

Pantheon Report

Generated at 2018-01-26 16:08:44 (UTC).

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

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.

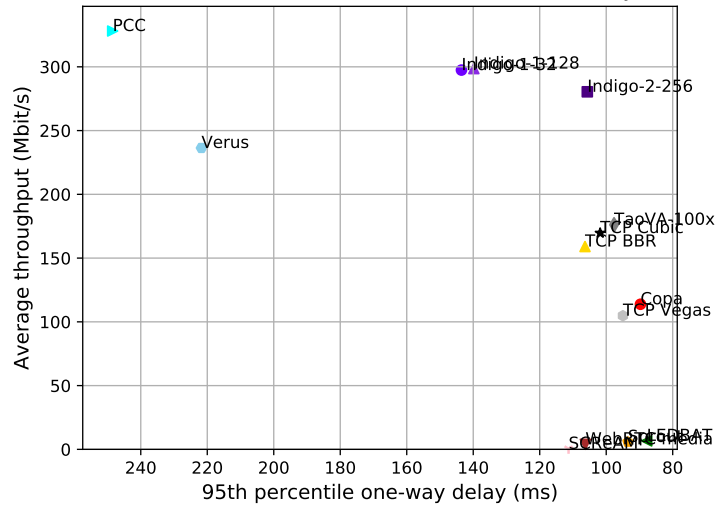
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

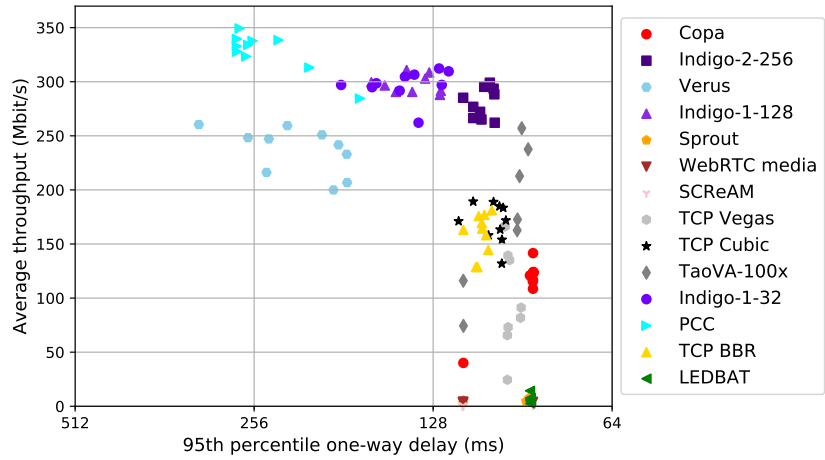
Git summary:

```
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 @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
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 @ f1a14bffe749737437f61b1eaeab30b267cde681
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 Iowa Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	73.62	74.51	108.96	103.66	106.48	109.30	0.25	0.27	0.15
TCP Cubic	10	81.91	85.83	92.69	100.81	101.12	103.81	0.45	0.18	0.41
LEDBAT	10	4.04	4.01	2.40	599.85	87.87	87.64	0.67	0.95	1.84
PCC	10	285.49	59.73	8.84	248.11	249.53	225.56	1.31	1.60	1.90
QUIC Cubic	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SCReAM	10	0.22	0.22	0.22	105.94	100.65	92.09	0.03	0.00	0.03
WebRTC media	7	2.12	1.33	0.51	106.29	94.65	94.78	0.05	0.04	0.24
Sprout	10	2.81	3.25	2.54	97.24	93.24	93.16	0.47	0.38	0.04
TaoVA-100x	7	87.04	90.95	118.23	103.32	100.74	95.20	0.04	0.01	0.10
TCP Vegas	9	46.53	66.75	45.23	320.35	93.84	91.60	0.22	0.30	0.08
Verus	10	144.10	102.67	74.87	217.81	215.63	213.31	1.83	1.77	2.44
Copa	10	65.69	61.54	30.41	89.63	89.78	100.64	0.03	0.00	0.01
Indigo-2-256	10	164.10	140.90	71.94	102.92	107.97	113.83	0.06	0.08	0.02
Indigo-1-32	10	171.03	143.74	97.04	133.85	144.31	155.48	0.09	0.11	0.28
Indigo-1-128	10	171.28	152.10	82.80	133.89	140.86	149.92	0.08	0.11	0.20

Run 1: Statistics of TCP BBR

Start at: 2018-01-26 11:38:17

End at: 2018-01-26 11:38:48

Below is generated by plot.py at 2018-01-26 15:18:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.63 Mbit/s

95th percentile per-packet one-way delay: 107.806 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 61.73 Mbit/s

95th percentile per-packet one-way delay: 105.277 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.61 Mbit/s

95th percentile per-packet one-way delay: 108.247 ms

Loss rate: 0.00%

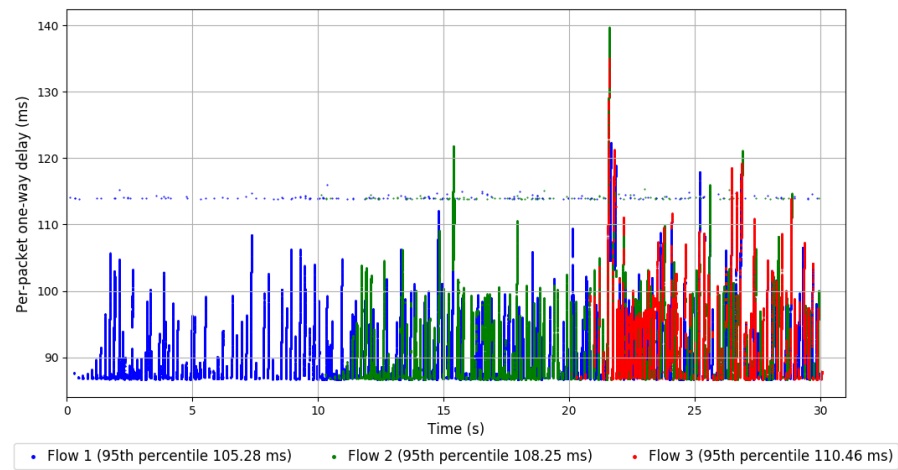
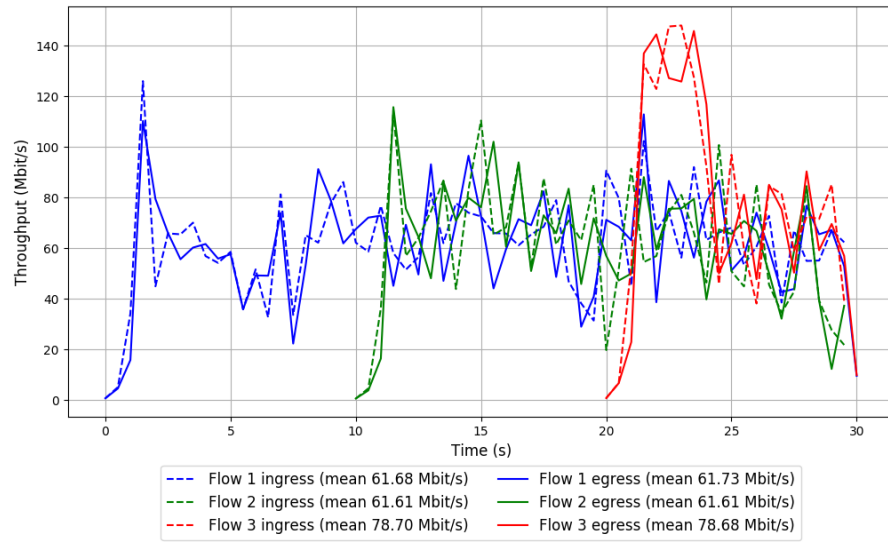
-- Flow 3:

Average throughput: 78.68 Mbit/s

95th percentile per-packet one-way delay: 110.464 ms

Loss rate: 0.02%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-26 11:53:13

End at: 2018-01-26 11:53:43

Below is generated by plot.py at 2018-01-26 15:19:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 158.11 Mbit/s

95th percentile per-packet one-way delay: 104.269 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 74.15 Mbit/s

95th percentile per-packet one-way delay: 103.500 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 66.83 Mbit/s

95th percentile per-packet one-way delay: 104.566 ms

Loss rate: 1.59%

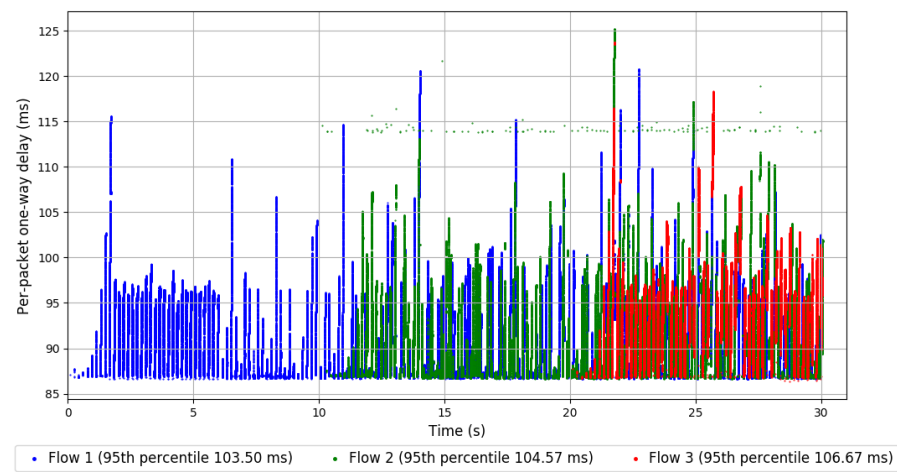
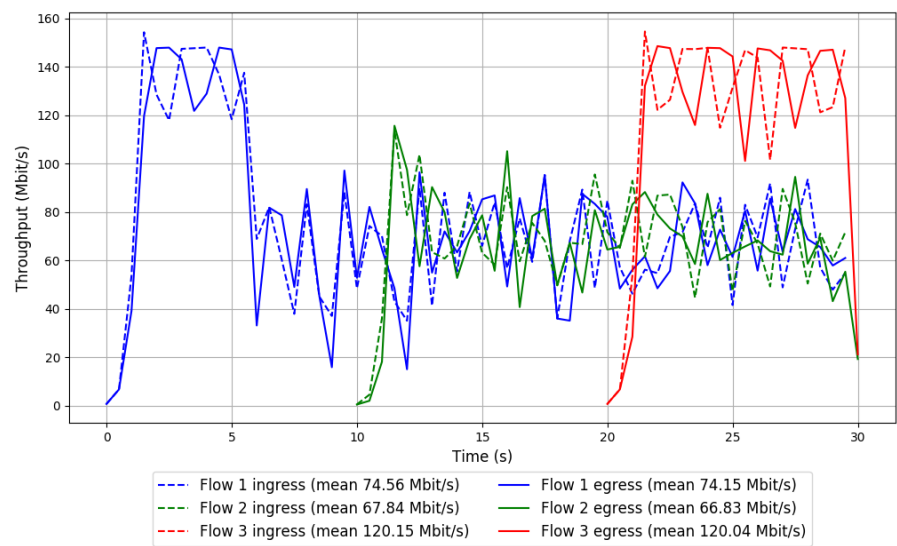
-- Flow 3:

Average throughput: 120.04 Mbit/s

95th percentile per-packet one-way delay: 106.668 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-26 12:07:49

End at: 2018-01-26 12:08:19

Below is generated by plot.py at 2018-01-26 15:19:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 169.36 Mbit/s

95th percentile per-packet one-way delay: 105.982 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 87.07 Mbit/s

95th percentile per-packet one-way delay: 102.414 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 65.80 Mbit/s

95th percentile per-packet one-way delay: 103.261 ms

Loss rate: 0.00%

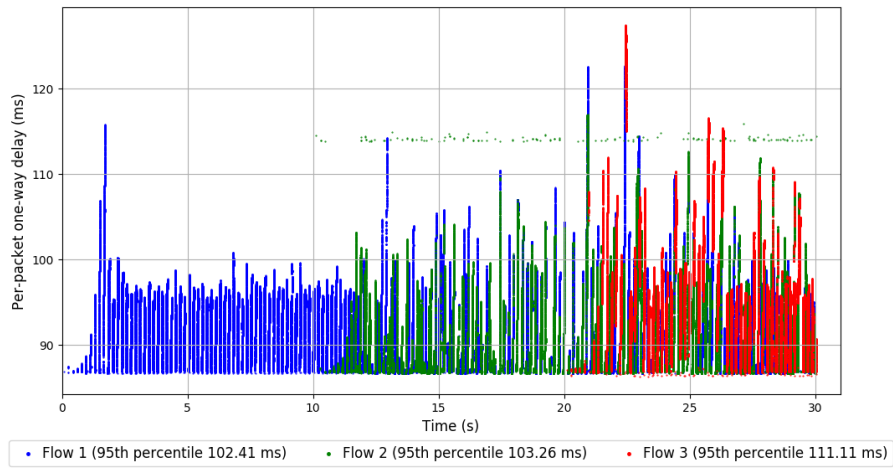
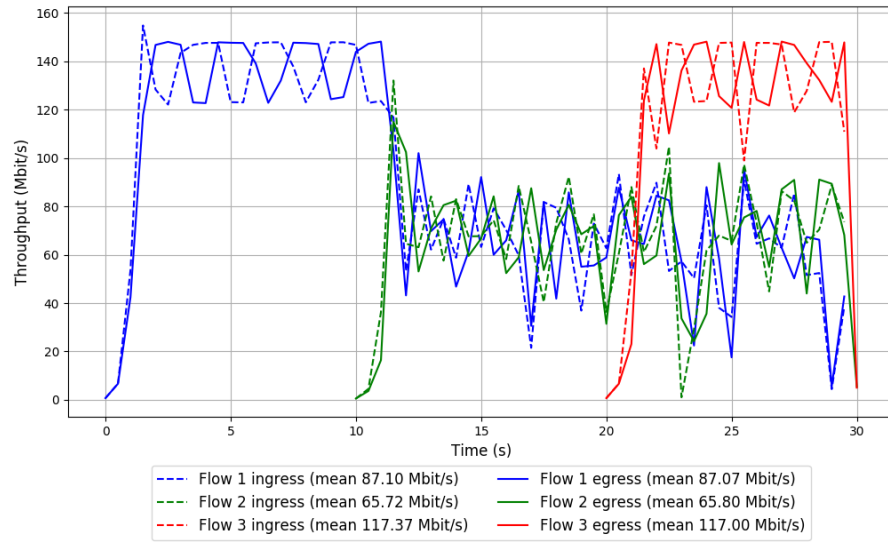
-- Flow 3:

Average throughput: 117.00 Mbit/s

95th percentile per-packet one-way delay: 111.107 ms

Loss rate: 0.31%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-26 12:22:36

End at: 2018-01-26 12:23:06

Below is generated by plot.py at 2018-01-26 15:19:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 175.74 Mbit/s

95th percentile per-packet one-way delay: 107.309 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 71.01 Mbit/s

95th percentile per-packet one-way delay: 103.977 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 101.37 Mbit/s

95th percentile per-packet one-way delay: 111.721 ms

Loss rate: 0.04%

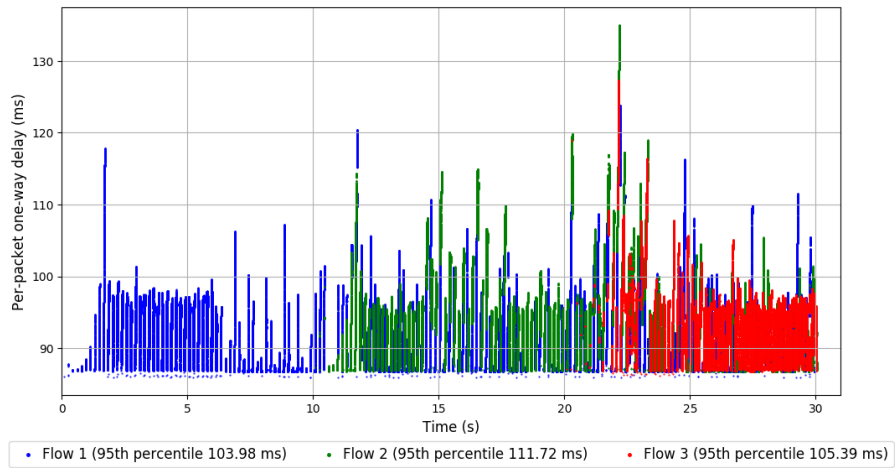
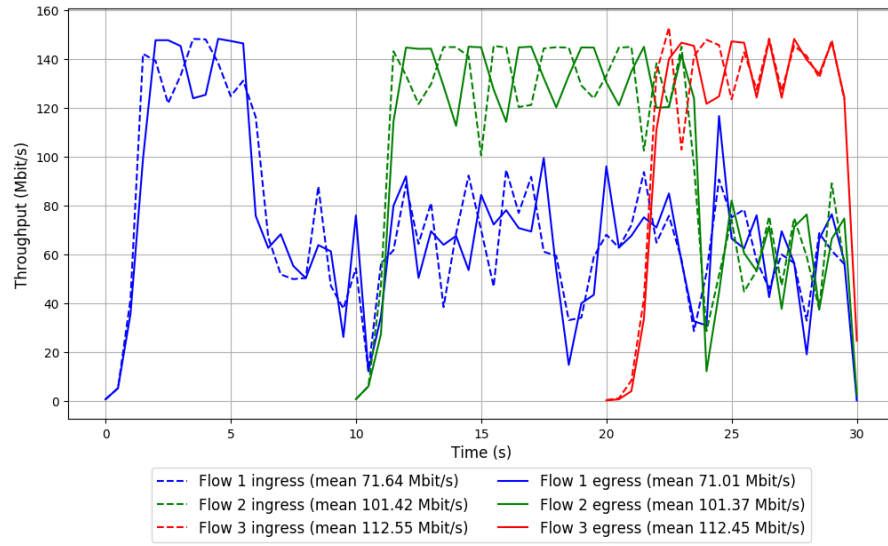
-- Flow 3:

Average throughput: 112.45 Mbit/s

95th percentile per-packet one-way delay: 105.395 ms

Loss rate: 0.01%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-26 12:37:16

End at: 2018-01-26 12:37:46

Below is generated by plot.py at 2018-01-26 15:19:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.78 Mbit/s

95th percentile per-packet one-way delay: 108.403 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 59.18 Mbit/s

95th percentile per-packet one-way delay: 103.498 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 58.64 Mbit/s

95th percentile per-packet one-way delay: 109.802 ms

Loss rate: 0.63%

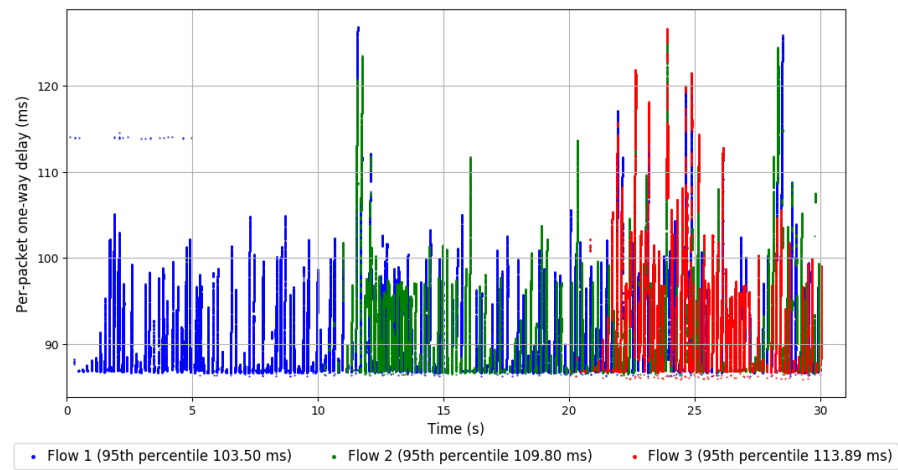
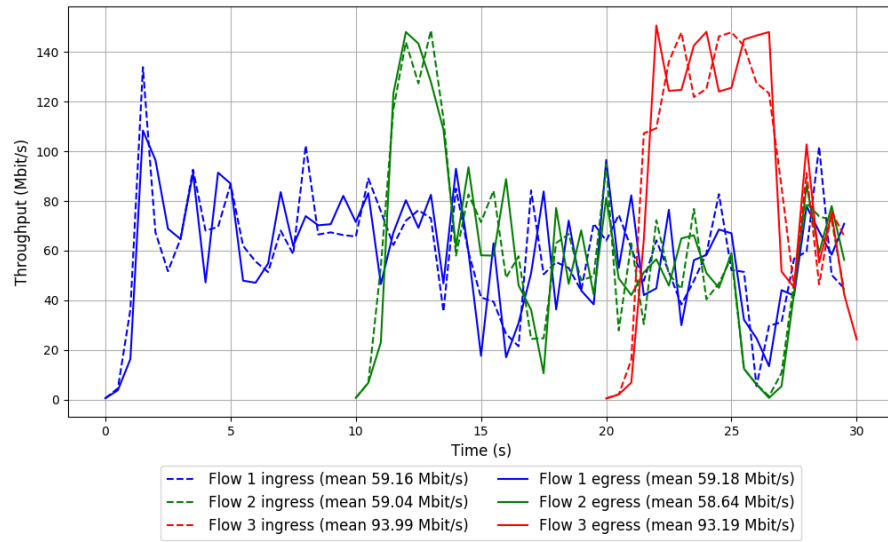
-- Flow 3:

Average throughput: 93.19 Mbit/s

95th percentile per-packet one-way delay: 113.885 ms

Loss rate: 0.73%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-26 12:51:44

End at: 2018-01-26 12:52:14

Below is generated by plot.py at 2018-01-26 15:19:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 176.97 Mbit/s

95th percentile per-packet one-way delay: 104.957 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 73.96 Mbit/s

95th percentile per-packet one-way delay: 104.086 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 95.98 Mbit/s

95th percentile per-packet one-way delay: 102.975 ms

Loss rate: 0.00%

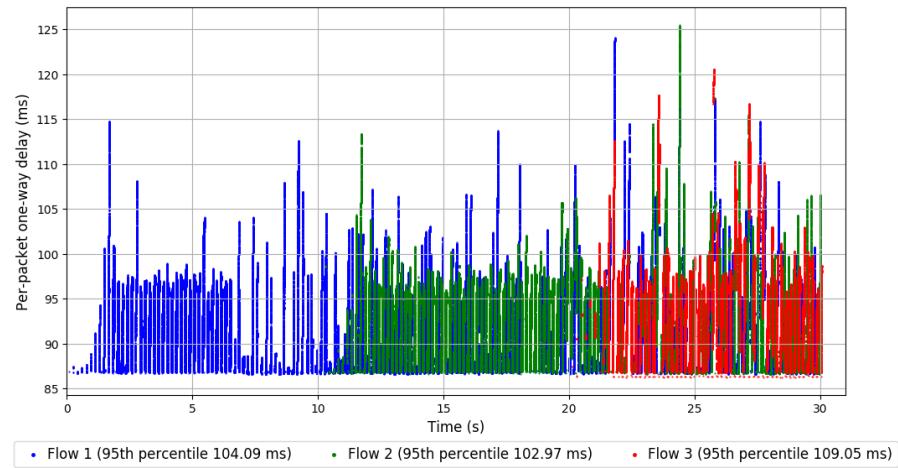
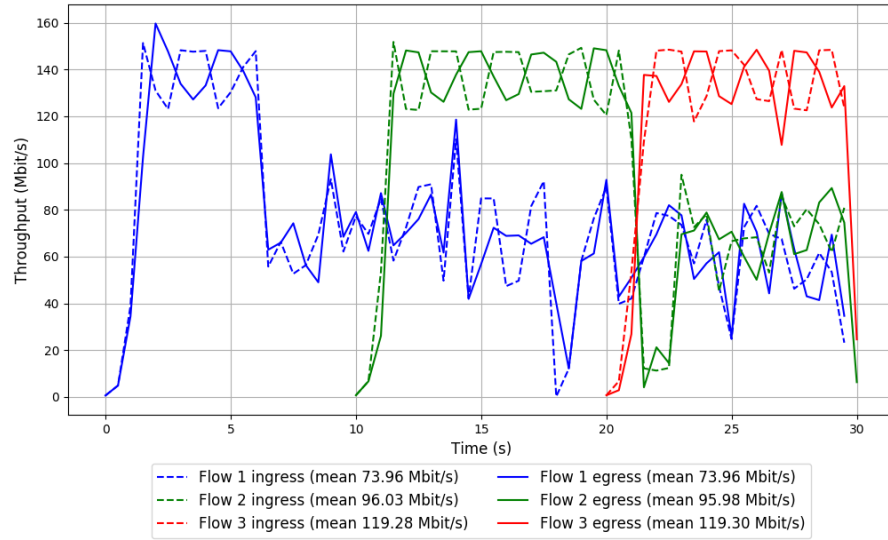
-- Flow 3:

Average throughput: 119.30 Mbit/s

95th percentile per-packet one-way delay: 109.047 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-26 13:06:28

End at: 2018-01-26 13:06:58

Below is generated by plot.py at 2018-01-26 15:19:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 181.17 Mbit/s

95th percentile per-packet one-way delay: 101.988 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 102.20 Mbit/s

95th percentile per-packet one-way delay: 100.204 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 66.83 Mbit/s

95th percentile per-packet one-way delay: 102.677 ms

Loss rate: 0.00%

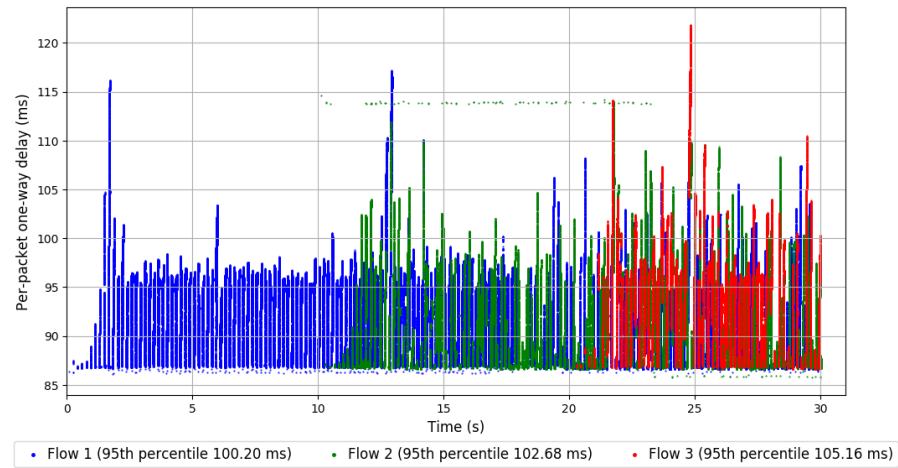
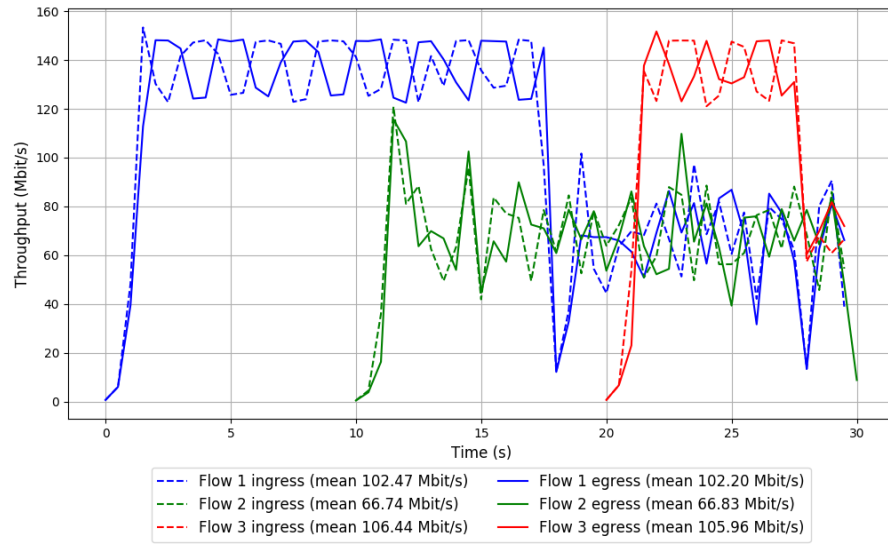
-- Flow 3:

Average throughput: 105.96 Mbit/s

95th percentile per-packet one-way delay: 105.157 ms

Loss rate: 0.35%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-26 13:21:15

End at: 2018-01-26 13:21:45

Below is generated by plot.py at 2018-01-26 15:19:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 163.03 Mbit/s

95th percentile per-packet one-way delay: 113.846 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 57.12 Mbit/s

95th percentile per-packet one-way delay: 108.491 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 102.72 Mbit/s

95th percentile per-packet one-way delay: 113.255 ms

Loss rate: 0.00%

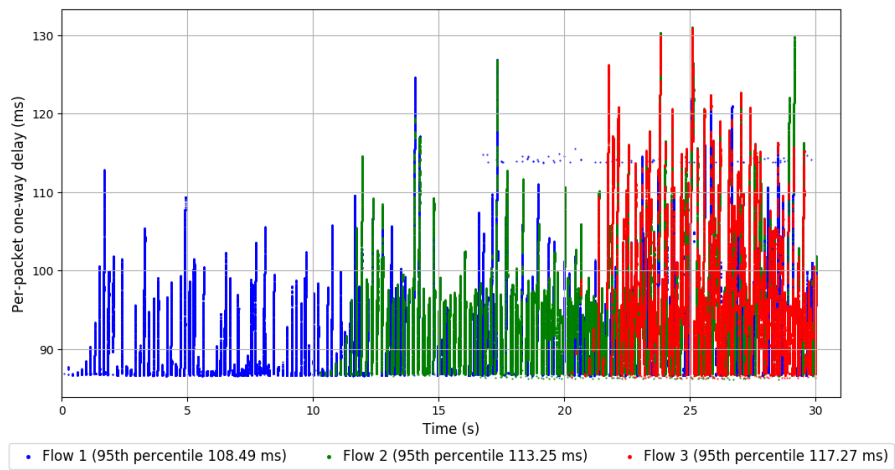
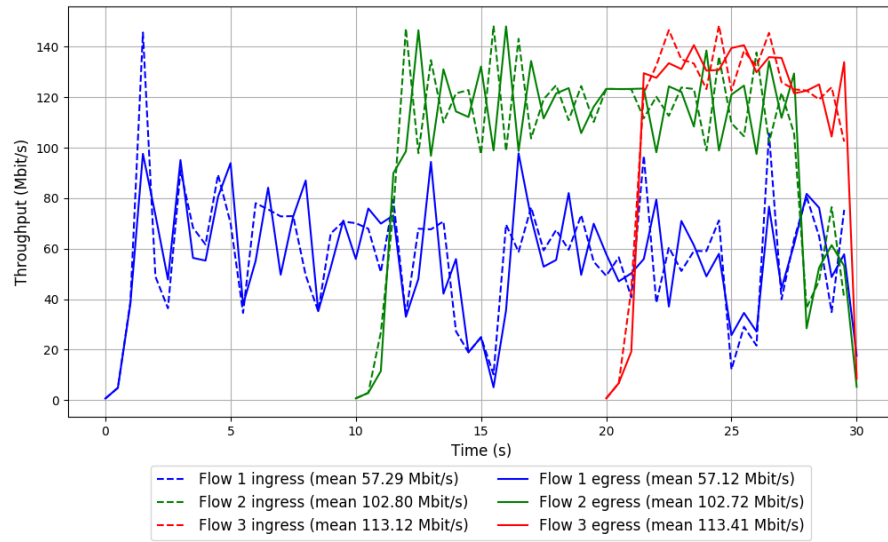
-- Flow 3:

Average throughput: 113.41 Mbit/s

95th percentile per-packet one-way delay: 117.268 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-26 13:36:06

End at: 2018-01-26 13:36:36

Below is generated by plot.py at 2018-01-26 15:21:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 144.52 Mbit/s

95th percentile per-packet one-way delay: 103.385 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 65.55 Mbit/s

95th percentile per-packet one-way delay: 102.489 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 58.84 Mbit/s

95th percentile per-packet one-way delay: 103.143 ms

Loss rate: 0.21%

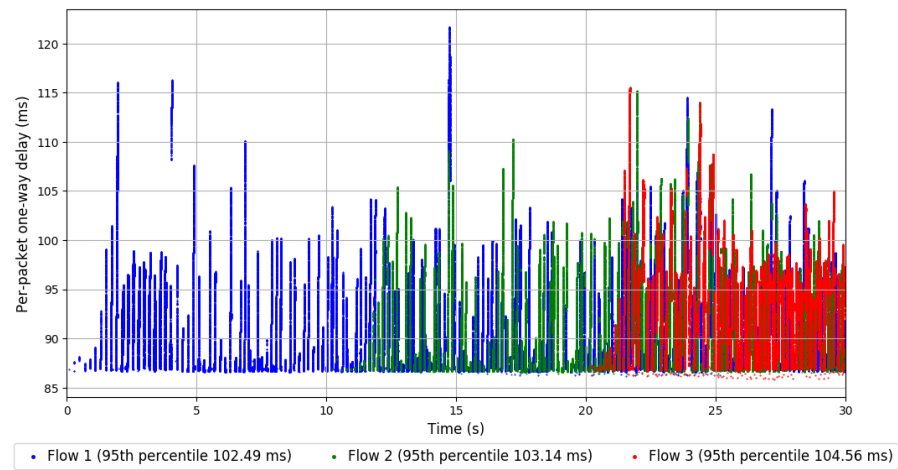
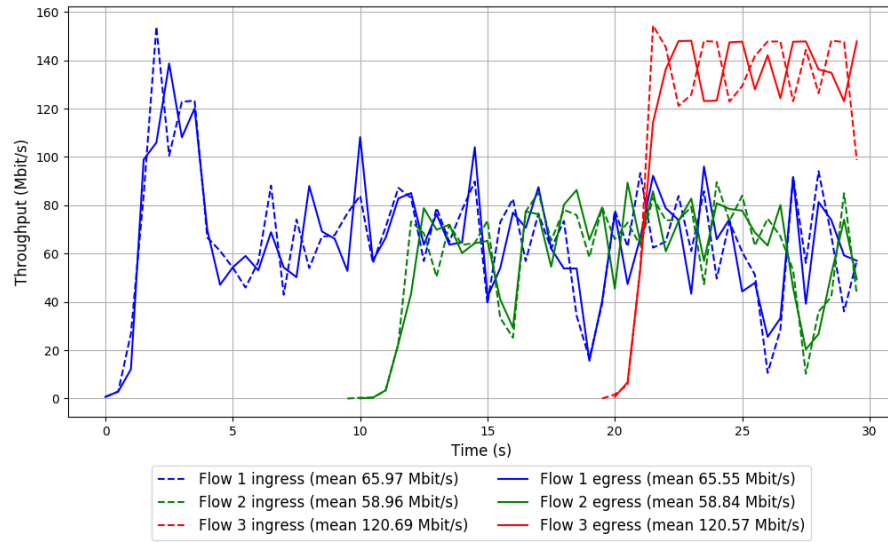
-- Flow 3:

Average throughput: 120.57 Mbit/s

95th percentile per-packet one-way delay: 104.565 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-26 13:50:53

End at: 2018-01-26 13:51:23

Below is generated by plot.py at 2018-01-26 15:21:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 164.24 Mbit/s

95th percentile per-packet one-way delay: 105.842 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 84.23 Mbit/s

95th percentile per-packet one-way delay: 102.711 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 66.44 Mbit/s

95th percentile per-packet one-way delay: 105.151 ms

Loss rate: 0.25%

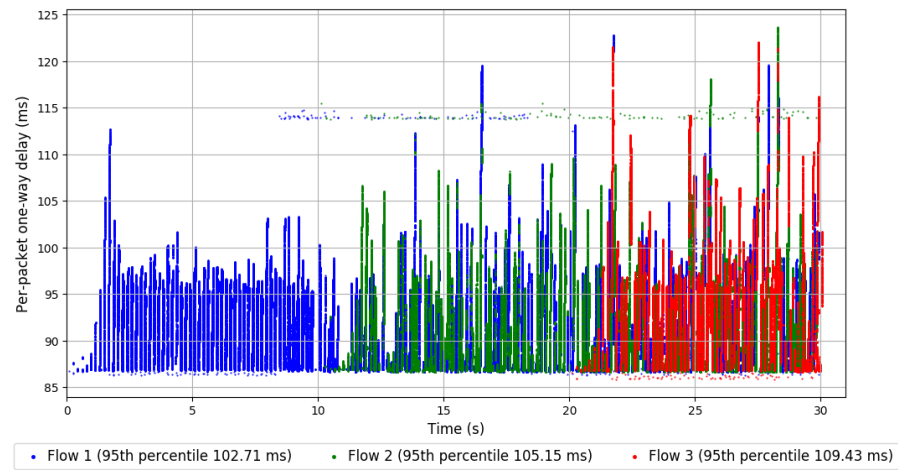
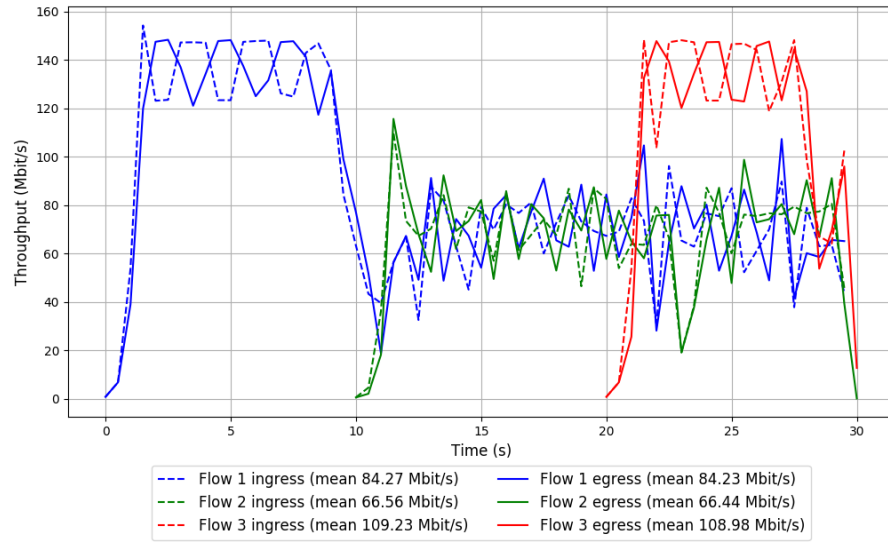
-- Flow 3:

Average throughput: 108.98 Mbit/s

95th percentile per-packet one-way delay: 109.430 ms

Loss rate: 0.09%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-26 11:43:42

End at: 2018-01-26 11:44:12

Below is generated by plot.py at 2018-01-26 15:22:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 189.23 Mbit/s

95th percentile per-packet one-way delay: 109.605 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 77.78 Mbit/s

95th percentile per-packet one-way delay: 108.159 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 109.21 Mbit/s

95th percentile per-packet one-way delay: 108.486 ms

Loss rate: 0.01%

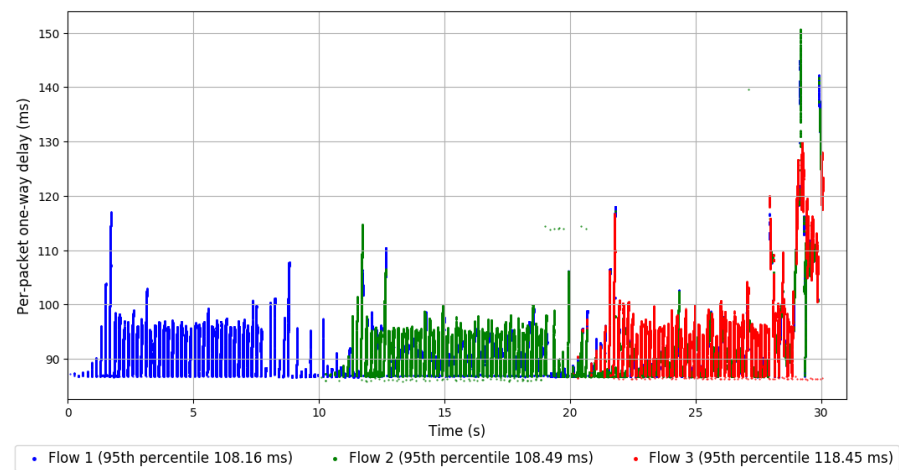
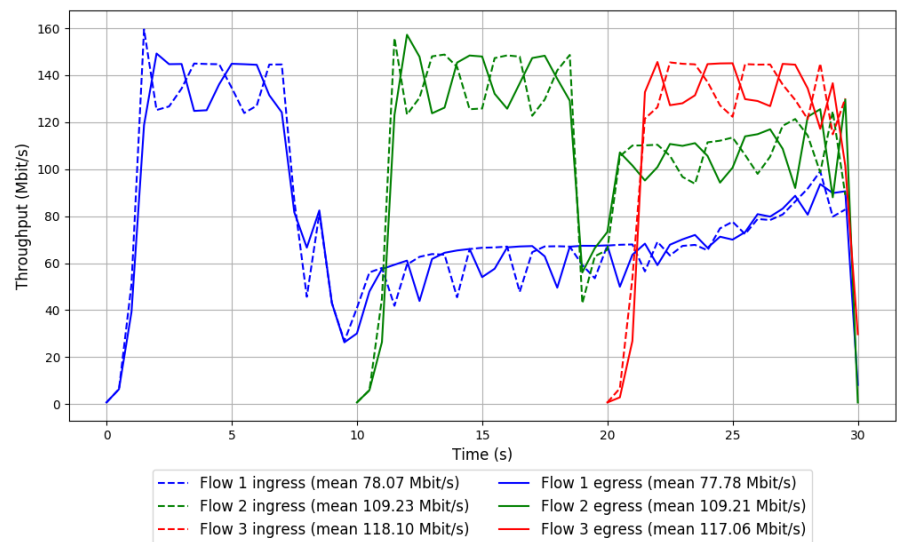
-- Flow 3:

Average throughput: 117.06 Mbit/s

95th percentile per-packet one-way delay: 118.453 ms

Loss rate: 0.69%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-26 11:58:37

End at: 2018-01-26 11:59:07

Below is generated by plot.py at 2018-01-26 15:22:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 183.45 Mbit/s

95th percentile per-packet one-way delay: 97.592 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 90.39 Mbit/s

95th percentile per-packet one-way delay: 97.647 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 80.00 Mbit/s

95th percentile per-packet one-way delay: 97.422 ms

Loss rate: 0.45%

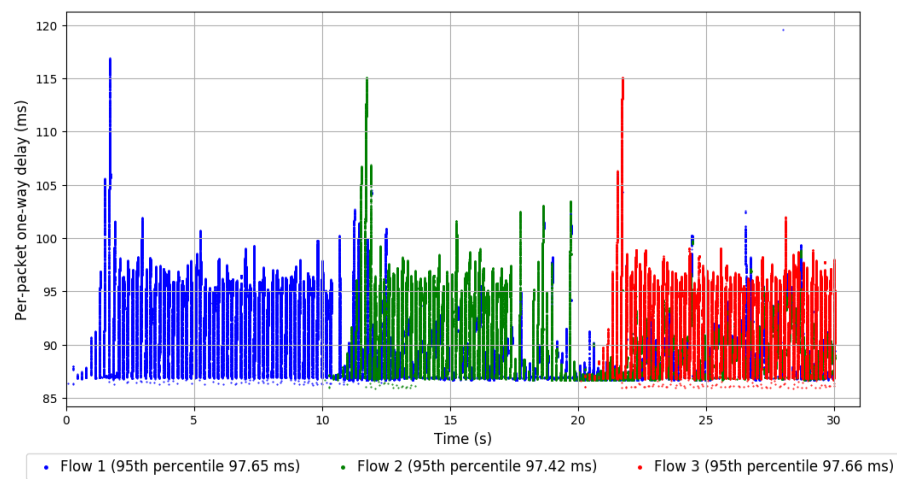
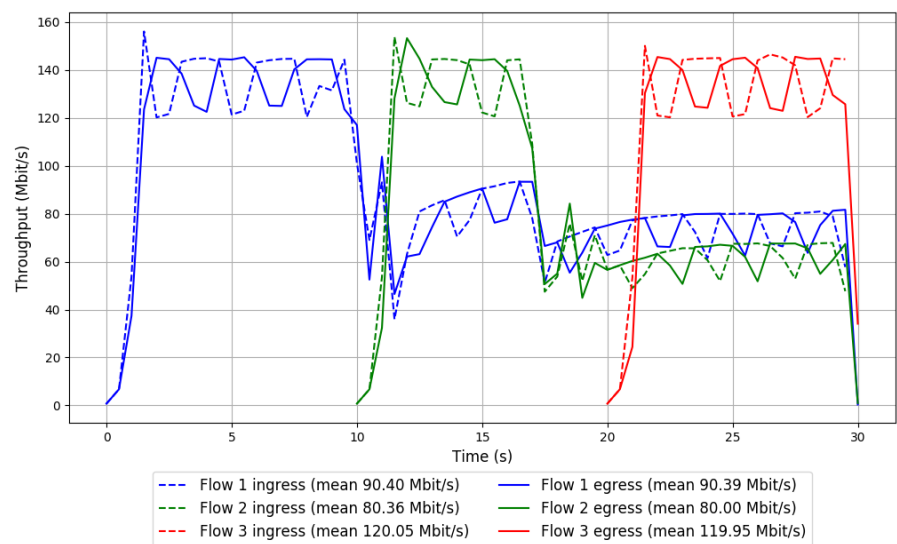
-- Flow 3:

Average throughput: 119.95 Mbit/s

95th percentile per-packet one-way delay: 97.661 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-26 12:13:21

End at: 2018-01-26 12:13:51

Below is generated by plot.py at 2018-01-26 15:22:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 188.88 Mbit/s

95th percentile per-packet one-way delay: 101.305 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 83.10 Mbit/s

95th percentile per-packet one-way delay: 98.790 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 127.97 Mbit/s

95th percentile per-packet one-way delay: 102.538 ms

Loss rate: 0.02%

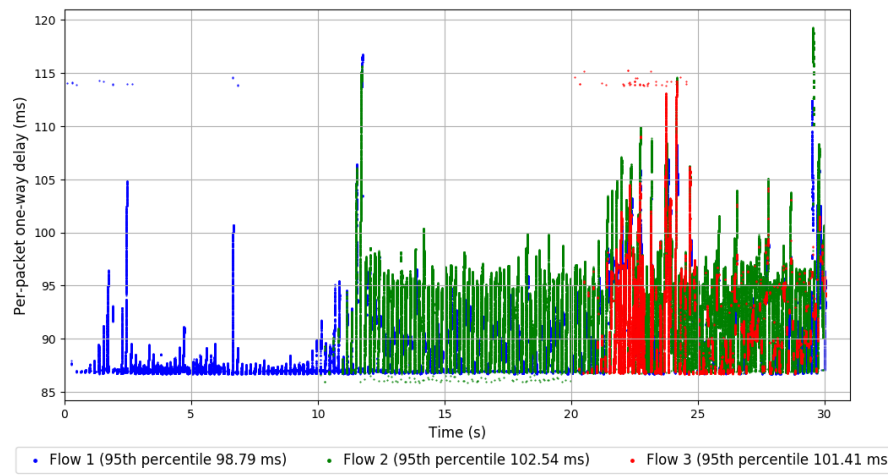
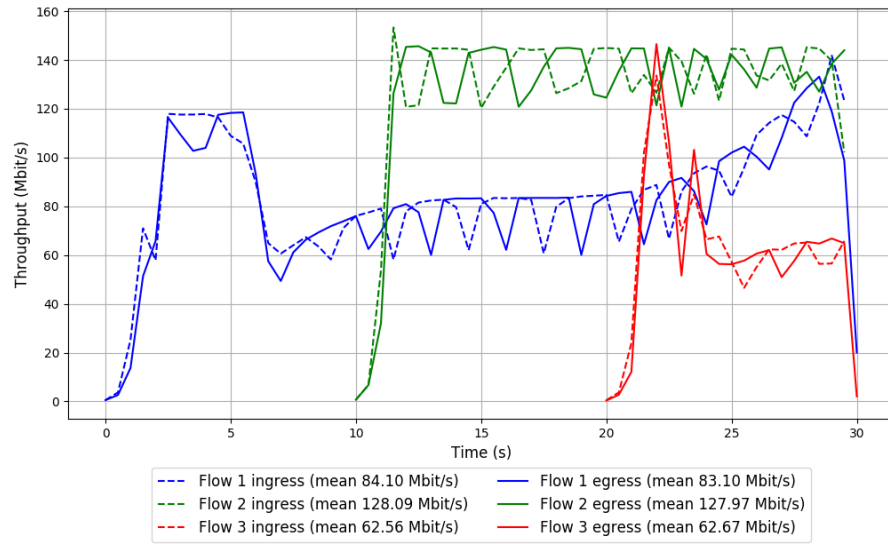
-- Flow 3:

Average throughput: 62.67 Mbit/s

95th percentile per-packet one-way delay: 101.409 ms

Loss rate: 0.02%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-26 12:28:04

End at: 2018-01-26 12:28:34

Below is generated by plot.py at 2018-01-26 15:22:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 171.81 Mbit/s

95th percentile per-packet one-way delay: 96.576 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 106.73 Mbit/s

95th percentile per-packet one-way delay: 96.418 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 68.01 Mbit/s

95th percentile per-packet one-way delay: 95.751 ms

Loss rate: 0.00%

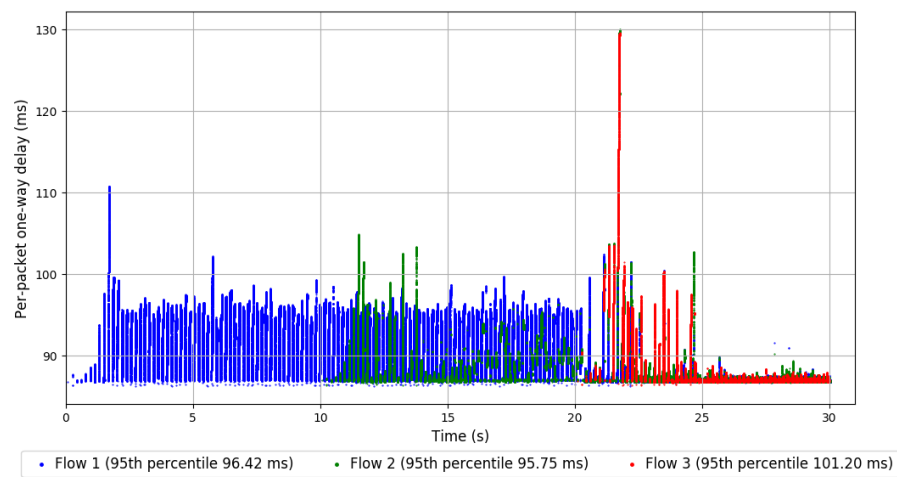
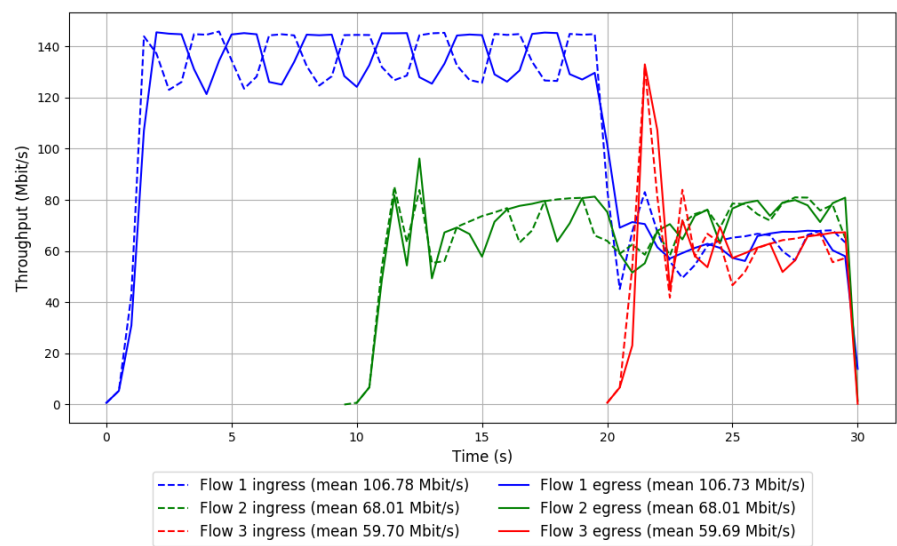
-- Flow 3:

Average throughput: 59.69 Mbit/s

95th percentile per-packet one-way delay: 101.204 ms

Loss rate: 0.01%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-26 12:42:43

End at: 2018-01-26 12:43:13

Below is generated by plot.py at 2018-01-26 15:22:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 163.40 Mbit/s

95th percentile per-packet one-way delay: 98.725 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 79.13 Mbit/s

95th percentile per-packet one-way delay: 98.808 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 66.92 Mbit/s

95th percentile per-packet one-way delay: 98.797 ms

Loss rate: 0.08%

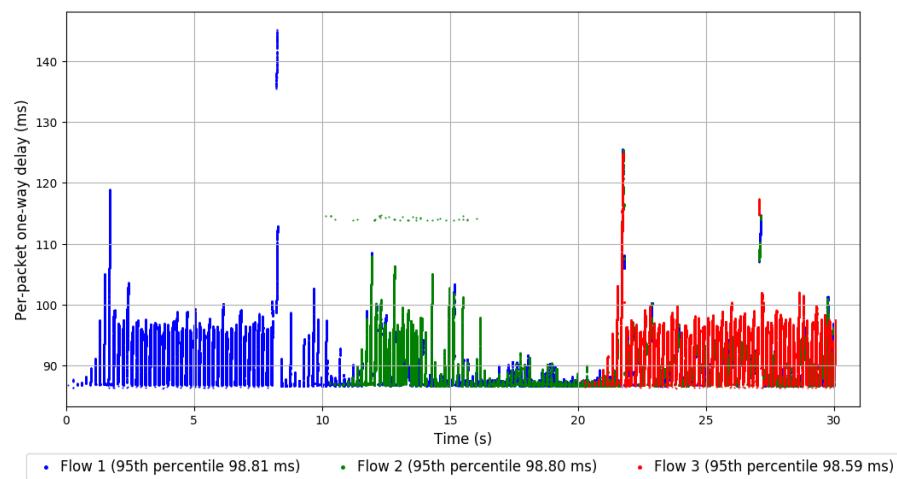
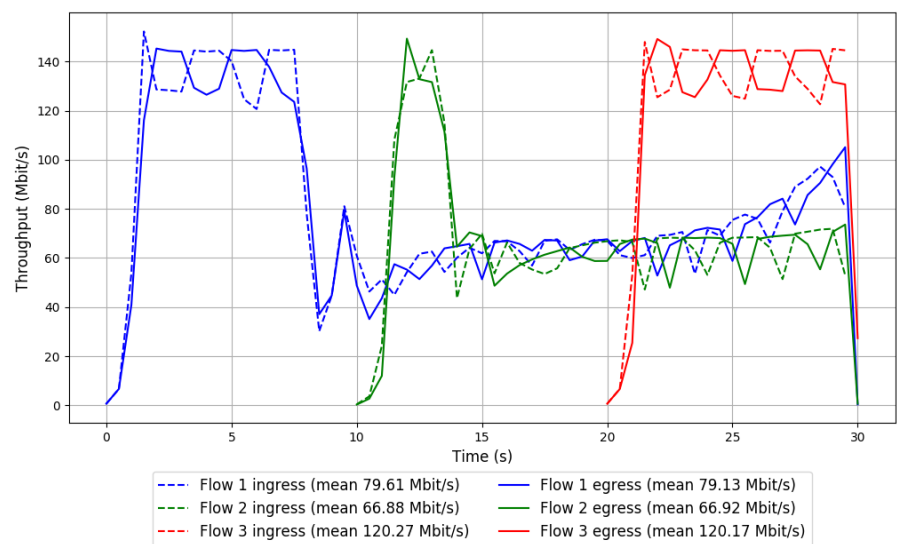
-- Flow 3:

Average throughput: 120.17 Mbit/s

95th percentile per-packet one-way delay: 98.592 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-26 12:57:07

End at: 2018-01-26 12:57:37

Below is generated by plot.py at 2018-01-26 15:22:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 153.98 Mbit/s

95th percentile per-packet one-way delay: 98.042 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 69.29 Mbit/s

95th percentile per-packet one-way delay: 98.687 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 69.80 Mbit/s

95th percentile per-packet one-way delay: 96.866 ms

Loss rate: 0.00%

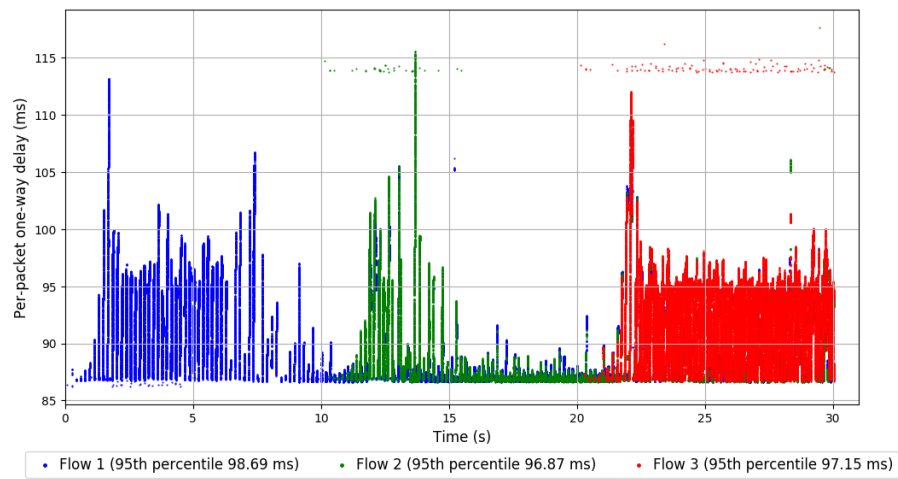
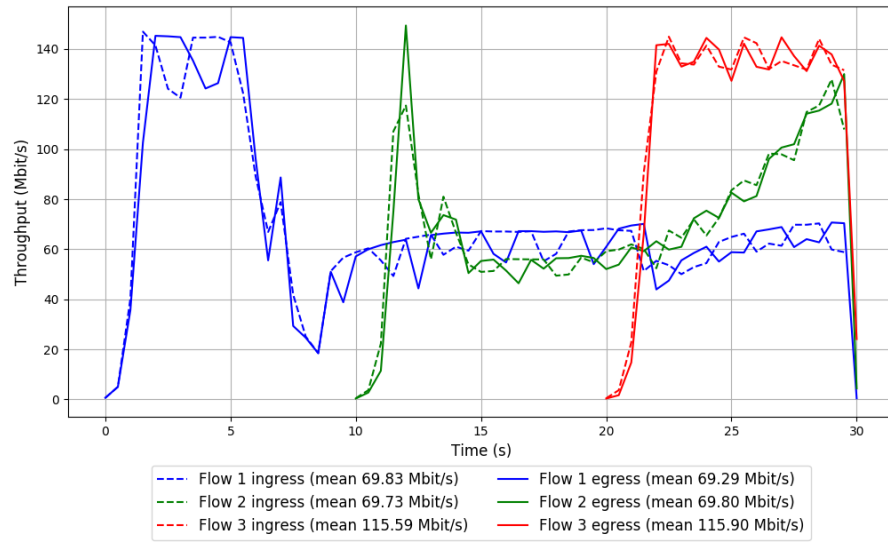
-- Flow 3:

Average throughput: 115.90 Mbit/s

95th percentile per-packet one-way delay: 97.150 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-26 13:11:58

End at: 2018-01-26 13:12:28

Below is generated by plot.py at 2018-01-26 15:24:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 158.00 Mbit/s

95th percentile per-packet one-way delay: 103.299 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 79.86 Mbit/s

95th percentile per-packet one-way delay: 101.371 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 62.25 Mbit/s

95th percentile per-packet one-way delay: 102.827 ms

Loss rate: 0.01%

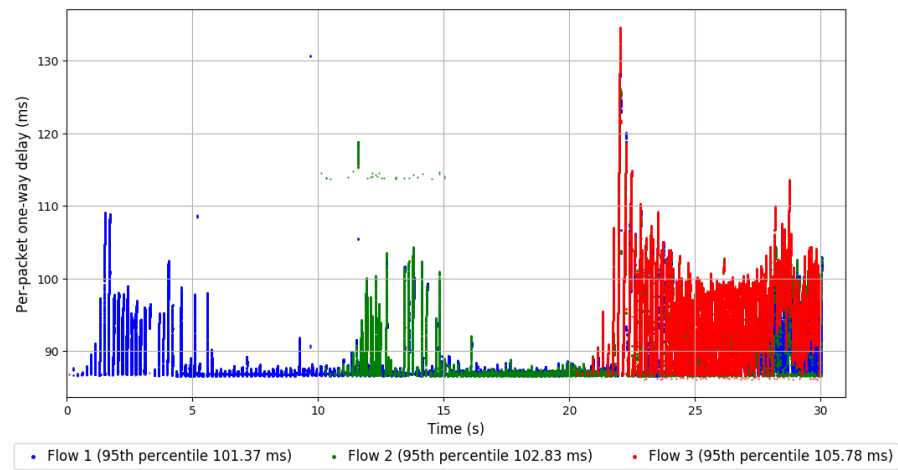
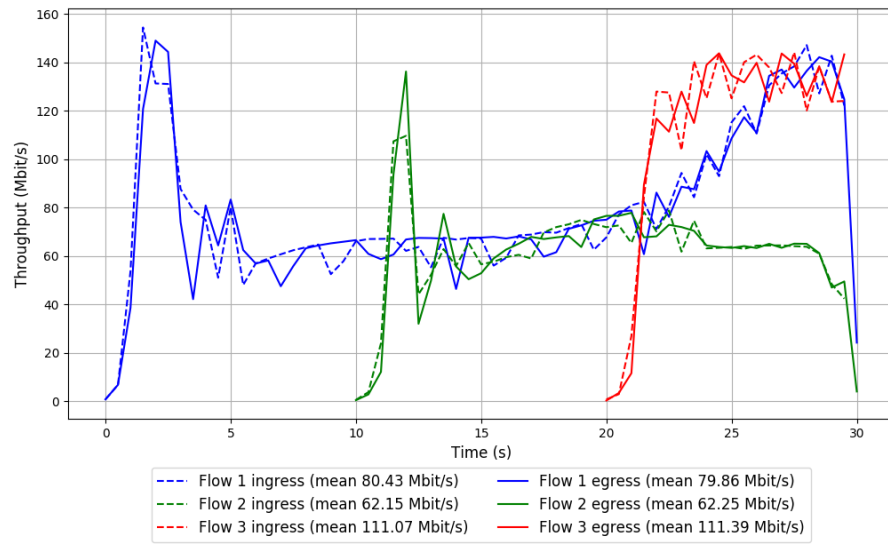
-- Flow 3:

Average throughput: 111.39 Mbit/s

95th percentile per-packet one-way delay: 105.784 ms

Loss rate: 0.20%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-26 13:26:41

End at: 2018-01-26 13:27:11

Below is generated by plot.py at 2018-01-26 15:24:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 131.90 Mbit/s

95th percentile per-packet one-way delay: 98.118 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 66.00 Mbit/s

95th percentile per-packet one-way delay: 96.480 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 98.43 Mbit/s

95th percentile per-packet one-way delay: 98.475 ms

Loss rate: 0.73%

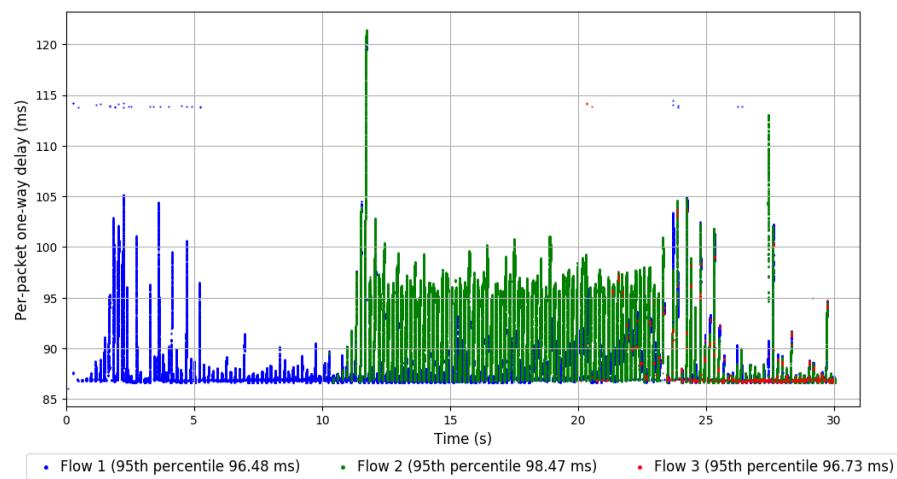
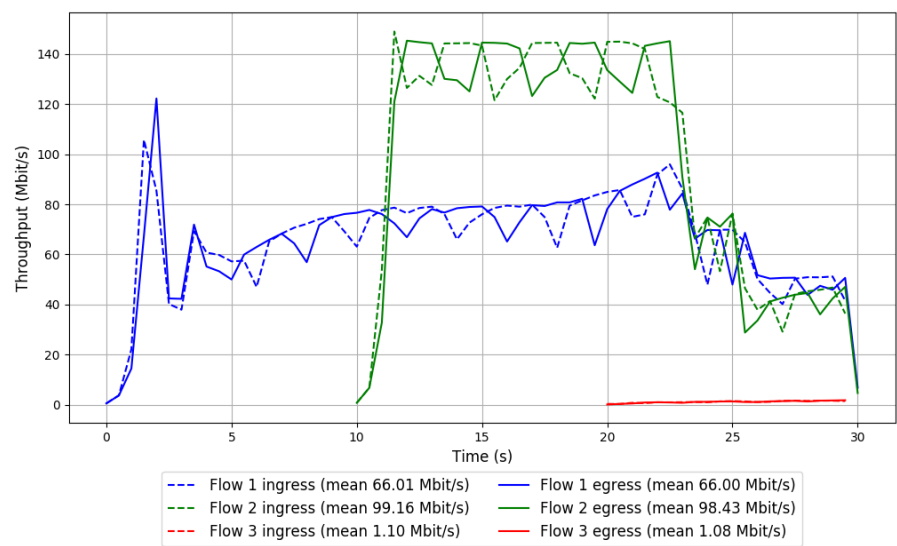
-- Flow 3:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 96.727 ms

Loss rate: 1.98%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-26 13:41:28

End at: 2018-01-26 13:41:58

Below is generated by plot.py at 2018-01-26 15:25:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 171.10 Mbit/s

95th percentile per-packet one-way delay: 115.973 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 77.22 Mbit/s

95th percentile per-packet one-way delay: 112.695 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 84.46 Mbit/s

95th percentile per-packet one-way delay: 111.313 ms

Loss rate: 0.50%

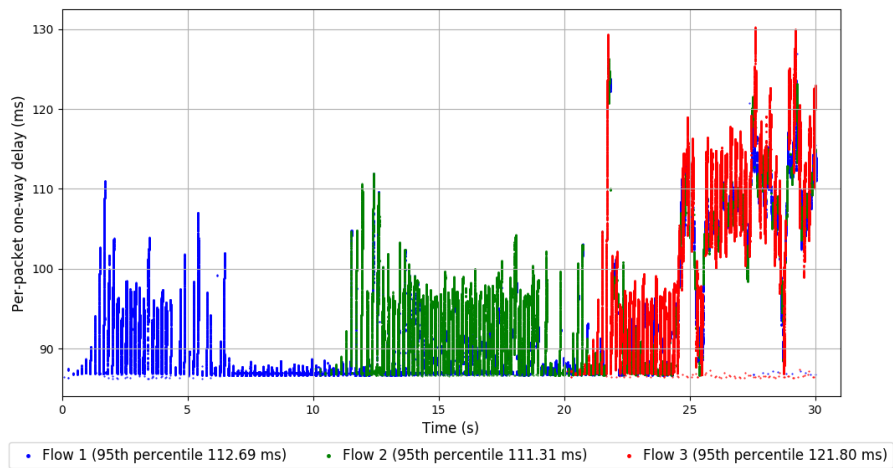
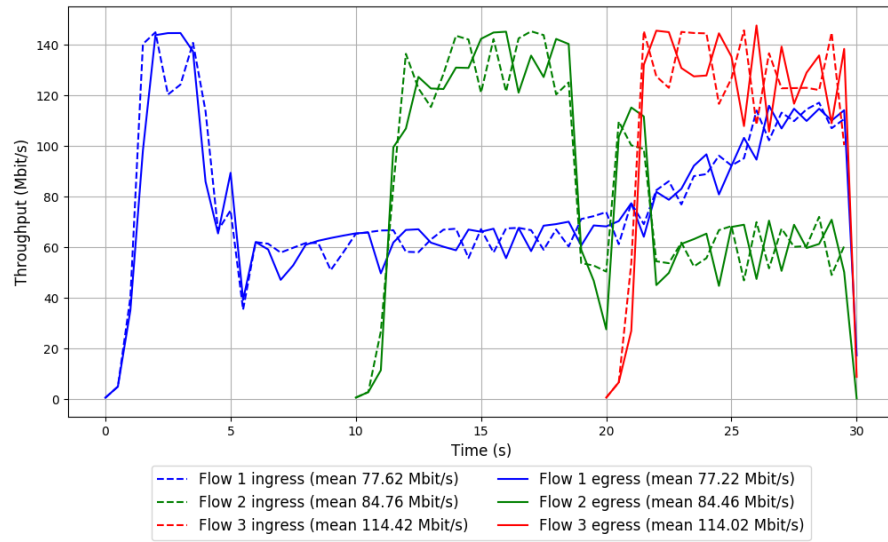
-- Flow 3:

Average throughput: 114.02 Mbit/s

95th percentile per-packet one-way delay: 121.804 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-26 13:56:29

End at: 2018-01-26 13:56:59

Below is generated by plot.py at 2018-01-26 15:25:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 184.80 Mbit/s

95th percentile per-packet one-way delay: 99.002 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 89.55 Mbit/s

95th percentile per-packet one-way delay: 99.032 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 91.29 Mbit/s

95th percentile per-packet one-way delay: 98.759 ms

Loss rate: 0.01%

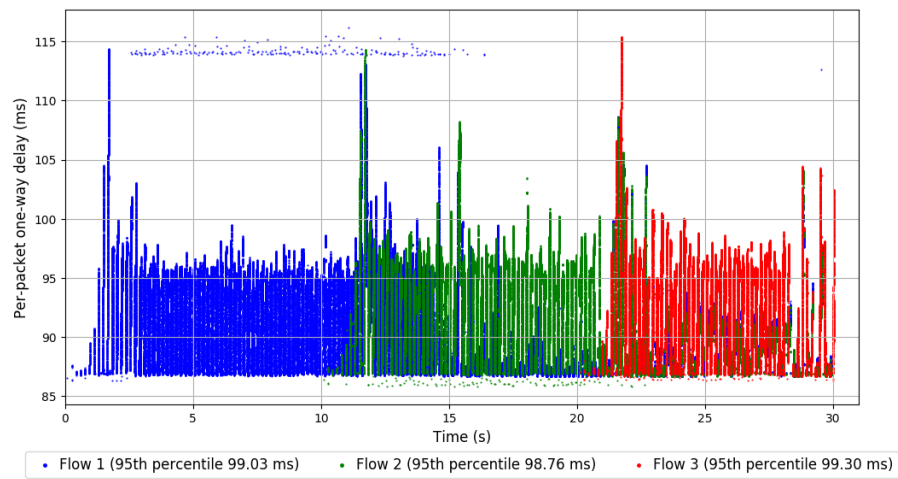
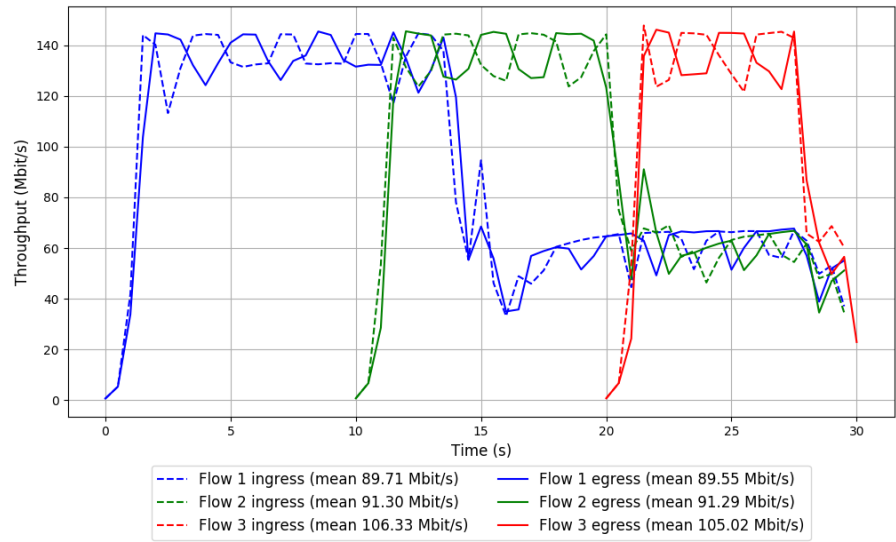
-- Flow 3:

Average throughput: 105.02 Mbit/s

95th percentile per-packet one-way delay: 99.299 ms

Loss rate: 1.20%

Run 10: Report of TCP Cubic — Data Link

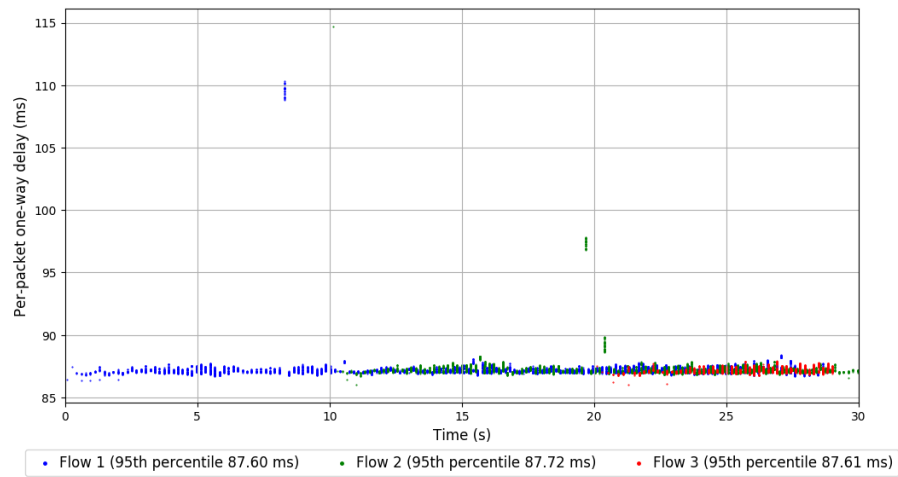
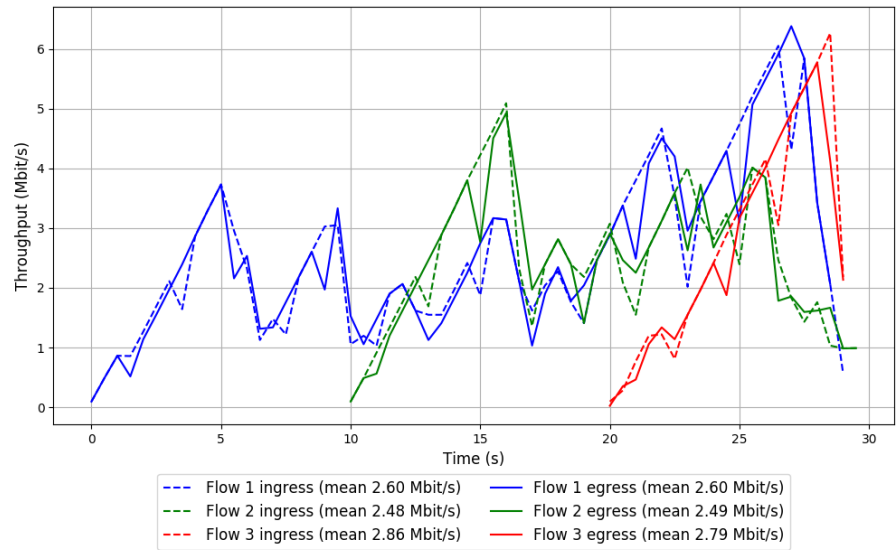


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-26 11:39:10
End at: 2018-01-26 11:39:40

# Below is generated by plot.py at 2018-01-26 15:25:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.00 Mbit/s
95th percentile per-packet one-way delay: 87.644 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 2.60 Mbit/s
95th percentile per-packet one-way delay: 87.597 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 2.49 Mbit/s
95th percentile per-packet one-way delay: 87.715 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.79 Mbit/s
95th percentile per-packet one-way delay: 87.605 ms
Loss rate: 4.20%
```


