

Pantheon Report

Generated at 2018-02-01 09:52:01 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

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

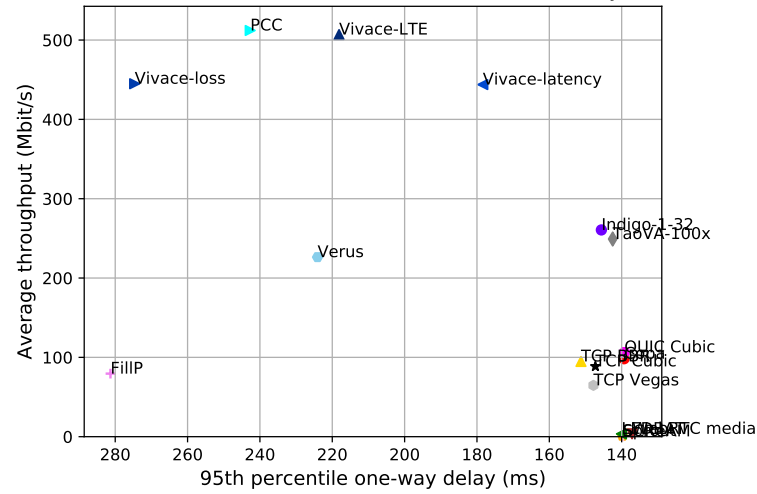
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

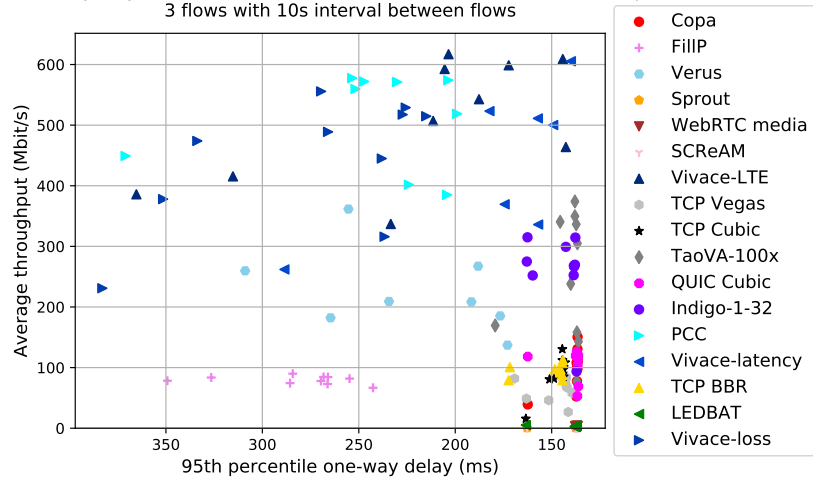
Git summary:

```
branch: master @ 70217998b3c9a7166a95460a70c0854d1326e100
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/fillp @ fb9c9ab842e5614ad52911a76fb9bd1c1b0dca86
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



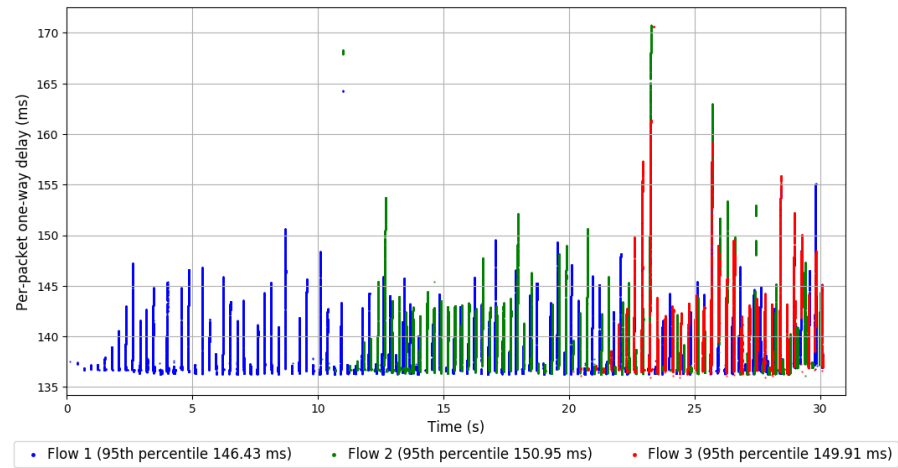
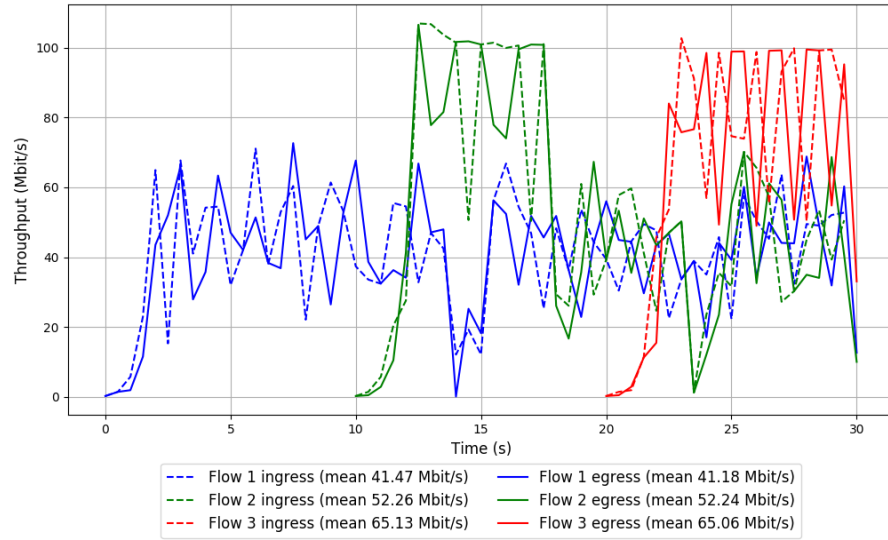
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	9	41.70	53.50	53.87	151.06	149.77	154.37	0.88	0.09	0.14
TCP Cubic	10	37.67	51.88	50.13	145.38	147.06	148.97	1.00	0.13	0.15
LEDBAT	10	2.12	1.51	1.20	142.69	139.98	139.87	0.43	0.68	0.00
PCC	9	396.34	144.64	59.71	239.02	240.29	225.83	2.62	1.84	2.57
QUIC Cubic	10	54.76	57.69	41.80	136.72	141.53	135.90	0.00	0.01	0.00
SCReAM	10	0.25	0.22	0.21	676.30	136.76	136.76	0.00	0.00	0.00
WebRTC media	10	2.01	1.23	0.39	136.90	136.68	137.10	0.00	0.00	0.10
Sprout	10	0.41	0.42	0.47	139.85	139.57	139.70	0.00	0.00	0.03
TaoVA-100x	10	135.58	141.27	78.03	143.58	144.15	142.61	0.05	0.02	0.01
TCP Vegas	10	26.52	40.06	34.94	145.37	146.21	147.44	0.16	0.47	0.43
Verus	8	130.30	115.11	56.97	198.88	232.53	225.40	0.67	1.46	1.06
Copa	10	66.04	30.03	36.90	139.29	139.29	141.87	0.00	9.20	0.01
FillP	10	25.64	39.88	82.68	272.52	284.87	282.90	9.35	8.94	8.72
Indigo-1-32	10	134.12	133.81	119.47	147.05	145.11	146.30	0.13	0.01	0.41
Vivace-latency	7	254.44	217.41	136.29	719.68	213.49	174.22	0.56	1.47	0.00
Vivace-loss	10	251.67	222.67	139.25	263.39	249.35	266.32	2.66	2.92	8.30
Vivace-LTE	10	305.31	231.72	145.44	201.36	222.15	245.51	0.93	0.91	1.17

```
Run 1: Statistics of TCP BBR

Start at: 2018-02-01 04:34:57
End at: 2018-02-01 04:35:27

# Below is generated by plot.py at 2018-02-01 08:41:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.37 Mbit/s
95th percentile per-packet one-way delay: 148.334 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 41.18 Mbit/s
95th percentile per-packet one-way delay: 146.434 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 52.24 Mbit/s
95th percentile per-packet one-way delay: 150.951 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 65.06 Mbit/s
95th percentile per-packet one-way delay: 149.906 ms
Loss rate: 0.10%
```


Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-01 04:54:13

End at: 2018-02-01 04:54:43

Below is generated by plot.py at 2018-02-01 08:41:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 107.82 Mbit/s

95th percentile per-packet one-way delay: 144.660 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 42.67 Mbit/s

95th percentile per-packet one-way delay: 146.155 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 80.36 Mbit/s

95th percentile per-packet one-way delay: 143.525 ms

Loss rate: 0.00%

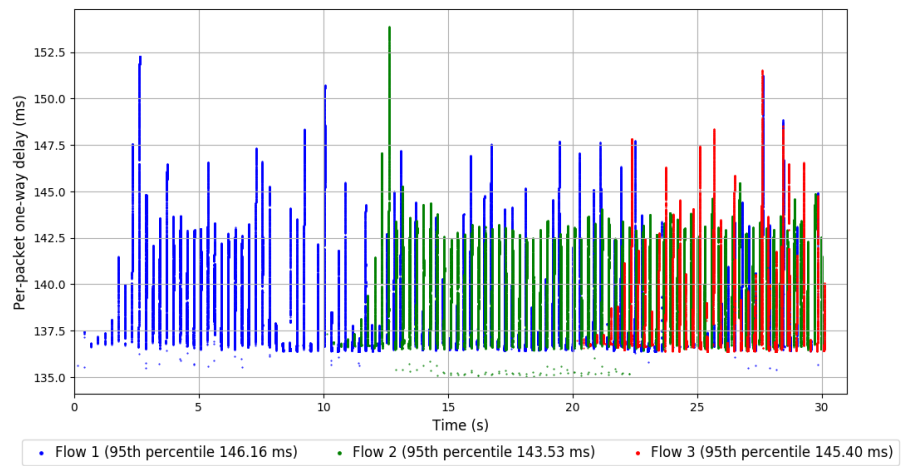
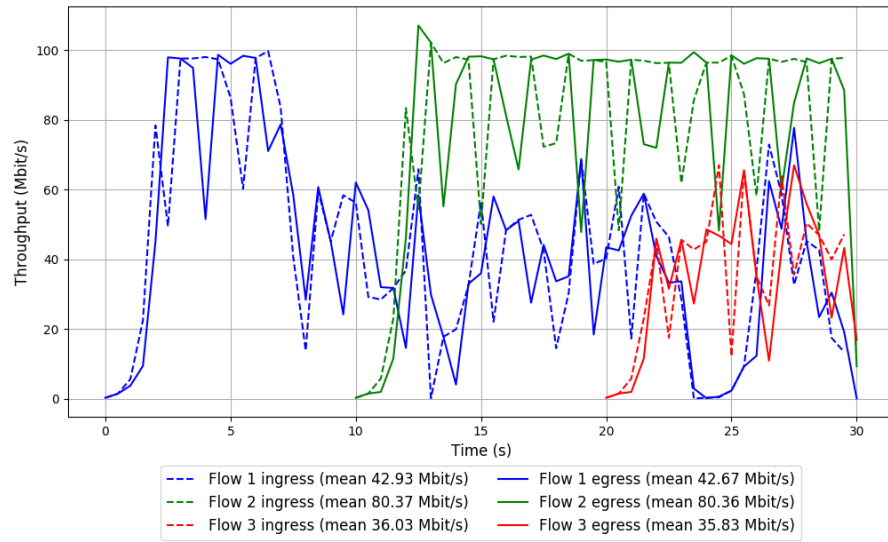
-- Flow 3:

Average throughput: 35.83 Mbit/s

95th percentile per-packet one-way delay: 145.395 ms

Loss rate: 0.55%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-01 05:12:51

End at: 2018-02-01 05:13:21

Below is generated by plot.py at 2018-02-01 08:41:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.66 Mbit/s

95th percentile per-packet one-way delay: 171.658 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 41.29 Mbit/s

95th percentile per-packet one-way delay: 169.949 ms

Loss rate: 1.73%

-- Flow 2:

Average throughput: 55.14 Mbit/s

95th percentile per-packet one-way delay: 158.388 ms

Loss rate: 0.06%

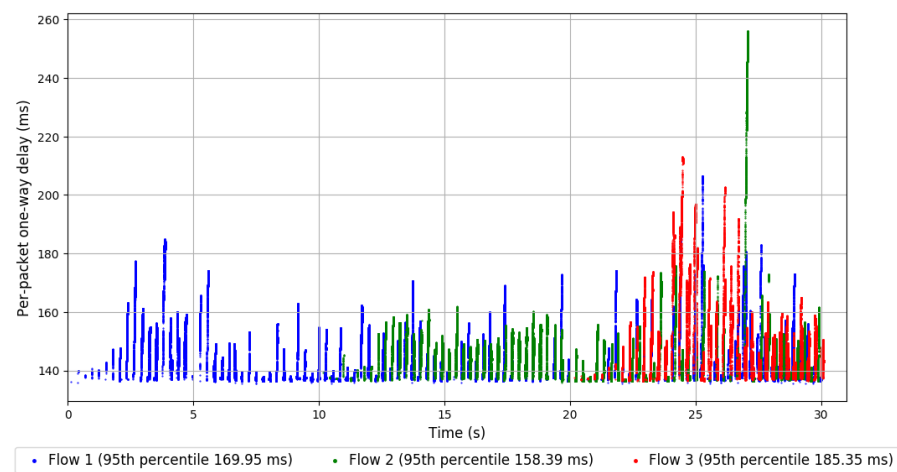
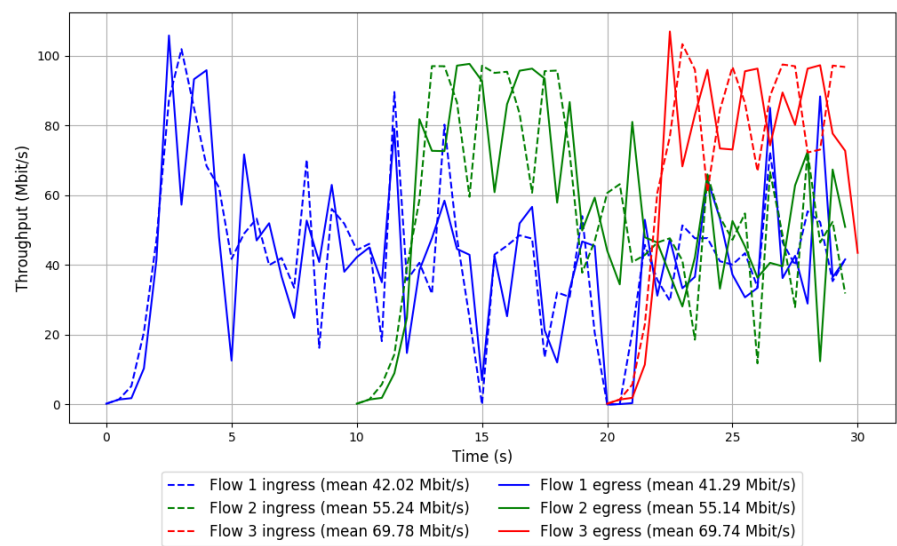
-- Flow 3:

Average throughput: 69.74 Mbit/s

95th percentile per-packet one-way delay: 185.350 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-01 05:31:15

End at: 2018-02-01 05:31:45

Below is generated by plot.py at 2018-02-01 08:41:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.12 Mbit/s

95th percentile per-packet one-way delay: 144.409 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 44.25 Mbit/s

95th percentile per-packet one-way delay: 144.941 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 34.55 Mbit/s

95th percentile per-packet one-way delay: 144.044 ms

Loss rate: 0.00%

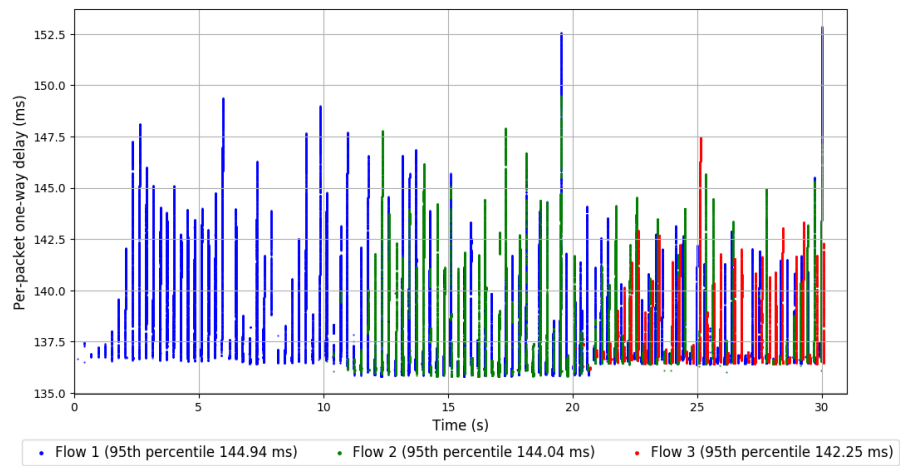
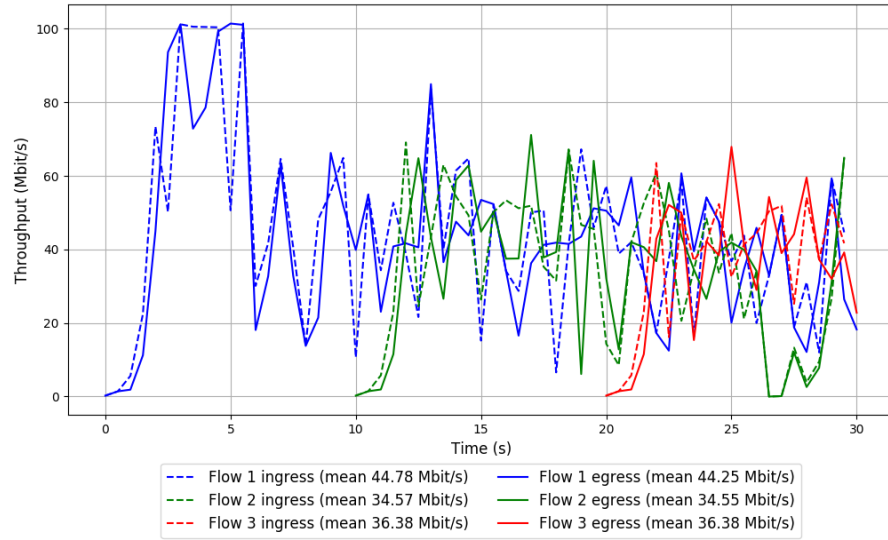
-- Flow 3:

Average throughput: 36.38 Mbit/s

95th percentile per-packet one-way delay: 142.255 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link

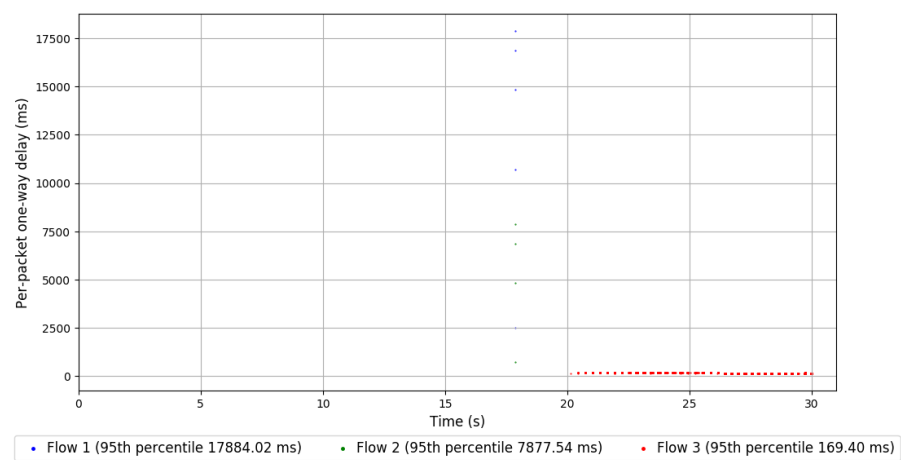
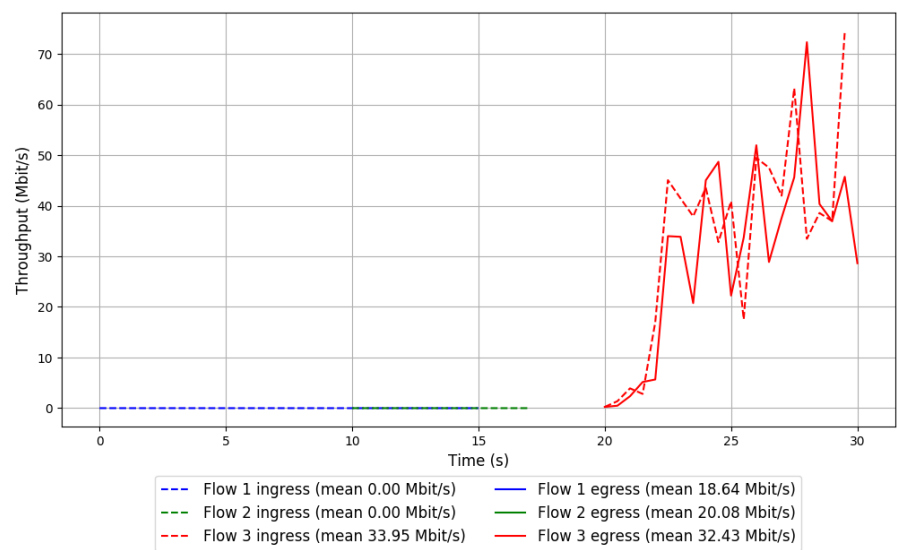


Run 5: Statistics of TCP BBR

Start at: 2018-02-01 05:50:49

End at: 2018-02-01 05:51:19

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-01 06:10:07

End at: 2018-02-01 06:10:37

Below is generated by plot.py at 2018-02-01 08:41:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.09 Mbit/s

95th percentile per-packet one-way delay: 172.302 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 34.51 Mbit/s

95th percentile per-packet one-way delay: 170.692 ms

Loss rate: 2.16%

-- Flow 2:

Average throughput: 51.68 Mbit/s

95th percentile per-packet one-way delay: 172.513 ms

Loss rate: 0.23%

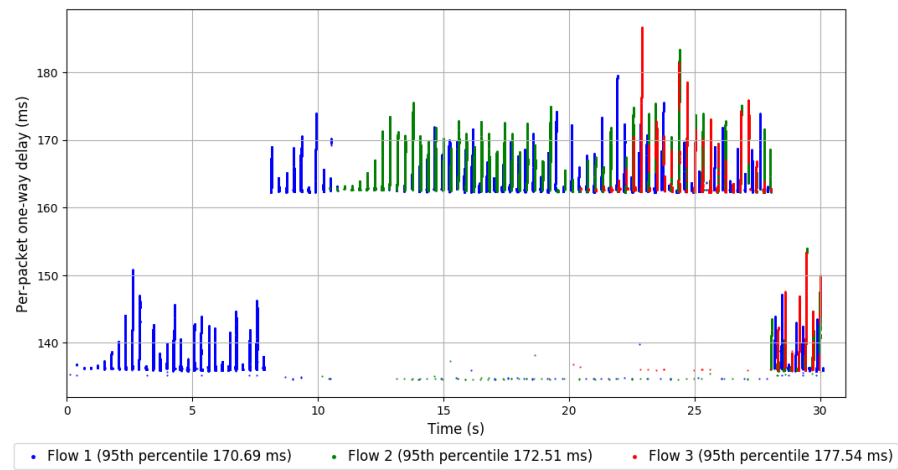
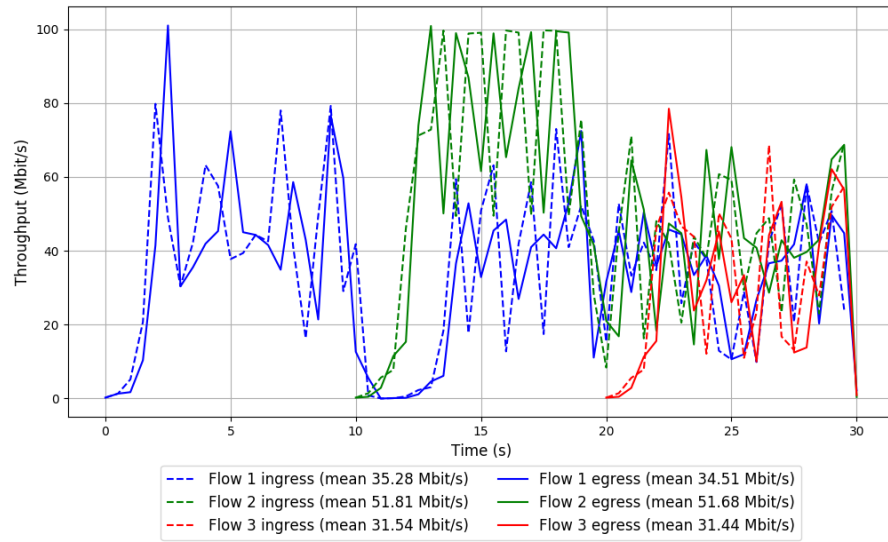
-- Flow 3:

Average throughput: 31.44 Mbit/s

95th percentile per-packet one-way delay: 177.543 ms

Loss rate: 0.17%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-01 06:29:28

End at: 2018-02-01 06:29:58

Below is generated by plot.py at 2018-02-01 08:41:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.00 Mbit/s

95th percentile per-packet one-way delay: 145.657 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 42.45 Mbit/s

95th percentile per-packet one-way delay: 145.758 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.87 Mbit/s

95th percentile per-packet one-way delay: 144.845 ms

Loss rate: 0.00%

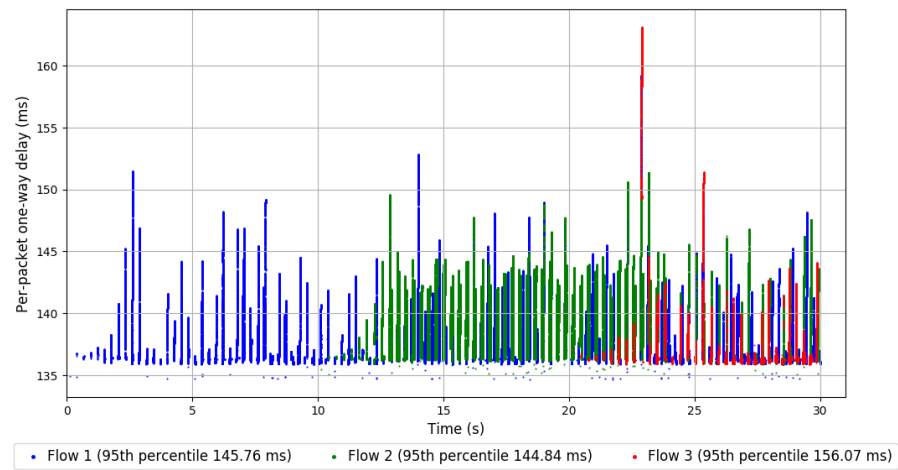
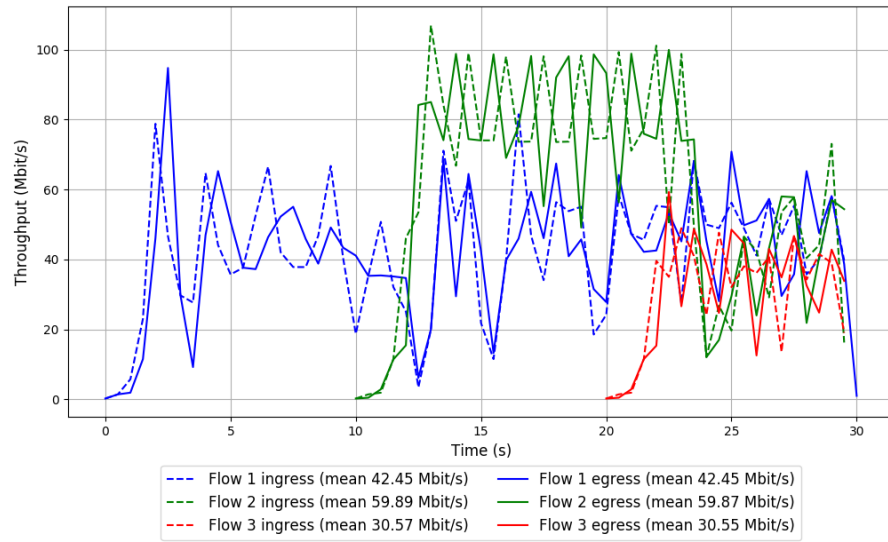
-- Flow 3:

Average throughput: 30.55 Mbit/s

95th percentile per-packet one-way delay: 156.068 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-01 06:48:08

End at: 2018-02-01 06:48:38

Below is generated by plot.py at 2018-02-01 08:41:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 112.46 Mbit/s

95th percentile per-packet one-way delay: 144.160 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 47.45 Mbit/s

95th percentile per-packet one-way delay: 144.145 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.21 Mbit/s

95th percentile per-packet one-way delay: 143.890 ms

Loss rate: 0.16%

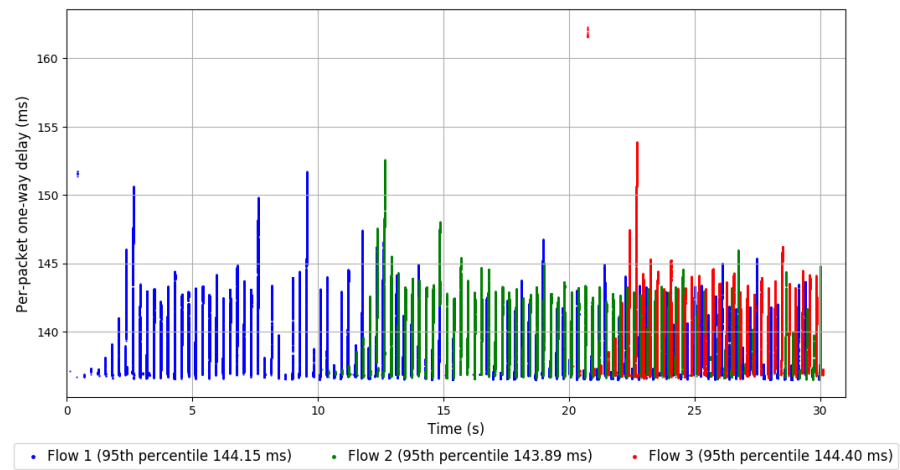
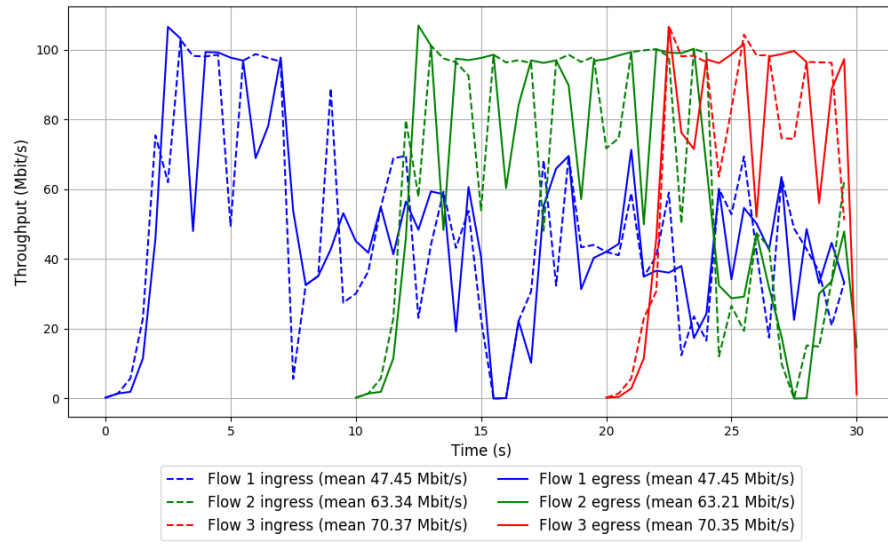
-- Flow 3:

Average throughput: 70.35 Mbit/s

95th percentile per-packet one-way delay: 144.403 ms

Loss rate: 0.05%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-01 07:07:25

End at: 2018-02-01 07:07:55

Below is generated by plot.py at 2018-02-01 08:41:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.03 Mbit/s

95th percentile per-packet one-way delay: 144.581 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 35.45 Mbit/s

95th percentile per-packet one-way delay: 145.547 ms

Loss rate: 1.60%

-- Flow 2:

Average throughput: 43.27 Mbit/s

95th percentile per-packet one-way delay: 144.257 ms

Loss rate: 0.34%

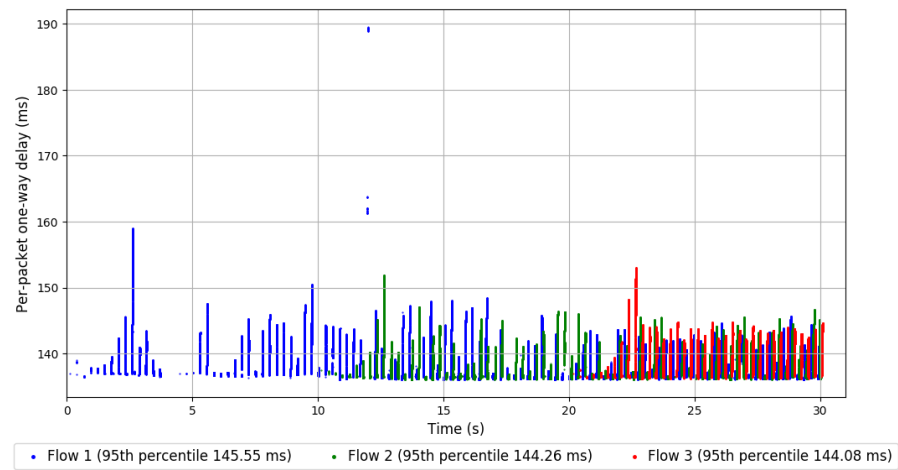
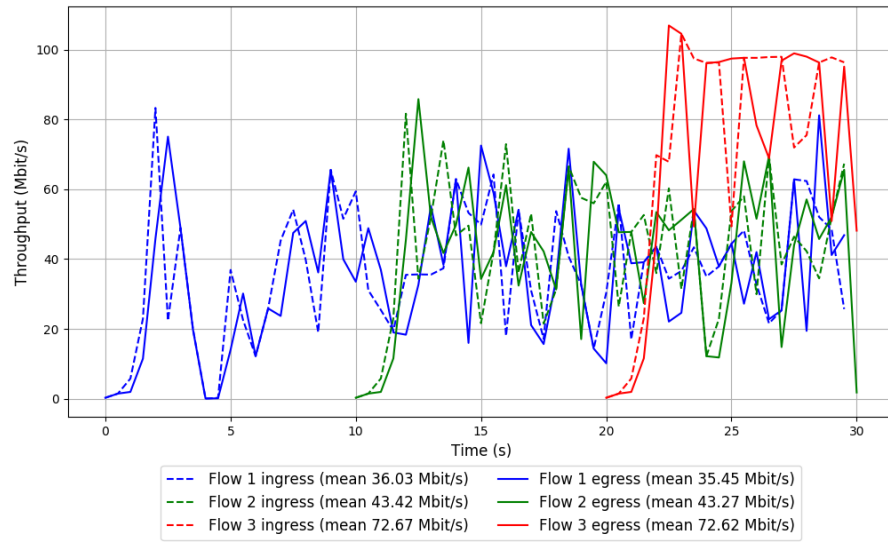
-- Flow 3:

Average throughput: 72.62 Mbit/s

95th percentile per-packet one-way delay: 144.076 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-01 07:27:00

End at: 2018-02-01 07:27:30

Below is generated by plot.py at 2018-02-01 08:42:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.25 Mbit/s

95th percentile per-packet one-way delay: 145.463 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 46.03 Mbit/s

95th percentile per-packet one-way delay: 145.898 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 41.19 Mbit/s

95th percentile per-packet one-way delay: 145.546 ms

Loss rate: 0.00%

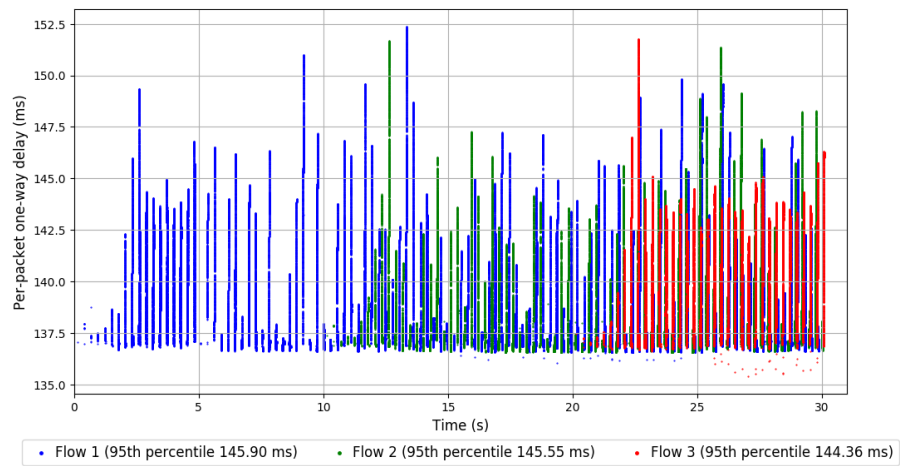
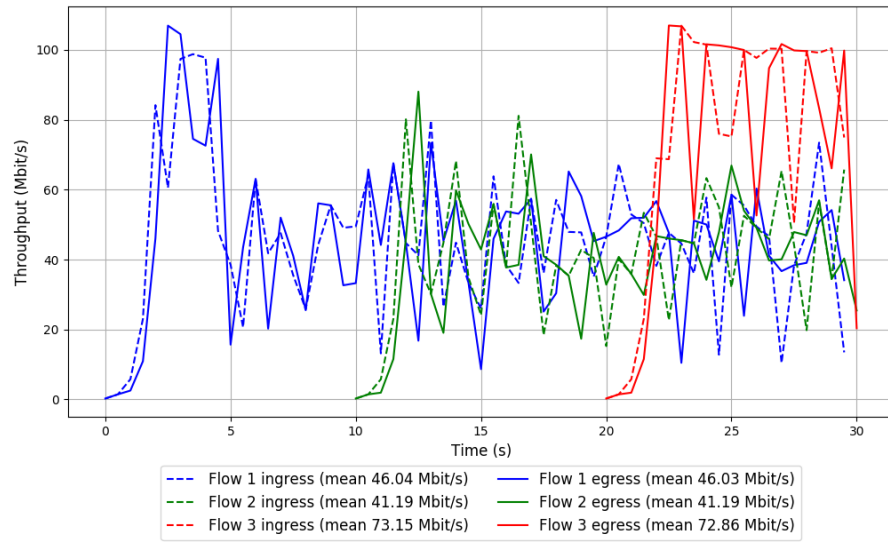
-- Flow 3:

Average throughput: 72.86 Mbit/s

95th percentile per-packet one-way delay: 144.358 ms

Loss rate: 0.35%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-01 04:28:00

End at: 2018-02-01 04:28:30

Below is generated by plot.py at 2018-02-01 08:42:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.26 Mbit/s

95th percentile per-packet one-way delay: 145.075 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 37.65 Mbit/s

95th percentile per-packet one-way delay: 143.940 ms

Loss rate: 1.37%

-- Flow 2:

Average throughput: 38.32 Mbit/s

95th percentile per-packet one-way delay: 144.274 ms

Loss rate: 0.00%

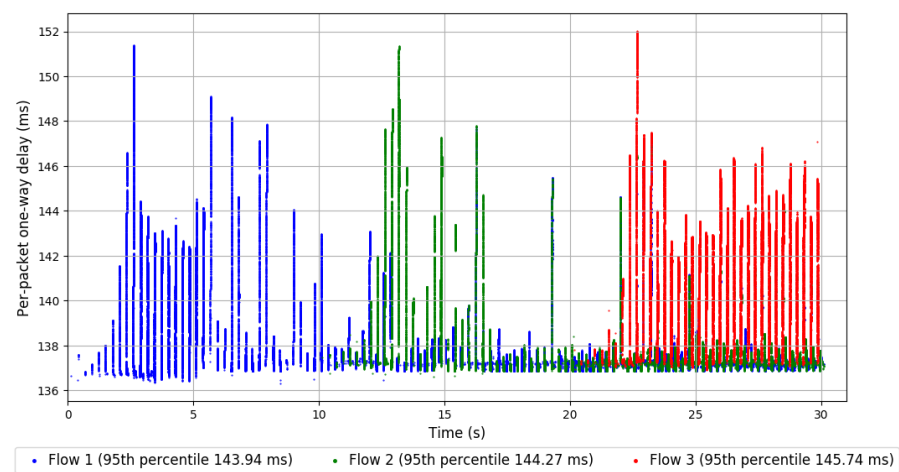
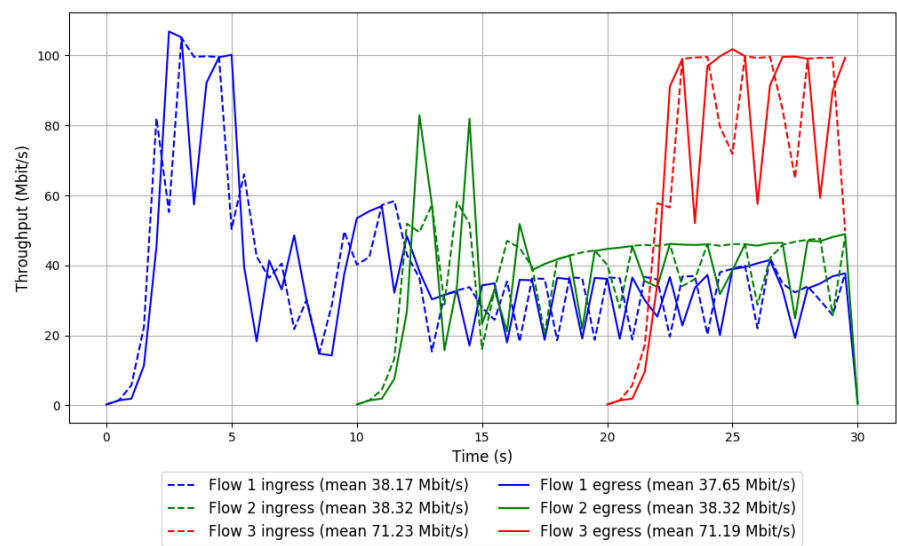
-- Flow 3:

Average throughput: 71.19 Mbit/s

95th percentile per-packet one-way delay: 145.736 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-01 04:46:56

End at: 2018-02-01 04:47:26

Below is generated by plot.py at 2018-02-01 08:43:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 112.10 Mbit/s

95th percentile per-packet one-way delay: 144.410 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 58.42 Mbit/s

95th percentile per-packet one-way delay: 144.090 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 53.07 Mbit/s

95th percentile per-packet one-way delay: 145.850 ms

Loss rate: 0.00%

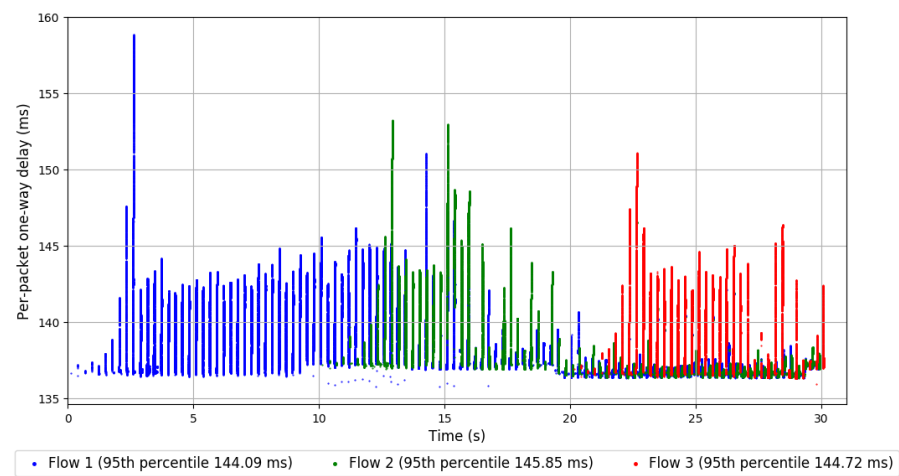
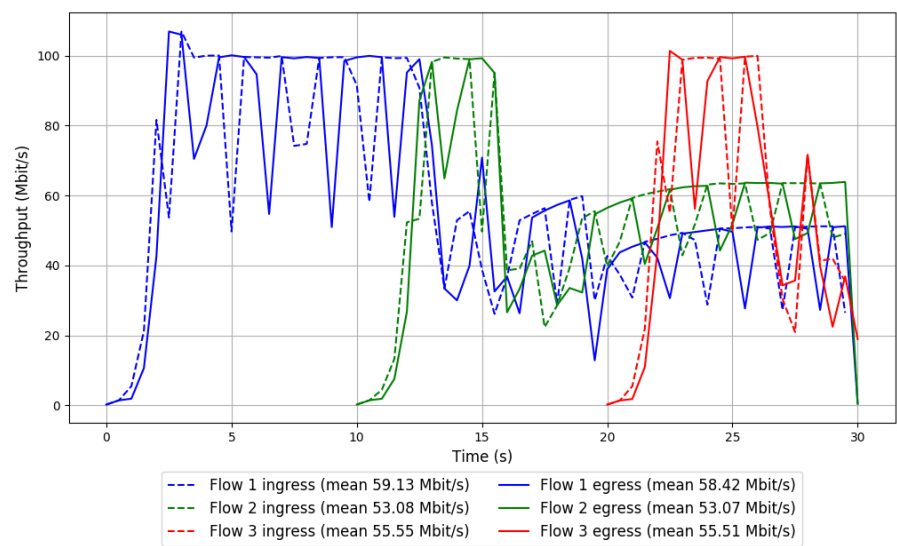
-- Flow 3:

Average throughput: 55.51 Mbit/s

95th percentile per-packet one-way delay: 144.720 ms

Loss rate: 0.07%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-01 05:06:21

End at: 2018-02-01 05:06:51

Below is generated by plot.py at 2018-02-01 08:43:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.95 Mbit/s

95th percentile per-packet one-way delay: 148.841 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 16.62 Mbit/s

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

Loss rate: 1.38%

-- Flow 2:

Average throughput: 80.20 Mbit/s

95th percentile per-packet one-way delay: 149.256 ms

Loss rate: 0.26%

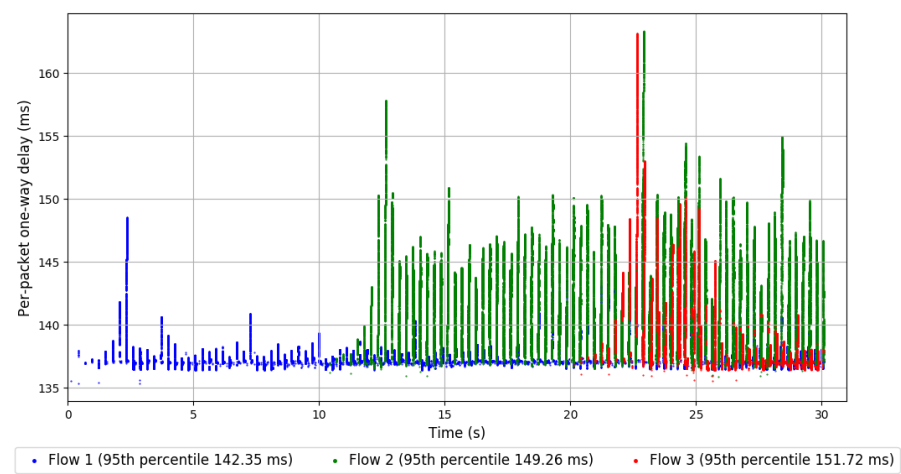
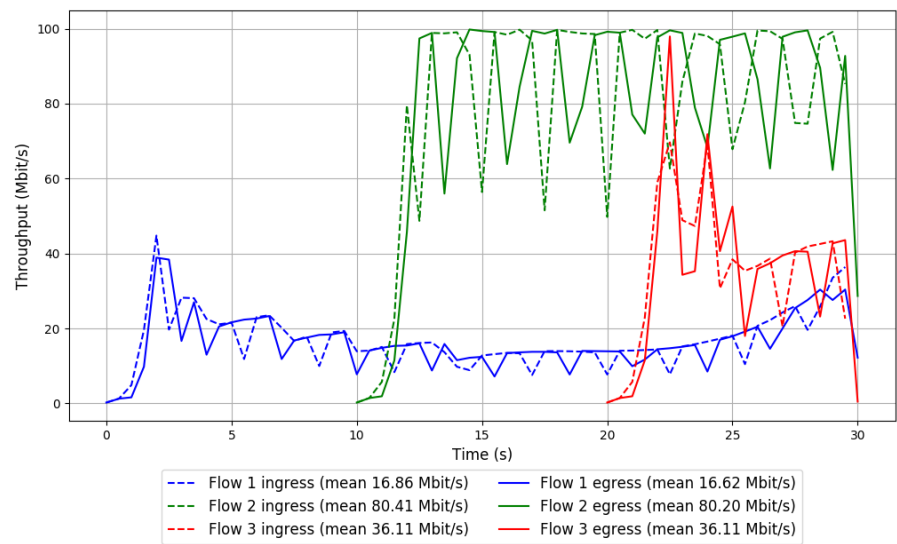
-- Flow 3:

Average throughput: 36.11 Mbit/s

95th percentile per-packet one-way delay: 151.723 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-01 05:24:26

End at: 2018-02-01 05:24:56

Below is generated by plot.py at 2018-02-01 08:43:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.64 Mbit/s

95th percentile per-packet one-way delay: 151.118 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 46.73 Mbit/s

95th percentile per-packet one-way delay: 147.647 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 32.33 Mbit/s

95th percentile per-packet one-way delay: 151.341 ms

Loss rate: 0.52%

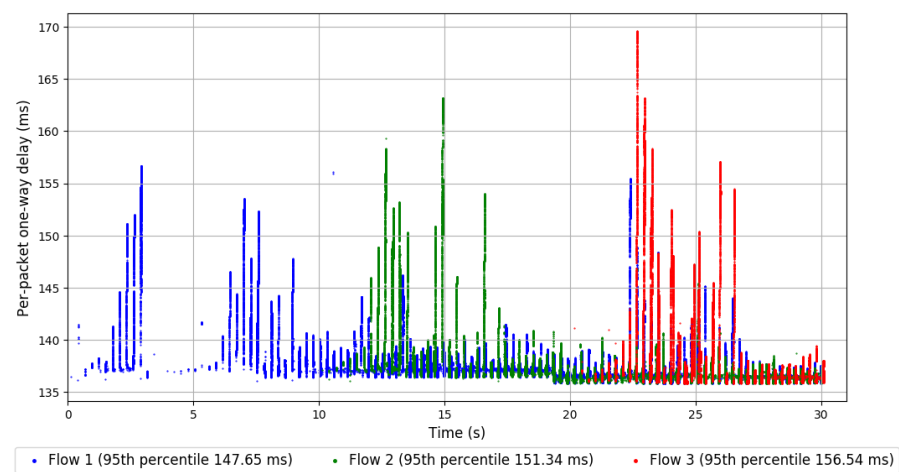
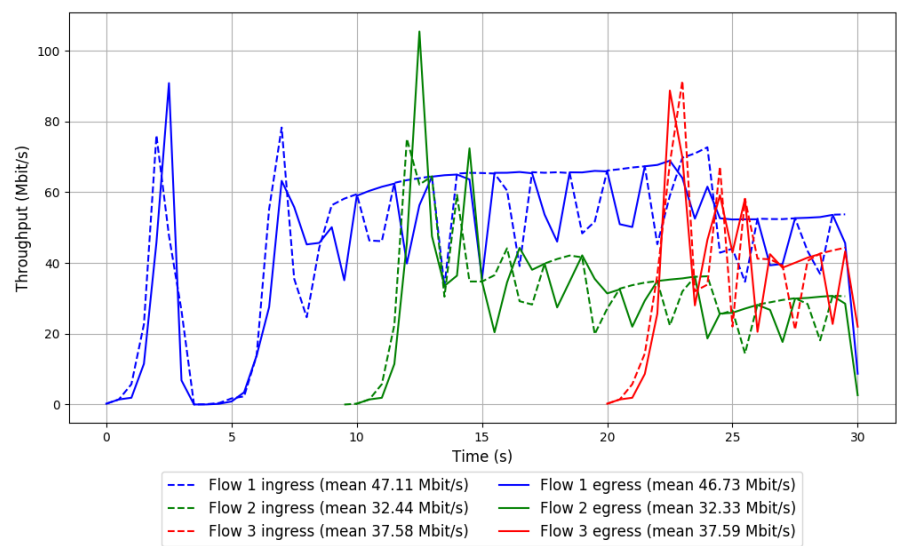
-- Flow 3:

Average throughput: 37.59 Mbit/s

95th percentile per-packet one-way delay: 156.541 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-01 05:43:46

End at: 2018-02-01 05:44:16

Below is generated by plot.py at 2018-02-01 08:43:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.46 Mbit/s

95th percentile per-packet one-way delay: 144.482 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 51.92 Mbit/s

95th percentile per-packet one-way delay: 143.522 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 82.41 Mbit/s

95th percentile per-packet one-way delay: 143.400 ms

Loss rate: 0.00%

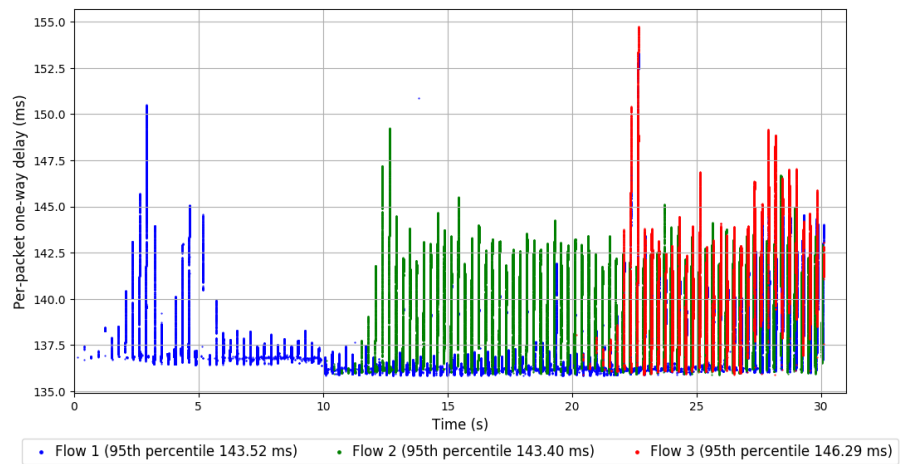
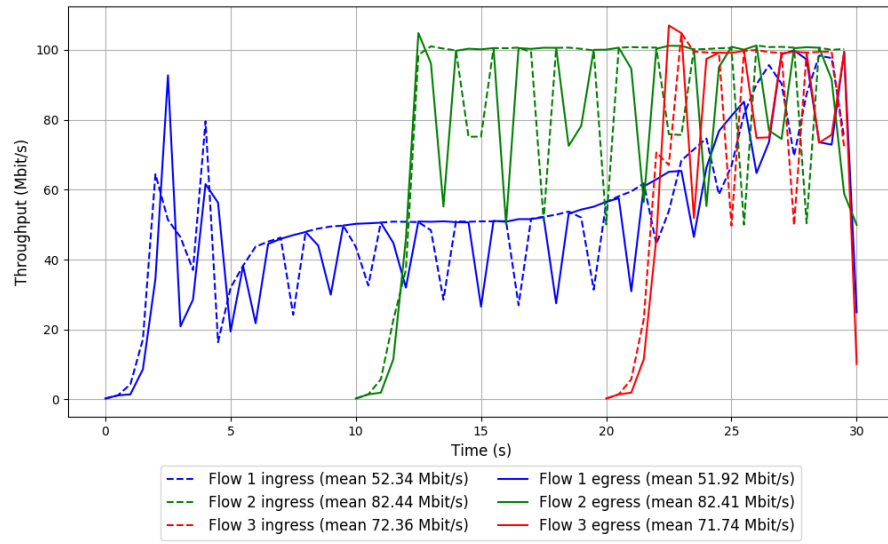
-- Flow 3:

Average throughput: 71.74 Mbit/s

95th percentile per-packet one-way delay: 146.291 ms

Loss rate: 0.87%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-01 06:03:07

End at: 2018-02-01 06:03:37

Below is generated by plot.py at 2018-02-01 08:43:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.69 Mbit/s

95th percentile per-packet one-way delay: 163.402 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 6.49 Mbit/s

95th percentile per-packet one-way delay: 163.108 ms

Loss rate: 1.50%

-- Flow 2:

Average throughput: 10.92 Mbit/s

95th percentile per-packet one-way delay: 163.680 ms

Loss rate: 0.56%

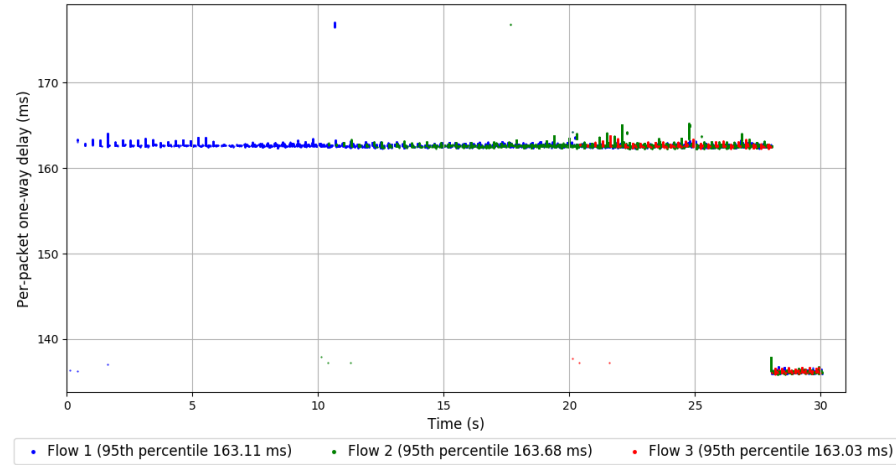
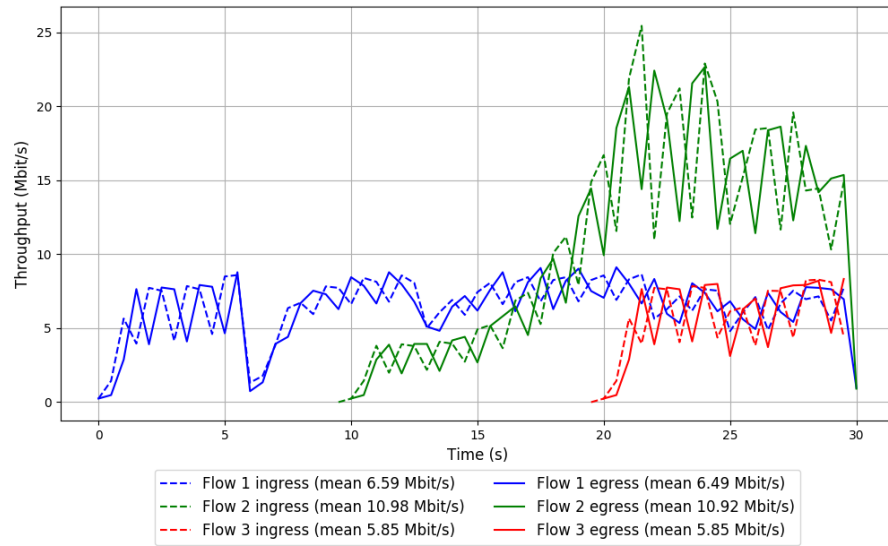
-- Flow 3:

Average throughput: 5.85 Mbit/s

95th percentile per-packet one-way delay: 163.032 ms

Loss rate: 0.08%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-01 06:22:04

End at: 2018-02-01 06:22:34

Below is generated by plot.py at 2018-02-01 08:43:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.67 Mbit/s

95th percentile per-packet one-way delay: 144.005 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 35.13 Mbit/s

95th percentile per-packet one-way delay: 141.841 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 57.17 Mbit/s

95th percentile per-packet one-way delay: 143.653 ms

Loss rate: 0.00%

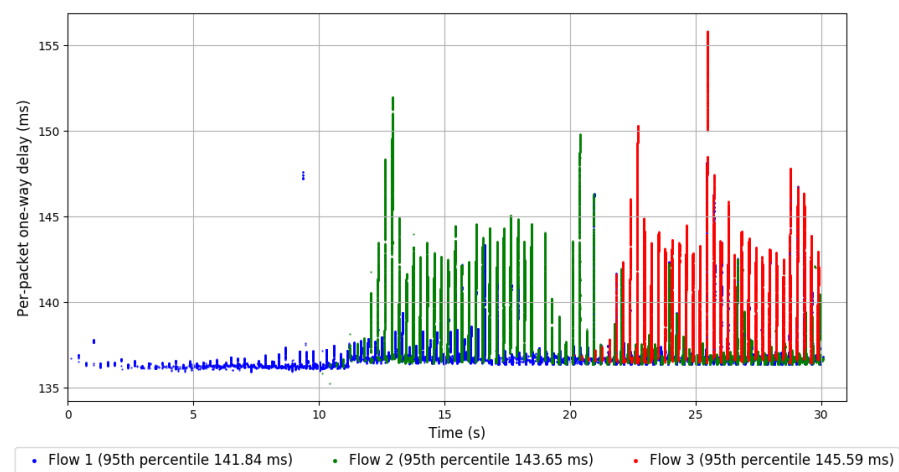
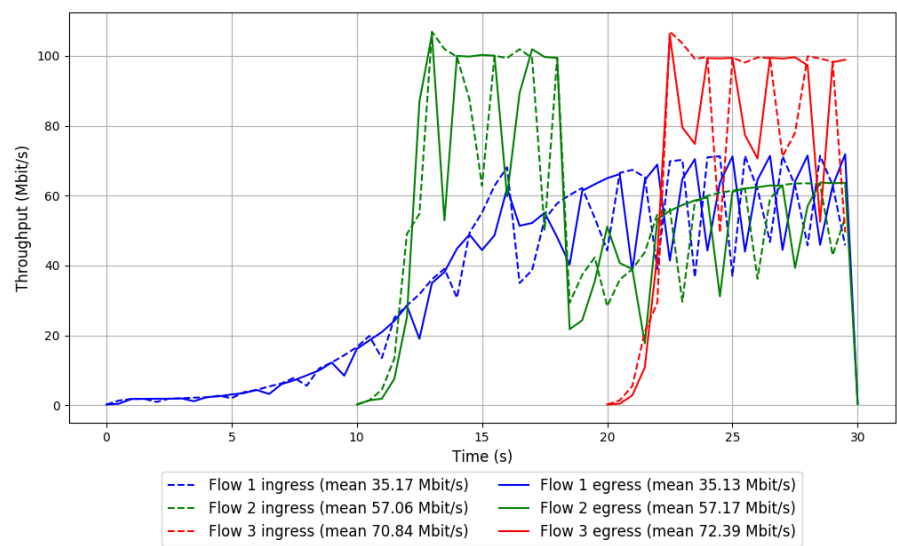
-- Flow 3:

Average throughput: 72.39 Mbit/s

95th percentile per-packet one-way delay: 145.588 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-01 06:41:33

End at: 2018-02-01 06:42:03

Below is generated by plot.py at 2018-02-01 08:43:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.35 Mbit/s

95th percentile per-packet one-way delay: 143.030 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 64.05 Mbit/s

95th percentile per-packet one-way delay: 143.000 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 45.66 Mbit/s

95th percentile per-packet one-way delay: 143.393 ms

Loss rate: 0.00%

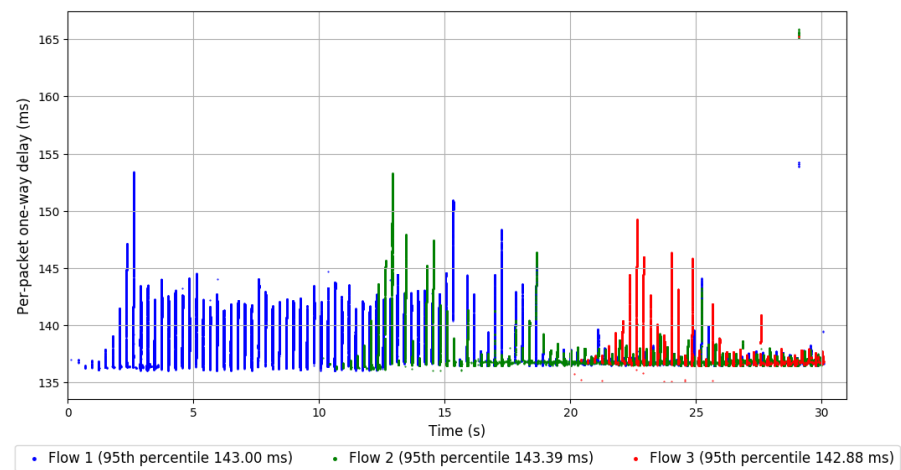
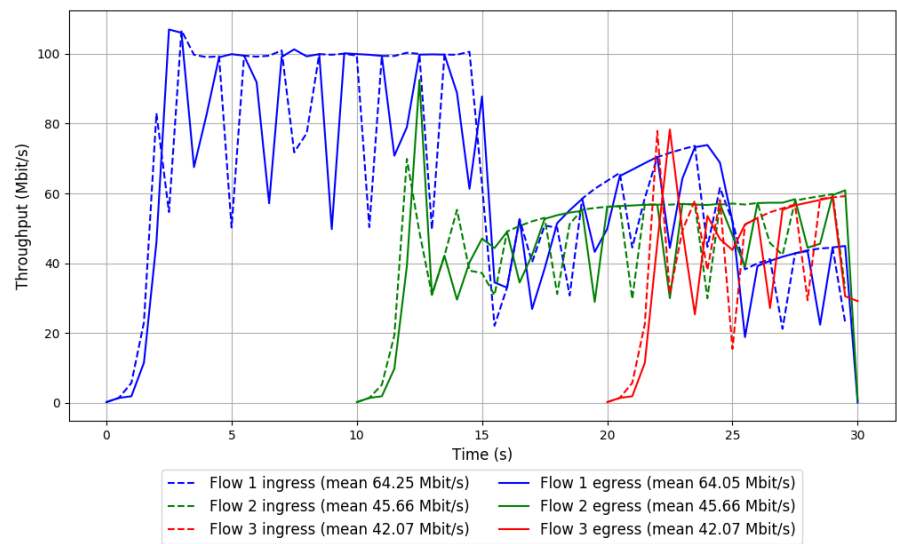
-- Flow 3:

Average throughput: 42.07 Mbit/s

95th percentile per-packet one-way delay: 142.881 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-01 07:00:39

End at: 2018-02-01 07:01:09

Below is generated by plot.py at 2018-02-01 08:43:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.09 Mbit/s

95th percentile per-packet one-way delay: 143.809 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 48.71 Mbit/s

95th percentile per-packet one-way delay: 143.449 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 36.71 Mbit/s

95th percentile per-packet one-way delay: 141.412 ms

Loss rate: 0.00%

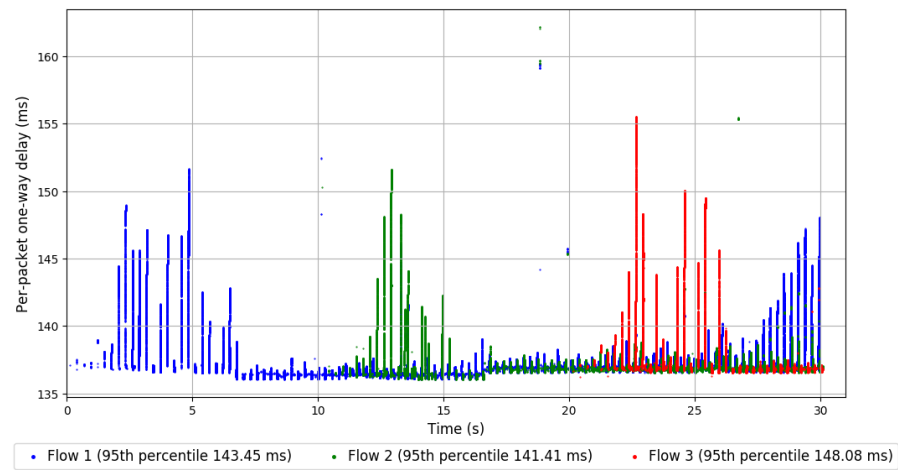
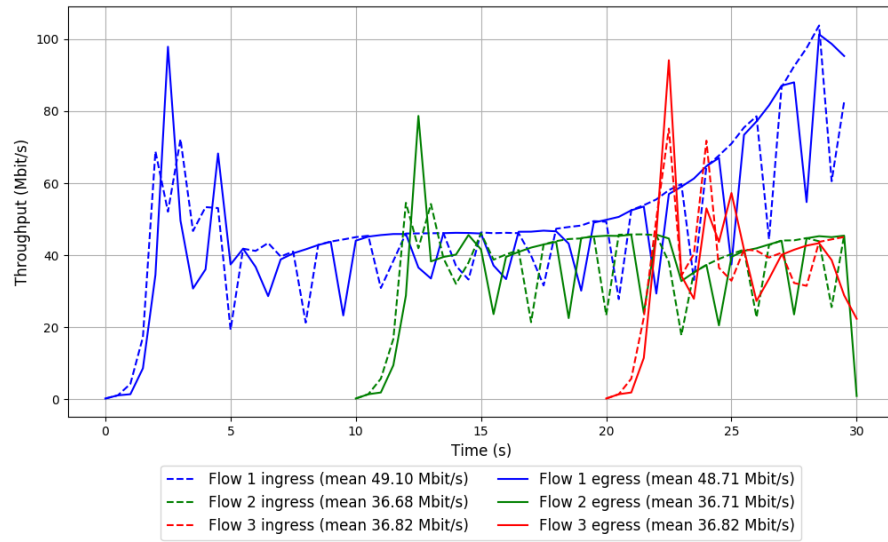
-- Flow 3:

Average throughput: 36.82 Mbit/s

95th percentile per-packet one-way delay: 148.082 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-01 07:19:32

End at: 2018-02-01 07:20:02

Below is generated by plot.py at 2018-02-01 08:44:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.14 Mbit/s

95th percentile per-packet one-way delay: 144.451 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 10.96 Mbit/s

95th percentile per-packet one-way delay: 140.871 ms

Loss rate: 1.79%

-- Flow 2:

Average throughput: 81.96 Mbit/s

95th percentile per-packet one-way delay: 144.324 ms

Loss rate: 0.00%

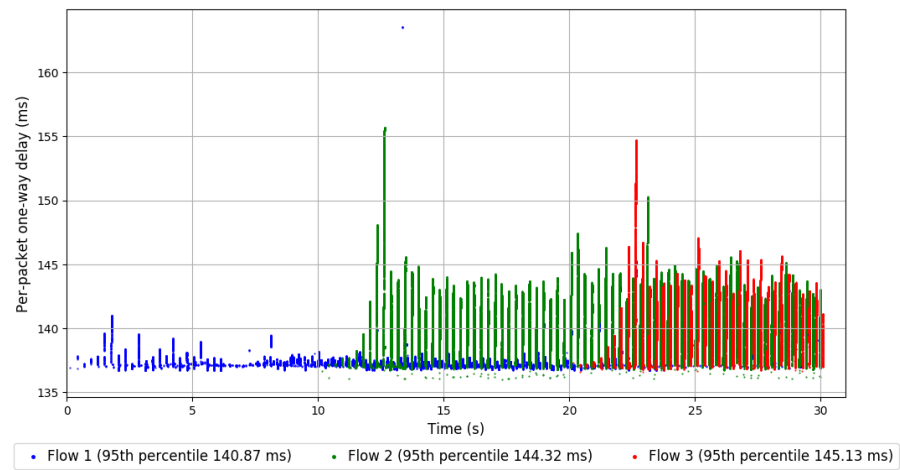
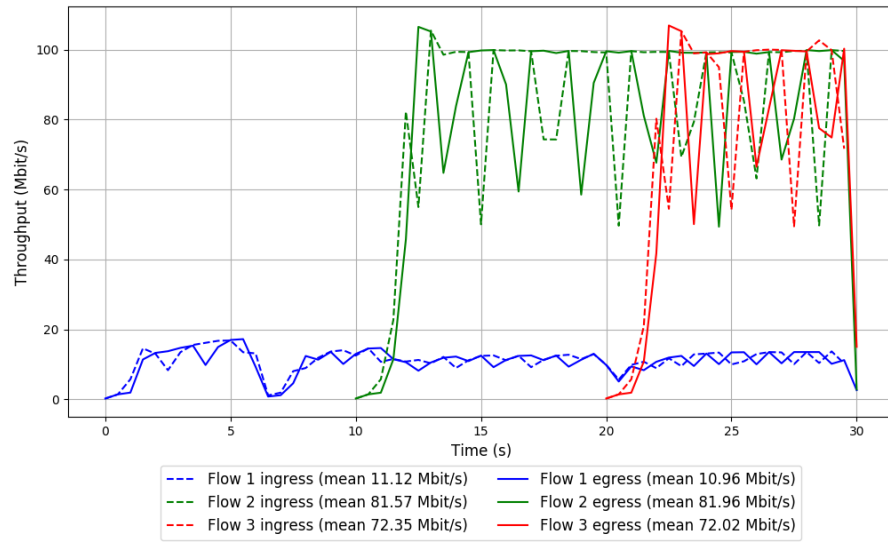
-- Flow 3:

Average throughput: 72.02 Mbit/s

95th percentile per-packet one-way delay: 145.129 ms

Loss rate: 0.45%

Run 10: Report of TCP Cubic — Data Link

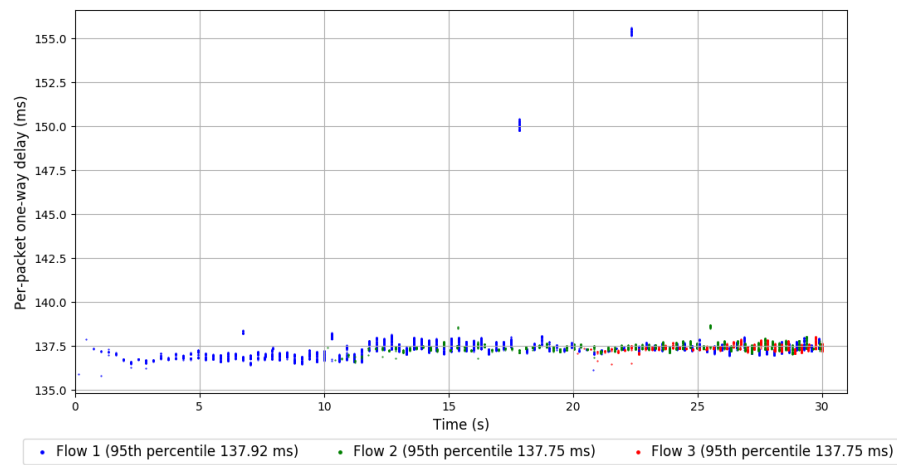
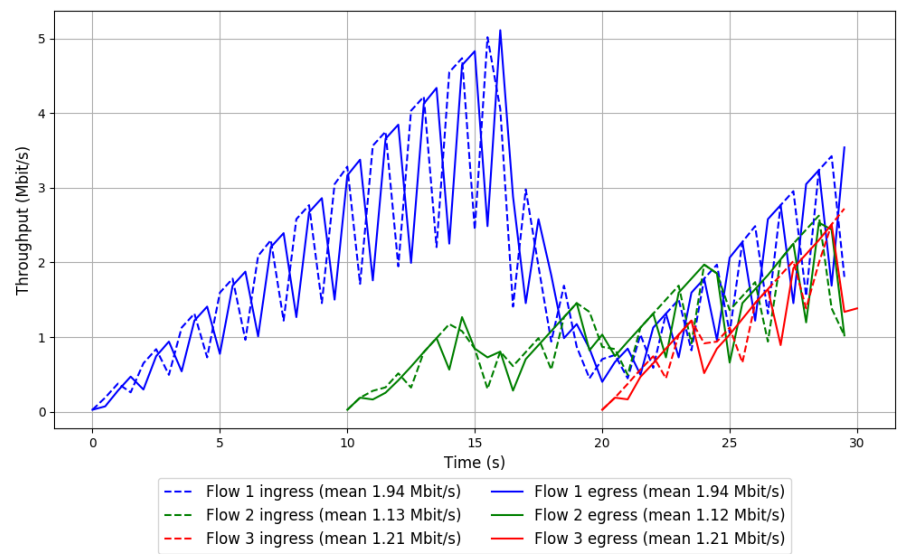


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-01 04:35:54
End at: 2018-02-01 04:36:24

# Below is generated by plot.py at 2018-02-01 08:44:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.07 Mbit/s
95th percentile per-packet one-way delay: 137.886 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 137.917 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.12 Mbit/s
95th percentile per-packet one-way delay: 137.753 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 137.749 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

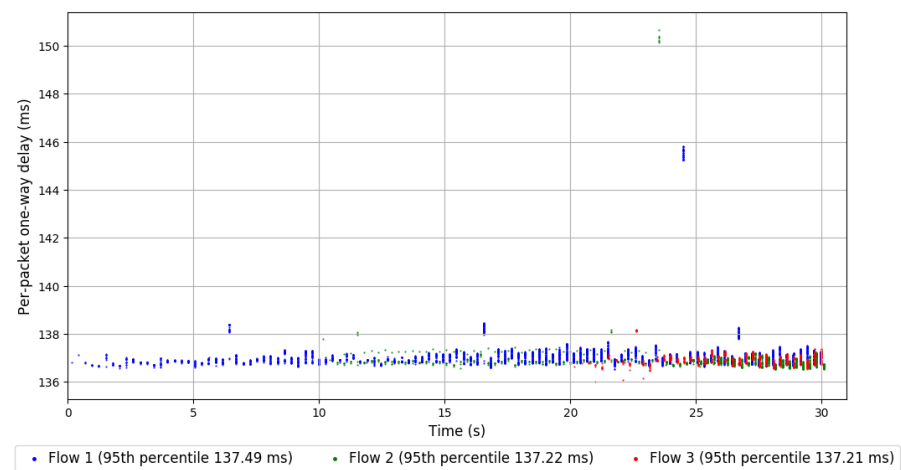
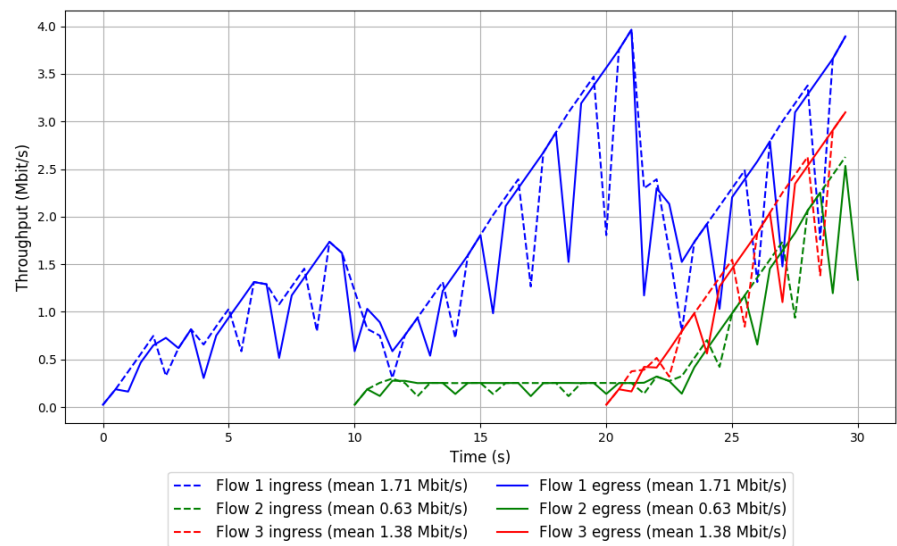


