

Pantheon Report

Generated at 2017-10-13 00:18:42 (UTC).

Data path: GCE Iowa 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.

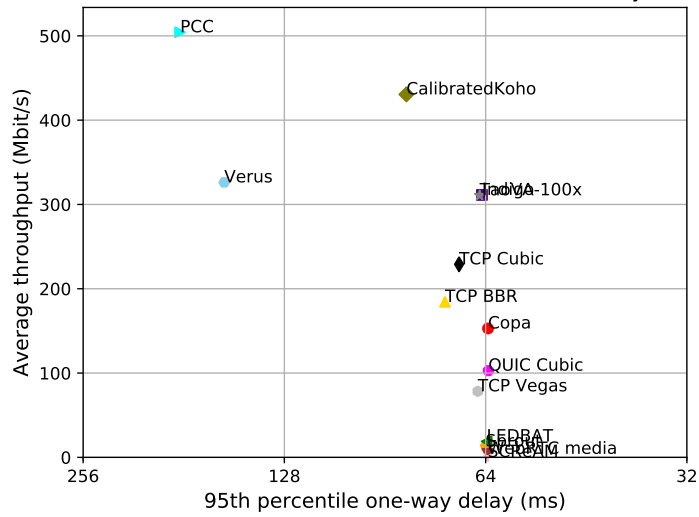
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

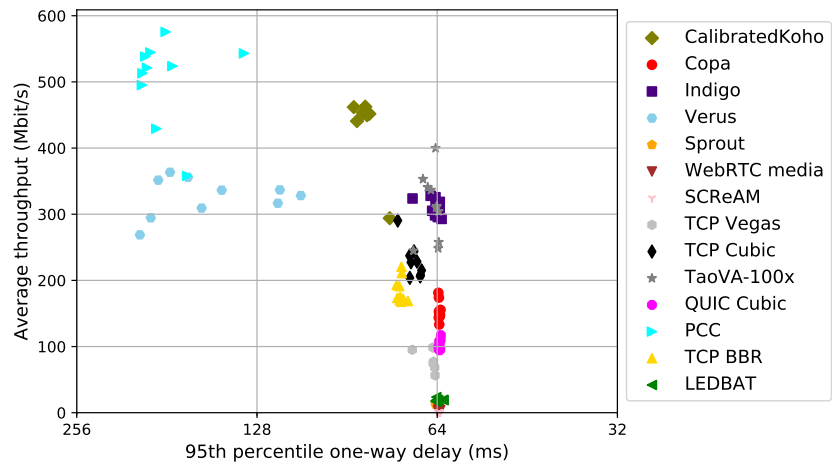
Git summary:

```
branch: indigos @ 45998d6404be7c5106956530acb9cfc43bd06e7d
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 Iowa 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 Iowa 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	85.64	99.69	98.44	73.05	73.86	74.40	0.03	0.01	0.00
TCP Cubic	9	111.46	118.72	110.20	69.49	70.00	70.80	0.04	0.04	0.04
LEDBAT	9	11.29	8.39	6.15	63.76	63.79	63.82	0.00	0.01	0.00
PCC	10	445.78	75.11	26.04	182.83	181.93	173.89	1.13	1.05	1.22
QUIC Cubic	10	53.15	53.28	43.99	62.81	62.39	62.47	0.00	0.00	0.00
SCReAM	10	0.22	0.22	0.22	63.14	62.95	62.44	0.00	0.00	0.00
WebRTC media	10	2.25	1.39	0.57	63.25	62.90	63.37	0.03	0.04	0.00
Sprout	10	6.53	6.51	6.15	64.03	64.00	64.03	0.00	0.00	0.00
TaoVA-100x	10	166.82	160.09	145.57	64.68	64.28	66.36	0.01	0.00	0.01
TCP Vegas	6	23.81	45.98	74.45	789.59	64.93	66.37	0.03	0.02	0.00
Verus	10	199.26	143.95	96.23	145.40	166.87	153.64	0.44	0.88	1.51
Copa	10	81.91	75.32	79.77	63.49	62.78	63.05	0.00	0.00	0.00
CalibratedKoho	7	293.93	191.08	16.99	525.70	85.14	81.79	0.02	0.06	0.43
Indigo	10	170.31	156.35	115.36	64.23	65.13	65.27	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2017-10-12 19:48:52

End at: 2017-10-12 19:49:22

Below is generated by plot.py at 2017-10-12 23:15:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 175.47 Mbit/s

95th percentile per-packet one-way delay: 73.836 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 87.70 Mbit/s

95th percentile per-packet one-way delay: 73.251 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 90.06 Mbit/s

95th percentile per-packet one-way delay: 73.586 ms

Loss rate: 0.00%

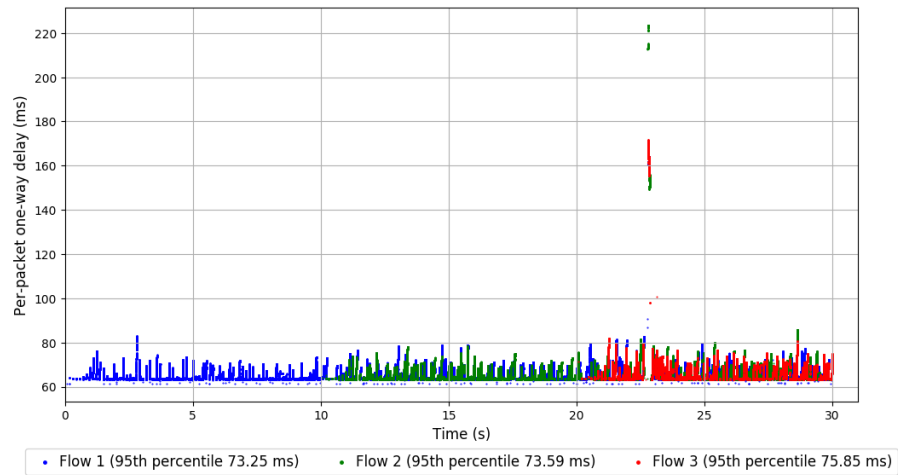
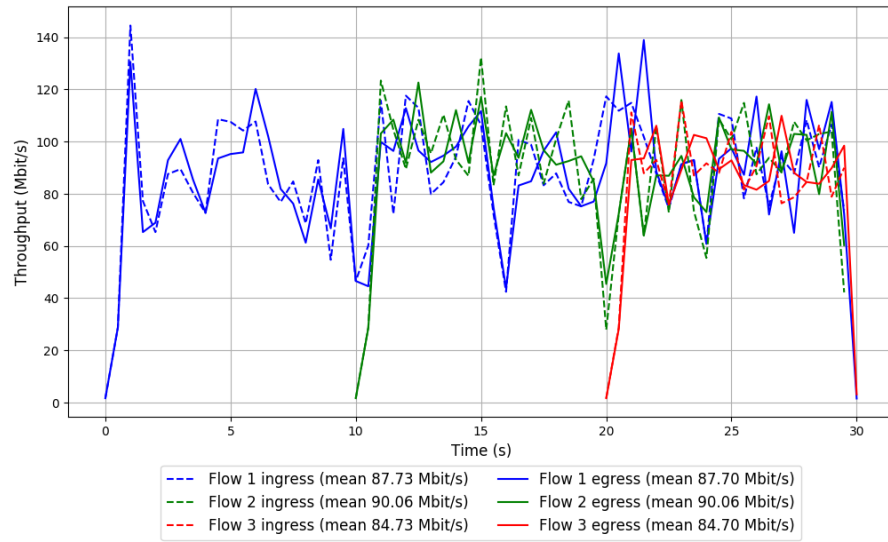
-- Flow 3:

Average throughput: 84.70 Mbit/s

95th percentile per-packet one-way delay: 75.852 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-10-12 20:01:35

End at: 2017-10-12 20:02:05

Below is generated by plot.py at 2017-10-12 23:15:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 193.08 Mbit/s

95th percentile per-packet one-way delay: 74.812 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 86.18 Mbit/s

95th percentile per-packet one-way delay: 73.057 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 76.50 Mbit/s

95th percentile per-packet one-way delay: 74.945 ms

Loss rate: 0.00%

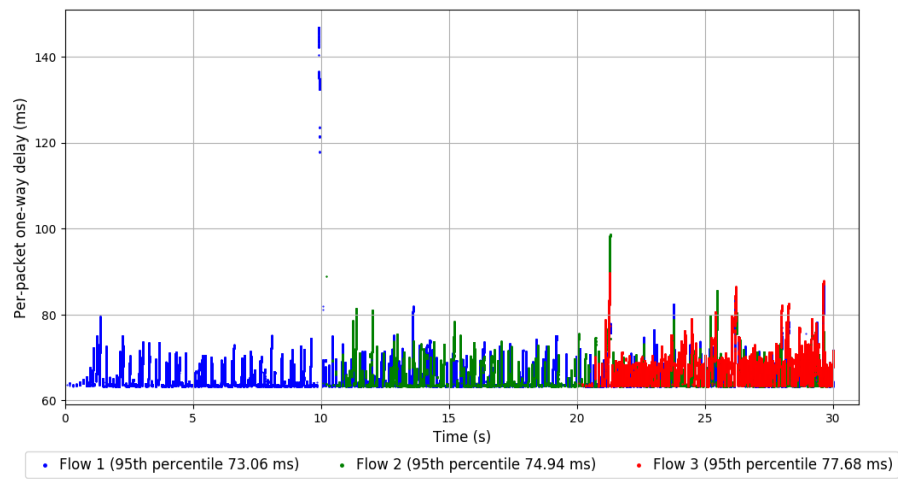
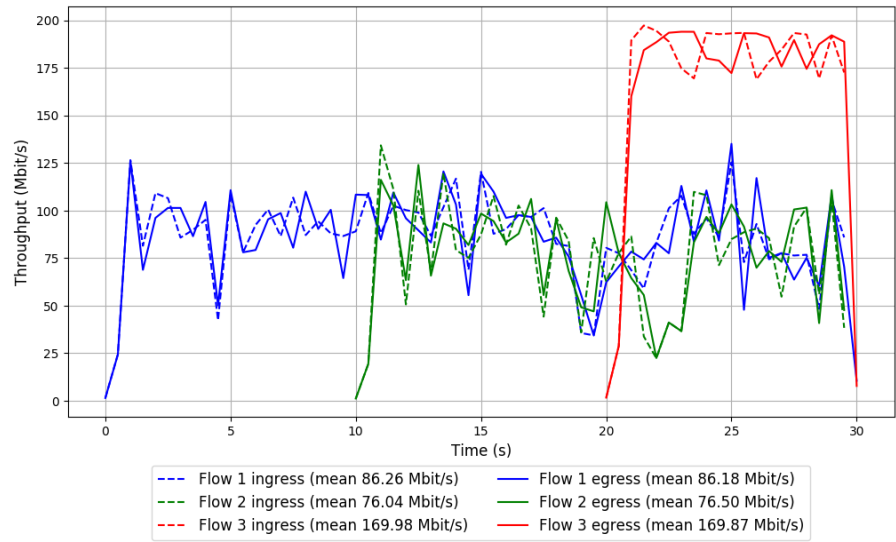
-- Flow 3:

Average throughput: 169.87 Mbit/s

95th percentile per-packet one-way delay: 77.676 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-10-12 20:13:35

End at: 2017-10-12 20:14:05

Below is generated by plot.py at 2017-10-12 23:15:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 169.90 Mbit/s

95th percentile per-packet one-way delay: 73.949 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 83.28 Mbit/s

95th percentile per-packet one-way delay: 74.319 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 88.46 Mbit/s

95th percentile per-packet one-way delay: 74.397 ms

Loss rate: 0.00%

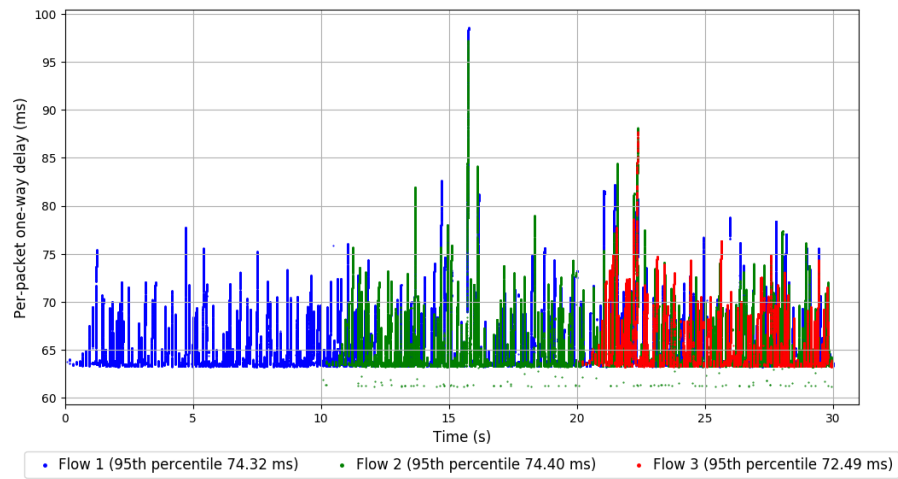
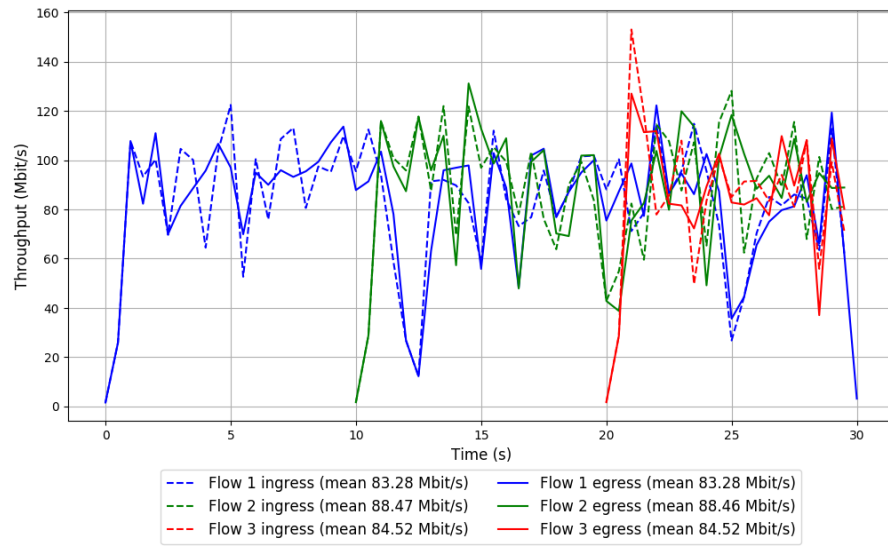
-- Flow 3:

Average throughput: 84.52 Mbit/s

95th percentile per-packet one-way delay: 72.486 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-10-12 20:25:40

End at: 2017-10-12 20:26:10

Below is generated by plot.py at 2017-10-12 23:15:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 220.55 Mbit/s

95th percentile per-packet one-way delay: 73.442 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 88.65 Mbit/s

95th percentile per-packet one-way delay: 71.103 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 153.53 Mbit/s

95th percentile per-packet one-way delay: 74.857 ms

Loss rate: 0.00%

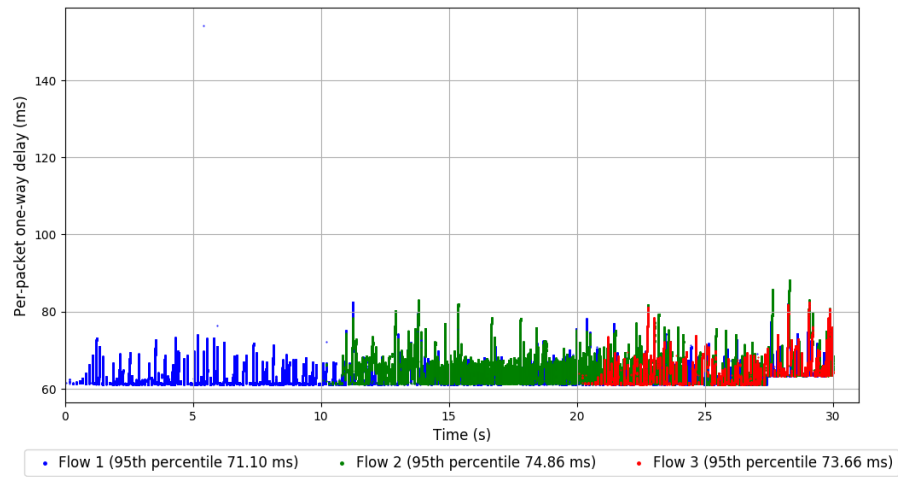
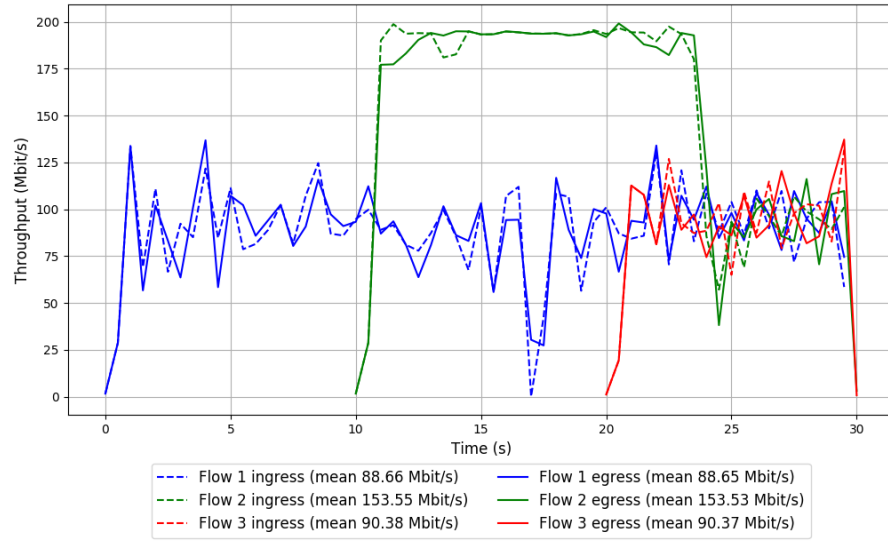
-- Flow 3:

Average throughput: 90.37 Mbit/s

95th percentile per-packet one-way delay: 73.660 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-10-12 20:37:49

End at: 2017-10-12 20:38:19

Below is generated by plot.py at 2017-10-12 23:15:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 167.68 Mbit/s

95th percentile per-packet one-way delay: 73.468 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 84.25 Mbit/s

95th percentile per-packet one-way delay: 72.381 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 84.67 Mbit/s

95th percentile per-packet one-way delay: 74.547 ms

Loss rate: 0.00%

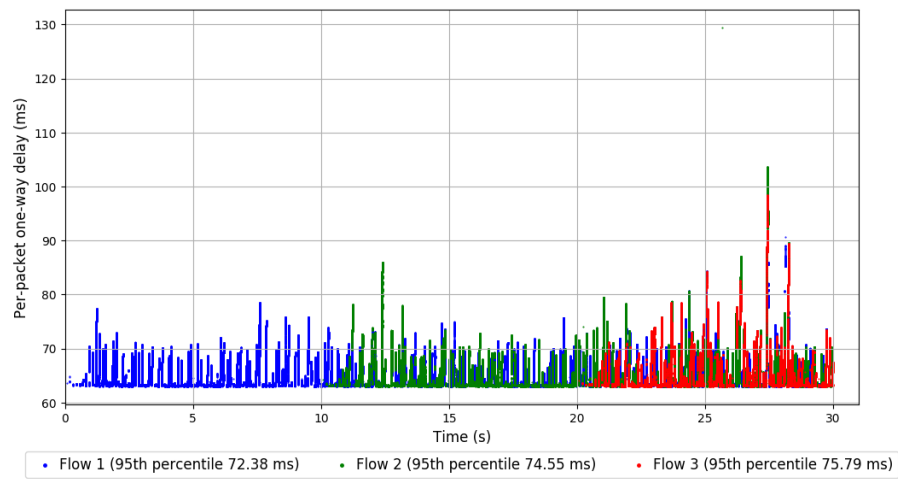
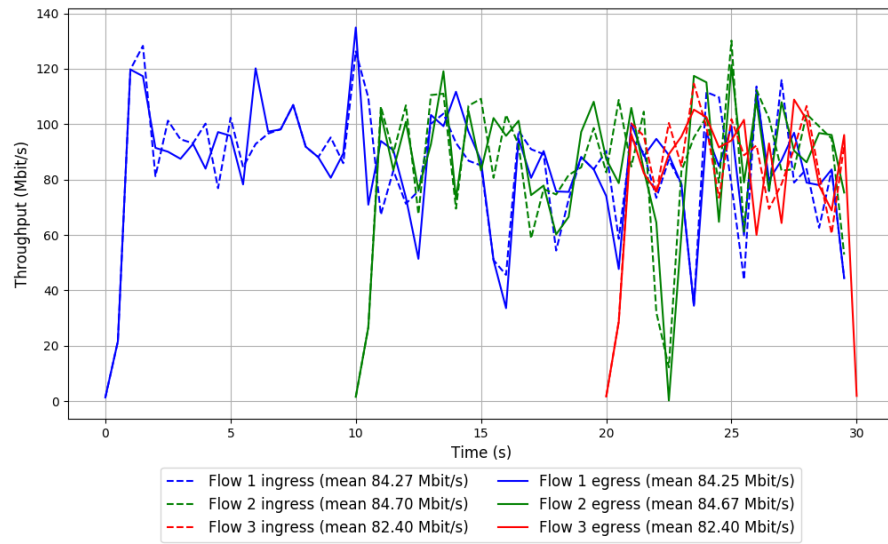
-- Flow 3:

Average throughput: 82.40 Mbit/s

95th percentile per-packet one-way delay: 75.787 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-10-12 20:50:28

End at: 2017-10-12 20:50:58

Below is generated by plot.py at 2017-10-12 23:15:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 211.03 Mbit/s

95th percentile per-packet one-way delay: 73.332 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 82.99 Mbit/s

95th percentile per-packet one-way delay: 73.528 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 148.94 Mbit/s

95th percentile per-packet one-way delay: 73.027 ms

Loss rate: 0.08%

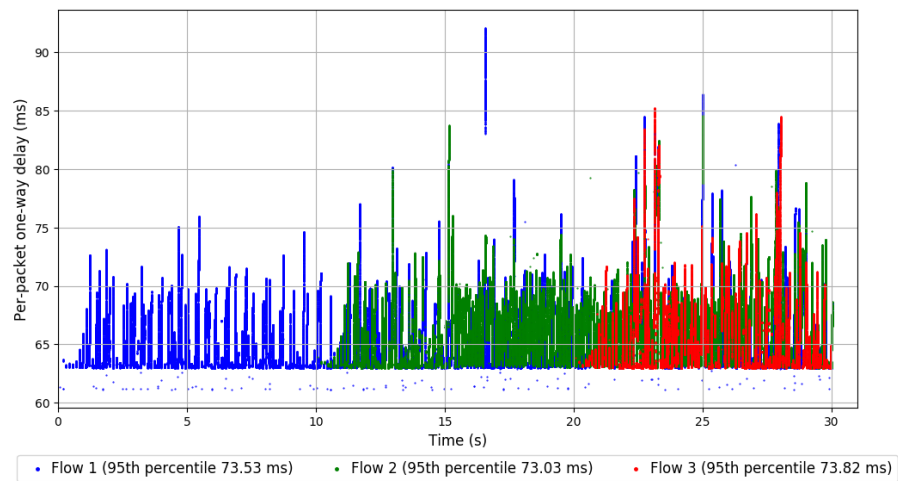
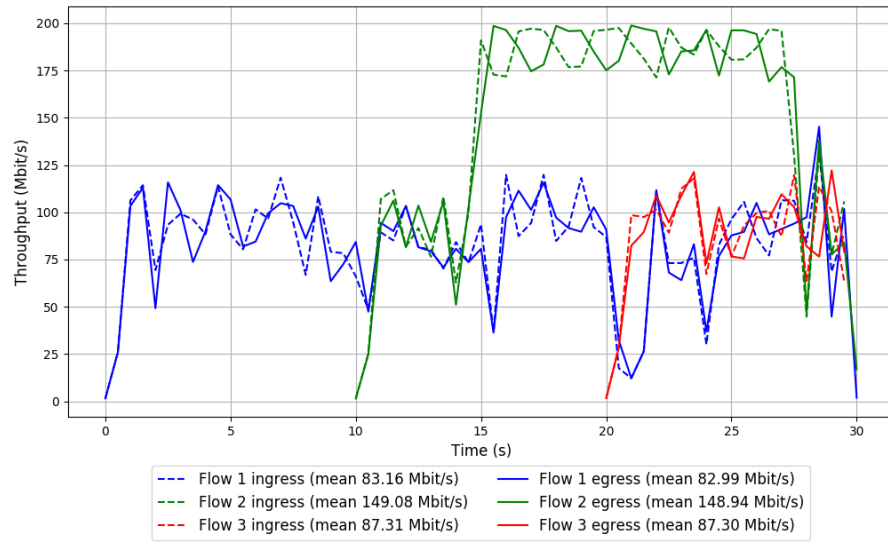
-- Flow 3:

Average throughput: 87.30 Mbit/s

95th percentile per-packet one-way delay: 73.820 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-10-12 21:03:06

End at: 2017-10-12 21:03:36

Below is generated by plot.py at 2017-10-12 23:15:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 168.81 Mbit/s

95th percentile per-packet one-way delay: 71.636 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 82.83 Mbit/s

95th percentile per-packet one-way delay: 71.663 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 88.12 Mbit/s

95th percentile per-packet one-way delay: 72.089 ms

Loss rate: 0.00%

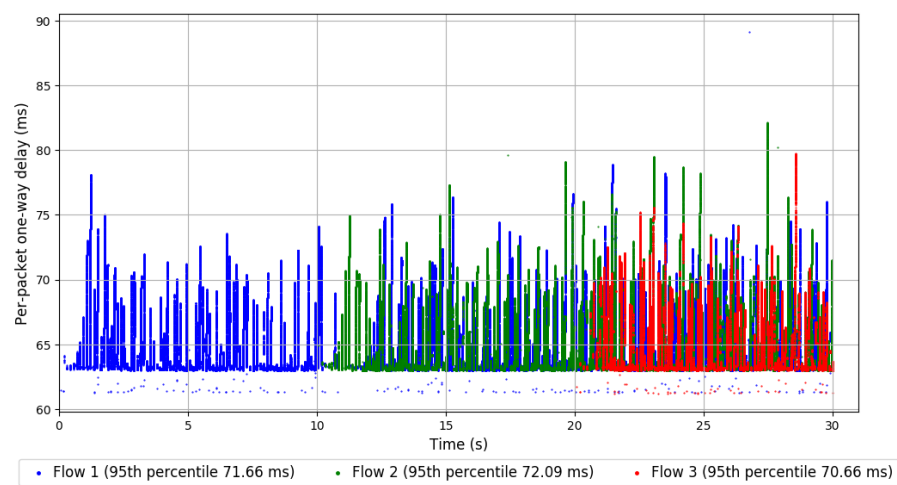
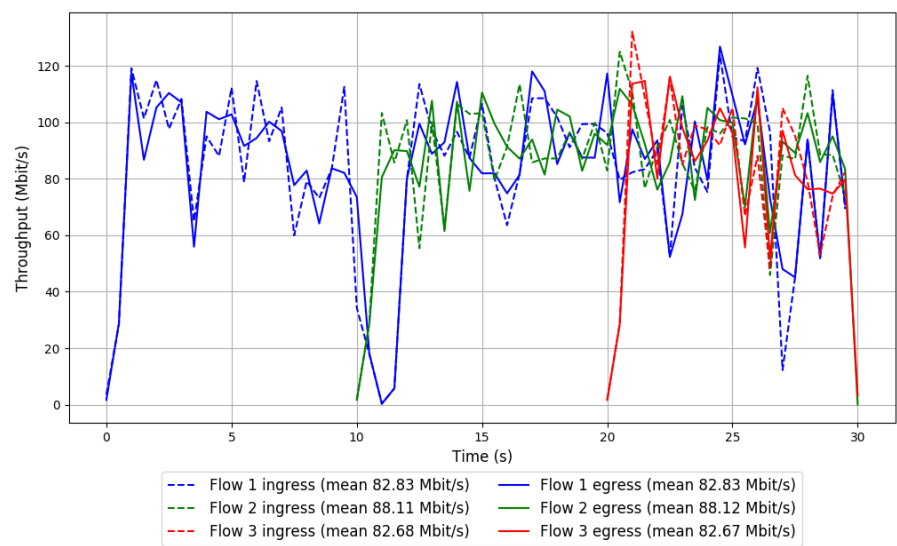
-- Flow 3:

Average throughput: 82.67 Mbit/s

95th percentile per-packet one-way delay: 70.660 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-10-12 21:15:49

End at: 2017-10-12 21:16:19

Below is generated by plot.py at 2017-10-12 23:15:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 191.22 Mbit/s

95th percentile per-packet one-way delay: 74.051 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 87.02 Mbit/s

95th percentile per-packet one-way delay: 74.175 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 84.62 Mbit/s

95th percentile per-packet one-way delay: 72.909 ms

Loss rate: 0.00%

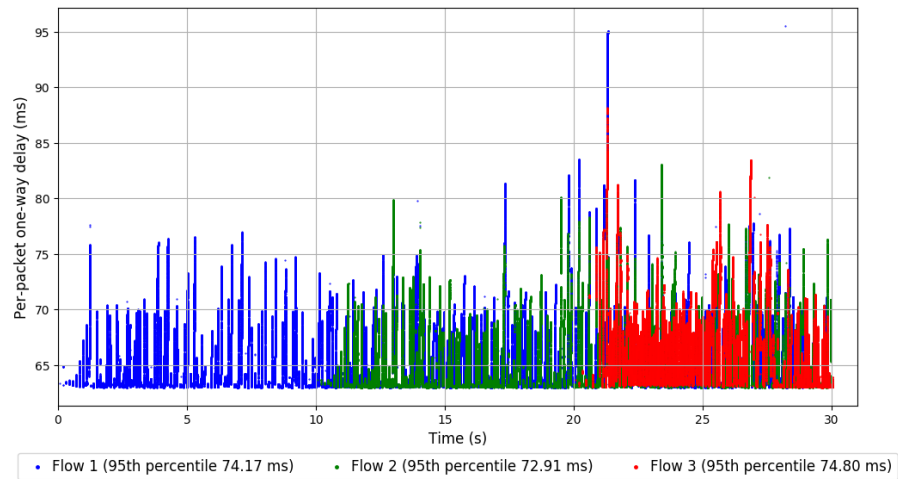
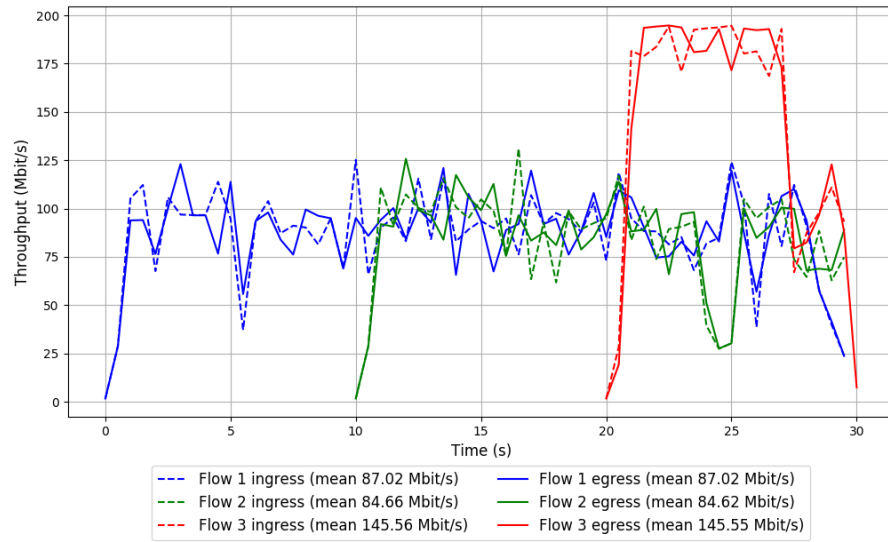
-- Flow 3:

Average throughput: 145.55 Mbit/s

95th percentile per-packet one-way delay: 74.798 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-10-12 21:28:19

End at: 2017-10-12 21:28:49

Below is generated by plot.py at 2017-10-12 23:17:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 173.49 Mbit/s

95th percentile per-packet one-way delay: 74.627 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 83.38 Mbit/s

95th percentile per-packet one-way delay: 74.049 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 96.28 Mbit/s

95th percentile per-packet one-way delay: 74.862 ms

Loss rate: 0.06%

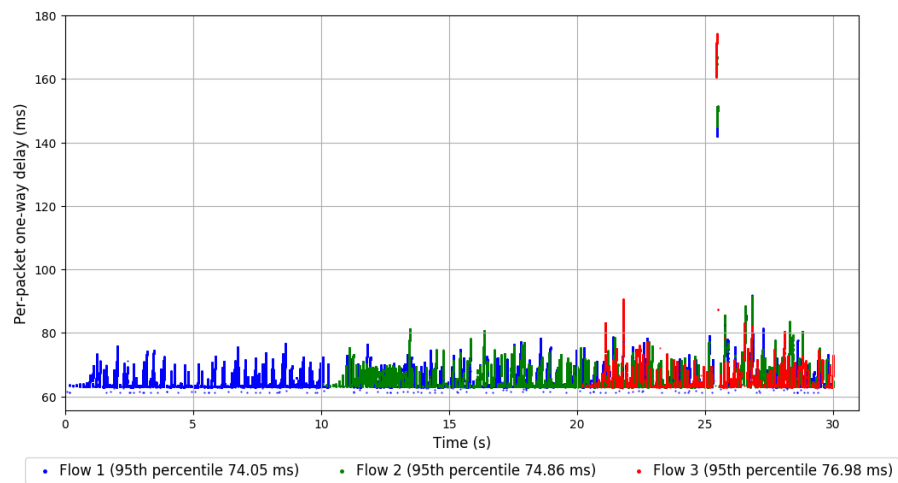
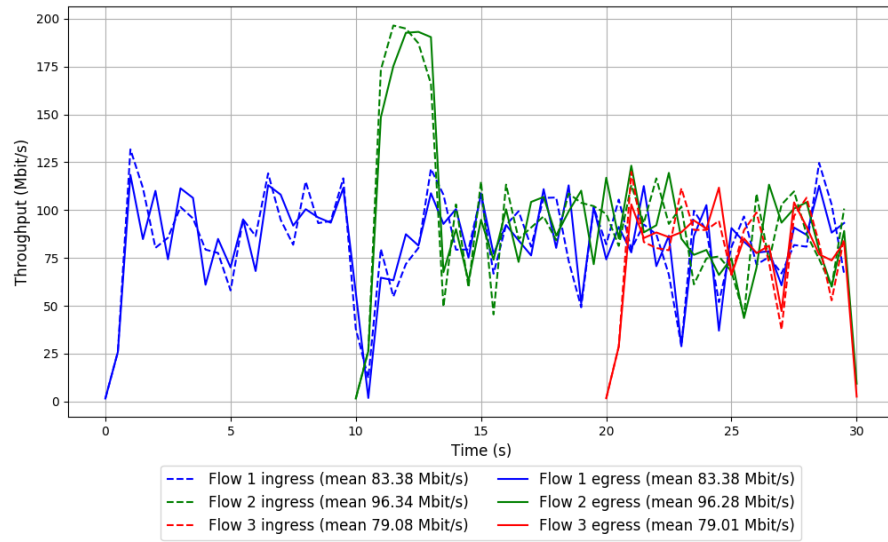
-- Flow 3:

Average throughput: 79.01 Mbit/s

95th percentile per-packet one-way delay: 76.980 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-10-12 21:40:55

End at: 2017-10-12 21:41:25

Below is generated by plot.py at 2017-10-12 23:17:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 172.84 Mbit/s

95th percentile per-packet one-way delay: 73.018 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 90.16 Mbit/s

95th percentile per-packet one-way delay: 72.964 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 85.74 Mbit/s

95th percentile per-packet one-way delay: 73.342 ms

Loss rate: 0.00%

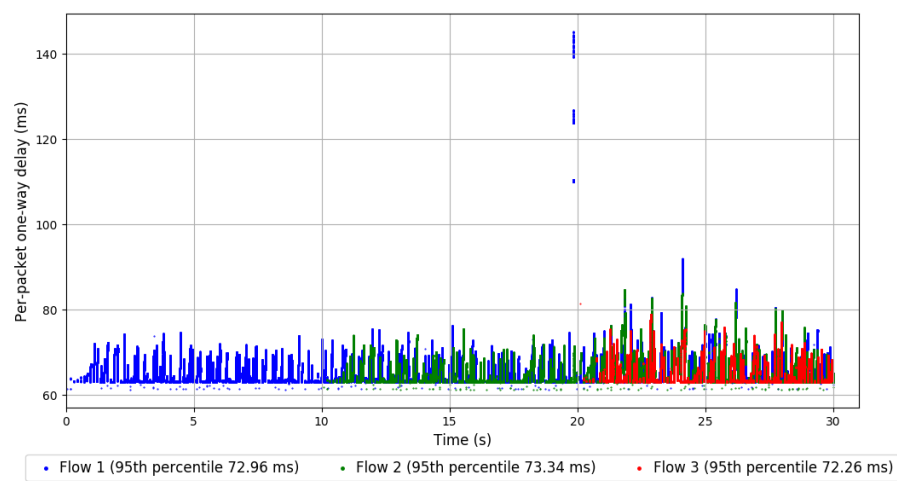
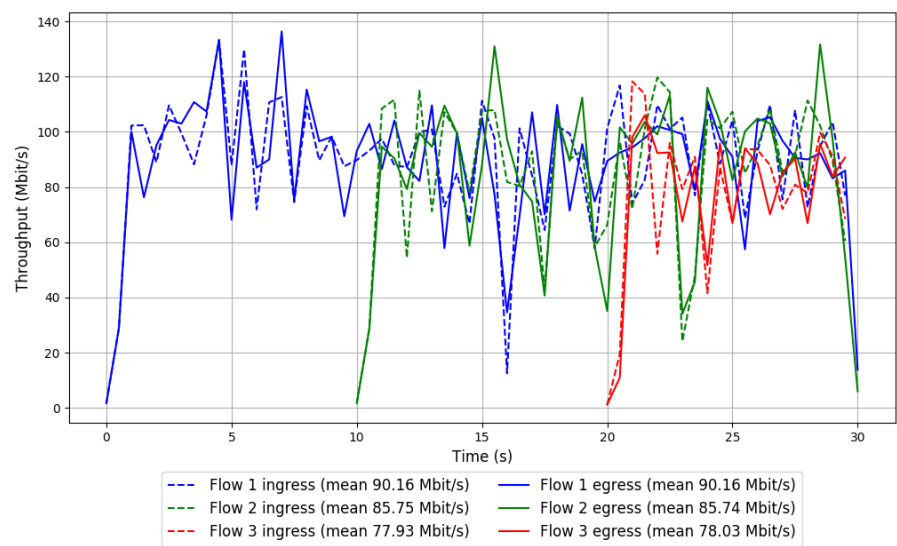
-- Flow 3:

Average throughput: 78.03 Mbit/s

95th percentile per-packet one-way delay: 72.262 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link

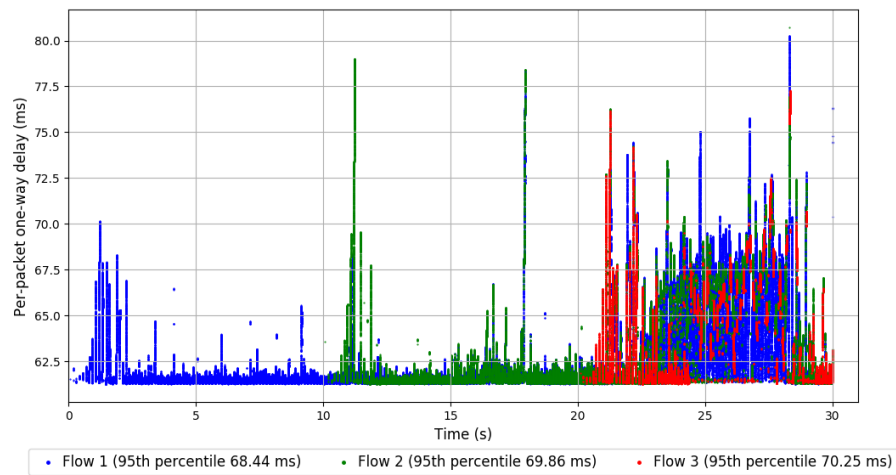
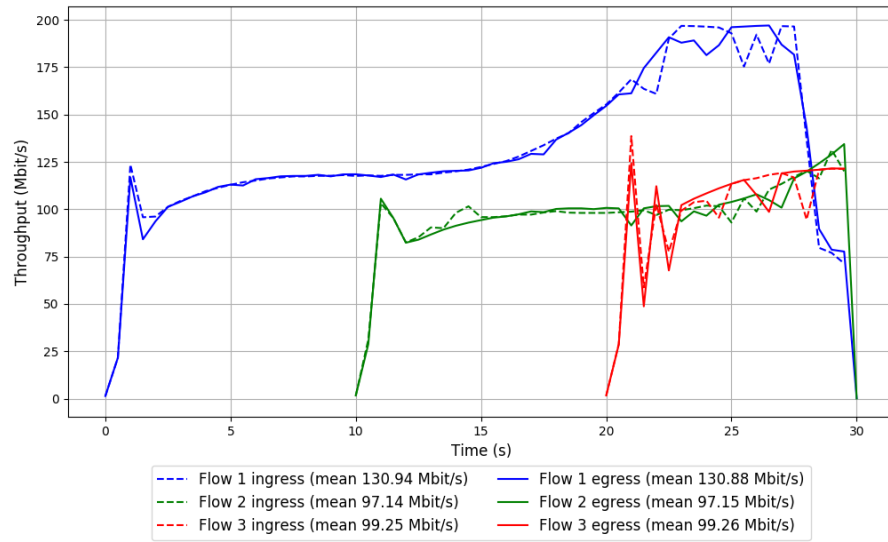


```
Run 1: Statistics of TCP Cubic

Start at: 2017-10-12 19:43:28
End at: 2017-10-12 19:43:58

# Below is generated by plot.py at 2017-10-12 23:18:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 228.40 Mbit/s
95th percentile per-packet one-way delay: 69.173 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 130.88 Mbit/s
95th percentile per-packet one-way delay: 68.435 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 69.860 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 99.26 Mbit/s
95th percentile per-packet one-way delay: 70.253 ms
Loss rate: 0.00%
```

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-10-12 19:56:15

End at: 2017-10-12 19:56:45

Below is generated by plot.py at 2017-10-12 23:18:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 203.82 Mbit/s

95th percentile per-packet one-way delay: 71.112 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 110.85 Mbit/s

95th percentile per-packet one-way delay: 71.412 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 93.95 Mbit/s

95th percentile per-packet one-way delay: 70.080 ms

Loss rate: 0.39%

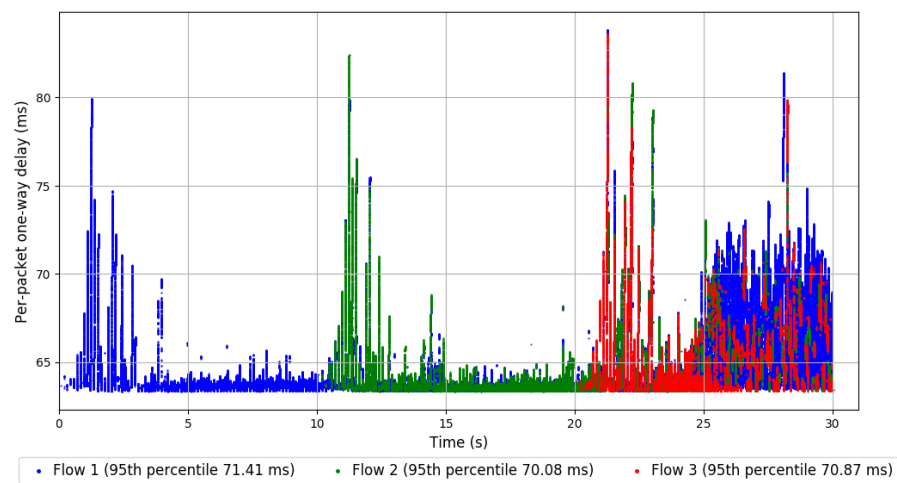
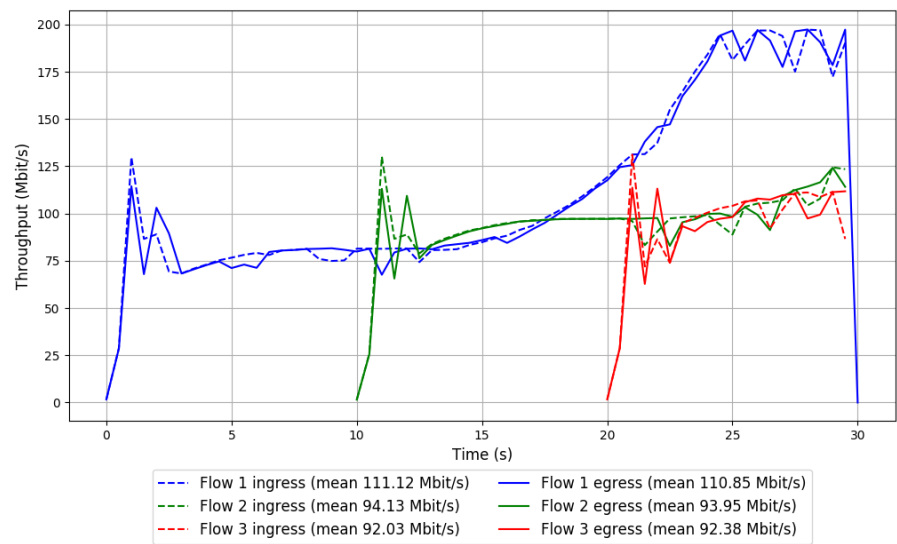
-- Flow 3:

Average throughput: 92.38 Mbit/s

95th percentile per-packet one-way delay: 70.868 ms

Loss rate: 0.01%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-10-12 20:08:16

End at: 2017-10-12 20:08:46

Below is generated by plot.py at 2017-10-12 23:18:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 208.32 Mbit/s

95th percentile per-packet one-way delay: 68.232 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 106.36 Mbit/s

95th percentile per-packet one-way delay: 67.488 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 86.75 Mbit/s

95th percentile per-packet one-way delay: 68.242 ms

Loss rate: 0.00%

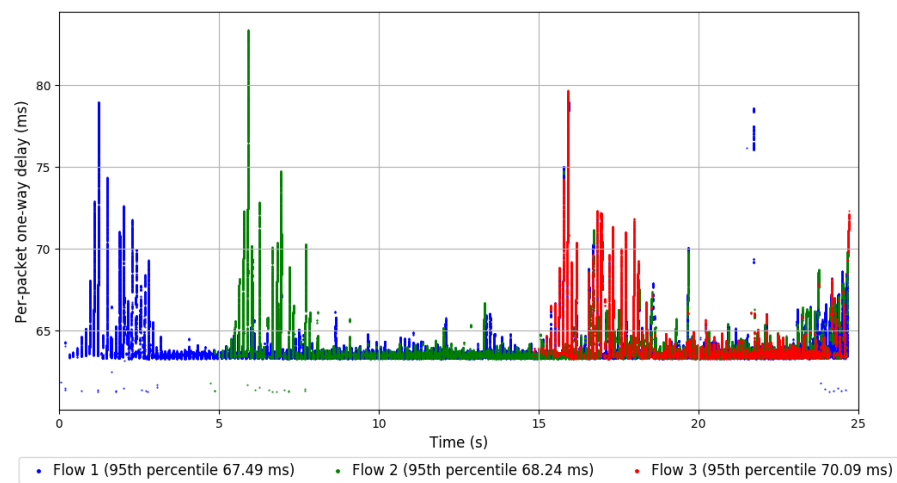
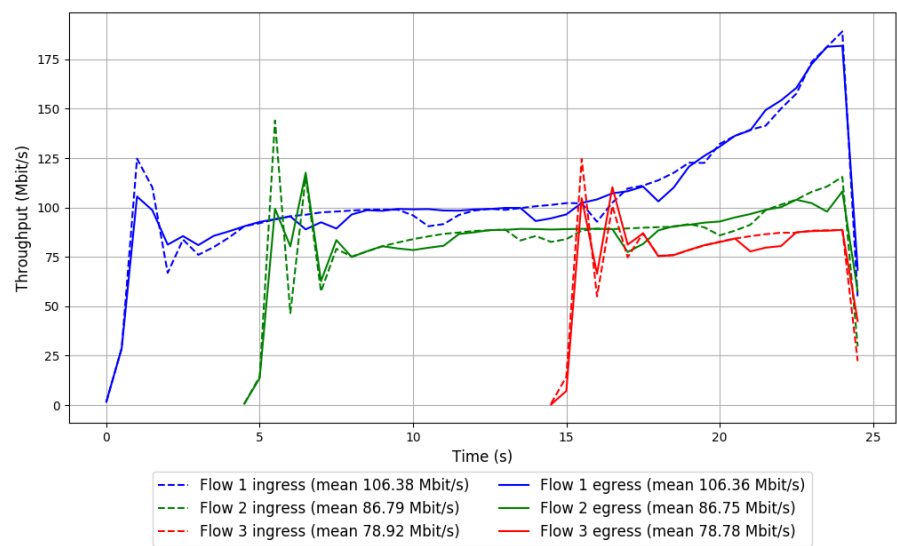
-- Flow 3:

Average throughput: 78.78 Mbit/s

95th percentile per-packet one-way delay: 70.091 ms

Loss rate: 0.10%

Run 3: Report of TCP Cubic — Data Link

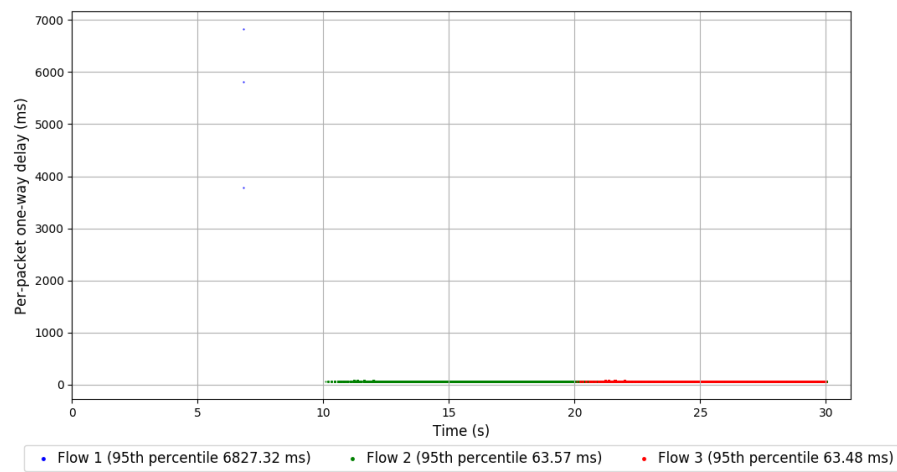
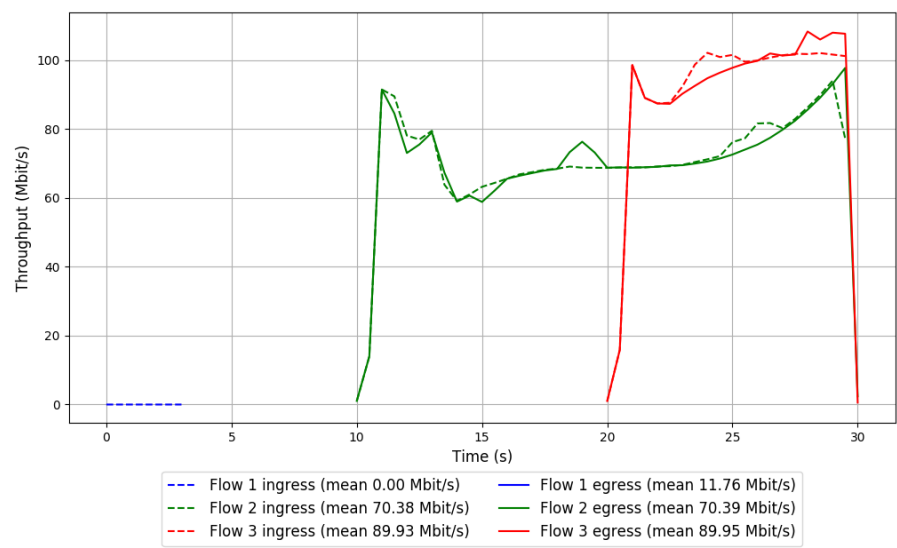


Run 4: Statistics of TCP Cubic

Start at: 2017-10-12 20:20:24

End at: 2017-10-12 20:20:54

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-10-12 20:32:30

End at: 2017-10-12 20:33:00

Below is generated by plot.py at 2017-10-12 23:19:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 206.00 Mbit/s

95th percentile per-packet one-way delay: 68.316 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 86.40 Mbit/s

95th percentile per-packet one-way delay: 68.912 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 93.82 Mbit/s

95th percentile per-packet one-way delay: 68.905 ms

Loss rate: 0.00%

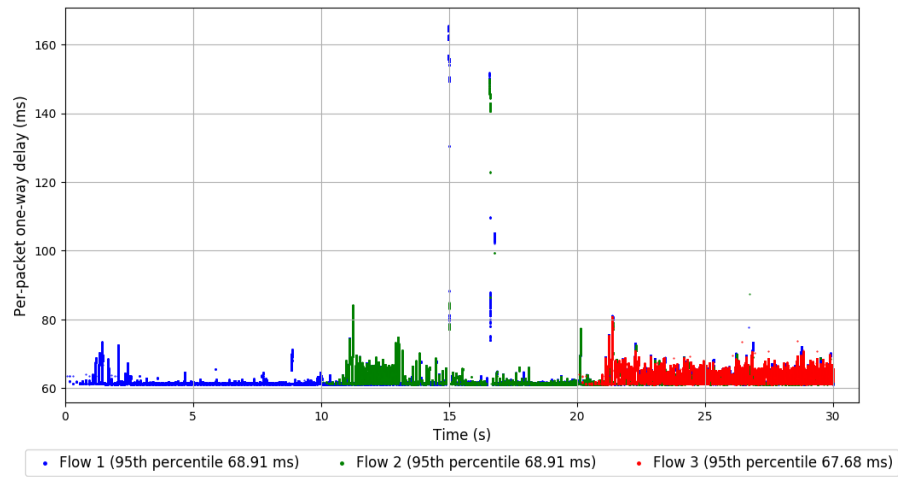
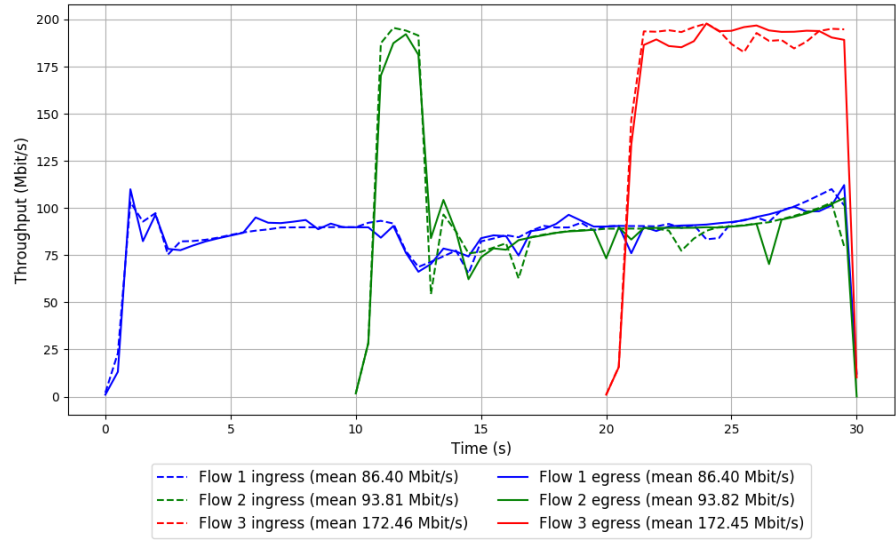
-- Flow 3:

Average throughput: 172.45 Mbit/s

95th percentile per-packet one-way delay: 67.676 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-10-12 20:45:06

End at: 2017-10-12 20:45:36

Below is generated by plot.py at 2017-10-12 23:19:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 227.36 Mbit/s

95th percentile per-packet one-way delay: 70.786 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 109.25 Mbit/s

95th percentile per-packet one-way delay: 70.173 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 119.97 Mbit/s

95th percentile per-packet one-way delay: 70.761 ms

Loss rate: 0.01%

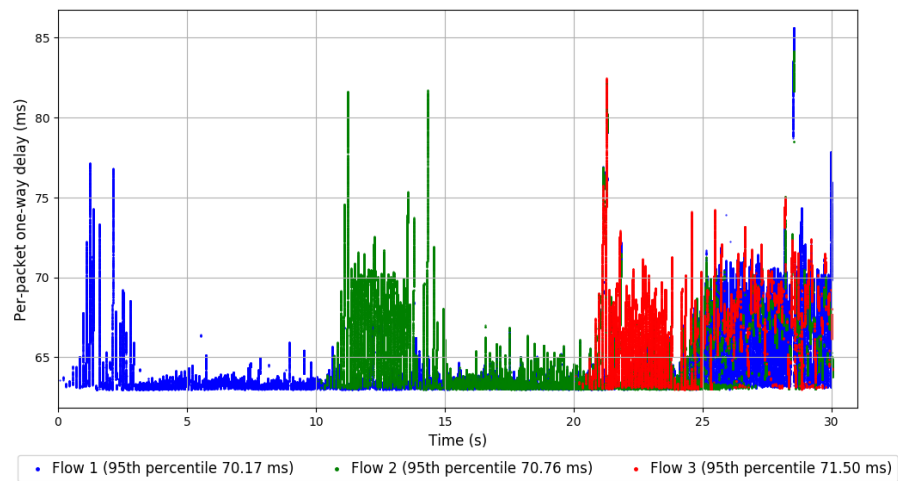
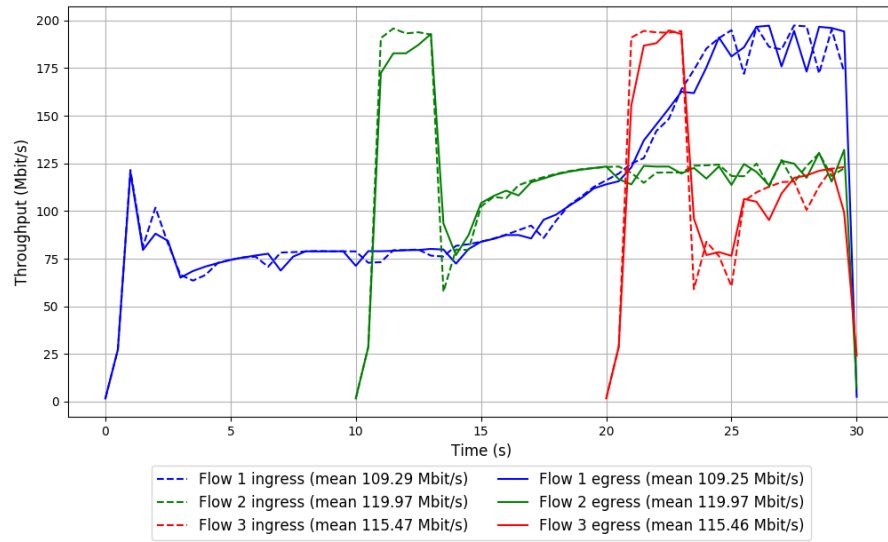
-- Flow 3:

Average throughput: 115.46 Mbit/s

95th percentile per-packet one-way delay: 71.497 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-10-12 20:57:40

End at: 2017-10-12 20:58:10

Below is generated by plot.py at 2017-10-12 23:22:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 290.45 Mbit/s

95th percentile per-packet one-way delay: 74.489 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 117.30 Mbit/s

95th percentile per-packet one-way delay: 71.427 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 177.31 Mbit/s

95th percentile per-packet one-way delay: 73.204 ms

Loss rate: 0.00%

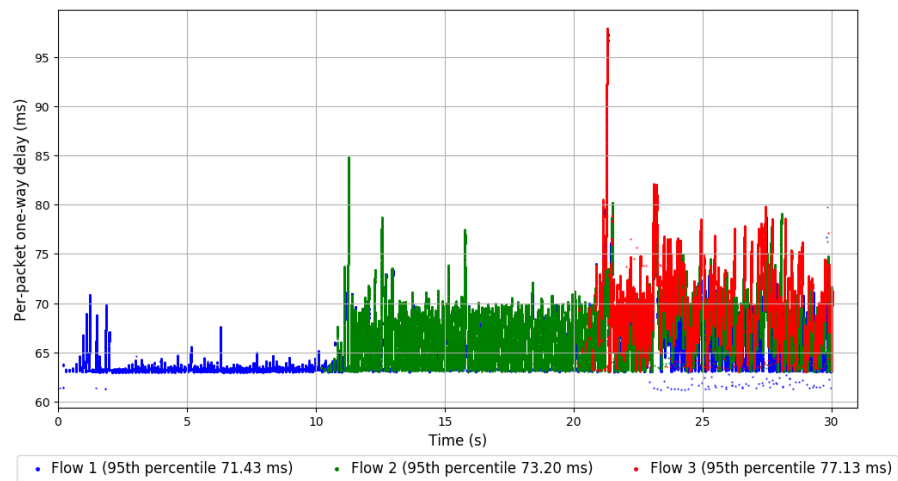
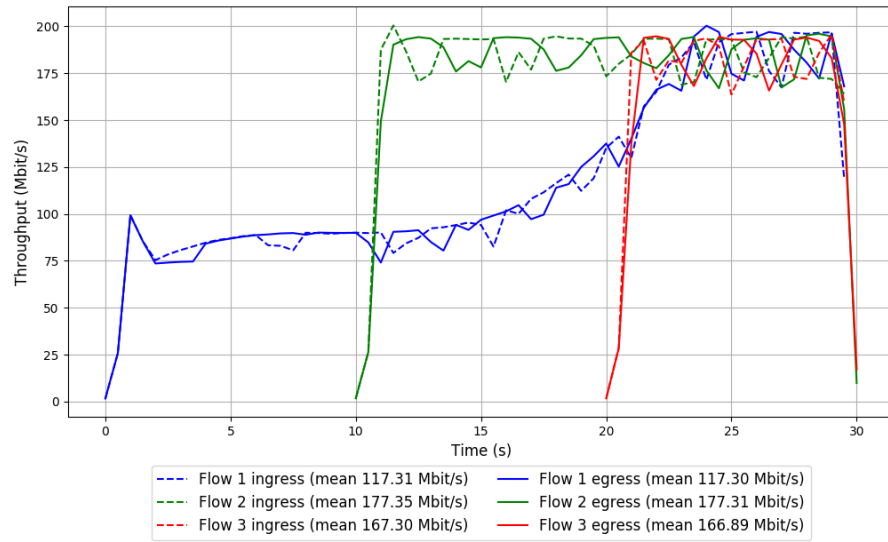
-- Flow 3:

Average throughput: 166.89 Mbit/s

95th percentile per-packet one-way delay: 77.130 ms

Loss rate: 0.21%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-10-12 21:10:26

End at: 2017-10-12 21:10:56

Below is generated by plot.py at 2017-10-12 23:22:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 215.13 Mbit/s

95th percentile per-packet one-way delay: 67.957 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 109.50 Mbit/s

95th percentile per-packet one-way delay: 67.707 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 114.90 Mbit/s

95th percentile per-packet one-way delay: 67.544 ms

Loss rate: 0.00%

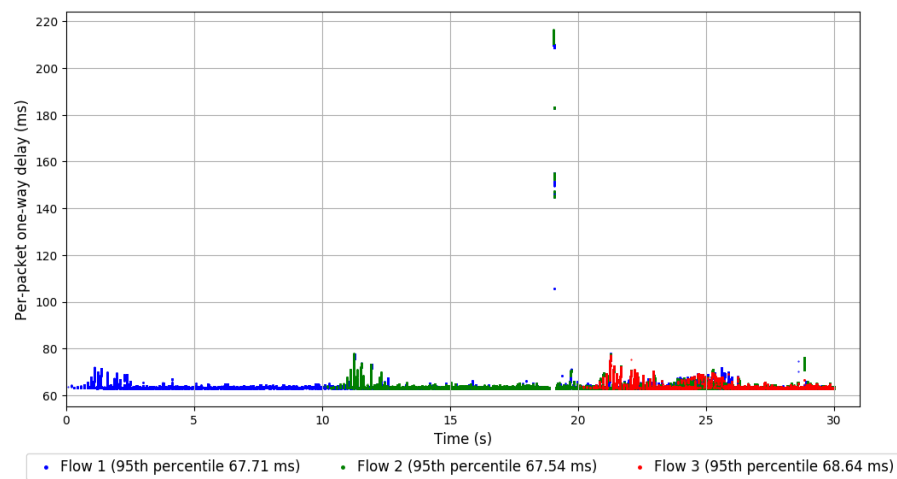
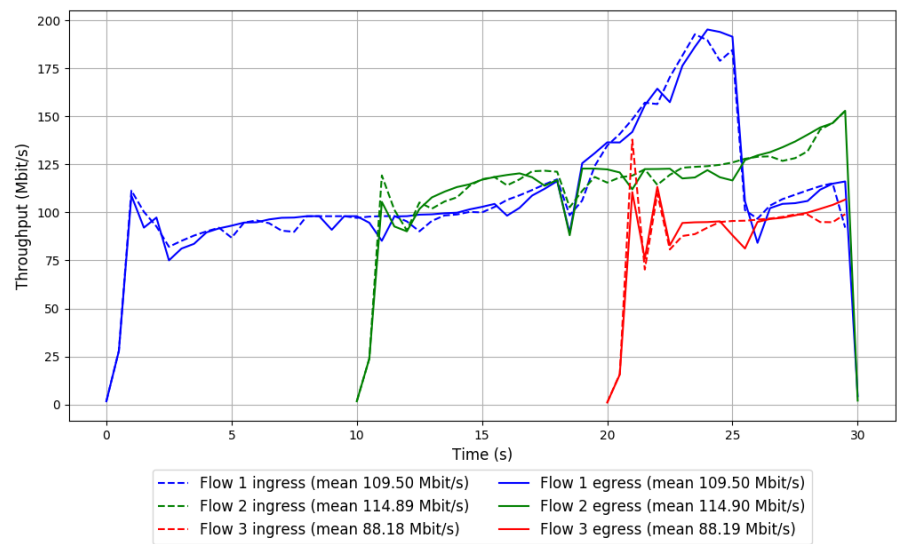
-- Flow 3:

Average throughput: 88.19 Mbit/s

95th percentile per-packet one-way delay: 68.637 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-10-12 21:22:56

End at: 2017-10-12 21:23:26

Below is generated by plot.py at 2017-10-12 23:22:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 243.86 Mbit/s

95th percentile per-packet one-way delay: 69.977 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 113.68 Mbit/s

95th percentile per-packet one-way delay: 67.982 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 110.67 Mbit/s

95th percentile per-packet one-way delay: 71.014 ms

Loss rate: 0.00%

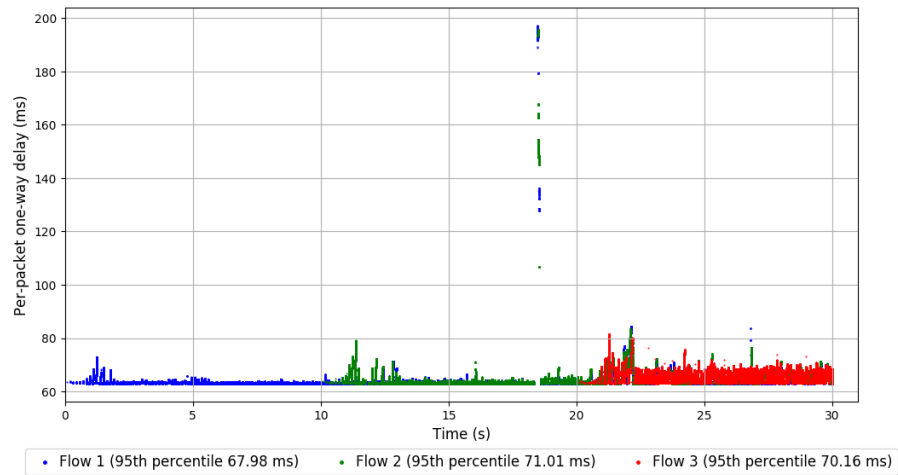
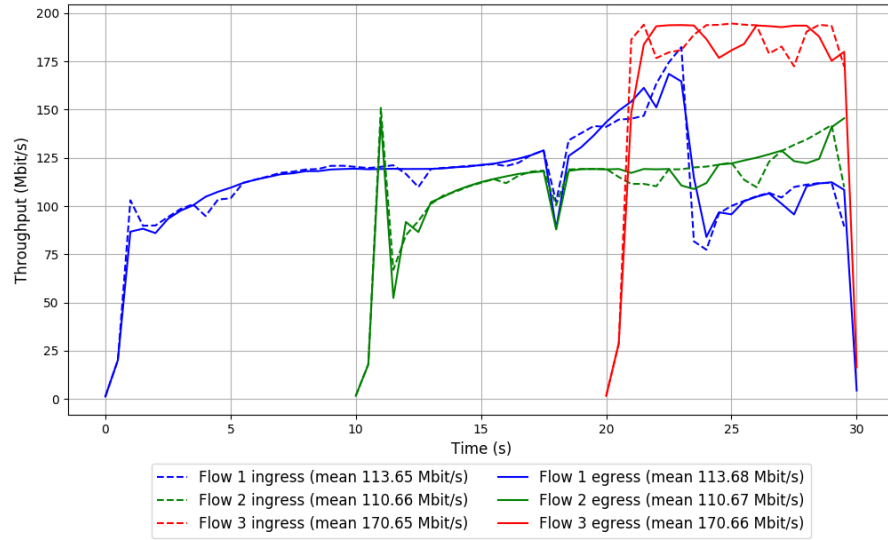
-- Flow 3:

Average throughput: 170.66 Mbit/s

95th percentile per-packet one-way delay: 70.160 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-10-12 21:35:33

End at: 2017-10-12 21:36:03

Below is generated by plot.py at 2017-10-12 23:22:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.26 Mbit/s

95th percentile per-packet one-way delay: 71.157 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 118.92 Mbit/s

95th percentile per-packet one-way delay: 71.836 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 173.97 Mbit/s

95th percentile per-packet one-way delay: 70.409 ms

Loss rate: 0.00%

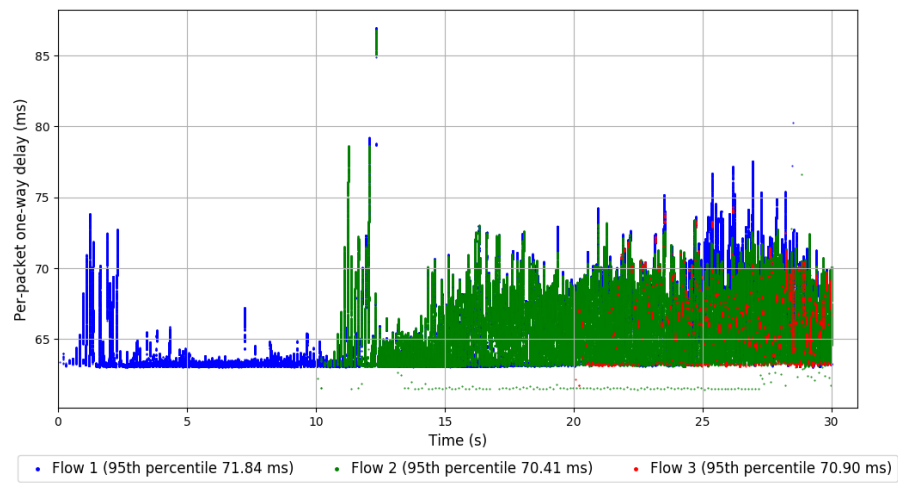
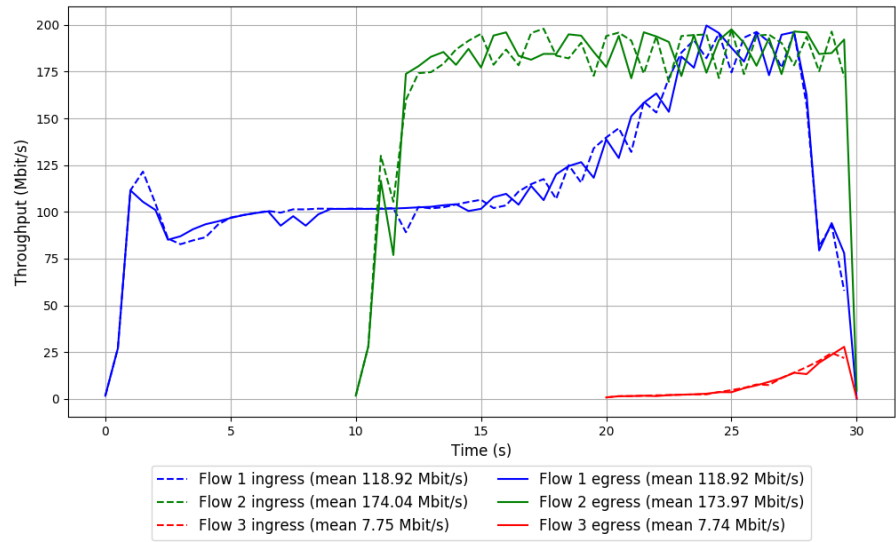
-- Flow 3:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 70.899 ms

Loss rate: 0.03%

Run 10: Report of TCP Cubic — Data Link

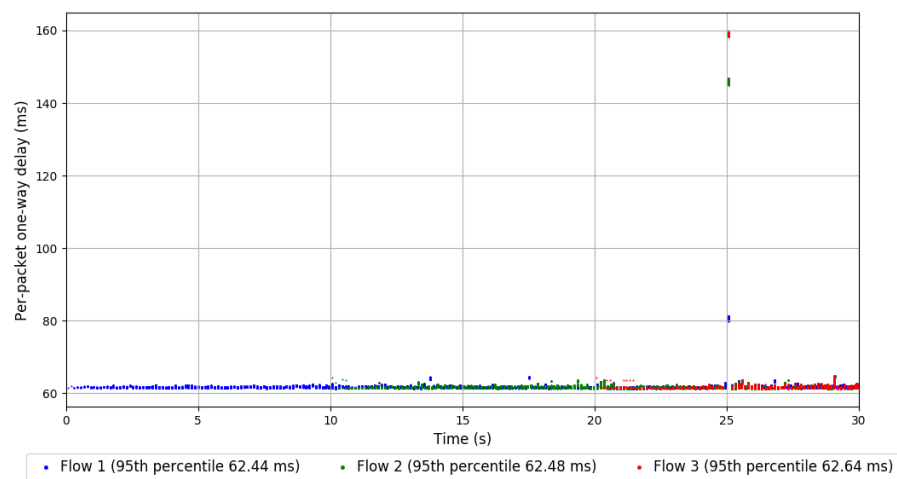
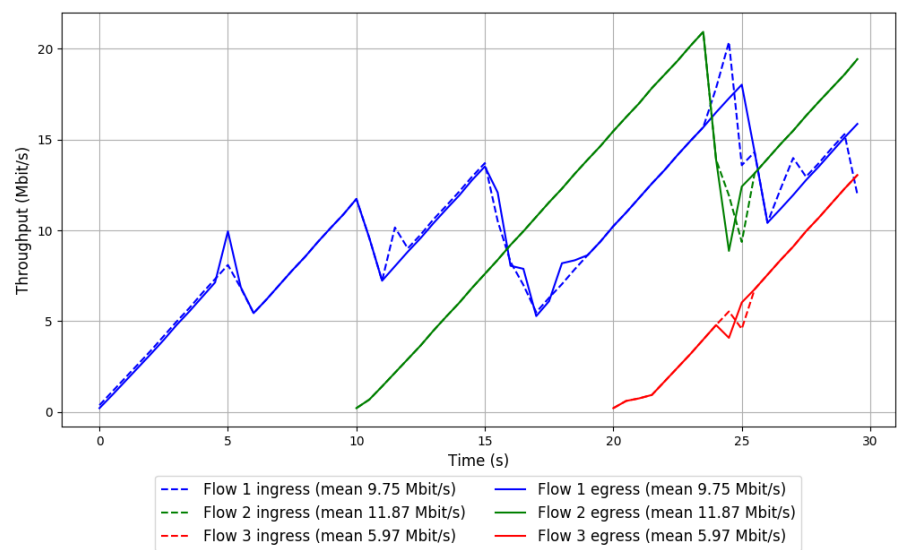