Run 1: Report of LEDBAT — Data Link

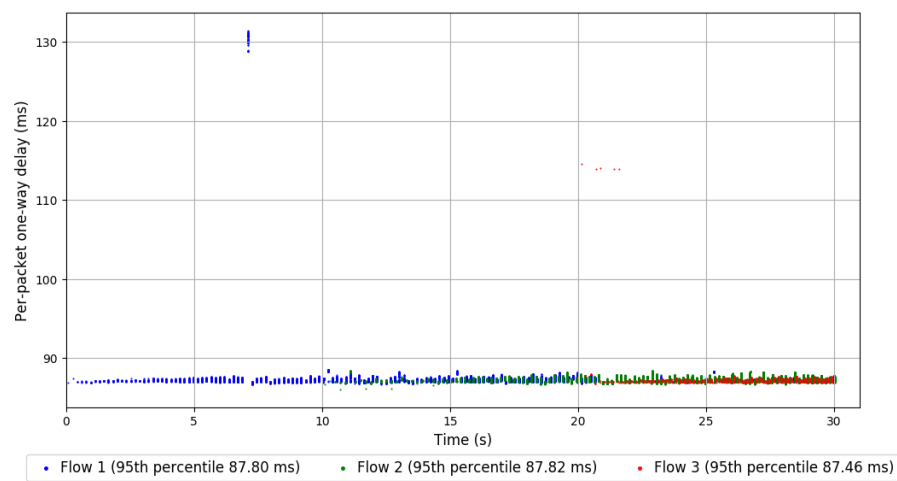
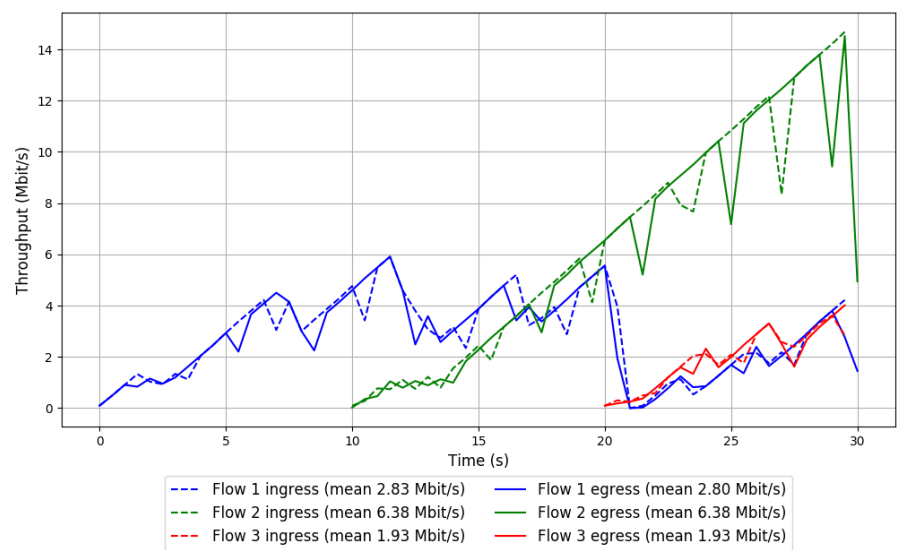


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-26 11:54:08
End at: 2018-01-26 11:54:38

# Below is generated by plot.py at 2018-01-26 15:25:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.68 Mbit/s
95th percentile per-packet one-way delay: 87.795 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 2.80 Mbit/s
95th percentile per-packet one-way delay: 87.797 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 6.38 Mbit/s
95th percentile per-packet one-way delay: 87.821 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 87.458 ms
Loss rate: 0.12%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-26 12:08:45

End at: 2018-01-26 12:09:15

Below is generated by plot.py at 2018-01-26 15:25:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.31 Mbit/s

95th percentile per-packet one-way delay: 87.709 ms

Loss rate: 2.65%

-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 87.828 ms

Loss rate: 1.28%

-- Flow 2:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 87.544 ms

Loss rate: 4.22%

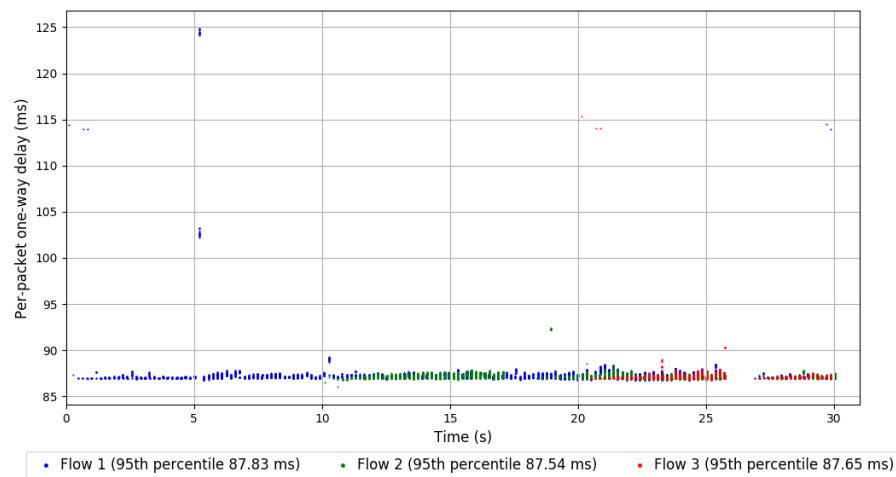
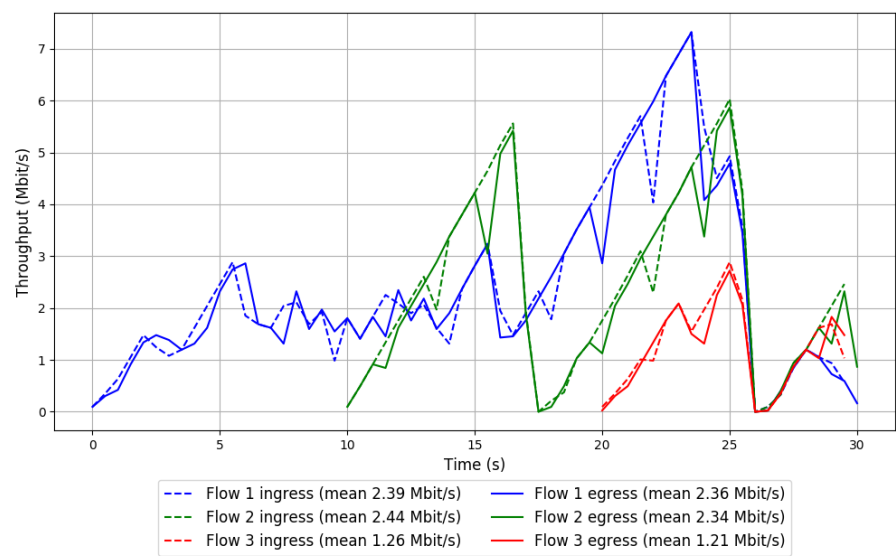
-- Flow 3:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 87.652 ms

Loss rate: 4.47%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-26 12:23:33

End at: 2018-01-26 12:24:03

Below is generated by plot.py at 2018-01-26 15:25:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.34 Mbit/s

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

Loss rate: 0.92%

-- Flow 1:

Average throughput: 2.90 Mbit/s

95th percentile per-packet one-way delay: 87.906 ms

Loss rate: 1.93%

-- Flow 2:

Average throughput: 3.24 Mbit/s

95th percentile per-packet one-way delay: 87.784 ms

Loss rate: 0.11%

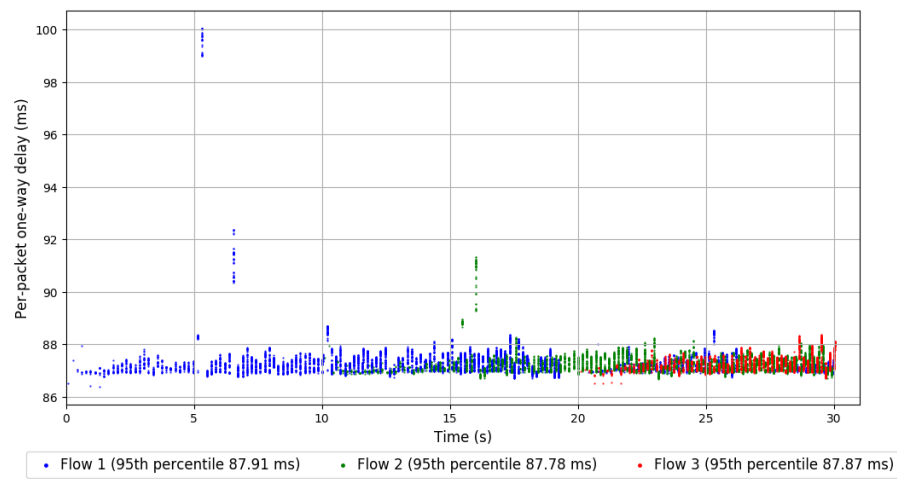
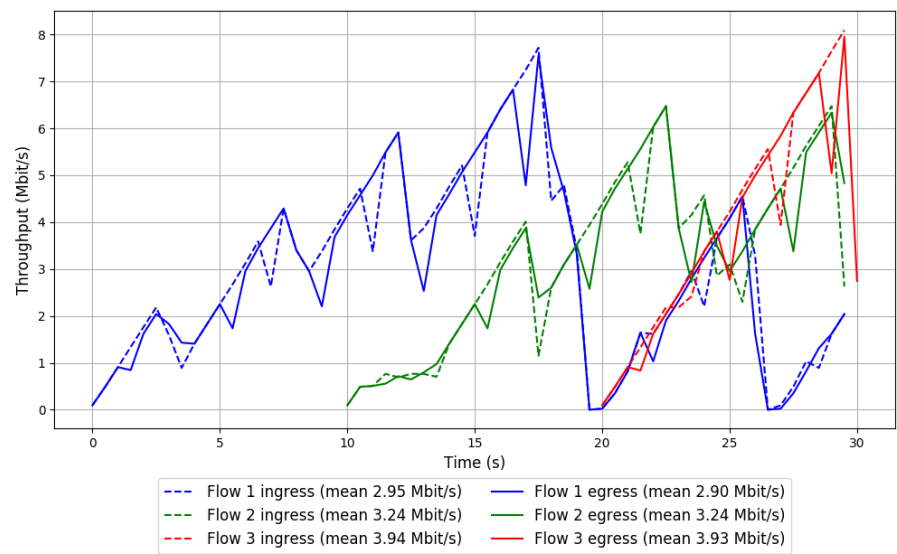
-- Flow 3:

Average throughput: 3.93 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-26 12:38:08

End at: 2018-01-26 12:38:38

Below is generated by plot.py at 2018-01-26 15:25:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.51 Mbit/s

95th percentile per-packet one-way delay: 87.783 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.13 Mbit/s

95th percentile per-packet one-way delay: 87.715 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 5.96 Mbit/s

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

Loss rate: 0.00%

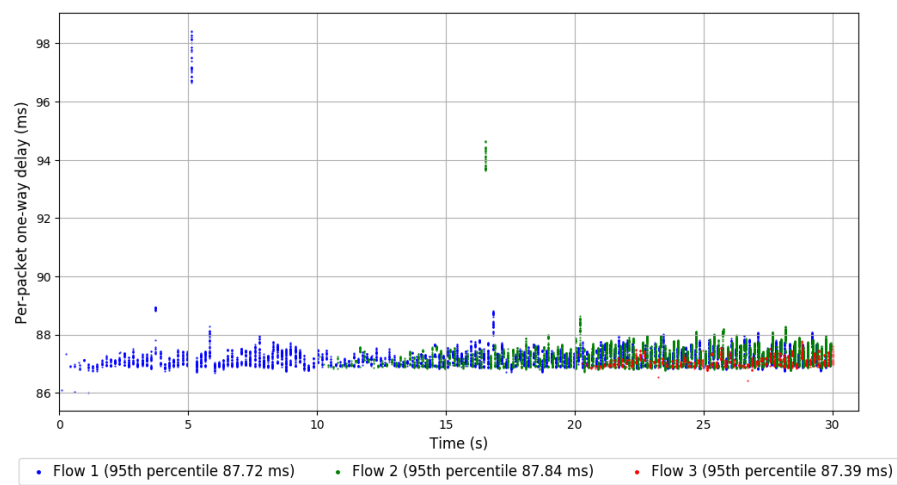
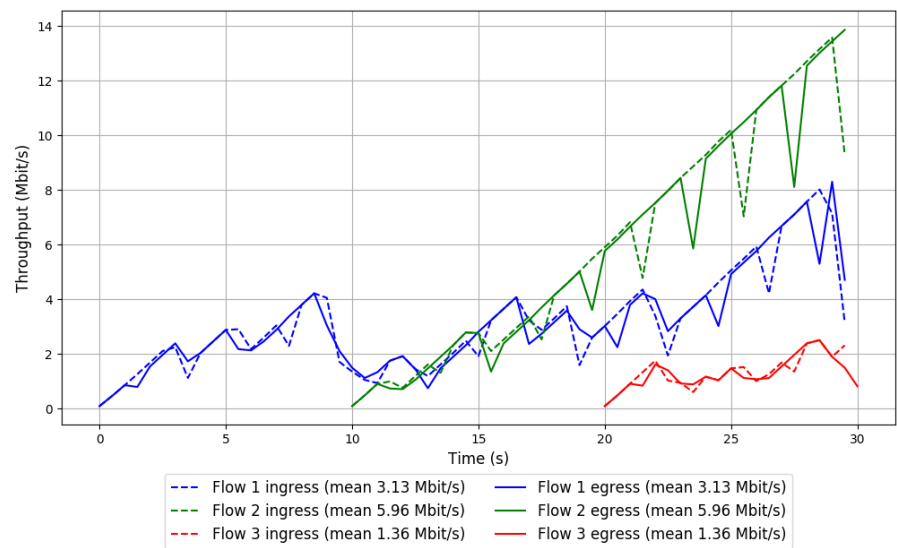
-- Flow 3:

Average throughput: 1.36 Mbit/s

95th percentile per-packet one-way delay: 87.388 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

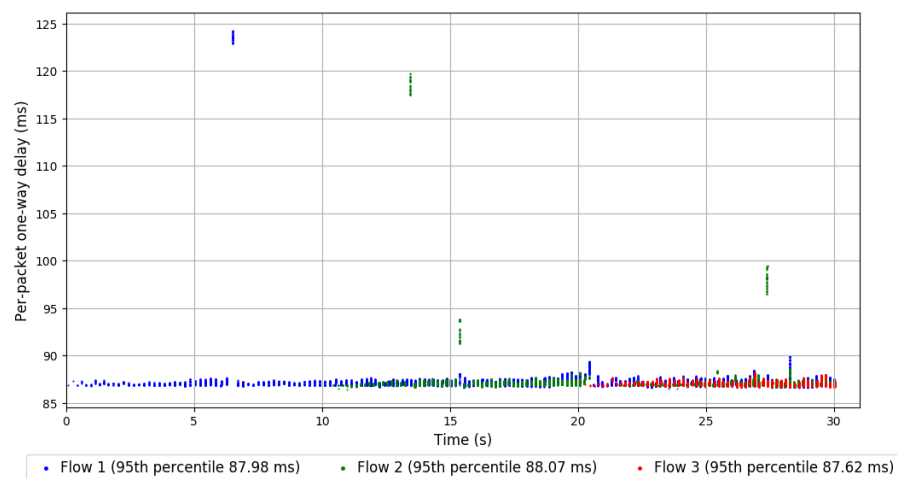
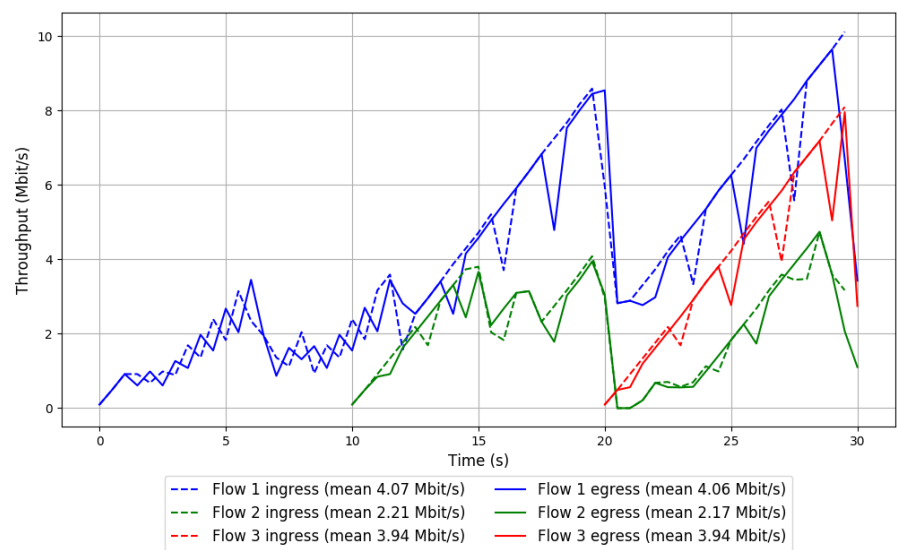


```
Run 6: Statistics of LEDBAT

Start at: 2018-01-26 12:52:40
End at: 2018-01-26 12:53:10

# Below is generated by plot.py at 2018-01-26 15:25:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 87.911 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 4.06 Mbit/s
95th percentile per-packet one-way delay: 87.976 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 88.069 ms
Loss rate: 1.94%
-- Flow 3:
Average throughput: 3.94 Mbit/s
95th percentile per-packet one-way delay: 87.619 ms
Loss rate: 0.00%
```

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-26 13:07:24

End at: 2018-01-26 13:07:54

Below is generated by plot.py at 2018-01-26 15:25:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.58 Mbit/s

95th percentile per-packet one-way delay: 87.927 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 8.96 Mbit/s

95th percentile per-packet one-way delay: 5207.974 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 88.081 ms

Loss rate: 0.00%

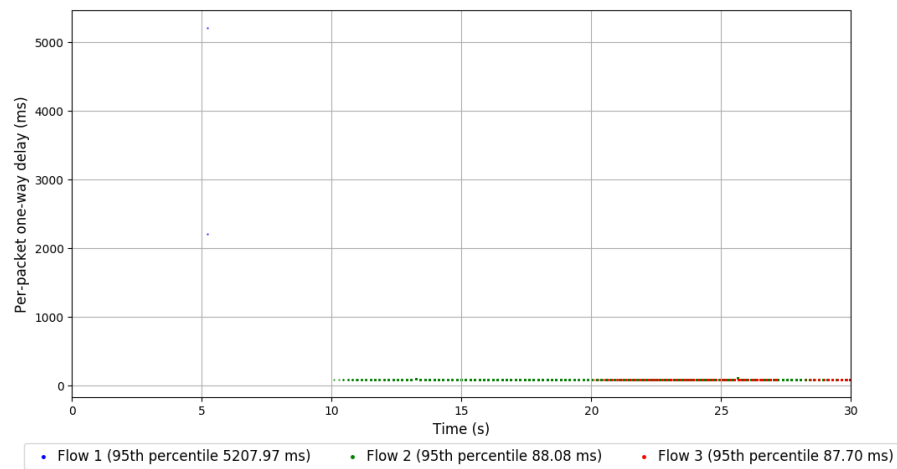
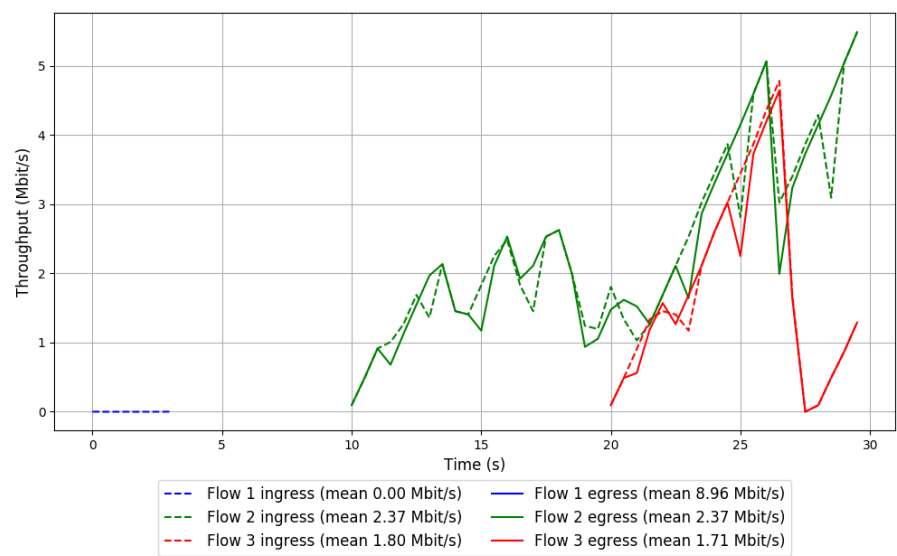
-- Flow 3:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 87.701 ms

Loss rate: 4.76%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-26 13:22:10

End at: 2018-01-26 13:22:40

Below is generated by plot.py at 2018-01-26 15:25:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.14 Mbit/s

95th percentile per-packet one-way delay: 87.746 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 3.09 Mbit/s

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

Loss rate: 0.48%

-- Flow 2:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 87.767 ms

Loss rate: 1.16%

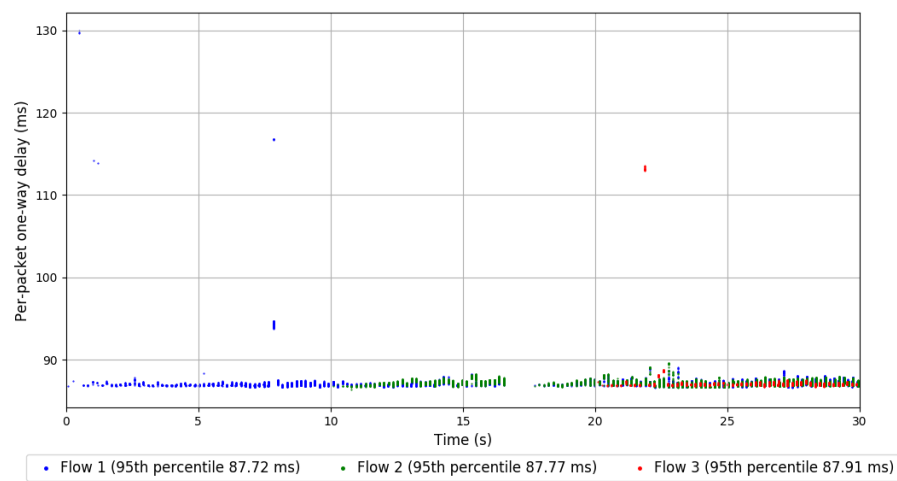
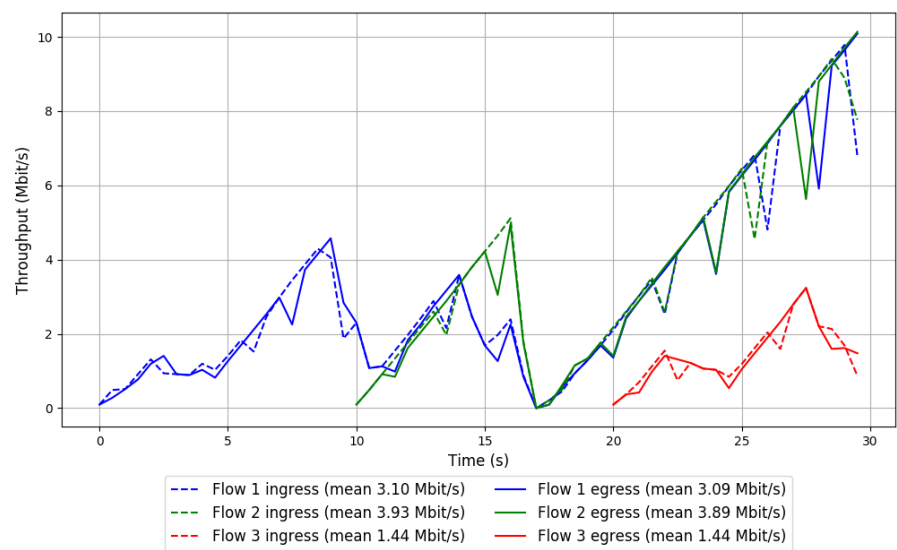
-- Flow 3:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 87.911 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-26 13:37:00

End at: 2018-01-26 13:37:30

Below is generated by plot.py at 2018-01-26 15:25:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.55 Mbit/s

95th percentile per-packet one-way delay: 87.916 ms

Loss rate: 2.00%

-- Flow 1:

Average throughput: 2.78 Mbit/s

95th percentile per-packet one-way delay: 88.010 ms

Loss rate: 1.31%

-- Flow 2:

Average throughput: 3.31 Mbit/s

95th percentile per-packet one-way delay: 88.084 ms

Loss rate: 2.10%

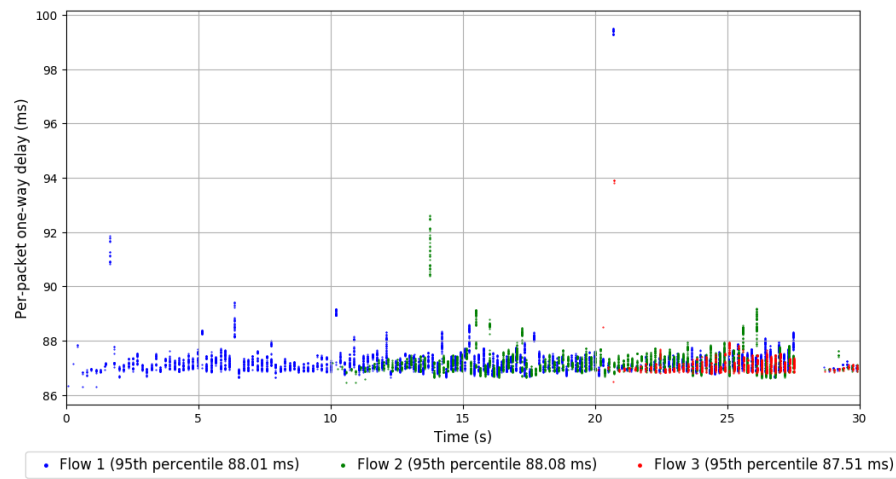
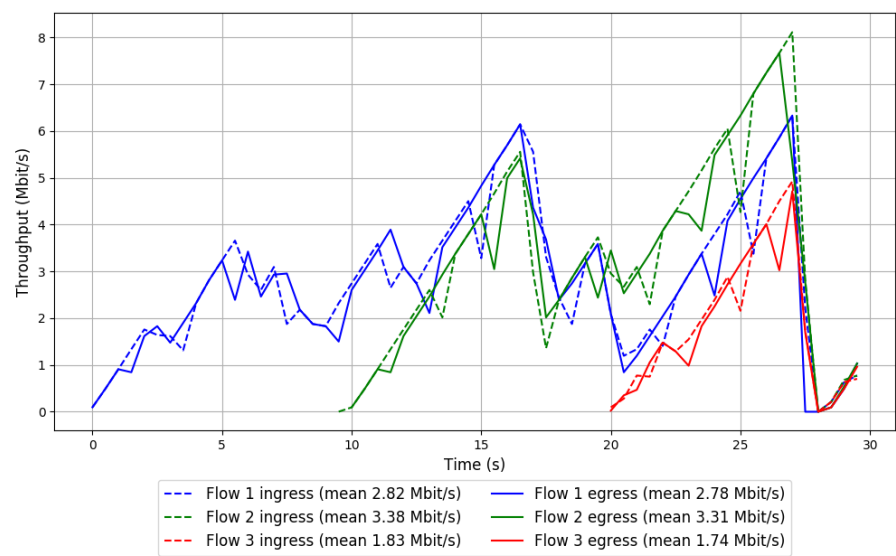
-- Flow 3:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 87.512 ms

Loss rate: 4.83%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-26 13:51:49

End at: 2018-01-26 13:52:19

Below is generated by plot.py at 2018-01-26 15:25:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.30 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 87.981 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 87.978 ms

Loss rate: 0.00%

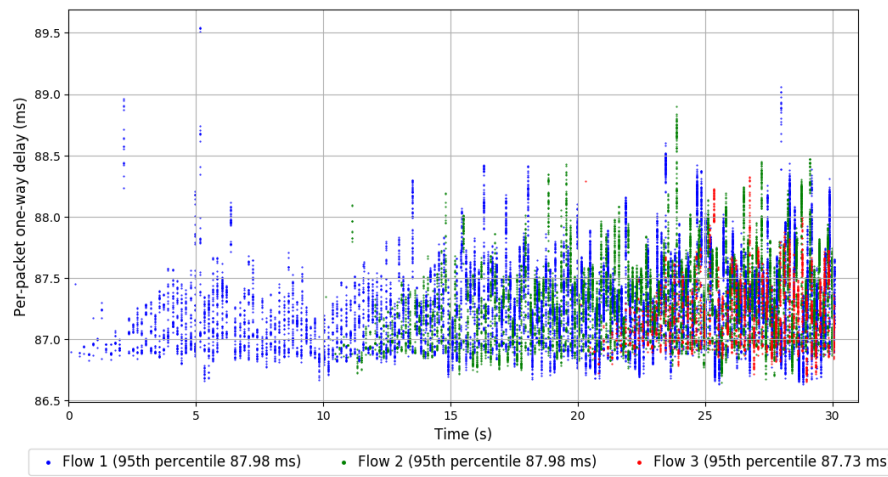
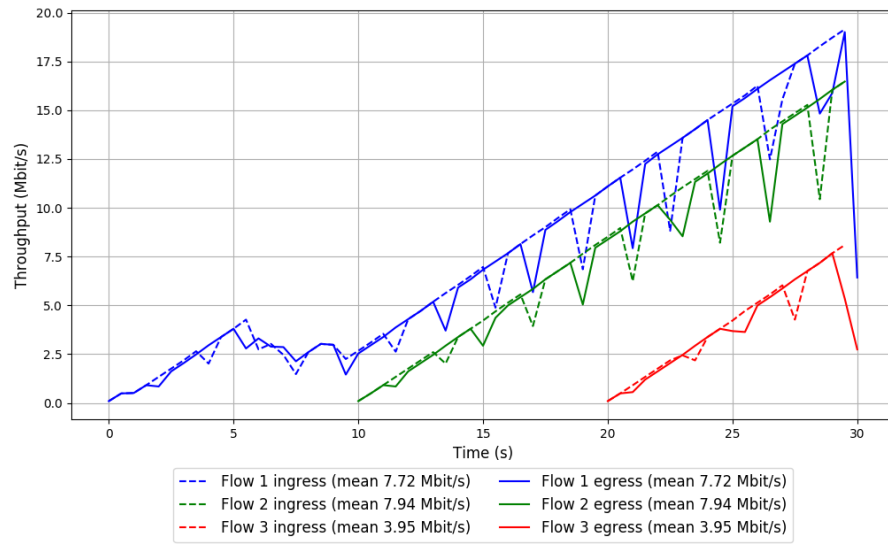
-- Flow 3:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 87.726 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

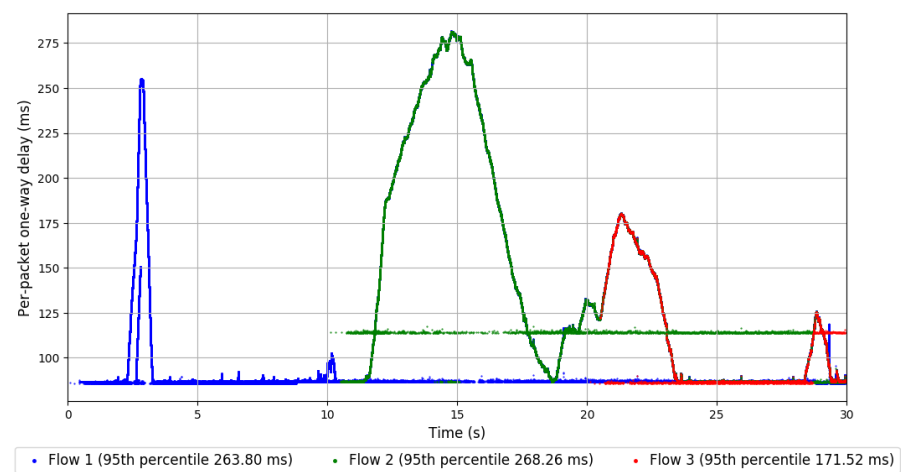
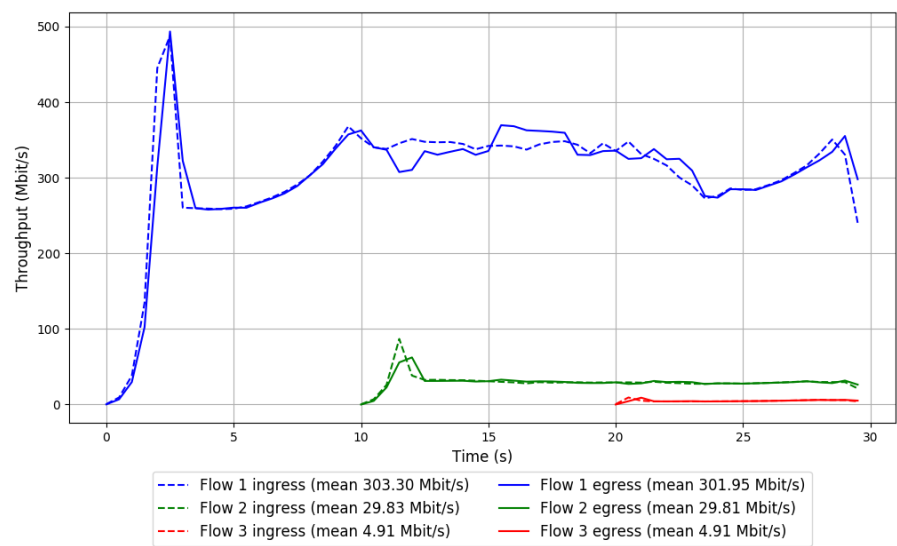


```
Run 1: Statistics of PCC

Start at: 2018-01-26 11:50:32
End at: 2018-01-26 11:51:02

# Below is generated by plot.py at 2018-01-26 15:28:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 323.36 Mbit/s
95th percentile per-packet one-way delay: 264.043 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 301.95 Mbit/s
95th percentile per-packet one-way delay: 263.795 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 29.81 Mbit/s
95th percentile per-packet one-way delay: 268.258 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 4.91 Mbit/s
95th percentile per-packet one-way delay: 171.520 ms
Loss rate: 0.00%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-26 12:05:09

End at: 2018-01-26 12:05:39

Below is generated by plot.py at 2018-01-26 15:28:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 334.11 Mbit/s

95th percentile per-packet one-way delay: 261.942 ms

Loss rate: 1.76%

-- Flow 1:

Average throughput: 255.24 Mbit/s

95th percentile per-packet one-way delay: 261.562 ms

Loss rate: 1.65%

-- Flow 2:

Average throughput: 117.43 Mbit/s

95th percentile per-packet one-way delay: 262.875 ms

Loss rate: 2.11%

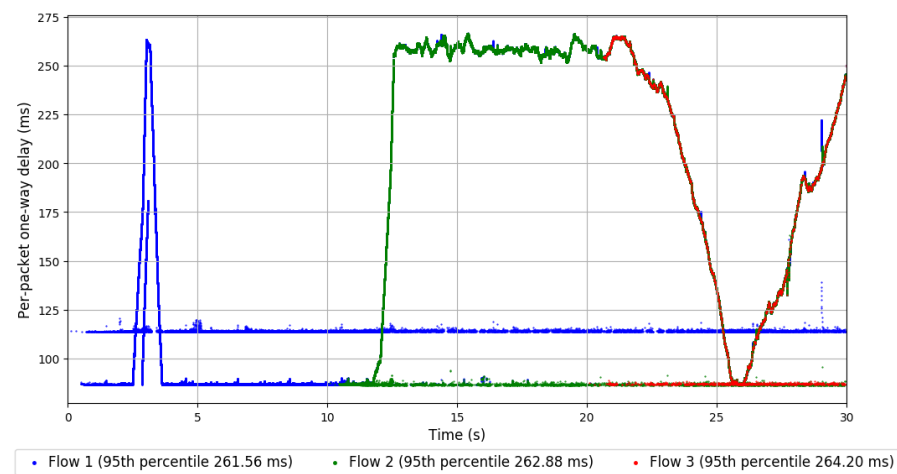
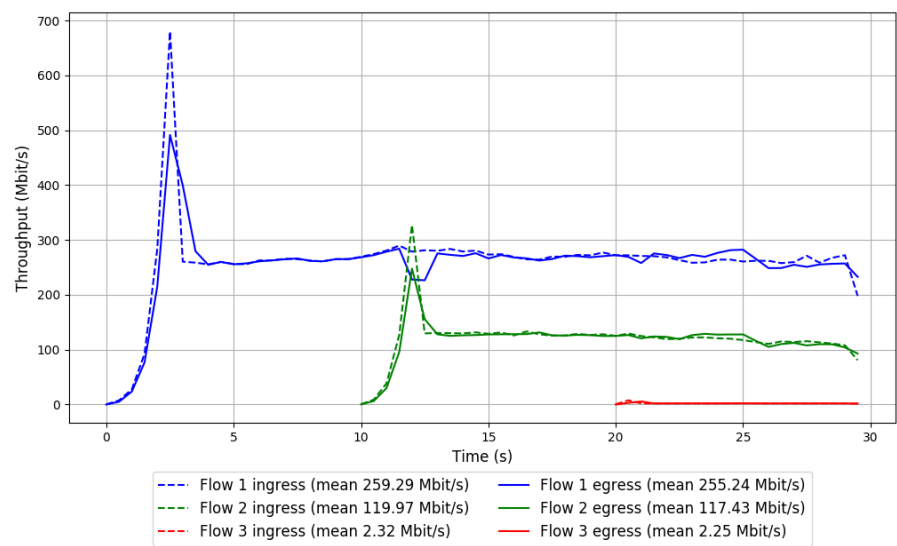
-- Flow 3:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 264.198 ms

Loss rate: 2.94%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-26 12:19:58

End at: 2018-01-26 12:20:28

Below is generated by plot.py at 2018-01-26 15:28:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 327.81 Mbit/s

95th percentile per-packet one-way delay: 273.401 ms

Loss rate: 1.79%

-- Flow 1:

Average throughput: 247.34 Mbit/s

95th percentile per-packet one-way delay: 273.142 ms

Loss rate: 1.59%

-- Flow 2:

Average throughput: 120.18 Mbit/s

95th percentile per-packet one-way delay: 274.320 ms

Loss rate: 2.40%

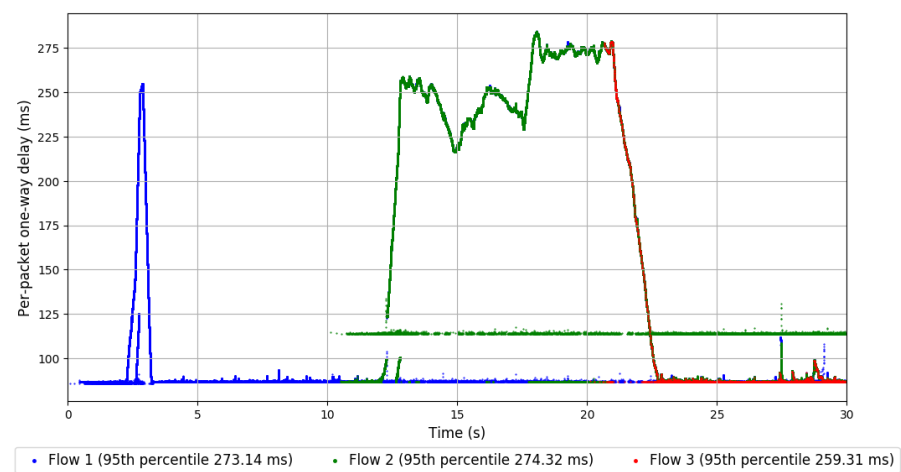
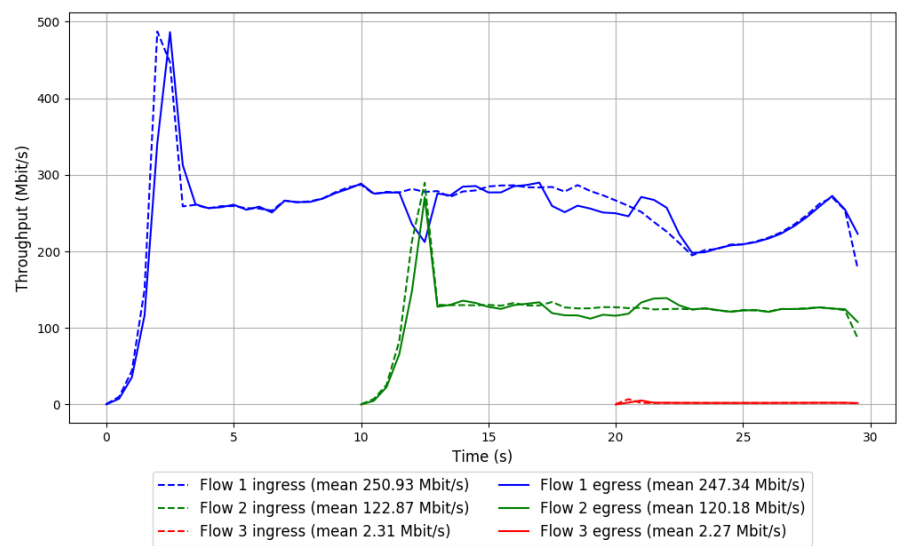
-- Flow 3:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 259.306 ms

Loss rate: 1.80%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-26 12:34:33

End at: 2018-01-26 12:35:03

Below is generated by plot.py at 2018-01-26 15:29:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 349.33 Mbit/s

95th percentile per-packet one-way delay: 270.787 ms

Loss rate: 4.90%

-- Flow 1:

Average throughput: 311.31 Mbit/s

95th percentile per-packet one-way delay: 270.700 ms

Loss rate: 4.65%

-- Flow 2:

Average throughput: 56.29 Mbit/s

95th percentile per-packet one-way delay: 271.368 ms

Loss rate: 6.90%

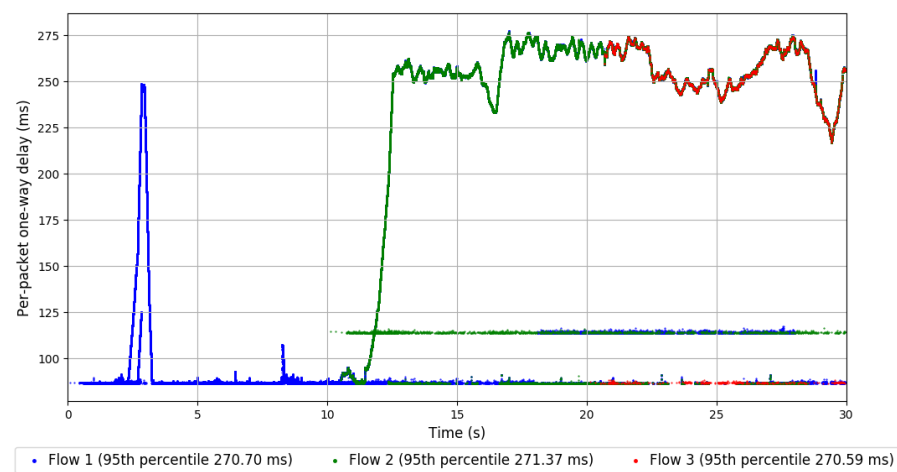
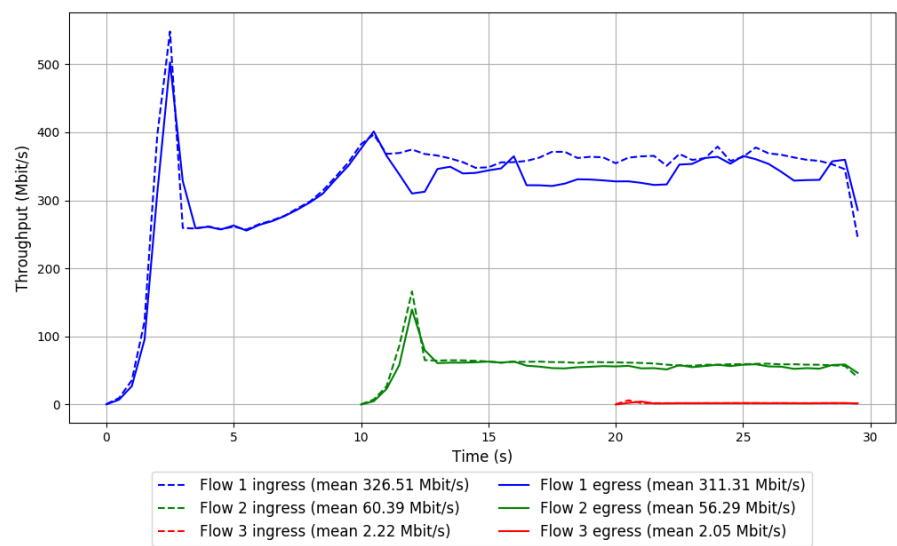
-- Flow 3:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 270.590 ms

Loss rate: 7.50%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-26 12:49:06

End at: 2018-01-26 12:49:36

Below is generated by plot.py at 2018-01-26 15:30:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 337.78 Mbit/s

95th percentile per-packet one-way delay: 257.528 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 324.50 Mbit/s

95th percentile per-packet one-way delay: 255.832 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 258.426 ms

Loss rate: 0.23%

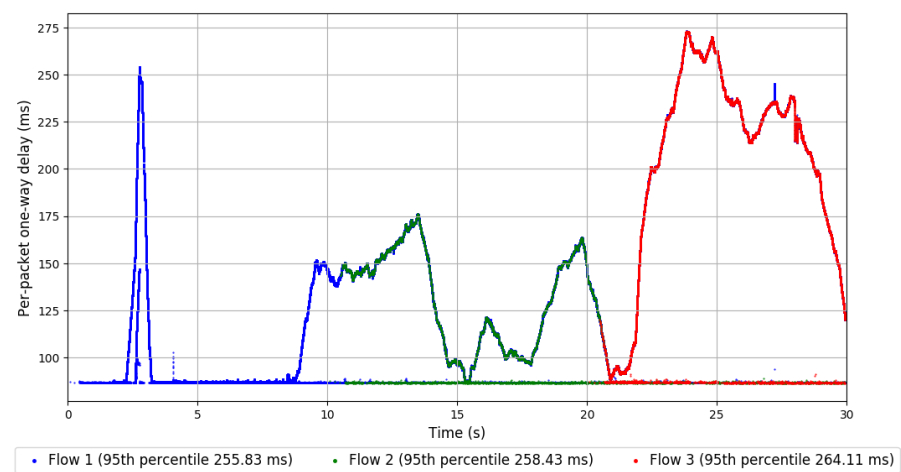
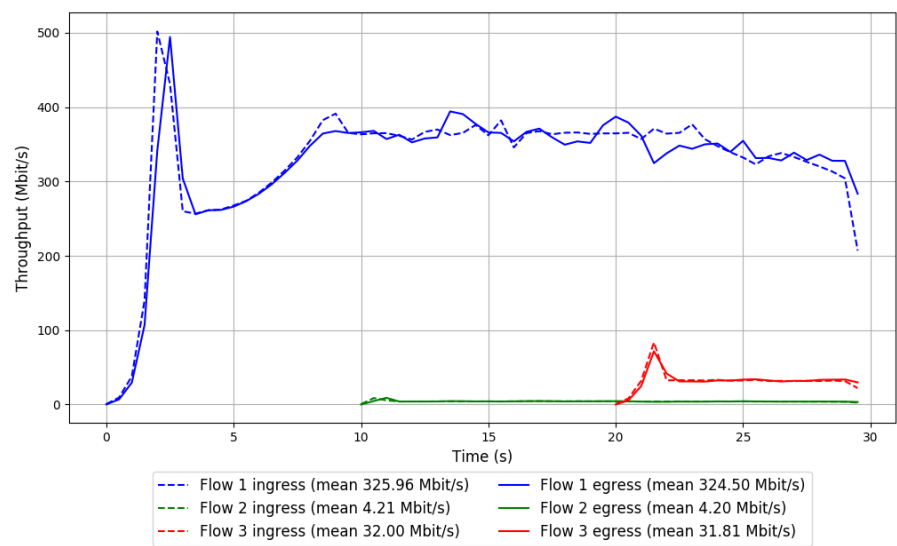
-- Flow 3:

Average throughput: 31.81 Mbit/s

95th percentile per-packet one-way delay: 264.106 ms

Loss rate: 0.58%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-26 13:03:48

End at: 2018-01-26 13:04:18

Below is generated by plot.py at 2018-01-26 15:30:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.11 Mbit/s

95th percentile per-packet one-way delay: 206.689 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 268.13 Mbit/s

95th percentile per-packet one-way delay: 206.559 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 65.53 Mbit/s

95th percentile per-packet one-way delay: 208.013 ms

Loss rate: 0.00%

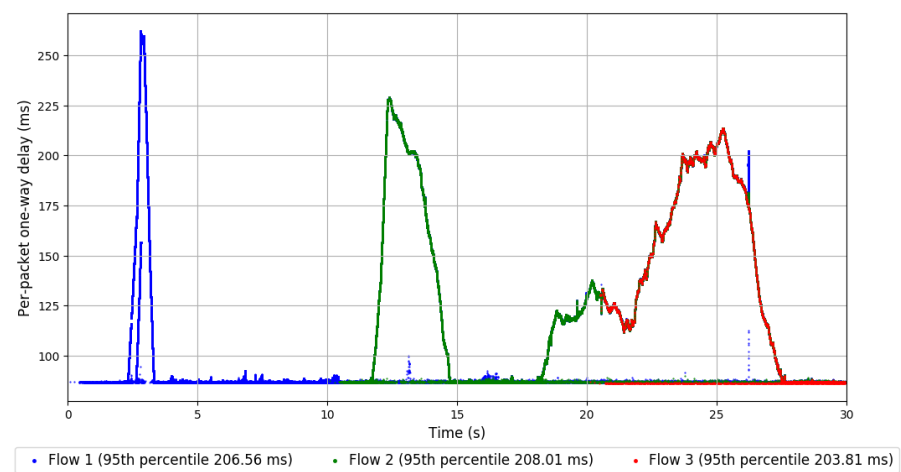
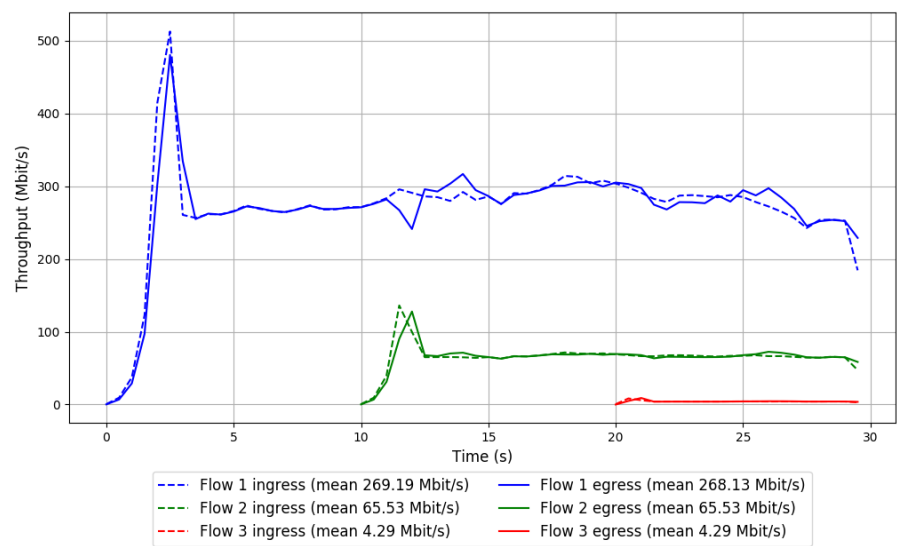
-- Flow 3:

Average throughput: 4.29 Mbit/s

95th percentile per-packet one-way delay: 203.811 ms

Loss rate: 0.00%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-26 13:18:36

End at: 2018-01-26 13:19:06

Below is generated by plot.py at 2018-01-26 15:31:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 284.51 Mbit/s

95th percentile per-packet one-way delay: 169.909 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 276.89 Mbit/s

95th percentile per-packet one-way delay: 169.946 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 9.23 Mbit/s

95th percentile per-packet one-way delay: 168.947 ms

Loss rate: 0.09%

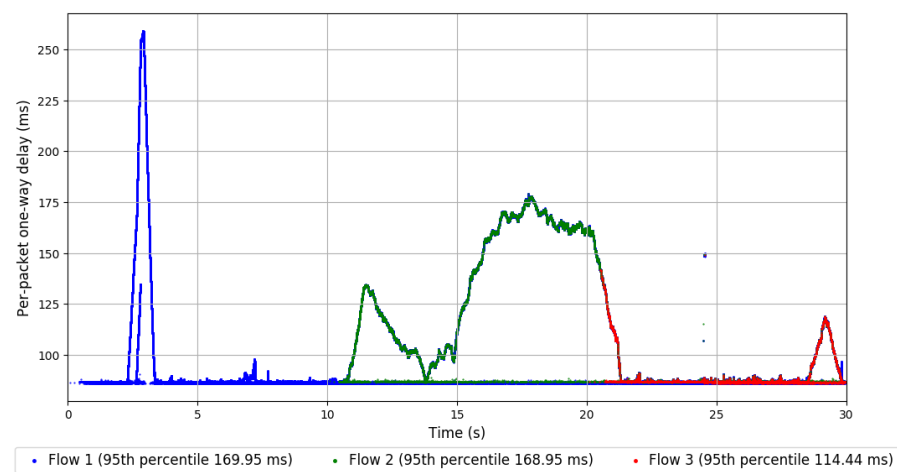
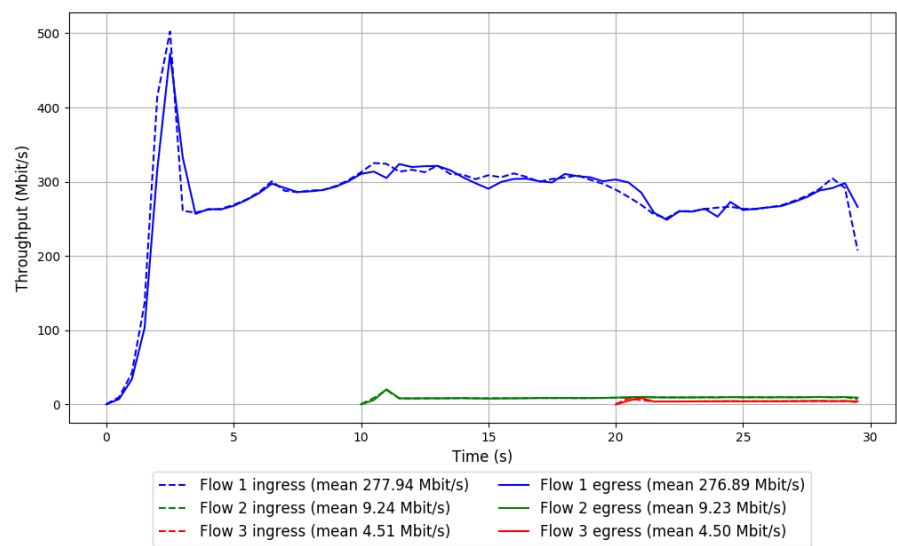
-- Flow 3:

Average throughput: 4.50 Mbit/s

95th percentile per-packet one-way delay: 114.435 ms

Loss rate: 0.19%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-26 13:33:25

End at: 2018-01-26 13:33:55

Below is generated by plot.py at 2018-01-26 15:32:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 339.60 Mbit/s

95th percentile per-packet one-way delay: 273.671 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 291.27 Mbit/s

95th percentile per-packet one-way delay: 273.246 ms

Loss rate: 1.34%

-- Flow 2:

Average throughput: 65.02 Mbit/s

95th percentile per-packet one-way delay: 275.478 ms

Loss rate: 1.84%

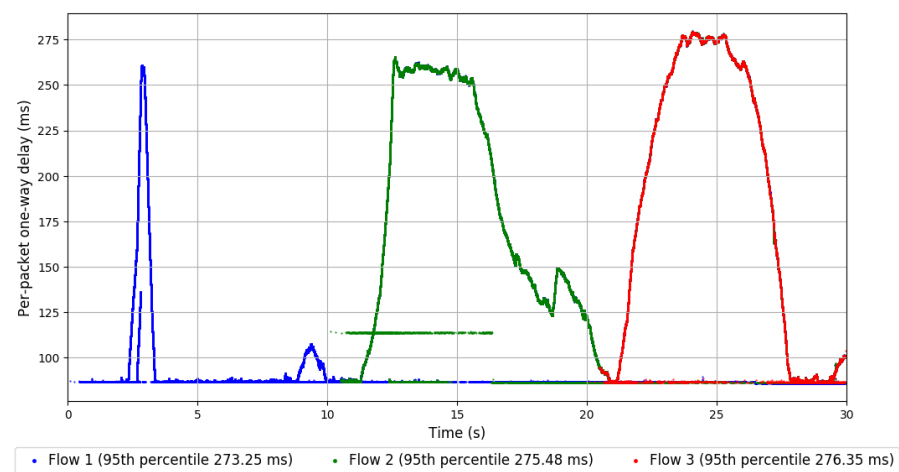
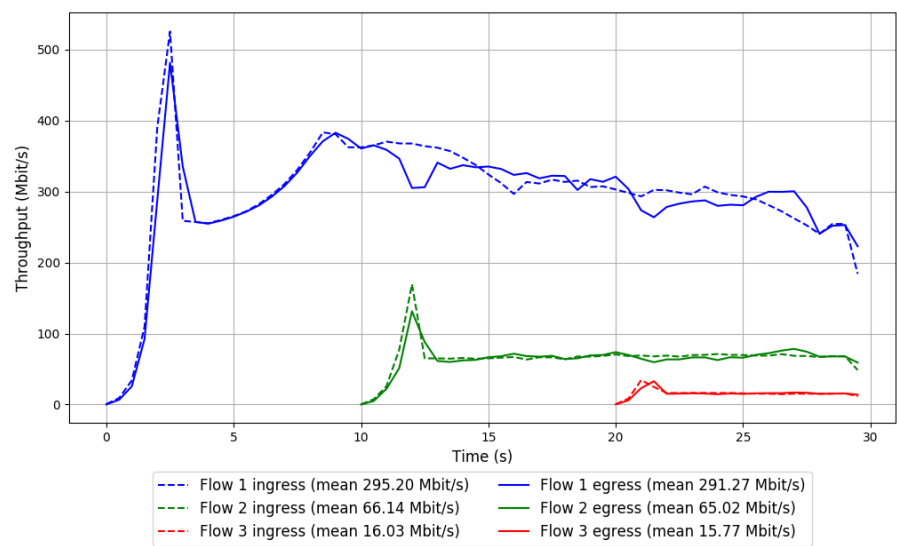
-- Flow 3:

Average throughput: 15.77 Mbit/s

95th percentile per-packet one-way delay: 276.352 ms

Loss rate: 1.58%

Run 8: Report of PCC — Data Link

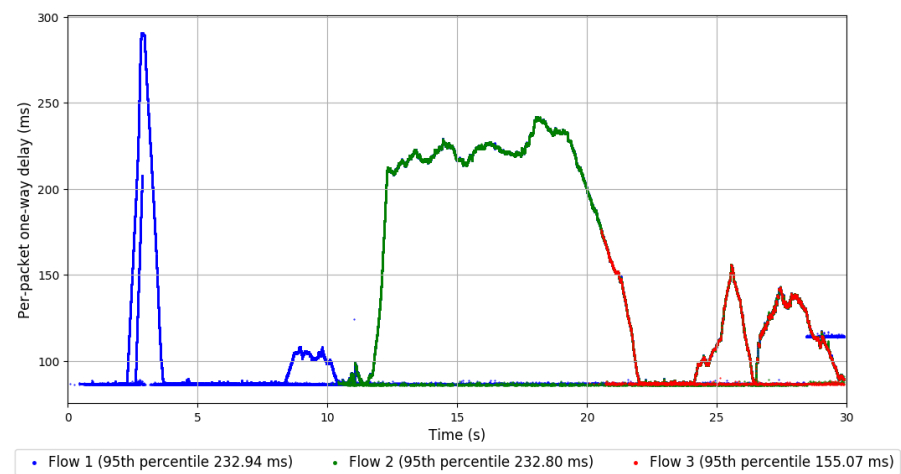
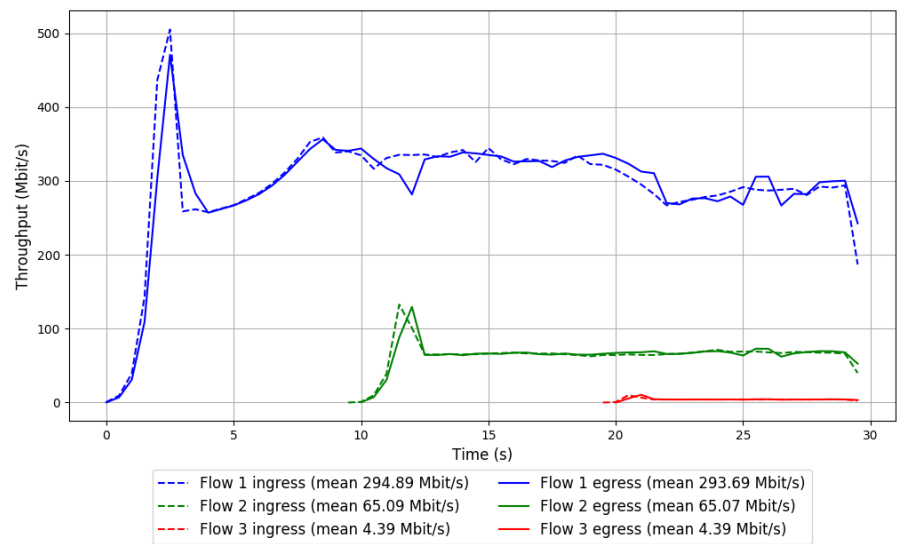