```
Run 2: Statistics of LEDBAT

Start at: 2018-02-01 04:55:09
End at: 2018-02-01 04:55:39

# Below is generated by plot.py at 2018-02-01 08:44:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.58 Mbit/s
95th percentile per-packet one-way delay: 137.389 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 137.488 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 137.216 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 137.208 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

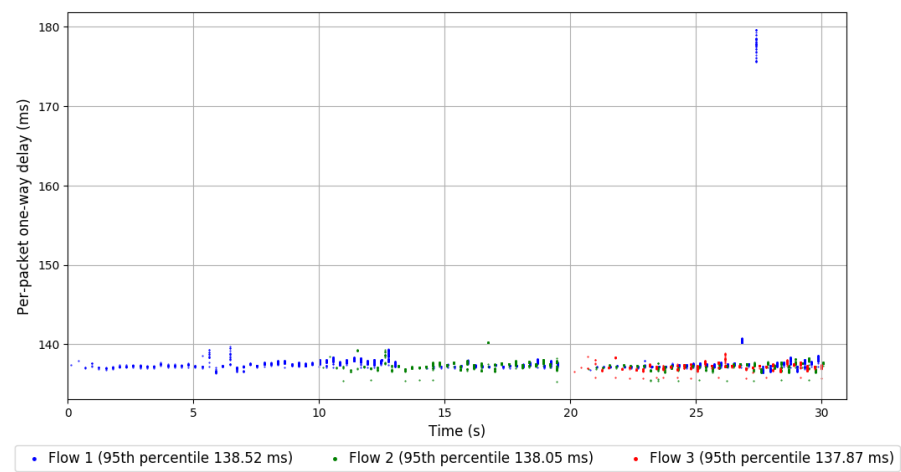
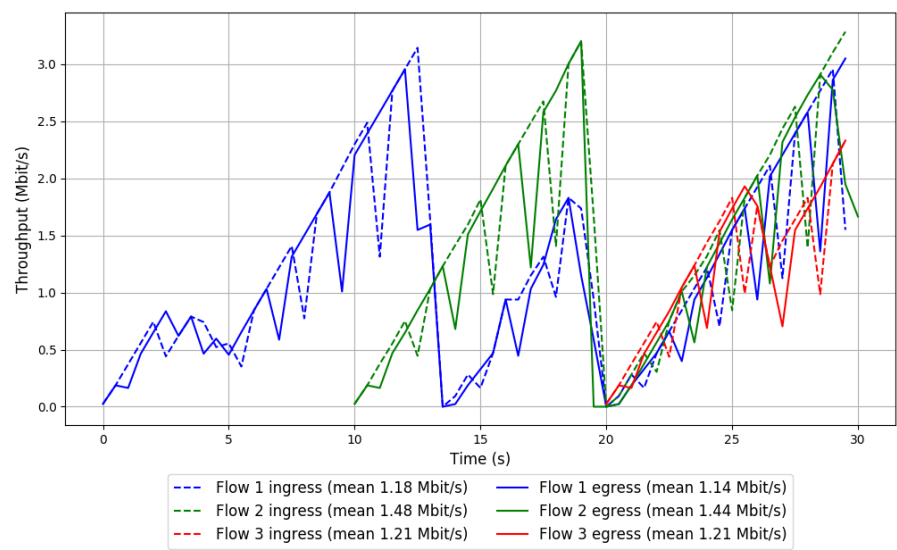


```
Run 3: Statistics of LEDBAT

Start at: 2018-02-01 05:13:46
End at: 2018-02-01 05:14:16

# Below is generated by plot.py at 2018-02-01 08:44:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.49 Mbit/s
95th percentile per-packet one-way delay: 138.211 ms
Loss rate: 2.77%
-- Flow 1:
Average throughput: 1.14 Mbit/s
95th percentile per-packet one-way delay: 138.516 ms
Loss rate: 3.66%
-- Flow 2:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 138.047 ms
Loss rate: 2.83%
-- Flow 3:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 137.866 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

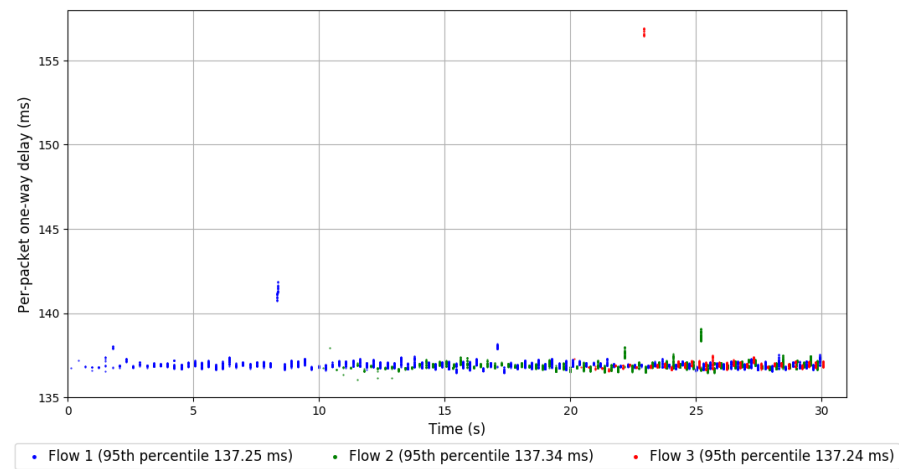
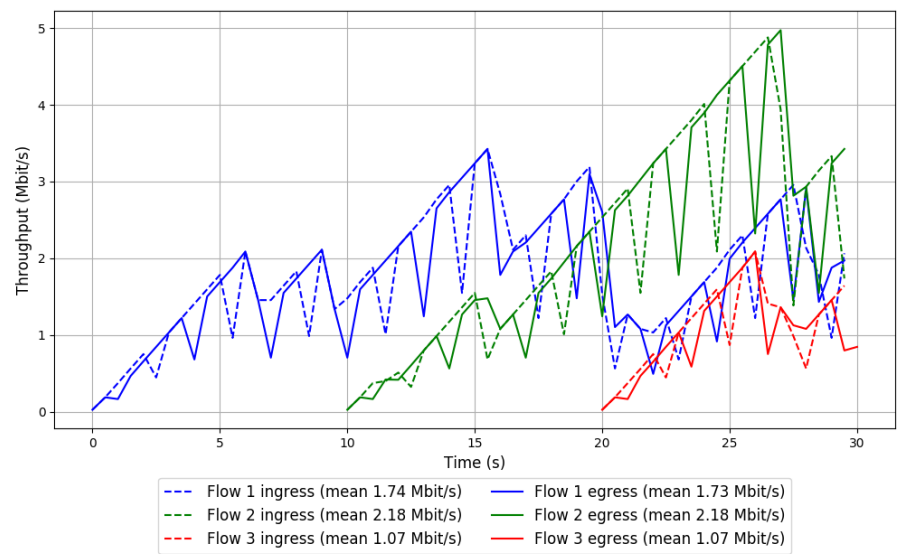


```
Run 4: Statistics of LEDBAT

Start at: 2018-02-01 05:32:09
End at: 2018-02-01 05:32:39

# Below is generated by plot.py at 2018-02-01 08:44:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.52 Mbit/s
95th percentile per-packet one-way delay: 137.265 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 1.73 Mbit/s
95th percentile per-packet one-way delay: 137.249 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 137.341 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.07 Mbit/s
95th percentile per-packet one-way delay: 137.241 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-01 05:51:39

End at: 2018-02-01 05:52:09

Below is generated by plot.py at 2018-02-01 08:44:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 136.942 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 162.573 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 136.841 ms

Loss rate: 0.00%

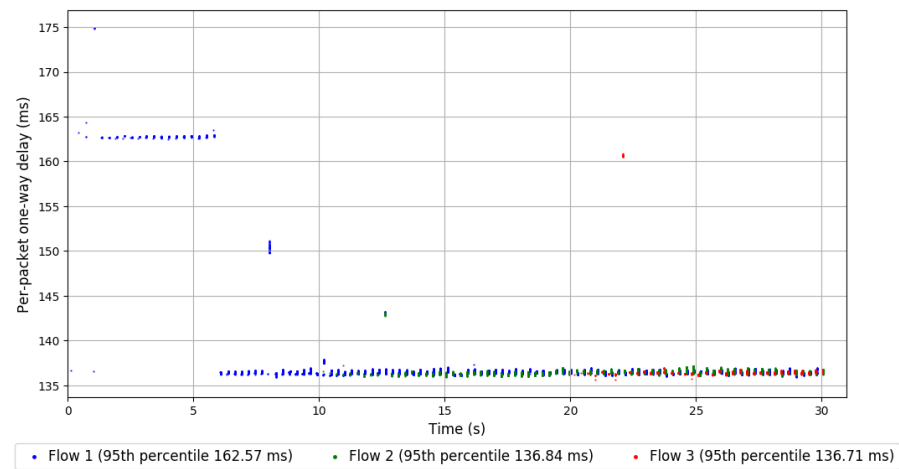
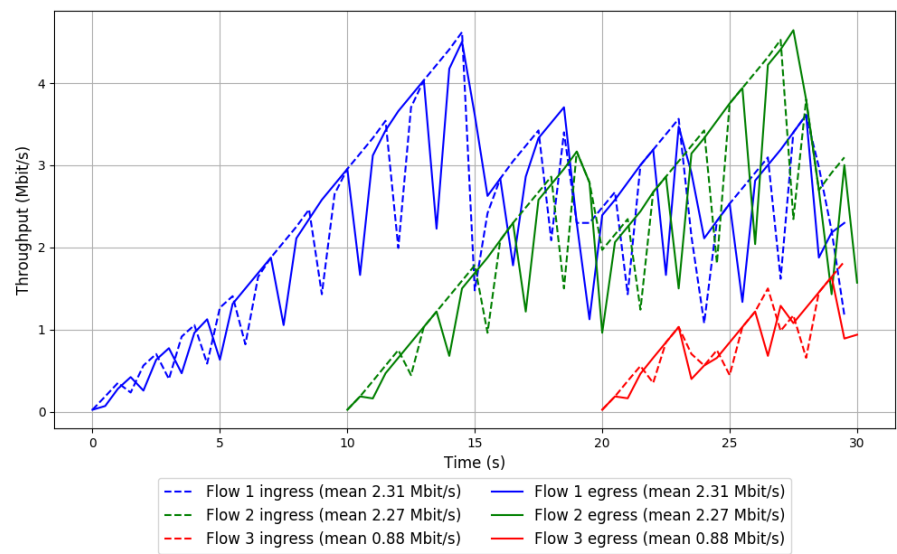
-- Flow 3:

Average throughput: 0.88 Mbit/s

95th percentile per-packet one-way delay: 136.705 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

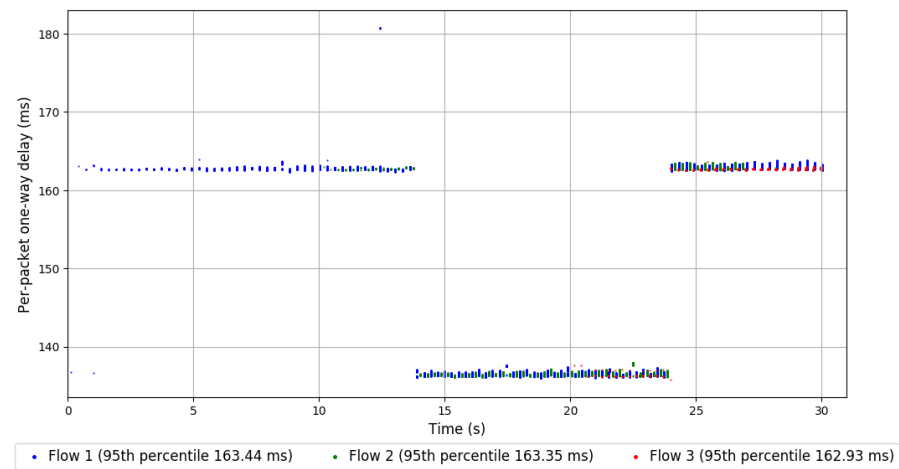
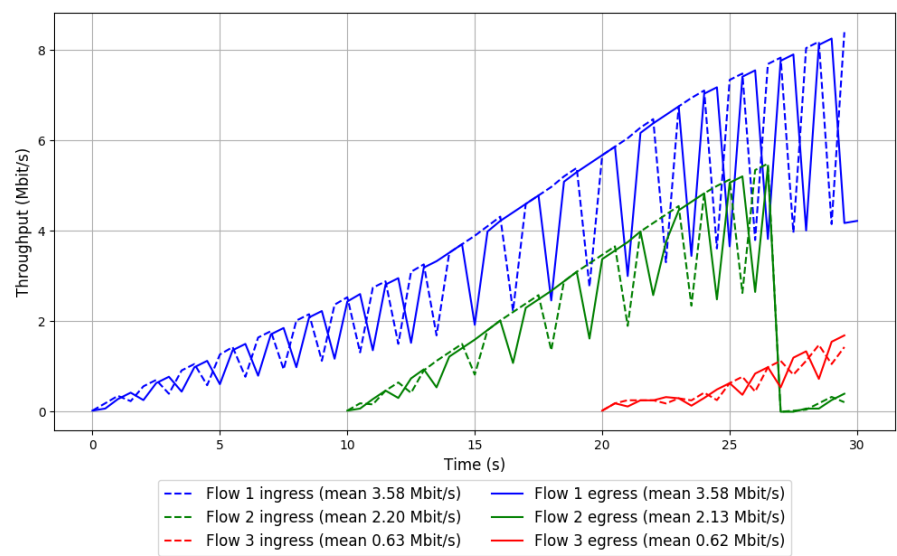


```
Run 6: Statistics of LEDBAT

Start at: 2018-02-01 06:11:02
End at: 2018-02-01 06:11:32

# Below is generated by plot.py at 2018-02-01 08:44:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.19 Mbit/s
95th percentile per-packet one-way delay: 163.408 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 3.58 Mbit/s
95th percentile per-packet one-way delay: 163.443 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 163.349 ms
Loss rate: 3.19%
-- Flow 3:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 162.930 ms
Loss rate: 0.00%
```

Run 6: Report of LEDBAT — Data Link

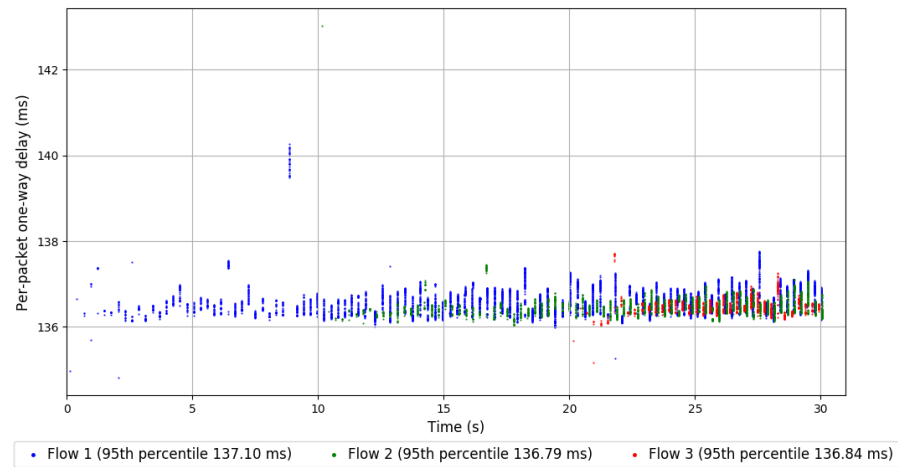
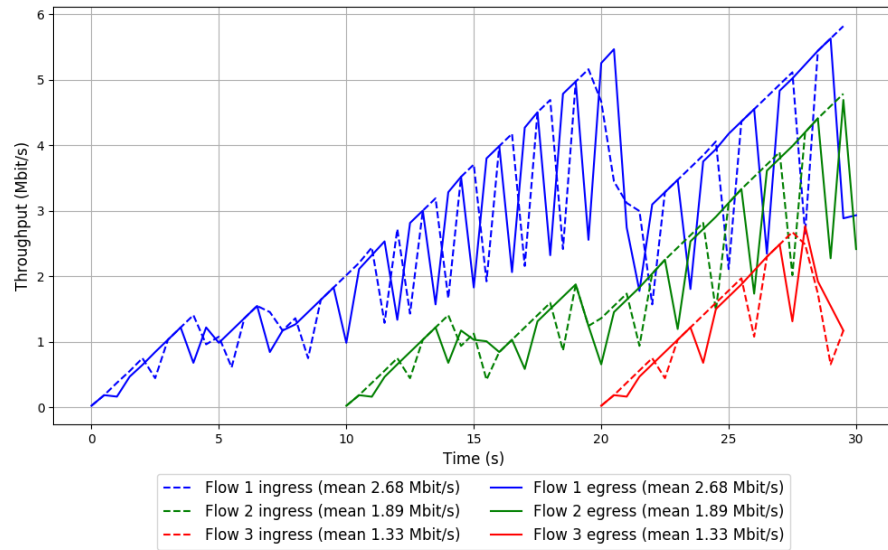


```
Run 7: Statistics of LEDBAT

Start at: 2018-02-01 06:30:23
End at: 2018-02-01 06:30:53

# Below is generated by plot.py at 2018-02-01 08:44:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.37 Mbit/s
95th percentile per-packet one-way delay: 137.028 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 2.68 Mbit/s
95th percentile per-packet one-way delay: 137.097 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 136.793 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 136.835 ms
Loss rate: 0.00%
```

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-01 06:49:04

End at: 2018-02-01 06:49:34

Below is generated by plot.py at 2018-02-01 08:44:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 137.445 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.49 Mbit/s

95th percentile per-packet one-way delay: 137.459 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 137.301 ms

Loss rate: 0.03%

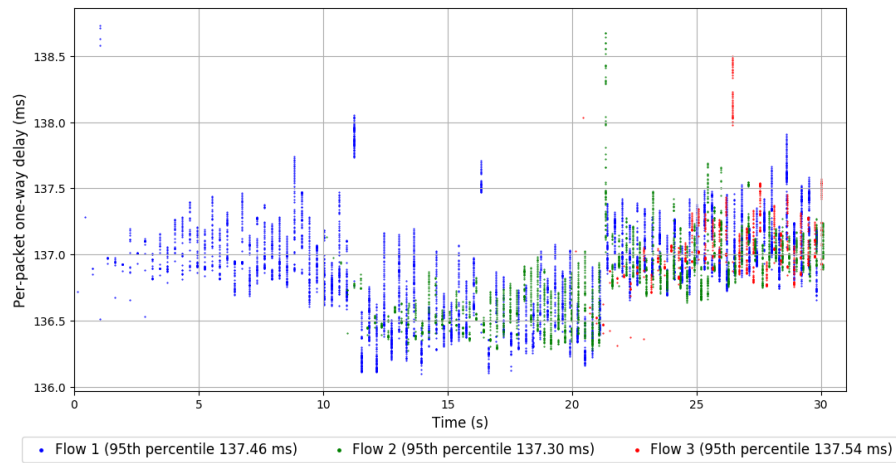
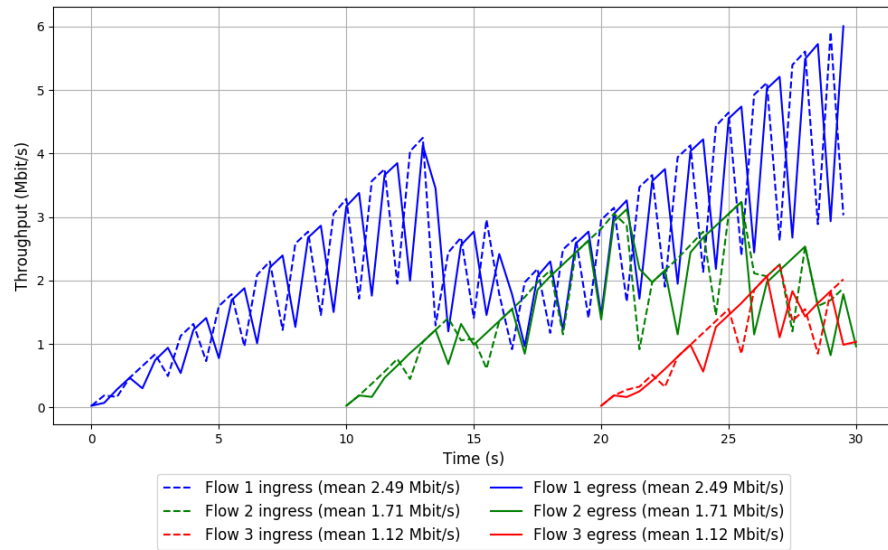
-- Flow 3:

Average throughput: 1.12 Mbit/s

95th percentile per-packet one-way delay: 137.539 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-01 07:08:19

End at: 2018-02-01 07:08:49

Below is generated by plot.py at 2018-02-01 08:44:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 137.432 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 1.18 Mbit/s

95th percentile per-packet one-way delay: 137.449 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 137.488 ms

Loss rate: 0.00%

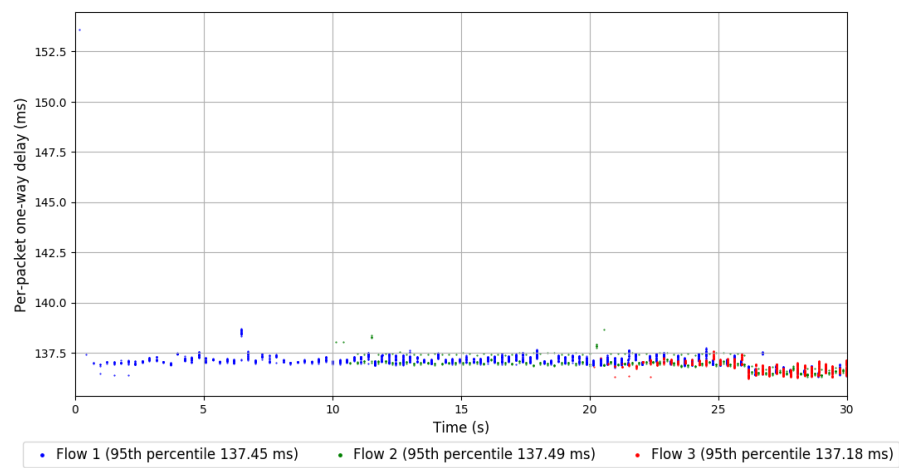
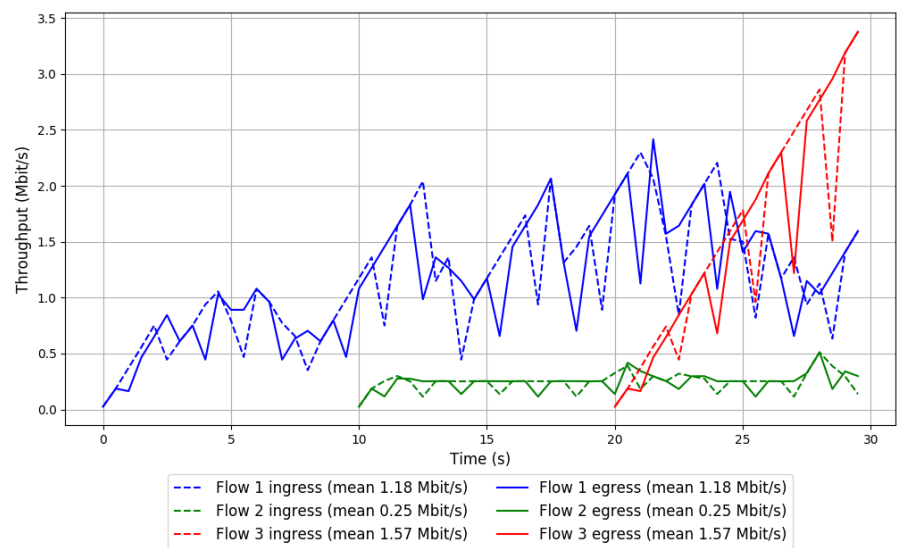
-- Flow 3:

Average throughput: 1.57 Mbit/s

95th percentile per-packet one-way delay: 137.179 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link

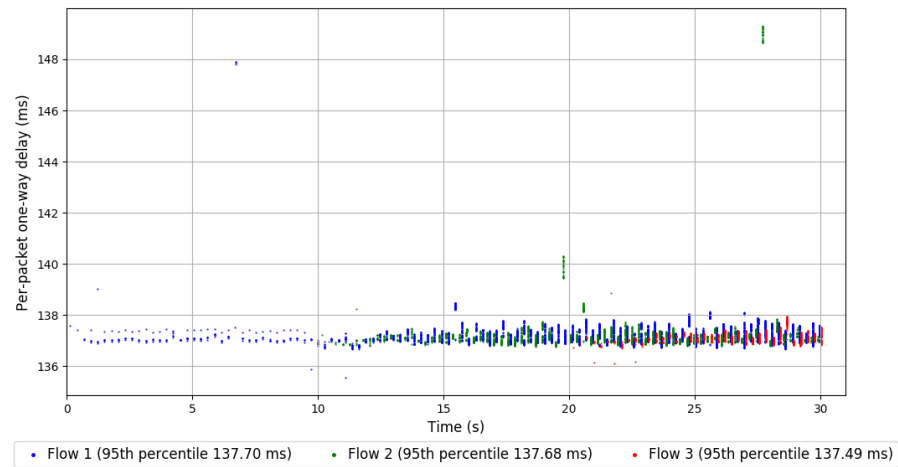
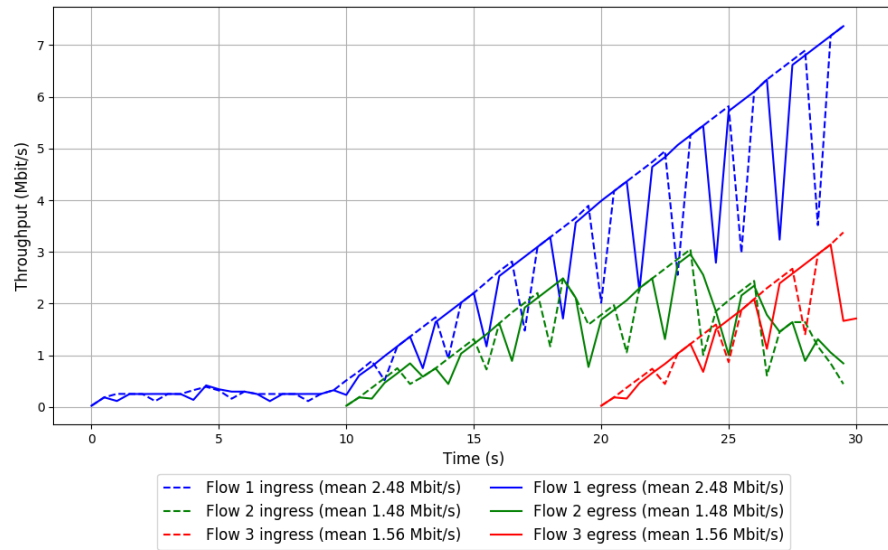


```
Run 10: Statistics of LEDBAT

Start at: 2018-02-01 07:27:56
End at: 2018-02-01 07:28:26

# Below is generated by plot.py at 2018-02-01 08:44:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.97 Mbit/s
95th percentile per-packet one-way delay: 137.678 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 2.48 Mbit/s
95th percentile per-packet one-way delay: 137.700 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: 137.675 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 1.56 Mbit/s
95th percentile per-packet one-way delay: 137.487 ms
Loss rate: 0.00%
```

Run 10: Report of LEDBAT — Data Link

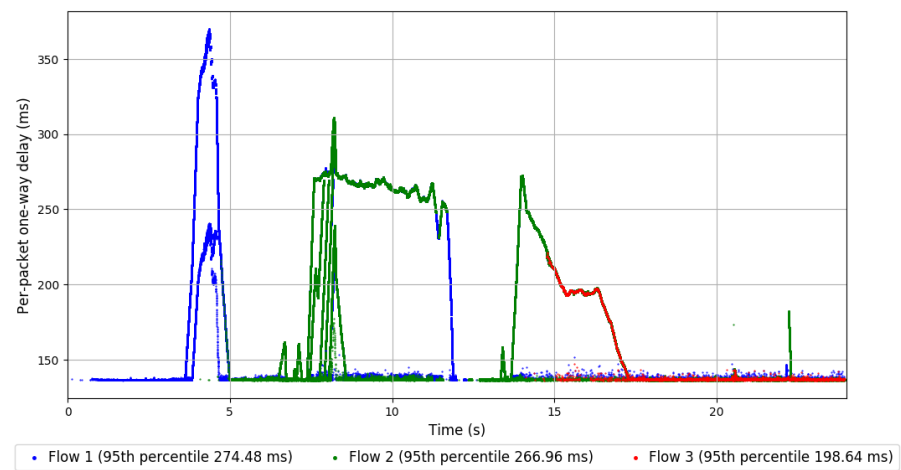
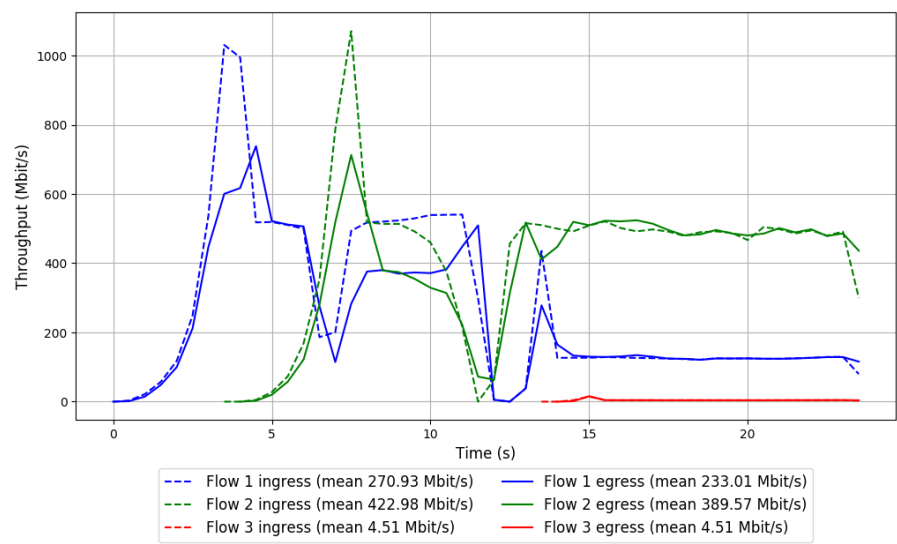


Run 1: Statistics of PCC

Start at: 2018-02-01 04:37:40

End at: 2018-02-01 04:38:10

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-01 04:56:49

End at: 2018-02-01 04:57:19

Below is generated by plot.py at 2018-02-01 08:52:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 571.16 Mbit/s

95th percentile per-packet one-way delay: 230.101 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 543.17 Mbit/s

95th percentile per-packet one-way delay: 230.300 ms

Loss rate: 1.42%

-- Flow 2:

Average throughput: 33.79 Mbit/s

95th percentile per-packet one-way delay: 227.129 ms

Loss rate: 0.01%

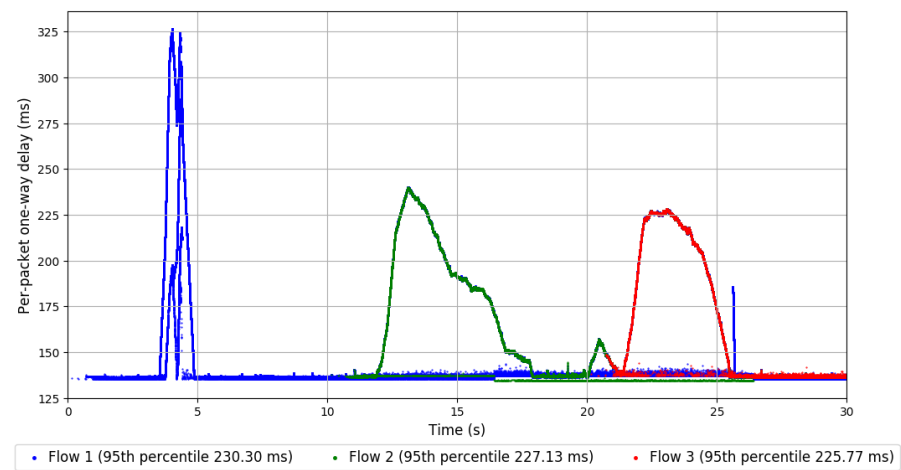
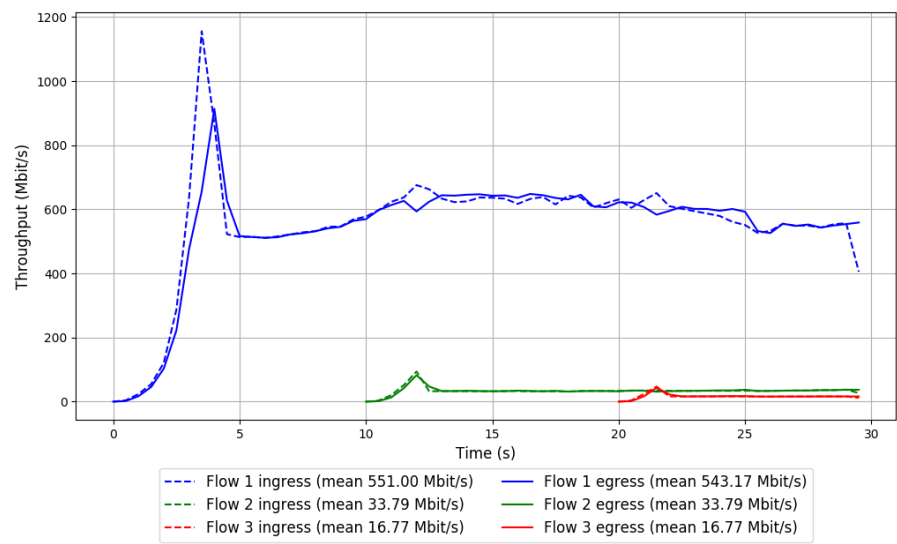
-- Flow 3:

Average throughput: 16.77 Mbit/s

95th percentile per-packet one-way delay: 225.768 ms

Loss rate: 0.02%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-01 05:15:28

End at: 2018-02-01 05:15:58

Below is generated by plot.py at 2018-02-01 08:52:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 449.09 Mbit/s

95th percentile per-packet one-way delay: 370.895 ms

Loss rate: 7.44%

-- Flow 1:

Average throughput: 284.09 Mbit/s

95th percentile per-packet one-way delay: 383.238 ms

Loss rate: 8.60%

-- Flow 2:

Average throughput: 148.69 Mbit/s

95th percentile per-packet one-way delay: 367.769 ms

Loss rate: 2.77%

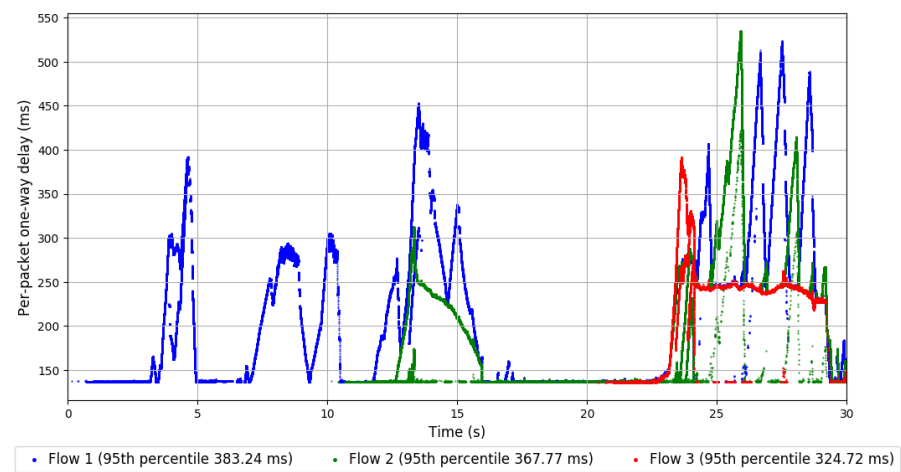
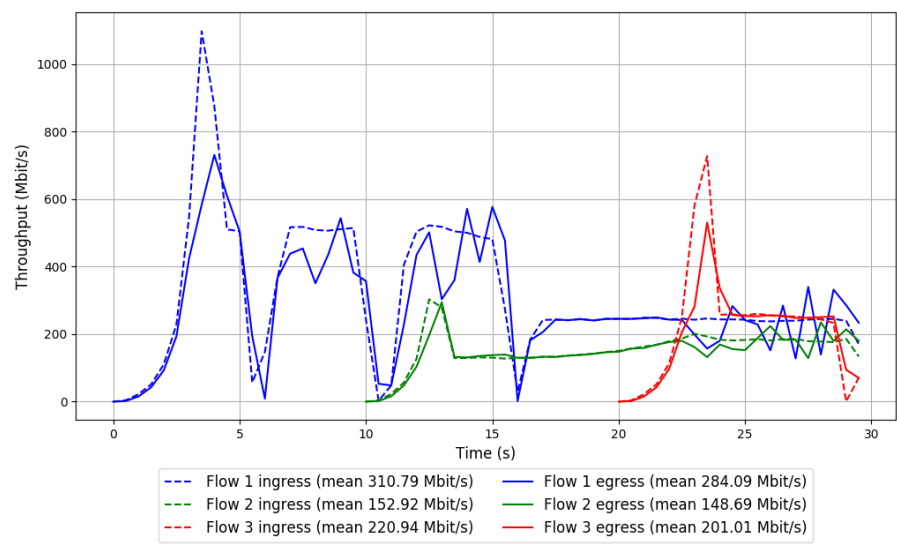
-- Flow 3:

Average throughput: 201.01 Mbit/s

95th percentile per-packet one-way delay: 324.720 ms

Loss rate: 9.02%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-01 05:33:52

End at: 2018-02-01 05:34:22

Below is generated by plot.py at 2018-02-01 08:52:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 574.07 Mbit/s

95th percentile per-packet one-way delay: 203.572 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 548.37 Mbit/s

95th percentile per-packet one-way delay: 203.387 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 34.19 Mbit/s

95th percentile per-packet one-way delay: 209.858 ms

Loss rate: 0.00%

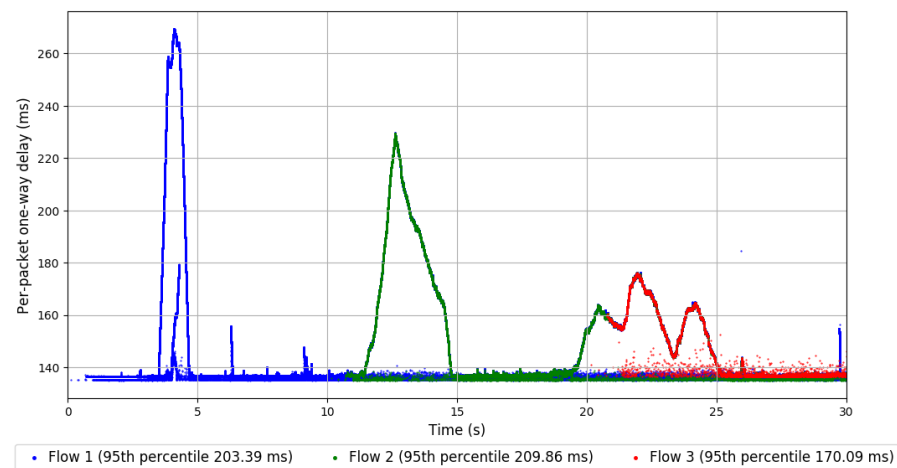
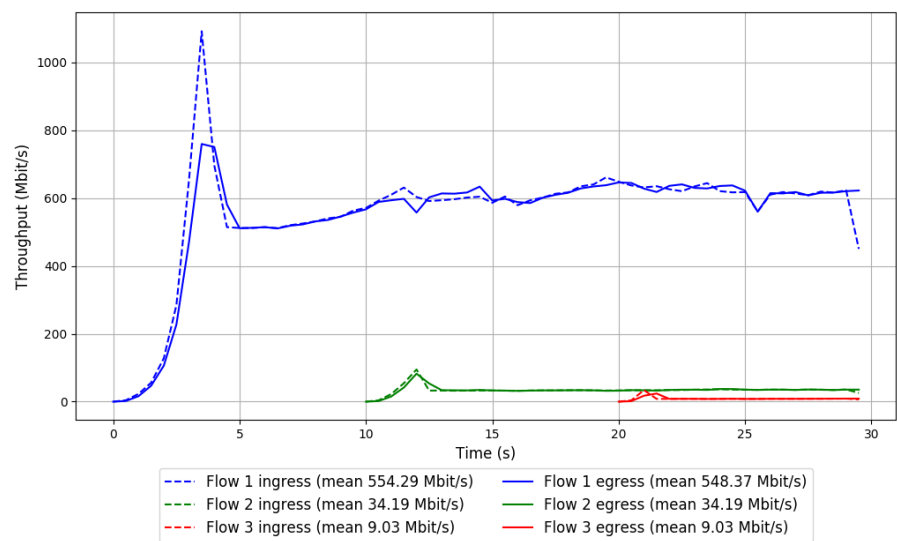
-- Flow 3:

Average throughput: 9.03 Mbit/s

95th percentile per-packet one-way delay: 170.090 ms

Loss rate: 0.05%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-01 05:53:23

End at: 2018-02-01 05:53:53

Below is generated by plot.py at 2018-02-01 08:52:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 518.65 Mbit/s

95th percentile per-packet one-way delay: 199.026 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 505.36 Mbit/s

95th percentile per-packet one-way delay: 201.590 ms

Loss rate: 1.53%

-- Flow 2:

Average throughput: 17.80 Mbit/s

95th percentile per-packet one-way delay: 162.838 ms

Loss rate: 0.14%

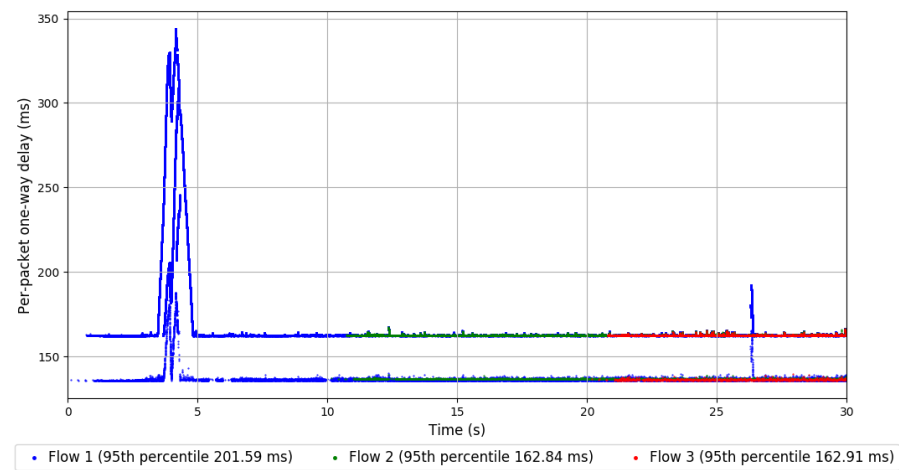
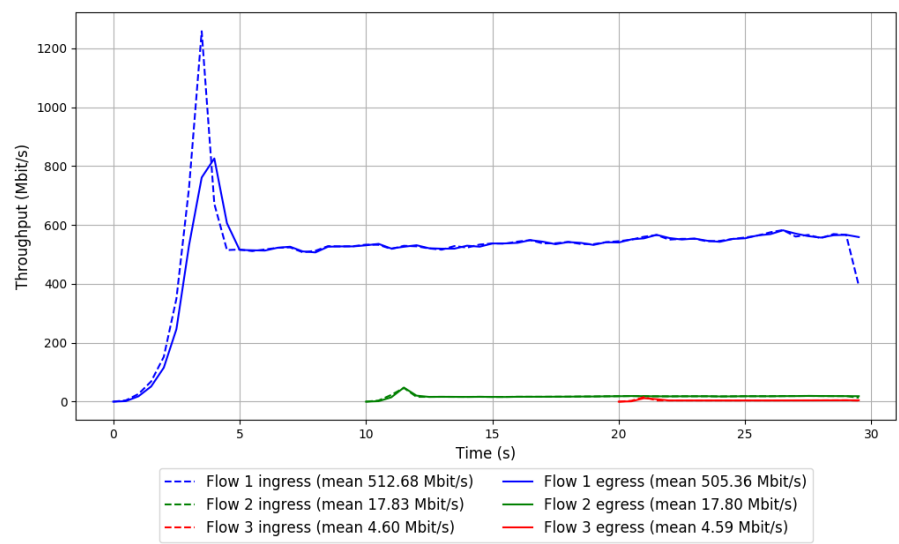
-- Flow 3:

Average throughput: 4.59 Mbit/s

95th percentile per-packet one-way delay: 162.907 ms

Loss rate: 0.29%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-01 06:12:43

End at: 2018-02-01 06:13:13

Below is generated by plot.py at 2018-02-01 08:52:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 401.68 Mbit/s

95th percentile per-packet one-way delay: 223.995 ms

Loss rate: 1.78%

-- Flow 1:

Average throughput: 66.38 Mbit/s

95th percentile per-packet one-way delay: 193.835 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 488.67 Mbit/s

95th percentile per-packet one-way delay: 235.867 ms

Loss rate: 2.09%

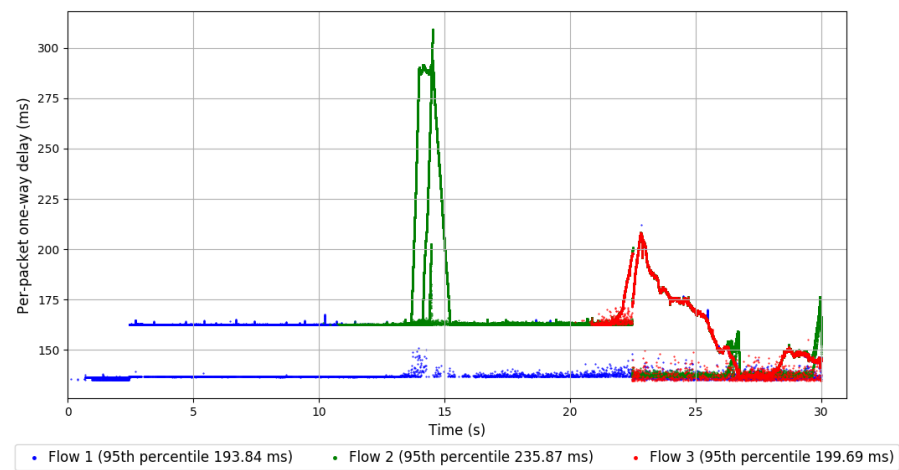
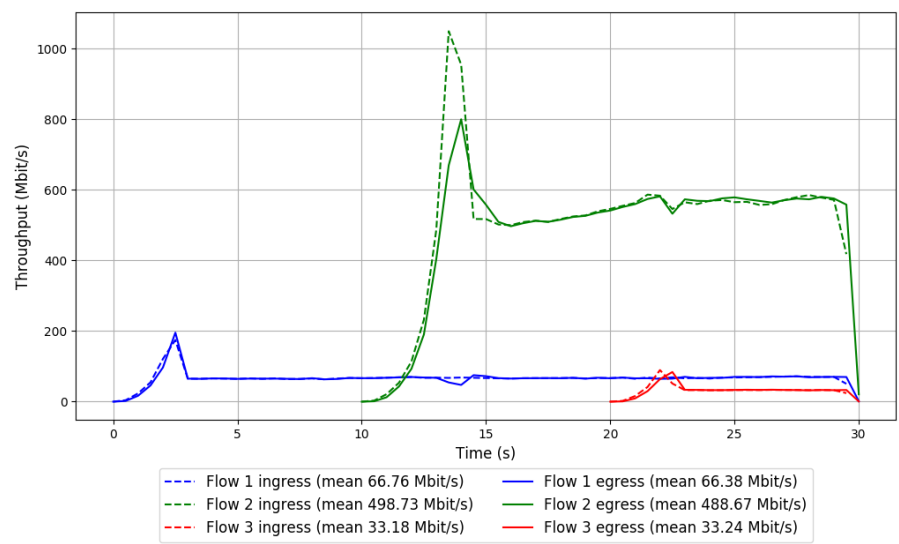
-- Flow 3:

Average throughput: 33.24 Mbit/s

95th percentile per-packet one-way delay: 199.693 ms

Loss rate: 0.00%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-01 06:32:06

End at: 2018-02-01 06:32:36

Below is generated by plot.py at 2018-02-01 08:52:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 384.95 Mbit/s

95th percentile per-packet one-way delay: 204.229 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 187.53 Mbit/s

95th percentile per-packet one-way delay: 185.237 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 265.02 Mbit/s

95th percentile per-packet one-way delay: 212.079 ms

Loss rate: 1.12%

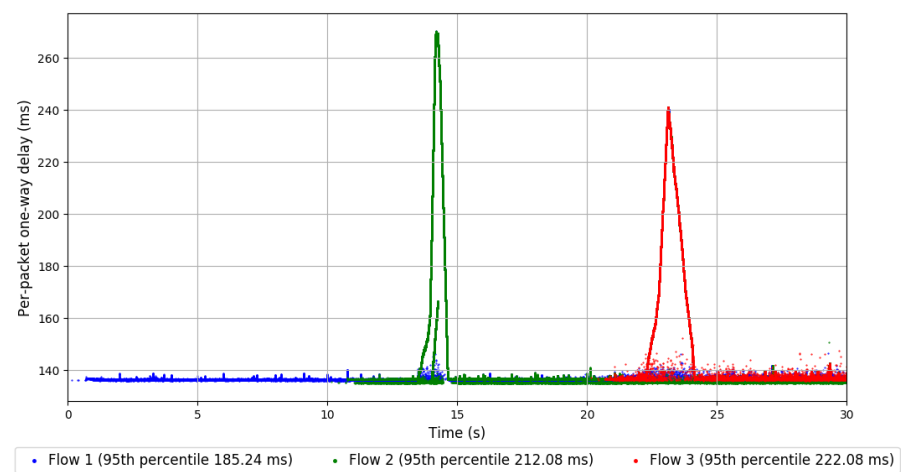
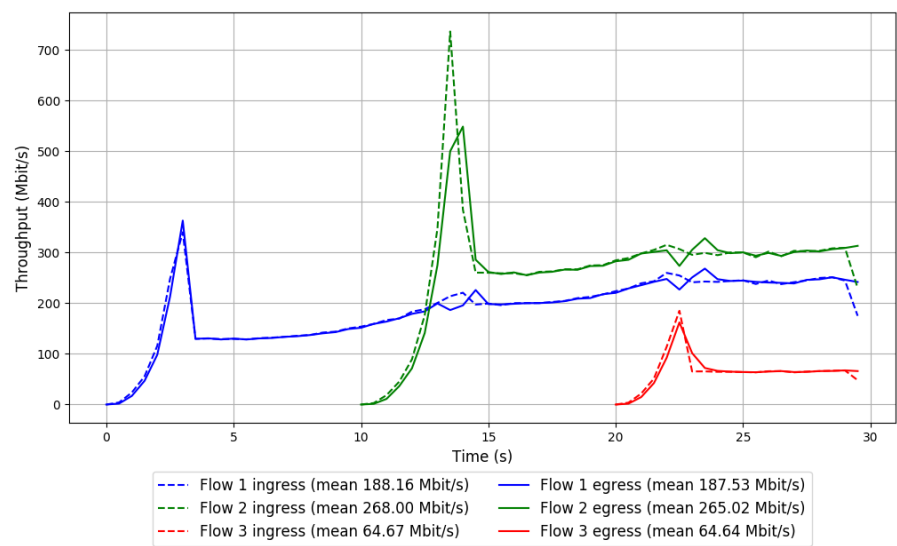
-- Flow 3:

Average throughput: 64.64 Mbit/s

95th percentile per-packet one-way delay: 222.084 ms

Loss rate: 0.03%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-01 06:50:48

End at: 2018-02-01 06:51:18

Below is generated by plot.py at 2018-02-01 08:53:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 577.57 Mbit/s

95th percentile per-packet one-way delay: 253.417 ms

Loss rate: 3.96%

-- Flow 1:

Average throughput: 515.51 Mbit/s

95th percentile per-packet one-way delay: 254.728 ms

Loss rate: 3.83%

-- Flow 2:

Average throughput: 64.75 Mbit/s

95th percentile per-packet one-way delay: 247.598 ms

Loss rate: 3.42%

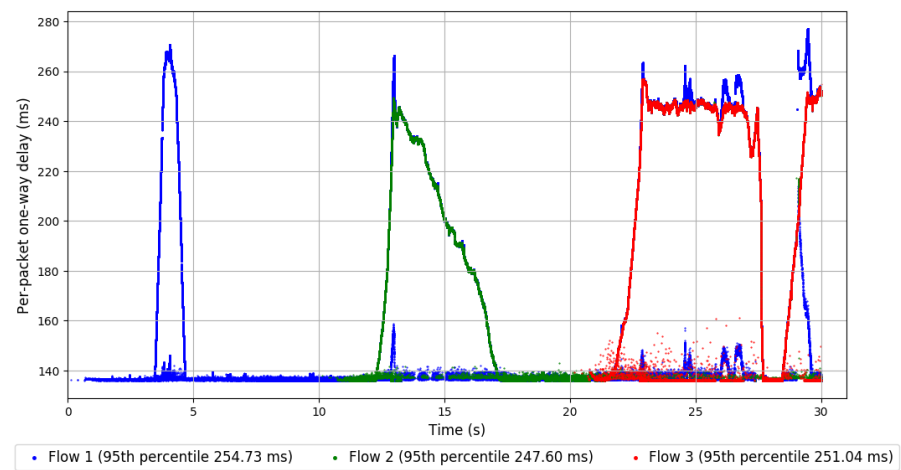
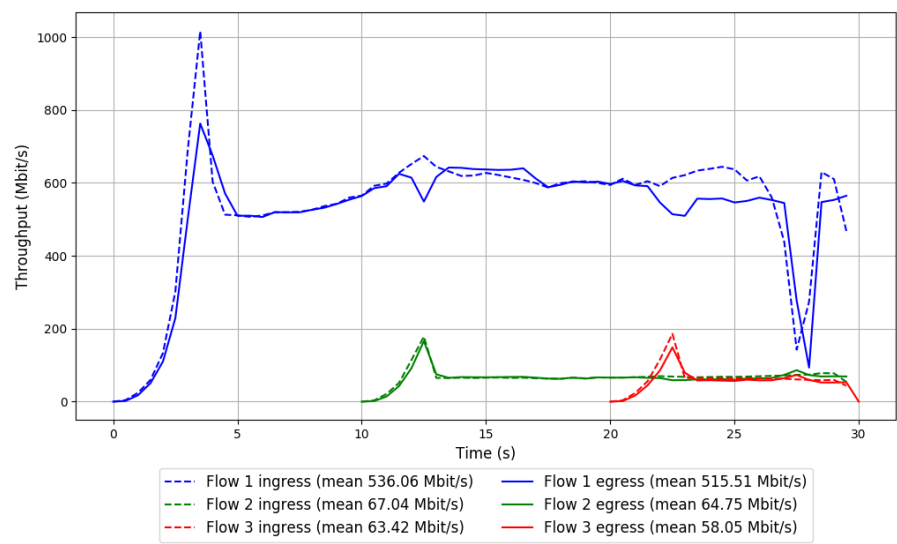
-- Flow 3:

Average throughput: 58.05 Mbit/s

95th percentile per-packet one-way delay: 251.040 ms

Loss rate: 8.45%

Run 8: Report of PCC — Data Link

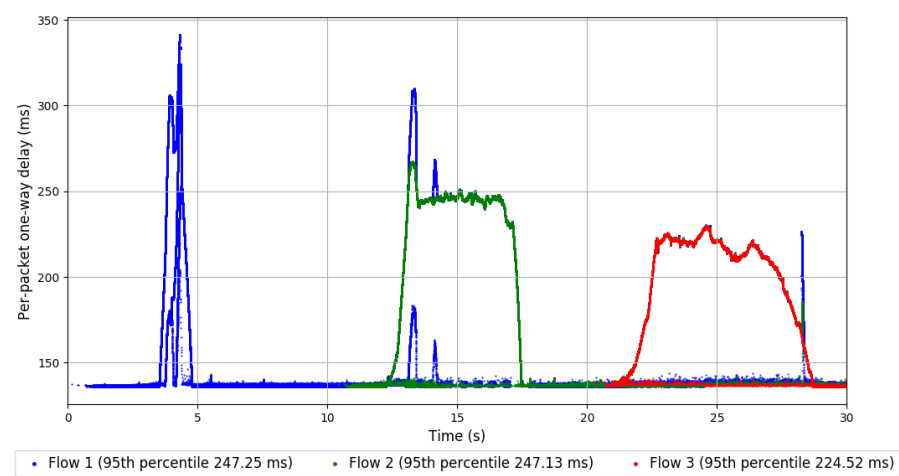
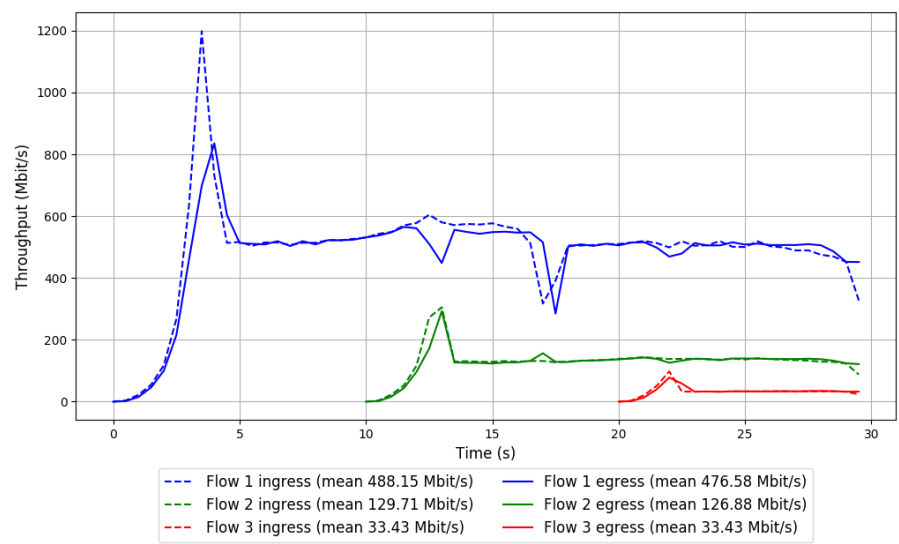


```
Run 9: Statistics of PCC

Start at: 2018-02-01 07:10:01
End at: 2018-02-01 07:10:31

# Below is generated by plot.py at 2018-02-01 08:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 571.93 Mbit/s
95th percentile per-packet one-way delay: 247.168 ms
Loss rate: 2.30%
-- Flow 1:
Average throughput: 476.58 Mbit/s
95th percentile per-packet one-way delay: 247.253 ms
Loss rate: 2.37%
-- Flow 2:
Average throughput: 126.88 Mbit/s
95th percentile per-packet one-way delay: 247.129 ms
Loss rate: 2.19%
-- Flow 3:
Average throughput: 33.43 Mbit/s
95th percentile per-packet one-way delay: 224.522 ms
Loss rate: 0.01%
```

Run 9: Report of PCC — Data Link

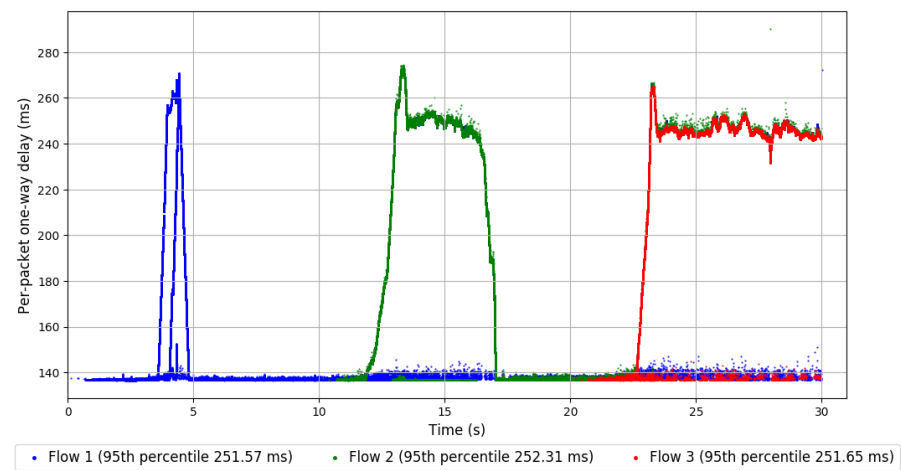
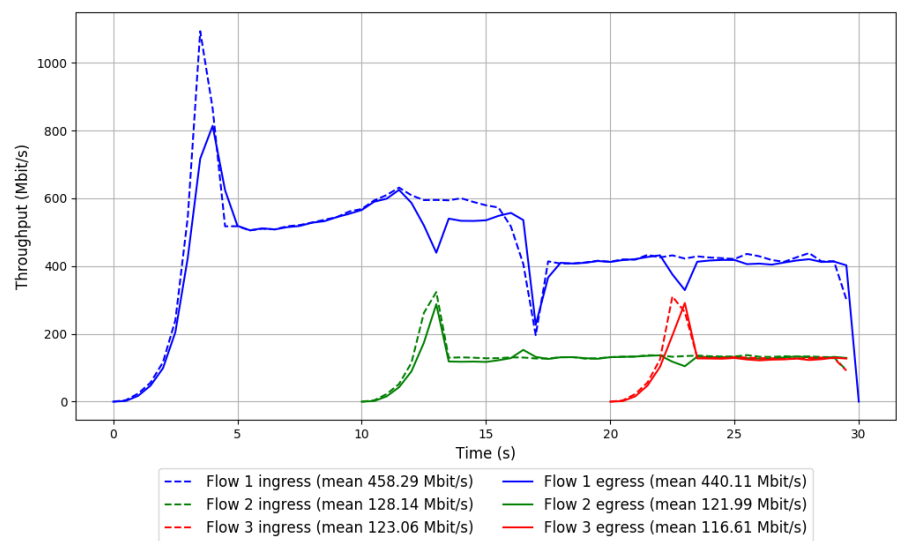


```
Run 10: Statistics of PCC

Start at: 2018-02-01 07:29:40
End at: 2018-02-01 07:30:10

# Below is generated by plot.py at 2018-02-01 08:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 559.51 Mbit/s
95th percentile per-packet one-way delay: 251.691 ms
Loss rate: 4.14%
-- Flow 1:
Average throughput: 440.11 Mbit/s
95th percentile per-packet one-way delay: 251.570 ms
Loss rate: 3.93%
-- Flow 2:
Average throughput: 121.99 Mbit/s
95th percentile per-packet one-way delay: 252.305 ms
Loss rate: 4.79%
-- Flow 3:
Average throughput: 116.61 Mbit/s
95th percentile per-packet one-way delay: 251.646 ms
Loss rate: 5.24%
```

Run 10: Report of PCC — Data Link

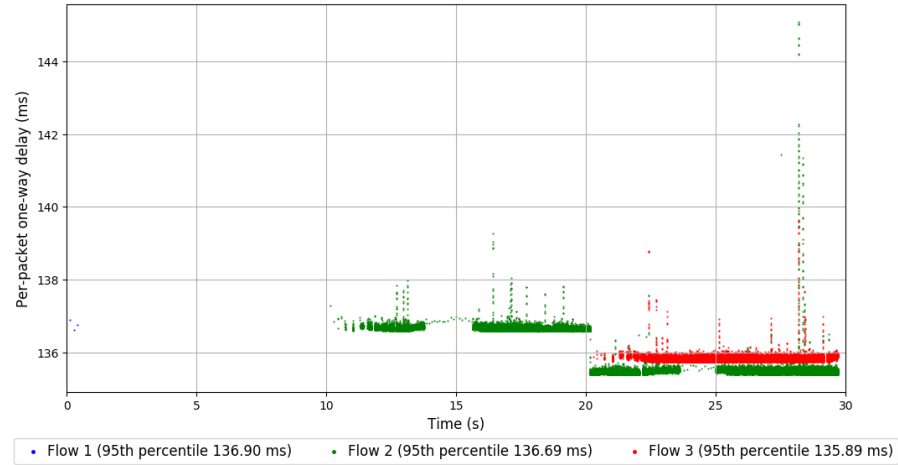
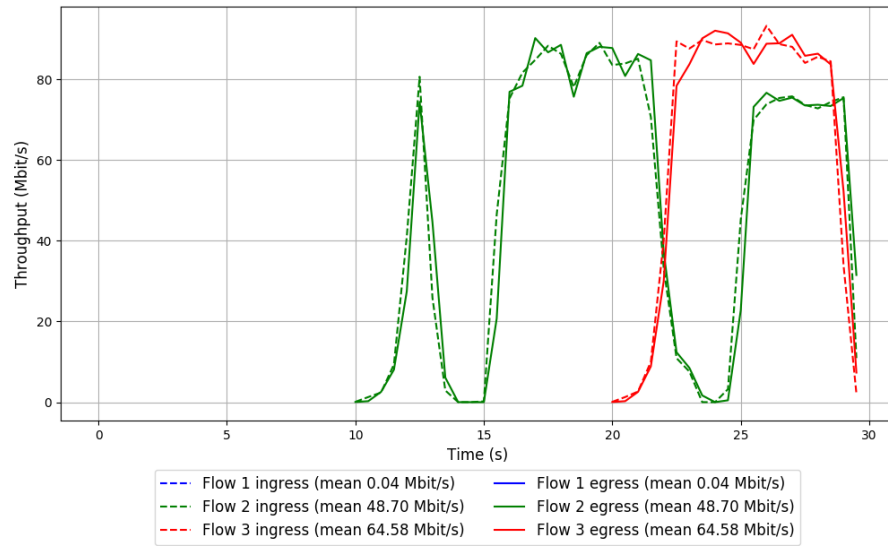


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-01 04:22:05
End at: 2018-02-01 04:22:35

# Below is generated by plot.py at 2018-02-01 08:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.08 Mbit/s
95th percentile per-packet one-way delay: 136.678 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 136.902 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 48.70 Mbit/s
95th percentile per-packet one-way delay: 136.694 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 64.58 Mbit/s
95th percentile per-packet one-way delay: 135.892 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-01 04:41:28

End at: 2018-02-01 04:41:58

Below is generated by plot.py at 2018-02-01 08:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.02 Mbit/s

95th percentile per-packet one-way delay: 136.302 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.06 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 62.49 Mbit/s

