

Pantheon Report

Generated at 2018-01-26 15:15:52 (UTC).

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

Repeated the test of 15 congestion control schemes 10 times.

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

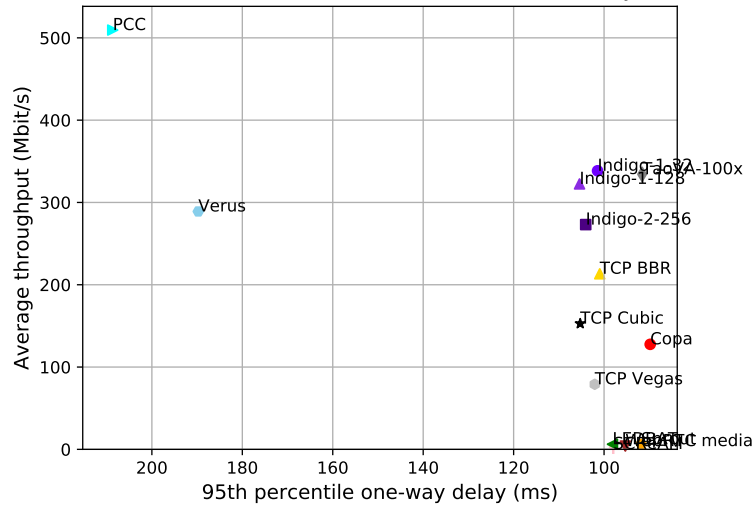
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

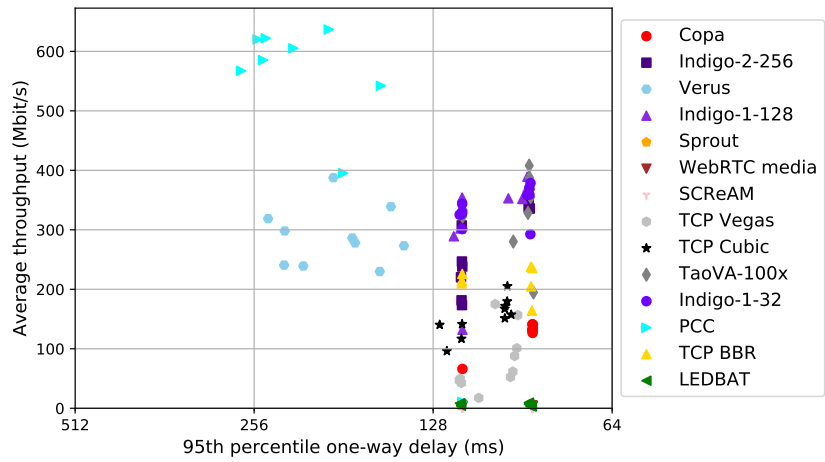
Git summary:

```
branch: master @ f23294ec38436c9f802847d477a41b7343ec76e6
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
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-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
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/vivace @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



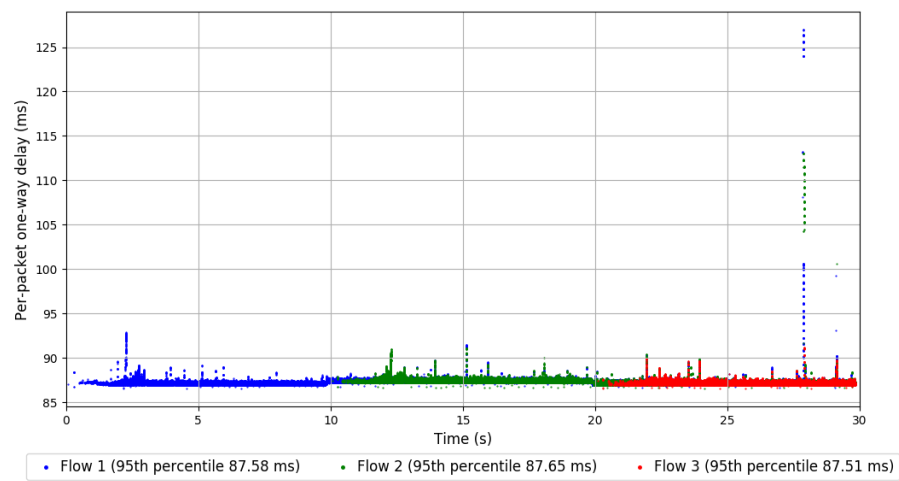
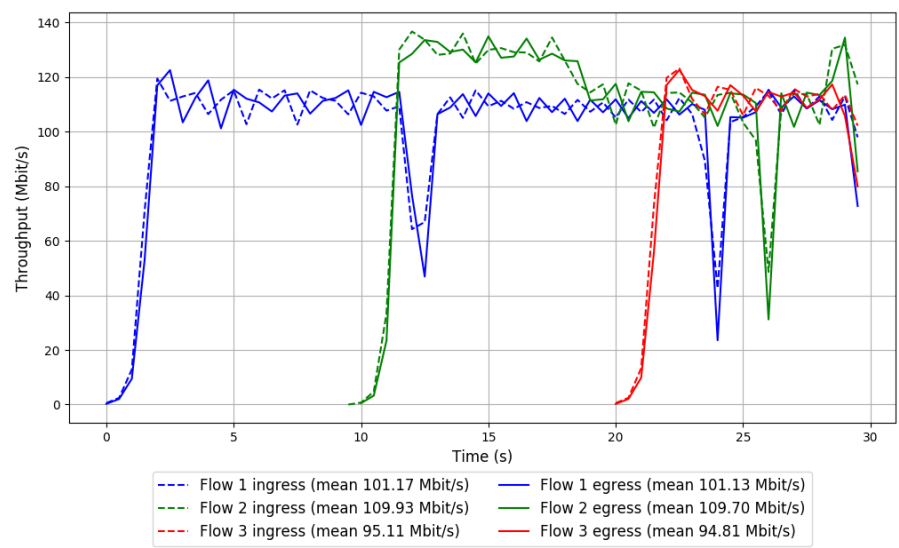
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	8	114.59	110.38	98.55	100.91	97.67	97.96	0.57	1.25	2.40
TCP Cubic	10	82.46	61.02	91.63	591.84	101.31	101.67	0.50	1.45	1.66
LEDBAT	8	4.69	3.43	3.56	661.60	98.09	476.79	0.75	1.92	3.29
PCC	9	421.42	108.87	48.75	205.91	174.01	168.50	3.26	1.79	2.74
QUIC Cubic	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SCReAM	10	0.21	0.22	0.21	97.90	86.92	95.05	0.52	0.87	1.61
WebRTC media	10	2.14	1.32	0.51	92.46	89.76	92.57	0.77	1.26	2.66
Sprout	7	3.34	3.14	2.38	95.55	91.74	95.44	0.99	1.35	2.33
TaoVA-100x	9	159.20	201.32	168.38	92.39	91.08	88.87	0.56	0.92	3.06
TCP Vegas	10	38.24	32.66	58.64	103.51	101.86	101.35	0.78	1.04	2.05
Verus	10	180.27	124.15	86.46	182.68	174.63	202.25	1.96	2.09	4.54
Copa	10	67.35	71.90	48.84	89.75	89.79	92.59	0.77	0.89	3.15
Indigo-2-256	10	133.18	137.73	147.28	103.83	104.38	99.83	0.41	0.68	2.03
Indigo-1-32	10	178.36	164.54	158.71	101.22	101.62	99.31	0.60	0.90	2.20
Indigo-1-128	10	158.07	178.87	142.66	106.08	105.92	100.91	0.53	0.90	1.86

```
Run 1: Statistics of TCP BBR

Start at: 2018-01-26 09:10:02
End at: 2018-01-26 09:10:32

# Below is generated by plot.py at 2018-01-26 14:14:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 204.97 Mbit/s
95th percentile per-packet one-way delay: 87.603 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 101.13 Mbit/s
95th percentile per-packet one-way delay: 87.584 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 109.70 Mbit/s
95th percentile per-packet one-way delay: 87.653 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 94.81 Mbit/s
95th percentile per-packet one-way delay: 87.506 ms
Loss rate: 2.34%
```


Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-26 09:25:27

End at: 2018-01-26 09:25:57

Below is generated by plot.py at 2018-01-26 14:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 164.07 Mbit/s

95th percentile per-packet one-way delay: 87.314 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 119.96 Mbit/s

95th percentile per-packet one-way delay: 87.301 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 105.62 Mbit/s

95th percentile per-packet one-way delay: 88.311 ms

Loss rate: 2.96%

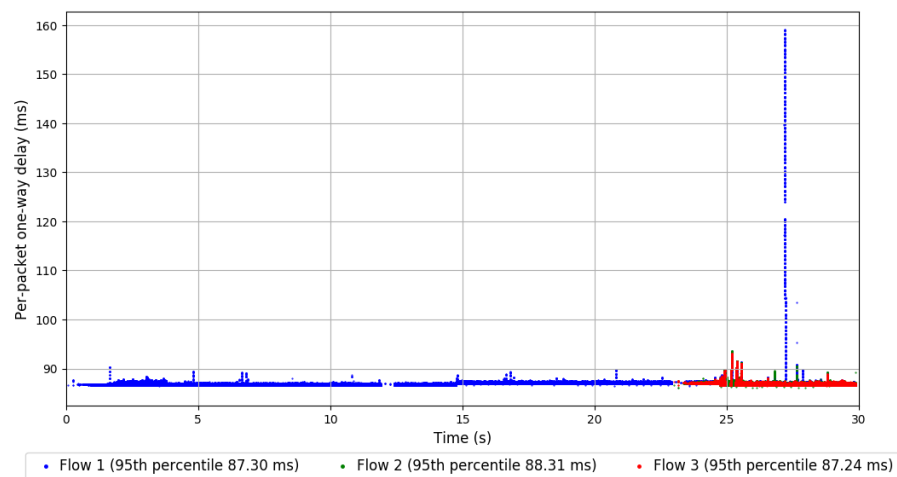
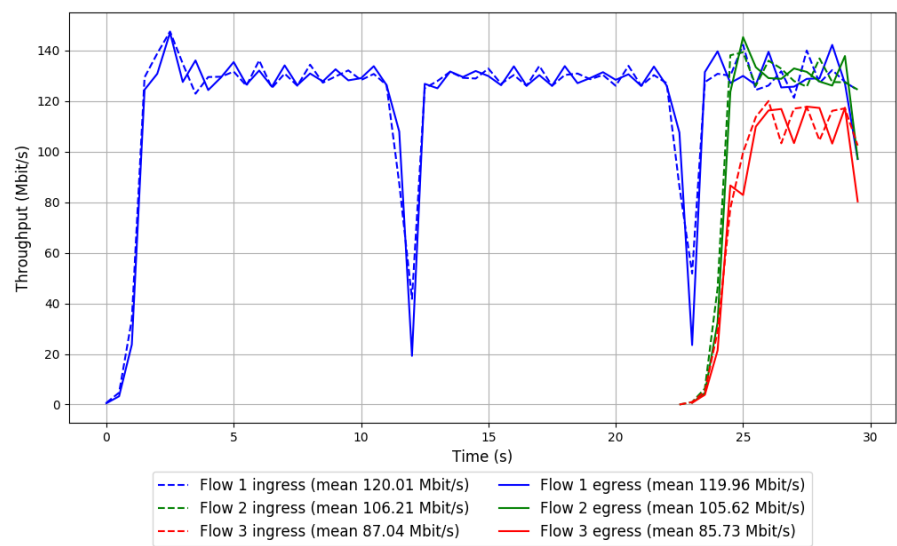
-- Flow 3:

Average throughput: 85.73 Mbit/s

95th percentile per-packet one-way delay: 87.241 ms

Loss rate: 3.79%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-26 09:40:52

End at: 2018-01-26 09:41:22

Below is generated by plot.py at 2018-01-26 14:14:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 210.02 Mbit/s

95th percentile per-packet one-way delay: 114.574 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 107.61 Mbit/s

95th percentile per-packet one-way delay: 114.571 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 108.51 Mbit/s

95th percentile per-packet one-way delay: 114.521 ms

Loss rate: 1.00%

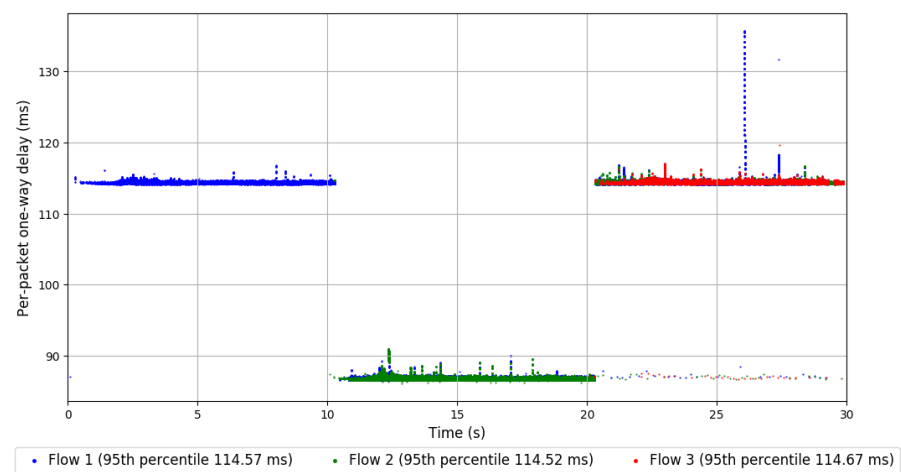
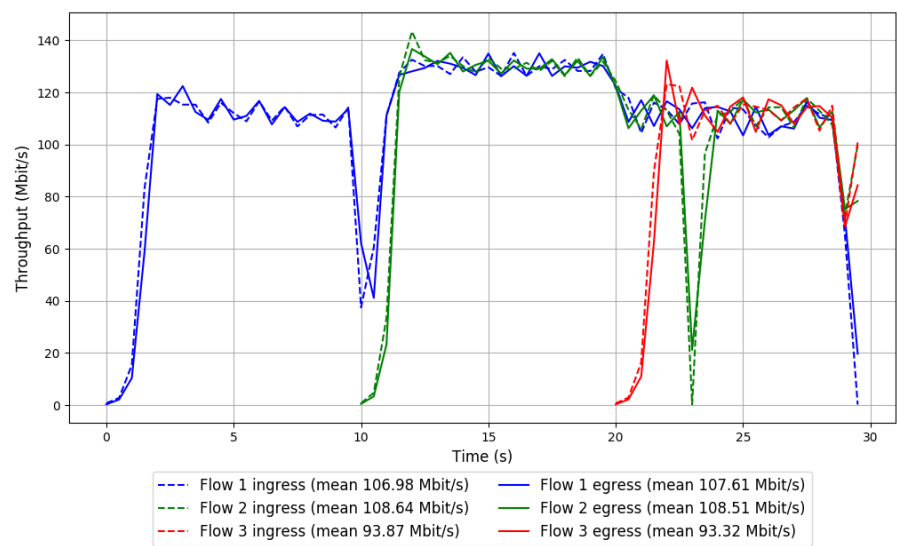
-- Flow 3:

Average throughput: 93.32 Mbit/s

95th percentile per-packet one-way delay: 114.667 ms

Loss rate: 2.33%

Run 3: Report of TCP BBR — Data Link

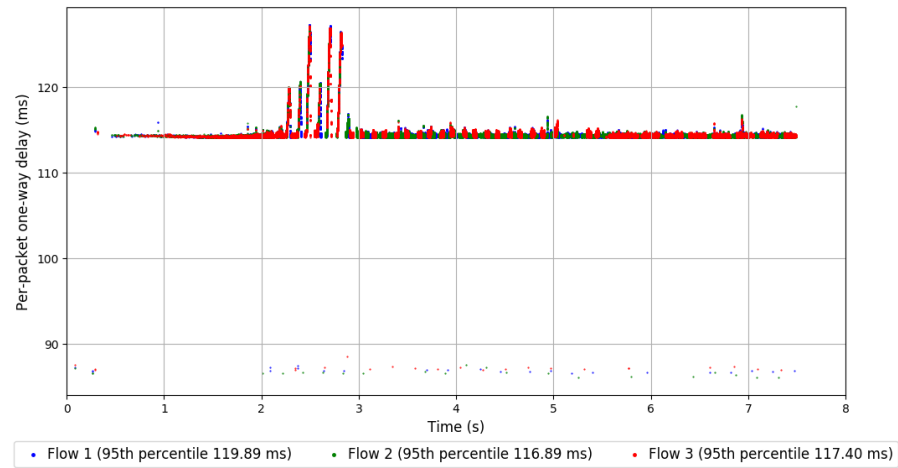
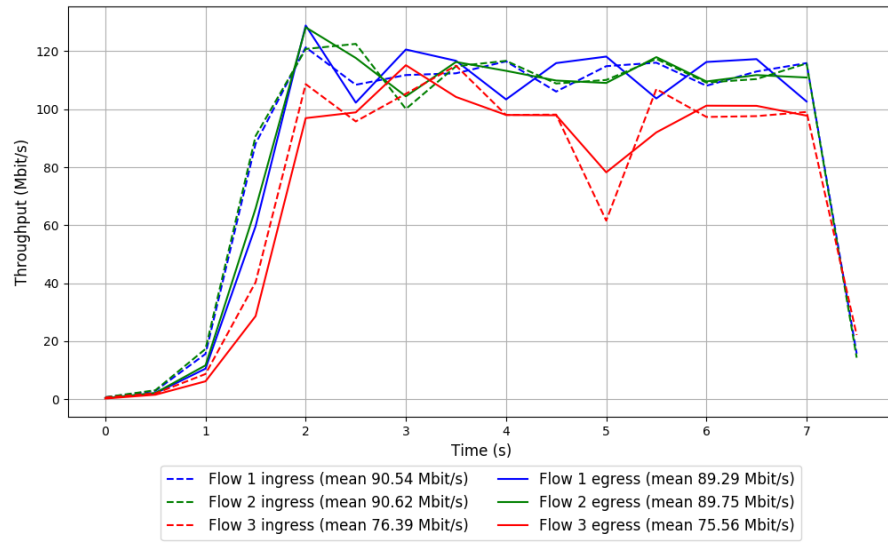


Run 4: Statistics of TCP BBR

Start at: 2018-01-26 09:56:05

End at: 2018-01-26 09:56:35

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-26 10:10:50

End at: 2018-01-26 10:11:20

Below is generated by plot.py at 2018-01-26 14:15:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 235.62 Mbit/s

95th percentile per-packet one-way delay: 87.163 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 122.17 Mbit/s

95th percentile per-packet one-way delay: 87.136 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 116.26 Mbit/s

95th percentile per-packet one-way delay: 87.091 ms

Loss rate: 0.97%

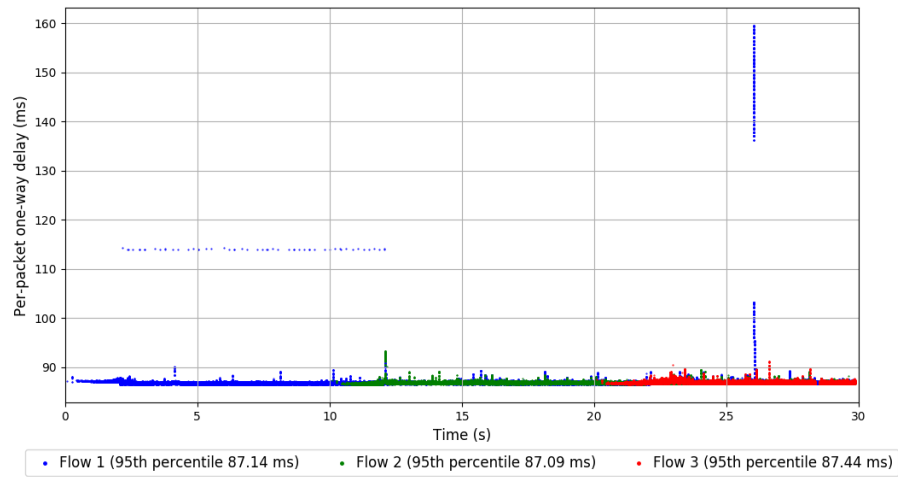
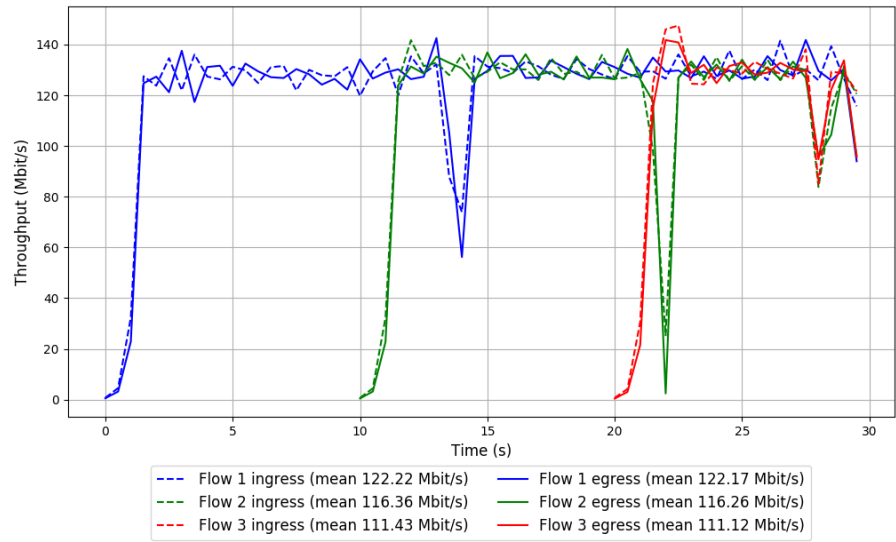
-- Flow 3:

Average throughput: 111.12 Mbit/s

95th percentile per-packet one-way delay: 87.444 ms

Loss rate: 2.04%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-26 10:26:00

End at: 2018-01-26 10:26:30

Below is generated by plot.py at 2018-01-26 14:15:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 214.04 Mbit/s

95th percentile per-packet one-way delay: 114.483 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 117.86 Mbit/s

95th percentile per-packet one-way delay: 114.448 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 96.36 Mbit/s

95th percentile per-packet one-way delay: 114.451 ms

Loss rate: 0.97%

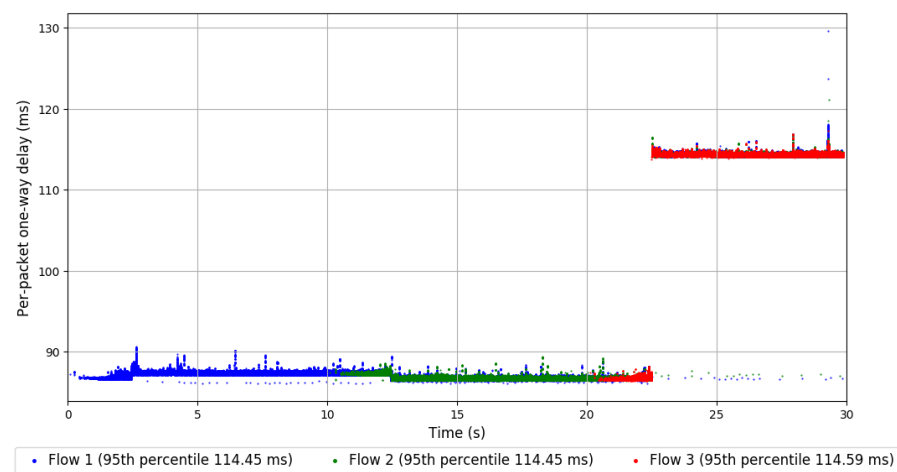
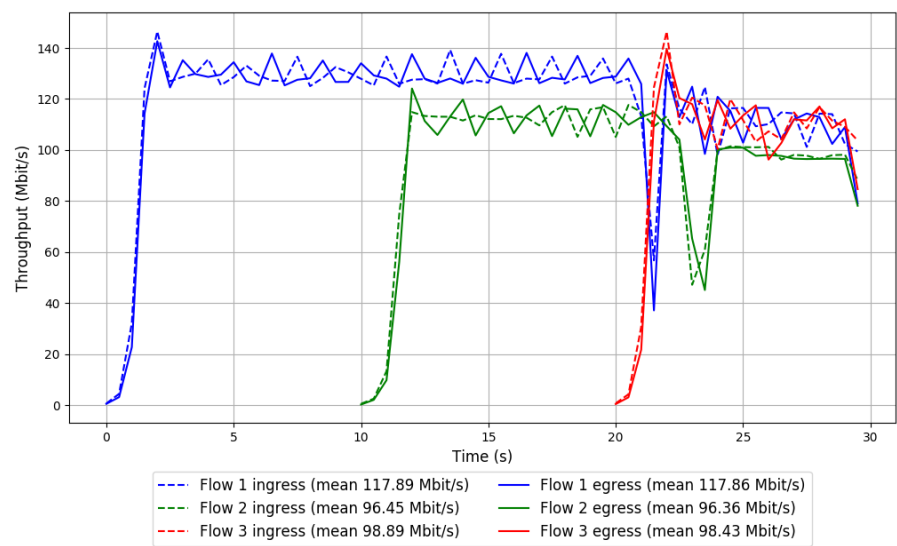
-- Flow 3:

Average throughput: 98.43 Mbit/s

95th percentile per-packet one-way delay: 114.595 ms

Loss rate: 2.21%

Run 6: Report of TCP BBR — Data Link

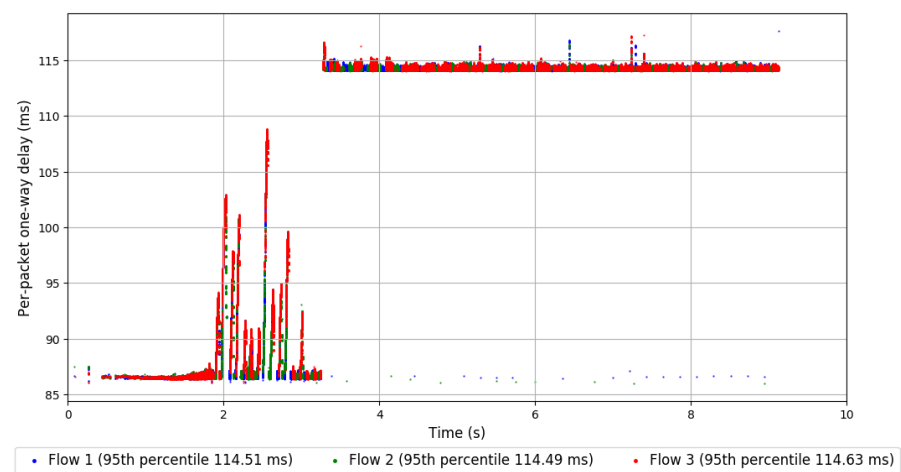
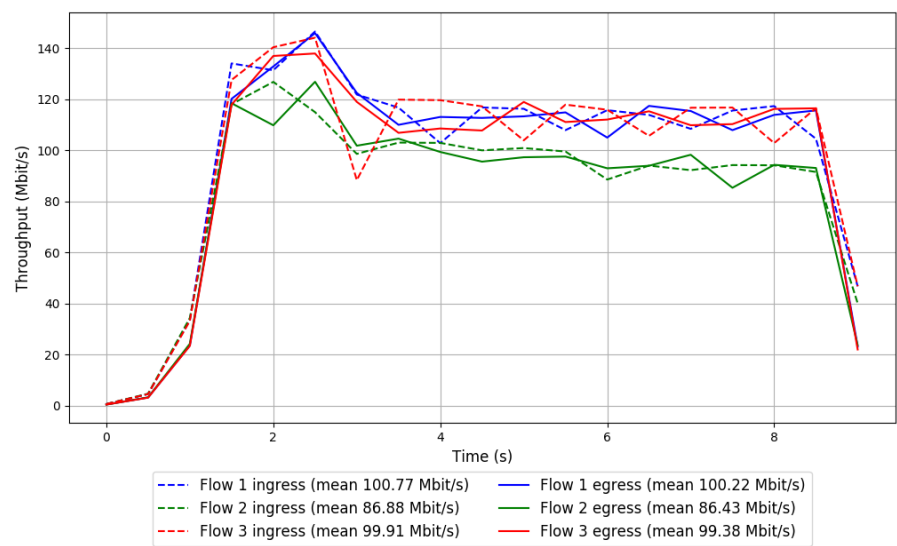


Run 7: Statistics of TCP BBR

Start at: 2018-01-26 10:41:18

End at: 2018-01-26 10:41:48

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-26 10:56:32

End at: 2018-01-26 10:57:02

Below is generated by plot.py at 2018-01-26 14:15:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 225.79 Mbit/s

95th percentile per-packet one-way delay: 114.339 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 116.81 Mbit/s

95th percentile per-packet one-way delay: 114.401 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 117.54 Mbit/s

95th percentile per-packet one-way delay: 87.310 ms

Loss rate: 0.96%

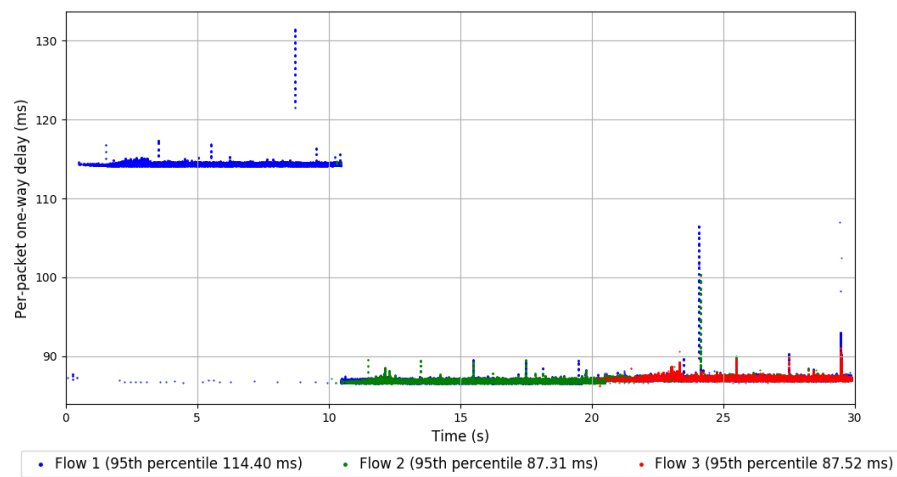
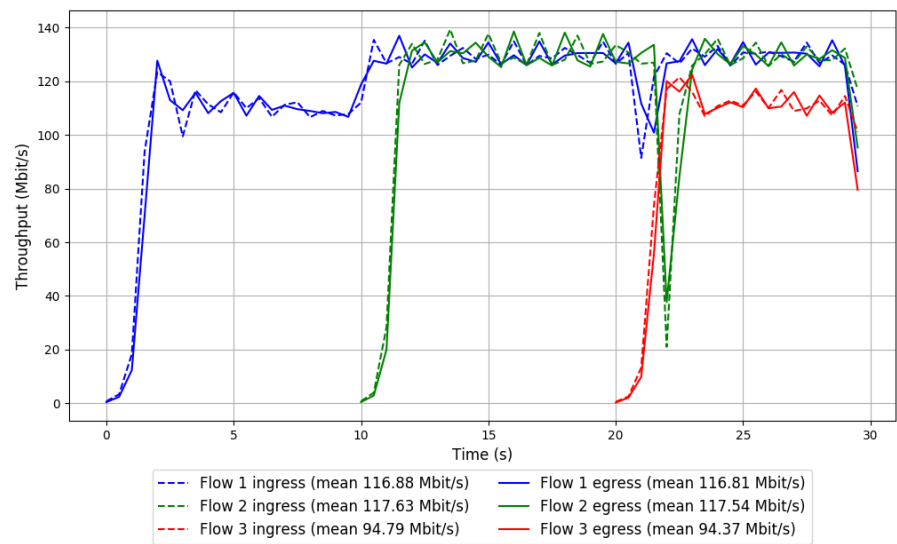
-- Flow 3:

Average throughput: 94.37 Mbit/s

95th percentile per-packet one-way delay: 87.515 ms

Loss rate: 2.19%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-26 11:11:58

End at: 2018-01-26 11:12:28

Below is generated by plot.py at 2018-01-26 14:16:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.85 Mbit/s

95th percentile per-packet one-way delay: 87.608 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 122.43 Mbit/s

95th percentile per-packet one-way delay: 87.316 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 118.27 Mbit/s

95th percentile per-packet one-way delay: 87.456 ms

Loss rate: 0.95%

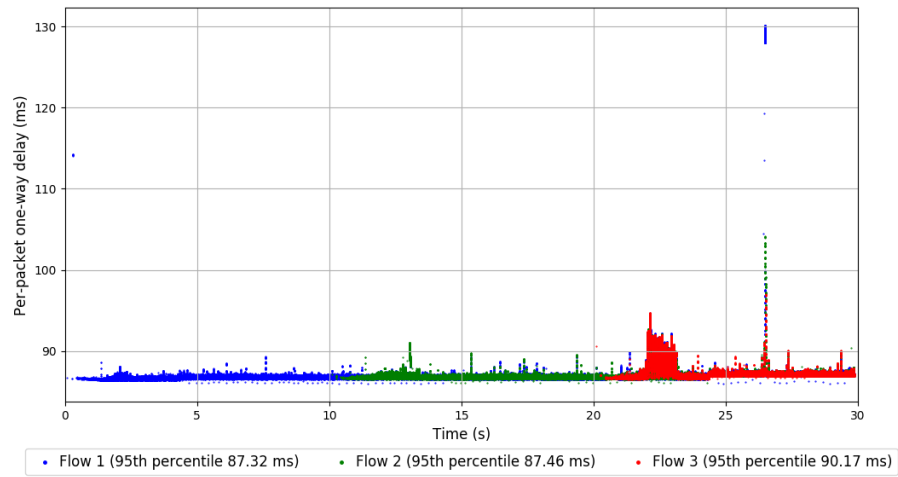
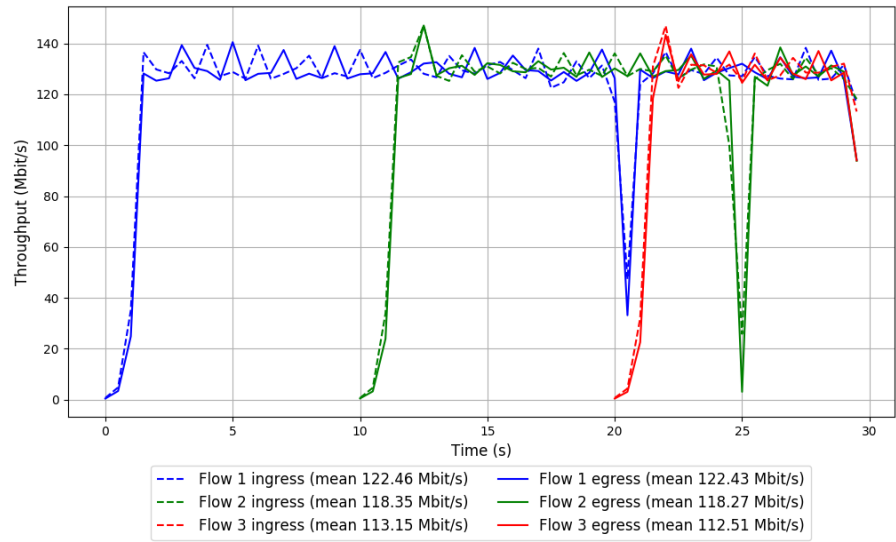
-- Flow 3:

Average throughput: 112.51 Mbit/s

95th percentile per-packet one-way delay: 90.172 ms

Loss rate: 2.05%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-26 11:27:38

End at: 2018-01-26 11:28:08

Below is generated by plot.py at 2018-01-26 14:16:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 214.39 Mbit/s

95th percentile per-packet one-way delay: 114.525 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 108.73 Mbit/s

95th percentile per-packet one-way delay: 114.515 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 110.77 Mbit/s

95th percentile per-packet one-way delay: 114.537 ms

Loss rate: 1.00%

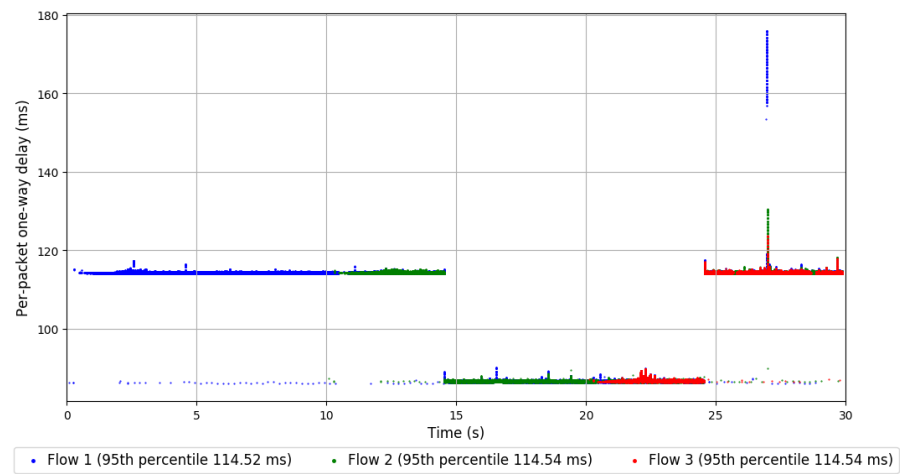
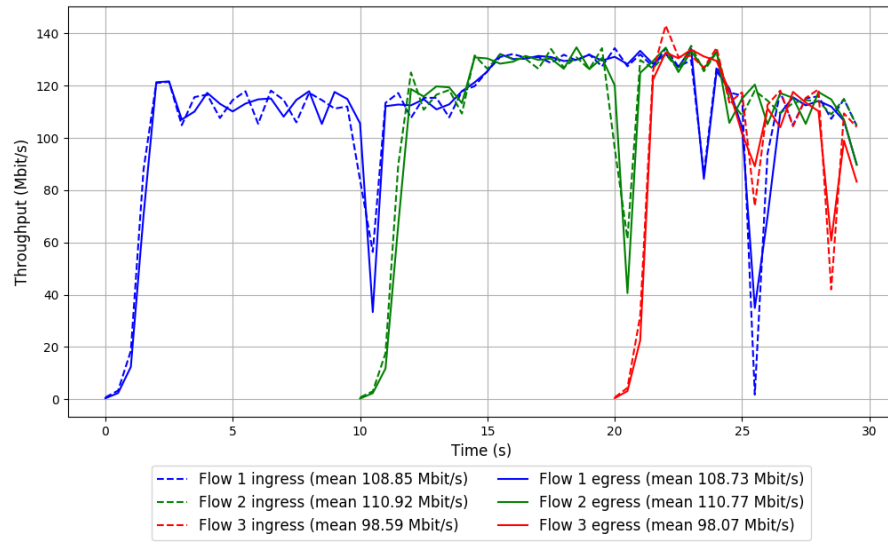
-- Flow 3:

Average throughput: 98.07 Mbit/s

95th percentile per-packet one-way delay: 114.537 ms

Loss rate: 2.28%

Run 10: Report of TCP BBR — Data Link

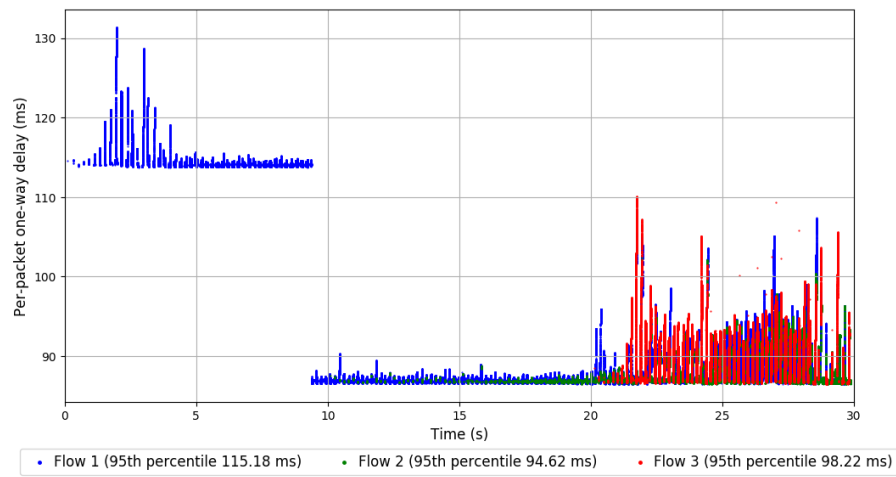
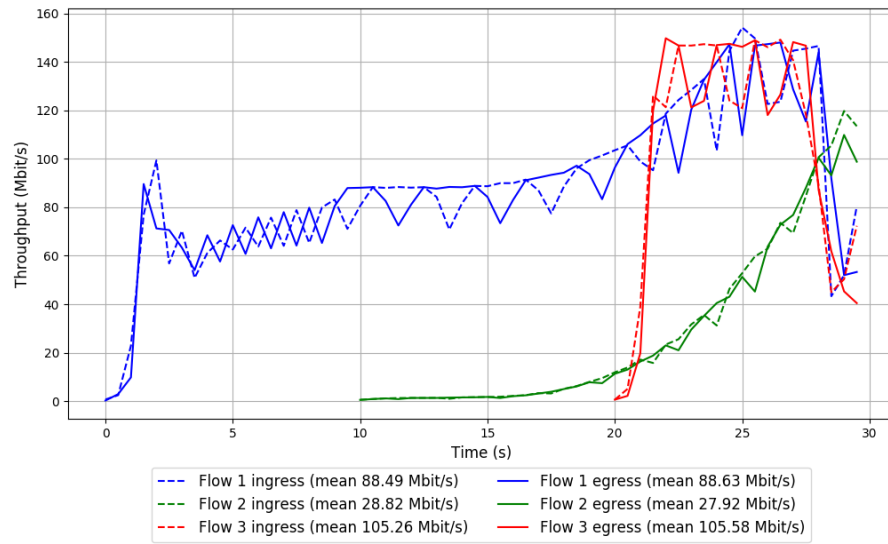


```
Run 1: Statistics of TCP Cubic

Start at: 2018-01-26 09:15:43
End at: 2018-01-26 09:16:13

# Below is generated by plot.py at 2018-01-26 14:16:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 141.57 Mbit/s
95th percentile per-packet one-way delay: 114.425 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 88.63 Mbit/s
95th percentile per-packet one-way delay: 115.176 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 27.92 Mbit/s
95th percentile per-packet one-way delay: 94.623 ms
Loss rate: 3.97%
-- Flow 3:
Average throughput: 105.58 Mbit/s
95th percentile per-packet one-way delay: 98.219 ms
Loss rate: 1.77%
```

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-26 09:31:06

End at: 2018-01-26 09:31:36

Below is generated by plot.py at 2018-01-26 14:17:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 157.37 Mbit/s

95th percentile per-packet one-way delay: 94.596 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 69.26 Mbit/s

95th percentile per-packet one-way delay: 91.669 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 93.89 Mbit/s

95th percentile per-packet one-way delay: 95.683 ms

Loss rate: 0.60%

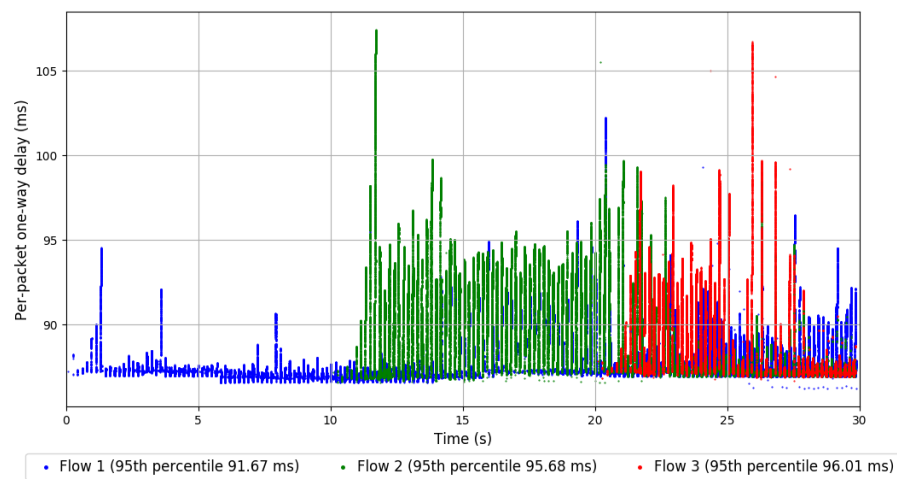
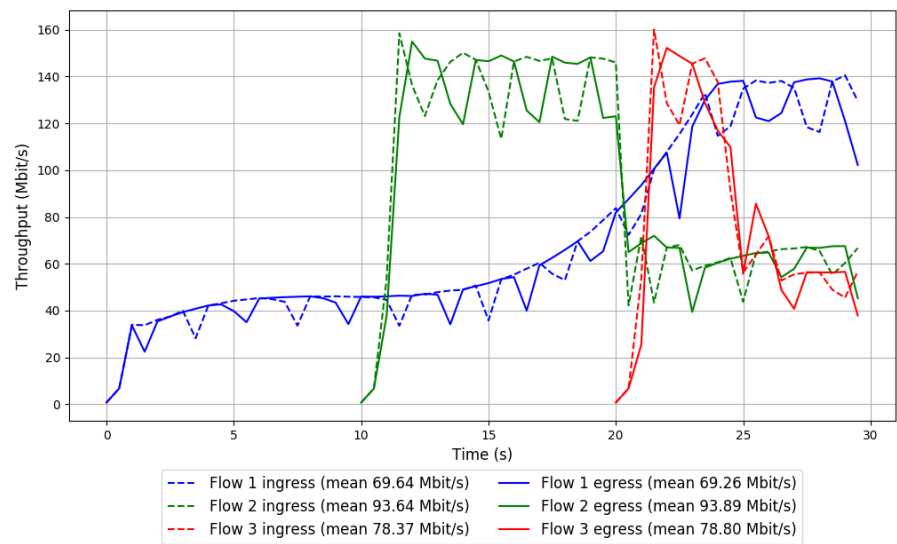
-- Flow 3:

Average throughput: 78.80 Mbit/s

95th percentile per-packet one-way delay: 96.009 ms

Loss rate: 1.22%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-26 09:46:15

End at: 2018-01-26 09:46:45

Below is generated by plot.py at 2018-01-26 14:17:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.21 Mbit/s

95th percentile per-packet one-way delay: 121.357 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 16.82 Mbit/s

95th percentile per-packet one-way delay: 4989.140 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 75.45 Mbit/s

95th percentile per-packet one-way delay: 121.671 ms

Loss rate: 0.76%

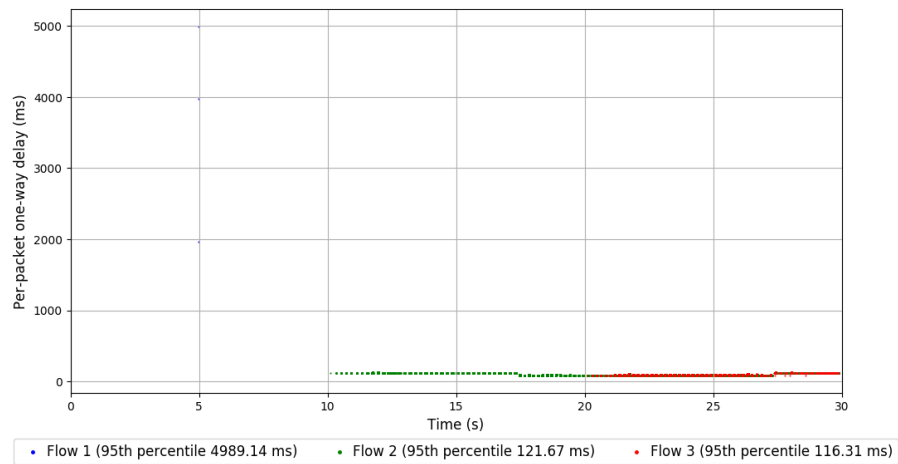
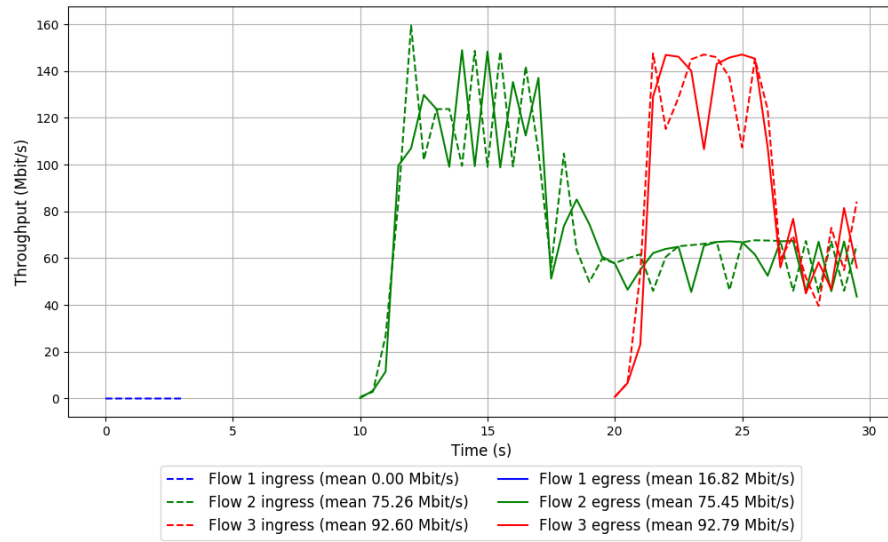
-- Flow 3:

Average throughput: 92.79 Mbit/s

95th percentile per-packet one-way delay: 116.310 ms

Loss rate: 1.55%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-26 10:01:07

End at: 2018-01-26 10:01:37

Below is generated by plot.py at 2018-01-26 14:17:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 140.29 Mbit/s

95th percentile per-packet one-way delay: 124.795 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 83.29 Mbit/s

95th percentile per-packet one-way delay: 126.767 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 30.86 Mbit/s

95th percentile per-packet one-way delay: 120.868 ms

Loss rate: 1.90%

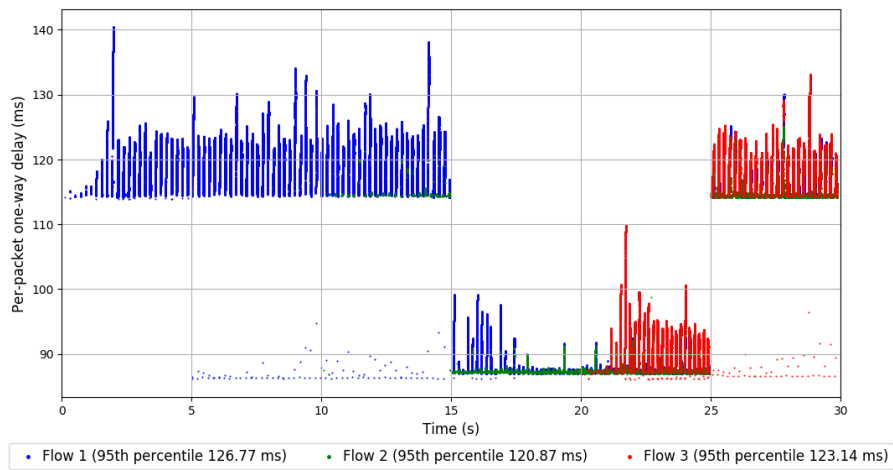
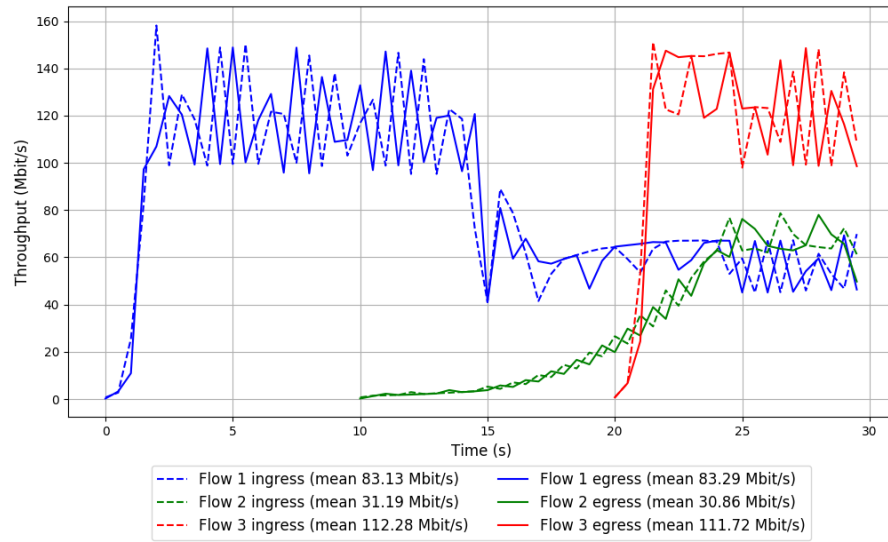
-- Flow 3:

Average throughput: 111.72 Mbit/s

95th percentile per-packet one-way delay: 123.138 ms

Loss rate: 2.22%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-26 10:16:18

End at: 2018-01-26 10:16:48

Below is generated by plot.py at 2018-01-26 14:18:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 171.95 Mbit/s

95th percentile per-packet one-way delay: 96.870 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 79.25 Mbit/s

95th percentile per-packet one-way delay: 95.471 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 93.50 Mbit/s

95th percentile per-packet one-way delay: 97.690 ms

Loss rate: 0.60%

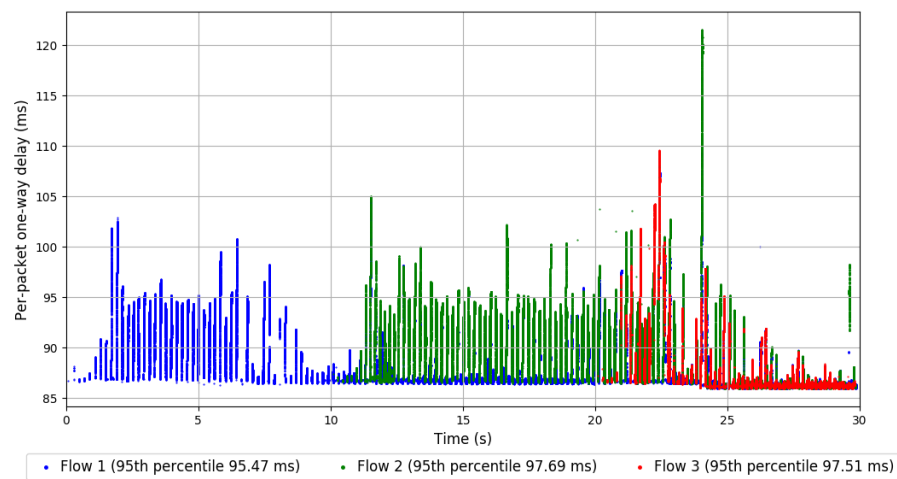
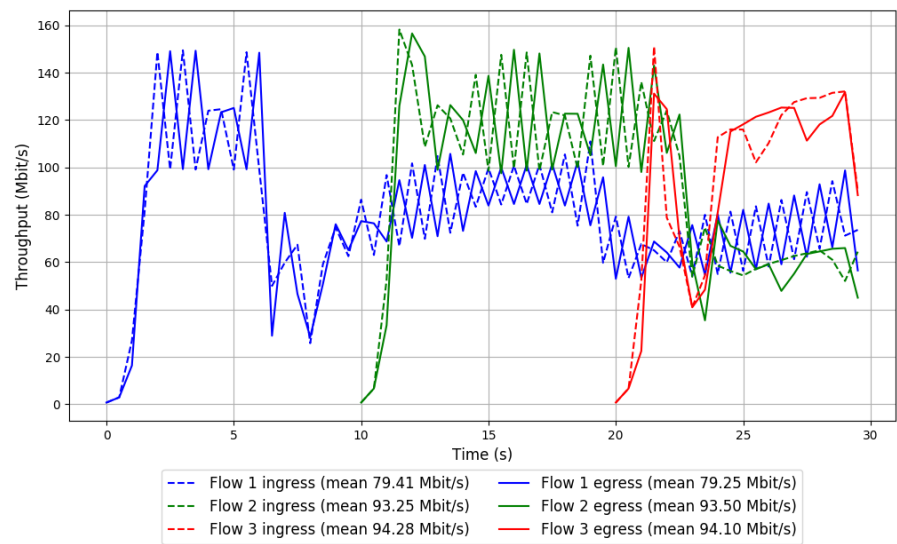
-- Flow 3:

Average throughput: 94.10 Mbit/s

95th percentile per-packet one-way delay: 97.507 ms

Loss rate: 2.38%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-26 10:31:02

End at: 2018-01-26 10:31:32

Below is generated by plot.py at 2018-01-26 14:18:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 179.69 Mbit/s

95th percentile per-packet one-way delay: 96.092 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 90.98 Mbit/s

95th percentile per-packet one-way delay: 95.527 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 80.26 Mbit/s

95th percentile per-packet one-way delay: 96.354 ms

Loss rate: 0.74%

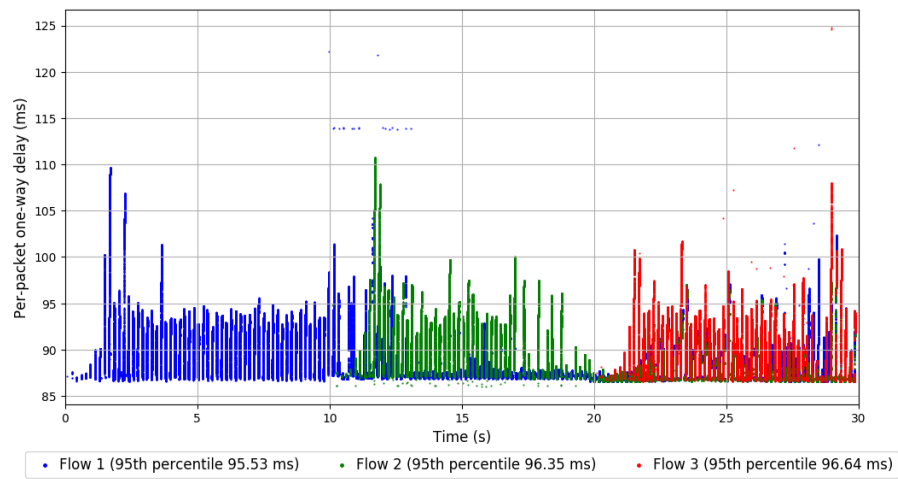
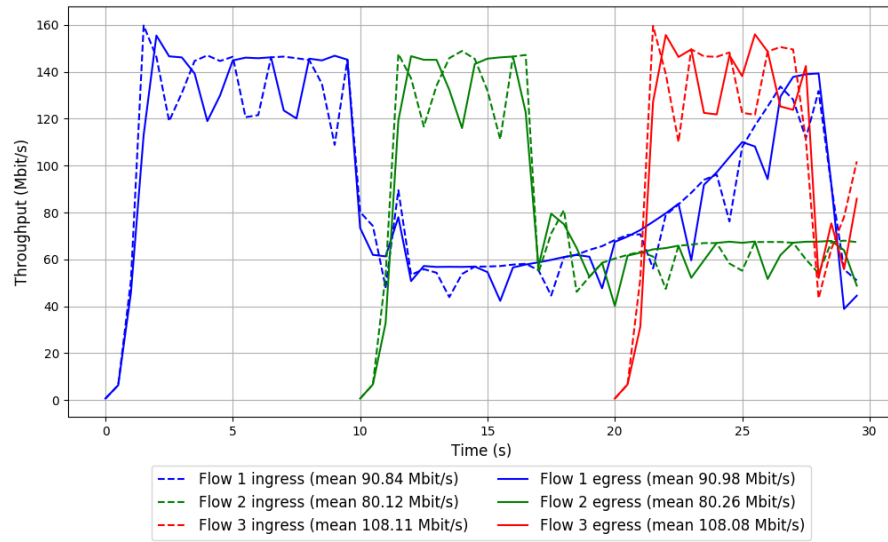
-- Flow 3:

Average throughput: 108.08 Mbit/s

95th percentile per-packet one-way delay: 96.637 ms

Loss rate: 1.77%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-26 10:46:45

End at: 2018-01-26 10:47:15

Below is generated by plot.py at 2018-01-26 14:18:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.85 Mbit/s

95th percentile per-packet one-way delay: 114.694 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 65.75 Mbit/s

95th percentile per-packet one-way delay: 114.936 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 38.97 Mbit/s

95th percentile per-packet one-way delay: 99.249 ms

Loss rate: 1.76%

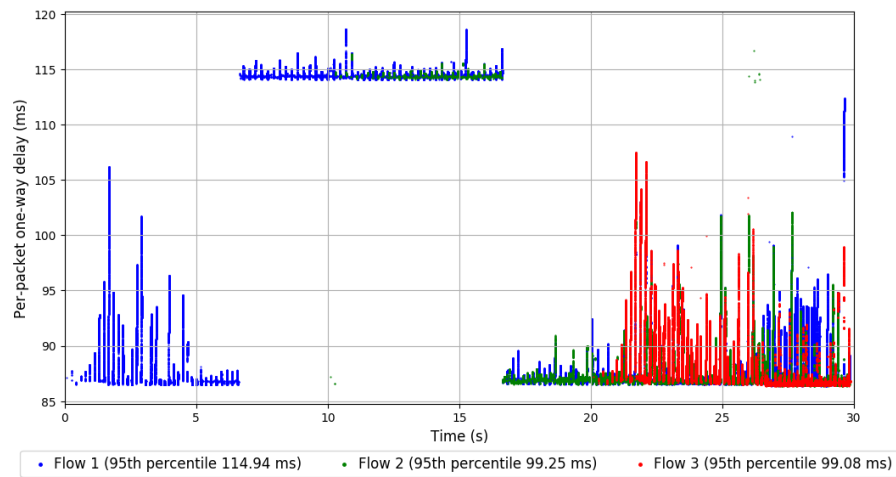
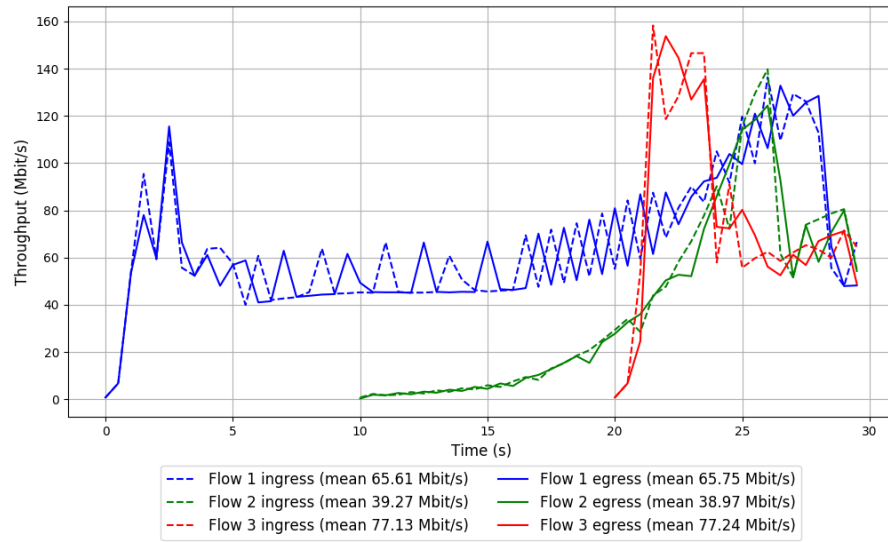
-- Flow 3:

Average throughput: 77.24 Mbit/s

95th percentile per-packet one-way delay: 99.085 ms

Loss rate: 1.61%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-26 11:02:09

End at: 2018-01-26 11:02:39

Below is generated by plot.py at 2018-01-26 14:19:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 151.26 Mbit/s

95th percentile per-packet one-way delay: 96.959 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 83.50 Mbit/s

95th percentile per-packet one-way delay: 97.247 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 67.72 Mbit/s

95th percentile per-packet one-way delay: 96.659 ms

Loss rate: 0.94%

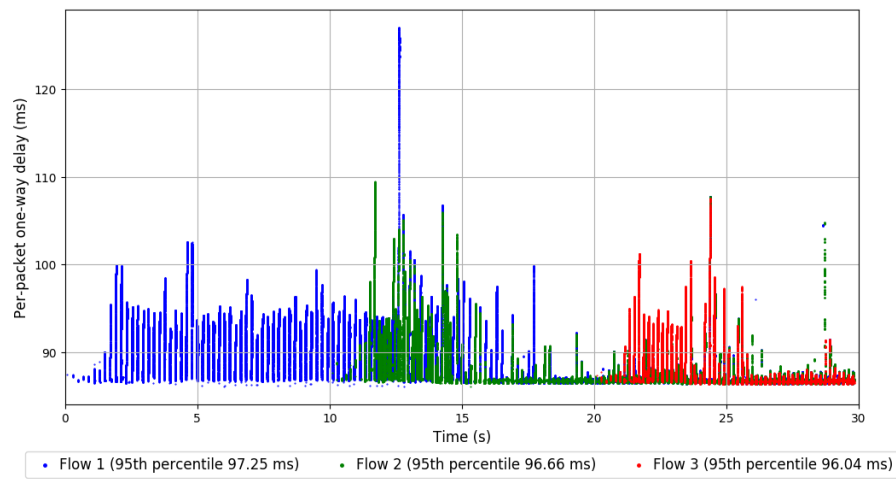
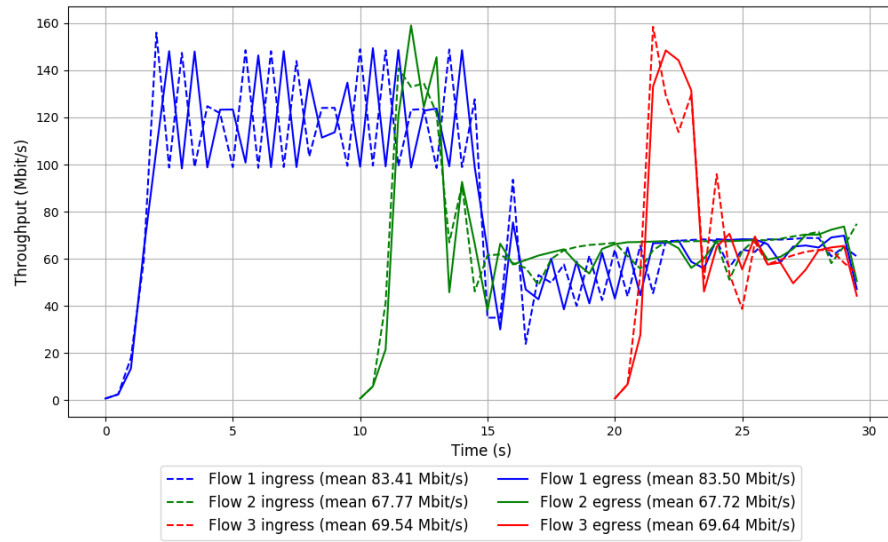
-- Flow 3:

Average throughput: 69.64 Mbit/s

95th percentile per-packet one-way delay: 96.043 ms

Loss rate: 1.61%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-26 11:17:31

End at: 2018-01-26 11:18:01

Below is generated by plot.py at 2018-01-26 14:20:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 205.23 Mbit/s

95th percentile per-packet one-way delay: 96.001 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 124.46 Mbit/s

95th percentile per-packet one-way delay: 95.661 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 87.66 Mbit/s

95th percentile per-packet one-way delay: 97.436 ms

Loss rate: 0.96%

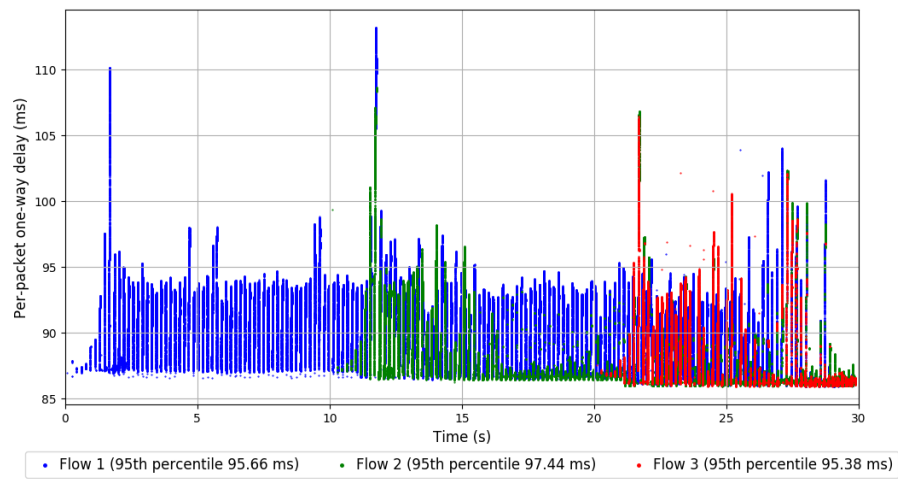
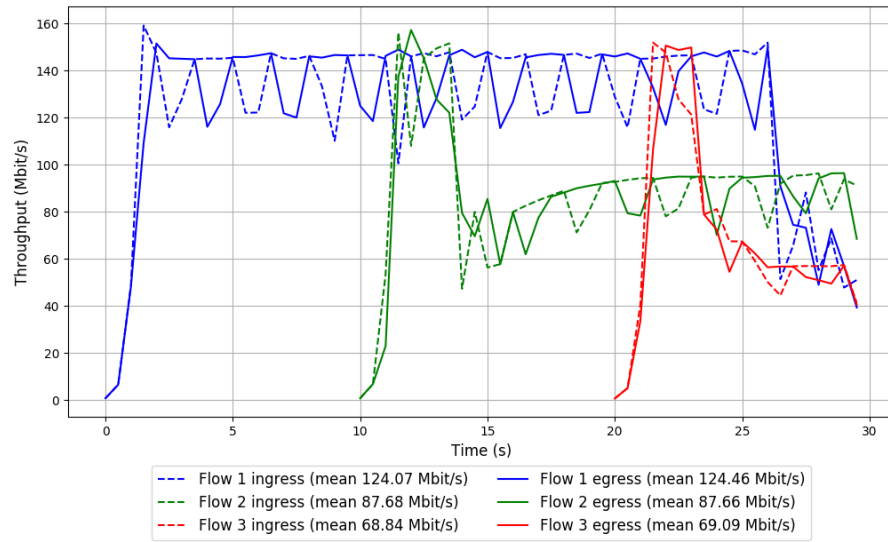
-- Flow 3:

Average throughput: 69.09 Mbit/s

95th percentile per-packet one-way delay: 95.375 ms

Loss rate: 1.40%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-26 11:33:19

End at: 2018-01-26 11:33:49

Below is generated by plot.py at 2018-01-26 14:20:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 167.33 Mbit/s

95th percentile per-packet one-way delay: 97.018 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 122.69 Mbit/s

95th percentile per-packet one-way delay: 96.808 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 13.93 Mbit/s

95th percentile per-packet one-way delay: 92.852 ms

Loss rate: 2.28%

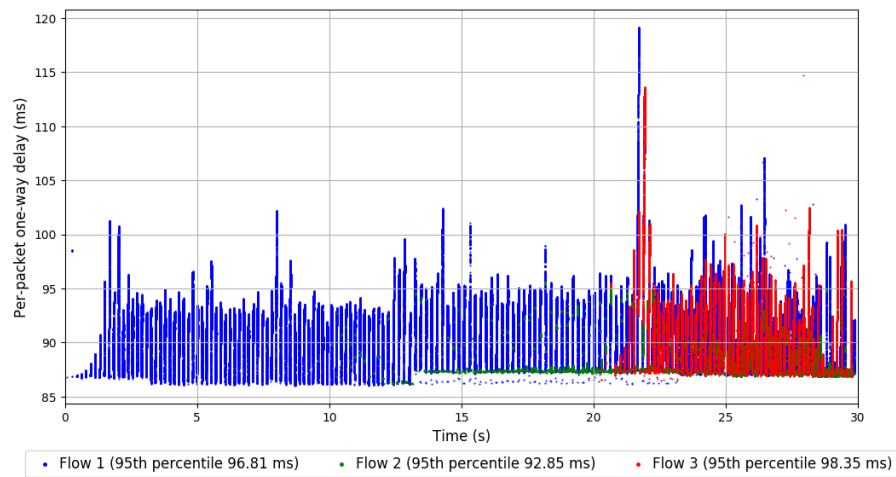
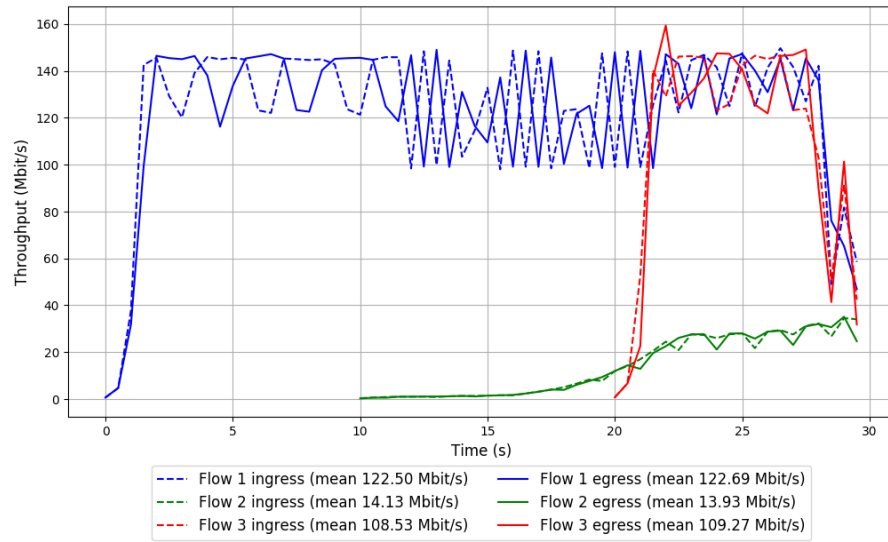
-- Flow 3:

Average throughput: 109.27 Mbit/s

95th percentile per-packet one-way delay: 98.351 ms

Loss rate: 1.11%

Run 10: Report of TCP Cubic — Data Link

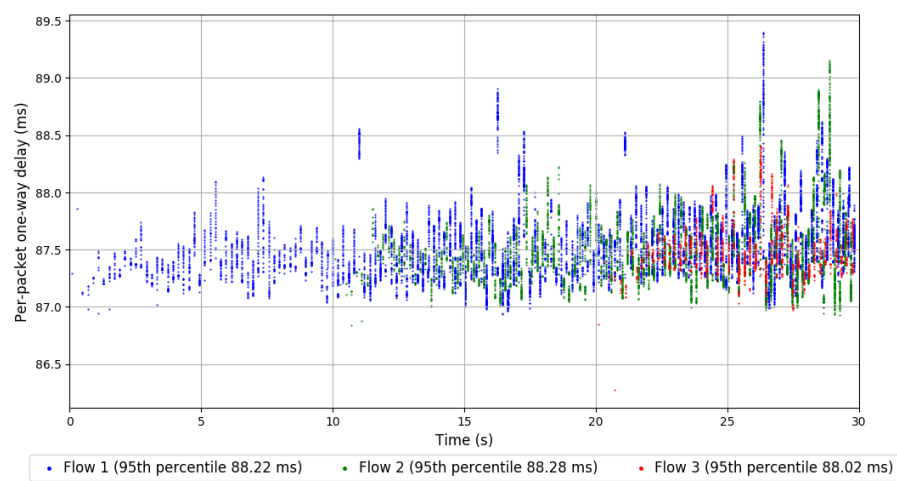
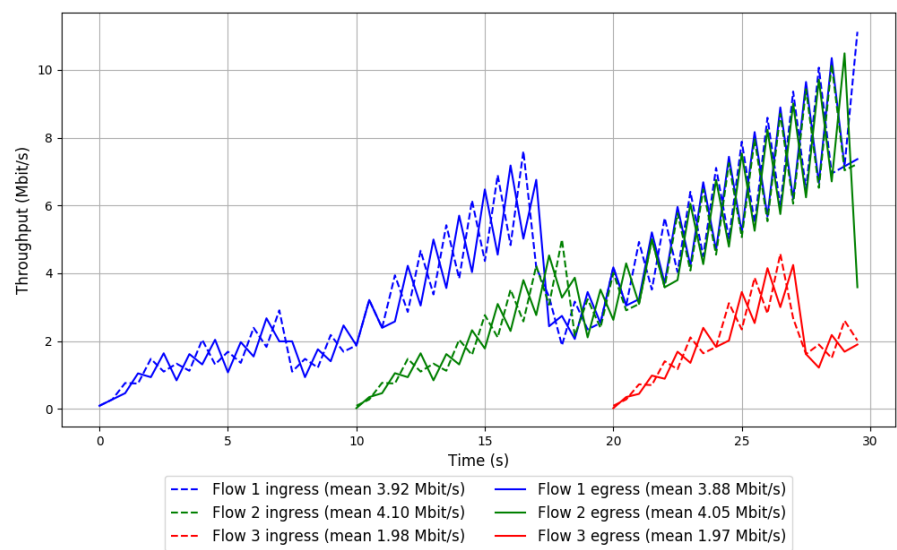


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-26 09:04:35
End at: 2018-01-26 09:05:05

# Below is generated by plot.py at 2018-01-26 14:20:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.19 Mbit/s
95th percentile per-packet one-way delay: 88.216 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 88.221 ms
Loss rate: 1.61%
-- Flow 2:
Average throughput: 4.05 Mbit/s
95th percentile per-packet one-way delay: 88.284 ms
Loss rate: 2.24%
-- Flow 3:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 88.019 ms
Loss rate: 2.65%
```


