

Pantheon Report

Generated at 2017-09-22 12:59:29 (UTC).

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

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.

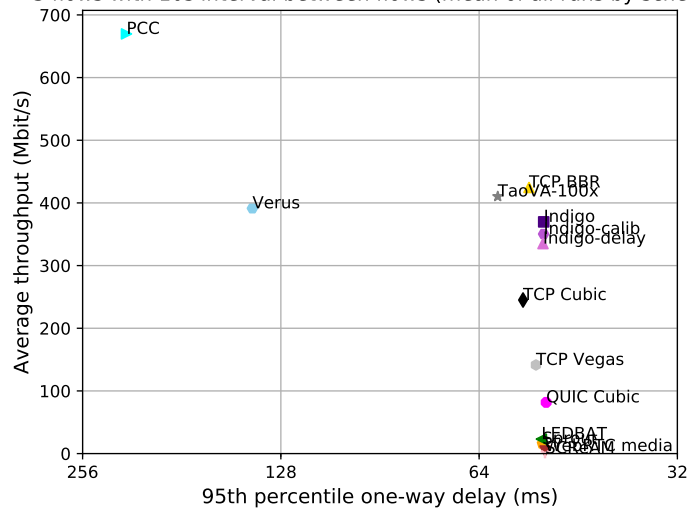
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

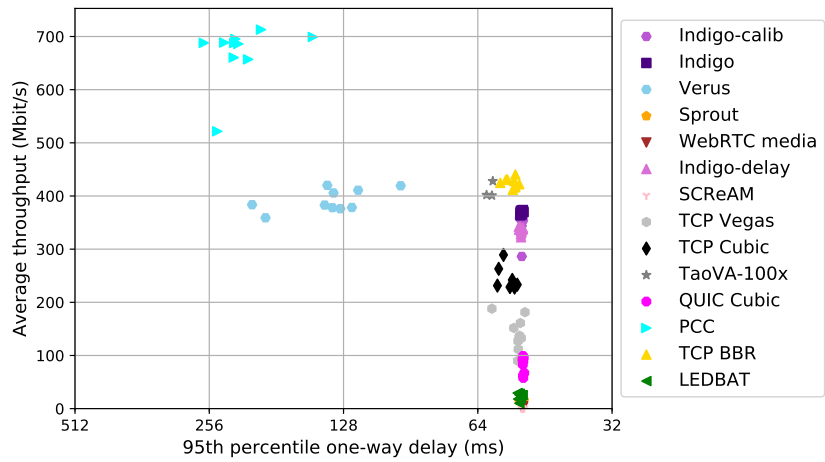
Git summary:

```
branch: indigos @ 46c7c812d4acb71eea4f5fb0b03b3657cea3062f
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 London Ethernet to GCE Iowa Ethernet, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE London Ethernet to GCE Iowa 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	9	215.17	213.15	203.16	53.19	54.18	54.22	0.37	0.54	1.05
TCP Cubic	7	143.54	103.46	99.53	55.16	53.96	54.25	0.29	0.55	0.97
LEDBAT	10	11.65	13.70	7.33	51.51	51.36	50.99	0.73	1.00	2.00
PCC	10	520.33	195.17	61.00	231.50	137.55	129.68	8.91	3.17	4.67
QUIC Cubic	9	44.50	38.44	35.74	50.47	50.50	50.64	0.51	0.78	0.88
SCReAM	10	0.22	0.22	0.22	50.69	50.67	50.75	0.27	0.48	1.04
WebRTC media	10	2.18	1.37	0.52	50.74	50.68	50.77	0.46	0.59	1.70
Sprout	10	7.93	7.83	7.60	51.34	51.32	51.31	0.49	0.51	0.99
TaoVA-100x	3	221.78	211.50	189.31	59.23	57.23	60.61	0.27	0.67	1.38
TCP Vegas	10	63.81	85.05	64.22	51.67	52.49	52.55	0.28	0.46	1.26
Verus	10	227.36	172.77	153.01	125.89	135.75	182.77	1.13	1.17	5.23
Indigo	10	188.84	186.52	176.01	50.94	51.33	50.81	0.35	0.54	1.17
Indigo-calib	10	174.07	181.02	173.34	50.97	51.37	50.83	0.31	0.43	1.10
Indigo-delay	10	173.79	168.47	153.02	51.13	51.46	50.78	0.35	0.54	1.19

Run 1: Statistics of TCP BBR

Start at: 2017-09-22 07:25:50

End at: 2017-09-22 07:26:21

Below is generated by plot.py at 2017-09-22 11:43:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 417.33 Mbit/s

95th percentile per-packet one-way delay: 52.706 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 207.46 Mbit/s

95th percentile per-packet one-way delay: 52.827 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 212.38 Mbit/s

95th percentile per-packet one-way delay: 52.155 ms

Loss rate: 0.55%

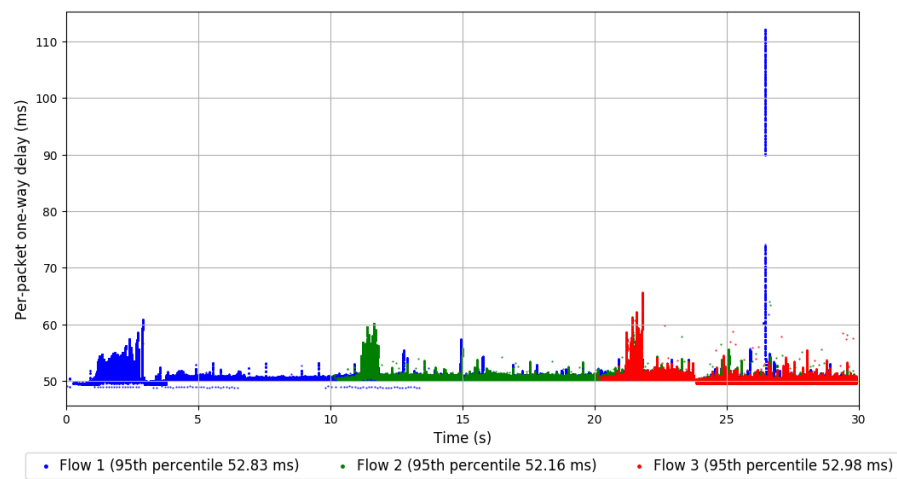
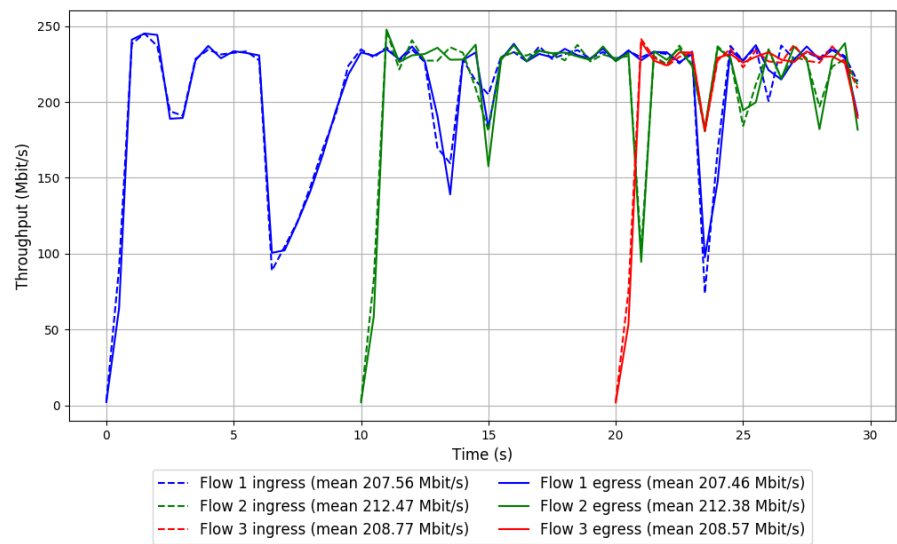
-- Flow 3:

Average throughput: 208.57 Mbit/s

95th percentile per-packet one-way delay: 52.977 ms

Loss rate: 1.12%

Run 1: Report of TCP BBR — Data Link

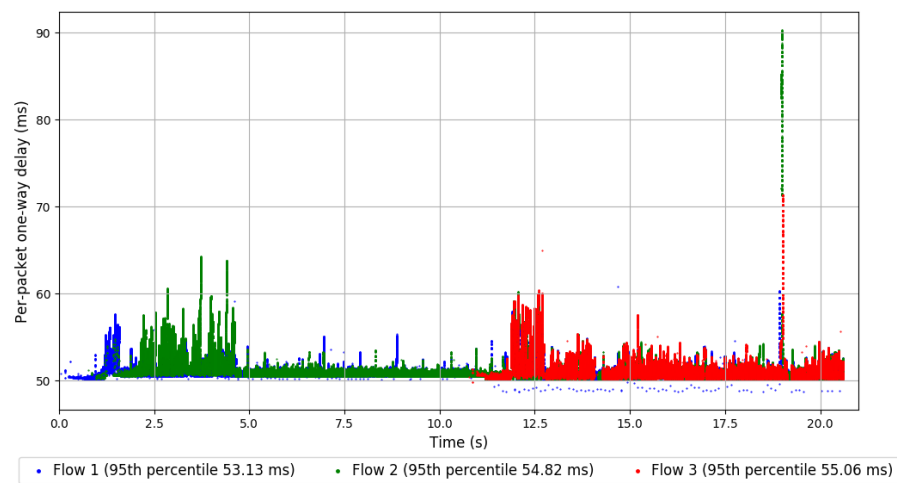
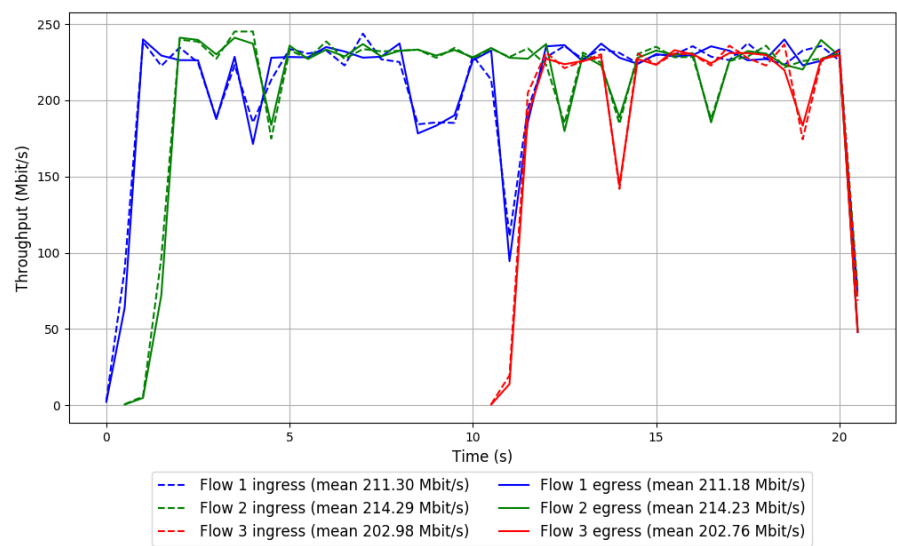


Run 2: Statistics of TCP BBR

Start at: 2017-09-22 07:38:24

End at: 2017-09-22 07:38:54

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-09-22 07:51:02

End at: 2017-09-22 07:51:32

Below is generated by plot.py at 2017-09-22 11:43:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 416.14 Mbit/s

95th percentile per-packet one-way delay: 52.949 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 208.40 Mbit/s

95th percentile per-packet one-way delay: 52.796 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 216.44 Mbit/s

95th percentile per-packet one-way delay: 52.414 ms

Loss rate: 0.56%

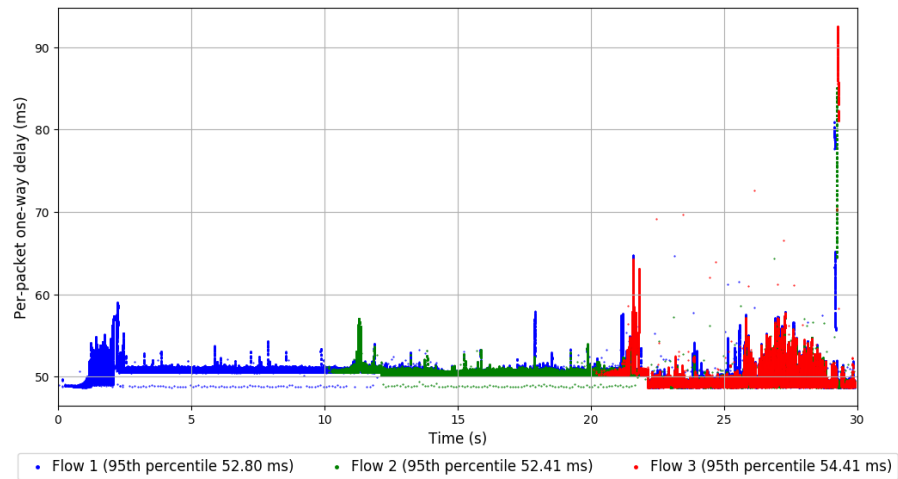
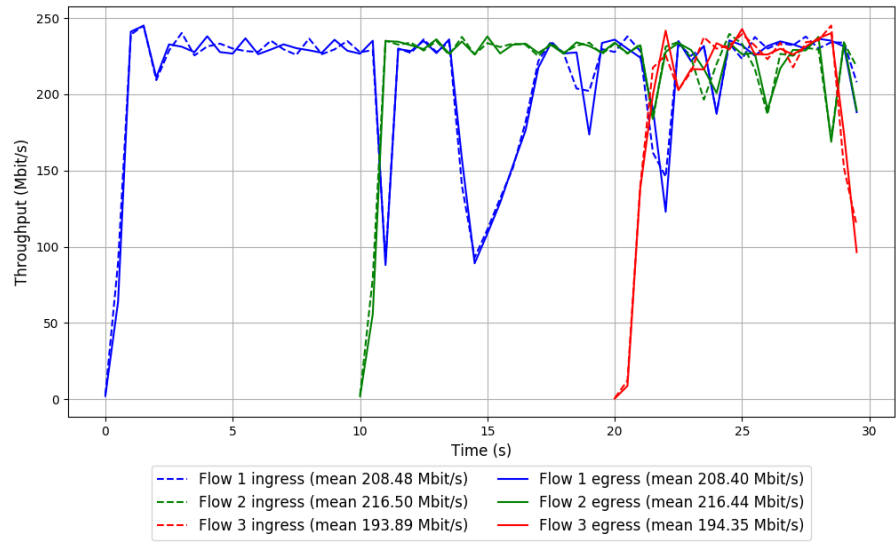
-- Flow 3:

Average throughput: 194.35 Mbit/s

95th percentile per-packet one-way delay: 54.409 ms

Loss rate: 0.56%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-09-22 08:04:01

End at: 2017-09-22 08:04:31

Below is generated by plot.py at 2017-09-22 11:43:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 424.71 Mbit/s

95th percentile per-packet one-way delay: 56.998 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 216.65 Mbit/s

95th percentile per-packet one-way delay: 56.657 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 209.67 Mbit/s

95th percentile per-packet one-way delay: 57.780 ms

Loss rate: 0.38%

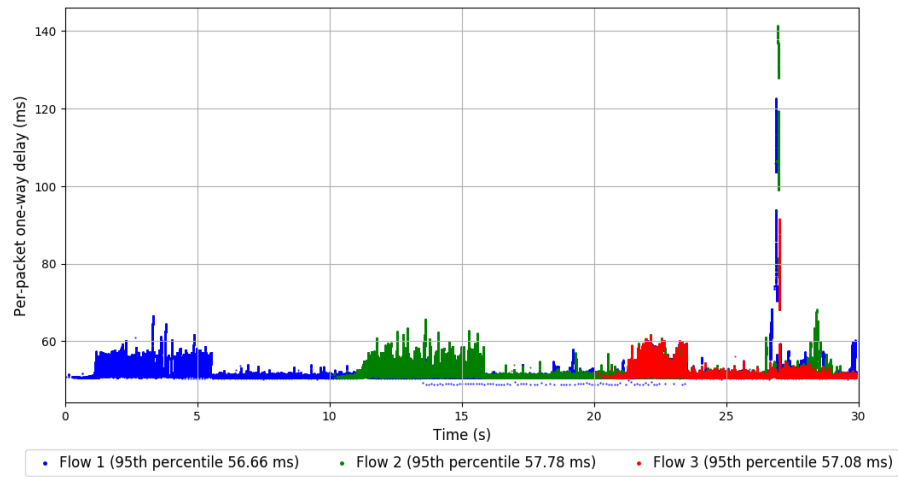
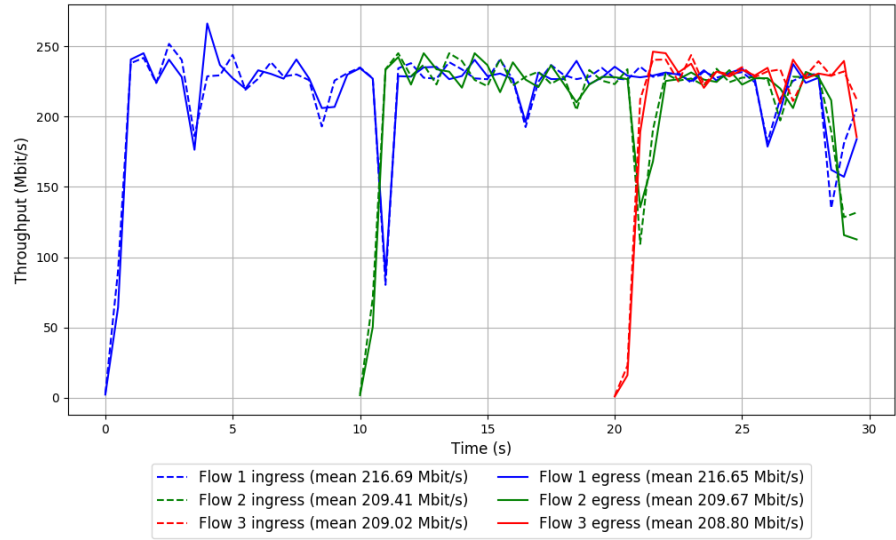
-- Flow 3:

Average throughput: 208.80 Mbit/s

95th percentile per-packet one-way delay: 57.075 ms

Loss rate: 1.13%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-09-22 08:16:52

End at: 2017-09-22 08:17:22

Below is generated by plot.py at 2017-09-22 11:43:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 430.49 Mbit/s

95th percentile per-packet one-way delay: 55.357 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 218.60 Mbit/s

95th percentile per-packet one-way delay: 55.141 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 202.76 Mbit/s

95th percentile per-packet one-way delay: 54.634 ms

Loss rate: 0.57%

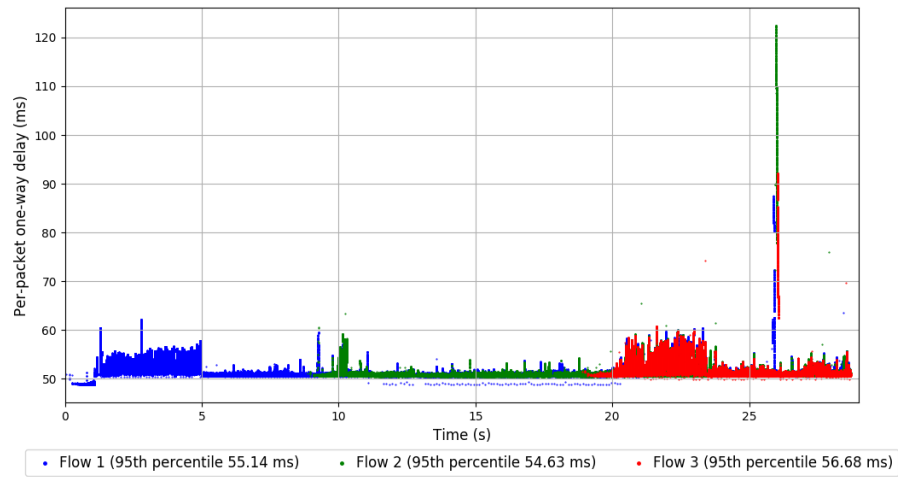
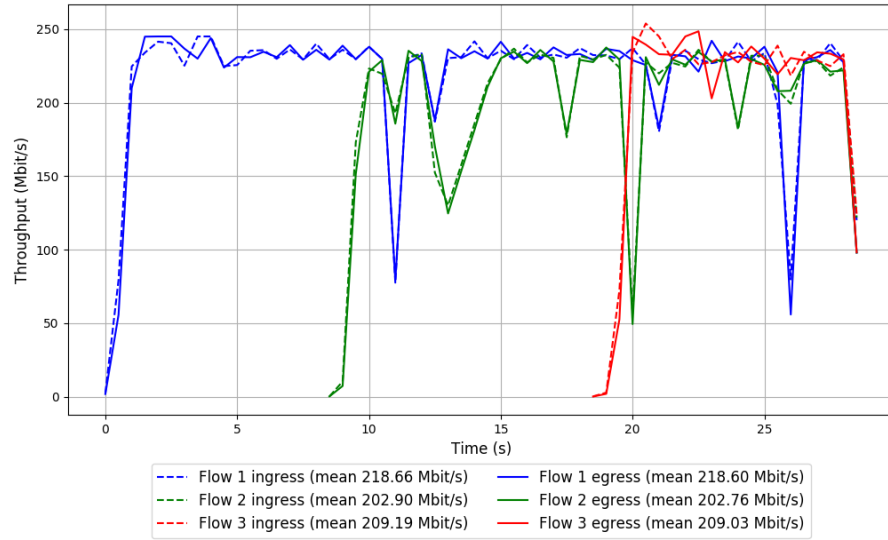
-- Flow 3:

Average throughput: 209.03 Mbit/s

95th percentile per-packet one-way delay: 56.677 ms

Loss rate: 1.10%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-09-22 08:29:31

End at: 2017-09-22 08:30:01

Below is generated by plot.py at 2017-09-22 11:43:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 422.19 Mbit/s

95th percentile per-packet one-way delay: 51.649 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 213.43 Mbit/s

95th percentile per-packet one-way delay: 51.248 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 213.32 Mbit/s

95th percentile per-packet one-way delay: 51.597 ms

Loss rate: 0.54%

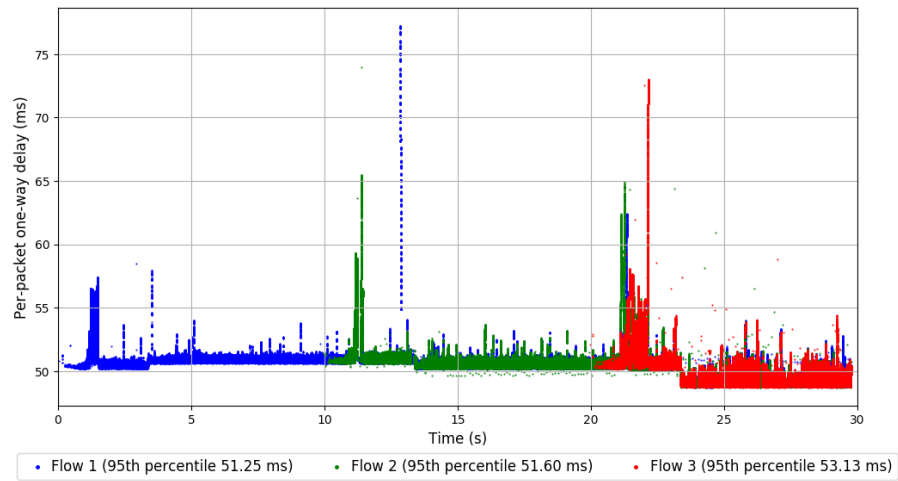
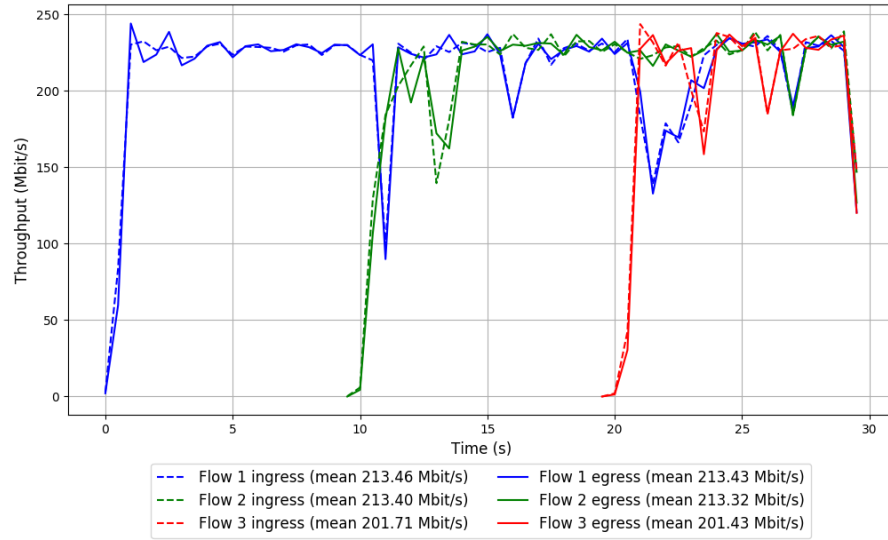
-- Flow 3:

Average throughput: 201.43 Mbit/s

95th percentile per-packet one-way delay: 53.128 ms

Loss rate: 1.17%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-09-22 08:42:09

End at: 2017-09-22 08:42:39

Below is generated by plot.py at 2017-09-22 11:43:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 428.17 Mbit/s

95th percentile per-packet one-way delay: 53.081 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 219.78 Mbit/s

95th percentile per-packet one-way delay: 51.574 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 215.53 Mbit/s

95th percentile per-packet one-way delay: 55.232 ms

Loss rate: 0.52%

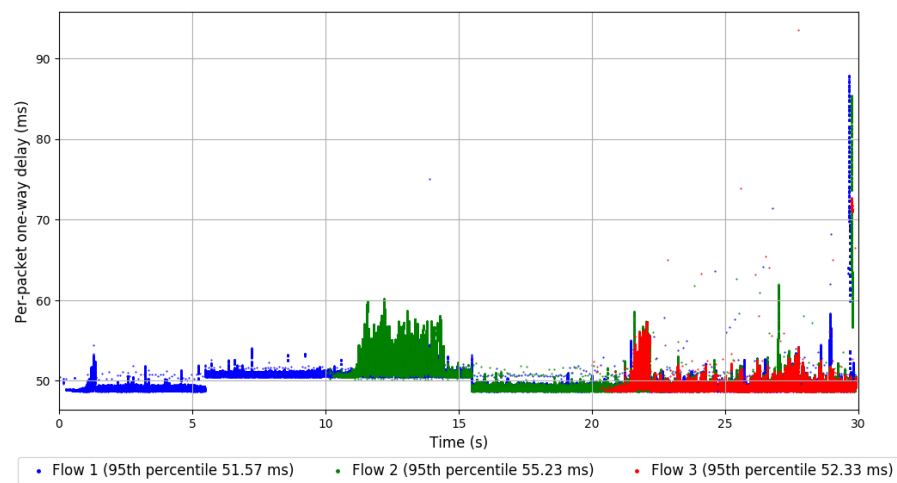
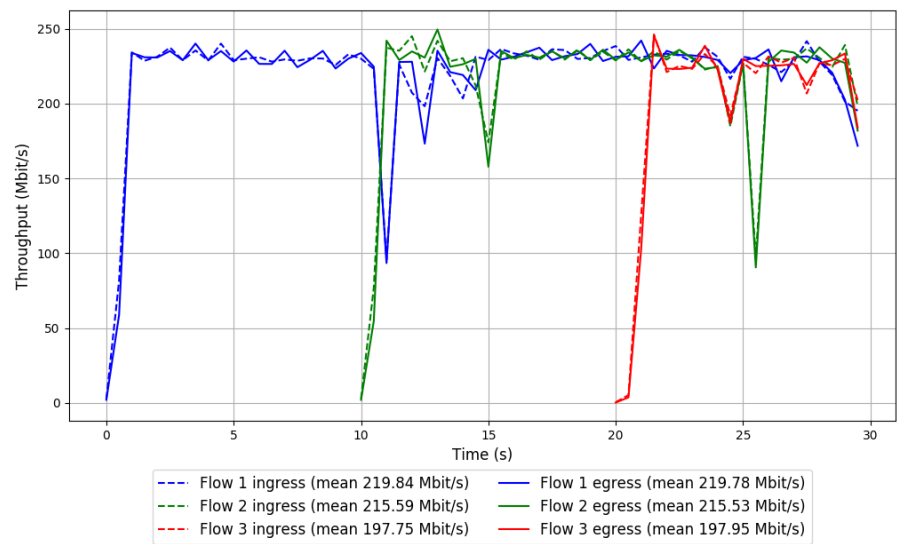
-- Flow 3:

Average throughput: 197.95 Mbit/s

95th percentile per-packet one-way delay: 52.333 ms

Loss rate: 0.93%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-09-22 08:54:58

End at: 2017-09-22 08:55:28

Below is generated by plot.py at 2017-09-22 11:43:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 440.41 Mbit/s

95th percentile per-packet one-way delay: 52.707 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 223.21 Mbit/s

95th percentile per-packet one-way delay: 52.783 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 221.76 Mbit/s

95th percentile per-packet one-way delay: 52.493 ms

Loss rate: 0.56%

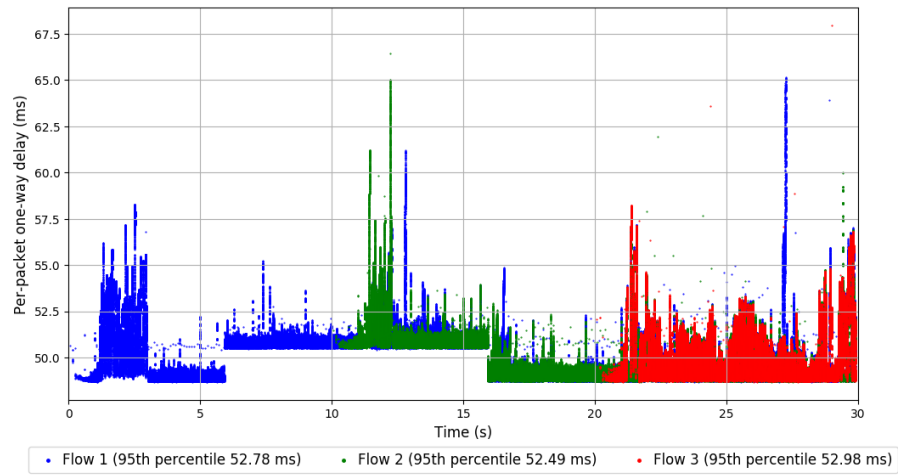
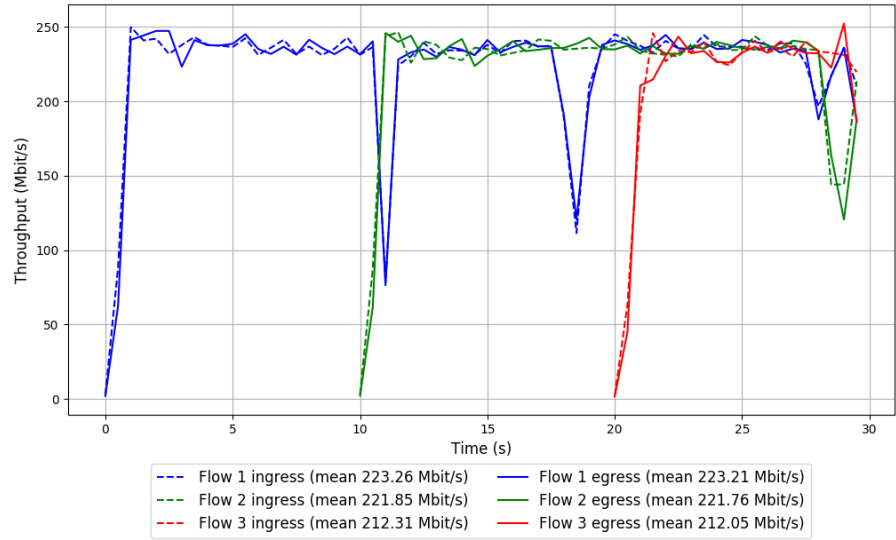
-- Flow 3:

Average throughput: 212.05 Mbit/s

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

Loss rate: 1.16%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-09-22 09:07:46

End at: 2017-09-22 09:08:16

Below is generated by plot.py at 2017-09-22 11:50:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 431.39 Mbit/s

95th percentile per-packet one-way delay: 54.966 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 220.04 Mbit/s

95th percentile per-packet one-way delay: 53.214 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 216.38 Mbit/s

95th percentile per-packet one-way delay: 56.924 ms

Loss rate: 0.58%

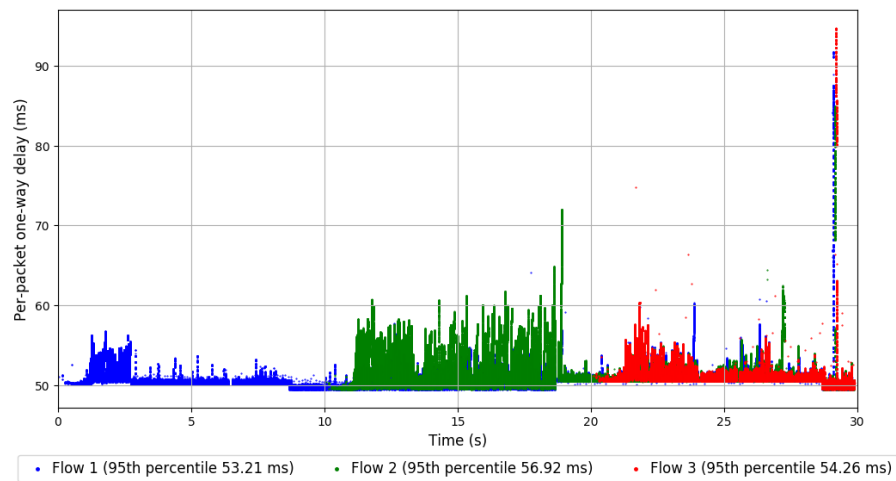
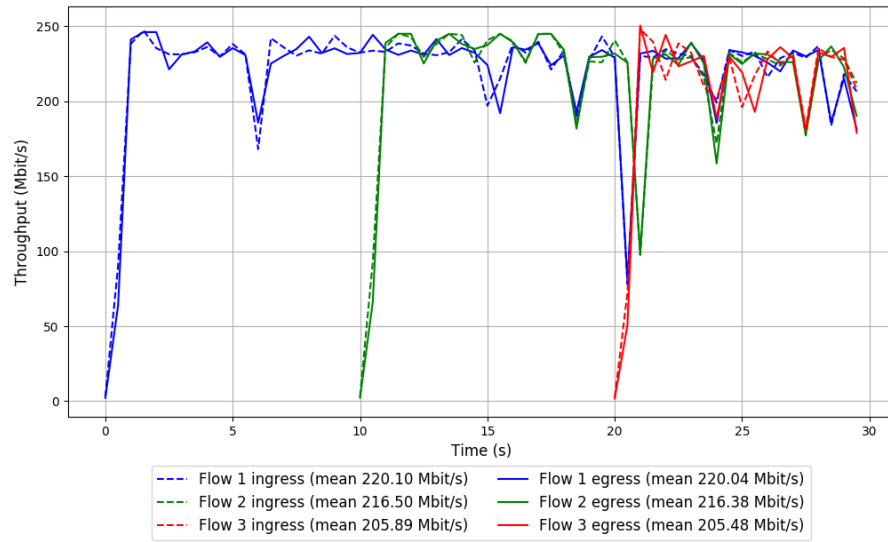
-- Flow 3:

Average throughput: 205.48 Mbit/s

95th percentile per-packet one-way delay: 54.264 ms

Loss rate: 1.15%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-09-22 09:20:26

End at: 2017-09-22 09:20:56

Below is generated by plot.py at 2017-09-22 11:51:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 411.35 Mbit/s

95th percentile per-packet one-way delay: 53.430 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 208.92 Mbit/s

95th percentile per-packet one-way delay: 52.463 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 210.12 Mbit/s

95th percentile per-packet one-way delay: 54.381 ms

Loss rate: 0.56%

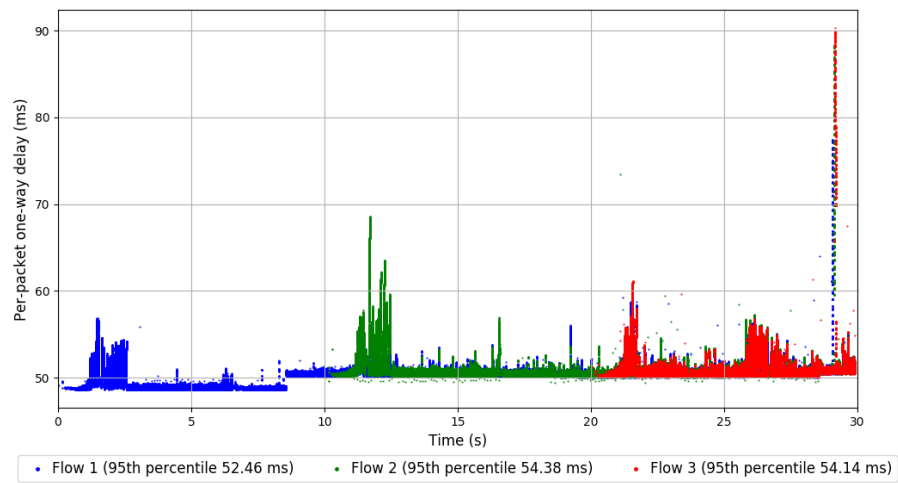
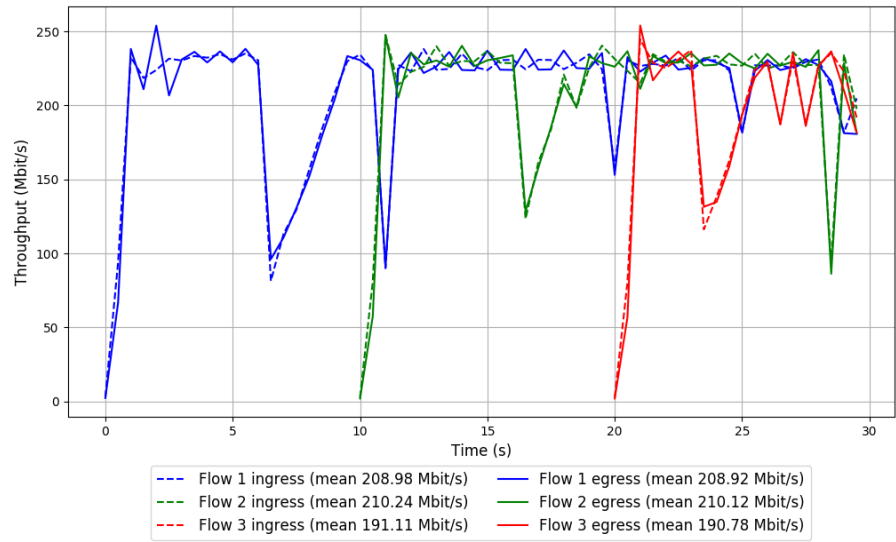
-- Flow 3:

Average throughput: 190.78 Mbit/s

95th percentile per-packet one-way delay: 54.138 ms

Loss rate: 1.17%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-09-22 07:21:59

End at: 2017-09-22 07:22:29

Below is generated by plot.py at 2017-09-22 11:51:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 227.75 Mbit/s

95th percentile per-packet one-way delay: 52.937 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 121.72 Mbit/s

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

Loss rate: 0.37%

-- Flow 2:

Average throughput: 112.04 Mbit/s

95th percentile per-packet one-way delay: 52.349 ms

Loss rate: 0.31%

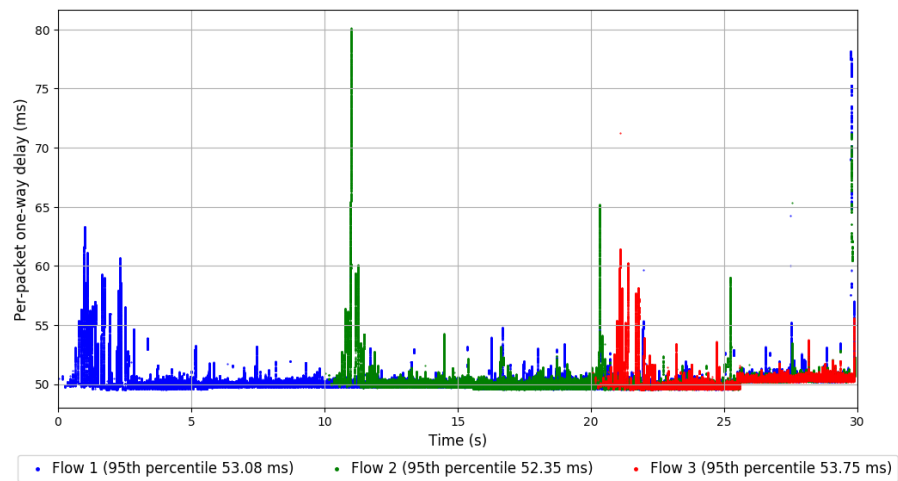
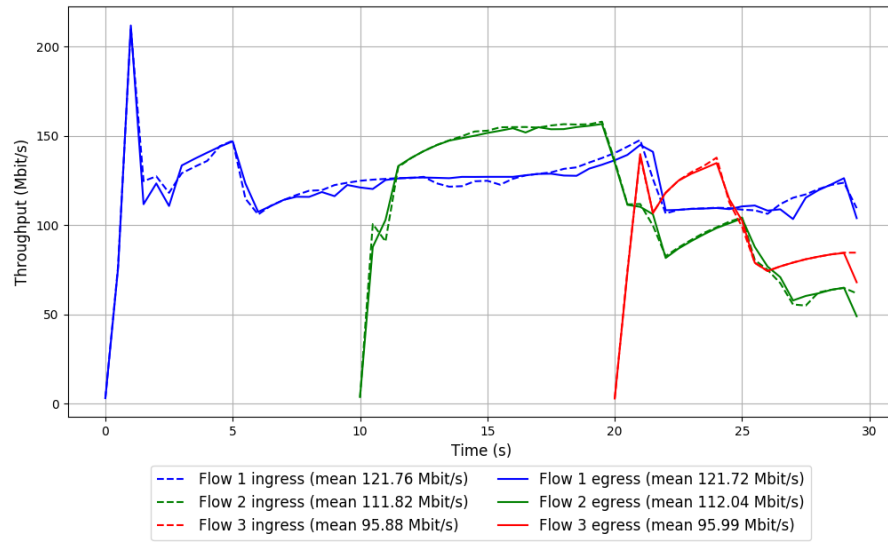
-- Flow 3:

Average throughput: 95.99 Mbit/s

95th percentile per-packet one-way delay: 53.751 ms

Loss rate: 0.89%

Run 1: Report of TCP Cubic — Data Link

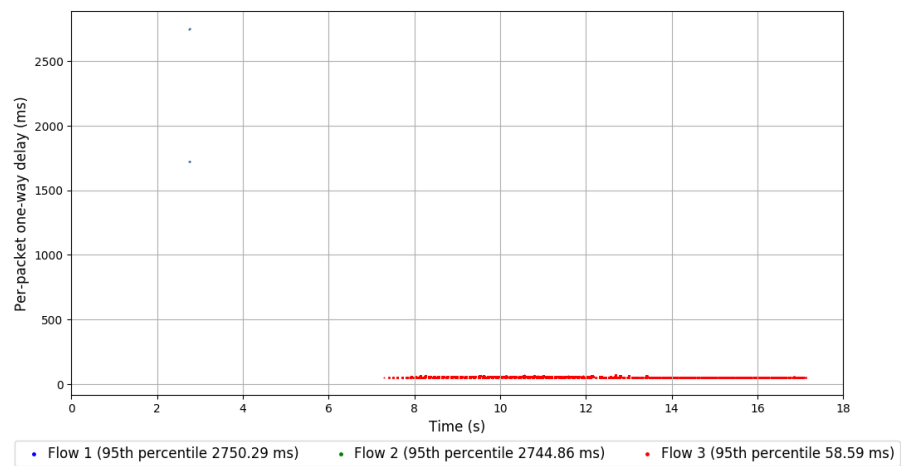
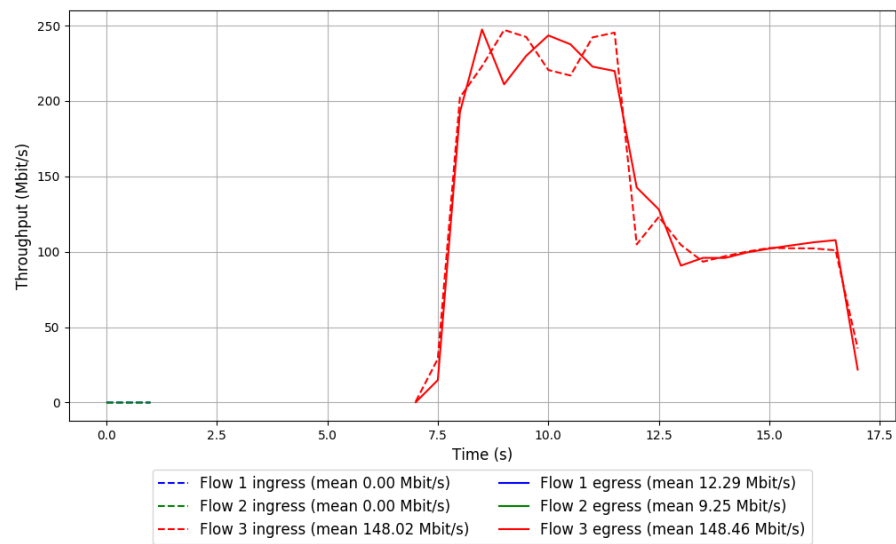


Run 2: Statistics of TCP Cubic

Start at: 2017-09-22 07:34:49

End at: 2017-09-22 07:35:19

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-09-22 07:47:11

End at: 2017-09-22 07:47:41

Below is generated by plot.py at 2017-09-22 11:51:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 228.66 Mbit/s

95th percentile per-packet one-way delay: 54.214 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 110.45 Mbit/s

95th percentile per-packet one-way delay: 54.143 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 118.66 Mbit/s

95th percentile per-packet one-way delay: 55.822 ms

Loss rate: 0.58%

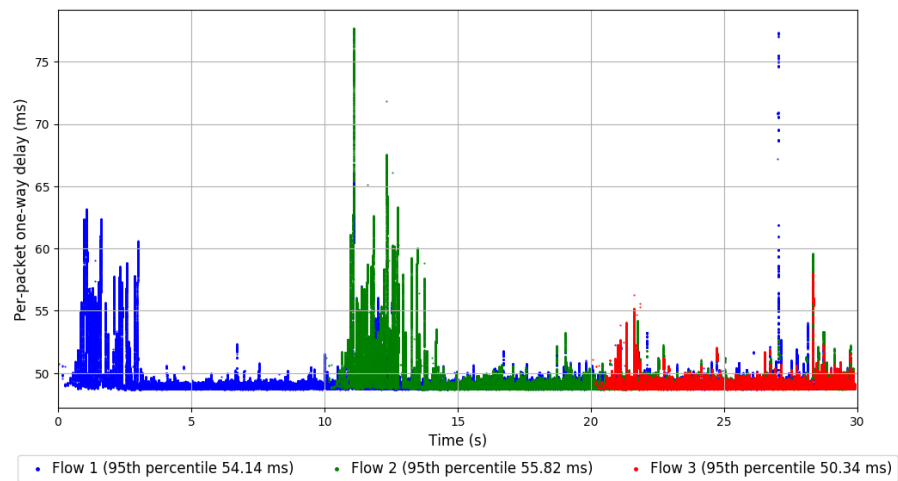
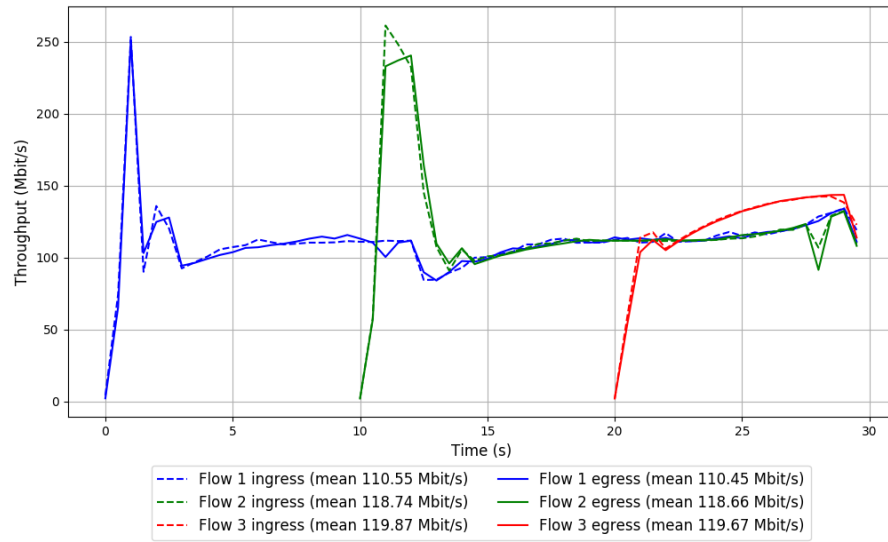
-- Flow 3:

Average throughput: 119.67 Mbit/s

95th percentile per-packet one-way delay: 50.343 ms

Loss rate: 1.19%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-09-22 08:00:10

End at: 2017-09-22 08:00:40

Below is generated by plot.py at 2017-09-22 11:51:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 231.45 Mbit/s

95th percentile per-packet one-way delay: 57.836 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 133.21 Mbit/s

95th percentile per-packet one-way delay: 57.689 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 98.84 Mbit/s

95th percentile per-packet one-way delay: 57.580 ms

Loss rate: 0.40%

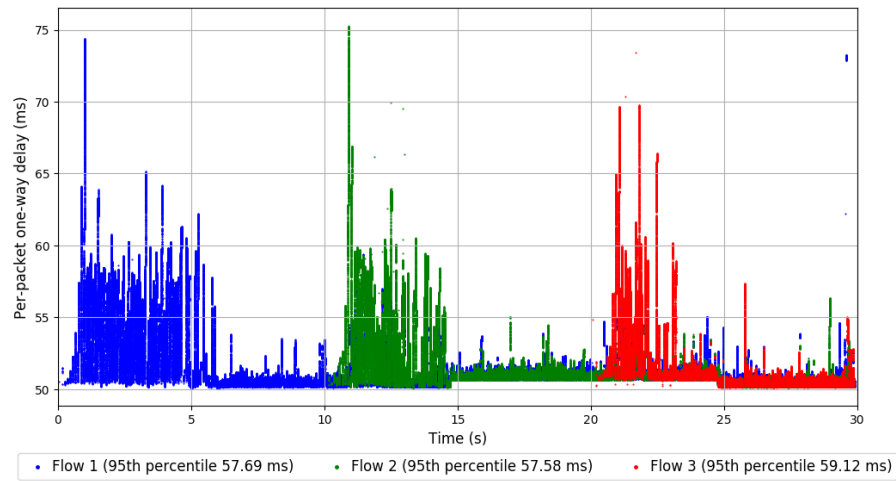
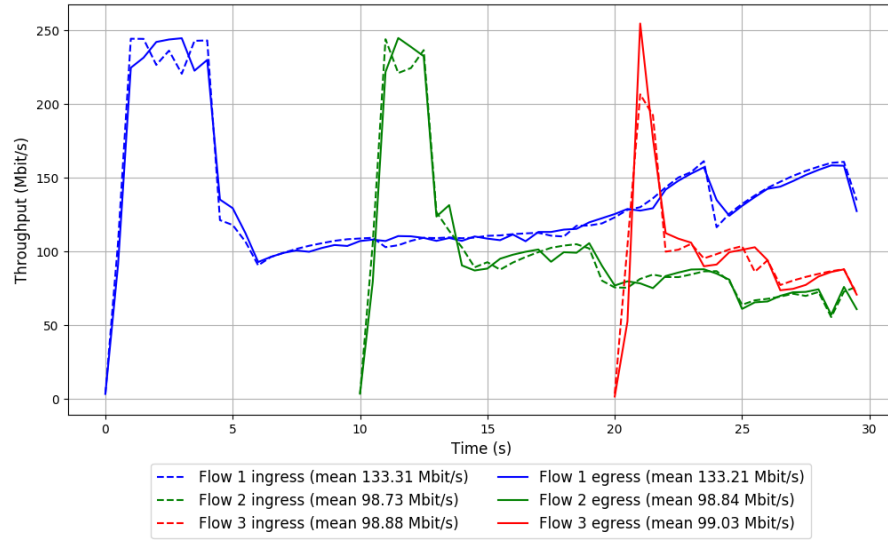
-- Flow 3:

Average throughput: 99.03 Mbit/s

95th percentile per-packet one-way delay: 59.122 ms

Loss rate: 0.91%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-09-22 08:13:08

End at: 2017-09-22 08:13:38

Below is generated by plot.py at 2017-09-22 11:51:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 242.15 Mbit/s

95th percentile per-packet one-way delay: 53.562 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 191.35 Mbit/s

95th percentile per-packet one-way delay: 53.626 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 31.82 Mbit/s

95th percentile per-packet one-way delay: 51.494 ms

Loss rate: 1.24%

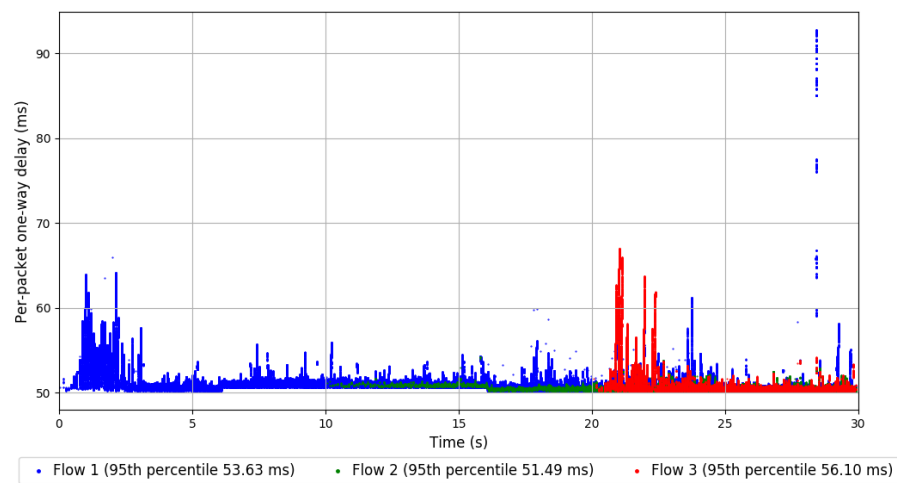
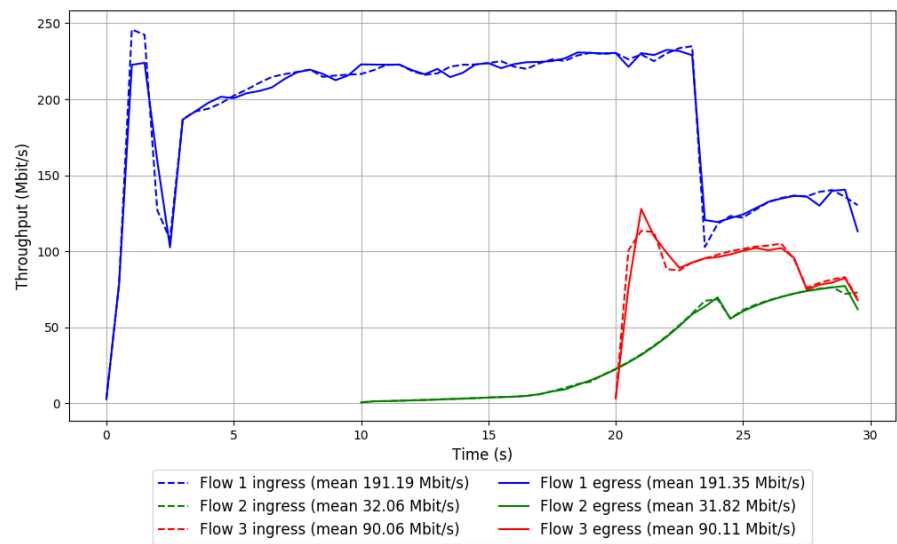
-- Flow 3:

Average throughput: 90.11 Mbit/s

95th percentile per-packet one-way delay: 56.096 ms

Loss rate: 0.97%

Run 5: Report of TCP Cubic — Data Link

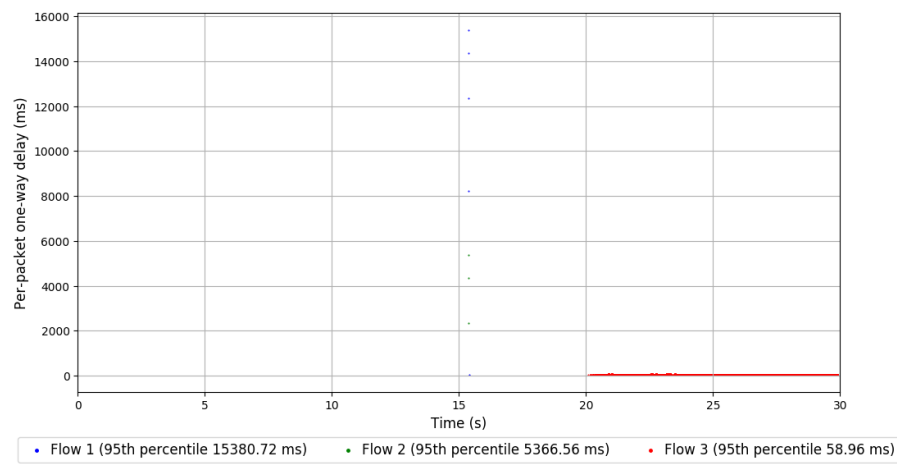
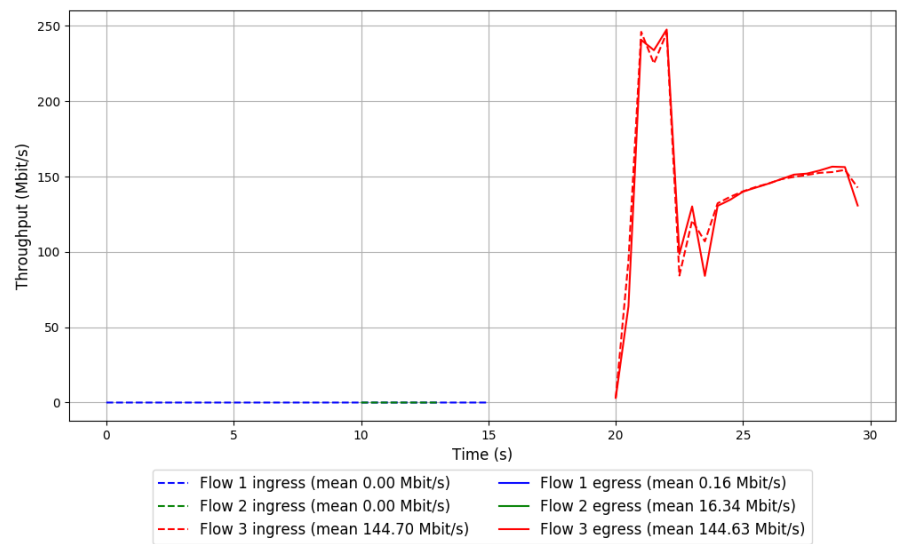


Run 6: Statistics of TCP Cubic

Start at: 2017-09-22 08:25:49

End at: 2017-09-22 08:26:19

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-09-22 08:38:19

End at: 2017-09-22 08:38:49

Below is generated by plot.py at 2017-09-22 11:51:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 233.17 Mbit/s

95th percentile per-packet one-way delay: 52.195 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 128.80 Mbit/s

95th percentile per-packet one-way delay: 52.455 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 119.64 Mbit/s

95th percentile per-packet one-way delay: 51.493 ms

Loss rate: 0.34%

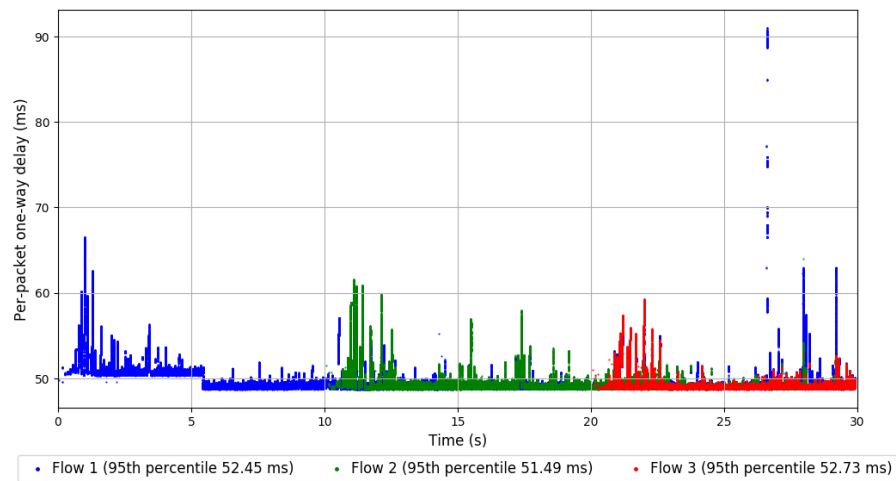
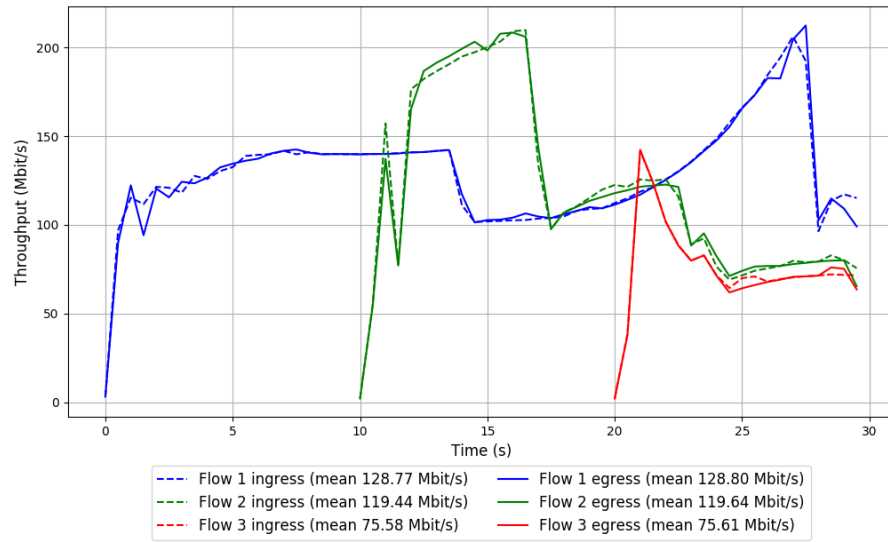
-- Flow 3:

Average throughput: 75.61 Mbit/s

95th percentile per-packet one-way delay: 52.731 ms

Loss rate: 0.97%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-09-22 08:51:06

End at: 2017-09-22 08:51:36

Below is generated by plot.py at 2017-09-22 11:51:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 289.19 Mbit/s

95th percentile per-packet one-way delay: 56.054 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 175.30 Mbit/s

95th percentile per-packet one-way delay: 56.694 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 114.99 Mbit/s

95th percentile per-packet one-way delay: 55.090 ms

Loss rate: 0.48%

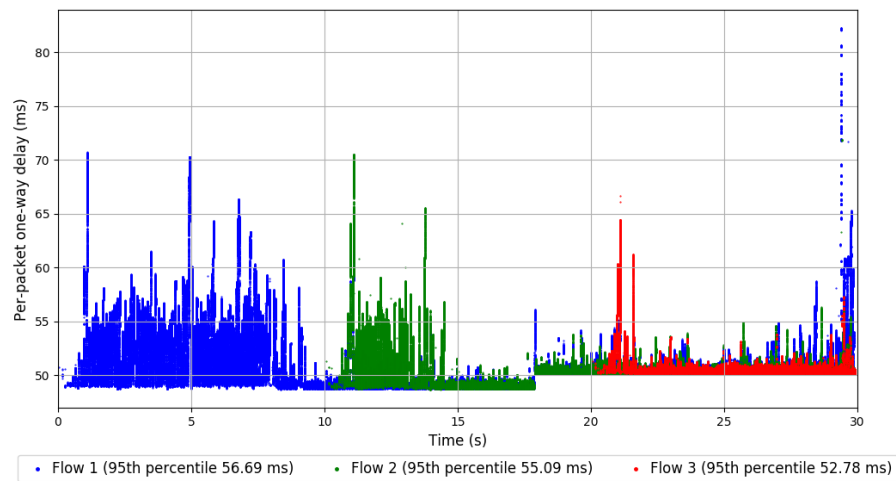
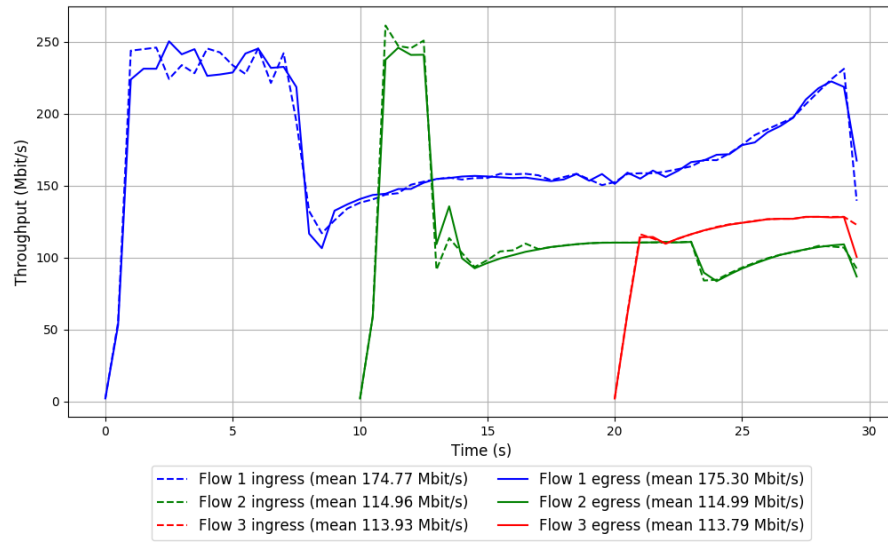
-- Flow 3:

Average throughput: 113.79 Mbit/s

95th percentile per-packet one-way delay: 52.778 ms

Loss rate: 1.13%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-09-22 09:03:52

End at: 2017-09-22 09:04:22

Below is generated by plot.py at 2017-09-22 11:52:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 262.98 Mbit/s

95th percentile per-packet one-way delay: 57.457 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 143.98 Mbit/s

95th percentile per-packet one-way delay: 58.417 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 128.26 Mbit/s

95th percentile per-packet one-way delay: 53.904 ms

Loss rate: 0.50%

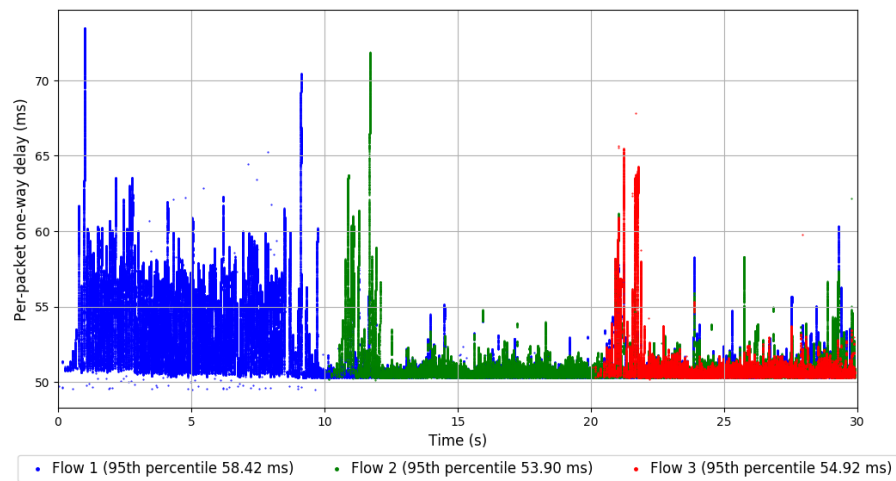
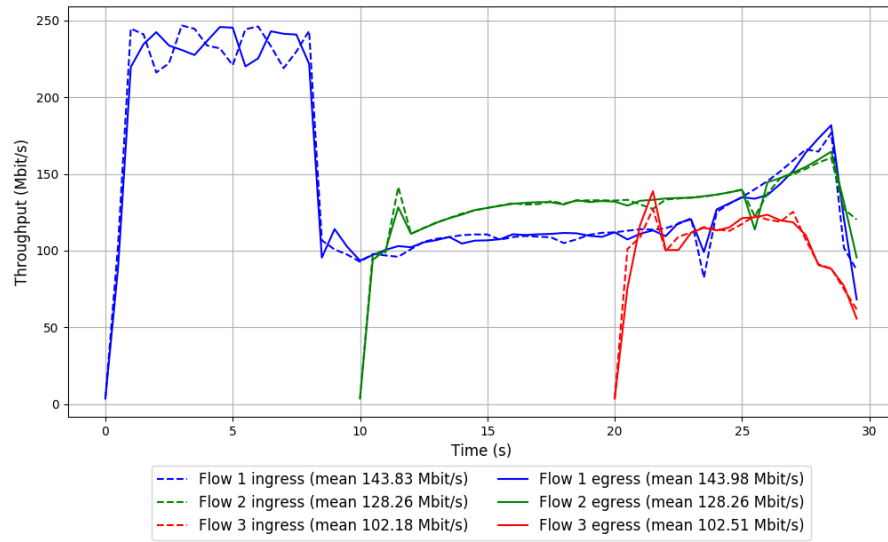
-- Flow 3:

Average throughput: 102.51 Mbit/s

95th percentile per-packet one-way delay: 54.916 ms

Loss rate: 0.71%

Run 9: Report of TCP Cubic — Data Link

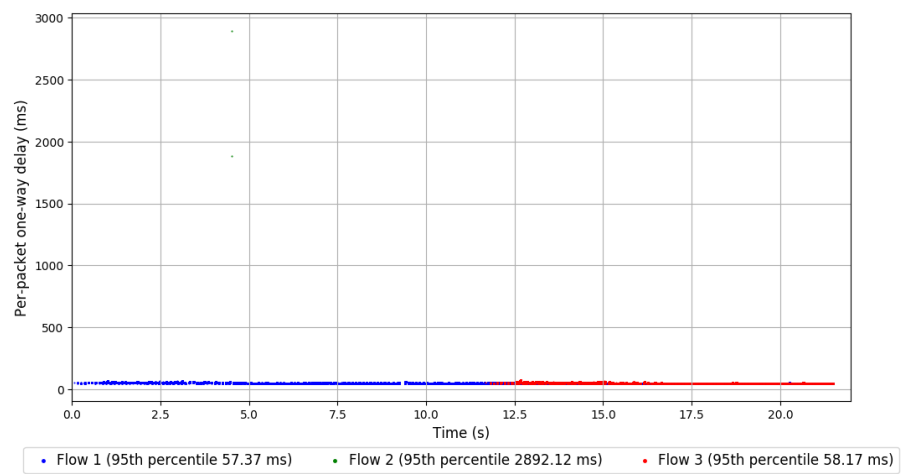
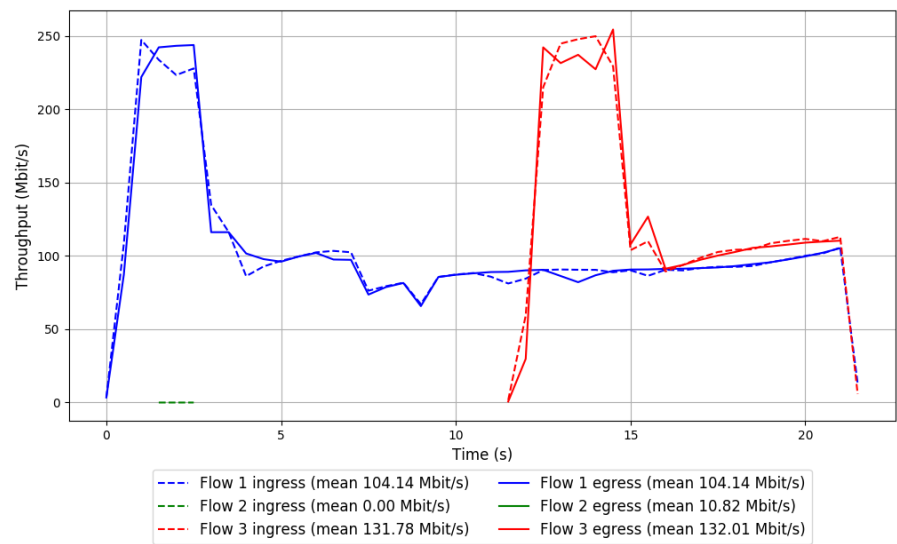


Run 10: Statistics of TCP Cubic

Start at: 2017-09-22 09:16:41

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

Run 10: Report of TCP Cubic — Data Link

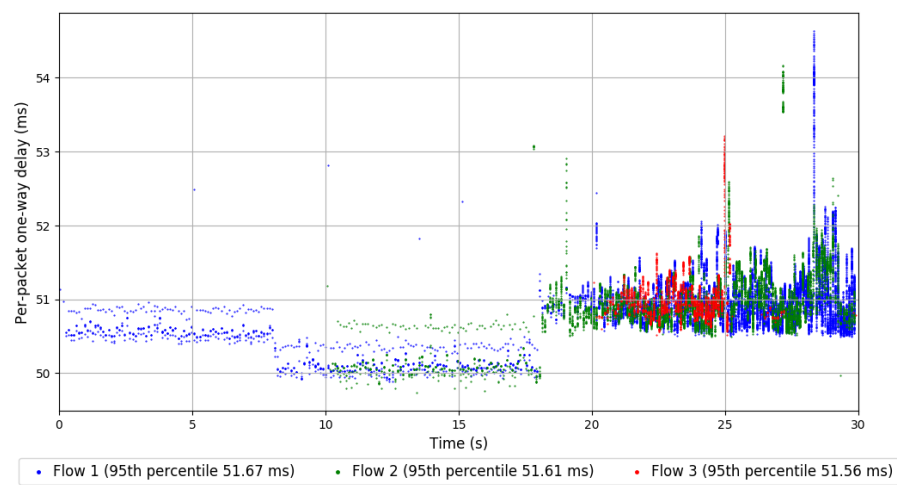
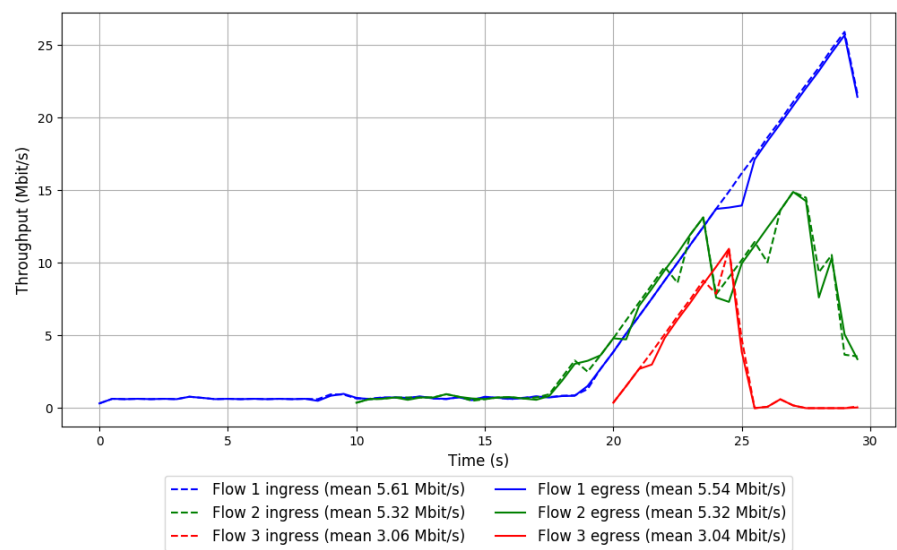


