet one-way delay: 51.562 ms

Loss rate: 0.00%

Run 9: Report of TaoVA-100x — Data Link

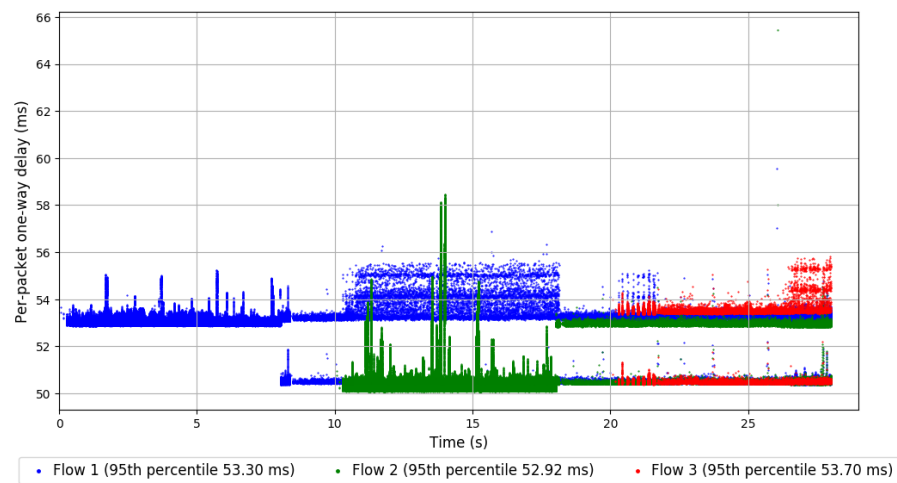
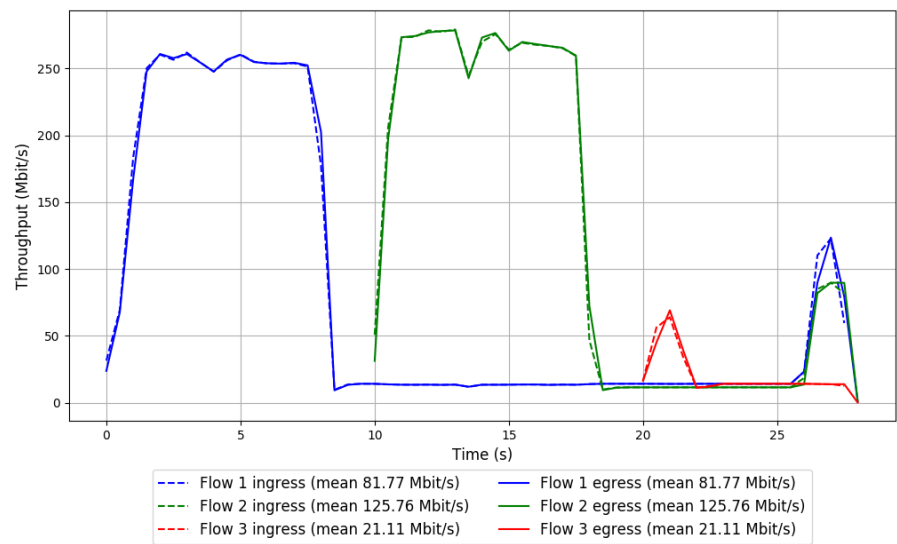


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-17 03:28:24
End at: 2017-11-17 03:28:54