Run 1: Report of LEDBAT — Data Link

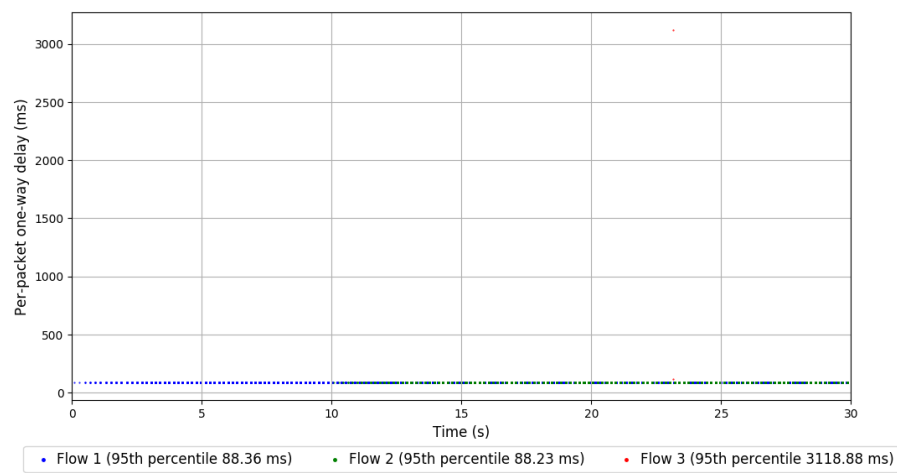
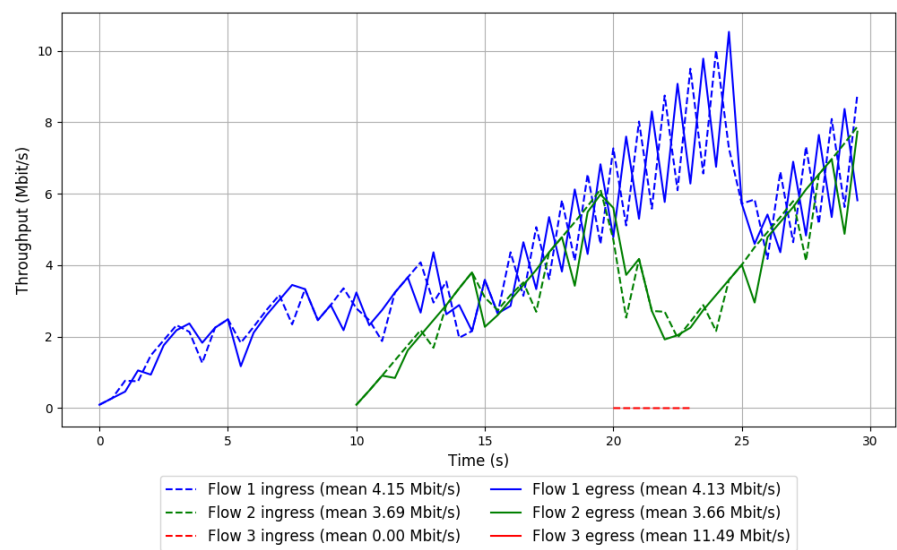


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-26 09:20:08
End at: 2018-01-26 09:20:38

# Below is generated by plot.py at 2018-01-26 14:20:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.55 Mbit/s
95th percentile per-packet one-way delay: 88.323 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 88.362 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 3.66 Mbit/s
95th percentile per-packet one-way delay: 88.228 ms
Loss rate: 1.82%
-- Flow 3:
Average throughput: 11.49 Mbit/s
95th percentile per-packet one-way delay: 3118.881 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-26 09:35:45

End at: 2018-01-26 09:36:15

Below is generated by plot.py at 2018-01-26 14:20:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.51 Mbit/s

95th percentile per-packet one-way delay: 88.352 ms

Loss rate: 1.74%

-- Flow 1:

Average throughput: 6.99 Mbit/s

95th percentile per-packet one-way delay: 88.473 ms

Loss rate: 1.45%

-- Flow 2:

Average throughput: 2.56 Mbit/s

95th percentile per-packet one-way delay: 88.101 ms

Loss rate: 1.63%

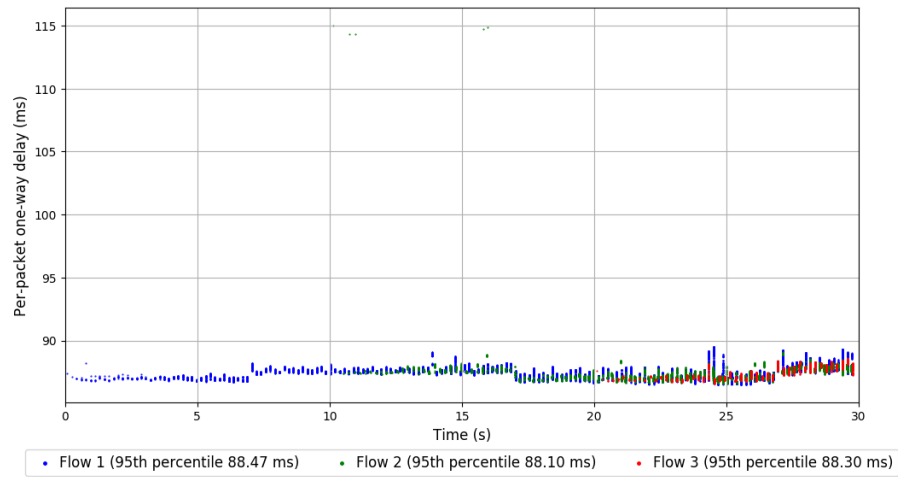
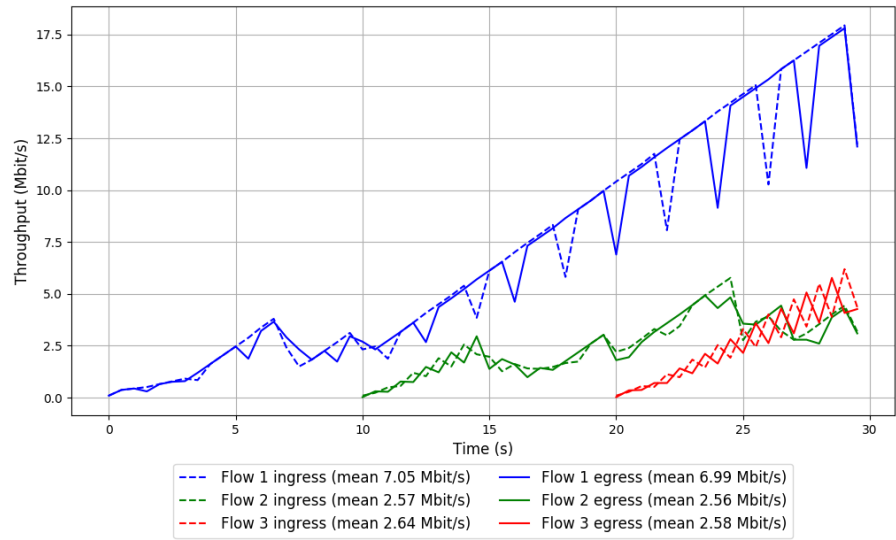
-- Flow 3:

Average throughput: 2.58 Mbit/s

95th percentile per-packet one-way delay: 88.296 ms

Loss rate: 4.23%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-26 09:50:53

End at: 2018-01-26 09:51:23

Below is generated by plot.py at 2018-01-26 14:20:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.45 Mbit/s

95th percentile per-packet one-way delay: 115.417 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 5.35 Mbit/s

95th percentile per-packet one-way delay: 115.537 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 3.79 Mbit/s

95th percentile per-packet one-way delay: 115.144 ms

Loss rate: 2.23%

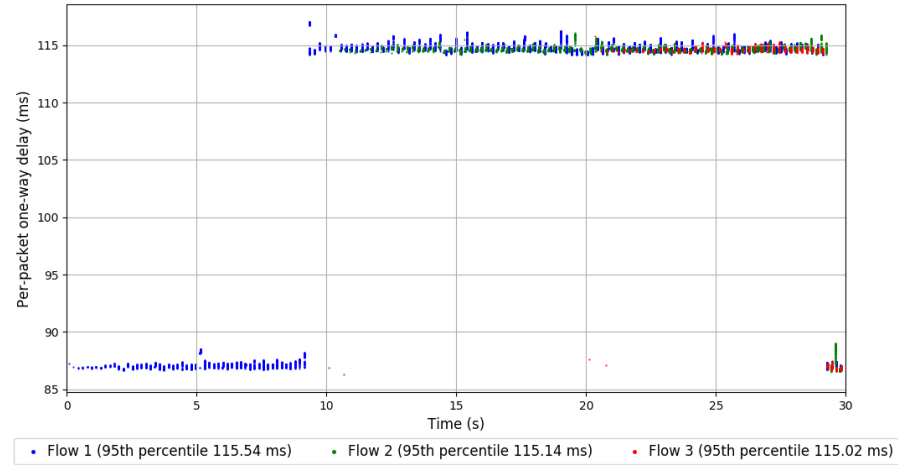
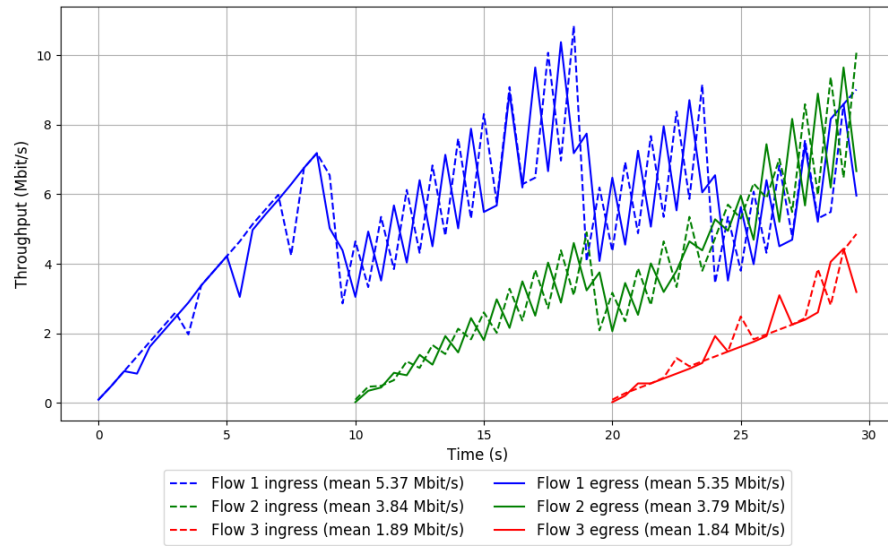
-- Flow 3:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 115.022 ms

Loss rate: 4.45%

Run 4: Report of LEDBAT — Data Link

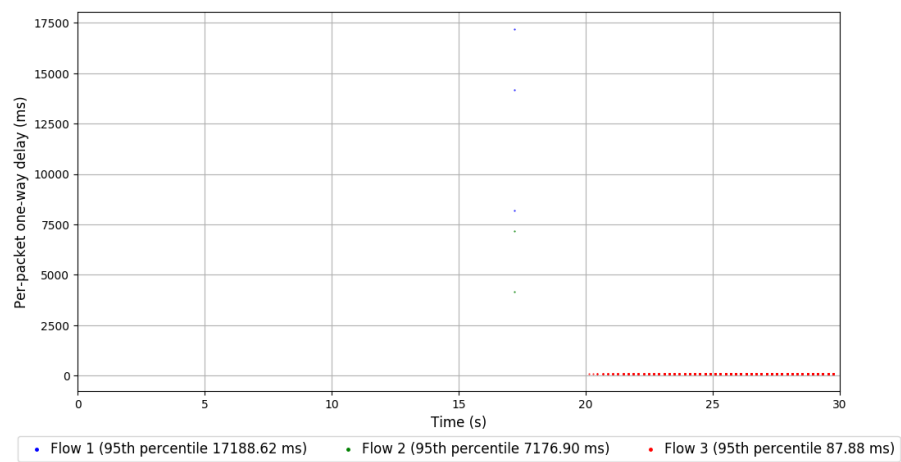
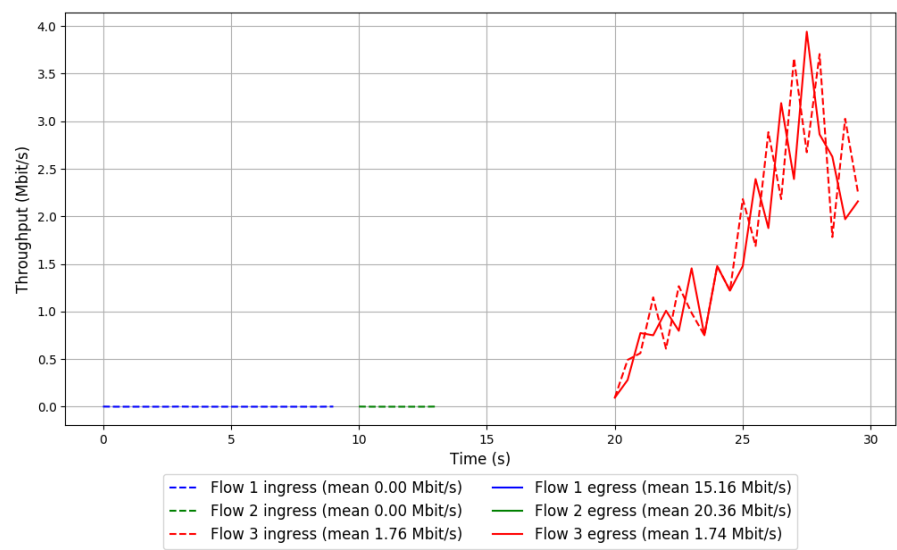


Run 5: Statistics of LEDBAT

Start at: 2018-01-26 10:05:40

End at: 2018-01-26 10:06:10

Run 5: Report of LEDBAT — Data Link

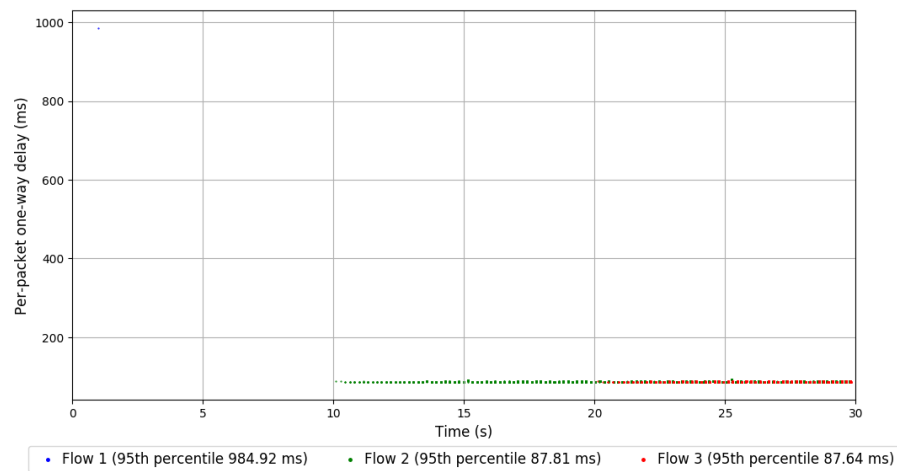
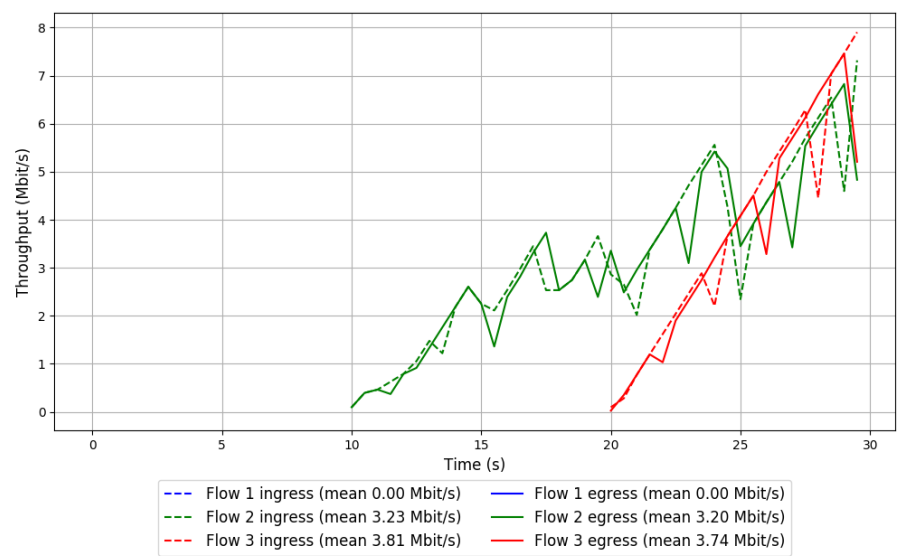


```
Run 6: Statistics of LEDBAT

Start at: 2018-01-26 10:21:00
End at: 2018-01-26 10:21:30

# Below is generated by plot.py at 2018-01-26 14:20:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.44 Mbit/s
95th percentile per-packet one-way delay: 87.757 ms
Loss rate: 2.55%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 984.917 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.20 Mbit/s
95th percentile per-packet one-way delay: 87.807 ms
Loss rate: 1.94%
-- Flow 3:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 87.640 ms
Loss rate: 3.59%
```

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-26 10:35:58

End at: 2018-01-26 10:36:28

Below is generated by plot.py at 2018-01-26 14:20:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.42 Mbit/s

95th percentile per-packet one-way delay: 114.887 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 5.02 Mbit/s

95th percentile per-packet one-way delay: 114.968 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 2.68 Mbit/s

95th percentile per-packet one-way delay: 114.806 ms

Loss rate: 2.12%

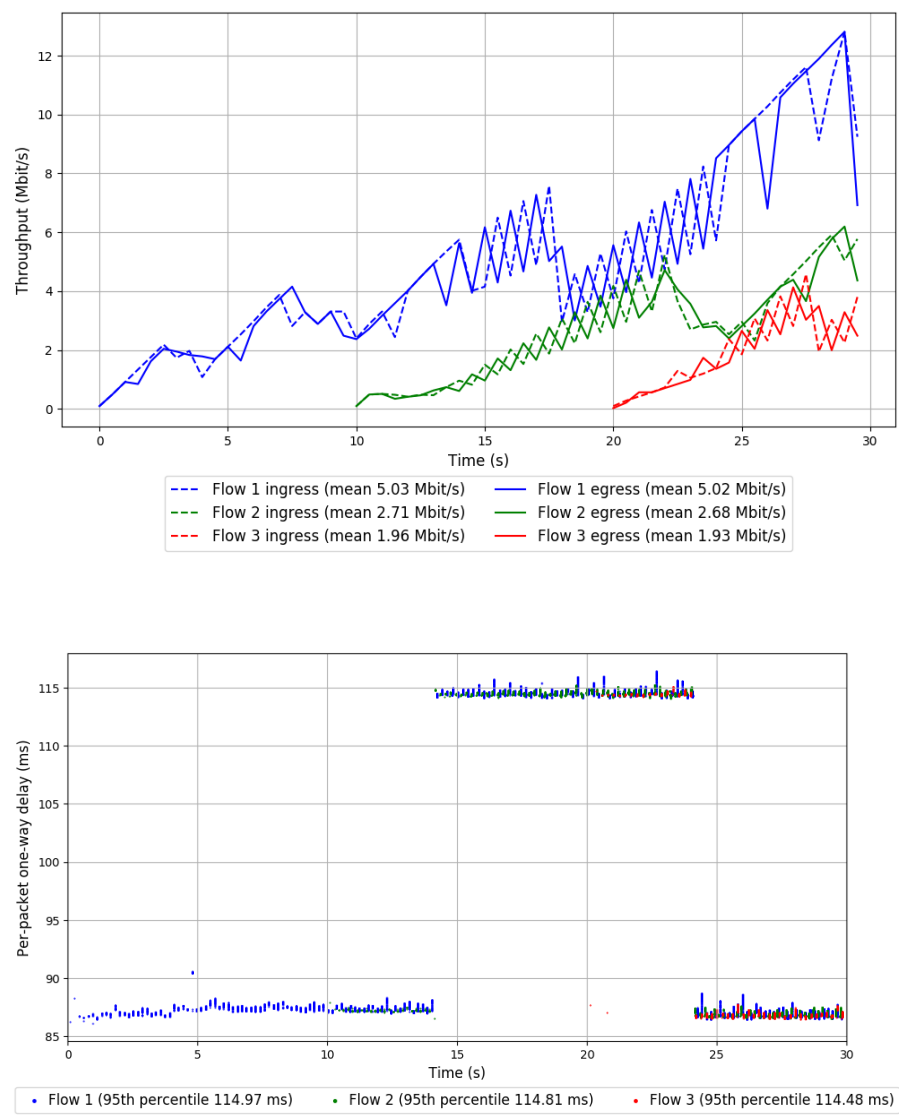
-- Flow 3:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 114.484 ms

Loss rate: 3.38%

Run 7: Report of LEDBAT — Data Link

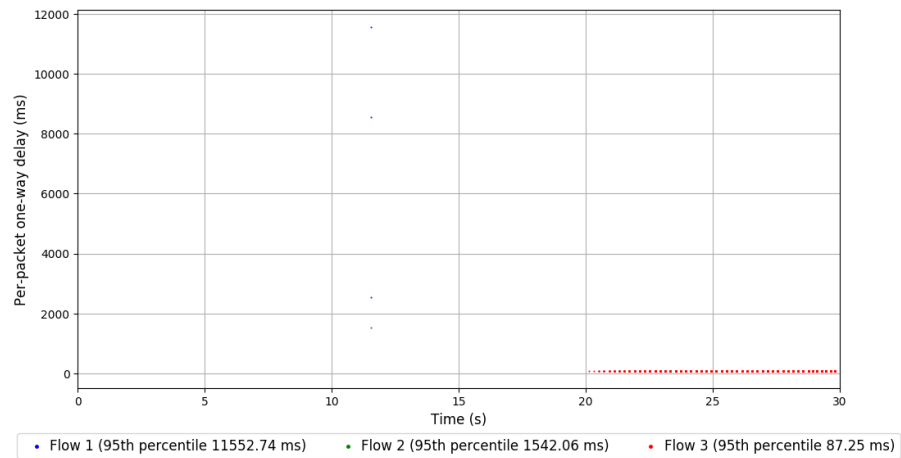
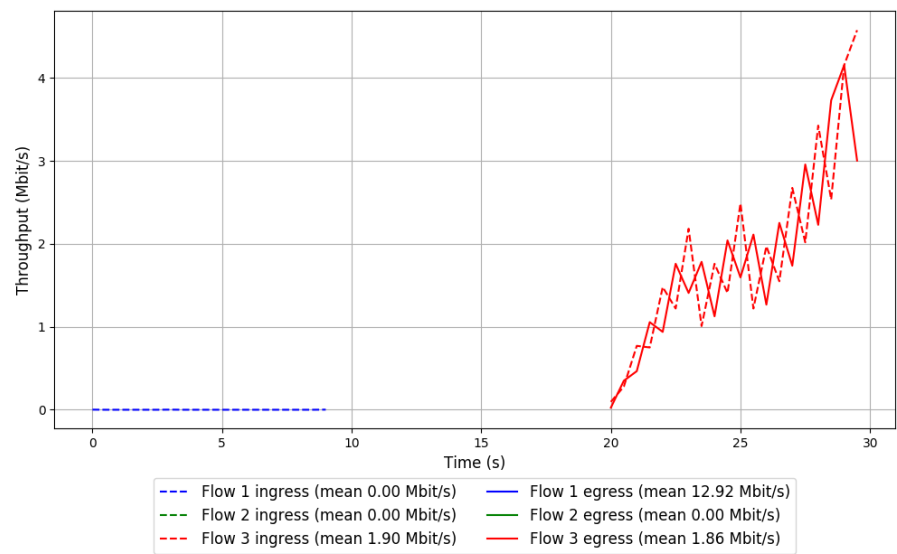


Run 8: Statistics of LEDBAT

Start at: 2018-01-26 10:51:22

End at: 2018-01-26 10:51:52

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-26 11:06:57

End at: 2018-01-26 11:07:27

Below is generated by plot.py at 2018-01-26 14:20:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.96 Mbit/s

95th percentile per-packet one-way delay: 87.327 ms

Loss rate: 2.23%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 296.115 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.10 Mbit/s

95th percentile per-packet one-way delay: 87.408 ms

Loss rate: 1.40%

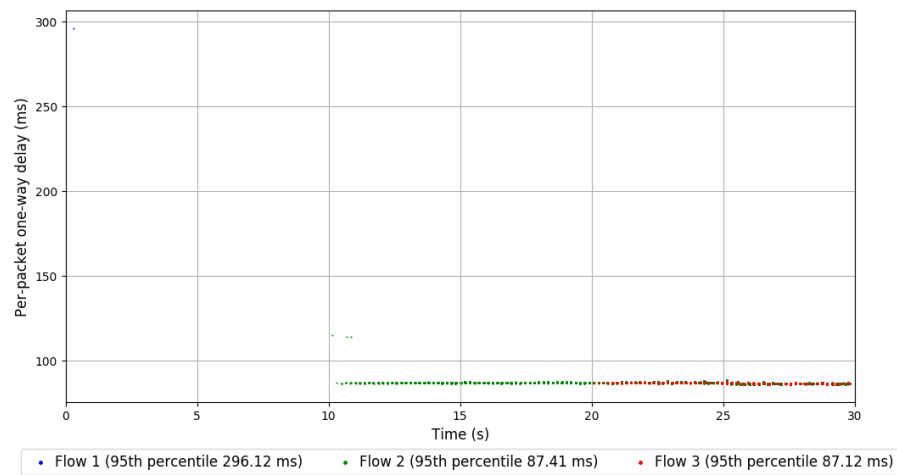
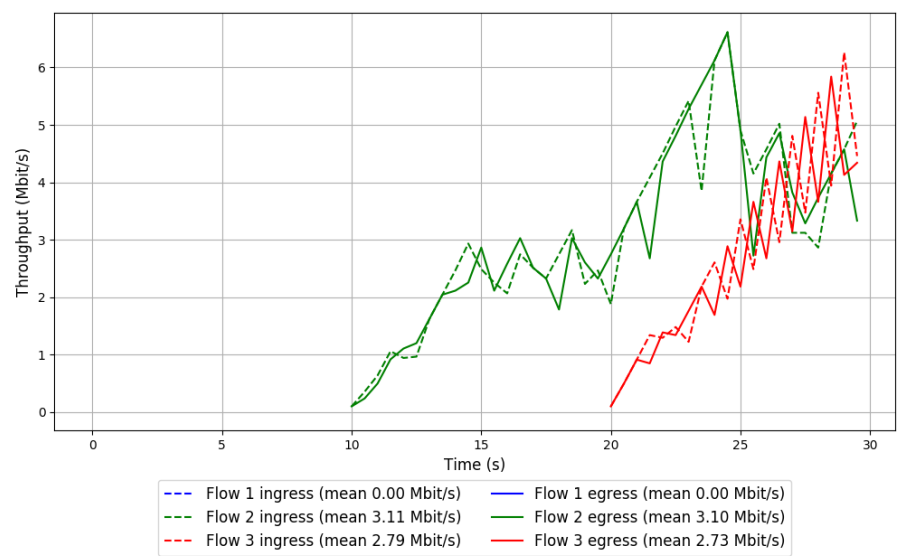
-- Flow 3:

Average throughput: 2.73 Mbit/s

95th percentile per-packet one-way delay: 87.121 ms

Loss rate: 4.10%

Run 9: Report of LEDBAT — Data Link

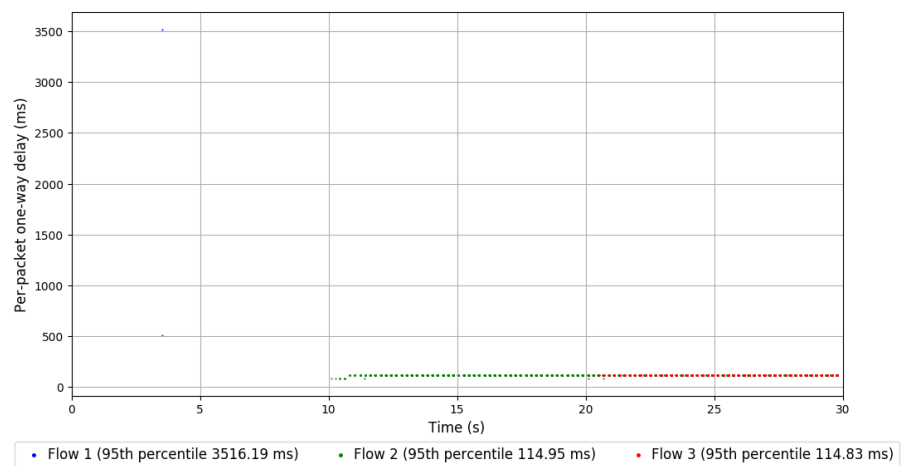
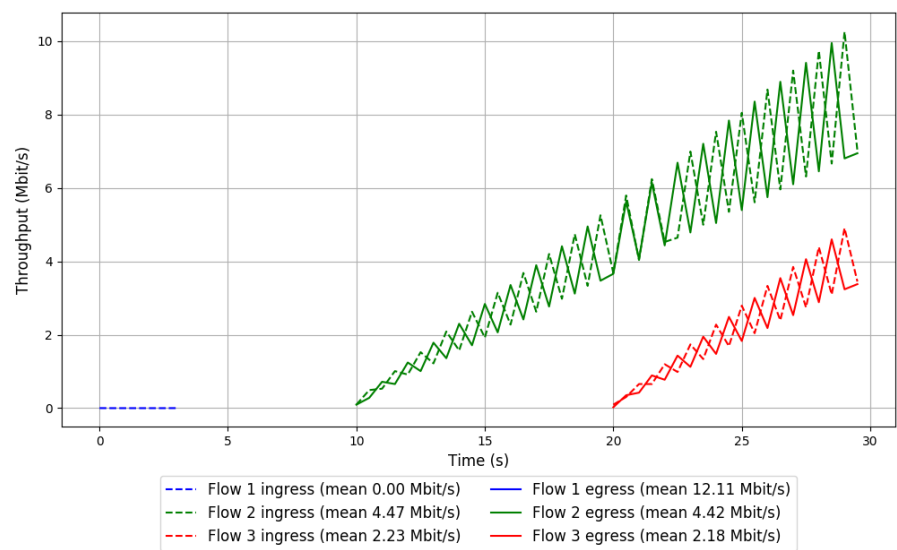


```
Run 10: Statistics of LEDBAT

Start at: 2018-01-26 11:22:21
End at: 2018-01-26 11:22:51

# Below is generated by plot.py at 2018-01-26 14:20:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 114.919 ms
Loss rate: 2.37%
-- Flow 1:
Average throughput: 12.11 Mbit/s
95th percentile per-packet one-way delay: 3516.188 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.42 Mbit/s
95th percentile per-packet one-way delay: 114.949 ms
Loss rate: 1.98%
-- Flow 3:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 114.829 ms
Loss rate: 3.95%
```

Run 10: Report of LEDBAT — Data Link

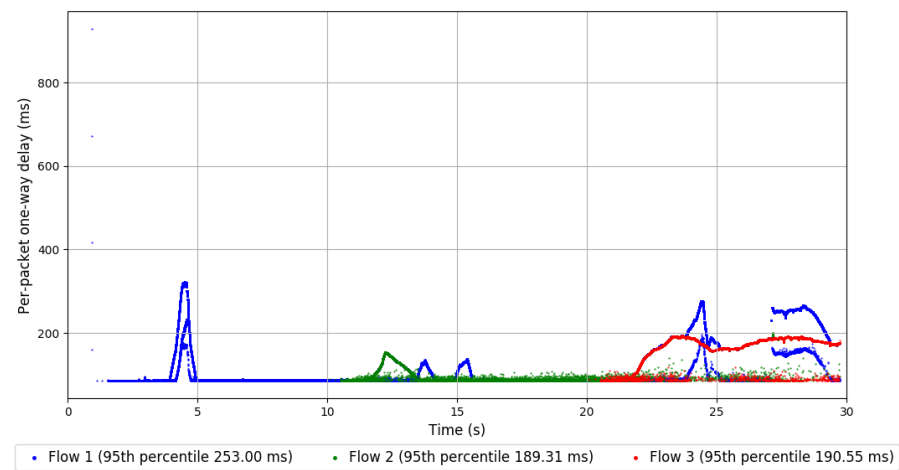
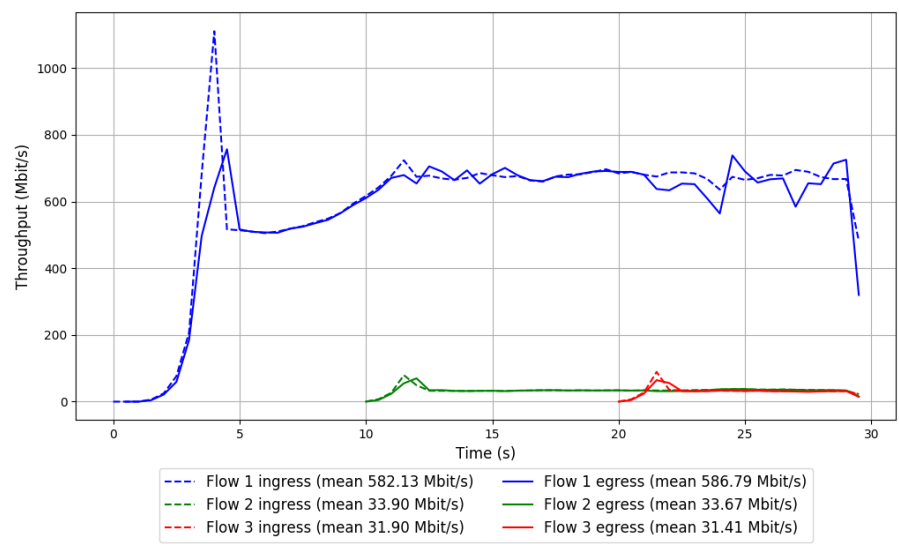


```
Run 1: Statistics of PCC

Start at: 2018-01-26 09:13:19
End at: 2018-01-26 09:13:49

# Below is generated by plot.py at 2018-01-26 14:29:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 620.15 Mbit/s
95th percentile per-packet one-way delay: 252.562 ms
Loss rate: 2.69%
-- Flow 1:
Average throughput: 586.79 Mbit/s
95th percentile per-packet one-way delay: 253.004 ms
Loss rate: 2.72%
-- Flow 2:
Average throughput: 33.67 Mbit/s
95th percentile per-packet one-way delay: 189.311 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 31.41 Mbit/s
95th percentile per-packet one-way delay: 190.554 ms
Loss rate: 3.52%
```

Run 1: Report of PCC — Data Link

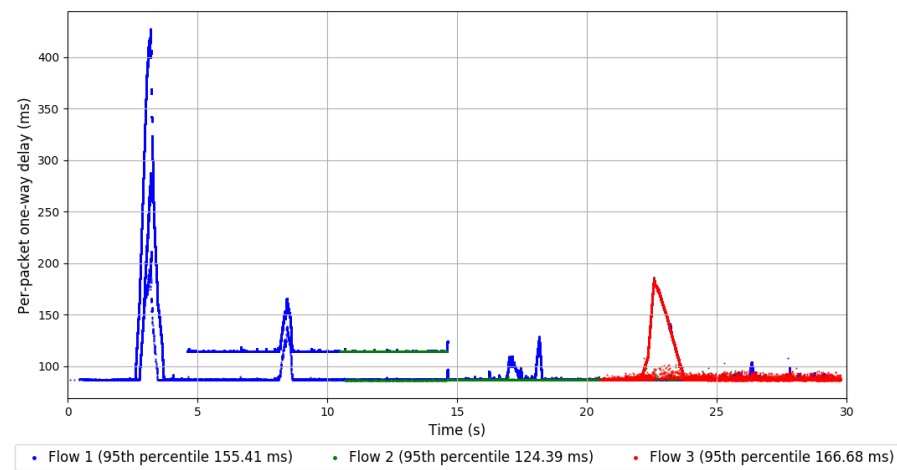
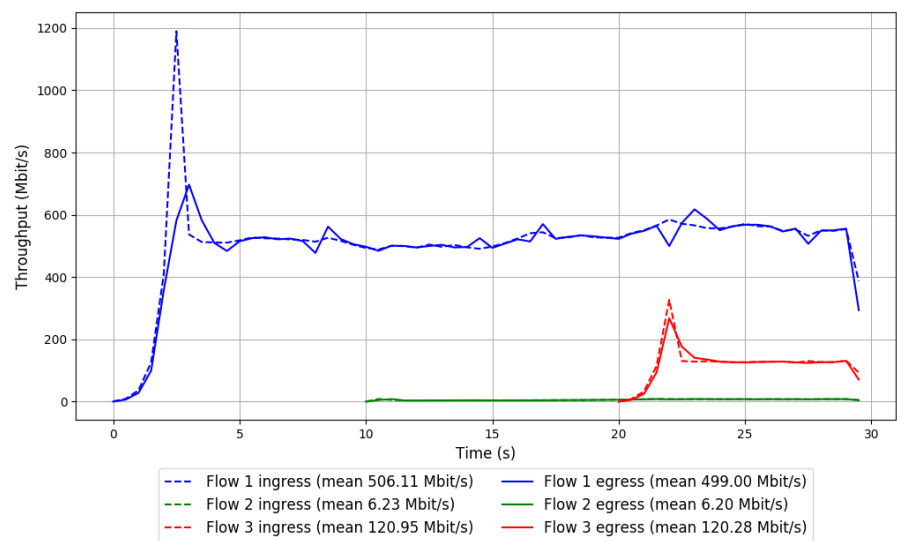


```
Run 2: Statistics of PCC

Start at: 2018-01-26 09:28:47
End at: 2018-01-26 09:29:17

# Below is generated by plot.py at 2018-01-26 14:29:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 542.15 Mbit/s
95th percentile per-packet one-way delay: 156.700 ms
Loss rate: 2.00%
-- Flow 1:
Average throughput: 499.00 Mbit/s
95th percentile per-packet one-way delay: 155.405 ms
Loss rate: 1.98%
-- Flow 2:
Average throughput: 6.20 Mbit/s
95th percentile per-packet one-way delay: 124.392 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 120.28 Mbit/s
95th percentile per-packet one-way delay: 166.683 ms
Loss rate: 2.32%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-26 09:44:03

End at: 2018-01-26 09:44:33

Below is generated by plot.py at 2018-01-26 14:29:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 395.25 Mbit/s

95th percentile per-packet one-way delay: 181.344 ms

Loss rate: 2.23%

-- Flow 1:

Average throughput: 6.75 Mbit/s

95th percentile per-packet one-way delay: 142.519 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 526.83 Mbit/s

95th percentile per-packet one-way delay: 179.064 ms

Loss rate: 2.20%

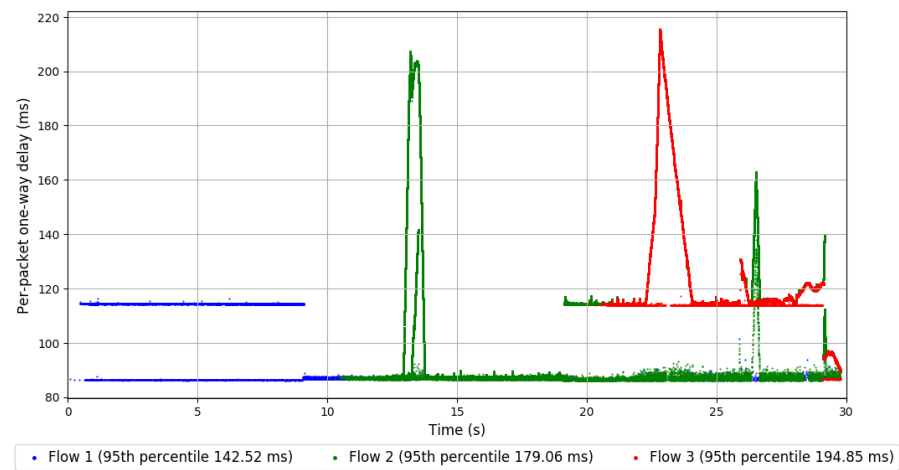
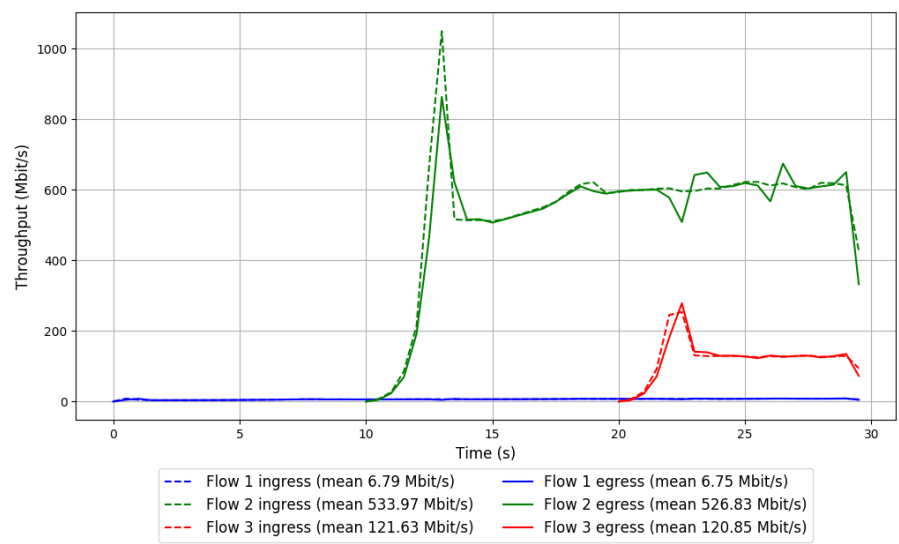
-- Flow 3:

Average throughput: 120.85 Mbit/s

95th percentile per-packet one-way delay: 194.847 ms

Loss rate: 2.67%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-26 09:59:13

End at: 2018-01-26 09:59:43

Below is generated by plot.py at 2018-01-26 14:29:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.87 Mbit/s

95th percentile per-packet one-way delay: 114.327 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 6.42 Mbit/s

95th percentile per-packet one-way delay: 114.324 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 4.58 Mbit/s

95th percentile per-packet one-way delay: 114.338 ms

Loss rate: 0.99%

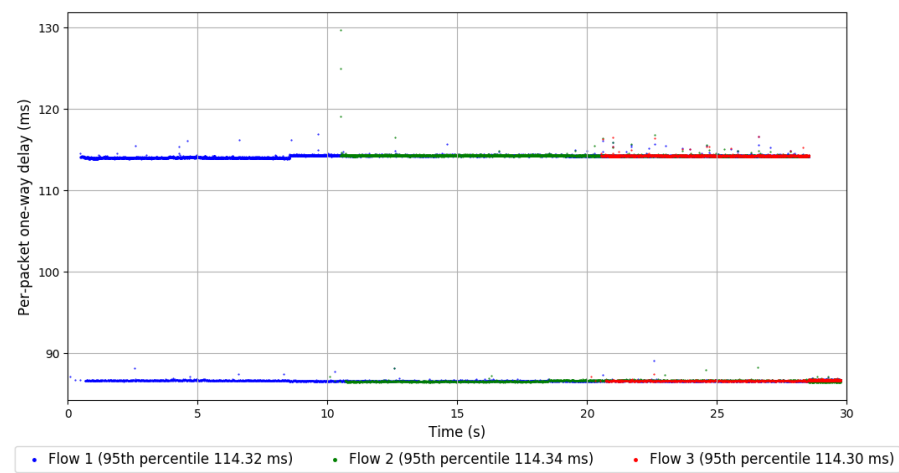
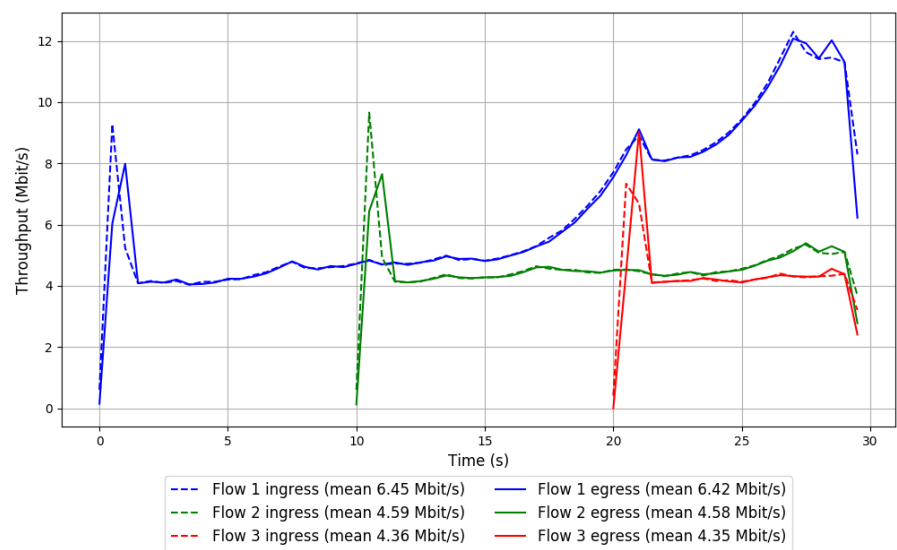
-- Flow 3:

Average throughput: 4.35 Mbit/s

95th percentile per-packet one-way delay: 114.300 ms

Loss rate: 1.84%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-26 10:13:58

End at: 2018-01-26 10:14:28

Below is generated by plot.py at 2018-01-26 14:29:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 585.36 Mbit/s

95th percentile per-packet one-way delay: 247.242 ms

Loss rate: 5.15%

-- Flow 1:

Average throughput: 483.32 Mbit/s

95th percentile per-packet one-way delay: 252.141 ms

Loss rate: 5.85%

-- Flow 2:

Average throughput: 137.76 Mbit/s

95th percentile per-packet one-way delay: 176.293 ms

Loss rate: 1.54%

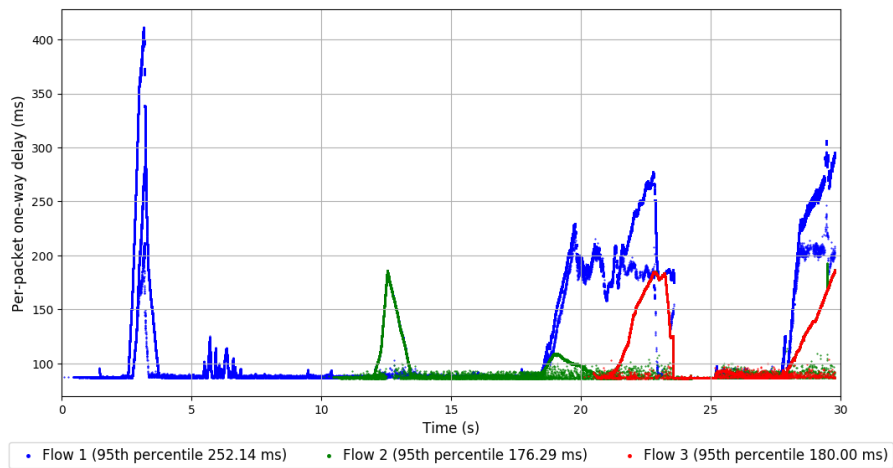
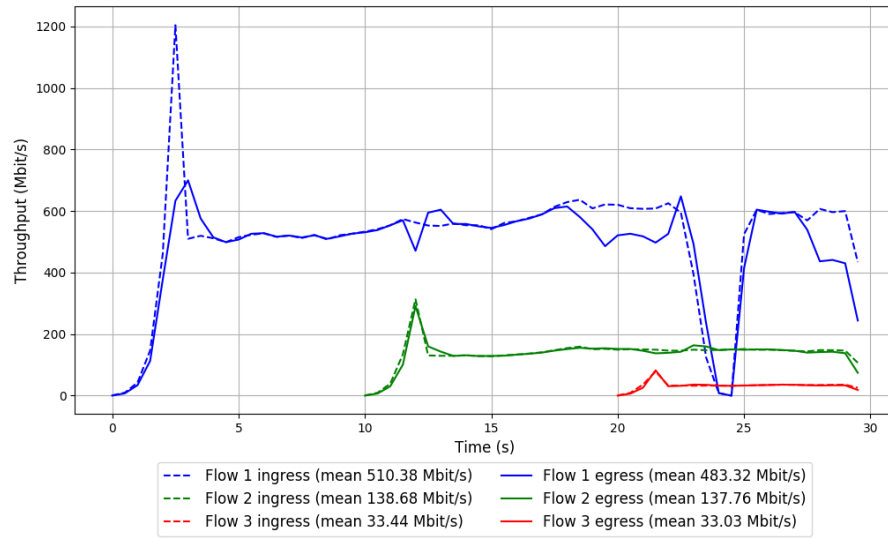
-- Flow 3:

Average throughput: 33.03 Mbit/s

95th percentile per-packet one-way delay: 180.005 ms

Loss rate: 2.97%

Run 5: Report of PCC — Data Link

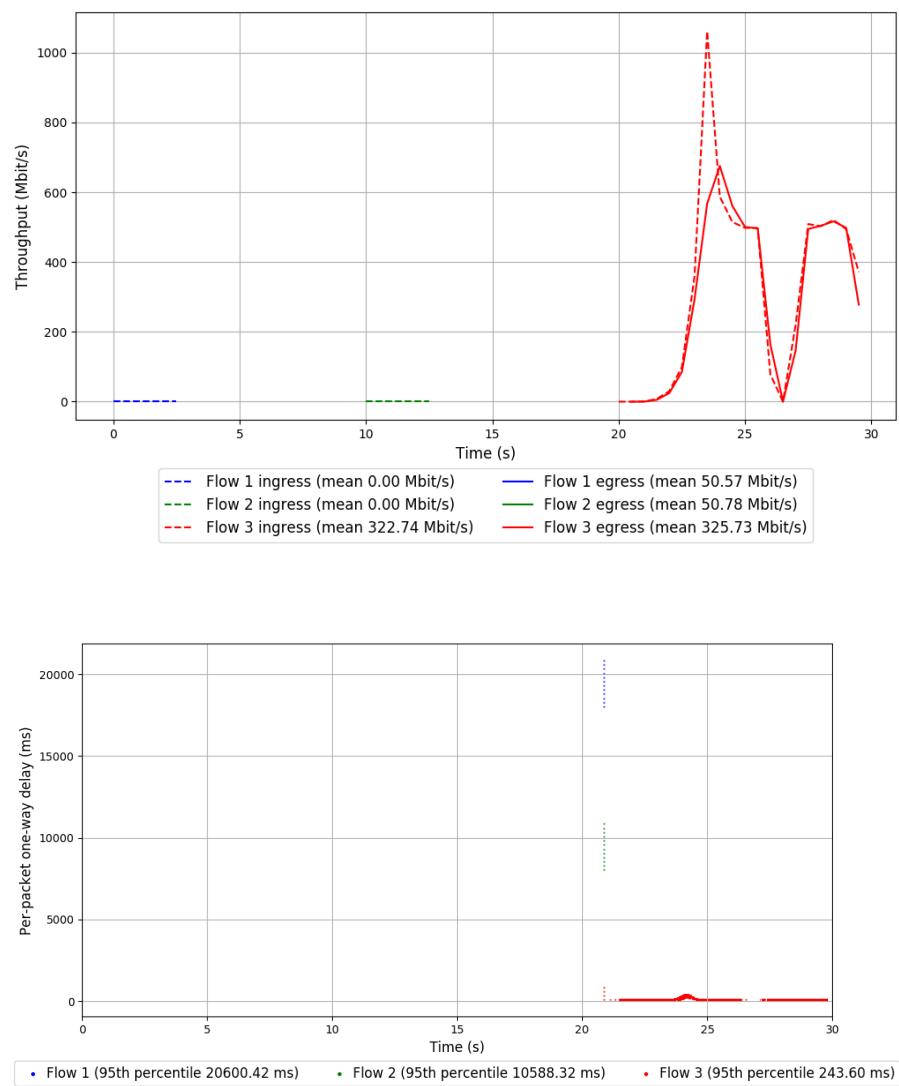


Run 6: Statistics of PCC

Start at: 2018-01-26 10:29:20

End at: 2018-01-26 10:29:50

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-26 10:44:24

End at: 2018-01-26 10:44:54

Below is generated by plot.py at 2018-01-26 14:30:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 605.17 Mbit/s

95th percentile per-packet one-way delay: 219.923 ms

Loss rate: 5.06%

-- Flow 1:

Average throughput: 583.24 Mbit/s

95th percentile per-packet one-way delay: 220.169 ms

Loss rate: 5.10%

-- Flow 2:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 188.563 ms

Loss rate: 3.17%

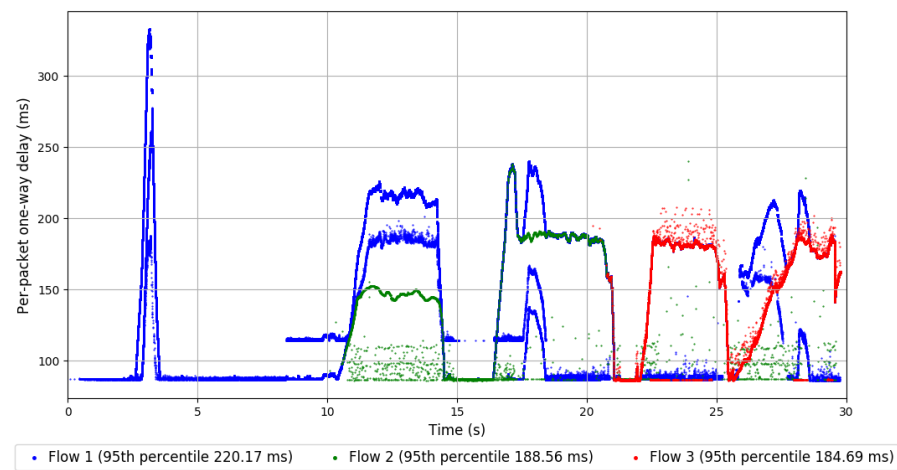
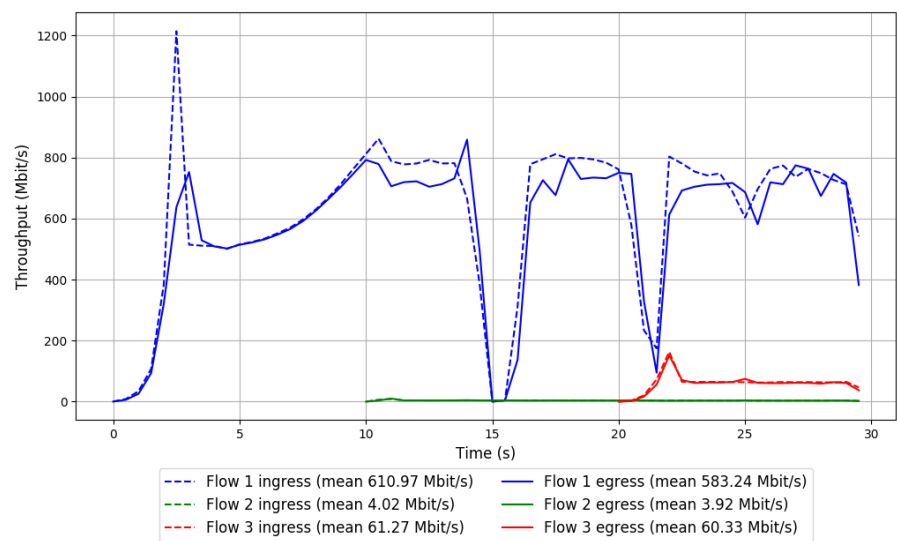
-- Flow 3:

Average throughput: 60.33 Mbit/s

95th percentile per-packet one-way delay: 184.693 ms

Loss rate: 4.35%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-26 10:59:47

End at: 2018-01-26 11:00:17

Below is generated by plot.py at 2018-01-26 14:30:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 567.34 Mbit/s

95th percentile per-packet one-way delay: 269.247 ms

Loss rate: 4.18%

-- Flow 1:

Average throughput: 554.75 Mbit/s

95th percentile per-packet one-way delay: 269.669 ms

Loss rate: 4.24%

-- Flow 2:

Average throughput: 16.87 Mbit/s

95th percentile per-packet one-way delay: 200.832 ms

Loss rate: 1.27%

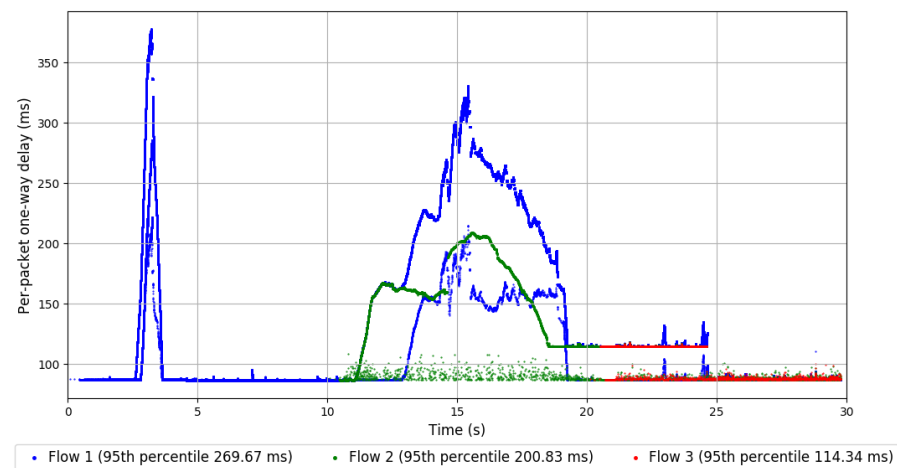
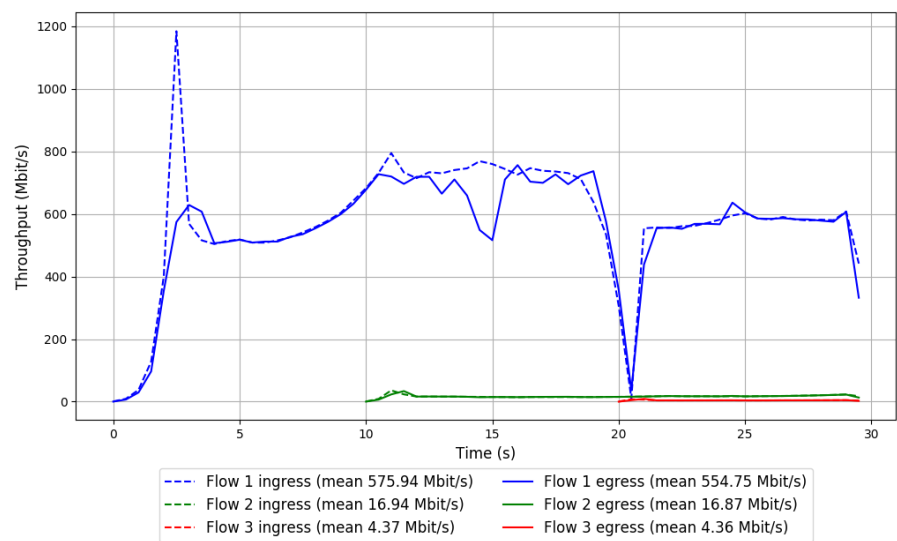
-- Flow 3:

Average throughput: 4.36 Mbit/s

95th percentile per-packet one-way delay: 114.337 ms

Loss rate: 2.08%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-26 11:15:11

End at: 2018-01-26 11:15:41

Below is generated by plot.py at 2018-01-26 14:31:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 622.06 Mbit/s

95th percentile per-packet one-way delay: 244.728 ms

Loss rate: 4.94%

-- Flow 1:

Average throughput: 589.37 Mbit/s

95th percentile per-packet one-way delay: 245.608 ms

Loss rate: 5.12%

-- Flow 2:

Average throughput: 33.46 Mbit/s

95th percentile per-packet one-way delay: 206.175 ms

Loss rate: 1.21%

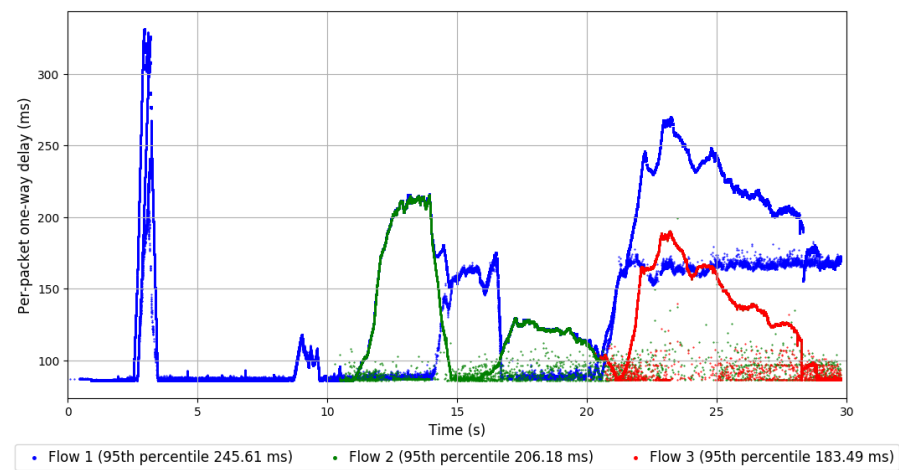
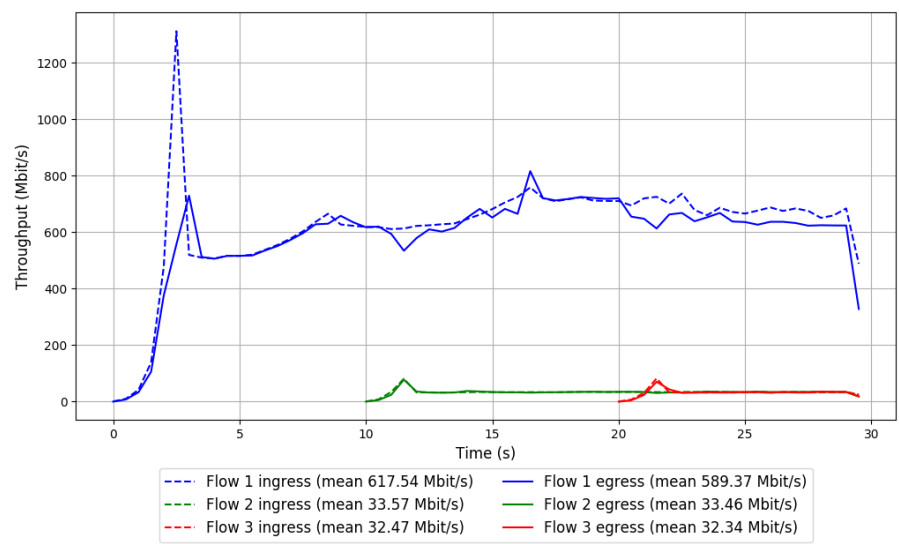
-- Flow 3:

Average throughput: 32.34 Mbit/s

95th percentile per-packet one-way delay: 183.493 ms

Loss rate: 2.16%

Run 9: Report of PCC — Data Link

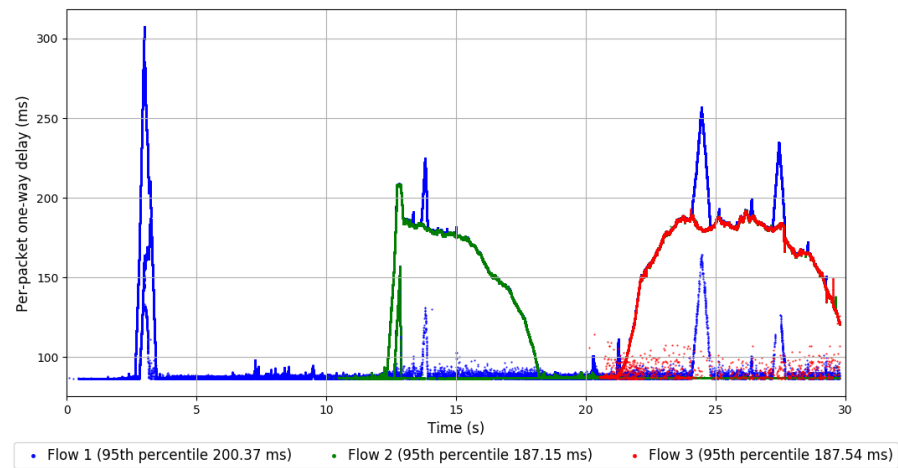
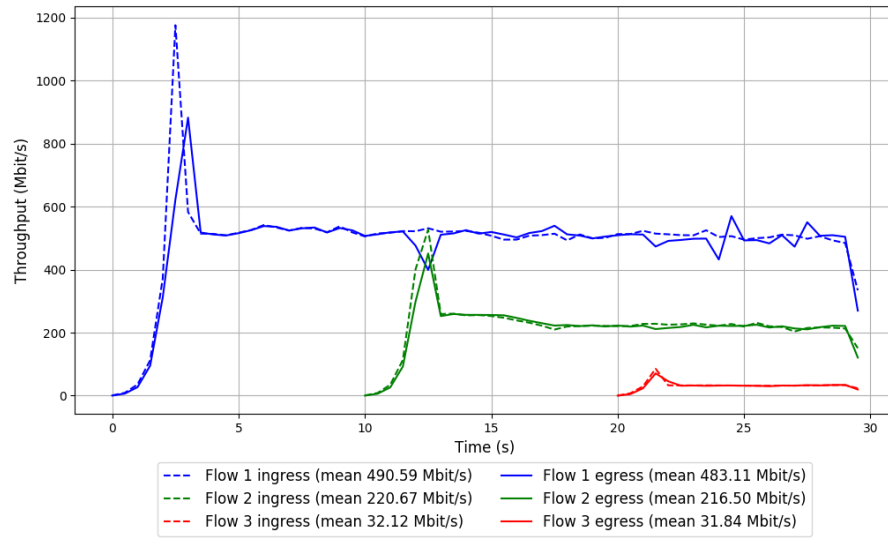