```
Run 1: Statistics of LEDBAT

Start at: 2017-09-22 07:19:36
End at: 2017-09-22 07:20:06

# Below is generated by plot.py at 2017-09-22 11:52:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.06 Mbit/s
95th percentile per-packet one-way delay: 51.641 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 5.54 Mbit/s
95th percentile per-packet one-way delay: 51.675 ms
Loss rate: 1.64%
-- Flow 2:
Average throughput: 5.32 Mbit/s
95th percentile per-packet one-way delay: 51.610 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 3.04 Mbit/s
95th percentile per-packet one-way delay: 51.559 ms
Loss rate: 1.58%
```


Run 1: Report of LEDBAT — Data Link

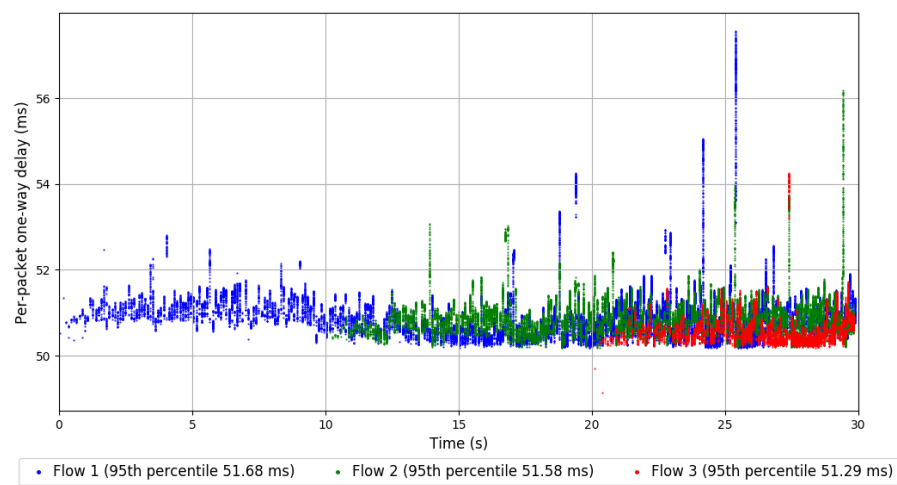
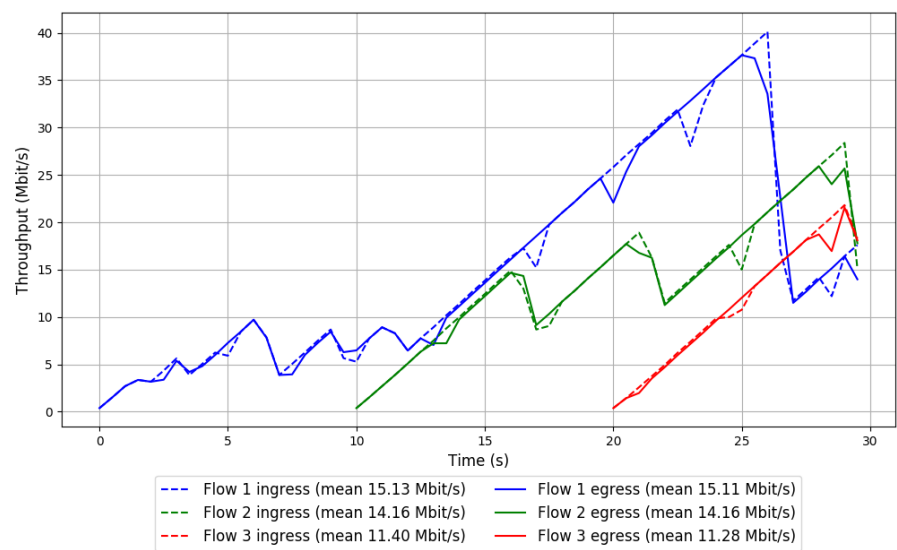


```
Run 2: Statistics of LEDBAT

Start at: 2017-09-22 07:32:25
End at: 2017-09-22 07:32:55

# Below is generated by plot.py at 2017-09-22 11:52:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.17 Mbit/s
95th percentile per-packet one-way delay: 51.584 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 15.11 Mbit/s
95th percentile per-packet one-way delay: 51.682 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 14.16 Mbit/s
95th percentile per-packet one-way delay: 51.579 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 11.28 Mbit/s
95th percentile per-packet one-way delay: 51.286 ms
Loss rate: 2.07%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-09-22 07:44:47

End at: 2017-09-22 07:45:17

Below is generated by plot.py at 2017-09-22 11:52:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.77 Mbit/s

95th percentile per-packet one-way delay: 51.266 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 11.90 Mbit/s

95th percentile per-packet one-way delay: 51.290 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 11.94 Mbit/s

95th percentile per-packet one-way delay: 51.270 ms

Loss rate: 1.13%

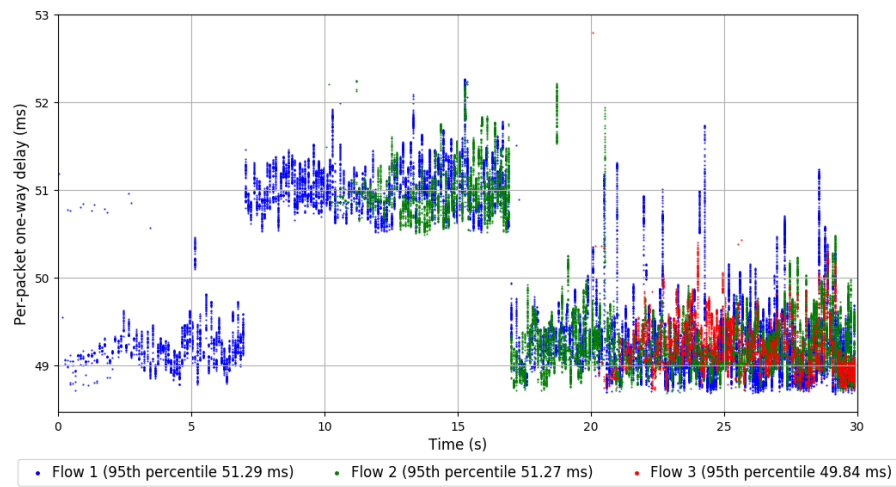
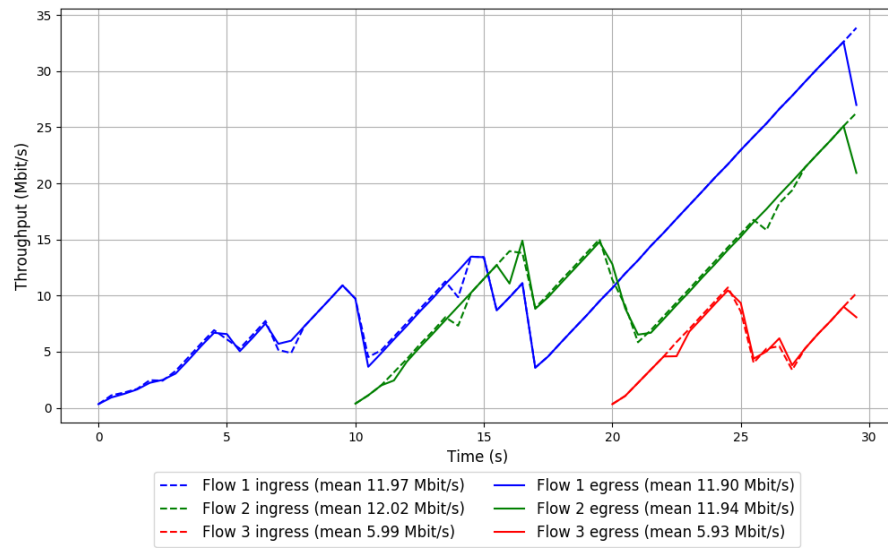
-- Flow 3:

Average throughput: 5.93 Mbit/s

95th percentile per-packet one-way delay: 49.845 ms

Loss rate: 2.02%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-09-22 07:57:45

End at: 2017-09-22 07:58:15

Below is generated by plot.py at 2017-09-22 11:52:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.04 Mbit/s

95th percentile per-packet one-way delay: 51.974 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 9.20 Mbit/s

95th percentile per-packet one-way delay: 51.814 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 7.61 Mbit/s

95th percentile per-packet one-way delay: 52.102 ms

Loss rate: 1.75%

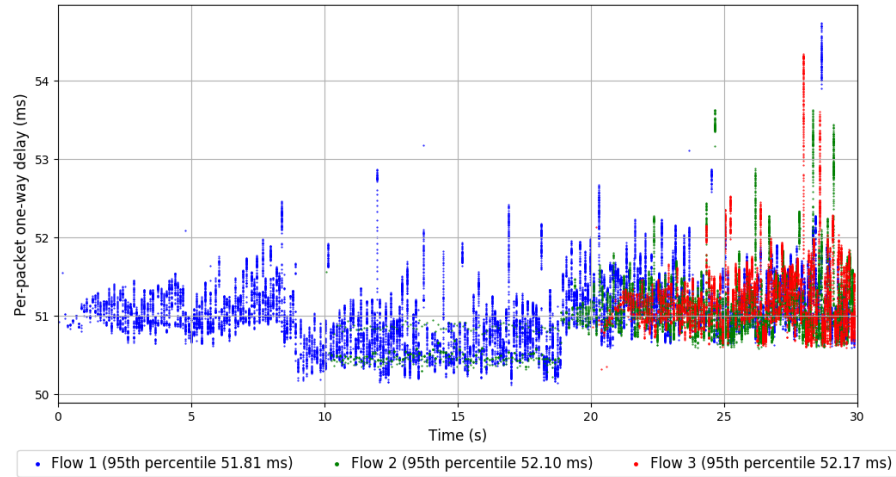
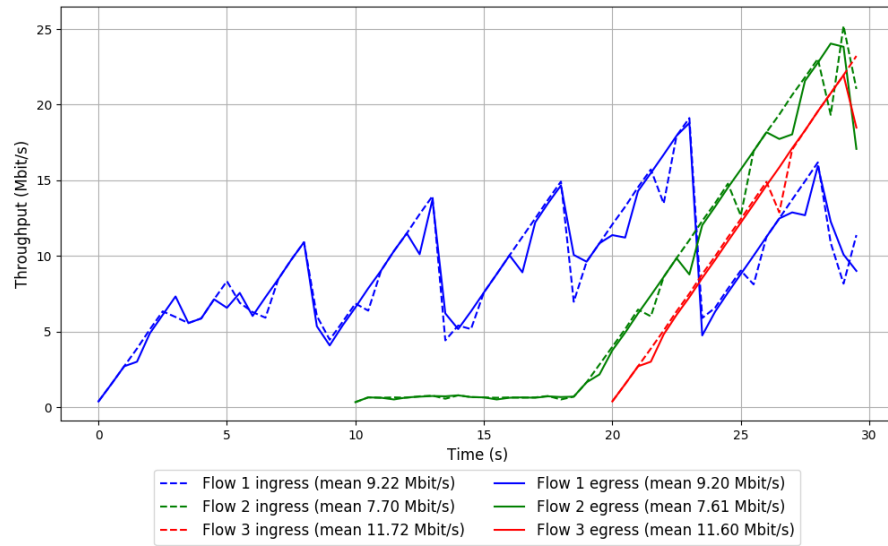
-- Flow 3:

Average throughput: 11.60 Mbit/s

95th percentile per-packet one-way delay: 52.172 ms

Loss rate: 2.04%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-09-22 08:10:44

End at: 2017-09-22 08:11:14

Below is generated by plot.py at 2017-09-22 11:52:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.38 Mbit/s

95th percentile per-packet one-way delay: 51.071 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 15.08 Mbit/s

95th percentile per-packet one-way delay: 51.140 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 11.41 Mbit/s

95th percentile per-packet one-way delay: 50.910 ms

Loss rate: 1.44%

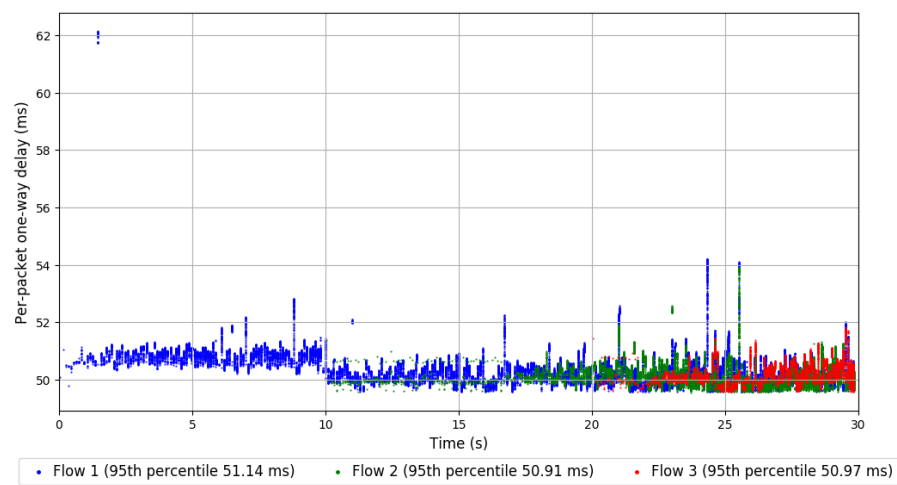
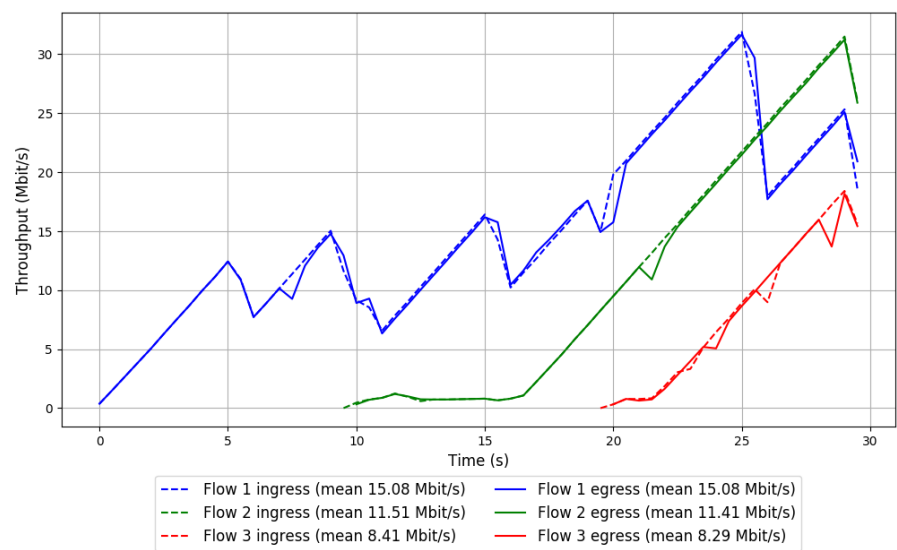
-- Flow 3:

Average throughput: 8.29 Mbit/s

95th percentile per-packet one-way delay: 50.970 ms

Loss rate: 2.40%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-09-22 08:23:25

End at: 2017-09-22 08:23:56

Below is generated by plot.py at 2017-09-22 11:52:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 29.40 Mbit/s

95th percentile per-packet one-way delay: 52.109 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 12.52 Mbit/s

95th percentile per-packet one-way delay: 52.023 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 21.69 Mbit/s

95th percentile per-packet one-way delay: 52.279 ms

Loss rate: 0.58%

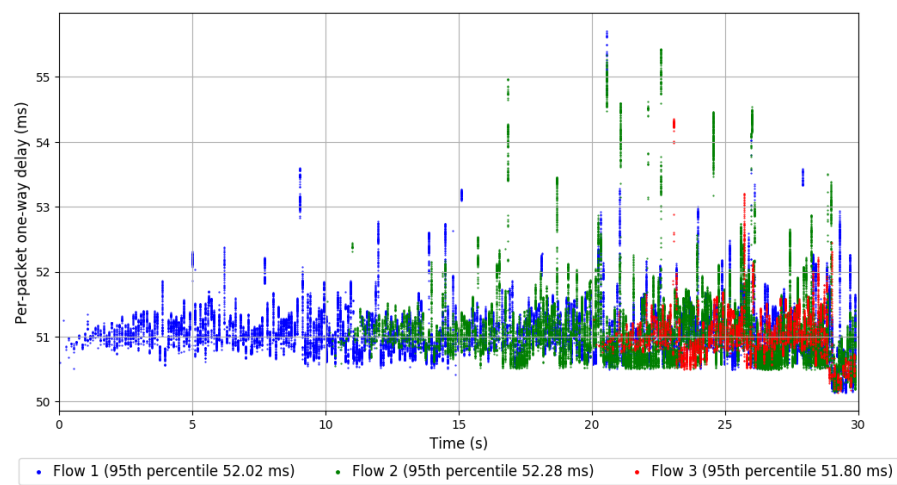
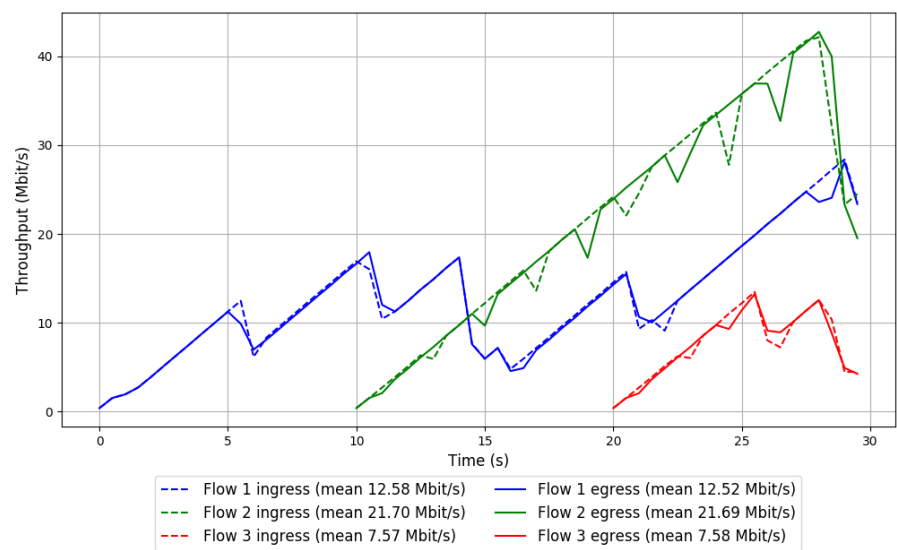
-- Flow 3:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 51.795 ms

Loss rate: 0.88%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-09-22 08:35:54

End at: 2017-09-22 08:36:24

Below is generated by plot.py at 2017-09-22 11:52:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.54 Mbit/s

95th percentile per-packet one-way delay: 50.774 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 50.773 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 22.98 Mbit/s

95th percentile per-packet one-way delay: 50.855 ms

Loss rate: 1.02%

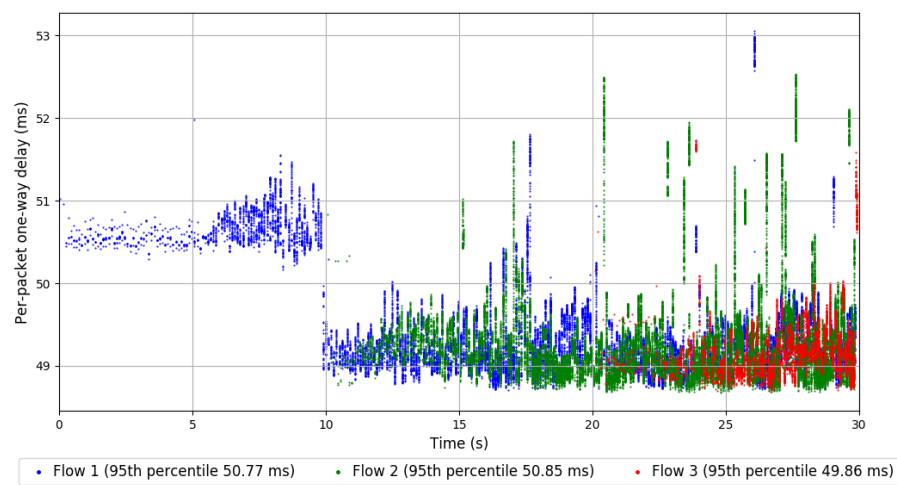
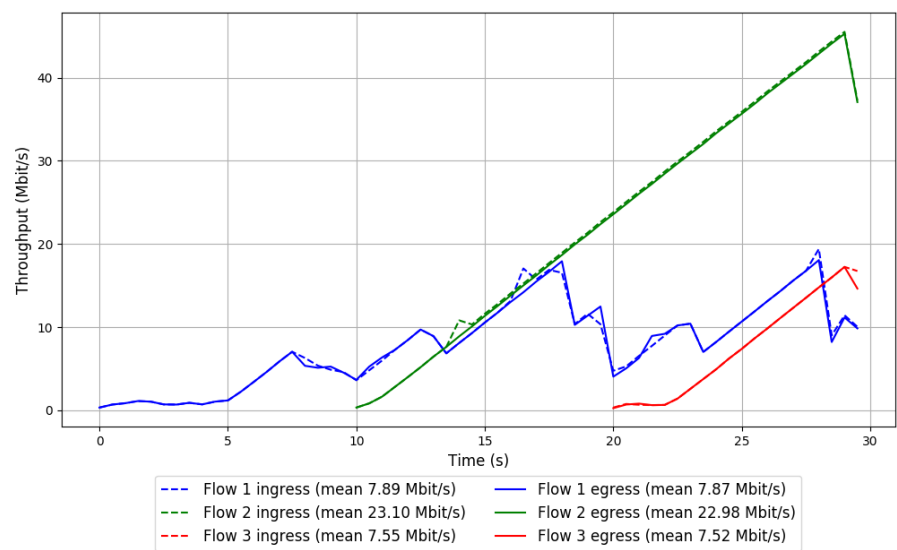
-- Flow 3:

Average throughput: 7.52 Mbit/s

95th percentile per-packet one-way delay: 49.857 ms

Loss rate: 1.41%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-09-22 08:48:43

End at: 2017-09-22 08:49:13

Below is generated by plot.py at 2017-09-22 11:52:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.52 Mbit/s

95th percentile per-packet one-way delay: 51.217 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 9.45 Mbit/s

95th percentile per-packet one-way delay: 51.346 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 10.25 Mbit/s

95th percentile per-packet one-way delay: 49.799 ms

Loss rate: 0.90%

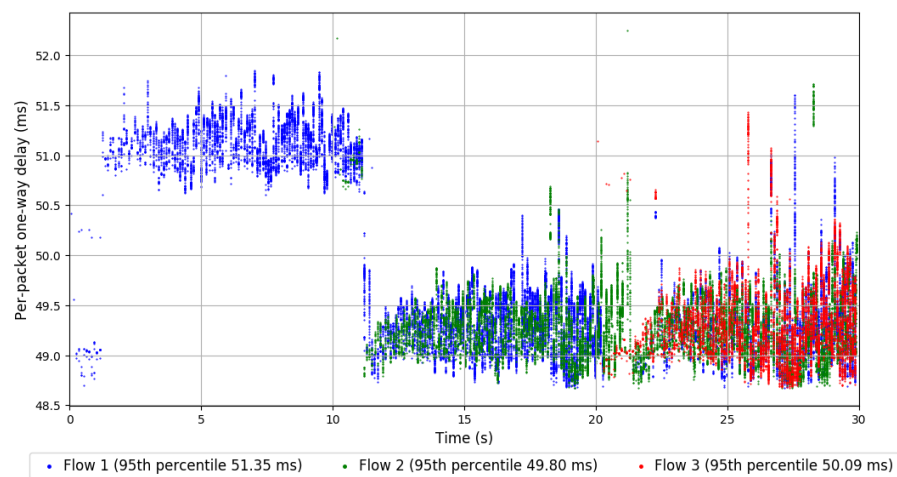
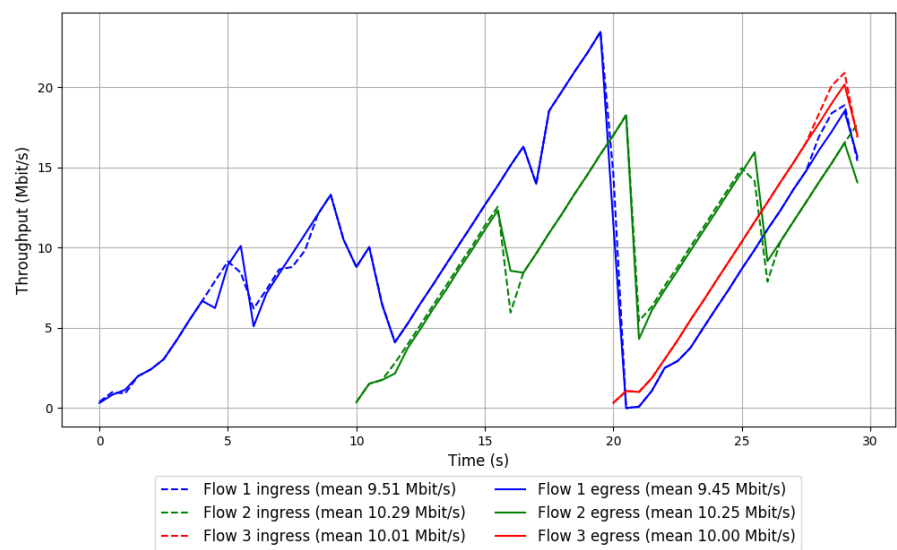
-- Flow 3:

Average throughput: 10.00 Mbit/s

95th percentile per-packet one-way delay: 50.085 ms

Loss rate: 1.15%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-09-22 09:01:27

End at: 2017-09-22 09:01:57

Below is generated by plot.py at 2017-09-22 11:52:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 27.27 Mbit/s

95th percentile per-packet one-way delay: 51.639 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 16.92 Mbit/s

95th percentile per-packet one-way delay: 51.680 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 15.17 Mbit/s

95th percentile per-packet one-way delay: 51.596 ms

Loss rate: 1.10%

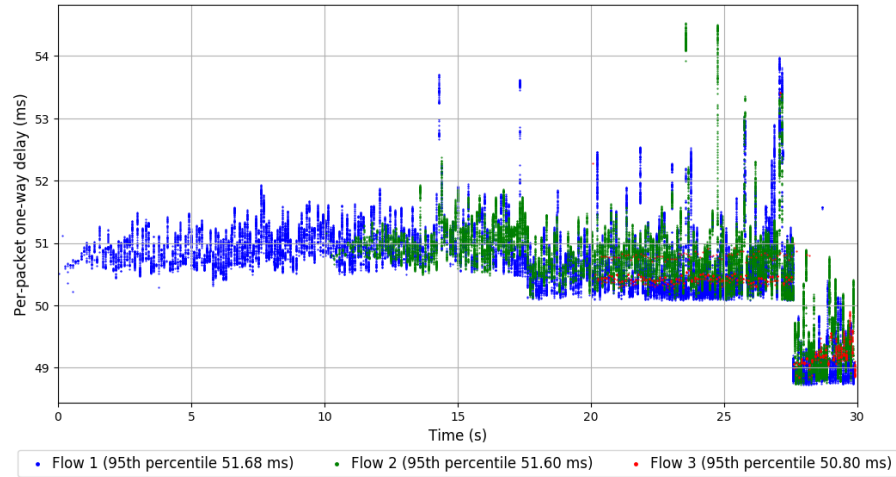
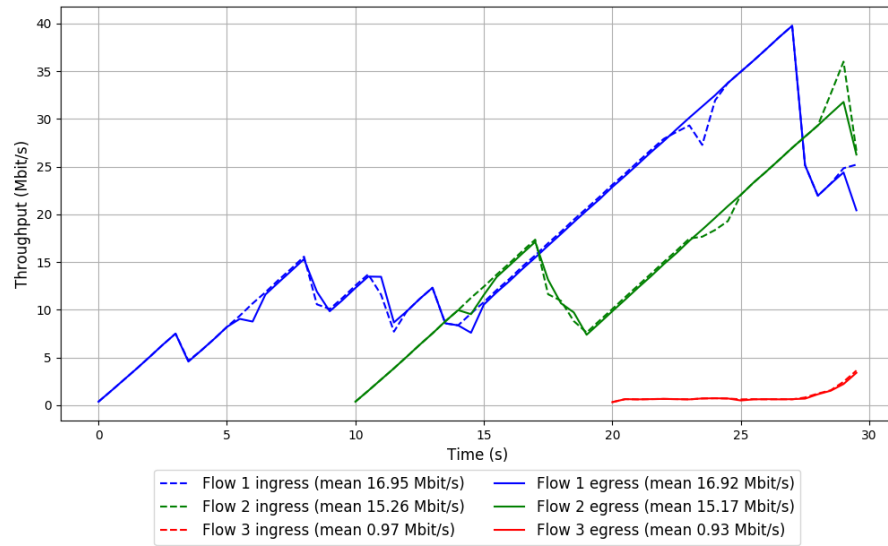
-- Flow 3:

Average throughput: 0.93 Mbit/s

95th percentile per-packet one-way delay: 50.799 ms

Loss rate: 4.28%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-09-22 09:14:17

End at: 2017-09-22 09:14:47

Below is generated by plot.py at 2017-09-22 11:52:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.14 Mbit/s

95th percentile per-packet one-way delay: 51.607 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 12.89 Mbit/s

95th percentile per-packet one-way delay: 51.631 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 16.49 Mbit/s

95th percentile per-packet one-way delay: 51.593 ms

Loss rate: 1.06%

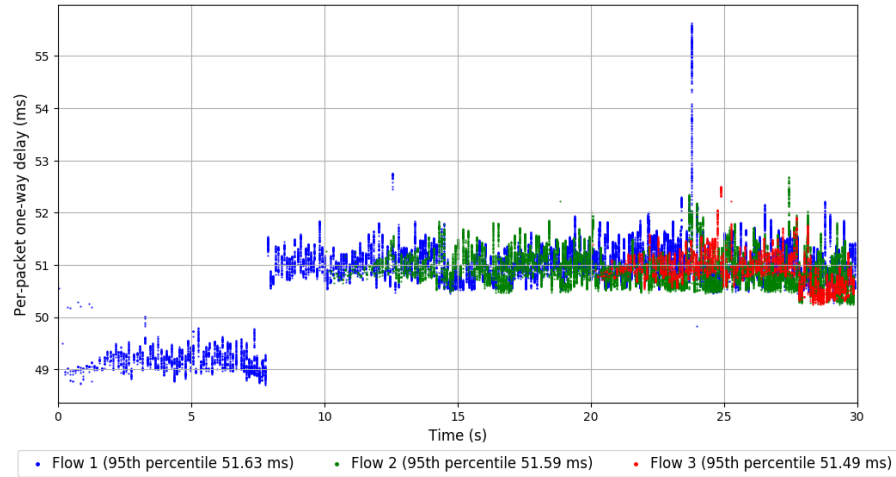
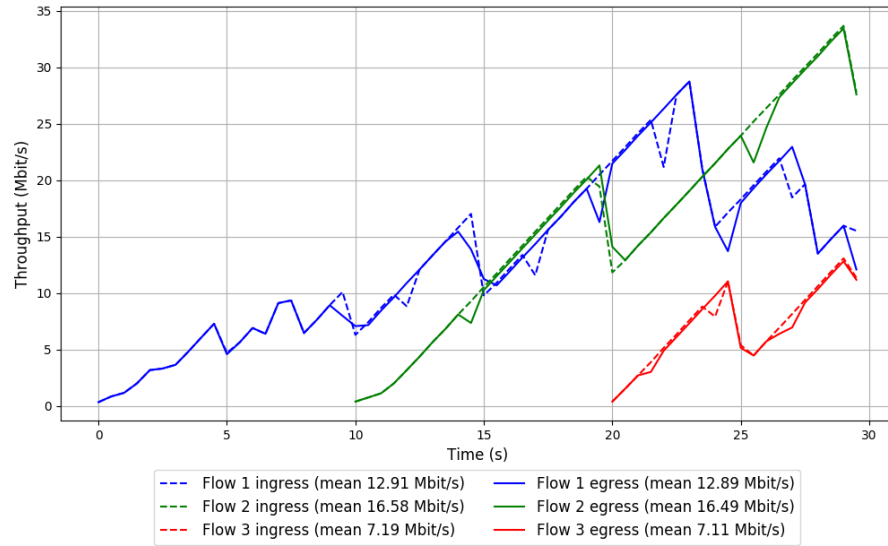
-- Flow 3:

Average throughput: 7.11 Mbit/s

95th percentile per-packet one-way delay: 51.491 ms

Loss rate: 2.21%

Run 10: Report of LEDBAT — Data Link

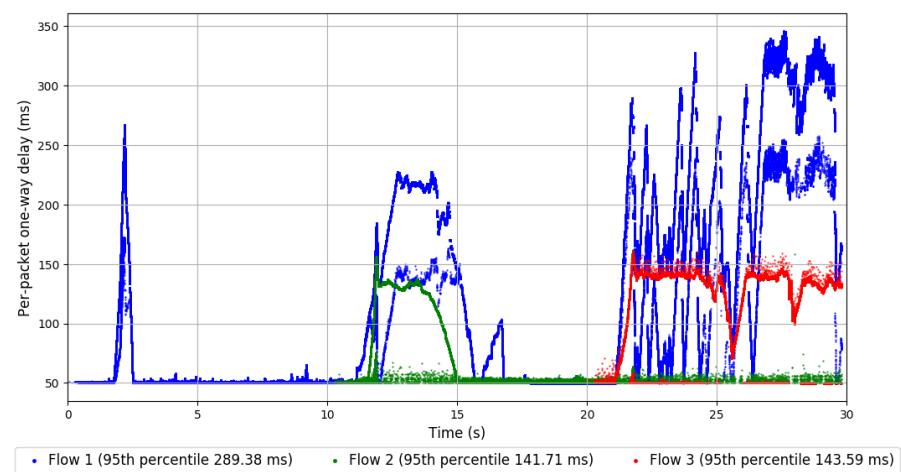
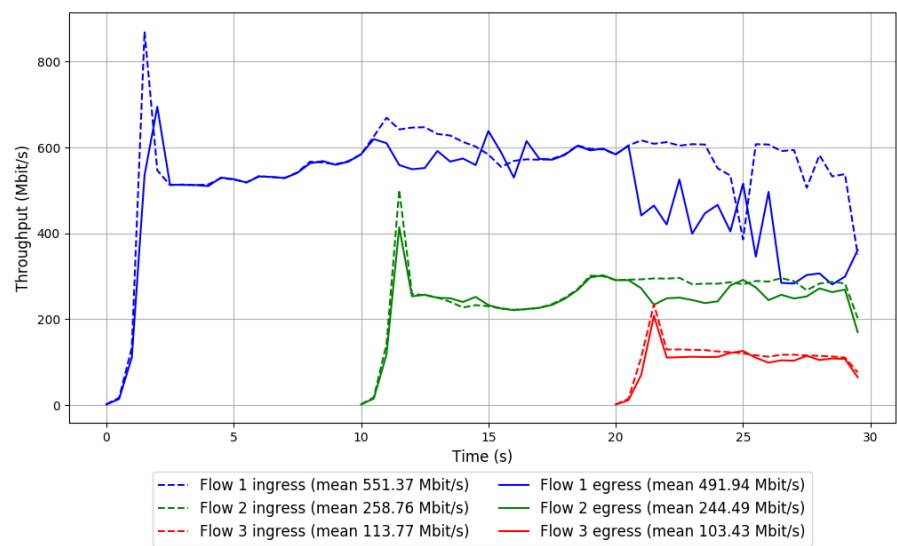


```
Run 1: Statistics of PCC

Start at: 2017-09-22 07:23:56
End at: 2017-09-22 07:24:26

# Below is generated by plot.py at 2017-09-22 12:02:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 687.98 Mbit/s
95th percentile per-packet one-way delay: 263.282 ms
Loss rate: 9.88%
-- Flow 1:
Average throughput: 491.94 Mbit/s
95th percentile per-packet one-way delay: 289.385 ms
Loss rate: 11.08%
-- Flow 2:
Average throughput: 244.49 Mbit/s
95th percentile per-packet one-way delay: 141.706 ms
Loss rate: 5.98%
-- Flow 3:
Average throughput: 103.43 Mbit/s
95th percentile per-packet one-way delay: 143.591 ms
Loss rate: 10.04%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-09-22 07:36:36

End at: 2017-09-22 07:37:06

Below is generated by plot.py at 2017-09-22 12:02:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 521.64 Mbit/s

95th percentile per-packet one-way delay: 245.690 ms

Loss rate: 20.33%

-- Flow 1:

Average throughput: 508.98 Mbit/s

95th percentile per-packet one-way delay: 246.217 ms

Loss rate: 20.67%

-- Flow 2:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 153.764 ms

Loss rate: 3.72%

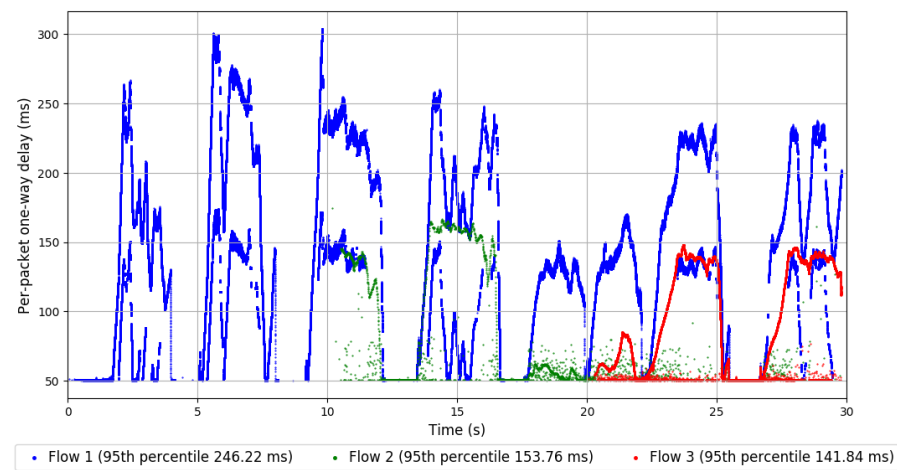
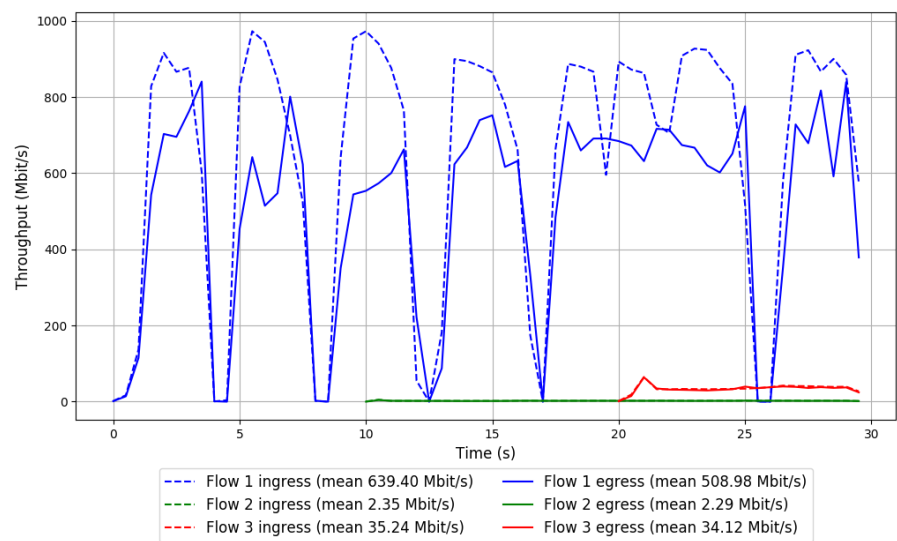
-- Flow 3:

Average throughput: 34.12 Mbit/s

95th percentile per-packet one-way delay: 141.836 ms

Loss rate: 4.18%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-09-22 07:49:09

End at: 2017-09-22 07:49:39

Below is generated by plot.py at 2017-09-22 12:03:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 695.32 Mbit/s

95th percentile per-packet one-way delay: 223.639 ms

Loss rate: 5.23%

-- Flow 1:

Average throughput: 485.65 Mbit/s

95th percentile per-packet one-way delay: 258.522 ms

Loss rate: 5.75%

-- Flow 2:

Average throughput: 288.17 Mbit/s

95th percentile per-packet one-way delay: 140.092 ms

Loss rate: 3.84%

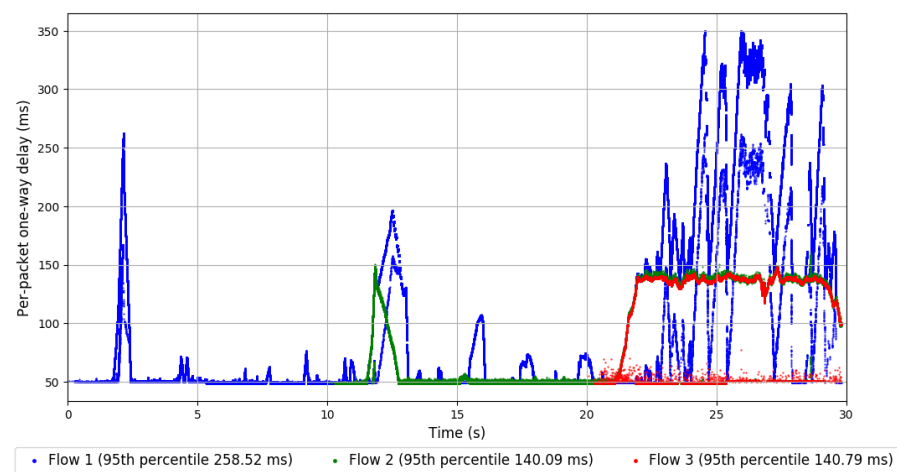
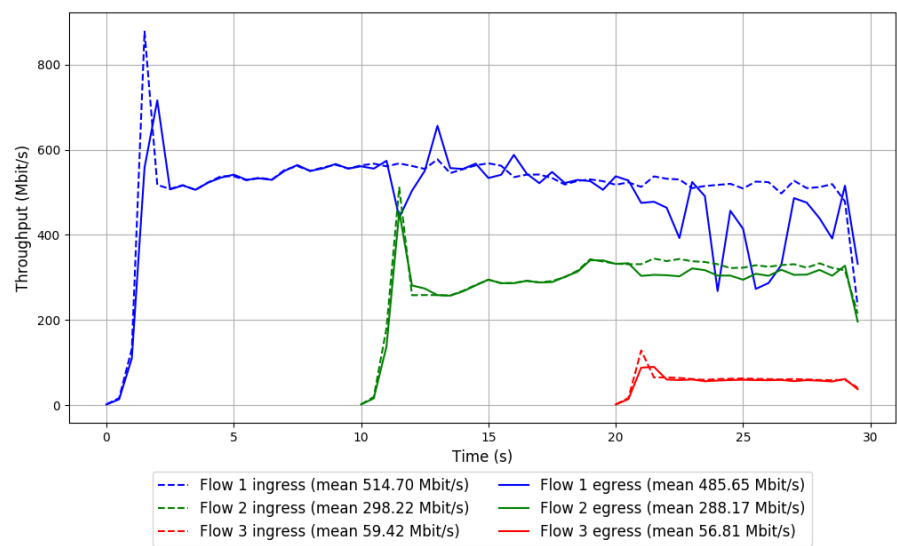
-- Flow 3:

Average throughput: 56.81 Mbit/s

95th percentile per-packet one-way delay: 140.793 ms

Loss rate: 5.40%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-09-22 08:02:08

End at: 2017-09-22 08:02:38

Below is generated by plot.py at 2017-09-22 12:03:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 687.94 Mbit/s

95th percentile per-packet one-way delay: 224.954 ms

Loss rate: 7.28%

-- Flow 1:

Average throughput: 498.55 Mbit/s

95th percentile per-packet one-way delay: 233.728 ms

Loss rate: 8.75%

-- Flow 2:

Average throughput: 230.39 Mbit/s

95th percentile per-packet one-way delay: 139.918 ms

Loss rate: 3.02%

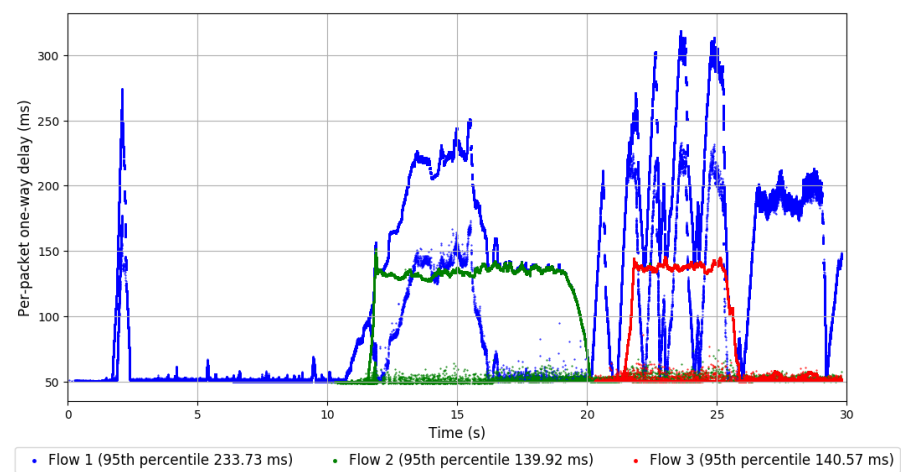
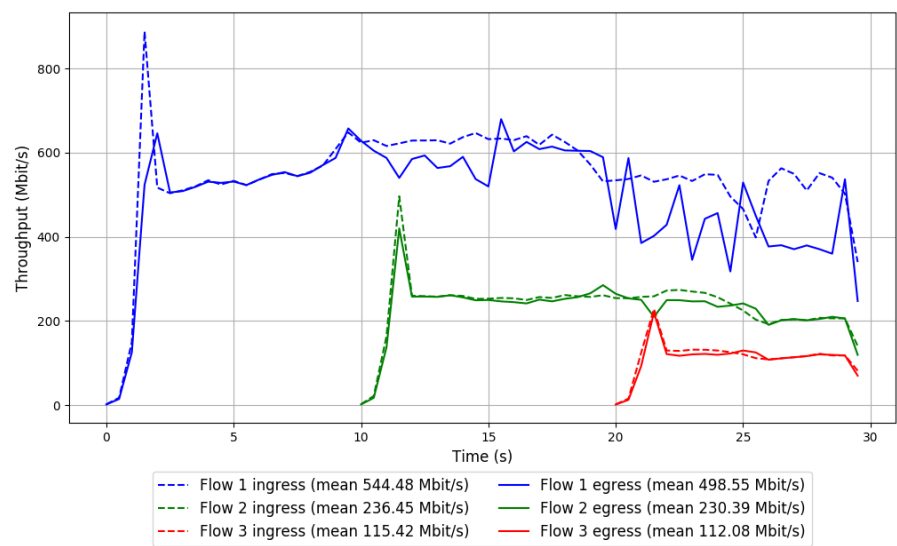
-- Flow 3:

Average throughput: 112.08 Mbit/s

95th percentile per-packet one-way delay: 140.574 ms

Loss rate: 3.91%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-09-22 08:15:02

End at: 2017-09-22 08:15:32

Below is generated by plot.py at 2017-09-22 12:03:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 656.95 Mbit/s

95th percentile per-packet one-way delay: 209.410 ms

Loss rate: 7.17%

-- Flow 1:

Average throughput: 560.22 Mbit/s

95th percentile per-packet one-way delay: 215.172 ms

Loss rate: 8.12%

-- Flow 2:

Average throughput: 130.69 Mbit/s

95th percentile per-packet one-way delay: 131.293 ms

Loss rate: 0.69%

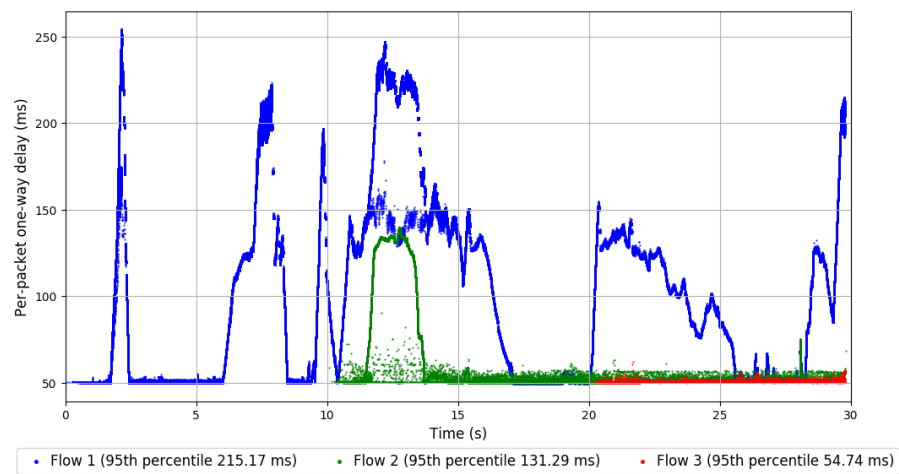
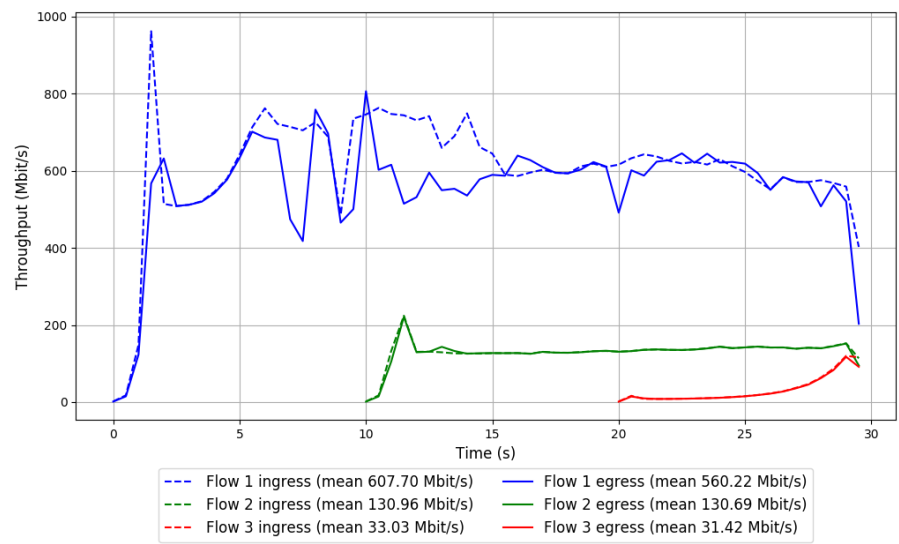
-- Flow 3:

Average throughput: 31.42 Mbit/s

95th percentile per-packet one-way delay: 54.737 ms

Loss rate: 5.85%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-09-22 08:27:37

End at: 2017-09-22 08:28:07

Below is generated by plot.py at 2017-09-22 12:04:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 712.93 Mbit/s

95th percentile per-packet one-way delay: 195.974 ms

Loss rate: 7.48%

-- Flow 1:

Average throughput: 556.15 Mbit/s

95th percentile per-packet one-way delay: 203.340 ms

Loss rate: 7.73%

-- Flow 2:

Average throughput: 235.30 Mbit/s

95th percentile per-packet one-way delay: 143.362 ms

Loss rate: 6.56%

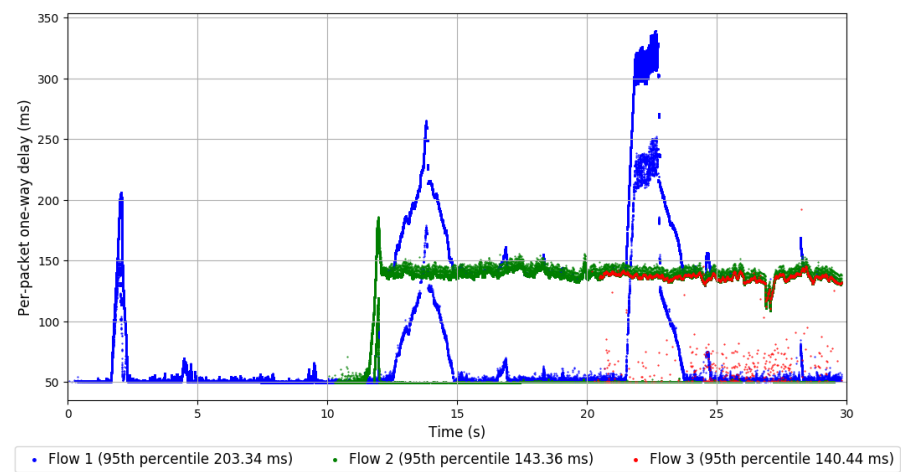
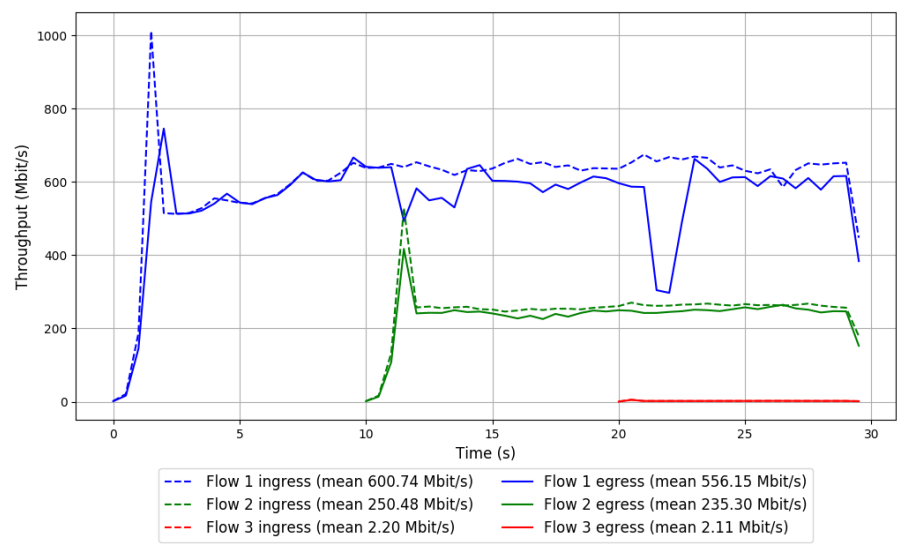
-- Flow 3:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 140.438 ms

Loss rate: 5.63%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-09-22 08:40:17

End at: 2017-09-22 08:40:47

Below is generated by plot.py at 2017-09-22 12:04:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 660.41 Mbit/s

95th percentile per-packet one-way delay: 225.555 ms

Loss rate: 8.61%

-- Flow 1:

Average throughput: 539.37 Mbit/s

95th percentile per-packet one-way delay: 231.666 ms

Loss rate: 10.08%

-- Flow 2:

Average throughput: 124.51 Mbit/s

95th percentile per-packet one-way delay: 136.460 ms

Loss rate: 1.08%

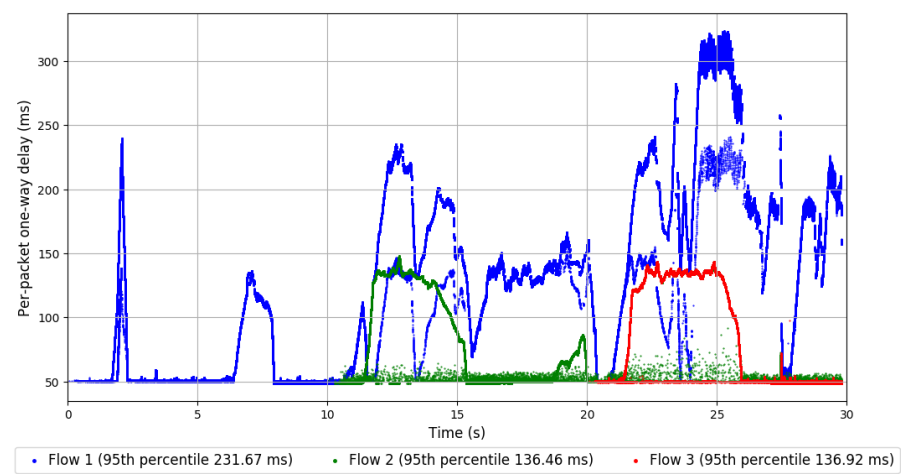
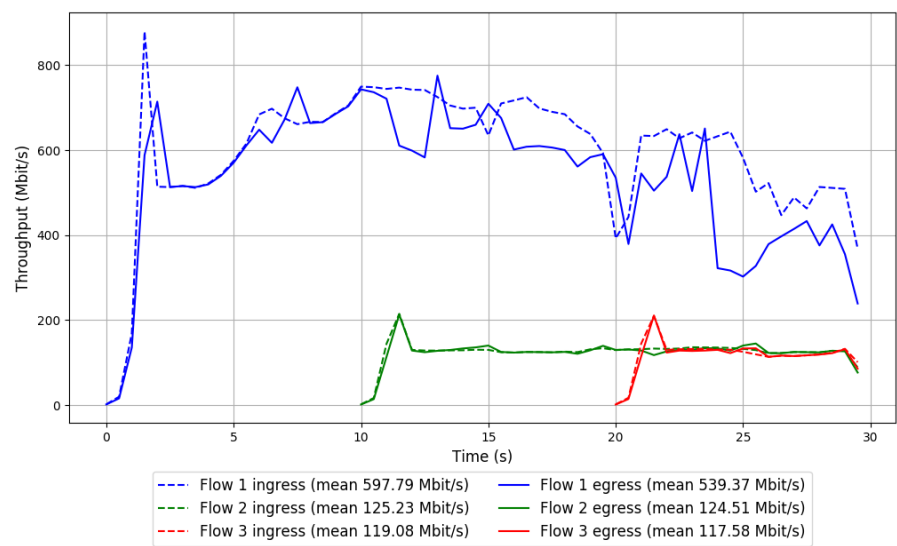
-- Flow 3:

Average throughput: 117.58 Mbit/s

95th percentile per-packet one-way delay: 136.919 ms

Loss rate: 2.27%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-09-22 08:53:08

End at: 2017-09-22 08:53:38

Below is generated by plot.py at 2017-09-22 12:06:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 688.56 Mbit/s

95th percentile per-packet one-way delay: 236.920 ms

Loss rate: 7.47%

-- Flow 1:

Average throughput: 515.81 Mbit/s

95th percentile per-packet one-way delay: 249.178 ms

Loss rate: 8.47%

-- Flow 2:

Average throughput: 232.99 Mbit/s

95th percentile per-packet one-way delay: 139.243 ms

Loss rate: 4.21%

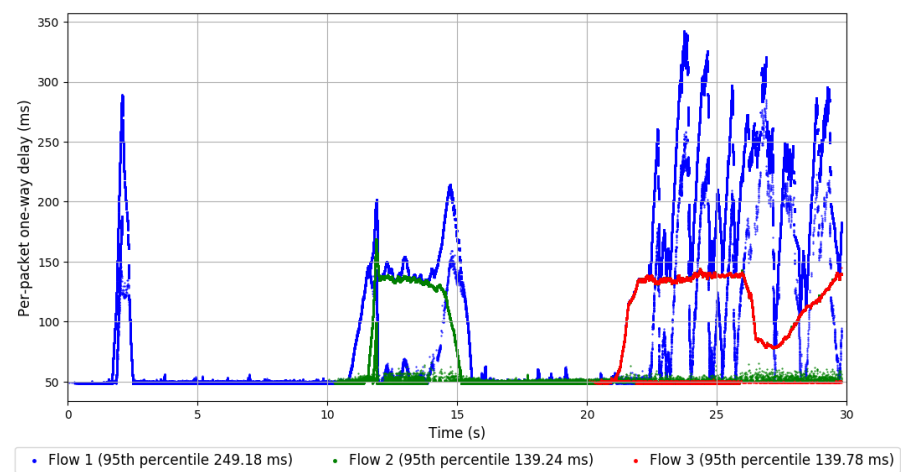
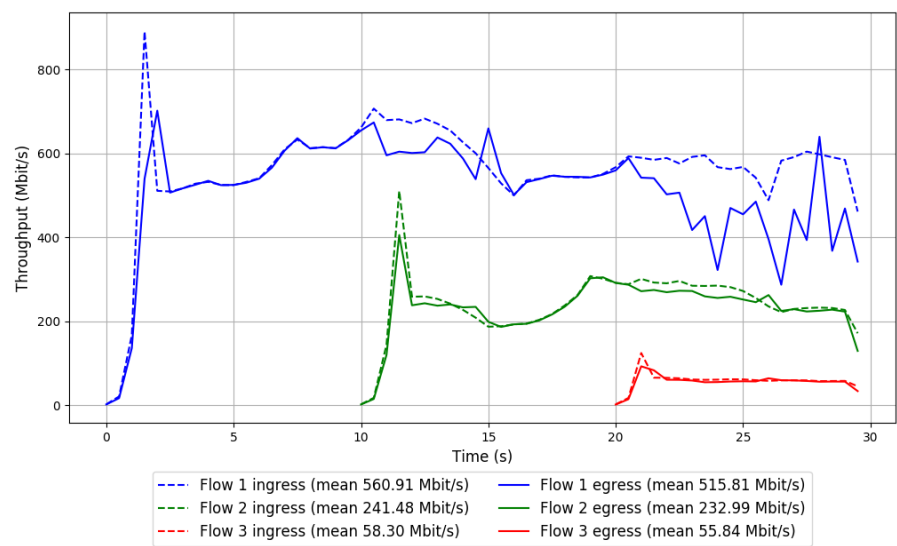
-- Flow 3:

Average throughput: 55.84 Mbit/s

95th percentile per-packet one-way delay: 139.785 ms

Loss rate: 5.54%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-09-22 09:05:52

End at: 2017-09-22 09:06:22

Below is generated by plot.py at 2017-09-22 12:14:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 699.13 Mbit/s

95th percentile per-packet one-way delay: 149.958 ms

Loss rate: 3.03%

-- Flow 1:

Average throughput: 540.21 Mbit/s

95th percentile per-packet one-way delay: 162.560 ms

Loss rate: 3.70%

-- Flow 2:

Average throughput: 207.75 Mbit/s

95th percentile per-packet one-way delay: 110.722 ms

Loss rate: 0.64%

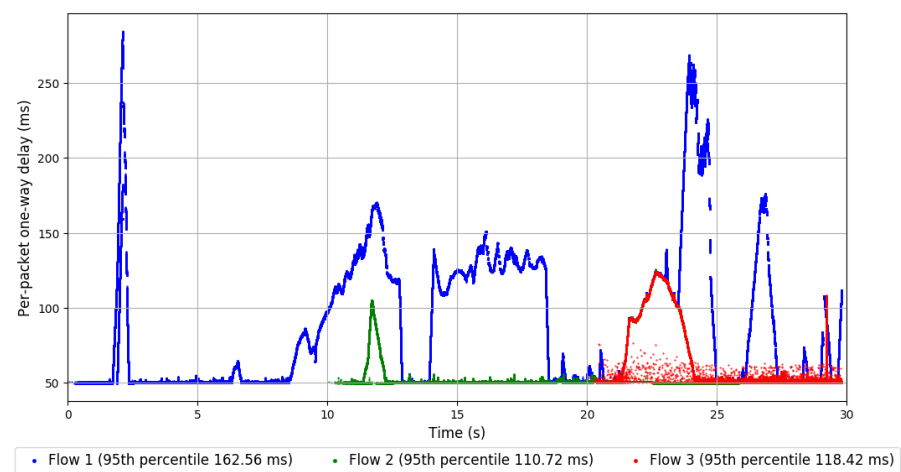
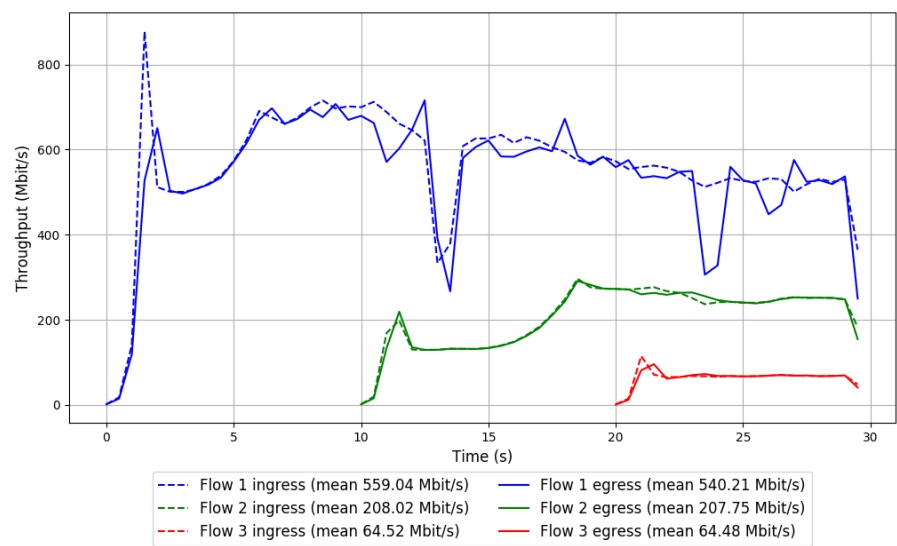
-- Flow 3:

Average throughput: 64.48 Mbit/s

95th percentile per-packet one-way delay: 118.419 ms

Loss rate: 1.12%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-09-22 09:18:33

End at: 2017-09-22 09:19:03

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 686.10 Mbit/s

95th percentile per-packet one-way delay: 220.396 ms

Loss rate: 4.05%

-- Flow 1:

Average throughput: 506.38 Mbit/s

95th percentile per-packet one-way delay: 225.220 ms

Loss rate: 4.77%

-- Flow 2:

Average throughput: 255.13 Mbit/s

95th percentile per-packet one-way delay: 138.959 ms

Loss rate: 1.94%

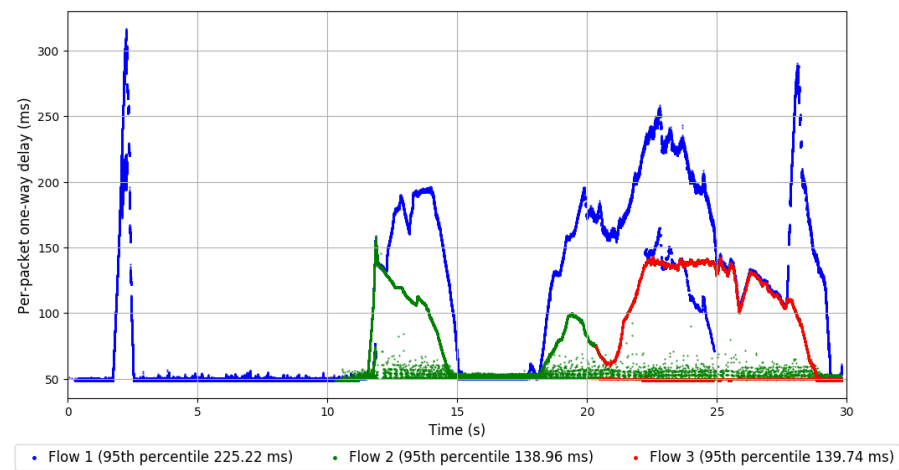
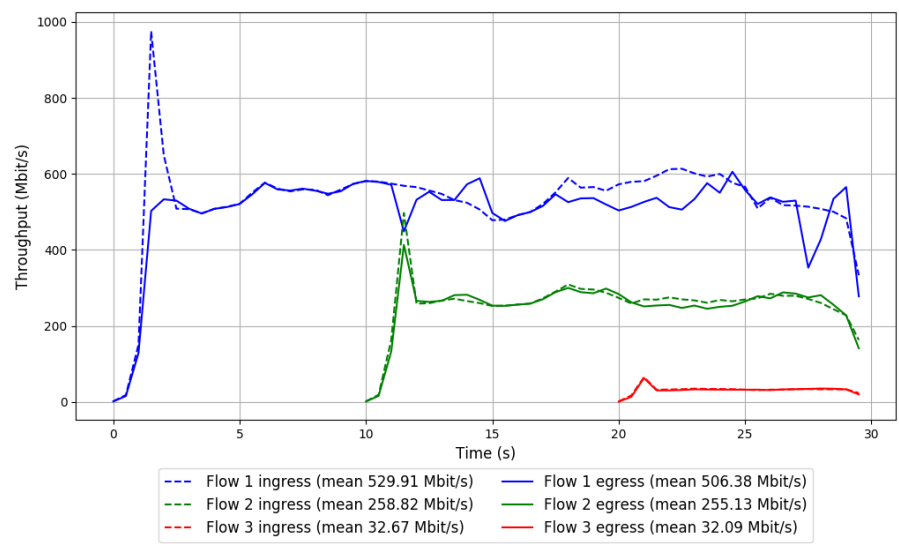
-- Flow 3:

Average throughput: 32.09 Mbit/s

95th percentile per-packet one-way delay: 139.742 ms

Loss rate: 2.76%

Run 10: Report of PCC — Data Link

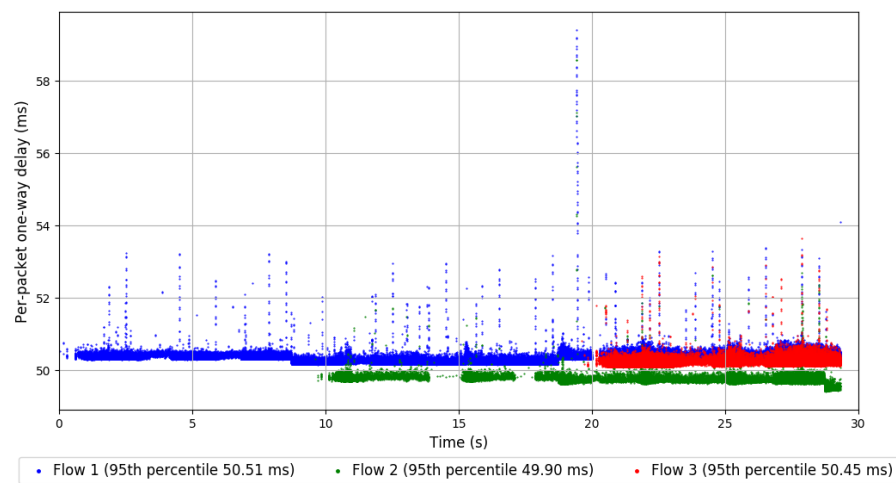
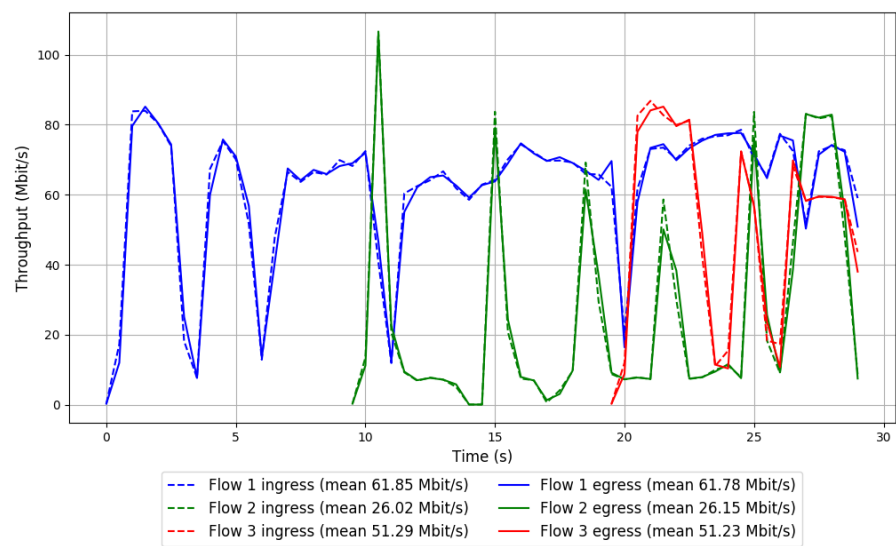


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-09-22 07:25:05
End at: 2017-09-22 07:25:35

# Below is generated by plot.py at 2017-09-22 12:16:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.38 Mbit/s
95th percentile per-packet one-way delay: 50.486 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 61.78 Mbit/s
95th percentile per-packet one-way delay: 50.507 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 26.15 Mbit/s
95th percentile per-packet one-way delay: 49.903 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 51.23 Mbit/s
95th percentile per-packet one-way delay: 50.451 ms
Loss rate: 1.14%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-09-22 07:37:40

End at: 2017-09-22 07:38:10

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.13 Mbit/s

95th percentile per-packet one-way delay: 50.358 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 33.91 Mbit/s

95th percentile per-packet one-way delay: 49.836 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 27.29 Mbit/s

95th percentile per-packet one-way delay: 50.432 ms

Loss rate: 1.15%

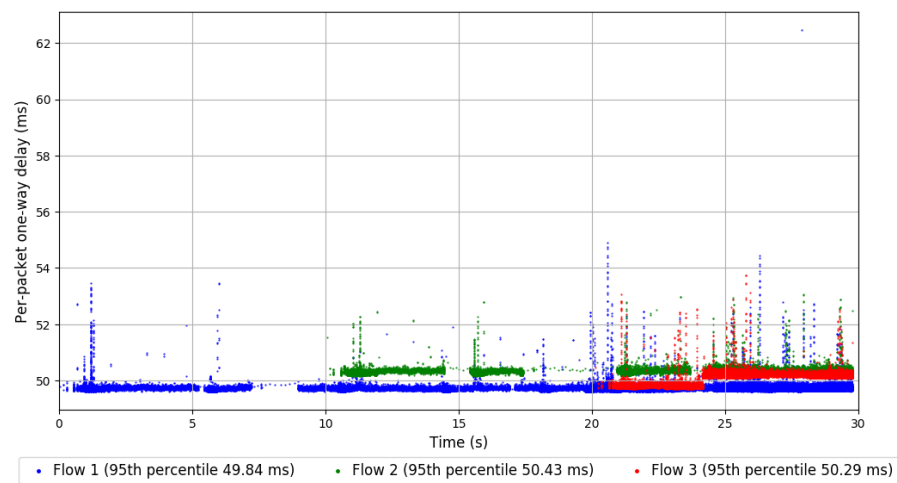
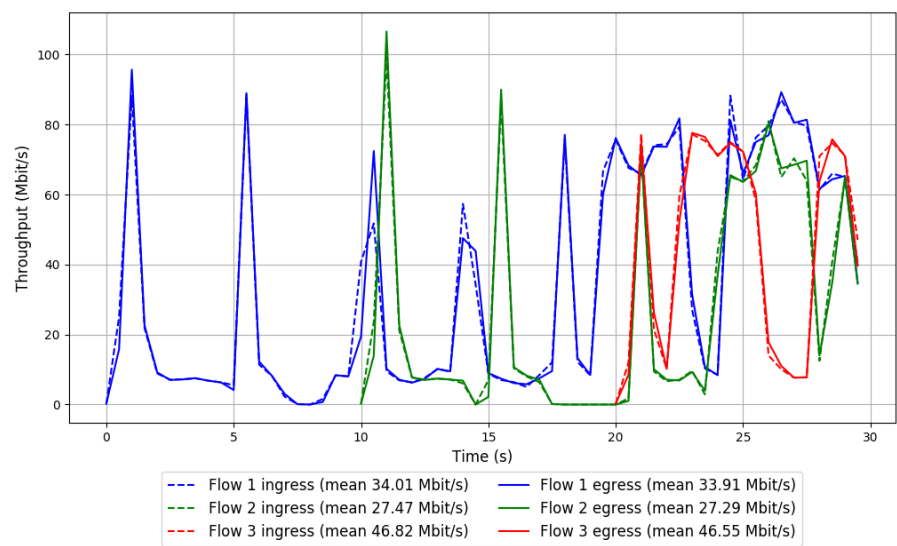
-- Flow 3:

Average throughput: 46.55 Mbit/s

95th percentile per-packet one-way delay: 50.288 ms

Loss rate: 1.59%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-09-22 07:50:17

End at: 2017-09-22 07:50:47

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.13 Mbit/s

95th percentile per-packet one-way delay: 50.667 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 42.39 Mbit/s

95th percentile per-packet one-way delay: 50.213 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 63.80 Mbit/s

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

Loss rate: 0.50%

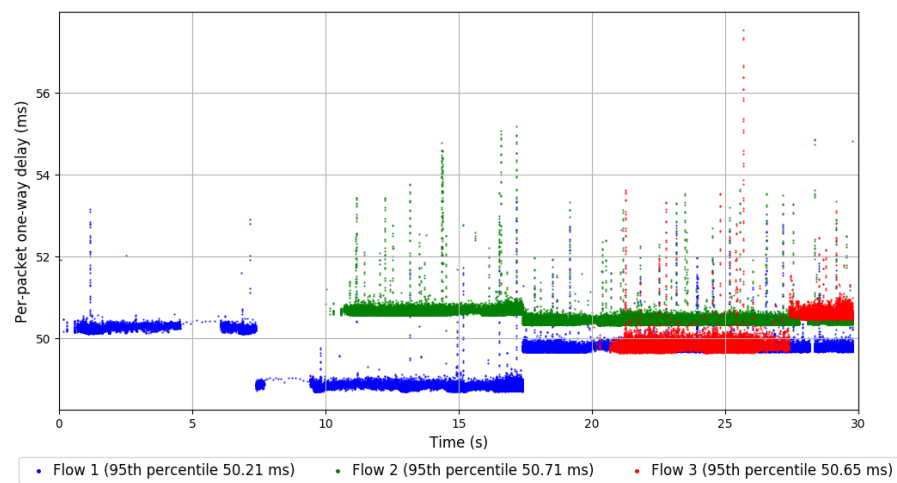
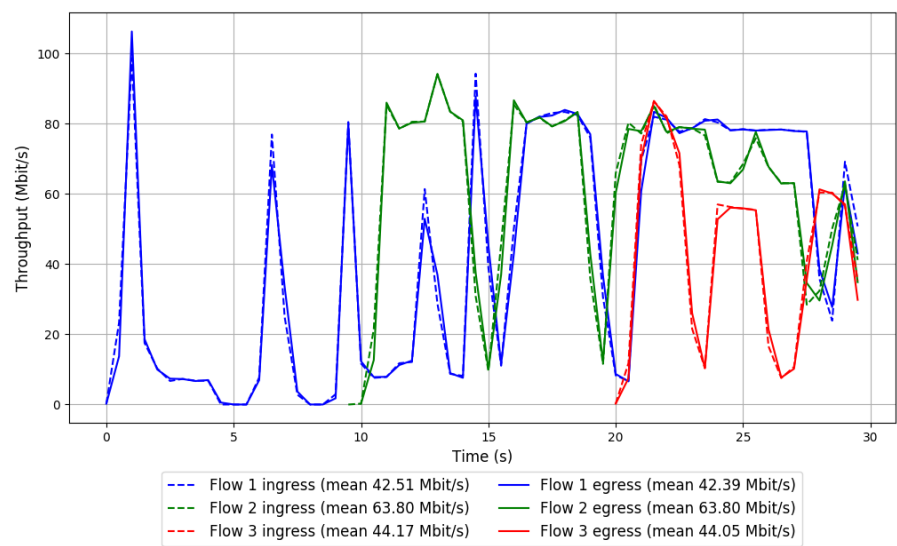
-- Flow 3:

Average throughput: 44.05 Mbit/s

95th percentile per-packet one-way delay: 50.648 ms

Loss rate: 1.25%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-09-22 08:03:16

End at: 2017-09-22 08:03:46

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.91 Mbit/s

95th percentile per-packet one-way delay: 50.728 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 39.31 Mbit/s

95th percentile per-packet one-way delay: 50.691 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 55.71 Mbit/s

95th percentile per-packet one-way delay: 50.666 ms

Loss rate: 0.60%

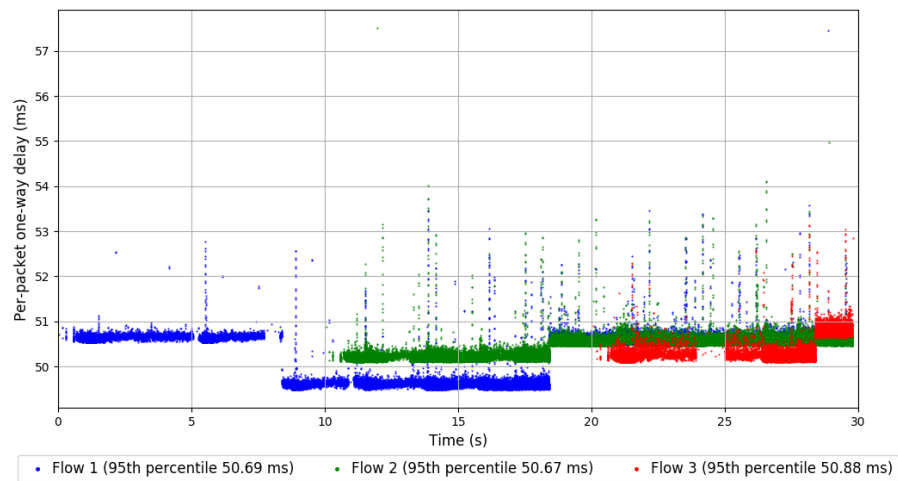
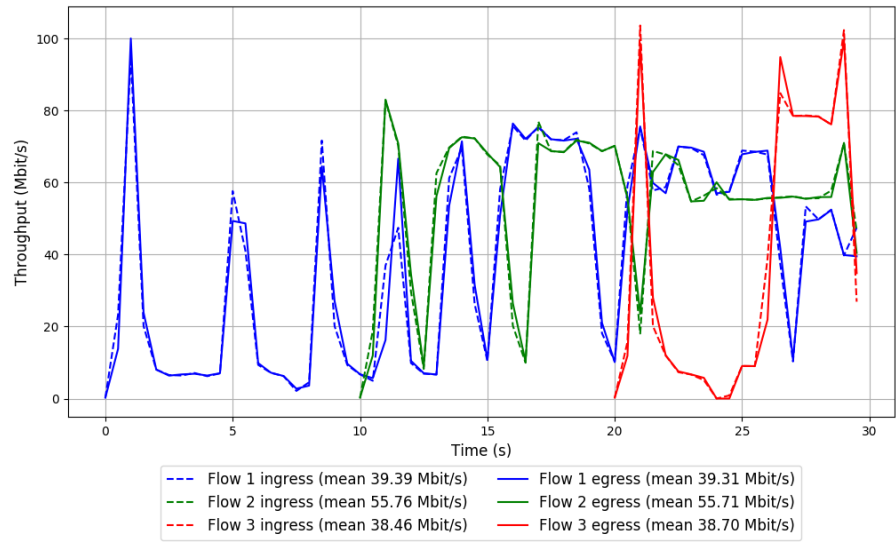
-- Flow 3:

Average throughput: 38.70 Mbit/s

95th percentile per-packet one-way delay: 50.879 ms

Loss rate: 0.38%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-09-22 08:16:09

End at: 2017-09-22 08:16:39

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.68 Mbit/s

95th percentile per-packet one-way delay: 50.609 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 31.43 Mbit/s

95th percentile per-packet one-way delay: 50.656 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 17.41 Mbit/s

95th percentile per-packet one-way delay: 50.556 ms

Loss rate: 0.22%

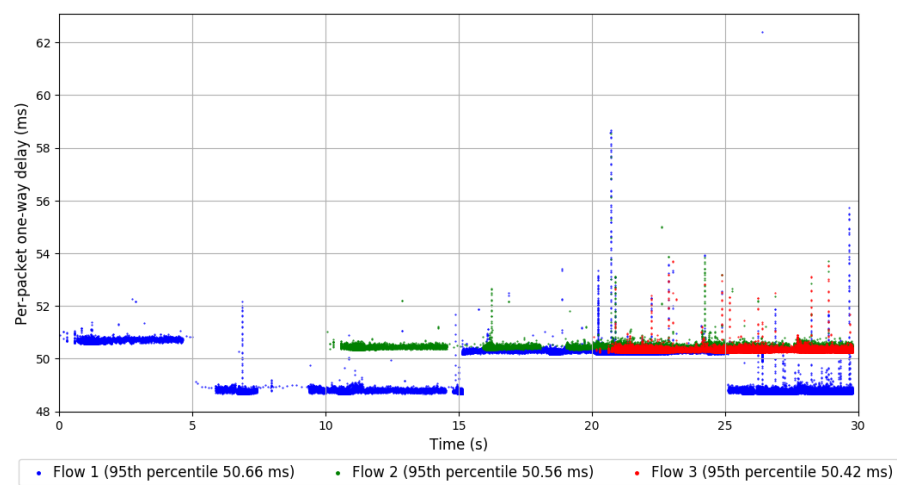
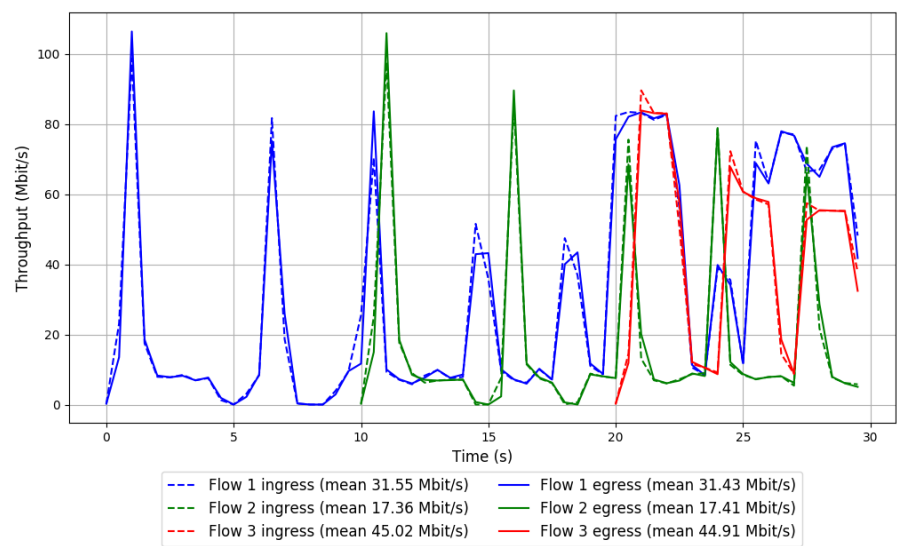
-- Flow 3:

Average throughput: 44.91 Mbit/s

95th percentile per-packet one-way delay: 50.423 ms

Loss rate: 1.25%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-09-22 08:28:46

End at: 2017-09-22 08:29:16

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.23 Mbit/s

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

Loss rate: 0.53%

-- Flow 1:

Average throughput: 67.02 Mbit/s

95th percentile per-packet one-way delay: 50.410 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 26.06 Mbit/s

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

Loss rate: 1.45%

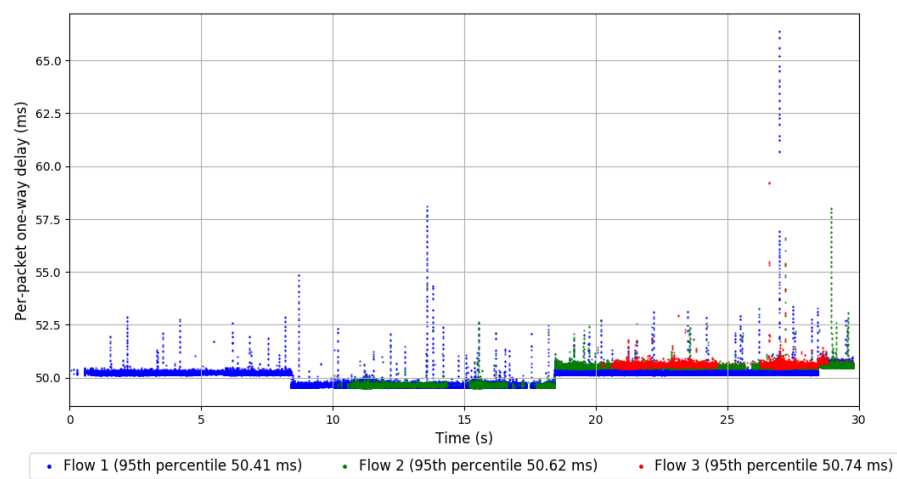
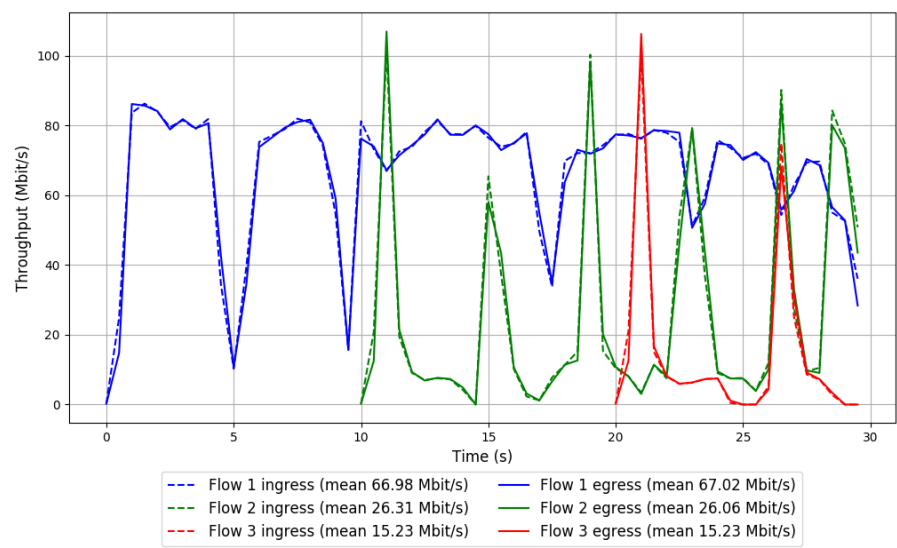
-- Flow 3:

Average throughput: 15.23 Mbit/s

95th percentile per-packet one-way delay: 50.737 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-09-22 08:41:24

End at: 2017-09-22 08:41:54

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.78 Mbit/s

95th percentile per-packet one-way delay: 50.723 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 51.30 Mbit/s

95th percentile per-packet one-way delay: 50.351 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 39.78 Mbit/s

95th percentile per-packet one-way delay: 50.772 ms

Loss rate: 1.03%

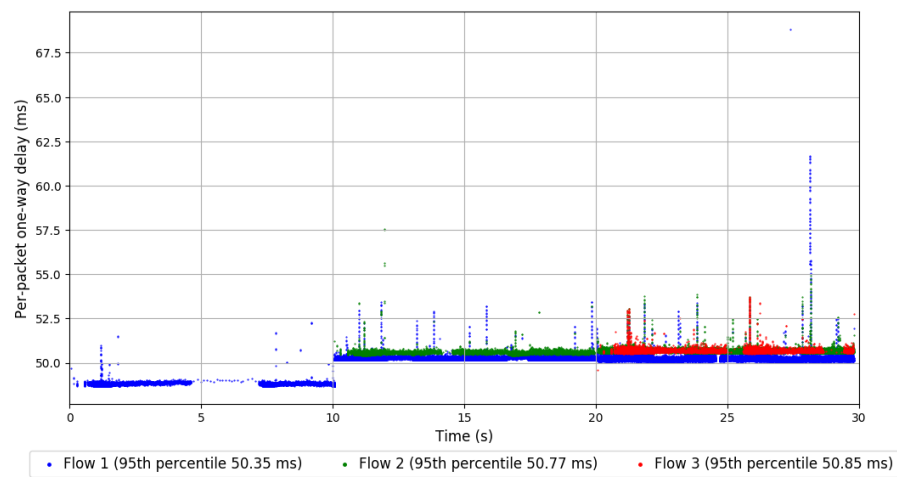
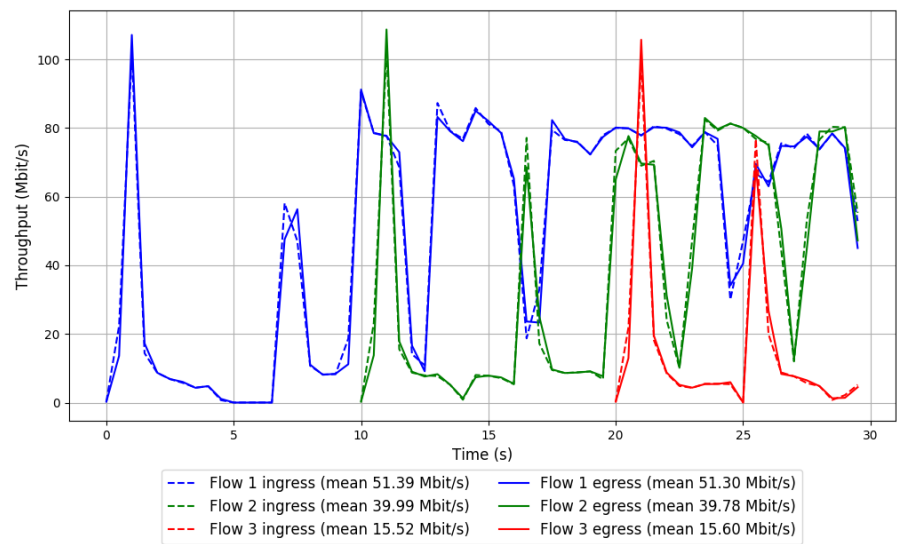
-- Flow 3:

Average throughput: 15.60 Mbit/s

95th percentile per-packet one-way delay: 50.850 ms

Loss rate: 0.49%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-09-22 08:54:17

End at: 2017-09-22 08:54:47

Run 8: Report of QUIC Cubic — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of QUIC Cubic

Start at: 2017-09-22 09:07:00

End at: 2017-09-22 09:07:30

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.38 Mbit/s

95th percentile per-packet one-way delay: 50.804 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 33.03 Mbit/s

95th percentile per-packet one-way delay: 50.882 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 67.00 Mbit/s

95th percentile per-packet one-way delay: 50.252 ms

Loss rate: 0.61%

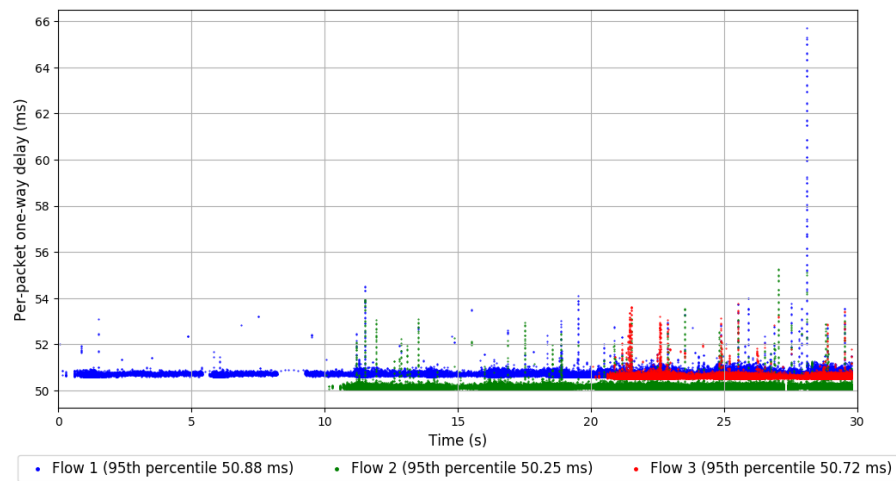
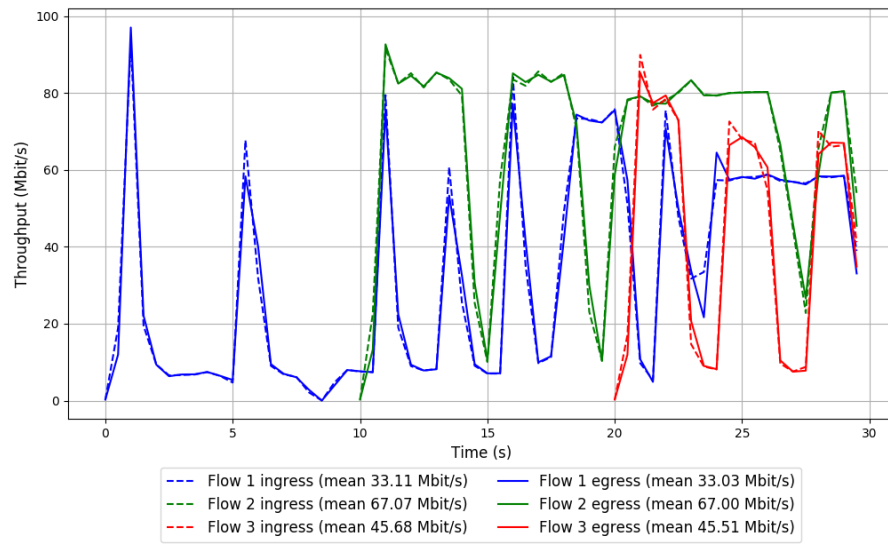
-- Flow 3:

Average throughput: 45.51 Mbit/s

95th percentile per-packet one-way delay: 50.719 ms

Loss rate: 1.40%

Run 9: Report of QUIC Cubic — Data Link

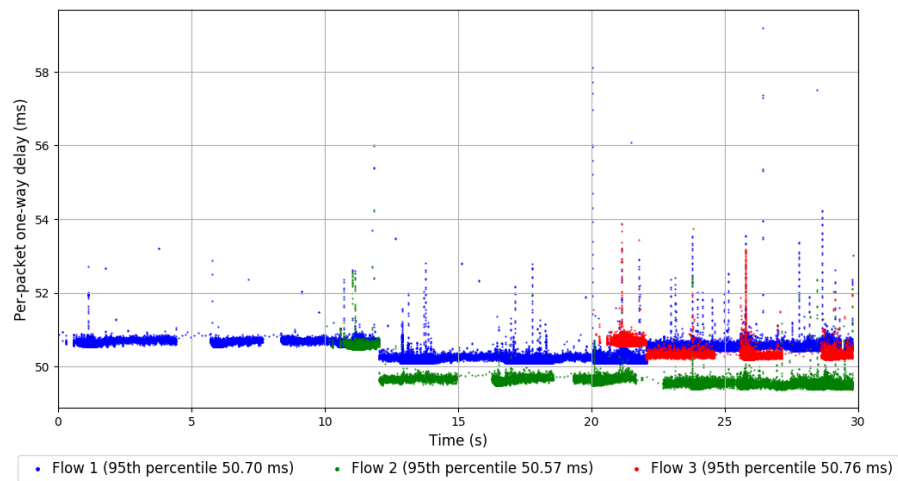
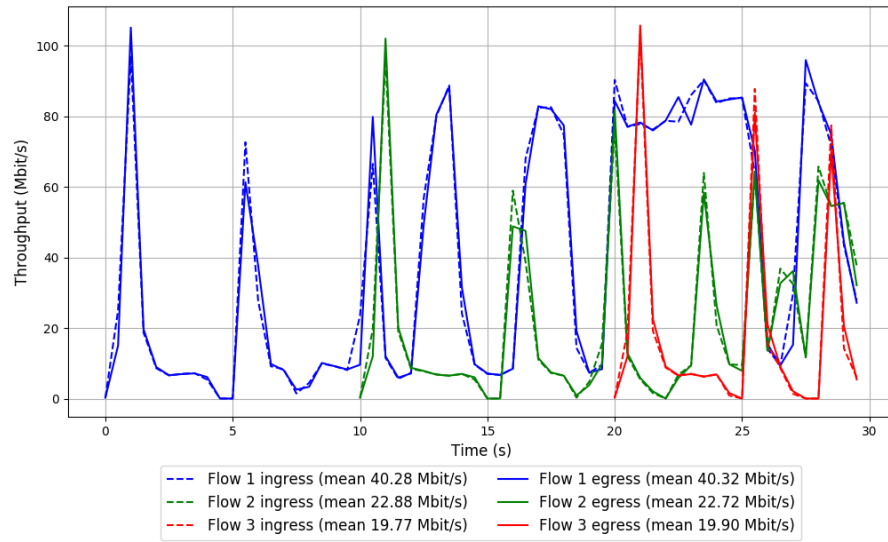


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-09-22 09:19:42
End at: 2017-09-22 09:20:12

# Below is generated by plot.py at 2017-09-22 12:16:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.89 Mbit/s
95th percentile per-packet one-way delay: 50.694 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 40.32 Mbit/s
95th percentile per-packet one-way delay: 50.703 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 22.72 Mbit/s
95th percentile per-packet one-way delay: 50.574 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 19.90 Mbit/s
95th percentile per-packet one-way delay: 50.764 ms
Loss rate: 0.42%
```

Run 10: Report of QUIC Cubic — Data Link

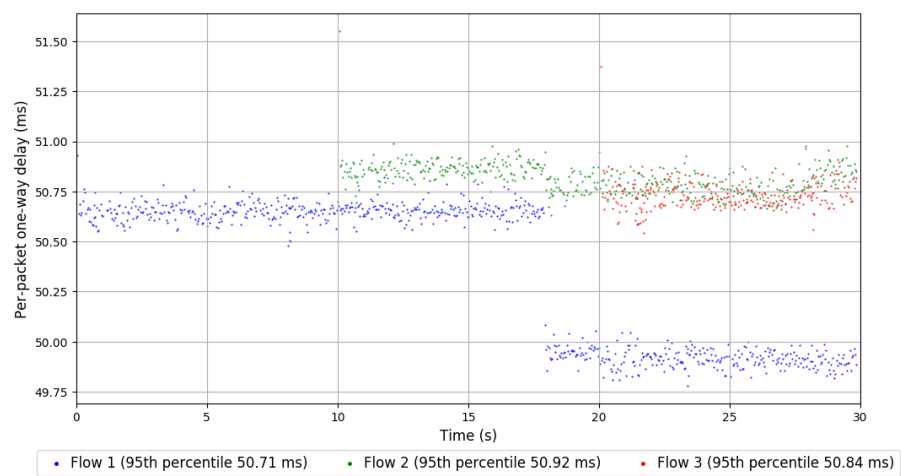
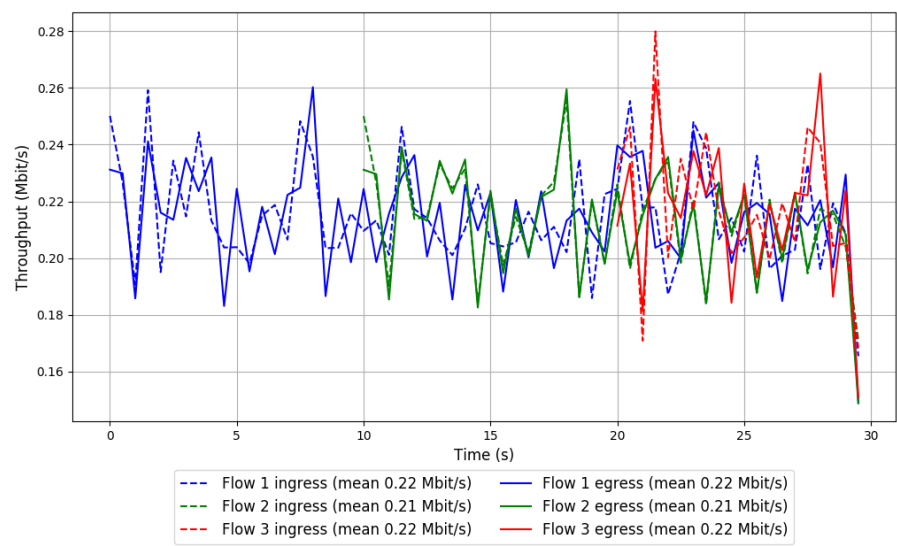


```
Run 1: Statistics of SCReAM

Start at: 2017-09-22 07:20:16
End at: 2017-09-22 07:20:46

# Below is generated by plot.py at 2017-09-22 12:16:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.887 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.710 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.916 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.839 ms
Loss rate: 0.76%
```