95th percentile per-packet one-way delay: 135.974 ms

Loss rate: 0.00%

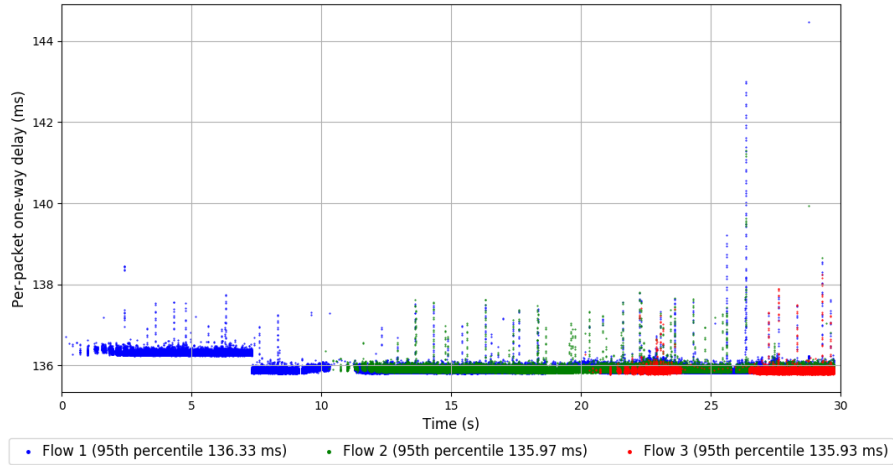
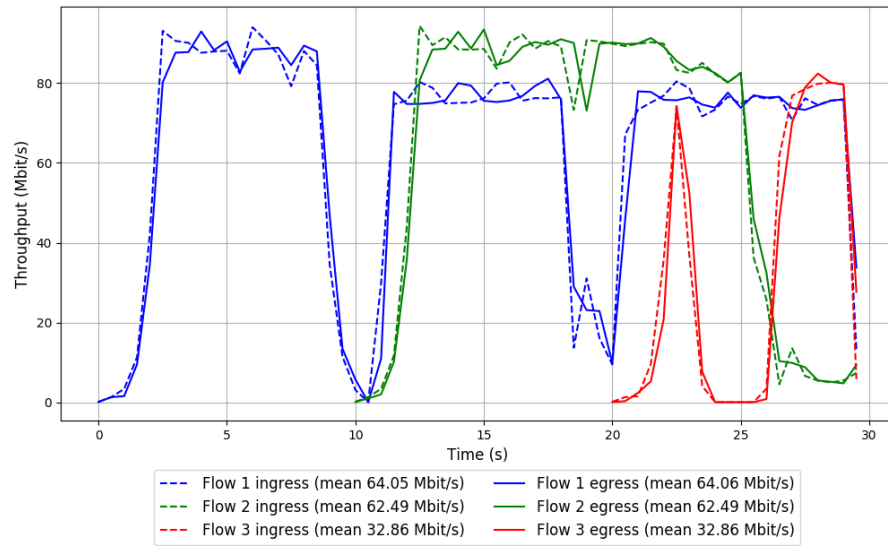
-- Flow 3:

Average throughput: 32.86 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-01 05:00:37

End at: 2018-02-01 05:01:07

Below is generated by plot.py at 2018-02-01 08:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.23 Mbit/s

95th percentile per-packet one-way delay: 136.486 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.31 Mbit/s

95th percentile per-packet one-way delay: 136.491 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.38 Mbit/s

95th percentile per-packet one-way delay: 136.491 ms

Loss rate: 0.00%

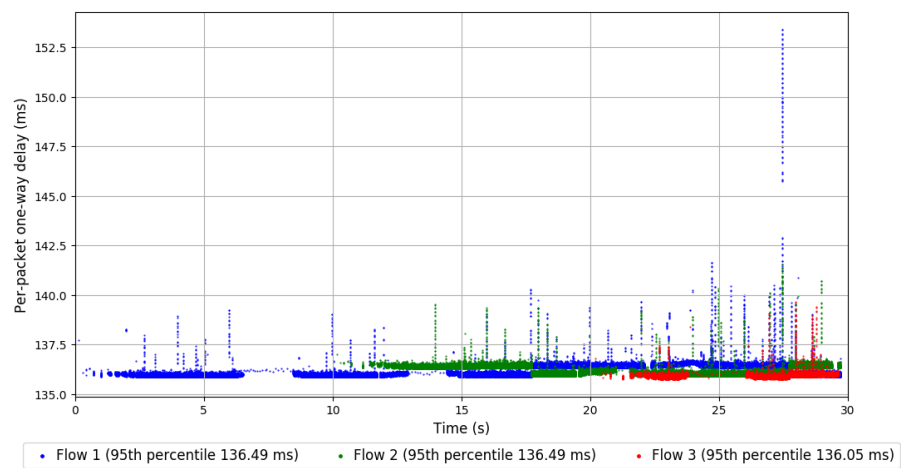
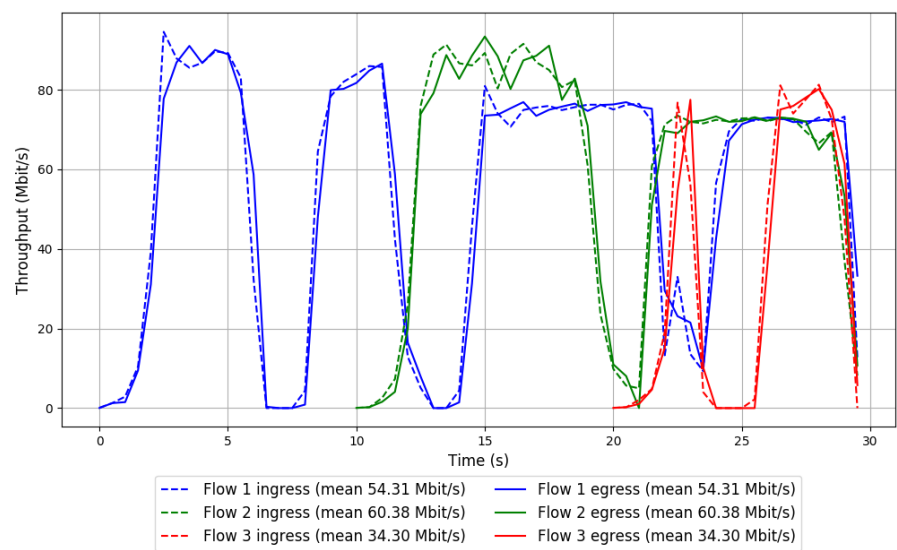
-- Flow 3:

Average throughput: 34.30 Mbit/s

95th percentile per-packet one-way delay: 136.046 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-01 05:19:13

End at: 2018-02-01 05:19:43

Below is generated by plot.py at 2018-02-01 08:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.01 Mbit/s

95th percentile per-packet one-way delay: 136.163 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 41.15 Mbit/s

95th percentile per-packet one-way delay: 136.255 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 32.54 Mbit/s

95th percentile per-packet one-way delay: 135.654 ms

Loss rate: 0.00%

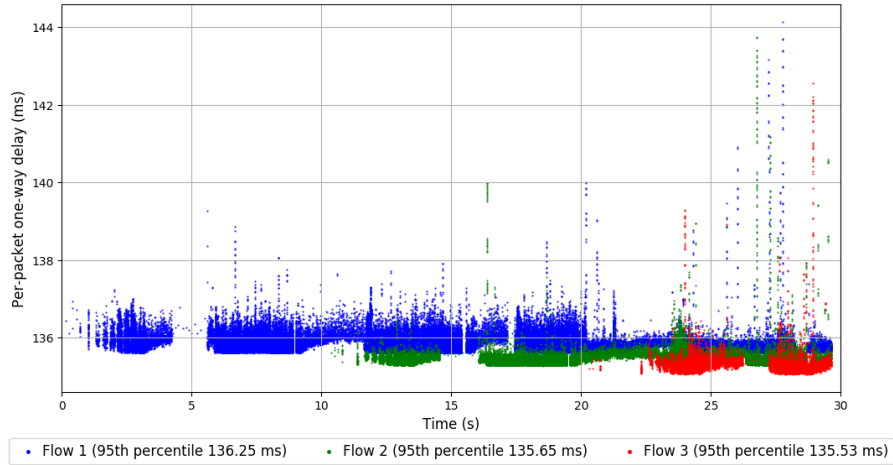
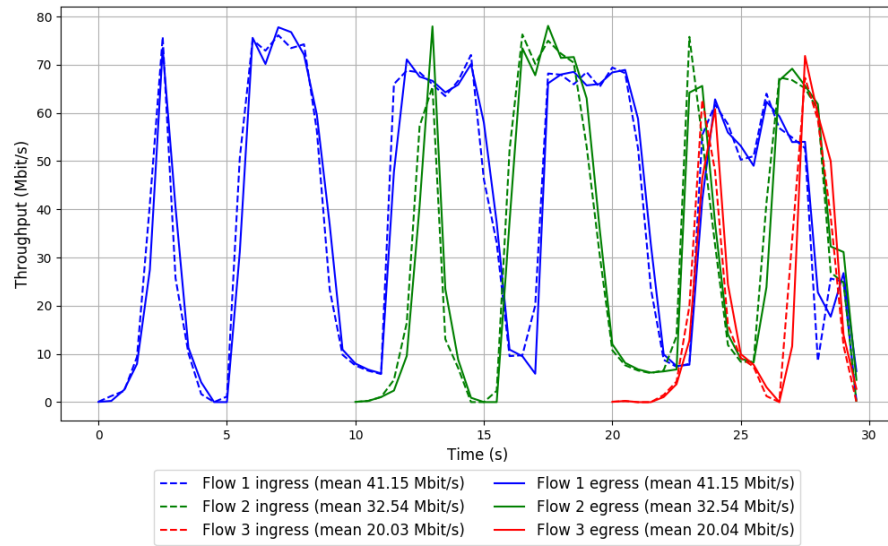
-- Flow 3:

Average throughput: 20.04 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-01 05:37:41

End at: 2018-02-01 05:38:11

Below is generated by plot.py at 2018-02-01 08:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 126.17 Mbit/s

95th percentile per-packet one-way delay: 137.015 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.09 Mbit/s

95th percentile per-packet one-way delay: 137.034 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.66 Mbit/s

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

Loss rate: 0.00%

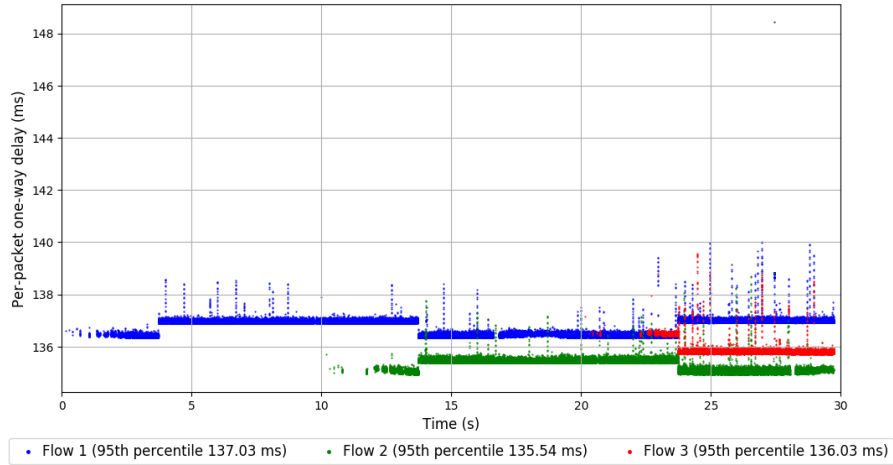
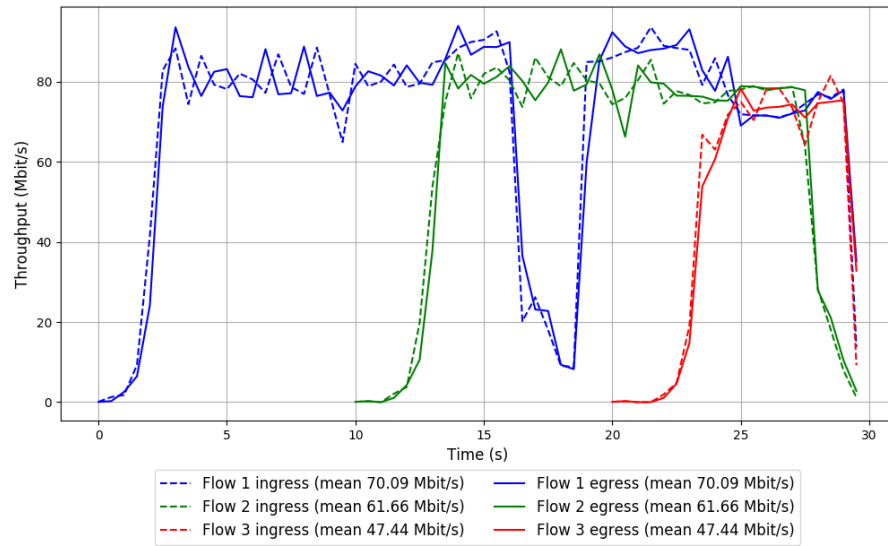
-- Flow 3:

Average throughput: 47.44 Mbit/s

95th percentile per-packet one-way delay: 136.031 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-01 05:57:10

End at: 2018-02-01 05:57:40

Below is generated by plot.py at 2018-02-01 08:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.21 Mbit/s

95th percentile per-packet one-way delay: 136.189 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.59 Mbit/s

95th percentile per-packet one-way delay: 136.044 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.44 Mbit/s

95th percentile per-packet one-way delay: 162.447 ms

Loss rate: 0.00%

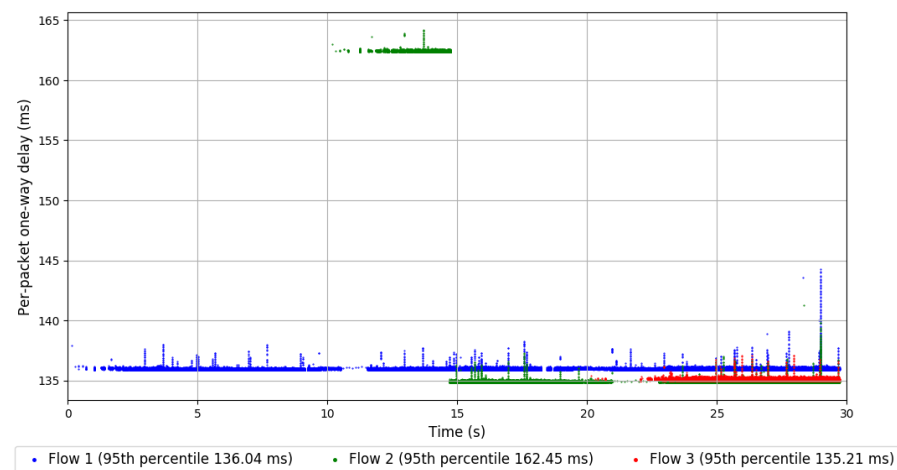
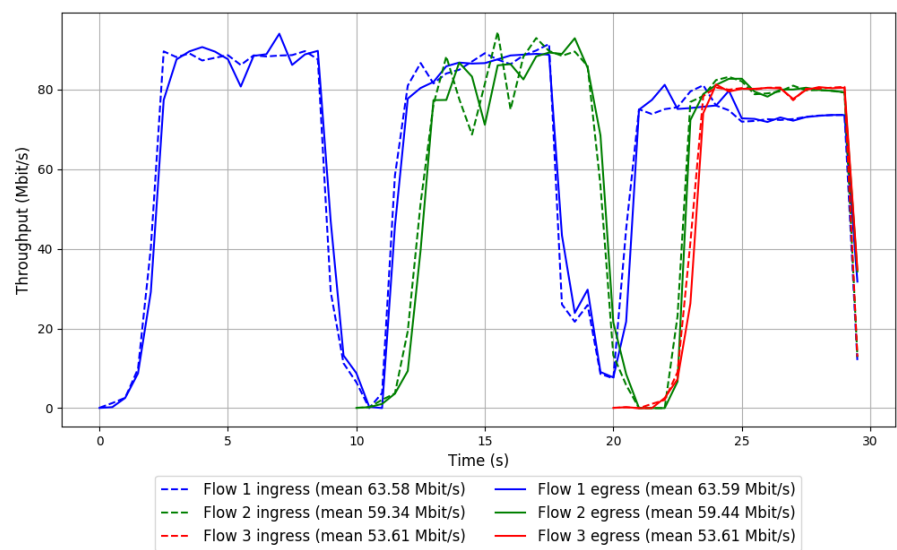
-- Flow 3:

Average throughput: 53.61 Mbit/s

95th percentile per-packet one-way delay: 135.214 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-01 06:16:25

End at: 2018-02-01 06:16:55

Below is generated by plot.py at 2018-02-01 08:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 118.20 Mbit/s

95th percentile per-packet one-way delay: 162.412 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 65.44 Mbit/s

95th percentile per-packet one-way delay: 136.662 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 62.19 Mbit/s

95th percentile per-packet one-way delay: 162.461 ms

Loss rate: 0.11%

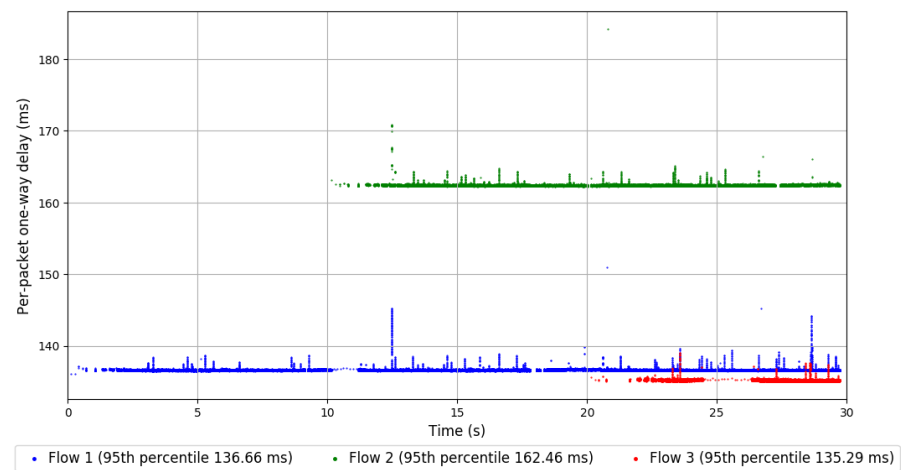
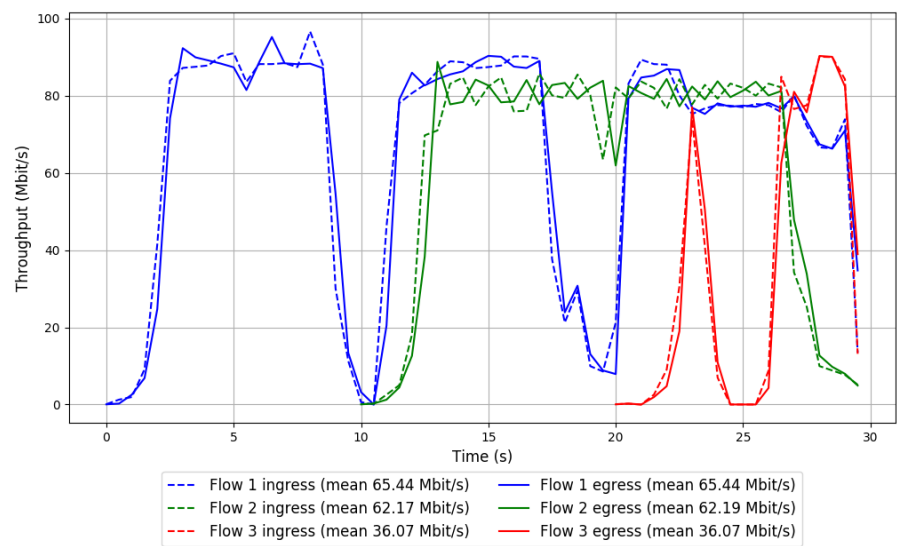
-- Flow 3:

Average throughput: 36.07 Mbit/s

95th percentile per-packet one-way delay: 135.290 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-01 06:35:49

End at: 2018-02-01 06:36:19

Below is generated by plot.py at 2018-02-01 08:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.08 Mbit/s

95th percentile per-packet one-way delay: 136.542 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 62.53 Mbit/s

95th percentile per-packet one-way delay: 136.561 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 65.93 Mbit/s

95th percentile per-packet one-way delay: 136.013 ms

Loss rate: 0.00%

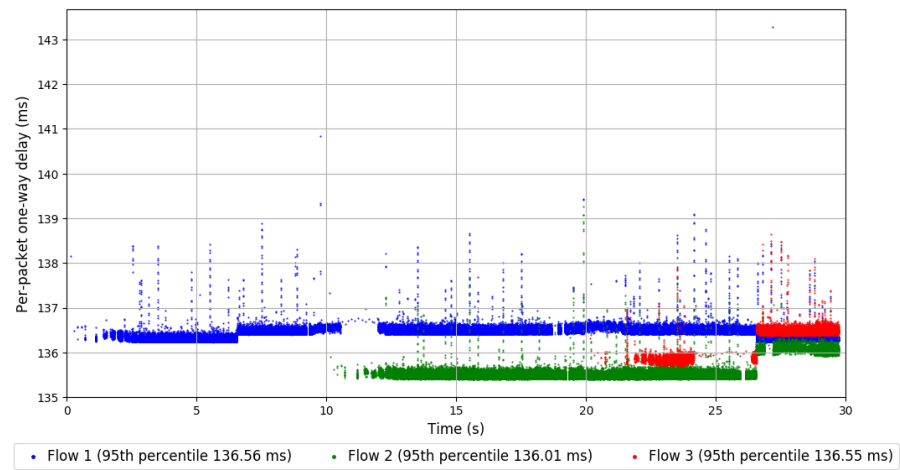
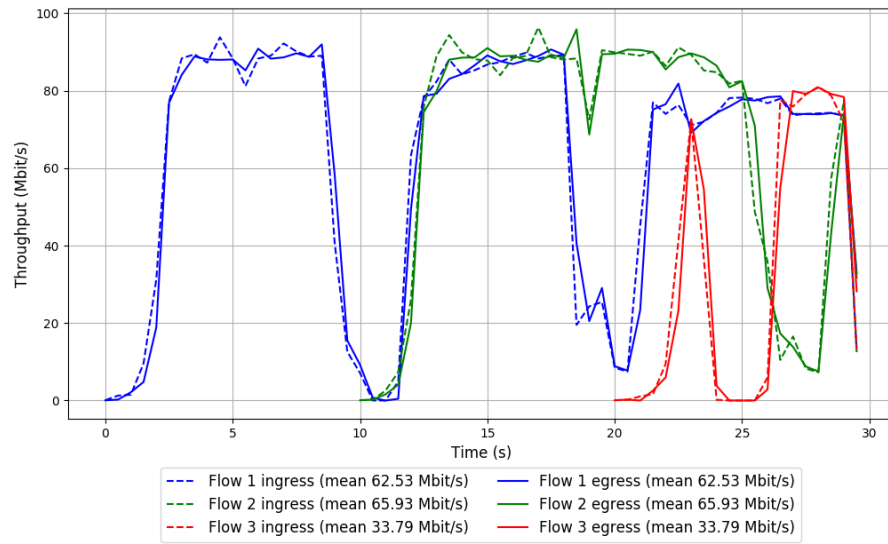
-- Flow 3:

Average throughput: 33.79 Mbit/s

95th percentile per-packet one-way delay: 136.554 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-01 06:54:38

End at: 2018-02-01 06:55:08

Below is generated by plot.py at 2018-02-01 08:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 119.61 Mbit/s

95th percentile per-packet one-way delay: 137.528 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.22 Mbit/s

95th percentile per-packet one-way delay: 137.557 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.36 Mbit/s

95th percentile per-packet one-way delay: 136.637 ms

Loss rate: 0.00%

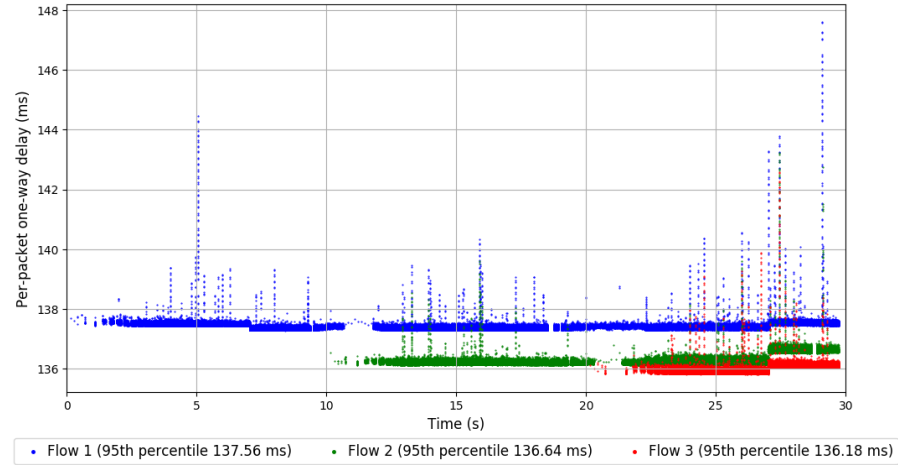
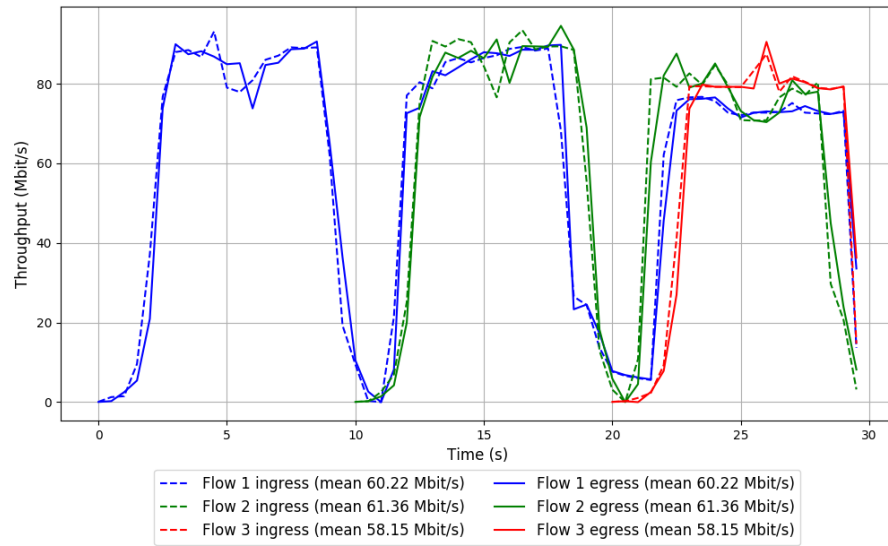
-- Flow 3:

Average throughput: 58.15 Mbit/s

95th percentile per-packet one-way delay: 136.183 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

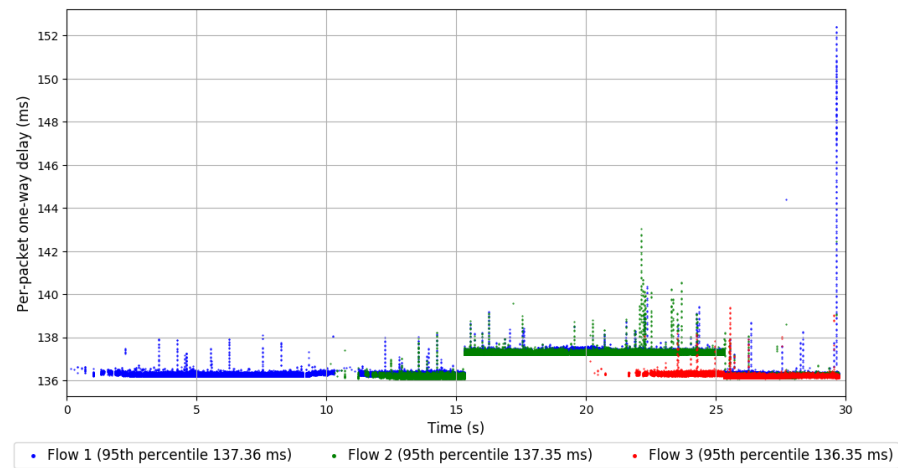
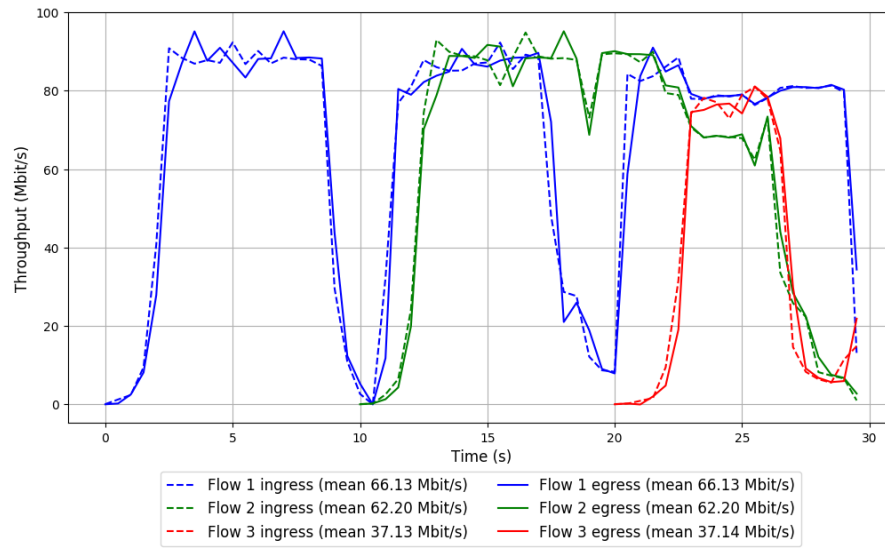


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-02-01 07:13:50
End at: 2018-02-01 07:14:20

# Below is generated by plot.py at 2018-02-01 08:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 119.29 Mbit/s
95th percentile per-packet one-way delay: 137.352 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 66.13 Mbit/s
95th percentile per-packet one-way delay: 137.357 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 62.20 Mbit/s
95th percentile per-packet one-way delay: 137.354 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 37.14 Mbit/s
95th percentile per-packet one-way delay: 136.354 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

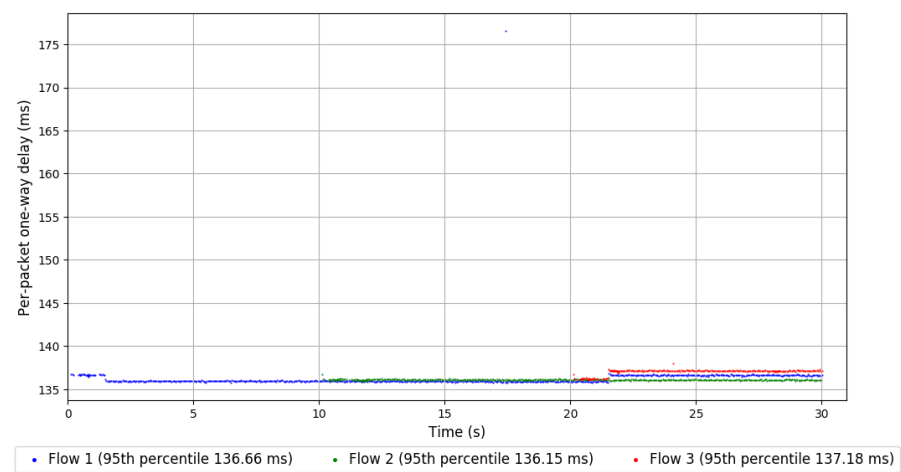
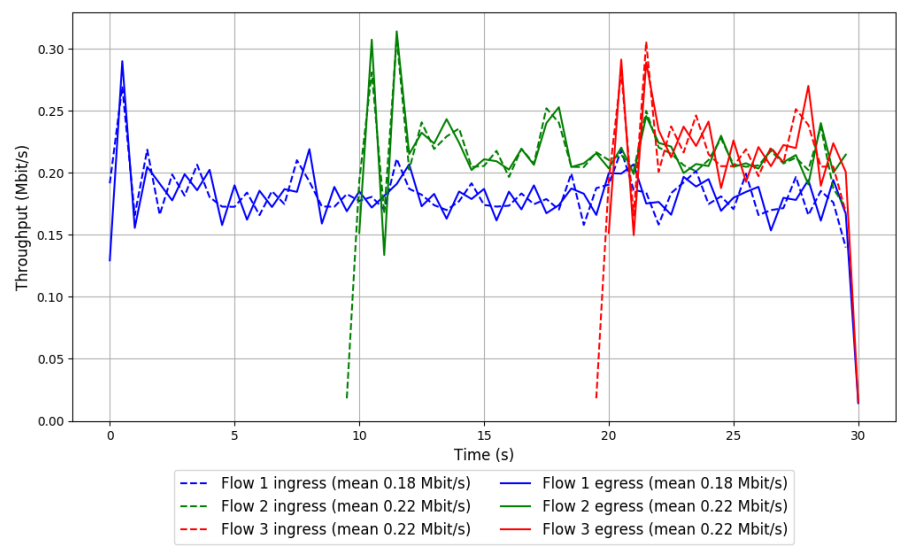


```
Run 1: Statistics of SCReAM

Start at: 2018-02-01 04:24:14
End at: 2018-02-01 04:24:44

# Below is generated by plot.py at 2018-02-01 08:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 137.135 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 136.662 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.149 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.182 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

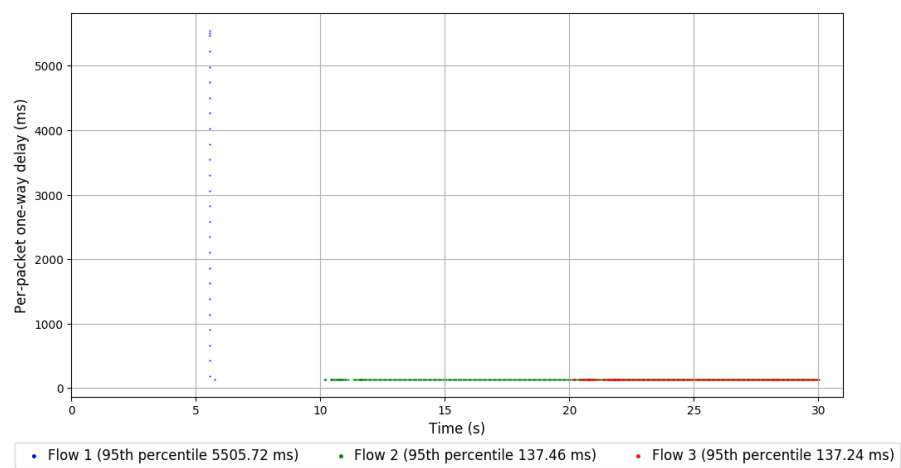
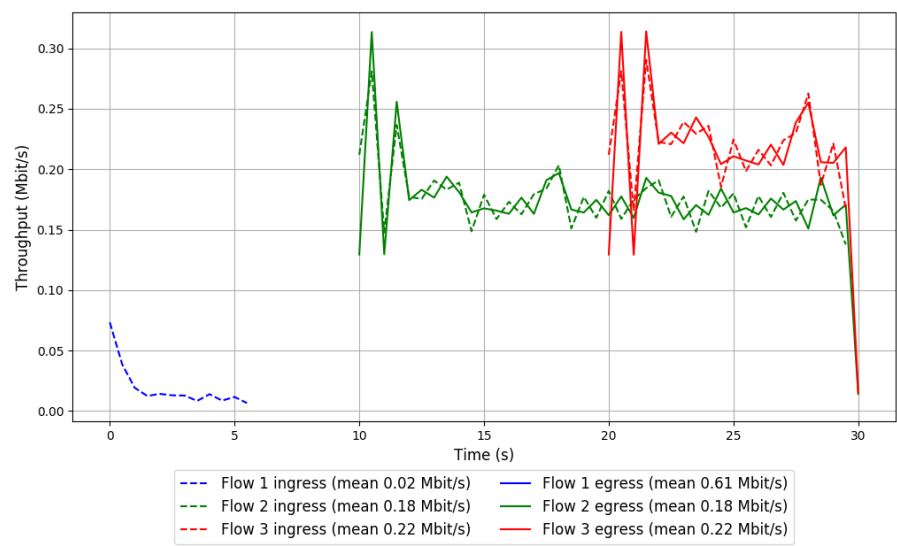


```
Run 2: Statistics of SCReAM

Start at: 2018-02-01 04:43:20
End at: 2018-02-01 04:43:50

# Below is generated by plot.py at 2018-02-01 08:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 137.465 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 5505.717 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 137.455 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.239 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

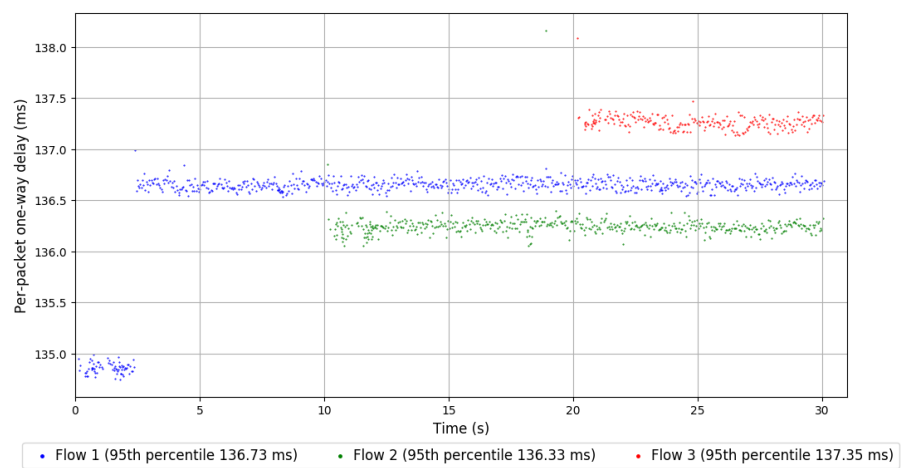
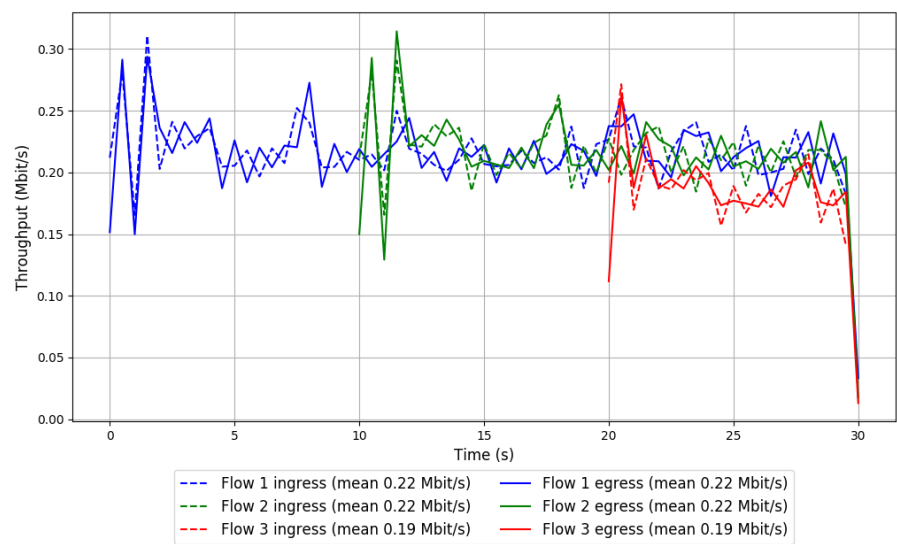


```
Run 3: Statistics of SReAM

Start at: 2018-02-01 05:02:43
End at: 2018-02-01 05:03:13

# Below is generated by plot.py at 2018-02-01 08:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 137.291 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.733 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.330 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 137.347 ms
Loss rate: 0.00%
```


Run 3: Report of SReAM — Data Link

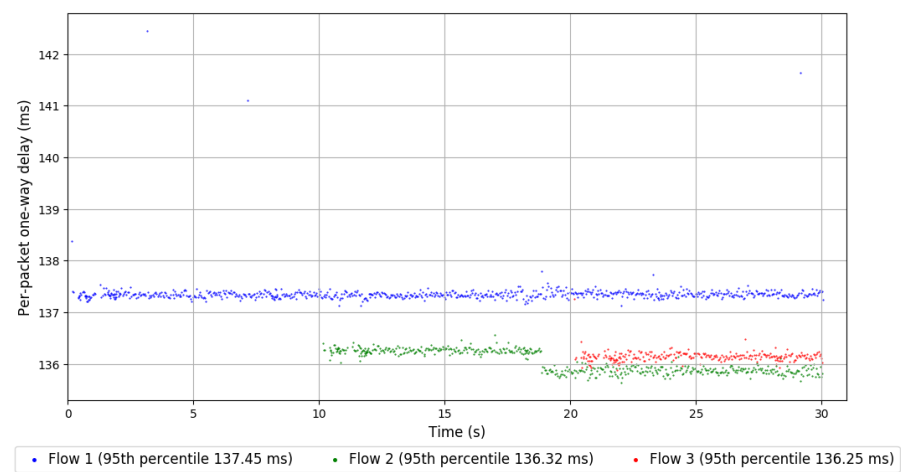
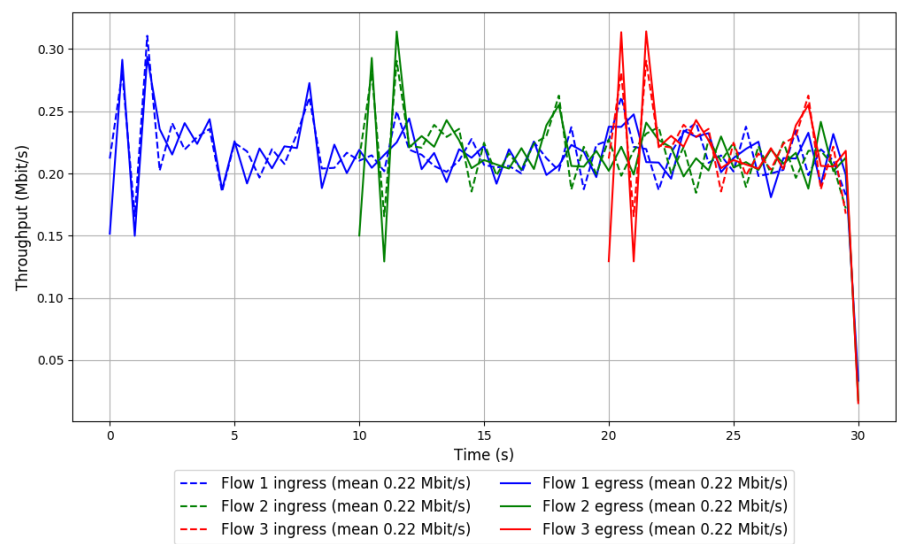


```
Run 4: Statistics of SCReAM

Start at: 2018-02-01 05:21:17
End at: 2018-02-01 05:21:47

# Below is generated by plot.py at 2018-02-01 08:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.420 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.446 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.325 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.253 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-01 05:39:49

End at: 2018-02-01 05:40:19

Below is generated by plot.py at 2018-02-01 08:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.675 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.695 ms

Loss rate: 0.00%

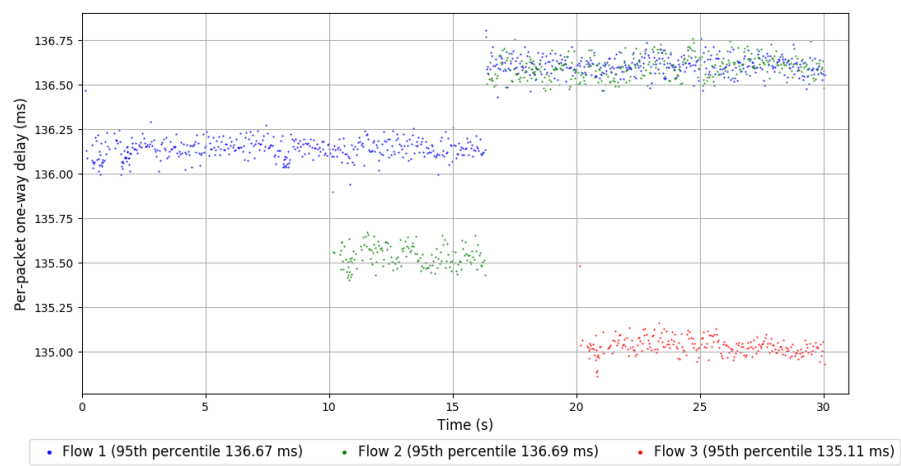
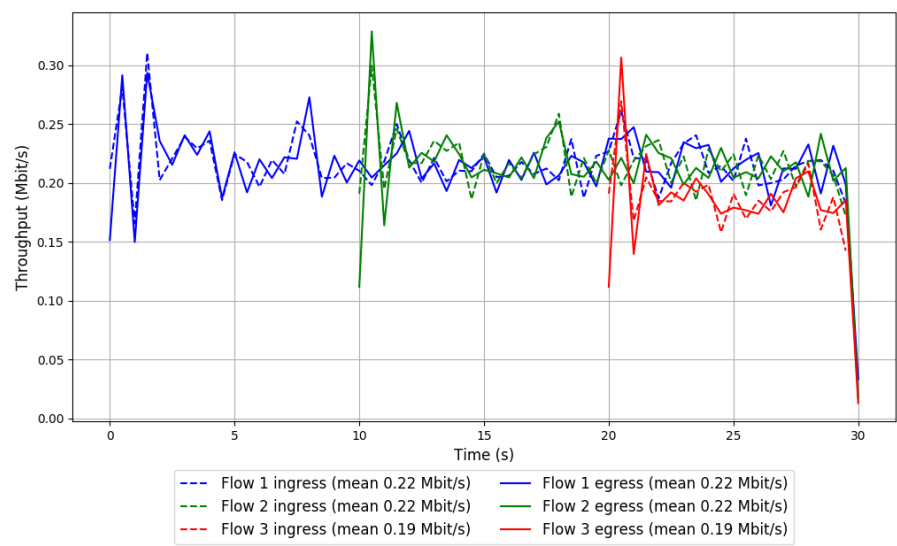
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 135.112 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-02-01 05:59:22

End at: 2018-02-01 05:59:52

Below is generated by plot.py at 2018-02-01 08:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 137.022 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.741 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.057 ms

Loss rate: 0.00%

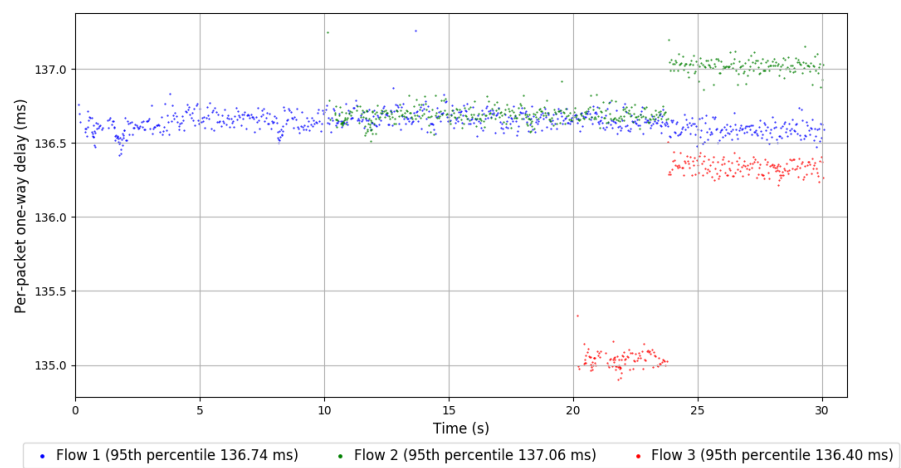
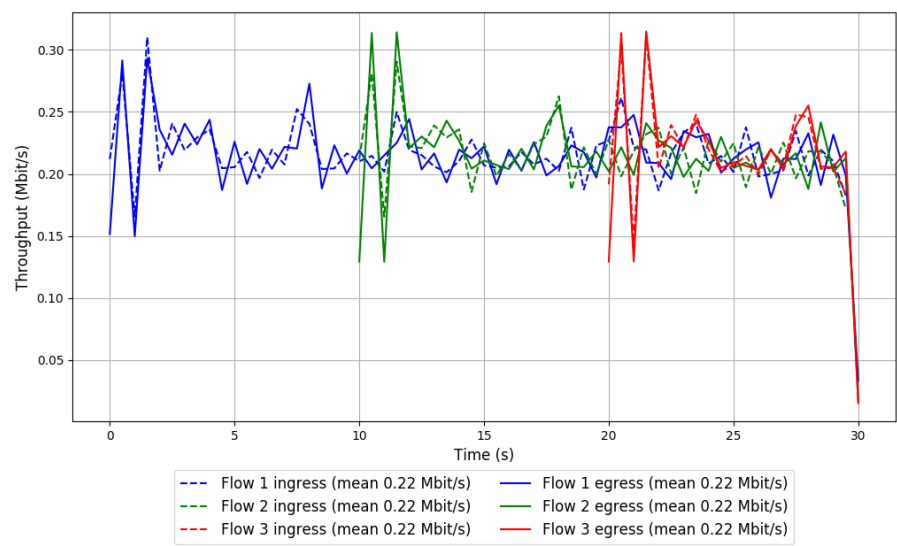
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.400 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

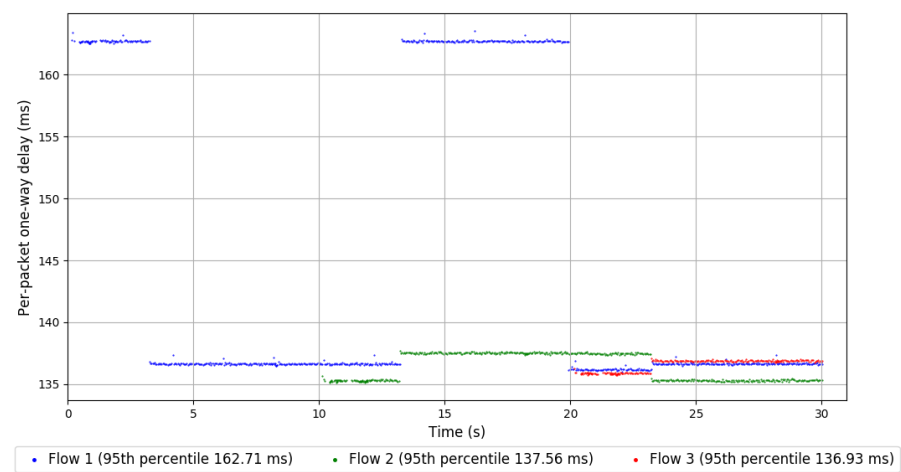
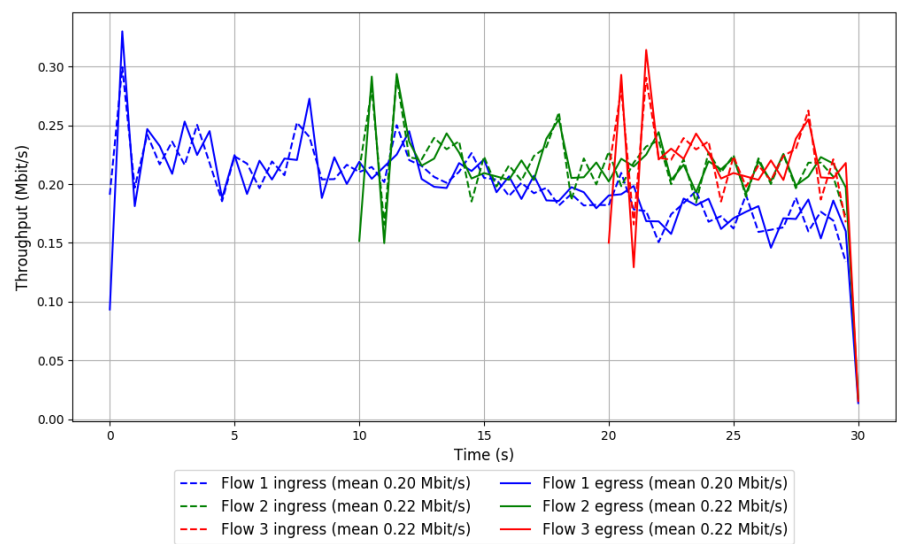


```
Run 7: Statistics of SReAM

Start at: 2018-02-01 06:18:32
End at: 2018-02-01 06:19:02

# Below is generated by plot.py at 2018-02-01 08:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 162.677 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 162.705 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.560 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.934 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link

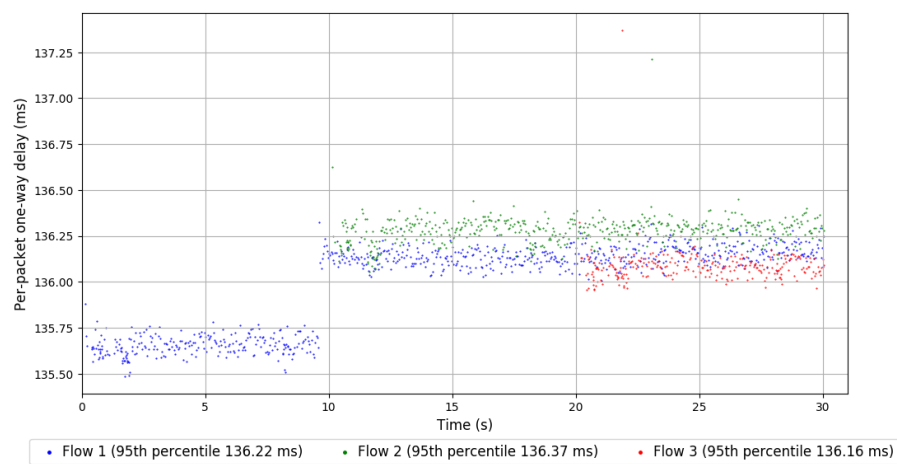
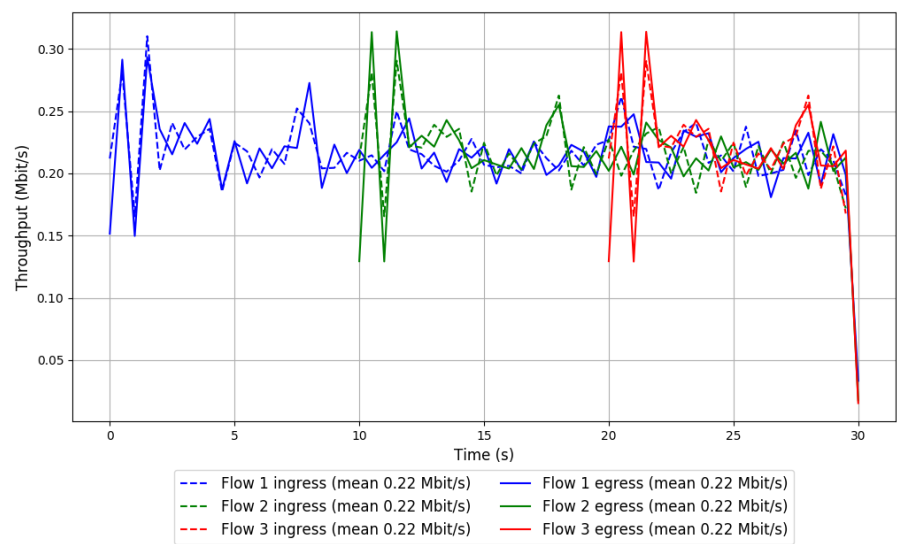


```
Run 8: Statistics of SReAM

Start at: 2018-02-01 06:37:56
End at: 2018-02-01 06:38:26

# Below is generated by plot.py at 2018-02-01 08:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.335 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.222 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.369 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.157 ms
Loss rate: 0.00%
```

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-02-01 06:56:48

End at: 2018-02-01 06:57:18

Below is generated by plot.py at 2018-02-01 08:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.518 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 137.049 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.758 ms

Loss rate: 0.00%

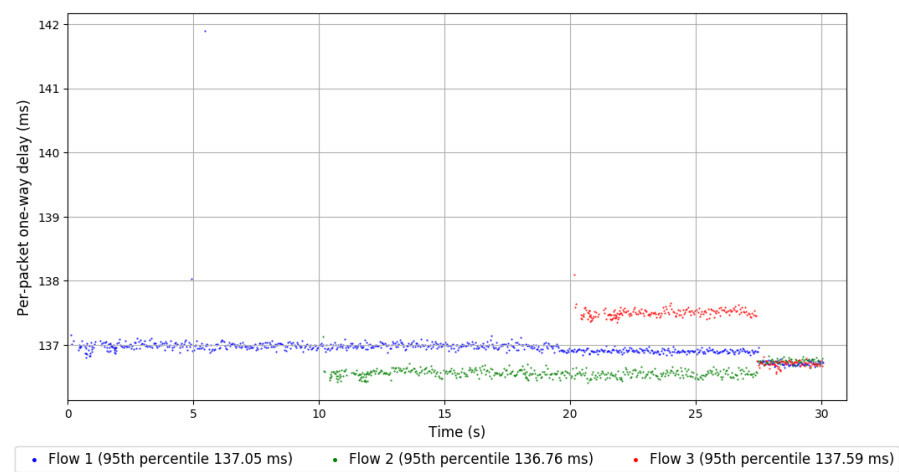
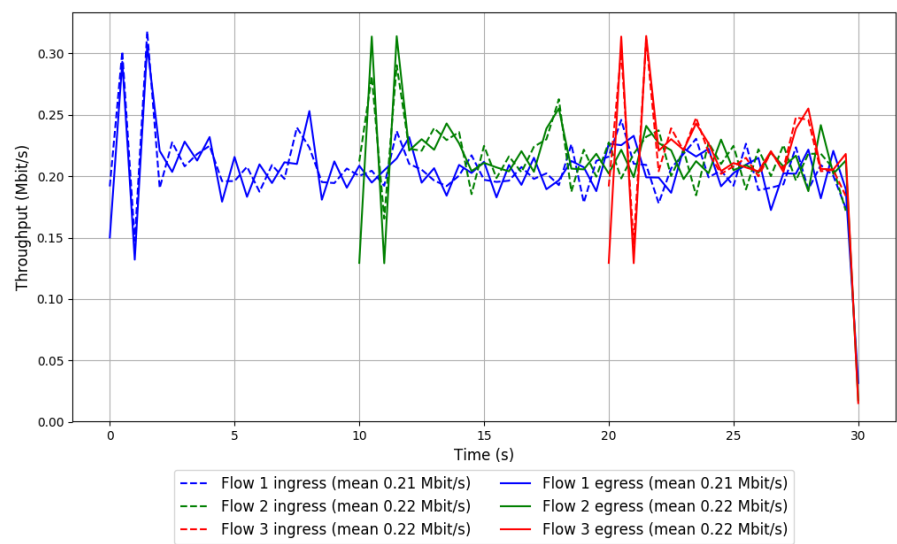
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.586 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