# Below is generated by plot.py at 2017-11-17 05:23:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 168.48 Mbit/s
95th percentile per-packet one-way delay: 53.300 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 81.77 Mbit/s
95th percentile per-packet one-way delay: 53.303 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 125.76 Mbit/s
95th percentile per-packet one-way delay: 52.924 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 21.11 Mbit/s
95th percentile per-packet one-way delay: 53.697 ms
Loss rate: 0.00%
```

Run 10: Report of TaoVA-100x — Data Link



Run 1: Statistics of TCP Vegas

Start at: 2017-11-17 01:45:37

End at: 2017-11-17 01:46:07

Below is generated by plot.py at 2017-11-17 05:23:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 101.25 Mbit/s

95th percentile per-packet one-way delay: 52.982 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 20.59 Mbit/s

95th percentile per-packet one-way delay: 53.234 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 83.17 Mbit/s

95th percentile per-packet one-way delay: 51.656 ms

Loss rate: 0.01%

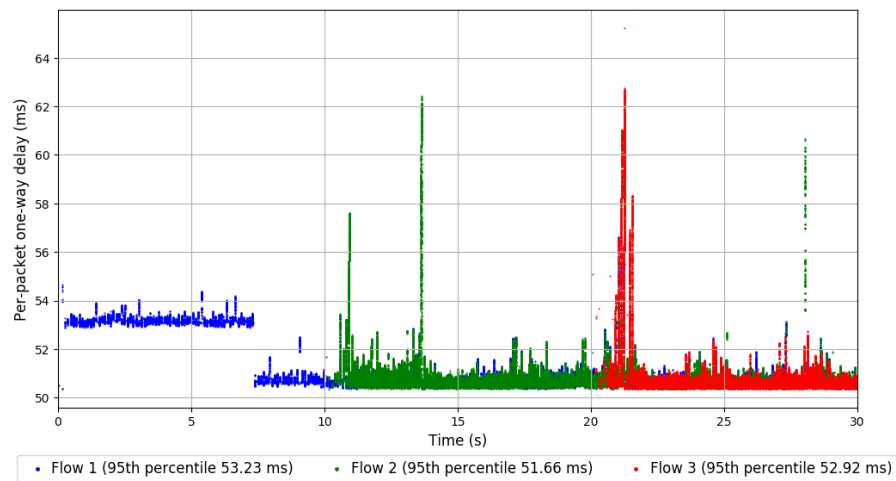
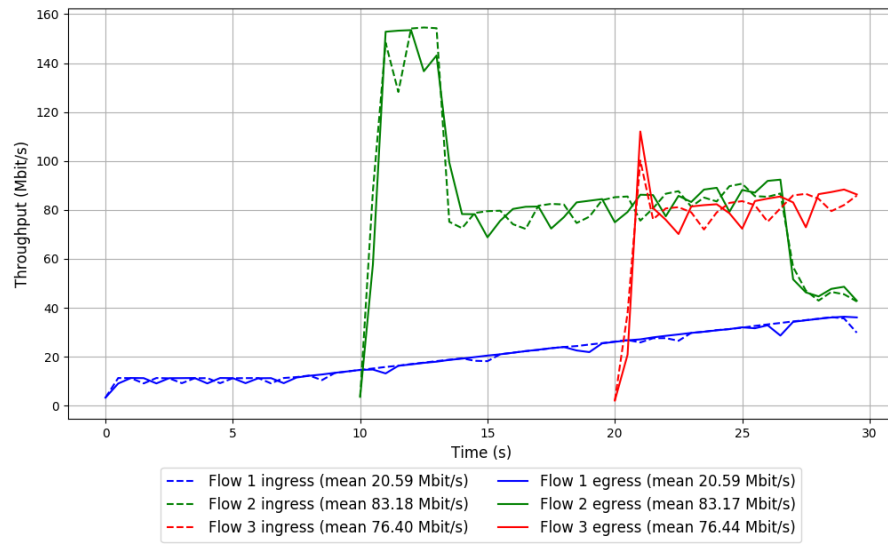
-- Flow 3:

Average throughput: 76.44 Mbit/s

95th percentile per-packet one-way delay: 52.925 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-17 01:57:41

End at: 2017-11-17 01:58:11

Below is generated by plot.py at 2017-11-17 05:23:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 98.75 Mbit/s

95th percentile per-packet one-way delay: 51.472 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 48.72 Mbit/s

95th percentile per-packet one-way delay: 51.351 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 45.50 Mbit/s

95th percentile per-packet one-way delay: 51.301 ms

Loss rate: 0.00%

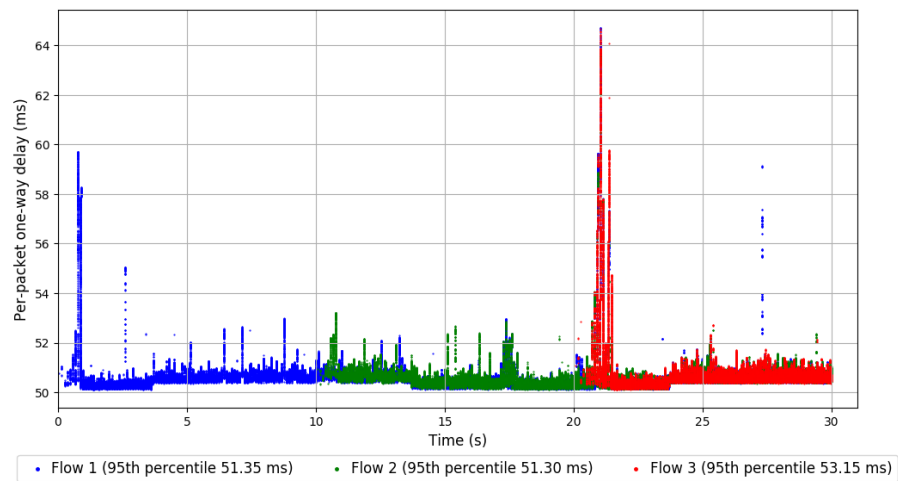
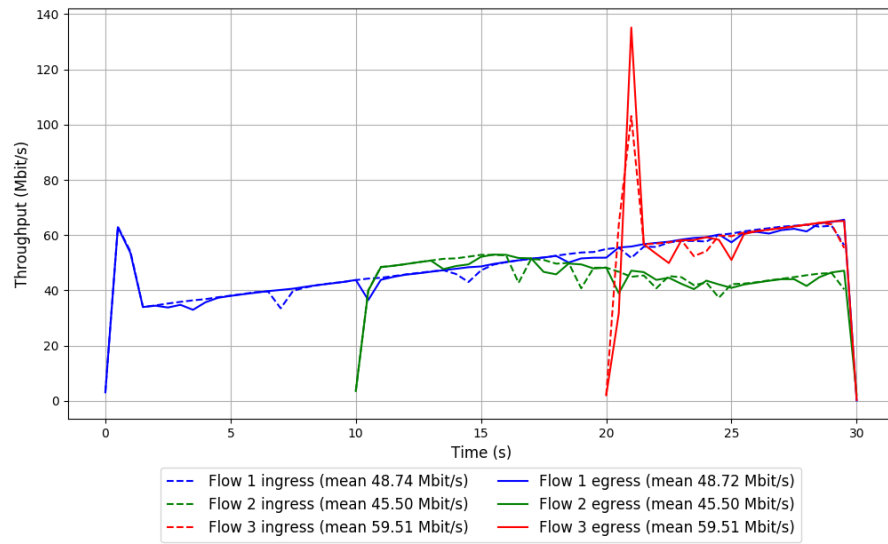
-- Flow 3:

Average throughput: 59.51 Mbit/s

95th percentile per-packet one-way delay: 53.148 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-17 02:09:35

End at: 2017-11-17 02:10:05

Below is generated by plot.py at 2017-11-17 05:23:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.58 Mbit/s

95th percentile per-packet one-way delay: 54.225 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 46.29 Mbit/s

95th percentile per-packet one-way delay: 53.928 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 37.93 Mbit/s

95th percentile per-packet one-way delay: 56.240 ms

Loss rate: 0.05%

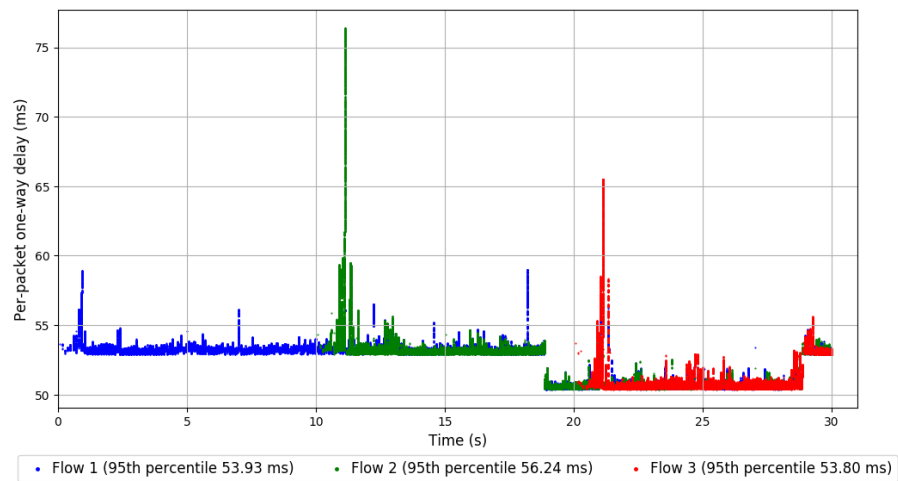
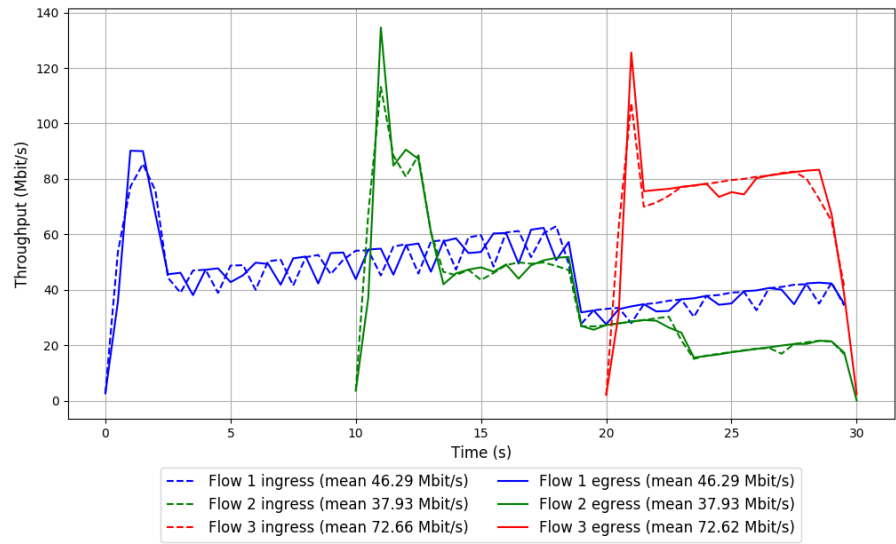
-- Flow 3:

Average throughput: 72.62 Mbit/s

95th percentile per-packet one-way delay: 53.804 ms

Loss rate: 0.08%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-17 02:21:39

End at: 2017-11-17 02:22:09

Below is generated by plot.py at 2017-11-17 05:23:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 98.41 Mbit/s

95th percentile per-packet one-way delay: 53.697 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 44.76 Mbit/s

95th percentile per-packet one-way delay: 53.476 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 49.71 Mbit/s

95th percentile per-packet one-way delay: 53.913 ms

Loss rate: 0.01%

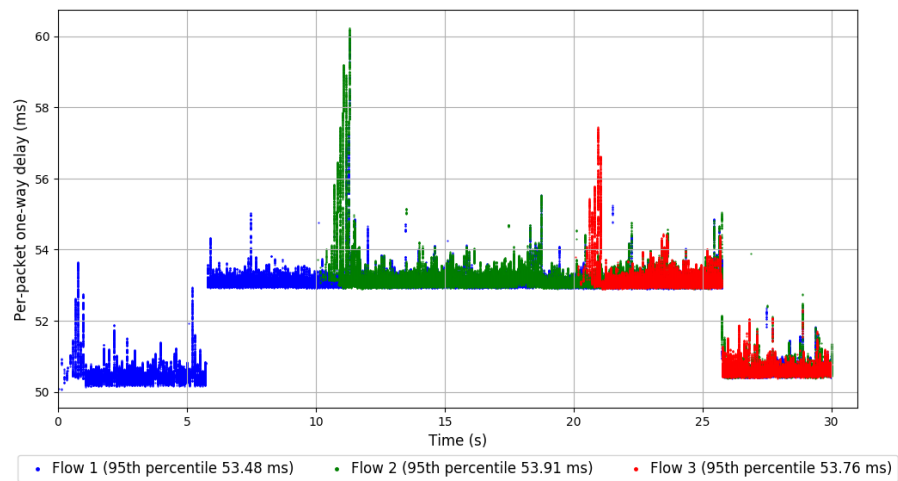
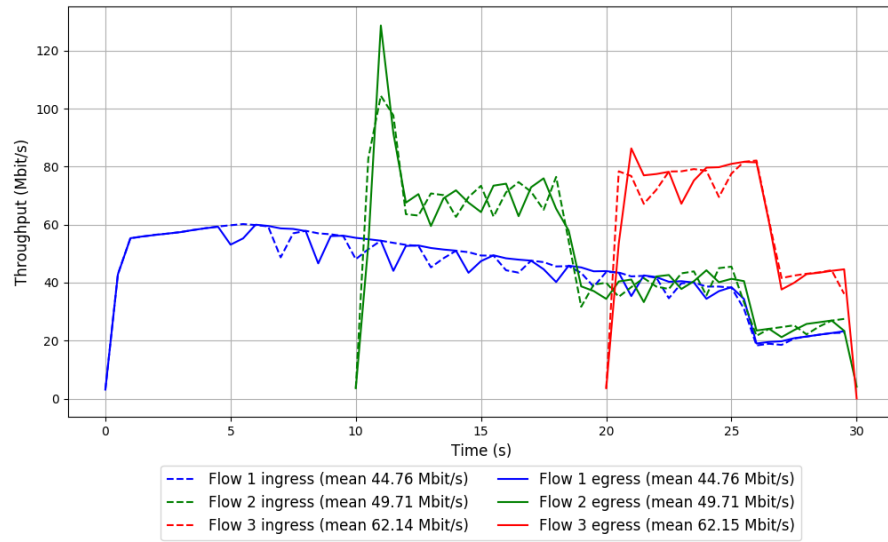
-- Flow 3:

Average throughput: 62.15 Mbit/s

95th percentile per-packet one-way delay: 53.762 ms

Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-17 02:33:27

End at: 2017-11-17 02:33:57

Below is generated by plot.py at 2017-11-17 05:23:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.67 Mbit/s

95th percentile per-packet one-way delay: 53.576 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 9.62 Mbit/s

95th percentile per-packet one-way delay: 53.524 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 17.94 Mbit/s

95th percentile per-packet one-way delay: 53.632 ms

Loss rate: 0.00%

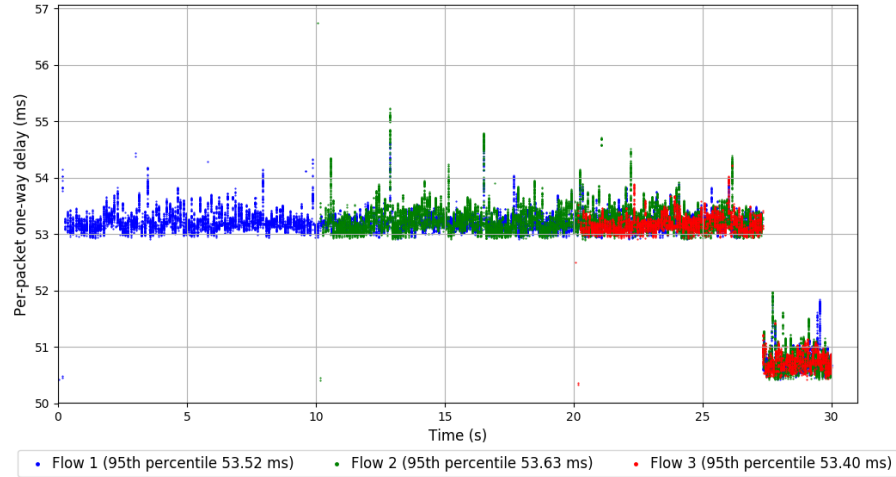
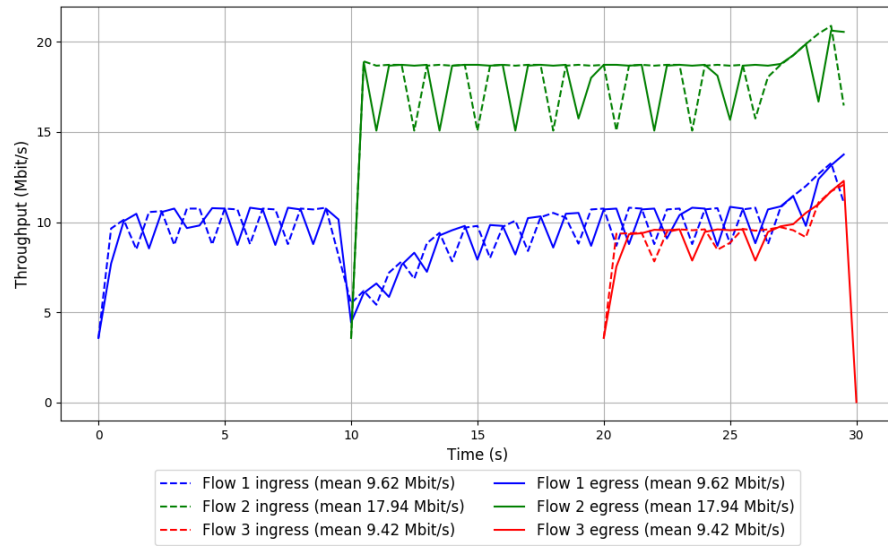
-- Flow 3:

Average throughput: 9.42 Mbit/s

95th percentile per-packet one-way delay: 53.398 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-17 02:45:27

End at: 2017-11-17 02:45:57

Below is generated by plot.py at 2017-11-17 05:23:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.66 Mbit/s

95th percentile per-packet one-way delay: 53.575 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 73.68 Mbit/s

95th percentile per-packet one-way delay: 53.578 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 9.23 Mbit/s

95th percentile per-packet one-way delay: 53.589 ms

Loss rate: 0.03%

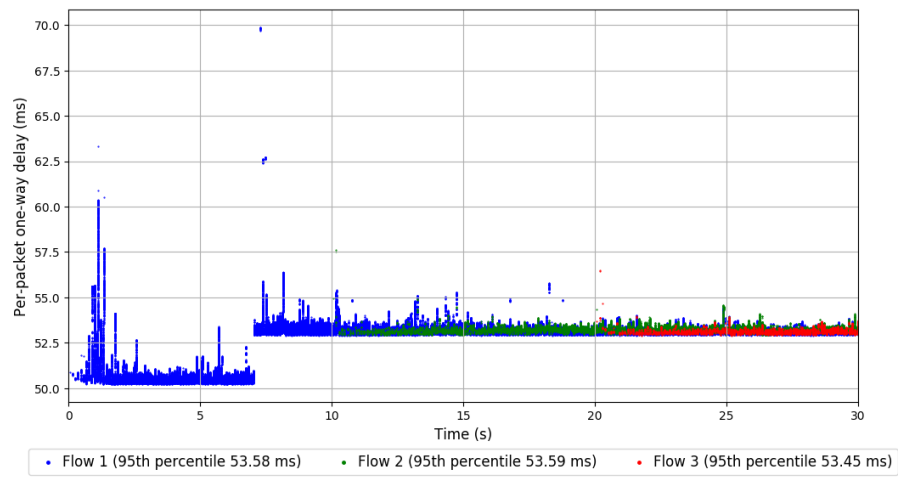
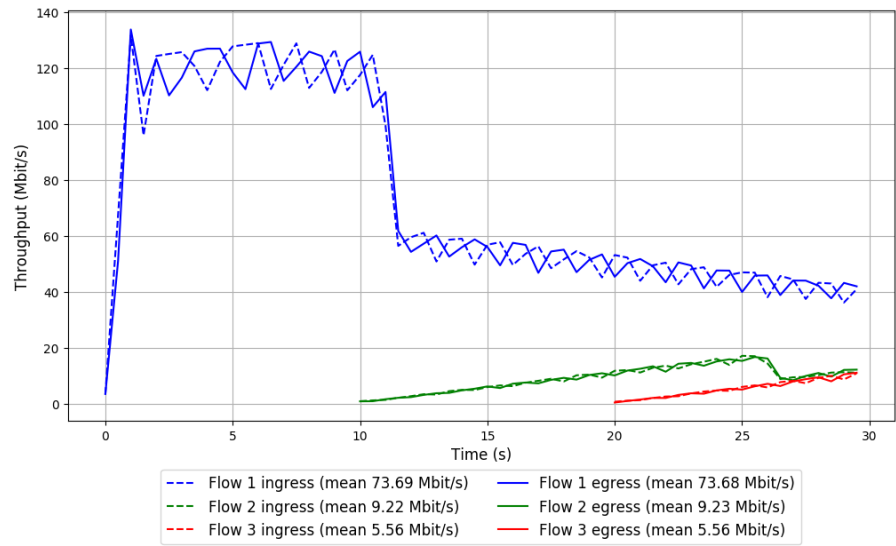
-- Flow 3:

Average throughput: 5.56 Mbit/s

95th percentile per-packet one-way delay: 53.451 ms

Loss rate: 0.09%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-17 02:57:37

End at: 2017-11-17 02:58:07

Below is generated by plot.py at 2017-11-17 05:23:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.12 Mbit/s

95th percentile per-packet one-way delay: 54.733 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 61.22 Mbit/s

95th percentile per-packet one-way delay: 53.678 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 63.95 Mbit/s

95th percentile per-packet one-way delay: 53.955 ms

Loss rate: 0.00%

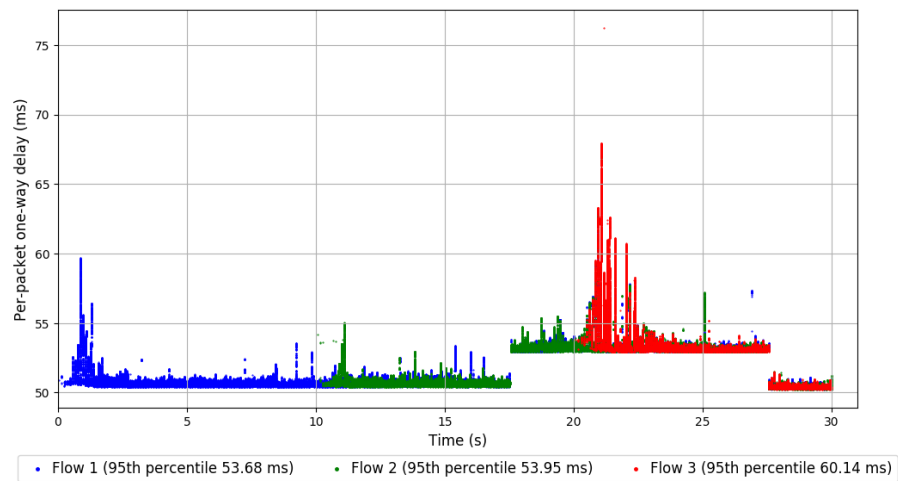
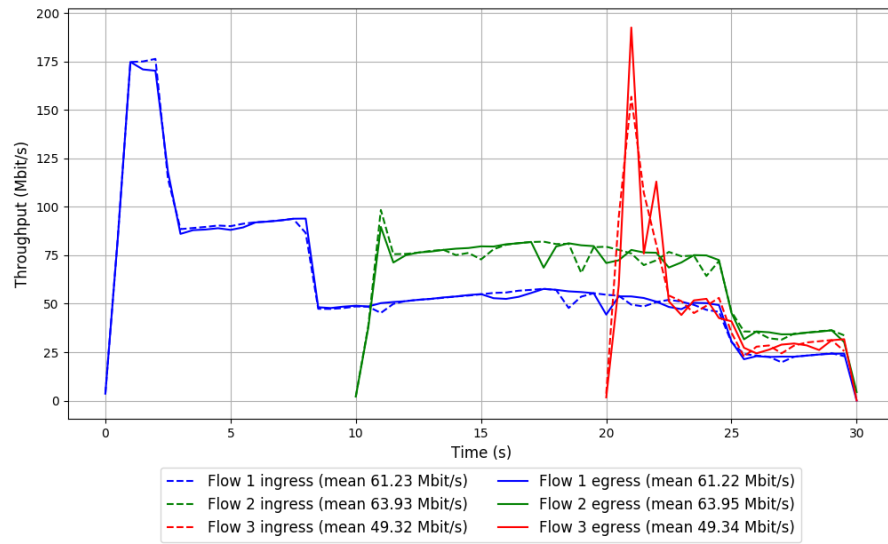
-- Flow 3:

Average throughput: 49.34 Mbit/s

95th percentile per-packet one-way delay: 60.137 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-17 03:09:31

End at: 2017-11-17 03:10:01

Below is generated by plot.py at 2017-11-17 05:23:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.23 Mbit/s

95th percentile per-packet one-way delay: 53.858 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 21.55 Mbit/s

95th percentile per-packet one-way delay: 53.701 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 54.33 Mbit/s

95th percentile per-packet one-way delay: 53.744 ms

Loss rate: 0.72%

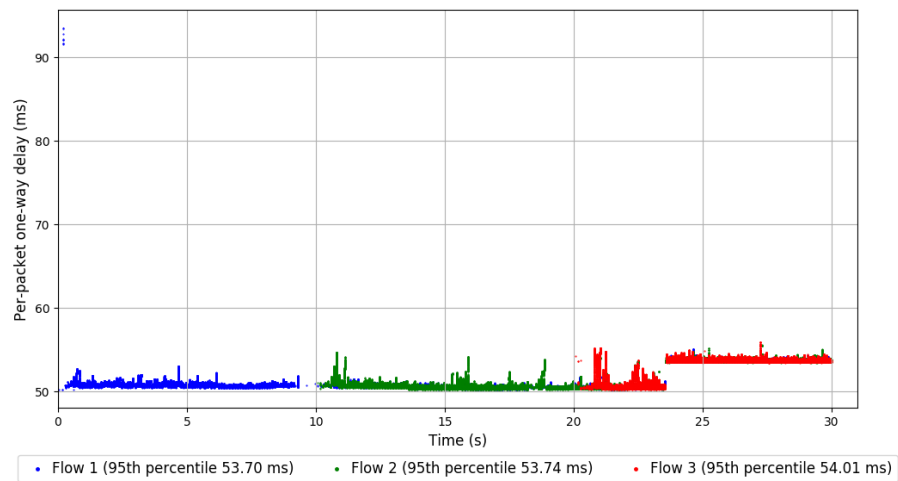
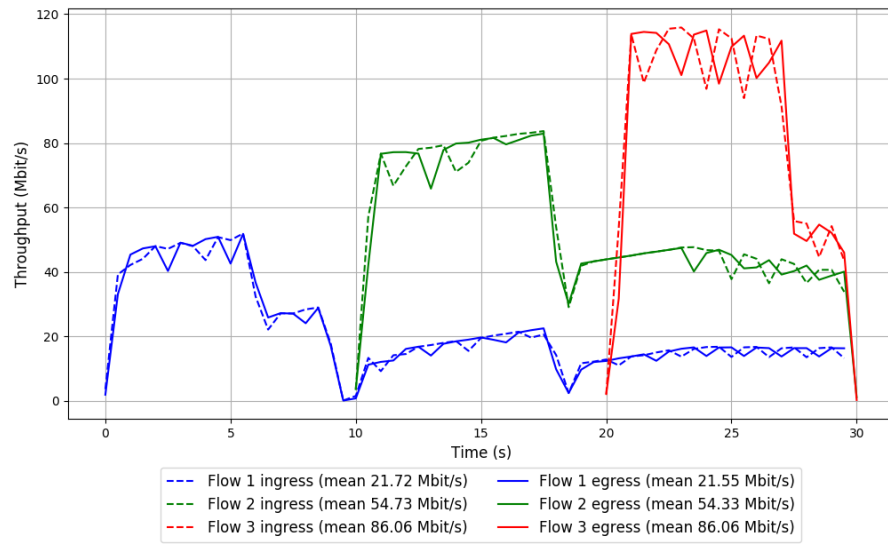
-- Flow 3:

Average throughput: 86.06 Mbit/s

95th percentile per-packet one-way delay: 54.013 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-17 03:21:56

End at: 2017-11-17 03:22:26

Below is generated by plot.py at 2017-11-17 05:23:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.20 Mbit/s

95th percentile per-packet one-way delay: 54.743 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 8.68 Mbit/s

95th percentile per-packet one-way delay: 53.804 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 9.93 Mbit/s

95th percentile per-packet one-way delay: 53.895 ms

Loss rate: 0.00%

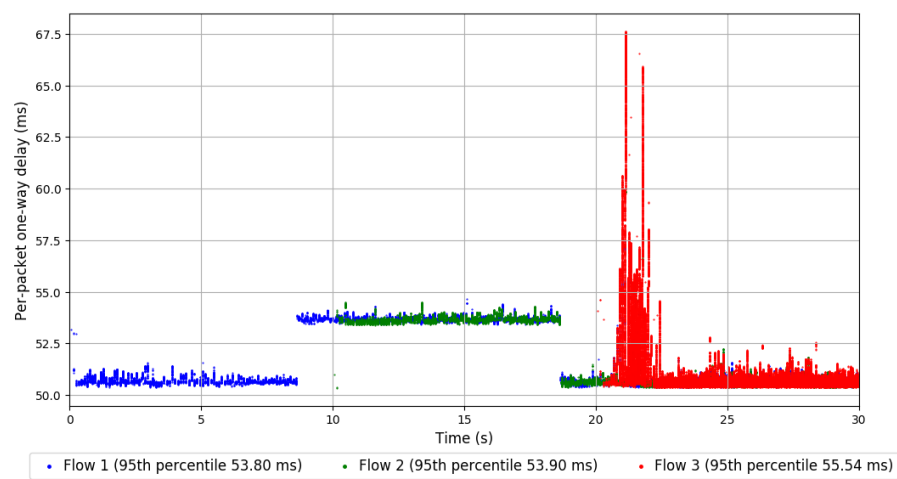
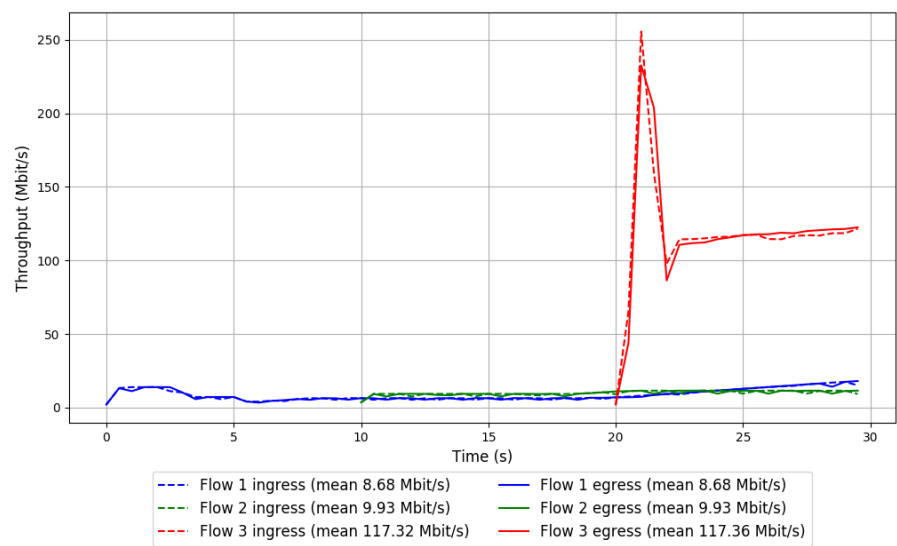
-- Flow 3:

Average throughput: 117.36 Mbit/s

95th percentile per-packet one-way delay: 55.541 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-17 03:33:59

End at: 2017-11-17 03:34:29

Below is generated by plot.py at 2017-11-17 05:23:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.18 Mbit/s

95th percentile per-packet one-way delay: 51.381 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 40.92 Mbit/s

95th percentile per-packet one-way delay: 51.434 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.36 Mbit/s

95th percentile per-packet one-way delay: 50.924 ms

Loss rate: 0.01%

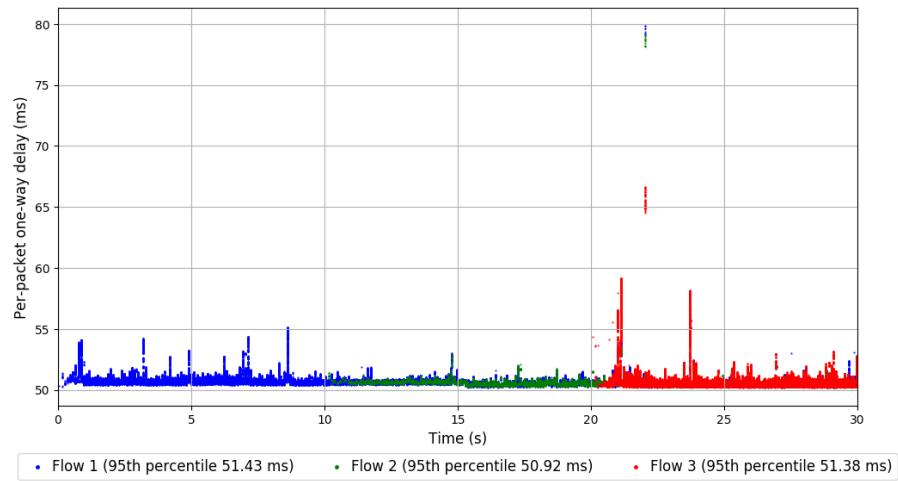
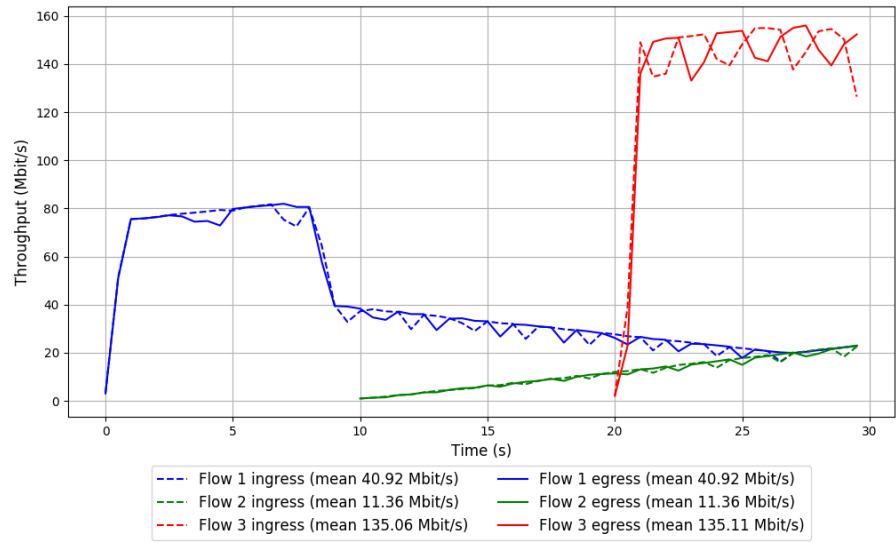
-- Flow 3:

Average throughput: 135.11 Mbit/s

95th percentile per-packet one-way delay: 51.385 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

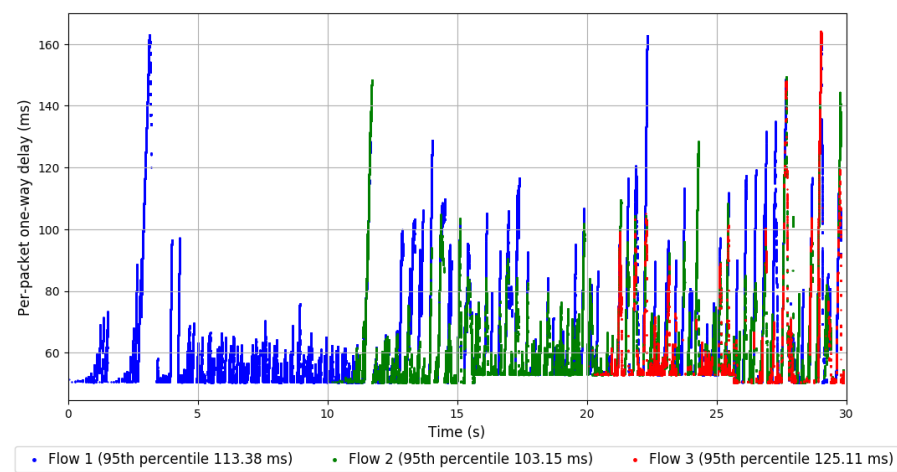
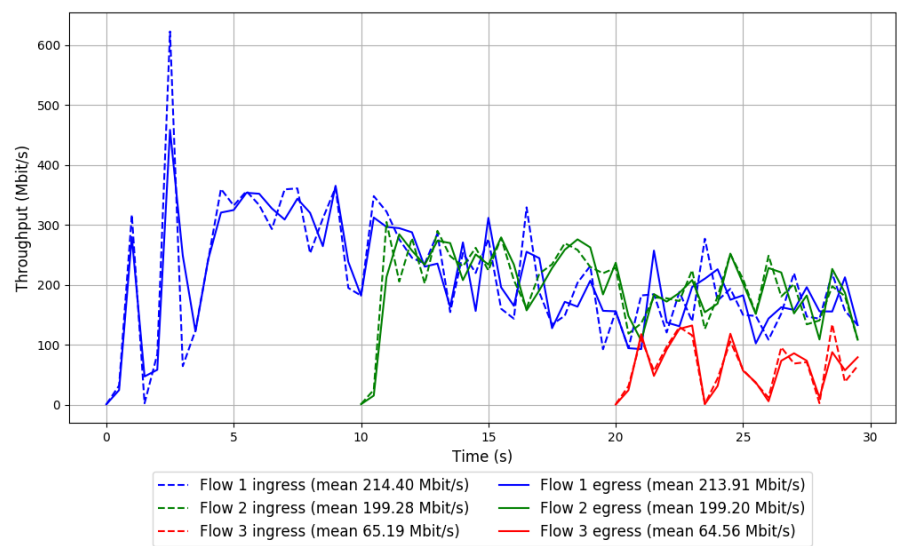


```
Run 1: Statistics of Verus

Start at: 2017-11-17 01:43:28
End at: 2017-11-17 01:43:59

# Below is generated by plot.py at 2017-11-17 05:26:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 366.73 Mbit/s
95th percentile per-packet one-way delay: 110.512 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 213.91 Mbit/s
95th percentile per-packet one-way delay: 113.384 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 199.20 Mbit/s
95th percentile per-packet one-way delay: 103.149 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 64.56 Mbit/s
95th percentile per-packet one-way delay: 125.108 ms
Loss rate: 1.01%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-17 01:55:31

End at: 2017-11-17 01:56:01

Below is generated by plot.py at 2017-11-17 05:26:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 360.42 Mbit/s

95th percentile per-packet one-way delay: 95.369 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 183.31 Mbit/s

95th percentile per-packet one-way delay: 80.588 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 217.44 Mbit/s

95th percentile per-packet one-way delay: 105.739 ms

Loss rate: 0.02%

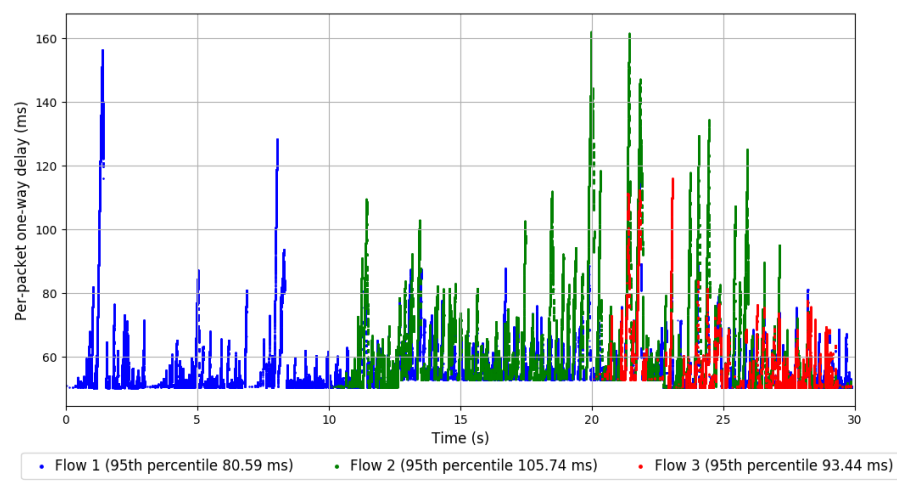
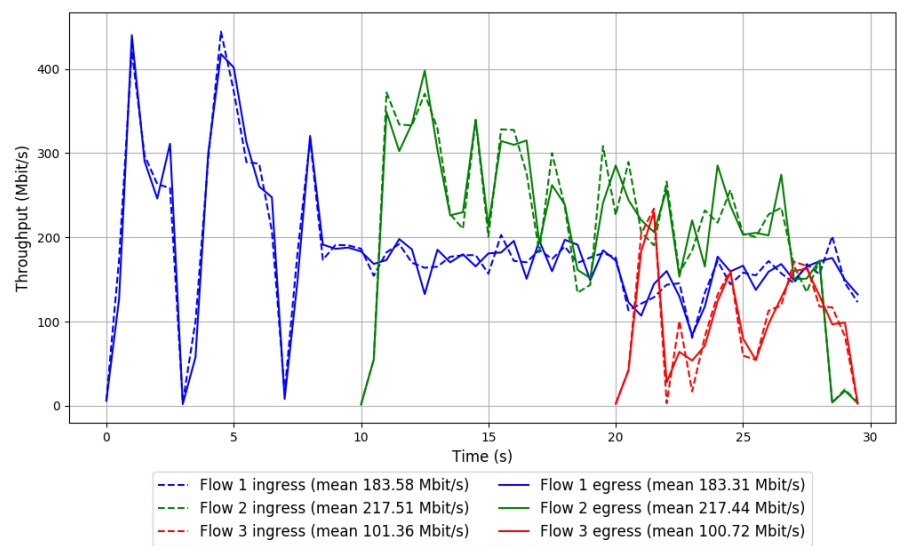
-- Flow 3:

Average throughput: 100.72 Mbit/s

95th percentile per-packet one-way delay: 93.436 ms

Loss rate: 0.65%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-17 02:07:24

End at: 2017-11-17 02:07:54

Below is generated by plot.py at 2017-11-17 05:27:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 415.75 Mbit/s

95th percentile per-packet one-way delay: 100.928 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 243.69 Mbit/s

95th percentile per-packet one-way delay: 99.102 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 184.93 Mbit/s

95th percentile per-packet one-way delay: 99.759 ms

Loss rate: 0.01%

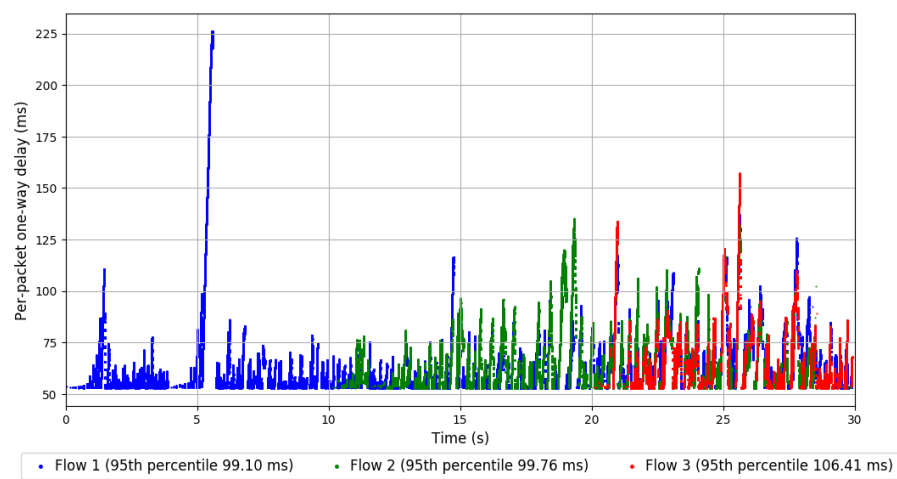
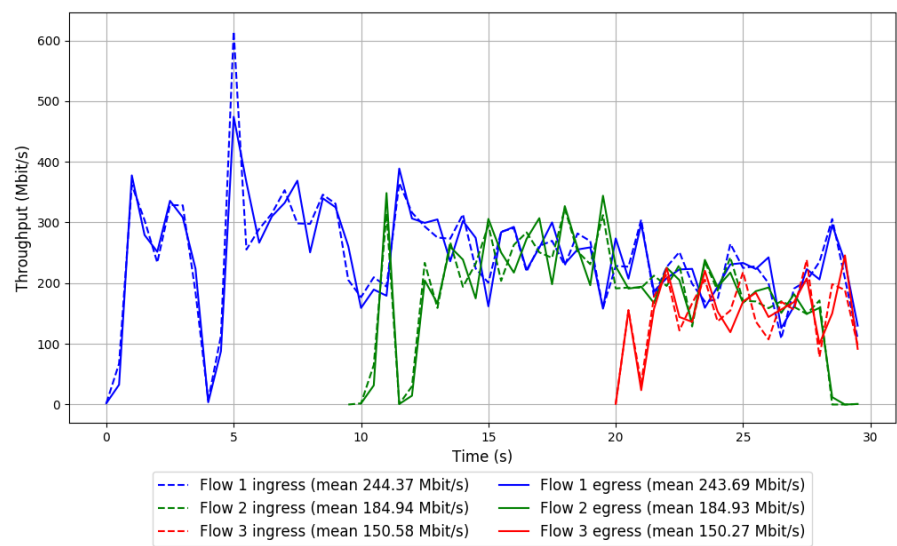
-- Flow 3:

Average throughput: 150.27 Mbit/s

95th percentile per-packet one-way delay: 106.405 ms

Loss rate: 0.20%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-17 02:19:27

End at: 2017-11-17 02:19:57

Below is generated by plot.py at 2017-11-17 05:27:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 404.24 Mbit/s

95th percentile per-packet one-way delay: 140.786 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 281.22 Mbit/s

95th percentile per-packet one-way delay: 143.019 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 130.95 Mbit/s

95th percentile per-packet one-way delay: 129.856 ms

Loss rate: 0.07%

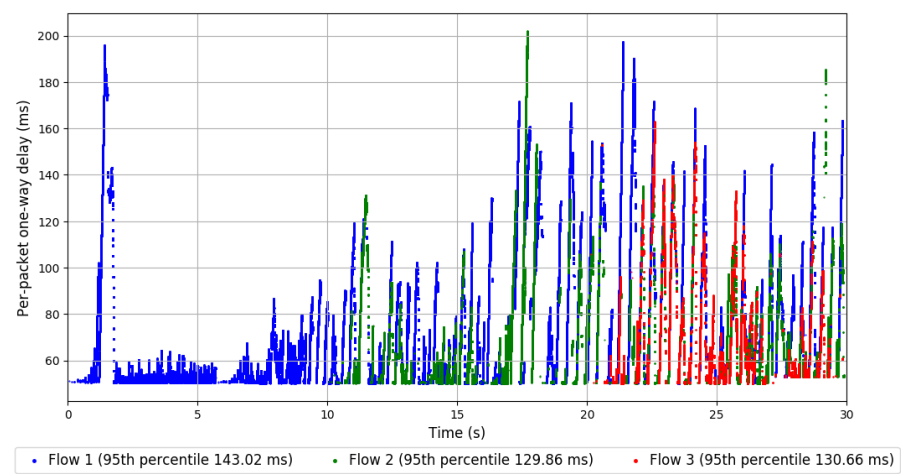
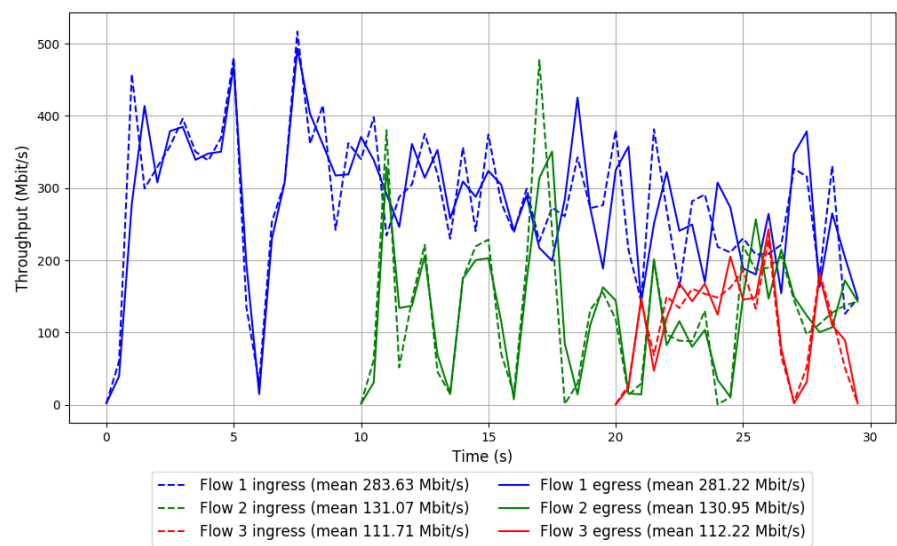
-- Flow 3:

Average throughput: 112.22 Mbit/s

95th percentile per-packet one-way delay: 130.663 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-17 02:31:18

End at: 2017-11-17 02:31:48

Below is generated by plot.py at 2017-11-17 05:27:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 428.12 Mbit/s

95th percentile per-packet one-way delay: 111.933 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 239.57 Mbit/s

95th percentile per-packet one-way delay: 109.381 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 194.38 Mbit/s

95th percentile per-packet one-way delay: 113.148 ms

Loss rate: 0.64%

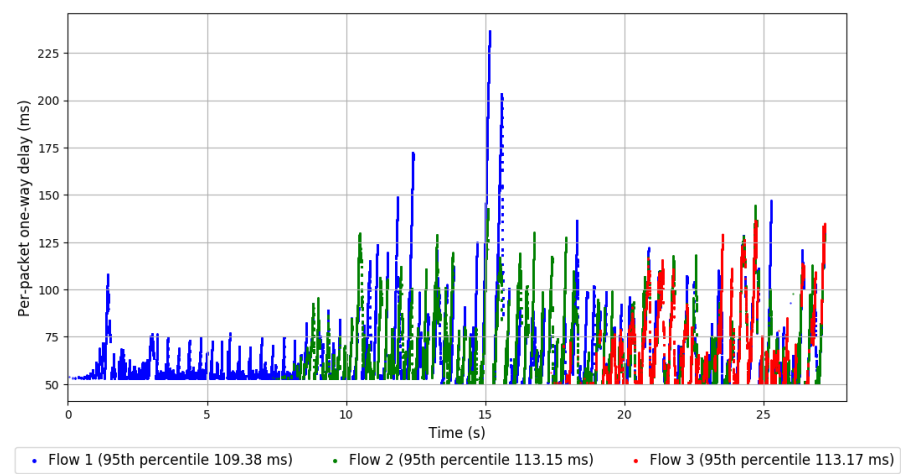
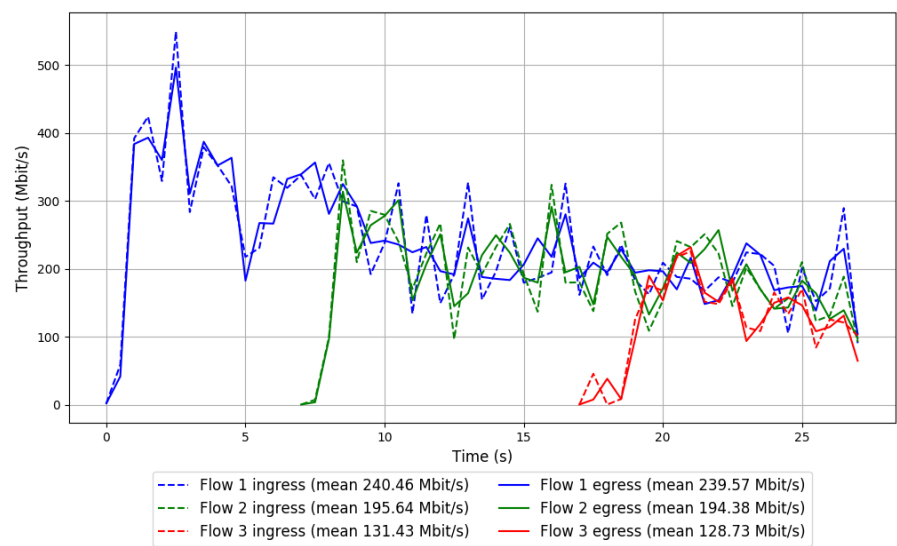
-- Flow 3:

Average throughput: 128.73 Mbit/s

95th percentile per-packet one-way delay: 113.173 ms

Loss rate: 1.48%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-17 02:43:17

End at: 2017-11-17 02:43:47

Below is generated by plot.py at 2017-11-17 05:28:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 387.47 Mbit/s

95th percentile per-packet one-way delay: 139.482 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 225.27 Mbit/s

95th percentile per-packet one-way delay: 136.278 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 180.31 Mbit/s

95th percentile per-packet one-way delay: 145.497 ms

Loss rate: 0.68%

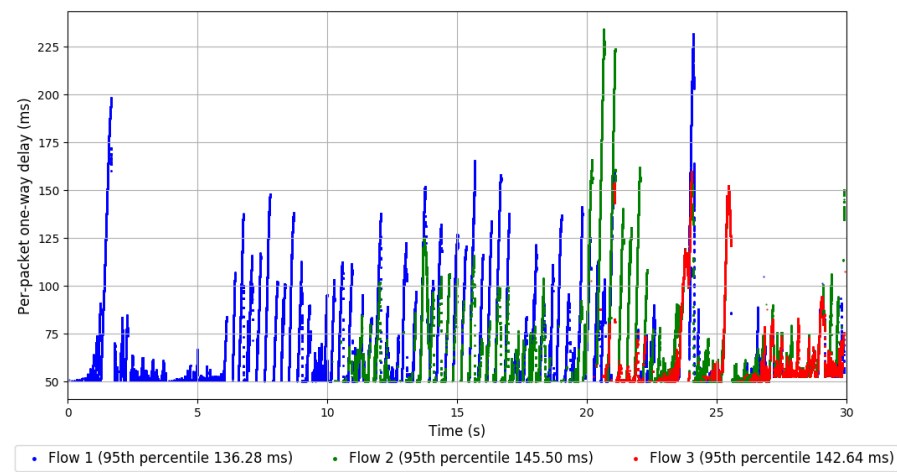
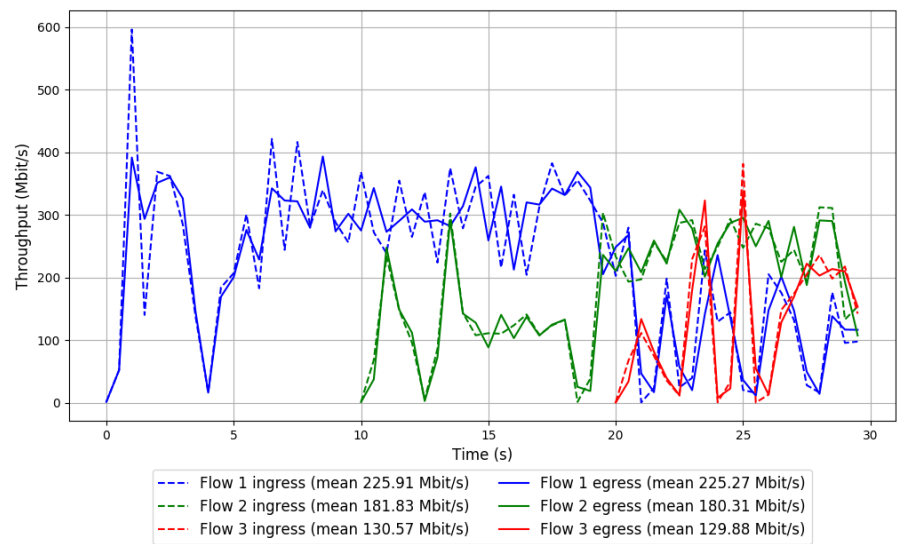
-- Flow 3:

Average throughput: 129.88 Mbit/s

95th percentile per-packet one-way delay: 142.643 ms

Loss rate: 0.90%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-17 02:55:28

End at: 2017-11-17 02:55:58

Below is generated by plot.py at 2017-11-17 05:28:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 389.51 Mbit/s

95th percentile per-packet one-way delay: 134.085 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 232.89 Mbit/s

95th percentile per-packet one-way delay: 126.497 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 148.92 Mbit/s

95th percentile per-packet one-way delay: 142.469 ms

Loss rate: 1.22%

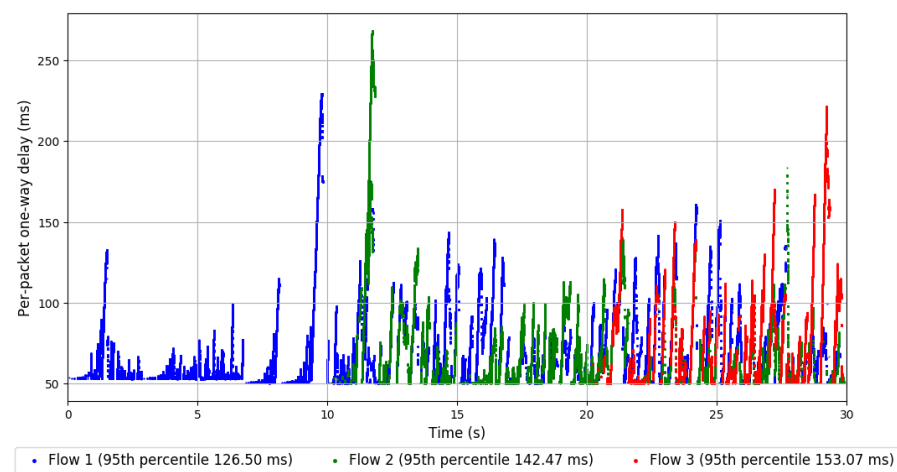
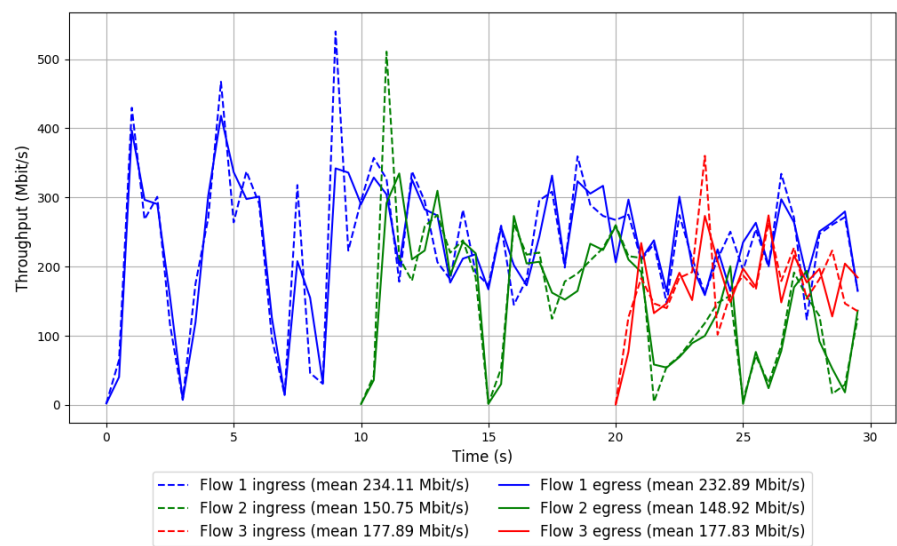
-- Flow 3:

Average throughput: 177.83 Mbit/s

95th percentile per-packet one-way delay: 153.074 ms

Loss rate: 0.03%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-17 03:07:21

End at: 2017-11-17 03:07:51

Below is generated by plot.py at 2017-11-17 05:30:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 374.54 Mbit/s

95th percentile per-packet one-way delay: 90.550 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 198.42 Mbit/s

95th percentile per-packet one-way delay: 82.543 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 221.95 Mbit/s

95th percentile per-packet one-way delay: 110.691 ms

Loss rate: 0.33%

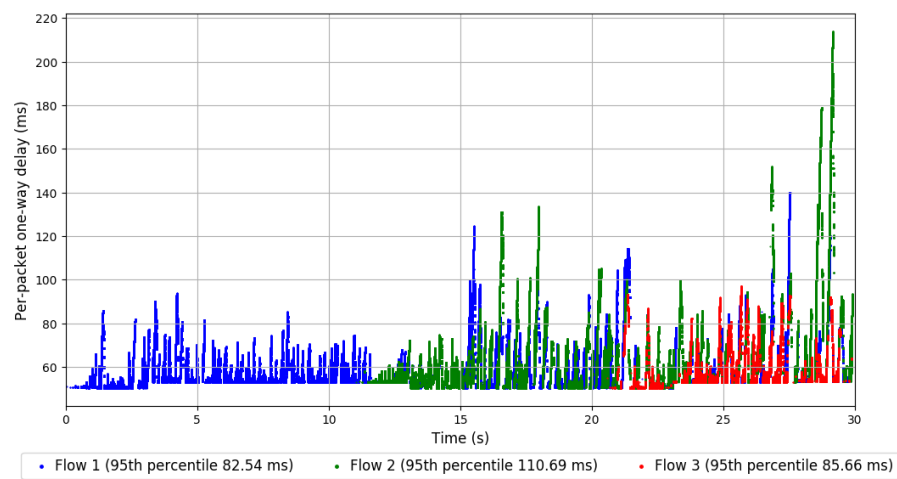
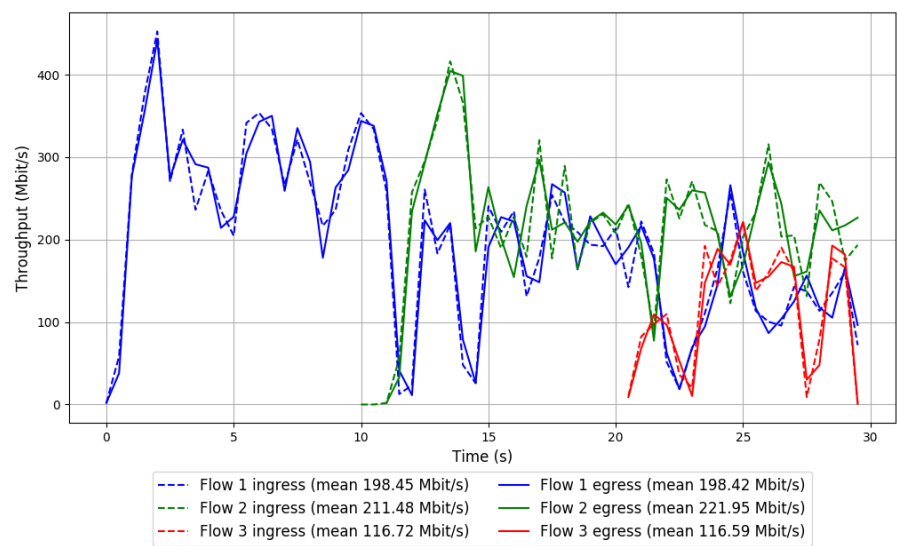
-- Flow 3:

Average throughput: 116.59 Mbit/s

95th percentile per-packet one-way delay: 85.663 ms

Loss rate: 0.02%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-17 03:19:44

End at: 2017-11-17 03:20:14

Below is generated by plot.py at 2017-11-17 05:32:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 358.71 Mbit/s

95th percentile per-packet one-way delay: 97.658 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 222.78 Mbit/s

95th percentile per-packet one-way delay: 101.802 ms

Loss rate: 1.17%

-- Flow 2:

Average throughput: 153.04 Mbit/s

95th percentile per-packet one-way delay: 92.977 ms

Loss rate: 0.01%

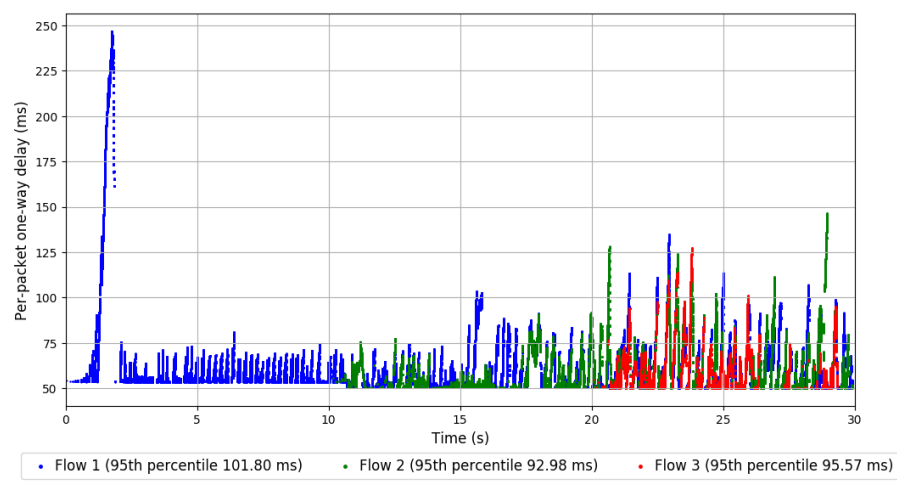
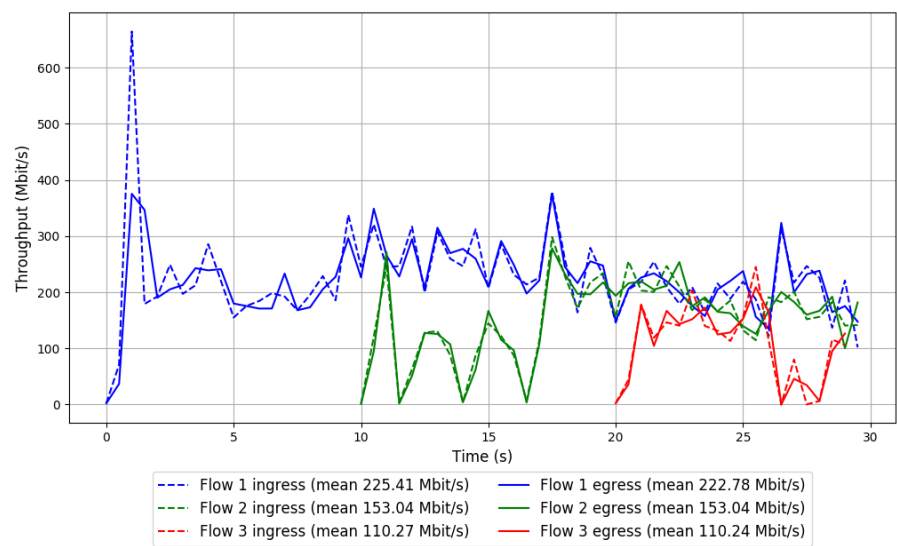
-- Flow 3:

Average throughput: 110.24 Mbit/s

95th percentile per-packet one-way delay: 95.571 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-17 03:31:48

End at: 2017-11-17 03:32:18

Below is generated by plot.py at 2017-11-17 05:33:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 374.54 Mbit/s

95th percentile per-packet one-way delay: 111.144 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 216.87 Mbit/s

95th percentile per-packet one-way delay: 108.066 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 183.50 Mbit/s

95th percentile per-packet one-way delay: 117.263 ms

Loss rate: 0.00%

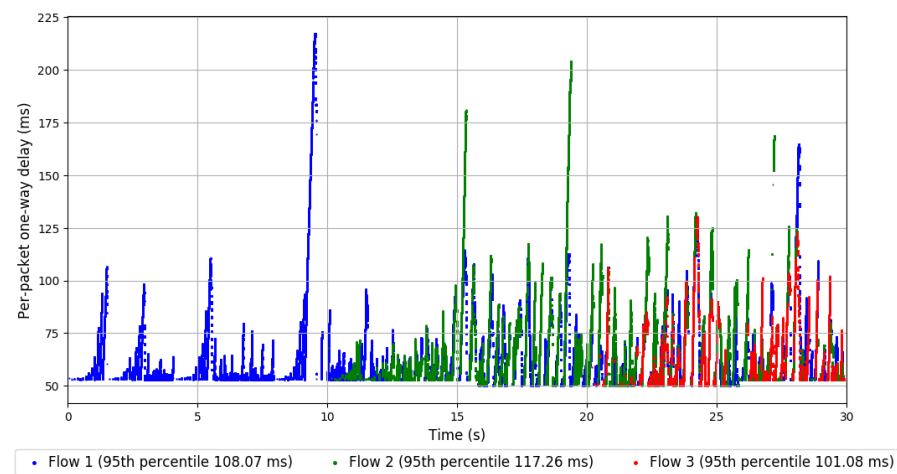
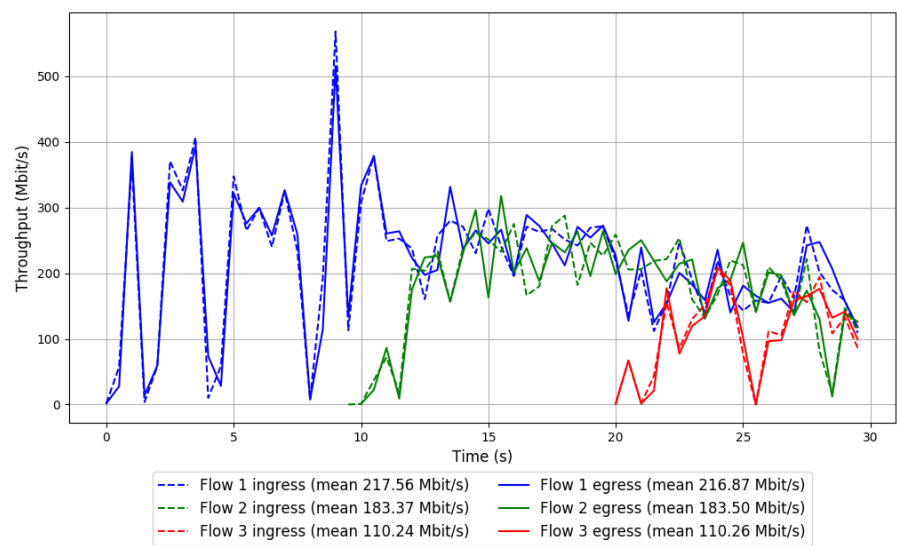
-- Flow 3:

Average throughput: 110.26 Mbit/s

95th percentile per-packet one-way delay: 101.080 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link

