

Pantheon Report

Generated at 2017-11-17 11:31:14 (UTC).

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

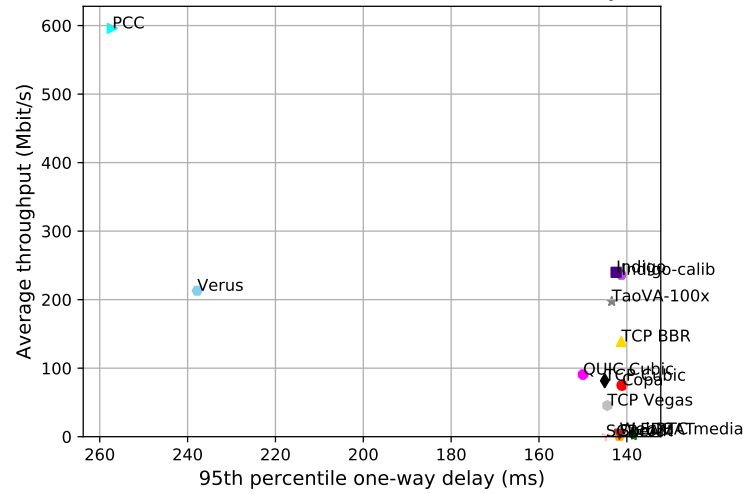
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

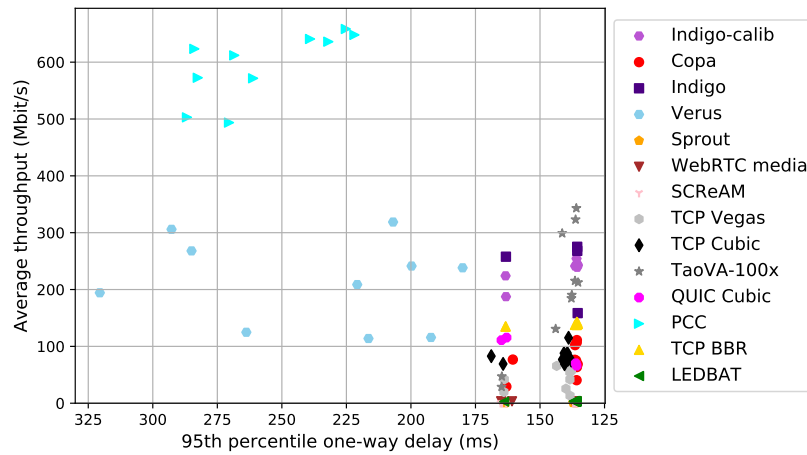
Git summary:

```
branch: indigos @ f54f2953f2a9765c9ffa988d13de5a9471790eb0
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fab936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	72.53	69.42	62.97	141.24	141.24	138.48	0.93	1.59	3.52
TCP Cubic	10	41.67	43.64	34.38	144.57	144.48	147.32	1.35	1.84	4.05
LEDBAT	10	1.93	1.30	0.94	139.02	139.00	138.94	1.74	2.40	5.41
PCC	10	455.28	197.87	30.55	262.79	237.78	226.34	3.79	3.57	4.06
QUIC Cubic	4	30.36	61.01	52.54	142.81	135.75	142.74	0.22	0.82	3.96
SCReAM	10	0.22	0.22	0.22	141.42	141.40	135.98	0.85	1.38	2.63
WebRTC media	10	1.98	1.18	0.34	138.98	135.74	143.91	1.06	1.87	6.34
Sprout	10	0.42	0.39	0.50	141.55	141.46	141.51	0.77	1.01	1.98
TaoVA-100x	10	110.58	102.37	80.80	144.22	142.43	143.41	1.03	1.14	4.86
TCP Vegas	10	19.22	28.75	21.77	143.74	143.31	146.02	0.95	1.46	3.95
Verus	10	125.62	105.20	56.53	223.32	197.58	216.28	2.15	3.01	7.16
Copa	10	49.46	34.45	13.32	138.65	136.05	144.04	0.71	1.01	6.04
Indigo	4	143.89	114.09	100.55	142.37	142.80	135.40	0.96	1.10	5.25
Indigo-calib	10	127.46	115.48	101.27	141.18	141.31	141.27	1.03	1.54	3.80

Run 1: Statistics of TCP BBR

Start at: 2017-11-17 06:07:48

End at: 2017-11-17 06:08:18

Below is generated by plot.py at 2017-11-17 10:50:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.47 Mbit/s

95th percentile per-packet one-way delay: 135.317 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 73.06 Mbit/s

95th percentile per-packet one-way delay: 135.320 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 69.92 Mbit/s

95th percentile per-packet one-way delay: 135.299 ms

Loss rate: 1.50%

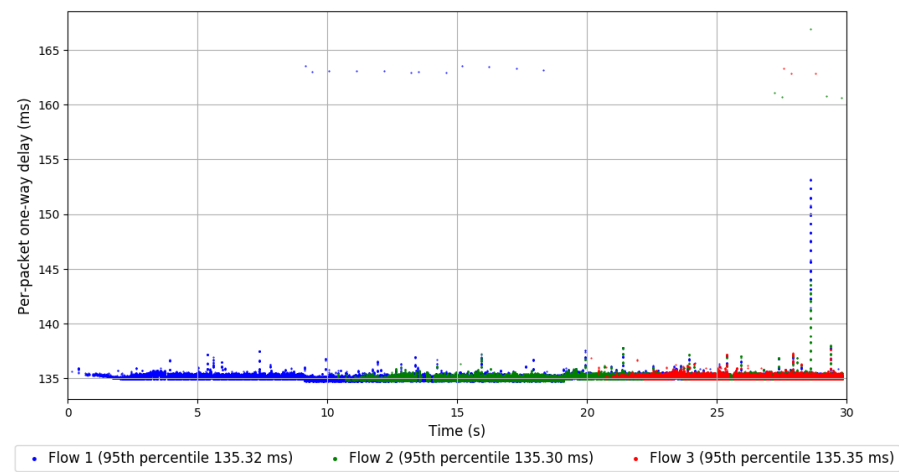
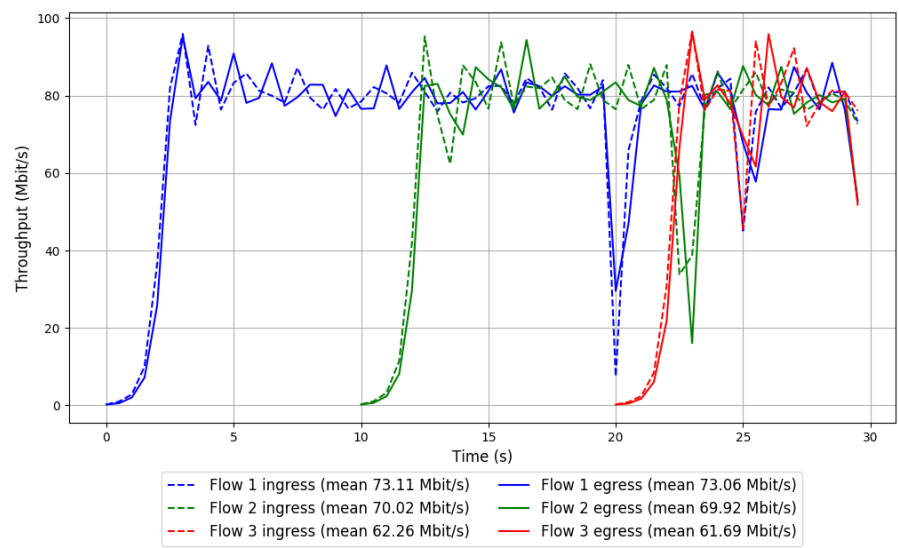
-- Flow 3:

Average throughput: 61.69 Mbit/s

95th percentile per-packet one-way delay: 135.349 ms

Loss rate: 3.77%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-17 06:21:36

End at: 2017-11-17 06:22:06

Below is generated by plot.py at 2017-11-17 10:50:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 142.84 Mbit/s

95th percentile per-packet one-way delay: 135.540 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 75.89 Mbit/s

95th percentile per-packet one-way delay: 135.508 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 70.33 Mbit/s

95th percentile per-packet one-way delay: 135.528 ms

Loss rate: 1.69%

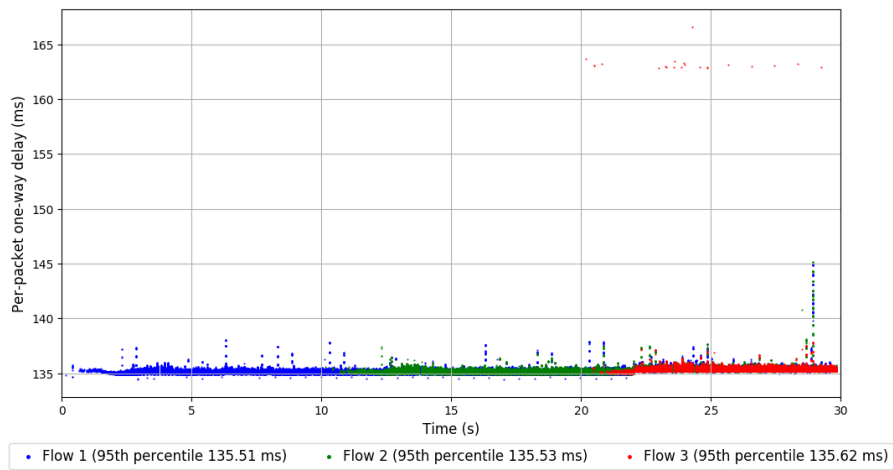
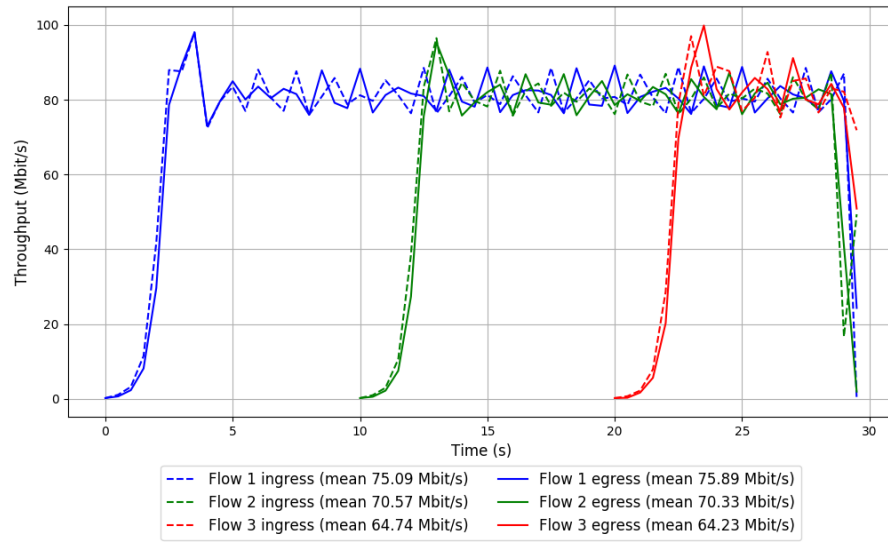
-- Flow 3:

Average throughput: 64.23 Mbit/s

95th percentile per-packet one-way delay: 135.625 ms

Loss rate: 3.59%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-17 06:35:14

End at: 2017-11-17 06:35:44

Below is generated by plot.py at 2017-11-17 10:50:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.52 Mbit/s

95th percentile per-packet one-way delay: 163.360 ms

Loss rate: 1.65%

-- Flow 1:

Average throughput: 71.70 Mbit/s

95th percentile per-packet one-way delay: 163.336 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 65.33 Mbit/s

95th percentile per-packet one-way delay: 163.412 ms

Loss rate: 1.76%

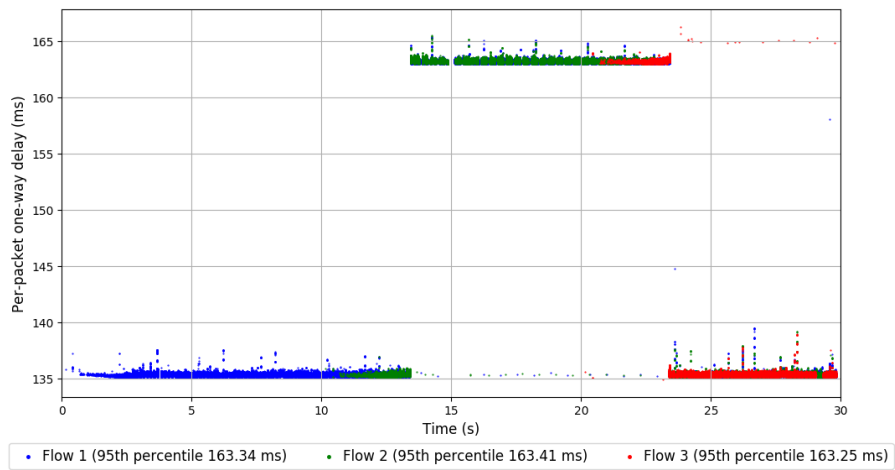
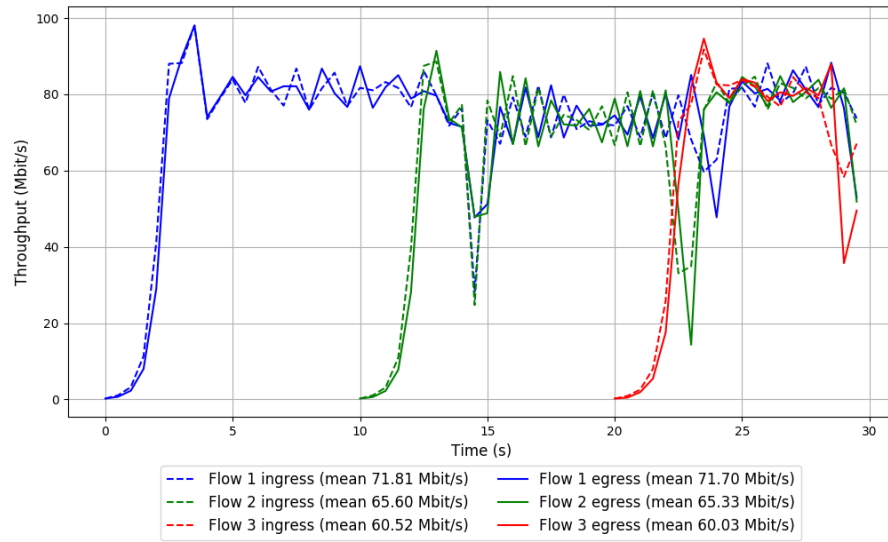
-- Flow 3:

Average throughput: 60.03 Mbit/s

95th percentile per-packet one-way delay: 163.245 ms

Loss rate: 3.52%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-17 06:48:41

End at: 2017-11-17 06:49:11

Below is generated by plot.py at 2017-11-17 10:50:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.45 Mbit/s

95th percentile per-packet one-way delay: 163.290 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 70.49 Mbit/s

95th percentile per-packet one-way delay: 163.306 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 67.41 Mbit/s

95th percentile per-packet one-way delay: 163.301 ms

Loss rate: 1.59%

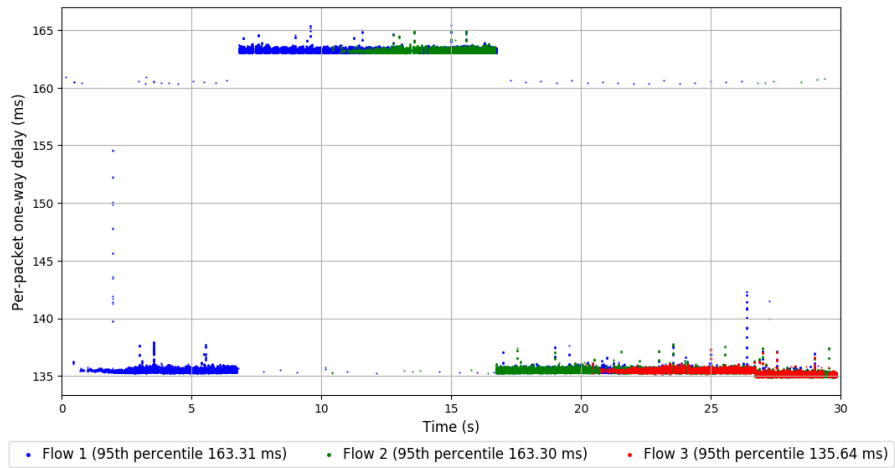
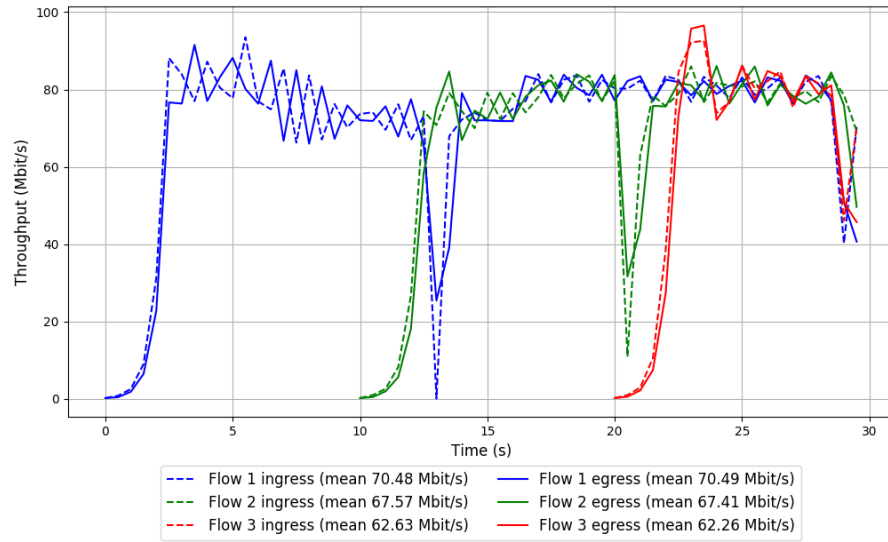
-- Flow 3:

Average throughput: 62.26 Mbit/s

95th percentile per-packet one-way delay: 135.641 ms

Loss rate: 3.31%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-17 07:01:48

End at: 2017-11-17 07:02:18

Below is generated by plot.py at 2017-11-17 10:50:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 140.50 Mbit/s

95th percentile per-packet one-way delay: 135.644 ms

Loss rate: 1.60%

-- Flow 1:

Average throughput: 72.80 Mbit/s

95th percentile per-packet one-way delay: 135.612 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 70.55 Mbit/s

95th percentile per-packet one-way delay: 135.636 ms

Loss rate: 1.57%

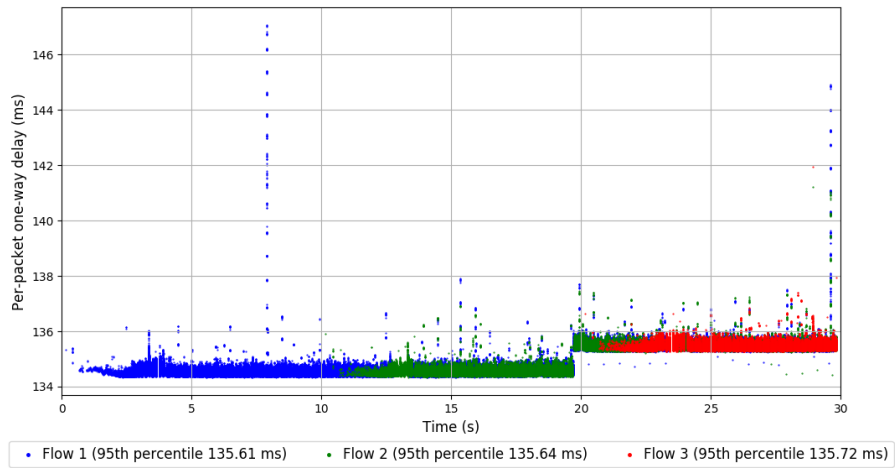
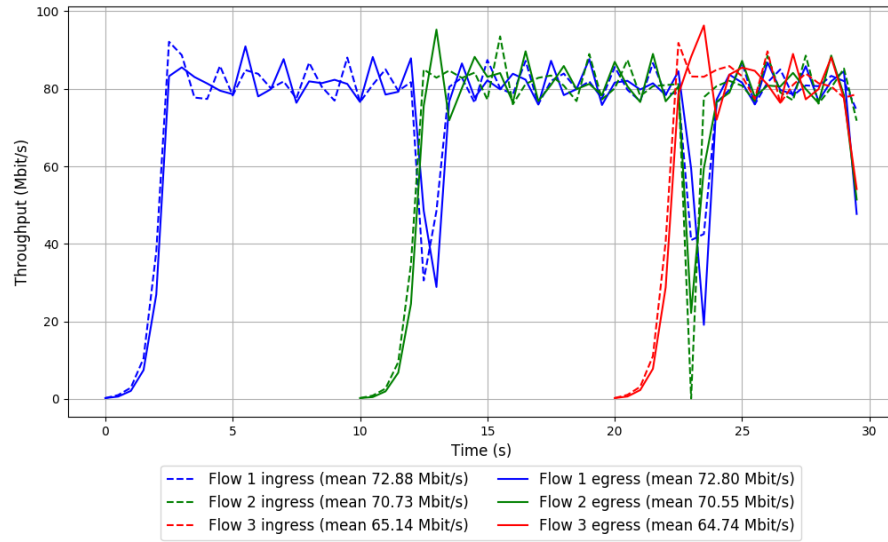
-- Flow 3:

Average throughput: 64.74 Mbit/s

95th percentile per-packet one-way delay: 135.722 ms

Loss rate: 3.31%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-17 07:15:45

End at: 2017-11-17 07:16:15

Below is generated by plot.py at 2017-11-17 10:50:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 138.54 Mbit/s

95th percentile per-packet one-way delay: 135.674 ms

Loss rate: 1.54%

-- Flow 1:

Average throughput: 71.57 Mbit/s

95th percentile per-packet one-way delay: 135.664 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 70.05 Mbit/s

95th percentile per-packet one-way delay: 135.649 ms

Loss rate: 1.45%

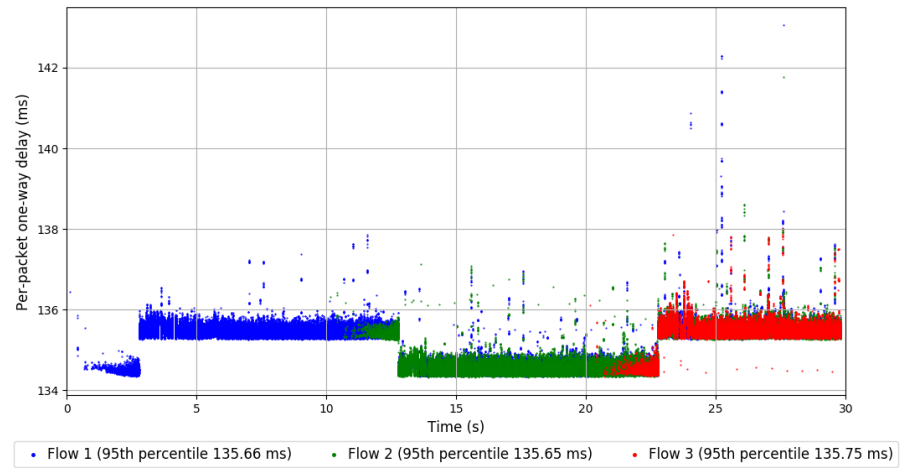
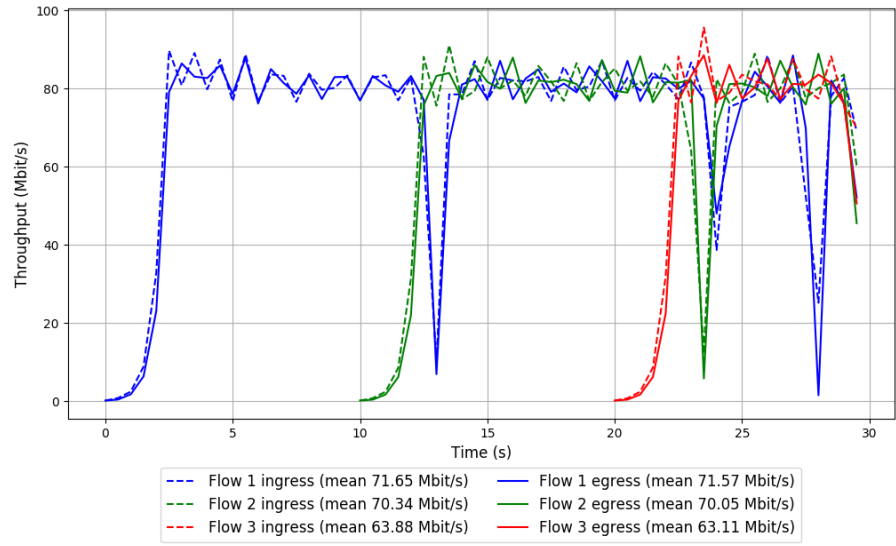
-- Flow 3:

Average throughput: 63.11 Mbit/s

95th percentile per-packet one-way delay: 135.747 ms

Loss rate: 3.47%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-17 07:29:41

End at: 2017-11-17 07:30:11

Below is generated by plot.py at 2017-11-17 10:50:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.78 Mbit/s

95th percentile per-packet one-way delay: 135.679 ms

Loss rate: 1.67%

-- Flow 1:

Average throughput: 72.90 Mbit/s

95th percentile per-packet one-way delay: 135.660 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 70.07 Mbit/s

95th percentile per-packet one-way delay: 135.706 ms

Loss rate: 1.66%

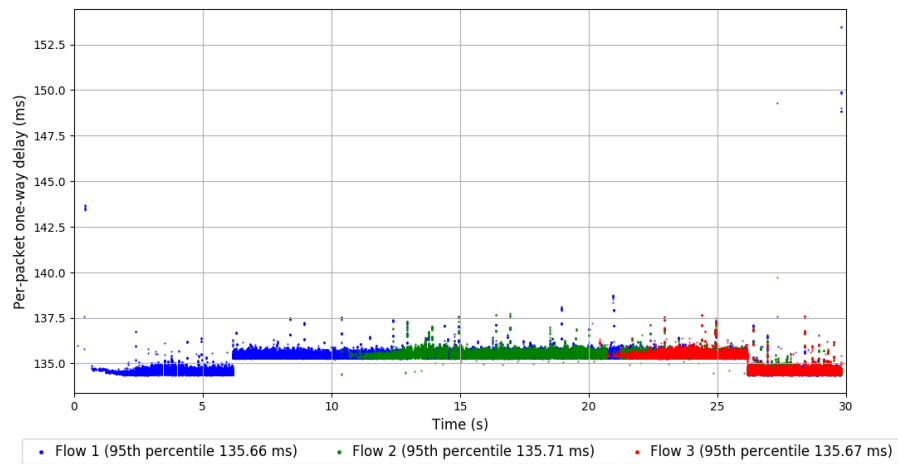
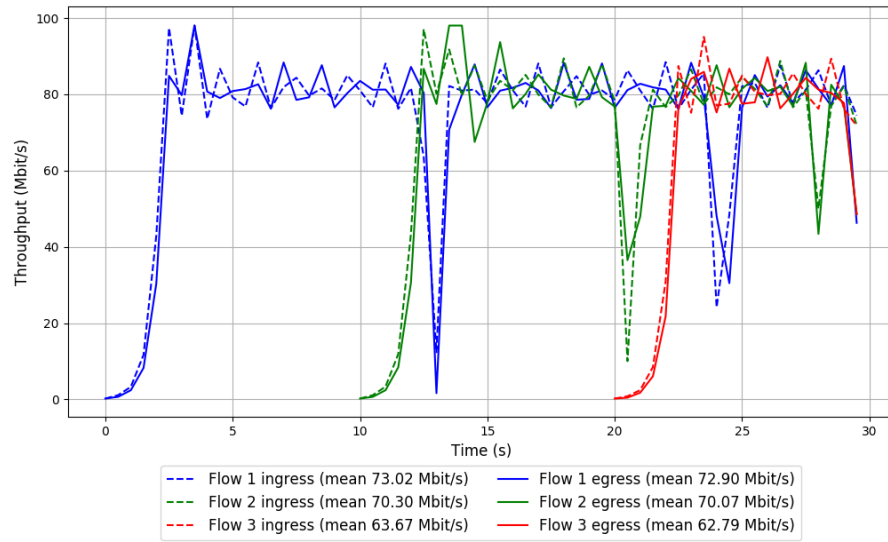
-- Flow 3:

Average throughput: 62.79 Mbit/s

95th percentile per-packet one-way delay: 135.668 ms

Loss rate: 3.75%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-17 07:43:29

End at: 2017-11-17 07:43:59

Below is generated by plot.py at 2017-11-17 10:50:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.48 Mbit/s

95th percentile per-packet one-way delay: 135.768 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 70.82 Mbit/s

95th percentile per-packet one-way delay: 135.747 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 69.00 Mbit/s

95th percentile per-packet one-way delay: 135.792 ms

Loss rate: 1.54%

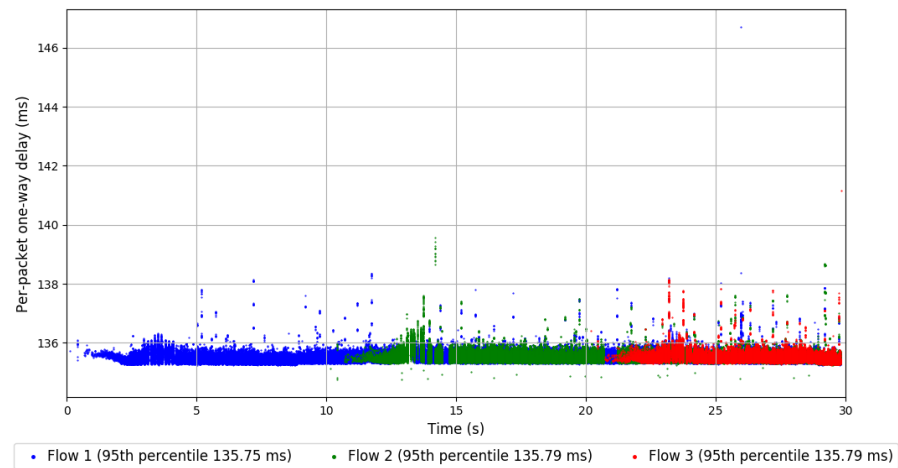
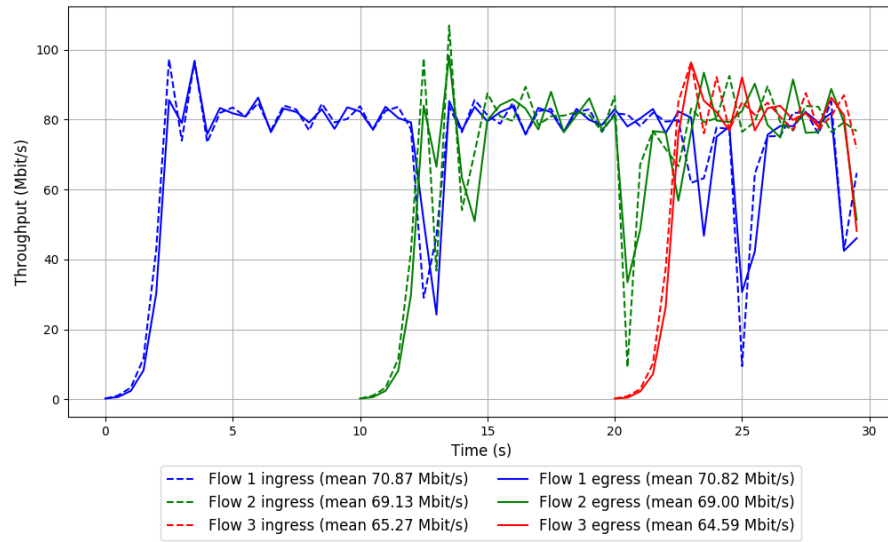
-- Flow 3:

Average throughput: 64.59 Mbit/s

95th percentile per-packet one-way delay: 135.788 ms

Loss rate: 3.69%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-17 07:57:19

End at: 2017-11-17 07:57:49

Below is generated by plot.py at 2017-11-17 10:52:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 143.19 Mbit/s

95th percentile per-packet one-way delay: 135.771 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 74.22 Mbit/s

95th percentile per-packet one-way delay: 135.841 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 72.68 Mbit/s

95th percentile per-packet one-way delay: 135.629 ms

Loss rate: 1.48%

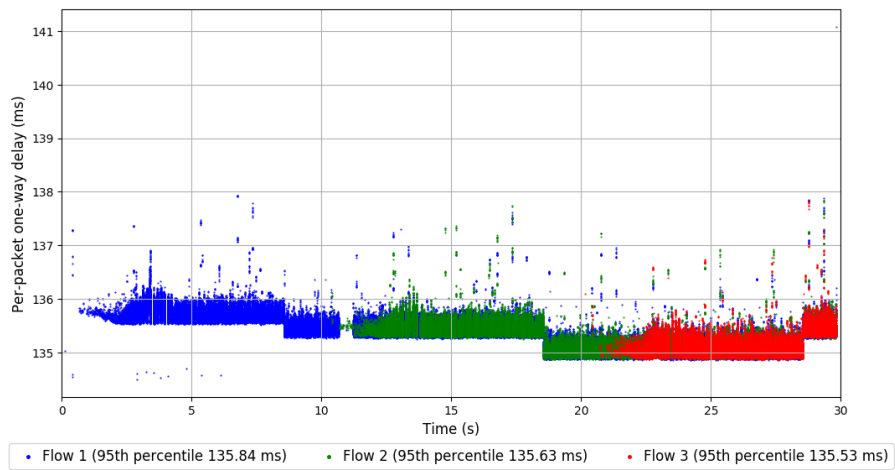
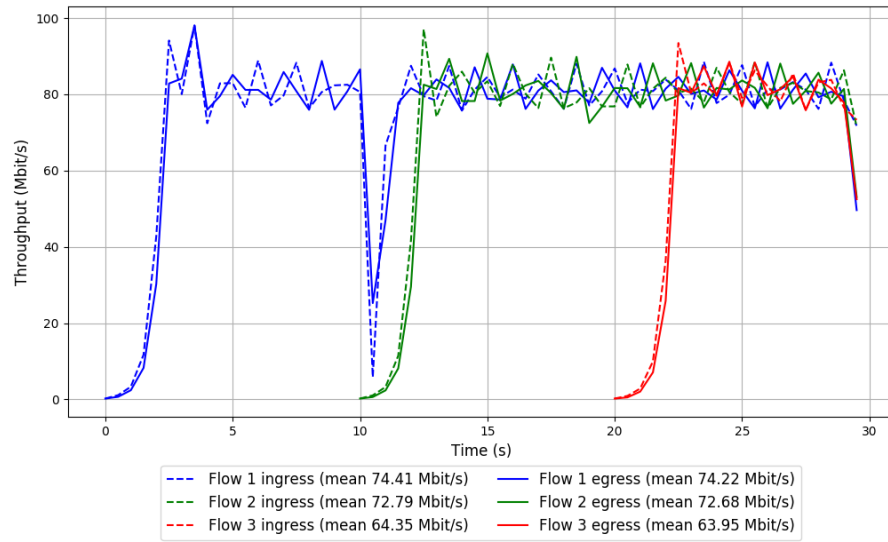
-- Flow 3:

Average throughput: 63.95 Mbit/s

95th percentile per-packet one-way delay: 135.528 ms

Loss rate: 3.34%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-17 08:11:22

End at: 2017-11-17 08:11:52

Below is generated by plot.py at 2017-11-17 10:52:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.84 Mbit/s

95th percentile per-packet one-way delay: 136.462 ms

Loss rate: 1.63%

-- Flow 1:

Average throughput: 71.90 Mbit/s

95th percentile per-packet one-way delay: 136.442 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 68.90 Mbit/s

95th percentile per-packet one-way delay: 136.468 ms

Loss rate: 1.62%

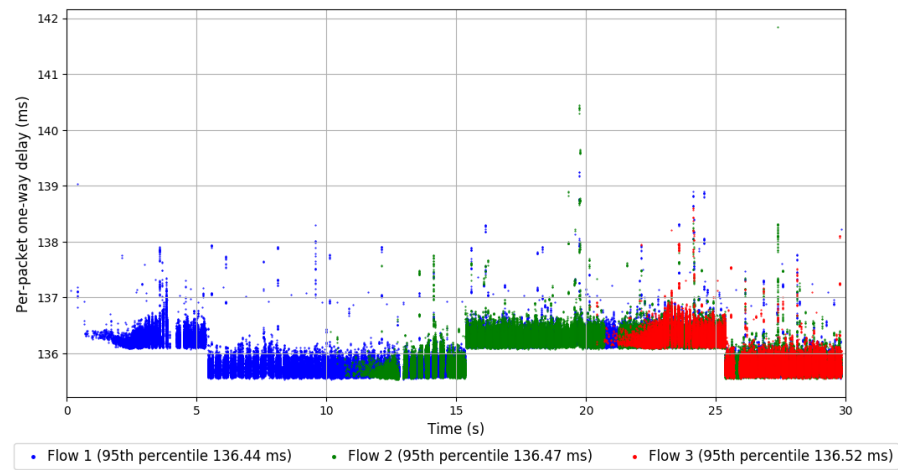
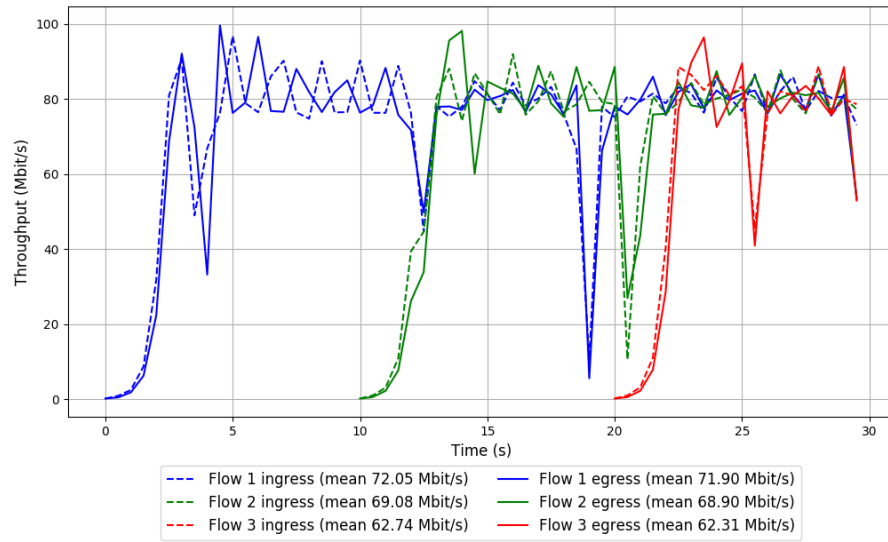
-- Flow 3:

Average throughput: 62.31 Mbit/s

95th percentile per-packet one-way delay: 136.522 ms

Loss rate: 3.42%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-17 06:17:54

End at: 2017-11-17 06:18:24

Below is generated by plot.py at 2017-11-17 10:52:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.76 Mbit/s

95th percentile per-packet one-way delay: 140.504 ms

Loss rate: 1.84%

-- Flow 1:

Average throughput: 31.26 Mbit/s

95th percentile per-packet one-way delay: 139.506 ms

Loss rate: 1.49%

-- Flow 2:

Average throughput: 41.09 Mbit/s

95th percentile per-packet one-way delay: 138.795 ms

Loss rate: 1.82%

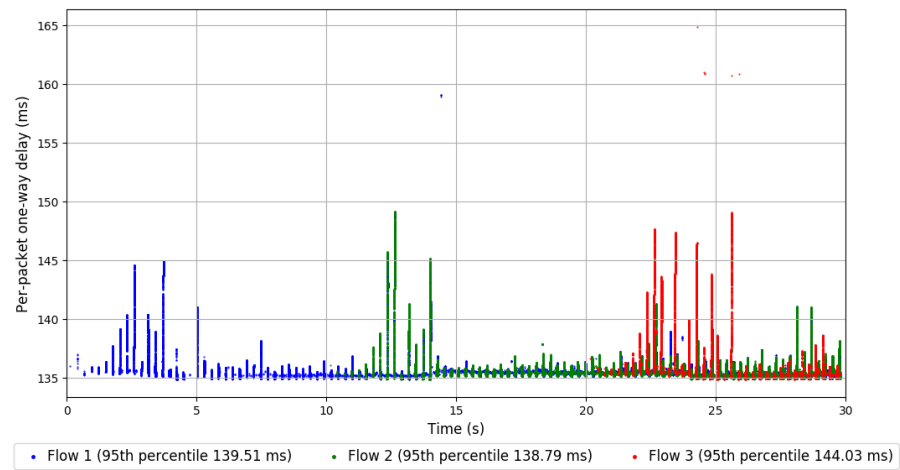
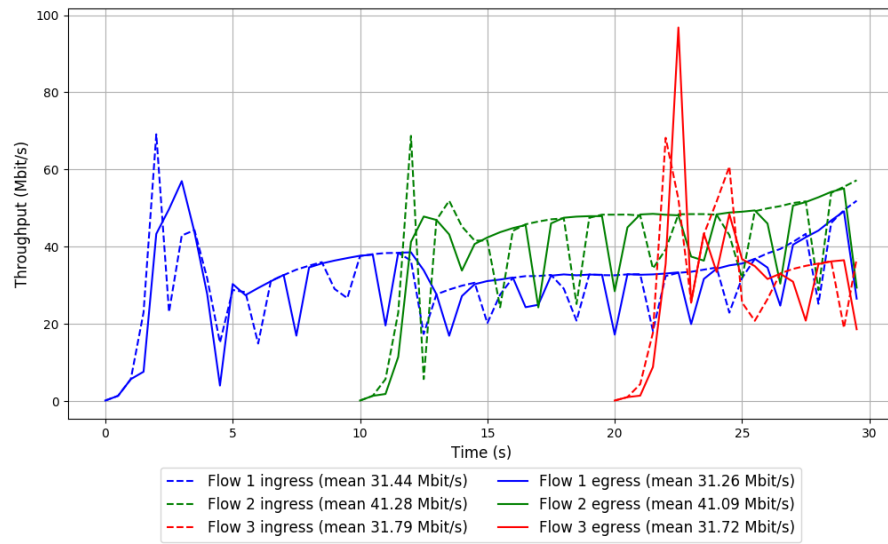
-- Flow 3:

Average throughput: 31.72 Mbit/s

95th percentile per-packet one-way delay: 144.031 ms

Loss rate: 2.95%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-17 06:31:18

End at: 2017-11-17 06:31:48

Below is generated by plot.py at 2017-11-17 10:52:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.78 Mbit/s

95th percentile per-packet one-way delay: 168.870 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 45.55 Mbit/s

95th percentile per-packet one-way delay: 168.720 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 41.44 Mbit/s

95th percentile per-packet one-way delay: 165.761 ms

Loss rate: 1.86%

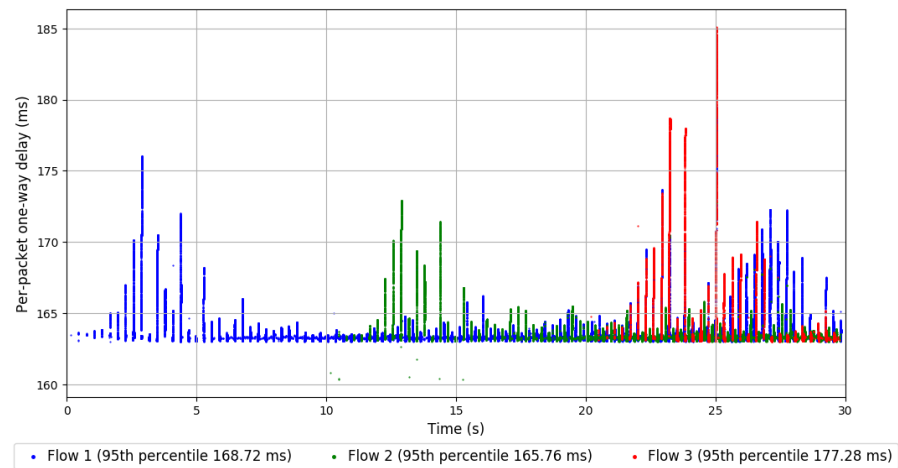
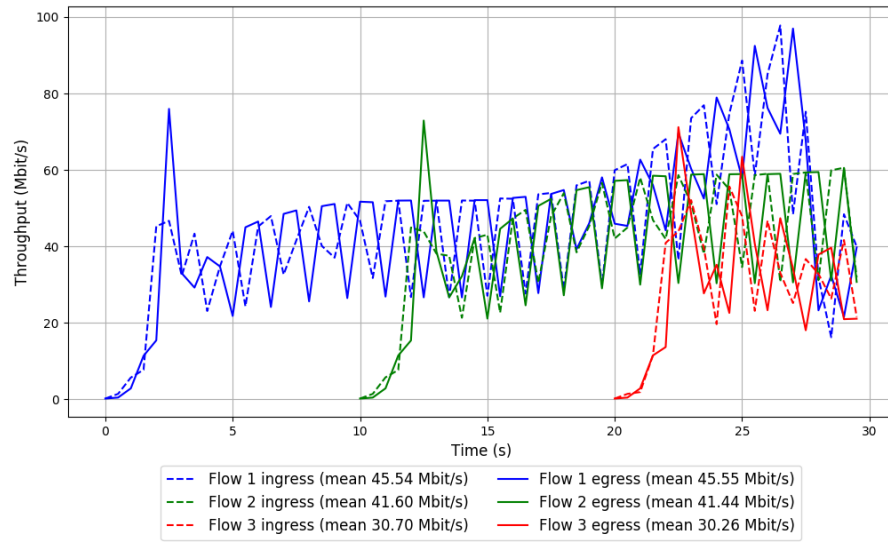
-- Flow 3:

Average throughput: 30.26 Mbit/s

95th percentile per-packet one-way delay: 177.278 ms

Loss rate: 3.56%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-17 06:44:49

End at: 2017-11-17 06:45:19

Below is generated by plot.py at 2017-11-17 10:52:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.14 Mbit/s

95th percentile per-packet one-way delay: 139.381 ms

Loss rate: 2.14%

-- Flow 1:

Average throughput: 41.35 Mbit/s

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

Loss rate: 1.95%

-- Flow 2:

Average throughput: 49.90 Mbit/s

95th percentile per-packet one-way delay: 138.358 ms

Loss rate: 1.78%

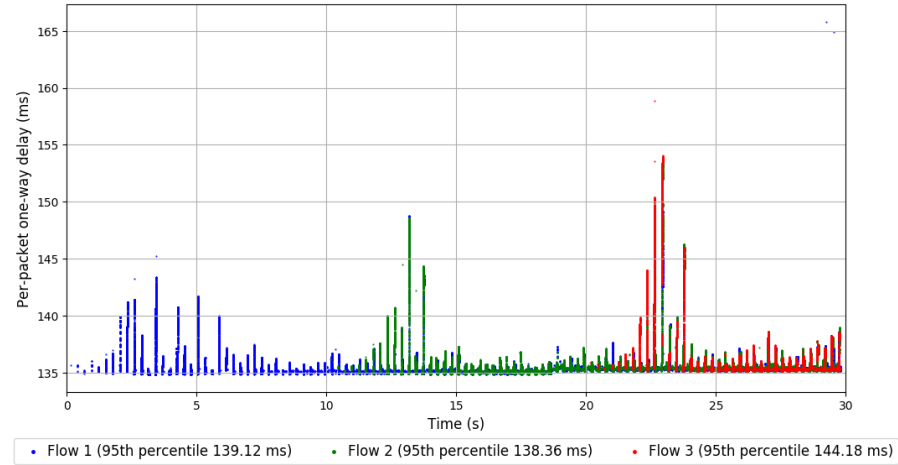
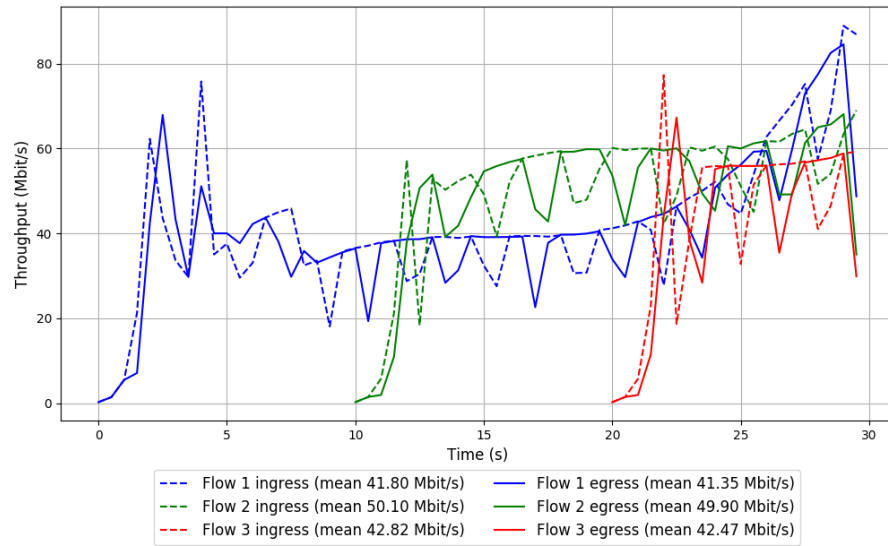
-- Flow 3:

Average throughput: 42.47 Mbit/s

95th percentile per-packet one-way delay: 144.177 ms

Loss rate: 3.54%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-17 06:58:14

End at: 2017-11-17 06:58:44

Below is generated by plot.py at 2017-11-17 10:52:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.15 Mbit/s

95th percentile per-packet one-way delay: 164.291 ms

Loss rate: 1.60%

-- Flow 1:

Average throughput: 39.73 Mbit/s

95th percentile per-packet one-way delay: 164.072 ms

Loss rate: 1.21%

-- Flow 2:

Average throughput: 42.34 Mbit/s

95th percentile per-packet one-way delay: 165.540 ms

Loss rate: 1.75%

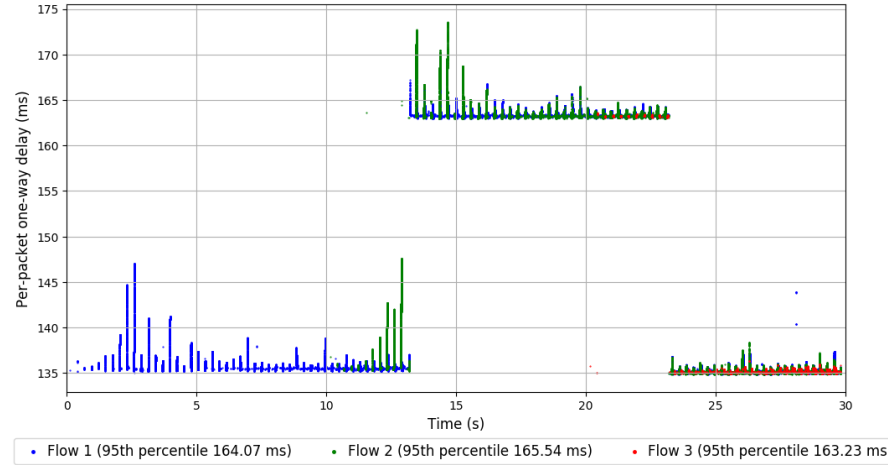
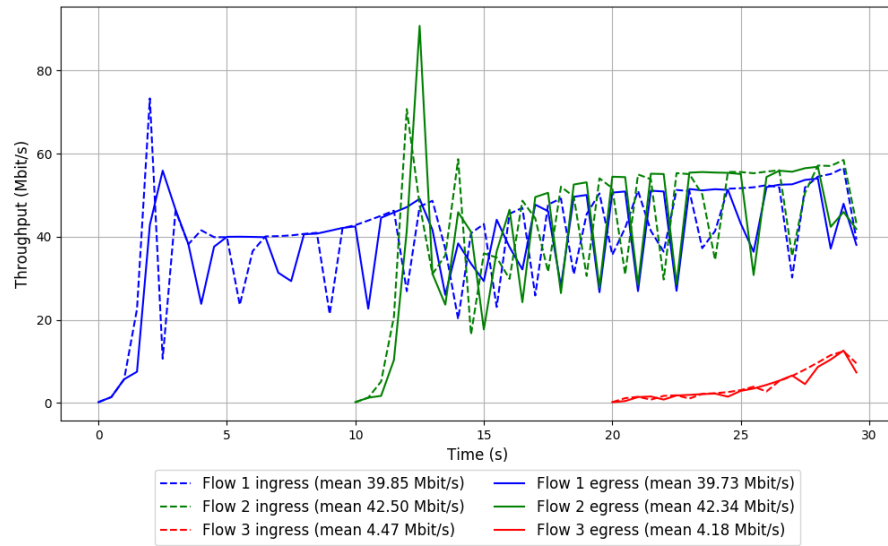
-- Flow 3:

Average throughput: 4.18 Mbit/s

95th percentile per-packet one-way delay: 163.231 ms

Loss rate: 8.85%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-17 07:12:01

End at: 2017-11-17 07:12:31

Below is generated by plot.py at 2017-11-17 10:52:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.41 Mbit/s

95th percentile per-packet one-way delay: 139.369 ms

Loss rate: 1.81%

-- Flow 1:

Average throughput: 36.43 Mbit/s

95th percentile per-packet one-way delay: 139.999 ms

Loss rate: 1.21%

-- Flow 2:

Average throughput: 41.63 Mbit/s

95th percentile per-packet one-way delay: 138.157 ms

Loss rate: 1.79%

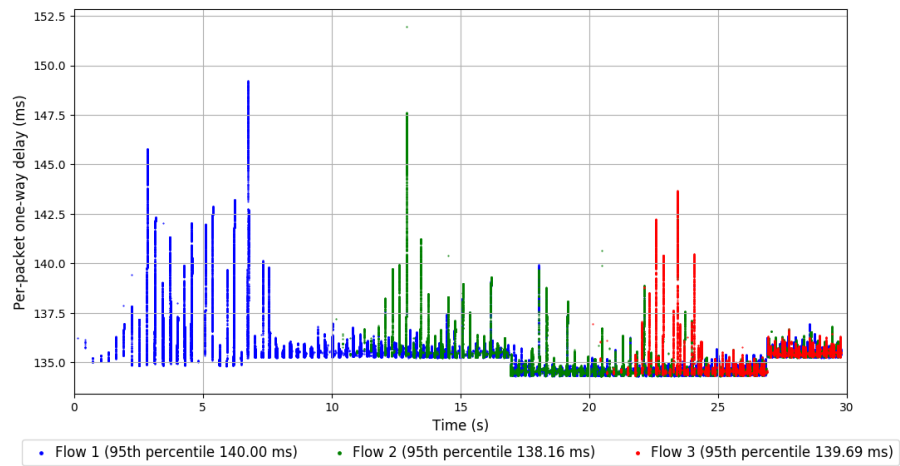
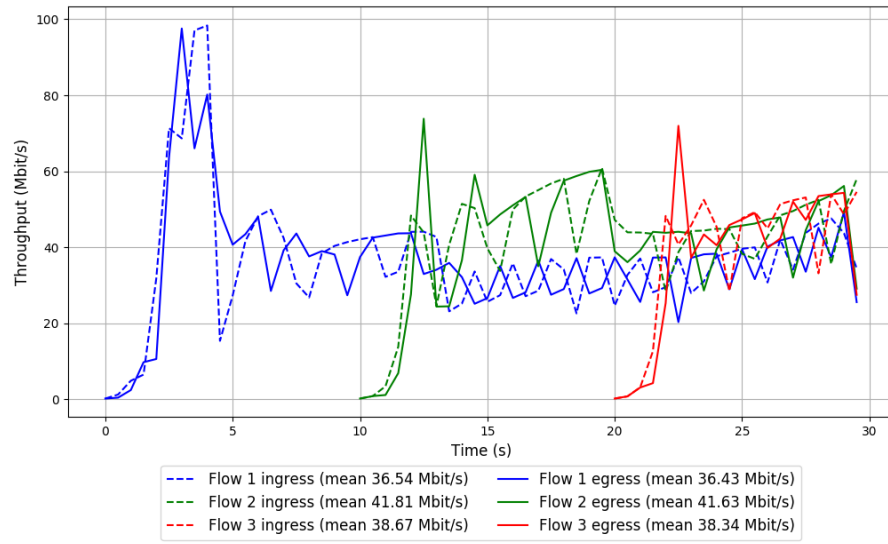
-- Flow 3:

Average throughput: 38.34 Mbit/s

95th percentile per-packet one-way delay: 139.692 ms

Loss rate: 3.57%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-17 07:26:06

End at: 2017-11-17 07:26:36

Below is generated by plot.py at 2017-11-17 10:52:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.01 Mbit/s

95th percentile per-packet one-way delay: 139.074 ms

Loss rate: 1.65%

-- Flow 1:

Average throughput: 35.92 Mbit/s

95th percentile per-packet one-way delay: 138.473 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 41.91 Mbit/s

95th percentile per-packet one-way delay: 139.649 ms

Loss rate: 1.51%

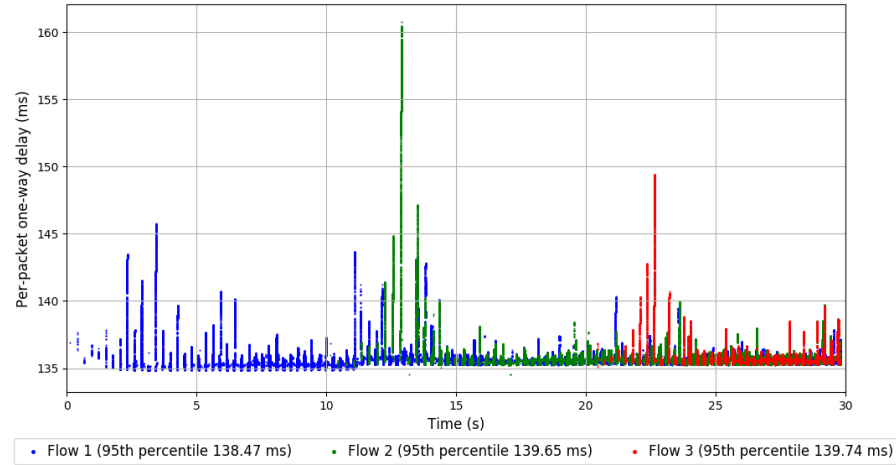
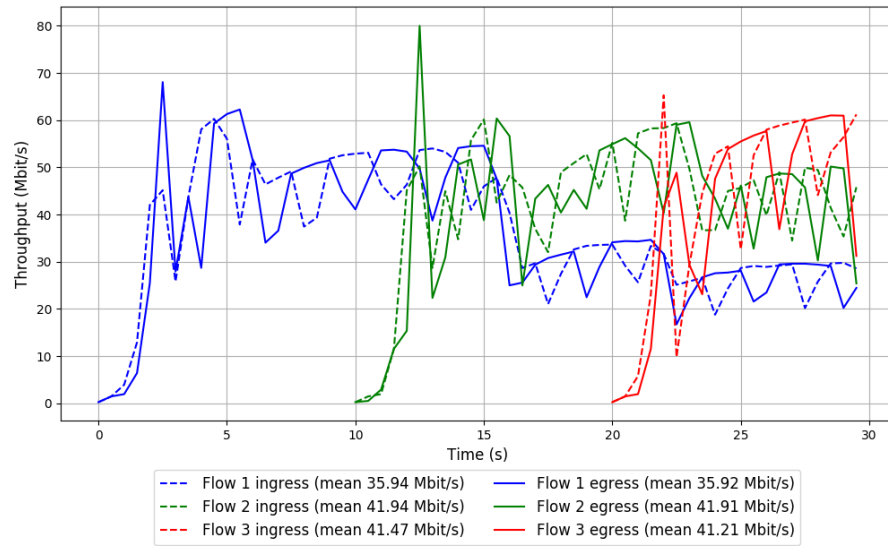
-- Flow 3:

Average throughput: 41.21 Mbit/s

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

Loss rate: 3.75%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-17 07:39:56

End at: 2017-11-17 07:40:26

Below is generated by plot.py at 2017-11-17 10:52:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.00 Mbit/s

95th percentile per-packet one-way delay: 137.874 ms

Loss rate: 2.48%

-- Flow 1:

Average throughput: 38.38 Mbit/s

95th percentile per-packet one-way delay: 137.657 ms

Loss rate: 2.46%

-- Flow 2:

Average throughput: 38.54 Mbit/s

95th percentile per-packet one-way delay: 137.512 ms

Loss rate: 2.08%

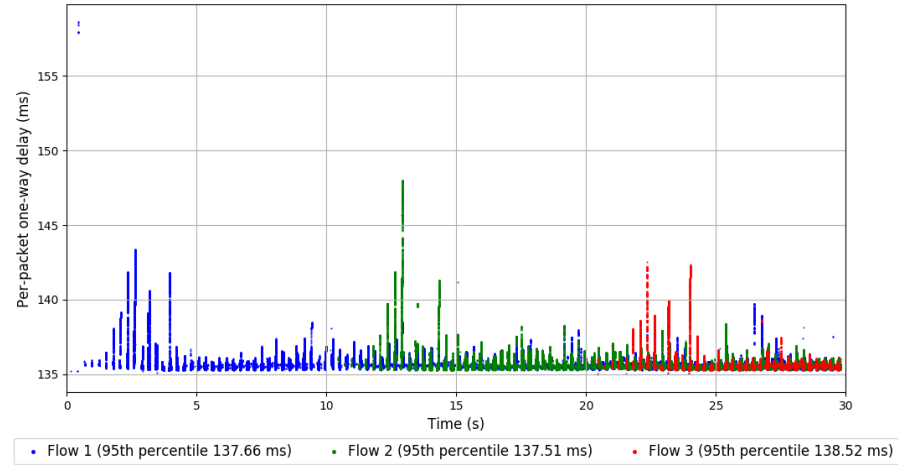
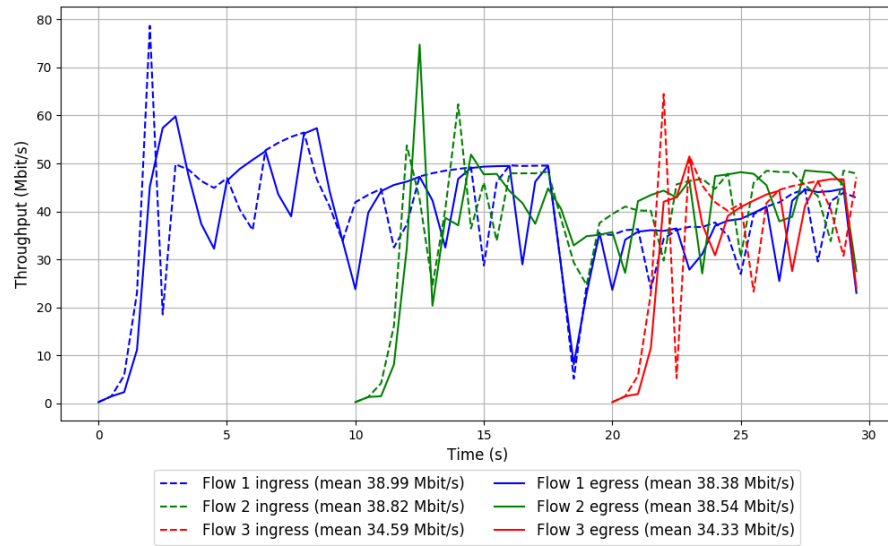
-- Flow 3:

Average throughput: 34.33 Mbit/s

95th percentile per-packet one-way delay: 138.518 ms

Loss rate: 3.45%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-17 07:53:34

End at: 2017-11-17 07:54:04

Below is generated by plot.py at 2017-11-17 10:52:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.92 Mbit/s

95th percentile per-packet one-way delay: 141.340 ms

Loss rate: 1.75%

-- Flow 1:

Average throughput: 40.83 Mbit/s

95th percentile per-packet one-way delay: 140.462 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 33.73 Mbit/s

95th percentile per-packet one-way delay: 140.243 ms

Loss rate: 1.74%

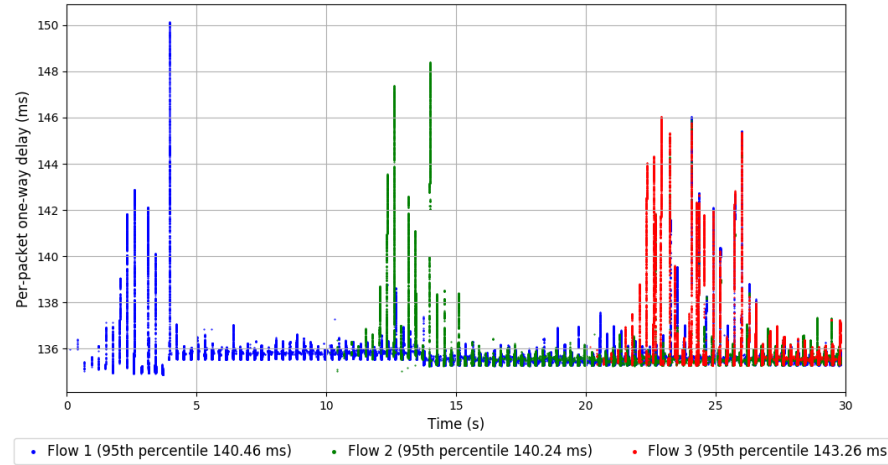
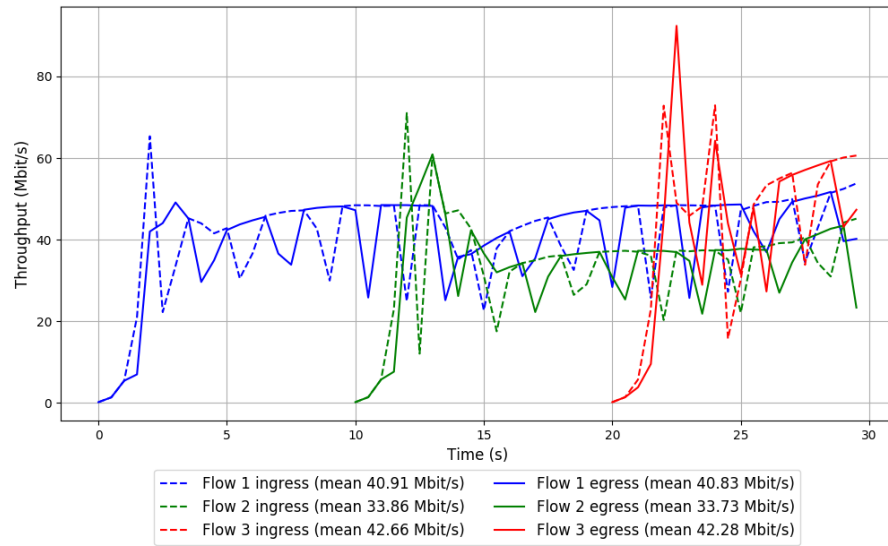
-- Flow 3:

Average throughput: 42.28 Mbit/s

95th percentile per-packet one-way delay: 143.265 ms

Loss rate: 3.59%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-17 08:07:37

End at: 2017-11-17 08:08:07

Below is generated by plot.py at 2017-11-17 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.95 Mbit/s

95th percentile per-packet one-way delay: 140.705 ms

Loss rate: 1.79%

-- Flow 1:

Average throughput: 44.35 Mbit/s

95th percentile per-packet one-way delay: 138.985 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 46.79 Mbit/s

95th percentile per-packet one-way delay: 141.494 ms

Loss rate: 2.40%

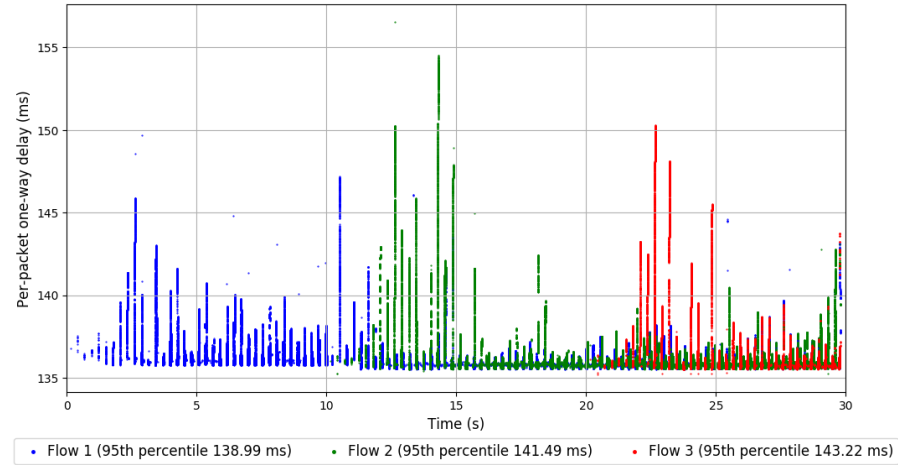
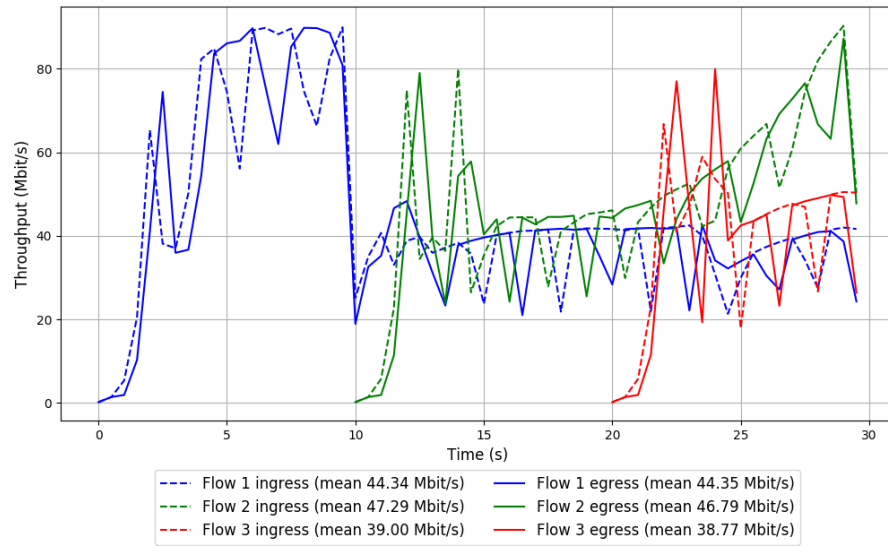
-- Flow 3:

Average throughput: 38.77 Mbit/s

95th percentile per-packet one-way delay: 143.221 ms

Loss rate: 3.33%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-17 08:21:32

End at: 2017-11-17 08:22:02

Below is generated by plot.py at 2017-11-17 10:53:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.10 Mbit/s

95th percentile per-packet one-way delay: 138.933 ms

Loss rate: 1.67%

-- Flow 1:

Average throughput: 62.90 Mbit/s

95th percentile per-packet one-way delay: 138.704 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 59.05 Mbit/s

95th percentile per-packet one-way delay: 139.268 ms

Loss rate: 1.69%

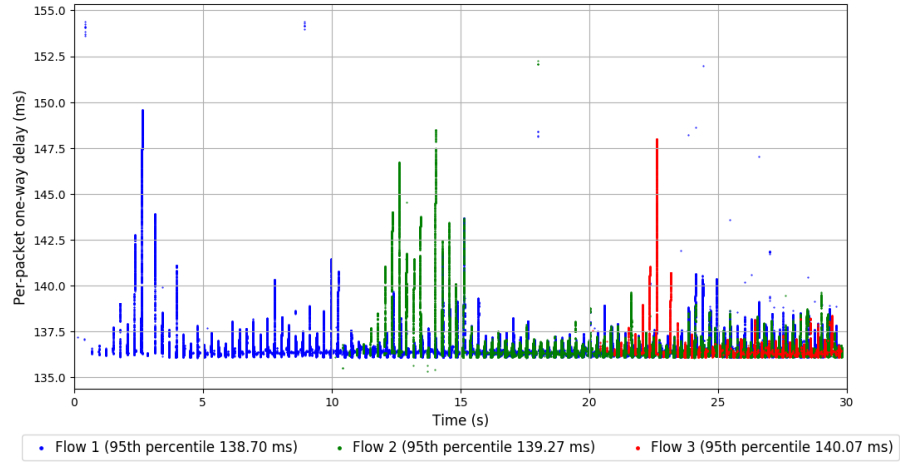
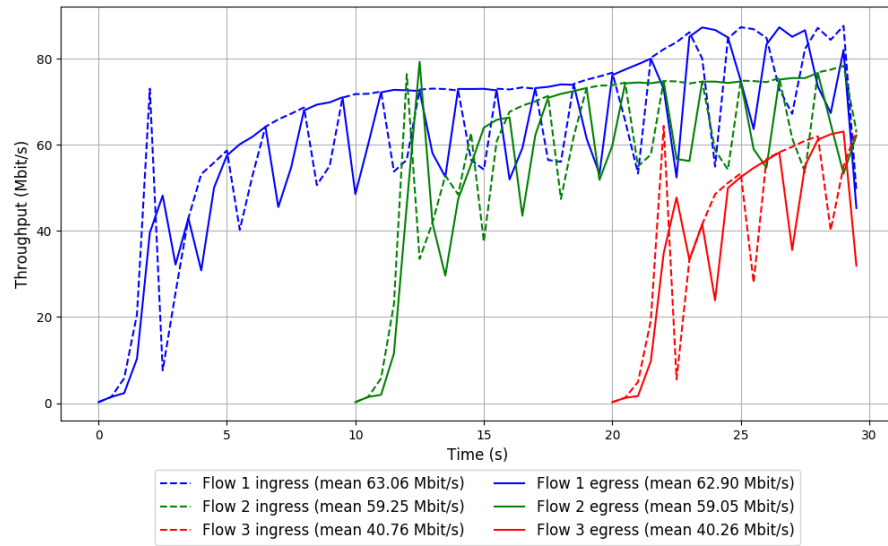
-- Flow 3:

Average throughput: 40.26 Mbit/s

95th percentile per-packet one-way delay: 140.070 ms

Loss rate: 3.96%

Run 10: Report of TCP Cubic — Data Link

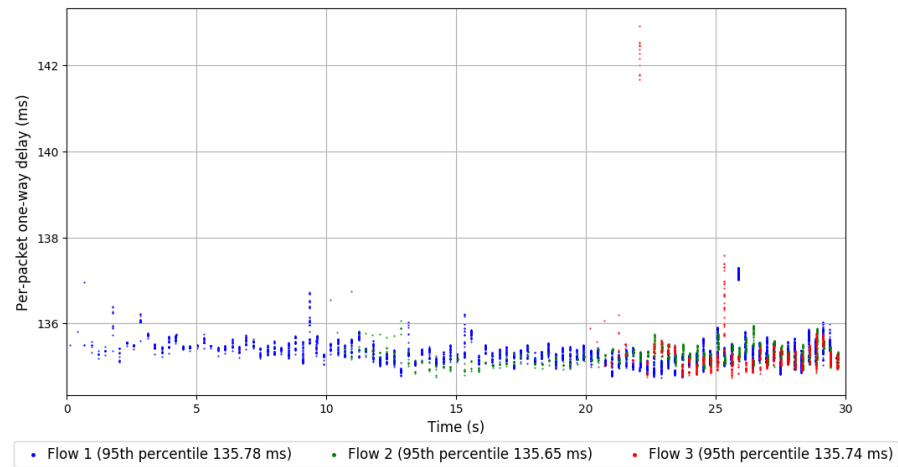
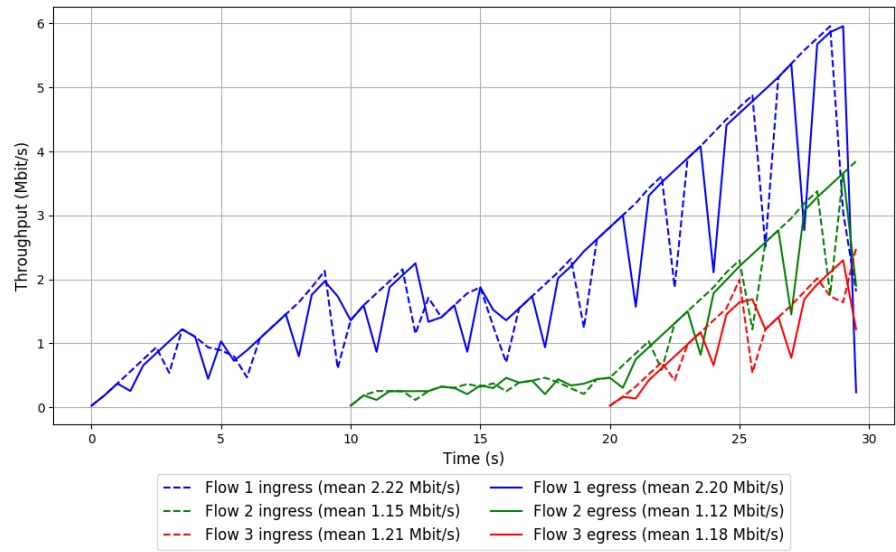


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-17 06:13:15
End at: 2017-11-17 06:13:45

# Below is generated by plot.py at 2017-11-17 10:53:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.32 Mbit/s
95th percentile per-packet one-way delay: 135.748 ms
Loss rate: 2.61%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 135.783 ms
Loss rate: 1.55%
-- Flow 2:
Average throughput: 1.12 Mbit/s
95th percentile per-packet one-way delay: 135.651 ms
Loss rate: 4.27%
-- Flow 3:
Average throughput: 1.18 Mbit/s
95th percentile per-packet one-way delay: 135.743 ms
Loss rate: 5.35%
```