```
Run 1: Statistics of LEDBAT

Start at: 2017-10-12 19:45:20
End at: 2017-10-12 19:45:50

# Below is generated by plot.py at 2017-10-12 23:22:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.59 Mbit/s
95th percentile per-packet one-way delay: 62.522 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.75 Mbit/s
95th percentile per-packet one-way delay: 62.441 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.87 Mbit/s
95th percentile per-packet one-way delay: 62.480 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.97 Mbit/s
95th percentile per-packet one-way delay: 62.639 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

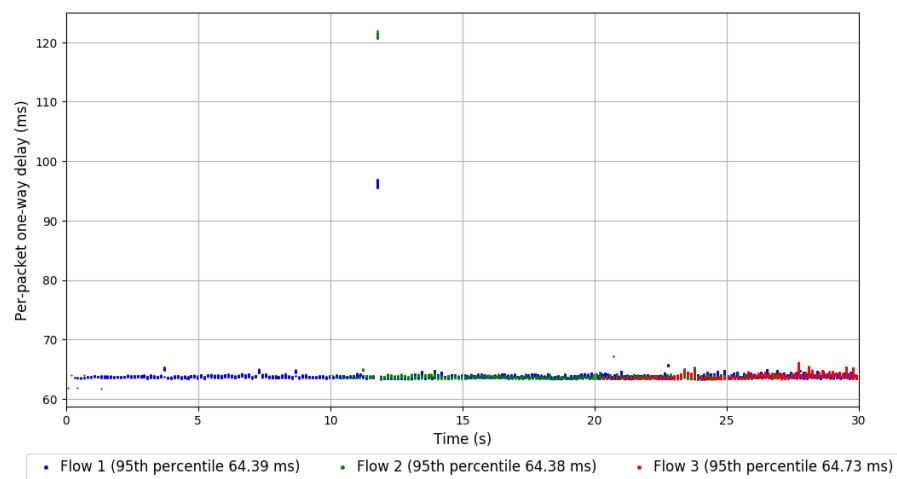
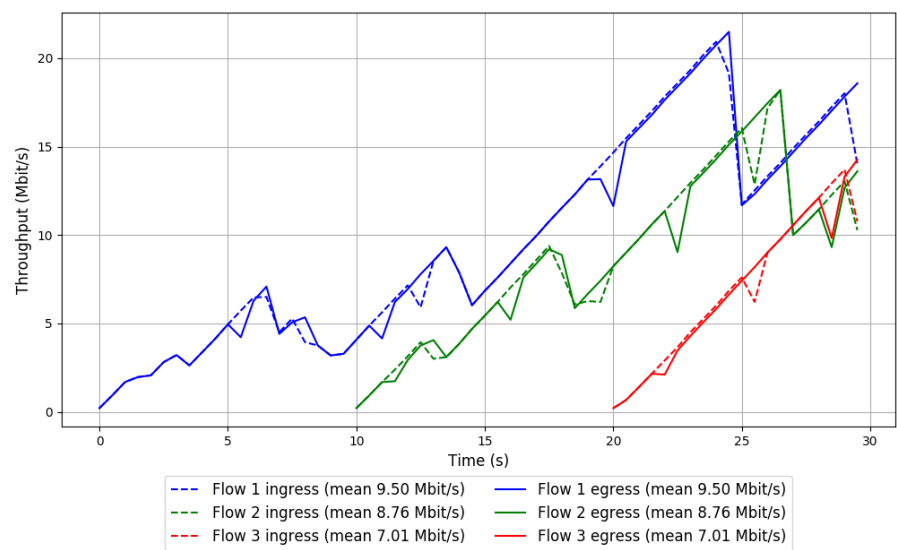


```
Run 2: Statistics of LEDBAT

Start at: 2017-10-12 19:58:03
End at: 2017-10-12 19:58:33

# Below is generated by plot.py at 2017-10-12 23:22:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.62 Mbit/s
95th percentile per-packet one-way delay: 64.437 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.50 Mbit/s
95th percentile per-packet one-way delay: 64.393 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.76 Mbit/s
95th percentile per-packet one-way delay: 64.379 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.01 Mbit/s
95th percentile per-packet one-way delay: 64.729 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

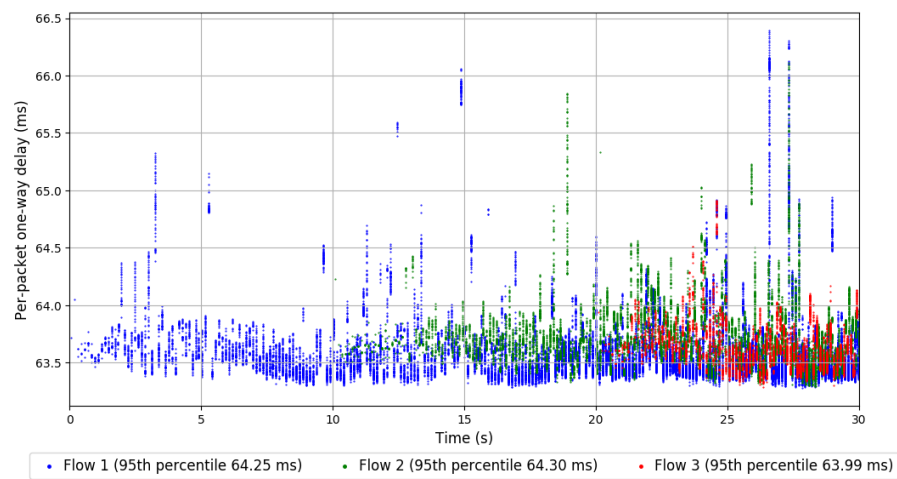
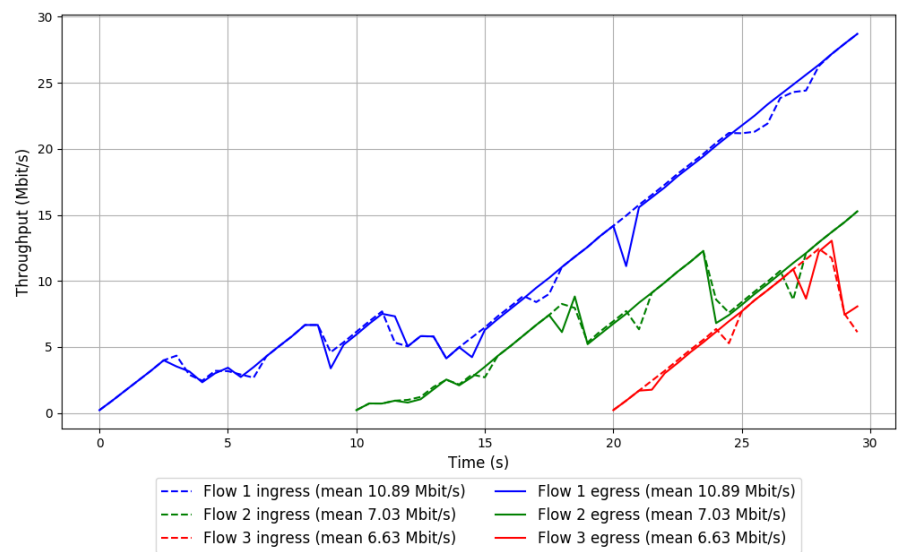


```
Run 3: Statistics of LEDBAT

Start at: 2017-10-12 20:10:03
End at: 2017-10-12 20:10:33

# Below is generated by plot.py at 2017-10-12 23:22:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.73 Mbit/s
95th percentile per-packet one-way delay: 64.219 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.89 Mbit/s
95th percentile per-packet one-way delay: 64.251 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.03 Mbit/s
95th percentile per-packet one-way delay: 64.299 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.63 Mbit/s
95th percentile per-packet one-way delay: 63.992 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-10-12 20:22:06

End at: 2017-10-12 20:22:36

Below is generated by plot.py at 2017-10-12 23:22:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.98 Mbit/s

95th percentile per-packet one-way delay: 62.448 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 11.20 Mbit/s

95th percentile per-packet one-way delay: 62.552 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.60 Mbit/s

95th percentile per-packet one-way delay: 62.408 ms

Loss rate: 0.05%

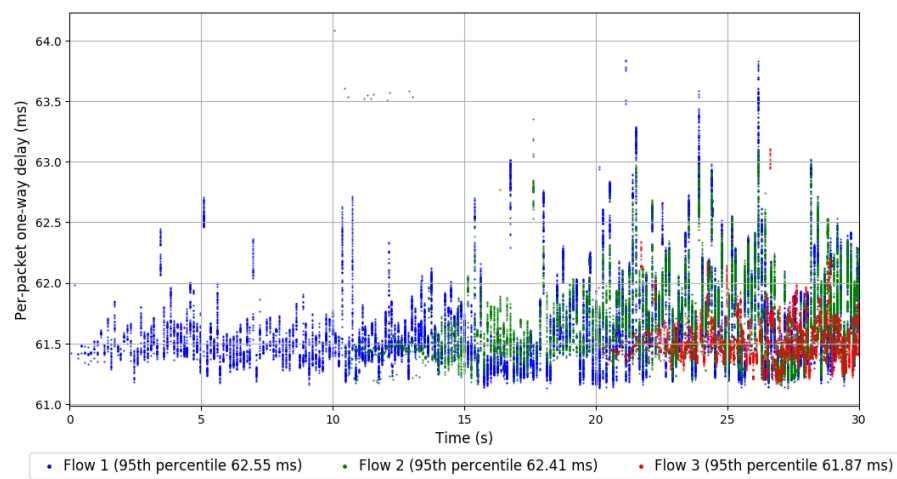
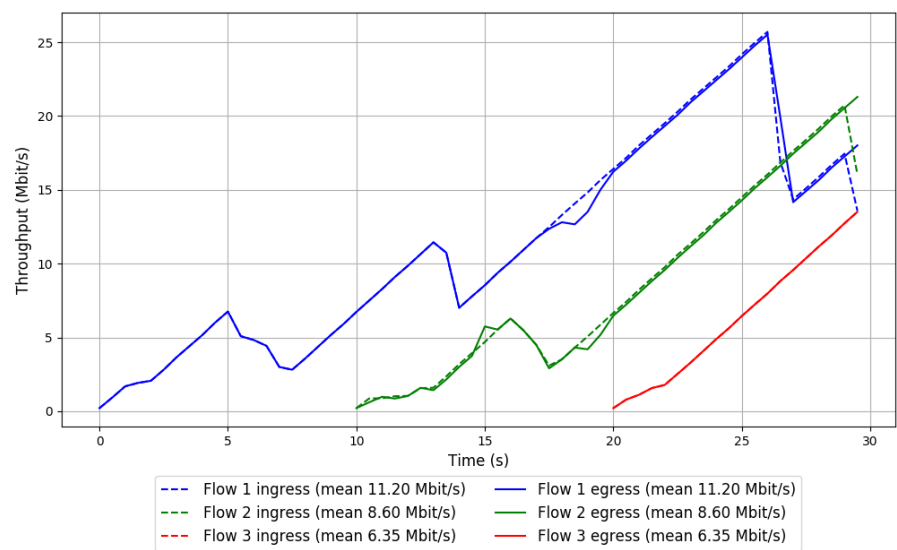
-- Flow 3:

Average throughput: 6.35 Mbit/s

95th percentile per-packet one-way delay: 61.865 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-10-12 20:34:17

End at: 2017-10-12 20:34:47

Below is generated by plot.py at 2017-10-12 23:22:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.54 Mbit/s

95th percentile per-packet one-way delay: 64.008 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 9.16 Mbit/s

95th percentile per-packet one-way delay: 63.996 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.42 Mbit/s

95th percentile per-packet one-way delay: 63.782 ms

Loss rate: 0.00%

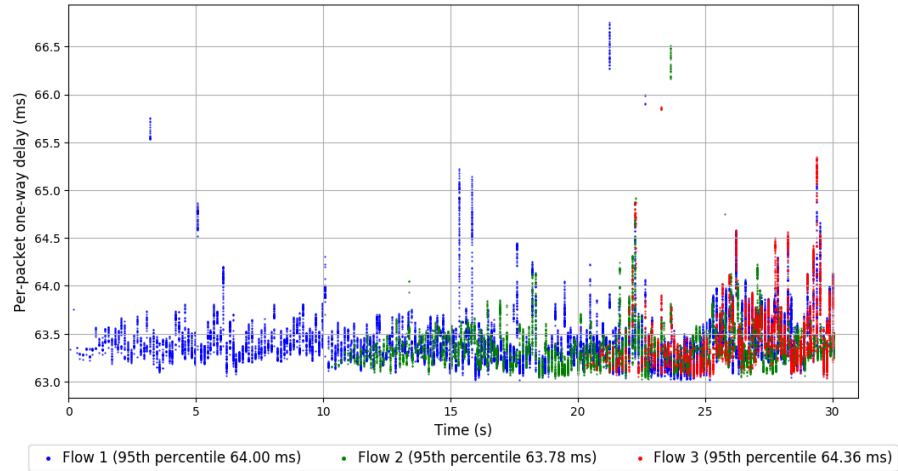
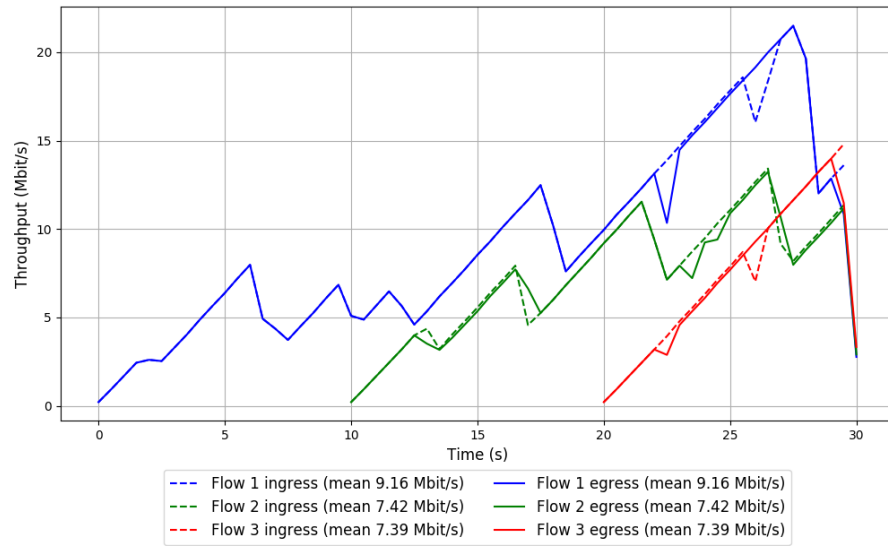
-- Flow 3:

Average throughput: 7.39 Mbit/s

95th percentile per-packet one-way delay: 64.358 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-10-12 20:46:56

End at: 2017-10-12 20:47:26

Below is generated by plot.py at 2017-10-12 23:22:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.25 Mbit/s

95th percentile per-packet one-way delay: 63.761 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.87 Mbit/s

95th percentile per-packet one-way delay: 63.760 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.86 Mbit/s

95th percentile per-packet one-way delay: 63.784 ms

Loss rate: 0.00%

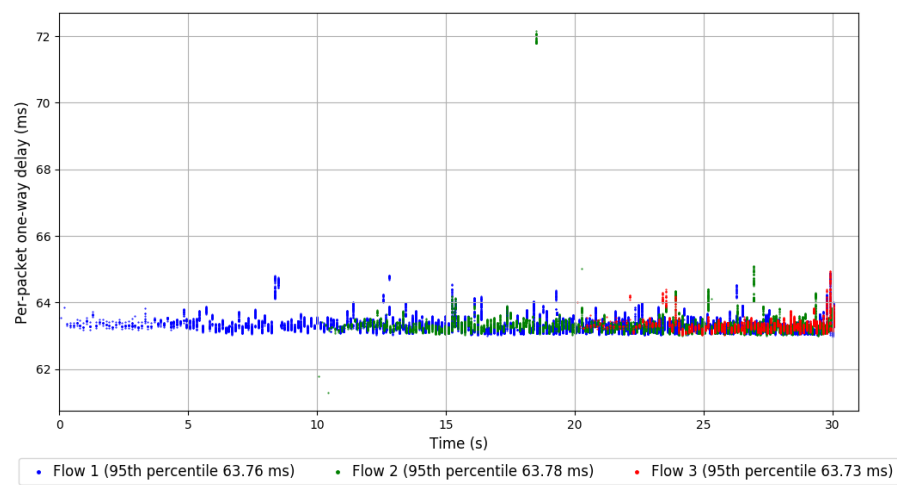
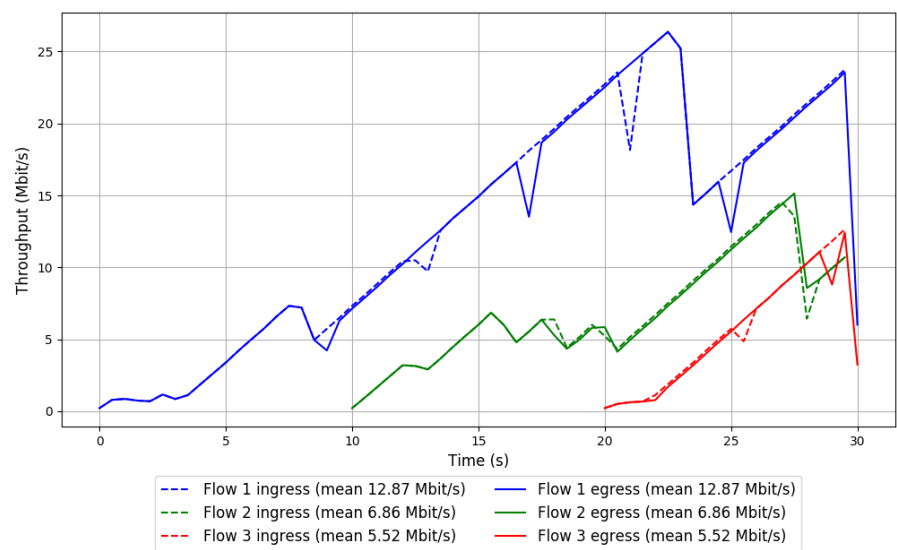
-- Flow 3:

Average throughput: 5.52 Mbit/s

95th percentile per-packet one-way delay: 63.732 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

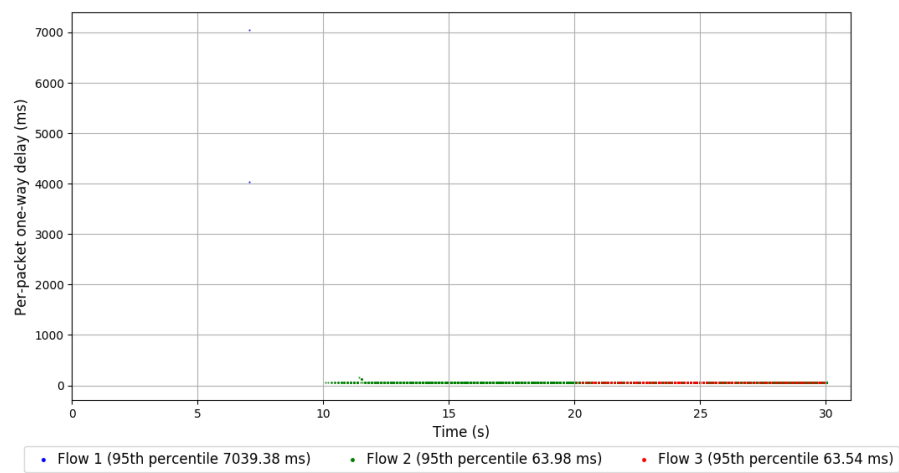
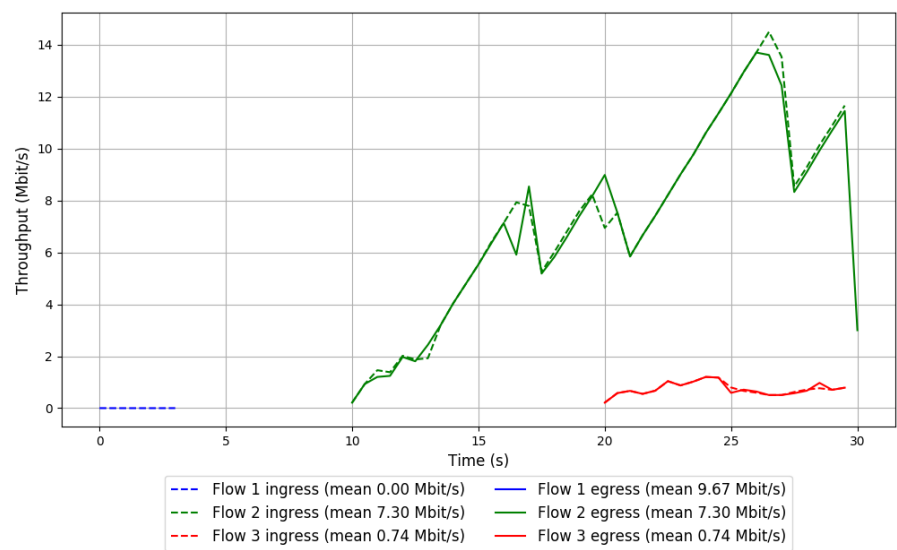


Run 7: Statistics of LEDBAT

Start at: 2017-10-12 20:59:33

End at: 2017-10-12 21:00:03

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-10-12 21:12:16

End at: 2017-10-12 21:12:46

Below is generated by plot.py at 2017-10-12 23:22:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.06 Mbit/s

95th percentile per-packet one-way delay: 64.183 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.24 Mbit/s

95th percentile per-packet one-way delay: 63.940 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.54 Mbit/s

95th percentile per-packet one-way delay: 64.671 ms

Loss rate: 0.00%

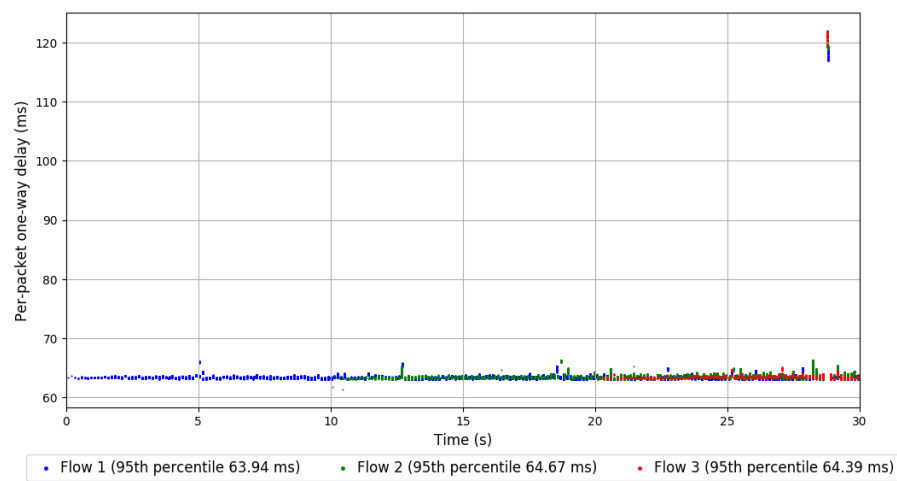
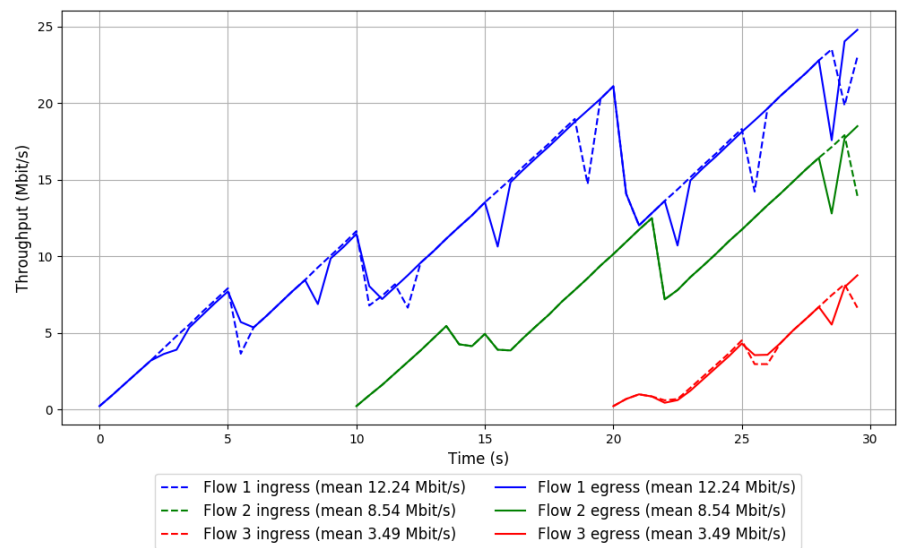
-- Flow 3:

Average throughput: 3.49 Mbit/s

95th percentile per-packet one-way delay: 64.388 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-10-12 21:24:47

End at: 2017-10-12 21:25:17

Below is generated by plot.py at 2017-10-12 23:22:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.56 Mbit/s

95th percentile per-packet one-way delay: 64.361 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 8.92 Mbit/s

95th percentile per-packet one-way delay: 64.288 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 10.29 Mbit/s

95th percentile per-packet one-way delay: 64.552 ms

Loss rate: 0.00%

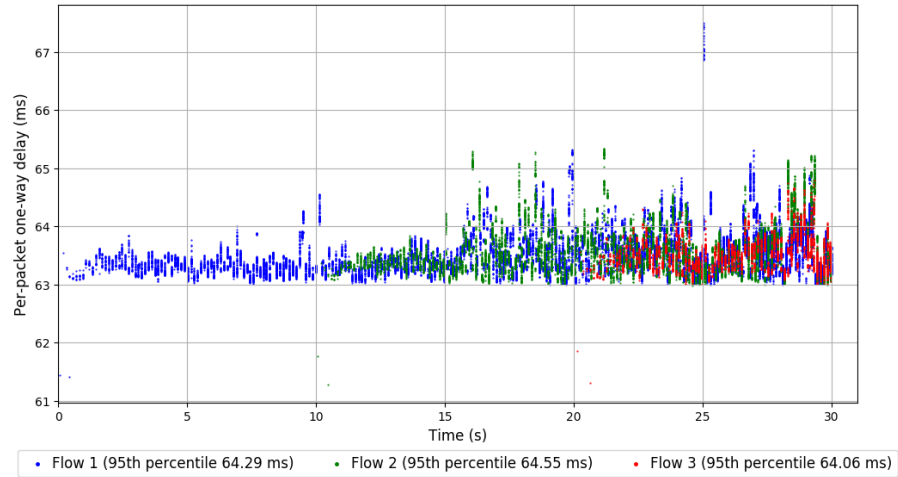
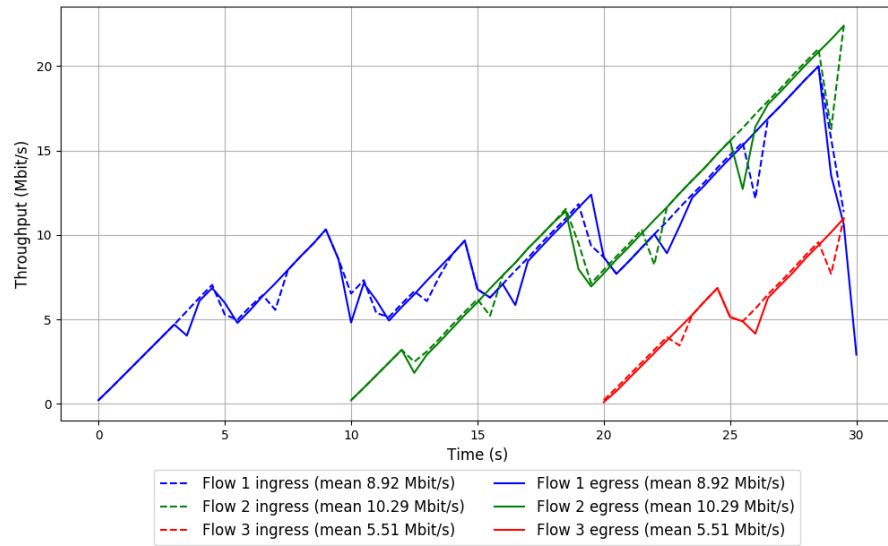
-- Flow 3:

Average throughput: 5.51 Mbit/s

95th percentile per-packet one-way delay: 64.064 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-10-12 21:37:23

End at: 2017-10-12 21:37:53

Below is generated by plot.py at 2017-10-12 23:22:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.61 Mbit/s

95th percentile per-packet one-way delay: 64.223 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 17.09 Mbit/s

95th percentile per-packet one-way delay: 64.237 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.12 Mbit/s

95th percentile per-packet one-way delay: 63.770 ms

Loss rate: 0.00%

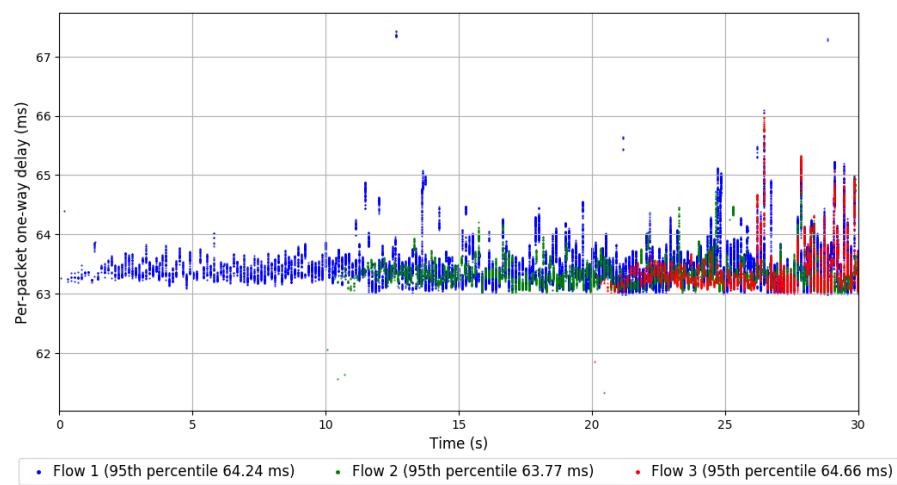
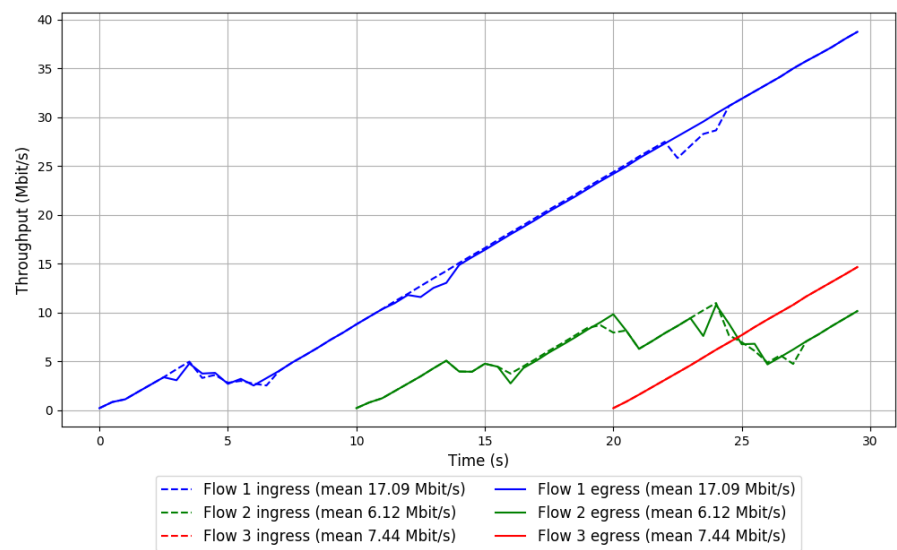
-- Flow 3:

Average throughput: 7.44 Mbit/s

95th percentile per-packet one-way delay: 64.657 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