```
Run 9: Statistics of PCC

Start at: 2018-01-26 13:48:12
End at: 2018-01-26 13:48:42

# Below is generated by plot.py at 2018-01-26 15:35:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 338.45 Mbit/s
95th percentile per-packet one-way delay: 232.893 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 293.69 Mbit/s
95th percentile per-packet one-way delay: 232.940 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 65.07 Mbit/s
95th percentile per-packet one-way delay: 232.801 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.39 Mbit/s
95th percentile per-packet one-way delay: 155.069 ms
Loss rate: 0.00%
```

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-26 14:03:05

End at: 2018-01-26 14:03:35

Below is generated by plot.py at 2018-01-26 15:35:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 332.78 Mbit/s

95th percentile per-packet one-way delay: 273.640 ms

Loss rate: 1.94%

-- Flow 1:

Average throughput: 284.56 Mbit/s

95th percentile per-packet one-way delay: 273.349 ms

Loss rate: 1.84%

-- Flow 2:

Average throughput: 64.50 Mbit/s

95th percentile per-packet one-way delay: 274.826 ms

Loss rate: 2.29%

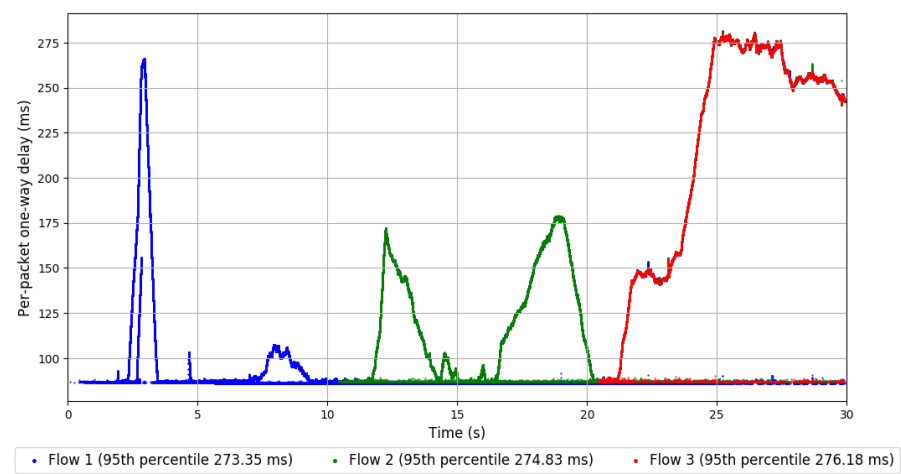
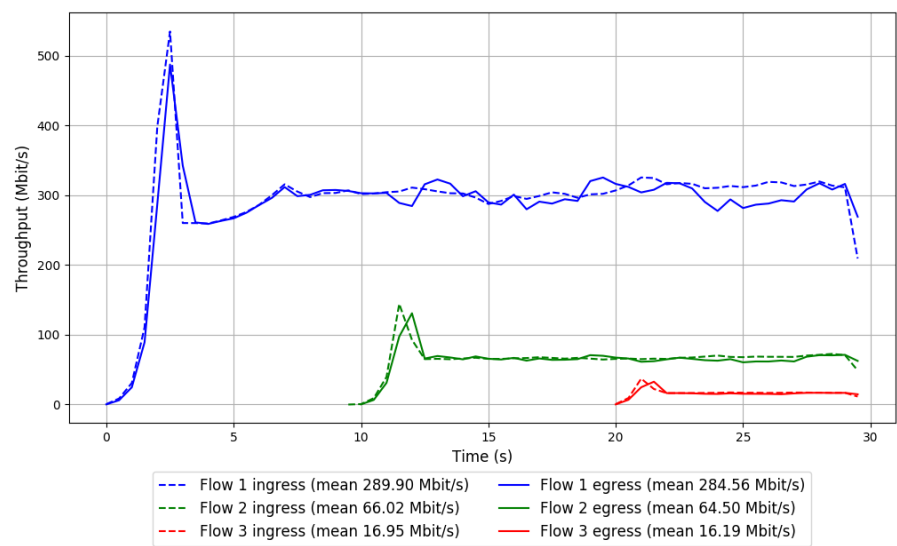
-- Flow 3:

Average throughput: 16.19 Mbit/s

95th percentile per-packet one-way delay: 276.175 ms

Loss rate: 4.44%

Run 10: Report of PCC — Data Link

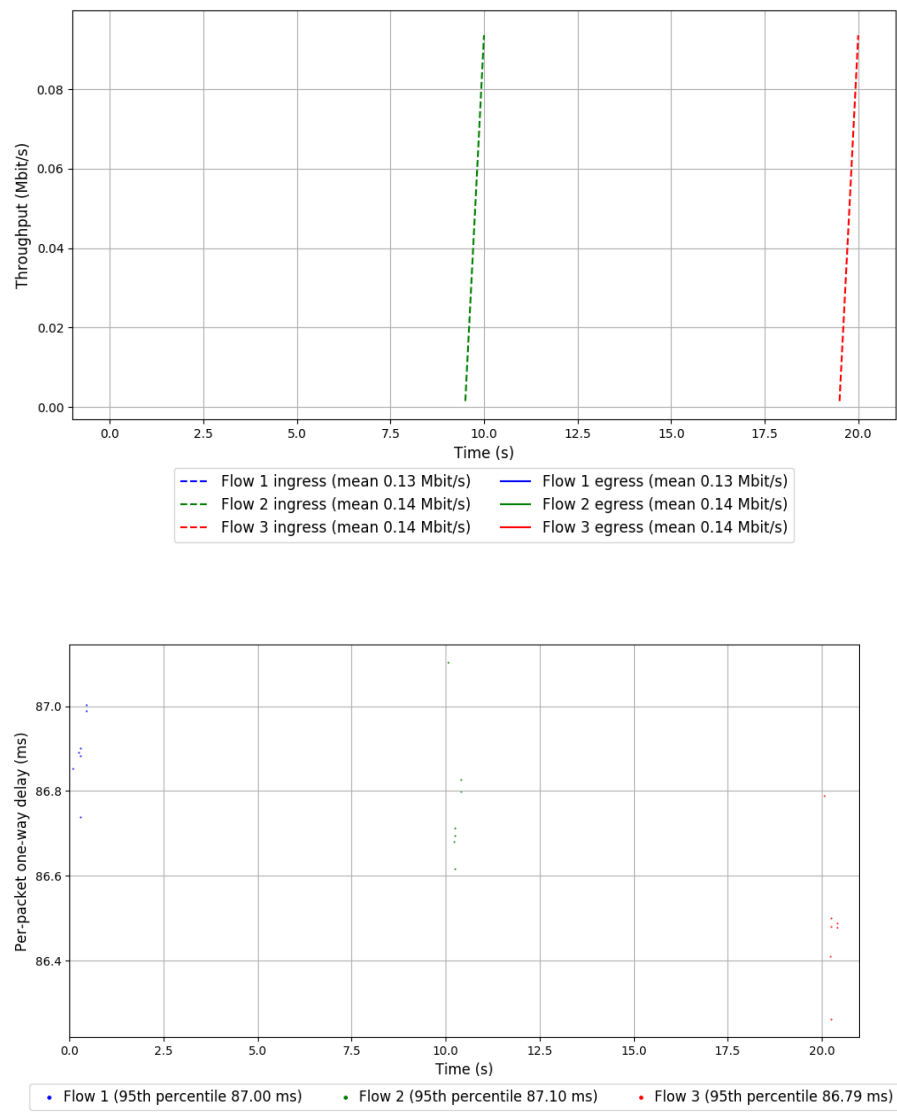


Run 1: Statistics of QUIC Cubic

Start at: 2018-01-26 11:36:45

End at: 2018-01-26 11:37:15

Run 1: Report of QUIC Cubic — Data Link

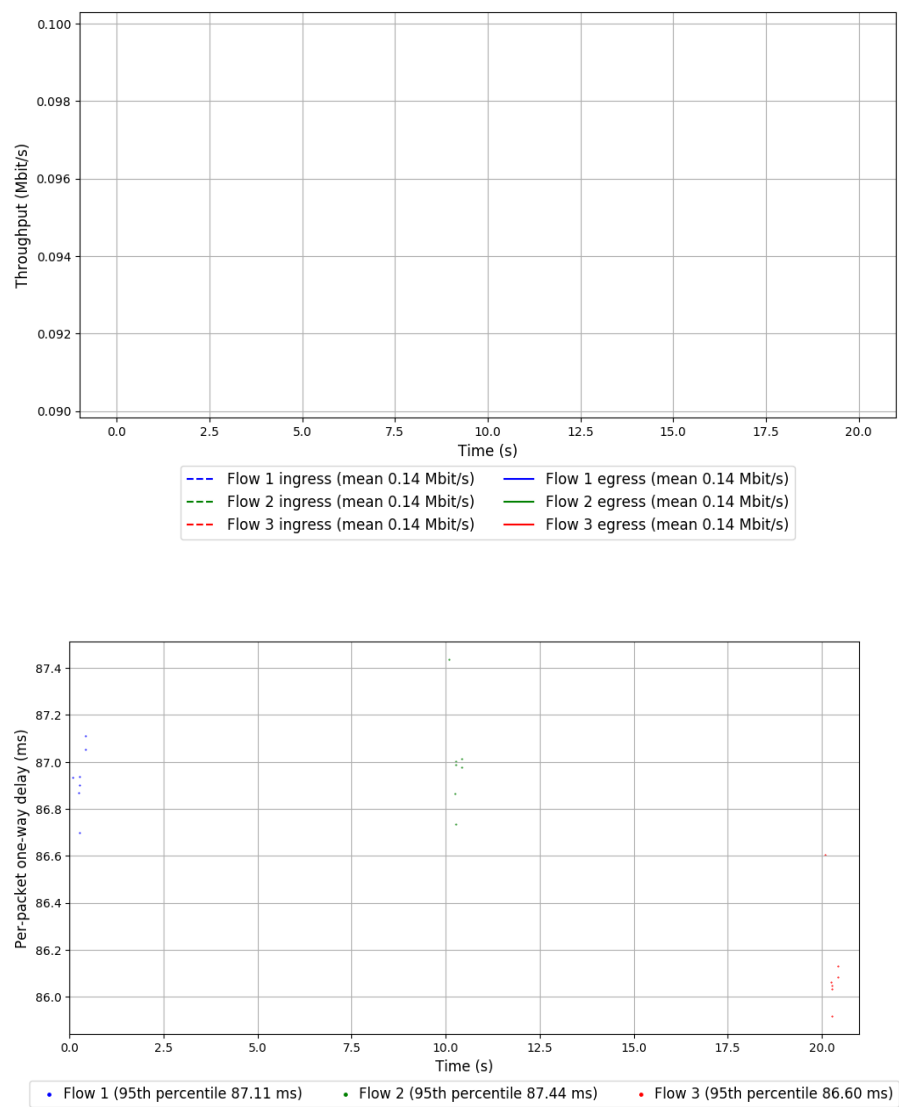


Run 2: Statistics of QUIC Cubic

Start at: 2018-01-26 11:51:31

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

Run 2: Report of QUIC Cubic — Data Link

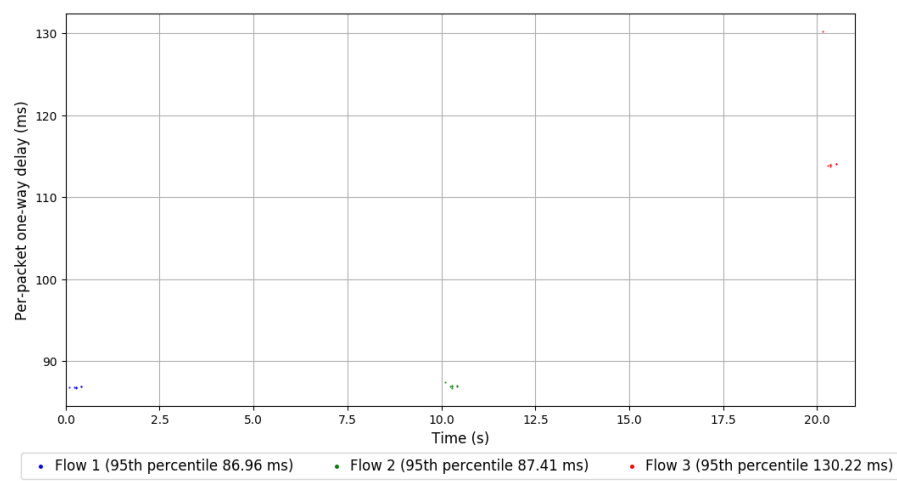
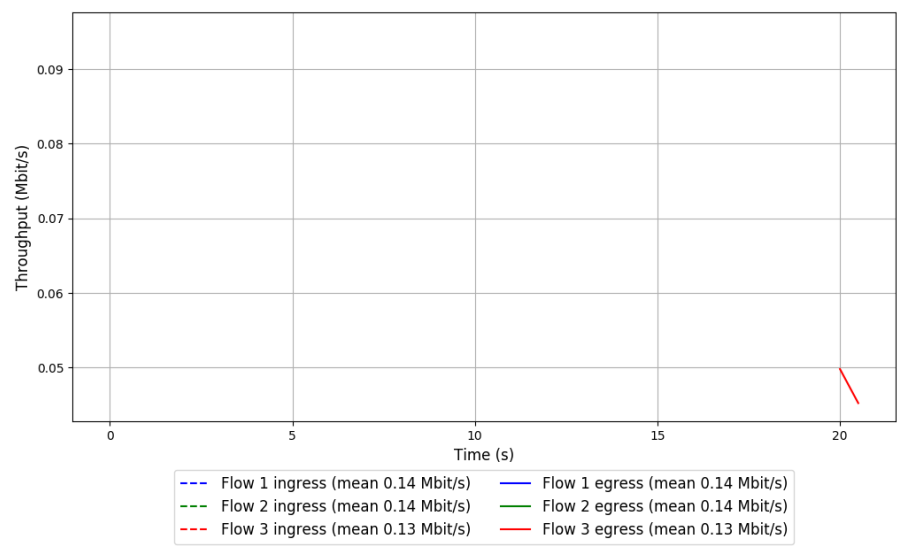


Run 3: Statistics of QUIC Cubic

Start at: 2018-01-26 12:06:09

End at: 2018-01-26 12:06:39

Run 3: Report of QUIC Cubic — Data Link

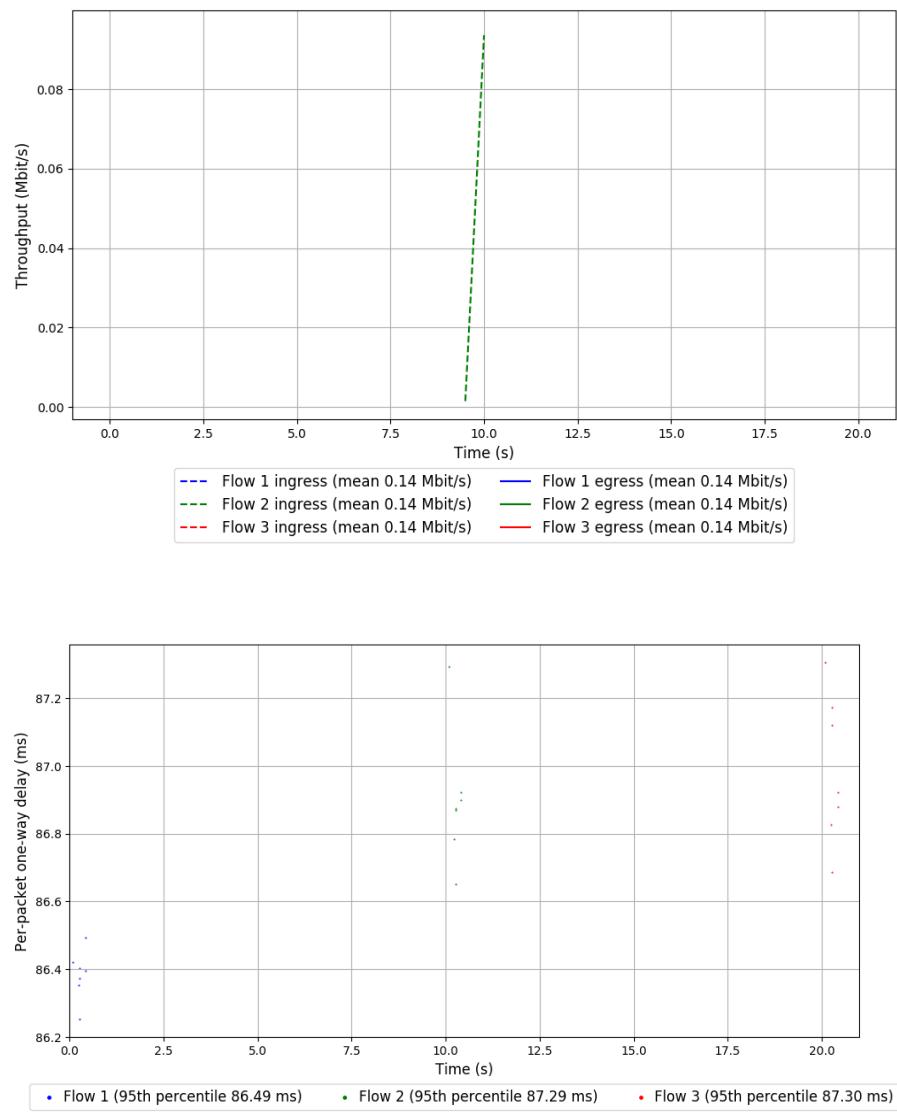


Run 4: Statistics of QUIC Cubic

Start at: 2018-01-26 12:20:56

End at: 2018-01-26 12:21:26

Run 4: Report of QUIC Cubic — Data Link

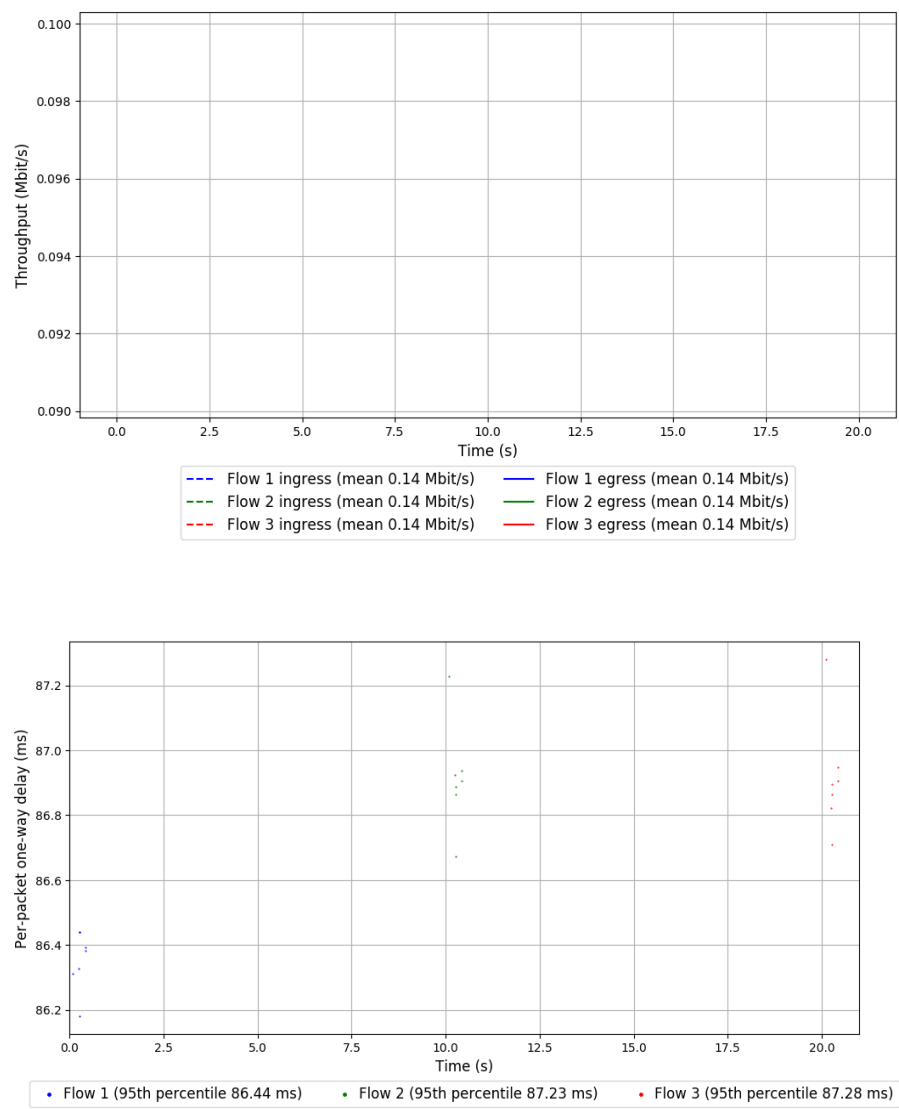


Run 5: Statistics of QUIC Cubic

Start at: 2018-01-26 12:35:33

End at: 2018-01-26 12:36:03

Run 5: Report of QUIC Cubic — Data Link

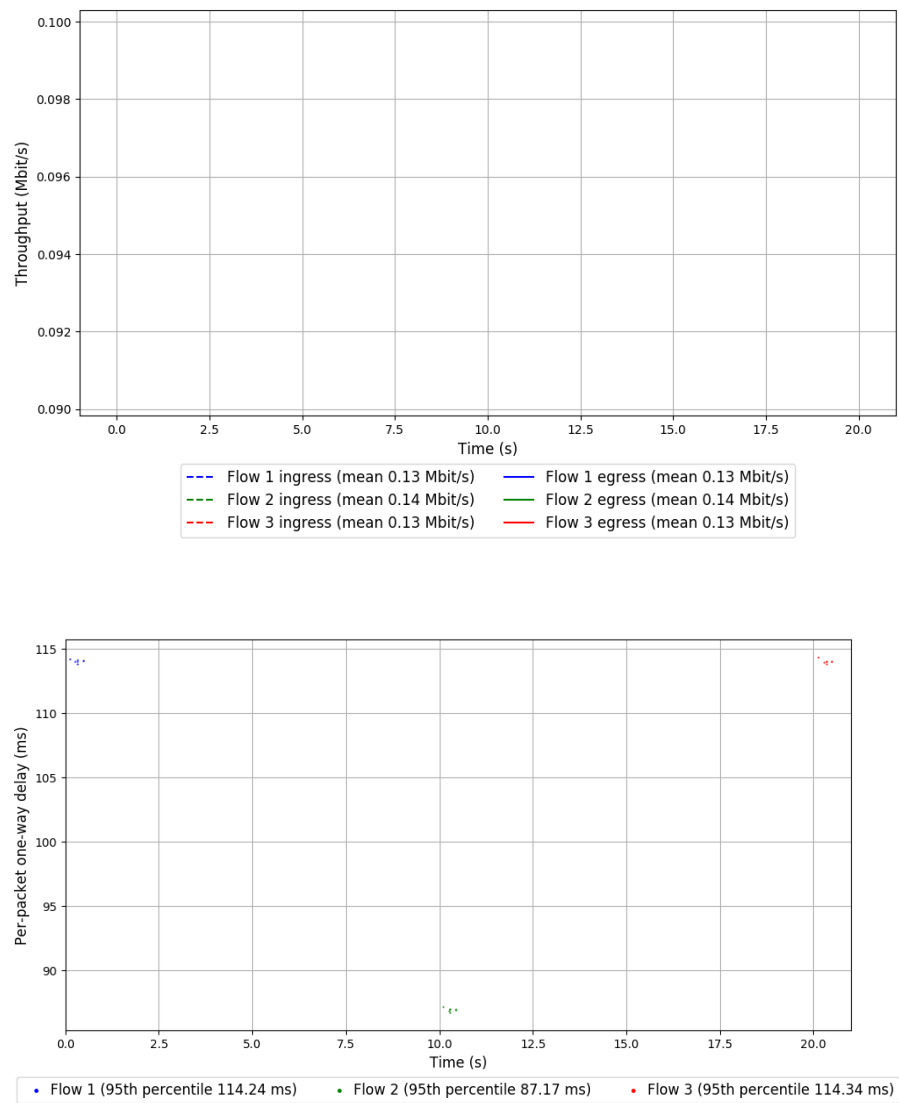


Run 6: Statistics of QUIC Cubic

Start at: 2018-01-26 12:50:04

End at: 2018-01-26 12:50:34

Run 6: Report of QUIC Cubic — Data Link

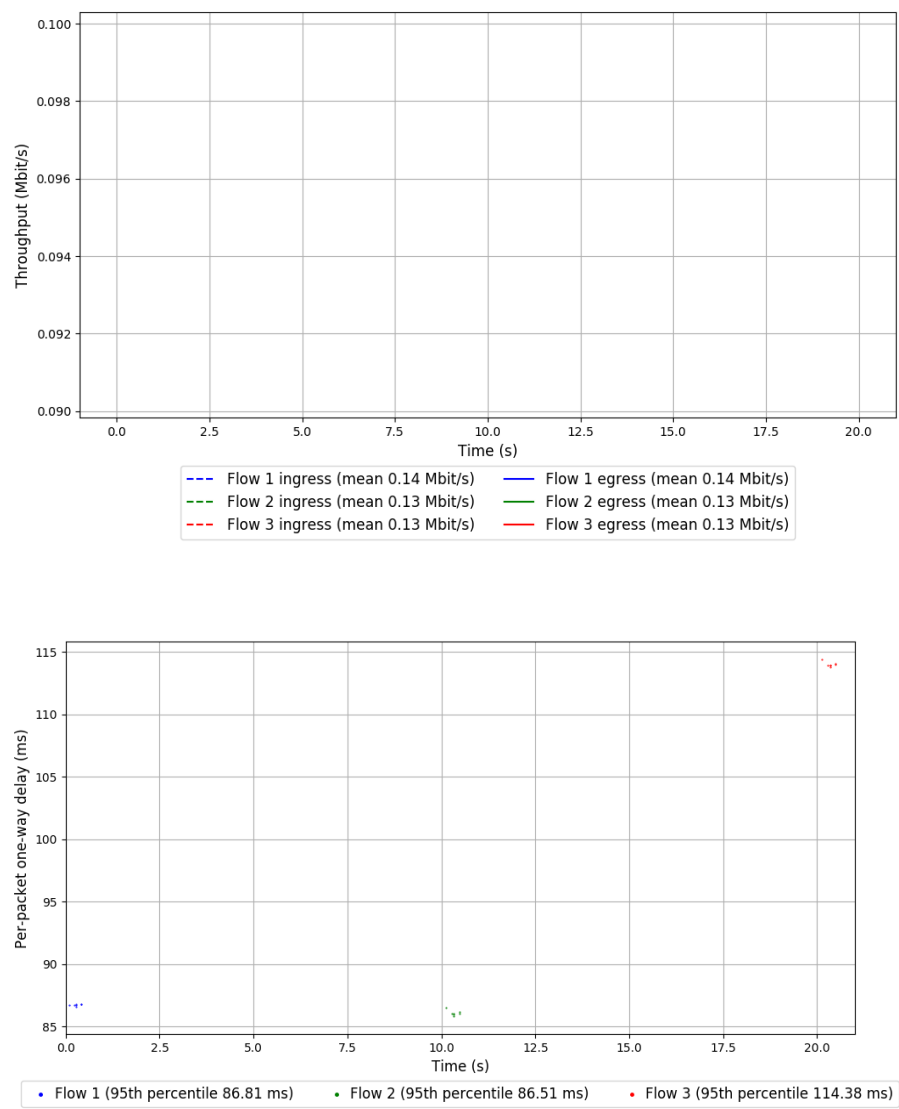


Run 7: Statistics of QUIC Cubic

Start at: 2018-01-26 13:04:47

End at: 2018-01-26 13:05:17

Run 7: Report of QUIC Cubic — Data Link

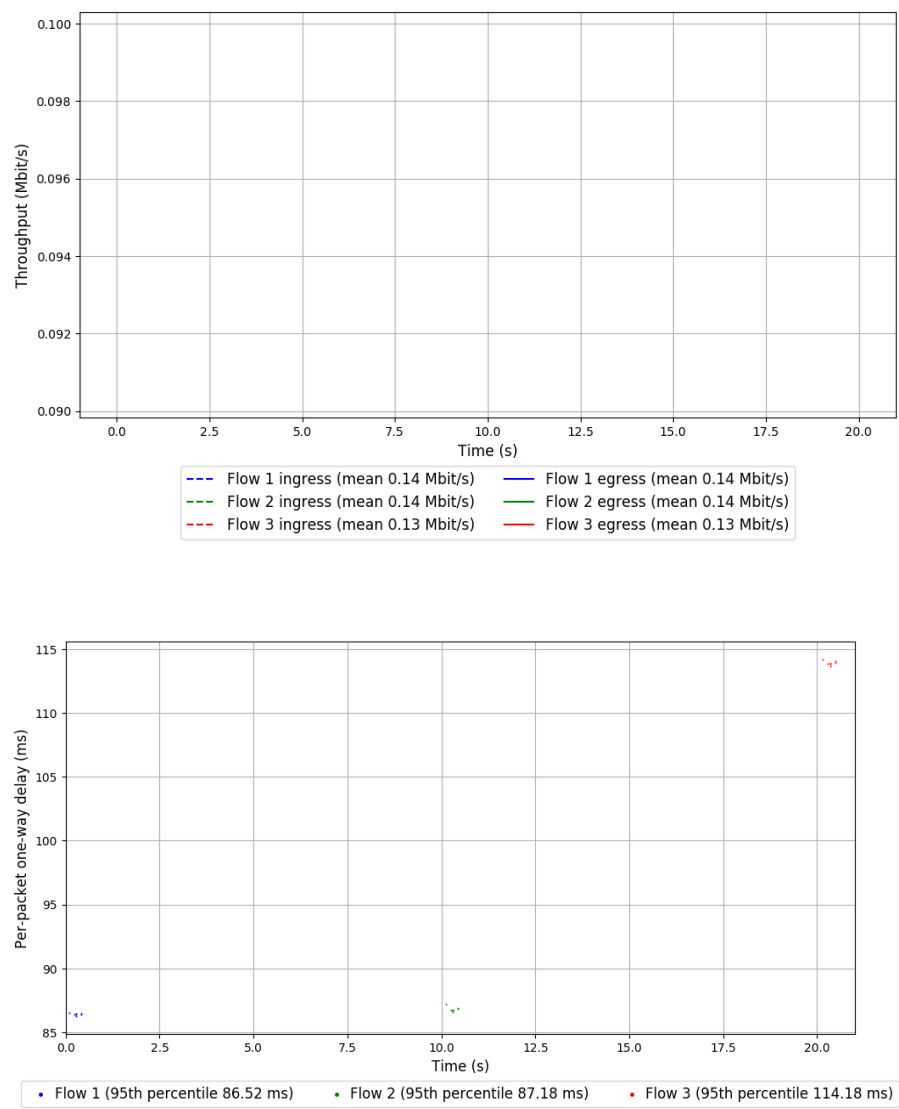


Run 8: Statistics of QUIC Cubic

Start at: 2018-01-26 13:19:33

End at: 2018-01-26 13:20:03

Run 8: Report of QUIC Cubic — Data Link

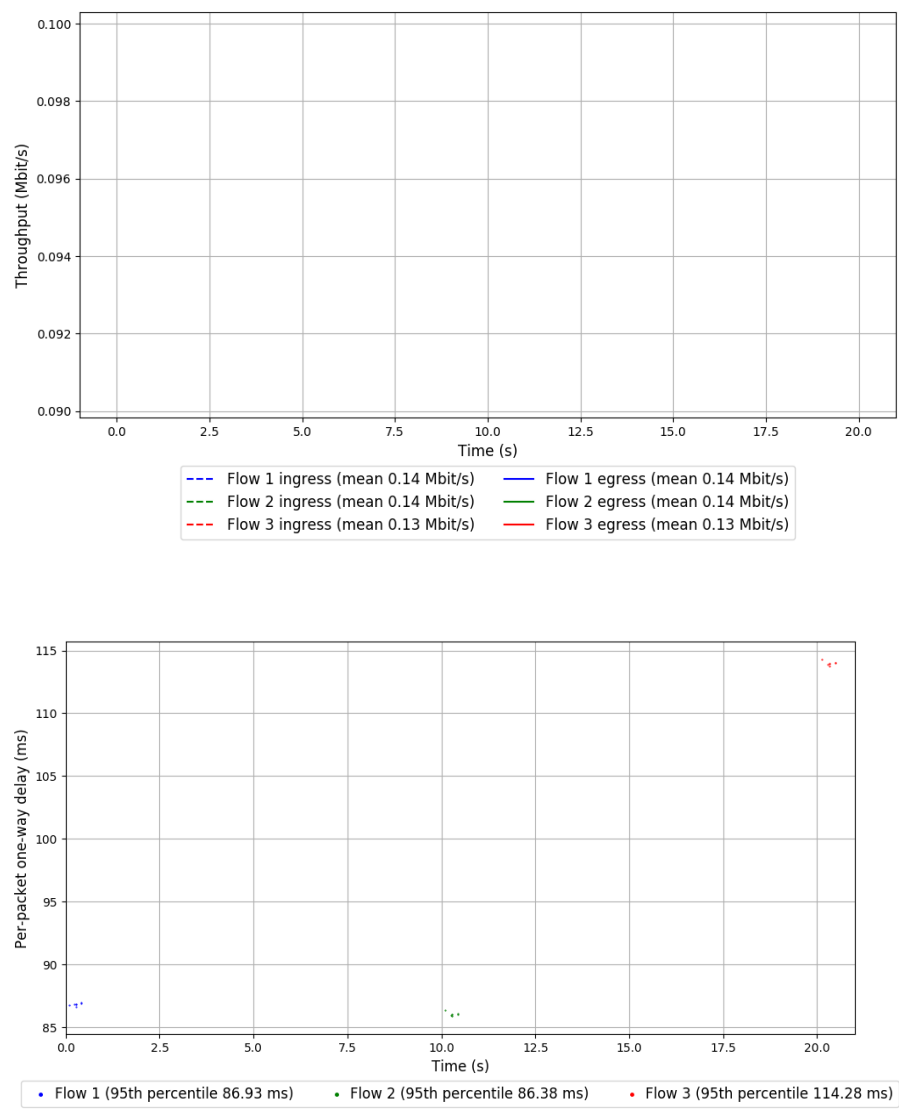


Run 9: Statistics of QUIC Cubic

Start at: 2018-01-26 13:34:25

End at: 2018-01-26 13:34:55

Run 9: Report of QUIC Cubic — Data Link

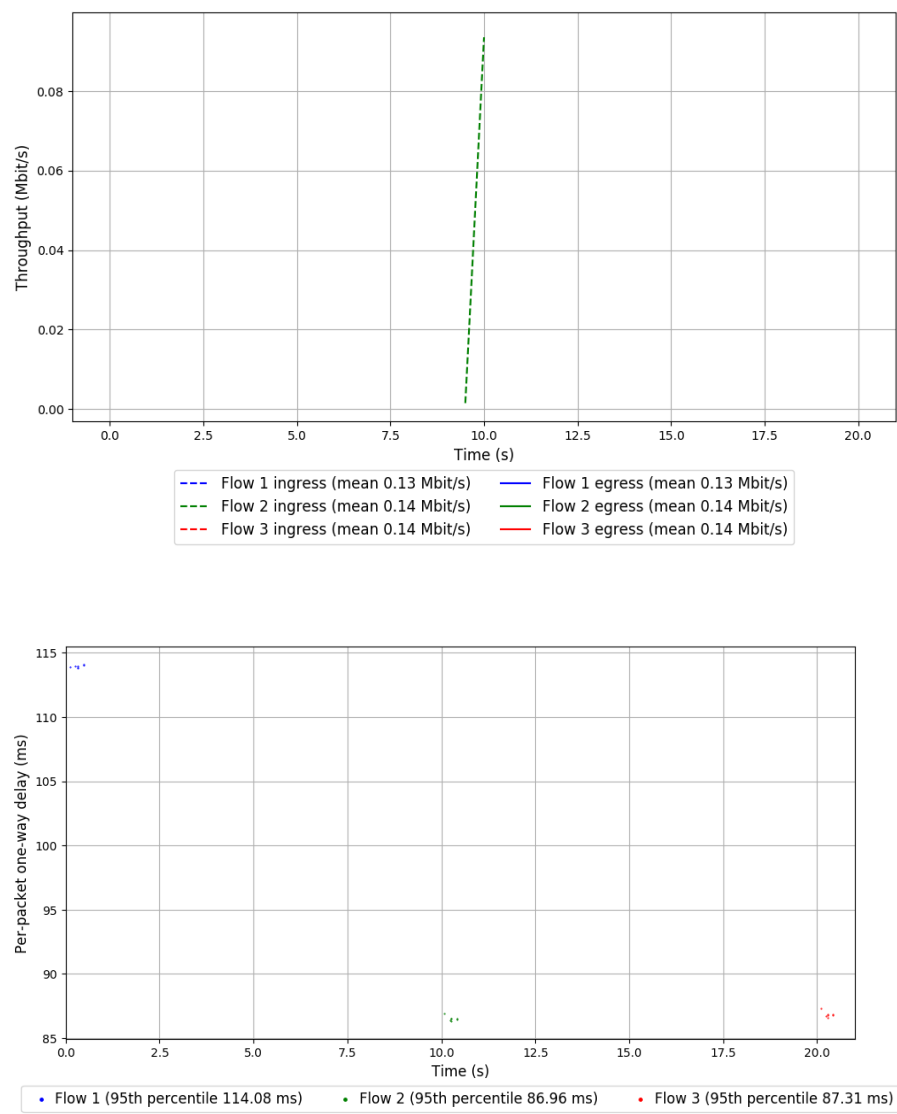


Run 10: Statistics of QUIC Cubic

Start at: 2018-01-26 13:49:12

End at: 2018-01-26 13:49:42

Run 10: Report of QUIC Cubic — Data Link

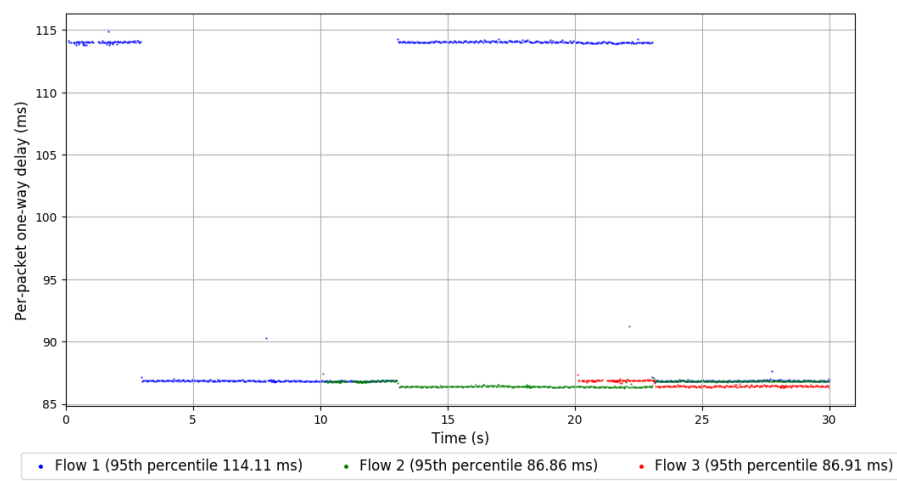
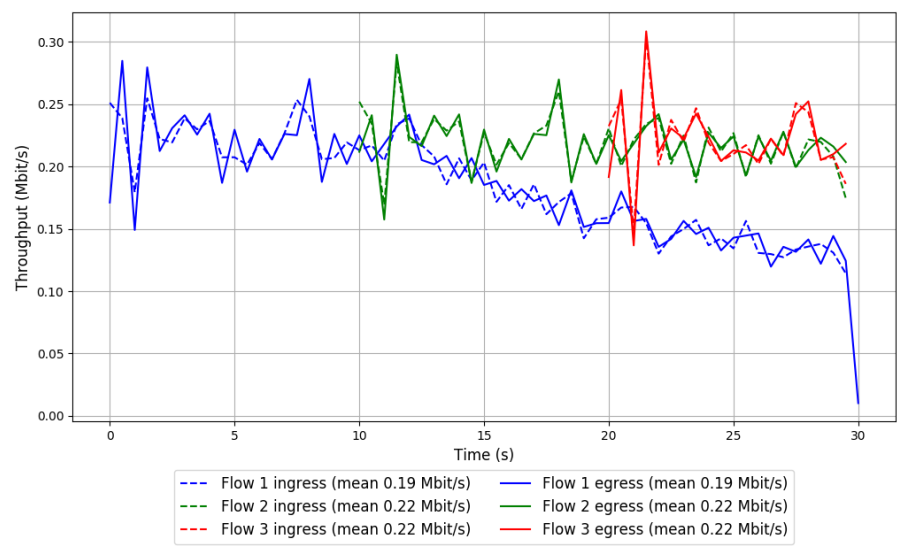


```
Run 1: Statistics of SCReAM

Start at: 2018-01-26 11:49:48
End at: 2018-01-26 11:50:18

# Below is generated by plot.py at 2018-01-26 15:35:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 114.072 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 114.106 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.864 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.906 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

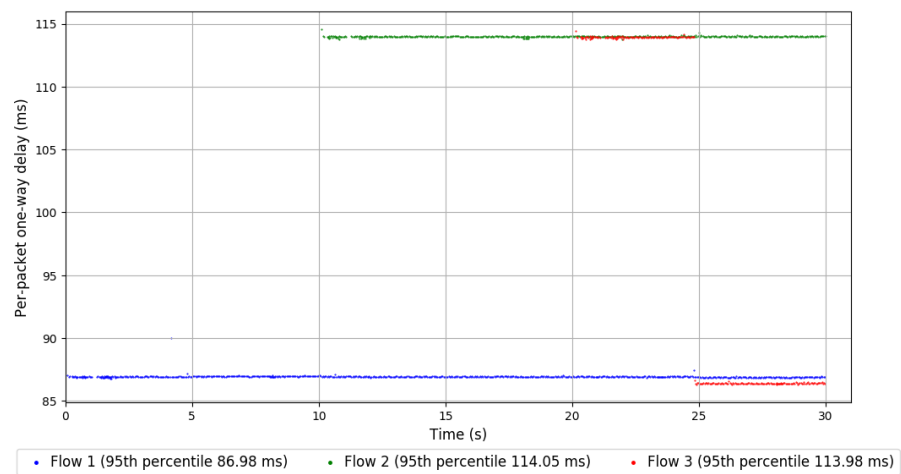
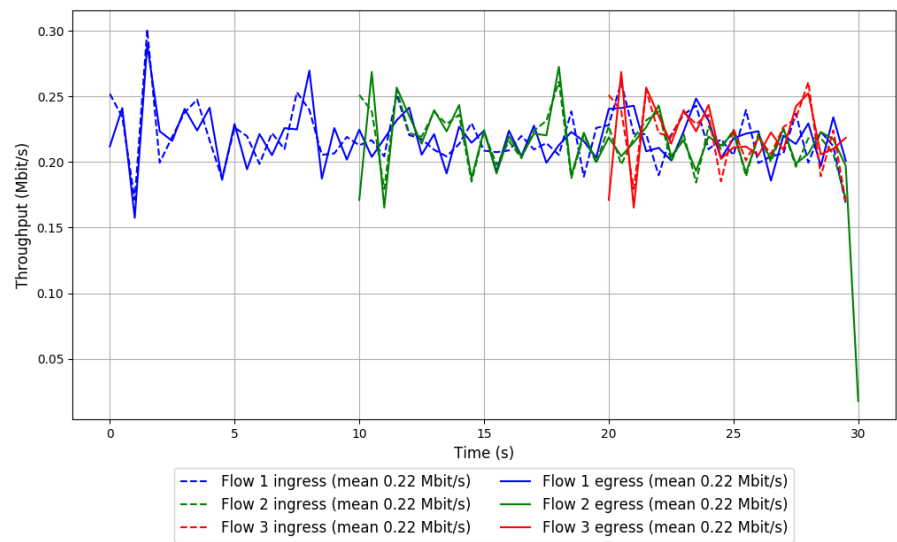


```
Run 2: Statistics of SReAM

Start at: 2018-01-26 12:04:26
End at: 2018-01-26 12:04:56

# Below is generated by plot.py at 2018-01-26 15:35:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 114.023 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.985 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.046 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.985 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-01-26 12:19:14

End at: 2018-01-26 12:19:44

Below is generated by plot.py at 2018-01-26 15:35:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 114.100 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.004 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.131 ms

Loss rate: 0.00%

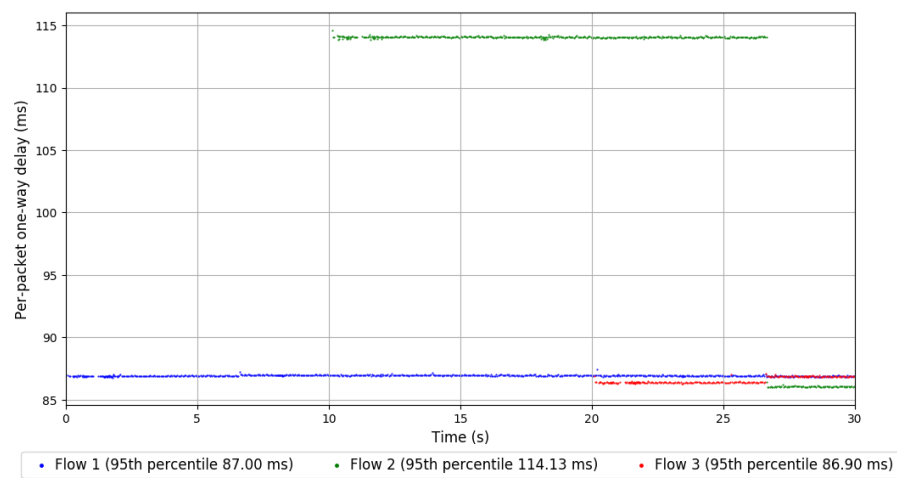
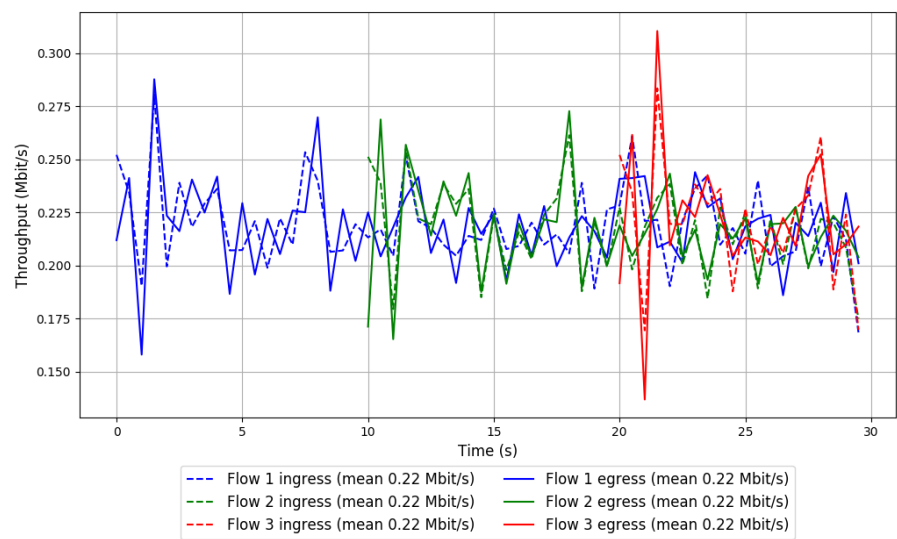
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.899 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

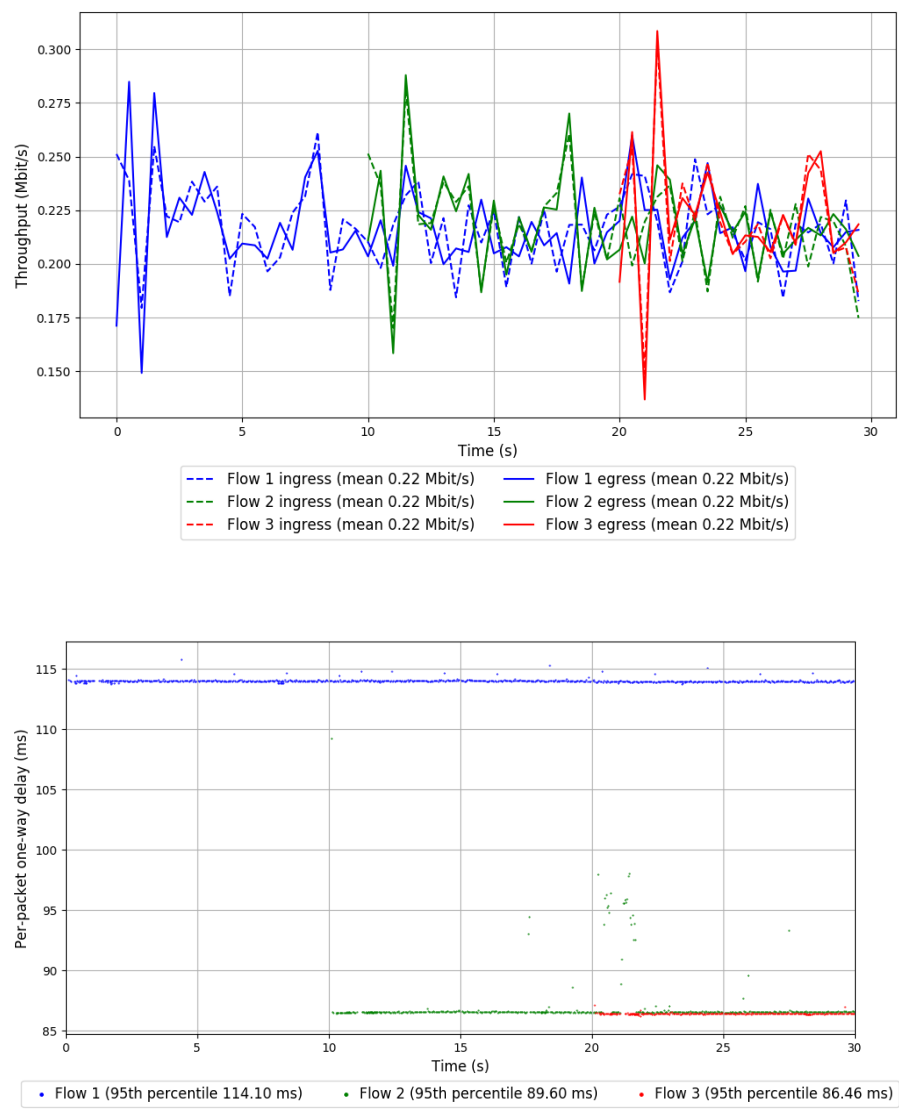


```
Run 4: Statistics of SCReAM

Start at: 2018-01-26 12:33:50
End at: 2018-01-26 12:34:20

# Below is generated by plot.py at 2018-01-26 15:35:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 114.062 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.099 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 89.599 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.460 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-01-26 12:48:22

End at: 2018-01-26 12:48:52

Below is generated by plot.py at 2018-01-26 15:35:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.914 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.931 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.355 ms

Loss rate: 0.00%

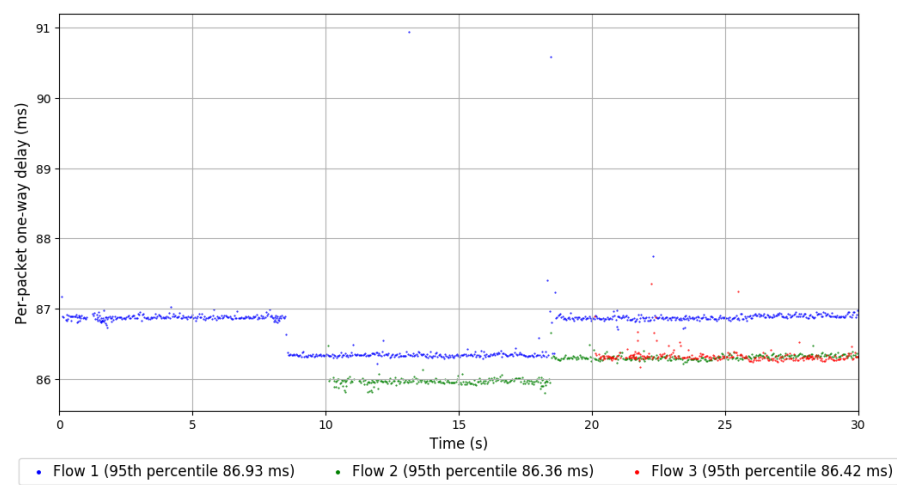
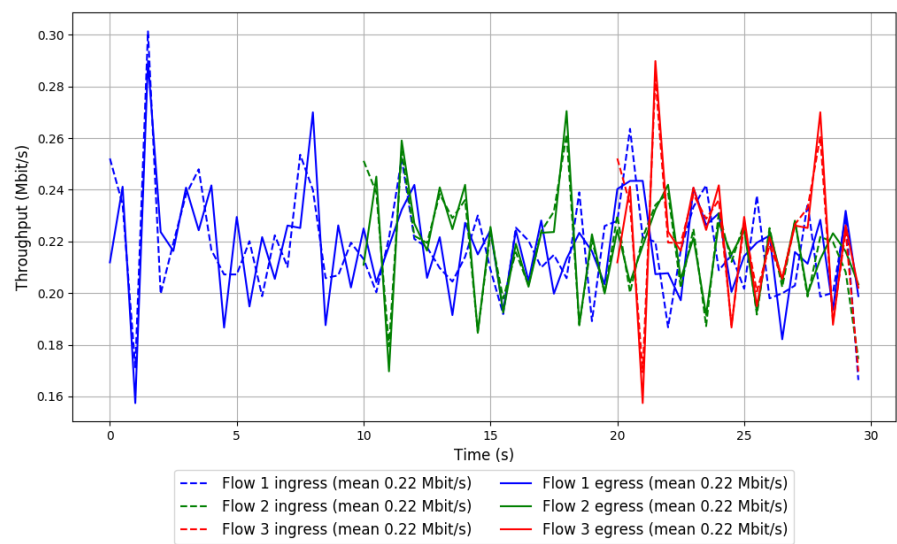
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.424 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-01-26 13:03:05

End at: 2018-01-26 13:03:35

Below is generated by plot.py at 2018-01-26 15:35:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.999 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.969 ms