Run 1: Report of LEDBAT — Data Link

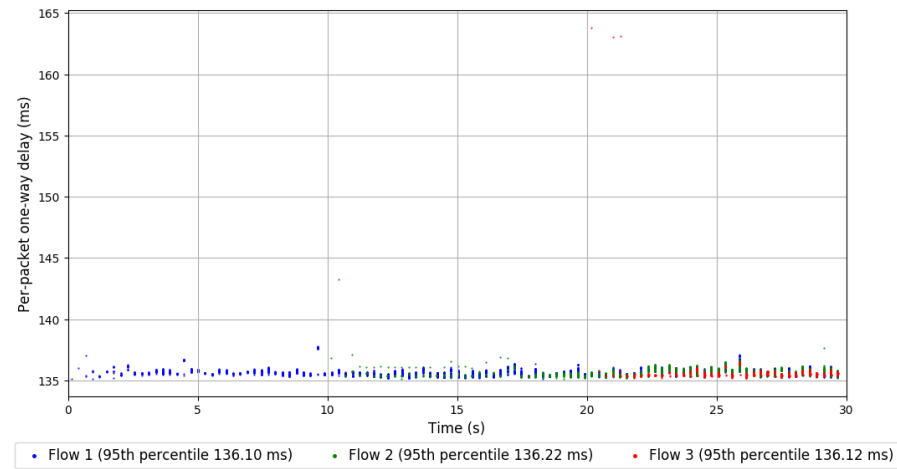
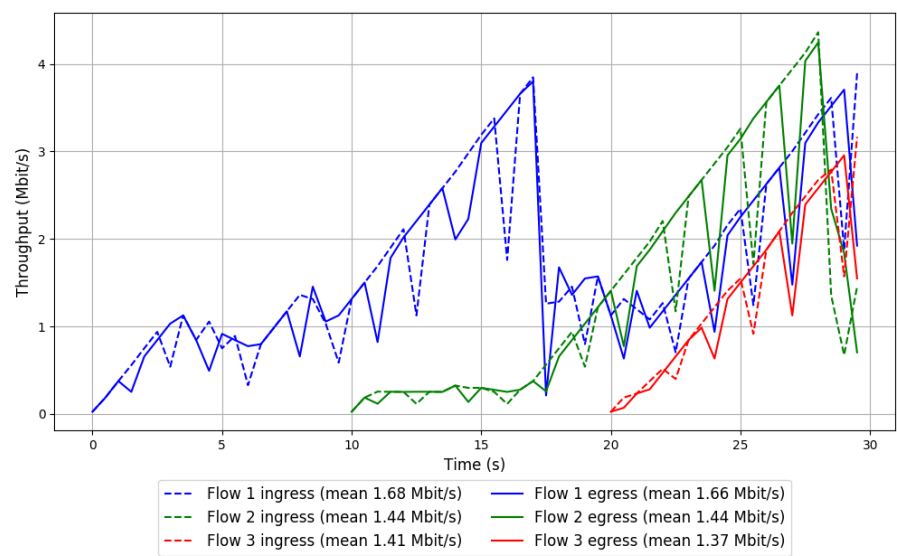


```
Run 2: Statistics of LEDBAT

Start at: 2017-11-17 06:26:42
End at: 2017-11-17 06:27:12

# Below is generated by plot.py at 2017-11-17 10:53:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.05 Mbit/s
95th percentile per-packet one-way delay: 136.144 ms
Loss rate: 2.40%
-- Flow 1:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 136.096 ms
Loss rate: 2.01%
-- Flow 2:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 136.222 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 1.37 Mbit/s
95th percentile per-packet one-way delay: 136.118 ms
Loss rate: 5.85%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-17 06:40:07

End at: 2017-11-17 06:40:37

Below is generated by plot.py at 2017-11-17 10:53:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.90 Mbit/s

95th percentile per-packet one-way delay: 135.906 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 135.877 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 135.938 ms

Loss rate: 1.37%

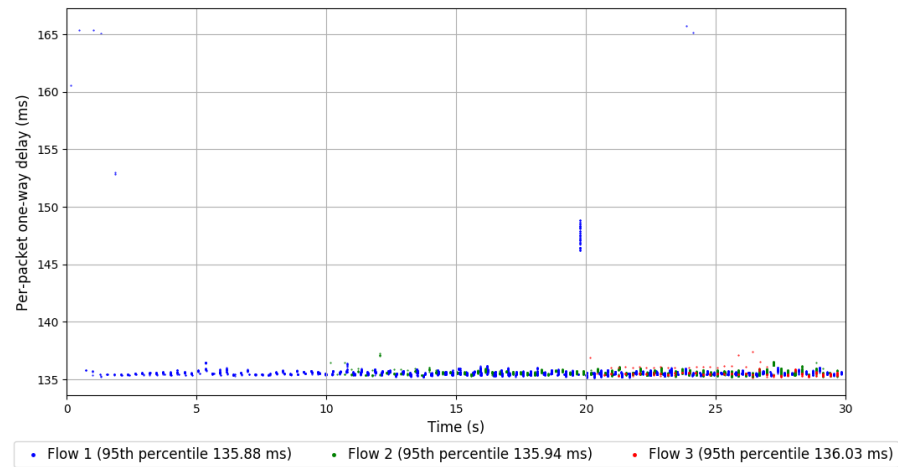
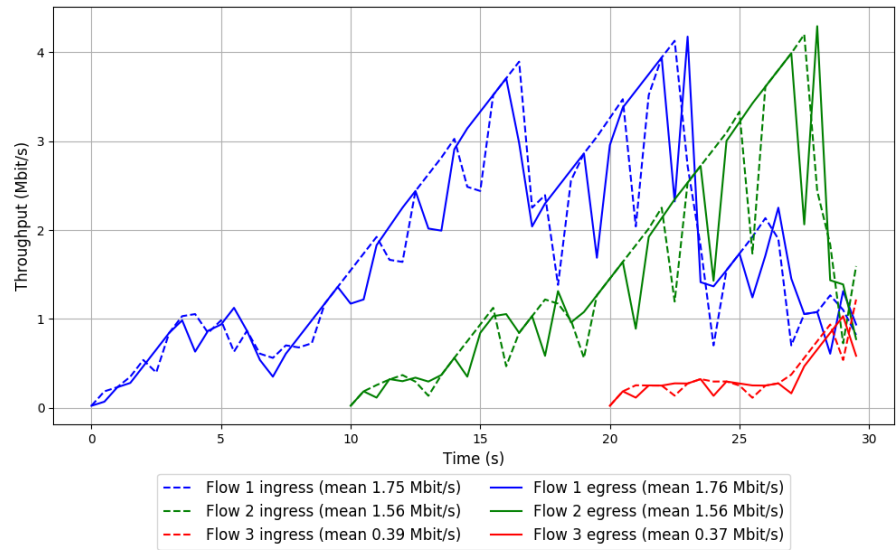
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.025 ms

Loss rate: 8.35%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-17 06:53:30

End at: 2017-11-17 06:54:00

Below is generated by plot.py at 2017-11-17 10:53:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.86 Mbit/s

95th percentile per-packet one-way delay: 163.898 ms

Loss rate: 2.46%

-- Flow 1:

Average throughput: 1.49 Mbit/s

95th percentile per-packet one-way delay: 163.780 ms

Loss rate: 1.84%

-- Flow 2:

Average throughput: 1.60 Mbit/s

95th percentile per-packet one-way delay: 164.086 ms

Loss rate: 2.14%

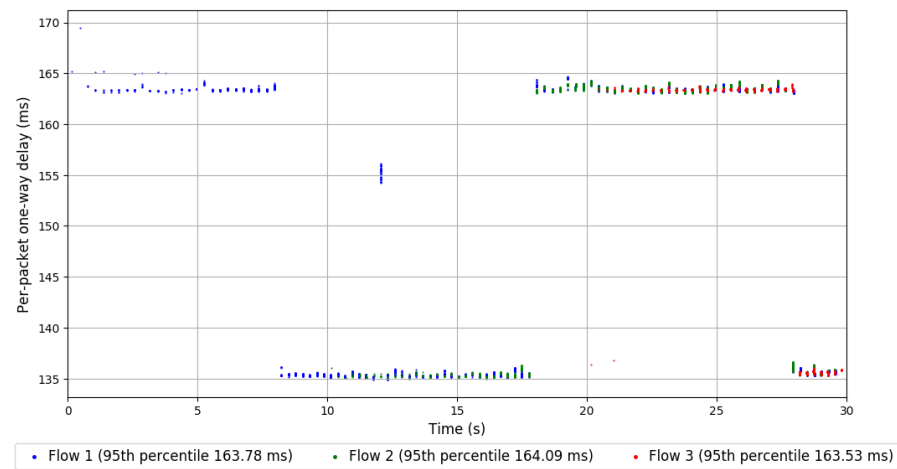
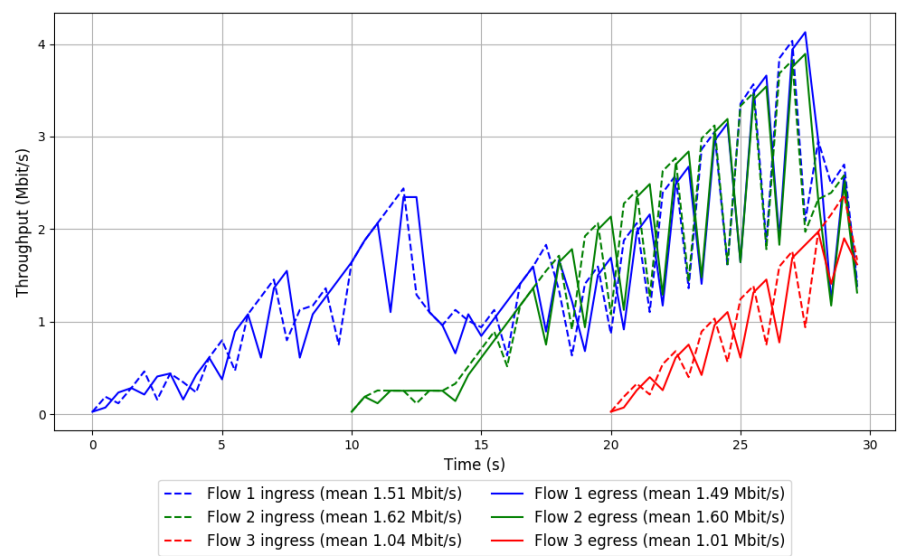
-- Flow 3:

Average throughput: 1.01 Mbit/s

95th percentile per-packet one-way delay: 163.532 ms

Loss rate: 6.12%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-17 07:07:20

End at: 2017-11-17 07:07:50

Below is generated by plot.py at 2017-11-17 10:53:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.99 Mbit/s

95th percentile per-packet one-way delay: 136.191 ms

Loss rate: 2.73%

-- Flow 1:

Average throughput: 2.71 Mbit/s

95th percentile per-packet one-way delay: 136.130 ms

Loss rate: 2.32%

-- Flow 2:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 136.257 ms

Loss rate: 2.84%

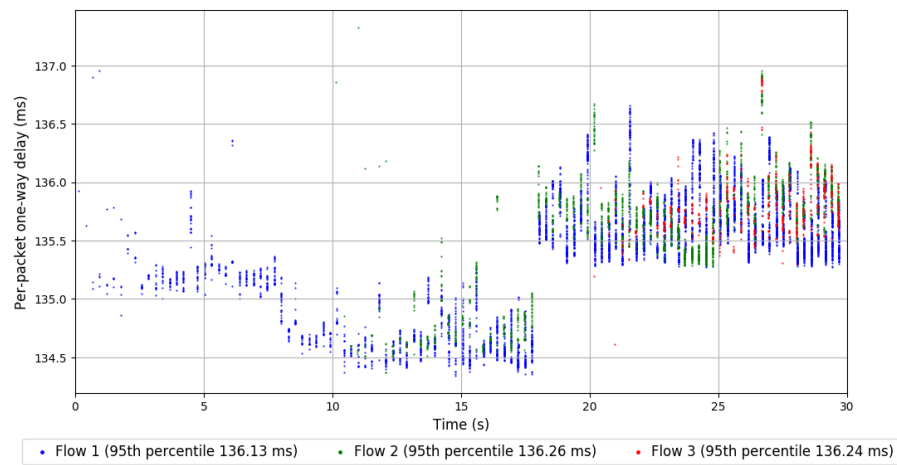
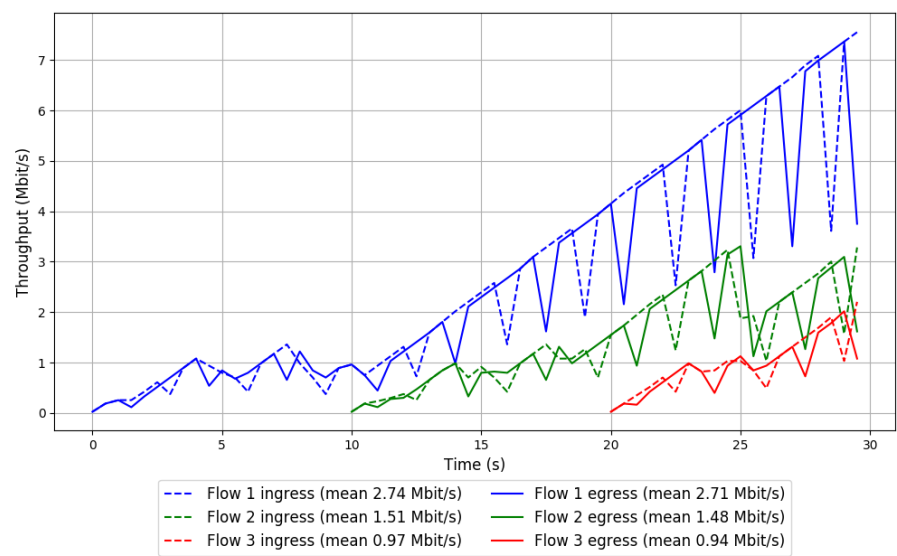
-- Flow 3:

Average throughput: 0.94 Mbit/s

95th percentile per-packet one-way delay: 136.239 ms

Loss rate: 5.92%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-17 07:21:27

End at: 2017-11-17 07:21:57

Below is generated by plot.py at 2017-11-17 10:53:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.238 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 1.70 Mbit/s

95th percentile per-packet one-way delay: 136.199 ms

Loss rate: 1.58%

-- Flow 2:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 136.133 ms

Loss rate: 1.29%

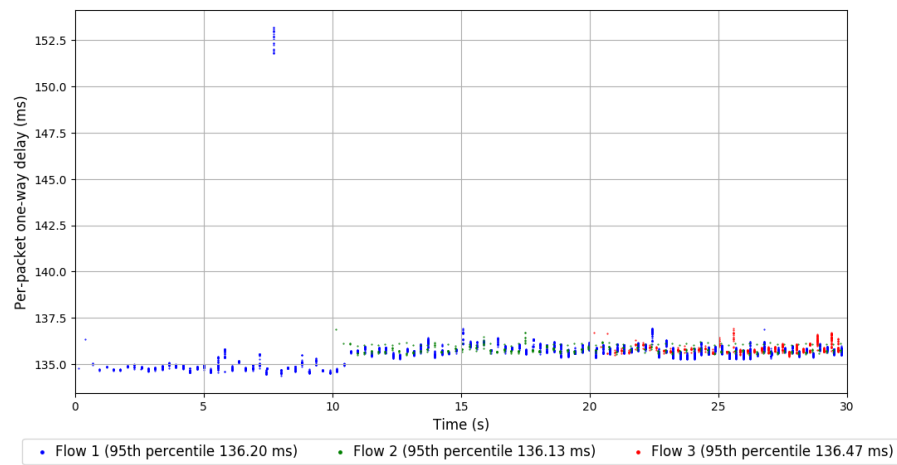
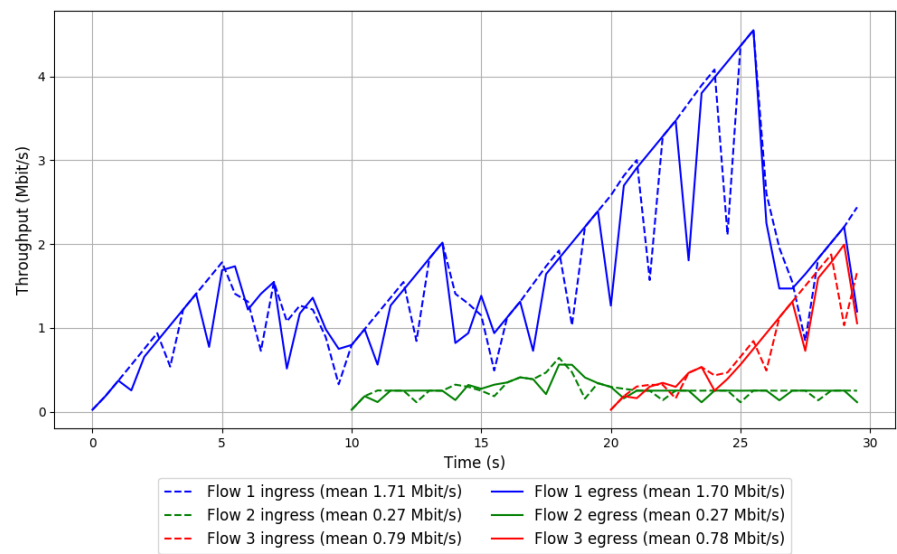
-- Flow 3:

Average throughput: 0.78 Mbit/s

95th percentile per-packet one-way delay: 136.470 ms

Loss rate: 3.96%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-17 07:35:21

End at: 2017-11-17 07:35:51

Below is generated by plot.py at 2017-11-17 10:53:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.65 Mbit/s

95th percentile per-packet one-way delay: 136.060 ms

Loss rate: 2.78%

-- Flow 1:

Average throughput: 1.18 Mbit/s

95th percentile per-packet one-way delay: 136.066 ms

Loss rate: 2.15%

-- Flow 2:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 136.039 ms

Loss rate: 3.18%

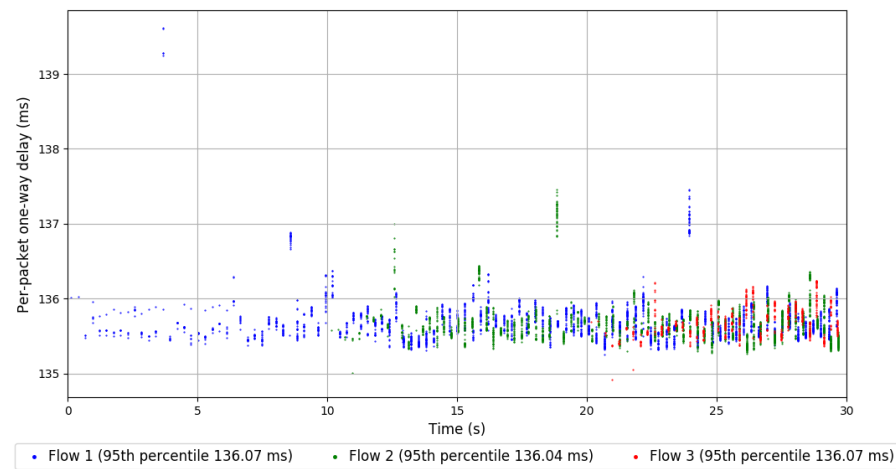
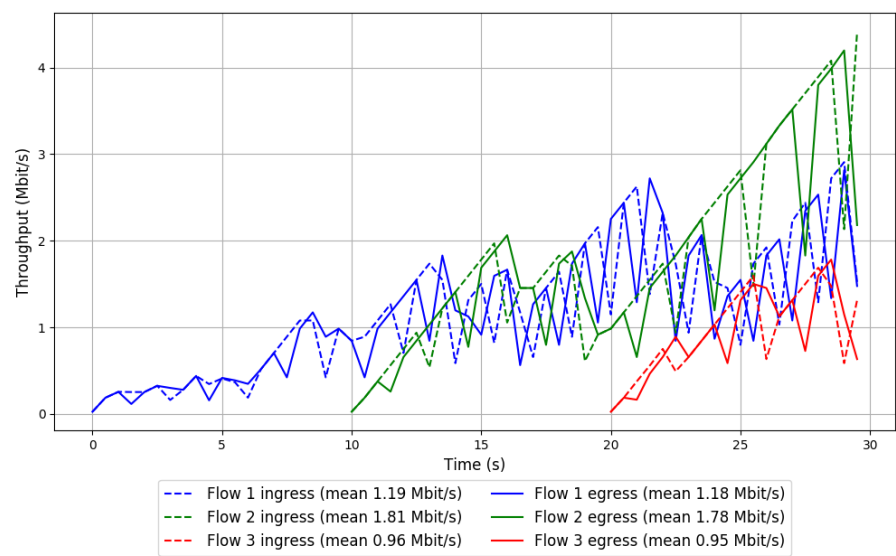
-- Flow 3:

Average throughput: 0.95 Mbit/s

95th percentile per-packet one-way delay: 136.074 ms

Loss rate: 3.62%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-17 07:48:58

End at: 2017-11-17 07:49:28

Below is generated by plot.py at 2017-11-17 10:53:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 136.609 ms

Loss rate: 2.78%

-- Flow 1:

Average throughput: 2.53 Mbit/s

95th percentile per-packet one-way delay: 136.670 ms

Loss rate: 2.49%

-- Flow 2:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 136.547 ms

Loss rate: 3.05%

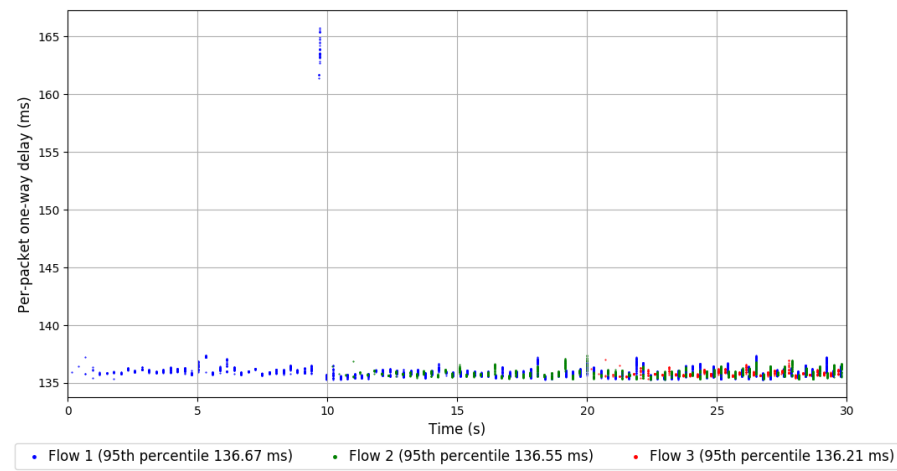
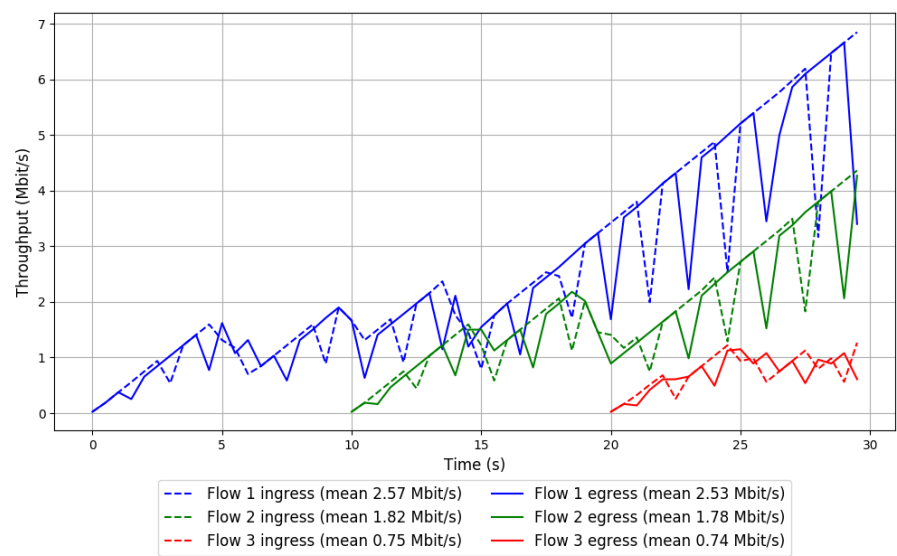
-- Flow 3:

Average throughput: 0.74 Mbit/s

95th percentile per-packet one-way delay: 136.213 ms

Loss rate: 4.49%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-17 08:02:58

End at: 2017-11-17 08:03:28

Below is generated by plot.py at 2017-11-17 10:53:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.55 Mbit/s

95th percentile per-packet one-way delay: 136.600 ms

Loss rate: 2.95%

-- Flow 1:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 136.640 ms

Loss rate: 2.49%

-- Flow 2:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 136.288 ms

Loss rate: 1.21%

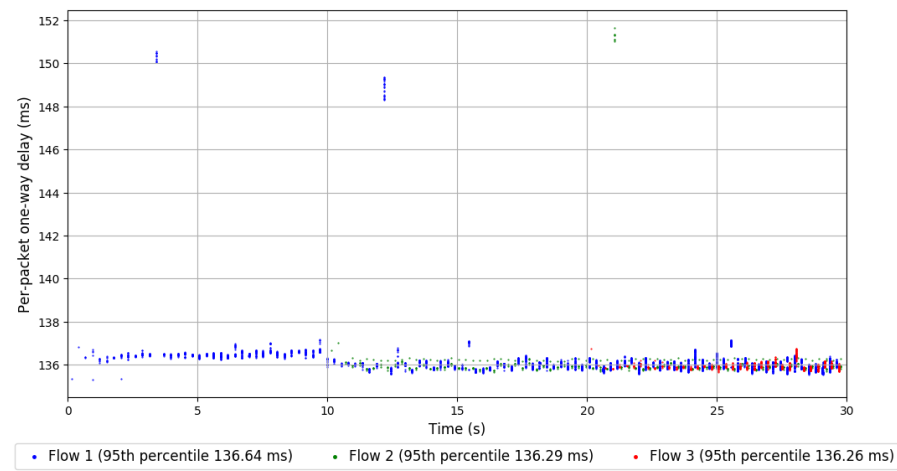
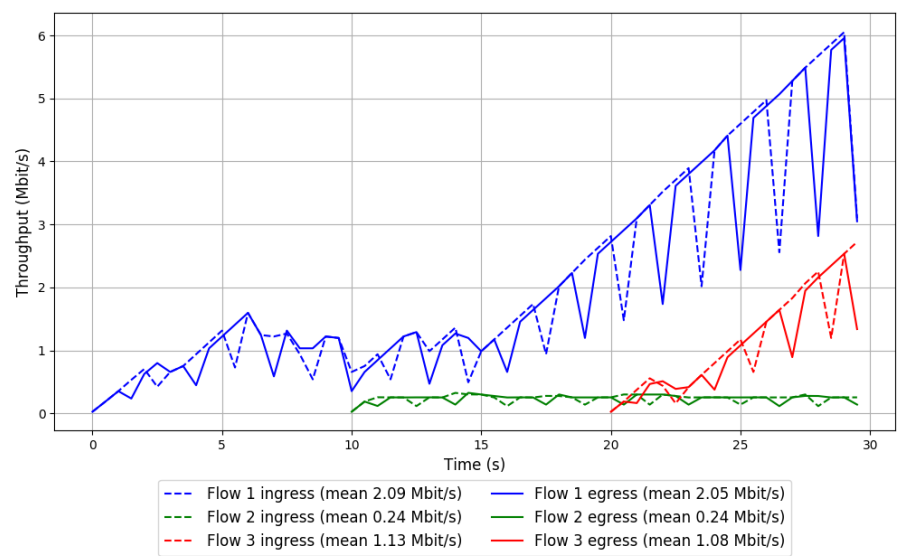
-- Flow 3:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 136.263 ms

Loss rate: 6.27%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-17 08:16:49

End at: 2017-11-17 08:17:19

Below is generated by plot.py at 2017-11-17 10:53:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.45 Mbit/s

95th percentile per-packet one-way delay: 136.926 ms

Loss rate: 1.81%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 136.994 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 136.805 ms

Loss rate: 3.25%

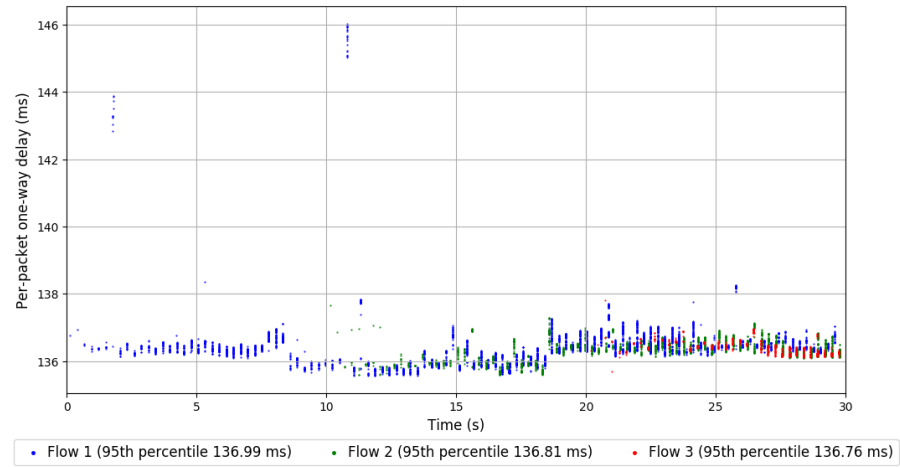
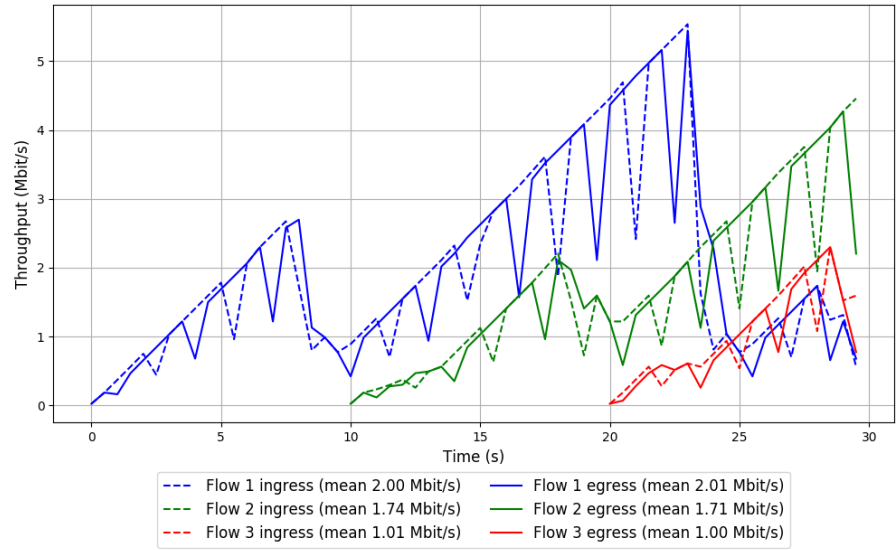
-- Flow 3:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 136.762 ms

Loss rate: 4.13%

Run 10: Report of LEDBAT — Data Link

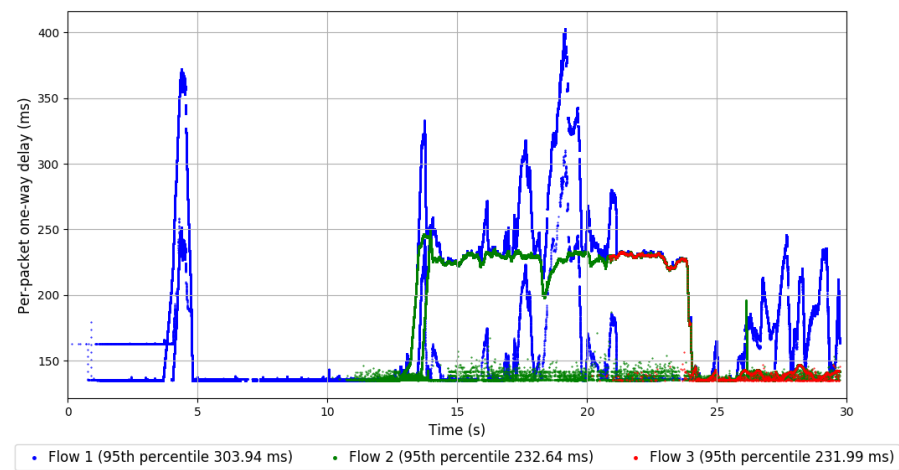
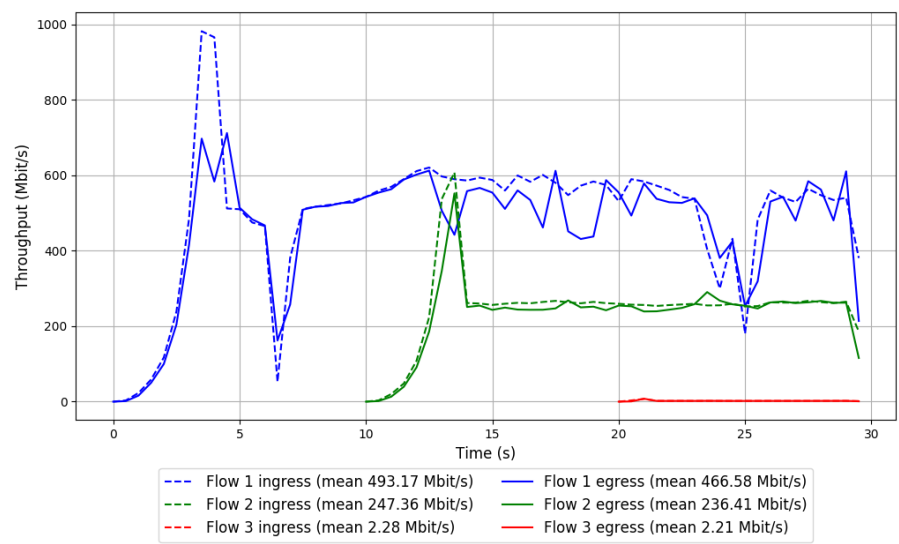


```
Run 1: Statistics of PCC

Start at: 2017-11-17 06:15:43
End at: 2017-11-17 06:16:13

# Below is generated by plot.py at 2017-11-17 11:02:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 623.40 Mbit/s
95th percentile per-packet one-way delay: 283.897 ms
Loss rate: 6.19%
-- Flow 1:
Average throughput: 466.58 Mbit/s
95th percentile per-packet one-way delay: 303.945 ms
Loss rate: 6.34%
-- Flow 2:
Average throughput: 236.41 Mbit/s
95th percentile per-packet one-way delay: 232.639 ms
Loss rate: 5.75%
-- Flow 3:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 231.988 ms
Loss rate: 5.48%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-11-17 06:29:08

End at: 2017-11-17 06:29:38

Below is generated by plot.py at 2017-11-17 11:03:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 658.37 Mbit/s

95th percentile per-packet one-way delay: 225.214 ms

Loss rate: 2.60%

-- Flow 1:

Average throughput: 555.52 Mbit/s

95th percentile per-packet one-way delay: 225.562 ms

Loss rate: 2.58%

-- Flow 2:

Average throughput: 139.55 Mbit/s

95th percentile per-packet one-way delay: 224.550 ms

Loss rate: 2.60%

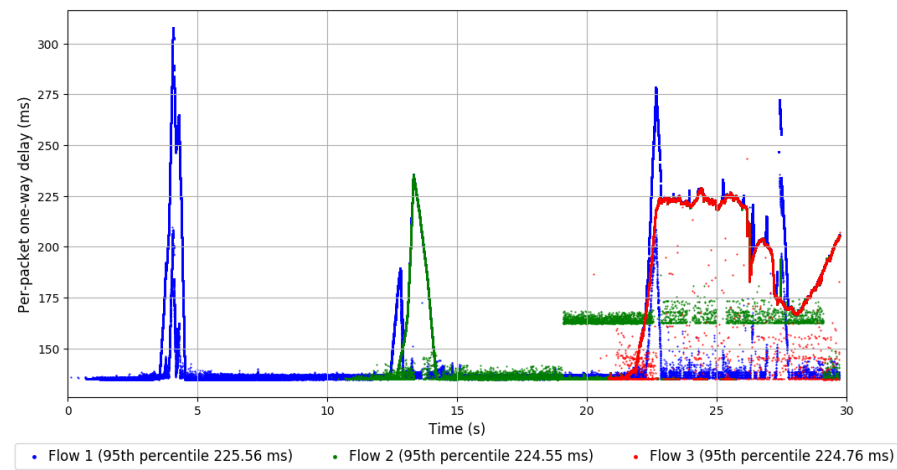
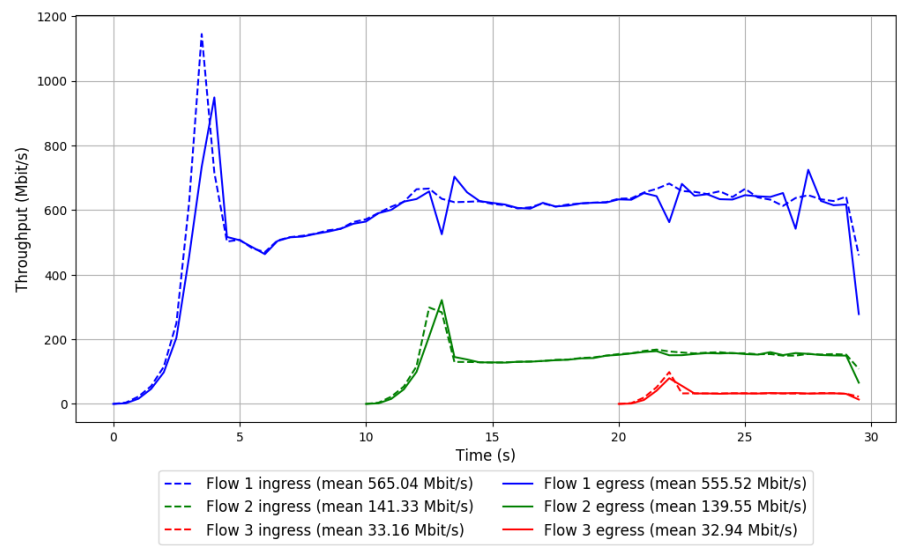
-- Flow 3:

Average throughput: 32.94 Mbit/s

95th percentile per-packet one-way delay: 224.764 ms

Loss rate: 3.91%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-17 06:42:43

End at: 2017-11-17 06:43:13

Below is generated by plot.py at 2017-11-17 11:03:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 572.57 Mbit/s

95th percentile per-packet one-way delay: 282.573 ms

Loss rate: 2.94%

-- Flow 1:

Average throughput: 490.26 Mbit/s

95th percentile per-packet one-way delay: 283.648 ms

Loss rate: 2.95%

-- Flow 2:

Average throughput: 123.32 Mbit/s

95th percentile per-packet one-way delay: 280.637 ms

Loss rate: 2.82%

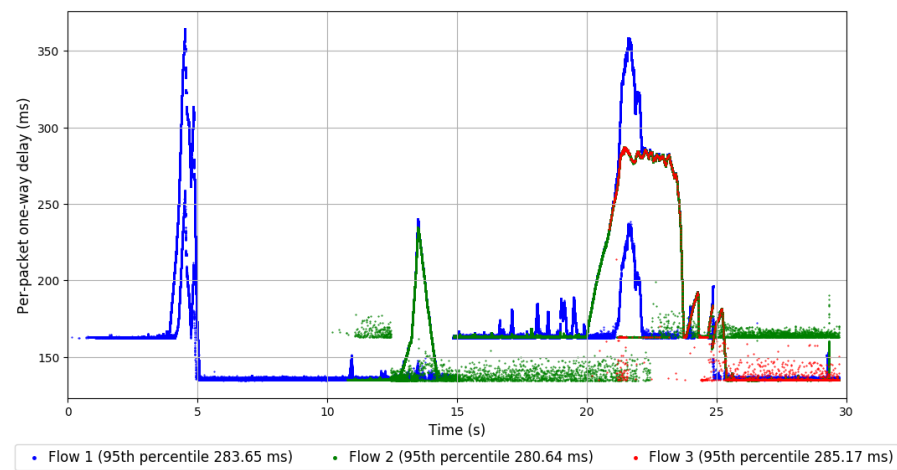
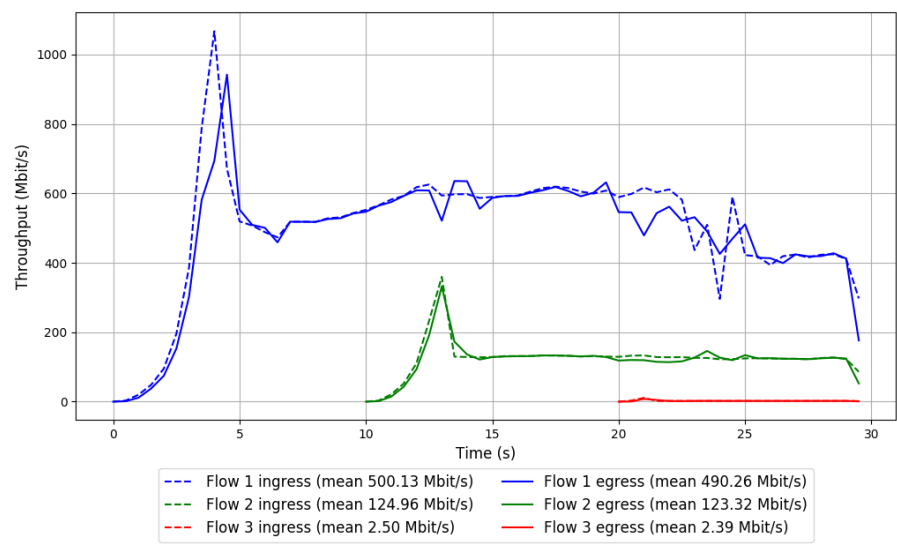
-- Flow 3:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 285.174 ms

Loss rate: 7.24%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-17 06:56:05

End at: 2017-11-17 06:56:35

Below is generated by plot.py at 2017-11-17 11:03:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 640.79 Mbit/s

95th percentile per-packet one-way delay: 239.085 ms

Loss rate: 3.27%

-- Flow 1:

Average throughput: 478.25 Mbit/s

95th percentile per-packet one-way delay: 245.520 ms

Loss rate: 3.19%

-- Flow 2:

Average throughput: 243.86 Mbit/s

95th percentile per-packet one-way delay: 228.813 ms

Loss rate: 3.51%

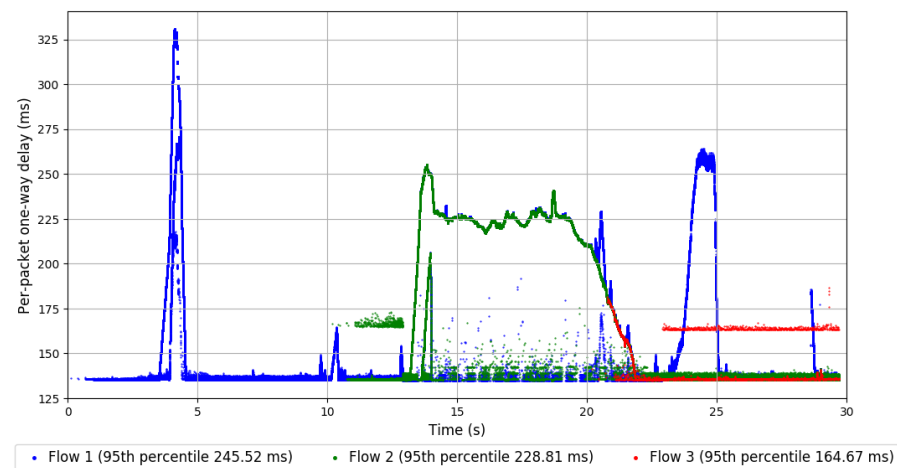
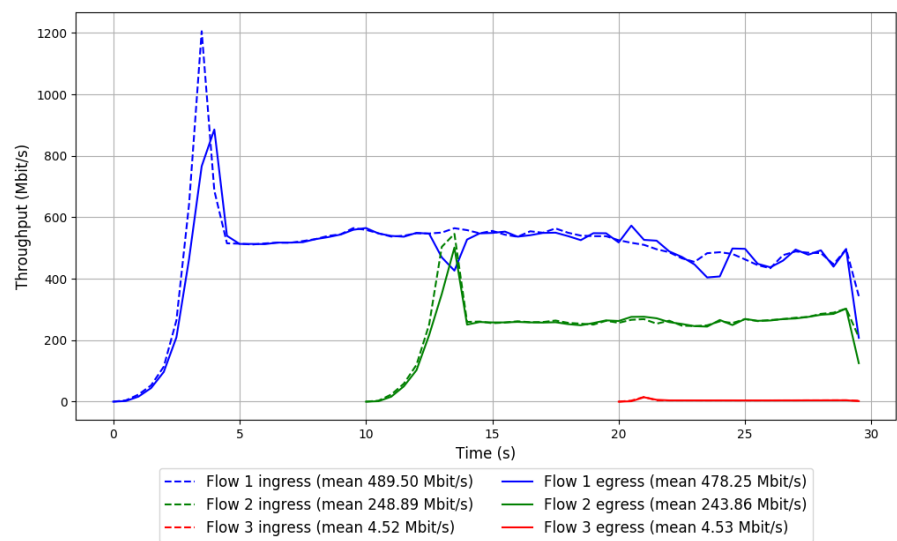
-- Flow 3:

Average throughput: 4.53 Mbit/s

95th percentile per-packet one-way delay: 164.668 ms

Loss rate: 2.65%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-17 07:09:52

End at: 2017-11-17 07:10:22

Below is generated by plot.py at 2017-11-17 11:03:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 611.98 Mbit/s

95th percentile per-packet one-way delay: 268.429 ms

Loss rate: 3.33%

-- Flow 1:

Average throughput: 442.59 Mbit/s

95th percentile per-packet one-way delay: 284.599 ms

Loss rate: 3.29%

-- Flow 2:

Average throughput: 239.71 Mbit/s

95th percentile per-packet one-way delay: 225.213 ms

Loss rate: 3.48%

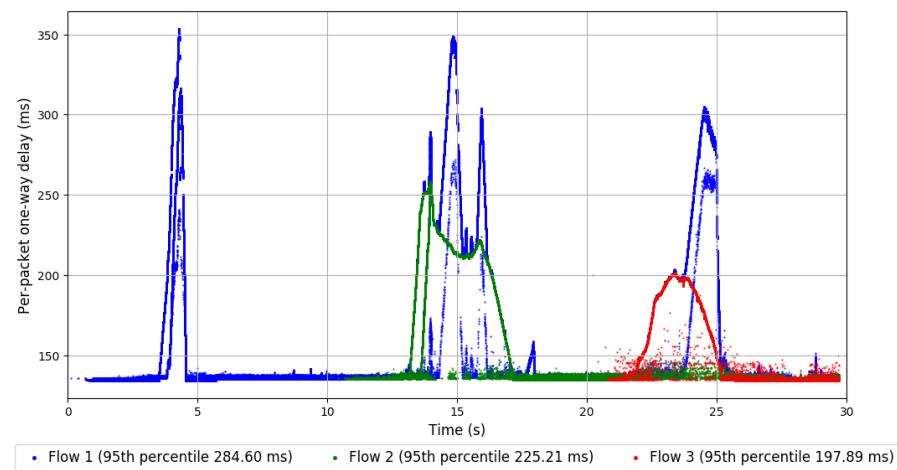
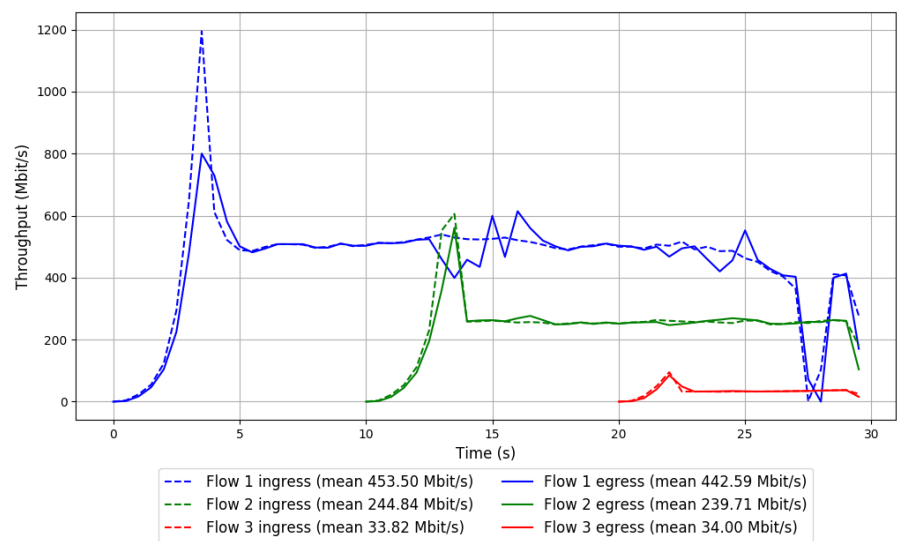
-- Flow 3:

Average throughput: 34.00 Mbit/s

95th percentile per-packet one-way delay: 197.889 ms

Loss rate: 2.88%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-17 07:23:56

End at: 2017-11-17 07:24:26

Below is generated by plot.py at 2017-11-17 11:03:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 636.01 Mbit/s

95th percentile per-packet one-way delay: 231.999 ms

Loss rate: 3.30%

-- Flow 1:

Average throughput: 465.82 Mbit/s

95th percentile per-packet one-way delay: 232.236 ms

Loss rate: 3.13%

-- Flow 2:

Average throughput: 226.59 Mbit/s

95th percentile per-packet one-way delay: 231.355 ms

Loss rate: 3.54%

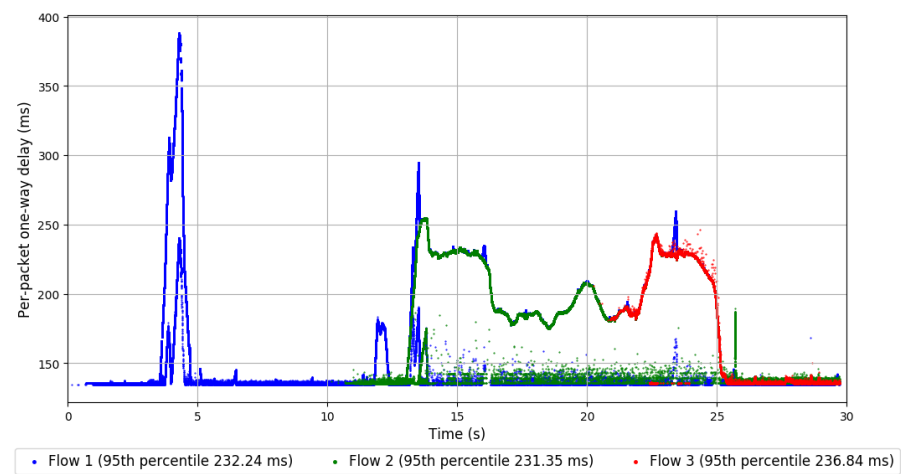
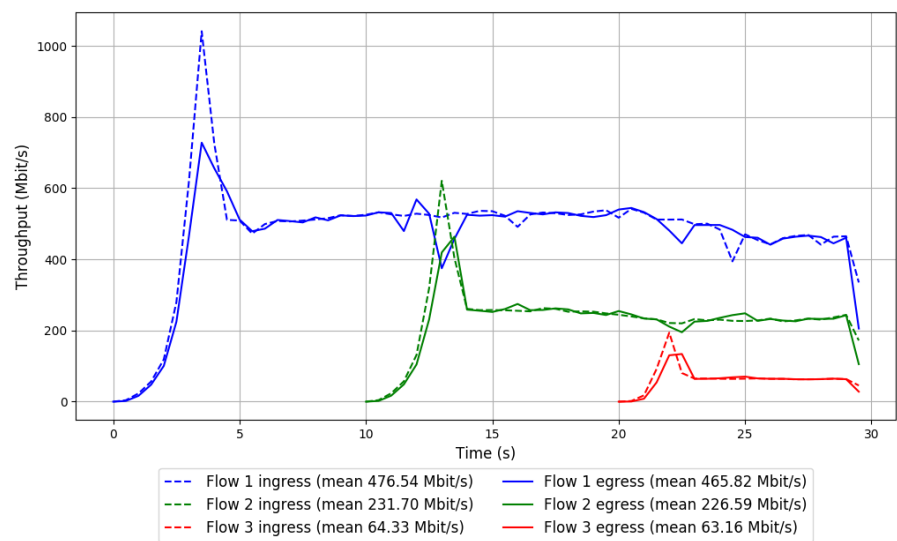
-- Flow 3:

Average throughput: 63.16 Mbit/s

95th percentile per-packet one-way delay: 236.837 ms

Loss rate: 5.23%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-17 07:37:53

End at: 2017-11-17 07:38:23

Below is generated by plot.py at 2017-11-17 11:03:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 502.90 Mbit/s

95th percentile per-packet one-way delay: 286.754 ms

Loss rate: 3.66%

-- Flow 1:

Average throughput: 367.34 Mbit/s

95th percentile per-packet one-way delay: 297.295 ms

Loss rate: 3.71%

-- Flow 2:

Average throughput: 145.29 Mbit/s

95th percentile per-packet one-way delay: 222.628 ms

Loss rate: 2.91%

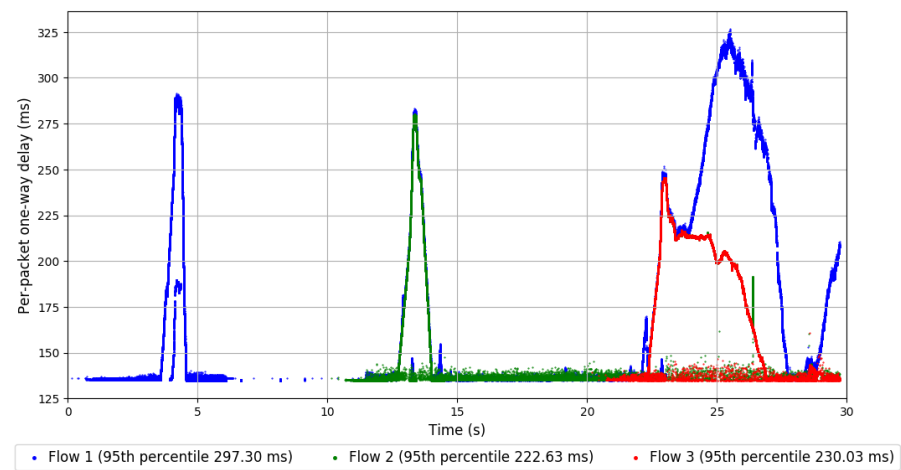
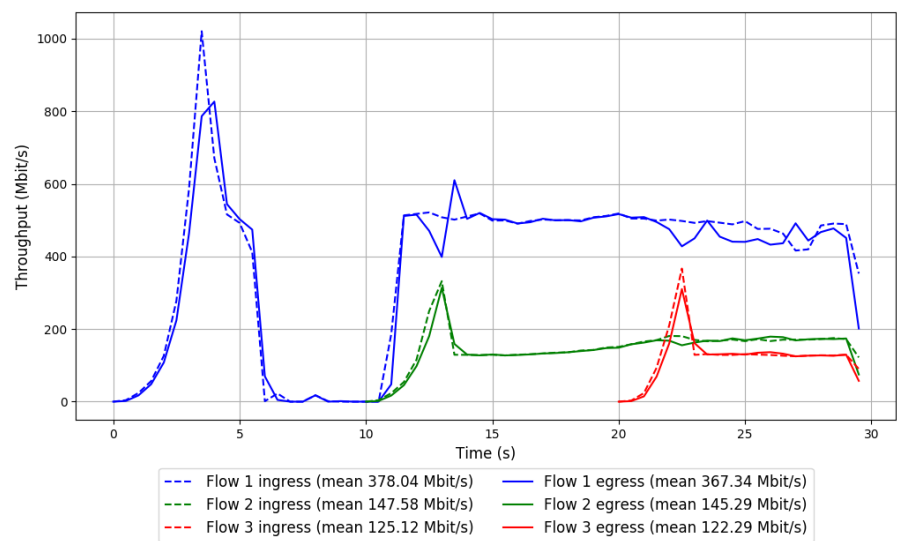
-- Flow 3:

Average throughput: 122.29 Mbit/s

95th percentile per-packet one-way delay: 230.029 ms

Loss rate: 4.99%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-17 07:51:30

End at: 2017-11-17 07:52:00

Below is generated by plot.py at 2017-11-17 11:03:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 493.65 Mbit/s

95th percentile per-packet one-way delay: 270.472 ms

Loss rate: 2.56%

-- Flow 1:

Average throughput: 321.04 Mbit/s

95th percentile per-packet one-way delay: 270.205 ms

Loss rate: 2.63%

-- Flow 2:

Average throughput: 245.28 Mbit/s

95th percentile per-packet one-way delay: 270.482 ms

Loss rate: 2.40%

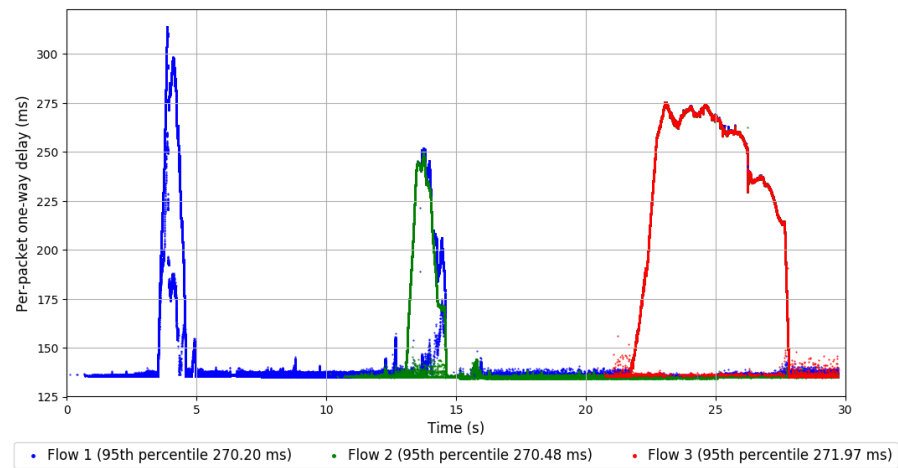
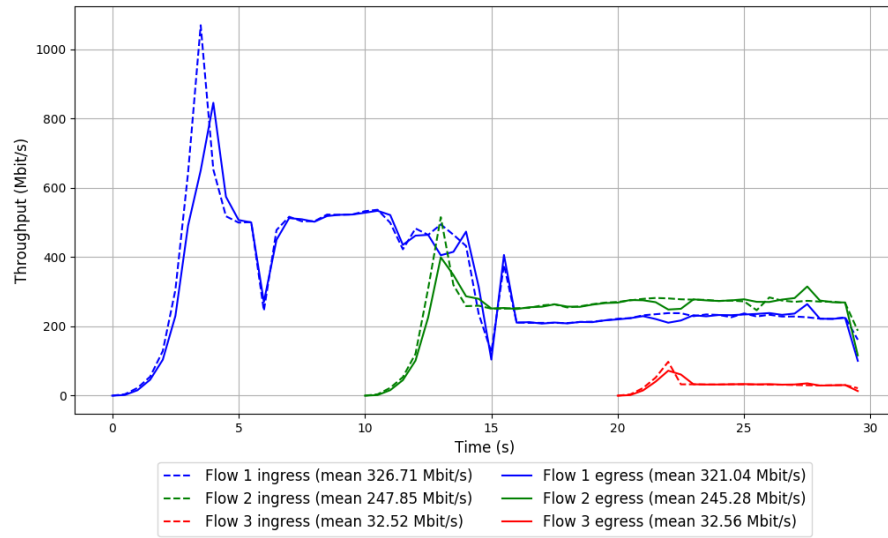
-- Flow 3:

Average throughput: 32.56 Mbit/s

95th percentile per-packet one-way delay: 271.968 ms

Loss rate: 2.63%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-11-17 08:05:27

End at: 2017-11-17 08:05:57

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 647.99 Mbit/s

95th percentile per-packet one-way delay: 221.882 ms

Loss rate: 2.93%

-- Flow 1:

Average throughput: 559.24 Mbit/s

95th percentile per-packet one-way delay: 223.649 ms

Loss rate: 3.04%

-- Flow 2:

Average throughput: 129.78 Mbit/s

95th percentile per-packet one-way delay: 200.506 ms

Loss rate: 2.21%

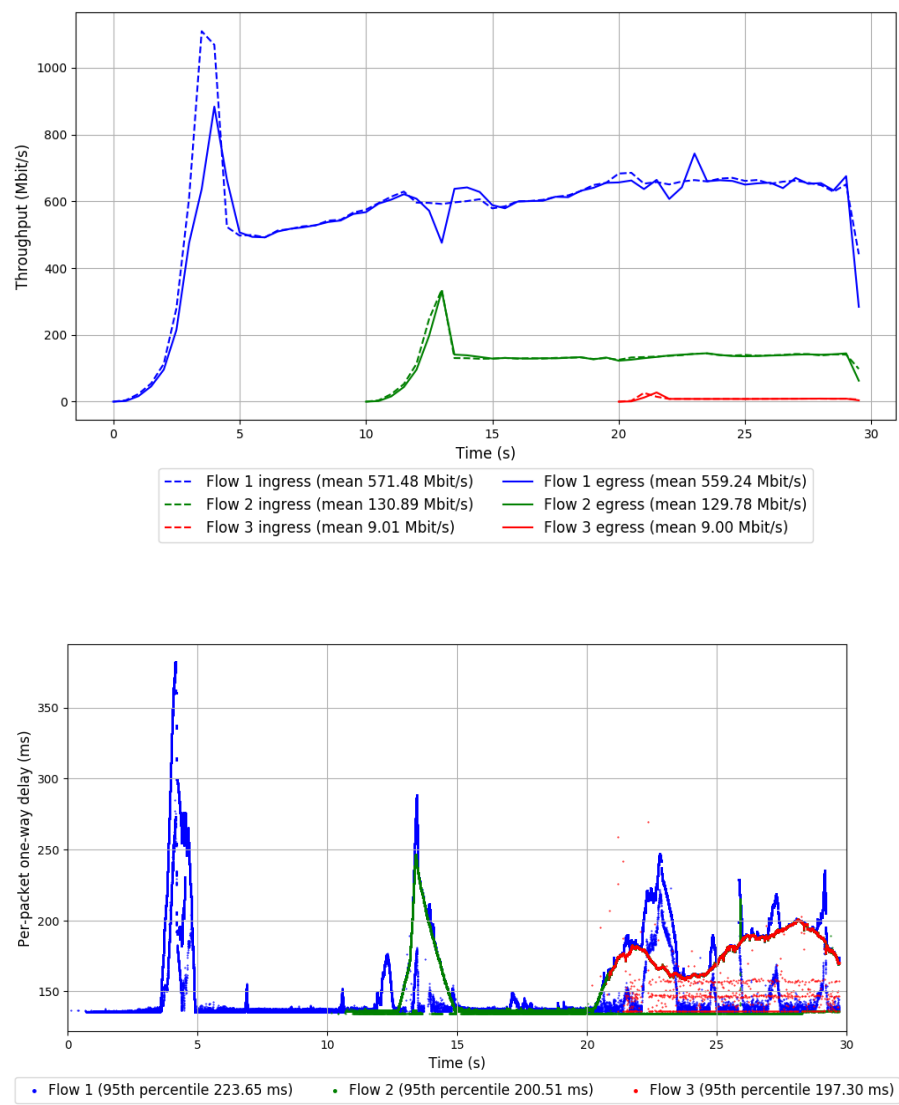
-- Flow 3:

Average throughput: 9.00 Mbit/s

95th percentile per-packet one-way delay: 197.300 ms

Loss rate: 3.05%

Run 9: Report of PCC — Data Link

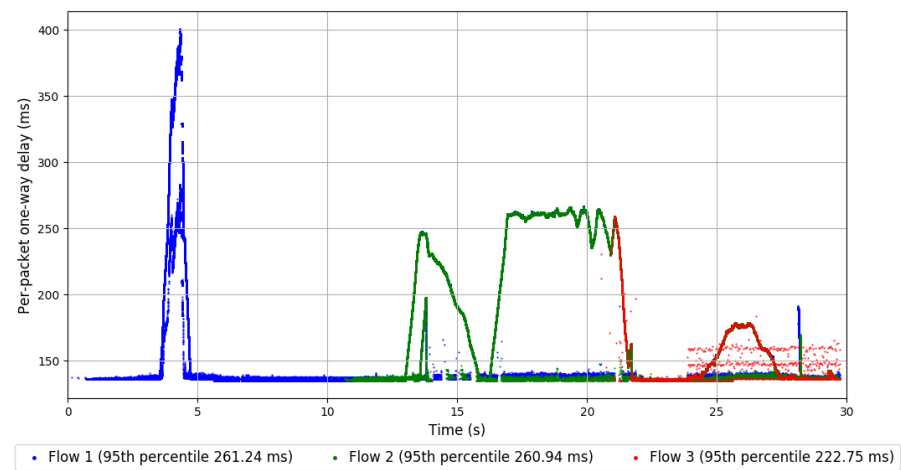
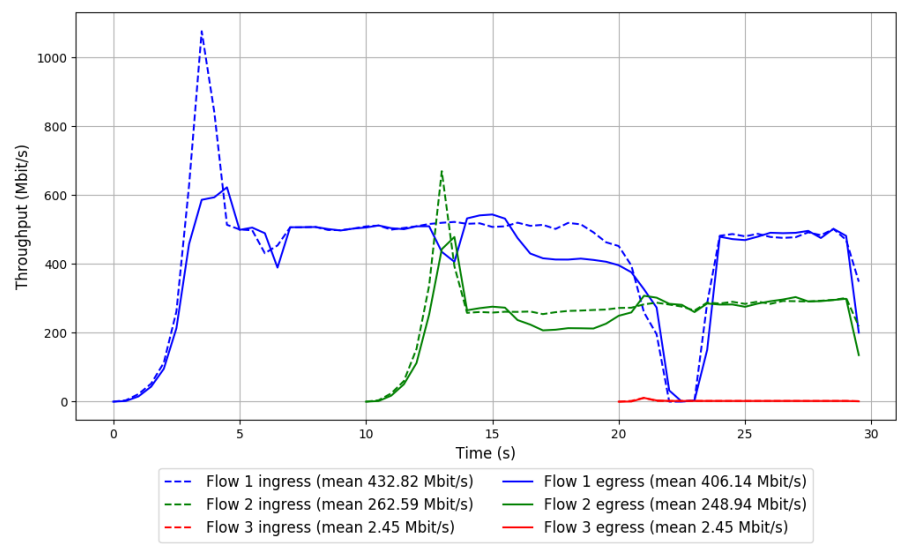


```
Run 10: Statistics of PCC

Start at: 2017-11-17 08:19:22
End at: 2017-11-17 08:19:52

# Below is generated by plot.py at 2017-11-17 11:13:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 571.59 Mbit/s
95th percentile per-packet one-way delay: 261.134 ms
Loss rate: 6.87%
-- Flow 1:
Average throughput: 406.14 Mbit/s
95th percentile per-packet one-way delay: 261.238 ms
Loss rate: 7.03%
-- Flow 2:
Average throughput: 248.94 Mbit/s
95th percentile per-packet one-way delay: 260.935 ms
Loss rate: 6.51%
-- Flow 3:
Average throughput: 2.45 Mbit/s
95th percentile per-packet one-way delay: 222.745 ms
Loss rate: 2.54%
```

Run 10: Report of PCC — Data Link

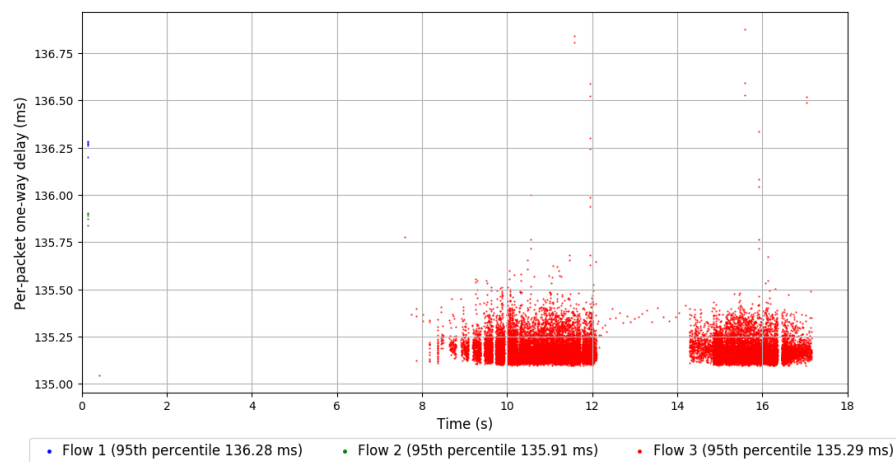
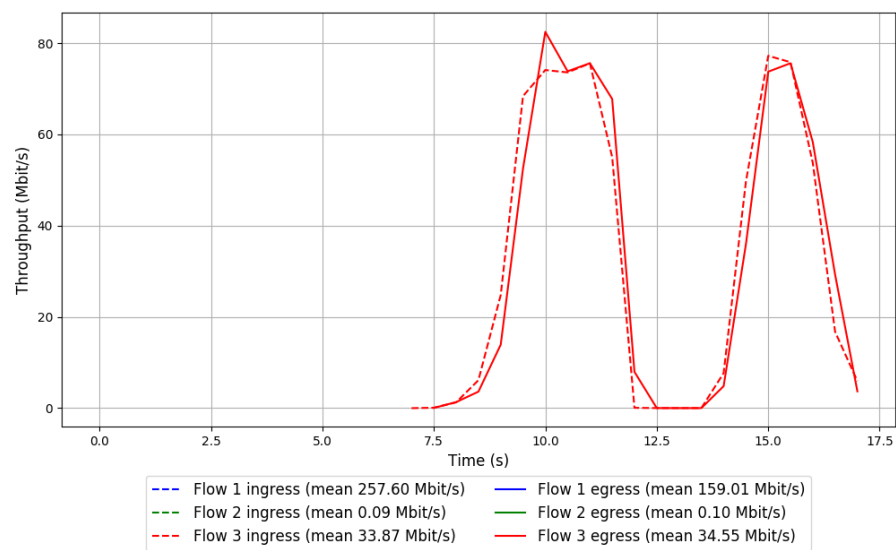


Run 1: Statistics of QUIC Cubic

Start at: 2017-11-17 06:14:04

End at: 2017-11-17 06:14:34

Run 1: Report of QUIC Cubic — Data Link

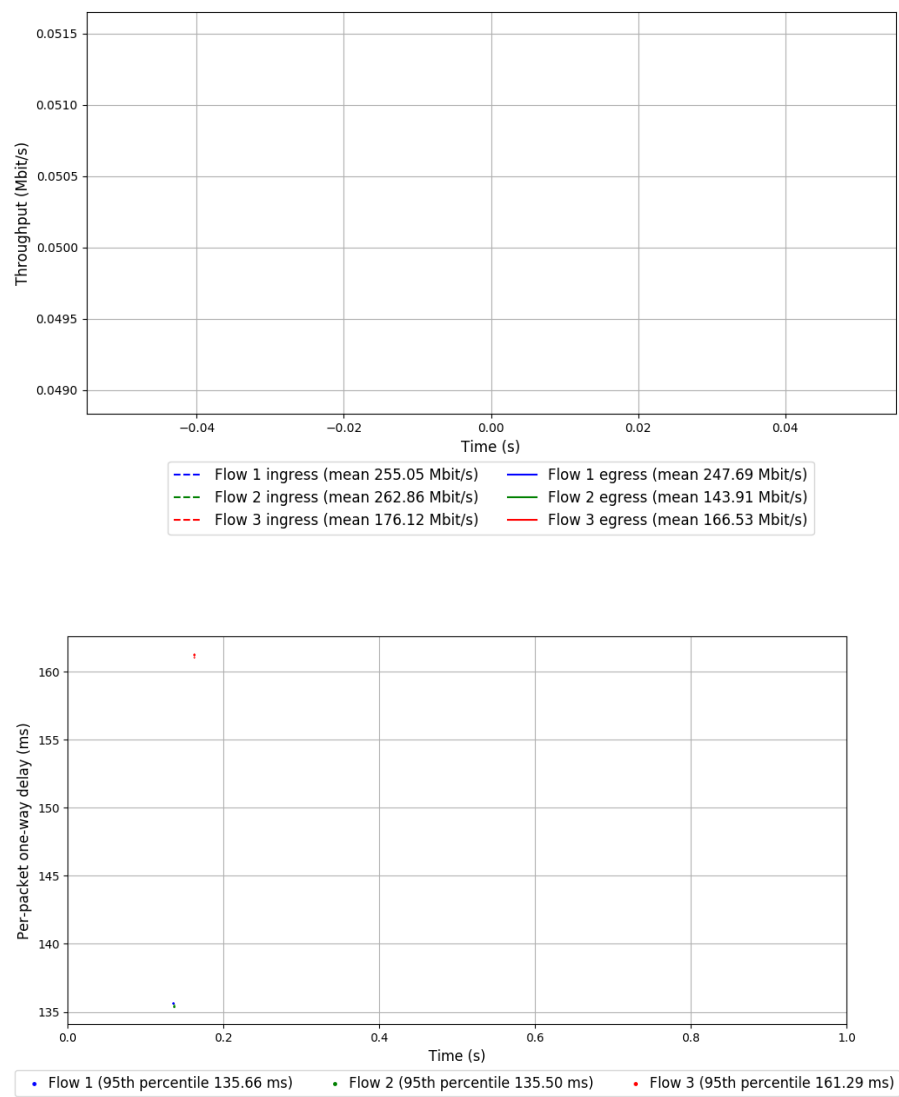


Run 2: Statistics of QUIC Cubic

Start at: 2017-11-17 06:27:31

End at: 2017-11-17 06:28:01

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-17 06:40:56

End at: 2017-11-17 06:41:26

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.50 Mbit/s

95th percentile per-packet one-way delay: 162.961 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 58.07 Mbit/s

95th percentile per-packet one-way delay: 134.957 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.80 Mbit/s

95th percentile per-packet one-way delay: 135.075 ms

Loss rate: 0.15%

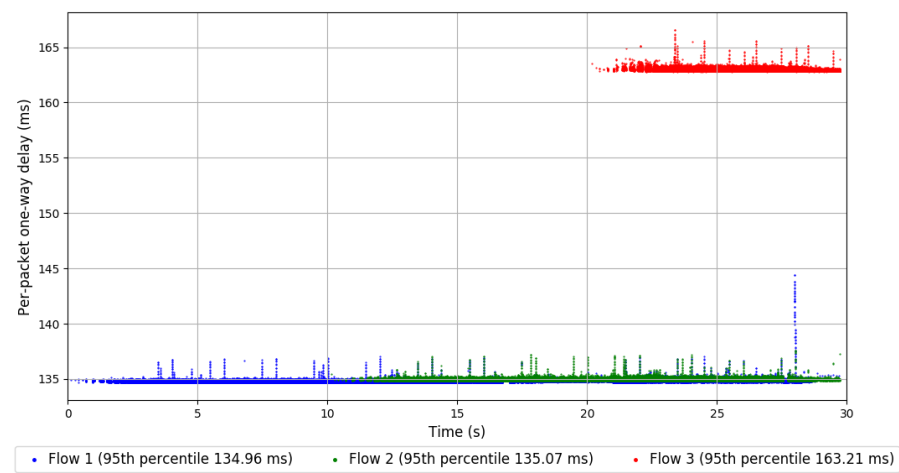
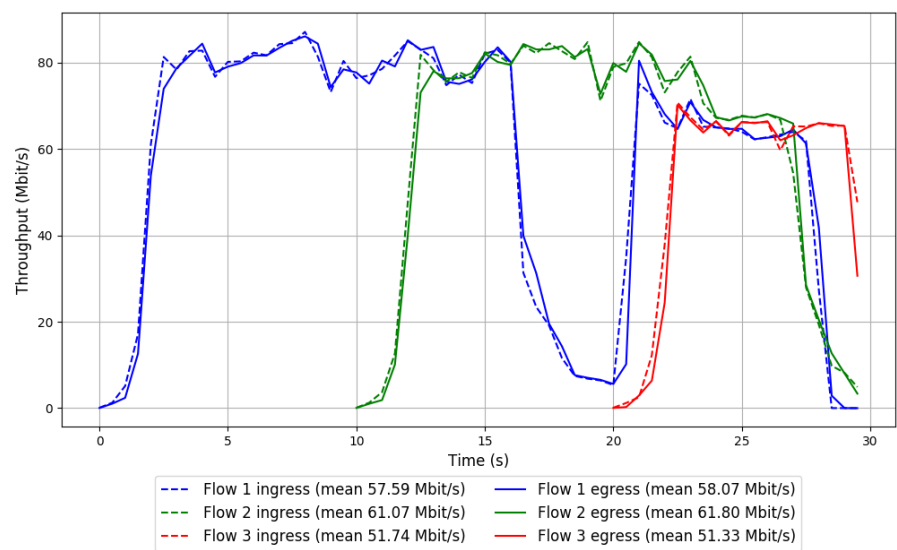
-- Flow 3:

Average throughput: 51.33 Mbit/s

95th percentile per-packet one-way delay: 163.205 ms

Loss rate: 3.76%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-17 06:54:19

End at: 2017-11-17 06:54:49

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 110.96 Mbit/s

95th percentile per-packet one-way delay: 164.929 ms

Loss rate: 1.51%

-- Flow 1:

Average throughput: 63.15 Mbit/s

95th percentile per-packet one-way delay: 164.969 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 57.35 Mbit/s

95th percentile per-packet one-way delay: 135.877 ms

Loss rate: 1.48%

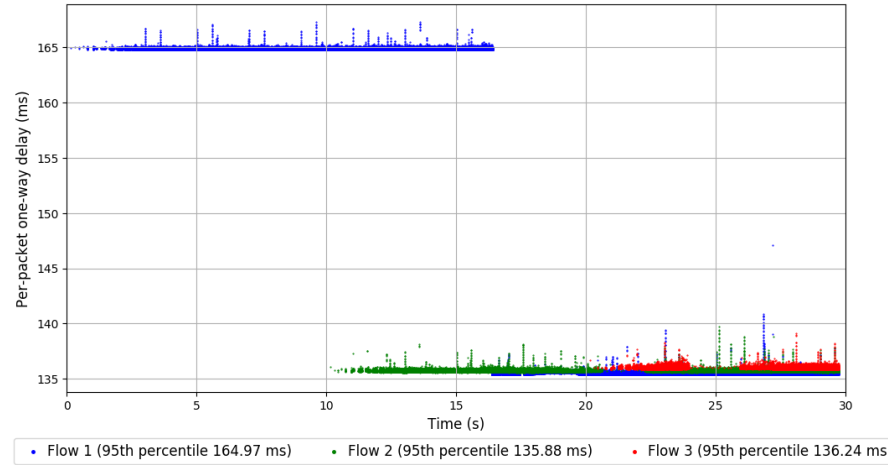
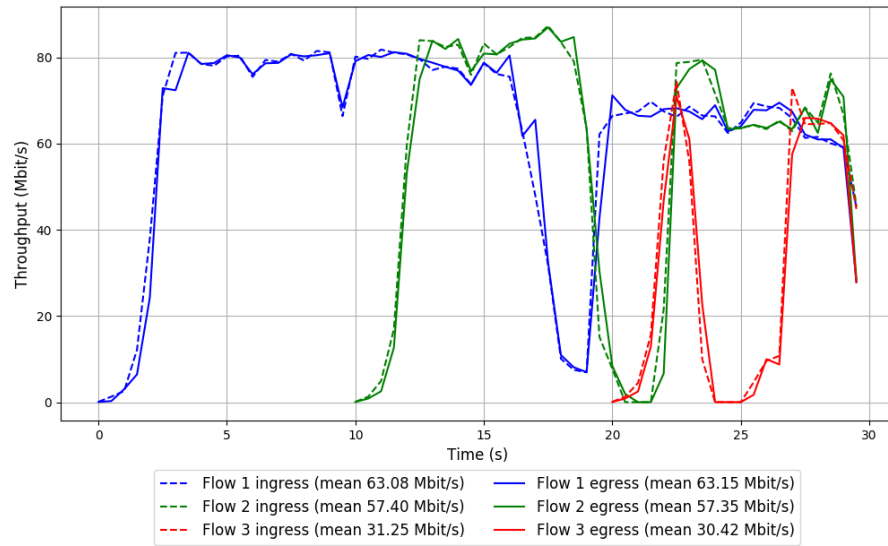
-- Flow 3:

Average throughput: 30.42 Mbit/s

95th percentile per-packet one-way delay: 136.244 ms

Loss rate: 5.39%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-17 07:08:09

End at: 2017-11-17 07:08:39

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.99 Mbit/s

95th percentile per-packet one-way delay: 135.839 ms

Loss rate: 2.21%

-- Flow 1:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 135.044 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 62.98 Mbit/s

95th percentile per-packet one-way delay: 135.870 ms

Loss rate: 1.51%

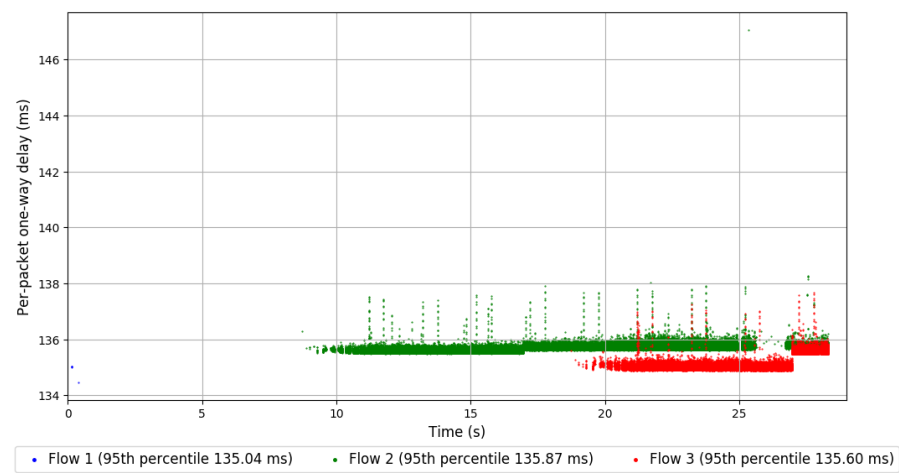
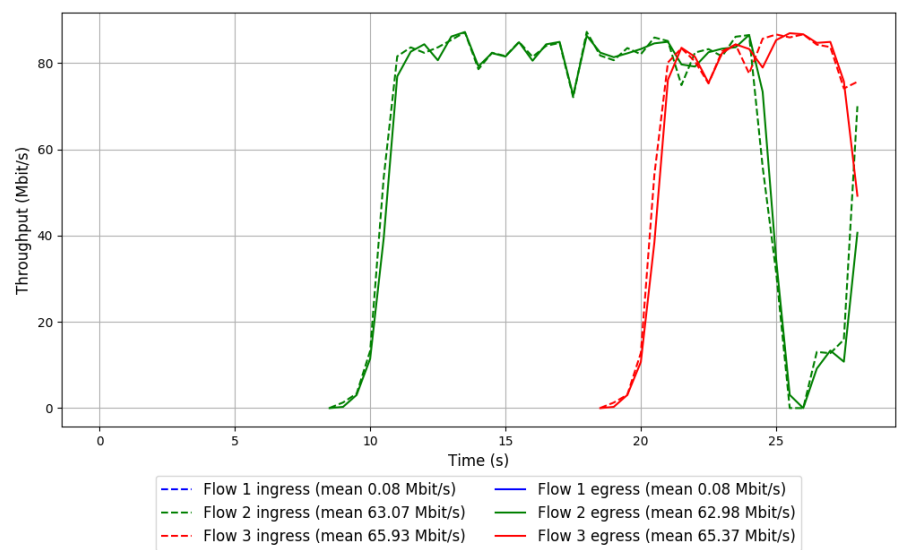
-- Flow 3:

Average throughput: 65.37 Mbit/s

95th percentile per-packet one-way delay: 135.599 ms

Loss rate: 3.58%

Run 5: Report of QUIC Cubic — Data Link

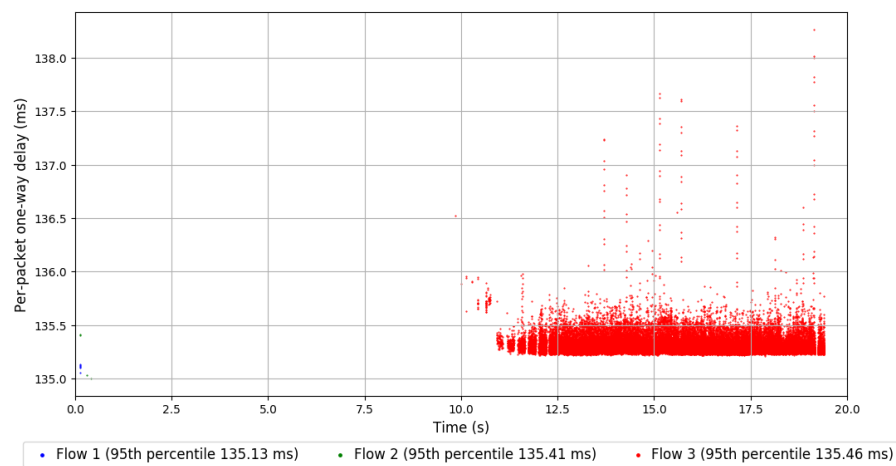
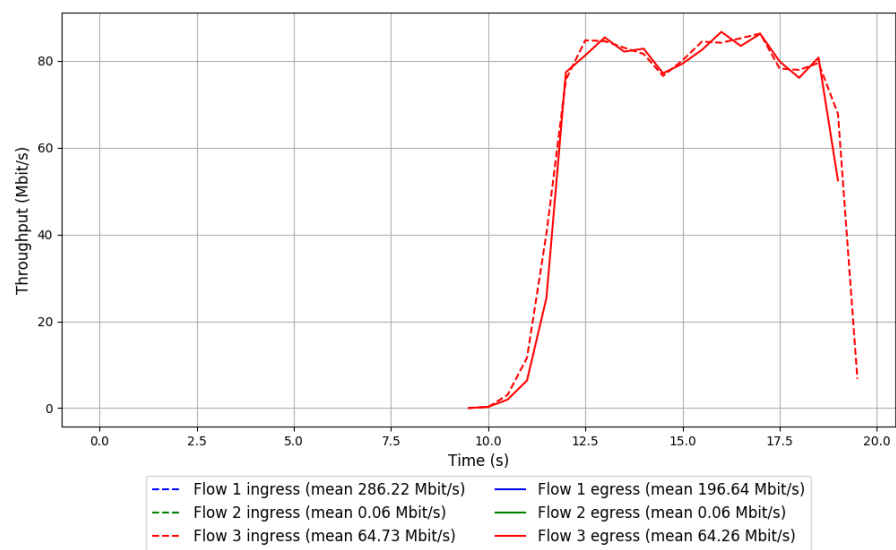


Run 6: Statistics of QUIC Cubic

Start at: 2017-11-17 07:22:16

End at: 2017-11-17 07:22:46

Run 6: Report of QUIC Cubic — Data Link

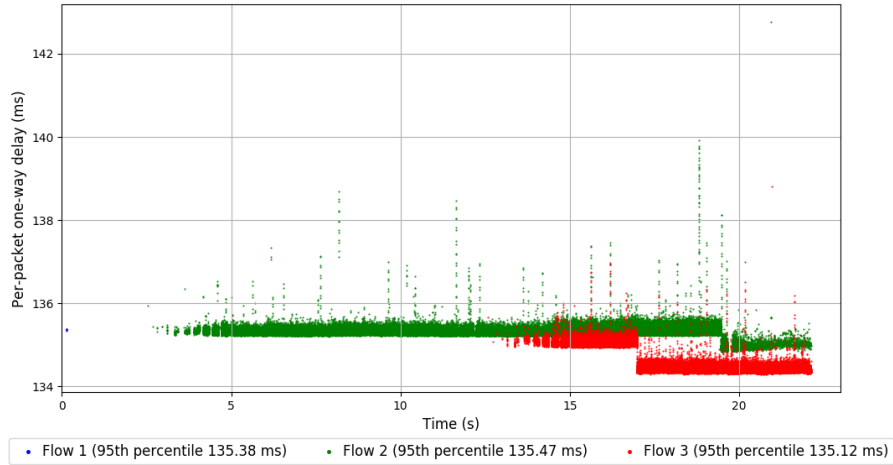
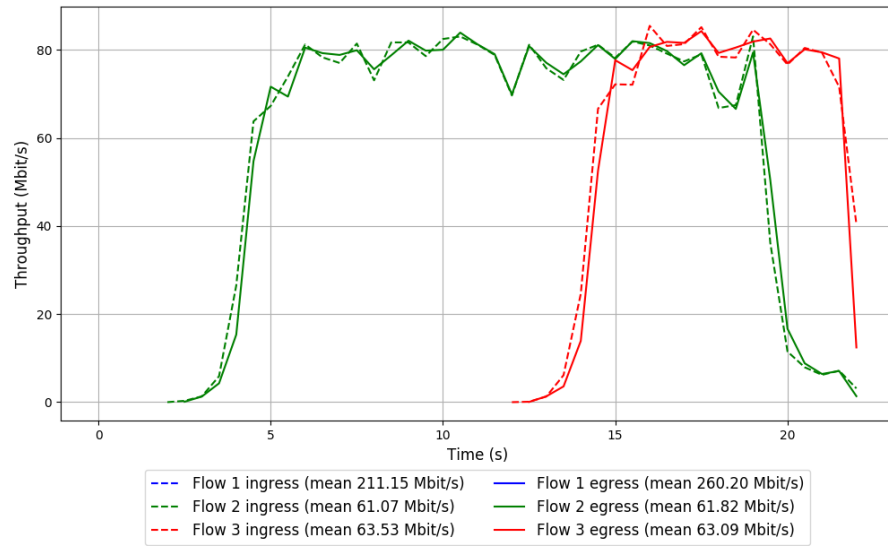


Run 7: Statistics of QUIC Cubic

Start at: 2017-11-17 07:36:11

End at: 2017-11-17 07:36:41

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-17 07:49:47

End at: 2017-11-17 07:50:17

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.31 Mbit/s

95th percentile per-packet one-way delay: 136.155 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 136.270 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.92 Mbit/s

95th percentile per-packet one-way delay: 136.184 ms

Loss rate: 0.13%

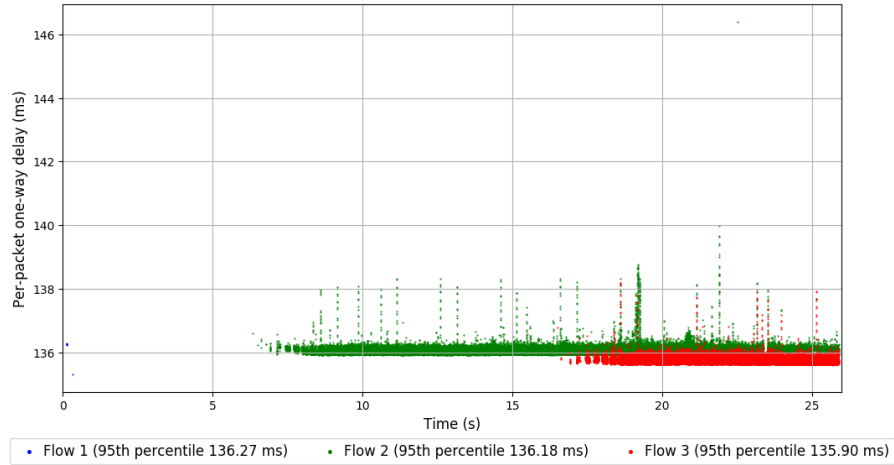
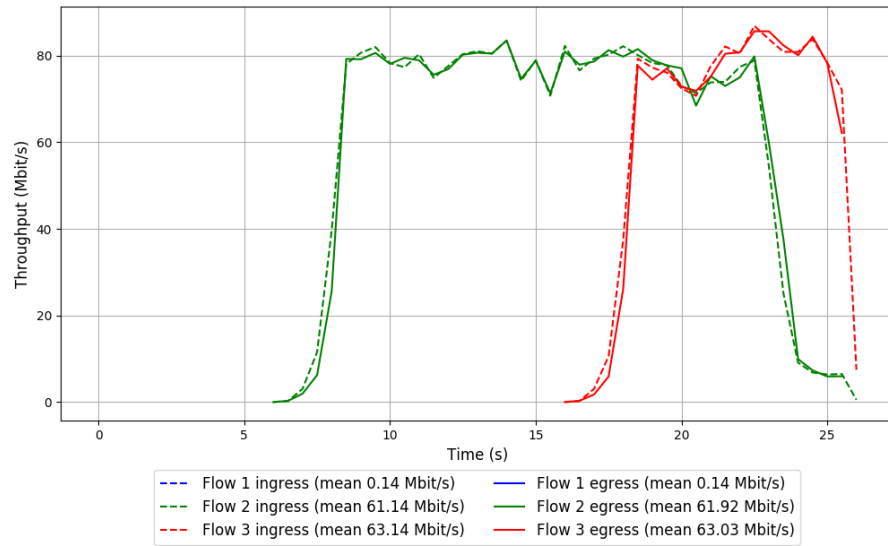
-- Flow 3:

Average throughput: 63.03 Mbit/s

95th percentile per-packet one-way delay: 135.904 ms

Loss rate: 3.12%

Run 8: Report of QUIC Cubic — Data Link

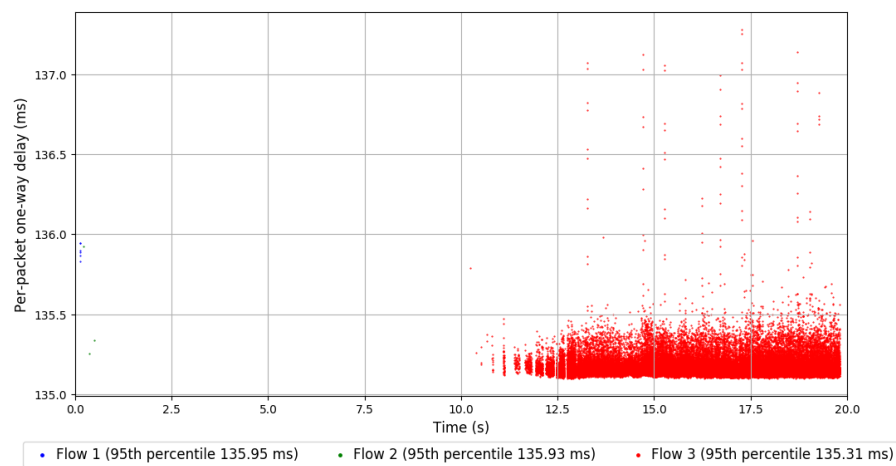
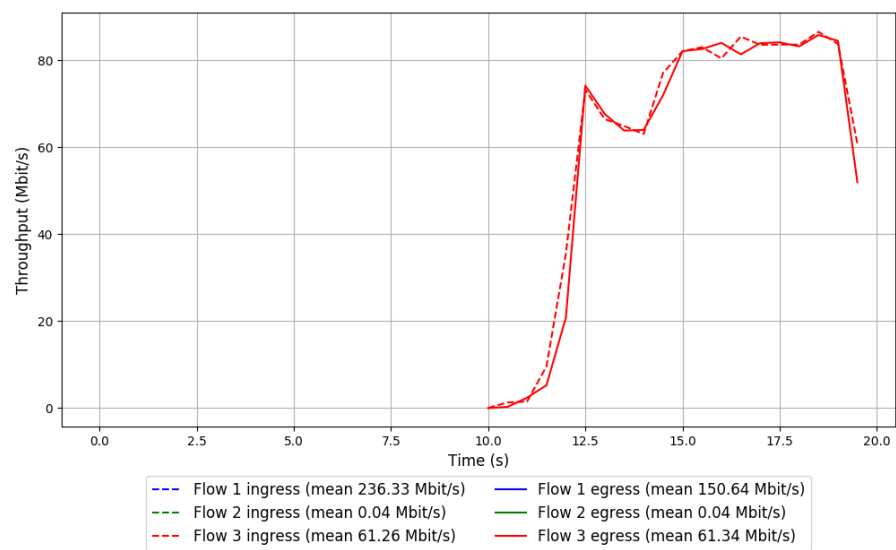


Run 9: Statistics of QUIC Cubic

Start at: 2017-11-17 08:03:47

End at: 2017-11-17 08:04:17

Run 9: Report of QUIC Cubic — Data Link

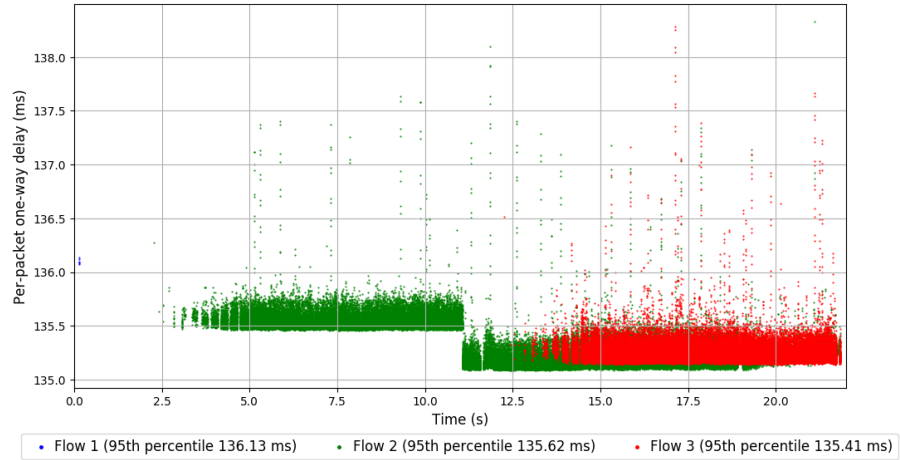
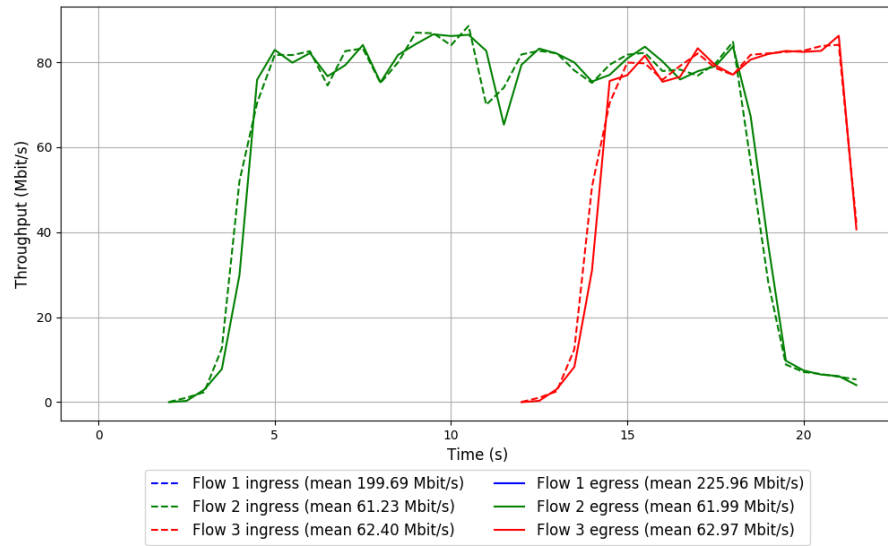


Run 10: Statistics of QUIC Cubic

Start at: 2017-11-17 08:17:39

End at: 2017-11-17 08:18:09

Run 10: Report of QUIC Cubic — Data Link

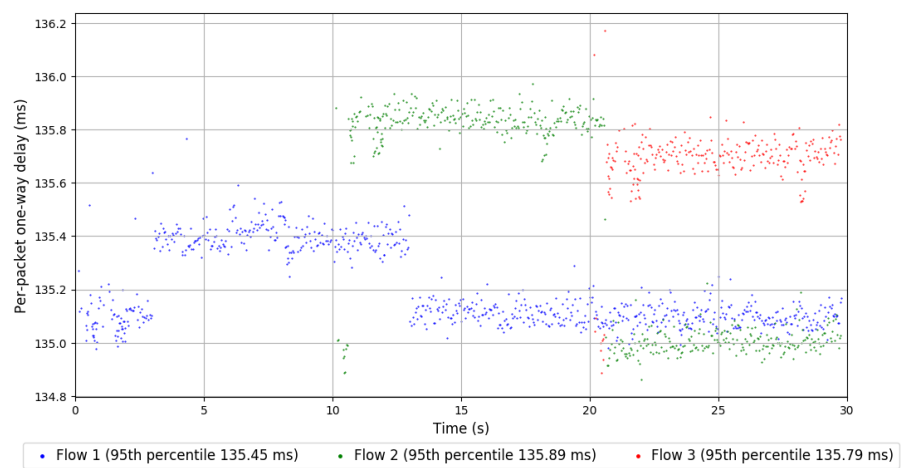
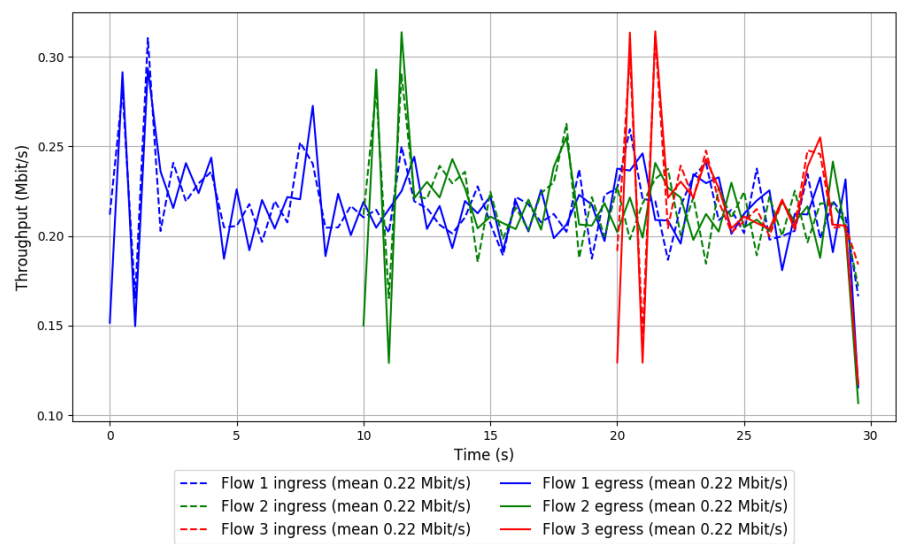


```
Run 1: Statistics of SCReAM

Start at: 2017-11-17 06:14:55
End at: 2017-11-17 06:15:25

# Below is generated by plot.py at 2017-11-17 11:13:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 135.861 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.446 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.893 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.790 ms
Loss rate: 2.63%
```