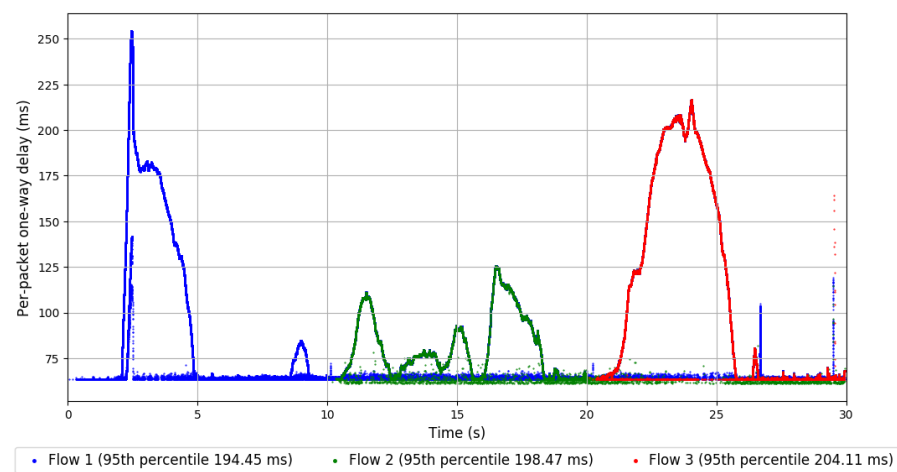
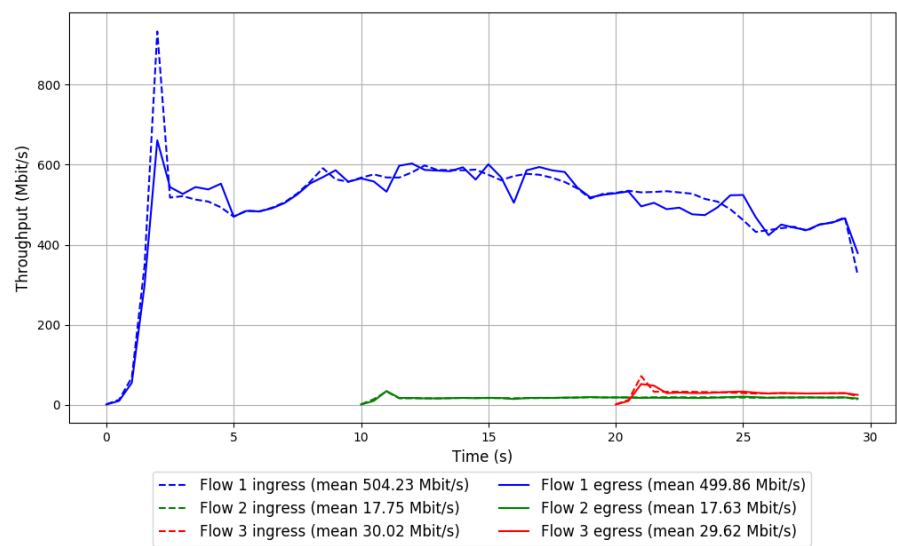


```
Run 1: Statistics of PCC

Start at: 2017-10-12 19:49:46
End at: 2017-10-12 19:50:16

# Below is generated by plot.py at 2017-10-12 23:30:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 521.30 Mbit/s
95th percentile per-packet one-way delay: 195.439 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 499.86 Mbit/s
95th percentile per-packet one-way delay: 194.447 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 17.63 Mbit/s
95th percentile per-packet one-way delay: 198.474 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 29.62 Mbit/s
95th percentile per-packet one-way delay: 204.114 ms
Loss rate: 1.38%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-10-12 20:02:29

End at: 2017-10-12 20:02:59

Below is generated by plot.py at 2017-10-12 23:30:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 523.86 Mbit/s

95th percentile per-packet one-way delay: 177.248 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 508.47 Mbit/s

95th percentile per-packet one-way delay: 176.997 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 15.32 Mbit/s

95th percentile per-packet one-way delay: 179.571 ms

Loss rate: 0.25%

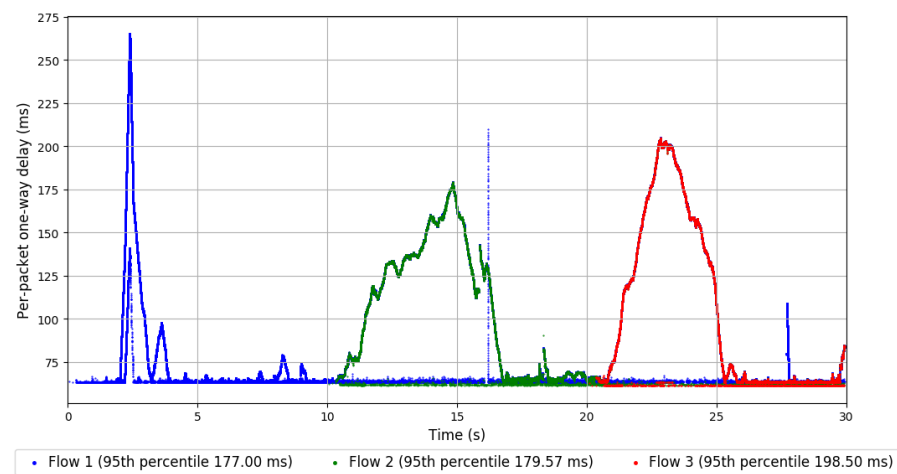
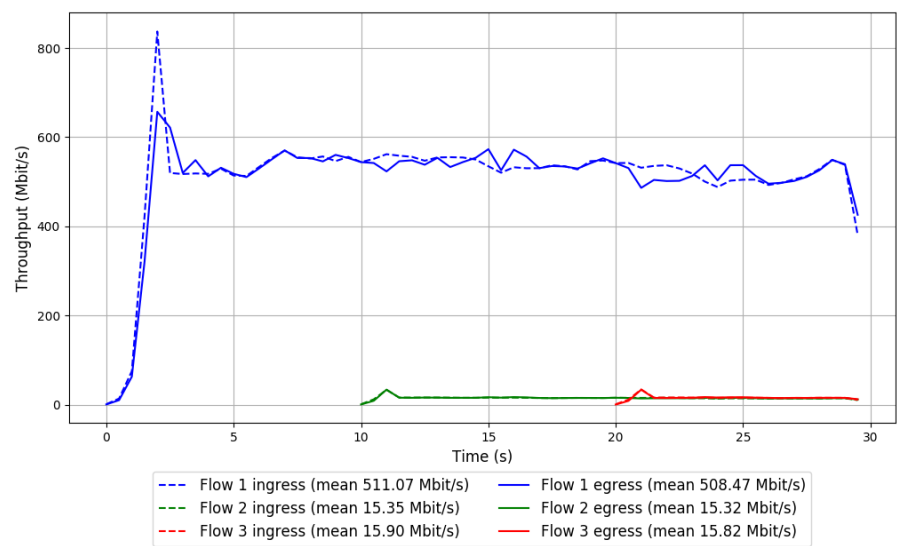
-- Flow 3:

Average throughput: 15.82 Mbit/s

95th percentile per-packet one-way delay: 198.497 ms

Loss rate: 0.52%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-10-12 20:14:28

End at: 2017-10-12 20:14:58

Below is generated by plot.py at 2017-10-12 23:30:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 495.22 Mbit/s

95th percentile per-packet one-way delay: 199.265 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 491.69 Mbit/s

95th percentile per-packet one-way delay: 199.333 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 2.70 Mbit/s

95th percentile per-packet one-way delay: 191.486 ms

Loss rate: 0.29%

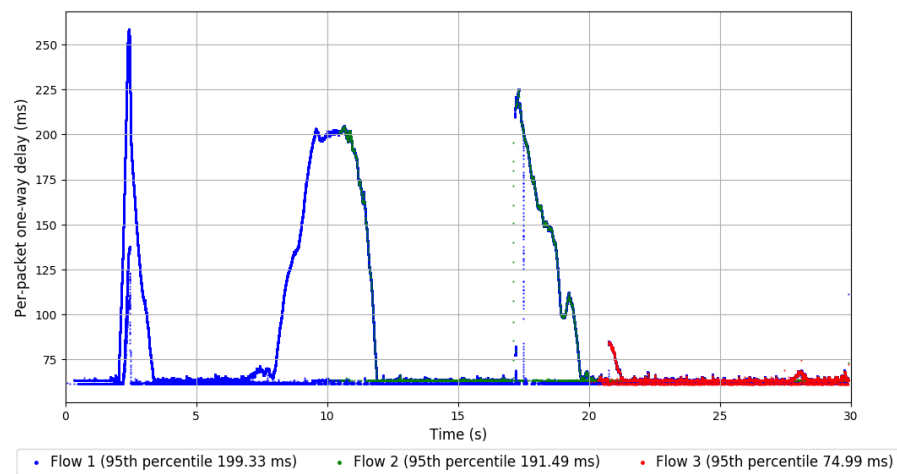
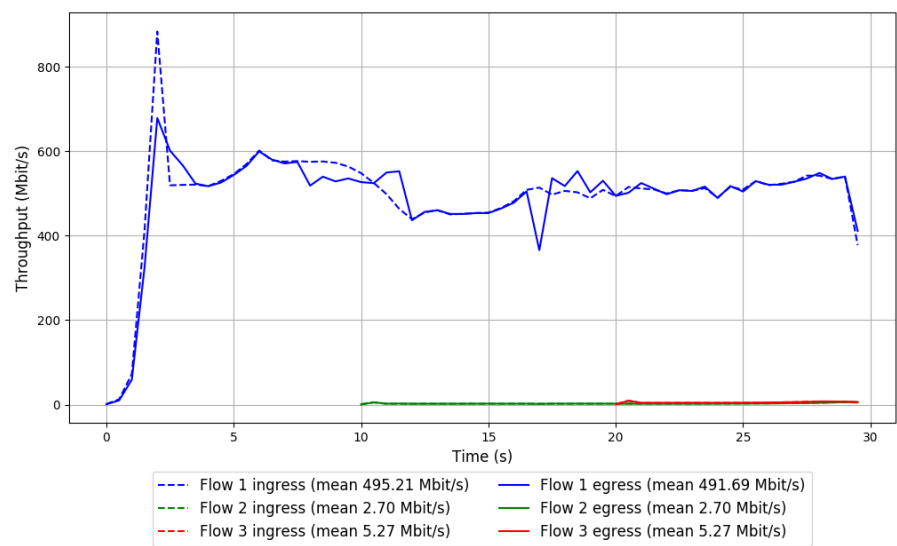
-- Flow 3:

Average throughput: 5.27 Mbit/s

95th percentile per-packet one-way delay: 74.991 ms

Loss rate: 0.00%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-10-12 20:26:36

End at: 2017-10-12 20:27:06

Below is generated by plot.py at 2017-10-12 23:30:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 538.35 Mbit/s

95th percentile per-packet one-way delay: 196.694 ms

Loss rate: 2.04%

-- Flow 1:

Average throughput: 499.36 Mbit/s

95th percentile per-packet one-way delay: 196.625 ms

Loss rate: 2.02%

-- Flow 2:

Average throughput: 57.64 Mbit/s

95th percentile per-packet one-way delay: 197.619 ms

Loss rate: 2.34%

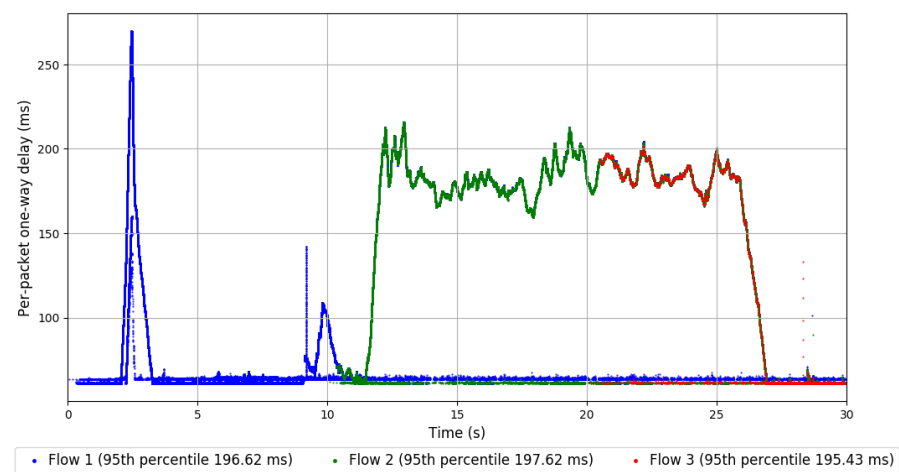
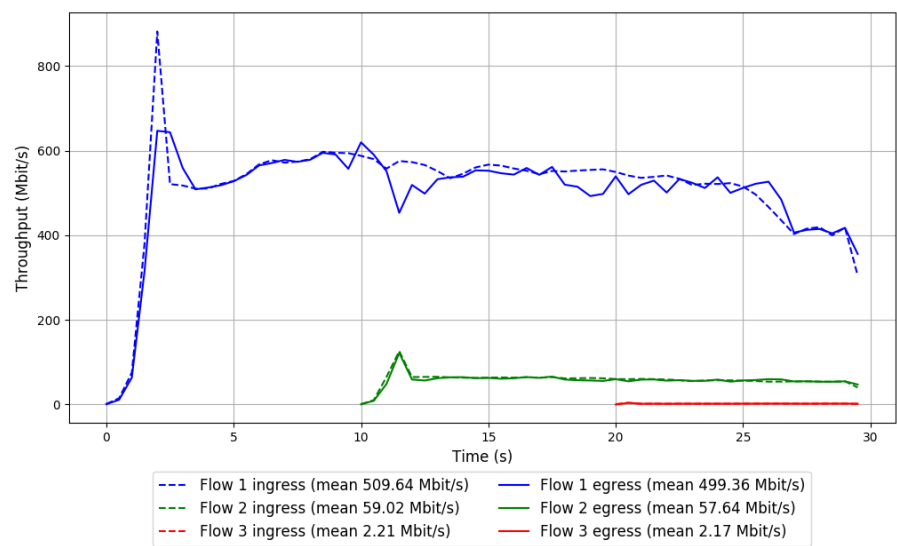
-- Flow 3:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 195.425 ms

Loss rate: 1.83%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-10-12 20:38:42

End at: 2017-10-12 20:39:12

Below is generated by plot.py at 2017-10-12 23:31:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 513.03 Mbit/s

95th percentile per-packet one-way delay: 198.849 ms

Loss rate: 1.98%

-- Flow 1:

Average throughput: 468.69 Mbit/s

95th percentile per-packet one-way delay: 198.823 ms

Loss rate: 2.00%

-- Flow 2:

Average throughput: 65.55 Mbit/s

95th percentile per-packet one-way delay: 199.048 ms

Loss rate: 1.87%

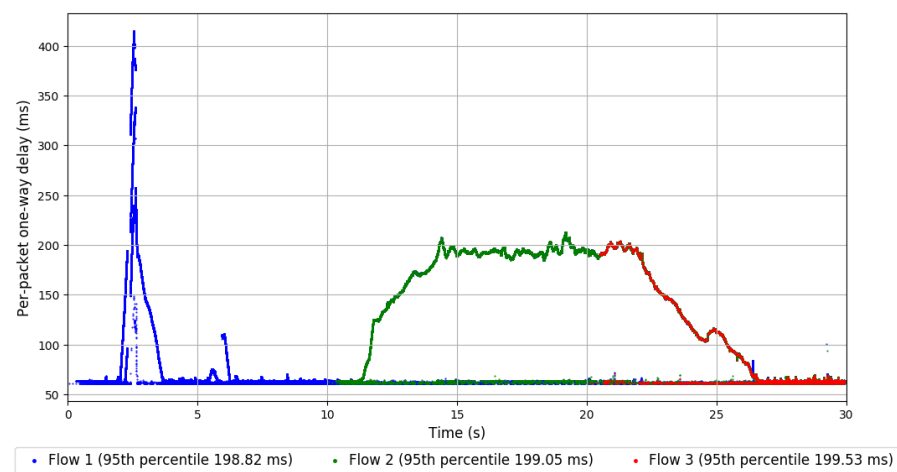
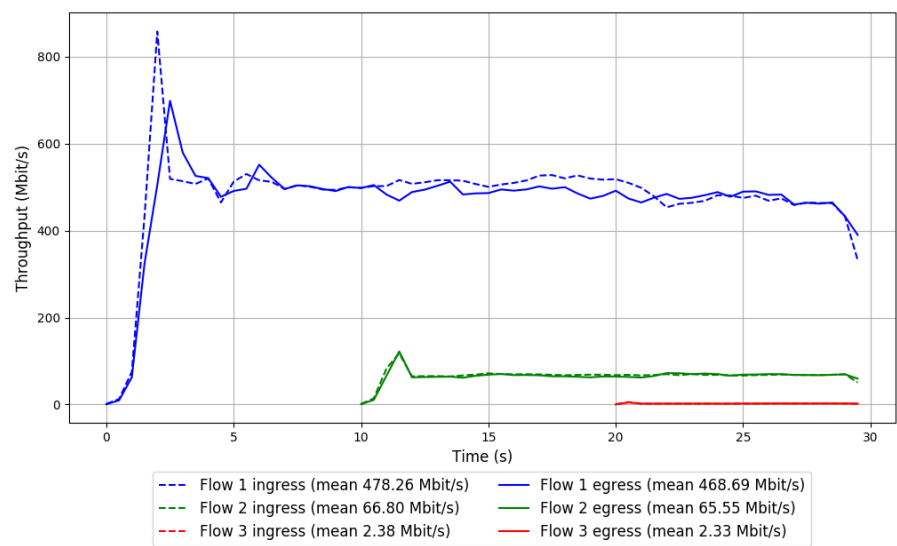
-- Flow 3:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 199.529 ms

Loss rate: 1.80%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-10-12 20:51:24

End at: 2017-10-12 20:51:54

Below is generated by plot.py at 2017-10-12 23:32:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 543.08 Mbit/s

95th percentile per-packet one-way delay: 134.578 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 515.09 Mbit/s

95th percentile per-packet one-way delay: 134.886 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 33.93 Mbit/s

95th percentile per-packet one-way delay: 121.226 ms

Loss rate: 0.00%

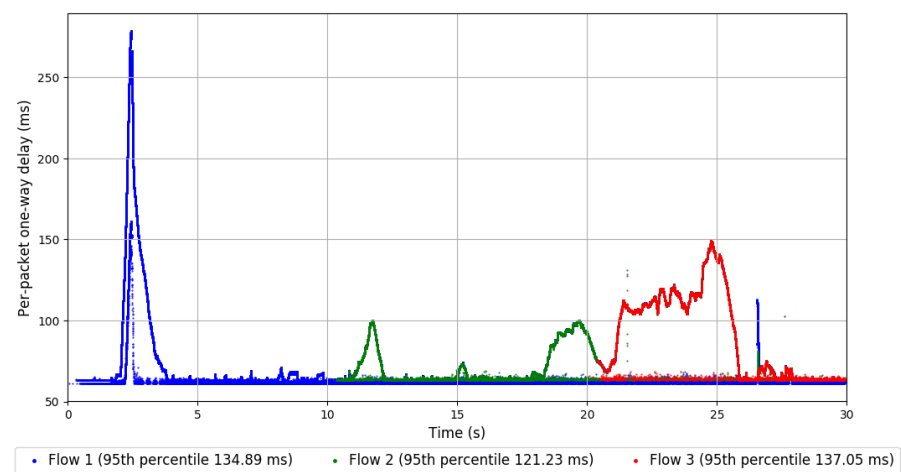
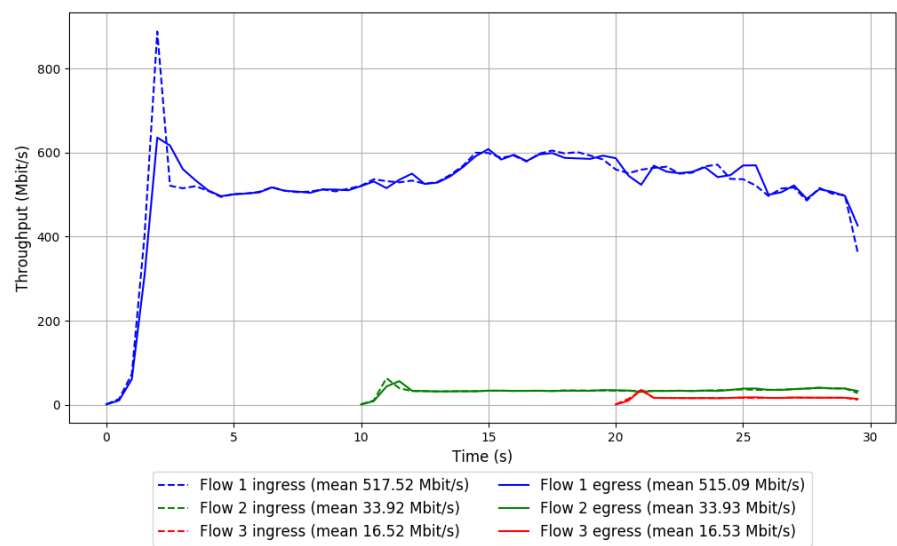
-- Flow 3:

Average throughput: 16.53 Mbit/s

95th percentile per-packet one-way delay: 137.051 ms

Loss rate: 0.00%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-10-12 21:03:59

End at: 2017-10-12 21:04:29

Below is generated by plot.py at 2017-10-12 23:33:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 575.56 Mbit/s

95th percentile per-packet one-way delay: 181.877 ms

Loss rate: 2.38%

-- Flow 1:

Average throughput: 477.99 Mbit/s

95th percentile per-packet one-way delay: 181.864 ms

Loss rate: 2.29%

-- Flow 2:

Average throughput: 116.65 Mbit/s

95th percentile per-packet one-way delay: 182.173 ms

Loss rate: 2.62%

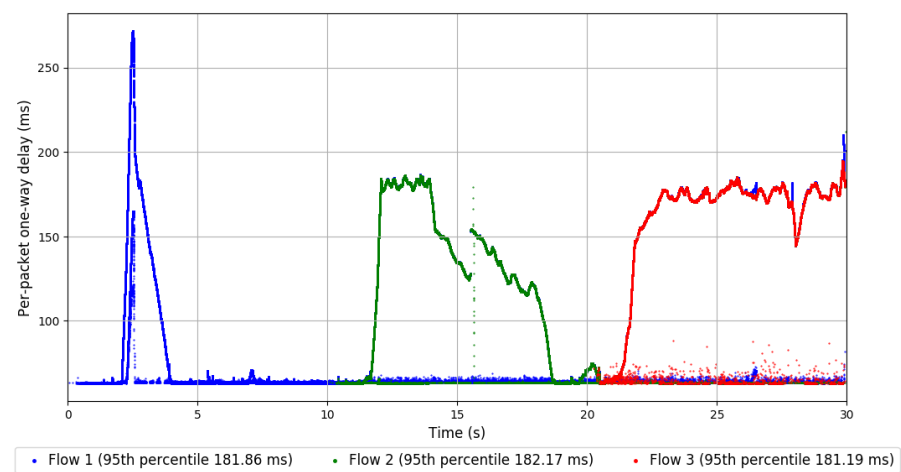
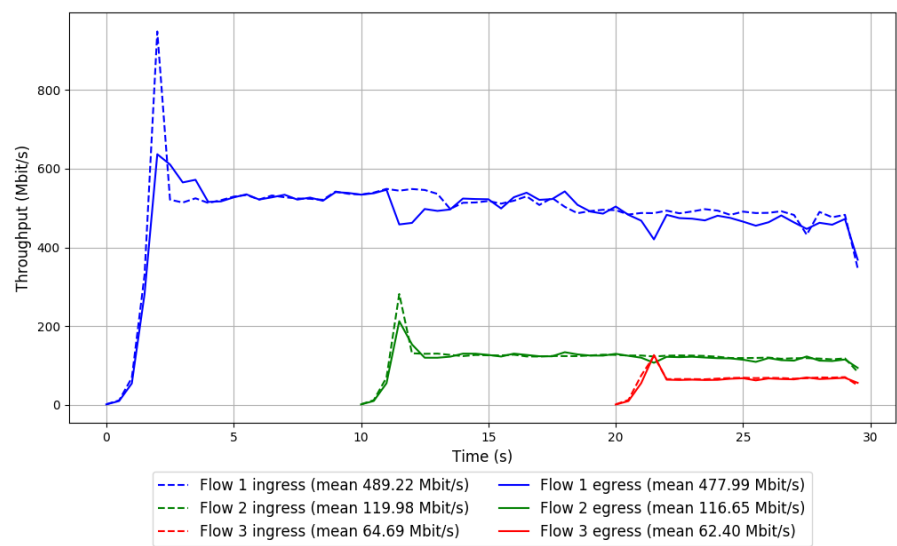
-- Flow 3:

Average throughput: 62.40 Mbit/s

95th percentile per-packet one-way delay: 181.189 ms

Loss rate: 3.54%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-10-12 21:16:43

End at: 2017-10-12 21:17:13

Below is generated by plot.py at 2017-10-12 23:33:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 357.98 Mbit/s

95th percentile per-packet one-way delay: 167.433 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 99.11 Mbit/s

95th percentile per-packet one-way delay: 164.007 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 373.74 Mbit/s

95th percentile per-packet one-way delay: 168.154 ms

Loss rate: 0.47%

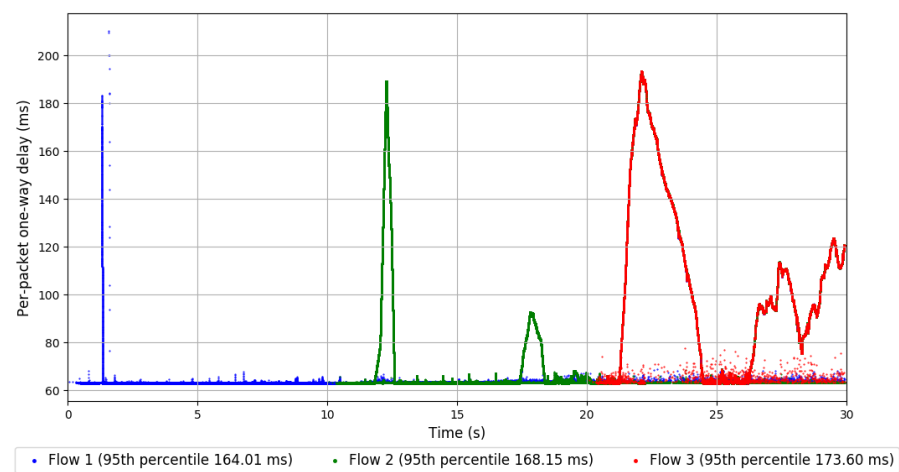
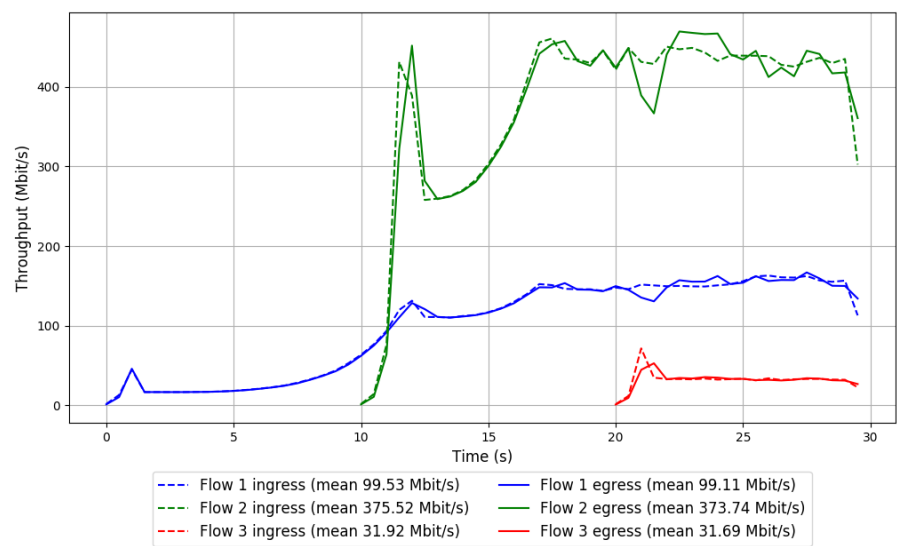
-- Flow 3:

Average throughput: 31.69 Mbit/s

95th percentile per-packet one-way delay: 173.602 ms

Loss rate: 0.75%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-10-12 21:29:13

End at: 2017-10-12 21:29:43

Below is generated by plot.py at 2017-10-12 23:37:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 429.30 Mbit/s

95th percentile per-packet one-way delay: 188.562 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 376.96 Mbit/s

95th percentile per-packet one-way delay: 188.173 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 63.46 Mbit/s

95th percentile per-packet one-way delay: 189.092 ms

Loss rate: 0.80%

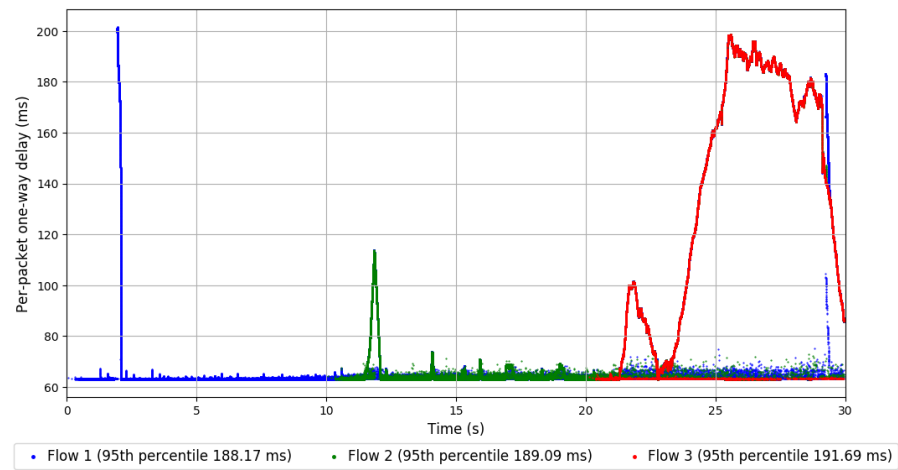
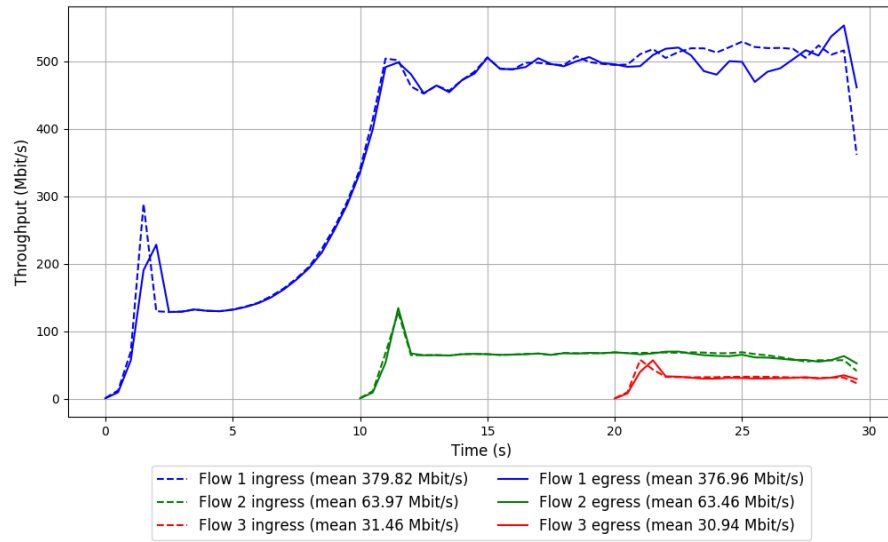
-- Flow 3:

Average throughput: 30.94 Mbit/s

95th percentile per-packet one-way delay: 191.689 ms

Loss rate: 1.63%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-10-12 21:41:49

End at: 2017-10-12 21:42:19

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 544.52 Mbit/s

95th percentile per-packet one-way delay: 192.885 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 520.56 Mbit/s

95th percentile per-packet one-way delay: 193.163 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 4.50 Mbit/s

95th percentile per-packet one-way delay: 192.447 ms

Loss rate: 1.17%

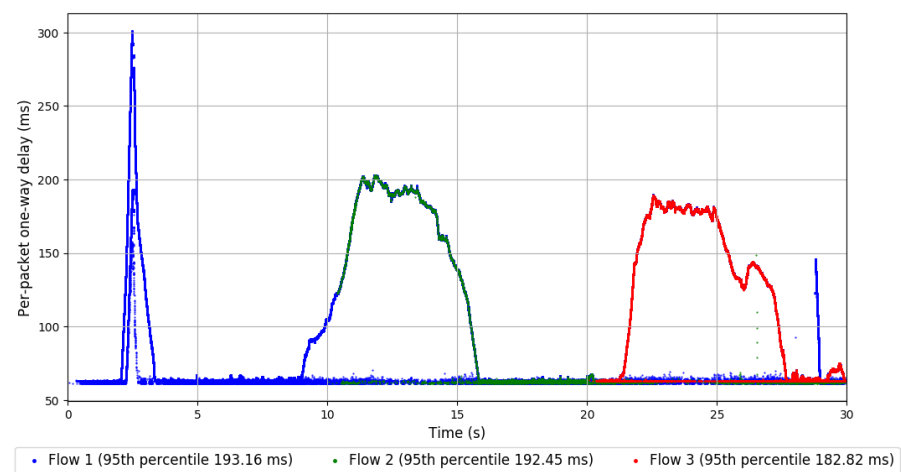
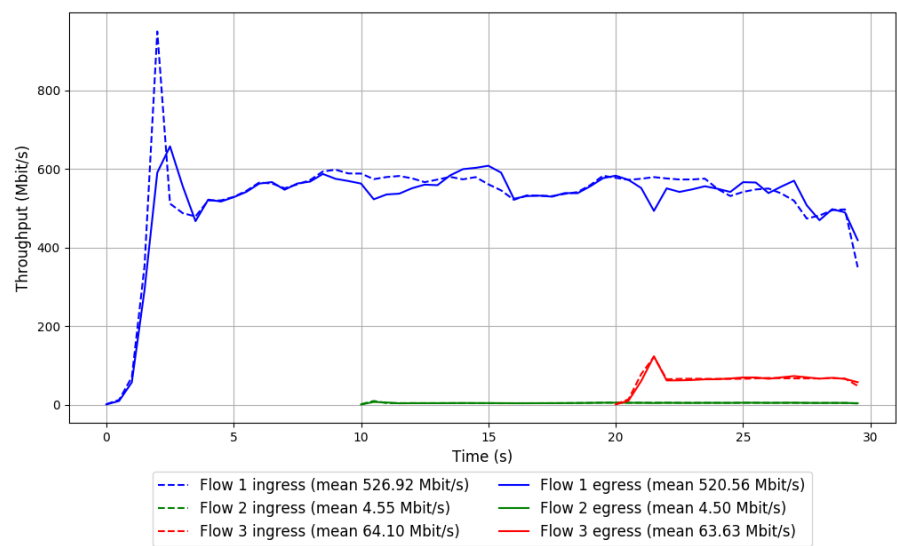
-- Flow 3:

Average throughput: 63.63 Mbit/s

95th percentile per-packet one-way delay: 182.819 ms

Loss rate: 0.74%

Run 10: Report of PCC — Data Link

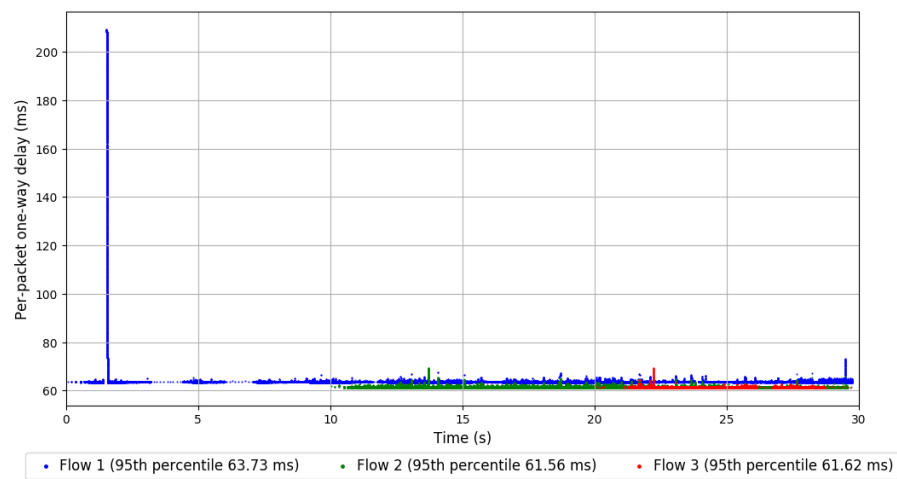
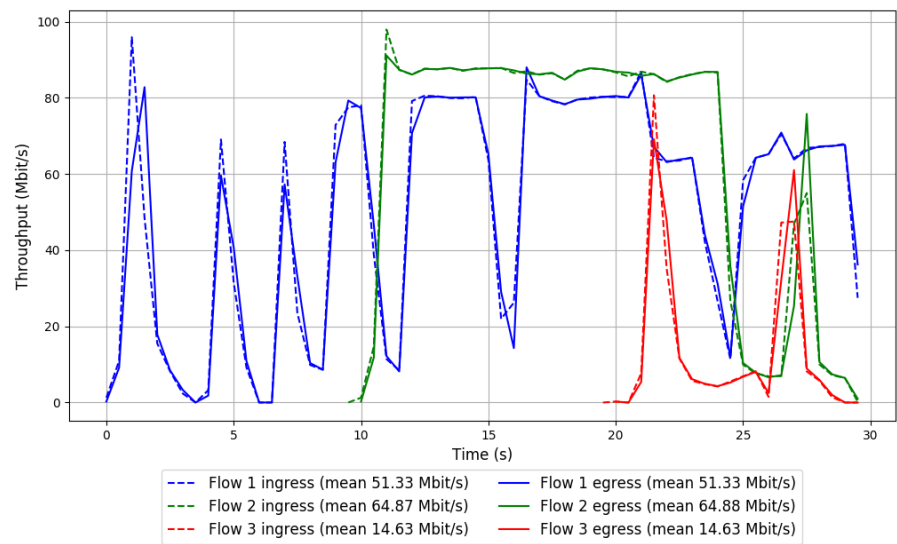


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-10-12 19:46:43
End at: 2017-10-12 19:47:13

# Below is generated by plot.py at 2017-10-12 23:39:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 99.04 Mbit/s
95th percentile per-packet one-way delay: 63.653 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.33 Mbit/s
95th percentile per-packet one-way delay: 63.734 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 64.88 Mbit/s
95th percentile per-packet one-way delay: 61.556 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.63 Mbit/s
95th percentile per-packet one-way delay: 61.618 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-10-12 19:59:26

End at: 2017-10-12 19:59:56

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.26 Mbit/s

95th percentile per-packet one-way delay: 63.621 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 61.80 Mbit/s

95th percentile per-packet one-way delay: 63.677 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.64 Mbit/s

95th percentile per-packet one-way delay: 63.530 ms

Loss rate: 0.01%

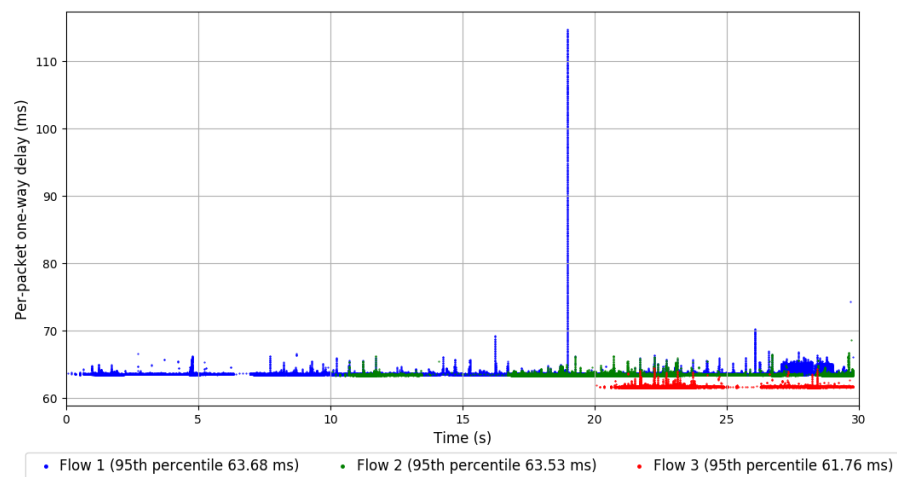
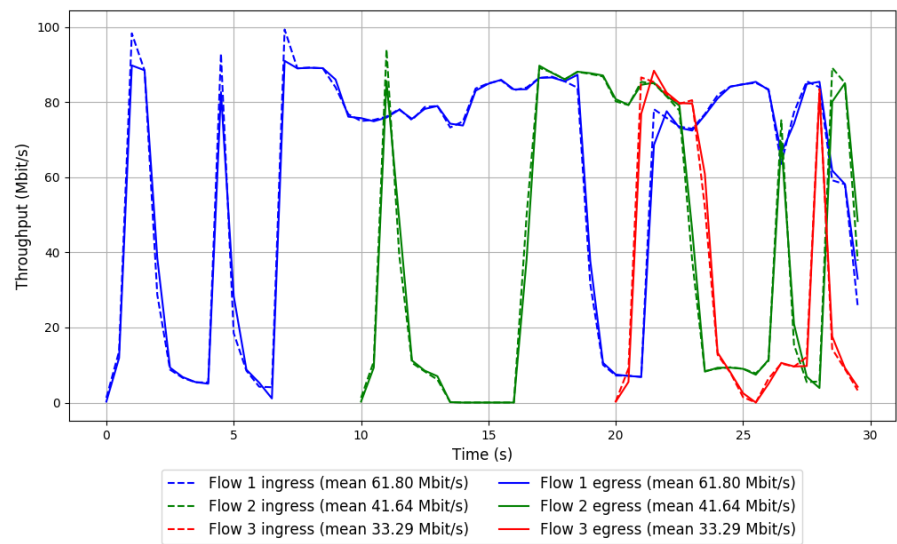
-- Flow 3:

Average throughput: 33.29 Mbit/s

95th percentile per-packet one-way delay: 61.764 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-10-12 20:11:26

End at: 2017-10-12 20:11:56

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.96 Mbit/s

95th percentile per-packet one-way delay: 63.584 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 47.39 Mbit/s

95th percentile per-packet one-way delay: 63.605 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 55.84 Mbit/s

95th percentile per-packet one-way delay: 63.552 ms

Loss rate: 0.01%

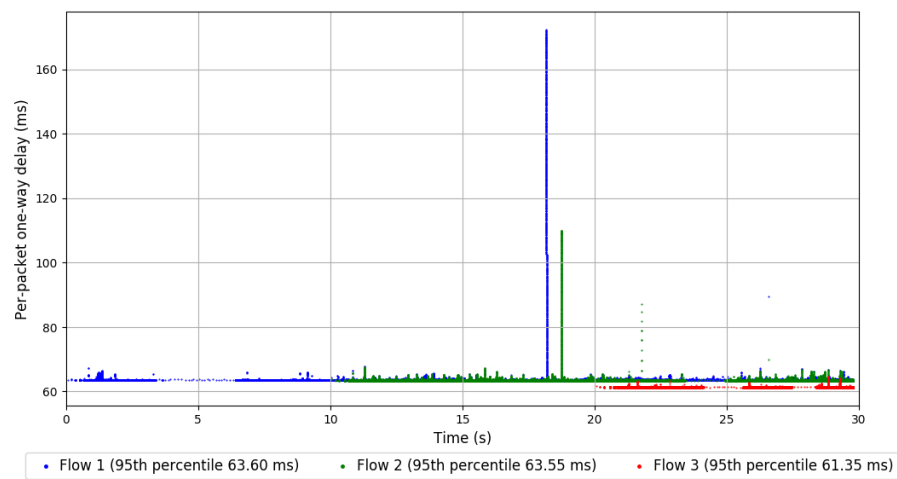
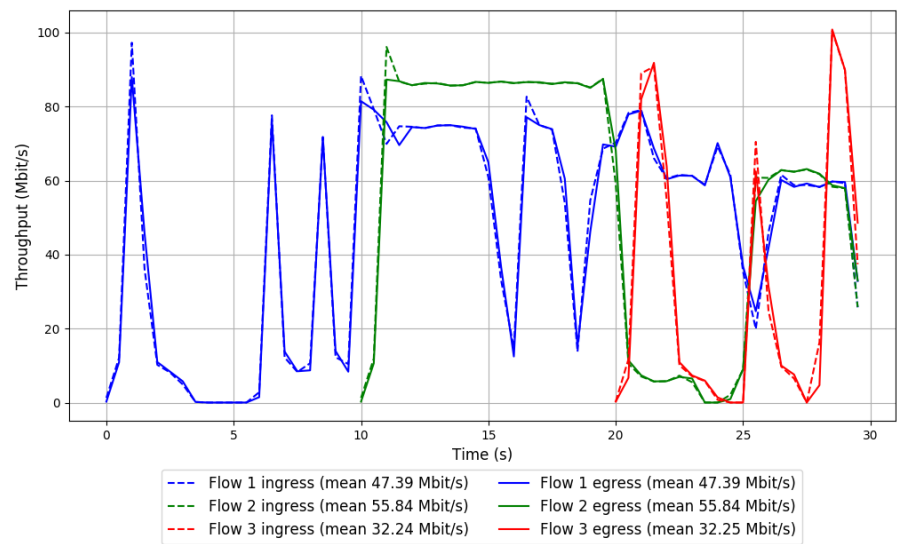
-- Flow 3:

Average throughput: 32.25 Mbit/s

95th percentile per-packet one-way delay: 61.347 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-10-12 20:23:30

End at: 2017-10-12 20:24:00

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.16 Mbit/s

95th percentile per-packet one-way delay: 63.519 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.97 Mbit/s

95th percentile per-packet one-way delay: 61.304 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 53.75 Mbit/s

95th percentile per-packet one-way delay: 63.597 ms

Loss rate: 0.00%

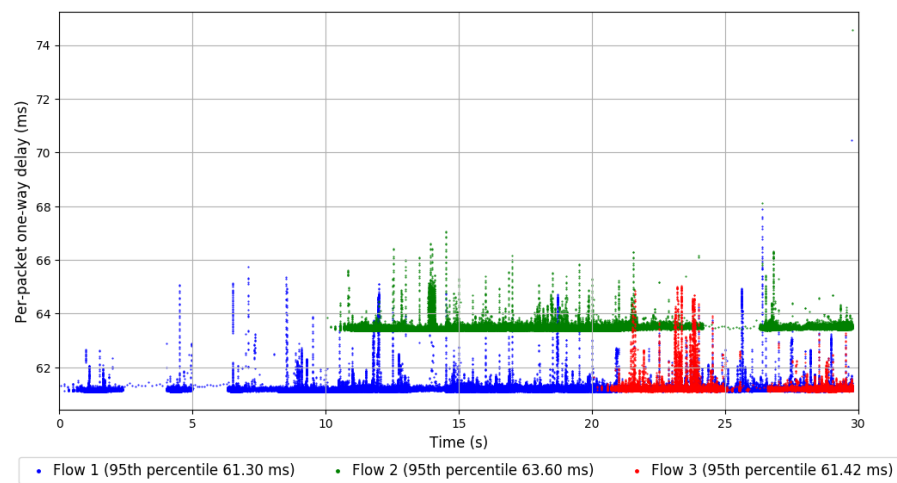
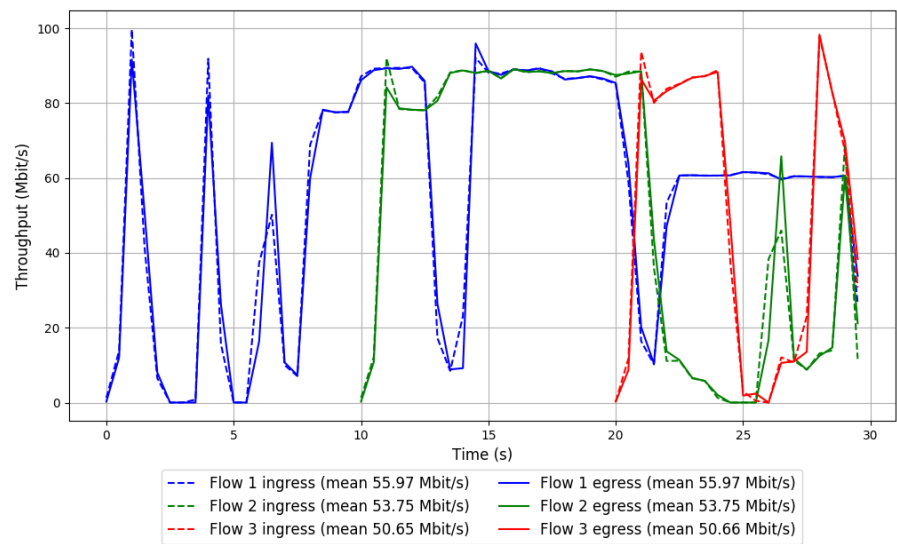
-- Flow 3:

Average throughput: 50.66 Mbit/s

95th percentile per-packet one-way delay: 61.418 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-10-12 20:35:39

End at: 2017-10-12 20:36:09

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 106.96 Mbit/s

95th percentile per-packet one-way delay: 63.362 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 39.97 Mbit/s

95th percentile per-packet one-way delay: 61.330 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 65.84 Mbit/s

95th percentile per-packet one-way delay: 61.405 ms

Loss rate: 0.00%

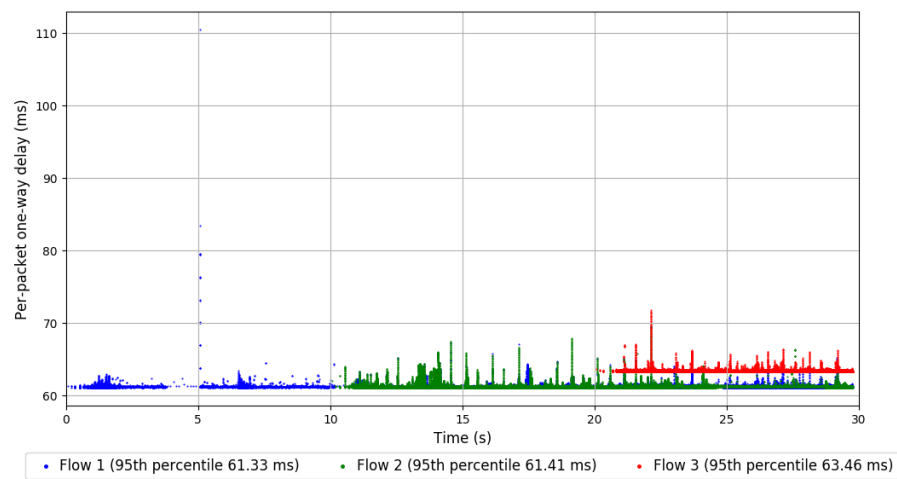
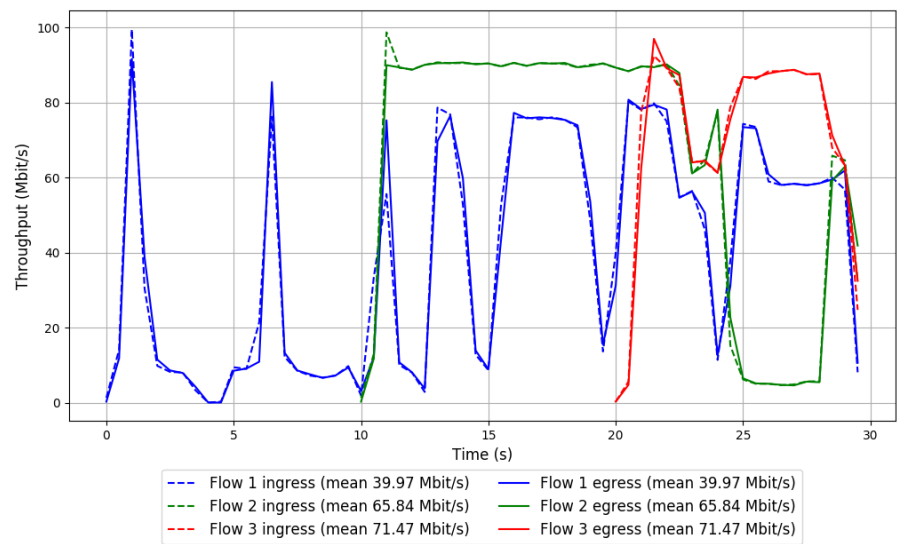
-- Flow 3:

Average throughput: 71.47 Mbit/s

95th percentile per-packet one-way delay: 63.463 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-10-12 20:48:19

End at: 2017-10-12 20:48:49

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.48 Mbit/s

95th percentile per-packet one-way delay: 63.408 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 45.61 Mbit/s

95th percentile per-packet one-way delay: 63.218 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.07 Mbit/s

95th percentile per-packet one-way delay: 61.165 ms

Loss rate: 0.00%

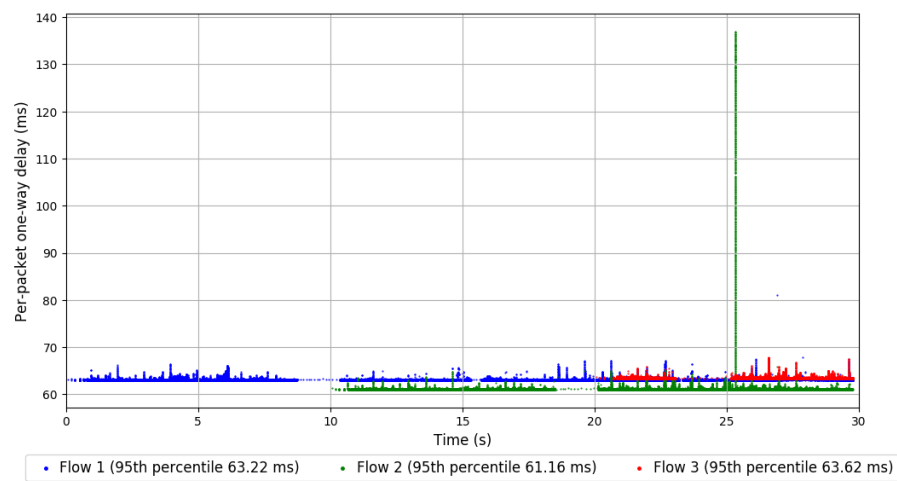
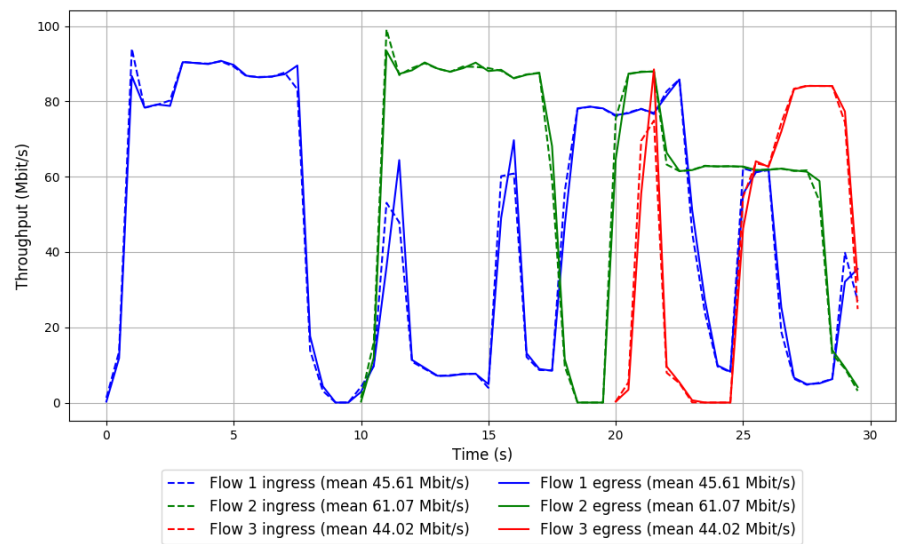
-- Flow 3:

Average throughput: 44.02 Mbit/s

95th percentile per-packet one-way delay: 63.615 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-10-12 21:00:56

End at: 2017-10-12 21:01:26

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.29 Mbit/s

95th percentile per-packet one-way delay: 63.113 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.51 Mbit/s

95th percentile per-packet one-way delay: 61.416 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.52 Mbit/s

95th percentile per-packet one-way delay: 63.191 ms

Loss rate: 0.00%

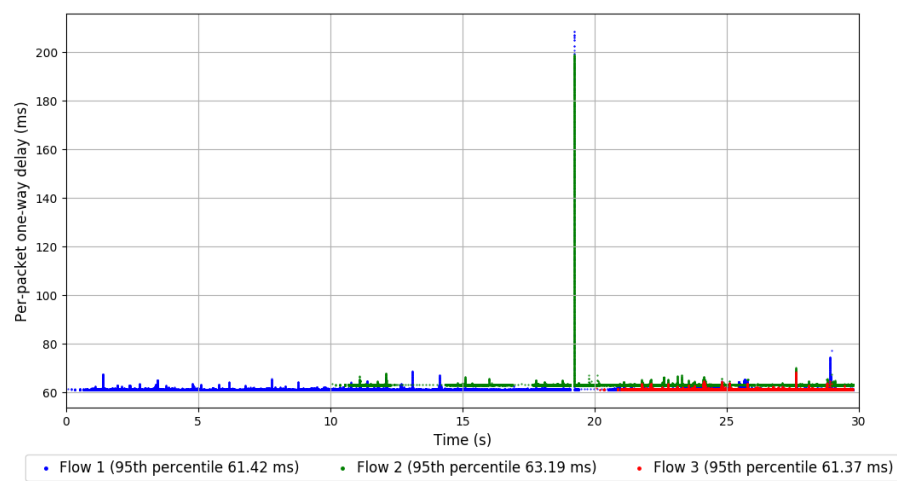
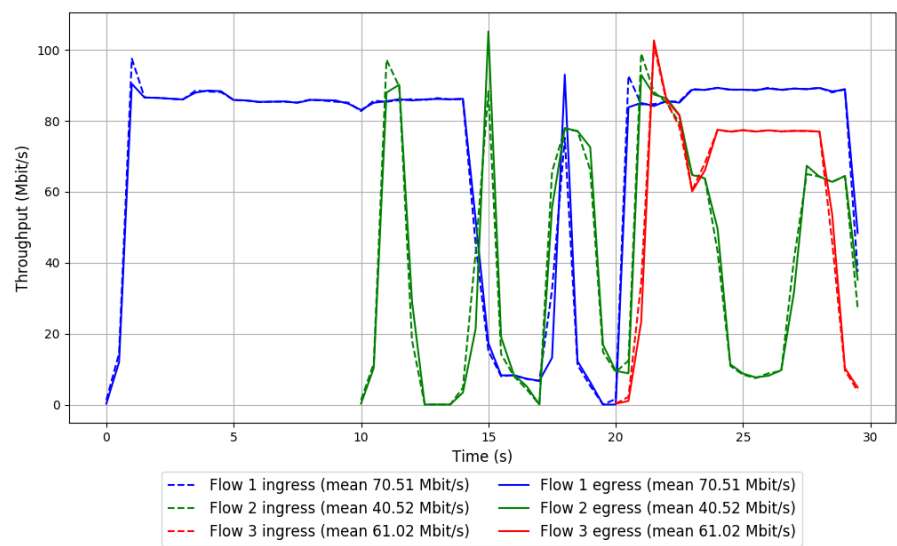
-- Flow 3:

Average throughput: 61.02 Mbit/s

95th percentile per-packet one-way delay: 61.374 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-10-12 21:13:39

End at: 2017-10-12 21:14:09

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 110.42 Mbit/s

95th percentile per-packet one-way delay: 63.165 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 59.05 Mbit/s

95th percentile per-packet one-way delay: 63.183 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 68.26 Mbit/s

95th percentile per-packet one-way delay: 63.134 ms

Loss rate: 0.00%

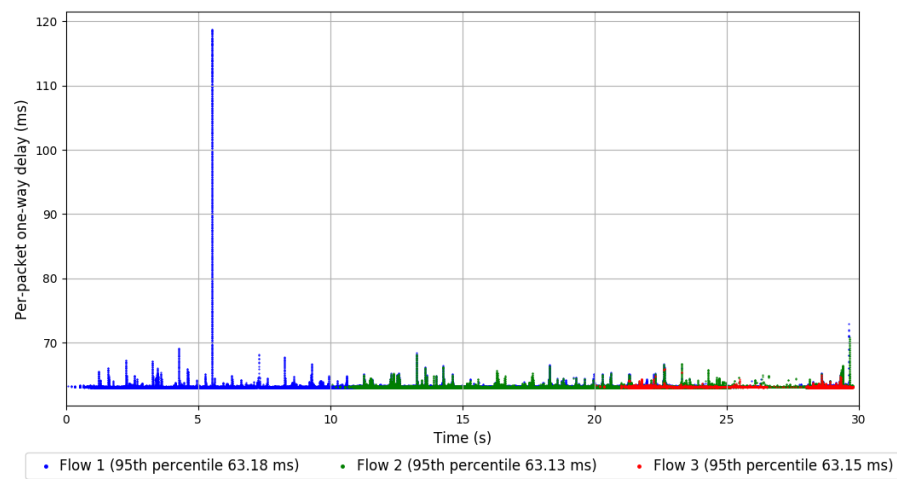
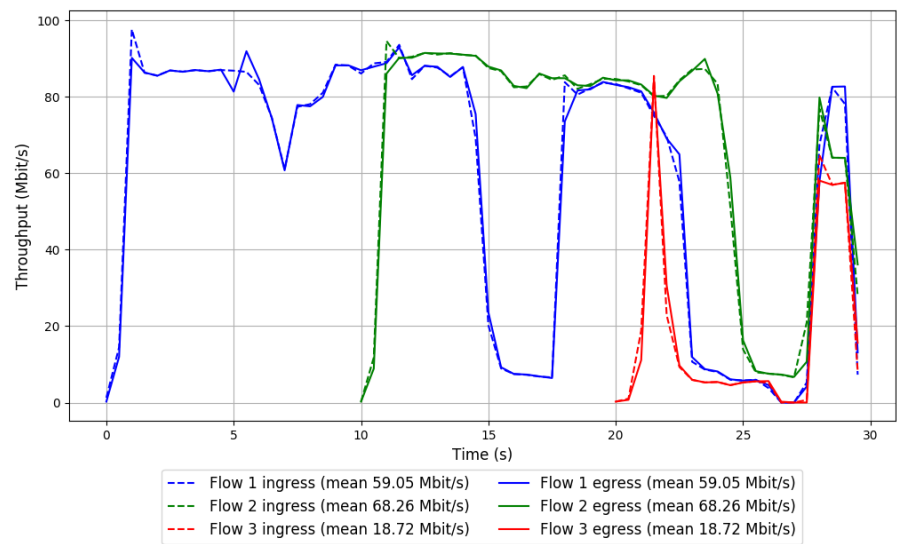
-- Flow 3:

Average throughput: 18.72 Mbit/s

95th percentile per-packet one-way delay: 63.153 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-10-12 21:26:10

End at: 2017-10-12 21:26:40

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 63.253 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 40.53 Mbit/s

95th percentile per-packet one-way delay: 63.229 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 54.67 Mbit/s

95th percentile per-packet one-way delay: 61.278 ms

Loss rate: 0.00%

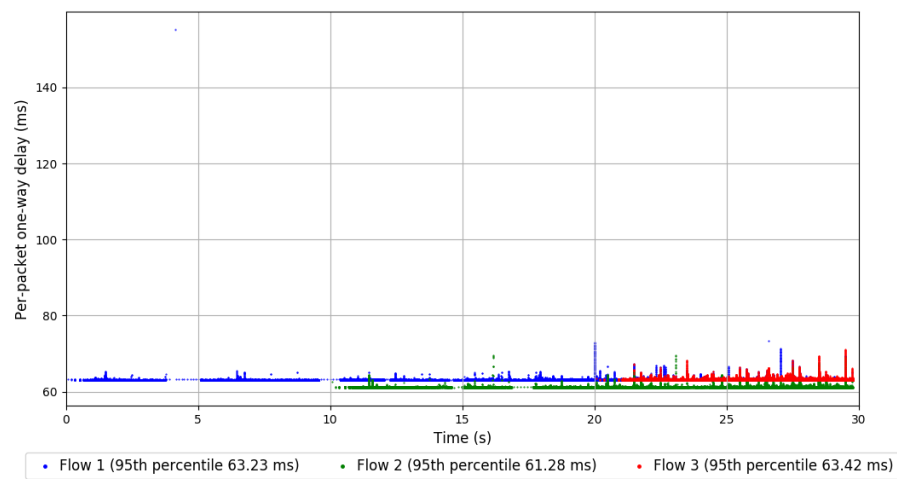
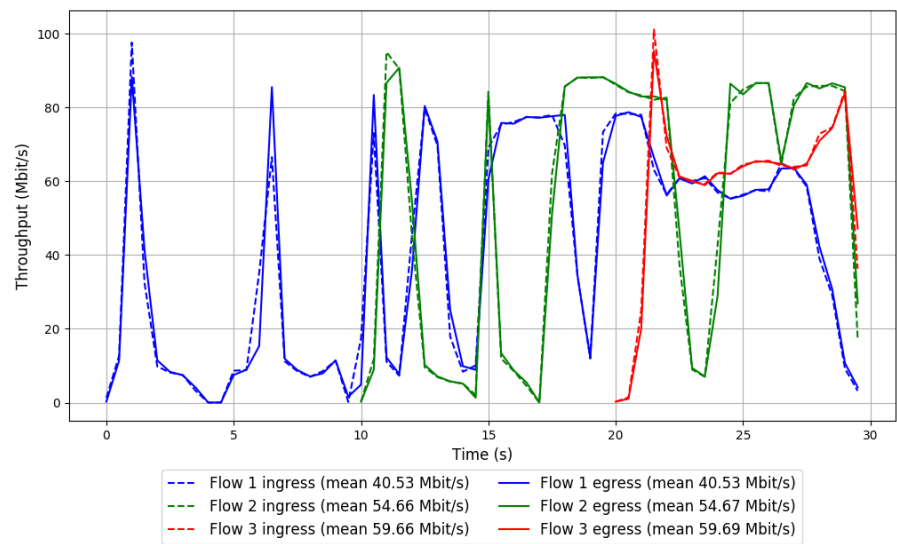
-- Flow 3:

Average throughput: 59.69 Mbit/s

95th percentile per-packet one-way delay: 63.421 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

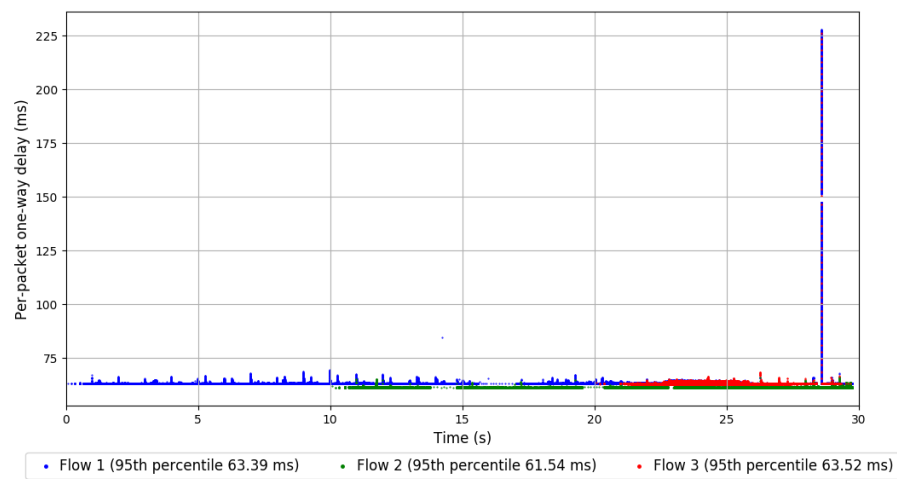
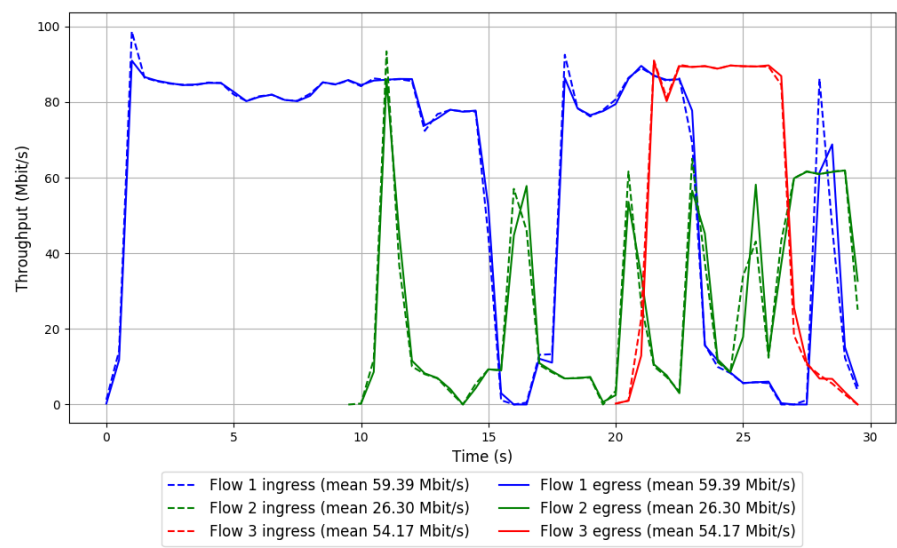


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-10-12 21:38:46
End at: 2017-10-12 21:39:16

# Below is generated by plot.py at 2017-10-12 23:39:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.35 Mbit/s
95th percentile per-packet one-way delay: 63.363 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.39 Mbit/s
95th percentile per-packet one-way delay: 63.390 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 26.30 Mbit/s
95th percentile per-packet one-way delay: 61.540 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 54.17 Mbit/s
95th percentile per-packet one-way delay: 63.515 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

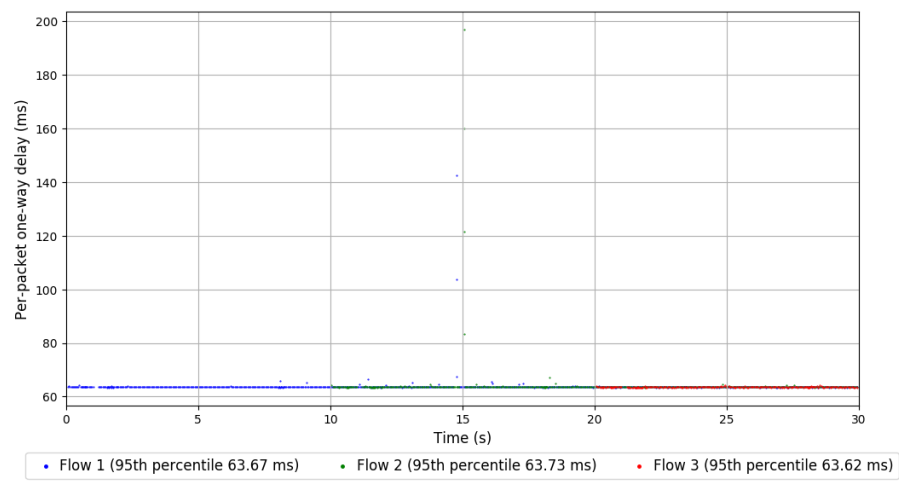
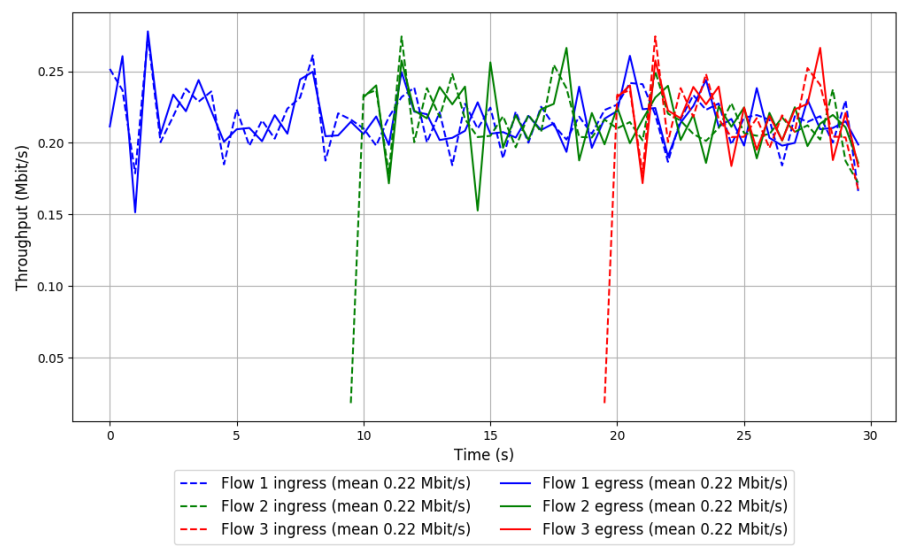