Loss rate: 0.00%

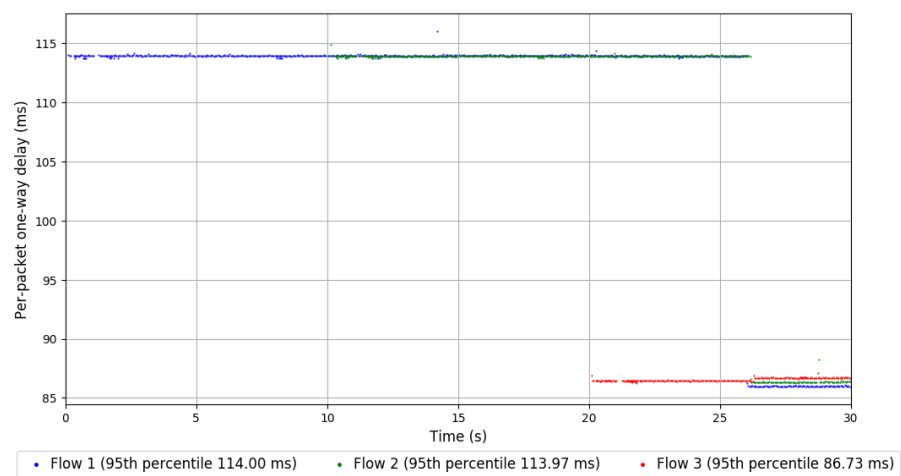
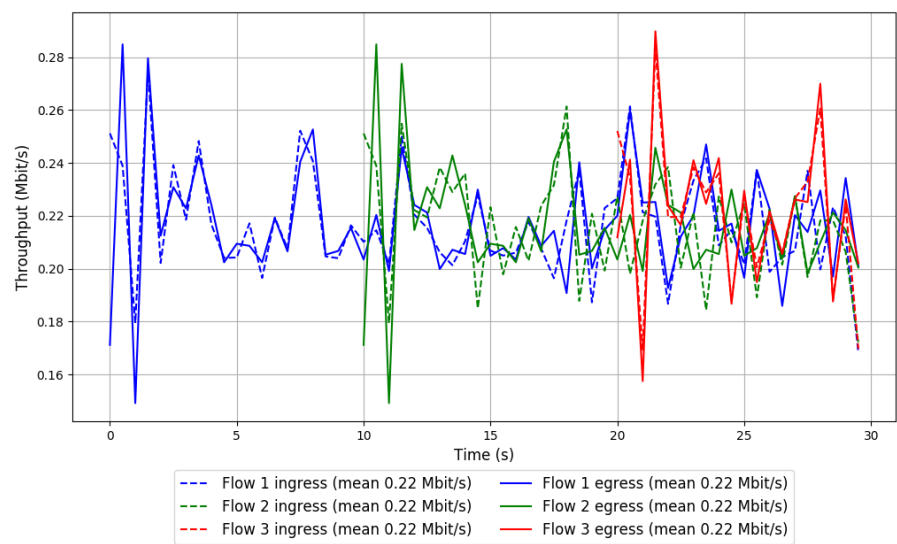
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.733 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

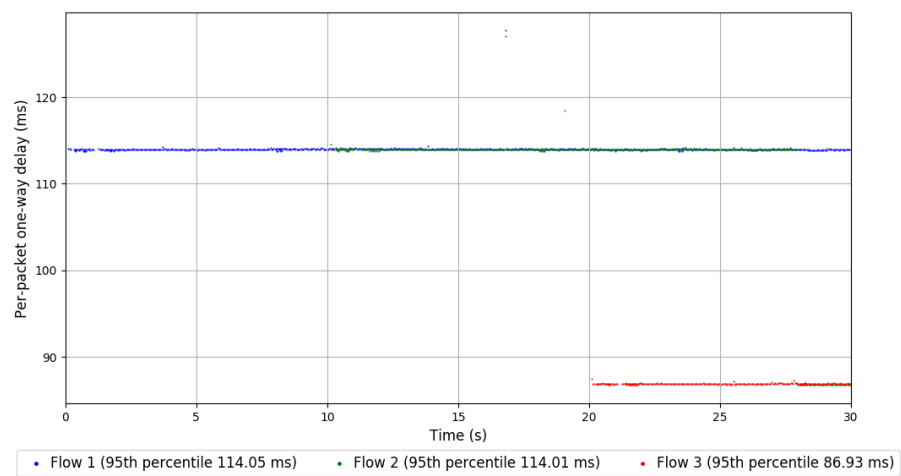
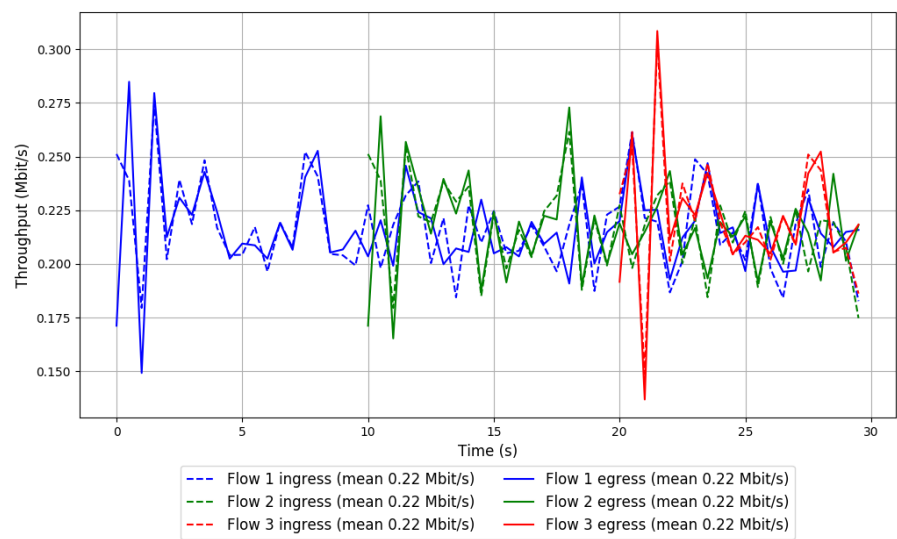


```
Run 7: Statistics of SReAM

Start at: 2018-01-26 13:17:53
End at: 2018-01-26 13:18:23

# Below is generated by plot.py at 2018-01-26 15:35:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 114.034 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.054 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.008 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.929 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-26 13:32:41

End at: 2018-01-26 13:33:11

Below is generated by plot.py at 2018-01-26 15:35:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 114.044 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.059 ms

Loss rate: 0.00%

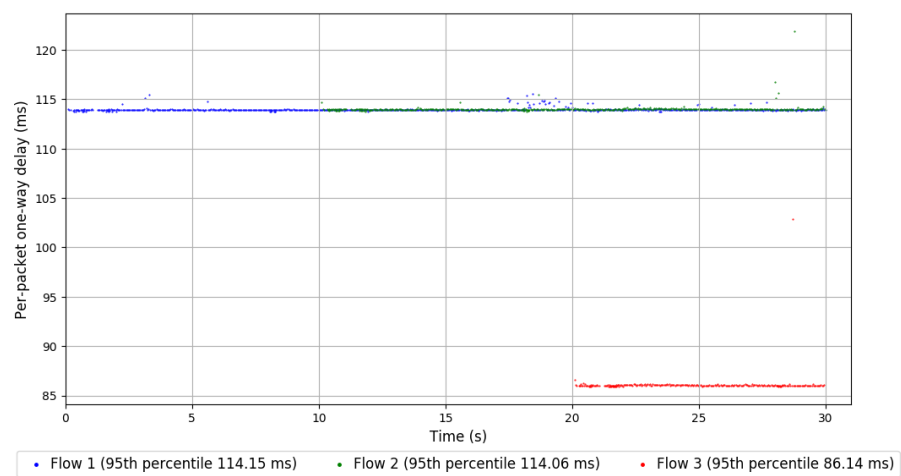
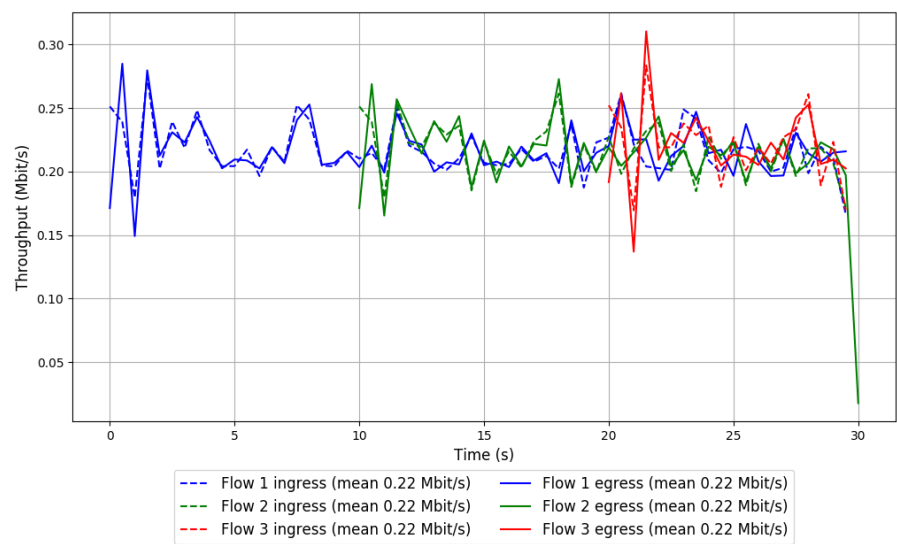
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.145 ms

Loss rate: 0.35%

Run 8: Report of SCSReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-26 13:47:29

End at: 2018-01-26 13:47:59

Below is generated by plot.py at 2018-01-26 15:35:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 113.959 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 113.986 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.488 ms

Loss rate: 0.00%

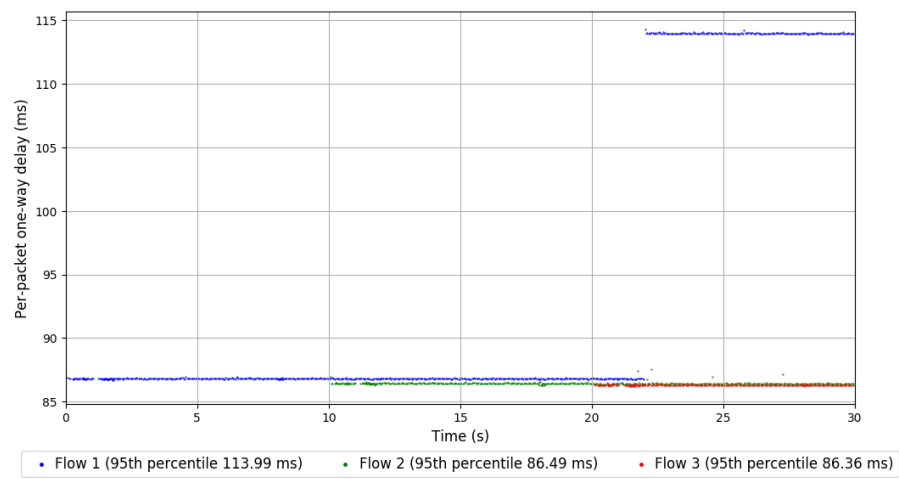
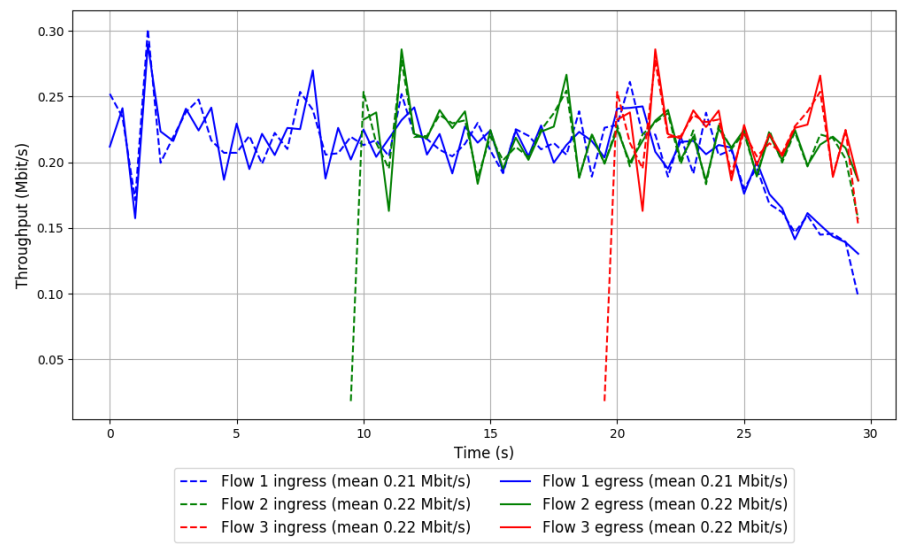
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.355 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

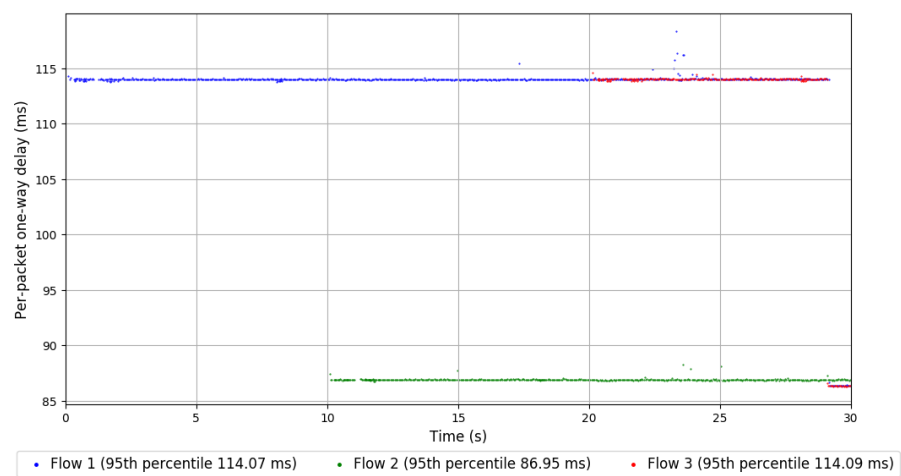
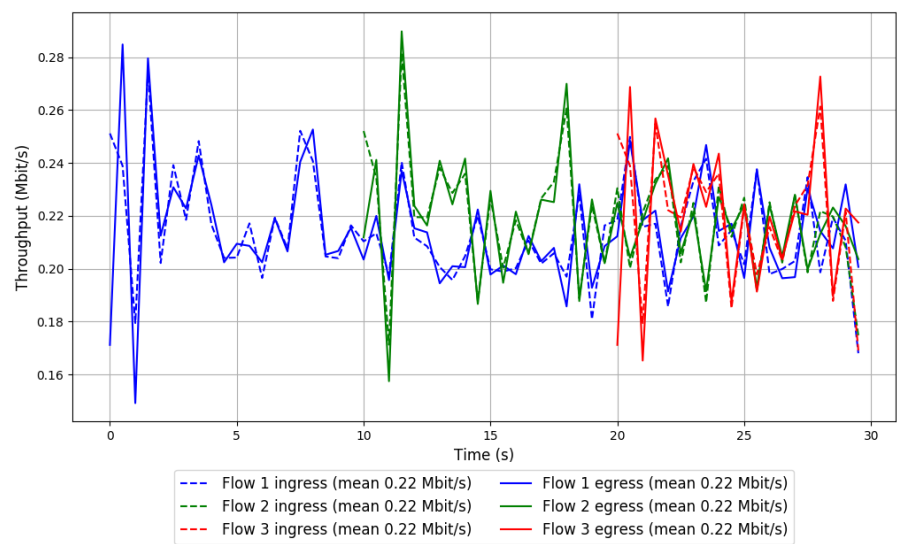


```
Run 10: Statistics of SReAM

Start at: 2018-01-26 14:02:22
End at: 2018-01-26 14:02:52

# Below is generated by plot.py at 2018-01-26 15:35:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 114.059 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.070 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.949 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.088 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

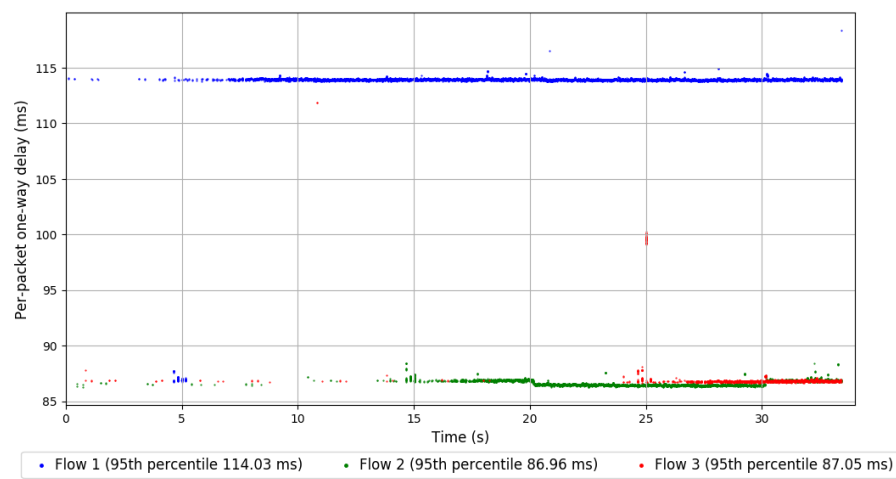
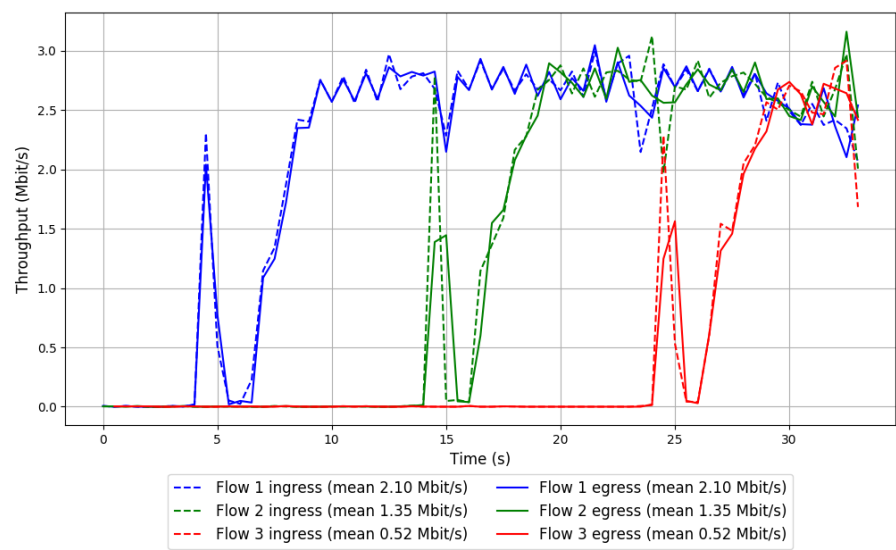


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-26 11:49:04
End at: 2018-01-26 11:49:34

# Below is generated by plot.py at 2018-01-26 15:35:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.94 Mbit/s
95th percentile per-packet one-way delay: 113.997 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 114.025 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 1.35 Mbit/s
95th percentile per-packet one-way delay: 86.959 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 87.054 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

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

End at: 2018-01-26 12:04:12

Below is generated by plot.py at 2018-01-26 15:35:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 114.079 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 2.10 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 114.016 ms

Loss rate: 0.00%

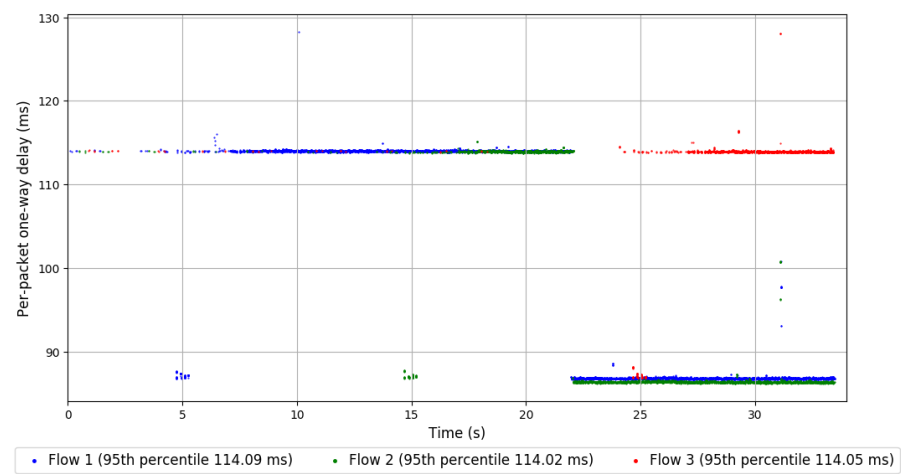
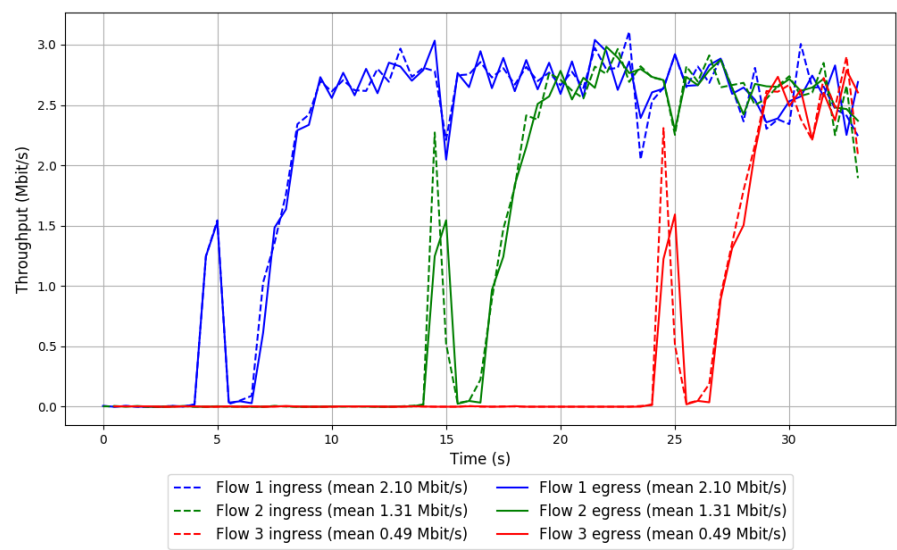
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 114.050 ms

Loss rate: 0.78%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-26 12:18:30

End at: 2018-01-26 12:19:00

Below is generated by plot.py at 2018-01-26 15:35:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.96 Mbit/s

95th percentile per-packet one-way delay: 86.953 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 86.981 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 86.893 ms

Loss rate: 0.00%

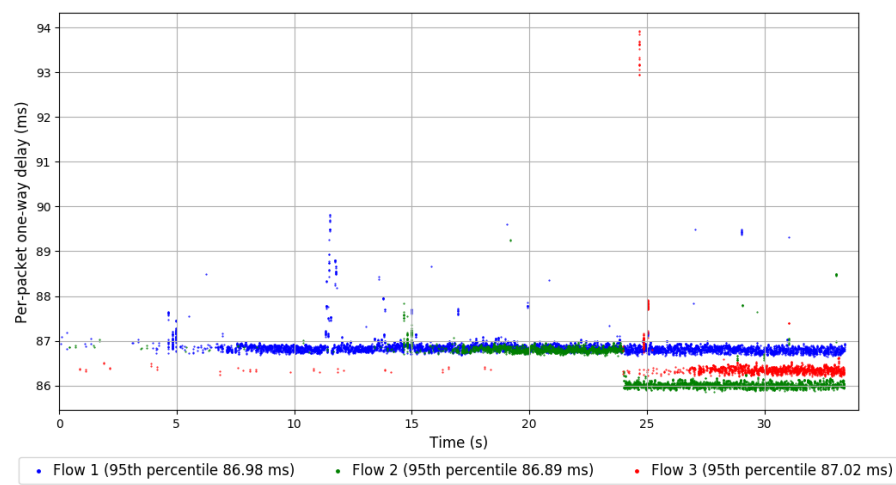
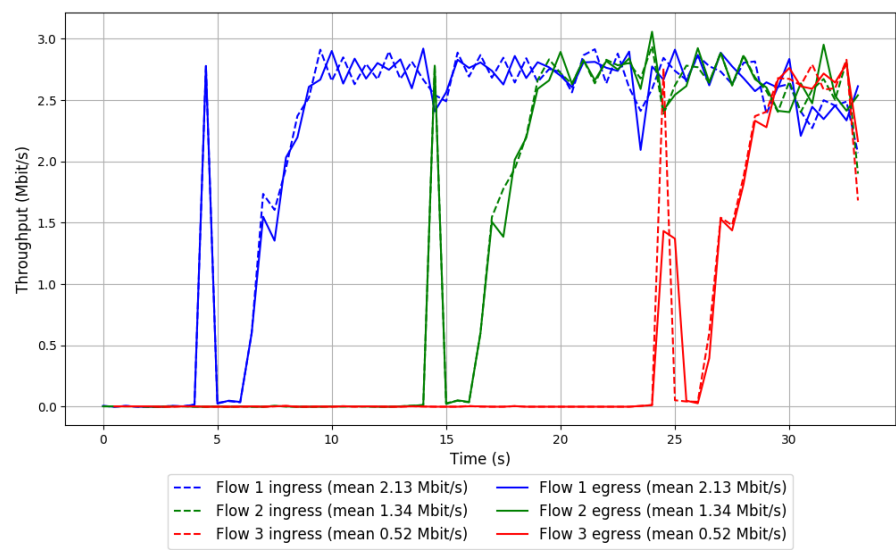
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 87.018 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

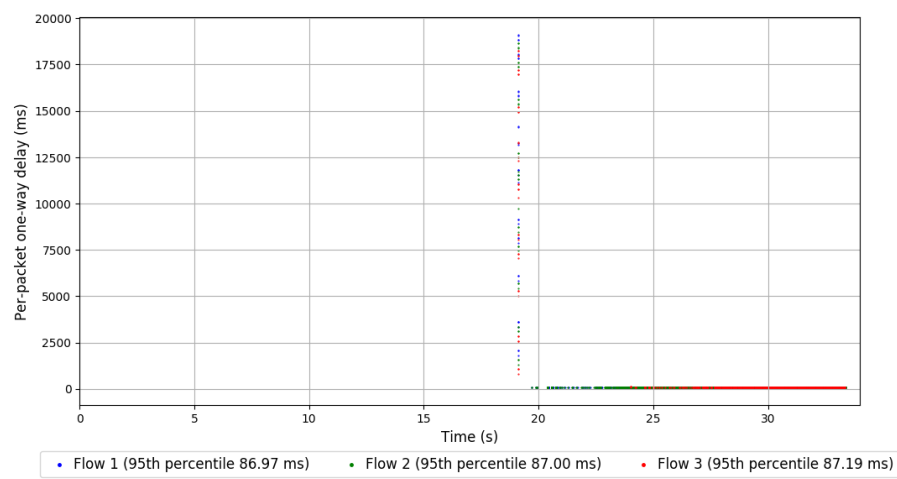
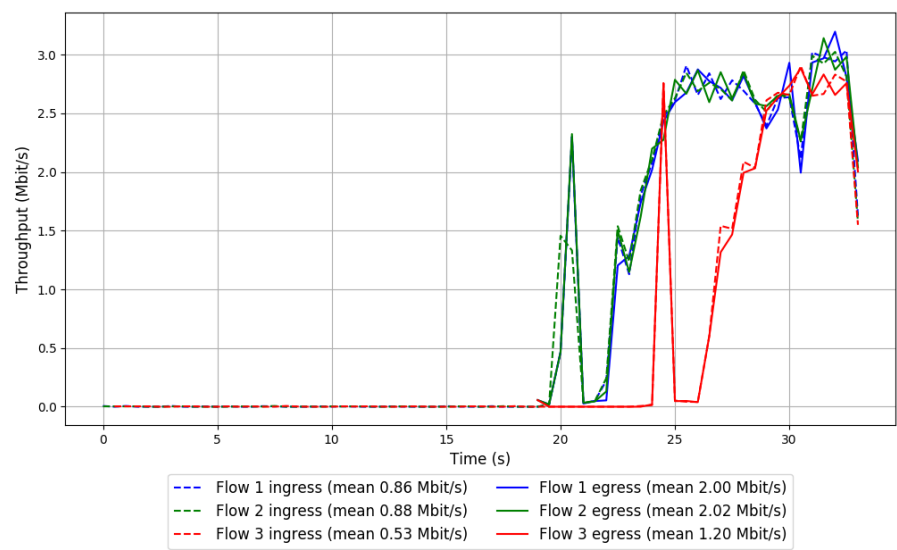


Run 4: Statistics of WebRTC media

Start at: 2018-01-26 12:33:06

End at: 2018-01-26 12:33:36

Run 4: Report of WebRTC media — Data Link

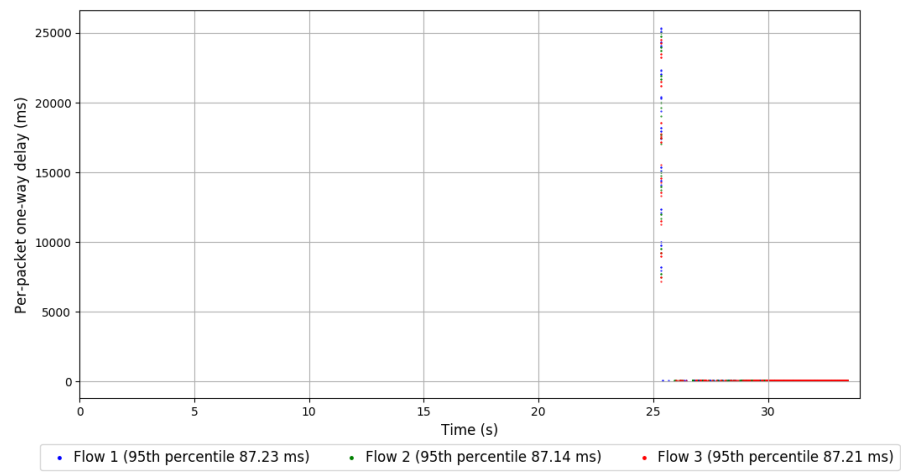
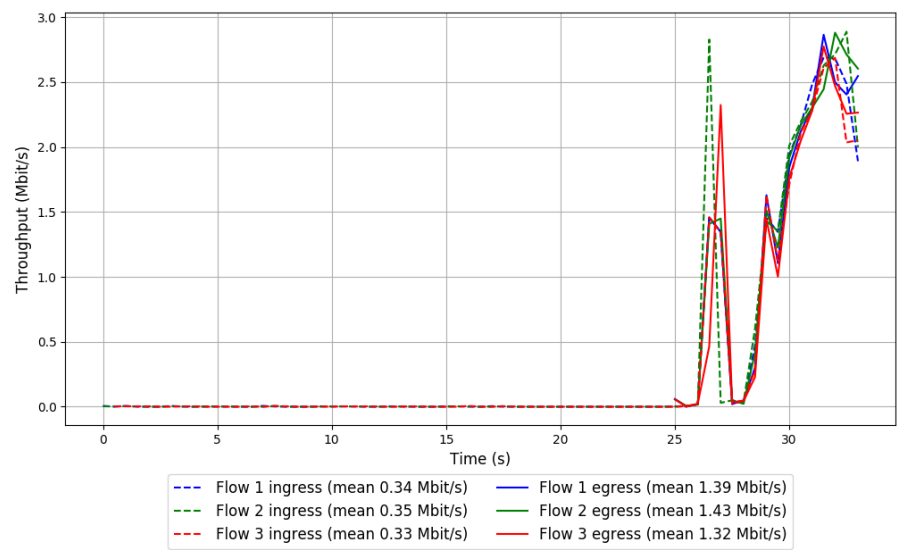


Run 5: Statistics of WebRTC media

Start at: 2018-01-26 12:47:39

End at: 2018-01-26 12:48:09

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-26 13:02:21

End at: 2018-01-26 13:02:51

Below is generated by plot.py at 2018-01-26 15:35:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 114.002 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 114.027 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 86.897 ms

Loss rate: 0.00%

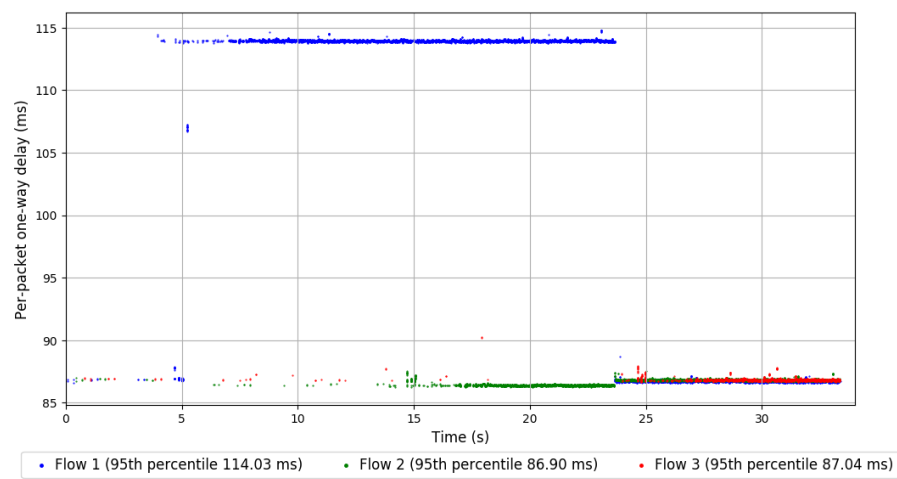
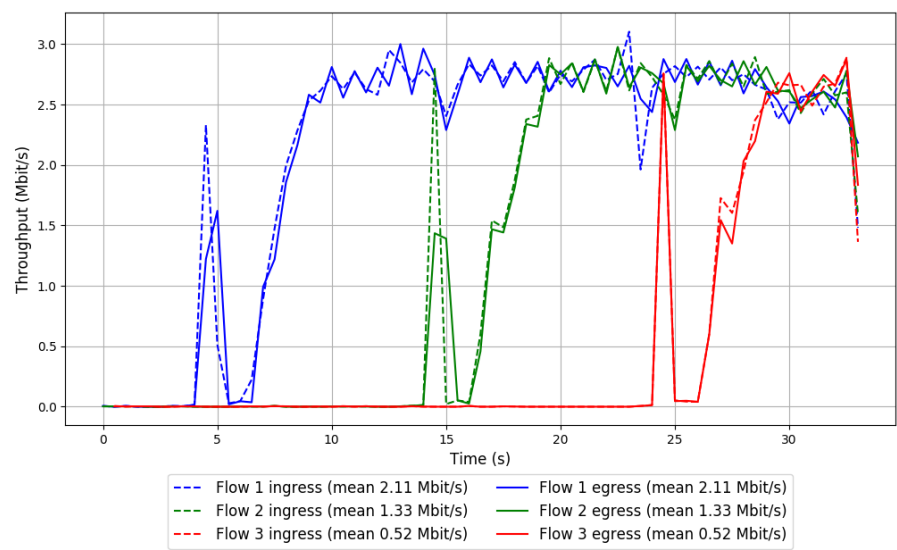
-- Flow 3:

Average throughput: 0.52 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-26 13:17:08

End at: 2018-01-26 13:17:38

Below is generated by plot.py at 2018-01-26 15:35:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 113.932 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 113.953 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 86.822 ms

Loss rate: 0.00%

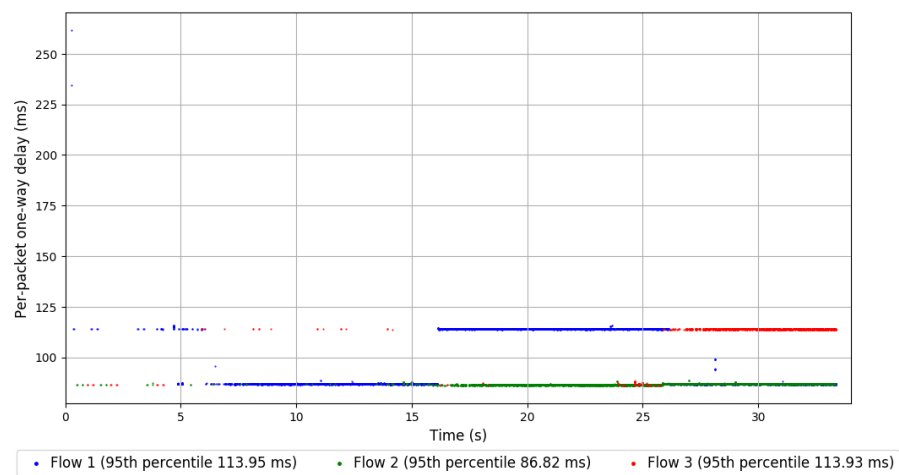
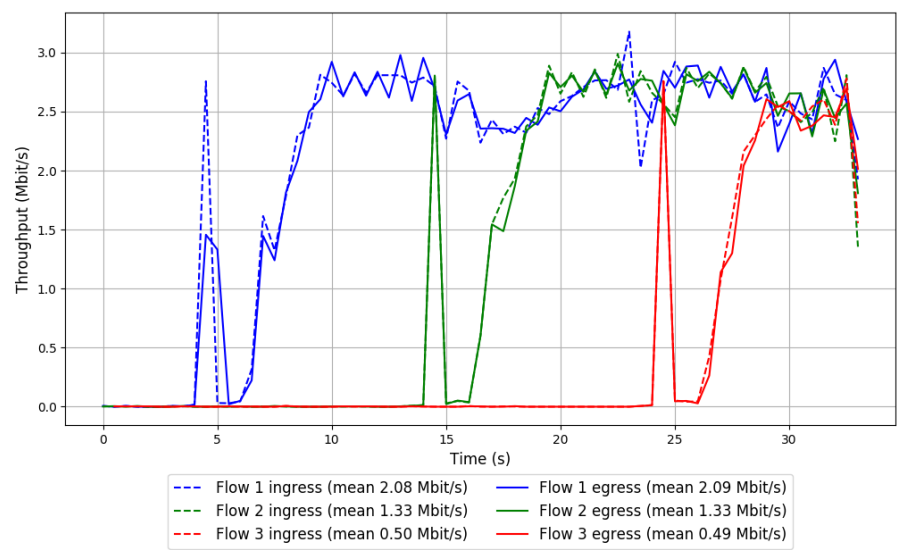
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 113.931 ms

Loss rate: 0.90%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-26 13:31:57

End at: 2018-01-26 13:32:27

Below is generated by plot.py at 2018-01-26 15:35:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.97 Mbit/s

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

Loss rate: 0.16%

-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 114.012 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 113.960 ms

Loss rate: 0.27%

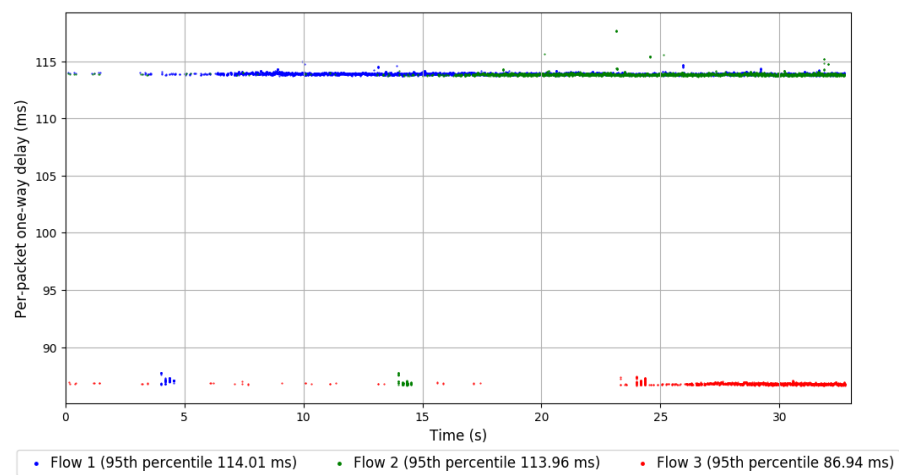
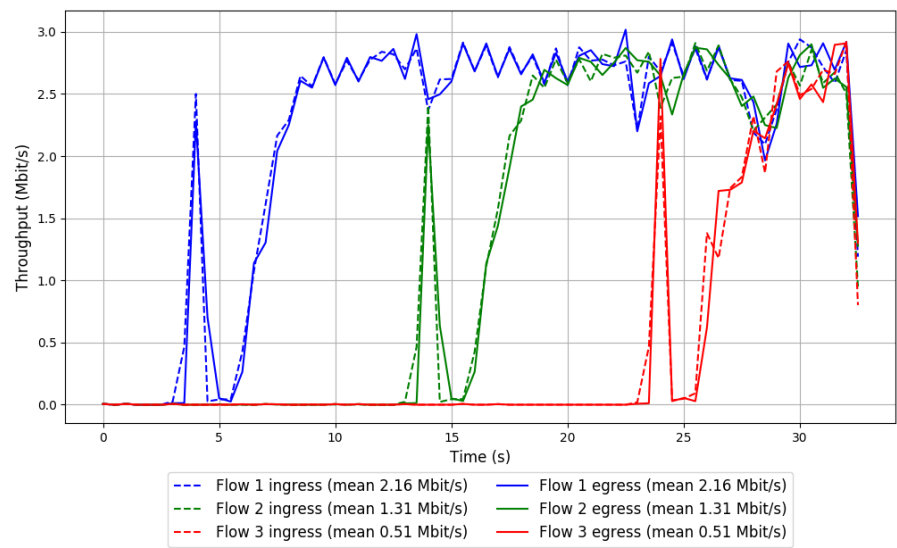
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 86.939 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

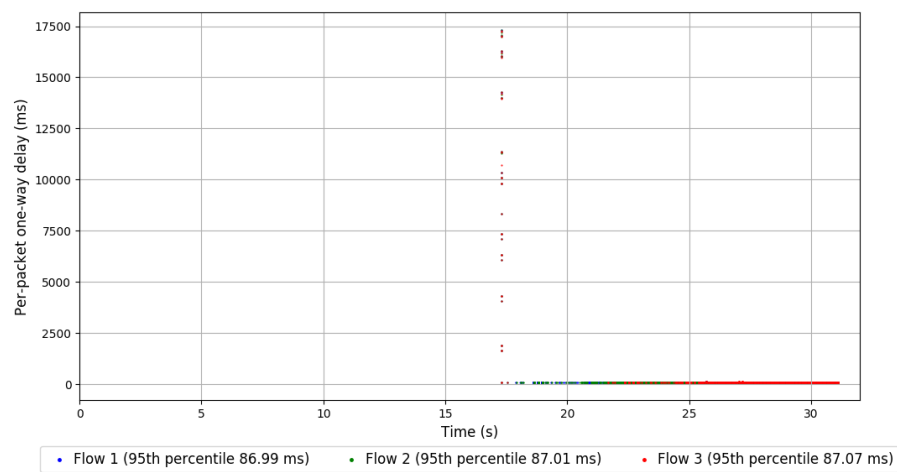
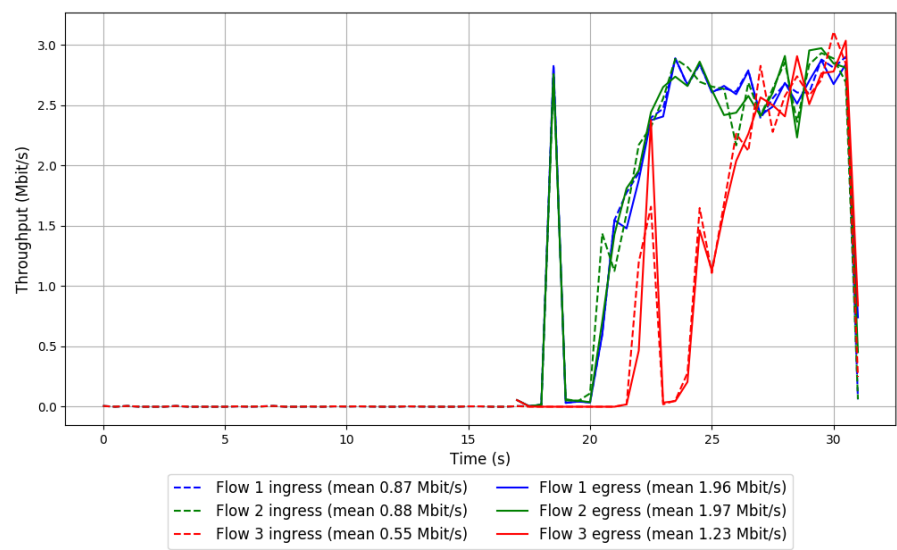


Run 9: Statistics of WebRTC media

Start at: 2018-01-26 13:46:45

End at: 2018-01-26 13:47:15

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

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

End at: 2018-01-26 14:02:08

Below is generated by plot.py at 2018-01-26 15:35:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 86.979 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 86.946 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 86.989 ms

Loss rate: 0.00%

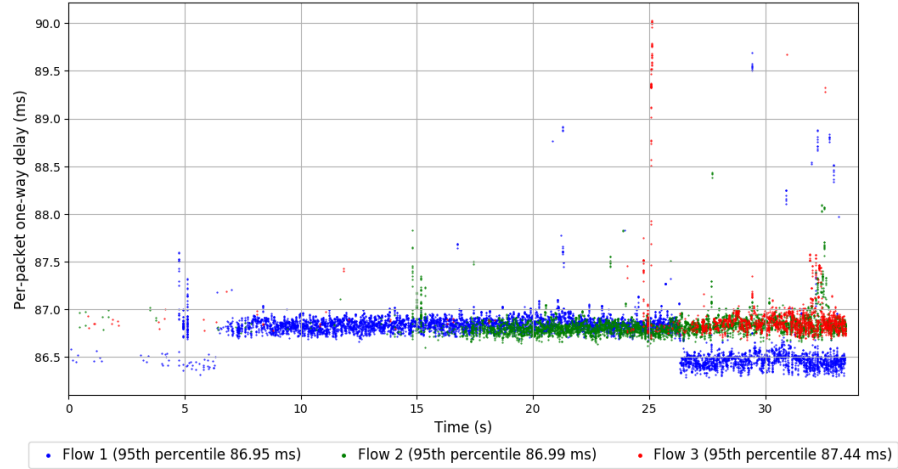
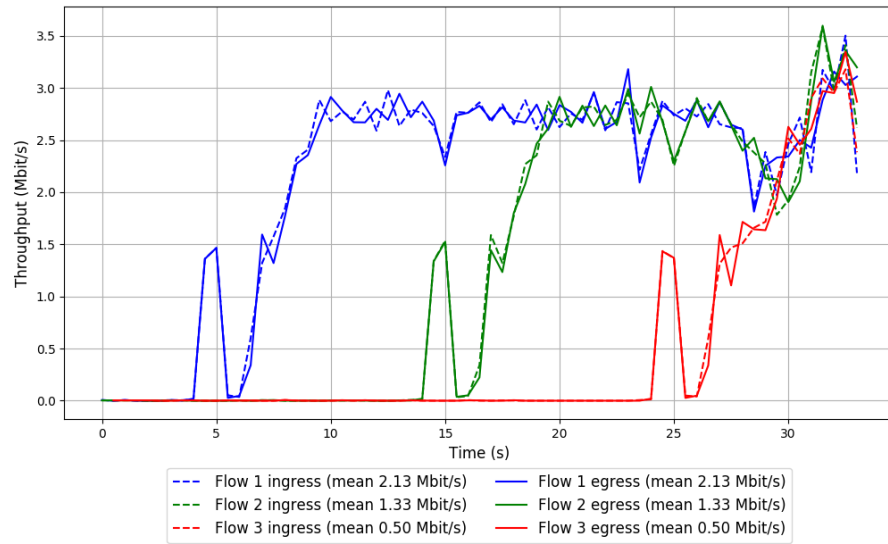
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 87.437 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