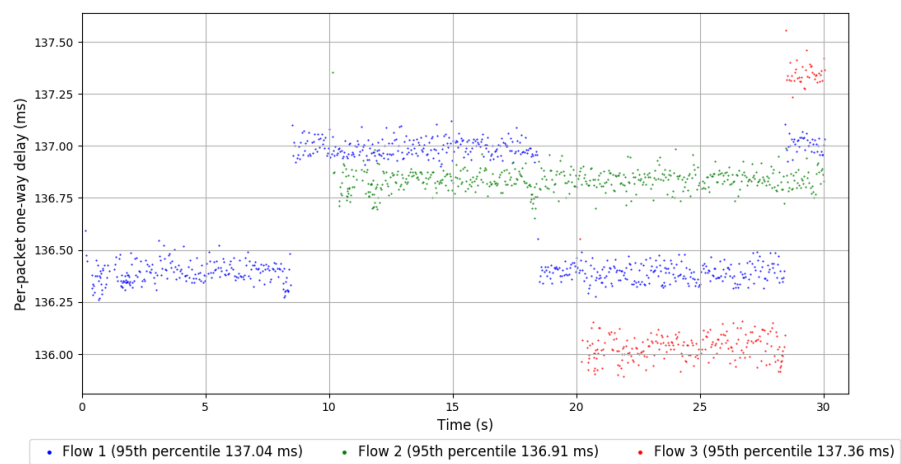
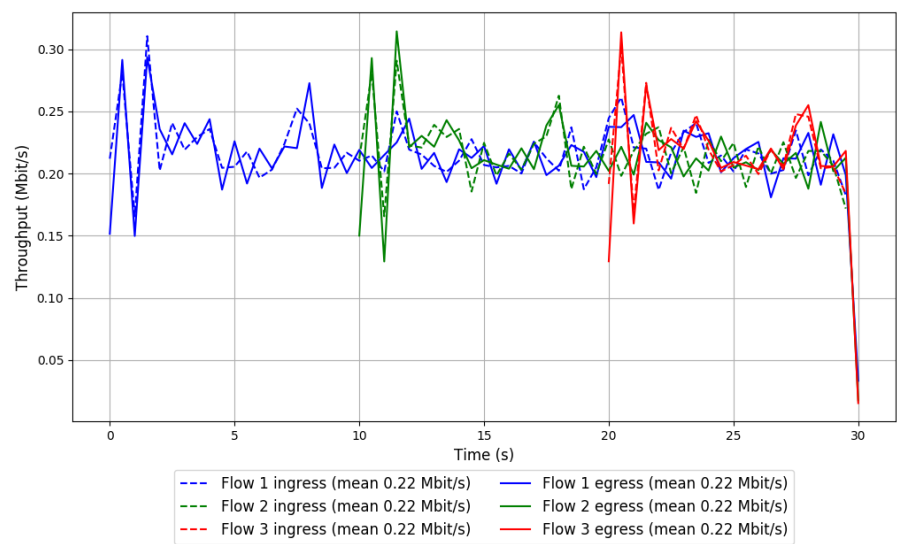


```
Run 10: Statistics of SReAM

Start at: 2018-02-01 07:15:57
End at: 2018-02-01 07:16:27

# Below is generated by plot.py at 2018-02-01 08:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.040 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.039 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.913 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.356 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

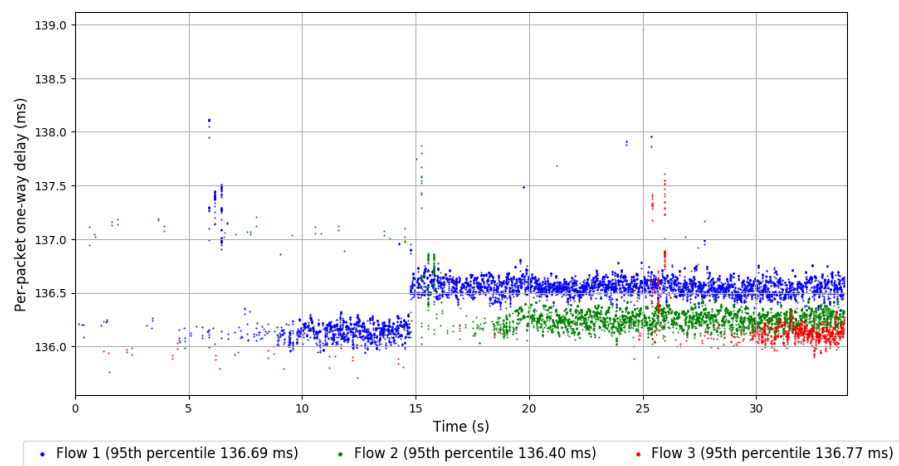
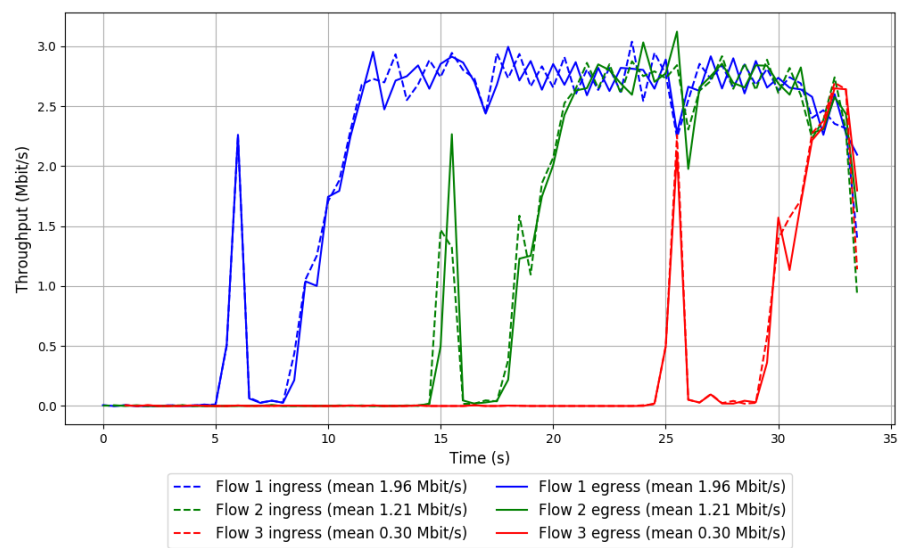


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-01 04:20:24
End at: 2018-02-01 04:20:54

# Below is generated by plot.py at 2018-02-01 08:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.44 Mbit/s
95th percentile per-packet one-way delay: 136.672 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 136.690 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 136.398 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 136.770 ms
Loss rate: 0.74%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-01 04:39:50

End at: 2018-02-01 04:40:20

Below is generated by plot.py at 2018-02-01 08:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.59 Mbit/s

95th percentile per-packet one-way delay: 137.161 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 137.189 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 136.598 ms

Loss rate: 0.00%

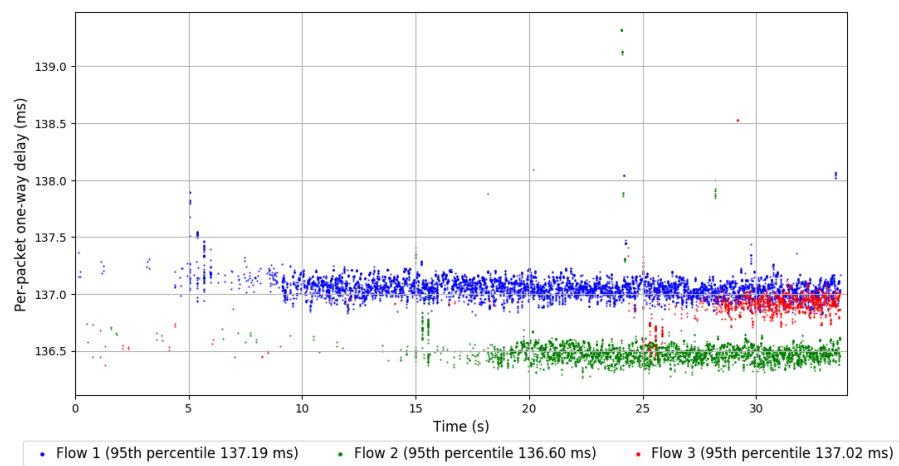
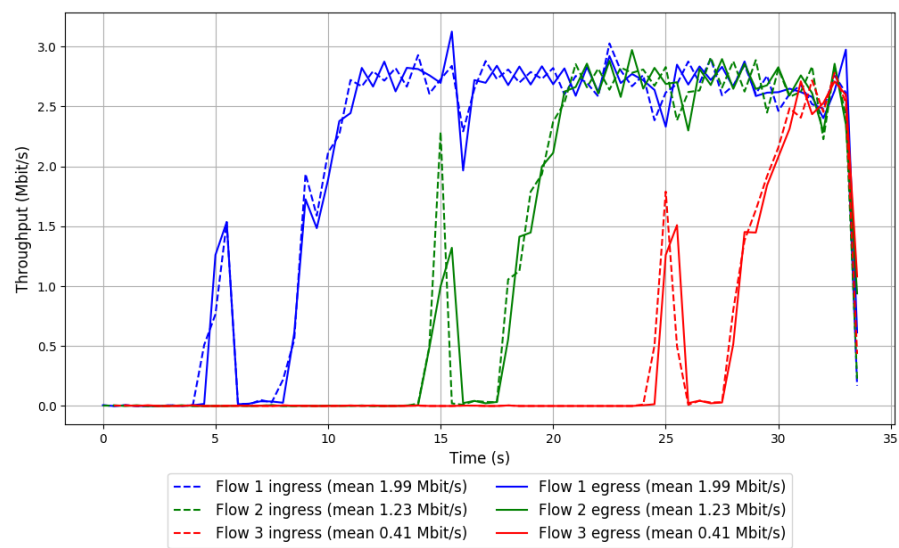
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 137.022 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-01 04:59:00

End at: 2018-02-01 04:59:30

Below is generated by plot.py at 2018-02-01 08:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.58 Mbit/s

95th percentile per-packet one-way delay: 137.338 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 137.358 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 136.480 ms

Loss rate: 0.00%

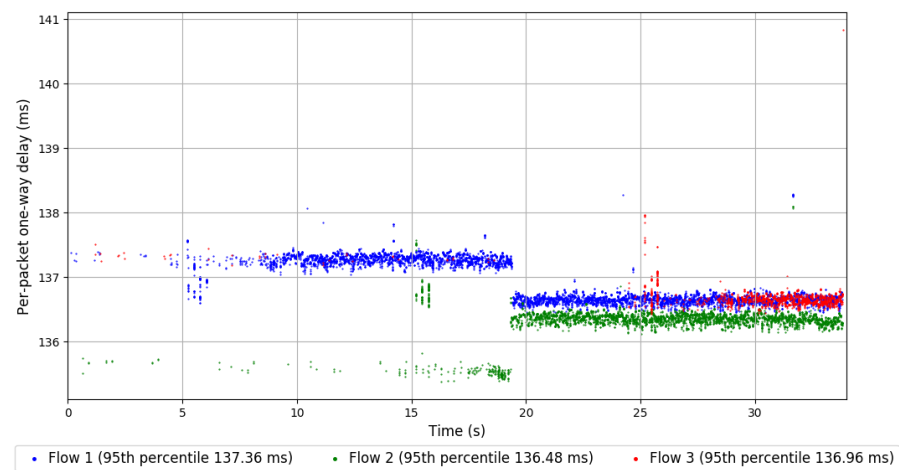
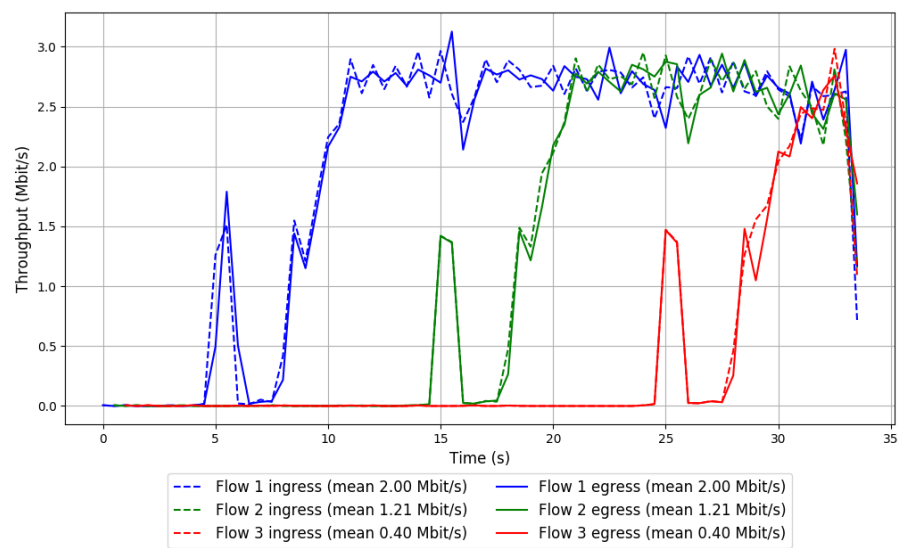
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.961 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-01 05:17:35

End at: 2018-02-01 05:18:05

Below is generated by plot.py at 2018-02-01 08:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.31 Mbit/s

95th percentile per-packet one-way delay: 137.796 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 137.340 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.15 Mbit/s

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

Loss rate: 0.02%

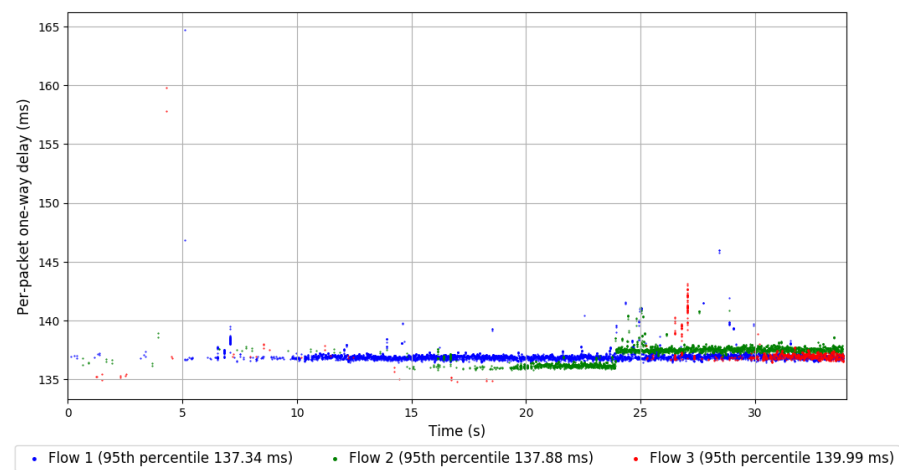
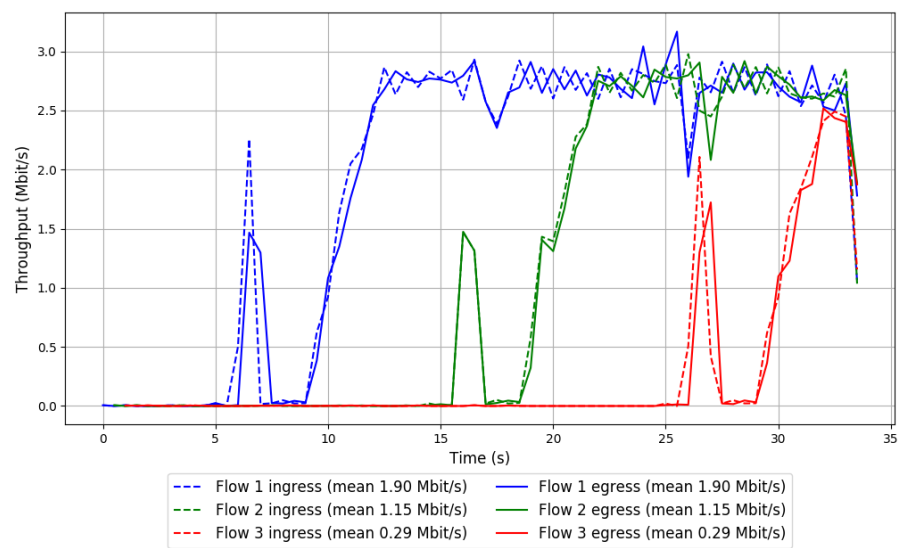
-- Flow 3:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 139.988 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-01 05:36:03

End at: 2018-02-01 05:36:33

Below is generated by plot.py at 2018-02-01 08:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.61 Mbit/s

95th percentile per-packet one-way delay: 136.613 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 134.829 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.23 Mbit/s

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

Loss rate: 0.00%

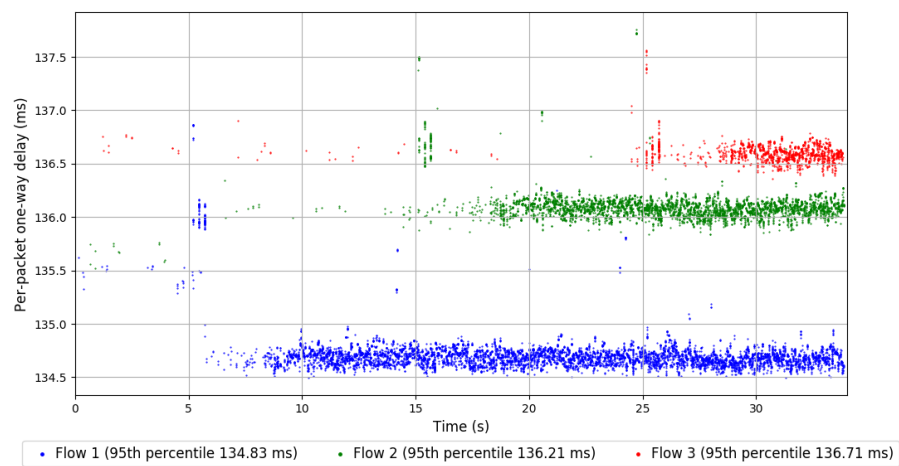
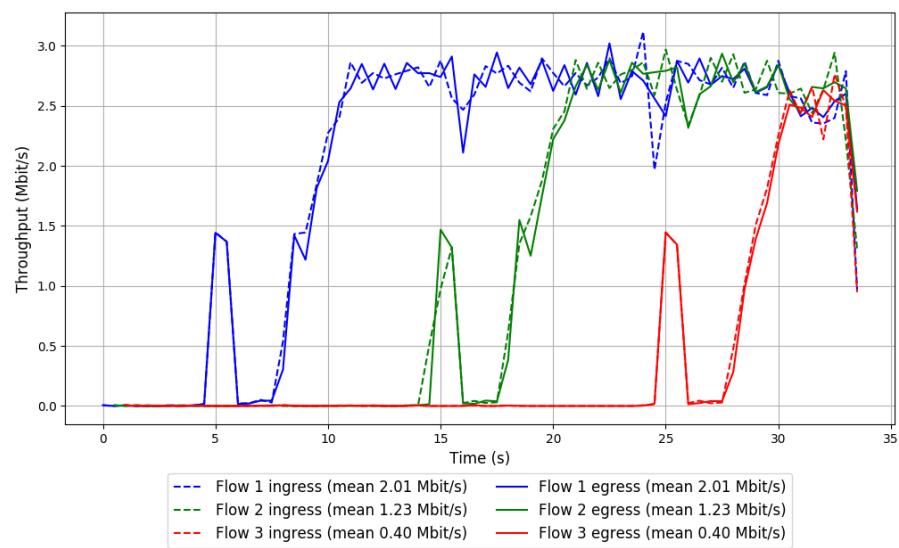
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.710 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-01 05:55:32

End at: 2018-02-01 05:56:02

Below is generated by plot.py at 2018-02-01 08:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.61 Mbit/s

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

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 136.535 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 136.690 ms

Loss rate: 0.00%

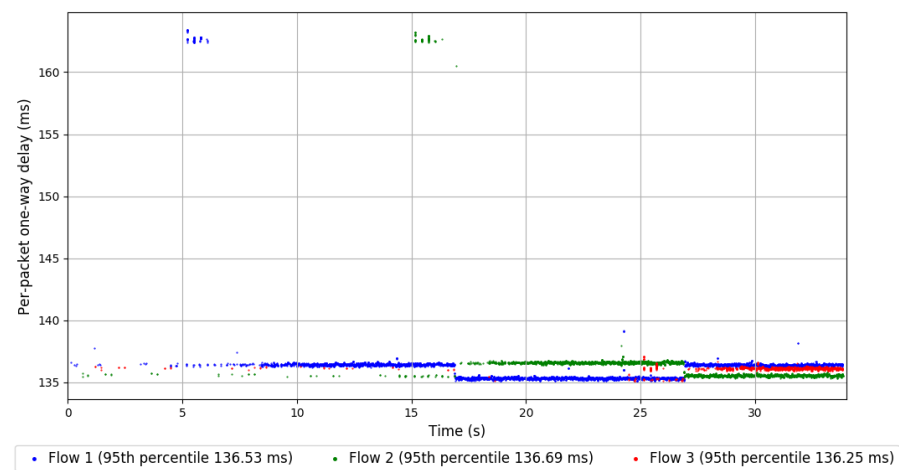
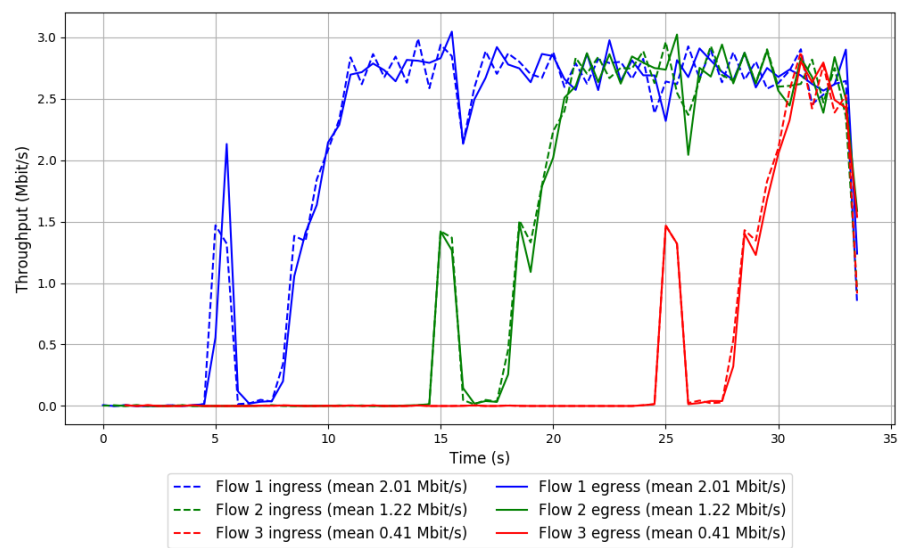
-- Flow 3:

Average throughput: 0.41 Mbit/s

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

Loss rate: 0.07%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-01 06:14:47

End at: 2018-02-01 06:15:17

Below is generated by plot.py at 2018-02-01 08:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.59 Mbit/s

95th percentile per-packet one-way delay: 137.511 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 137.546 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 136.162 ms

Loss rate: 0.00%

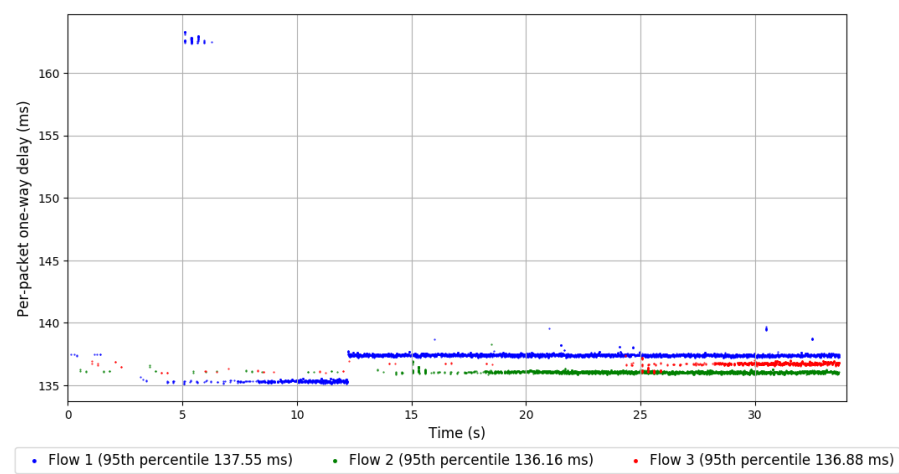
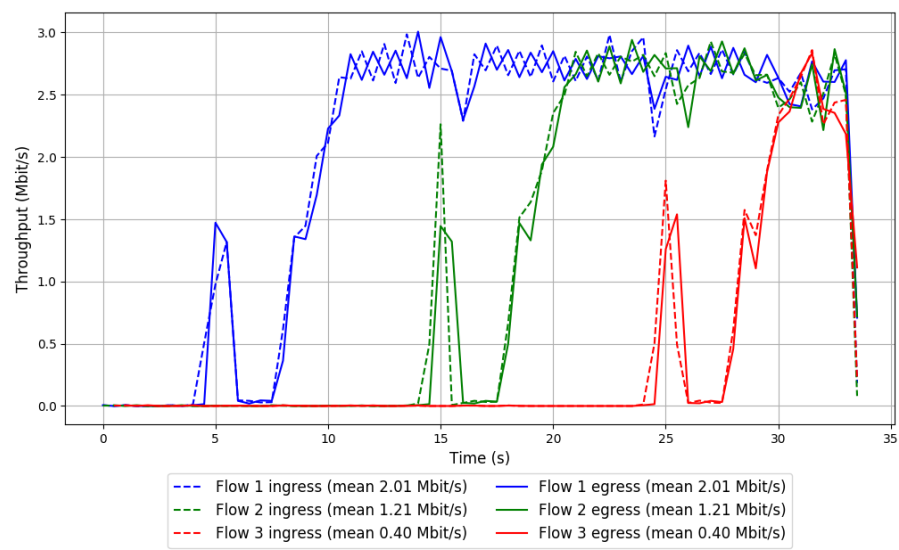
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.884 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-01 06:34:11

End at: 2018-02-01 06:34:41

Below is generated by plot.py at 2018-02-01 08:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.91 Mbit/s

95th percentile per-packet one-way delay: 136.743 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 136.759 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 136.080 ms

Loss rate: 0.00%

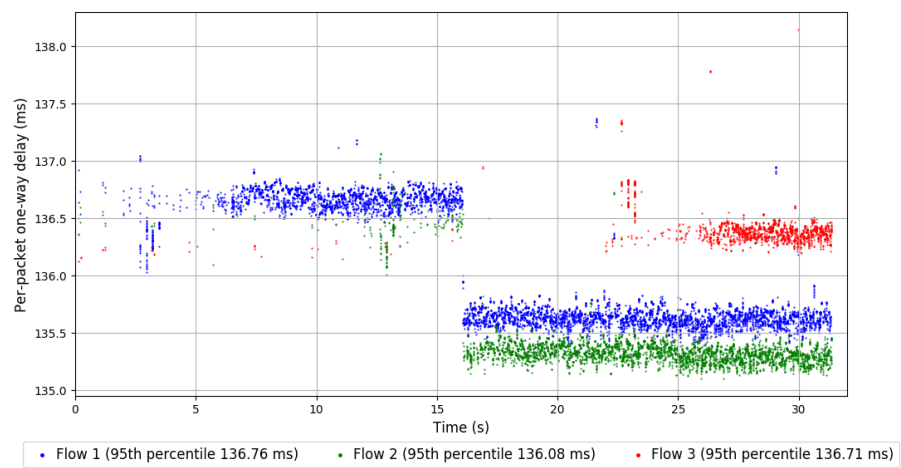
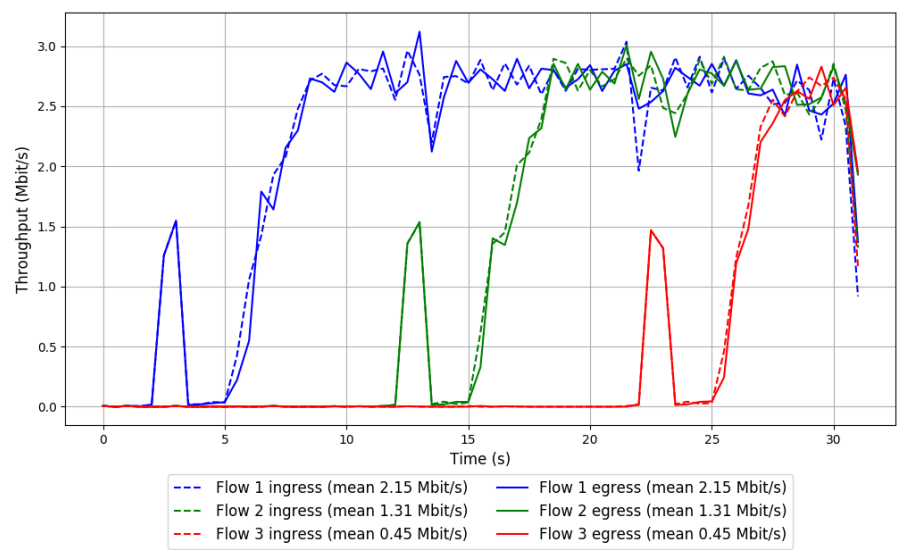
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 136.708 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-01 06:53:00

End at: 2018-02-01 06:53:30

Below is generated by plot.py at 2018-02-01 08:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.74 Mbit/s

95th percentile per-packet one-way delay: 136.920 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 136.937 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 136.882 ms

Loss rate: 0.00%

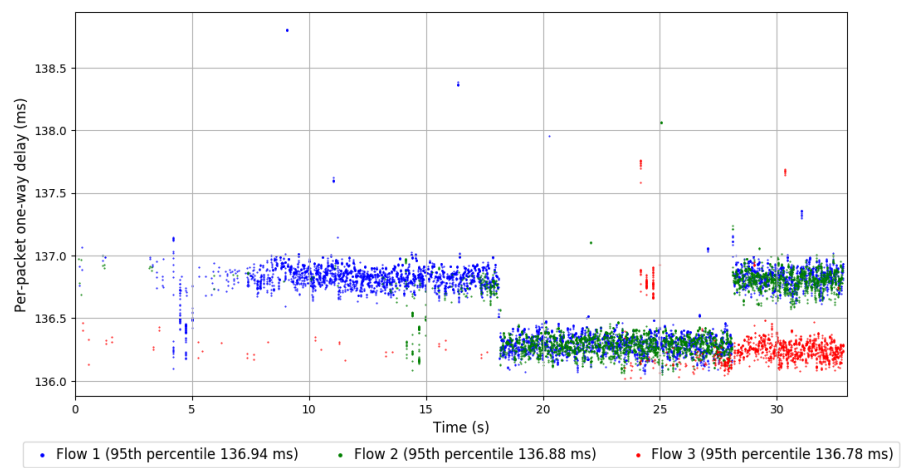
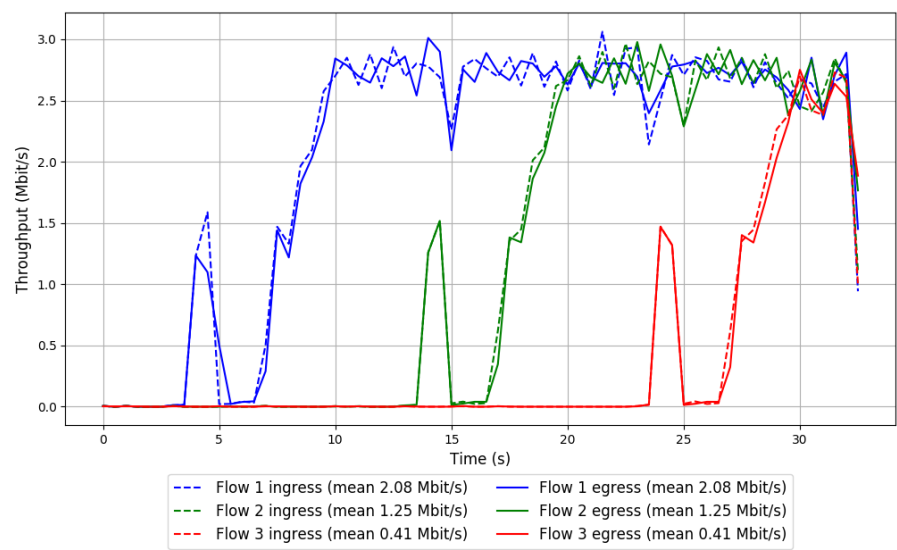
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.776 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-01 07:12:12

End at: 2018-02-01 07:12:42

Below is generated by plot.py at 2018-02-01 08:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.62 Mbit/s

95th percentile per-packet one-way delay: 137.769 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 137.811 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 137.381 ms

Loss rate: 0.00%

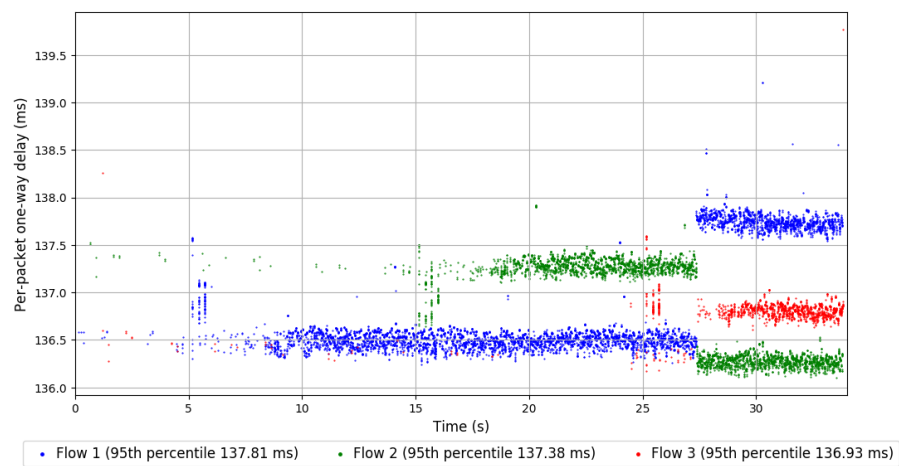
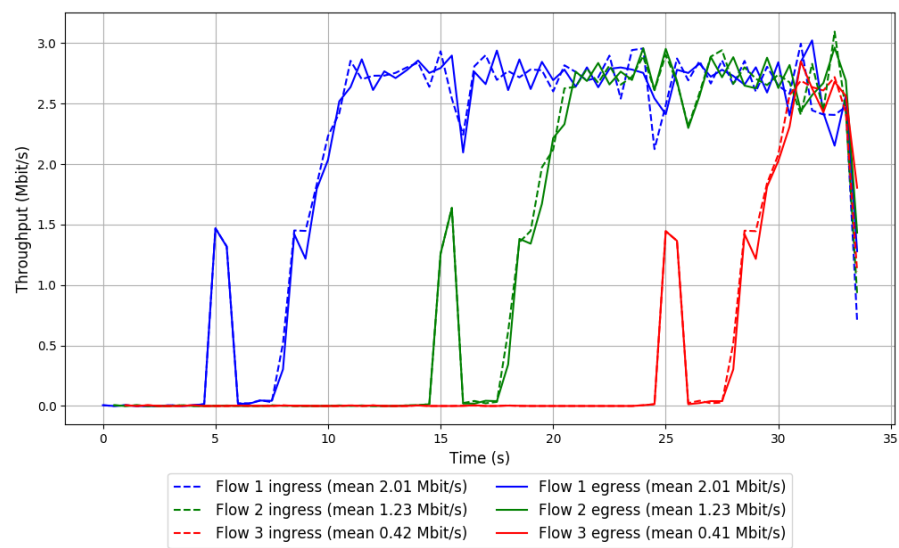
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.932 ms

Loss rate: 0.21%

Run 10: Report of WebRTC media — Data Link

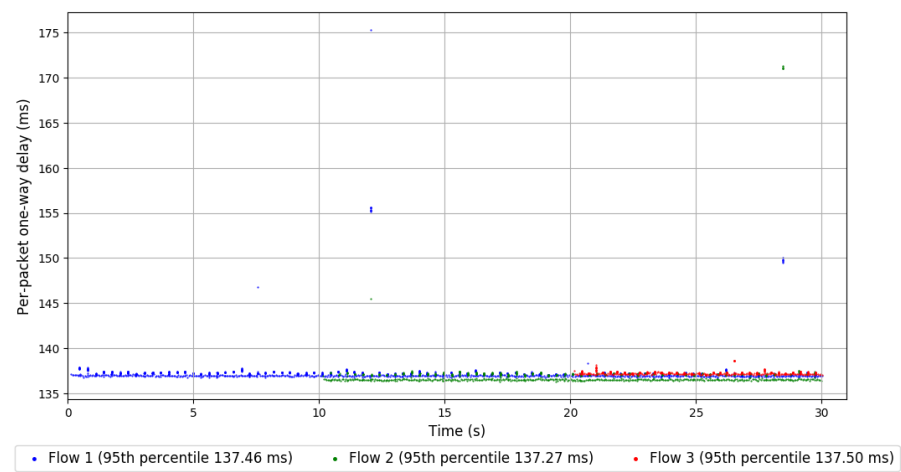
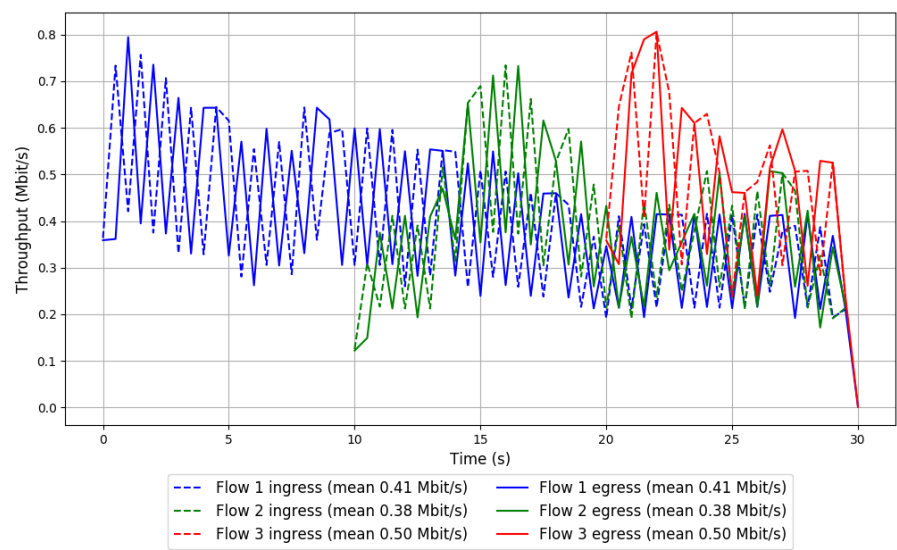


```
Run 1: Statistics of Sprout

Start at: 2018-02-01 04:21:15
End at: 2018-02-01 04:21:45

# Below is generated by plot.py at 2018-02-01 08:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.82 Mbit/s
95th percentile per-packet one-way delay: 137.408 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 137.463 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 137.272 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 137.501 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-01 04:40:39

End at: 2018-02-01 04:41:09

Below is generated by plot.py at 2018-02-01 08:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.84 Mbit/s

95th percentile per-packet one-way delay: 137.335 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 137.331 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 137.222 ms

Loss rate: 0.00%

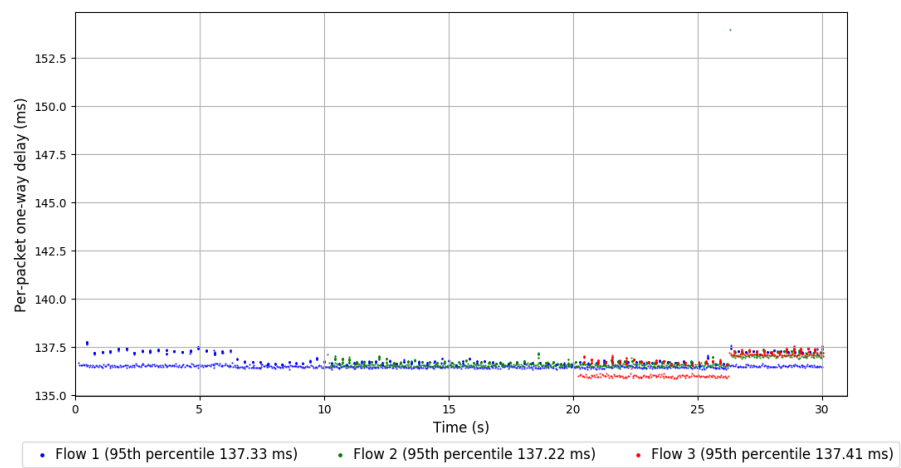
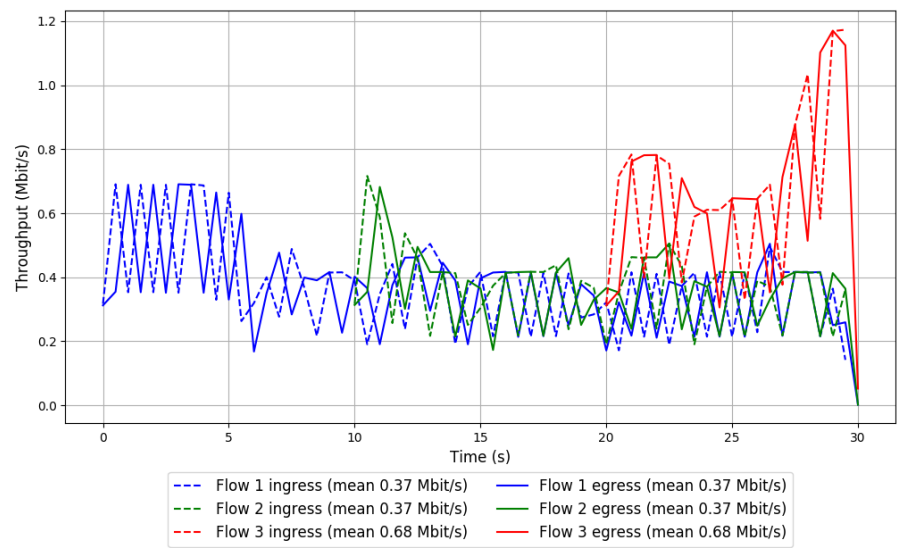
-- Flow 3:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 137.412 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-01 04:59:49

End at: 2018-02-01 05:00:19

Below is generated by plot.py at 2018-02-01 08:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.83 Mbit/s

95th percentile per-packet one-way delay: 137.175 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 137.213 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 137.008 ms

Loss rate: 0.00%

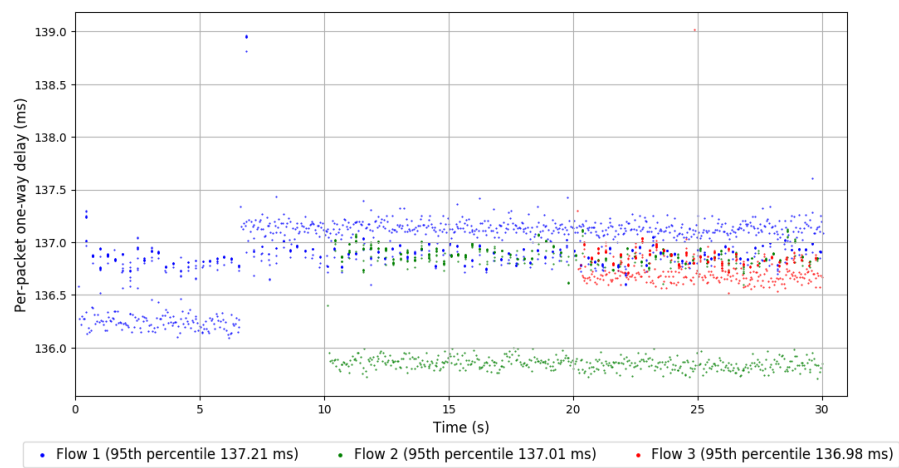
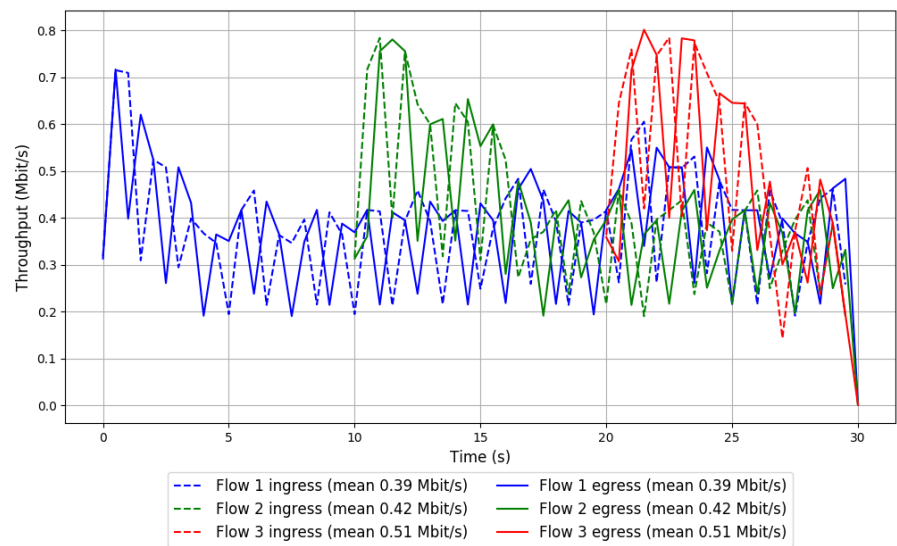
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 136.979 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-01 05:18:25

End at: 2018-02-01 05:18:55

Below is generated by plot.py at 2018-02-01 08:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.80 Mbit/s

95th percentile per-packet one-way delay: 137.661 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 138.390 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 137.156 ms

Loss rate: 0.00%

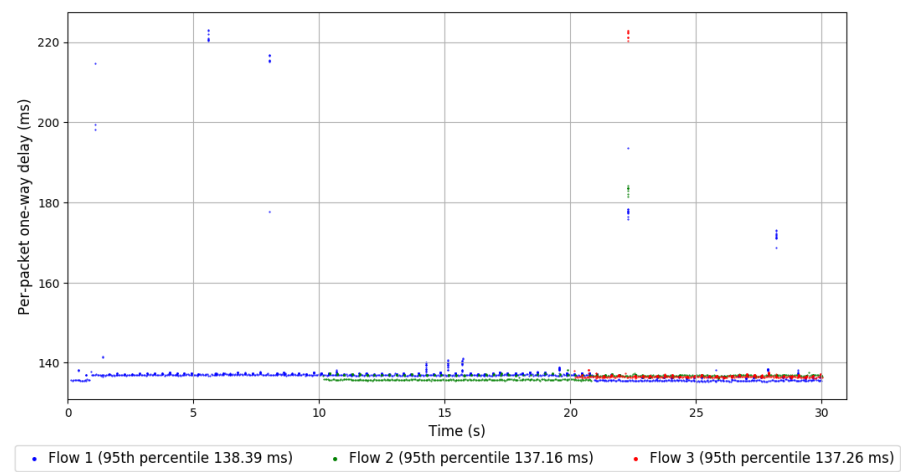
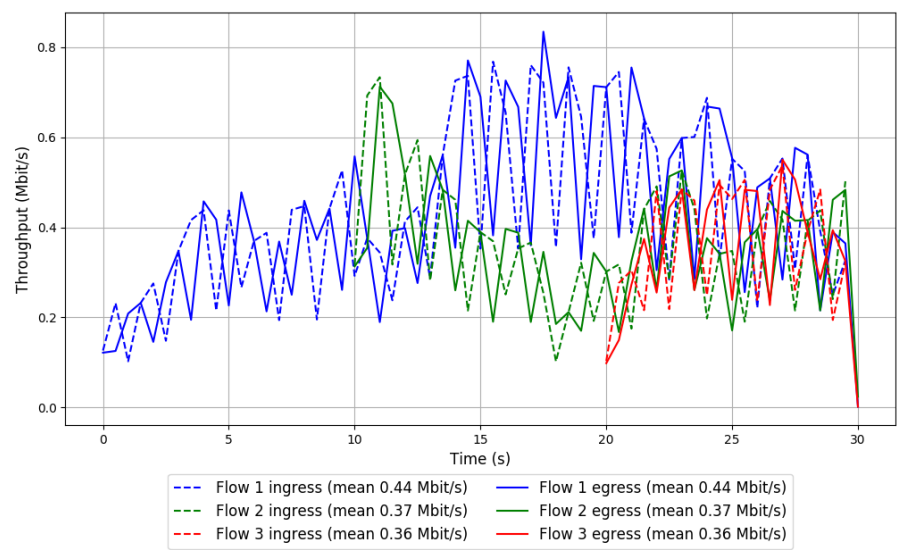
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 137.265 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-01 05:36:52

End at: 2018-02-01 05:37:23

Below is generated by plot.py at 2018-02-01 08:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 137.115 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 137.139 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.794 ms

Loss rate: 0.00%

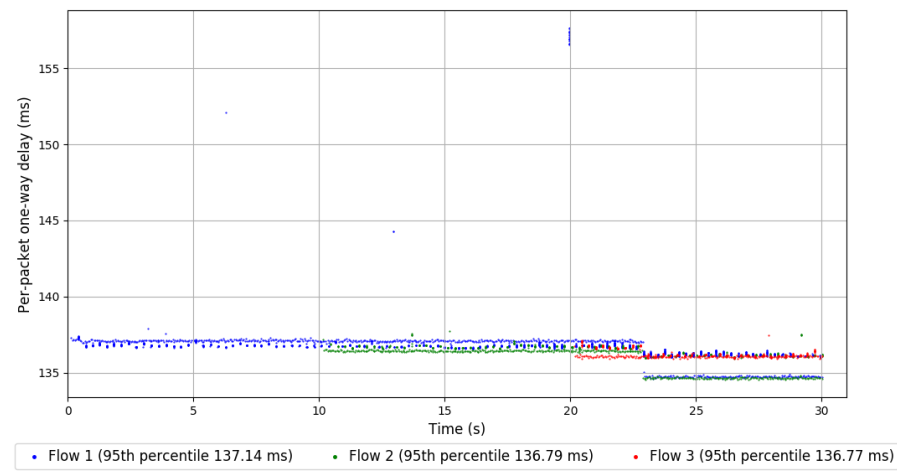
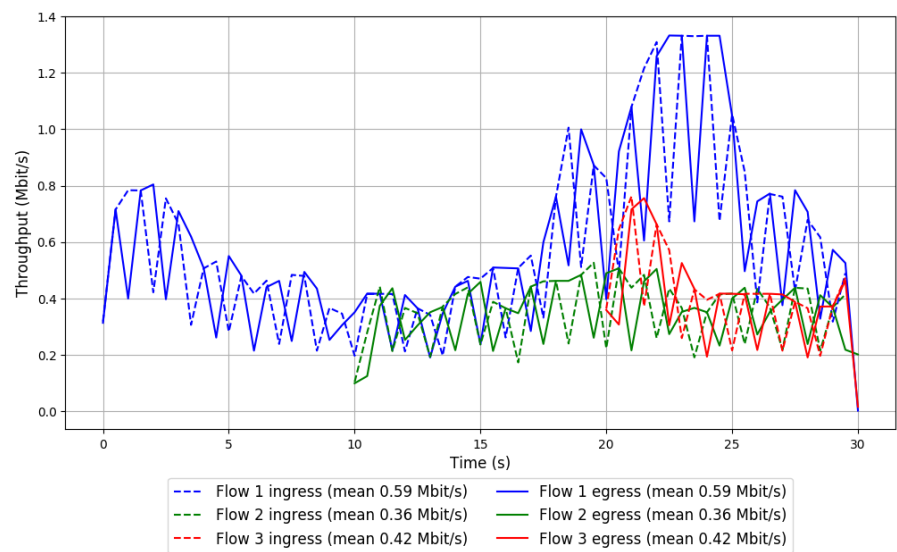
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.770 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-01 05:56:22

End at: 2018-02-01 05:56:52

Below is generated by plot.py at 2018-02-01 08:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 162.721 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 162.715 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 162.707 ms

Loss rate: 0.00%

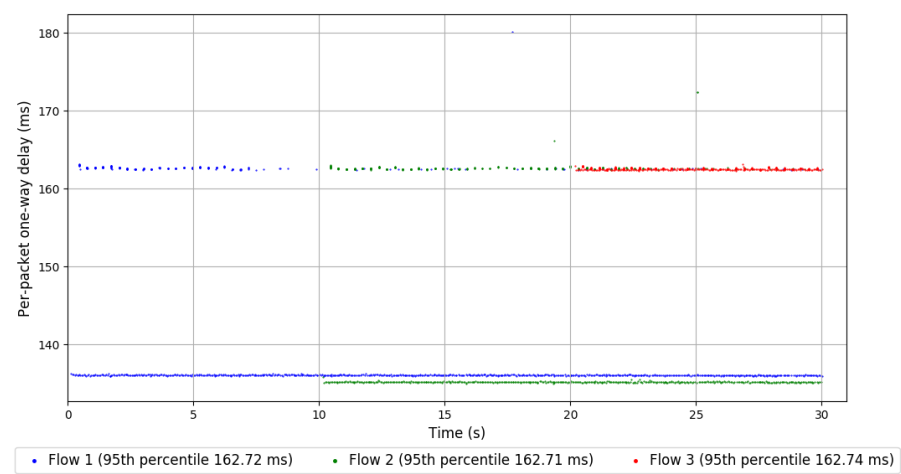
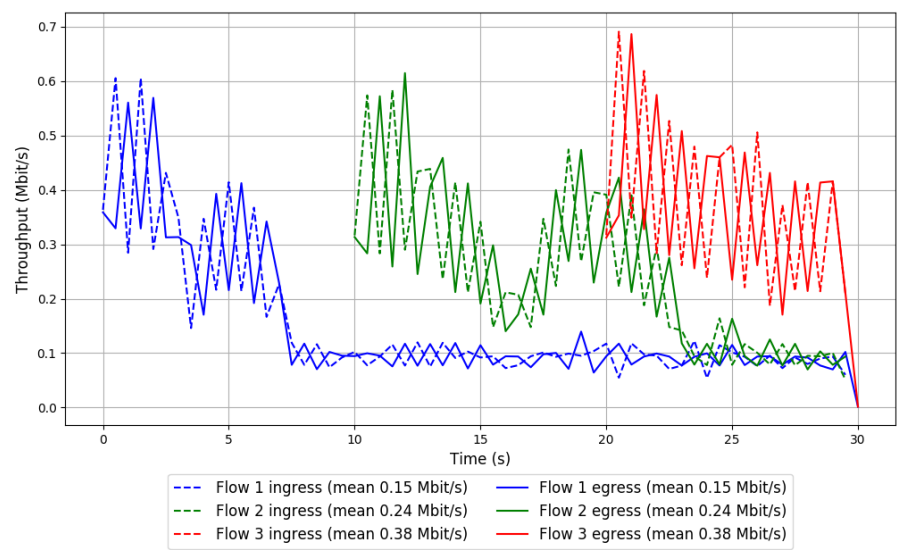
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 162.735 ms

Loss rate: 0.02%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-01 06:15:36

End at: 2018-02-01 06:16:06

Below is generated by plot.py at 2018-02-01 08:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.85 Mbit/s

95th percentile per-packet one-way delay: 137.363 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.374 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.899 ms

Loss rate: 0.00%

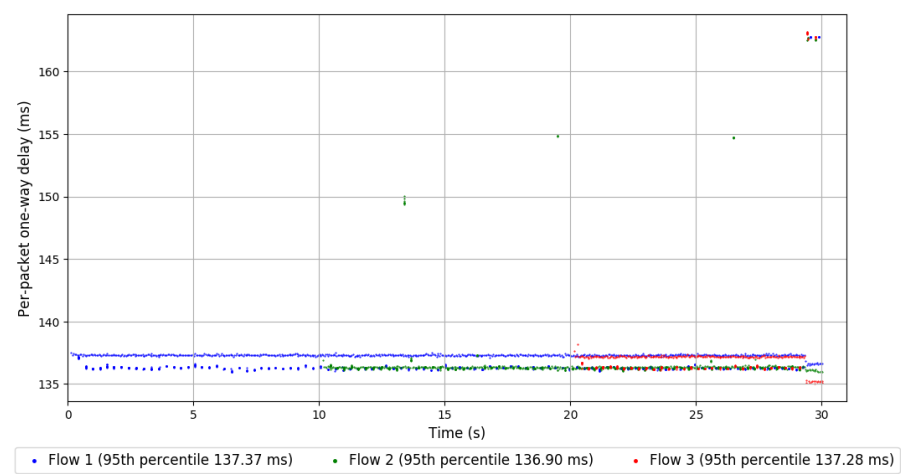
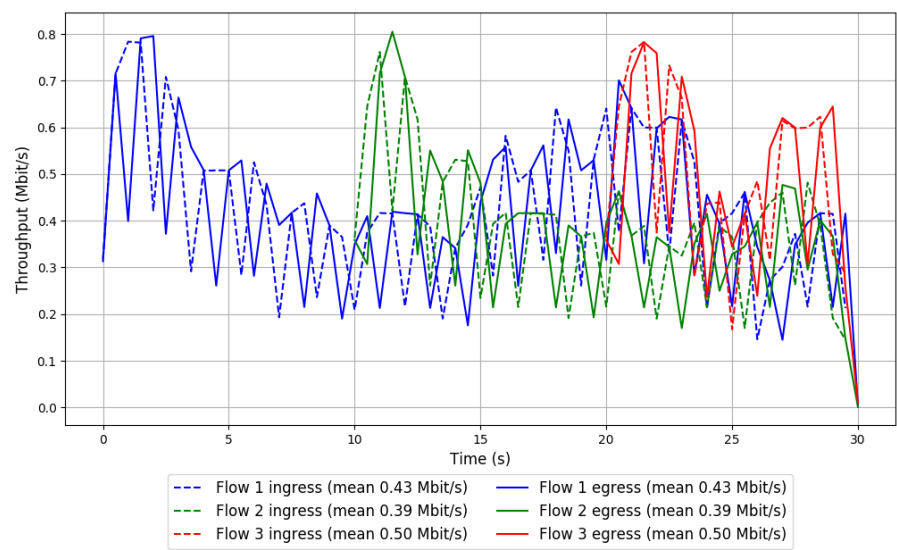
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 137.283 ms

Loss rate: 0.24%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-01 06:35:00

End at: 2018-02-01 06:35:30

Below is generated by plot.py at 2018-02-01 08:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.95 Mbit/s

95th percentile per-packet one-way delay: 136.812 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 136.836 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 136.826 ms

Loss rate: 0.00%

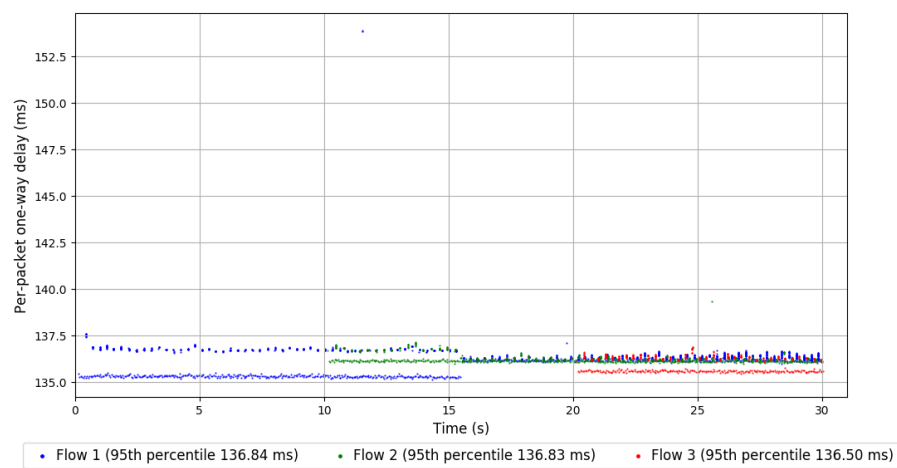
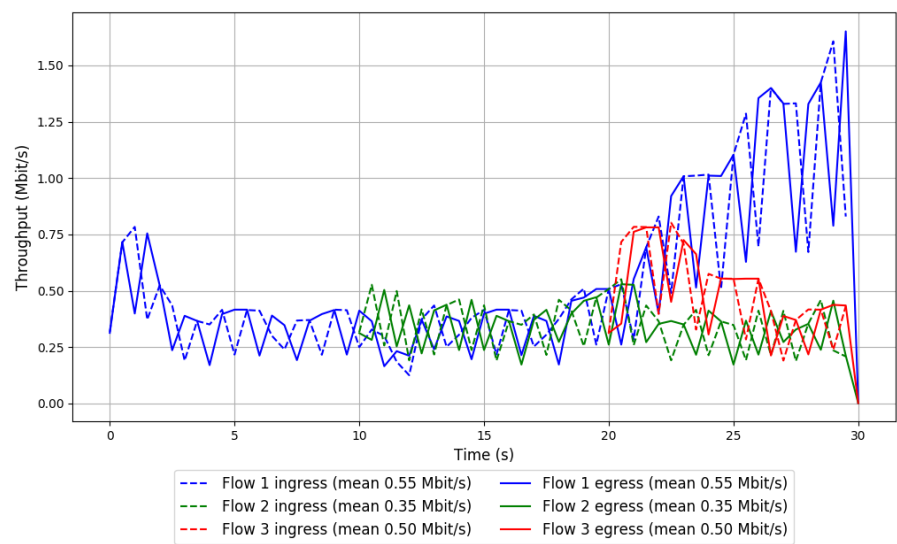
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 136.498 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-01 06:53:49

End at: 2018-02-01 06:54:19

Below is generated by plot.py at 2018-02-01 08:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.10 Mbit/s

95th percentile per-packet one-way delay: 137.287 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.973 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.83 Mbit/s

95th percentile per-packet one-way delay: 136.823 ms

Loss rate: 0.00%

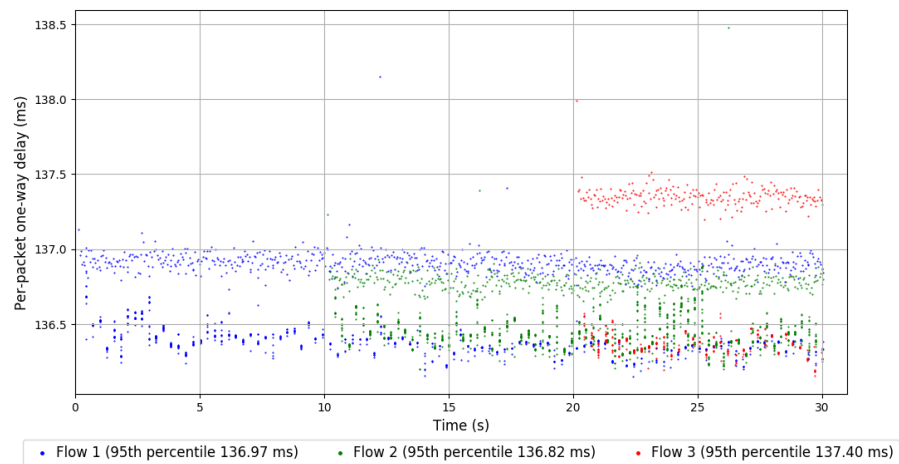
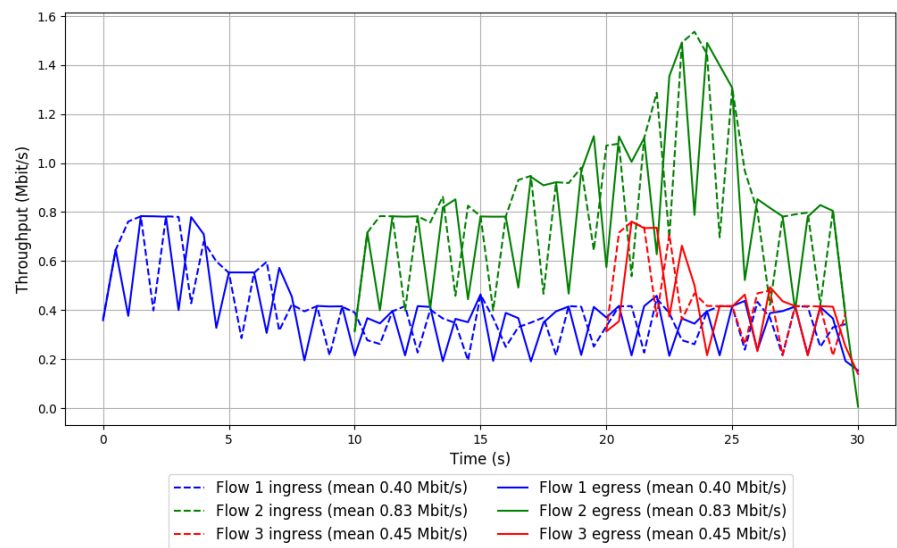
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 137.398 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-01 07:13:01

End at: 2018-02-01 07:13:31

Below is generated by plot.py at 2018-02-01 08:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.85 Mbit/s

95th percentile per-packet one-way delay: 137.047 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.38 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 137.023 ms

Loss rate: 0.00%

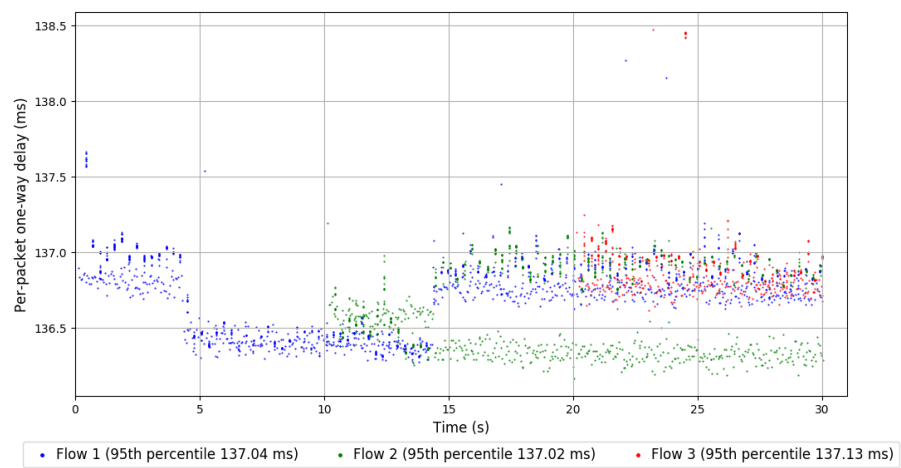
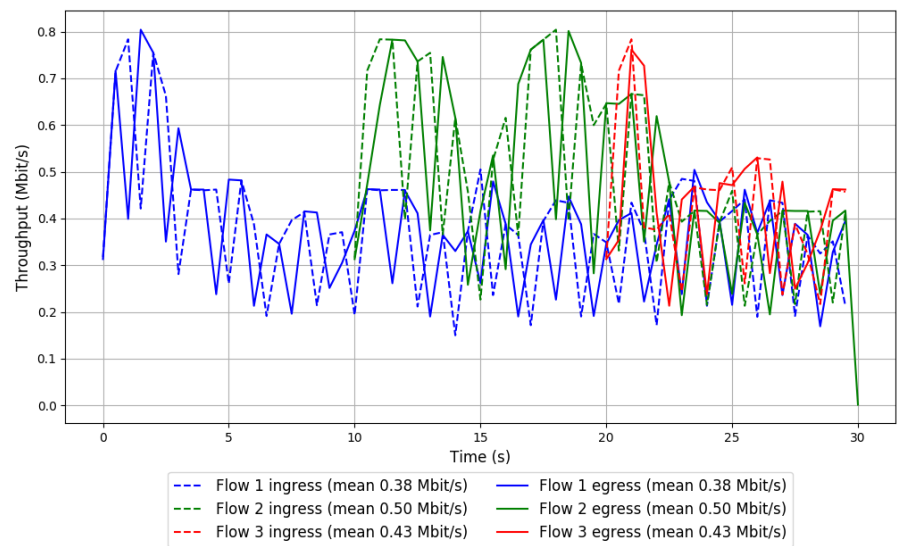
-- Flow 3:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.135 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

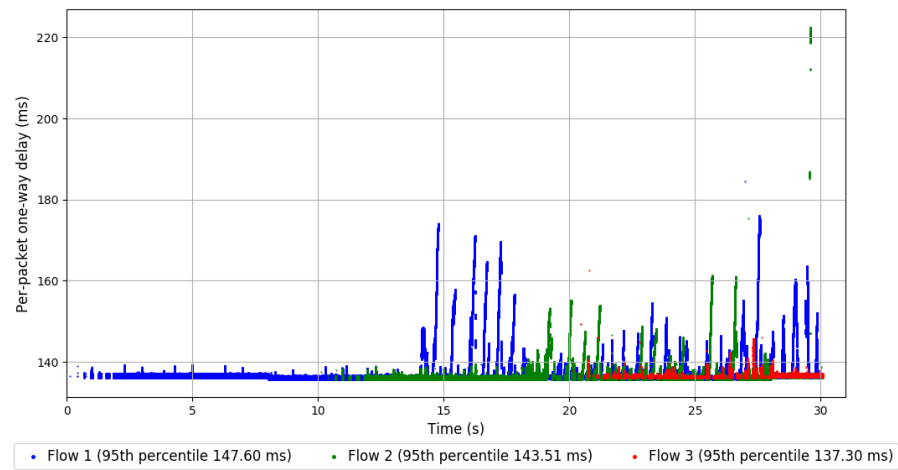
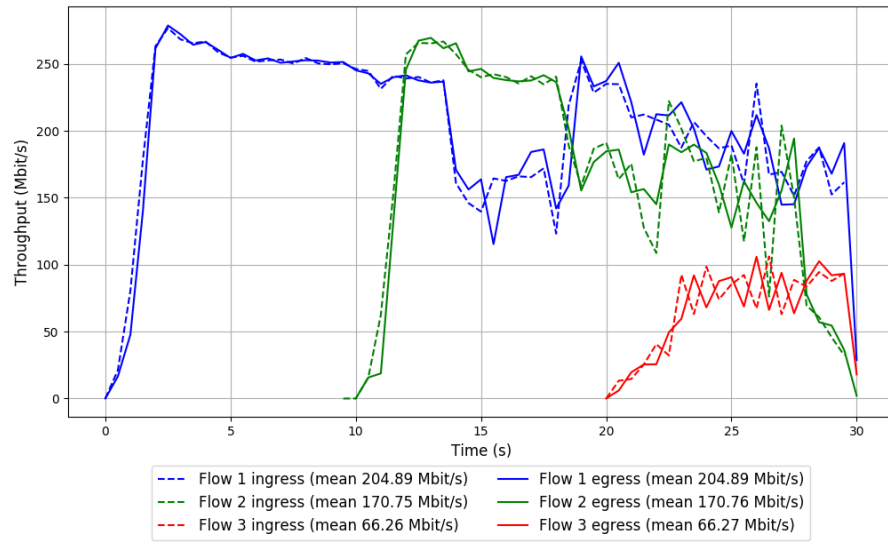


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-01 04:33:27
End at: 2018-02-01 04:33:57

# Below is generated by plot.py at 2018-02-01 09:05:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 340.44 Mbit/s
95th percentile per-packet one-way delay: 145.599 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 204.89 Mbit/s
95th percentile per-packet one-way delay: 147.596 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 170.76 Mbit/s
95th percentile per-packet one-way delay: 143.510 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 66.27 Mbit/s
95th percentile per-packet one-way delay: 137.300 ms
Loss rate: 0.00%
```


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

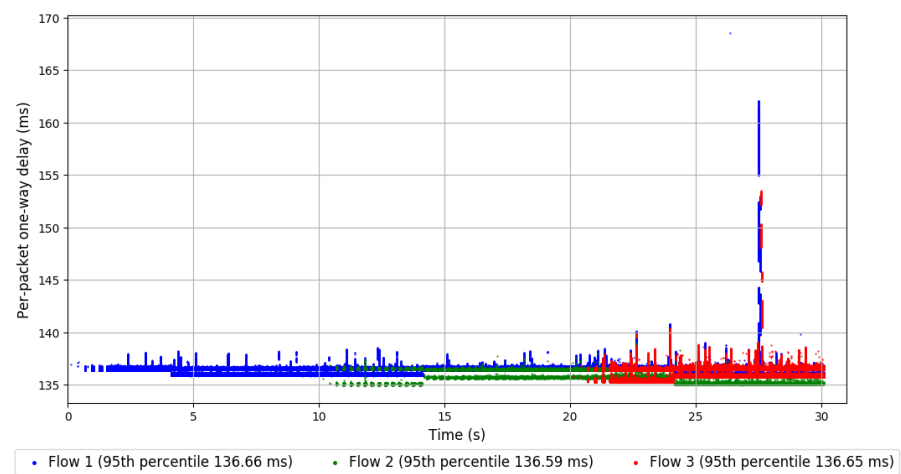
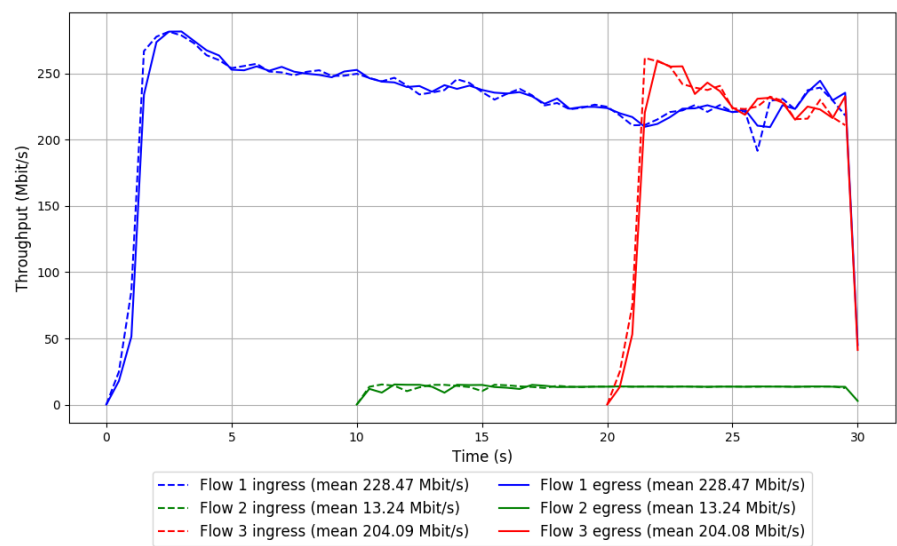


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-01 04:52:51
End at: 2018-02-01 04:53:21

# Below is generated by plot.py at 2018-02-01 09:05:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 305.01 Mbit/s
95th percentile per-packet one-way delay: 136.661 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 228.47 Mbit/s
95th percentile per-packet one-way delay: 136.663 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.24 Mbit/s
95th percentile per-packet one-way delay: 136.590 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 204.08 Mbit/s
95th percentile per-packet one-way delay: 136.652 ms
Loss rate: 0.00%
```

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

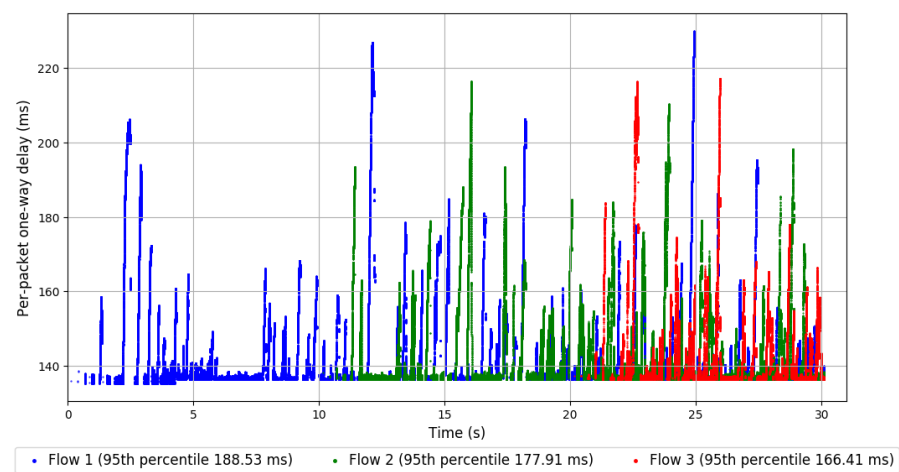
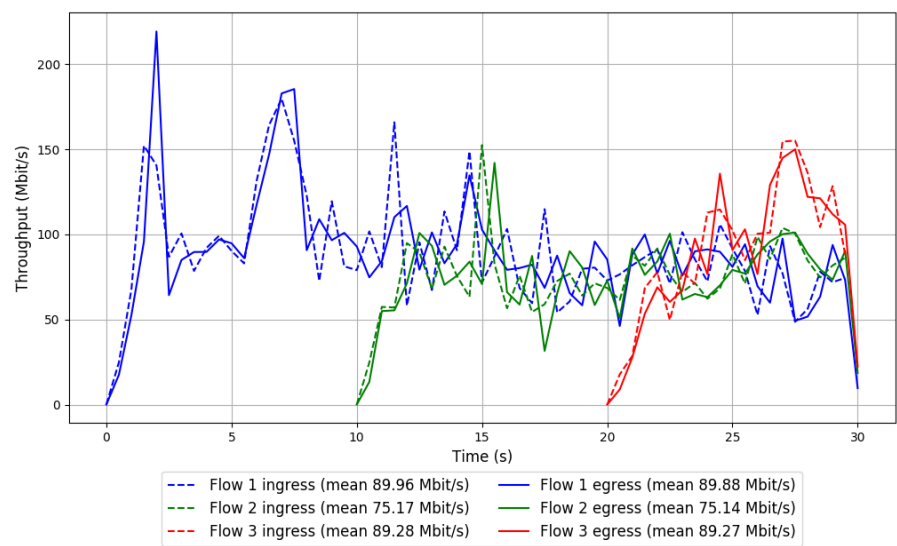


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-02-01 05:11:41
End at: 2018-02-01 05:12:11

# Below is generated by plot.py at 2018-02-01 09:05:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 169.51 Mbit/s
95th percentile per-packet one-way delay: 179.268 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 89.88 Mbit/s
95th percentile per-packet one-way delay: 188.531 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 75.14 Mbit/s
95th percentile per-packet one-way delay: 177.914 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 89.27 Mbit/s
95th percentile per-packet one-way delay: 166.409 ms
Loss rate: 0.01%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-01 05:30:09

End at: 2018-02-01 05:30:39

Below is generated by plot.py at 2018-02-01 09:05:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 142.96 Mbit/s

95th percentile per-packet one-way delay: 136.127 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 9.56 Mbit/s

95th percentile per-packet one-way delay: 137.239 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 195.31 Mbit/s

95th percentile per-packet one-way delay: 136.043 ms

Loss rate: 0.00%

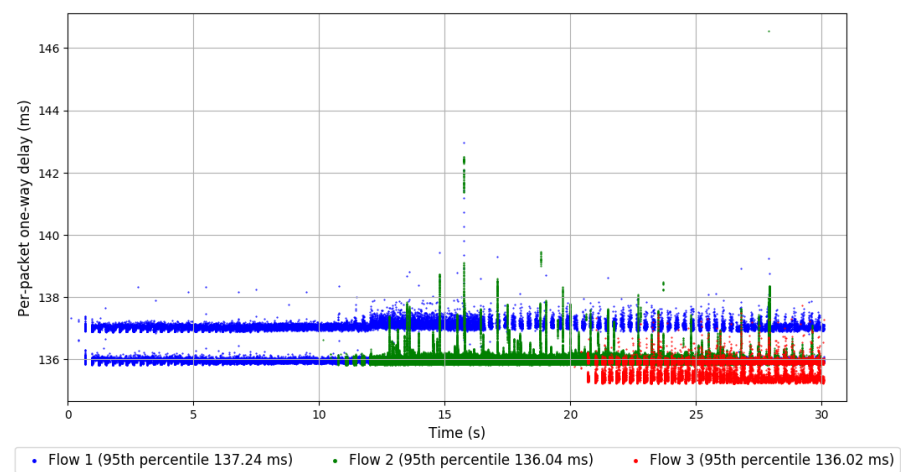
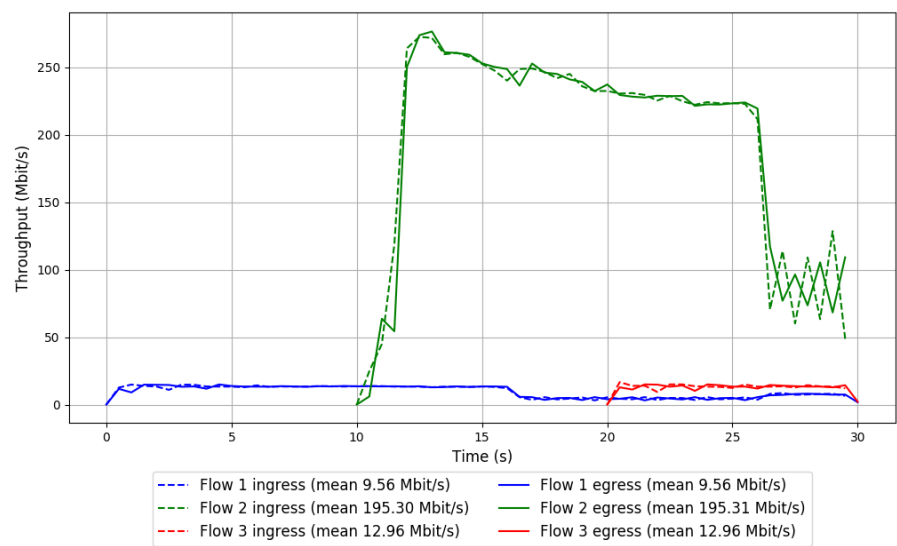
-- Flow 3:

Average throughput: 12.96 Mbit/s

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

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-01 05:49:34

End at: 2018-02-01 05:50:04

Below is generated by plot.py at 2018-02-01 09:05:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 238.13 Mbit/s

95th percentile per-packet one-way delay: 140.131 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 201.75 Mbit/s

95th percentile per-packet one-way delay: 138.202 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 136.47 Mbit/s

95th percentile per-packet one-way delay: 162.328 ms

Loss rate: 0.01%

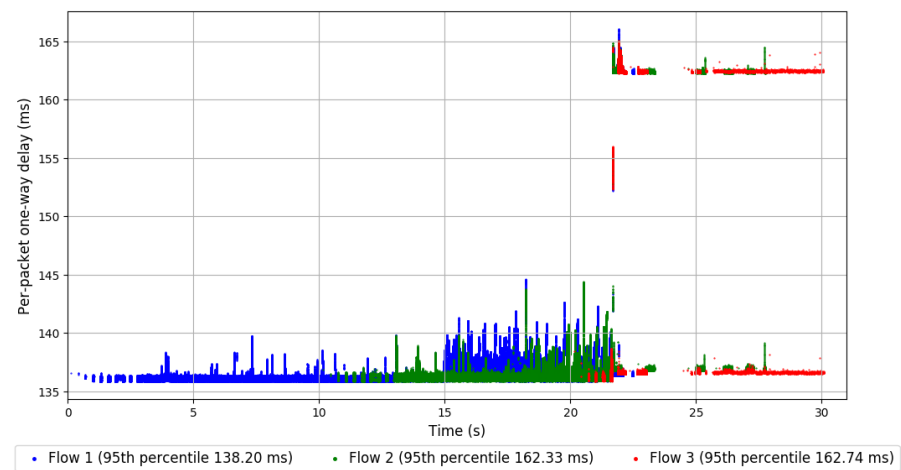
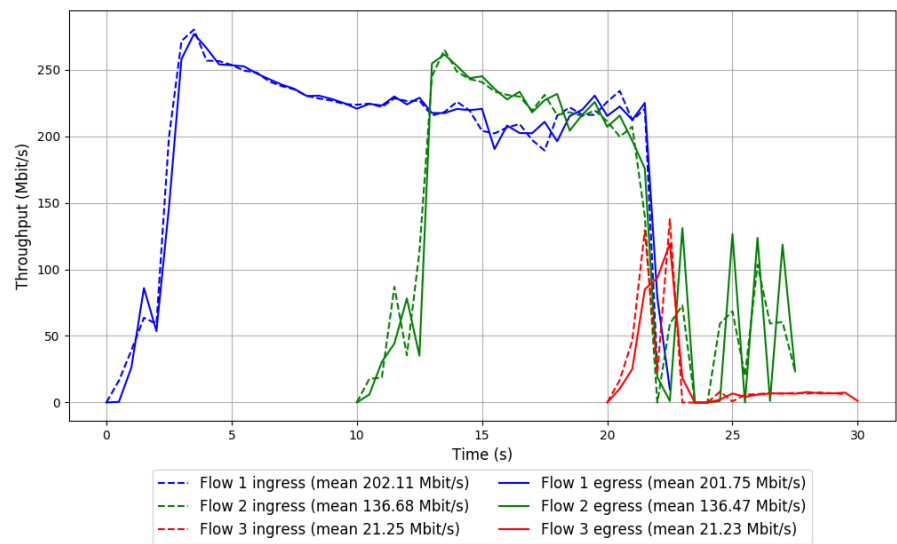
-- Flow 3:

Average throughput: 21.23 Mbit/s

95th percentile per-packet one-way delay: 162.740 ms

Loss rate: 0.09%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-01 06:08:40

End at: 2018-02-01 06:09:10

Below is generated by plot.py at 2018-02-01 09:06:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 349.72 Mbit/s

95th percentile per-packet one-way delay: 137.947 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 205.43 Mbit/s

95th percentile per-packet one-way delay: 138.989 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 138.46 Mbit/s

95th percentile per-packet one-way delay: 136.365 ms

Loss rate: 0.00%

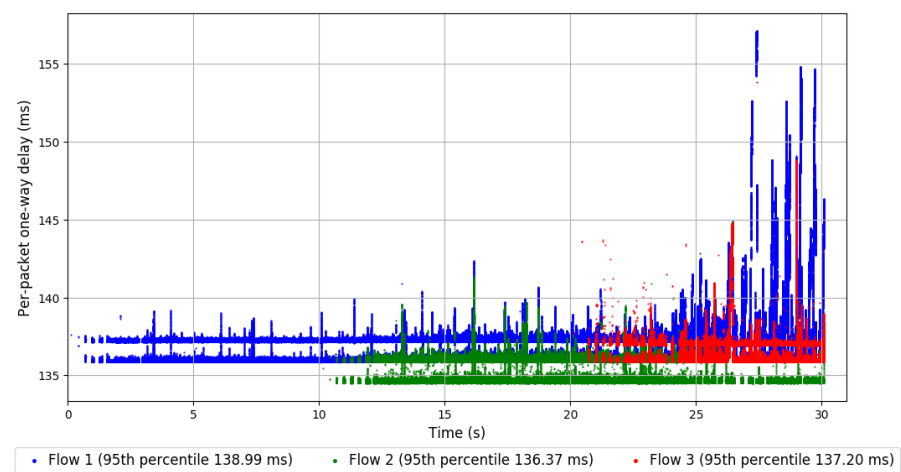
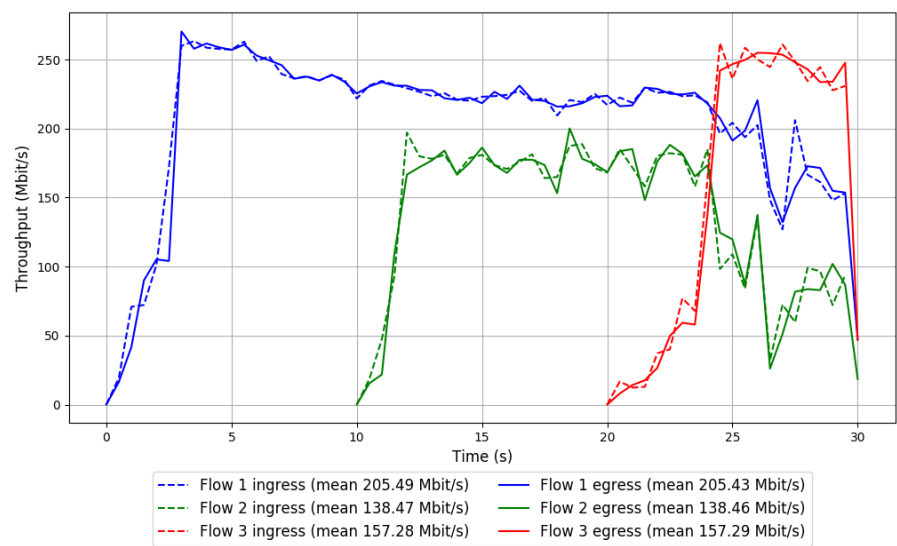
-- Flow 3:

Average throughput: 157.29 Mbit/s

95th percentile per-packet one-way delay: 137.197 ms

Loss rate: 0.00%

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

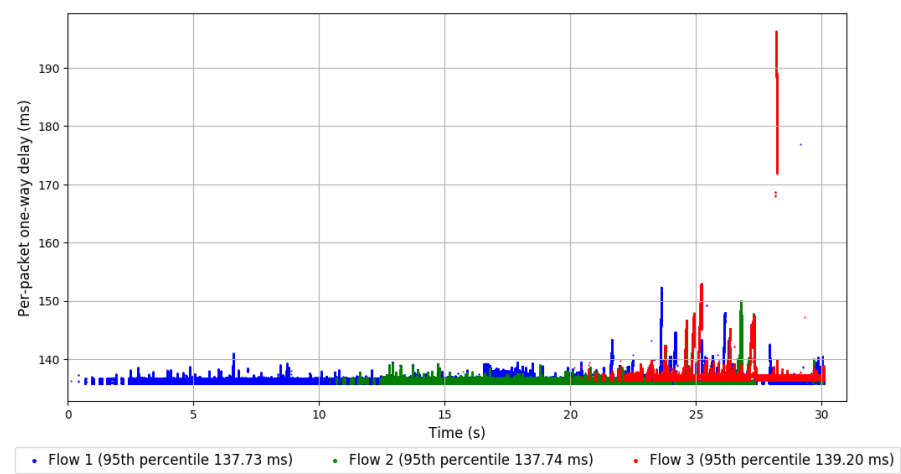
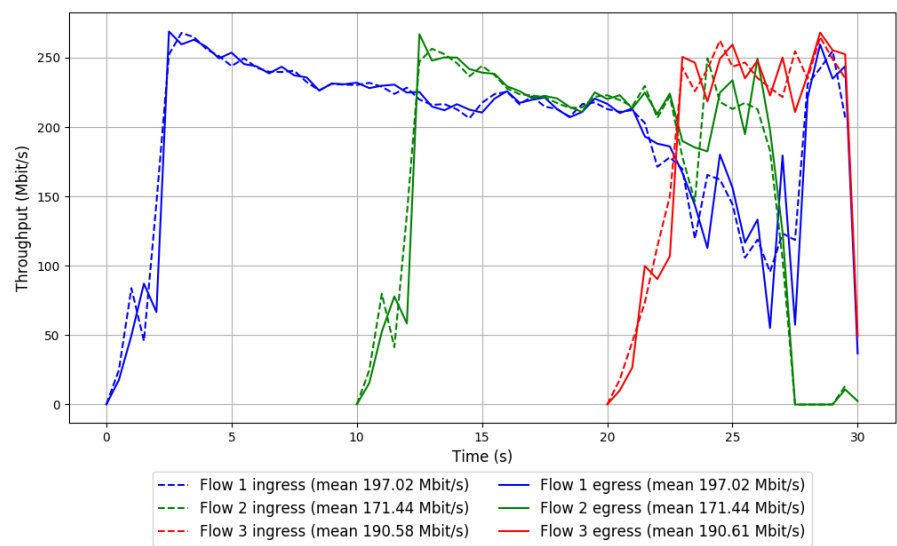


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-02-01 06:28:00
End at: 2018-02-01 06:28:30

# Below is generated by plot.py at 2018-02-01 09:10:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 374.03 Mbit/s
95th percentile per-packet one-way delay: 137.953 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 197.02 Mbit/s
95th percentile per-packet one-way delay: 137.734 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 171.44 Mbit/s
95th percentile per-packet one-way delay: 137.741 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 190.61 Mbit/s
95th percentile per-packet one-way delay: 139.197 ms
Loss rate: 0.00%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-01 06:47:10

End at: 2018-02-01 06:47:40

Below is generated by plot.py at 2018-02-01 09:10:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.55 Mbit/s

95th percentile per-packet one-way delay: 137.007 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 13.07 Mbit/s

95th percentile per-packet one-way delay: 136.607 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 90.38 Mbit/s

95th percentile per-packet one-way delay: 137.020 ms

Loss rate: 0.12%

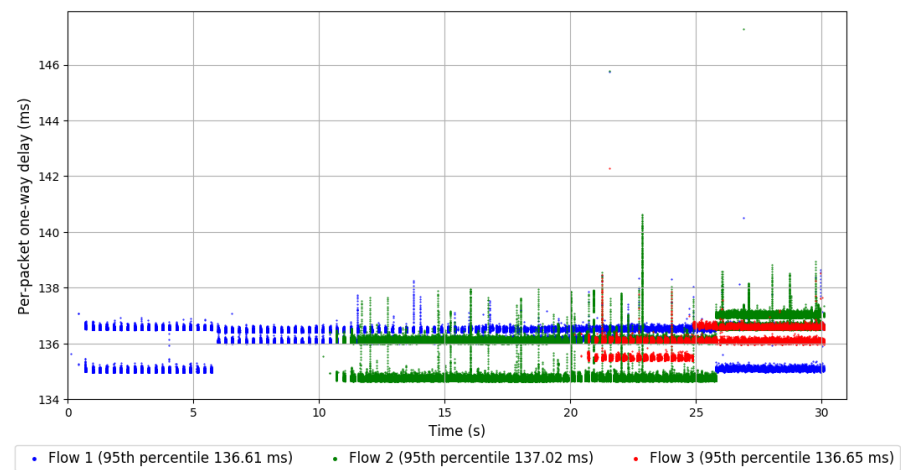
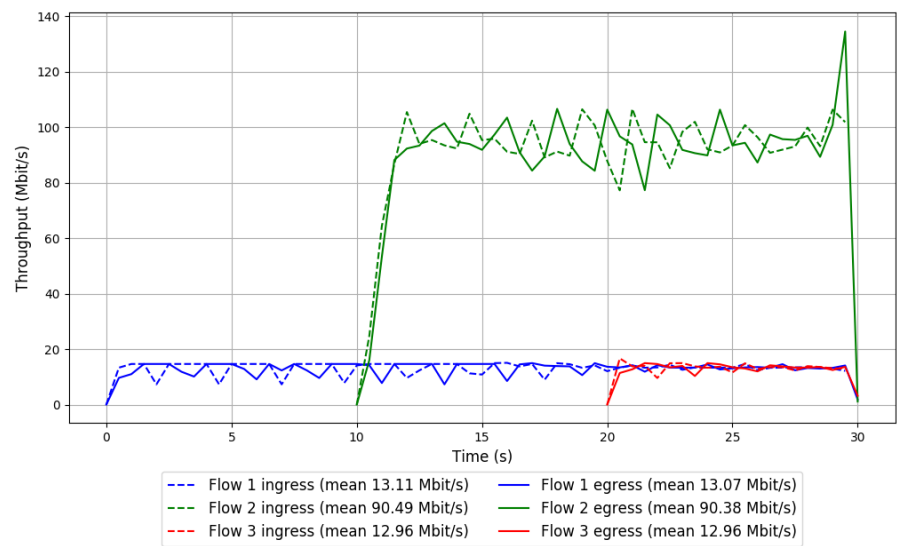
-- Flow 3:

Average throughput: 12.96 Mbit/s

95th percentile per-packet one-way delay: 136.645 ms

Loss rate: 0.00%

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

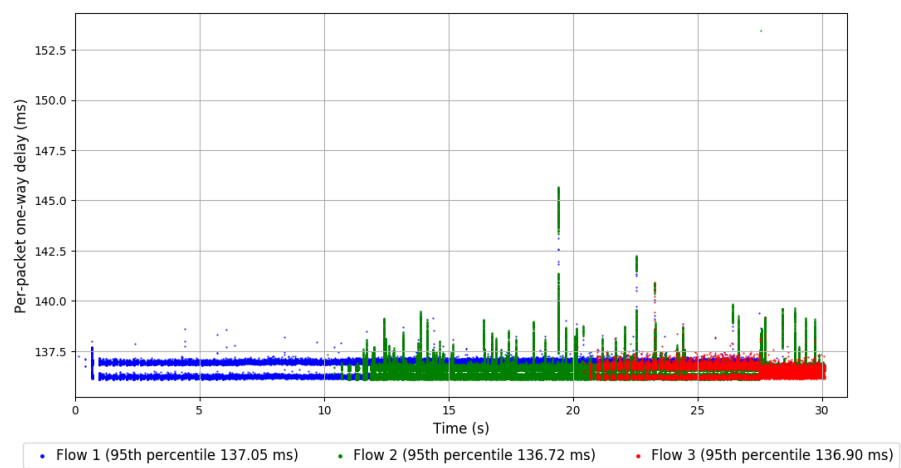
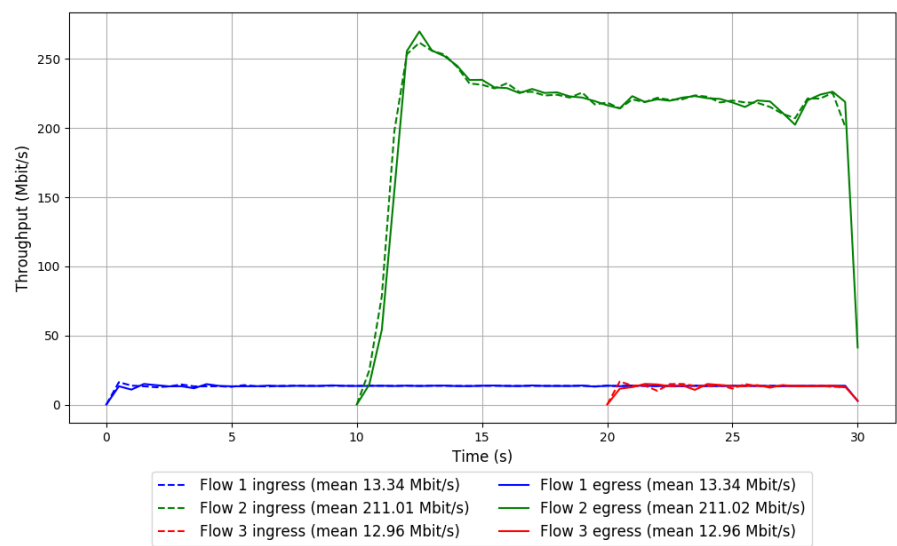


```
Run 9: Statistics of TaoVA-100x

Start at: 2018-02-01 07:06:18
End at: 2018-02-01 07:06:48

# Below is generated by plot.py at 2018-02-01 09:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 158.14 Mbit/s
95th percentile per-packet one-way delay: 136.883 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.34 Mbit/s
95th percentile per-packet one-way delay: 137.048 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 211.02 Mbit/s
95th percentile per-packet one-way delay: 136.724 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.96 Mbit/s
95th percentile per-packet one-way delay: 136.898 ms
Loss rate: 0.00%
```


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

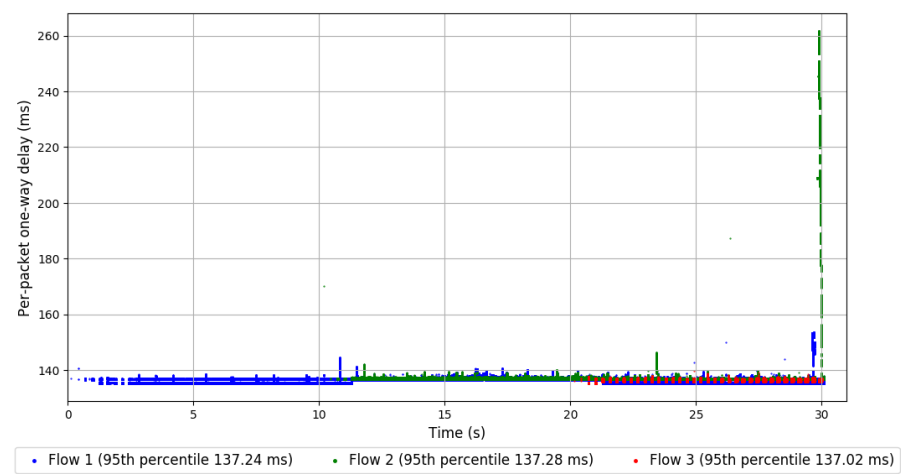
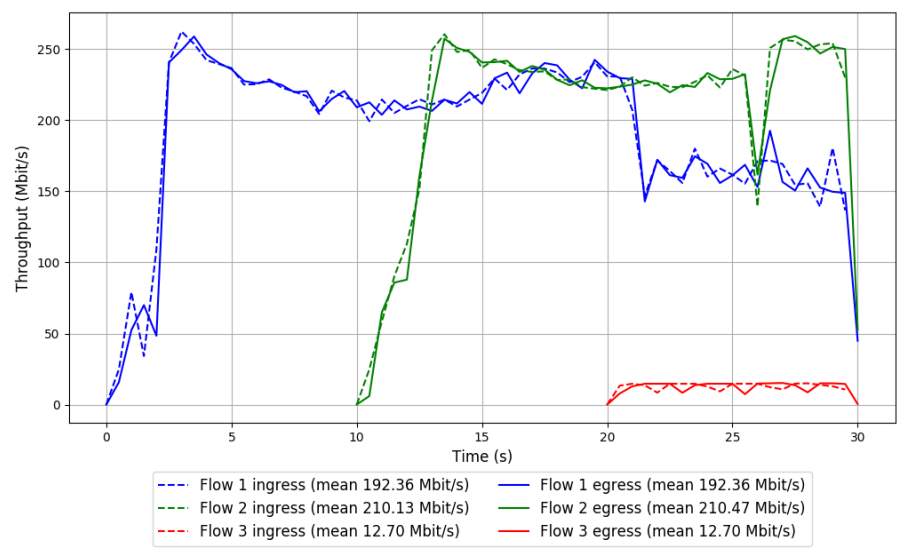


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-01 07:25:34
End at: 2018-02-01 07:26:04

# Below is generated by plot.py at 2018-02-01 09:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 336.41 Mbit/s
95th percentile per-packet one-way delay: 137.267 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 192.36 Mbit/s
95th percentile per-packet one-way delay: 137.240 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 210.47 Mbit/s
95th percentile per-packet one-way delay: 137.275 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.70 Mbit/s
95th percentile per-packet one-way delay: 137.019 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-01 04:36:44

End at: 2018-02-01 04:37:14

Below is generated by plot.py at 2018-02-01 09:10:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.83 Mbit/s

95th percentile per-packet one-way delay: 142.793 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 24.30 Mbit/s

95th percentile per-packet one-way delay: 142.119 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.26 Mbit/s

95th percentile per-packet one-way delay: 139.273 ms

Loss rate: 0.00%

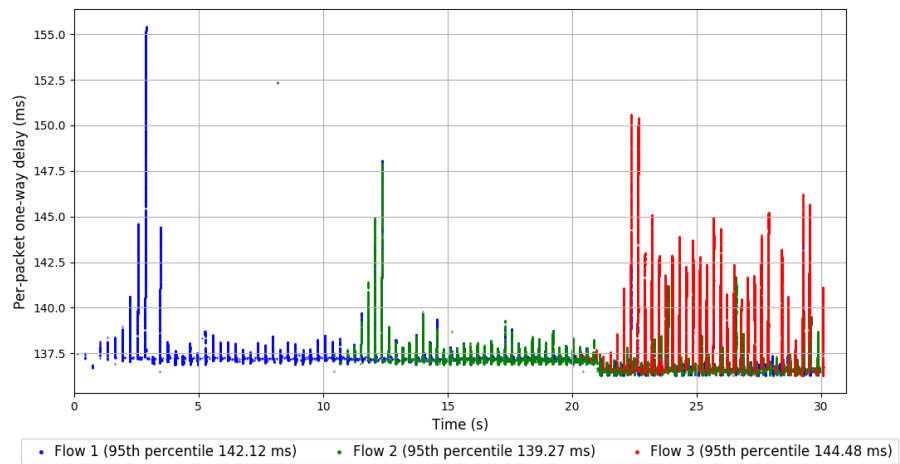
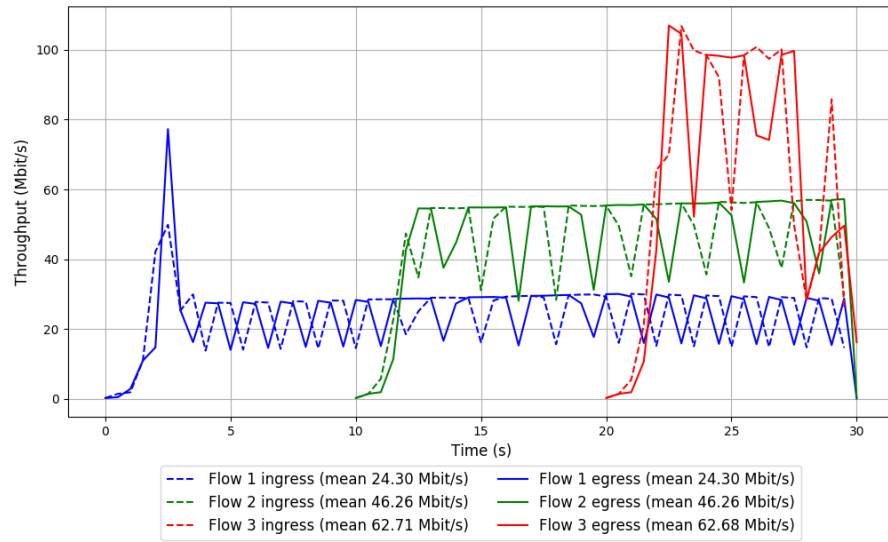
-- Flow 3:

Average throughput: 62.68 Mbit/s

95th percentile per-packet one-way delay: 144.483 ms

Loss rate: 0.01%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-01 04:55:58

End at: 2018-02-01 04:56:28

Below is generated by plot.py at 2018-02-01 09:10:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.78 Mbit/s

95th percentile per-packet one-way delay: 141.417 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 18.68 Mbit/s

95th percentile per-packet one-way delay: 142.319 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 137.564 ms

Loss rate: 2.82%

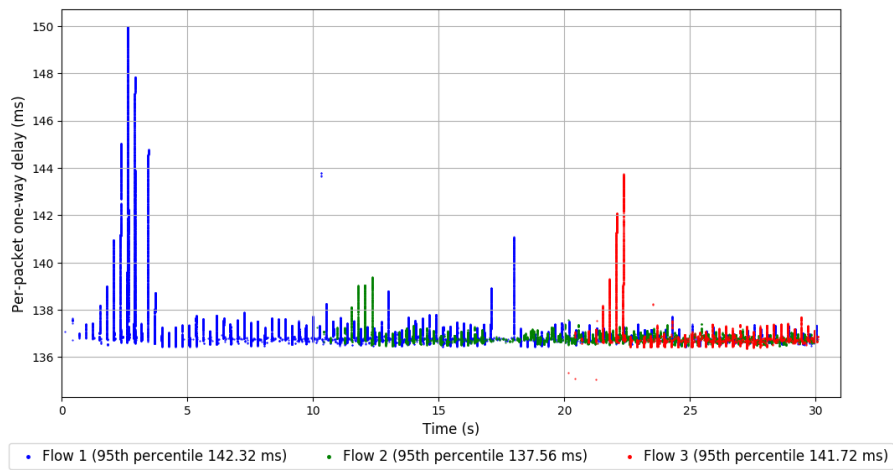
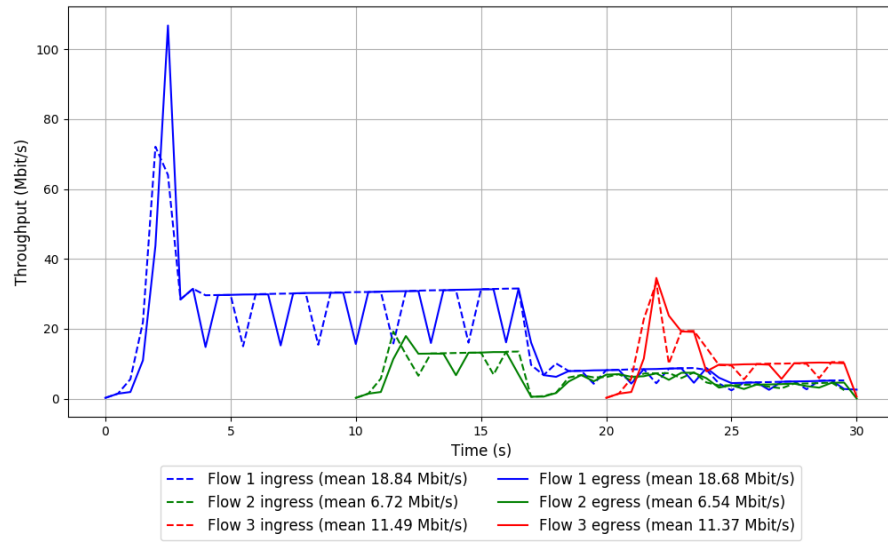
-- Flow 3:

Average throughput: 11.37 Mbit/s

95th percentile per-packet one-way delay: 141.725 ms

Loss rate: 1.07%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-01 05:14:35

End at: 2018-02-01 05:15:05

Below is generated by plot.py at 2018-02-01 09:10:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.08 Mbit/s

95th percentile per-packet one-way delay: 151.550 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 17.13 Mbit/s

95th percentile per-packet one-way delay: 140.413 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 43.18 Mbit/s

95th percentile per-packet one-way delay: 153.546 ms

Loss rate: 0.05%

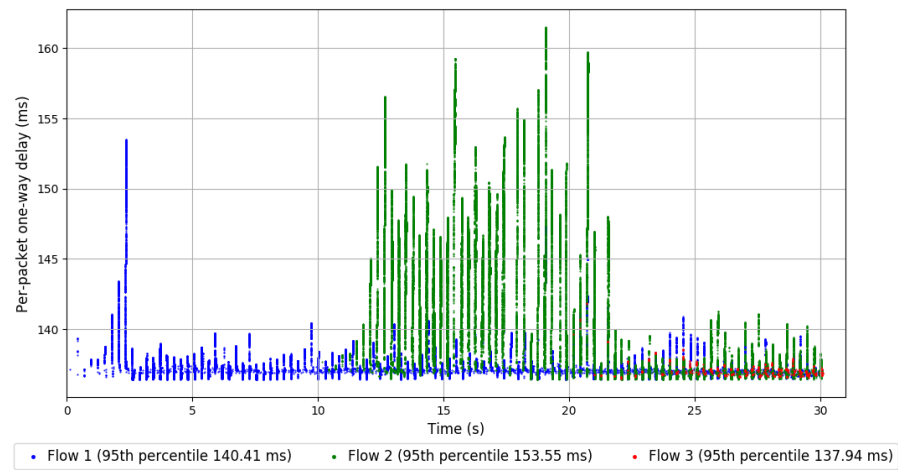
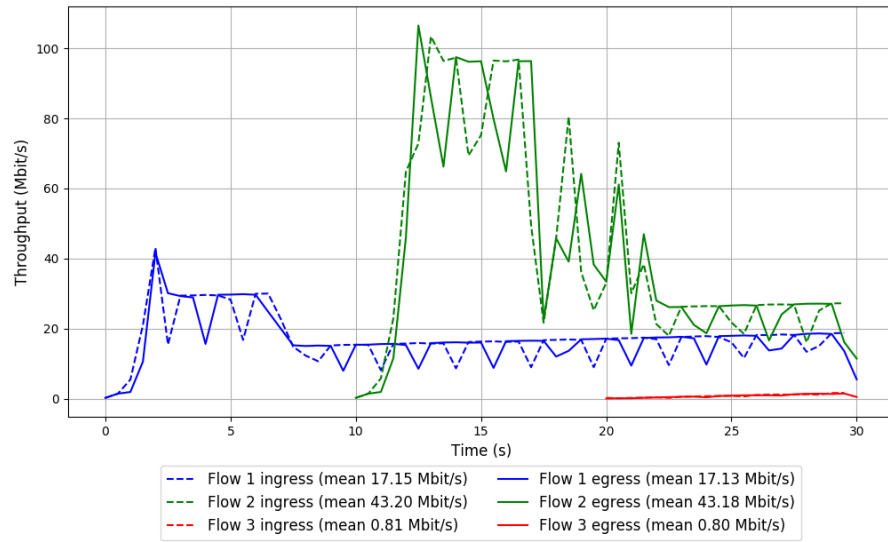
-- Flow 3:

Average throughput: 0.80 Mbit/s

95th percentile per-packet one-way delay: 137.945 ms

Loss rate: 1.20%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-01 05:32:58

End at: 2018-02-01 05:33:28

Below is generated by plot.py at 2018-02-01 09:10:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.95 Mbit/s

95th percentile per-packet one-way delay: 141.996 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 26.46 Mbit/s

95th percentile per-packet one-way delay: 138.958 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 25.70 Mbit/s

95th percentile per-packet one-way delay: 139.627 ms

Loss rate: 0.01%

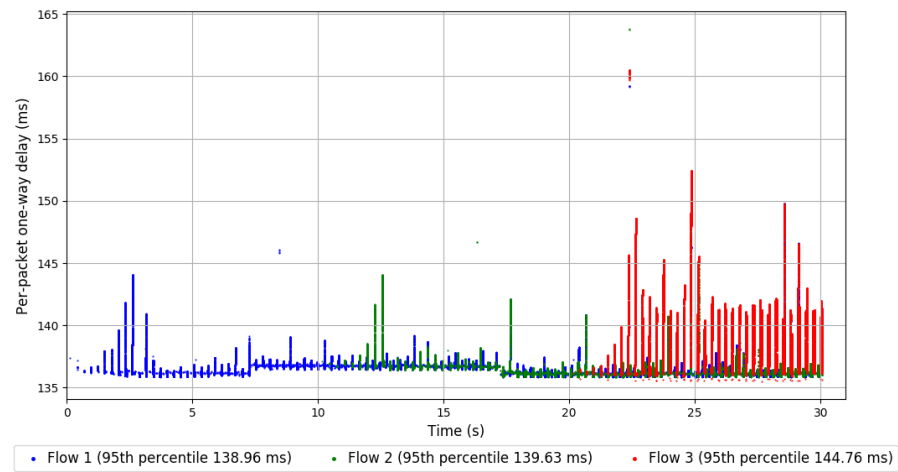
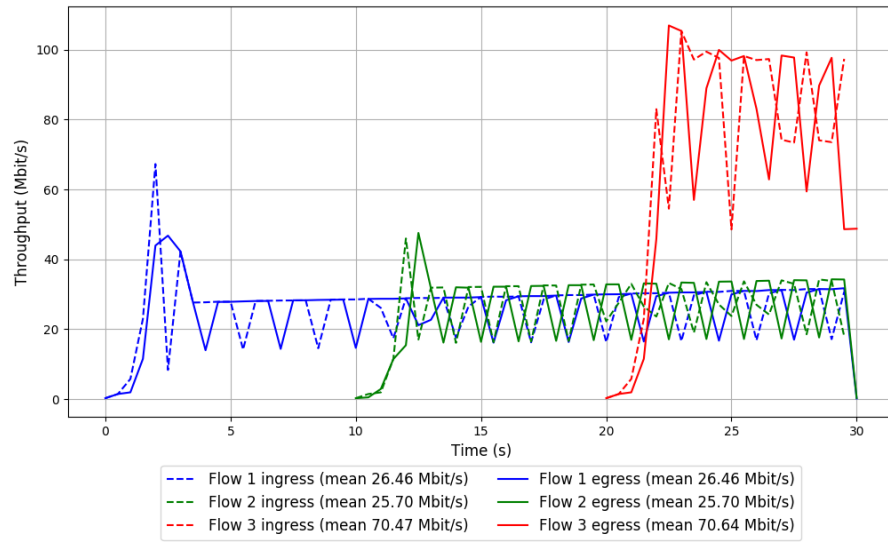
-- Flow 3:

Average throughput: 70.64 Mbit/s

95th percentile per-packet one-way delay: 144.762 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-01 05:52:29

End at: 2018-02-01 05:52:59

Below is generated by plot.py at 2018-02-01 09:10:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.99 Mbit/s

95th percentile per-packet one-way delay: 169.234 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 39.65 Mbit/s

95th percentile per-packet one-way delay: 162.838 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 32.83 Mbit/s

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

Loss rate: 0.02%

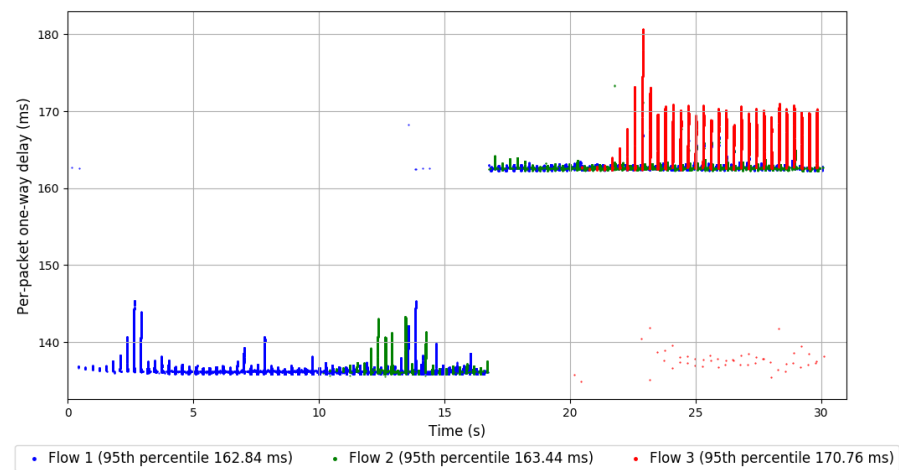
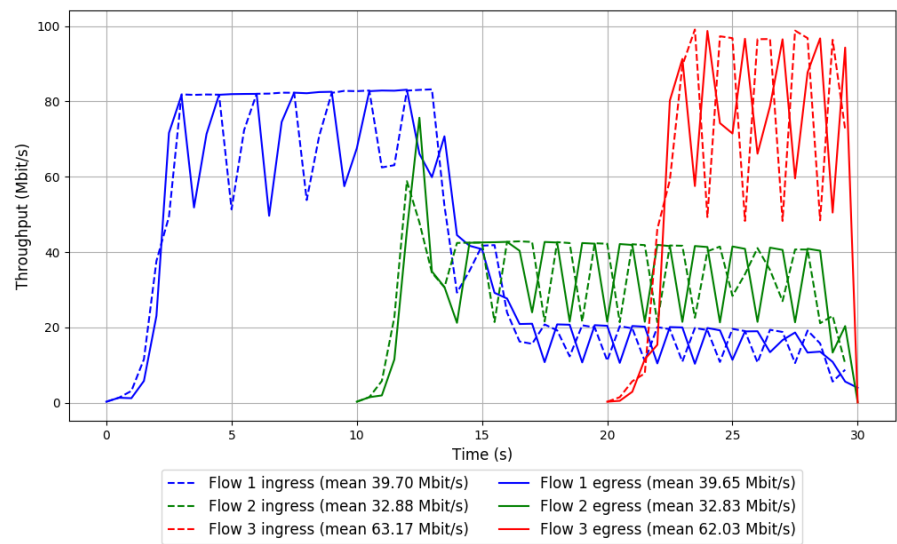
-- Flow 3:

Average throughput: 62.03 Mbit/s

95th percentile per-packet one-way delay: 170.757 ms

Loss rate: 1.92%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-01 06:11:51

End at: 2018-02-01 06:12:21

Below is generated by plot.py at 2018-02-01 09:10:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.95 Mbit/s

95th percentile per-packet one-way delay: 163.109 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 20.58 Mbit/s

95th percentile per-packet one-way delay: 162.906 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 25.89 Mbit/s

95th percentile per-packet one-way delay: 163.016 ms

Loss rate: 0.01%

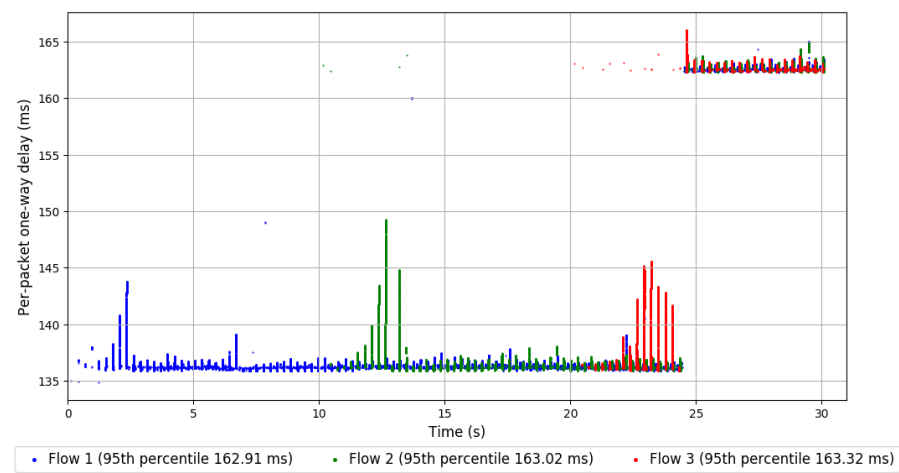
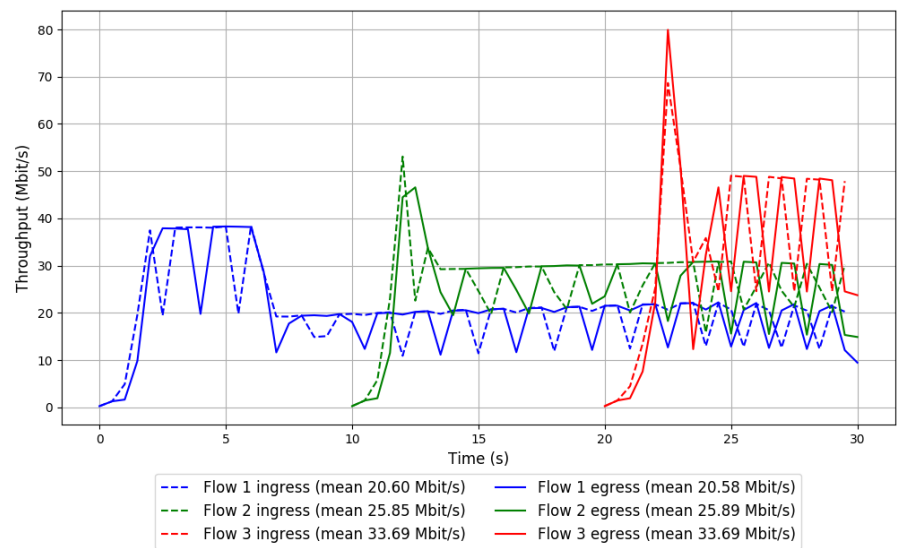
-- Flow 3:

Average throughput: 33.69 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-01 06:31:13

End at: 2018-02-01 06:31:43

Below is generated by plot.py at 2018-02-01 09:10:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.37 Mbit/s

95th percentile per-packet one-way delay: 142.406 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 33.08 Mbit/s

95th percentile per-packet one-way delay: 143.009 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 48.33 Mbit/s

95th percentile per-packet one-way delay: 138.701 ms

Loss rate: 0.09%

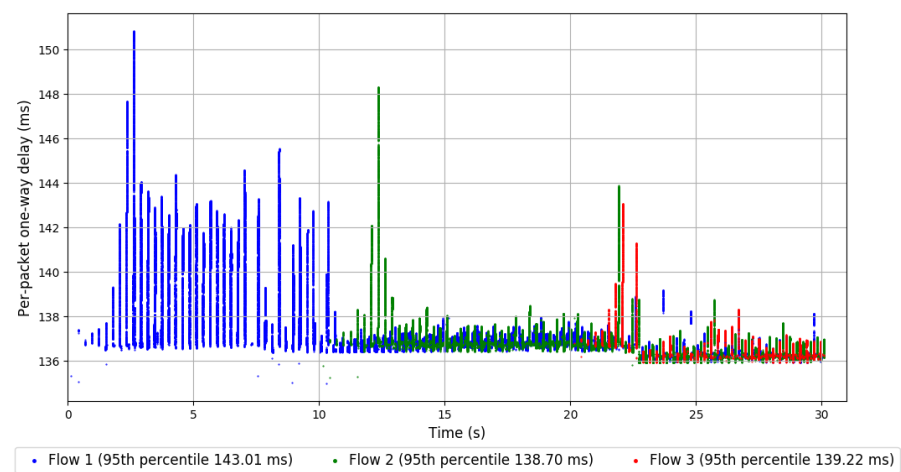
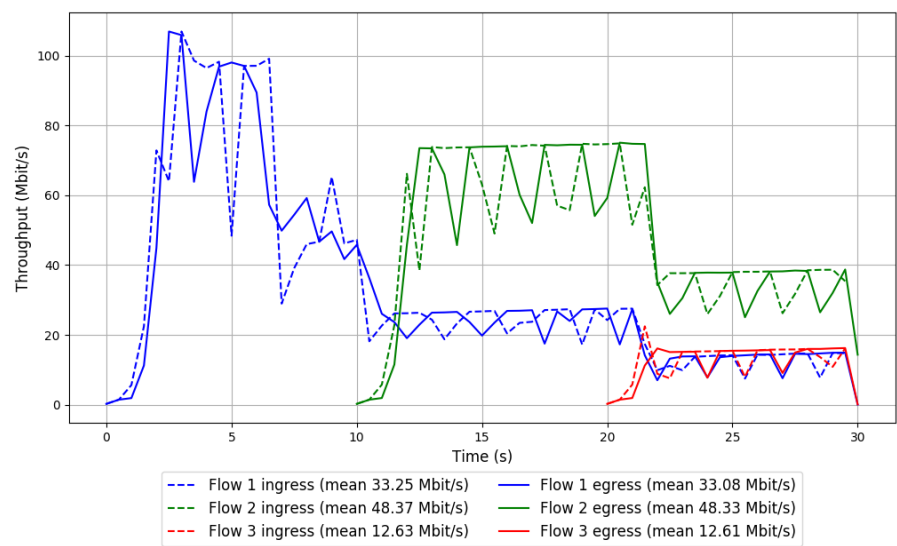
-- Flow 3:

Average throughput: 12.61 Mbit/s

95th percentile per-packet one-way delay: 139.216 ms

Loss rate: 0.12%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-01 06:49:54

End at: 2018-02-01 06:50:24

Below is generated by plot.py at 2018-02-01 09:10:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.75 Mbit/s

95th percentile per-packet one-way delay: 142.359 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 26.14 Mbit/s

95th percentile per-packet one-way delay: 139.728 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 74.32 Mbit/s

95th percentile per-packet one-way delay: 142.607 ms

Loss rate: 0.14%

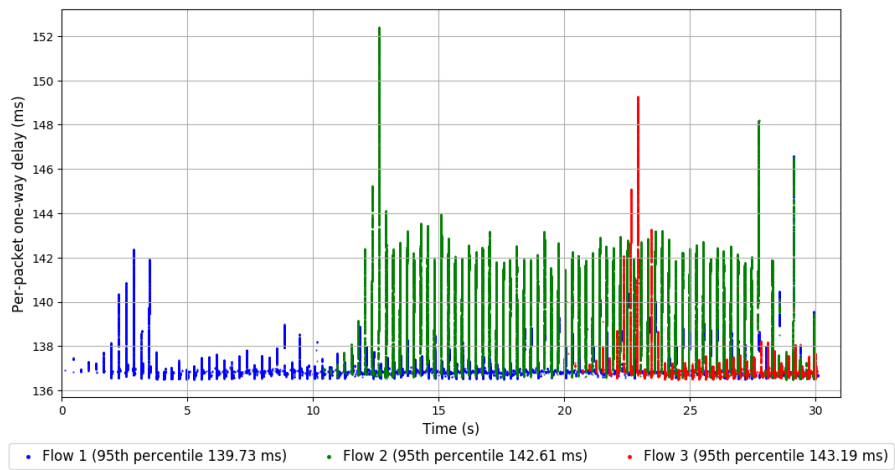
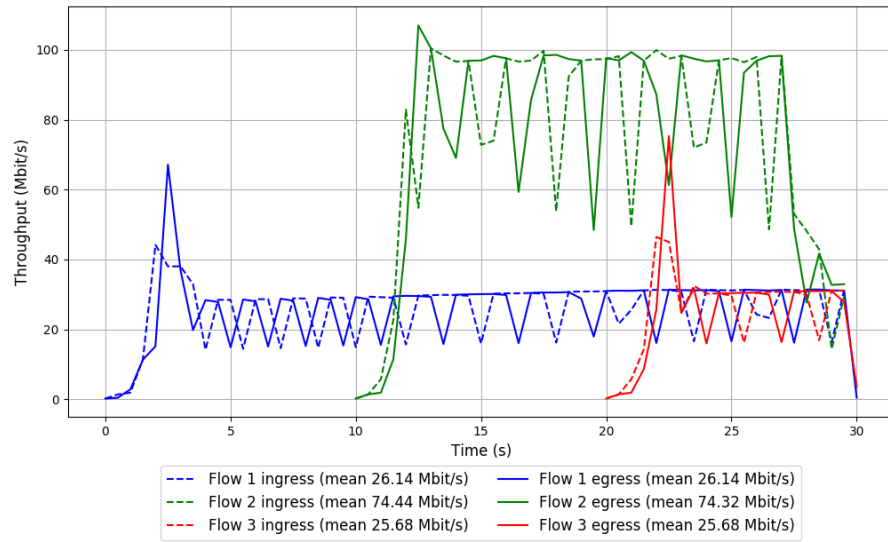
-- Flow 3:

Average throughput: 25.68 Mbit/s

95th percentile per-packet one-way delay: 143.185 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-01 07:09:08

End at: 2018-02-01 07:09:38

Below is generated by plot.py at 2018-02-01 09:10:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.12 Mbit/s

95th percentile per-packet one-way delay: 139.434 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 27.43 Mbit/s

95th percentile per-packet one-way delay: 138.010 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 30.77 Mbit/s

95th percentile per-packet one-way delay: 140.635 ms

Loss rate: 1.52%

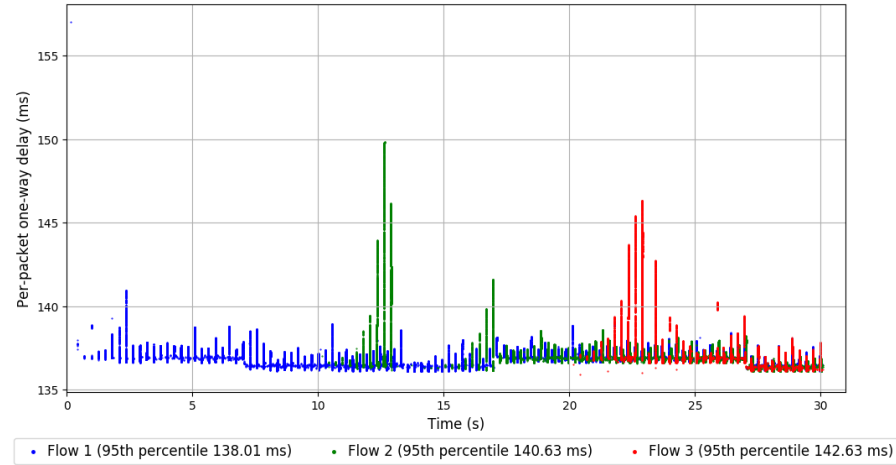
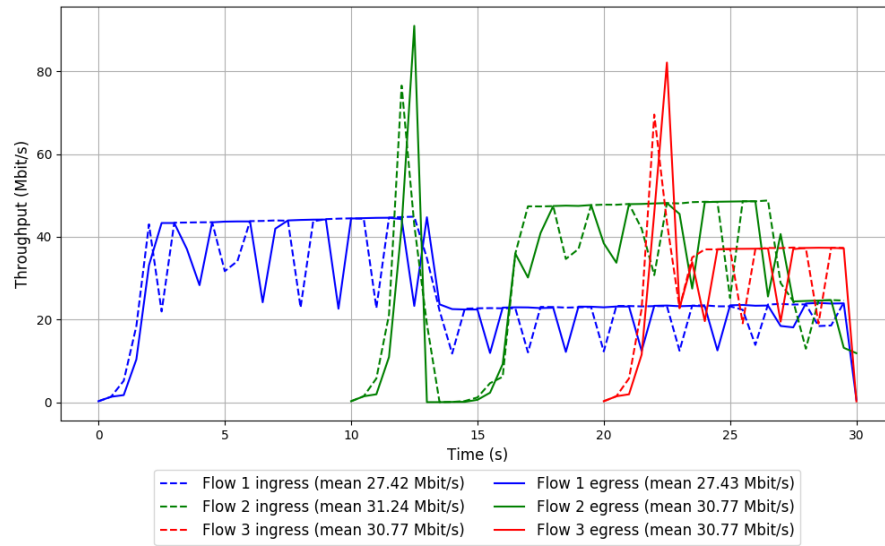
-- Flow 3:

Average throughput: 30.77 Mbit/s

95th percentile per-packet one-way delay: 142.626 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-01 07:28:45

End at: 2018-02-01 07:29:15

Below is generated by plot.py at 2018-02-01 09:10:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.16 Mbit/s

95th percentile per-packet one-way delay: 143.776 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 31.74 Mbit/s

95th percentile per-packet one-way delay: 143.438 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 66.79 Mbit/s

95th percentile per-packet one-way delay: 143.692 ms

Loss rate: 0.00%

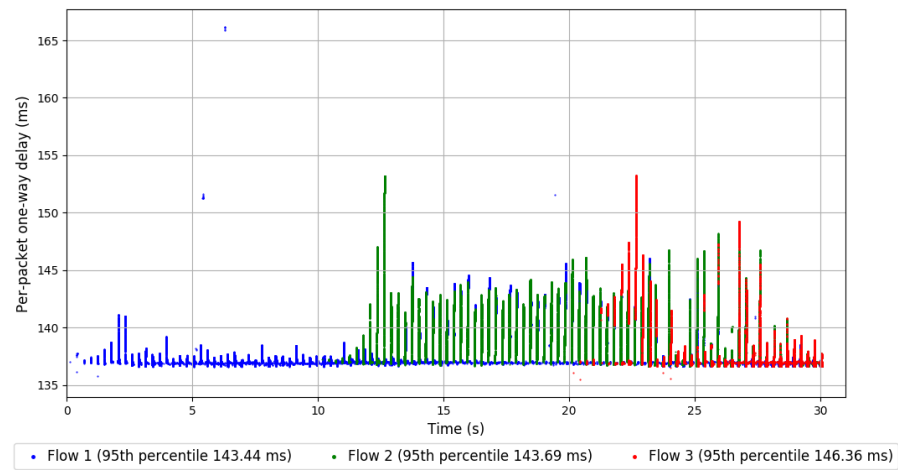
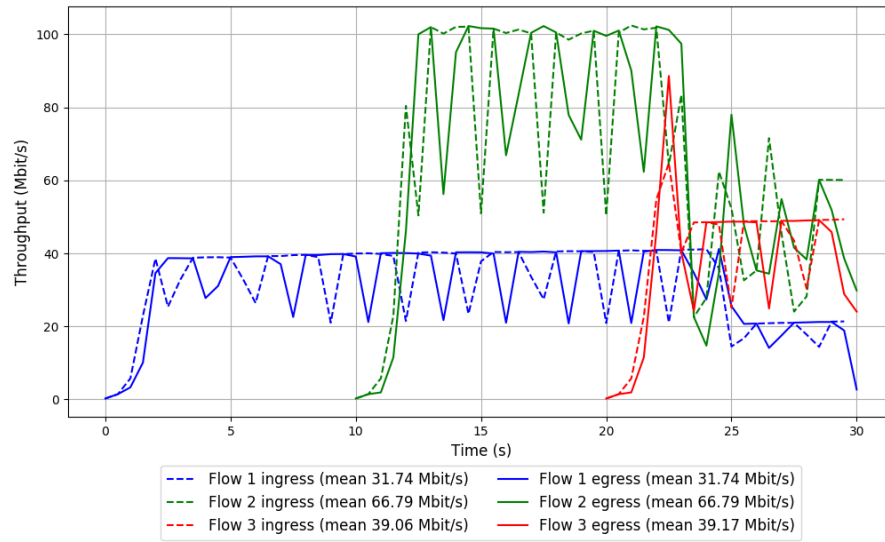
-- Flow 3:

Average throughput: 39.17 Mbit/s

95th percentile per-packet one-way delay: 146.356 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

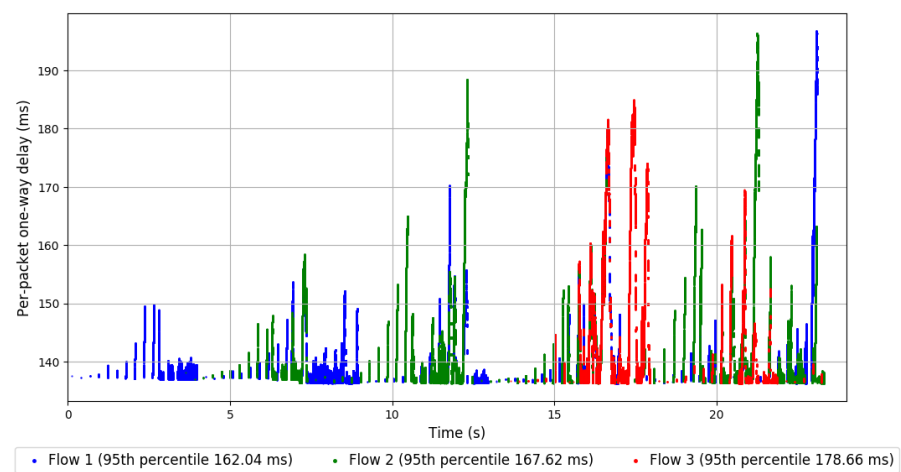
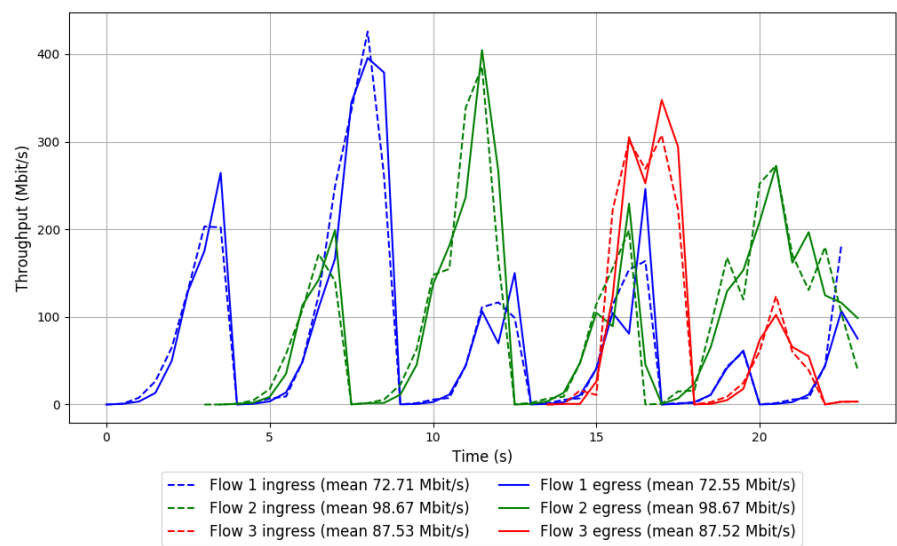


Run 1: Statistics of Verus

Start at: 2018-02-01 04:30:22

End at: 2018-02-01 04:30:52

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-01 04:49:30

End at: 2018-02-01 04:50:00

Below is generated by plot.py at 2018-02-01 09:10:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 208.48 Mbit/s

95th percentile per-packet one-way delay: 191.629 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 125.59 Mbit/s

95th percentile per-packet one-way delay: 191.798 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 110.29 Mbit/s

95th percentile per-packet one-way delay: 192.385 ms

Loss rate: 0.01%

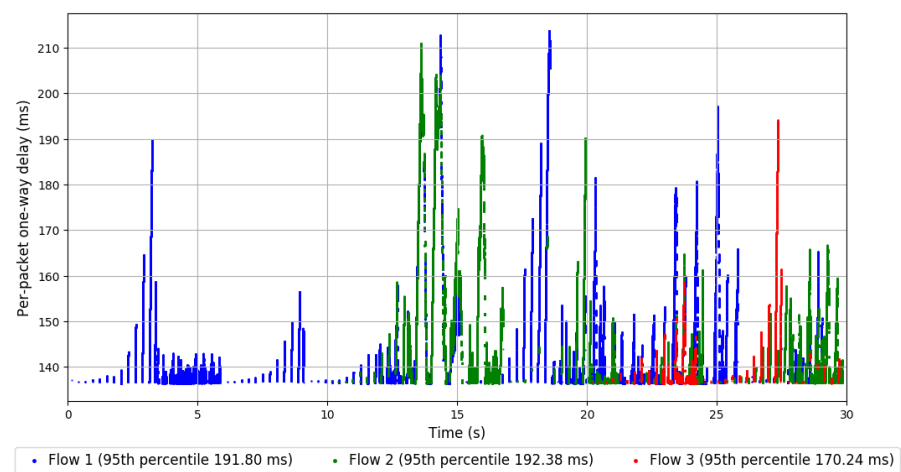
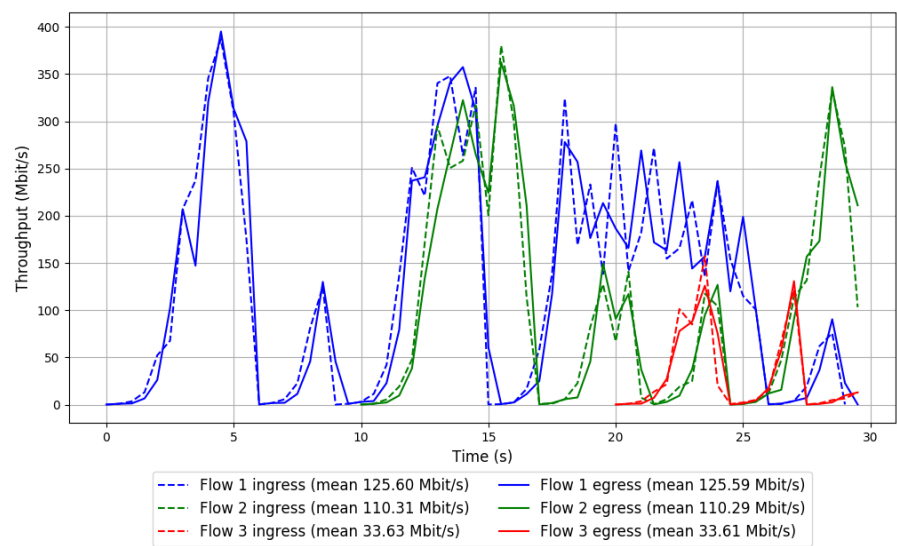
-- Flow 3:

Average throughput: 33.61 Mbit/s

95th percentile per-packet one-way delay: 170.240 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-01 05:08:33

End at: 2018-02-01 05:09:03

Below is generated by plot.py at 2018-02-01 09:10:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 182.15 Mbit/s

95th percentile per-packet one-way delay: 264.654 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 138.34 Mbit/s

95th percentile per-packet one-way delay: 264.343 ms

Loss rate: 1.14%

-- Flow 2:

Average throughput: 51.94 Mbit/s

95th percentile per-packet one-way delay: 289.036 ms

Loss rate: 2.54%

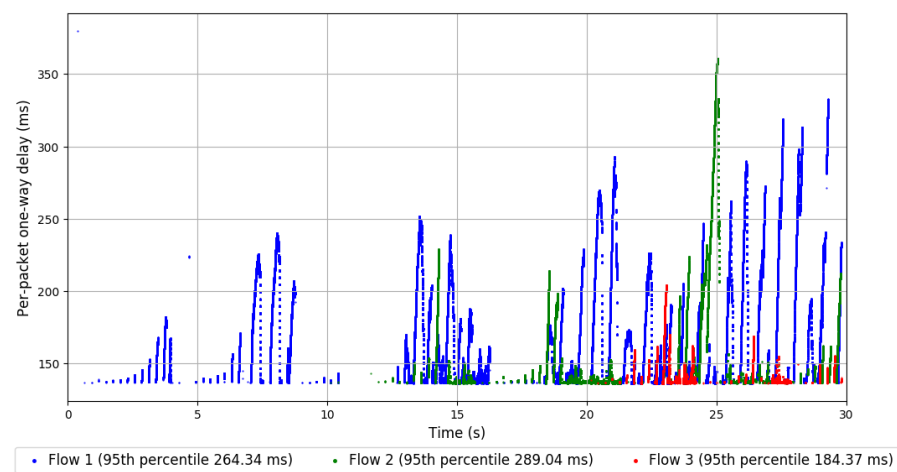
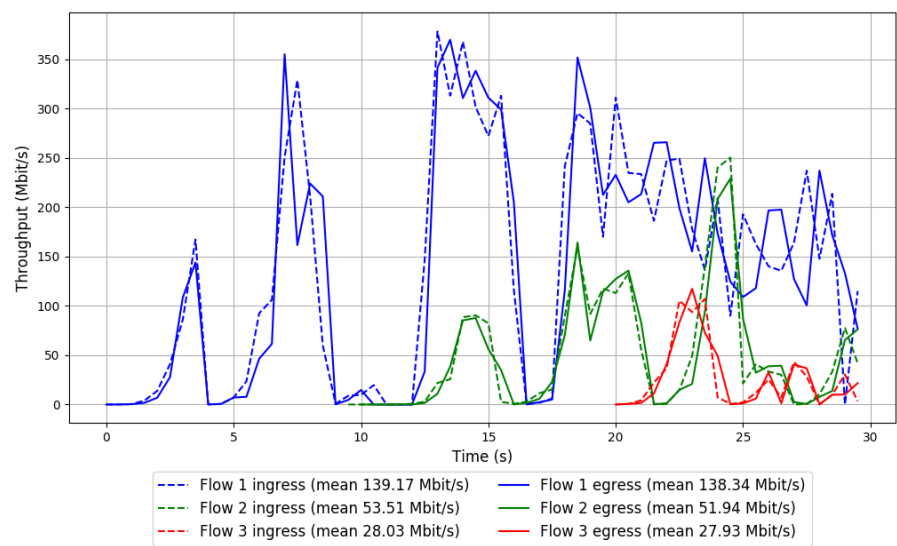
-- Flow 3:

Average throughput: 27.93 Mbit/s

95th percentile per-packet one-way delay: 184.370 ms

Loss rate: 0.36%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-01 05:26:42

End at: 2018-02-01 05:27:12

Below is generated by plot.py at 2018-02-01 09:10:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 259.69 Mbit/s

95th percentile per-packet one-way delay: 308.926 ms

Loss rate: 5.27%

-- Flow 1:

Average throughput: 77.53 Mbit/s

95th percentile per-packet one-way delay: 231.554 ms

Loss rate: 1.88%

-- Flow 2:

Average throughput: 261.63 Mbit/s

95th percentile per-packet one-way delay: 323.458 ms

Loss rate: 6.91%

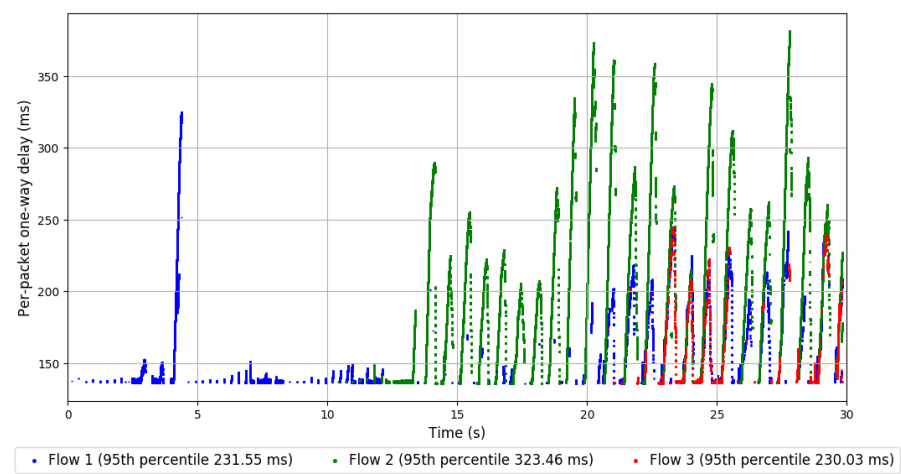
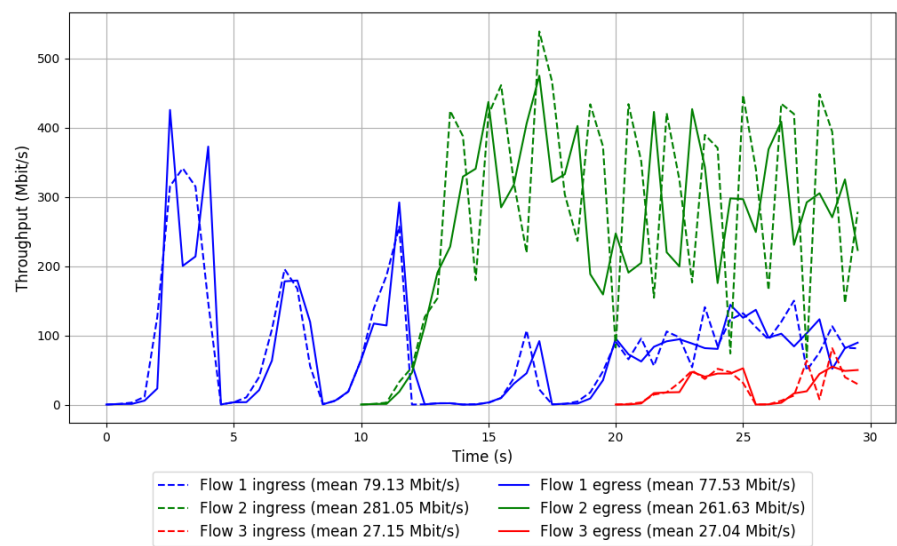
-- Flow 3:

Average throughput: 27.04 Mbit/s

95th percentile per-packet one-way delay: 230.031 ms

Loss rate: 0.95%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-01 05:46:15

End at: 2018-02-01 05:46:45

Below is generated by plot.py at 2018-02-01 09:10:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 185.29 Mbit/s

95th percentile per-packet one-way delay: 176.684 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 110.83 Mbit/s

95th percentile per-packet one-way delay: 162.879 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 31.97 Mbit/s

95th percentile per-packet one-way delay: 152.124 ms

Loss rate: 0.02%

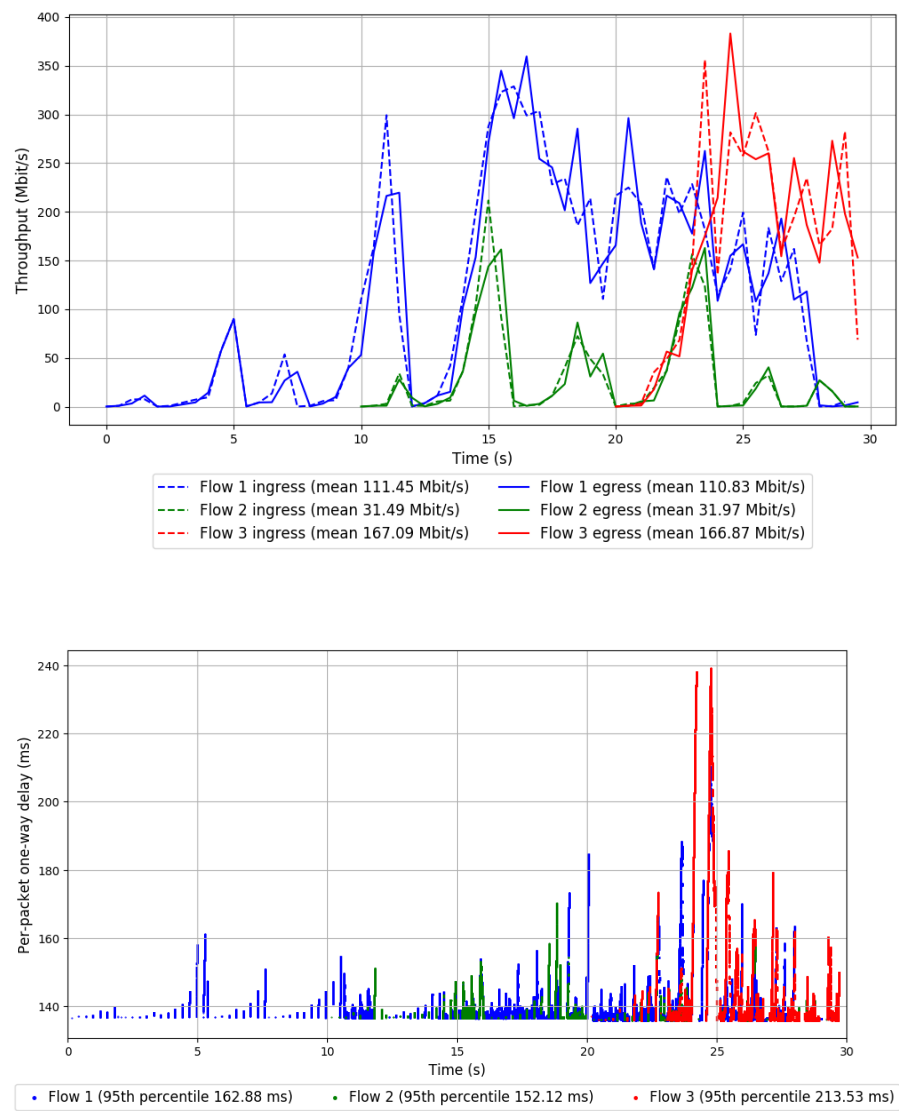
-- Flow 3:

Average throughput: 166.87 Mbit/s

95th percentile per-packet one-way delay: 213.525 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-01 06:05:37

End at: 2018-02-01 06:06:07

Below is generated by plot.py at 2018-02-01 09:10:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.08 Mbit/s

95th percentile per-packet one-way delay: 172.906 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 92.29 Mbit/s

95th percentile per-packet one-way delay: 171.705 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 38.48 Mbit/s

95th percentile per-packet one-way delay: 174.983 ms

Loss rate: 0.00%

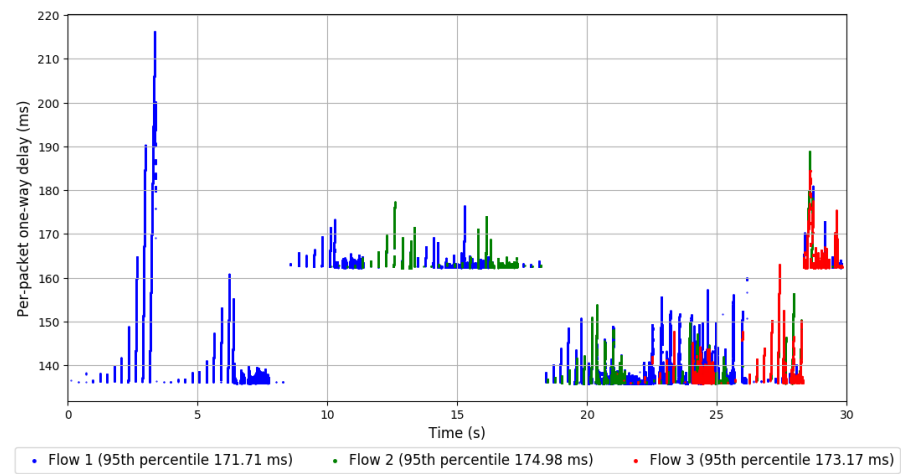
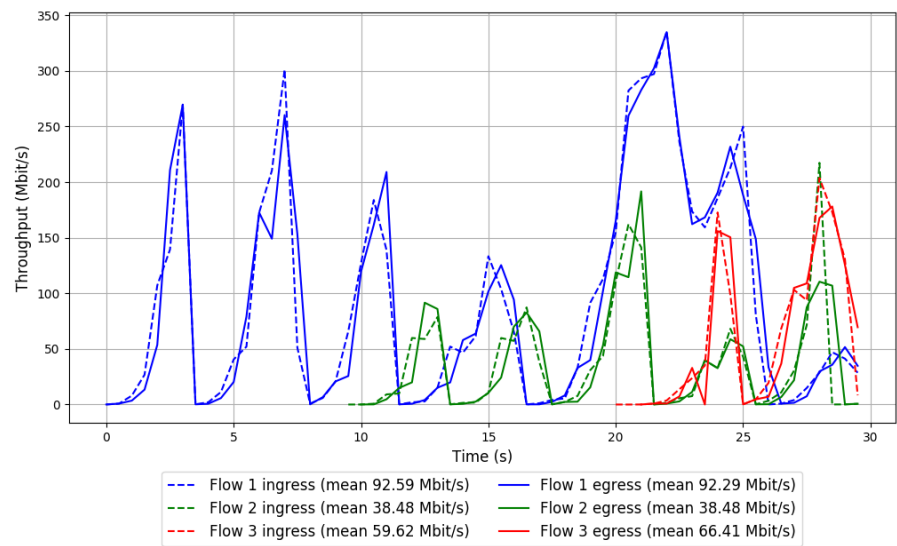
-- Flow 3:

Average throughput: 66.41 Mbit/s

95th percentile per-packet one-way delay: 173.166 ms

Loss rate: 0.16%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-01 06:24:36

End at: 2018-02-01 06:25:06

Below is generated by plot.py at 2018-02-01 09:12:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 267.32 Mbit/s

95th percentile per-packet one-way delay: 188.142 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 187.73 Mbit/s

95th percentile per-packet one-way delay: 168.894 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 84.95 Mbit/s

95th percentile per-packet one-way delay: 223.783 ms

Loss rate: 0.00%

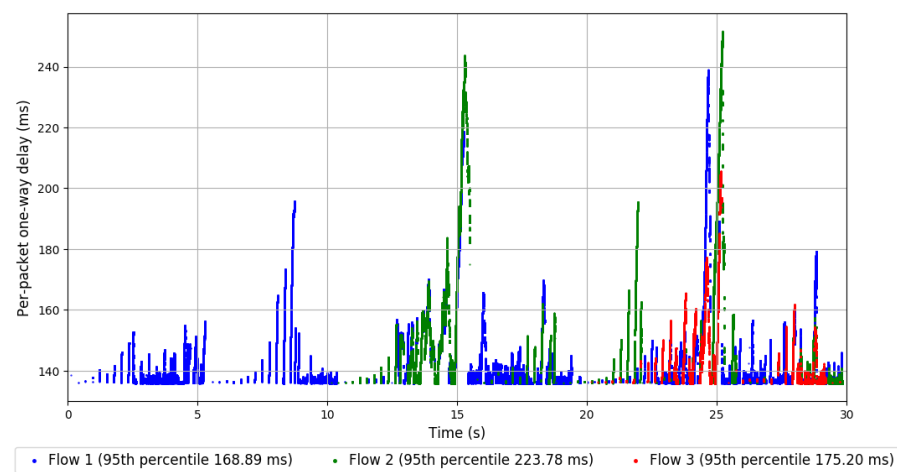
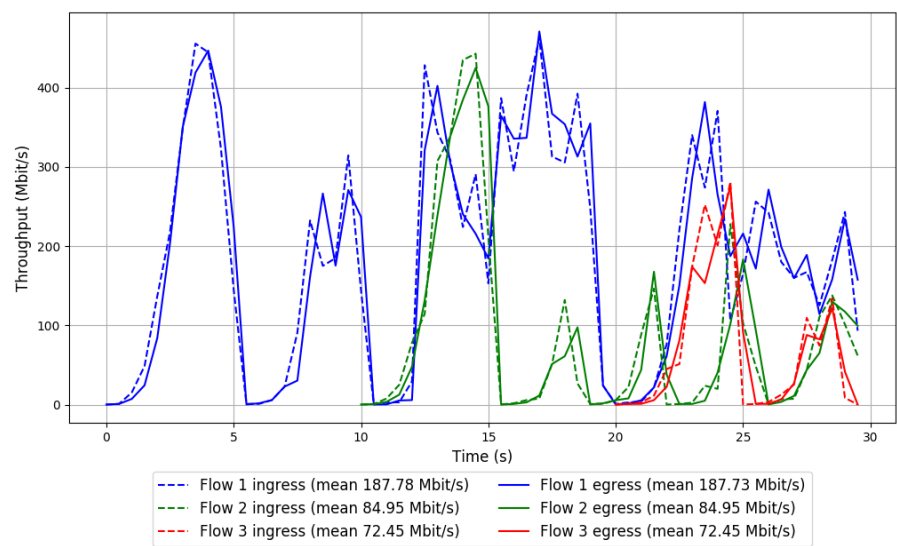
-- Flow 3:

Average throughput: 72.45 Mbit/s

95th percentile per-packet one-way delay: 175.201 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link