```
Run 1: Statistics of SCReAM

Start at: 2017-10-12 19:47:30
End at: 2017-10-12 19:48:00

# Below is generated by plot.py at 2017-10-12 23:39:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.693 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.666 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.732 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.615 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

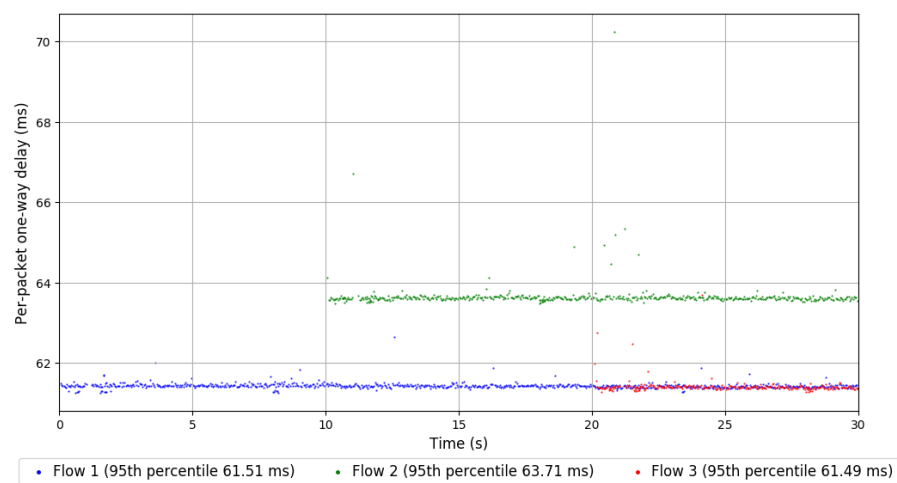
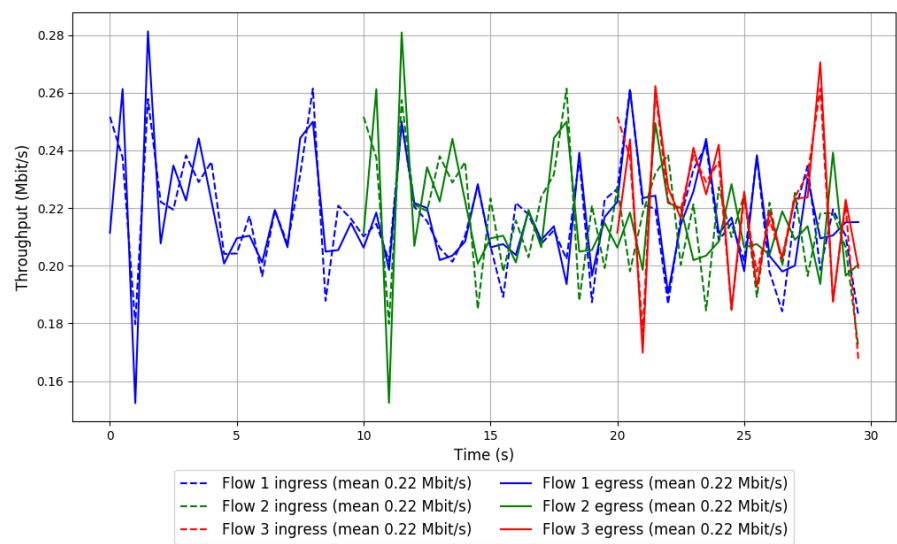


```
Run 2: Statistics of SReAM

Start at: 2017-10-12 20:00:13
End at: 2017-10-12 20:00:43

# Below is generated by plot.py at 2017-10-12 23:39:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.661 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.509 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.712 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.486 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

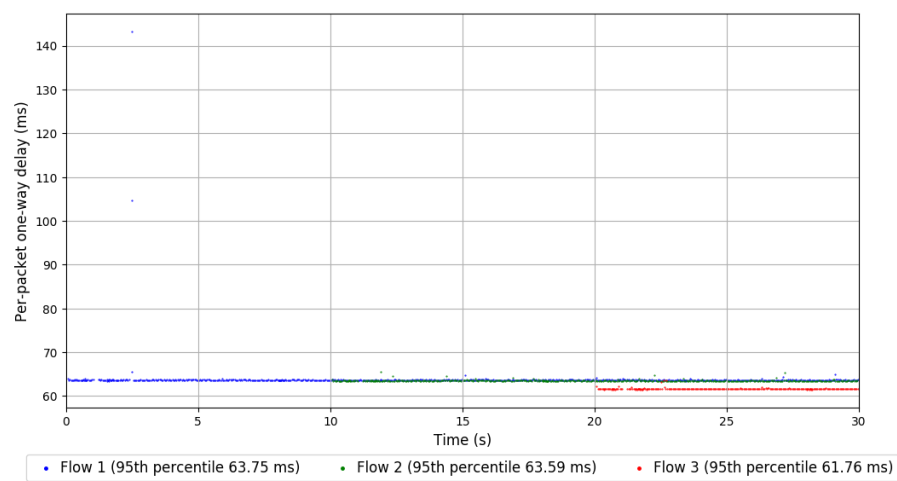
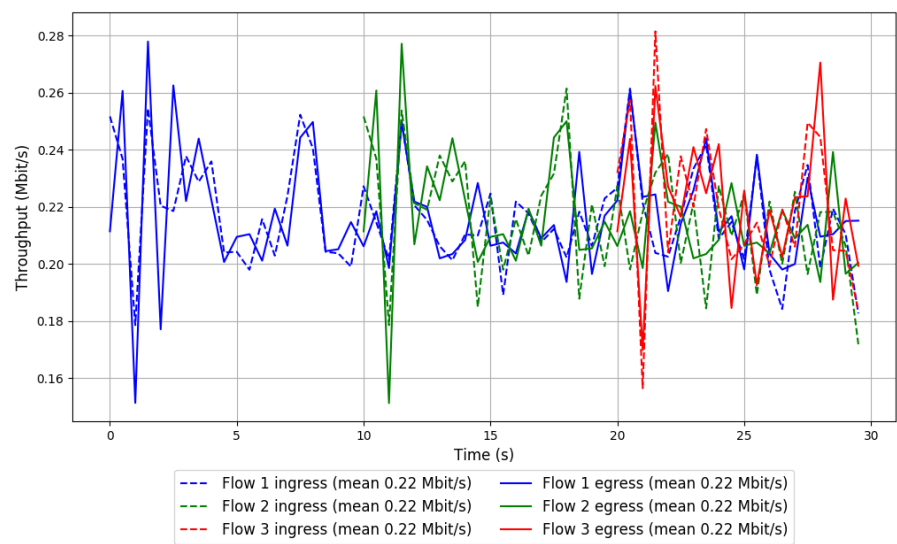


```
Run 3: Statistics of SCReAM

Start at: 2017-10-12 20:12:13
End at: 2017-10-12 20:12:43

# Below is generated by plot.py at 2017-10-12 23:39:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.726 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.749 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.591 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.758 ms
Loss rate: 0.00%
```


Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2017-10-12 20:24:17

End at: 2017-10-12 20:24:47

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 63.666 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.834 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.656 ms

Loss rate: 0.00%

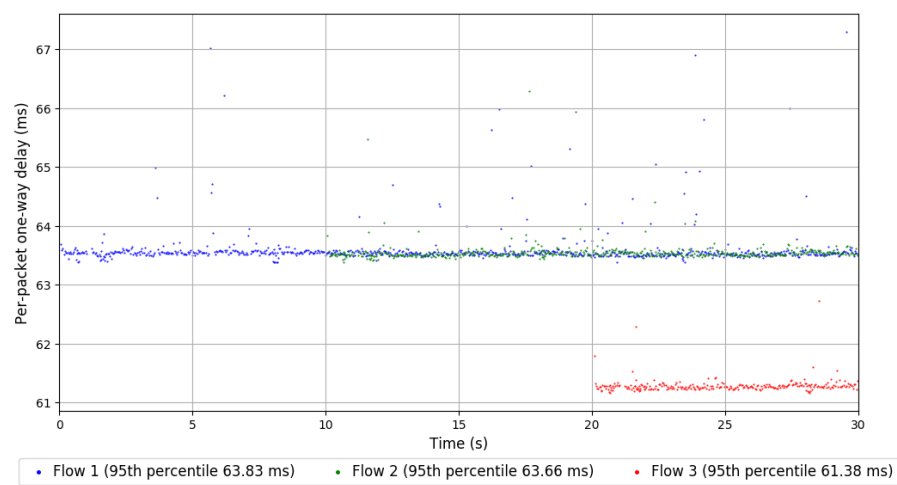
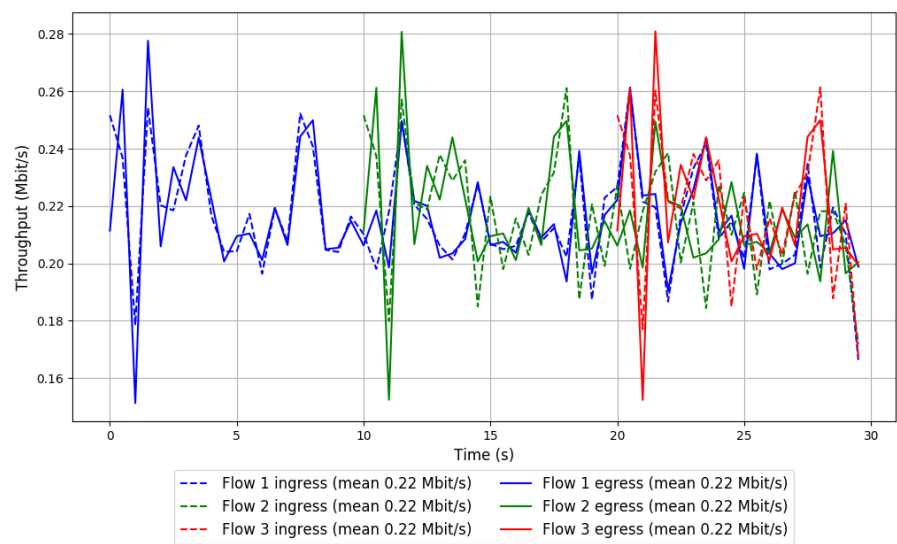
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.383 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2017-10-12 20:36:27

End at: 2017-10-12 20:36:57

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 63.555 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.369 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.583 ms

Loss rate: 0.00%

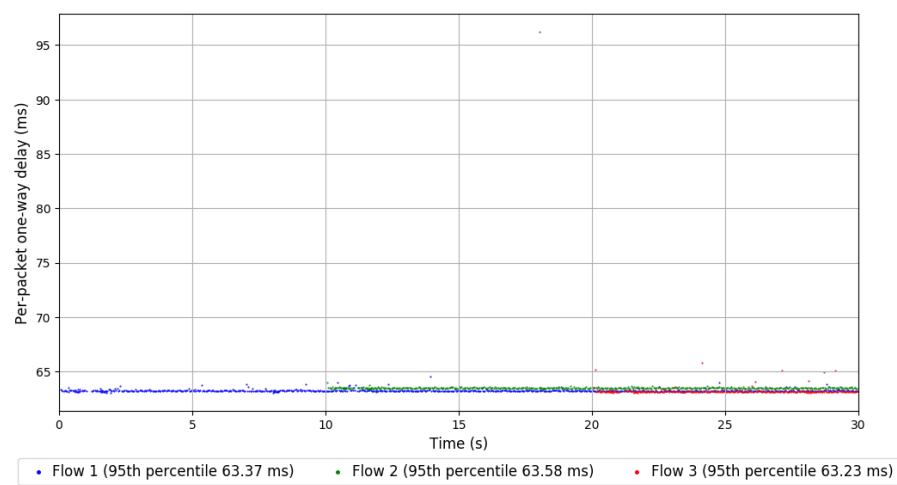
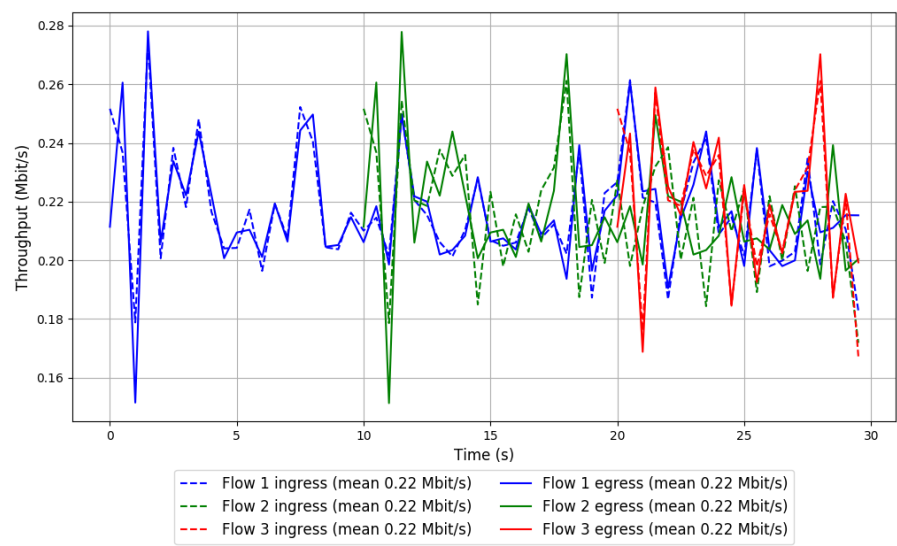
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.235 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-10-12 20:49:06

End at: 2017-10-12 20:49:36

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 63.634 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.768 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.569 ms

Loss rate: 0.00%

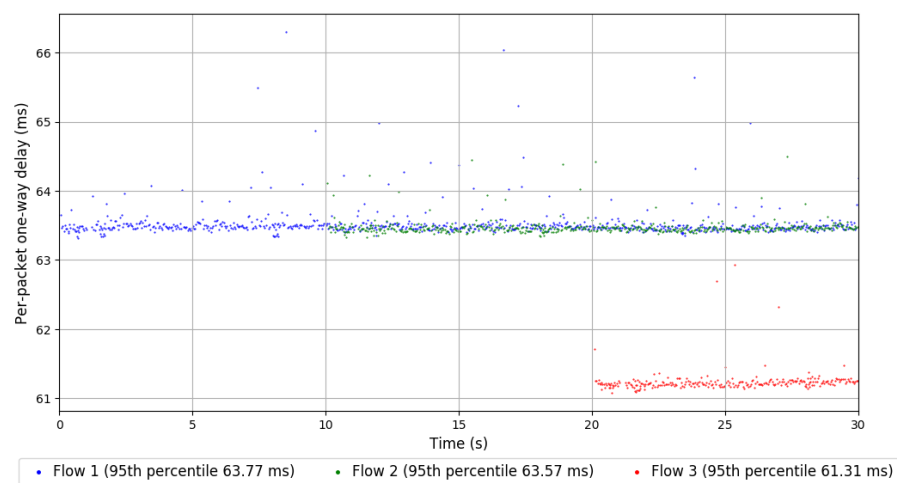
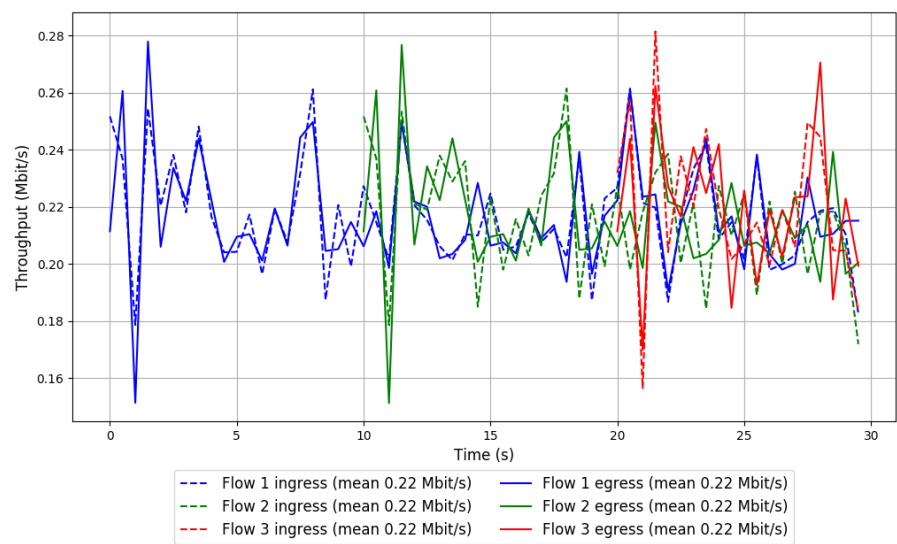
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.309 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

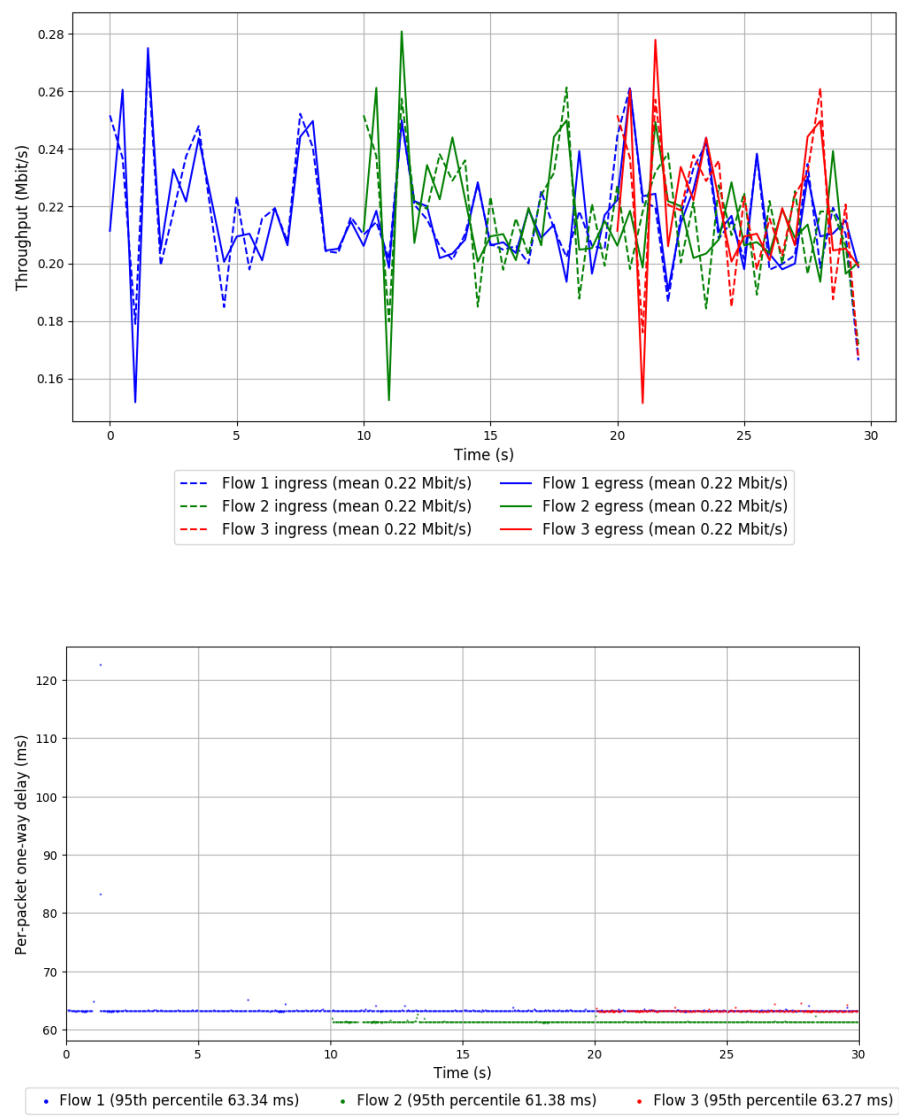


```
Run 7: Statistics of SCReAM

Start at: 2017-10-12 21:01:44
End at: 2017-10-12 21:02:14

# Below is generated by plot.py at 2017-10-12 23:39:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.302 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.335 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.384 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.275 ms
Loss rate: 0.00%
```


Run 7: Report of SCRaM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-10-12 21:14:27

End at: 2017-10-12 21:14:57

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 63.480 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.392 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.274 ms

Loss rate: 0.00%

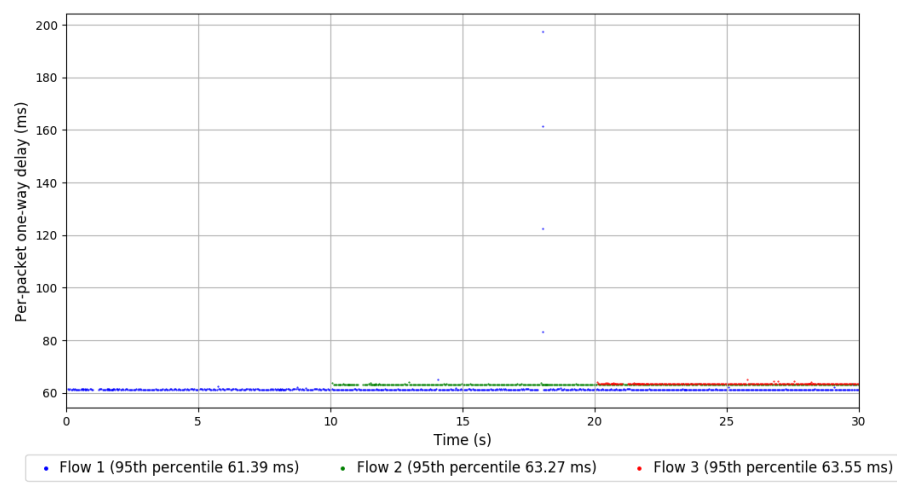
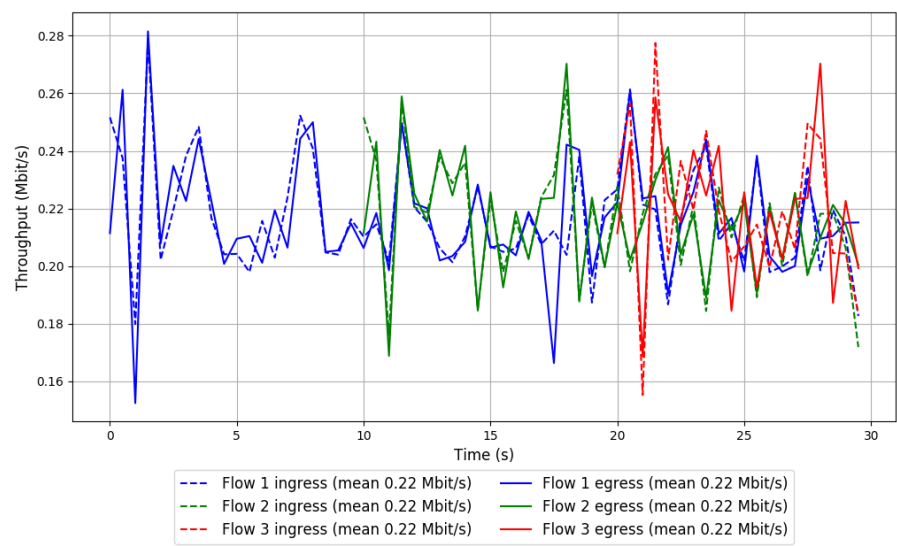
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.555 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-10-12 21:26:57

End at: 2017-10-12 21:27:27

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 63.454 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.478 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.362 ms

Loss rate: 0.00%

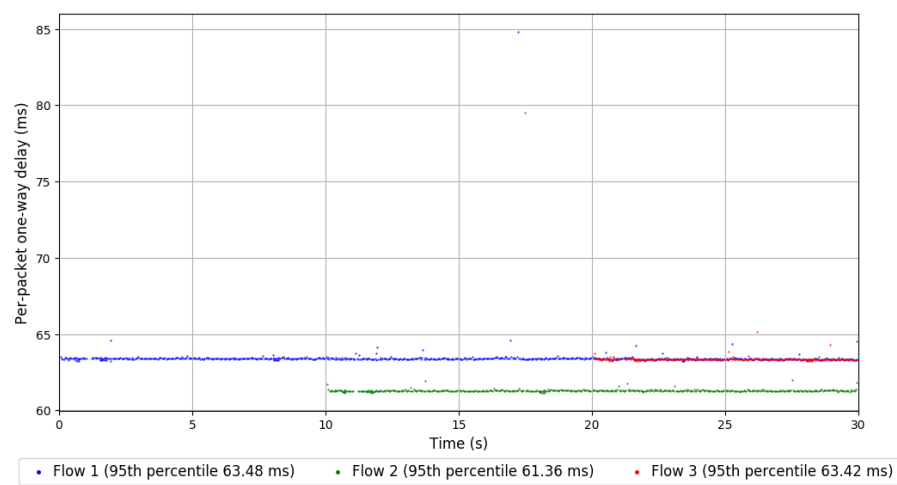
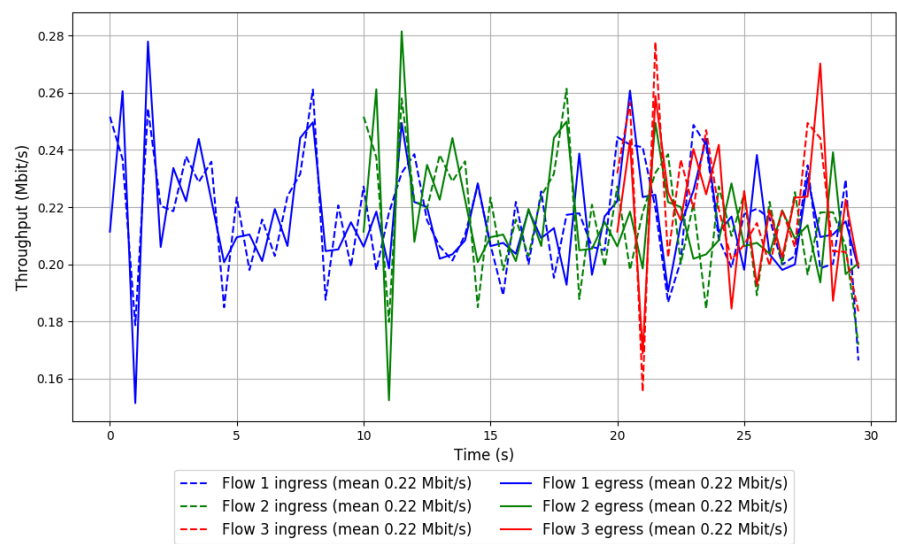
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.422 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

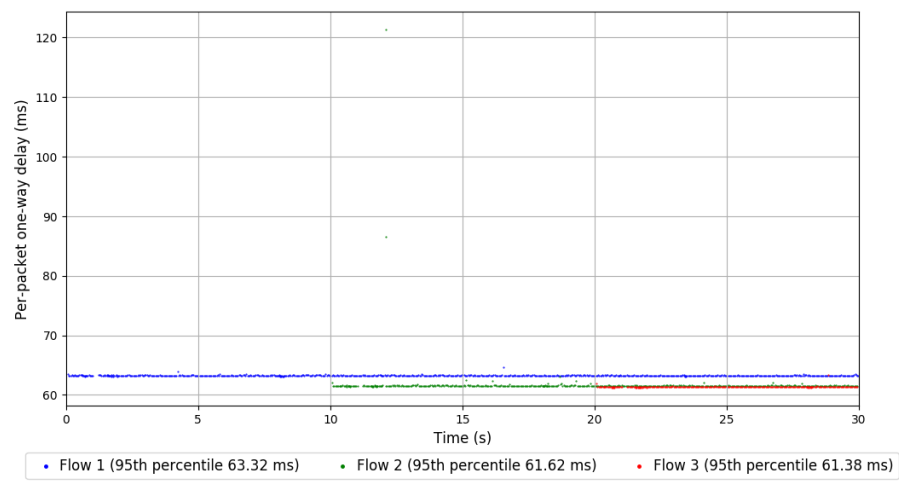
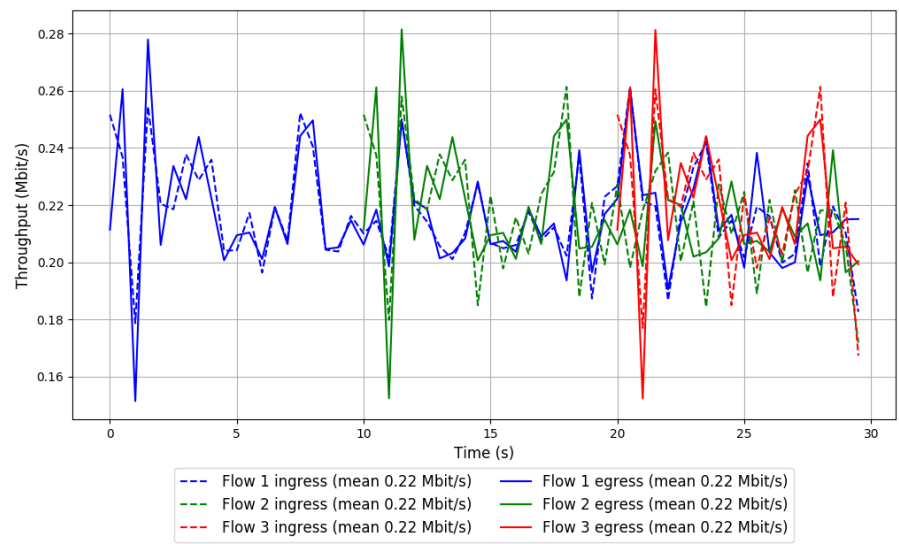


```
Run 10: Statistics of SReAM

Start at: 2017-10-12 21:39:33
End at: 2017-10-12 21:40:03

# Below is generated by plot.py at 2017-10-12 23:39:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.307 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.324 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.620 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.384 ms
Loss rate: 0.00%
```

Run 10: Report of SCReAM — Data Link

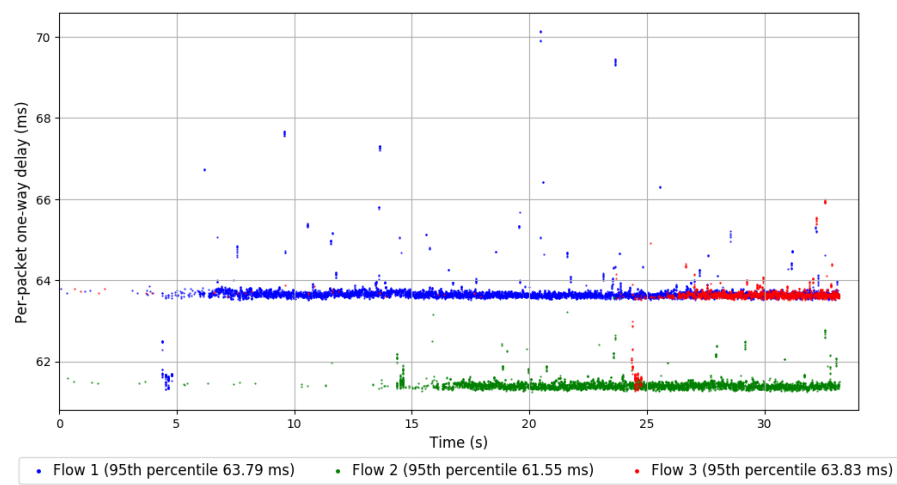
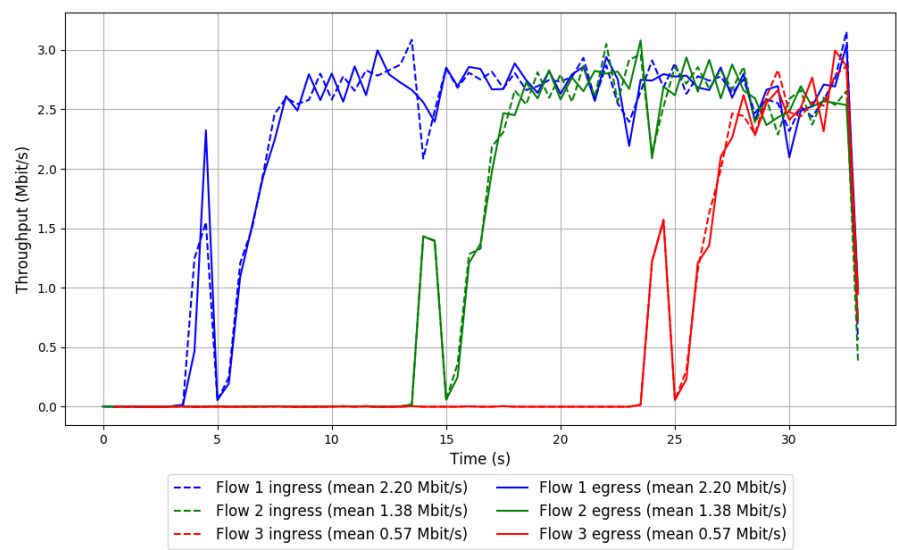


```
Run 1: Statistics of WebRTC media

Start at: 2017-10-12 19:46:02
End at: 2017-10-12 19:46:32

# Below is generated by plot.py at 2017-10-12 23:39:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.12 Mbit/s
95th percentile per-packet one-way delay: 63.765 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 63.794 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 61.551 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 63.826 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-10-12 19:58:45

End at: 2017-10-12 19:59:15

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 63.768 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.779 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 63.729 ms

Loss rate: 0.43%

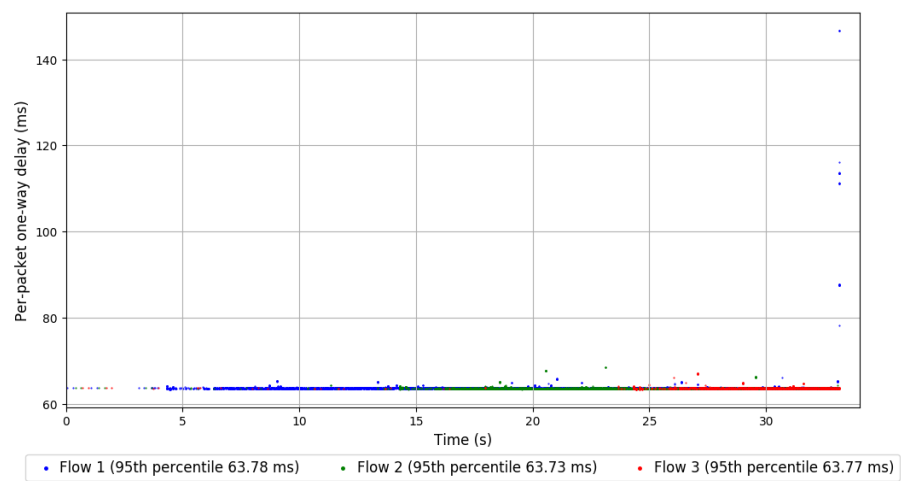
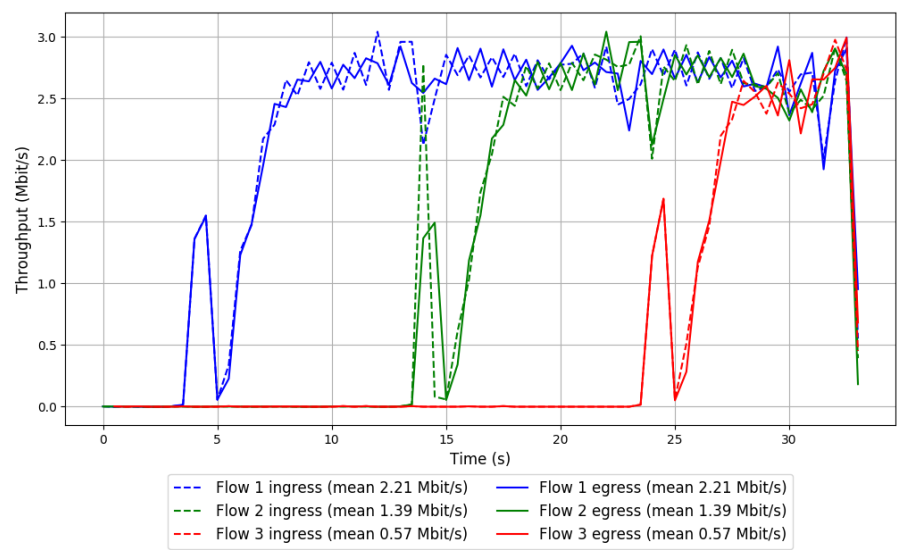
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 63.773 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-10-12 20:10:45

End at: 2017-10-12 20:11:15

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 63.759 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.728 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 64.265 ms

Loss rate: 0.00%

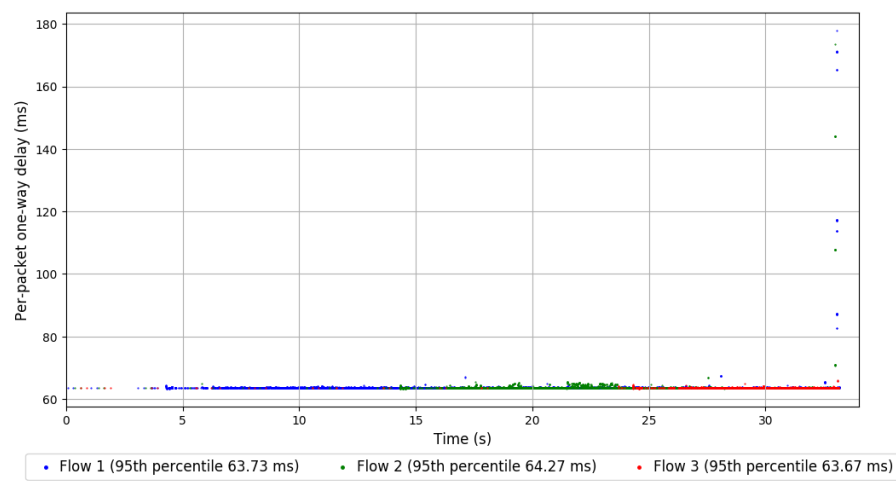
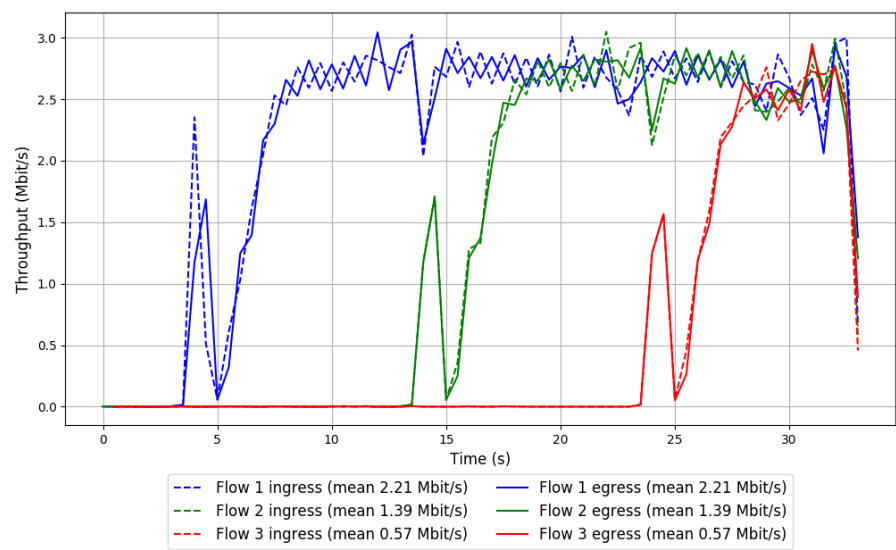
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 63.672 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-10-12 20:22:49

End at: 2017-10-12 20:23:19

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.61 Mbit/s

95th percentile per-packet one-way delay: 63.630 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 2.68 Mbit/s

95th percentile per-packet one-way delay: 63.626 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 63.644 ms

Loss rate: 0.00%

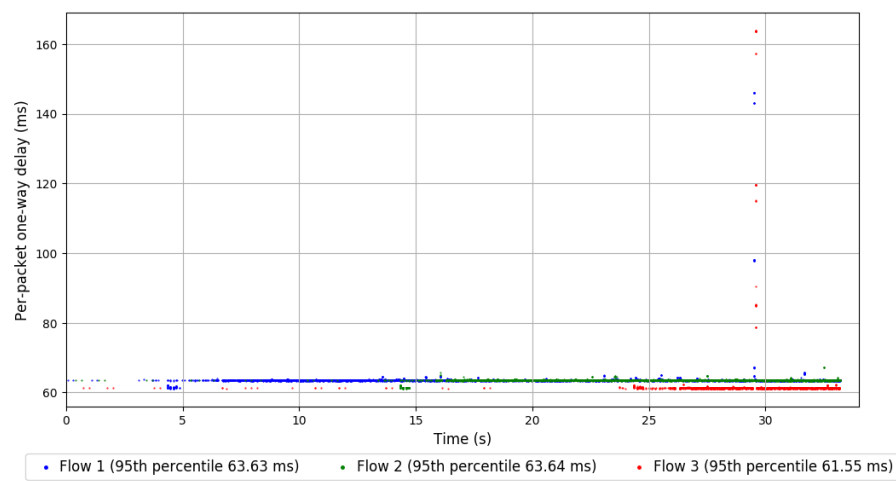
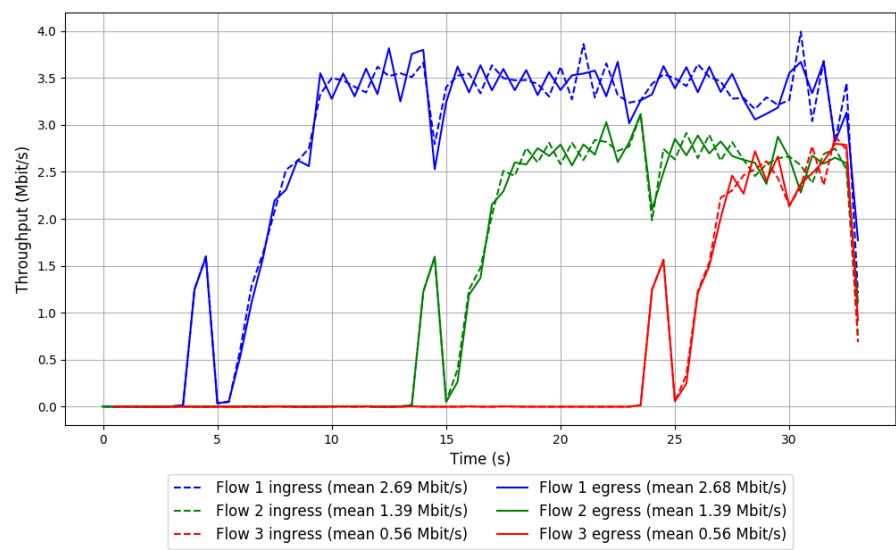
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 61.551 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-10-12 20:34:59

End at: 2017-10-12 20:35:29

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 63.617 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.610 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 63.699 ms

Loss rate: 0.00%

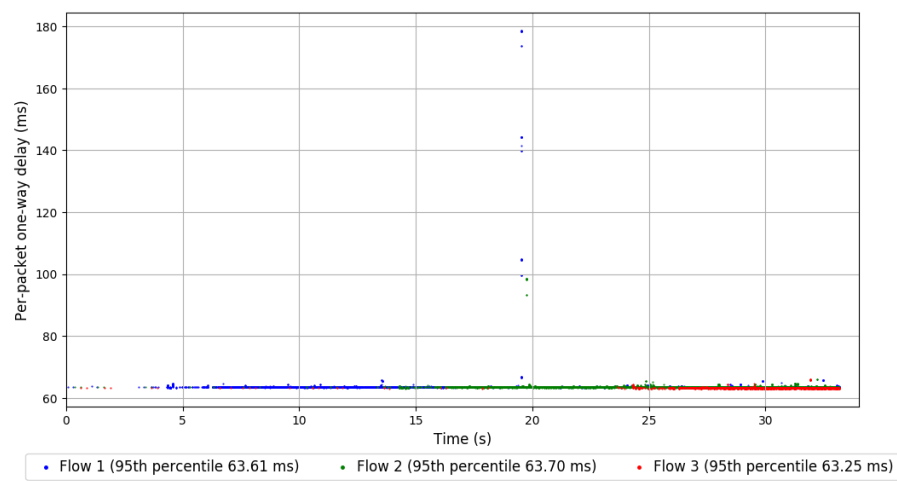
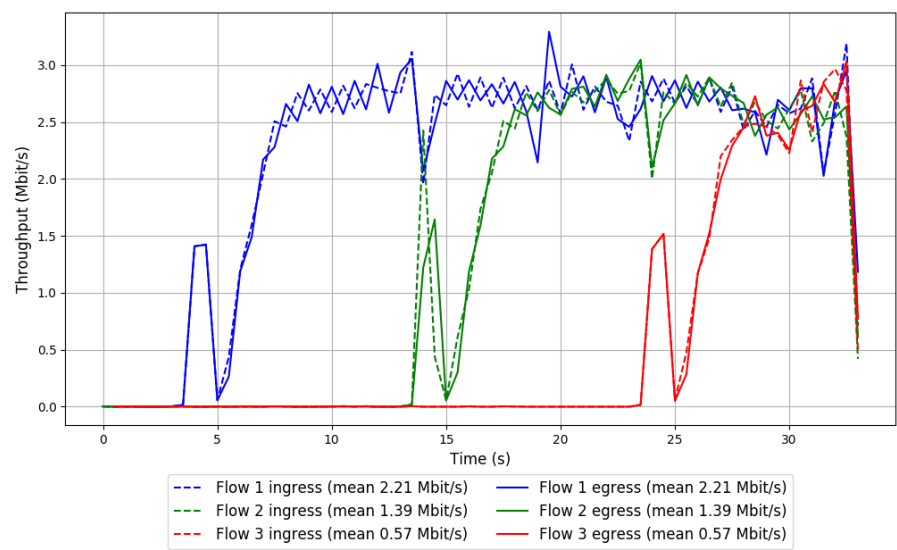
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 63.251 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-10-12 20:47:38

End at: 2017-10-12 20:48:08

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 63.488 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 63.470 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 61.461 ms

Loss rate: 0.00%

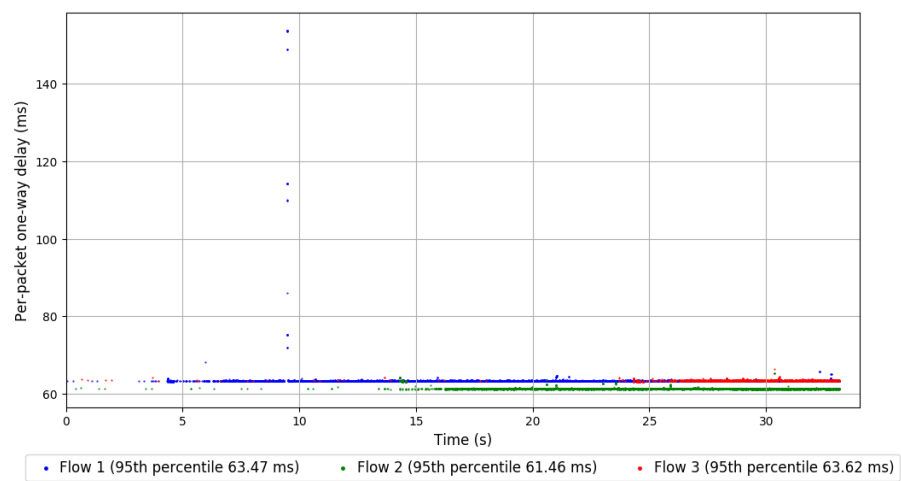
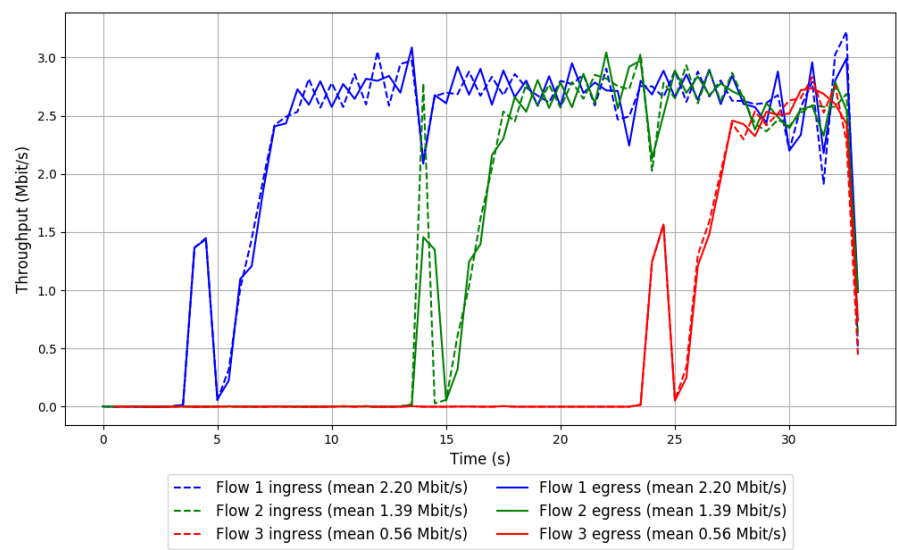
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 63.625 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-10-12 21:00:15

End at: 2017-10-12 21:00:45

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 63.557 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 63.585 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 61.531 ms

Loss rate: 0.00%

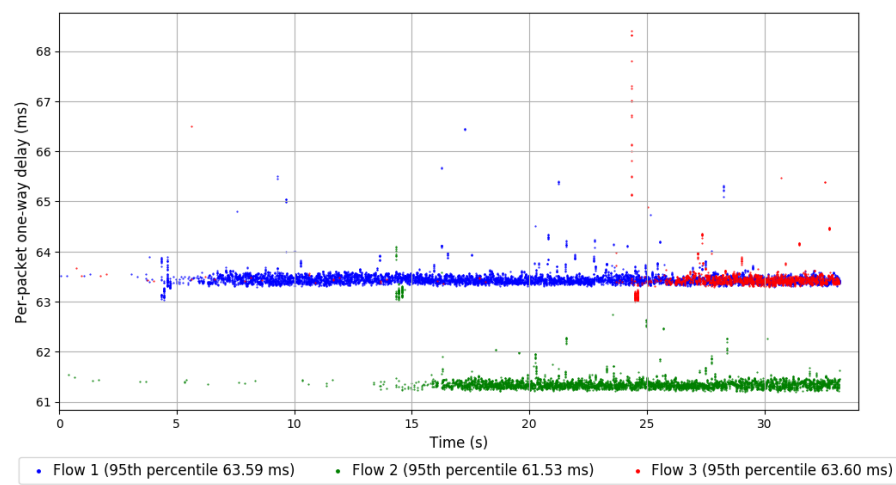
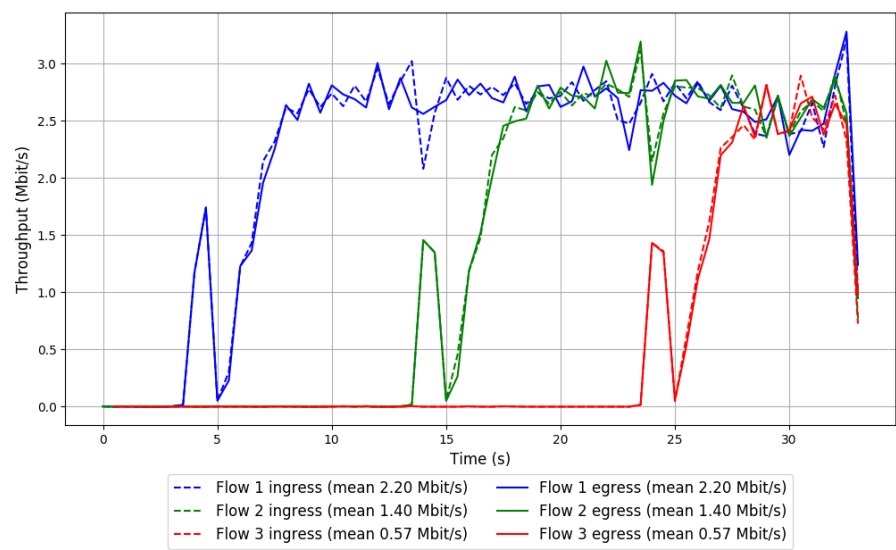
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 63.603 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-10-12 21:12:58

End at: 2017-10-12 21:13:28

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 63.567 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 63.583 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 63.261 ms

Loss rate: 0.00%

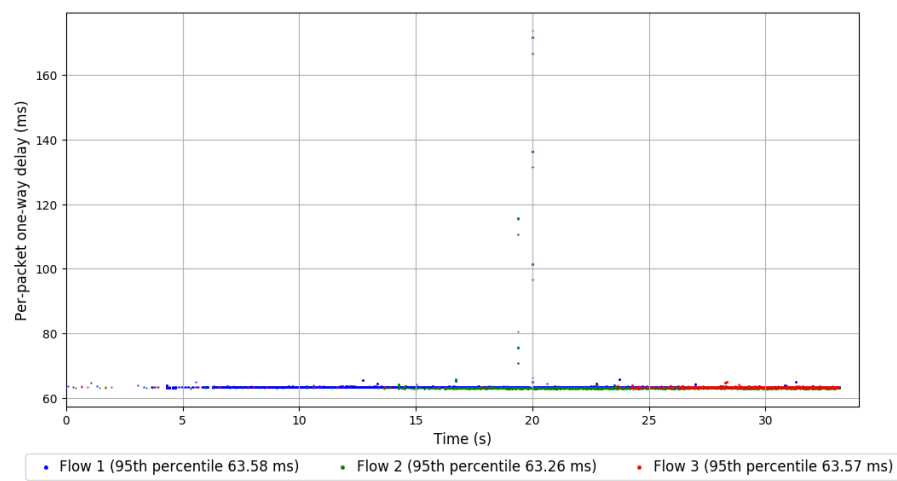
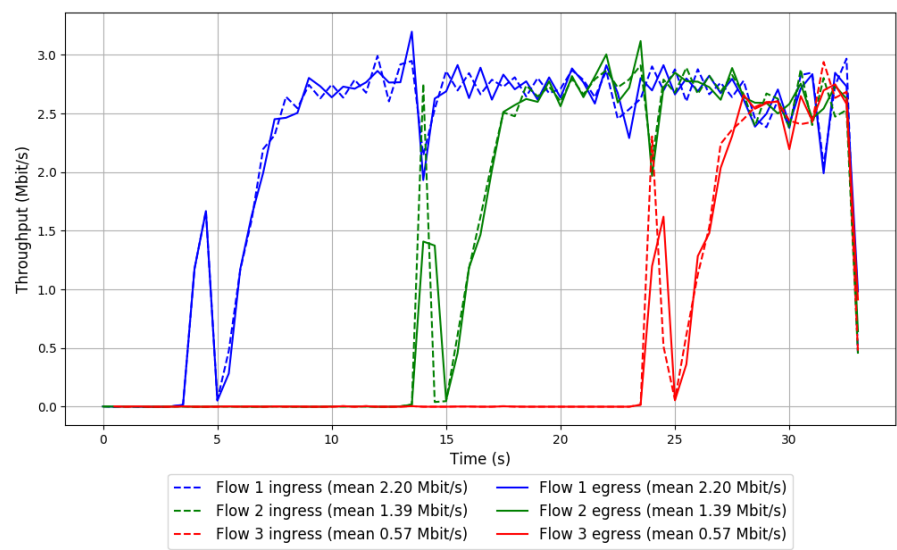
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 63.573 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-10-12 21:25:29

End at: 2017-10-12 21:25:59

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 63.468 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 61.697 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 62.571 ms

Loss rate: 0.00%

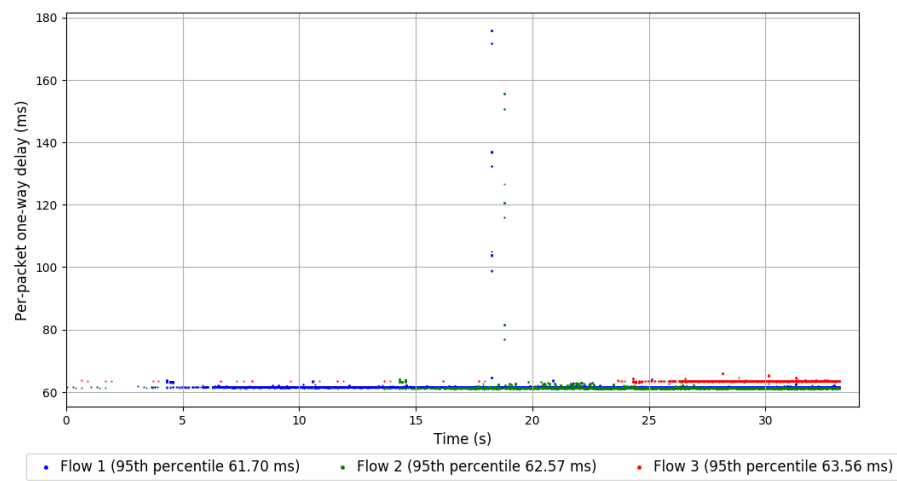
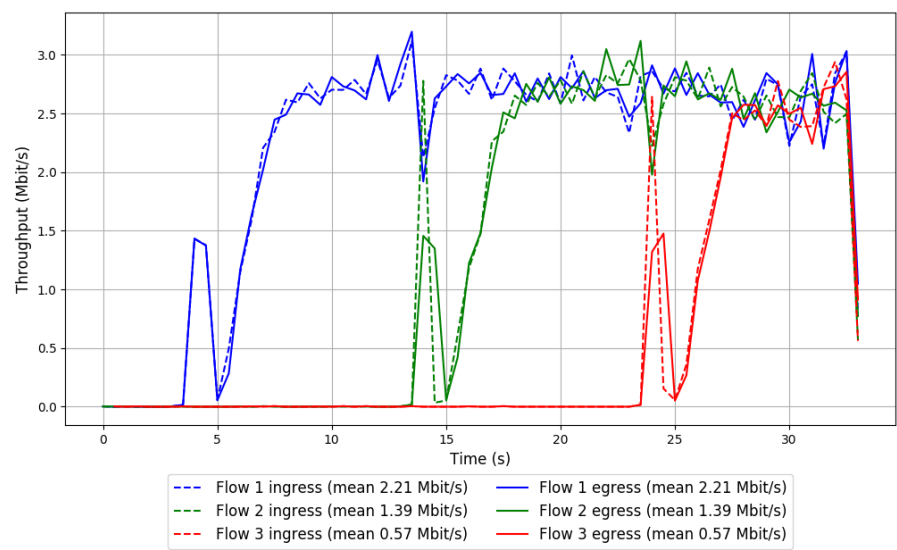
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 63.556 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-10-12 21:38:05

End at: 2017-10-12 21:38:35

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 63.247 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 61.648 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 63.283 ms

Loss rate: 0.00%

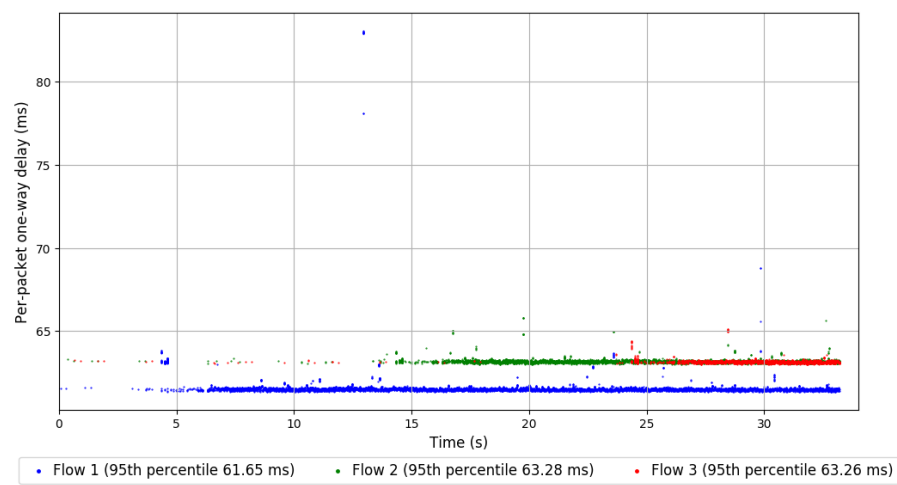
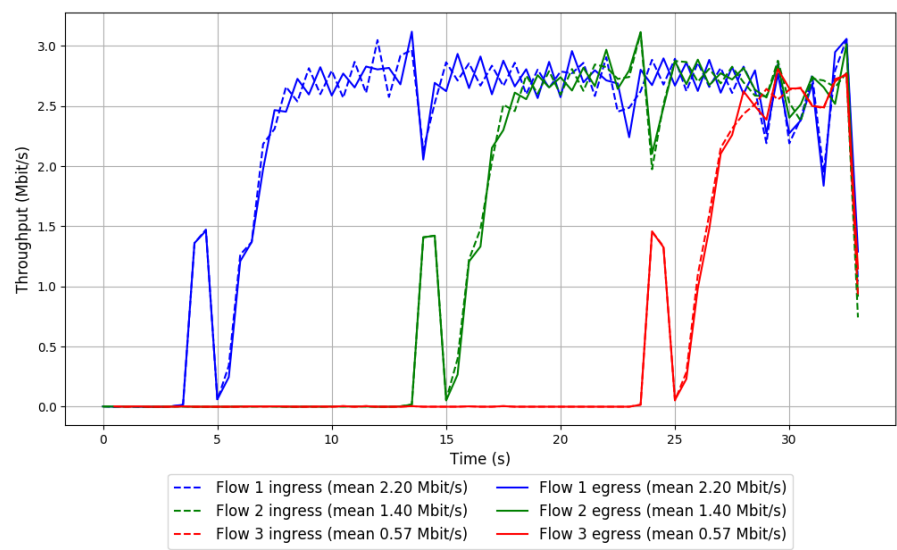
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 63.255 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