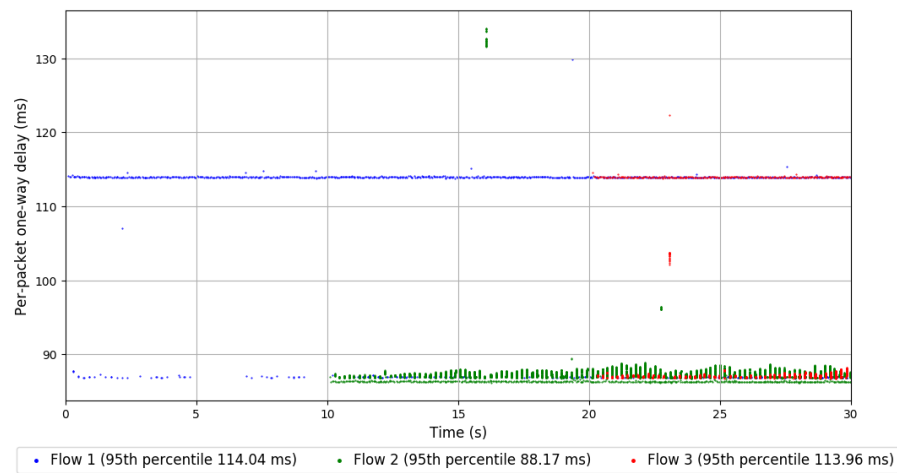
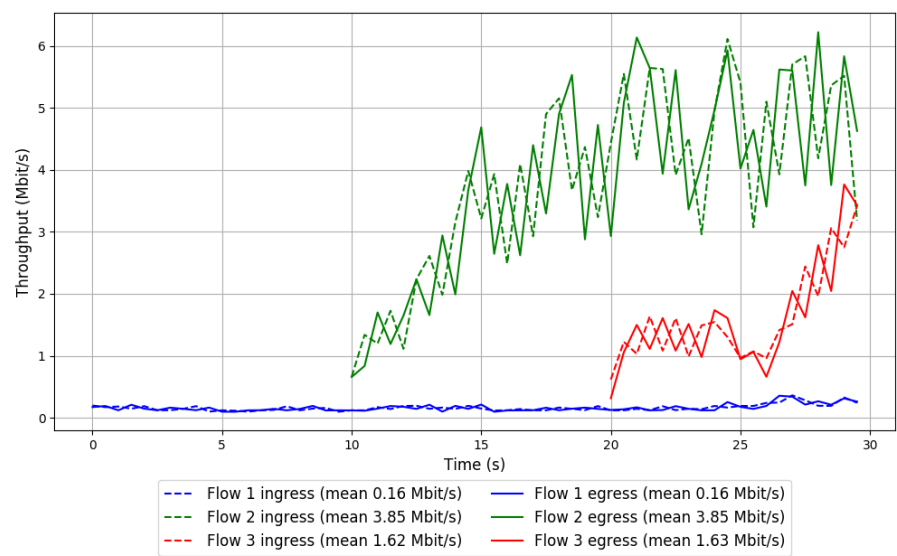


```
Run 1: Statistics of Sprout

Start at: 2018-01-26 11:41:50
End at: 2018-01-26 11:42:20

# Below is generated by plot.py at 2018-01-26 15:35:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.26 Mbit/s
95th percentile per-packet one-way delay: 113.949 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 114.037 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.85 Mbit/s
95th percentile per-packet one-way delay: 88.168 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.63 Mbit/s
95th percentile per-packet one-way delay: 113.964 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-26 11:56:45

End at: 2018-01-26 11:57:15

Below is generated by plot.py at 2018-01-26 15:35:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.40 Mbit/s

95th percentile per-packet one-way delay: 88.116 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 3.60 Mbit/s

95th percentile per-packet one-way delay: 88.294 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 2.65 Mbit/s

95th percentile per-packet one-way delay: 88.041 ms

Loss rate: 0.00%

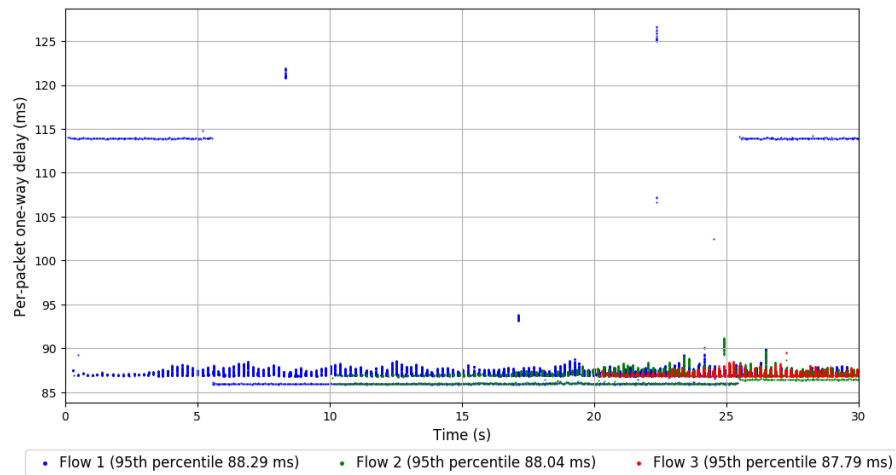
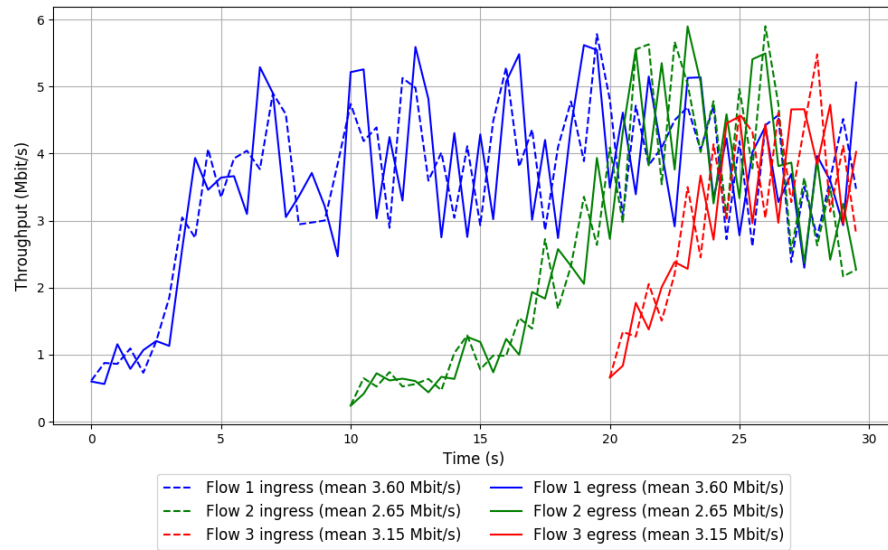
-- Flow 3:

Average throughput: 3.15 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-26 12:11:29

End at: 2018-01-26 12:11:59

Below is generated by plot.py at 2018-01-26 15:35:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.48 Mbit/s

95th percentile per-packet one-way delay: 88.300 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 4.38 Mbit/s

95th percentile per-packet one-way delay: 88.428 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.10 Mbit/s

95th percentile per-packet one-way delay: 88.177 ms

Loss rate: 1.44%

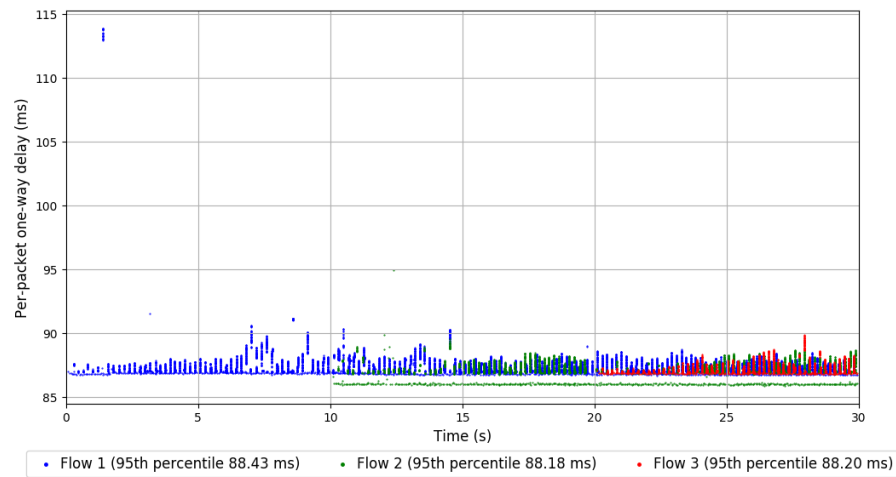
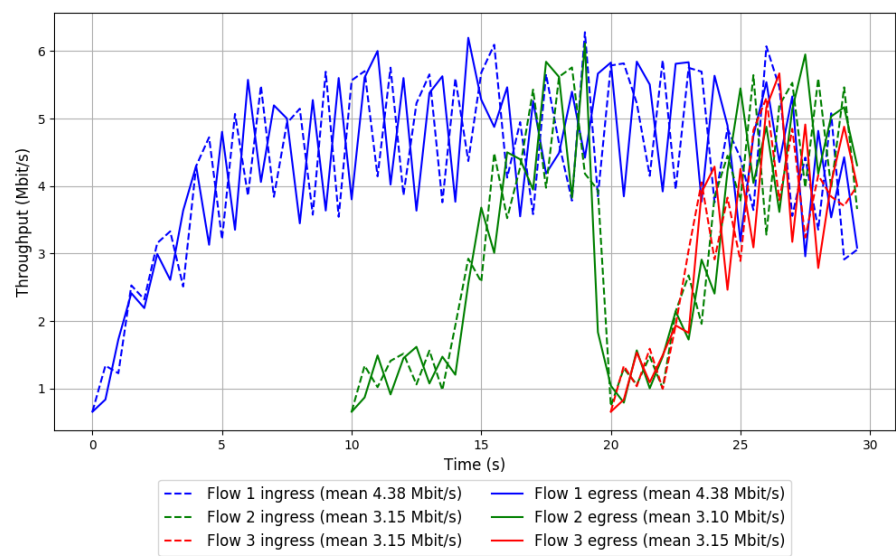
-- Flow 3:

Average throughput: 3.15 Mbit/s

95th percentile per-packet one-way delay: 88.201 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-26 12:26:13

End at: 2018-01-26 12:26:43

Below is generated by plot.py at 2018-01-26 15:35:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.28 Mbit/s

95th percentile per-packet one-way delay: 88.869 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 88.142 ms

Loss rate: 2.62%

-- Flow 2:

Average throughput: 2.66 Mbit/s

95th percentile per-packet one-way delay: 113.877 ms

Loss rate: 0.78%

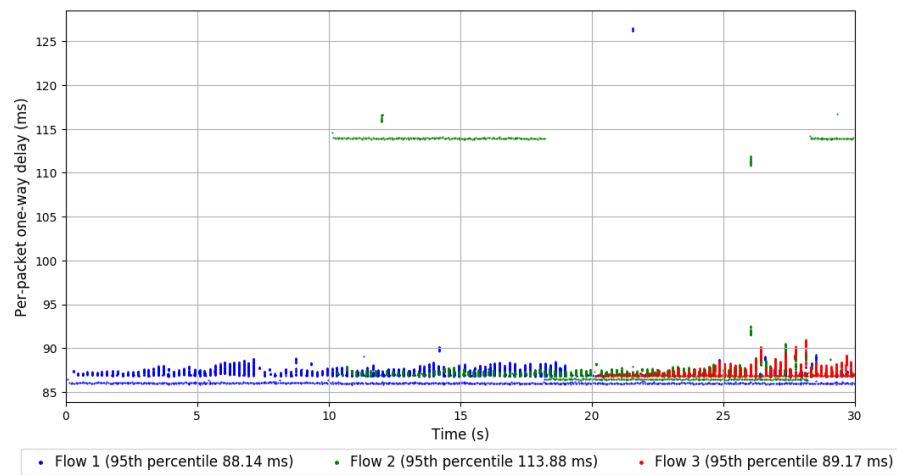
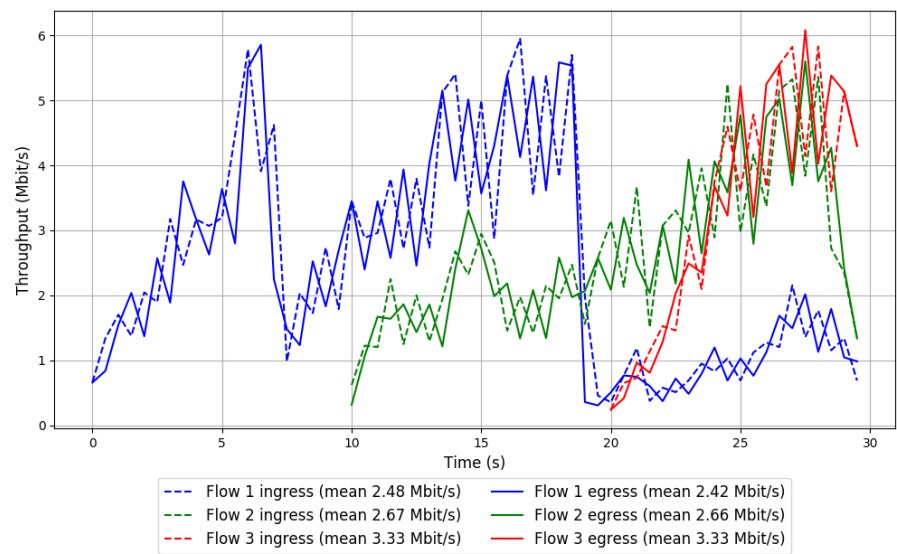
-- Flow 3:

Average throughput: 3.33 Mbit/s

95th percentile per-packet one-way delay: 89.165 ms

Loss rate: 0.04%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-26 12:40:55

End at: 2018-01-26 12:41:25

Below is generated by plot.py at 2018-01-26 15:35:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.54 Mbit/s

95th percentile per-packet one-way delay: 88.164 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 2.93 Mbit/s

95th percentile per-packet one-way delay: 88.150 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 3.35 Mbit/s

95th percentile per-packet one-way delay: 88.231 ms

Loss rate: 0.04%

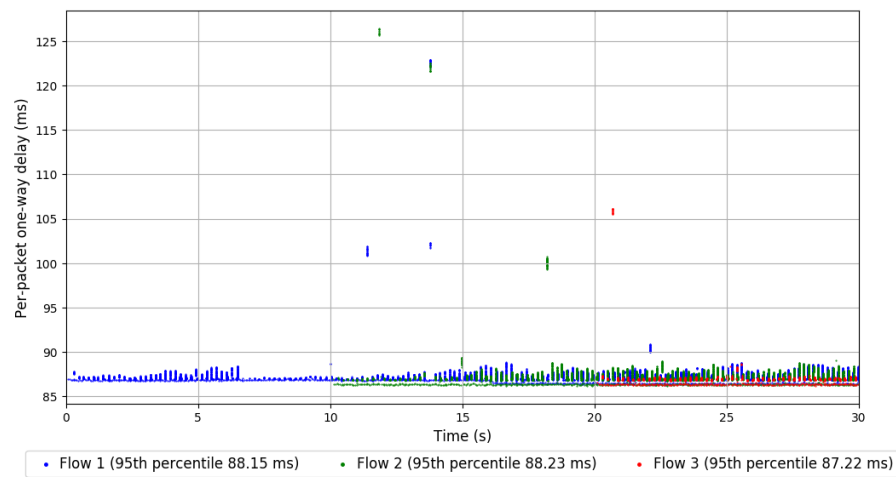
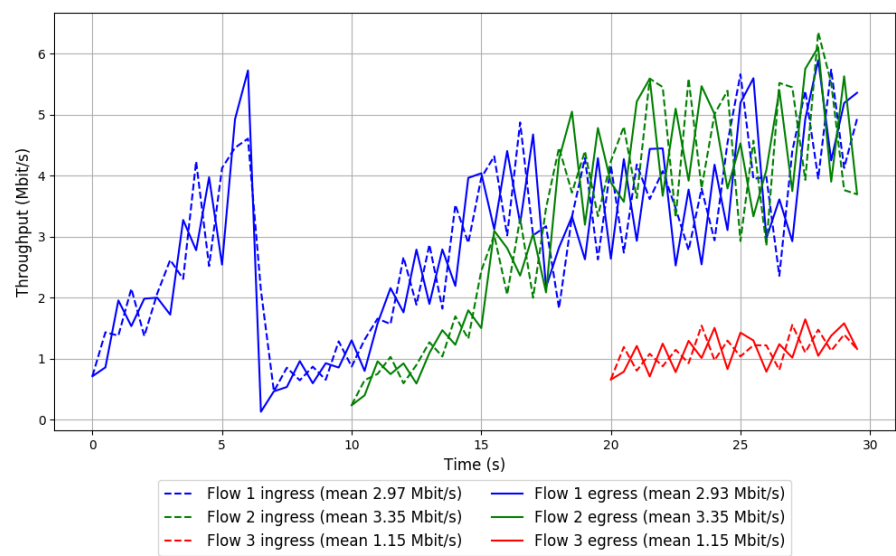
-- Flow 3:

Average throughput: 1.15 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-26 12:55:15

End at: 2018-01-26 12:55:45

Below is generated by plot.py at 2018-01-26 15:35:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.83 Mbit/s

95th percentile per-packet one-way delay: 87.972 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.71 Mbit/s

95th percentile per-packet one-way delay: 87.980 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.39 Mbit/s

95th percentile per-packet one-way delay: 88.006 ms

Loss rate: 0.00%

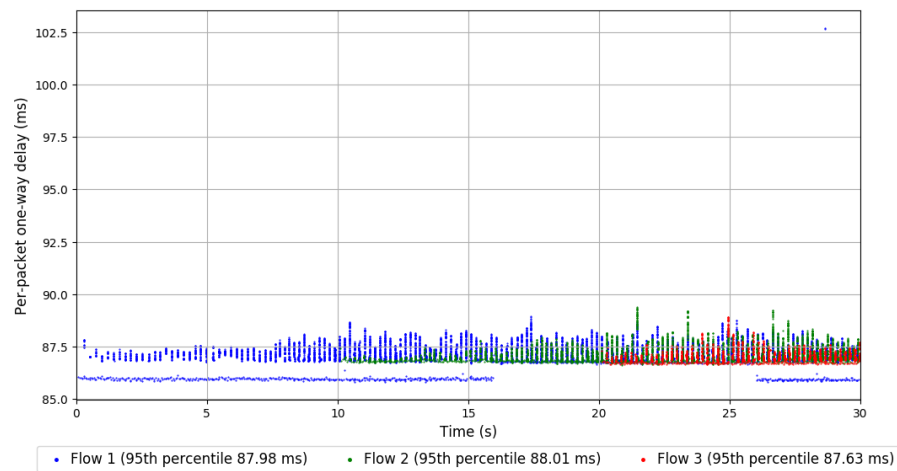
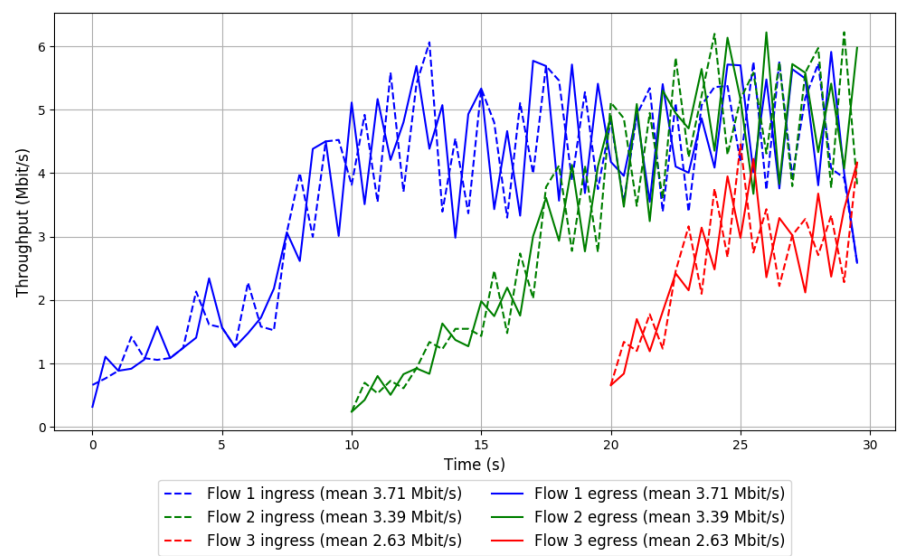
-- Flow 3:

Average throughput: 2.63 Mbit/s

95th percentile per-packet one-way delay: 87.629 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-26 13:10:08

End at: 2018-01-26 13:10:38

Below is generated by plot.py at 2018-01-26 15:35:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.56 Mbit/s

95th percentile per-packet one-way delay: 89.299 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 1.12 Mbit/s

95th percentile per-packet one-way delay: 113.866 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 3.98 Mbit/s

95th percentile per-packet one-way delay: 88.042 ms

Loss rate: 0.03%

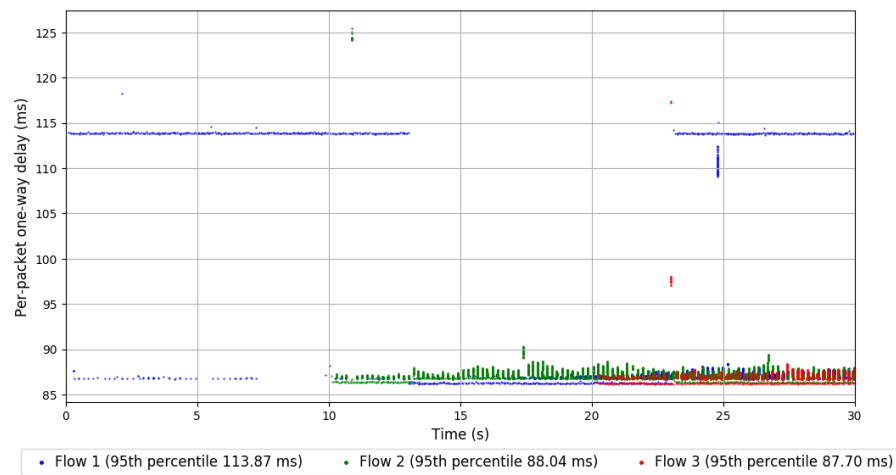
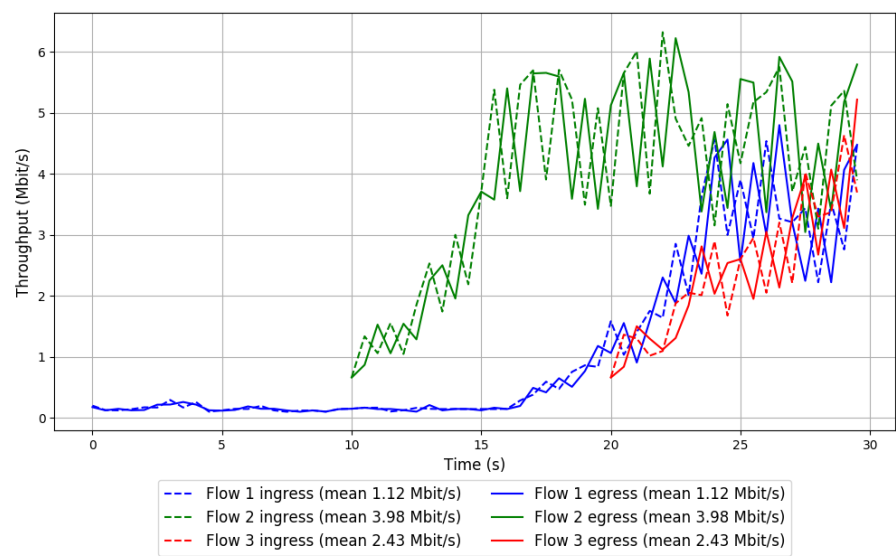
-- Flow 3:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 87.702 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-26 13:24:49

End at: 2018-01-26 13:25:19

Below is generated by plot.py at 2018-01-26 15:35:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.31 Mbit/s

95th percentile per-packet one-way delay: 88.240 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 3.73 Mbit/s

95th percentile per-packet one-way delay: 88.048 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 2.63 Mbit/s

95th percentile per-packet one-way delay: 113.808 ms

Loss rate: 0.00%

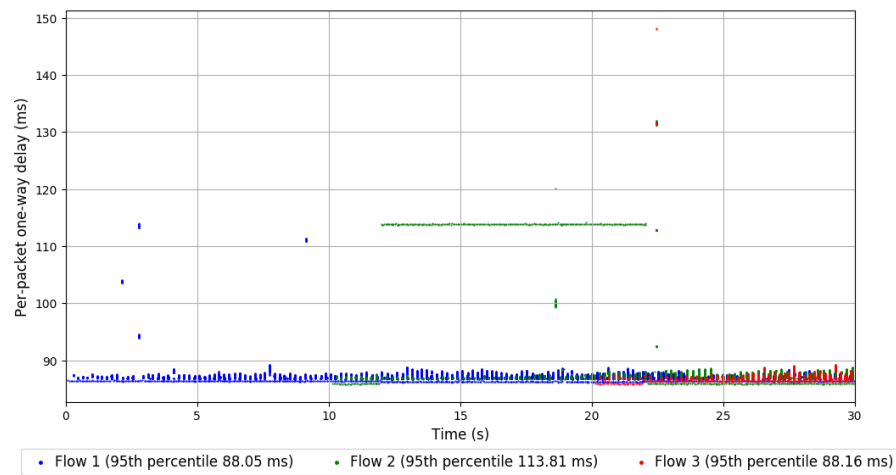
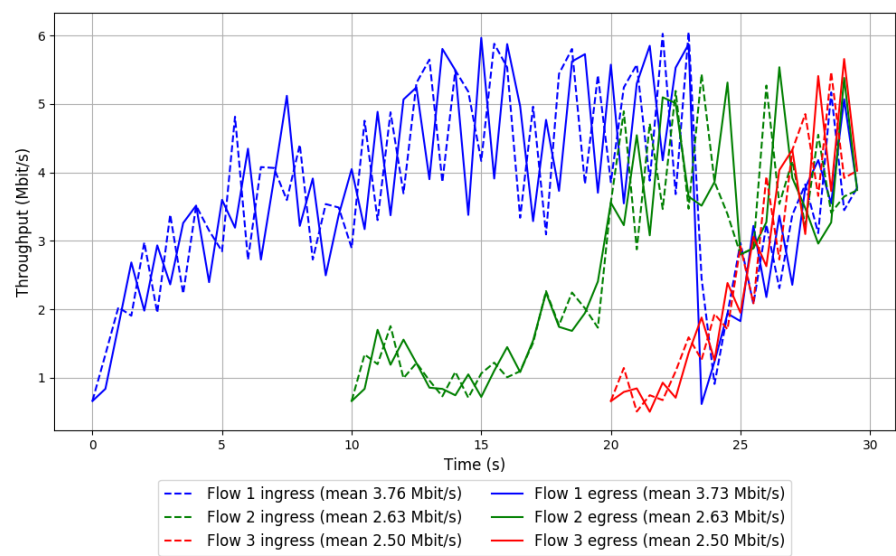
-- Flow 3:

Average throughput: 2.50 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-26 13:39:37

End at: 2018-01-26 13:40:07

Below is generated by plot.py at 2018-01-26 15:35:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.40 Mbit/s

95th percentile per-packet one-way delay: 113.799 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 113.883 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.49 Mbit/s

95th percentile per-packet one-way delay: 88.080 ms

Loss rate: 0.00%

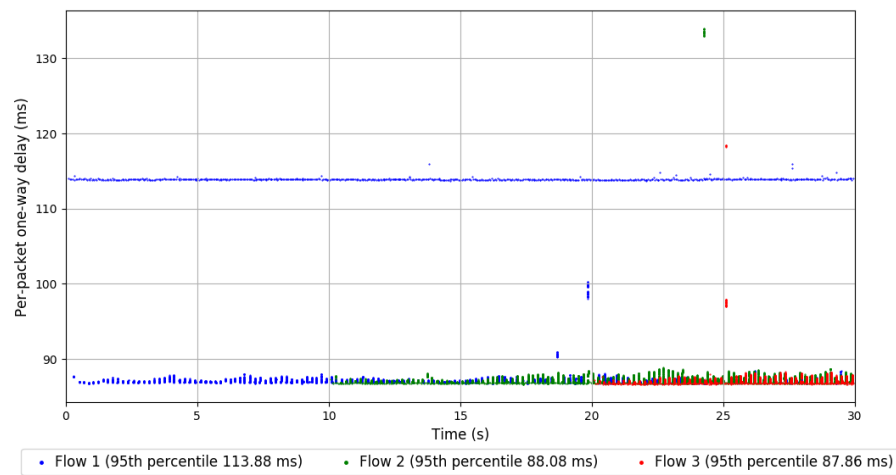
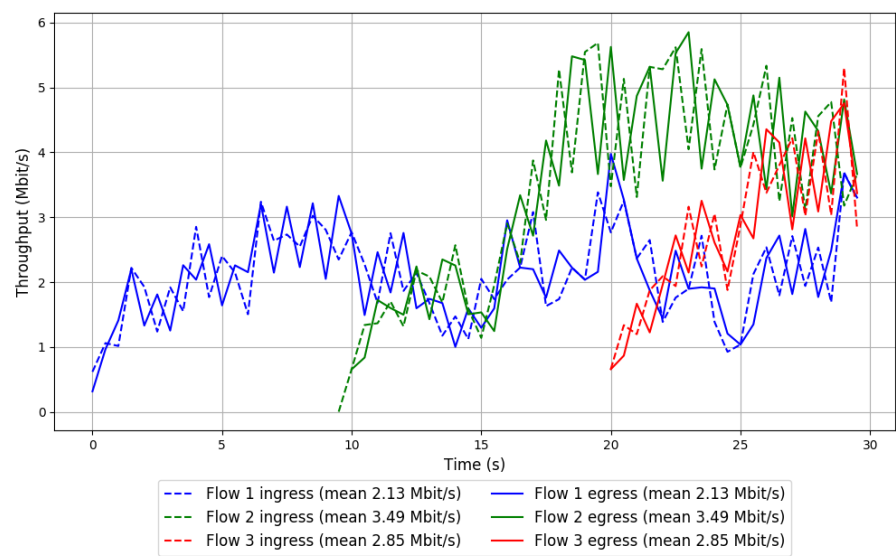
-- Flow 3:

Average throughput: 2.85 Mbit/s

95th percentile per-packet one-way delay: 87.865 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-26 13:54:38

End at: 2018-01-26 13:55:08

Below is generated by plot.py at 2018-01-26 15:35:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.10 Mbit/s

95th percentile per-packet one-way delay: 88.324 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 101.548 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.44 Mbit/s

95th percentile per-packet one-way delay: 87.922 ms

Loss rate: 1.50%

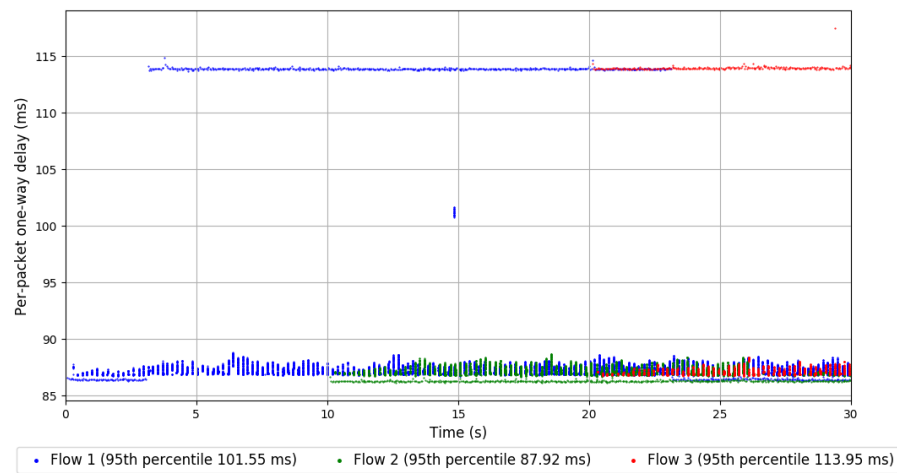
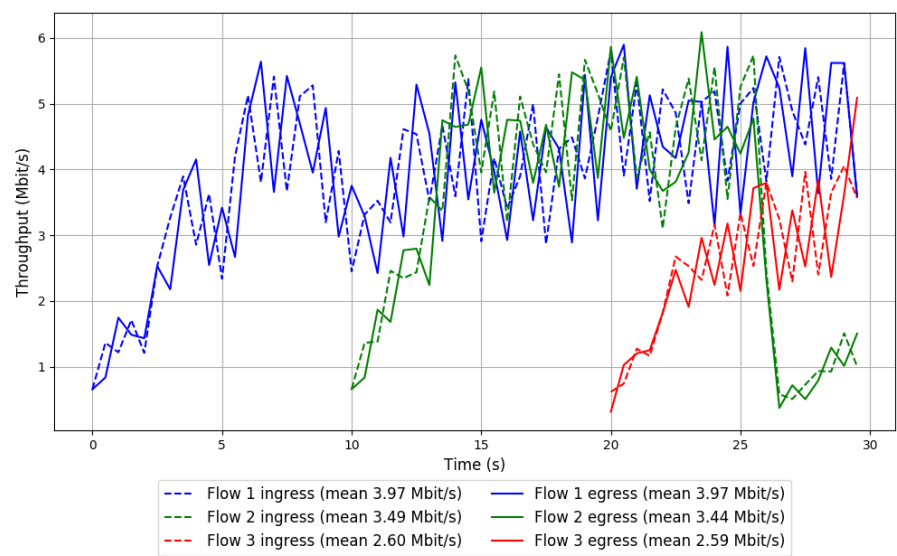
-- Flow 3:

Average throughput: 2.59 Mbit/s

95th percentile per-packet one-way delay: 113.948 ms

Loss rate: 0.37%

Run 10: Report of Sprout — Data Link

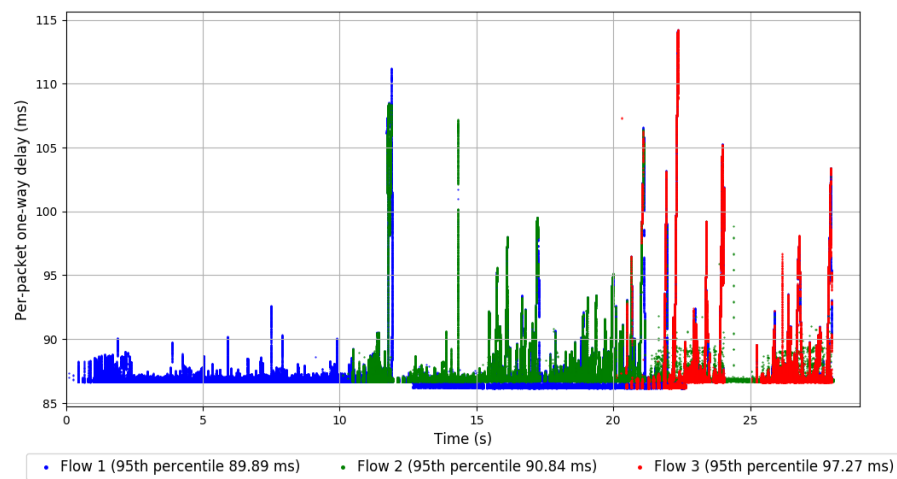
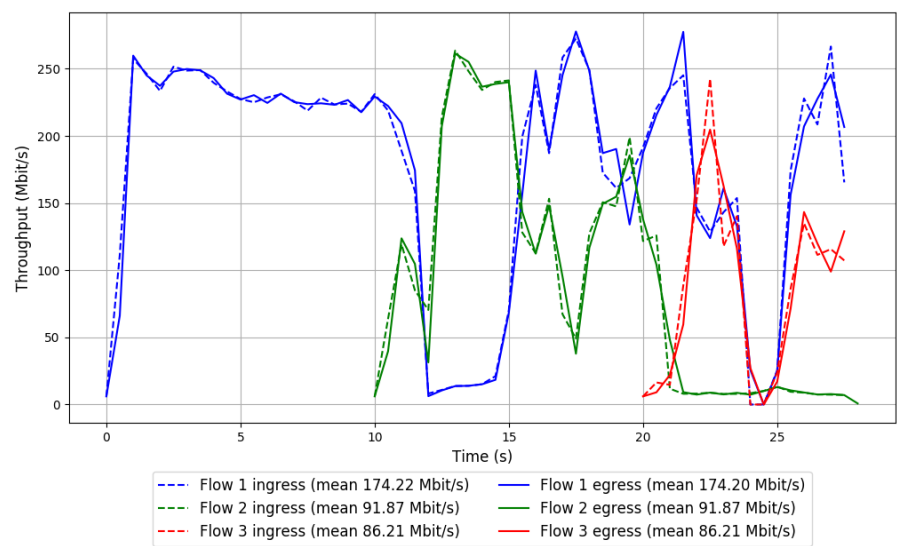


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-26 11:47:56
End at: 2018-01-26 11:48:26

# Below is generated by plot.py at 2018-01-26 15:38:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 257.03 Mbit/s
95th percentile per-packet one-way delay: 90.818 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 174.20 Mbit/s
95th percentile per-packet one-way delay: 89.886 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 91.87 Mbit/s
95th percentile per-packet one-way delay: 90.839 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 86.21 Mbit/s
95th percentile per-packet one-way delay: 97.272 ms
Loss rate: 0.00%
```


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

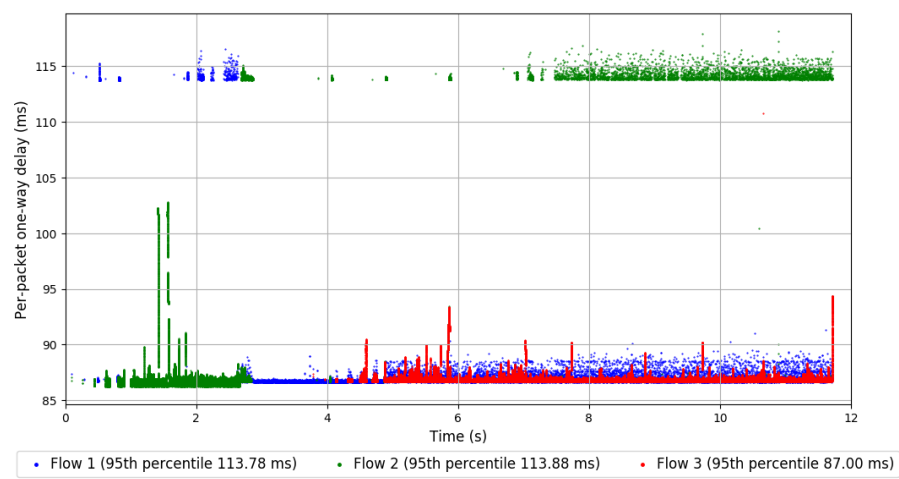
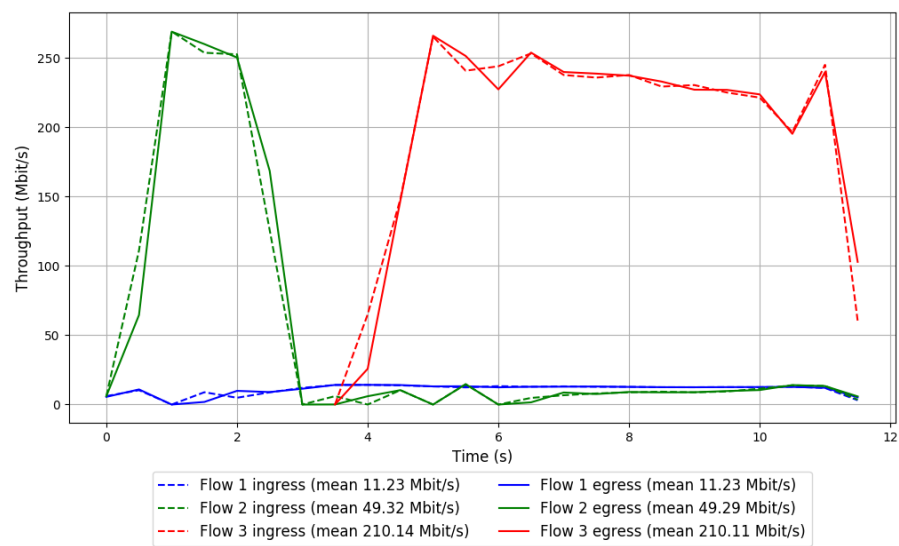


Run 2: Statistics of TaoVA-100x

Start at: 2018-01-26 12:02:50

End at: 2018-01-26 12:03:20

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-01-26 12:17:30

End at: 2018-01-26 12:18:00

Below is generated by plot.py at 2018-01-26 15:38:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 172.68 Mbit/s

95th percentile per-packet one-way delay: 92.333 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 10.33 Mbit/s

95th percentile per-packet one-way delay: 114.543 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 168.42 Mbit/s

95th percentile per-packet one-way delay: 88.180 ms

Loss rate: 0.00%

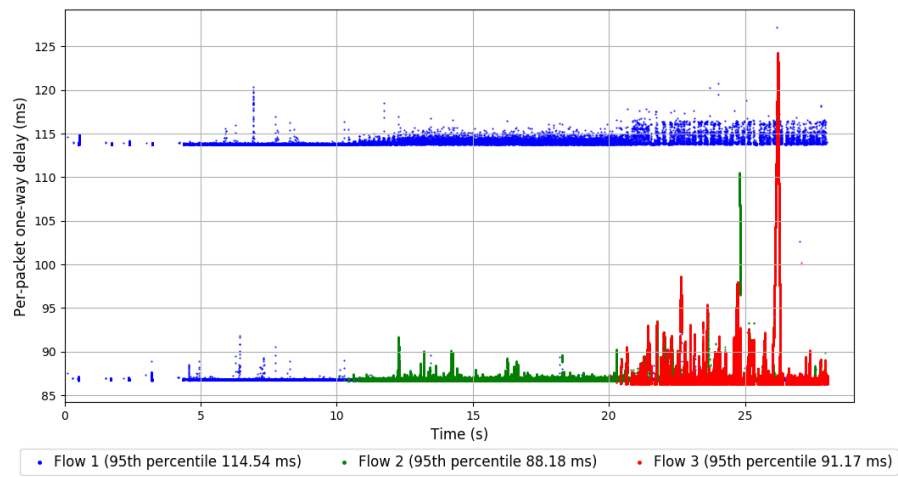
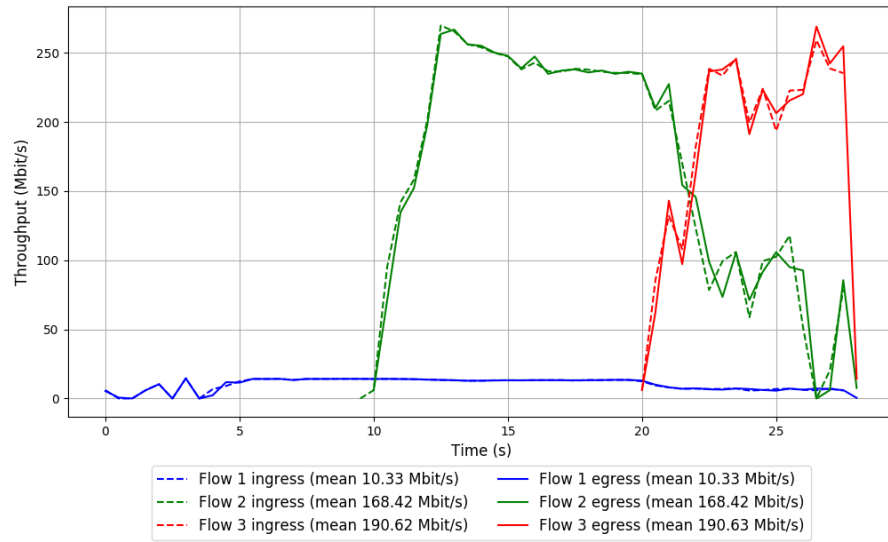
-- Flow 3:

Average throughput: 190.63 Mbit/s

95th percentile per-packet one-way delay: 91.167 ms

Loss rate: 0.00%

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

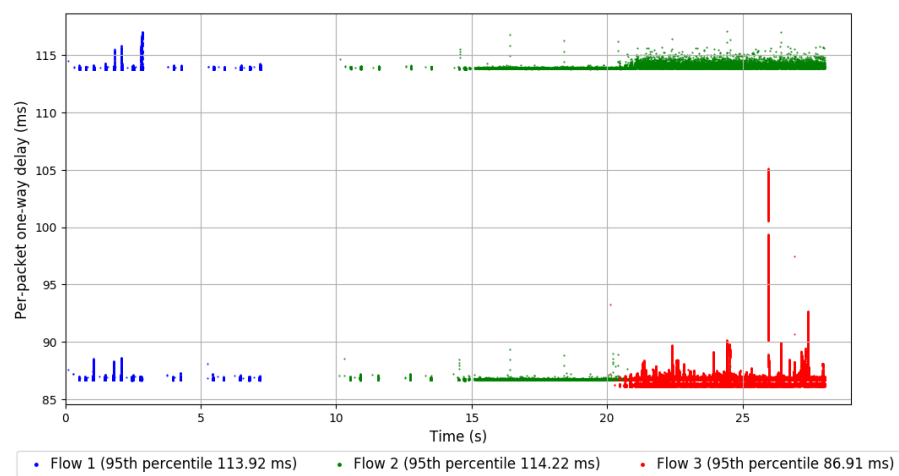
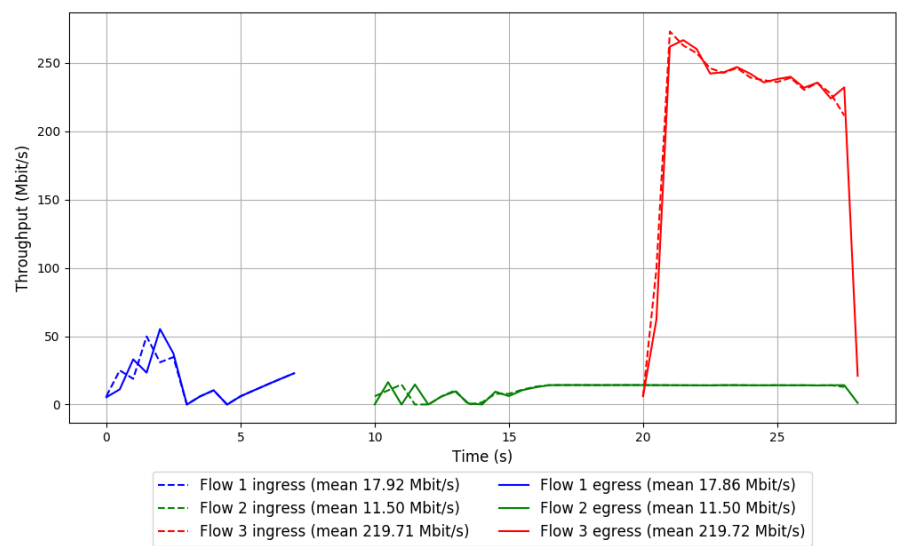


```
Run 4: Statistics of TaoVA-100x

Start at: 2018-01-26 12:32:16
End at: 2018-01-26 12:32:46

# Below is generated by plot.py at 2018-01-26 15:38:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.32 Mbit/s
95th percentile per-packet one-way delay: 113.828 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 17.86 Mbit/s
95th percentile per-packet one-way delay: 113.925 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.50 Mbit/s
95th percentile per-packet one-way delay: 114.223 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 219.72 Mbit/s
95th percentile per-packet one-way delay: 86.905 ms
Loss rate: 0.00%
```

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

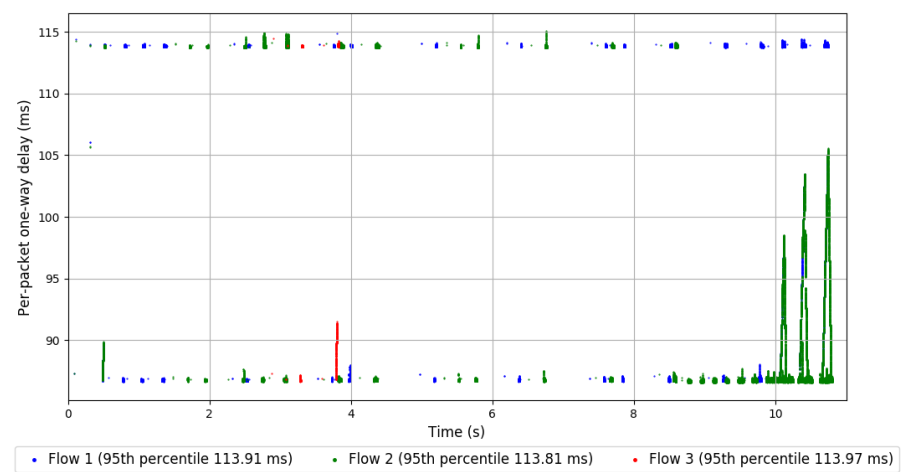
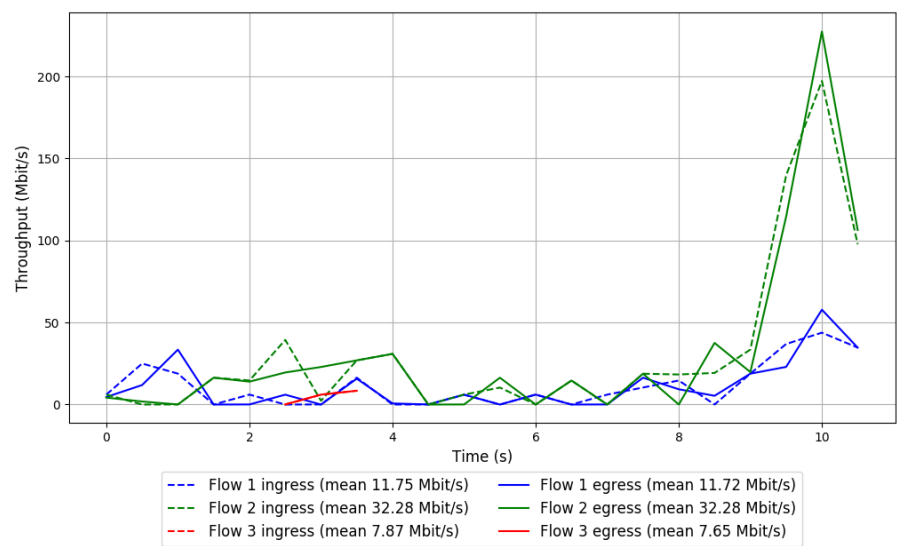


Run 5: Statistics of TaoVA-100x

Start at: 2018-01-26 12:46:53

End at: 2018-01-26 12:47:23

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-26 13:01:20

End at: 2018-01-26 13:01:50

Below is generated by plot.py at 2018-01-26 15:38:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 162.72 Mbit/s

95th percentile per-packet one-way delay: 92.445 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 10.38 Mbit/s

95th percentile per-packet one-way delay: 114.908 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 172.82 Mbit/s

95th percentile per-packet one-way delay: 88.223 ms

Loss rate: 0.01%

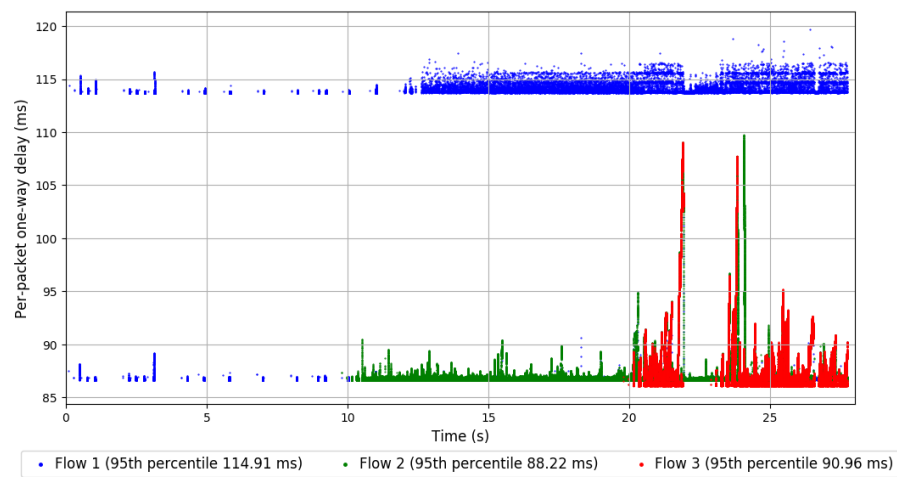
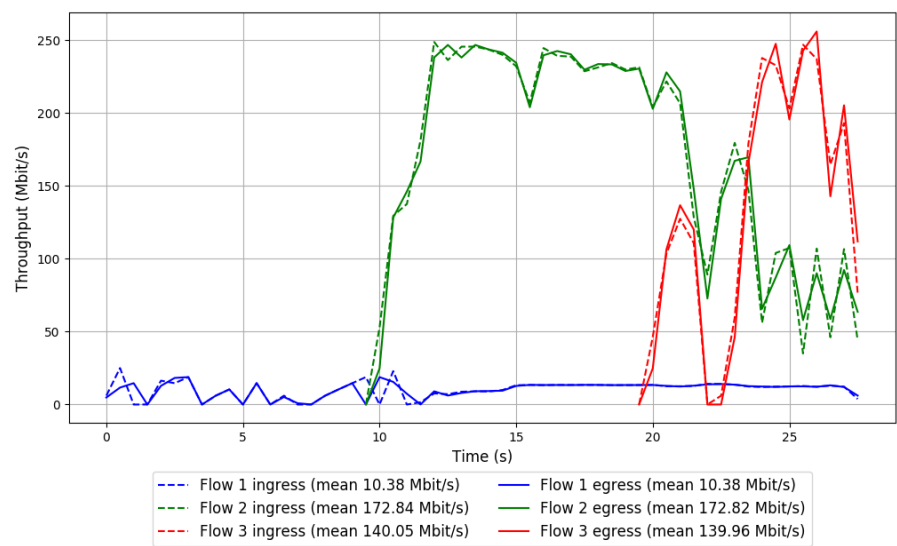
-- Flow 3:

Average throughput: 139.96 Mbit/s

95th percentile per-packet one-way delay: 90.958 ms

Loss rate: 0.06%

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

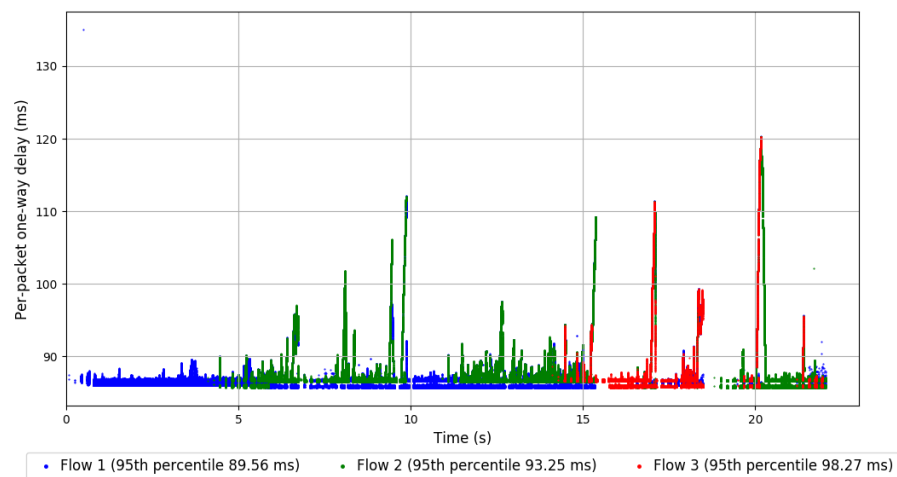
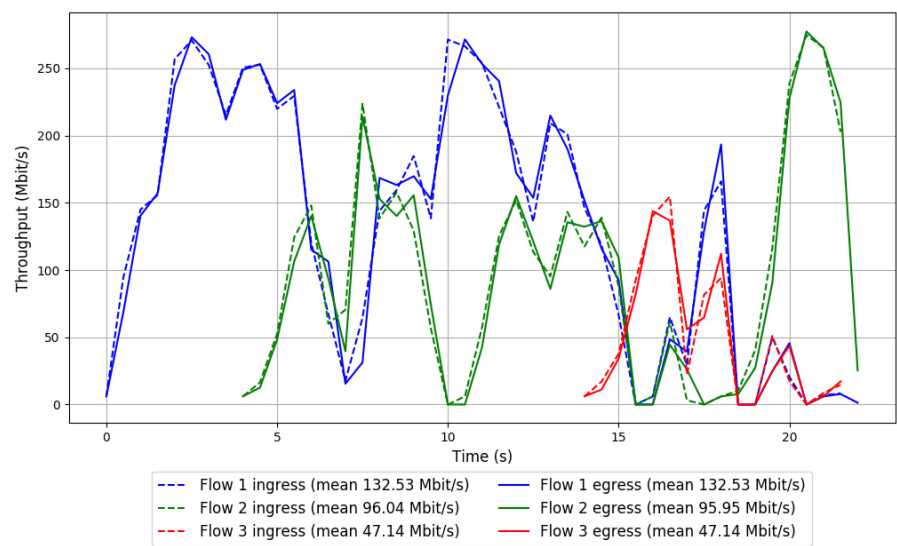


Run 7: Statistics of TaoVA-100x

Start at: 2018-01-26 13:16:07

End at: 2018-01-26 13:16:37

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-26 13:30:53

End at: 2018-01-26 13:31:23

Below is generated by plot.py at 2018-01-26 15:39:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 212.71 Mbit/s

95th percentile per-packet one-way delay: 91.587 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 127.85 Mbit/s

95th percentile per-packet one-way delay: 88.751 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 96.68 Mbit/s

95th percentile per-packet one-way delay: 95.062 ms

Loss rate: 0.00%

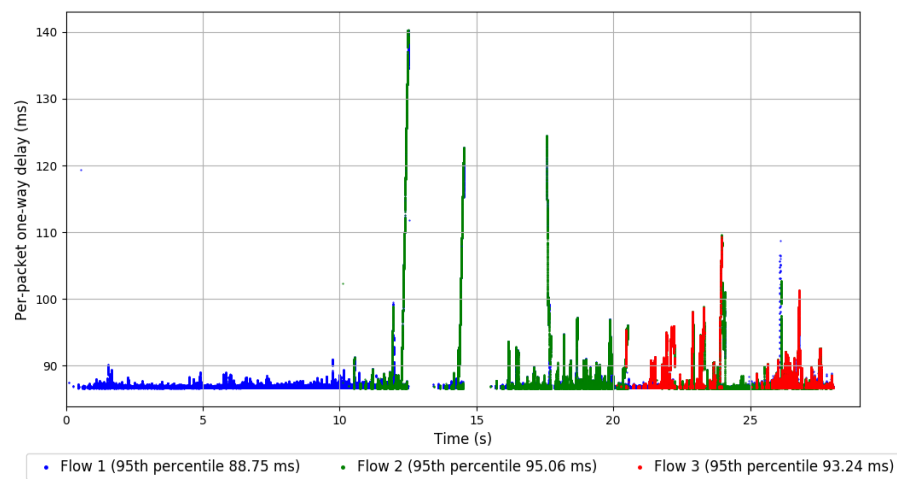
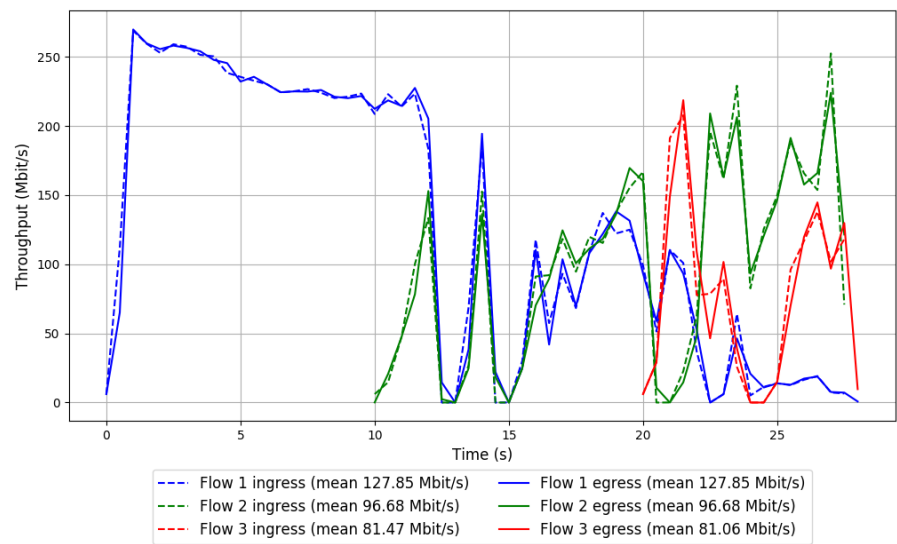
-- Flow 3:

Average throughput: 81.06 Mbit/s

95th percentile per-packet one-way delay: 93.240 ms

Loss rate: 0.52%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-26 13:45:39

End at: 2018-01-26 13:46:09

Below is generated by plot.py at 2018-01-26 15:40:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.54 Mbit/s

95th percentile per-packet one-way delay: 88.586 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 201.98 Mbit/s

95th percentile per-packet one-way delay: 87.325 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 9.94 Mbit/s

95th percentile per-packet one-way delay: 114.827 ms

Loss rate: 0.02%

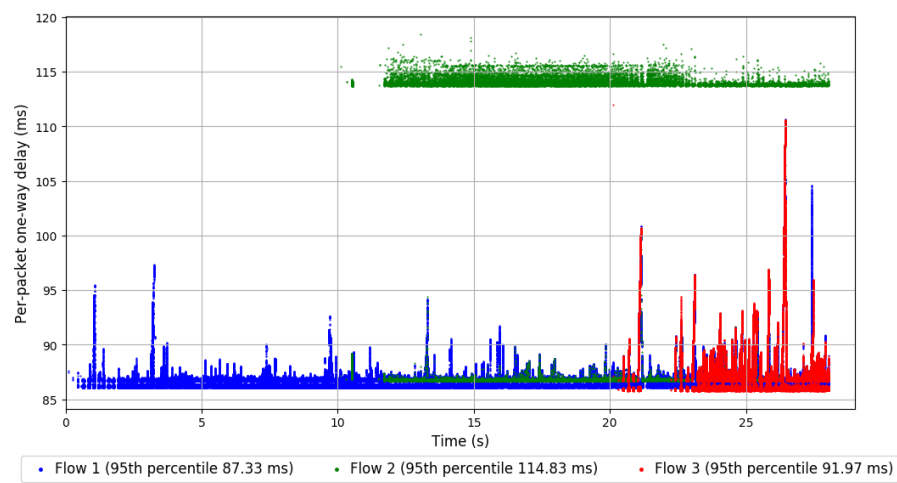
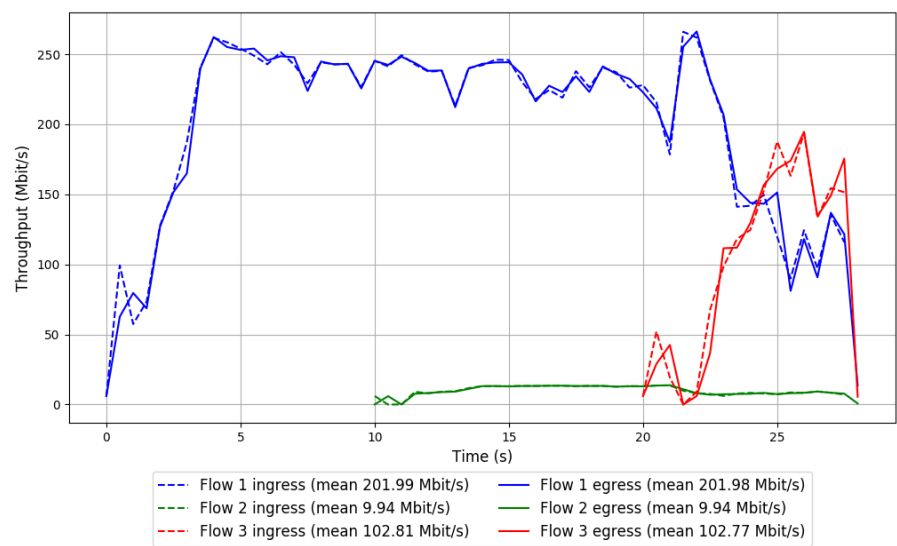
-- Flow 3:

Average throughput: 102.77 Mbit/s

95th percentile per-packet one-way delay: 91.965 ms

Loss rate: 0.05%

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

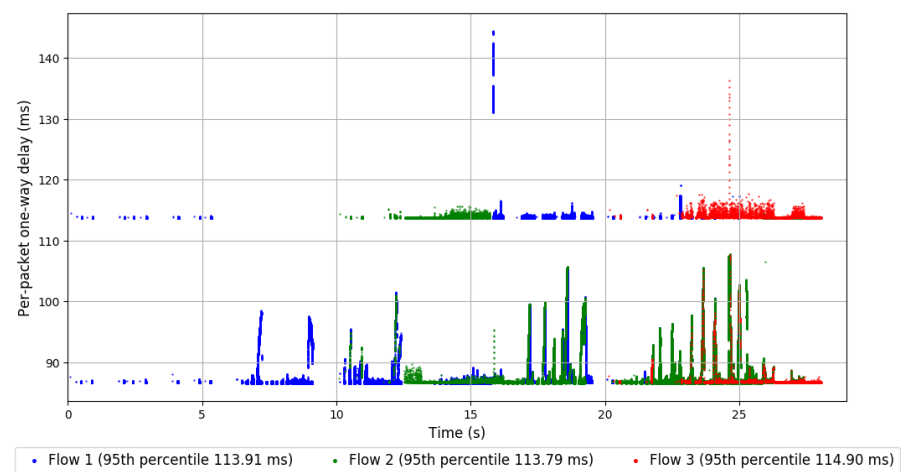
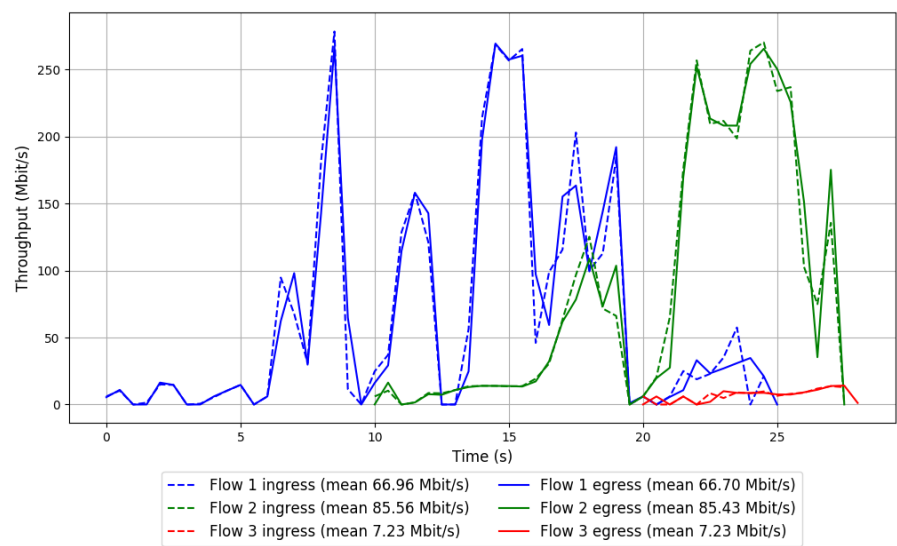


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-26 14:00:43
End at: 2018-01-26 14:01:13