Run 1: Report of SReAM — Data Link

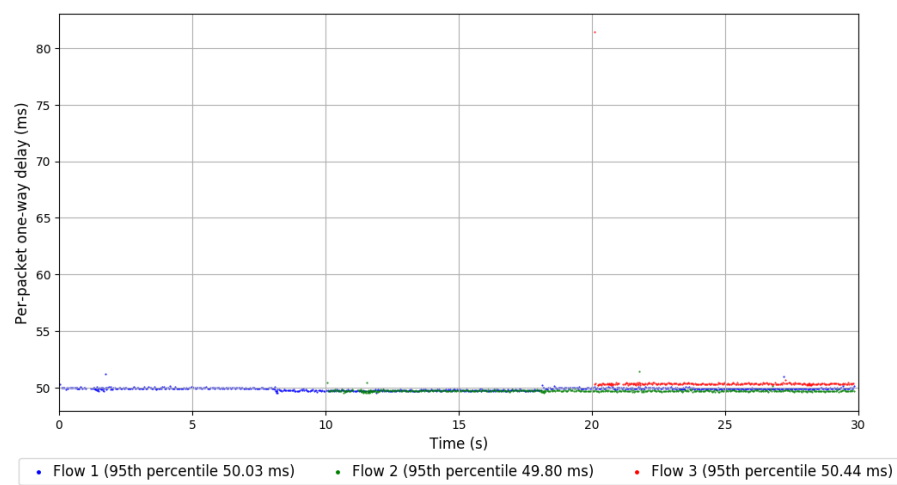
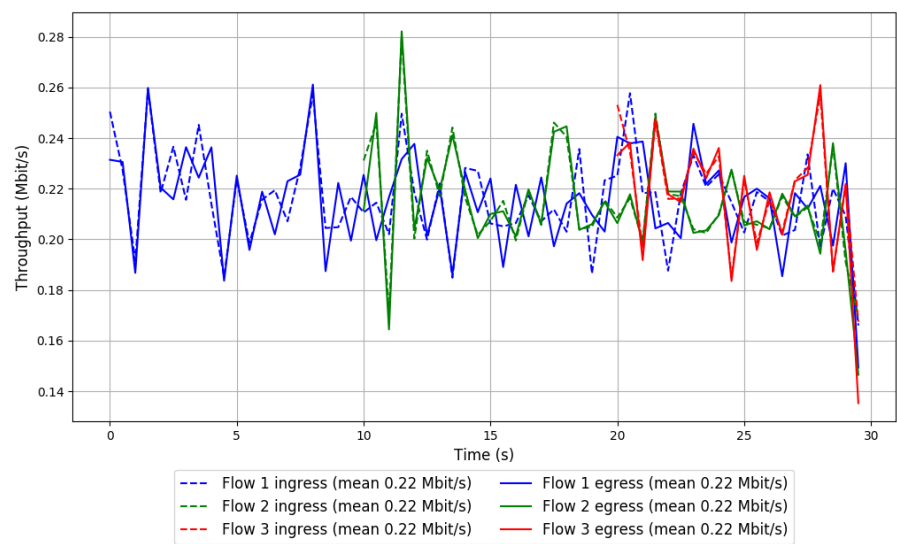


```
Run 2: Statistics of SReAM

Start at: 2017-09-22 07:33:06
End at: 2017-09-22 07:33:36

# Below is generated by plot.py at 2017-09-22 12:16:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.371 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.026 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.801 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.439 ms
Loss rate: 1.11%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-09-22 07:45:28

End at: 2017-09-22 07:45:58

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 51.082 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.738 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.112 ms

Loss rate: 0.63%

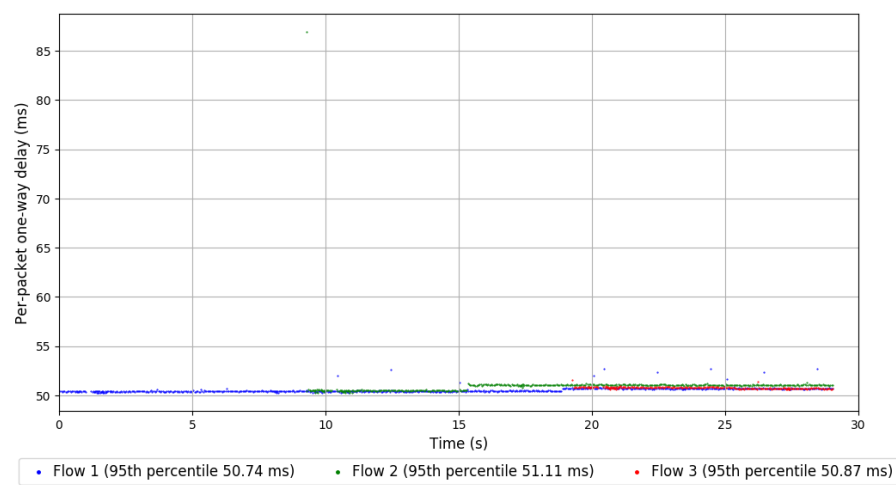
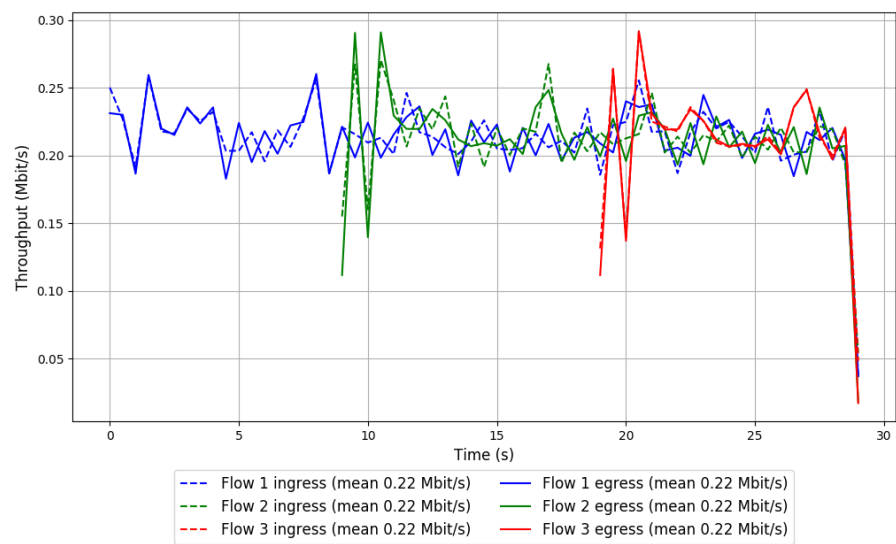
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.867 ms

Loss rate: 1.11%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2017-09-22 07:58:26

End at: 2017-09-22 07:58:56

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.851 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.864 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.737 ms

Loss rate: 0.42%

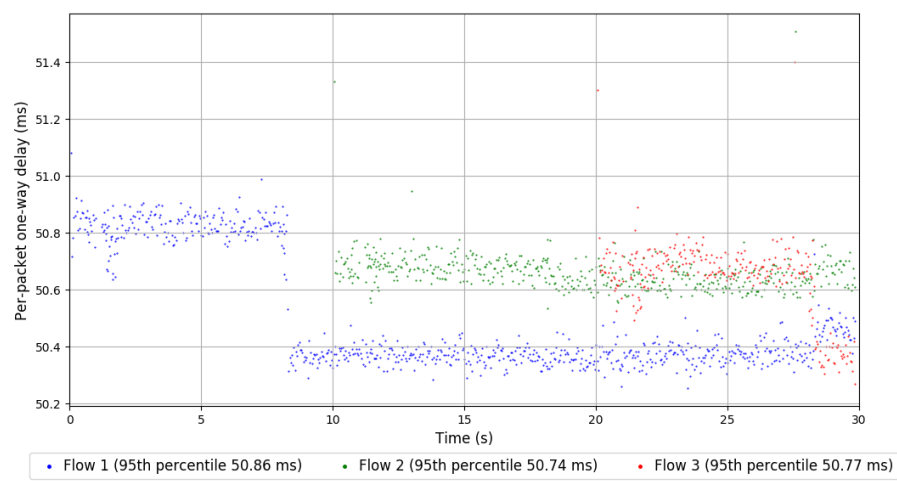
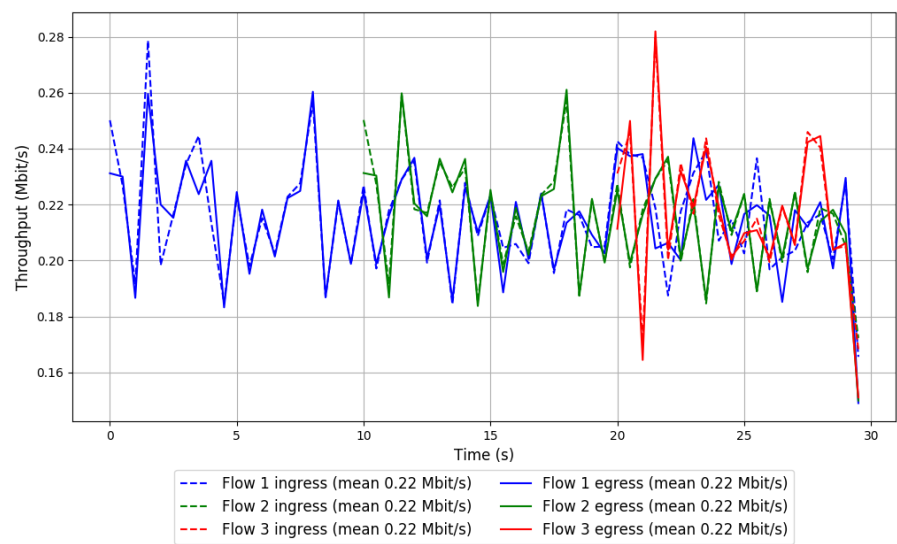
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.768 ms

Loss rate: 0.76%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2017-09-22 08:11:26

End at: 2017-09-22 08:11:56

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.895 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.927 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.876 ms

Loss rate: 0.63%

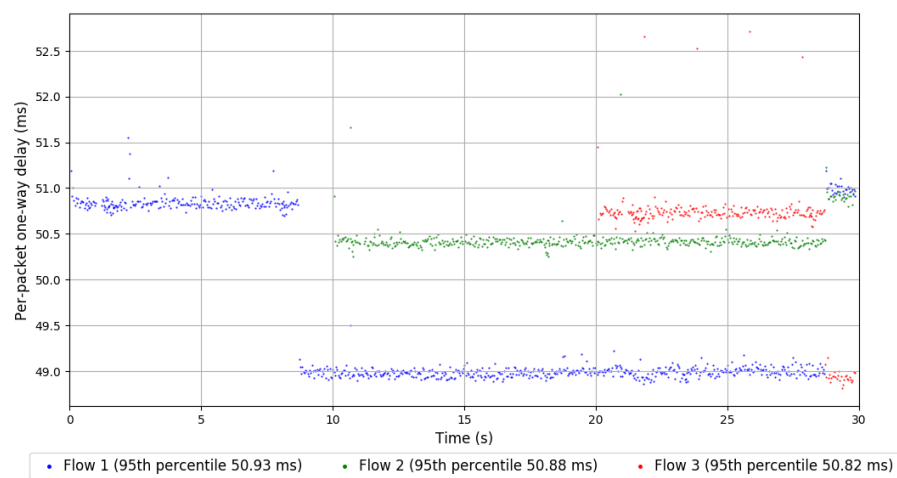
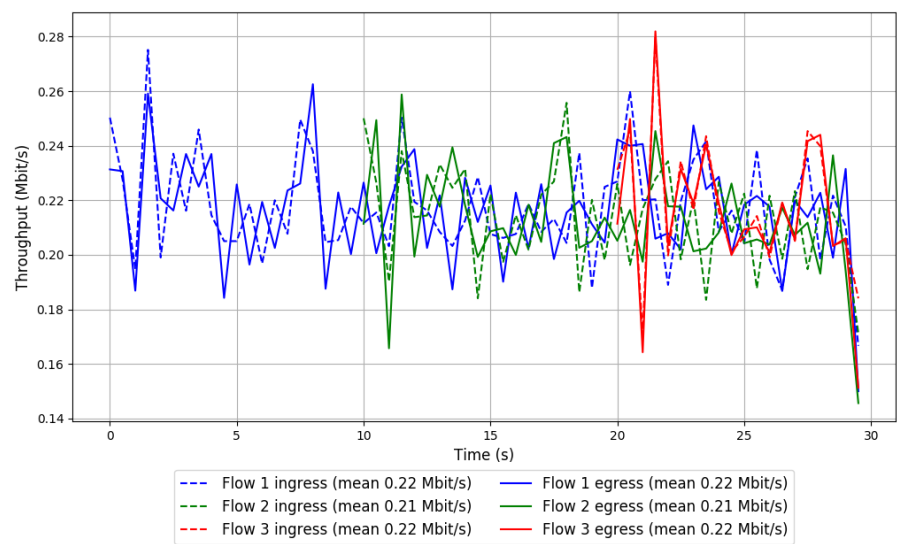
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.816 ms

Loss rate: 1.11%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-09-22 08:24:07

End at: 2017-09-22 08:24:37

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.889 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.408 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.746 ms

Loss rate: 0.42%

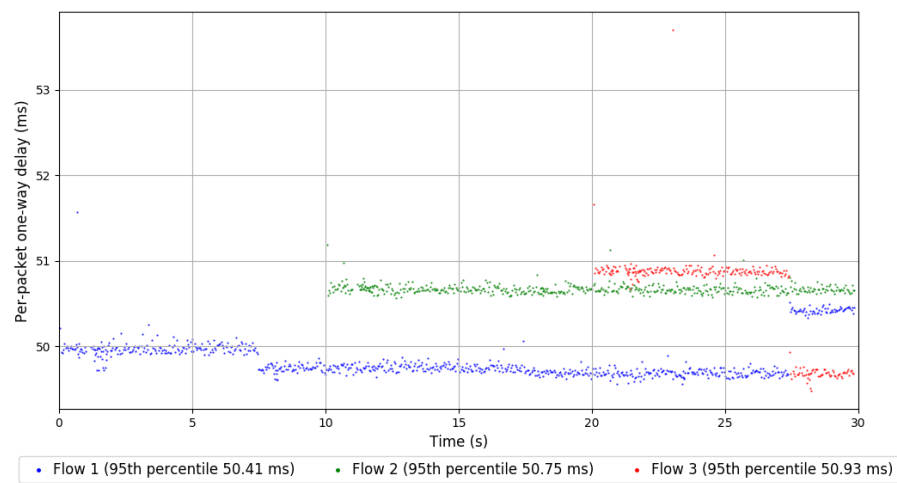
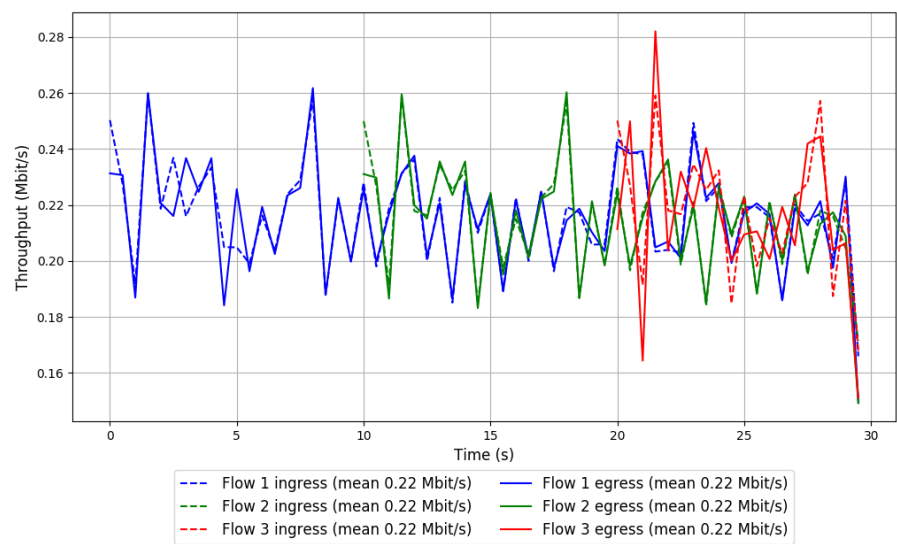
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.933 ms

Loss rate: 1.11%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2017-09-22 08:36:36

End at: 2017-09-22 08:37:06

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 50.918 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.937 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.531 ms

Loss rate: 0.42%

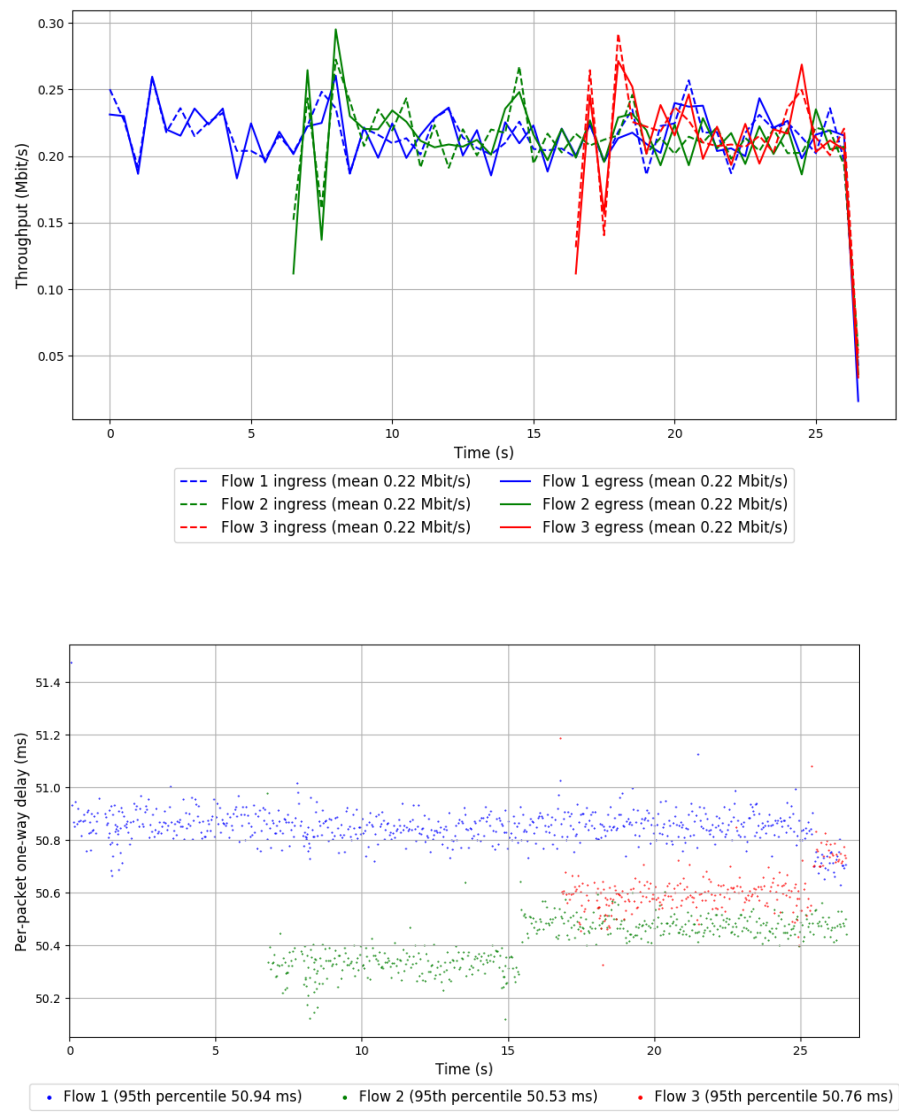
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.758 ms

Loss rate: 1.11%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-09-22 08:49:24

End at: 2017-09-22 08:49:54

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.800 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.818 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.426 ms

Loss rate: 0.63%

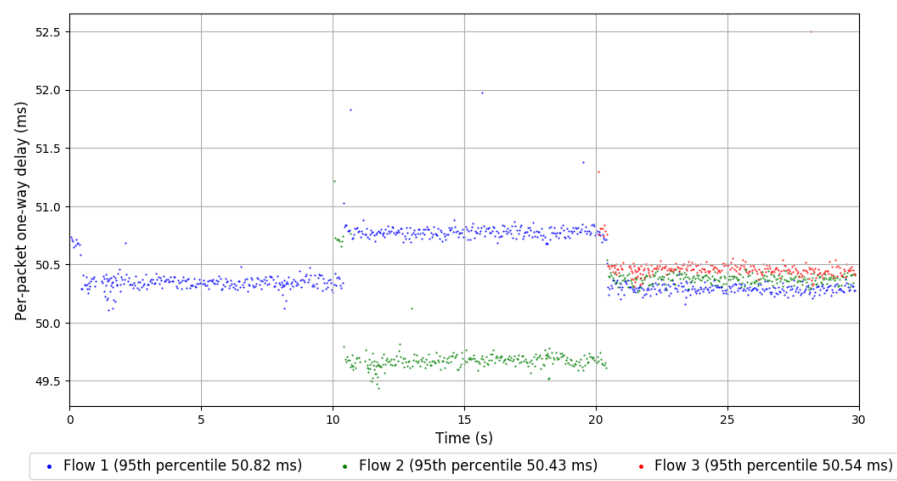
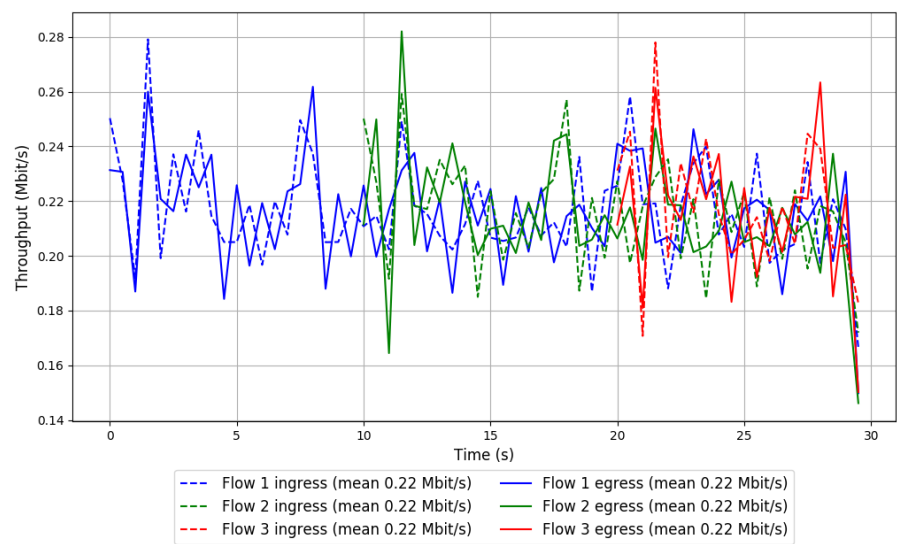
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.536 ms

Loss rate: 1.11%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-09-22 09:02:08

End at: 2017-09-22 09:02:38

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.767 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.657 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.651 ms

Loss rate: 0.42%

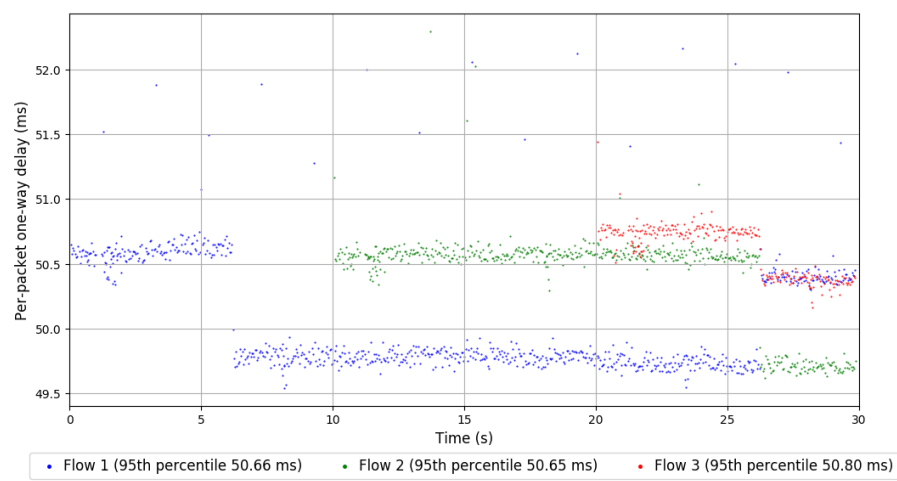
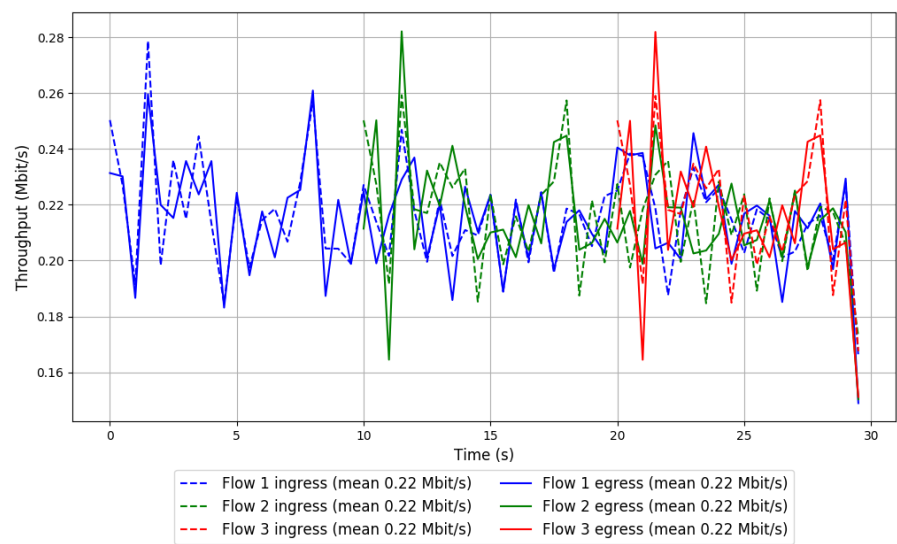
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.803 ms

Loss rate: 1.11%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-09-22 09:14:58

End at: 2017-09-22 09:15:28

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.870 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.810 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.902 ms

Loss rate: 0.42%

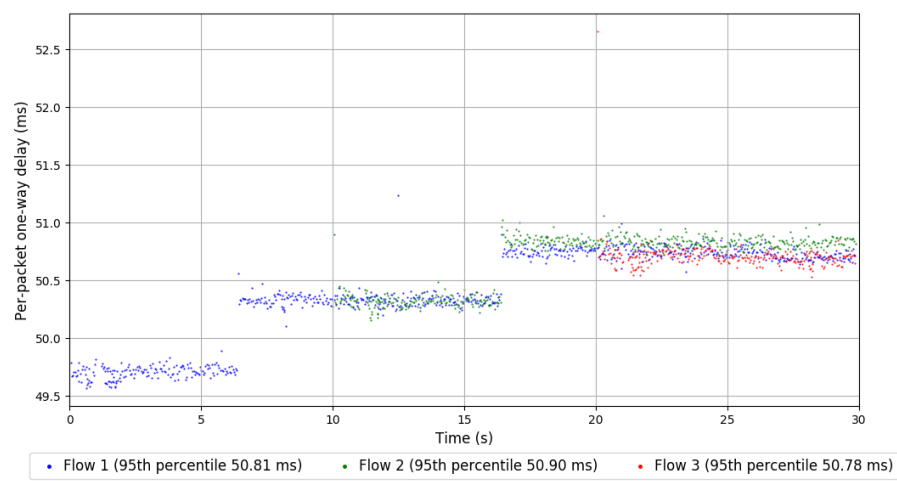
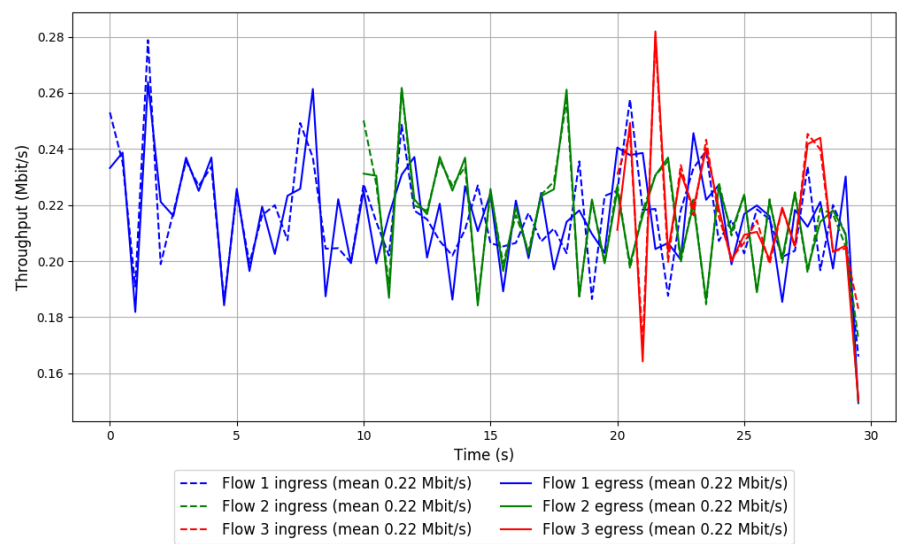
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.785 ms

Loss rate: 1.11%

Run 10: Report of SReAM — Data Link

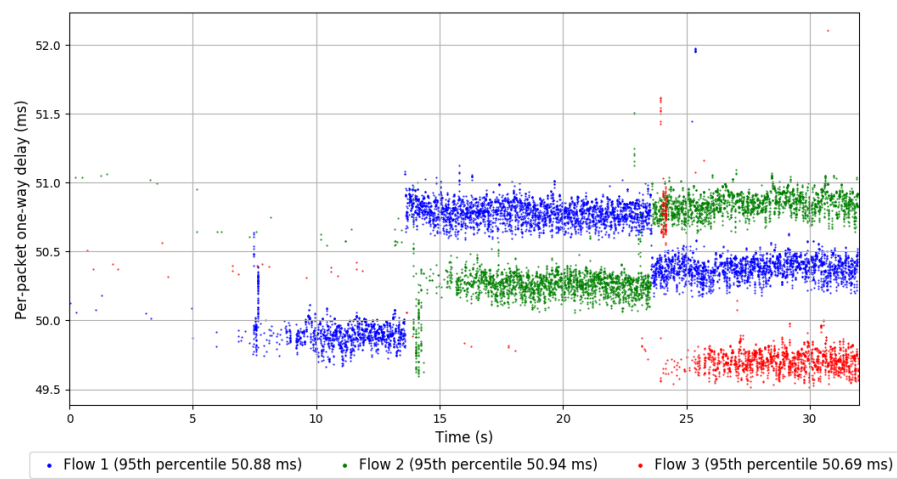
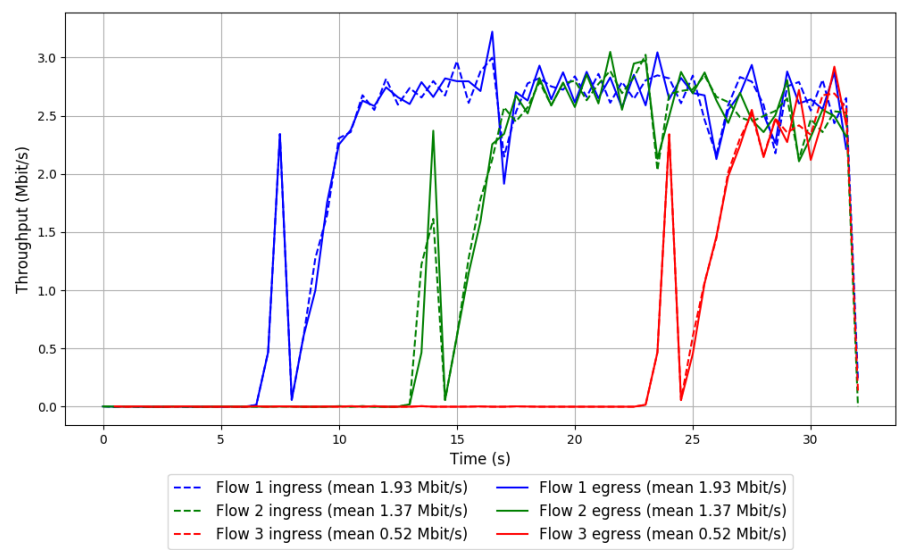


```
Run 1: Statistics of WebRTC media

Start at: 2017-09-22 07:16:33
End at: 2017-09-22 07:17:03

# Below is generated by plot.py at 2017-09-22 12:16:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.79 Mbit/s
95th percentile per-packet one-way delay: 50.911 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 50.878 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 1.37 Mbit/s
95th percentile per-packet one-way delay: 50.942 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 50.692 ms
Loss rate: 1.48%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-09-22 07:29:32

End at: 2017-09-22 07:30:02

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.08 Mbit/s

95th percentile per-packet one-way delay: 50.786 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 50.793 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 50.774 ms

Loss rate: 0.62%

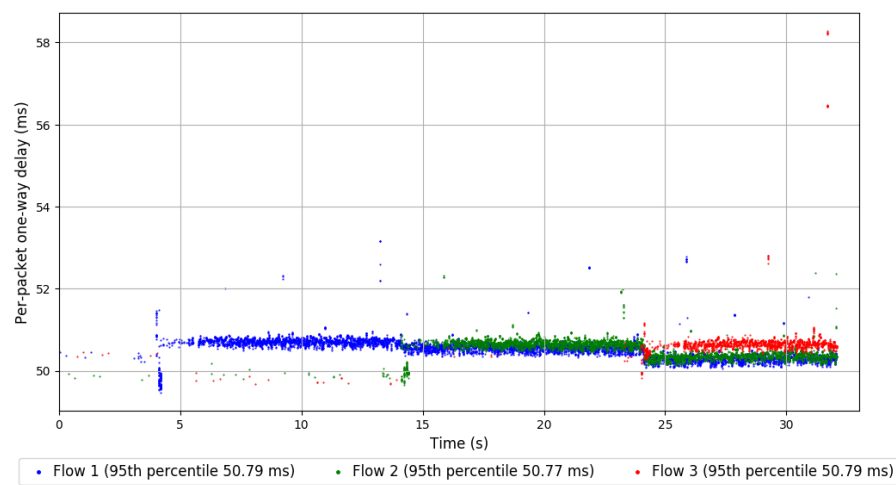
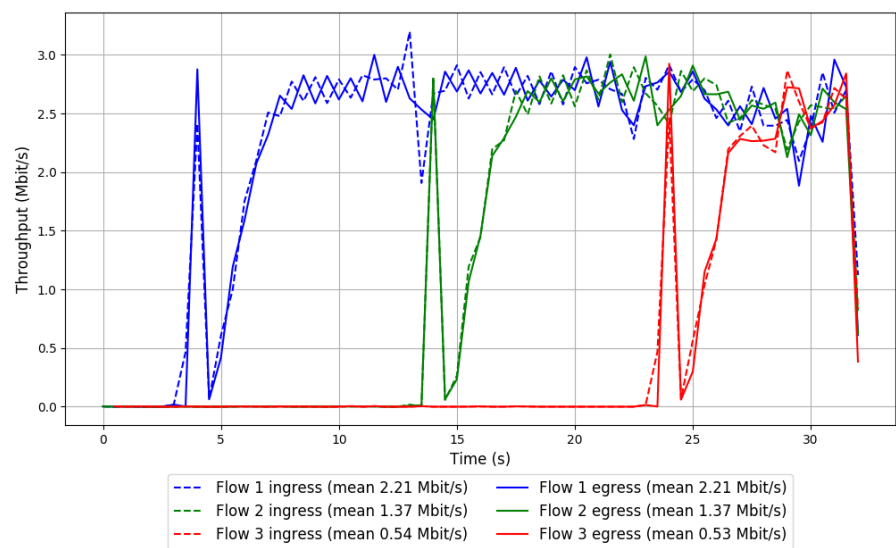
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 50.789 ms

Loss rate: 1.72%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-09-22 07:42:01

End at: 2017-09-22 07:42:31

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.07 Mbit/s

95th percentile per-packet one-way delay: 50.821 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 50.855 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 50.690 ms

Loss rate: 0.64%

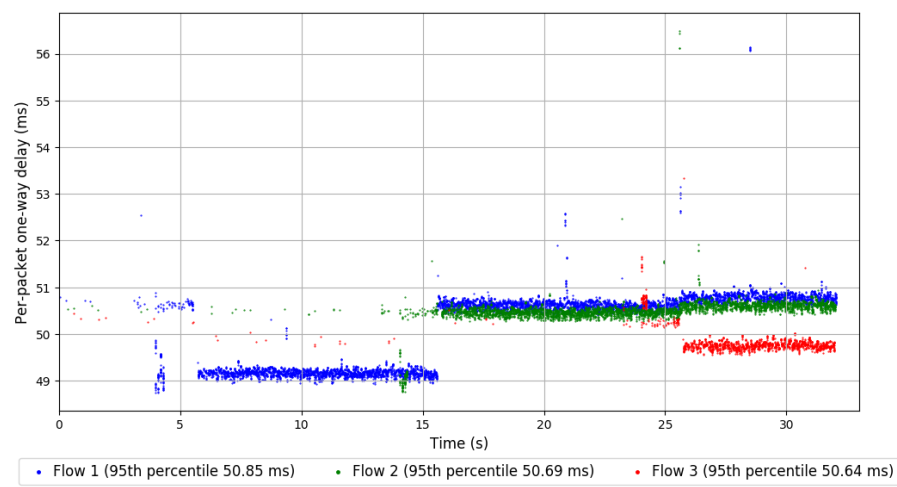
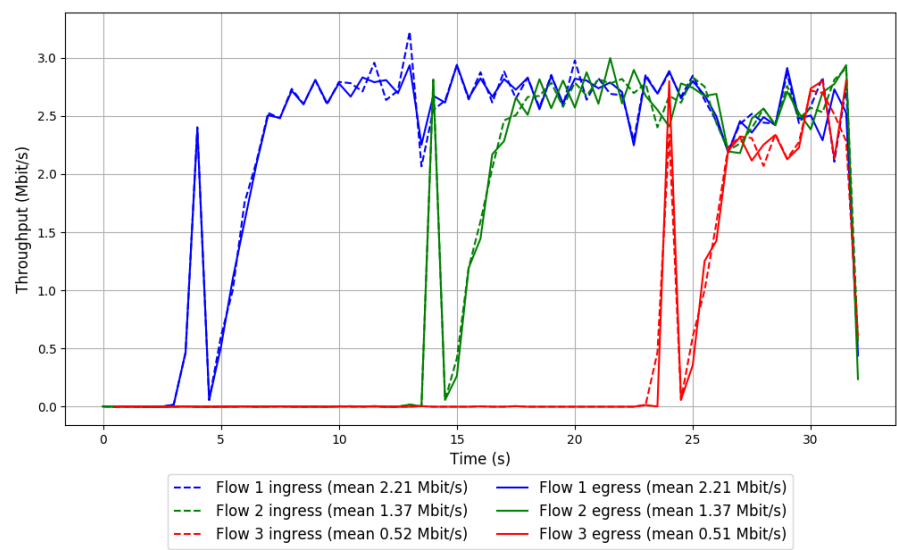
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 50.641 ms

Loss rate: 1.86%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-09-22 07:54:42

End at: 2017-09-22 07:55:12

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 50.762 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 50.774 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 50.732 ms

Loss rate: 0.54%

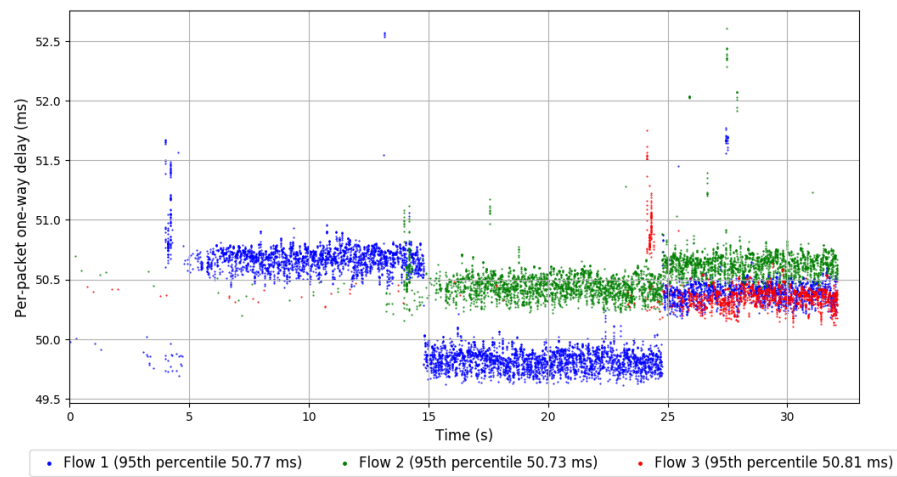
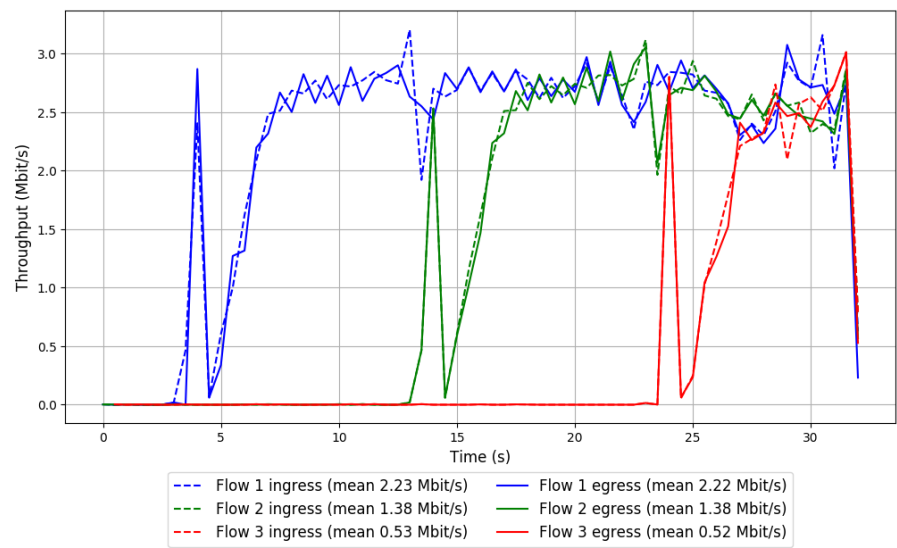
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 50.806 ms

Loss rate: 1.58%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-09-22 08:07:39

End at: 2017-09-22 08:08:09

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.07 Mbit/s

95th percentile per-packet one-way delay: 50.843 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 50.499 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 50.868 ms

Loss rate: 0.61%

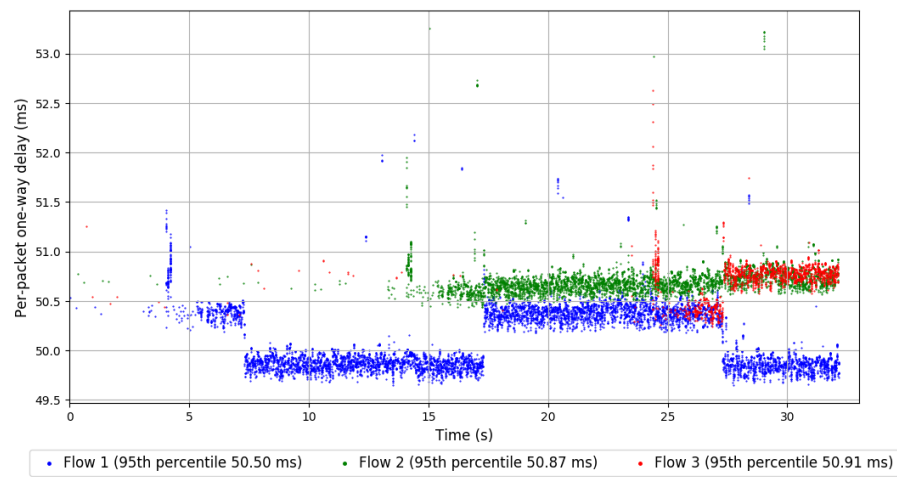
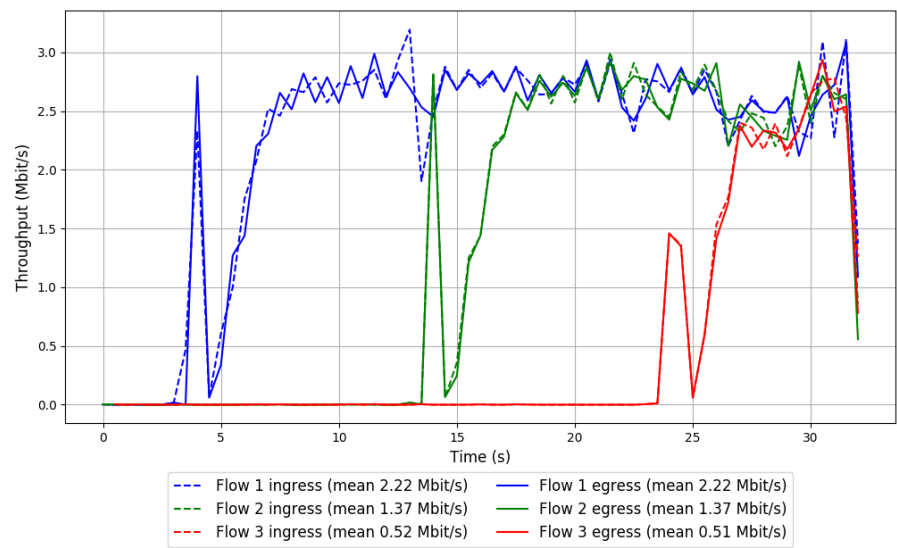
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 50.908 ms

Loss rate: 2.21%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-09-22 08:20:30

End at: 2017-09-22 08:21:00

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 50.785 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 50.574 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 50.305 ms

Loss rate: 0.93%

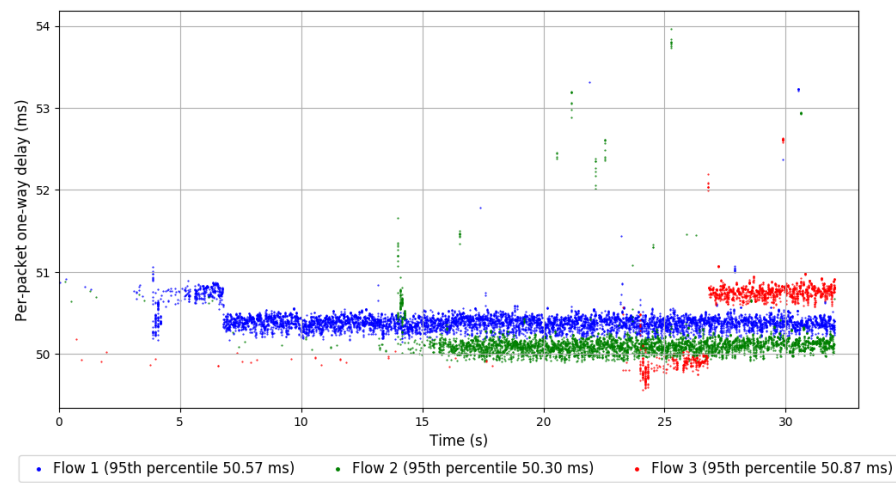
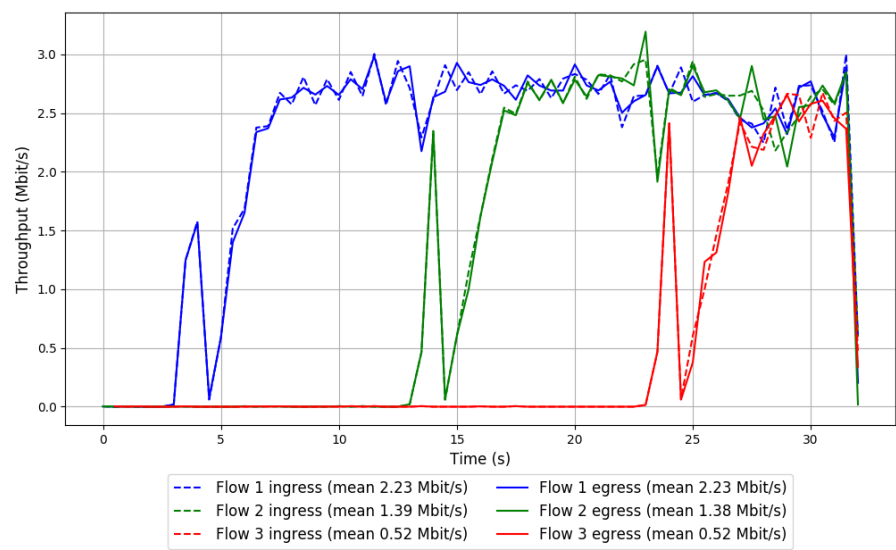
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 50.874 ms

Loss rate: 1.40%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-09-22 08:33:11

End at: 2017-09-22 08:33:41

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 51.085 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 51.102 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 50.780 ms

Loss rate: 0.47%

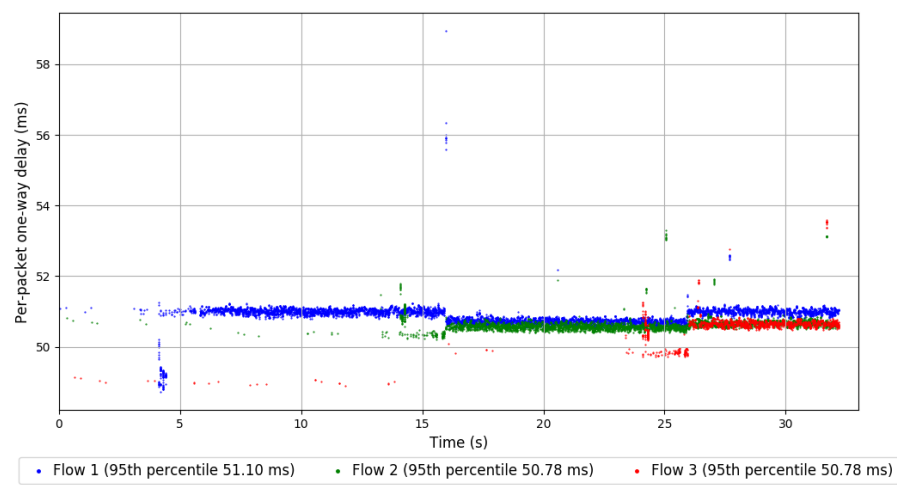
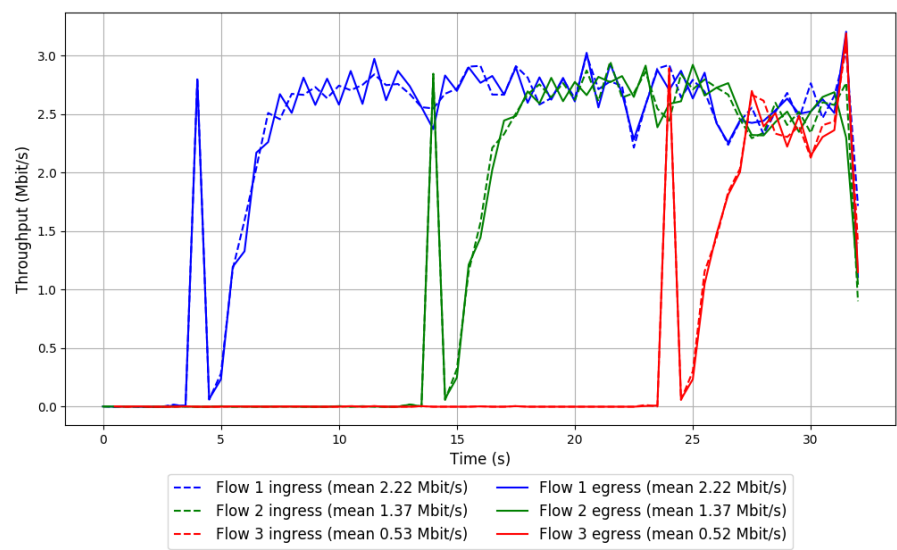
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 50.780 ms

Loss rate: 1.53%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-09-22 08:45:53

End at: 2017-09-22 08:46:23

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.04 Mbit/s

95th percentile per-packet one-way delay: 50.656 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 2.18 Mbit/s

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

Loss rate: 0.48%

-- Flow 2:

Average throughput: 1.36 Mbit/s

95th percentile per-packet one-way delay: 50.542 ms

Loss rate: 0.63%

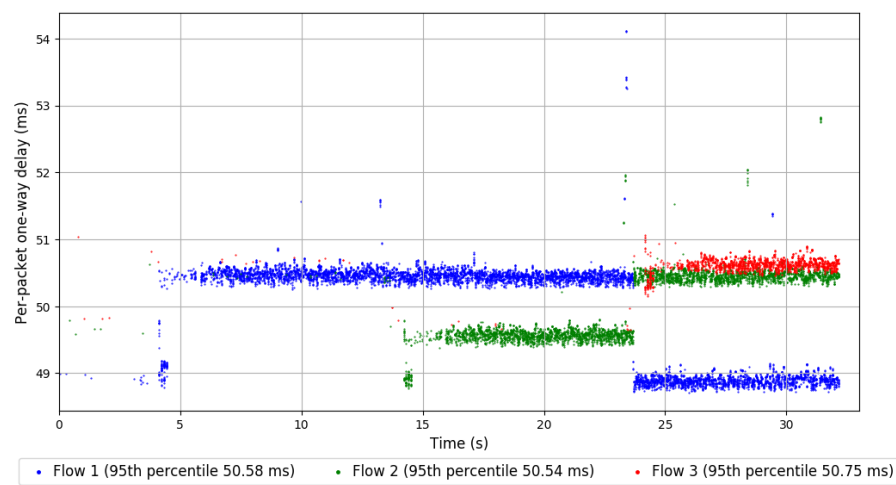
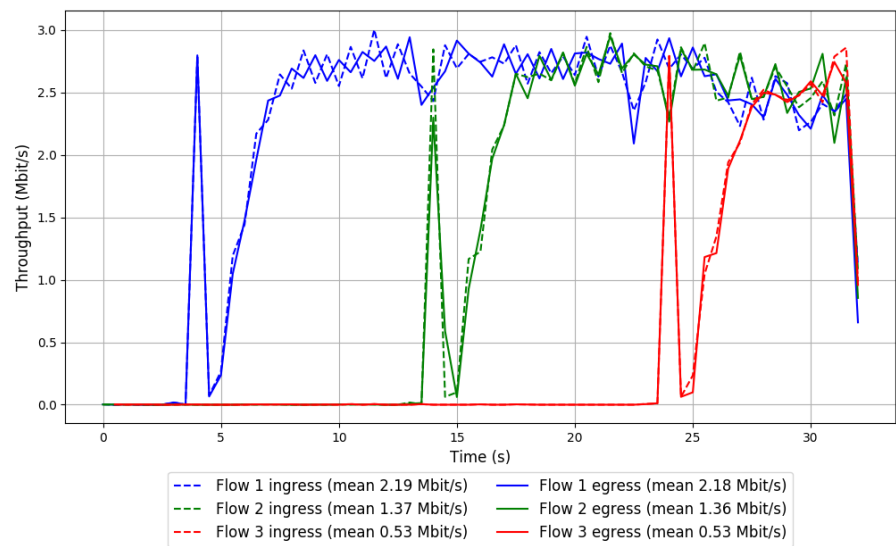
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 50.754 ms

Loss rate: 1.50%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-09-22 08:58:39

End at: 2017-09-22 08:59:09

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.06 Mbit/s

95th percentile per-packet one-way delay: 50.702 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 50.503 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 50.493 ms

Loss rate: 0.37%

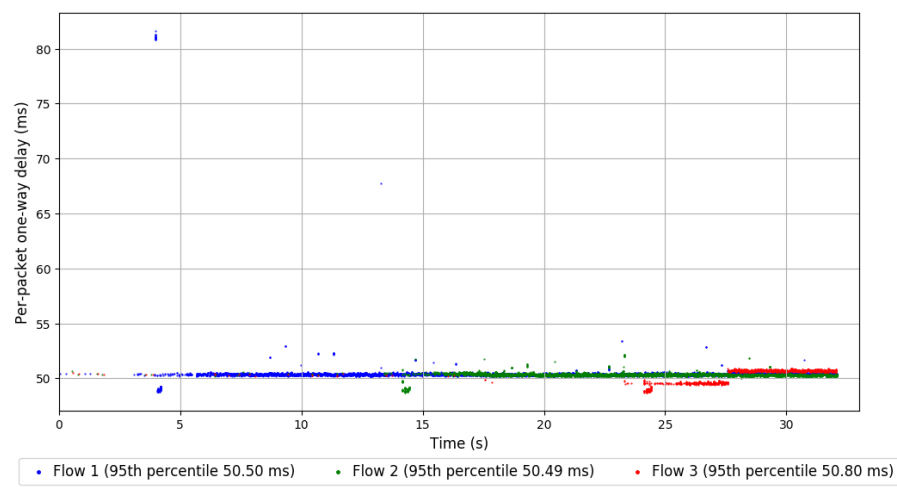
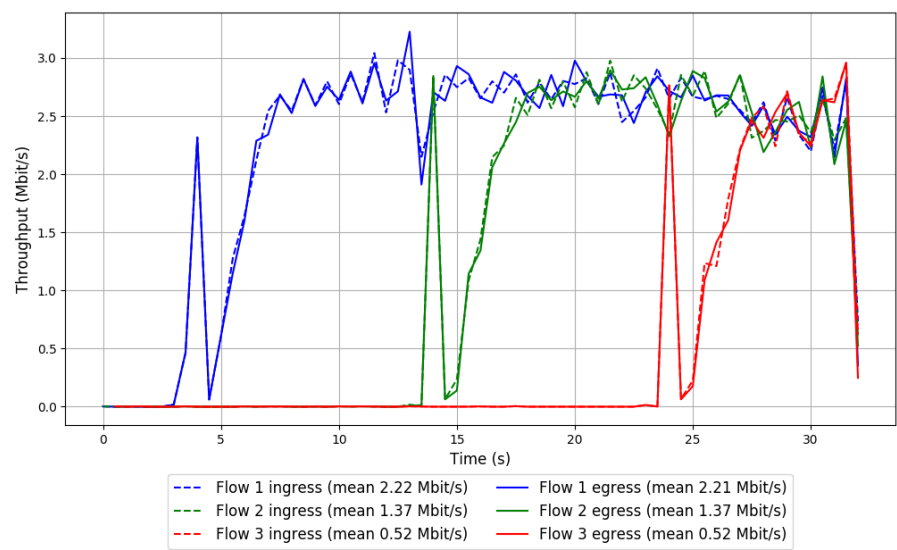
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 50.800 ms

Loss rate: 1.90%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-09-22 09:11:25

End at: 2017-09-22 09:11:55

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.05 Mbit/s

95th percentile per-packet one-way delay: 50.850 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 50.869 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 1.36 Mbit/s

95th percentile per-packet one-way delay: 50.655 ms

Loss rate: 0.58%

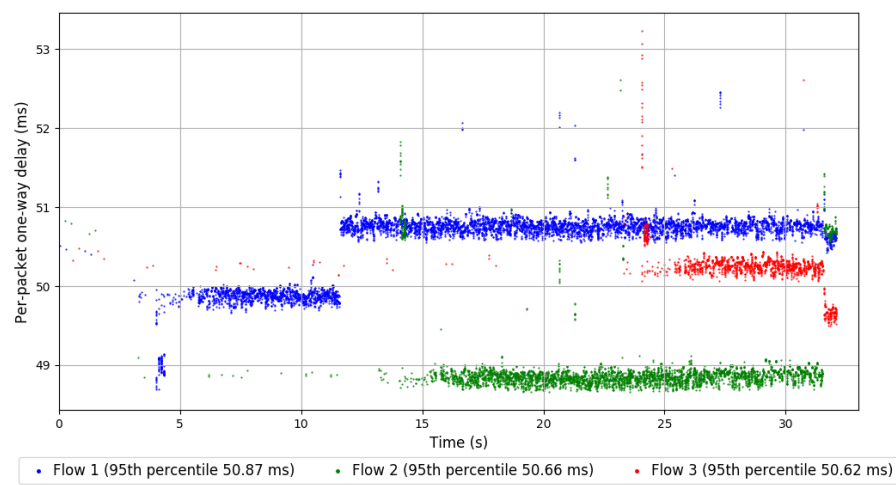
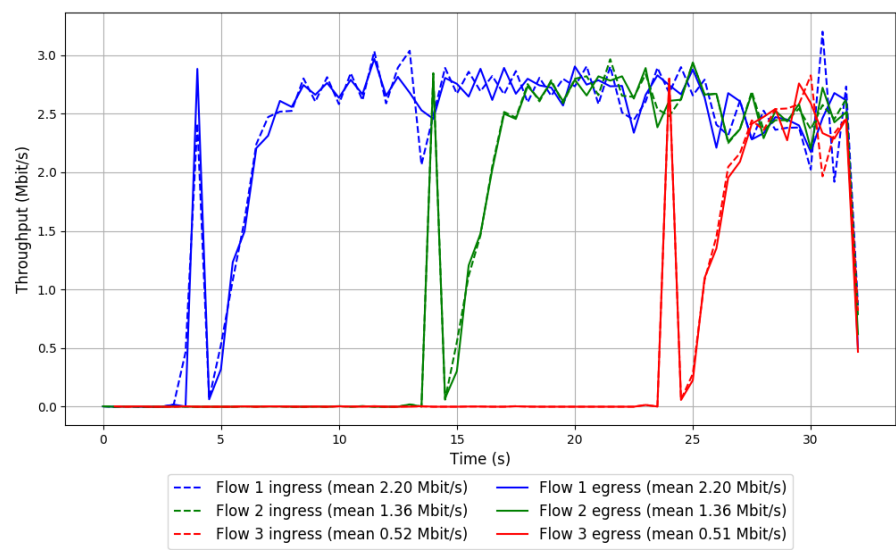
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 50.616 ms

Loss rate: 1.79%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-09-22 07:15:53

End at: 2017-09-22 07:16:23

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.62 Mbit/s

95th percentile per-packet one-way delay: 50.682 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 50.688 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 50.627 ms