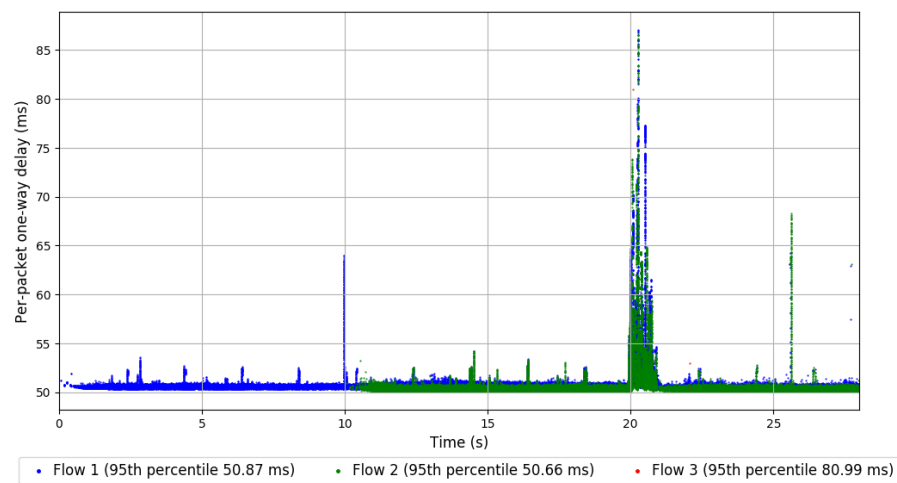
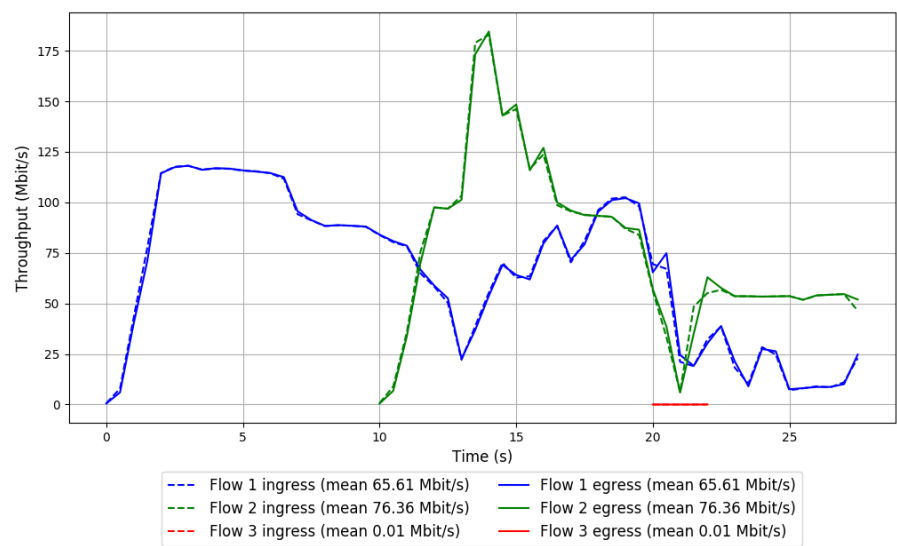


```
Run 1: Statistics of Copa

Start at: 2017-11-17 01:36:12
End at: 2017-11-17 01:36:42

# Below is generated by plot.py at 2017-11-17 05:33:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 114.63 Mbit/s
95th percentile per-packet one-way delay: 50.814 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 65.61 Mbit/s
95th percentile per-packet one-way delay: 50.866 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 76.36 Mbit/s
95th percentile per-packet one-way delay: 50.655 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 80.990 ms
Loss rate: 46.17%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-17 01:48:22

End at: 2017-11-17 01:48:52

Below is generated by plot.py at 2017-11-17 05:33:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.53 Mbit/s

95th percentile per-packet one-way delay: 53.330 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 68.44 Mbit/s

95th percentile per-packet one-way delay: 53.425 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 76.89 Mbit/s

95th percentile per-packet one-way delay: 50.603 ms

Loss rate: 0.00%

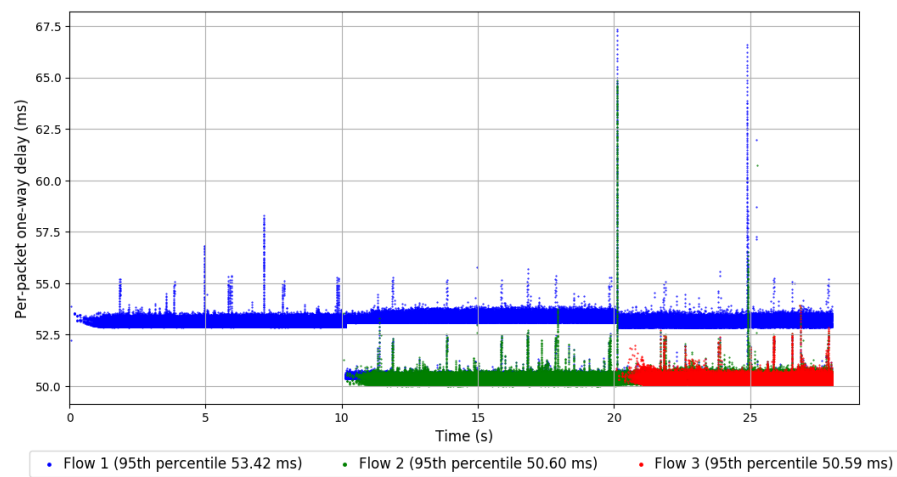
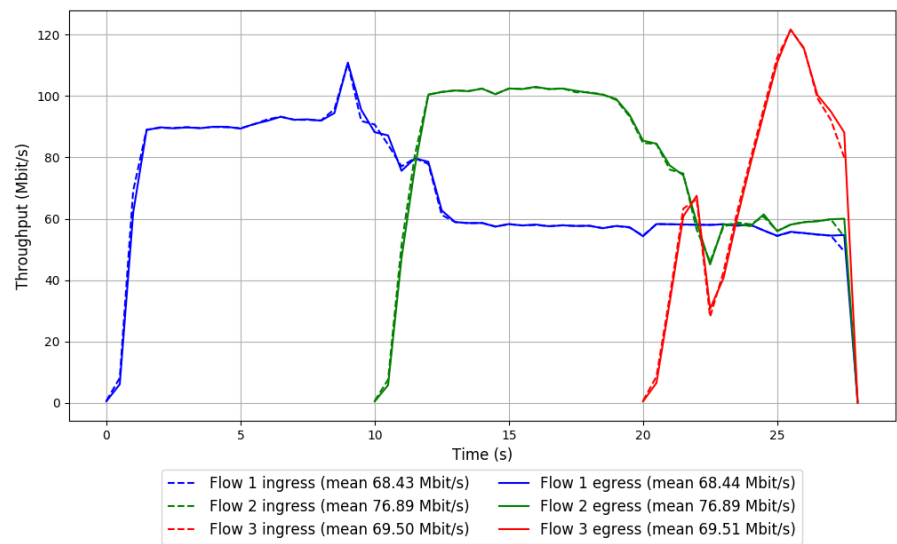
-- Flow 3:

Average throughput: 69.51 Mbit/s

95th percentile per-packet one-way delay: 50.592 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-17 02:00:25

End at: 2017-11-17 02:00:55

Below is generated by plot.py at 2017-11-17 05:33:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 140.69 Mbit/s

95th percentile per-packet one-way delay: 53.234 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 73.19 Mbit/s

95th percentile per-packet one-way delay: 53.313 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 75.33 Mbit/s

95th percentile per-packet one-way delay: 53.105 ms

Loss rate: 0.00%

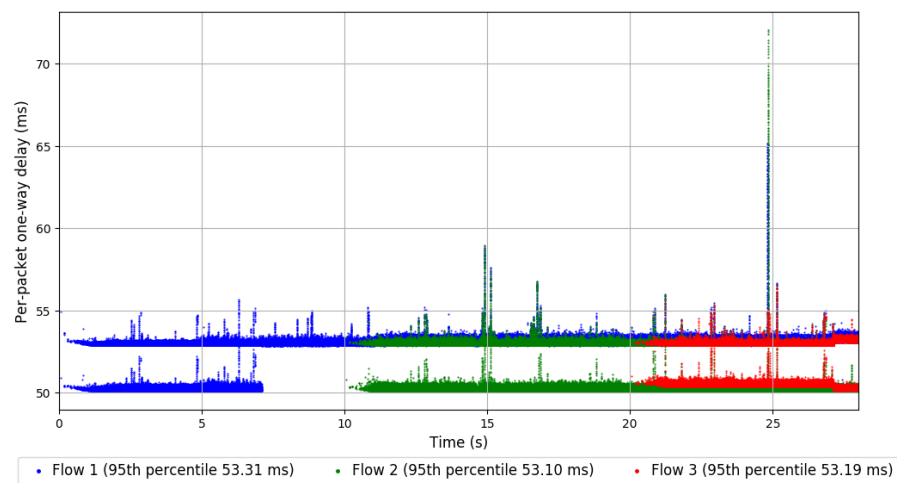
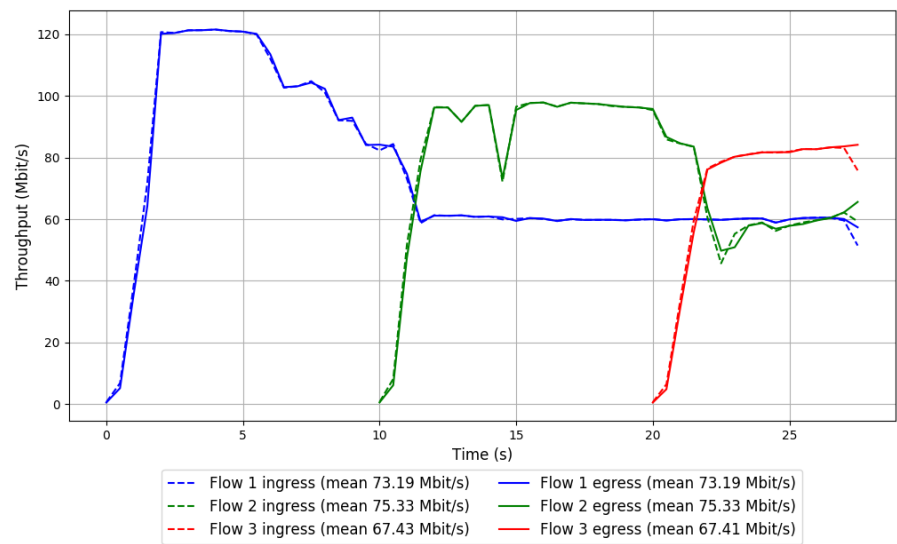
-- Flow 3:

Average throughput: 67.41 Mbit/s

95th percentile per-packet one-way delay: 53.186 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-17 02:12:19

End at: 2017-11-17 02:12:49

Below is generated by plot.py at 2017-11-17 05:33:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.79 Mbit/s

95th percentile per-packet one-way delay: 53.074 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 67.46 Mbit/s

95th percentile per-packet one-way delay: 53.077 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 71.29 Mbit/s

95th percentile per-packet one-way delay: 53.038 ms

Loss rate: 0.00%

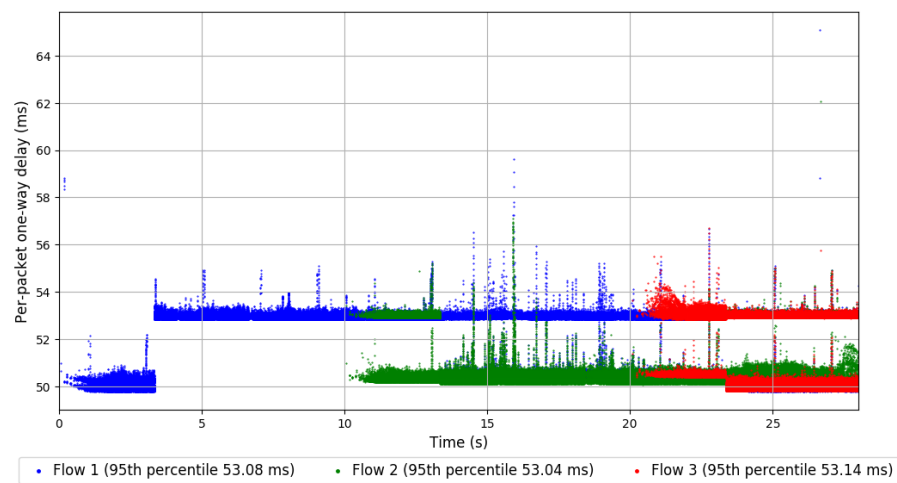
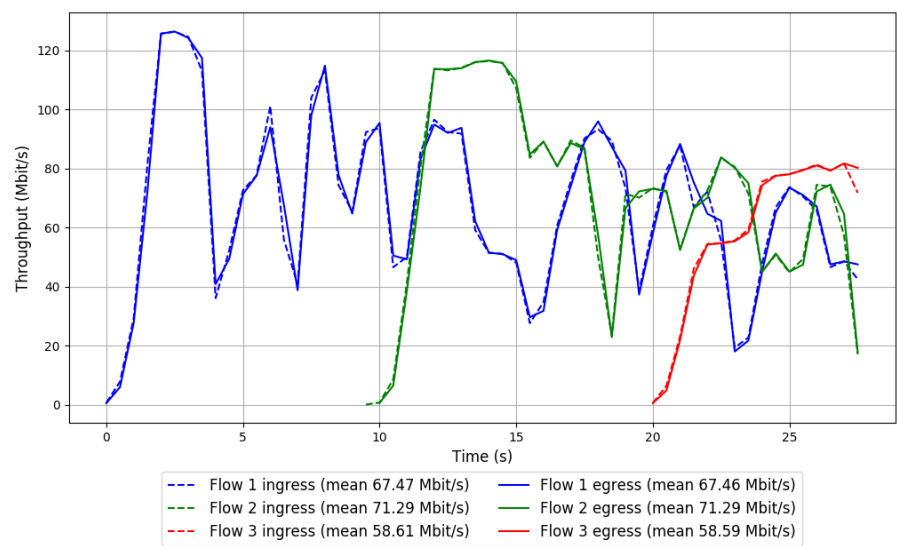
-- Flow 3:

Average throughput: 58.59 Mbit/s

95th percentile per-packet one-way delay: 53.143 ms

Loss rate: 0.02%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-17 02:24:23

End at: 2017-11-17 02:24:53

Below is generated by plot.py at 2017-11-17 05:33:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 150.87 Mbit/s

95th percentile per-packet one-way delay: 53.167 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 76.36 Mbit/s

95th percentile per-packet one-way delay: 53.229 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 82.34 Mbit/s

95th percentile per-packet one-way delay: 53.100 ms

Loss rate: 0.00%

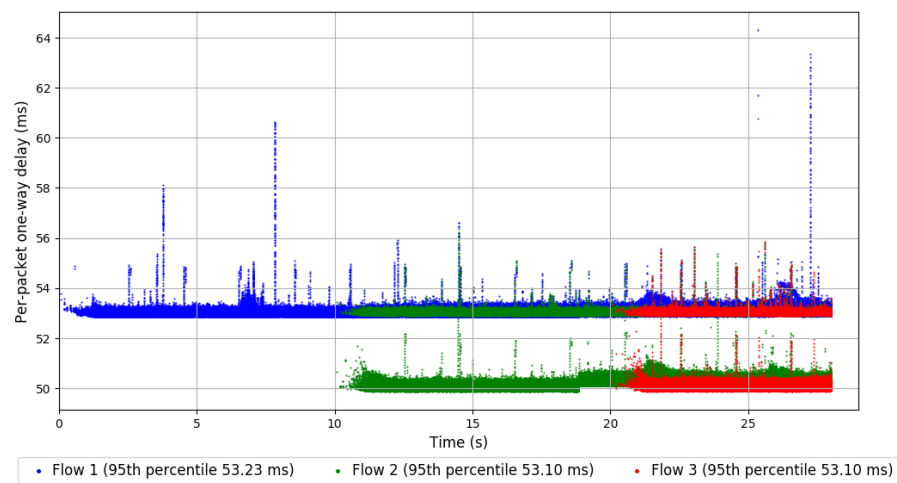
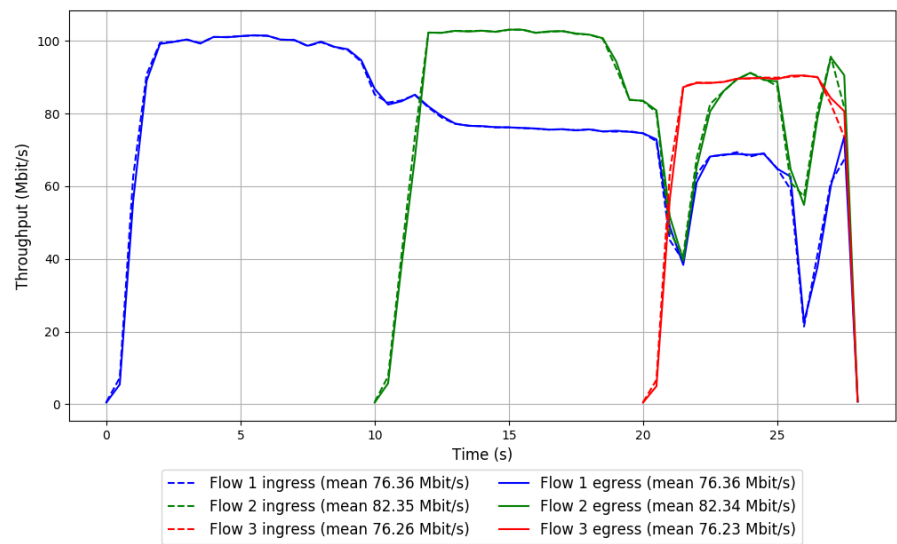
-- Flow 3:

Average throughput: 76.23 Mbit/s

95th percentile per-packet one-way delay: 53.101 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-17 02:36:08

End at: 2017-11-17 02:36:38

Below is generated by plot.py at 2017-11-17 05:34:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.89 Mbit/s

95th percentile per-packet one-way delay: 53.187 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 45.84 Mbit/s

95th percentile per-packet one-way delay: 53.305 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 66.27 Mbit/s

95th percentile per-packet one-way delay: 53.129 ms

Loss rate: 0.00%

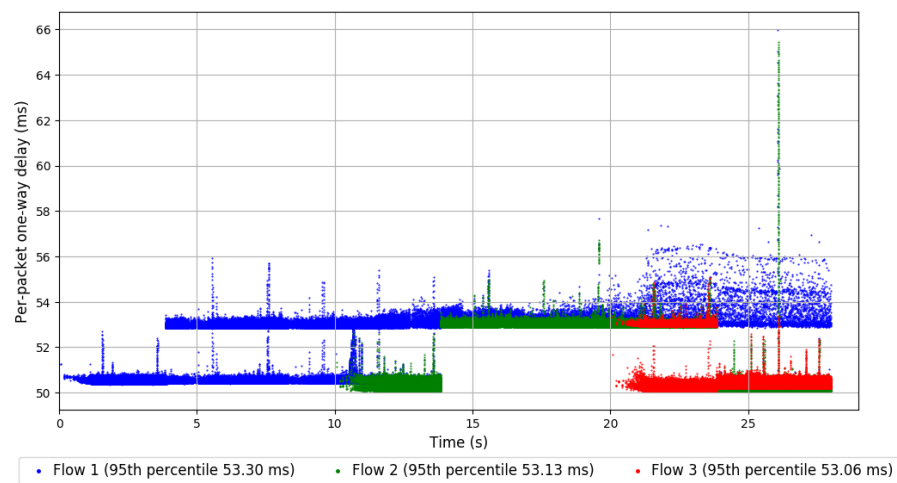
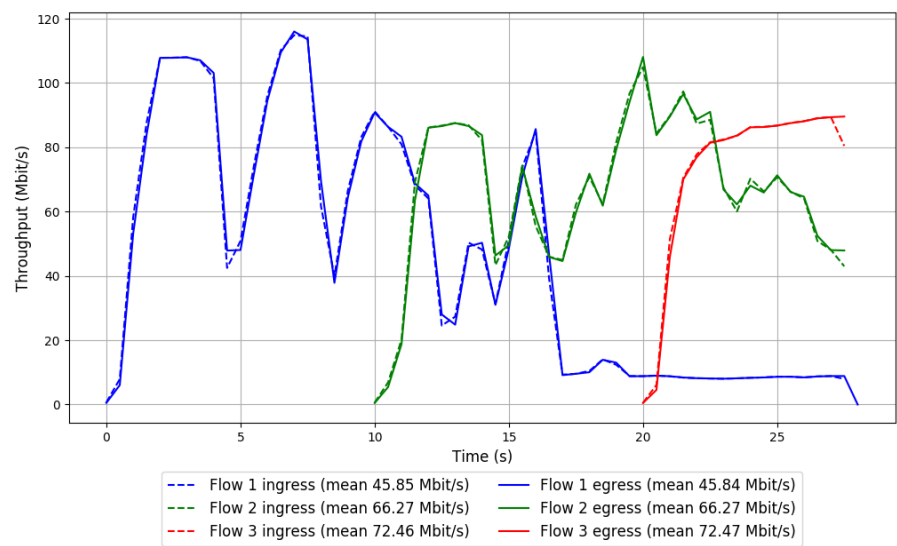
-- Flow 3:

Average throughput: 72.47 Mbit/s

95th percentile per-packet one-way delay: 53.056 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-17 02:48:10

End at: 2017-11-17 02:48:40

Below is generated by plot.py at 2017-11-17 05:34:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.80 Mbit/s

95th percentile per-packet one-way delay: 53.325 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 47.51 Mbit/s

95th percentile per-packet one-way delay: 53.145 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 82.92 Mbit/s

95th percentile per-packet one-way delay: 53.408 ms

Loss rate: 0.01%

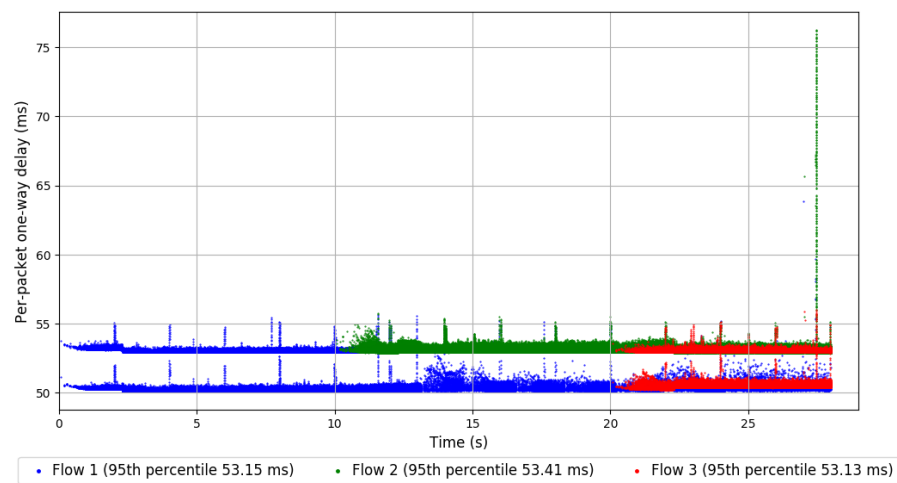
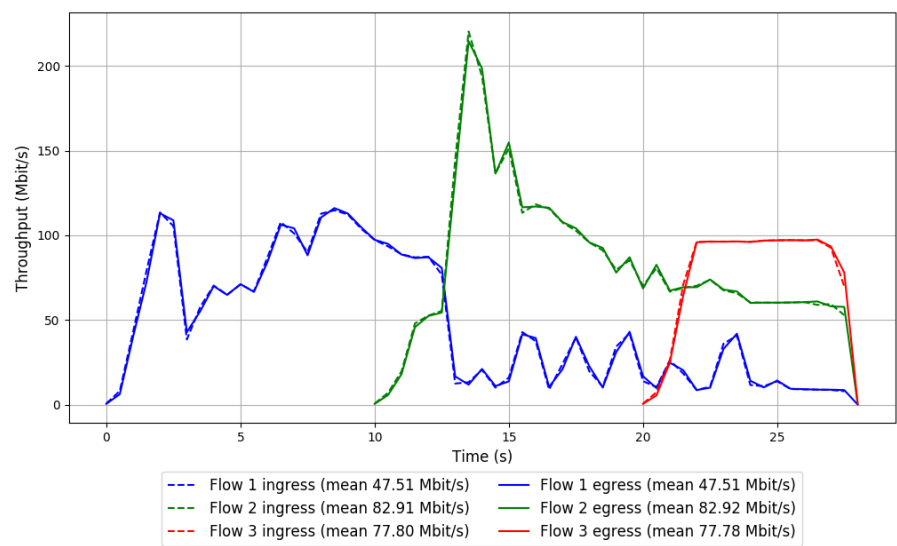
-- Flow 3:

Average throughput: 77.78 Mbit/s

95th percentile per-packet one-way delay: 53.132 ms

Loss rate: 0.02%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-17 03:00:22

End at: 2017-11-17 03:00:52

Below is generated by plot.py at 2017-11-17 05:35:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.27 Mbit/s

95th percentile per-packet one-way delay: 53.683 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 64.75 Mbit/s

95th percentile per-packet one-way delay: 53.082 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 56.32 Mbit/s

95th percentile per-packet one-way delay: 53.859 ms

Loss rate: 0.01%

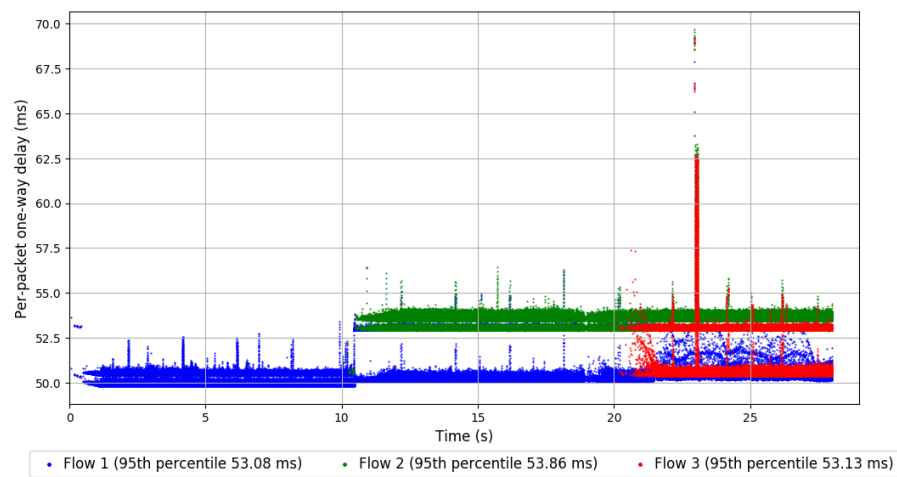
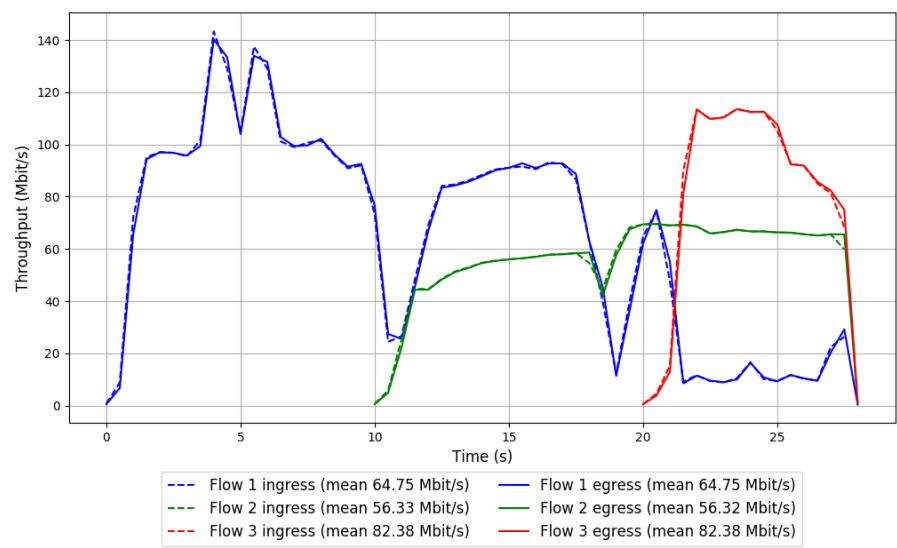
-- Flow 3:

Average throughput: 82.38 Mbit/s

95th percentile per-packet one-way delay: 53.127 ms

Loss rate: 0.02%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-17 03:12:15

End at: 2017-11-17 03:12:45

Below is generated by plot.py at 2017-11-17 05:35:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.63 Mbit/s

95th percentile per-packet one-way delay: 53.716 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 77.67 Mbit/s

95th percentile per-packet one-way delay: 53.602 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 58.86 Mbit/s

95th percentile per-packet one-way delay: 53.929 ms

Loss rate: 0.04%

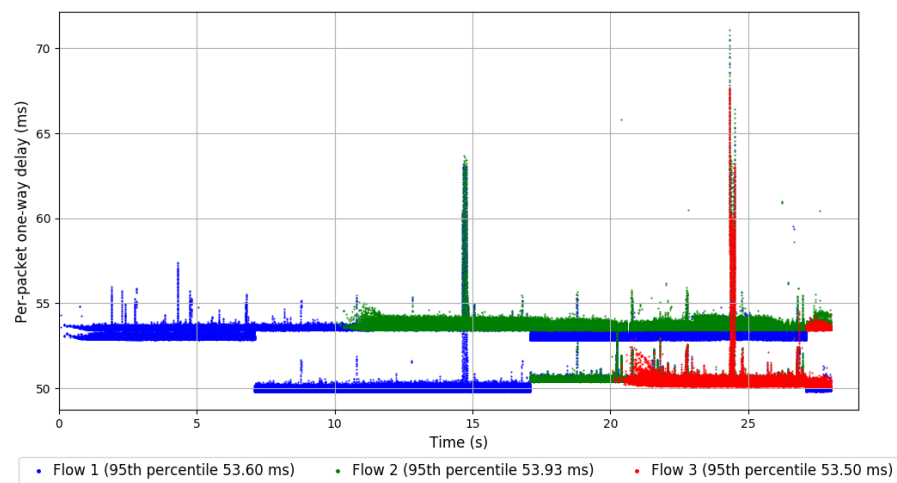
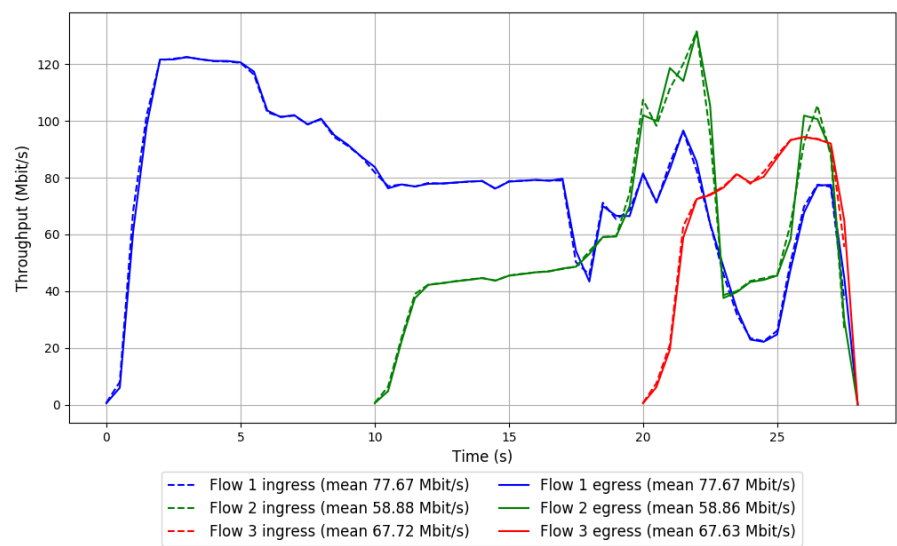
-- Flow 3:

Average throughput: 67.63 Mbit/s

95th percentile per-packet one-way delay: 53.499 ms

Loss rate: 0.12%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-17 03:24:38

End at: 2017-11-17 03:25:08

Below is generated by plot.py at 2017-11-17 05:35:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.02 Mbit/s

95th percentile per-packet one-way delay: 53.622 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 73.32 Mbit/s

95th percentile per-packet one-way delay: 53.631 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 60.70 Mbit/s

95th percentile per-packet one-way delay: 53.702 ms

Loss rate: 0.00%

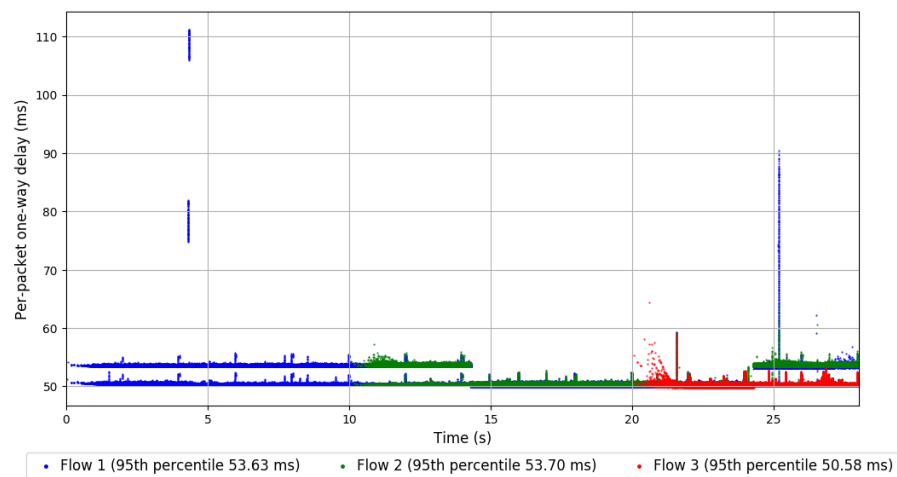
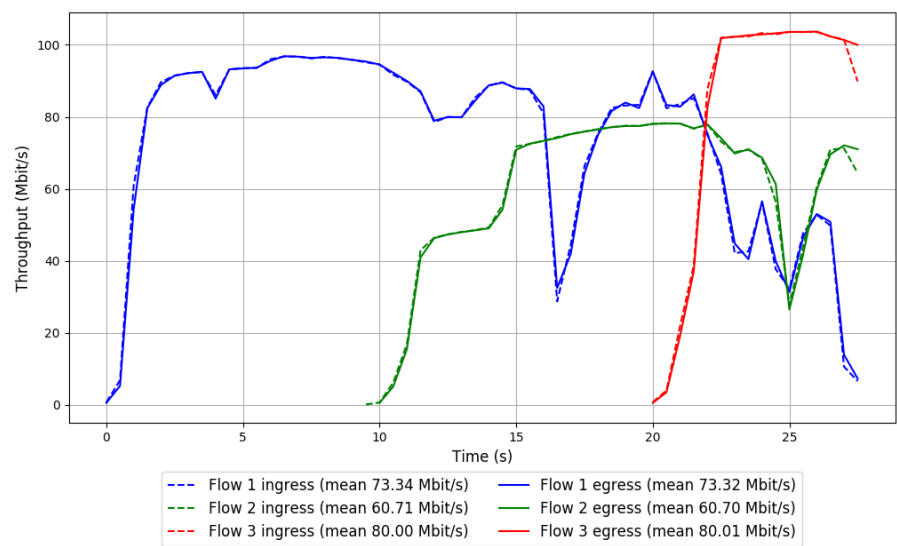
-- Flow 3:

Average throughput: 80.01 Mbit/s

95th percentile per-packet one-way delay: 50.577 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

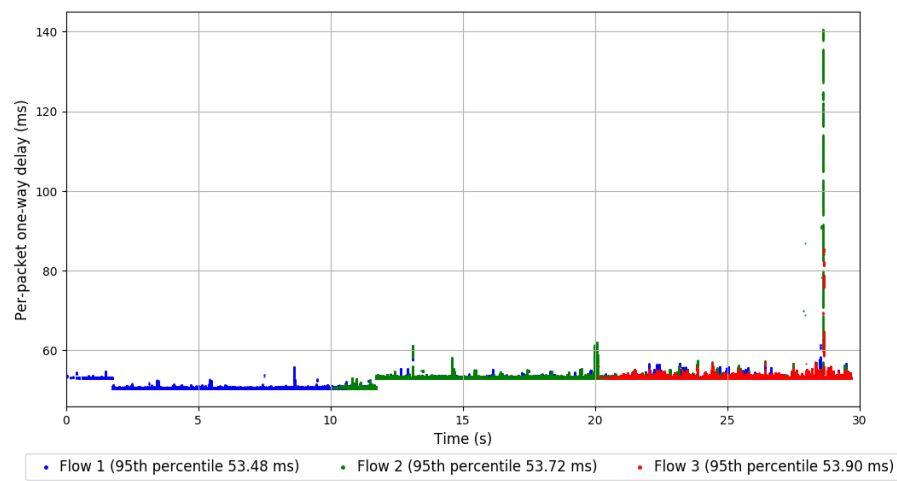
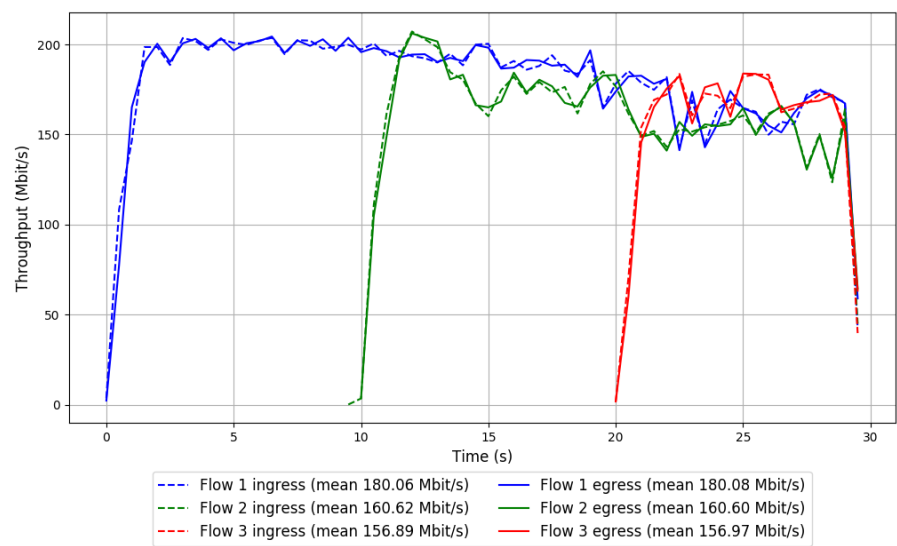