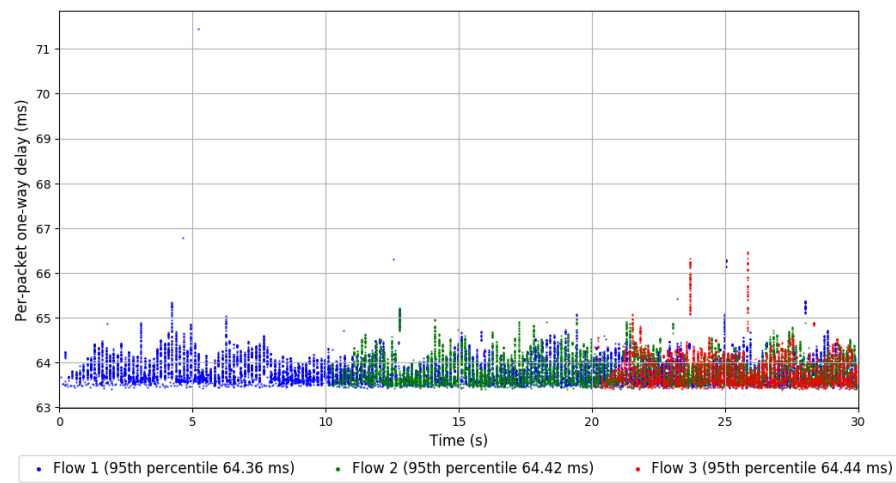
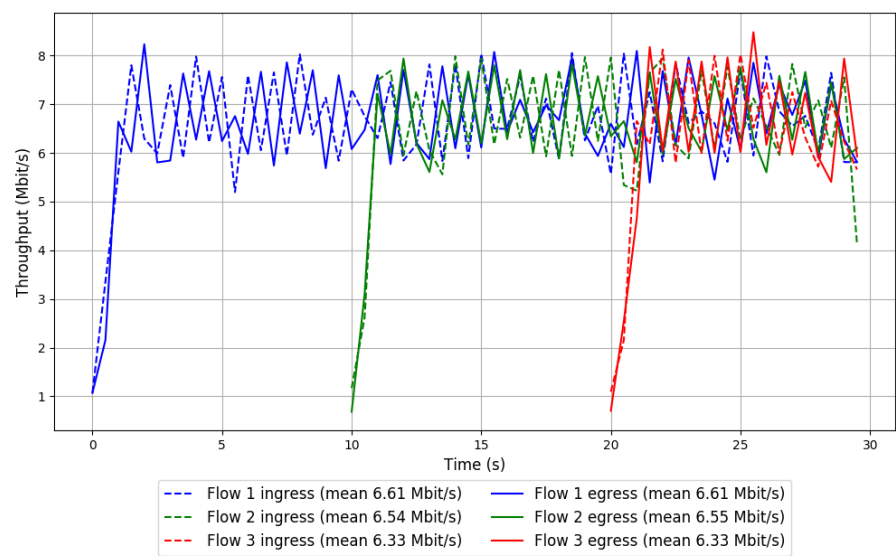


```
Run 1: Statistics of Sprout

Start at: 2017-10-12 19:48:10
End at: 2017-10-12 19:48:40

# Below is generated by plot.py at 2017-10-12 23:39:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.04 Mbit/s
95th percentile per-packet one-way delay: 64.388 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.61 Mbit/s
95th percentile per-packet one-way delay: 64.363 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.55 Mbit/s
95th percentile per-packet one-way delay: 64.415 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.33 Mbit/s
95th percentile per-packet one-way delay: 64.436 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-10-12 20:00:53

End at: 2017-10-12 20:01:23

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.76 Mbit/s

95th percentile per-packet one-way delay: 64.376 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.44 Mbit/s

95th percentile per-packet one-way delay: 64.462 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.44 Mbit/s

95th percentile per-packet one-way delay: 64.267 ms

Loss rate: 0.01%

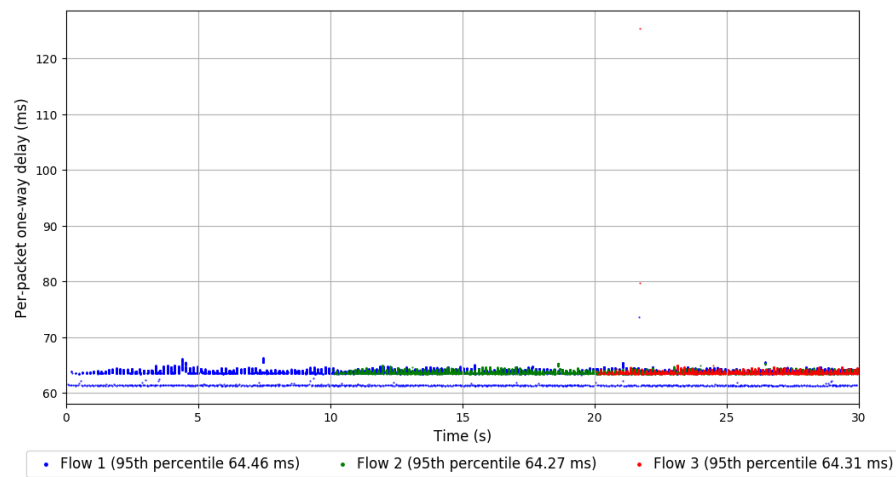
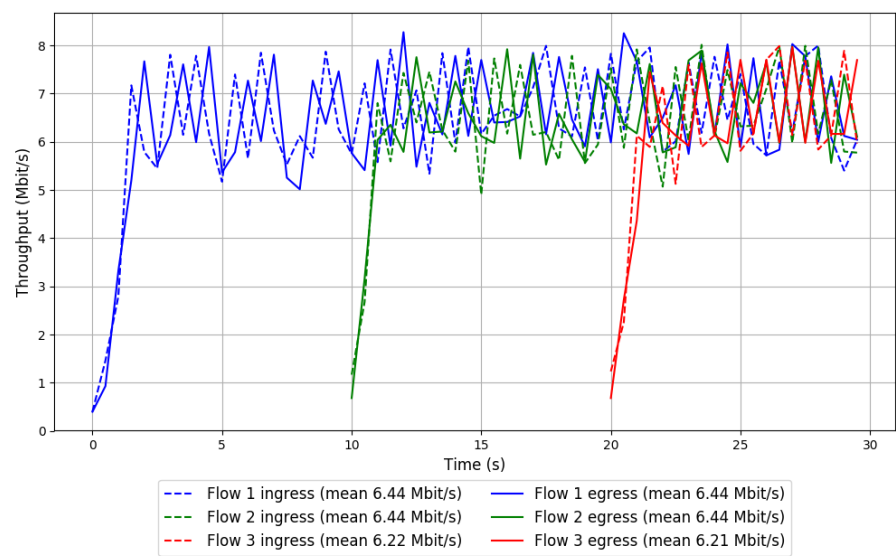
-- Flow 3:

Average throughput: 6.21 Mbit/s

95th percentile per-packet one-way delay: 64.307 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-10-12 20:12:53

End at: 2017-10-12 20:13:23

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.77 Mbit/s

95th percentile per-packet one-way delay: 64.355 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 64.366 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.48 Mbit/s

95th percentile per-packet one-way delay: 64.328 ms

Loss rate: 0.00%

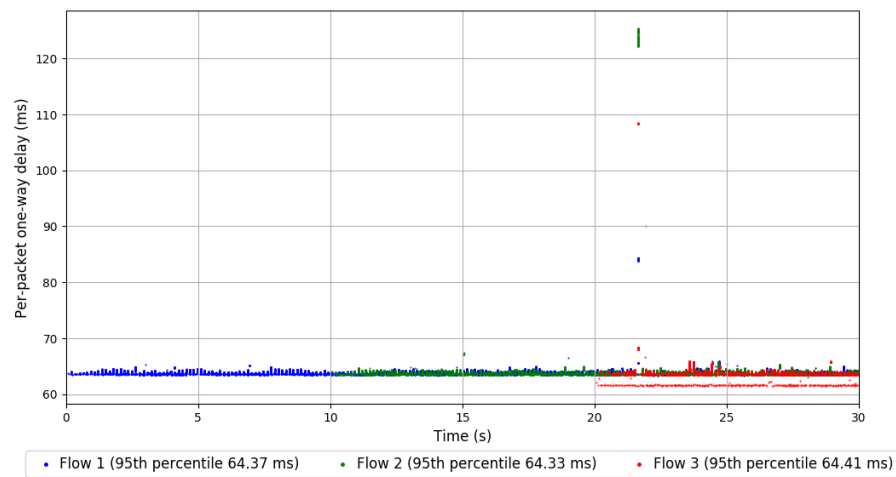
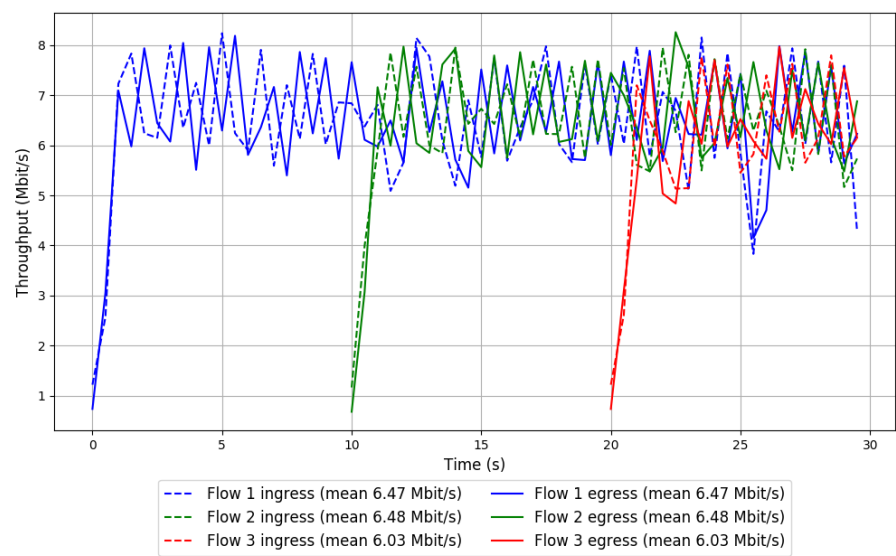
-- Flow 3:

Average throughput: 6.03 Mbit/s

95th percentile per-packet one-way delay: 64.405 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-10-12 20:24:58

End at: 2017-10-12 20:25:28

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.03 Mbit/s

95th percentile per-packet one-way delay: 63.420 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.67 Mbit/s

95th percentile per-packet one-way delay: 63.468 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.44 Mbit/s

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

Loss rate: 0.00%

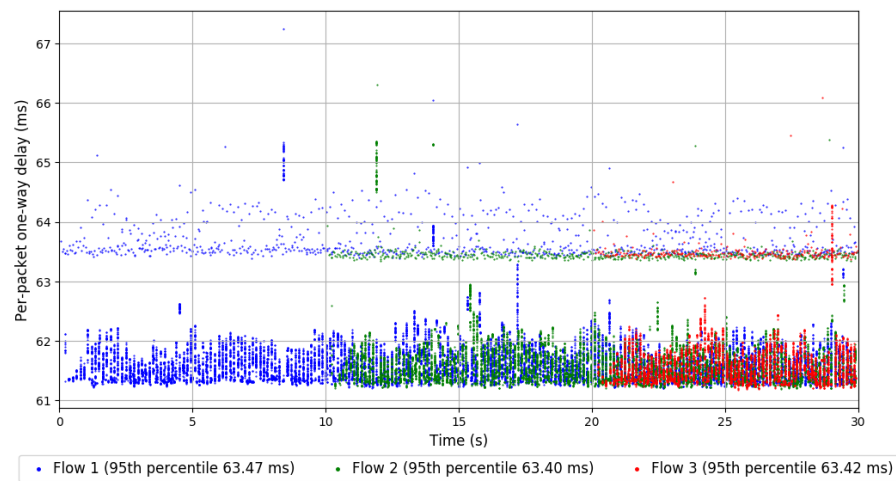
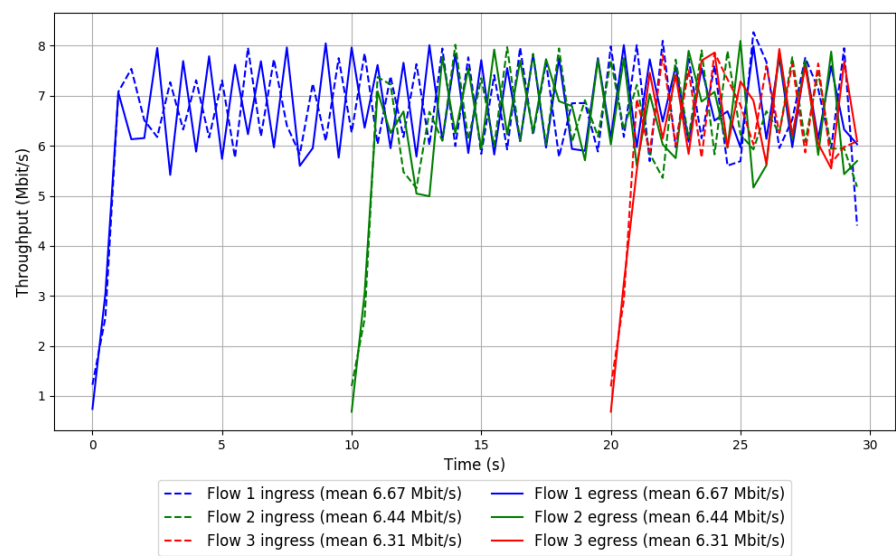
-- Flow 3:

Average throughput: 6.31 Mbit/s

95th percentile per-packet one-way delay: 63.421 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-10-12 20:37:08

End at: 2017-10-12 20:37:38

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.84 Mbit/s

95th percentile per-packet one-way delay: 64.071 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 6.43 Mbit/s

95th percentile per-packet one-way delay: 64.064 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 64.046 ms

Loss rate: 0.00%

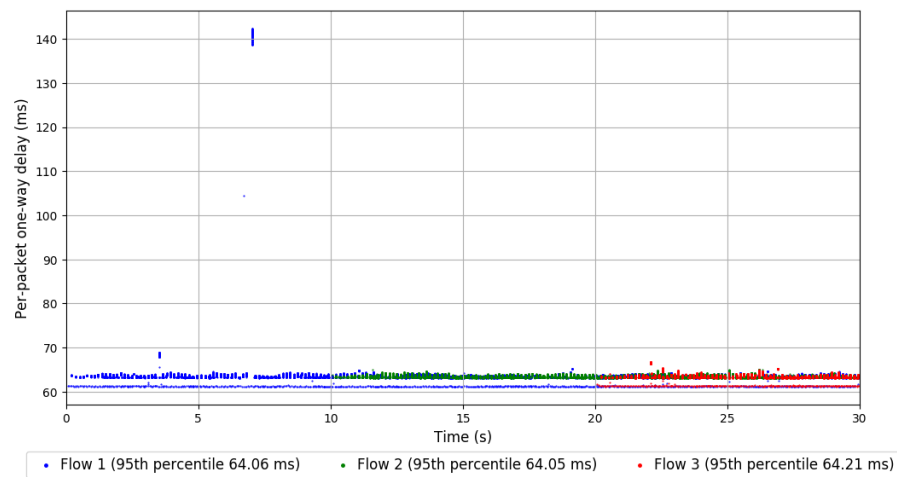
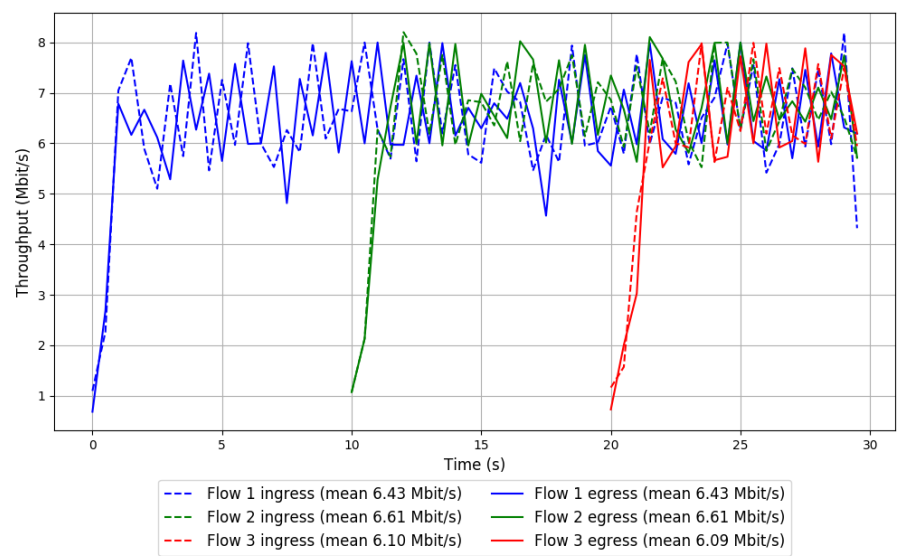
-- Flow 3:

Average throughput: 6.09 Mbit/s

95th percentile per-packet one-way delay: 64.207 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-10-12 20:49:47

End at: 2017-10-12 20:50:17

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.97 Mbit/s

95th percentile per-packet one-way delay: 63.871 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.60 Mbit/s

95th percentile per-packet one-way delay: 63.874 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.51 Mbit/s

95th percentile per-packet one-way delay: 63.867 ms

Loss rate: 0.00%

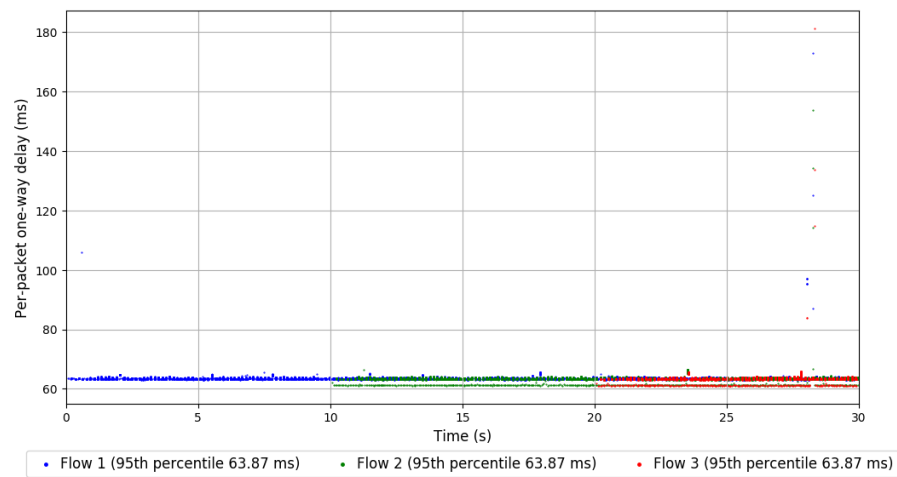
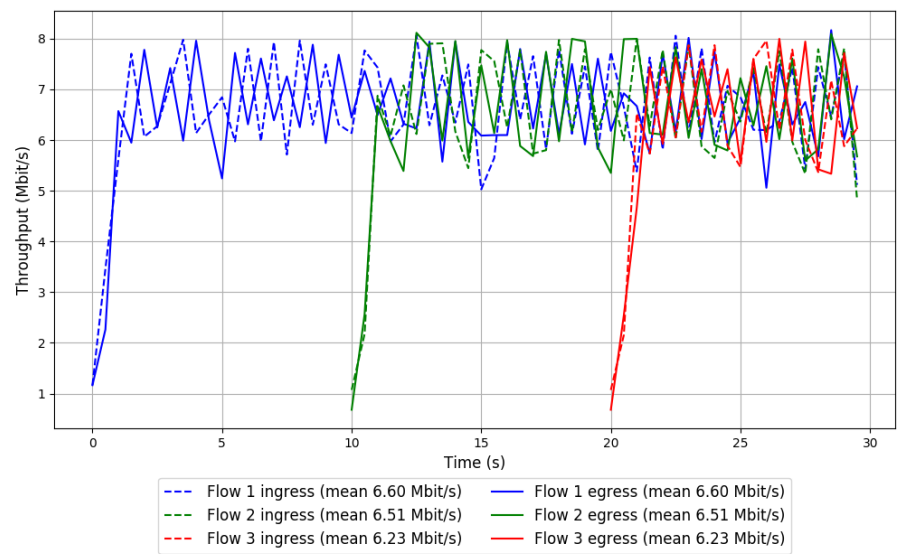
-- Flow 3:

Average throughput: 6.23 Mbit/s

95th percentile per-packet one-way delay: 63.873 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-10-12 21:02:24

End at: 2017-10-12 21:02:54

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.94 Mbit/s

95th percentile per-packet one-way delay: 63.945 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 63.931 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 64.026 ms

Loss rate: 0.00%

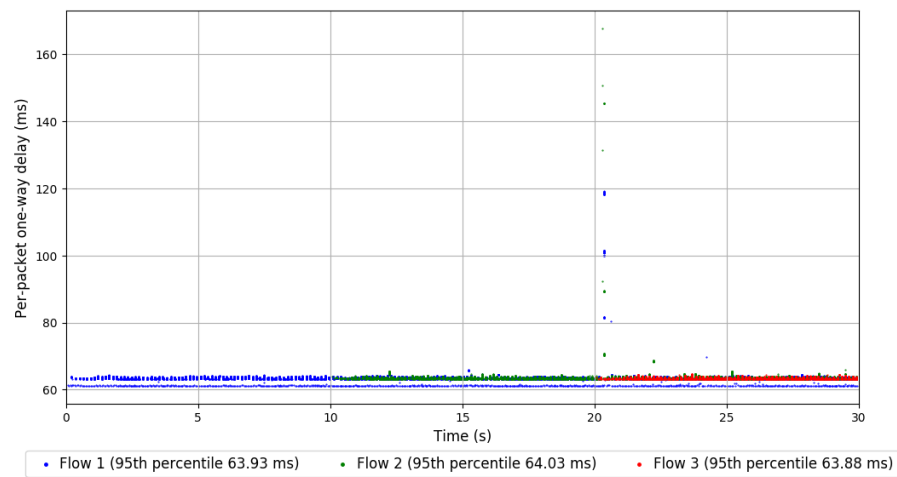
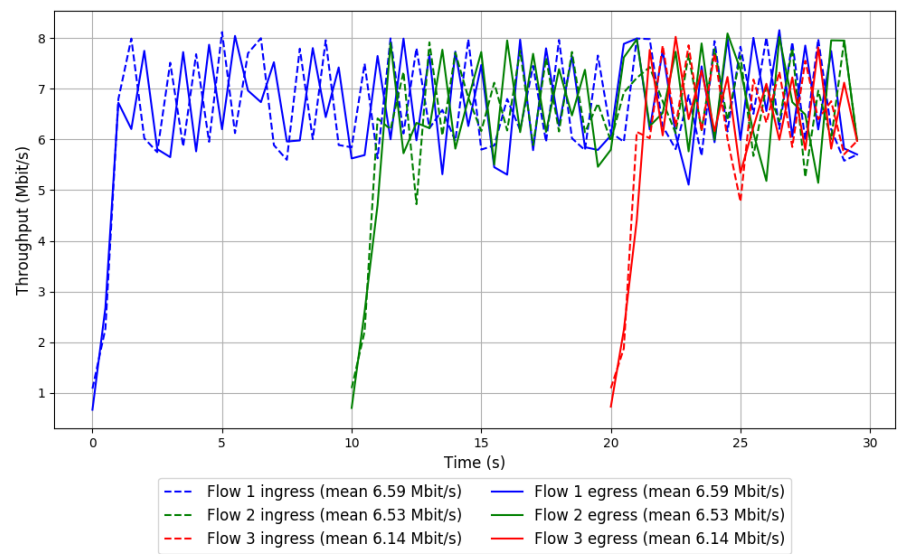
-- Flow 3:

Average throughput: 6.14 Mbit/s

95th percentile per-packet one-way delay: 63.884 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-10-12 21:15:08

End at: 2017-10-12 21:15:38

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.01 Mbit/s

95th percentile per-packet one-way delay: 63.879 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.55 Mbit/s

95th percentile per-packet one-way delay: 63.900 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 63.822 ms

Loss rate: 0.00%

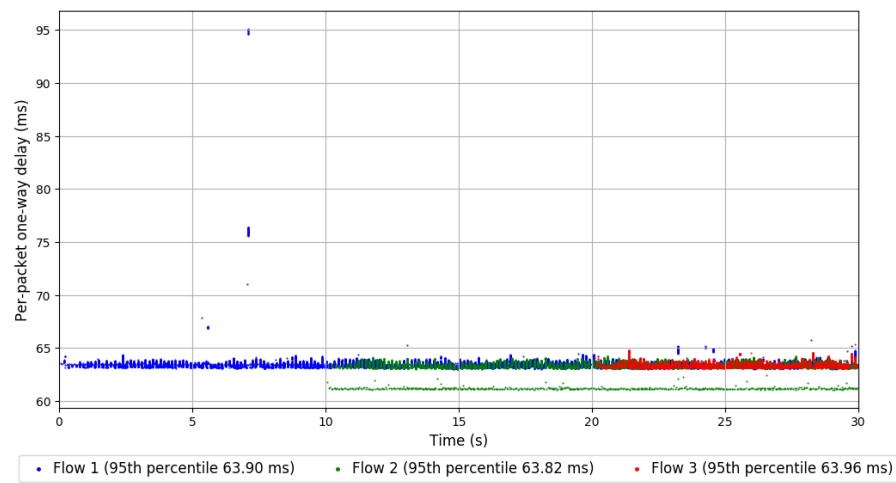
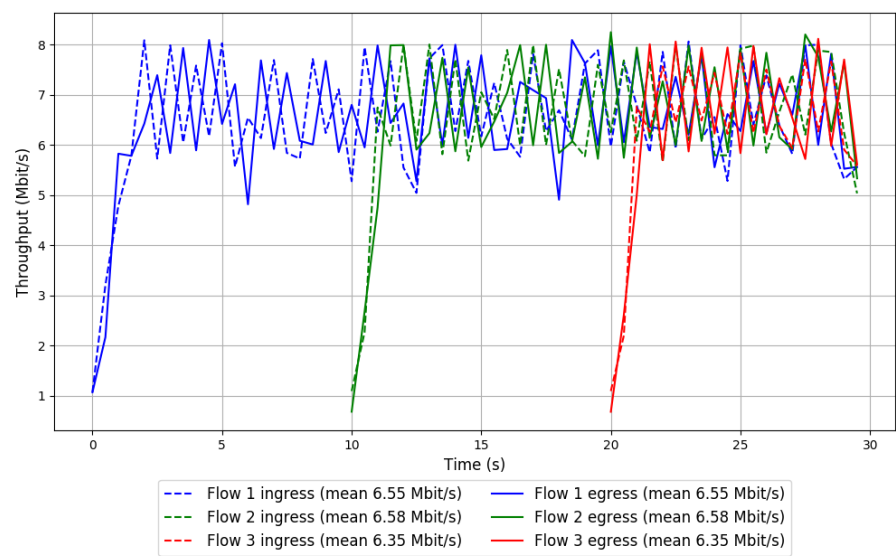
-- Flow 3:

Average throughput: 6.35 Mbit/s

95th percentile per-packet one-way delay: 63.959 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-10-12 21:27:38

End at: 2017-10-12 21:28:08

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.75 Mbit/s

95th percentile per-packet one-way delay: 63.958 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.49 Mbit/s

95th percentile per-packet one-way delay: 63.982 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.51 Mbit/s

95th percentile per-packet one-way delay: 63.954 ms

Loss rate: 0.00%

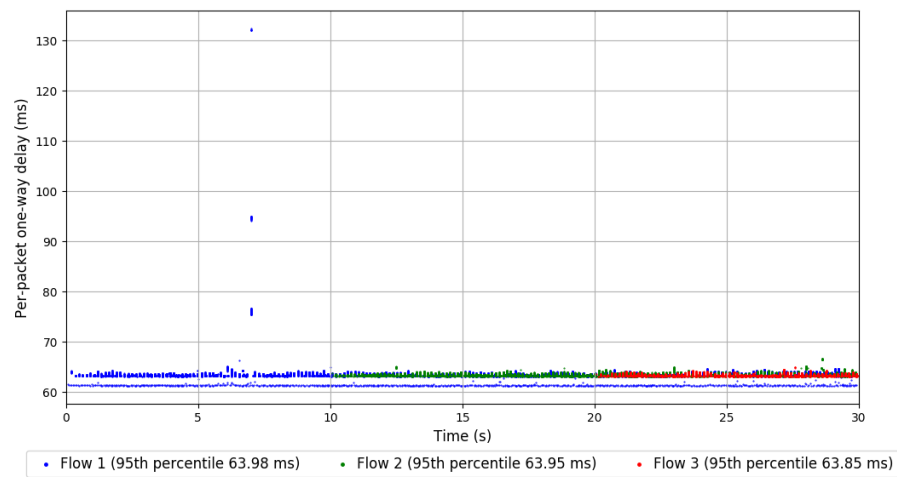
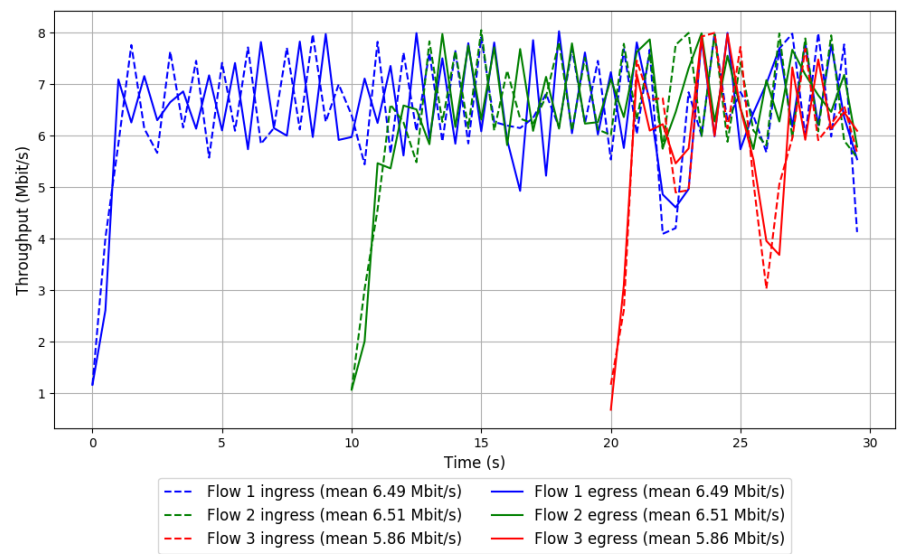
-- Flow 3:

Average throughput: 5.86 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-10-12 21:40:13

End at: 2017-10-12 21:40:43

Below is generated by plot.py at 2017-10-12 23:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.74 Mbit/s

95th percentile per-packet one-way delay: 63.905 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.49 Mbit/s

95th percentile per-packet one-way delay: 63.905 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 63.906 ms

Loss rate: 0.00%

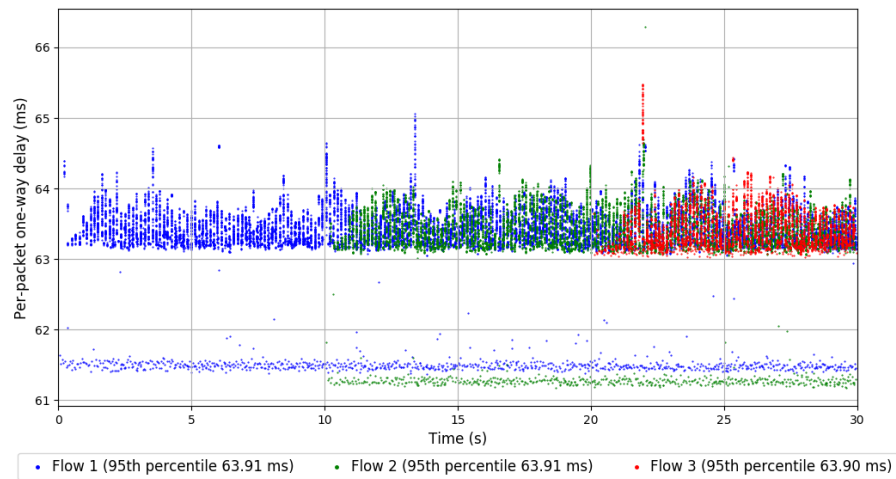
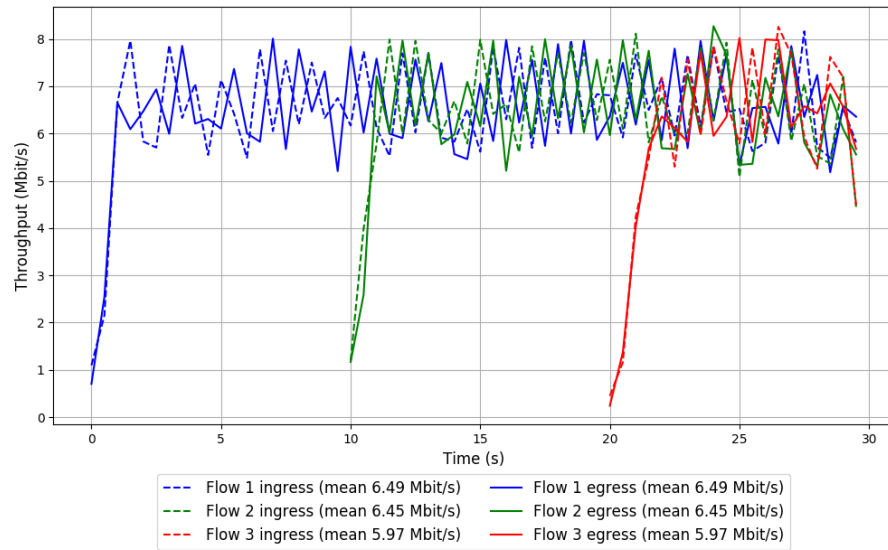
-- Flow 3:

Average throughput: 5.97 Mbit/s

95th percentile per-packet one-way delay: 63.903 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

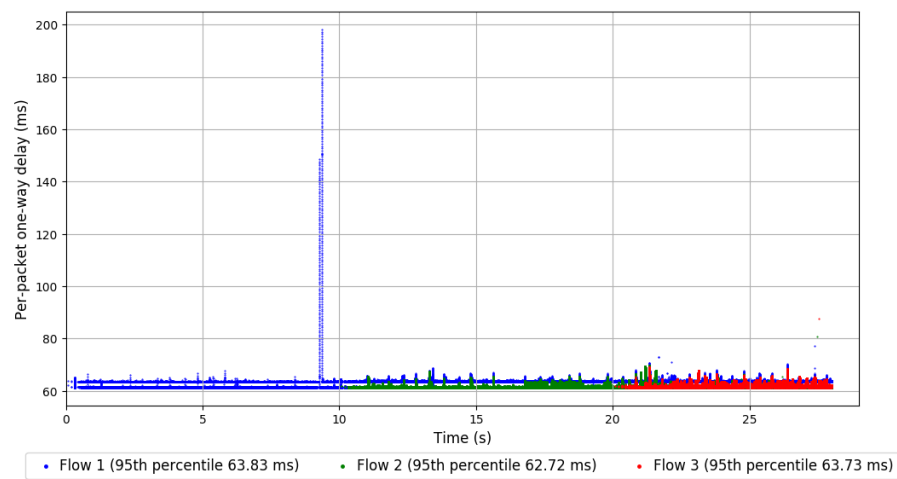
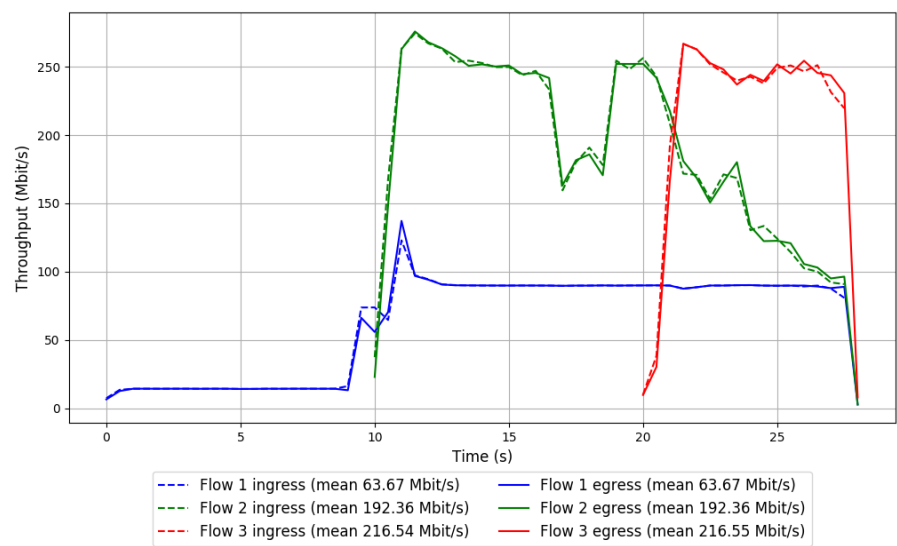


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-10-12 19:41:34
End at: 2017-10-12 19:42:04

# Below is generated by plot.py at 2017-10-12 23:43:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 248.52 Mbit/s
95th percentile per-packet one-way delay: 63.763 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.67 Mbit/s
95th percentile per-packet one-way delay: 63.833 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 192.36 Mbit/s
95th percentile per-packet one-way delay: 62.719 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 216.55 Mbit/s
95th percentile per-packet one-way delay: 63.732 ms
Loss rate: 0.00%
```


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

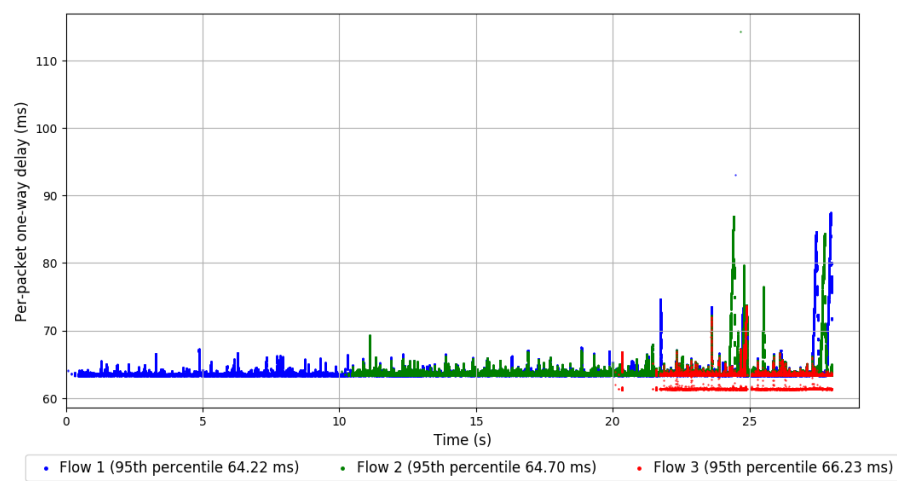
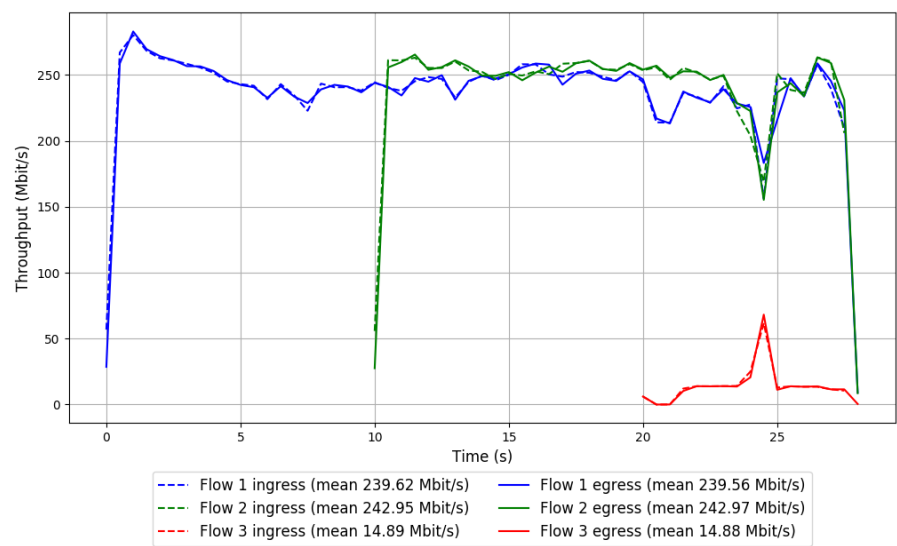


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-10-12 19:53:43
End at: 2017-10-12 19:54:13

# Below is generated by plot.py at 2017-10-12 23:48:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 399.83 Mbit/s
95th percentile per-packet one-way delay: 64.403 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 239.56 Mbit/s
95th percentile per-packet one-way delay: 64.218 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 242.97 Mbit/s
95th percentile per-packet one-way delay: 64.698 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.88 Mbit/s
95th percentile per-packet one-way delay: 66.228 ms
Loss rate: 0.01%
```

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

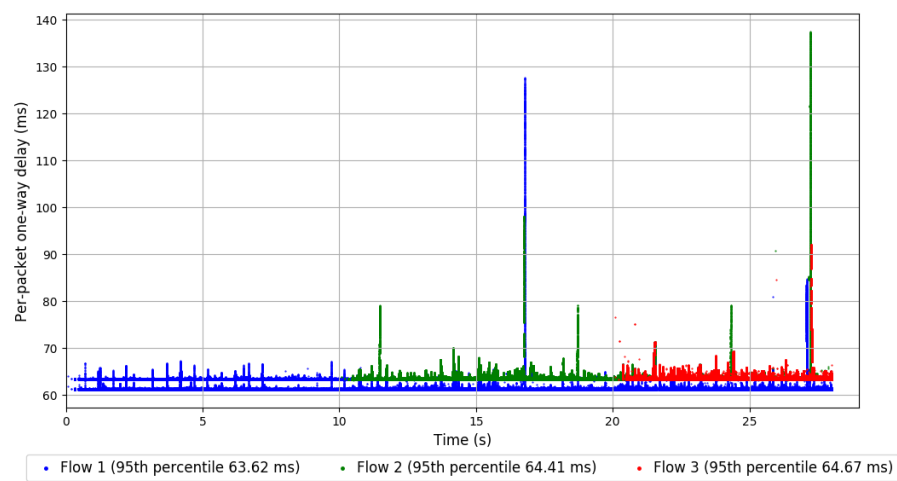
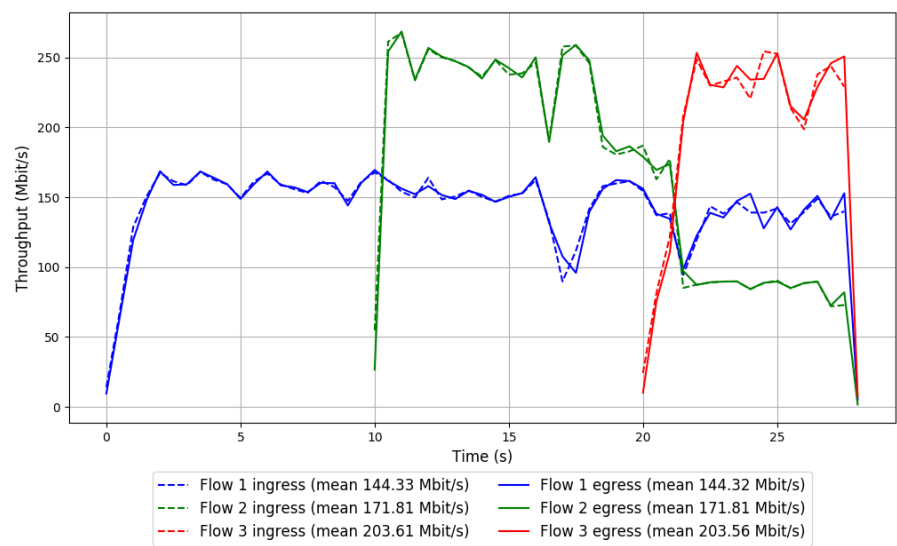


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-10-12 20:06:26
End at: 2017-10-12 20:06:56

# Below is generated by plot.py at 2017-10-12 23:48:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 312.32 Mbit/s
95th percentile per-packet one-way delay: 64.105 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 144.32 Mbit/s
95th percentile per-packet one-way delay: 63.615 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 171.81 Mbit/s
95th percentile per-packet one-way delay: 64.406 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 203.56 Mbit/s
95th percentile per-packet one-way delay: 64.669 ms
Loss rate: 0.04%
```

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

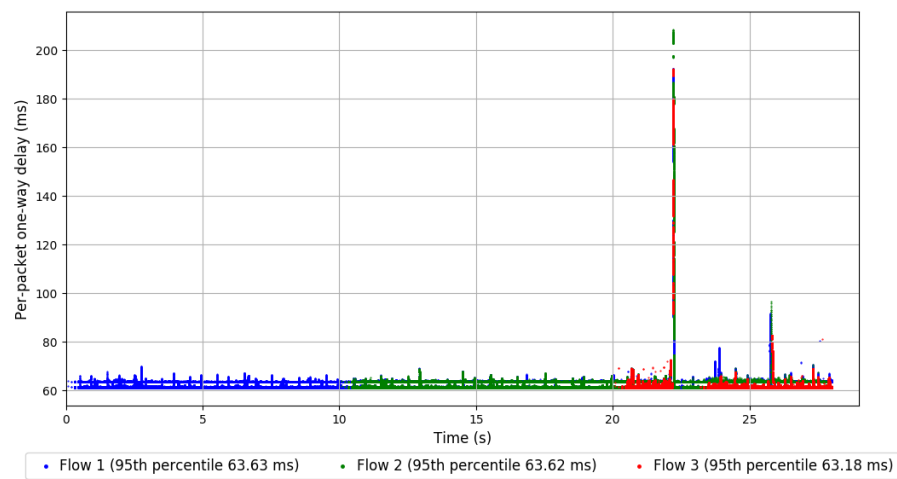
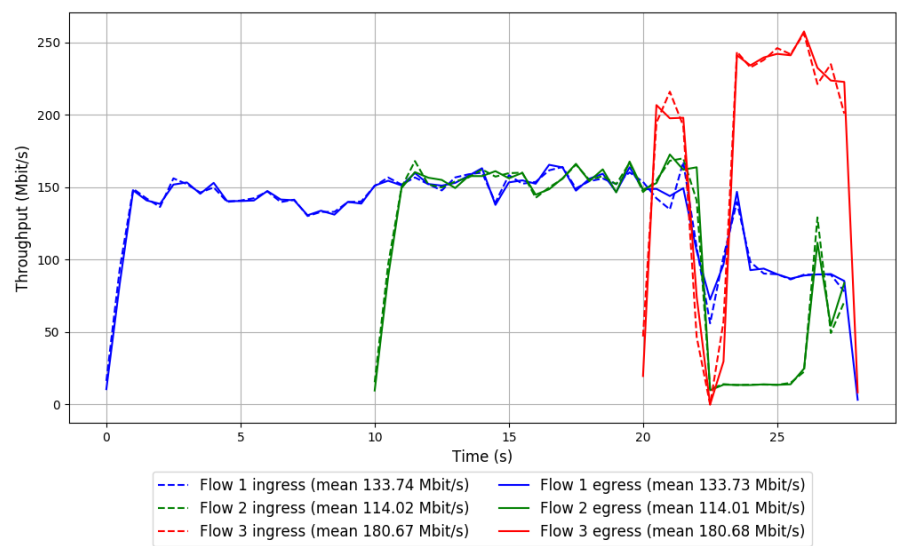


```
Run 4: Statistics of TaoVA-100x

Start at: 2017-10-12 20:18:21
End at: 2017-10-12 20:18:51

# Below is generated by plot.py at 2017-10-12 23:48:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 257.86 Mbit/s
95th percentile per-packet one-way delay: 63.622 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 133.73 Mbit/s
95th percentile per-packet one-way delay: 63.629 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 114.01 Mbit/s
95th percentile per-packet one-way delay: 63.624 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 180.68 Mbit/s
95th percentile per-packet one-way delay: 63.180 ms
Loss rate: 0.00%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-10-12 20:30:35

End at: 2017-10-12 20:31:05

Below is generated by plot.py at 2017-10-12 23:48:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 310.04 Mbit/s

95th percentile per-packet one-way delay: 64.264 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 188.04 Mbit/s

95th percentile per-packet one-way delay: 62.970 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 132.84 Mbit/s

95th percentile per-packet one-way delay: 65.105 ms

Loss rate: 0.00%

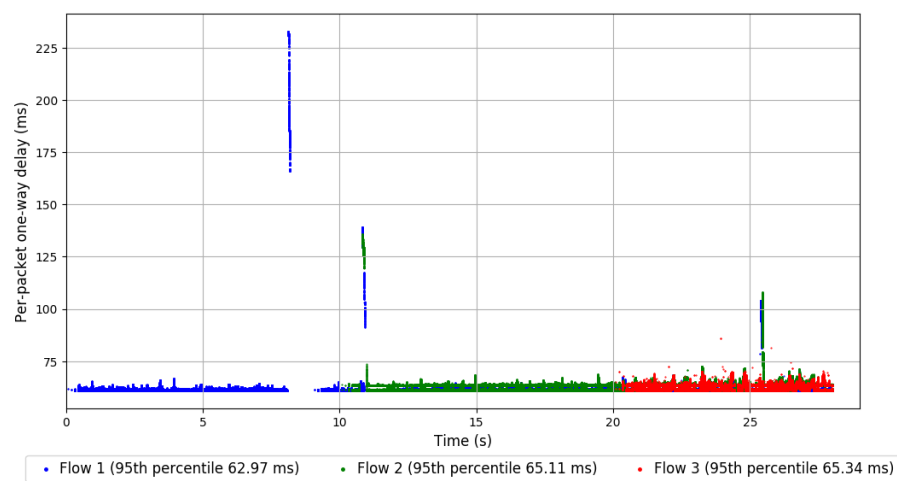
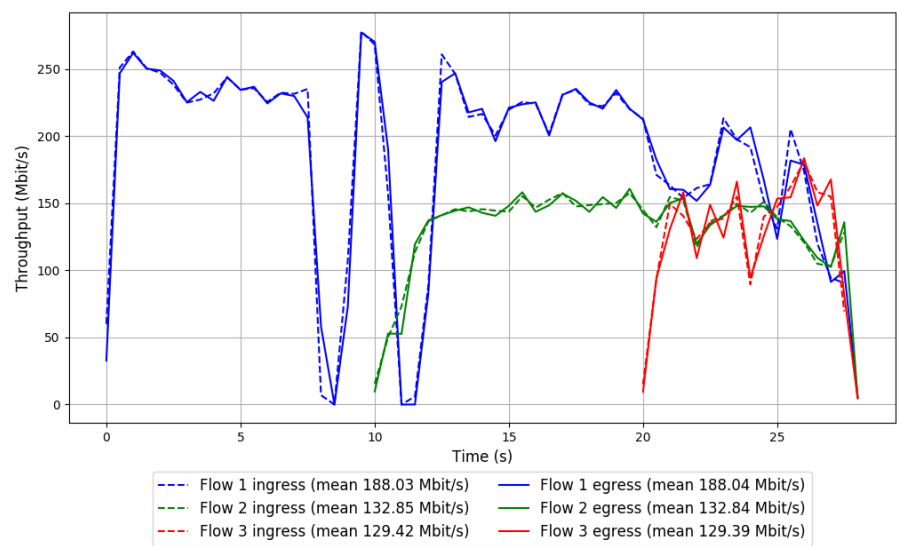
-- Flow 3:

Average throughput: 129.39 Mbit/s

95th percentile per-packet one-way delay: 65.341 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-10-12 20:42:41

End at: 2017-10-12 20:43:11

Below is generated by plot.py at 2017-10-12 23:48:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 336.72 Mbit/s

95th percentile per-packet one-way delay: 65.565 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 198.01 Mbit/s

95th percentile per-packet one-way delay: 67.288 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 160.99 Mbit/s

95th percentile per-packet one-way delay: 63.383 ms

Loss rate: 0.00%

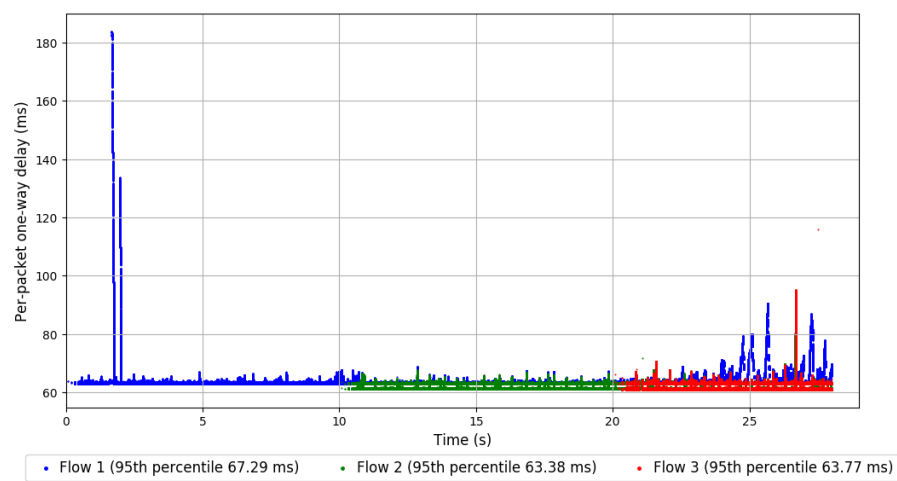
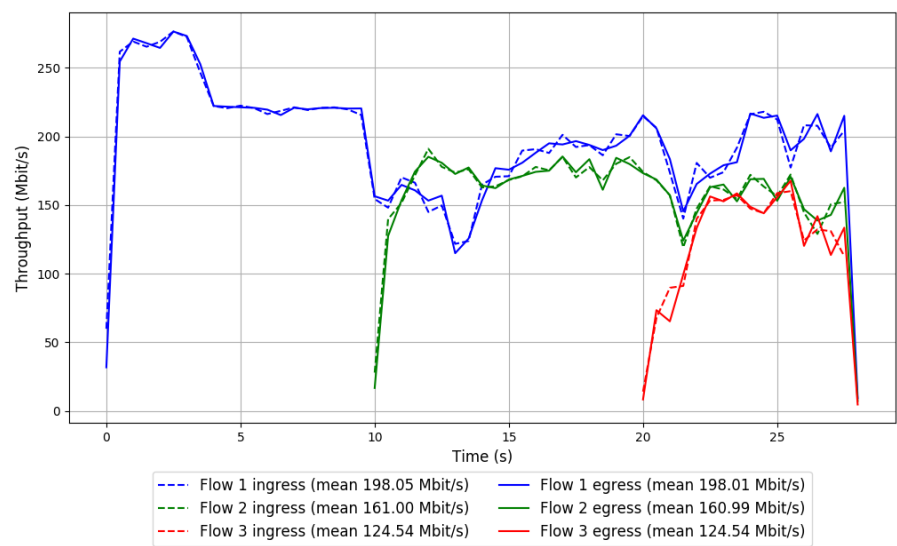
-- Flow 3:

Average throughput: 124.54 Mbit/s

95th percentile per-packet one-way delay: 63.775 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-10-12 20:55:22

End at: 2017-10-12 20:55:52

Below is generated by plot.py at 2017-10-12 23:48:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 244.95 Mbit/s

95th percentile per-packet one-way delay: 70.128 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 116.03 Mbit/s

95th percentile per-packet one-way delay: 63.159 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 125.73 Mbit/s

95th percentile per-packet one-way delay: 63.252 ms

Loss rate: 0.00%

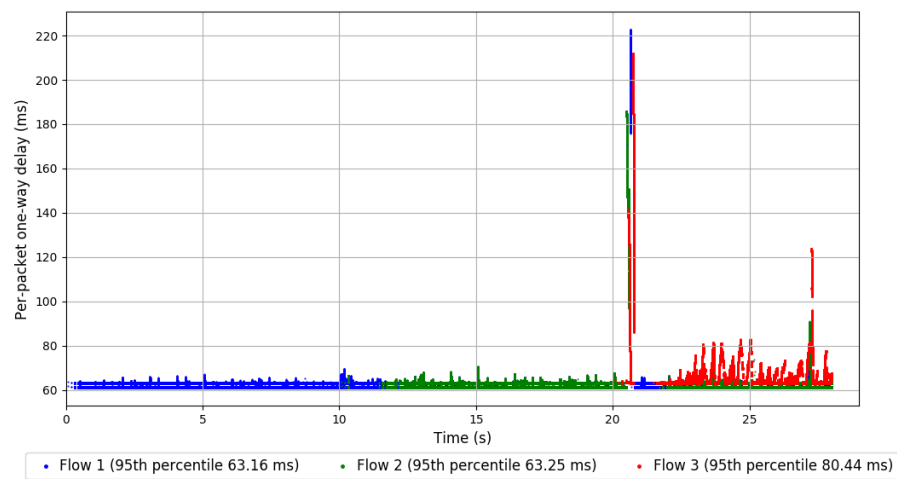
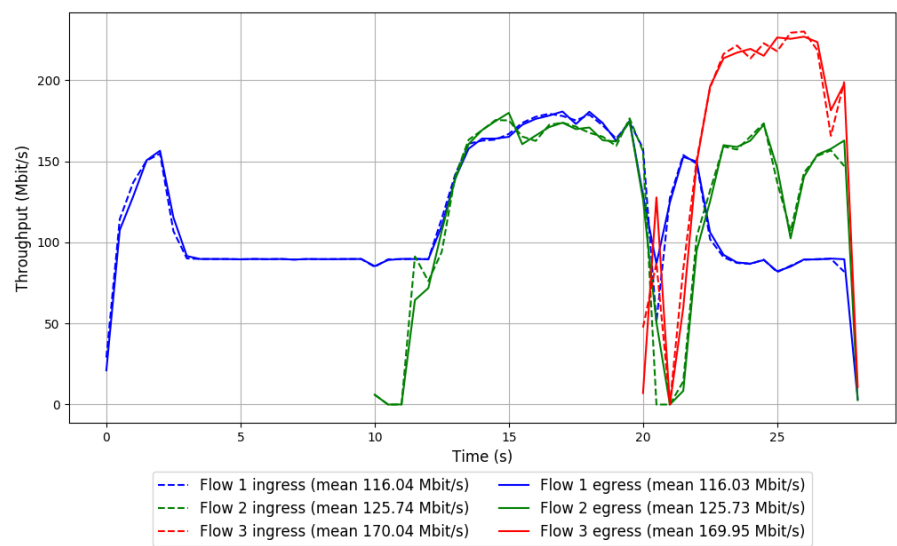
-- Flow 3:

Average throughput: 169.95 Mbit/s

95th percentile per-packet one-way delay: 80.445 ms

Loss rate: 0.07%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-10-12 21:07:58

End at: 2017-10-12 21:08:28

Below is generated by plot.py at 2017-10-12 23:51:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 353.15 Mbit/s

95th percentile per-packet one-way delay: 67.591 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 215.91 Mbit/s

95th percentile per-packet one-way delay: 67.875 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 182.07 Mbit/s

95th percentile per-packet one-way delay: 67.702 ms

Loss rate: 0.00%

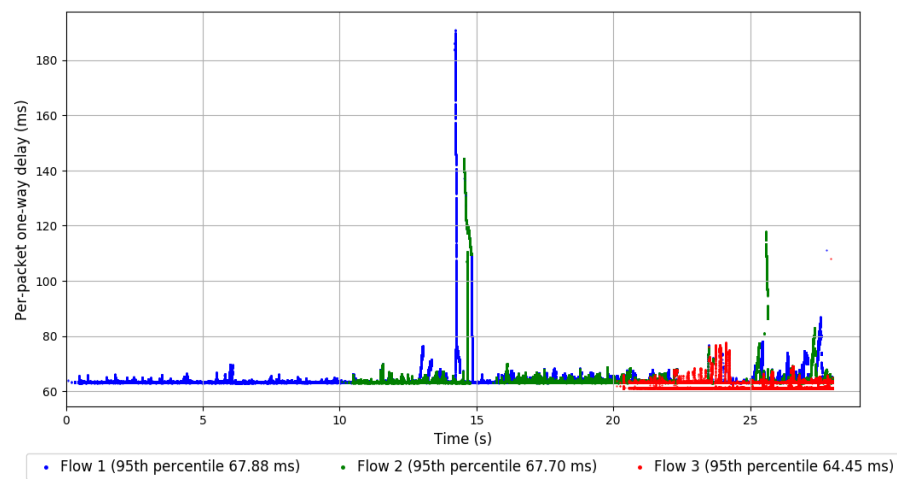
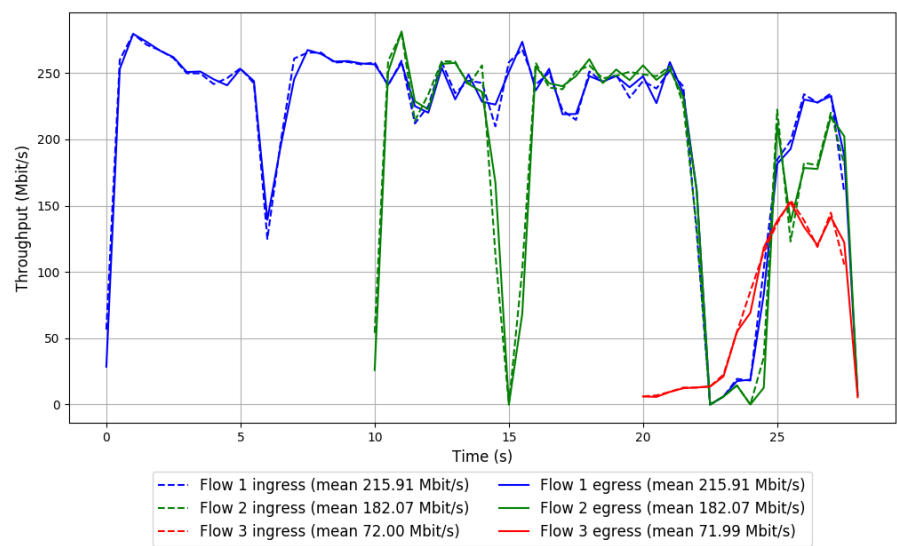
-- Flow 3:

Average throughput: 71.99 Mbit/s

95th percentile per-packet one-way delay: 64.449 ms

Loss rate: 0.00%

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

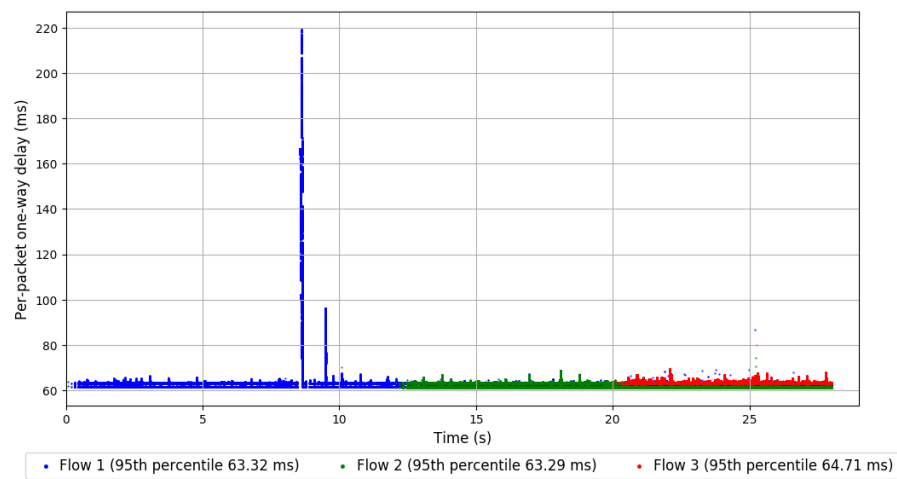
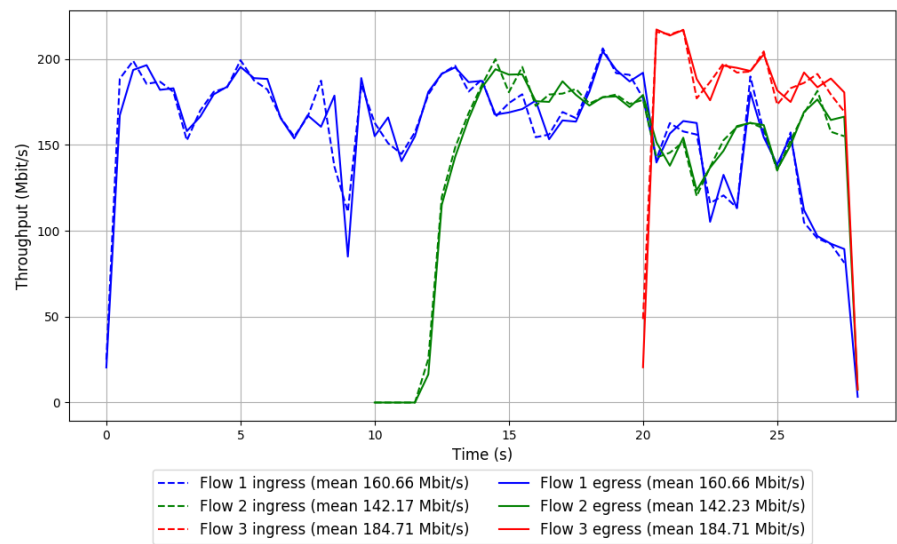