# Below is generated by plot.py at 2018-01-26 15:40:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 116.03 Mbit/s
95th percentile per-packet one-way delay: 113.885 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 66.70 Mbit/s
95th percentile per-packet one-way delay: 113.913 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 85.43 Mbit/s
95th percentile per-packet one-way delay: 113.794 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.23 Mbit/s
95th percentile per-packet one-way delay: 114.897 ms
Loss rate: 0.05%
```

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



Run 1: Statistics of TCP Vegas

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

End at: 2018-01-26 11:41:31

Below is generated by plot.py at 2018-01-26 15:40:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.19 Mbit/s

95th percentile per-packet one-way delay: 91.034 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 35.84 Mbit/s

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

Loss rate: 0.36%

-- Flow 2:

Average throughput: 70.16 Mbit/s

95th percentile per-packet one-way delay: 88.286 ms

Loss rate: 0.22%

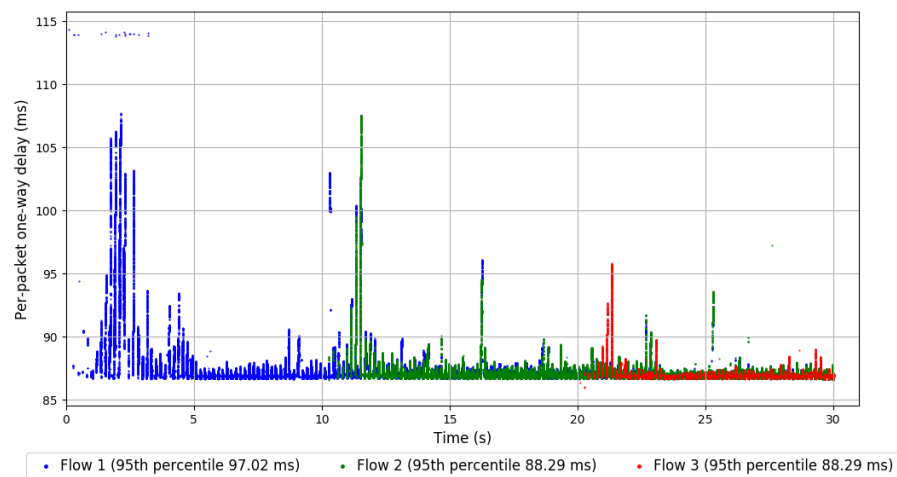
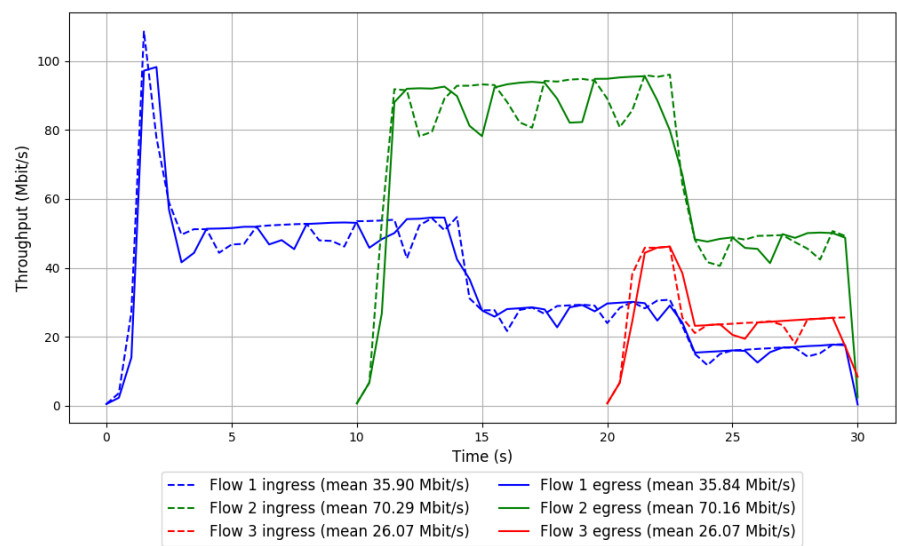
-- Flow 3:

Average throughput: 26.07 Mbit/s

95th percentile per-packet one-way delay: 88.292 ms

Loss rate: 0.01%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-26 11:55:58

End at: 2018-01-26 11:56:28

Below is generated by plot.py at 2018-01-26 15:40:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.62 Mbit/s

95th percentile per-packet one-way delay: 96.003 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 13.84 Mbit/s

95th percentile per-packet one-way delay: 1579.234 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 75.22 Mbit/s

95th percentile per-packet one-way delay: 96.234 ms

Loss rate: 0.24%

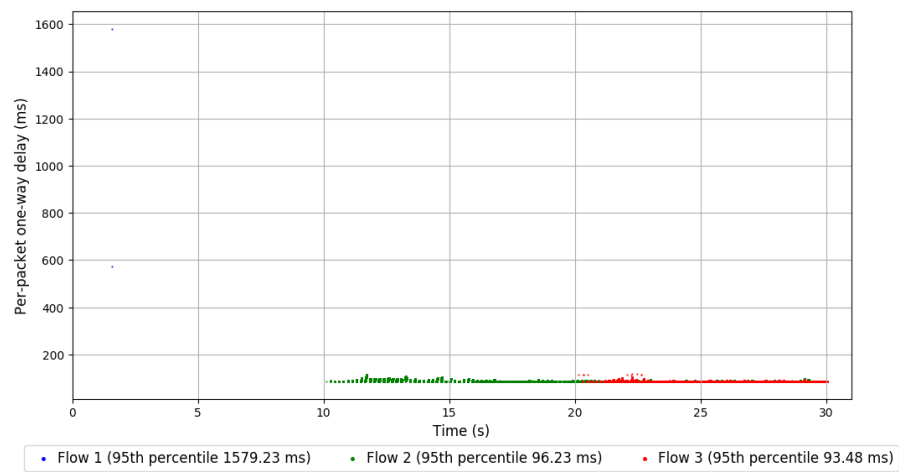
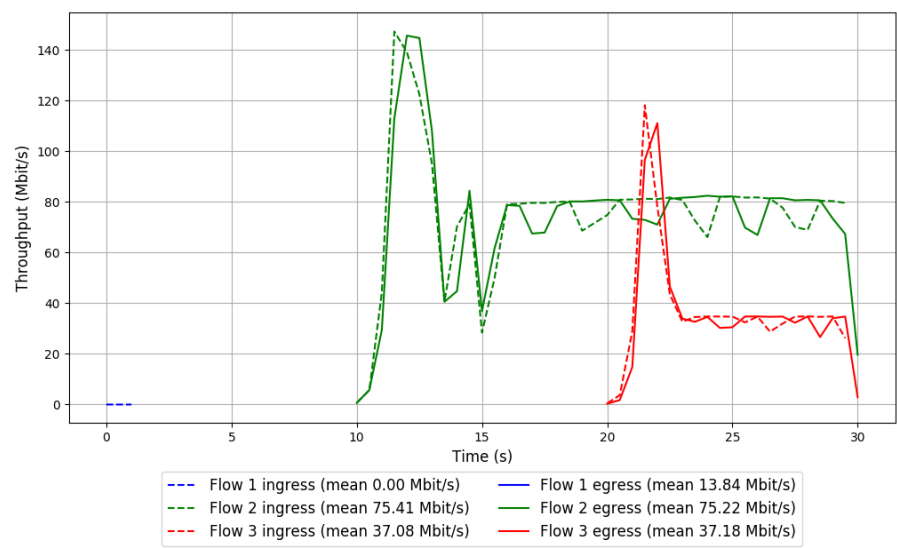
-- Flow 3:

Average throughput: 37.18 Mbit/s

95th percentile per-packet one-way delay: 93.479 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

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

End at: 2018-01-26 12:11:07

Below is generated by plot.py at 2018-01-26 15:40:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.34 Mbit/s

95th percentile per-packet one-way delay: 95.803 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 55.71 Mbit/s

95th percentile per-packet one-way delay: 90.532 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 78.48 Mbit/s

95th percentile per-packet one-way delay: 96.962 ms

Loss rate: 0.85%

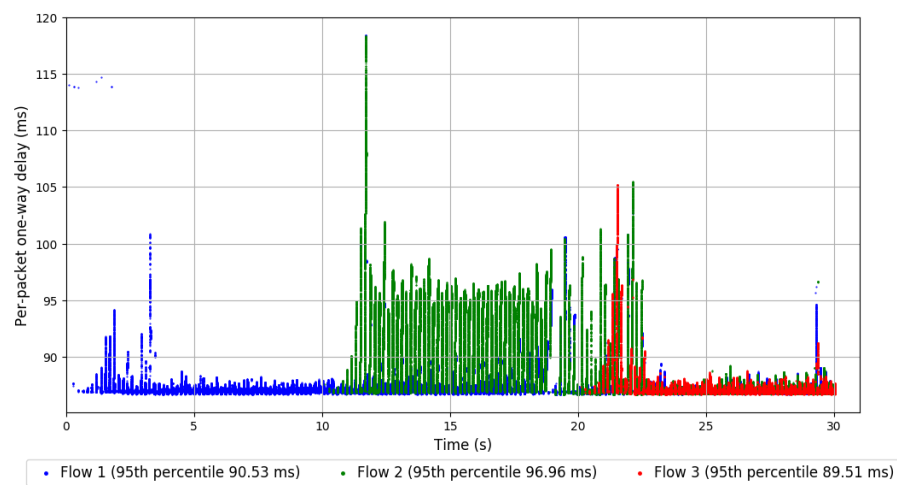
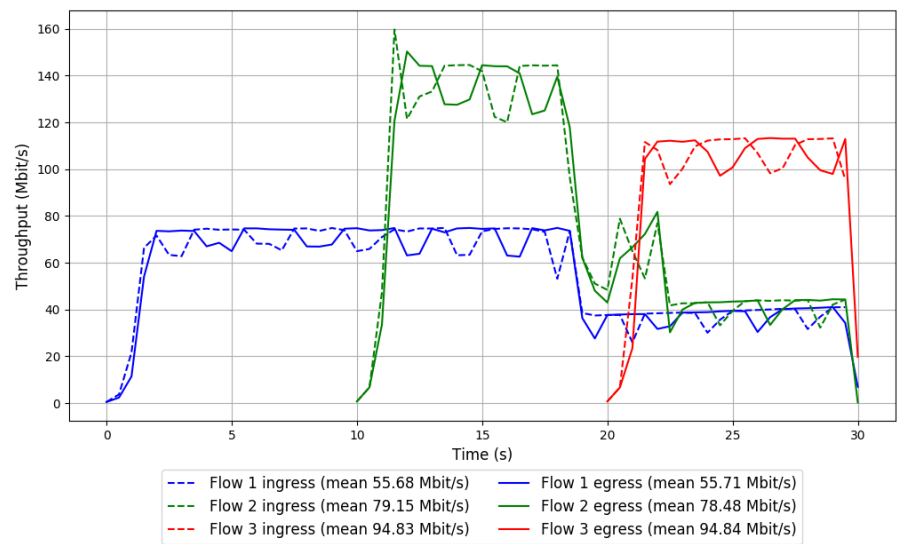
-- Flow 3:

Average throughput: 94.84 Mbit/s

95th percentile per-packet one-way delay: 89.506 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-26 12:25:24

End at: 2018-01-26 12:25:54

Below is generated by plot.py at 2018-01-26 15:40:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.81 Mbit/s

95th percentile per-packet one-way delay: 91.253 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 43.47 Mbit/s

95th percentile per-packet one-way delay: 88.977 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 31.74 Mbit/s

95th percentile per-packet one-way delay: 90.769 ms

Loss rate: 0.01%

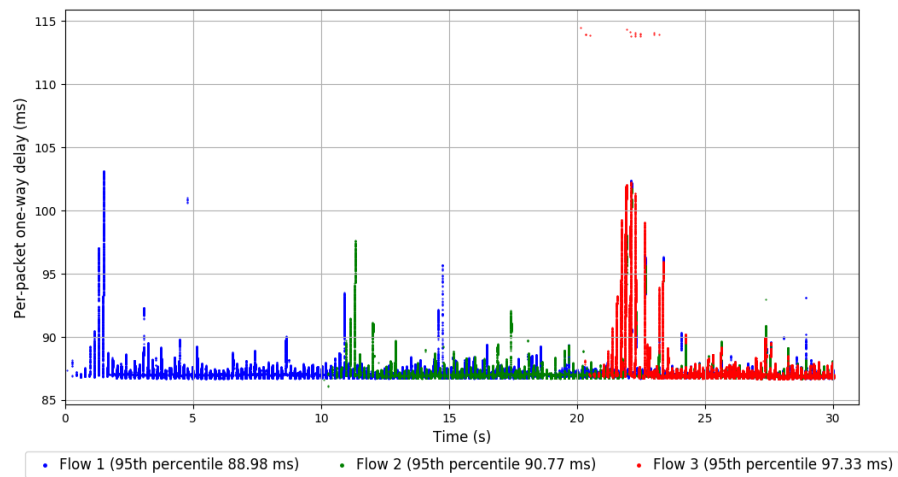
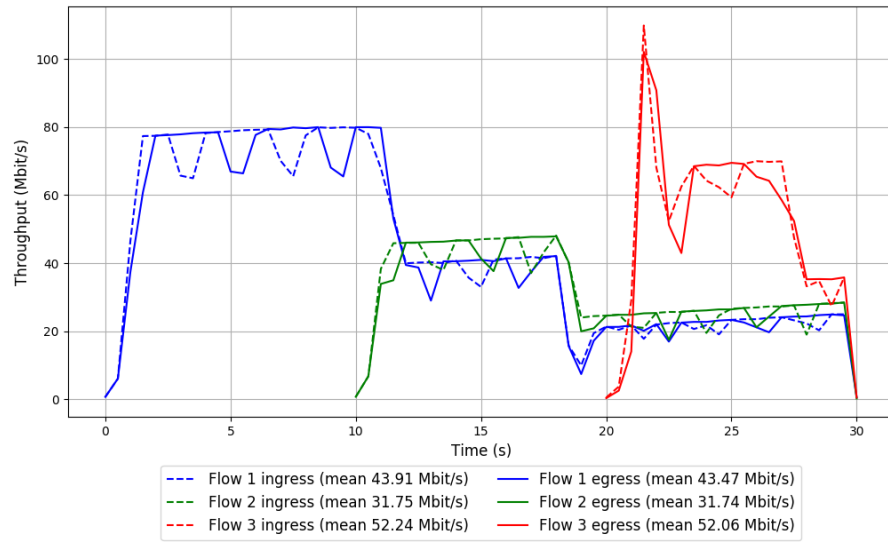
-- Flow 3:

Average throughput: 52.06 Mbit/s

95th percentile per-packet one-way delay: 97.329 ms

Loss rate: 0.63%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-26 12:40:01

End at: 2018-01-26 12:40:31

Below is generated by plot.py at 2018-01-26 15:40:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 166.66 Mbit/s

95th percentile per-packet one-way delay: 96.920 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.04 Mbit/s

95th percentile per-packet one-way delay: 95.103 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 127.87 Mbit/s

95th percentile per-packet one-way delay: 97.418 ms

Loss rate: 0.00%

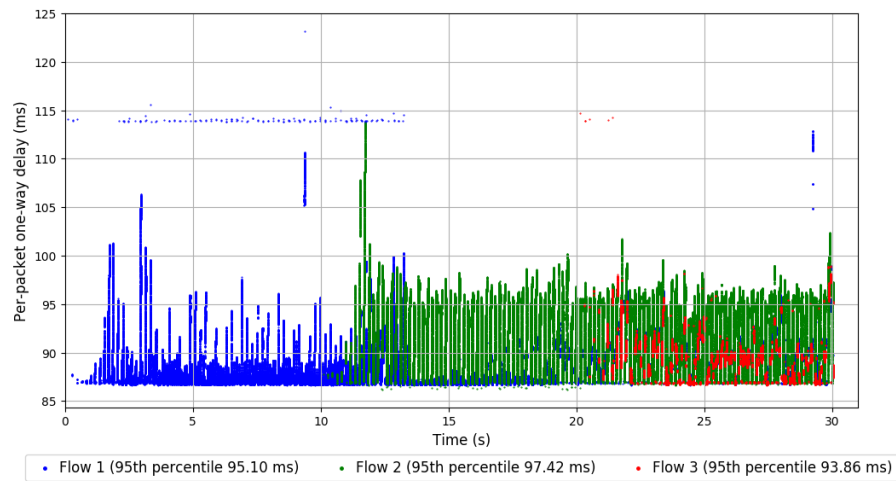
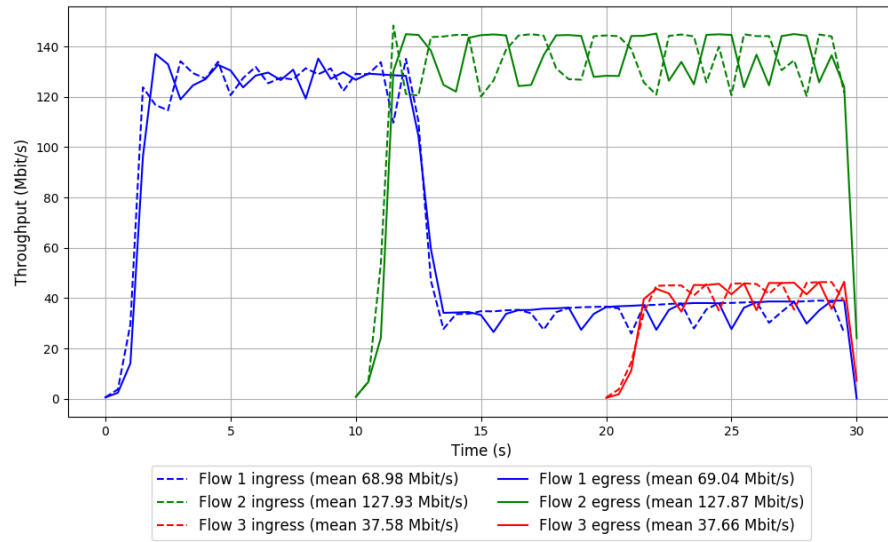
-- Flow 3:

Average throughput: 37.66 Mbit/s

95th percentile per-packet one-way delay: 93.863 ms

Loss rate: 0.05%

Run 5: Report of TCP Vegas — Data Link

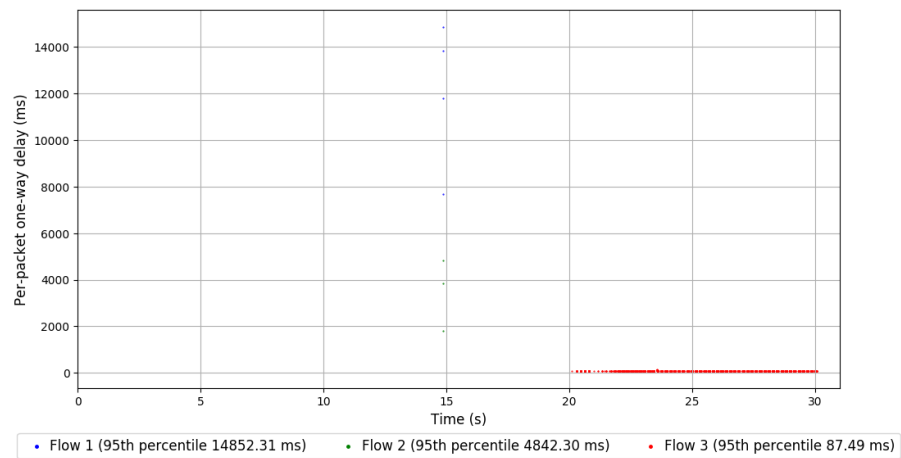
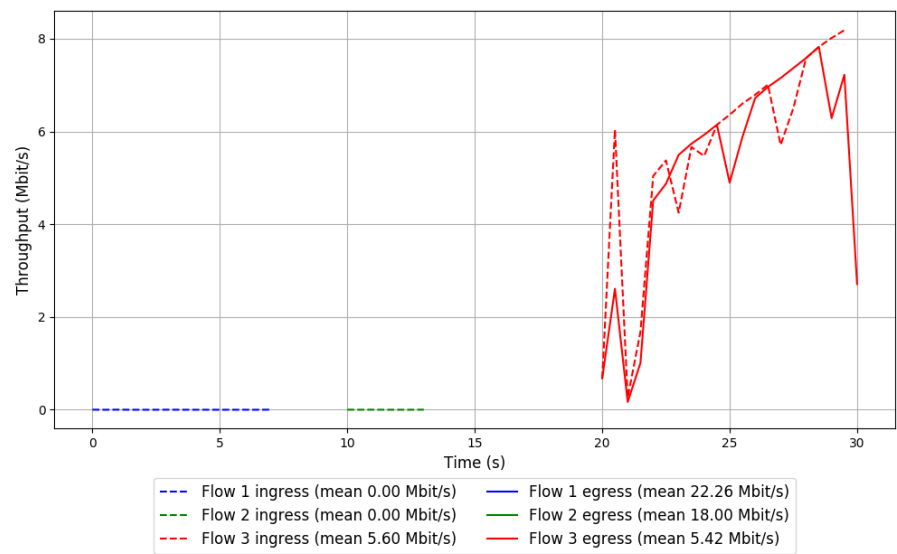


Run 6: Statistics of TCP Vegas

Start at: 2018-01-26 12:54:31

End at: 2018-01-26 12:55:01

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-26 13:09:16

End at: 2018-01-26 13:09:46

Below is generated by plot.py at 2018-01-26 15:40:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.08 Mbit/s

95th percentile per-packet one-way delay: 95.179 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 96.21 Mbit/s

95th percentile per-packet one-way delay: 95.709 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 52.55 Mbit/s

95th percentile per-packet one-way delay: 88.589 ms

Loss rate: 0.00%

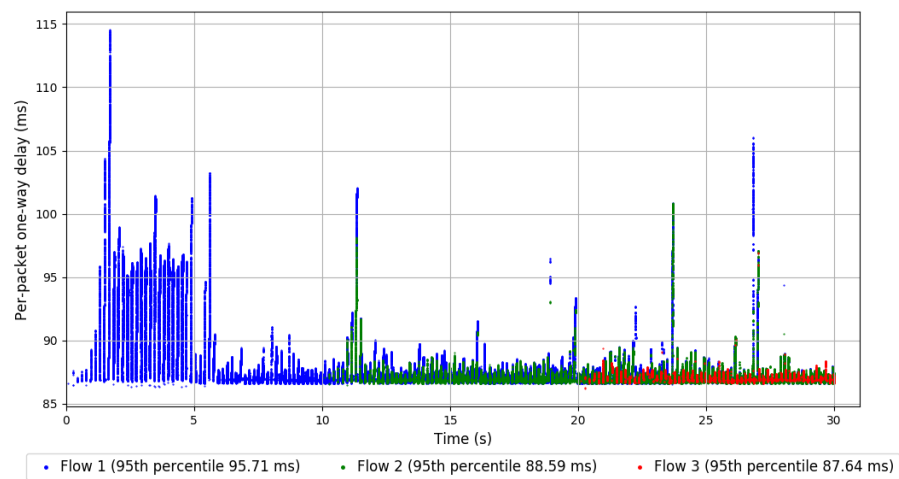
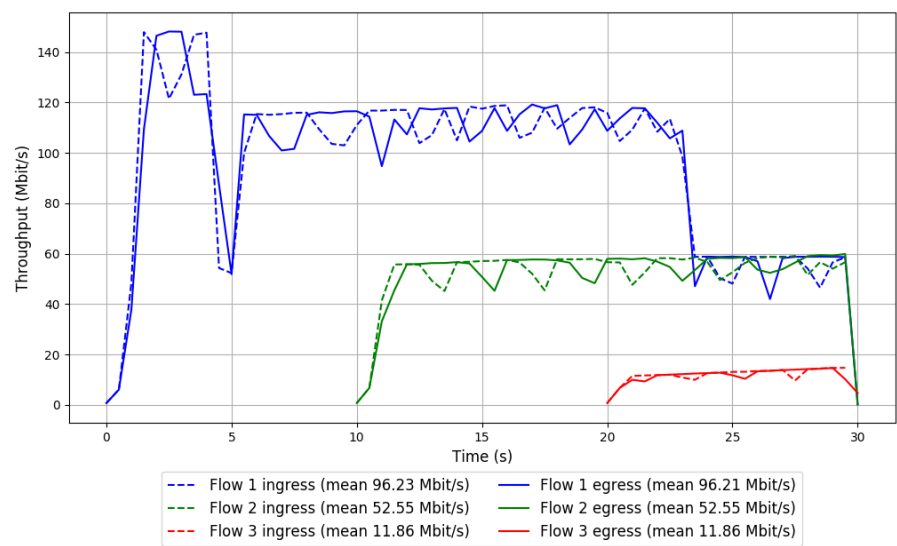
-- Flow 3:

Average throughput: 11.86 Mbit/s

95th percentile per-packet one-way delay: 87.642 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-26 13:24:01

End at: 2018-01-26 13:24:31

Below is generated by plot.py at 2018-01-26 15:40:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.09 Mbit/s

95th percentile per-packet one-way delay: 95.741 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 47.22 Mbit/s

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

Loss rate: 0.47%

-- Flow 2:

Average throughput: 18.42 Mbit/s

95th percentile per-packet one-way delay: 90.265 ms

Loss rate: 0.00%

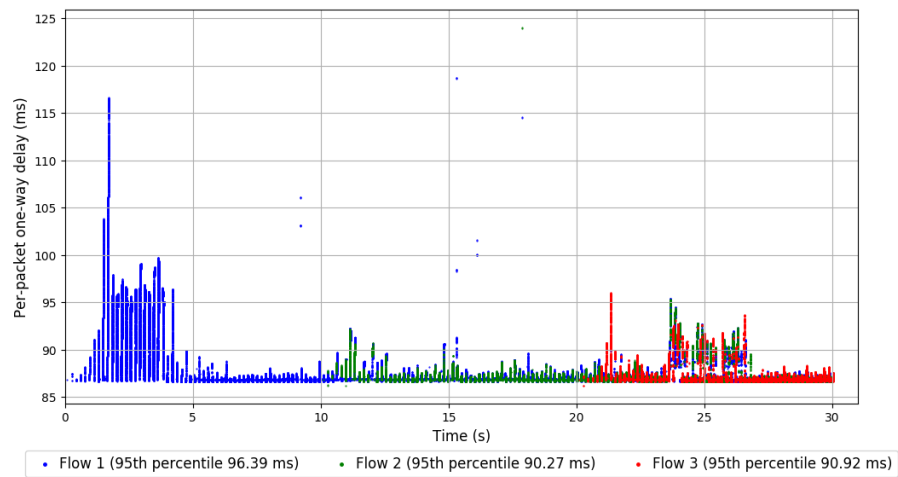
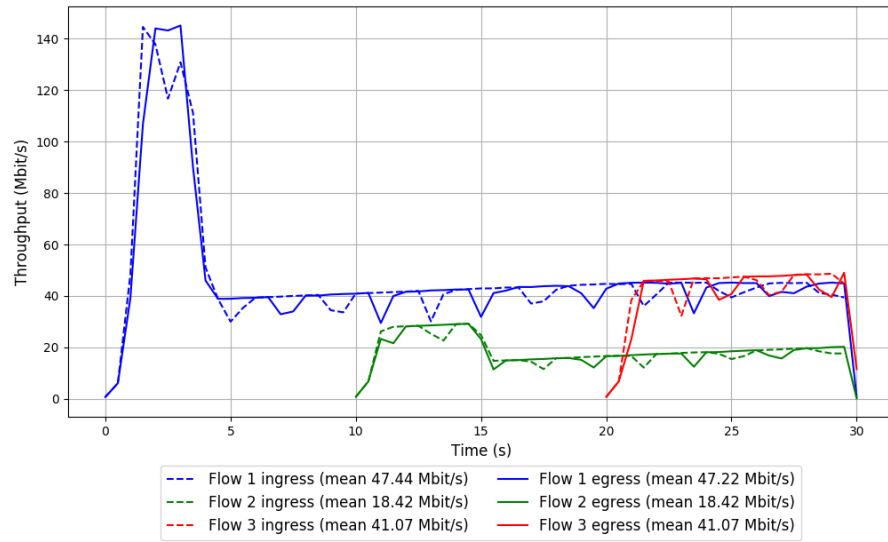
-- Flow 3:

Average throughput: 41.07 Mbit/s

95th percentile per-packet one-way delay: 90.922 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-26 13:38:51

End at: 2018-01-26 13:39:21

Below is generated by plot.py at 2018-01-26 15:40:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.47 Mbit/s

95th percentile per-packet one-way delay: 96.000 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 648.231 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 18.16 Mbit/s

95th percentile per-packet one-way delay: 98.535 ms

Loss rate: 1.41%

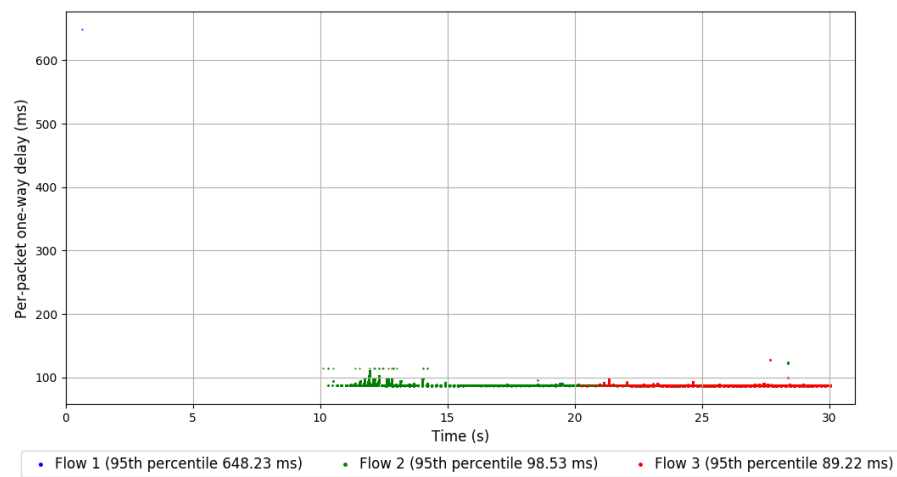
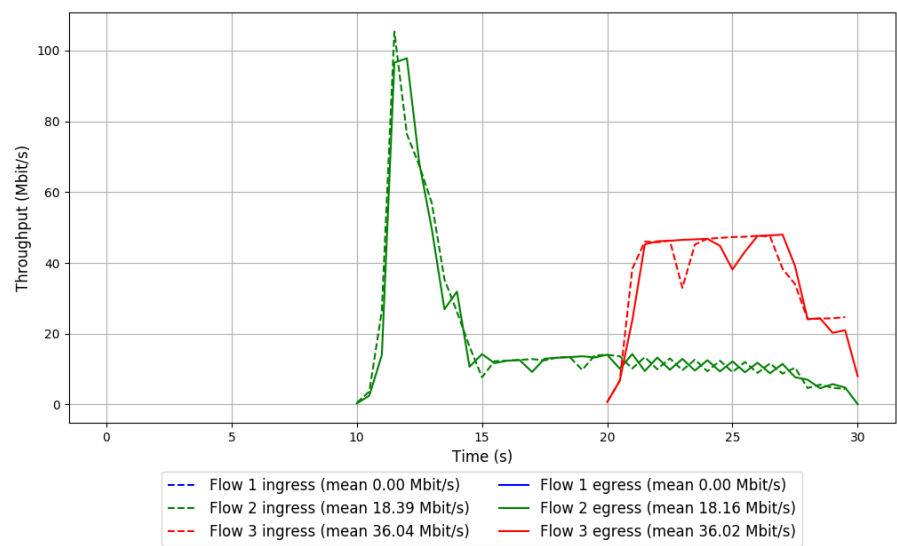
-- Flow 3:

Average throughput: 36.02 Mbit/s

95th percentile per-packet one-way delay: 89.216 ms

Loss rate: 0.06%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-26 13:53:42

End at: 2018-01-26 13:54:12

Below is generated by plot.py at 2018-01-26 15:41:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 166.08 Mbit/s

95th percentile per-packet one-way delay: 96.863 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 57.45 Mbit/s

95th percentile per-packet one-way delay: 91.953 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 128.14 Mbit/s

95th percentile per-packet one-way delay: 97.535 ms

Loss rate: 0.00%

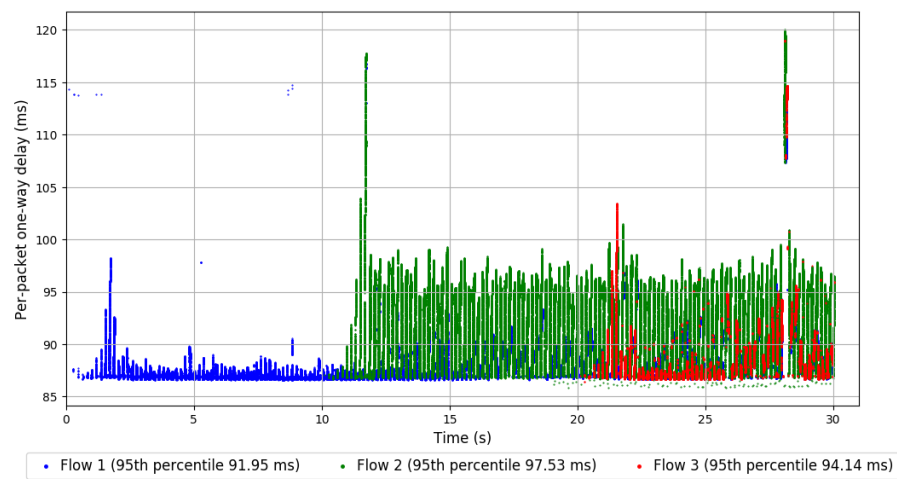
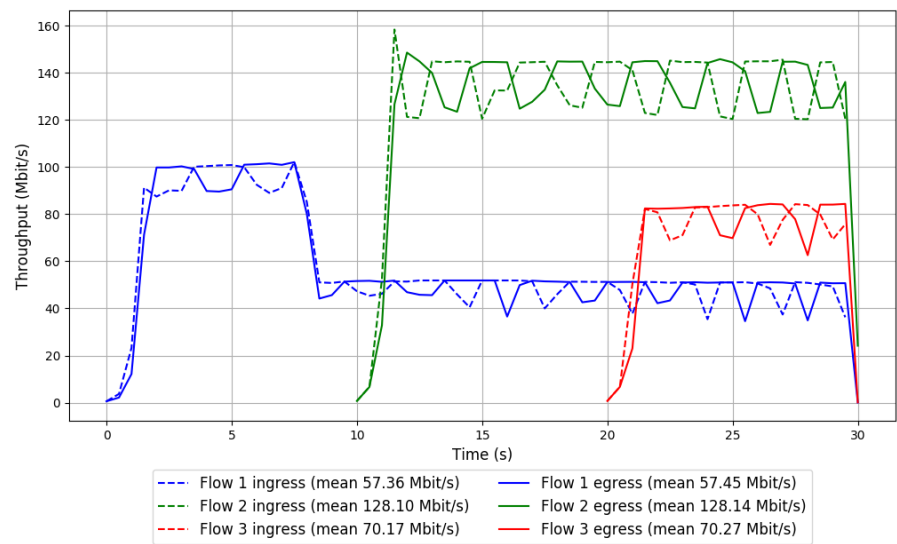
-- Flow 3:

Average throughput: 70.27 Mbit/s

95th percentile per-packet one-way delay: 94.141 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-26 11:45:44

End at: 2018-01-26 11:46:14

Below is generated by plot.py at 2018-01-26 15:43:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 260.39 Mbit/s

95th percentile per-packet one-way delay: 317.204 ms

Loss rate: 5.62%

-- Flow 1:

Average throughput: 151.88 Mbit/s

95th percentile per-packet one-way delay: 253.270 ms

Loss rate: 3.36%

-- Flow 2:

Average throughput: 152.34 Mbit/s

95th percentile per-packet one-way delay: 345.219 ms

Loss rate: 8.96%

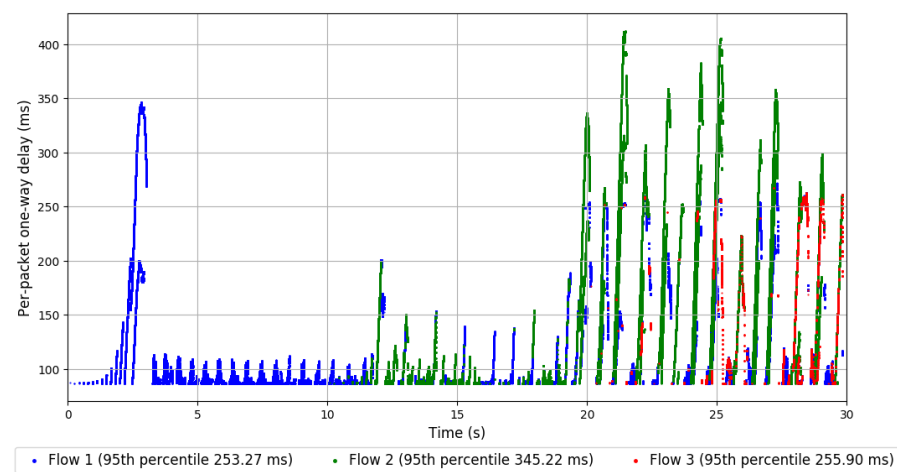
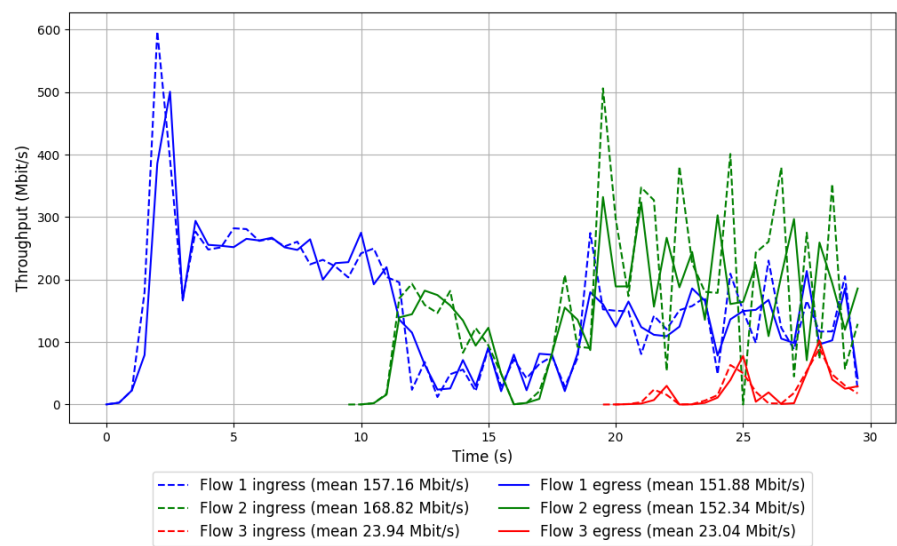
-- Flow 3:

Average throughput: 23.04 Mbit/s

95th percentile per-packet one-way delay: 255.898 ms

Loss rate: 3.66%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-26 12:00:38

End at: 2018-01-26 12:01:08

Below is generated by plot.py at 2018-01-26 15:43:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 247.15 Mbit/s

95th percentile per-packet one-way delay: 241.839 ms

Loss rate: 2.73%

-- Flow 1:

Average throughput: 141.48 Mbit/s

95th percentile per-packet one-way delay: 227.251 ms

Loss rate: 1.56%

-- Flow 2:

Average throughput: 101.82 Mbit/s

95th percentile per-packet one-way delay: 268.801 ms

Loss rate: 3.45%

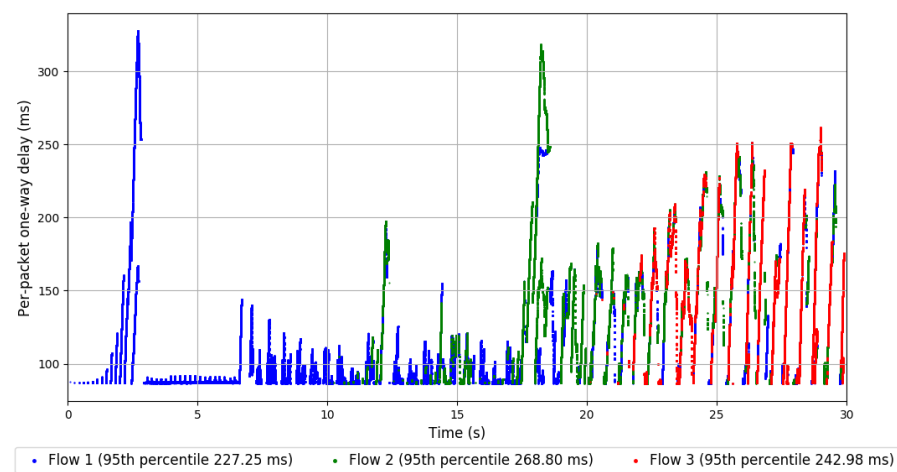
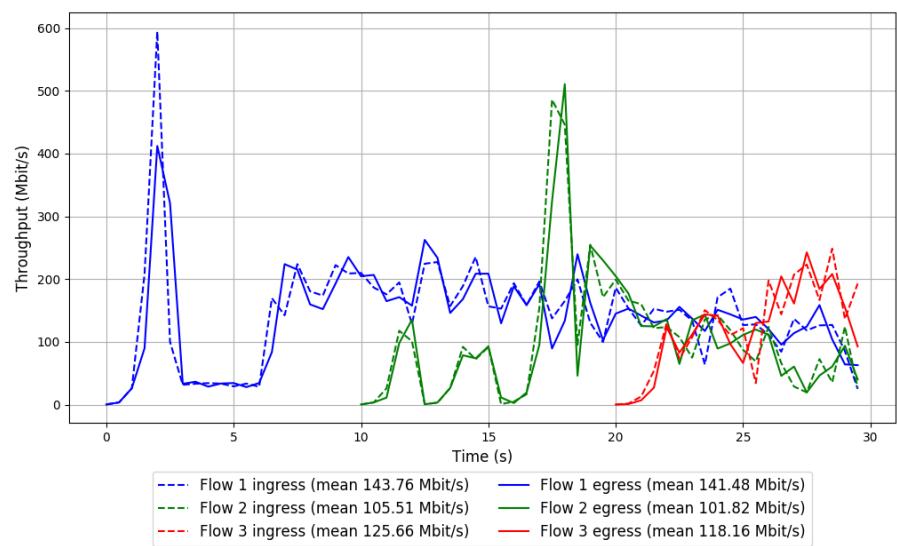
-- Flow 3:

Average throughput: 118.16 Mbit/s

95th percentile per-packet one-way delay: 242.981 ms

Loss rate: 5.57%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-26 12:15:22

End at: 2018-01-26 12:15:52

Below is generated by plot.py at 2018-01-26 15:43:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 206.78 Mbit/s

95th percentile per-packet one-way delay: 178.578 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 145.36 Mbit/s

95th percentile per-packet one-way delay: 181.668 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 69.11 Mbit/s

95th percentile per-packet one-way delay: 177.966 ms

Loss rate: 0.01%

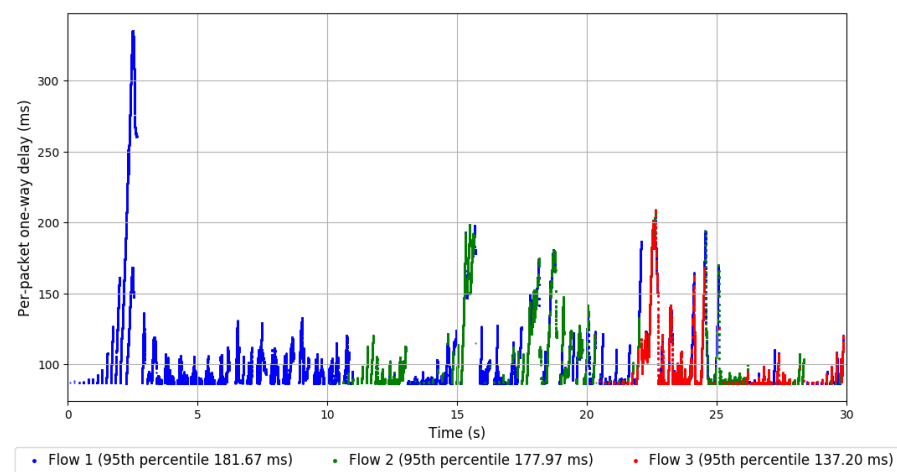
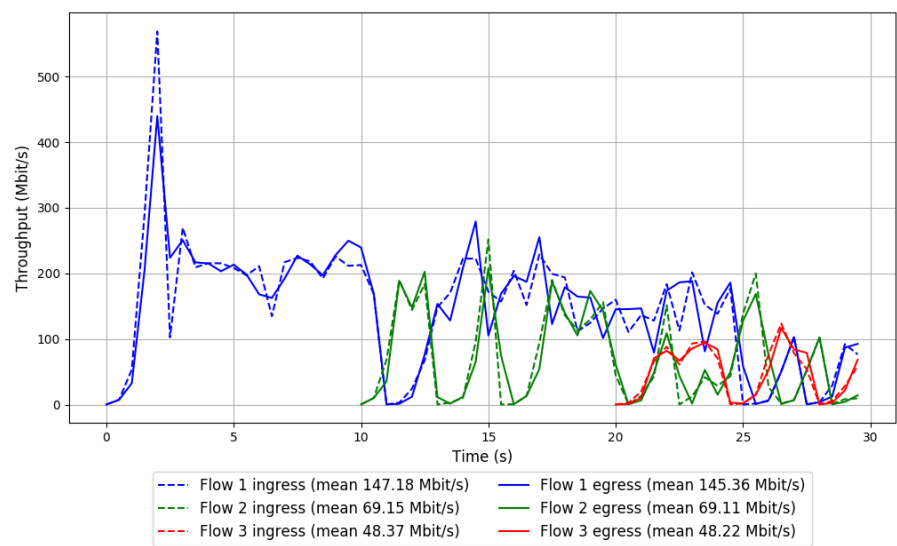
-- Flow 3:

Average throughput: 48.22 Mbit/s

95th percentile per-packet one-way delay: 137.203 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-26 12:30:05

End at: 2018-01-26 12:30:35

Below is generated by plot.py at 2018-01-26 15:43:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.69 Mbit/s

95th percentile per-packet one-way delay: 184.662 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 151.33 Mbit/s

95th percentile per-packet one-way delay: 181.438 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 121.17 Mbit/s

95th percentile per-packet one-way delay: 181.288 ms

Loss rate: 0.67%

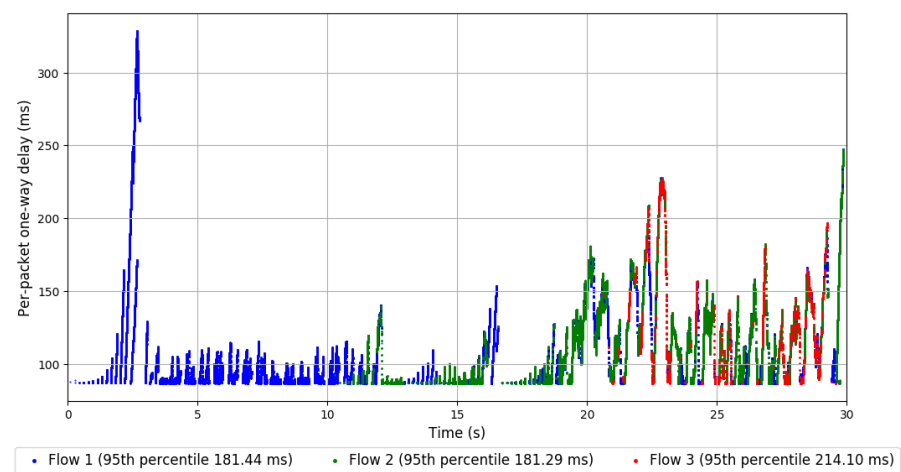
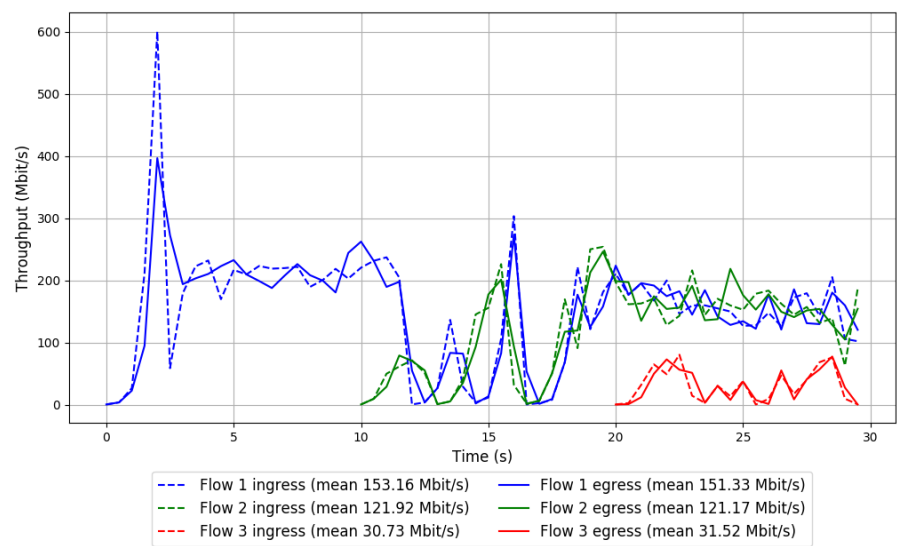
-- Flow 3:

Average throughput: 31.52 Mbit/s

95th percentile per-packet one-way delay: 214.099 ms

Loss rate: 0.05%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-26 12:44:45

End at: 2018-01-26 12:45:15

Below is generated by plot.py at 2018-01-26 15:43:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 199.98 Mbit/s

95th percentile per-packet one-way delay: 188.274 ms

Loss rate: 2.46%

-- Flow 1:

Average throughput: 91.49 Mbit/s

95th percentile per-packet one-way delay: 238.581 ms

Loss rate: 4.69%

-- Flow 2:

Average throughput: 154.87 Mbit/s

95th percentile per-packet one-way delay: 165.980 ms

Loss rate: 0.54%

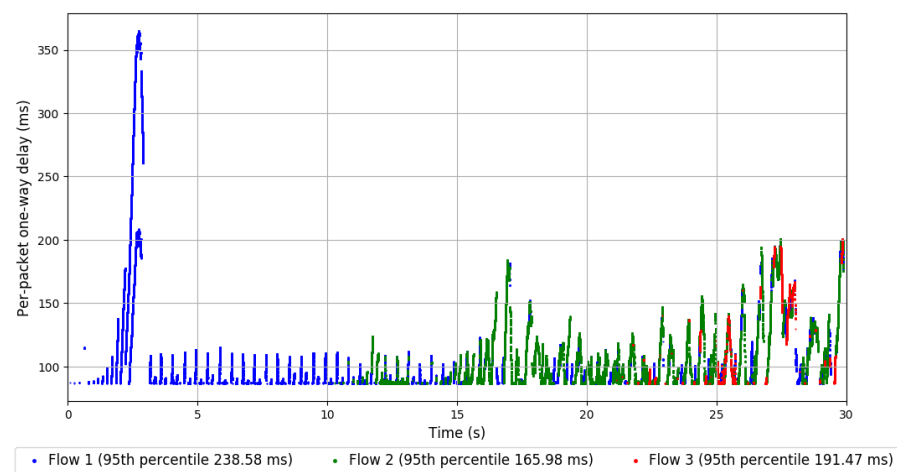
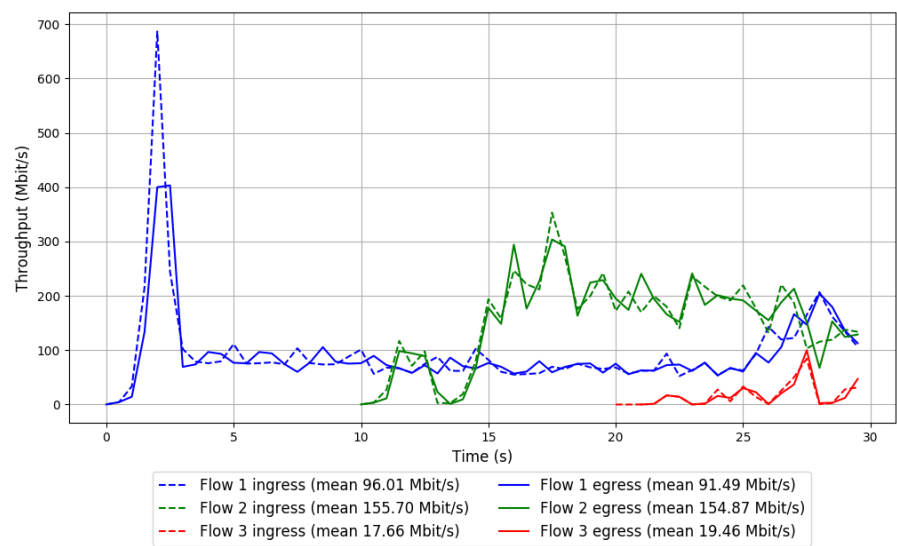
-- Flow 3:

Average throughput: 19.46 Mbit/s

95th percentile per-packet one-way delay: 191.471 ms

Loss rate: 0.01%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-26 12:59:07

End at: 2018-01-26 12:59:37

Below is generated by plot.py at 2018-01-26 15:45:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 259.43 Mbit/s

95th percentile per-packet one-way delay: 225.101 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 160.46 Mbit/s

95th percentile per-packet one-way delay: 221.365 ms

Loss rate: 1.24%

-- Flow 2:

Average throughput: 111.96 Mbit/s

95th percentile per-packet one-way delay: 224.487 ms

Loss rate: 0.59%

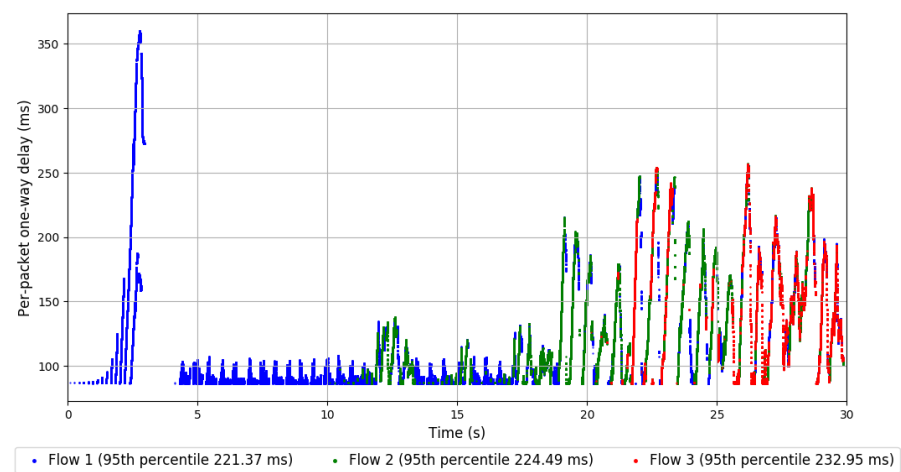
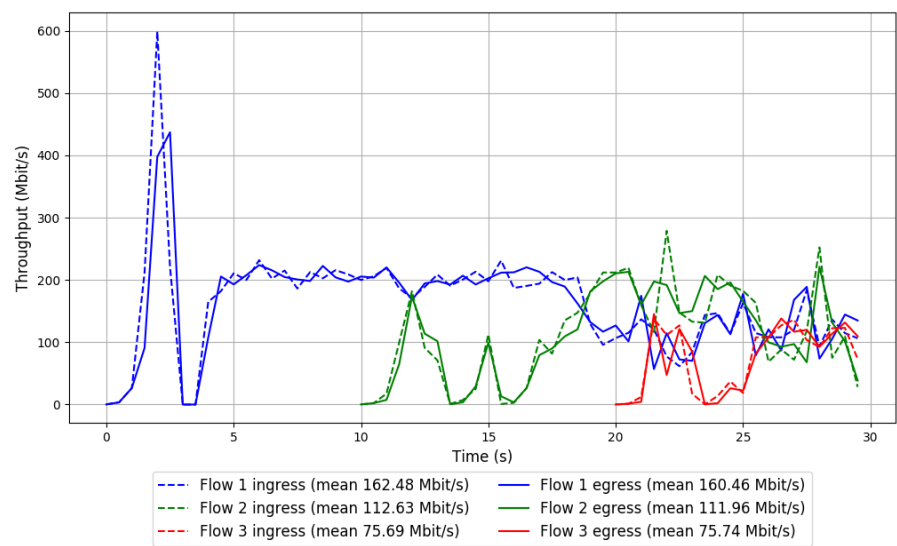
-- Flow 3:

Average throughput: 75.74 Mbit/s

95th percentile per-packet one-way delay: 232.949 ms

Loss rate: 0.15%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

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

End at: 2018-01-26 13:14:29

Below is generated by plot.py at 2018-01-26 15:45:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 216.16 Mbit/s

95th percentile per-packet one-way delay: 244.020 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 141.41 Mbit/s

95th percentile per-packet one-way delay: 262.186 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 36.82 Mbit/s

95th percentile per-packet one-way delay: 171.061 ms

Loss rate: 0.00%

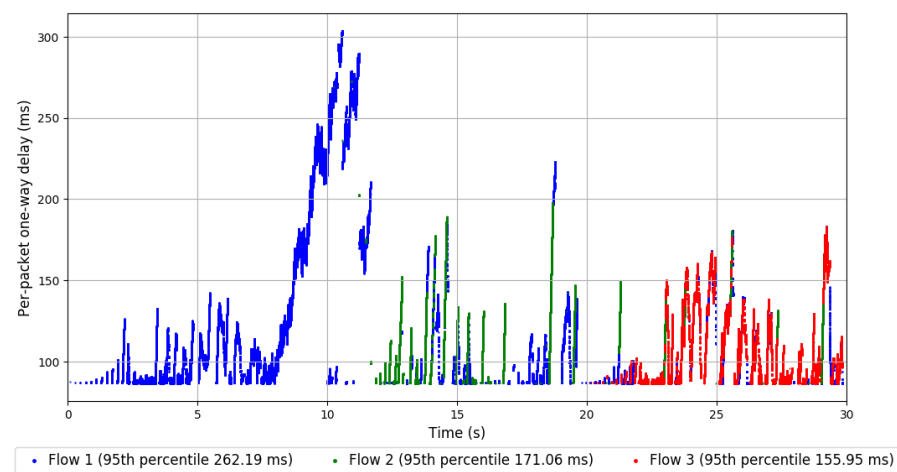
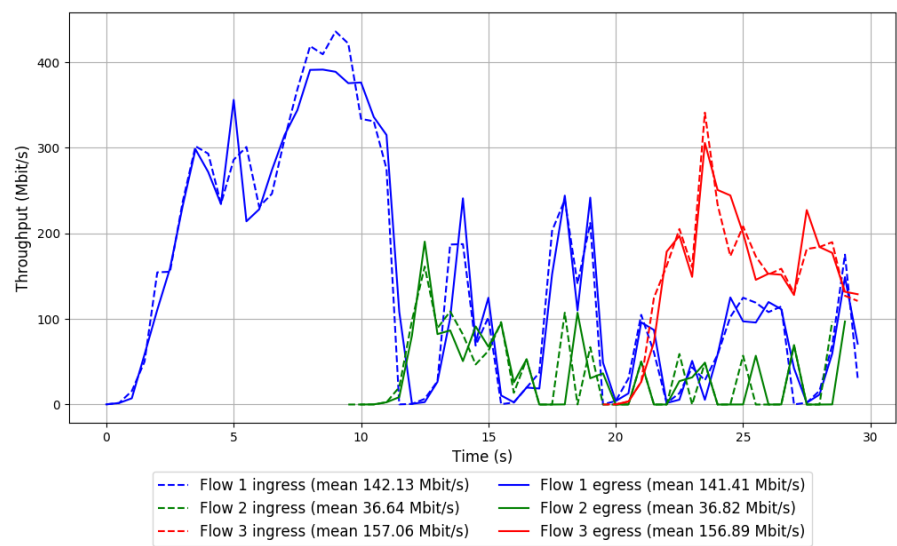
-- Flow 3:

Average throughput: 156.89 Mbit/s

95th percentile per-packet one-way delay: 155.950 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-26 13:28:40

End at: 2018-01-26 13:29:10

Below is generated by plot.py at 2018-01-26 15:46:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 232.95 Mbit/s

95th percentile per-packet one-way delay: 178.862 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 152.09 Mbit/s

95th percentile per-packet one-way delay: 170.863 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 90.01 Mbit/s

95th percentile per-packet one-way delay: 186.111 ms

Loss rate: 1.26%

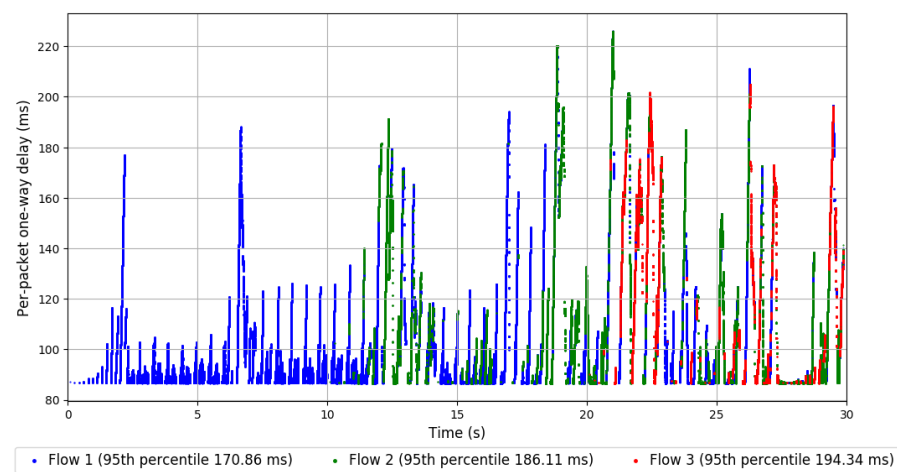
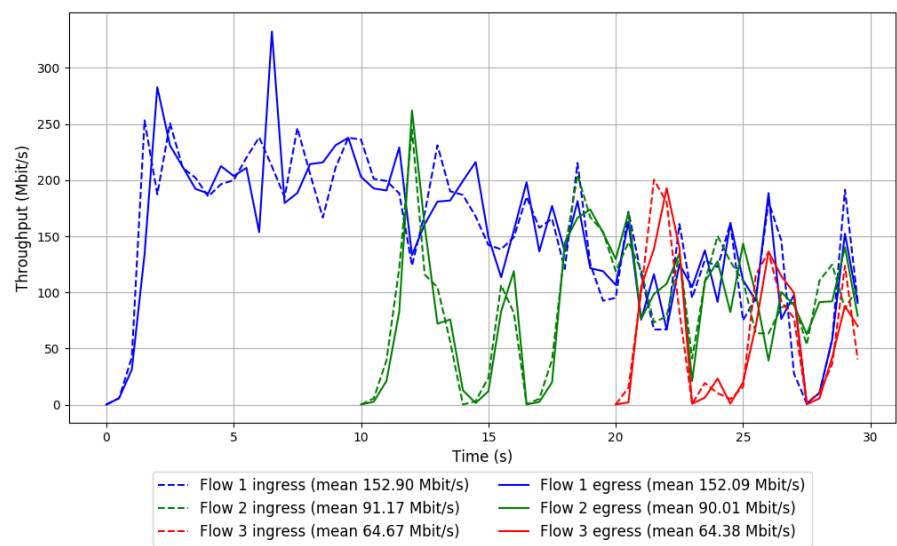
-- Flow 3:

Average throughput: 64.38 Mbit/s

95th percentile per-packet one-way delay: 194.339 ms

Loss rate: 0.49%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-26 13:43:30

End at: 2018-01-26 13:44:00

Below is generated by plot.py at 2018-01-26 15:47:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 250.91 Mbit/s

95th percentile per-packet one-way delay: 196.874 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 175.07 Mbit/s

95th percentile per-packet one-way delay: 199.169 ms

Loss rate: 1.75%

-- Flow 2:

Average throughput: 102.93 Mbit/s

95th percentile per-packet one-way delay: 193.248 ms

Loss rate: 0.27%

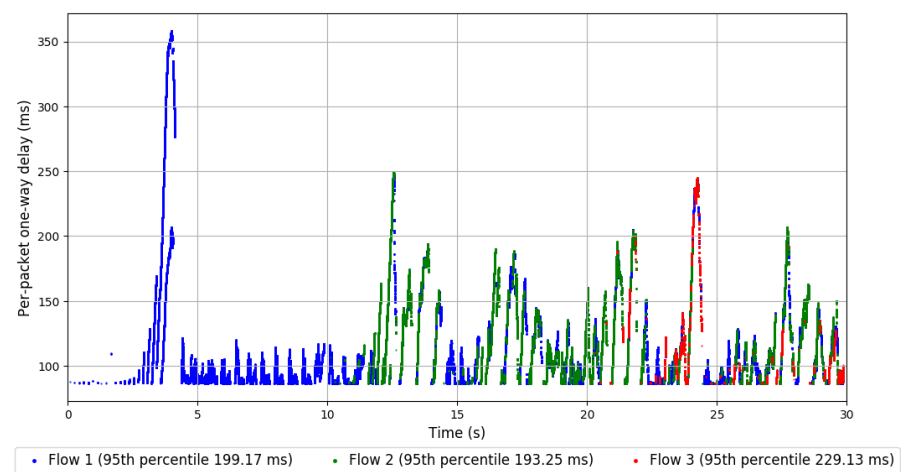
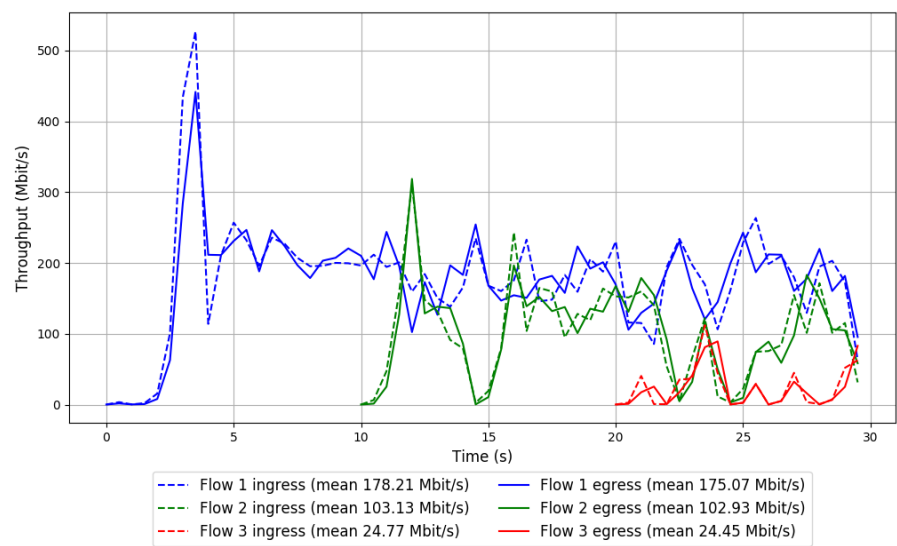
-- Flow 3:

Average throughput: 24.45 Mbit/s

95th percentile per-packet one-way delay: 229.132 ms

Loss rate: 1.33%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-26 13:58:31

End at: 2018-01-26 13:59:01

Below is generated by plot.py at 2018-01-26 15:48:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 248.27 Mbit/s

95th percentile per-packet one-way delay: 262.190 ms

Loss rate: 5.28%

-- Flow 1:

Average throughput: 130.39 Mbit/s

95th percentile per-packet one-way delay: 242.280 ms

Loss rate: 2.56%

-- Flow 2:

Average throughput: 85.63 Mbit/s

95th percentile per-packet one-way delay: 242.154 ms

Loss rate: 2.00%

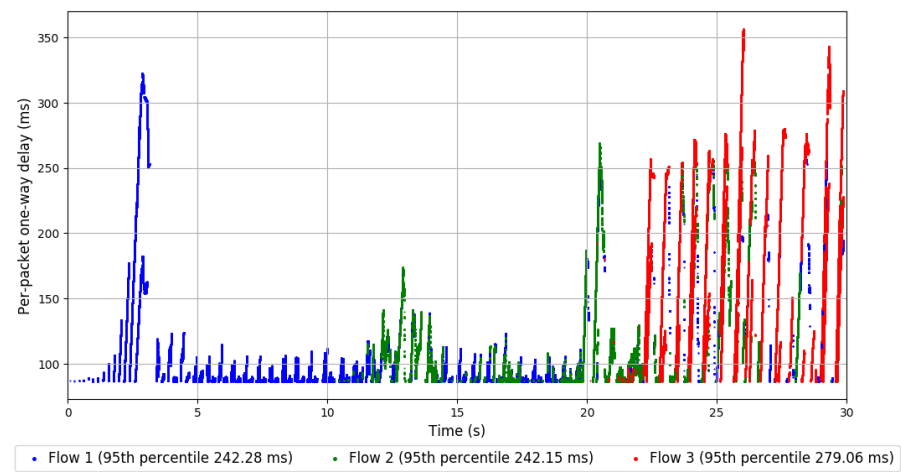
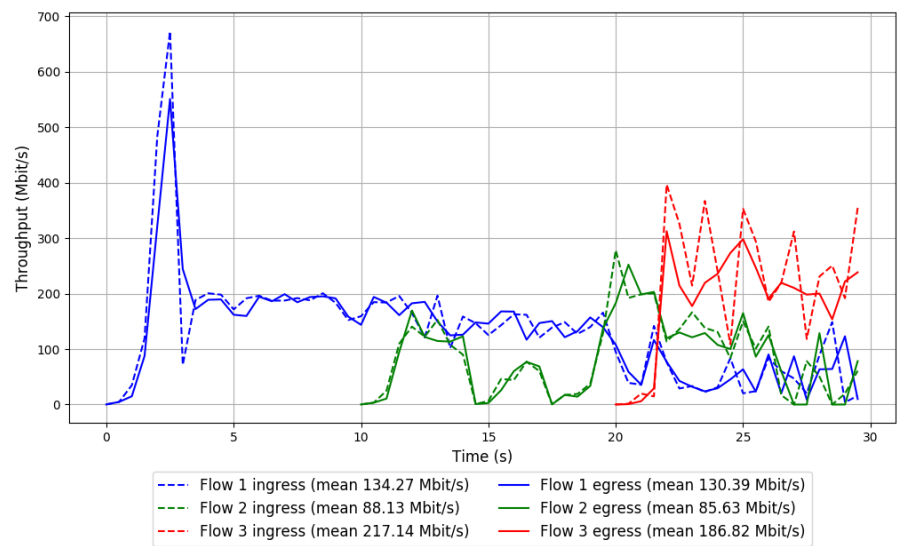
-- Flow 3:

Average throughput: 186.82 Mbit/s

95th percentile per-packet one-way delay: 279.063 ms

Loss rate: 13.15%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-26 11:37:29

End at: 2018-01-26 11:37:59

Below is generated by plot.py at 2018-01-26 15:48:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.06 Mbit/s

95th percentile per-packet one-way delay: 113.864 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 32.25 Mbit/s

95th percentile per-packet one-way delay: 113.784 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.89 Mbit/s

95th percentile per-packet one-way delay: 114.120 ms

Loss rate: 0.04%

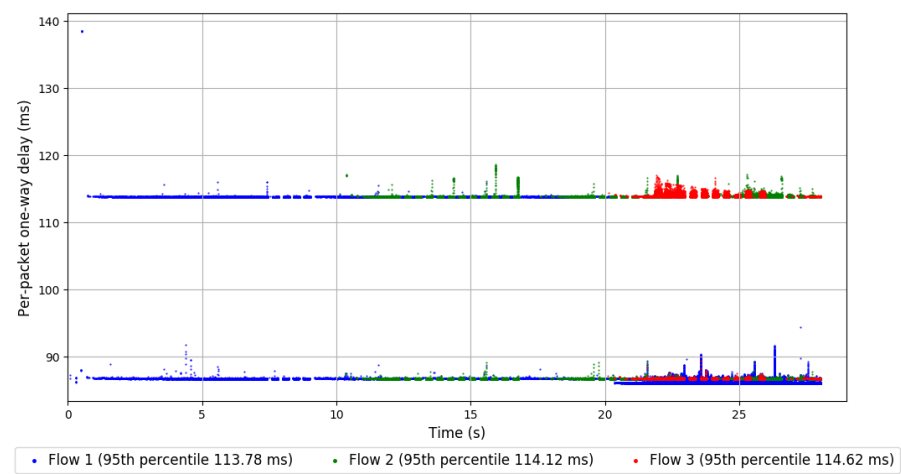
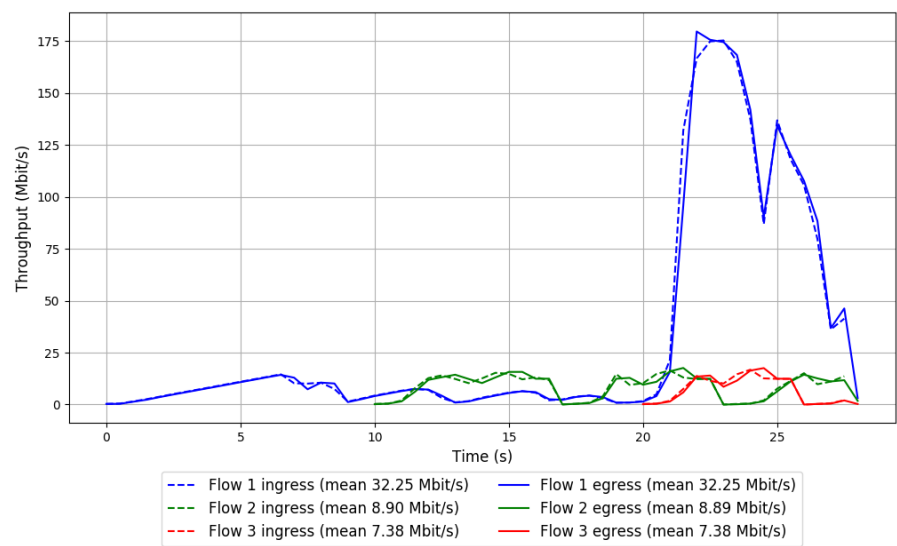
-- Flow 3:

Average throughput: 7.38 Mbit/s

95th percentile per-packet one-way delay: 114.619 ms

Loss rate: 0.02%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-26 11:52:14

End at: 2018-01-26 11:52:44

Below is generated by plot.py at 2018-01-26 15:48:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.26 Mbit/s

95th percentile per-packet one-way delay: 86.869 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 84.84 Mbit/s

95th percentile per-packet one-way delay: 86.828 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 31.11 Mbit/s

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

Loss rate: 0.00%

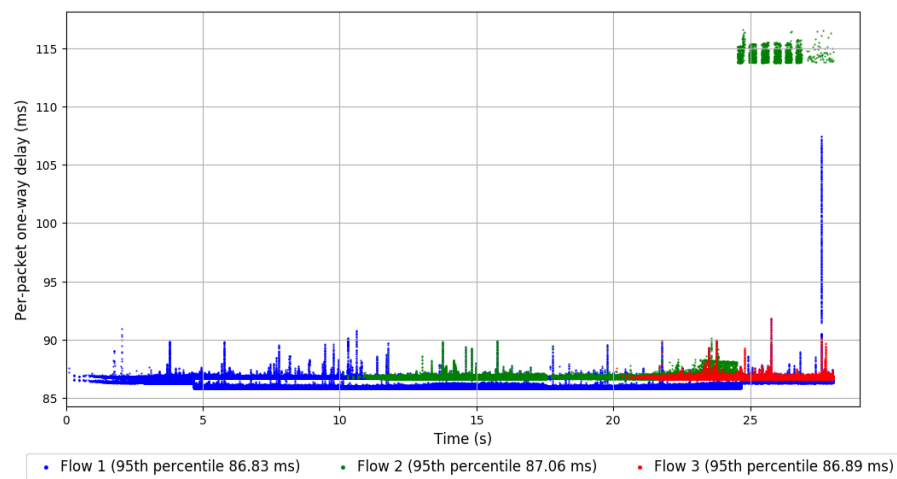
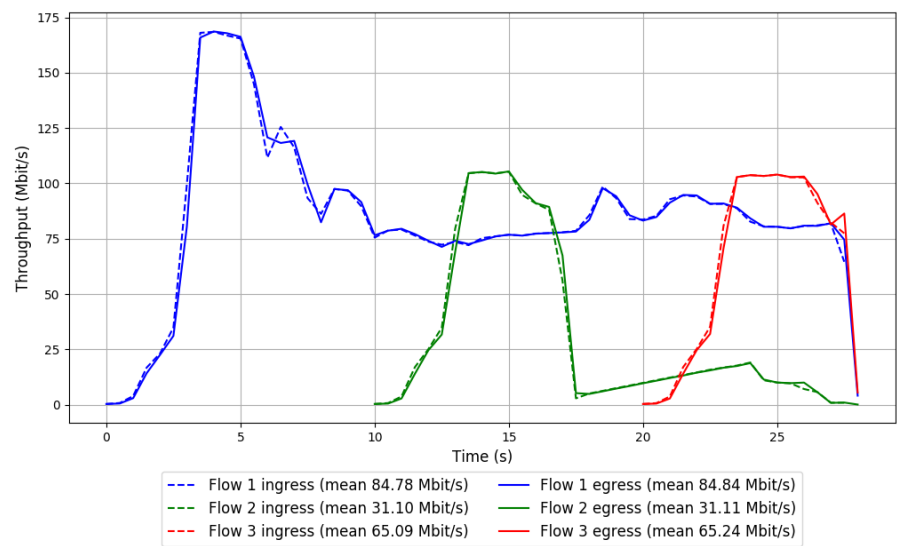
-- Flow 3:

Average throughput: 65.24 Mbit/s

95th percentile per-packet one-way delay: 86.887 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-26 12:06:52

End at: 2018-01-26 12:07:22

Below is generated by plot.py at 2018-01-26 15:48:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.51 Mbit/s

95th percentile per-packet one-way delay: 87.005 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.79 Mbit/s

95th percentile per-packet one-way delay: 87.028 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 76.83 Mbit/s

95th percentile per-packet one-way delay: 86.973 ms

Loss rate: 0.00%

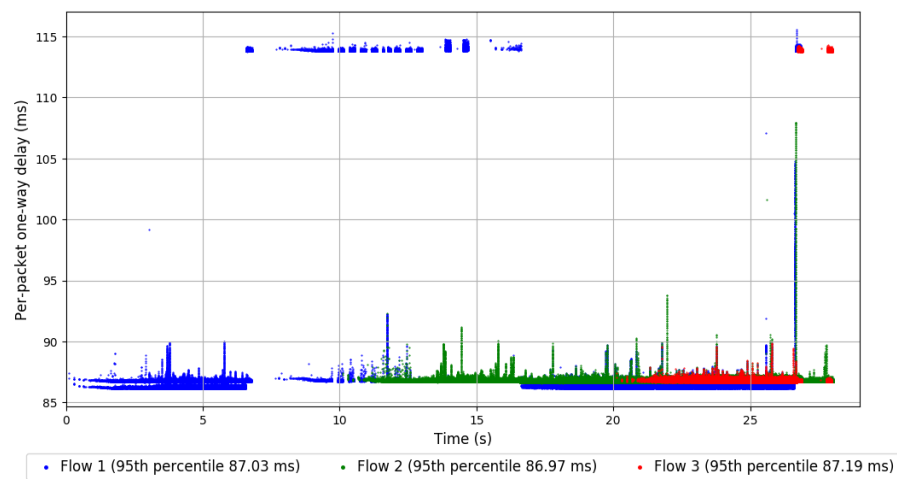
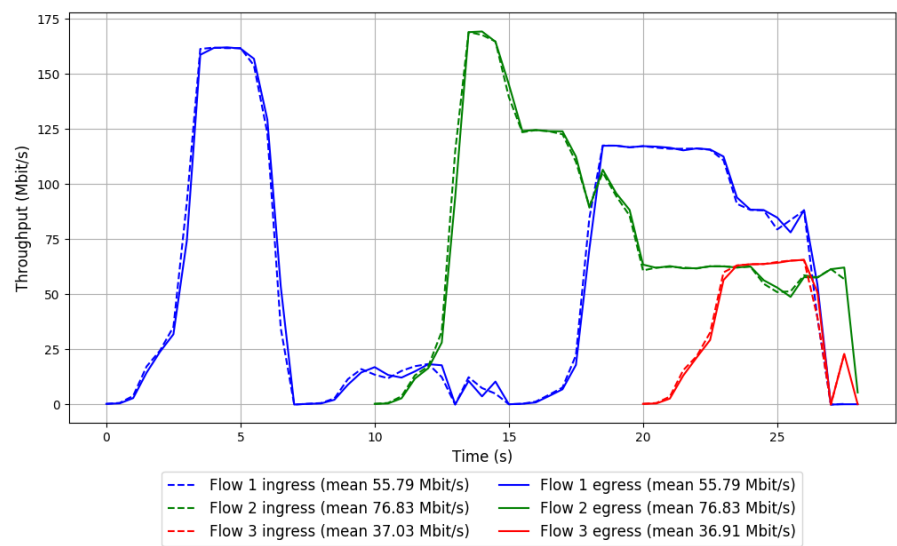
-- Flow 3:

Average throughput: 36.91 Mbit/s

95th percentile per-packet one-way delay: 87.189 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-26 12:21:39

End at: 2018-01-26 12:22:09

Below is generated by plot.py at 2018-01-26 15:48:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.88 Mbit/s

95th percentile per-packet one-way delay: 86.906 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 72.21 Mbit/s

95th percentile per-packet one-way delay: 86.859 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 77.39 Mbit/s

95th percentile per-packet one-way delay: 86.931 ms

Loss rate: 0.00%

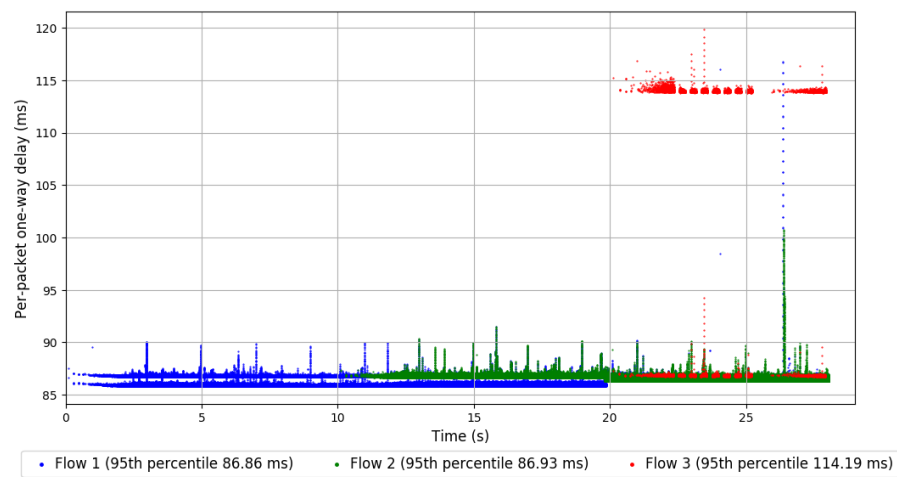
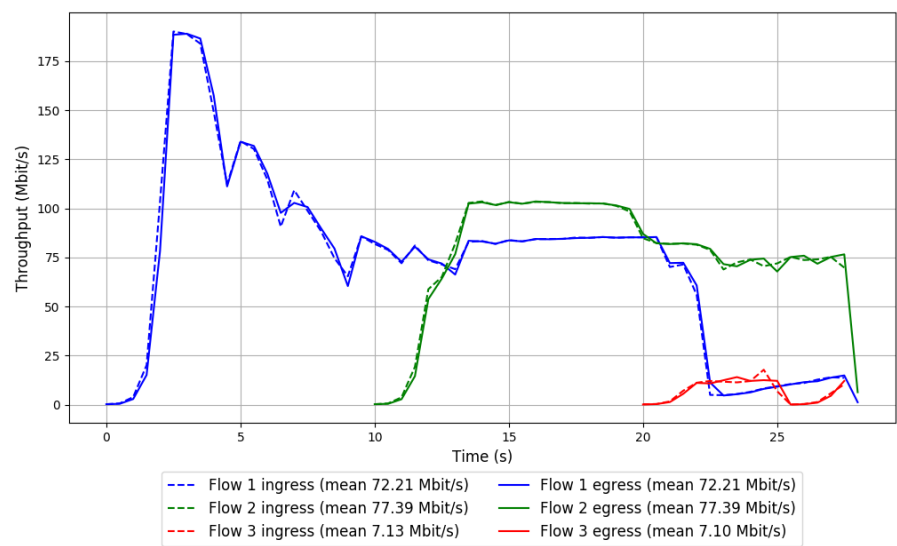
-- Flow 3:

Average throughput: 7.10 Mbit/s

95th percentile per-packet one-way delay: 114.186 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-26 12:36:16

End at: 2018-01-26 12:36:46

Below is generated by plot.py at 2018-01-26 15:49:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.58 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 76.51 Mbit/s

95th percentile per-packet one-way delay: 86.847 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 77.82 Mbit/s

95th percentile per-packet one-way delay: 86.969 ms

Loss rate: 0.00%

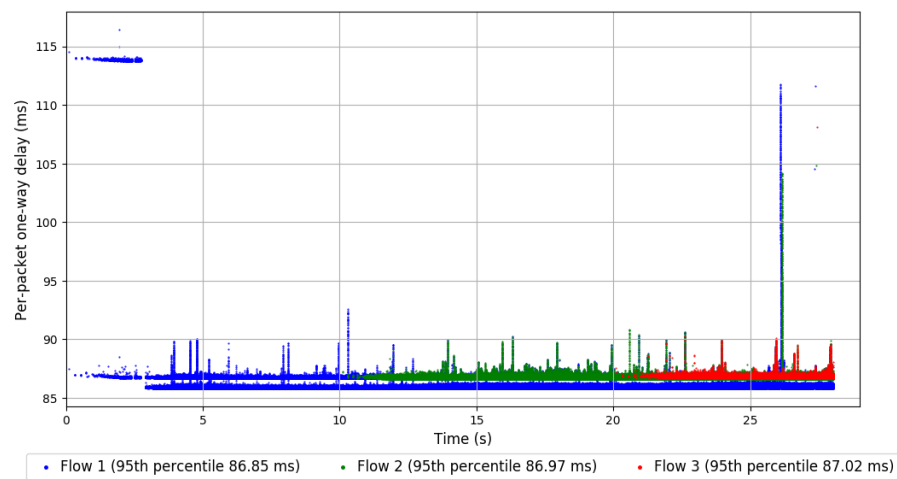
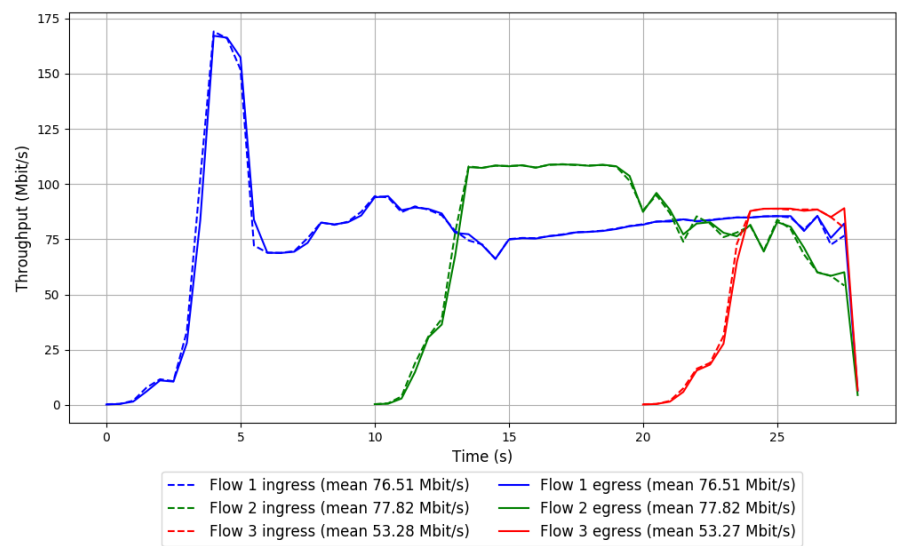
-- Flow 3:

Average throughput: 53.27 Mbit/s

95th percentile per-packet one-way delay: 87.020 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-26 12:50:47

End at: 2018-01-26 12:51:17

Below is generated by plot.py at 2018-01-26 15:49:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.63 Mbit/s

95th percentile per-packet one-way delay: 86.925 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 70.45 Mbit/s

95th percentile per-packet one-way delay: 86.918 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 67.39 Mbit/s

95th percentile per-packet one-way delay: 86.851 ms

Loss rate: 0.00%

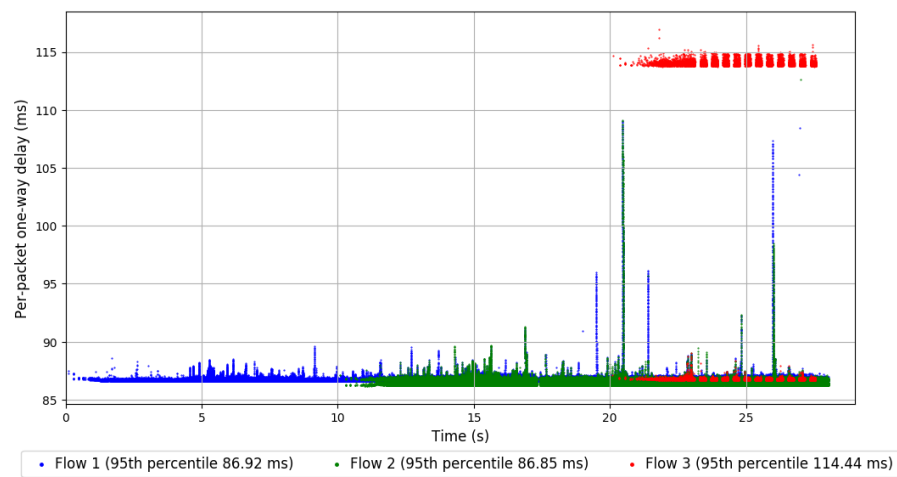
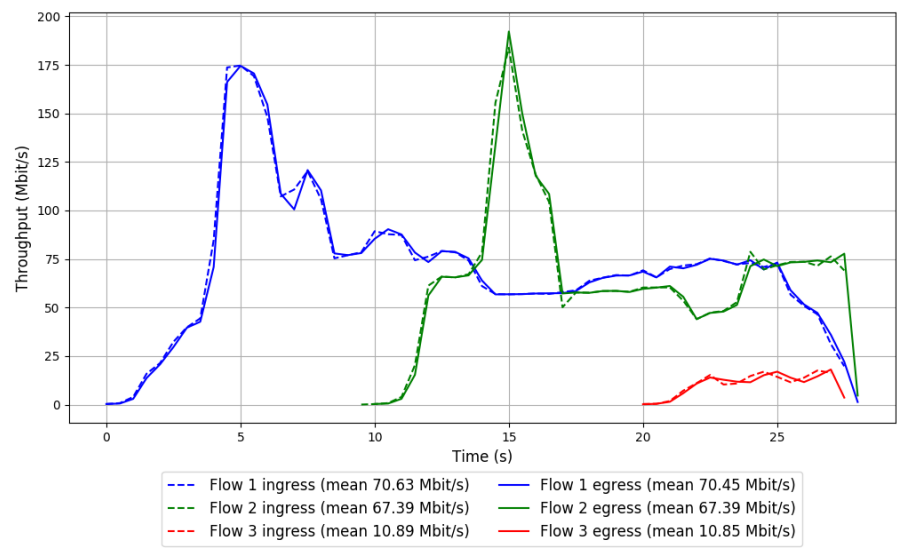
-- Flow 3:

Average throughput: 10.85 Mbit/s

95th percentile per-packet one-way delay: 114.441 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-26 13:05:30

End at: 2018-01-26 13:06:00

Below is generated by plot.py at 2018-01-26 15:50:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.31 Mbit/s

95th percentile per-packet one-way delay: 86.774 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 75.15 Mbit/s

95th percentile per-packet one-way delay: 86.759 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 71.81 Mbit/s

95th percentile per-packet one-way delay: 86.773 ms

Loss rate: 0.00%

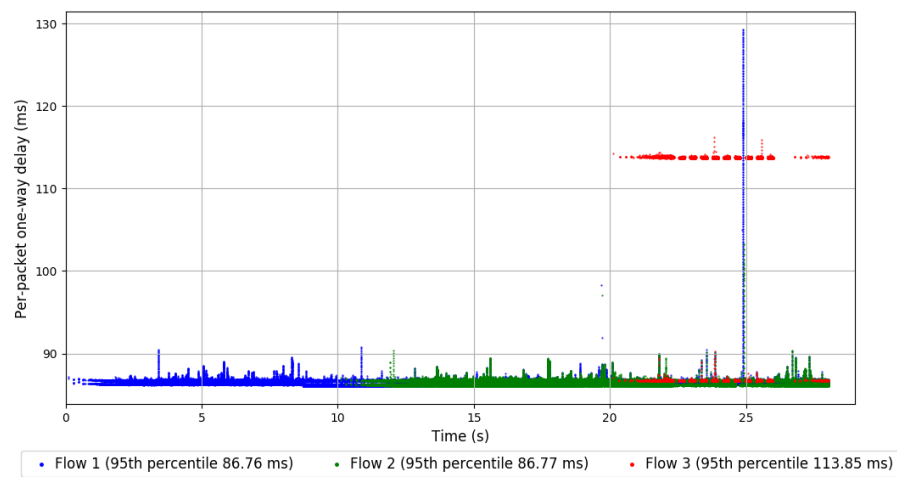
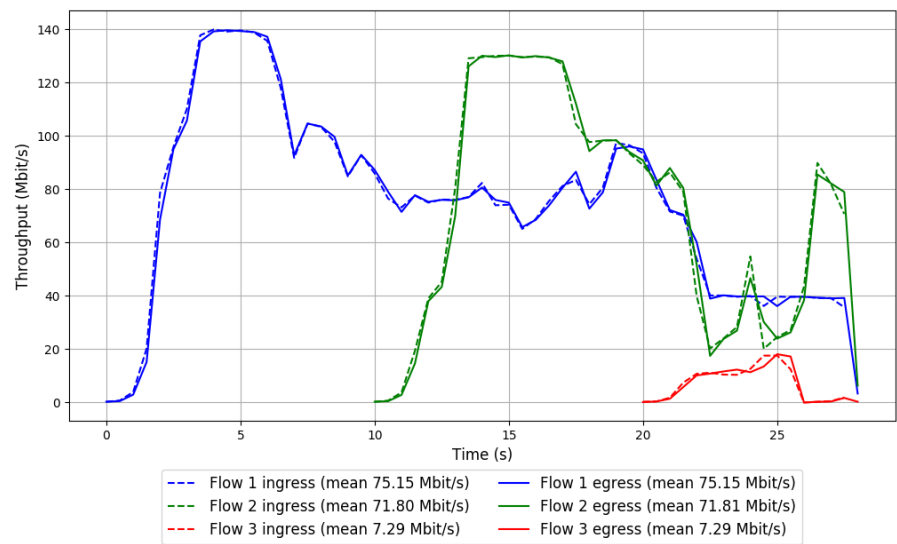
-- Flow 3:

Average throughput: 7.29 Mbit/s

95th percentile per-packet one-way delay: 113.847 ms

Loss rate: 0.01%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-26 13:20:17

End at: 2018-01-26 13:20:47

Below is generated by plot.py at 2018-01-26 15:51:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.16 Mbit/s

95th percentile per-packet one-way delay: 86.775 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.56 Mbit/s

95th percentile per-packet one-way delay: 86.777 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 71.04 Mbit/s

95th percentile per-packet one-way delay: 86.776 ms

Loss rate: 0.00%

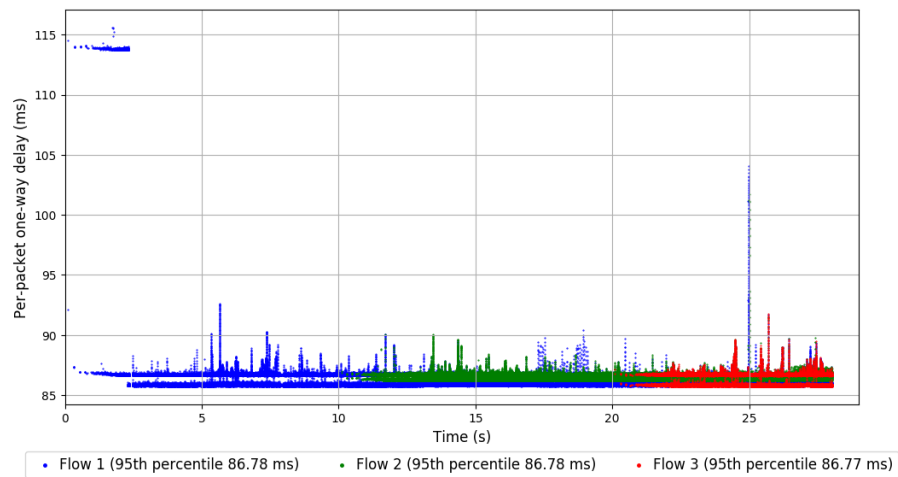
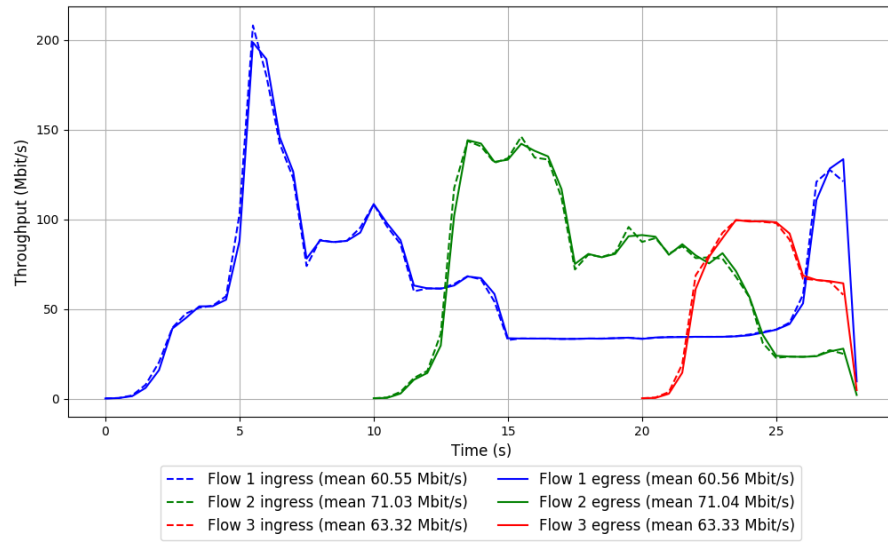
-- Flow 3:

Average throughput: 63.33 Mbit/s

95th percentile per-packet one-way delay: 86.765 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-26 13:35:10

End at: 2018-01-26 13:35:40

Below is generated by plot.py at 2018-01-26 15:51:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.60 Mbit/s

95th percentile per-packet one-way delay: 86.955 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.48 Mbit/s

95th percentile per-packet one-way delay: 86.889 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 73.44 Mbit/s

95th percentile per-packet one-way delay: 86.881 ms

Loss rate: 0.00%

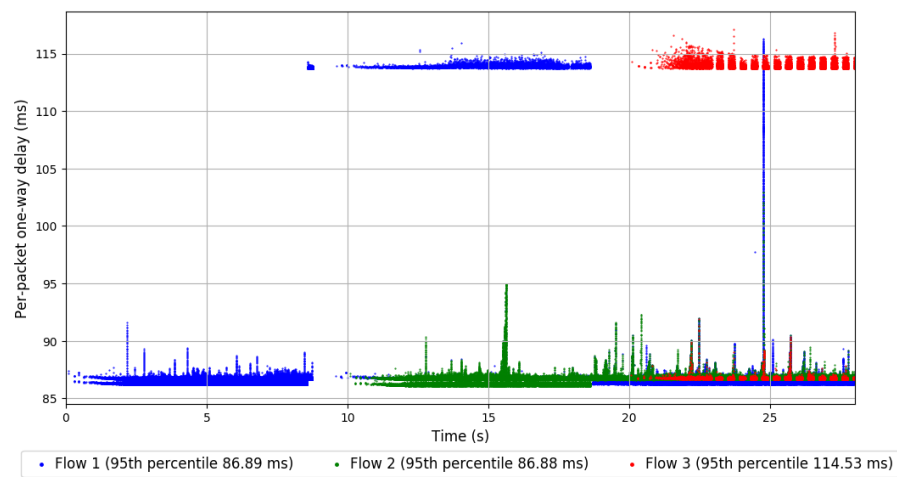
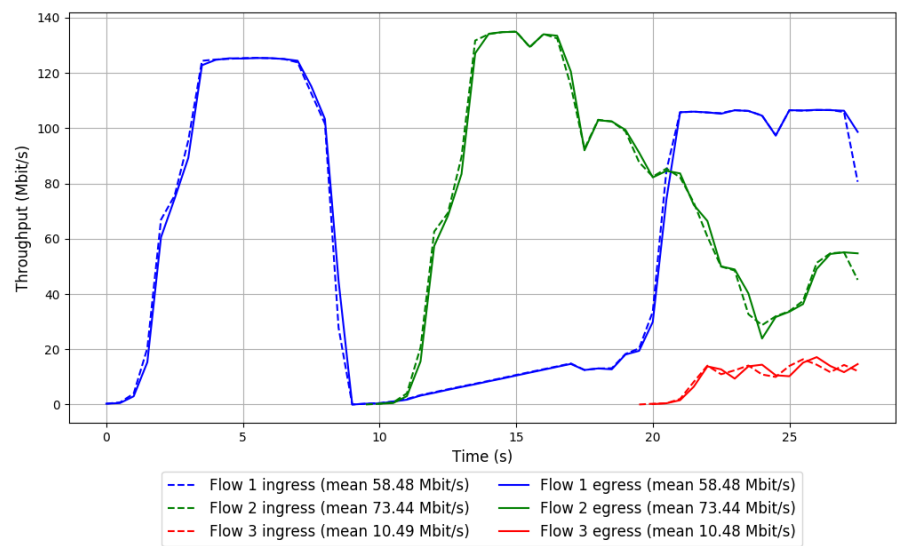
-- Flow 3:

Average throughput: 10.48 Mbit/s

95th percentile per-packet one-way delay: 114.532 ms

Loss rate: 0.07%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-26 13:49:55

End at: 2018-01-26 13:50:25

Below is generated by plot.py at 2018-01-26 15:51:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.91 Mbit/s

95th percentile per-packet one-way delay: 87.988 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.66 Mbit/s

95th percentile per-packet one-way delay: 87.635 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.63 Mbit/s

95th percentile per-packet one-way delay: 88.510 ms

Loss rate: 0.00%

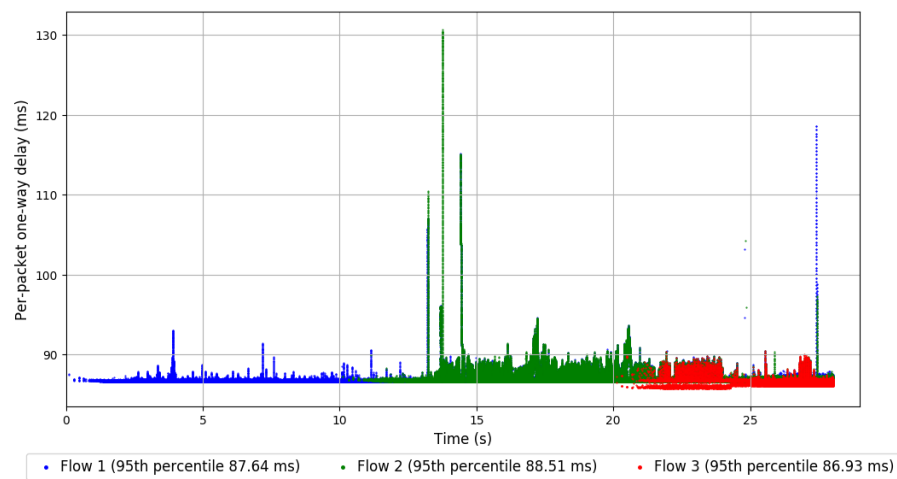
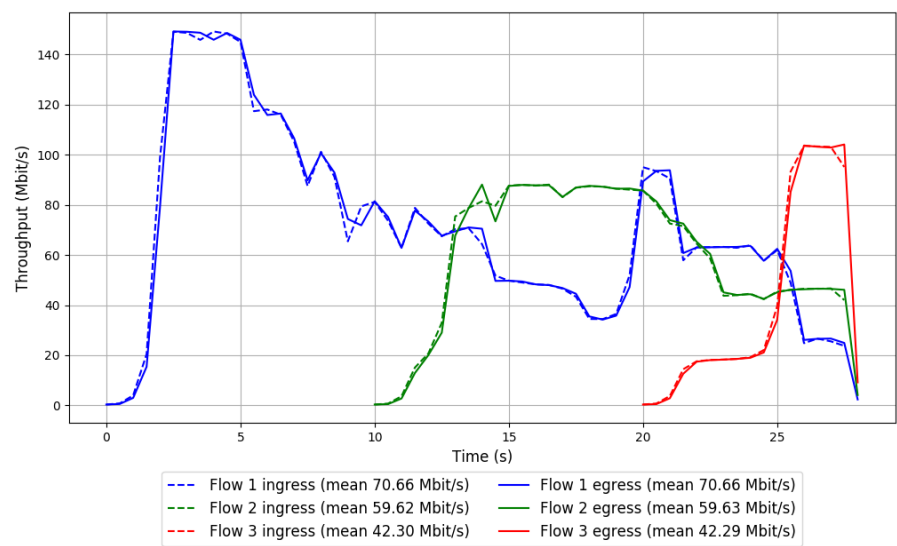
-- Flow 3:

Average throughput: 42.29 Mbit/s

95th percentile per-packet one-way delay: 86.928 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

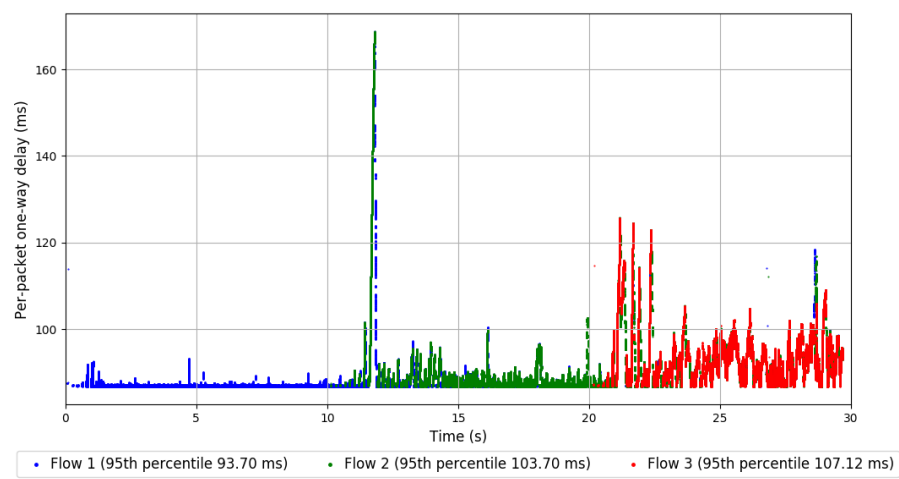
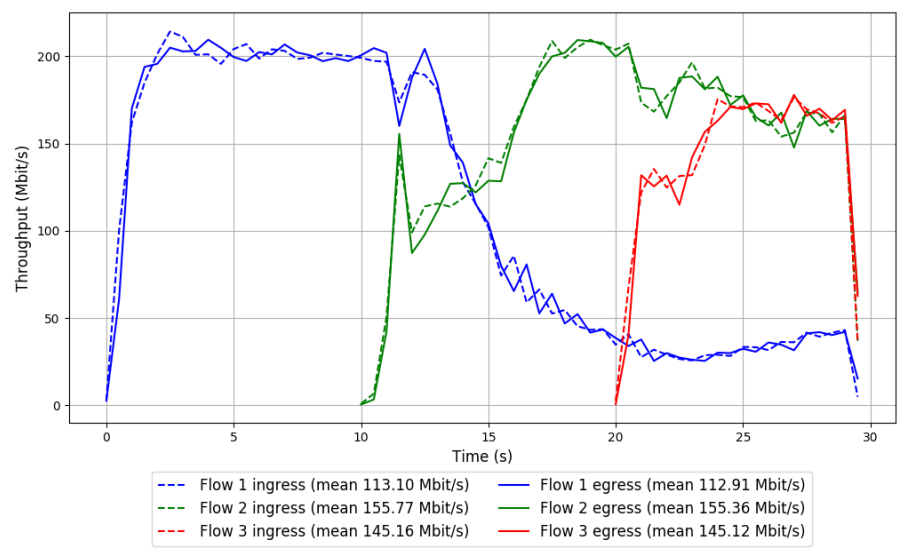