```
Run 1: Statistics of Indigo

Start at: 2017-11-17 01:46:22
End at: 2017-11-17 01:46:52

# Below is generated by plot.py at 2017-11-17 05:38:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 337.25 Mbit/s
95th percentile per-packet one-way delay: 53.633 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 180.08 Mbit/s
95th percentile per-packet one-way delay: 53.483 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 160.60 Mbit/s
95th percentile per-packet one-way delay: 53.724 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 156.97 Mbit/s
95th percentile per-packet one-way delay: 53.902 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link

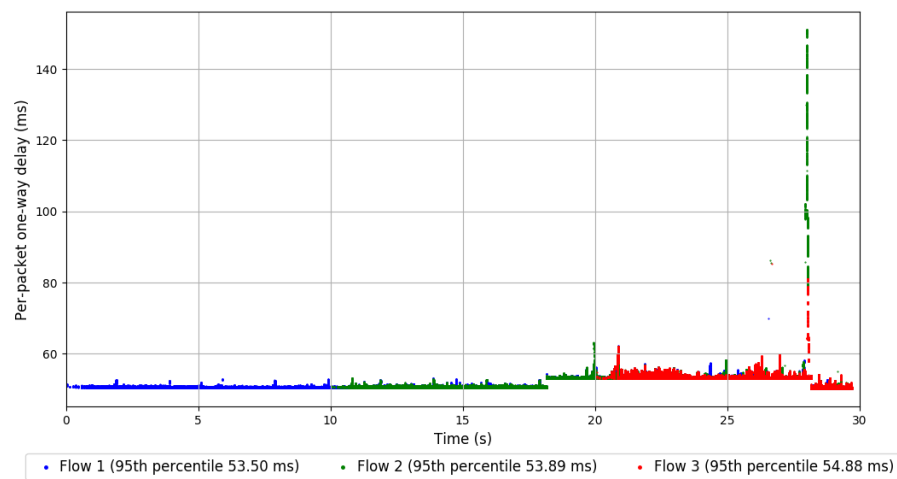
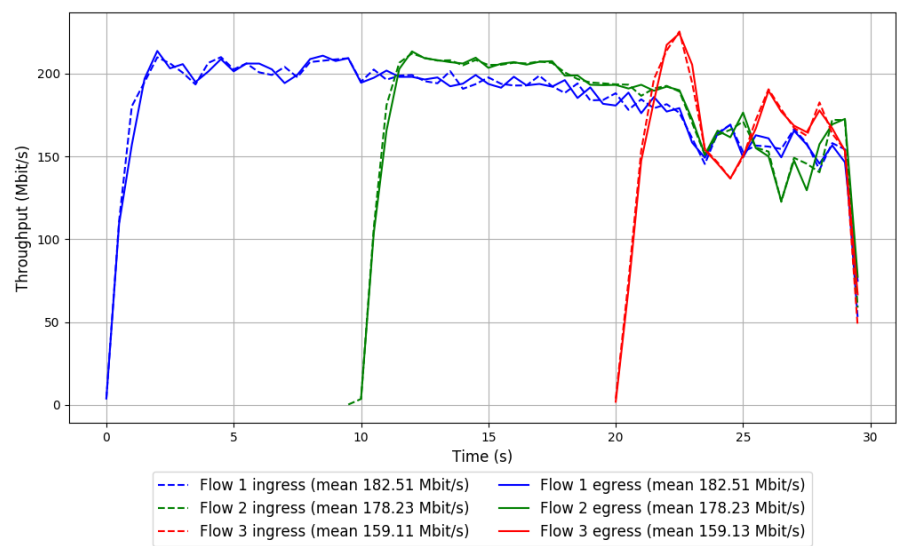


```
Run 2: Statistics of Indigo

Start at: 2017-11-17 01:58:26
End at: 2017-11-17 01:58:56

# Below is generated by plot.py at 2017-11-17 05:39:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 352.40 Mbit/s
95th percentile per-packet one-way delay: 53.937 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 182.51 Mbit/s
95th percentile per-packet one-way delay: 53.504 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 178.23 Mbit/s
95th percentile per-packet one-way delay: 53.892 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 159.13 Mbit/s
95th percentile per-packet one-way delay: 54.881 ms
Loss rate: 0.02%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-17 02:10:21

End at: 2017-11-17 02:10:51

Below is generated by plot.py at 2017-11-17 05:39:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 327.26 Mbit/s

95th percentile per-packet one-way delay: 55.427 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 176.66 Mbit/s

95th percentile per-packet one-way delay: 54.466 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 155.97 Mbit/s

95th percentile per-packet one-way delay: 55.609 ms

Loss rate: 0.03%

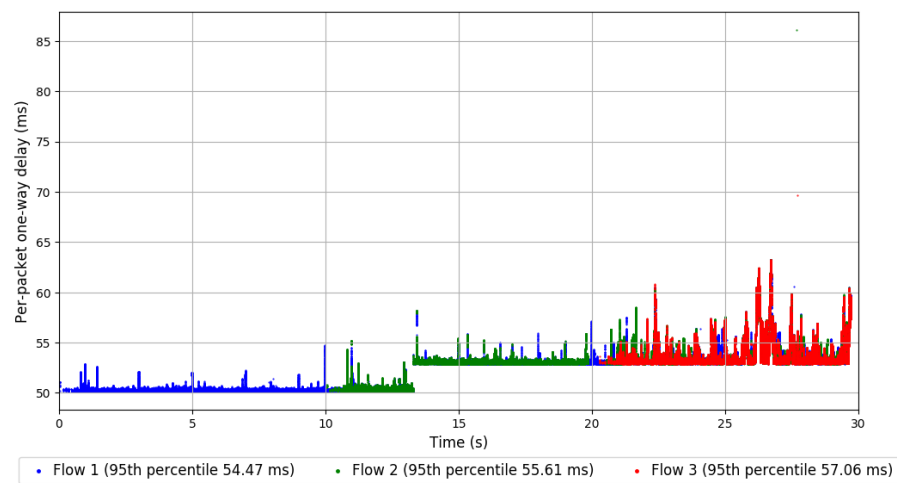
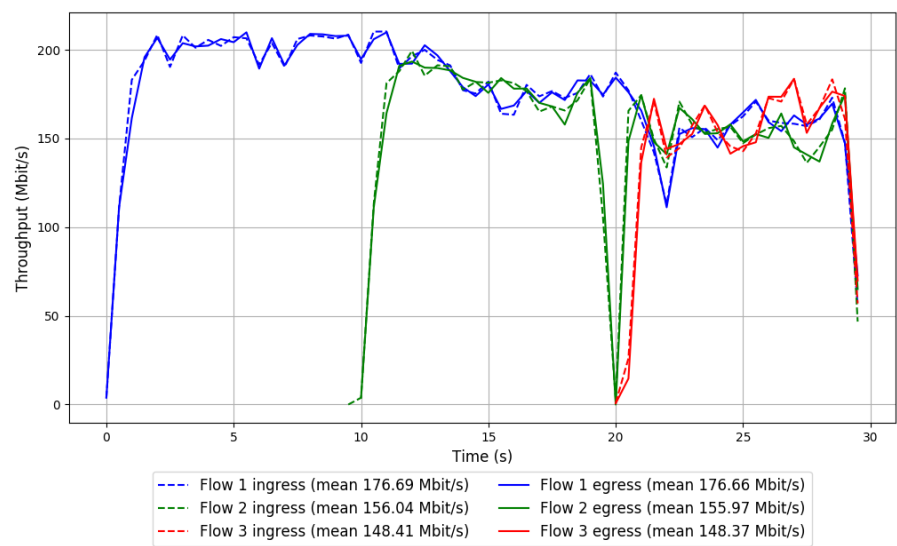
-- Flow 3:

Average throughput: 148.37 Mbit/s

95th percentile per-packet one-way delay: 57.063 ms

Loss rate: 0.03%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-17 02:22:24

End at: 2017-11-17 02:22:54

Below is generated by plot.py at 2017-11-17 05:40:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 352.58 Mbit/s

95th percentile per-packet one-way delay: 53.053 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 188.37 Mbit/s

95th percentile per-packet one-way delay: 53.076 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 171.86 Mbit/s

95th percentile per-packet one-way delay: 51.711 ms

Loss rate: 0.00%

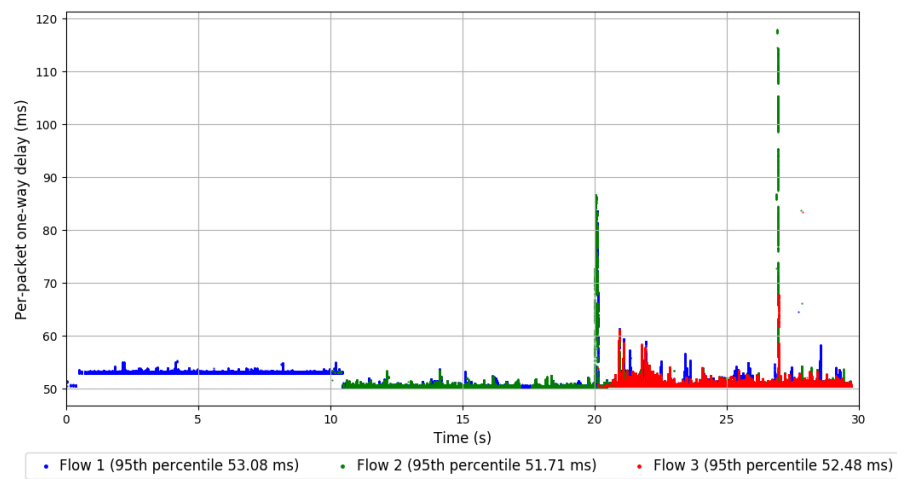
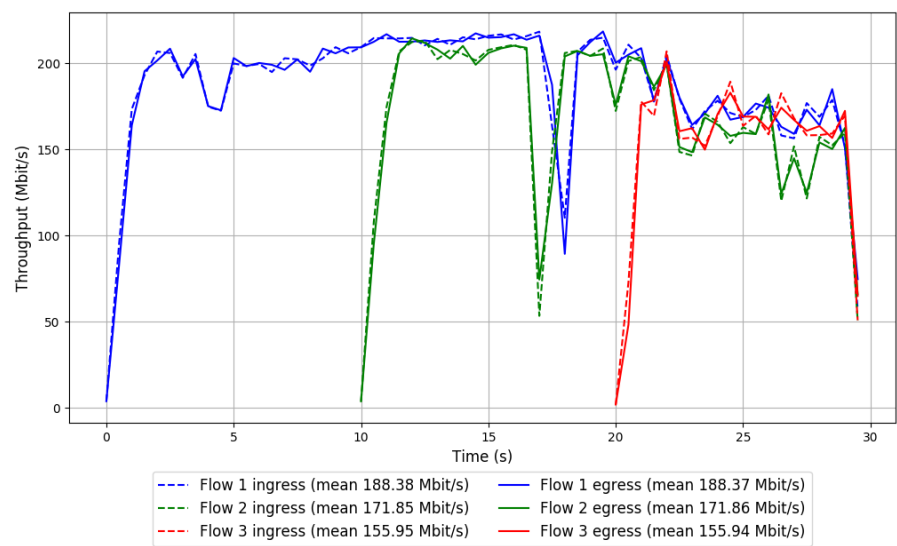
-- Flow 3:

Average throughput: 155.94 Mbit/s

95th percentile per-packet one-way delay: 52.480 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-17 02:34:08

End at: 2017-11-17 02:34:38

Below is generated by plot.py at 2017-11-17 05:40:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 355.99 Mbit/s

95th percentile per-packet one-way delay: 53.010 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 186.96 Mbit/s

95th percentile per-packet one-way delay: 53.036 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 178.79 Mbit/s

95th percentile per-packet one-way delay: 51.841 ms

Loss rate: 0.00%

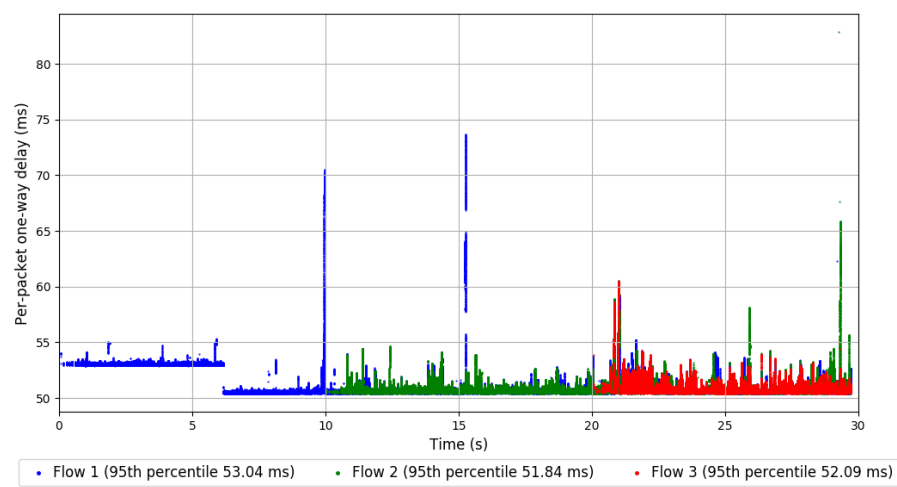
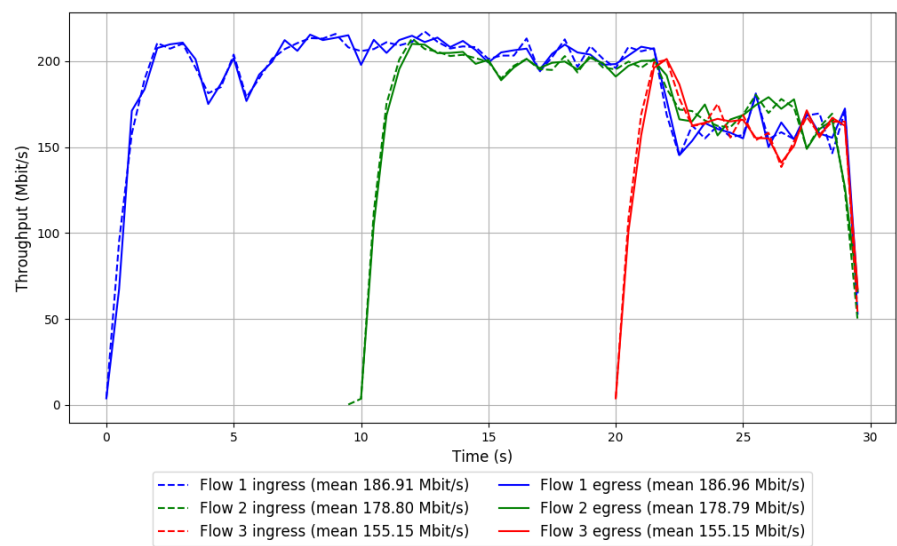
-- Flow 3:

Average throughput: 155.15 Mbit/s

95th percentile per-packet one-way delay: 52.089 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-17 02:46:12

End at: 2017-11-17 02:46:42

Below is generated by plot.py at 2017-11-17 05:40:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.15 Mbit/s

95th percentile per-packet one-way delay: 53.497 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 168.38 Mbit/s

95th percentile per-packet one-way delay: 53.429 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 149.45 Mbit/s

95th percentile per-packet one-way delay: 53.471 ms

Loss rate: 0.00%

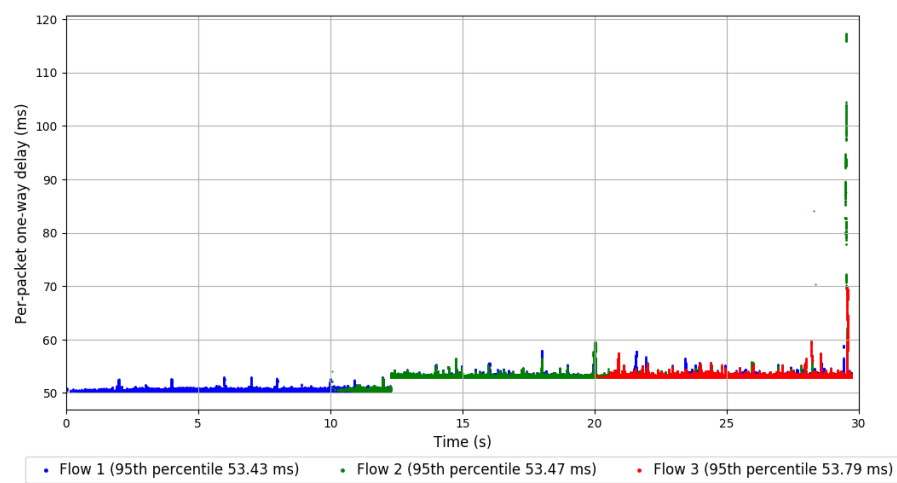
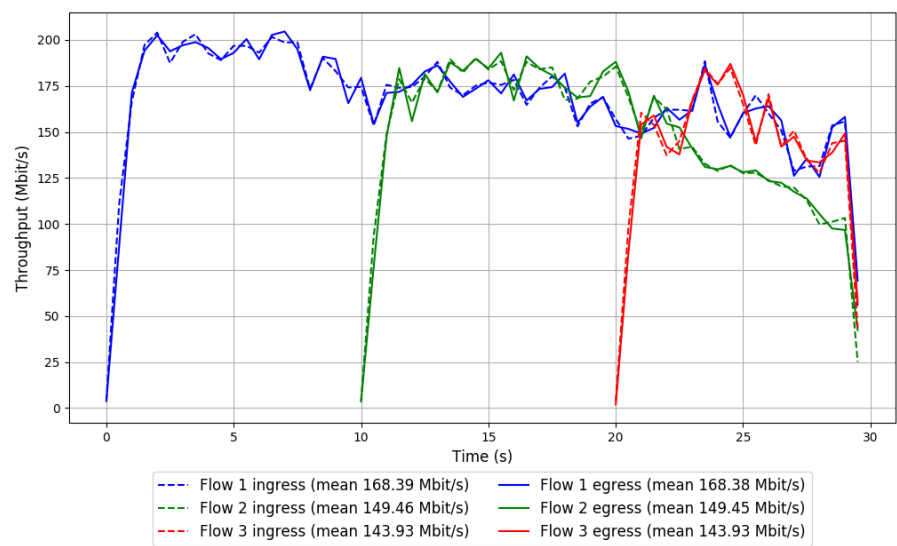
-- Flow 3:

Average throughput: 143.93 Mbit/s

95th percentile per-packet one-way delay: 53.786 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-17 02:58:24

End at: 2017-11-17 02:58:54

Below is generated by plot.py at 2017-11-17 05:41:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 332.06 Mbit/s

95th percentile per-packet one-way delay: 53.206 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 181.06 Mbit/s

95th percentile per-packet one-way delay: 53.181 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 171.16 Mbit/s

95th percentile per-packet one-way delay: 53.283 ms

Loss rate: 0.00%

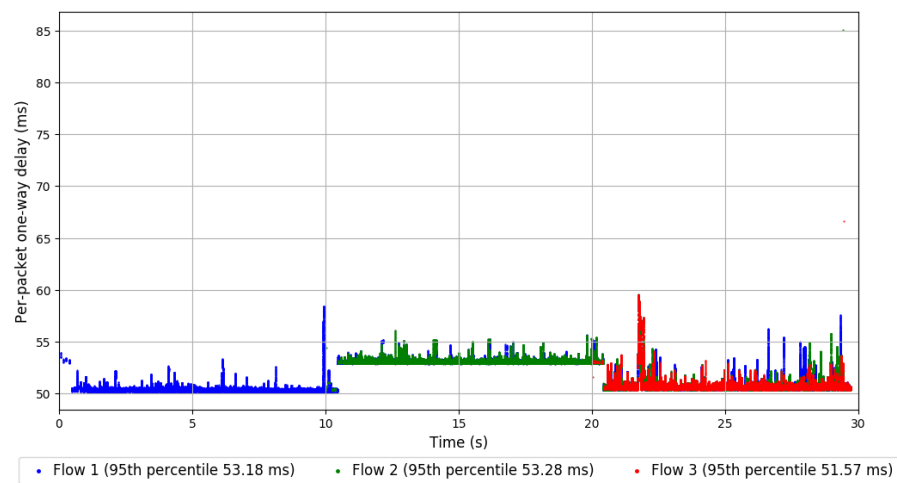
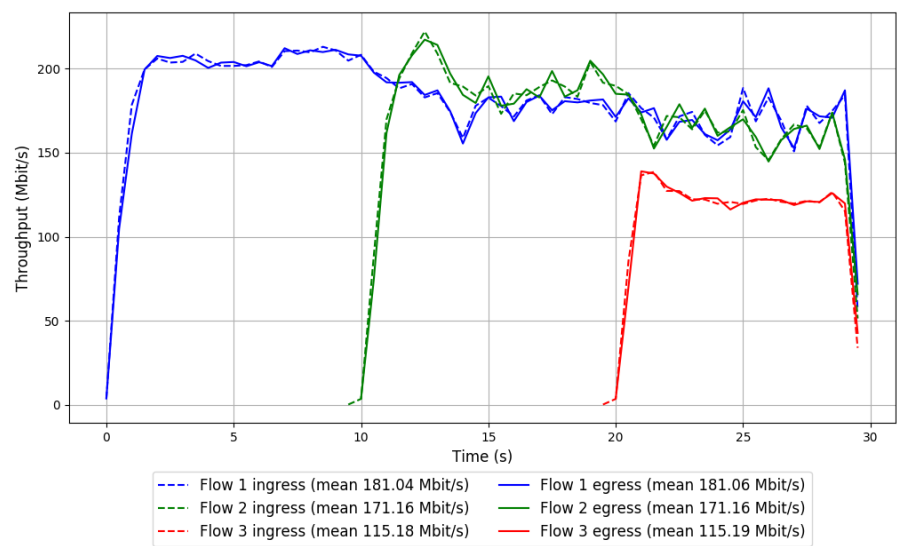
-- Flow 3:

Average throughput: 115.19 Mbit/s

95th percentile per-packet one-way delay: 51.572 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-17 03:10:16

End at: 2017-11-17 03:10:46