Loss rate: 0.59%

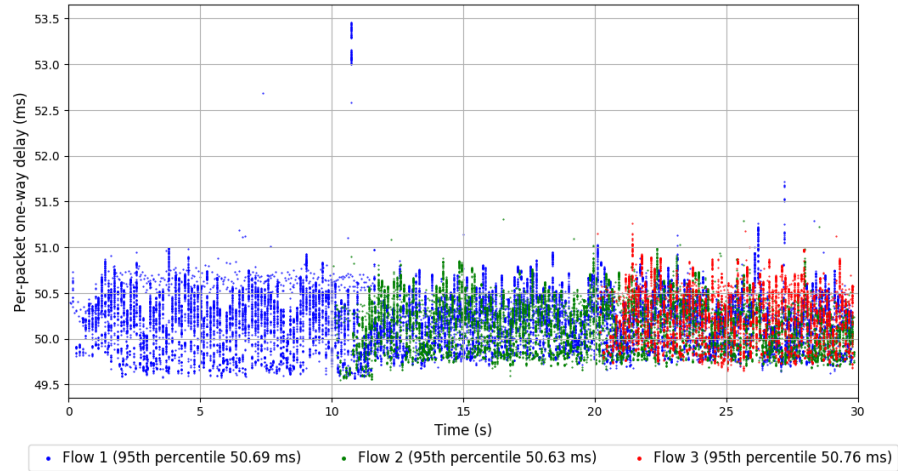
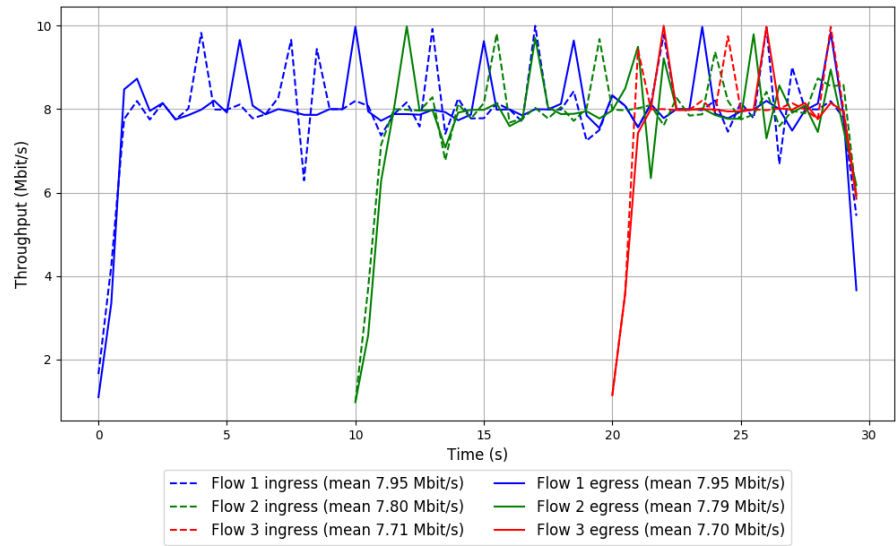
-- Flow 3:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 50.757 ms

Loss rate: 1.28%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-09-22 07:28:52

End at: 2017-09-22 07:29:22

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.51 Mbit/s

95th percentile per-packet one-way delay: 51.667 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 51.682 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 51.622 ms

Loss rate: 0.27%

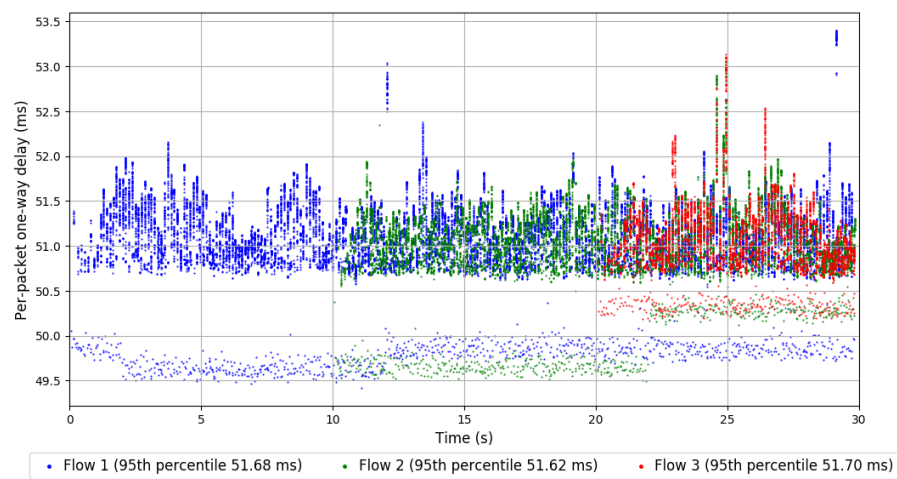
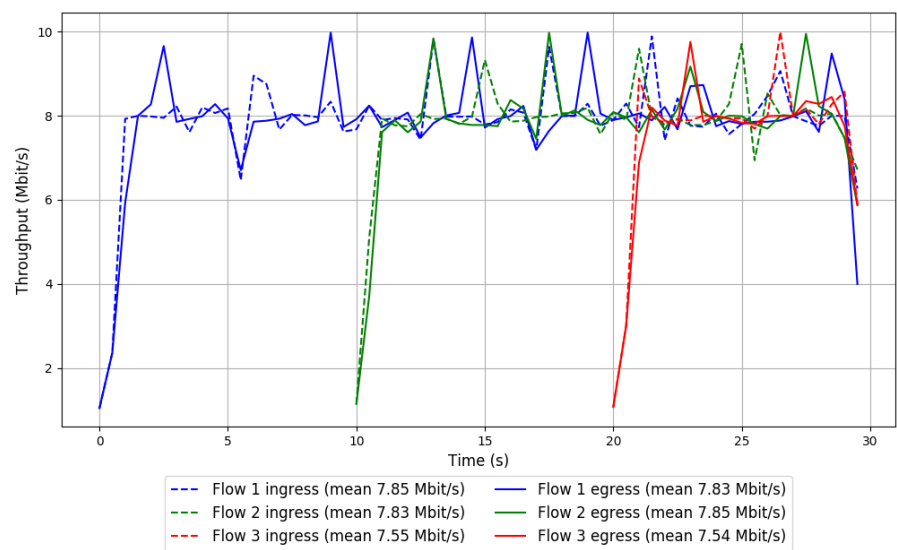
-- Flow 3:

Average throughput: 7.54 Mbit/s

95th percentile per-packet one-way delay: 51.699 ms

Loss rate: 1.42%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-09-22 07:41:21

End at: 2017-09-22 07:41:51

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.58 Mbit/s

95th percentile per-packet one-way delay: 51.454 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 51.525 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 51.401 ms

Loss rate: 0.73%

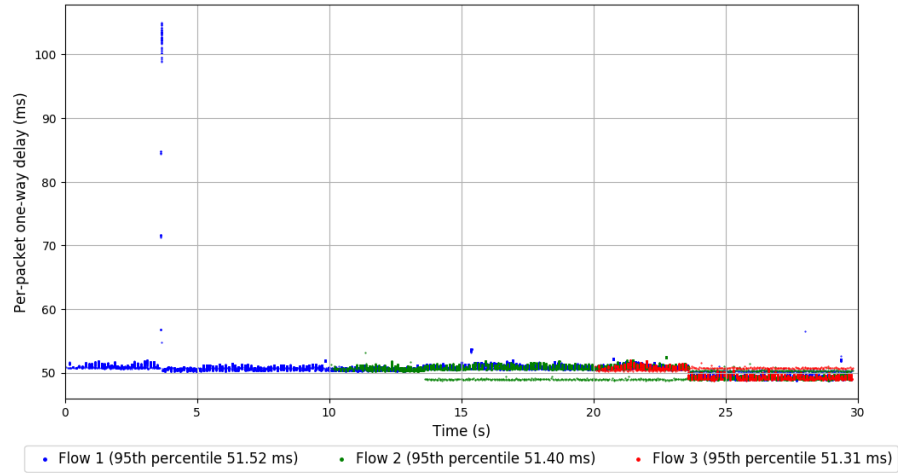
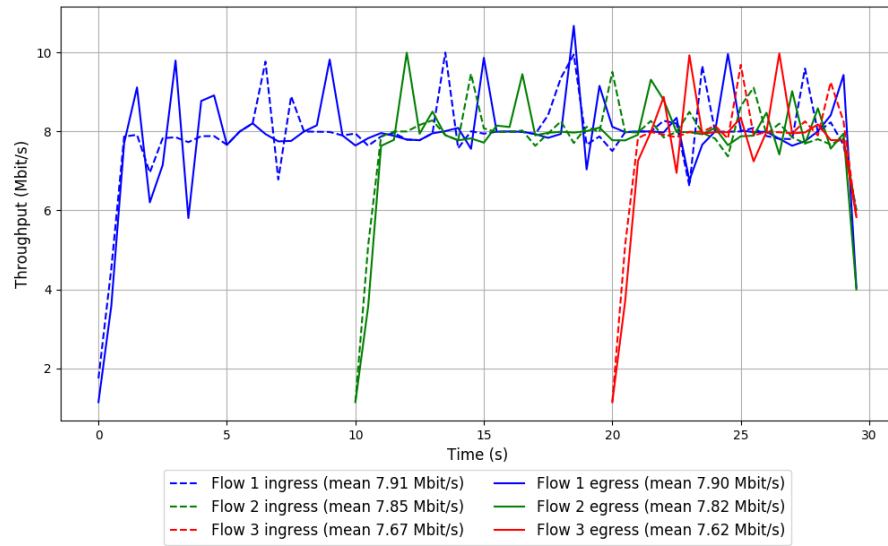
-- Flow 3:

Average throughput: 7.62 Mbit/s

95th percentile per-packet one-way delay: 51.307 ms

Loss rate: 1.32%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-09-22 07:54:02

End at: 2017-09-22 07:54:32

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.45 Mbit/s

95th percentile per-packet one-way delay: 51.685 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 51.636 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 7.60 Mbit/s

95th percentile per-packet one-way delay: 51.693 ms

Loss rate: 0.64%

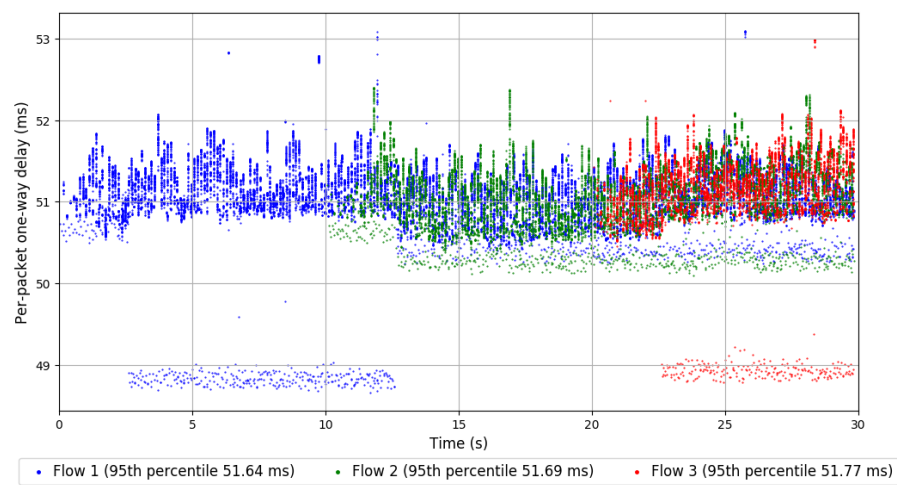
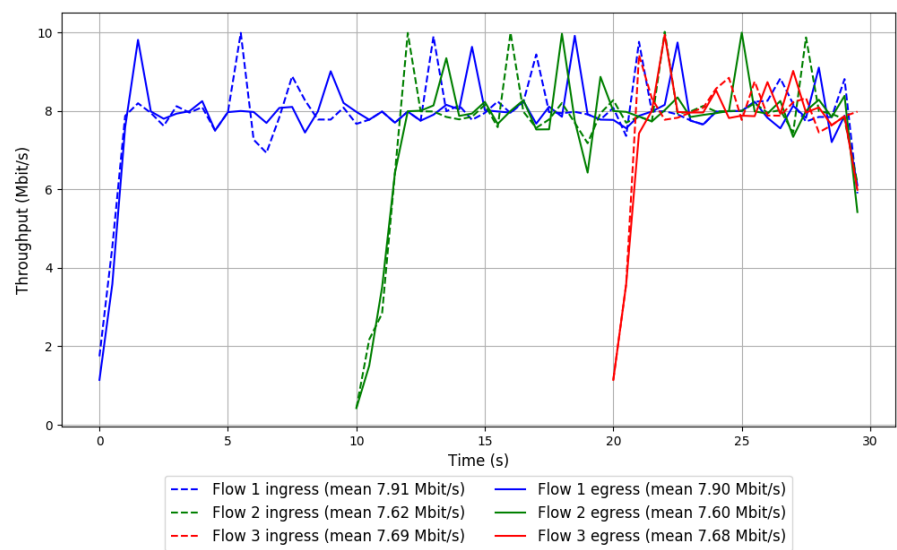
-- Flow 3:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 51.770 ms

Loss rate: 1.32%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-09-22 08:06:59

End at: 2017-09-22 08:07:29

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.65 Mbit/s

95th percentile per-packet one-way delay: 51.643 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 51.582 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 51.678 ms

Loss rate: 0.30%

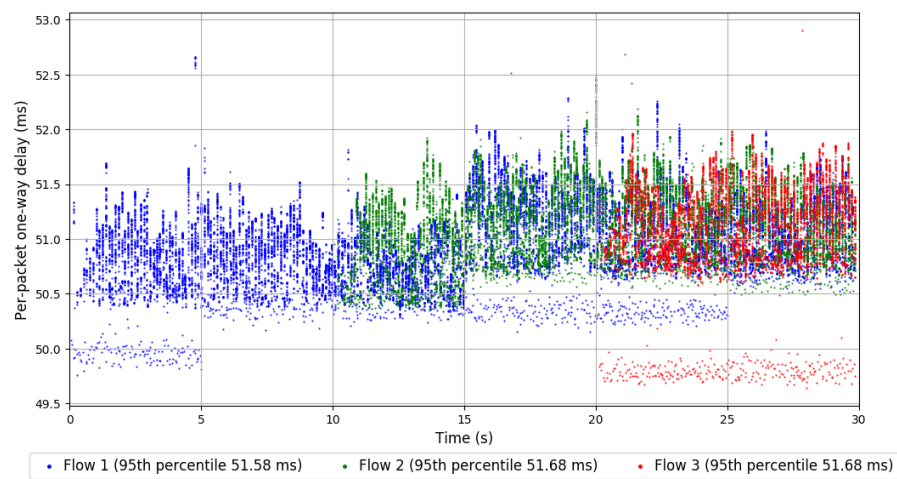
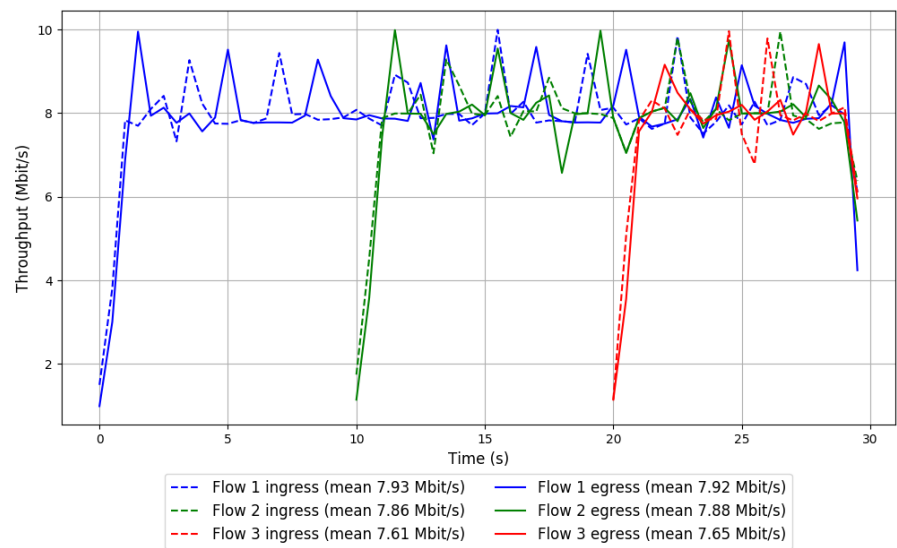
-- Flow 3:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 51.682 ms

Loss rate: 0.19%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-09-22 08:19:50

End at: 2017-09-22 08:20:20

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.62 Mbit/s

95th percentile per-packet one-way delay: 51.475 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.456 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.478 ms

Loss rate: 0.00%

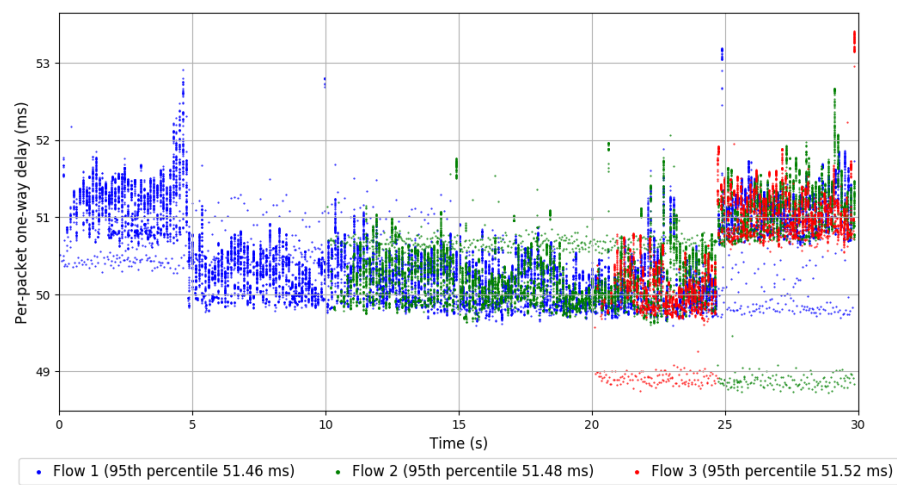
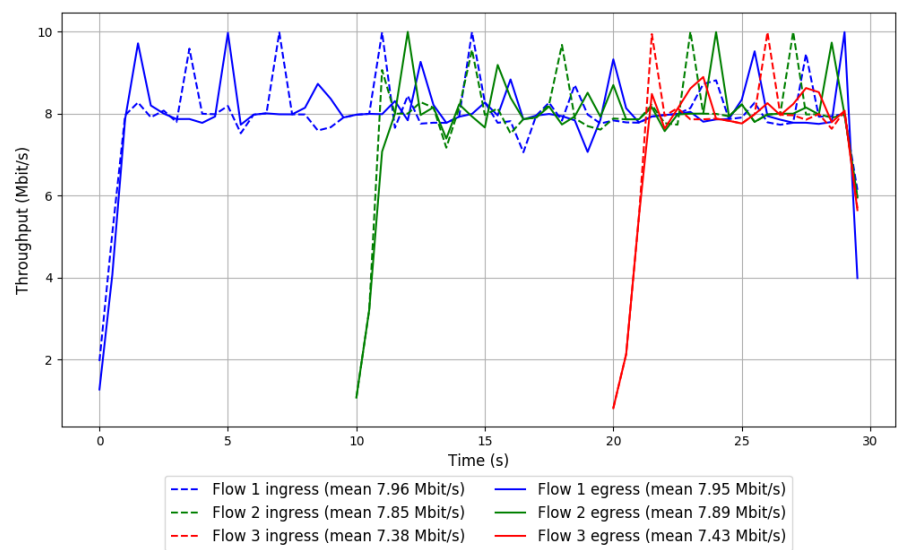
-- Flow 3:

Average throughput: 7.43 Mbit/s

95th percentile per-packet one-way delay: 51.517 ms

Loss rate: 0.03%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-09-22 08:32:31

End at: 2017-09-22 08:33:01

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.73 Mbit/s

95th percentile per-packet one-way delay: 51.229 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 51.203 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 51.192 ms

Loss rate: 0.64%

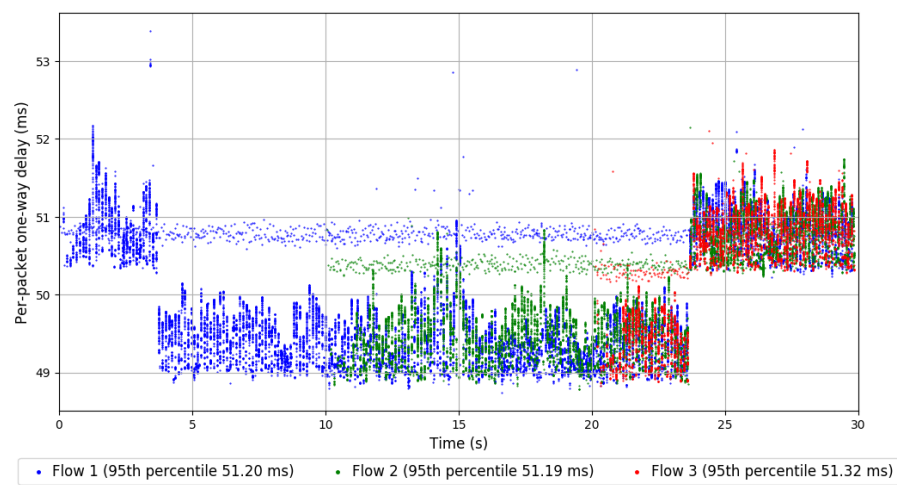
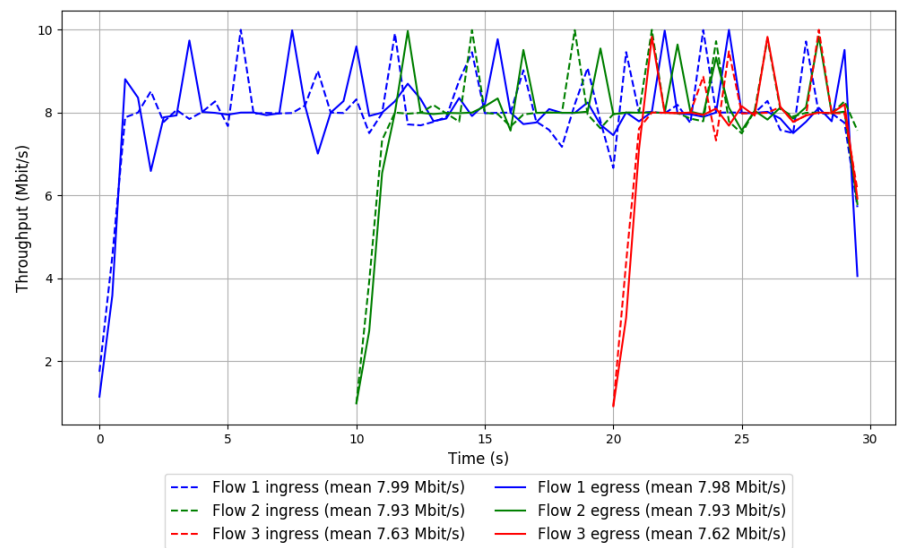
-- Flow 3:

Average throughput: 7.62 Mbit/s

95th percentile per-packet one-way delay: 51.320 ms

Loss rate: 1.32%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-09-22 08:45:13

End at: 2017-09-22 08:45:43

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.68 Mbit/s

95th percentile per-packet one-way delay: 50.387 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 8.00 Mbit/s

95th percentile per-packet one-way delay: 50.453 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 50.512 ms

Loss rate: 0.66%

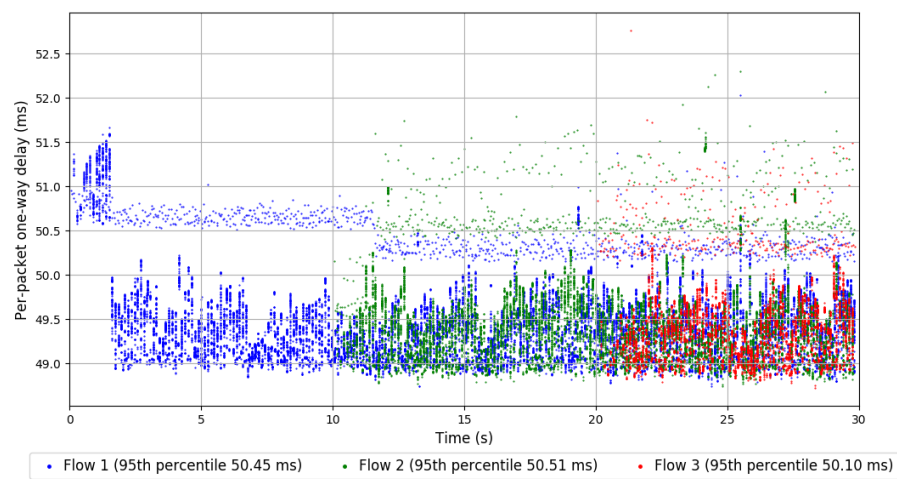
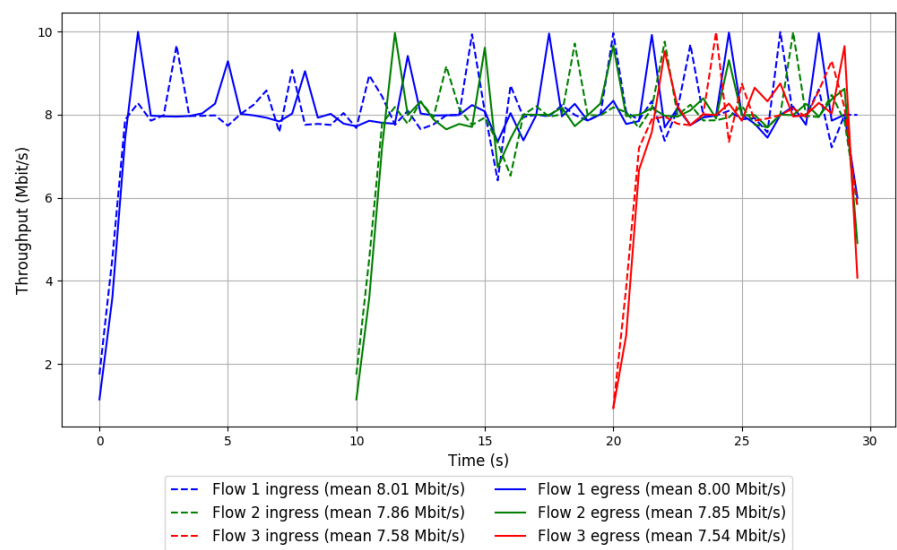
-- Flow 3:

Average throughput: 7.54 Mbit/s

95th percentile per-packet one-way delay: 50.096 ms

Loss rate: 1.29%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-09-22 08:57:59

End at: 2017-09-22 08:58:29

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.76 Mbit/s

95th percentile per-packet one-way delay: 51.347 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 8.06 Mbit/s

95th percentile per-packet one-way delay: 51.428 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 51.251 ms

Loss rate: 0.59%

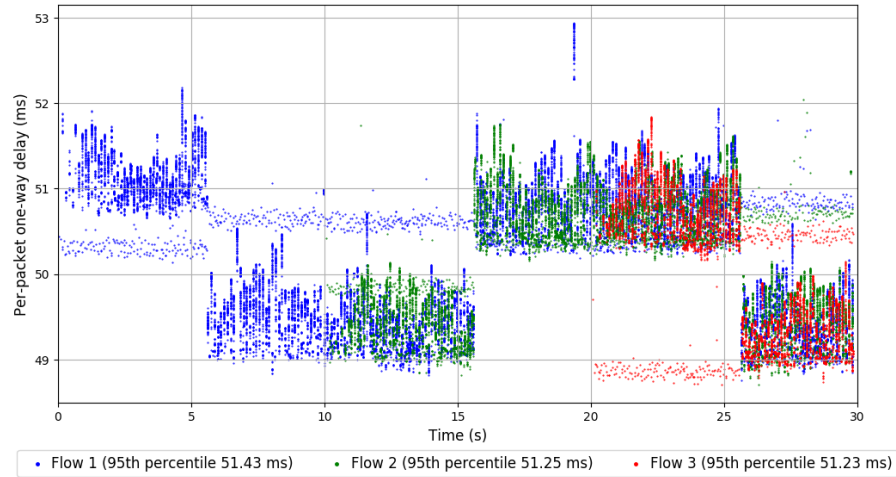
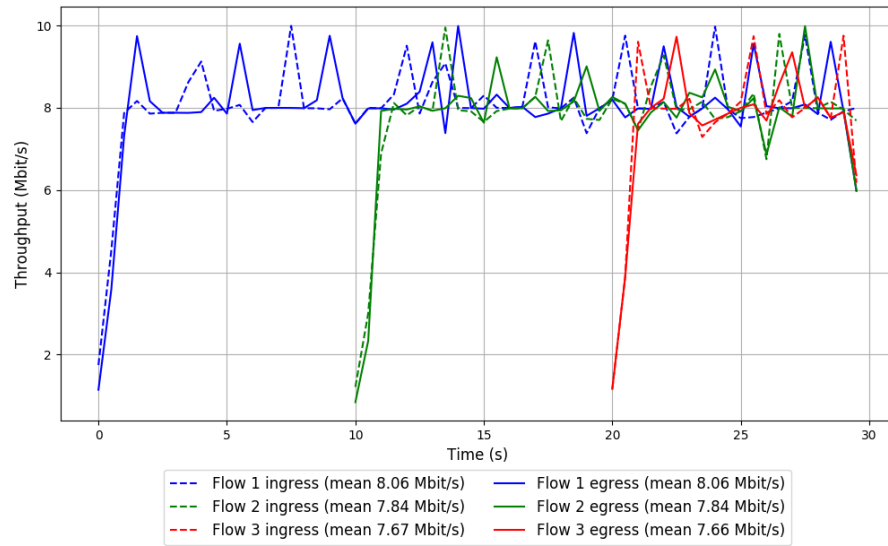
-- Flow 3:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 51.228 ms

Loss rate: 1.11%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-09-22 09:10:45

End at: 2017-09-22 09:11:15

Below is generated by plot.py at 2017-09-22 12:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.50 Mbit/s

95th percentile per-packet one-way delay: 51.732 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 51.725 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 51.708 ms

Loss rate: 0.65%

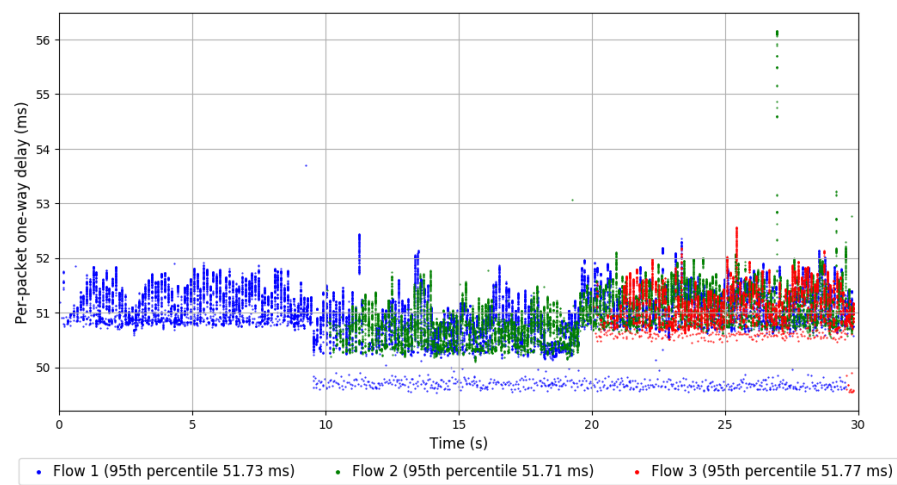
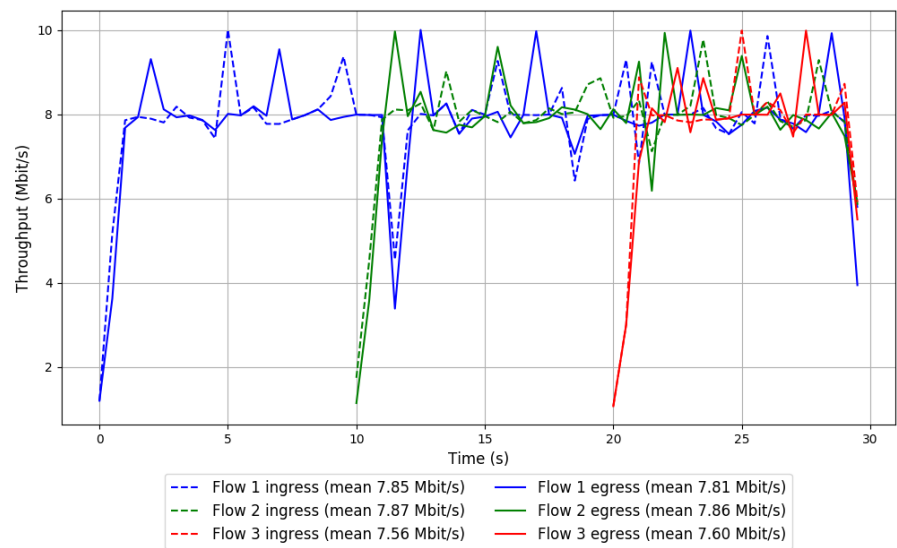
-- Flow 3:

Average throughput: 7.60 Mbit/s

95th percentile per-packet one-way delay: 51.768 ms

Loss rate: 0.58%

Run 10: Report of Sprout — Data Link

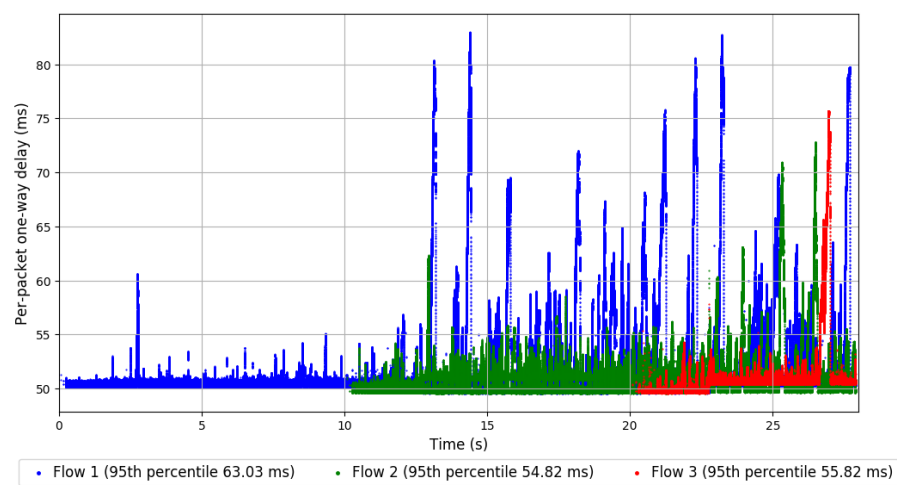
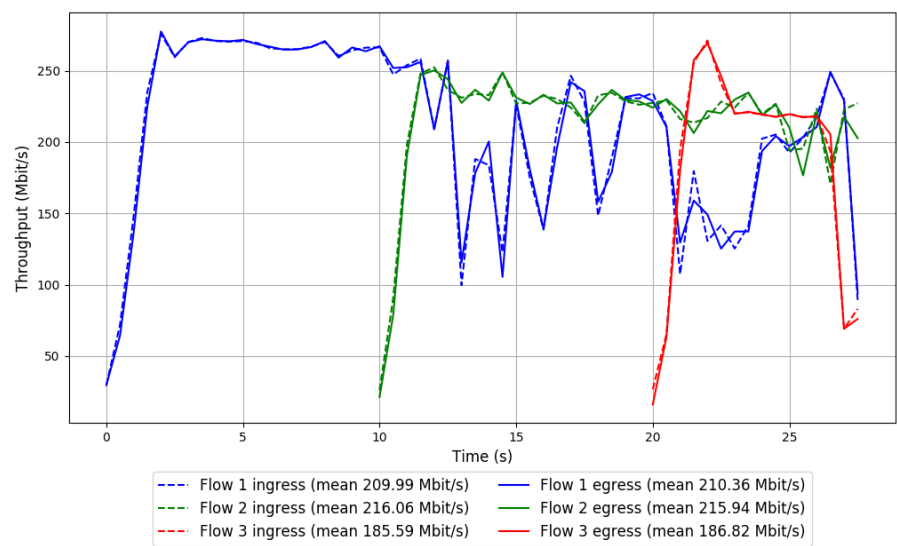


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-09-22 07:18:20
End at: 2017-09-22 07:18:50