```
Run 10: Statistics of PCC

Start at: 2018-01-26 11:30:56
End at: 2018-01-26 11:31:26

# Below is generated by plot.py at 2018-01-26 14:32:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 636.79 Mbit/s
95th percentile per-packet one-way delay: 191.784 ms
Loss rate: 2.26%
-- Flow 1:
Average throughput: 483.11 Mbit/s
95th percentile per-packet one-way delay: 200.373 ms
Loss rate: 2.10%
-- Flow 2:
Average throughput: 216.50 Mbit/s
95th percentile per-packet one-way delay: 187.154 ms
Loss rate: 2.75%
-- Flow 3:
Average throughput: 31.84 Mbit/s
95th percentile per-packet one-way delay: 187.543 ms
Loss rate: 2.75%
```

Run 10: Report of PCC — Data Link

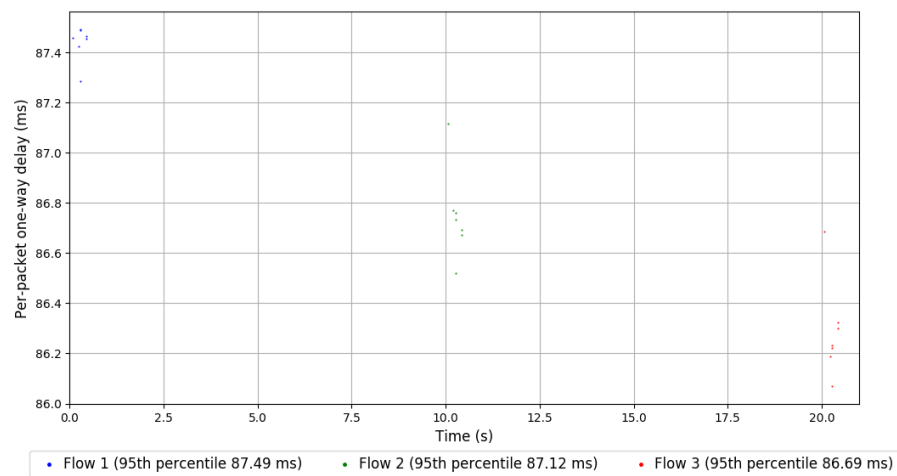
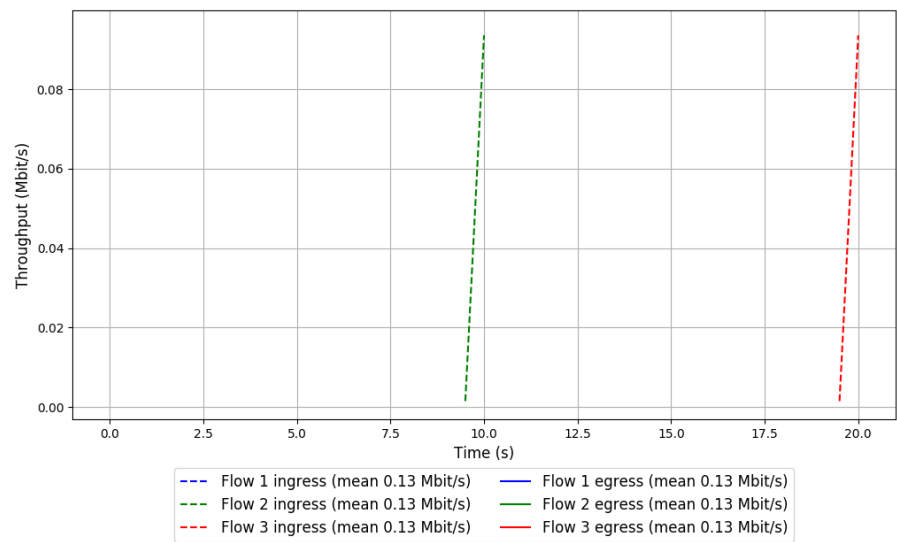


Run 1: Statistics of QUIC Cubic

Start at: 2018-01-26 09:09:17

End at: 2018-01-26 09:09:47

Run 1: Report of QUIC Cubic — Data Link

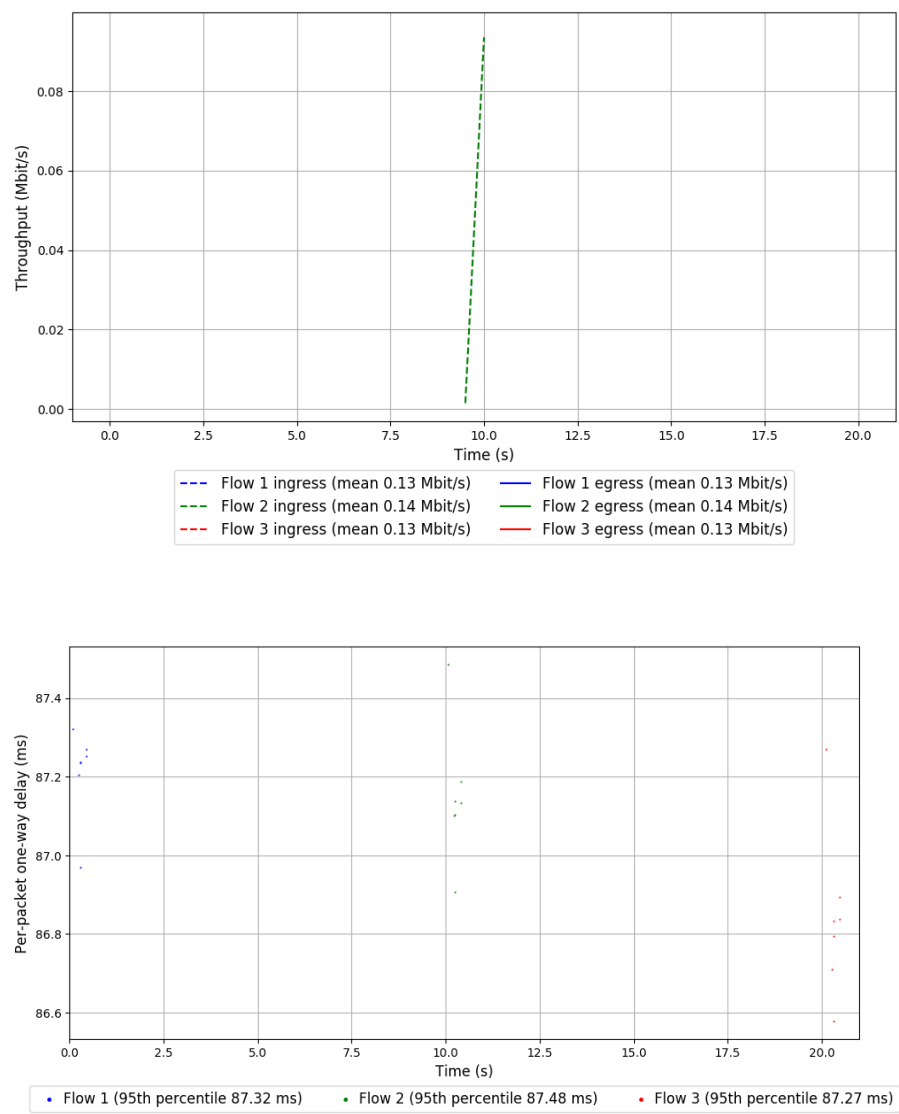


Run 2: Statistics of QUIC Cubic

Start at: 2018-01-26 09:24:44

End at: 2018-01-26 09:25:14

Run 2: Report of QUIC Cubic — Data Link

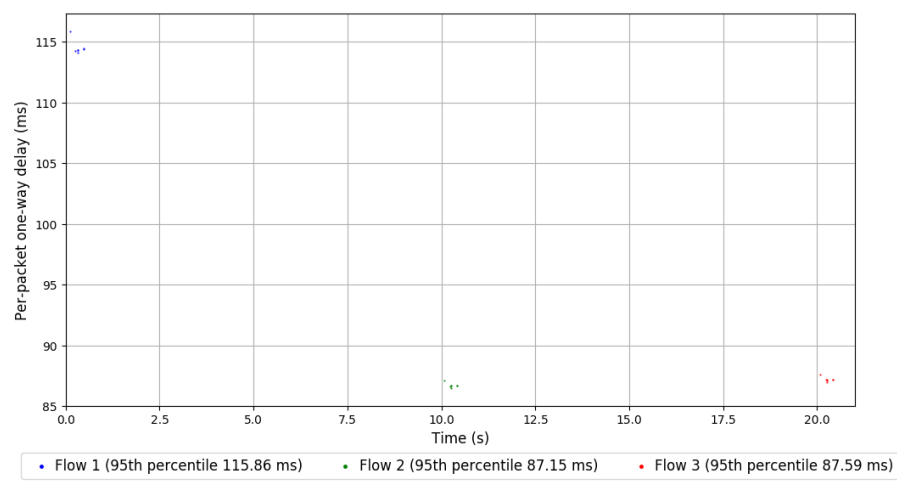
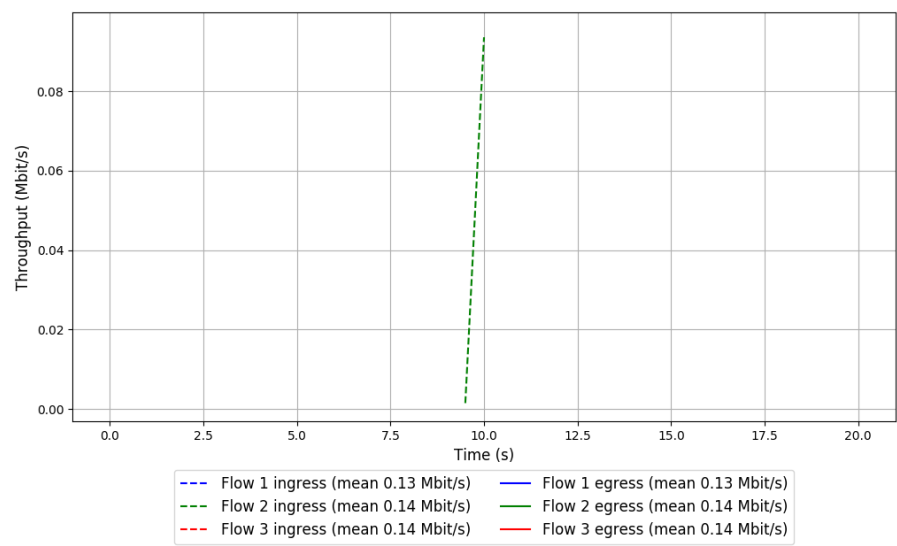


Run 3: Statistics of QUIC Cubic

Start at: 2018-01-26 09:40:07

End at: 2018-01-26 09:40:37

Run 3: Report of QUIC Cubic — Data Link

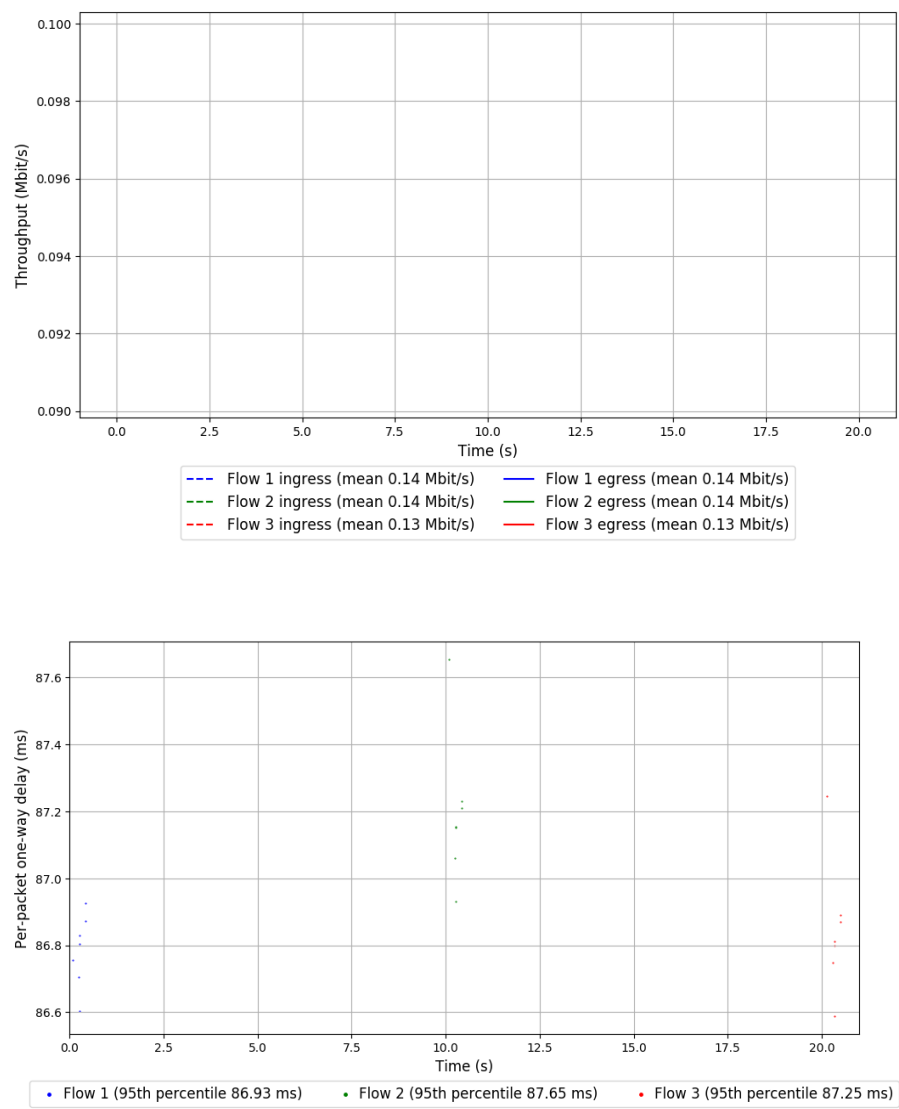


Run 4: Statistics of QUIC Cubic

Start at: 2018-01-26 09:55:21

End at: 2018-01-26 09:55:51

Run 4: Report of QUIC Cubic — Data Link

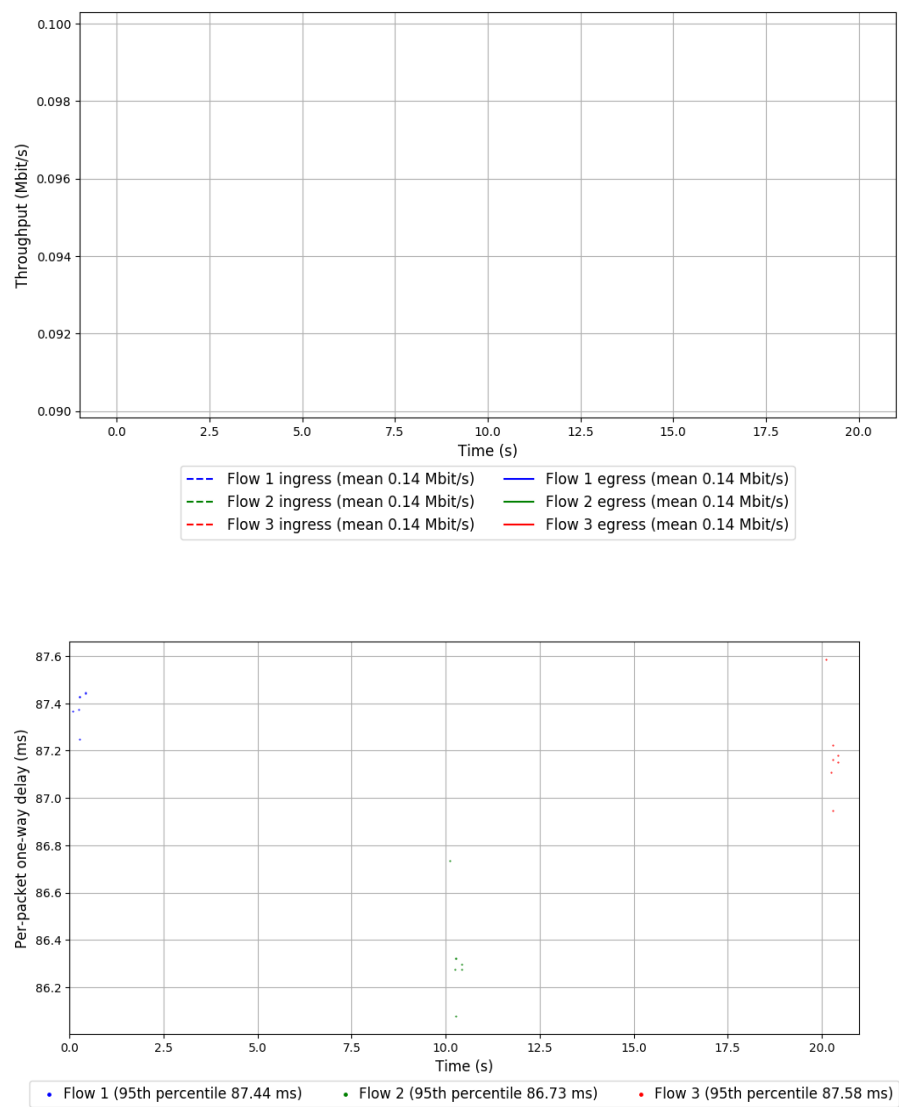


Run 5: Statistics of QUIC Cubic

Start at: 2018-01-26 10:10:07

End at: 2018-01-26 10:10:37

Run 5: Report of QUIC Cubic — Data Link

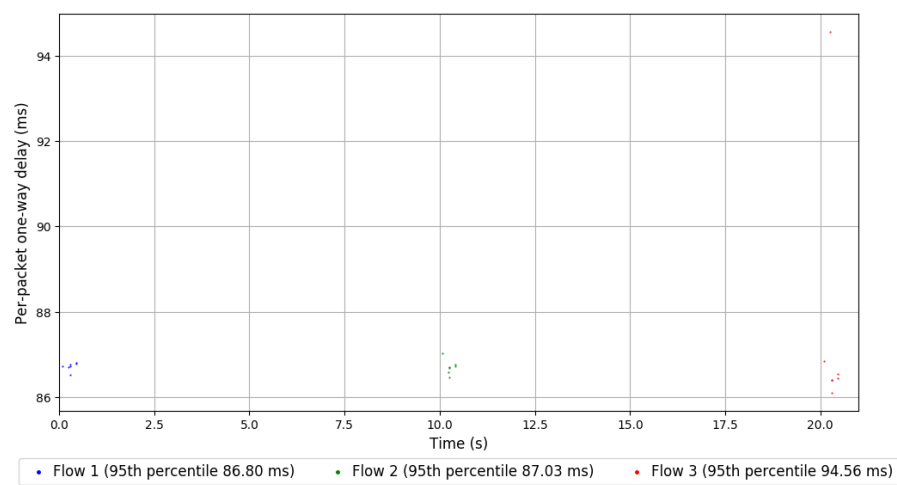
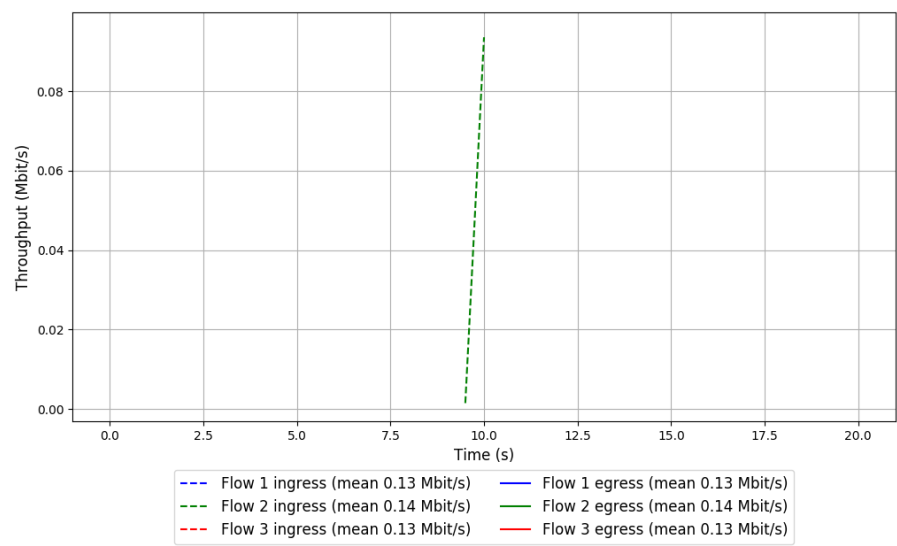


Run 6: Statistics of QUIC Cubic

Start at: 2018-01-26 10:25:16

End at: 2018-01-26 10:25:46

Run 6: Report of QUIC Cubic — Data Link

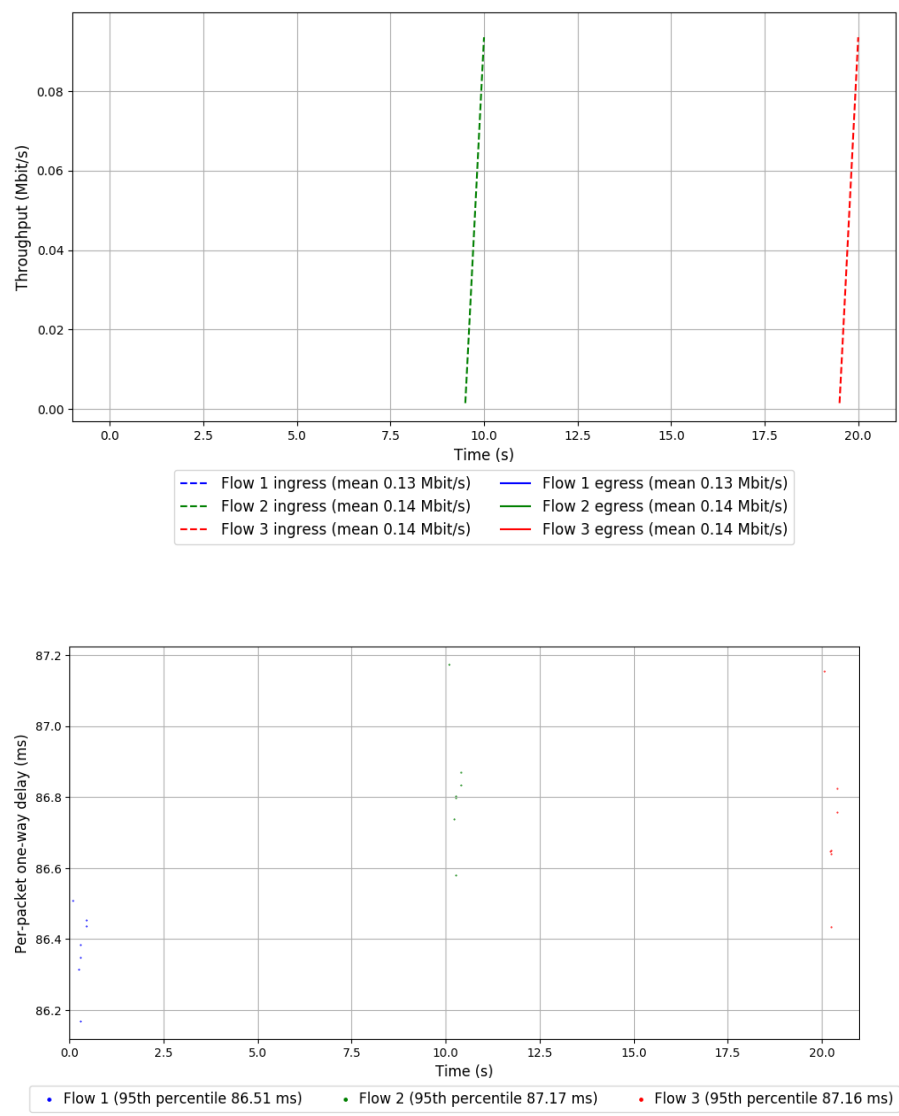


Run 7: Statistics of QUIC Cubic

Start at: 2018-01-26 10:40:35

End at: 2018-01-26 10:41:05

Run 7: Report of QUIC Cubic — Data Link

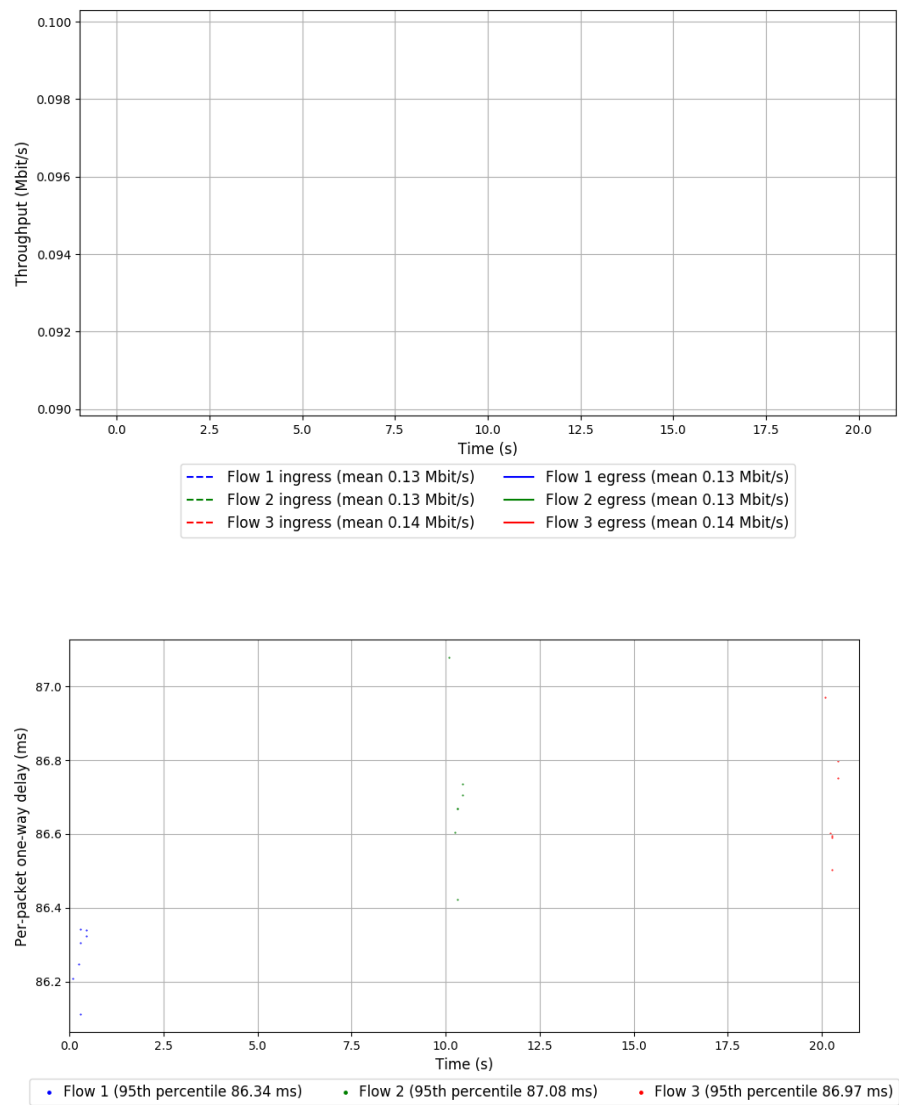


Run 8: Statistics of QUIC Cubic

Start at: 2018-01-26 10:55:48

End at: 2018-01-26 10:56:18

Run 8: Report of QUIC Cubic — Data Link

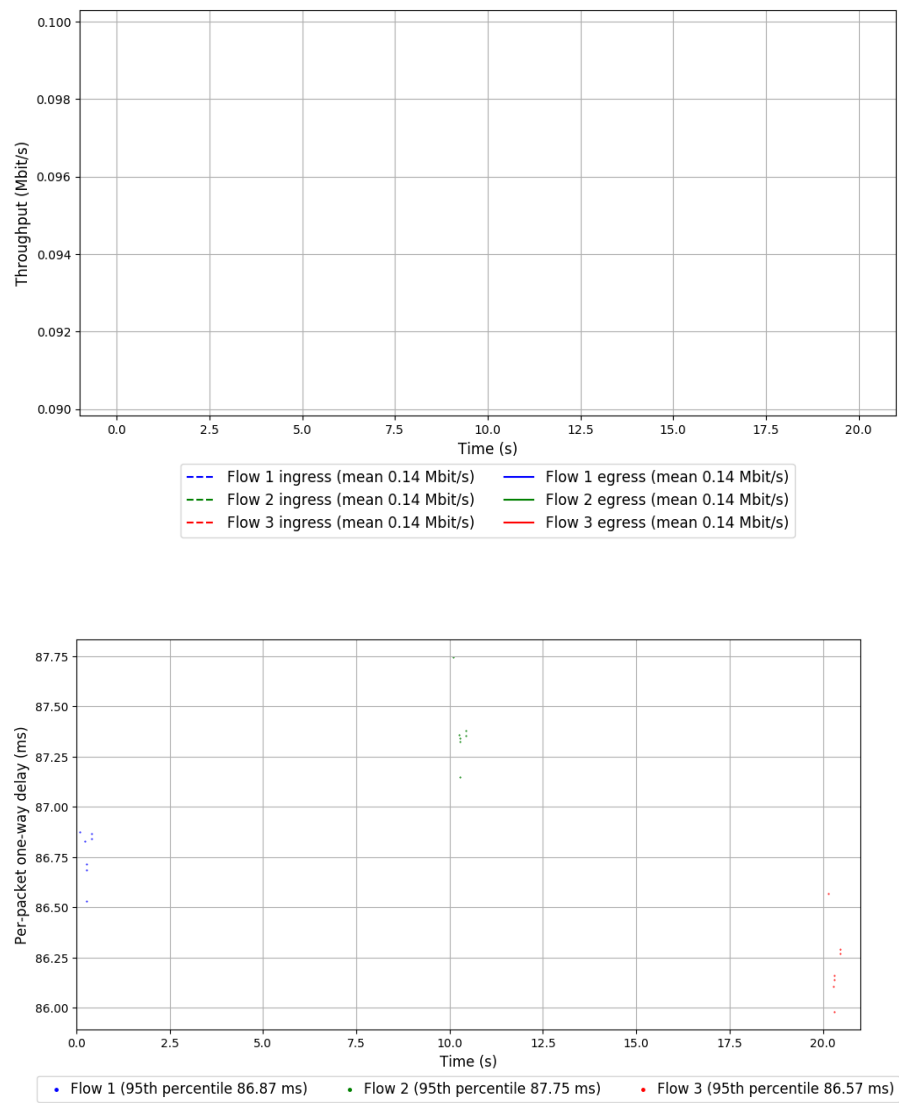


Run 9: Statistics of QUIC Cubic

Start at: 2018-01-26 11:11:14

End at: 2018-01-26 11:11:44

Run 9: Report of QUIC Cubic — Data Link

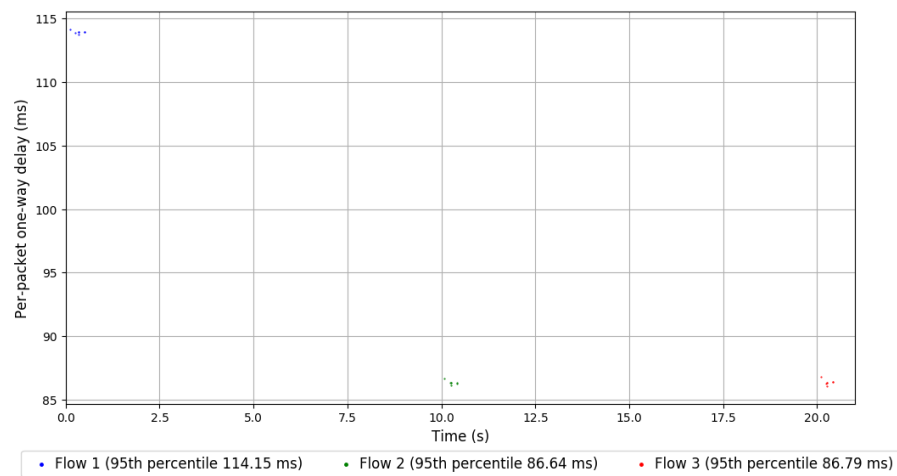
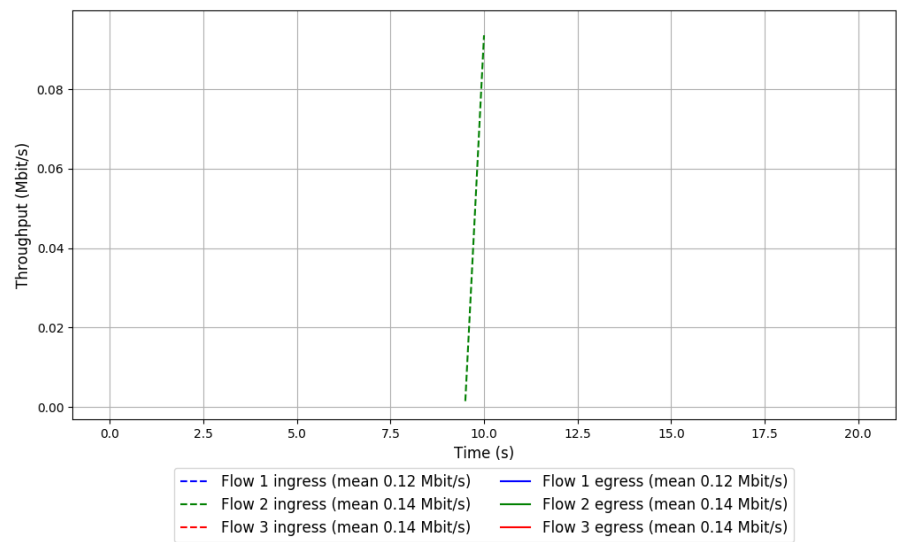


Run 10: Statistics of QUIC Cubic

Start at: 2018-01-26 11:26:53

End at: 2018-01-26 11:27:23

Run 10: Report of QUIC Cubic — Data Link

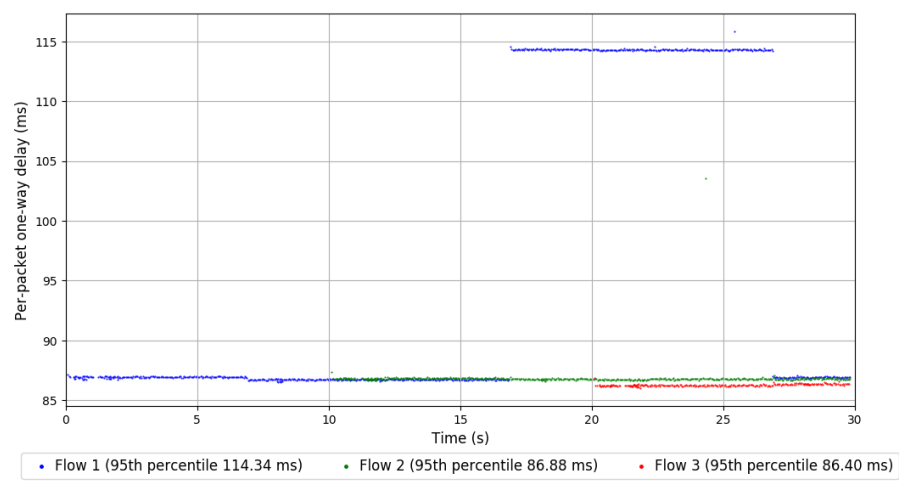
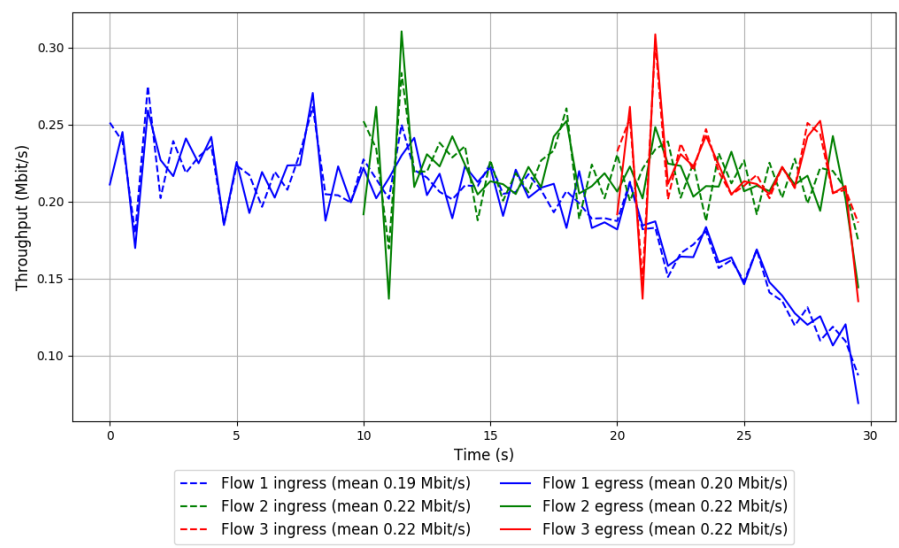


```
Run 1: Statistics of SCReAM

Start at: 2018-01-26 09:16:35
End at: 2018-01-26 09:17:05

# Below is generated by plot.py at 2018-01-26 14:32:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 114.319 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 114.343 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.882 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.399 ms
Loss rate: 1.88%
```

Run 1: Report of SReAM — Data Link

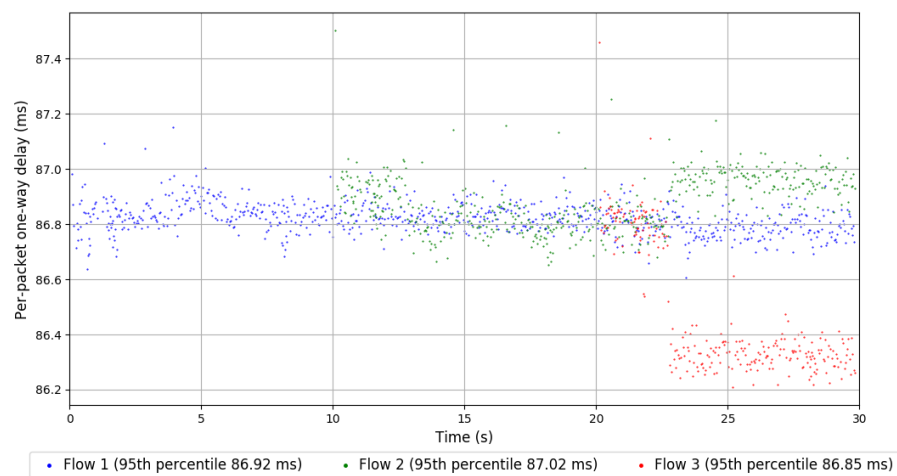
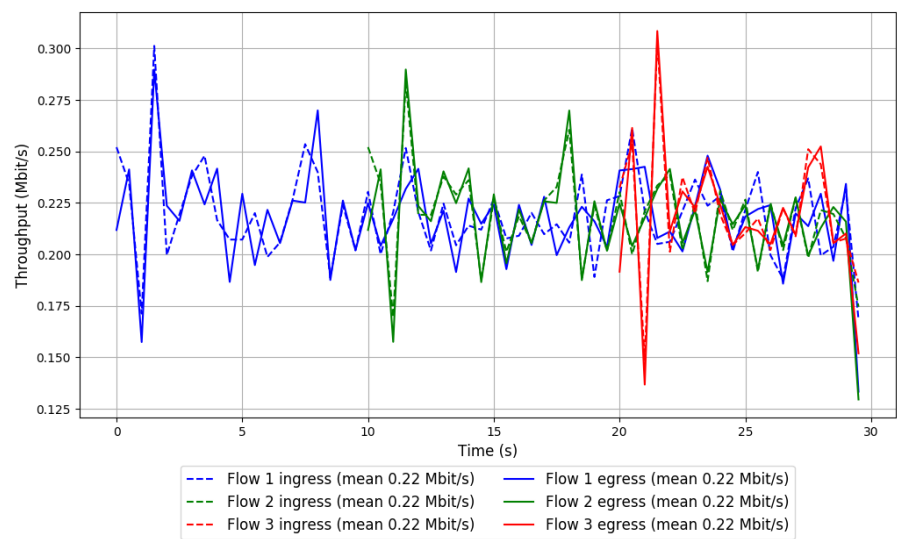


```
Run 2: Statistics of SReAM

Start at: 2018-01-26 09:31:59
End at: 2018-01-26 09:32:29

# Below is generated by plot.py at 2018-01-26 14:32:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.987 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.915 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.015 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.851 ms
Loss rate: 1.50%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-26 09:47:04

End at: 2018-01-26 09:47:34

Below is generated by plot.py at 2018-01-26 14:32:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 114.421 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 114.445 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.862 ms

Loss rate: 0.85%

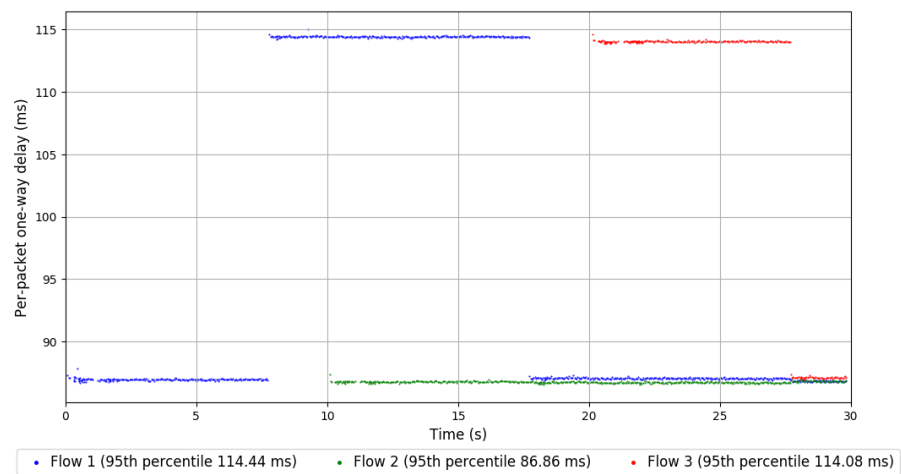
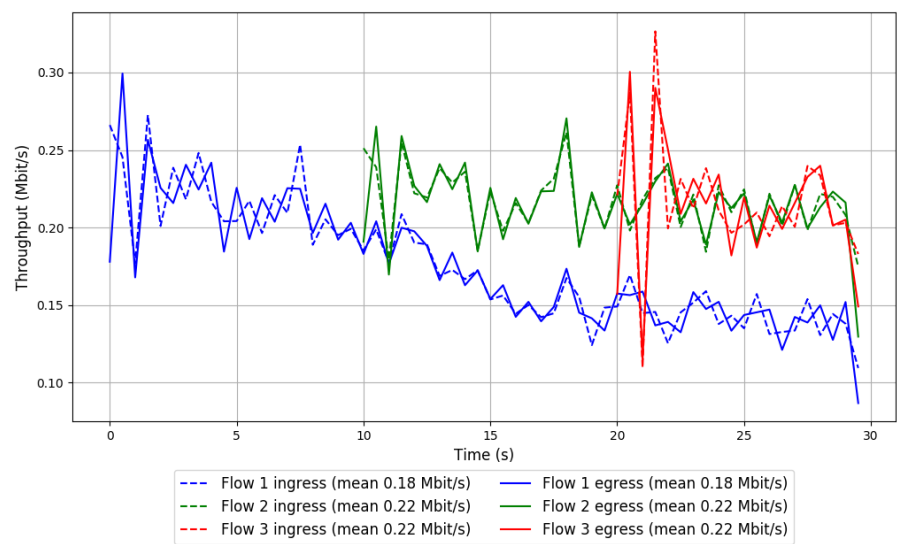
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.084 ms

Loss rate: 1.52%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-01-26 10:02:01

End at: 2018-01-26 10:02:31

Below is generated by plot.py at 2018-01-26 14:32:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 114.395 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 114.417 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.940 ms

Loss rate: 0.84%

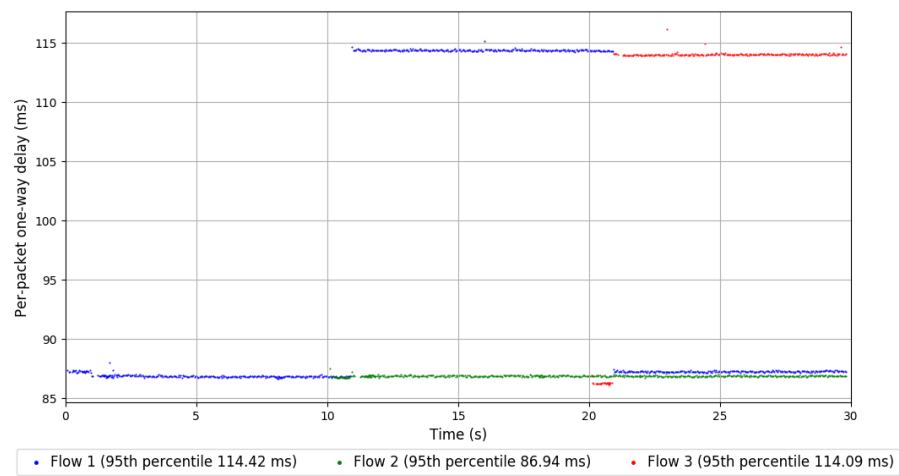
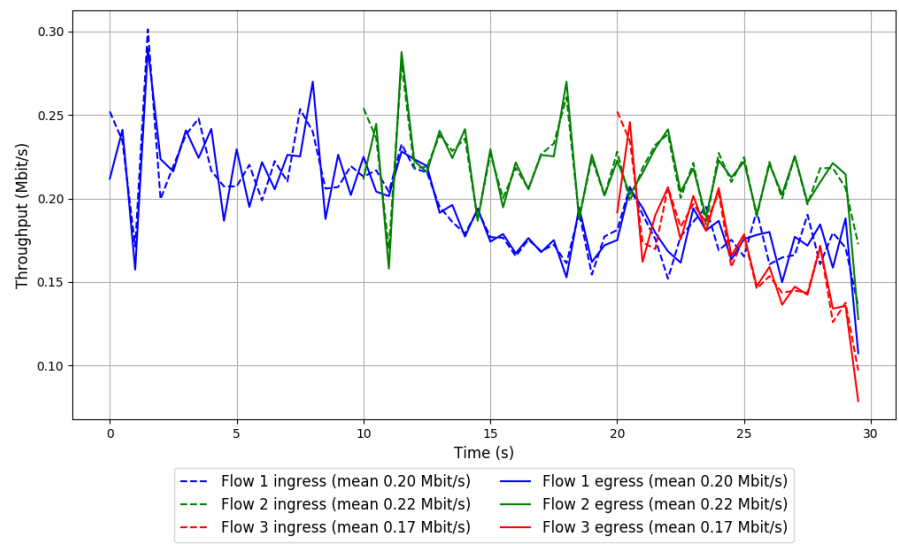
-- Flow 3:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 114.095 ms

Loss rate: 1.44%

Run 4: Report of SCRaM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-01-26 10:17:14

End at: 2018-01-26 10:17:44

Below is generated by plot.py at 2018-01-26 14:32:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 87.014 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.015 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.554 ms

Loss rate: 0.85%

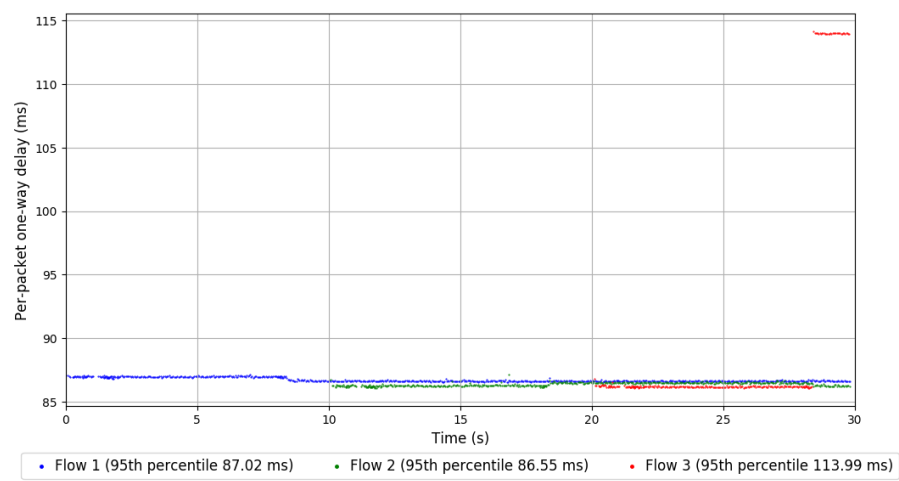
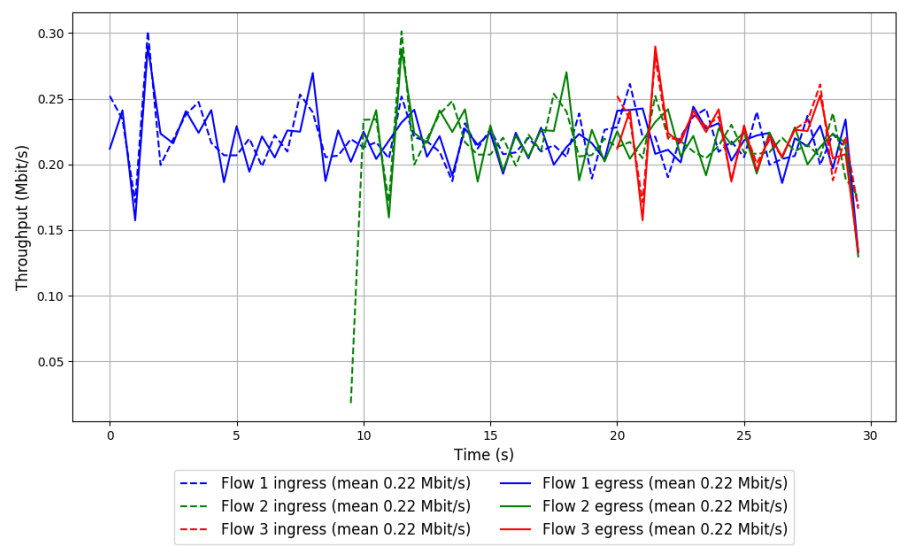
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.990 ms

Loss rate: 1.83%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-26 10:31:57

End at: 2018-01-26 10:32:27

Below is generated by plot.py at 2018-01-26 14:32:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 113.982 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.017 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.761 ms

Loss rate: 0.85%

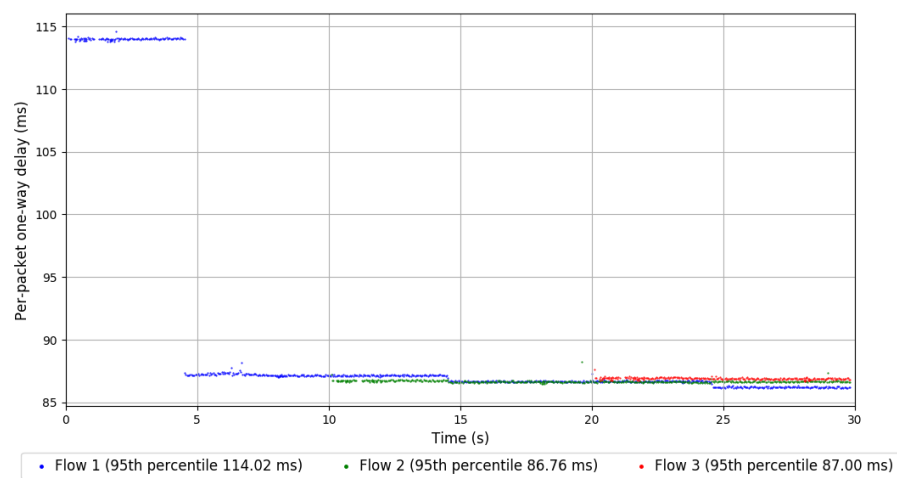
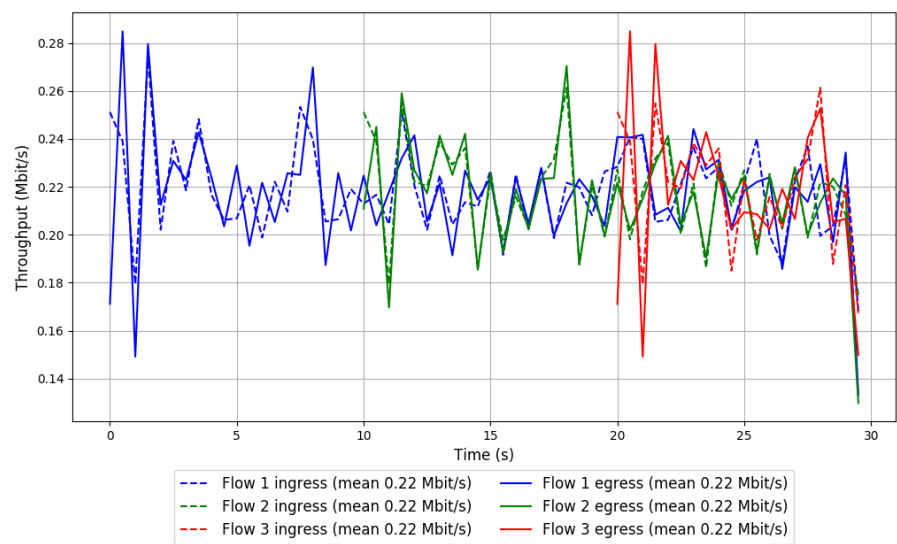
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.995 ms