```
Run 1: Statistics of Indigo-2-256

Start at: 2018-01-26 11:44:38
End at: 2018-01-26 11:45:08

# Below is generated by plot.py at 2018-01-26 15:52:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 262.12 Mbit/s
95th percentile per-packet one-way delay: 100.854 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 112.91 Mbit/s
95th percentile per-packet one-way delay: 93.699 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 155.36 Mbit/s
95th percentile per-packet one-way delay: 103.697 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 145.12 Mbit/s
95th percentile per-packet one-way delay: 107.120 ms
Loss rate: 0.04%
```


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



Run 2: Statistics of Indigo-2-256

Start at: 2018-01-26 11:59:33

End at: 2018-01-26 12:00:03

Below is generated by plot.py at 2018-01-26 15:52:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 266.44 Mbit/s

95th percentile per-packet one-way delay: 109.569 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 170.06 Mbit/s

95th percentile per-packet one-way delay: 107.745 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 83.08 Mbit/s

95th percentile per-packet one-way delay: 115.449 ms

Loss rate: 0.10%

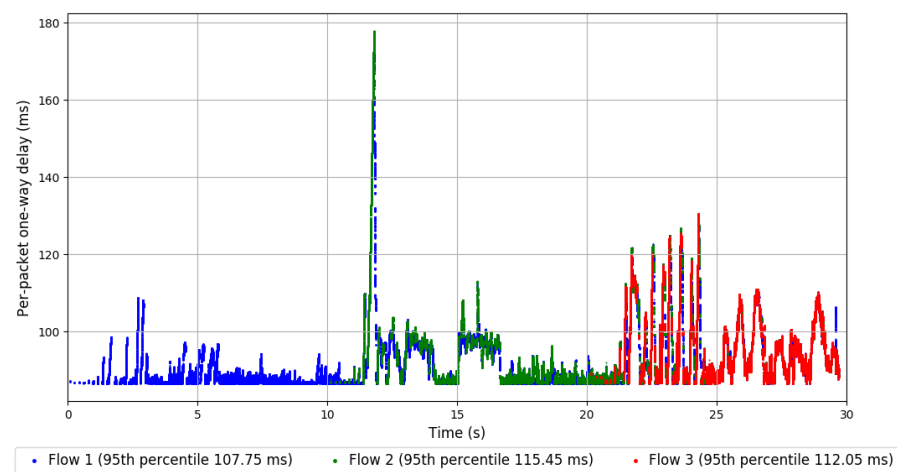
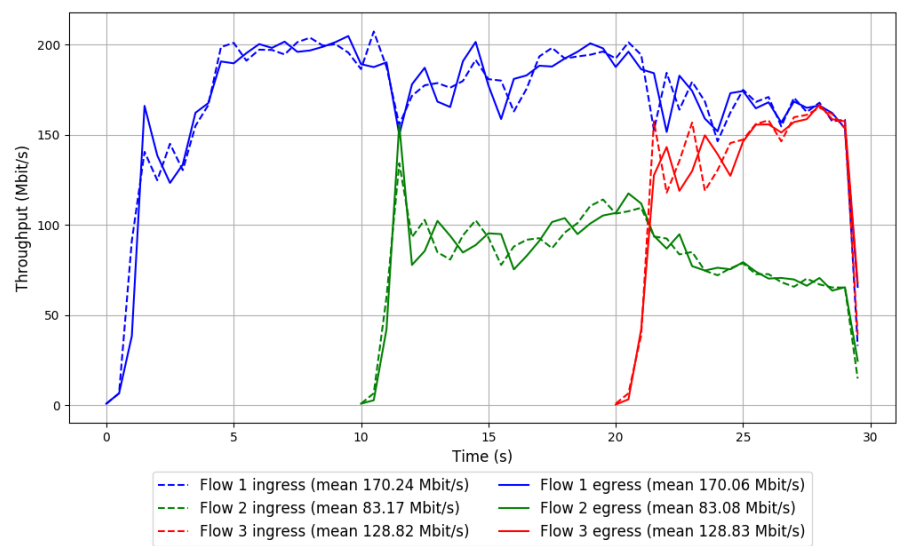
-- Flow 3:

Average throughput: 128.83 Mbit/s

95th percentile per-packet one-way delay: 112.051 ms

Loss rate: 0.00%

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



Run 3: Statistics of Indigo-2-256

Start at: 2018-01-26 12:14:17

End at: 2018-01-26 12:14:47

Below is generated by plot.py at 2018-01-26 15:53:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 276.81 Mbit/s

95th percentile per-packet one-way delay: 109.582 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 174.47 Mbit/s

95th percentile per-packet one-way delay: 106.220 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 120.81 Mbit/s

95th percentile per-packet one-way delay: 112.810 ms

Loss rate: 0.00%

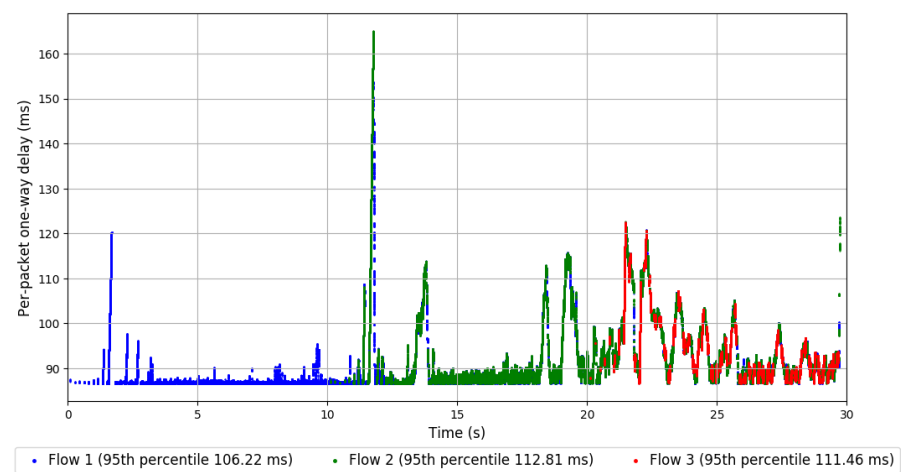
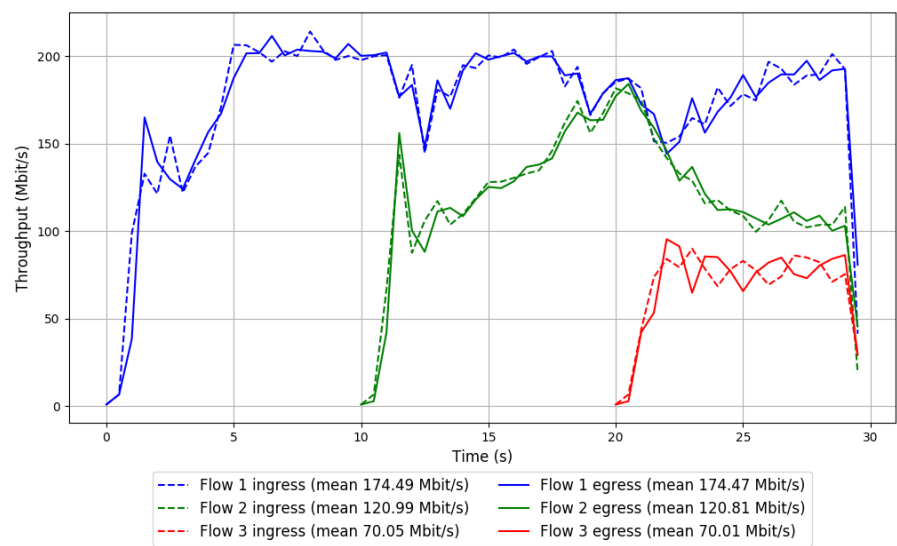
-- Flow 3:

Average throughput: 70.01 Mbit/s

95th percentile per-packet one-way delay: 111.461 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-2-256

Start at: 2018-01-26 12:28:58

End at: 2018-01-26 12:29:28

Below is generated by plot.py at 2018-01-26 15:54:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 299.11 Mbit/s

95th percentile per-packet one-way delay: 102.769 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 167.78 Mbit/s

95th percentile per-packet one-way delay: 101.306 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 167.99 Mbit/s

95th percentile per-packet one-way delay: 102.968 ms

Loss rate: 0.04%

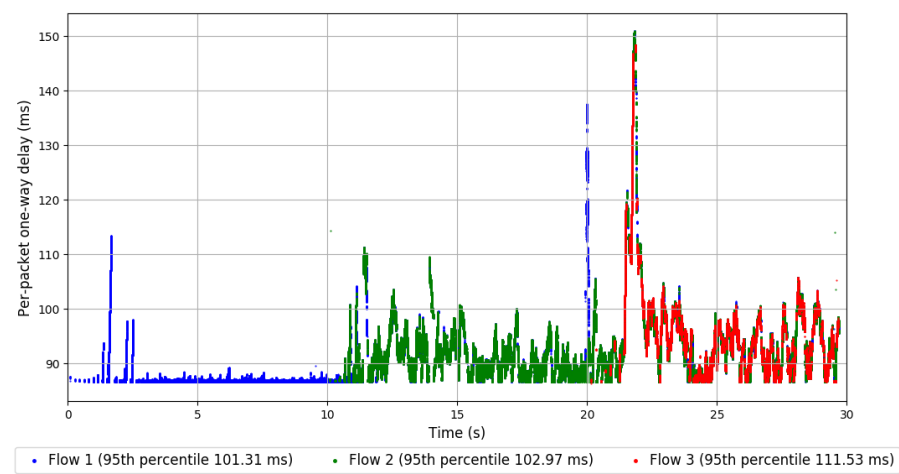
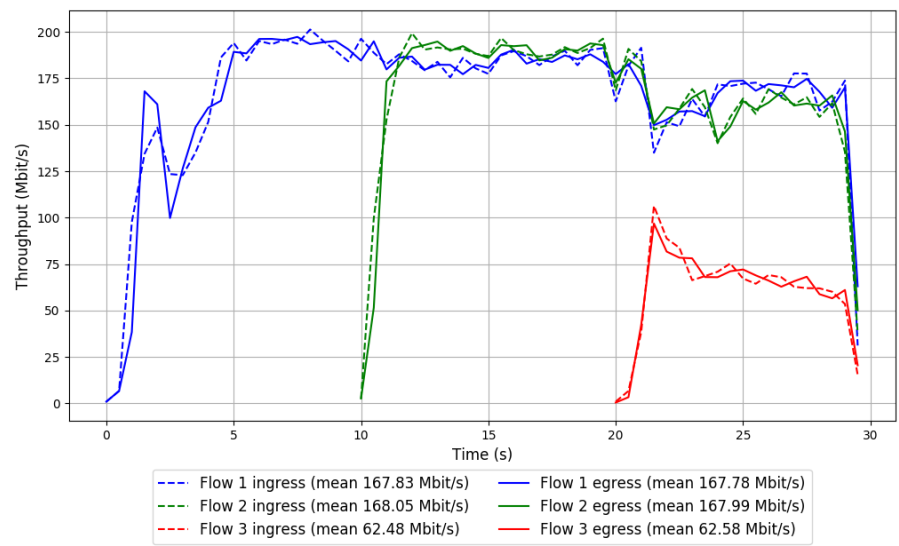
-- Flow 3:

Average throughput: 62.58 Mbit/s

95th percentile per-packet one-way delay: 111.531 ms

Loss rate: 0.11%

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



Run 5: Statistics of Indigo-2-256

Start at: 2018-01-26 12:43:37

End at: 2018-01-26 12:44:07

Below is generated by plot.py at 2018-01-26 15:55:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 293.55 Mbit/s

95th percentile per-packet one-way delay: 101.275 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 168.37 Mbit/s

95th percentile per-packet one-way delay: 100.053 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 160.50 Mbit/s

95th percentile per-packet one-way delay: 101.783 ms

Loss rate: 0.05%

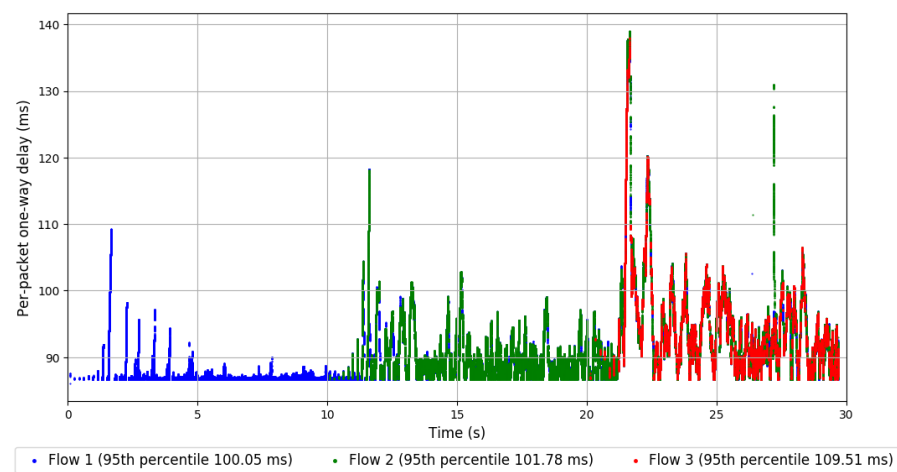
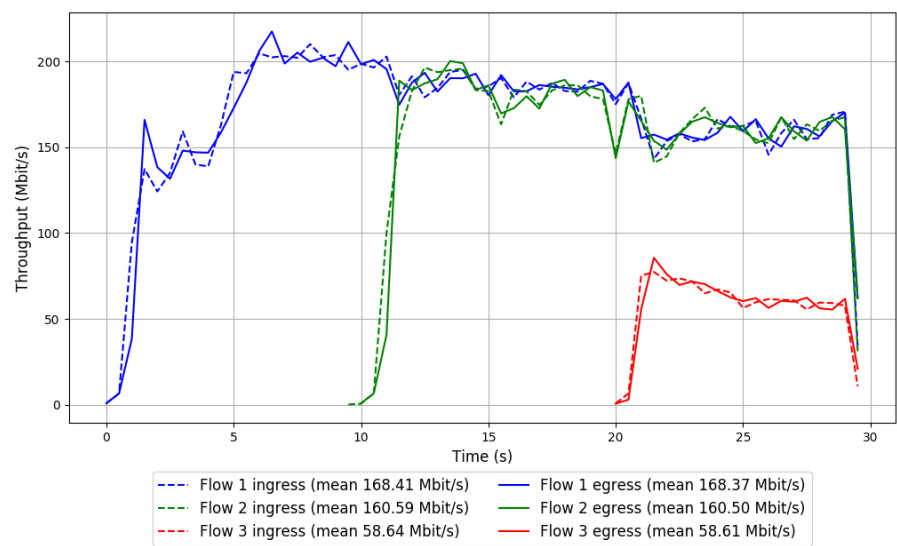
-- Flow 3:

Average throughput: 58.61 Mbit/s

95th percentile per-packet one-way delay: 109.510 ms

Loss rate: 0.00%

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



Run 6: Statistics of Indigo-2-256

Start at: 2018-01-26 12:58:00

End at: 2018-01-26 12:58:30

Below is generated by plot.py at 2018-01-26 15:55:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 288.37 Mbit/s

95th percentile per-packet one-way delay: 100.978 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 173.71 Mbit/s

95th percentile per-packet one-way delay: 98.910 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 139.15 Mbit/s

95th percentile per-packet one-way delay: 104.870 ms

Loss rate: 0.05%

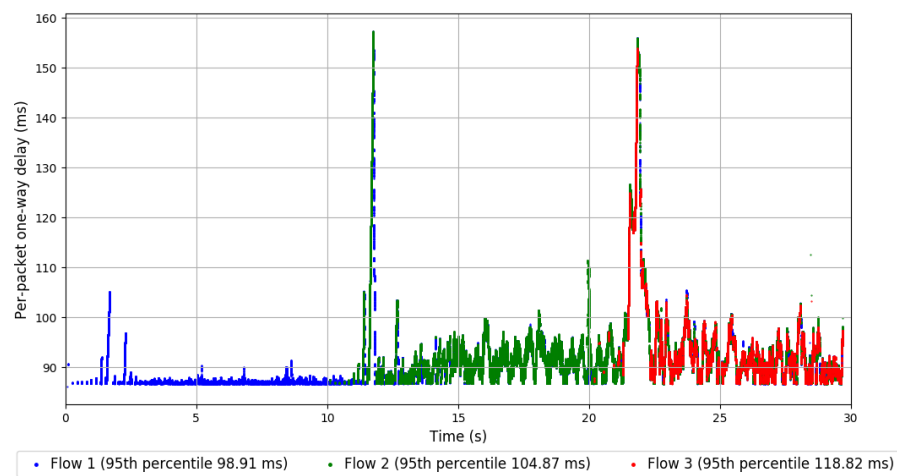
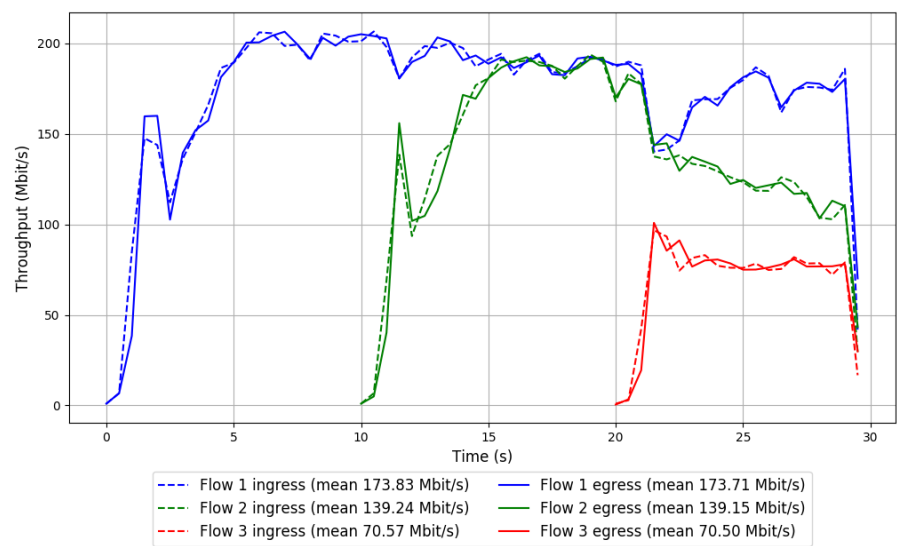
-- Flow 3:

Average throughput: 70.50 Mbit/s

95th percentile per-packet one-way delay: 118.816 ms

Loss rate: 0.00%

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



Run 7: Statistics of Indigo-2-256

Start at: 2018-01-26 13:12:52

End at: 2018-01-26 13:13:22

Below is generated by plot.py at 2018-01-26 15:56:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 285.18 Mbit/s

95th percentile per-packet one-way delay: 113.947 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 174.09 Mbit/s

95th percentile per-packet one-way delay: 107.990 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 123.65 Mbit/s

95th percentile per-packet one-way delay: 117.330 ms

Loss rate: 0.04%

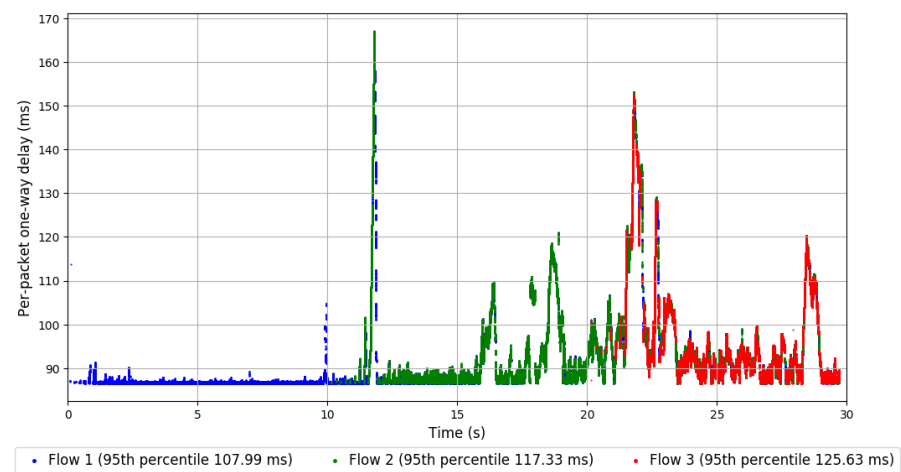
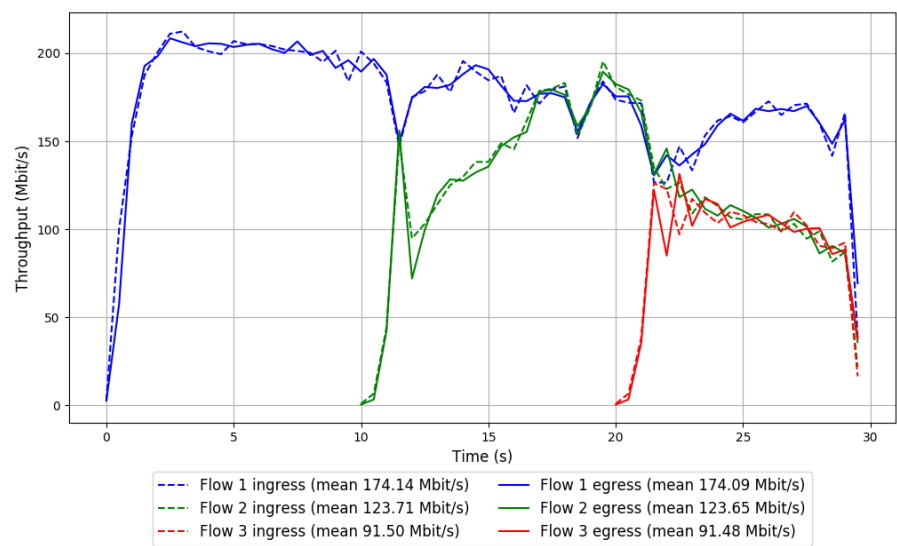
-- Flow 3:

Average throughput: 91.48 Mbit/s

95th percentile per-packet one-way delay: 125.630 ms

Loss rate: 0.02%

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



Run 8: Statistics of Indigo-2-256

Start at: 2018-01-26 13:27:33

End at: 2018-01-26 13:28:03

Below is generated by plot.py at 2018-01-26 15:56:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 295.29 Mbit/s

95th percentile per-packet one-way delay: 105.030 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 169.76 Mbit/s

95th percentile per-packet one-way delay: 103.144 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 159.98 Mbit/s

95th percentile per-packet one-way delay: 105.509 ms

Loss rate: 0.01%

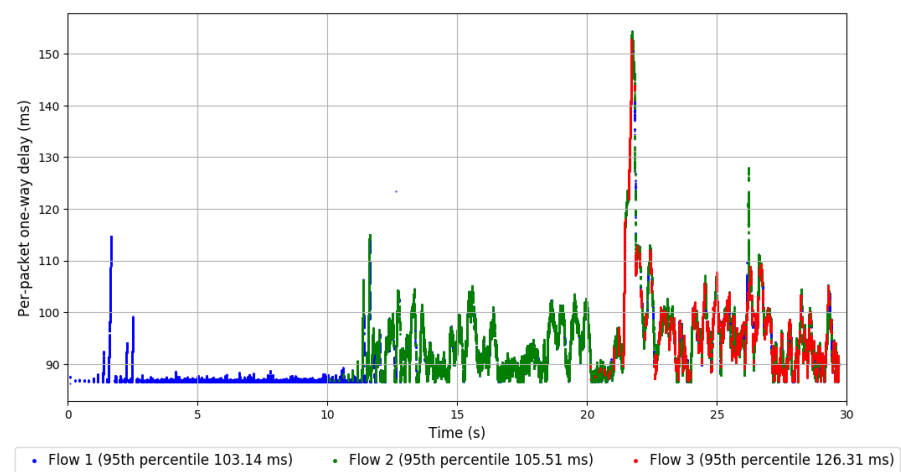
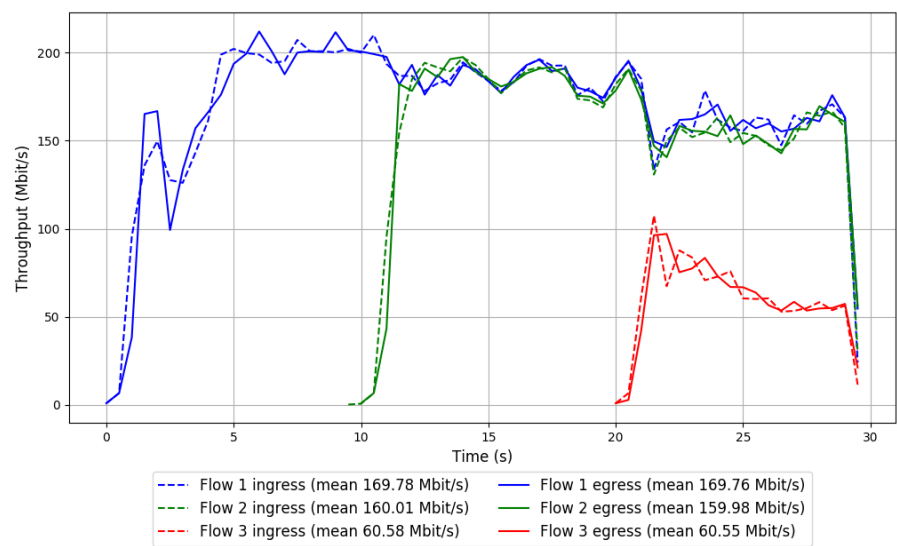
-- Flow 3:

Average throughput: 60.55 Mbit/s

95th percentile per-packet one-way delay: 126.306 ms

Loss rate: 0.00%

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



Run 9: Statistics of Indigo-2-256

Start at: 2018-01-26 13:42:24

End at: 2018-01-26 13:42:54

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 272.21 Mbit/s

95th percentile per-packet one-way delay: 106.717 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 165.08 Mbit/s

95th percentile per-packet one-way delay: 105.963 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 157.42 Mbit/s

95th percentile per-packet one-way delay: 107.574 ms

Loss rate: 0.16%

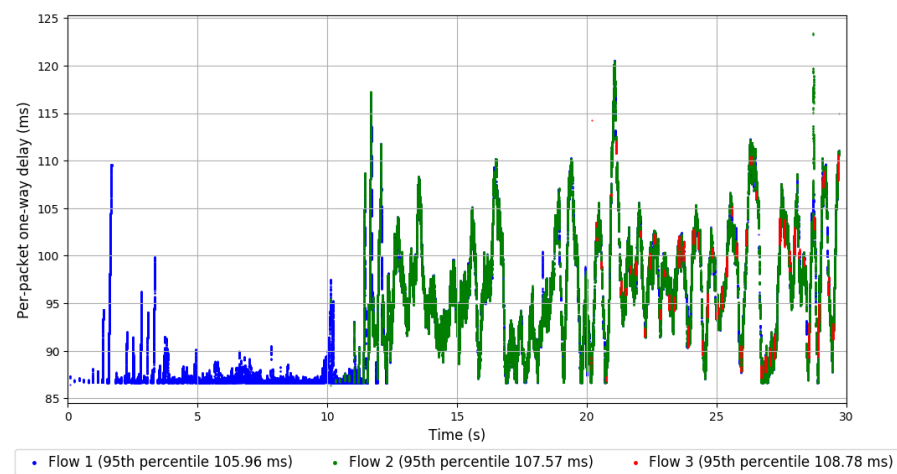
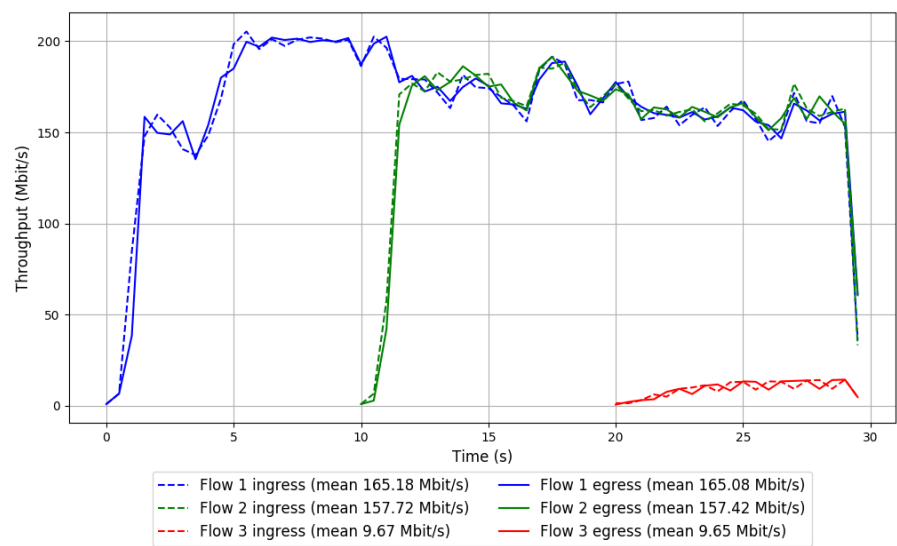
-- Flow 3:

Average throughput: 9.65 Mbit/s

95th percentile per-packet one-way delay: 108.784 ms

Loss rate: 0.00%

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



Run 10: Statistics of Indigo-2-256

Start at: 2018-01-26 13:57:25

End at: 2018-01-26 13:57:55

Below is generated by plot.py at 2018-01-26 15:57:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 265.09 Mbit/s

95th percentile per-packet one-way delay: 106.143 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 164.73 Mbit/s

95th percentile per-packet one-way delay: 104.181 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 141.03 Mbit/s

95th percentile per-packet one-way delay: 107.749 ms

Loss rate: 0.04%

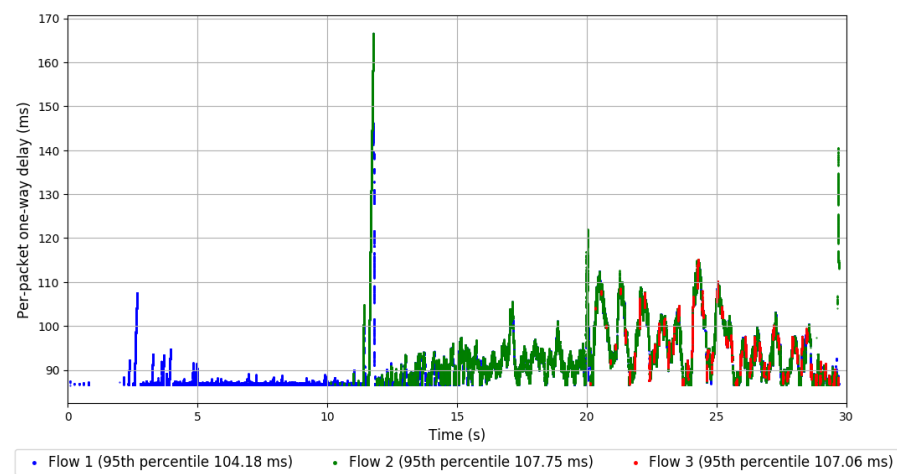
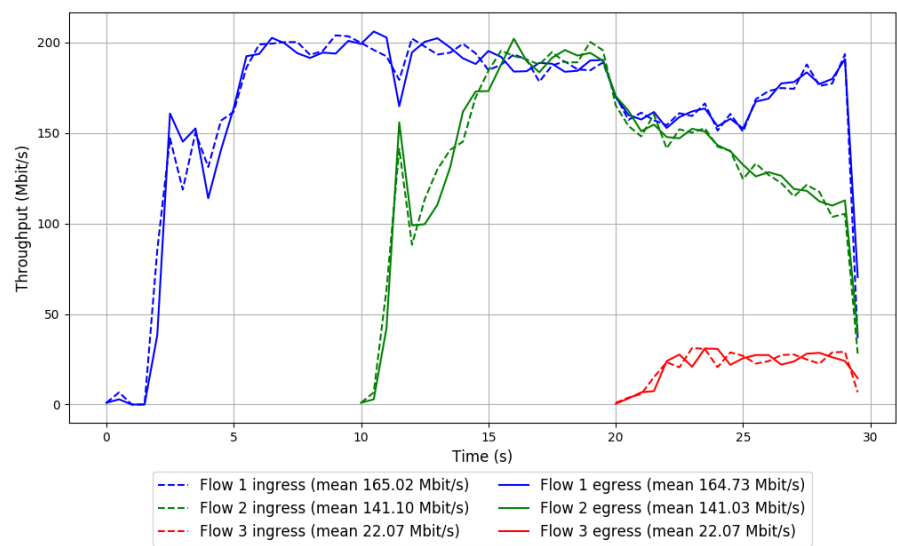
-- Flow 3:

Average throughput: 22.07 Mbit/s

95th percentile per-packet one-way delay: 107.059 ms

Loss rate: 0.00%

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

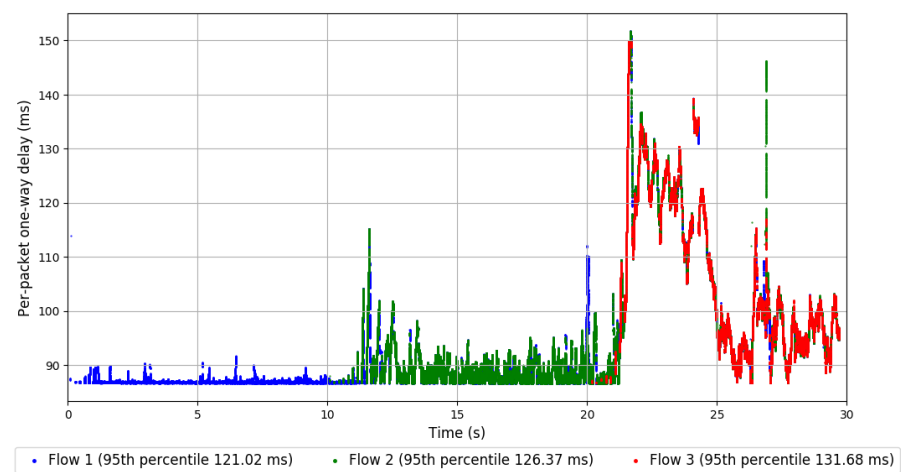
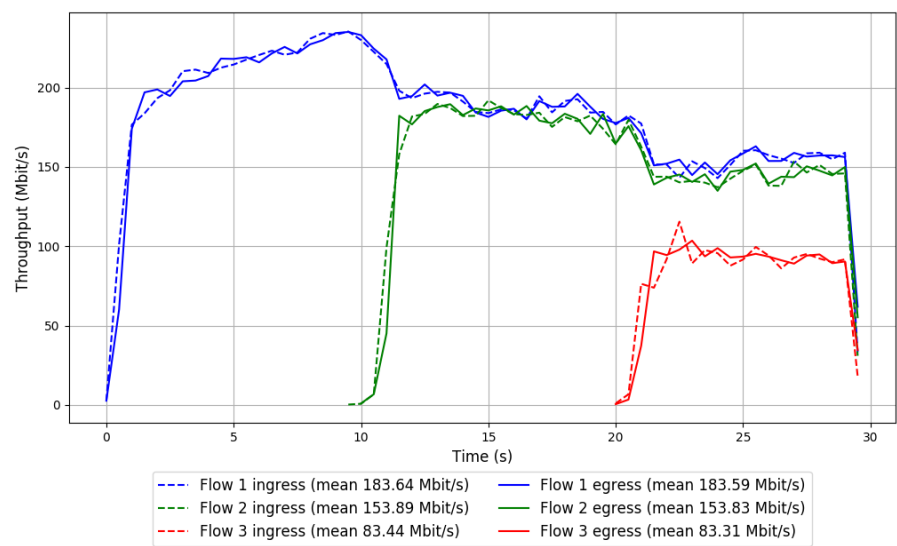


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-01-26 11:46:49
End at: 2018-01-26 11:47:19

# Below is generated by plot.py at 2018-01-26 15:59:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 312.25 Mbit/s
95th percentile per-packet one-way delay: 125.083 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 183.59 Mbit/s
95th percentile per-packet one-way delay: 121.022 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 153.83 Mbit/s
95th percentile per-packet one-way delay: 126.369 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 83.31 Mbit/s
95th percentile per-packet one-way delay: 131.676 ms
Loss rate: 0.13%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-01-26 12:01:41

End at: 2018-01-26 12:02:11

Below is generated by plot.py at 2018-01-26 15:59:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 304.64 Mbit/s

95th percentile per-packet one-way delay: 142.776 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 173.26 Mbit/s

95th percentile per-packet one-way delay: 129.315 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 151.60 Mbit/s

95th percentile per-packet one-way delay: 143.432 ms

Loss rate: 0.10%

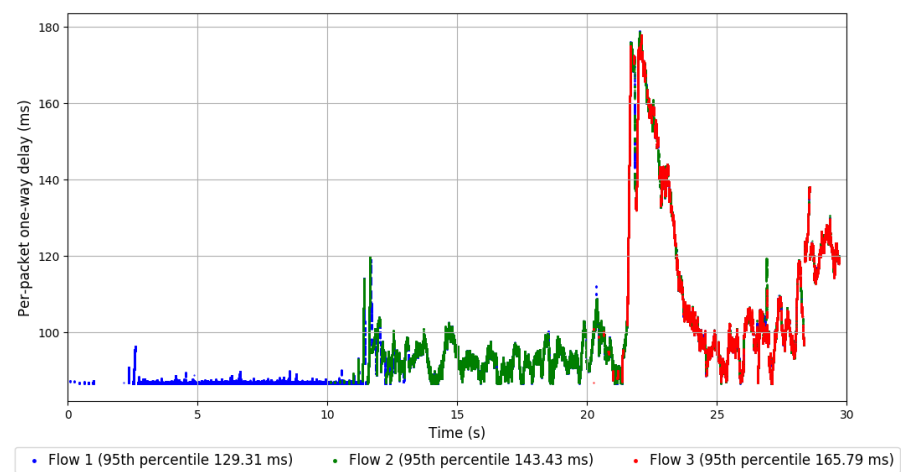
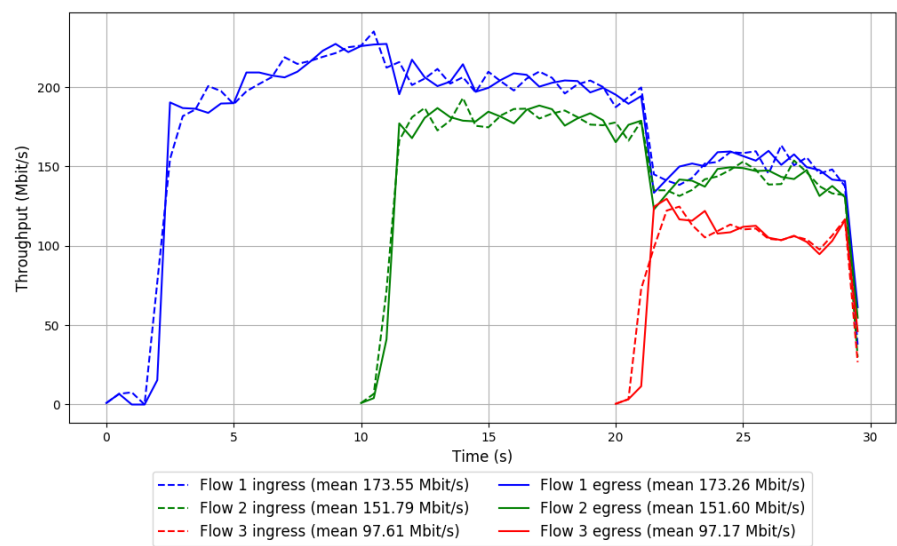
-- Flow 3:

Average throughput: 97.17 Mbit/s

95th percentile per-packet one-way delay: 165.794 ms

Loss rate: 0.43%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-01-26 12:16:23

End at: 2018-01-26 12:16:53

Below is generated by plot.py at 2018-01-26 16:00:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 298.57 Mbit/s

95th percentile per-packet one-way delay: 159.469 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 174.00 Mbit/s

95th percentile per-packet one-way delay: 146.796 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 133.64 Mbit/s

95th percentile per-packet one-way delay: 163.899 ms

Loss rate: 0.08%

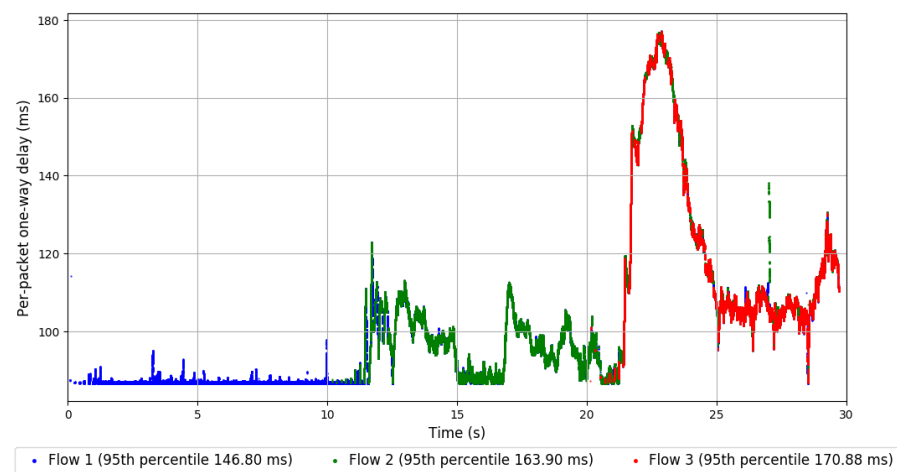
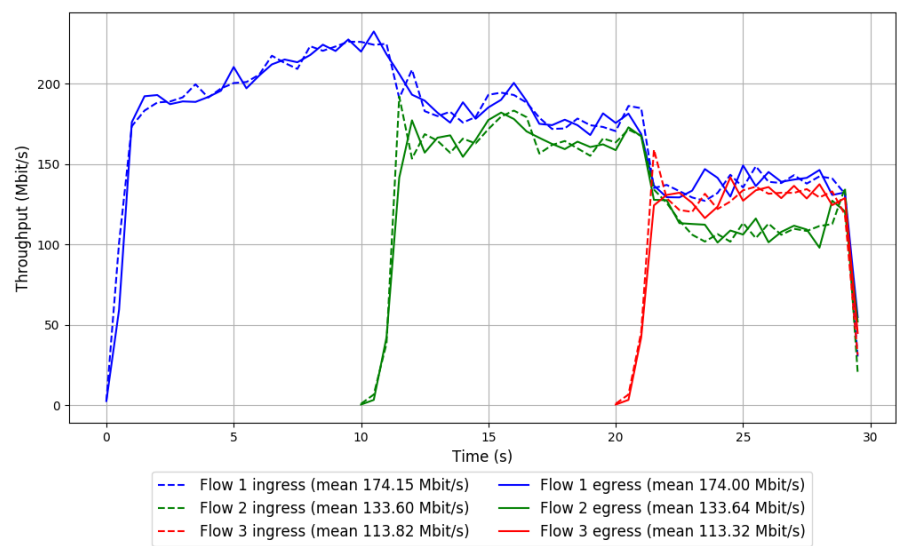
-- Flow 3:

Average throughput: 113.32 Mbit/s

95th percentile per-packet one-way delay: 170.876 ms

Loss rate: 0.36%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-01-26 12:31:08

End at: 2018-01-26 12:31:38

Below is generated by plot.py at 2018-01-26 16:01:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 309.61 Mbit/s

95th percentile per-packet one-way delay: 120.533 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 182.76 Mbit/s

95th percentile per-packet one-way delay: 116.524 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 151.90 Mbit/s

95th percentile per-packet one-way delay: 121.989 ms

Loss rate: 0.03%

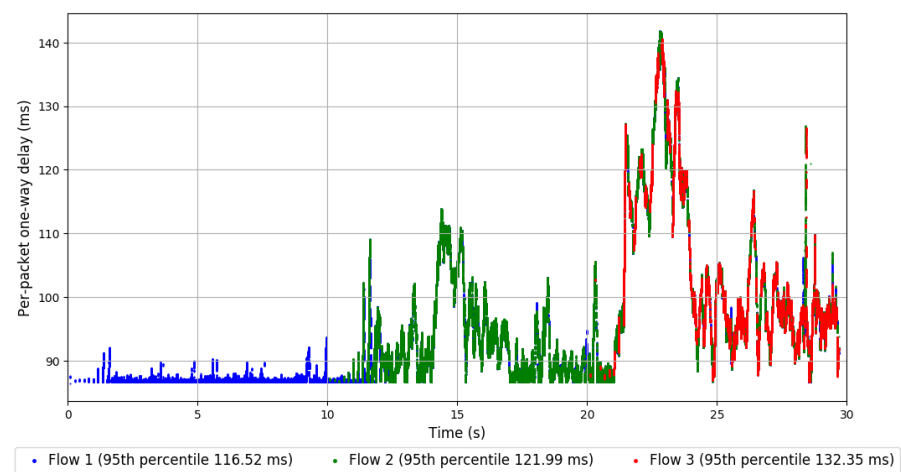
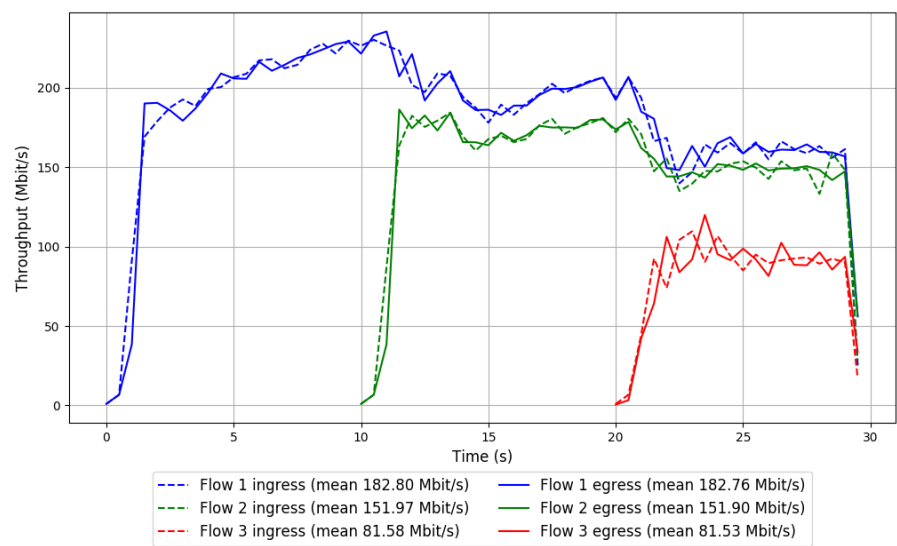
-- Flow 3:

Average throughput: 81.53 Mbit/s

95th percentile per-packet one-way delay: 132.348 ms

Loss rate: 0.01%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-01-26 12:45:46

End at: 2018-01-26 12:46:16

Below is generated by plot.py at 2018-01-26 16:01:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 291.73 Mbit/s

95th percentile per-packet one-way delay: 145.716 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 161.65 Mbit/s

95th percentile per-packet one-way delay: 137.273 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 147.94 Mbit/s

95th percentile per-packet one-way delay: 146.340 ms

Loss rate: 0.06%

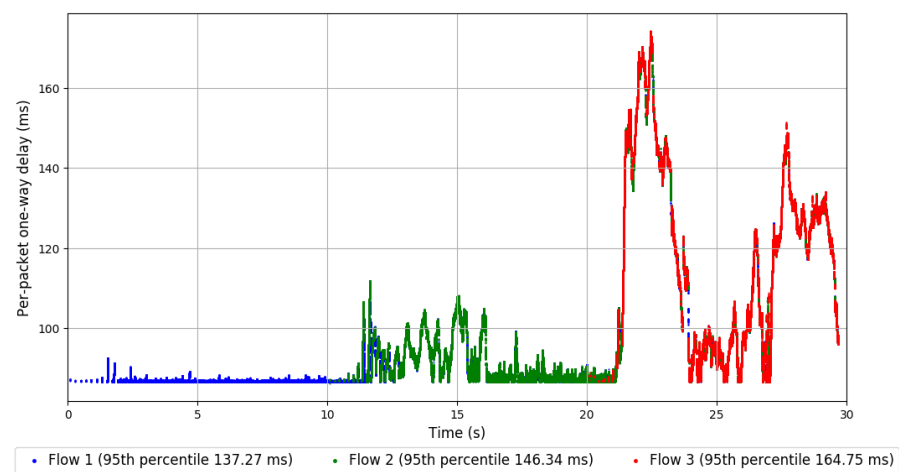
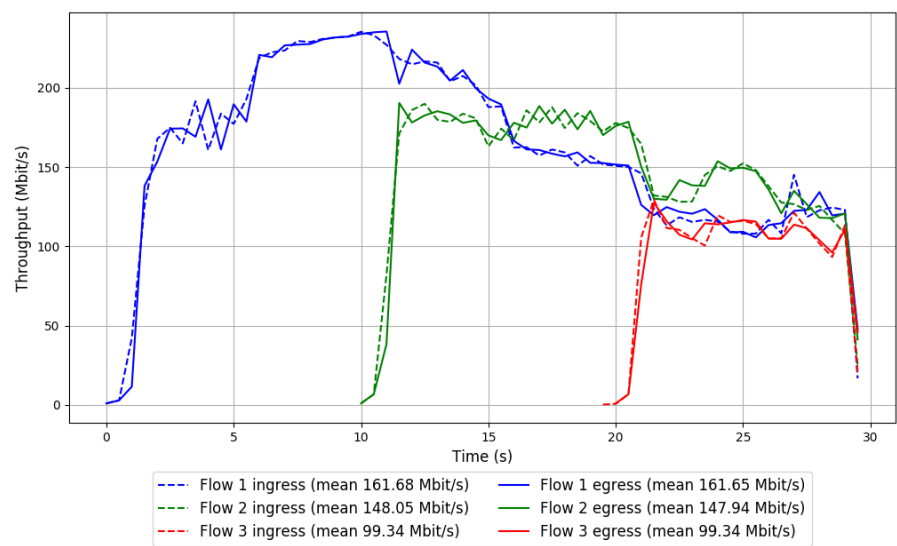
-- Flow 3:

Average throughput: 99.34 Mbit/s

95th percentile per-packet one-way delay: 164.752 ms

Loss rate: 0.06%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-01-26 13:00:12

End at: 2018-01-26 13:00:42

Below is generated by plot.py at 2018-01-26 16:01:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 294.93 Mbit/s

95th percentile per-packet one-way delay: 162.132 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 166.91 Mbit/s

95th percentile per-packet one-way delay: 149.533 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 134.64 Mbit/s

95th percentile per-packet one-way delay: 162.774 ms

Loss rate: 0.09%

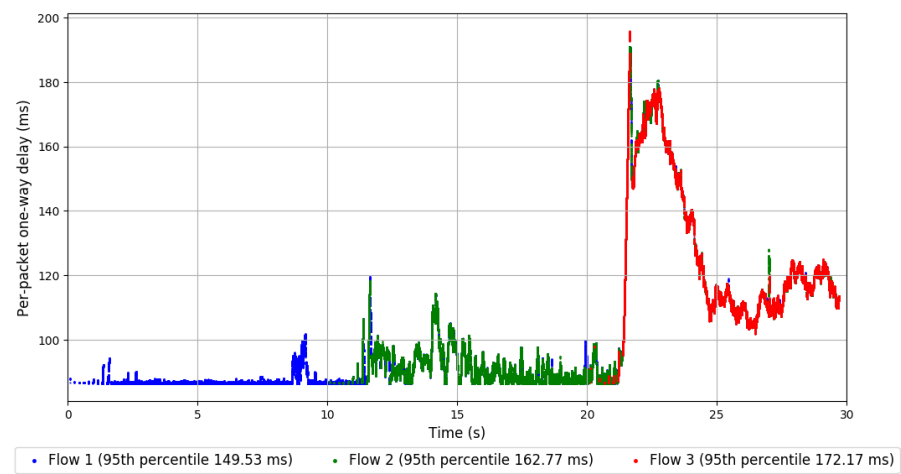
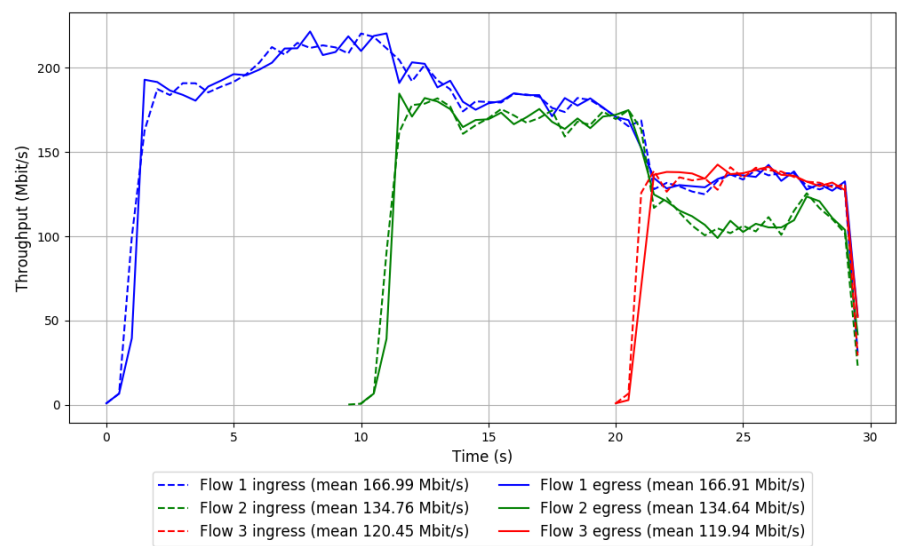
-- Flow 3:

Average throughput: 119.94 Mbit/s

95th percentile per-packet one-way delay: 172.168 ms

Loss rate: 0.42%

Run 6: Report of Indigo-1-32 — Data Link



Run 7: Statistics of Indigo-1-32

Start at: 2018-01-26 13:15:00

End at: 2018-01-26 13:15:30

Below is generated by plot.py at 2018-01-26 16:02:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 297.08 Mbit/s

95th percentile per-packet one-way delay: 123.800 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 175.72 Mbit/s

95th percentile per-packet one-way delay: 121.289 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 146.80 Mbit/s

95th percentile per-packet one-way delay: 124.294 ms

Loss rate: 0.53%

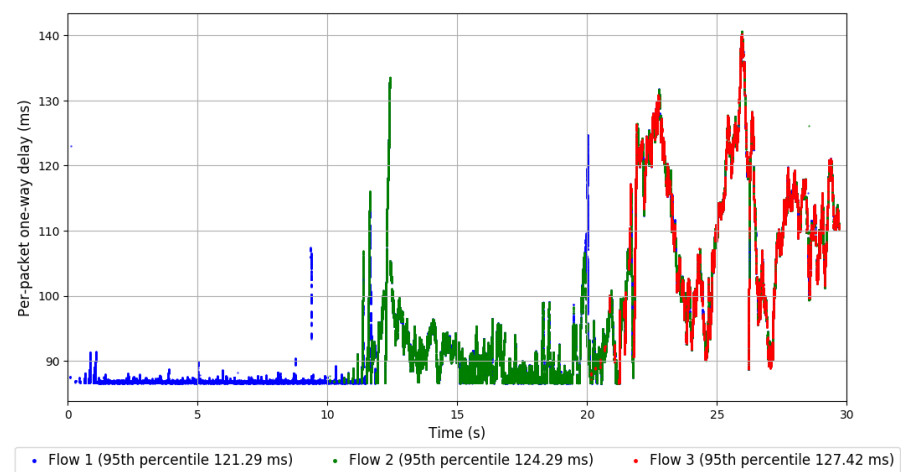
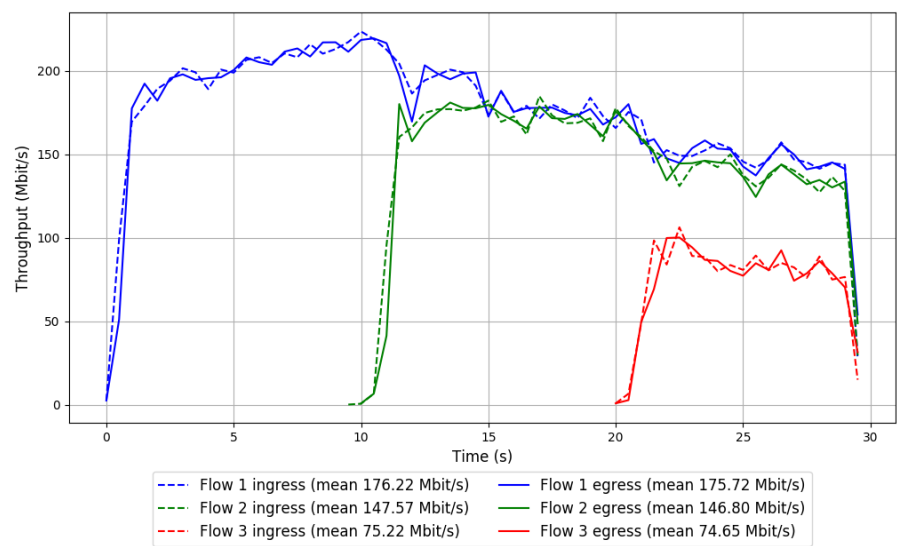
-- Flow 3:

Average throughput: 74.65 Mbit/s

95th percentile per-packet one-way delay: 127.419 ms

Loss rate: 0.75%

Run 7: Report of Indigo-1-32 — Data Link



Run 8: Statistics of Indigo-1-32

Start at: 2018-01-26 13:29:43

End at: 2018-01-26 13:30:13

Below is generated by plot.py at 2018-01-26 16:03:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 306.54 Mbit/s

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

Loss rate: 0.09%

-- Flow 1:

Average throughput: 176.52 Mbit/s

95th percentile per-packet one-way delay: 132.791 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 149.11 Mbit/s

95th percentile per-packet one-way delay: 138.047 ms

Loss rate: 0.06%

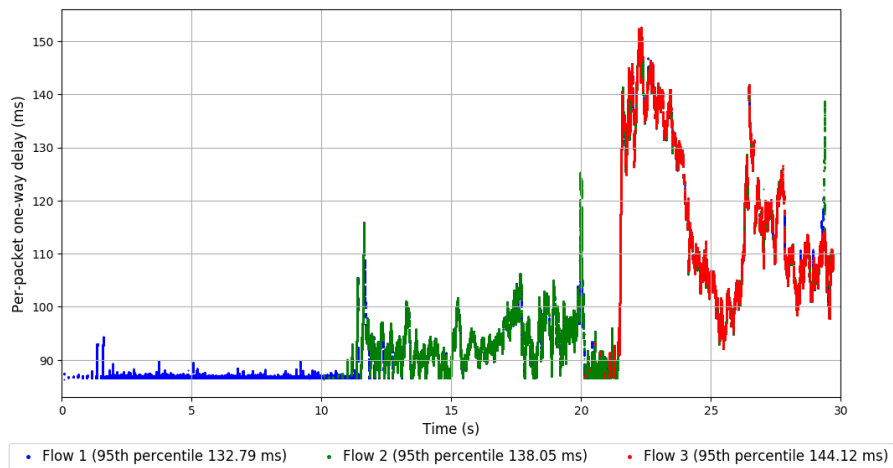
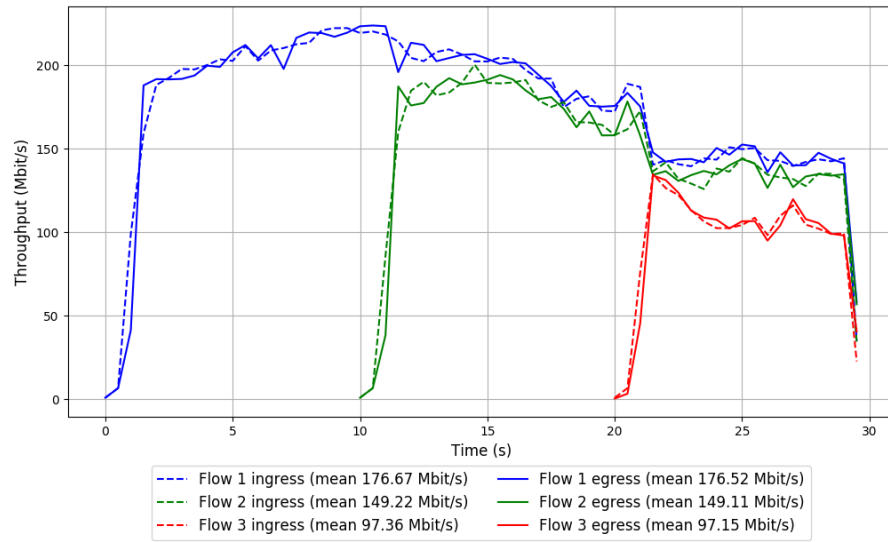
-- Flow 3:

Average throughput: 97.15 Mbit/s

95th percentile per-packet one-way delay: 144.123 ms

Loss rate: 0.20%

Run 8: Report of Indigo-1-32 — Data Link



Run 9: Statistics of Indigo-1-32

Start at: 2018-01-26 13:44:34

End at: 2018-01-26 13:45:04

Below is generated by plot.py at 2018-01-26 16:03:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 262.14 Mbit/s

95th percentile per-packet one-way delay: 135.458 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 155.07 Mbit/s

95th percentile per-packet one-way delay: 132.781 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 123.68 Mbit/s

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

Loss rate: 0.02%

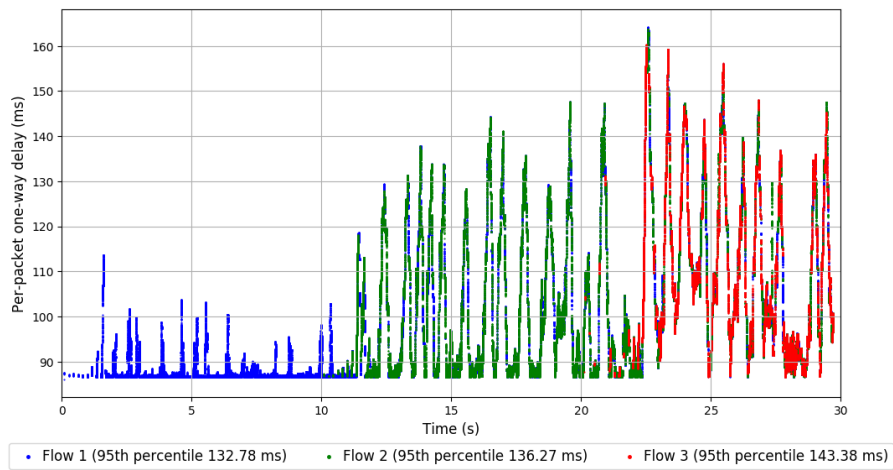
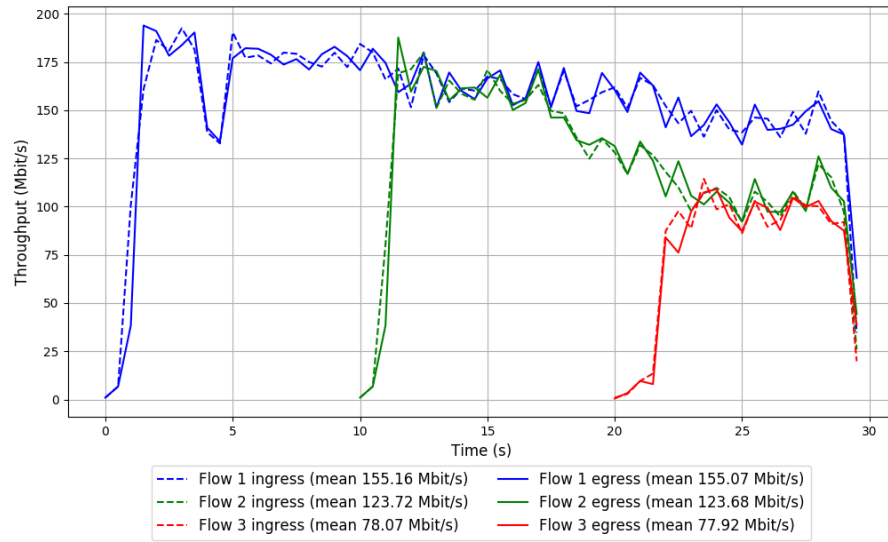
-- Flow 3:

Average throughput: 77.92 Mbit/s

95th percentile per-packet one-way delay: 143.379 ms

Loss rate: 0.21%

Run 9: Report of Indigo-1-32 — Data Link



Run 10: Statistics of Indigo-1-32

Start at: 2018-01-26 13:59:35

End at: 2018-01-26 14:00:05

Below is generated by plot.py at 2018-01-26 16:05:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 297.02 Mbit/s

95th percentile per-packet one-way delay: 182.779 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 160.78 Mbit/s

95th percentile per-packet one-way delay: 151.220 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 144.28 Mbit/s

95th percentile per-packet one-way delay: 179.679 ms

Loss rate: 0.08%

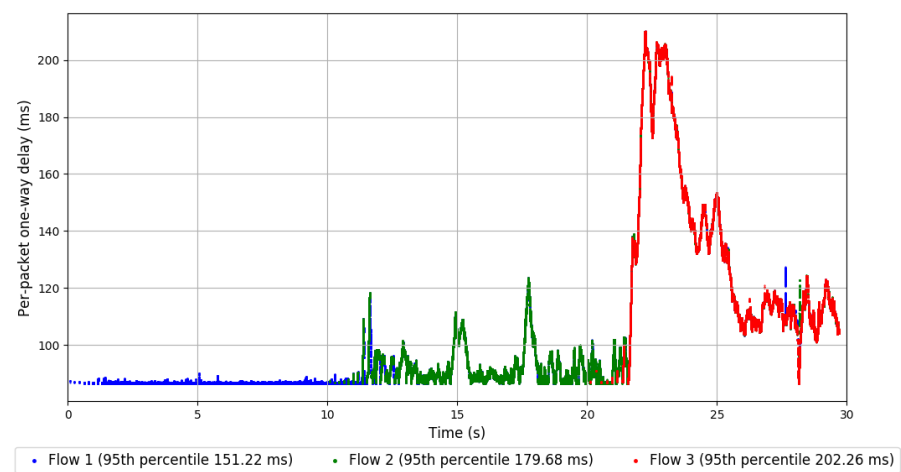
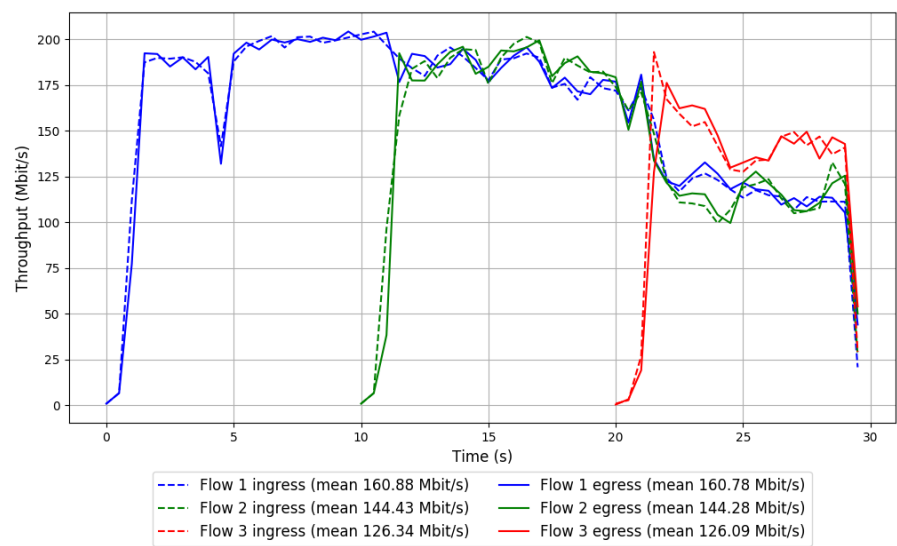
-- Flow 3:

Average throughput: 126.09 Mbit/s

95th percentile per-packet one-way delay: 202.264 ms

Loss rate: 0.18%

Run 10: Report of Indigo-1-32 — Data Link

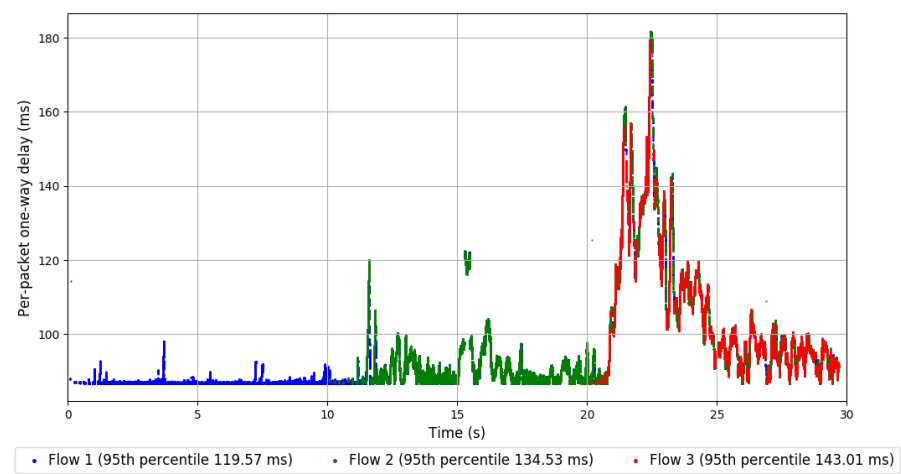
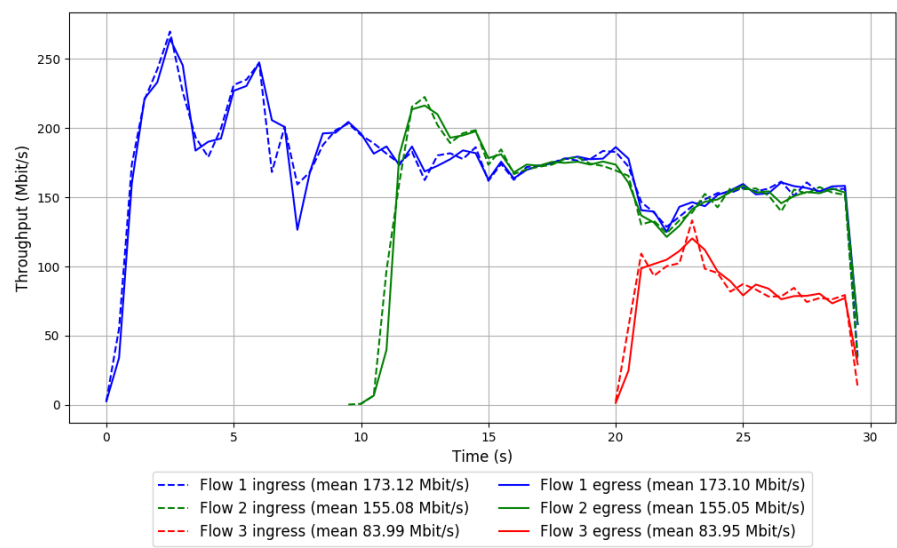