```
Run 9: Statistics of TaoVA-100x

Start at: 2017-10-12 21:20:34
End at: 2017-10-12 21:21:04

# Below is generated by plot.py at 2017-10-12 23:53:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 304.32 Mbit/s
95th percentile per-packet one-way delay: 63.653 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 160.66 Mbit/s
95th percentile per-packet one-way delay: 63.322 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 142.23 Mbit/s
95th percentile per-packet one-way delay: 63.287 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 184.71 Mbit/s
95th percentile per-packet one-way delay: 64.707 ms
Loss rate: 0.00%
```


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

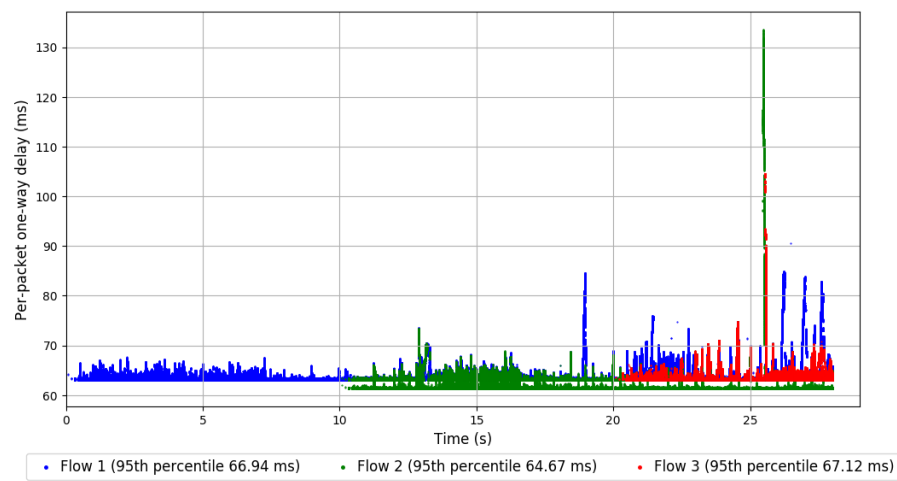
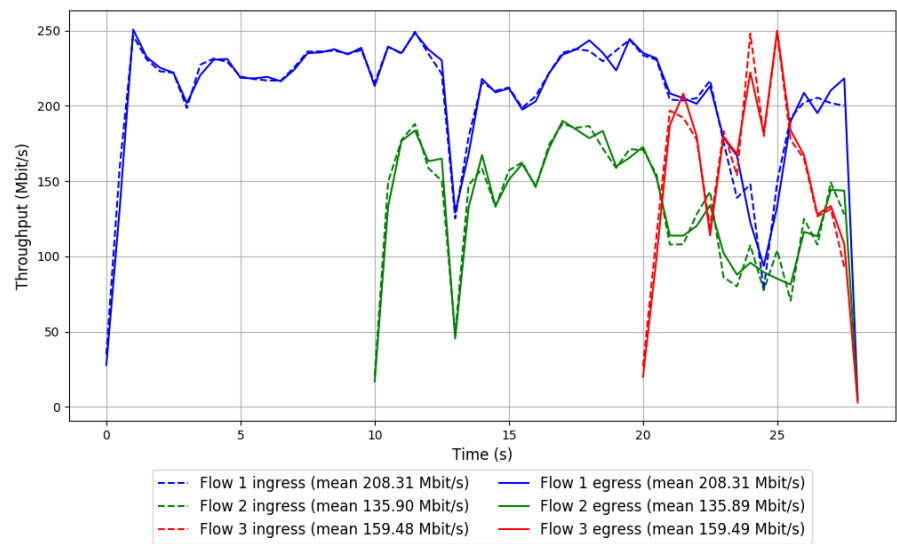


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-10-12 21:33:06
End at: 2017-10-12 21:33:36

# Below is generated by plot.py at 2017-10-12 23:54:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 340.81 Mbit/s
95th percentile per-packet one-way delay: 66.356 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 208.31 Mbit/s
95th percentile per-packet one-way delay: 66.937 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 135.89 Mbit/s
95th percentile per-packet one-way delay: 64.669 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 159.49 Mbit/s
95th percentile per-packet one-way delay: 67.116 ms
Loss rate: 0.00%
```

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

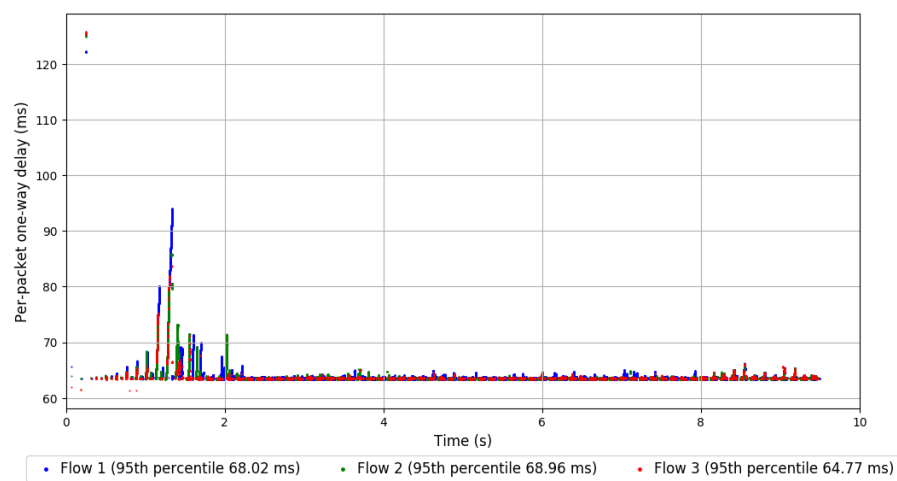
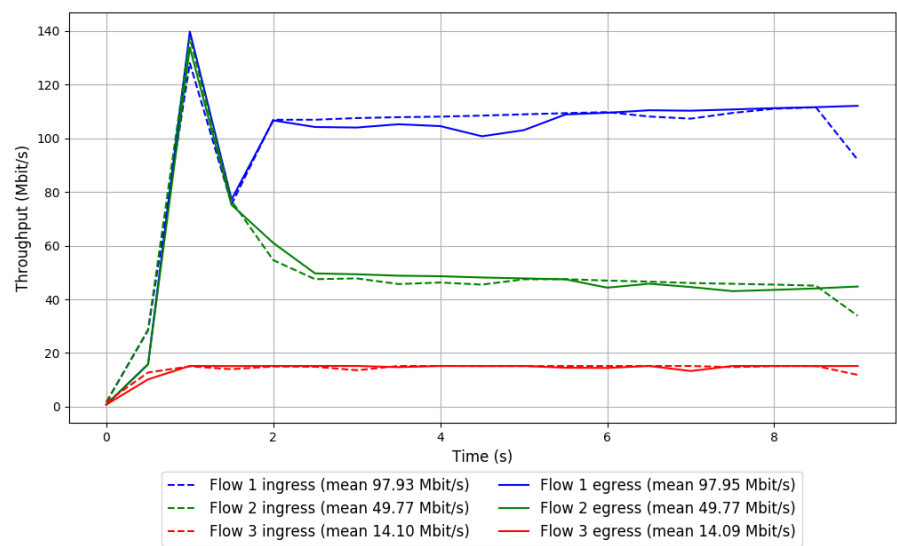


Run 1: Statistics of TCP Vegas

Start at: 2017-10-12 19:51:54

End at: 2017-10-12 19:52:24

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-10-12 20:04:38

End at: 2017-10-12 20:05:08

Below is generated by plot.py at 2017-10-12 23:54:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.20 Mbit/s

95th percentile per-packet one-way delay: 64.612 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 945.685 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 91.84 Mbit/s

95th percentile per-packet one-way delay: 64.669 ms

Loss rate: 0.00%

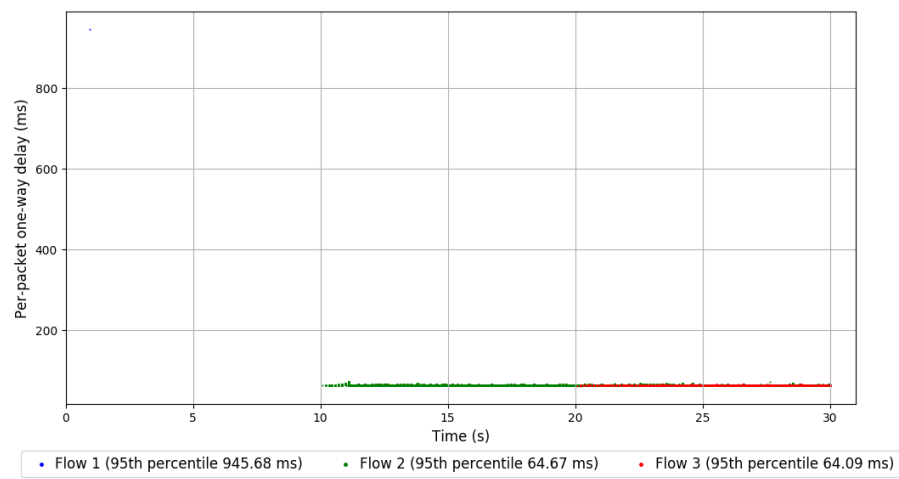
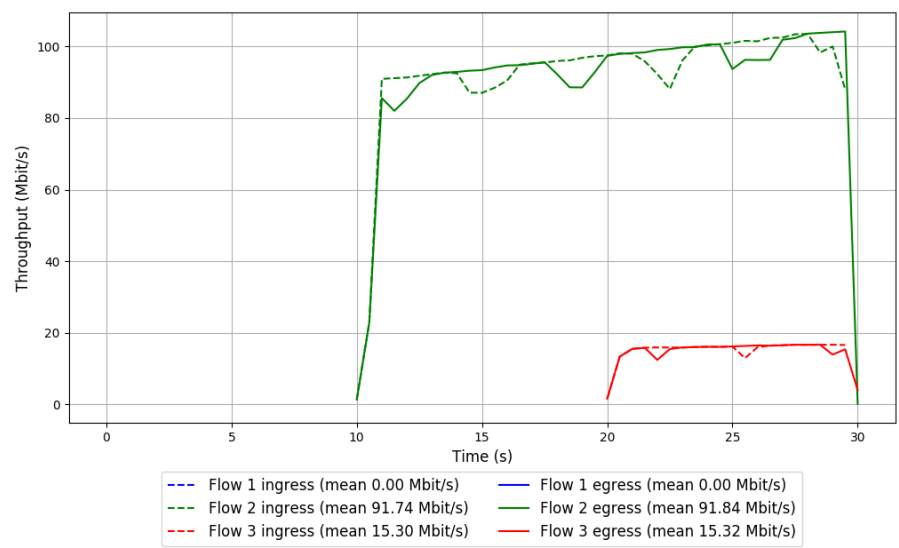
-- Flow 3:

Average throughput: 15.32 Mbit/s

95th percentile per-packet one-way delay: 64.093 ms

Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-10-12 20:16:31

End at: 2017-10-12 20:17:01

Below is generated by plot.py at 2017-10-12 23:54:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.08 Mbit/s

95th percentile per-packet one-way delay: 70.431 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 16.68 Mbit/s

95th percentile per-packet one-way delay: 67.057 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 30.47 Mbit/s

95th percentile per-packet one-way delay: 66.536 ms

Loss rate: 0.12%

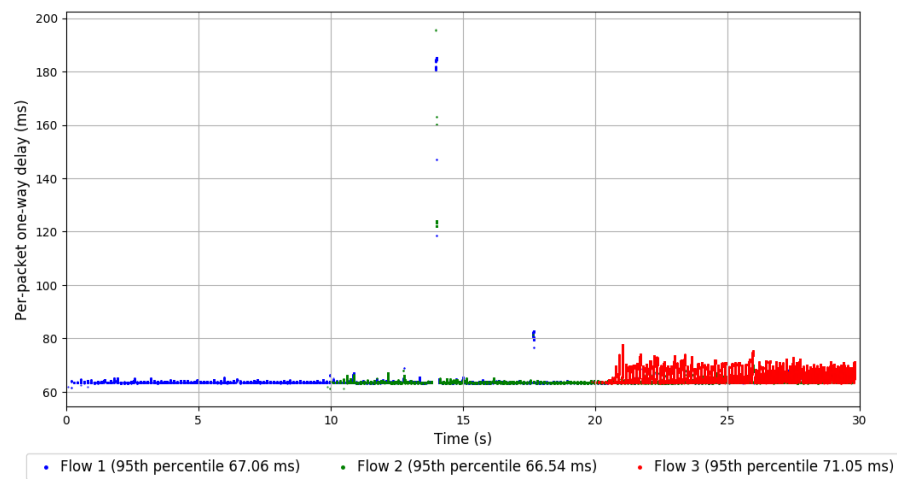
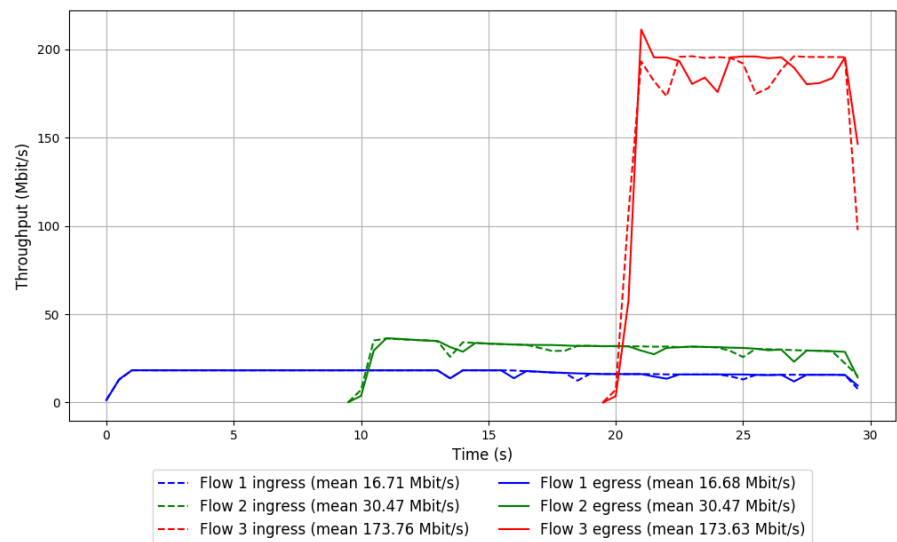
-- Flow 3:

Average throughput: 173.63 Mbit/s

95th percentile per-packet one-way delay: 71.048 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link

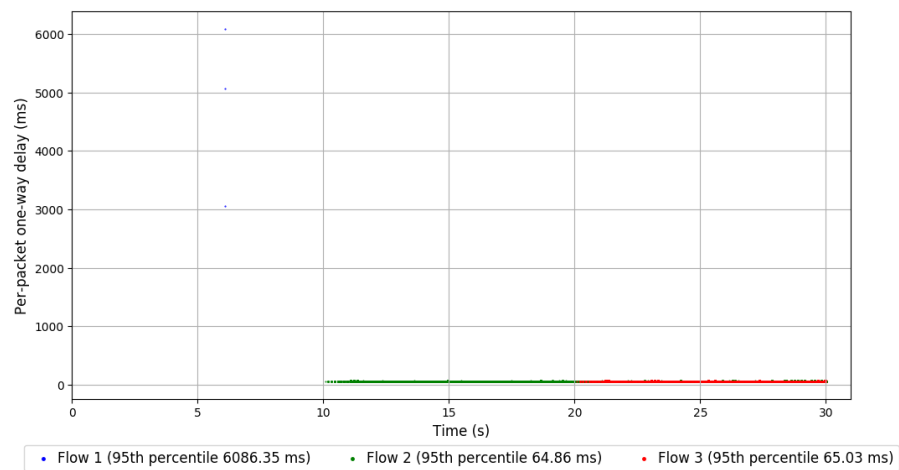
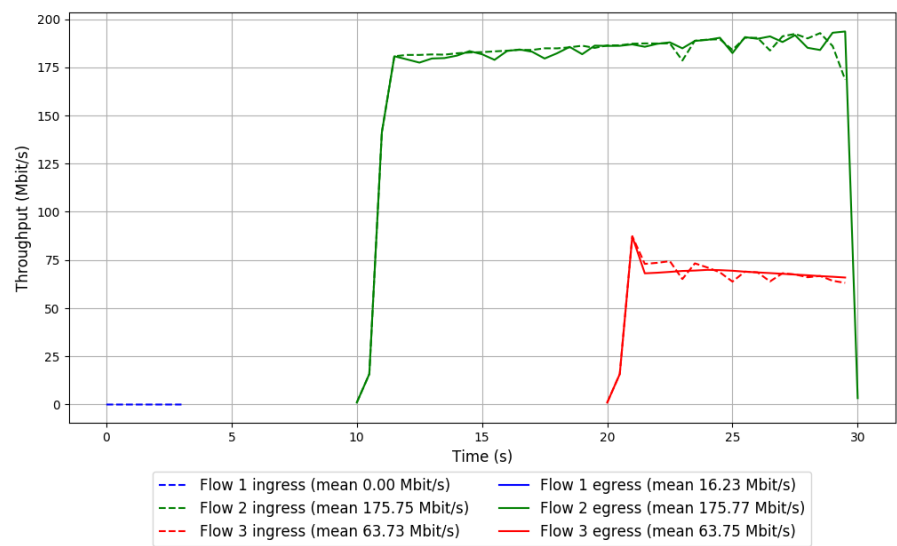


Run 4: Statistics of TCP Vegas

Start at: 2017-10-12 20:28:43

End at: 2017-10-12 20:29:13

Run 4: Report of TCP Vegas — Data Link

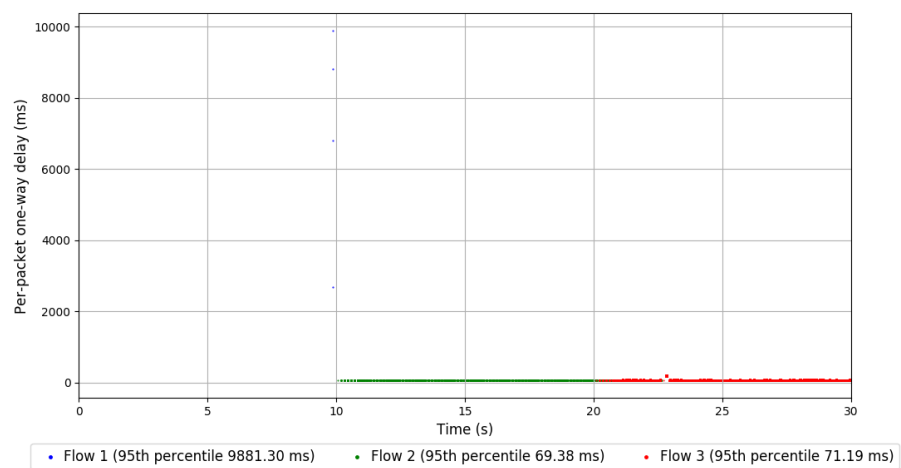
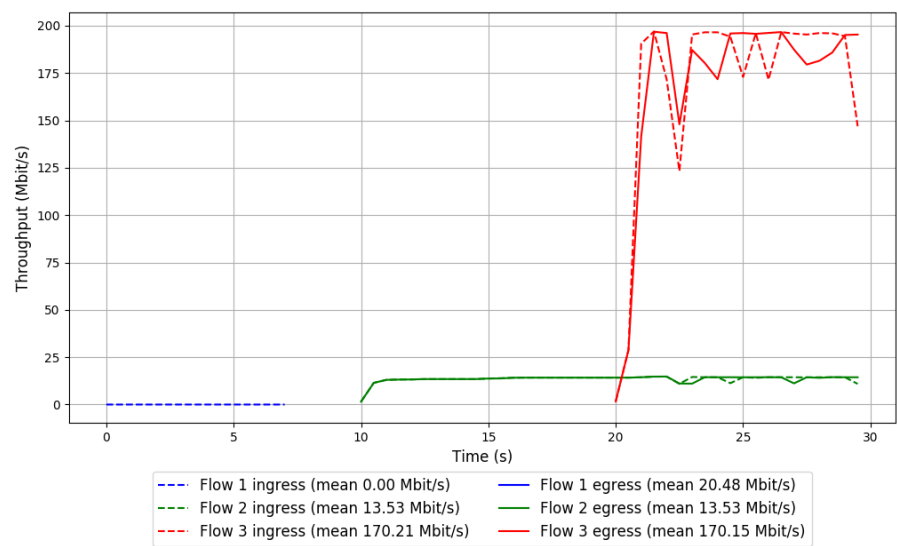


Run 5: Statistics of TCP Vegas

Start at: 2017-10-12 20:40:52

End at: 2017-10-12 20:41:22

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-10-12 20:53:32

End at: 2017-10-12 20:54:02

Below is generated by plot.py at 2017-10-12 23:54:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.57 Mbit/s

95th percentile per-packet one-way delay: 64.996 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 15.78 Mbit/s

95th percentile per-packet one-way delay: 3531.490 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 70.44 Mbit/s

95th percentile per-packet one-way delay: 64.832 ms

Loss rate: 0.00%

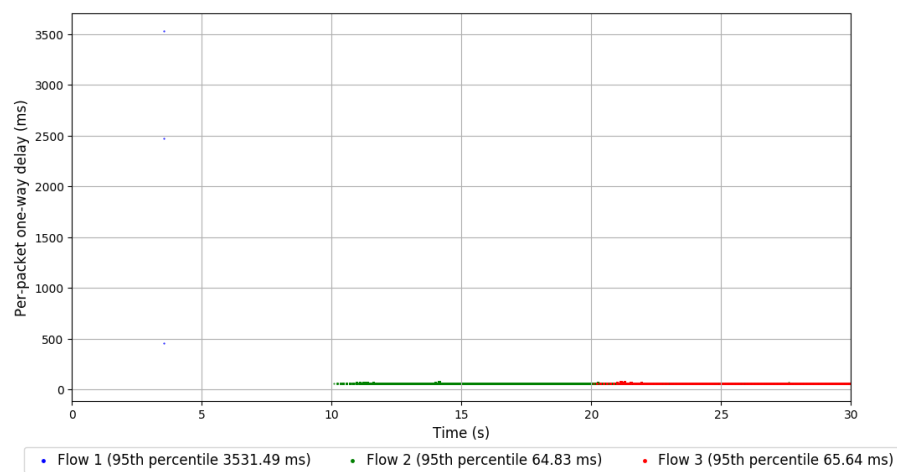
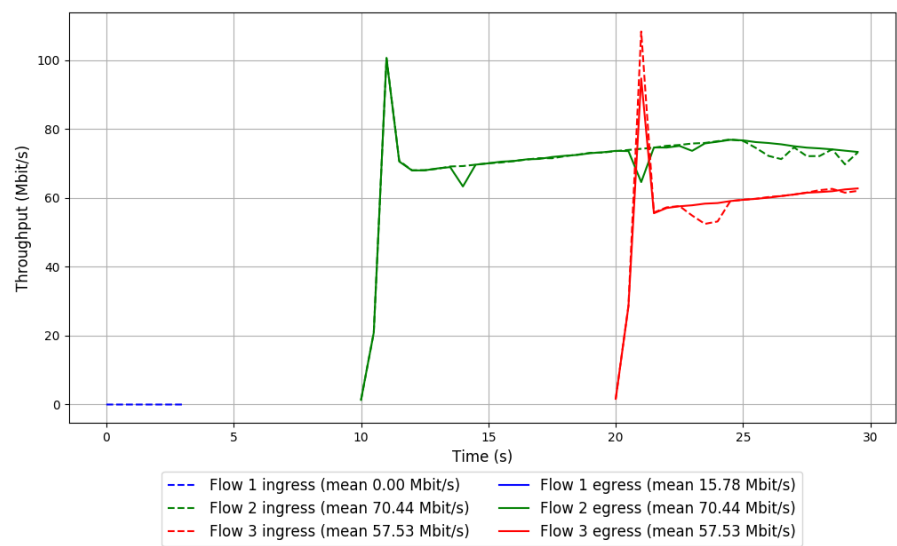
-- Flow 3:

Average throughput: 57.53 Mbit/s

95th percentile per-packet one-way delay: 65.640 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-10-12 21:06:10

End at: 2017-10-12 21:06:40

Below is generated by plot.py at 2017-10-12 23:54:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.41 Mbit/s

95th percentile per-packet one-way delay: 64.532 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 19.84 Mbit/s

95th percentile per-packet one-way delay: 63.902 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 17.92 Mbit/s

95th percentile per-packet one-way delay: 64.288 ms

Loss rate: 0.00%

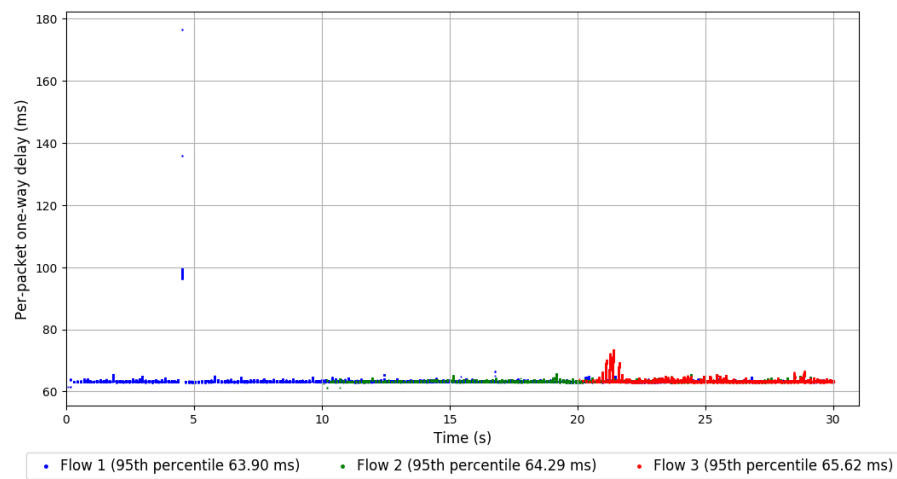
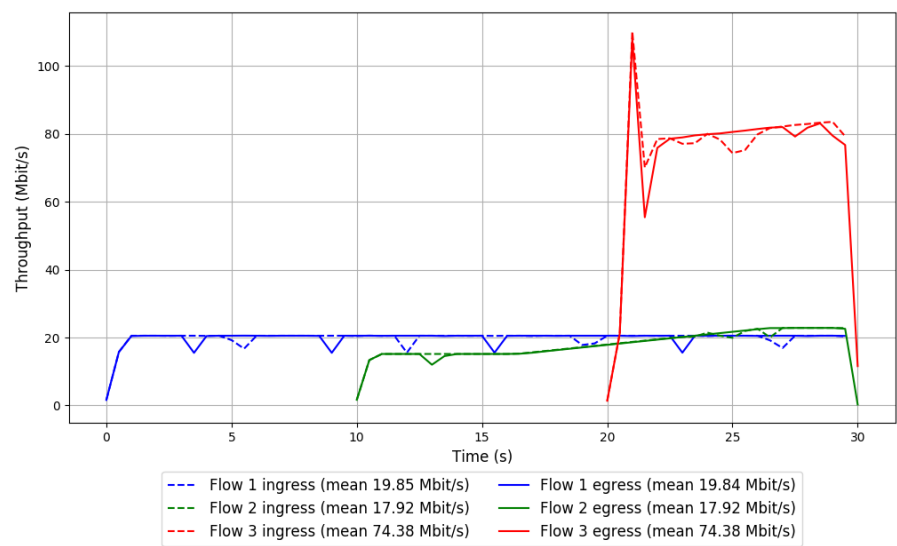
-- Flow 3:

Average throughput: 74.38 Mbit/s

95th percentile per-packet one-way delay: 65.625 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link

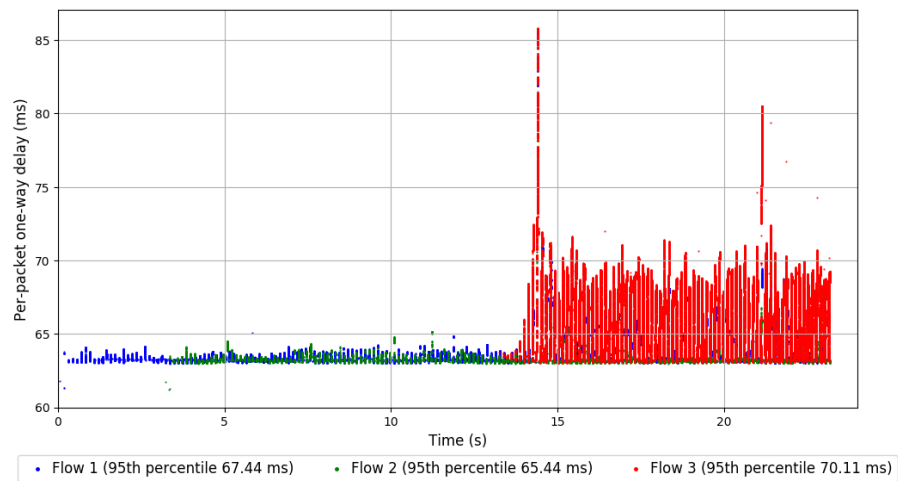
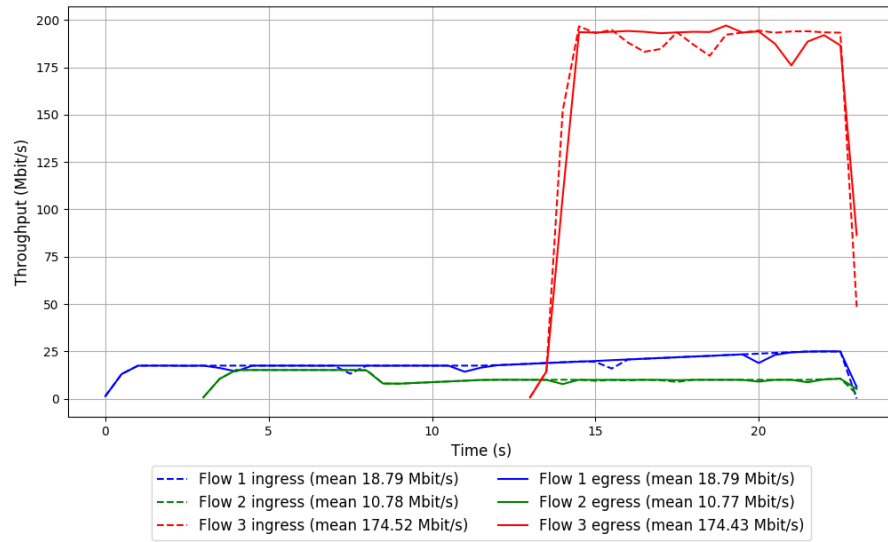


Run 8: Statistics of TCP Vegas

Start at: 2017-10-12 21:18:44

End at: 2017-10-12 21:19:14

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-10-12 21:31:16

End at: 2017-10-12 21:31:46

Below is generated by plot.py at 2017-10-12 23:54:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 98.49 Mbit/s

95th percentile per-packet one-way delay: 65.064 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 68.59 Mbit/s

95th percentile per-packet one-way delay: 65.285 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 30.99 Mbit/s

95th percentile per-packet one-way delay: 64.723 ms

Loss rate: 0.00%

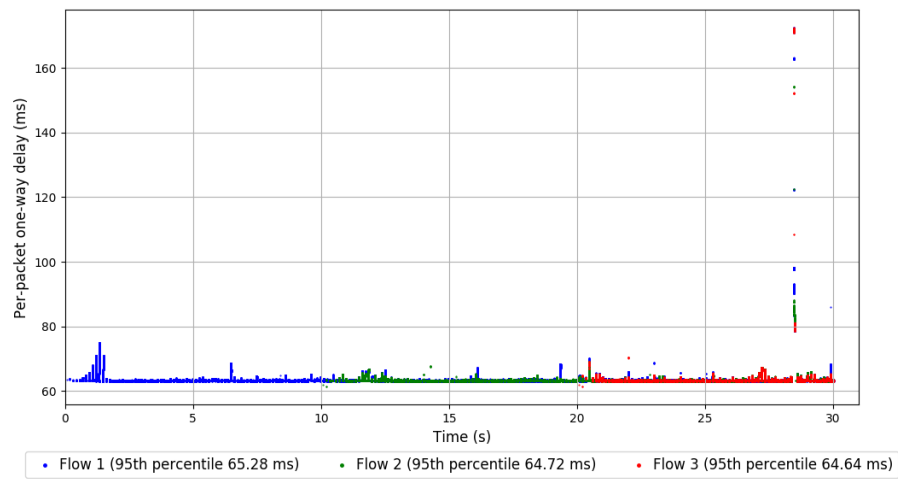
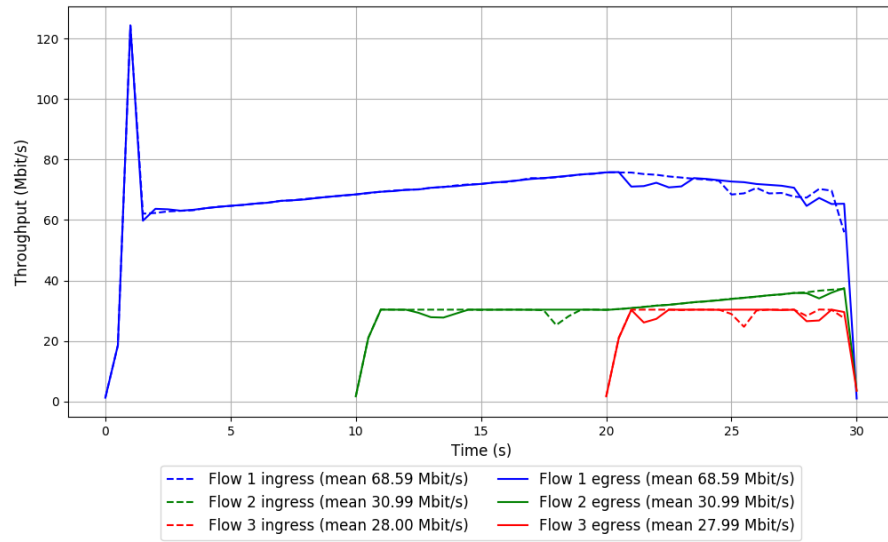
-- Flow 3:

Average throughput: 27.99 Mbit/s

95th percentile per-packet one-way delay: 64.638 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-10-12 21:43:52

End at: 2017-10-12 21:44:22

Below is generated by plot.py at 2017-10-12 23:54:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.25 Mbit/s

95th percentile per-packet one-way delay: 64.895 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 22.00 Mbit/s

95th percentile per-packet one-way delay: 64.112 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 34.23 Mbit/s

95th percentile per-packet one-way delay: 64.514 ms

Loss rate: 0.00%

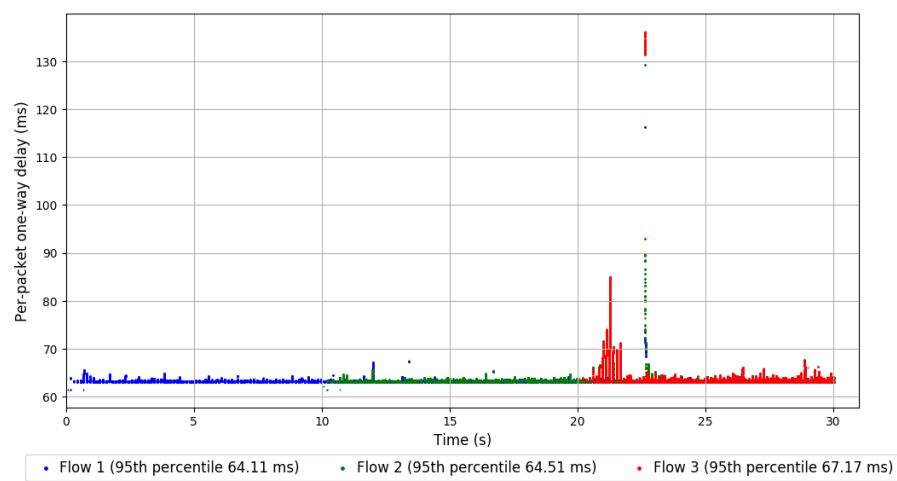
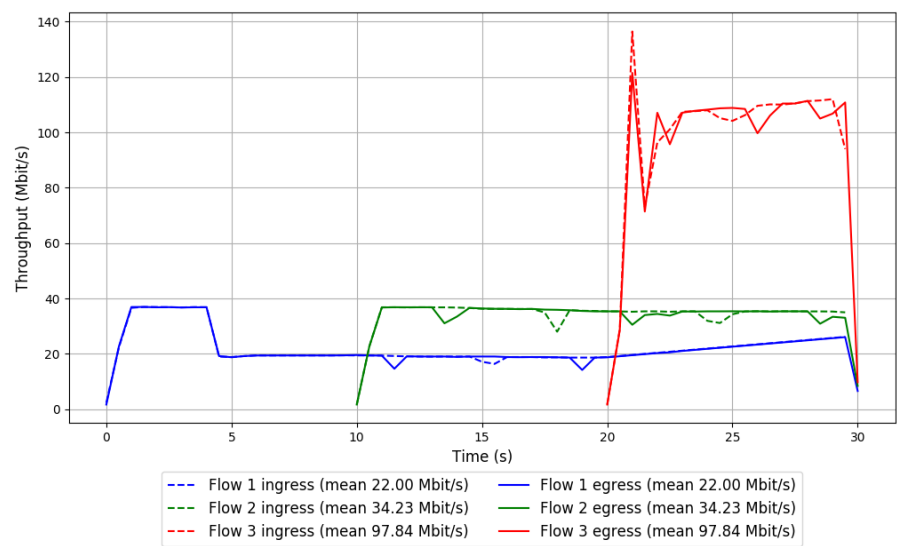
-- Flow 3:

Average throughput: 97.84 Mbit/s

95th percentile per-packet one-way delay: 67.172 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