Run 1: Report of SReAM — Data Link

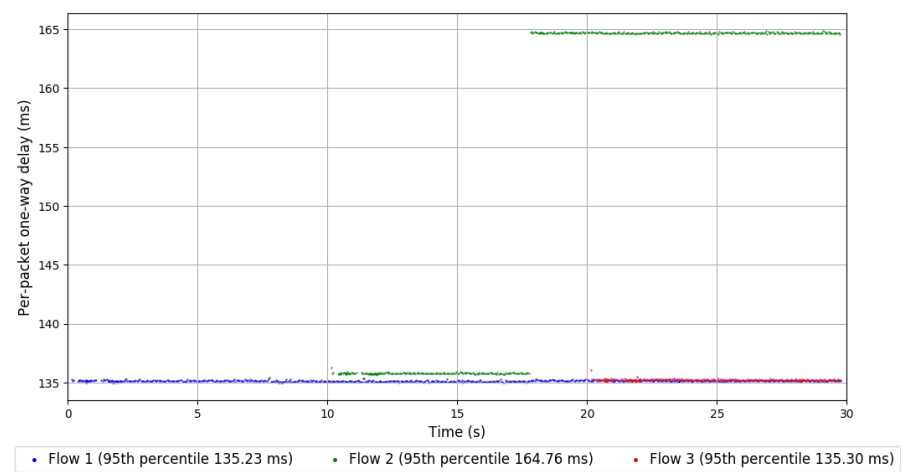
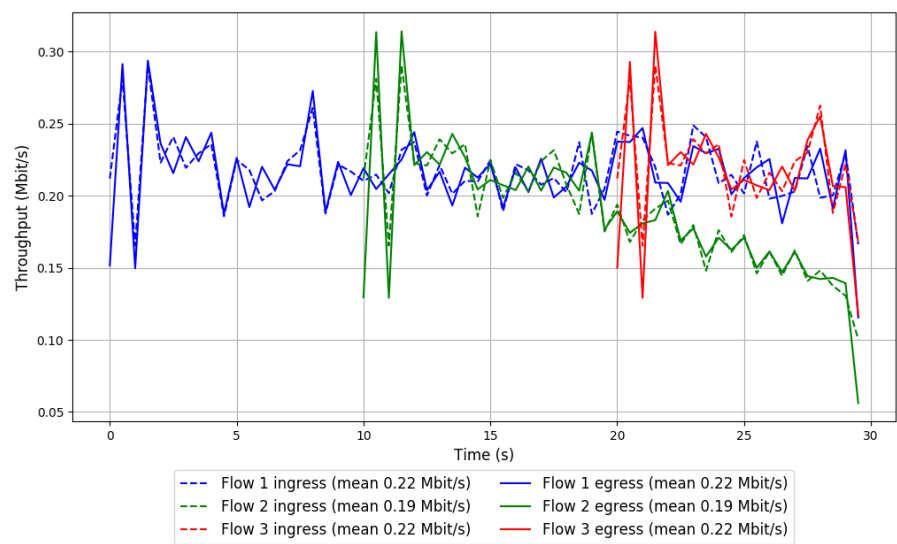


```
Run 2: Statistics of SCReAM

Start at: 2017-11-17 06:28:20
End at: 2017-11-17 06:28:50

# Below is generated by plot.py at 2017-11-17 11:13:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 164.713 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.233 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 164.756 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.296 ms
Loss rate: 2.64%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2017-11-17 06:41:54

End at: 2017-11-17 06:42:24

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 165.258 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 165.325 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.091 ms

Loss rate: 1.42%

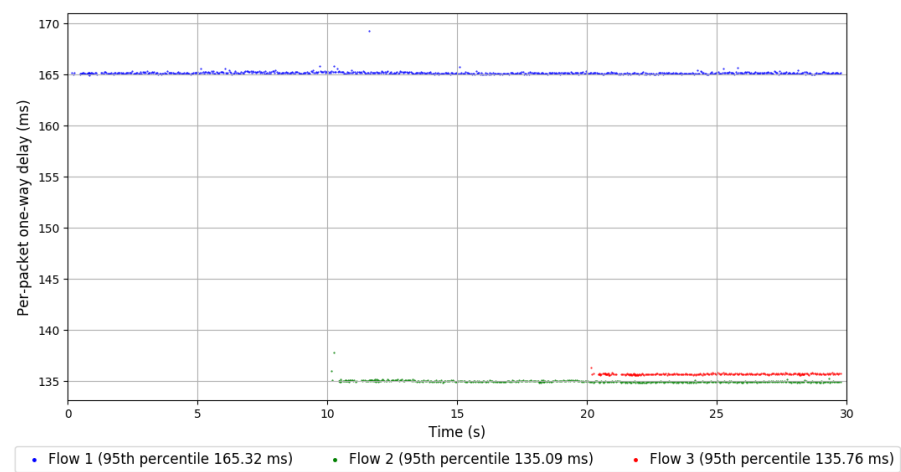
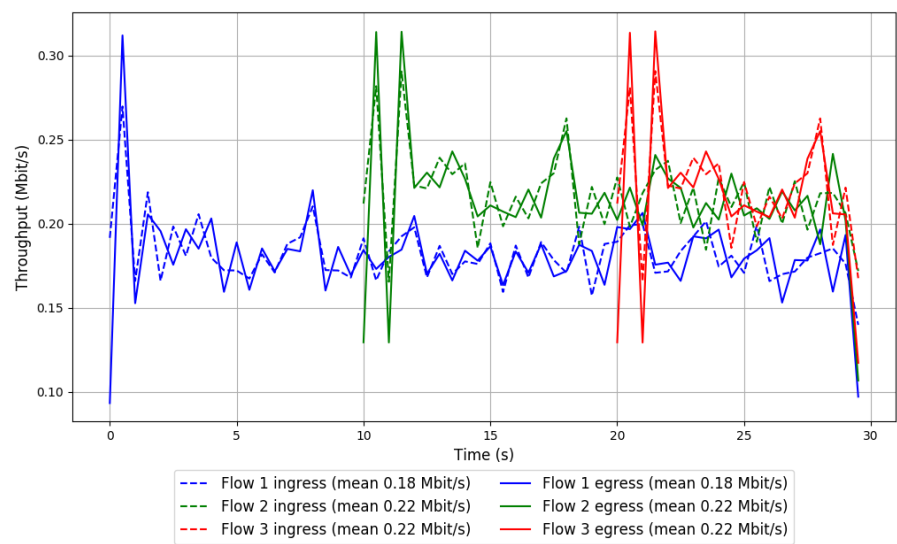
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.758 ms

Loss rate: 2.63%

Run 3: Report of SReAM — Data Link

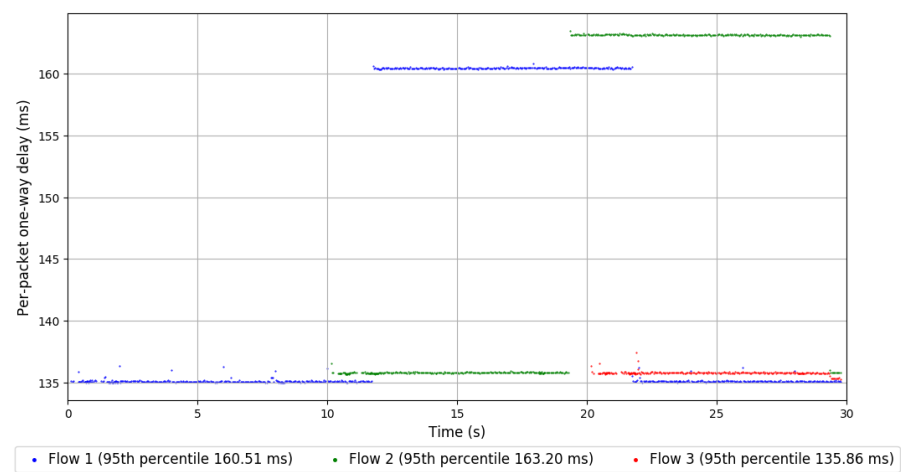
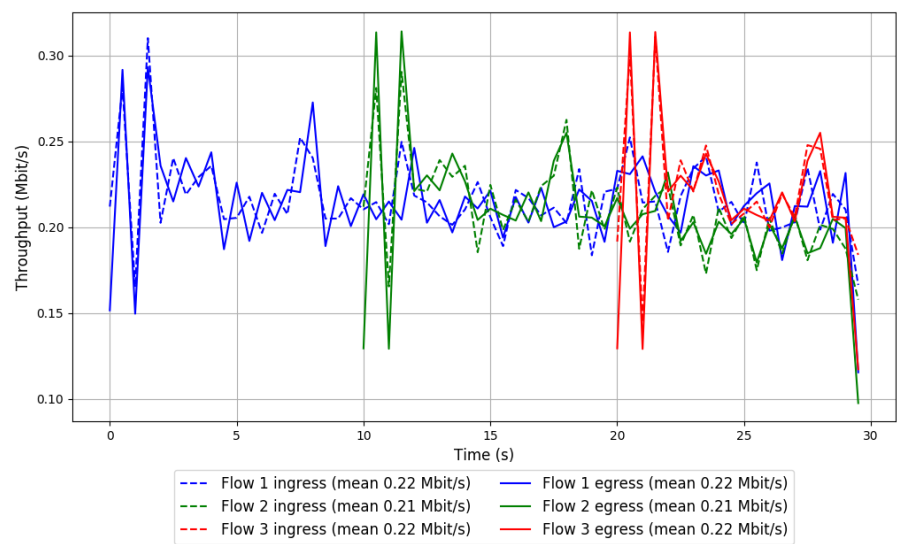


```
Run 4: Statistics of SCReAM

Start at: 2017-11-17 06:55:16
End at: 2017-11-17 06:55:46

# Below is generated by plot.py at 2017-11-17 11:13:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 163.172 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 160.510 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 163.200 ms
Loss rate: 1.35%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.858 ms
Loss rate: 2.63%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2017-11-17 07:09:03

End at: 2017-11-17 07:09:33

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.273 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.287 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.951 ms

Loss rate: 1.42%

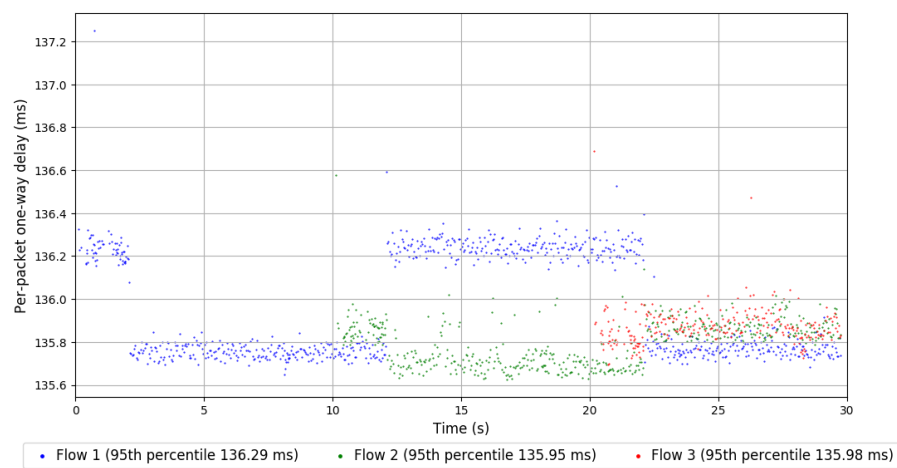
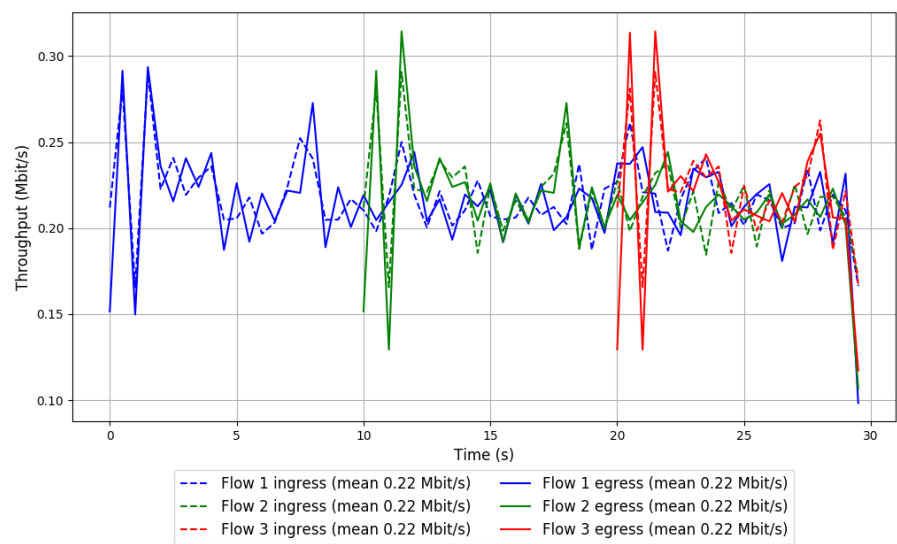
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.984 ms

Loss rate: 2.63%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2017-11-17 07:23:07

End at: 2017-11-17 07:23:37

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.327 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.878 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.740 ms

Loss rate: 1.43%

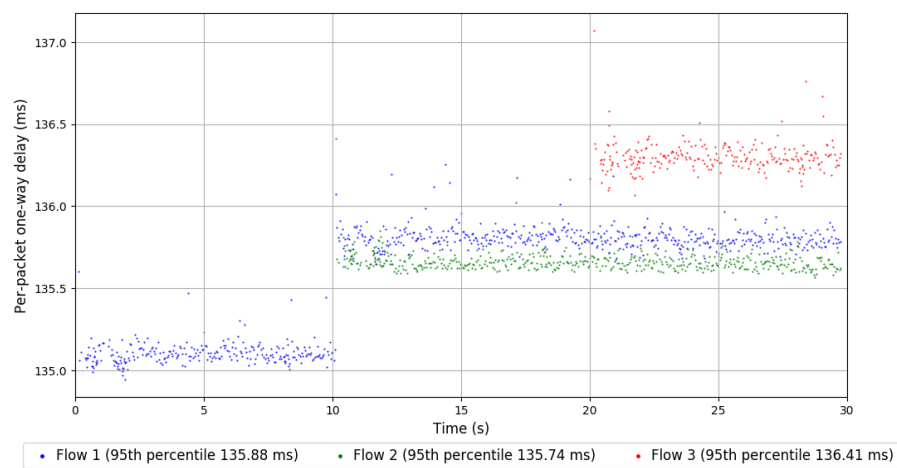
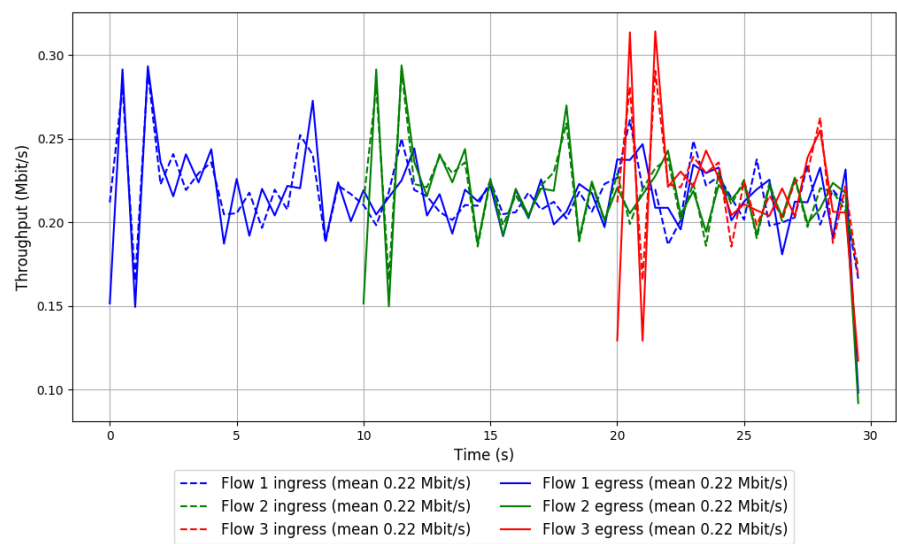
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.408 ms

Loss rate: 2.63%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2017-11-17 07:37:04

End at: 2017-11-17 07:37:34

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 135.858 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.874 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.411 ms

Loss rate: 1.42%

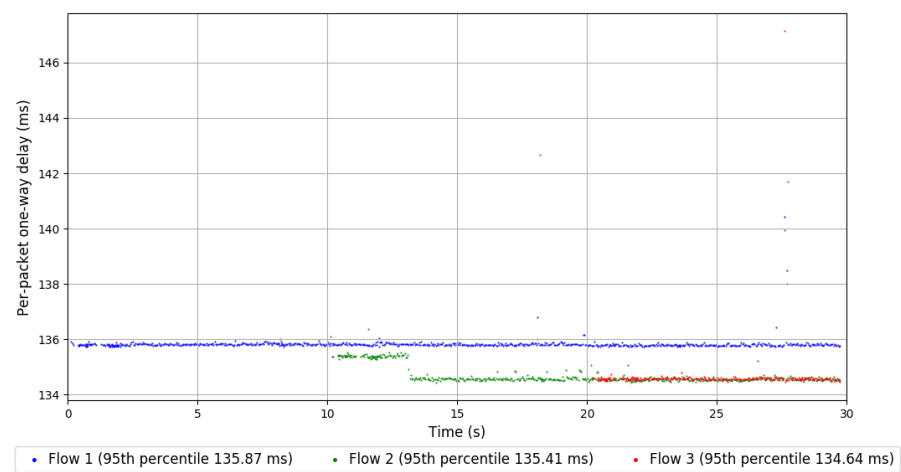
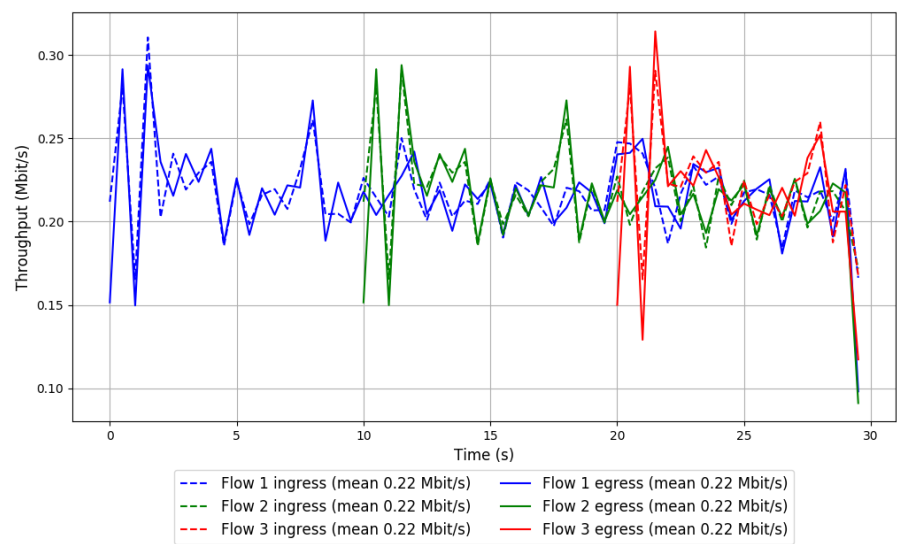
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 134.636 ms

Loss rate: 2.64%

Run 7: Report of SCRaM — Data Link



Run 8: Statistics of SReAM

Start at: 2017-11-17 07:50:41

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

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.250 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.272 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.935 ms

Loss rate: 1.42%

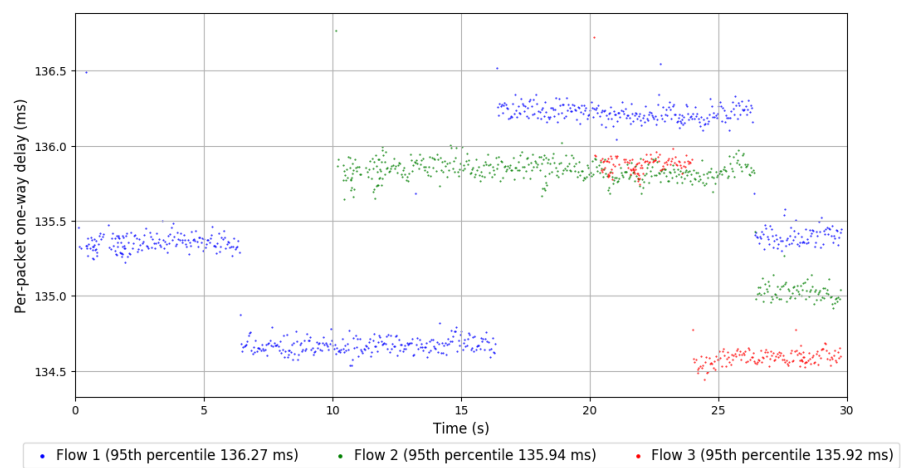
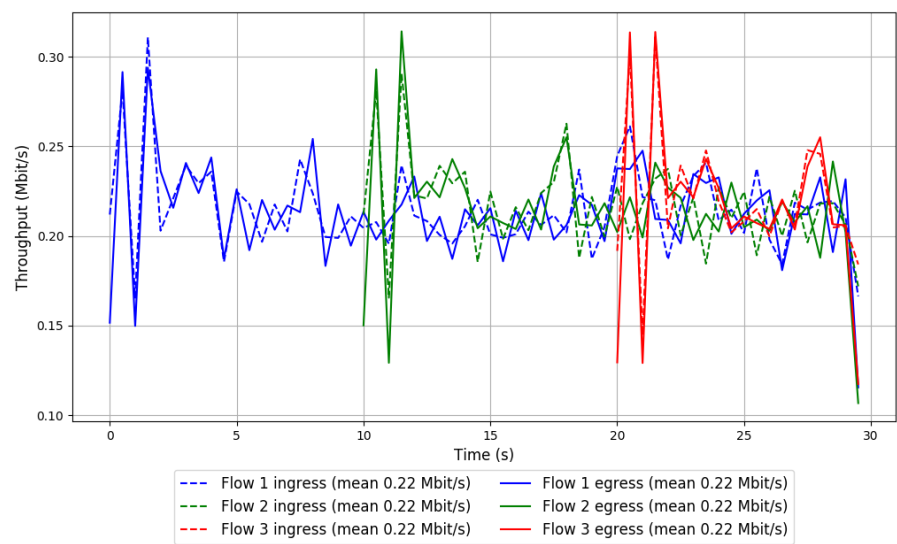
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.924 ms

Loss rate: 2.63%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-11-17 08:04:38

End at: 2017-11-17 08:05:08

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.045 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.297 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.942 ms

Loss rate: 1.42%

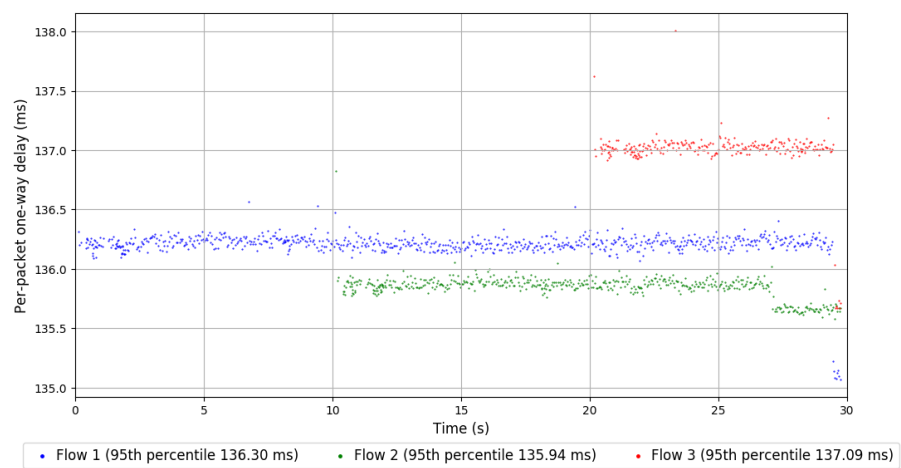
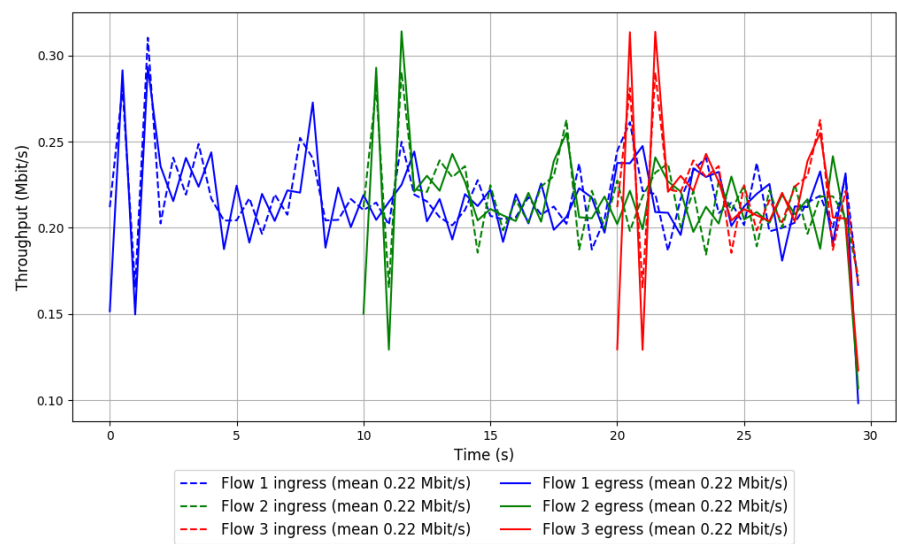
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.093 ms

Loss rate: 2.63%

Run 9: Report of SReAM — Data Link

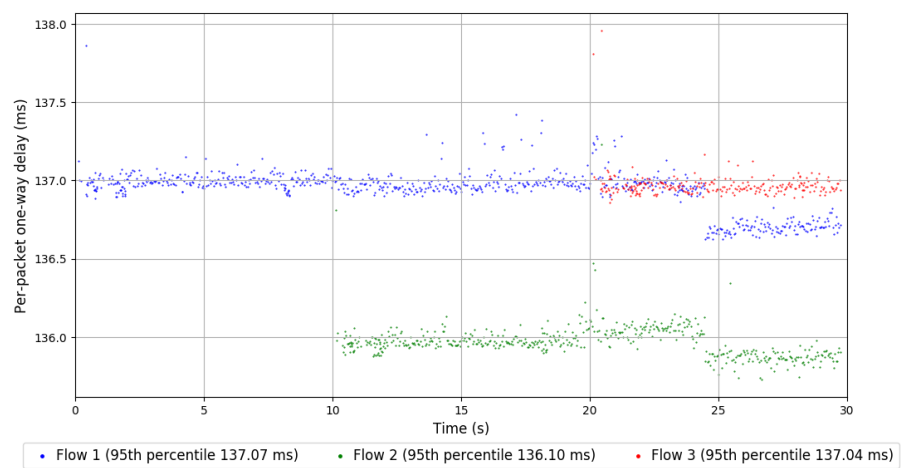
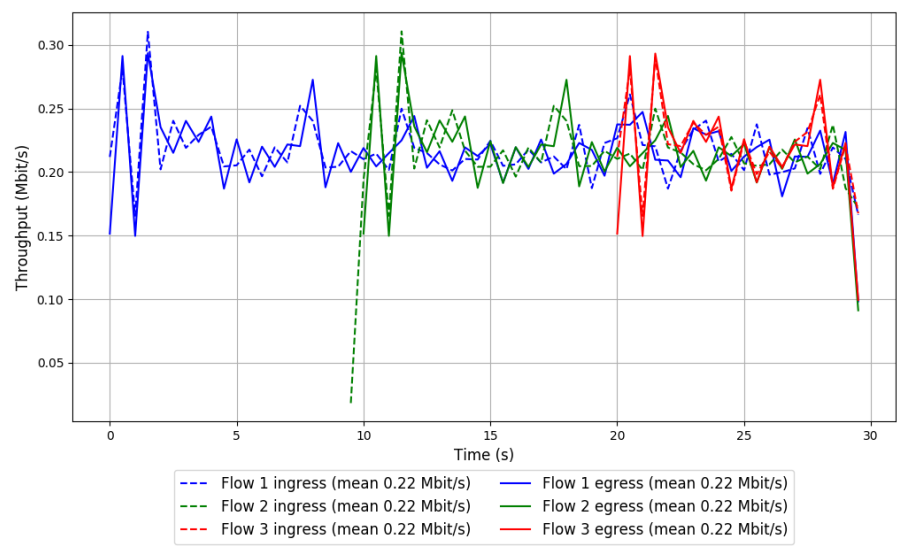


```
Run 10: Statistics of SCReAM

Start at: 2017-11-17 08:18:33
End at: 2017-11-17 08:19:03

# Below is generated by plot.py at 2017-11-17 11:13:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.048 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.075 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.097 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.036 ms
Loss rate: 2.63%
```

Run 10: Report of SReAM — Data Link

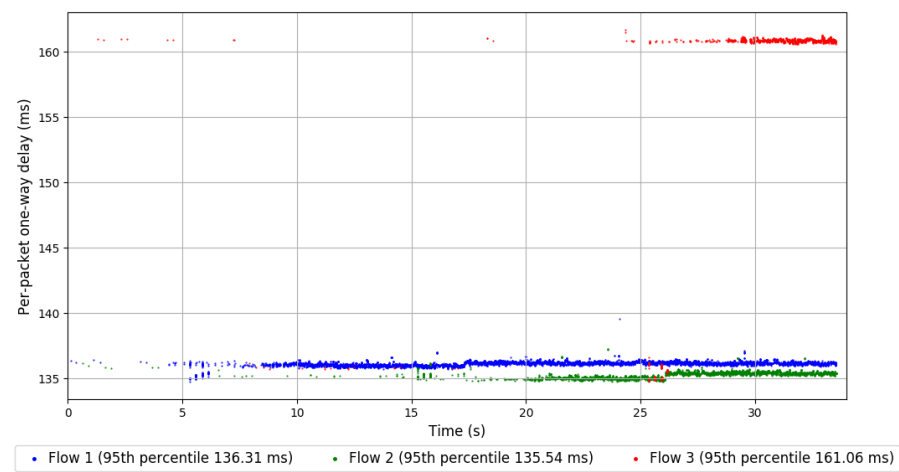
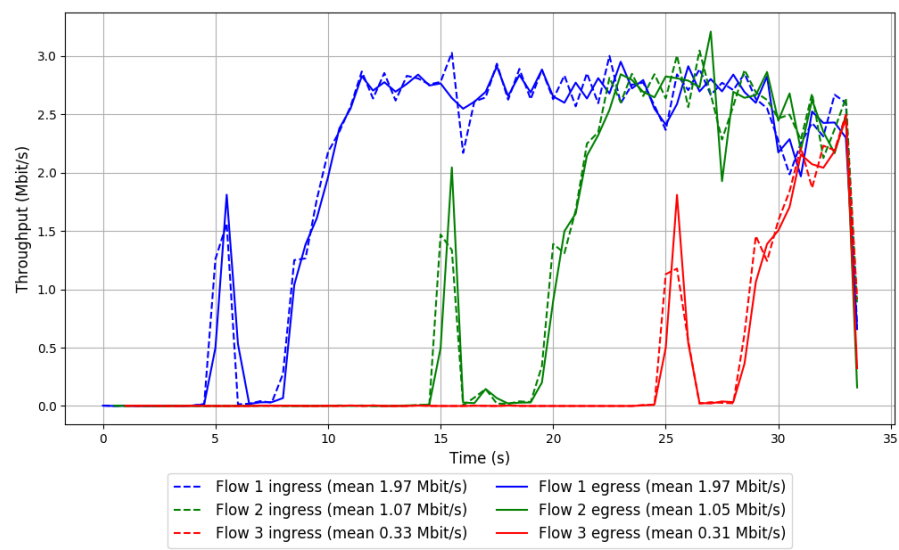


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-17 06:17:04
End at: 2017-11-17 06:17:34

# Below is generated by plot.py at 2017-11-17 11:13:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.31 Mbit/s
95th percentile per-packet one-way delay: 160.843 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 136.312 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 1.05 Mbit/s
95th percentile per-packet one-way delay: 135.539 ms
Loss rate: 2.44%
-- Flow 3:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 161.063 ms
Loss rate: 6.49%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-17 06:30:29

End at: 2017-11-17 06:30:59

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.54 Mbit/s

95th percentile per-packet one-way delay: 135.915 ms

Loss rate: 1.81%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 135.906 ms

Loss rate: 1.19%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 135.253 ms

Loss rate: 1.81%

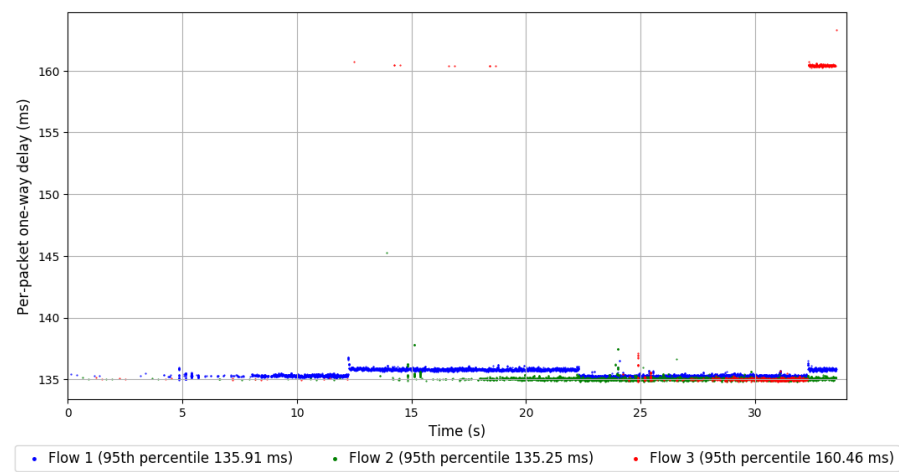
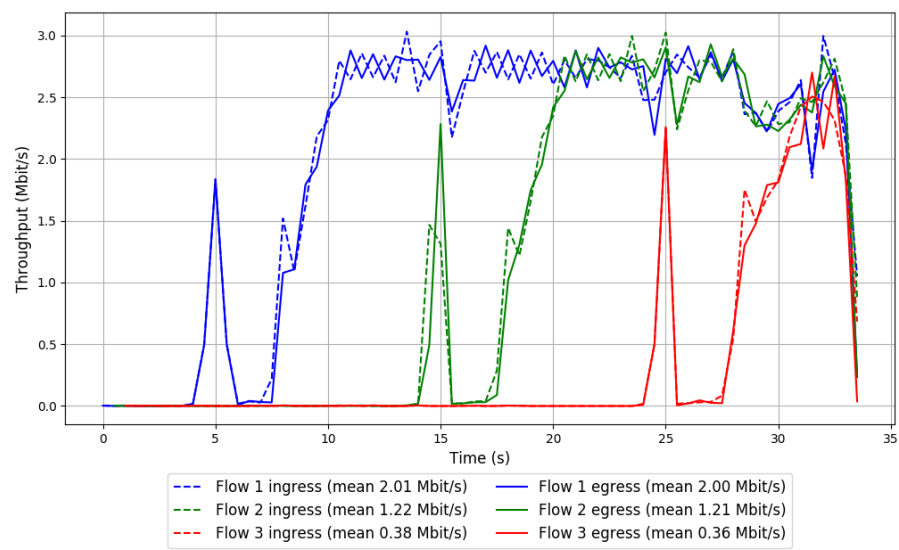
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 160.456 ms

Loss rate: 5.23%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-17 06:44:00

End at: 2017-11-17 06:44:30

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.43 Mbit/s

95th percentile per-packet one-way delay: 165.047 ms

Loss rate: 1.83%

-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 163.233 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 135.520 ms

Loss rate: 1.83%

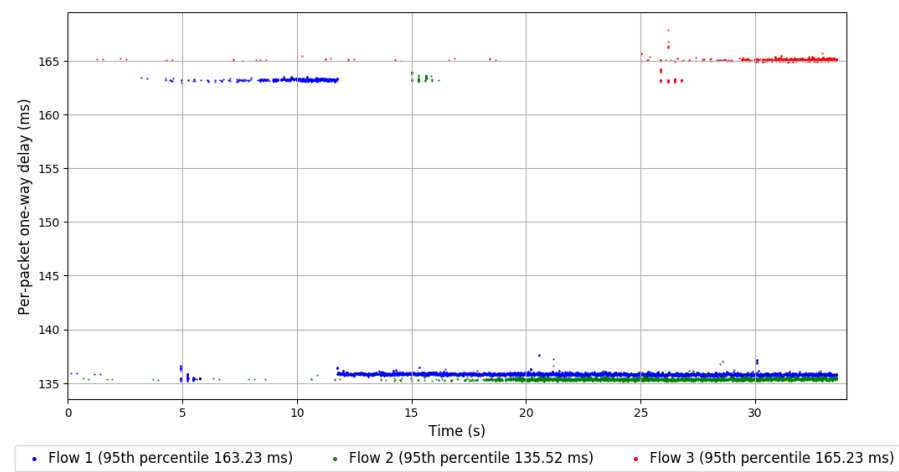
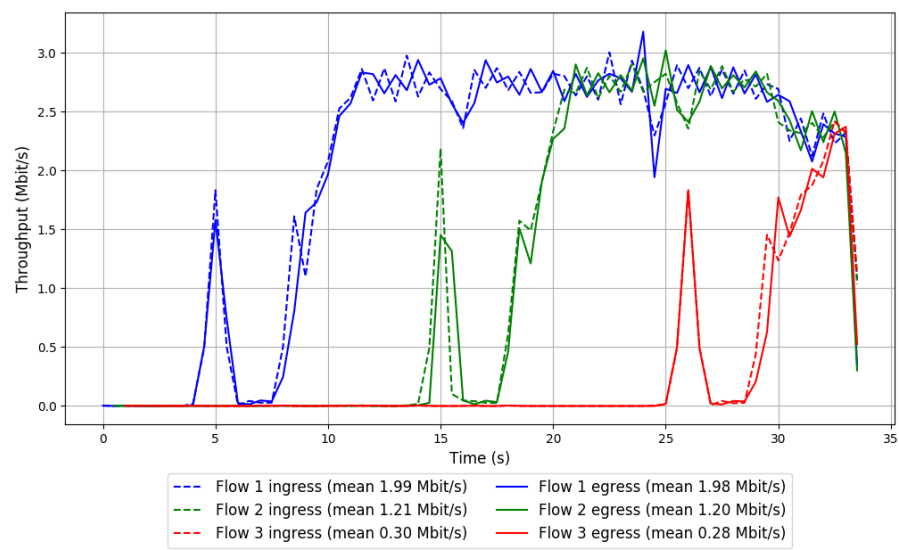
-- Flow 3:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 165.227 ms

Loss rate: 6.99%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-17 06:57:25

End at: 2017-11-17 06:57:55

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.44 Mbit/s

95th percentile per-packet one-way delay: 135.911 ms

Loss rate: 1.80%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 135.511 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 136.000 ms

Loss rate: 1.53%

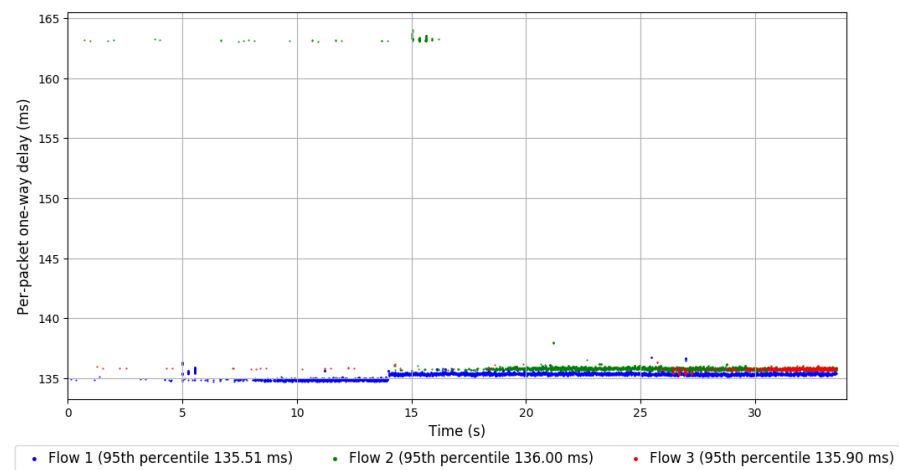
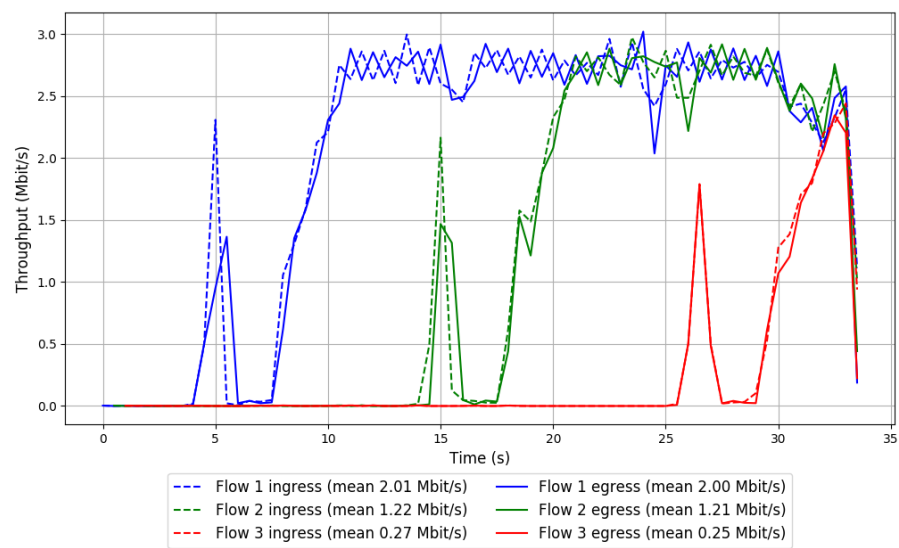
-- Flow 3:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 135.900 ms

Loss rate: 8.27%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

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

End at: 2017-11-17 07:11:41

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.50 Mbit/s

95th percentile per-packet one-way delay: 136.289 ms

Loss rate: 1.79%

-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 136.325 ms

Loss rate: 1.14%

-- Flow 2:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 134.770 ms

Loss rate: 1.71%

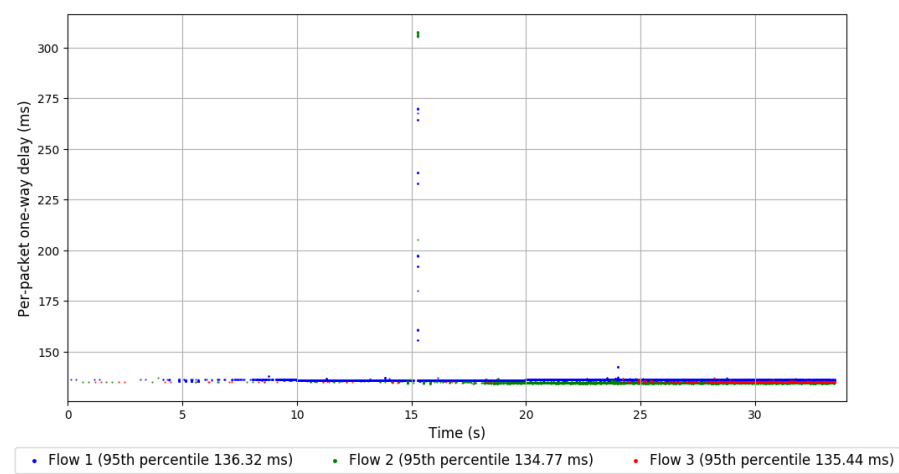
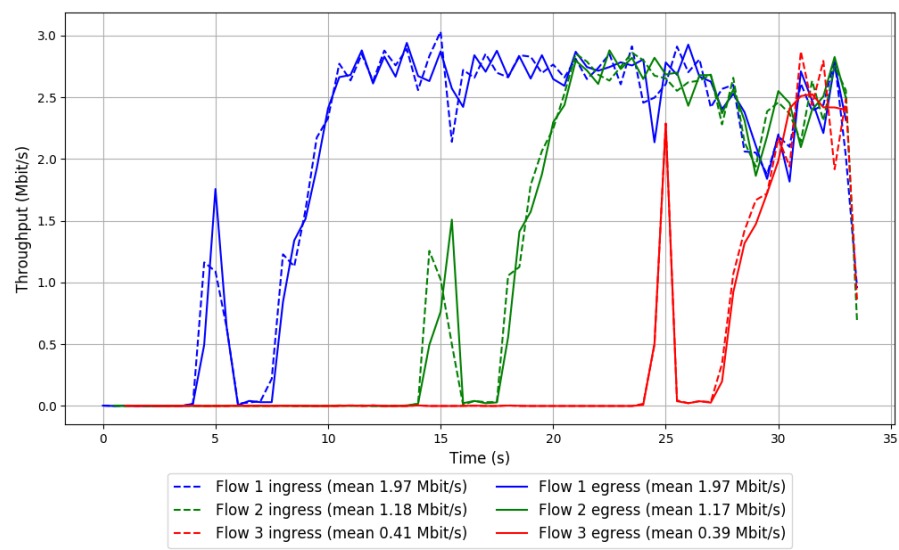
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 135.444 ms

Loss rate: 5.23%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-17 07:25:17

End at: 2017-11-17 07:25:47

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.45 Mbit/s

95th percentile per-packet one-way delay: 136.353 ms

Loss rate: 2.21%

-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 136.394 ms

Loss rate: 1.31%

-- Flow 2:

Average throughput: 1.18 Mbit/s

95th percentile per-packet one-way delay: 136.018 ms

Loss rate: 2.33%

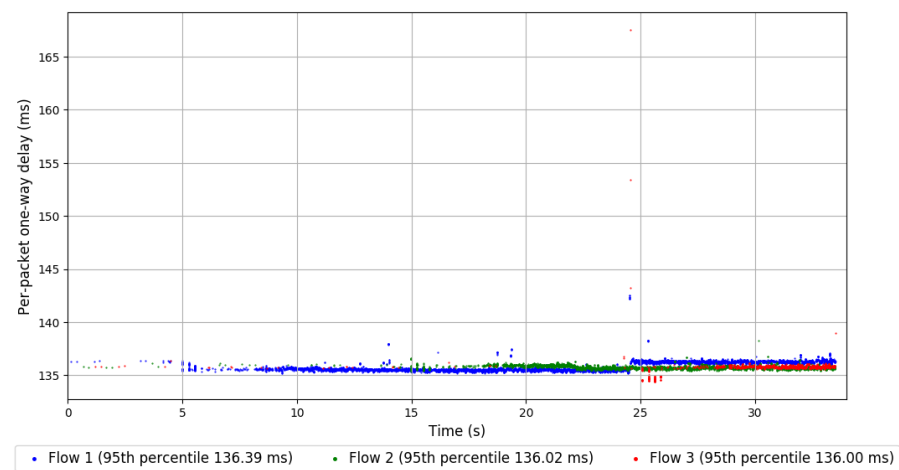
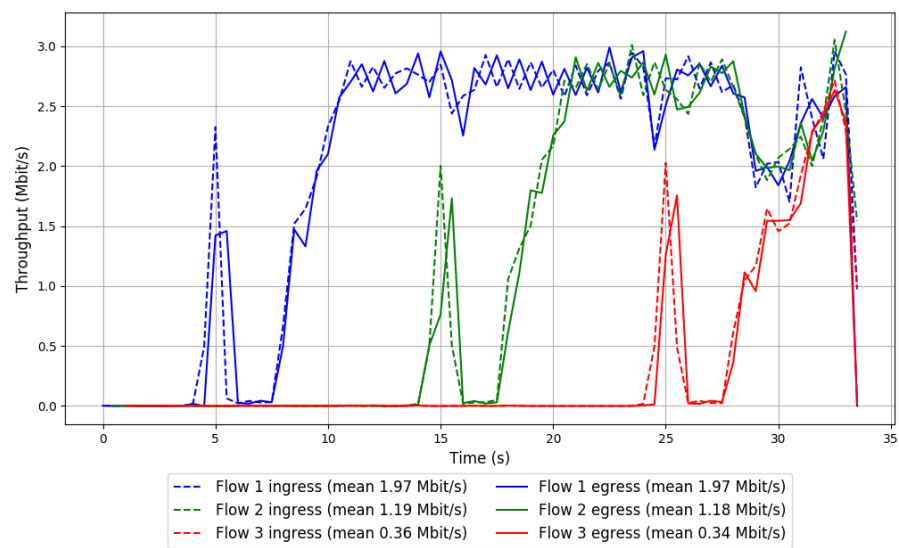
-- Flow 3:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 136.000 ms

Loss rate: 6.94%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-17 07:39:07

End at: 2017-11-17 07:39:37

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.47 Mbit/s

95th percentile per-packet one-way delay: 136.225 ms

Loss rate: 1.65%

-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 136.256 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 1.18 Mbit/s

95th percentile per-packet one-way delay: 135.598 ms

Loss rate: 1.42%

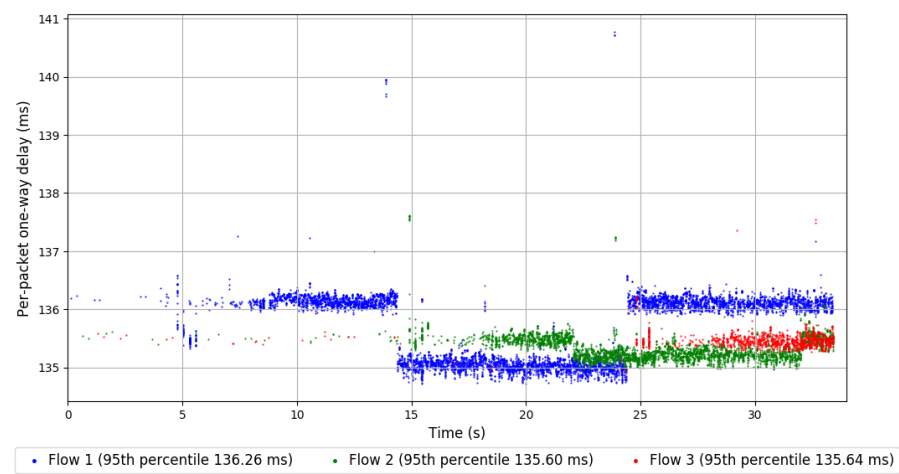
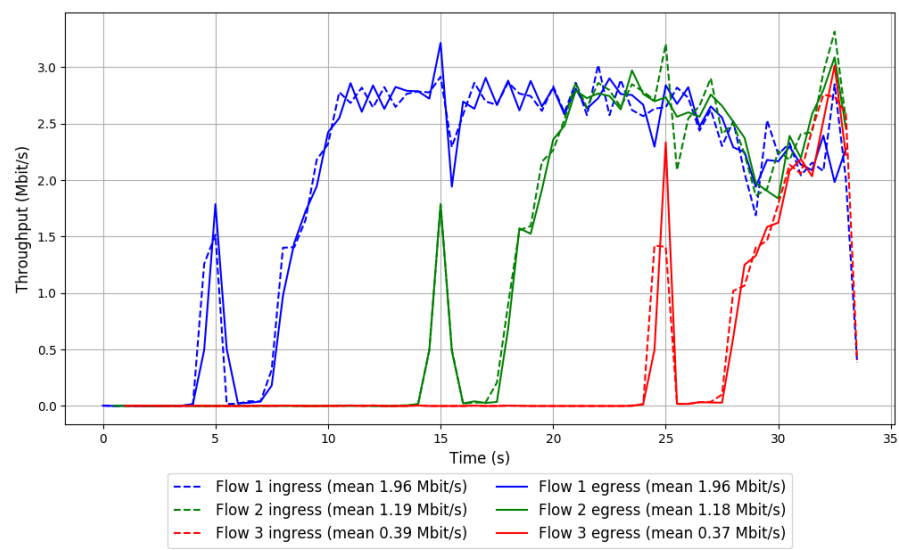
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 135.639 ms

Loss rate: 5.96%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-17 07:52:44

End at: 2017-11-17 07:53:14

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.46 Mbit/s

95th percentile per-packet one-way delay: 136.280 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 136.314 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 134.840 ms

Loss rate: 1.68%

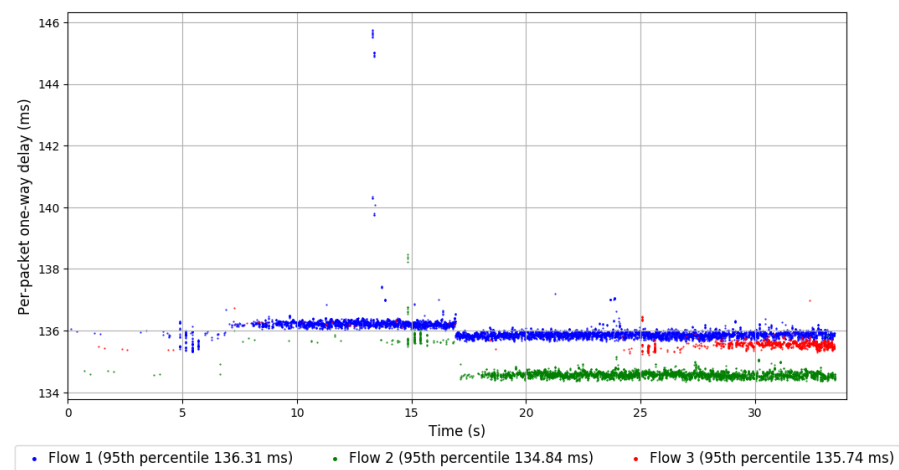
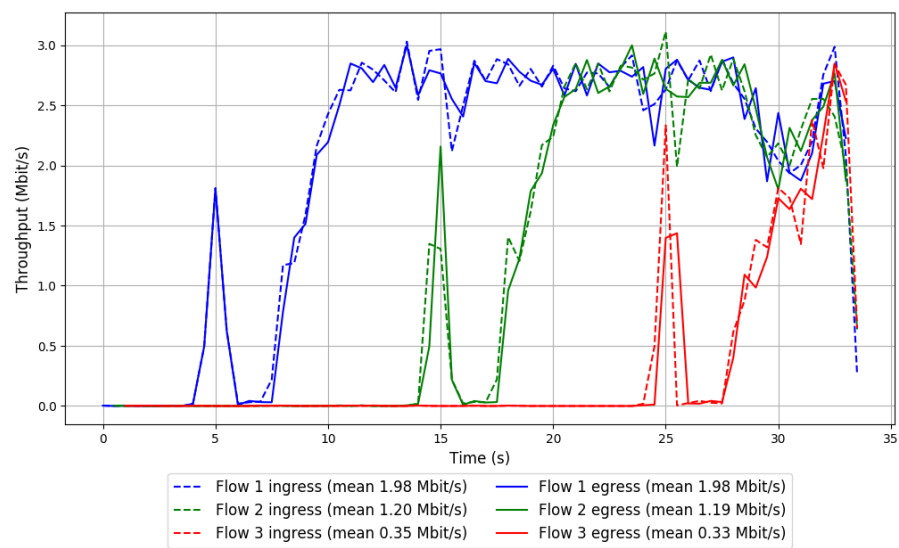
-- Flow 3:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 135.738 ms

Loss rate: 5.95%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-17 08:06:47

End at: 2017-11-17 08:07:17

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.54 Mbit/s

95th percentile per-packet one-way delay: 136.668 ms

Loss rate: 2.11%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 136.271 ms

Loss rate: 1.24%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 136.728 ms

Loss rate: 2.28%

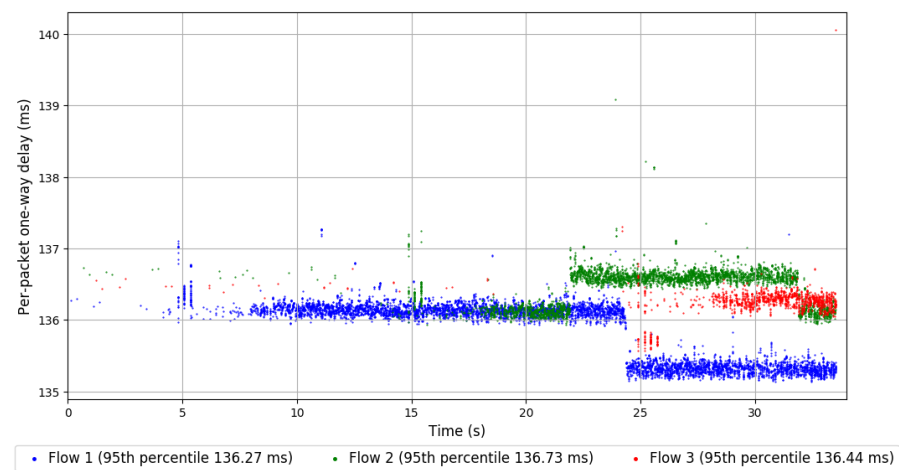
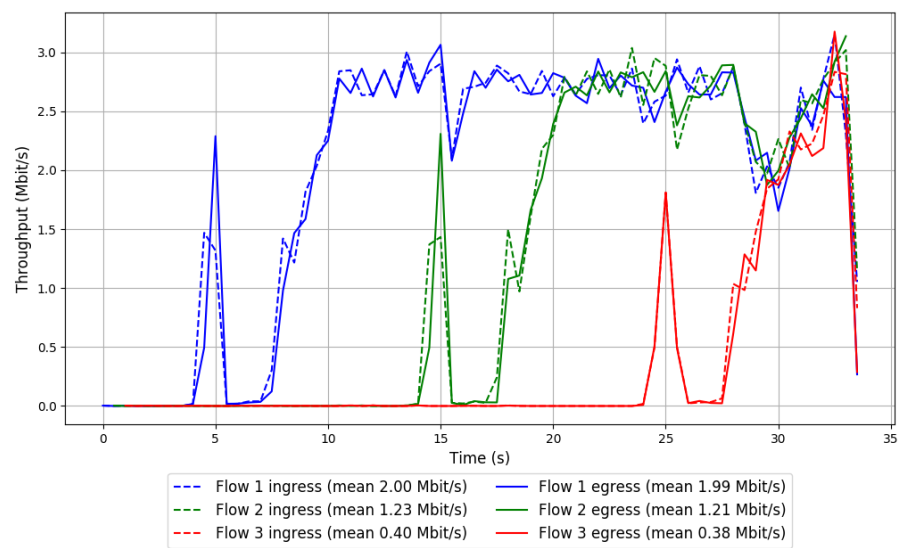
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.441 ms

Loss rate: 6.10%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-17 08:20:42

End at: 2017-11-17 08:21:12

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.48 Mbit/s

95th percentile per-packet one-way delay: 137.249 ms

Loss rate: 1.75%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 137.270 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 137.152 ms