```
Run 1: Statistics of Indigo-1-128

Start at: 2018-01-26 11:39:54
End at: 2018-01-26 11:40:24

# Below is generated by plot.py at 2018-01-26 16:05:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 302.94 Mbit/s
95th percentile per-packet one-way delay: 132.004 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 173.10 Mbit/s
95th percentile per-packet one-way delay: 119.566 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 155.05 Mbit/s
95th percentile per-packet one-way delay: 134.533 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 83.95 Mbit/s
95th percentile per-packet one-way delay: 143.006 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo-1-128 — Data Link



Run 2: Statistics of Indigo-1-128

Start at: 2018-01-26 11:54:52

End at: 2018-01-26 11:55:22

Below is generated by plot.py at 2018-01-26 16:05:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 287.83 Mbit/s

95th percentile per-packet one-way delay: 124.662 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 168.05 Mbit/s

95th percentile per-packet one-way delay: 119.999 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 151.34 Mbit/s

95th percentile per-packet one-way delay: 125.280 ms

Loss rate: 0.00%

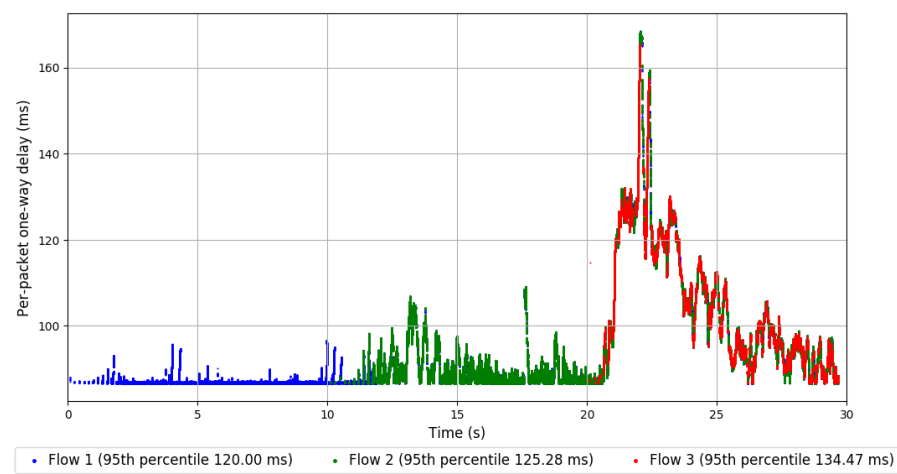
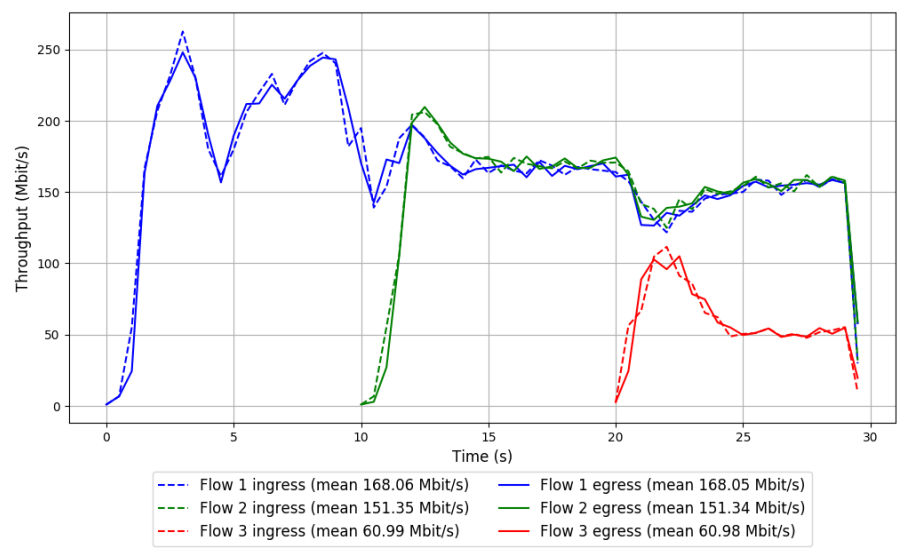
-- Flow 3:

Average throughput: 60.98 Mbit/s

95th percentile per-packet one-way delay: 134.466 ms

Loss rate: 0.00%

Run 2: Report of Indigo-1-128 — Data Link



Run 3: Statistics of Indigo-1-128

Start at: 2018-01-26 12:09:29

End at: 2018-01-26 12:09:59

Below is generated by plot.py at 2018-01-26 16:06:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 310.82 Mbit/s

95th percentile per-packet one-way delay: 141.847 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 170.93 Mbit/s

95th percentile per-packet one-way delay: 126.967 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 169.24 Mbit/s

95th percentile per-packet one-way delay: 143.640 ms

Loss rate: 0.08%

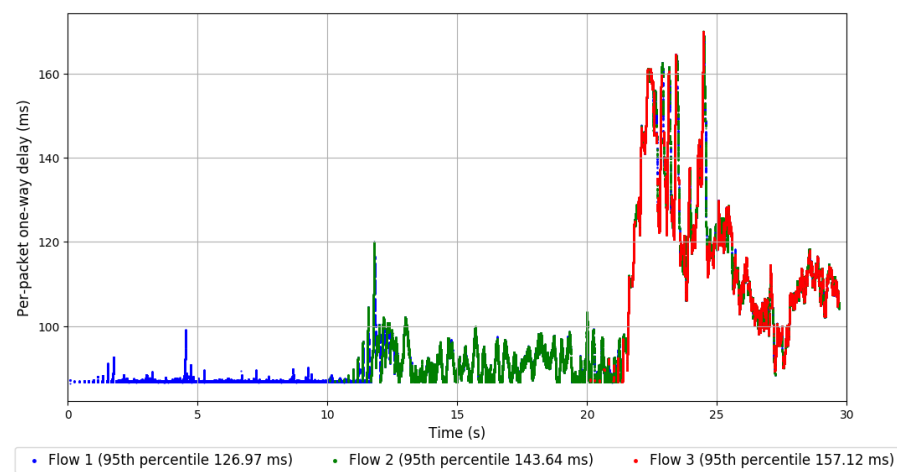
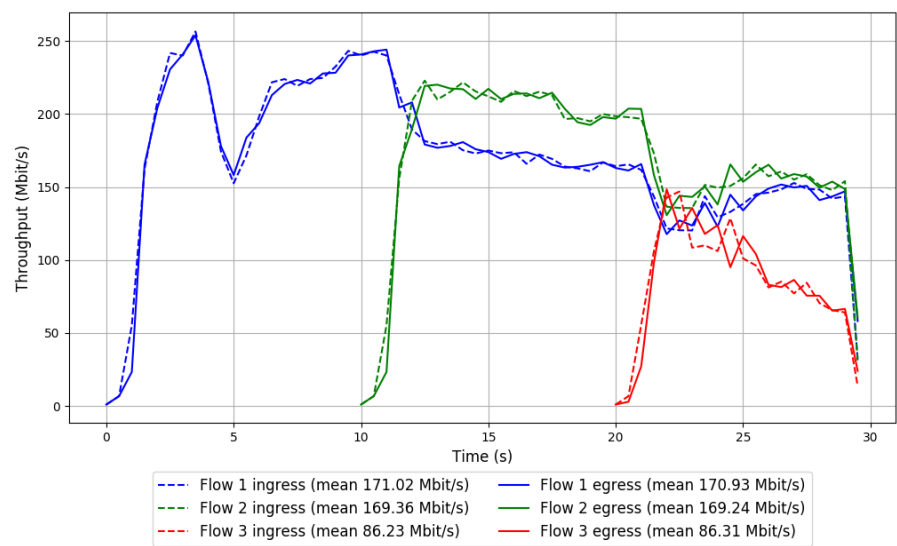
-- Flow 3:

Average throughput: 86.31 Mbit/s

95th percentile per-packet one-way delay: 157.122 ms

Loss rate: 0.08%

Run 3: Report of Indigo-1-128 — Data Link



Run 4: Statistics of Indigo-1-128

Start at: 2018-01-26 12:24:17

End at: 2018-01-26 12:24:47

Below is generated by plot.py at 2018-01-26 16:06:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 290.57 Mbit/s

95th percentile per-packet one-way delay: 147.871 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 161.20 Mbit/s

95th percentile per-packet one-way delay: 143.785 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 146.22 Mbit/s

95th percentile per-packet one-way delay: 149.743 ms

Loss rate: 0.09%

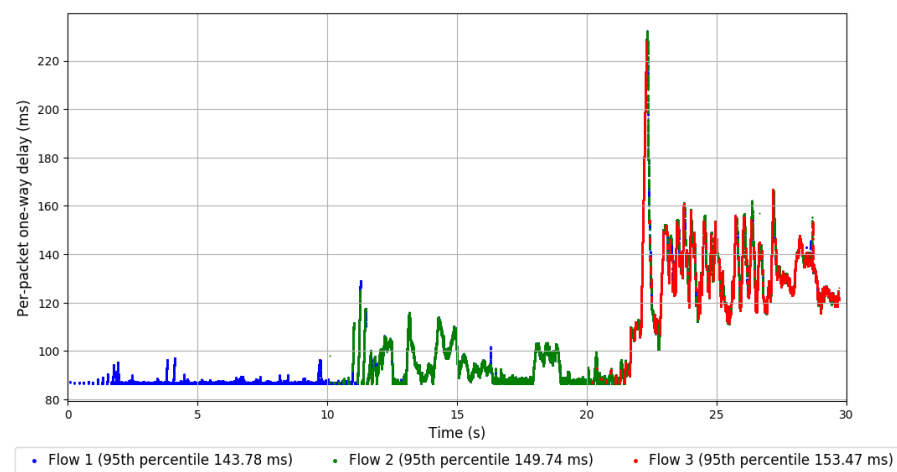
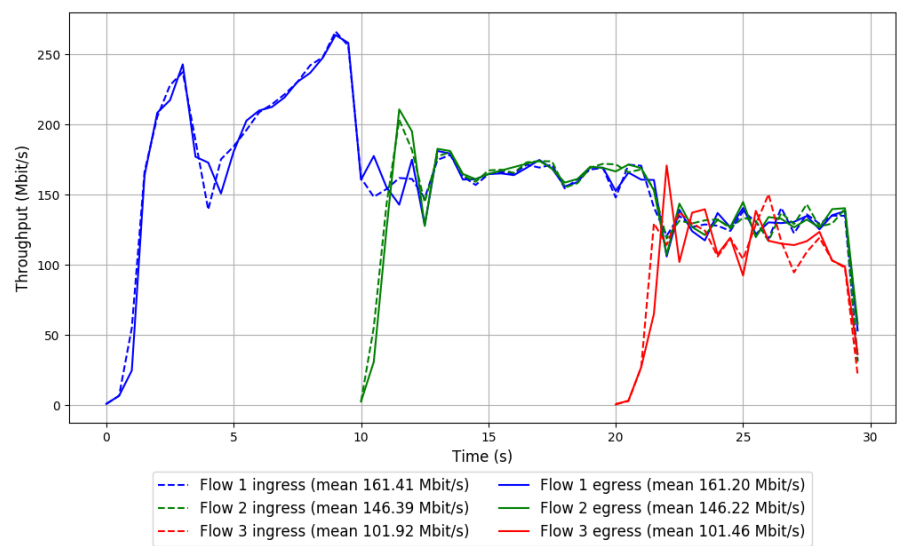
-- Flow 3:

Average throughput: 101.46 Mbit/s

95th percentile per-packet one-way delay: 153.472 ms

Loss rate: 0.41%

Run 4: Report of Indigo-1-128 — Data Link



Run 5: Statistics of Indigo-1-128

Start at: 2018-01-26 12:38:53

End at: 2018-01-26 12:39:23

Below is generated by plot.py at 2018-01-26 16:07:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 308.54 Mbit/s

95th percentile per-packet one-way delay: 129.924 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 173.00 Mbit/s

95th percentile per-packet one-way delay: 126.358 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 155.81 Mbit/s

95th percentile per-packet one-way delay: 130.155 ms

Loss rate: 0.04%

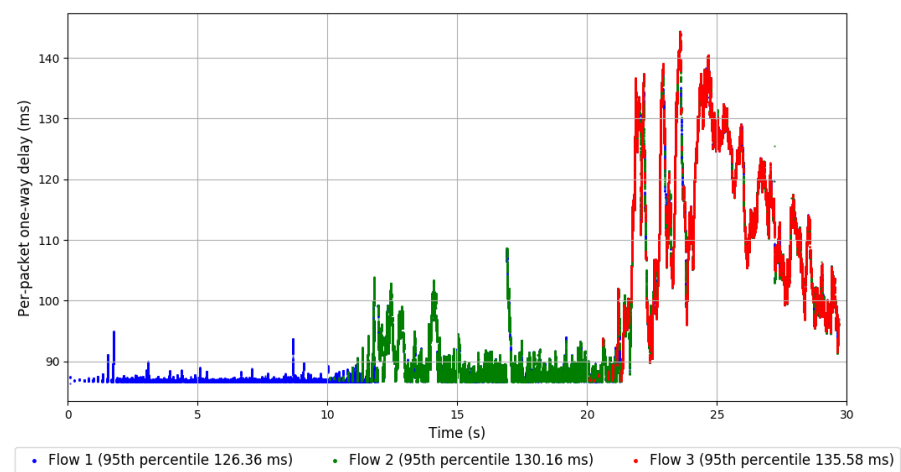
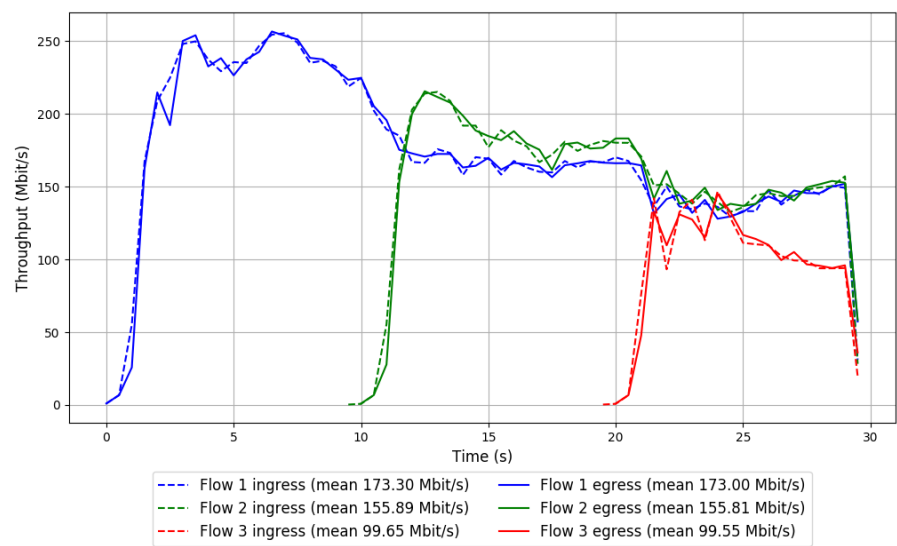
-- Flow 3:

Average throughput: 99.55 Mbit/s

95th percentile per-packet one-way delay: 135.581 ms

Loss rate: 0.11%

Run 5: Report of Indigo-1-128 — Data Link



Run 6: Statistics of Indigo-1-128

Start at: 2018-01-26 12:53:25

End at: 2018-01-26 12:53:55

Below is generated by plot.py at 2018-01-26 16:07:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 290.57 Mbit/s

95th percentile per-packet one-way delay: 138.770 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 170.02 Mbit/s

95th percentile per-packet one-way delay: 133.537 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 156.07 Mbit/s

95th percentile per-packet one-way delay: 139.015 ms

Loss rate: 0.15%

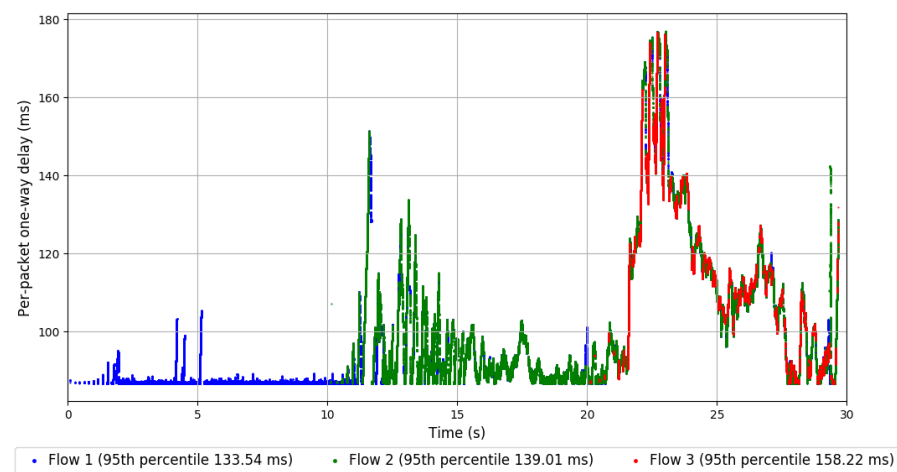
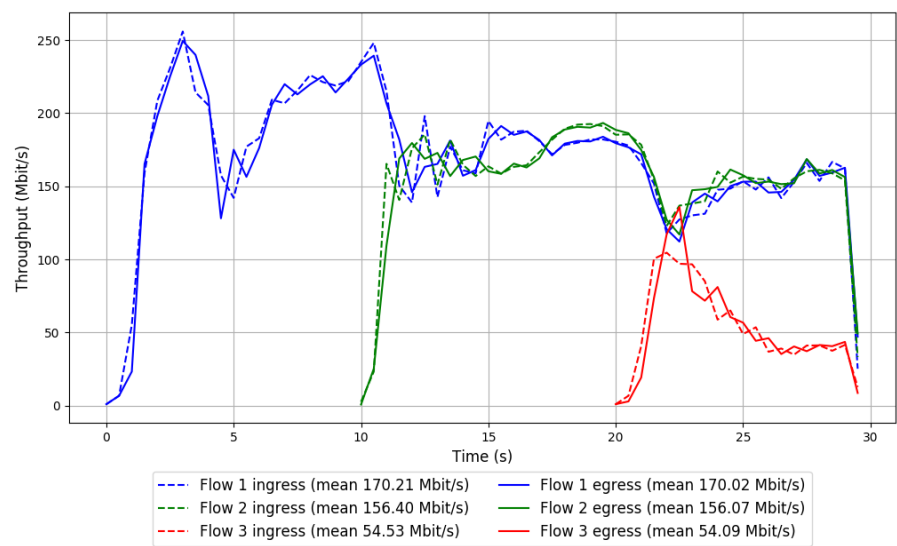
-- Flow 3:

Average throughput: 54.09 Mbit/s

95th percentile per-packet one-way delay: 158.218 ms

Loss rate: 0.75%

Run 6: Report of Indigo-1-128 — Data Link



Run 7: Statistics of Indigo-1-128

Start at: 2018-01-26 13:08:08

End at: 2018-01-26 13:08:38

Below is generated by plot.py at 2018-01-26 16:08:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 299.58 Mbit/s

95th percentile per-packet one-way delay: 162.595 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 174.59 Mbit/s

95th percentile per-packet one-way delay: 156.050 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 139.58 Mbit/s

95th percentile per-packet one-way delay: 164.016 ms

Loss rate: 0.16%

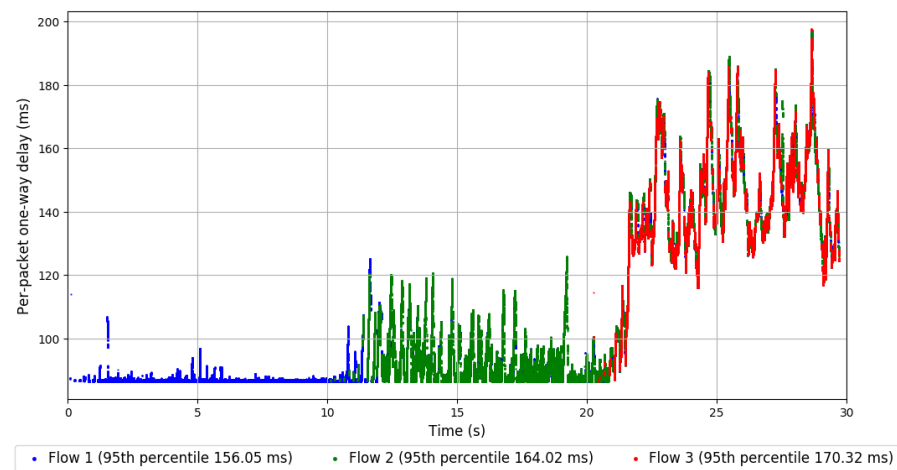
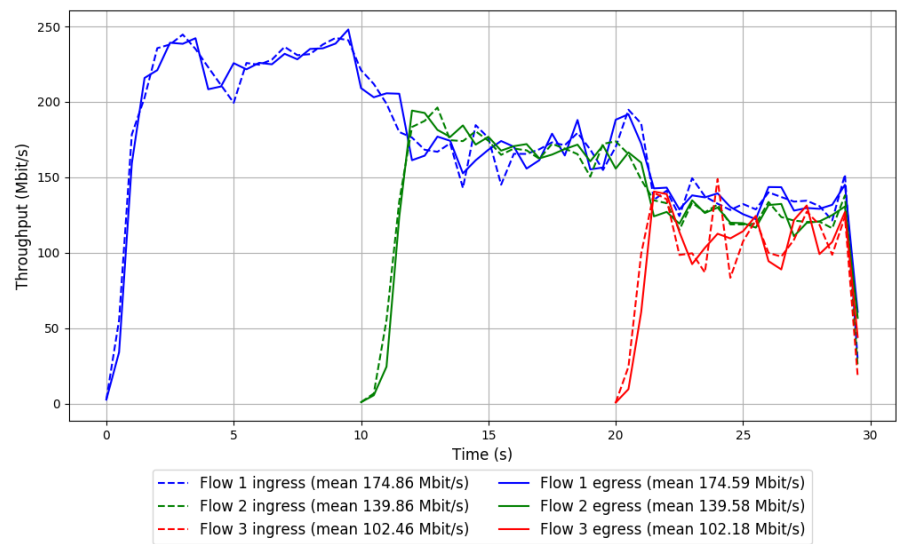
-- Flow 3:

Average throughput: 102.18 Mbit/s

95th percentile per-packet one-way delay: 170.321 ms

Loss rate: 0.22%

Run 7: Report of Indigo-1-128 — Data Link



Run 8: Statistics of Indigo-1-128

Start at: 2018-01-26 13:22:54

End at: 2018-01-26 13:23:24

Below is generated by plot.py at 2018-01-26 16:08:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 291.63 Mbit/s

95th percentile per-packet one-way delay: 124.257 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 179.55 Mbit/s

95th percentile per-packet one-way delay: 122.206 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 149.38 Mbit/s

95th percentile per-packet one-way delay: 125.090 ms

Loss rate: 0.12%

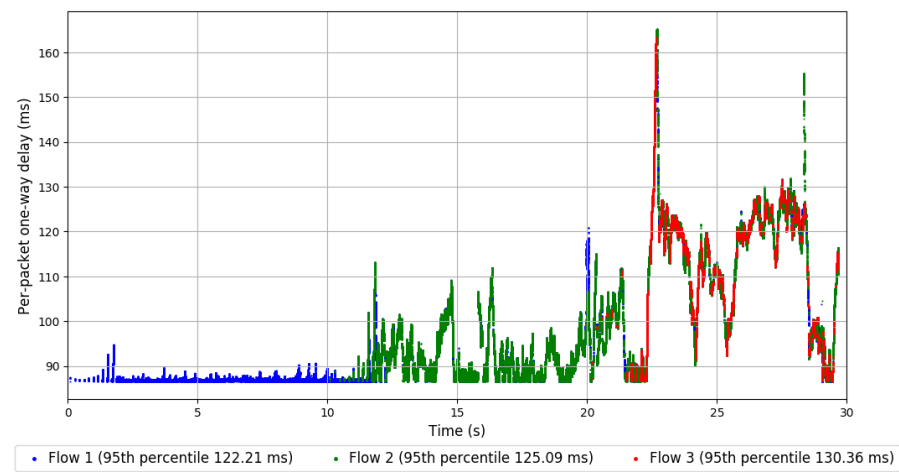
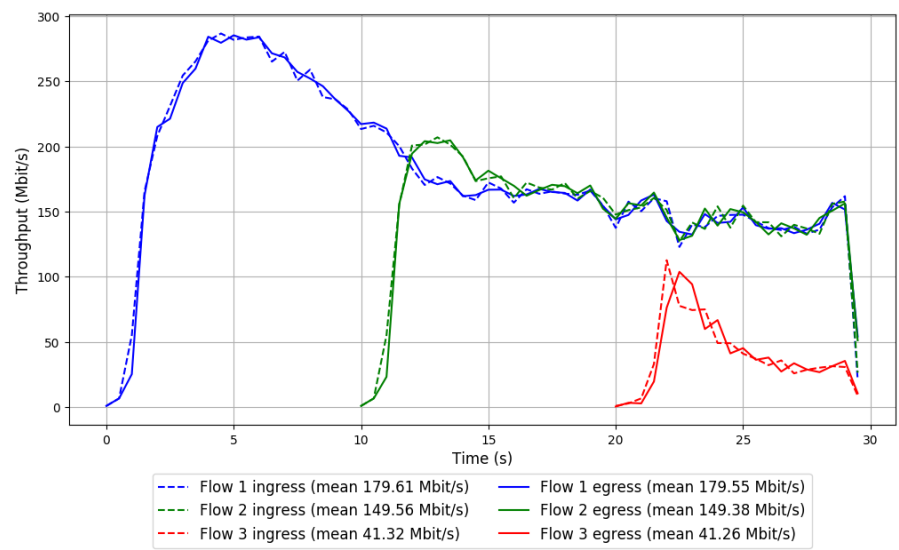
-- Flow 3:

Average throughput: 41.26 Mbit/s

95th percentile per-packet one-way delay: 130.364 ms

Loss rate: 0.17%

Run 8: Report of Indigo-1-128 — Data Link



Run 9: Statistics of Indigo-1-128

Start at: 2018-01-26 13:37:44

End at: 2018-01-26 13:38:14

Below is generated by plot.py at 2018-01-26 16:08:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 296.54 Mbit/s

95th percentile per-packet one-way delay: 154.353 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 170.71 Mbit/s

95th percentile per-packet one-way delay: 151.326 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 149.57 Mbit/s

95th percentile per-packet one-way delay: 154.620 ms

Loss rate: 0.21%

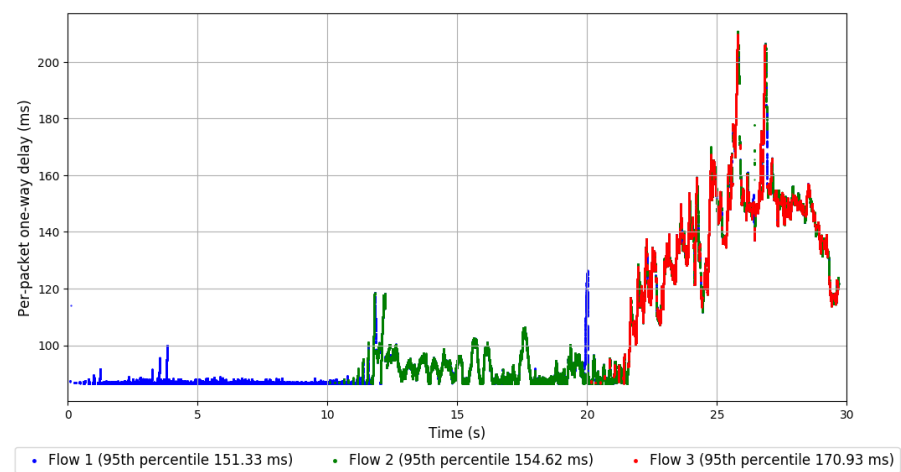
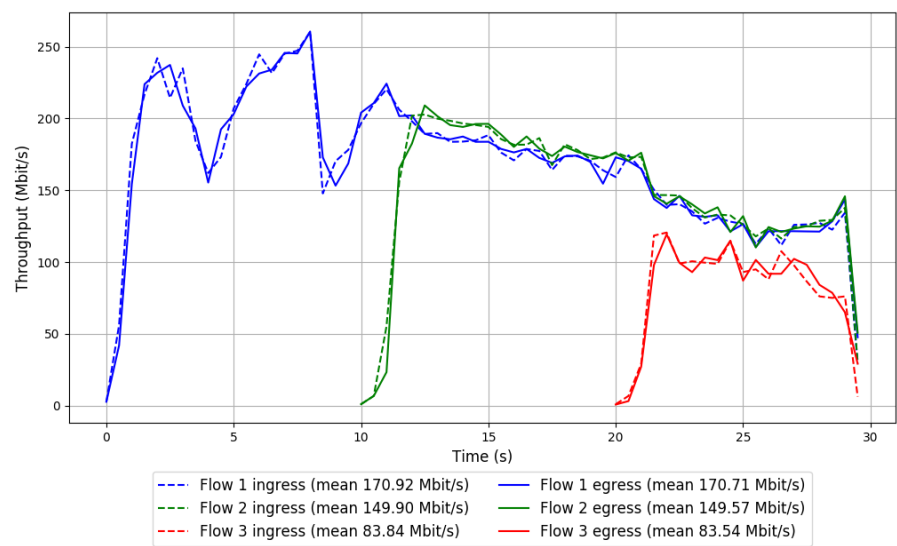
-- Flow 3:

Average throughput: 83.54 Mbit/s

95th percentile per-packet one-way delay: 170.932 ms

Loss rate: 0.00%

Run 9: Report of Indigo-1-128 — Data Link



Run 10: Statistics of Indigo-1-128

Start at: 2018-01-26 13:52:34

End at: 2018-01-26 13:53:04

Below is generated by plot.py at 2018-01-26 16:08:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 307.15 Mbit/s

95th percentile per-packet one-way delay: 141.876 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 171.63 Mbit/s

95th percentile per-packet one-way delay: 139.113 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 148.78 Mbit/s

95th percentile per-packet one-way delay: 142.515 ms

Loss rate: 0.18%

-- Flow 3:

Average throughput: 114.70 Mbit/s

95th percentile per-packet one-way delay: 145.669 ms

Loss rate: 0.25%

Run 10: Report of Indigo-1-128 — Data Link