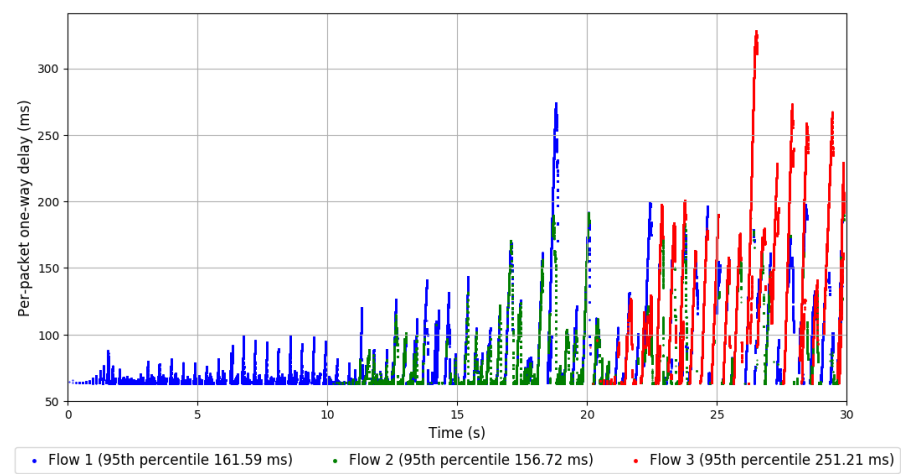
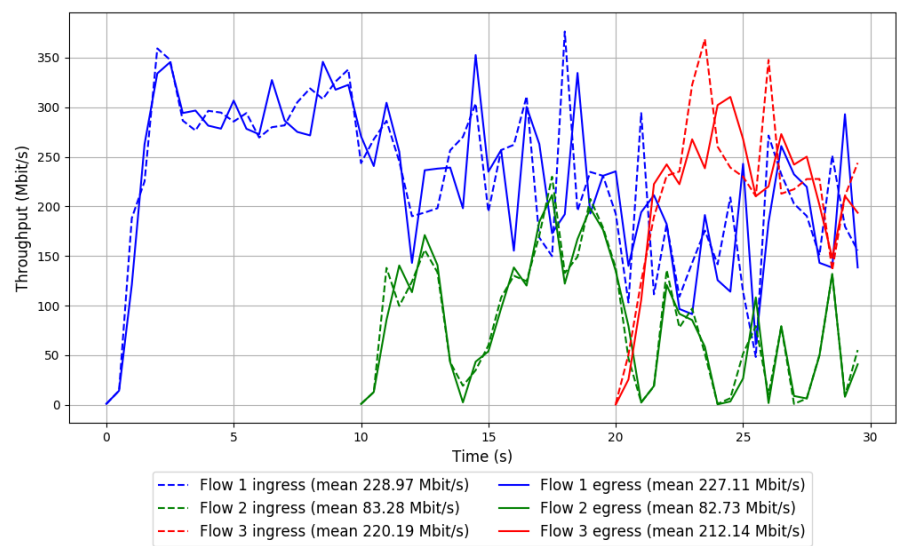


```
Run 1: Statistics of Verus

Start at: 2017-10-12 19:50:47
End at: 2017-10-12 19:51:17

# Below is generated by plot.py at 2017-10-12 23:54:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 351.54 Mbit/s
95th percentile per-packet one-way delay: 187.136 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 227.11 Mbit/s
95th percentile per-packet one-way delay: 161.589 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 82.73 Mbit/s
95th percentile per-packet one-way delay: 156.715 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 212.14 Mbit/s
95th percentile per-packet one-way delay: 251.207 ms
Loss rate: 3.05%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-10-12 20:03:31

End at: 2017-10-12 20:04:01

Below is generated by plot.py at 2017-10-12 23:55:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 355.96 Mbit/s

95th percentile per-packet one-way delay: 166.881 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 244.12 Mbit/s

95th percentile per-packet one-way delay: 177.343 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 129.41 Mbit/s

95th percentile per-packet one-way delay: 136.090 ms

Loss rate: 0.32%

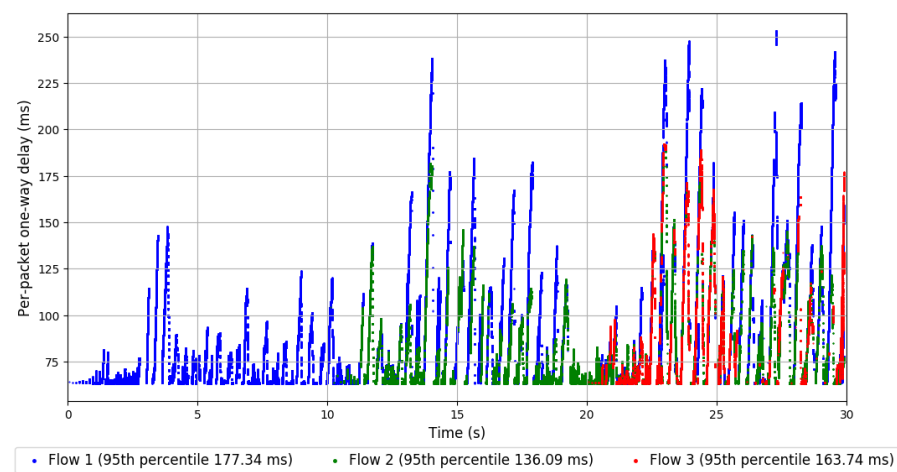
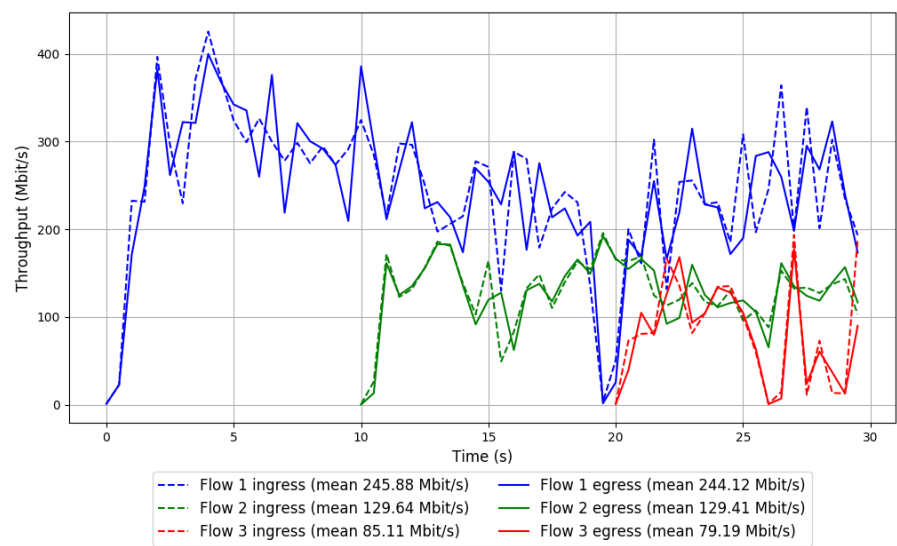
-- Flow 3:

Average throughput: 79.19 Mbit/s

95th percentile per-packet one-way delay: 163.740 ms

Loss rate: 6.44%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-10-12 20:15:28

End at: 2017-10-12 20:15:58

Below is generated by plot.py at 2017-10-12 23:55:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 294.61 Mbit/s

95th percentile per-packet one-way delay: 192.611 ms

Loss rate: 2.51%

-- Flow 1:

Average throughput: 161.84 Mbit/s

95th percentile per-packet one-way delay: 171.404 ms

Loss rate: 1.79%

-- Flow 2:

Average throughput: 158.89 Mbit/s

95th percentile per-packet one-way delay: 207.815 ms

Loss rate: 3.15%

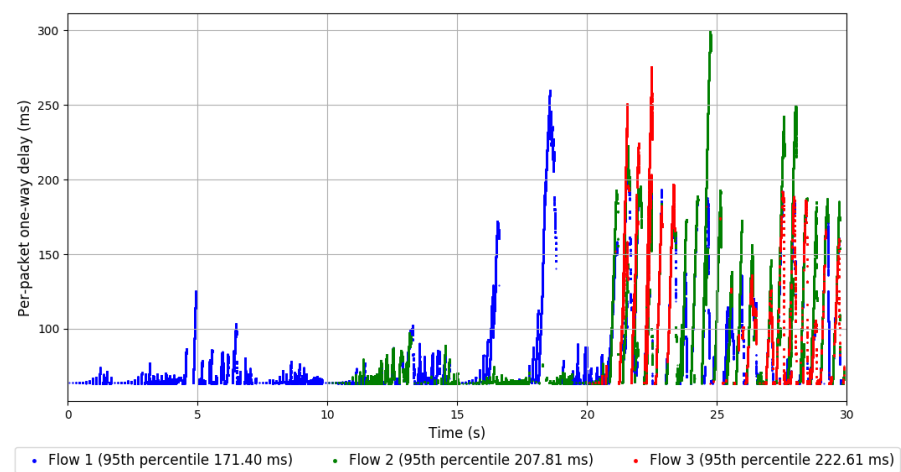
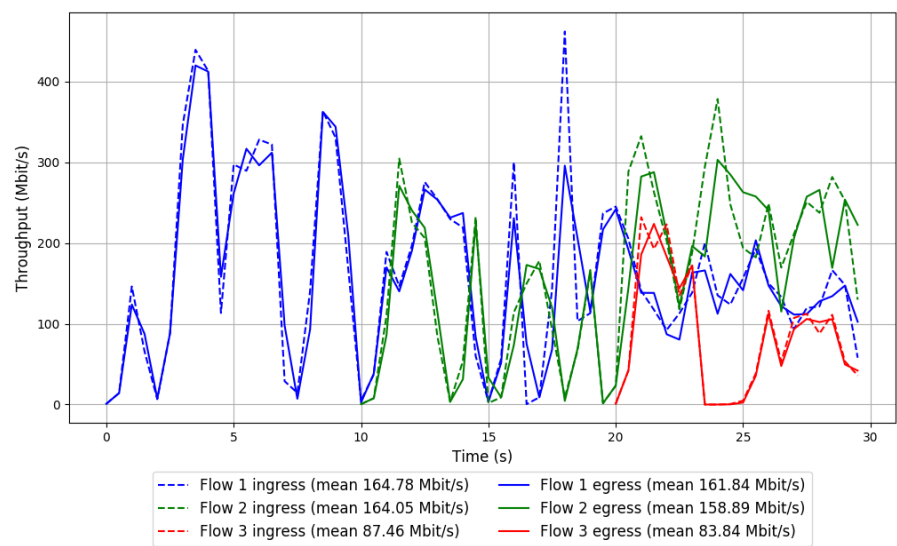
-- Flow 3:

Average throughput: 83.84 Mbit/s

95th percentile per-packet one-way delay: 222.610 ms

Loss rate: 4.13%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-10-12 20:27:38

End at: 2017-10-12 20:28:08

Below is generated by plot.py at 2017-10-12 23:55:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 316.63 Mbit/s

95th percentile per-packet one-way delay: 118.128 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 189.18 Mbit/s

95th percentile per-packet one-way delay: 108.815 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 156.96 Mbit/s

95th percentile per-packet one-way delay: 122.686 ms

Loss rate: 0.00%

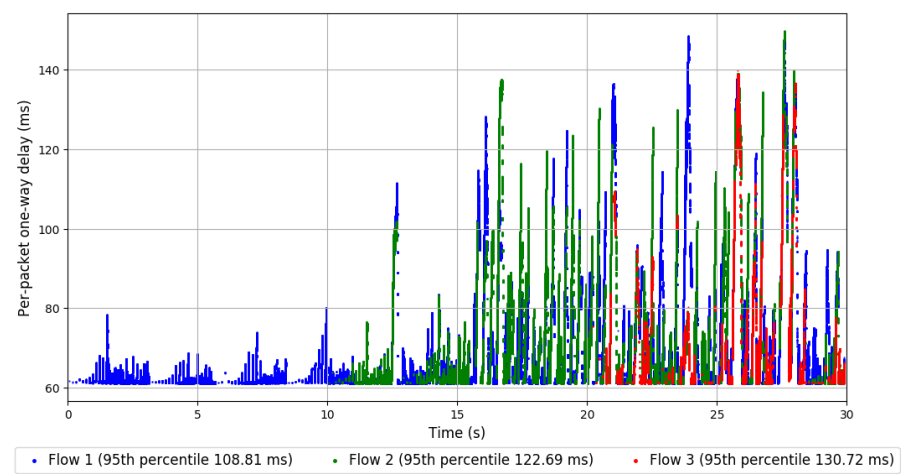
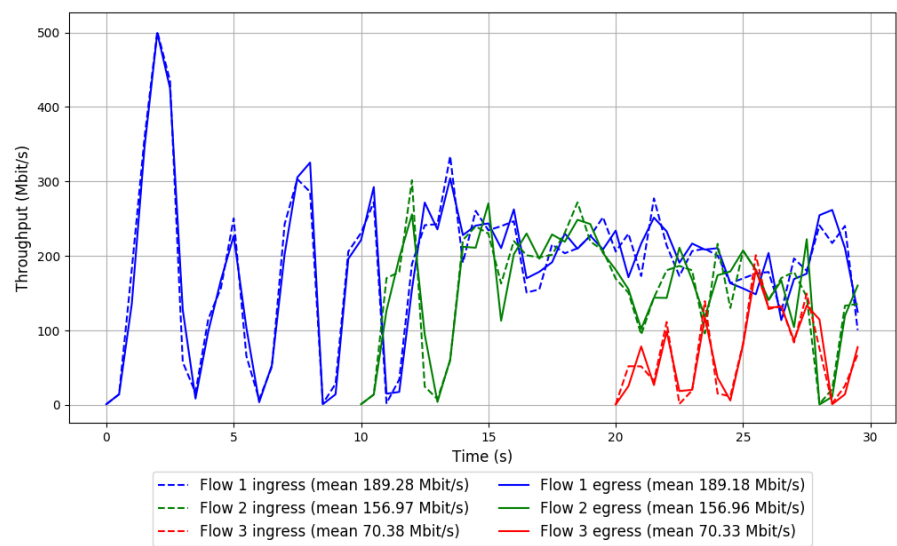
-- Flow 3:

Average throughput: 70.33 Mbit/s

95th percentile per-packet one-way delay: 130.724 ms

Loss rate: 0.19%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-10-12 20:39:44

End at: 2017-10-12 20:40:14

Below is generated by plot.py at 2017-10-12 23:56:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 363.47 Mbit/s

95th percentile per-packet one-way delay: 178.813 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 193.61 Mbit/s

95th percentile per-packet one-way delay: 141.983 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 193.46 Mbit/s

95th percentile per-packet one-way delay: 228.014 ms

Loss rate: 0.58%

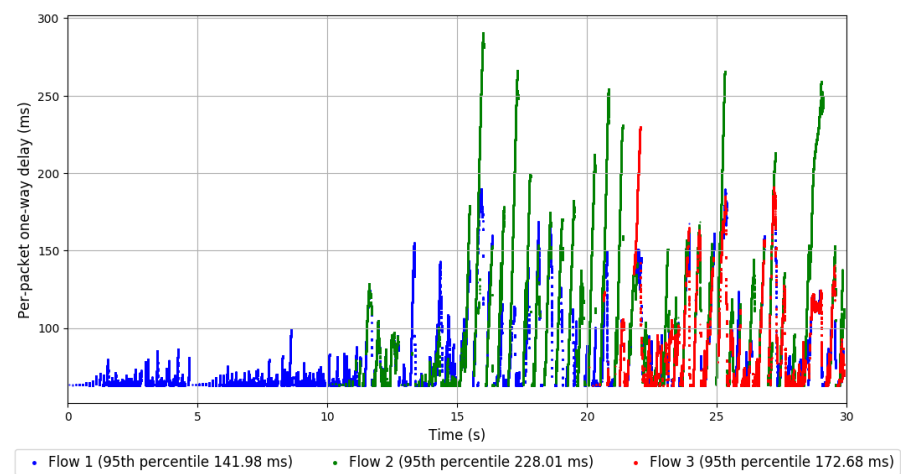
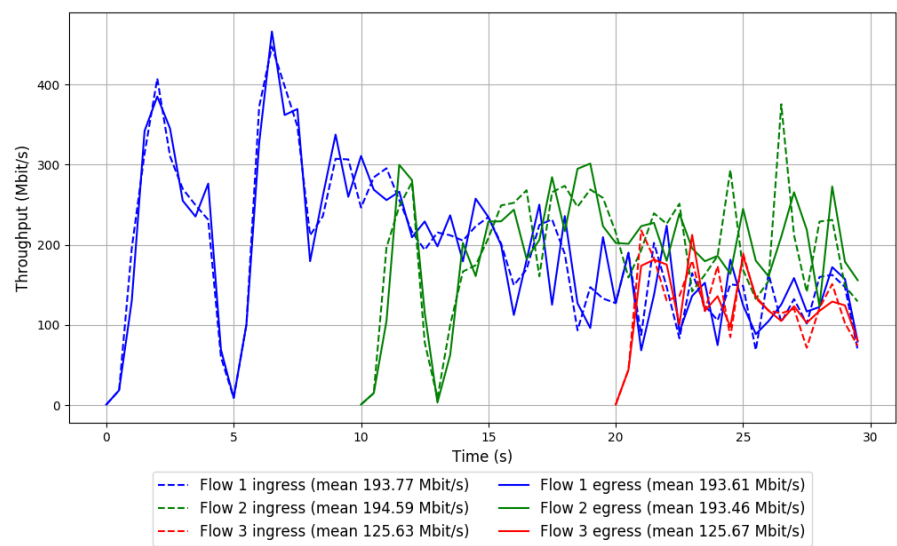
-- Flow 3:

Average throughput: 125.67 Mbit/s

95th percentile per-packet one-way delay: 172.680 ms

Loss rate: 0.08%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-10-12 20:52:26

End at: 2017-10-12 20:52:56

Below is generated by plot.py at 2017-10-12 23:58:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 336.80 Mbit/s

95th percentile per-packet one-way delay: 117.209 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 230.80 Mbit/s

95th percentile per-packet one-way delay: 115.857 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 117.46 Mbit/s

95th percentile per-packet one-way delay: 123.062 ms

Loss rate: 0.71%

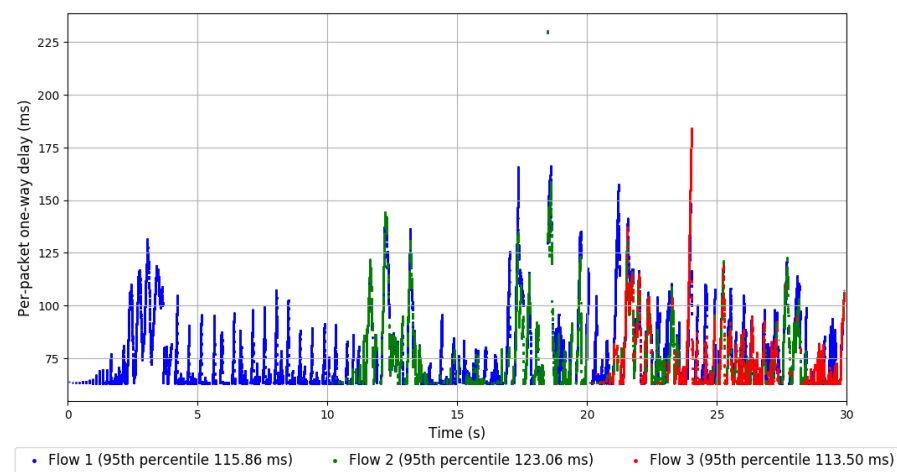
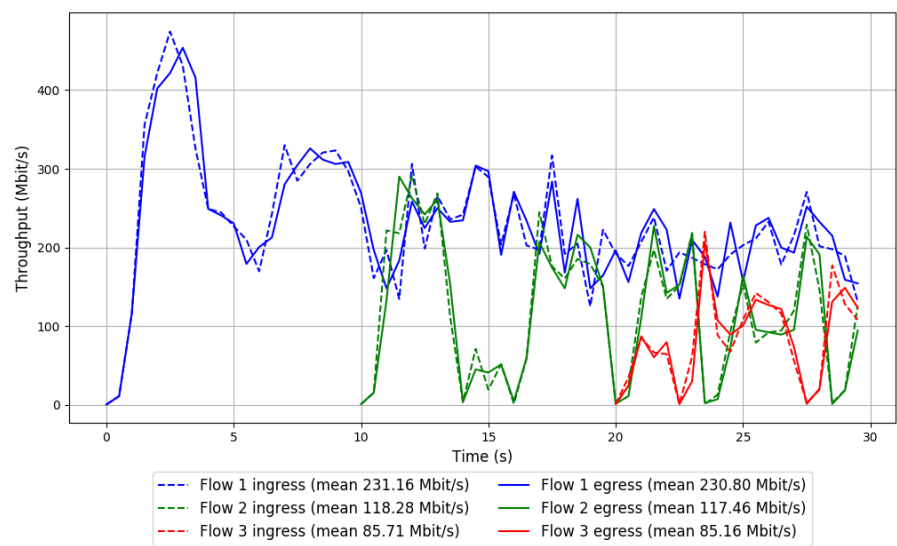
-- Flow 3:

Average throughput: 85.16 Mbit/s

95th percentile per-packet one-way delay: 113.496 ms

Loss rate: 0.58%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-10-12 21:05:04

End at: 2017-10-12 21:05:34

Below is generated by plot.py at 2017-10-12 23:59:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 336.34 Mbit/s

95th percentile per-packet one-way delay: 146.586 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 208.25 Mbit/s

95th percentile per-packet one-way delay: 159.776 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 148.43 Mbit/s

95th percentile per-packet one-way delay: 129.607 ms

Loss rate: 0.09%

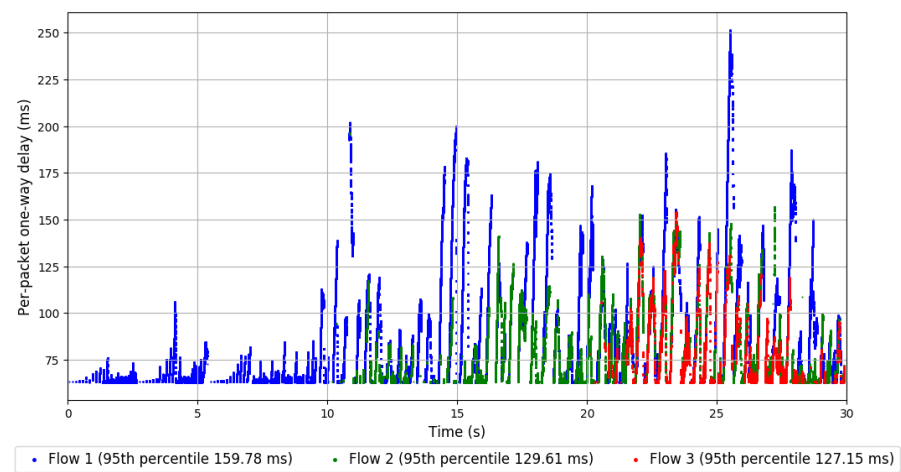
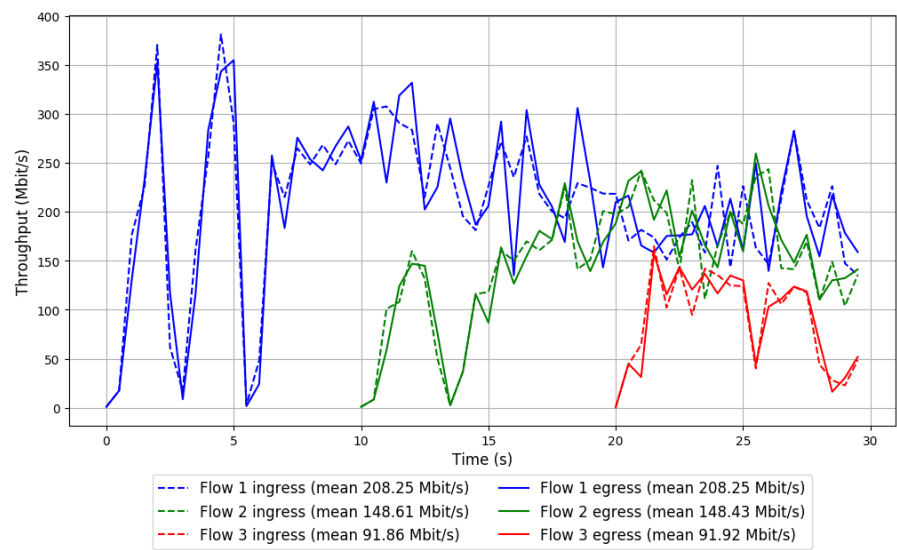
-- Flow 3:

Average throughput: 91.92 Mbit/s

95th percentile per-packet one-way delay: 127.146 ms

Loss rate: 0.05%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-10-12 21:17:39

End at: 2017-10-12 21:18:09

Below is generated by plot.py at 2017-10-13 00:00:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 309.26 Mbit/s

95th percentile per-packet one-way delay: 158.382 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 201.76 Mbit/s

95th percentile per-packet one-way delay: 114.876 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 141.20 Mbit/s

95th percentile per-packet one-way delay: 240.234 ms

Loss rate: 2.94%

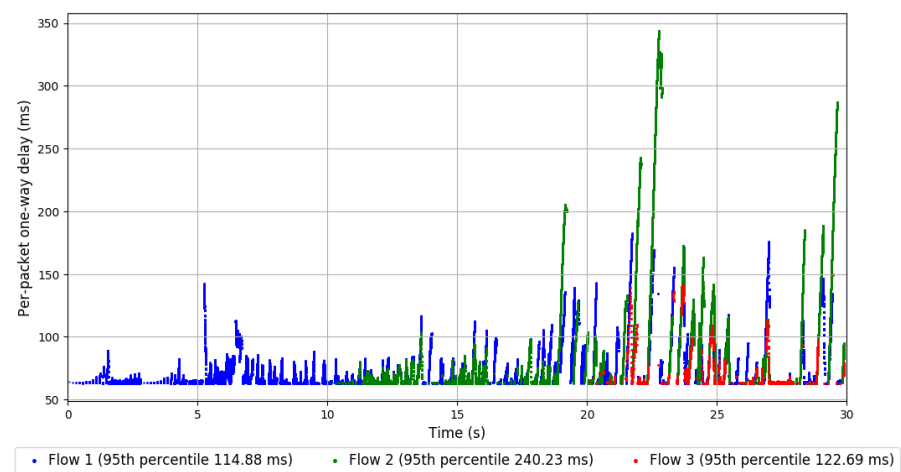
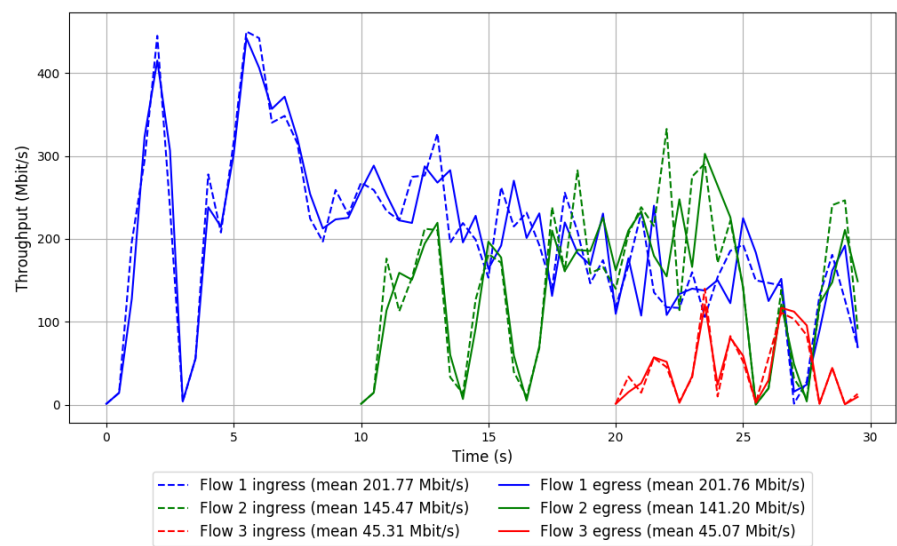
-- Flow 3:

Average throughput: 45.07 Mbit/s

95th percentile per-packet one-way delay: 122.694 ms

Loss rate: 0.41%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-10-12 21:30:11

End at: 2017-10-12 21:30:41

Below is generated by plot.py at 2017-10-13 00:00:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 328.21 Mbit/s

95th percentile per-packet one-way delay: 108.129 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 197.71 Mbit/s

95th percentile per-packet one-way delay: 104.154 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 154.88 Mbit/s

95th percentile per-packet one-way delay: 117.606 ms

Loss rate: 0.17%

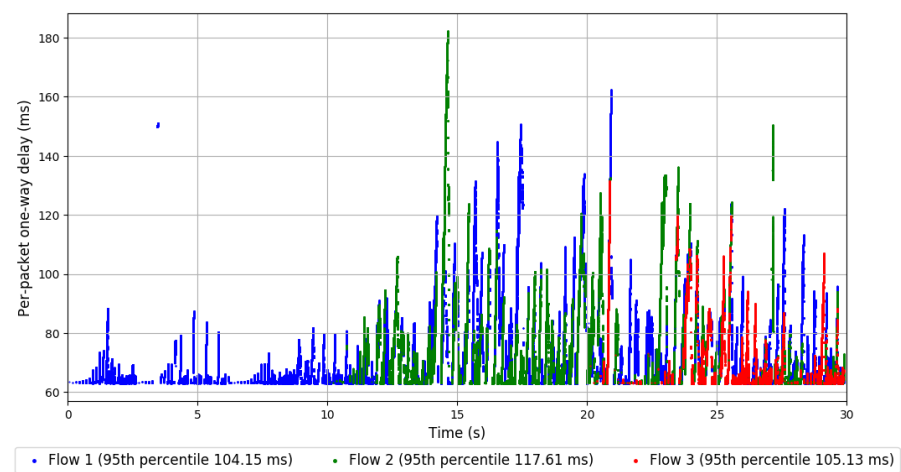
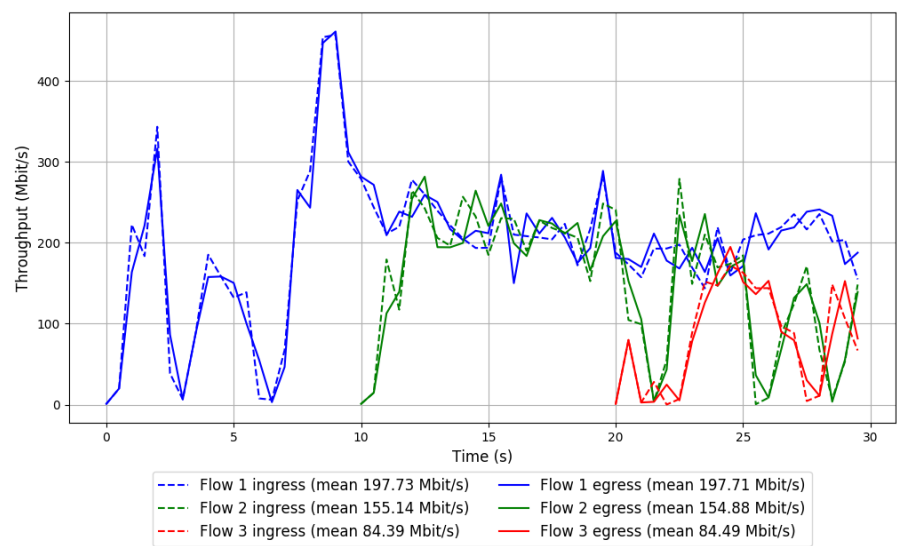
-- Flow 3:

Average throughput: 84.49 Mbit/s

95th percentile per-packet one-way delay: 105.130 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-10-12 21:42:51

End at: 2017-10-12 21:43:21

Below is generated by plot.py at 2017-10-13 00:00:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 268.84 Mbit/s

95th percentile per-packet one-way delay: 200.810 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 138.22 Mbit/s

95th percentile per-packet one-way delay: 198.239 ms

Loss rate: 1.24%

-- Flow 2:

Average throughput: 156.06 Mbit/s

95th percentile per-packet one-way delay: 206.826 ms

Loss rate: 0.14%

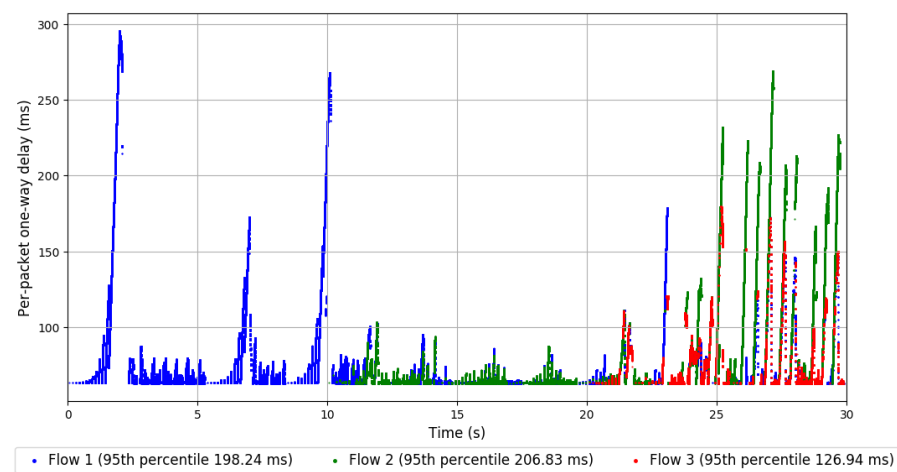
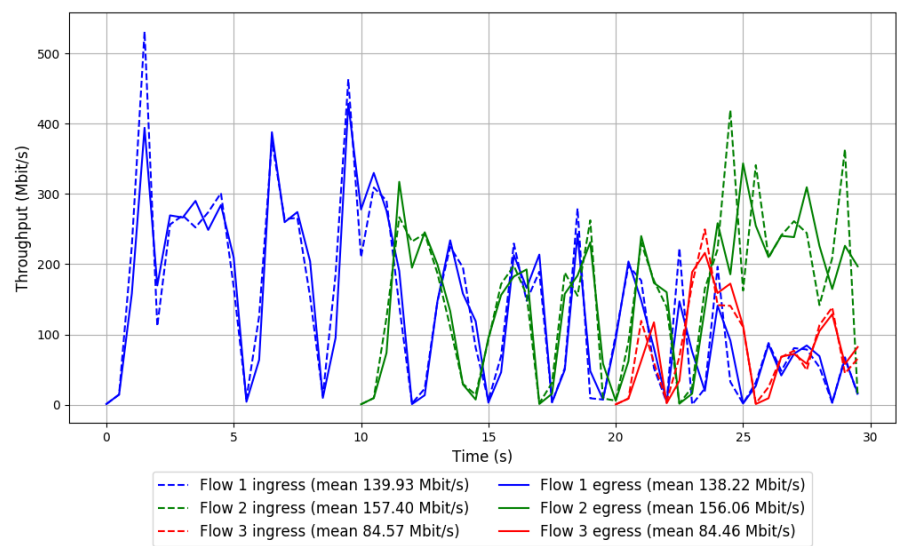
-- Flow 3:

Average throughput: 84.46 Mbit/s

95th percentile per-packet one-way delay: 126.944 ms

Loss rate: 0.13%

Run 10: Report of Verus — Data Link

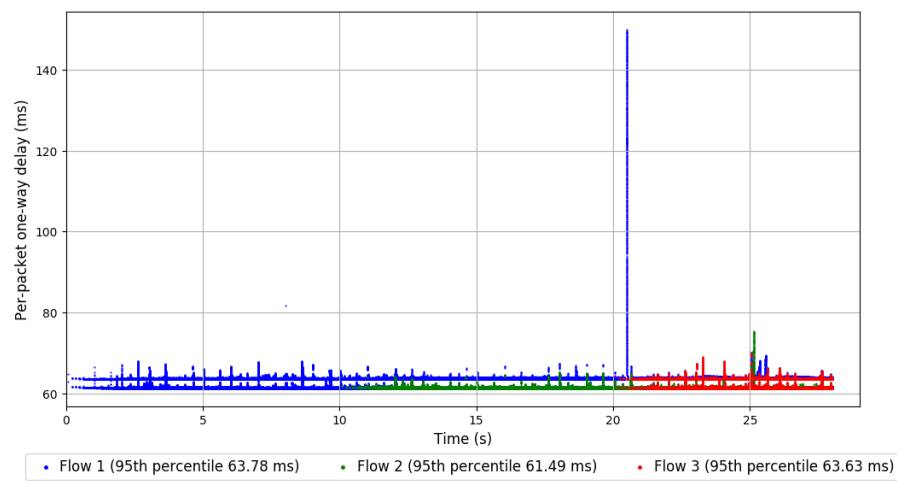
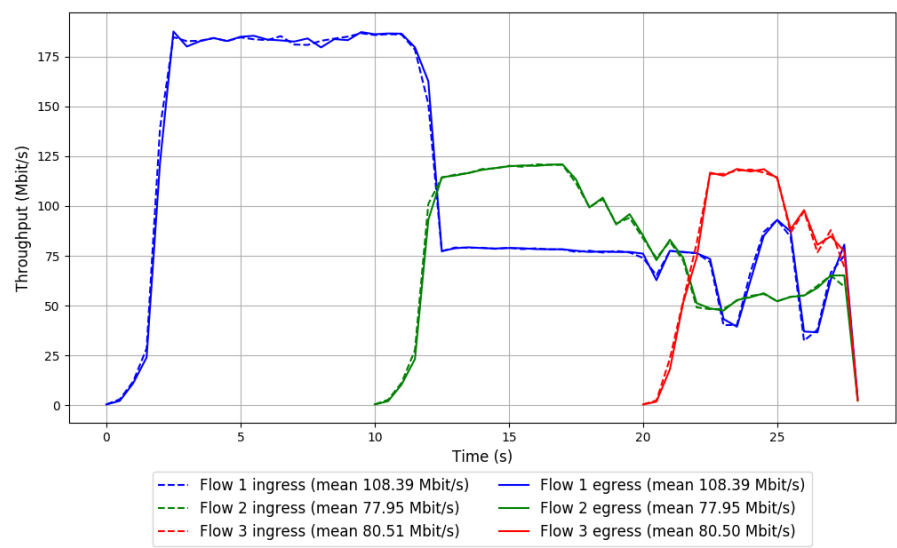


```
Run 1: Statistics of Copa

Start at: 2017-10-12 19:44:22
End at: 2017-10-12 19:44:52

# Below is generated by plot.py at 2017-10-13 00:00:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 181.26 Mbit/s
95th percentile per-packet one-way delay: 63.716 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 108.39 Mbit/s
95th percentile per-packet one-way delay: 63.779 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 77.95 Mbit/s
95th percentile per-packet one-way delay: 61.494 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 80.50 Mbit/s
95th percentile per-packet one-way delay: 63.634 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-10-12 19:57:08

End at: 2017-10-12 19:57:38

Below is generated by plot.py at 2017-10-13 00:00:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 143.76 Mbit/s

95th percentile per-packet one-way delay: 63.616 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 60.45 Mbit/s

95th percentile per-packet one-way delay: 63.672 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 87.63 Mbit/s

95th percentile per-packet one-way delay: 63.491 ms

Loss rate: 0.01%

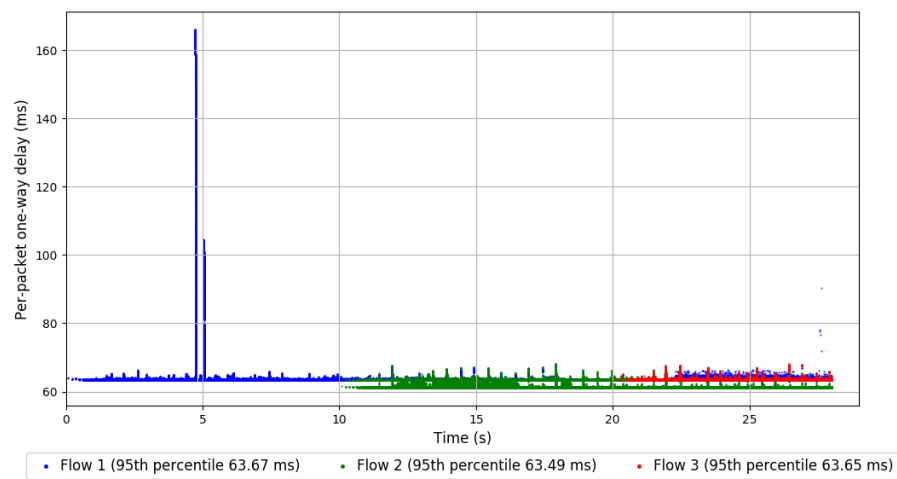
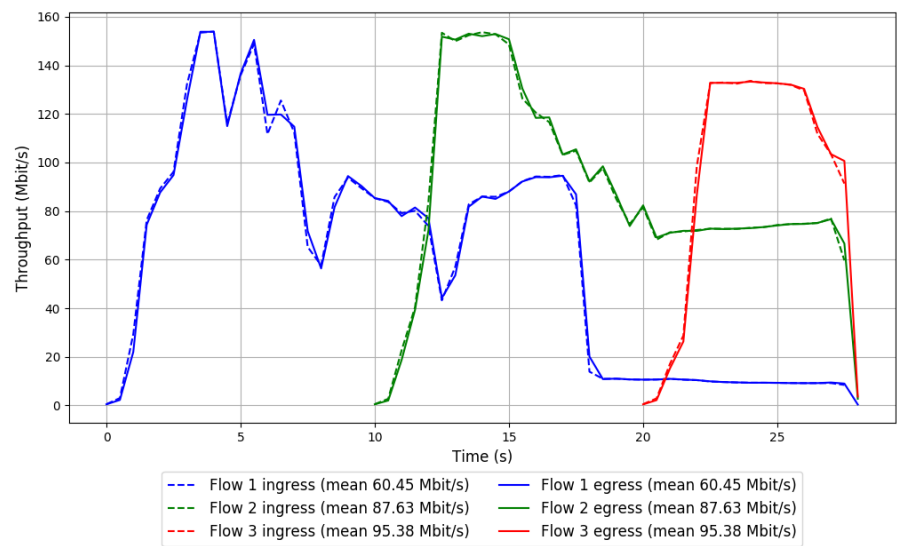
-- Flow 3:

Average throughput: 95.38 Mbit/s

95th percentile per-packet one-way delay: 63.646 ms

Loss rate: 0.02%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-10-12 20:09:07

End at: 2017-10-12 20:09:37

Below is generated by plot.py at 2017-10-13 00:01:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 153.04 Mbit/s

95th percentile per-packet one-way delay: 63.574 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 75.76 Mbit/s

95th percentile per-packet one-way delay: 63.626 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 86.01 Mbit/s

95th percentile per-packet one-way delay: 63.484 ms

Loss rate: 0.00%

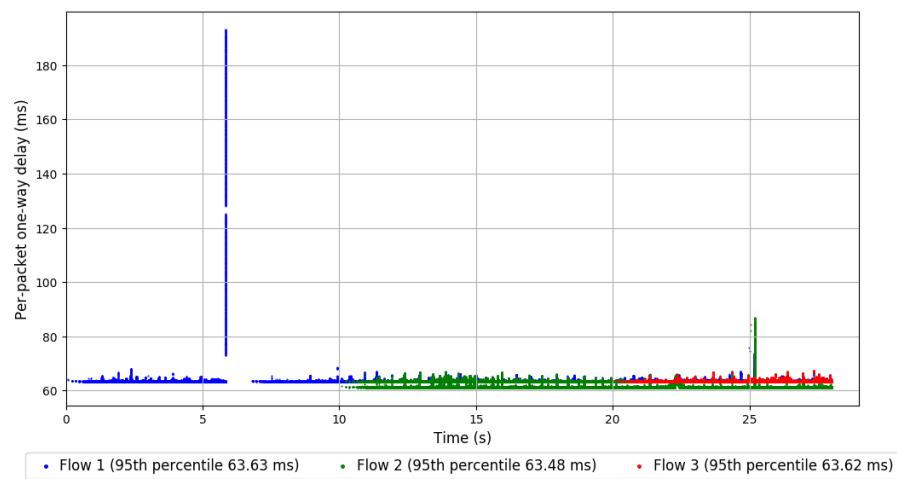
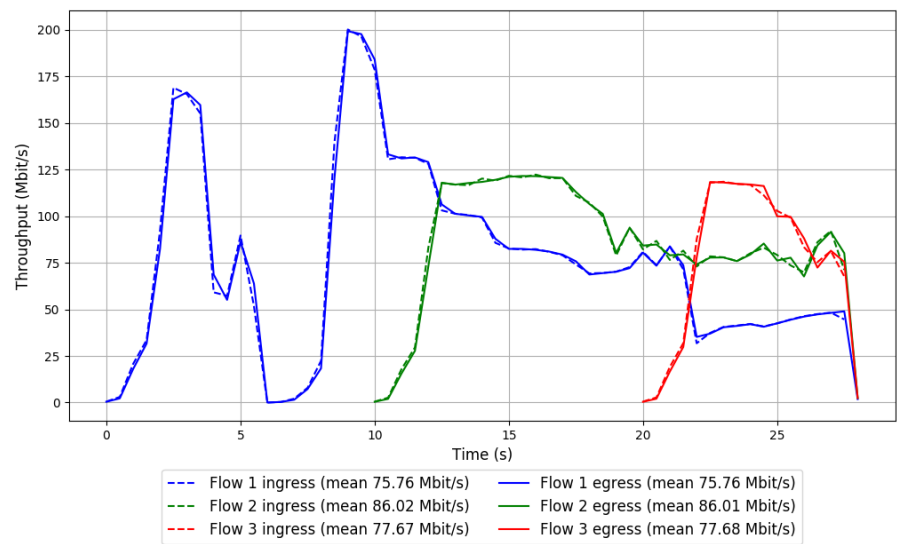
-- Flow 3:

Average throughput: 77.68 Mbit/s

95th percentile per-packet one-way delay: 63.617 ms

Loss rate: 0.01%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-10-12 20:21:10

End at: 2017-10-12 20:21:40

Below is generated by plot.py at 2017-10-13 00:03:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 173.97 Mbit/s

95th percentile per-packet one-way delay: 63.581 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 106.20 Mbit/s

95th percentile per-packet one-way delay: 63.678 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 74.65 Mbit/s

95th percentile per-packet one-way delay: 61.484 ms

Loss rate: 0.00%

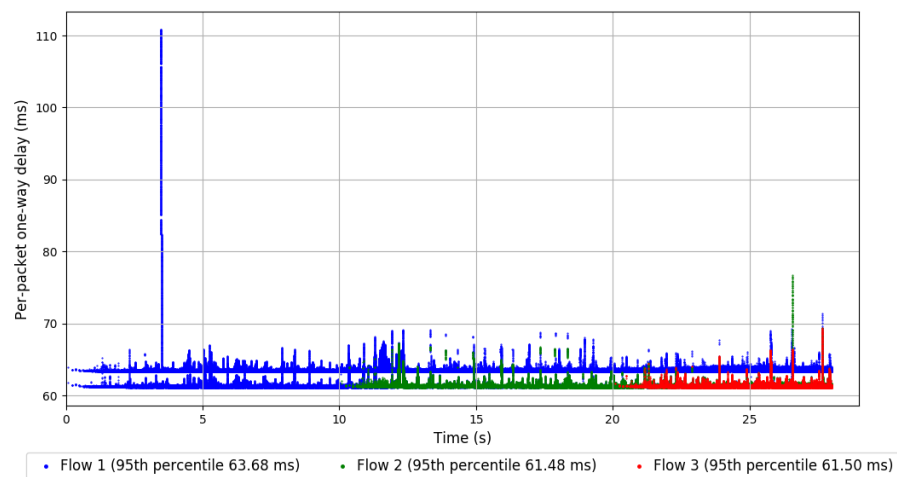
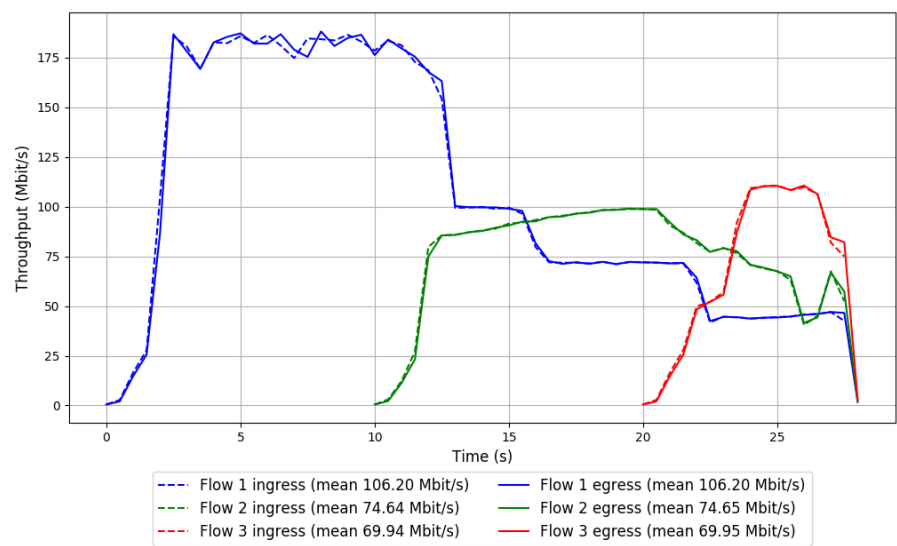
-- Flow 3:

Average throughput: 69.95 Mbit/s

95th percentile per-packet one-way delay: 61.498 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-10-12 20:33:23

End at: 2017-10-12 20:33:53

Below is generated by plot.py at 2017-10-13 00:03:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.29 Mbit/s

95th percentile per-packet one-way delay: 63.498 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.59 Mbit/s

95th percentile per-packet one-way delay: 63.600 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.03 Mbit/s

95th percentile per-packet one-way delay: 61.332 ms

Loss rate: 0.00%

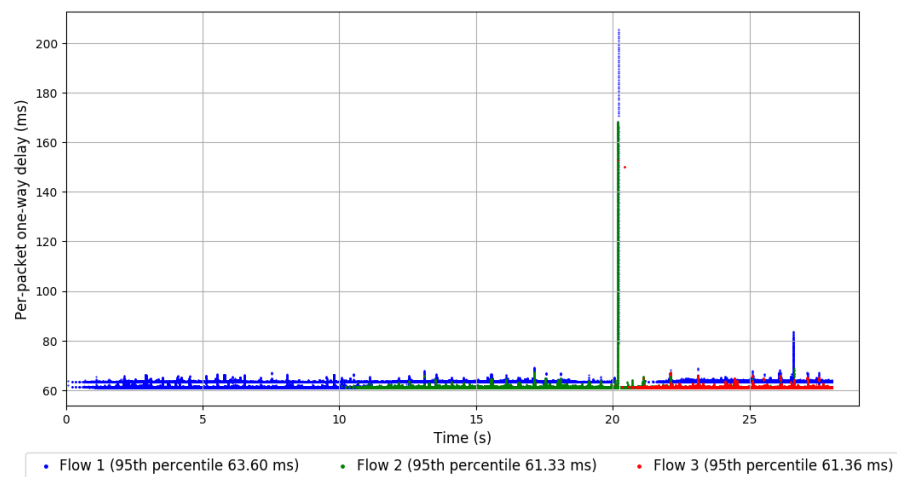
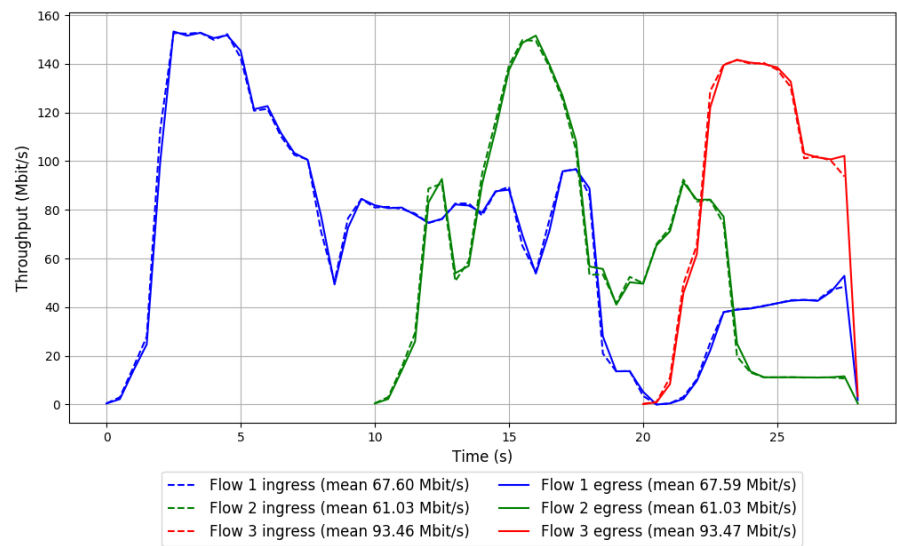
-- Flow 3:

Average throughput: 93.47 Mbit/s

95th percentile per-packet one-way delay: 61.360 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-10-12 20:46:00

End at: 2017-10-12 20:46:30

Below is generated by plot.py at 2017-10-13 00:04:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 148.83 Mbit/s

95th percentile per-packet one-way delay: 63.508 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.98 Mbit/s

95th percentile per-packet one-way delay: 63.568 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 70.74 Mbit/s

95th percentile per-packet one-way delay: 63.492 ms

Loss rate: 0.00%

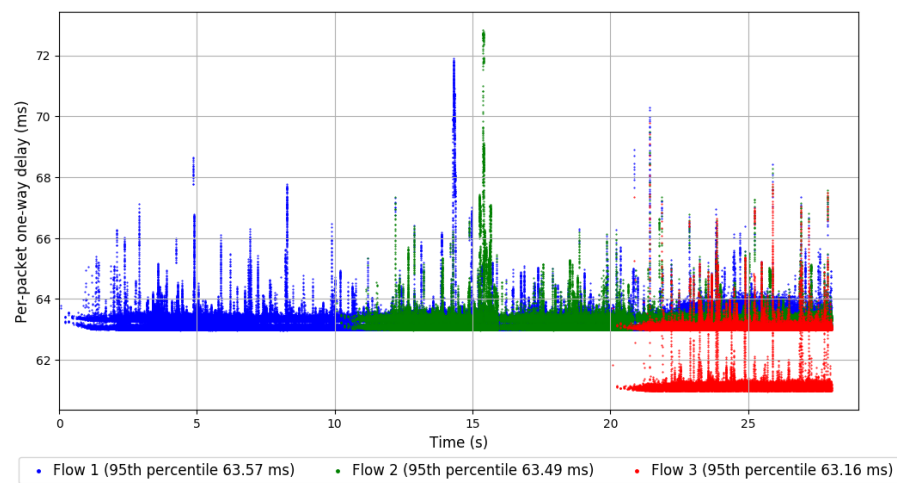
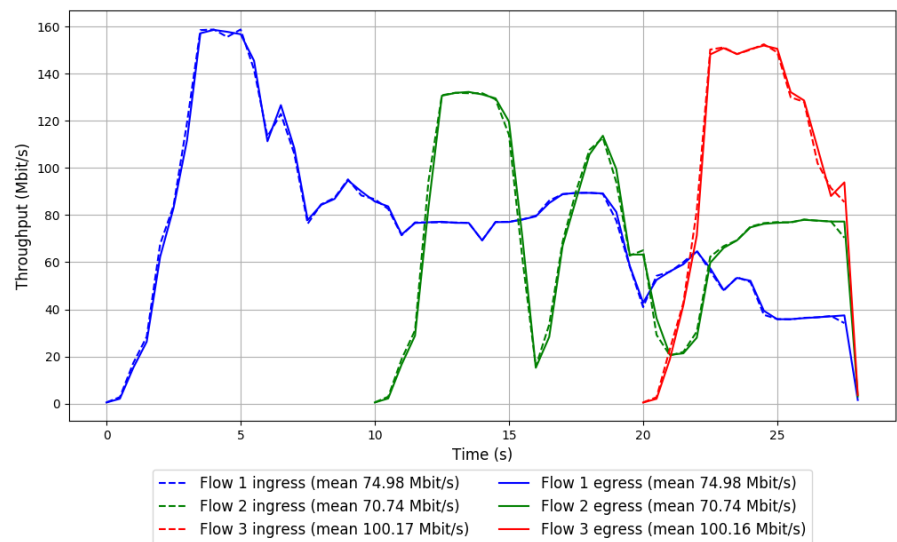
-- Flow 3:

Average throughput: 100.16 Mbit/s

95th percentile per-packet one-way delay: 63.160 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-10-12 20:58:38

End at: 2017-10-12 20:59:08

Below is generated by plot.py at 2017-10-13 00:04:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 145.21 Mbit/s

95th percentile per-packet one-way delay: 63.413 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 81.61 Mbit/s

95th percentile per-packet one-way delay: 63.235 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 76.38 Mbit/s

95th percentile per-packet one-way delay: 63.191 ms

Loss rate: 0.00%

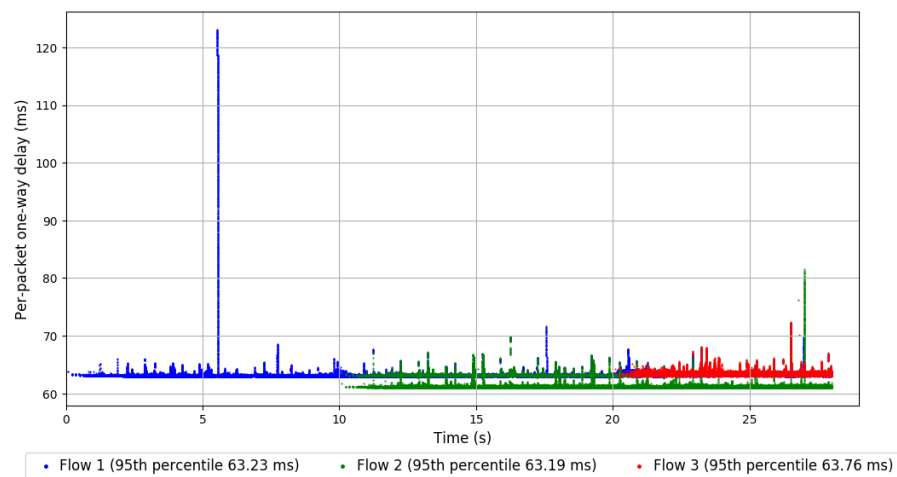
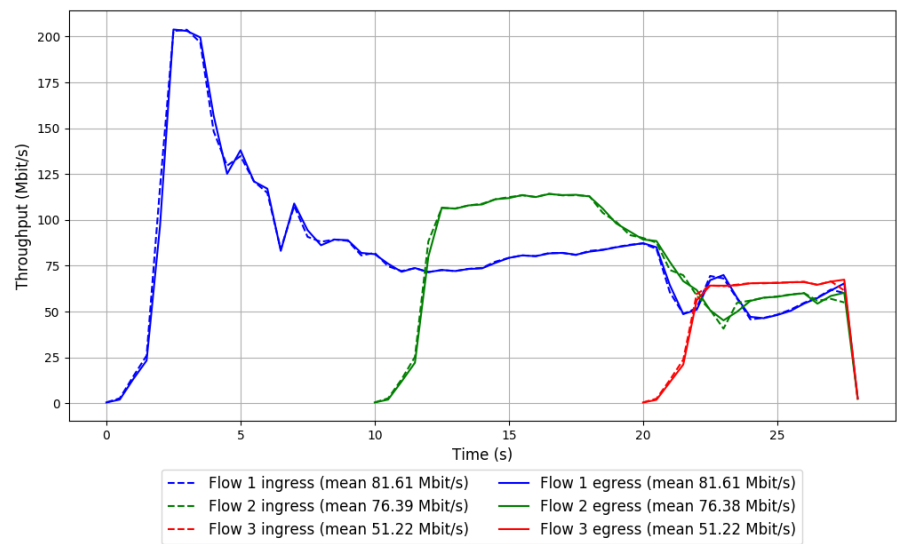
-- Flow 3:

Average throughput: 51.22 Mbit/s

95th percentile per-packet one-way delay: 63.755 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-10-12 21:11:20

End at: 2017-10-12 21:11:50

Below is generated by plot.py at 2017-10-13 00:05:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 155.46 Mbit/s

95th percentile per-packet one-way delay: 63.188 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 79.83 Mbit/s

95th percentile per-packet one-way delay: 63.178 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 82.50 Mbit/s

95th percentile per-packet one-way delay: 63.196 ms

Loss rate: 0.00%

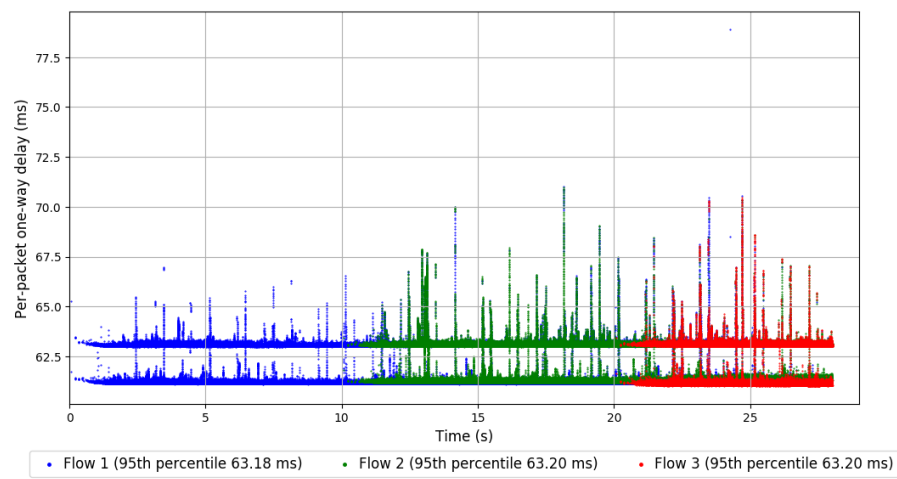
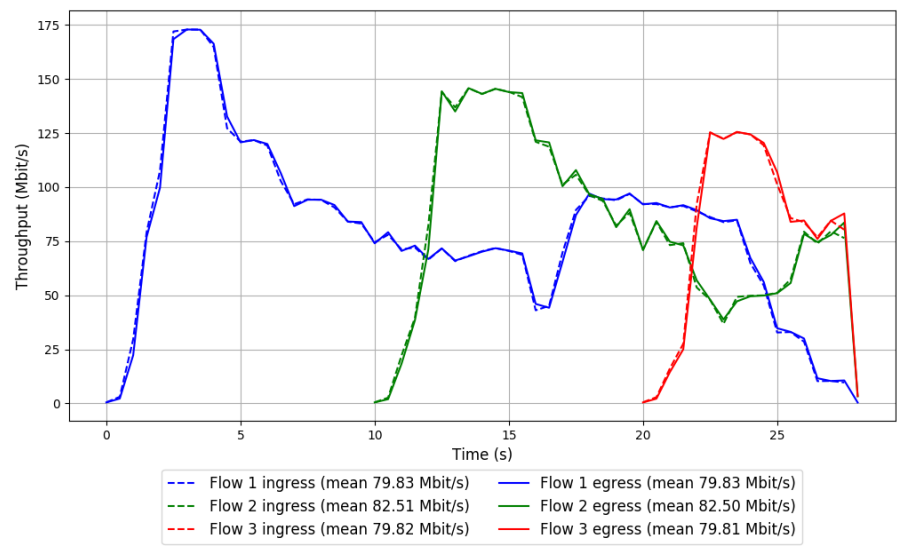
-- Flow 3:

Average throughput: 79.81 Mbit/s

95th percentile per-packet one-way delay: 63.205 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-10-12 21:23:52

End at: 2017-10-12 21:24:22

Below is generated by plot.py at 2017-10-13 00:05:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 146.87 Mbit/s

95th percentile per-packet one-way delay: 63.359 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 78.81 Mbit/s

95th percentile per-packet one-way delay: 63.394 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 75.05 Mbit/s

95th percentile per-packet one-way delay: 63.165 ms

Loss rate: 0.00%

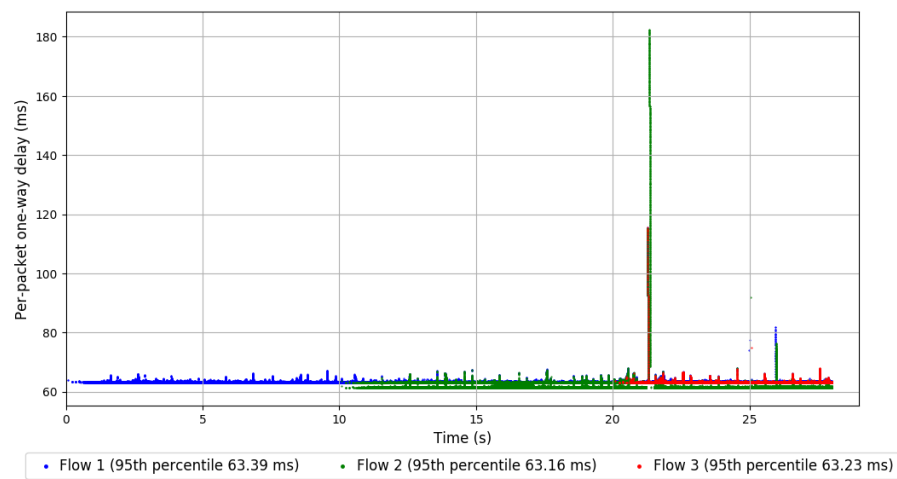
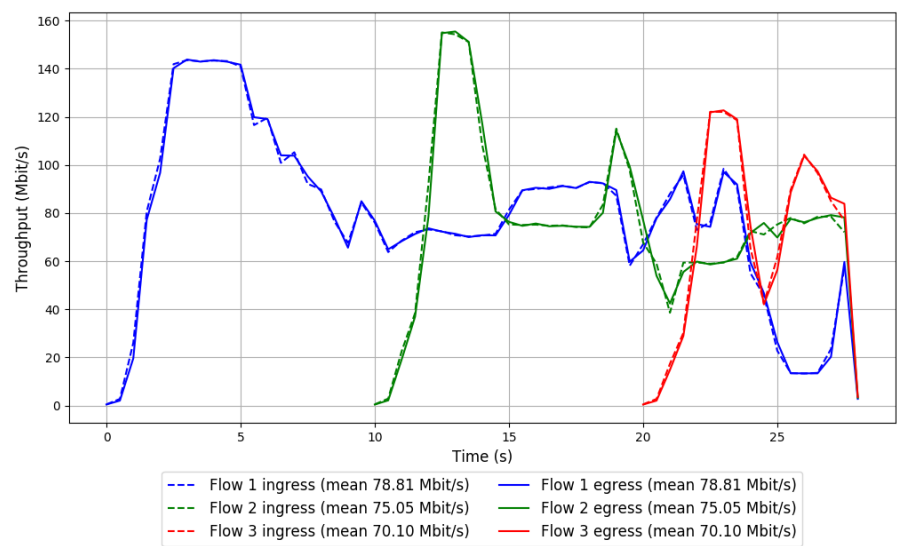
-- Flow 3:

Average throughput: 70.10 Mbit/s

95th percentile per-packet one-way delay: 63.230 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-10-12 21:36:27

End at: 2017-10-12 21:36:57

Below is generated by plot.py at 2017-10-13 00:05:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 147.42 Mbit/s

95th percentile per-packet one-way delay: 63.317 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 85.53 Mbit/s

95th percentile per-packet one-way delay: 63.152 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.30 Mbit/s

95th percentile per-packet one-way delay: 63.487 ms

Loss rate: 0.00%

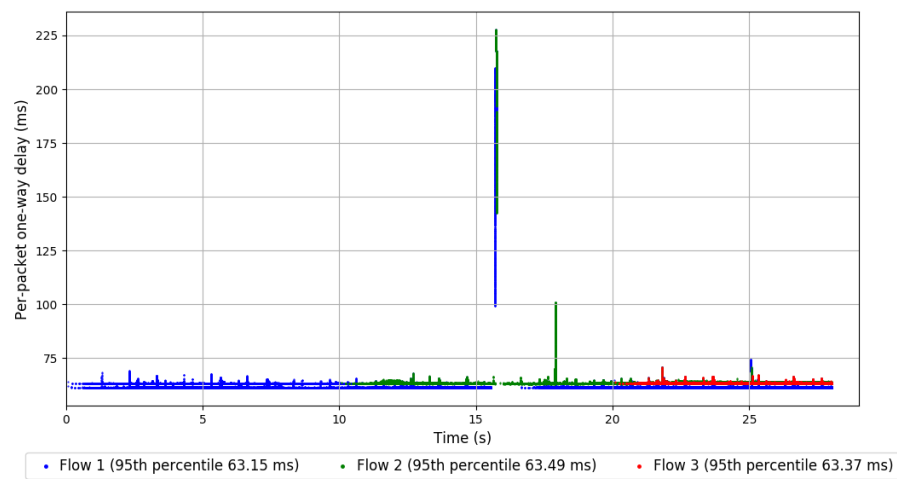
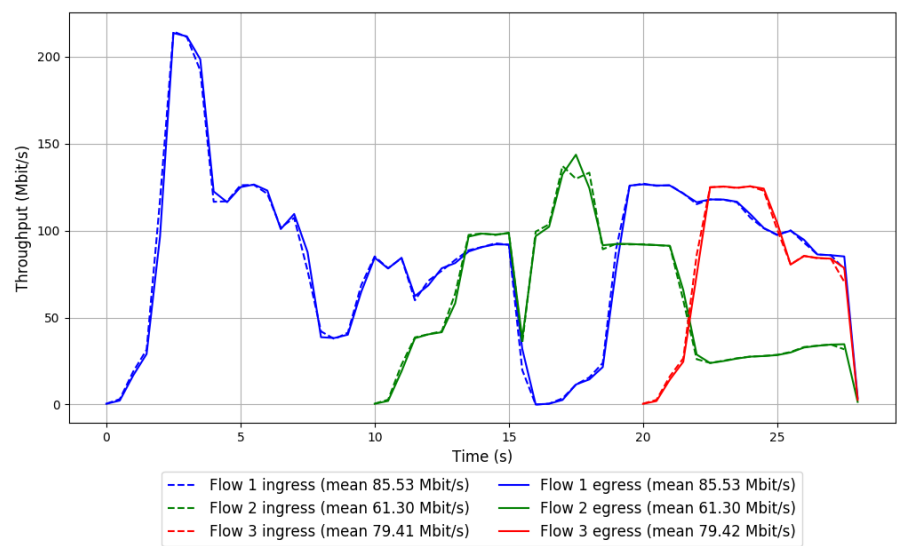
-- Flow 3:

Average throughput: 79.42 Mbit/s

95th percentile per-packet one-way delay: 63.372 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

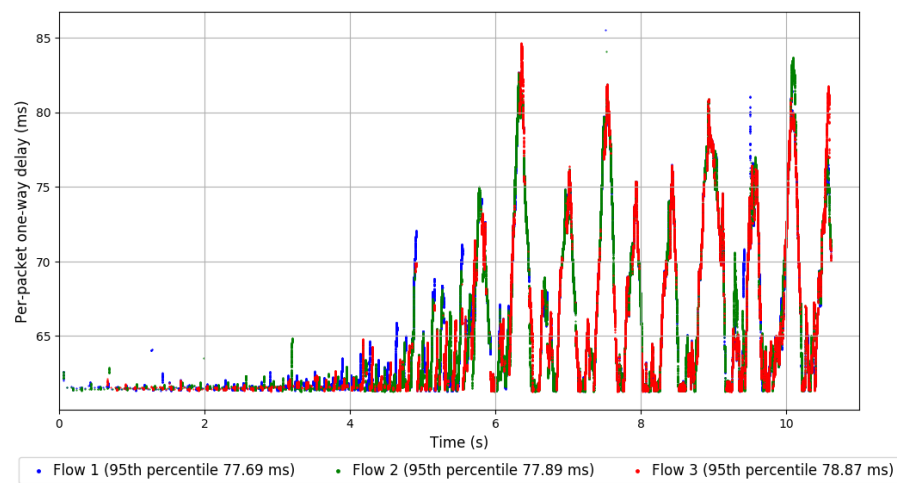
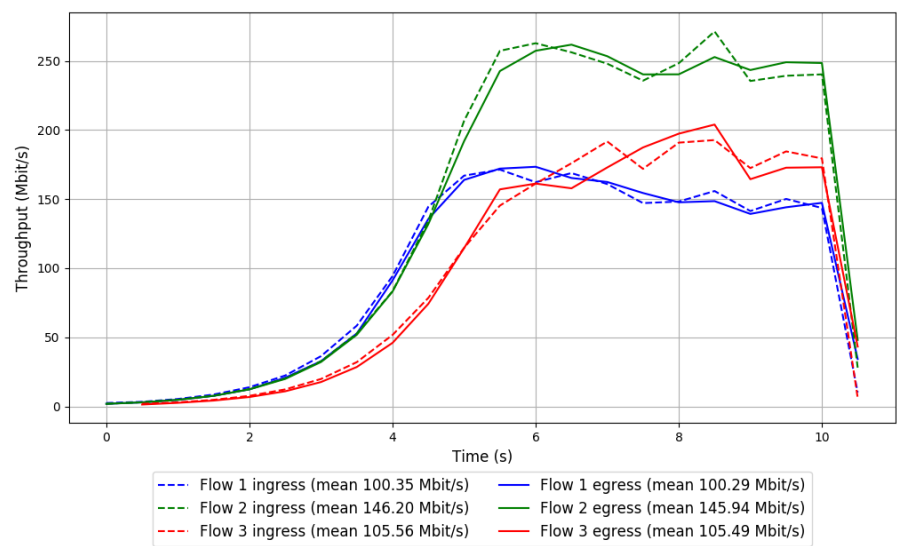


Run 1: Statistics of CalibratedKoho

Start at: 2017-10-12 19:42:38

End at: 2017-10-12 19:43:08

Run 1: Report of CalibratedKoho — Data Link

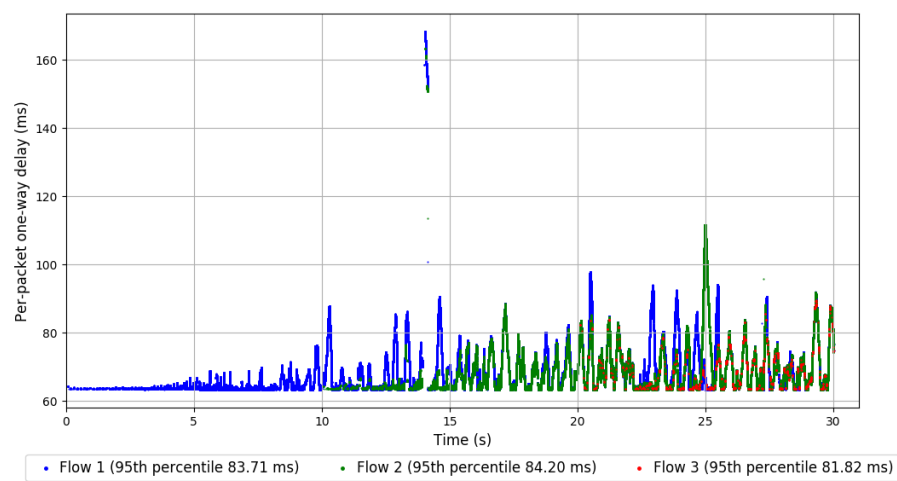
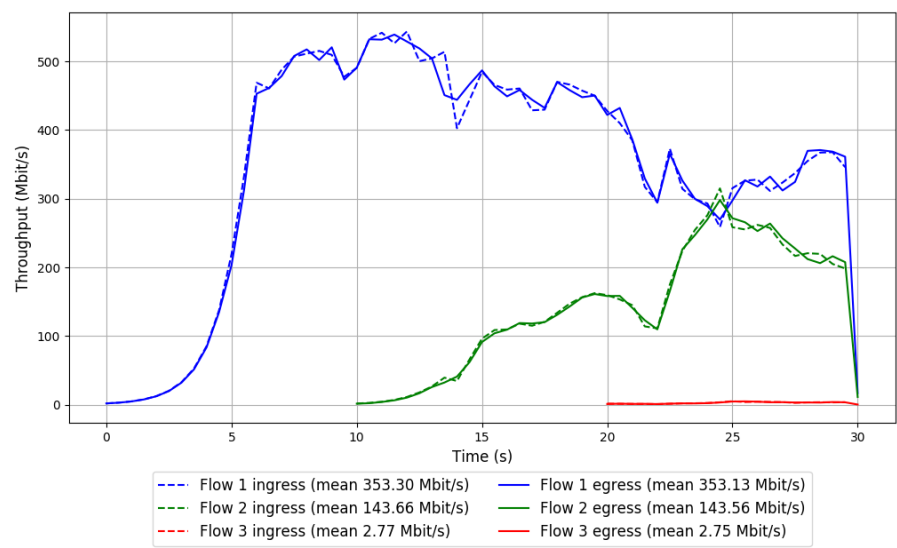


```
Run 2: Statistics of CalibratedKoho

Start at: 2017-10-12 19:55:01
End at: 2017-10-12 19:55:31

# Below is generated by plot.py at 2017-10-13 00:12:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 449.64 Mbit/s
95th percentile per-packet one-way delay: 83.840 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 353.13 Mbit/s
95th percentile per-packet one-way delay: 83.714 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 143.56 Mbit/s
95th percentile per-packet one-way delay: 84.196 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 2.75 Mbit/s
95th percentile per-packet one-way delay: 81.818 ms
Loss rate: 1.05%
```