# Below is generated by plot.py at 2017-09-22 12:20:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 400.88 Mbit/s
95th percentile per-packet one-way delay: 59.494 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 210.36 Mbit/s
95th percentile per-packet one-way delay: 63.031 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 215.94 Mbit/s
95th percentile per-packet one-way delay: 54.816 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 186.82 Mbit/s
95th percentile per-packet one-way delay: 55.820 ms
Loss rate: 0.62%
```


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

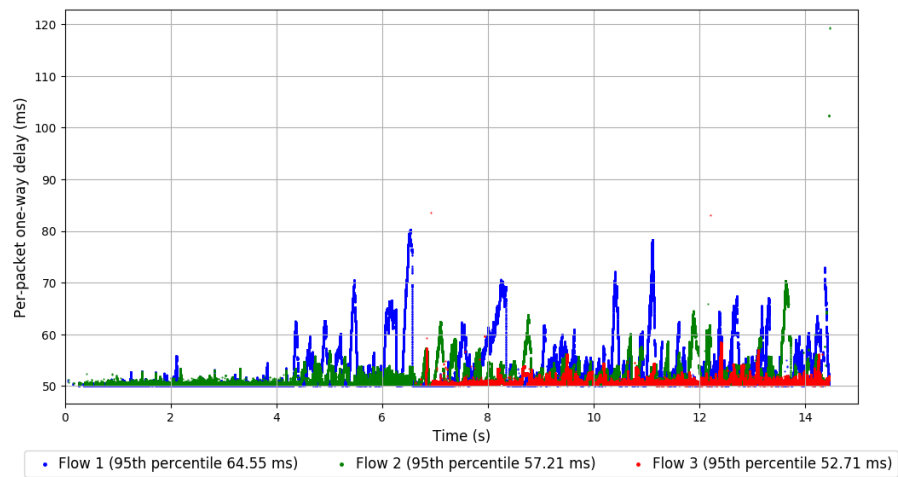
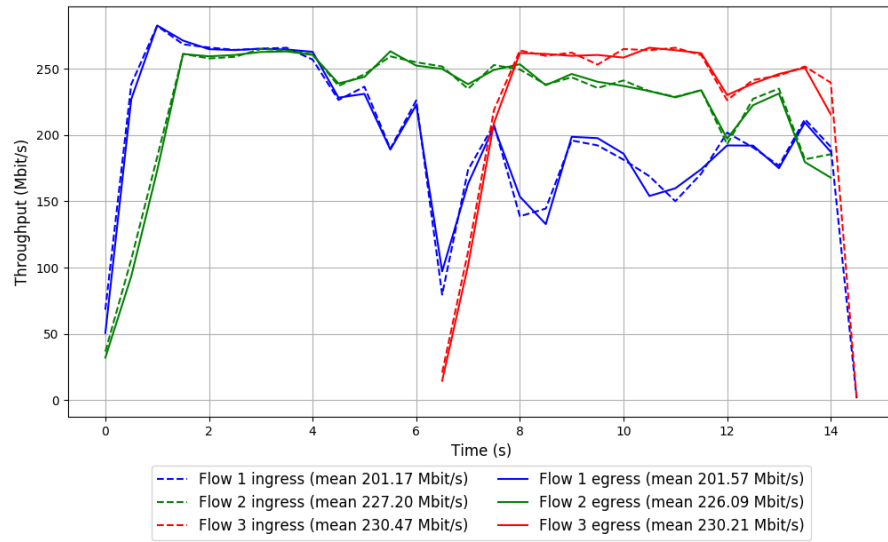


Run 2: Statistics of TaoVA-100x

Start at: 2017-09-22 07:31:18

End at: 2017-09-22 07:31:48

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

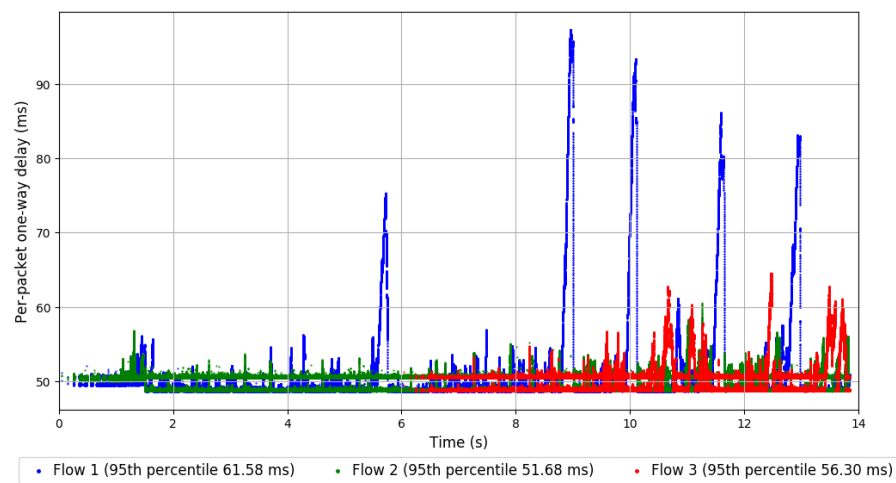
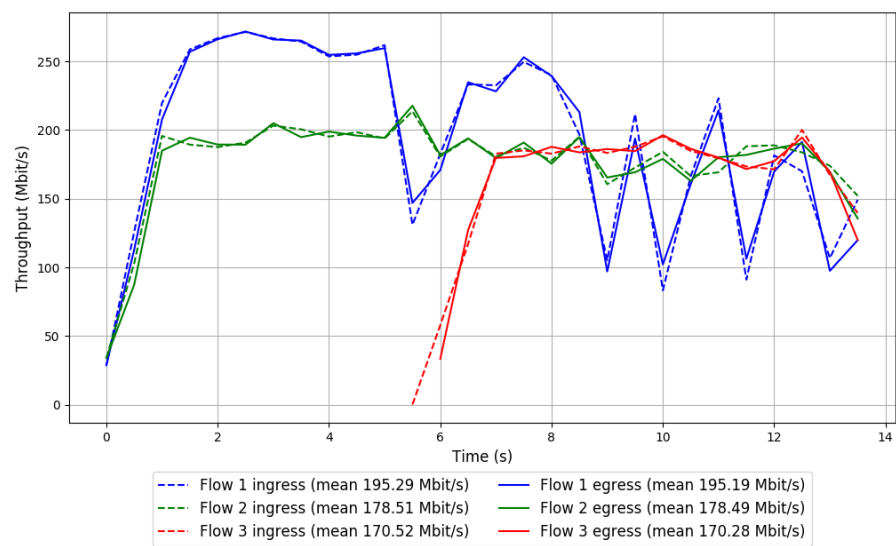


Run 3: Statistics of TaoVA-100x

Start at: 2017-09-22 07:43:47

End at: 2017-09-22 07:44:17

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-09-22 07:56:29

End at: 2017-09-22 07:56:59

Below is generated by plot.py at 2017-09-22 12:20:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 401.98 Mbit/s

95th percentile per-packet one-way delay: 61.176 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 220.17 Mbit/s

95th percentile per-packet one-way delay: 57.818 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 206.61 Mbit/s

95th percentile per-packet one-way delay: 65.772 ms

Loss rate: 0.83%

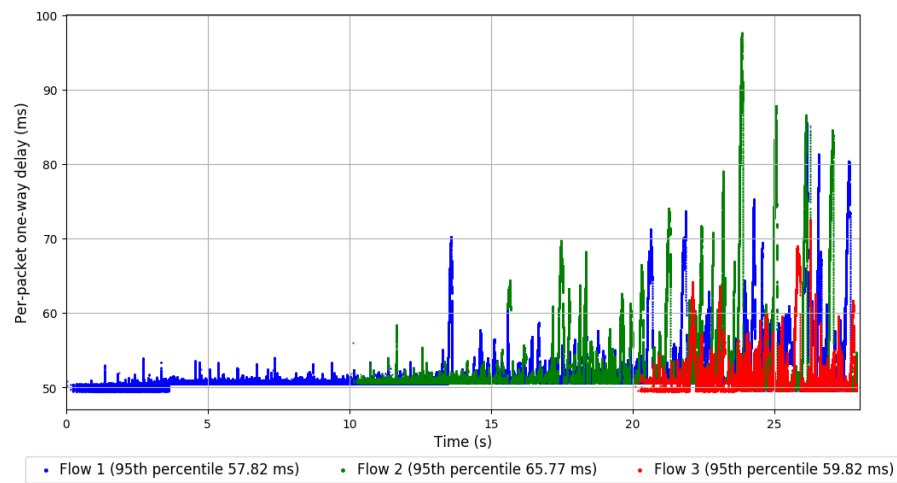
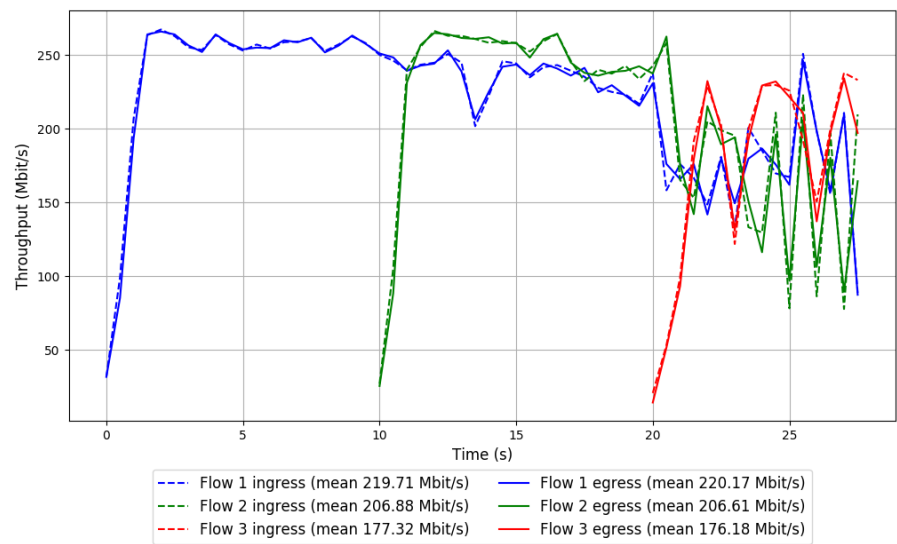
-- Flow 3:

Average throughput: 176.18 Mbit/s

95th percentile per-packet one-way delay: 59.816 ms

Loss rate: 2.21%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-09-22 08:09:26

End at: 2017-09-22 08:09:56

Below is generated by plot.py at 2017-09-22 12:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 428.03 Mbit/s

95th percentile per-packet one-way delay: 59.240 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 234.80 Mbit/s

95th percentile per-packet one-way delay: 56.851 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 211.94 Mbit/s

95th percentile per-packet one-way delay: 51.087 ms

Loss rate: 0.56%

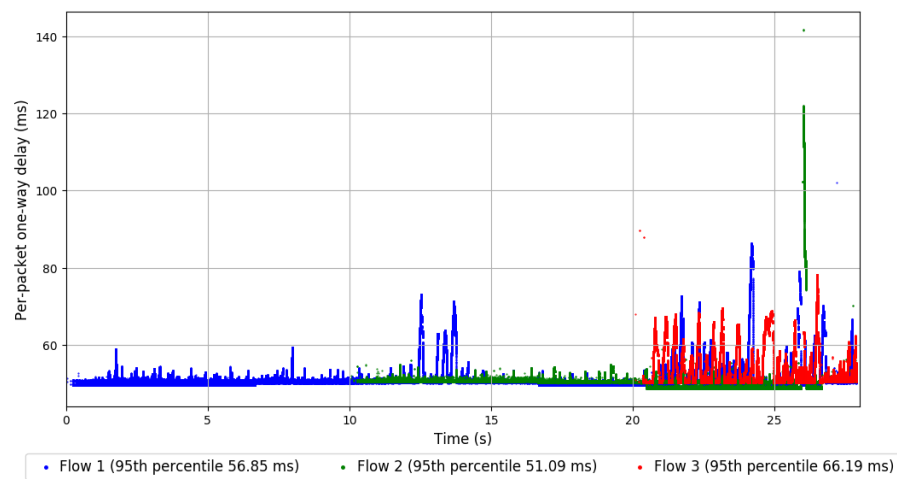
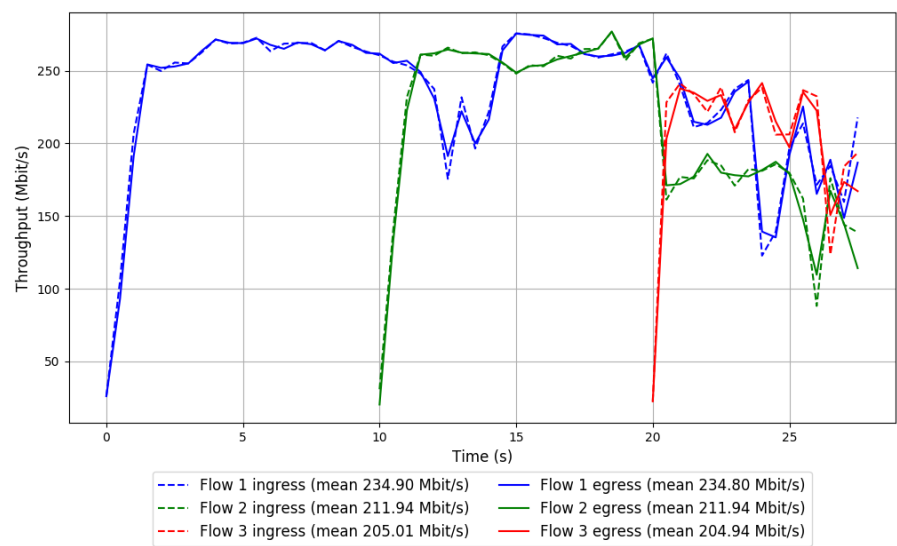
-- Flow 3:

Average throughput: 204.94 Mbit/s

95th percentile per-packet one-way delay: 66.193 ms

Loss rate: 1.31%

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

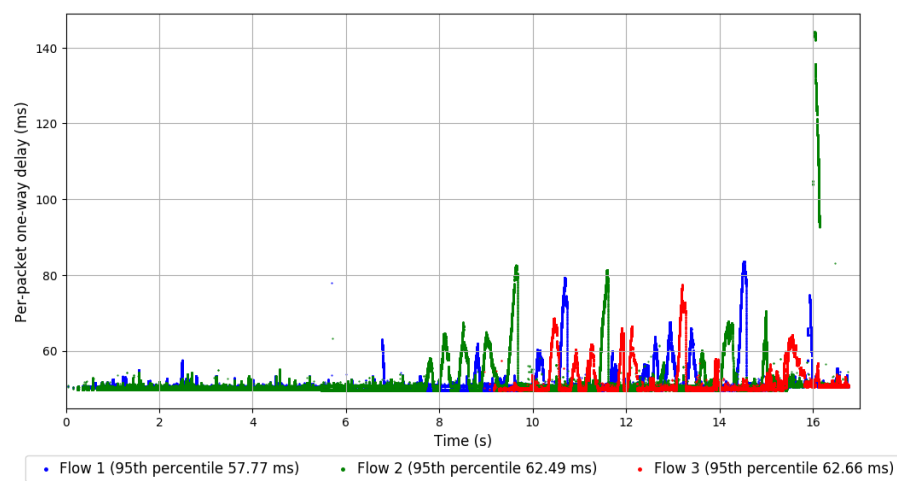
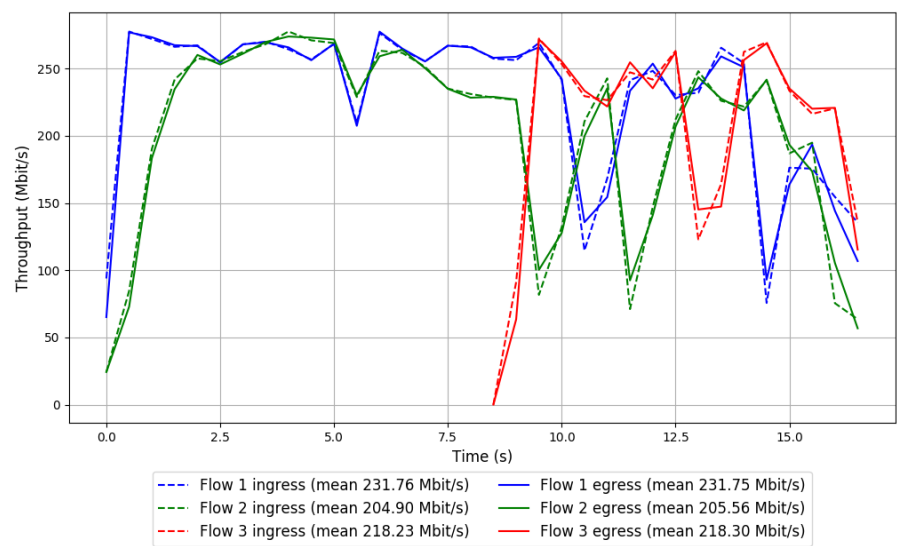


Run 6: Statistics of TaoVA-100x

Start at: 2017-09-22 08:22:16

End at: 2017-09-22 08:22:46

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

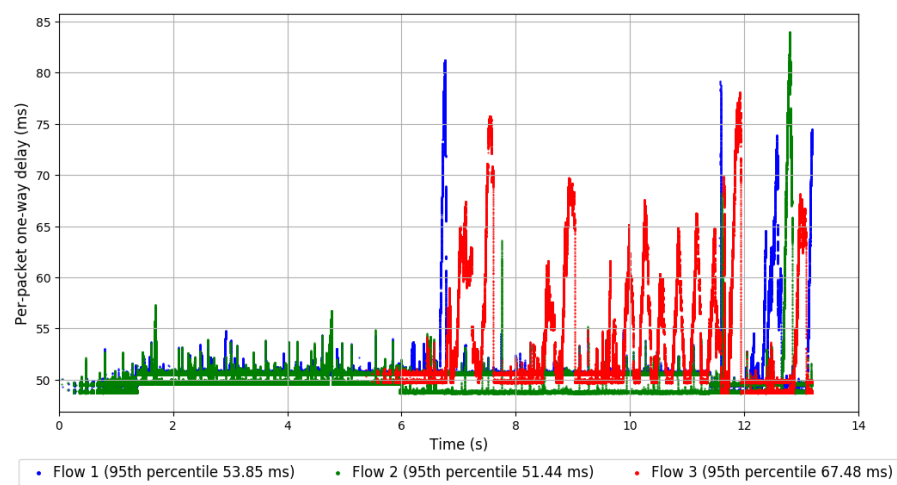
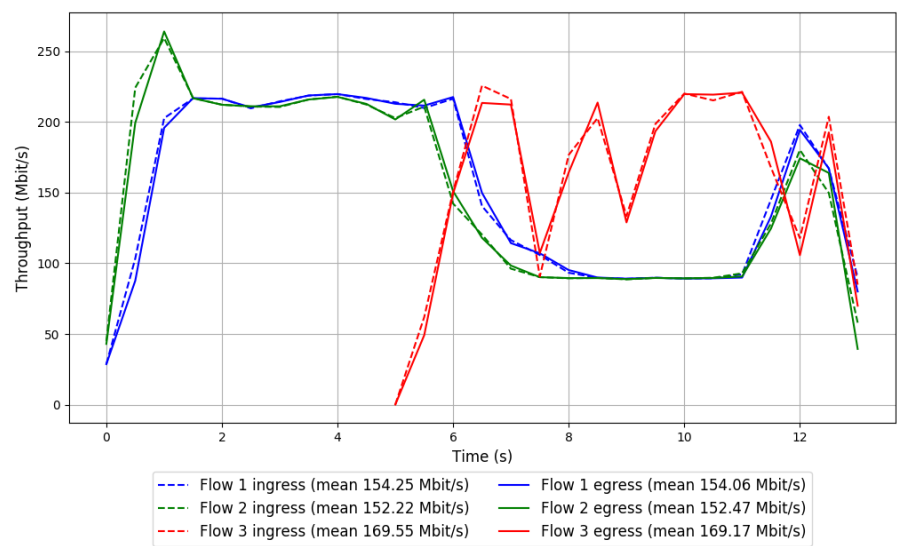


Run 7: Statistics of TaoVA-100x

Start at: 2017-09-22 08:34:56

End at: 2017-09-22 08:35:26

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

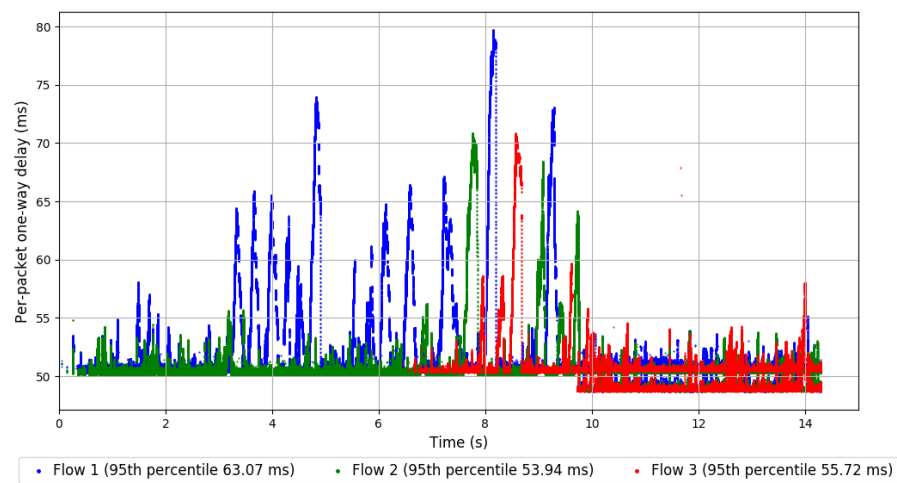
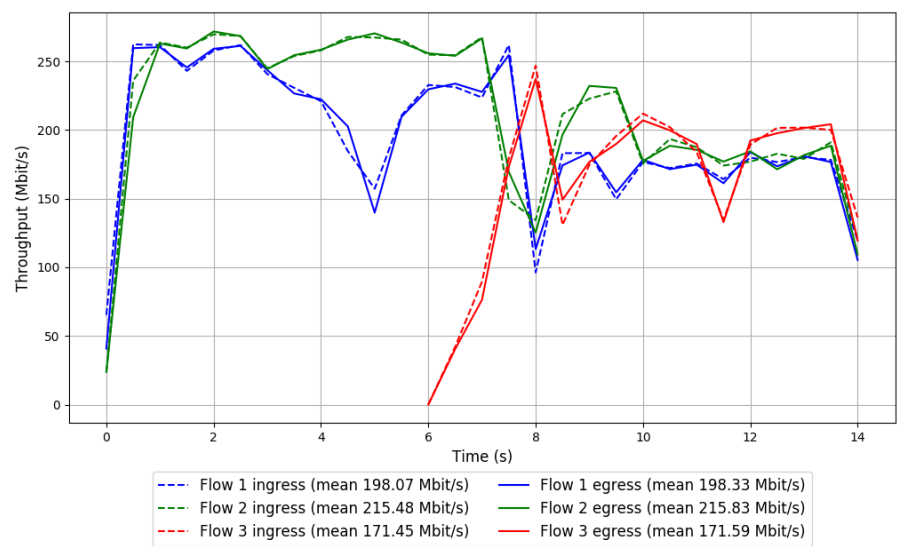


Run 8: Statistics of TaoVA-100x

Start at: 2017-09-22 08:47:39

End at: 2017-09-22 08:48:09

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

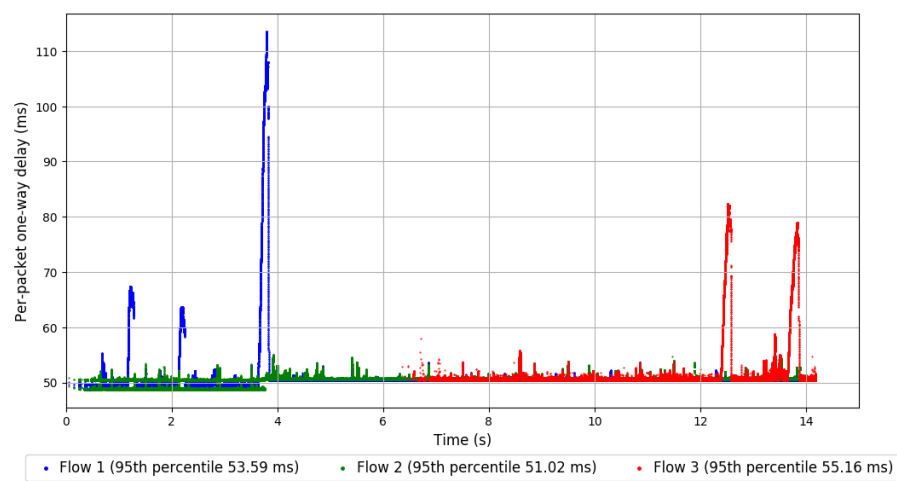
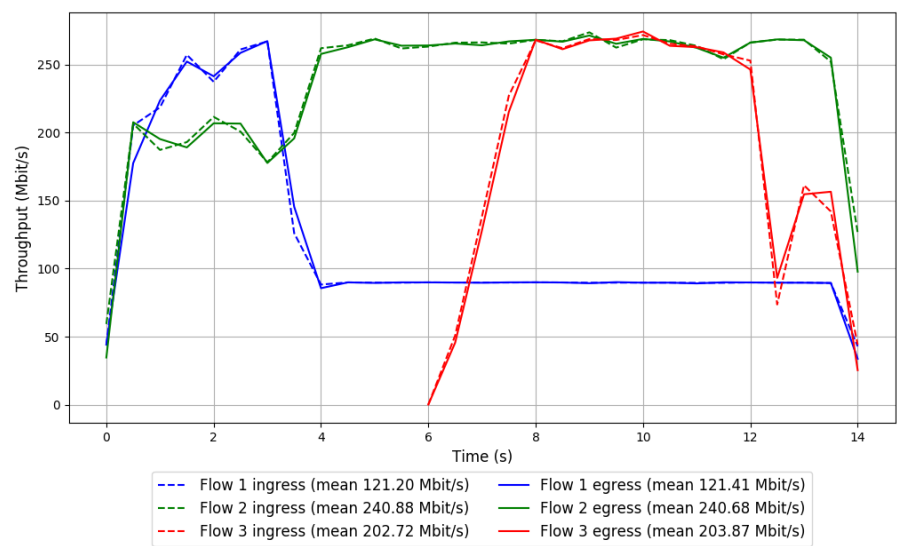


Run 9: Statistics of TaoVA-100x

Start at: 2017-09-22 09:00:25

End at: 2017-09-22 09:00:55

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

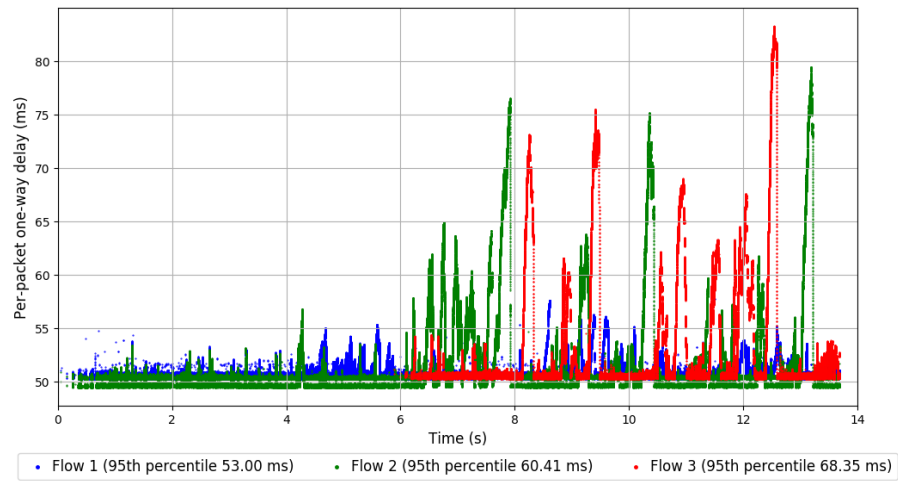
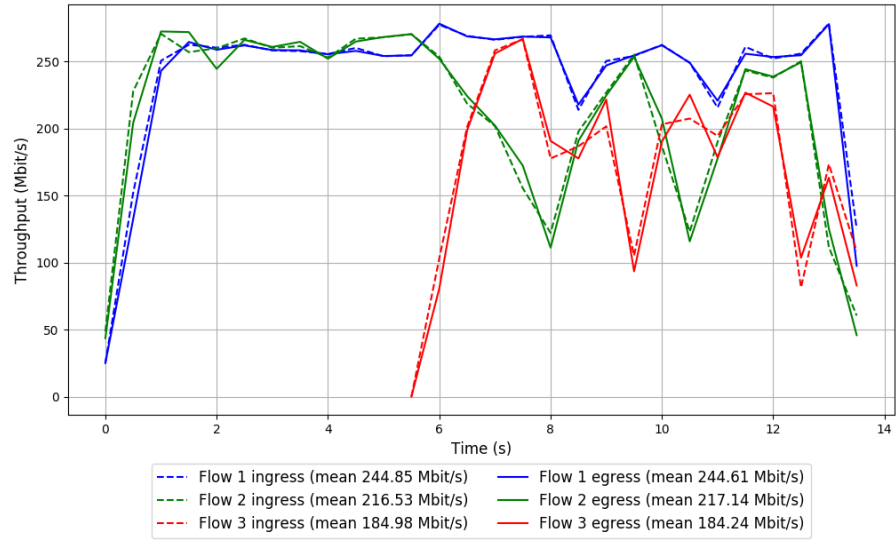


Run 10: Statistics of TaoVA-100x

Start at: 2017-09-22 09:13:11

End at: 2017-09-22 09:13:41

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



Run 1: Statistics of TCP Vegas

Start at: 2017-09-22 07:28:01

End at: 2017-09-22 07:28:31

Below is generated by plot.py at 2017-09-22 12:26:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 188.09 Mbit/s

95th percentile per-packet one-way delay: 59.514 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 56.59 Mbit/s

95th percentile per-packet one-way delay: 54.152 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 186.91 Mbit/s

95th percentile per-packet one-way delay: 60.902 ms

Loss rate: 0.21%

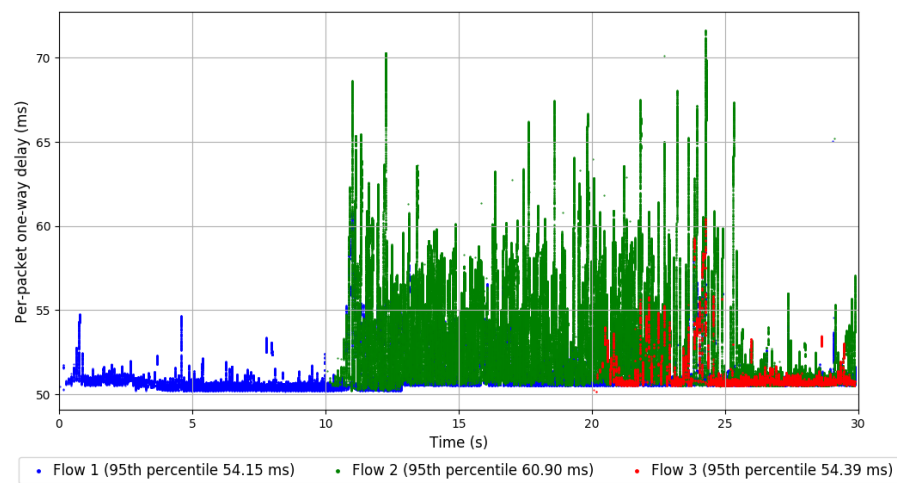
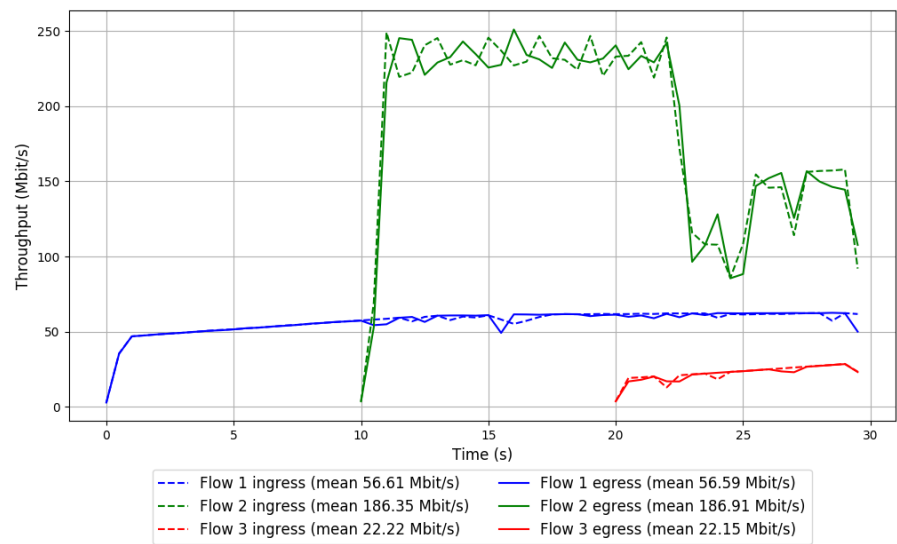
-- Flow 3:

Average throughput: 22.15 Mbit/s

95th percentile per-packet one-way delay: 54.393 ms

Loss rate: 1.33%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-09-22 07:40:32

End at: 2017-09-22 07:41:02

Below is generated by plot.py at 2017-09-22 12:26:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 151.77 Mbit/s

95th percentile per-packet one-way delay: 53.151 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 16.36 Mbit/s

95th percentile per-packet one-way delay: 51.058 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 160.89 Mbit/s

95th percentile per-packet one-way delay: 51.935 ms

Loss rate: 0.50%

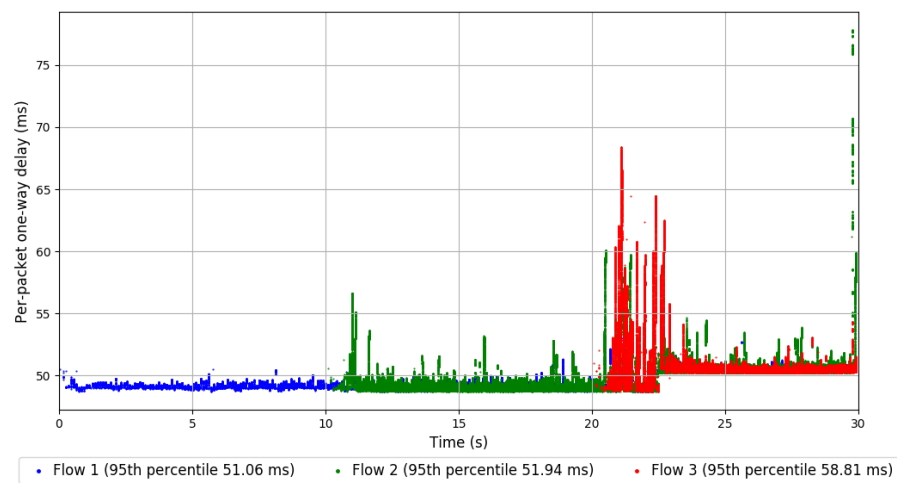
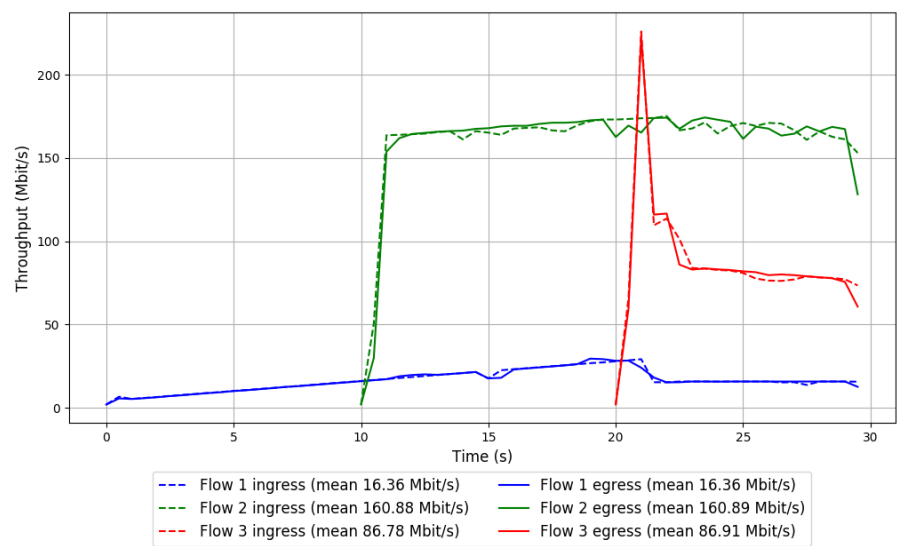
-- Flow 3:

Average throughput: 86.91 Mbit/s

95th percentile per-packet one-way delay: 58.812 ms

Loss rate: 0.88%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-09-22 07:53:14

End at: 2017-09-22 07:53:44

Below is generated by plot.py at 2017-09-22 12:26:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.70 Mbit/s

95th percentile per-packet one-way delay: 51.735 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 57.26 Mbit/s

95th percentile per-packet one-way delay: 51.394 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 73.88 Mbit/s

95th percentile per-packet one-way delay: 51.368 ms

Loss rate: 0.57%

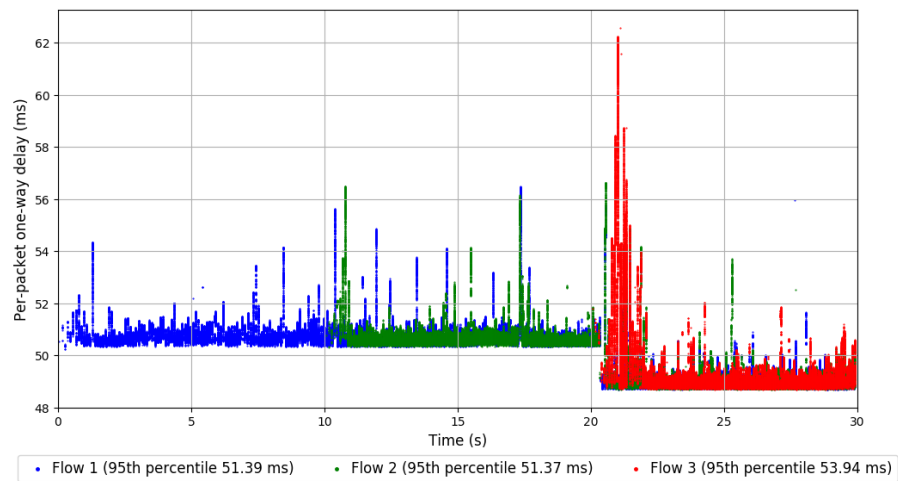
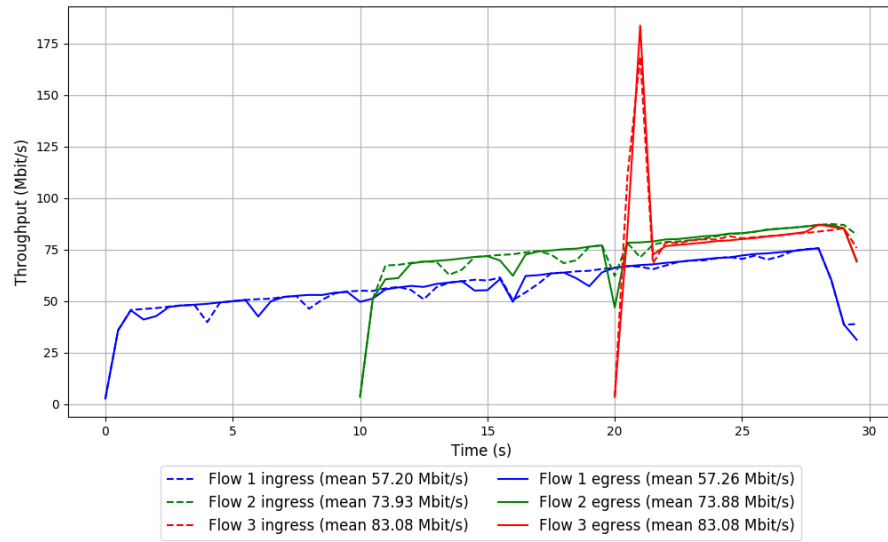
-- Flow 3:

Average throughput: 83.08 Mbit/s

95th percentile per-packet one-way delay: 53.941 ms

Loss rate: 1.03%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-09-22 08:06:12

End at: 2017-09-22 08:06:42

Below is generated by plot.py at 2017-09-22 12:26:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.09 Mbit/s

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

Loss rate: 0.58%

-- Flow 1:

Average throughput: 76.84 Mbit/s

95th percentile per-packet one-way delay: 51.869 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 38.75 Mbit/s

95th percentile per-packet one-way delay: 52.220 ms

Loss rate: 0.55%

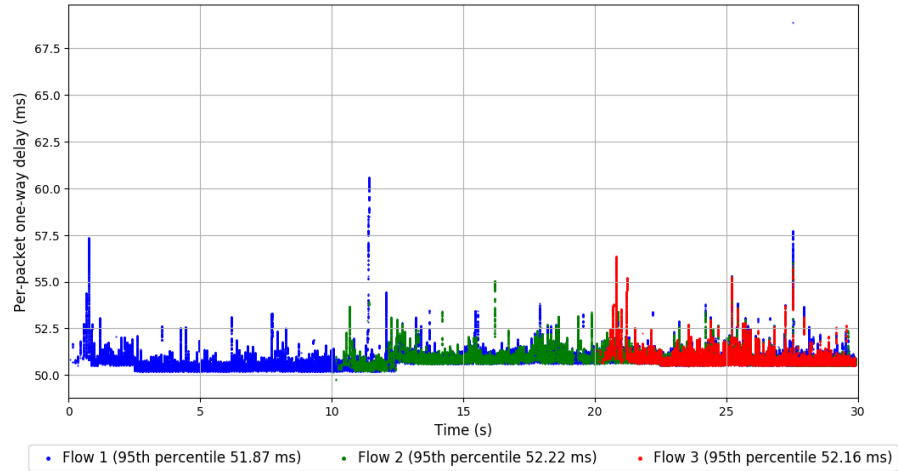
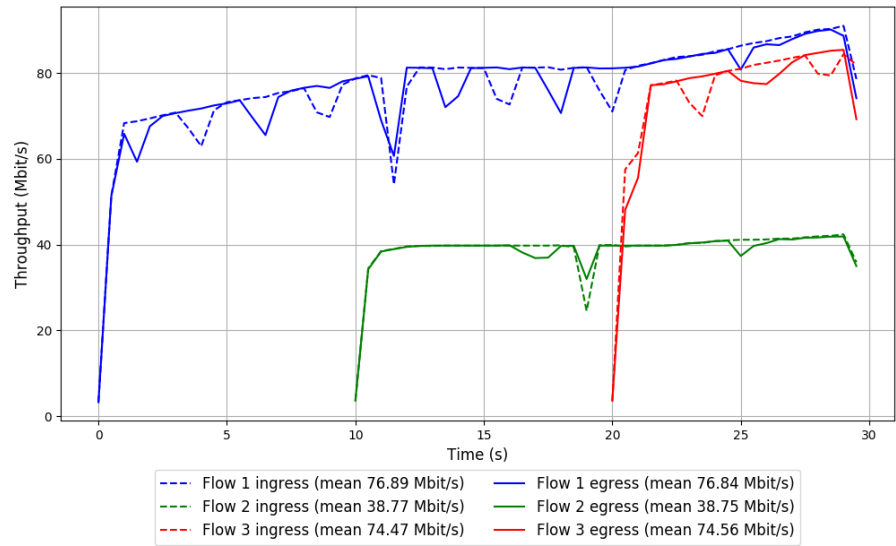
-- Flow 3:

Average throughput: 74.56 Mbit/s

95th percentile per-packet one-way delay: 52.163 ms

Loss rate: 1.17%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-09-22 08:19:02

End at: 2017-09-22 08:19:32

Below is generated by plot.py at 2017-09-22 12:26:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 132.62 Mbit/s

95th percentile per-packet one-way delay: 51.142 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 71.75 Mbit/s

95th percentile per-packet one-way delay: 50.868 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 55.58 Mbit/s

95th percentile per-packet one-way delay: 51.052 ms

Loss rate: 0.42%

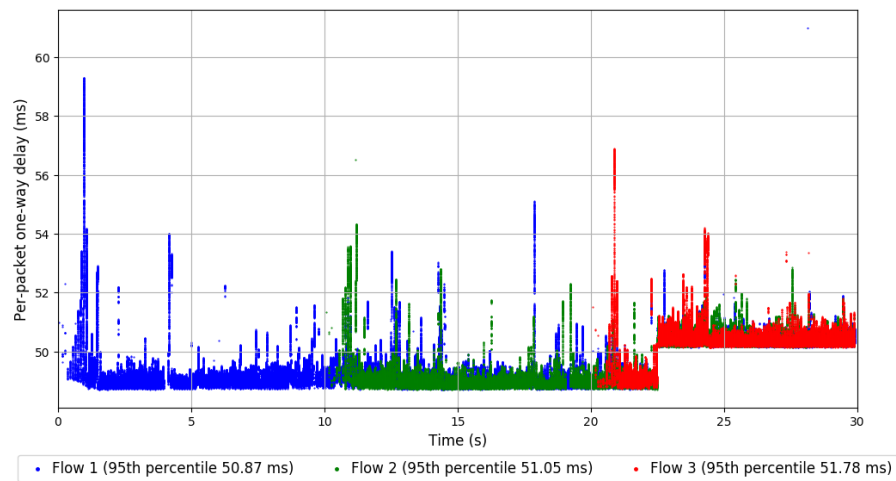
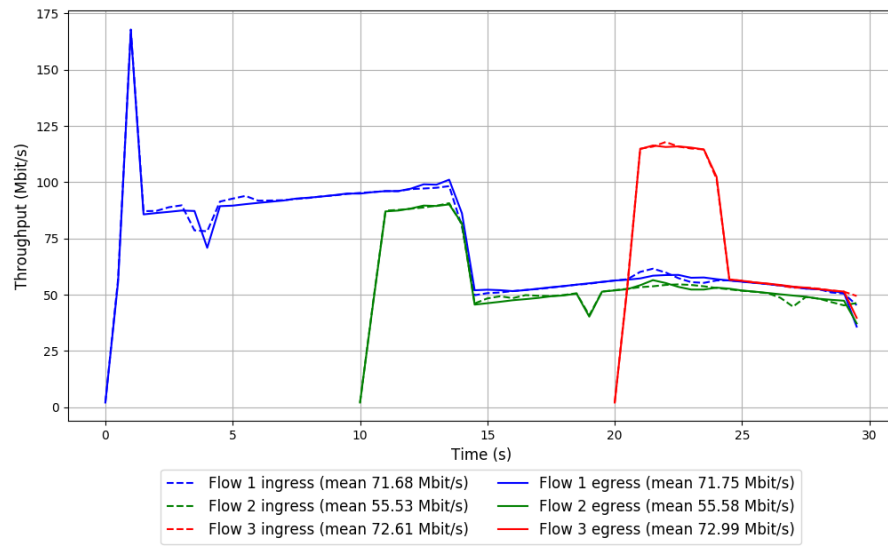
-- Flow 3:

Average throughput: 72.99 Mbit/s

95th percentile per-packet one-way delay: 51.784 ms

Loss rate: 0.72%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-09-22 08:31:40

End at: 2017-09-22 08:32:10

Below is generated by plot.py at 2017-09-22 12:26:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 181.35 Mbit/s

95th percentile per-packet one-way delay: 50.170 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 101.00 Mbit/s

95th percentile per-packet one-way delay: 50.148 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 117.85 Mbit/s

95th percentile per-packet one-way delay: 50.187 ms

Loss rate: 0.29%

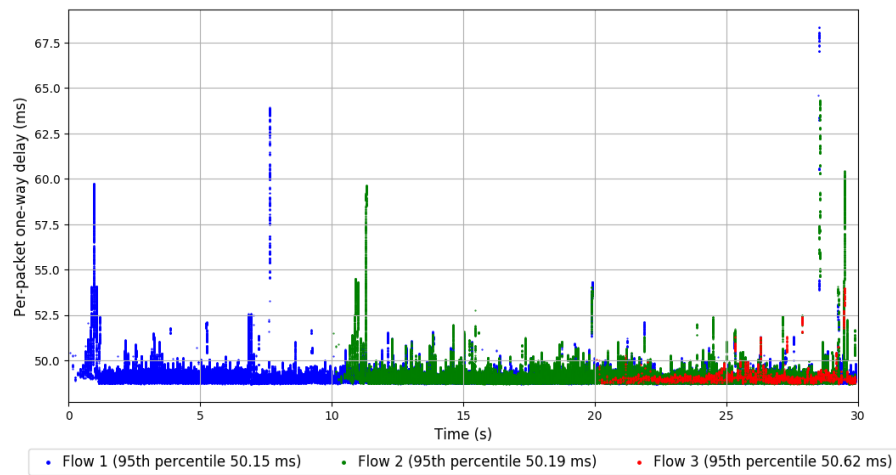
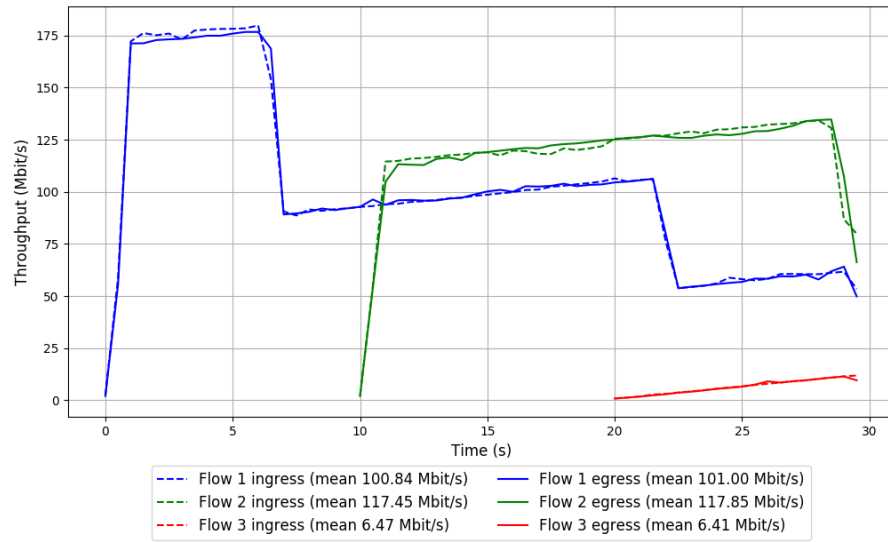
-- Flow 3:

Average throughput: 6.41 Mbit/s

95th percentile per-packet one-way delay: 50.616 ms

Loss rate: 1.96%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-09-22 08:44:23

End at: 2017-09-22 08:44:53

Below is generated by plot.py at 2017-09-22 12:26:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 161.01 Mbit/s

95th percentile per-packet one-way delay: 51.376 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 122.11 Mbit/s

95th percentile per-packet one-way delay: 51.451 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 26.96 Mbit/s

95th percentile per-packet one-way delay: 50.988 ms

Loss rate: 0.55%

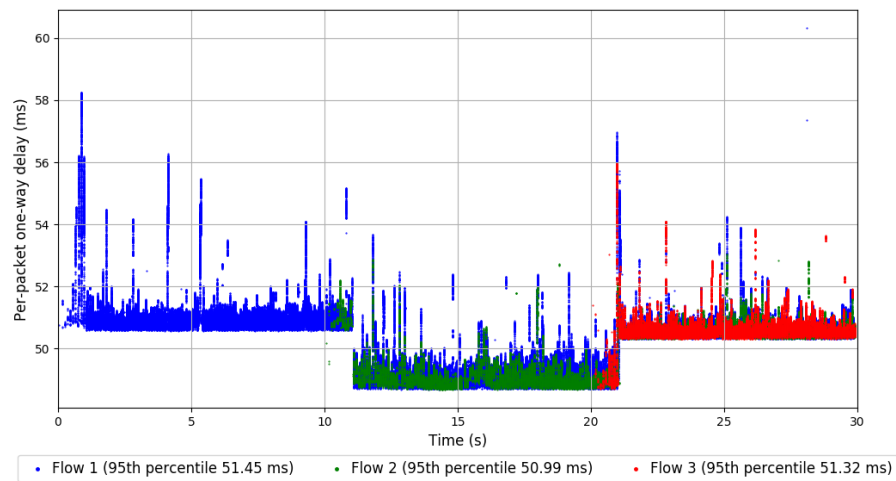
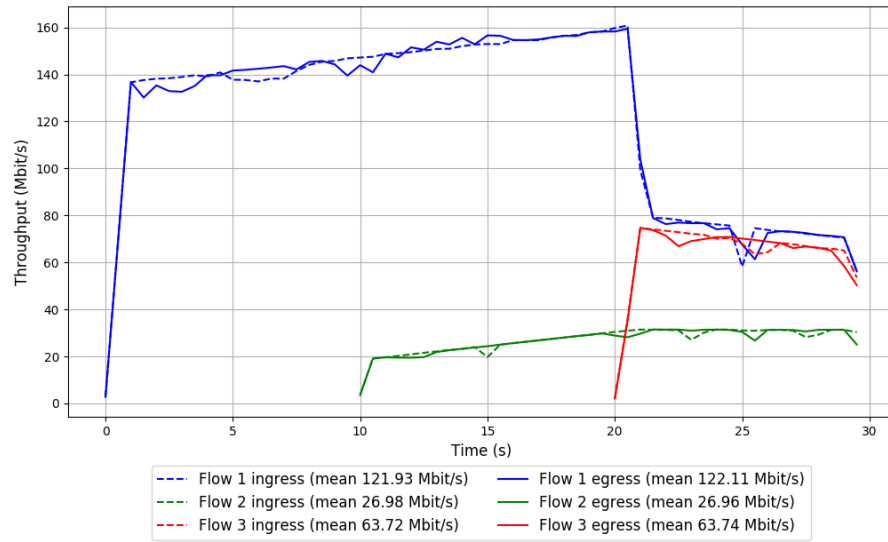
-- Flow 3:

Average throughput: 63.74 Mbit/s

95th percentile per-packet one-way delay: 51.322 ms

Loss rate: 0.98%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-09-22 08:57:12

End at: 2017-09-22 08:57:42

Below is generated by plot.py at 2017-09-22 12:26:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.73 Mbit/s

95th percentile per-packet one-way delay: 51.934 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 39.62 Mbit/s

95th percentile per-packet one-way delay: 52.099 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 74.00 Mbit/s

95th percentile per-packet one-way delay: 52.029 ms

Loss rate: 0.39%

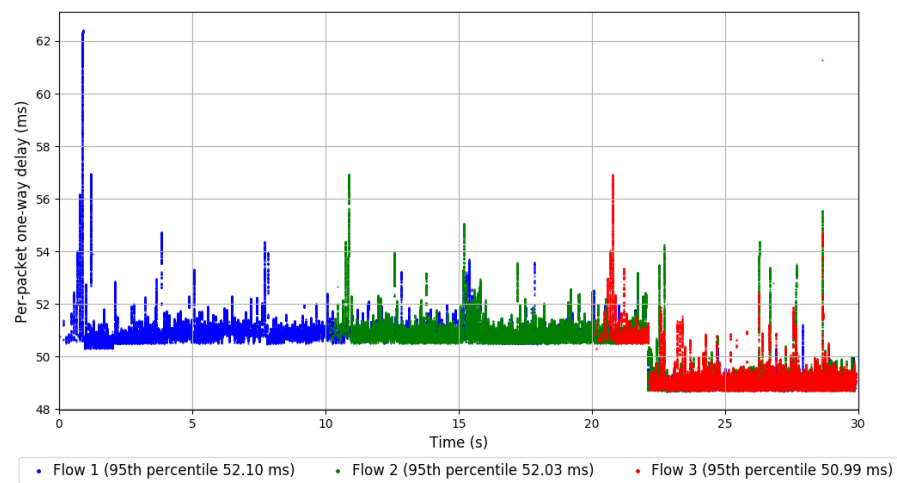
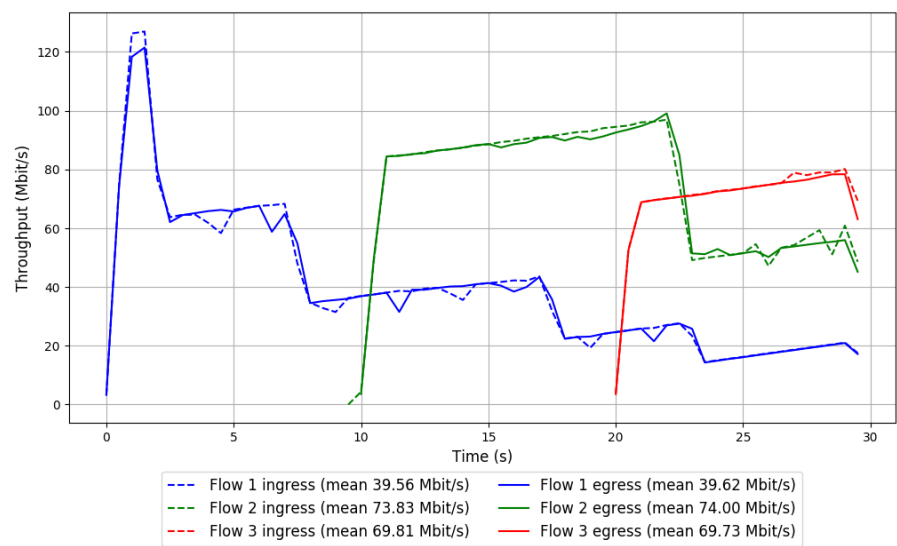
-- Flow 3:

Average throughput: 69.73 Mbit/s

95th percentile per-packet one-way delay: 50.988 ms

Loss rate: 1.14%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-09-22 09:09:57

End at: 2017-09-22 09:10:27

Below is generated by plot.py at 2017-09-22 12:26:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.08 Mbit/s

95th percentile per-packet one-way delay: 51.575 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 62.42 Mbit/s

95th percentile per-packet one-way delay: 52.197 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 34.50 Mbit/s

95th percentile per-packet one-way delay: 51.533 ms

Loss rate: 0.54%

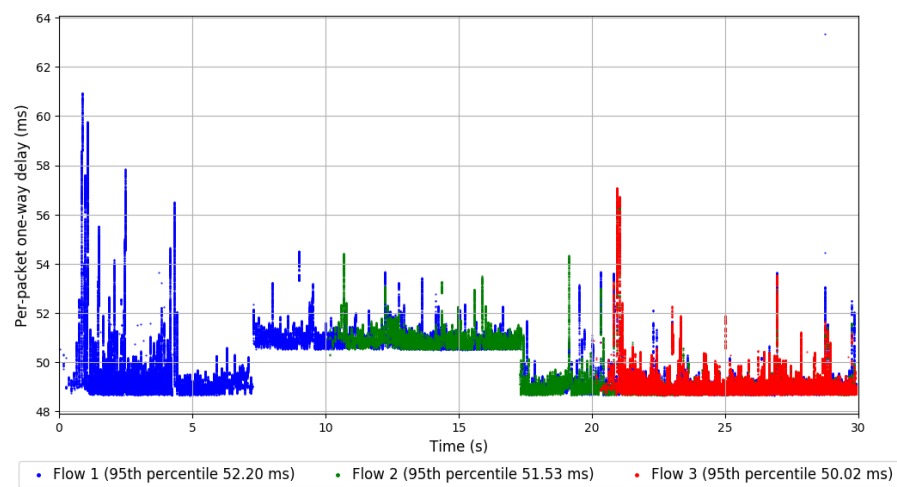
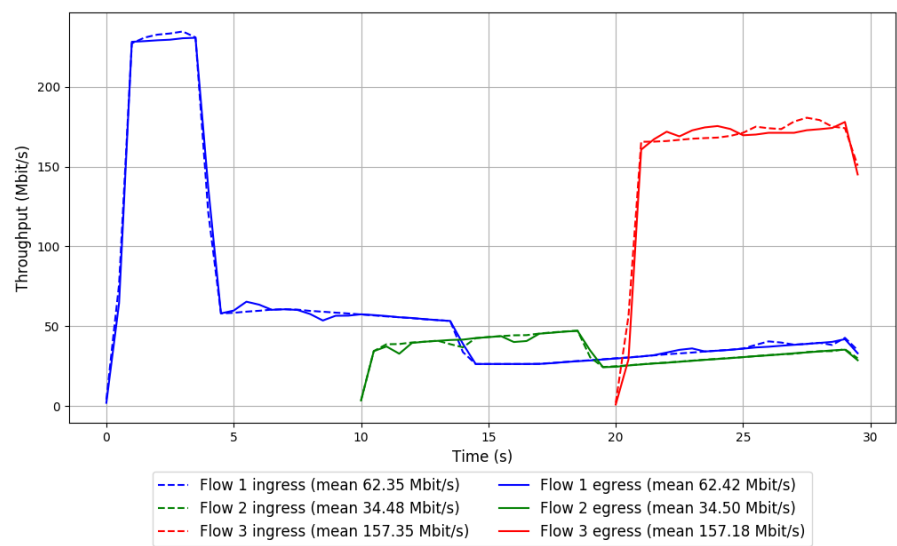
-- Flow 3:

Average throughput: 157.18 Mbit/s

95th percentile per-packet one-way delay: 50.023 ms

Loss rate: 1.12%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-09-22 09:22:39

End at: 2017-09-22 09:23:09

Below is generated by plot.py at 2017-09-22 12:26:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.95 Mbit/s

95th percentile per-packet one-way delay: 52.079 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 34.20 Mbit/s

95th percentile per-packet one-way delay: 51.435 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 81.19 Mbit/s

95th percentile per-packet one-way delay: 52.672 ms

Loss rate: 0.55%

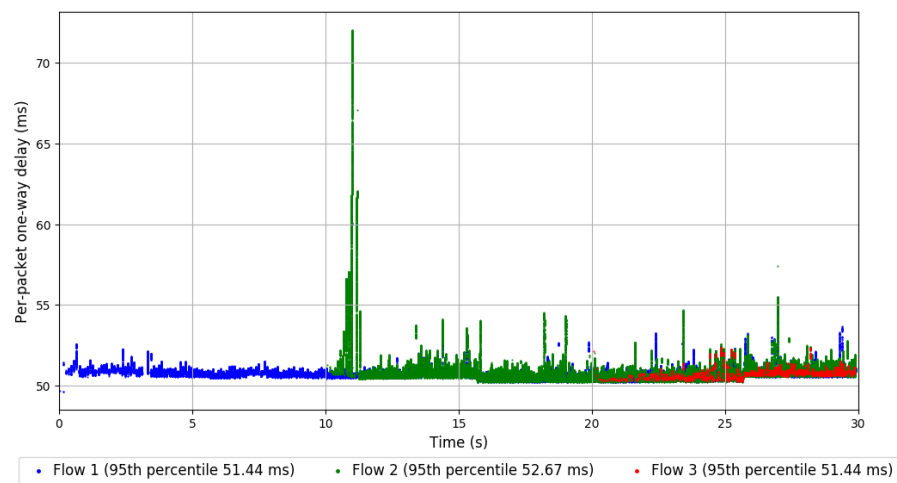
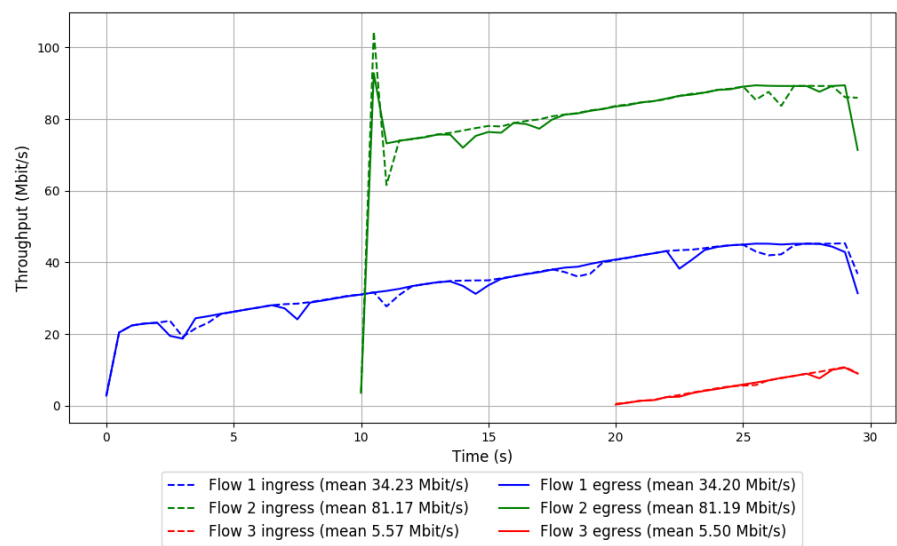
-- Flow 3:

Average throughput: 5.50 Mbit/s

95th percentile per-packet one-way delay: 51.437 ms

Loss rate: 2.26%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-09-22 07:26:53

End at: 2017-09-22 07:27:23

Below is generated by plot.py at 2017-09-22 12:31:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 383.60 Mbit/s

95th percentile per-packet one-way delay: 205.218 ms

Loss rate: 5.70%

-- Flow 1:

Average throughput: 227.58 Mbit/s

95th percentile per-packet one-way delay: 185.762 ms

Loss rate: 4.49%

-- Flow 2:

Average throughput: 143.75 Mbit/s

95th percentile per-packet one-way delay: 145.109 ms

Loss rate: 1.86%

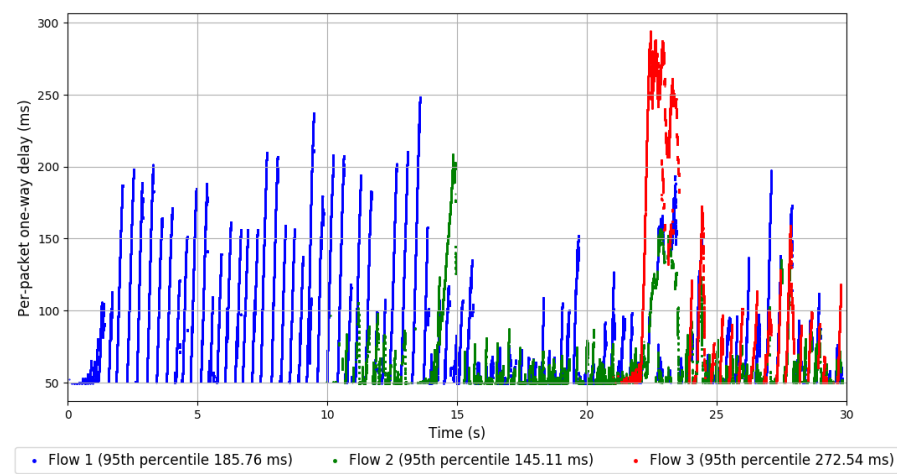
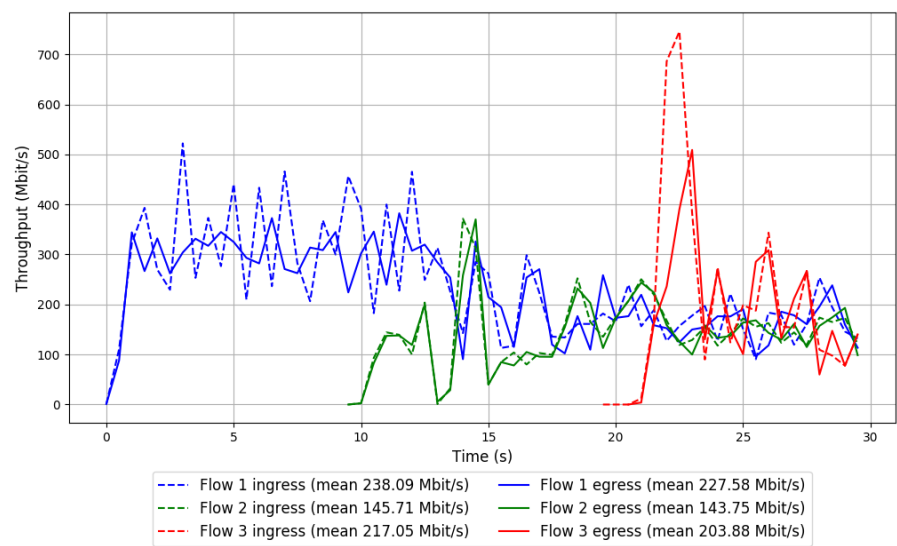
-- Flow 3:

Average throughput: 203.88 Mbit/s

95th percentile per-packet one-way delay: 272.541 ms

Loss rate: 15.06%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-09-22 07:39:23

End at: 2017-09-22 07:39:53

Below is generated by plot.py at 2017-09-22 12:32:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 382.91 Mbit/s

95th percentile per-packet one-way delay: 141.076 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 256.40 Mbit/s

95th percentile per-packet one-way delay: 129.604 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 129.87 Mbit/s

95th percentile per-packet one-way delay: 150.741 ms

Loss rate: 0.33%

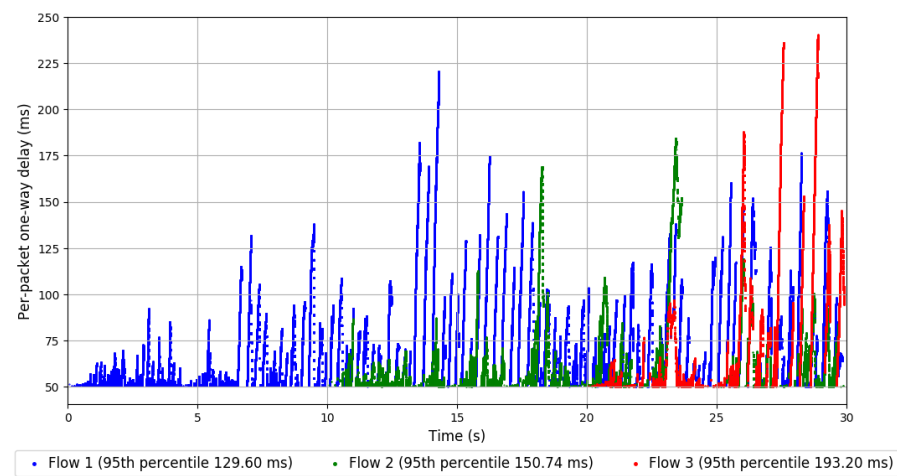
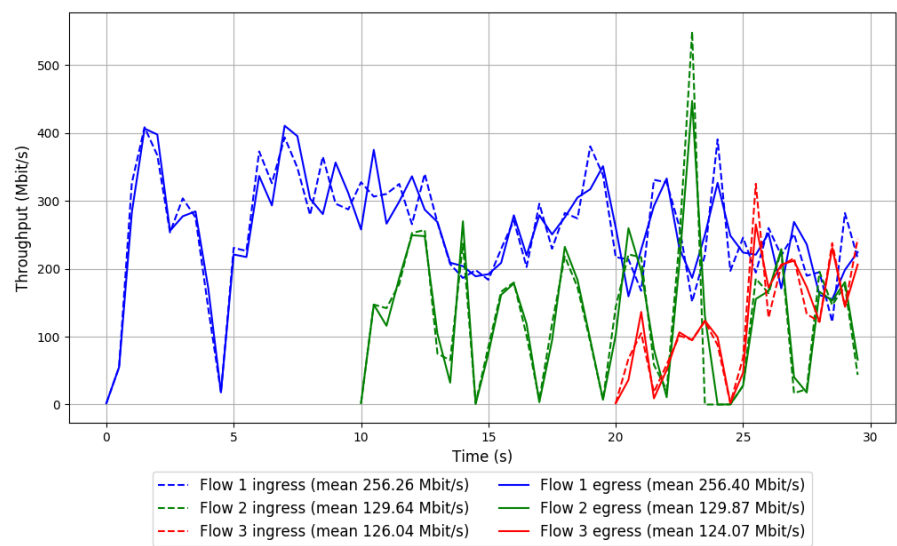
-- Flow 3:

Average throughput: 124.07 Mbit/s

95th percentile per-packet one-way delay: 193.199 ms

Loss rate: 1.81%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-09-22 07:52:04

End at: 2017-09-22 07:52:34

Below is generated by plot.py at 2017-09-22 12:33:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 410.86 Mbit/s

95th percentile per-packet one-way delay: 118.719 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 228.78 Mbit/s

95th percentile per-packet one-way delay: 115.024 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 188.71 Mbit/s

95th percentile per-packet one-way delay: 111.356 ms

Loss rate: 0.97%

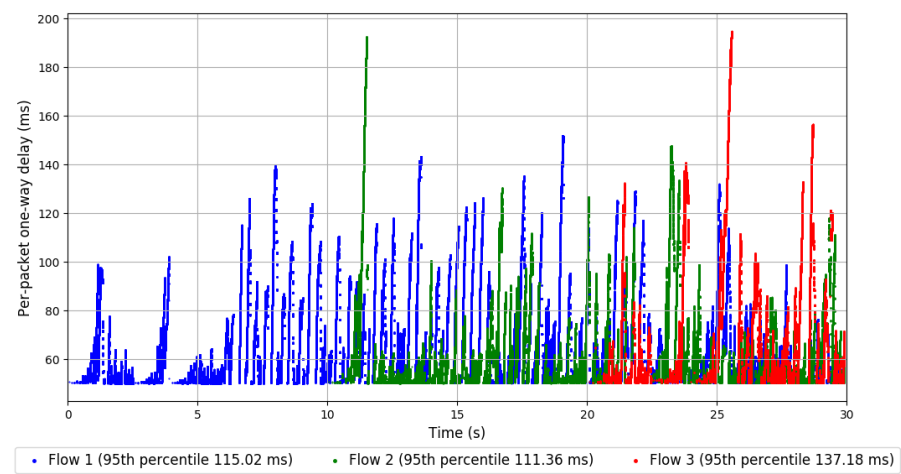
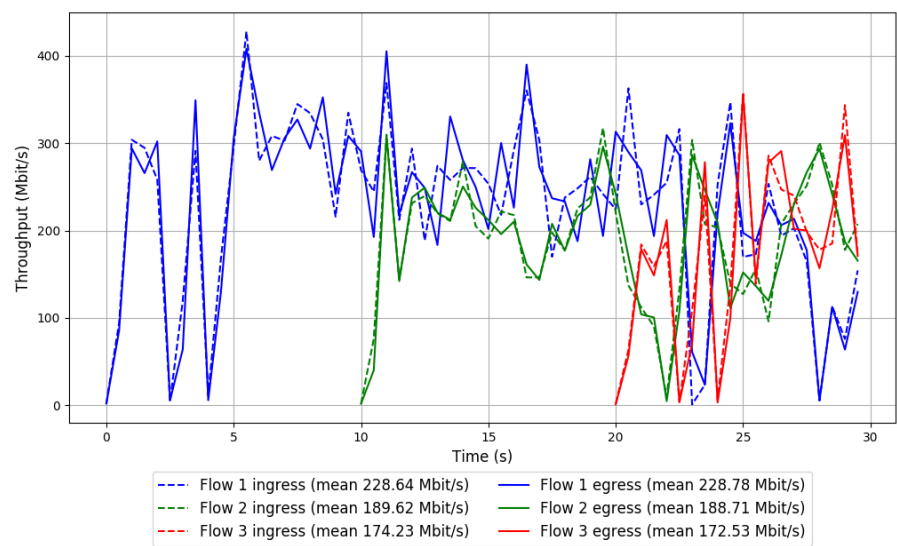
-- Flow 3:

Average throughput: 172.53 Mbit/s

95th percentile per-packet one-way delay: 137.176 ms

Loss rate: 1.60%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-09-22 08:05:04

End at: 2017-09-22 08:05:34

Below is generated by plot.py at 2017-09-22 12:33:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 376.04 Mbit/s

95th percentile per-packet one-way delay: 130.149 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 186.19 Mbit/s

95th percentile per-packet one-way delay: 100.621 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 205.06 Mbit/s

95th percentile per-packet one-way delay: 146.109 ms

Loss rate: 0.86%

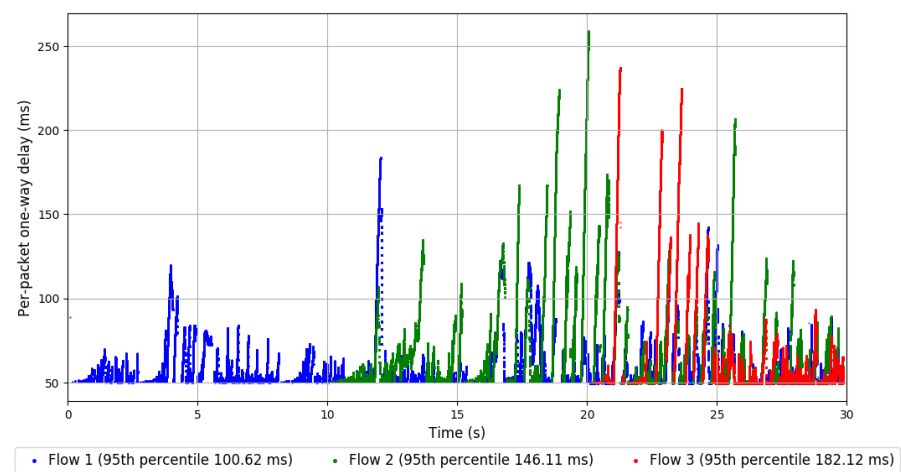
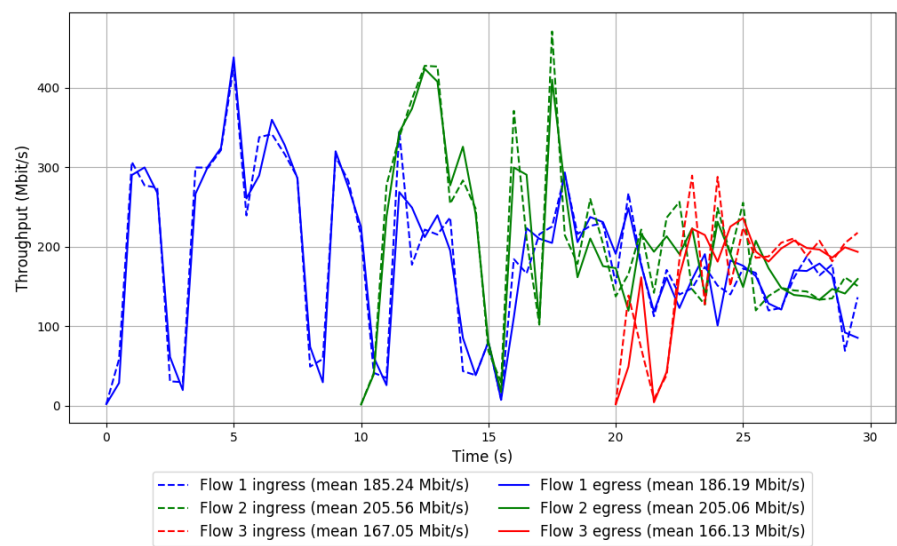
-- Flow 3:

Average throughput: 166.13 Mbit/s

95th percentile per-packet one-way delay: 182.125 ms

Loss rate: 1.65%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-09-22 08:17:54

End at: 2017-09-22 08:18:24

Below is generated by plot.py at 2017-09-22 12:33:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 378.40 Mbit/s

95th percentile per-packet one-way delay: 122.581 ms

Loss rate: 1.57%

-- Flow 1:

Average throughput: 188.80 Mbit/s

95th percentile per-packet one-way delay: 134.031 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 192.13 Mbit/s

95th percentile per-packet one-way delay: 121.418 ms

Loss rate: 2.11%

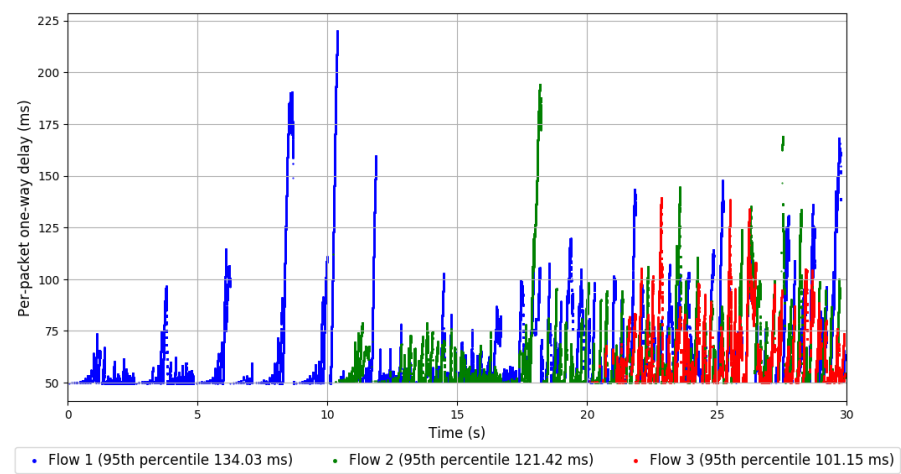
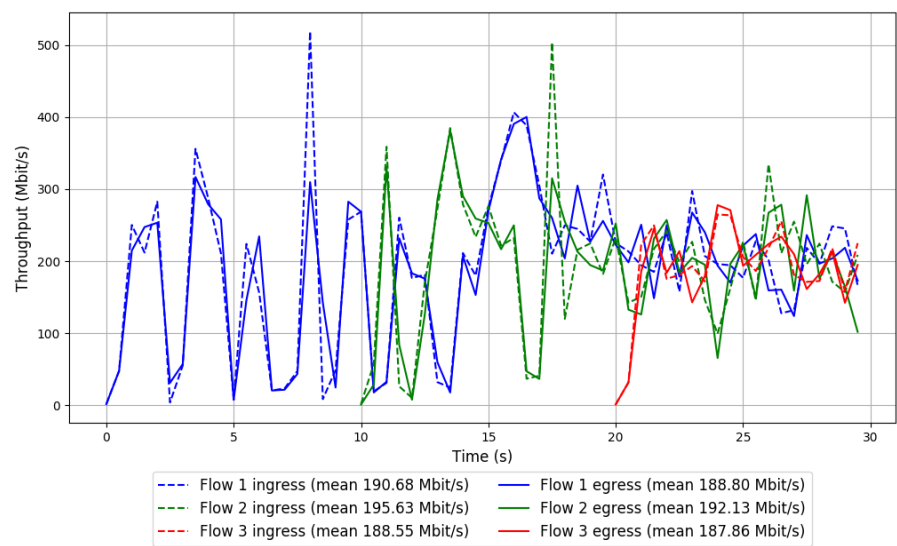
-- Flow 3:

Average throughput: 187.86 Mbit/s

95th percentile per-packet one-way delay: 101.150 ms

Loss rate: 1.37%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-09-22 08:30:34

End at: 2017-09-22 08:31:04

Below is generated by plot.py at 2017-09-22 12:33:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 358.99 Mbit/s

95th percentile per-packet one-way delay: 191.496 ms

Loss rate: 3.95%

-- Flow 1:

Average throughput: 236.77 Mbit/s

95th percentile per-packet one-way delay: 161.432 ms

Loss rate: 1.77%

-- Flow 2:

Average throughput: 125.58 Mbit/s

95th percentile per-packet one-way delay: 112.946 ms

Loss rate: 0.05%

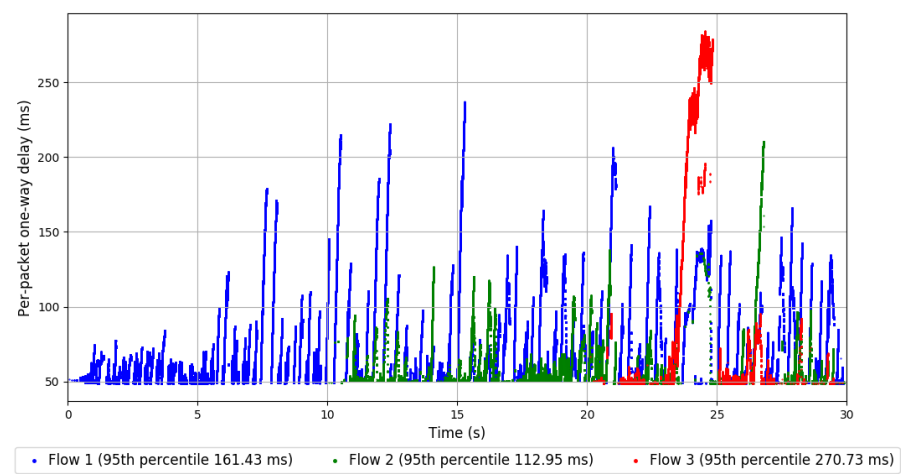
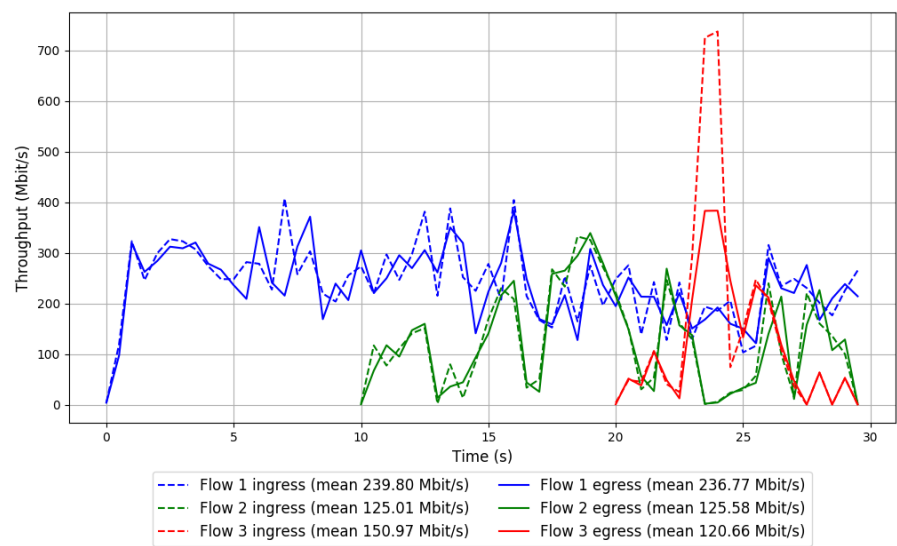
-- Flow 3:

Average throughput: 120.66 Mbit/s

95th percentile per-packet one-way delay: 270.732 ms

Loss rate: 21.04%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-09-22 08:43:12

End at: 2017-09-22 08:43:42

Below is generated by plot.py at 2017-09-22 12:34:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 419.28 Mbit/s

95th percentile per-packet one-way delay: 95.291 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 227.17 Mbit/s

95th percentile per-packet one-way delay: 96.395 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 208.56 Mbit/s

95th percentile per-packet one-way delay: 94.674 ms

Loss rate: 0.72%

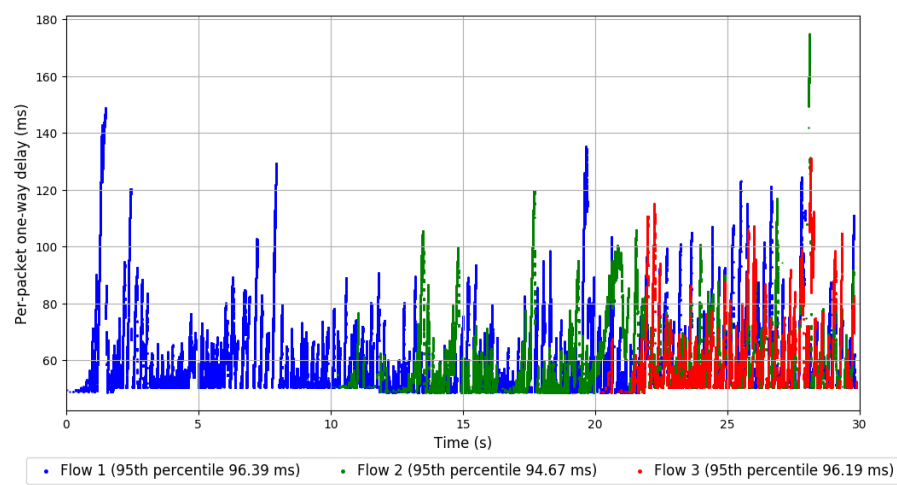
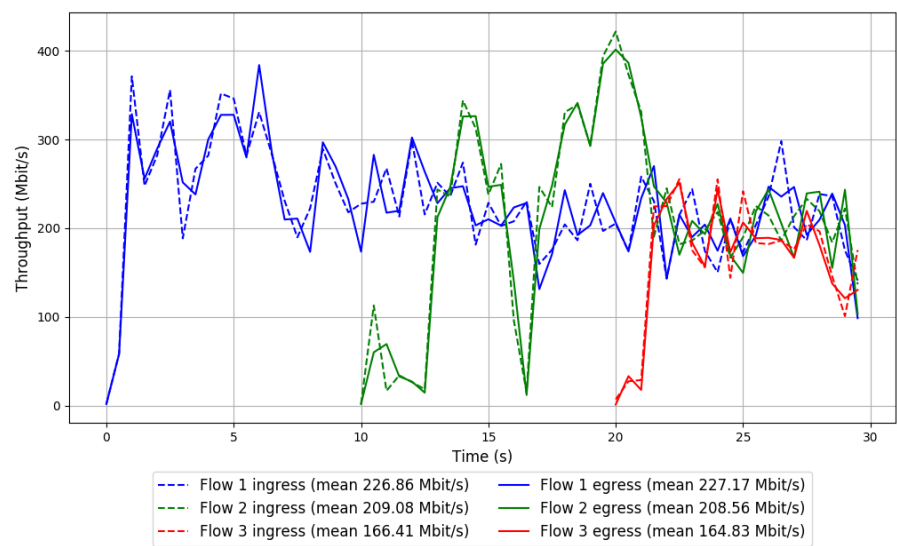
-- Flow 3:

Average throughput: 164.83 Mbit/s

95th percentile per-packet one-way delay: 96.186 ms

Loss rate: 2.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-09-22 08:56:03

End at: 2017-09-22 08:56:33

Below is generated by plot.py at 2017-09-22 12:34:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 405.73 Mbit/s

95th percentile per-packet one-way delay: 134.774 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 240.64 Mbit/s

95th percentile per-packet one-way delay: 114.422 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 198.16 Mbit/s

95th percentile per-packet one-way delay: 153.348 ms

Loss rate: 0.85%

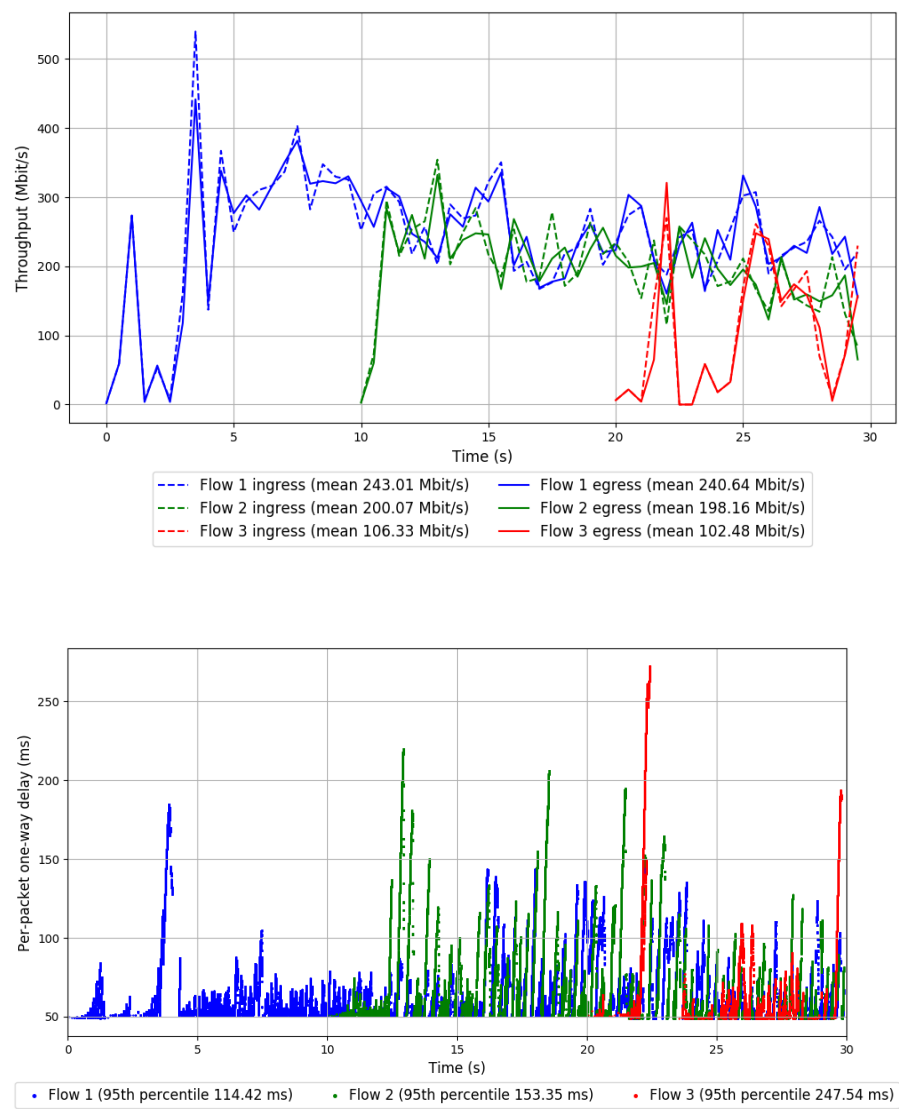
-- Flow 3:

Average throughput: 102.48 Mbit/s

95th percentile per-packet one-way delay: 247.537 ms

Loss rate: 5.51%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-09-22 09:08:49

End at: 2017-09-22 09:09:19

Below is generated by plot.py at 2017-09-22 12:39:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 378.00 Mbit/s

95th percentile per-packet one-way delay: 135.535 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 240.18 Mbit/s

95th percentile per-packet one-way delay: 99.367 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 138.75 Mbit/s

95th percentile per-packet one-way delay: 200.795 ms

Loss rate: 3.52%

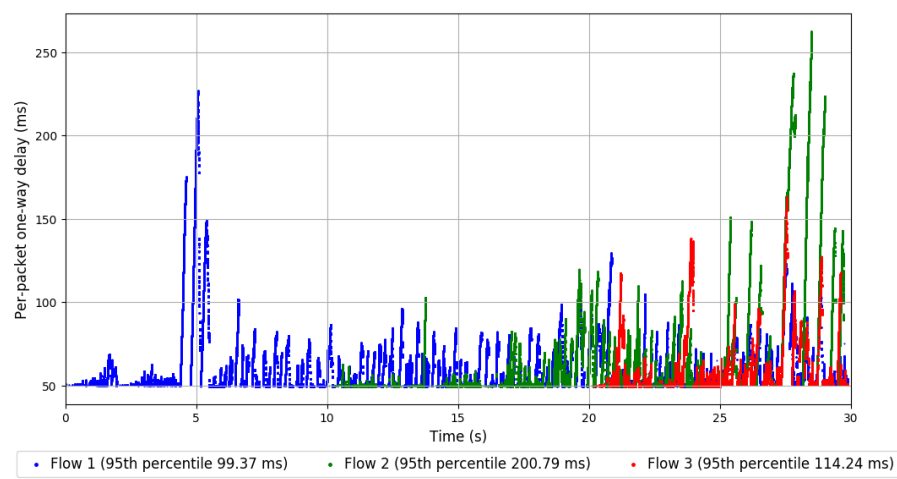
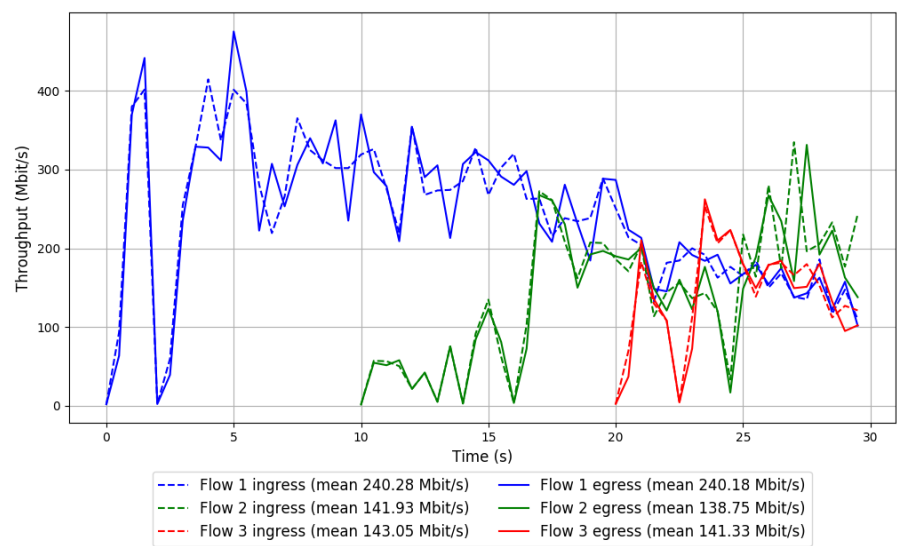
-- Flow 3:

Average throughput: 141.33 Mbit/s

95th percentile per-packet one-way delay: 114.238 ms

Loss rate: 2.21%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-09-22 09:21:29

End at: 2017-09-22 09:21:59

Below is generated by plot.py at 2017-09-22 12:39:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 420.06 Mbit/s

95th percentile per-packet one-way delay: 139.201 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 241.12 Mbit/s

95th percentile per-packet one-way delay: 122.277 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 197.14 Mbit/s

95th percentile per-packet one-way delay: 121.003 ms

Loss rate: 0.44%

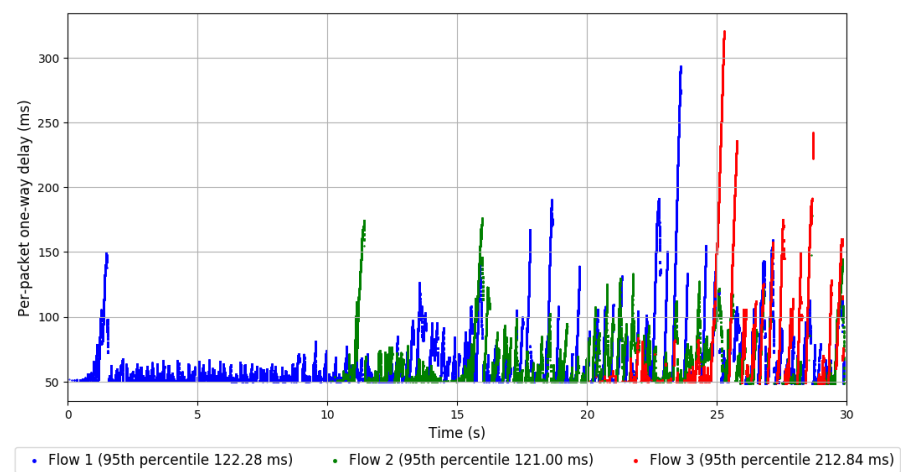
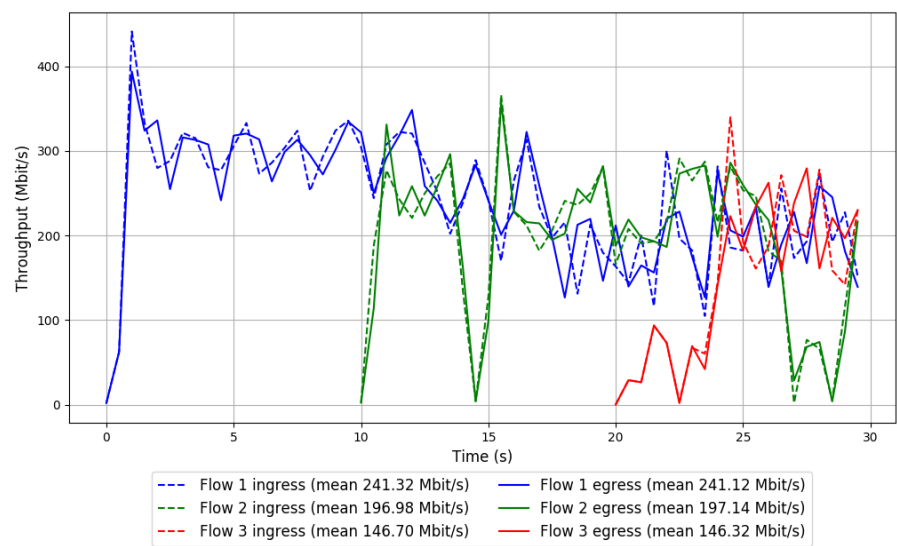
-- Flow 3:

Average throughput: 146.32 Mbit/s

95th percentile per-packet one-way delay: 212.842 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link

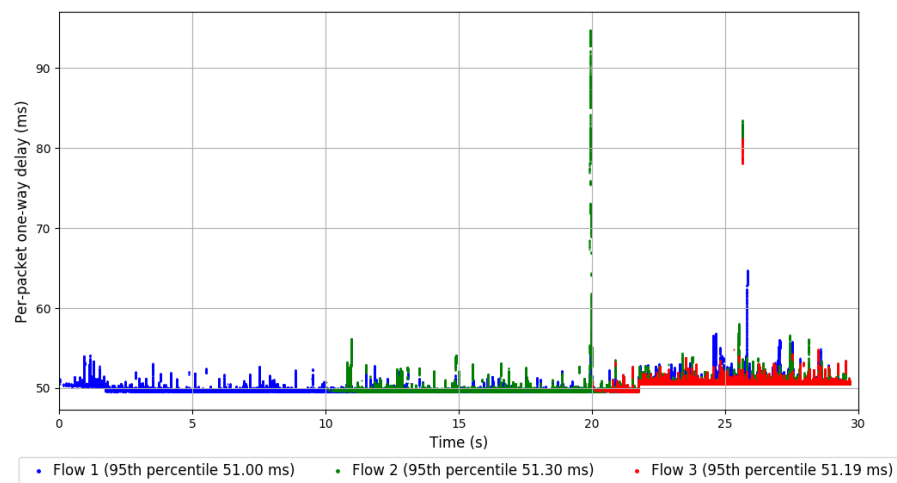
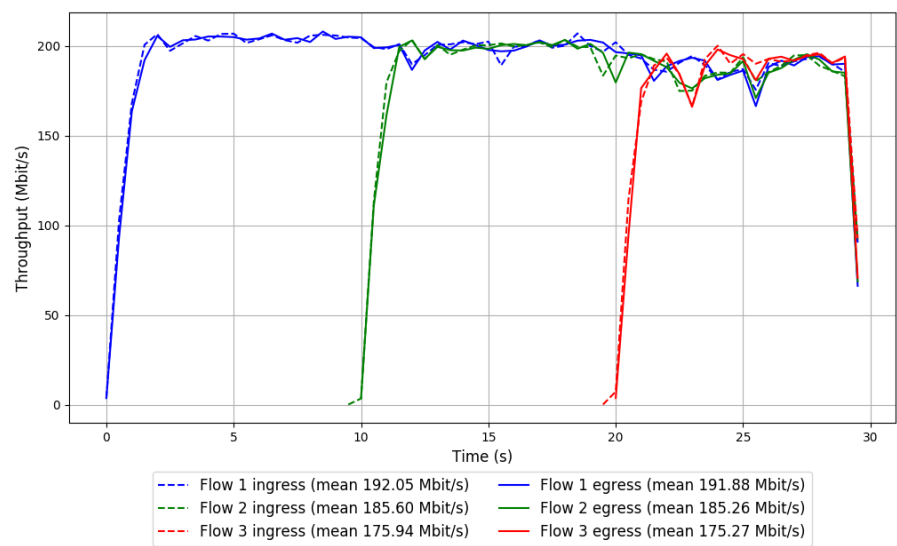