Below is generated by plot.py at 2017-11-17 05:41:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 332.16 Mbit/s

95th percentile per-packet one-way delay: 53.755 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 174.12 Mbit/s

95th percentile per-packet one-way delay: 53.726 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 170.09 Mbit/s

95th percentile per-packet one-way delay: 53.852 ms

Loss rate: 0.00%

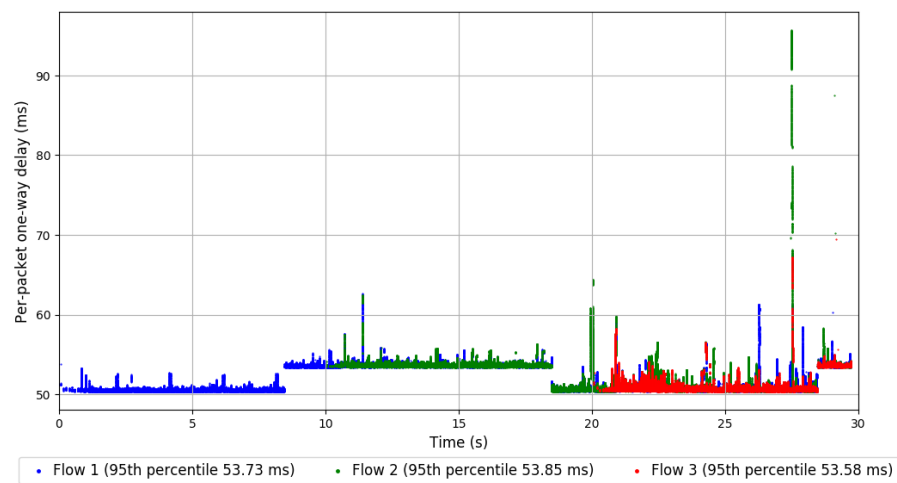
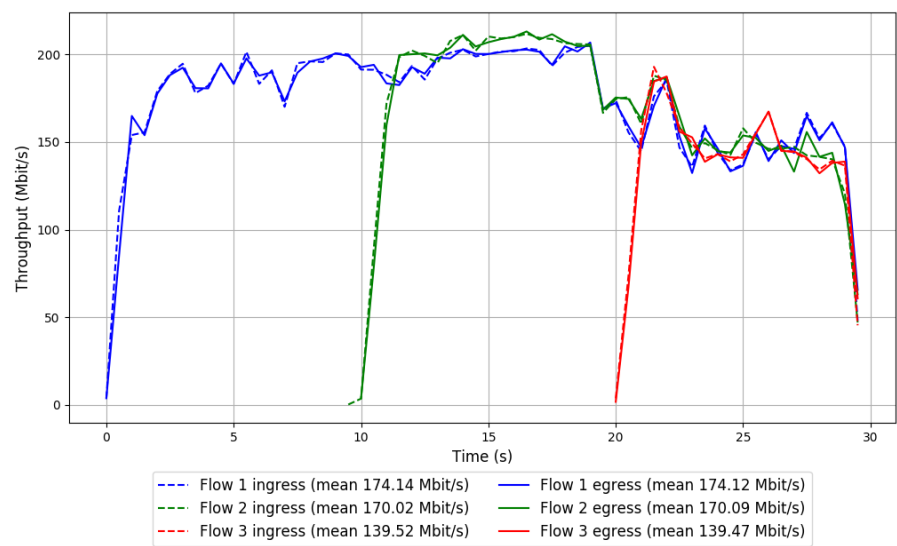
-- Flow 3:

Average throughput: 139.47 Mbit/s

95th percentile per-packet one-way delay: 53.584 ms

Loss rate: 0.01%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-17 03:22:39

End at: 2017-11-17 03:23:09

Below is generated by plot.py at 2017-11-17 05:44:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 345.00 Mbit/s

95th percentile per-packet one-way delay: 54.330 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 180.22 Mbit/s

95th percentile per-packet one-way delay: 54.091 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 174.54 Mbit/s

95th percentile per-packet one-way delay: 54.465 ms

Loss rate: 0.00%

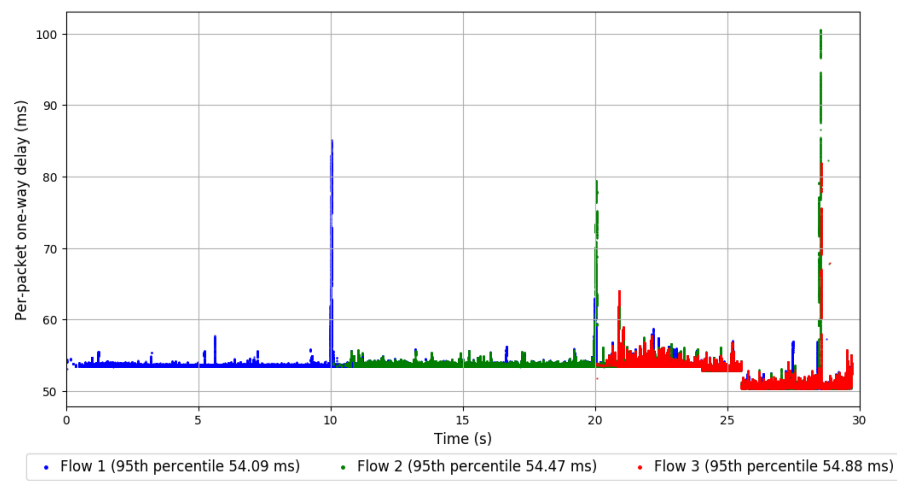
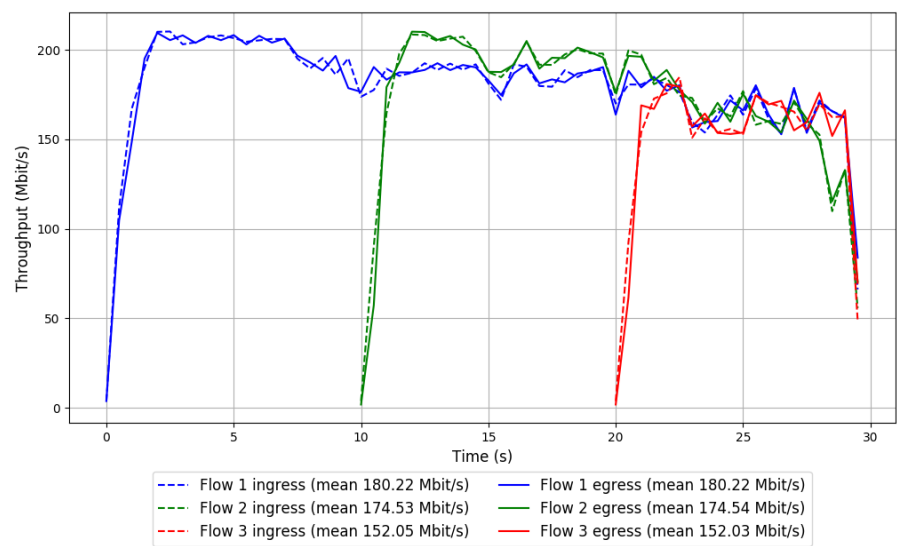
-- Flow 3:

Average throughput: 152.03 Mbit/s

95th percentile per-packet one-way delay: 54.883 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-11-17 03:34:44

End at: 2017-11-17 03:35:14

Below is generated by plot.py at 2017-11-17 05:45:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 353.32 Mbit/s

95th percentile per-packet one-way delay: 53.861 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 184.70 Mbit/s

95th percentile per-packet one-way delay: 53.560 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 176.72 Mbit/s

95th percentile per-packet one-way delay: 54.001 ms

Loss rate: 0.00%

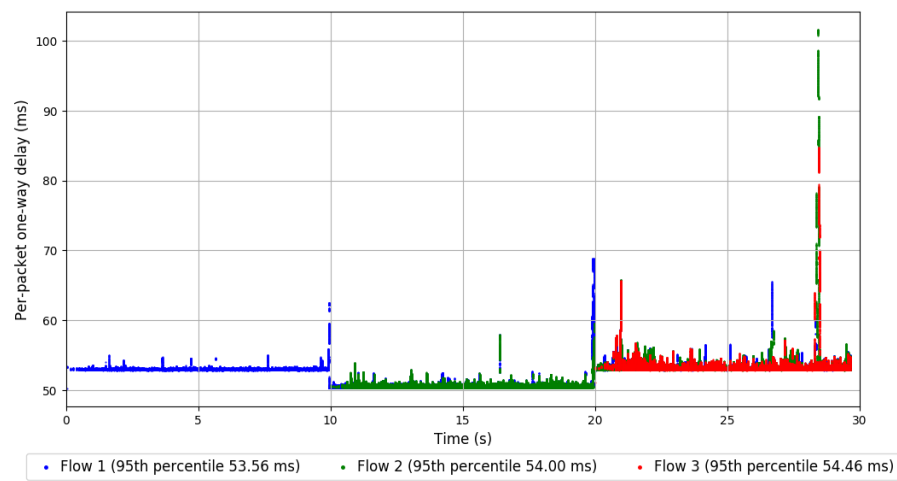
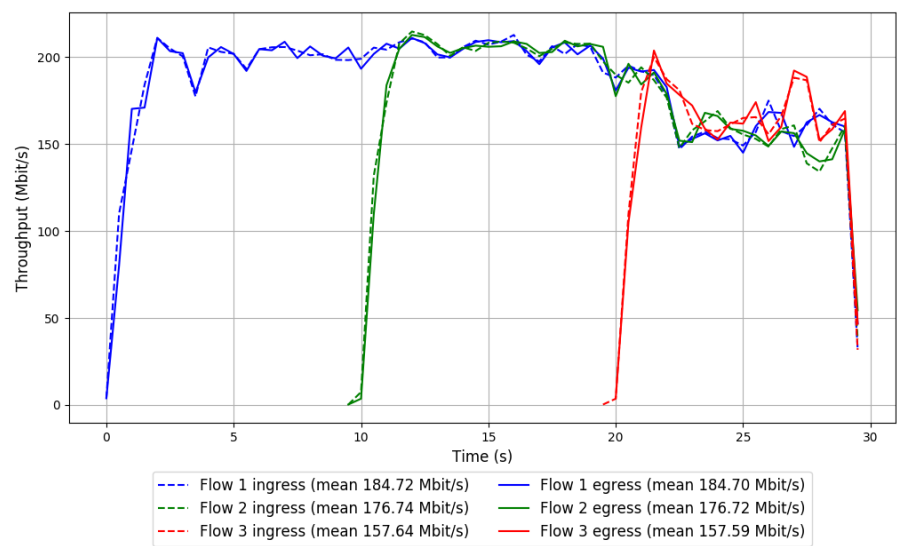
-- Flow 3:

Average throughput: 157.59 Mbit/s

95th percentile per-packet one-way delay: 54.463 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

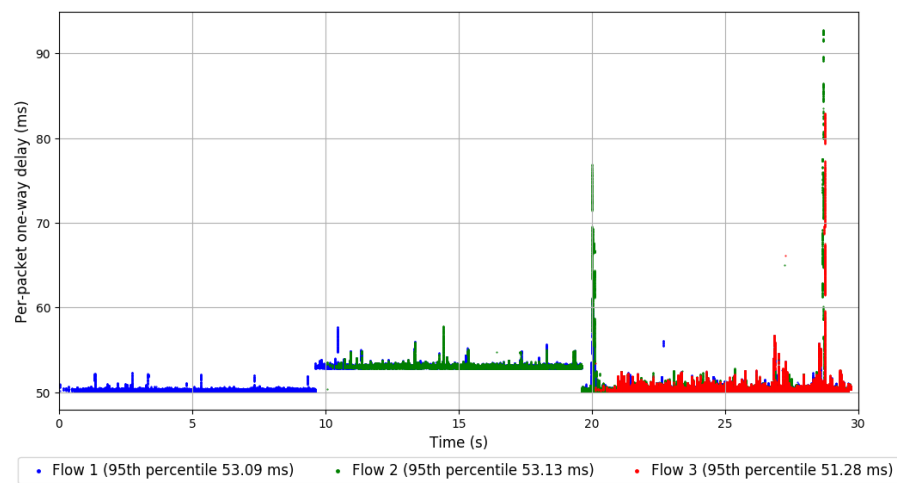
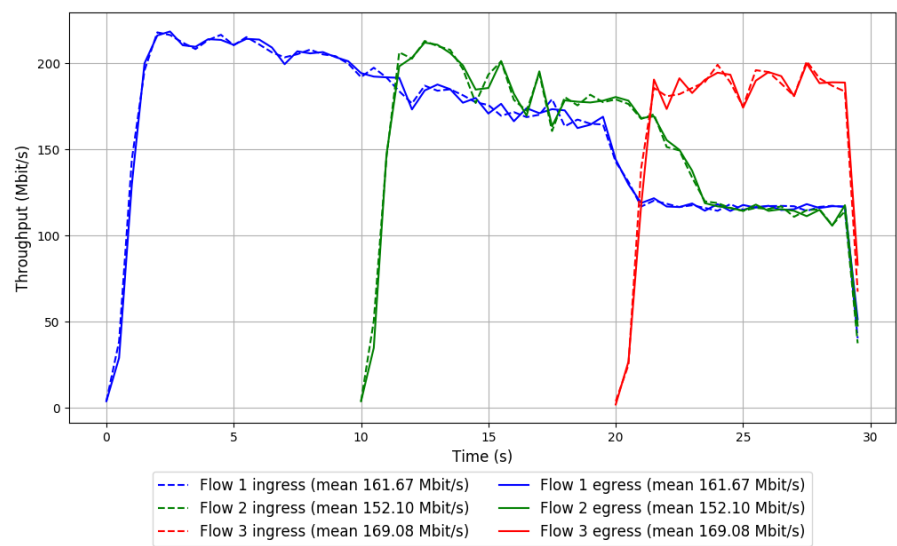


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-17 01:44:34
End at: 2017-11-17 01:45:04

# Below is generated by plot.py at 2017-11-17 05:45:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 317.08 Mbit/s
95th percentile per-packet one-way delay: 53.091 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 161.67 Mbit/s
95th percentile per-packet one-way delay: 53.090 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 152.10 Mbit/s
95th percentile per-packet one-way delay: 53.133 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 169.08 Mbit/s
95th percentile per-packet one-way delay: 51.278 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

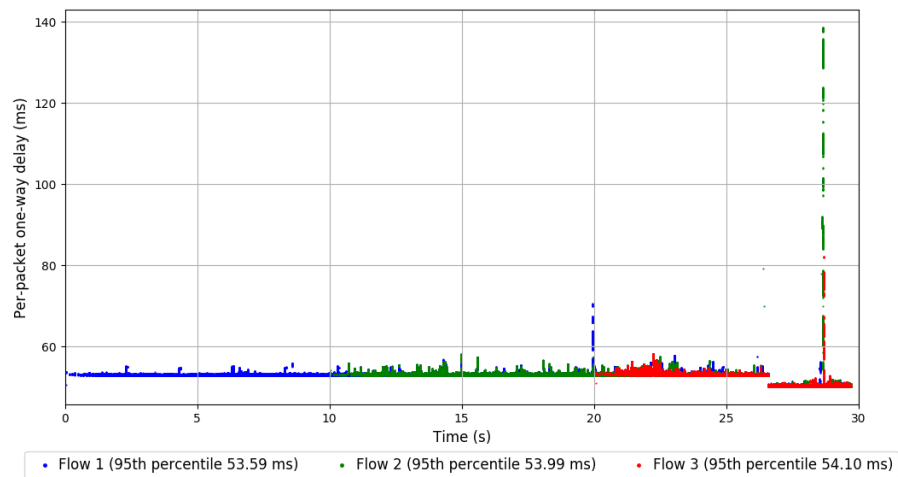
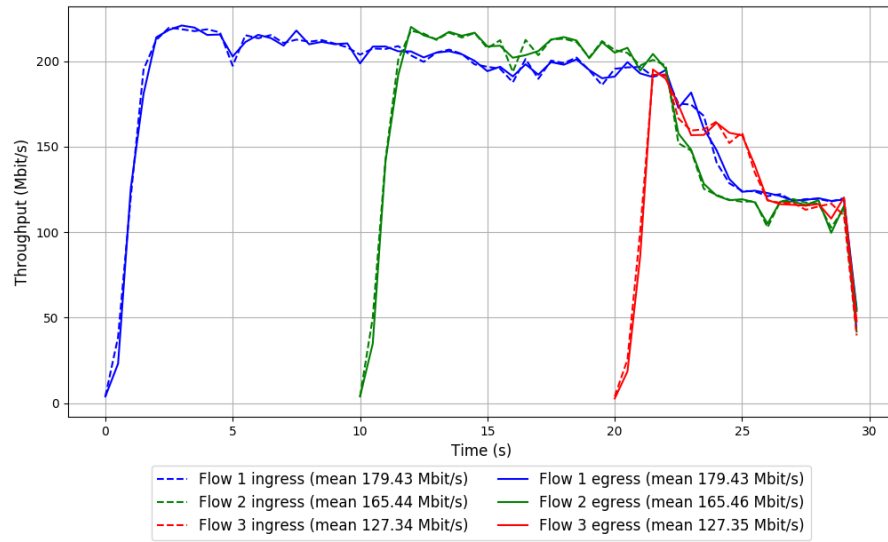


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-17 01:56:37
End at: 2017-11-17 01:57:07

# Below is generated by plot.py at 2017-11-17 05:46:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 330.48 Mbit/s
95th percentile per-packet one-way delay: 53.794 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 179.43 Mbit/s
95th percentile per-packet one-way delay: 53.594 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 165.46 Mbit/s
95th percentile per-packet one-way delay: 53.986 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 127.35 Mbit/s
95th percentile per-packet one-way delay: 54.097 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-11-17 02:08:34

End at: 2017-11-17 02:09:04

Below is generated by plot.py at 2017-11-17 05:46:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 312.62 Mbit/s

95th percentile per-packet one-way delay: 53.470 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 166.37 Mbit/s

95th percentile per-packet one-way delay: 53.318 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 167.47 Mbit/s

95th percentile per-packet one-way delay: 53.589 ms

Loss rate: 0.01%

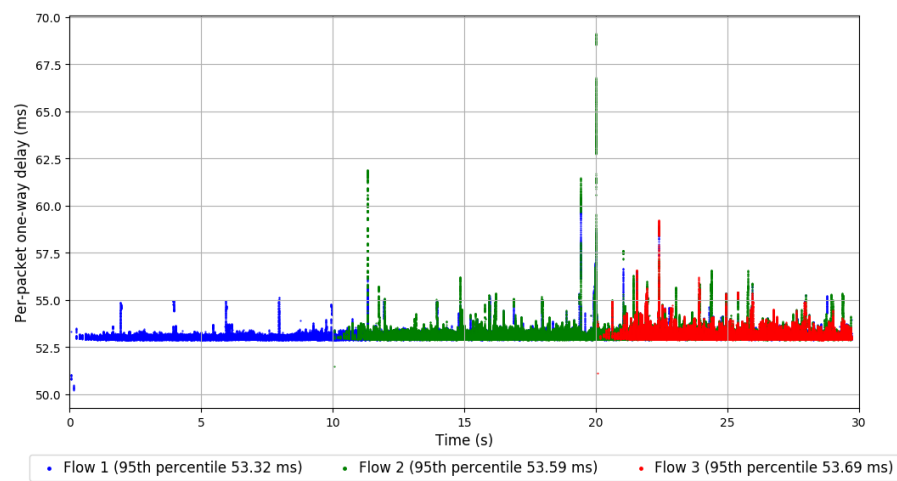
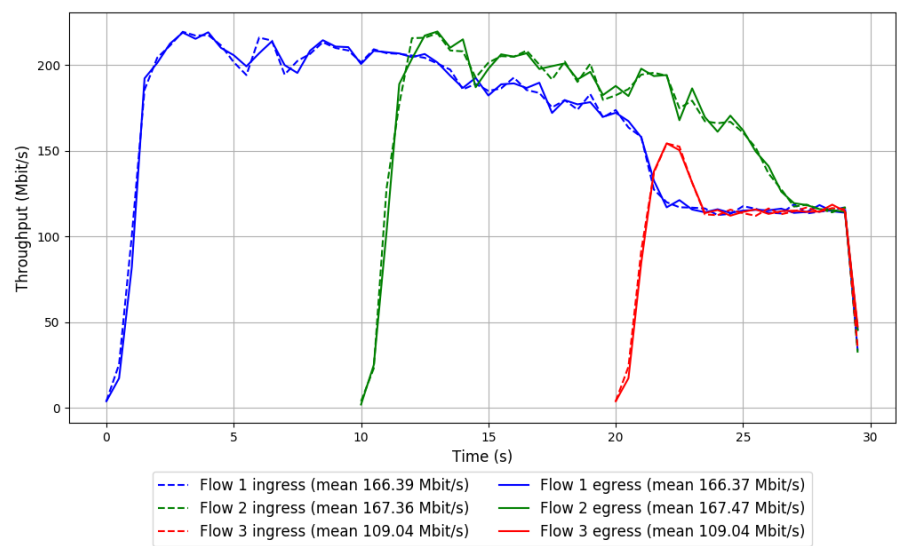
-- Flow 3:

Average throughput: 109.04 Mbit/s

95th percentile per-packet one-way delay: 53.685 ms

Loss rate: 0.01%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-11-17 02:20:35

End at: 2017-11-17 02:21:05

Below is generated by plot.py at 2017-11-17 05:46:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 331.47 Mbit/s

95th percentile per-packet one-way delay: 51.188 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 173.37 Mbit/s

95th percentile per-packet one-way delay: 50.976 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 162.30 Mbit/s

95th percentile per-packet one-way delay: 51.340 ms

Loss rate: 0.00%

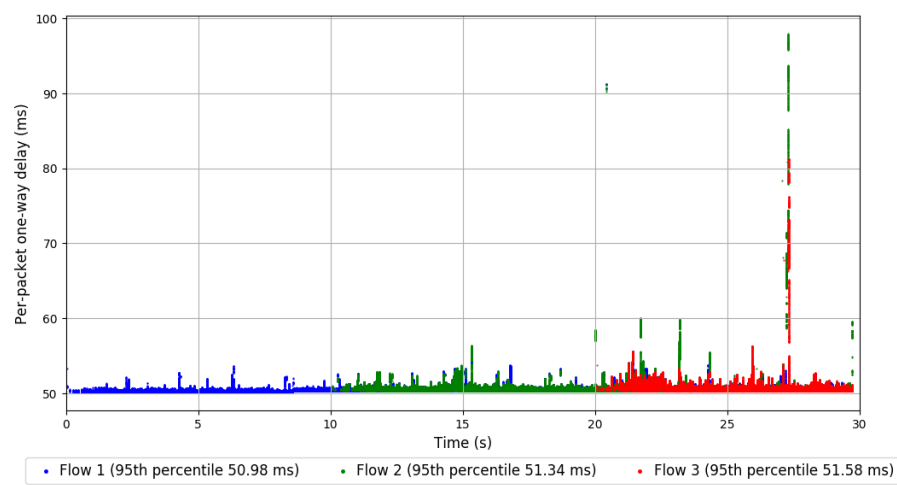
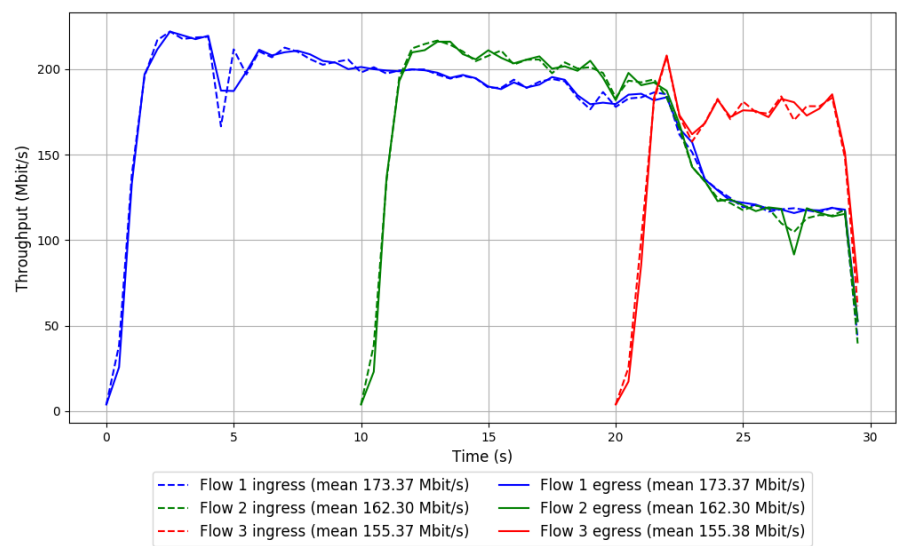
-- Flow 3:

Average throughput: 155.38 Mbit/s

95th percentile per-packet one-way delay: 51.582 ms

Loss rate: 0.00%

Run 4: Report of Indigo-calib — Data Link

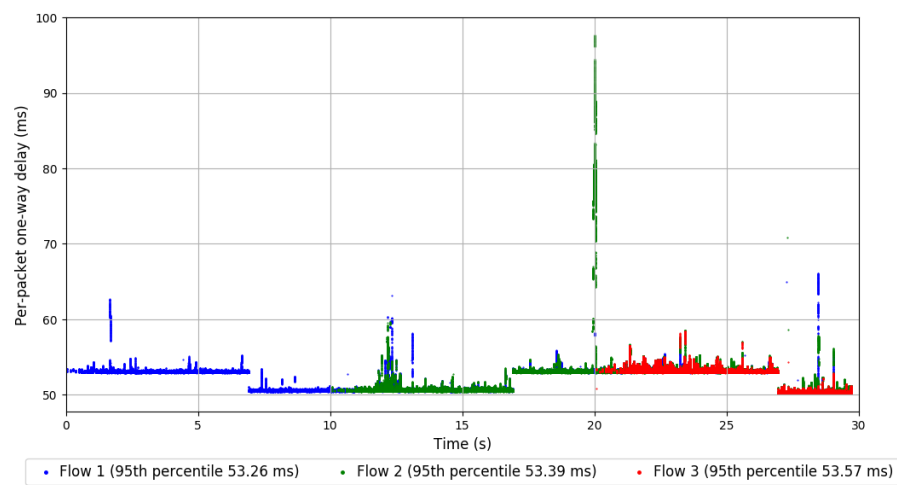
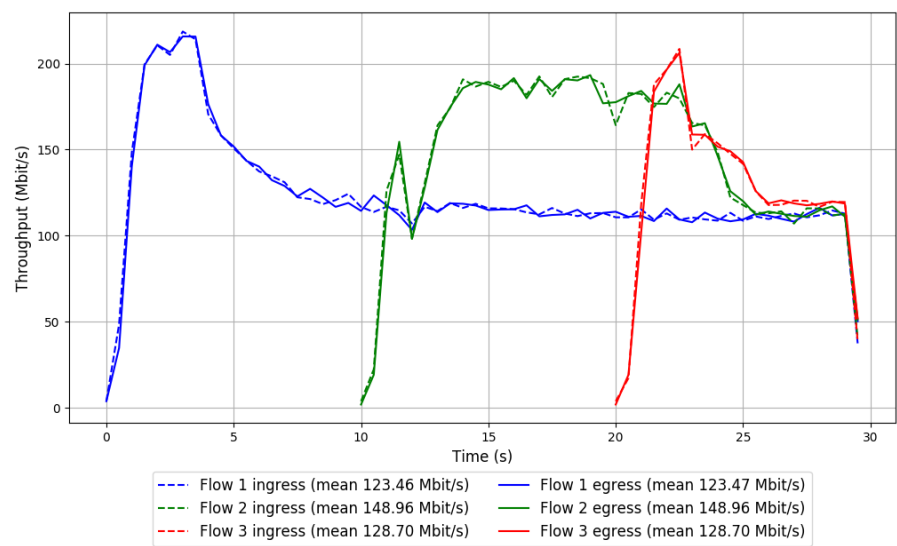