Run 2: Report of CalibratedKoho — Data Link

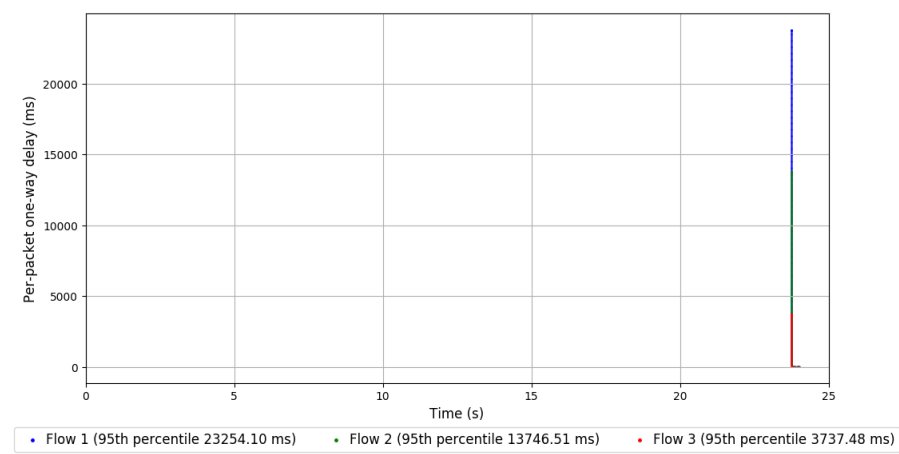
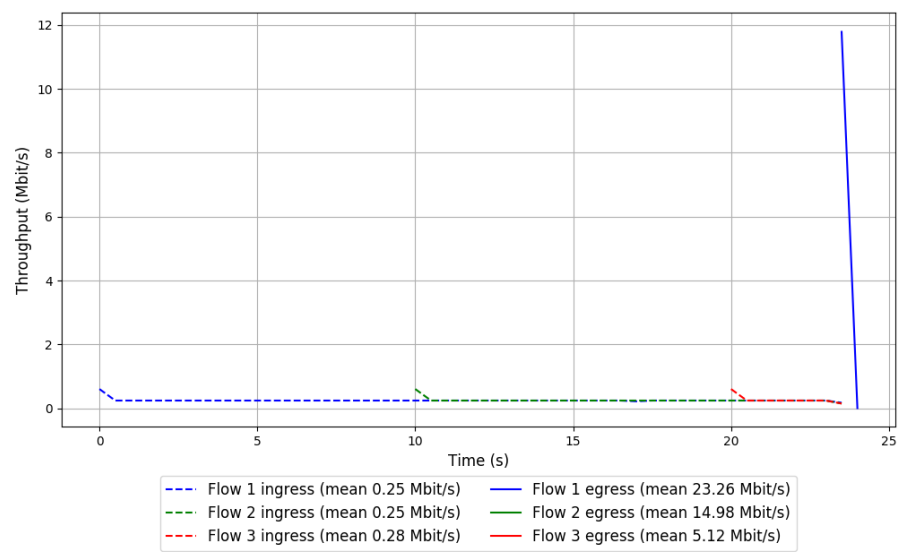


Run 3: Statistics of CalibratedKoho

Start at: 2017-10-12 20:07:36

End at: 2017-10-12 20:08:06

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: 2017-10-12 20:19:25

End at: 2017-10-12 20:19:55

Below is generated by plot.py at 2017-10-13 00:12:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 293.97 Mbit/s

95th percentile per-packet one-way delay: 76.806 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 3170.082 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 360.56 Mbit/s

95th percentile per-packet one-way delay: 76.817 ms

Loss rate: 0.07%

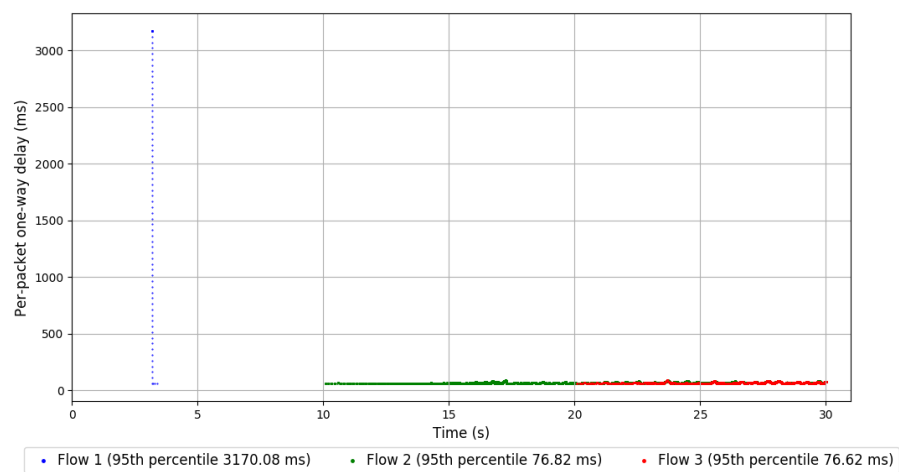
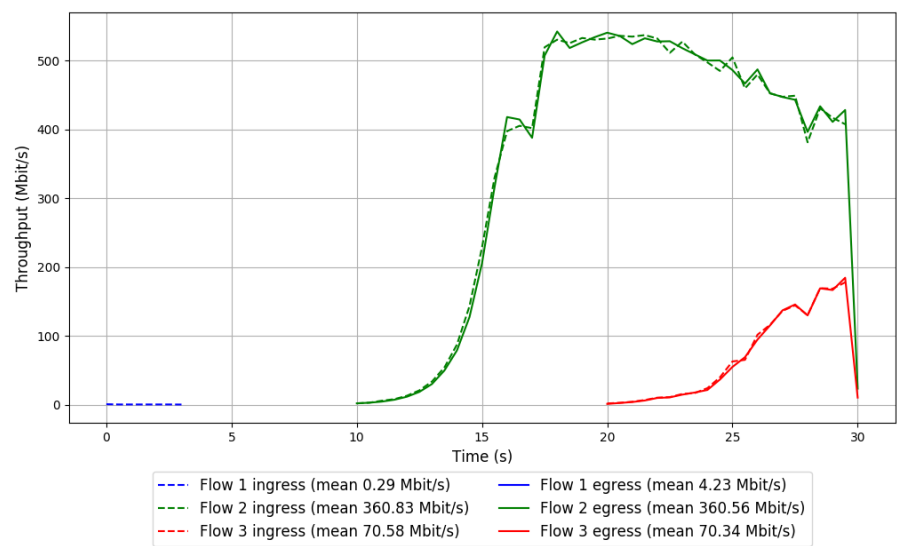
-- Flow 3:

Average throughput: 70.34 Mbit/s

95th percentile per-packet one-way delay: 76.620 ms

Loss rate: 0.32%

Run 4: Report of CalibratedKoho — Data Link

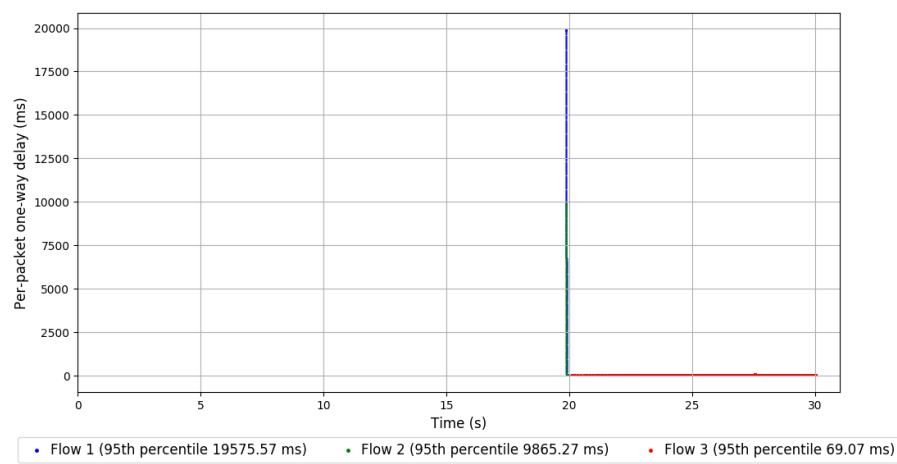
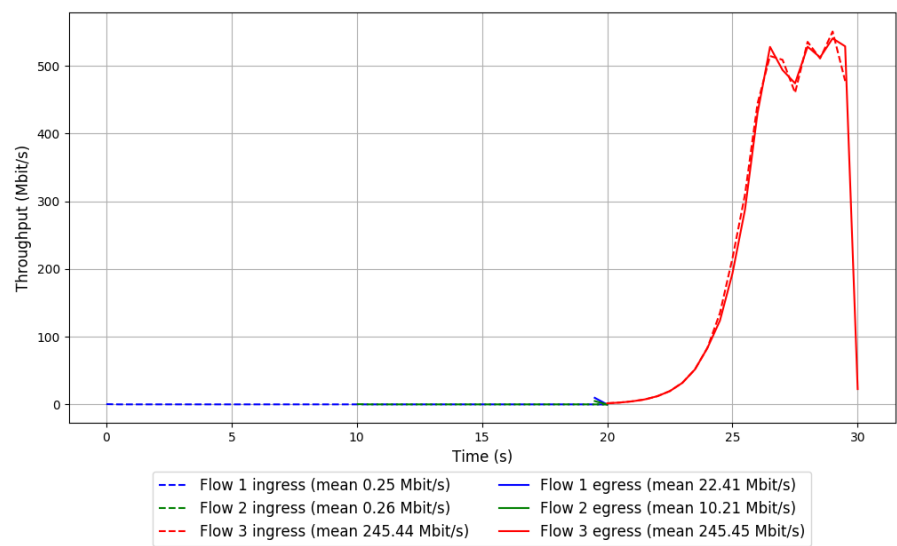


Run 5: Statistics of CalibratedKoho

Start at: 2017-10-12 20:31:43

End at: 2017-10-12 20:32:13

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: 2017-10-12 20:43:53

End at: 2017-10-12 20:44:23

Below is generated by plot.py at 2017-10-13 00:12:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 440.78 Mbit/s

95th percentile per-packet one-way delay: 87.126 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 322.96 Mbit/s

95th percentile per-packet one-way delay: 86.433 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 171.39 Mbit/s

95th percentile per-packet one-way delay: 90.592 ms

Loss rate: 0.13%

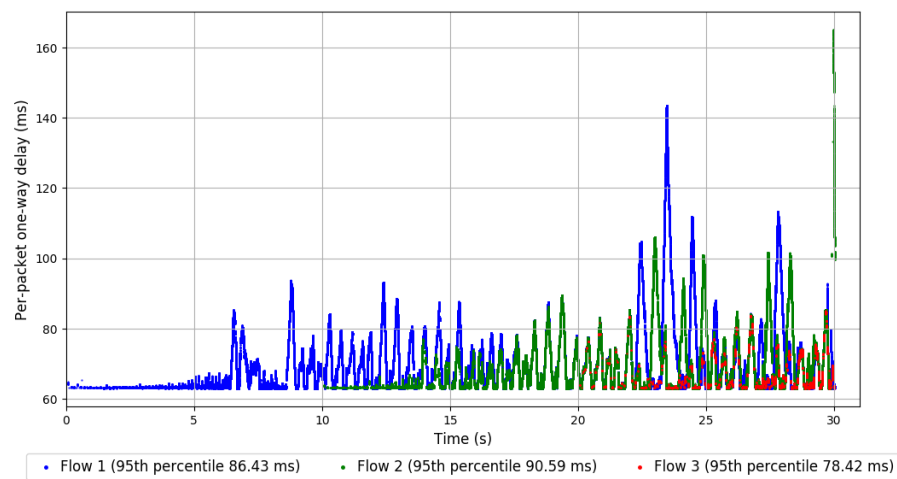
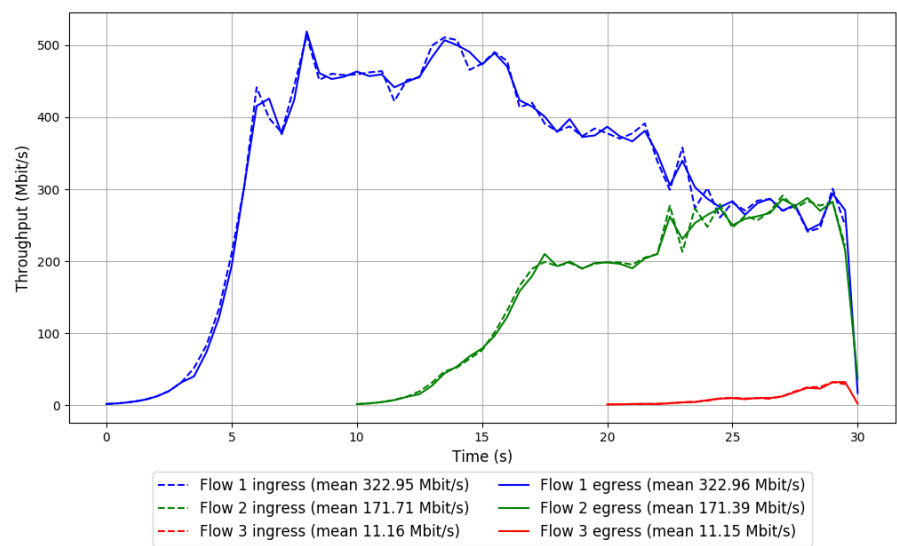
-- Flow 3:

Average throughput: 11.15 Mbit/s

95th percentile per-packet one-way delay: 78.423 ms

Loss rate: 0.10%

Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

Start at: 2017-10-12 20:56:26

End at: 2017-10-12 20:56:56

Below is generated by plot.py at 2017-10-13 00:12:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 453.25 Mbit/s

95th percentile per-packet one-way delay: 85.101 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 319.10 Mbit/s

95th percentile per-packet one-way delay: 84.733 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 194.95 Mbit/s

95th percentile per-packet one-way delay: 86.349 ms

Loss rate: 0.08%

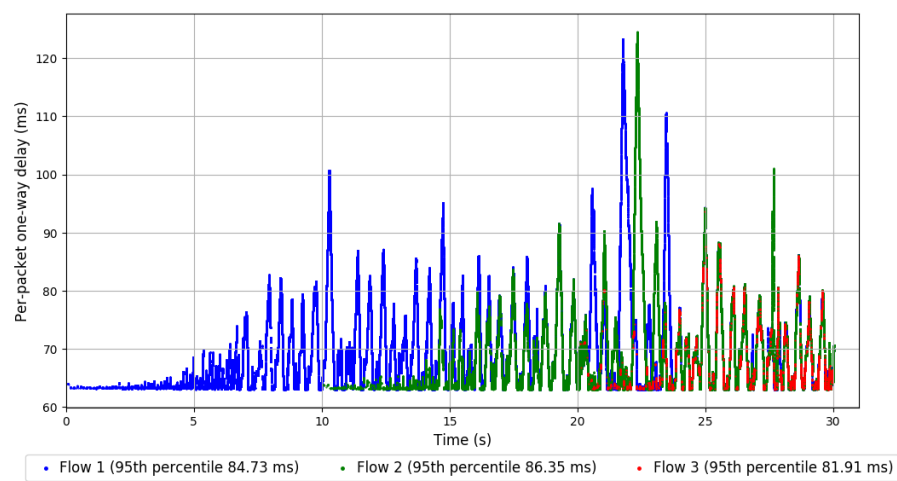
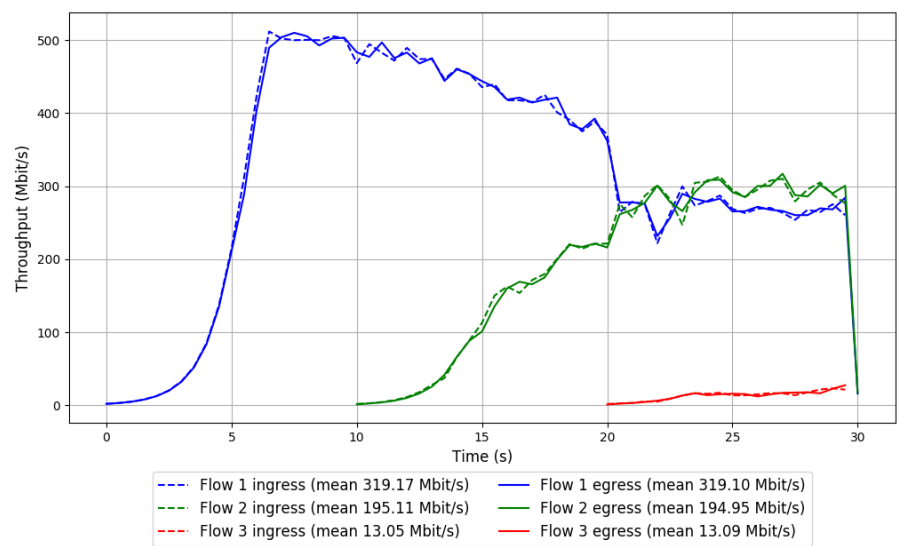
-- Flow 3:

Average throughput: 13.09 Mbit/s

95th percentile per-packet one-way delay: 81.913 ms

Loss rate: 0.18%

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: 2017-10-12 21:09:12

End at: 2017-10-12 21:09:42

Below is generated by plot.py at 2017-10-13 00:13:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 451.80 Mbit/s

95th percentile per-packet one-way delay: 83.090 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 366.40 Mbit/s

95th percentile per-packet one-way delay: 82.562 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 127.62 Mbit/s

95th percentile per-packet one-way delay: 84.578 ms

Loss rate: 0.04%

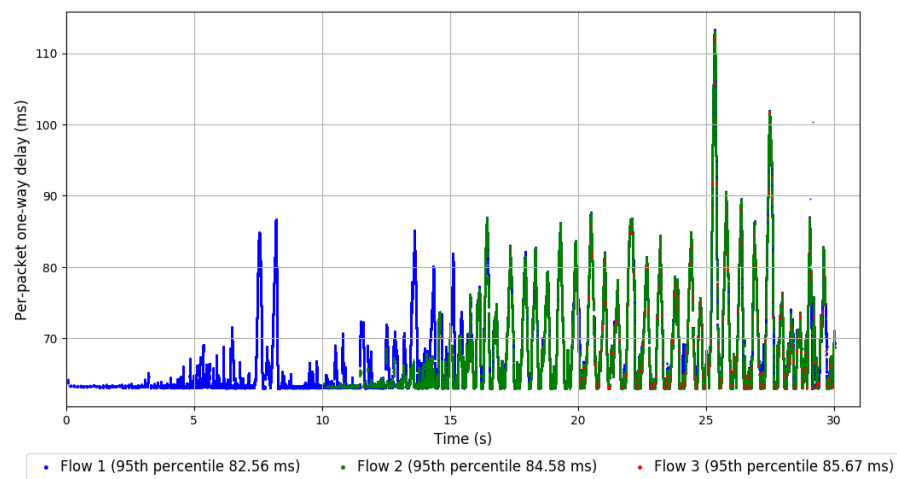
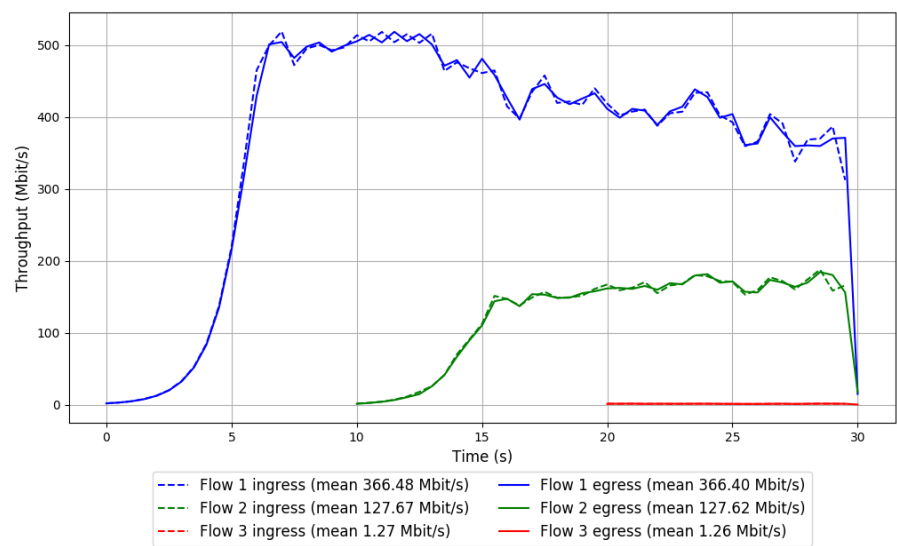
-- Flow 3:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 85.665 ms

Loss rate: 1.05%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: 2017-10-12 21:21:42

End at: 2017-10-12 21:22:12

Below is generated by plot.py at 2017-10-13 00:13:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 462.51 Mbit/s

95th percentile per-packet one-way delay: 84.402 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 329.46 Mbit/s

95th percentile per-packet one-way delay: 84.385 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 198.36 Mbit/s

95th percentile per-packet one-way delay: 84.449 ms

Loss rate: 0.00%

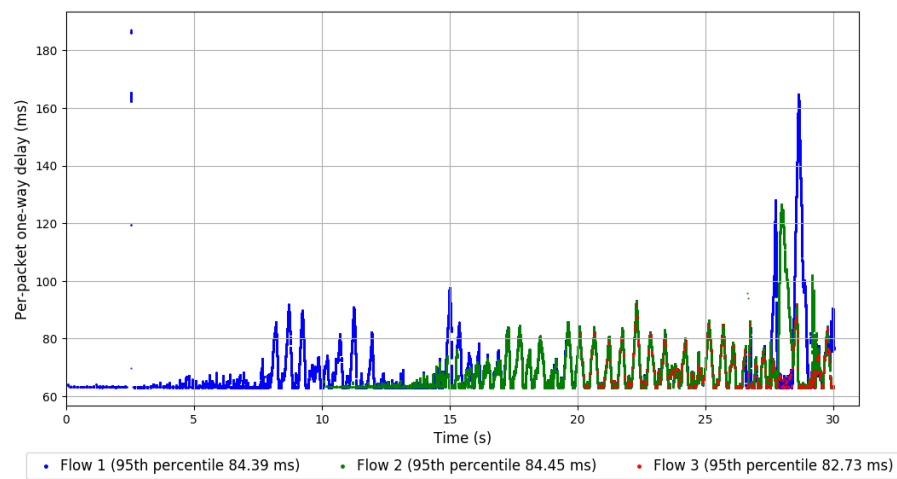
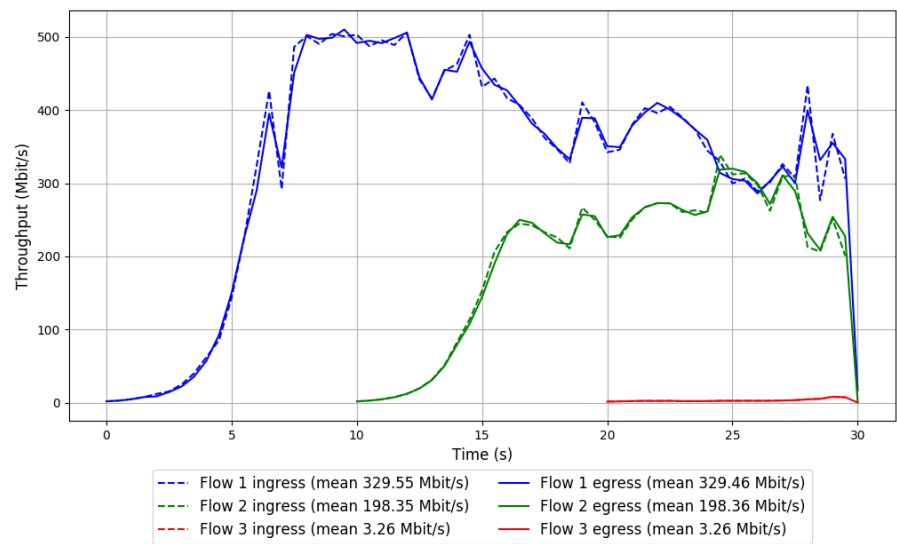
-- Flow 3:

Average throughput: 3.26 Mbit/s

95th percentile per-packet one-way delay: 82.733 ms

Loss rate: 0.22%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: 2017-10-12 21:34:18

End at: 2017-10-12 21:34:48

Below is generated by plot.py at 2017-10-13 00:13:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 461.87 Mbit/s

95th percentile per-packet one-way delay: 88.184 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 362.23 Mbit/s

95th percentile per-packet one-way delay: 88.018 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 141.12 Mbit/s

95th percentile per-packet one-way delay: 88.992 ms

Loss rate: 0.00%

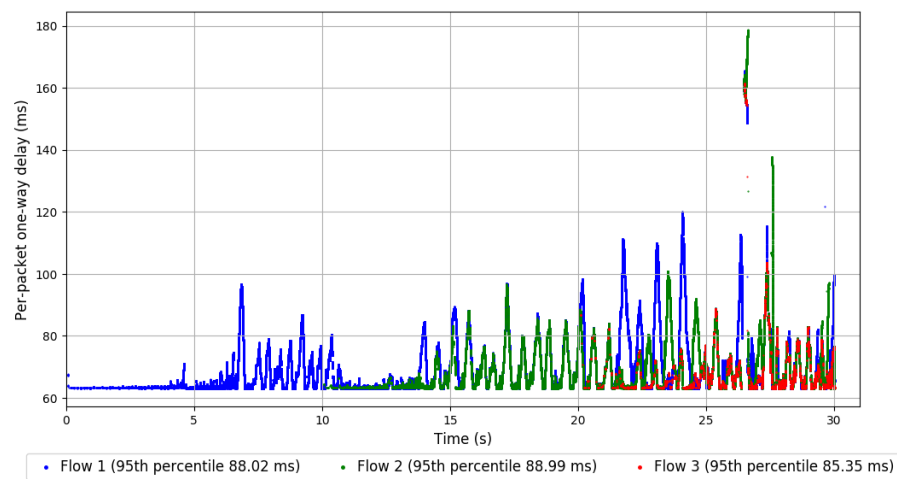
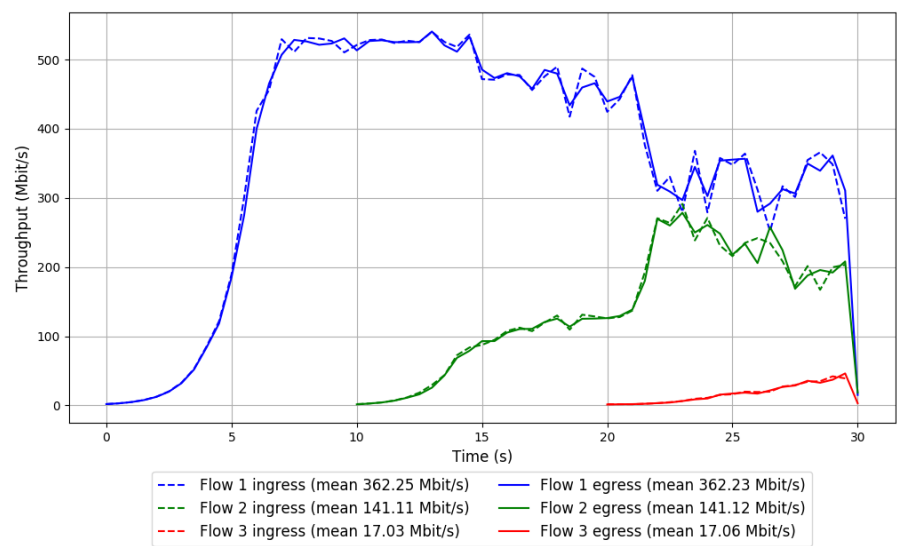
-- Flow 3:

Average throughput: 17.06 Mbit/s

95th percentile per-packet one-way delay: 85.349 ms

Loss rate: 0.06%

Run 10: Report of CalibratedKoho — Data Link

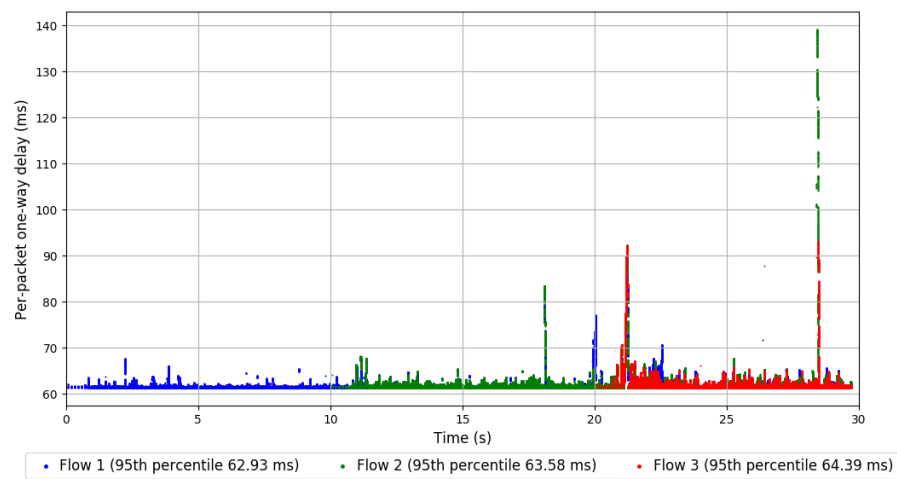
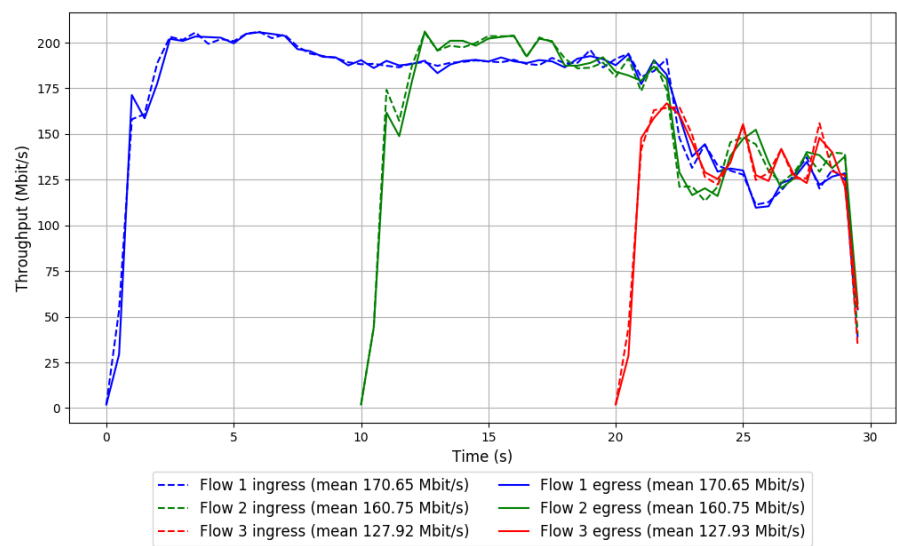


```
Run 1: Statistics of Indigo

Start at: 2017-10-12 19:40:29
End at: 2017-10-12 19:40:59

# Below is generated by plot.py at 2017-10-13 00:13:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 318.66 Mbit/s
95th percentile per-packet one-way delay: 63.370 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 170.65 Mbit/s
95th percentile per-packet one-way delay: 62.926 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 160.75 Mbit/s
95th percentile per-packet one-way delay: 63.576 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 127.93 Mbit/s
95th percentile per-packet one-way delay: 64.390 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

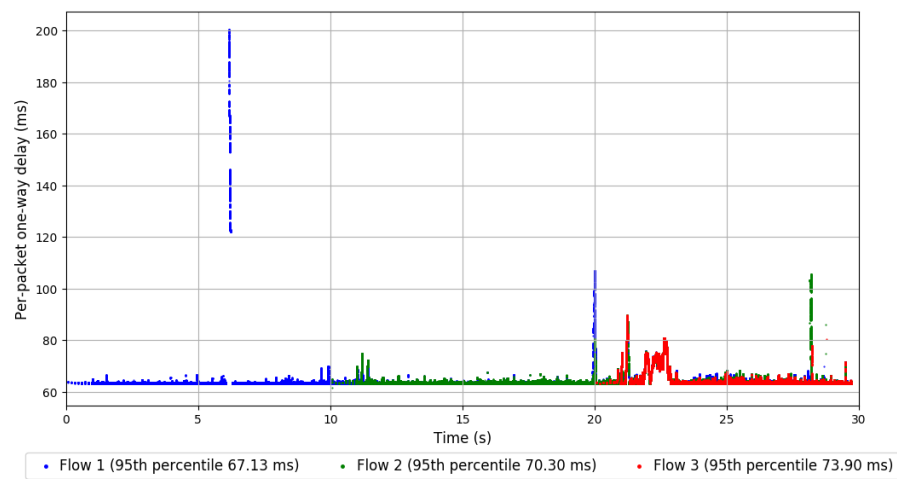
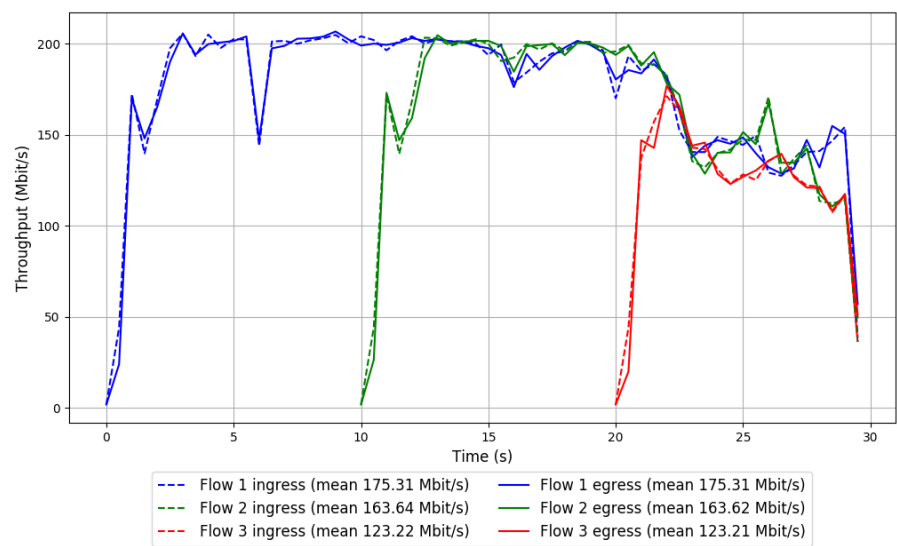


```
Run 2: Statistics of Indigo

Start at: 2017-10-12 19:52:38
End at: 2017-10-12 19:53:08

# Below is generated by plot.py at 2017-10-13 00:14:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 323.78 Mbit/s
95th percentile per-packet one-way delay: 70.372 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 175.31 Mbit/s
95th percentile per-packet one-way delay: 67.127 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 163.62 Mbit/s
95th percentile per-packet one-way delay: 70.298 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 123.21 Mbit/s
95th percentile per-packet one-way delay: 73.904 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-10-12 20:05:23

End at: 2017-10-12 20:05:53

Below is generated by plot.py at 2017-10-13 00:16:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 305.19 Mbit/s

95th percentile per-packet one-way delay: 65.254 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 168.16 Mbit/s

95th percentile per-packet one-way delay: 64.732 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 152.37 Mbit/s

95th percentile per-packet one-way delay: 65.922 ms

Loss rate: 0.00%

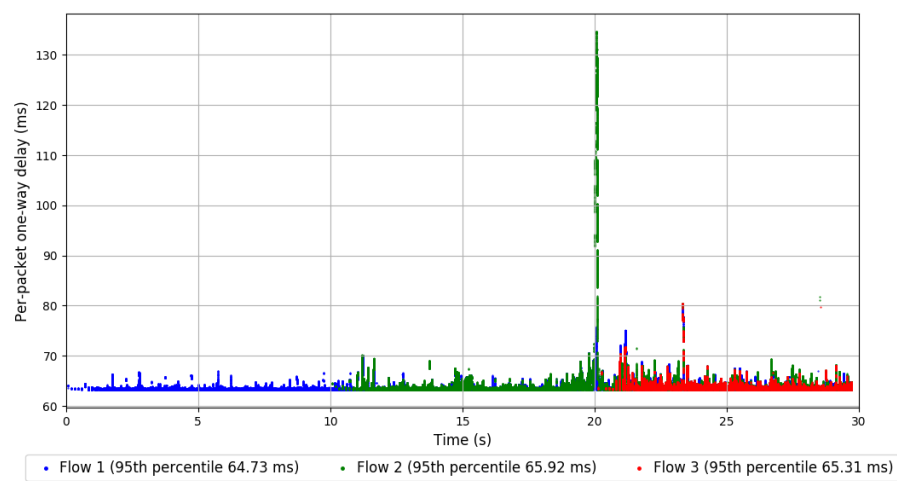
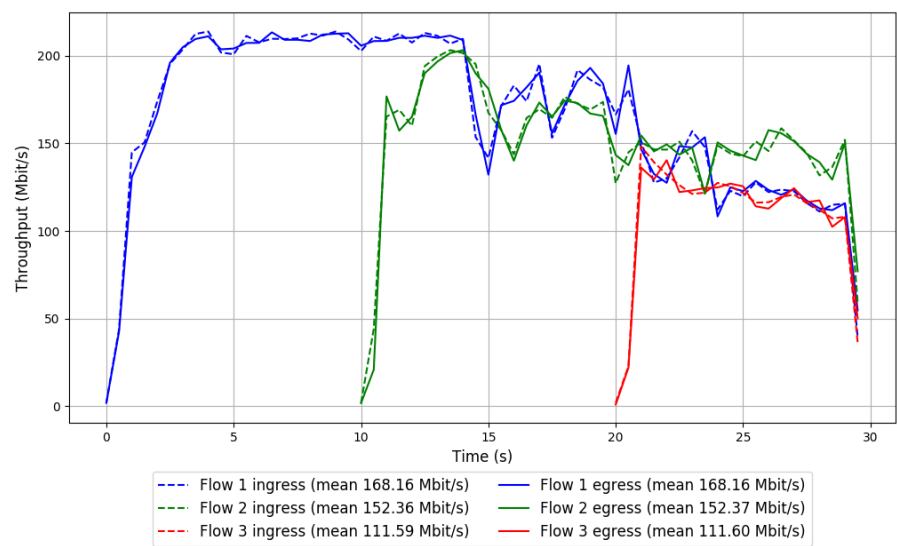
-- Flow 3:

Average throughput: 111.60 Mbit/s

95th percentile per-packet one-way delay: 65.312 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-10-12 20:17:17

End at: 2017-10-12 20:17:47

Below is generated by plot.py at 2017-10-13 00:17:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 309.63 Mbit/s

95th percentile per-packet one-way delay: 63.391 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 175.58 Mbit/s

95th percentile per-packet one-way delay: 63.399 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 151.70 Mbit/s

95th percentile per-packet one-way delay: 63.441 ms

Loss rate: 0.00%

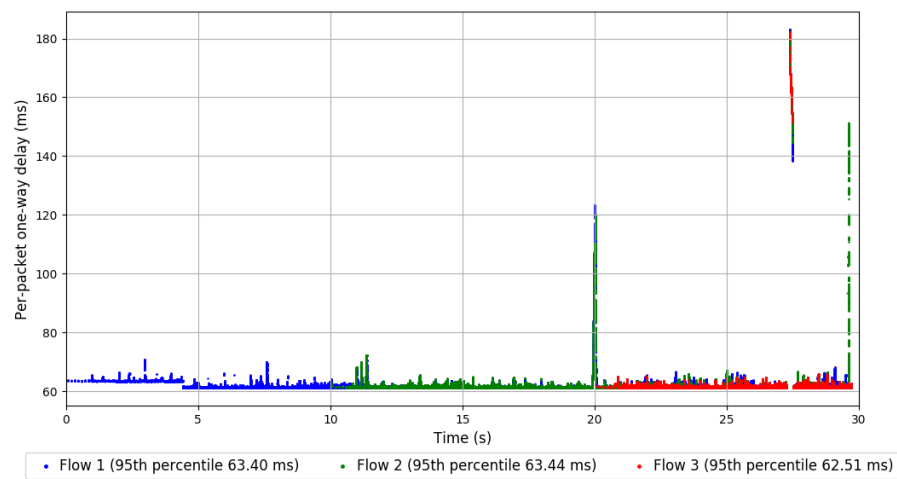
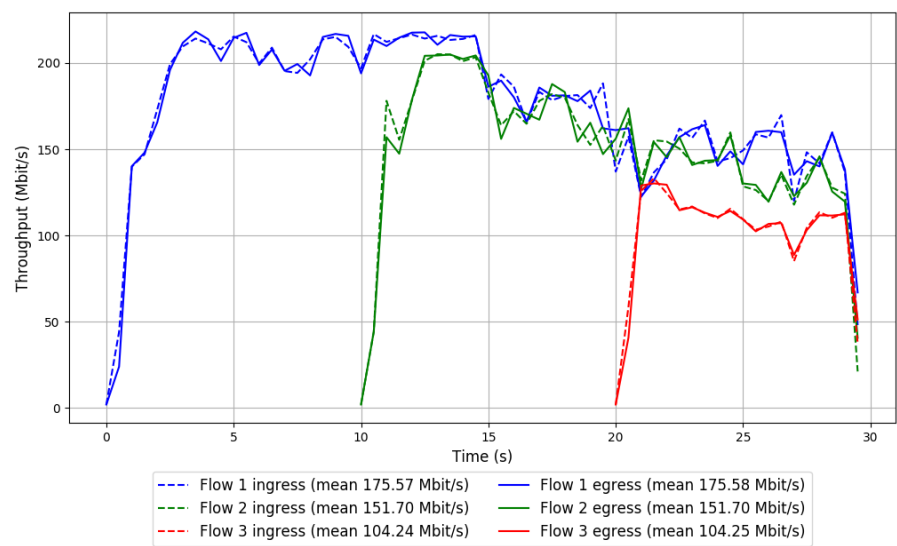
-- Flow 3:

Average throughput: 104.25 Mbit/s

95th percentile per-packet one-way delay: 62.513 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-10-12 20:29:32

End at: 2017-10-12 20:30:02

Below is generated by plot.py at 2017-10-13 00:17:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 292.93 Mbit/s

95th percentile per-packet one-way delay: 62.926 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 161.15 Mbit/s

95th percentile per-packet one-way delay: 62.650 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 147.74 Mbit/s

95th percentile per-packet one-way delay: 63.608 ms

Loss rate: 0.00%

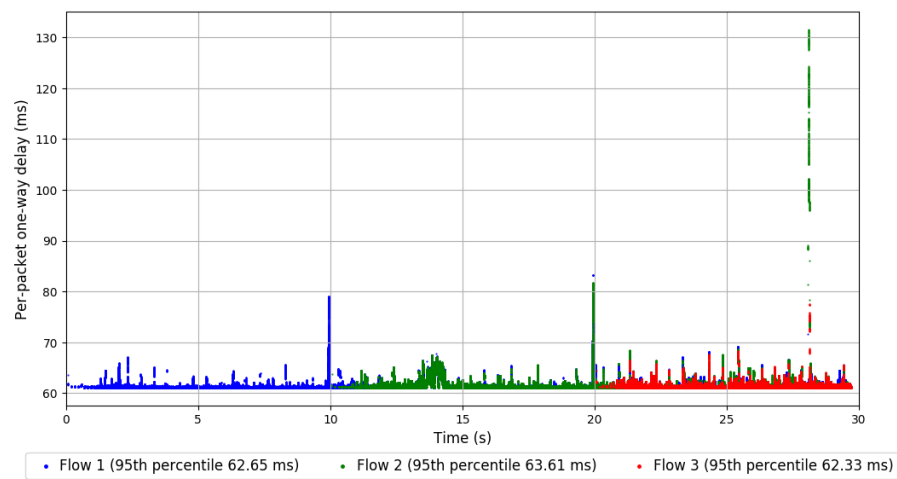
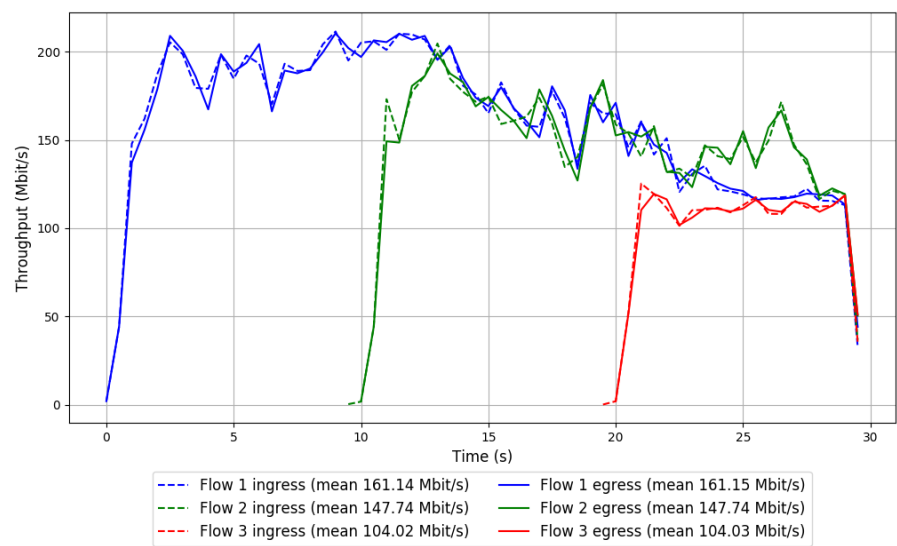
-- Flow 3:

Average throughput: 104.03 Mbit/s

95th percentile per-packet one-way delay: 62.326 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-10-12 20:41:37

End at: 2017-10-12 20:42:07

Below is generated by plot.py at 2017-10-13 00:18:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 315.13 Mbit/s

95th percentile per-packet one-way delay: 64.396 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 172.40 Mbit/s

95th percentile per-packet one-way delay: 64.116 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 160.50 Mbit/s

95th percentile per-packet one-way delay: 64.842 ms

Loss rate: 0.00%

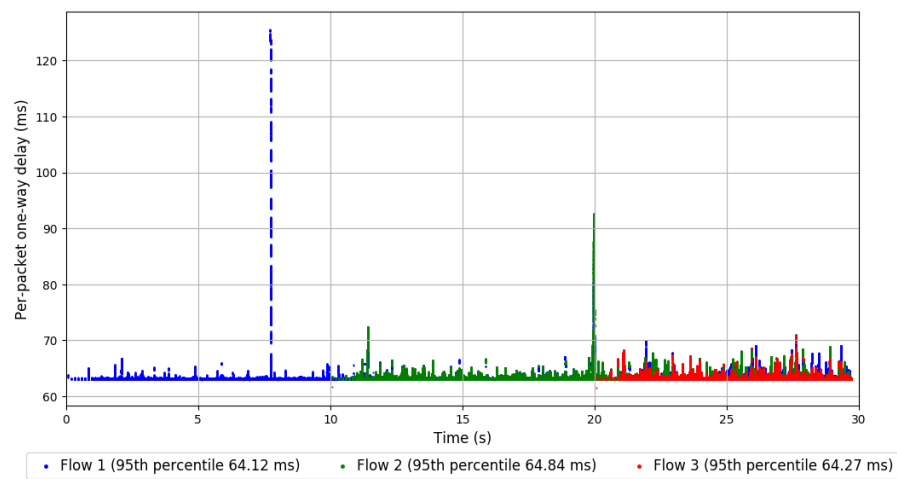
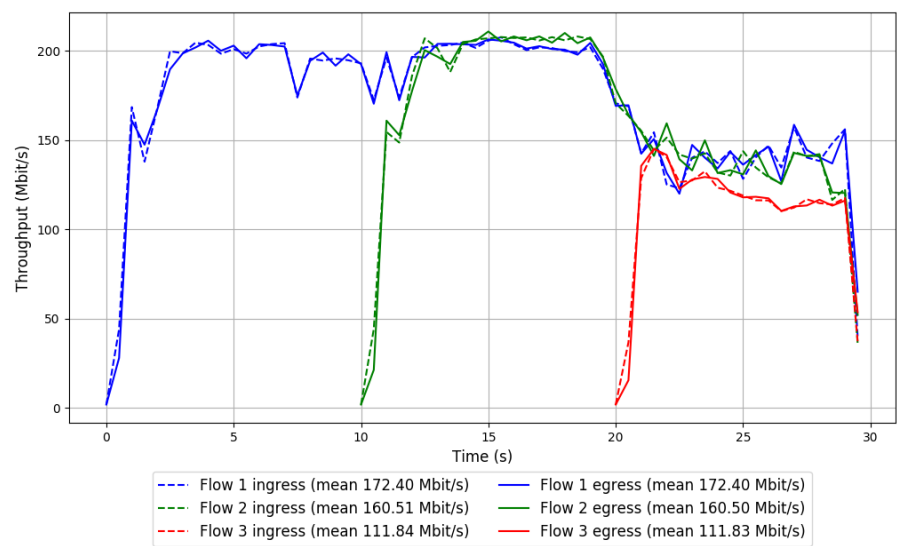
-- Flow 3:

Average throughput: 111.83 Mbit/s

95th percentile per-packet one-way delay: 64.267 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-10-12 20:54:17

End at: 2017-10-12 20:54:47

Below is generated by plot.py at 2017-10-13 00:18:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 327.90 Mbit/s

95th percentile per-packet one-way delay: 65.642 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 177.13 Mbit/s

95th percentile per-packet one-way delay: 65.122 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 165.88 Mbit/s

95th percentile per-packet one-way delay: 65.770 ms

Loss rate: 0.00%

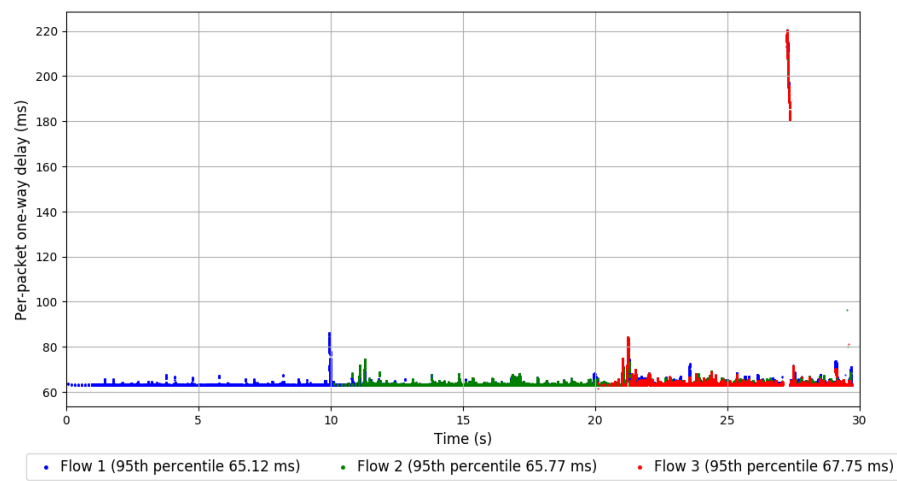
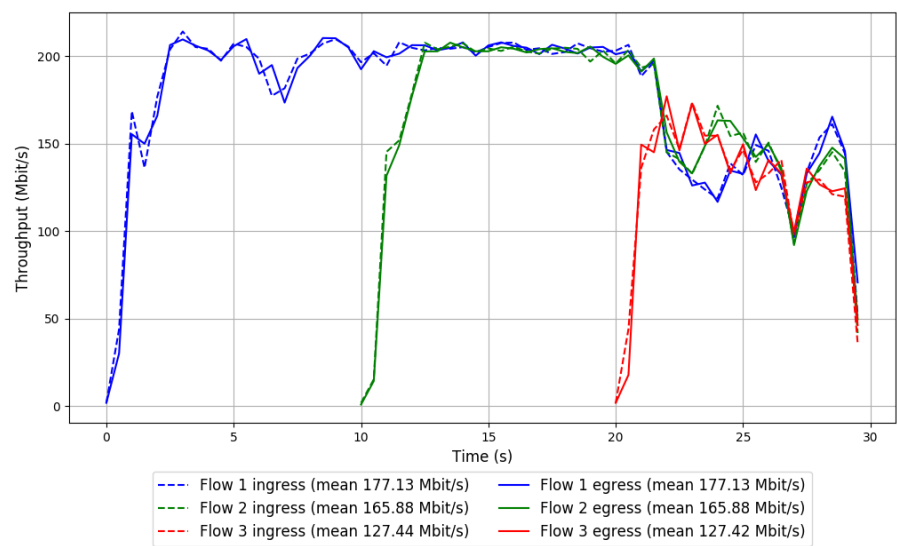
-- Flow 3:

Average throughput: 127.42 Mbit/s

95th percentile per-packet one-way delay: 67.753 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-10-12 21:06:55

End at: 2017-10-12 21:07:25

Below is generated by plot.py at 2017-10-13 00:18:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 298.31 Mbit/s

95th percentile per-packet one-way delay: 64.540 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 162.55 Mbit/s

95th percentile per-packet one-way delay: 64.424 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 152.35 Mbit/s

95th percentile per-packet one-way delay: 64.887 ms

Loss rate: 0.00%

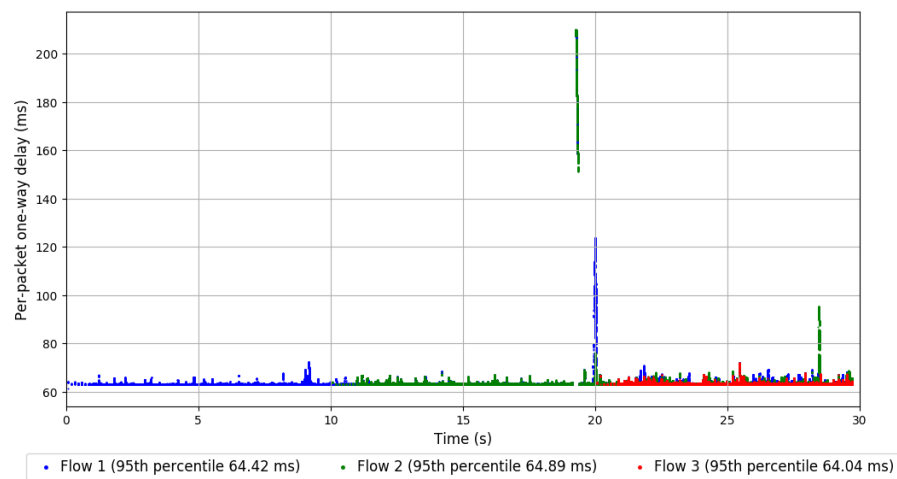
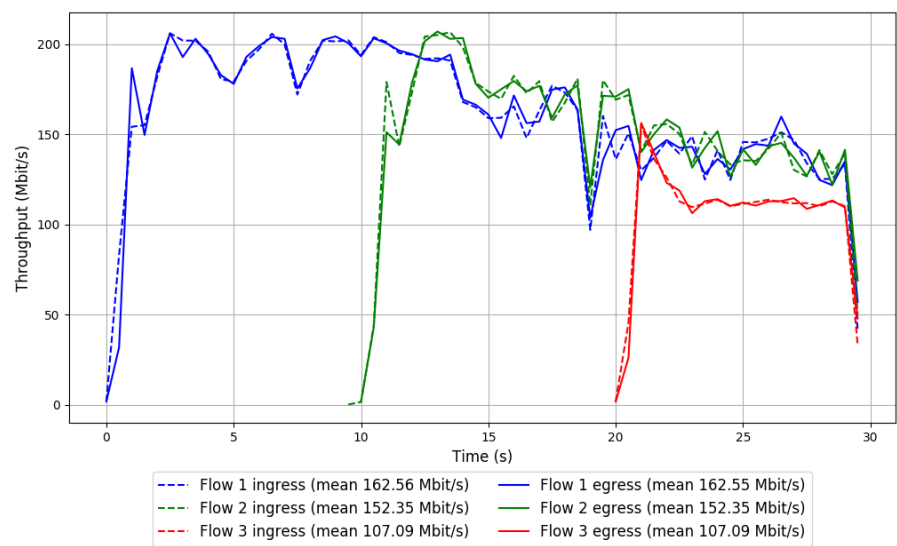
-- Flow 3:

Average throughput: 107.09 Mbit/s

95th percentile per-packet one-way delay: 64.038 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-10-12 21:19:29

End at: 2017-10-12 21:19:59

Below is generated by plot.py at 2017-10-13 00:18:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.69 Mbit/s

95th percentile per-packet one-way delay: 64.418 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 173.70 Mbit/s

95th percentile per-packet one-way delay: 63.995 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 163.67 Mbit/s

95th percentile per-packet one-way delay: 64.998 ms

Loss rate: 0.00%

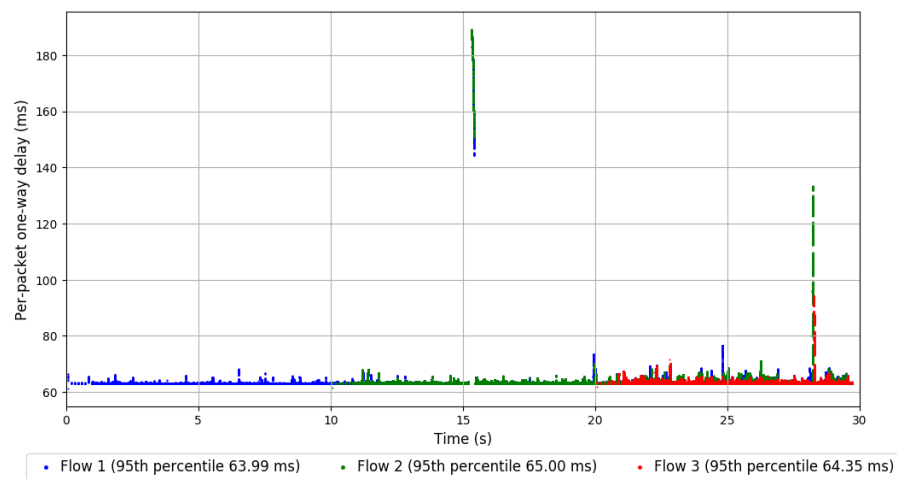
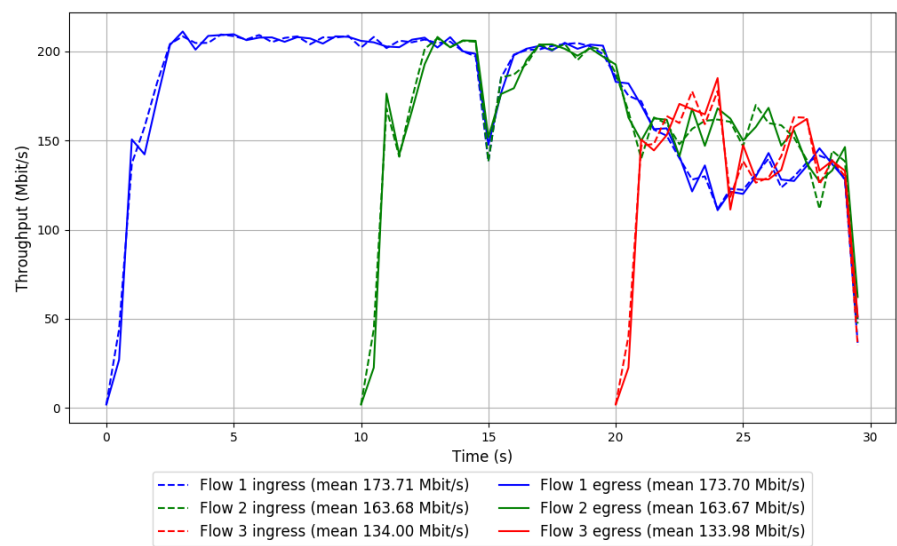
-- Flow 3:

Average throughput: 133.98 Mbit/s

95th percentile per-packet one-way delay: 64.353 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-10-12 21:32:04

End at: 2017-10-12 21:32:34

Below is generated by plot.py at 2017-10-13 00:18:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 295.69 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 166.43 Mbit/s

95th percentile per-packet one-way delay: 63.794 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 144.93 Mbit/s

95th percentile per-packet one-way delay: 63.938 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 102.31 Mbit/s

95th percentile per-packet one-way delay: 63.859 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