Loss rate: 1.50%

Run 6: Report of SReAM — Data Link

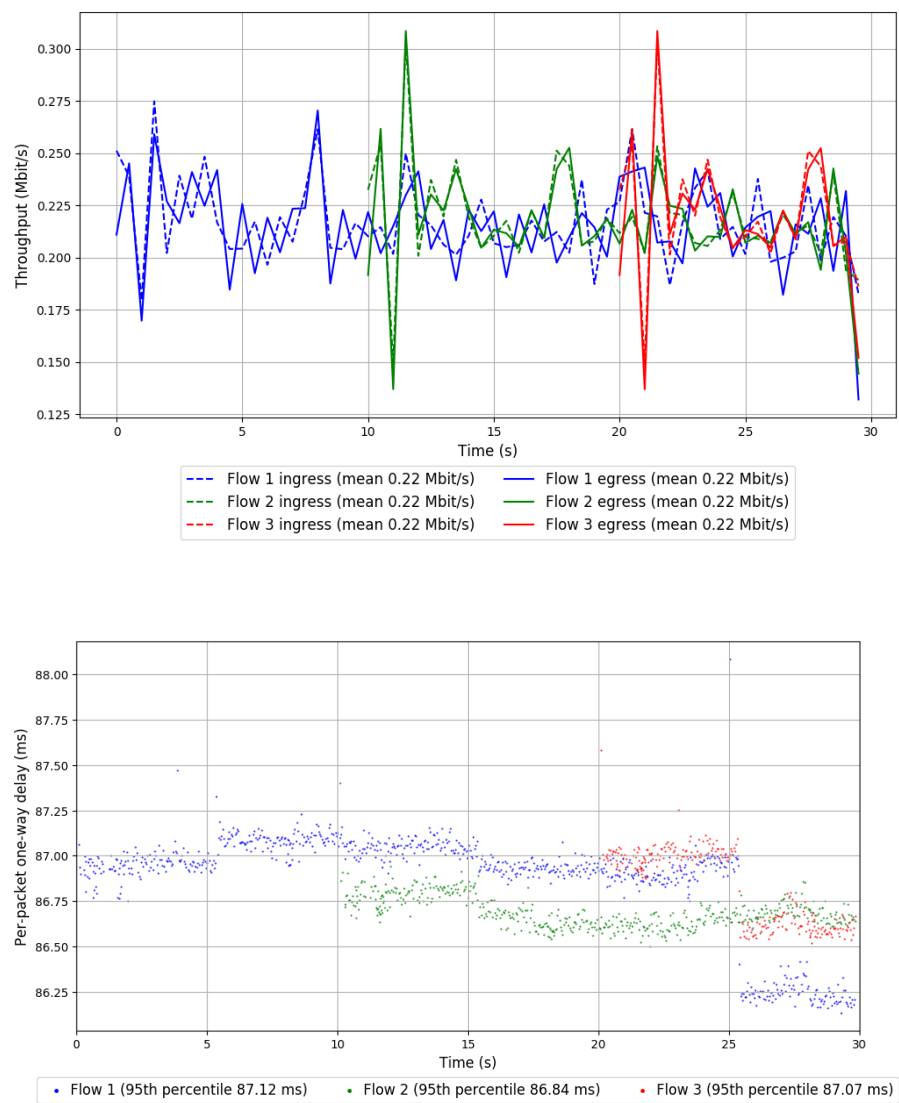


```
Run 7: Statistics of SCReAM

Start at: 2018-01-26 10:47:37
End at: 2018-01-26 10:48:07

# Below is generated by plot.py at 2018-01-26 14:32:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.099 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.119 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.845 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.069 ms
Loss rate: 1.50%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-01-26 11:03:02

End at: 2018-01-26 11:03:32

Below is generated by plot.py at 2018-01-26 14:32:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 87.136 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.747 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.175 ms

Loss rate: 0.85%

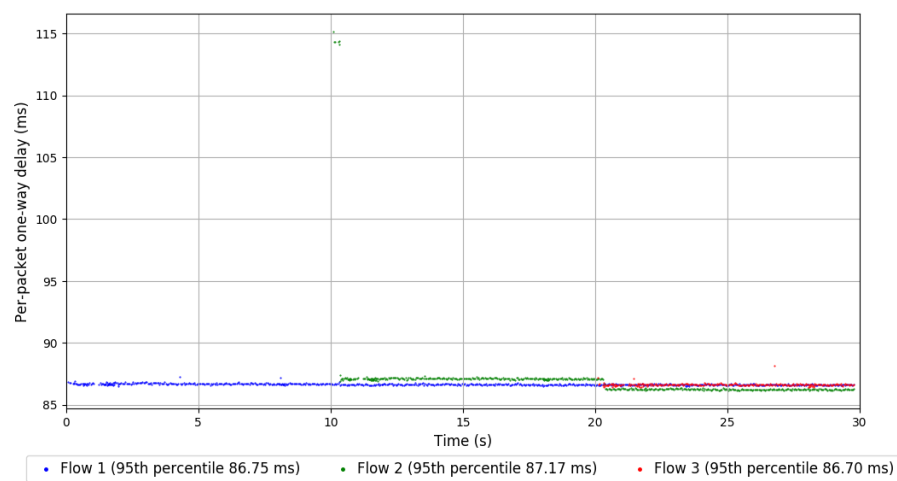
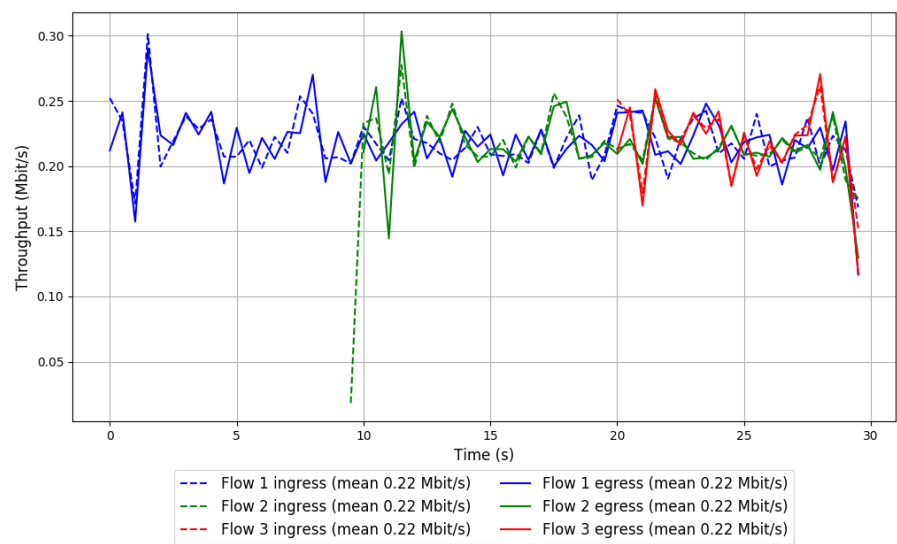
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.698 ms

Loss rate: 1.52%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-01-26 11:18:29

End at: 2018-01-26 11:18:59

Below is generated by plot.py at 2018-01-26 14:32:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 87.105 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.797 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.133 ms

Loss rate: 1.03%

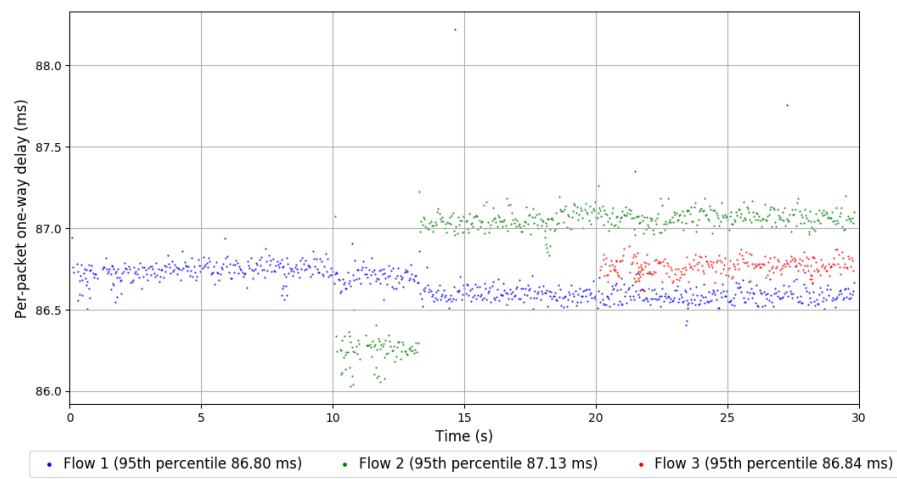
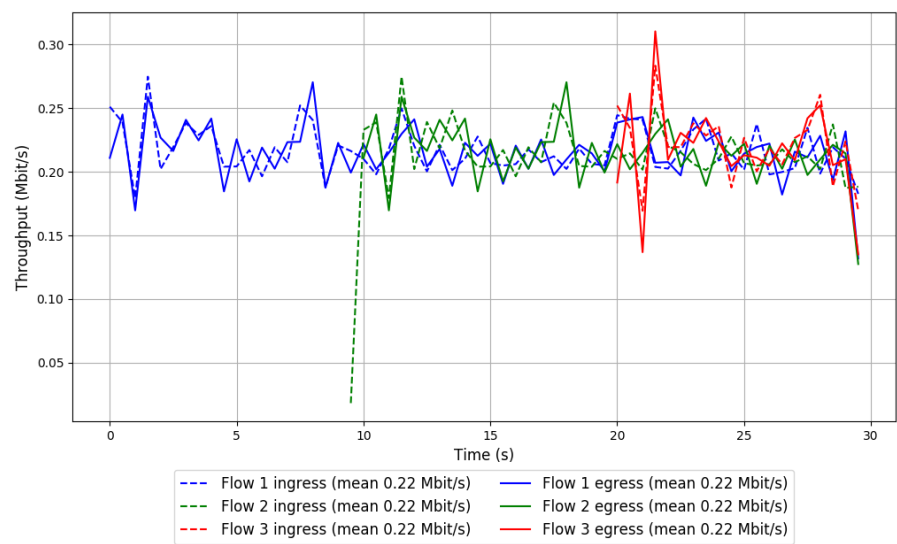
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.838 ms

Loss rate: 1.88%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-01-26 11:34:14

End at: 2018-01-26 11:34:44

Below is generated by plot.py at 2018-01-26 14:32:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 87.253 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.227 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.053 ms

Loss rate: 0.84%

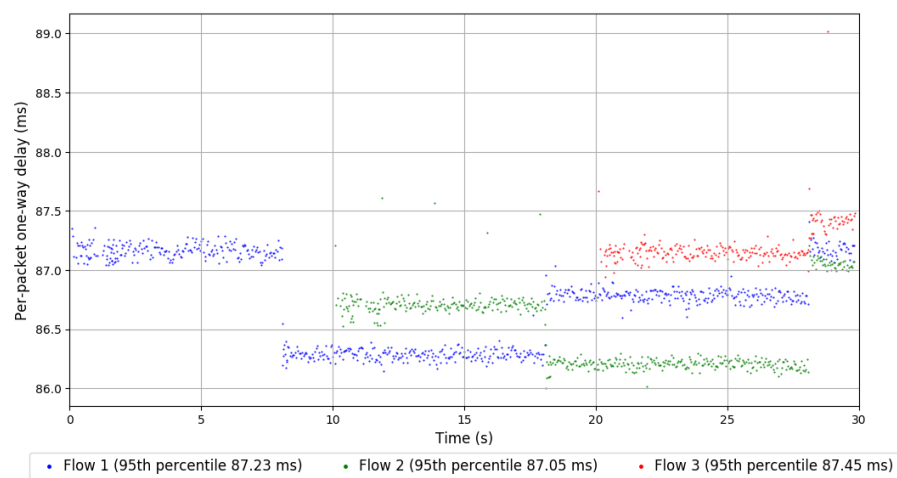
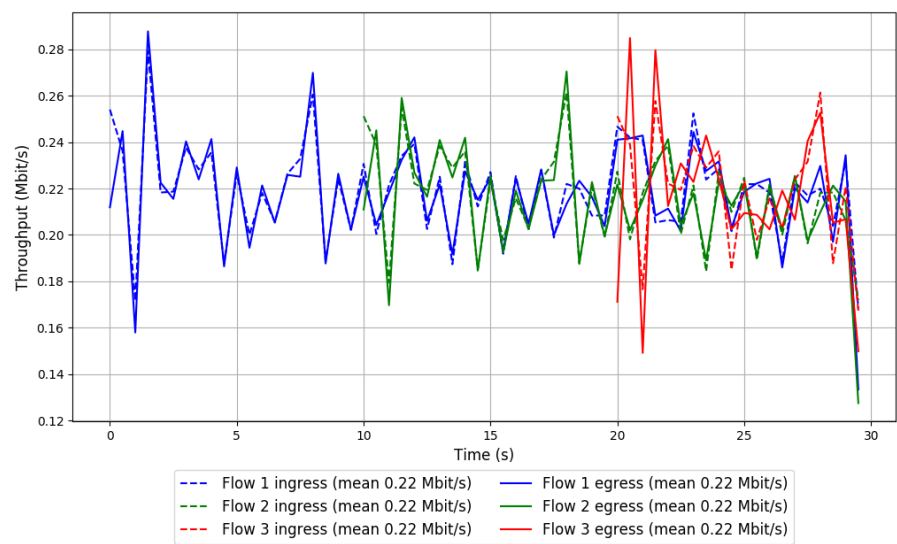
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.450 ms

Loss rate: 1.50%

Run 10: Report of SCReAM — Data Link

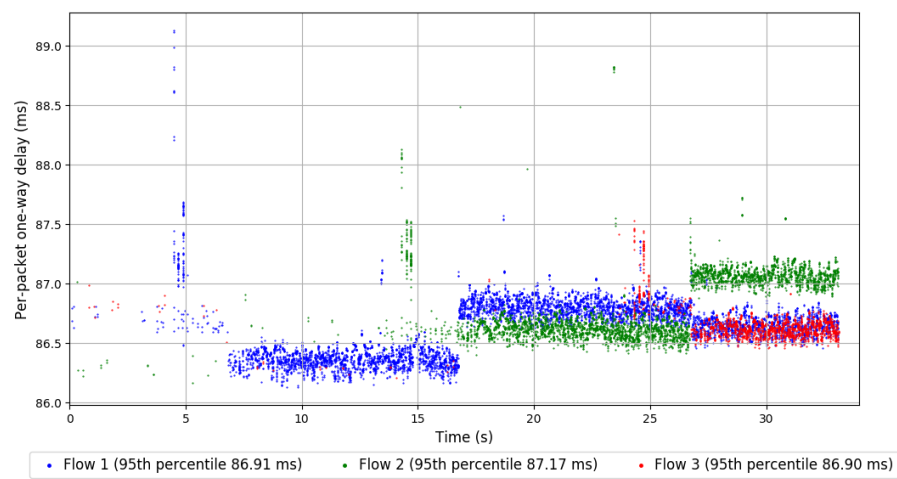
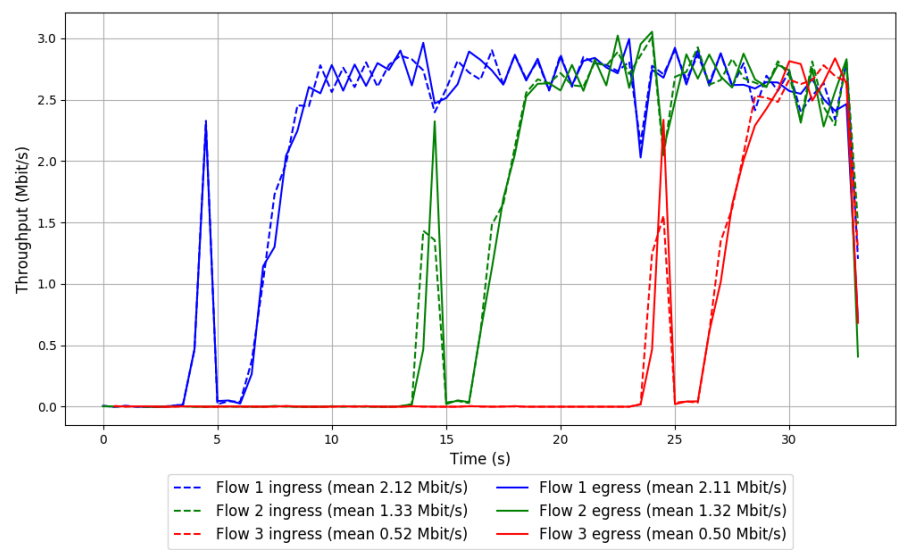


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-26 09:07:19
End at: 2018-01-26 09:07:49

# Below is generated by plot.py at 2018-01-26 14:32:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 87.108 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 86.908 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 87.165 ms
Loss rate: 1.63%
-- Flow 3:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 86.901 ms
Loss rate: 3.14%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-26 09:22:47

End at: 2018-01-26 09:23:17

Below is generated by plot.py at 2018-01-26 14:32:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.99 Mbit/s

95th percentile per-packet one-way delay: 87.184 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 87.219 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 1.36 Mbit/s

95th percentile per-packet one-way delay: 87.015 ms

Loss rate: 0.74%

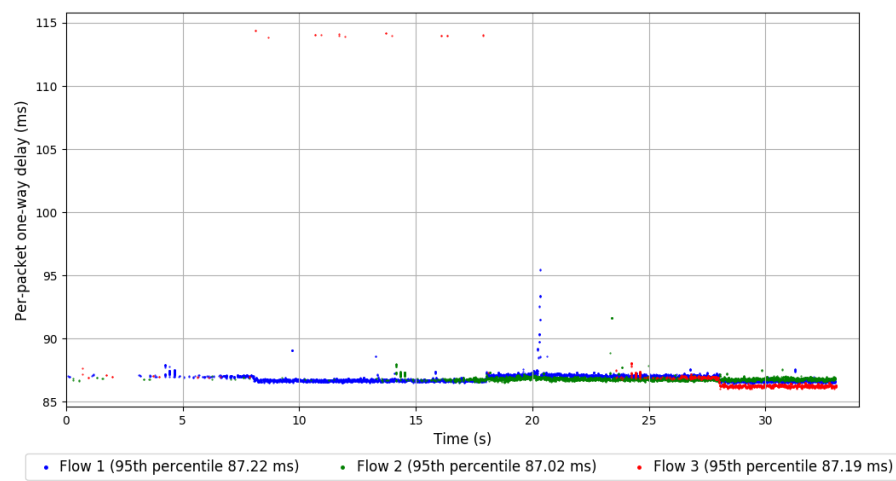
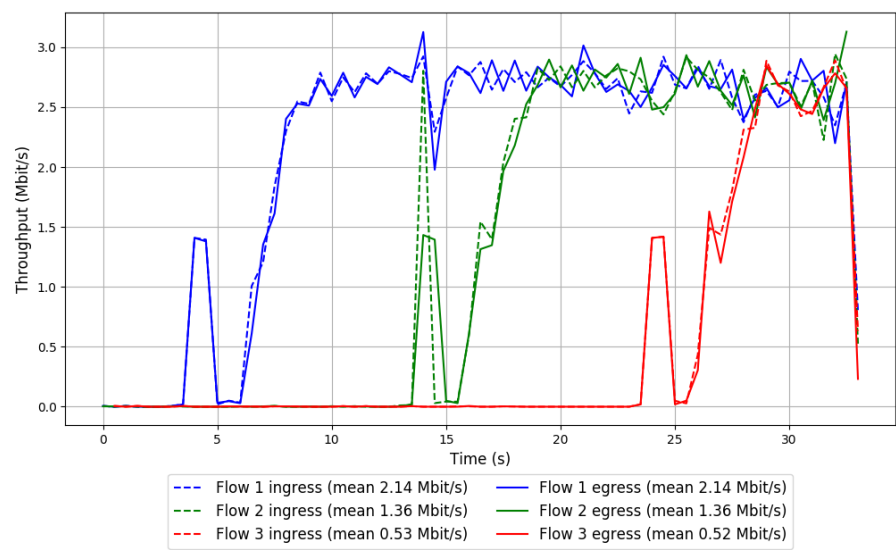
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 87.195 ms

Loss rate: 2.67%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-26 09:38:14

End at: 2018-01-26 09:38:44

Below is generated by plot.py at 2018-01-26 14:32:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 87.385 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 87.165 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 87.213 ms

Loss rate: 1.55%

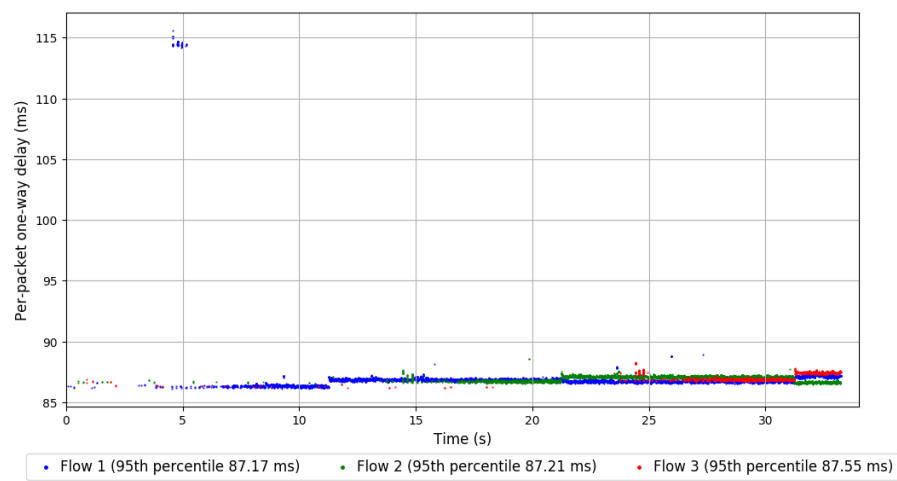
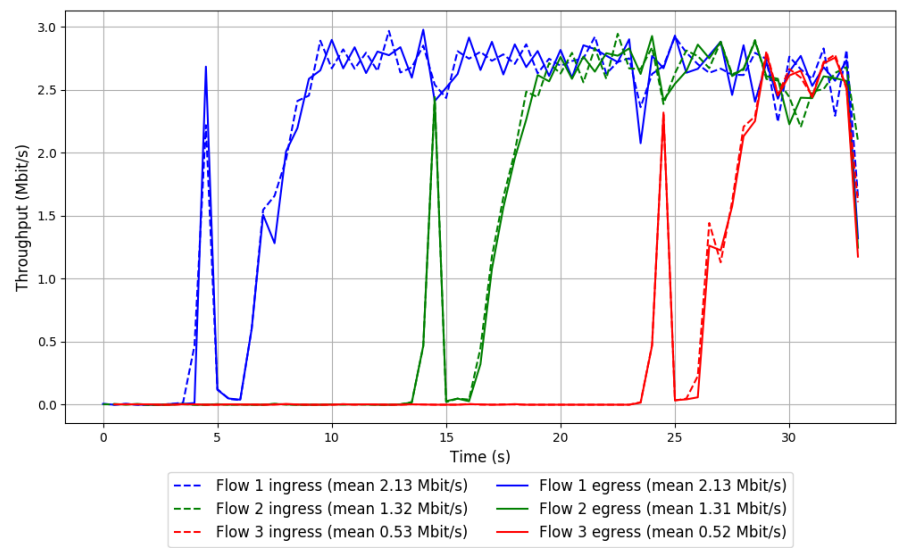
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 87.552 ms

Loss rate: 2.62%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-26 09:53:24

End at: 2018-01-26 09:53:54

Below is generated by plot.py at 2018-01-26 14:32:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.98 Mbit/s

95th percentile per-packet one-way delay: 114.318 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 114.371 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 86.949 ms

Loss rate: 0.79%

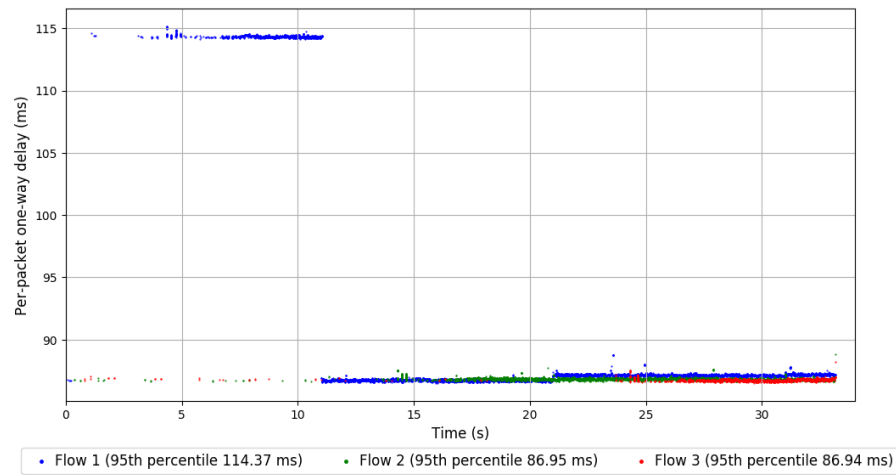
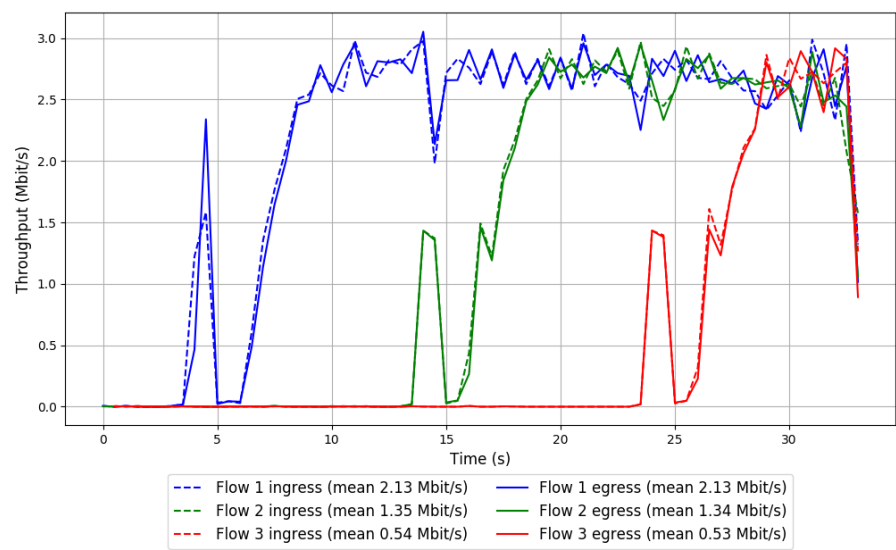
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 86.937 ms

Loss rate: 2.31%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-26 10:08:10

End at: 2018-01-26 10:08:40

Below is generated by plot.py at 2018-01-26 14:32:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 114.080 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 114.102 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 86.862 ms

Loss rate: 1.24%

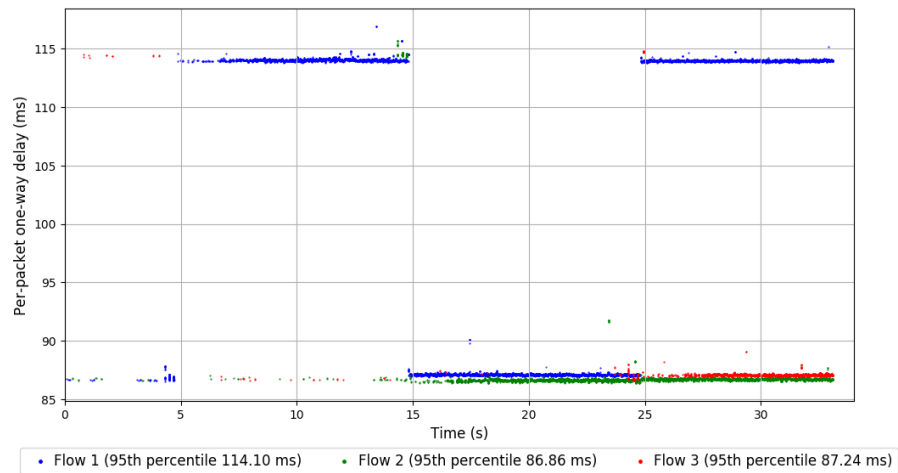
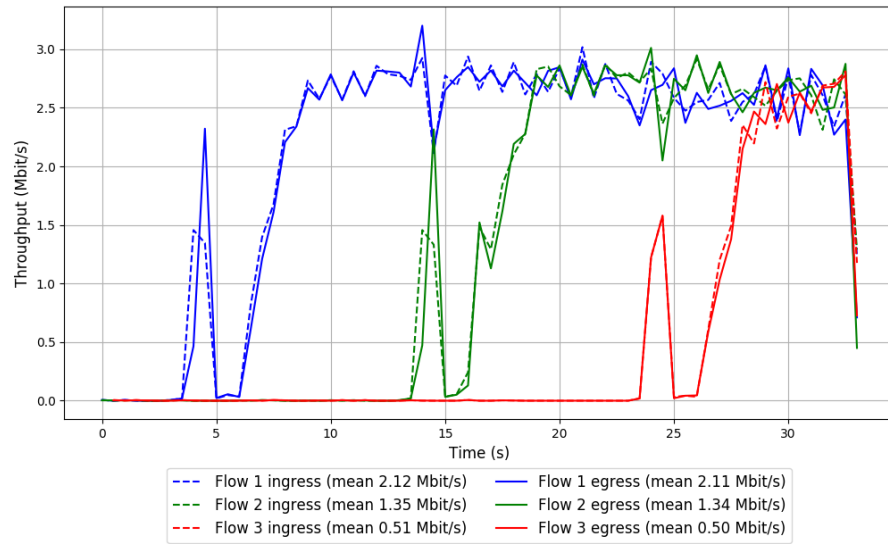
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 87.242 ms

Loss rate: 2.83%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-26 10:23:38

End at: 2018-01-26 10:24:08

Below is generated by plot.py at 2018-01-26 14:32:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.83 Mbit/s

95th percentile per-packet one-way delay: 114.376 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 86.909 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 114.448 ms

Loss rate: 1.40%

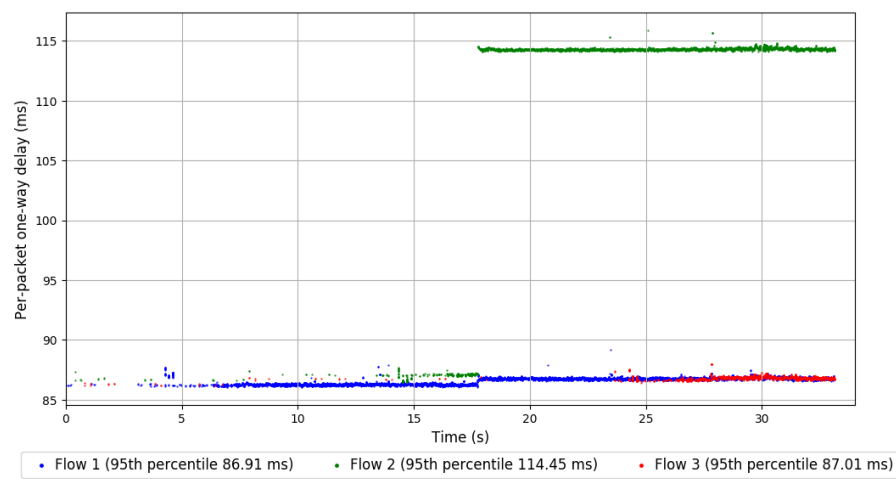
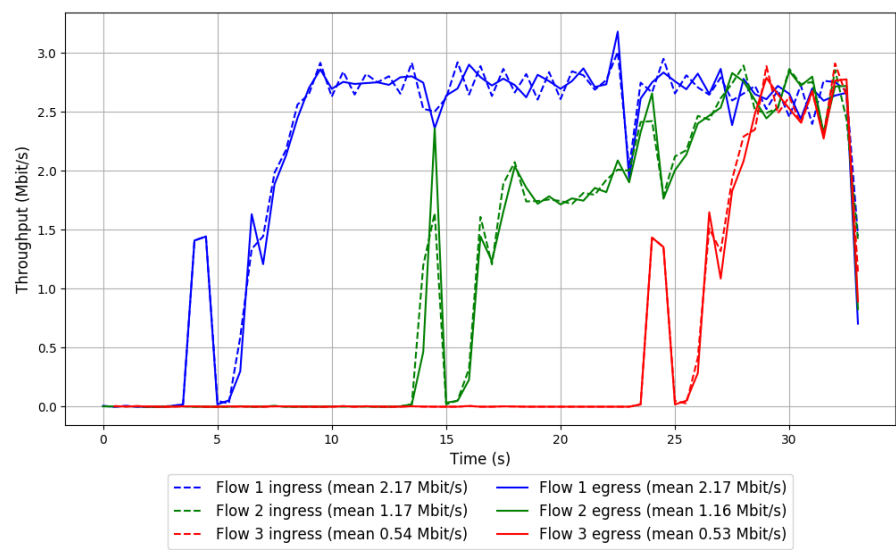
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 87.014 ms

Loss rate: 2.02%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-26 10:38:37

End at: 2018-01-26 10:39:07

Below is generated by plot.py at 2018-01-26 14:32:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 87.106 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 87.141 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 86.811 ms

Loss rate: 1.45%

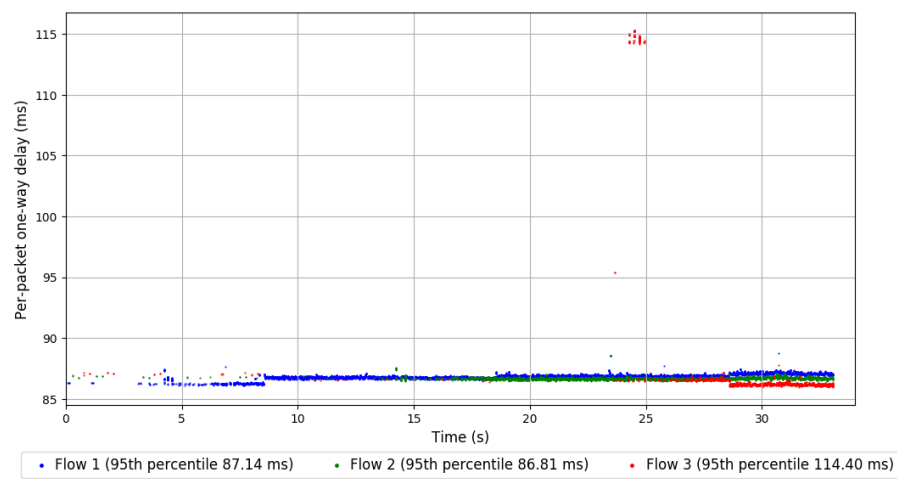
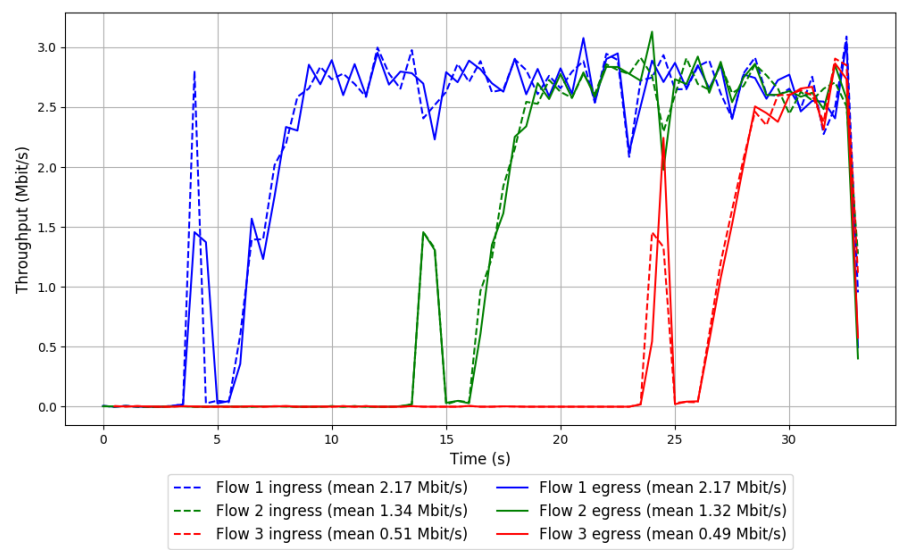
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 114.399 ms

Loss rate: 3.37%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-26 10:53:53

End at: 2018-01-26 10:54:23

Below is generated by plot.py at 2018-01-26 14:32:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.98 Mbit/s

95th percentile per-packet one-way delay: 87.036 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 86.771 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 87.137 ms

Loss rate: 1.34%

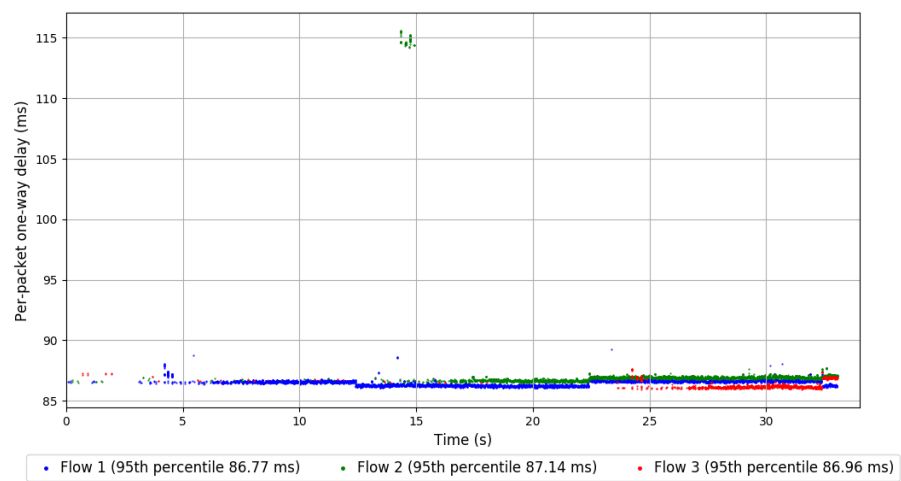
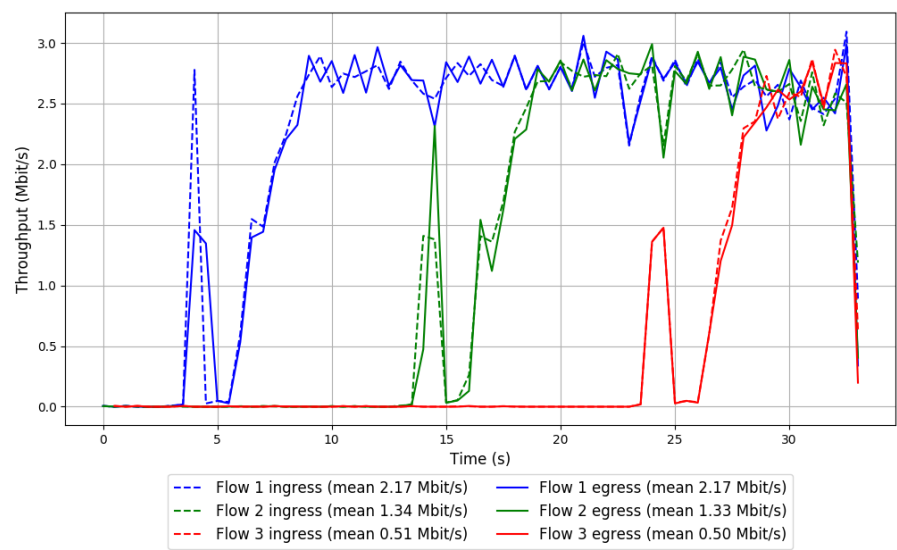
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 86.960 ms

Loss rate: 2.56%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-26 11:09:22

End at: 2018-01-26 11:09:52

Below is generated by plot.py at 2018-01-26 14:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.96 Mbit/s

95th percentile per-packet one-way delay: 87.127 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 86.739 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 1.36 Mbit/s

95th percentile per-packet one-way delay: 87.176 ms

Loss rate: 0.88%

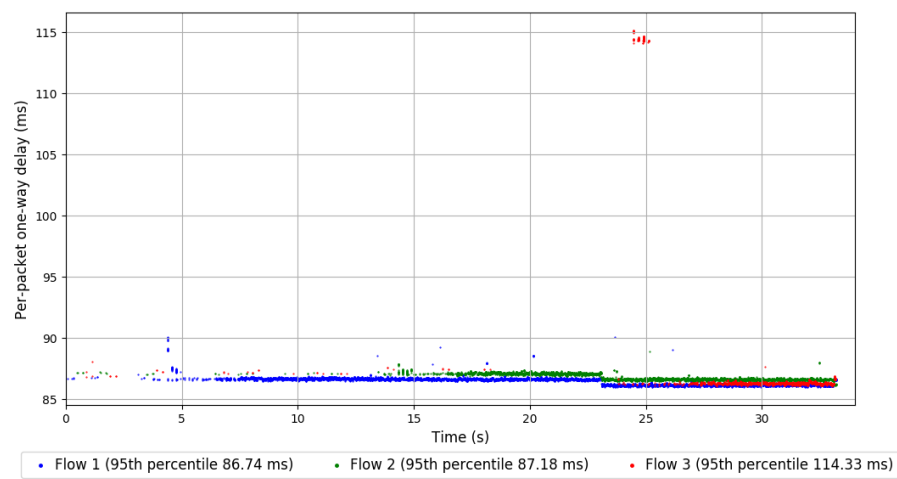
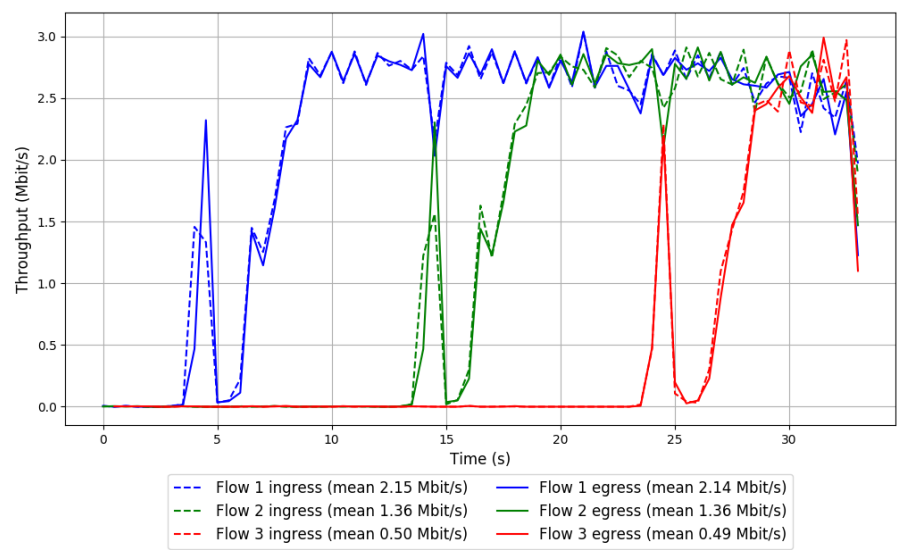
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 114.333 ms

Loss rate: 2.95%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-26 11:24:58

End at: 2018-01-26 11:25:28

Below is generated by plot.py at 2018-01-26 14:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.98 Mbit/s

95th percentile per-packet one-way delay: 87.222 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 87.242 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 86.803 ms

Loss rate: 1.57%

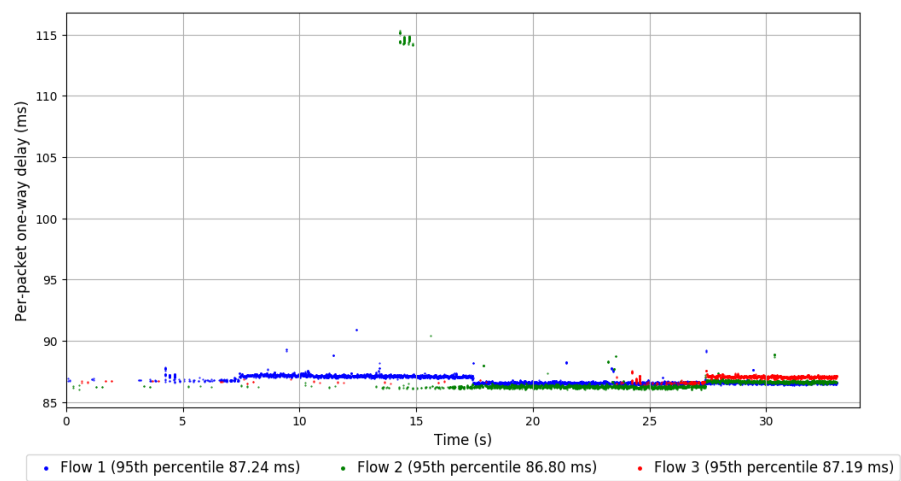
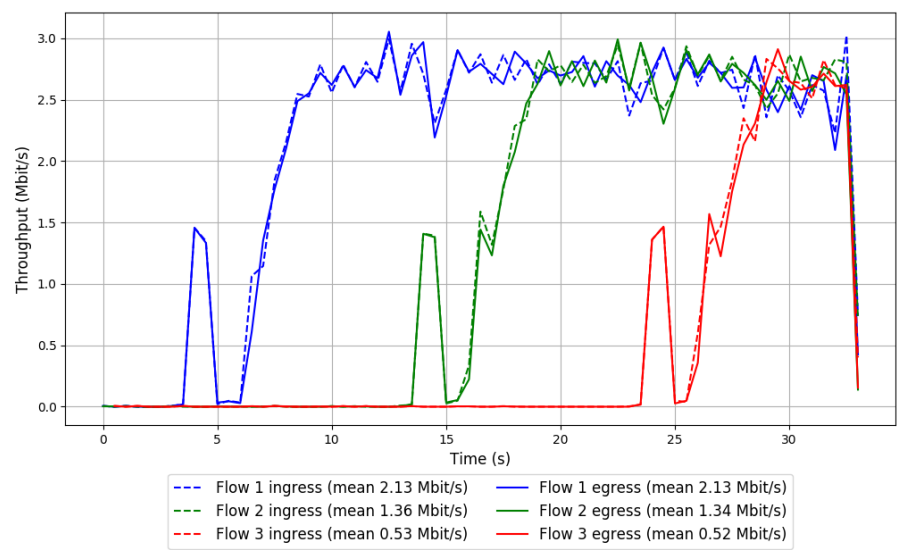
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 87.188 ms

Loss rate: 2.12%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-26 09:06:33

End at: 2018-01-26 09:07:03

Below is generated by plot.py at 2018-01-26 14:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.27 Mbit/s

95th percentile per-packet one-way delay: 87.793 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 3.48 Mbit/s

95th percentile per-packet one-way delay: 87.780 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 3.21 Mbit/s

95th percentile per-packet one-way delay: 87.886 ms

Loss rate: 1.45%

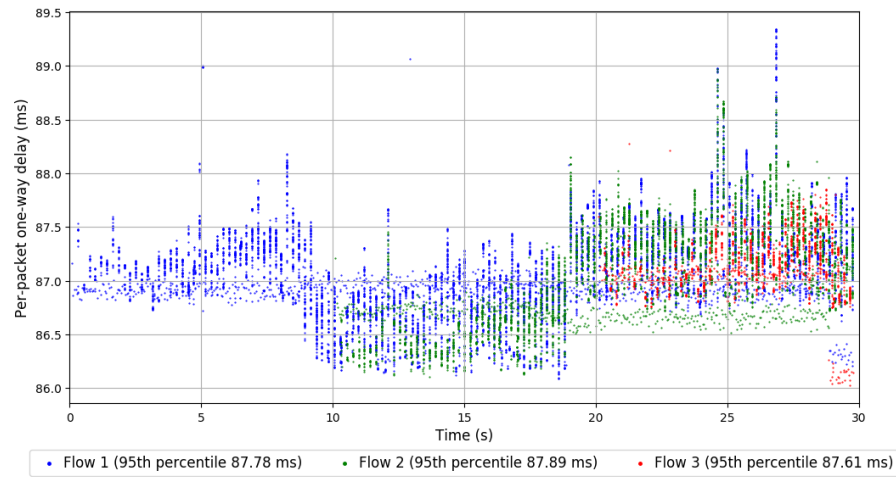
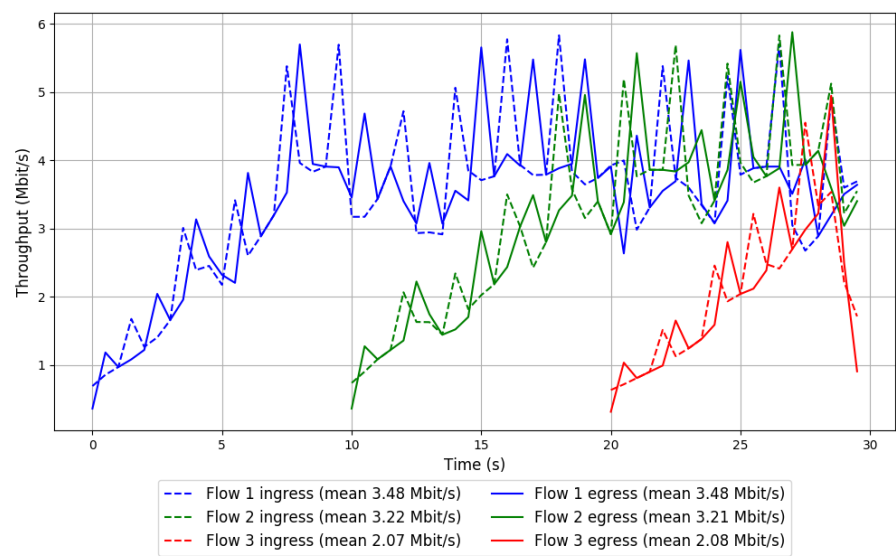
-- Flow 3:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 87.605 ms

Loss rate: 1.98%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-26 09:22:03

End at: 2018-01-26 09:22:33

Below is generated by plot.py at 2018-01-26 14:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.86 Mbit/s

95th percentile per-packet one-way delay: 87.909 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 87.707 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 3.78 Mbit/s

95th percentile per-packet one-way delay: 88.007 ms

Loss rate: 1.30%

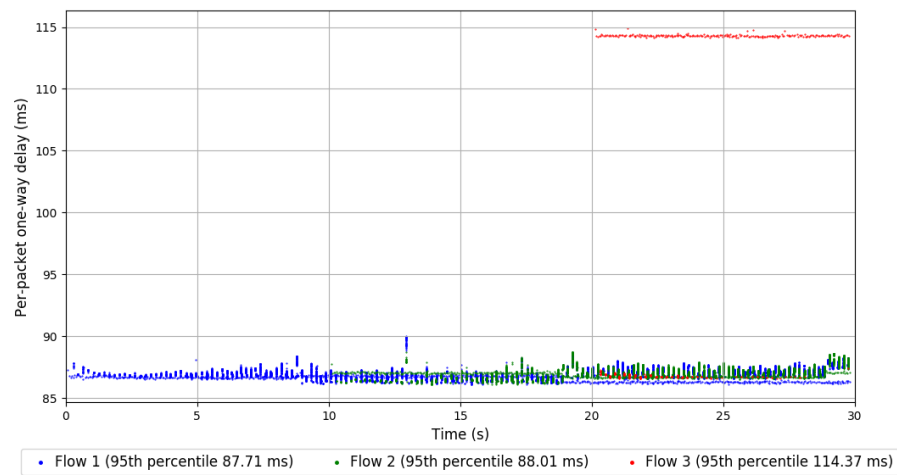
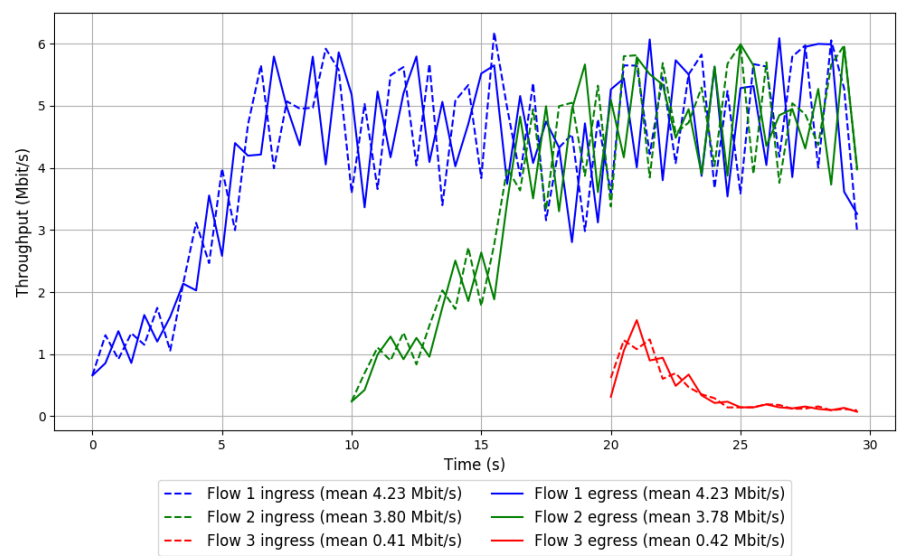
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 114.373 ms

Loss rate: 0.57%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-26 09:37:30

End at: 2018-01-26 09:38:00

Below is generated by plot.py at 2018-01-26 14:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.27 Mbit/s

95th percentile per-packet one-way delay: 114.981 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 2.74 Mbit/s

95th percentile per-packet one-way delay: 115.092 ms

Loss rate: 1.19%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 114.445 ms

Loss rate: 2.39%

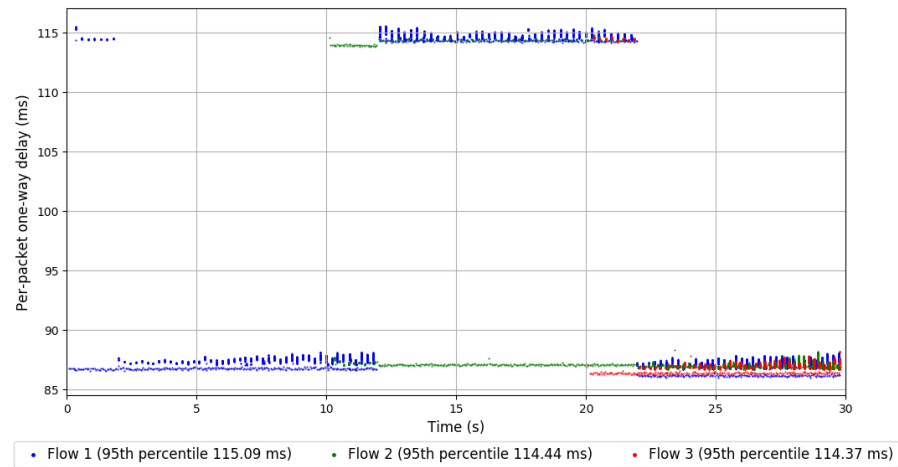
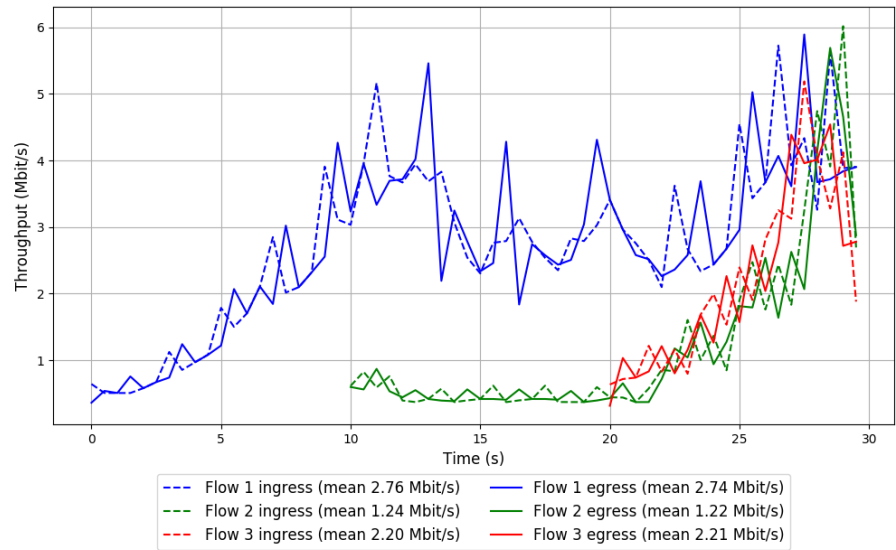
-- Flow 3:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 114.373 ms

Loss rate: 1.17%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-26 09:52:39

End at: 2018-01-26 09:53:09

Below is generated by plot.py at 2018-01-26 14:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.93 Mbit/s

95th percentile per-packet one-way delay: 88.158 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 3.34 Mbit/s

95th percentile per-packet one-way delay: 88.086 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 2.78 Mbit/s

95th percentile per-packet one-way delay: 88.183 ms

Loss rate: 0.67%

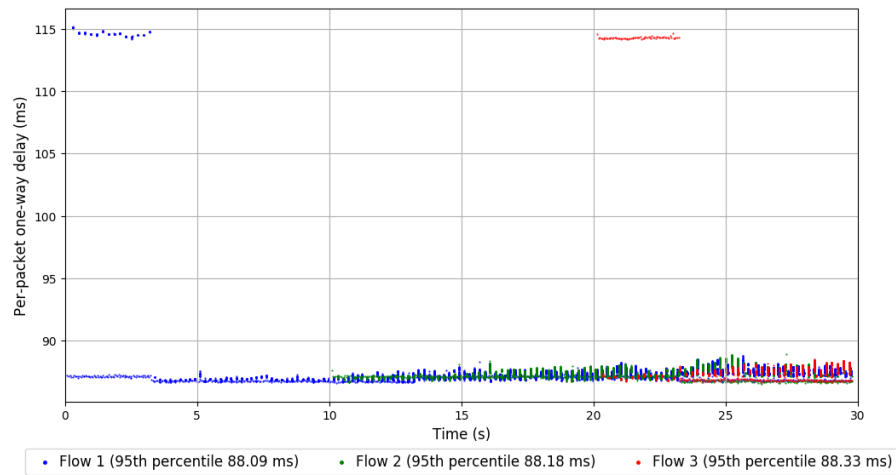
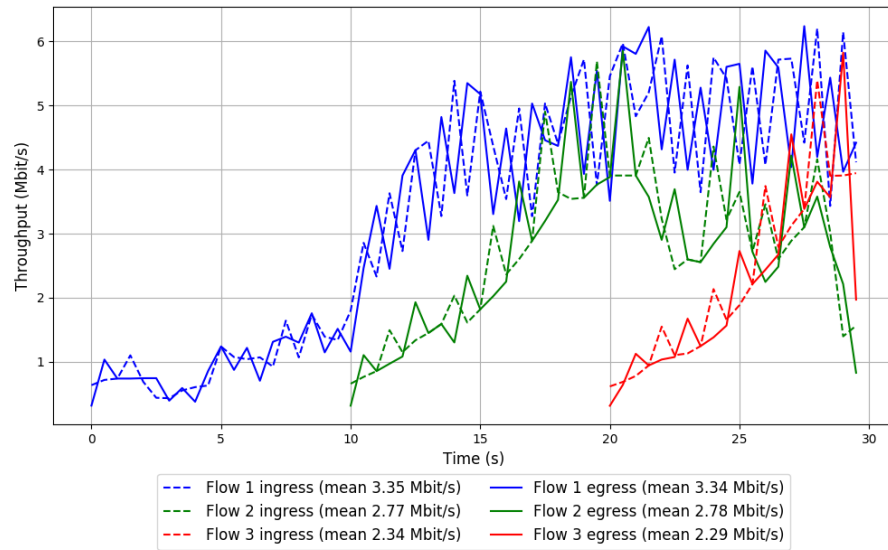
-- Flow 3:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 88.326 ms

Loss rate: 4.28%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-26 10:07:27

End at: 2018-01-26 10:07:57

Below is generated by plot.py at 2018-01-26 14:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.33 Mbit/s

95th percentile per-packet one-way delay: 87.945 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 87.919 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 3.36 Mbit/s

95th percentile per-packet one-way delay: 87.868 ms

Loss rate: 1.38%

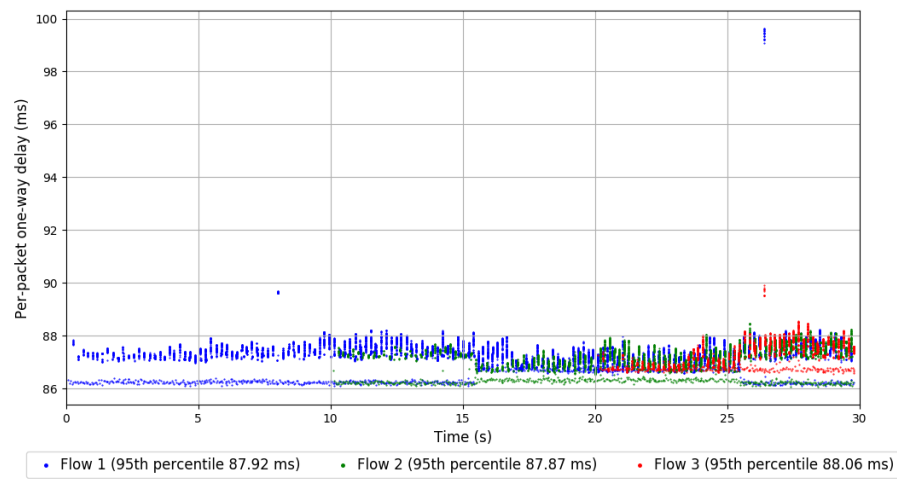
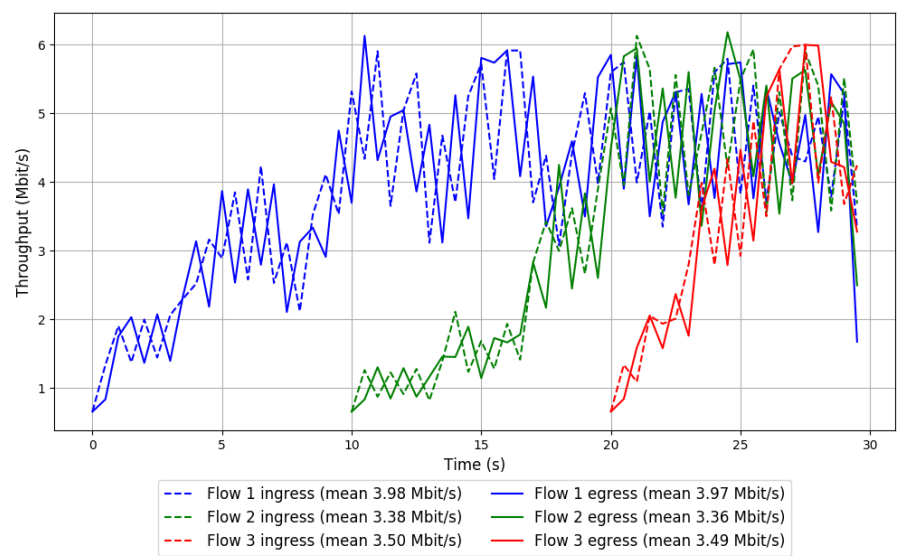
-- Flow 3:

Average throughput: 3.49 Mbit/s

95th percentile per-packet one-way delay: 88.058 ms

Loss rate: 1.99%

Run 5: Report of Sprout — Data Link

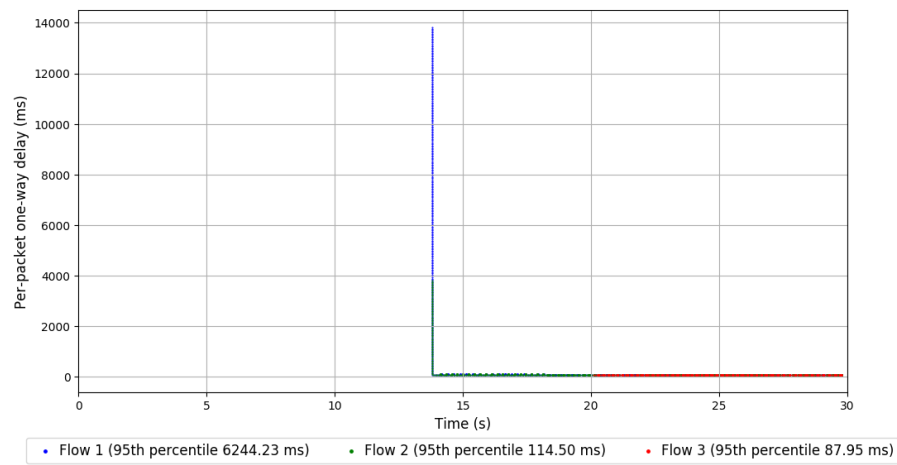
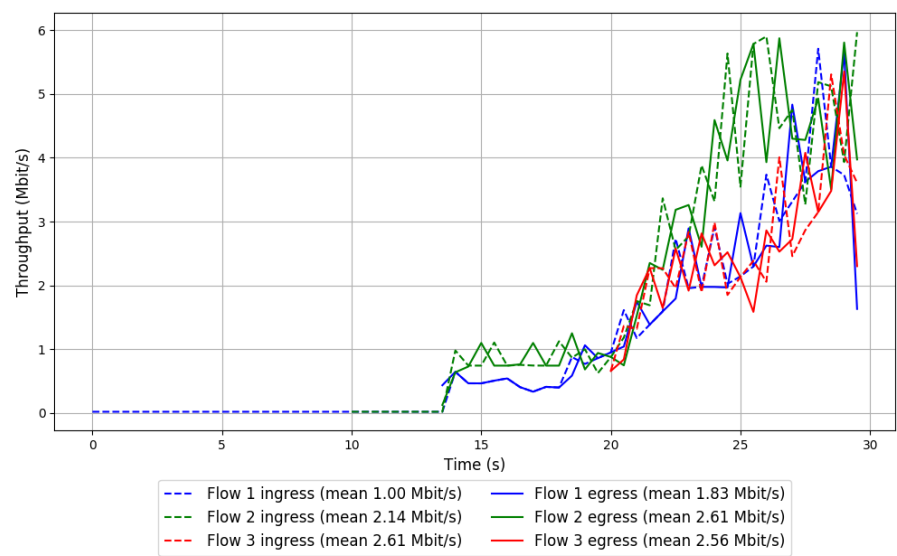


Run 6: Statistics of Sprout

Start at: 2018-01-26 10:22:54

End at: 2018-01-26 10:23:24

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-26 10:37:53

End at: 2018-01-26 10:38:23

Below is generated by plot.py at 2018-01-26 14:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.00 Mbit/s

95th percentile per-packet one-way delay: 87.968 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 114.341 ms

Loss rate: 1.45%

-- Flow 2:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 87.845 ms

Loss rate: 1.04%

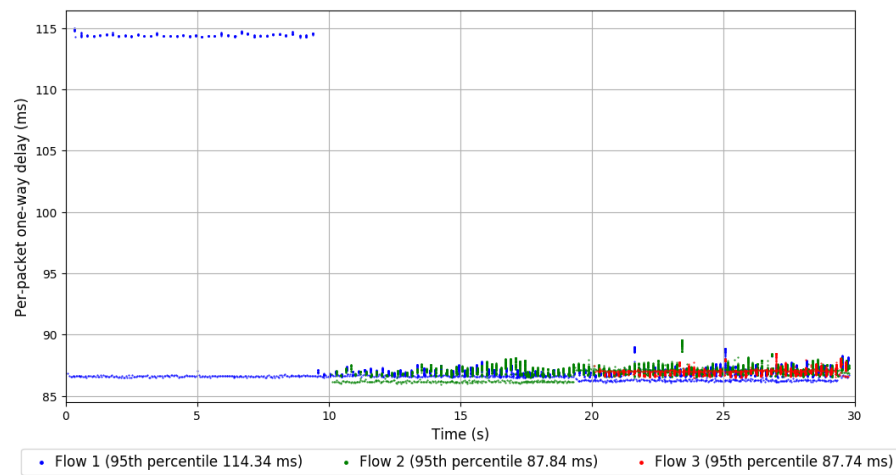
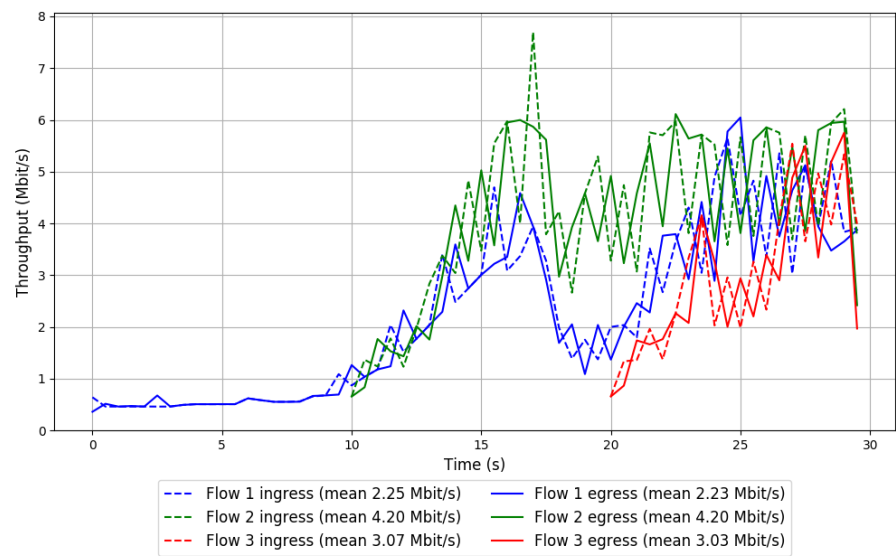
-- Flow 3:

Average throughput: 3.03 Mbit/s

95th percentile per-packet one-way delay: 87.740 ms

Loss rate: 3.33%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-26 10:53:09

End at: 2018-01-26 10:53:39

Below is generated by plot.py at 2018-01-26 14:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.71 Mbit/s

95th percentile per-packet one-way delay: 87.901 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 3.42 Mbit/s

95th percentile per-packet one-way delay: 87.900 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 3.44 Mbit/s

95th percentile per-packet one-way delay: 87.959 ms

Loss rate: 1.22%

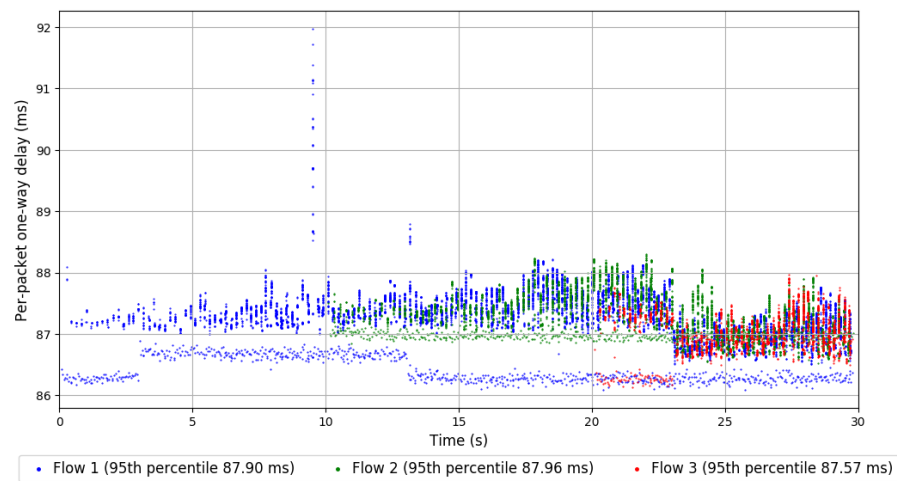
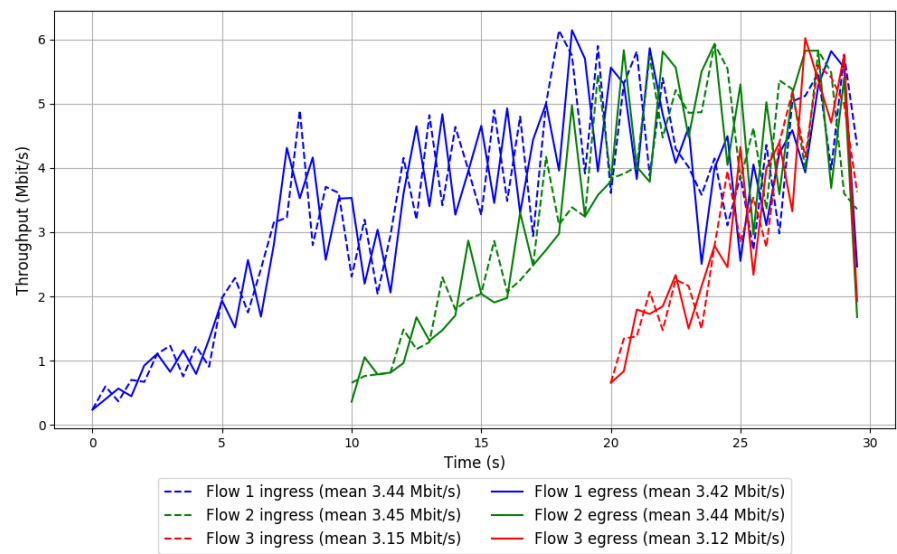
-- Flow 3:

Average throughput: 3.12 Mbit/s

95th percentile per-packet one-way delay: 87.574 ms

Loss rate: 3.01%

Run 8: Report of Sprout — Data Link

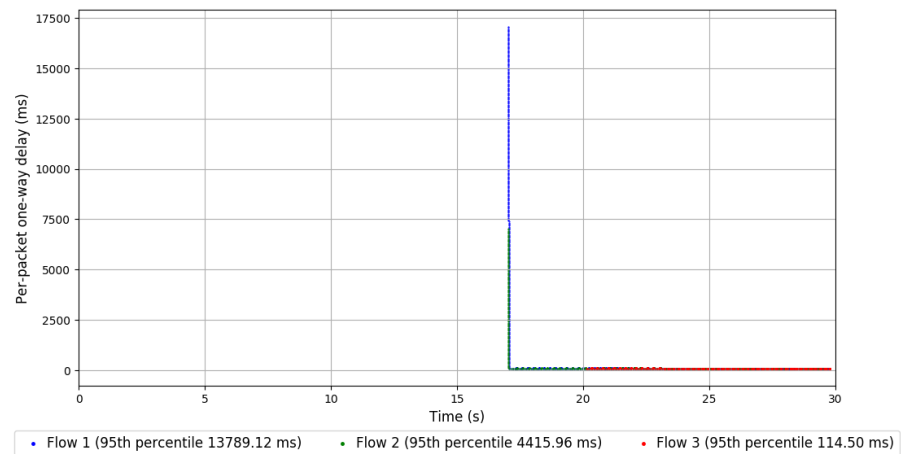
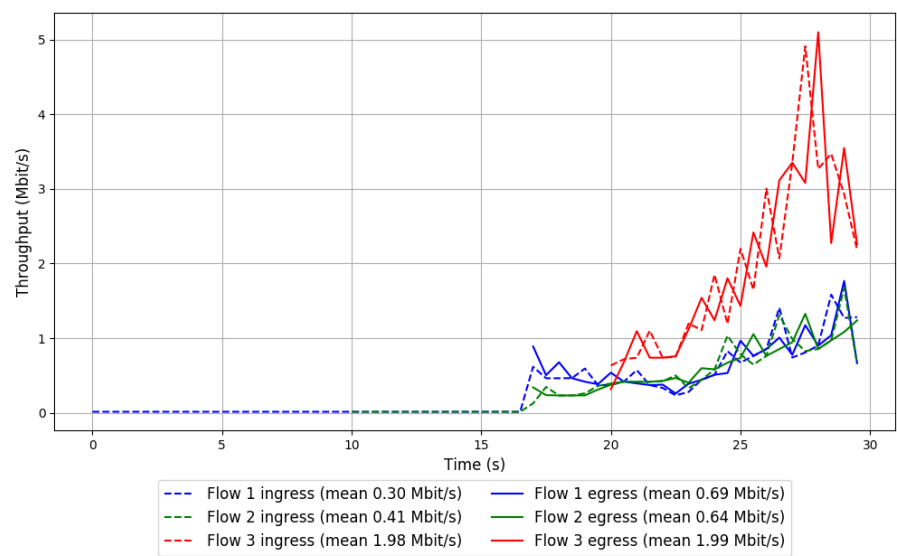


Run 9: Statistics of Sprout

Start at: 2018-01-26 11:08:39

End at: 2018-01-26 11:09:09

Run 9: Report of Sprout — Data Link

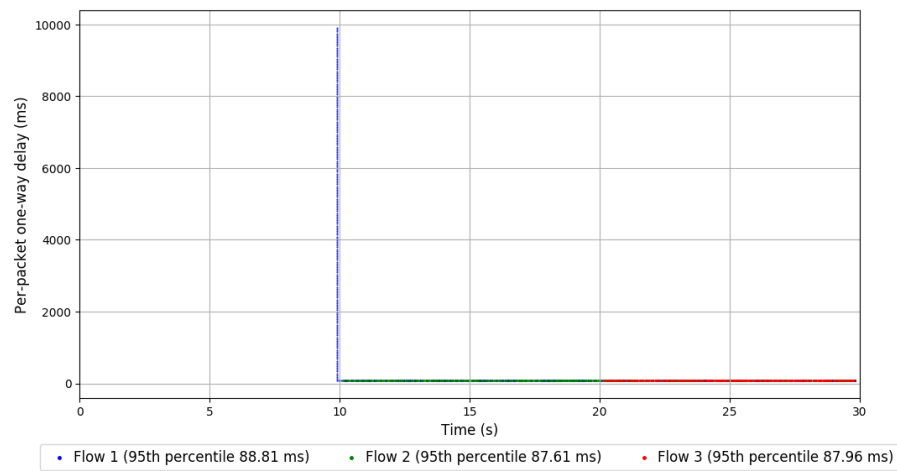
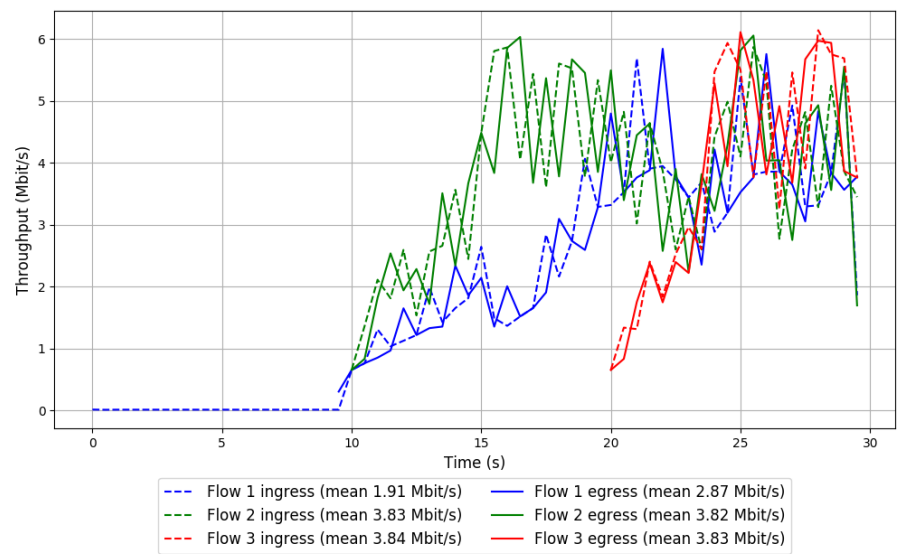


Run 10: Statistics of Sprout

Start at: 2018-01-26 11:24:14

End at: 2018-01-26 11:24:44

Run 10: Report of Sprout — Data Link

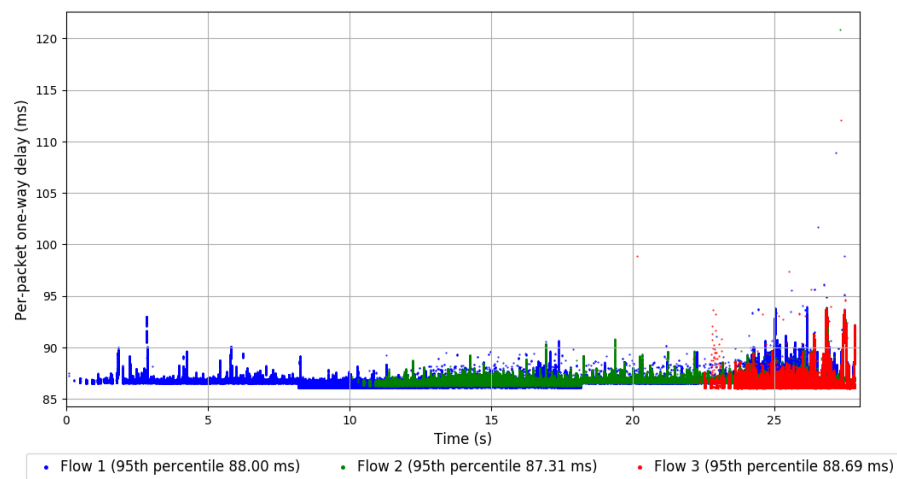
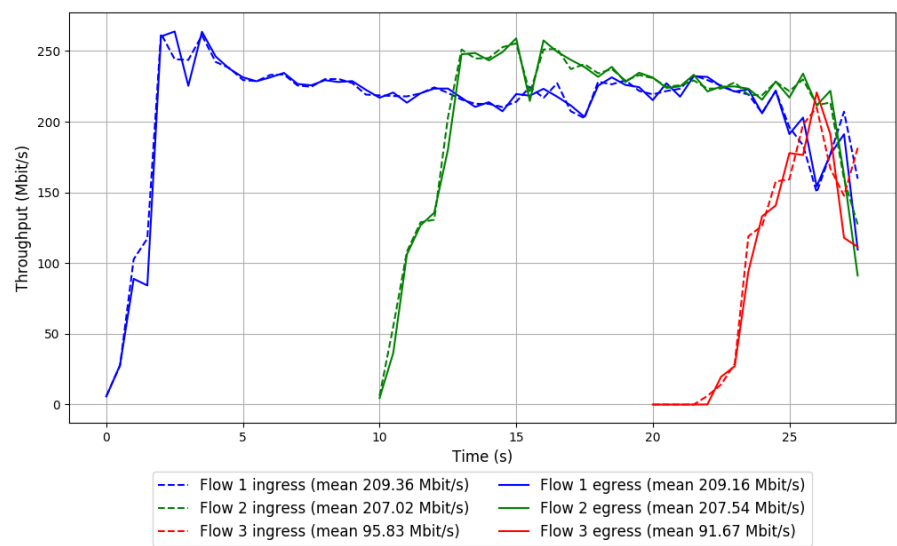


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-26 09:03:12
End at: 2018-01-26 09:03:42

# Below is generated by plot.py at 2018-01-26 14:39:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 367.30 Mbit/s
95th percentile per-packet one-way delay: 87.765 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 209.16 Mbit/s
95th percentile per-packet one-way delay: 88.000 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 207.54 Mbit/s
95th percentile per-packet one-way delay: 87.313 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 91.67 Mbit/s
95th percentile per-packet one-way delay: 88.693 ms
Loss rate: 6.94%
```