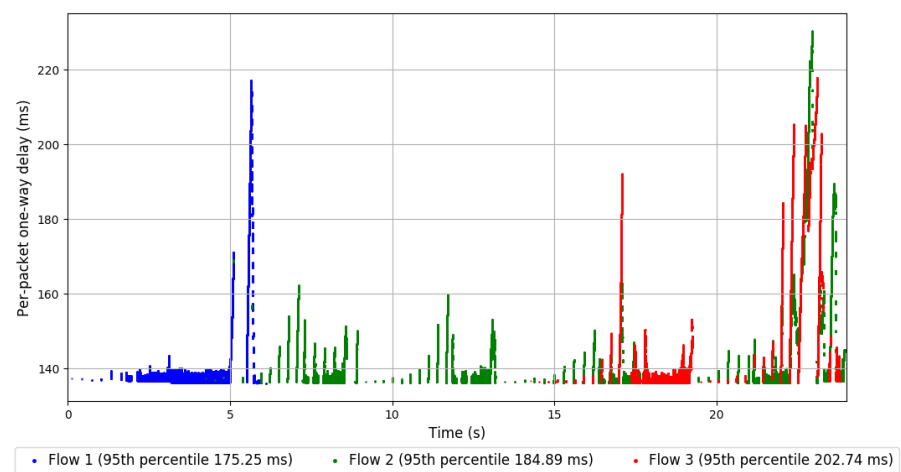
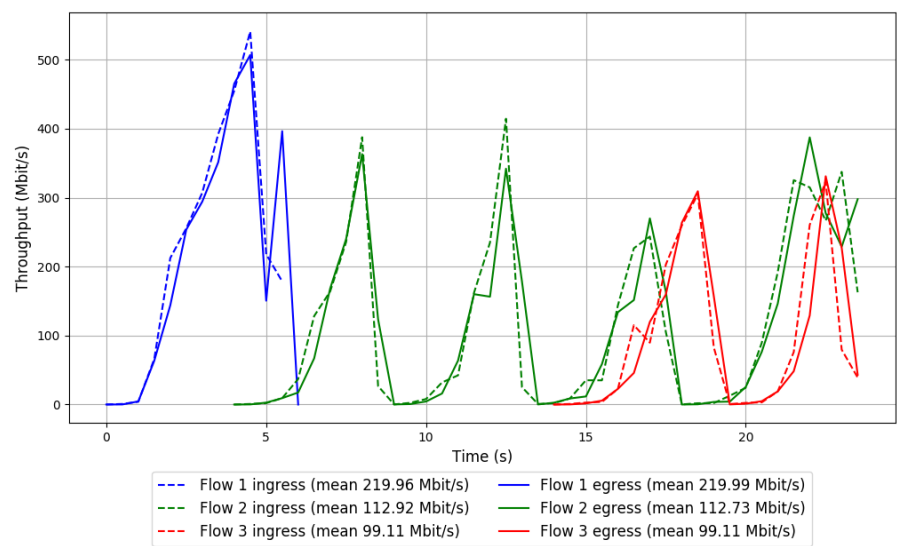


Run 8: Statistics of Verus

Start at: 2018-02-01 06:43:56

End at: 2018-02-01 06:44:26

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-01 07:03:04

End at: 2018-02-01 07:03:34

Below is generated by plot.py at 2018-02-01 09:12:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 209.17 Mbit/s

95th percentile per-packet one-way delay: 234.341 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 48.69 Mbit/s

95th percentile per-packet one-way delay: 161.354 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 197.76 Mbit/s

95th percentile per-packet one-way delay: 200.123 ms

Loss rate: 0.40%

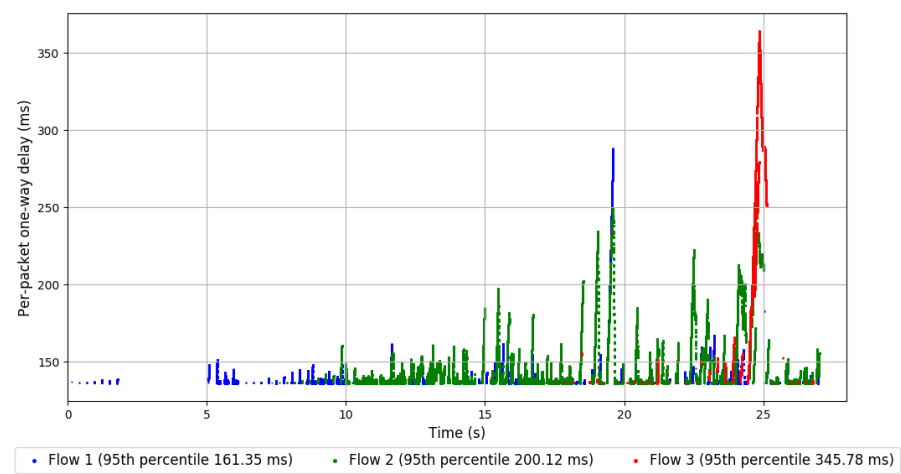
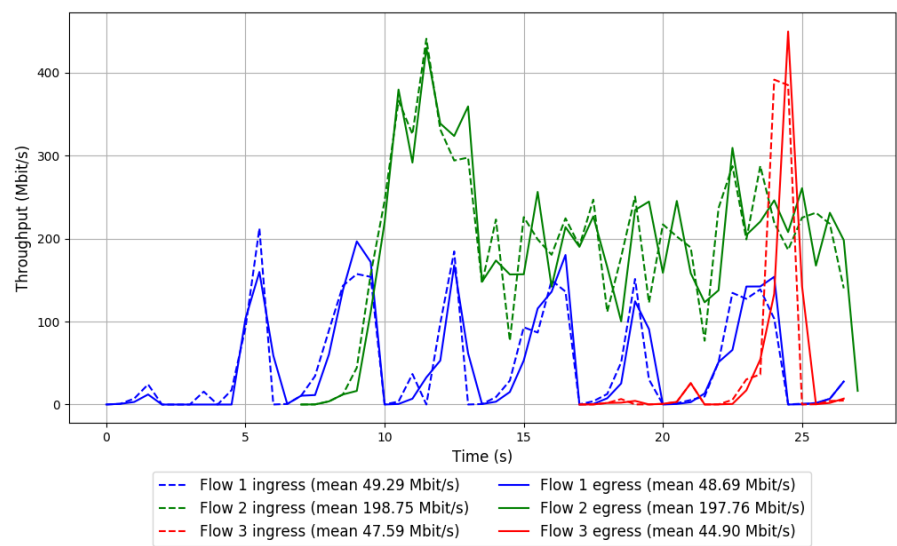
-- Flow 3:

Average throughput: 44.90 Mbit/s

95th percentile per-packet one-way delay: 345.780 ms

Loss rate: 5.68%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-01 07:22:04

End at: 2018-02-01 07:22:34

Below is generated by plot.py at 2018-02-01 09:15:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 361.59 Mbit/s

95th percentile per-packet one-way delay: 255.373 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 261.42 Mbit/s

95th percentile per-packet one-way delay: 238.506 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 143.86 Mbit/s

95th percentile per-packet one-way delay: 304.333 ms

Loss rate: 1.78%

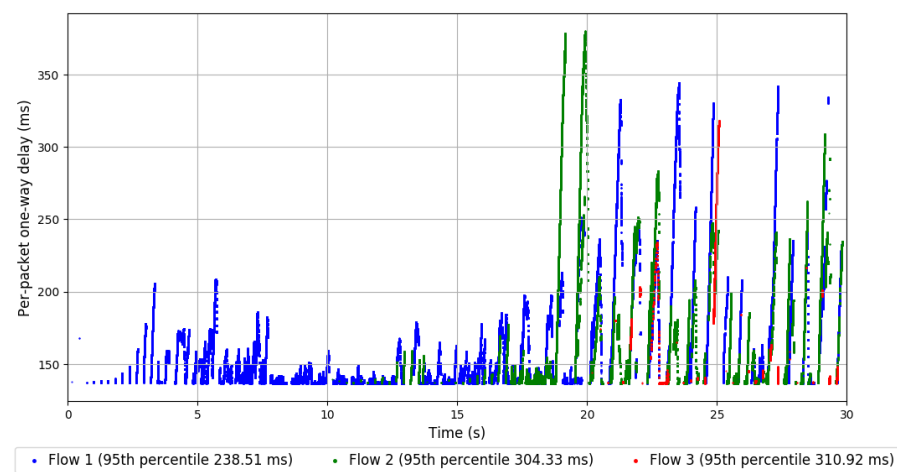
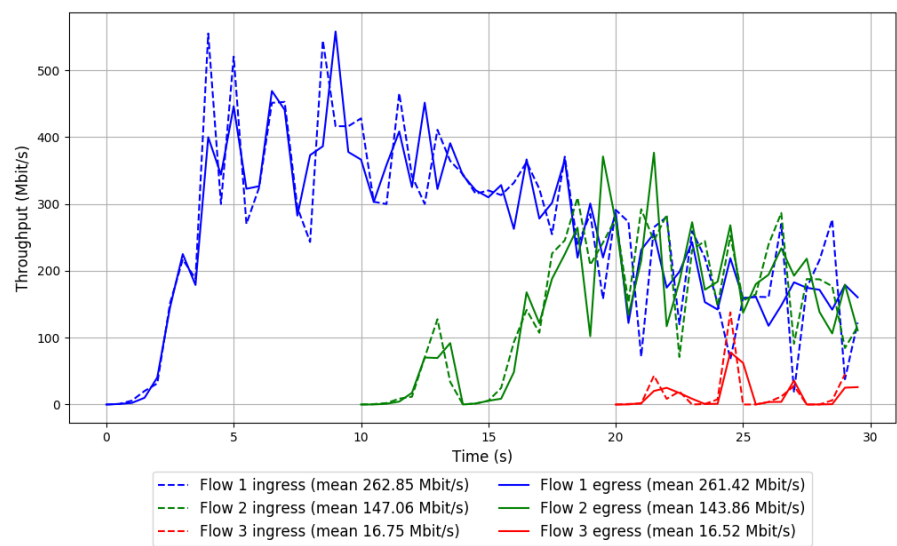
-- Flow 3:

Average throughput: 16.52 Mbit/s

95th percentile per-packet one-way delay: 310.920 ms

Loss rate: 1.33%

Run 10: Report of Verus — Data Link

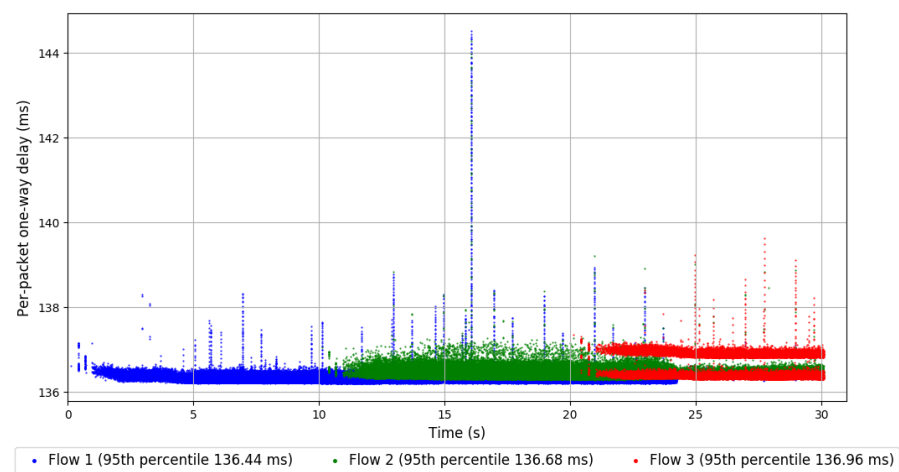
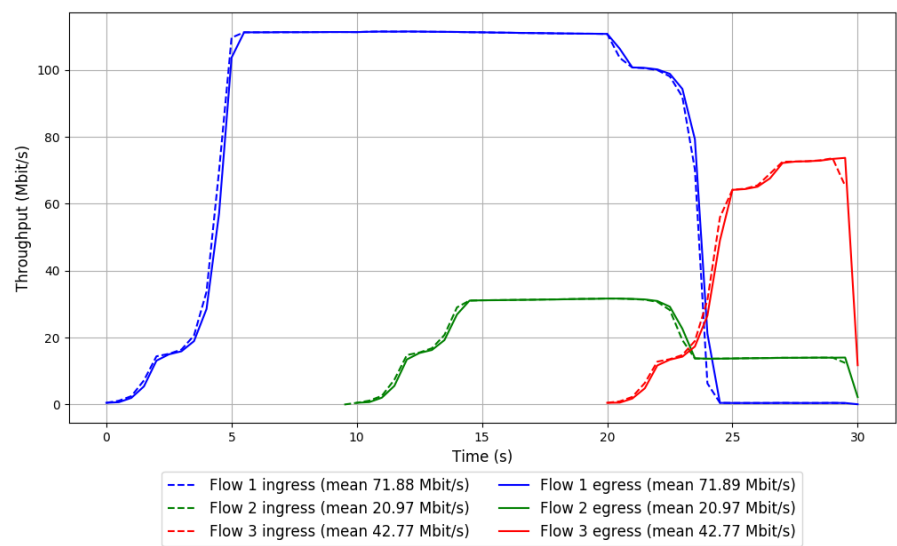


```
Run 1: Statistics of Copa

Start at: 2018-02-01 04:32:25
End at: 2018-02-01 04:32:55

# Below is generated by plot.py at 2018-02-01 09:15:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 100.04 Mbit/s
95th percentile per-packet one-way delay: 136.869 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 71.89 Mbit/s
95th percentile per-packet one-way delay: 136.438 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.97 Mbit/s
95th percentile per-packet one-way delay: 136.677 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 42.77 Mbit/s
95th percentile per-packet one-way delay: 136.961 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-01 04:51:48

End at: 2018-02-01 04:52:18

Below is generated by plot.py at 2018-02-01 09:15:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.61 Mbit/s

95th percentile per-packet one-way delay: 136.636 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 96.66 Mbit/s

95th percentile per-packet one-way delay: 136.585 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 30.81 Mbit/s

95th percentile per-packet one-way delay: 136.835 ms

Loss rate: 0.00%

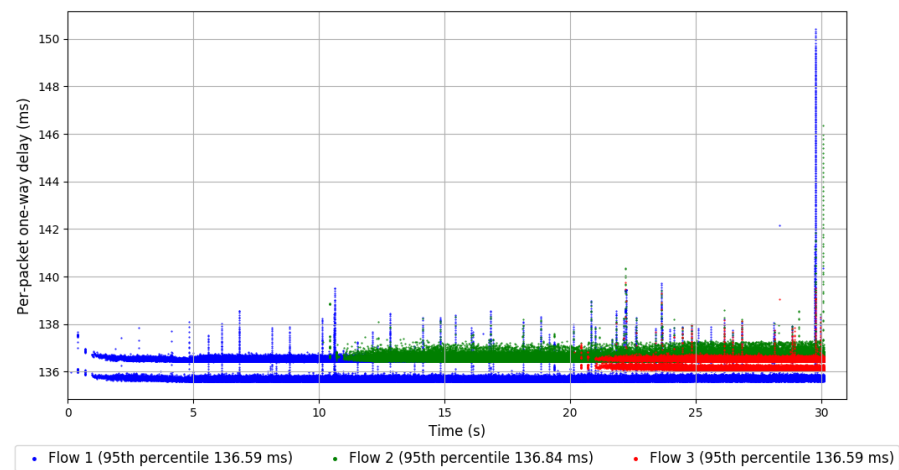
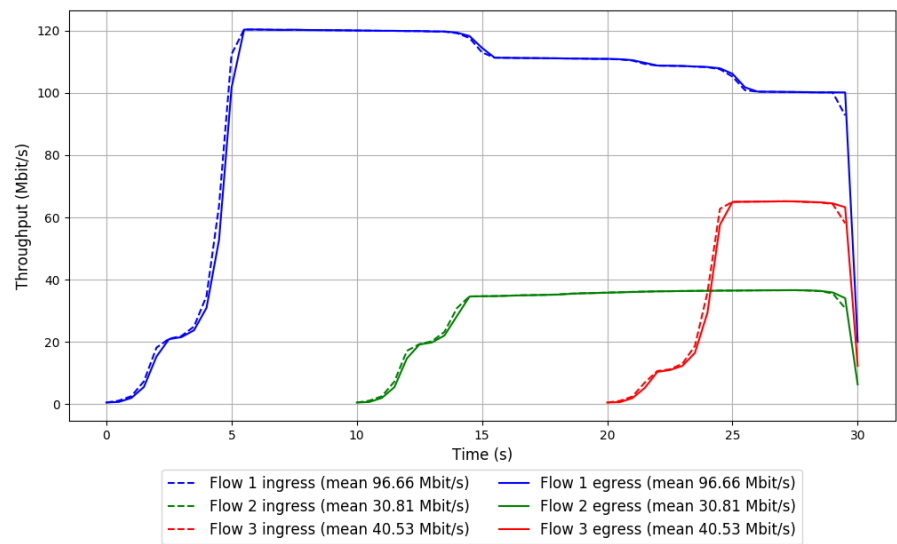
-- Flow 3:

Average throughput: 40.53 Mbit/s

95th percentile per-packet one-way delay: 136.588 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-01 05:10:46

End at: 2018-02-01 05:11:16

Below is generated by plot.py at 2018-02-01 09:15:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.42 Mbit/s

95th percentile per-packet one-way delay: 137.208 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 29.18 Mbit/s

95th percentile per-packet one-way delay: 137.273 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 25.94 Mbit/s

95th percentile per-packet one-way delay: 136.958 ms

Loss rate: 0.00%

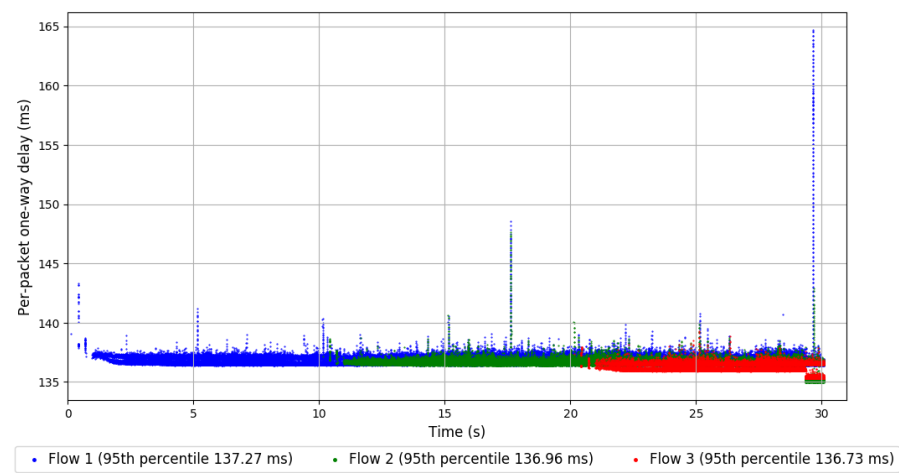
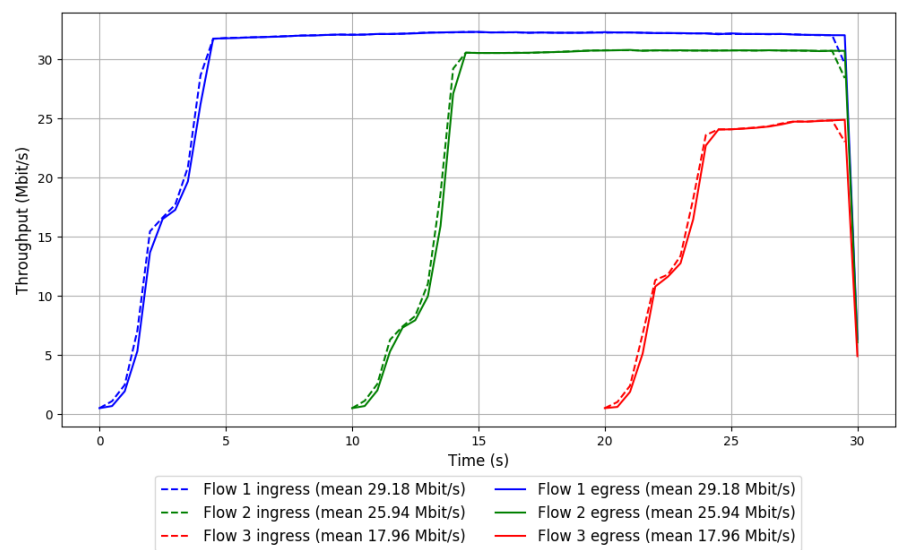
-- Flow 3:

Average throughput: 17.96 Mbit/s

95th percentile per-packet one-way delay: 136.733 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-01 05:29:03

End at: 2018-02-01 05:29:33

Below is generated by plot.py at 2018-02-01 09:15:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 150.45 Mbit/s

95th percentile per-packet one-way delay: 136.569 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 99.61 Mbit/s

95th percentile per-packet one-way delay: 136.565 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.70 Mbit/s

95th percentile per-packet one-way delay: 136.573 ms

Loss rate: 0.00%

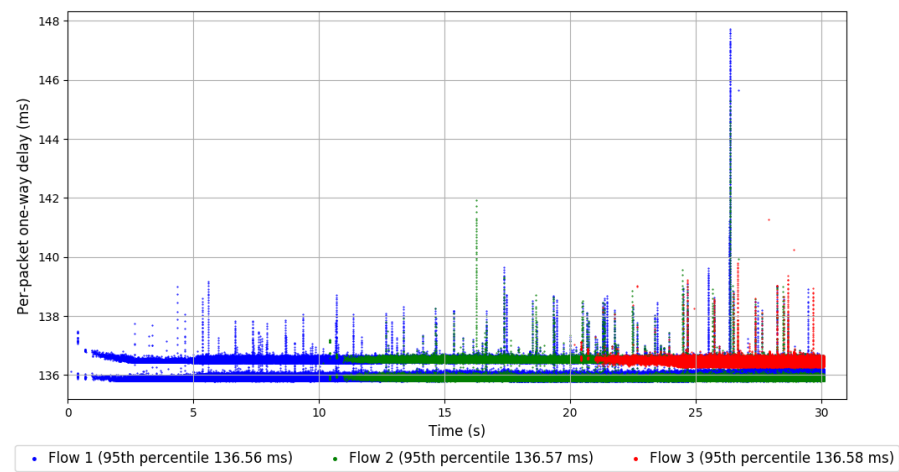
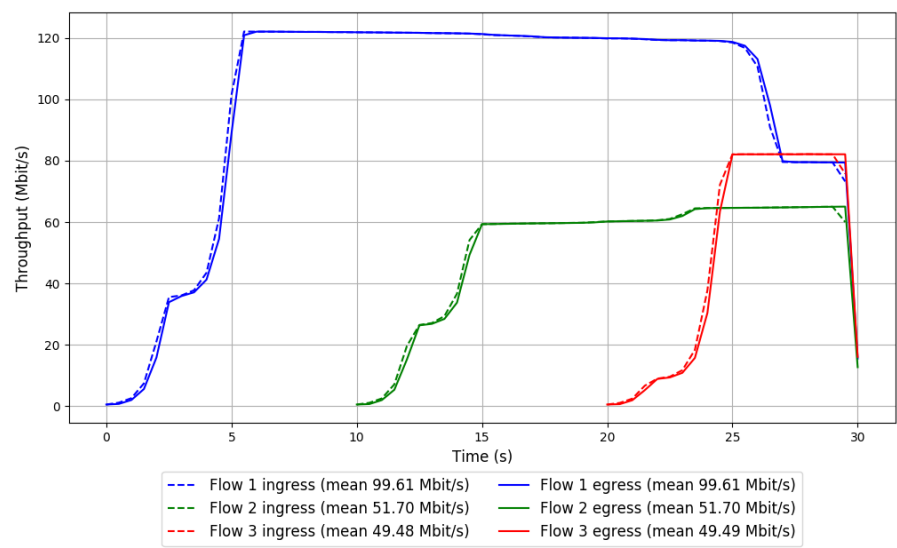
-- Flow 3:

Average throughput: 49.49 Mbit/s

95th percentile per-packet one-way delay: 136.580 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-01 05:48:31

End at: 2018-02-01 05:49:01

Below is generated by plot.py at 2018-02-01 09:15:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.72 Mbit/s

95th percentile per-packet one-way delay: 136.666 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 72.40 Mbit/s

95th percentile per-packet one-way delay: 136.589 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.25 Mbit/s

95th percentile per-packet one-way delay: 136.667 ms

Loss rate: 0.00%

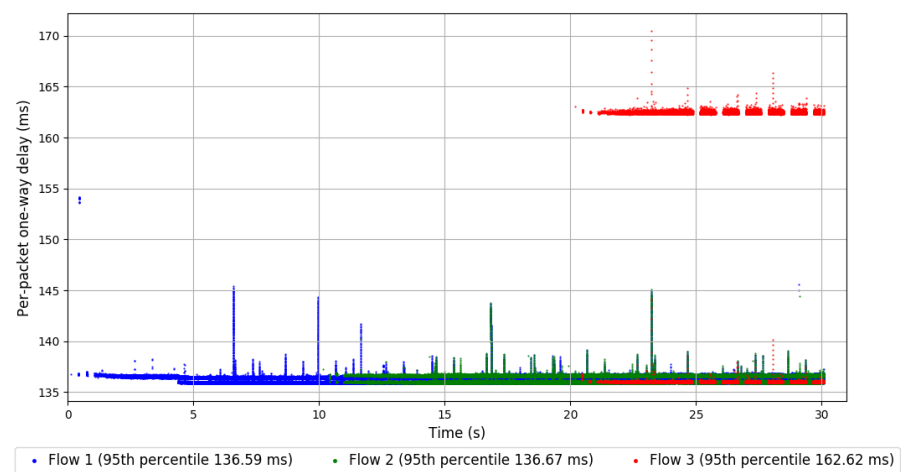
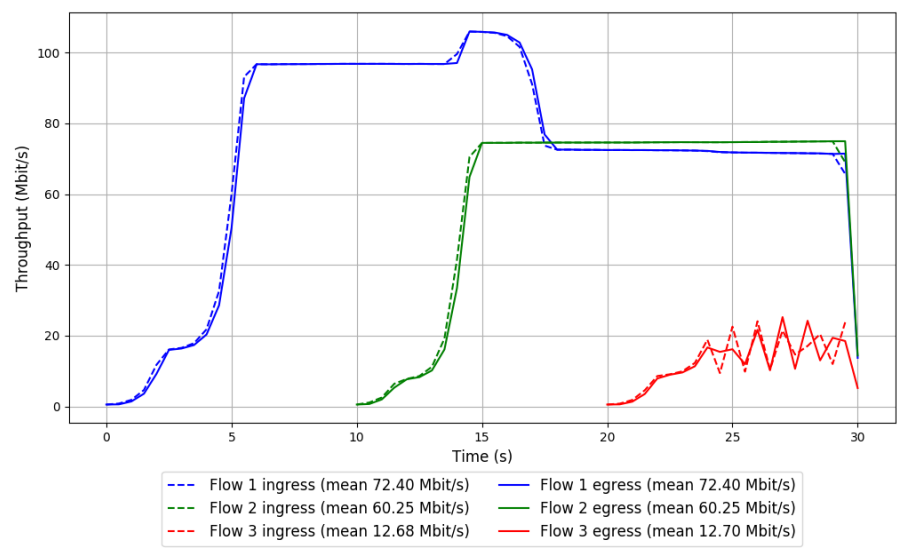
-- Flow 3:

Average throughput: 12.70 Mbit/s

95th percentile per-packet one-way delay: 162.622 ms

Loss rate: 0.04%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-01 06:07:47

End at: 2018-02-01 06:08:17

Below is generated by plot.py at 2018-02-01 09:15:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.29 Mbit/s

95th percentile per-packet one-way delay: 162.392 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 24.82 Mbit/s

95th percentile per-packet one-way delay: 162.377 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.07 Mbit/s

95th percentile per-packet one-way delay: 162.406 ms

Loss rate: 0.00%

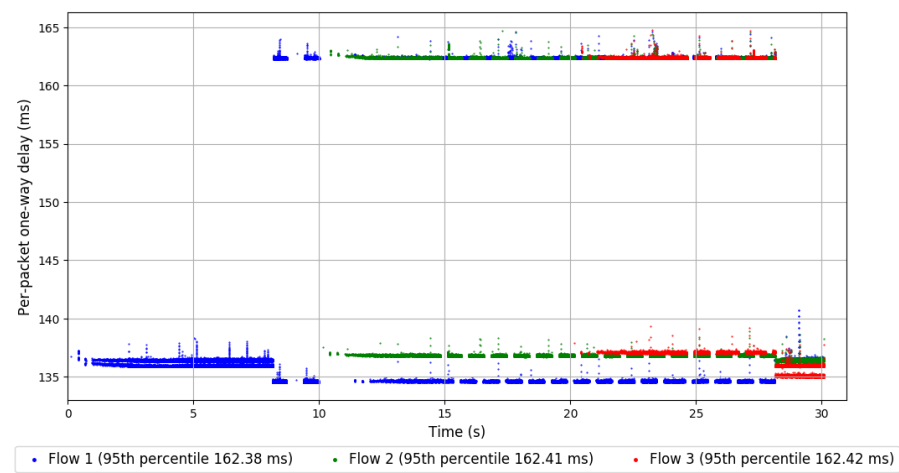
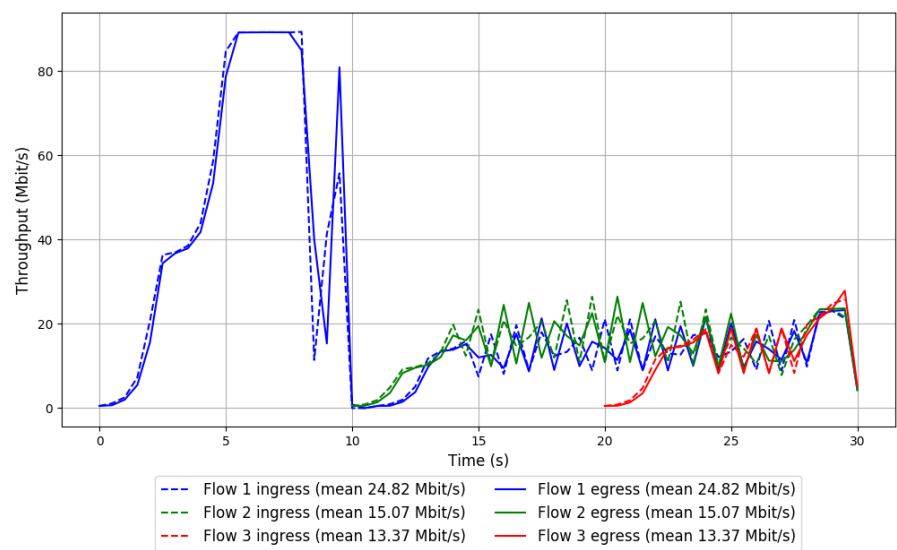
-- Flow 3:

Average throughput: 13.37 Mbit/s

95th percentile per-packet one-way delay: 162.420 ms

Loss rate: 0.02%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-01 06:26:58

End at: 2018-02-01 06:27:28

Below is generated by plot.py at 2018-02-01 09:15:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 109.41 Mbit/s

95th percentile per-packet one-way delay: 136.517 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 68.77 Mbit/s

95th percentile per-packet one-way delay: 136.494 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 32.00 Mbit/s

95th percentile per-packet one-way delay: 136.534 ms

Loss rate: 0.00%

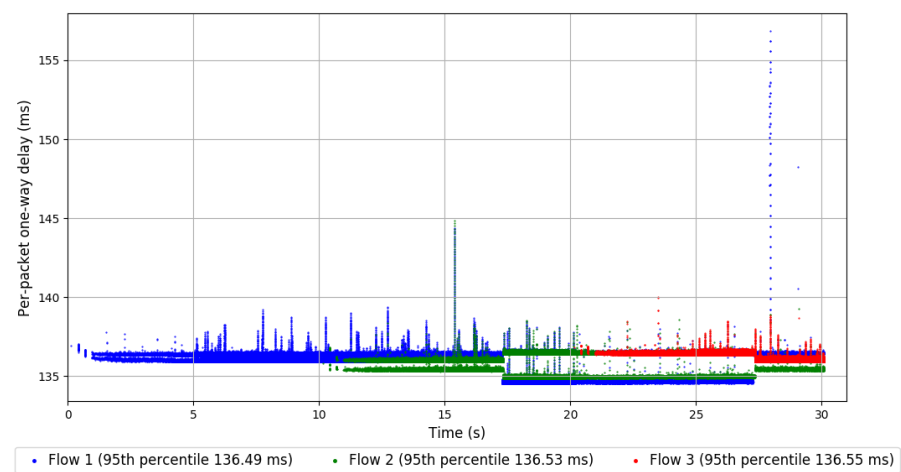
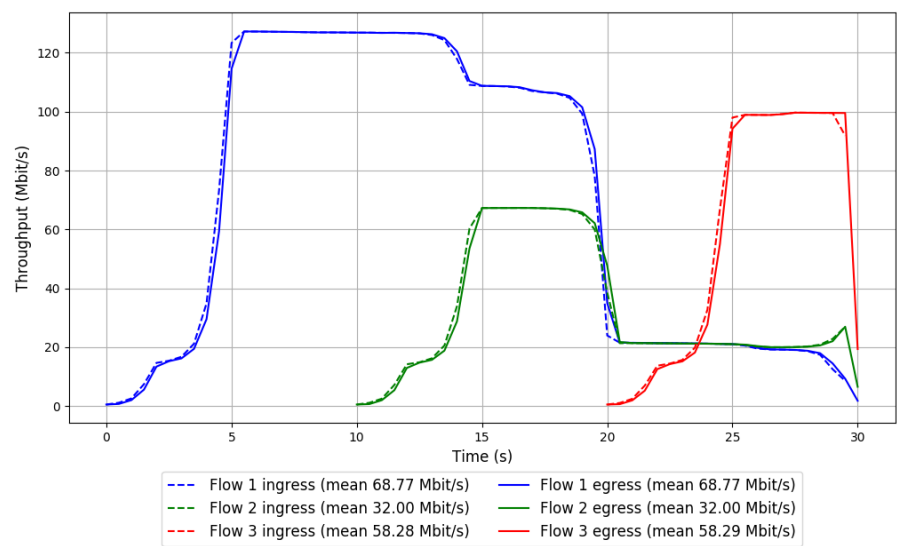
-- Flow 3:

Average throughput: 58.29 Mbit/s

95th percentile per-packet one-way delay: 136.552 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-01 06:46:09

End at: 2018-02-01 06:46:39

Below is generated by plot.py at 2018-02-01 09:15:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 98.07 Mbit/s

95th percentile per-packet one-way delay: 136.632 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 85.10 Mbit/s

95th percentile per-packet one-way delay: 136.630 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 136.307 ms

Loss rate: 91.98%

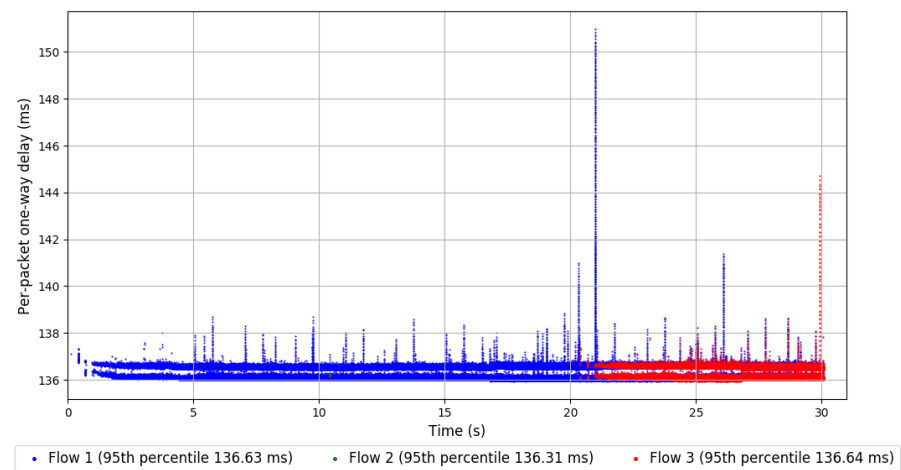
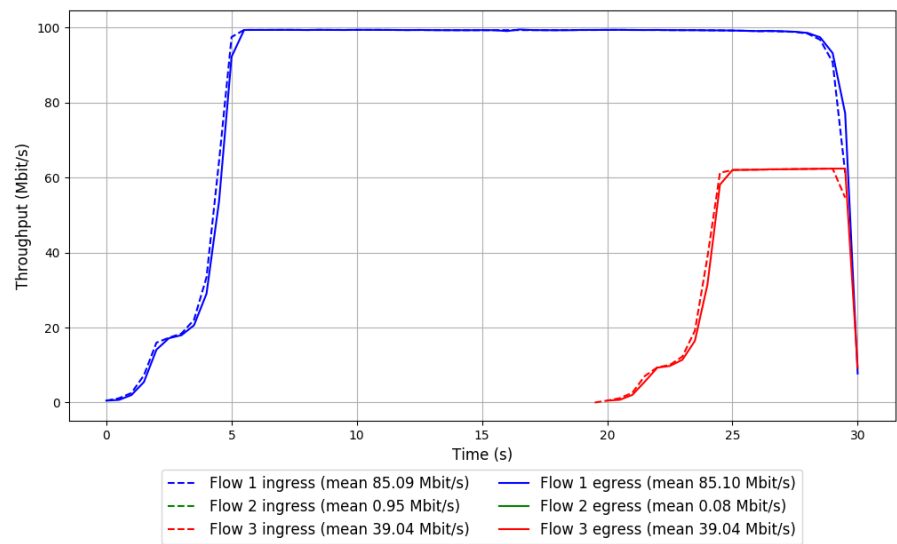
-- Flow 3:

Average throughput: 39.04 Mbit/s

95th percentile per-packet one-way delay: 136.644 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-01 07:05:20

End at: 2018-02-01 07:05:50

Below is generated by plot.py at 2018-02-01 09:15:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.62 Mbit/s

95th percentile per-packet one-way delay: 136.888 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.07 Mbit/s

95th percentile per-packet one-way delay: 136.812 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.88 Mbit/s

95th percentile per-packet one-way delay: 137.182 ms

Loss rate: 0.00%

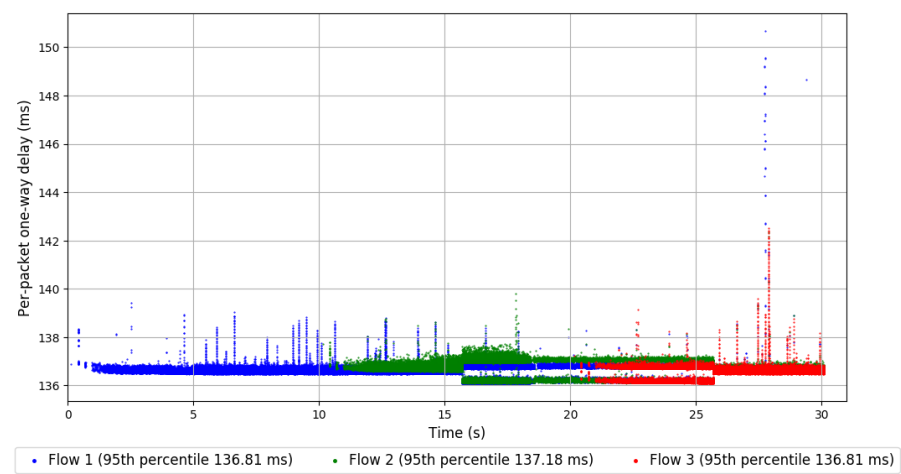
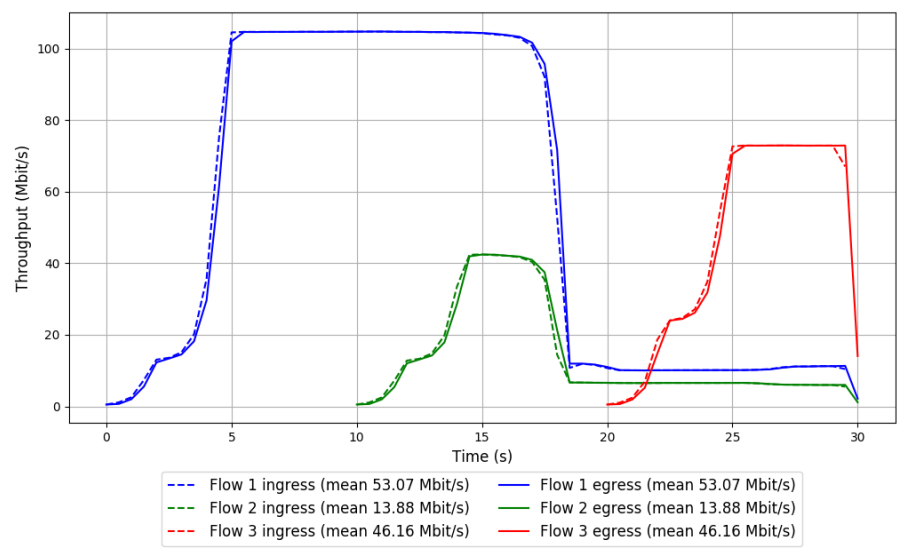
-- Flow 3:

Average throughput: 46.16 Mbit/s

95th percentile per-packet one-way delay: 136.806 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-01 07:24:33

End at: 2018-02-01 07:25:03

Below is generated by plot.py at 2018-02-01 09:16:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.07 Mbit/s

95th percentile per-packet one-way delay: 137.074 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.93 Mbit/s

95th percentile per-packet one-way delay: 137.106 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 49.59 Mbit/s

95th percentile per-packet one-way delay: 136.803 ms

Loss rate: 0.00%

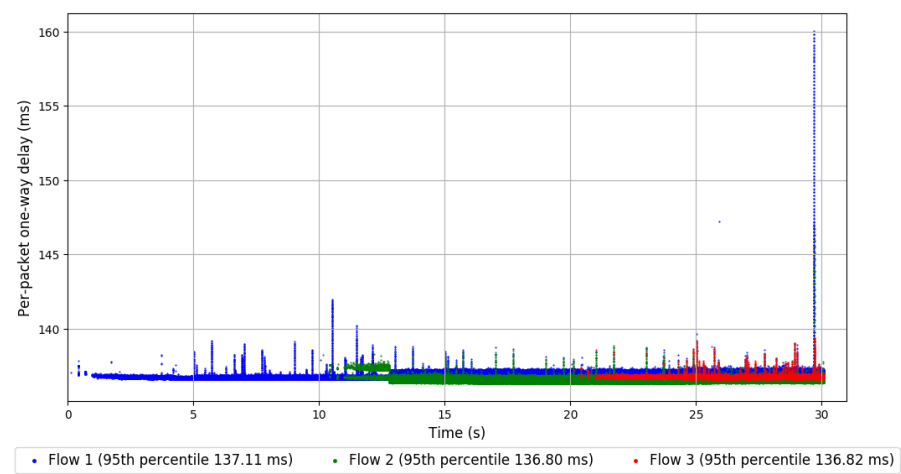
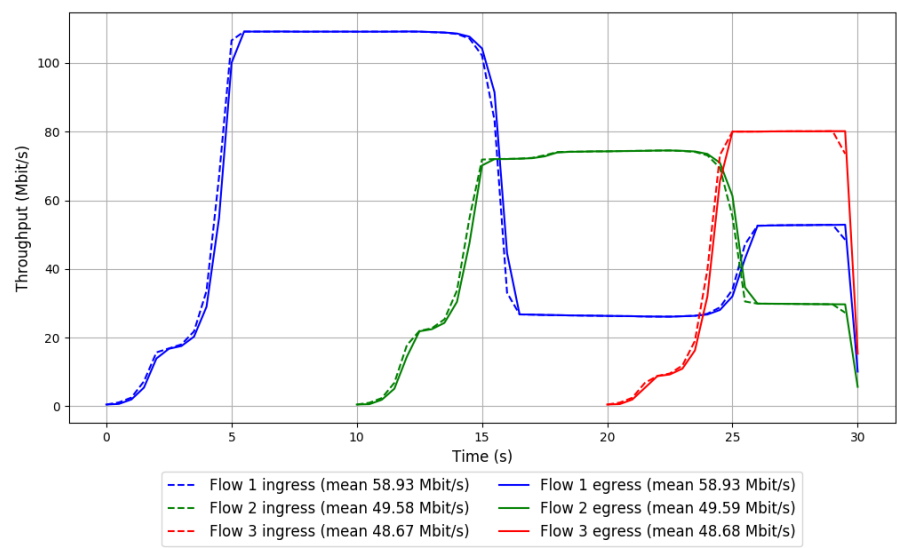
-- Flow 3:

Average throughput: 48.68 Mbit/s

95th percentile per-packet one-way delay: 136.817 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

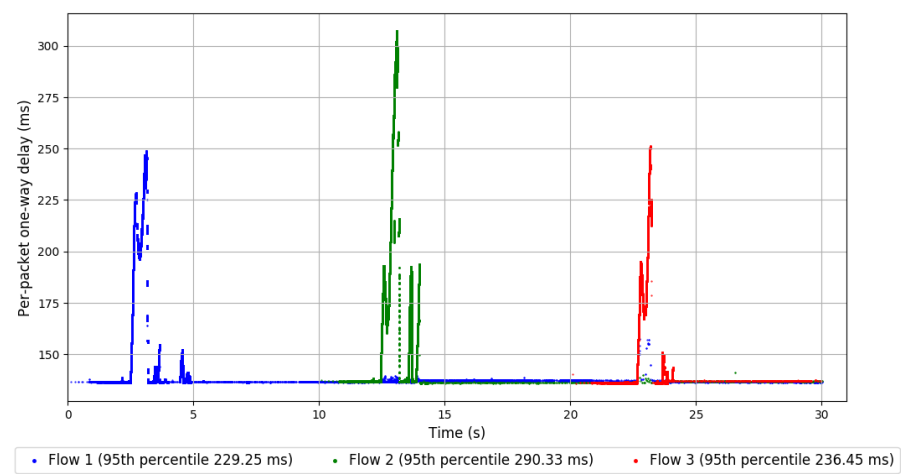
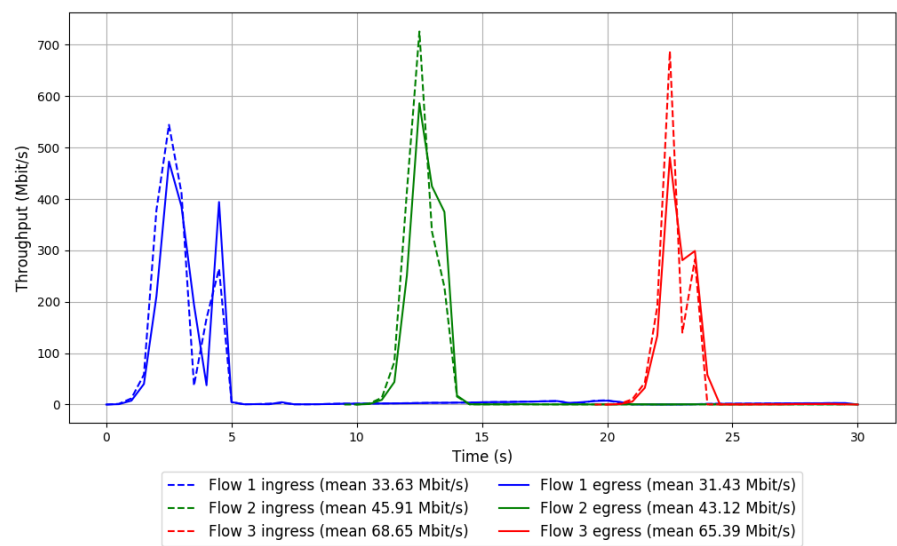


```
Run 1: Statistics of FillP

Start at: 2018-02-01 04:38:52
End at: 2018-02-01 04:39:22

# Below is generated by plot.py at 2018-02-01 09:16:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.90 Mbit/s
95th percentile per-packet one-way delay: 254.796 ms
Loss rate: 5.91%
-- Flow 1:
Average throughput: 31.43 Mbit/s
95th percentile per-packet one-way delay: 229.255 ms
Loss rate: 6.54%
-- Flow 2:
Average throughput: 43.12 Mbit/s
95th percentile per-packet one-way delay: 290.334 ms
Loss rate: 6.07%
-- Flow 3:
Average throughput: 65.39 Mbit/s
95th percentile per-packet one-way delay: 236.454 ms
Loss rate: 4.78%
```


Run 1: Report of FillP — Data Link

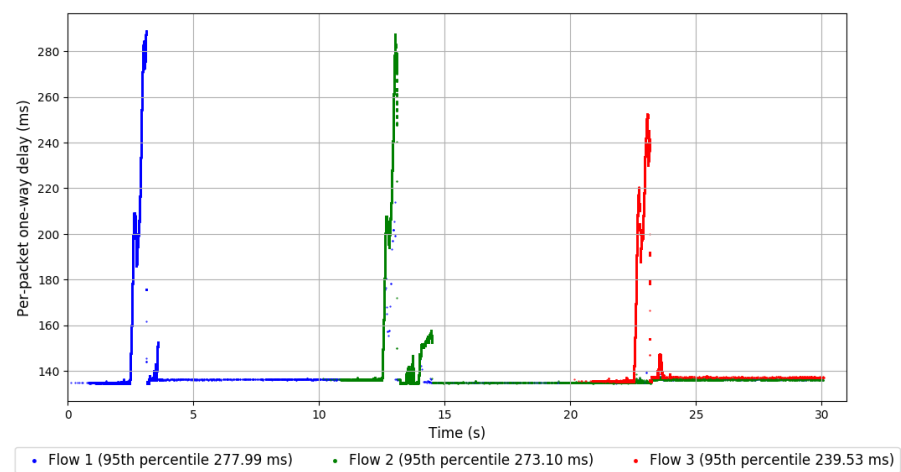
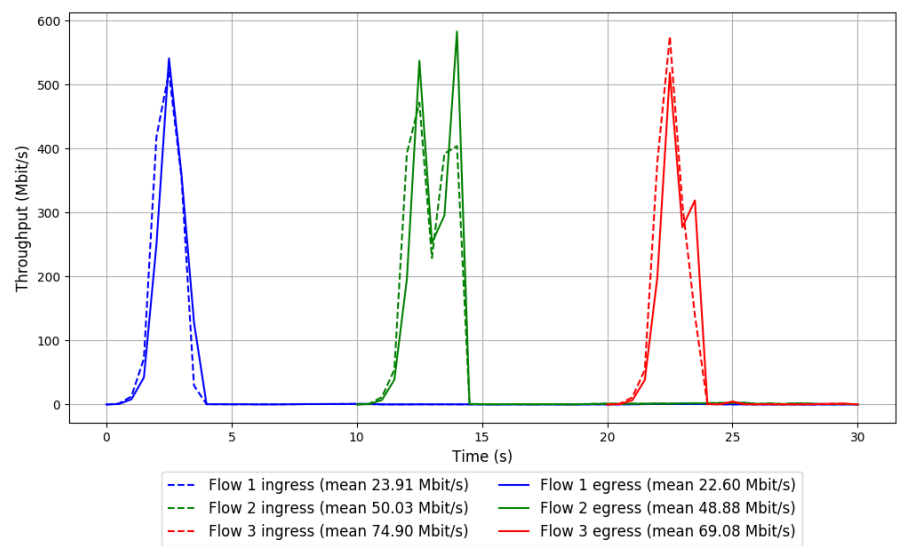


```
Run 2: Statistics of FillP

Start at: 2018-02-01 04:58:02
End at: 2018-02-01 04:58:32

# Below is generated by plot.py at 2018-02-01 09:17:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.93 Mbit/s
95th percentile per-packet one-way delay: 269.636 ms
Loss rate: 4.87%
-- Flow 1:
Average throughput: 22.60 Mbit/s
95th percentile per-packet one-way delay: 277.992 ms
Loss rate: 5.46%
-- Flow 2:
Average throughput: 48.88 Mbit/s
95th percentile per-packet one-way delay: 273.098 ms
Loss rate: 2.29%
-- Flow 3:
Average throughput: 69.08 Mbit/s
95th percentile per-packet one-way delay: 239.535 ms
Loss rate: 7.76%
```

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-01 05:16:38

End at: 2018-02-01 05:17:08

Below is generated by plot.py at 2018-02-01 09:17:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.33 Mbit/s

95th percentile per-packet one-way delay: 349.236 ms

Loss rate: 26.72%

-- Flow 1:

Average throughput: 22.12 Mbit/s

95th percentile per-packet one-way delay: 371.699 ms

Loss rate: 32.56%

-- Flow 2:

Average throughput: 30.78 Mbit/s

95th percentile per-packet one-way delay: 331.113 ms

Loss rate: 26.93%

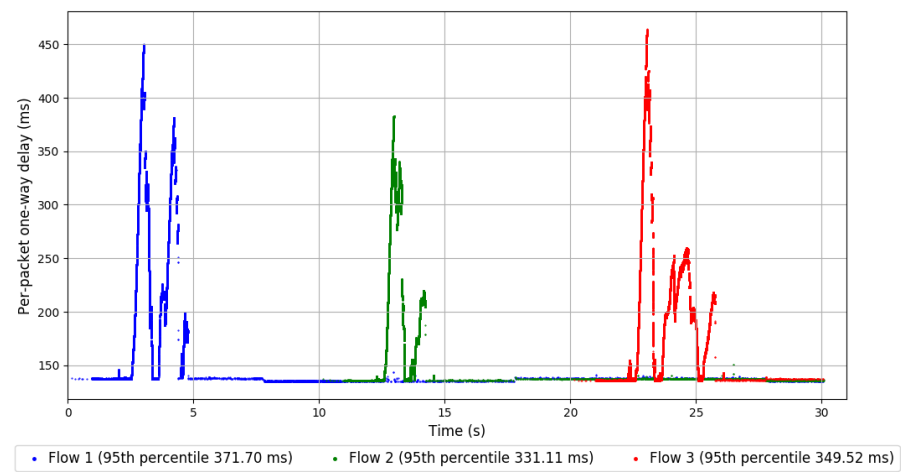
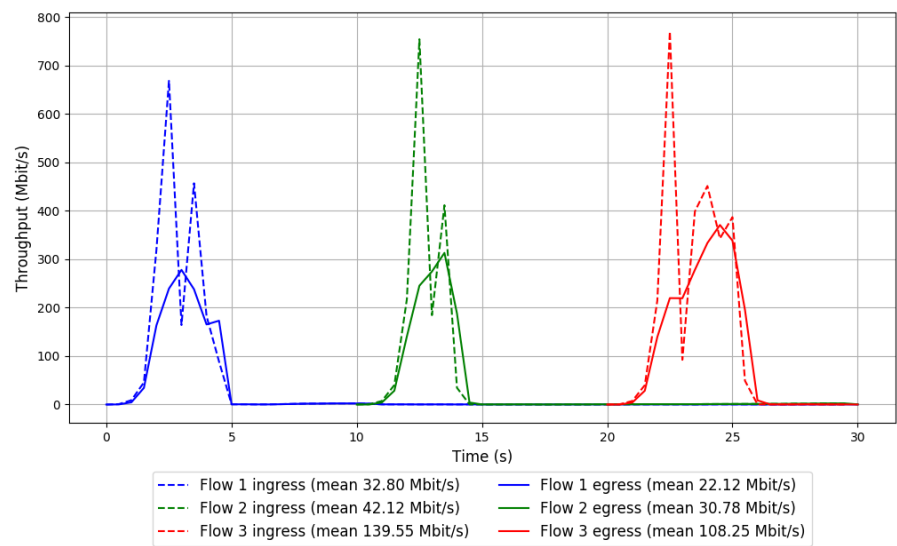
-- Flow 3:

Average throughput: 108.25 Mbit/s

95th percentile per-packet one-way delay: 349.524 ms

Loss rate: 22.43%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-01 05:35:05

End at: 2018-02-01 05:35:35

Below is generated by plot.py at 2018-02-01 09:18:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.99 Mbit/s

95th percentile per-packet one-way delay: 284.245 ms

Loss rate: 3.70%

-- Flow 1:

Average throughput: 32.17 Mbit/s

95th percentile per-packet one-way delay: 241.891 ms

Loss rate: 2.51%

-- Flow 2:

Average throughput: 50.06 Mbit/s

95th percentile per-packet one-way delay: 291.662 ms

Loss rate: 0.94%

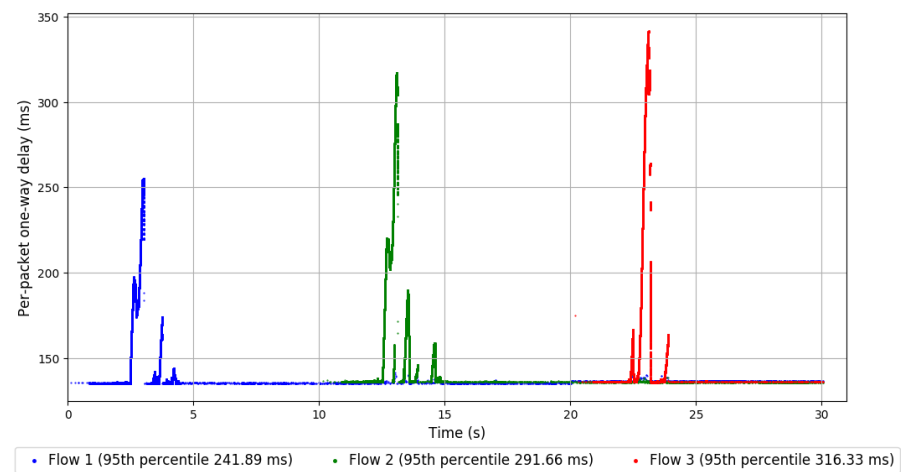
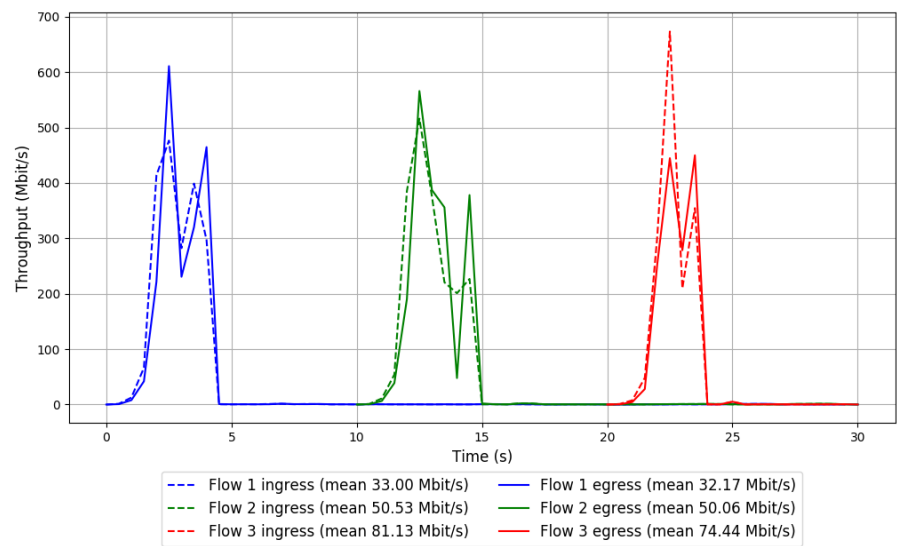
-- Flow 3:

Average throughput: 74.44 Mbit/s

95th percentile per-packet one-way delay: 316.335 ms

Loss rate: 8.61%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-01 05:54:34

End at: 2018-02-01 05:55:04

Below is generated by plot.py at 2018-02-01 09:18:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.67 Mbit/s

95th percentile per-packet one-way delay: 326.503 ms

Loss rate: 10.45%

-- Flow 1:

Average throughput: 23.75 Mbit/s

95th percentile per-packet one-way delay: 335.747 ms

Loss rate: 5.05%

-- Flow 2:

Average throughput: 48.42 Mbit/s

95th percentile per-packet one-way delay: 250.457 ms

Loss rate: 7.66%

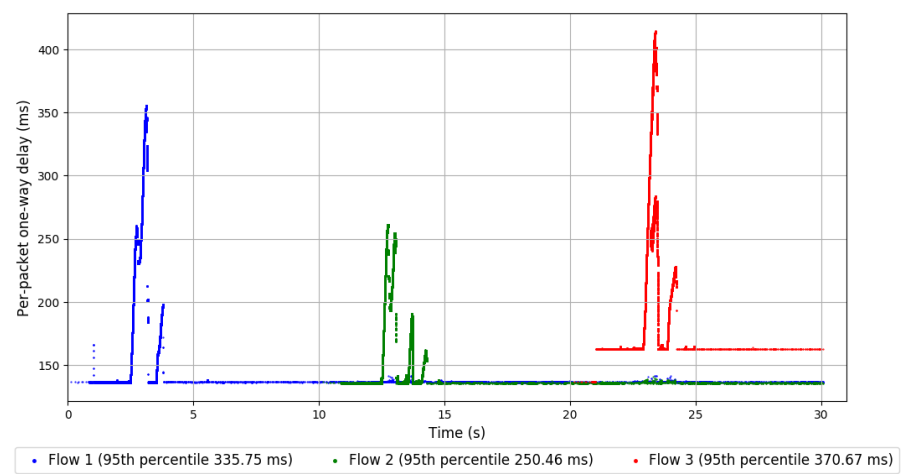
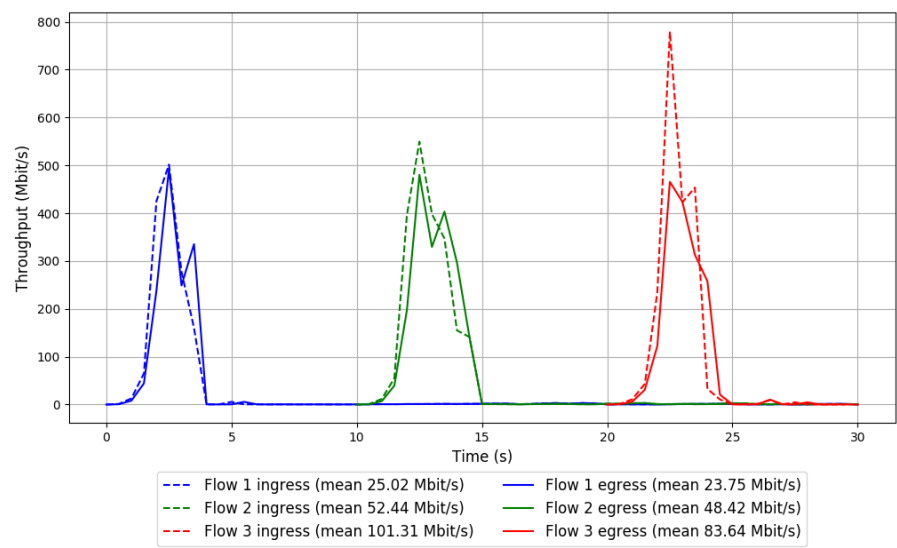
-- Flow 3:

Average throughput: 83.64 Mbit/s

95th percentile per-packet one-way delay: 370.668 ms

Loss rate: 17.39%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-01 06:13:50

End at: 2018-02-01 06:14:20

Below is generated by plot.py at 2018-02-01 09:18:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.00 Mbit/s

95th percentile per-packet one-way delay: 266.186 ms

Loss rate: 9.41%

-- Flow 1:

Average throughput: 21.81 Mbit/s

95th percentile per-packet one-way delay: 261.412 ms

Loss rate: 12.06%

-- Flow 2:

Average throughput: 32.32 Mbit/s

95th percentile per-packet one-way delay: 272.170 ms

Loss rate: 10.97%

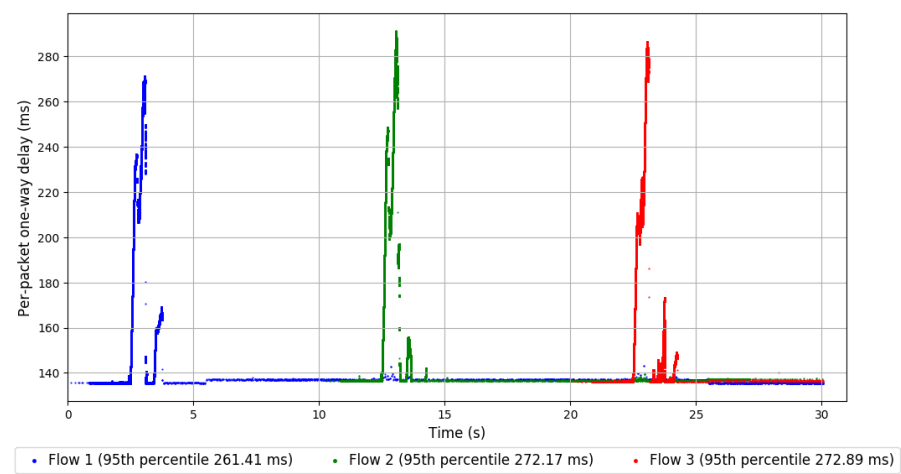
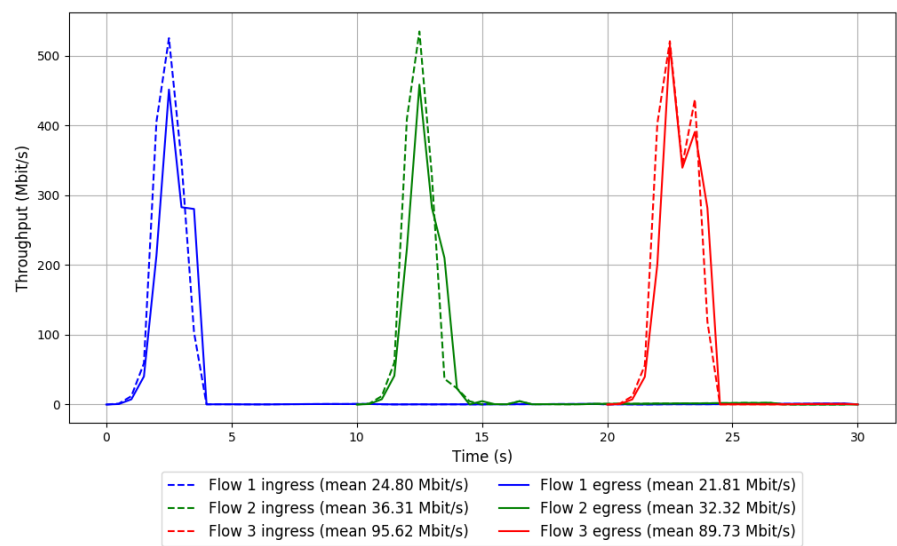
-- Flow 3:

Average throughput: 89.73 Mbit/s

95th percentile per-packet one-way delay: 272.887 ms

Loss rate: 6.16%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-01 06:33:14

End at: 2018-02-01 06:33:44

Below is generated by plot.py at 2018-02-01 09:18:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.39 Mbit/s

95th percentile per-packet one-way delay: 285.652 ms

Loss rate: 8.52%

-- Flow 1:

Average throughput: 22.69 Mbit/s

95th percentile per-packet one-way delay: 245.472 ms

Loss rate: 6.62%

-- Flow 2:

Average throughput: 37.01 Mbit/s

95th percentile per-packet one-way delay: 295.050 ms

Loss rate: 11.34%

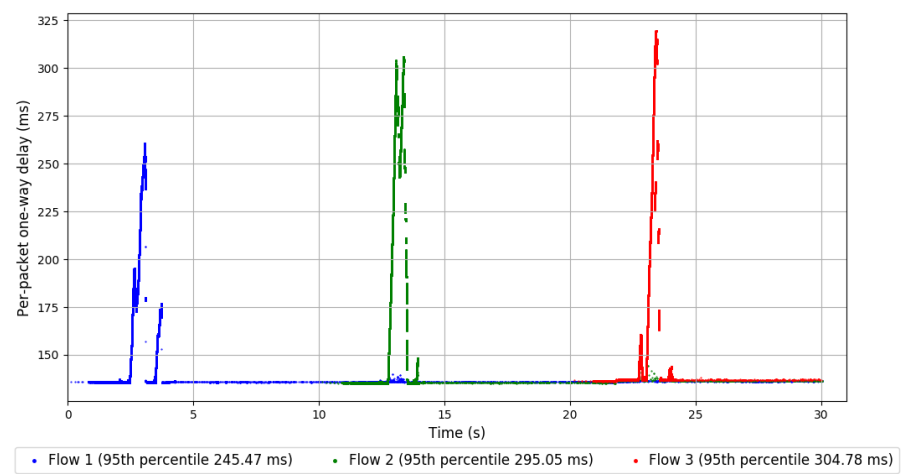
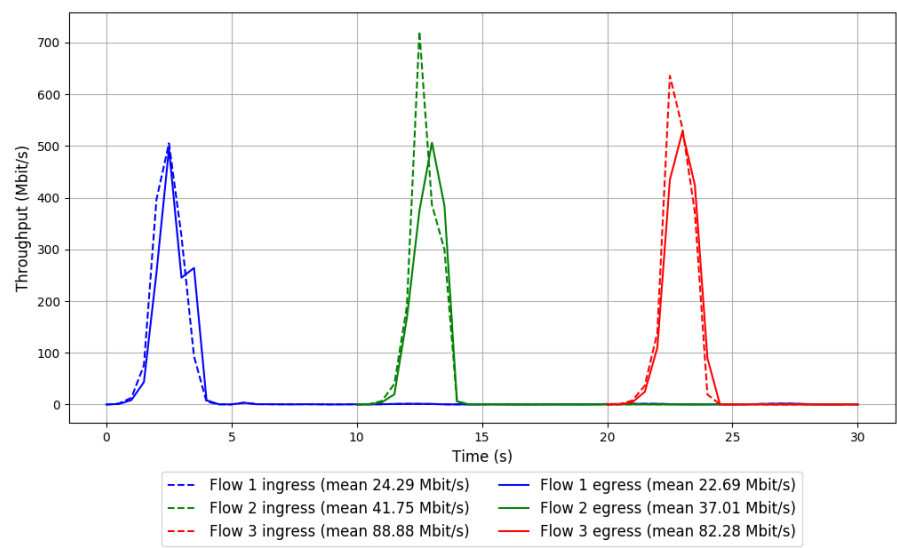
-- Flow 3:

Average throughput: 82.28 Mbit/s

95th percentile per-packet one-way delay: 304.783 ms

Loss rate: 7.42%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-01 06:52:03

End at: 2018-02-01 06:52:33

Below is generated by plot.py at 2018-02-01 09:19:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.37 Mbit/s

95th percentile per-packet one-way delay: 265.990 ms

Loss rate: 5.44%

-- Flow 1:

Average throughput: 25.13 Mbit/s

95th percentile per-packet one-way delay: 273.708 ms

Loss rate: 7.72%

-- Flow 2:

Average throughput: 42.32 Mbit/s

95th percentile per-packet one-way delay: 269.782 ms

Loss rate: 8.90%

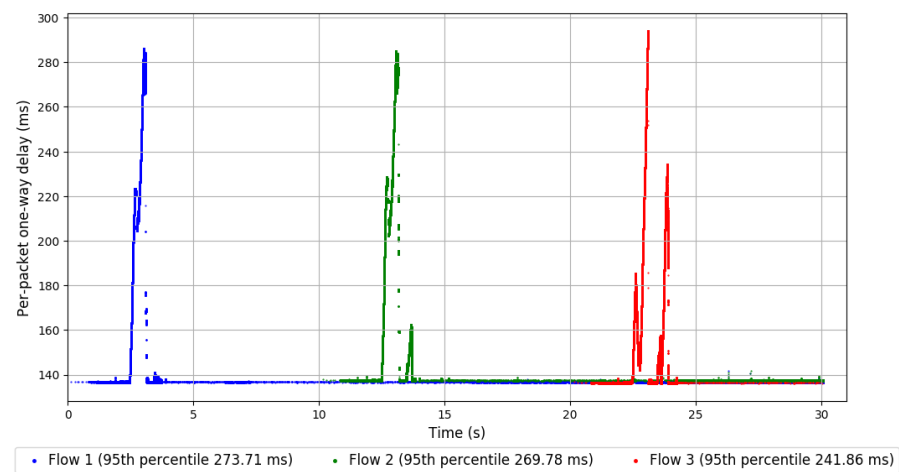
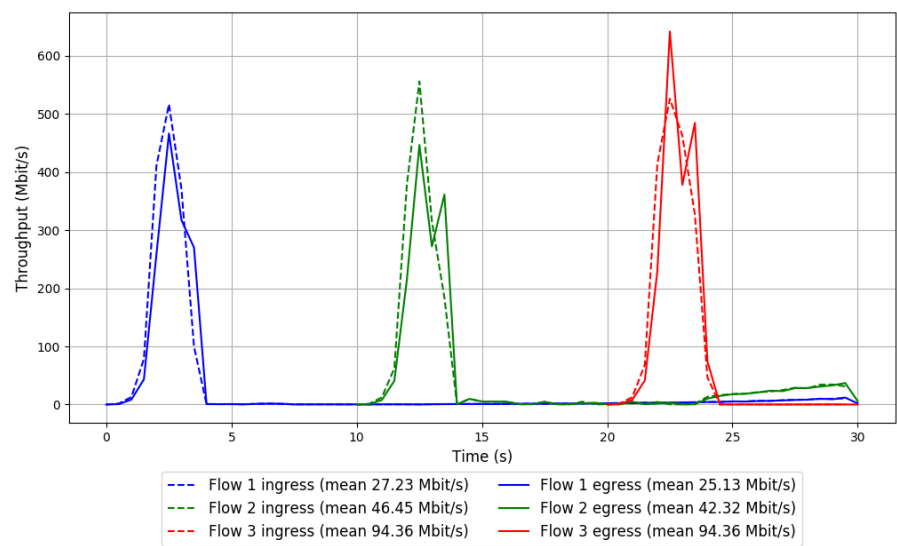
-- Flow 3:

Average throughput: 94.36 Mbit/s

95th percentile per-packet one-way delay: 241.856 ms

Loss rate: 0.00%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-01 07:11:15

End at: 2018-02-01 07:11:45

Below is generated by plot.py at 2018-02-01 09:19:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.73 Mbit/s

95th percentile per-packet one-way delay: 242.631 ms

Loss rate: 7.61%

-- Flow 1:

Average throughput: 22.91 Mbit/s

95th percentile per-packet one-way delay: 246.557 ms

Loss rate: 10.05%

-- Flow 2:

Average throughput: 32.81 Mbit/s

95th percentile per-packet one-way delay: 241.488 ms

Loss rate: 6.66%

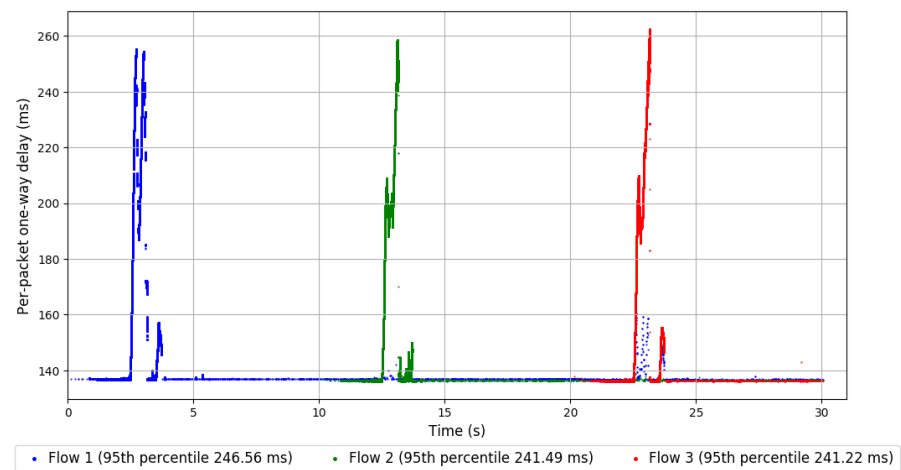
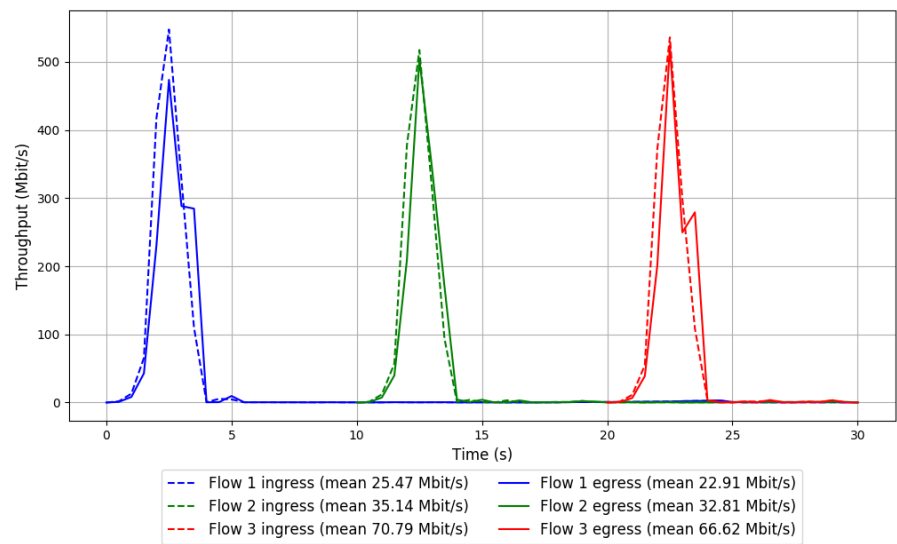
-- Flow 3:

Average throughput: 66.62 Mbit/s

95th percentile per-packet one-way delay: 241.216 ms

Loss rate: 5.90%

Run 9: Report of FillP — Data Link

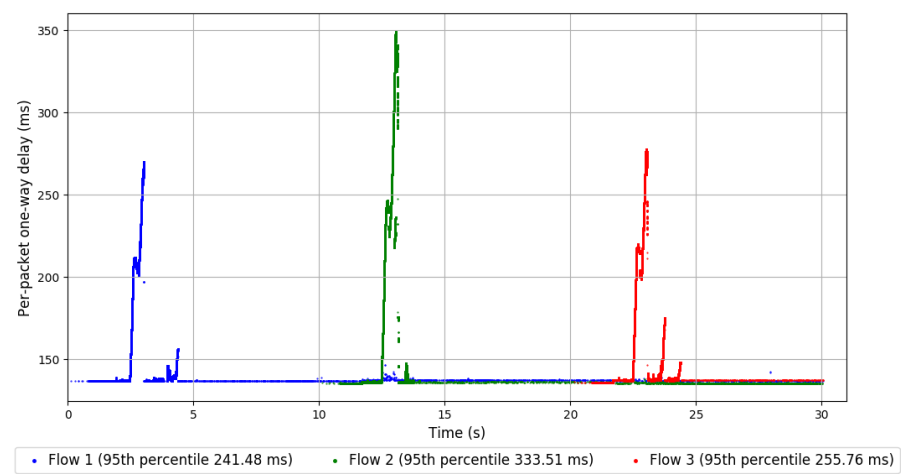
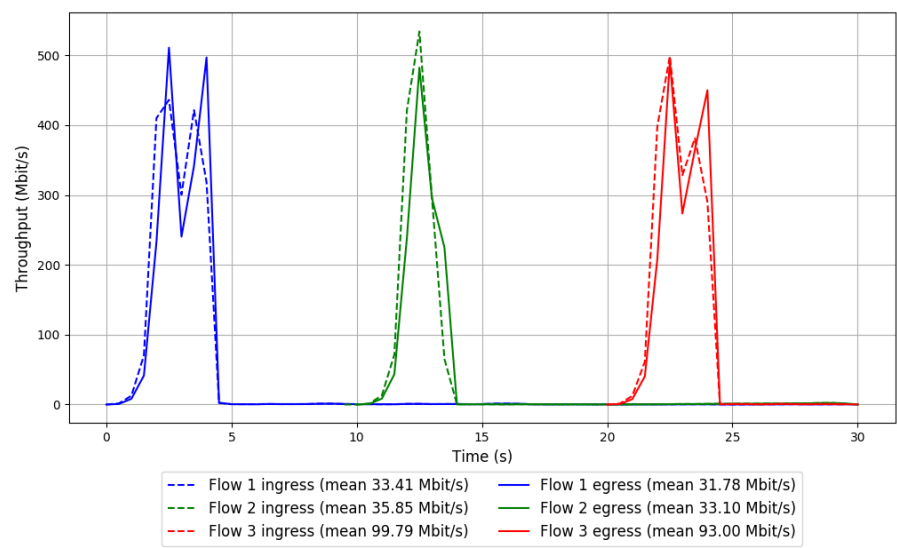