```
Run 5: Statistics of Indigo-calib

Start at: 2017-11-17 02:32:27
End at: 2017-11-17 02:32:57

# Below is generated by plot.py at 2017-11-17 05:46:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 263.99 Mbit/s
95th percentile per-packet one-way delay: 53.362 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 123.47 Mbit/s
95th percentile per-packet one-way delay: 53.256 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 148.96 Mbit/s
95th percentile per-packet one-way delay: 53.393 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 128.70 Mbit/s
95th percentile per-packet one-way delay: 53.570 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-11-17 02:44:25

End at: 2017-11-17 02:44:55

Below is generated by plot.py at 2017-11-17 05:47:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 315.11 Mbit/s

95th percentile per-packet one-way delay: 53.629 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 163.76 Mbit/s

95th percentile per-packet one-way delay: 53.469 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 166.70 Mbit/s

95th percentile per-packet one-way delay: 53.766 ms

Loss rate: 0.00%

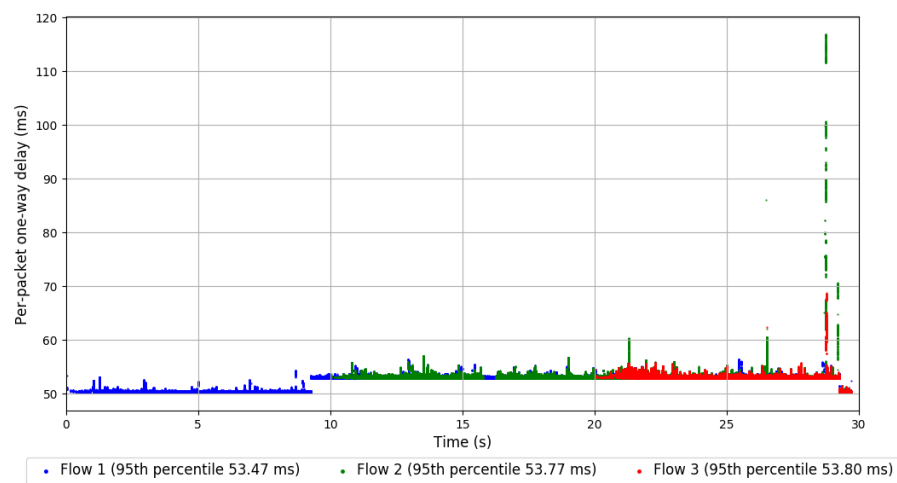
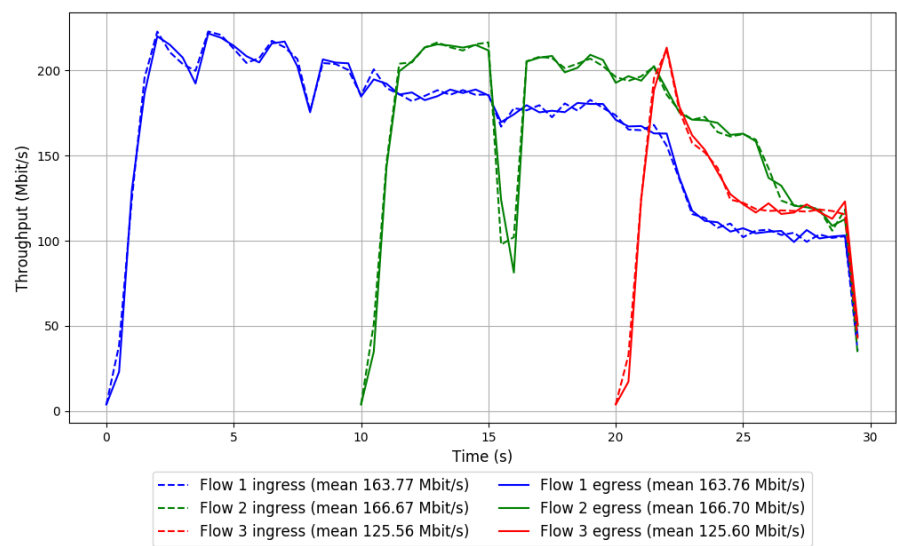
-- Flow 3:

Average throughput: 125.60 Mbit/s

95th percentile per-packet one-way delay: 53.798 ms

Loss rate: 0.00%

Run 6: Report of Indigo-calib — Data Link

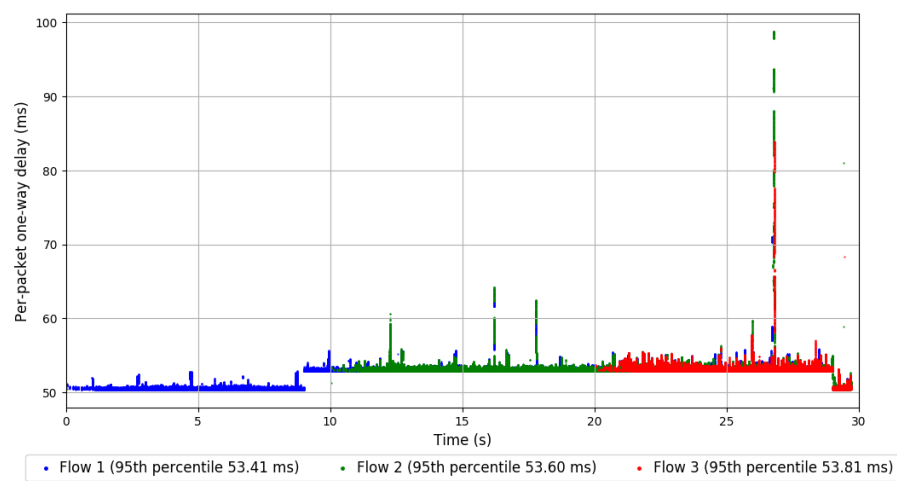
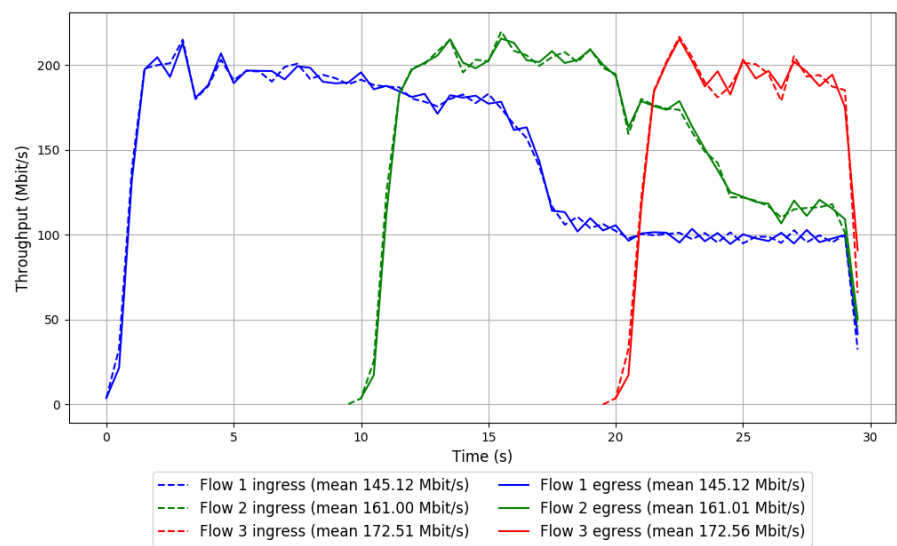


```
Run 7: Statistics of Indigo-calib

Start at: 2017-11-17 02:56:35
End at: 2017-11-17 02:57:05

# Below is generated by plot.py at 2017-11-17 05:48:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 308.06 Mbit/s
95th percentile per-packet one-way delay: 53.548 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 145.12 Mbit/s
95th percentile per-packet one-way delay: 53.407 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 161.01 Mbit/s
95th percentile per-packet one-way delay: 53.605 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 172.56 Mbit/s
95th percentile per-packet one-way delay: 53.807 ms
Loss rate: 0.01%
```


Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-17 03:08:28

End at: 2017-11-17 03:08:58

Below is generated by plot.py at 2017-11-17 05:48:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 333.30 Mbit/s

95th percentile per-packet one-way delay: 53.607 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 170.06 Mbit/s

95th percentile per-packet one-way delay: 53.567 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 163.43 Mbit/s

95th percentile per-packet one-way delay: 53.577 ms

Loss rate: 0.01%

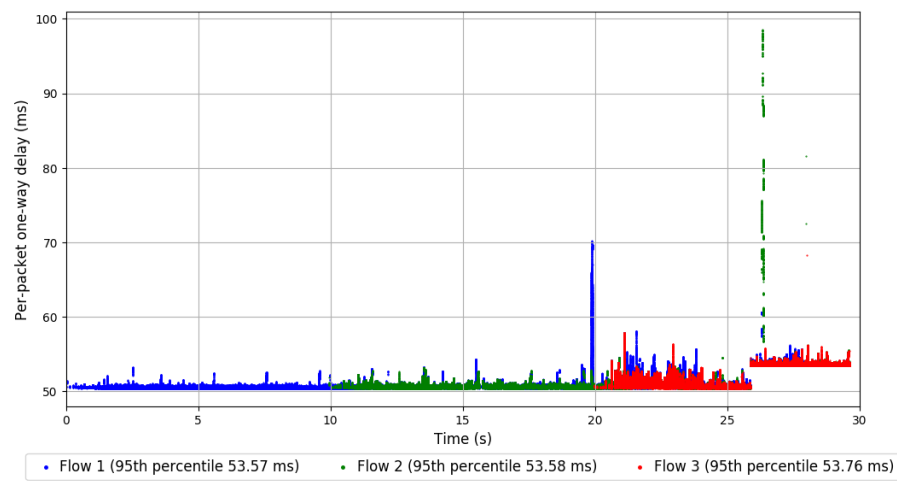
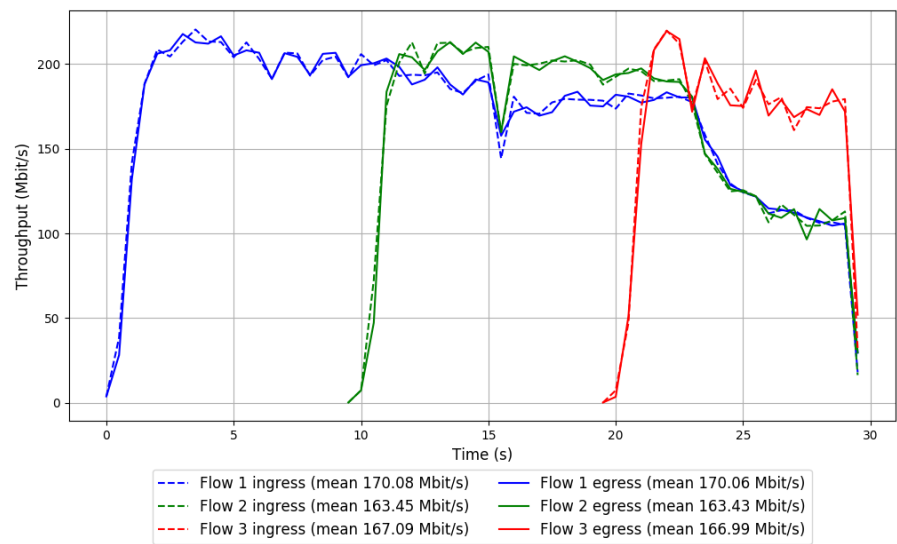
-- Flow 3:

Average throughput: 166.99 Mbit/s

95th percentile per-packet one-way delay: 53.755 ms

Loss rate: 0.02%

Run 8: Report of Indigo-calib — Data Link

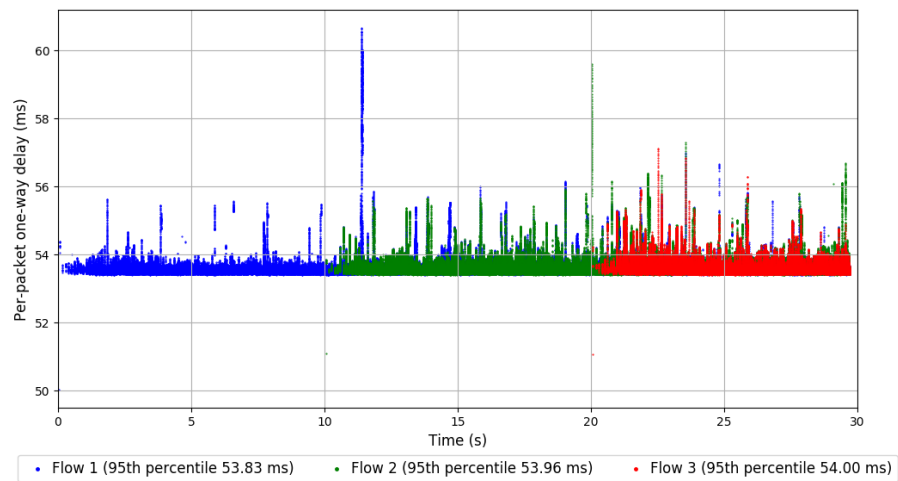
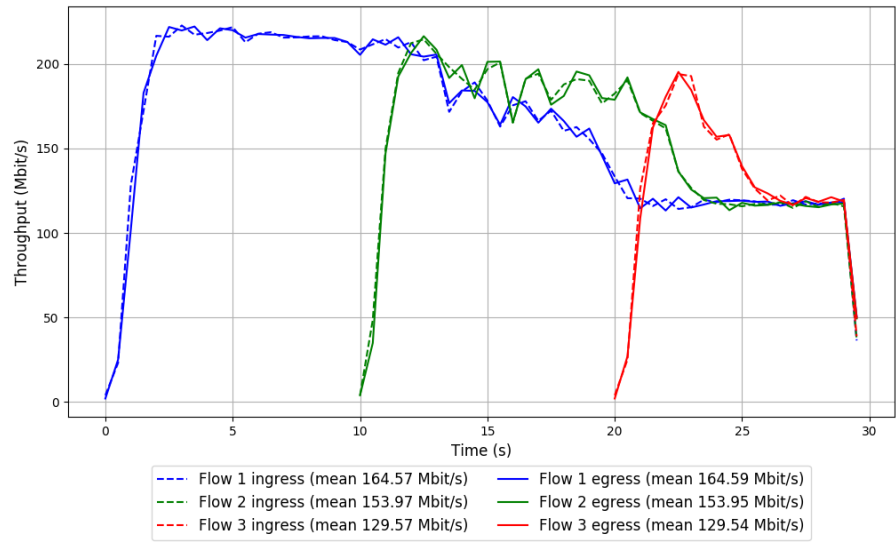


```
Run 9: Statistics of Indigo-calib

Start at: 2017-11-17 03:20:54
End at: 2017-11-17 03:21:24

# Below is generated by plot.py at 2017-11-17 05:48:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 308.69 Mbit/s
95th percentile per-packet one-way delay: 53.907 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 164.59 Mbit/s
95th percentile per-packet one-way delay: 53.831 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 153.95 Mbit/s
95th percentile per-packet one-way delay: 53.964 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 129.54 Mbit/s
95th percentile per-packet one-way delay: 54.001 ms
Loss rate: 0.00%
```

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-17 03:32:55

End at: 2017-11-17 03:33:25

Below is generated by plot.py at 2017-11-17 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 342.20 Mbit/s

95th percentile per-packet one-way delay: 53.207 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 176.07 Mbit/s

95th percentile per-packet one-way delay: 53.227 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 171.13 Mbit/s

95th percentile per-packet one-way delay: 53.247 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 161.97 Mbit/s

95th percentile per-packet one-way delay: 51.562 ms

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