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

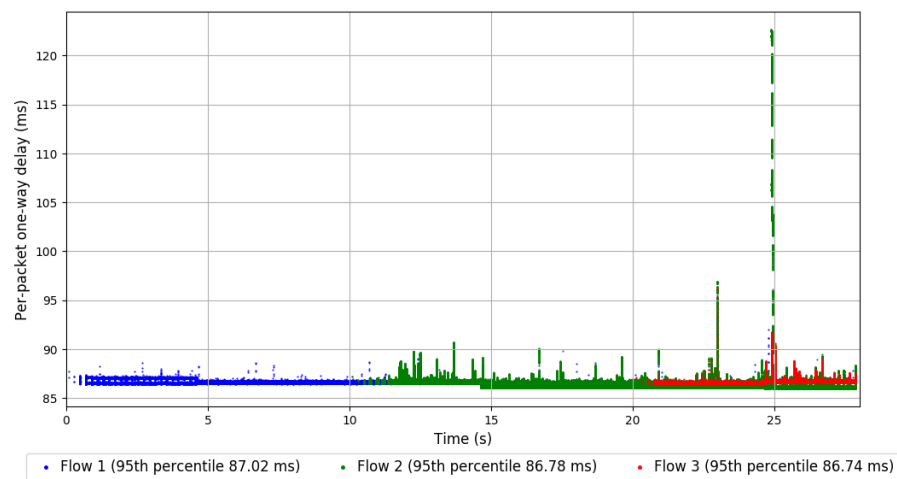
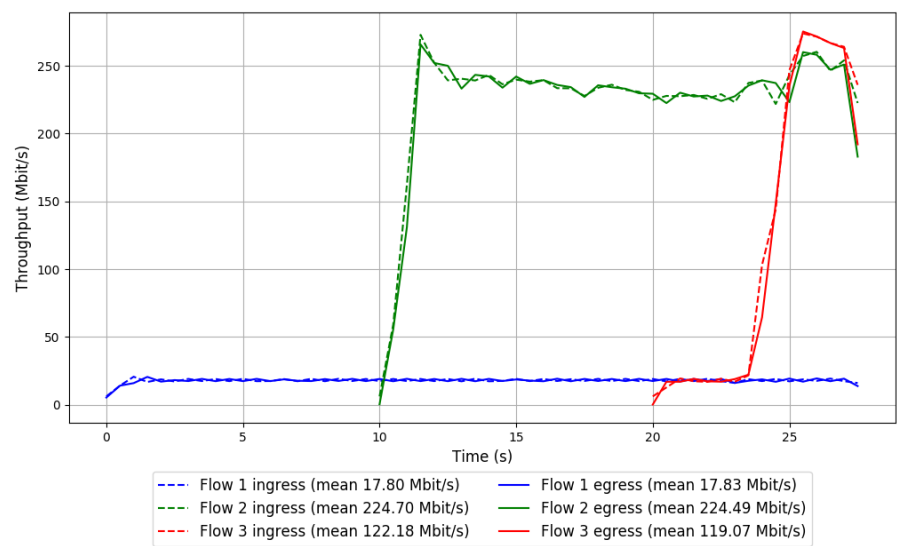


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-26 09:19:05
End at: 2018-01-26 09:19:35

# Below is generated by plot.py at 2018-01-26 14:39:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 194.63 Mbit/s
95th percentile per-packet one-way delay: 86.782 ms
Loss rate: 1.65%
-- Flow 1:
Average throughput: 17.83 Mbit/s
95th percentile per-packet one-way delay: 87.024 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 224.49 Mbit/s
95th percentile per-packet one-way delay: 86.777 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 119.07 Mbit/s
95th percentile per-packet one-way delay: 86.742 ms
Loss rate: 4.70%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-01-26 09:34:29

End at: 2018-01-26 09:34:59

Below is generated by plot.py at 2018-01-26 14:39:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 280.17 Mbit/s

95th percentile per-packet one-way delay: 93.833 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 127.65 Mbit/s

95th percentile per-packet one-way delay: 101.900 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 176.31 Mbit/s

95th percentile per-packet one-way delay: 87.174 ms

Loss rate: 0.83%

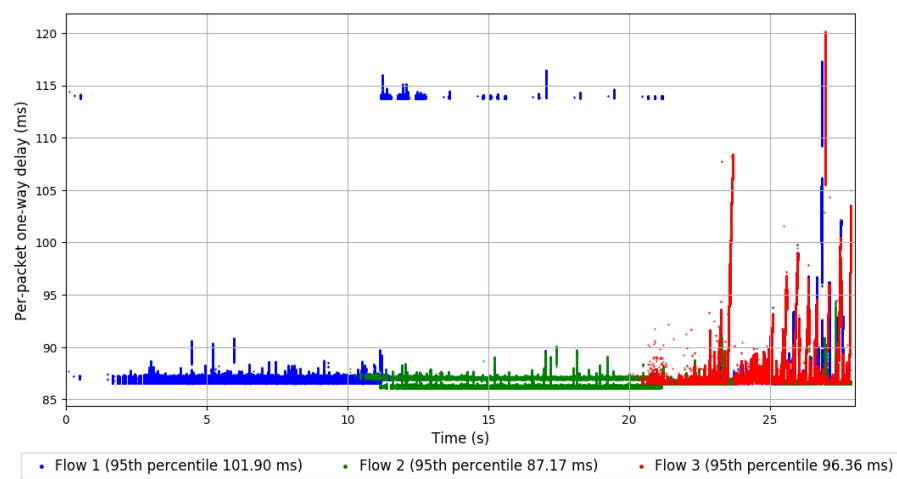
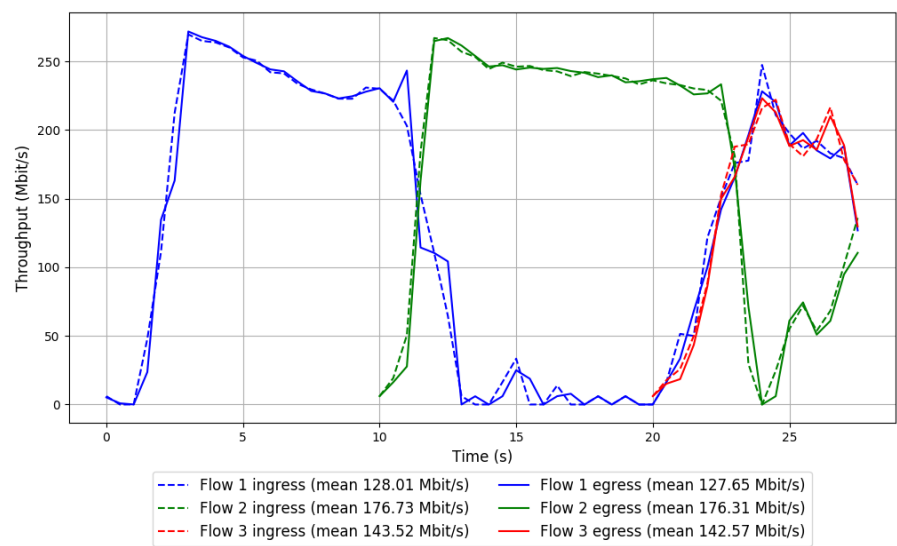
-- Flow 3:

Average throughput: 142.57 Mbit/s

95th percentile per-packet one-way delay: 96.358 ms

Loss rate: 2.82%

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

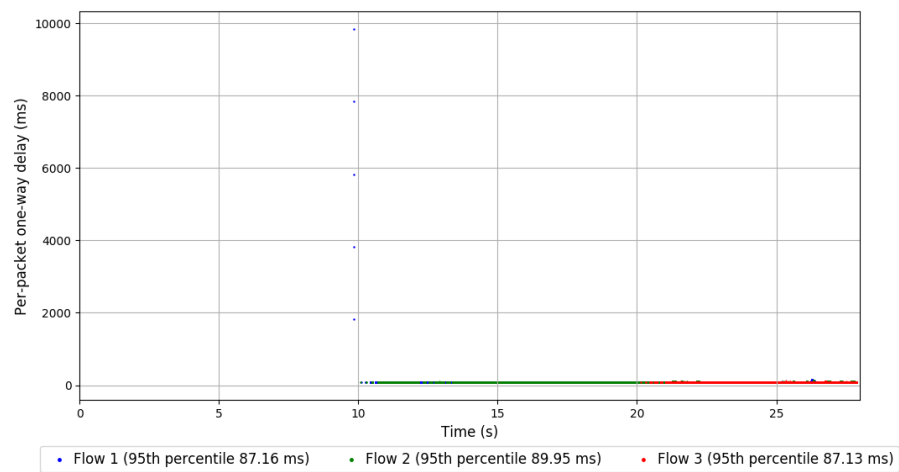
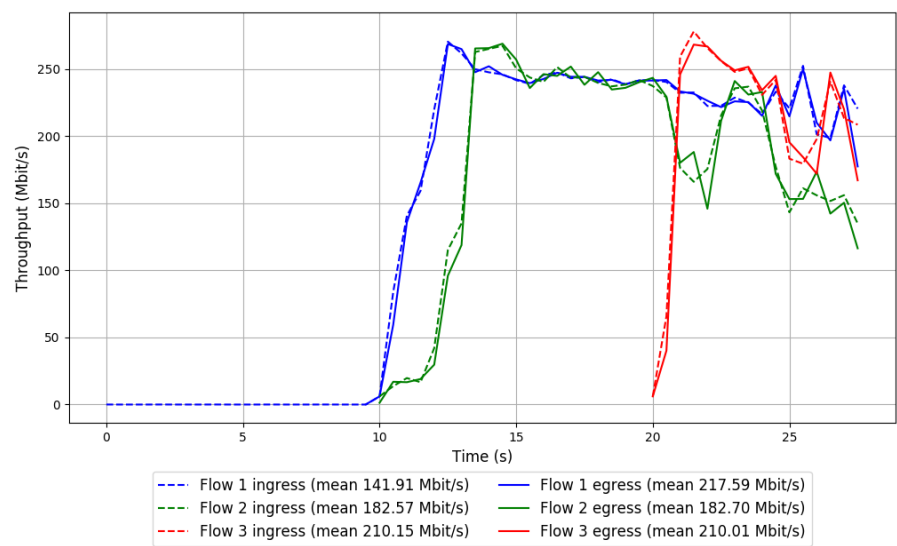


Run 4: Statistics of TaoVA-100x

Start at: 2018-01-26 09:49:35

End at: 2018-01-26 09:50:05

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-26 10:04:25

End at: 2018-01-26 10:04:55

Below is generated by plot.py at 2018-01-26 14:39:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 322.53 Mbit/s

95th percentile per-packet one-way delay: 114.189 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 140.39 Mbit/s

95th percentile per-packet one-way delay: 114.154 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 195.19 Mbit/s

95th percentile per-packet one-way delay: 114.228 ms

Loss rate: 0.84%

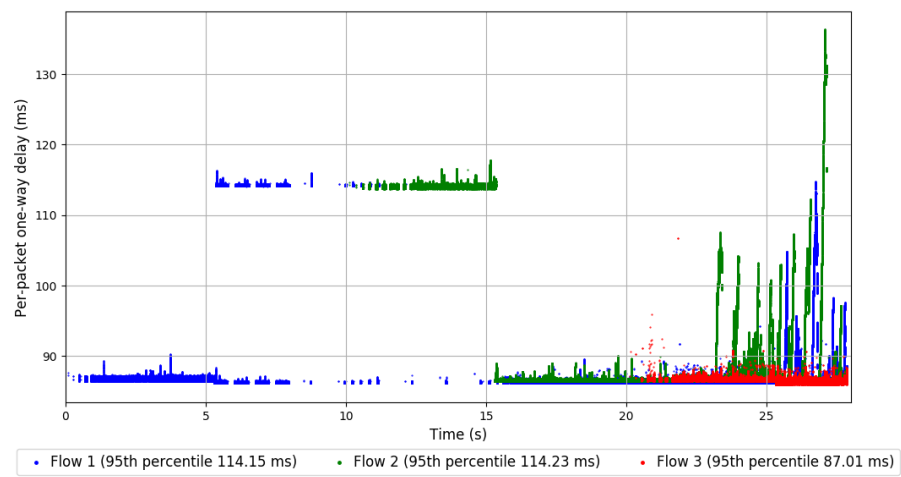
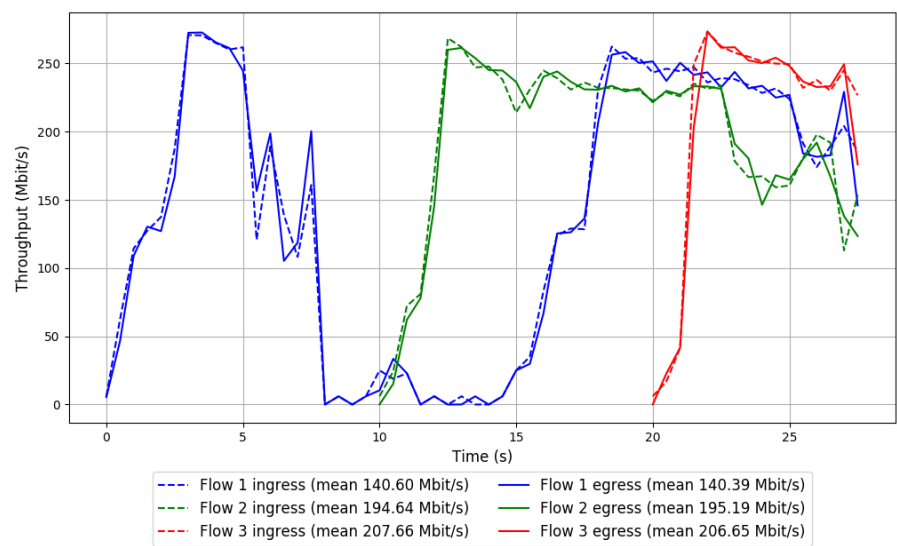
-- Flow 3:

Average throughput: 206.65 Mbit/s

95th percentile per-packet one-way delay: 87.011 ms

Loss rate: 2.68%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-26 10:19:41

End at: 2018-01-26 10:20:11

Below is generated by plot.py at 2018-01-26 14:41:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 355.14 Mbit/s

95th percentile per-packet one-way delay: 87.727 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 157.54 Mbit/s

95th percentile per-packet one-way delay: 87.217 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 222.28 Mbit/s

95th percentile per-packet one-way delay: 88.415 ms

Loss rate: 1.05%

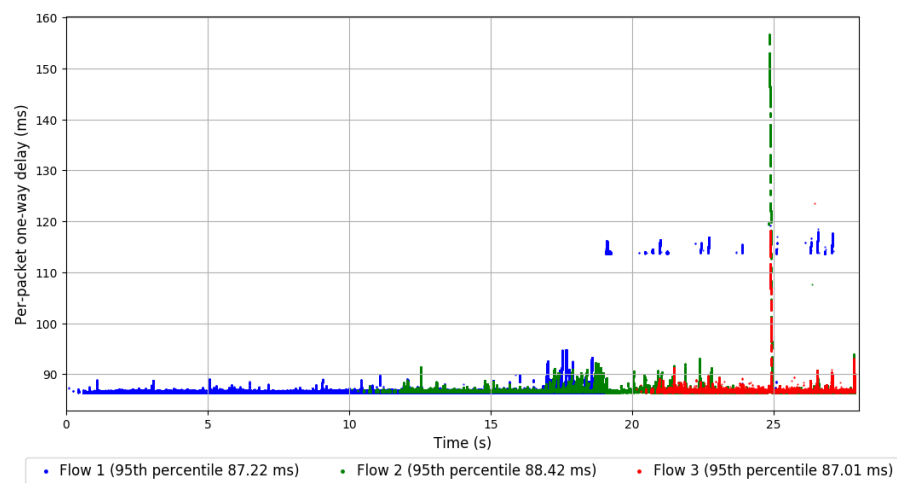
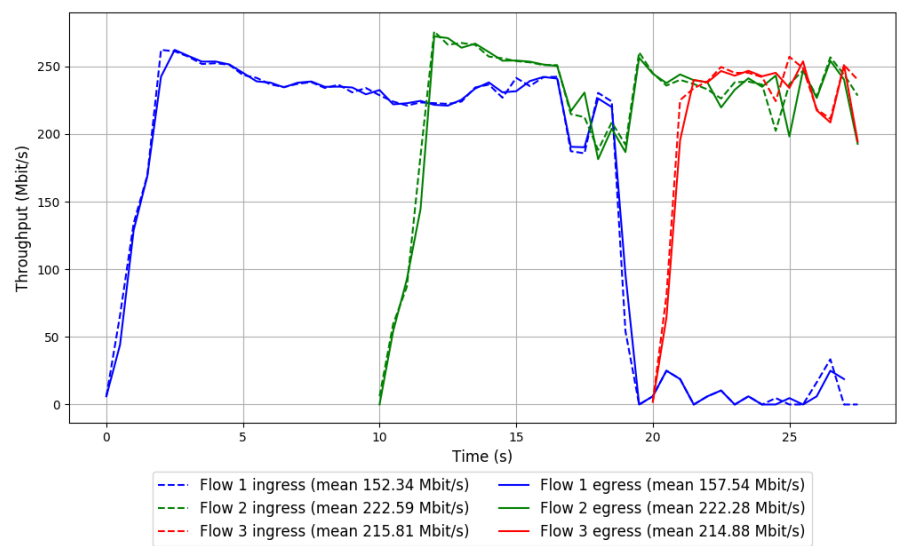
-- Flow 3:

Average throughput: 214.88 Mbit/s

95th percentile per-packet one-way delay: 87.014 ms

Loss rate: 2.61%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-26 10:34:34

End at: 2018-01-26 10:35:04

Below is generated by plot.py at 2018-01-26 14:44:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 407.94 Mbit/s

95th percentile per-packet one-way delay: 88.224 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 217.53 Mbit/s

95th percentile per-packet one-way delay: 87.845 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 209.32 Mbit/s

95th percentile per-packet one-way delay: 90.765 ms

Loss rate: 0.88%

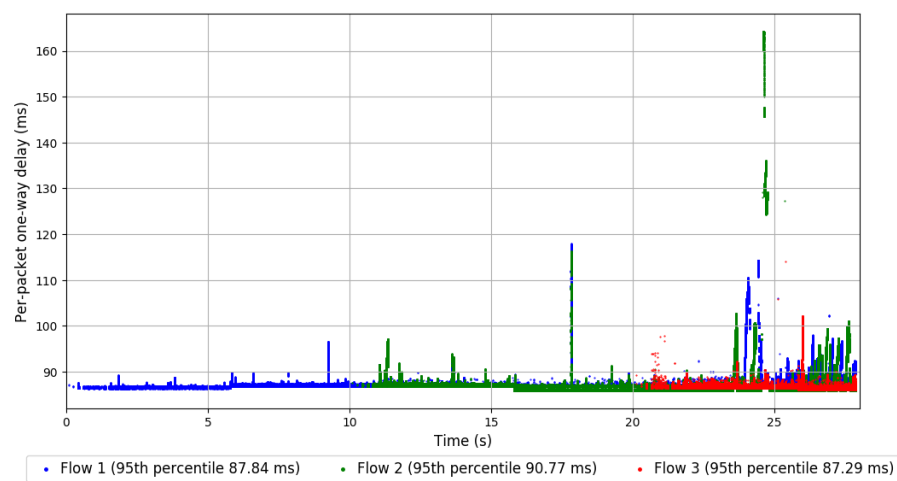
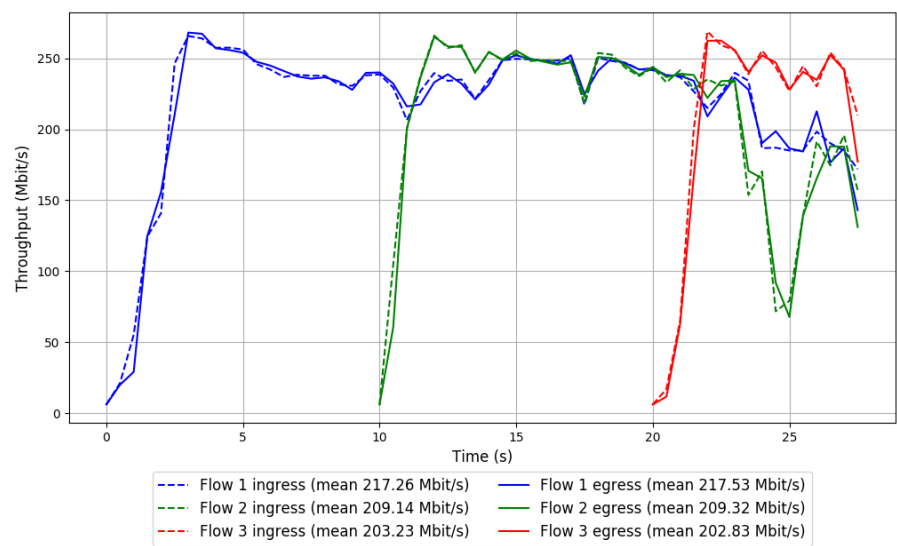
-- Flow 3:

Average throughput: 202.83 Mbit/s

95th percentile per-packet one-way delay: 87.293 ms

Loss rate: 2.37%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-26 10:50:07

End at: 2018-01-26 10:50:37

Below is generated by plot.py at 2018-01-26 14:44:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 328.23 Mbit/s

95th percentile per-packet one-way delay: 88.649 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 167.91 Mbit/s

95th percentile per-packet one-way delay: 88.350 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 180.55 Mbit/s

95th percentile per-packet one-way delay: 87.848 ms

Loss rate: 1.10%

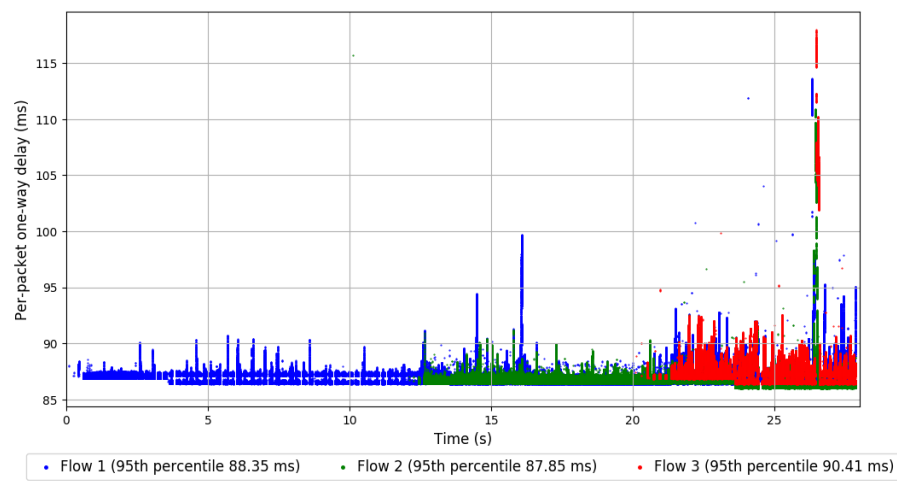
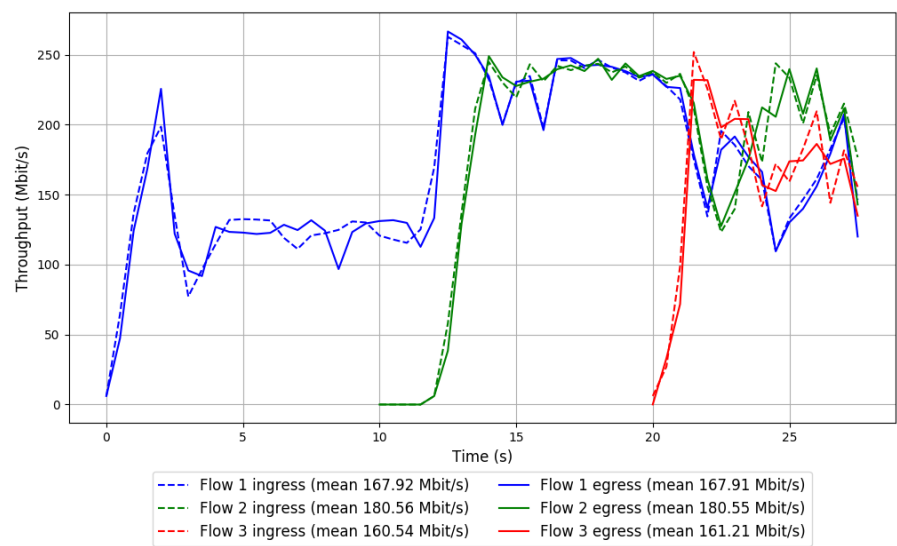
-- Flow 3:

Average throughput: 161.21 Mbit/s

95th percentile per-packet one-way delay: 90.410 ms

Loss rate: 1.79%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-26 11:05:38

End at: 2018-01-26 11:06:08

Below is generated by plot.py at 2018-01-26 14:45:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 364.60 Mbit/s

95th percentile per-packet one-way delay: 89.028 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 201.63 Mbit/s

95th percentile per-packet one-way delay: 88.129 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 186.12 Mbit/s

95th percentile per-packet one-way delay: 89.949 ms

Loss rate: 0.52%

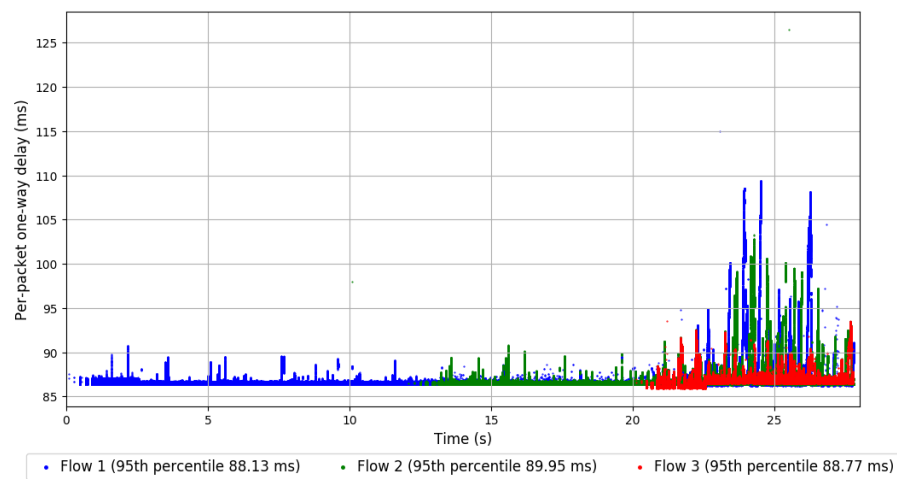
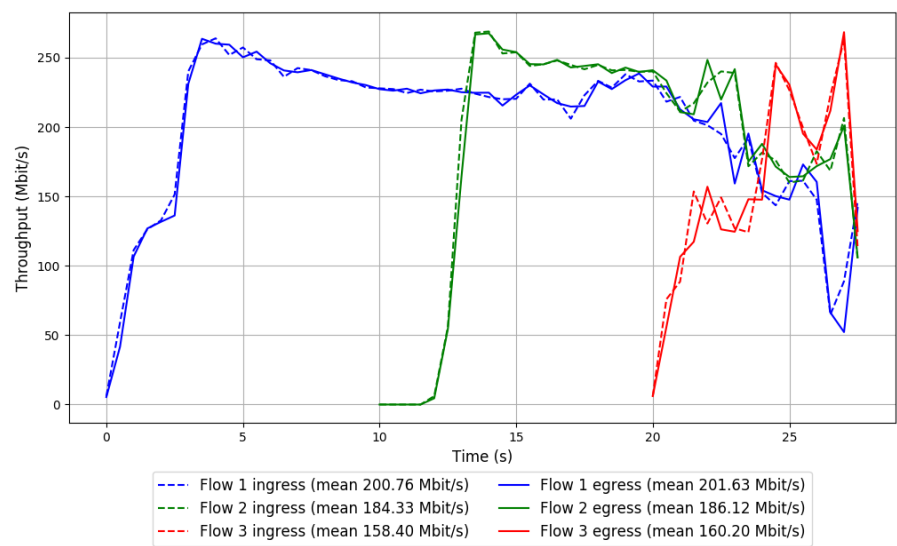
-- Flow 3:

Average throughput: 160.20 Mbit/s

95th percentile per-packet one-way delay: 88.769 ms

Loss rate: 1.11%

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

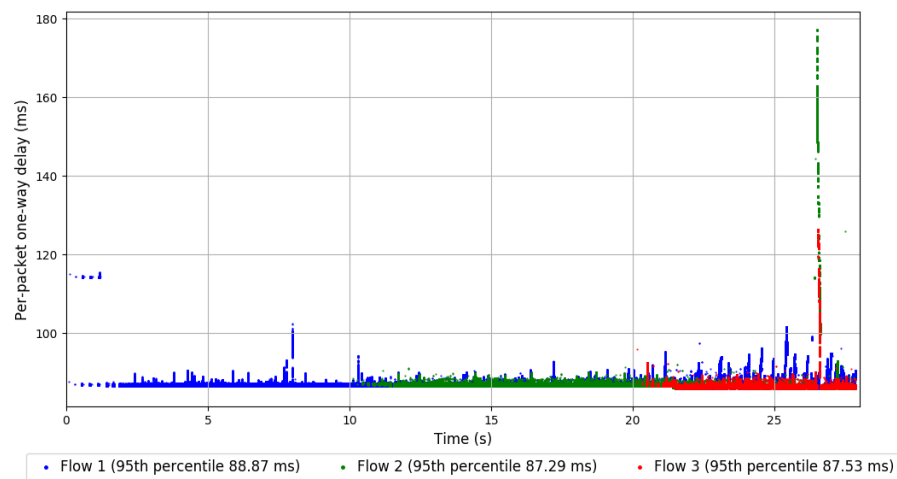
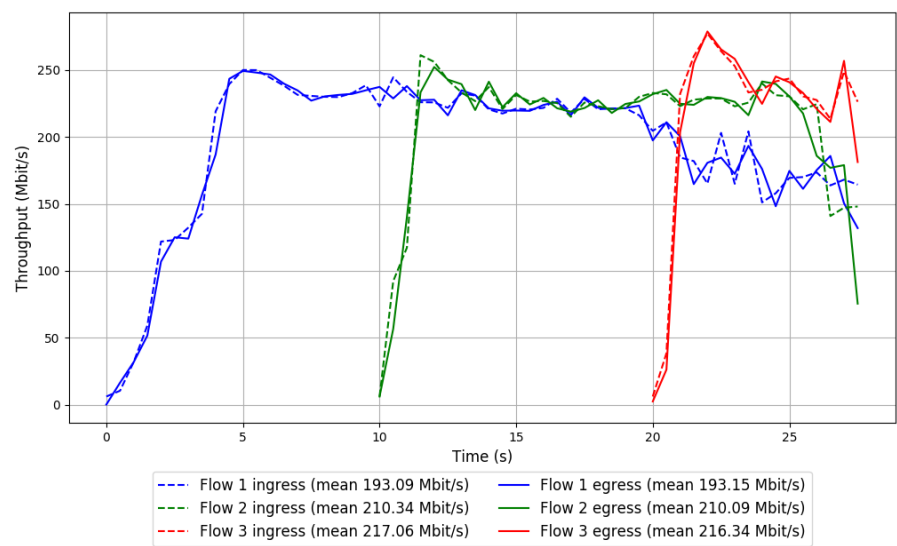


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-26 11:20:59
End at: 2018-01-26 11:21:29

# Below is generated by plot.py at 2018-01-26 14:49:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 387.65 Mbit/s
95th percentile per-packet one-way delay: 88.119 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 193.15 Mbit/s
95th percentile per-packet one-way delay: 88.866 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 210.09 Mbit/s
95th percentile per-packet one-way delay: 87.287 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 216.34 Mbit/s
95th percentile per-packet one-way delay: 87.526 ms
Loss rate: 2.53%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-26 09:17:18

End at: 2018-01-26 09:17:48

Below is generated by plot.py at 2018-01-26 14:49:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.96 Mbit/s

95th percentile per-packet one-way delay: 92.564 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 56.73 Mbit/s

95th percentile per-packet one-way delay: 88.167 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 25.70 Mbit/s

95th percentile per-packet one-way delay: 90.724 ms

Loss rate: 0.96%

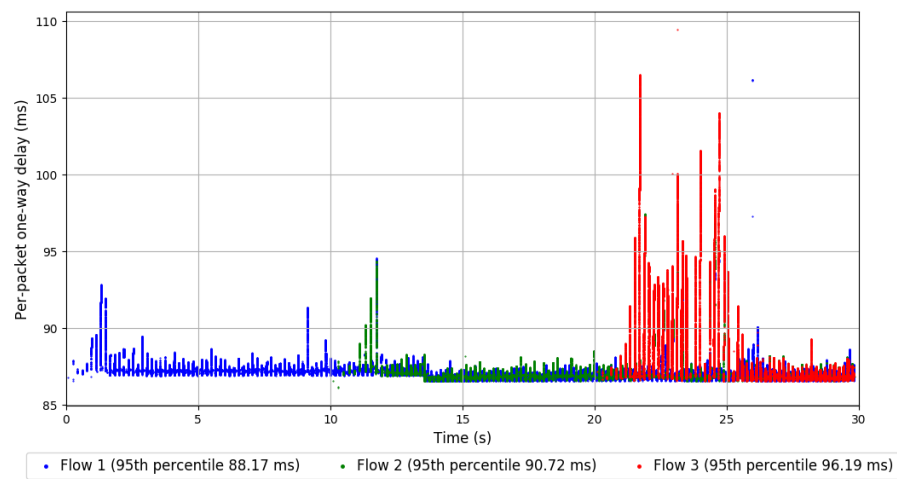
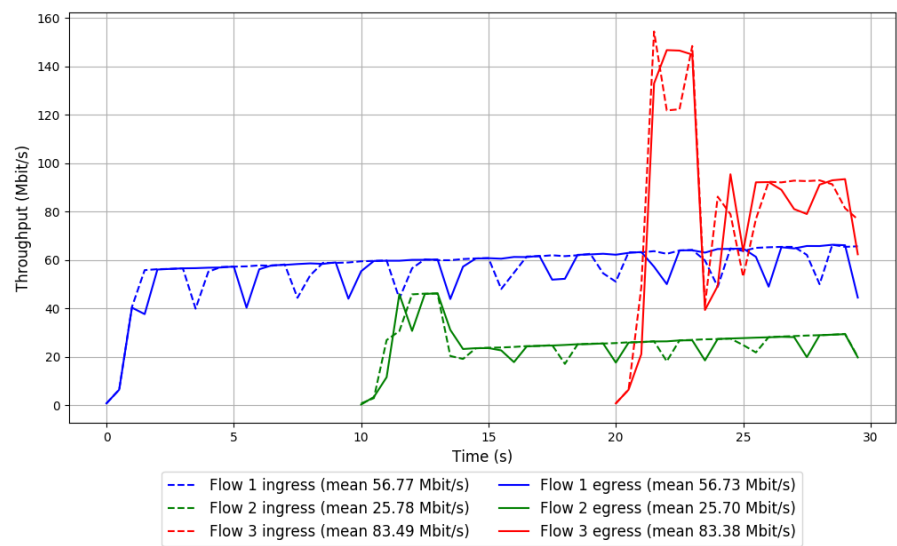
-- Flow 3:

Average throughput: 83.38 Mbit/s

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

Loss rate: 1.89%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-26 09:32:43

End at: 2018-01-26 09:33:13

Below is generated by plot.py at 2018-01-26 14:49:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.43 Mbit/s

95th percentile per-packet one-way delay: 94.844 ms

Loss rate: 1.77%

-- Flow 1:

Average throughput: 3.60 Mbit/s

95th percentile per-packet one-way delay: 114.503 ms

Loss rate: 1.39%

-- Flow 2:

Average throughput: 37.84 Mbit/s

95th percentile per-packet one-way delay: 91.680 ms

Loss rate: 1.13%

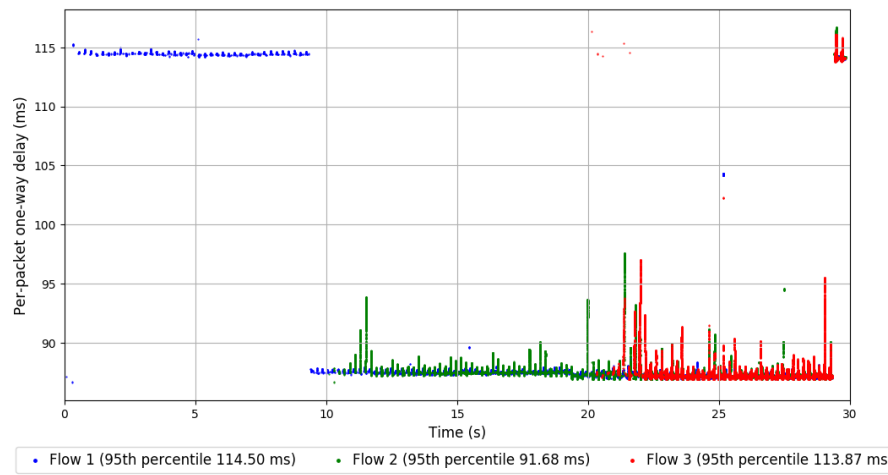
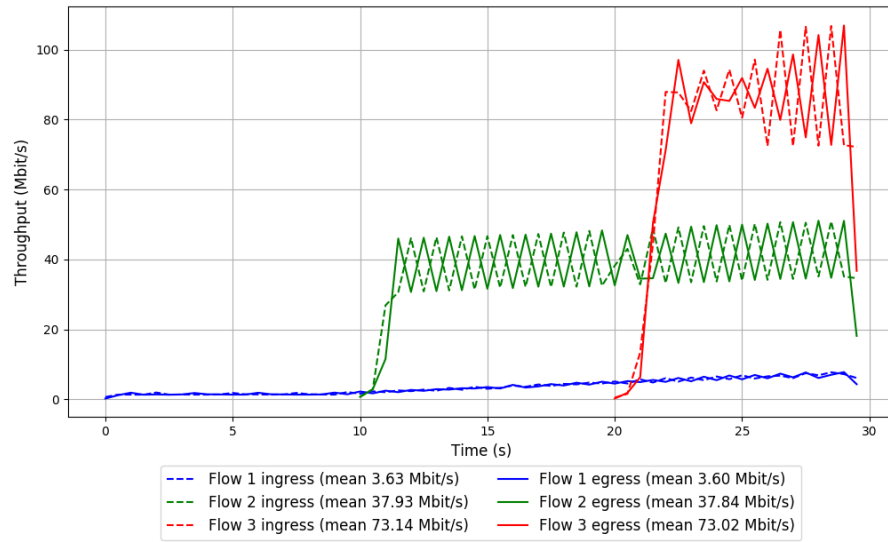
-- Flow 3:

Average throughput: 73.02 Mbit/s

95th percentile per-packet one-way delay: 113.871 ms

Loss rate: 2.49%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-26 09:47:48

End at: 2018-01-26 09:48:18

Below is generated by plot.py at 2018-01-26 14:49:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.76 Mbit/s

95th percentile per-packet one-way delay: 115.683 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 34.36 Mbit/s

95th percentile per-packet one-way delay: 115.171 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 114.630 ms

Loss rate: 1.26%

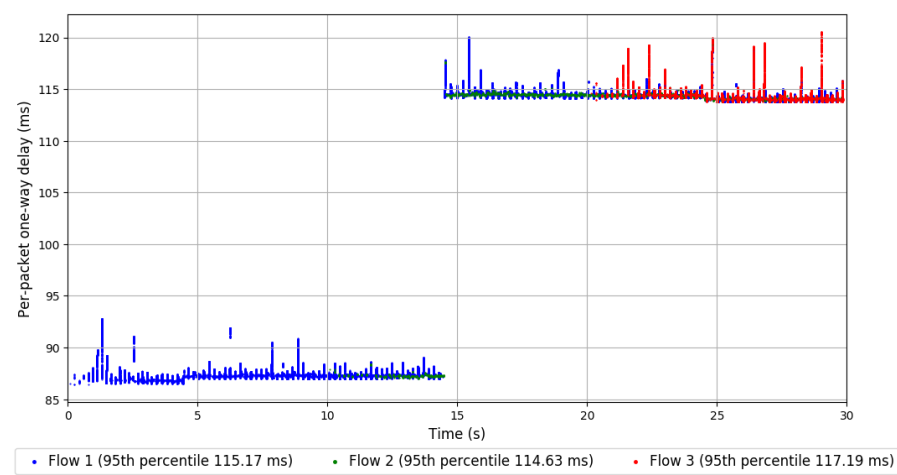
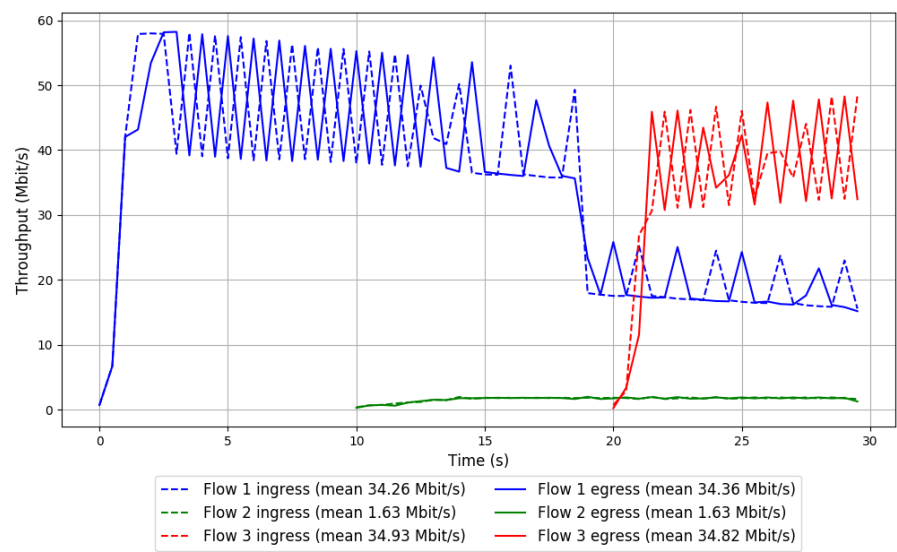
-- Flow 3:

Average throughput: 34.82 Mbit/s

95th percentile per-packet one-way delay: 117.188 ms

Loss rate: 2.34%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-26 10:02:46

End at: 2018-01-26 10:03:16

Below is generated by plot.py at 2018-01-26 14:49:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.35 Mbit/s

95th percentile per-packet one-way delay: 115.252 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 3.11 Mbit/s

95th percentile per-packet one-way delay: 114.712 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 68.99 Mbit/s

95th percentile per-packet one-way delay: 115.287 ms

Loss rate: 1.12%

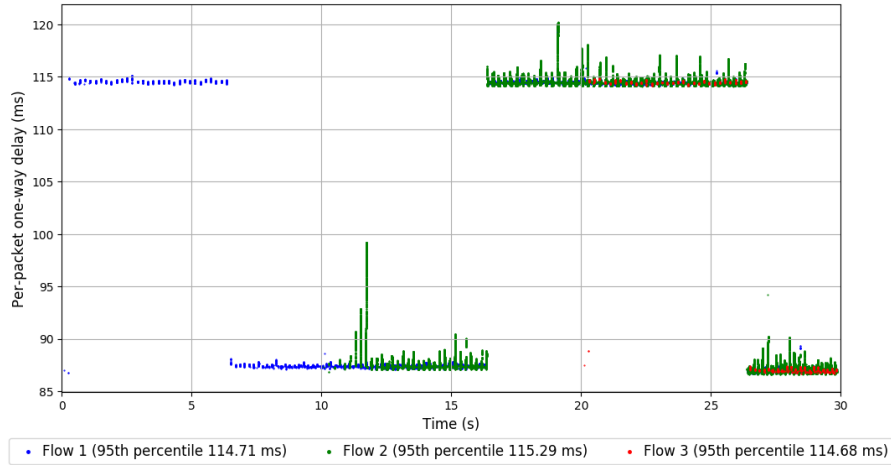
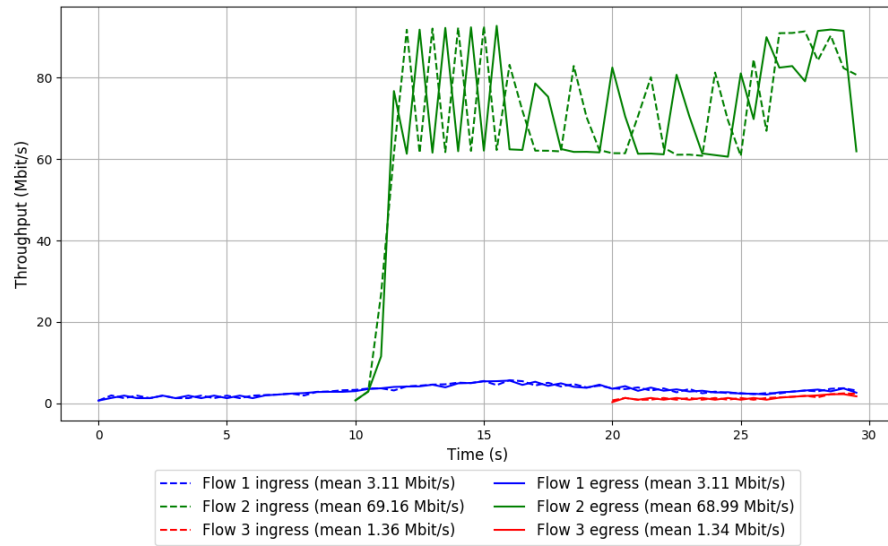
-- Flow 3:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 114.680 ms

Loss rate: 3.30%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-26 10:17:57

End at: 2018-01-26 10:18:27

Below is generated by plot.py at 2018-01-26 14:49:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.36 Mbit/s

95th percentile per-packet one-way delay: 107.256 ms

Loss rate: 1.71%

-- Flow 1:

Average throughput: 2.68 Mbit/s

95th percentile per-packet one-way delay: 114.594 ms

Loss rate: 1.54%

-- Flow 2:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 114.576 ms

Loss rate: 0.74%

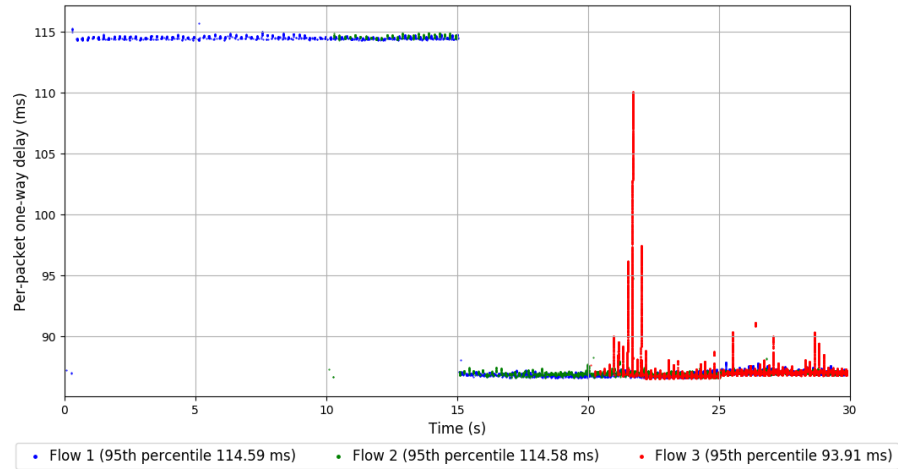
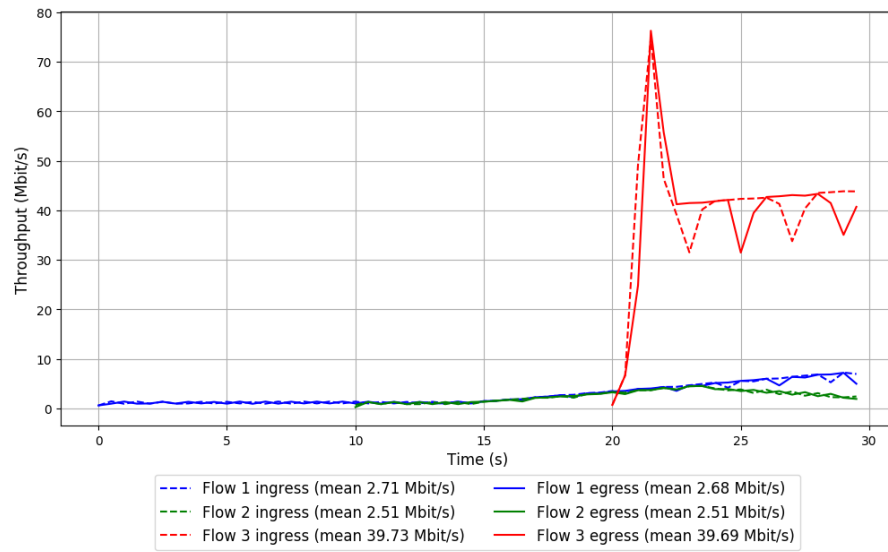
-- Flow 3:

Average throughput: 39.69 Mbit/s

95th percentile per-packet one-way delay: 93.912 ms

Loss rate: 1.86%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-26 10:32:41

End at: 2018-01-26 10:33:11

Below is generated by plot.py at 2018-01-26 14:49:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 175.10 Mbit/s

95th percentile per-packet one-way delay: 100.658 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 119.73 Mbit/s

95th percentile per-packet one-way delay: 99.173 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 47.02 Mbit/s

95th percentile per-packet one-way delay: 104.050 ms

Loss rate: 0.41%

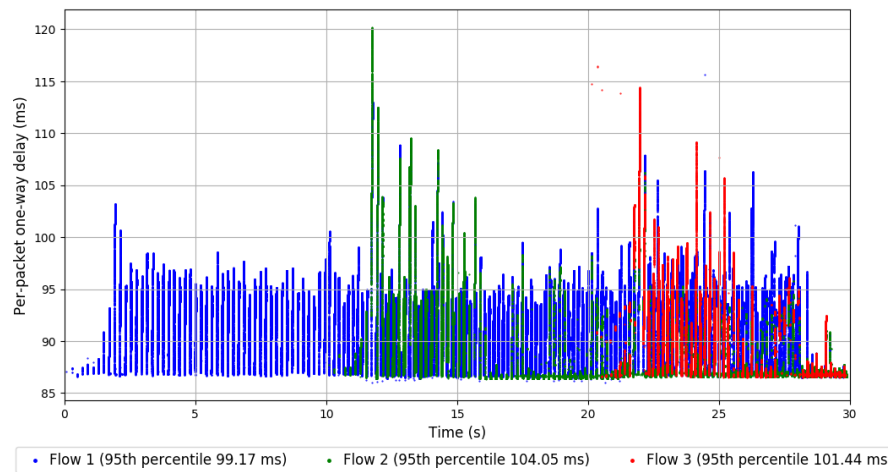
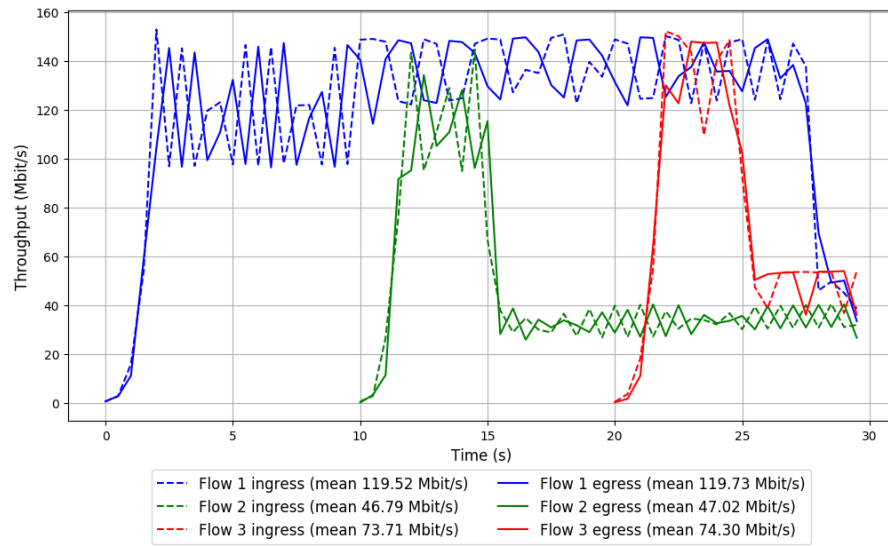
-- Flow 3:

Average throughput: 74.30 Mbit/s

95th percentile per-packet one-way delay: 101.437 ms

Loss rate: 1.25%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-26 10:48:21

End at: 2018-01-26 10:48:51

Below is generated by plot.py at 2018-01-26 14:49:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.59 Mbit/s

95th percentile per-packet one-way delay: 94.006 ms

Loss rate: 1.70%

-- Flow 1:

Average throughput: 4.97 Mbit/s

95th percentile per-packet one-way delay: 91.406 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 26.81 Mbit/s

95th percentile per-packet one-way delay: 91.298 ms

Loss rate: 1.08%

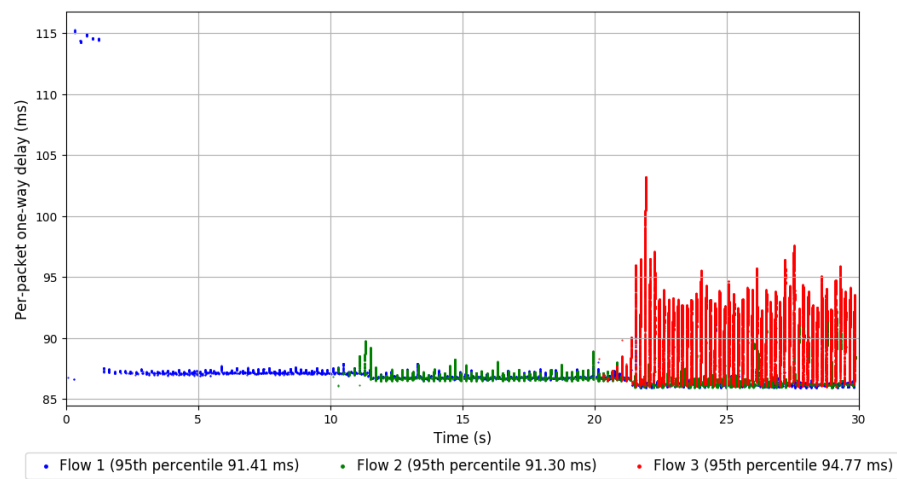
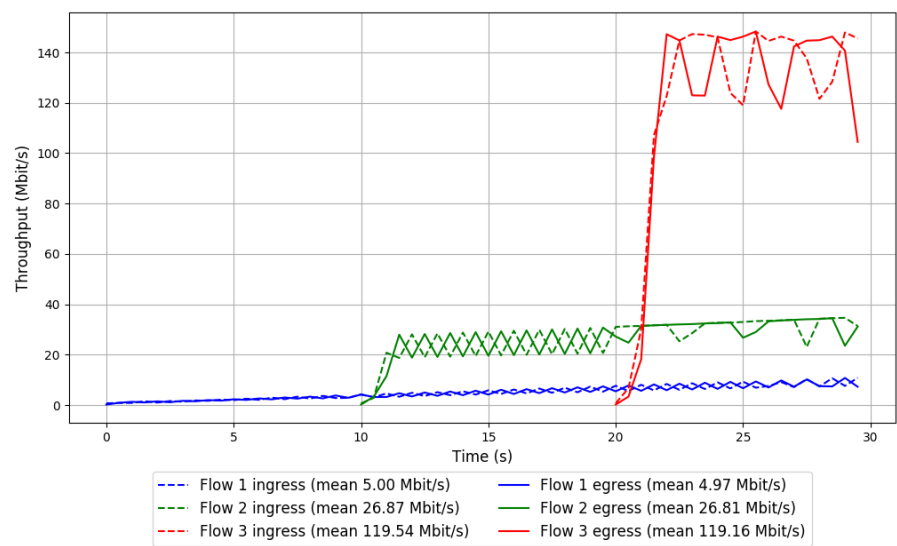
-- Flow 3:

Average throughput: 119.16 Mbit/s

95th percentile per-packet one-way delay: 94.769 ms

Loss rate: 2.05%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-26 11:03:45

End at: 2018-01-26 11:04:15

Below is generated by plot.py at 2018-01-26 14:49:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 156.55 Mbit/s

95th percentile per-packet one-way delay: 92.251 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 87.16 Mbit/s

95th percentile per-packet one-way delay: 89.368 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 72.97 Mbit/s

95th percentile per-packet one-way delay: 90.896 ms

Loss rate: 0.65%

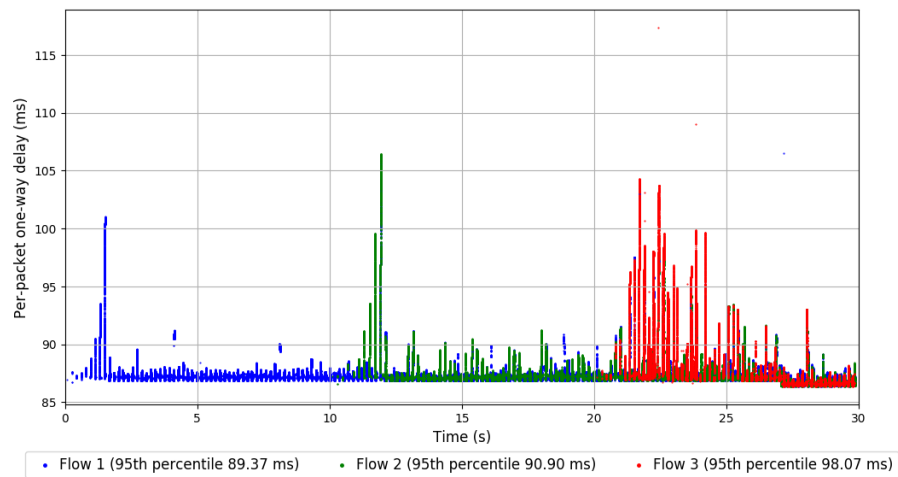
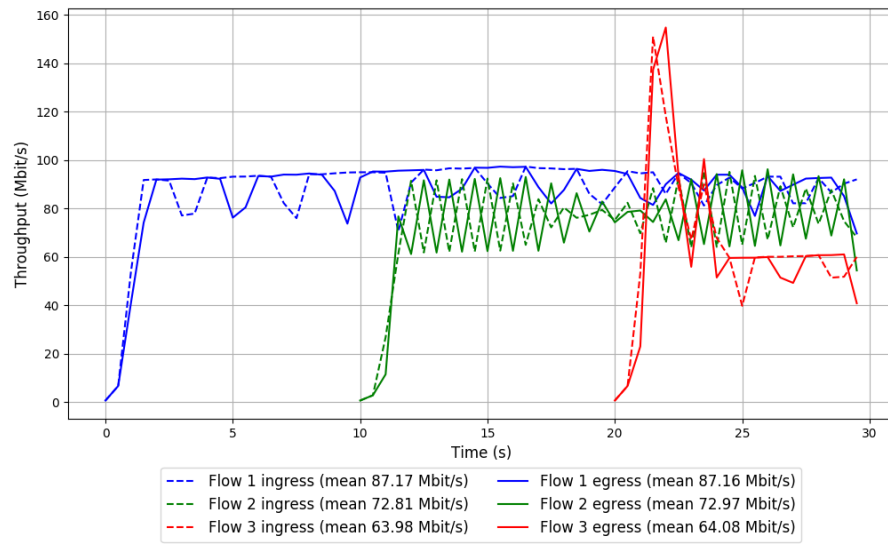
-- Flow 3:

Average throughput: 64.08 Mbit/s

95th percentile per-packet one-way delay: 98.074 ms

Loss rate: 1.62%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-26 11:19:12

End at: 2018-01-26 11:19:42

Below is generated by plot.py at 2018-01-26 14:49:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.53 Mbit/s

95th percentile per-packet one-way delay: 114.732 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 28.07 Mbit/s

95th percentile per-packet one-way delay: 114.877 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 114.473 ms

Loss rate: 2.13%

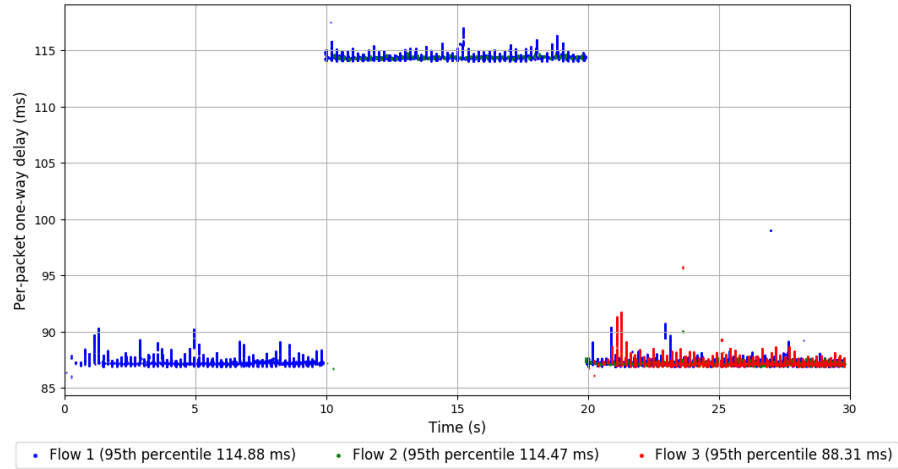
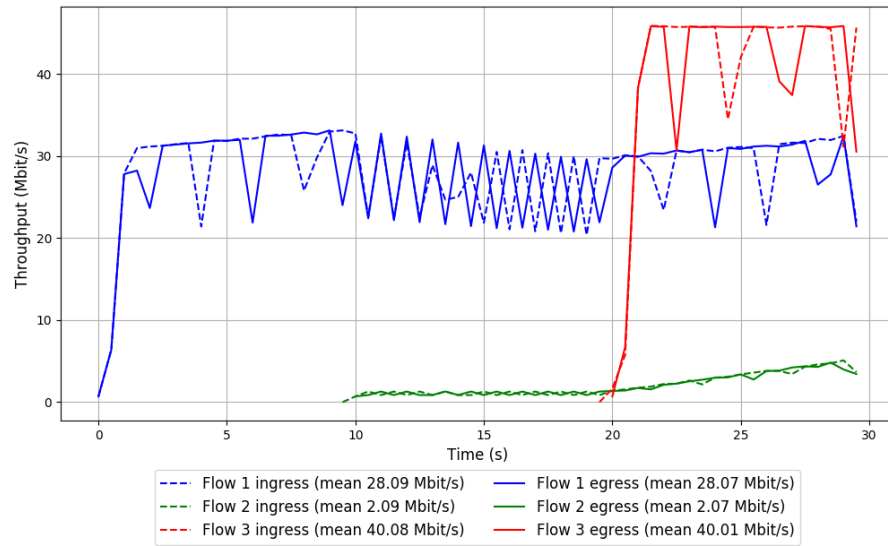
-- Flow 3:

Average throughput: 40.01 Mbit/s

95th percentile per-packet one-way delay: 88.309 ms

Loss rate: 1.92%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-26 11:34:57

End at: 2018-01-26 11:35:27

Below is generated by plot.py at 2018-01-26 14:49:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.80 Mbit/s

95th percentile per-packet one-way delay: 93.371 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 42.01 Mbit/s

95th percentile per-packet one-way delay: 93.110 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 41.10 Mbit/s

95th percentile per-packet one-way delay: 90.950 ms

Loss rate: 0.94%

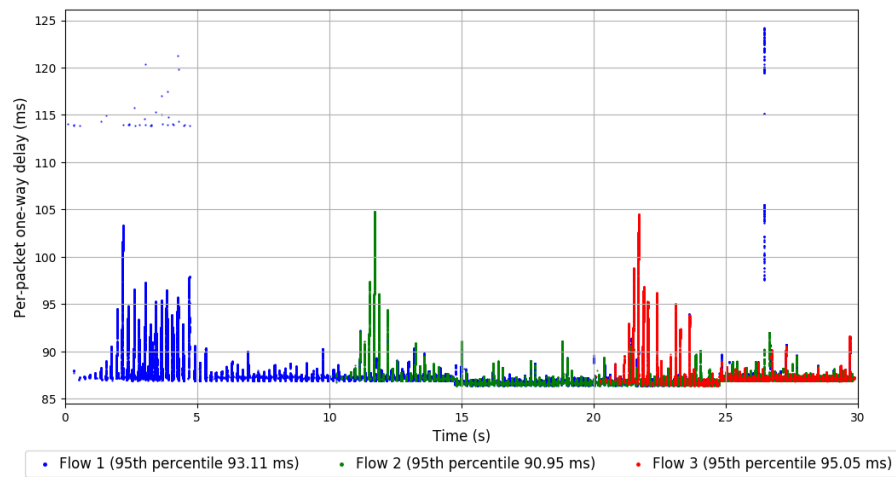
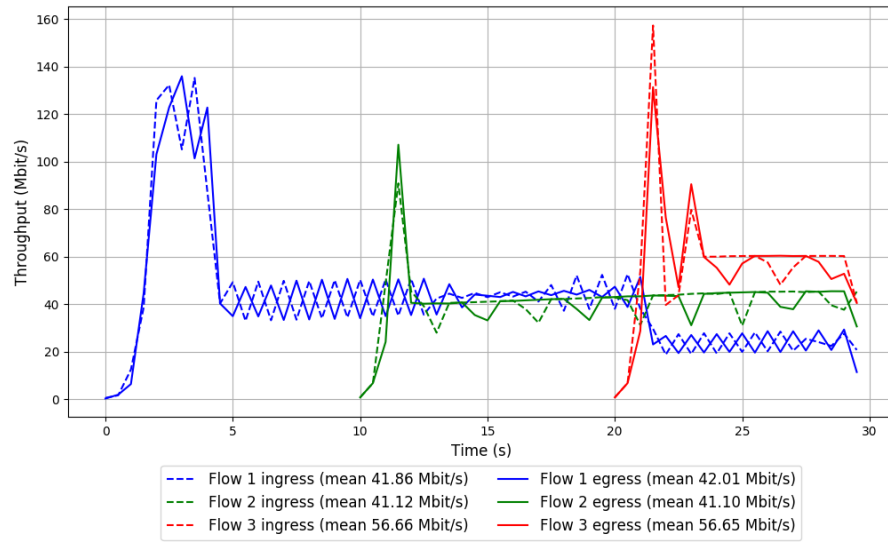
-- Flow 3:

Average throughput: 56.65 Mbit/s

95th percentile per-packet one-way delay: 95.049 ms

Loss rate: 1.78%

Run 10: Report of TCP Vegas — Data Link

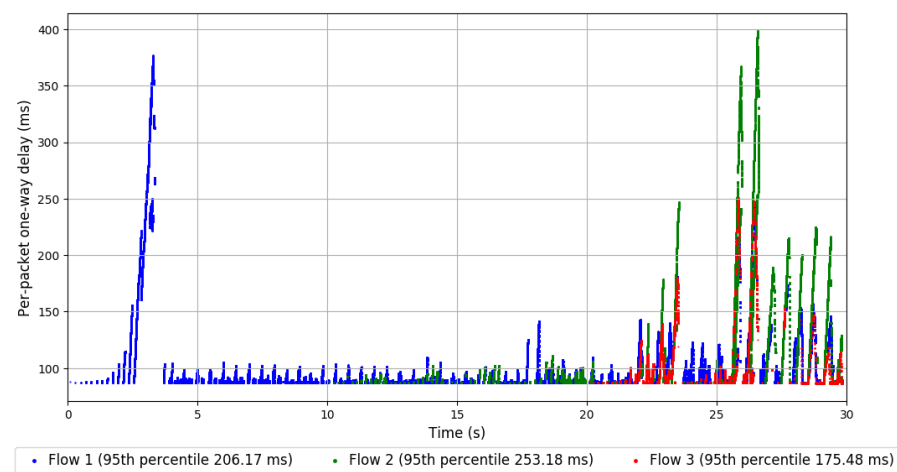
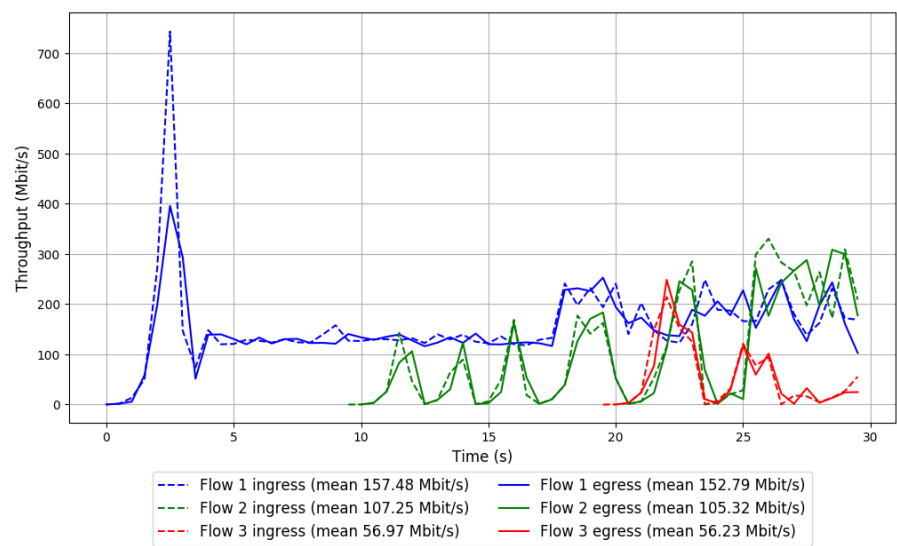


```
Run 1: Statistics of Verus

Start at: 2018-01-26 09:12:14
End at: 2018-01-26 09:12:44

# Below is generated by plot.py at 2018-01-26 14:49:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 240.65 Mbit/s
95th percentile per-packet one-way delay: 227.942 ms
Loss rate: 3.59%
-- Flow 1:
Average throughput: 152.79 Mbit/s
95th percentile per-packet one-way delay: 206.166 ms
Loss rate: 3.96%
-- Flow 2:
Average throughput: 105.32 Mbit/s
95th percentile per-packet one-way delay: 253.181 ms
Loss rate: 2.85%
-- Flow 3:
Average throughput: 56.23 Mbit/s
95th percentile per-packet one-way delay: 175.483 ms
Loss rate: 3.32%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-26 09:27:34

End at: 2018-01-26 09:28:04

Below is generated by plot.py at 2018-01-26 14:49:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 387.60 Mbit/s

95th percentile per-packet one-way delay: 188.375 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 232.72 Mbit/s

95th percentile per-packet one-way delay: 175.374 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 216.44 Mbit/s

95th percentile per-packet one-way delay: 214.107 ms

Loss rate: 1.38%

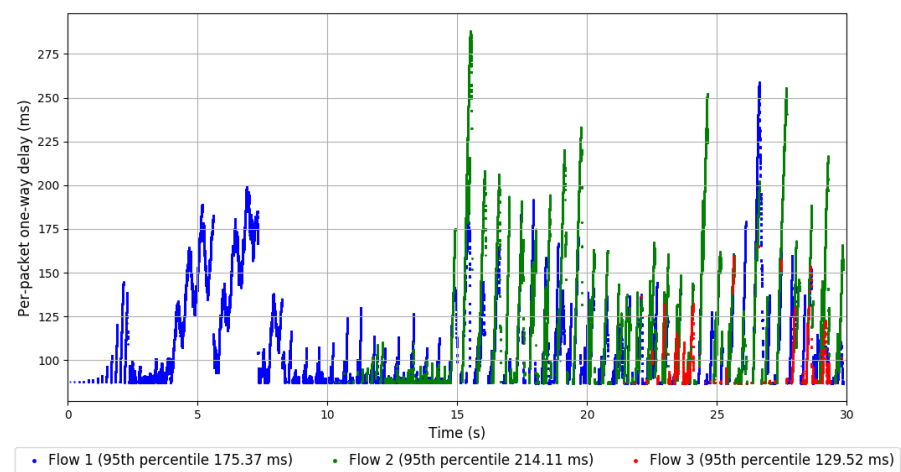
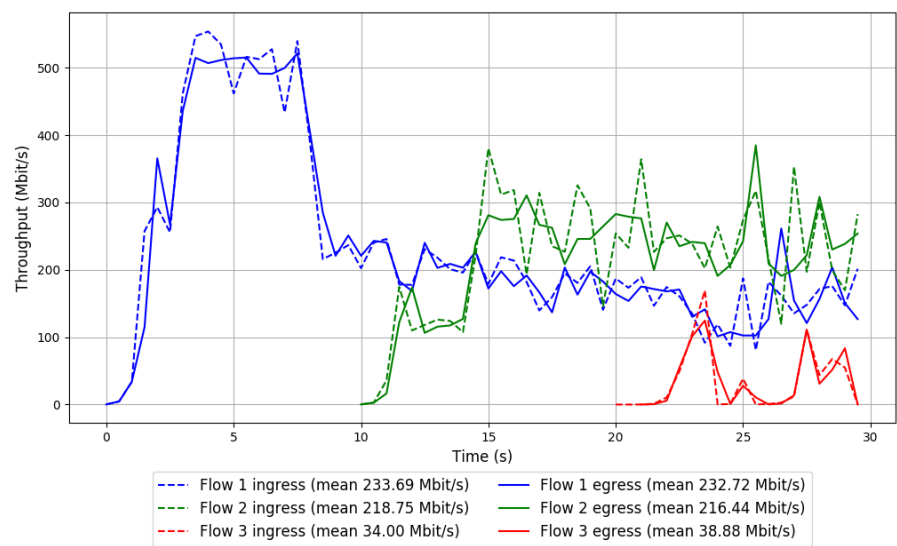
-- Flow 3:

Average throughput: 38.88 Mbit/s

95th percentile per-packet one-way delay: 129.524 ms

Loss rate: 0.04%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-26 09:42:57

End at: 2018-01-26 09:43:27

Below is generated by plot.py at 2018-01-26 14:49:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 273.20 Mbit/s

95th percentile per-packet one-way delay: 143.321 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 208.35 Mbit/s

95th percentile per-packet one-way delay: 145.800 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 75.04 Mbit/s

95th percentile per-packet one-way delay: 136.473 ms

Loss rate: 0.00%

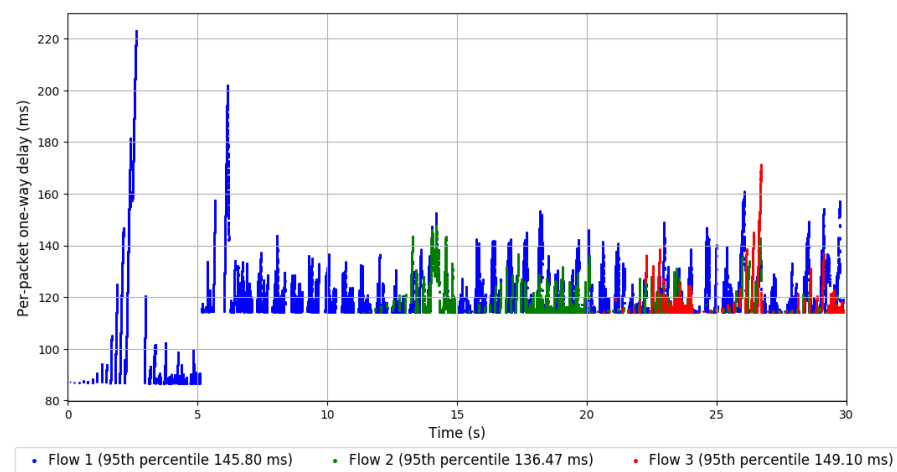
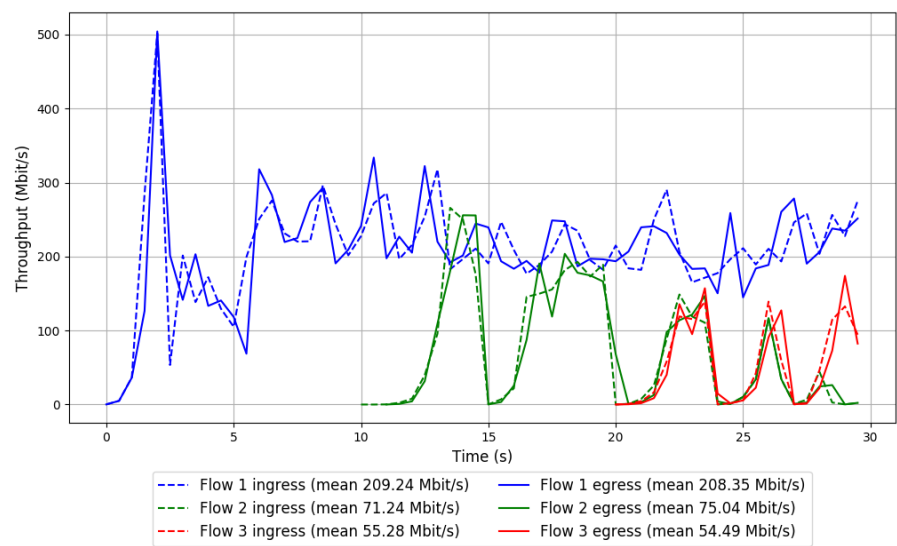
-- Flow 3:

Average throughput: 54.49 Mbit/s

95th percentile per-packet one-way delay: 149.104 ms

Loss rate: 3.37%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-26 09:58:05

End at: 2018-01-26 09:58:35

Below is generated by plot.py at 2018-01-26 14:49:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 298.08 Mbit/s

95th percentile per-packet one-way delay: 227.396 ms

Loss rate: 3.98%

-- Flow 1:

Average throughput: 200.97 Mbit/s

95th percentile per-packet one-way delay: 263.706 ms

Loss rate: 5.77%

-- Flow 2:

Average throughput: 134.44 Mbit/s

95th percentile per-packet one-way delay: 146.342 ms

Loss rate: 0.01%

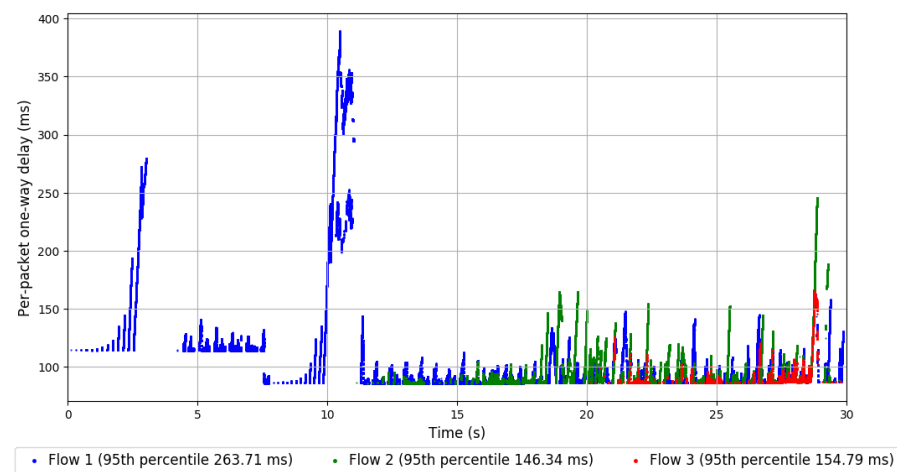
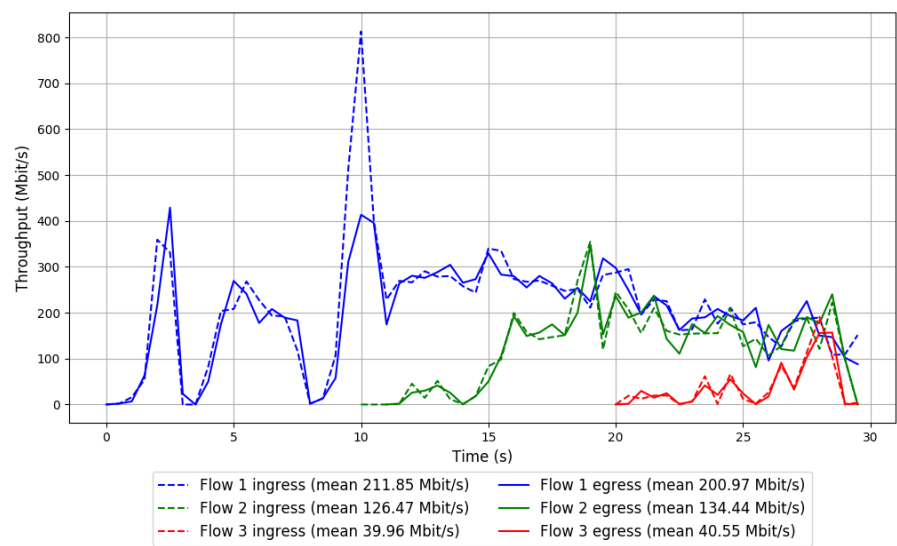
-- Flow 3:

Average throughput: 40.55 Mbit/s

95th percentile per-packet one-way delay: 154.792 ms

Loss rate: 0.33%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-26 10:12:56

End at: 2018-01-26 10:13:26

Below is generated by plot.py at 2018-01-26 14:49:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 229.89 Mbit/s

95th percentile per-packet one-way delay: 157.401 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 117.68 Mbit/s

95th percentile per-packet one-way delay: 177.542 ms

Loss rate: 3.19%

-- Flow 2:

Average throughput: 104.70 Mbit/s

95th percentile per-packet one-way delay: 142.352 ms

Loss rate: 0.01%

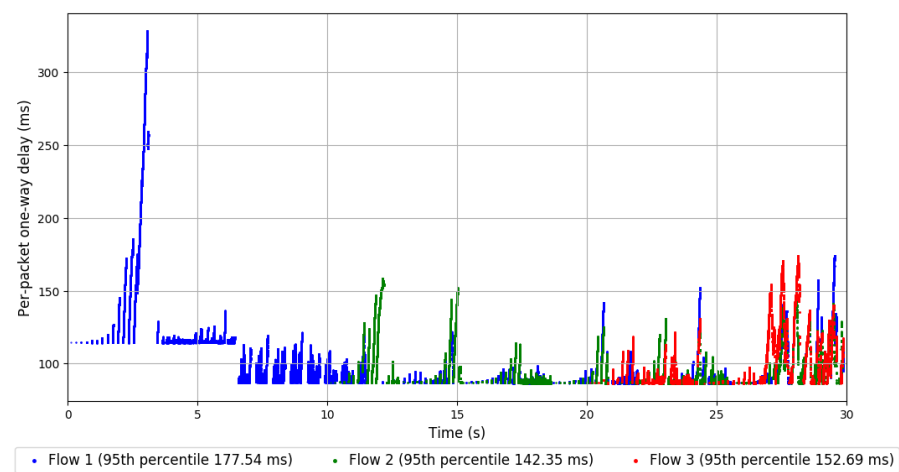
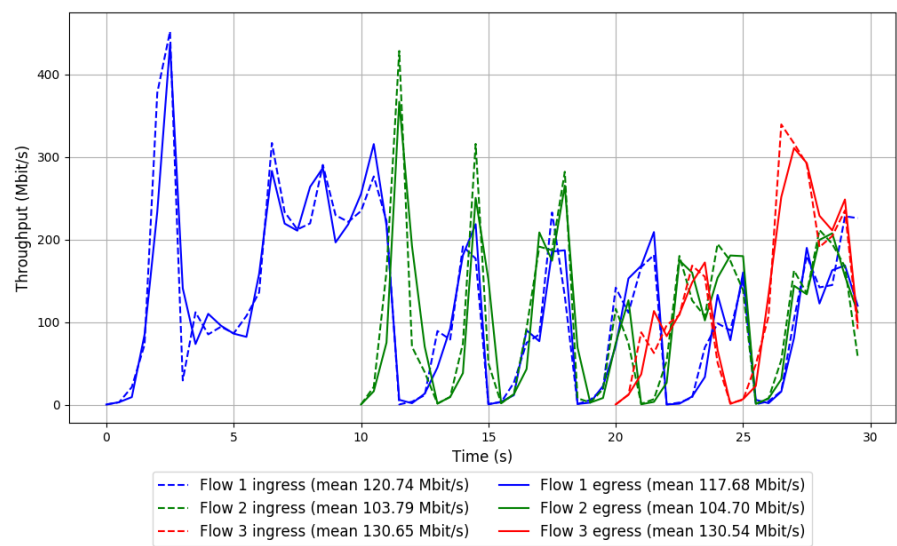
-- Flow 3:

Average throughput: 130.54 Mbit/s

95th percentile per-packet one-way delay: 152.685 ms

Loss rate: 1.02%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-26 10:28:08

End at: 2018-01-26 10:28:38

Below is generated by plot.py at 2018-01-26 14:50:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 338.99 Mbit/s

95th percentile per-packet one-way delay: 150.747 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 229.51 Mbit/s

95th percentile per-packet one-way delay: 149.247 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 92.25 Mbit/s

95th percentile per-packet one-way delay: 142.936 ms

Loss rate: 0.15%

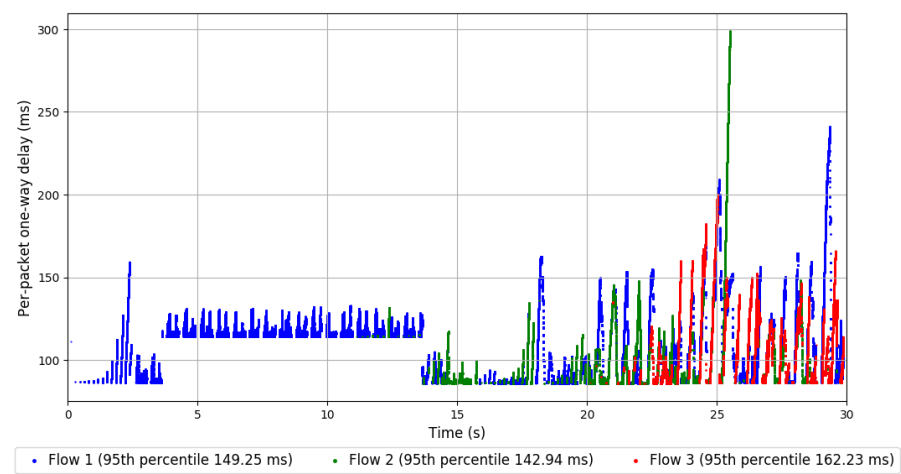
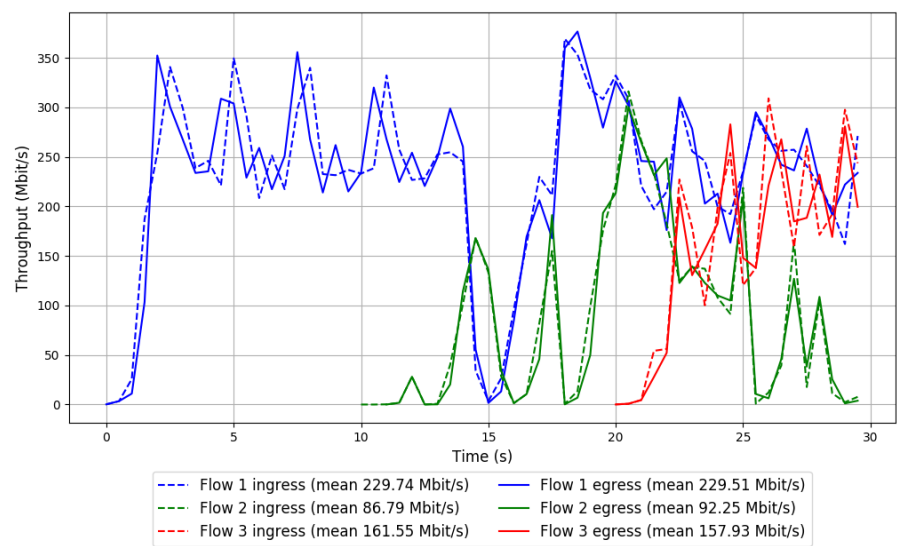
-- Flow 3:

Average throughput: 157.93 Mbit/s

95th percentile per-packet one-way delay: 162.231 ms

Loss rate: 3.94%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-26 10:43:20

End at: 2018-01-26 10:43:50

Below is generated by plot.py at 2018-01-26 14:50:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 239.14 Mbit/s

95th percentile per-packet one-way delay: 211.588 ms

Loss rate: 2.92%

-- Flow 1:

Average throughput: 128.37 Mbit/s

95th percentile per-packet one-way delay: 236.431 ms

Loss rate: 2.42%

-- Flow 2:

Average throughput: 151.15 Mbit/s

95th percentile per-packet one-way delay: 144.904 ms

Loss rate: 2.95%

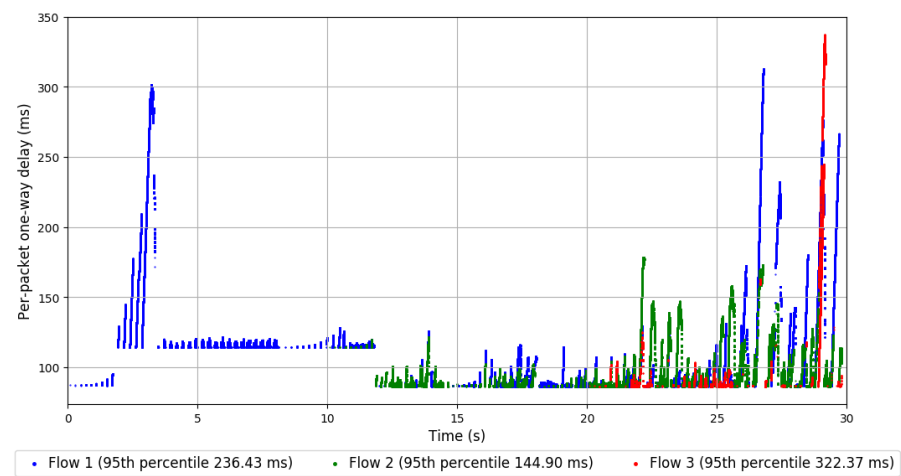
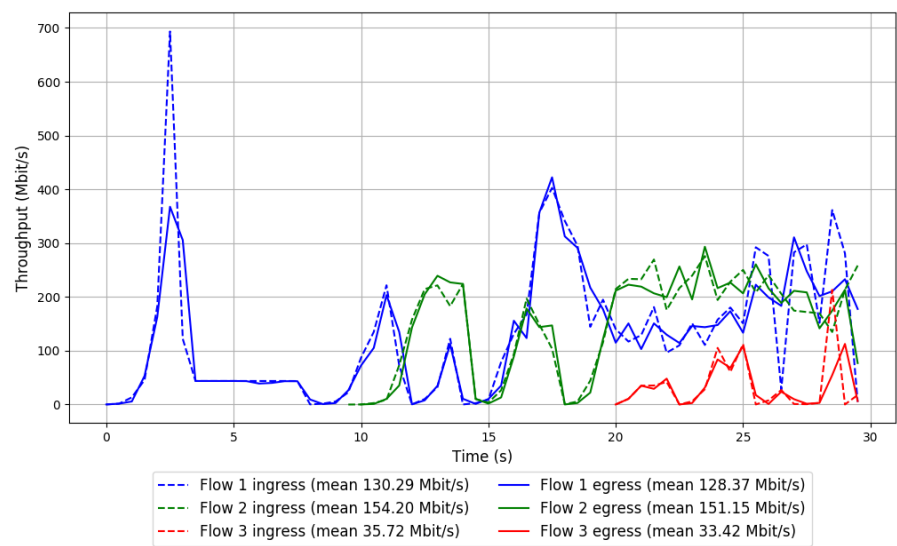
-- Flow 3:

Average throughput: 33.42 Mbit/s

95th percentile per-packet one-way delay: 322.370 ms

Loss rate: 8.10%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-26 10:58:40

End at: 2018-01-26 10:59:10

Below is generated by plot.py at 2018-01-26 14:51:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 277.91 Mbit/s

95th percentile per-packet one-way delay: 173.107 ms

Loss rate: 2.16%

-- Flow 1:

Average throughput: 166.07 Mbit/s

95th percentile per-packet one-way delay: 186.171 ms

Loss rate: 1.83%

-- Flow 2:

Average throughput: 102.60 Mbit/s

95th percentile per-packet one-way delay: 141.010 ms

Loss rate: 2.59%

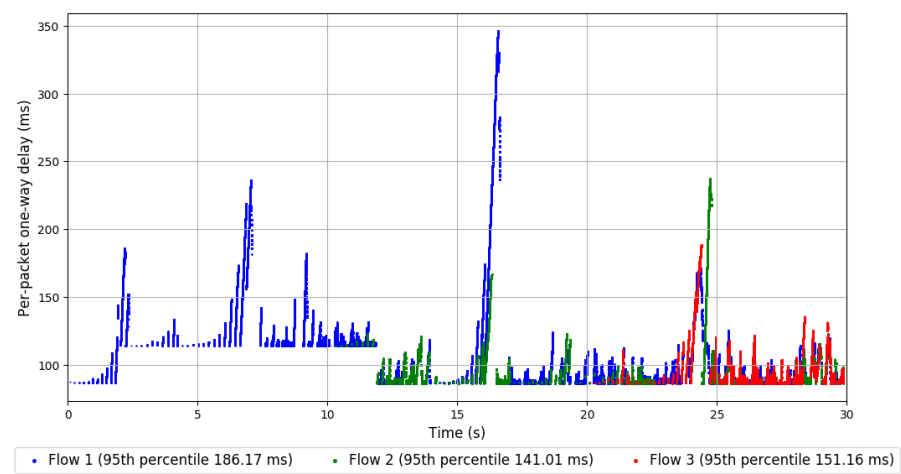
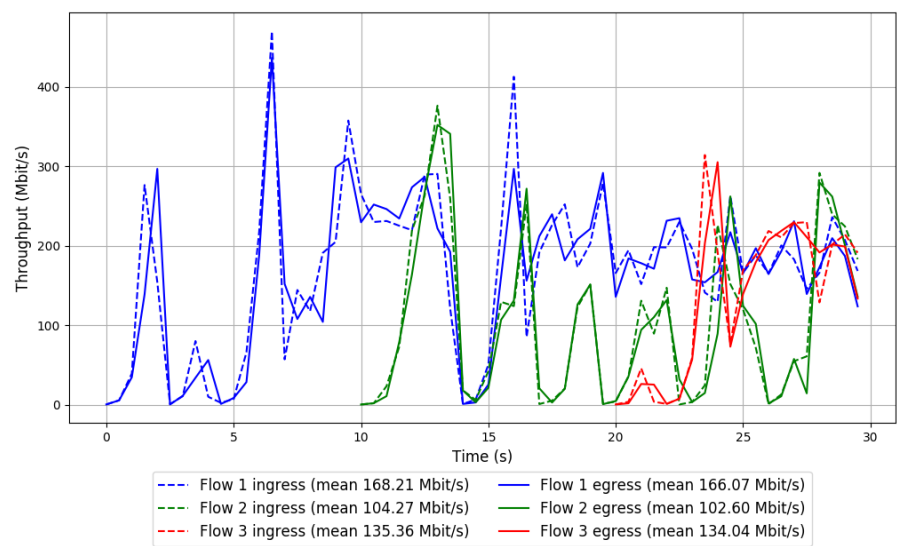
-- Flow 3:

Average throughput: 134.04 Mbit/s

95th percentile per-packet one-way delay: 151.165 ms

Loss rate: 2.73%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-26 11:14:05

End at: 2018-01-26 11:14:35

Below is generated by plot.py at 2018-01-26 14:53:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 286.25 Mbit/s

95th percentile per-packet one-way delay: 175.069 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 157.50 Mbit/s

95th percentile per-packet one-way delay: 153.053 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 161.70 Mbit/s

95th percentile per-packet one-way delay: 183.253 ms

Loss rate: 2.34%

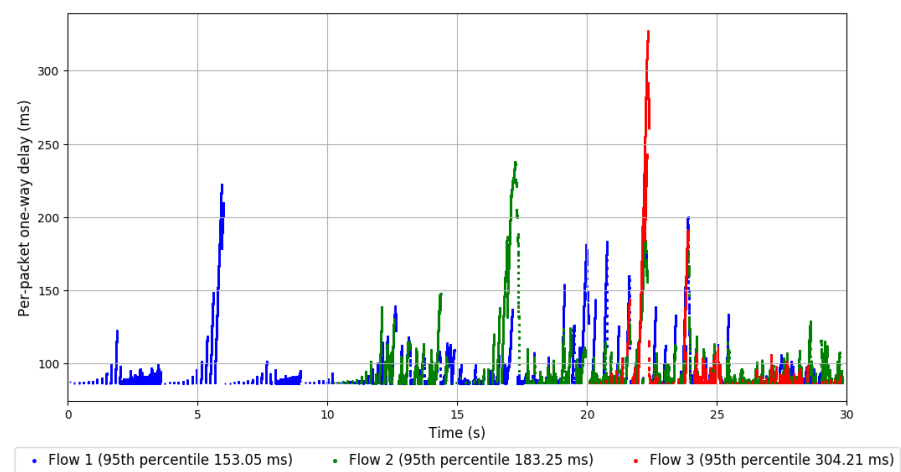
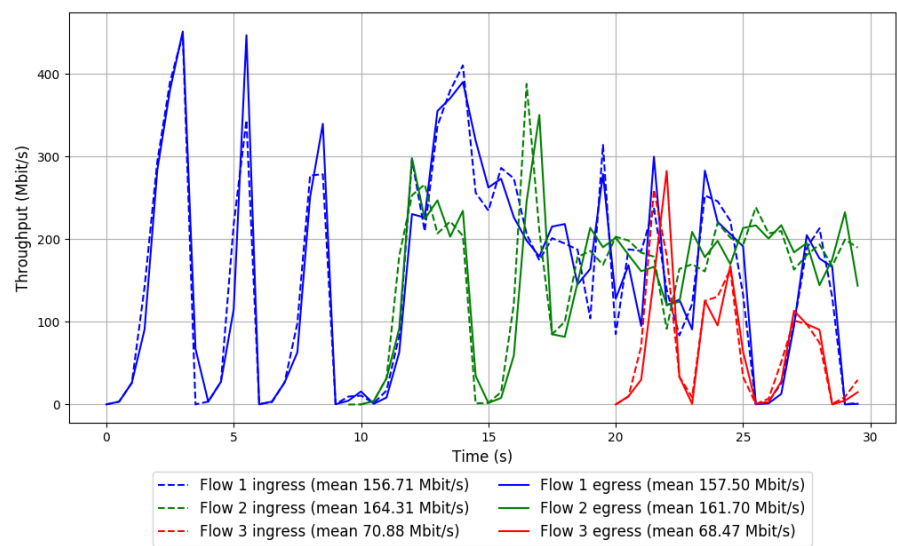
-- Flow 3:

Average throughput: 68.47 Mbit/s

95th percentile per-packet one-way delay: 304.215 ms

Loss rate: 5.20%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-26 11:29:46

End at: 2018-01-26 11:30:16

Below is generated by plot.py at 2018-01-26 14:54:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.77 Mbit/s

95th percentile per-packet one-way delay: 242.505 ms

Loss rate: 4.88%

-- Flow 1:

Average throughput: 208.76 Mbit/s

95th percentile per-packet one-way delay: 133.279 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 97.85 Mbit/s

95th percentile per-packet one-way delay: 241.697 ms

Loss rate: 8.61%

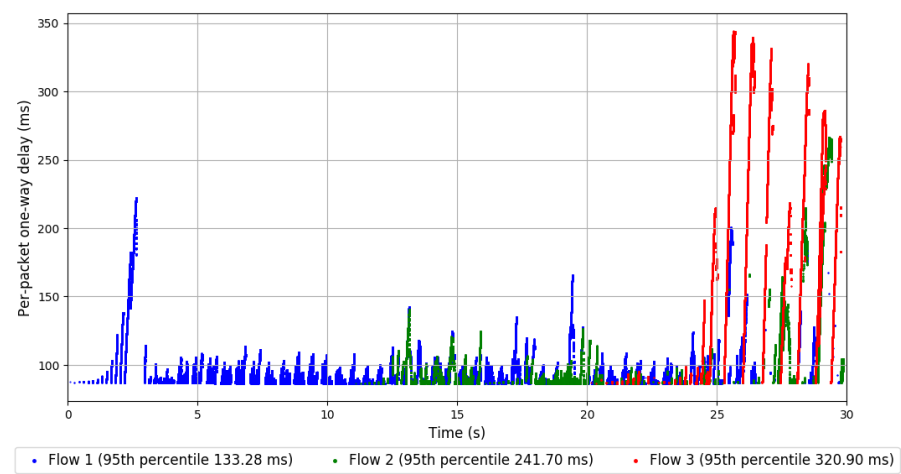
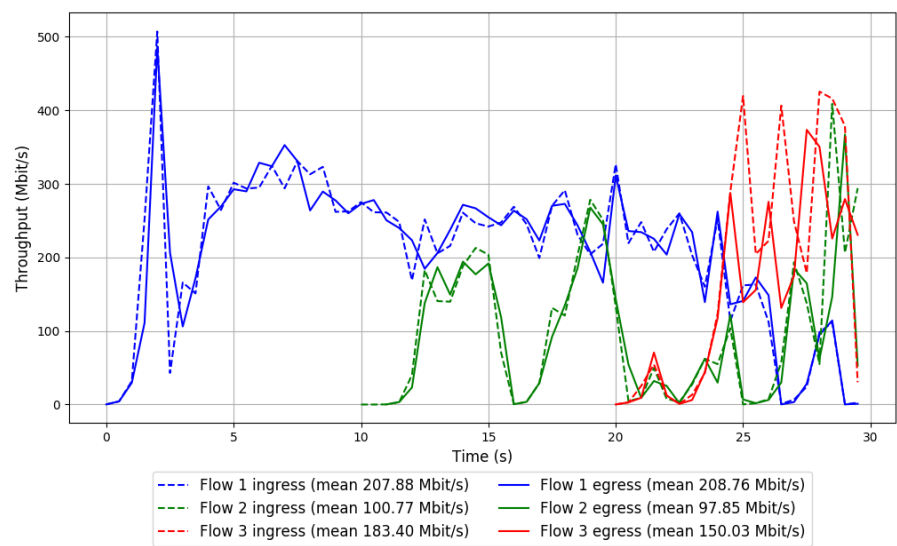
-- Flow 3:

Average throughput: 150.03 Mbit/s

95th percentile per-packet one-way delay: 320.896 ms

Loss rate: 17.37%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-26 09:18:08

End at: 2018-01-26 09:18:38

Below is generated by plot.py at 2018-01-26 14:54:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 126.61 Mbit/s

95th percentile per-packet one-way delay: 87.083 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 82.58 Mbit/s

95th percentile per-packet one-way delay: 87.062 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 65.19 Mbit/s

95th percentile per-packet one-way delay: 87.088 ms

Loss rate: 1.21%

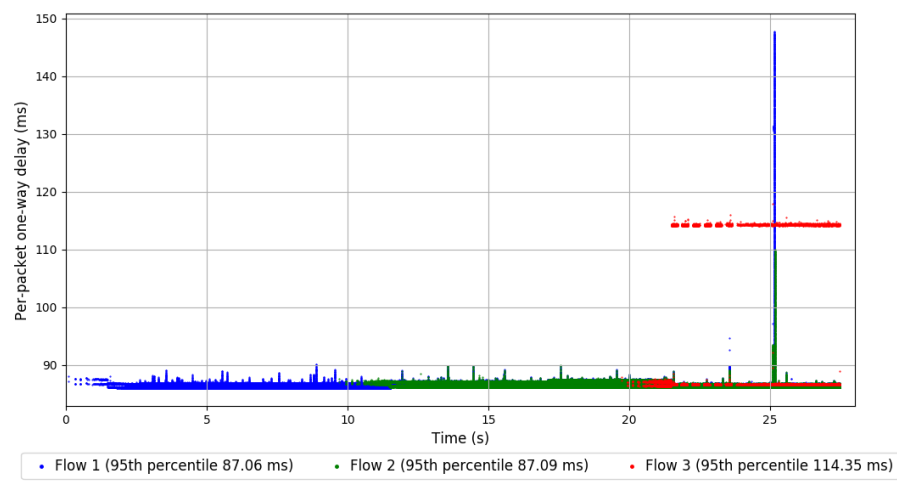
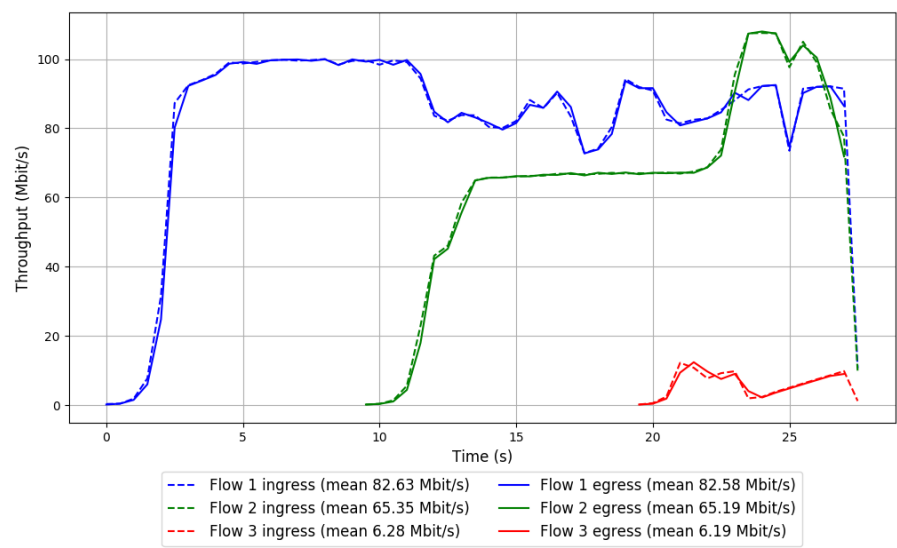
-- Flow 3:

Average throughput: 6.19 Mbit/s

95th percentile per-packet one-way delay: 114.351 ms

Loss rate: 3.64%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-26 09:33:30

End at: 2018-01-26 09:34:00

Below is generated by plot.py at 2018-01-26 14:54:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.77 Mbit/s

95th percentile per-packet one-way delay: 87.002 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 77.05 Mbit/s

95th percentile per-packet one-way delay: 86.817 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 72.29 Mbit/s

95th percentile per-packet one-way delay: 87.062 ms

Loss rate: 0.84%

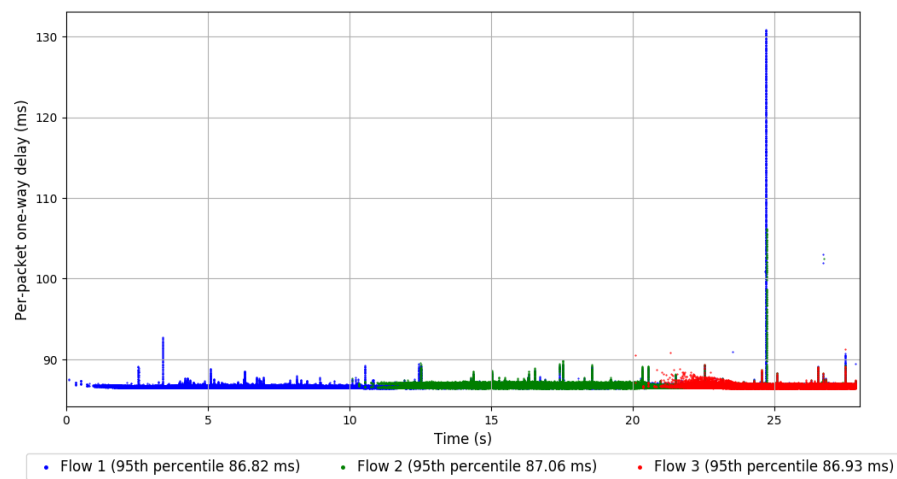
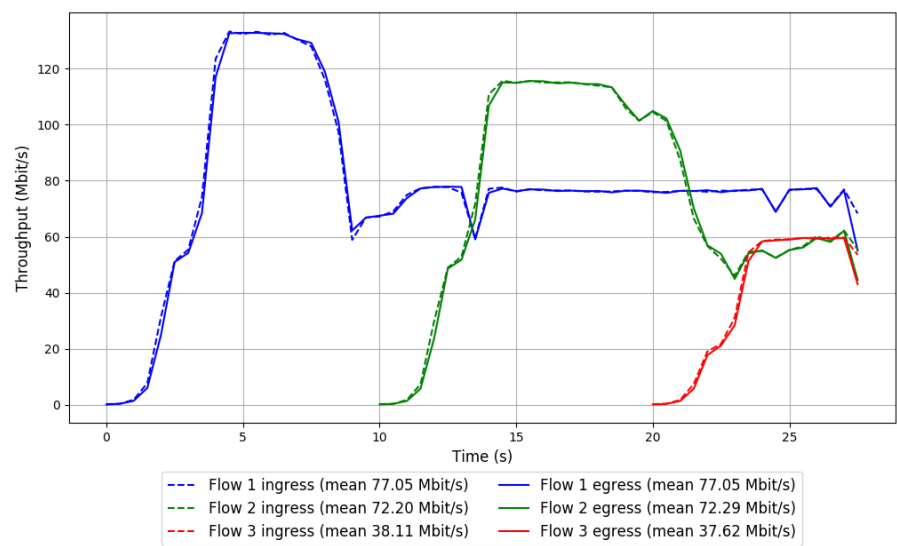
-- Flow 3:

Average throughput: 37.62 Mbit/s

95th percentile per-packet one-way delay: 86.927 ms

Loss rate: 3.47%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-26 09:48:35

End at: 2018-01-26 09:49:05

Below is generated by plot.py at 2018-01-26 14:54:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 131.84 Mbit/s

95th percentile per-packet one-way delay: 87.080 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 67.51 Mbit/s

95th percentile per-packet one-way delay: 87.145 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 66.97 Mbit/s

95th percentile per-packet one-way delay: 87.017 ms

Loss rate: 0.74%

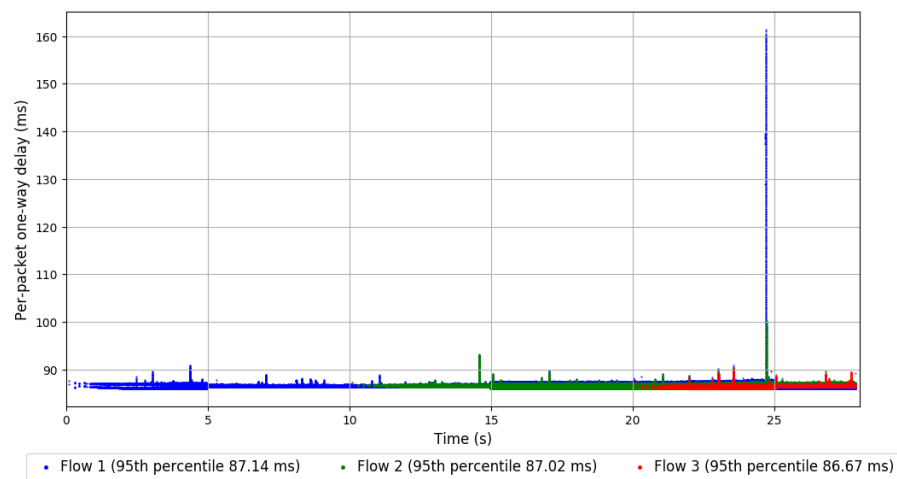
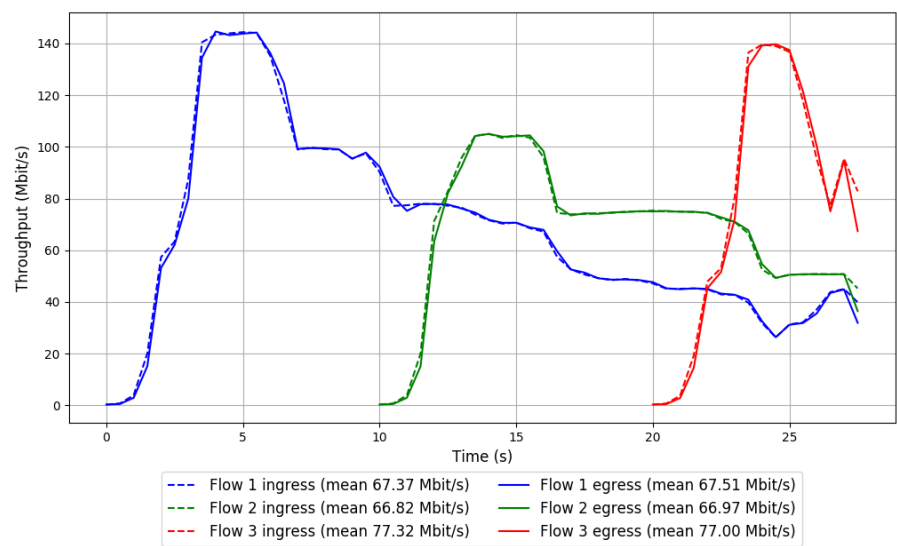
-- Flow 3:

Average throughput: 77.00 Mbit/s

95th percentile per-packet one-way delay: 86.669 ms

Loss rate: 2.60%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-26 10:03:33

End at: 2018-01-26 10:04:03

Below is generated by plot.py at 2018-01-26 14:54:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.09 Mbit/s

95th percentile per-packet one-way delay: 114.272 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 9.71 Mbit/s

95th percentile per-packet one-way delay: 114.270 ms

Loss rate: 2.57%

-- Flow 2:

Average throughput: 82.58 Mbit/s

95th percentile per-packet one-way delay: 114.272 ms

Loss rate: 1.00%

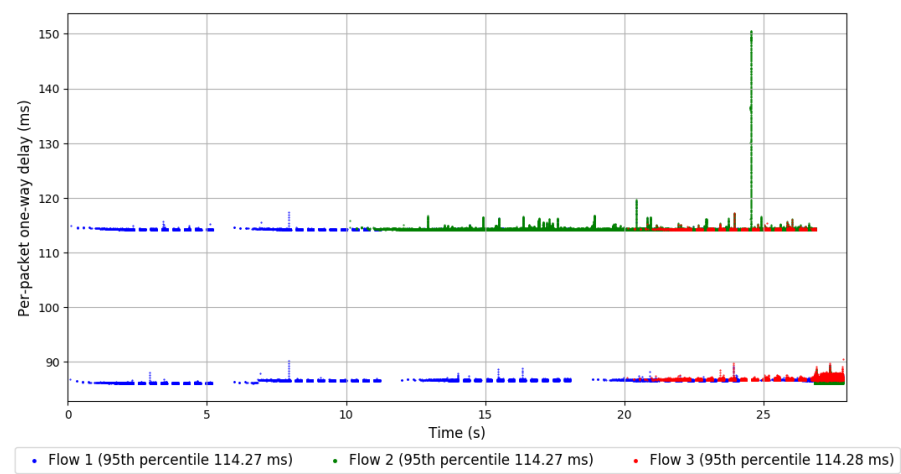
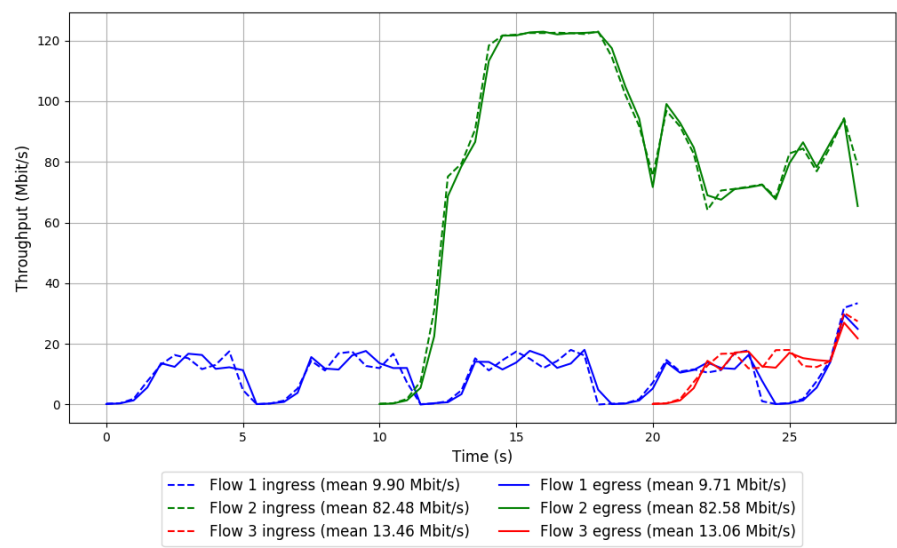
-- Flow 3:

Average throughput: 13.06 Mbit/s

95th percentile per-packet one-way delay: 114.278 ms

Loss rate: 5.05%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-26 10:18:42

End at: 2018-01-26 10:19:12

Below is generated by plot.py at 2018-01-26 14:55:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.23 Mbit/s

95th percentile per-packet one-way delay: 87.151 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 82.46 Mbit/s

95th percentile per-packet one-way delay: 86.846 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 67.18 Mbit/s

95th percentile per-packet one-way delay: 87.215 ms

Loss rate: 1.07%

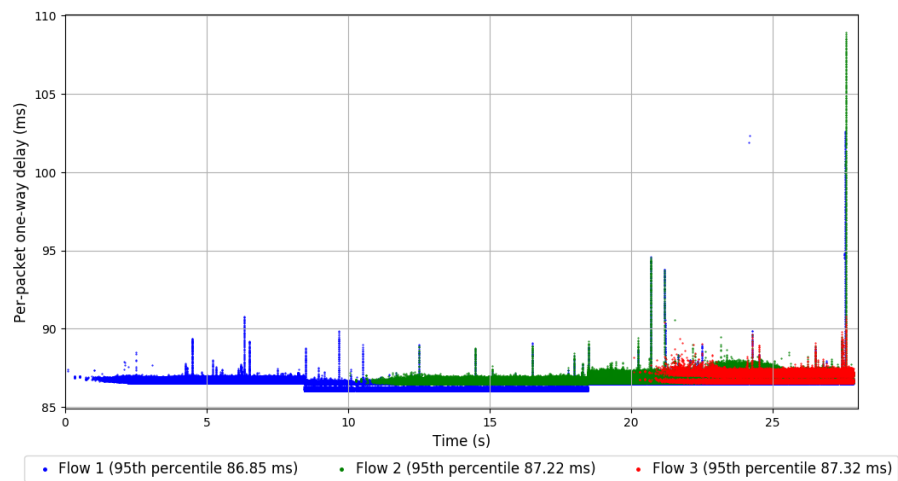
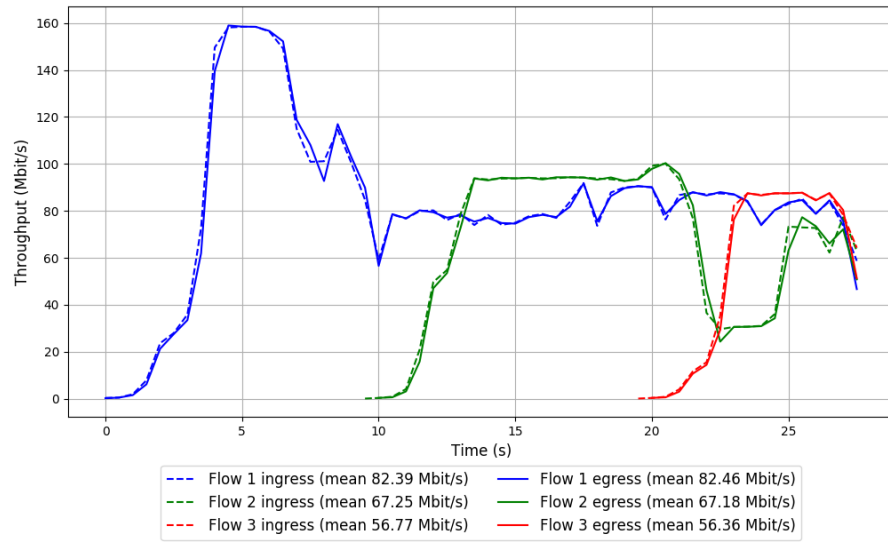
-- Flow 3:

Average throughput: 56.36 Mbit/s

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

Loss rate: 2.89%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-26 10:33:36

End at: 2018-01-26 10:34:06

Below is generated by plot.py at 2018-01-26 14:55:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 131.14 Mbit/s

95th percentile per-packet one-way delay: 87.219 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 65.54 Mbit/s

95th percentile per-packet one-way delay: 87.184 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 73.82 Mbit/s

95th percentile per-packet one-way delay: 87.200 ms

Loss rate: 0.93%

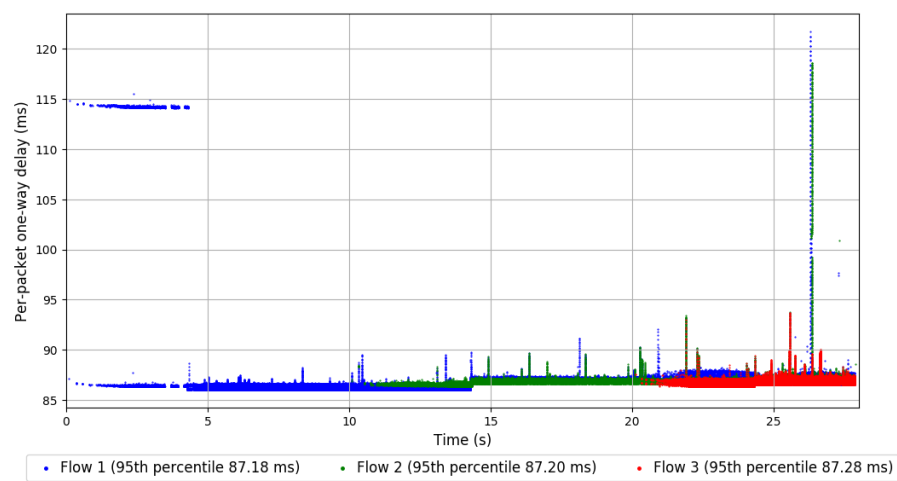
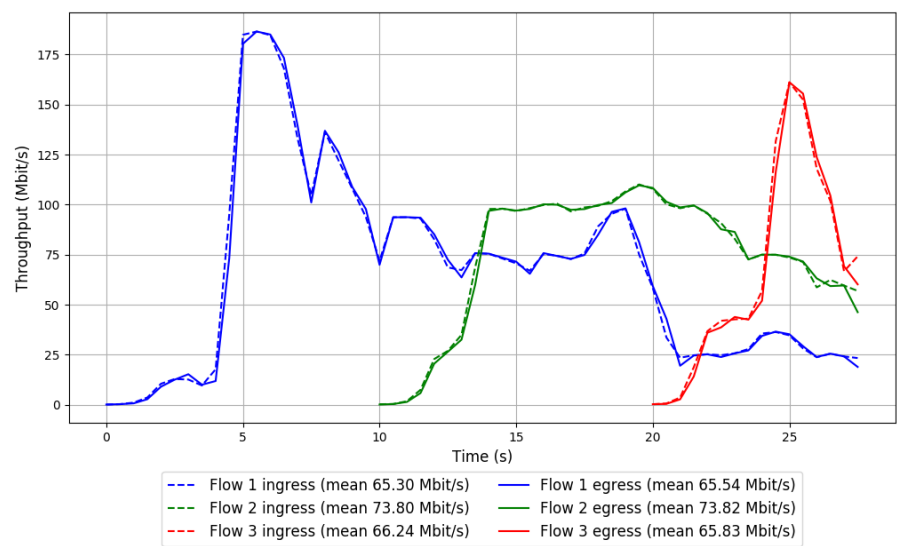
-- Flow 3:

Average throughput: 65.83 Mbit/s

95th percentile per-packet one-way delay: 87.275 ms

Loss rate: 2.80%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-26 10:49:08

End at: 2018-01-26 10:49:38

Below is generated by plot.py at 2018-01-26 14:56:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 140.40 Mbit/s

95th percentile per-packet one-way delay: 87.000 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 75.36 Mbit/s

95th percentile per-packet one-way delay: 86.985 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 70.07 Mbit/s

95th percentile per-packet one-way delay: 86.994 ms

Loss rate: 0.91%

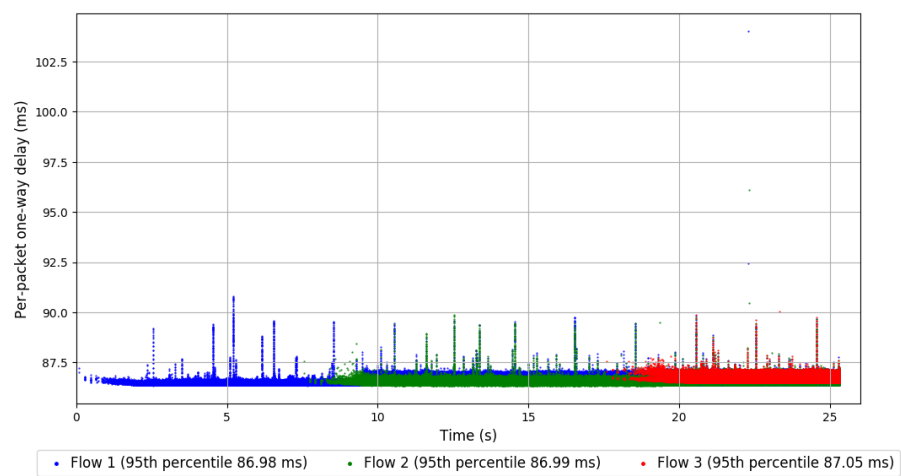
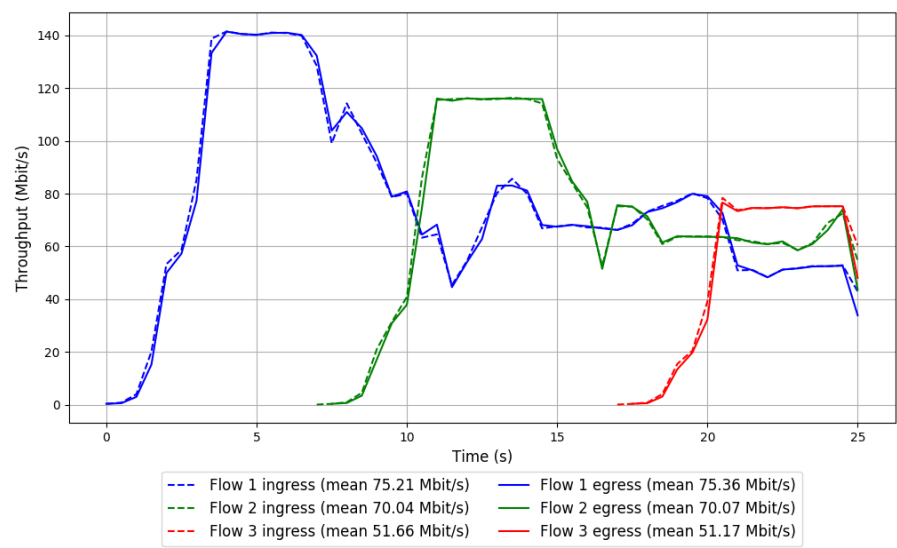
-- Flow 3:

Average throughput: 51.17 Mbit/s

95th percentile per-packet one-way delay: 87.049 ms

Loss rate: 3.12%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-26 11:04:38

End at: 2018-01-26 11:05:08

Below is generated by plot.py at 2018-01-26 14:57:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 140.84 Mbit/s

95th percentile per-packet one-way delay: 87.045 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 78.78 Mbit/s

95th percentile per-packet one-way delay: 87.022 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 69.71 Mbit/s

95th percentile per-packet one-way delay: 87.015 ms

Loss rate: 0.65%

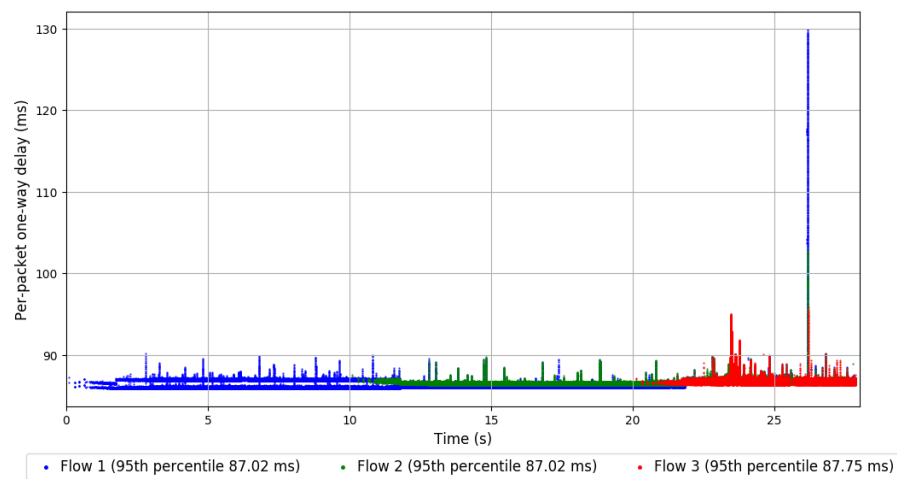
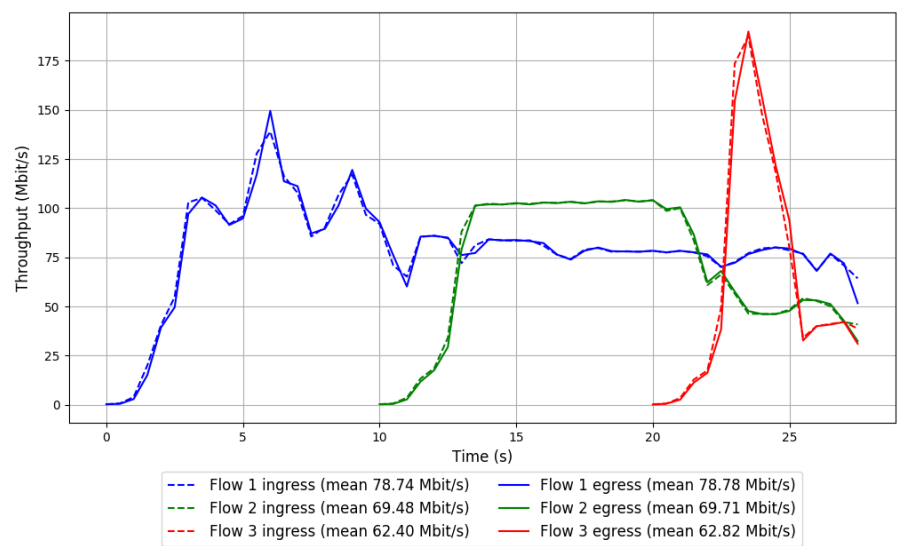
-- Flow 3:

Average throughput: 62.82 Mbit/s

95th percentile per-packet one-way delay: 87.755 ms

Loss rate: 1.53%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-26 11:20:00

End at: 2018-01-26 11:20:30

Below is generated by plot.py at 2018-01-26 14:57:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 131.43 Mbit/s

95th percentile per-packet one-way delay: 87.071 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 53.39 Mbit/s

95th percentile per-packet one-way delay: 87.127 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 84.46 Mbit/s

95th percentile per-packet one-way delay: 87.050 ms

Loss rate: 1.02%

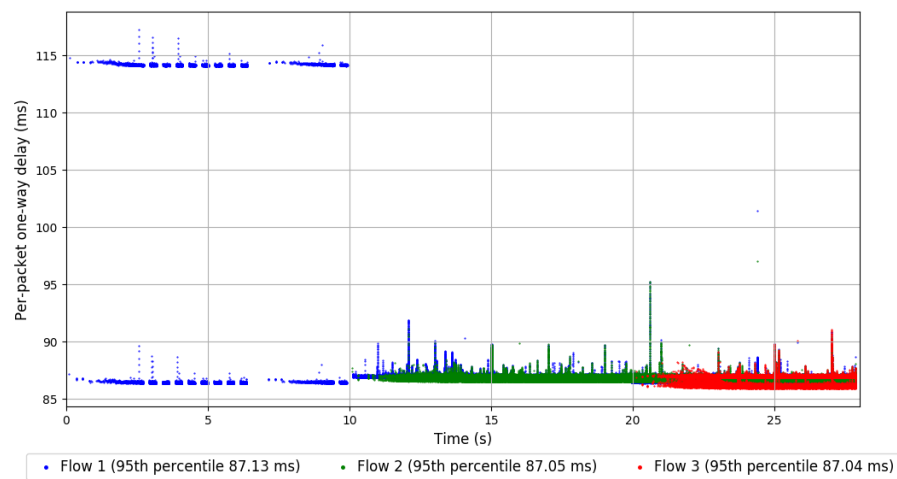
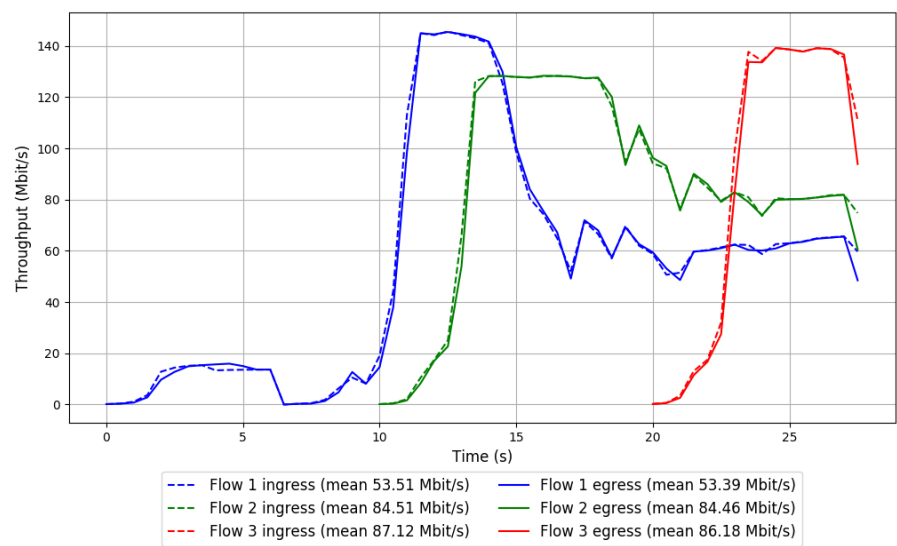
-- Flow 3:

Average throughput: 86.18 Mbit/s

95th percentile per-packet one-way delay: 87.036 ms

Loss rate: 3.24%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-26 11:35:46

End at: 2018-01-26 11:36:16

Below is generated by plot.py at 2018-01-26 14:57:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 132.82 Mbit/s

95th percentile per-packet one-way delay: 87.058 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 81.15 Mbit/s

95th percentile per-packet one-way delay: 87.063 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 66.77 Mbit/s

95th percentile per-packet one-way delay: 86.990 ms

Loss rate: 0.58%

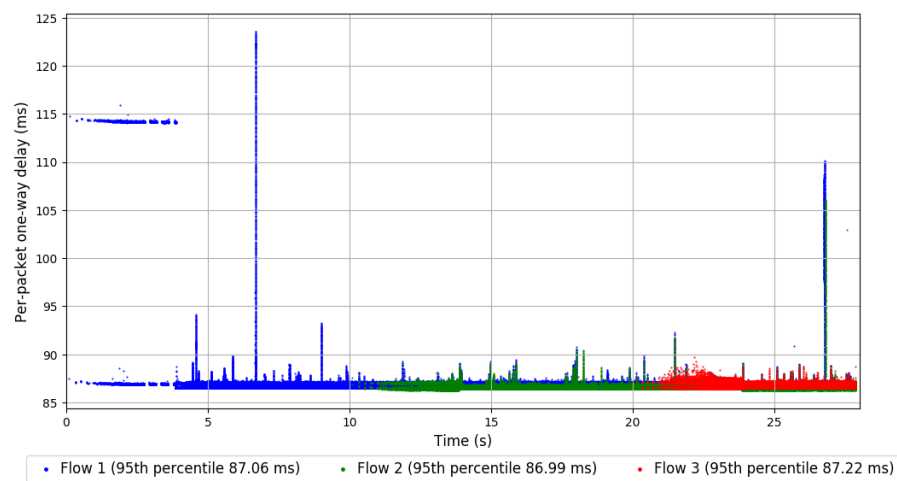
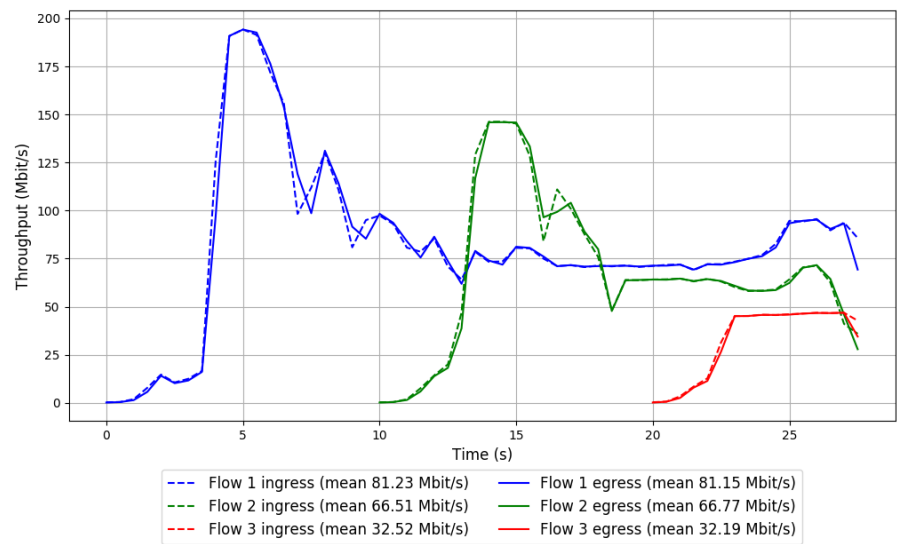
-- Flow 3:

Average throughput: 32.19 Mbit/s

95th percentile per-packet one-way delay: 87.217 ms

Loss rate: 3.19%

Run 10: Report of Copa — Data Link

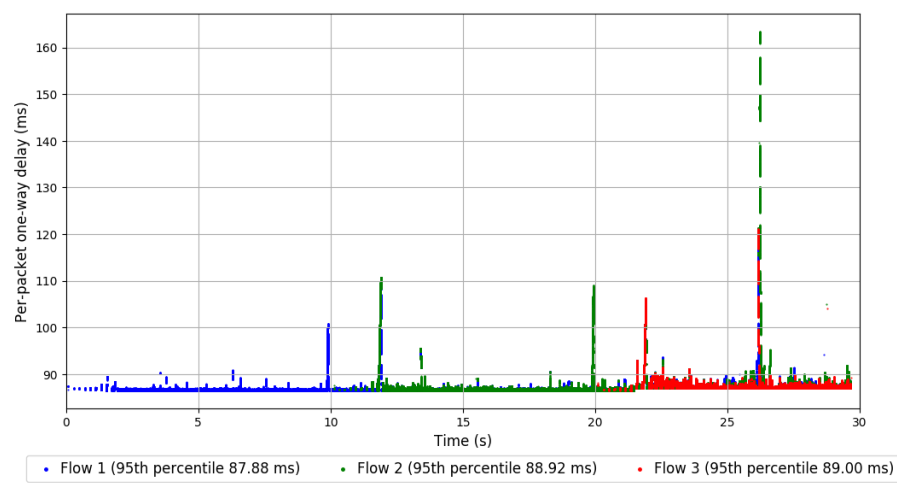
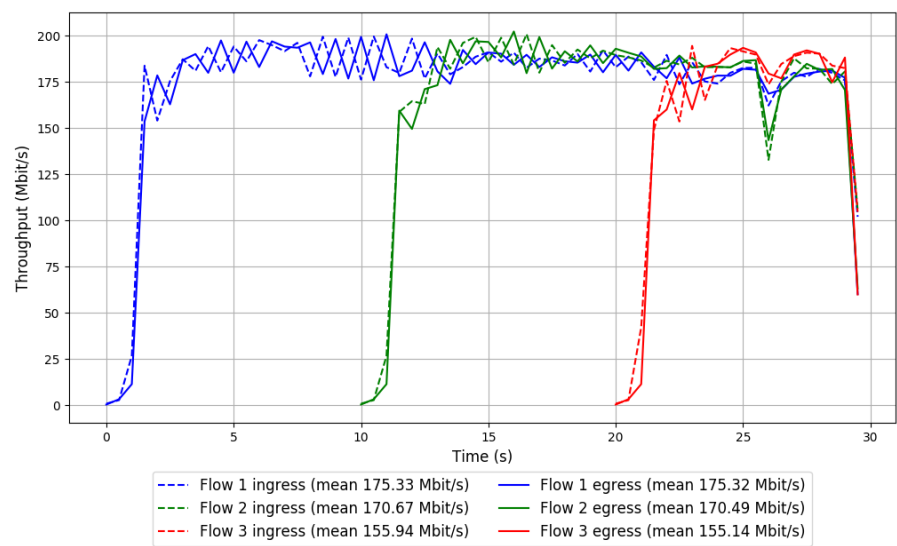