```
Run 1: Statistics of Indigo

Start at: 2017-09-22 07:17:12
End at: 2017-09-22 07:17:42

# Below is generated by plot.py at 2017-09-22 12:39:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 371.84 Mbit/s
95th percentile per-packet one-way delay: 51.131 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 191.88 Mbit/s
95th percentile per-packet one-way delay: 50.996 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 185.26 Mbit/s
95th percentile per-packet one-way delay: 51.300 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 175.27 Mbit/s
95th percentile per-packet one-way delay: 51.192 ms
Loss rate: 1.44%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-09-22 07:30:12

End at: 2017-09-22 07:30:42

Below is generated by plot.py at 2017-09-22 12:39:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 363.54 Mbit/s

95th percentile per-packet one-way delay: 51.364 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 183.51 Mbit/s

95th percentile per-packet one-way delay: 51.141 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 185.34 Mbit/s

95th percentile per-packet one-way delay: 51.632 ms

Loss rate: 0.55%

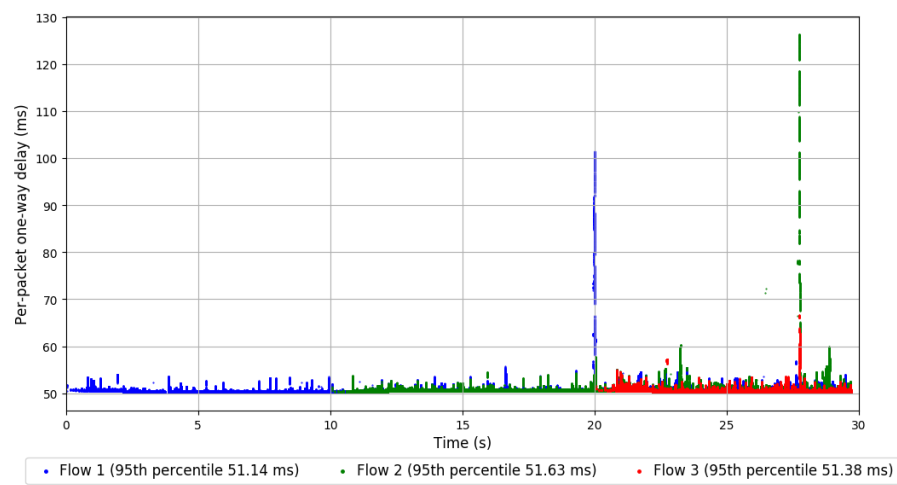
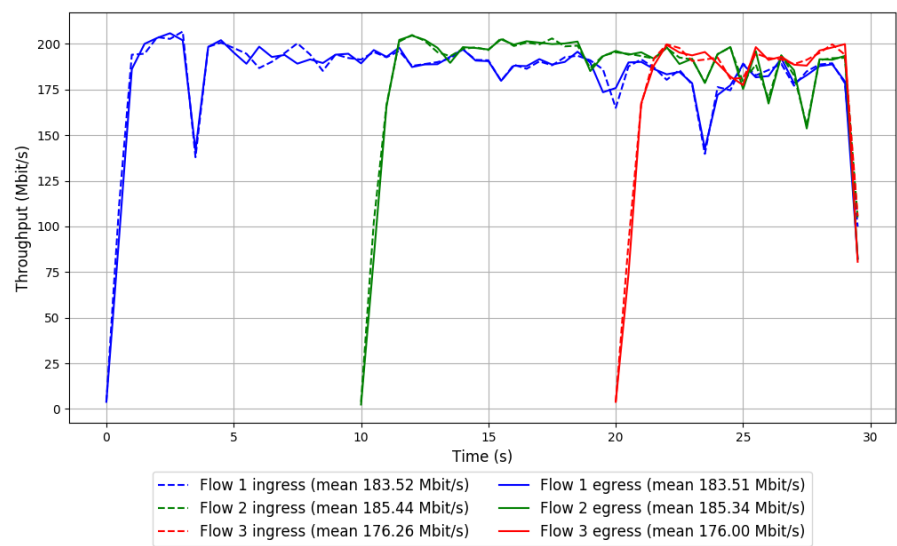
-- Flow 3:

Average throughput: 176.00 Mbit/s

95th percentile per-packet one-way delay: 51.376 ms

Loss rate: 1.18%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-09-22 07:42:40

End at: 2017-09-22 07:43:10

Below is generated by plot.py at 2017-09-22 12:39:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 369.05 Mbit/s

95th percentile per-packet one-way delay: 51.284 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 189.16 Mbit/s

95th percentile per-packet one-way delay: 51.166 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 184.87 Mbit/s

95th percentile per-packet one-way delay: 51.459 ms

Loss rate: 0.57%

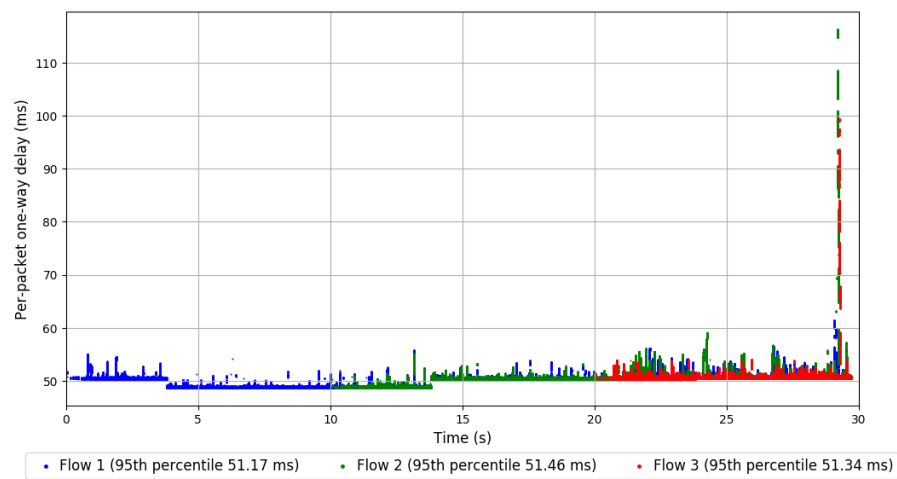
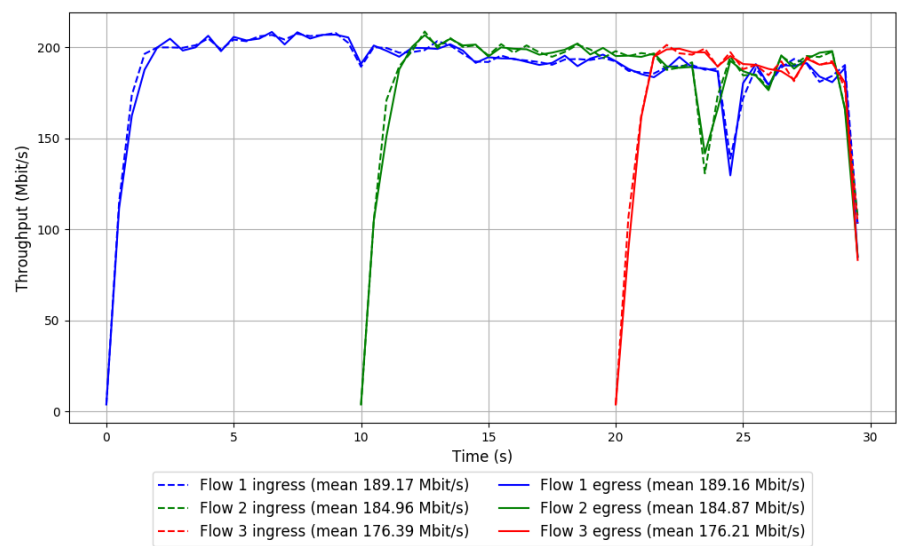
-- Flow 3:

Average throughput: 176.21 Mbit/s

95th percentile per-packet one-way delay: 51.335 ms

Loss rate: 1.12%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-09-22 07:55:21

End at: 2017-09-22 07:55:51

Below is generated by plot.py at 2017-09-22 12:40:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 372.56 Mbit/s

95th percentile per-packet one-way delay: 51.101 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 190.03 Mbit/s

95th percentile per-packet one-way delay: 50.878 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 187.90 Mbit/s

95th percentile per-packet one-way delay: 51.759 ms

Loss rate: 0.53%

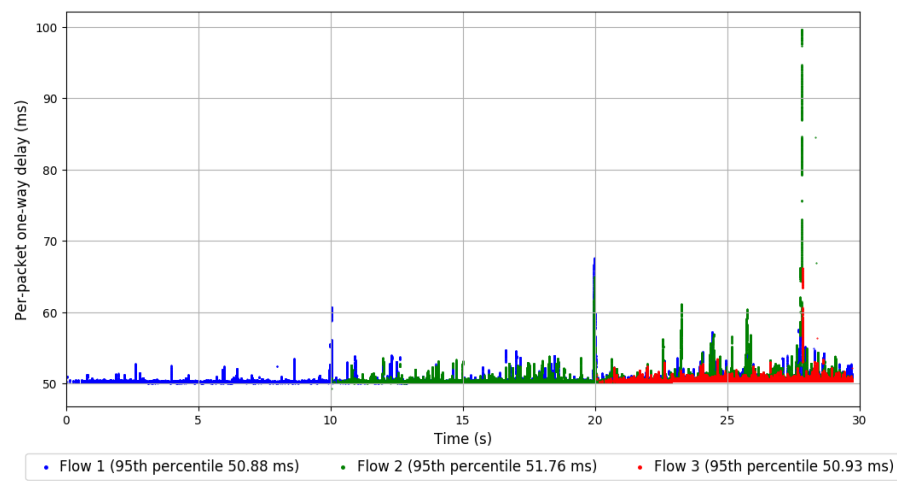
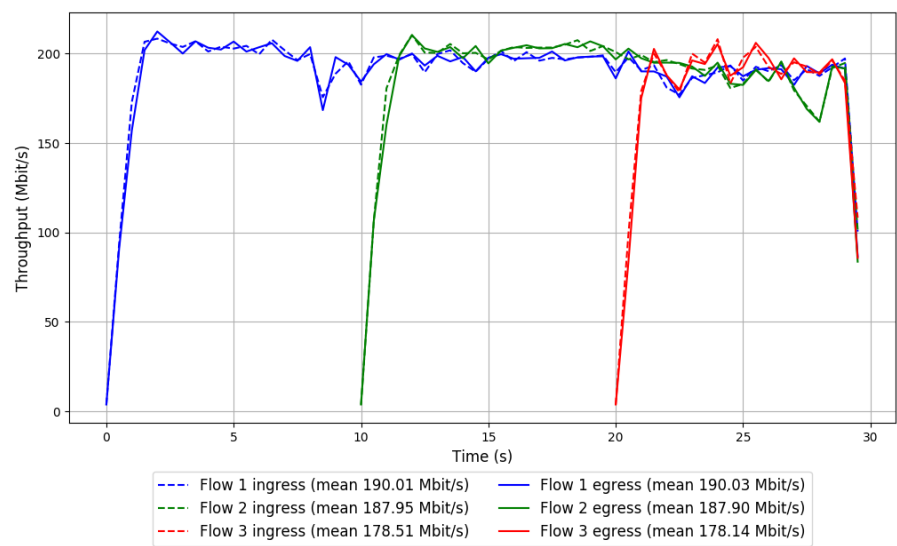
-- Flow 3:

Average throughput: 178.14 Mbit/s

95th percentile per-packet one-way delay: 50.930 ms

Loss rate: 1.23%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-09-22 08:08:19

End at: 2017-09-22 08:08:49

Below is generated by plot.py at 2017-09-22 12:41:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 371.22 Mbit/s

95th percentile per-packet one-way delay: 51.276 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 188.51 Mbit/s

95th percentile per-packet one-way delay: 51.180 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 190.26 Mbit/s

95th percentile per-packet one-way delay: 51.435 ms

Loss rate: 0.50%

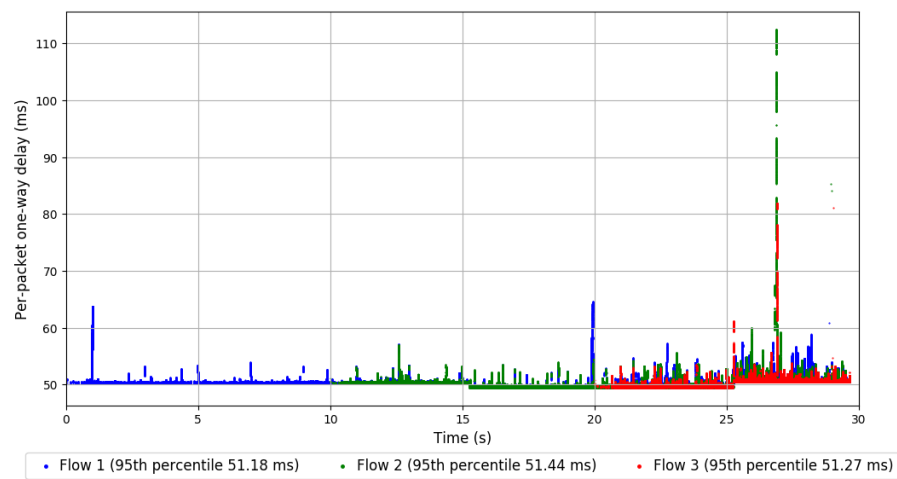
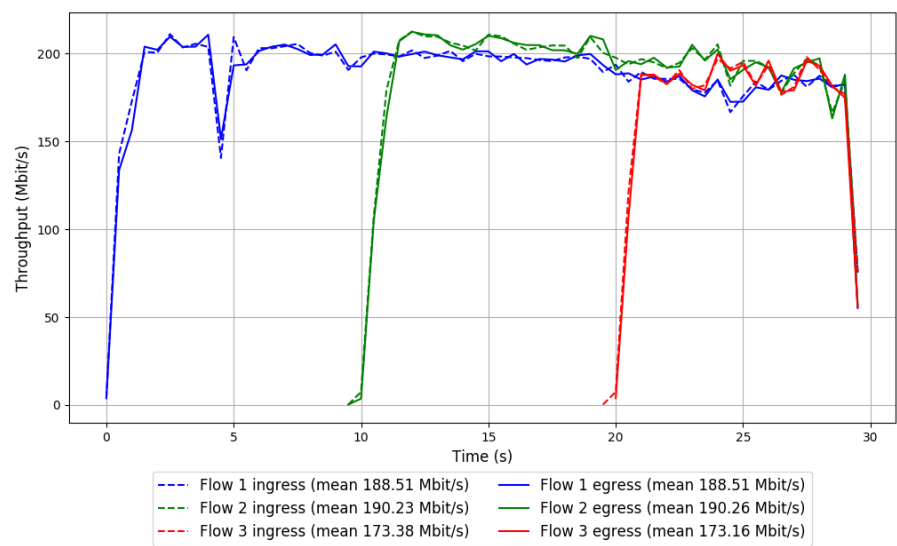
-- Flow 3:

Average throughput: 173.16 Mbit/s

95th percentile per-packet one-way delay: 51.273 ms

Loss rate: 1.18%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-09-22 08:21:09

End at: 2017-09-22 08:21:39

Below is generated by plot.py at 2017-09-22 12:41:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 372.74 Mbit/s

95th percentile per-packet one-way delay: 50.919 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 191.33 Mbit/s

95th percentile per-packet one-way delay: 50.899 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 187.39 Mbit/s

95th percentile per-packet one-way delay: 51.267 ms

Loss rate: 0.55%

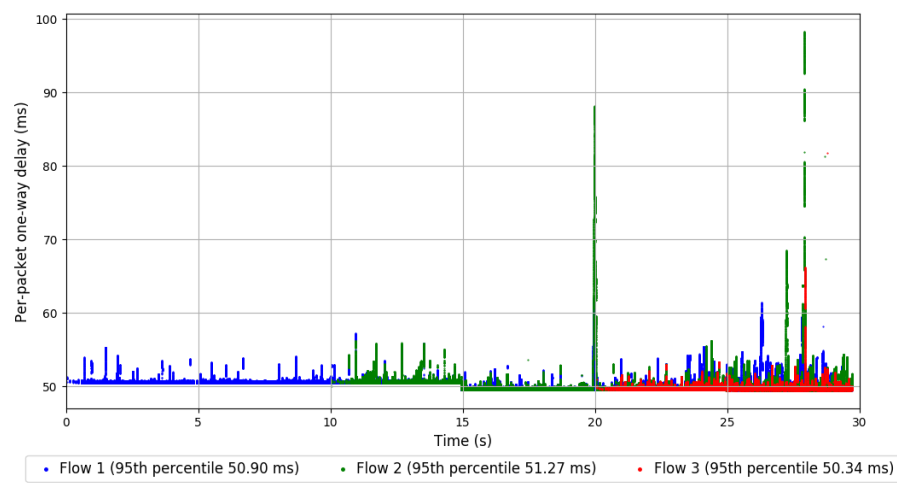
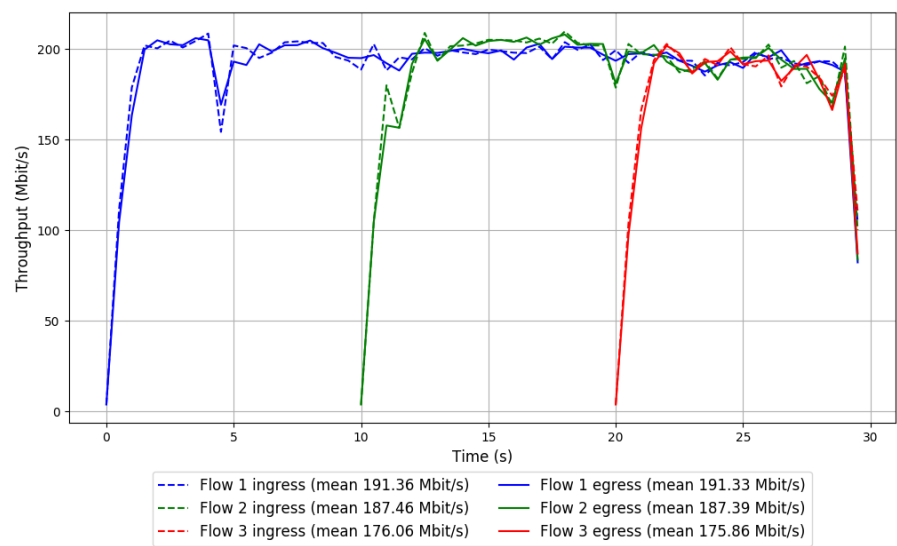
-- Flow 3:

Average throughput: 175.86 Mbit/s

95th percentile per-packet one-way delay: 50.336 ms

Loss rate: 1.19%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-09-22 08:33:50

End at: 2017-09-22 08:34:20

Below is generated by plot.py at 2017-09-22 12:45:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 373.54 Mbit/s

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

Loss rate: 0.51%

-- Flow 1:

Average throughput: 192.34 Mbit/s

95th percentile per-packet one-way delay: 50.715 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 187.23 Mbit/s

95th percentile per-packet one-way delay: 50.445 ms

Loss rate: 0.52%

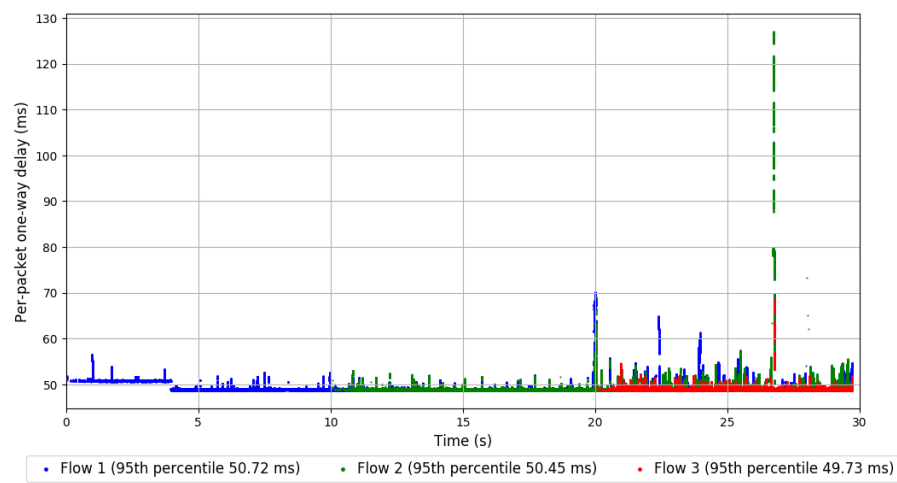
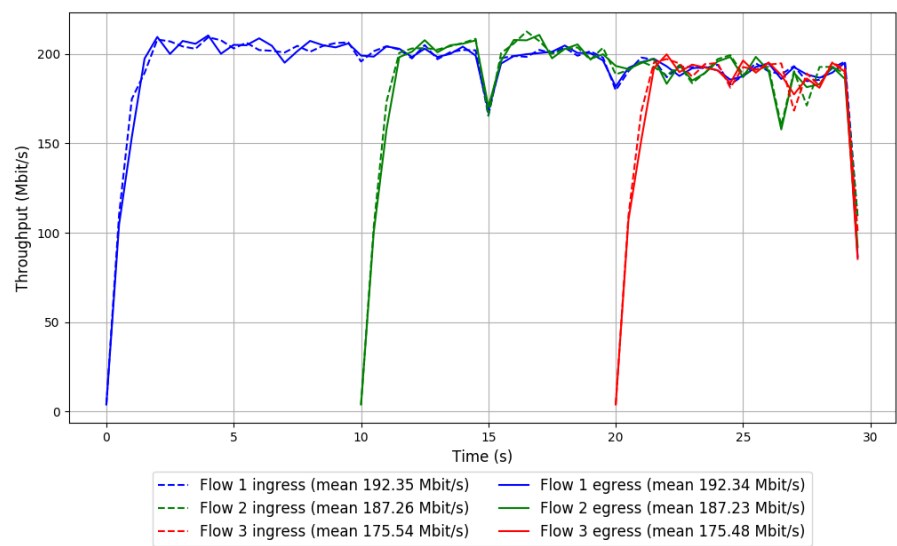
-- Flow 3:

Average throughput: 175.48 Mbit/s

95th percentile per-packet one-way delay: 49.729 ms

Loss rate: 1.05%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-09-22 08:46:32

End at: 2017-09-22 08:47:02

Below is generated by plot.py at 2017-09-22 12:46:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 368.32 Mbit/s

95th percentile per-packet one-way delay: 51.290 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 189.40 Mbit/s

95th percentile per-packet one-way delay: 50.972 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 183.23 Mbit/s

95th percentile per-packet one-way delay: 51.991 ms

Loss rate: 0.56%

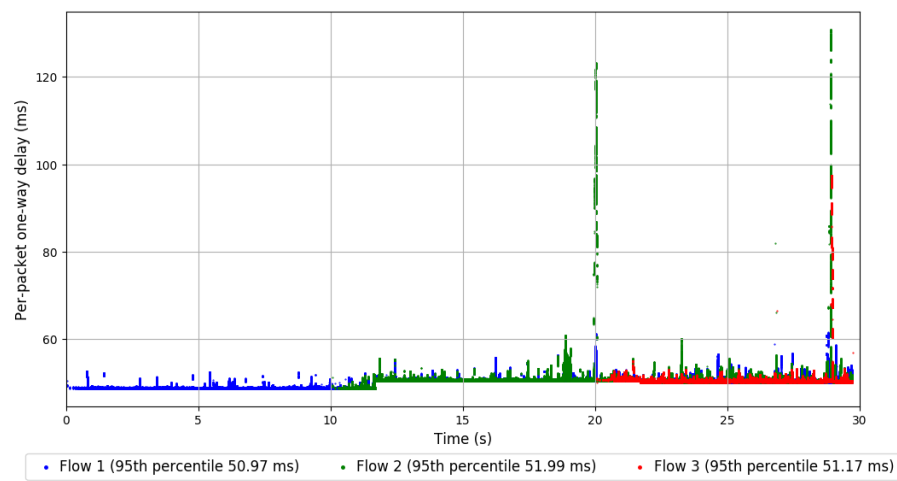
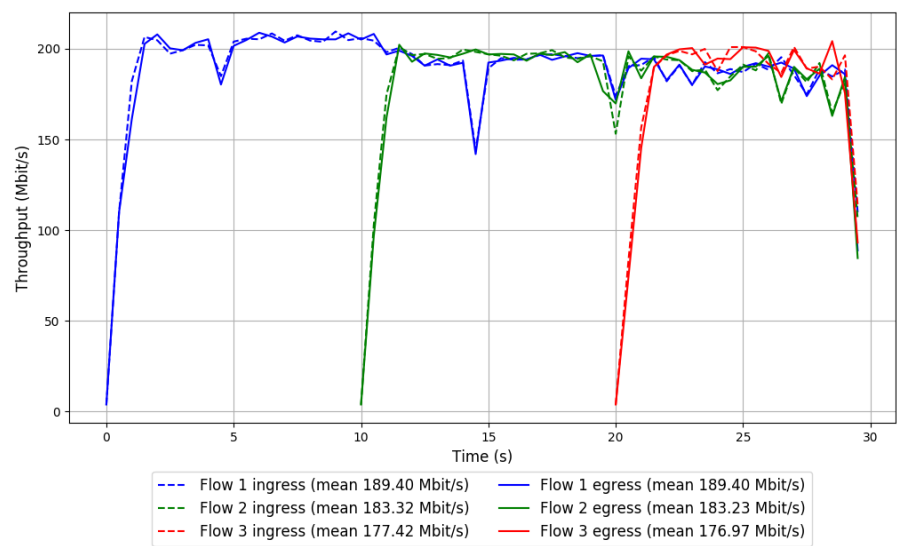
-- Flow 3:

Average throughput: 176.97 Mbit/s

95th percentile per-packet one-way delay: 51.166 ms

Loss rate: 1.23%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-09-22 08:59:18

End at: 2017-09-22 08:59:48

Below is generated by plot.py at 2017-09-22 12:46:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 364.88 Mbit/s

95th percentile per-packet one-way delay: 51.041 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 185.19 Mbit/s

95th percentile per-packet one-way delay: 50.972 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 185.24 Mbit/s

95th percentile per-packet one-way delay: 51.191 ms

Loss rate: 0.36%

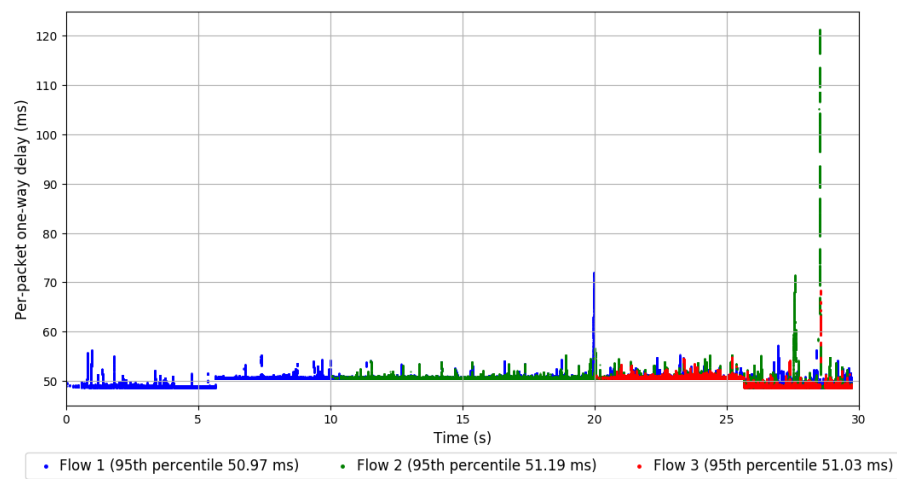
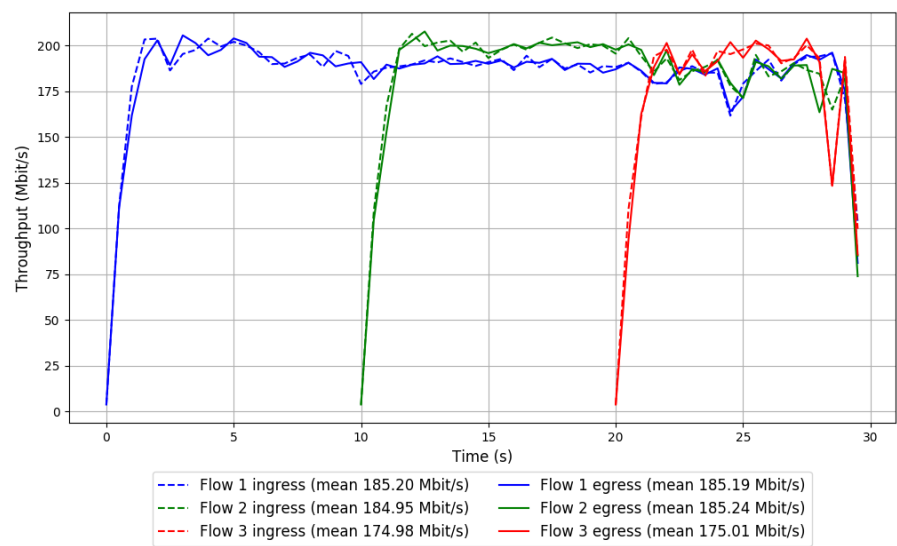
-- Flow 3:

Average throughput: 175.01 Mbit/s

95th percentile per-packet one-way delay: 51.026 ms

Loss rate: 1.02%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-09-22 09:12:05

End at: 2017-09-22 09:12:35

Below is generated by plot.py at 2017-09-22 12:46:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 369.81 Mbit/s

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

Loss rate: 0.53%

-- Flow 1:

Average throughput: 187.03 Mbit/s

95th percentile per-packet one-way delay: 50.530 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 188.47 Mbit/s

95th percentile per-packet one-way delay: 50.782 ms

Loss rate: 0.54%

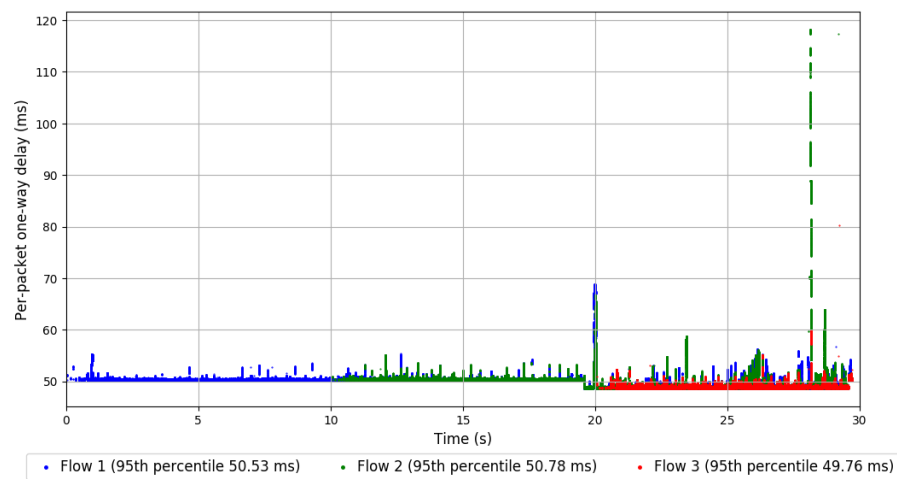
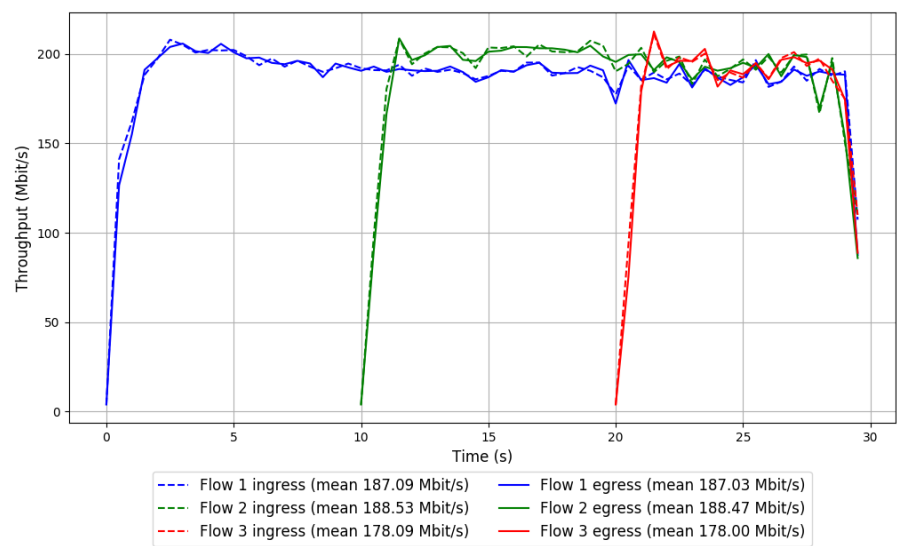
-- Flow 3:

Average throughput: 178.00 Mbit/s

95th percentile per-packet one-way delay: 49.764 ms

Loss rate: 1.07%

Run 10: Report of Indigo — Data Link

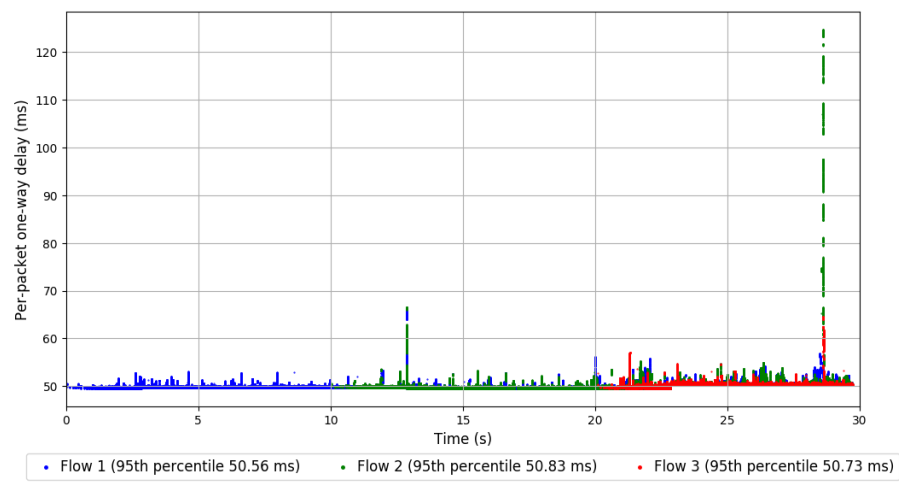
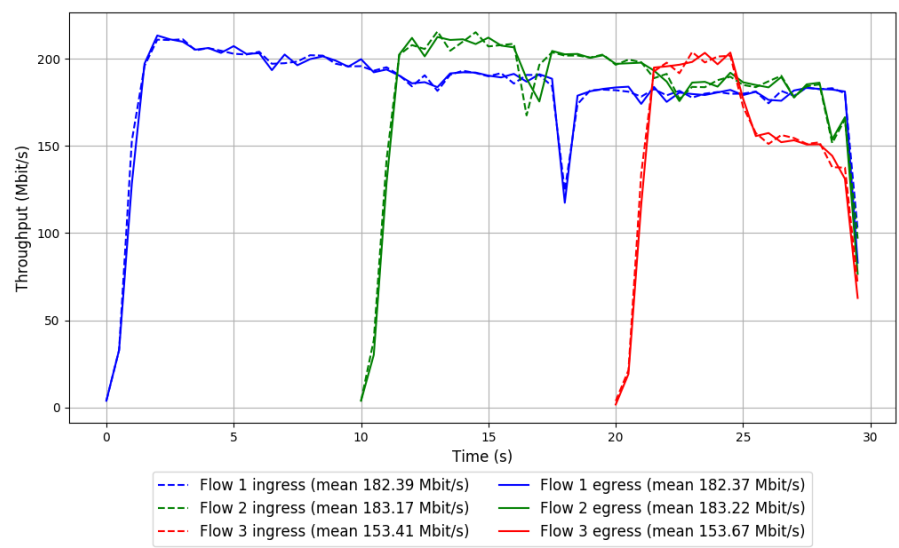


```
Run 1: Statistics of Indigo-calib

Start at: 2017-09-22 07:22:51
End at: 2017-09-22 07:23:21

# Below is generated by plot.py at 2017-09-22 12:46:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 353.72 Mbit/s
95th percentile per-packet one-way delay: 50.672 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 182.37 Mbit/s
95th percentile per-packet one-way delay: 50.564 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 183.22 Mbit/s
95th percentile per-packet one-way delay: 50.831 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 153.67 Mbit/s
95th percentile per-packet one-way delay: 50.729 ms
Loss rate: 0.85%
```


Run 1: Report of Indigo-calib — Data Link

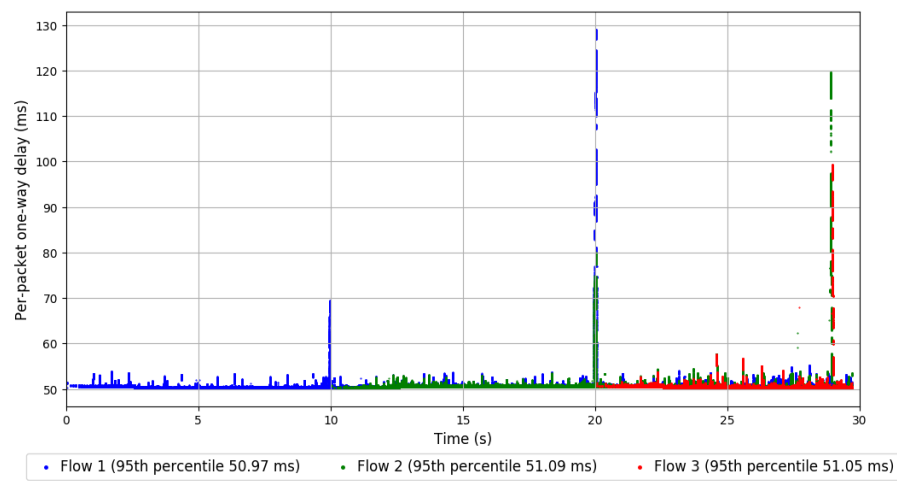
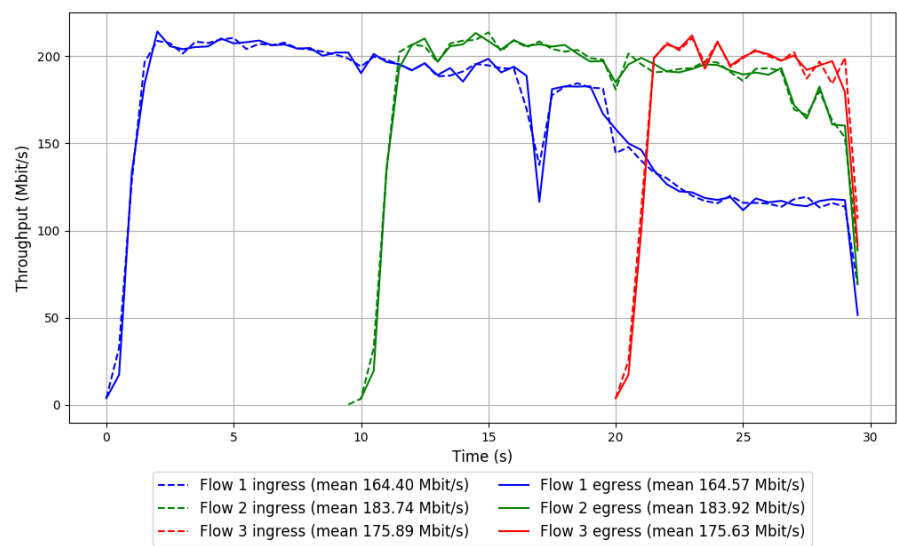


```
Run 2: Statistics of Indigo-calib

Start at: 2017-09-22 07:35:32
End at: 2017-09-22 07:36:02

# Below is generated by plot.py at 2017-09-22 12:46:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 343.61 Mbit/s
95th percentile per-packet one-way delay: 51.023 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 164.57 Mbit/s
95th percentile per-packet one-way delay: 50.968 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 183.92 Mbit/s
95th percentile per-packet one-way delay: 51.087 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 175.63 Mbit/s
95th percentile per-packet one-way delay: 51.047 ms
Loss rate: 1.19%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-09-22 07:48:04

End at: 2017-09-22 07:48:34

Below is generated by plot.py at 2017-09-22 12:48:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 360.11 Mbit/s

95th percentile per-packet one-way delay: 51.004 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 179.68 Mbit/s

95th percentile per-packet one-way delay: 51.017 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 188.03 Mbit/s

95th percentile per-packet one-way delay: 51.404 ms

Loss rate: 0.52%

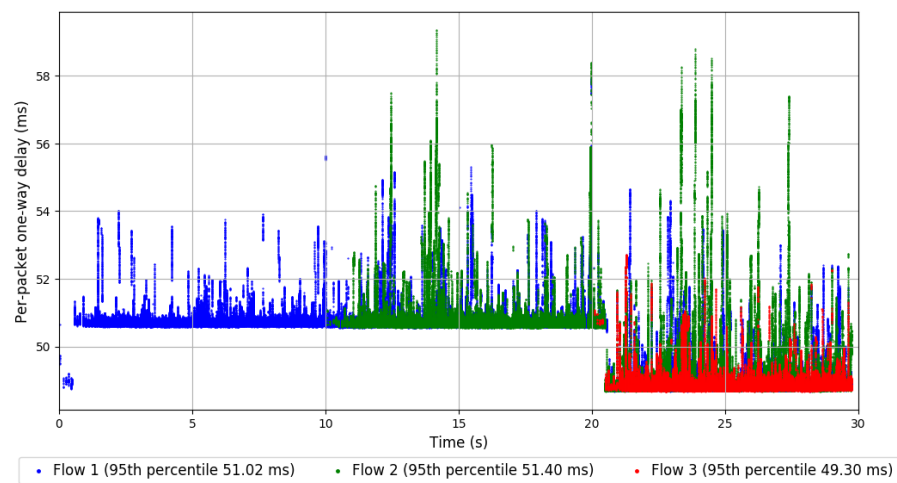
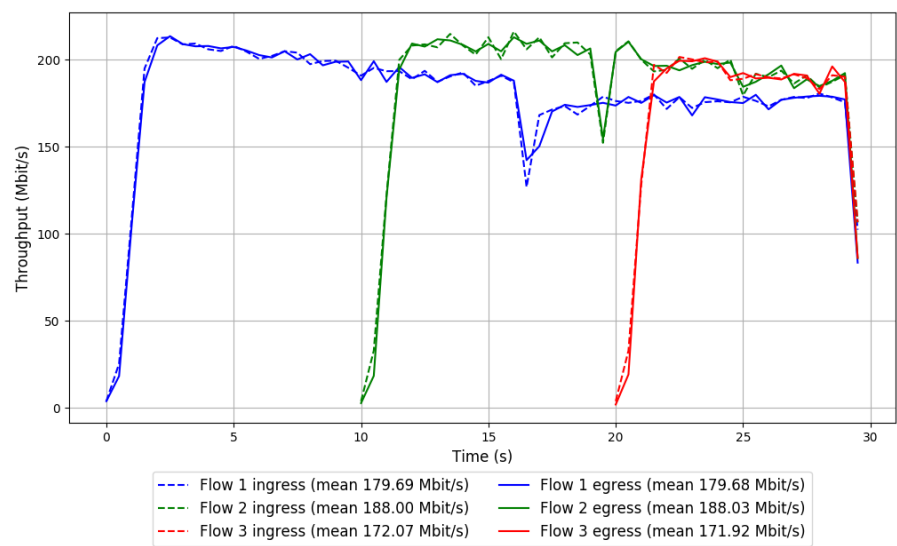
-- Flow 3:

Average throughput: 171.92 Mbit/s

95th percentile per-packet one-way delay: 49.298 ms

Loss rate: 1.12%

Run 3: Report of Indigo-calib — Data Link

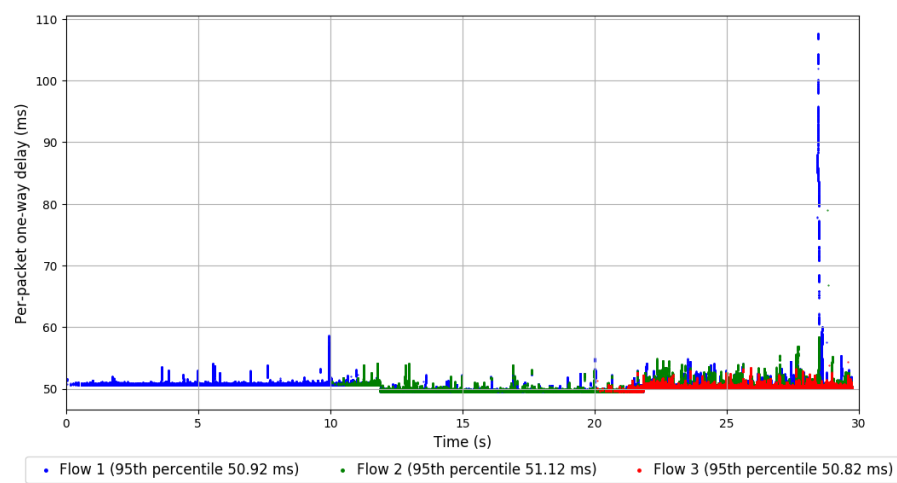
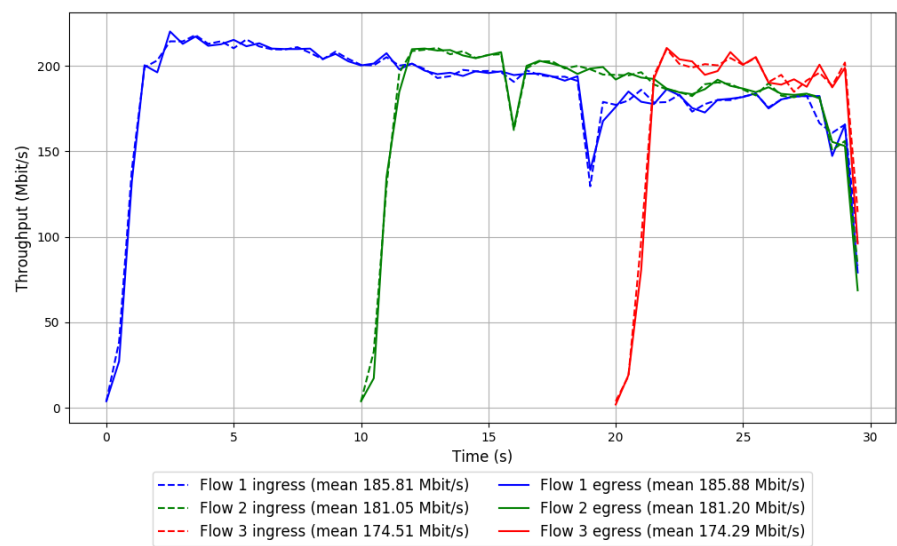