Loss rate: 1.66%

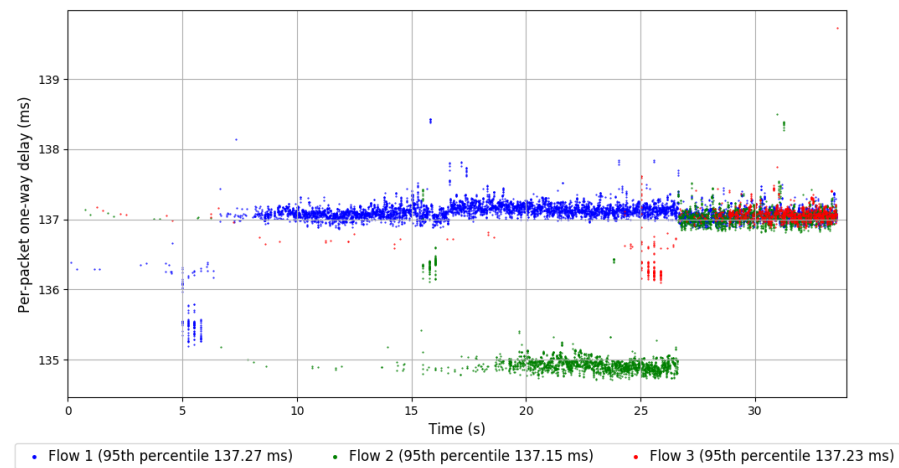
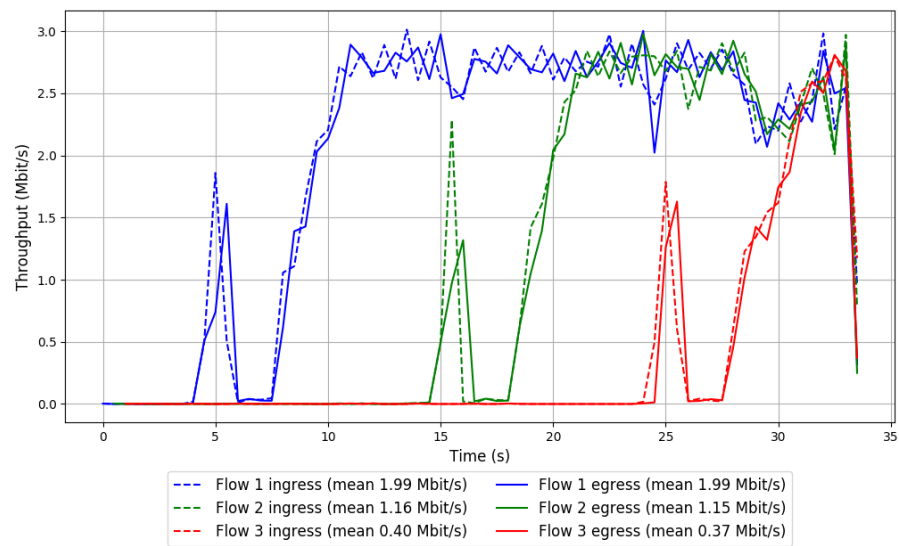
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 137.229 ms

Loss rate: 6.26%

Run 10: Report of WebRTC media — Data Link

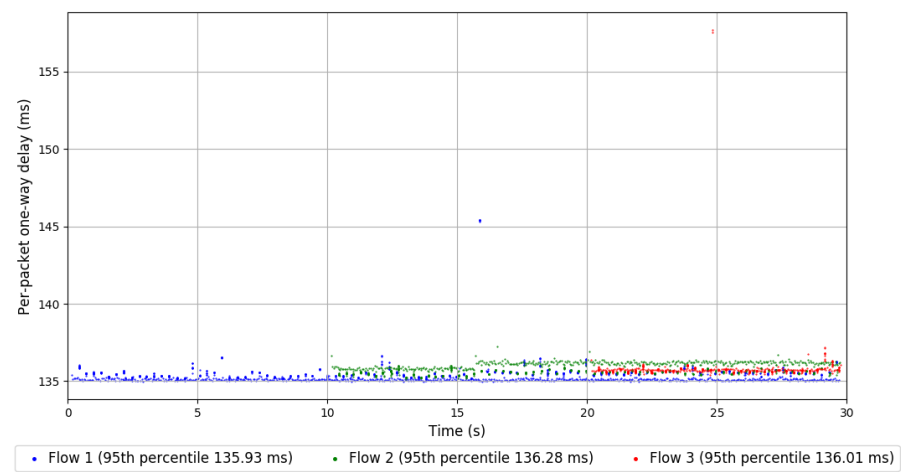
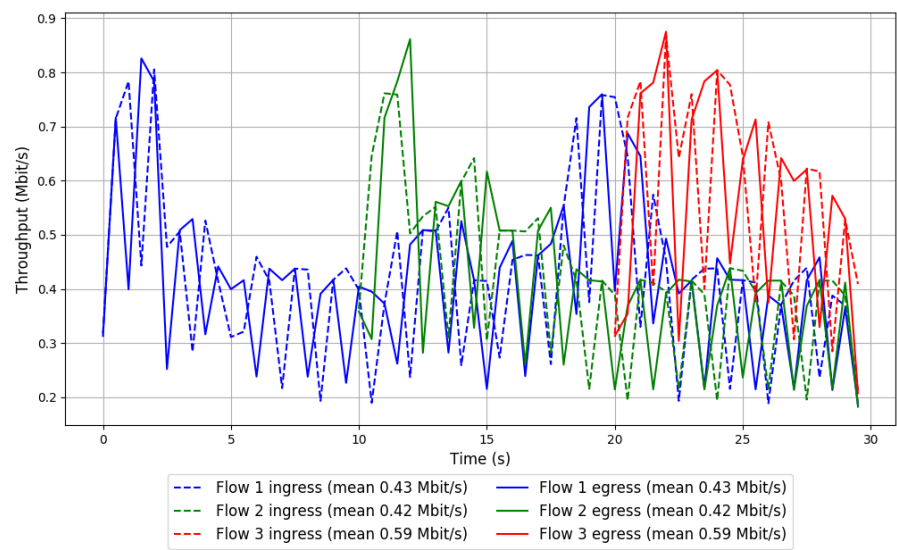


```
Run 1: Statistics of Sprout

Start at: 2017-11-17 06:19:42
End at: 2017-11-17 06:20:12

# Below is generated by plot.py at 2017-11-17 11:13:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 136.232 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 135.934 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 136.278 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 136.009 ms
Loss rate: 1.77%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-17 06:33:12

End at: 2017-11-17 06:33:42

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.84 Mbit/s

95th percentile per-packet one-way delay: 163.341 ms

Loss rate: 1.29%

-- Flow 1:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 163.341 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 163.319 ms

Loss rate: 1.32%

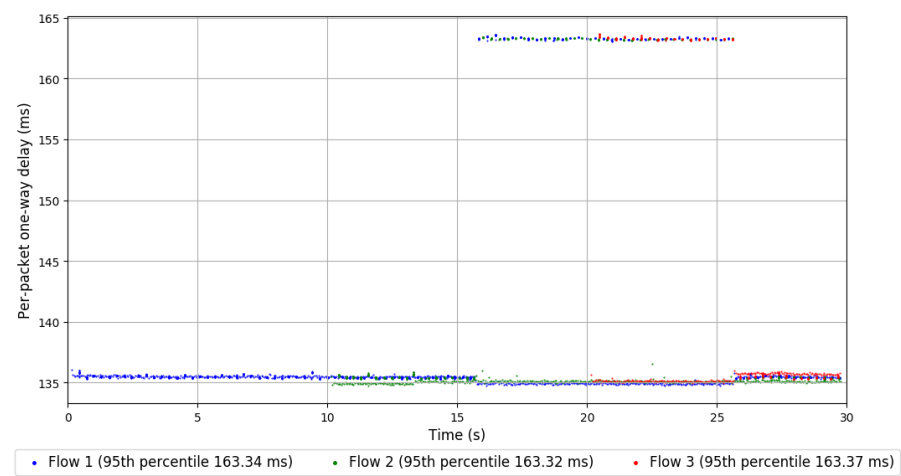
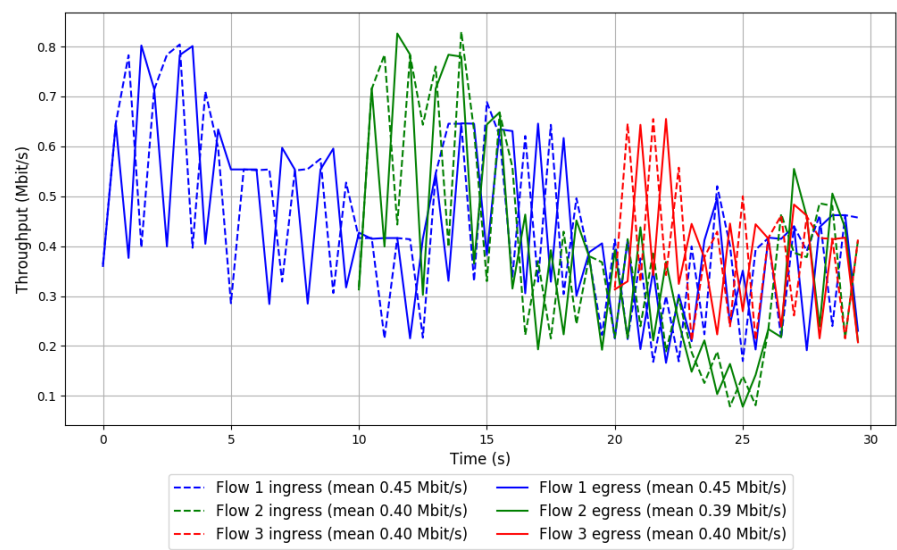
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 163.367 ms

Loss rate: 2.65%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-17 06:46:37

End at: 2017-11-17 06:47:07

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 163.454 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 163.513 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 163.416 ms

Loss rate: 0.61%

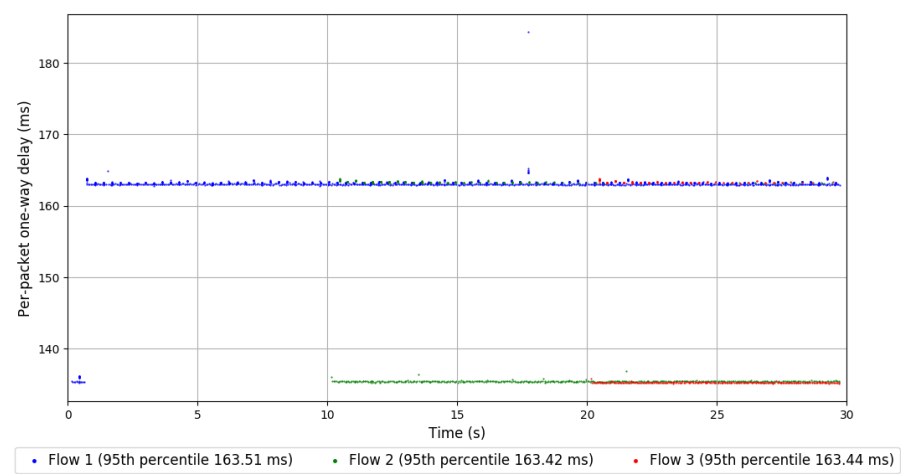
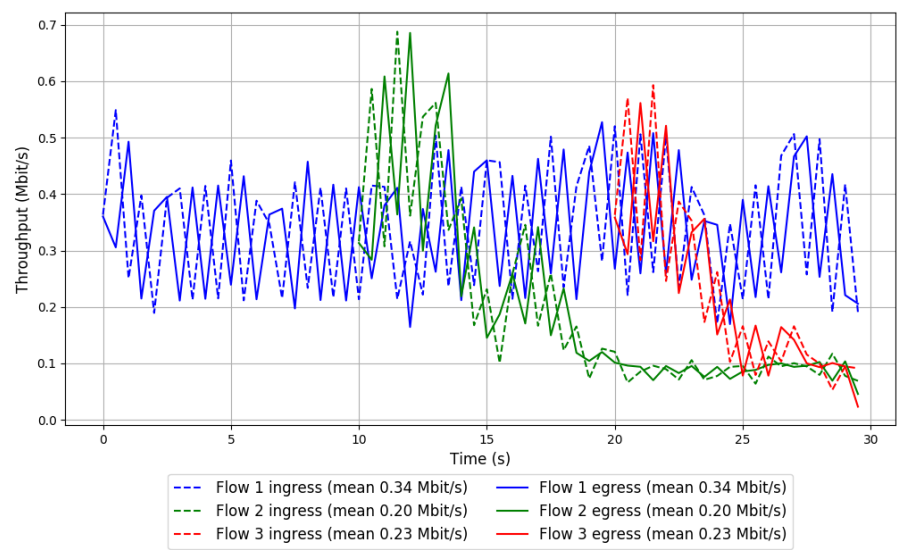
-- Flow 3:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 163.437 ms

Loss rate: 1.61%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-17 07:00:06

End at: 2017-11-17 07:00:36

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.86 Mbit/s

95th percentile per-packet one-way delay: 136.158 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.187 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 135.835 ms

Loss rate: 1.25%

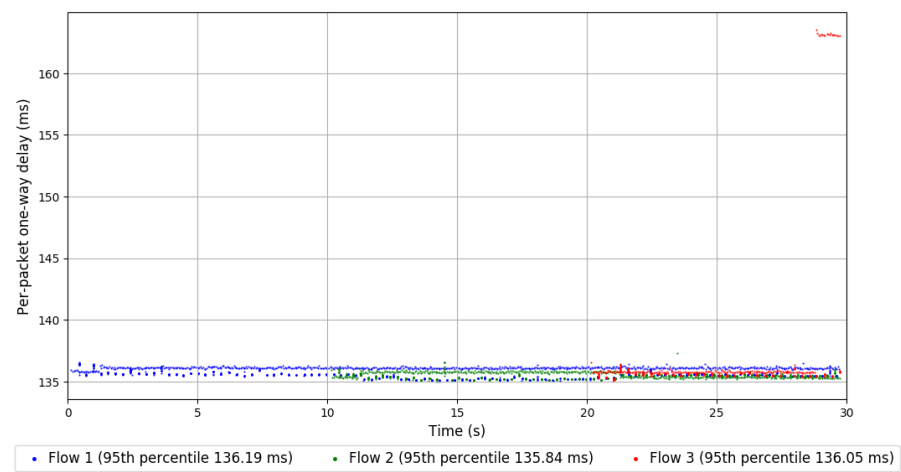
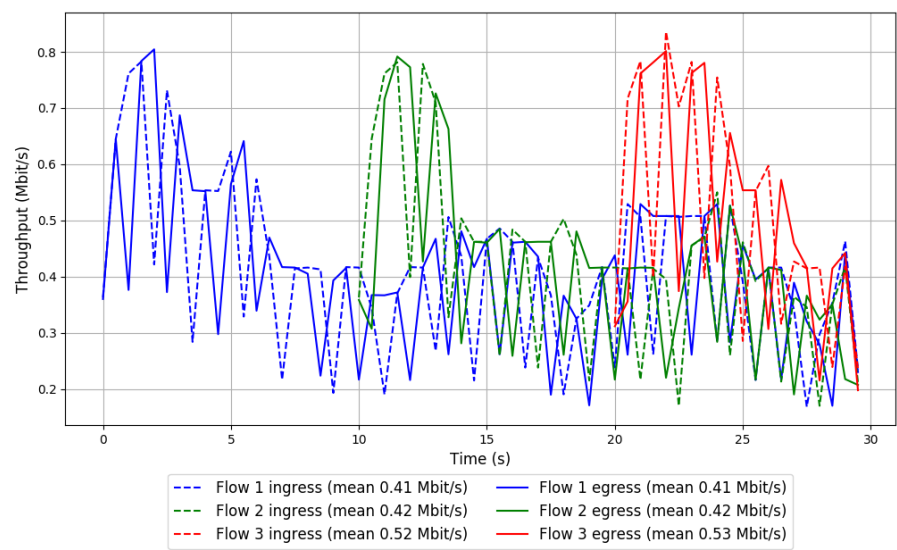
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 136.052 ms

Loss rate: 0.42%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-17 07:13:58

End at: 2017-11-17 07:14:28

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.87 Mbit/s

95th percentile per-packet one-way delay: 136.015 ms

Loss rate: 1.64%

-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 135.790 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 135.041 ms

Loss rate: 1.41%

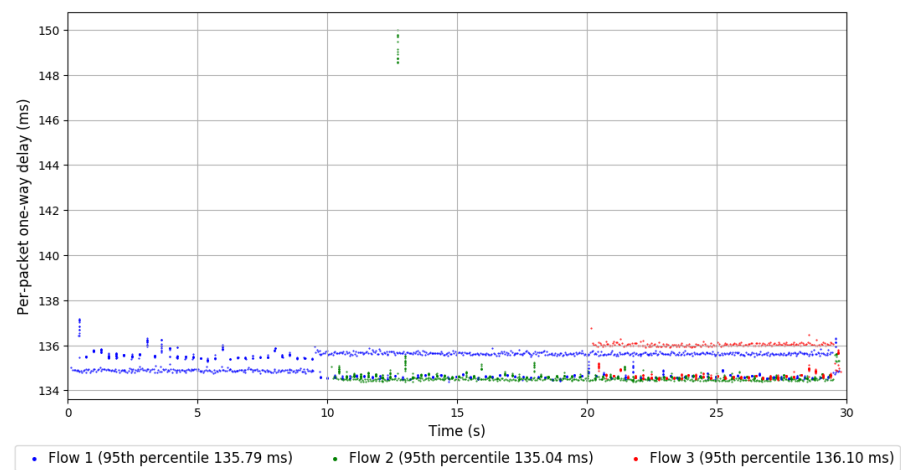
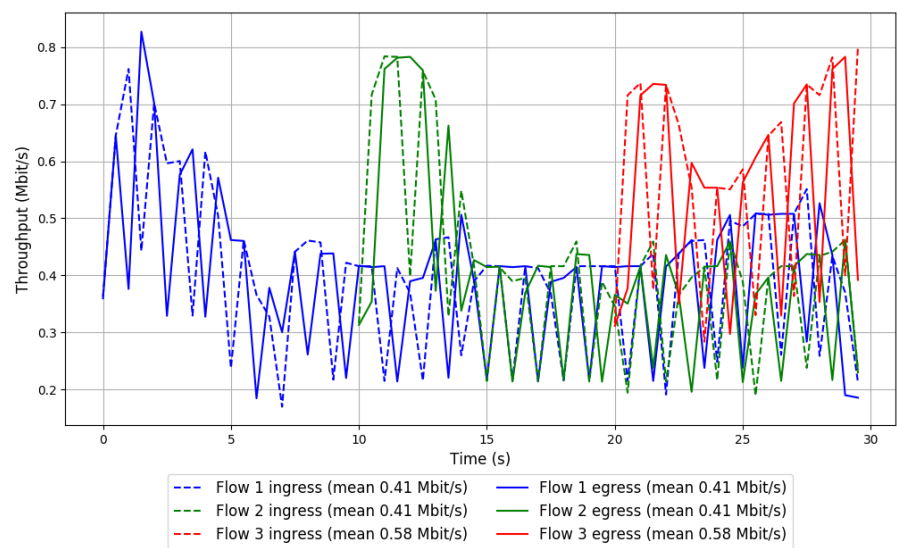
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 136.100 ms

Loss rate: 3.59%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-17 07:27:59

End at: 2017-11-17 07:28:29

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.98 Mbit/s

95th percentile per-packet one-way delay: 135.693 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 135.703 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 135.715 ms

Loss rate: 0.94%

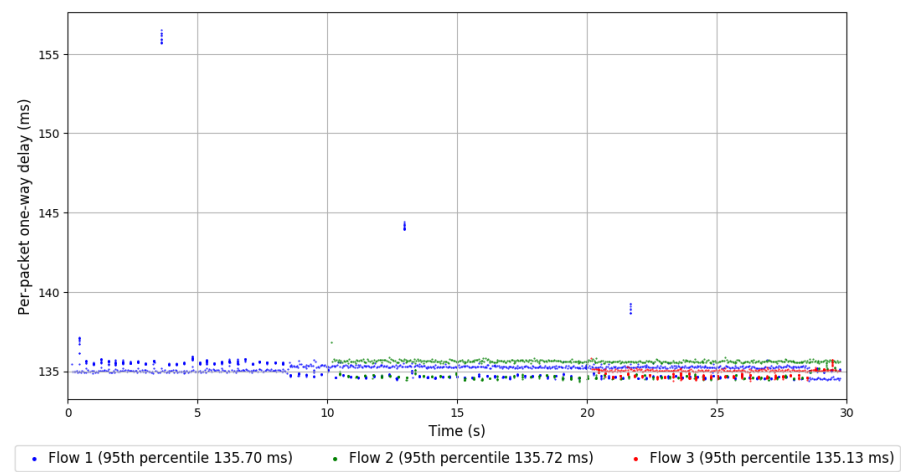
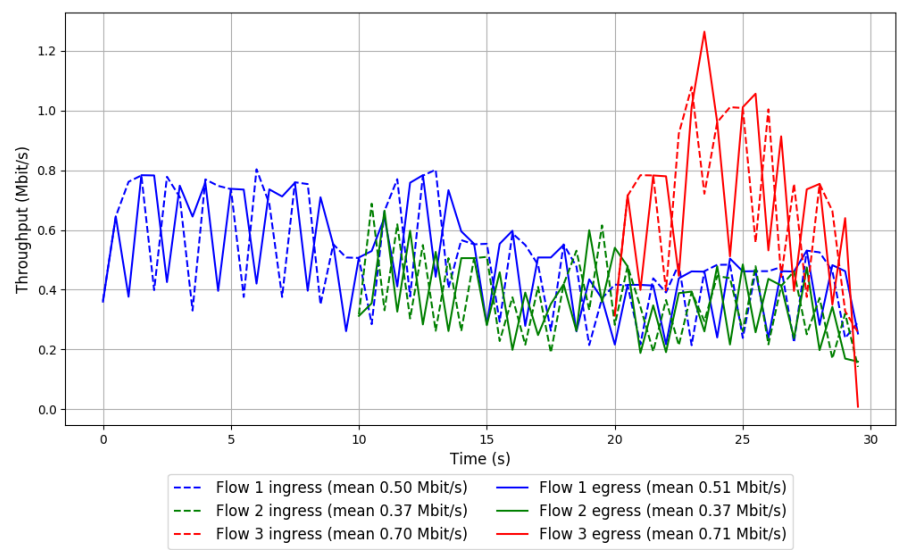
-- Flow 3:

Average throughput: 0.71 Mbit/s

95th percentile per-packet one-way delay: 135.128 ms

Loss rate: 1.84%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-17 07:41:47

End at: 2017-11-17 07:42:18

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.84 Mbit/s

95th percentile per-packet one-way delay: 135.931 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.015 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 135.696 ms

Loss rate: 0.05%

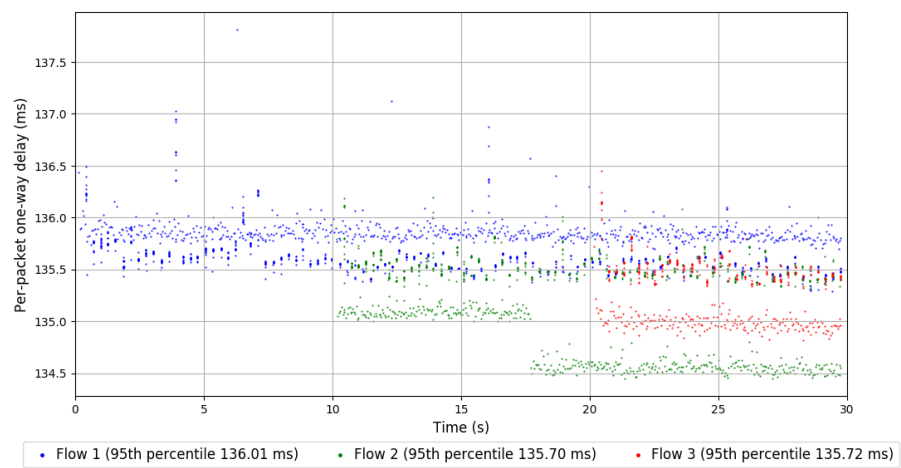
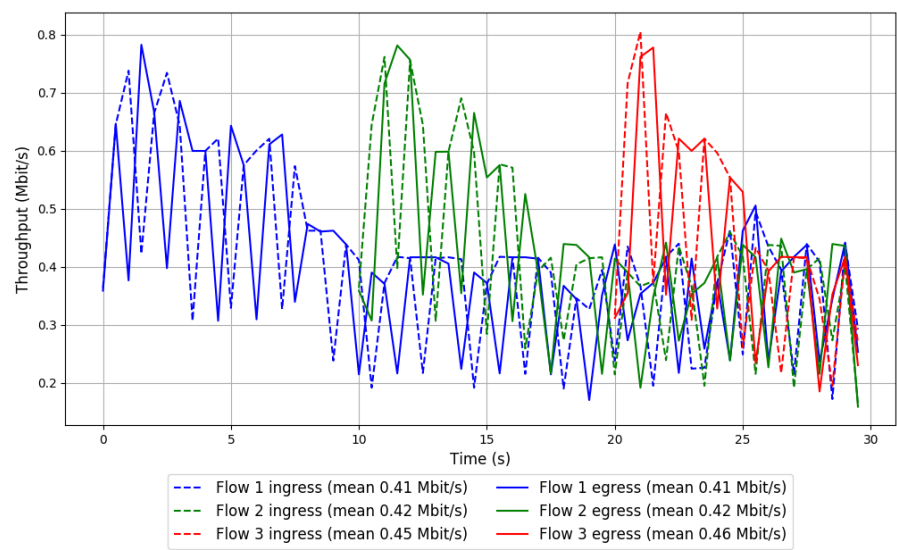
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 135.718 ms

Loss rate: 0.48%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-17 07:55:31

End at: 2017-11-17 07:56:01

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.93 Mbit/s

95th percentile per-packet one-way delay: 136.115 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 136.194 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.018 ms

Loss rate: 1.25%

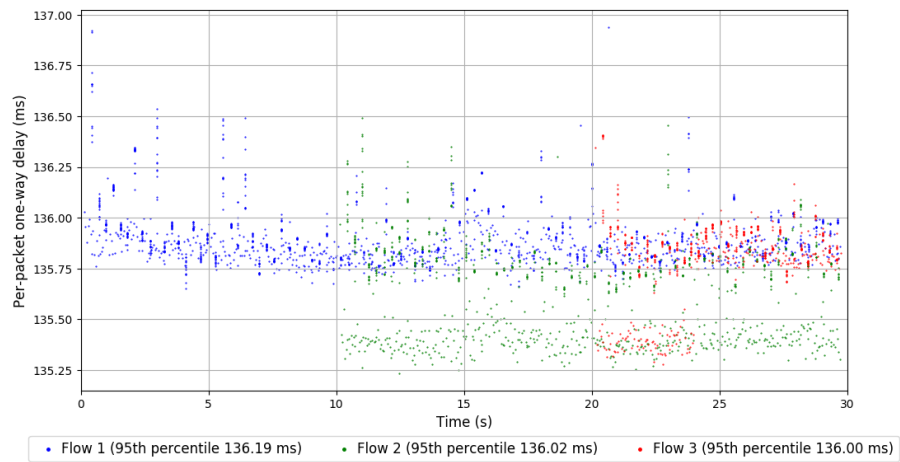
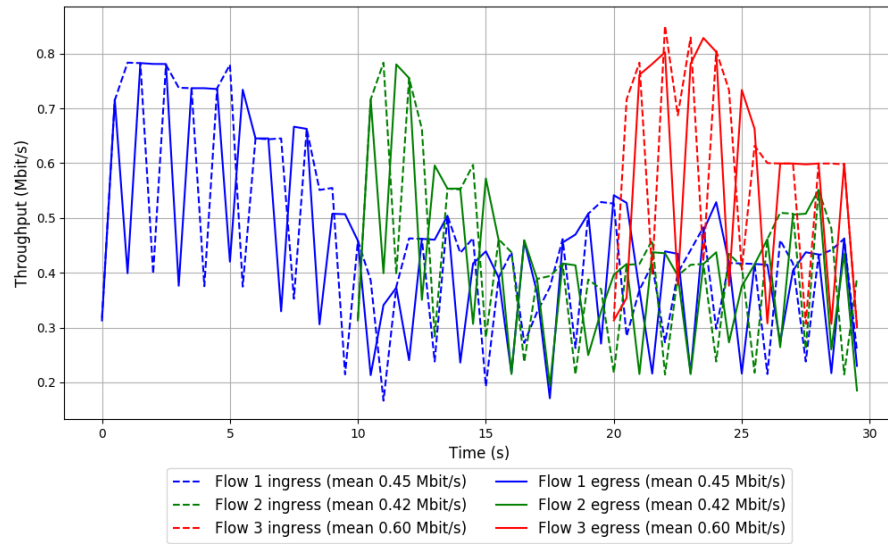
-- Flow 3:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 136.004 ms

Loss rate: 2.54%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-17 08:09:33

End at: 2017-11-17 08:10:03

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.82 Mbit/s

95th percentile per-packet one-way delay: 137.198 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.496 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 137.249 ms

Loss rate: 1.13%

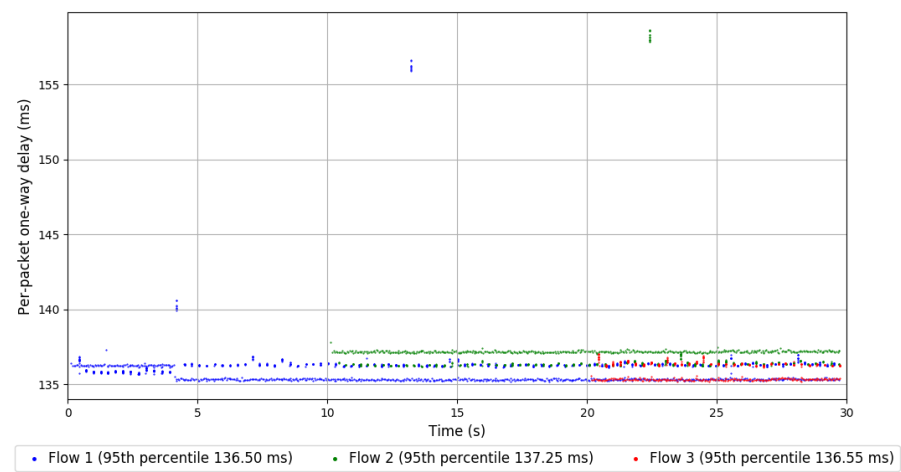
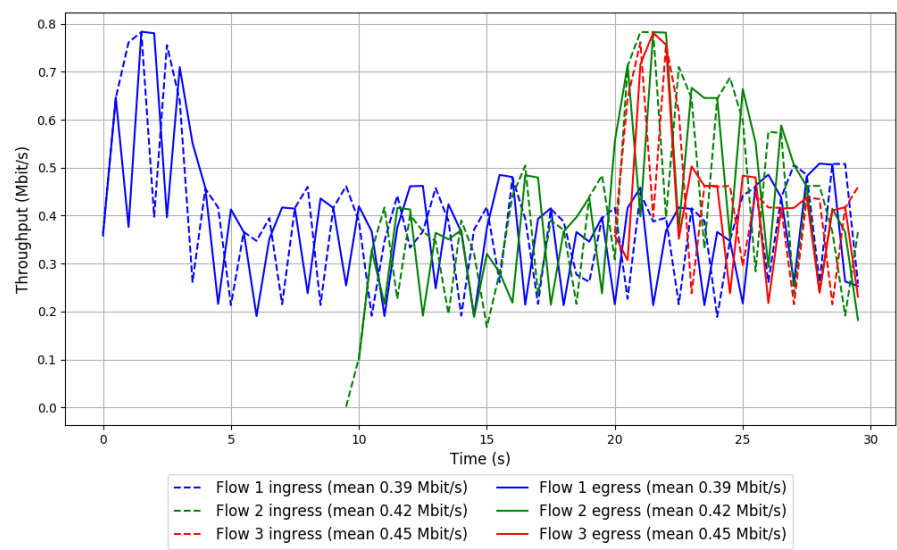
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 136.551 ms

Loss rate: 2.60%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-17 08:23:28

End at: 2017-11-17 08:23:58

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.82 Mbit/s

95th percentile per-packet one-way delay: 136.669 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.339 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 136.062 ms

Loss rate: 1.06%

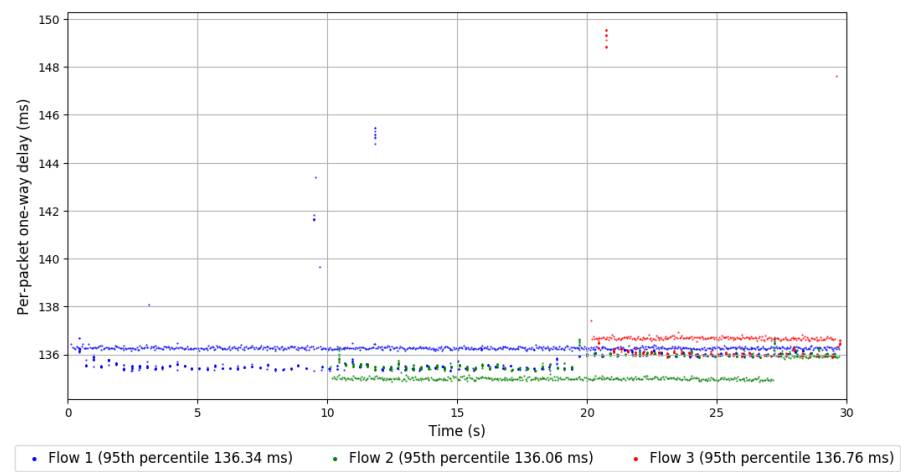
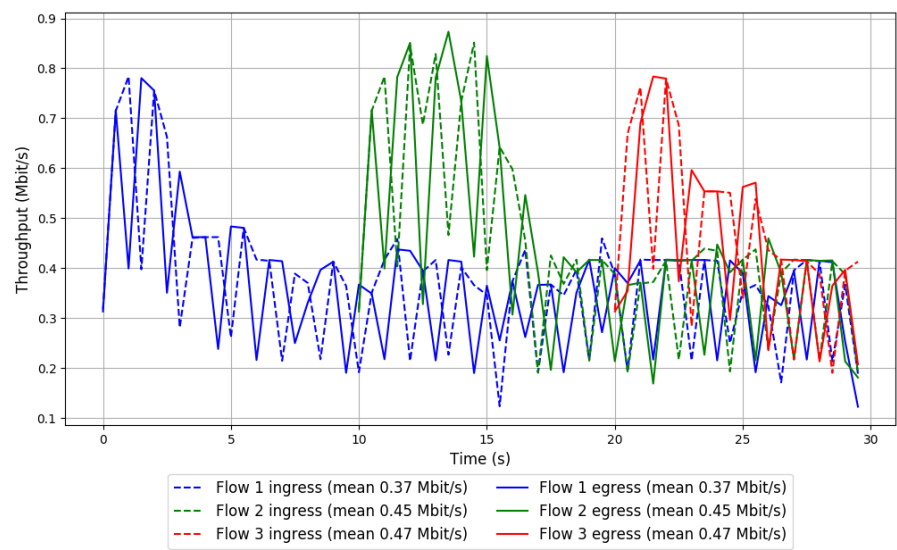
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 136.761 ms

Loss rate: 2.25%

Run 10: Report of Sprout — Data Link

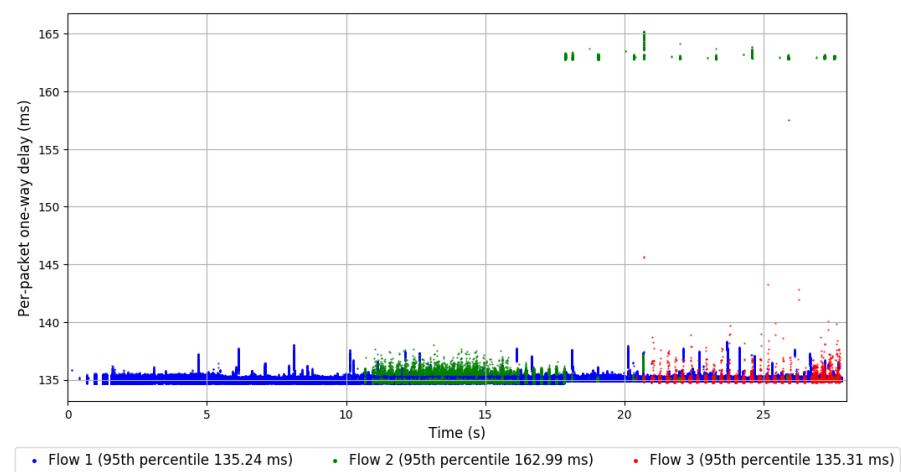
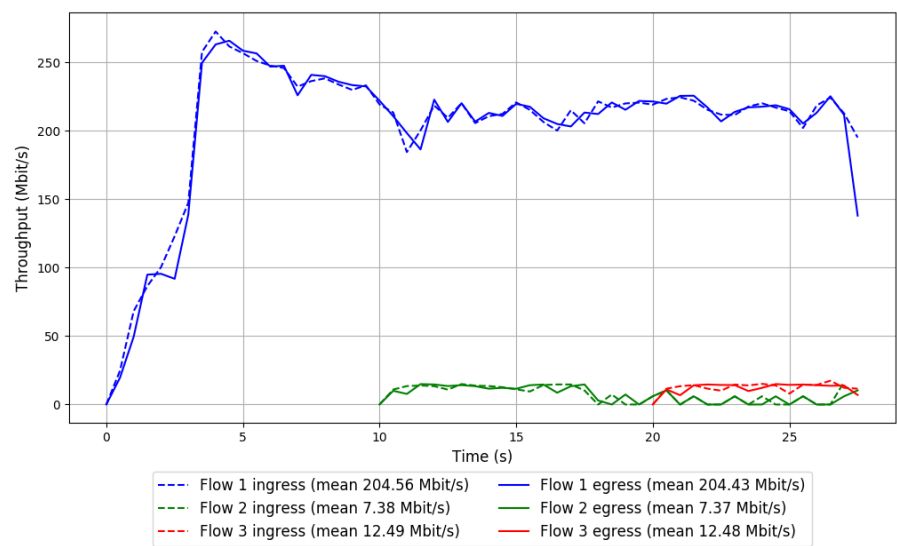


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-17 06:08:48
End at: 2017-11-17 06:09:18

# Below is generated by plot.py at 2017-11-17 11:13:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 212.50 Mbit/s
95th percentile per-packet one-way delay: 135.264 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 204.43 Mbit/s
95th percentile per-packet one-way delay: 135.242 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 7.37 Mbit/s
95th percentile per-packet one-way delay: 162.985 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.48 Mbit/s
95th percentile per-packet one-way delay: 135.314 ms
Loss rate: 3.49%
```


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

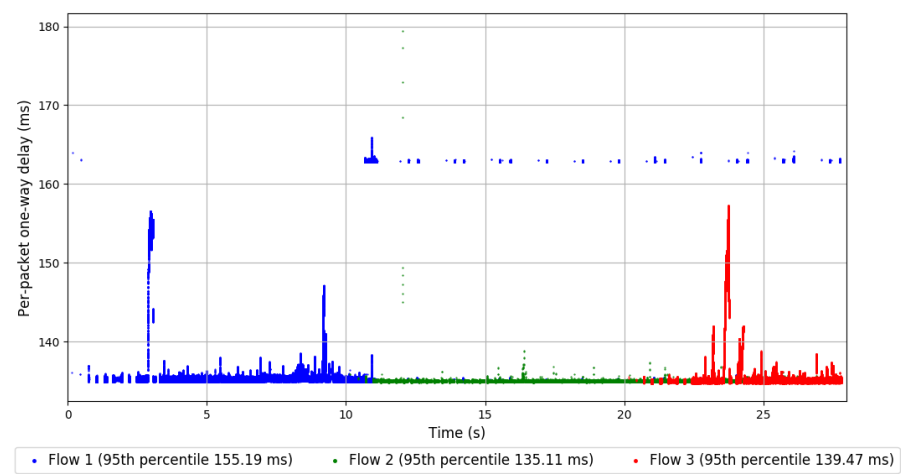
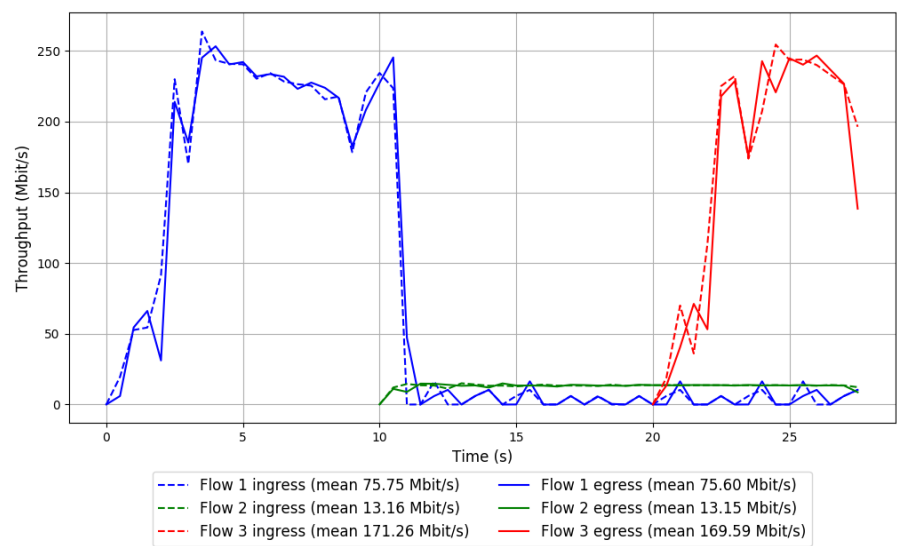


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-17 06:22:35
End at: 2017-11-17 06:23:05

# Below is generated by plot.py at 2017-11-17 11:13:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 130.75 Mbit/s
95th percentile per-packet one-way delay: 143.945 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 75.60 Mbit/s
95th percentile per-packet one-way delay: 155.195 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 13.15 Mbit/s
95th percentile per-packet one-way delay: 135.106 ms
Loss rate: 1.57%
-- Flow 3:
Average throughput: 169.59 Mbit/s
95th percentile per-packet one-way delay: 139.466 ms
Loss rate: 4.33%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-11-17 06:36:13

End at: 2017-11-17 06:36:43

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 28.75 Mbit/s

95th percentile per-packet one-way delay: 164.888 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 6.91 Mbit/s

95th percentile per-packet one-way delay: 163.110 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 9.48 Mbit/s

95th percentile per-packet one-way delay: 164.990 ms

Loss rate: 0.65%

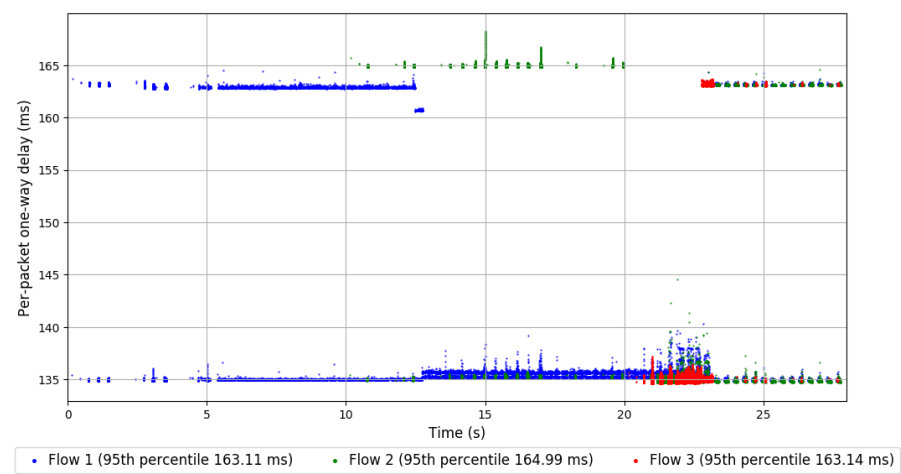
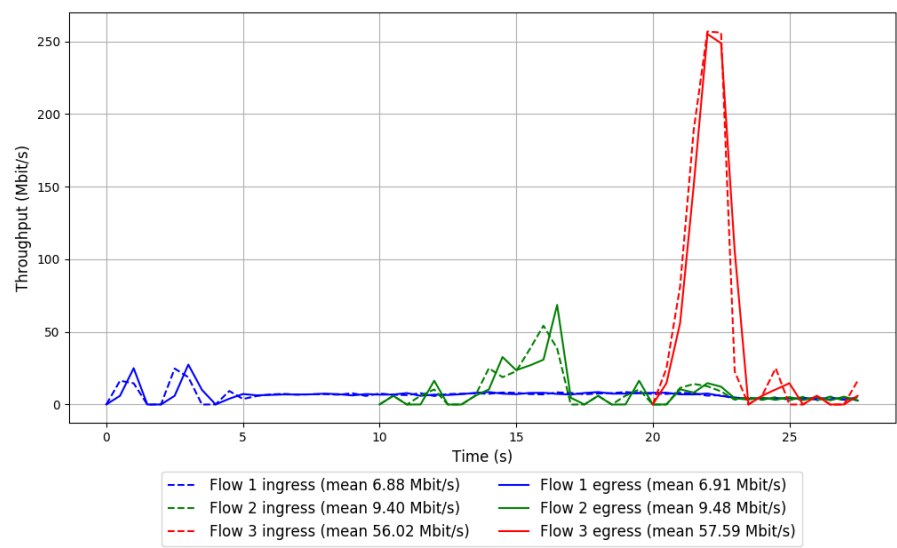
-- Flow 3:

Average throughput: 57.59 Mbit/s

95th percentile per-packet one-way delay: 163.140 ms

Loss rate: 1.17%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-17 06:49:39

End at: 2017-11-17 06:50:09

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.10 Mbit/s

95th percentile per-packet one-way delay: 164.792 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 7.00 Mbit/s

95th percentile per-packet one-way delay: 164.930 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 67.02 Mbit/s

95th percentile per-packet one-way delay: 136.752 ms

Loss rate: 0.00%

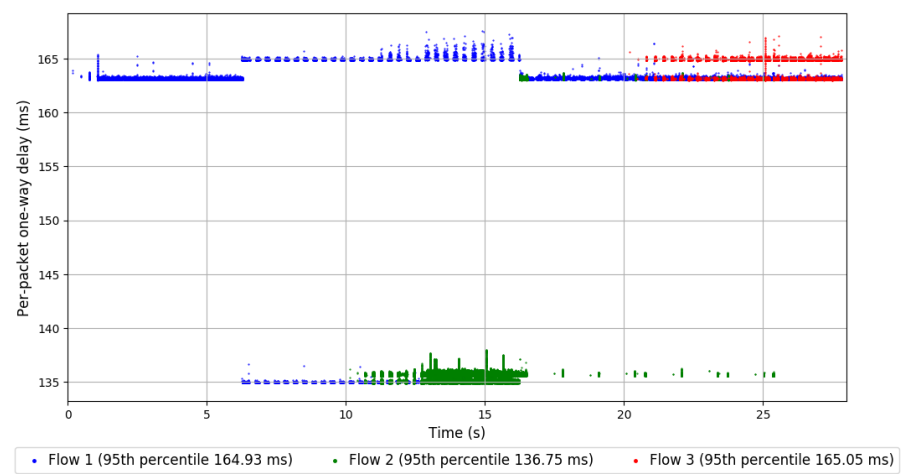
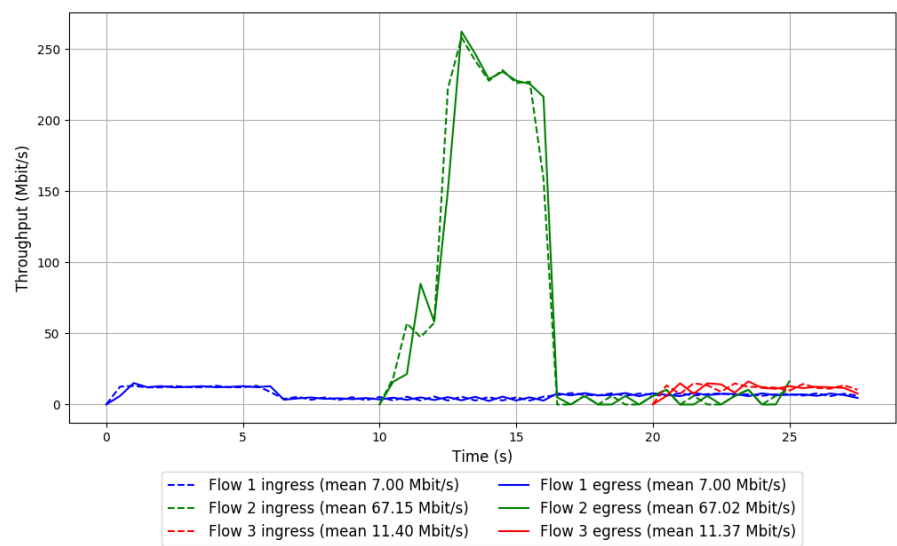
-- Flow 3:

Average throughput: 11.37 Mbit/s

95th percentile per-packet one-way delay: 165.051 ms

Loss rate: 4.01%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-17 07:02:47

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

Below is generated by plot.py at 2017-11-17 11:13:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 184.58 Mbit/s

95th percentile per-packet one-way delay: 137.846 ms

Loss rate: 1.93%

-- Flow 1:

Average throughput: 12.20 Mbit/s

95th percentile per-packet one-way delay: 135.962 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 192.19 Mbit/s

95th percentile per-packet one-way delay: 139.458 ms

Loss rate: 1.26%

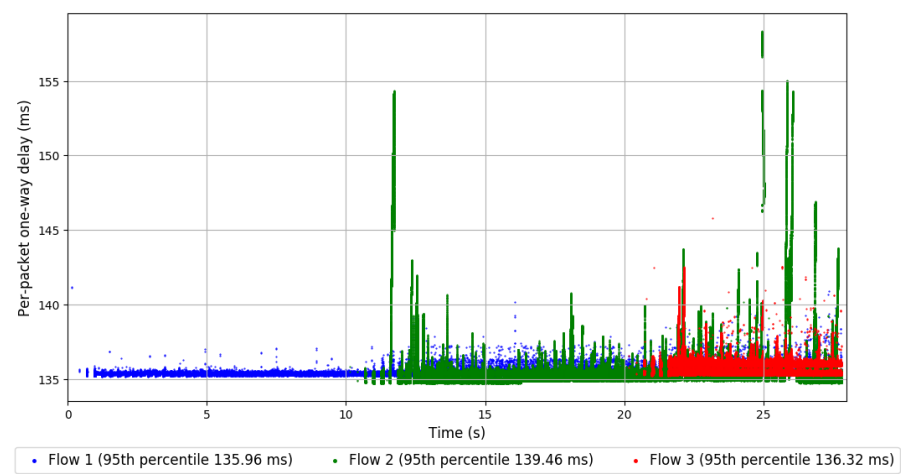
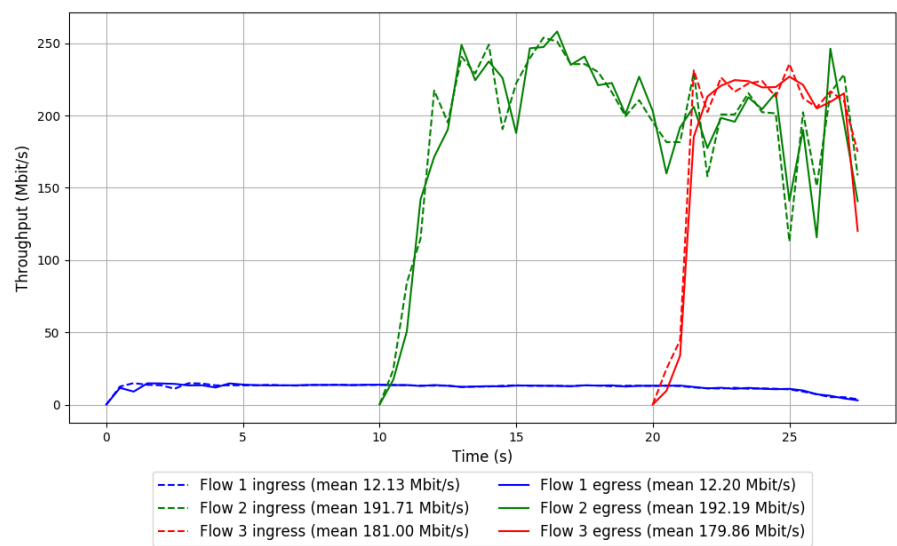
-- Flow 3:

Average throughput: 179.86 Mbit/s

95th percentile per-packet one-way delay: 136.319 ms

Loss rate: 3.92%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-17 07:16:44

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

Below is generated by plot.py at 2017-11-17 11:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 343.12 Mbit/s

95th percentile per-packet one-way delay: 135.928 ms

Loss rate: 1.65%

-- Flow 1:

Average throughput: 202.19 Mbit/s

95th percentile per-packet one-way delay: 135.814 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 190.77 Mbit/s

95th percentile per-packet one-way delay: 136.055 ms

Loss rate: 1.35%

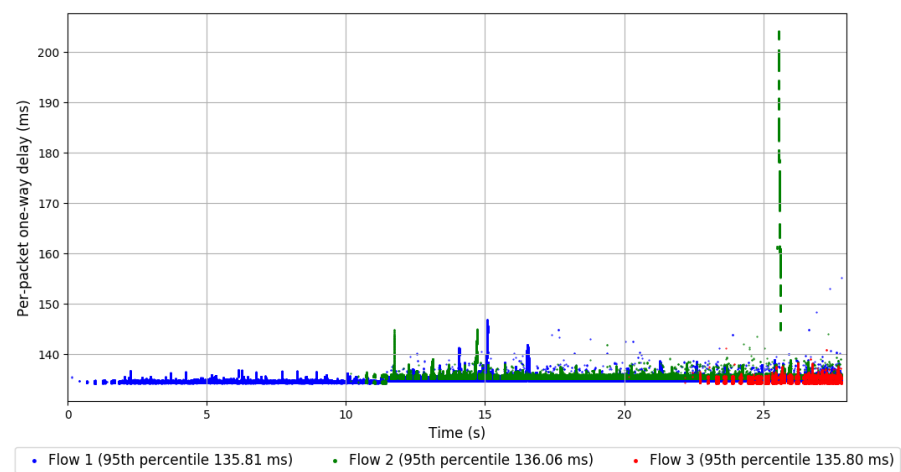
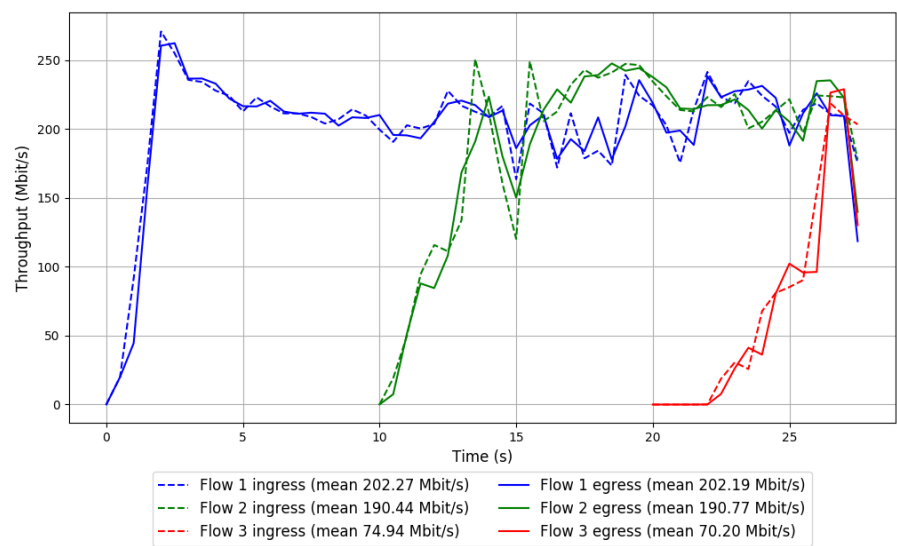
-- Flow 3:

Average throughput: 70.20 Mbit/s

95th percentile per-packet one-way delay: 135.799 ms

Loss rate: 9.56%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-17 07:30:40

End at: 2017-11-17 07:31:10

Below is generated by plot.py at 2017-11-17 11:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 298.90 Mbit/s

95th percentile per-packet one-way delay: 141.399 ms

Loss rate: 1.50%

-- Flow 1:

Average throughput: 164.91 Mbit/s

95th percentile per-packet one-way delay: 141.693 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 155.97 Mbit/s

95th percentile per-packet one-way delay: 139.647 ms

Loss rate: 1.86%

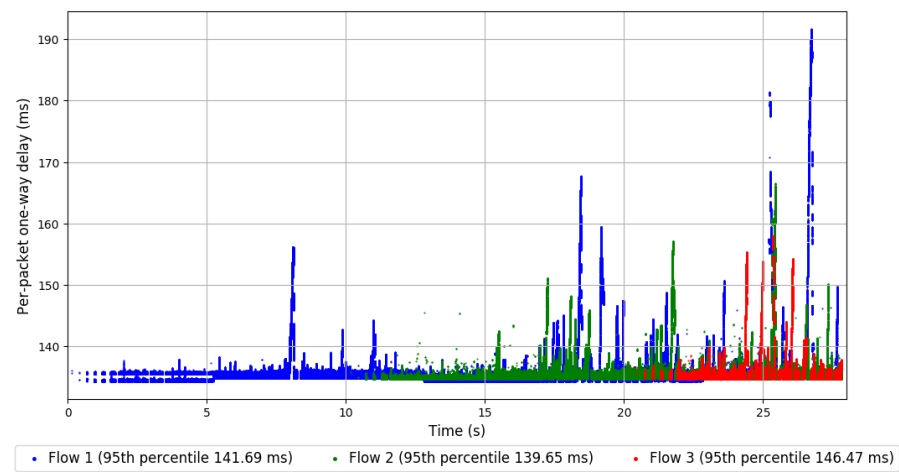
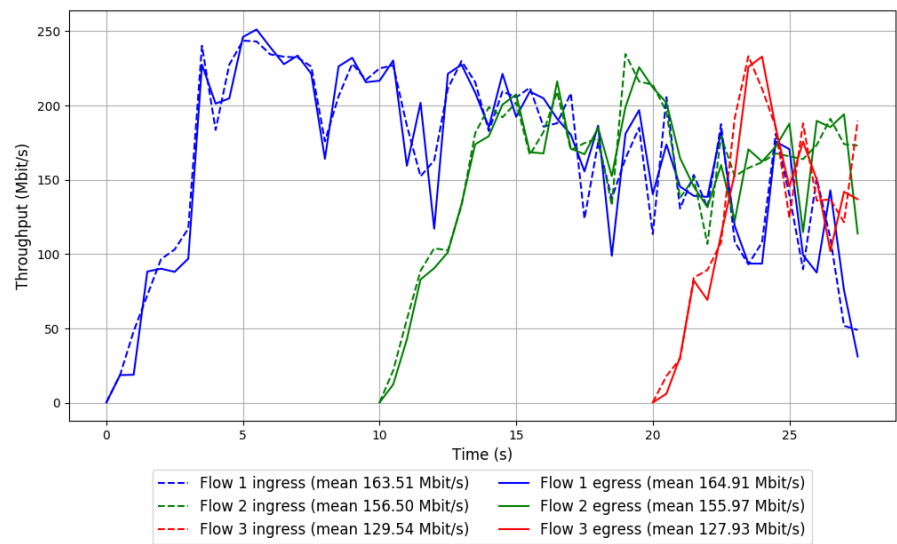
-- Flow 3:

Average throughput: 127.93 Mbit/s

95th percentile per-packet one-way delay: 146.473 ms

Loss rate: 4.65%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-17 07:44:28

End at: 2017-11-17 07:44:58

Below is generated by plot.py at 2017-11-17 11:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 190.52 Mbit/s

95th percentile per-packet one-way delay: 137.686 ms

Loss rate: 2.24%

-- Flow 1:

Average throughput: 35.26 Mbit/s

95th percentile per-packet one-way delay: 138.001 ms

Loss rate: 3.26%

-- Flow 2:

Average throughput: 178.45 Mbit/s

95th percentile per-packet one-way delay: 136.568 ms

Loss rate: 1.54%

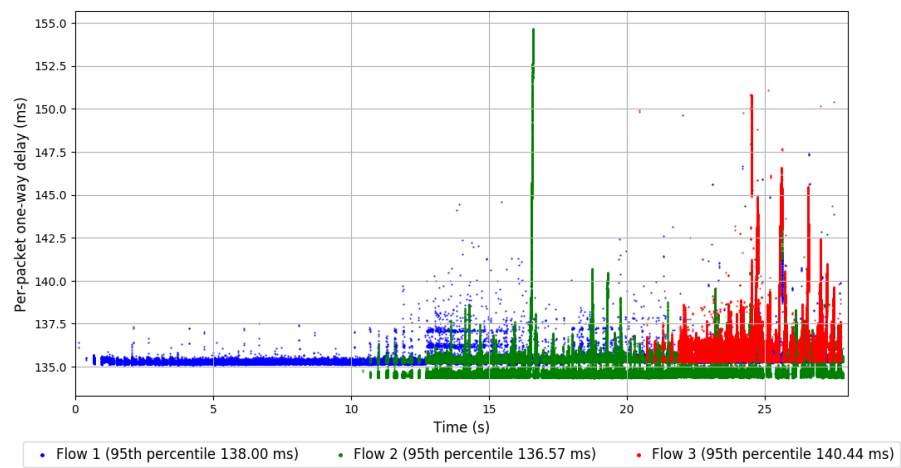
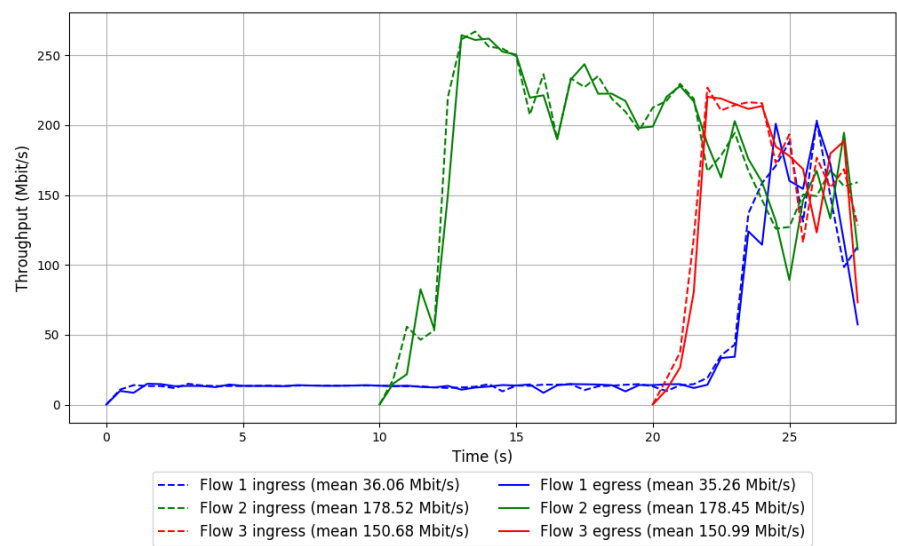
-- Flow 3:

Average throughput: 150.99 Mbit/s

95th percentile per-packet one-way delay: 140.443 ms

Loss rate: 3.25%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-17 07:58:18

End at: 2017-11-17 07:58:48

Below is generated by plot.py at 2017-11-17 11:19:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 323.16 Mbit/s

95th percentile per-packet one-way delay: 136.223 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 193.73 Mbit/s

95th percentile per-packet one-way delay: 135.839 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 196.25 Mbit/s

95th percentile per-packet one-way delay: 136.281 ms

Loss rate: 1.71%

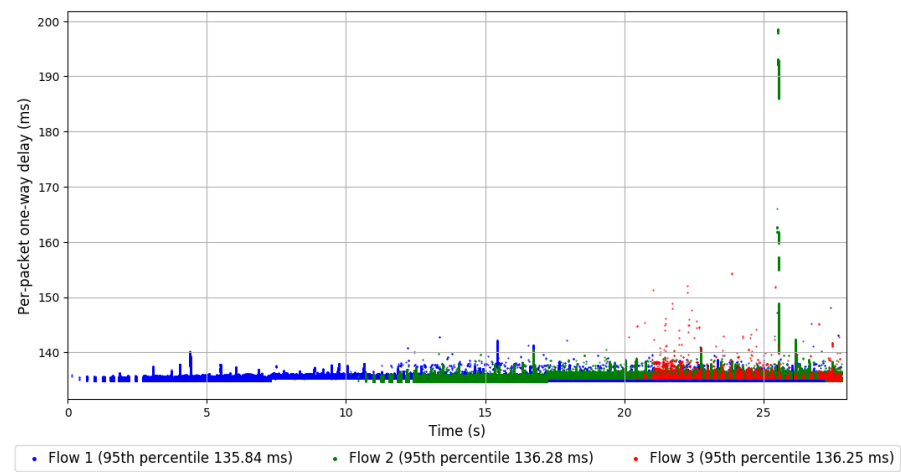
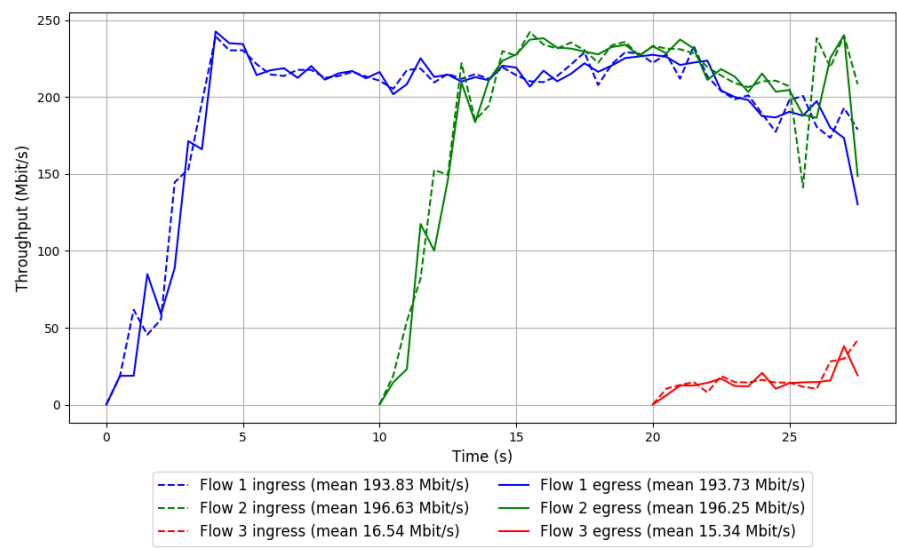
-- Flow 3:

Average throughput: 15.34 Mbit/s

95th percentile per-packet one-way delay: 136.254 ms

Loss rate: 10.44%

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

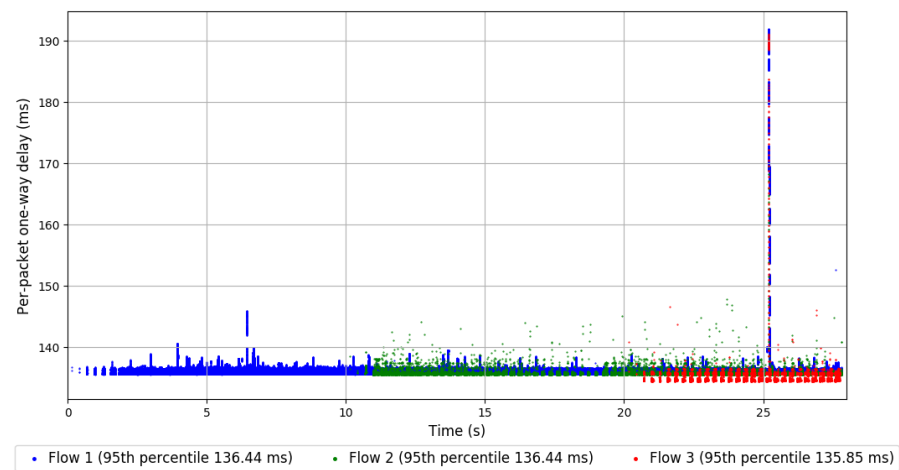
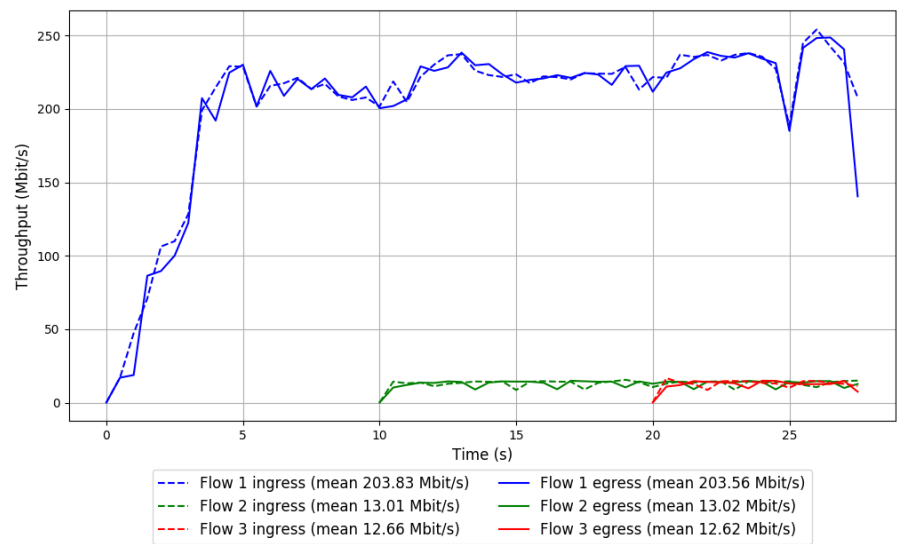


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-17 08:12:22
End at: 2017-11-17 08:12:52

# Below is generated by plot.py at 2017-11-17 11:19:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 215.33 Mbit/s
95th percentile per-packet one-way delay: 136.441 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 203.56 Mbit/s
95th percentile per-packet one-way delay: 136.442 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 13.02 Mbit/s
95th percentile per-packet one-way delay: 136.443 ms
Loss rate: 1.49%
-- Flow 3:
Average throughput: 12.62 Mbit/s
95th percentile per-packet one-way delay: 135.846 ms
Loss rate: 3.75%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-17 06:11:13

End at: 2017-11-17 06:11:43

Below is generated by plot.py at 2017-11-17 11:19:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.59 Mbit/s

95th percentile per-packet one-way delay: 143.548 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 31.80 Mbit/s

95th percentile per-packet one-way delay: 145.677 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 36.42 Mbit/s

95th percentile per-packet one-way delay: 137.426 ms

Loss rate: 1.57%

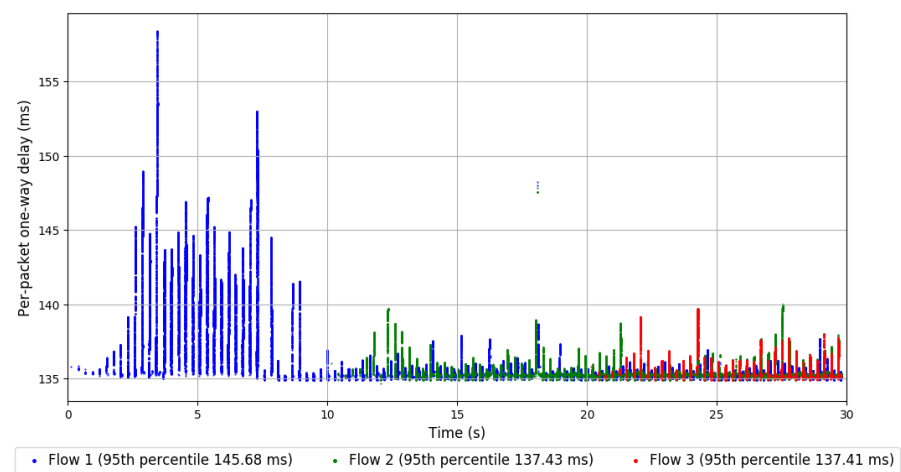
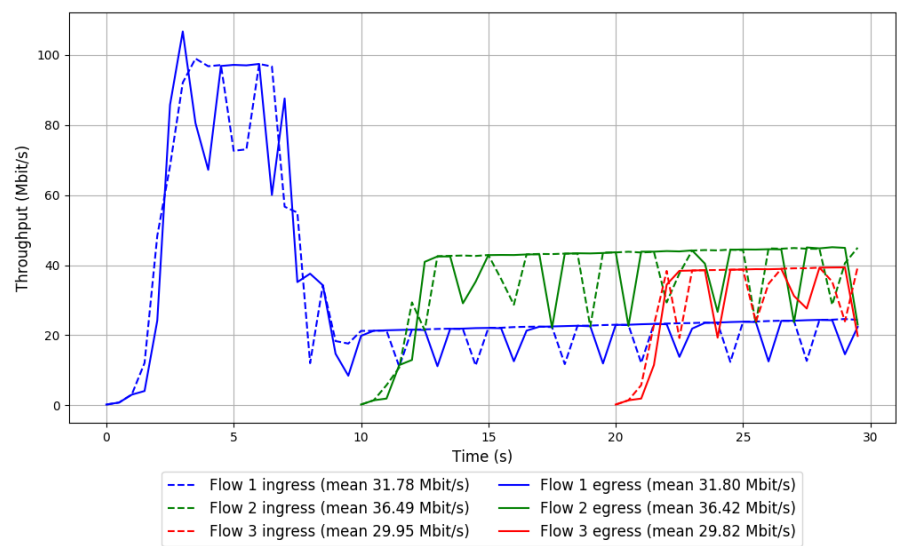
-- Flow 3:

Average throughput: 29.82 Mbit/s

95th percentile per-packet one-way delay: 137.413 ms

Loss rate: 3.33%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-17 06:24:51

End at: 2017-11-17 06:25:21

Below is generated by plot.py at 2017-11-17 11:19:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.57 Mbit/s

95th percentile per-packet one-way delay: 139.950 ms

Loss rate: 1.78%

-- Flow 1:

Average throughput: 3.90 Mbit/s

95th percentile per-packet one-way delay: 135.969 ms

Loss rate: 1.57%

-- Flow 2:

Average throughput: 21.76 Mbit/s

95th percentile per-packet one-way delay: 138.838 ms

Loss rate: 1.23%

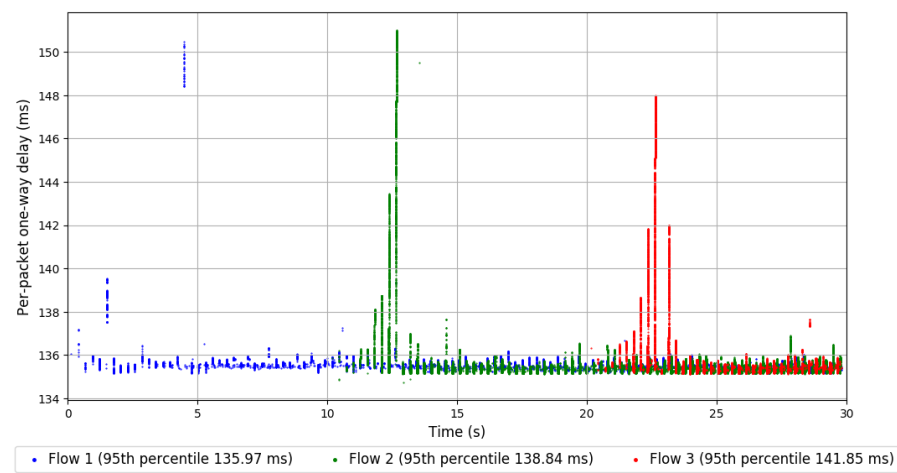
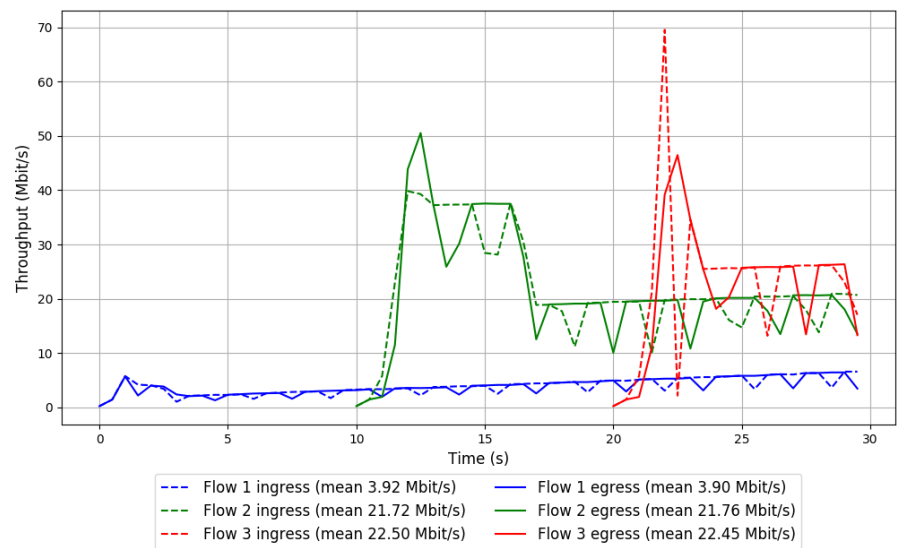
-- Flow 3:

Average throughput: 22.45 Mbit/s

95th percentile per-packet one-way delay: 141.855 ms

Loss rate: 2.97%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-17 06:38:15

End at: 2017-11-17 06:38:45

Below is generated by plot.py at 2017-11-17 11:19:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.92 Mbit/s

95th percentile per-packet one-way delay: 163.832 ms

Loss rate: 1.72%

-- Flow 1:

Average throughput: 19.31 Mbit/s

95th percentile per-packet one-way delay: 163.424 ms

Loss rate: 1.35%

-- Flow 2:

Average throughput: 24.02 Mbit/s

95th percentile per-packet one-way delay: 163.620 ms

Loss rate: 1.44%

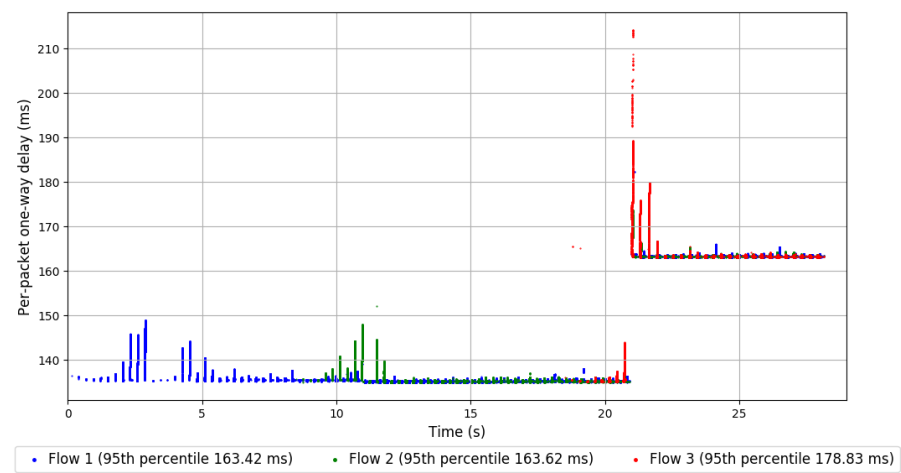
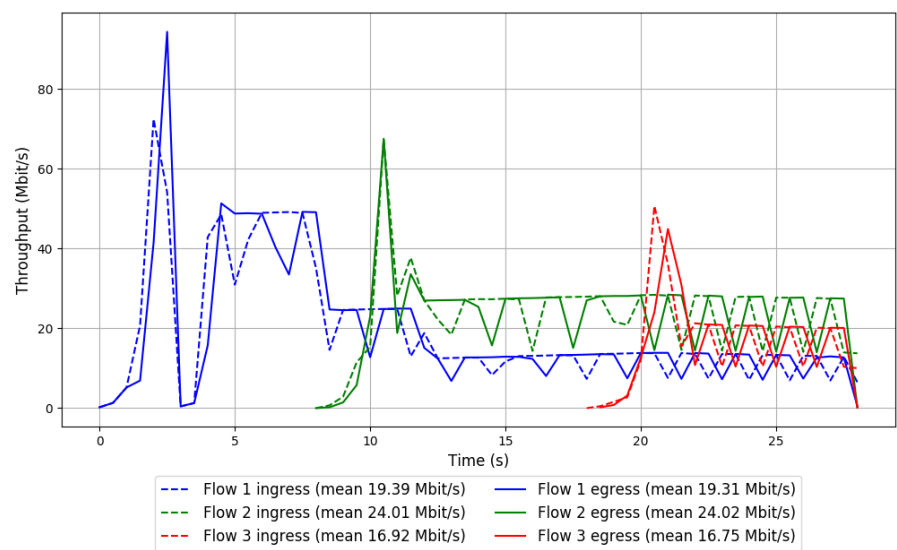
-- Flow 3:

Average throughput: 16.75 Mbit/s

95th percentile per-packet one-way delay: 178.832 ms

Loss rate: 3.71%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-17 06:51:39

End at: 2017-11-17 06:52:09

Below is generated by plot.py at 2017-11-17 11:19:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.83 Mbit/s

95th percentile per-packet one-way delay: 163.998 ms

Loss rate: 2.19%

-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 163.633 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 15.60 Mbit/s

95th percentile per-packet one-way delay: 163.556 ms

Loss rate: 1.53%

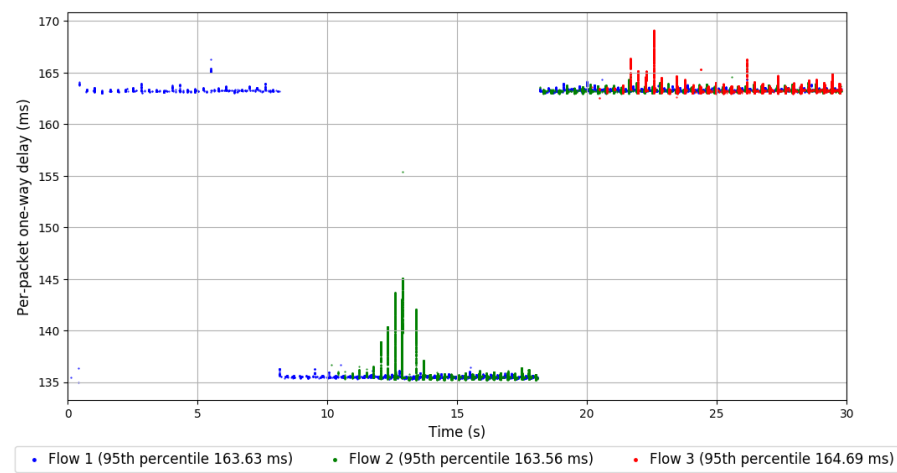
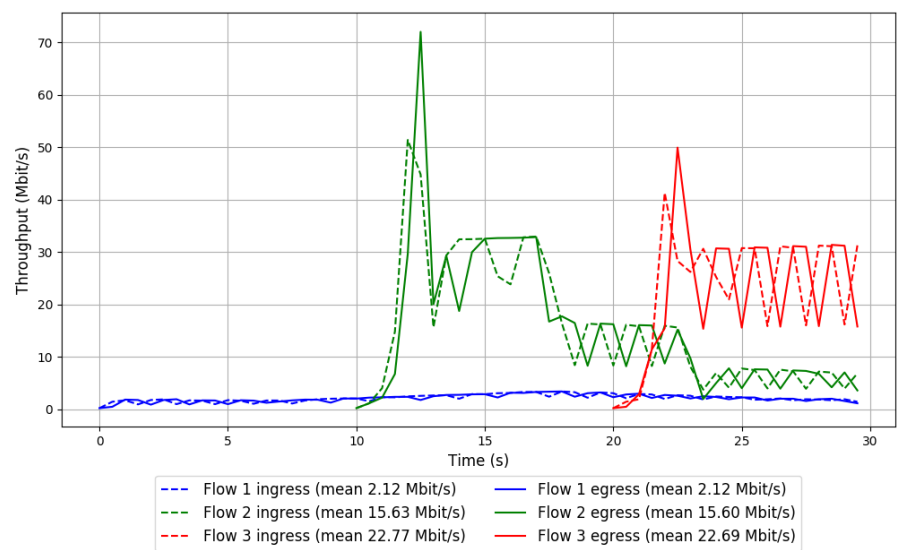
-- Flow 3:

Average throughput: 22.69 Mbit/s

95th percentile per-packet one-way delay: 164.685 ms

Loss rate: 3.48%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-17 07:05:08

End at: 2017-11-17 07:05:38

Below is generated by plot.py at 2017-11-17 11:19:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.59 Mbit/s

95th percentile per-packet one-way delay: 141.288 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 30.71 Mbit/s

95th percentile per-packet one-way delay: 138.574 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 50.49 Mbit/s

95th percentile per-packet one-way delay: 142.816 ms

Loss rate: 0.94%

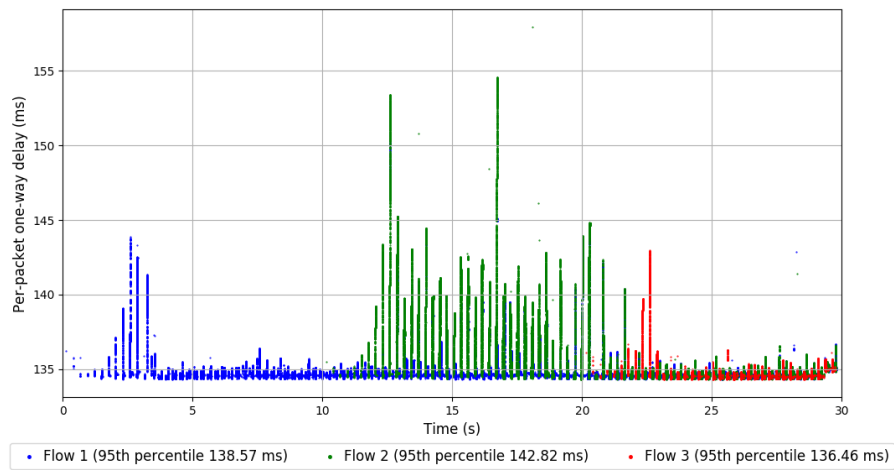
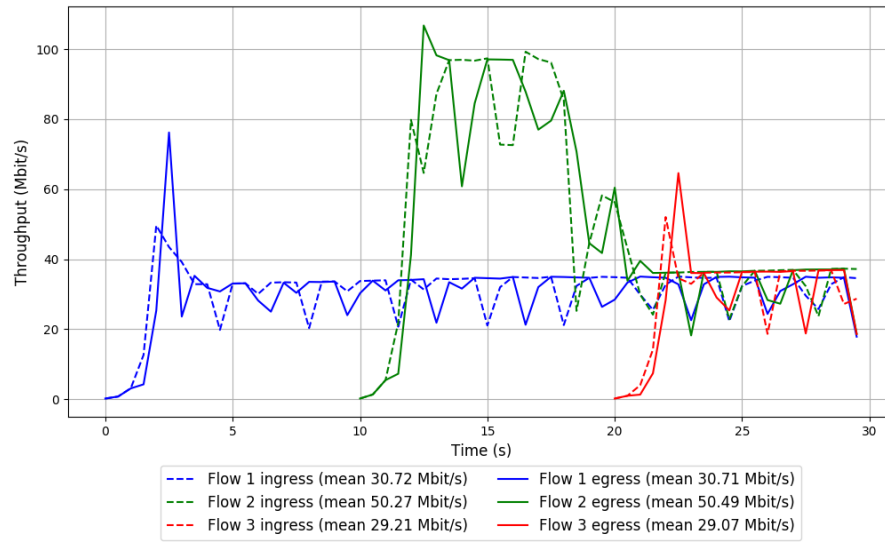
-- Flow 3:

Average throughput: 29.07 Mbit/s

95th percentile per-packet one-way delay: 136.456 ms

Loss rate: 3.21%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-17 07:19:22

End at: 2017-11-17 07:19:52

Below is generated by plot.py at 2017-11-17 11:19:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.86 Mbit/s

95th percentile per-packet one-way delay: 138.416 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 14.89 Mbit/s

95th percentile per-packet one-way delay: 138.651 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 27.48 Mbit/s

95th percentile per-packet one-way delay: 138.137 ms

Loss rate: 1.43%

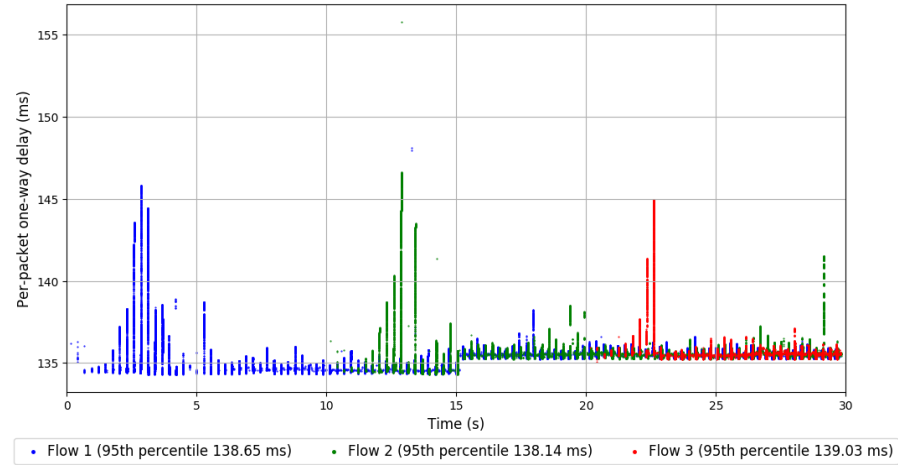
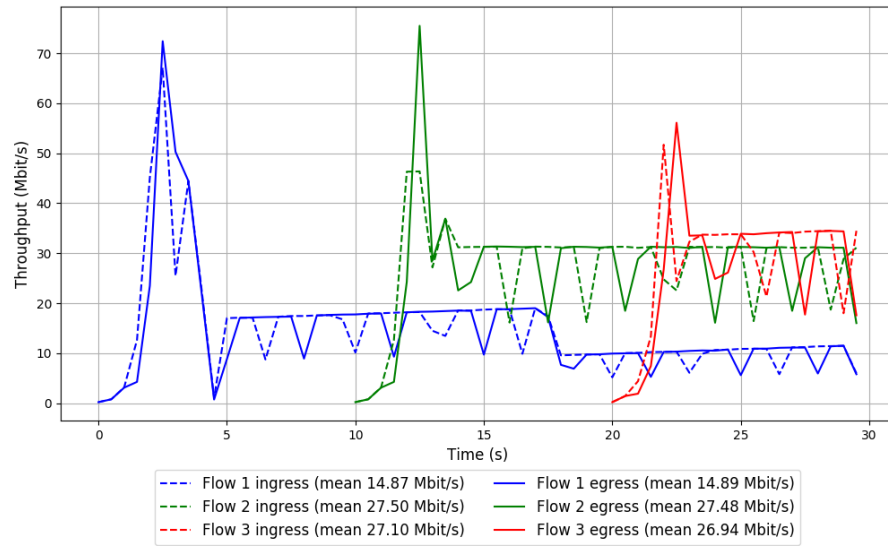
-- Flow 3:

Average throughput: 26.94 Mbit/s

95th percentile per-packet one-way delay: 139.032 ms

Loss rate: 3.31%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-17 07:33:16

End at: 2017-11-17 07:33:46

Below is generated by plot.py at 2017-11-17 11:19:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.38 Mbit/s

95th percentile per-packet one-way delay: 137.831 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 19.18 Mbit/s

95th percentile per-packet one-way delay: 136.512 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 46.19 Mbit/s

95th percentile per-packet one-way delay: 137.125 ms

Loss rate: 1.49%

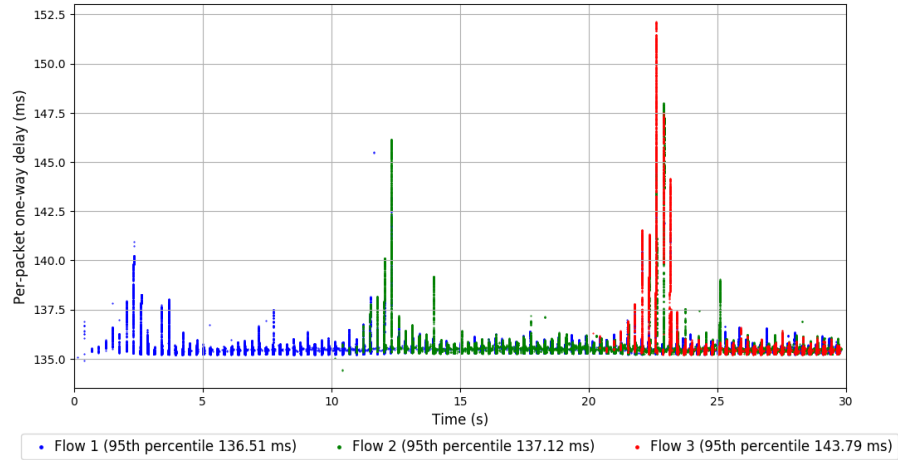
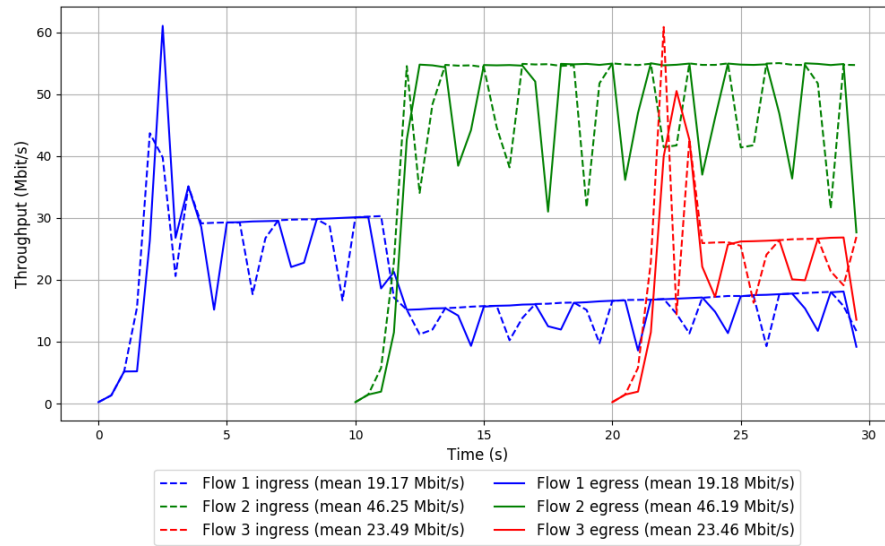
-- Flow 3:

Average throughput: 23.46 Mbit/s

95th percentile per-packet one-way delay: 143.788 ms

Loss rate: 2.90%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-17 07:46:49

End at: 2017-11-17 07:47:19

Below is generated by plot.py at 2017-11-17 11:19:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.23 Mbit/s

95th percentile per-packet one-way delay: 138.367 ms

Loss rate: 1.93%

-- Flow 1:

Average throughput: 10.78 Mbit/s

95th percentile per-packet one-way delay: 139.265 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 135.715 ms

Loss rate: 2.72%

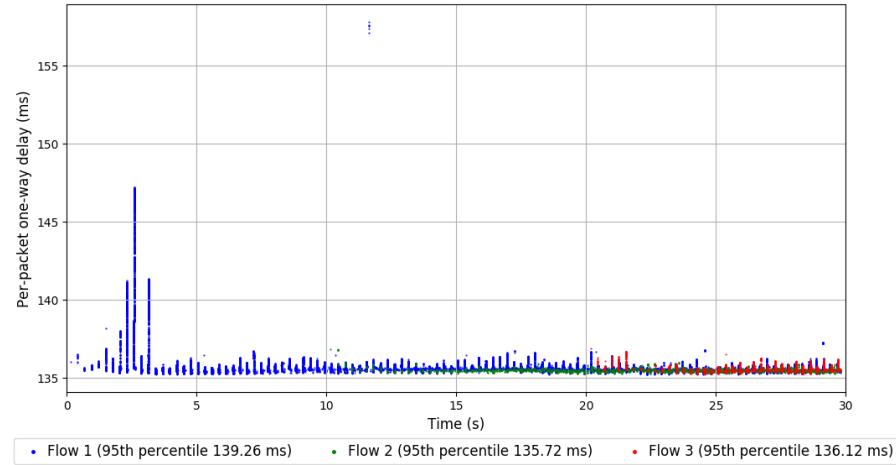
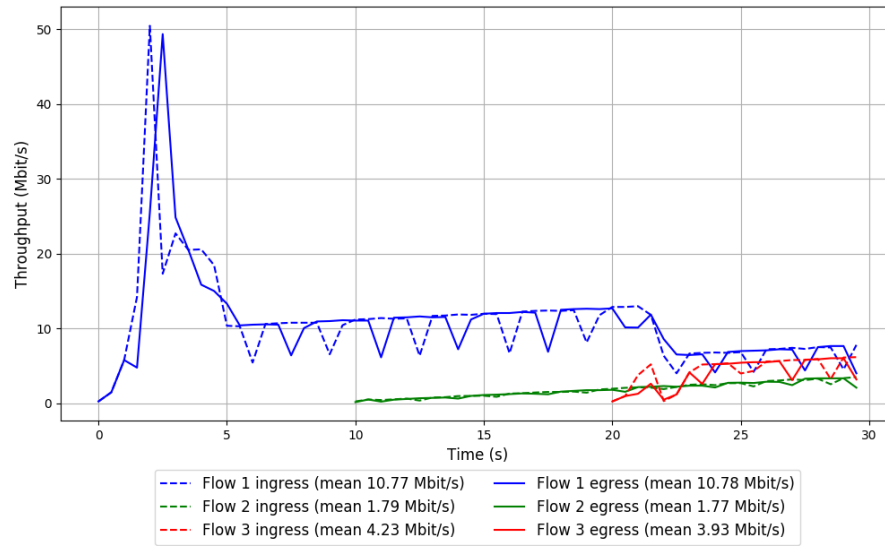
-- Flow 3:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 136.123 ms

Loss rate: 9.59%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-17 08:00:55

End at: 2017-11-17 08:01:25

Below is generated by plot.py at 2017-11-17 11:19:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.60 Mbit/s

95th percentile per-packet one-way delay: 138.437 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 27.09 Mbit/s

95th percentile per-packet one-way delay: 137.739 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 29.56 Mbit/s

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

Loss rate: 1.33%

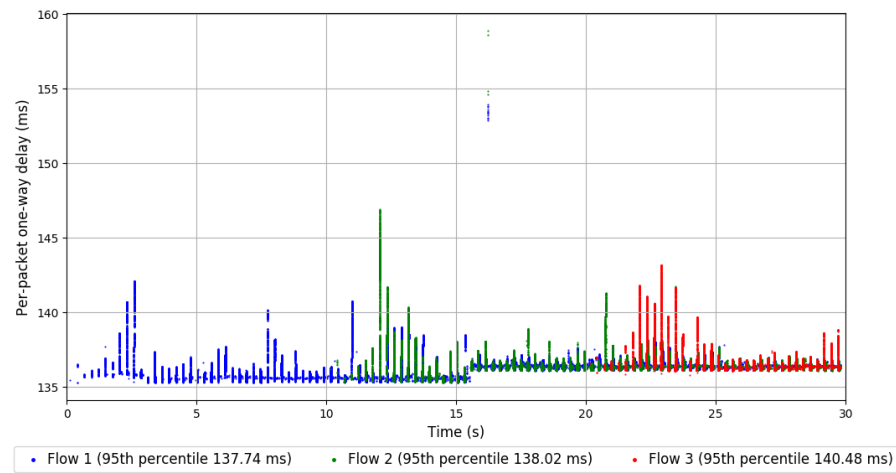
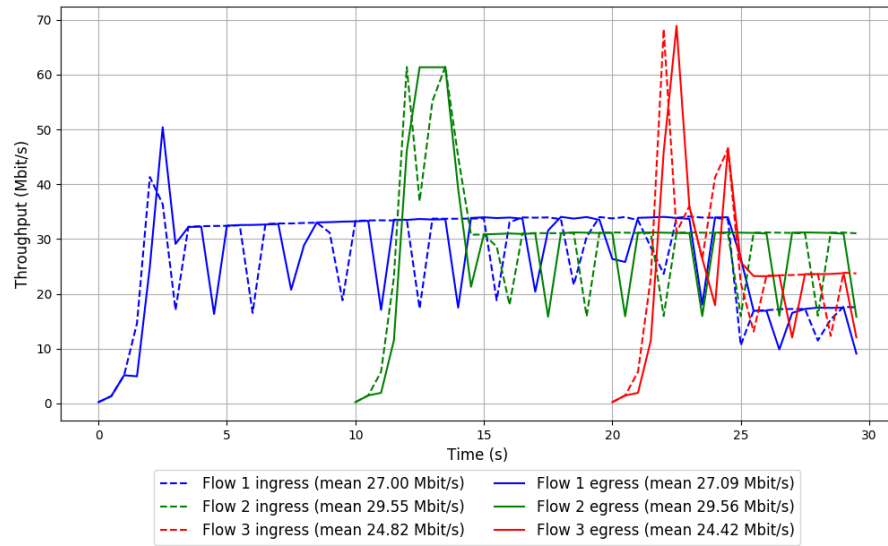
-- Flow 3:

Average throughput: 24.42 Mbit/s

95th percentile per-packet one-way delay: 140.477 ms

Loss rate: 4.30%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-17 08:14:47

End at: 2017-11-17 08:15:17

Below is generated by plot.py at 2017-11-17 11:19:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.86 Mbit/s

95th percentile per-packet one-way delay: 138.767 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 32.38 Mbit/s

95th percentile per-packet one-way delay: 138.002 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 34.17 Mbit/s

95th percentile per-packet one-way delay: 137.883 ms

Loss rate: 0.94%

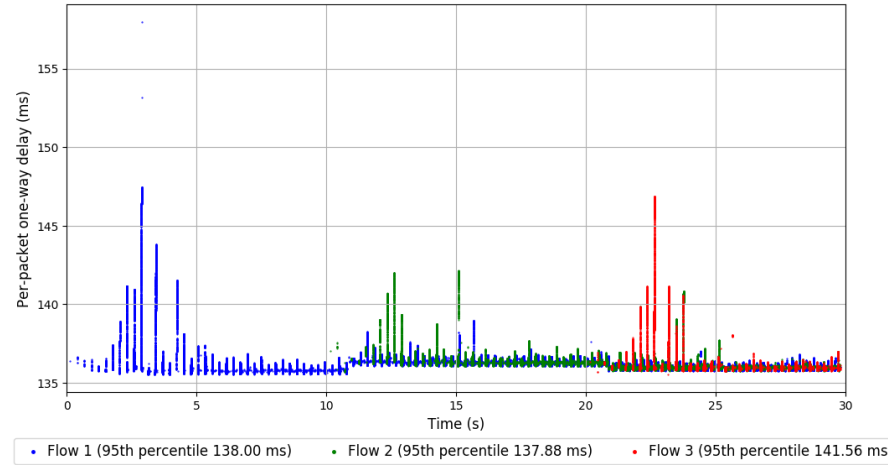
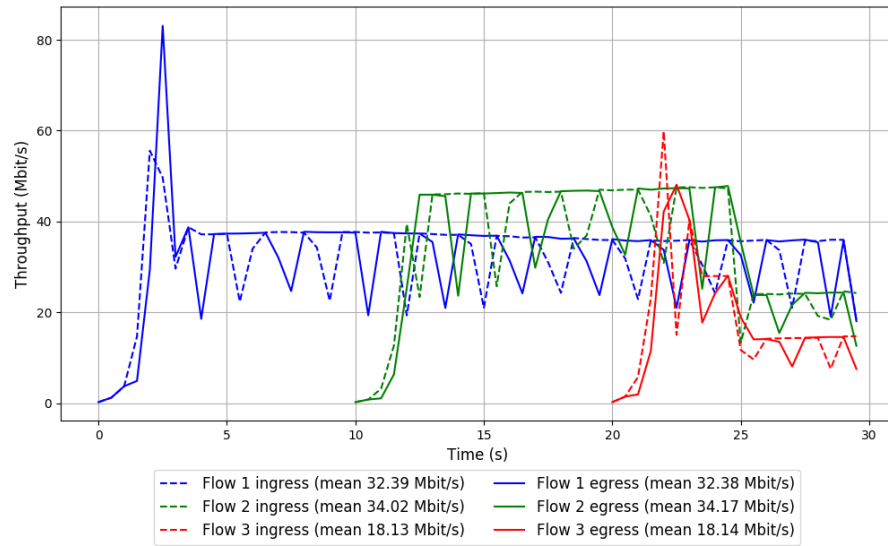
-- Flow 3:

Average throughput: 18.14 Mbit/s

95th percentile per-packet one-way delay: 141.564 ms

Loss rate: 2.68%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-11-17 06:12:06

End at: 2017-11-17 06:12:36

Below is generated by plot.py at 2017-11-17 11:19:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 208.72 Mbit/s

95th percentile per-packet one-way delay: 220.806 ms

Loss rate: 2.98%

-- Flow 1:

Average throughput: 65.26 Mbit/s

95th percentile per-packet one-way delay: 163.724 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 170.07 Mbit/s

95th percentile per-packet one-way delay: 257.562 ms

Loss rate: 4.05%

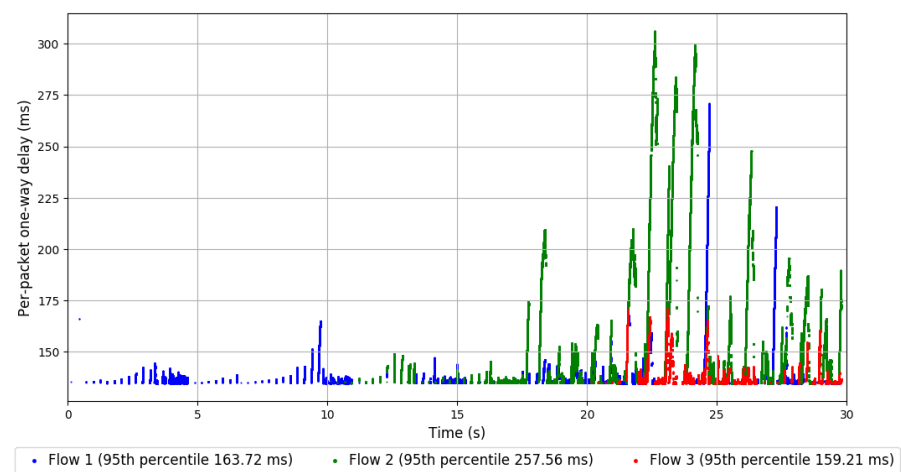
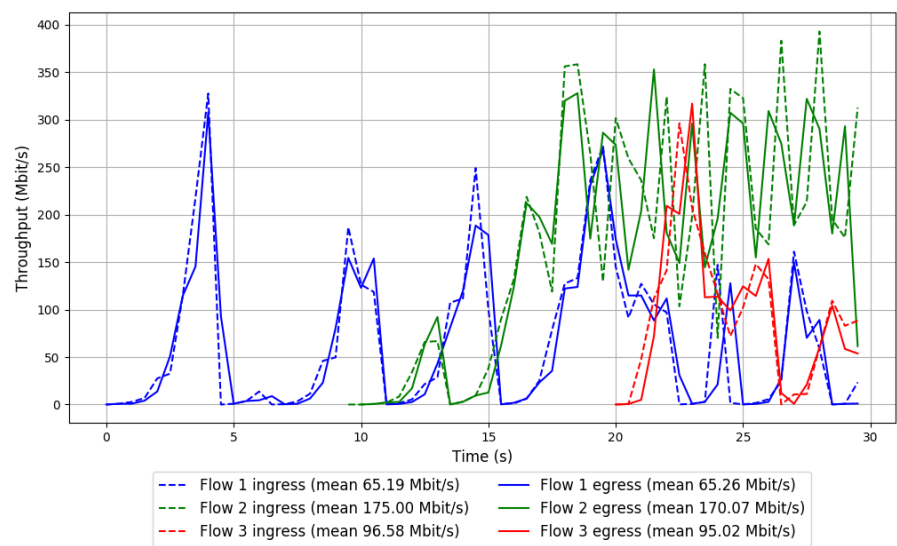
-- Flow 3:

Average throughput: 95.02 Mbit/s

95th percentile per-packet one-way delay: 159.210 ms

Loss rate: 3.40%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-17 06:25:42

End at: 2017-11-17 06:26:12

Below is generated by plot.py at 2017-11-17 11:19:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 113.85 Mbit/s

95th percentile per-packet one-way delay: 216.443 ms

Loss rate: 3.00%

-- Flow 1:

Average throughput: 70.85 Mbit/s

95th percentile per-packet one-way delay: 247.322 ms

Loss rate: 2.20%

-- Flow 2:

Average throughput: 52.86 Mbit/s

95th percentile per-packet one-way delay: 166.006 ms

Loss rate: 4.05%

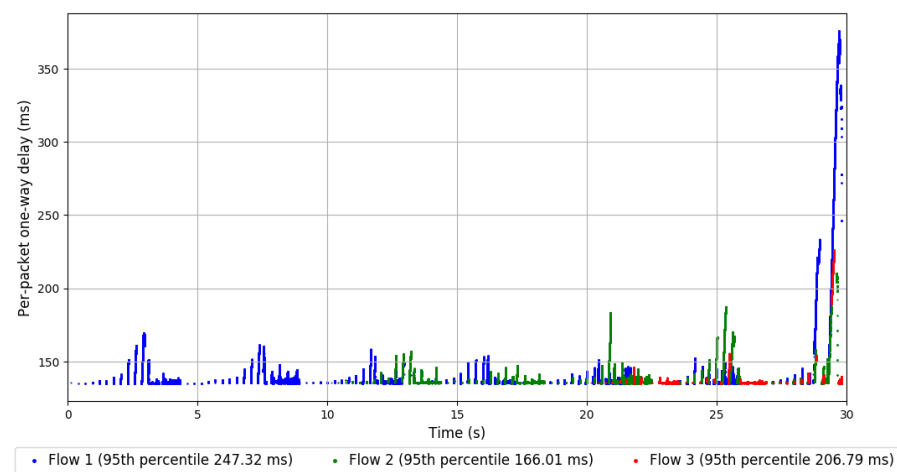
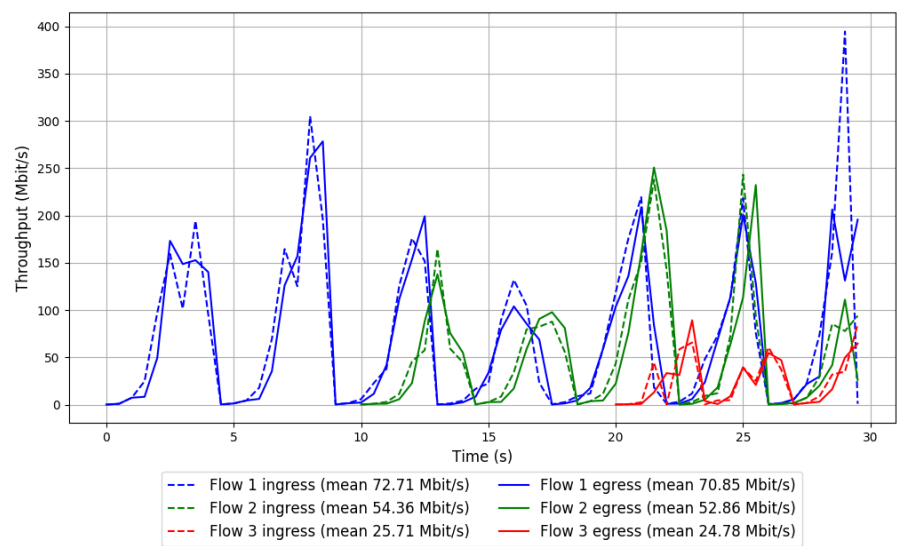
-- Flow 3:

Average throughput: 24.78 Mbit/s

95th percentile per-packet one-way delay: 206.793 ms

Loss rate: 5.32%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-17 06:39:07

End at: 2017-11-17 06:39:37

Below is generated by plot.py at 2017-11-17 11:19:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.84 Mbit/s

95th percentile per-packet one-way delay: 263.760 ms

Loss rate: 3.34%

-- Flow 1:

Average throughput: 65.30 Mbit/s

95th percentile per-packet one-way delay: 274.621 ms

Loss rate: 3.06%

-- Flow 2:

Average throughput: 84.00 Mbit/s

95th percentile per-packet one-way delay: 209.960 ms

Loss rate: 3.59%

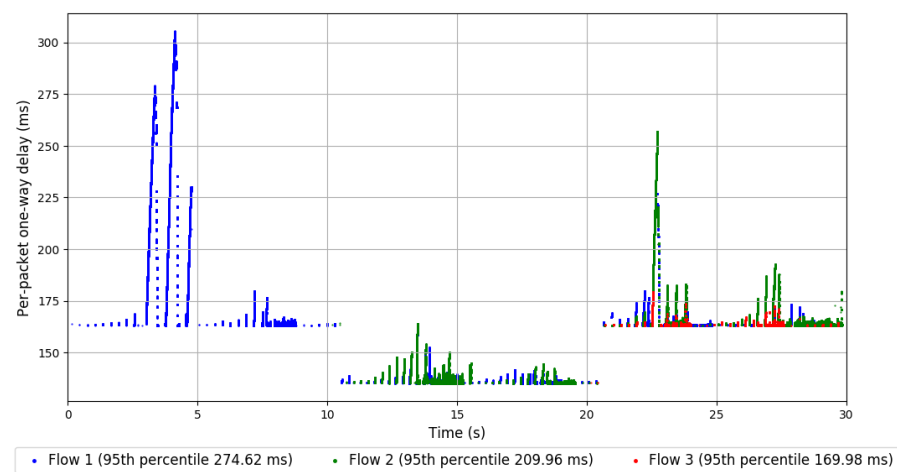
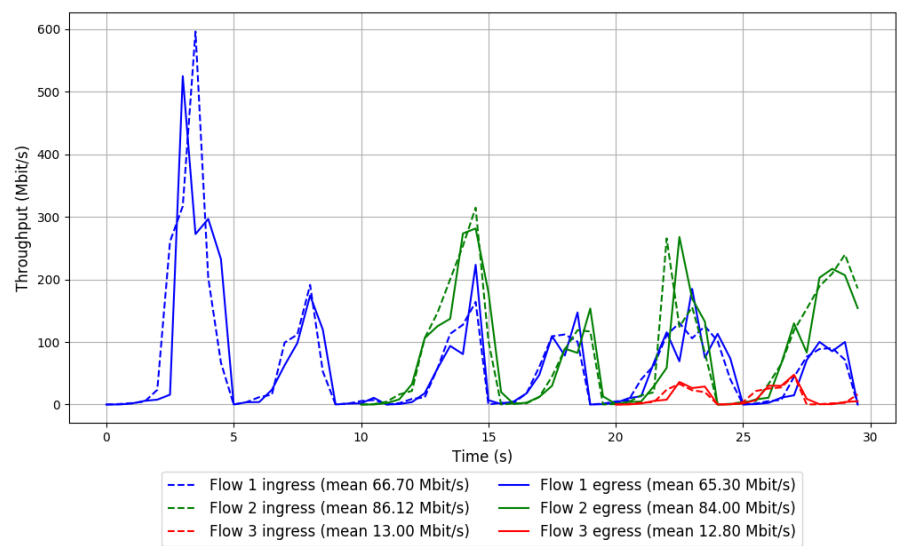
-- Flow 3:

Average throughput: 12.80 Mbit/s

95th percentile per-packet one-way delay: 169.977 ms

Loss rate: 4.31%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-17 06:52:30

End at: 2017-11-17 06:53:00

Below is generated by plot.py at 2017-11-17 11:19:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.70 Mbit/s

95th percentile per-packet one-way delay: 192.221 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 58.85 Mbit/s

95th percentile per-packet one-way delay: 204.826 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 47.60 Mbit/s

95th percentile per-packet one-way delay: 173.014 ms

Loss rate: 1.08%

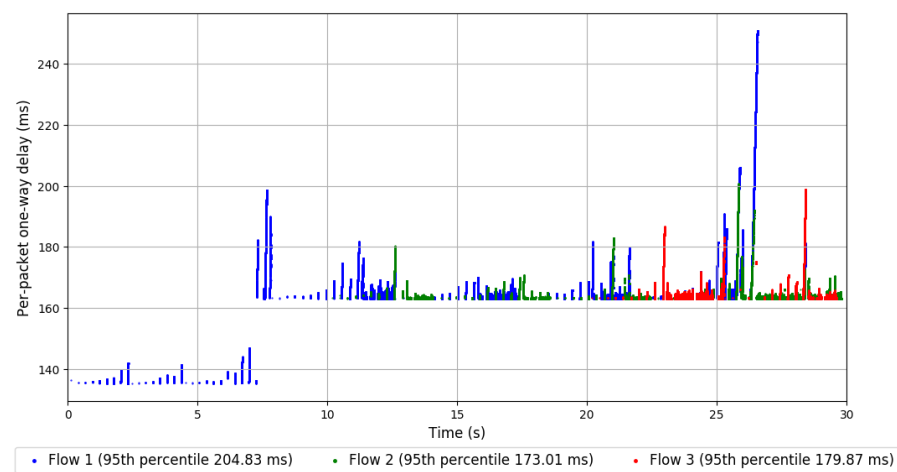
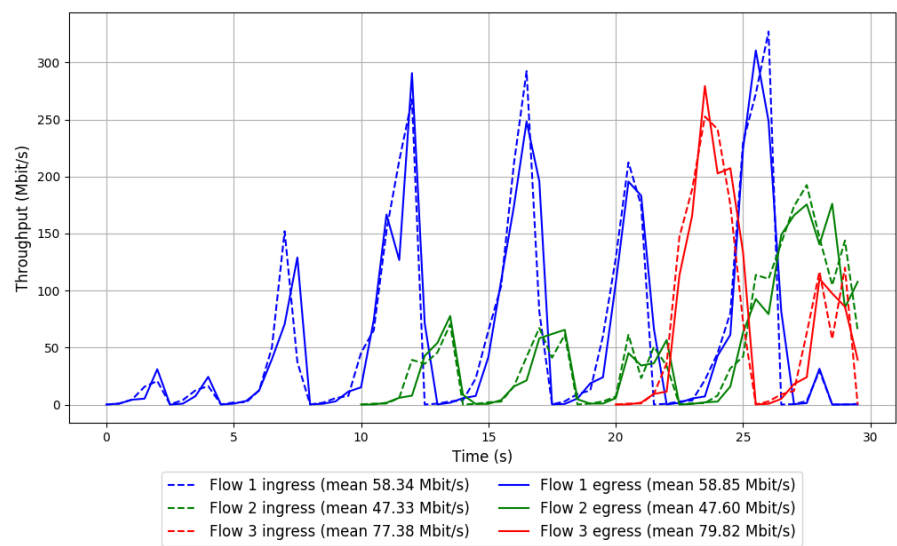
-- Flow 3:

Average throughput: 79.82 Mbit/s

95th percentile per-packet one-way delay: 179.866 ms

Loss rate: 0.03%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-17 07:06:03

End at: 2017-11-17 07:06:33

Below is generated by plot.py at 2017-11-17 11:20:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 305.93 Mbit/s

95th percentile per-packet one-way delay: 292.743 ms

Loss rate: 4.62%

-- Flow 1:

Average throughput: 208.94 Mbit/s

95th percentile per-packet one-way delay: 311.436 ms

Loss rate: 4.48%

-- Flow 2:

Average throughput: 140.82 Mbit/s

95th percentile per-packet one-way delay: 234.418 ms

Loss rate: 4.29%

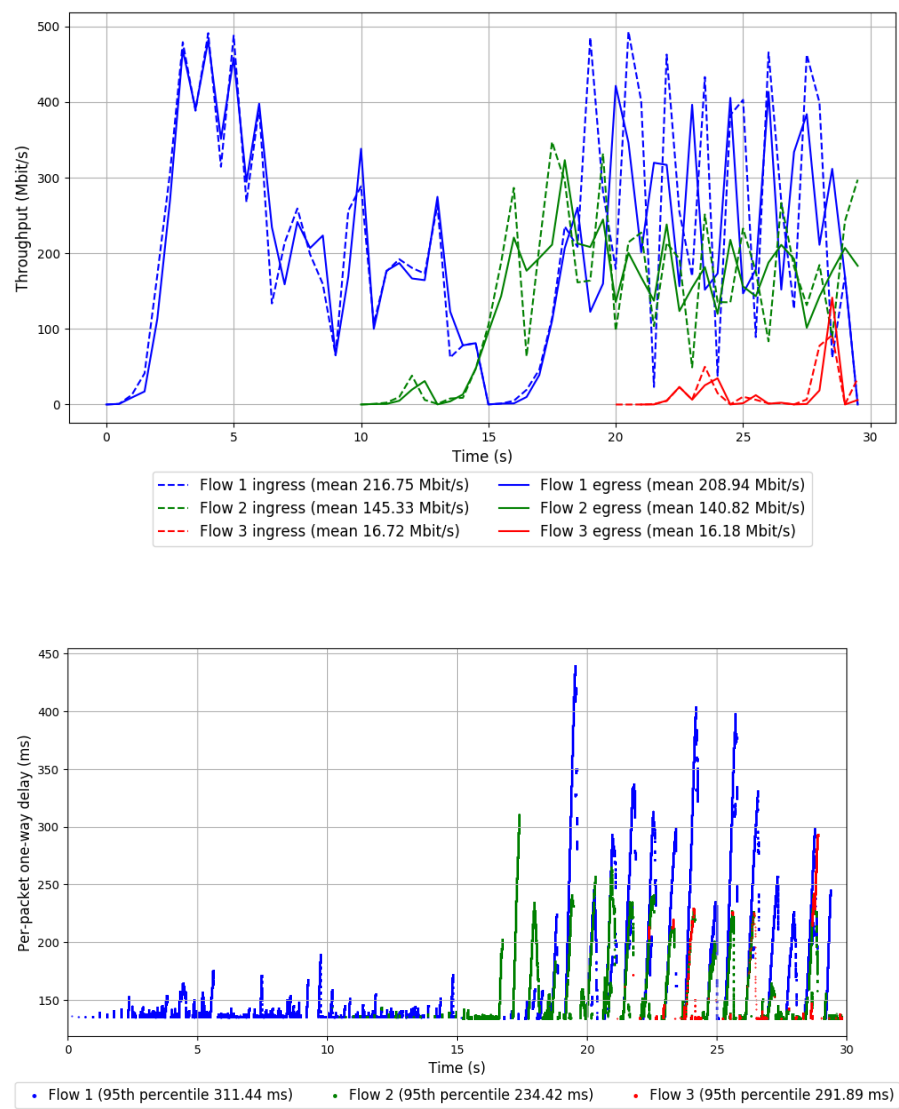
-- Flow 3:

Average throughput: 16.18 Mbit/s

95th percentile per-packet one-way delay: 291.890 ms

Loss rate: 15.45%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-17 07:20:15

End at: 2017-11-17 07:20:45

Below is generated by plot.py at 2017-11-17 11:20:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.33 Mbit/s

95th percentile per-packet one-way delay: 199.750 ms

Loss rate: 2.17%

-- Flow 1:

Average throughput: 109.14 Mbit/s

95th percentile per-packet one-way delay: 175.857 ms

Loss rate: 1.70%

-- Flow 2:

Average throughput: 188.43 Mbit/s

95th percentile per-packet one-way delay: 212.634 ms

Loss rate: 2.73%

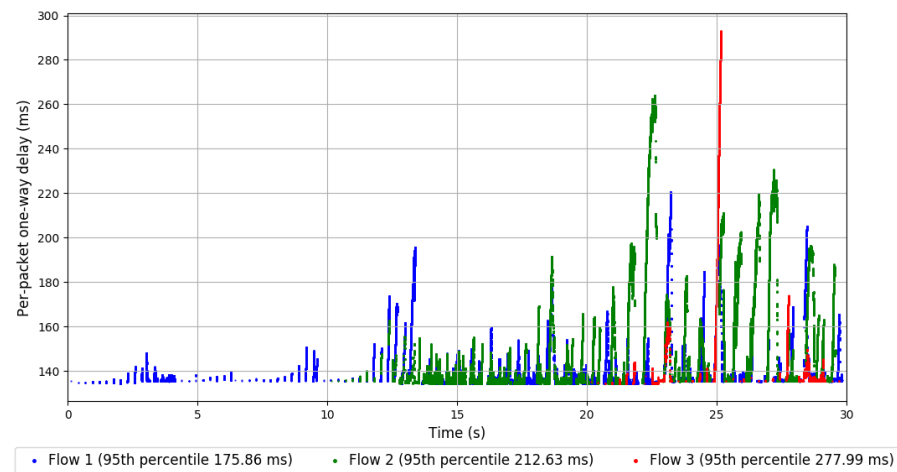
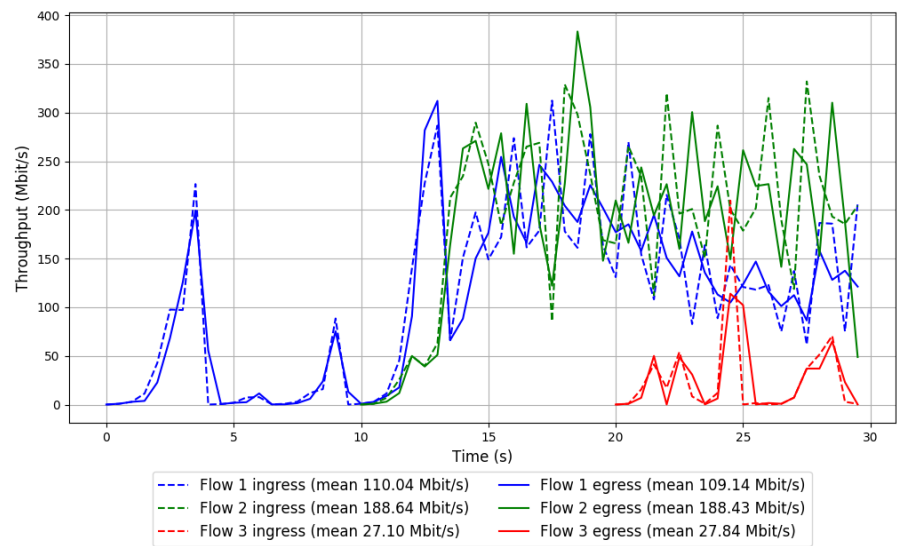
-- Flow 3:

Average throughput: 27.84 Mbit/s

95th percentile per-packet one-way delay: 277.989 ms

Loss rate: 0.11%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-17 07:34:09

End at: 2017-11-17 07:34:39

Below is generated by plot.py at 2017-11-17 11:21:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 267.99 Mbit/s

95th percentile per-packet one-way delay: 284.987 ms

Loss rate: 6.29%

-- Flow 1:

Average throughput: 219.35 Mbit/s

95th percentile per-packet one-way delay: 293.691 ms

Loss rate: 6.89%

-- Flow 2:

Average throughput: 52.10 Mbit/s

95th percentile per-packet one-way delay: 207.307 ms

Loss rate: 2.61%

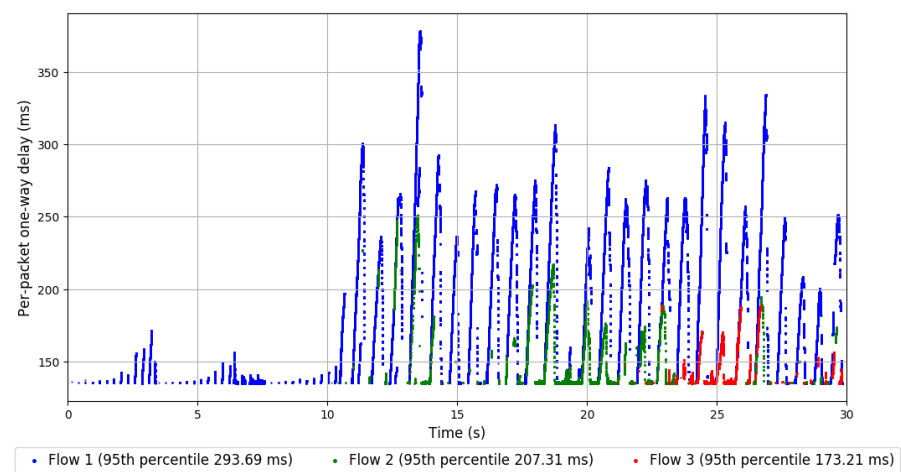
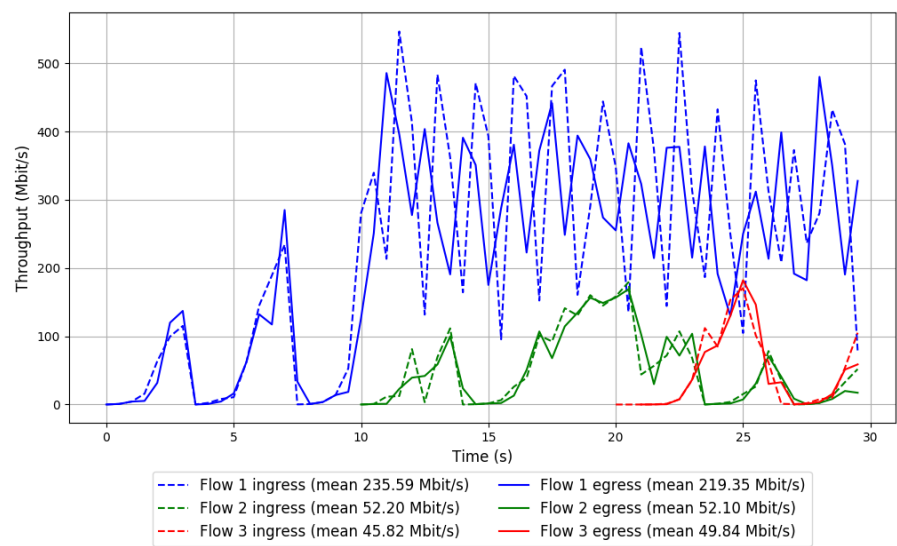
-- Flow 3:

Average throughput: 49.84 Mbit/s

95th percentile per-packet one-way delay: 173.207 ms

Loss rate: 5.39%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-17 07:47:39

End at: 2017-11-17 07:48:09

Below is generated by plot.py at 2017-11-17 11:22:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.75 Mbit/s

95th percentile per-packet one-way delay: 206.912 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 170.96 Mbit/s

95th percentile per-packet one-way delay: 202.866 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 208.88 Mbit/s

95th percentile per-packet one-way delay: 213.826 ms

Loss rate: 1.95%

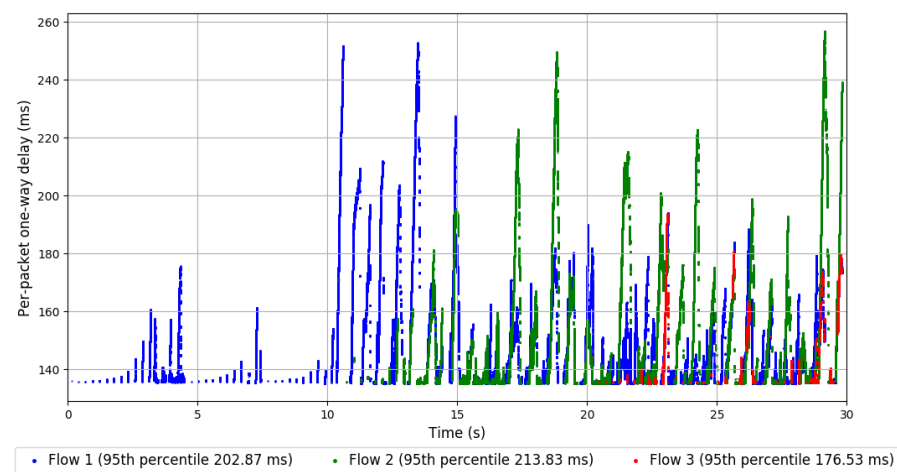
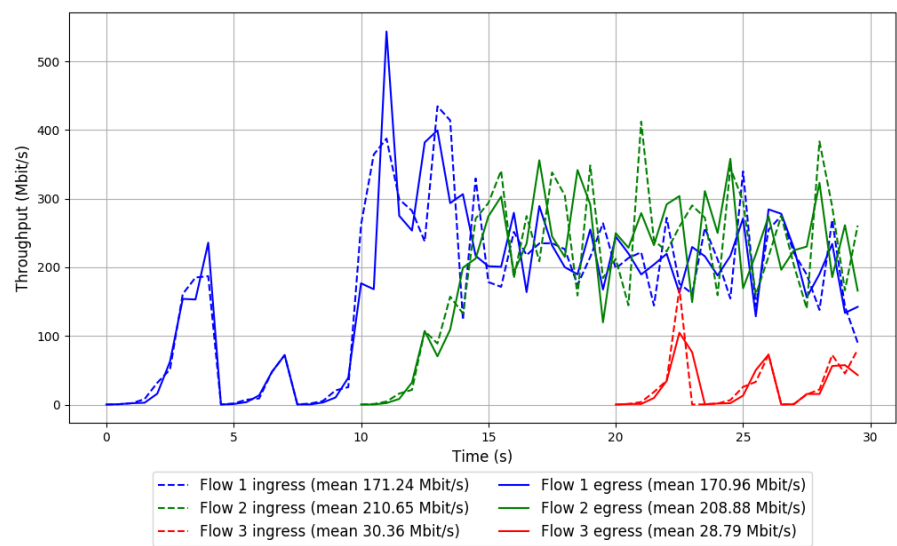
-- Flow 3:

Average throughput: 28.79 Mbit/s

95th percentile per-packet one-way delay: 176.532 ms

Loss rate: 7.88%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-17 08:01:48

End at: 2017-11-17 08:02:18

Below is generated by plot.py at 2017-11-17 11:22:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 238.23 Mbit/s

95th percentile per-packet one-way delay: 179.971 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 168.69 Mbit/s

95th percentile per-packet one-way delay: 193.700 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 41.94 Mbit/s

95th percentile per-packet one-way delay: 142.109 ms

Loss rate: 0.65%

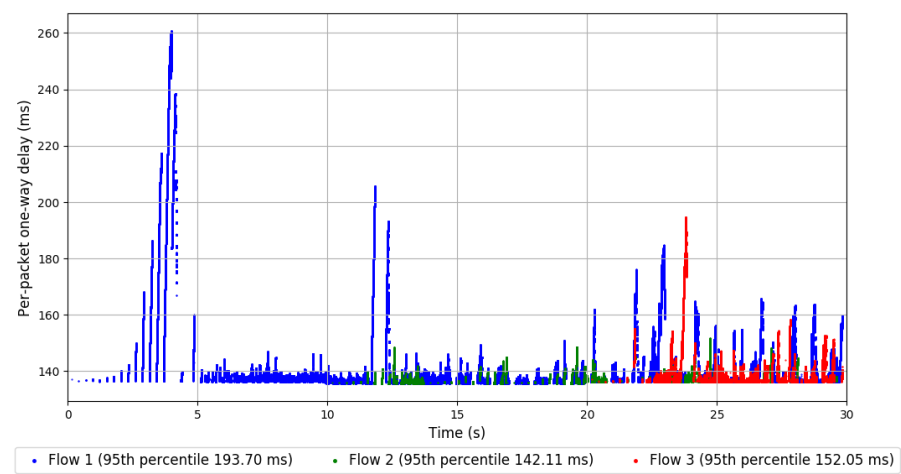
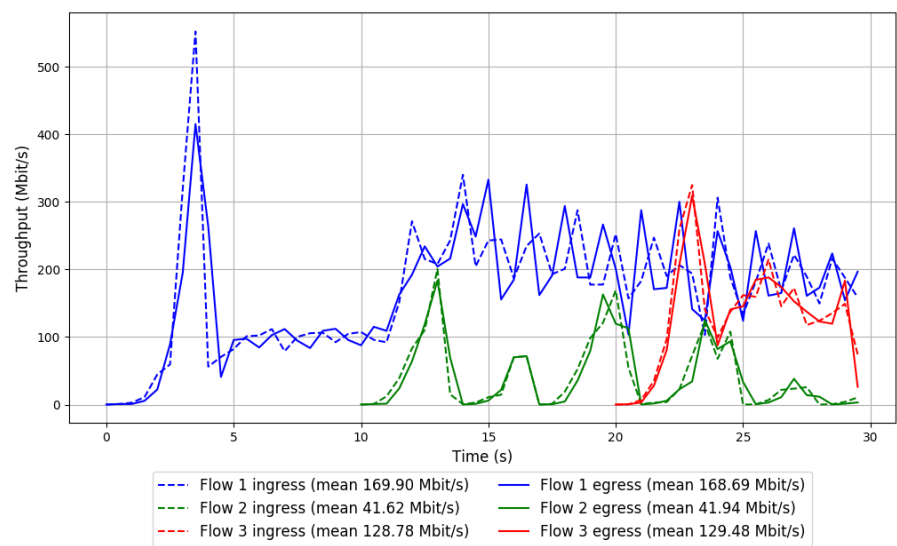
-- Flow 3:

Average throughput: 129.48 Mbit/s

95th percentile per-packet one-way delay: 152.049 ms

Loss rate: 2.21%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-17 08:15:40

End at: 2017-11-17 08:16:10

Below is generated by plot.py at 2017-11-17 11:22:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 194.30 Mbit/s

95th percentile per-packet one-way delay: 320.525 ms

Loss rate: 7.47%

-- Flow 1:

Average throughput: 118.88 Mbit/s

95th percentile per-packet one-way delay: 165.166 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 65.32 Mbit/s

95th percentile per-packet one-way delay: 159.010 ms

Loss rate: 5.14%

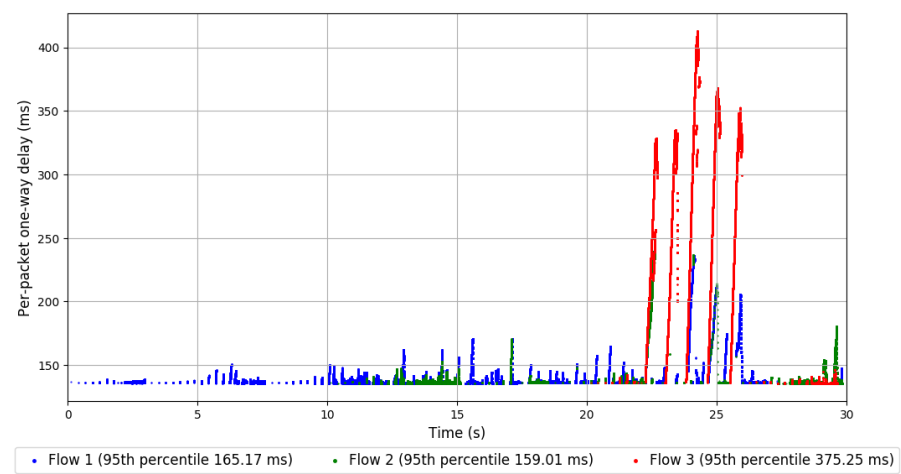
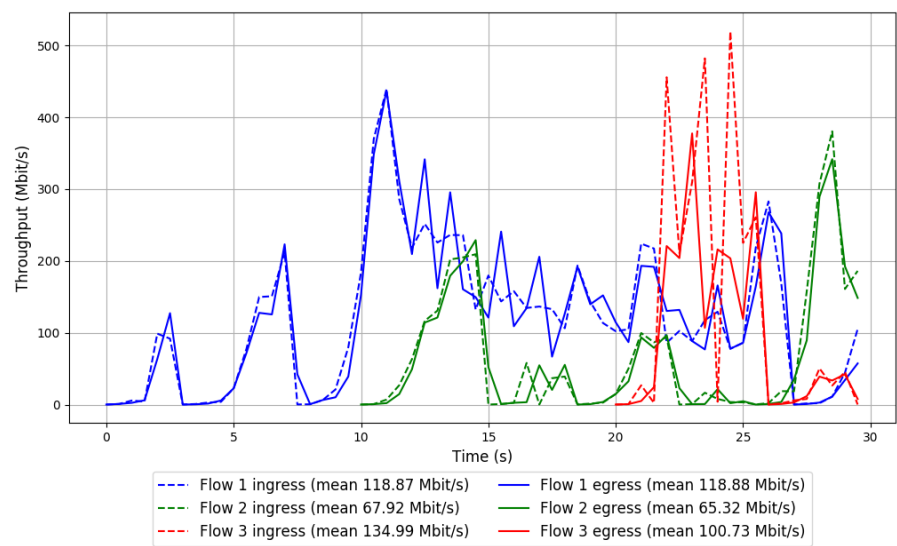
-- Flow 3:

Average throughput: 100.73 Mbit/s

95th percentile per-packet one-way delay: 375.248 ms

Loss rate: 27.47%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-11-17 06:18:48

End at: 2017-11-17 06:19:18

Below is generated by plot.py at 2017-11-17 11:22:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.49 Mbit/s

95th percentile per-packet one-way delay: 135.825 ms

Loss rate: 1.52%

-- Flow 1:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 135.901 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.43 Mbit/s

95th percentile per-packet one-way delay: 135.825 ms

Loss rate: 1.52%

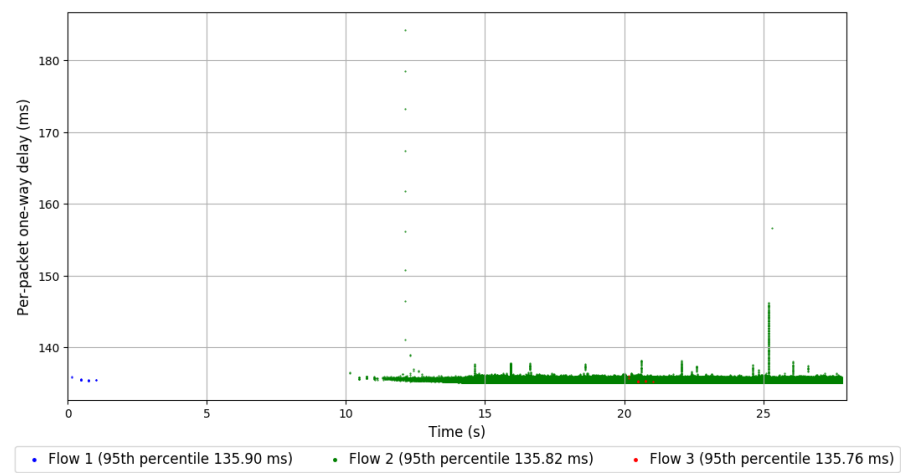
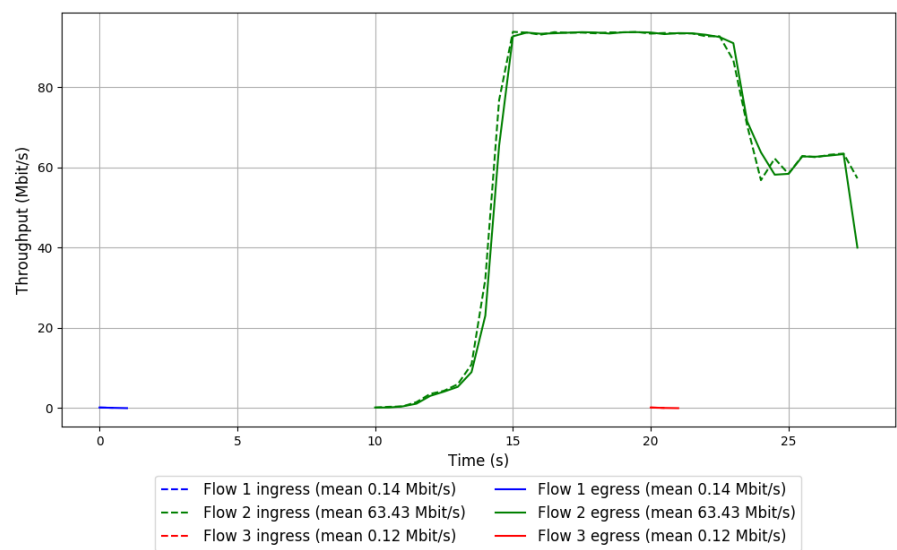
-- Flow 3:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 135.762 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-17 06:32:13

End at: 2017-11-17 06:32:43

Below is generated by plot.py at 2017-11-17 11:22:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.15 Mbit/s

95th percentile per-packet one-way delay: 136.022 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 53.01 Mbit/s

95th percentile per-packet one-way delay: 136.001 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 33.56 Mbit/s

95th percentile per-packet one-way delay: 135.416 ms

Loss rate: 0.38%

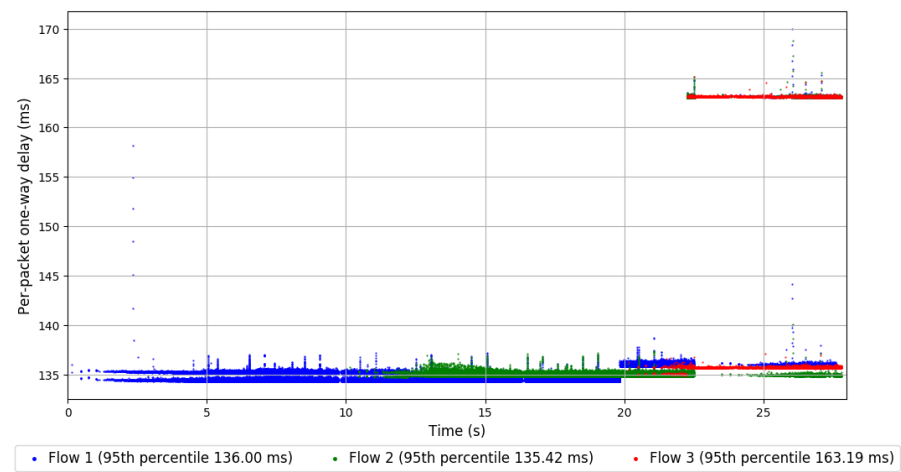
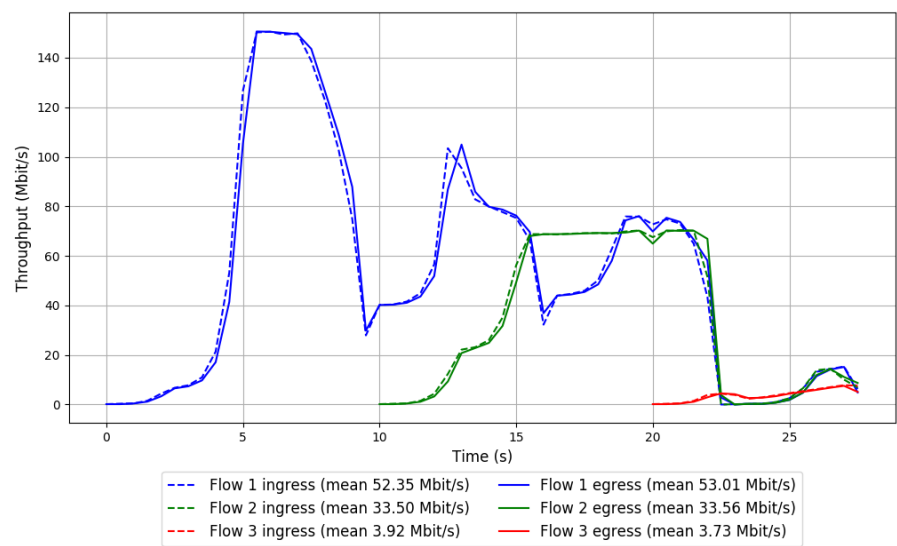
-- Flow 3:

Average throughput: 3.73 Mbit/s

95th percentile per-packet one-way delay: 163.195 ms

Loss rate: 8.20%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-17 06:45:44

End at: 2017-11-17 06:46:14

Below is generated by plot.py at 2017-11-17 11:22:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 29.20 Mbit/s

95th percentile per-packet one-way delay: 163.034 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 163.321 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.36 Mbit/s

95th percentile per-packet one-way delay: 135.859 ms

Loss rate: 0.52%

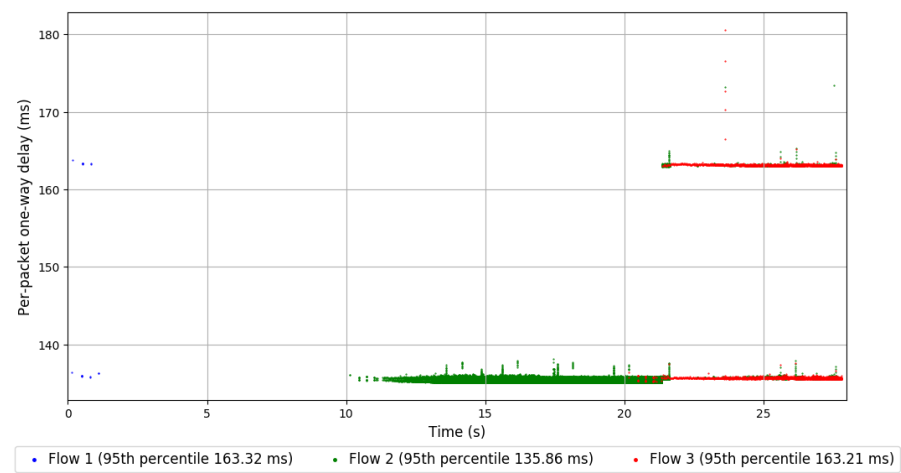
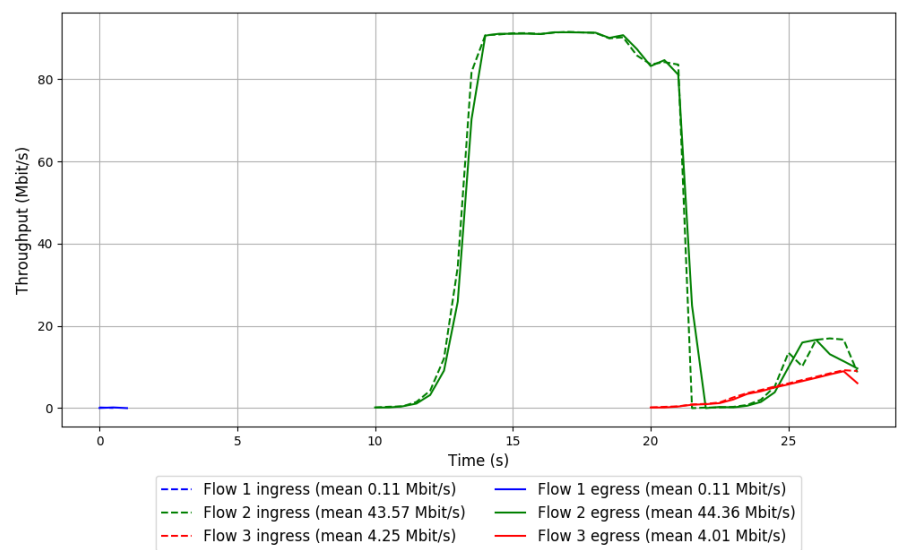
-- Flow 3:

Average throughput: 4.01 Mbit/s

95th percentile per-packet one-way delay: 163.214 ms

Loss rate: 8.91%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-17 06:59:08

End at: 2017-11-17 06:59:38

Below is generated by plot.py at 2017-11-17 11:22:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.80 Mbit/s

95th percentile per-packet one-way delay: 160.523 ms

Loss rate: 1.91%

-- Flow 1:

Average throughput: 48.73 Mbit/s

95th percentile per-packet one-way delay: 136.033 ms

Loss rate: 1.31%

-- Flow 2:

Average throughput: 40.77 Mbit/s

95th percentile per-packet one-way delay: 136.128 ms

Loss rate: 2.40%

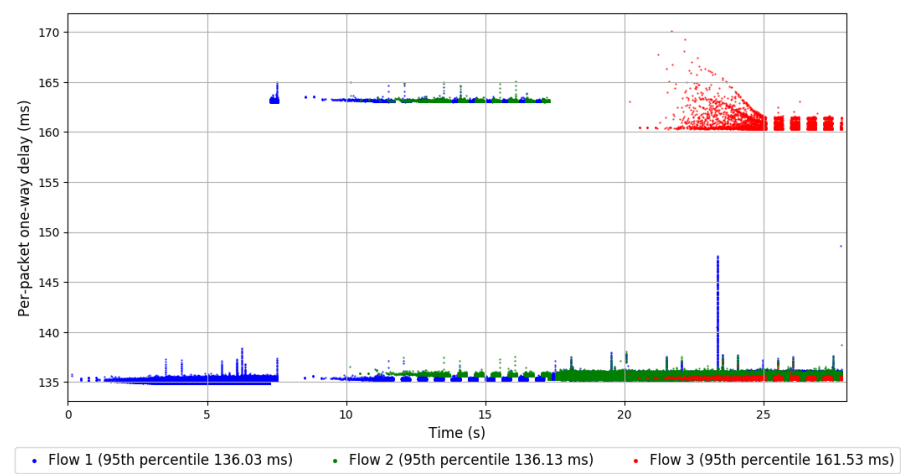
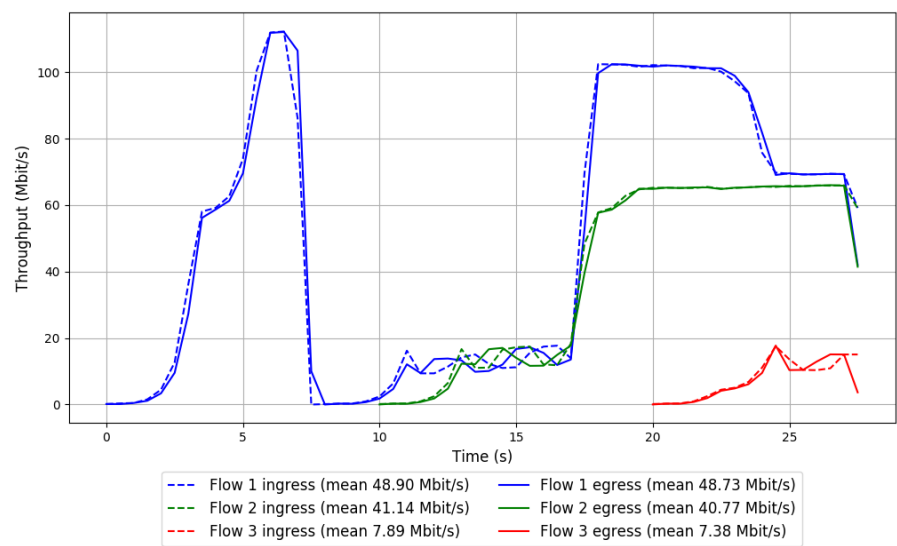
-- Flow 3:

Average throughput: 7.38 Mbit/s

95th percentile per-packet one-way delay: 161.532 ms

Loss rate: 9.15%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-17 07:12:55

End at: 2017-11-17 07:13:25

Below is generated by plot.py at 2017-11-17 11:24:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.05 Mbit/s

95th percentile per-packet one-way delay: 135.721 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 72.95 Mbit/s

95th percentile per-packet one-way delay: 135.393 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 51.11 Mbit/s

95th percentile per-packet one-way delay: 135.878 ms

Loss rate: 1.63%

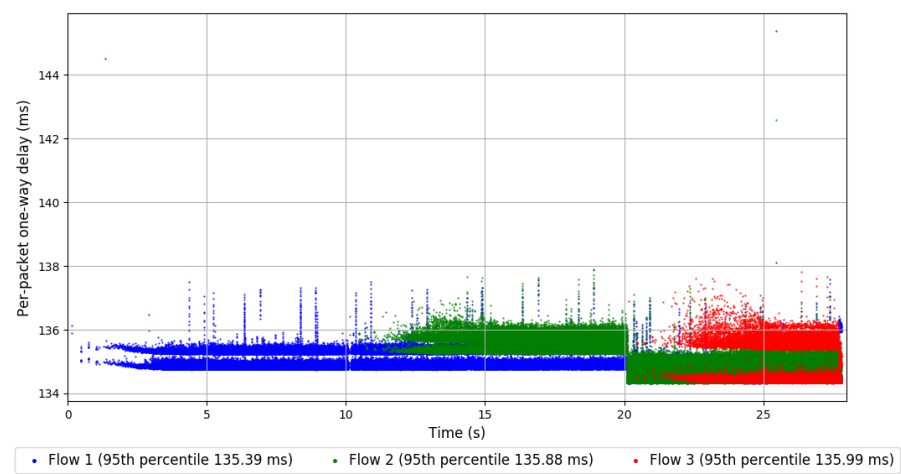
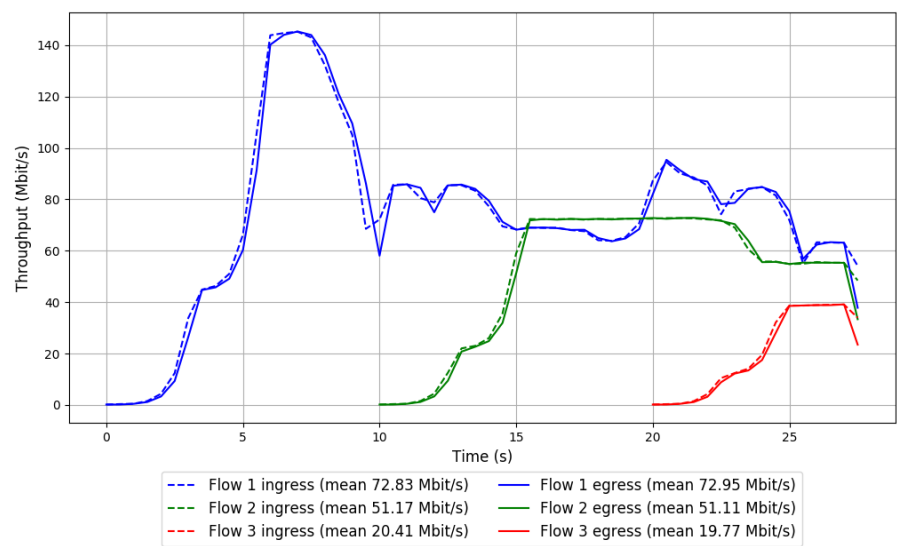
-- Flow 3:

Average throughput: 19.77 Mbit/s

95th percentile per-packet one-way delay: 135.988 ms

Loss rate: 6.47%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-17 07:27:01

End at: 2017-11-17 07:27:31

Below is generated by plot.py at 2017-11-17 11:24:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.69 Mbit/s

95th percentile per-packet one-way delay: 135.400 ms

Loss rate: 2.37%

-- Flow 1:

Average throughput: 61.18 Mbit/s

95th percentile per-packet one-way delay: 135.412 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 136.096 ms

Loss rate: 0.00%

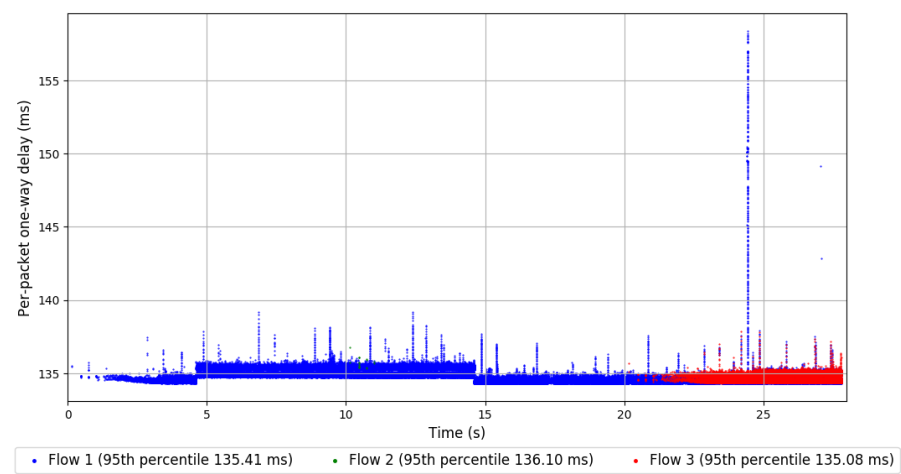
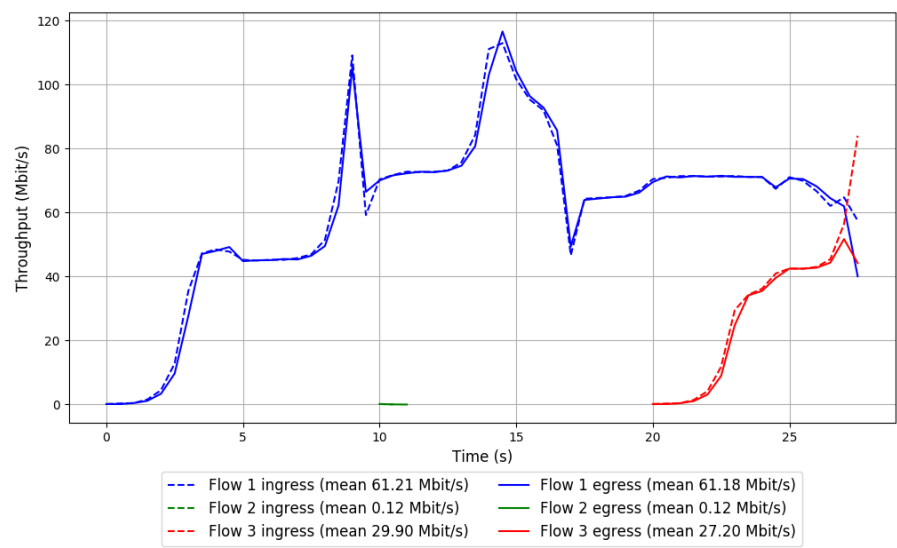
-- Flow 3:

Average throughput: 27.20 Mbit/s

95th percentile per-packet one-way delay: 135.081 ms

Loss rate: 12.11%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-17 07:40:51

End at: 2017-11-17 07:41:21

Below is generated by plot.py at 2017-11-17 11:24:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.65 Mbit/s

95th percentile per-packet one-way delay: 135.710 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 63.65 Mbit/s

95th percentile per-packet one-way delay: 135.710 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 136.212 ms

Loss rate: 0.00%

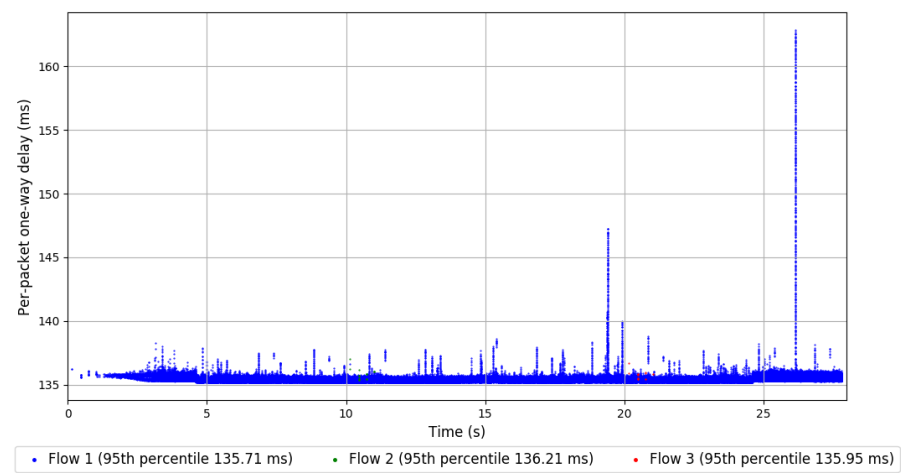
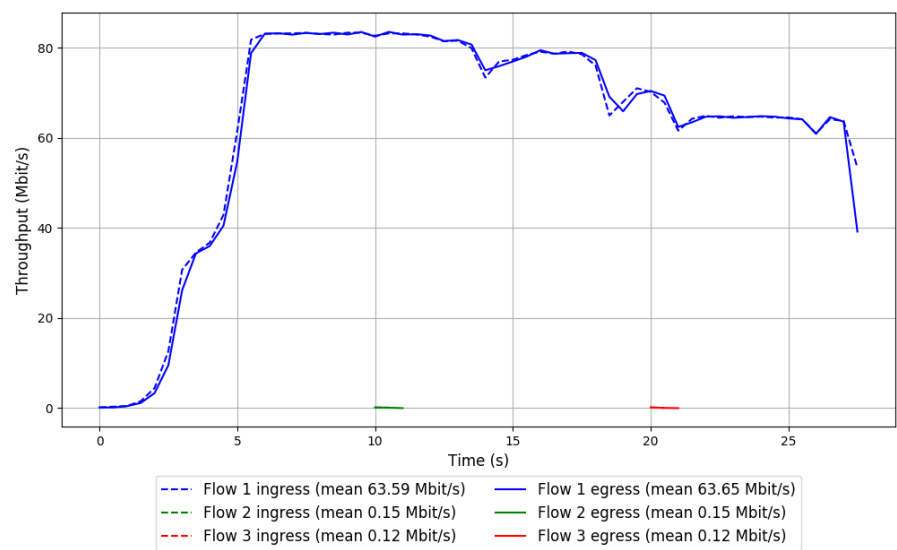
-- Flow 3:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 135.951 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-17 07:54:29

End at: 2017-11-17 07:54:59

Below is generated by plot.py at 2017-11-17 11:24:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 106.58 Mbit/s

95th percentile per-packet one-way delay: 135.787 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 67.27 Mbit/s

95th percentile per-packet one-way delay: 135.799 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 61.51 Mbit/s

95th percentile per-packet one-way delay: 135.756 ms

Loss rate: 1.66%

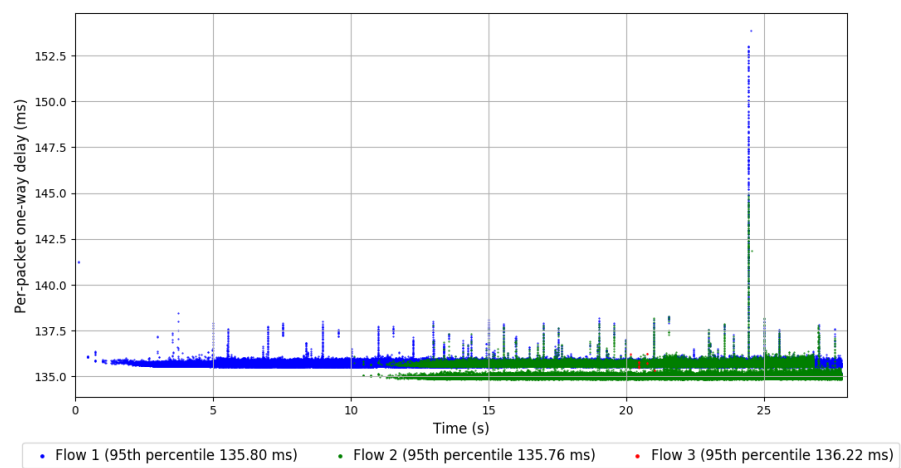
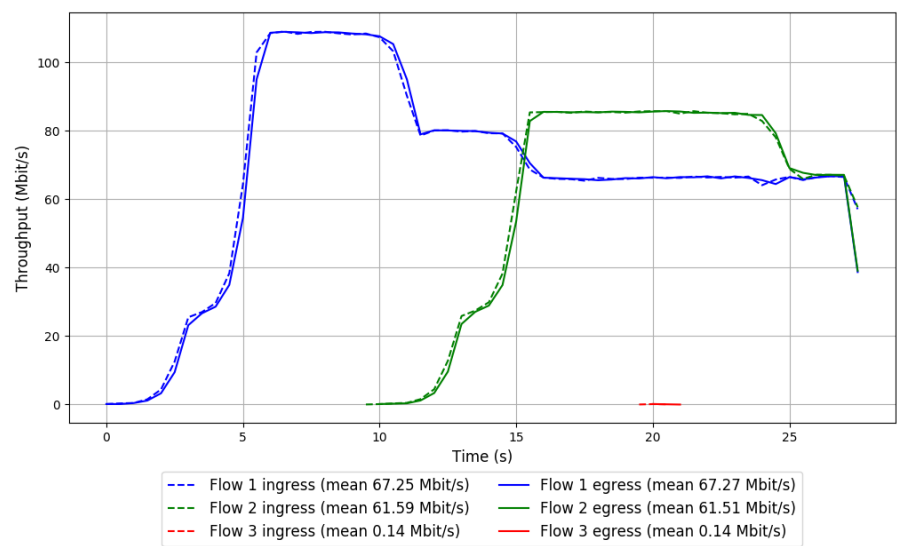
-- Flow 3:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 136.223 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-17 08:08:32

End at: 2017-11-17 08:09:02

Below is generated by plot.py at 2017-11-17 11:24:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.19 Mbit/s

95th percentile per-packet one-way delay: 136.417 ms

Loss rate: 1.95%

-- Flow 1:

Average throughput: 59.88 Mbit/s

95th percentile per-packet one-way delay: 136.489 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 49.40 Mbit/s

95th percentile per-packet one-way delay: 136.285 ms

Loss rate: 1.97%

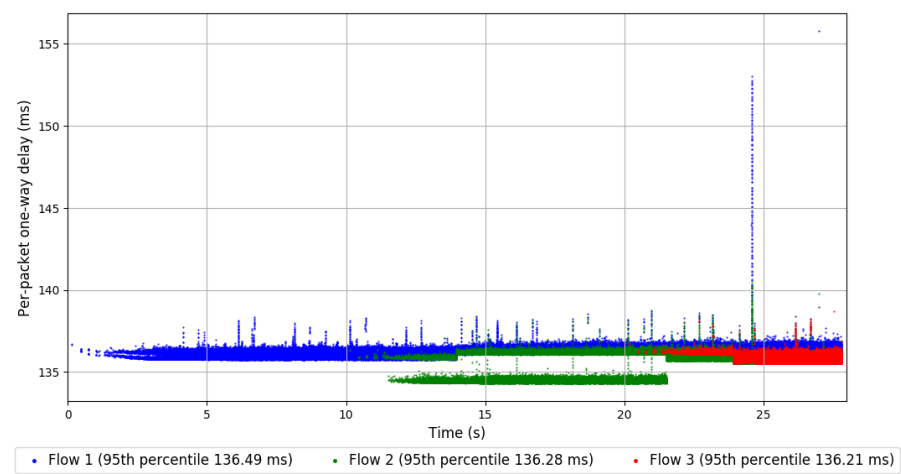
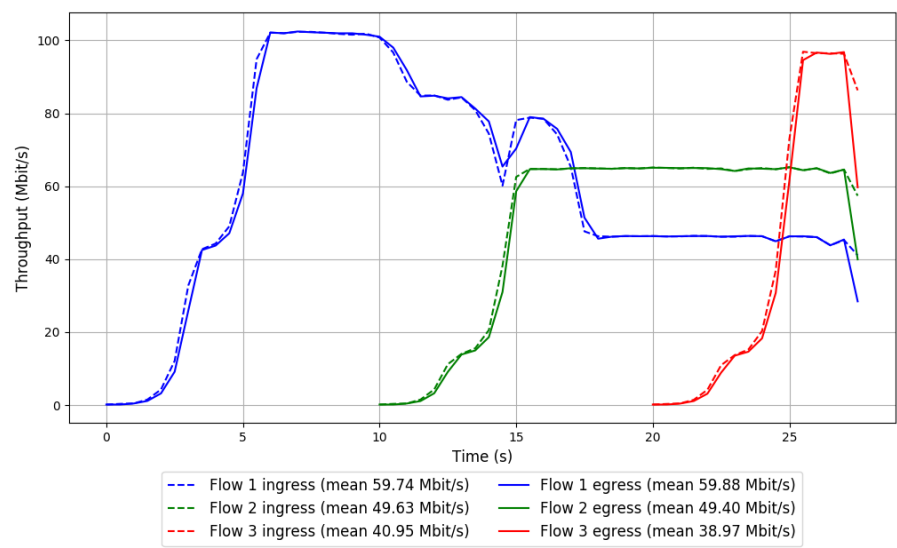
-- Flow 3:

Average throughput: 38.97 Mbit/s

95th percentile per-packet one-way delay: 136.213 ms

Loss rate: 8.08%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-17 08:22:29

End at: 2017-11-17 08:22:59

Below is generated by plot.py at 2017-11-17 11:24:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.41 Mbit/s

95th percentile per-packet one-way delay: 136.515 ms

Loss rate: 1.82%

-- Flow 1:

Average throughput: 67.64 Mbit/s

95th percentile per-packet one-way delay: 136.419 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 137.075 ms

Loss rate: 0.00%

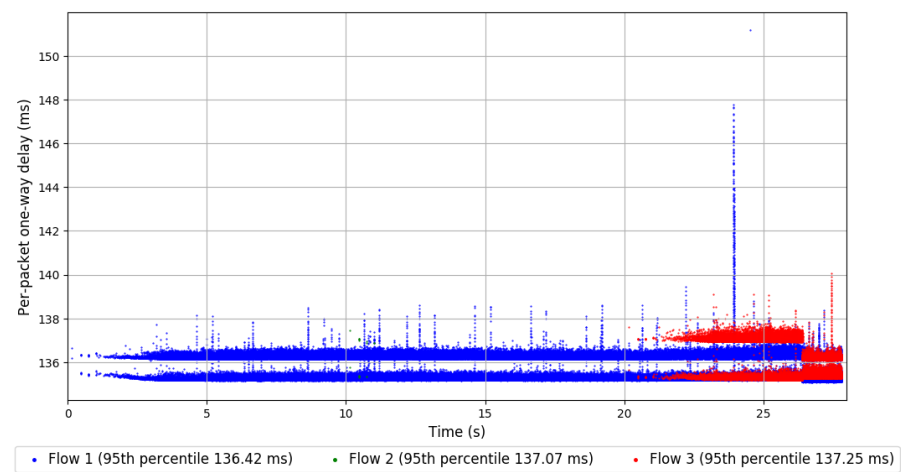
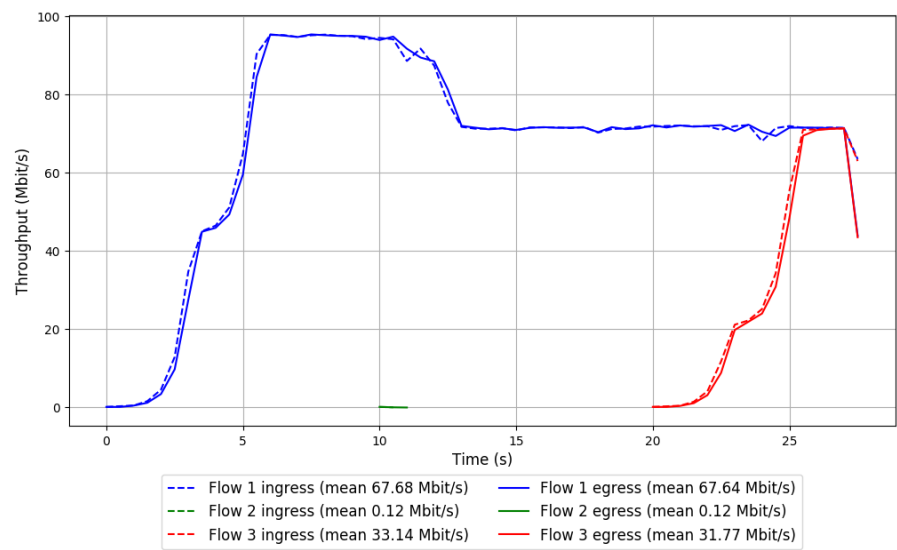
-- Flow 3:

Average throughput: 31.77 Mbit/s

95th percentile per-packet one-way delay: 137.247 ms

Loss rate: 7.44%

Run 10: Report of Copa — Data Link

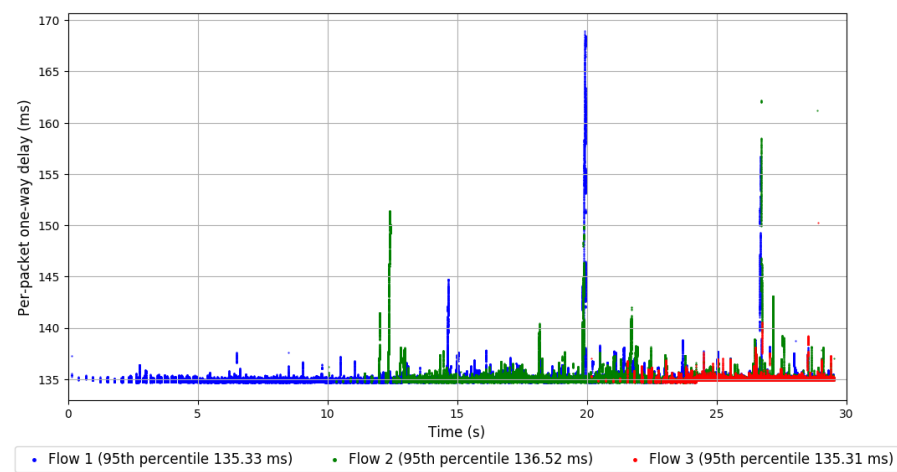
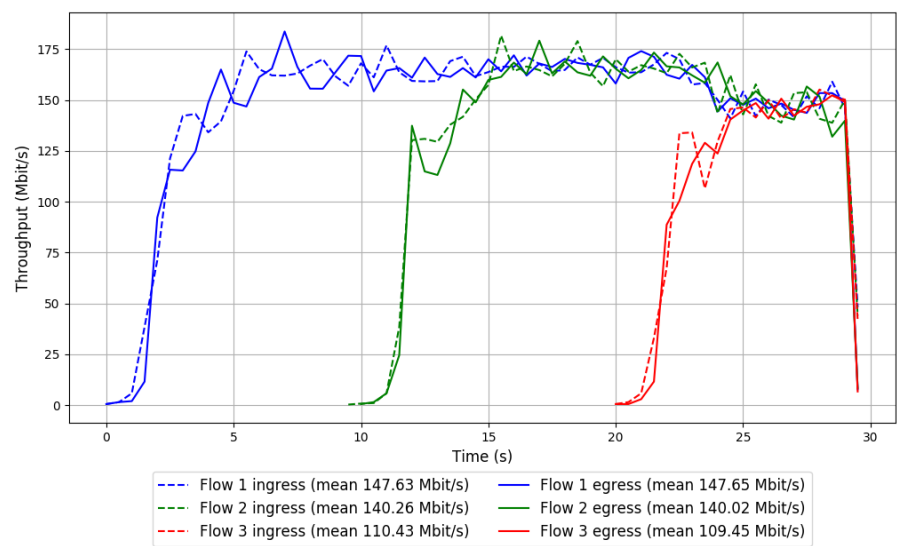


```
Run 1: Statistics of Indigo

Start at: 2017-11-17 06:06:33
End at: 2017-11-17 06:07:03

# Below is generated by plot.py at 2017-11-17 11:27:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 275.21 Mbit/s
95th percentile per-packet one-way delay: 135.588 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 147.65 Mbit/s
95th percentile per-packet one-way delay: 135.328 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 140.02 Mbit/s
95th percentile per-packet one-way delay: 136.520 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 109.45 Mbit/s
95th percentile per-packet one-way delay: 135.308 ms
Loss rate: 3.70%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-11-17 06:20:31

End at: 2017-11-17 06:21:01

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 158.50 Mbit/s

95th percentile per-packet one-way delay: 135.406 ms

Loss rate: 1.78%

-- Flow 1:

Average throughput: 147.68 Mbit/s

95th percentile per-packet one-way delay: 135.396 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 55.50 Mbit/s

95th percentile per-packet one-way delay: 135.801 ms

Loss rate: 0.00%

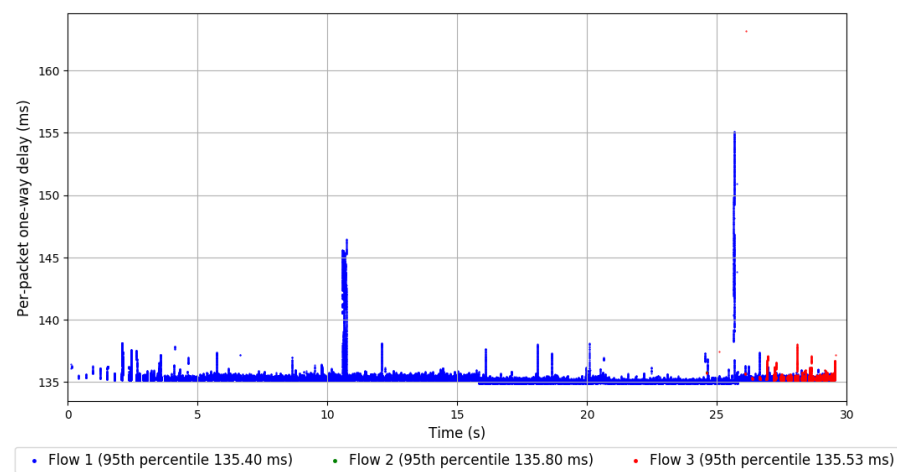
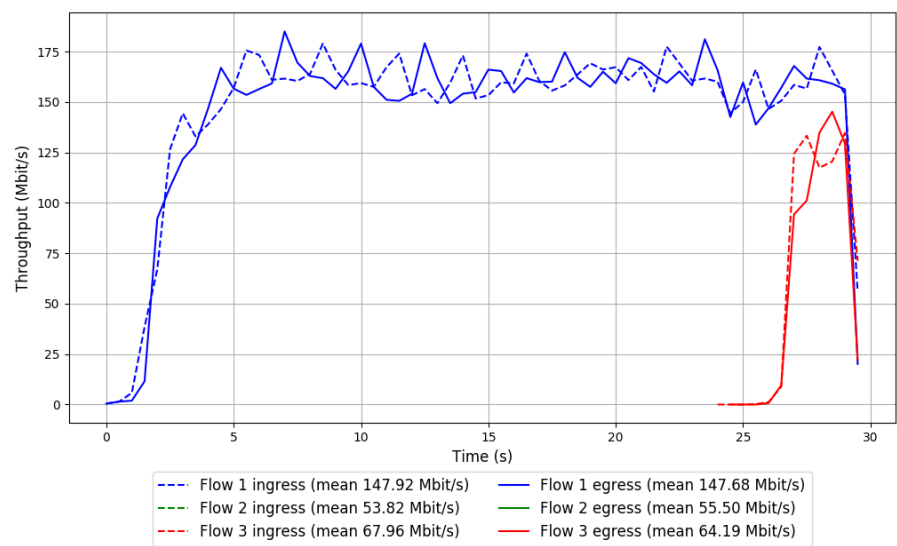
-- Flow 3:

Average throughput: 64.19 Mbit/s

95th percentile per-packet one-way delay: 135.532 ms

Loss rate: 10.44%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-17 06:34:01

End at: 2017-11-17 06:34:31

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 257.77 Mbit/s

95th percentile per-packet one-way delay: 163.203 ms

Loss rate: 1.51%

-- Flow 1:

Average throughput: 135.24 Mbit/s

95th percentile per-packet one-way delay: 163.215 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 127.07 Mbit/s

95th percentile per-packet one-way delay: 163.221 ms

Loss rate: 1.60%

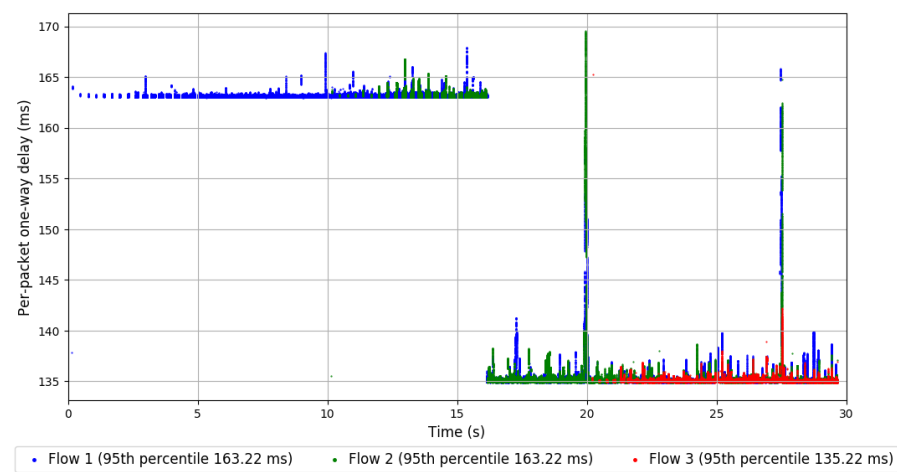
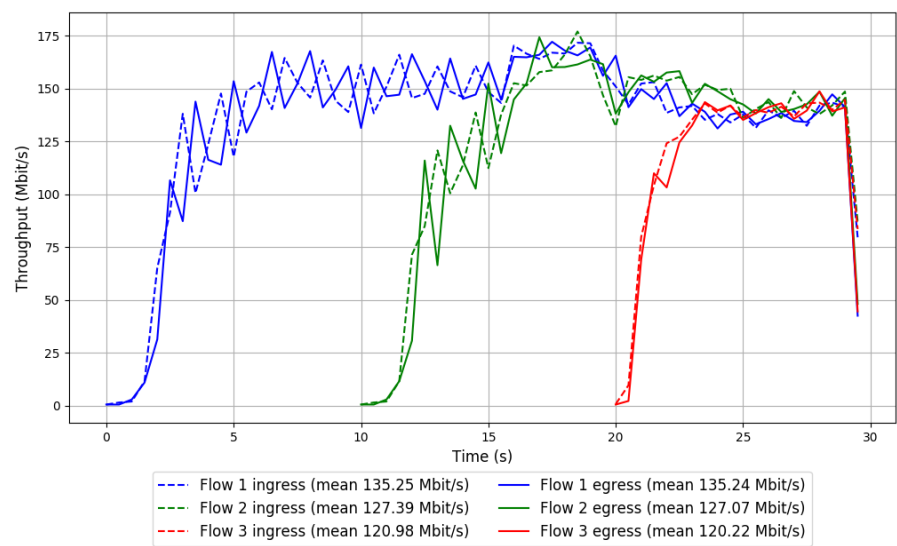
-- Flow 3:

Average throughput: 120.22 Mbit/s

95th percentile per-packet one-way delay: 135.221 ms

Loss rate: 3.33%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-17 06:47:26

End at: 2017-11-17 06:47:56

Below is generated by plot.py at 2017-11-17 11:27:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 268.09 Mbit/s

95th percentile per-packet one-way delay: 135.569 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 144.99 Mbit/s

95th percentile per-packet one-way delay: 135.543 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 133.79 Mbit/s

95th percentile per-packet one-way delay: 135.647 ms

Loss rate: 1.29%

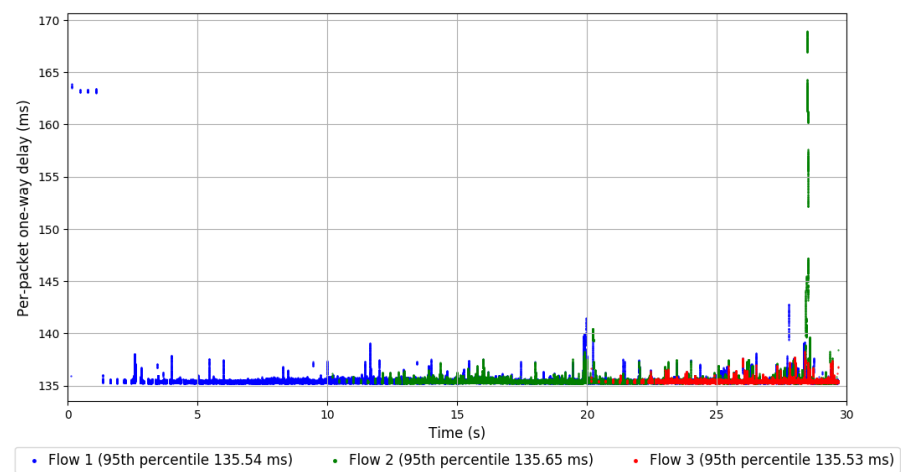
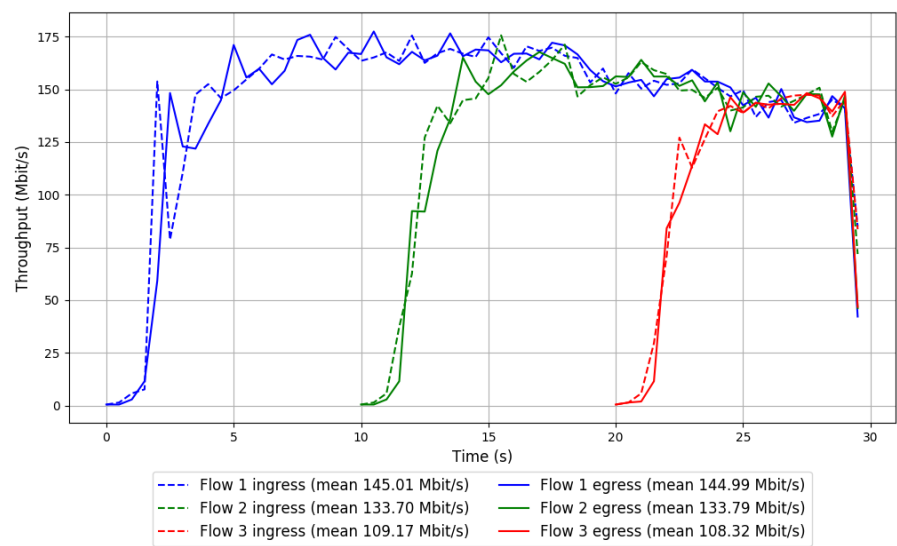
-- Flow 3:

Average throughput: 108.32 Mbit/s

95th percentile per-packet one-way delay: 135.529 ms

Loss rate: 3.52%

Run 4: Report of Indigo — Data Link

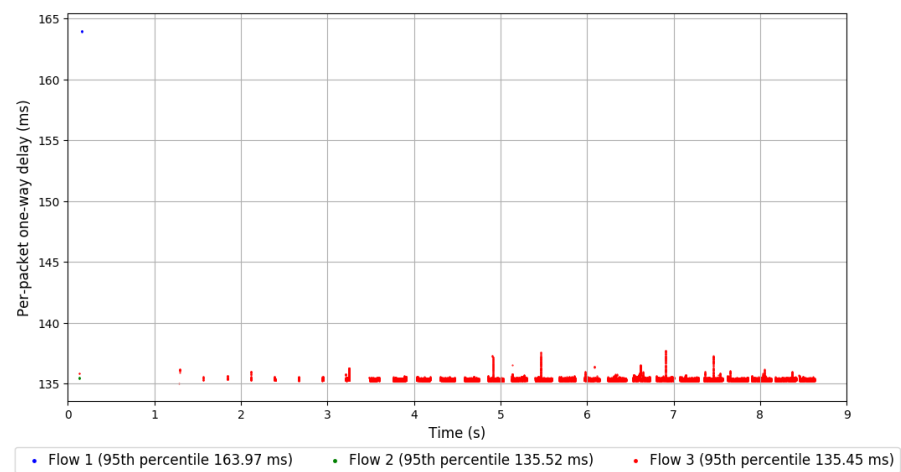
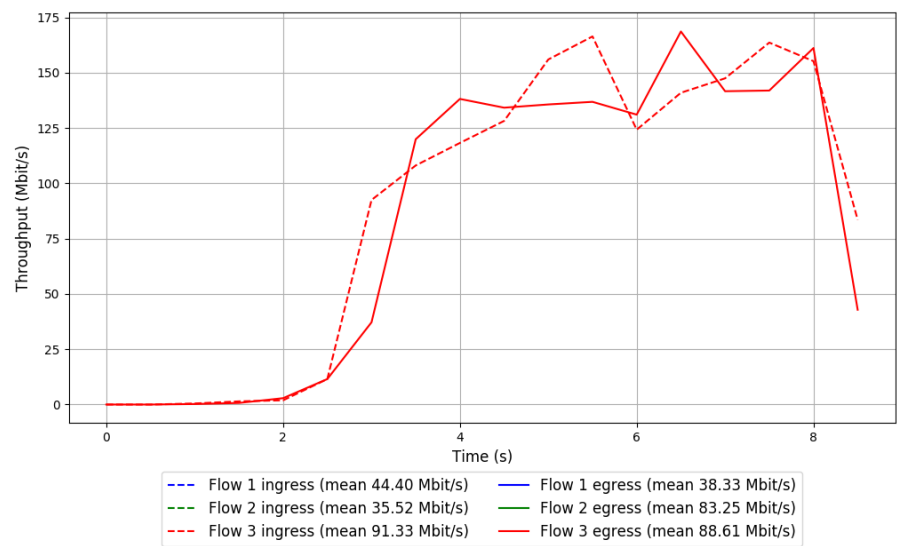


Run 5: Statistics of Indigo

Start at: 2017-11-17 07:00:56

End at: 2017-11-17 07:01:26

Run 5: Report of Indigo — Data Link

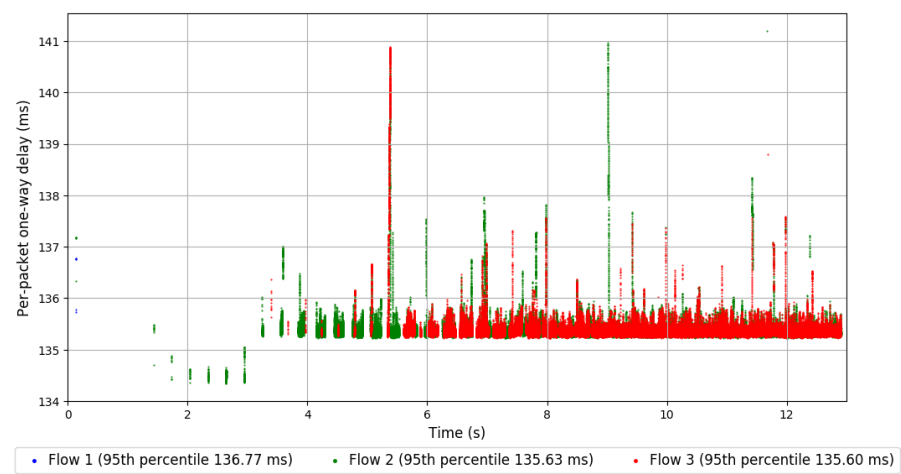
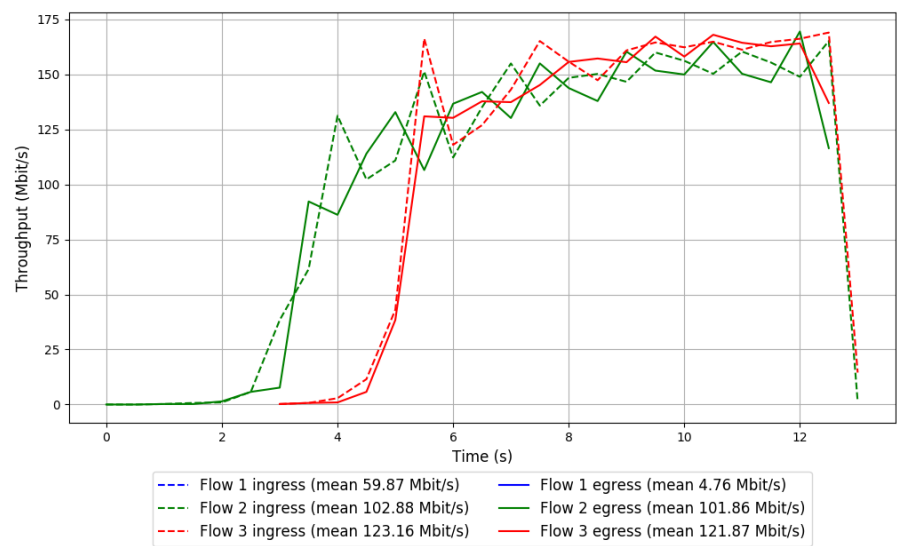


Run 6: Statistics of Indigo

Start at: 2017-11-17 07:14:48

End at: 2017-11-17 07:15:18

Run 6: Report of Indigo — Data Link

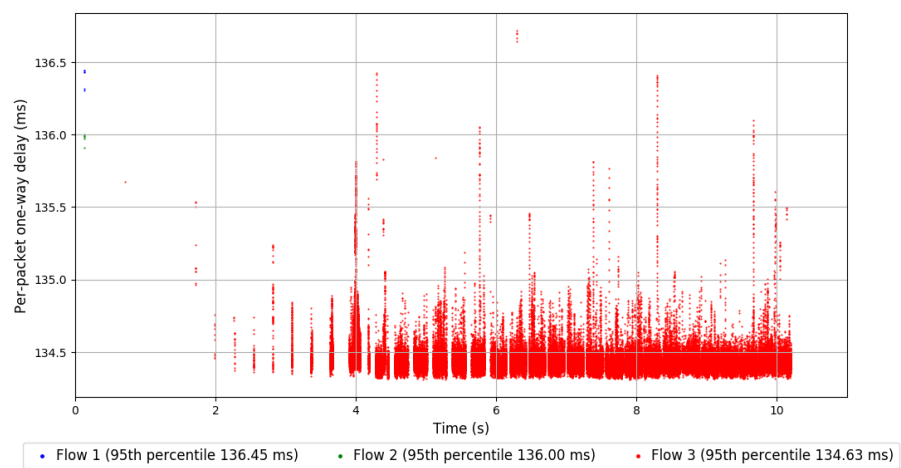
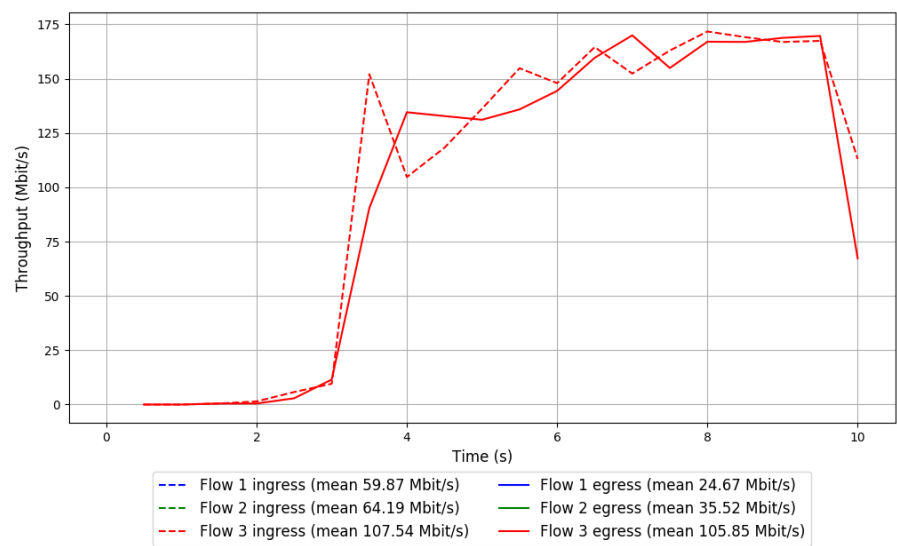


Run 7: Statistics of Indigo

Start at: 2017-11-17 07:28:48

End at: 2017-11-17 07:29:18

Run 7: Report of Indigo — Data Link

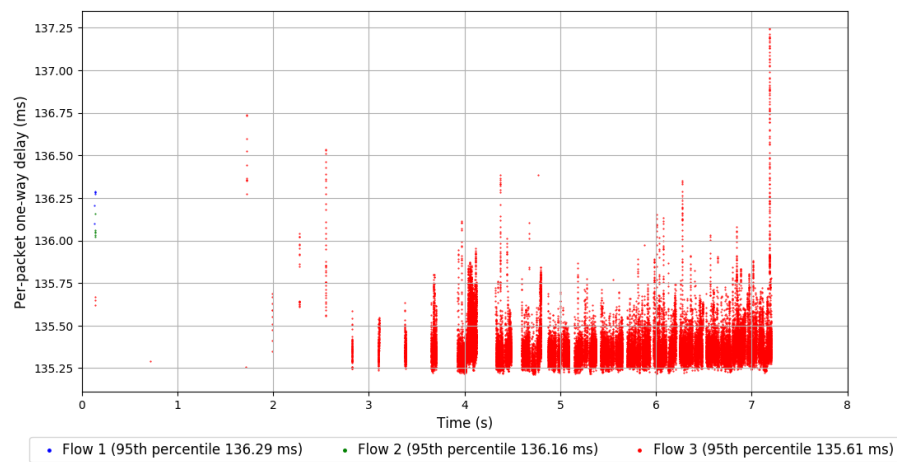
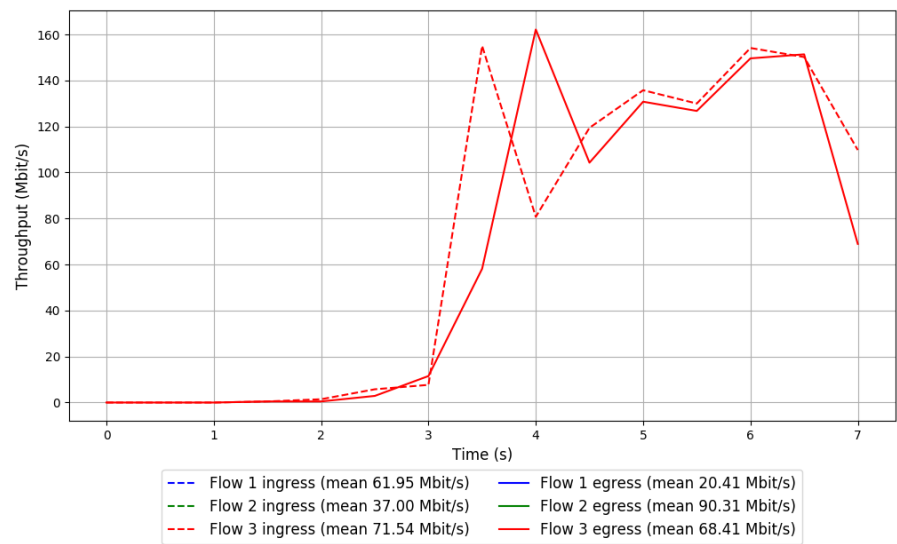


Run 8: Statistics of Indigo

Start at: 2017-11-17 07:42:37

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

Run 8: Report of Indigo — Data Link

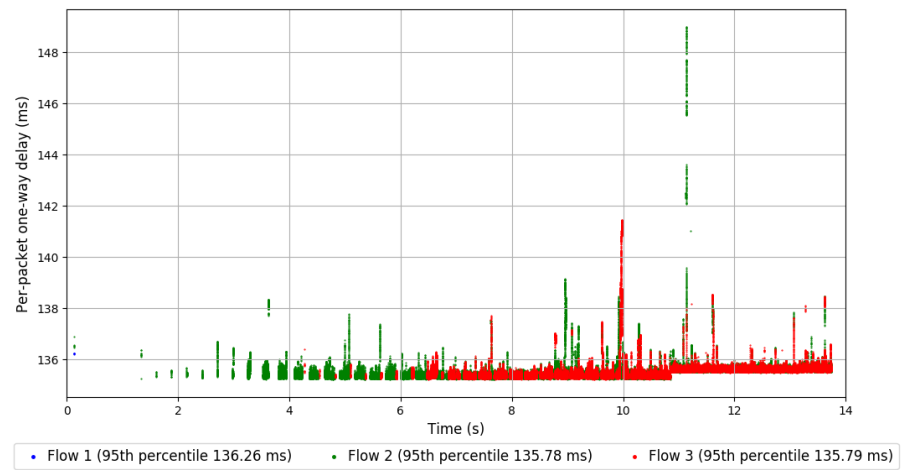
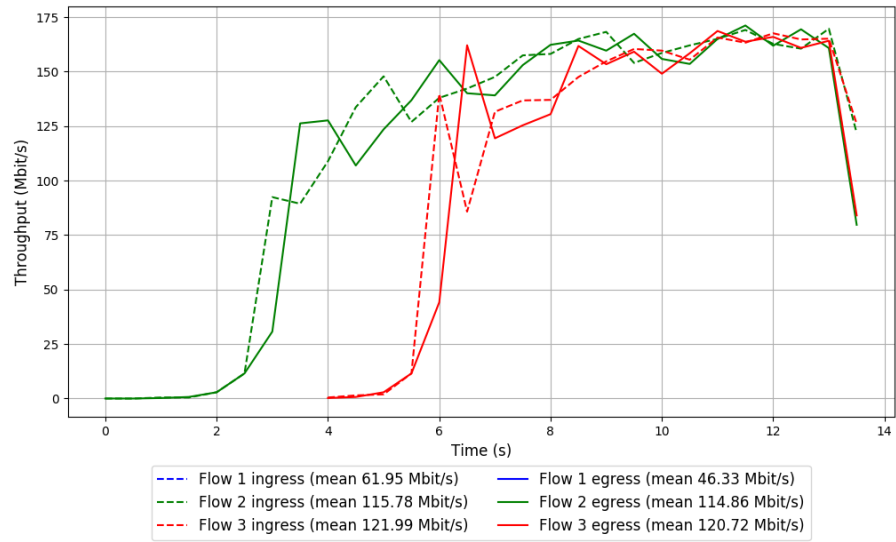


Run 9: Statistics of Indigo

Start at: 2017-11-17 07:56:21

End at: 2017-11-17 07:56:51

Run 9: Report of Indigo — Data Link

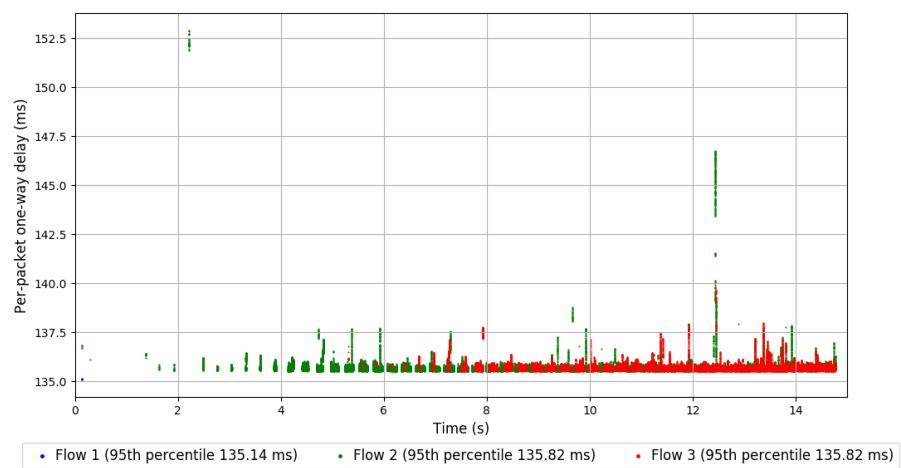
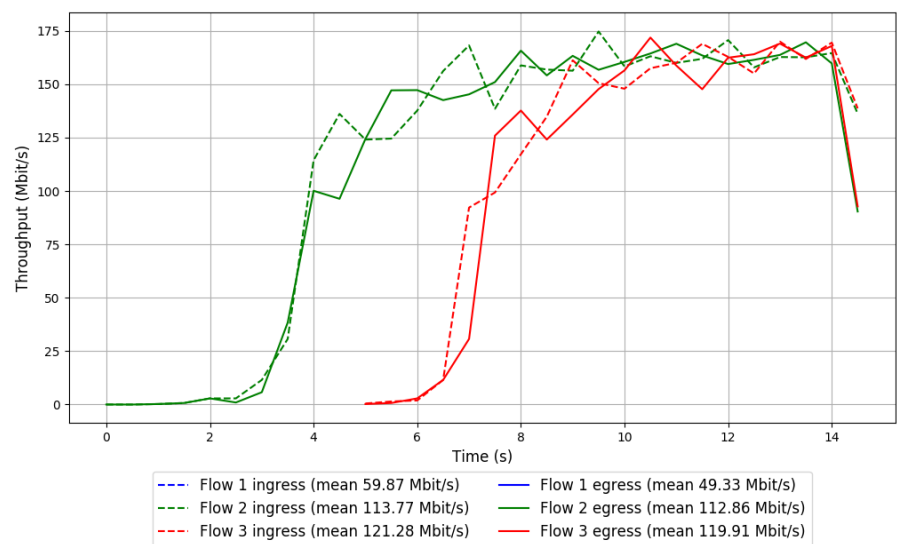


Run 10: Statistics of Indigo

Start at: 2017-11-17 08:10:23

End at: 2017-11-17 08:10:53

Run 10: Report of Indigo — Data Link

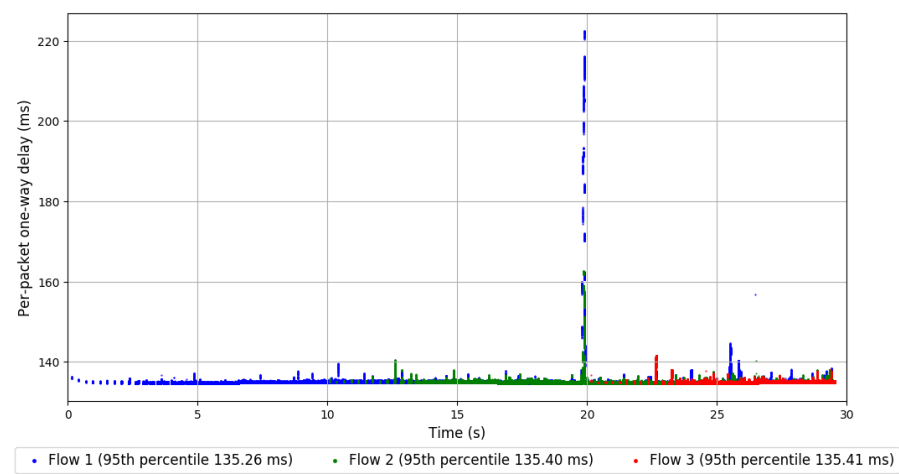
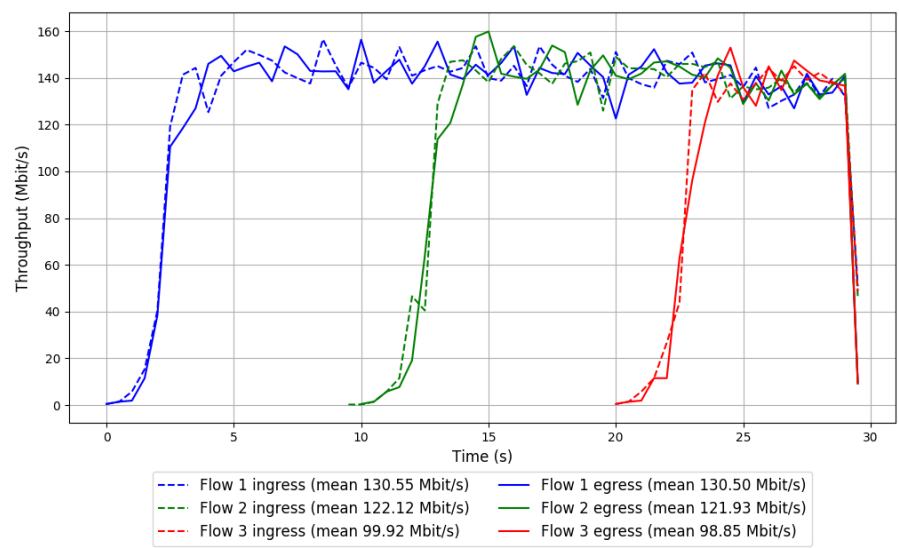


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-17 06:10:01
End at: 2017-11-17 06:10:31

# Below is generated by plot.py at 2017-11-17 11:29:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 242.76 Mbit/s
95th percentile per-packet one-way delay: 135.323 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 130.50 Mbit/s
95th percentile per-packet one-way delay: 135.263 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 121.93 Mbit/s
95th percentile per-packet one-way delay: 135.397 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 98.85 Mbit/s
95th percentile per-packet one-way delay: 135.410 ms
Loss rate: 3.85%
```

Run 1: Report of Indigo-calib — Data Link

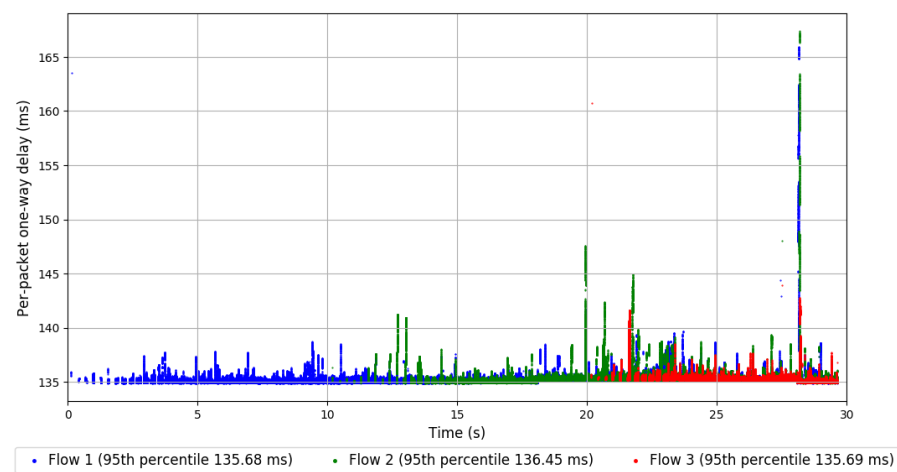
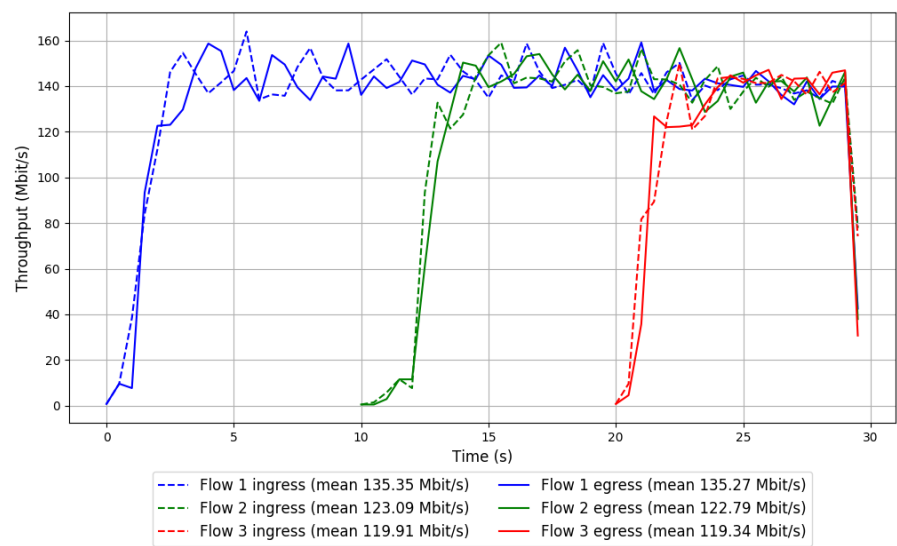


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-17 06:23:39
End at: 2017-11-17 06:24:09

# Below is generated by plot.py at 2017-11-17 11:29:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 254.54 Mbit/s
95th percentile per-packet one-way delay: 135.841 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 135.27 Mbit/s
95th percentile per-packet one-way delay: 135.680 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 122.79 Mbit/s
95th percentile per-packet one-way delay: 136.454 ms
Loss rate: 1.60%
-- Flow 3:
Average throughput: 119.34 Mbit/s
95th percentile per-packet one-way delay: 135.695 ms
Loss rate: 3.17%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-11-17 06:37:05

End at: 2017-11-17 06:37:35

Below is generated by plot.py at 2017-11-17 11:29:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 224.12 Mbit/s

95th percentile per-packet one-way delay: 163.334 ms

Loss rate: 1.69%

-- Flow 1:

Average throughput: 119.90 Mbit/s

95th percentile per-packet one-way delay: 163.289 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 112.45 Mbit/s

95th percentile per-packet one-way delay: 163.379 ms

Loss rate: 1.65%

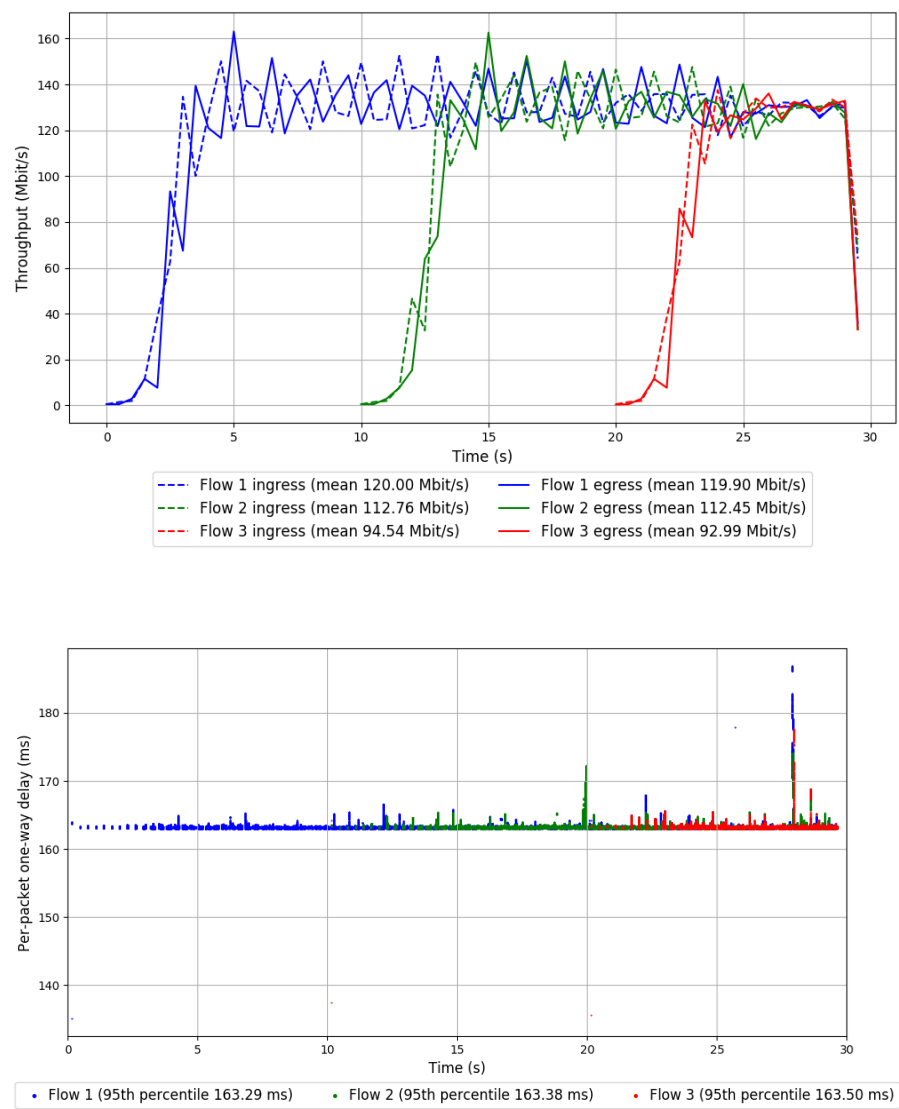
-- Flow 3:

Average throughput: 92.99 Mbit/s

95th percentile per-packet one-way delay: 163.501 ms

Loss rate: 4.38%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-11-17 06:50:34

End at: 2017-11-17 06:51:04

Below is generated by plot.py at 2017-11-17 11:29:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 187.46 Mbit/s

95th percentile per-packet one-way delay: 163.183 ms

Loss rate: 1.81%

-- Flow 1:

Average throughput: 117.83 Mbit/s

95th percentile per-packet one-way delay: 163.183 ms

Loss rate: 1.19%

-- Flow 2:

Average throughput: 59.32 Mbit/s

95th percentile per-packet one-way delay: 163.210 ms

Loss rate: 1.78%

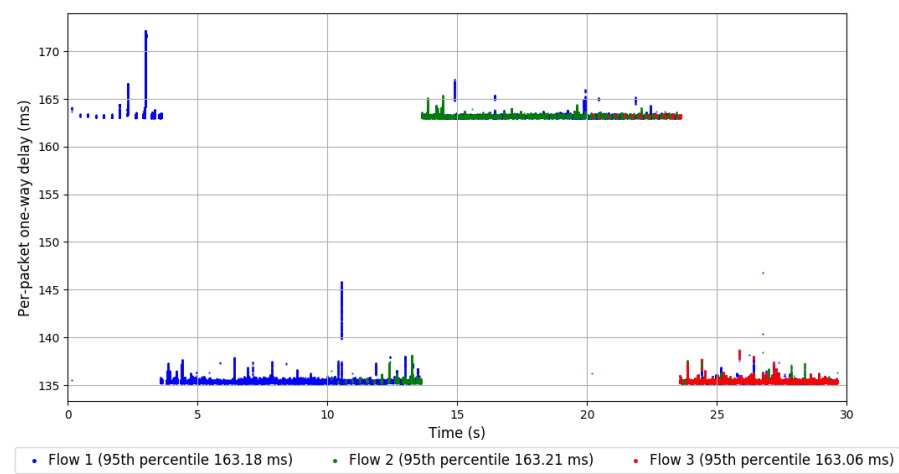
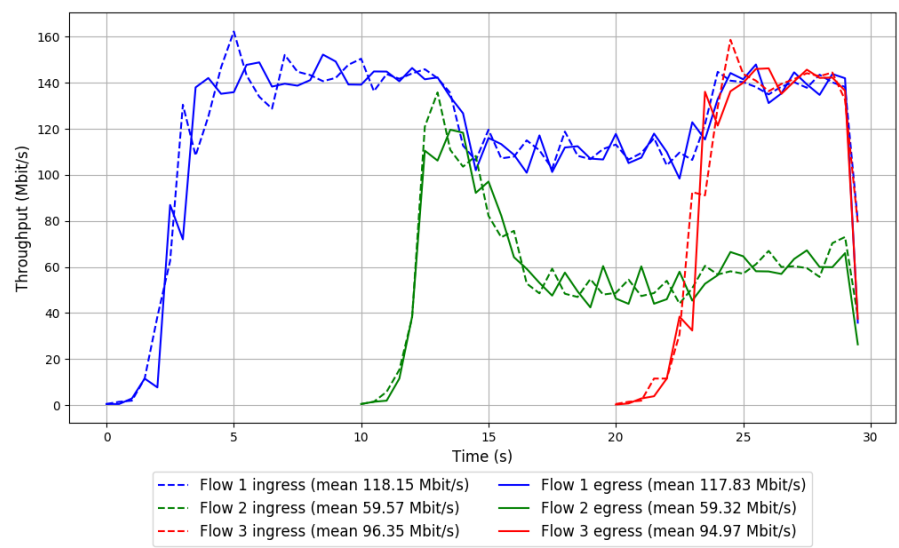
-- Flow 3:

Average throughput: 94.97 Mbit/s

95th percentile per-packet one-way delay: 163.065 ms

Loss rate: 4.19%

Run 4: Report of Indigo-calib — Data Link

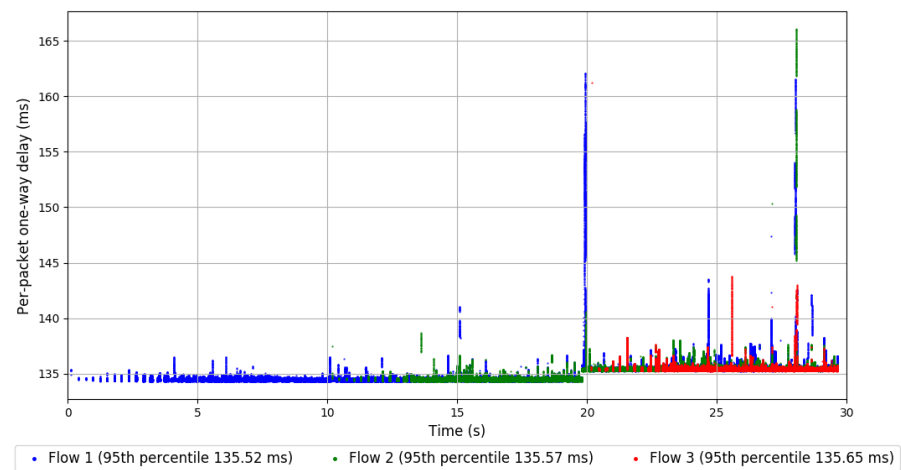
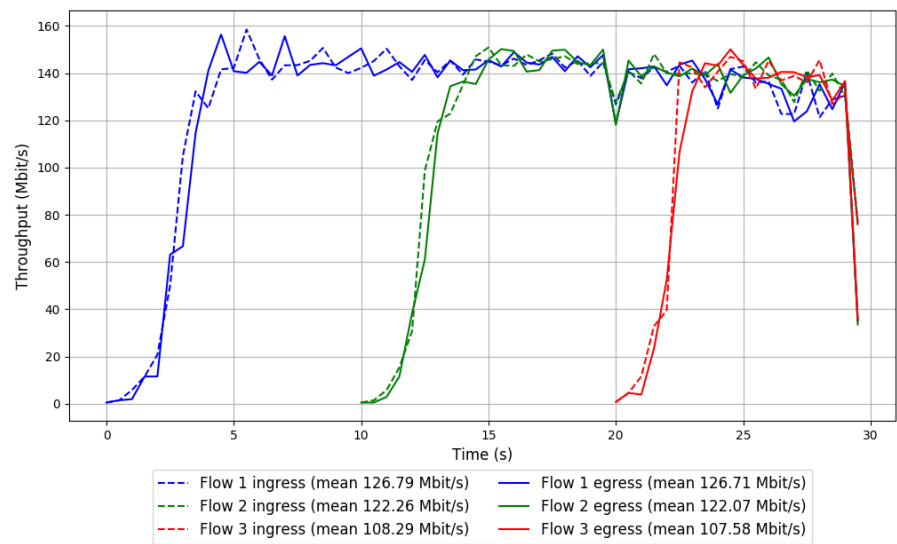


```
Run 5: Statistics of Indigo-calib

Start at: 2017-11-17 07:03:58
End at: 2017-11-17 07:04:28

# Below is generated by plot.py at 2017-11-17 11:30:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 241.77 Mbit/s
95th percentile per-packet one-way delay: 135.561 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 126.71 Mbit/s
95th percentile per-packet one-way delay: 135.524 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 122.07 Mbit/s
95th percentile per-packet one-way delay: 135.567 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 107.58 Mbit/s
95th percentile per-packet one-way delay: 135.645 ms
Loss rate: 3.44%
```

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-11-17 07:18:11

End at: 2017-11-17 07:18:41

Below is generated by plot.py at 2017-11-17 11:30:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 244.94 Mbit/s

95th percentile per-packet one-way delay: 135.544 ms

Loss rate: 1.66%

-- Flow 1:

Average throughput: 129.14 Mbit/s

95th percentile per-packet one-way delay: 135.502 ms

Loss rate: 1.24%

-- Flow 2:

Average throughput: 125.10 Mbit/s

95th percentile per-packet one-way delay: 135.557 ms

Loss rate: 1.51%

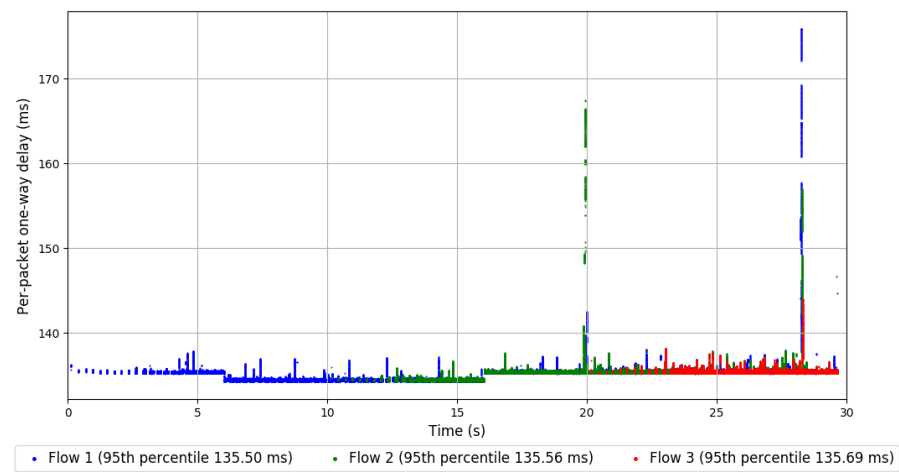
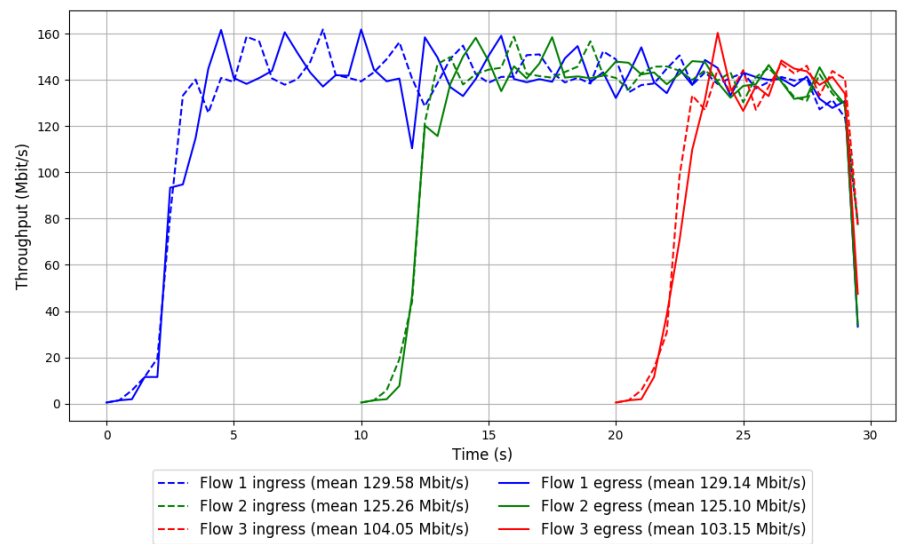
-- Flow 3:

Average throughput: 103.15 Mbit/s

95th percentile per-packet one-way delay: 135.694 ms

Loss rate: 3.63%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-11-17 07:32:06

End at: 2017-11-17 07:32:36

Below is generated by plot.py at 2017-11-17 11:30:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 239.14 Mbit/s

95th percentile per-packet one-way delay: 135.601 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 128.32 Mbit/s

95th percentile per-packet one-way delay: 135.642 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 122.30 Mbit/s

95th percentile per-packet one-way delay: 135.569 ms

Loss rate: 1.47%

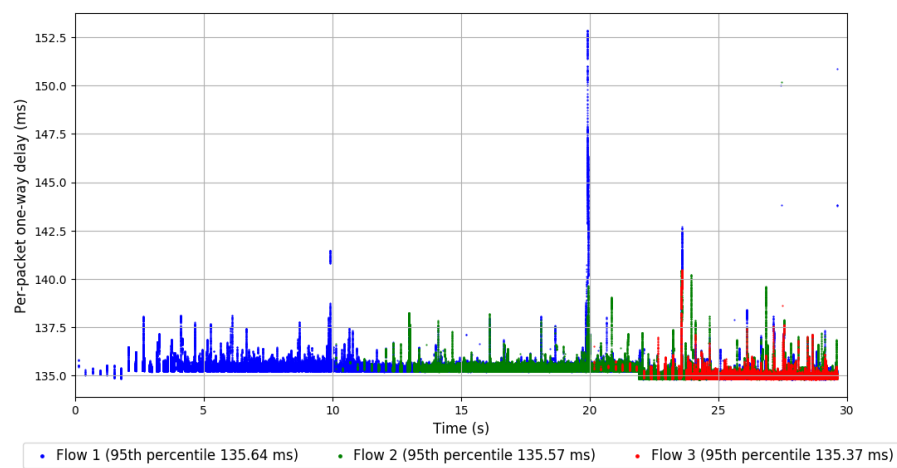
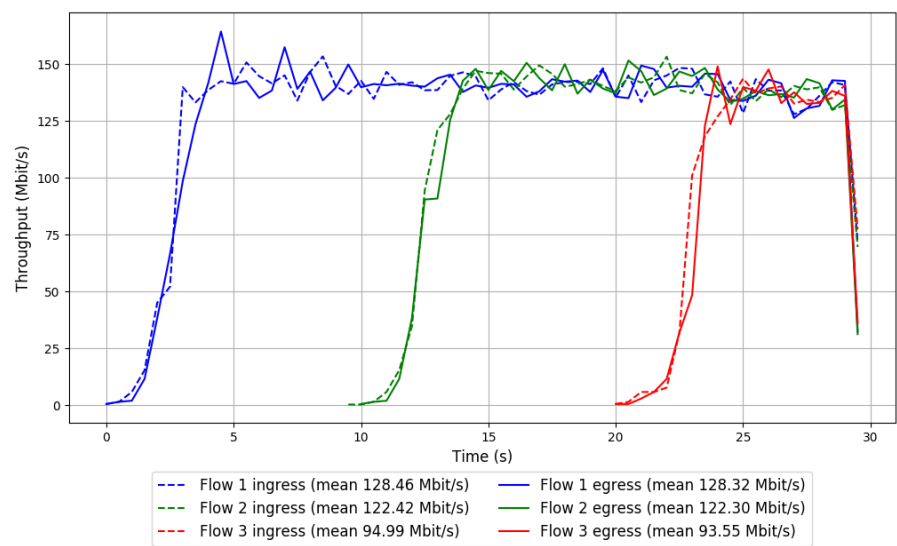
-- Flow 3:

Average throughput: 93.55 Mbit/s

95th percentile per-packet one-way delay: 135.367 ms

Loss rate: 4.27%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-17 07:45:38

End at: 2017-11-17 07:46:08

Below is generated by plot.py at 2017-11-17 11:30:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 243.80 Mbit/s

95th percentile per-packet one-way delay: 135.710 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 129.92 Mbit/s

95th percentile per-packet one-way delay: 135.636 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 124.71 Mbit/s

95th percentile per-packet one-way delay: 135.733 ms

Loss rate: 1.39%

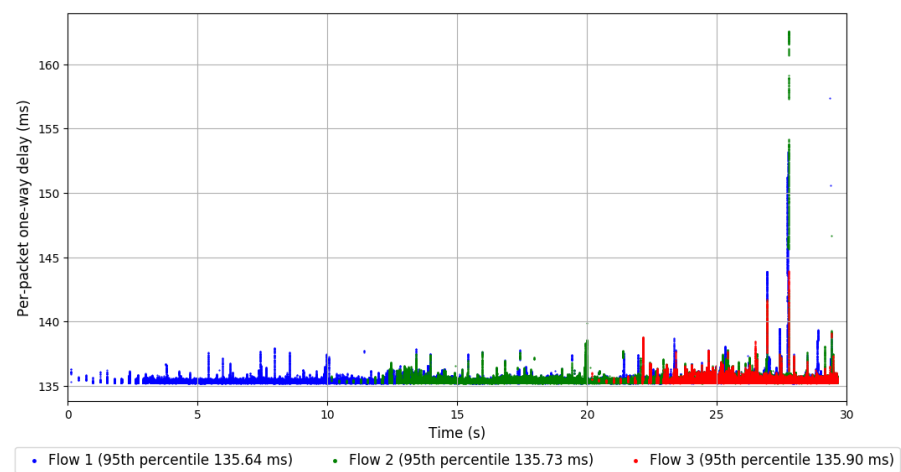
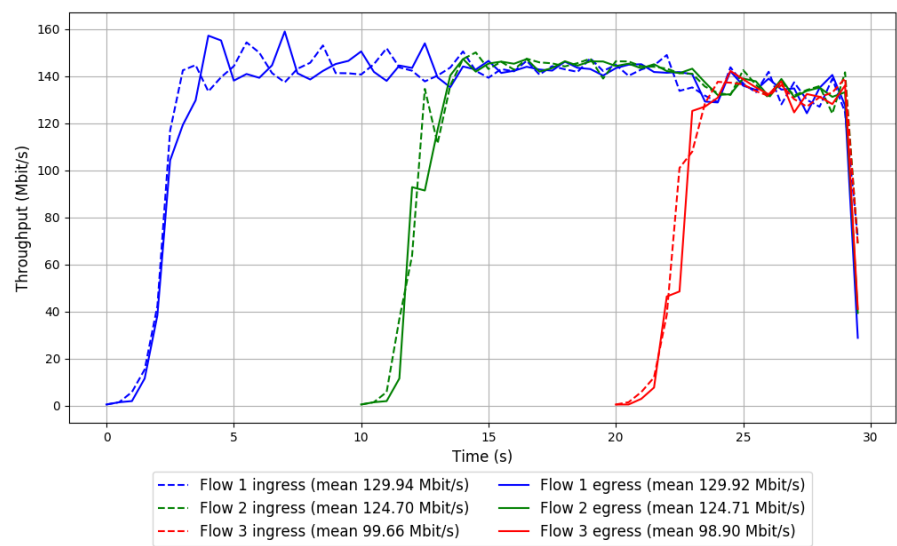
-- Flow 3:

Average throughput: 98.90 Mbit/s

95th percentile per-packet one-way delay: 135.899 ms

Loss rate: 3.52%

Run 8: Report of Indigo-calib — Data Link

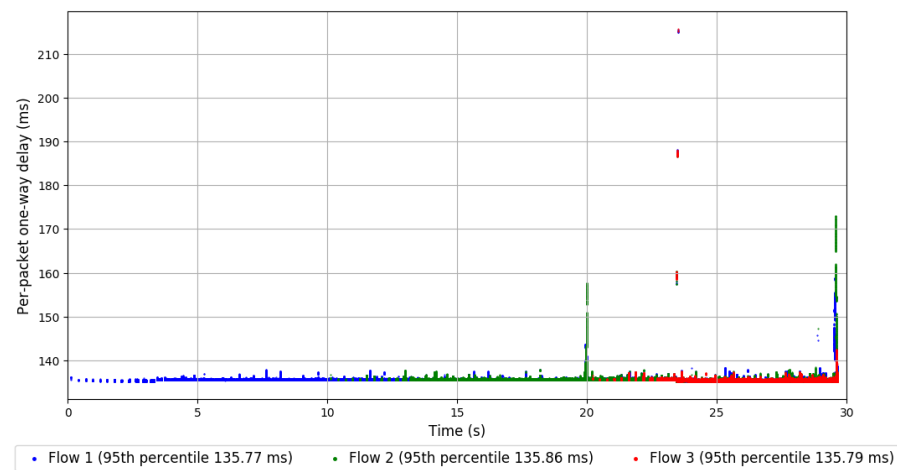
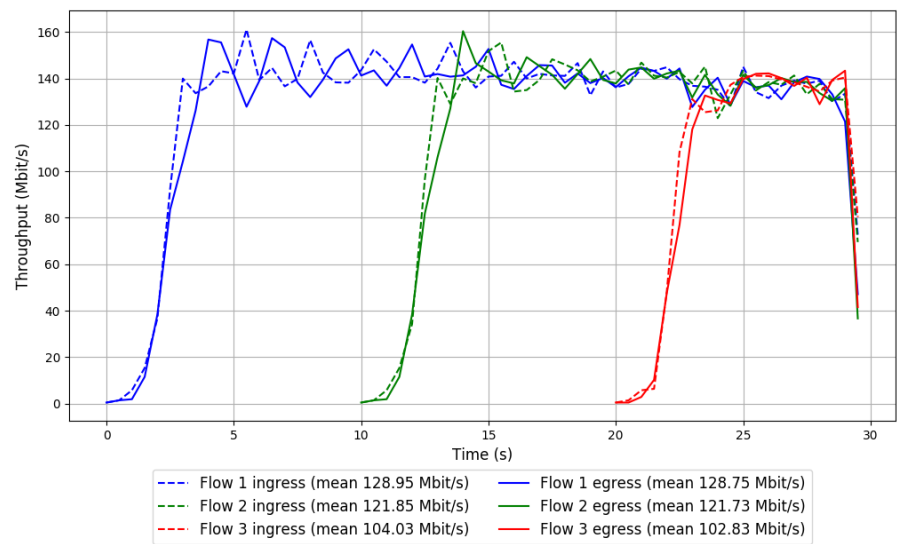


```
Run 9: Statistics of Indigo-calib

Start at: 2017-11-17 07:59:44
End at: 2017-11-17 08:00:14

# Below is generated by plot.py at 2017-11-17 11:31:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 242.12 Mbit/s
95th percentile per-packet one-way delay: 135.799 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 128.75 Mbit/s
95th percentile per-packet one-way delay: 135.768 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 121.73 Mbit/s
95th percentile per-packet one-way delay: 135.861 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 102.83 Mbit/s
95th percentile per-packet one-way delay: 135.794 ms
Loss rate: 3.89%
```

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-17 08:13:34

End at: 2017-11-17 08:14:04

Below is generated by plot.py at 2017-11-17 11:31:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.38 Mbit/s

95th percentile per-packet one-way delay: 136.384 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 128.28 Mbit/s

95th percentile per-packet one-way delay: 136.319 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 122.40 Mbit/s

95th percentile per-packet one-way delay: 136.407 ms

Loss rate: 1.45%

-- Flow 3:

Average throughput: 100.55 Mbit/s

95th percentile per-packet one-way delay: 136.601 ms

Loss rate: 3.71%

Run 10: Report of Indigo-calib — Data Link