```
Run 1: Statistics of Indigo-2-256

Start at: 2018-01-26 09:05:20
End at: 2018-01-26 09:05:50

# Below is generated by plot.py at 2018-01-26 14:59:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 338.02 Mbit/s
95th percentile per-packet one-way delay: 88.418 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 175.32 Mbit/s
95th percentile per-packet one-way delay: 87.883 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 170.49 Mbit/s
95th percentile per-packet one-way delay: 88.919 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 155.14 Mbit/s
95th percentile per-packet one-way delay: 89.001 ms
Loss rate: 2.57%
```


Run 1: Report of Indigo-2-256 — Data Link



Run 2: Statistics of Indigo-2-256

Start at: 2018-01-26 09:20:53

End at: 2018-01-26 09:21:23

Below is generated by plot.py at 2018-01-26 15:00:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 353.73 Mbit/s

95th percentile per-packet one-way delay: 88.417 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 182.90 Mbit/s

95th percentile per-packet one-way delay: 88.052 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 177.88 Mbit/s

95th percentile per-packet one-way delay: 88.989 ms

Loss rate: 0.95%

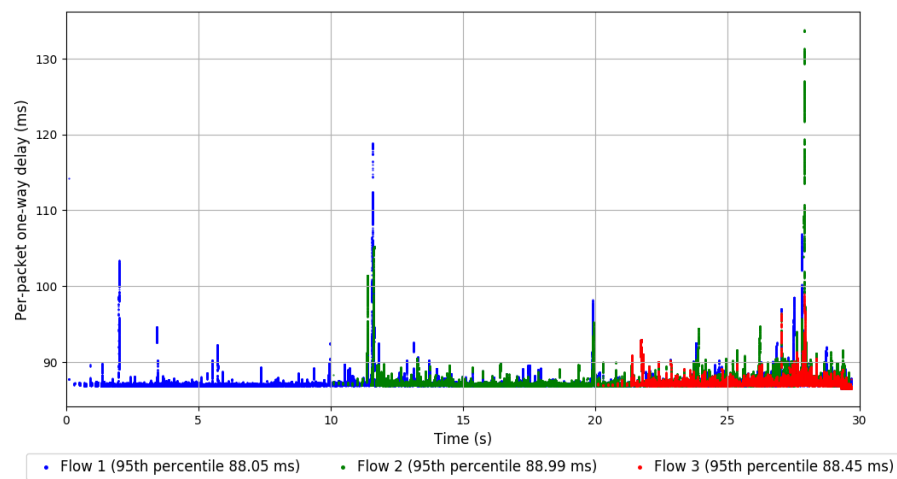
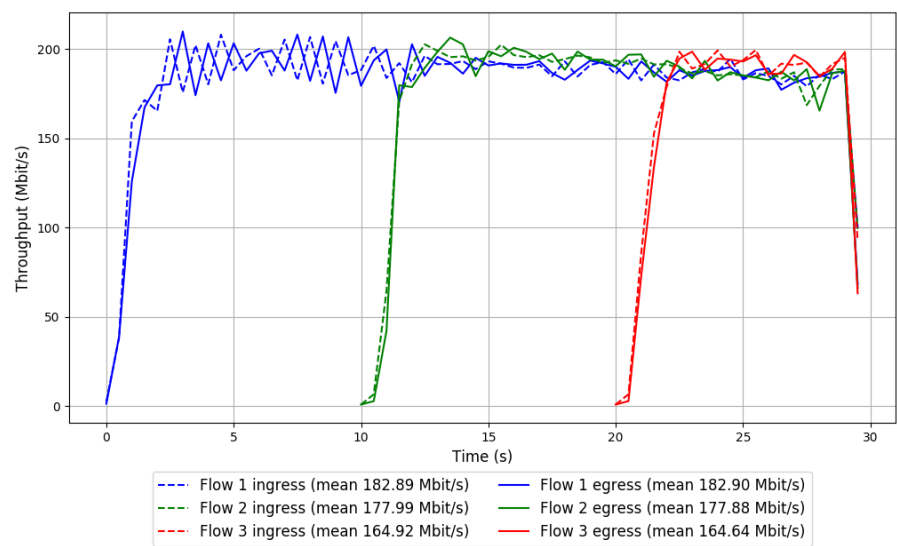
-- Flow 3:

Average throughput: 164.64 Mbit/s

95th percentile per-packet one-way delay: 88.451 ms

Loss rate: 1.94%

Run 2: Report of Indigo-2-256 — Data Link



Run 3: Statistics of Indigo-2-256

Start at: 2018-01-26 09:36:30

End at: 2018-01-26 09:37:00

Below is generated by plot.py at 2018-01-26 15:00:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 181.46 Mbit/s

95th percentile per-packet one-way delay: 114.674 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 98.79 Mbit/s

95th percentile per-packet one-way delay: 114.415 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 54.04 Mbit/s

95th percentile per-packet one-way delay: 114.914 ms

Loss rate: 0.33%

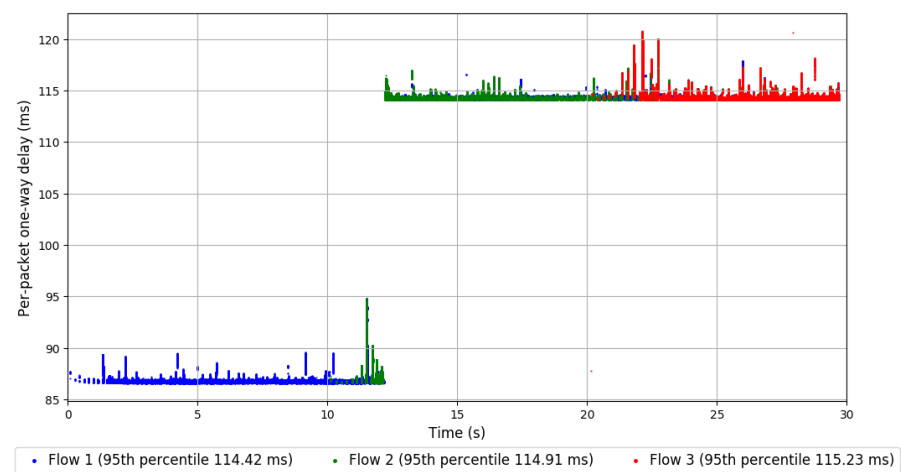
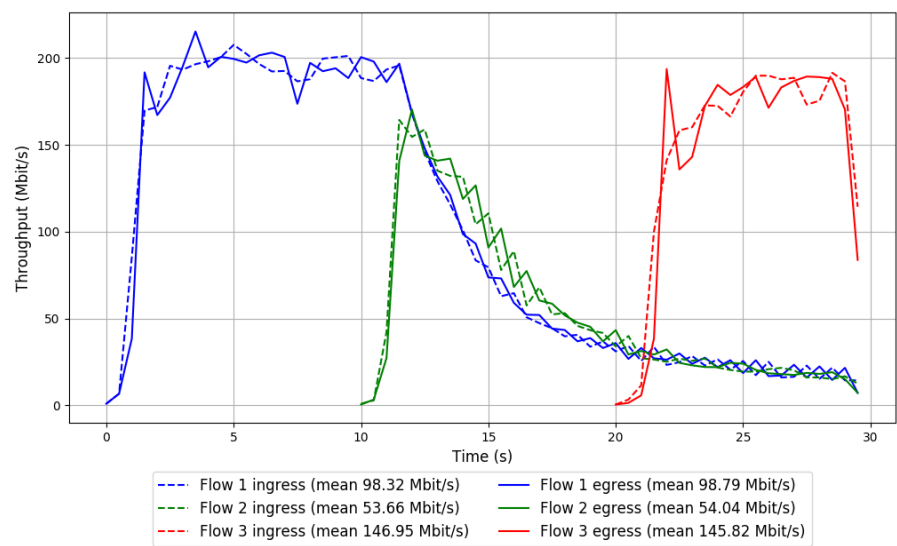
-- Flow 3:

Average throughput: 145.82 Mbit/s

95th percentile per-packet one-way delay: 115.235 ms

Loss rate: 2.65%

Run 3: Report of Indigo-2-256 — Data Link



Run 4: Statistics of Indigo-2-256

Start at: 2018-01-26 09:51:37

End at: 2018-01-26 09:52:07

Below is generated by plot.py at 2018-01-26 15:00:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 220.21 Mbit/s

95th percentile per-packet one-way delay: 114.913 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 118.74 Mbit/s

95th percentile per-packet one-way delay: 114.541 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 82.04 Mbit/s

95th percentile per-packet one-way delay: 115.149 ms

Loss rate: 0.30%

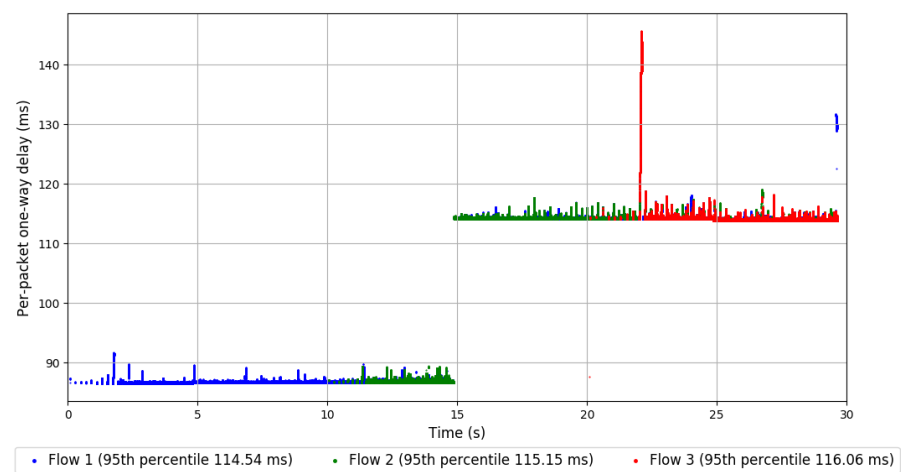
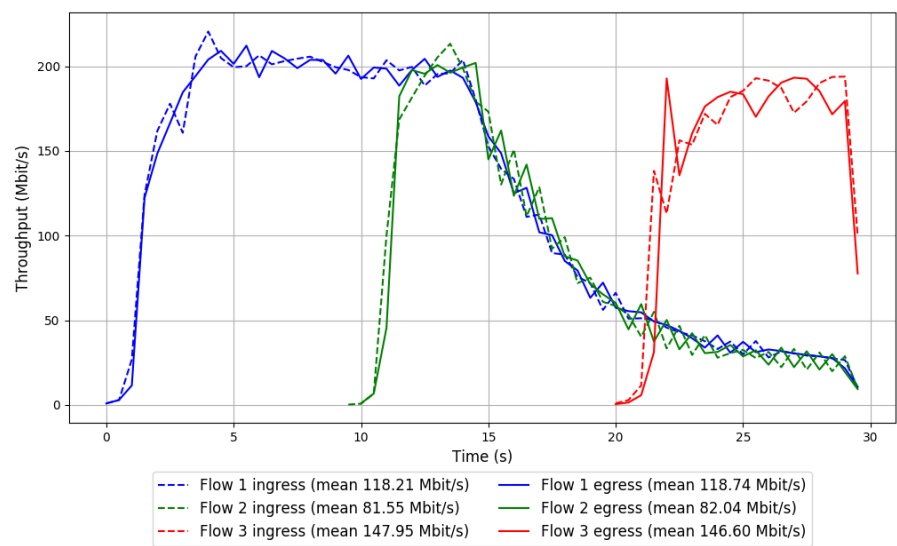
-- Flow 3:

Average throughput: 146.60 Mbit/s

95th percentile per-packet one-way delay: 116.061 ms

Loss rate: 2.96%

Run 4: Report of Indigo-2-256 — Data Link



Run 5: Statistics of Indigo-2-256

Start at: 2018-01-26 10:06:24

End at: 2018-01-26 10:06:54

Below is generated by plot.py at 2018-01-26 15:00:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 238.26 Mbit/s

95th percentile per-packet one-way delay: 114.333 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 72.34 Mbit/s

95th percentile per-packet one-way delay: 114.395 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 175.24 Mbit/s

95th percentile per-packet one-way delay: 114.367 ms

Loss rate: 0.95%

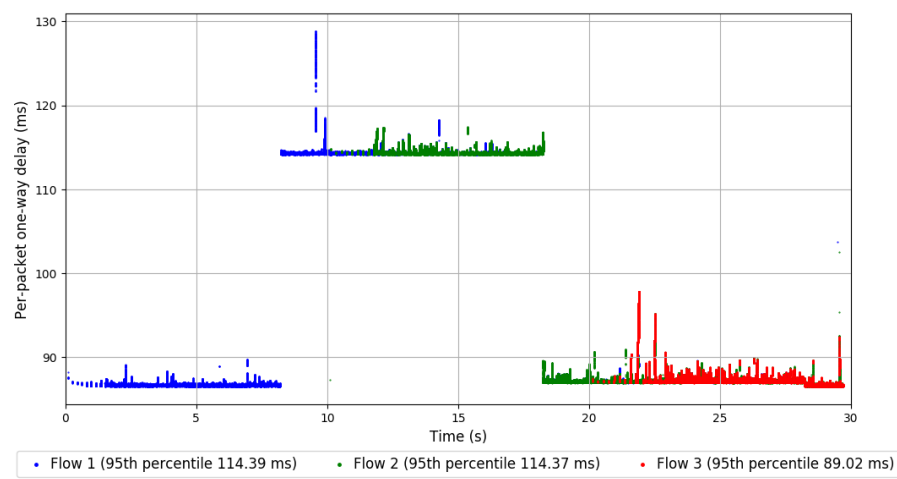
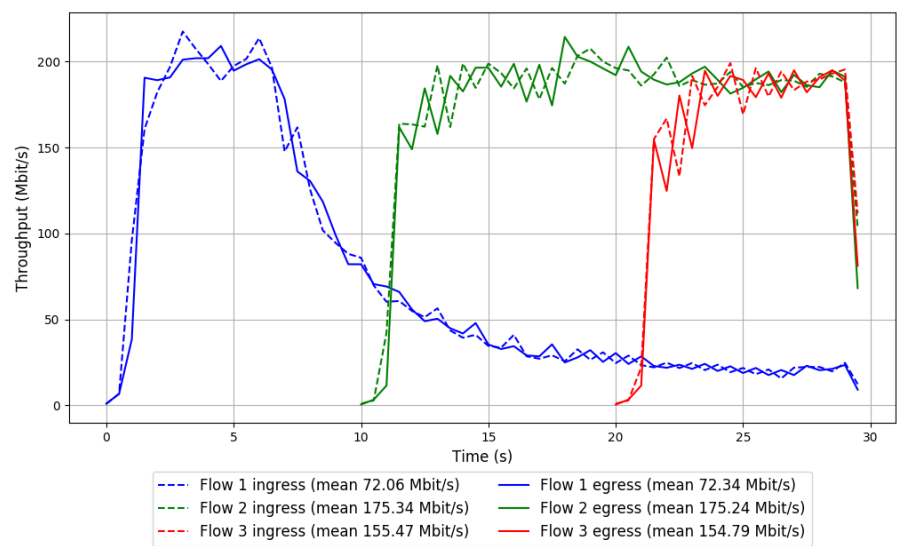
-- Flow 3:

Average throughput: 154.79 Mbit/s

95th percentile per-packet one-way delay: 89.024 ms

Loss rate: 2.23%

Run 5: Report of Indigo-2-256 — Data Link



Run 6: Statistics of Indigo-2-256

Start at: 2018-01-26 10:21:44

End at: 2018-01-26 10:22:14

Below is generated by plot.py at 2018-01-26 15:02:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 336.11 Mbit/s

95th percentile per-packet one-way delay: 88.259 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 177.65 Mbit/s

95th percentile per-packet one-way delay: 87.794 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 175.91 Mbit/s

95th percentile per-packet one-way delay: 88.360 ms

Loss rate: 0.86%

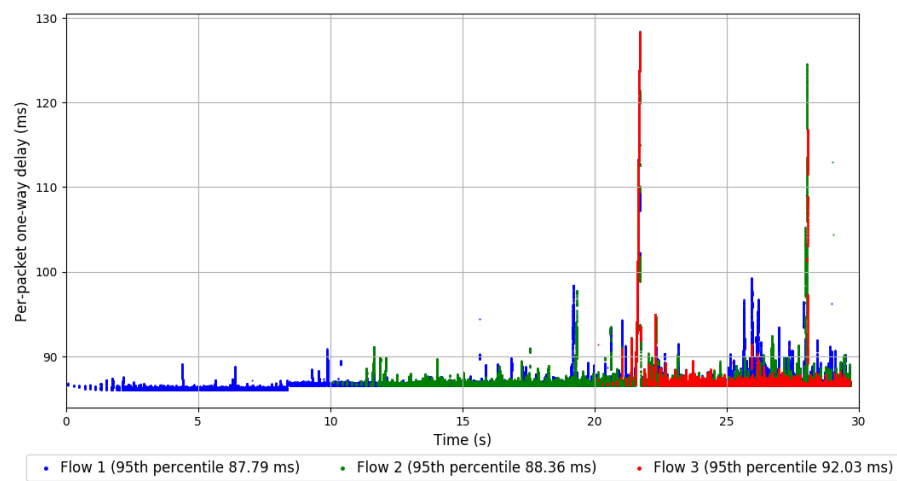
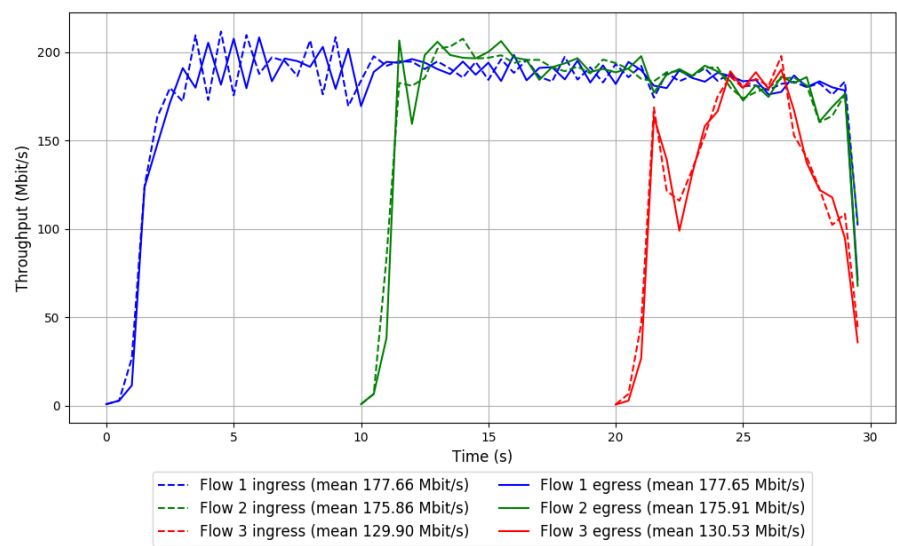
-- Flow 3:

Average throughput: 130.53 Mbit/s

95th percentile per-packet one-way delay: 92.027 ms

Loss rate: 1.29%

Run 6: Report of Indigo-2-256 — Data Link



Run 7: Statistics of Indigo-2-256

Start at: 2018-01-26 10:36:42

End at: 2018-01-26 10:37:12

Below is generated by plot.py at 2018-01-26 15:02:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 335.73 Mbit/s

95th percentile per-packet one-way delay: 88.028 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 171.39 Mbit/s

95th percentile per-packet one-way delay: 87.532 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 176.58 Mbit/s

95th percentile per-packet one-way delay: 88.361 ms

Loss rate: 0.90%

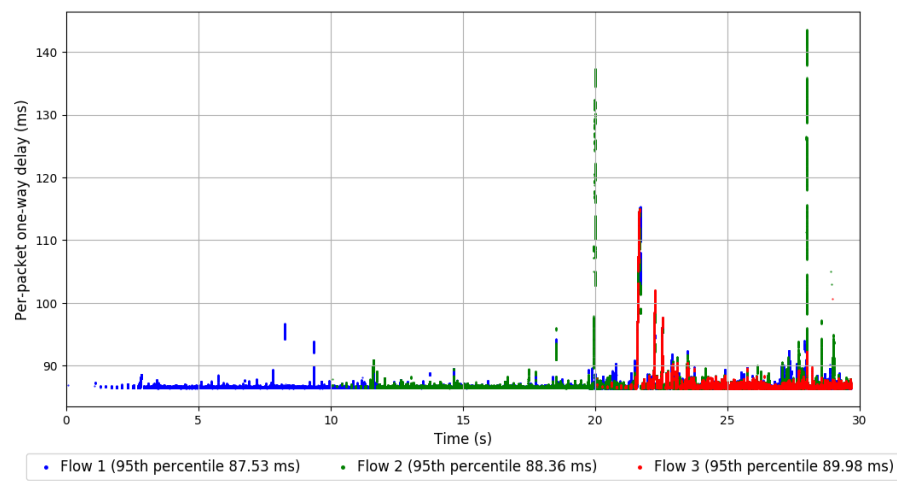
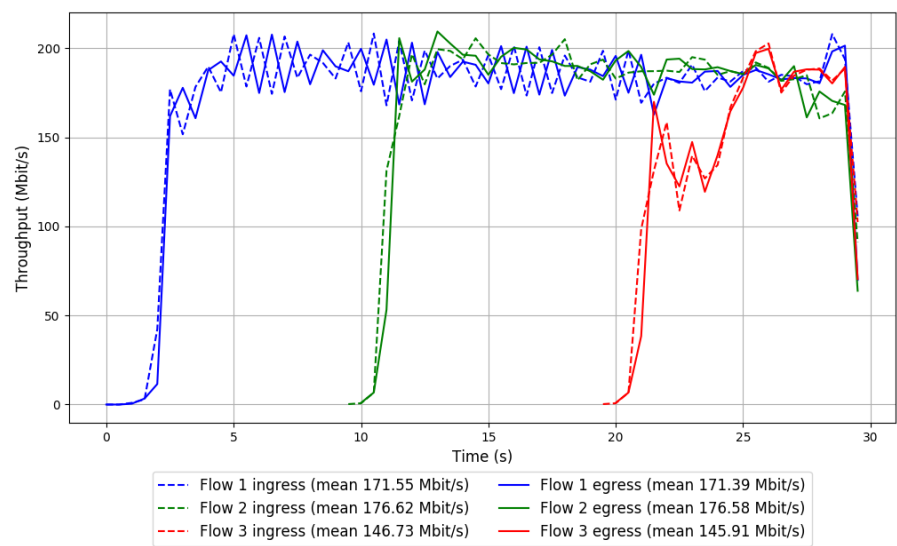
-- Flow 3:

Average throughput: 145.91 Mbit/s

95th percentile per-packet one-way delay: 89.982 ms

Loss rate: 2.32%

Run 7: Report of Indigo-2-256 — Data Link



Run 8: Statistics of Indigo-2-256

Start at: 2018-01-26 10:52:05

End at: 2018-01-26 10:52:35

Below is generated by plot.py at 2018-01-26 15:02:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 246.72 Mbit/s

95th percentile per-packet one-way delay: 114.500 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 89.54 Mbit/s

95th percentile per-packet one-way delay: 114.597 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 167.37 Mbit/s

95th percentile per-packet one-way delay: 114.582 ms

Loss rate: 0.46%

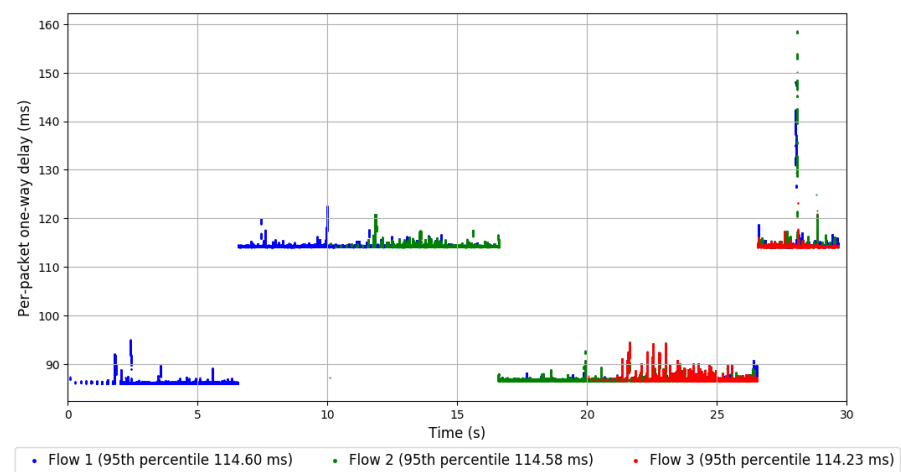
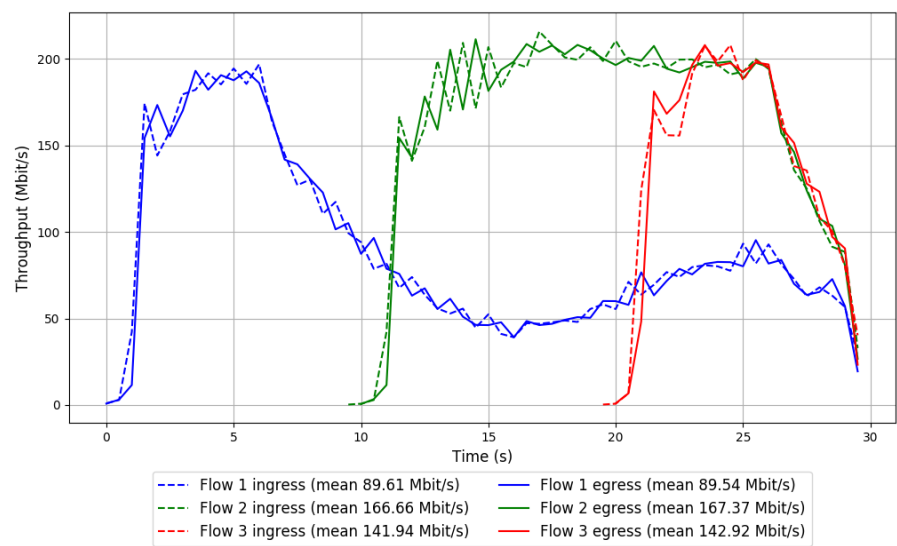
-- Flow 3:

Average throughput: 142.92 Mbit/s

95th percentile per-packet one-way delay: 114.229 ms

Loss rate: 1.10%

Run 8: Report of Indigo-2-256 — Data Link



Run 9: Statistics of Indigo-2-256

Start at: 2018-01-26 11:07:41

End at: 2018-01-26 11:08:11

Below is generated by plot.py at 2018-01-26 15:02:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 173.42 Mbit/s

95th percentile per-packet one-way delay: 114.464 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 91.59 Mbit/s

95th percentile per-packet one-way delay: 114.407 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 40.97 Mbit/s

95th percentile per-packet one-way delay: 115.587 ms

Loss rate: 0.55%

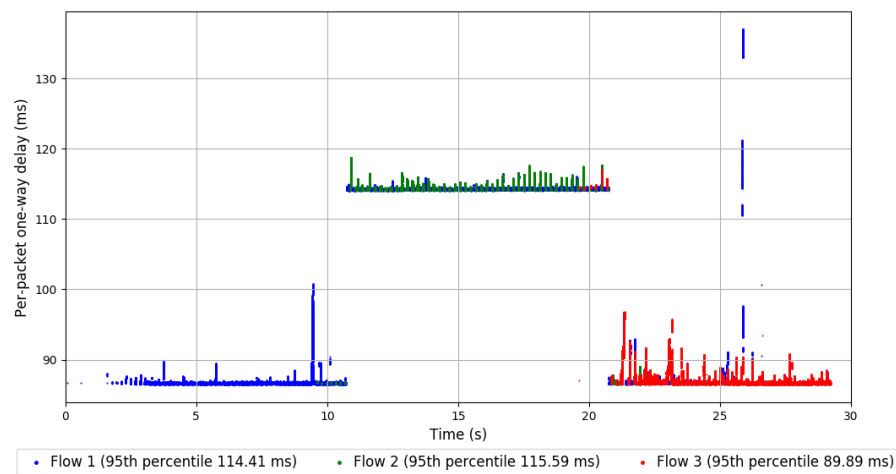
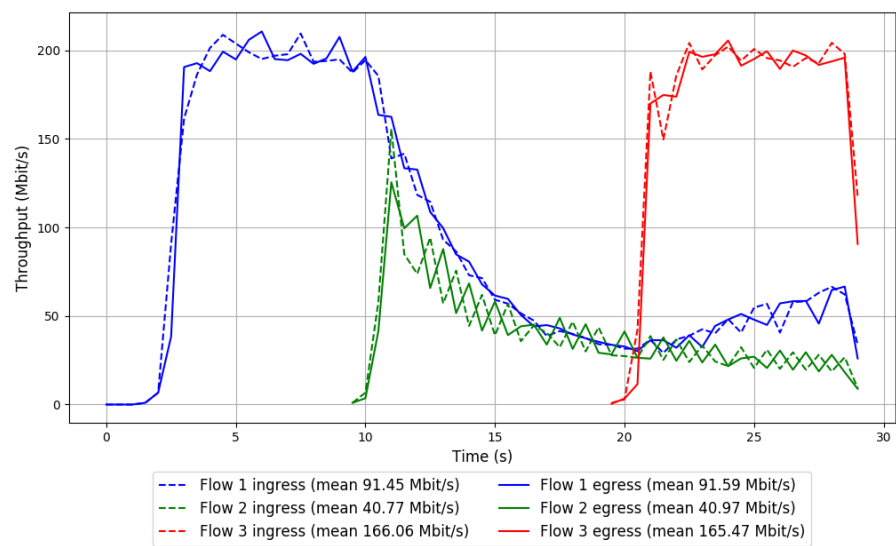
-- Flow 3:

Average throughput: 165.47 Mbit/s

95th percentile per-packet one-way delay: 89.892 ms

Loss rate: 2.11%

Run 9: Report of Indigo-2-256 — Data Link



Run 10: Statistics of Indigo-2-256

Start at: 2018-01-26 11:23:07

End at: 2018-01-26 11:23:37

Below is generated by plot.py at 2018-01-26 15:04:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 307.33 Mbit/s

95th percentile per-packet one-way delay: 114.583 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 153.49 Mbit/s

95th percentile per-packet one-way delay: 114.663 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 156.76 Mbit/s

95th percentile per-packet one-way delay: 114.615 ms

Loss rate: 0.33%

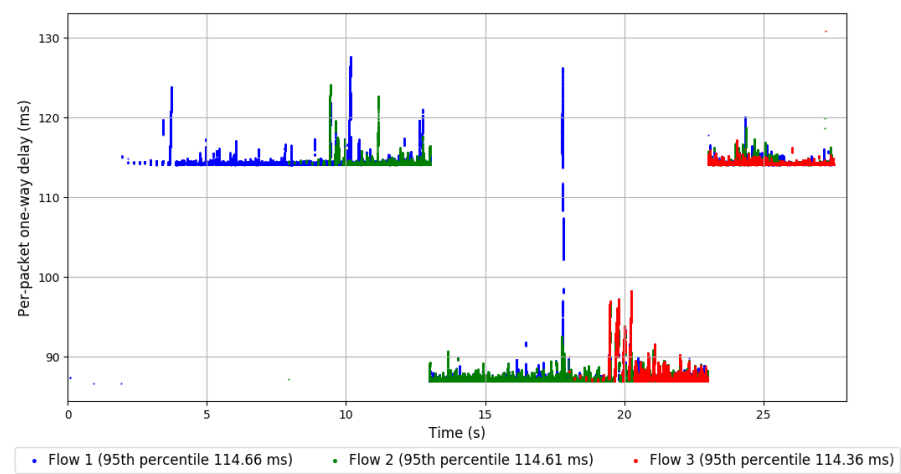
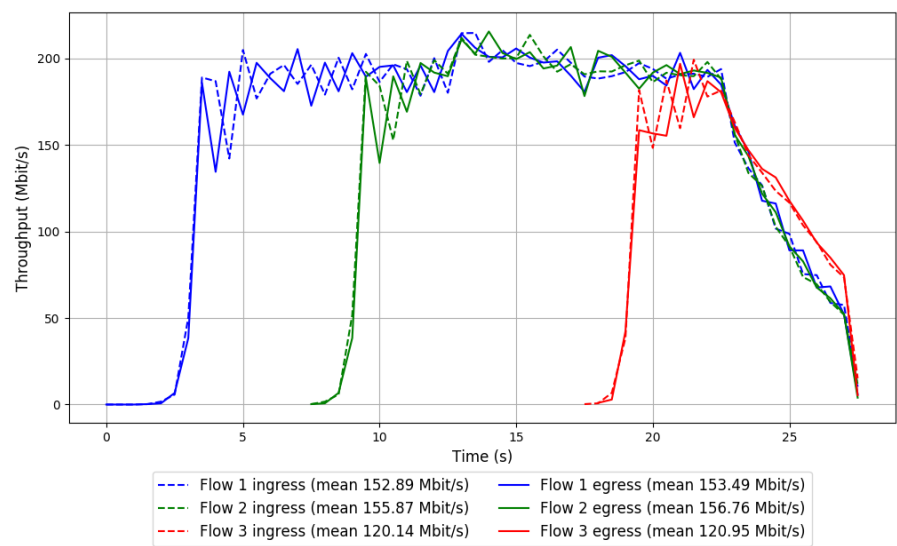
-- Flow 3:

Average throughput: 120.95 Mbit/s

95th percentile per-packet one-way delay: 114.359 ms

Loss rate: 1.14%

Run 10: Report of Indigo-2-256 — Data Link

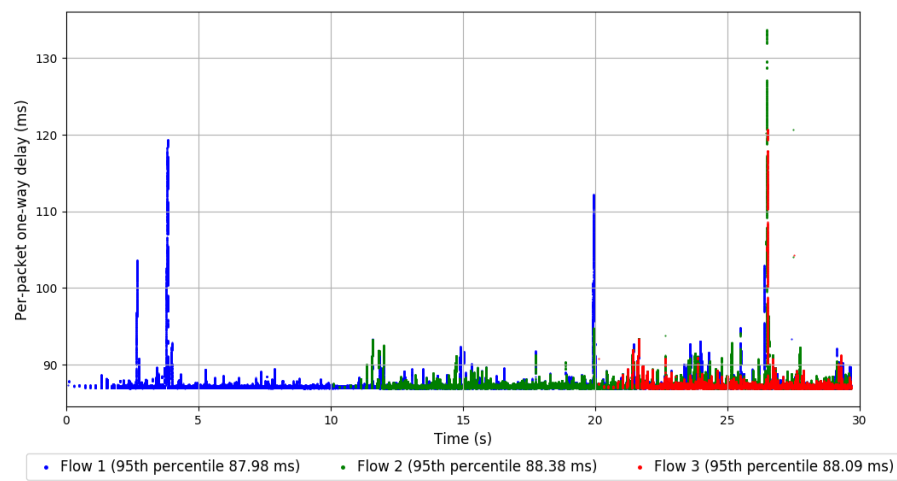
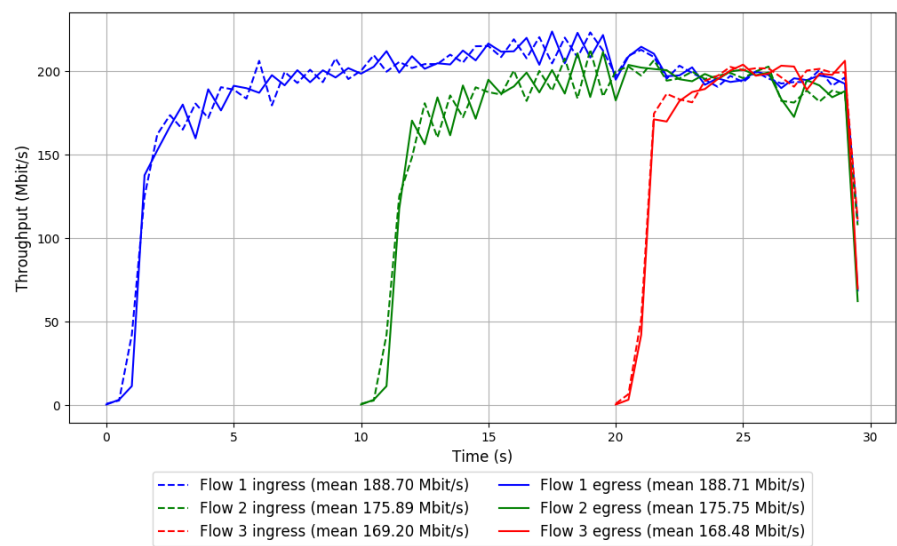


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-01-26 09:11:00
End at: 2018-01-26 09:11:30

# Below is generated by plot.py at 2018-01-26 15:05:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 359.15 Mbit/s
95th percentile per-packet one-way delay: 88.155 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 188.71 Mbit/s
95th percentile per-packet one-way delay: 87.984 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 175.75 Mbit/s
95th percentile per-packet one-way delay: 88.379 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 168.48 Mbit/s
95th percentile per-packet one-way delay: 88.095 ms
Loss rate: 2.21%
```

Run 1: Report of Indigo-1-32 — Data Link



Run 2: Statistics of Indigo-1-32

Start at: 2018-01-26 09:26:21

End at: 2018-01-26 09:26:51

Below is generated by plot.py at 2018-01-26 15:06:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 378.64 Mbit/s

95th percentile per-packet one-way delay: 87.788 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 202.76 Mbit/s

95th percentile per-packet one-way delay: 87.697 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 183.98 Mbit/s