```
Run 4: Statistics of Indigo-calib

Start at: 2017-09-22 08:01:02
End at: 2017-09-22 08:01:32

# Below is generated by plot.py at 2017-09-22 12:48:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 362.49 Mbit/s
95th percentile per-packet one-way delay: 50.936 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 185.88 Mbit/s
95th percentile per-packet one-way delay: 50.916 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 181.20 Mbit/s
95th percentile per-packet one-way delay: 51.116 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 174.29 Mbit/s
95th percentile per-packet one-way delay: 50.824 ms
Loss rate: 1.15%
```

Run 4: Report of Indigo-calib — Data Link

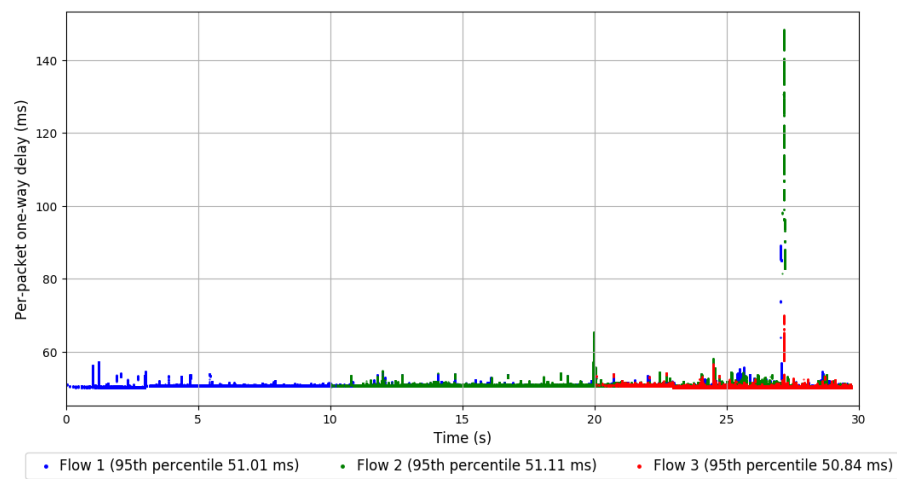
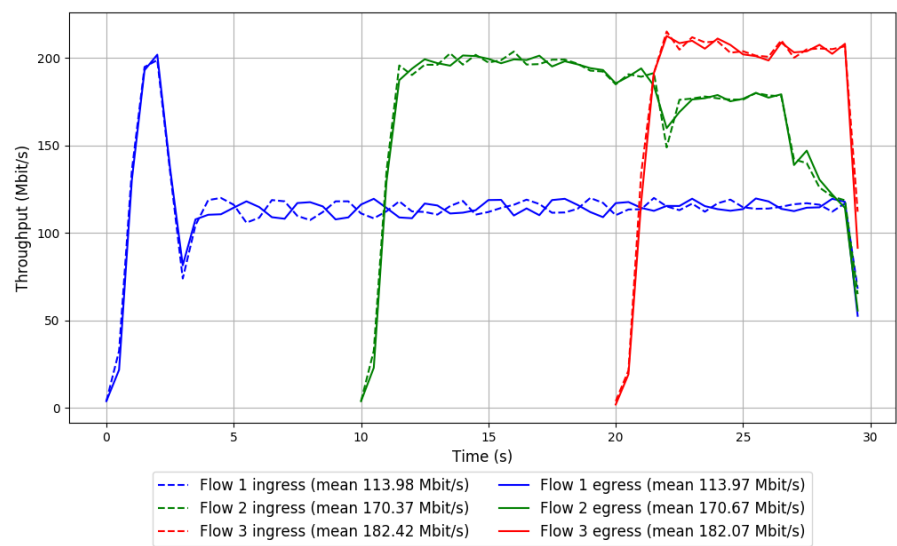


```
Run 5: Statistics of Indigo-calib

Start at: 2017-09-22 08:14:01
End at: 2017-09-22 08:14:31

# Below is generated by plot.py at 2017-09-22 12:51:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 286.28 Mbit/s
95th percentile per-packet one-way delay: 50.996 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 113.97 Mbit/s
95th percentile per-packet one-way delay: 51.009 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 170.67 Mbit/s
95th percentile per-packet one-way delay: 51.106 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 182.07 Mbit/s
95th percentile per-packet one-way delay: 50.841 ms
Loss rate: 1.18%
```


Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-09-22 08:26:31

End at: 2017-09-22 08:27:01

Below is generated by plot.py at 2017-09-22 12:53:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 361.17 Mbit/s

95th percentile per-packet one-way delay: 51.451 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 185.15 Mbit/s

95th percentile per-packet one-way delay: 51.172 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 179.84 Mbit/s

95th percentile per-packet one-way delay: 51.933 ms

Loss rate: 0.45%

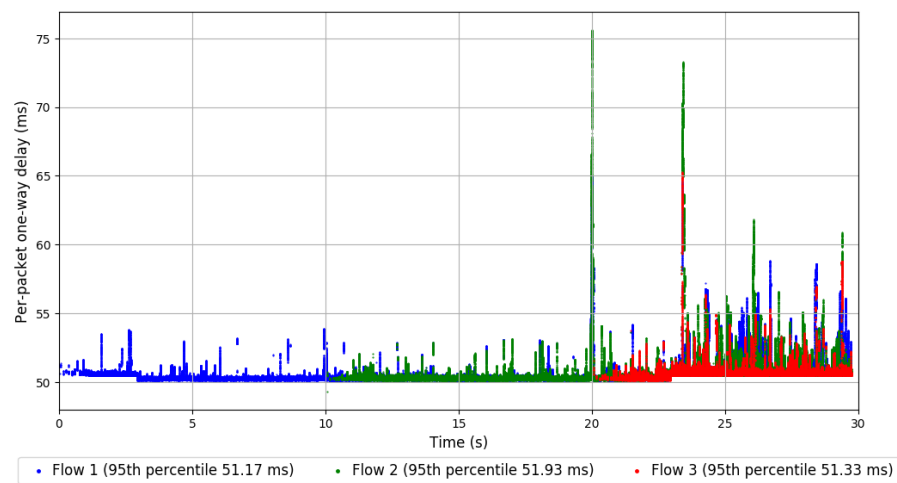
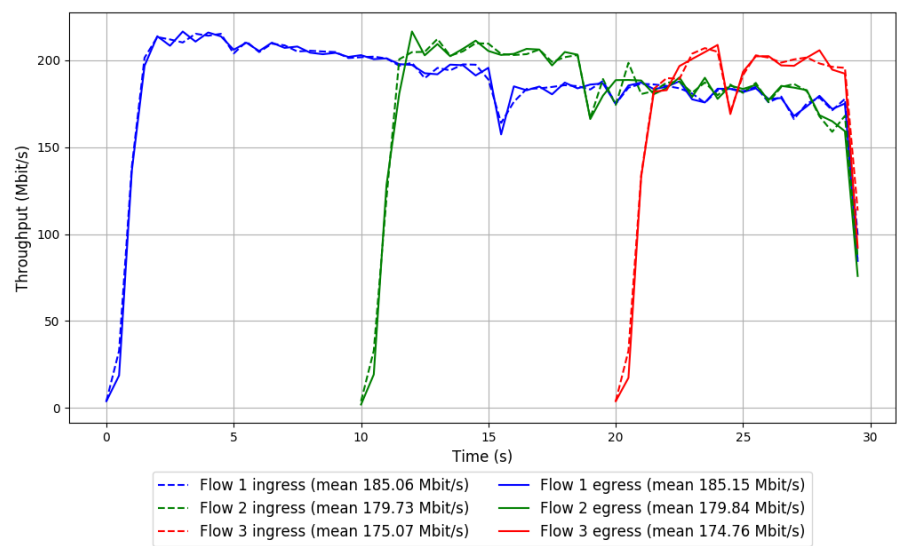
-- Flow 3:

Average throughput: 174.76 Mbit/s

95th percentile per-packet one-way delay: 51.331 ms

Loss rate: 1.24%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-09-22 08:39:12

End at: 2017-09-22 08:39:42

Below is generated by plot.py at 2017-09-22 12:53:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 357.19 Mbit/s

95th percentile per-packet one-way delay: 51.120 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 180.77 Mbit/s

95th percentile per-packet one-way delay: 50.849 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 178.29 Mbit/s

95th percentile per-packet one-way delay: 51.632 ms

Loss rate: 0.52%

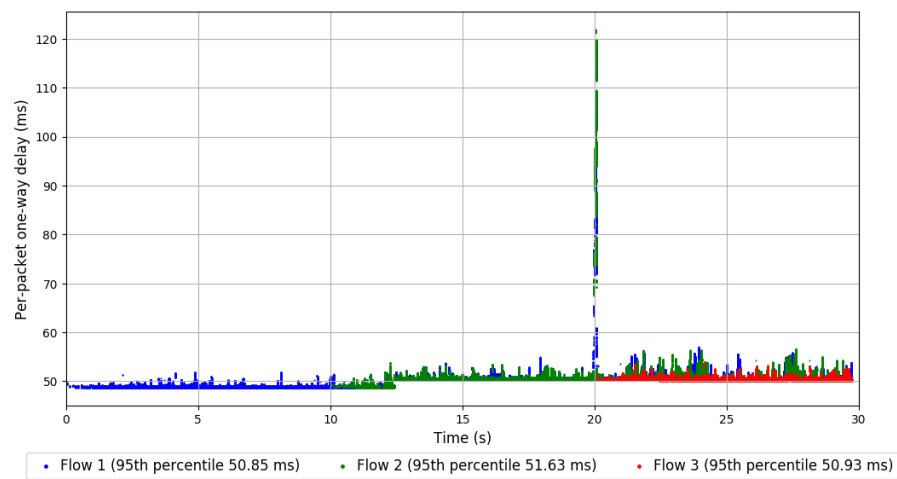
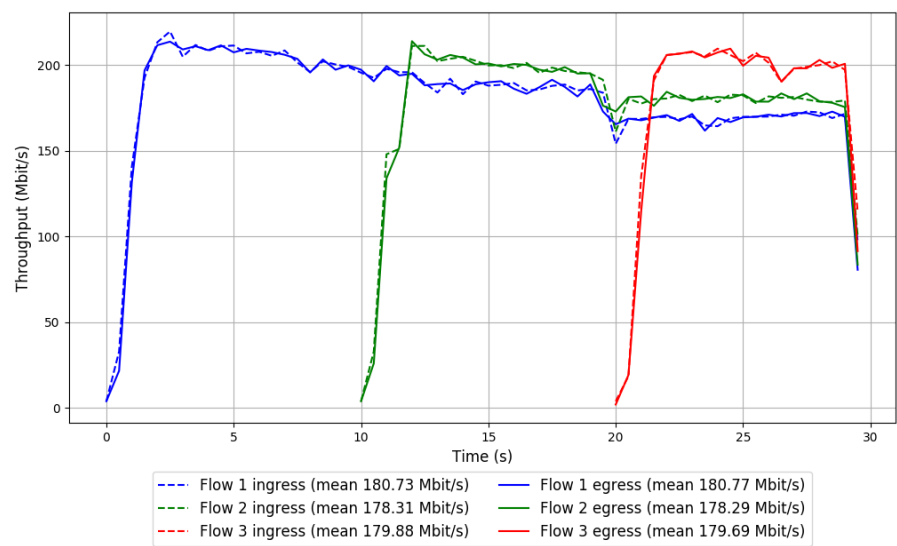
-- Flow 3:

Average throughput: 179.69 Mbit/s

95th percentile per-packet one-way delay: 50.928 ms

Loss rate: 1.14%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-09-22 08:52:03

End at: 2017-09-22 08:52:33

Below is generated by plot.py at 2017-09-22 12:53:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 358.96 Mbit/s

95th percentile per-packet one-way delay: 50.781 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 182.30 Mbit/s

95th percentile per-packet one-way delay: 50.770 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 185.24 Mbit/s

95th percentile per-packet one-way delay: 50.933 ms

Loss rate: 0.53%

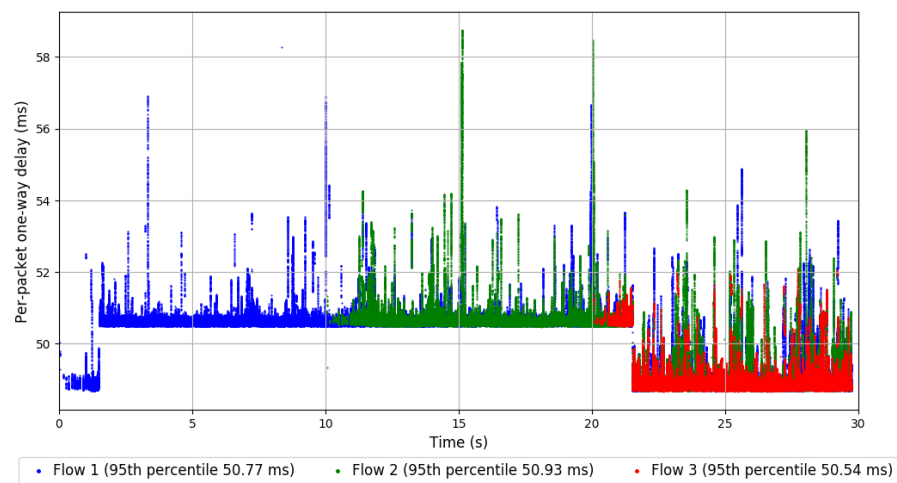
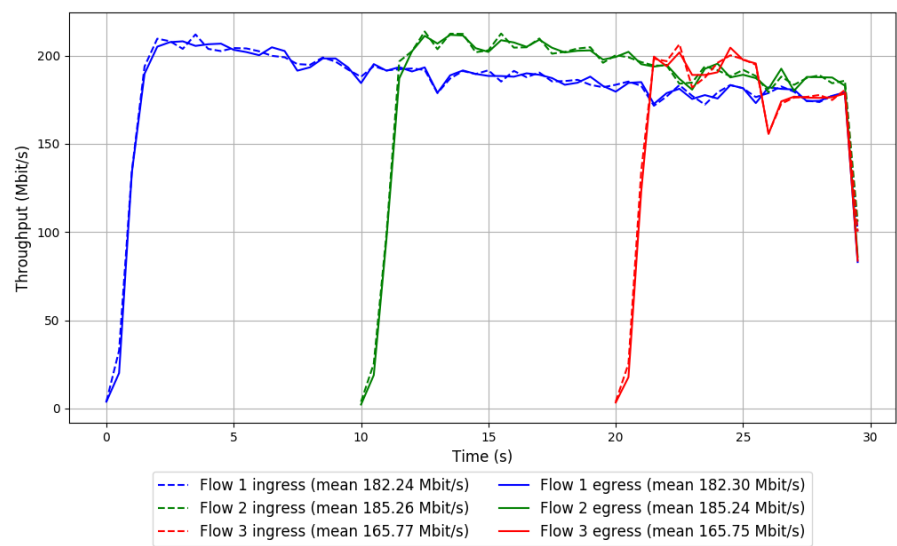
-- Flow 3:

Average throughput: 165.75 Mbit/s

95th percentile per-packet one-way delay: 50.542 ms

Loss rate: 1.10%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-09-22 09:04:46

End at: 2017-09-22 09:05:16

Below is generated by plot.py at 2017-09-22 12:53:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 362.26 Mbit/s

95th percentile per-packet one-way delay: 51.337 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 182.92 Mbit/s

95th percentile per-packet one-way delay: 51.064 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 181.13 Mbit/s

95th percentile per-packet one-way delay: 51.763 ms

Loss rate: 0.41%

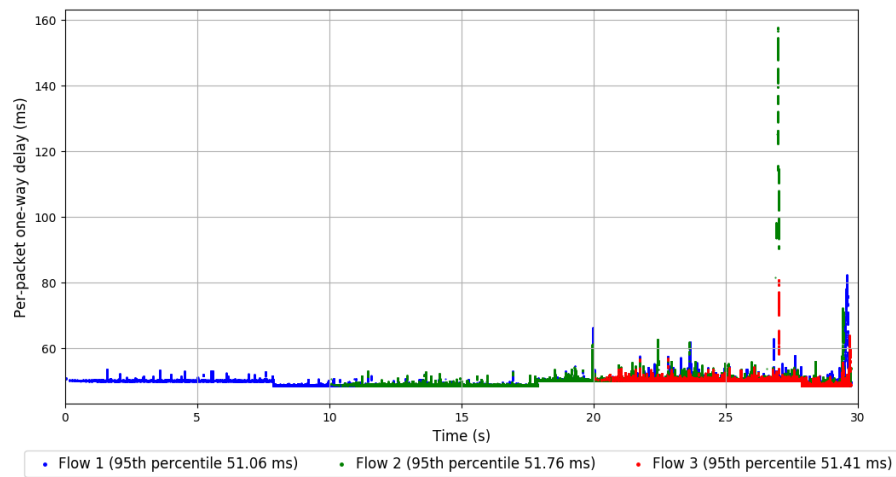
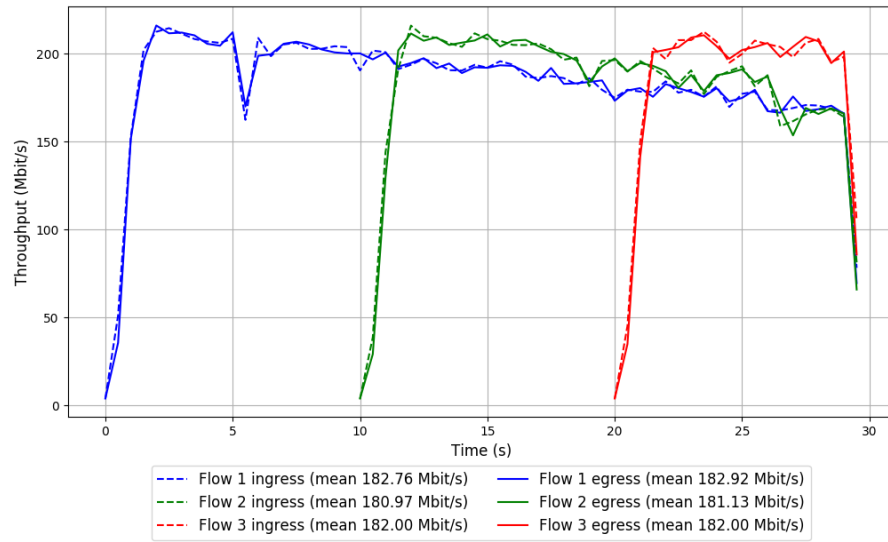
-- Flow 3:

Average throughput: 182.00 Mbit/s

95th percentile per-packet one-way delay: 51.413 ms

Loss rate: 1.03%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-09-22 09:17:27

End at: 2017-09-22 09:17:57

Below is generated by plot.py at 2017-09-22 12:53:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 358.02 Mbit/s

95th percentile per-packet one-way delay: 51.506 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 183.14 Mbit/s

95th percentile per-packet one-way delay: 51.362 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 178.64 Mbit/s

95th percentile per-packet one-way delay: 51.885 ms

Loss rate: 0.23%

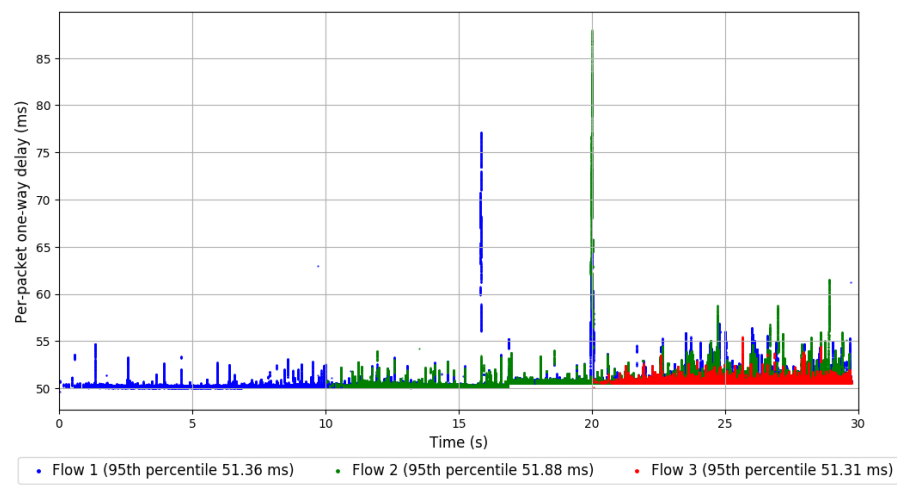
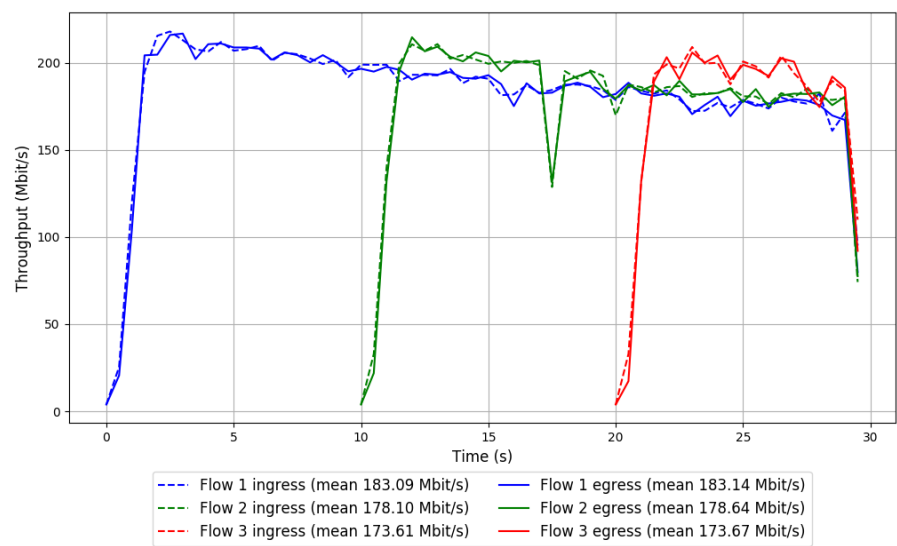
-- Flow 3:

Average throughput: 173.67 Mbit/s

95th percentile per-packet one-way delay: 51.311 ms

Loss rate: 1.01%

Run 10: Report of Indigo-calib — Data Link

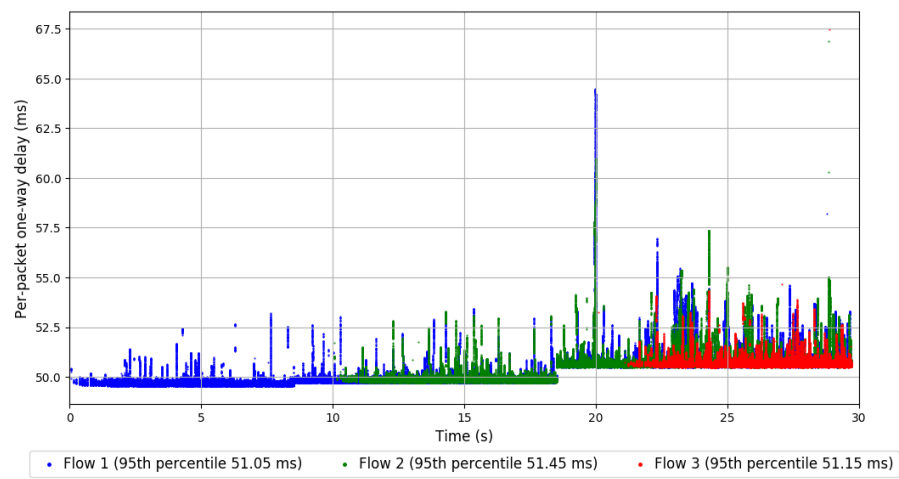
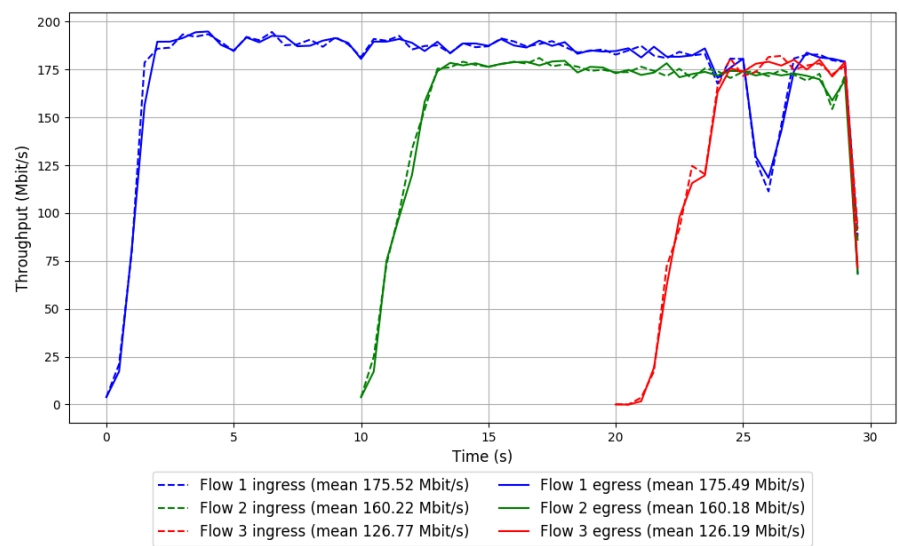


```
Run 1: Statistics of Indigo-delay

Start at: 2017-09-22 07:20:56
End at: 2017-09-22 07:21:26

# Below is generated by plot.py at 2017-09-22 12:54:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 322.39 Mbit/s
95th percentile per-packet one-way delay: 51.193 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 175.49 Mbit/s
95th percentile per-packet one-way delay: 51.052 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 160.18 Mbit/s
95th percentile per-packet one-way delay: 51.446 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 126.19 Mbit/s
95th percentile per-packet one-way delay: 51.146 ms
Loss rate: 1.52%
```

Run 1: Report of Indigo-delay — Data Link

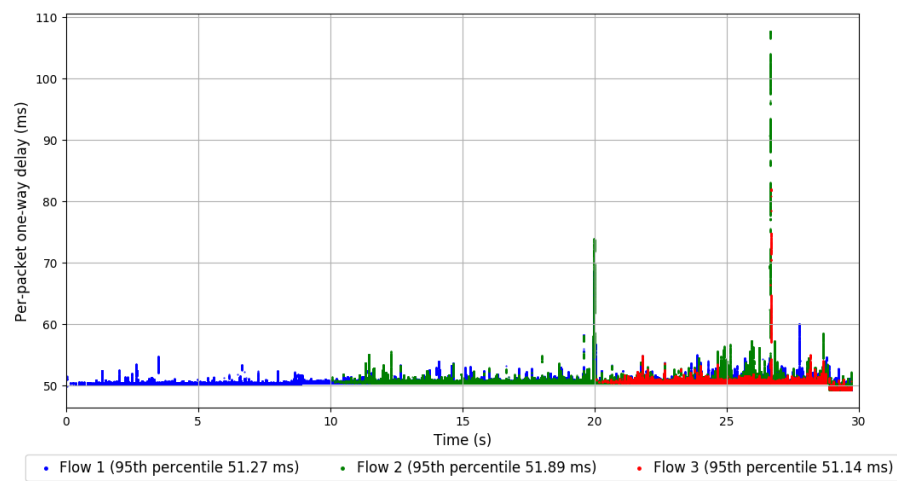
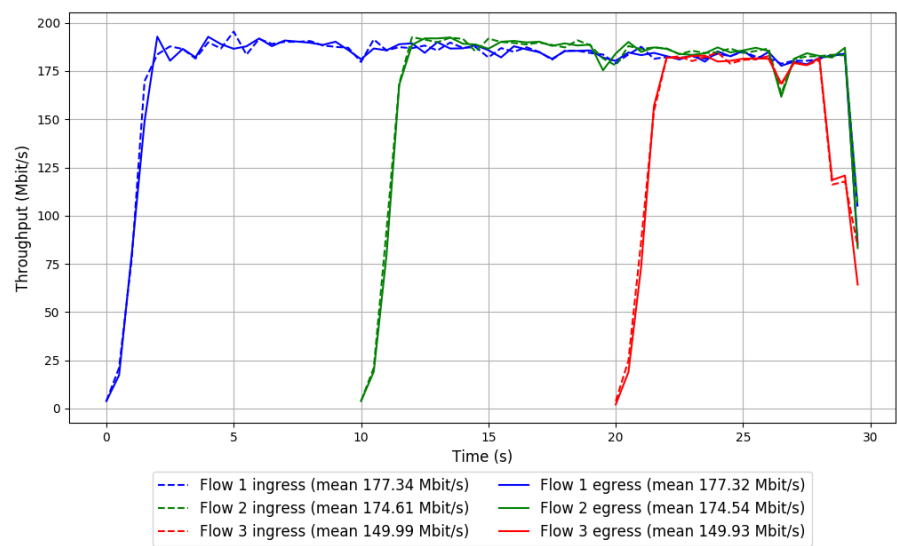


```
Run 2: Statistics of Indigo-delay

Start at: 2017-09-22 07:33:45
End at: 2017-09-22 07:34:15

# Below is generated by plot.py at 2017-09-22 12:54:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 341.76 Mbit/s
95th percentile per-packet one-way delay: 51.411 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 177.32 Mbit/s
95th percentile per-packet one-way delay: 51.268 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 174.54 Mbit/s
95th percentile per-packet one-way delay: 51.886 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 149.93 Mbit/s
95th percentile per-packet one-way delay: 51.138 ms
Loss rate: 1.10%
```

Run 2: Report of Indigo-delay — Data Link

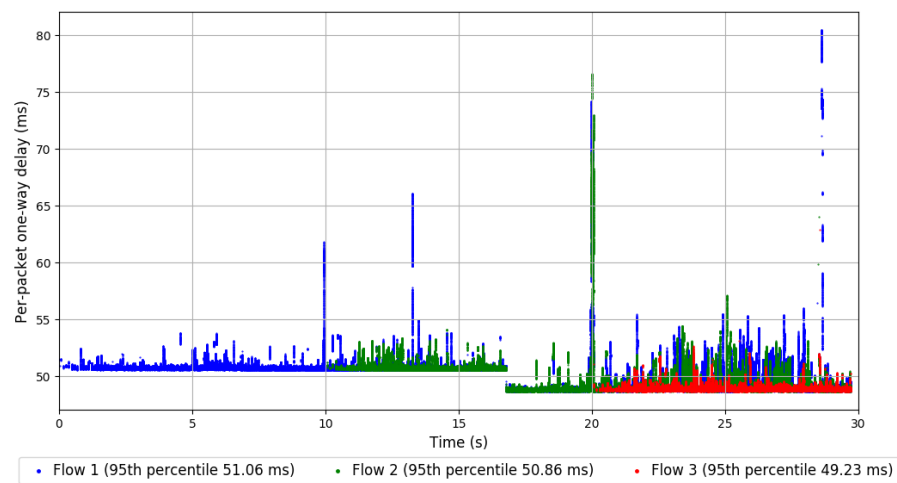
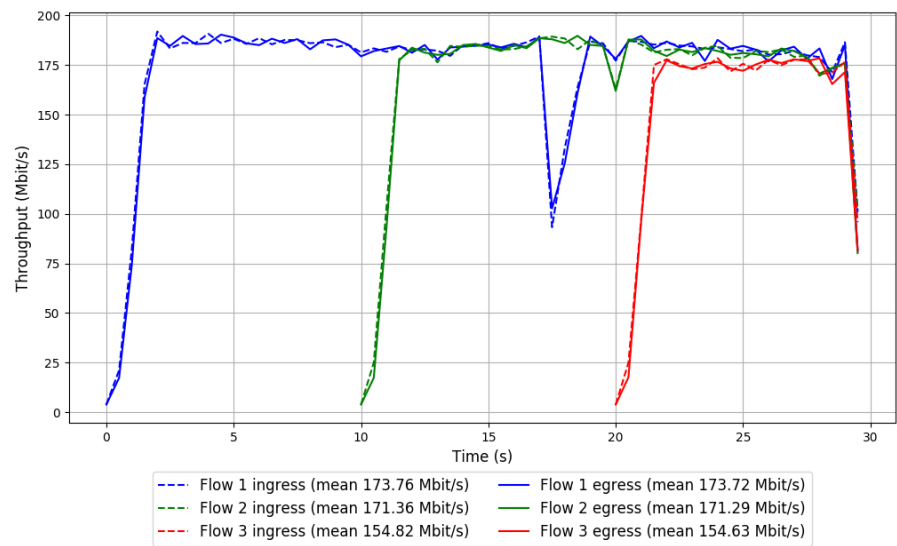


```
Run 3: Statistics of Indigo-delay

Start at: 2017-09-22 07:46:07
End at: 2017-09-22 07:46:37

# Below is generated by plot.py at 2017-09-22 12:57:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 337.57 Mbit/s
95th percentile per-packet one-way delay: 50.904 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 173.72 Mbit/s
95th percentile per-packet one-way delay: 51.056 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 171.29 Mbit/s
95th percentile per-packet one-way delay: 50.862 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 154.63 Mbit/s
95th percentile per-packet one-way delay: 49.229 ms
Loss rate: 1.12%
```


Run 3: Report of Indigo-delay — Data Link

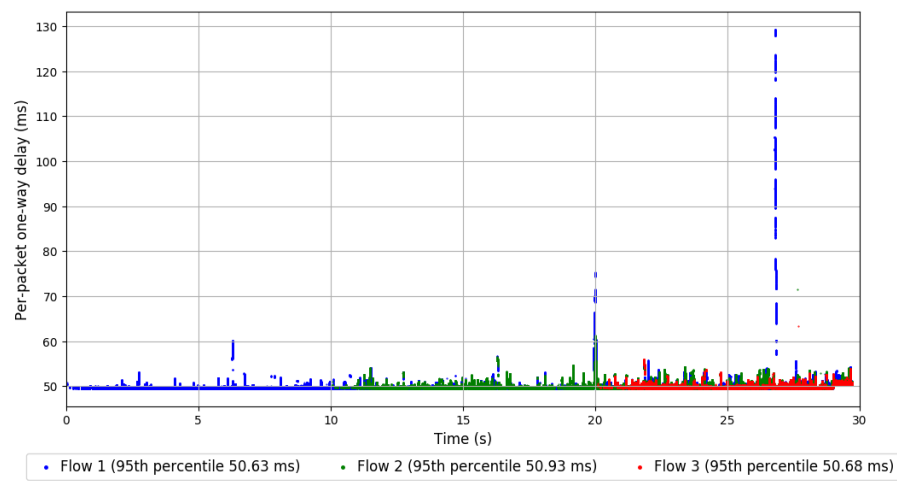
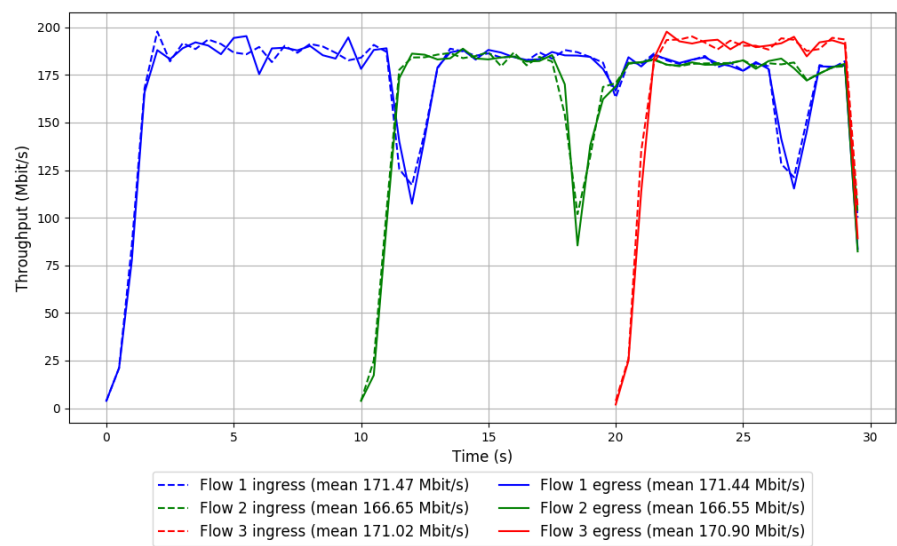


```
Run 4: Statistics of Indigo-delay

Start at: 2017-09-22 07:59:05
End at: 2017-09-22 07:59:35

# Below is generated by plot.py at 2017-09-22 12:59:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 337.22 Mbit/s
95th percentile per-packet one-way delay: 50.723 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 171.44 Mbit/s
95th percentile per-packet one-way delay: 50.634 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 166.55 Mbit/s
95th percentile per-packet one-way delay: 50.927 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 170.90 Mbit/s
95th percentile per-packet one-way delay: 50.678 ms
Loss rate: 1.13%
```

Run 4: Report of Indigo-delay — Data Link

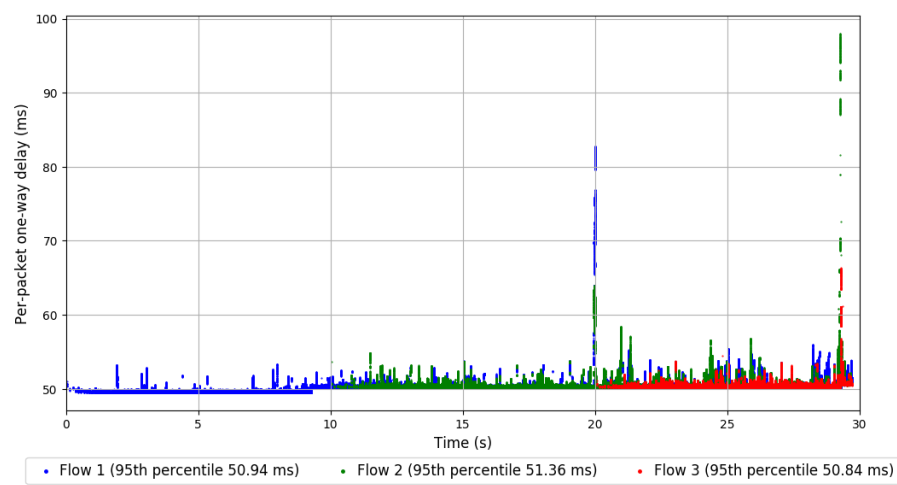
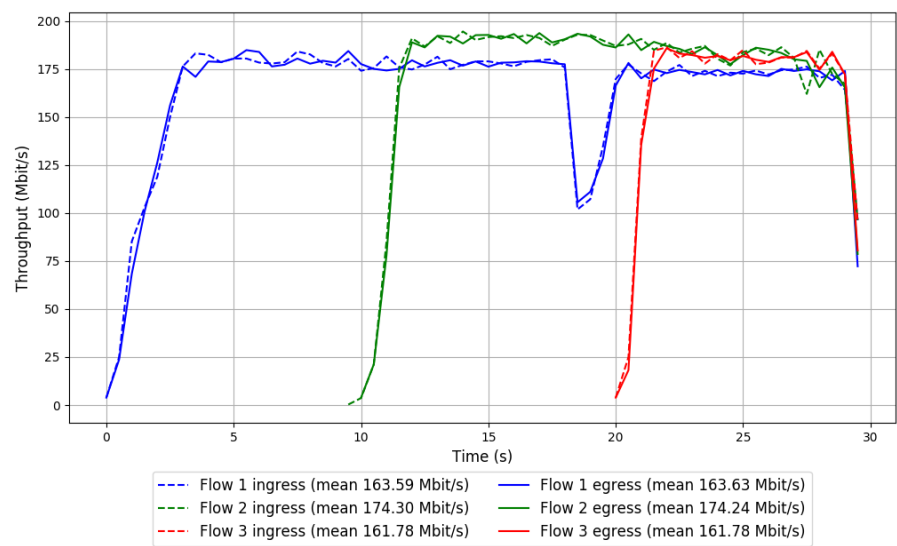


```
Run 5: Statistics of Indigo-delay

Start at: 2017-09-22 08:12:05
End at: 2017-09-22 08:12:35

# Below is generated by plot.py at 2017-09-22 12:59:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 331.73 Mbit/s
95th percentile per-packet one-way delay: 51.050 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 163.63 Mbit/s
95th percentile per-packet one-way delay: 50.940 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 174.24 Mbit/s
95th percentile per-packet one-way delay: 51.363 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 161.78 Mbit/s
95th percentile per-packet one-way delay: 50.835 ms
Loss rate: 1.03%
```

Run 5: Report of Indigo-delay — Data Link



Run 6: Statistics of Indigo-delay

Start at: 2017-09-22 08:24:46

End at: 2017-09-22 08:25:16

Below is generated by plot.py at 2017-09-22 12:59:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 333.84 Mbit/s

95th percentile per-packet one-way delay: 51.175 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 175.06 Mbit/s

95th percentile per-packet one-way delay: 51.216 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 164.82 Mbit/s

95th percentile per-packet one-way delay: 51.160 ms

Loss rate: 0.52%

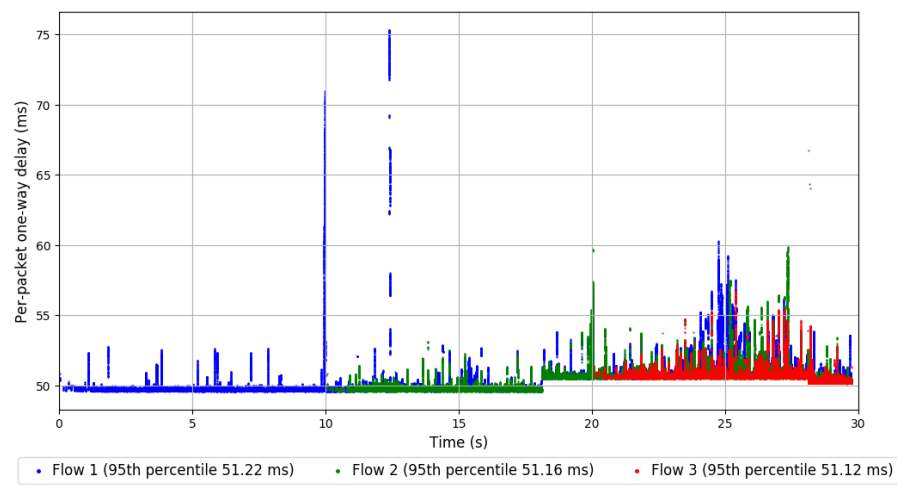
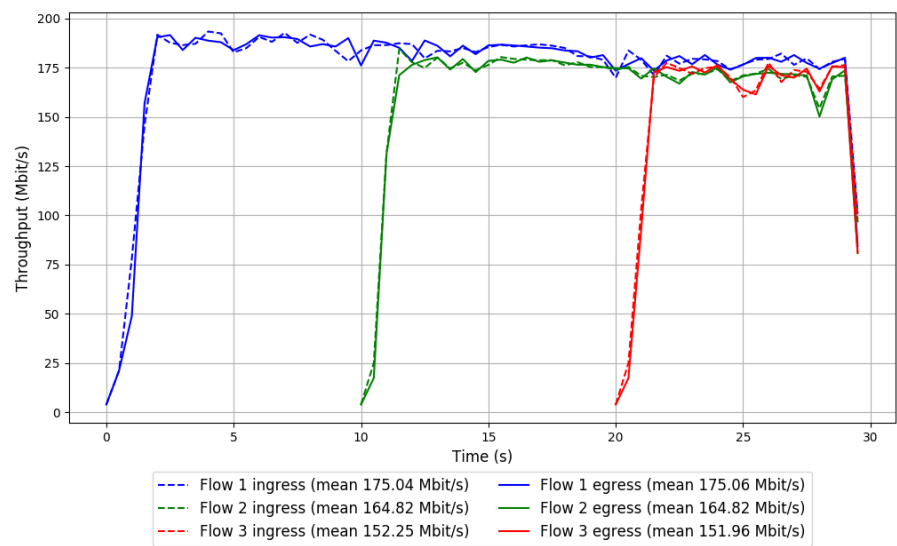
-- Flow 3:

Average throughput: 151.96 Mbit/s

95th percentile per-packet one-way delay: 51.122 ms

Loss rate: 1.21%

Run 6: Report of Indigo-delay — Data Link



Run 7: Statistics of Indigo-delay

Start at: 2017-09-22 08:37:15

End at: 2017-09-22 08:37:45

Below is generated by plot.py at 2017-09-22 12:59:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 340.23 Mbit/s

95th percentile per-packet one-way delay: 50.739 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 175.93 Mbit/s

95th percentile per-packet one-way delay: 50.748 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 169.74 Mbit/s

95th percentile per-packet one-way delay: 50.815 ms

Loss rate: 0.54%

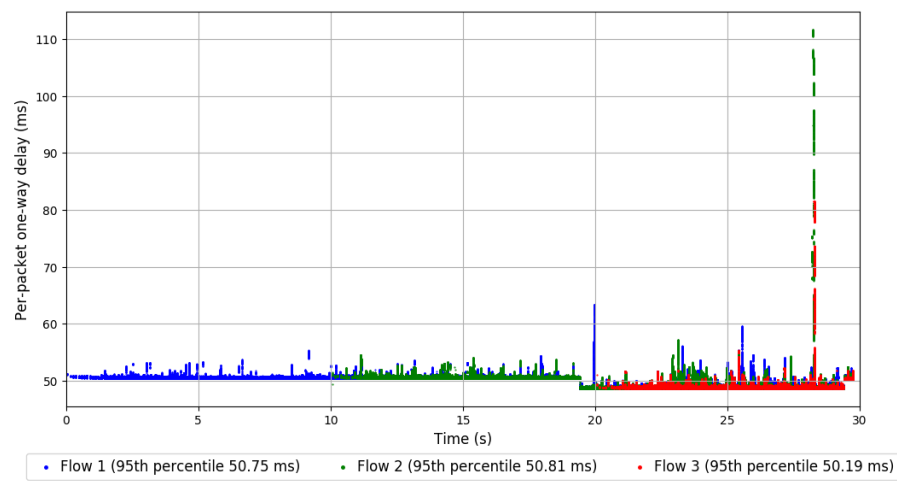
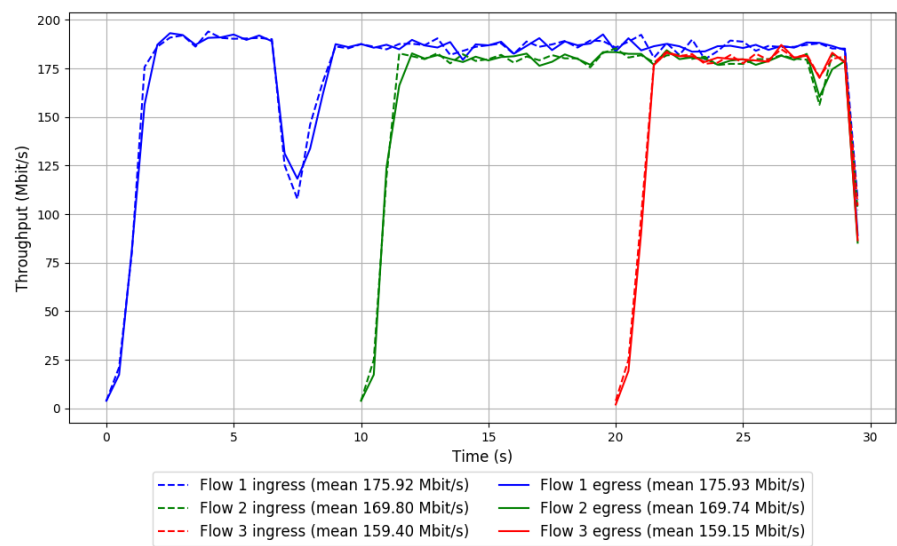
-- Flow 3:

Average throughput: 159.15 Mbit/s

95th percentile per-packet one-way delay: 50.188 ms

Loss rate: 1.16%

Run 7: Report of Indigo-delay — Data Link



Run 8: Statistics of Indigo-delay

Start at: 2017-09-22 08:50:03

End at: 2017-09-22 08:50:33

Below is generated by plot.py at 2017-09-22 12:59:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 327.77 Mbit/s

95th percentile per-packet one-way delay: 51.239 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 174.29 Mbit/s

95th percentile per-packet one-way delay: 51.246 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 161.36 Mbit/s

95th percentile per-packet one-way delay: 51.549 ms

Loss rate: 0.51%

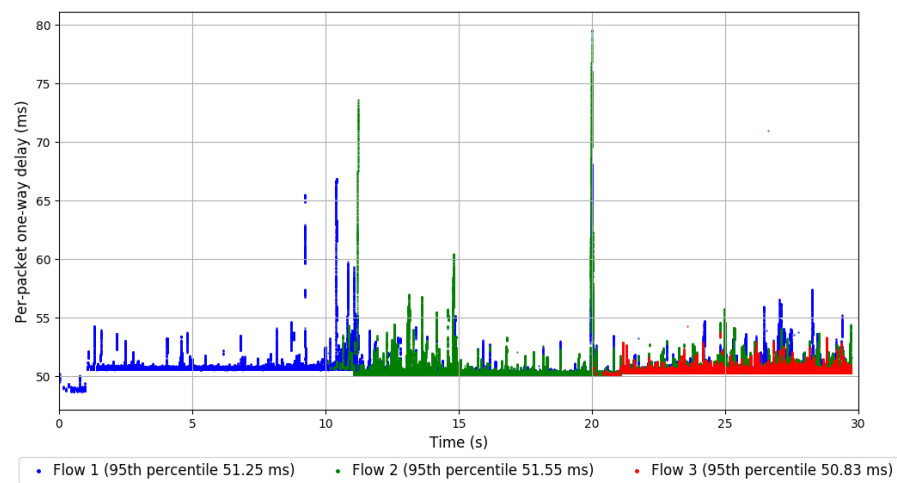
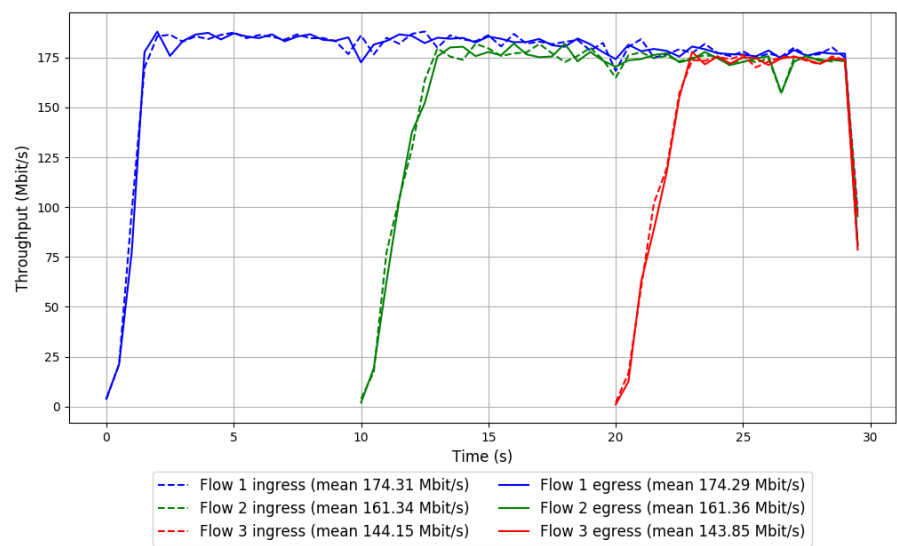
-- Flow 3:

Average throughput: 143.85 Mbit/s

95th percentile per-packet one-way delay: 50.834 ms

Loss rate: 1.27%

Run 8: Report of Indigo-delay — Data Link



Run 9: Statistics of Indigo-delay

Start at: 2017-09-22 09:02:47

End at: 2017-09-22 09:03:17

Below is generated by plot.py at 2017-09-22 12:59:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 336.60 Mbit/s

95th percentile per-packet one-way delay: 51.709 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 176.23 Mbit/s

95th percentile per-packet one-way delay: 51.653 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 166.68 Mbit/s

95th percentile per-packet one-way delay: 52.070 ms

Loss rate: 0.51%

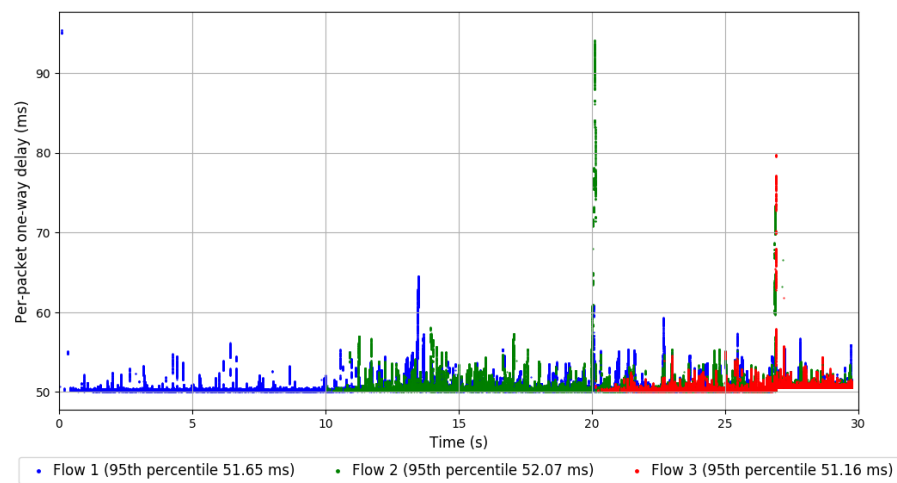
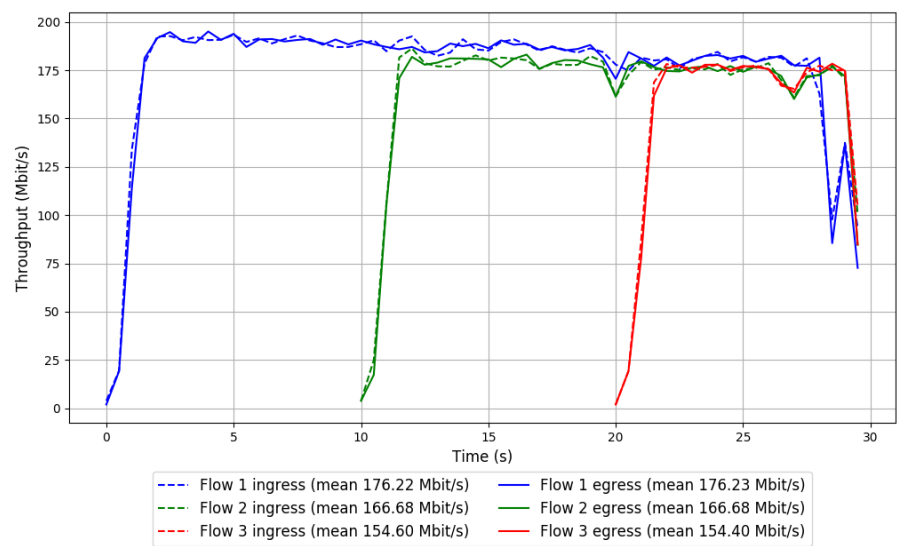
-- Flow 3:

Average throughput: 154.40 Mbit/s

95th percentile per-packet one-way delay: 51.160 ms

Loss rate: 1.19%

Run 9: Report of Indigo-delay — Data Link



Run 10: Statistics of Indigo-delay

Start at: 2017-09-22 09:15:37

End at: 2017-09-22 09:16:07

Below is generated by plot.py at 2017-09-22 12:59:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 341.96 Mbit/s

95th percentile per-packet one-way delay: 51.787 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 174.75 Mbit/s

95th percentile per-packet one-way delay: 51.518 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 175.31 Mbit/s

95th percentile per-packet one-way delay: 52.488 ms

Loss rate: 0.57%

-- Flow 3:

Average throughput: 157.43 Mbit/s

95th percentile per-packet one-way delay: 51.460 ms

Loss rate: 1.19%

Run 10: Report of Indigo-delay — Data Link