```
Run 10: Statistics of FillP

Start at: 2018-02-01 07:30:54
End at: 2018-02-01 07:31:24

# Below is generated by plot.py at 2018-02-01 09:19:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.62 Mbit/s
95th percentile per-packet one-way delay: 268.274 ms
Loss rate: 6.32%
-- Flow 1:
Average throughput: 31.78 Mbit/s
95th percentile per-packet one-way delay: 241.483 ms
Loss rate: 4.89%
-- Flow 2:
Average throughput: 33.10 Mbit/s
95th percentile per-packet one-way delay: 333.509 ms
Loss rate: 7.66%
-- Flow 3:
Average throughput: 93.00 Mbit/s
95th percentile per-packet one-way delay: 255.759 ms
Loss rate: 6.79%
```

Run 10: Report of FillP — Data Link

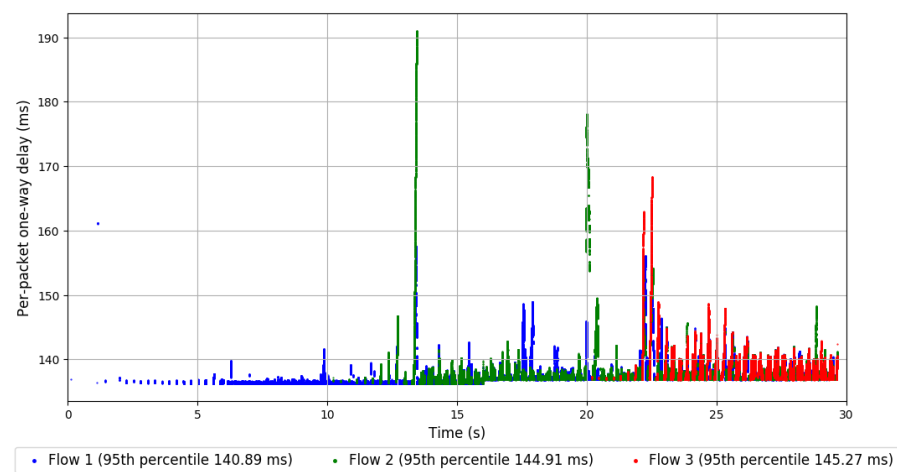
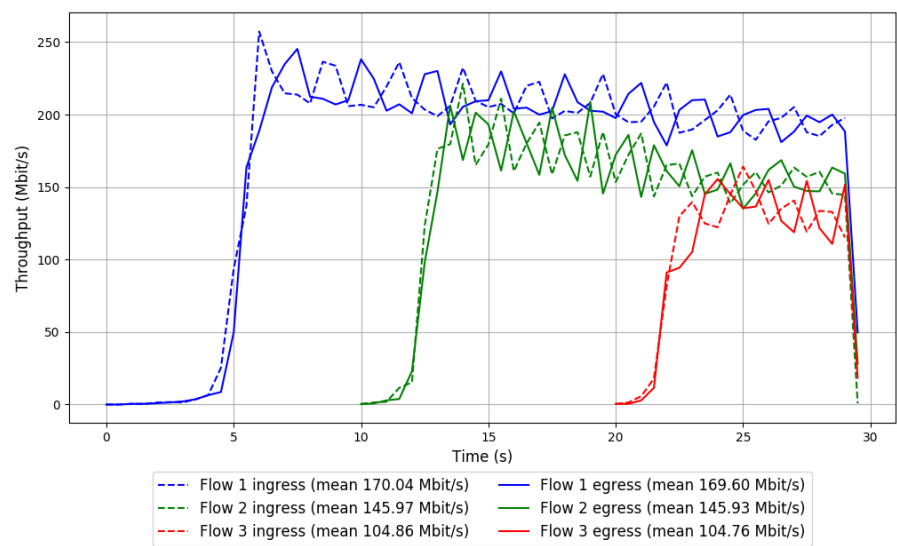


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-01 04:22:59
End at: 2018-02-01 04:23:29

# Below is generated by plot.py at 2018-02-01 09:22:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 299.18 Mbit/s
95th percentile per-packet one-way delay: 142.647 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 169.60 Mbit/s
95th percentile per-packet one-way delay: 140.887 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 145.93 Mbit/s
95th percentile per-packet one-way delay: 144.910 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 104.76 Mbit/s
95th percentile per-packet one-way delay: 145.272 ms
Loss rate: 0.05%
```

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

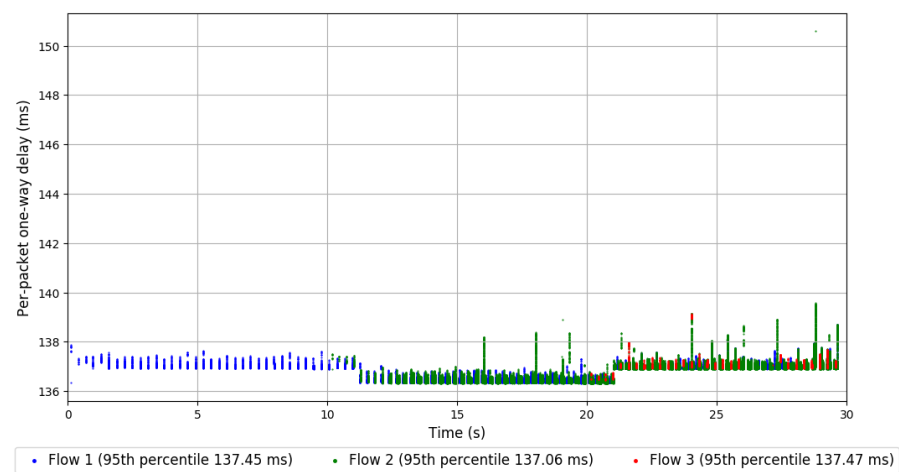
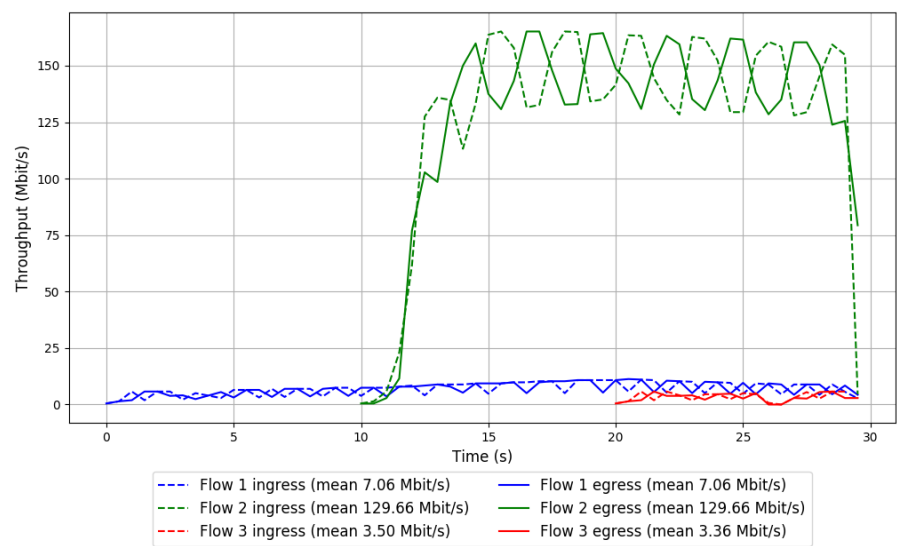


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-02-01 04:42:24
End at: 2018-02-01 04:42:54

# Below is generated by plot.py at 2018-02-01 09:22:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 137.097 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 7.06 Mbit/s
95th percentile per-packet one-way delay: 137.446 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 129.66 Mbit/s
95th percentile per-packet one-way delay: 137.064 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.36 Mbit/s
95th percentile per-packet one-way delay: 137.472 ms
Loss rate: 4.01%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-01 05:01:33

End at: 2018-02-01 05:02:03

Below is generated by plot.py at 2018-02-01 09:22:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 252.48 Mbit/s

95th percentile per-packet one-way delay: 138.596 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 131.85 Mbit/s

95th percentile per-packet one-way delay: 139.811 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 129.42 Mbit/s

95th percentile per-packet one-way delay: 138.273 ms

Loss rate: 0.01%

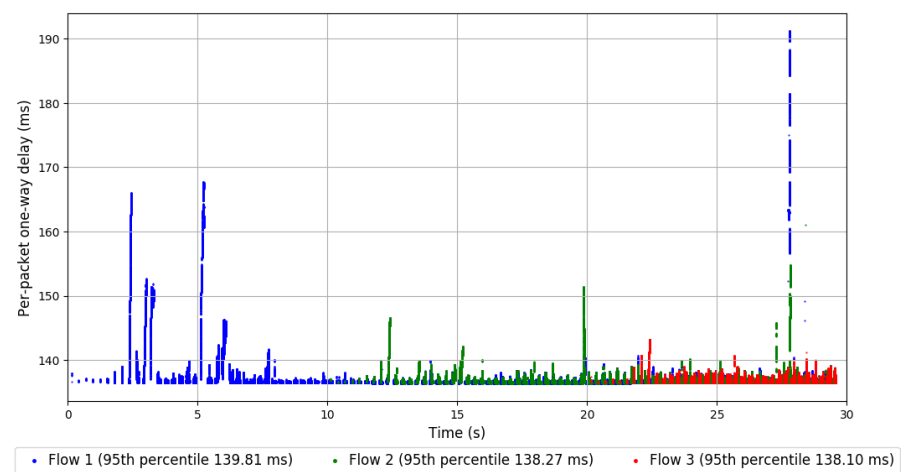
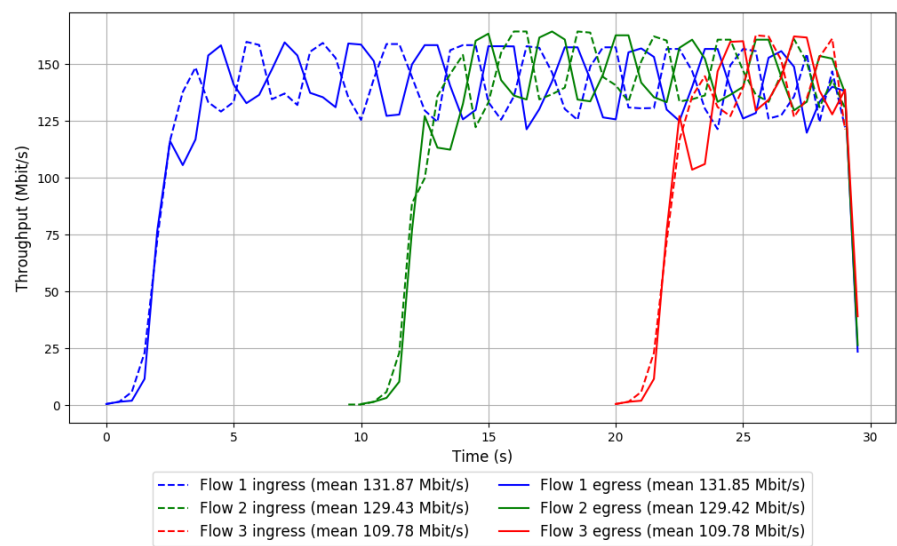
-- Flow 3:

Average throughput: 109.78 Mbit/s

95th percentile per-packet one-way delay: 138.096 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-01 05:20:07

End at: 2018-02-01 05:20:37

Below is generated by plot.py at 2018-02-01 09:22:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 252.01 Mbit/s

95th percentile per-packet one-way delay: 159.835 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 132.49 Mbit/s

95th percentile per-packet one-way delay: 176.659 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 130.11 Mbit/s

95th percentile per-packet one-way delay: 152.895 ms

Loss rate: 0.04%

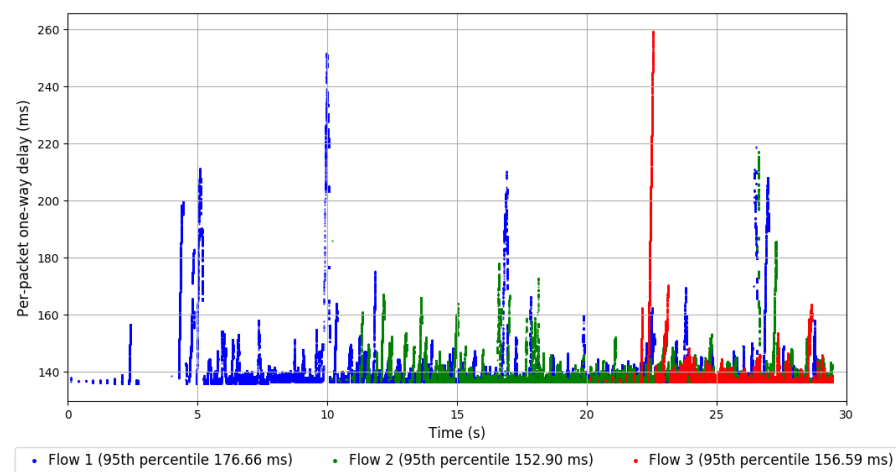
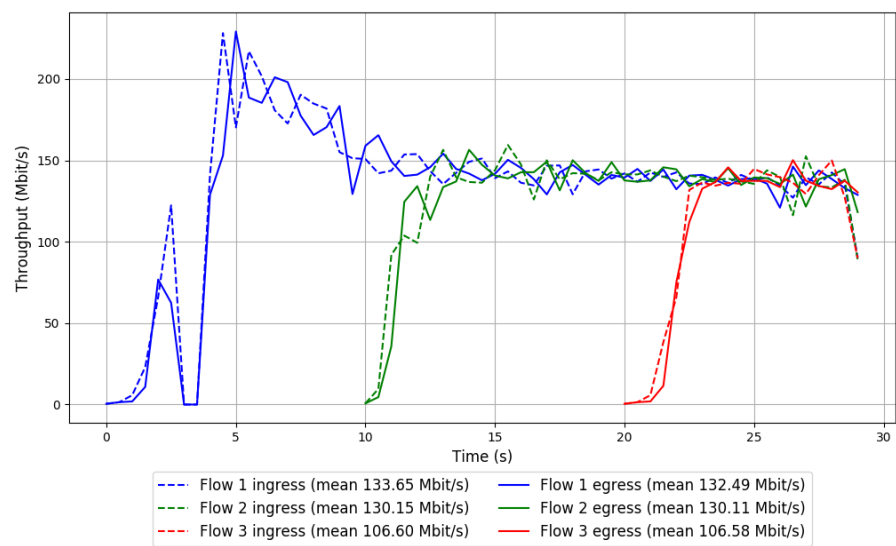
-- Flow 3:

Average throughput: 106.58 Mbit/s

95th percentile per-packet one-way delay: 156.591 ms

Loss rate: 0.03%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-01 05:38:39

End at: 2018-02-01 05:39:09

Below is generated by plot.py at 2018-02-01 09:22:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 268.04 Mbit/s

95th percentile per-packet one-way delay: 138.500 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 133.13 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 131.32 Mbit/s

95th percentile per-packet one-way delay: 138.846 ms

Loss rate: 0.00%

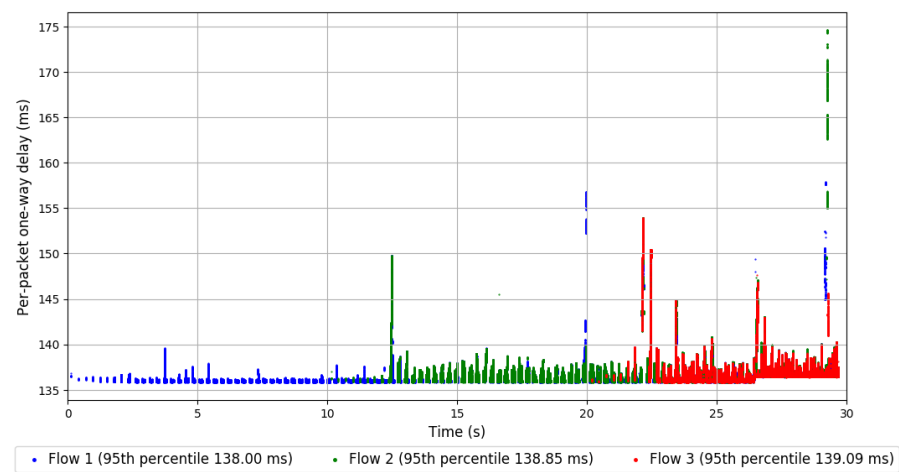
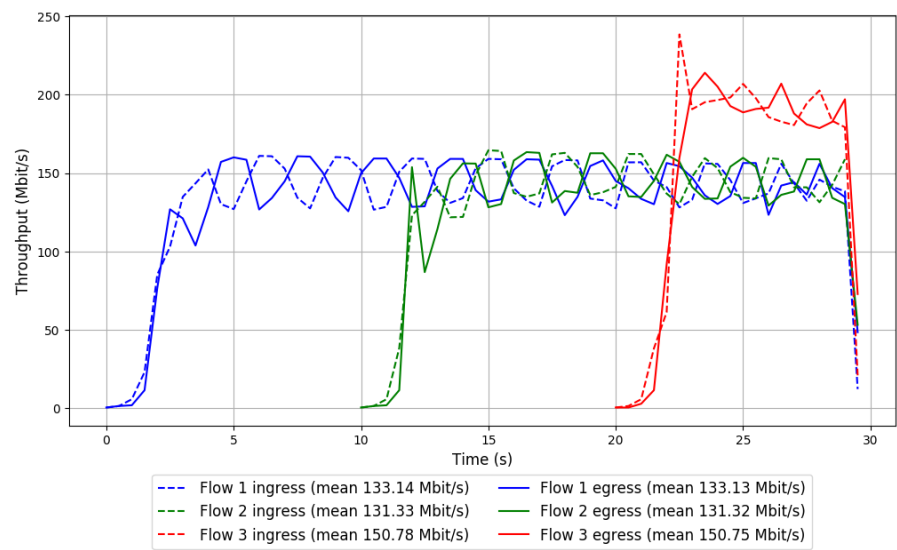
-- Flow 3:

Average throughput: 150.75 Mbit/s

95th percentile per-packet one-way delay: 139.093 ms

Loss rate: 0.00%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-01 05:58:07

End at: 2018-02-01 05:58:37

Below is generated by plot.py at 2018-02-01 09:23:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.97 Mbit/s

95th percentile per-packet one-way delay: 162.540 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 167.77 Mbit/s

95th percentile per-packet one-way delay: 162.455 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 171.33 Mbit/s

95th percentile per-packet one-way delay: 162.498 ms

Loss rate: 0.00%

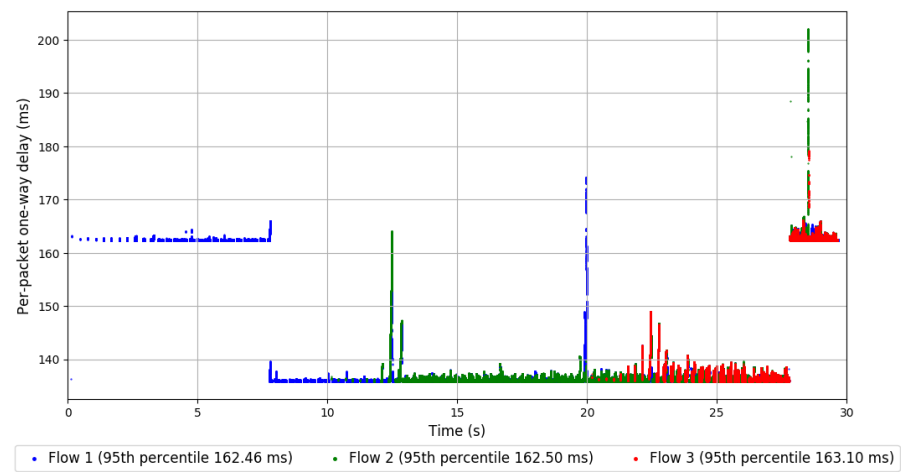
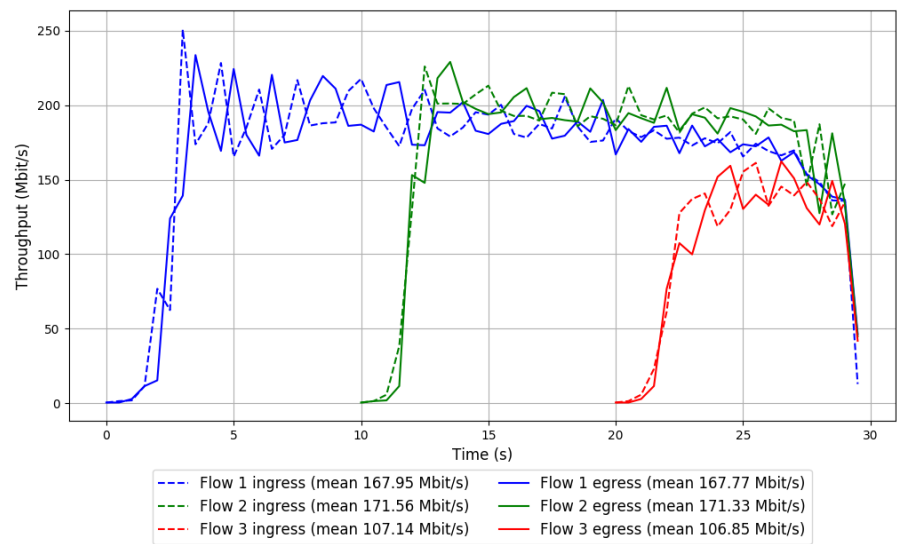
-- Flow 3:

Average throughput: 106.85 Mbit/s

95th percentile per-packet one-way delay: 163.102 ms

Loss rate: 0.00%

Run 6: Report of Indigo-1-32 — Data Link



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-01 06:17:21

End at: 2018-02-01 06:17:51

Below is generated by plot.py at 2018-02-01 09:23:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 274.97 Mbit/s

95th percentile per-packet one-way delay: 162.892 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 152.40 Mbit/s

95th percentile per-packet one-way delay: 162.782 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 112.86 Mbit/s

95th percentile per-packet one-way delay: 163.118 ms

Loss rate: 0.00%

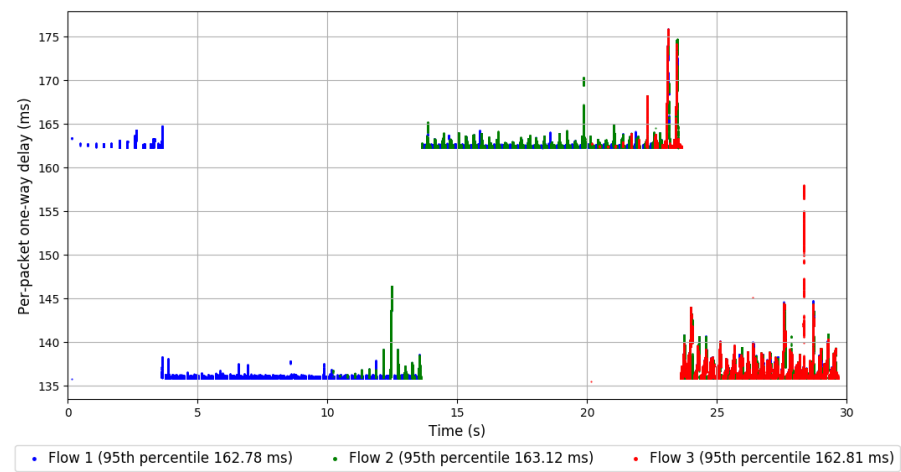
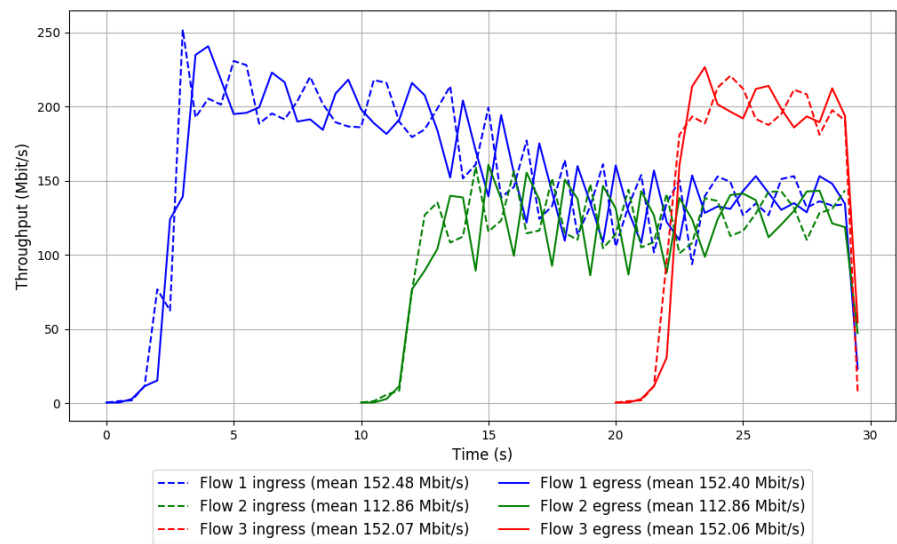
-- Flow 3:

Average throughput: 152.06 Mbit/s

95th percentile per-packet one-way delay: 162.812 ms

Loss rate: 0.00%

Run 7: Report of Indigo-1-32 — Data Link



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-01 06:36:45

End at: 2018-02-01 06:37:15

Below is generated by plot.py at 2018-02-01 09:23:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 269.70 Mbit/s

95th percentile per-packet one-way delay: 137.941 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 133.72 Mbit/s

95th percentile per-packet one-way delay: 137.190 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 129.58 Mbit/s

95th percentile per-packet one-way delay: 137.728 ms

Loss rate: 0.01%

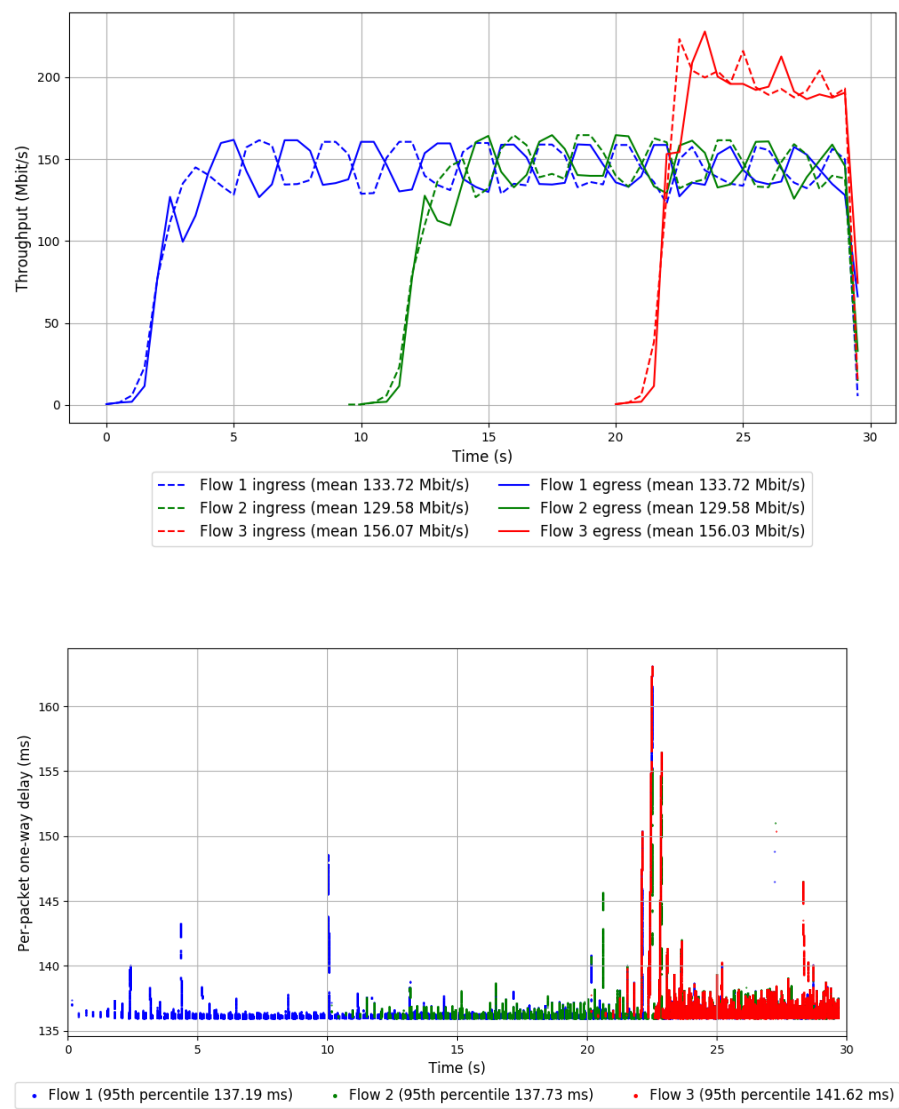
-- Flow 3:

Average throughput: 156.03 Mbit/s

95th percentile per-packet one-way delay: 141.616 ms

Loss rate: 0.04%

Run 8: Report of Indigo-1-32 — Data Link



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-01 06:55:34

End at: 2018-02-01 06:56:04

Below is generated by plot.py at 2018-02-01 09:24:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.56 Mbit/s

95th percentile per-packet one-way delay: 137.730 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 180.90 Mbit/s

95th percentile per-packet one-way delay: 137.376 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 127.92 Mbit/s

95th percentile per-packet one-way delay: 137.704 ms

Loss rate: 0.00%

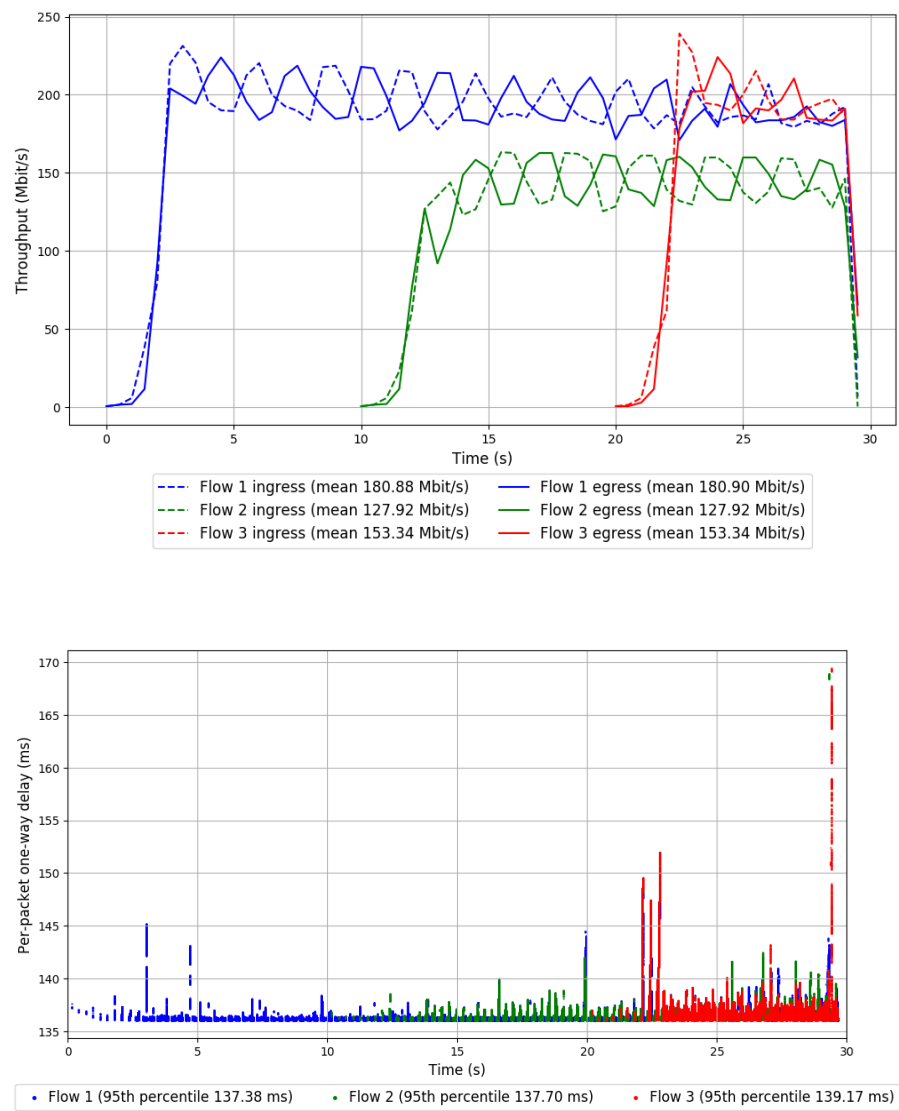
-- Flow 3:

Average throughput: 153.34 Mbit/s

95th percentile per-packet one-way delay: 139.167 ms

Loss rate: 0.00%

Run 9: Report of Indigo-1-32 — Data Link



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-01 07:14:47

End at: 2018-02-01 07:15:17

Below is generated by plot.py at 2018-02-01 09:25:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 266.61 Mbit/s

95th percentile per-packet one-way delay: 138.336 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 132.32 Mbit/s

95th percentile per-packet one-way delay: 137.916 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 129.95 Mbit/s

95th percentile per-packet one-way delay: 138.023 ms

Loss rate: 0.00%

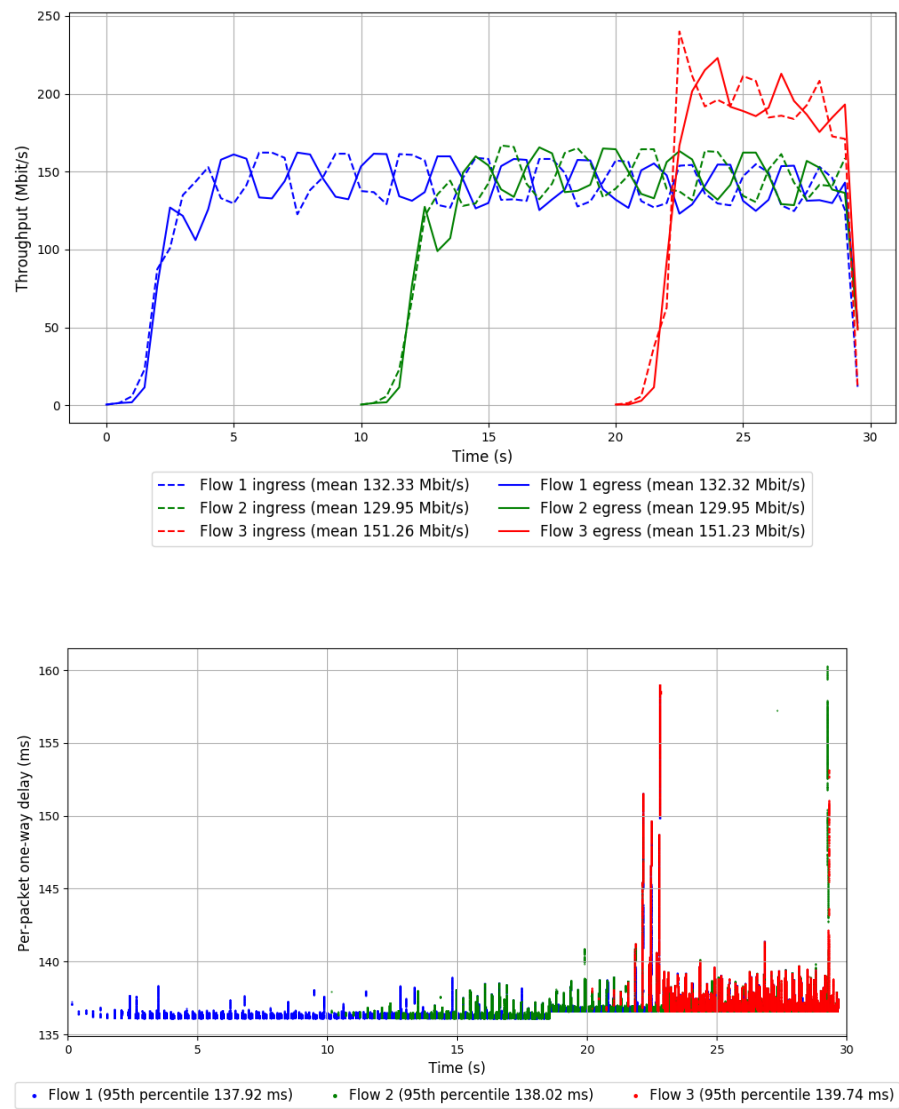
-- Flow 3:

Average throughput: 151.23 Mbit/s

95th percentile per-packet one-way delay: 139.736 ms

Loss rate: 0.02%

Run 10: Report of Indigo-1-32 — Data Link

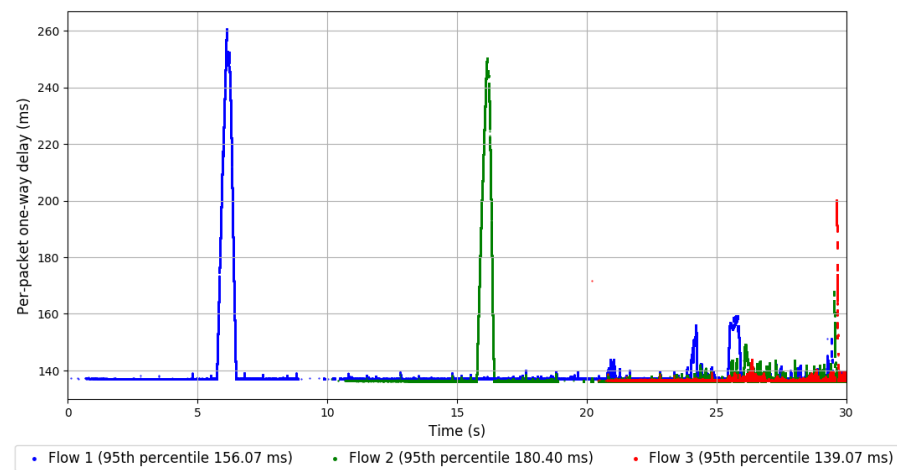
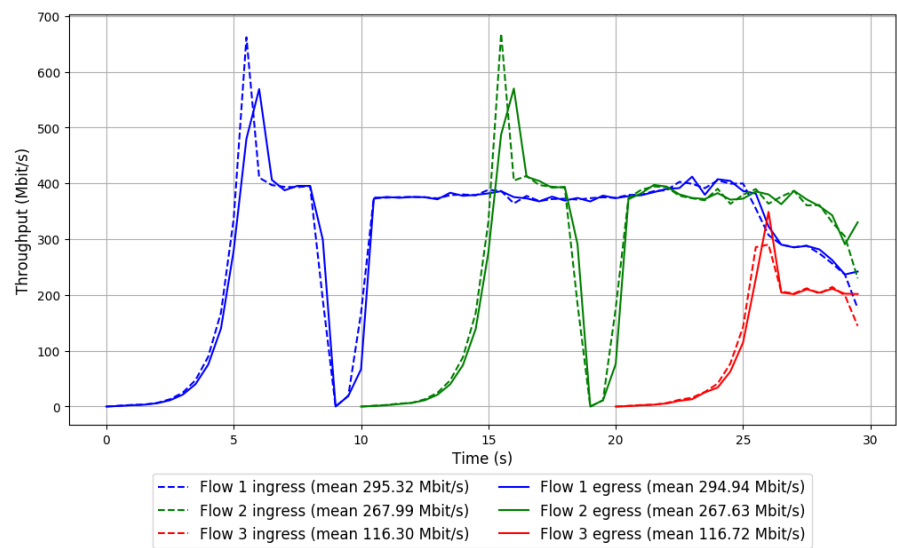


```
Run 1: Statistics of Vivace-latency

Start at: 2018-02-01 04:26:27
End at: 2018-02-01 04:26:57

# Below is generated by plot.py at 2018-02-01 09:30:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 511.13 Mbit/s
95th percentile per-packet one-way delay: 157.172 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 294.94 Mbit/s
95th percentile per-packet one-way delay: 156.067 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 267.63 Mbit/s
95th percentile per-packet one-way delay: 180.399 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 116.72 Mbit/s
95th percentile per-packet one-way delay: 139.071 ms
Loss rate: 0.00%
```


Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-01 04:45:25

End at: 2018-02-01 04:45:55

Below is generated by plot.py at 2018-02-01 09:30:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 523.15 Mbit/s

95th percentile per-packet one-way delay: 182.272 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 342.92 Mbit/s

95th percentile per-packet one-way delay: 189.528 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 183.39 Mbit/s

95th percentile per-packet one-way delay: 138.004 ms

Loss rate: 0.00%

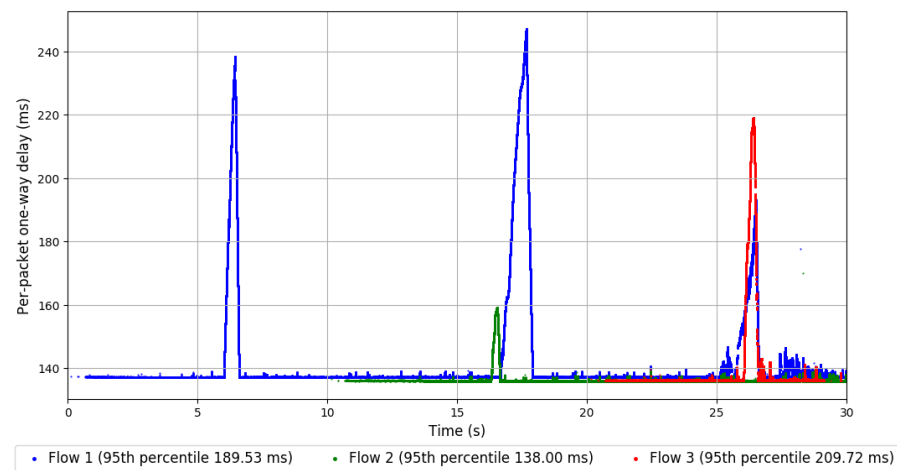
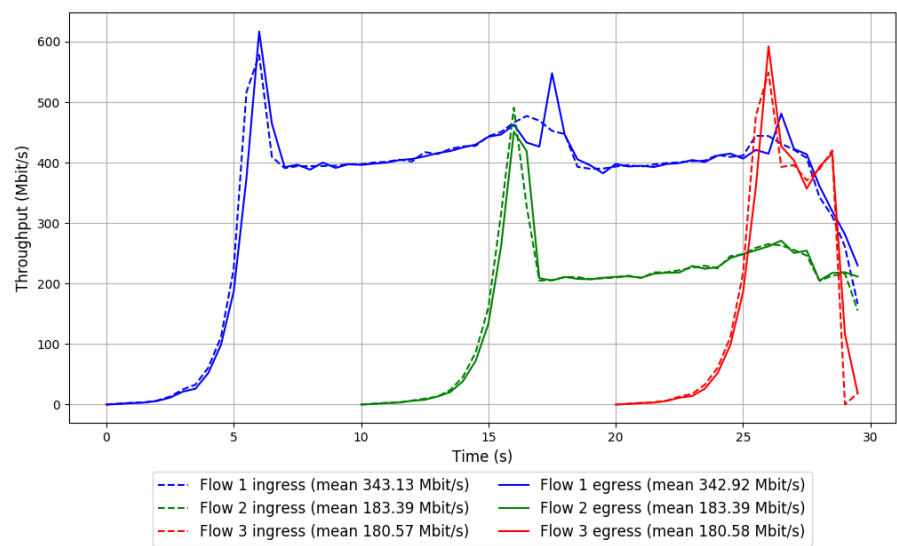
-- Flow 3:

Average throughput: 180.58 Mbit/s

95th percentile per-packet one-way delay: 209.716 ms

Loss rate: 0.00%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-01 05:05:00

End at: 2018-02-01 05:05:30

Below is generated by plot.py at 2018-02-01 09:30:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 369.41 Mbit/s

95th percentile per-packet one-way delay: 174.404 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 214.46 Mbit/s

95th percentile per-packet one-way delay: 177.938 ms

Loss rate: 1.39%

-- Flow 2:

Average throughput: 174.00 Mbit/s

95th percentile per-packet one-way delay: 165.167 ms

Loss rate: 0.00%

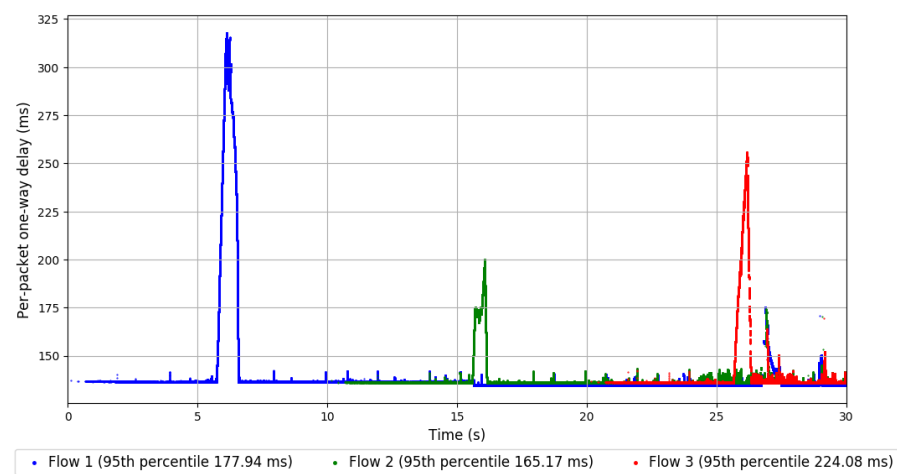
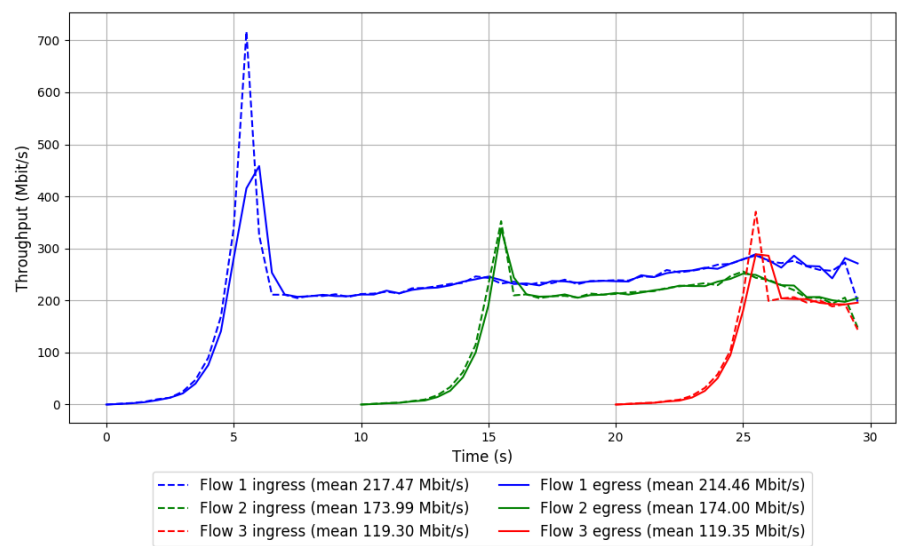
-- Flow 3:

Average throughput: 119.35 Mbit/s

95th percentile per-packet one-way delay: 224.079 ms

Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-01 05:23:15

End at: 2018-02-01 05:23:45

Below is generated by plot.py at 2018-02-01 09:30:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 261.94 Mbit/s

95th percentile per-packet one-way delay: 288.586 ms

Loss rate: 3.32%

-- Flow 1:

Average throughput: 196.13 Mbit/s

95th percentile per-packet one-way delay: 274.188 ms

Loss rate: 2.32%

-- Flow 2:

Average throughput: 67.98 Mbit/s

95th percentile per-packet one-way delay: 474.296 ms

Loss rate: 8.77%

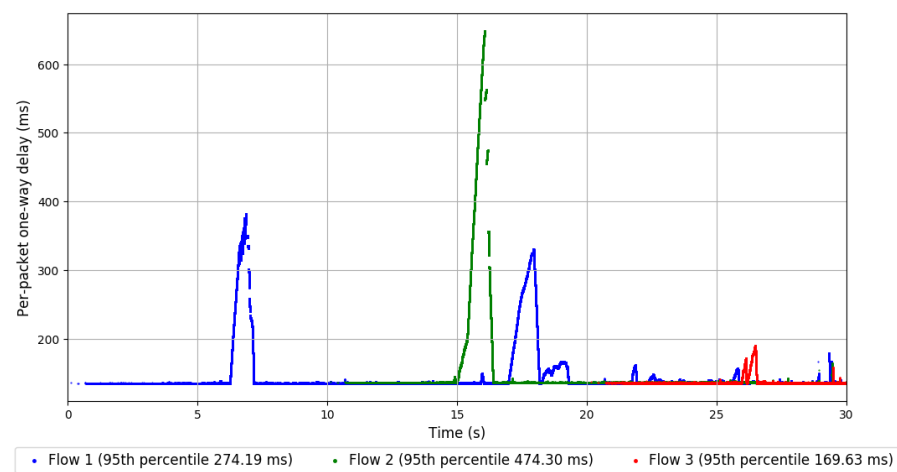
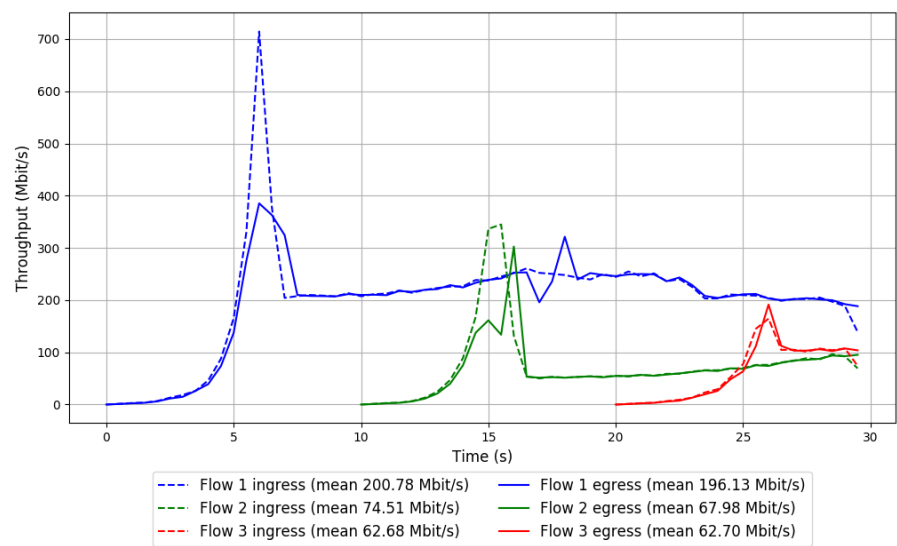
-- Flow 3:

Average throughput: 62.70 Mbit/s

95th percentile per-packet one-way delay: 169.633 ms

Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-01 05:42:07

End at: 2018-02-01 05:42:37

Below is generated by plot.py at 2018-02-01 09:33:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 605.40 Mbit/s

95th percentile per-packet one-way delay: 140.063 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 342.85 Mbit/s

95th percentile per-packet one-way delay: 139.634 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 294.73 Mbit/s

95th percentile per-packet one-way delay: 138.602 ms

Loss rate: 0.00%

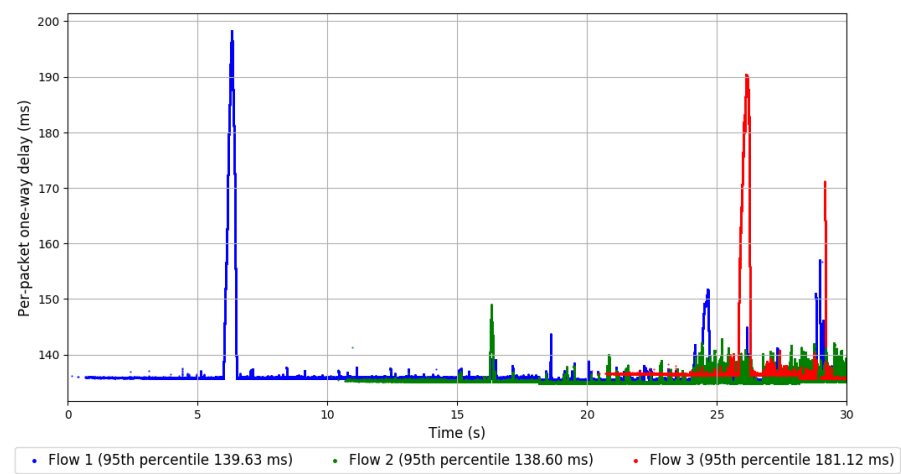
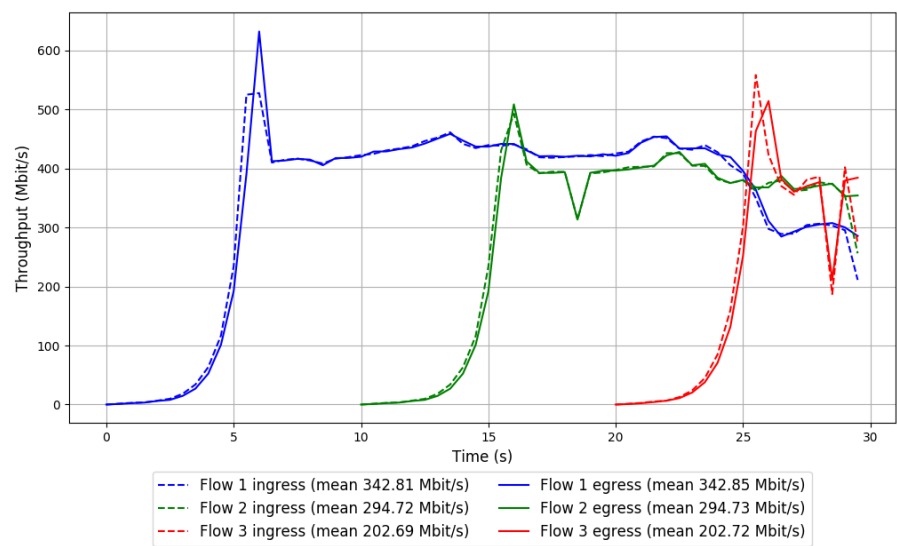
-- Flow 3:

Average throughput: 202.72 Mbit/s

95th percentile per-packet one-way delay: 181.120 ms

Loss rate: 0.00%

Run 5: Report of Vivace-latency — Data Link

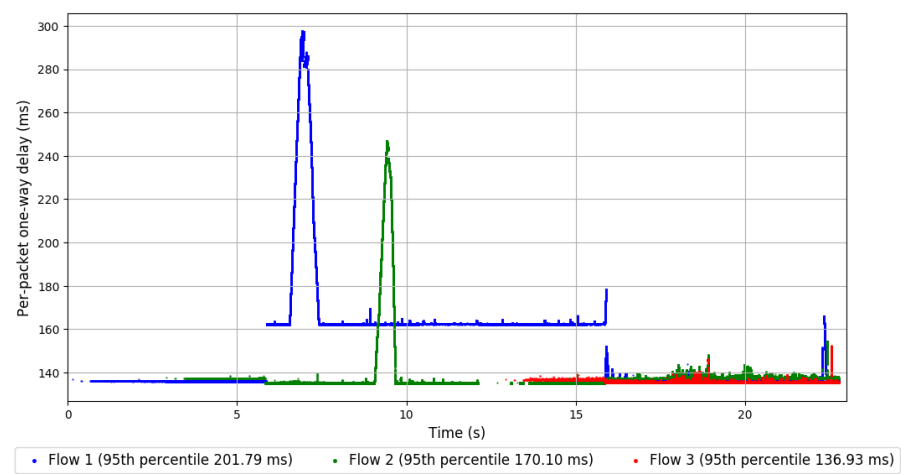
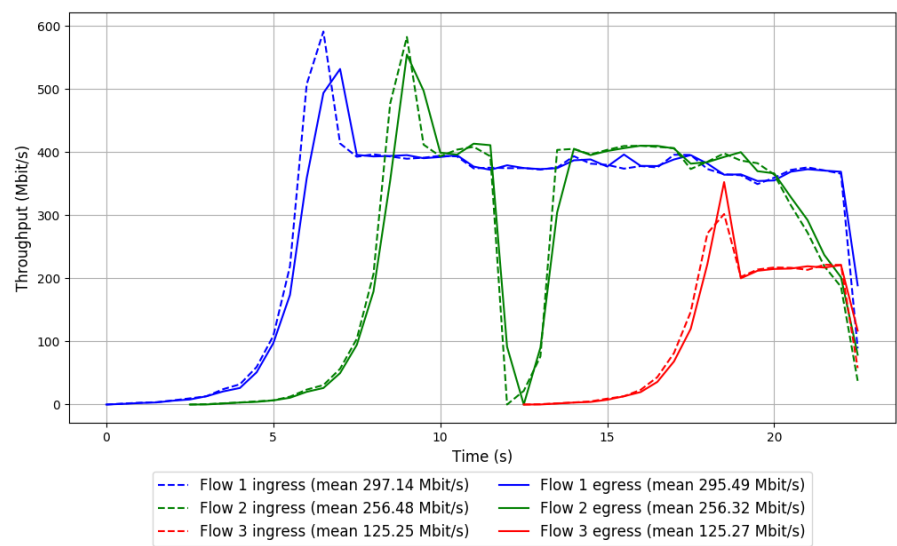


Run 6: Statistics of Vivace-latency

Start at: 2018-02-01 06:01:42

End at: 2018-02-01 06:02:12

Run 6: Report of Vivace-latency — Data Link

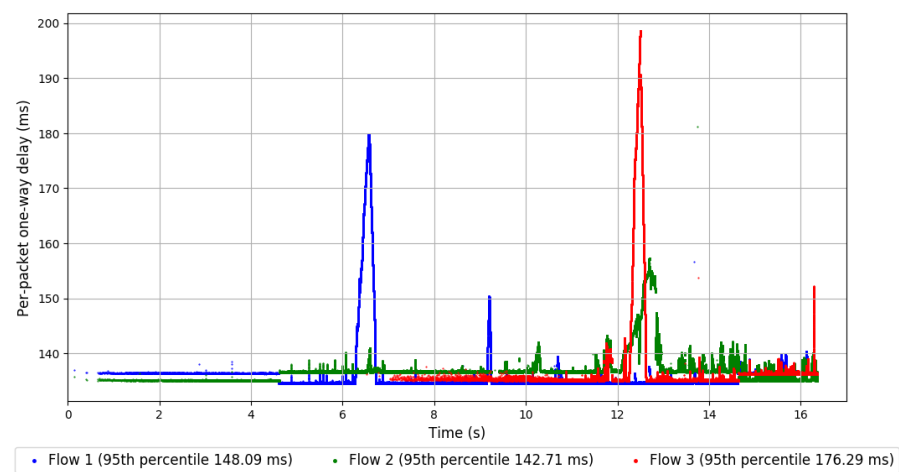
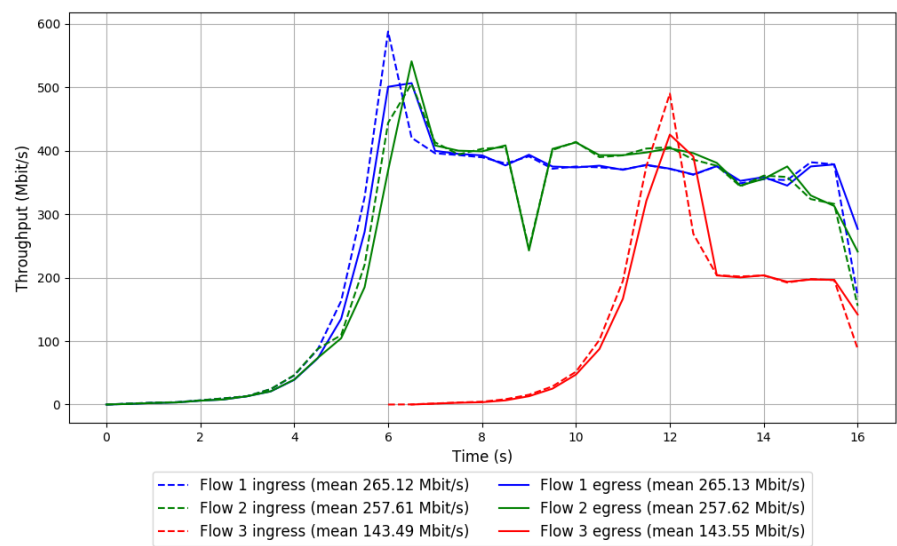


Run 7: Statistics of Vivace-latency

Start at: 2018-02-01 06:20:47

End at: 2018-02-01 06:21:17

Run 7: Report of Vivace-latency — Data Link

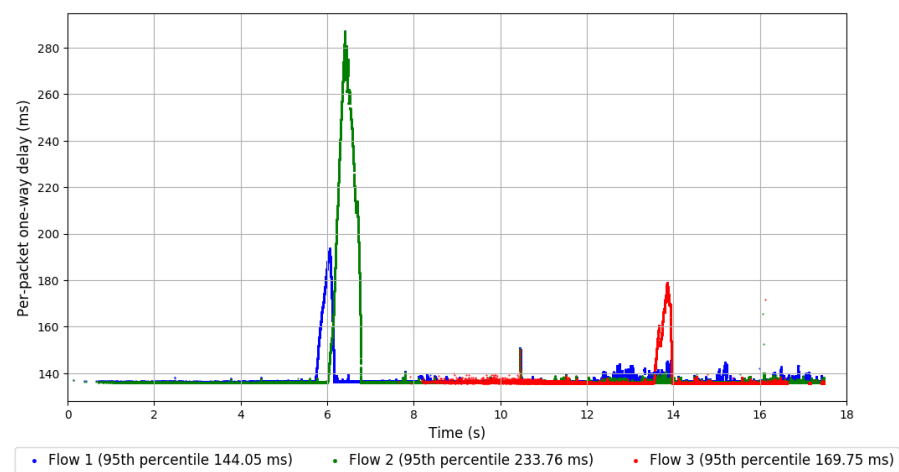
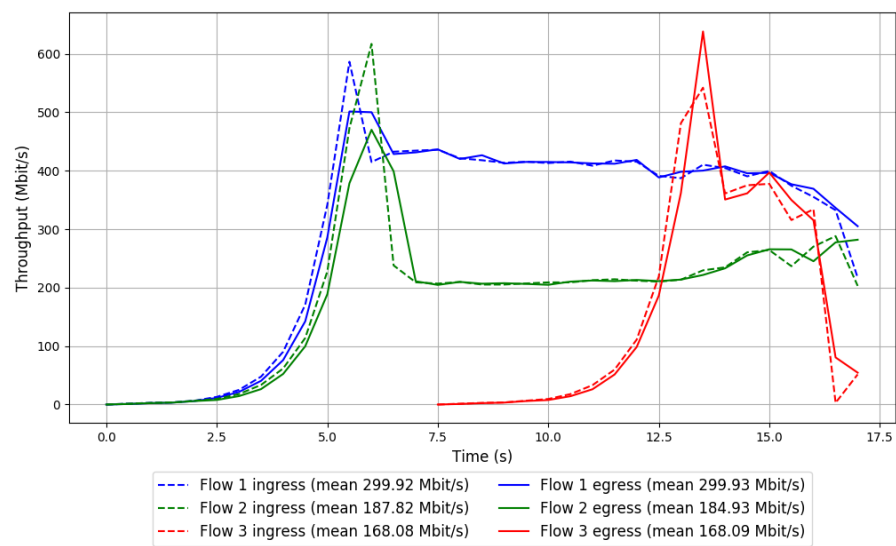


Run 8: Statistics of Vivace-latency

Start at: 2018-02-01 06:40:15

End at: 2018-02-01 06:40:45

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-01 06:59:09

End at: 2018-02-01 06:59:39

Below is generated by plot.py at 2018-02-01 09:36:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 500.18 Mbit/s

95th percentile per-packet one-way delay: 149.222 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 345.76 Mbit/s

95th percentile per-packet one-way delay: 146.035 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 198.56 Mbit/s

95th percentile per-packet one-way delay: 242.942 ms

Loss rate: 1.35%

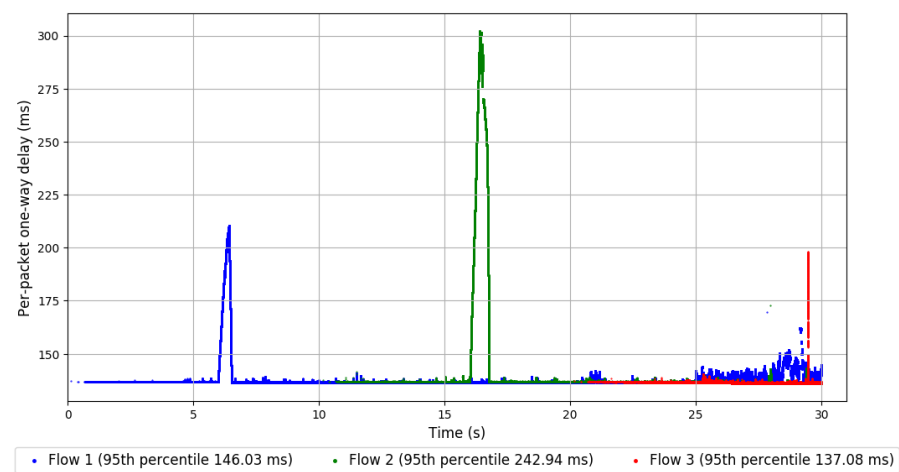
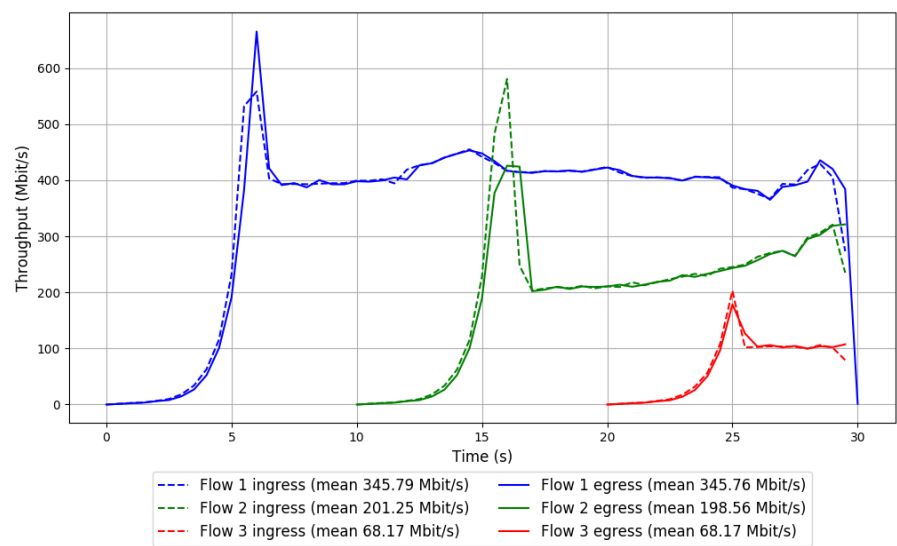
-- Flow 3:

Average throughput: 68.17 Mbit/s

95th percentile per-packet one-way delay: 137.082 ms

Loss rate: 0.00%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-01 07:18:20

End at: 2018-02-01 07:18:50

Below is generated by plot.py at 2018-02-01 09:36:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 335.99 Mbit/s

95th percentile per-packet one-way delay: 157.024 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 44.04 Mbit/s

95th percentile per-packet one-way delay: 3954.399 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 335.55 Mbit/s

95th percentile per-packet one-way delay: 155.028 ms

Loss rate: 0.00%

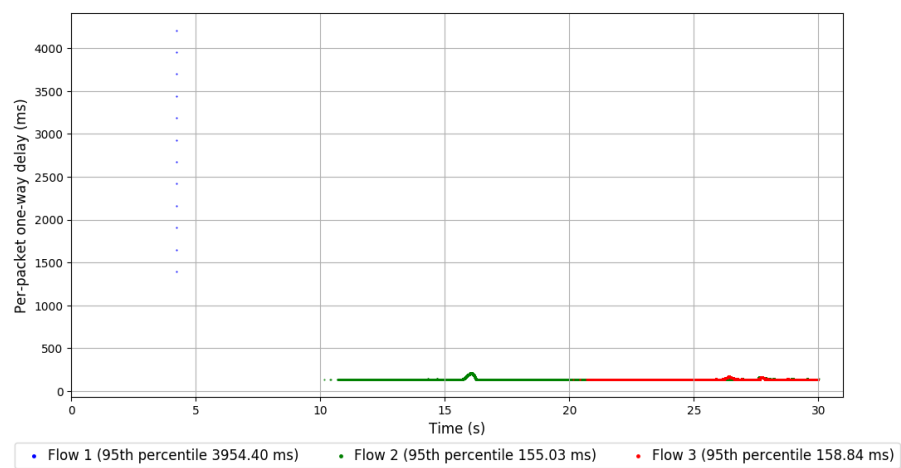
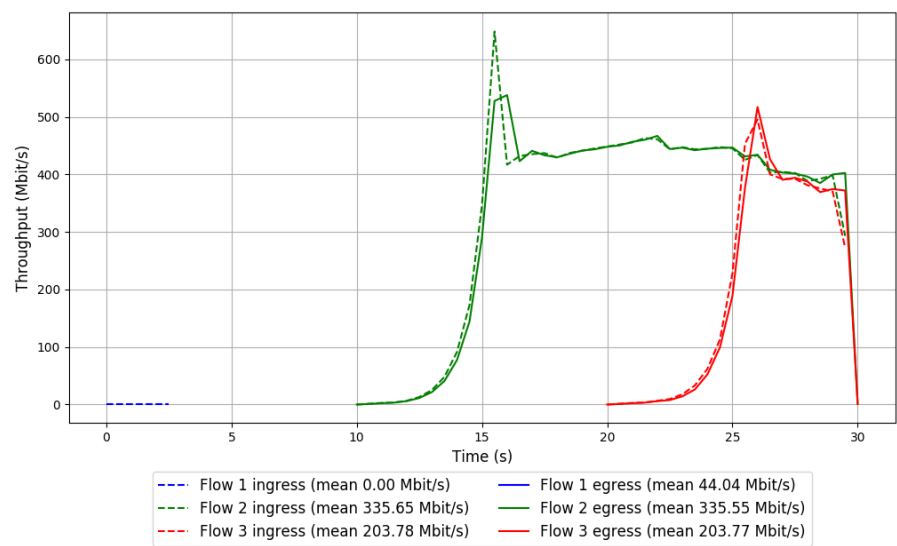
-- Flow 3:

Average throughput: 203.77 Mbit/s

95th percentile per-packet one-way delay: 158.835 ms

Loss rate: 0.01%

Run 10: Report of Vivace-latency — Data Link

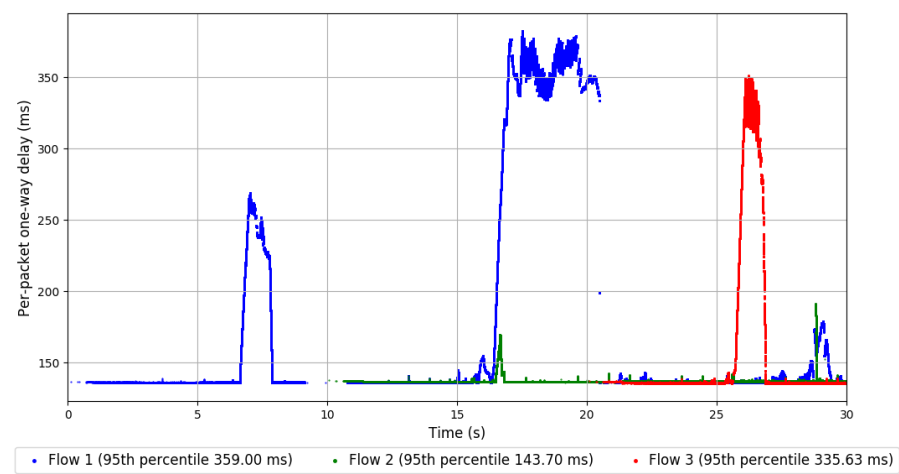
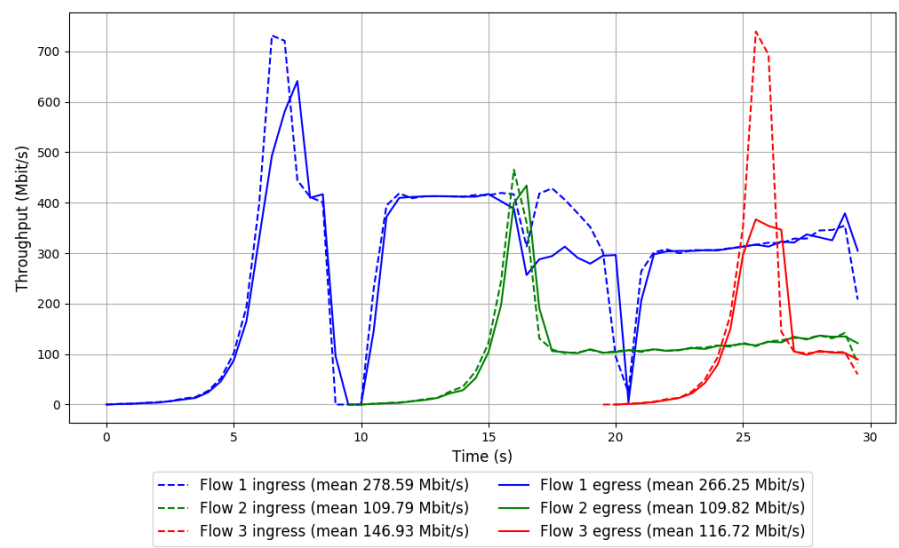


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-01 04:25:04
End at: 2018-02-01 04:25:34

# Below is generated by plot.py at 2018-02-01 09:36:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 377.94 Mbit/s
95th percentile per-packet one-way delay: 351.450 ms
Loss rate: 5.58%
-- Flow 1:
Average throughput: 266.25 Mbit/s
95th percentile per-packet one-way delay: 359.000 ms
Loss rate: 4.43%
-- Flow 2:
Average throughput: 109.82 Mbit/s
95th percentile per-packet one-way delay: 143.696 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 116.72 Mbit/s
95th percentile per-packet one-way delay: 335.626 ms
Loss rate: 20.62%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-01 04:44:09

End at: 2018-02-01 04:44:39

Below is generated by plot.py at 2018-02-01 09:36:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 315.97 Mbit/s

95th percentile per-packet one-way delay: 236.625 ms

Loss rate: 1.82%

-- Flow 1:

Average throughput: 139.68 Mbit/s

95th percentile per-packet one-way delay: 156.956 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 193.33 Mbit/s

95th percentile per-packet one-way delay: 250.193 ms

Loss rate: 1.89%

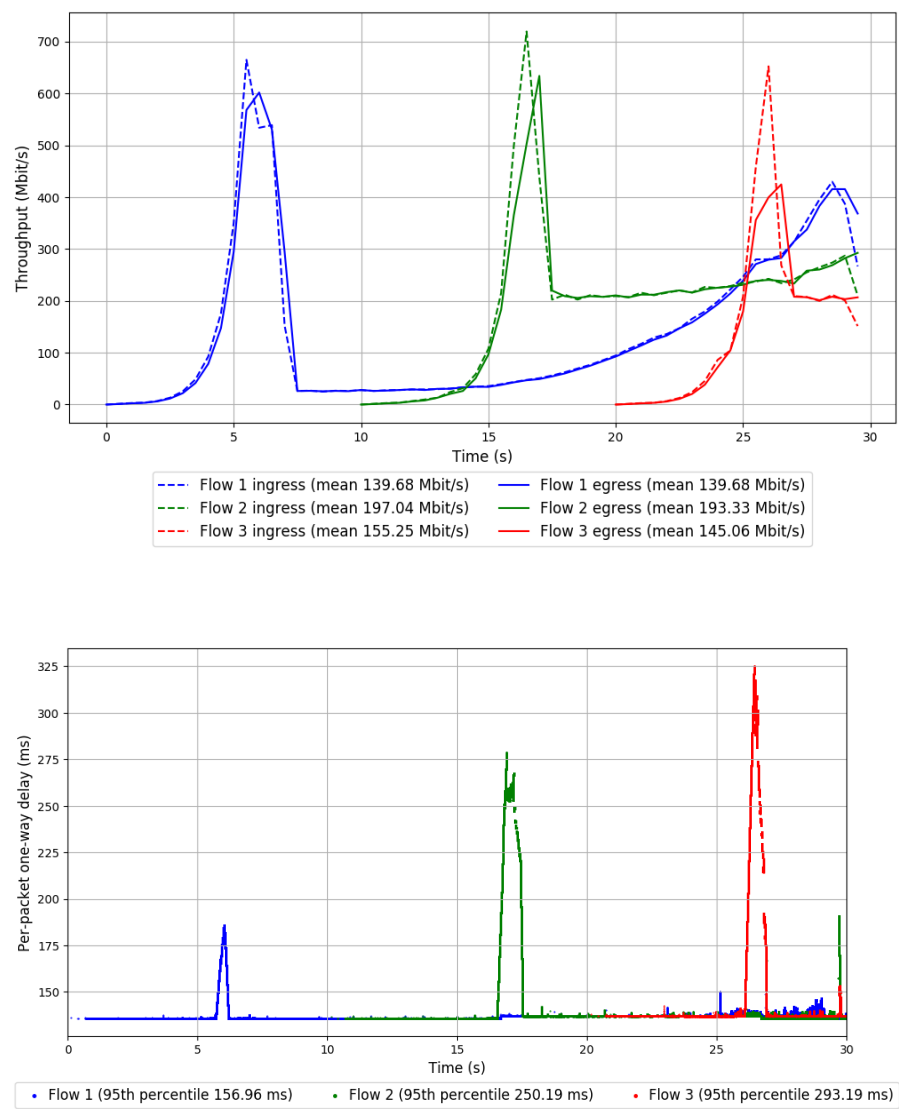
-- Flow 3:

Average throughput: 145.06 Mbit/s

95th percentile per-packet one-way delay: 293.191 ms

Loss rate: 6.61%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-01 05:03:32

End at: 2018-02-01 05:04:02

Below is generated by plot.py at 2018-02-01 09:38:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 473.93 Mbit/s

95th percentile per-packet one-way delay: 333.711 ms

Loss rate: 4.88%

-- Flow 1:

Average throughput: 237.39 Mbit/s

95th percentile per-packet one-way delay: 343.476 ms

Loss rate: 5.11%

-- Flow 2:

Average throughput: 283.12 Mbit/s

95th percentile per-packet one-way delay: 331.237 ms

Loss rate: 5.03%

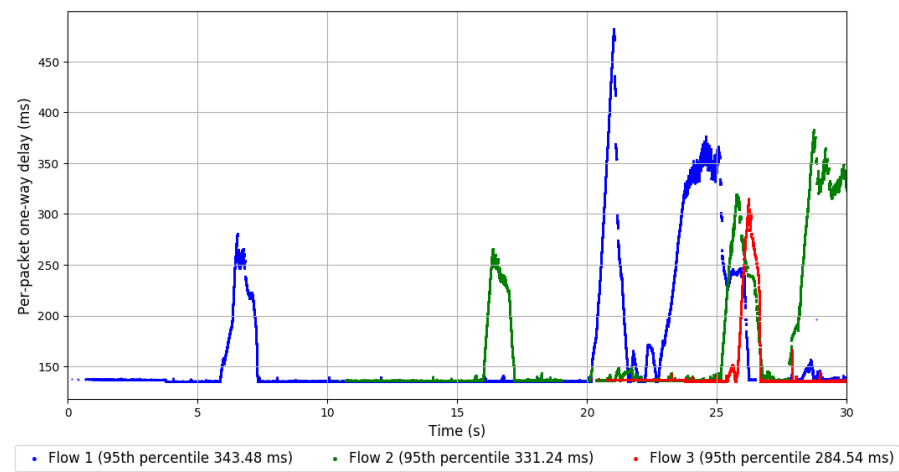
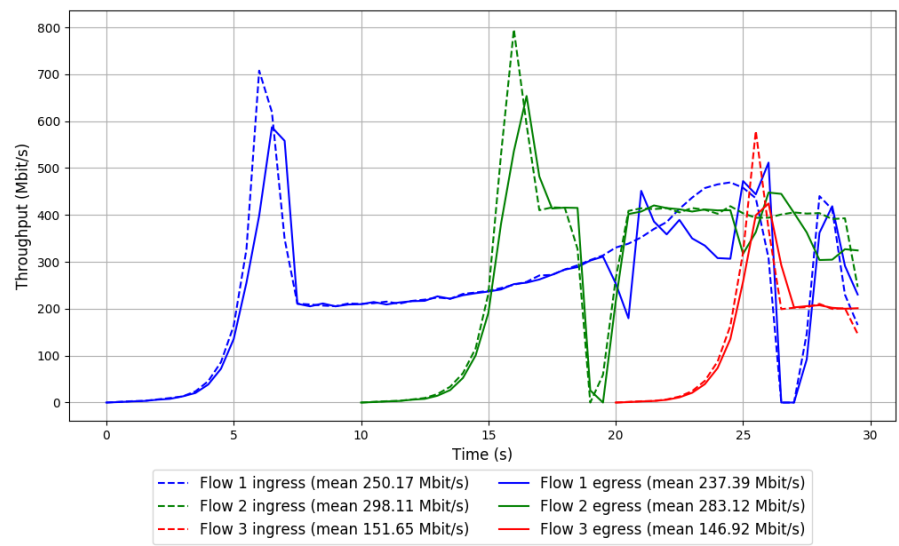
-- Flow 3:

Average throughput: 146.92 Mbit/s

95th percentile per-packet one-way delay: 284.539 ms

Loss rate: 3.14%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-01 05:22:05

End at: 2018-02-01 05:22:35

Below is generated by plot.py at 2018-02-01 09:38:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 230.90 Mbit/s

95th percentile per-packet one-way delay: 382.953 ms

Loss rate: 15.53%

-- Flow 1:

Average throughput: 153.97 Mbit/s

95th percentile per-packet one-way delay: 344.724 ms

Loss rate: 9.39%

-- Flow 2:

Average throughput: 77.78 Mbit/s

95th percentile per-packet one-way delay: 338.548 ms

Loss rate: 14.12%

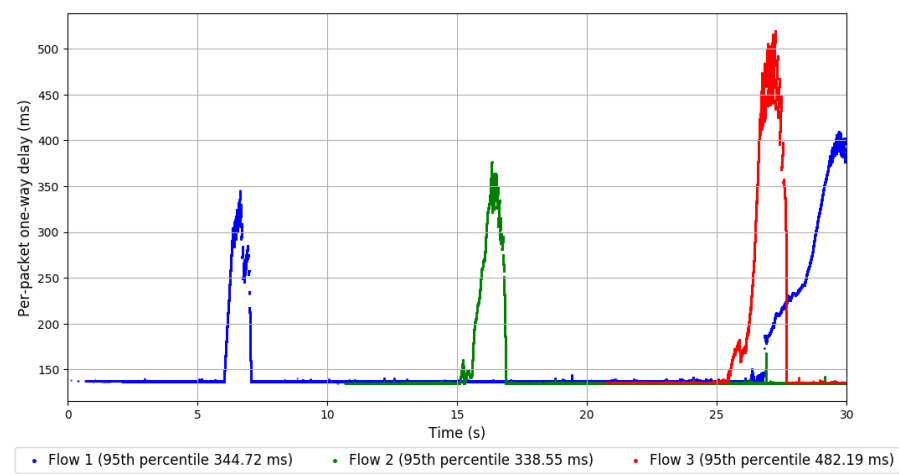
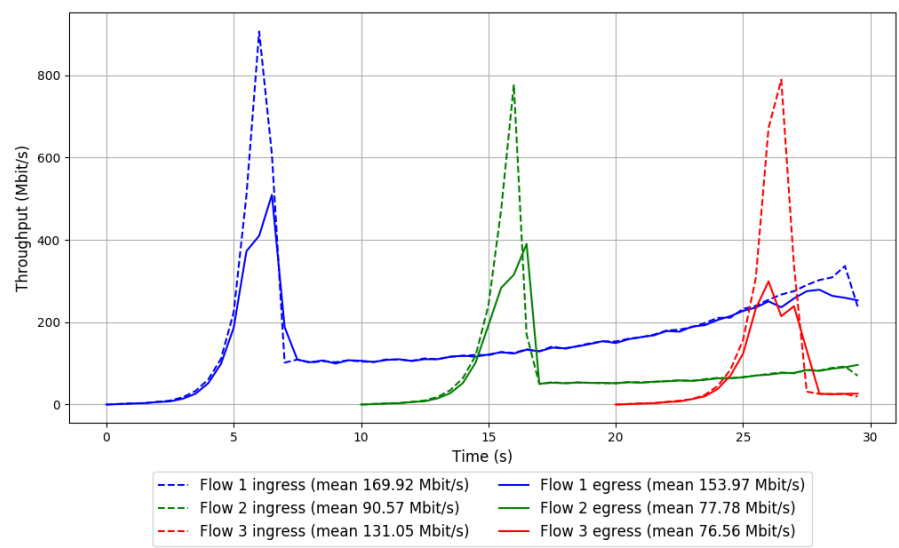
-- Flow 3:

Average throughput: 76.56 Mbit/s

95th percentile per-packet one-way delay: 482.191 ms

Loss rate: 41.65%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-01 05:40:38

End at: 2018-02-01 05:41:08

Below is generated by plot.py at 2018-02-01 09:39:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 488.91 Mbit/s

95th percentile per-packet one-way delay: 265.934 ms

Loss rate: 3.07%

-- Flow 1:

Average throughput: 266.11 Mbit/s

95th percentile per-packet one-way delay: 281.184 ms

Loss rate: 4.59%

-- Flow 2:

Average throughput: 257.46 Mbit/s

95th percentile per-packet one-way delay: 242.696 ms

Loss rate: 0.37%

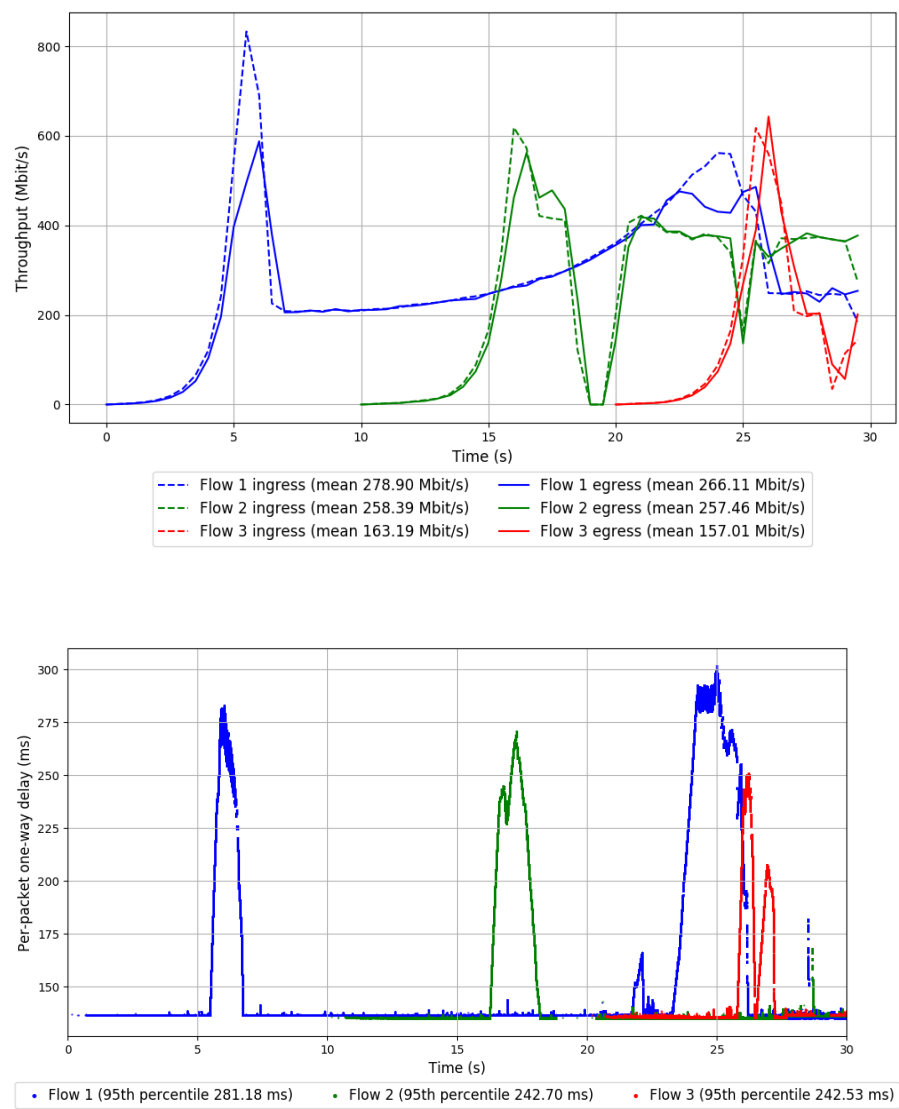
-- Flow 3:

Average throughput: 157.01 Mbit/s

95th percentile per-packet one-way delay: 242.532 ms

Loss rate: 3.79%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-01 06:00:10

End at: 2018-02-01 06:00:40

Below is generated by plot.py at 2018-02-01 09:42:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 517.39 Mbit/s

95th percentile per-packet one-way delay: 227.214 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 279.63 Mbit/s

95th percentile per-packet one-way delay: 218.718 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 302.33 Mbit/s

95th percentile per-packet one-way delay: 265.564 ms

Loss rate: 1.07%

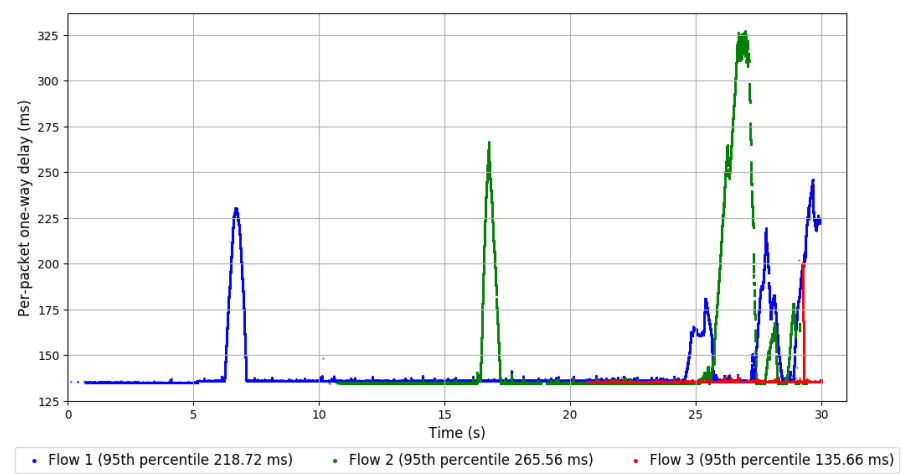
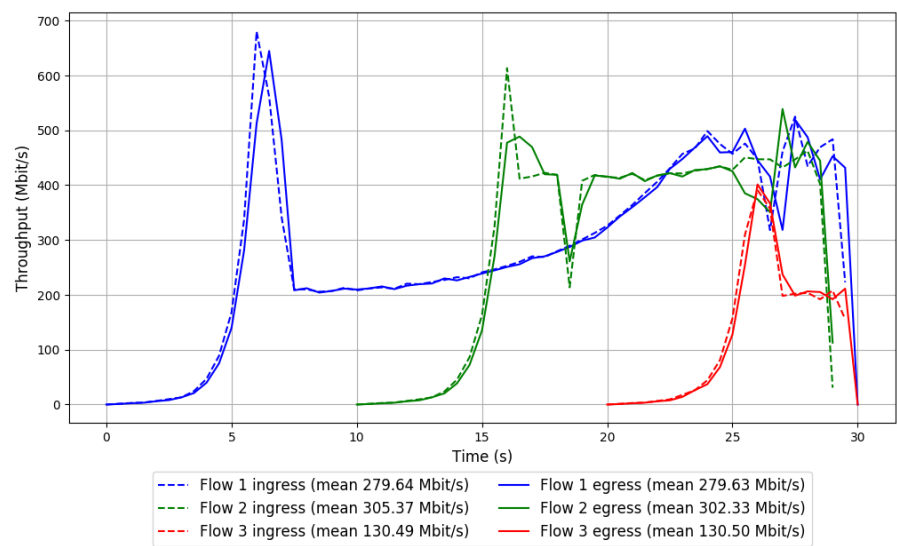
-- Flow 3:

Average throughput: 130.50 Mbit/s

95th percentile per-packet one-way delay: 135.655 ms

Loss rate: 0.00%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-01 06:19:21

End at: 2018-02-01 06:19:51

Below is generated by plot.py at 2018-02-01 09:42:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 444.91 Mbit/s

95th percentile per-packet one-way delay: 238.065 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 276.36 Mbit/s

95th percentile per-packet one-way delay: 171.357 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 173.07 Mbit/s

95th percentile per-packet one-way delay: 268.256 ms

Loss rate: 2.57%

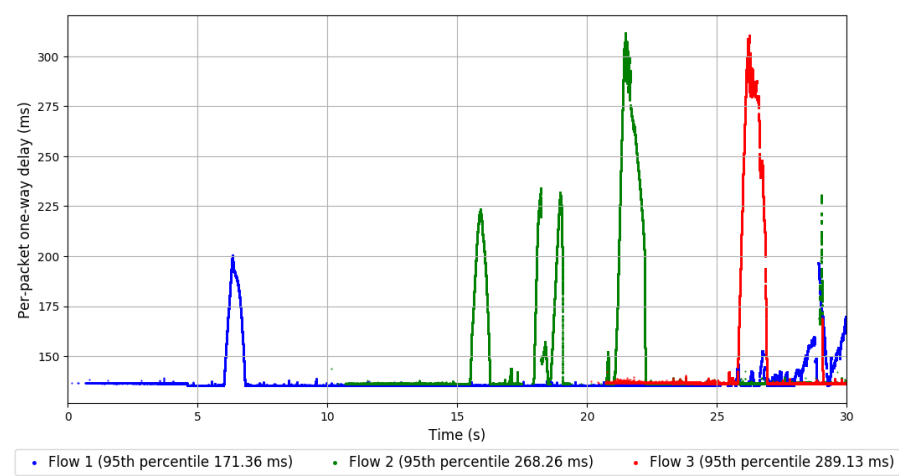
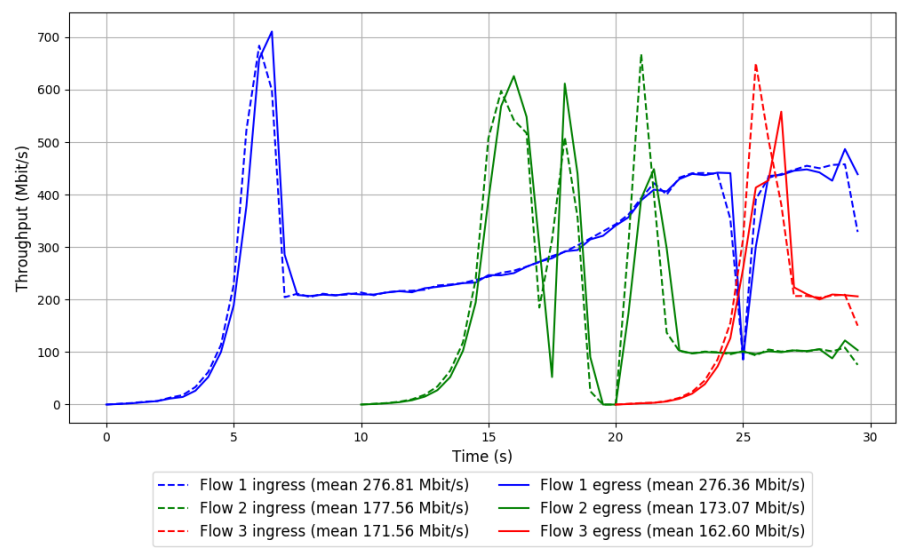
-- Flow 3:

Average throughput: 162.60 Mbit/s

95th percentile per-packet one-way delay: 289.134 ms

Loss rate: 5.23%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-01 06:38:44

End at: 2018-02-01 06:39:14

Below is generated by plot.py at 2018-02-01 09:43:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 514.69 Mbit/s

95th percentile per-packet one-way delay: 215.033 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 328.98 Mbit/s

95th percentile per-packet one-way delay: 225.857 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 212.27 Mbit/s

95th percentile per-packet one-way delay: 214.272 ms

Loss rate: 1.76%

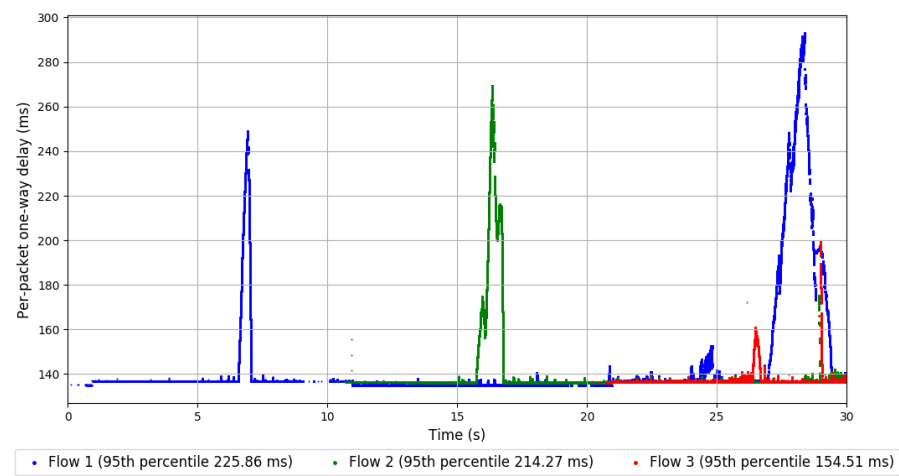
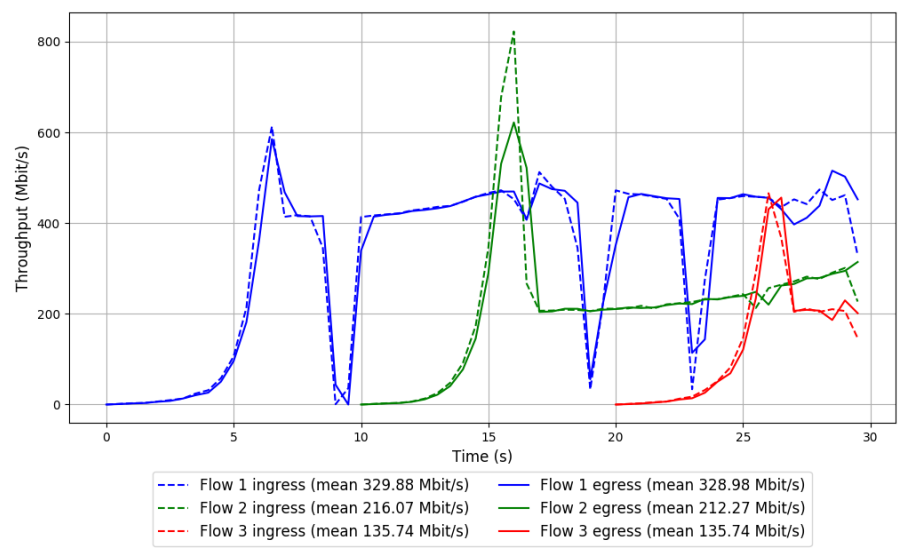
-- Flow 3:

Average throughput: 135.74 Mbit/s

95th percentile per-packet one-way delay: 154.511 ms

Loss rate: 0.00%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-01 06:57:37

End at: 2018-02-01 06:58:07

Below is generated by plot.py at 2018-02-01 09:44:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 528.94 Mbit/s

95th percentile per-packet one-way delay: 225.659 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 259.46 Mbit/s

95th percentile per-packet one-way delay: 286.998 ms

Loss rate: 2.08%

-- Flow 2:

Average throughput: 310.12 Mbit/s

95th percentile per-packet one-way delay: 147.081 ms

Loss rate: 0.00%

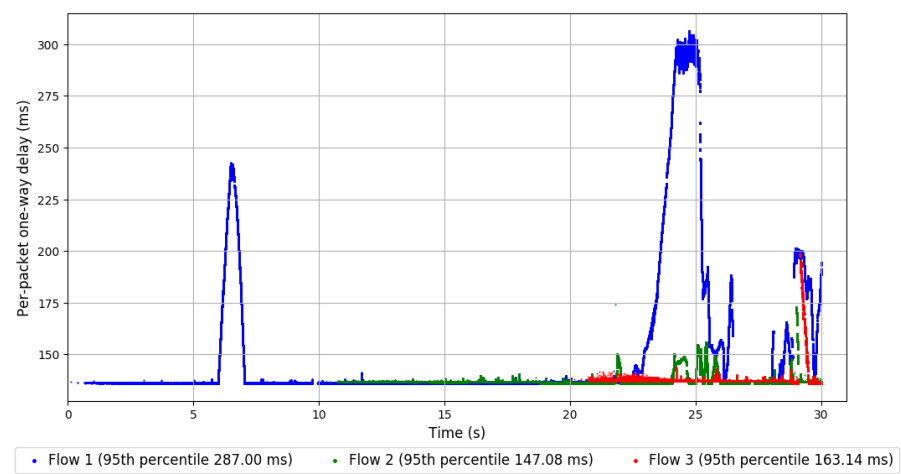
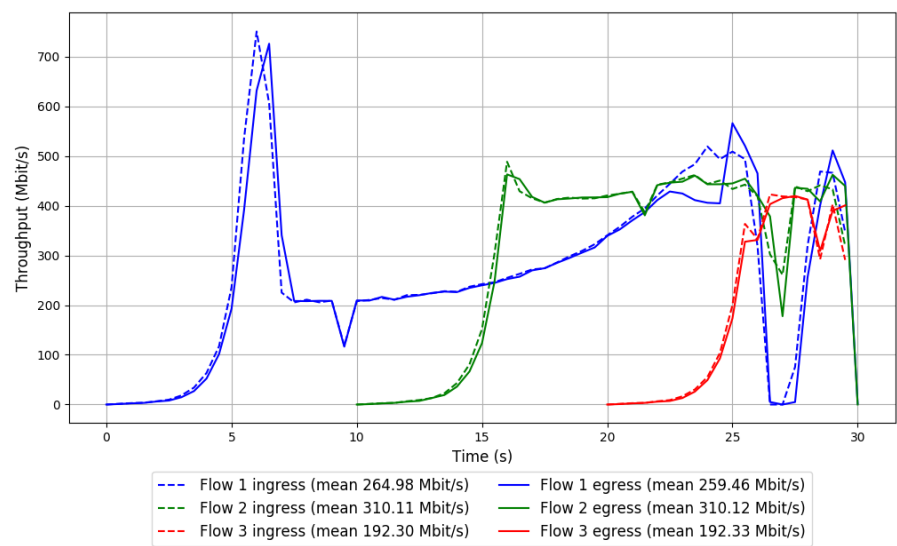
-- Flow 3:

Average throughput: 192.33 Mbit/s

95th percentile per-packet one-way delay: 163.142 ms

Loss rate: 0.00%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-01 07:16:46

End at: 2018-02-01 07:17:16

Below is generated by plot.py at 2018-02-01 09:45:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 555.69 Mbit/s

95th percentile per-packet one-way delay: 269.536 ms

Loss rate: 1.33%

-- Flow 1:

Average throughput: 308.90 Mbit/s

95th percentile per-packet one-way delay: 245.624 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 307.41 Mbit/s

95th percentile per-packet one-way delay: 291.978 ms

Loss rate: 2.37%

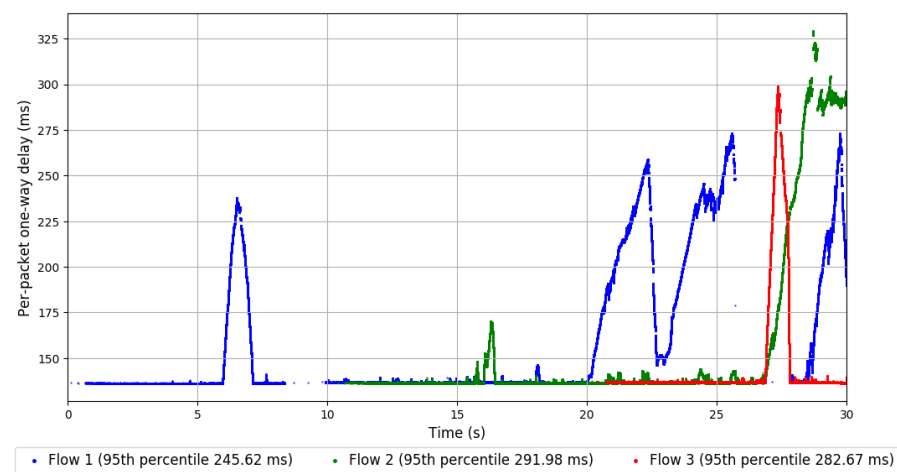
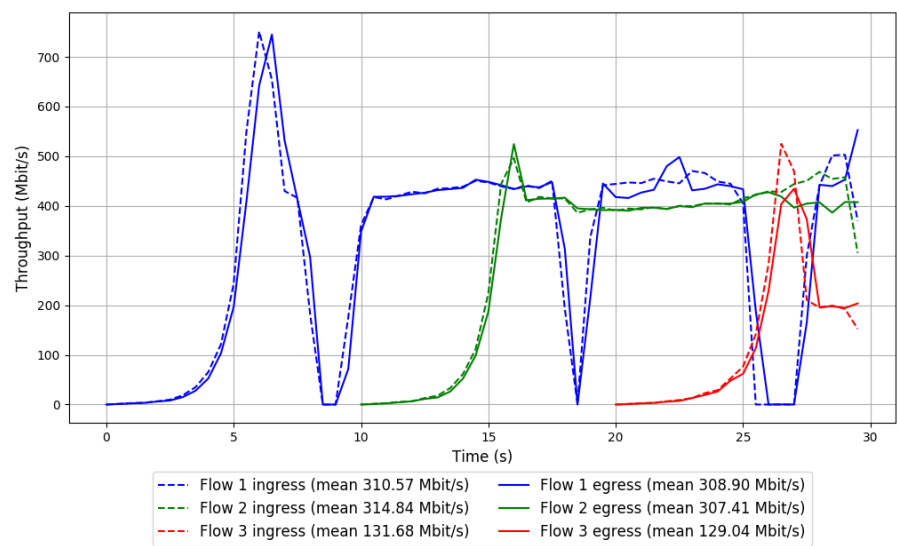
-- Flow 3:

Average throughput: 129.04 Mbit/s

95th percentile per-packet one-way delay: 282.671 ms

Loss rate: 2.01%

Run 10: Report of Vivace-loss — Data Link

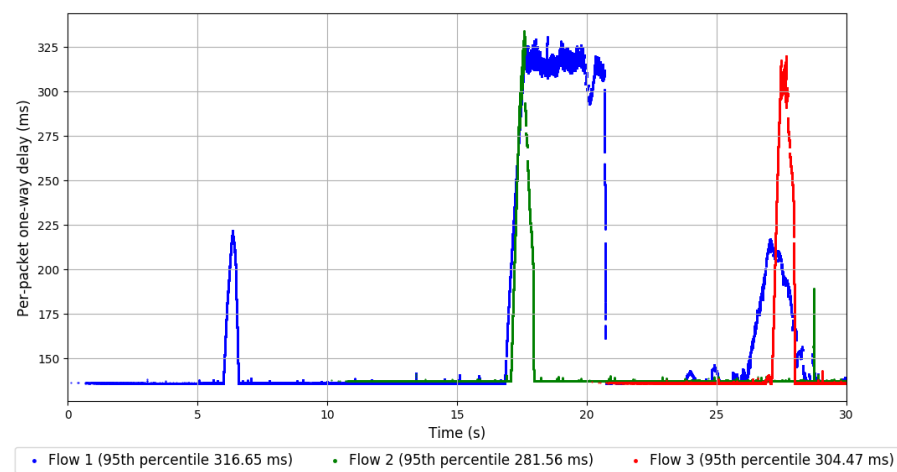
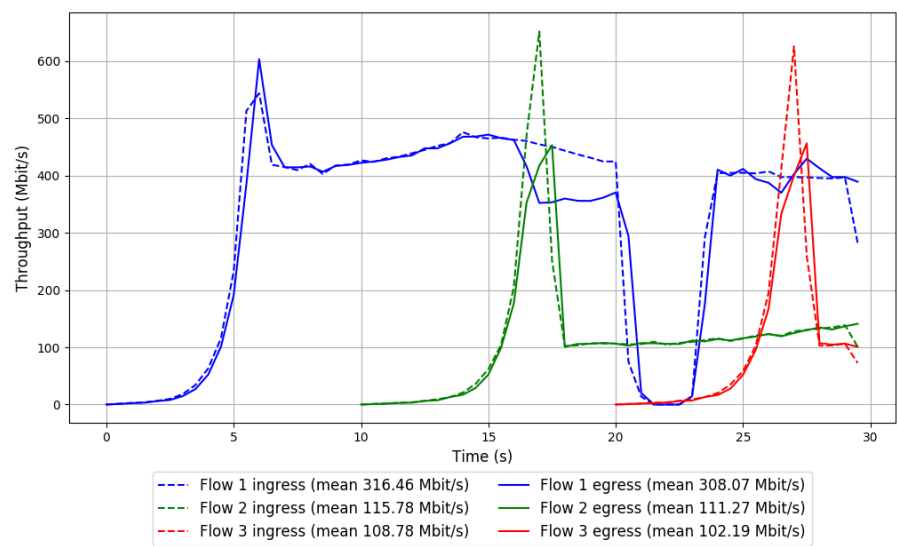


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-01 04:28:57
End at: 2018-02-01 04:29:27

# Below is generated by plot.py at 2018-02-01 09:45:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 415.50 Mbit/s
95th percentile per-packet one-way delay: 315.251 ms
Loss rate: 3.16%
-- Flow 1:
Average throughput: 308.07 Mbit/s
95th percentile per-packet one-way delay: 316.649 ms
Loss rate: 2.65%
-- Flow 2:
Average throughput: 111.27 Mbit/s
95th percentile per-packet one-way delay: 281.555 ms
Loss rate: 3.89%
-- Flow 3:
Average throughput: 102.19 Mbit/s
95th percentile per-packet one-way delay: 304.468 ms
Loss rate: 6.06%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-01 04:47:52

End at: 2018-02-01 04:48:22

Below is generated by plot.py at 2018-02-01 09:48:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 609.01 Mbit/s

95th percentile per-packet one-way delay: 144.222 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 340.24 Mbit/s

95th percentile per-packet one-way delay: 141.648 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 303.07 Mbit/s

95th percentile per-packet one-way delay: 142.260 ms

Loss rate: 0.02%

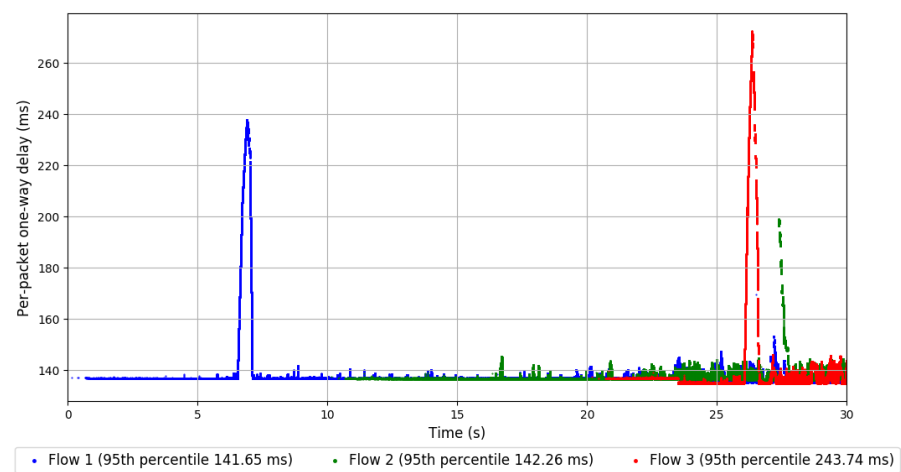
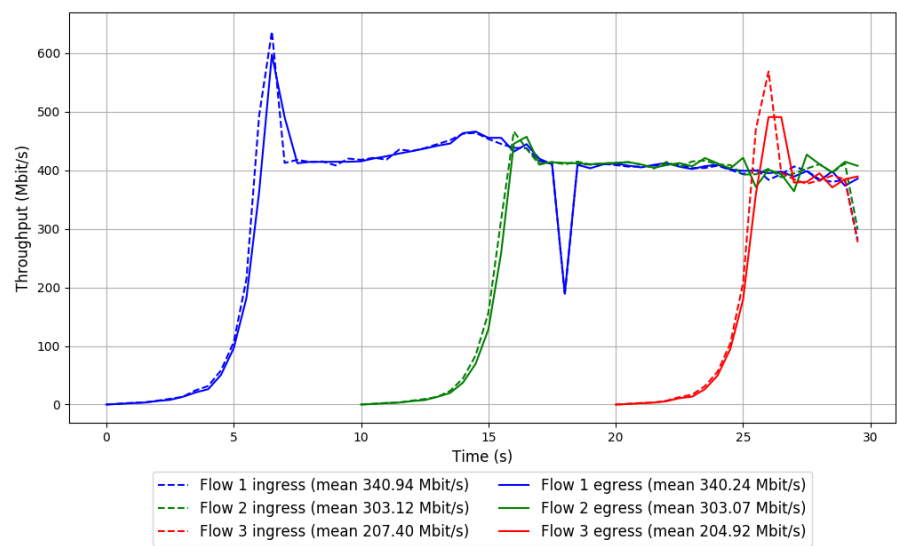
-- Flow 3:

Average throughput: 204.92 Mbit/s

95th percentile per-packet one-way delay: 243.737 ms

Loss rate: 1.20%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-01 05:07:15

End at: 2018-02-01 05:07:45

Below is generated by plot.py at 2018-02-01 09:48:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 336.95 Mbit/s

95th percentile per-packet one-way delay: 233.429 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 184.01 Mbit/s

95th percentile per-packet one-way delay: 209.475 ms

Loss rate: 1.94%

-- Flow 2:

Average throughput: 178.28 Mbit/s

95th percentile per-packet one-way delay: 207.077 ms

Loss rate: 0.02%

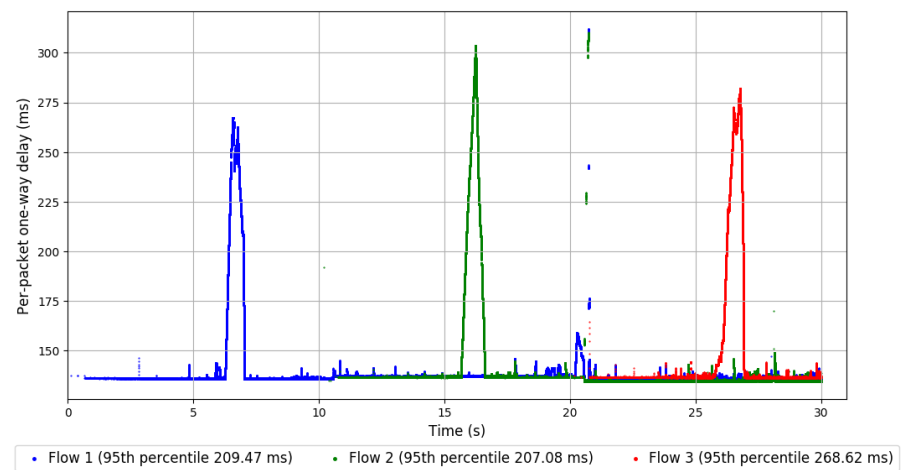
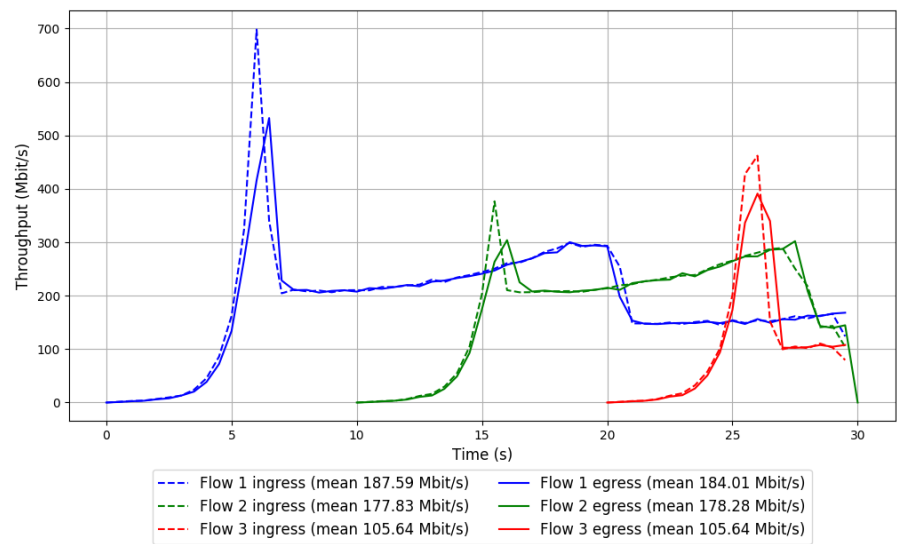
-- Flow 3:

Average throughput: 105.64 Mbit/s

95th percentile per-packet one-way delay: 268.615 ms

Loss rate: 0.01%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-01 05:25:20

End at: 2018-02-01 05:25:50

Below is generated by plot.py at 2018-02-01 09:48:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 385.91 Mbit/s

95th percentile per-packet one-way delay: 365.320 ms

Loss rate: 3.57%

-- Flow 1:

Average throughput: 237.23 Mbit/s

95th percentile per-packet one-way delay: 348.106 ms

Loss rate: 3.92%

-- Flow 2:

Average throughput: 166.33 Mbit/s

95th percentile per-packet one-way delay: 463.067 ms

Loss rate: 3.99%

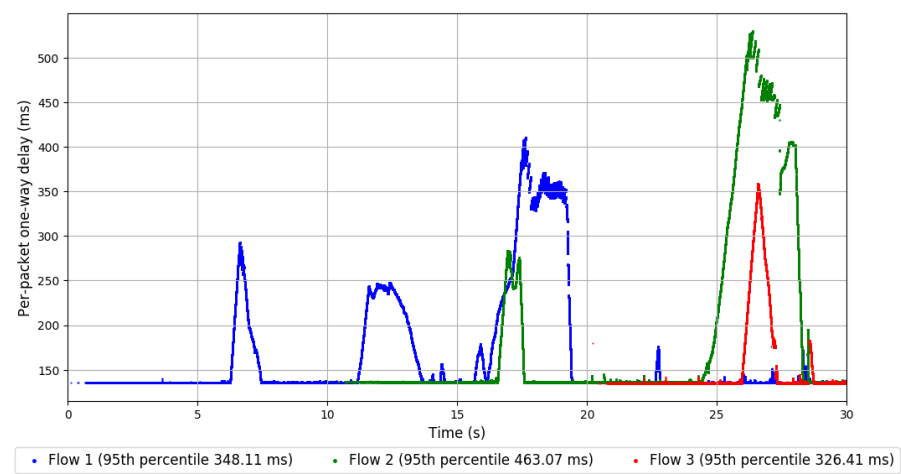
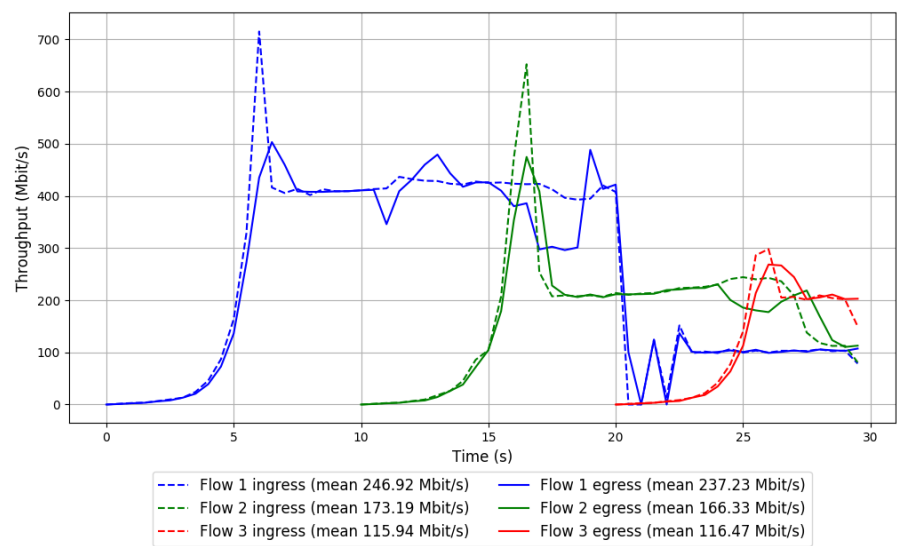
-- Flow 3:

Average throughput: 116.47 Mbit/s

95th percentile per-packet one-way delay: 326.409 ms

Loss rate: 0.00%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-01 05:44:42

End at: 2018-02-01 05:45:12

Below is generated by plot.py at 2018-02-01 09:50:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 542.79 Mbit/s

95th percentile per-packet one-way delay: 187.686 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 359.31 Mbit/s

95th percentile per-packet one-way delay: 173.745 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 195.43 Mbit/s

95th percentile per-packet one-way delay: 198.662 ms

Loss rate: 0.00%

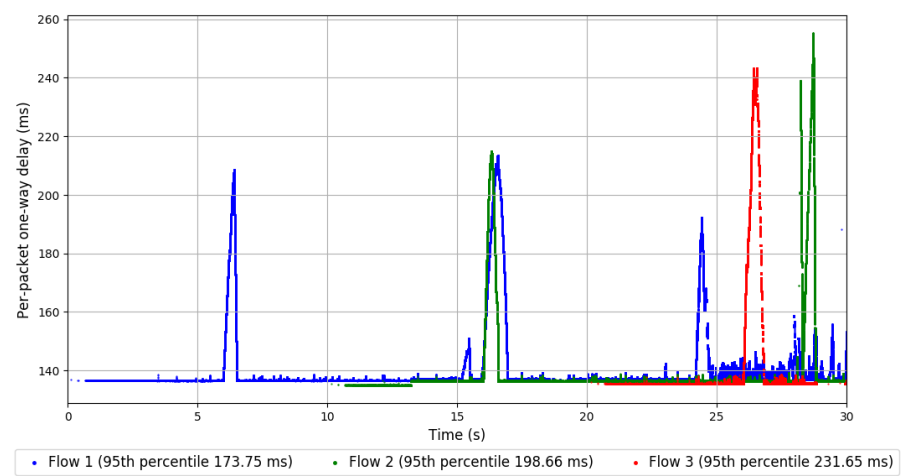
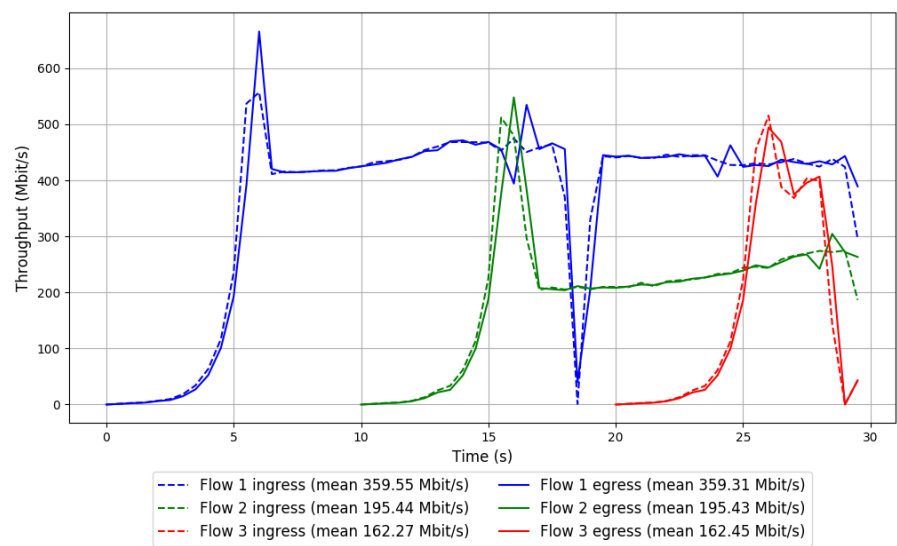
-- Flow 3:

Average throughput: 162.45 Mbit/s

95th percentile per-packet one-way delay: 231.653 ms

Loss rate: 0.00%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-01 06:03:58

End at: 2018-02-01 06:04:28

Below is generated by plot.py at 2018-02-01 09:51:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 617.04 Mbit/s

95th percentile per-packet one-way delay: 203.472 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 349.20 Mbit/s

95th percentile per-packet one-way delay: 143.847 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 309.49 Mbit/s

95th percentile per-packet one-way delay: 224.488 ms

Loss rate: 0.16%

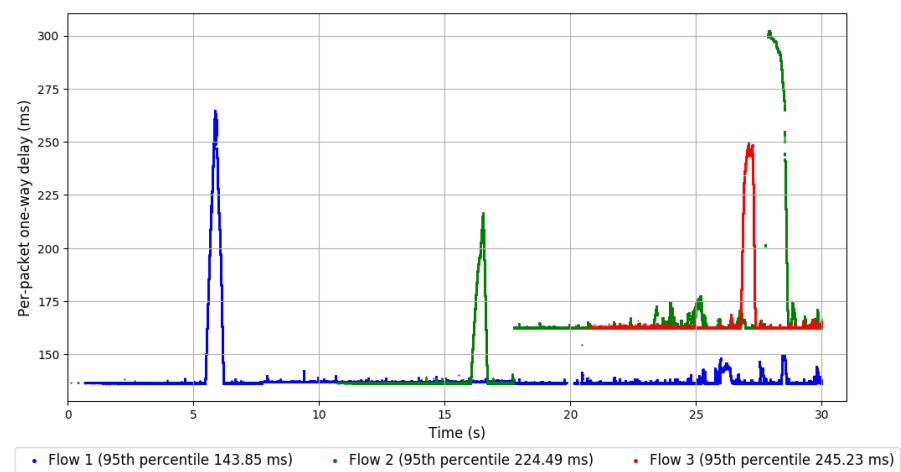
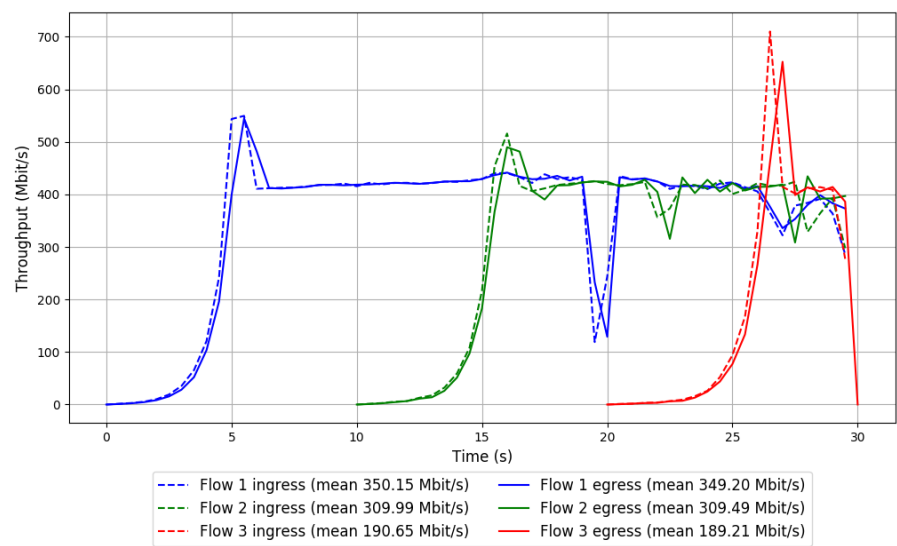
-- Flow 3:

Average throughput: 189.21 Mbit/s

95th percentile per-packet one-way delay: 245.232 ms

Loss rate: 1.00%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-01 06:22:59

End at: 2018-02-01 06:23:29

Below is generated by plot.py at 2018-02-01 09:51:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 598.73 Mbit/s

95th percentile per-packet one-way delay: 172.281 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 342.07 Mbit/s

95th percentile per-packet one-way delay: 143.090 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 314.99 Mbit/s

95th percentile per-packet one-way delay: 185.847 ms

Loss rate: 0.97%

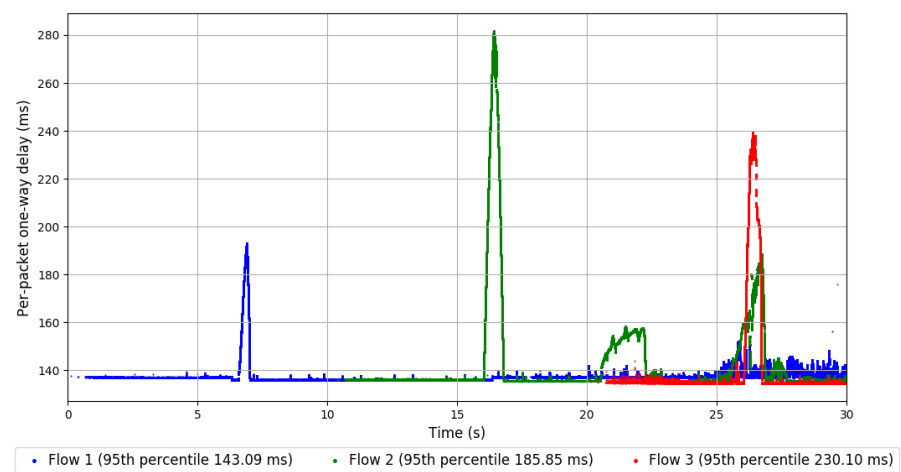
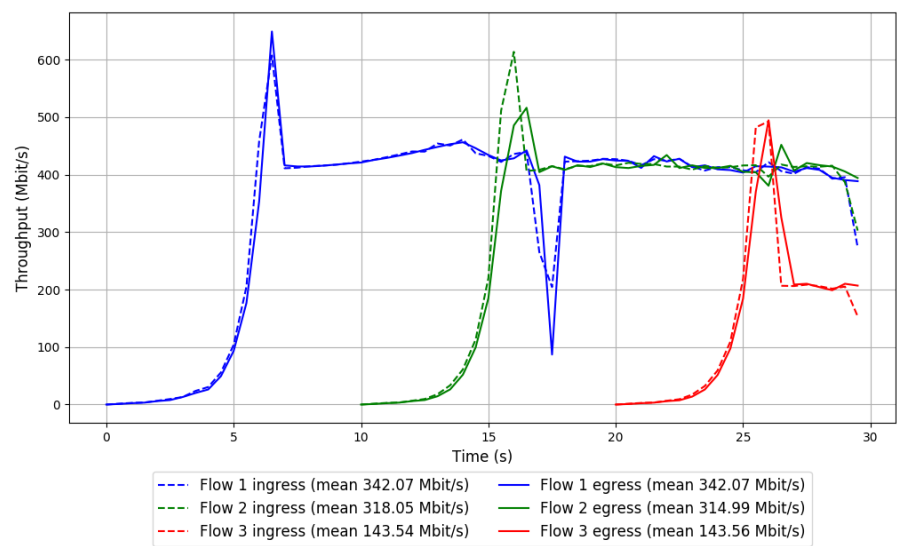
-- Flow 3:

Average throughput: 143.56 Mbit/s

95th percentile per-packet one-way delay: 230.104 ms

Loss rate: 0.01%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-01 06:42:29

End at: 2018-02-01 06:42:59

Below is generated by plot.py at 2018-02-01 09:51:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 463.87 Mbit/s

95th percentile per-packet one-way delay: 142.650 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 253.32 Mbit/s

95th percentile per-packet one-way delay: 141.513 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 275.58 Mbit/s

95th percentile per-packet one-way delay: 151.193 ms

Loss rate: 0.00%

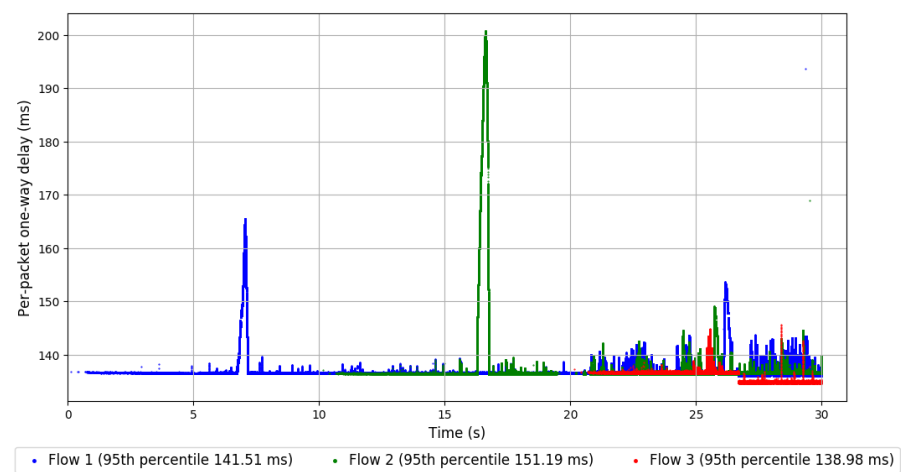
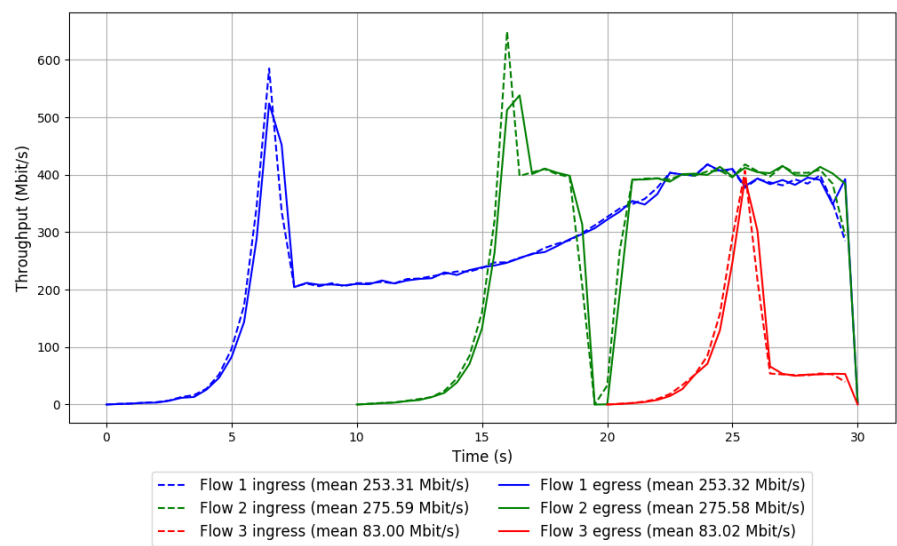
-- Flow 3:

Average throughput: 83.02 Mbit/s

95th percentile per-packet one-way delay: 138.984 ms

Loss rate: 0.00%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-01 07:01:33

End at: 2018-02-01 07:02:03

Below is generated by plot.py at 2018-02-01 09:51:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 506.91 Mbit/s

95th percentile per-packet one-way delay: 211.444 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 329.57 Mbit/s

95th percentile per-packet one-way delay: 208.886 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 177.33 Mbit/s

95th percentile per-packet one-way delay: 136.343 ms

Loss rate: 0.00%

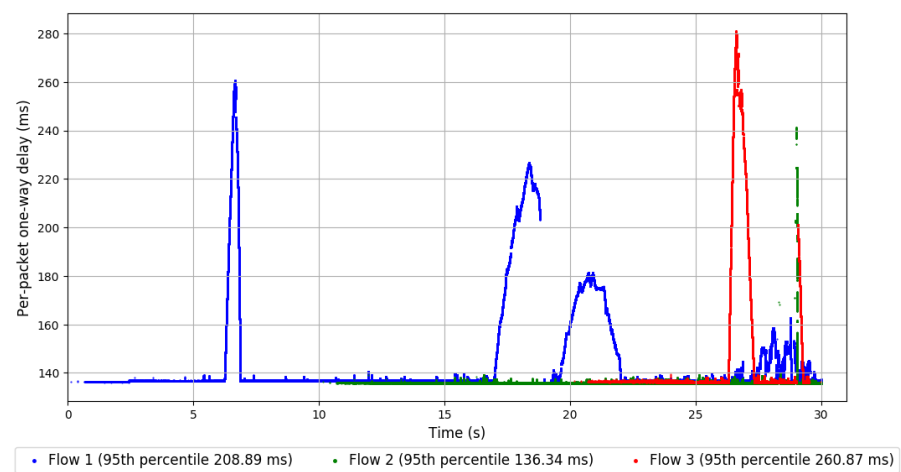
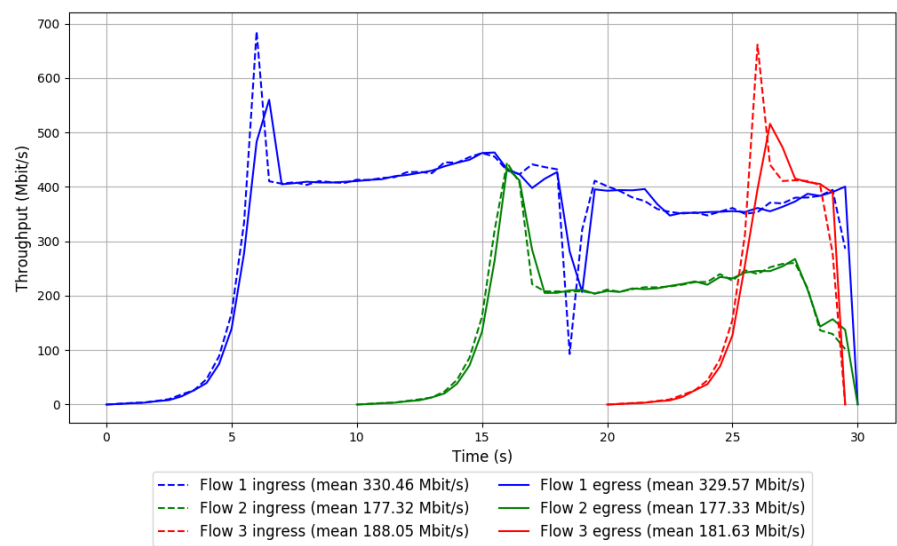
-- Flow 3:

Average throughput: 181.63 Mbit/s

95th percentile per-packet one-way delay: 260.867 ms

Loss rate: 3.42%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-02-01 07:20:27
End at: 2018-02-01 07:20:57

# Below is generated by plot.py at 2018-02-01 09:51:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 592.63 Mbit/s
95th percentile per-packet one-way delay: 205.488 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 350.10 Mbit/s
95th percentile per-packet one-way delay: 186.653 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 285.43 Mbit/s
95th percentile per-packet one-way delay: 230.962 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 165.27 Mbit/s
95th percentile per-packet one-way delay: 204.997 ms
Loss rate: 0.00%
```

Run 10: Report of Vivace-LTE — Data Link