95th percentile per-packet one-way delay: 87.962 ms

Loss rate: 0.81%

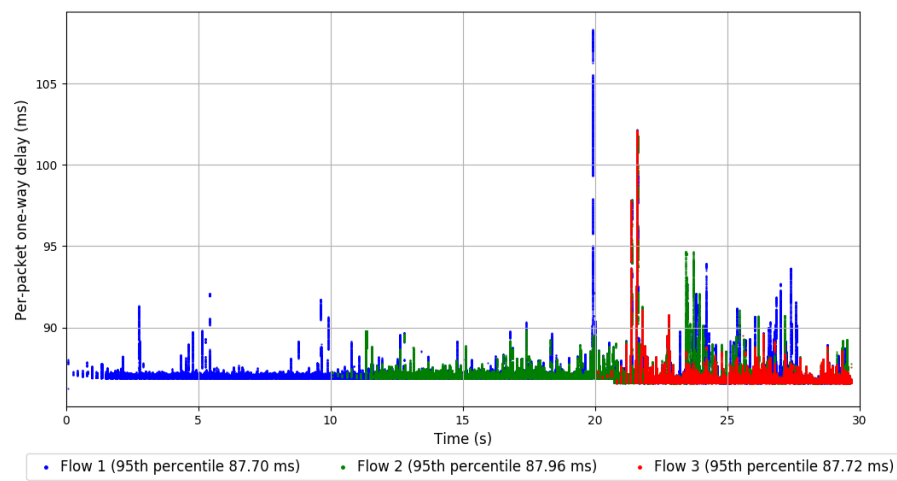
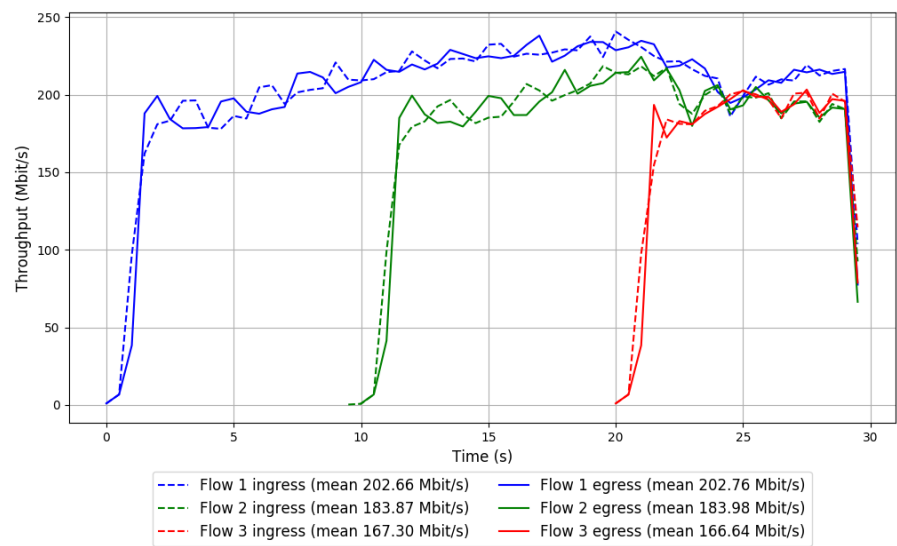
-- Flow 3:

Average throughput: 166.64 Mbit/s

95th percentile per-packet one-way delay: 87.716 ms

Loss rate: 2.17%

Run 2: Report of Indigo-1-32 — Data Link



Run 3: Statistics of Indigo-1-32

Start at: 2018-01-26 09:41:49

End at: 2018-01-26 09:42:19

Below is generated by plot.py at 2018-01-26 15:06:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 301.22 Mbit/s

95th percentile per-packet one-way delay: 114.401 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 164.26 Mbit/s

95th percentile per-packet one-way delay: 114.318 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 145.39 Mbit/s

95th percentile per-packet one-way delay: 114.713 ms

Loss rate: 0.97%

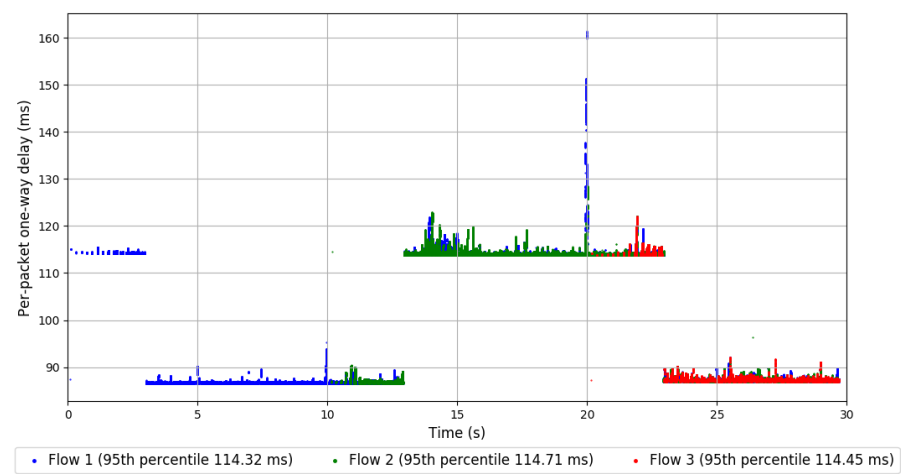
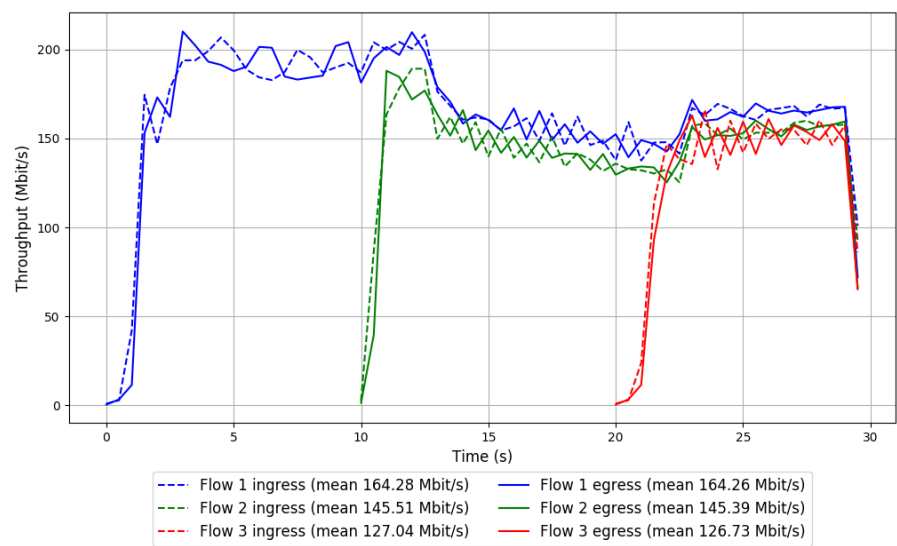
-- Flow 3:

Average throughput: 126.73 Mbit/s

95th percentile per-packet one-way delay: 114.450 ms

Loss rate: 2.05%

Run 3: Report of Indigo-1-32 — Data Link



Run 4: Statistics of Indigo-1-32

Start at: 2018-01-26 09:56:53

End at: 2018-01-26 09:57:23

Below is generated by plot.py at 2018-01-26 15:07:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 343.73 Mbit/s

95th percentile per-packet one-way delay: 114.381 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 190.53 Mbit/s

95th percentile per-packet one-way delay: 114.386 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 150.96 Mbit/s

95th percentile per-packet one-way delay: 114.493 ms

Loss rate: 1.08%

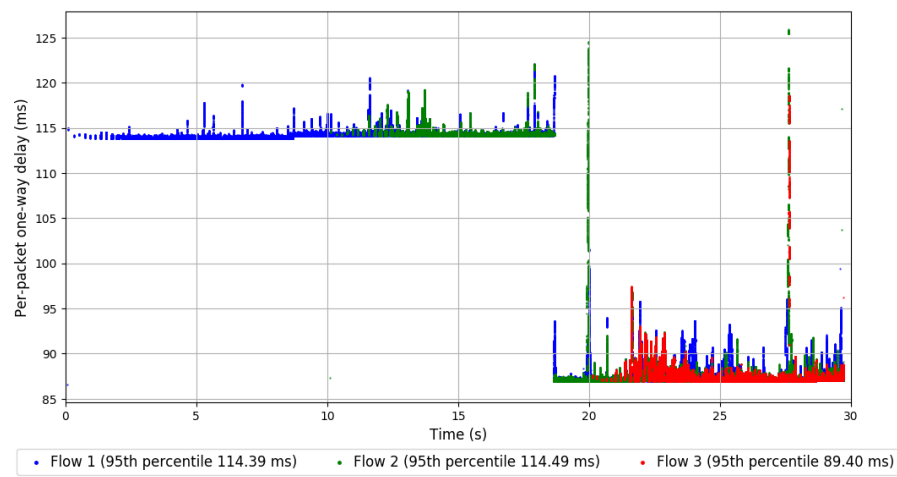
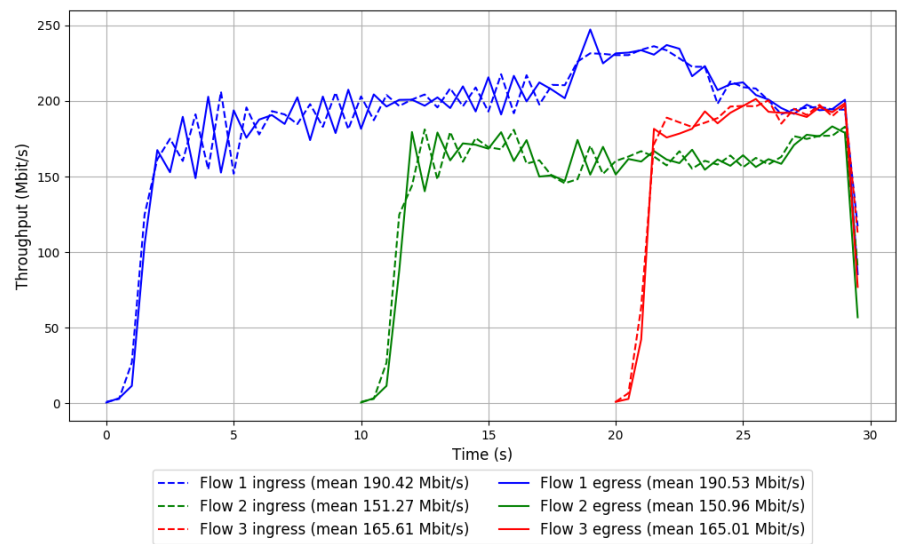
-- Flow 3:

Average throughput: 165.01 Mbit/s

95th percentile per-packet one-way delay: 89.399 ms

Loss rate: 2.15%

Run 4: Report of Indigo-1-32 — Data Link



Run 5: Statistics of Indigo-1-32

Start at: 2018-01-26 10:11:49

End at: 2018-01-26 10:12:19

Below is generated by plot.py at 2018-01-26 15:07:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 292.66 Mbit/s

95th percentile per-packet one-way delay: 87.835 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 122.75 Mbit/s

95th percentile per-packet one-way delay: 87.623 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 173.53 Mbit/s

95th percentile per-packet one-way delay: 87.990 ms

Loss rate: 0.81%

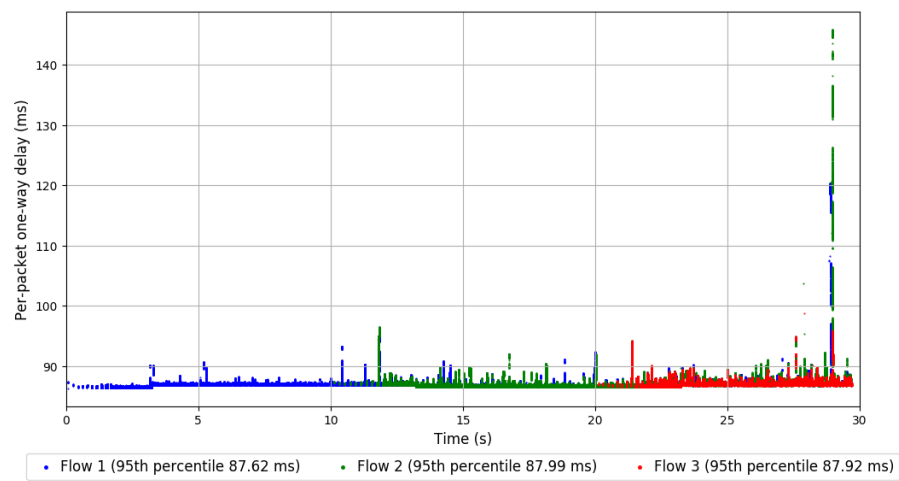
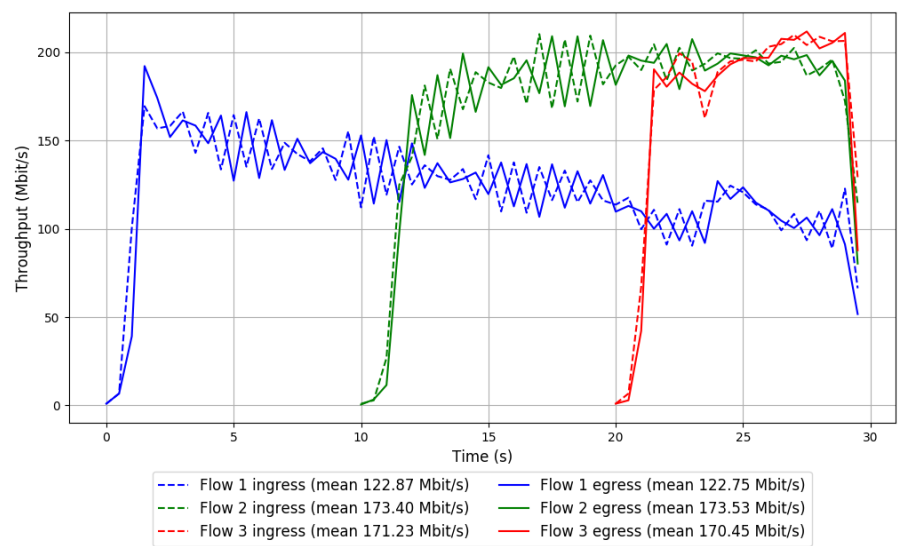
-- Flow 3:

Average throughput: 170.45 Mbit/s

95th percentile per-packet one-way delay: 87.919 ms

Loss rate: 2.23%

Run 5: Report of Indigo-1-32 — Data Link



Run 6: Statistics of Indigo-1-32

Start at: 2018-01-26 10:26:57

End at: 2018-01-26 10:27:27

Below is generated by plot.py at 2018-01-26 15:08:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 358.58 Mbit/s

95th percentile per-packet one-way delay: 88.979 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 191.21 Mbit/s

95th percentile per-packet one-way delay: 88.818 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 176.75 Mbit/s

95th percentile per-packet one-way delay: 88.906 ms

Loss rate: 0.88%

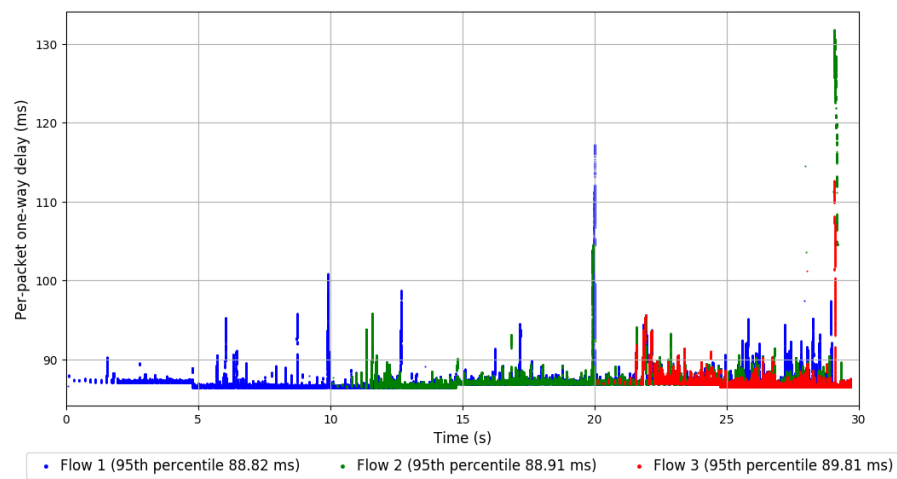
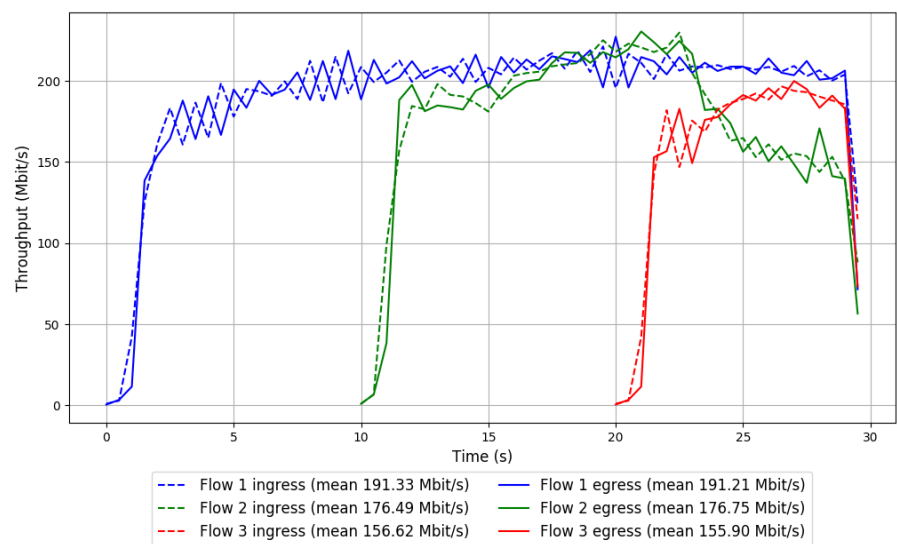
-- Flow 3:

Average throughput: 155.90 Mbit/s

95th percentile per-packet one-way delay: 89.809 ms

Loss rate: 2.52%

Run 6: Report of Indigo-1-32 — Data Link



Run 7: Statistics of Indigo-1-32

Start at: 2018-01-26 10:42:08

End at: 2018-01-26 10:42:38

Below is generated by plot.py at 2018-01-26 15:09:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 370.53 Mbit/s

95th percentile per-packet one-way delay: 88.214 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 186.52 Mbit/s

95th percentile per-packet one-way delay: 87.765 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 197.39 Mbit/s

95th percentile per-packet one-way delay: 88.753 ms

Loss rate: 0.85%

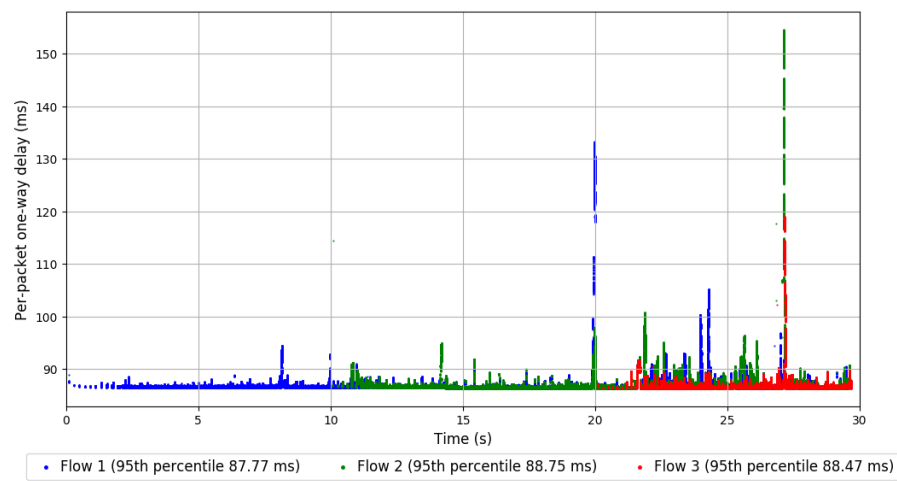
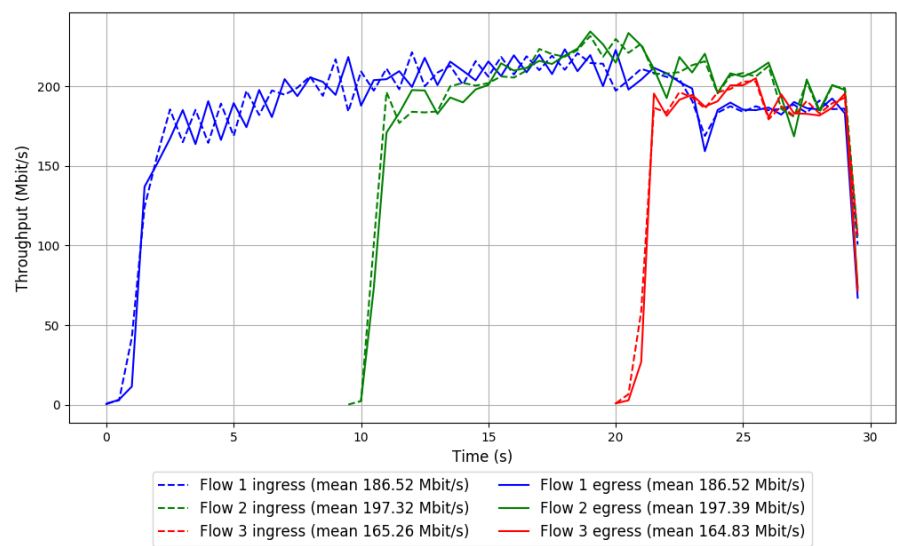
-- Flow 3:

Average throughput: 164.83 Mbit/s

95th percentile per-packet one-way delay: 88.466 ms

Loss rate: 2.08%

Run 7: Report of Indigo-1-32 — Data Link



Run 8: Statistics of Indigo-1-32

Start at: 2018-01-26 10:57:31

End at: 2018-01-26 10:58:01

Below is generated by plot.py at 2018-01-26 15:09:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 328.64 Mbit/s

95th percentile per-packet one-way delay: 114.347 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 188.38 Mbit/s

95th percentile per-packet one-way delay: 114.253 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 148.09 Mbit/s

95th percentile per-packet one-way delay: 114.557 ms

Loss rate: 0.78%

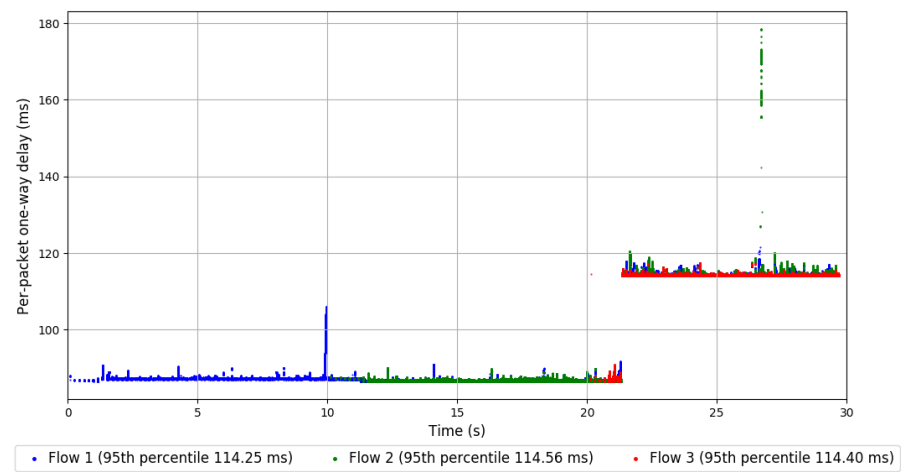
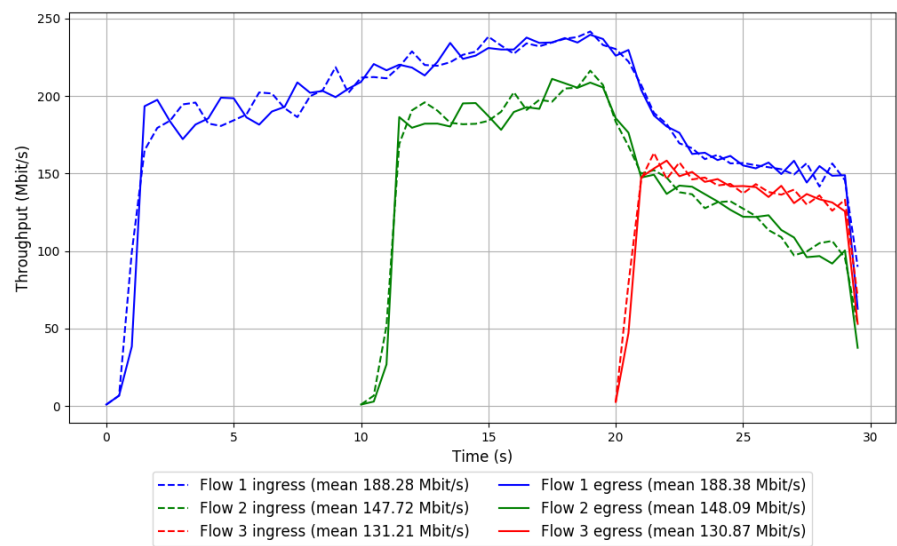
-- Flow 3:

Average throughput: 130.87 Mbit/s

95th percentile per-packet one-way delay: 114.401 ms

Loss rate: 2.02%

Run 8: Report of Indigo-1-32 — Data Link



Run 9: Statistics of Indigo-1-32

Start at: 2018-01-26 11:12:56

End at: 2018-01-26 11:13:26

Below is generated by plot.py at 2018-01-26 15:11:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.41 Mbit/s

95th percentile per-packet one-way delay: 115.518 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 173.89 Mbit/s

95th percentile per-packet one-way delay: 114.888 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 150.48 Mbit/s

95th percentile per-packet one-way delay: 115.644 ms

Loss rate: 0.95%

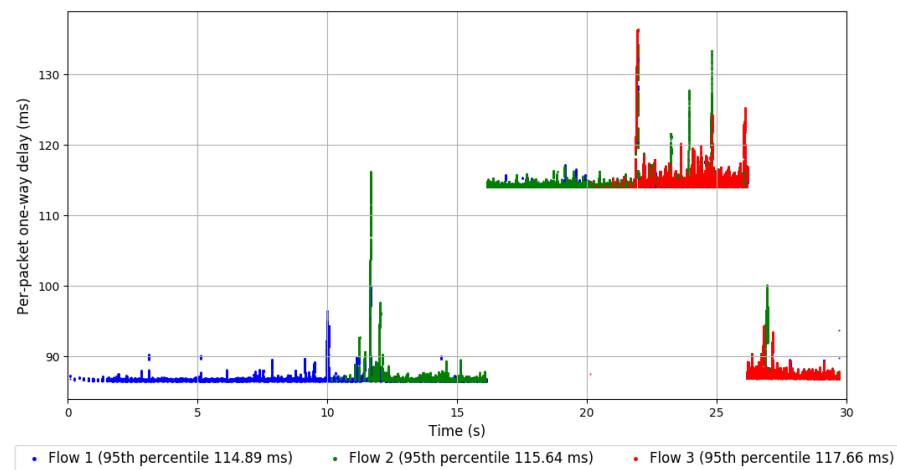
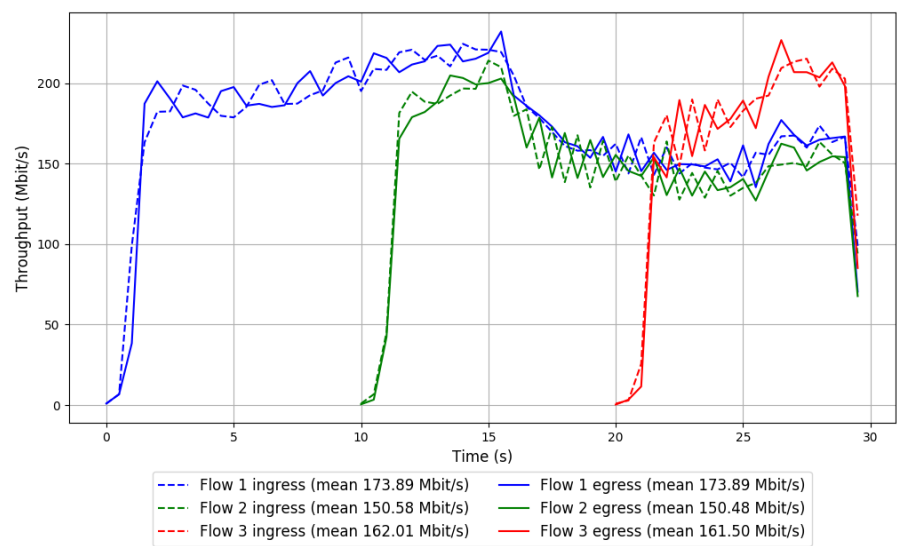
-- Flow 3:

Average throughput: 161.50 Mbit/s

95th percentile per-packet one-way delay: 117.662 ms

Loss rate: 2.10%

Run 9: Report of Indigo-1-32 — Data Link



Run 10: Statistics of Indigo-1-32

Start at: 2018-01-26 11:28:36

End at: 2018-01-26 11:29:06

Below is generated by plot.py at 2018-01-26 15:11:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 326.05 Mbit/s

95th percentile per-packet one-way delay: 114.751 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 174.56 Mbit/s

95th percentile per-packet one-way delay: 114.515 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 143.03 Mbit/s

95th percentile per-packet one-way delay: 114.848 ms

Loss rate: 0.76%

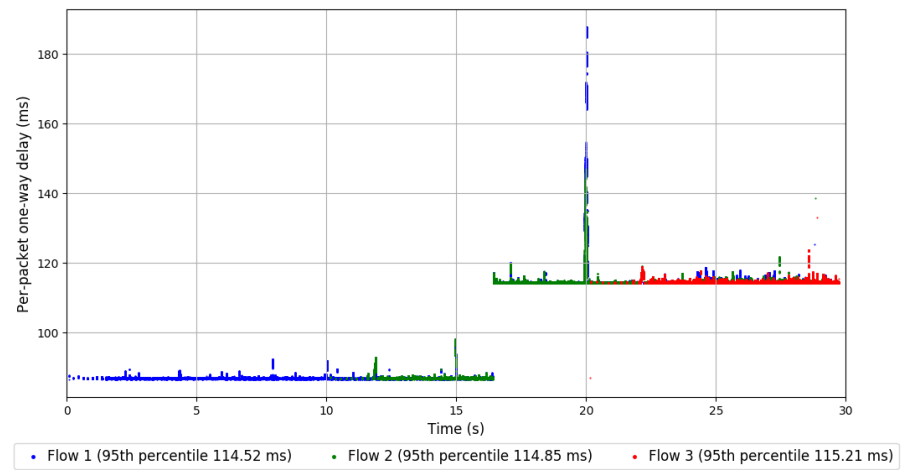
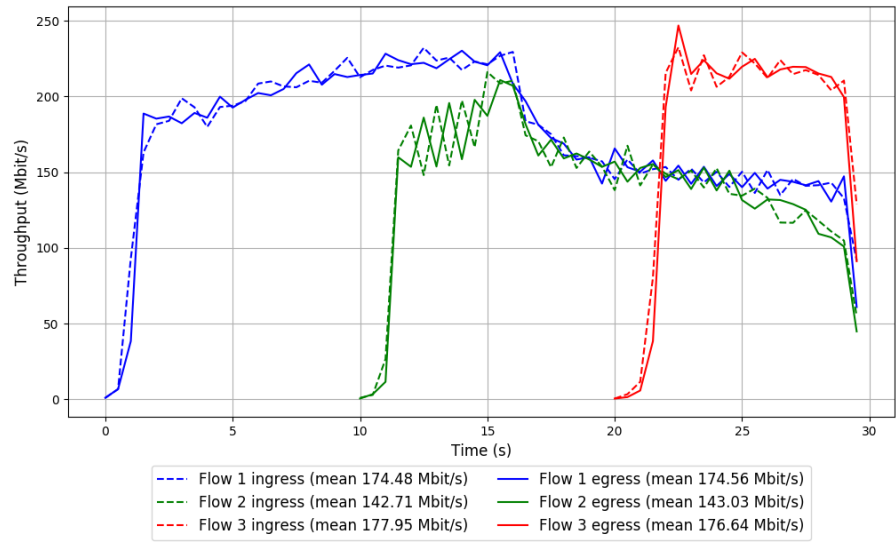
-- Flow 3:

Average throughput: 176.64 Mbit/s

95th percentile per-packet one-way delay: 115.206 ms

Loss rate: 2.49%

Run 10: Report of Indigo-1-32 — Data Link

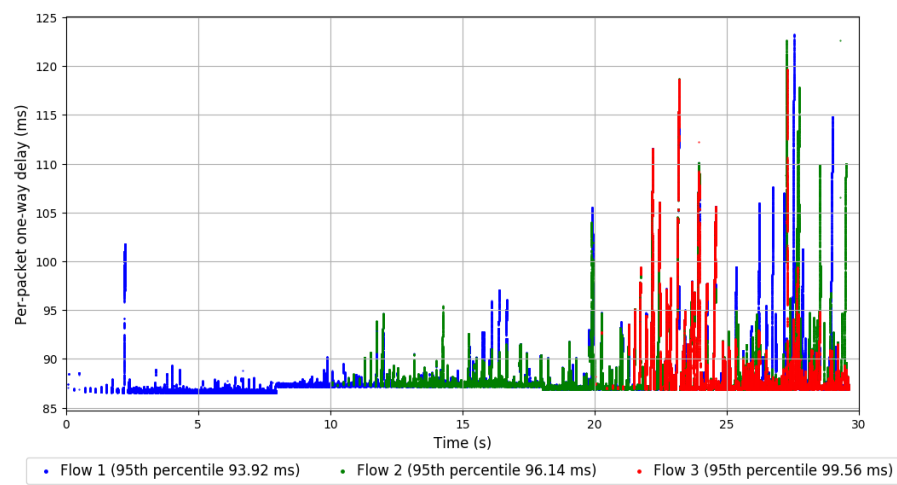
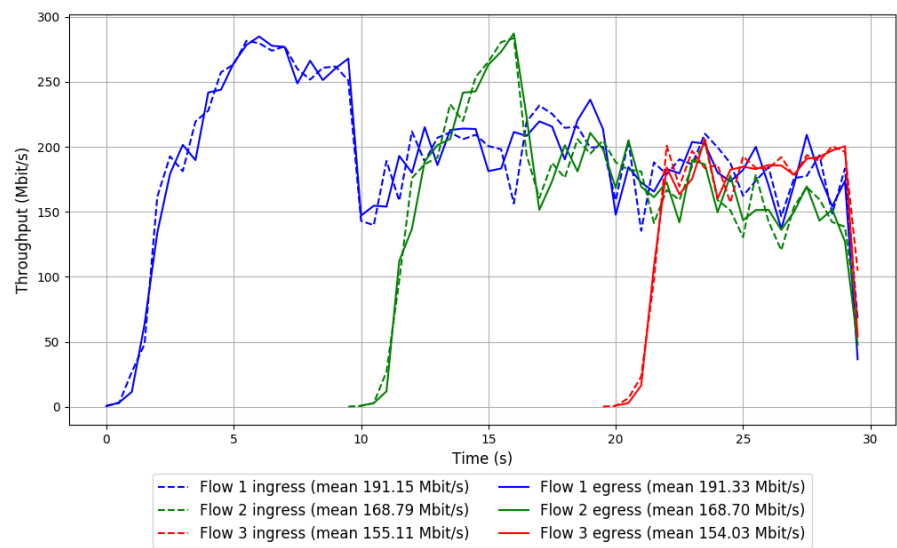


```
Run 1: Statistics of Indigo-1-128

Start at: 2018-01-26 09:08:04
End at: 2018-01-26 09:08:34

# Below is generated by plot.py at 2018-01-26 15:12:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 352.96 Mbit/s
95th percentile per-packet one-way delay: 95.645 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 191.33 Mbit/s
95th percentile per-packet one-way delay: 93.922 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 168.70 Mbit/s
95th percentile per-packet one-way delay: 96.136 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 154.03 Mbit/s
95th percentile per-packet one-way delay: 99.555 ms
Loss rate: 2.73%
```


Run 1: Report of Indigo-1-128 — Data Link



Run 2: Statistics of Indigo-1-128

Start at: 2018-01-26 09:23:31

End at: 2018-01-26 09:24:01

Below is generated by plot.py at 2018-01-26 15:13:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 376.54 Mbit/s

95th percentile per-packet one-way delay: 88.229 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 191.40 Mbit/s

95th percentile per-packet one-way delay: 87.784 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 195.38 Mbit/s

95th percentile per-packet one-way delay: 88.872 ms

Loss rate: 0.90%

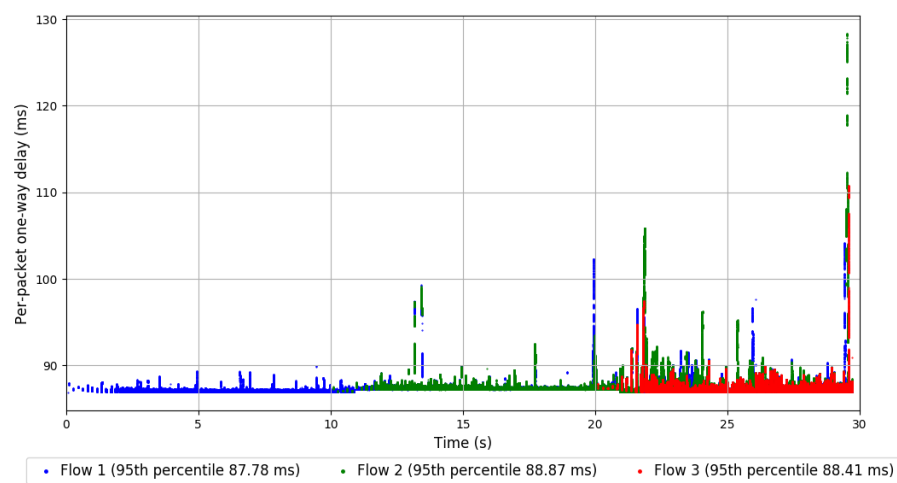
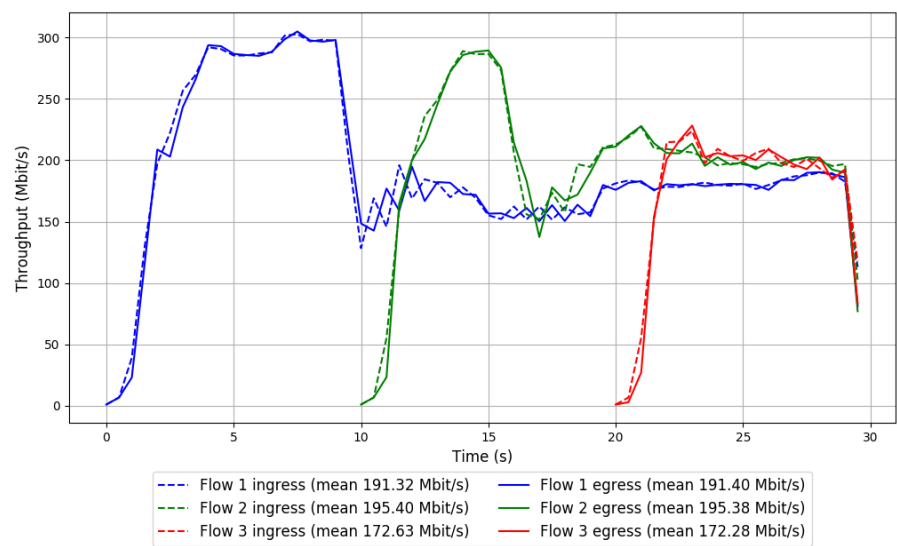
-- Flow 3:

Average throughput: 172.28 Mbit/s

95th percentile per-packet one-way delay: 88.410 ms

Loss rate: 1.97%

Run 2: Report of Indigo-1-128 — Data Link



Run 3: Statistics of Indigo-1-128

Start at: 2018-01-26 09:38:58

End at: 2018-01-26 09:39:28

Below is generated by plot.py at 2018-01-26 15:13:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.28 Mbit/s

95th percentile per-packet one-way delay: 115.130 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 144.02 Mbit/s

95th percentile per-packet one-way delay: 114.832 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 160.31 Mbit/s

95th percentile per-packet one-way delay: 115.453 ms

Loss rate: 0.95%

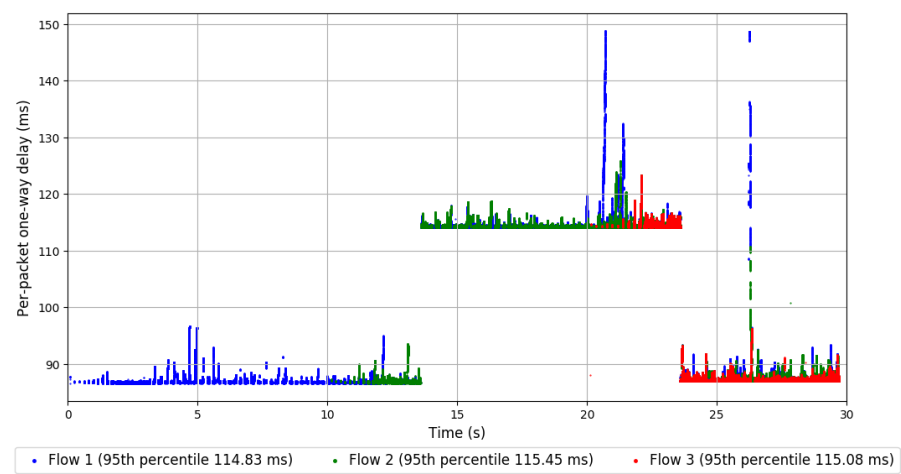
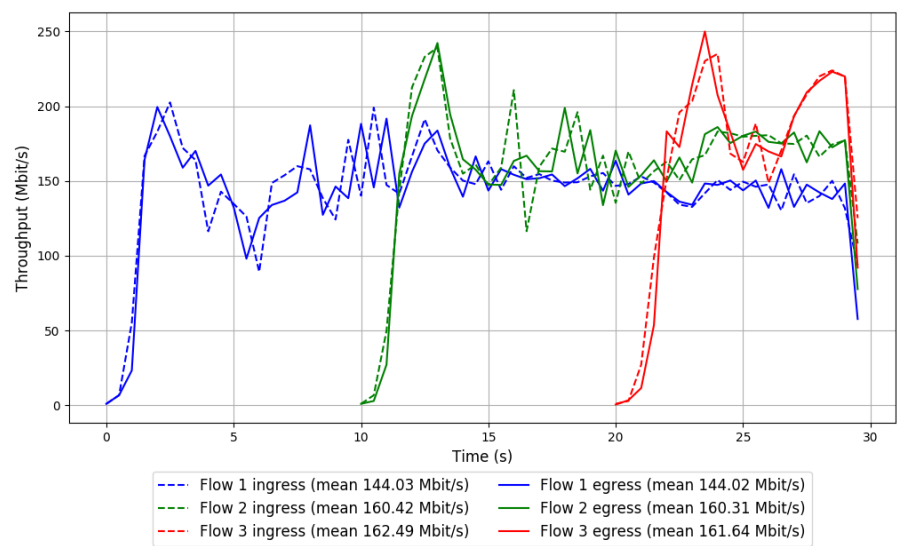
-- Flow 3:

Average throughput: 161.64 Mbit/s

95th percentile per-packet one-way delay: 115.076 ms

Loss rate: 2.29%

Run 3: Report of Indigo-1-128 — Data Link



Run 4: Statistics of Indigo-1-128

Start at: 2018-01-26 09:54:09

End at: 2018-01-26 09:54:39

Below is generated by plot.py at 2018-01-26 15:14:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 351.82 Mbit/s

95th percentile per-packet one-way delay: 90.629 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 166.03 Mbit/s

95th percentile per-packet one-way delay: 103.046 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 213.81 Mbit/s

95th percentile per-packet one-way delay: 88.823 ms

Loss rate: 0.89%

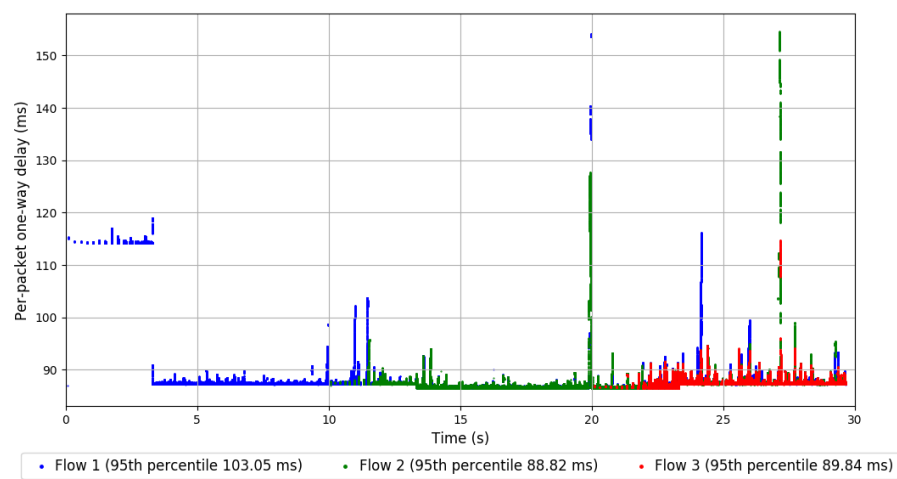
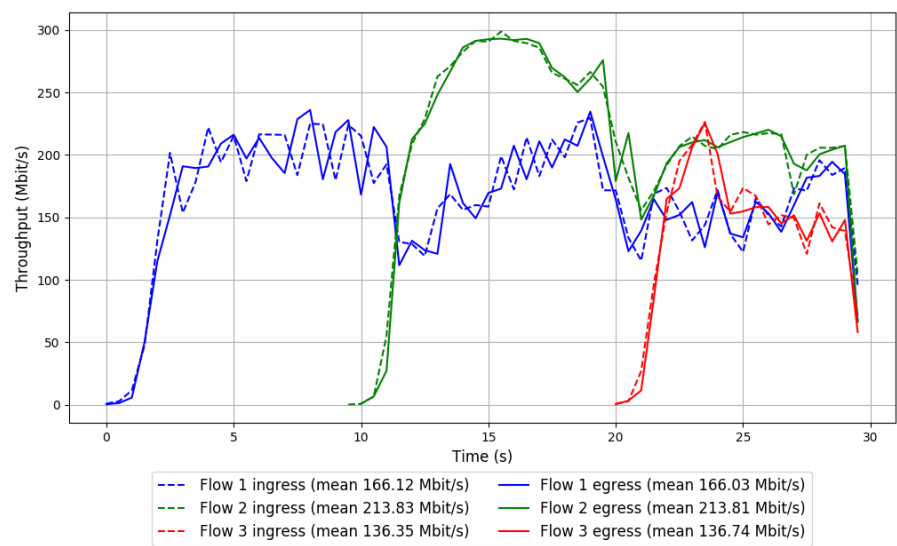
-- Flow 3:

Average throughput: 136.74 Mbit/s

95th percentile per-packet one-way delay: 89.842 ms

Loss rate: 1.49%

Run 4: Report of Indigo-1-128 — Data Link



Run 5: Statistics of Indigo-1-128

Start at: 2018-01-26 10:08:55

End at: 2018-01-26 10:09:25

Below is generated by plot.py at 2018-01-26 15:14:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 354.33 Mbit/s

95th percentile per-packet one-way delay: 114.387 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 177.40 Mbit/s

95th percentile per-packet one-way delay: 114.398 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 186.04 Mbit/s

95th percentile per-packet one-way delay: 114.485 ms

Loss rate: 0.88%

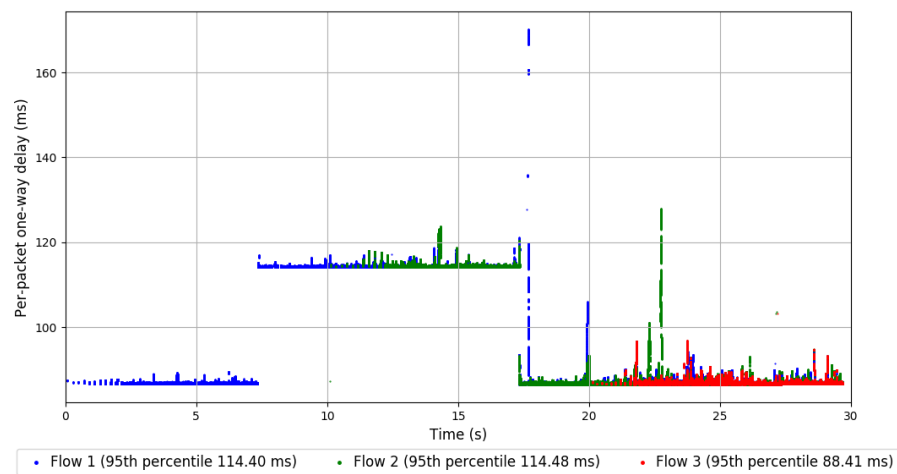
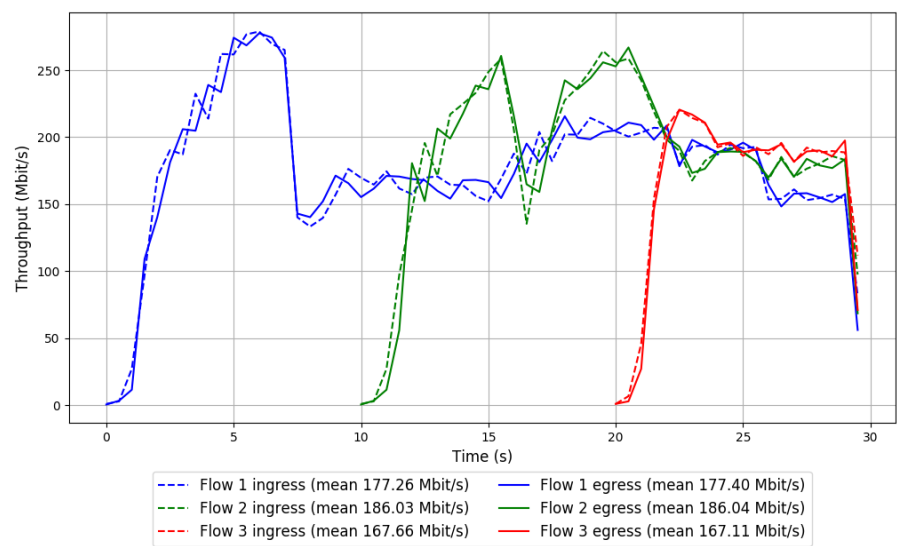
-- Flow 3:

Average throughput: 167.11 Mbit/s

95th percentile per-packet one-way delay: 88.410 ms

Loss rate: 2.13%

Run 5: Report of Indigo-1-128 — Data Link



Run 6: Statistics of Indigo-1-128

Start at: 2018-01-26 10:24:21

End at: 2018-01-26 10:24:51

Below is generated by plot.py at 2018-01-26 15:14:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 132.07 Mbit/s

95th percentile per-packet one-way delay: 114.257 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 114.491 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 198.15 Mbit/s

95th percentile per-packet one-way delay: 114.254 ms

Loss rate: 0.82%

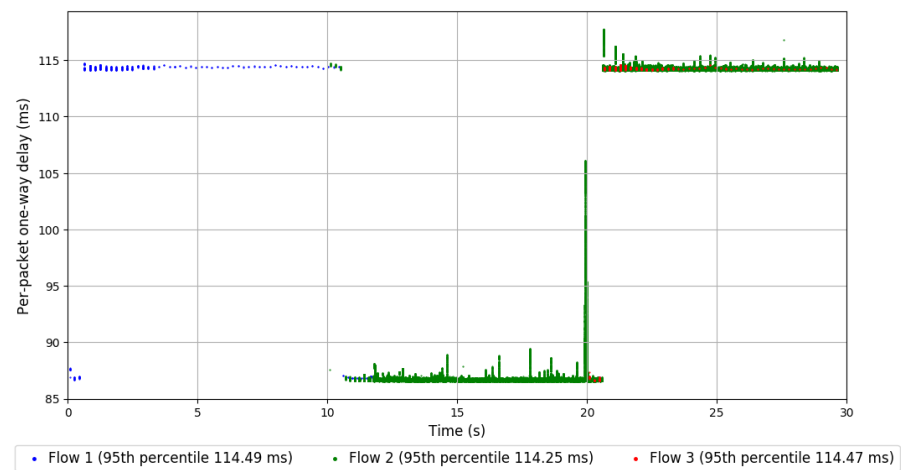
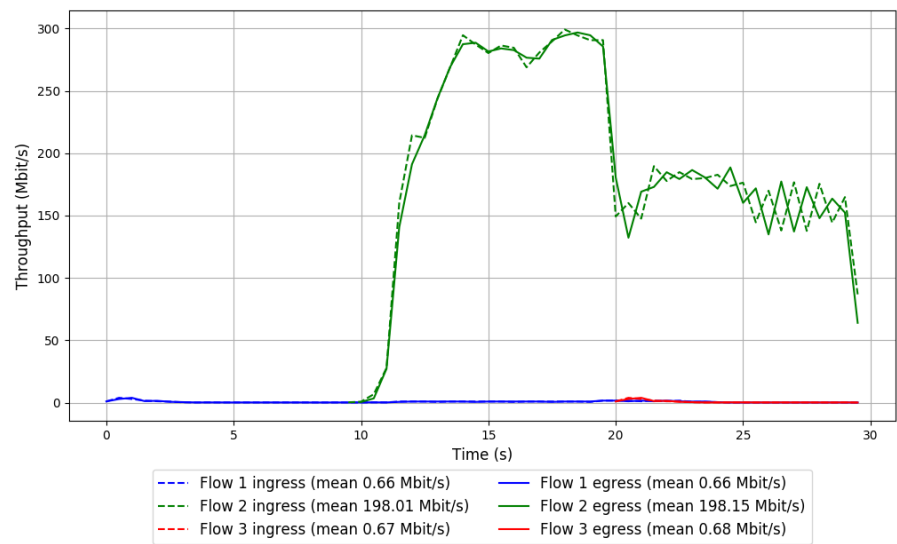
-- Flow 3:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 114.467 ms

Loss rate: 0.37%

Run 6: Report of Indigo-1-128 — Data Link



Run 7: Statistics of Indigo-1-128

Start at: 2018-01-26 10:39:21

End at: 2018-01-26 10:39:51

Below is generated by plot.py at 2018-01-26 15:15:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 389.30 Mbit/s

95th percentile per-packet one-way delay: 88.855 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 219.06 Mbit/s

95th percentile per-packet one-way delay: 87.587 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 173.16 Mbit/s

95th percentile per-packet one-way delay: 91.174 ms

Loss rate: 0.71%

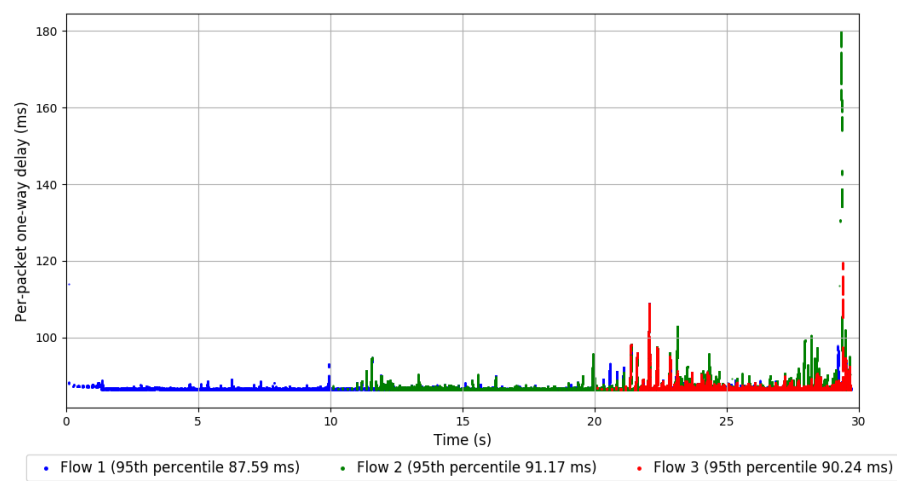
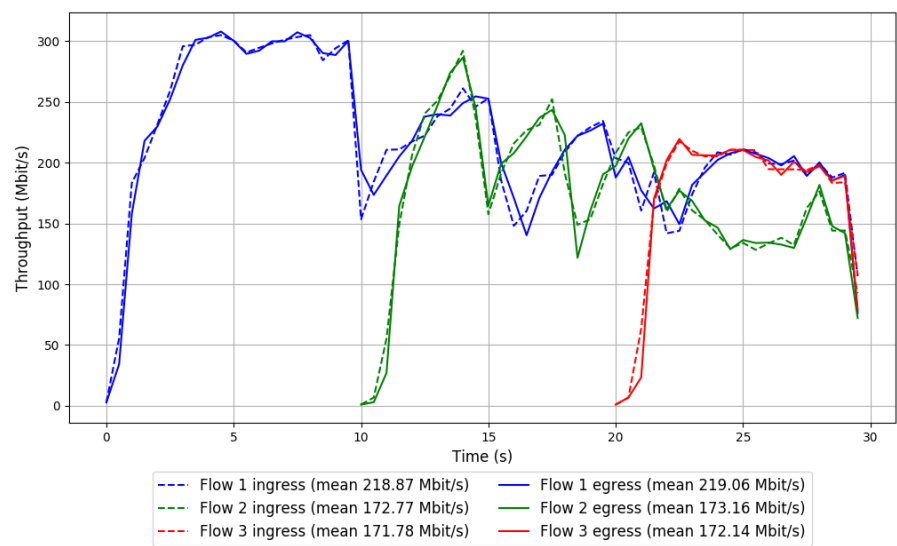
-- Flow 3:

Average throughput: 172.14 Mbit/s

95th percentile per-packet one-way delay: 90.240 ms

Loss rate: 1.64%

Run 7: Report of Indigo-1-128 — Data Link



Run 8: Statistics of Indigo-1-128

Start at: 2018-01-26 10:54:37

End at: 2018-01-26 10:55:07

Below is generated by plot.py at 2018-01-26 15:15:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 337.02 Mbit/s

95th percentile per-packet one-way delay: 114.693 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 170.57 Mbit/s

95th percentile per-packet one-way delay: 114.533 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 176.38 Mbit/s

95th percentile per-packet one-way delay: 115.051 ms

Loss rate: 0.93%

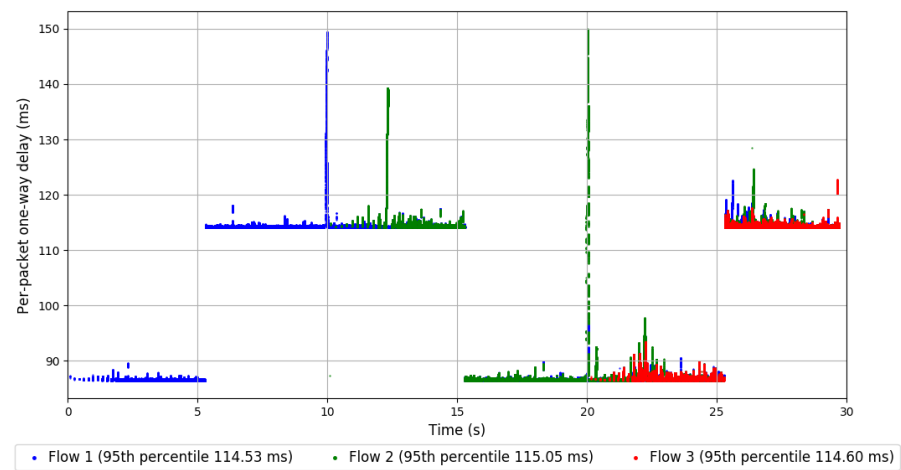
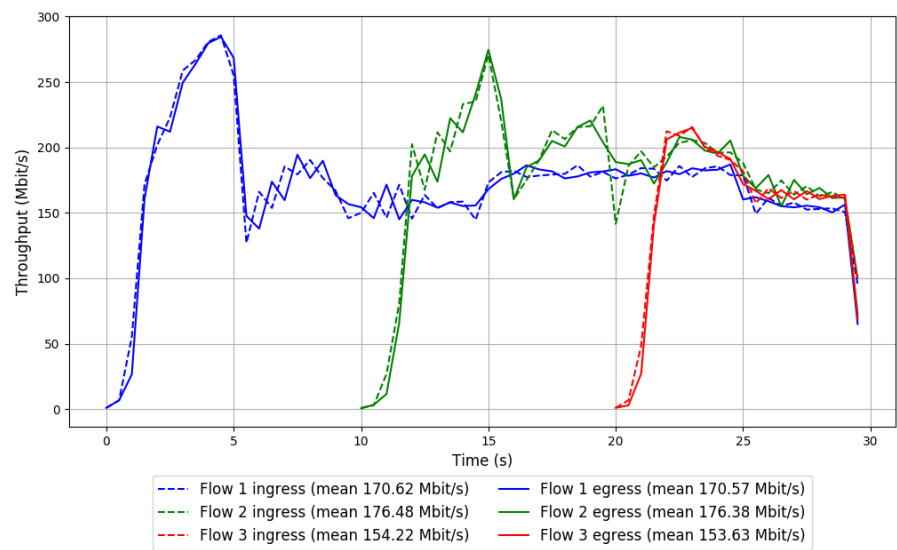
-- Flow 3:

Average throughput: 153.63 Mbit/s

95th percentile per-packet one-way delay: 114.602 ms

Loss rate: 2.17%

Run 8: Report of Indigo-1-128 — Data Link



Run 9: Statistics of Indigo-1-128

Start at: 2018-01-26 11:10:07

End at: 2018-01-26 11:10:37

Below is generated by plot.py at 2018-01-26 15:15:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 289.17 Mbit/s

95th percentile per-packet one-way delay: 118.142 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 153.98 Mbit/s

95th percentile per-packet one-way delay: 115.903 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 131.77 Mbit/s

95th percentile per-packet one-way delay: 120.639 ms

Loss rate: 1.07%

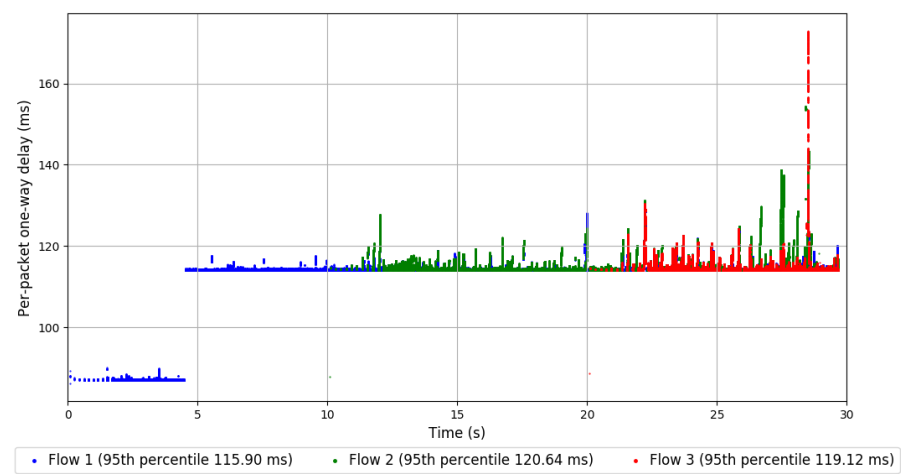
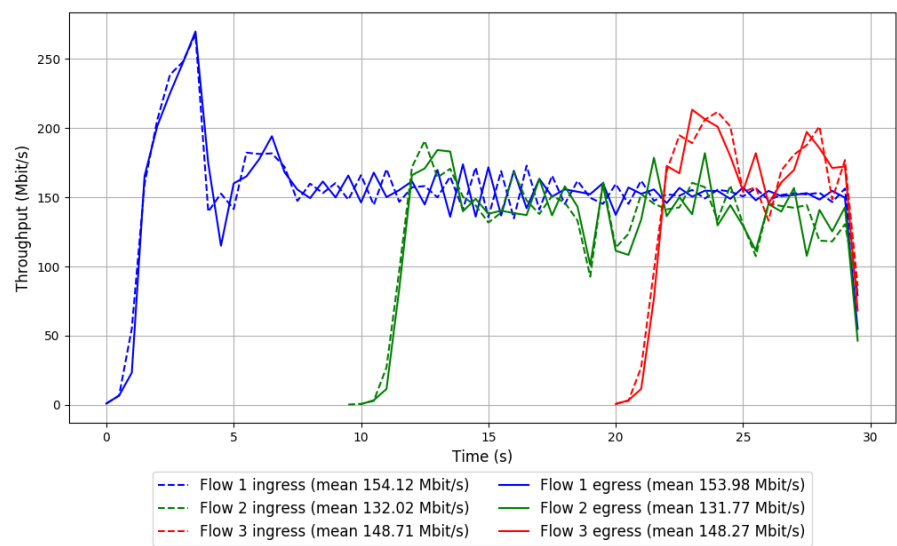
-- Flow 3:

Average throughput: 148.27 Mbit/s

95th percentile per-packet one-way delay: 119.118 ms

Loss rate: 1.91%

Run 9: Report of Indigo-1-128 — Data Link



Run 10: Statistics of Indigo-1-128

Start at: 2018-01-26 11:25:43

End at: 2018-01-26 11:26:13

Below is generated by plot.py at 2018-01-26 15:15:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 340.03 Mbit/s

95th percentile per-packet one-way delay: 114.289 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 166.25 Mbit/s

95th percentile per-packet one-way delay: 114.315 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 185.00 Mbit/s

95th percentile per-packet one-way delay: 114.327 ms

Loss rate: 0.88%

-- Flow 3:

Average throughput: 160.08 Mbit/s

95th percentile per-packet one-way delay: 89.387 ms

Loss rate: 1.86%

Run 10: Report of Indigo-1-128 — Data Link

